

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	1
FED ROAD DIST No. 1 ILLINOIS		CONTRACT No. 60135		

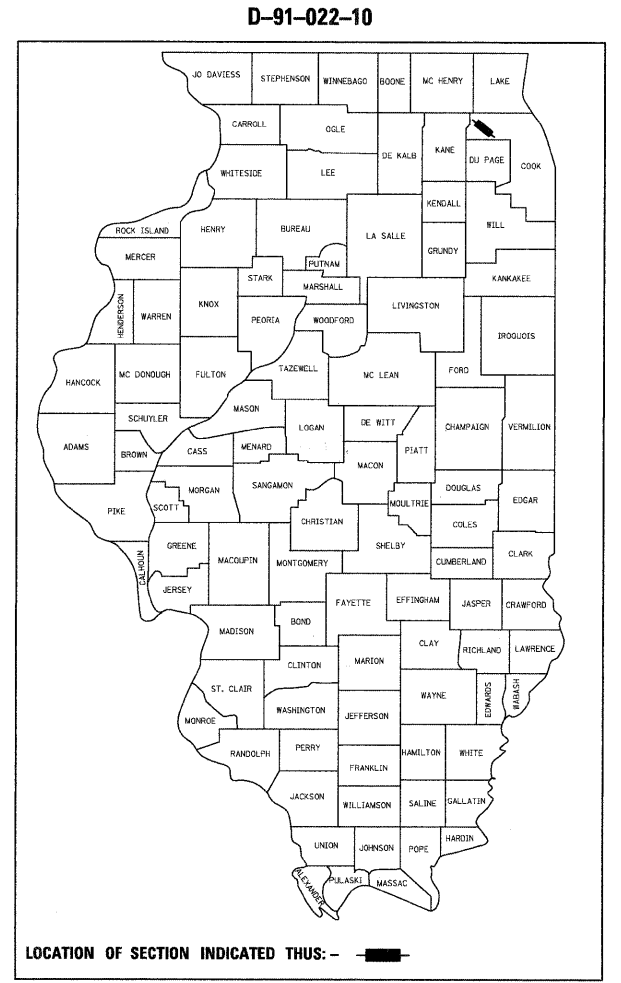
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

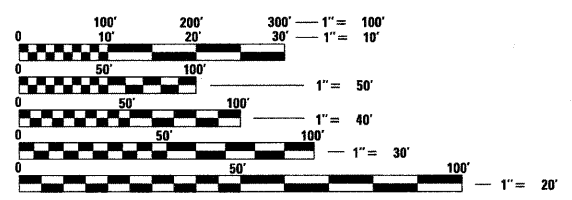
FAP 339 - IL ROUTE 62 (ALGONQUIN ROAD)
SECTION: 116 Y-1-R-1
PROJECT NO: ACNHF-0339 (029)
EASTINGS WAY TO PENNY ROAD
ADDITIONAL LANES, RETAINING WALLS,
RECONSTRUCTION & VERTICAL REALIGNMENT
COOK COUNTY
C-91-022-10

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA:
EXISTING ADT IL 62 (ALGONQUIN ROAD) 25000 (2003)
POSTED SPEED = 45 MPH

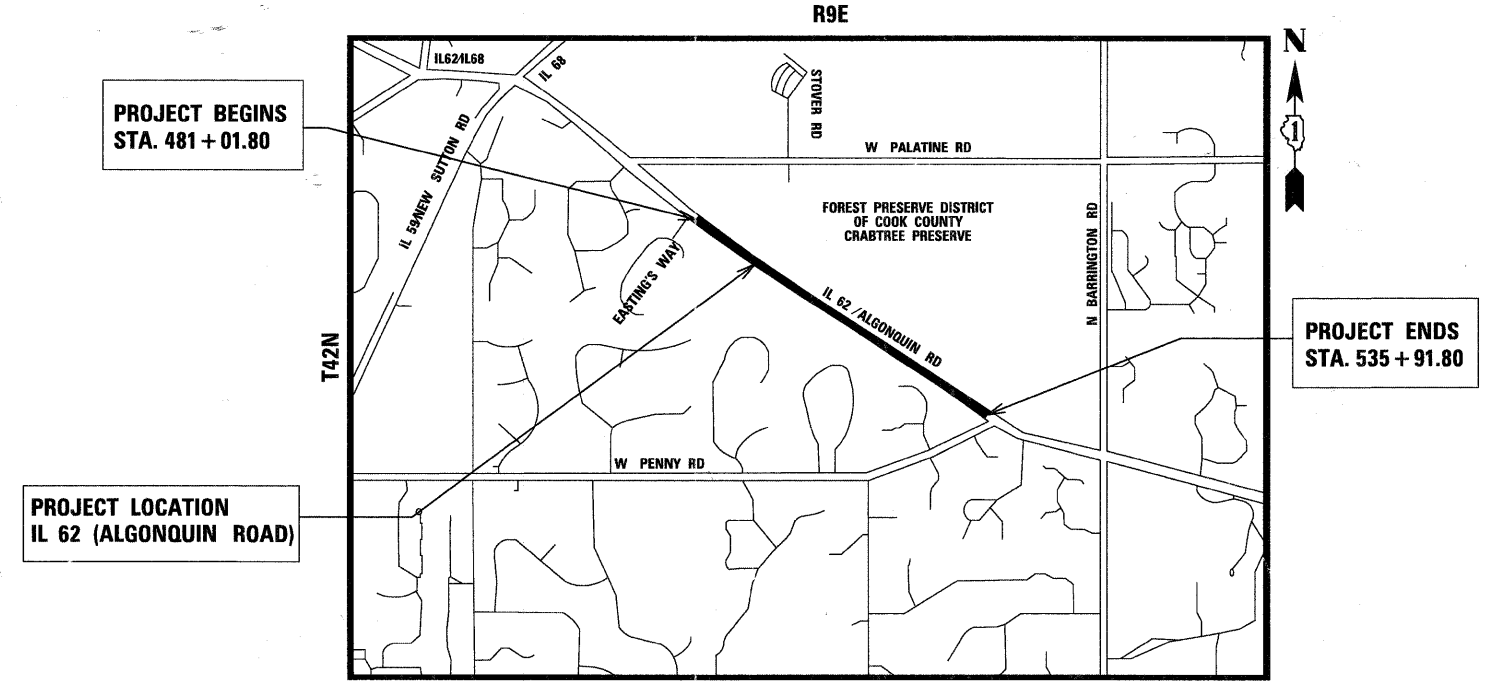


PROJECT IS LOCATED IN THE VILLAGE OF SOUTH BARRINGTON



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 BEGINS STA. 481 + 01.80

PROJECT ENDS STA. 535 + 91.80

PROJECT LOCATION IL 62 (ALGONQUIN ROAD)

SECTIONS 22 & 23
BARRINGTON TOWNSHIP
LOCATION MAP
NOT TO SCALE

GROSS AND NET LENGTH OF PROJECT = 5490.00 FEET = 1.04 MILES

PROJECT MANAGER KIM HARVEY (847) 705-4055
PROJECT ENGINEER SUNG BYUN (847) 705-4288
CONTRACT NO. 60135

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JUNE 23 2011

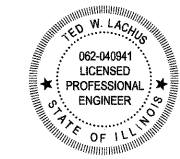
Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 14 2011
Scott E. Stitt, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

October 14 2011
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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Primera
100 S. WACKER DRIVE SUITE 700 CHICAGO IL 60606.
P:312-606-0910 F:312-606-0415



Ted W. Lachus
TED W. LACHUS, P.E.
EXPIRES 11-30-2011
DATE 6-24-2011

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GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS, WATER, SEWER AND CABLE TELEVISION FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED.)
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ABOVE AND BELOW GROUND UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY, PUBLIC OR PRIVATE, THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
5. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
6. THE ENGINEER SHALL CONTACT WALTER CZARNY, THE AREA TRAFFIC FIELD ENGINEER, AT (847) 715-8419 AT LEAST TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
8. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
9. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED THEIR LOCATION.
10. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED.
11. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGE OF SOUTH BARRINGTON.
12. ALL UTILITY COMPANIES, SCHOOL DISTRICTS, AND LOCAL POLICE AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
13. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION.
14. ALL RADII ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
15. 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 THE CONTRACTOR'S EXPENSE.
16. CONCRETE TRUCK WASHOUT SHALL NOT BE DISCHARGED INTO THE SURROUNDING AREAS. THE WASHOUT SHALL BE COLLECTED ONSITE AND TREATED OR DISPOSED OF AT AN APPROVED LOCATION (I.E. THE BATCH PLANT)
17. CONCRETE TRUCK WASHOUT LOCATIONS SHALL BE IDENTIFIED BY THE CONTRACTOR AT THE PRECONSTRUCTION MEETING FOR THE APPROVAL OF THE OWNER AND THE ENGINEER.
18. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS 404 PERMIT. THE PERMIT ISSUED TO THE DEPARTMENT DOES NOT COVER IN STREAM WORK BY THE CONTRACTOR; THEREFORE AFTER AWARD, THE CONTRACTOR WILL NEED TO COORDINATE AND HAVE HIS WORK PLAN APPROVED BY THE CORPS. GUIDELINES ON ACCEPTABLE IN STREAM WORK TECHNIQUES CAN BE FOUND ON THE CORPS WEBSITE [HTTP://WWW.LRC.USACE.ARMY.MIL/](http://www.lrc.usace.army.mil/)
19. POROUS GRANULAR EMBANKMENT, SUBGRADE AND GEOTECHNICAL FABRIC FOR GROUND STABILIZATION HAS BEEN PROVIDED TO REPLACE SOILS WHICH TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. IF UNSUITABLE SOILS ARE ENCOUNTERED THE SOILS SHALL BE REMOVED AND REPLACED WITH PGES. THESE LIMITS MAY BE ALTERED BY THE ENGINEER IF FIELD CONDITIONS SO WARRANT. REMOVAL OF THESE UNSUITABLE SOILS SHALL BE PAID FOR AS "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL."
20. THE STATION/OFFSET/ELEVATIONS NOTED FOR THE DRAINAGE STRUCTURES LOCATED WITHIN THE PAVEMENT LIMITS ARE DIMENSIONED TO THE EDGE OF PAVEMENT AND THE STATION/OFFSET/ELEVATIONS NOTED FOR ALL DRAINAGE STRUCTURES LOCATED OUTSIDE THE PAVEMENT ARE DIMENSIONED TO THE CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
21. WHENEVER DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT.
22. THE CONTRACTOR SHALL DETERMINE WHEN FLAT SLAB TOPS ARE REQUIRED ON ANY CATCH BASINS OR MANHOLES. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THE USE OF FLAT SLAB TOPS.
23. ANY TEMPORARY DAMMING OR PUMPING REQUIRED FOR THE EXCAVATIONS FOR THE STORM SEWER OR CULVERT CONNECTIONS SHALL BE INCLUDED IN THE COST OF THE STORM SEWER OR CULVERT BEING CONSTRUCTED.
24. PAY ITEMS FOR "MANHOLE" AND "REMOVE MANHOLE" ARE PROVIDED FOR CONSTRUCTION STAGING OF CULVERT REMOVAL AND REPLACEMENT. THE INTENT IS TO PROVIDE A TEMPORARY STRUCTURE TO PUMP FROM UNTIL TEMPORARY AND PERMANENT SHEET PILE WALLS ARE CONSTRUCTED. REFER TO MOT GENERAL NOTES FOR SUGGESTED CONSTRUCTION SEQUENCE. TWO (2) MANHOLE AND TWO (2) MANHOLE REMOVAL QUANTITIES HAVE BEEN ADDED TO THE PLANS TO ADDRESS THIS ISSUE.

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DATE	JUNE 30, 2011	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
INDEX OF SHEETS, STATE STANDARDS,
GENERAL NOTES AND COMMITMENTS**

SCALE: N.T.S. SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	2
CONTRACT NO. 60135			ILLINOIS FED. AID PROJECT	

STATE STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-05 TEMPORARY EROSION CONTROL SYSTEM
- 406201-01 MAILBOX TURNOUT
- 420001-07 PAVEMENT JOINTS
- 515001-03 NAME PLATE FOR BRIDGES
- 542101-02 REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS 15" THRU 36" DIA. AT RIGHT ANGLES WITH ROADWAY
- 542301-02 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 542311-02 GRATING FOR CONCRETE FLARED END SECTION (FOR 24" THRU 54" PIPE)
- 601101-01 CONCRETE HEADWALL FOR PIPE DRAINS
- 602001-02 CATCH BASIN TYPE A
- 602301-03 INLET TYPE A
- 602401-03 MANHOLE TYPE A
- 602601-02 FRAME AND LIDS TYPE 1
- 602701-02 MANHOLE STEPS
- 604001-02 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 604091-02 FRAME AND GRATE TYPE 24
- 606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 606301-04 PC CONCRETE ISLANDS AND MEDIANS
- 630001-09 STEEL PLATE BEAM GUARDRAIL
- 631011-07 TRAFFIC BARRIER TERMINAL, TYPE 2
- 701006-03 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
- 701101-02 OFF-RD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
- 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
- 701426-04 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS > 45 MPH
- 701431-06 LANE CLOSURE, MULTILANE, UNDIVIDED WITH CROSSOVER, FOR SPEEDS > 45 MPH TO 55 MPH
- 701602-05 URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
- 701701-07 URBAN LANE CLOSURE, MULTILANE INTERSECTIONS
- 701901-01 TRAFFIC CONTROL DEVICES
- 704001-06 TEMPORARY CONCRETE BARRIER
- 780001-02 TYPICAL PAVEMENT MARKINGS
- 814001-02 HANDHOLES
- 886001-01 DETECTOR LOOP INSTALLATIONS

COMMITMENTS

NONE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
INDEX OF SHEETS, STATE STANDARDS,
GENERAL NOTES AND COMMITMENTS

SCALE: N.T.S. SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	3
			CONTRACT NO. 60135	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

80% FED. / 20% STATE

CONSTRUCTION TYPE CODE

CODED PAY ITEM NUMBER	PAY ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
				ROADWAY 0003	MINOR STRUCTURES 0040	LANDSCAPING 0031
* 20101100	TREE TRUNK PROTECTION	EACH	13	13		
* 20101200	TREE ROOT PRUNING	EACH	50			50
* 20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	20			20
* 20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	20			20
20200100	EARTH EXCAVATION	CU YD	15720	15720		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	30897	30897		
20400800	FURNISHED EXCAVATION	CU YD	20180	20180		
20800150	TRENCH BACKFILL	CU YD	679	679		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	10776	10776		
* 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	31466			31466
* 21101805	COMPOST FURNISH AND PLACE, 2"	SQ YD	16444			16444
* 25000210	SEEDING, CLASS 2A	ACRE	3.25			3.25
* 25000310	SEEDING, CLASS 4	ACRE	2.75			2.75
* 25000314	SEEDING, CLASS 4B	ACRE	0.75			0.75
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	585			585
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	585			585
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	585			585
* 25100115	MULCH, METHOD 2	ACRE	7.00			7.00
* 25100630	EROSION CONTROL BLANKET	SQ YD	31466	31466		
* 25200110	SODDING, SALT TOLERANT	SQ YD	490			490
* 25200200	SUPPLEMENTAL WATERING	UNIT	10			10
* 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	650	650		
* 28000305	TEMPORARY DITCH CHECKS	FOOT	868	868		
* 28000400	PERIMETER EROSION BARRIER	FOOT	9757	9757		
28000510	INLET FILTERS	EACH	62	62		
28100107	STONE RIPRAP, CLASS A4	SQ YD	124	119	5	

* INDICATES SPECIALTY ITEMS

80% FED. / 20% STATE

CONSTRUCTION TYPE CODE

CODED PAY ITEM NUMBER	PAY ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
				ROADWAY 0003	MINOR STRUCTURES 0040	LANDSCAPING 0031
28200200	FILTER FABRIC	SQ YD	119	119		
31101400	SUB-BASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	651	651		
31200502	STABILIZED SUBBASE - HOT-MIX ASPHALT, 4 1/2"	SQ YD	40411	40411		
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	269	269		
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	115	115		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	31	31		
40803310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	43	43		
42000411	PORTLAND CEMENT CONCRETE PAVEMENT 9 1/2" (JOINTED)	SQ YD	36647	36647		
42001300	PROTECTIVE COAT	SQ YD	43673	43673		
44000100	PAVEMENT REMOVAL	SQ YD	23869	23869		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	339	339		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	515	515		
44003100	MEDIAN REMOVAL	SQ FT	8995	8995		
48101620	AGGREGATE SHOULDERS, TYPE B 10"	SQ YD	1074	1074		
50104400	CONCRETE HEADWALL REMOVAL	EACH	8	8		
50105220	PIPE CULVERT REMOVAL	FOOT	556	556		
50300225	CONCRETE STRUCTURES	CU YD	326.8			326.8
50500505	STUD SHEAR CONNECTORS	EACH	3182			3182
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	30620			30620
51500100	NAME PLATES	EACH	6			6
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	4			4
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	7			7
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1			1
54215424	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 24"	EACH	6			6
54213666	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 21"	EACH	1			1
54215436	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 36"	EACH	1			1
542A0241	PIPE CULVERTS, CLASS A, TYPE 1 36"	FOOT	93			93
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	96			96
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	46			46
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	3210			3210

* INDICATES SPECIALTY ITEMS

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
 SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 339	SECTION 116 Y-1-R-1	COUNTY COOK	TOTAL SHEETS 122	Rev. SHEET NO. 4
CONTRACT NO. 60135			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

80% FED. / 20% STATE
CONSTRUCTION TYPE CODE

CODED PAY ITEM NUMBER	PAY ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
				ROADWAY 0003	MINOR STRUCTURES 0040	LANDSCAPING 0031
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	802		802	
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	627		627	
550A0110	STORM SEWERS, CLASS A, TYPE 1 21"	FOOT	336		336	
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	71		71	
550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	86		86	
550A0380	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	8		8	
550A0450	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	85		85	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	542		542	
60107600	PIPE UNDERDRAINS 4"	FOOT	840		840	
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	29		29	
60205040	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	3		3	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	21		21	
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	7		7	
60223600	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1		1	
60224400	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1		1	
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1		1	
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	34		34	
60250200	CATCH BASINS TO BE ADJUSTED	EACH	12		12	
60500040	REMOVING MANHOLES	EACH	2		2	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	10864	10864		
60608300	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12	FOOT	569	569		
60608521	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.24	FOOT	187	187		
60618210	HOT-MIX ASPHALT MEDIAN SURFACE, 4 INCH	SQ FT	3093	3093		
60618740	CONCRETE MEDIAN, TYPE M-2.12	SQ FT	820	820		
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	3025.0	3025.0		
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	6	6		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	6	6		
63200310	GUARDRAIL REMOVAL	FOOT	302	302		

* INDICATES SPECIALTY ITEMS

80% FED. / 20% STATE
CONSTRUCTION TYPE CODE

CODED PAY ITEM NUMBER	PAY ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
				ROADWAY 0003	MINOR STRUCTURES 0040	LANDSCAPING 0031
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	18	18		
67100100	MOBILIZATION	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	171	171		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	16	16		
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	16075	16075		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	3500.0	3500.0		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1612.5	1612.5		
* 78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	255	255		
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	24606	24606		
* 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	995	995		
* 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	826	826		
* 78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	60	60		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	652	652		
78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	372	372		
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1006	1006		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	285	285		
* 81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	241	241		
* 81400100	HANDHOLE	EACH	1	1		
* 81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	241	241		
* 86200120	UNINTERRUPTIBLE POWER SUPPLY	EACH	1	1		
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	432	432		
* 87900200	DRILL EXISTING HANDHOLE	EACH	1	1		
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3	3		
* 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3	3		
* 88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1	1		
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1	1		

* INDICATES SPECIALTY ITEMS

PLAN NO. _____
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 DATE JUNE 30, 2011

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
 SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 339	SECTION 116 Y-1-R-1	COUNTY COOK	TOTAL SHEETS 122	SHEET NO. 5
CONTRACT NO. 60135			ILLINOIS FED. AID PROJECT	

Rev.

SUMMARY OF QUANTITIES

80% FED./20% STATE

CONSTRUCTION TYPE CODE

CODED PAY ITEM NUMBER	PAY ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
				ROADWAY 0003	MINOR STRUCTURES 0040	LANDSCAPING G 0031
* 88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1	1		
* 88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	4	4		
* 88600700	PREFORMED DETECTOR LOOP	FOOT	76	76		
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1		
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	185	185		
* 89502380	REMOVE EXISTING HANDHOLE	EACH	1	1		
* A2002520	TREE, CARPINUS CAROLINIANA (AMERICAN HORNBEAM), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	3		3	
* A2002566	TREE, CARPINUS CAROLINIANA (AMERICAN HORNBEAM), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	5		5	
* A2005020	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	4		4	
* A2005556	TREE, NYSSA SYLVATICA (BLACK TUPELO), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	3		3	
* A2005670	TREE, OSTRYA VIRGINIANA (AMERICAN HOPHORNBEAM), 8' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	3		3	
* A2006516	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	7		7	
* A2006568	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 7' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	3		3	
* A2006716	TREE, QUERCUS MACROCARPA (BUR OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	3		3	
* A2007620	TREE, TAXODIUM DISTICHUM (COMMON BALD CYPRESS), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	5		5	
* B2000766	TREE, AMELANCHIER X GRANDIFLORA AUTUMN BRILLIANCE (AUTUMN BRILLIANCE SERVICE BERRY), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	7		7	
* B2001464	TREE, CORNUS MAS (CORNELIAN CHERRY DOG WOOD), 5' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	5		5	
* B2002216	TREE, CRATAEGUS VIRDIS WINTER KING (WINTER KING GREEN HAWTHORN), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	5		5	
* B2002364	TREE, HALESIA TETRAPTERA (CAROLINA SILVERBELL), 5' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	5		5	
* C2003248	SHRUB, HAMAMELIS VERNALIS (VERNAL WITCH HAZEL), 4' HEIGHT, BALLED AND BURLAPPED	EACH	19		19	
* C2003348	SHRUB, HAMAMELIS VIRGINIANA (COMMON WITCHHAZEL), 4' HEIGHT, BALLED AND BURLAPPED	EACH	5		5	
* C2C09636	SHRUB, SAMBUCUS CANADENSIS (AMERICAN ELDER), 3' HEIGHT, CONTAINER	EACH	14		14	
* D2002184	EVERGREEN, PICEA PUNGENS (COLORADO SPRUCE), 7' HEIGHT, BALLED AND BURLAPPED	EACH	15		15	
* D2002472	EVERGREEN, PINUS FLEXILIS VANDERWOLF'S PYRAMID (VANDERWOLF'S PYRAMID LIMBER PINE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	6		6	
* D2002484	EVERGREEN, PINUS FLEXILIS VANDERWOLF'S PYRAMID (VANDERWOLF'S PYRAMID LIMBER PINE), 7' HEIGHT, BALLED AND BURLAPPED	EACH	6		6	
* D2002772	EVERGREEN, PINUS NIGRA (AUSTRIAN PINE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	6		6	

* INDICATES SPECIALTY ITEMS

80% FED./20% STATE

CONSTRUCTION TYPE CODE

CODED PAY ITEM NUMBER	PAY ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
				ROADWAY 0003	MINOR STRUCTURES 0040	LANDSCAPING G 0031
* D2002784	EVERGREEN, PINUS NIGRA (AUSTRIAN PINE), 7' HEIGHT, BALLED AND BURLAPPED	EACH	6			6
X0301852	DEWATERING STRUCTURE NO. 1	EACH	1		1	
X0301853	DEWATERING STRUCTURE NO. 2	EACH	1		1	
* X0322453	WEED CONTROL, PRE-EMERGENT	POUND	300			300
X0426200	DEWATERING	L SUM	1	1		
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	572		572	
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	6	6		
X5121800	PERMANENT STEEL SHEET PILING	SQ FT	65504		65504	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
X7030025	WET REFLECTIVE TEMPORARY TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	109	109		
X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH	FOOT	47821	47821		
X7030040	WET REFLECTIVE TEMPORARY TAPE TYPE III, 6 INCH	FOOT	966	966		
X7030055	WET REFLECTIVE TEMPORARY TAPE TYPE III, 24 INCH	FOOT	137	137		
X5400100	BOX CULVERT REMOVAL	FOOT	51	51		
Z0030352	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	6	6		
Z0030251	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	6	6		
Z0001070	AGGREGATE SUBGRADE (SPECIAL)	SQ YD	40411	40411		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Z0022800	FENCE REMOVAL	FOOT	849	849		
Z0026407	TEMPORARY SHEET PILING	SQ FT	12,895	12,895		
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	124	124		
* Z0033060	PREFORMED DETECTOR LOOP	FOOT	76	76		
Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	9561	9561		
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	1919		1919	
Z0055905	TEMPORARY CONSTRUCTION FENCE	FOOT	2817	2817		
Z0062456	TEMPORARY PAVEMENT	SQ YD	8136	8136		
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1		

* INDICATES SPECIALTY ITEMS

PLAN	DATE	BY
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NO. 3		

PLAN	DATE	BY
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DATE	JUNE 30, 2011	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	6
CONTRACT NO. 60135			ILLINOIS FED. AID PROJECT	

Rev.

PLAN	SURVEYED	DATE
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	RT OF WAY CHECKED	
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PLAN	SURVEYED	DATE
	PLOTTED	BY
	REVISIONS	
	RT OF WAY CHECKED	
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ROADWAY REMOVALS SCHEDULE				
LOCATION	OFFSET	PAVEMENT REMOVAL (SQ YD)	MEDIAN REMOVAL (SQ FT)	CURB&GUTTER REMOVAL (FOOT)
STA. 476+17 TO STA. 481+09	RT/LT		4035	
STA. 481+02 TO STA. 482+65	LT			165.54
STA. 481+02 TO STA. 495+00	RT/LT	7872.89		
STA. 482+18 TO STA. 483+04	RT			87.97
STA. 495+00 TO STA. 510+00	RT/LT	5196.78		
STA. 510+00 TO STA. 525+00	RT/LT	4932.17		
STA. 525+00 TO STA. 535+92	RT/LT	5811.93		
STA. 533+26 TO STA. 536+82	RT/LT		4960	
STA. 533+31 TO STA. 535+92	RT			261.14
TOTAL		23814	8995	515

TREE TRUNK PROTECTION SCHEDULE	
LOCATION	
STA. 499+62, 42' RT	
STA. 518+75, 48' RT	
STA. 518+75, 48' RT	
STA. 521+74, 51' RT	
STA. 521+77, 50' RT	
STA. 523+32, 50' RT	
STA. 524+18, 47' RT	
STA. 526+29, 50' RT	
STA. 526+38, 53' RT	
STA. 526+97, 49' RT	
STA. 530+16, 48' RT	
STA. 530+35, 52' RT	
STA. 530+84, 49' RT	
TOTAL = 13 EACH	

EARTHWORK SCHEDULE				
ITEM (CY)	TOTAL	PRE-STAGE 1	STAGE 1	STAGE 2
EARTH EXCAVATION	15,719	1,337	4,067	10,315
ADJUSTED EARTH EXCAVATION *	13,360	1,136	3,457	8,767
FILL/FURNISHED EXCAVATION *	25,429	14,908	9,860	661
EARTHWORK BALANCE *				
EXCESS (+) OR SHORTAGE (-)	-20,176	-13,772	-6,404	+8,106
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (UNDERCUT)	30,897	12,987	16,751	1,159

***NOTES:**

- SHRINKAGE CALCULATED USING 15% SHRINKAGE FACTOR.
- ALL TOPSOIL STRIPING SHALL BE PLACED AT THE TOE OF SLOPE AND BACK SLOPE.
- STAGE 2 EARTHWORK BALANCE DOES NOT COUNT TOWARDS OVERALL BALANCE DUE TO STAGING.

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SCHEDULE		
LOCATION	DEPTH (EXISTING ROADWAY DEPTH)	DEPTH (IN EXIST. DRAINAGE DITCH AREAS)
STA. 489+88 TO STA. 490+56	-	2'
STA. 490+56 TO STA. 491+37	1'	2'
STA. 491+37 TO STA. 492+19	-	2'
STA. 493+68 TO STA. 496+18	0.5'	1'
STA. 496+18 TO STA. 497+38	-	1'
STA. 497+38 TO STA. 498+13	-	8' 2"
STA. 498+13 TO STA. 498+88	-	8' 2"
STA. 498+88 TO STA. 499+63	-	8' 2"
STA. 499+63 TO STA. 500+75	-	0.5'
STA. 500+75 TO STA. 502+25	-	0.5'
STA. 502+25 TO STA. 503+25	-	1'
STA. 505+00 TO STA. 506+99	1'	1'
STA. 506+99 TO STA. 508+25	1'	1'
STA. 508+25 TO STA. 509+13	0.5'	0.5'
STA. 509+13 TO STA. 509+95	0.5'	1'
STA. 516+37 TO STA. 516+87	0.5'	0.5'
STA. 516+87 TO STA. 517+37	0.5'	0.5'
STA. 517+37 TO STA. 519+50	0.5'	0.5'
STA. 524+88 TO STA. 525+62	-	6' 2"
STA. 525+62 TO STA. 526+20	-	6' 2"
STA. 526+20 TO STA. 527+00	-	8' 8"

THESE ARE THE AREAS AND DEPTHS OF THE EXPECTED UNDERCUTS IN ORDER TO REMOVE THE UNSUITABLE MATERIALS IN ADDITION TO THE NOMINAL 22" TO BE REMOVED THROUGHOUT THE PROJECT.

FINAL LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. SEE CROSS-SECTIONS FOR LOCATIONS OF EXPECTED UNDERCUTS.

DRIVEWAY REMOVAL SCHEDULE				
LOCATION	DRIVEWAY MATERIAL	OFFSET	REMOVAL AREA (SQ YD)	
STA. 489+00	BIT	RT	58.4	PAID FOR AS DRIVEWAY PAVEMENT REMOVAL
STA. 494+80	BIT	RT	202.5	PAID FOR AS DRIVEWAY PAVEMENT REMOVAL
STA. 495+60	AGG	LT	78.8	PAID FOR AS EARTH EXCAVATION
STA. 500+05	BIT	RT	78.8	PAID FOR AS DRIVEWAY PAVEMENT REMOVAL
STA. 501+45	AGG	RT	46.1	PAID FOR AS EARTH EXCAVATION
STA. 503+90	AGG	RT	39.8	PAID FOR AS EARTH EXCAVATION
STA. 503+90	AGG	LT	23.2	PAID FOR AS EARTH EXCAVATION
STA. 514+50	AGG	LT	272.1	PAID FOR AS EARTH EXCAVATION
STA. 518+50	AGG	LT	33.0	PAID FOR AS EARTH EXCAVATION
TOTAL			753.9	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

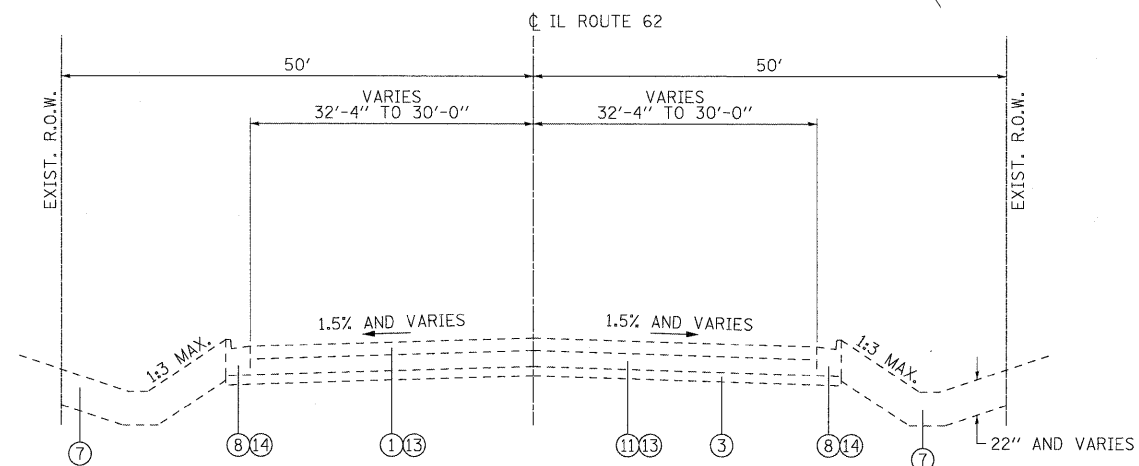
IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
SCHEDULE OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	7
CONTRACT NO. 60135			ILLINOIS FED. AID PROJECT	

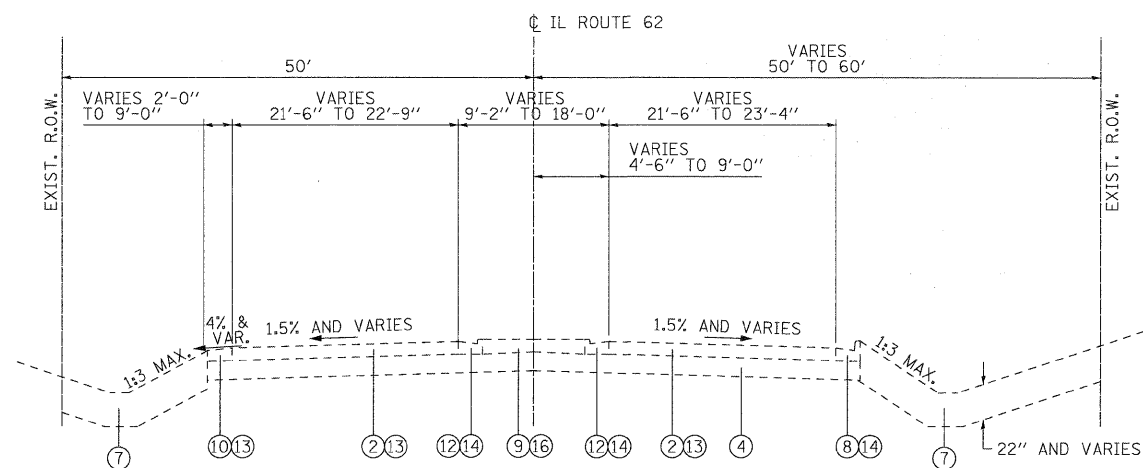
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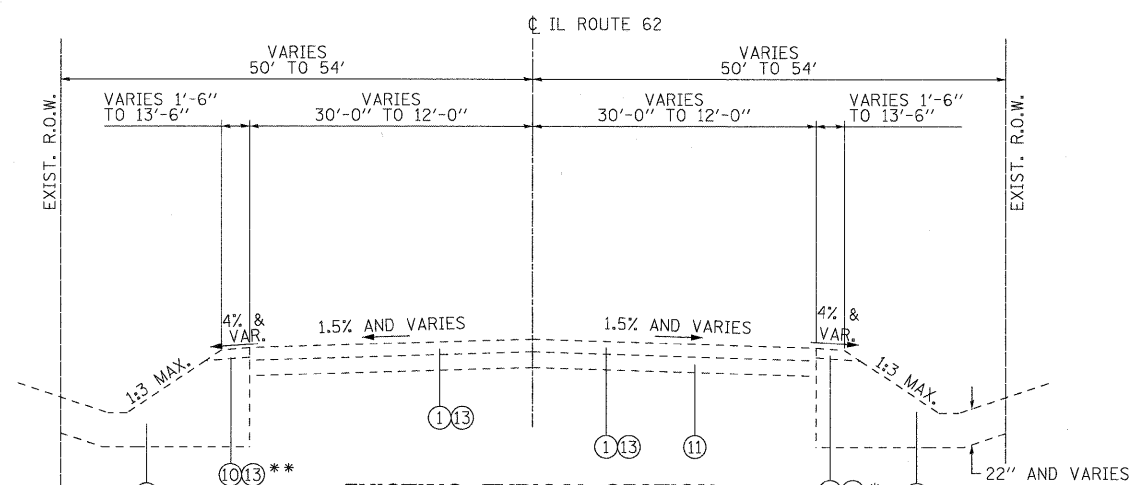
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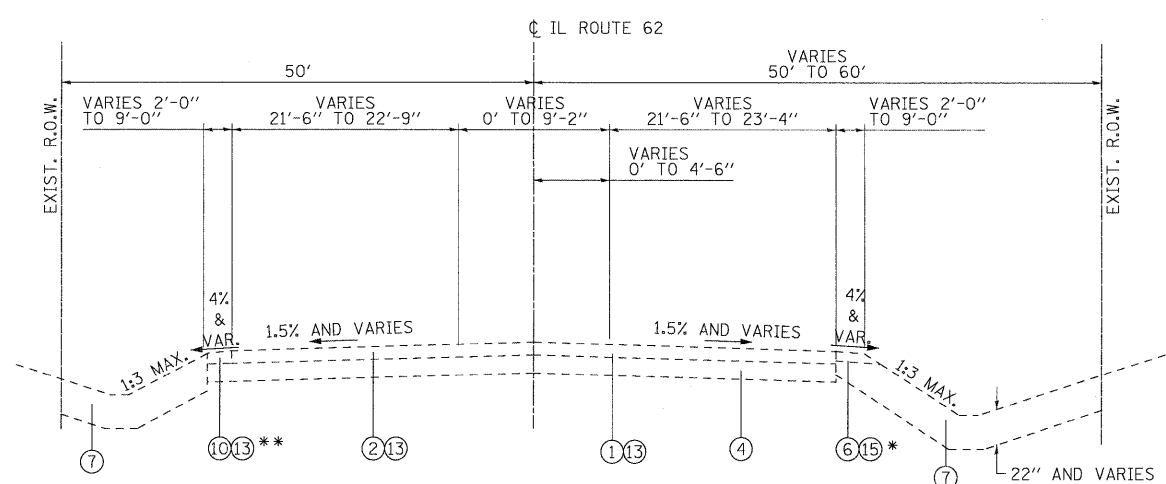
EXISTING TYPICAL SECTION
ILLINOIS ROUTE 62 (ALGONQUIN ROAD)
STA. 481+01.80 TO STA 482+00



EXISTING TYPICAL SECTION
ILLINOIS ROUTE 62 (ALGONQUIN ROAD)
STA. 533+26 TO STA 535+91.80



EXISTING TYPICAL SECTION
ILLINOIS ROUTE 62 (ALGONQUIN ROAD)
STA. 482+00 TO STA 526+01



EXISTING TYPICAL SECTION
ILLINOIS ROUTE 62 (ALGONQUIN ROAD)
STA. 526+01 TO STA 533+26

EXISTING LEGEND

- ① HMA SURFACE/BINDER, 4" AND VARIES
- ② PCC PAVEMENT, 9 1/4"
- ③ GRANULAR SUB-BASE, 4"
- ④ AGGREGATE SUB-GRADE, 12"
- ⑤ HMA SHOULDER, 6" AND VARIES
- ⑥ AGGREGATE SHOULDER
- ⑦ REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- ⑧ CONC. CURB & GUTTER, B-6.24
- ⑨ HMA MEDIAN
- ⑩ PCC SHOULDER
- ⑪ PCC BASE COURSE (7 1/4" TO 10 1/4")
- ⑫ CONC. CURB & GUTTER, M2-24
- ⑬ PAVEMENT REMOVAL
- ⑭ CONC. CURB & GUTTER REMOVAL
- ⑮ EARTH EXCAVATION
- ⑯ MEDIAN REMOVAL

NOTES

- * SHOULDER MATERIAL FROM STA. 482+00 TO STA. 522+18 IS HOT-MIX ASPHALT. SHOULDER MATERIAL FROM STA. 522+18 TO STA. 533+24 IS AGGREGATE.
- ** SHOULDER MATERIAL FROM STA. 482+00 TO STA. 495+32 IS HOT-MIX ASPHALT, SHOULDER MATERIAL FROM STA. 495+32 TO STA 520+01 IS AGGREGATE, AND SHOULDER MATERIAL FROM STA. 520+01 TO STA. 535+92 IS PCC.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

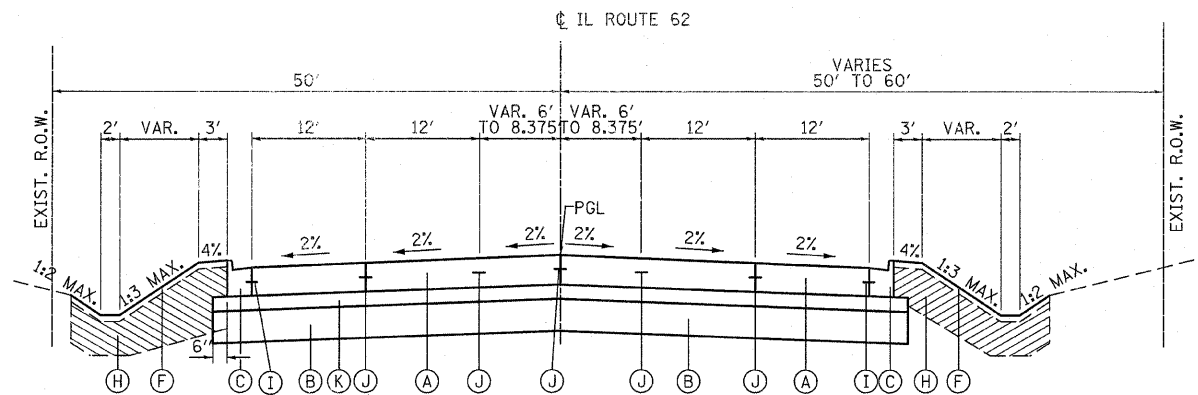
IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
TYPICAL SECTIONS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	9
				CONTRACT NO. 60135
ILLINOIS FED. AID PROJECT				

SCALE: N.T.S. SHEET NO. 1 OF 2 SHEETS STA. TO STA.

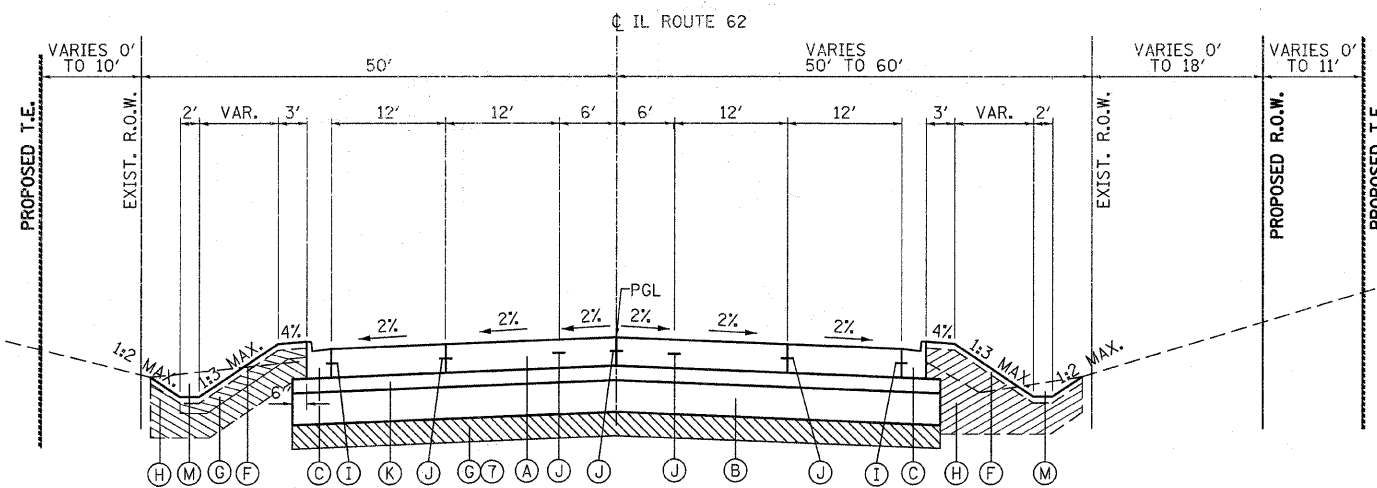
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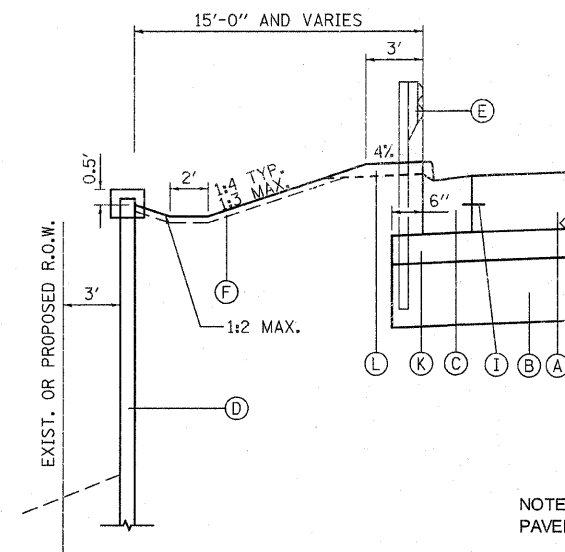
PROPOSED TYPICAL SECTION

ILLINOIS ROUTE 62 (ALGONQUIN ROAD)
 STA. 481+01.80 TO STA 482+00
 STA. 534+40 TO STA 535+91.80



PROPOSED TYPICAL SECTION

ILLINOIS ROUTE 62 (ALGONQUIN ROAD)
 STA. 482+00 TO STA 534+40



TYPICAL SECTION
 DETAIL FOR PROPOSED
 RETAINING WALL AND GUARDRAIL

PROPOSED LEGEND

- (A) PCC PAVEMENT 9 1/2" (JOINTED) (EXTENDED LIFE PAVEMENT)
- (B) AGGREGATE SUBGRADE, SPECIAL (12" THICKNESS, EXTENDED LIFE PAVEMENT)
- (C) COMB. CURB & GUTTER B-6.24 (FOR LOCATIONS OF DEPRESSED CURB AT TRAFFIC BARRIER TERMINALS TYPE 1A SPECIAL, SEE PLANS)
- (D) PROPOSED PERMANENT STEEL RETAINING WALL W/ CONCRETE CAP (SEE STRUCTURAL PLANS)
- (E) STEEL PLATE BEAM GUARDRAIL, TYPE A
- (F) RESTORATION LANDSCAPING:
 - EROSION CONTROL BLANKET
 - SEEDING CLASS 2A, 4 OR 4B (SEE PLANS)
 - TOPSOIL 4" AND/OR COMPOST 2"
 - PLANTING
- (G) POROUS GRANULAR EMBANKMENT, SUBGRADE WITH GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (H) FILL EMBANKMENT (EXCESS EARTH EXCAVATION/FURNISHED EXCAVATION (PRE-STAGE))
- (I) #6 TIE BARS, 24" LONG @ 24" C-C (INCIDENTAL)
- (J) #8 TIE BARS
- (K) STABILIZED SUBBASE - HOT-MIX ASPHALT, 4 1/2" (EXTENDED LIFE PAVEMENT)
- (L) AGGREGATE SHOULDERS, TYPE B 10"
- (M) EARTH EXCAVATION

NOTE: IF THE CONTRACTOR CHOOSES TO USE CONCRETE FOR THE TEMPORARY PAVEMENT THE THICKNESS SHALL BE 10".

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS
STABILIZED SUBBASE **	
STABILIZED SUBBASE - HOT-MIX ASPHALT, 4-1/2" (N50) (IL-19mm)	3% @ 50 Gyr.
DRIVEWAY PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 2" (IL-9.5mm)	4% @ 50 Gyr.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19mm): PE-6"; CE-8"	4% @ 50 Gyr.
TEMPORARY PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5MM) 1-1/2"	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER IL-19MM 8-1/2"	4% @ 50 Gyr.
MEDIAN	
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 4" (IL-9.5mm)	4% @ 50 Gyr.

** SEE SPECIAL PROVISION

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 70 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" shall be "PG 64 -22" UNLESS modified by District ONE Special Provisions.

FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

PAVEMENT DESIGN

ITEM	IL-62
STRUCTURAL DESIGN TRAFFIC (2020)	33,500
ROAD CLASSIFICATION	I
PASSENGER CARS	32,060
SINGLE UNITS	705
MULTIPLE UNITS	735
TRAFFIC FACTOR	IL-62
DESIGN THICKNESS	9.5+4.5+12

THICKNESS: PCC PAVEMENT, STAB SUBBASE-HMA & AGGREGATE SUBGRADE

FILE NAME = ...\\D168135-sht-typical02.dgn



DESIGNED	ADW	REVISED	- ADW; 9/28/11
DRAWN	MHL	REVISED	-
CHECKED	RJD	REVISED	-
DATE	JUNE 30, 2011	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

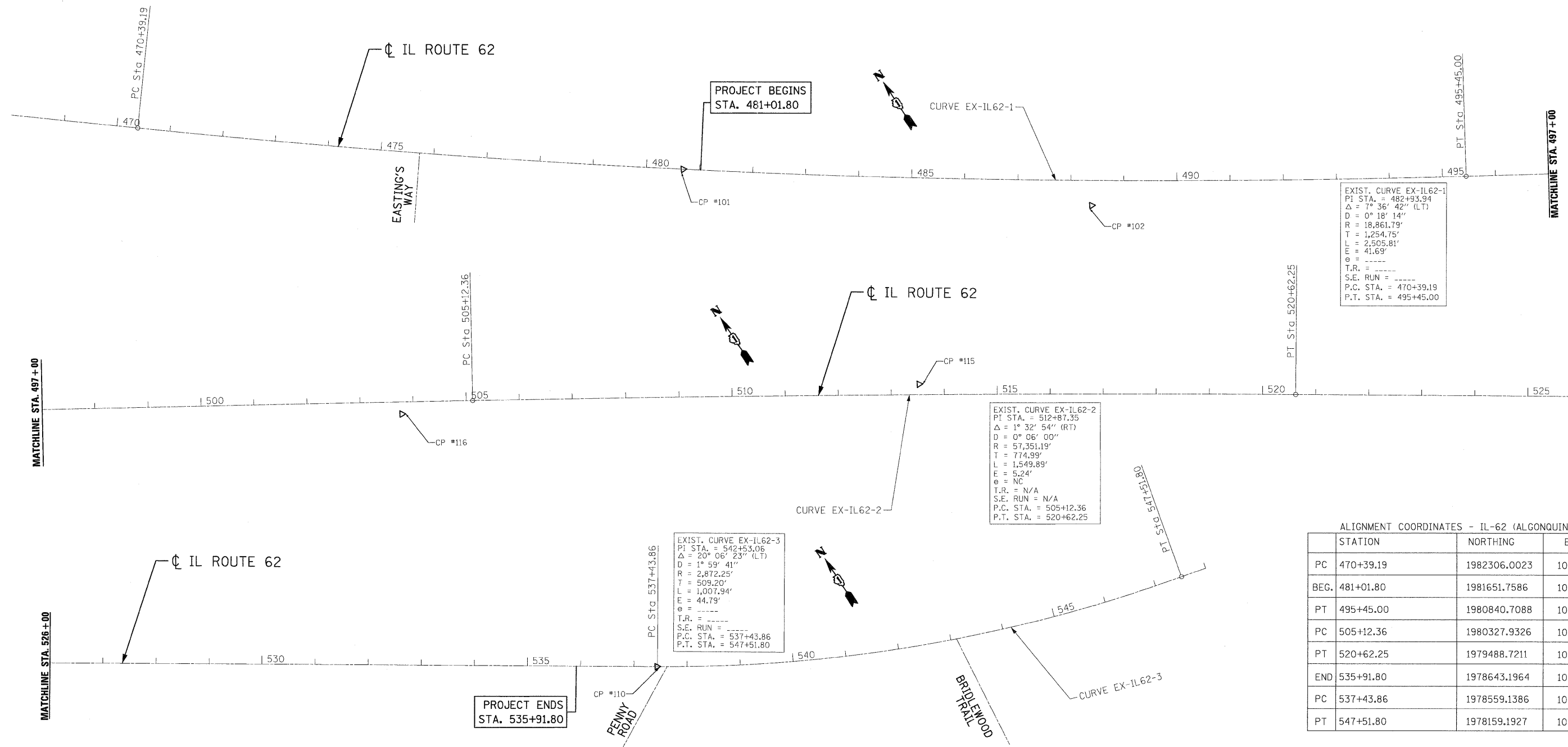
IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
 TYPICAL SECTIONS

SCALE: N.T.S. SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	10
CONTRACT NO. 60135				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
NO.	BY	
NO.	PLOTTED	
NO.	REVISIONS	
NO.	RT. OR MAY CHECKED	
NO.	CADD FILE NAME	

PLAN	SURVEYED	DATE
NO.	BY	
NO.	PLOTTED	
NO.	REVISIONS	
NO.	RT. OR MAY CHECKED	
NO.	CADD FILE NAME	



EXIST. CURVE EX-IL62-1
 PI STA. = 482+93.94
 $\Delta = 7^\circ 36' 42''$ (LT)
 $D = 0^\circ 18' 14''$
 $R = 18,861.79'$
 $T = 1,254.75'$
 $L = 2,505.81'$
 $E = 41.69'$
 $\theta =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 470+39.19$
 $P.T. STA. = 495+45.00$

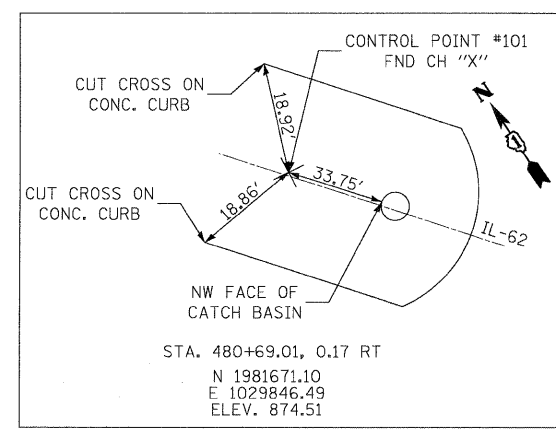
EXIST. CURVE EX-IL62-2
 PI STA. = 512+87.35
 $\Delta = 1^\circ 32' 54''$ (RT)
 $D = 0^\circ 06' 00''$
 $R = 57,351.19'$
 $T = 774.99'$
 $L = 1,549.89'$
 $E = 5.24'$
 $\theta =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 505+12.36$
 $P.T. STA. = 520+62.25$

EXIST. CURVE EX-IL62-3
 PI STA. = 542+53.06
 $\Delta = 20^\circ 06' 23''$ (LT)
 $D = 1^\circ 59' 41''$
 $R = 2,872.25'$
 $T = 509.20'$
 $L = 1,007.94'$
 $E = 44.79'$
 $\theta =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 537+43.86$
 $P.T. STA. = 547+51.80$

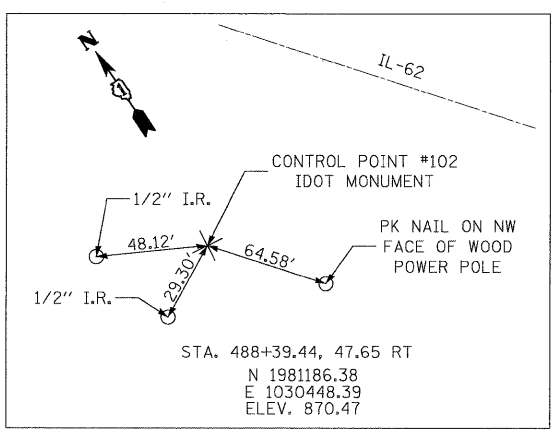
ALIGNMENT COORDINATES - IL-62 (ALGONQUIN ROAD)

STATION	NORTHING	EASTING
PC 470+39.19	1982306.0023	1029035.8304
BEG. 481+01.80	1981651.7586	1029872.9729
PT 495+45.00	1980840.7088	1031066.2876
PC 505+12.36	1980327.9326	1031886.5676
PT 520+62.25	1979488.7211	1033189.5353
END 535+91.80	1978643.1964	1034464.1376
PC 537+43.86	1978559.1386	1034590.8520
PT 547+51.80	1978159.1927	1035510.4150

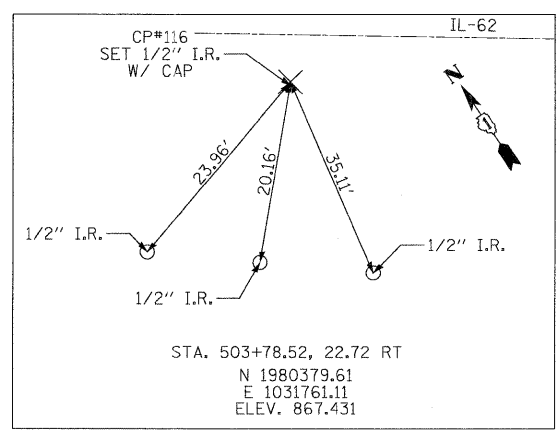
CONTROL POINT #101



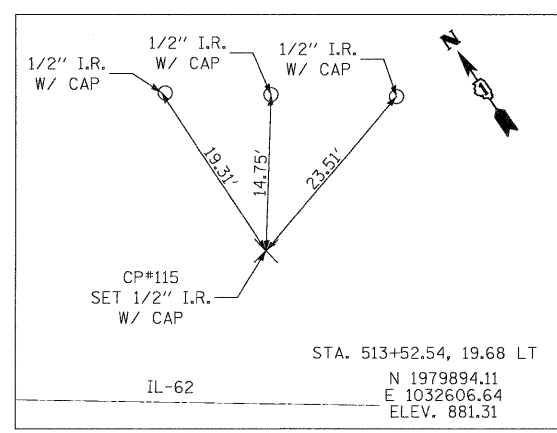
CONTROL POINT #102



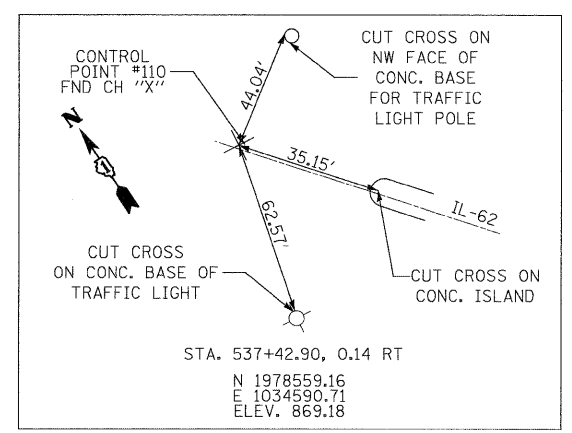
CONTROL POINT #116



CONTROL POINT #115



CONTROL POINT #110



FILE NAME = ...\\D160135-shr-ctb.01.dgn



DESIGNED	ADW	REVISED	-
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CHECKED	RJD	REVISED	-
DATE	JUNE 30, 2011	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

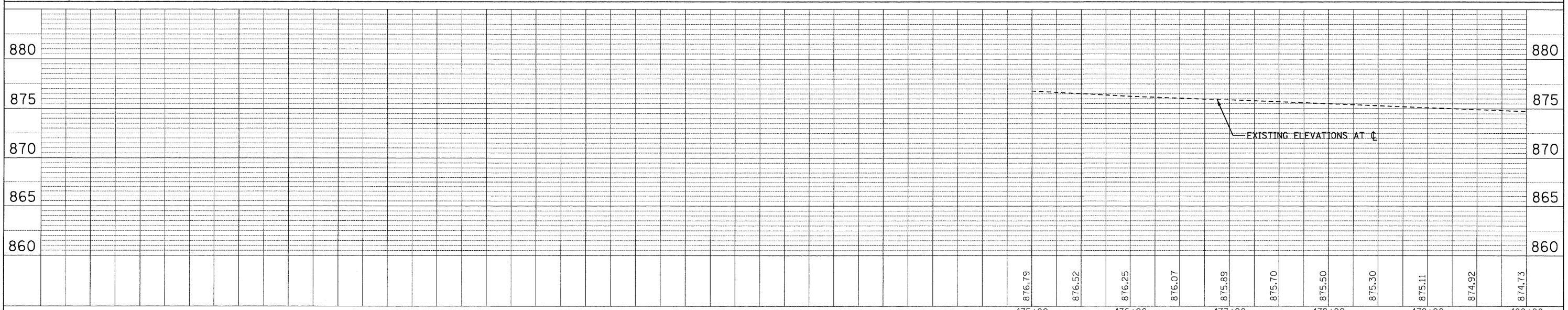
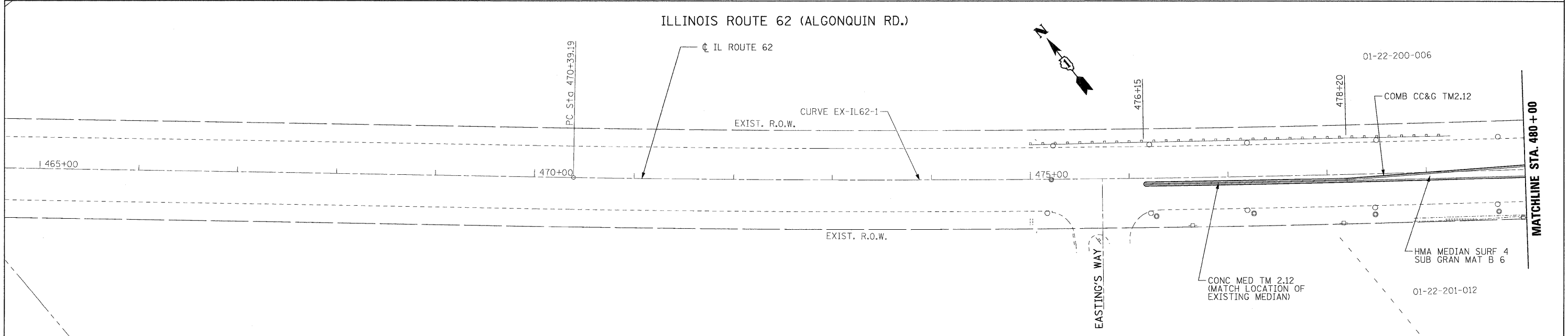
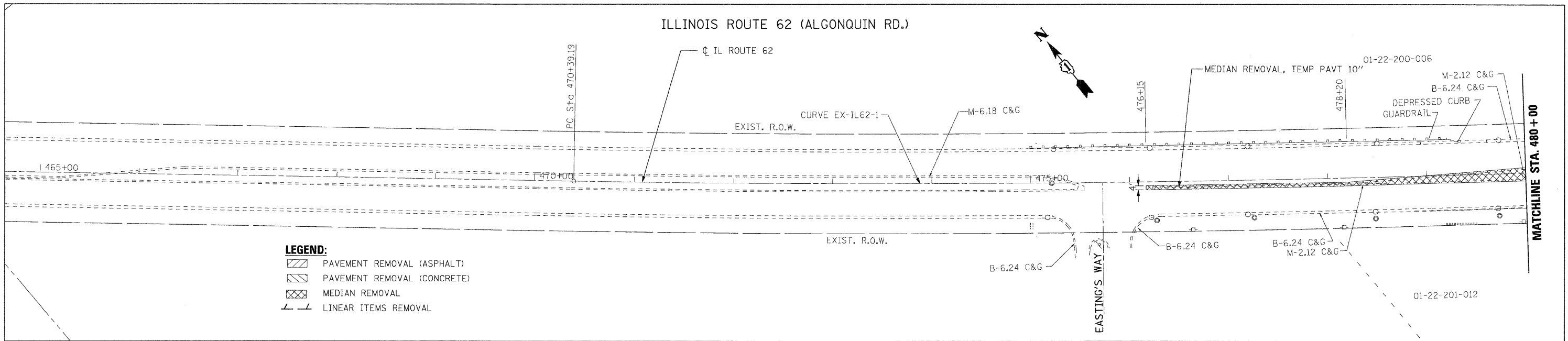
IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
 ALIGNMENT & TIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	11
				CONTRACT NO. 60135
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 100' SHEET NO. 1 OF 1 SHEETS STA. 481+01.80 TO STA. 535+91.80

PLAN
NO. _____
NOTE BOOK _____
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BY _____
SURVEYED _____
PLOTTED _____
DESIGNED _____
DRAWN _____
CHECKED _____
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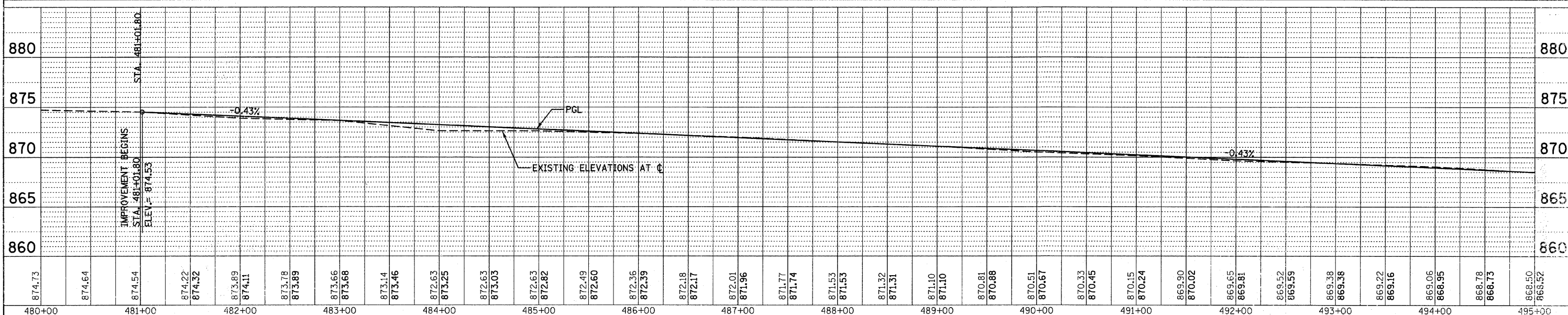
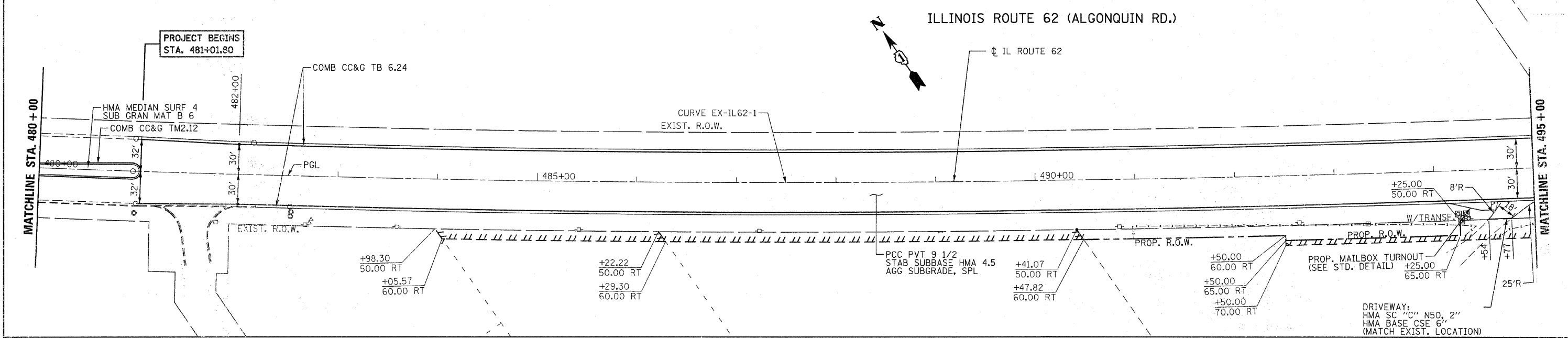
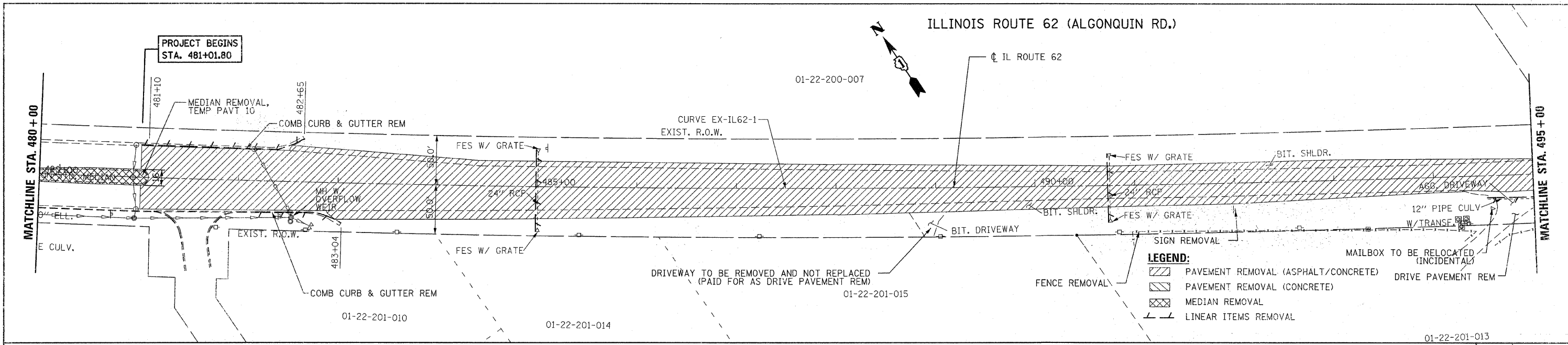
PROFILE
NO. _____
NOTE BOOK _____
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BY _____
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DATE _____
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SURVEYED _____
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DESIGNED _____
DRAWN _____
CHECKED _____
DATE _____
BY _____



FILE NAME - ...N0168135-sh1-plan.dgn	DESIGNED RJD DRAWN ADW CHECKED TWL DATE JUNE 30, 2011	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD. EXISTING & PROPOSED PLAN AND PROFILE		F.A.P. RTE. 339	SECTION 116 Y-1-R-1	COUNTY COOK	TOTAL SHEETS 122	SHEET NO. 12
SCALE: 1"=50'					SHEET NO. 1 OF 5 SHEETS		STA. 475+00 TO STA. 480+00		CONTRACT NO. 60135		
ILLINOIS FED. AID PROJECT											

DATE	
BY	
REGISTERED	
PLANNER	
ROUTE BOOK	
NO.	
PROJECT	
DATE	
BY	
REGISTERED	
PLANNER	
ROUTE BOOK	
NO.	

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ROUTE BOOK	
NO.	
PROJECT	
DATE	
BY	
REGISTERED	
PLANNER	
ROUTE BOOK	
NO.	



FILE NAME =	DESIGNED RJD	REVISED -	ADW; 9/28/11	IL RTE 62 (ALGONGQUIN RD.) FROM EASTING'S WAY TO PENNY RD.	F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\D158135-sht-pln_82.dgn	DRAWN ADW	REVISED -		EXISTING & PROPOSED PLAN AND PROFILE	339	116 Y-1-R-1	COOK	122	13
	CHECKED TWL	REVISED -		SCALE: 1"=50'	SHEET NO. 2 OF 5 SHEETS		STA. 480+00 TO STA. 495+00	CONTRACT NO. 60135	
	DATE JUNE 30, 2011	REVISED -		ILLINOIS FED. AID PROJECT					

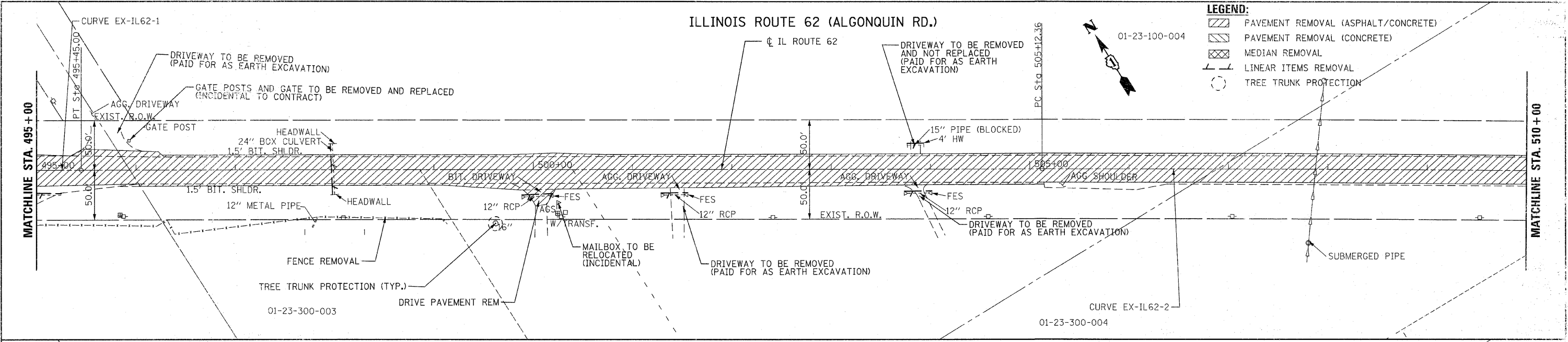


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	13
CONTRACT NO. 60135				

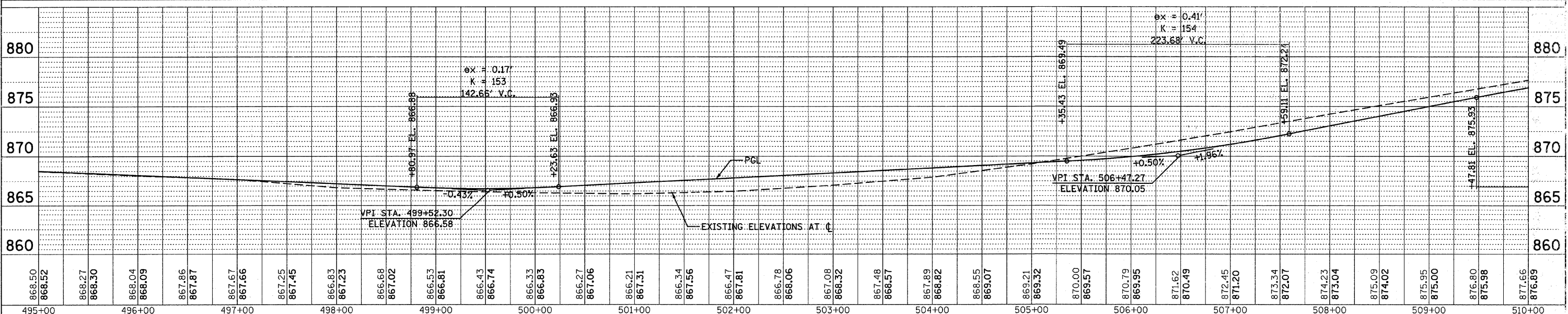
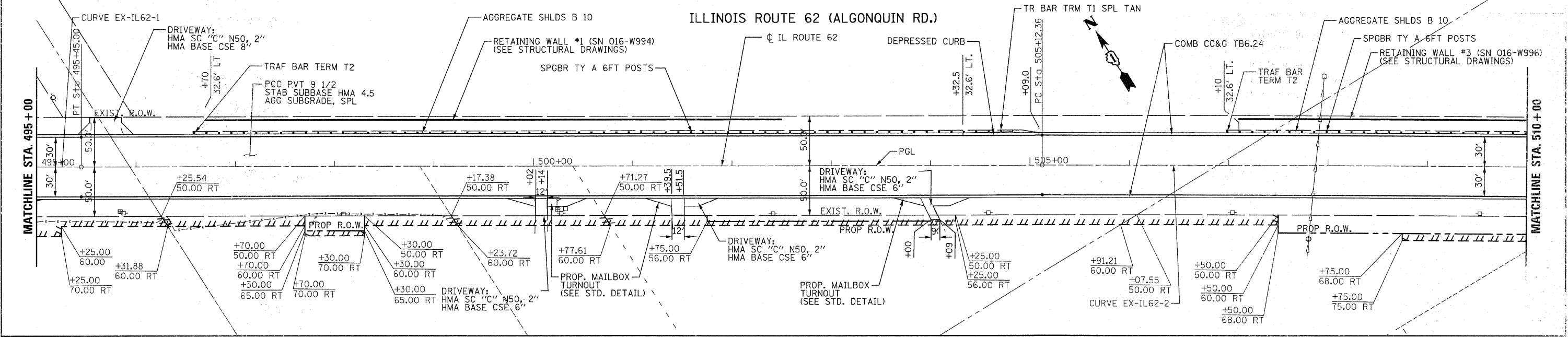
DATE: _____ BY: _____
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DATE: _____ BY: _____
 PROFILE
 NO. _____



LEGEND:

- PAVEMENT REMOVAL (ASPHALT/CONCRETE)
- PAVEMENT REMOVAL (CONCRETE)
- MEDIAN REMOVAL
- LINEAR ITEMS REMOVAL
- TREE TRUNK PROTECTION



866.50	866.52	866.27	866.30	868.04	868.09	867.86	867.87	867.67	867.66	867.25	867.45	866.83	867.23	866.68	867.02	866.53	866.81	866.43	866.74	866.33	866.83	866.27	867.06	866.21	867.31	866.34	867.56	866.47	867.81	866.78	866.06	867.08	868.32	867.48	868.57	867.89	868.82	868.55	869.07	869.21	869.32	870.00	869.57	870.79	869.95	871.62	870.49	872.45	871.20	873.34	872.07	874.23	873.04	875.09	874.02	875.95	875.00	876.80	875.98	877.66	876.89
495+00	496+00	497+00	498+00	499+00	500+00	501+00	502+00	503+00	504+00	505+00	506+00	507+00	508+00	509+00	510+00																																														

FILE NAME = ...ND160135-sht-plan_03.dgn

Primera

DESIGNED	RJD	REVISED	- ADW; 9/28/11
DRAWN	ADW	REVISED	-
CHECKED	TWL	REVISED	-
DATE	JUNE 30, 2011	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
 EXISTING & PROPOSED PLAN AND PROFILE

SCALE: 1"=50' SHEET NO. 3 OF 5 SHEETS STA. 495+00 TO STA. 510+00

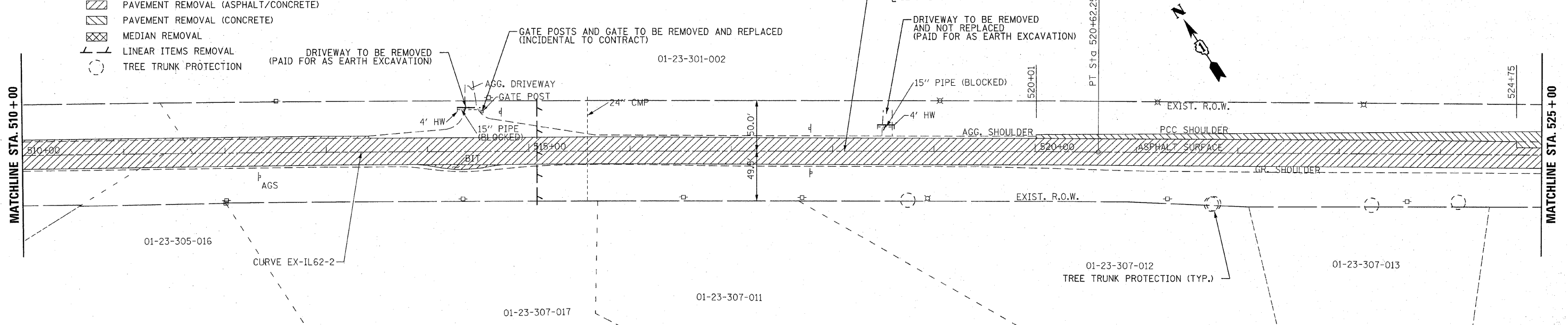
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	14
CONTRACT NO. 60135				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
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ALIGNMENT CHECKED	
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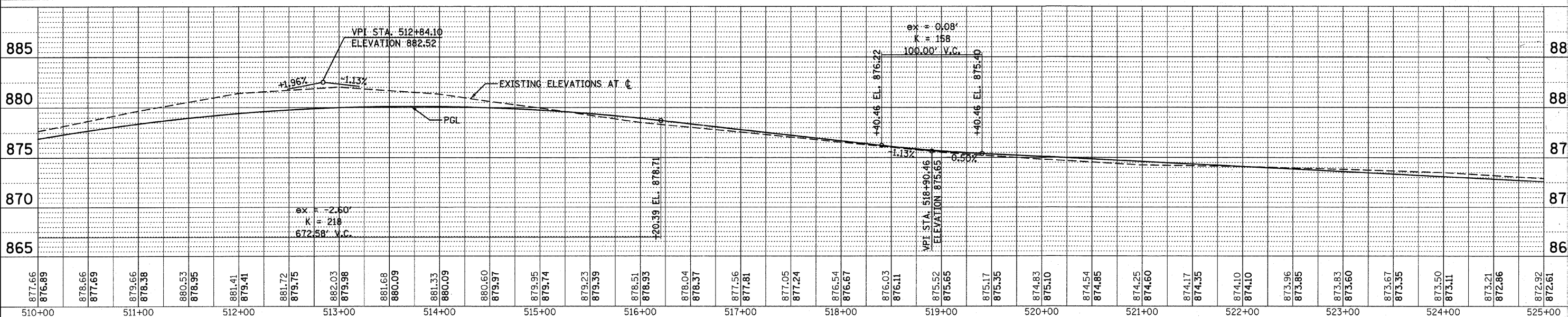
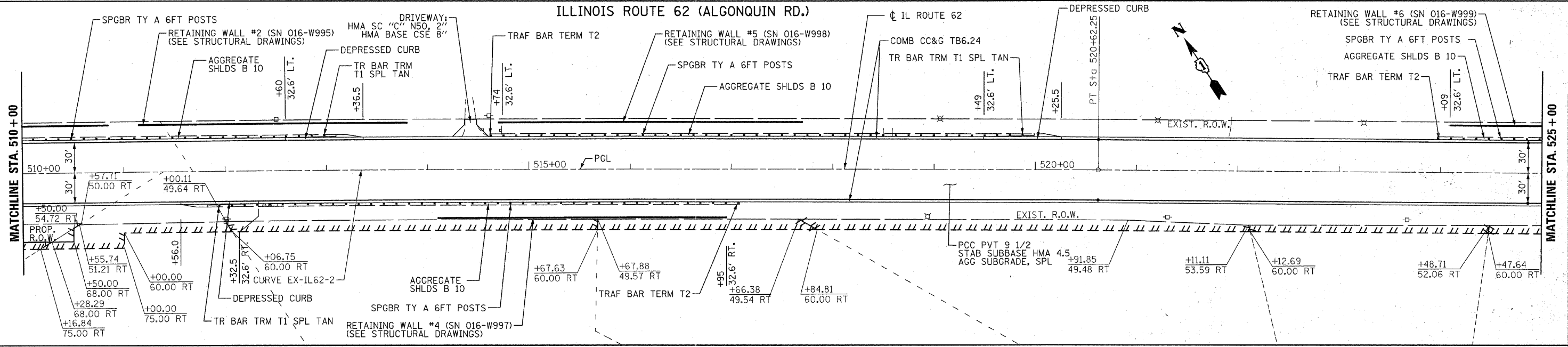
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PROFILE CHECKED	
SYMBOLS NOTATION CHG	
NO.	

- LEGEND:**
- PAVEMENT REMOVAL (ASPHALT/CONCRETE)
 - PAVEMENT REMOVAL (CONCRETE)
 - MEDIAN REMOVAL
 - LINEAR ITEMS REMOVAL
 - TREE TRUNK PROTECTION

ILLINOIS ROUTE 62 (ALGONQUIN RD.)



ILLINOIS ROUTE 62 (ALGONQUIN RD.)



877.66	876.89	878.66	877.69	879.66	878.38	880.53	878.95	881.41	879.41	881.72	879.75	882.03	879.98	881.68	880.09	881.33	880.09	880.60	879.97	879.95	879.74	879.23	879.39	878.51	878.93	878.04	878.37	877.56	877.81	877.05	877.24	876.54	876.67	876.03	876.11	875.52	875.65	875.17	875.35	874.83	875.10	874.54	874.85	874.25	874.60	874.17	874.35	874.10	874.10	873.96	873.85	873.83	873.60	873.67	873.35	873.50	873.11	873.21	872.86	872.92	872.61
510+00		511+00		512+00		513+00		514+00		515+00		516+00		517+00		518+00		519+00		520+00		521+00		522+00		523+00		524+00		525+00																															

FILE NAME = ...ND168135-sht-plan_04.dgn

	DESIGNED RJD	REVISED - ADW; 9/28/11
	DRAWN ADW	REVISED -
	CHECKED TWL	REVISED -
	DATE JUNE 30, 2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

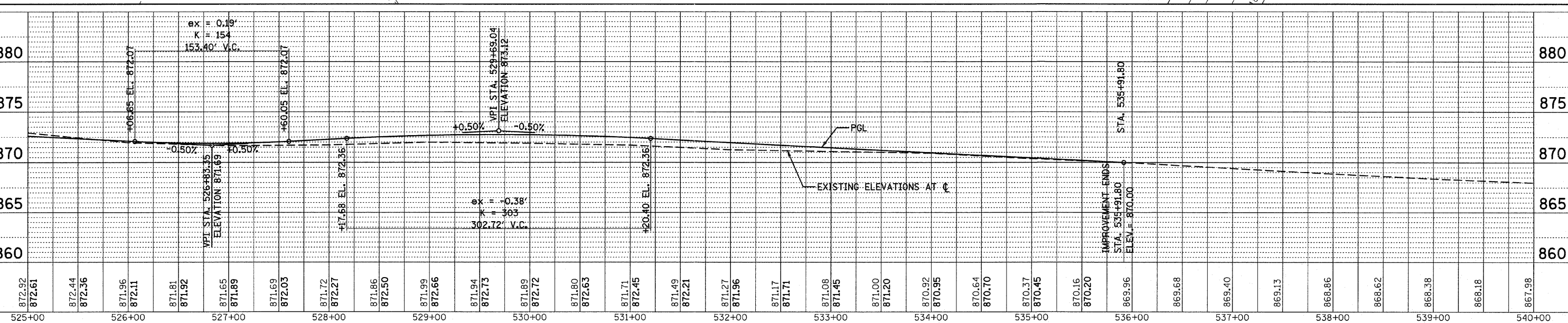
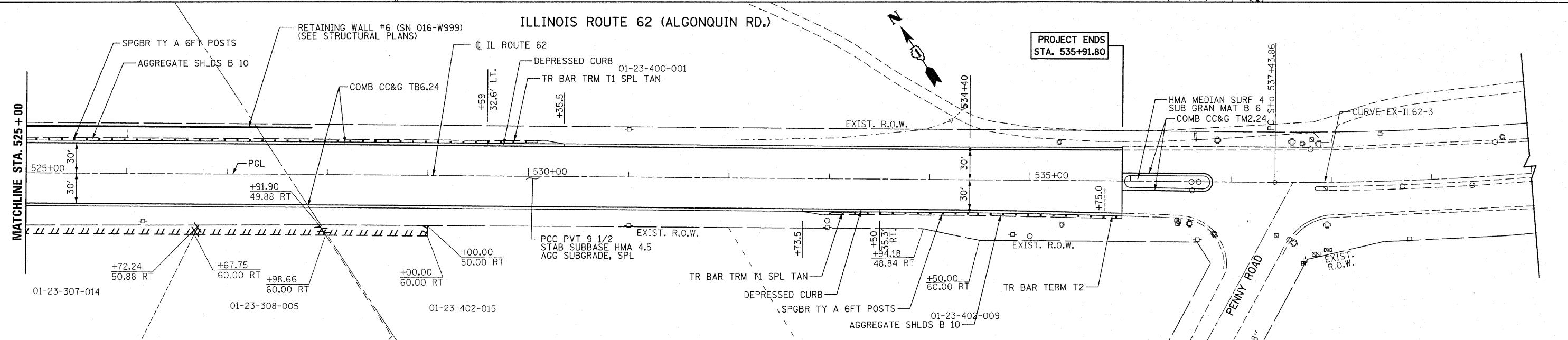
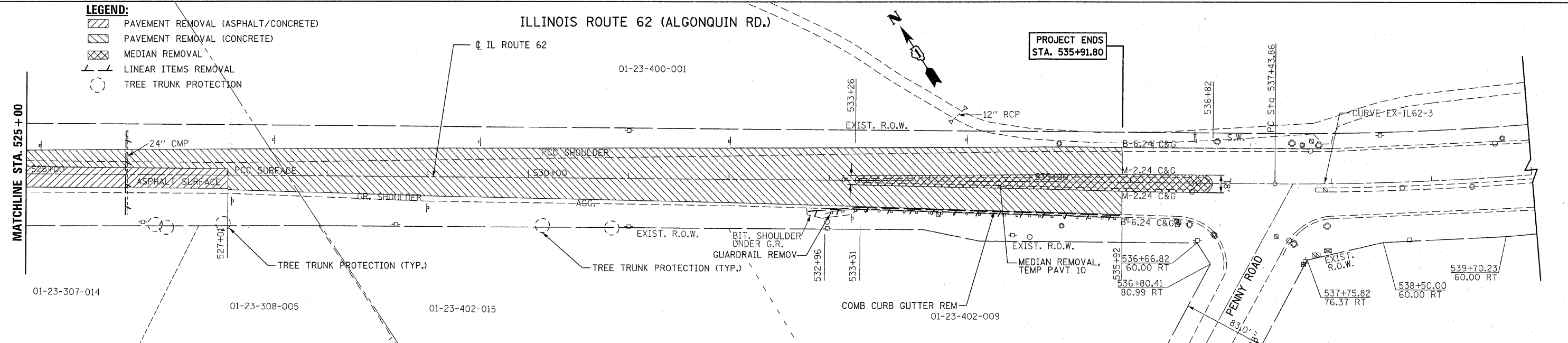
IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
EXISTING & PROPOSED PLAN AND PROFILE

F.A.P. RTE. 339	SECTION 116 Y-1-R-1	COUNTY COOK	TOTAL SHEETS 122	SHEET NO. 15
CONTRACT NO. 60135				

SCALE: 1"=50' SHEET NO. 4 OF 5 SHEETS STA. 510+00 TO STA. 525+00

ILLINOIS FED. AID PROJECT

- LEGEND:**
- PAVEMENT REMOVAL (ASPHALT/CONCRETE)
 - PAVEMENT REMOVAL (CONCRETE)
 - MEDIAN REMOVAL
 - LINEAR ITEMS REMOVAL
 - TREE TRUNK PROTECTION



PLAN	REVISIONS	DATE
NO.	NO.	

PROFILE	REVISIONS	DATE
NO.	NO.	

FILE NAME = ...0160135-sht-p1.en_05.dgn



DESIGNED	RJD	REVISED	-	ADW; 9/28/11
DRAWN	ADW	REVISED	-	
CHECKED	TWL	REVISED	-	
DATE	JUNE 30, 2011	REVISED	-	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
EXISTING & PROPOSED PLAN AND PROFILE**

SCALE: 1"=50' SHEET NO. 5 OF 5 SHEETS STA. 525+00 TO STA. 535+91.80

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	16
CONTRACT NO. 60I35			ILLINOIS FED. AID PROJECT	

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE MAINTENANCE OF TRAFFIC CONTROL (MOT) PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY MODIFY THE MOT PLANS TO MEET CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE MOT PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE TO THE MOT PLANS.
3. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
4. ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE MAINTENANCE OF TRAFFIC STRIPING SHALL BE REMOVED. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT, "PAVEMENT MARKING REMOVAL".
5. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY PAVEMENT MARKING TAPE WHICH CONFLICTS WITH THE NEXT STAGE OR FINAL STRIPING. REMOVAL OF TEMPORARY PAVEMENT MARKING TAPE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT, "WORK ZONE PAVEMENT MARKING REMOVAL".
6. ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC, AS DETAILED ON THE PLANS, OR HIGHWAY STANDARD SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS SPECIFIED IN MAINTENANCE OF TRAFFIC SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.
7. ALL DRUMS, VERTICAL PANELS AND BARRICADES ADJACENT TO THE EDGE OF TRAVELED WAY SHALL BE EQUIPPED WITH STEADY-BURNING LIGHTS.
8. DRUMS SHALL HAVE ALTERNATING REFLECTORIZED TYPE AA OR TYPE AP FLUORESCENT ORANGE AND REFLECTORIZED WHITE HORIZONTAL, CIRCUMFERENTIAL STRIPES.
9. DRUMS AND BARRICADES SHALL MEET THE REQUIREMENTS OF THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP) REPORT 350 AND THE SPECIAL PROVISION "WORK ZONE TRAFFIC CONTROL DEVICES".
10. ALL EXISTING SIGNS WITHIN THE LIMITS OF MAINTENANCE OF TRAFFIC WHICH ARE OBSCURED BY OR OTHERWISE INTERFERED WITH BY THE CONSTRUCTION OPERATIONS AND MAINTENANCE OF TRAFFIC, SHALL BE COVERED OR REMOVED BY THE CONTRACTOR UNLESS SPECIFIED IN THE PLANS OR WHEN DIRECTED BY THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLE 107.25 OF THE IDOT STANDARD SPECIFICATIONS.
11. TEMPORARY, OFF-PEAK HOUR LANE CLOSURES MUST BE REQUESTED THROUGH THE ENGINEER AND AS SPECIFIED IN THE SPECIAL PROVISIONS, WHEN OFF-PEAK HOUR OR WEEKEND LANE CLOSURES ARE REQUIRED, A PORTABLE CHANGEABLE MESSAGE SIGN SHALL BE INSTALLED ONE WEEK PRIOR TO THE CLOSURE. THE MESSAGE SIGN WORDING AND LOCATION WILL BE DETERMINED BY THE ENGINEER.
12. THE CONTRACTOR SHALL PLACE A CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT AND/OR AS DIRECTED BY THE ENGINEER TO INFORM MOTORISTS OF UPCOMING CONSTRUCTION ACTIVITIES. THE MESSAGE SIGNS WITH THE APPROPRIATE INFORMATION SHALL BE IN PLACED TWO WEEKS BEFORE START OF CONSTRUCTION ACTIVITY. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR MONTH, "CHANGEABLE MESSAGE SIGN".
13. ALL TEMPORARY INFORMATION SIGNS SHALL BE PAID FOR SEPARATELY AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR "TEMPORARY INFORMATION SIGNING".
14. THE COST OF SUPPLYING, ERECTING, AND MAINTAINING BARRICADES, DRUMS, WARNING LIGHTS, AND SIGNS SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION (SPECIAL)." QUANTITIES FOR TEMPORARY PAVEMENT MARKINGS ARE NOT INCLUDED IN "TRAFFIC CONTROL AND PROTECTION (SPECIAL)" AND SHALL BE MEASURED SEPARATELY FOR PAYMENT.
15. ALL BARRICADES SHALL BE PLACED AT THE CORRECT DISTANCE PER THE APPROPRIATE STANDARD.
16. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISION OF THE STAGE OF ILLINOIS "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007, AND THE LATEST VERSION OF THE STATE OF ILLINOIS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS AND OTHERS DEVICES INSTALLED ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME CONSTRUCTION IS IN EFFECT.
18. AS MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED SHALL MEET THE REQUIREMENTS FOR A LOW INTENSITY FLASHING LIGHTS IN ARTICLE 1084.01 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING HOURS OF DARKNESS. ONLY LIGHTS THAT BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.
19. THE COST OF ARROW BOARDS (FURNISHING, INSTALLING, RELOCATING AND REMOVAL) SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND PROTECTION (SPECIAL).

SUGGESTED CONSTRUCTION SEQUENCING

PRESTAGE

REMOVE EXISTING CROSS-ROAD CULVERTS AND INSTALL NEW CROSS-ROAD CULVERTS (PIPE CULVERT NO. 7, 21, 60, 62, & 91) INSTALL 10-INCH TEMPORARY HMA IN CROSS-ROAD TRENCH.
 REMOVE EXISTING CONCRETE MEDIAN, CONSTRUCT TEMPORARY PAVEMENT AND WEST SIDE EMBANKMENT.
 INSTALL TEMPORARY TRAFFIC SIGNAL.
 INSTALL TEMPORARY MANHOLES FOR PUMPING TO MAINTAIN DRAINAGE.
 INSTALL STORM SEWER TRUNK LINE AND LATERALS ON SOUTH SIDE OF IL ROUTE 62 FROM STA. 516+00 TO 529+00.
 PLACE STEEL PLATES OVER THE FLAT SLAB TOPS OF THE NEW STORM SEWER STRUCTURES ON THE SOUTH SIDE OF IL ROUTE 62 FROM STA. 516+00 TO 529+00 PRIOR TO PLACING TEMPORARY PAVEMENT.

MAINTENANCE OF TRAFFIC:
 THE CROSS-ROAD CULVERT REMOVAL AND REPLACEMENT WILL BE DONE ACROSS ONLY ONE-LANE AT A TIME. UTILIZE STANDARDS 701201-04 AND 701326-04.

STAGE 1

CONSTRUCTION:
 WESTBOUND LANES: REMOVE EXISTING PAVEMENT, INSTALL TEMPORARY SHEET PILING, AND INSTALL NEW RETAINING WALLS. INSTALL PORTION OF STORM SEWER SYSTEM ON NORTH SIDE OF IL ROUTE 62 AND CONSTRUCT NEW WESTBOUND LANES.

MAINTENANCE OF TRAFFIC:
 UTILIZE MAINTENANCE OF TRAFFIC DETAILS IN THE PLANS AND STANDARDS 701431-06 AND 701606-07.

STAGE 2

CONSTRUCTION:
 EASTBOUND LANES: REMOVE EXISTING PAVEMENT AND CONSTRUCT NEW EASTBOUND LANES. INSTALL NEW RETAINING WALLS AND REMAINING PORTION OF STORM SEWER SYSTEM.

MAINTENANCE OF TRAFFIC:
 UTILIZE MAINTENANCE OF TRAFFIC DETAILS IN THE PLANS AND STANDARDS 701431-06 AND 701606-07.

STAGE 3

CONSTRUCTION:
 REMOVE TEMPORARY PAVEMENT AND CONSTRUCT MEDIANS AT PENNY ROAD AND EASTINGS WAY. PLACE FINAL PAVEMENT MARKINGS, RAISED REFLECTIVE MARKERS, AND LANDSCAPING.

MAINTENANCE OF TRAFFIC:
 UTILIZE AND STANDARDS 701311-03 AND 701701-07.

PLAN	SURVEYED	BY	DATE
NOTE BOOK	ALIGNED		
No.	PT. OF WAY CHECKED		
	CAD FILE NAME		

PLAN	SURVEYED	BY	DATE
NOTE BOOK	ALIGNED		
No.	PT. OF WAY CHECKED		
	CAD FILE NAME		

FILE NAME =
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DRAWN	MHL	REVISED	-
CHECKED	RJD	REVISED	-
DATE	JUNE 30, 2011	REVISED	-

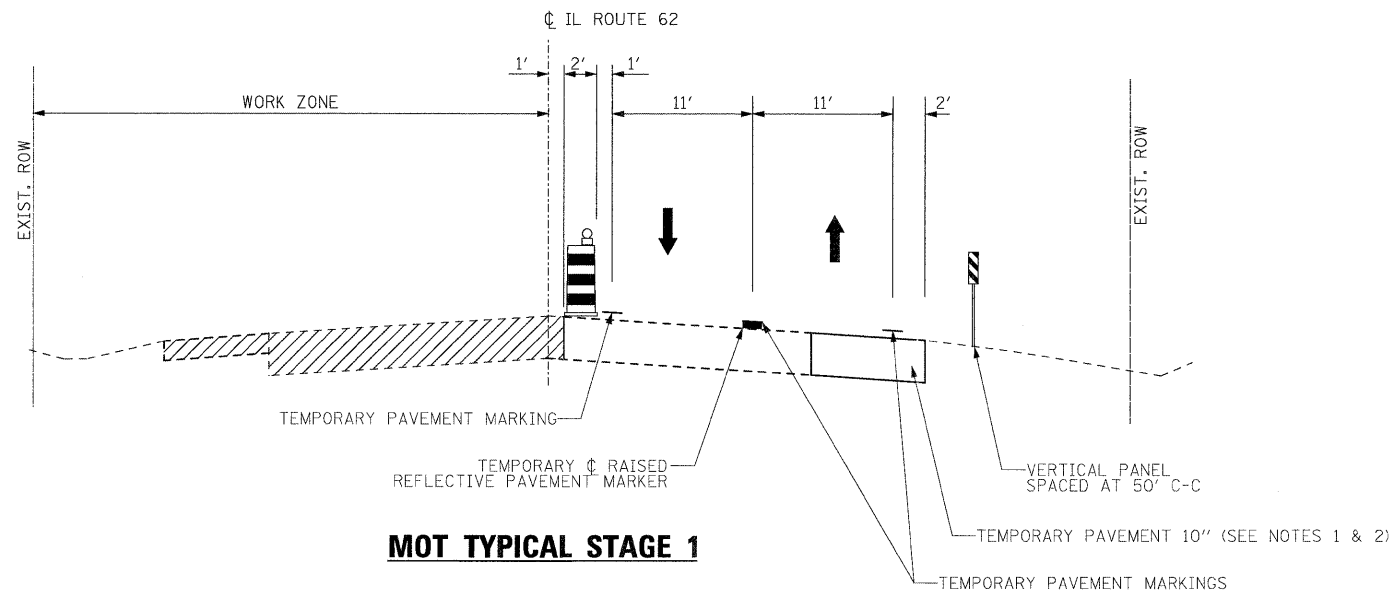
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
 MOT GENERAL NOTES AND SUGGESTED CONSTRUCTION SEQUENCING**

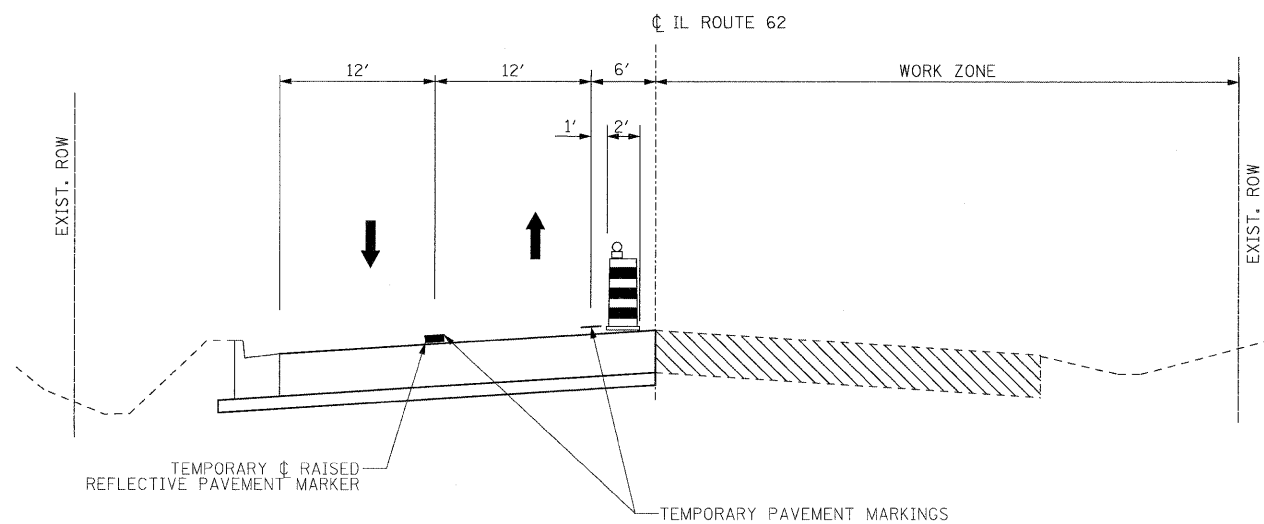
SCALE:	NTS	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	17
CONTRACT NO. 60135			ILLINOIS FED. AID PROJECT	

PLAN	REVISIONS	DATE
NO.		
NOTE BOOK	ALIGNED	CHECKED
	CADD FILE NAME	



MOT TYPICAL STAGE 1



MOT TYPICAL STAGE 2

NOTES

1. THE CROSS SLOPE OF THE TEMPORARY PAVEMENT SHALL MATCH THE CROSS SLOPE OF THE EXISTING PAVEMENT (OR AS DIRECTED BY THE ENGINEER).
2. THE TEMPORARY PAVEMENT 10" WILL BE COMPRISED OF:
 8 1/2" HOT-MIX ASPHALT BINDER IL-19, N50 &
 1 1/2" HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50

PLAN	REVISIONS	DATE
NO.		
NOTE BOOK	ALIGNED	CHECKED
	CADD FILE NAME	

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DATE	JUNE 30, 2011	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
MAINTENANCE OF TRAFFIC TYPICAL SECTIONS













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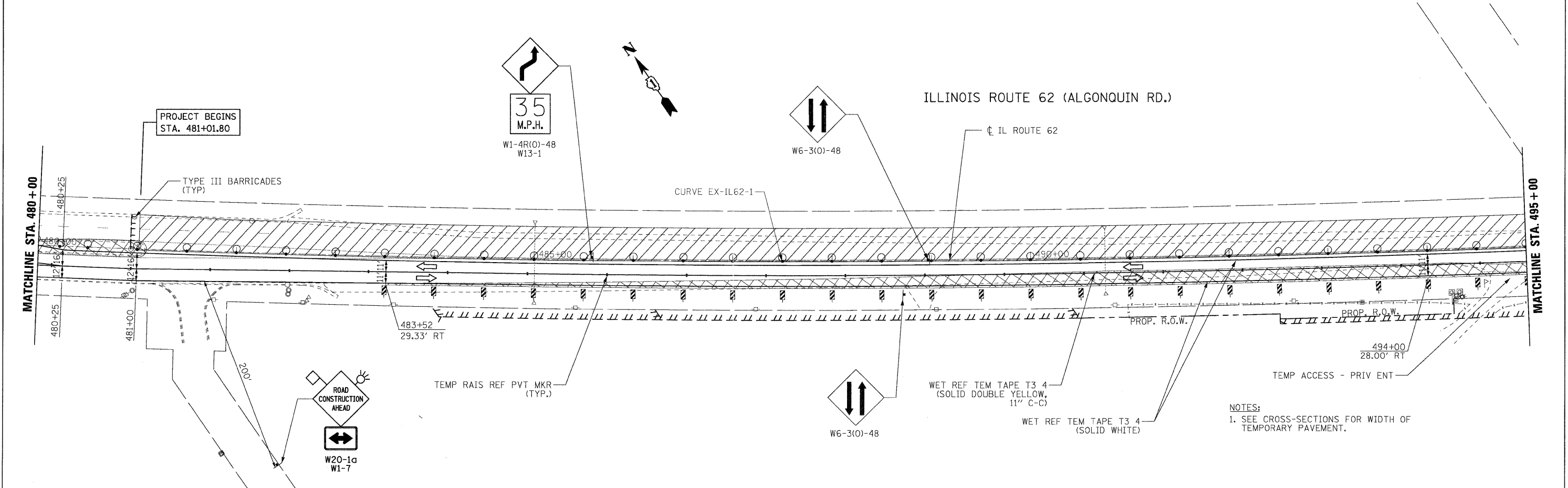
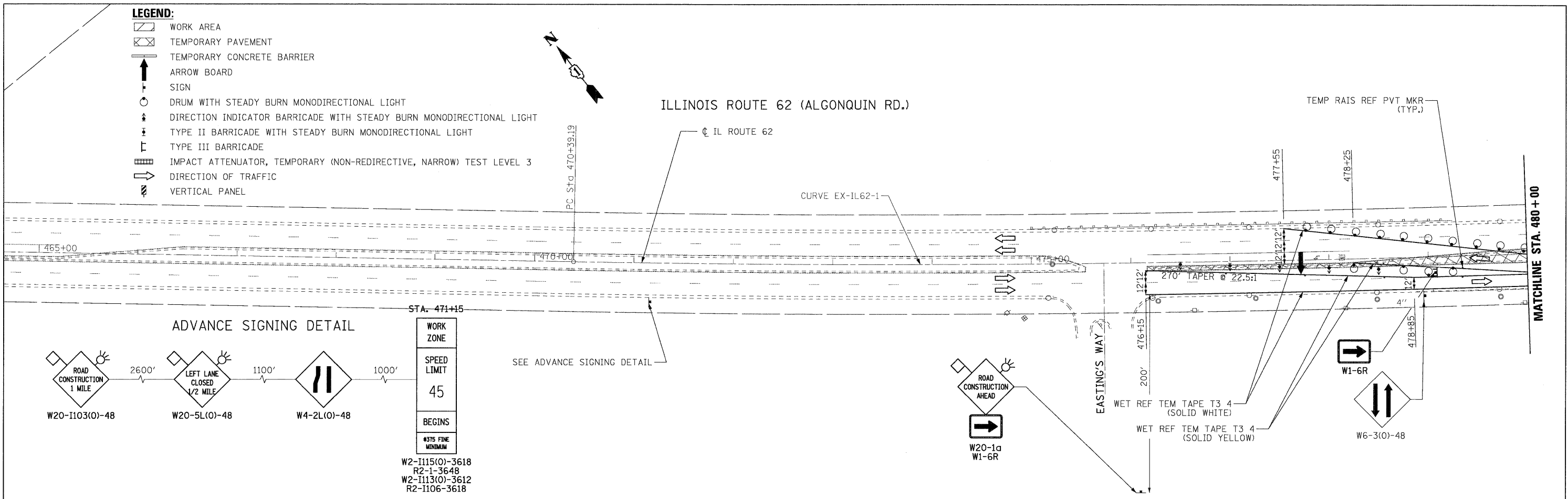
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	18
				CONTRACT NO. 60135
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
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PLAN	SURVEYED	DATE
	ALIGNED	
	CHECKED	
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LEGEND:

-  WORK AREA
-  TEMPORARY PAVEMENT
-  TEMPORARY CONCRETE BARRIER
-  ARROW BOARD
-  SIGN
-  DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  TYPE III BARRICADE
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE, NARROW) TEST LEVEL 3
-  DIRECTION OF TRAFFIC
-  VERTICAL PANEL



NOTES:
1. SEE CROSS-SECTIONS FOR WIDTH OF TEMPORARY PAVEMENT.

FILE NAME =
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DESIGNED	ADW	REVISED	-
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DATE	JUNE 30, 2011	REVISED	-

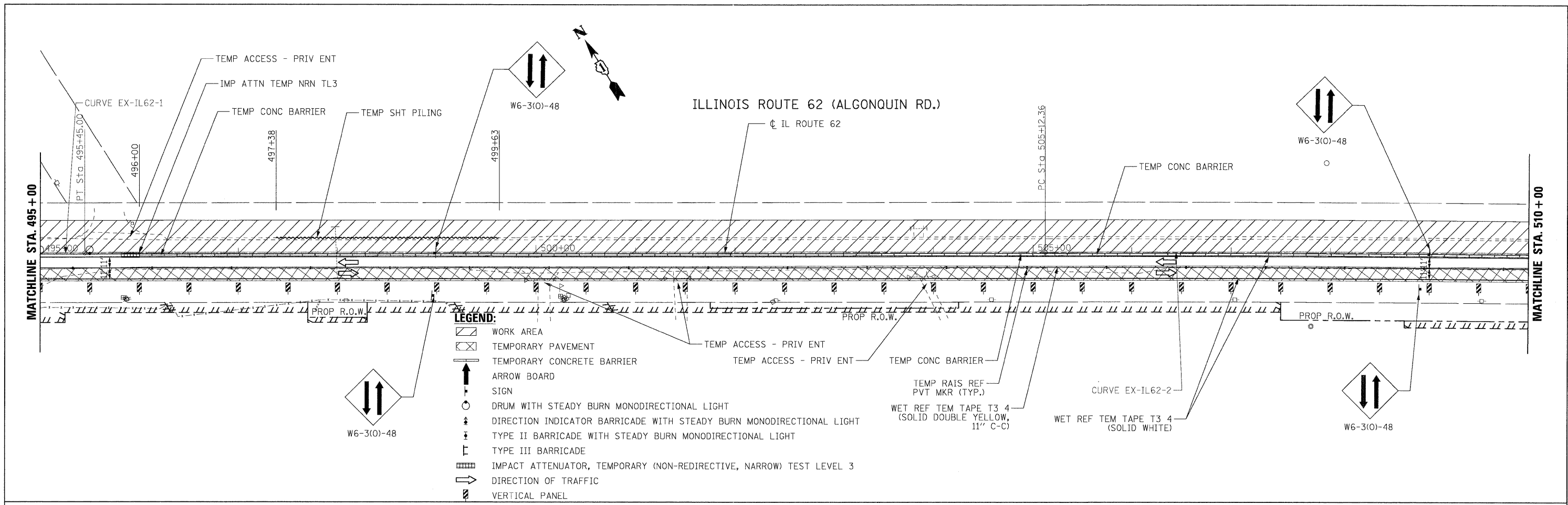
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
SUGGESTED STAGE OF CONSTRUCTION & TRAFFIC CONTROL - STAGE 1**

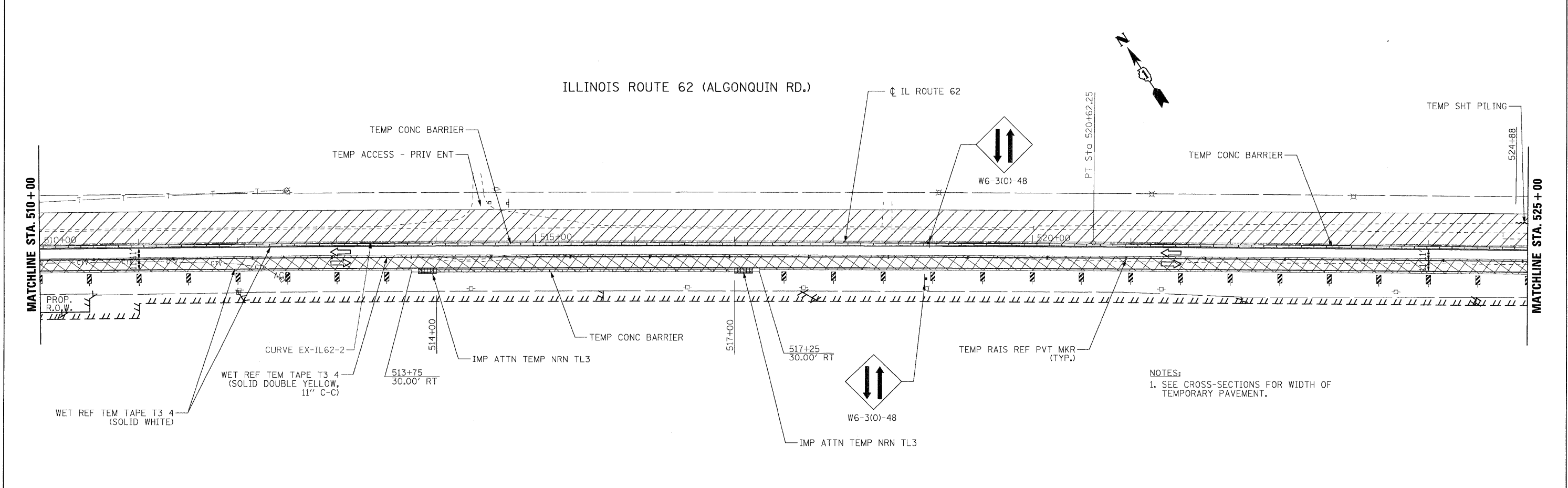
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	19
CONTRACT NO. 60135				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=50' SHEET NO. 1 OF 6 SHEETS STA. 465+00 TO STA. 495+00

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PLAN	SURVEYED	DATE
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	CHECKED	RJD	REVISED	-
	DATE	JUNE 30, 2011	REVISED	-

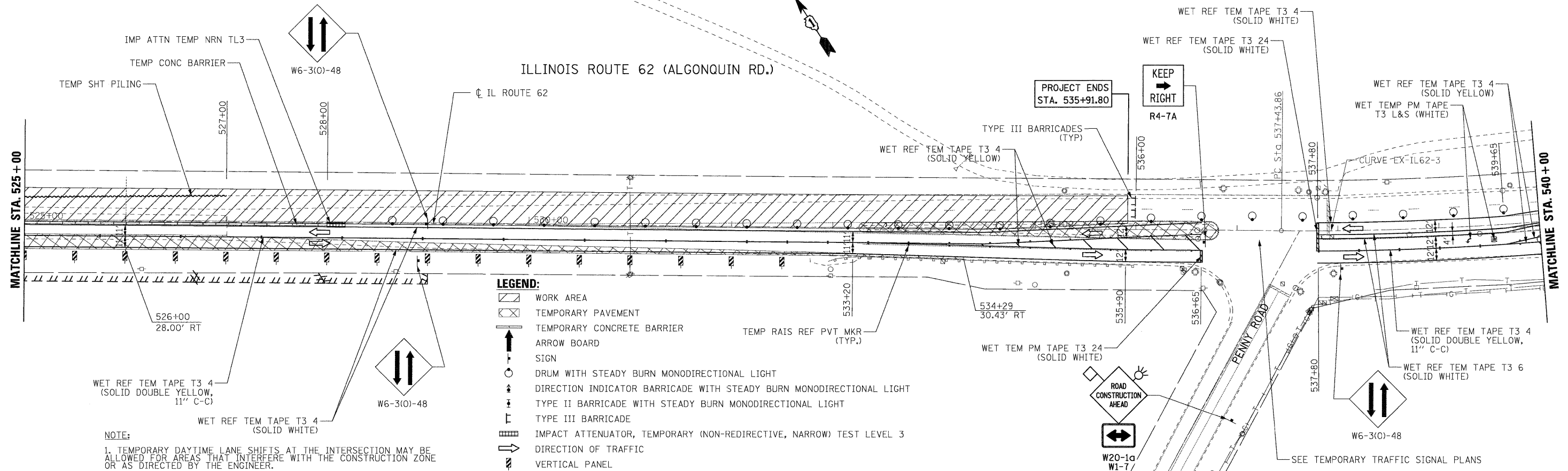
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
 SUGGESTED STAGE OF CONSTRUCTION & TRAFFIC CONTROL - STAGE 1**

SCALE: 1"=50' SHEET NO. 2 OF 6 SHEETS STA. 495+00 TO STA. 525+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	20
				CONTRACT NO. 60135
ILLINOIS FED. AID PROJECT				

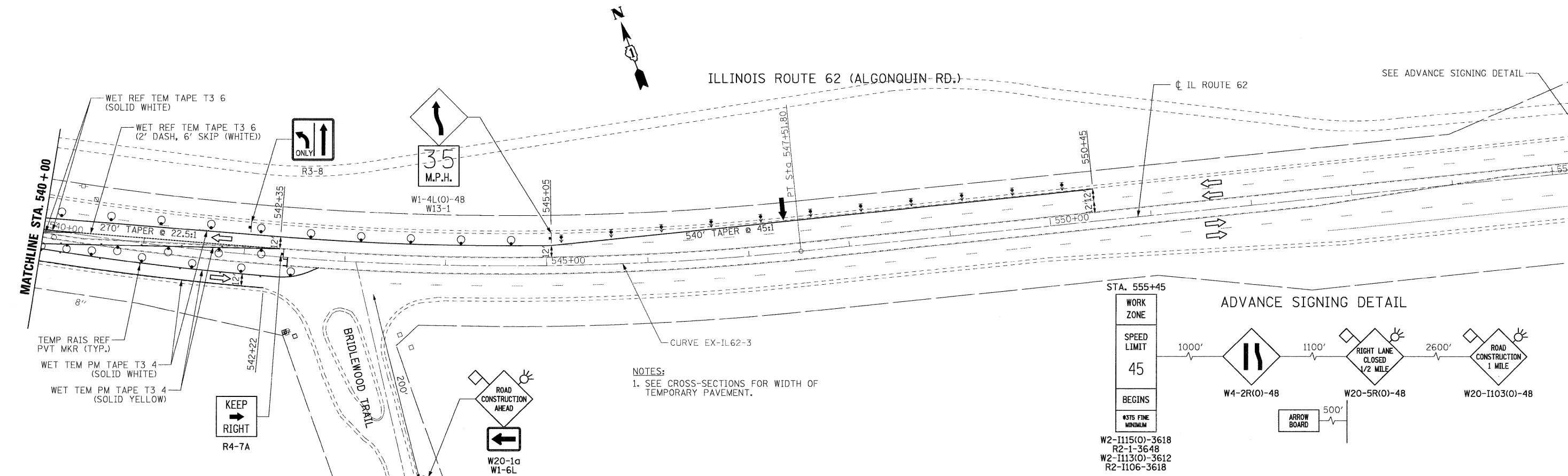
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	NO. 8	
	NO. 9	
	NO. 10	



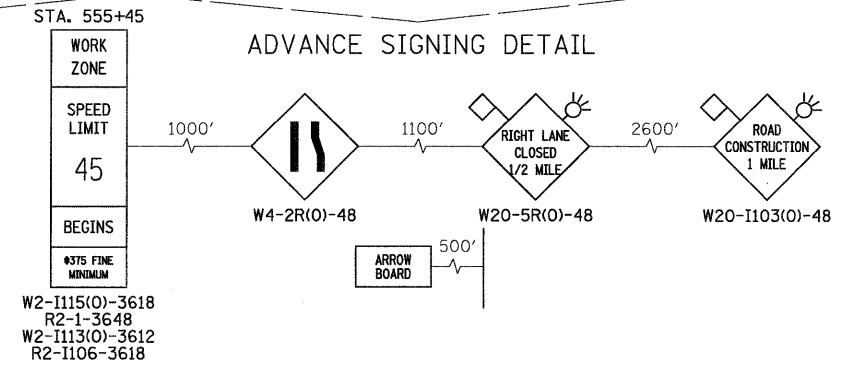
- LEGEND:**
- WORK AREA
 - TEMPORARY PAVEMENT
 - TEMPORARY CONCRETE BARRIER
 - ARROW BOARD
 - SIGN
 - DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
 - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - TYPE III BARRICADE
 - IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE, NARROW) TEST LEVEL 3
 - DIRECTION OF TRAFFIC
 - VERTICAL PANEL

NOTE:
1. TEMPORARY DAYTIME LANE SHIFTS AT THE INTERSECTION MAY BE ALLOWED FOR AREAS THAT INTERFERE WITH THE CONSTRUCTION ZONE OR AS DIRECTED BY THE ENGINEER.

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	NO. 1	
	NO. 2	
	NO. 3	
	NO. 4	
	NO. 5	
	NO. 6	
	NO. 7	
	NO. 8	
	NO. 9	
	NO. 10	



NOTES:
1. SEE CROSS-SECTIONS FOR WIDTH OF TEMPORARY PAVEMENT.



FILE NAME = ...ND160135-shr-staging1_03.dgn



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DATE	JUNE 30, 2011	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

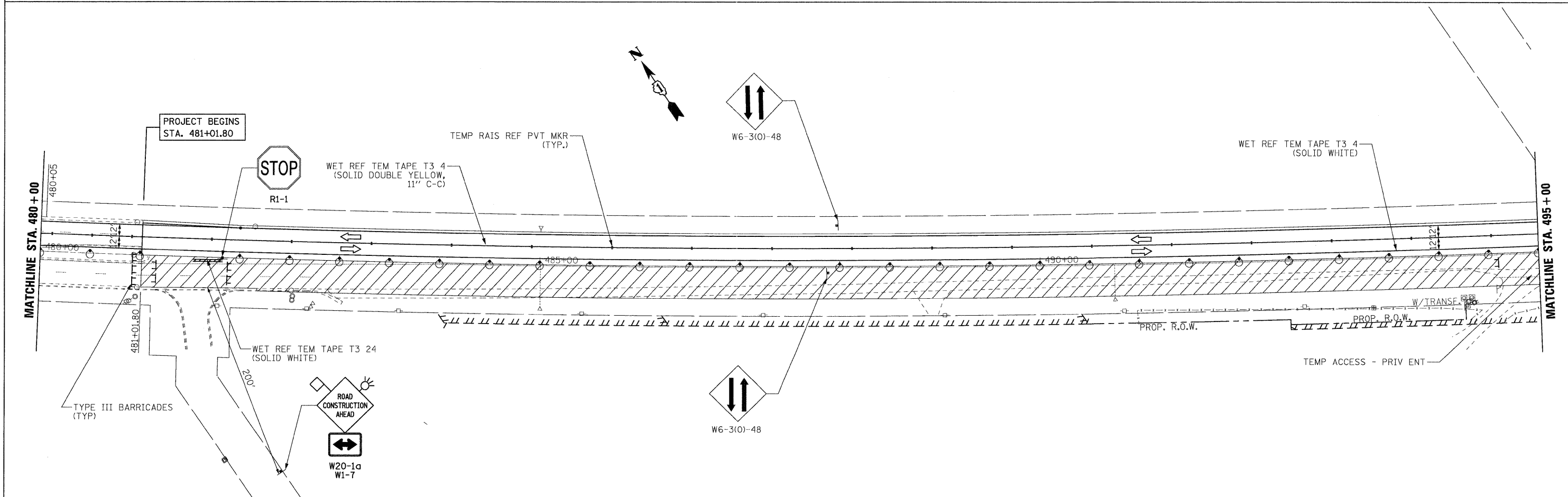
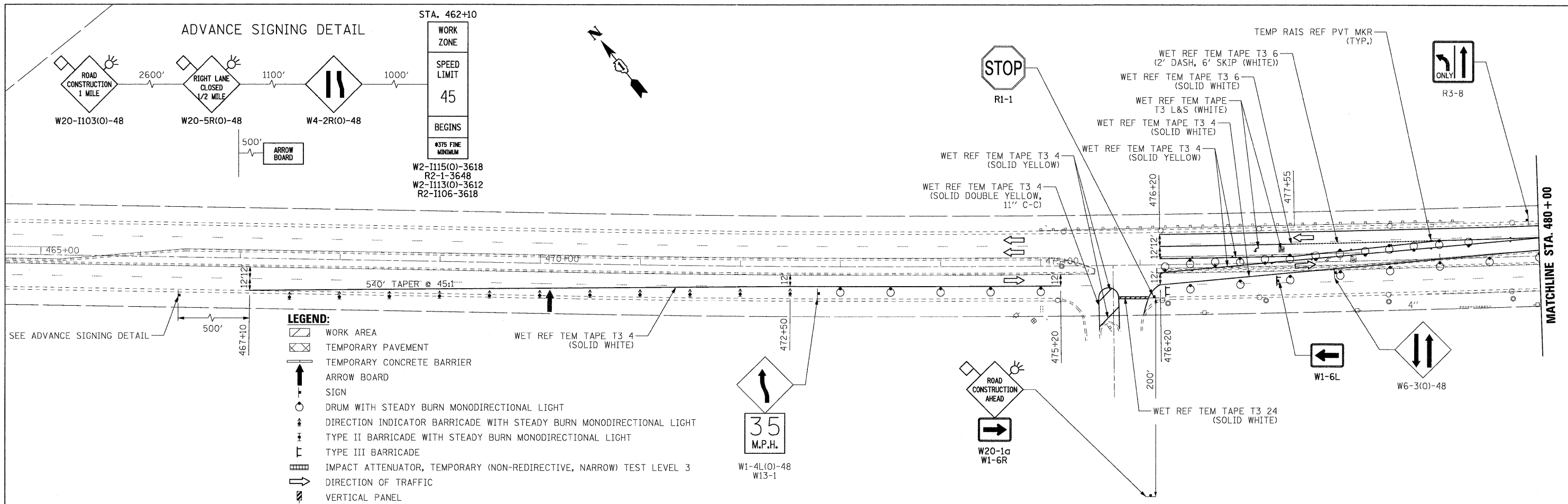
IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
SUGGESTED STAGE OF CONSTRUCTION & TRAFFIC CONTROL - STAGE 1

SCALE: 1"=50' SHEET NO. 3 OF 6 SHEETS STA. 525+00 TO STA. 550+45

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	21
				CONTRACT NO. 60135
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	BY	
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CHECKED	RJD	REVISED	-
DATE	JUNE 30, 2011	REVISED	-

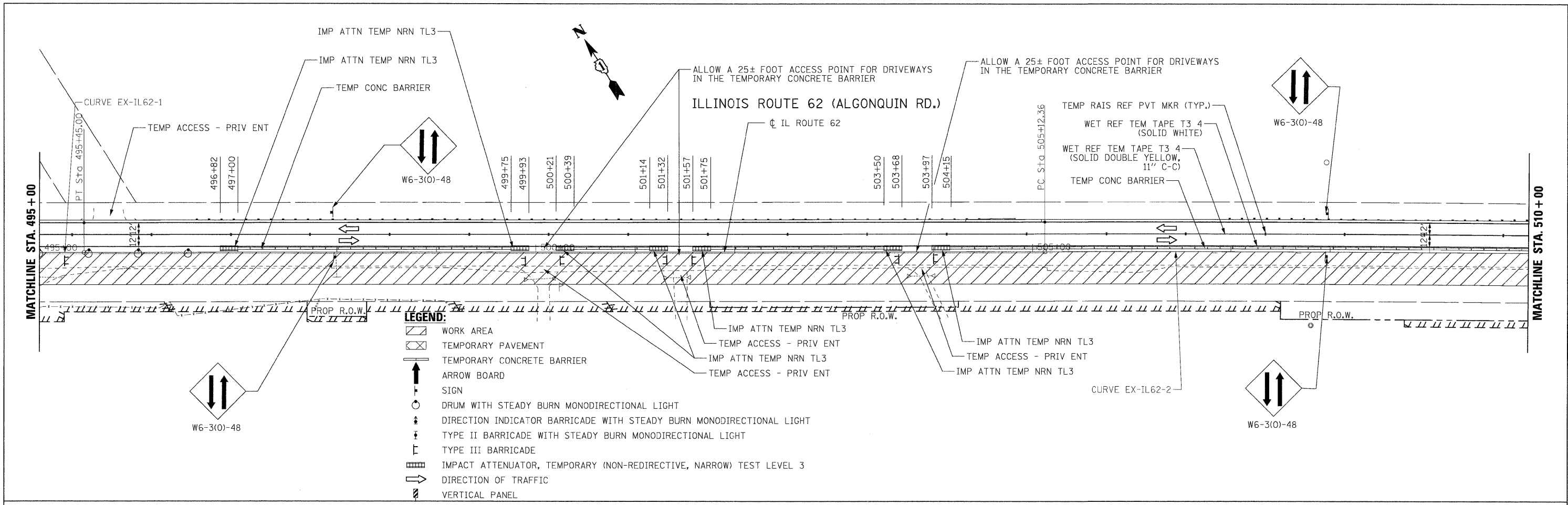
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
 SUGGESTED STAGE OF CONSTRUCTION & TRAFFIC CONTROL - STAGE 2**

SCALE: 1"=50' SHEET NO. 4 OF 6 SHEETS STA. 465+00 TO STA. 495+00

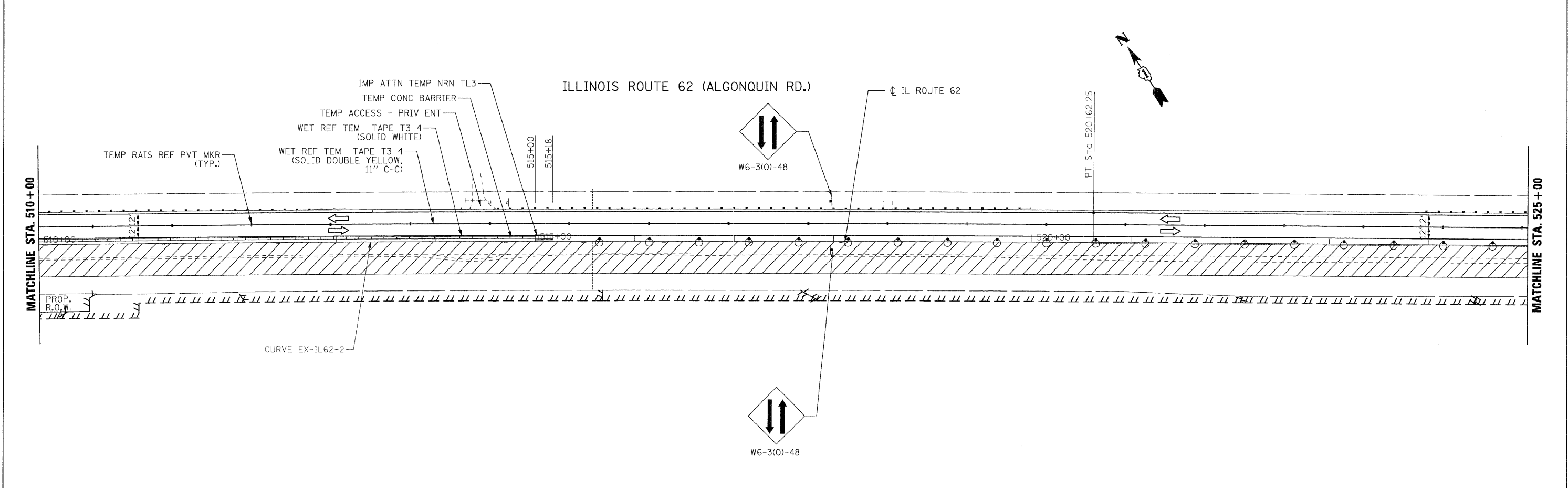
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	22
			CONTRACT NO. 60I35	
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	FLOWN	
	ALIGNED	
	CHECKED	
	RT. OF WAY CHECKED	
	NOTE BOOK	
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	CADD FILE NAME	



- LEGEND:**
- WORK AREA
 - TEMPORARY PAVEMENT
 - TEMPORARY CONCRETE BARRIER
 - ARROW BOARD
 - SIGN
 - DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
 - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - TYPE III BARRICADE
 - IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE, NARROW) TEST LEVEL 3
 - DIRECTION OF TRAFFIC
 - VERTICAL PANEL

PLAN	SURVEYED	DATE
	FLOWN	
	ALIGNED	
	CHECKED	
	RT. OF WAY CHECKED	
	NOTE BOOK	
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	CADD FILE NAME	



FILE NAME =
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	DATE	JUNE 30, 2011	REVISED	-

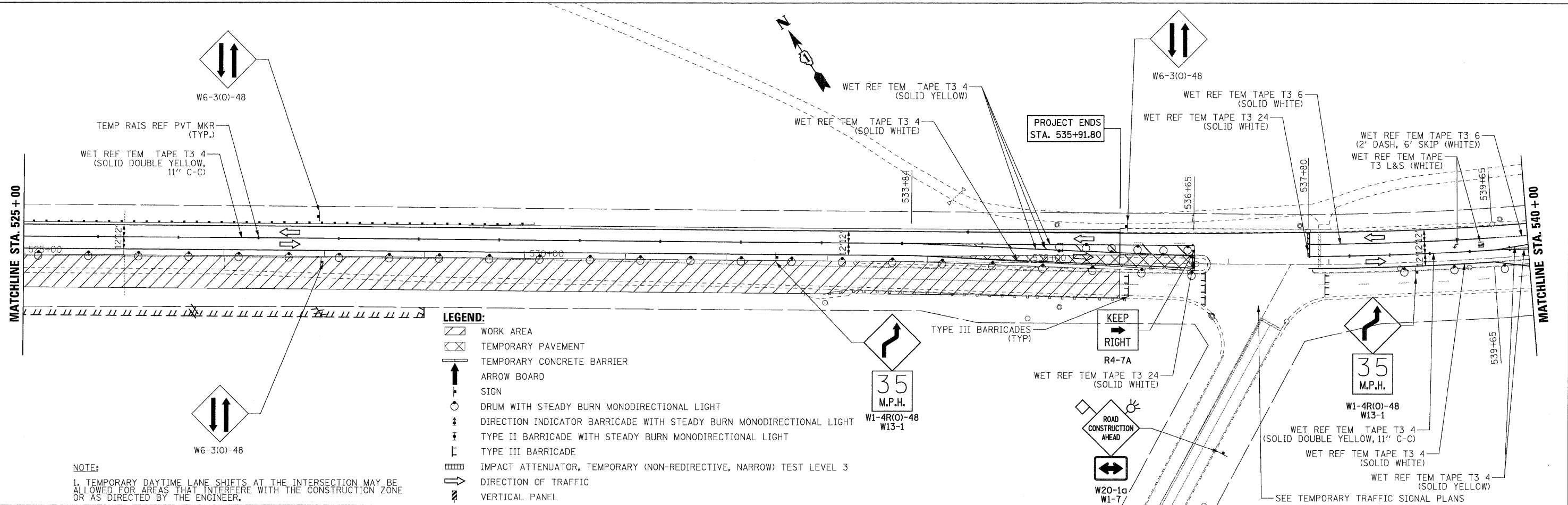
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
 SUGGESTED STAGE OF CONSTRUCTION & TRAFFIC CONTROL - STAGE 2**

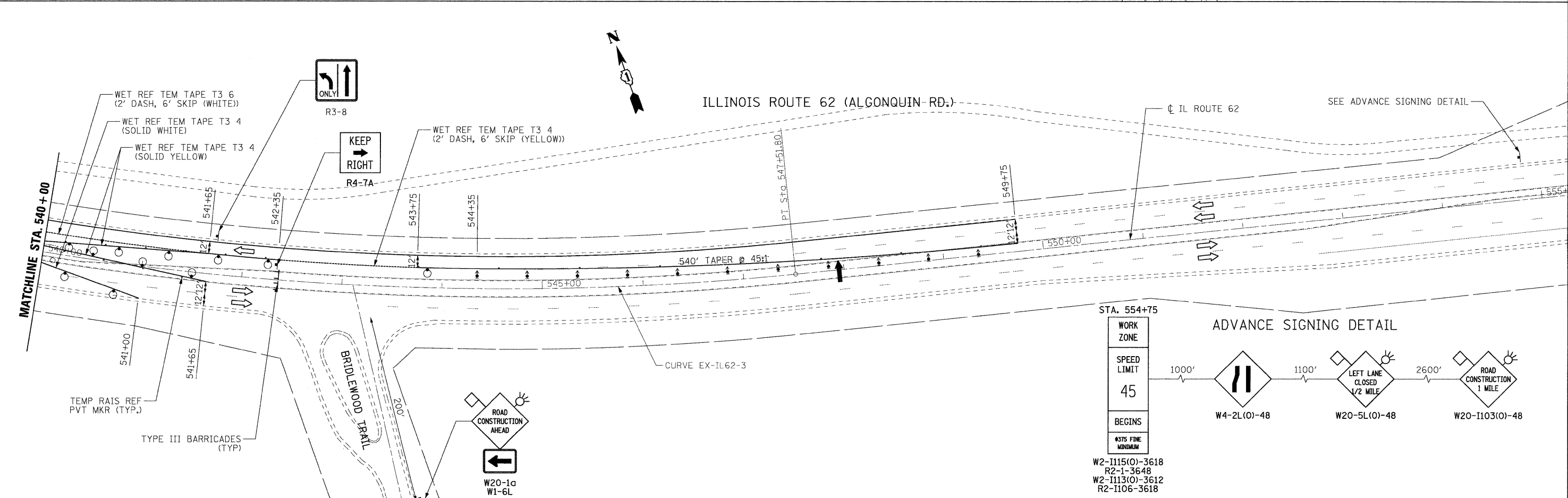
SCALE: 1"=50' SHEET NO. 5 OF 6 SHEETS STA. 495+00 TO STA. 525+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	23
CONTRACT NO. 60135				
[ILLINOIS] FED. AID PROJECT				

PLAN	SURVEYED	DATE
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PLAN	SURVEYED	DATE
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CHECKED	RJD	REVISED	-
DATE	JUNE 30, 2011	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
SUGGESTED STAGE OF CONSTRUCTION & TRAFFIC CONTROL - STAGE 2

SCALE: 1"=50' SHEET NO. 6 OF 6 SHEETS STA. 525+00 TO STA. 549+75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	24
CONTRACT NO. 60I35				ILLINOIS FED. AID PROJECT

EROSION CONTROL NOTES

1. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.
2. CONTRACTOR TO PREPARE AN EROSION AND SEDIMENT CONTROL STAGING PLAN FOR ALL DRAINAGE CROSSINGS, TO BE APPROVED BY THE ENGINEER.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL FOLLOW IEPA & IDOT CONSTRUCTION MEMORANDUM NO. 02-60.
4. ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "ILLINOIS PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL" AND THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY.
5. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
6. THE MAINTENANCE AND REPAIR OR REPLACEMENT OF EROSION CONTROL ITEMS, WHEN DIRECTED BY THE ENGINEER, WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED PAY ITEMS.
7. ALL STORM SEWER FACILITIES THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT. MUD AND SEDIMENT DEPOSITS SHALL BE REMOVED FROM THE ROADWAY AT THE END OF EACH WORK DAY BY SHOVELING AND/OR SWEEPING.
8. INLET FILTERS SHALL BE PLACED ON ALL CATCH BASINS, INLETS, AND MANHOLES WITH OPEN GRATES.
9. THE CONTRACTOR SHALL APPLY TEMPORARY EROSION CONTROL SEEDING TO ALL ERODIBLE BARE EARTH AREAS EVERY 7 DAYS AFTER THE EARTH IS EXPOSED.
APPLICATION RATE USED: 100 LB/ACRE
10. BROADCASTING OF THE SEED BY MACHINE, HAND METHODS, HYDRAULIC SEEDING OR OTHER METHODS APPROVED BY THE ENGINEER WILL BE ALLOWED FOR TEMPORARY EROSION CONTROL SEEDING.

DATE	BY	REVISION

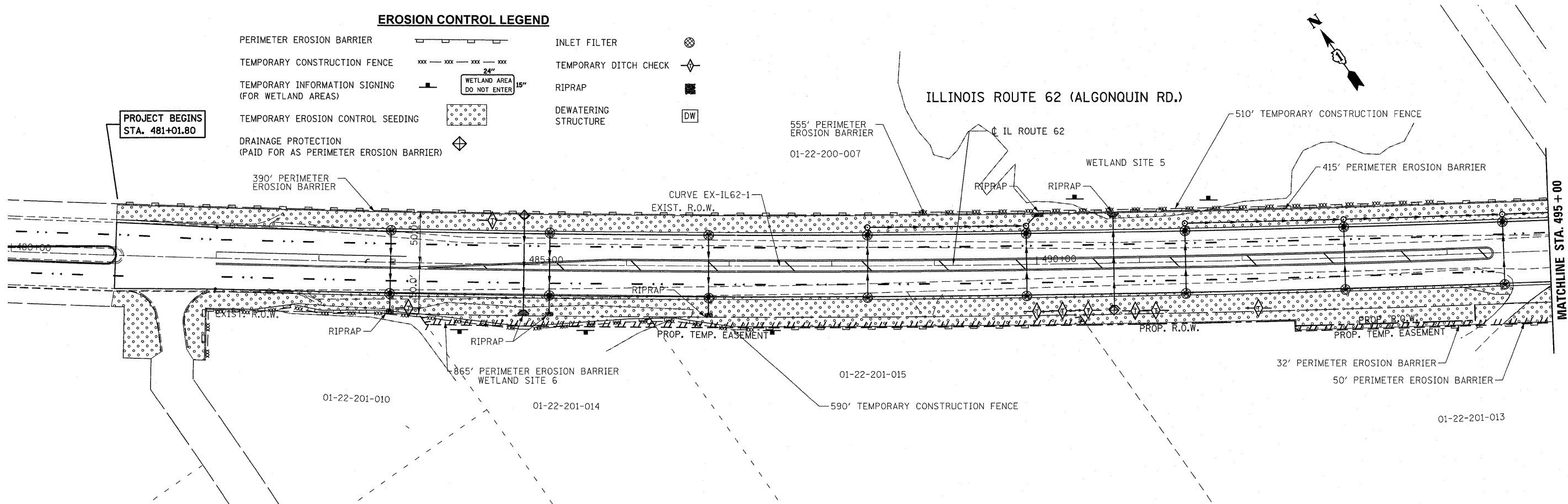
EROSION CONTROL NOTES (CONT.)

11. TOPSOIL AND FERTILIZER NUTRIENTS ARE NOT REQUIRED FOR TEMPORARY EROSION CONTROL SEEDING.
12. SEED BED PREPARATION WILL NOT BE REQUIRED FOR TEMPORARY EROSION CONTROL SEEDING IF THE SOIL IS IN A LOOSE CONDITION. LIGHT DISKING SHALL BE DONE IF THE SOIL IS HARD PACKED OR CAKED.
13. MULCH WILL NOT BE REQUIRED ON AREAS WHERE VEGETATIVE COVER PROVIDES ADEQUATE EROSION CONTROL.
14. MULCH, METHOD 2 (PROCEDURE 2) SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENT OF THE STANDARD SPECIFICATIONS AFTER TEMPORARY EROSION CONTROL SEEDING HAS BEEN COMPLETED ON AREAS WITH SLOPES STEEPER THAN 1:3 (V:H) THAT ARE TEMPORARY SEEDED BEFORE NOVEMBER 2.
15. EROSION CONTROL BLANKET SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AFTER TEMPORARY EROSION CONTROL SEEDING HAS BEEN COMPLETED ON ALL AREAS THAT ARE TEMPORARY SEEDED IN AREAS OF CONCENTRATED FLOW AS DIRECTED BY THE ENGINEER AT ANY TIME OF YEAR.
16. ALL TEMPORARY INFORMATION SIGNS, PERIMETER EROSION BARRIER AND TEMPORARY FENCE SHALL BE INSTALLED WITHIN THE TEMPORARY EASEMENT, PROPOSED RIGHT-OF-WAY OR EXISTING RIGHT-OF-WAY.
17. 'WETLANDS' SIGNS SHALL BE ATTACHED TO THE PERIMETER EROSION BARRIER POST AT EACH WETLAND. SIGNS ARE AVAILABLE FROM THE IDOT ROADSIDE DEVELOPMENT UNIT (847) 705-4171, AND INSTALLATION SHALL BE INCIDENTAL TO "TEMPORARY CONSTRUCTION FENCE".
18. EROSION CONTROL BLANKET SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AFTER TEMPORARY EROSION CONTROL SEEDING HAS BEEN COMPLETED ON ALL AREAS WITH SLOPES STEEPER THAN 1:3 (V:H) THAT ARE TEMPORARY SEEDED ON OR AFTER NOVEMBER 2.
19. PER ARTICLE 542 OF THE STANDARD SPECIFICATIONS THE WATER DIVERSION METHOD USED BY THE CONTRACTOR FOR CONSTRUCTING CULVERTS SHALL BE APPROVED BY THE ENGINEER PRIOR TO WORK BEING PERFORMED.

DATE	BY	REVISION

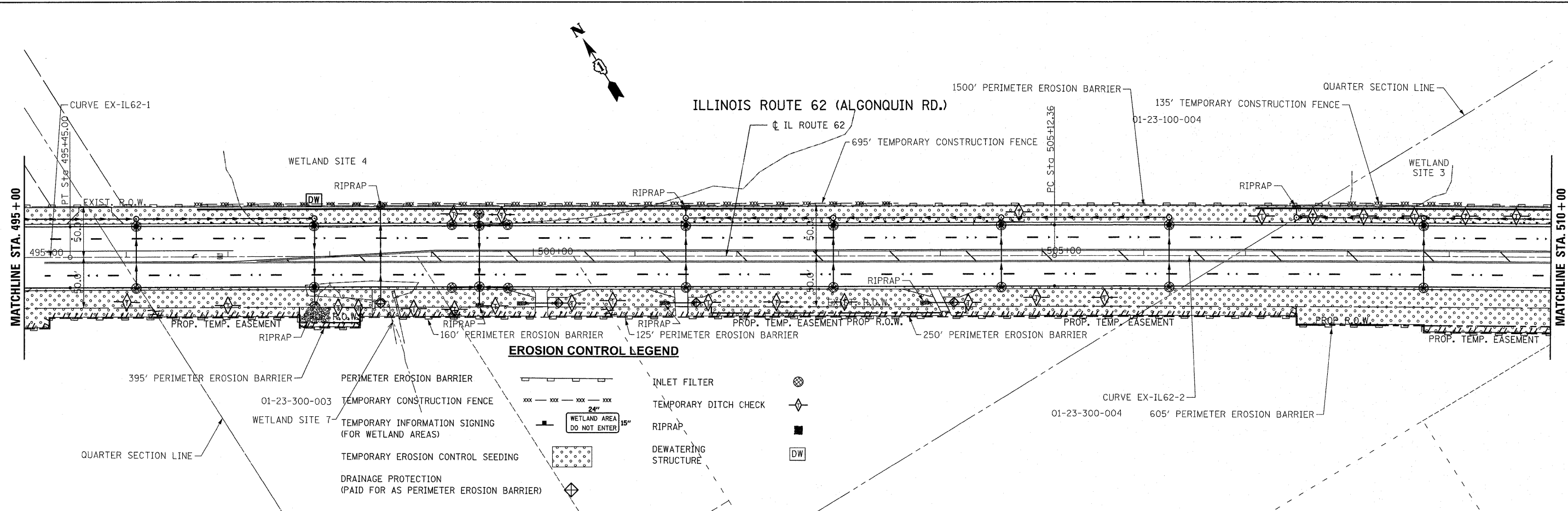
EROSION CONTROL LEGEND

- | | | | |
|---|--|-----------------------|--|
| PERIMETER EROSION BARRIER | | INLET FILTER | |
| TEMPORARY CONSTRUCTION FENCE | | TEMPORARY DITCH CHECK | |
| TEMPORARY INFORMATION SIGNING (FOR WETLAND AREAS) | | RIPRAP | |
| TEMPORARY EROSION CONTROL SEEDING | | DEWATERING STRUCTURE | |
| DRAINAGE PROTECTION (PAID FOR AS PERIMETER EROSION BARRIER) | | | |

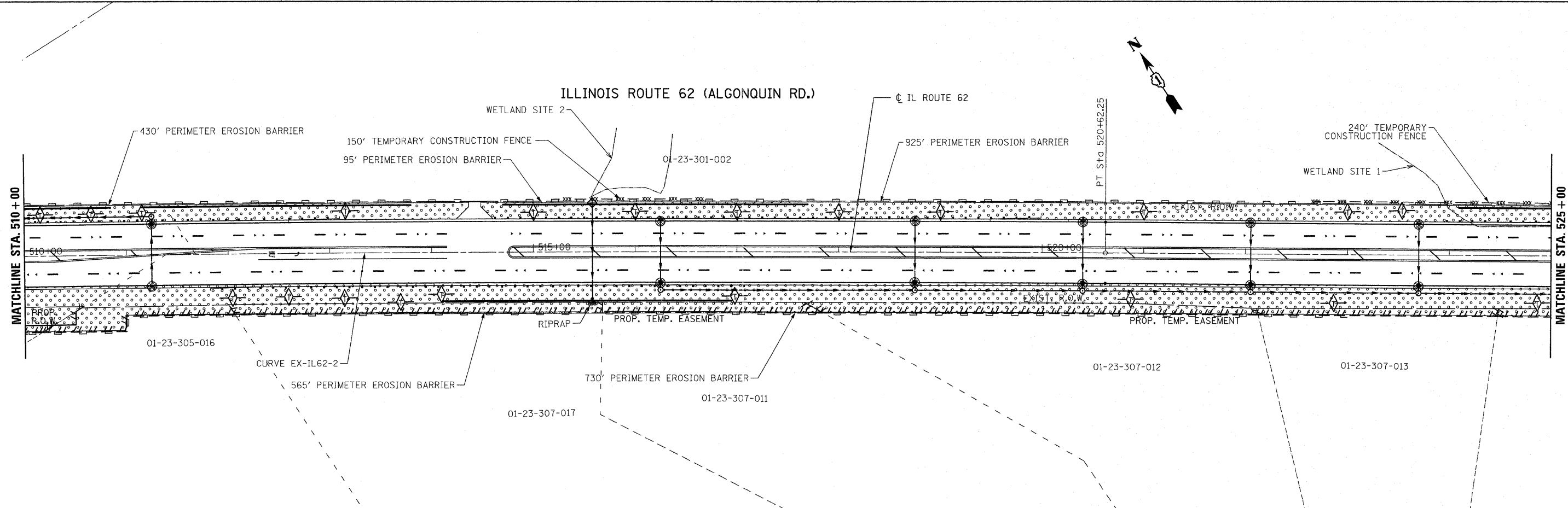


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DATE		JUNE 30, 2011	REVISOR			SCALE: 1"=50'				SHEET NO. 1 OF 3 SHEETS		STA. 481+01.80 TO STA. 495+00		CONTRACT NO. 60135
DRAWN		SMO	REVISOR			ILLINOIS FED. AID PROJECT								
CHECKED		RJD	REVISOR											
			REVISOR											

DATE	
BY	
SURVEYED	
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FILE NAME	



FILE NAME =
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DRAWN	SMQ	REVISED	-	
CHECKED	RJD	REVISED	-	
DATE	JUNE 30, 2011	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

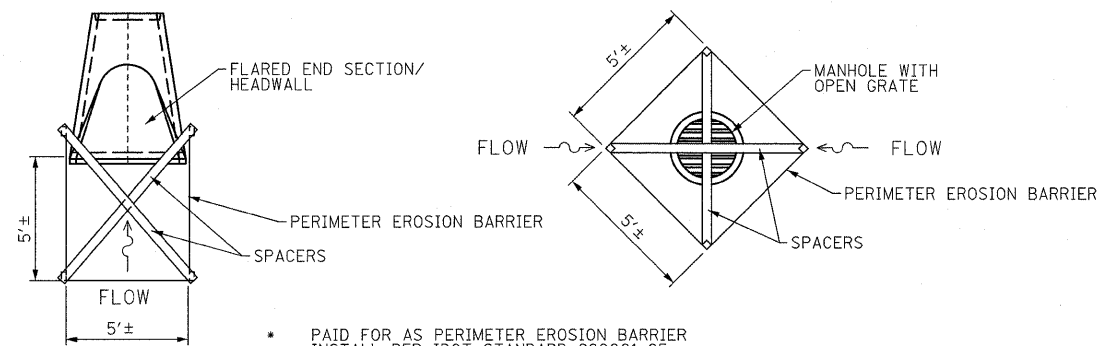
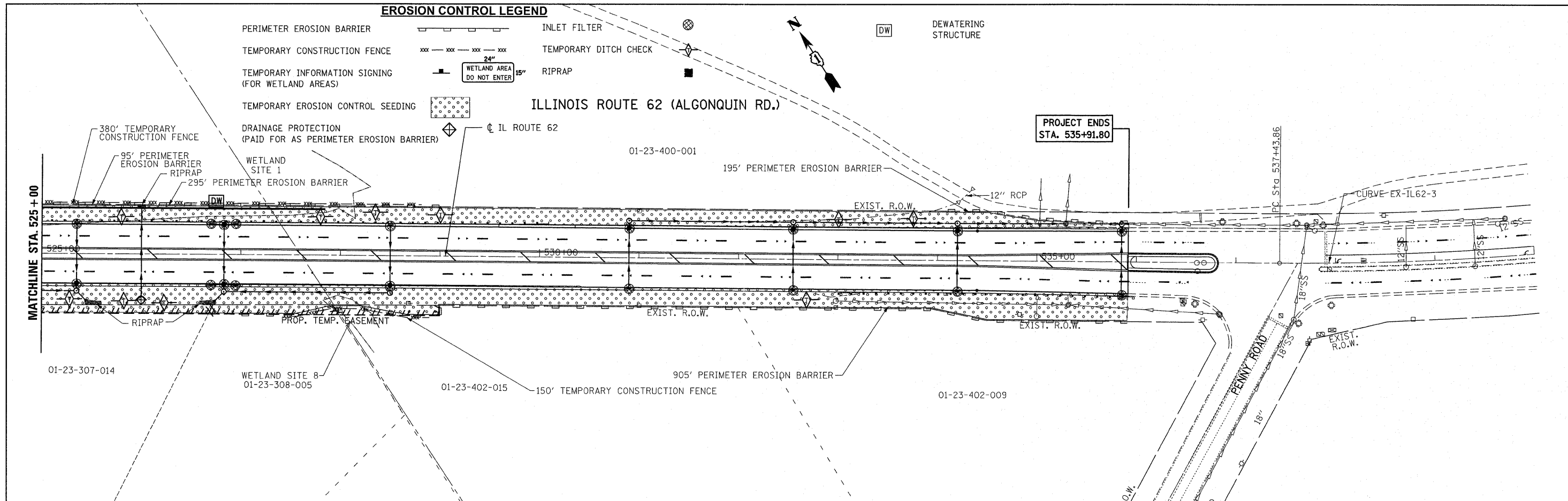
IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=50' SHEET NO. 2 OF 3 SHEETS STA. 495+00 TO STA. 525+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	26
CONTRACT NO. 60135				
ILLINOIS FED. AID PROJECT				

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

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



** PAID FOR AS PERIMETER EROSION BARRIER
 ** INSTALL PER IDOT STANDARD 280001-05
DRAINAGE PROTECTION DETAILS
 N.T.S.

FILE NAME = ...\\D160135-shr-eros_03.dgn



DESIGNED	SEF	REVISED	-	10/21/2011	N.W.S.
DRAWN	SMQ	REVISED	-		
CHECKED	RJD	REVISED	-		
DATE	JUNE 30, 2011	REVISED	-		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=50' SHEET NO. 3 OF 3 SHEETS STA. 525+00 TO STA. 535+91.80

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	27
CONTRACT NO. 60I35				
ILLINOIS FED. AID PROJECT				

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

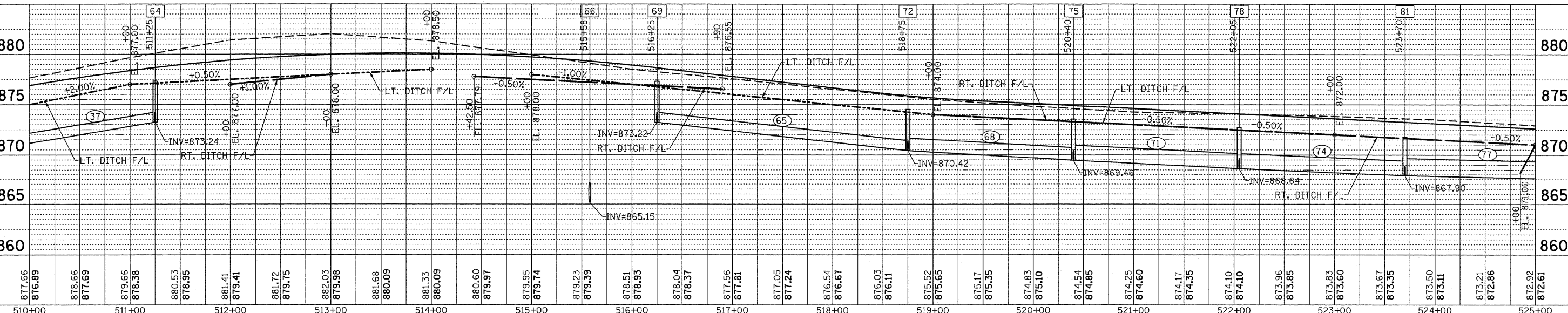
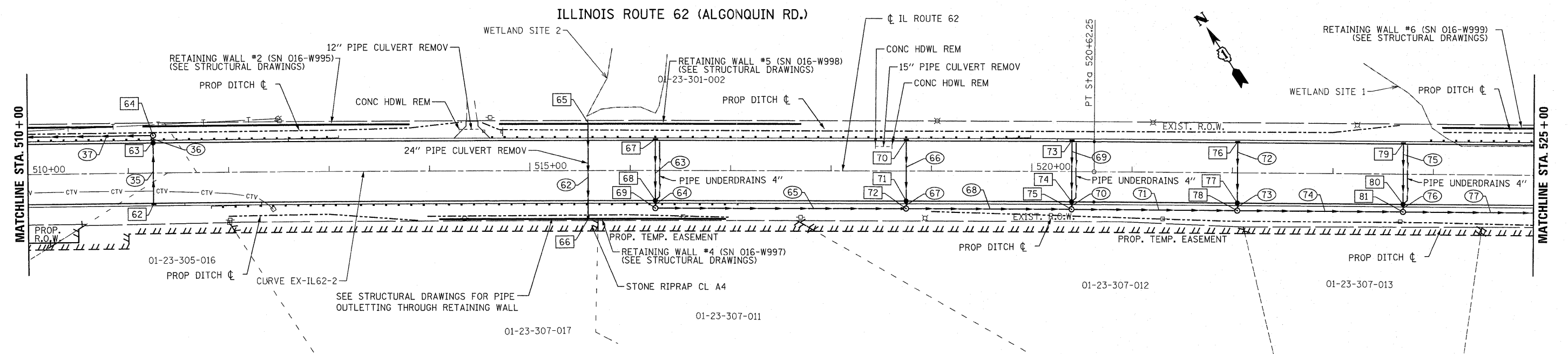
DATE BY
 SURVEYED BY
 GRADES CHECKED
 NOTE BOOK NO.
 STRUCTURE NO.

STRUCTURE TABLE										
NO.	STATION	OFFSET	TYPE	FRAME	FST	RIM	N. INV.	E. INV.	S. INV.	W. INV.
62	511+25	30.0' RT	INL-A	T-24	*	878.08	873.58			
63	511+25	30.0' LT	CB-A4	T-24	*	878.08	873.28		873.28	
64	511+25	37.5' LT	MH-A4	1-CL	*	877.3			873.24	873.24
65	515+58	48.0' LT	RWALL	--	--				865.46	
66	515+58	48.0' RT	RWALL	--	--		865.15			
67	516+25	30.0' LT	INL-A	T-24	*	878.06			873.56	
68	516+25	30.0' RT	CB-A4	T-24	*	878.06	873.26		873.26	
69	516+25	37.5' RT	MH-A4	1-CL	*	877.3	873.22	873.22		
70	518+75	30.0' LT	INL-A	T-24	*	875.26			870.76	
71	518+75	30.0' RT	CB-A4	T-24	*	875.26	870.46		870.46	

STRUCTURE TABLE										
NO.	STATION	OFFSET	TYPE	FRAME	FST	RIM	N. INV.	E. INV.	S. INV.	W. INV.
72	518+75	37.5' RT	MH-A4	1-CL	*	874.5	870.42	870.42		870.42
73	520+40	30.0' LT	INL-A	T-24	*	874.30			869.80	
74	520+40	30.0' RT	CB-A4	T-24	*	874.30	869.50		869.50	
75	520+40	37.5' RT	MH-A4	1-CL	*	873.6	869.46	869.46		869.46
76	522+05	30.0' LT	INL-A	T-24	*	873.48			868.98	
77	522+05	30.0' RT	CB-A4	T-24	*	873.48	868.68		868.68	
78	522+05	37.5' RT	MH-A4	1-CL	*	872.7	868.64	868.64		868.64
79	523+70	30.0' LT	INL-A	T-24	*	872.66			868.20	
80	523+70	30.0' RT	CB-A4	T-24	*	872.66	867.92		867.92	
81	523+70	37.5' RT	MH-A5	1-CL	*	871.8	867.90	867.90		867.90

PIPE TABLE									
NO.	TYPE	UPSTREAM STATION	DOWNSTREAM STATION	MAT.	SIZE	SLOPE	LIN. FT.	TBF (CYD)	
35	SS-T1-A	511+25 30.0 RT	511+25 30.0 LT	RCP	12"	0.50%	57'	13	
36	SS-T1-A	511+25 30.0 LT	511+25 37.5 LT	RCP	12"	1.10%	4'	1	
37	SS-T1-A	511+25 37.5 LT	508+75 37.5 LT	RCP	12"	1.70%	246'	--	
62	PC-T2-A	515+58 48.0 LT	515+58 48.0 RT	RCP	24"	0.32%	96'	142	
63	SS-T1-A	516+25 30.0 LT	516+25 30.0 RT	RCP	12"	0.50%	57'	13	
64	SS-T1-A	516+25 30.0 RT	516+25 37.5 RT	RCP	12"	1.10%	4'	1	
65	SS-T1-A	516+25 37.5 RT	518+75 37.5 RT	RCP	12"	1.10%	246'	--	
66	SS-T1-A	518+75 30.0 LT	518+75 30.0 RT	RCP	12"	0.50%	57'	13	
67	SS-T1-A	518+75 30.0 RT	518+75 37.5 RT	RCP	12"	1.10%	4'	1	
68	SS-T1-A	518+75 37.5 RT	520+40 37.5 RT	RCP	15"	0.60%	161'	--	

PIPE TABLE									
NO.	TYPE	UPSTREAM STATION	DOWNSTREAM STATION	MAT.	SIZE	SLOPE	LIN. FT.	TBF (CYD)	
69	SS-T1-A	520+40 30.0 LT	520+40 30.0 RT	RCP	12"	0.50%	57'	13	
70	SS-T1-A	520+40 30.0 RT	520+40 37.5 RT	RCP	12"	1.10%	4'	1	
71	SS-T1-A	520+40 37.5 RT	522+05 37.5 RT	RCP	18"	0.50%	161'	--	
72	SS-T1-A	522+05 30.0 LT	522+05 30.0 RT	RCP	12"	0.50%	57'	13	
73	SS-T1-A	522+05 30.0 RT	522+05 37.5 RT	RCP	12"	1.10%	4'	1	
74	SS-T1-A	522+05 37.5 RT	523+70 37.5 RT	RCP	18"	0.46%	161'	--	
75	SS-T1-A	523+70 30.0 LT	523+70 30.0 RT	RCP	12"	0.50%	57'	13	
76	SS-T1-A	523+70 30.0 RT	523+70 37.5 RT	RCP	12"	0.70%	3'	1	
77	SS-T1-A	523+70 37.5 RT	525+35 37.5 RT	RCP	21"	0.25%	160'	--	



FILE NAME = ...\\016135\shd-drawn_03.dgn	DESIGNED NS DRAWN NS CHECKED SF DATE JUNE 30, 2011	REVISED - 10/21/2011 N.W.S. REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD. DRAINAGE & UTILITIES PLAN AND PROFILE	F.A.P. RT. 339 SECTION 116 Y-1-R-1 COUNTY COOK TOTAL SHEETS 122 SHEET NO. 30	CONTRACT NO. 60I35 ILLINOIS FED. AID PROJECT
			SCALE: 1"=50'	SHEET NO. 3 OF 4 SHEETS	STA. 510+00 TO STA. 525+00	

STRUCTURE TABLE

Table with 10 columns: NO., STATION, OFFSET, TYPE, FRAME, FST, RIM, N. INV., E. INV., S. INV., W. INV. Contains structural data for stations 525+00 to 528+50.

STRUCTURE TABLE

Table with 10 columns: NO., STATION, OFFSET, TYPE, FRAME, FST, RIM, N. INV., E. INV., S. INV., W. INV. Contains structural data for stations 528+50 to 535+85.

PIPE TABLE

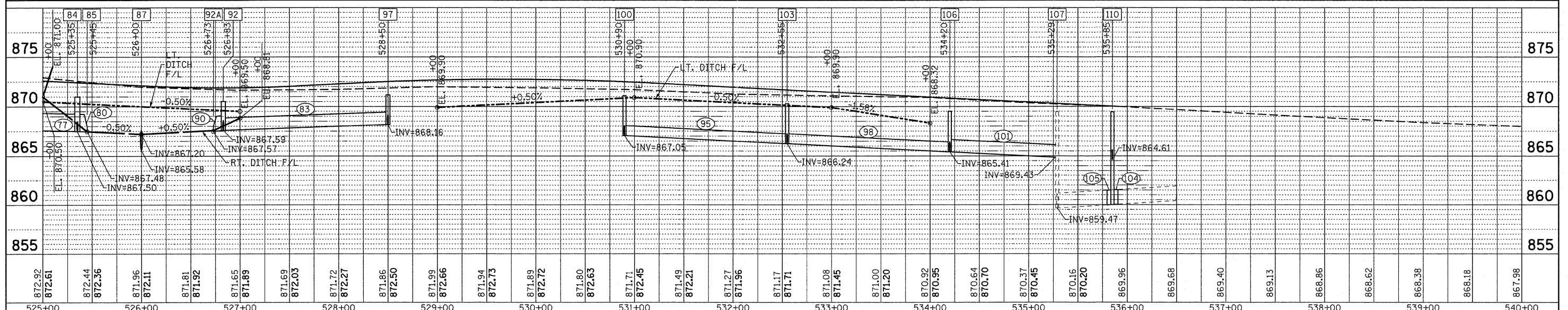
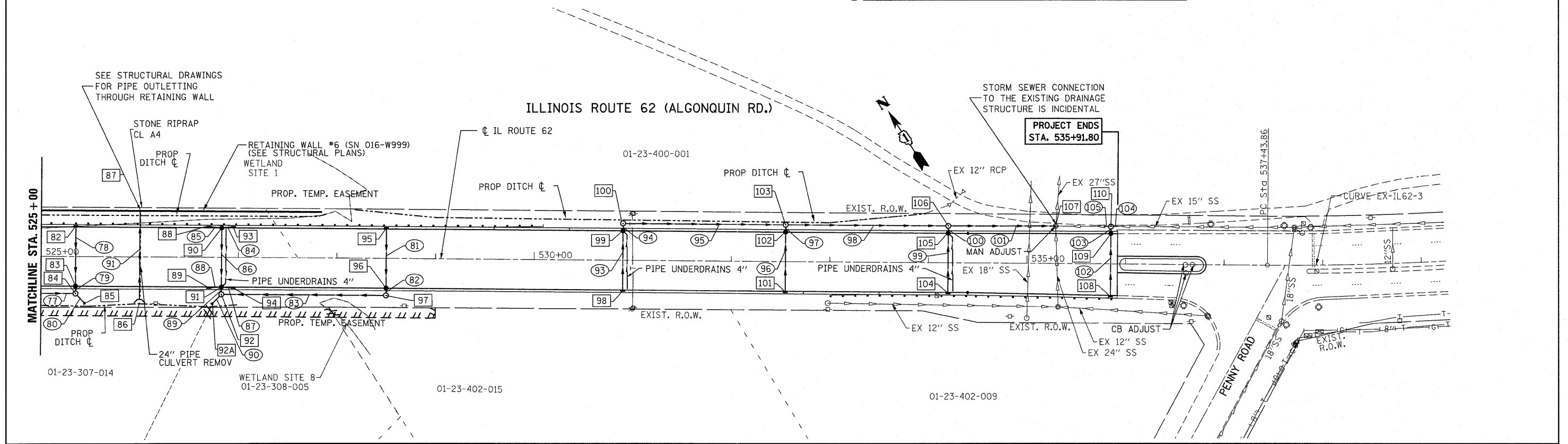
Table with 7 columns: NO., TYPE, UPSTREAM STATION, DOWNSTREAM STATION, MAT., SIZE, SLOPE, LIN. FT., TBF (CYD). Contains pipe data for stations 523+70 to 526+00.

PIPE TABLE

Table with 7 columns: NO., TYPE, UPSTREAM STATION, DOWNSTREAM STATION, MAT., SIZE, SLOPE, LIN. FT., TBF (CYD). Contains pipe data for stations 526+00 to 535+91.

Vertical table with columns: PLAN, DATE, BY, SERVED, ALIGNED, CHECKED, FILE NAME.

Vertical table with columns: PROFILE, DATE, BY, SERVED, GRADES, CHECKED, NOTED, STRUCTURE, NOTATIONS, GRID.



FILE NAME = ...0160135-sht-drain_04.dgn



Design and revision table with columns: DESIGNED, DRAWN, CHECKED, DATE and REVISED, with dates and initials.

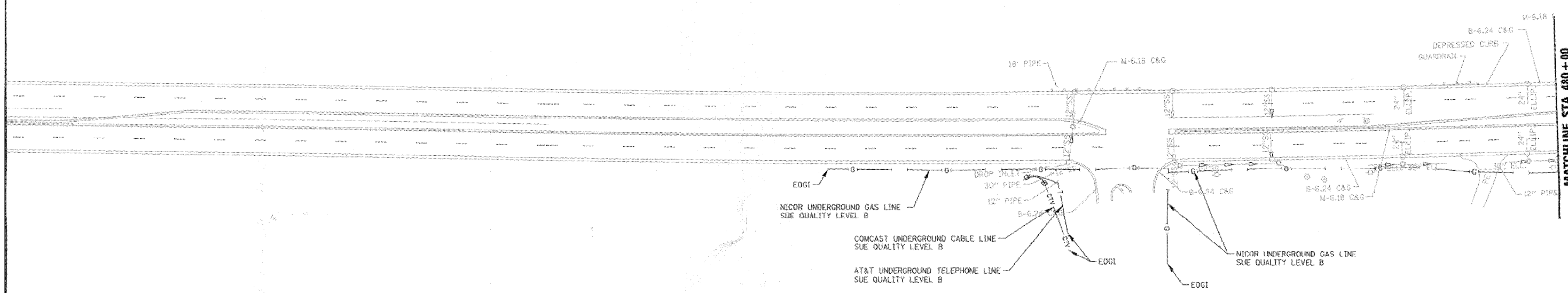
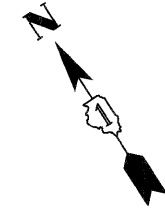
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD. DRAINAGE & UTILITIES PLAN AND PROFILE. SCALE: 1"=50'

Project information table including F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO., and ILLINOIS/FED. AID PROJECT.

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	RT. OF WAY CHECKED	
	CADD FILE NAME	
	NO.	

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	RT. OF WAY CHECKED	
	CADD FILE NAME	
	NO.	



MATCHLINE STA. 480+00

STATE OF ILLINOIS)
 COUNTY OF COOK) S.S.

UTILITIES SHOWN HEREON HAVE BEEN INVESTIGATED BY
 ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY
 LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN
 PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 7TH OF JULY AND
 14TH DAY OF JULY, A.D., 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL
 THIS 5TH DAY OF AUGUST A.D., 2010. CHICAGO, IL.



Steven M. Rienks
 STEVEN M. RIENKS - ILLINOIS PROFESSIONAL
 ENGINEER NUMBER 62-044619
 MY LICENSE EXPIRES 11/30/2011

AMERICAN
 SURVEYING & ENGINEERING, P.C.
 SURVEYORS - ENGINEERS
 GEODESISTS - MAPPING SCIENTISTS
 Chicago: 312-277-2000 / Fax 312-277-2002
 Dixon: 815-288-6231 / Fax 815-288-6277
 Aurora: 603-897-4105 / Fax 630-897-4121
 Illinois Professional Design Firm No. 184-003192

LEGEND

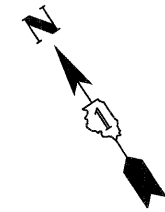
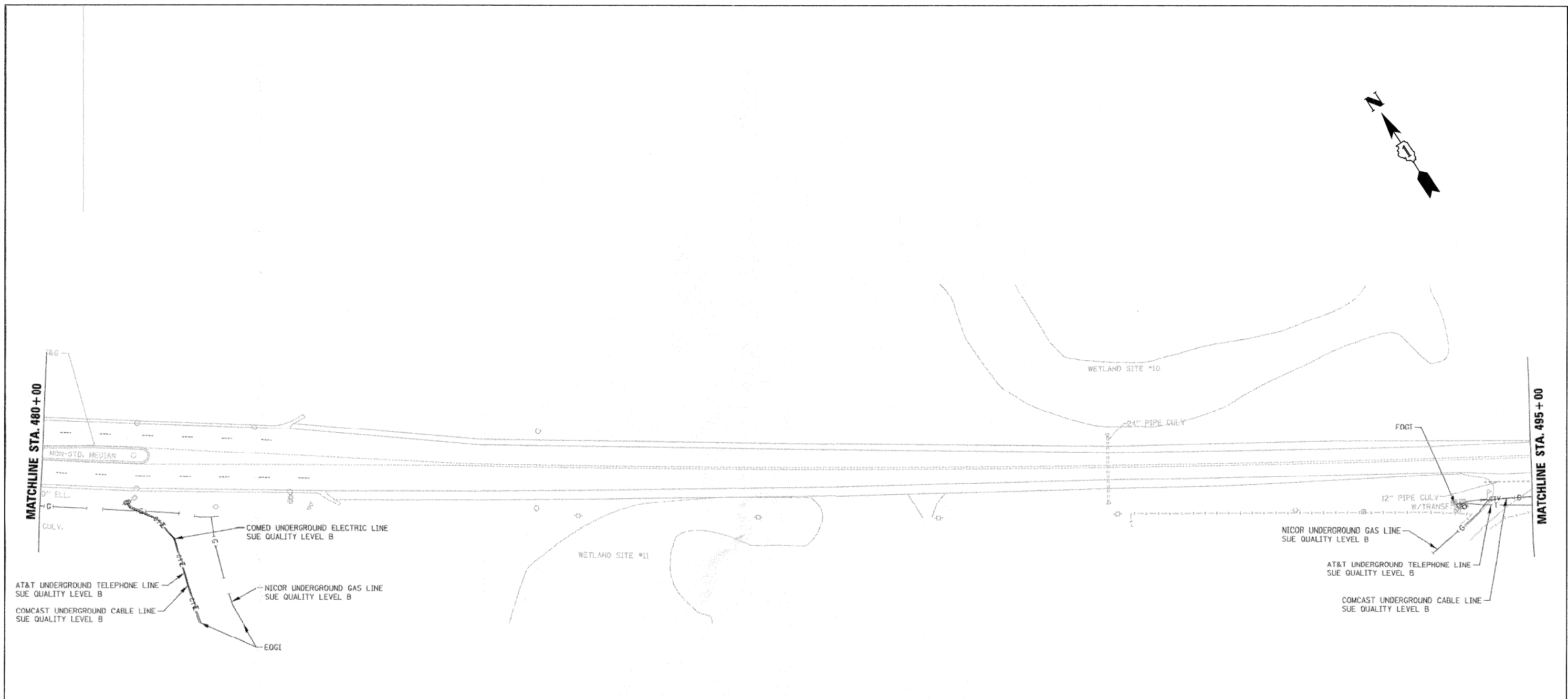
—T—	EXISTING UNDERGROUND TELEPHONE
—W—	EXISTING UNDERGROUND WATER
—E—	EXISTING UNDERGROUND ELECTRIC
—G—	EXISTING UNDERGROUND GAS
—CTV—	EXISTING UNDERGROUND CABLE TV
EOGI	END OF GEOPHYSICAL INFORMATION

FILE NAME = ...\\D160135-1001 SUE_01.dgn	DESIGNED RJD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD. SUE INVESTIGATION OF UNDERGROUND UTILITIES		F.A.P. RTE. 339	SECTION 116 Y-1-R-1	COUNTY COOK	TOTAL SHEETS 122	SHEET NO. 32		
	DRAWN GEW	REVISED -		SCALE: 1"=50'		SHEET NO. 1 OF 6 SHEETS	STA.	TO STA. 480+00	CONTRACT NO. 60135			
	CHECKED TWL	REVISED -		[ILLINOIS] FED. AID PROJECT								
	DATE JUNE 30, 2011	REVISED -										



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO. _____		
	RT. OF WAY CHECKED		
	NO. _____		
	CADD FILE NAME		

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	NO. _____		
	RT. OF WAY CHECKED		
	NO. _____		
	CADD FILE NAME		



STATE OF ILLINOIS)
COUNTY OF COOK) S.S.

UTILITIES SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 7TH OF JULY AND 14TH DAY OF JULY, A.D., 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 5TH DAY OF AUGUST A.D., 2010. CHICAGO, IL.



Steven M. Riems
STEVEN M. RIEMS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619
MY LICENSE EXPIRES 11/30/2011

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GEODESISTS - MAPPING SCIENTISTS
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Dixon: 815-288-6231 / Fax 815-288-6277
Aurora: 603-897-4105 / Fax 630-897-4121
Illinois Professional Design Firm No. 184-003192

LEGEND

—T—	EXISTING UNDERGROUND TELEPHONE
—W—	EXISTING UNDERGROUND WATER
—E—	EXISTING UNDERGROUND ELECTRIC
—G—	EXISTING UNDERGROUND GAS
—CTV—	EXISTING UNDERGROUND CABLE TV
EOGI	END OF GEOPHYSICAL INFORMATION

FILE NAME =
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	DESIGNED RJD	REVISED -
	DRAWN GEW	REVISED -
	CHECKED TWL	REVISED -
	DATE JUNE 30, 2011	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

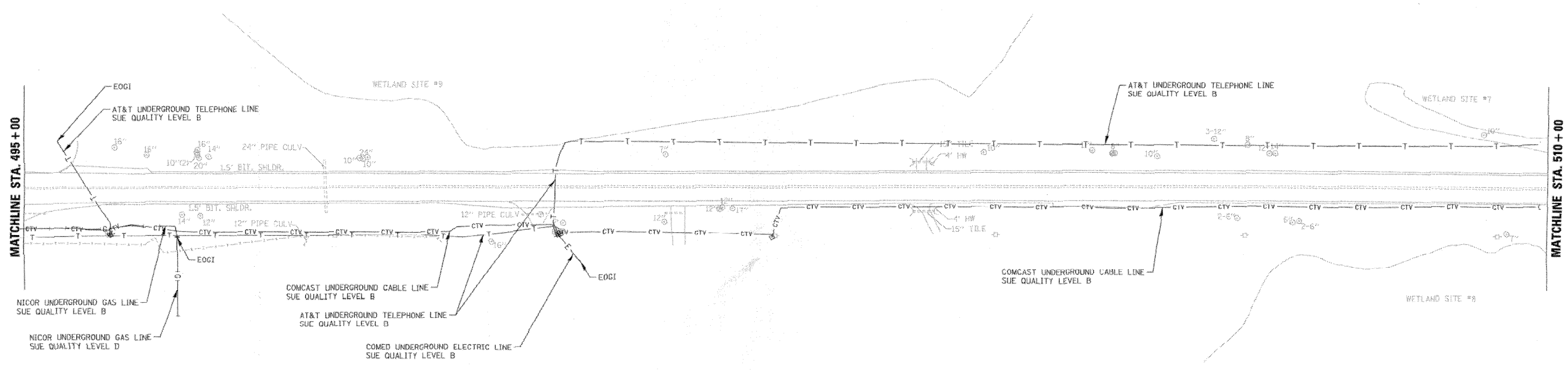
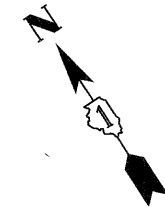
**IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
SUE INVESTIGATION OF UNDERGROUND UTILITIES**

SCALE: 1"=50' SHEET NO. 2 OF 6 SHEETS STA. 480+00 TO STA. 495+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	33
				CONTRACT NO. 60135
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	REVISIONS	
	BY	
	DATE	
	NO.	

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	REVISIONS	
	BY	
	DATE	
	NO.	



STATE OF ILLINOIS)
COUNTY OF COOK) S.S.

UTILITIES SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 7TH OF JULY AND 14TH DAY OF JULY, A.D., 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 5TH DAY OF AUGUST A.D., 2010. CHICAGO, IL.

STEVEN M. RIENKS
062-044619
ILLINOIS PROFESSIONAL ENGINEER
MY LICENSE EXPIRES 11/30/2011

Steve M. Rienks
STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619
MY LICENSE EXPIRES 11/30/2011

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Dixon: 815-288-6231 / Fax 815-288-6277
Aurora: 630-937-4105 / Fax 630-937-4121
Illinois Professional Design Firm No. 184-003192

LEGEND

—T—	EXISTING UNDERGROUND TELEPHONE
—W—	EXISTING UNDERGROUND WATER
—E—	EXISTING UNDERGROUND ELECTRIC
—G—	EXISTING UNDERGROUND GAS
—CTV—	EXISTING UNDERGROUND CABLE TV
EOGI	END OF GEOPHYSICAL INFORMATION

FILE NAME =
...\\D160135-100T SUE_03.dgn



DESIGNED	RJD	REVISED	-
DRAWN	GEW	REVISED	-
CHECKED	TWL	REVISED	-
DATE	JUNE 30, 2011	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

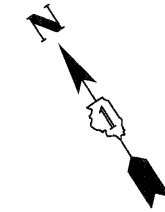
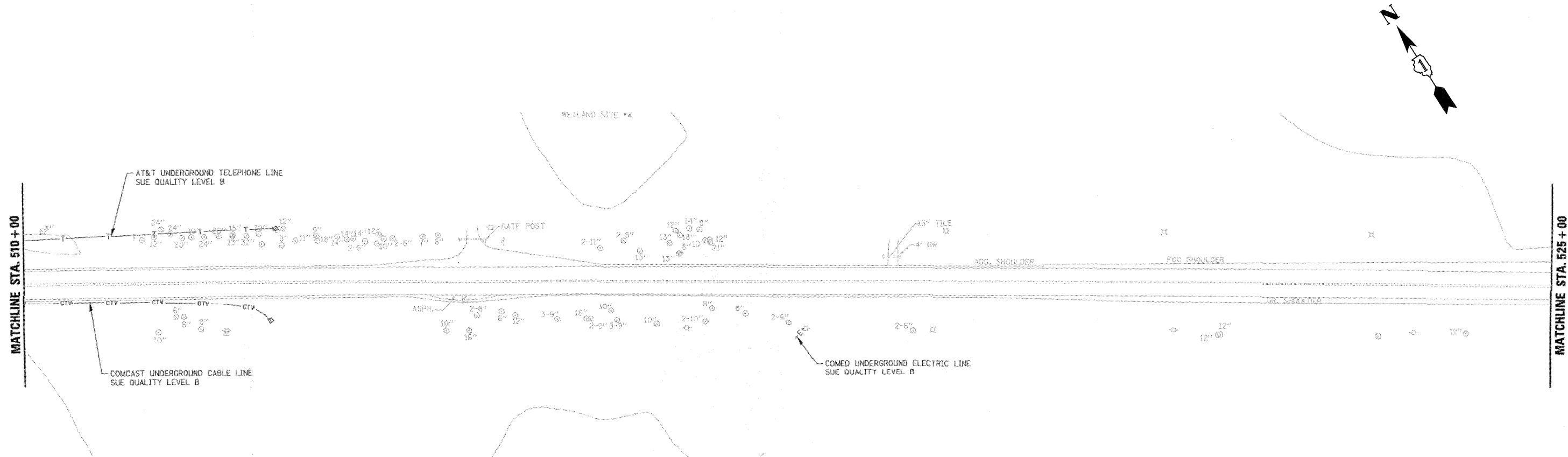
IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
SUE INVESTIGATION OF UNDERGROUND UTILITIES

SCALE: 1"=50' | SHEET NO. 3 OF 6 SHEETS | STA. 495+00 TO STA. 510+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	34
				CONTRACT NO. 60135
[ILLINOIS] FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	RECORDED	
	CADD FILE NAME	
	NO.	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	RECORDED	
	CADD FILE NAME	
	NO.	



STATE OF ILLINOIS)
COUNTY OF COOK) S.S.

UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 7TH OF JULY AND 14TH DAY OF JULY, A.D., 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 5TH DAY OF AUGUST A.D., 2010. CHICAGO, IL.



Steven M. Riens
STEVEN M. RIENS ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619 MY LICENSE EXPIRES 11/30/2011

AMERICAN
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GEODESISTS - MAPPING SCIENTISTS
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Dixon 815-288-6231 / Fax 815-288-6277
Aurora 603-897-4105 / Fax 630-897-4121
Illinois Professional Design Firm No. 184-003192

LEGEND

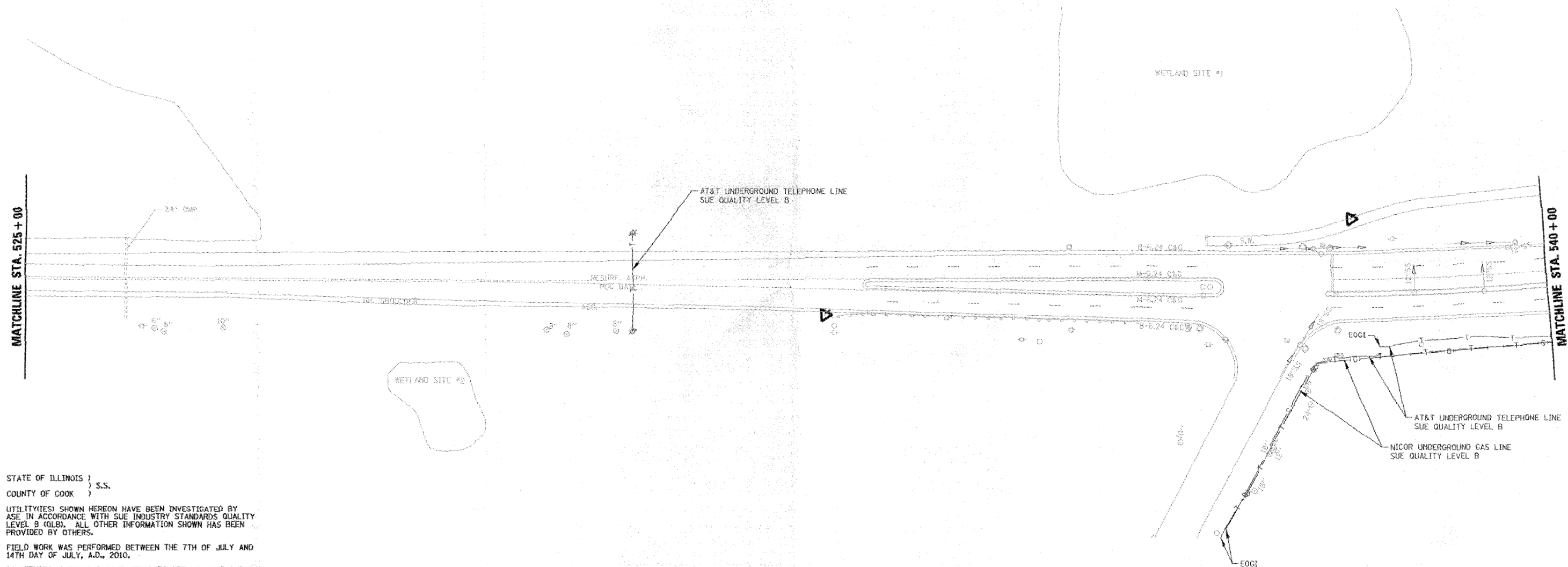
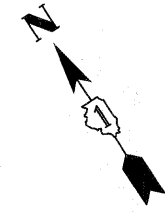
—T—	EXISTING UNDERGROUND TELEPHONE
—W—	EXISTING UNDERGROUND WATER
—E—	EXISTING UNDERGROUND ELECTRIC
—G—	EXISTING UNDERGROUND GAS
—CIV—	EXISTING UNDERGROUND CABLE TV
EOGI	END OF GEOPHYSICAL INFORMATION

FILE NAME = ...N0160135-1D0T_SUE_04.dgn	DESIGNED RJD DRAWN GEW CHECKED TWL DATE JUNE 30, 2011	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD. SUE INVESTIGATION OF UNDERGROUND UTILITIES	F.A.P. RTE. 339	SECTION 116 Y-1-R-1	COUNTY COOK	TOTAL SHEETS 122	SHEET NO. 35	CONTRACT NO. 60135
					SCALE: 1"=50'	SHEET NO. 4 OF 6 SHEETS	STA. 510+00 TO STA. 525+00	ILLINOIS FED. AID PROJECT		



PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	BY	
	NO.	

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	BY	
	NO.	



STATE OF ILLINOIS)
COUNTY OF COOK) S.S.

(UTILITIES) SHOWN HEREON HAVE BEEN INVESTIGATED BY
ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY
LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN
PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 7TH OF JULY AND
14TH DAY OF JULY, A.D., 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL
THIS 5TH DAY OF AUGUST A.D., 2010. CHICAGO, IL.



Steven M. Rienks
STEVEN M. RIENKS - ILLINOIS PROFESSIONAL
ENGINEER NUMBER 62-044619
MY LICENSE EXPIRES 11/30/2011

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Olcott 815-288-6231 / Fax 815-288-6277
Aurora 603-897-4105 / Fax 630-897-4121
Illinois Professional Design Firm No. 184-003192

LEGEND

—T—	EXISTING UNDERGROUND TELEPHONE
—W—	EXISTING UNDERGROUND WATER
—E—	EXISTING UNDERGROUND ELECTRIC
—G—	EXISTING UNDERGROUND GAS
—CTV—	EXISTING UNDERGROUND CABLE TV
EOGI	END OF GEOPHYSICAL INFORMATION

FILE NAME =
...ND160135-1D01 SUE_05.dgn



DESIGNED	RJD	REVISED	-
DRAWN	GEW	REVISED	-
CHECKED	TWL	REVISED	-
DATE	JUNE 30, 2011	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

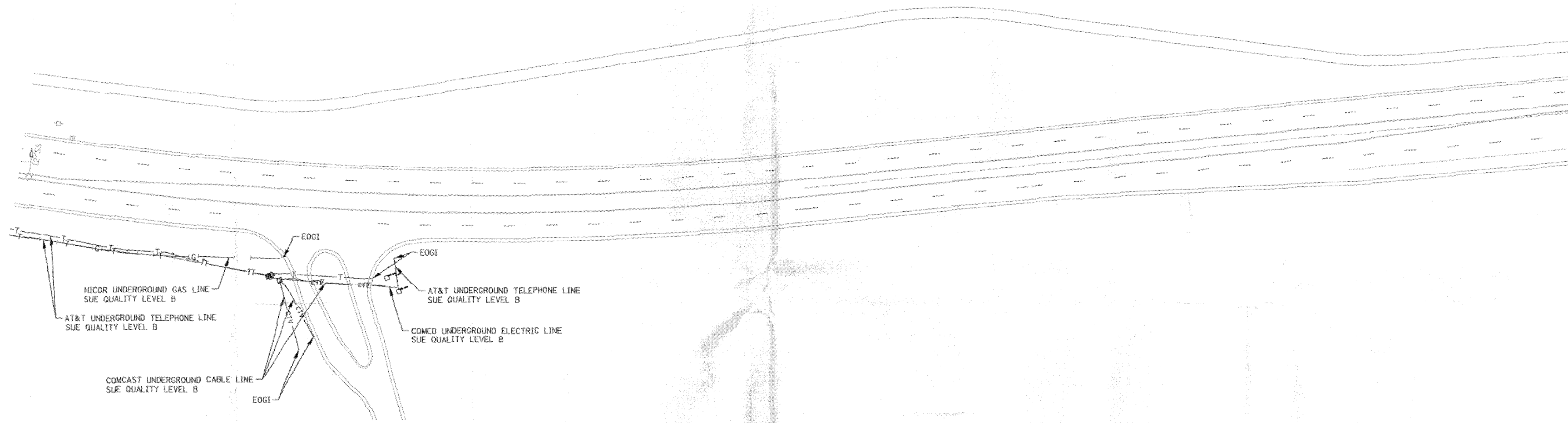
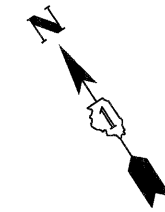
**IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
SUE INVESTIGATION OF UNDERGROUND UTILITIES**

SCALE: 1"=50' SHEET NO. 5 OF 6 SHEETS STA. 525+00 TO STA. 540+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	36
				CONTRACT NO. 60135
[ILLINOIS] FED. AID PROJECT				

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

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



STATE OF ILLINOIS)
COUNTY OF COOK) S.S.

UTILITIES SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 7TH OF JULY AND 14TH DAY OF JULY, A.D., 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 5TH DAY OF AUGUST A.D., 2010. CHICAGO, IL.



Steven M. Rienks
STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619
MY LICENSE EXPIRES 11/30/2011

AMERICAN
SURVEYING & ENGINEERING, P.C.
SURVEYORS - ENGINEERS
GEODESISTS - MAPPING SCIENTISTS
Chicago 312-277-2000 / Fax 312-277-2002
Dixon 815-288-6231 / Fax 815-288-6277
Aurora 630-897-4105 / Fax 630-897-4121
Illinois Professional Design Firm No. 184-003192

LEGEND

—T—	EXISTING UNDERGROUND TELEPHONE
—W—	EXISTING UNDERGROUND WATER
—E—	EXISTING UNDERGROUND ELECTRIC
—G—	EXISTING UNDERGROUND GAS
—CTV—	EXISTING UNDERGROUND CABLE TV
EOGI	END OF GEOPHYSICAL INFORMATION

FILE NAME = ...ND160135-100T_SUE_06.dgn



DESIGNED	RJD	REVISED	-
DRAWN	GEW	REVISED	-
CHECKED	TWL	REVISED	-
DATE	JUNE 30, 2011	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
SUE INVESTIGATION OF UNDERGROUND UTILITIES**

SCALE: 1"=50' SHEET NO. 6 OF 6 SHEETS STA. 540+00 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	37
			CONTRACT NO. 60135	
ILLINOIS FED. AID PROJECT				

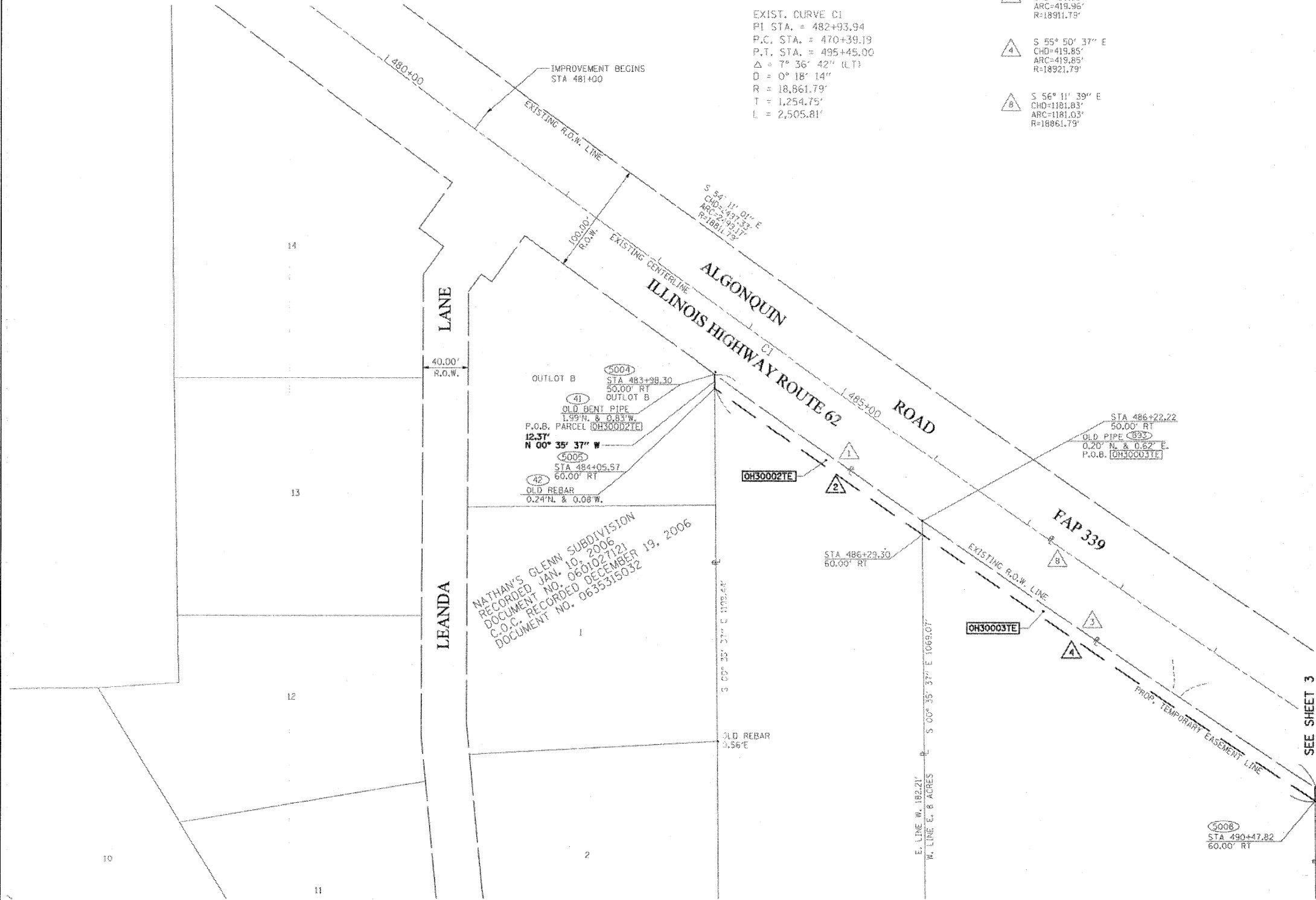
PART OF THE NE 1/4 OF SECTION 22, T.42N., R.9E., OF THE 3rd. P.M. COOK COUNTY, ILLINOIS

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	PART TAKEN ACRES	REMAINDER ACRES	PREVIOUSLY DED. ACRES	EASEMENT ACRES	EASEMENT PURPOSE	PERMANENT ID. NO.	PROPERTY ACQUIRED BY
0H30002	HENRY G. DEMLOW JR.	4.743	N/A	4.743	N/A	0.051	CONSTRUCTION	01-22-201-014	
0H30003	HOLLY A. HUGHES, AS TRUSTEE OF THE DEMLOW HUGHES TRUST	7.516	N/A	7.516	N/A	0.096	CONSTRUCTION	01-22-201-015	

* SEE SHEET 7 FOR TOTAL HOLDINGS OF PARCEL 0H30002 & 0H30003

DATE	
BY	
PLANNED	
NOTED	
CHECKED	
RT. OF WAY CHECKED	
NO. CAD FILE NAME	

DATE	
BY	
PLANNED	
NOTED	
CHECKED	
RT. OF WAY CHECKED	
NO. CAD FILE NAME	



LEGEND

SECTION CORNER
 QUARTER SECTION CORNER
 COORDINATE POSITION NUMBER
 SECTION LINE
 QUARTER SECTION LINE
 QUARTER, QUARTER SECTION LINE
 PROPOSED RIGHT OF WAY LINE
 PROPOSED EASEMENT
 EXISTING RIGHT OF WAY LINE
 CENTERLINE
 PLATTED LOT LINES
 PROPERTY (DEED) LINE
 APPARENT PROPERTY LINE
 MEASURED ENGLISH DIMENSION
 (129.32) COMPUTED DIMENSION
 (129.32) RECORDED DIMENSION
 129.32m METRIC DIMENSION
 + CUT CROSS FOUND OR SET
 EXISTING BUILDING

- IRON OR PIPE FOUND ○ IRON SET
- T1 THESE STAKES REFERENCE FOUND MONUMENTATION. SET 9/16 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND MONUMENTATION. BURIED 9/16 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE TP 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 9/16 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY DISK 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.
- ALL DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.
- TREES ○ EVERGREEN TREES

STATE OF ILLINOIS)
 COUNTY OF WILL)
 THIS IS TO CERTIFY THAT I, ROBERT A. ROGINA, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HERE ON BETWEEN SECTION 22, TOWNSHIP 42 NORTH, AND RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT MINIMUM ILLINOIS STANDARDS FOR A BOUNDARY SURVEY.
 DATED AT JOLIET, ILLINOIS THIS _____ DAY OF _____, 2011 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2017
 LICENSE EXPIRES 11/30/12
 NOTE:
 BASIS OF BEARINGS IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83
 SHEET ONE IS A COVER SHEET AND IS NOT RECORDED

RECEIVED APR 29 2011 PLATS & LEGALS

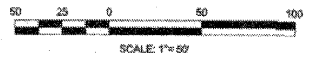
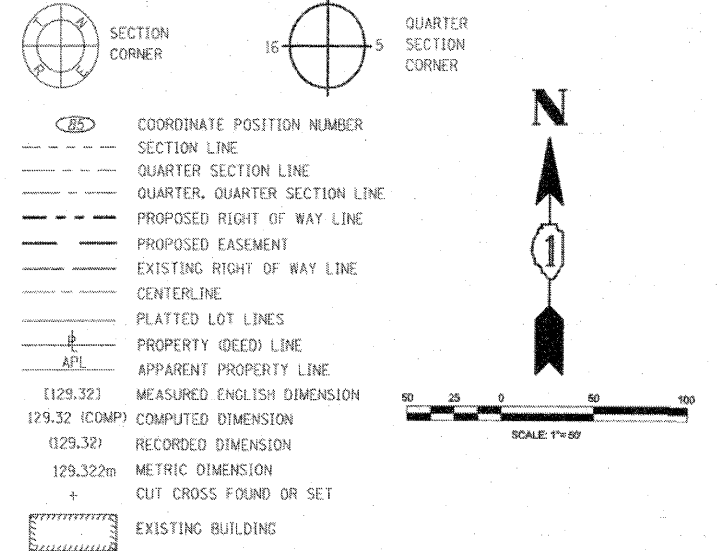
PREPARED BY: **ROGINA & ASSOCIATES, LTD.**
 93 Compton Drive Joliet, Illinois 61729-0777 FAX 815/725-0782

REVISION	DATE	DESCRIPTION
	10/07/09	PER REVIEW
	05/19/10	PER IDOT
	12/02/10	PER IDOT
	04/21/11	REMOVE PARCEL

ILLINOIS DEPT. OF TRANSPORTATION
 PLAT OF HIGHWAYS
 ROUTE FAP 339 IL. ROUTE 62
 SECTION PENNY ROAD TO EASTINGS WAY
 COUNTY COOK
 JOB# R-90-003-04 PROJECT#
 SEC 22 T42N, R9E OF 3rd P.M.
 STA 481+00 TO STA 490+50
 DRAWN M.MILTON CHECKED J.KELLA
 SCALE: 1"=50' SHEET NO. 2 OF 8

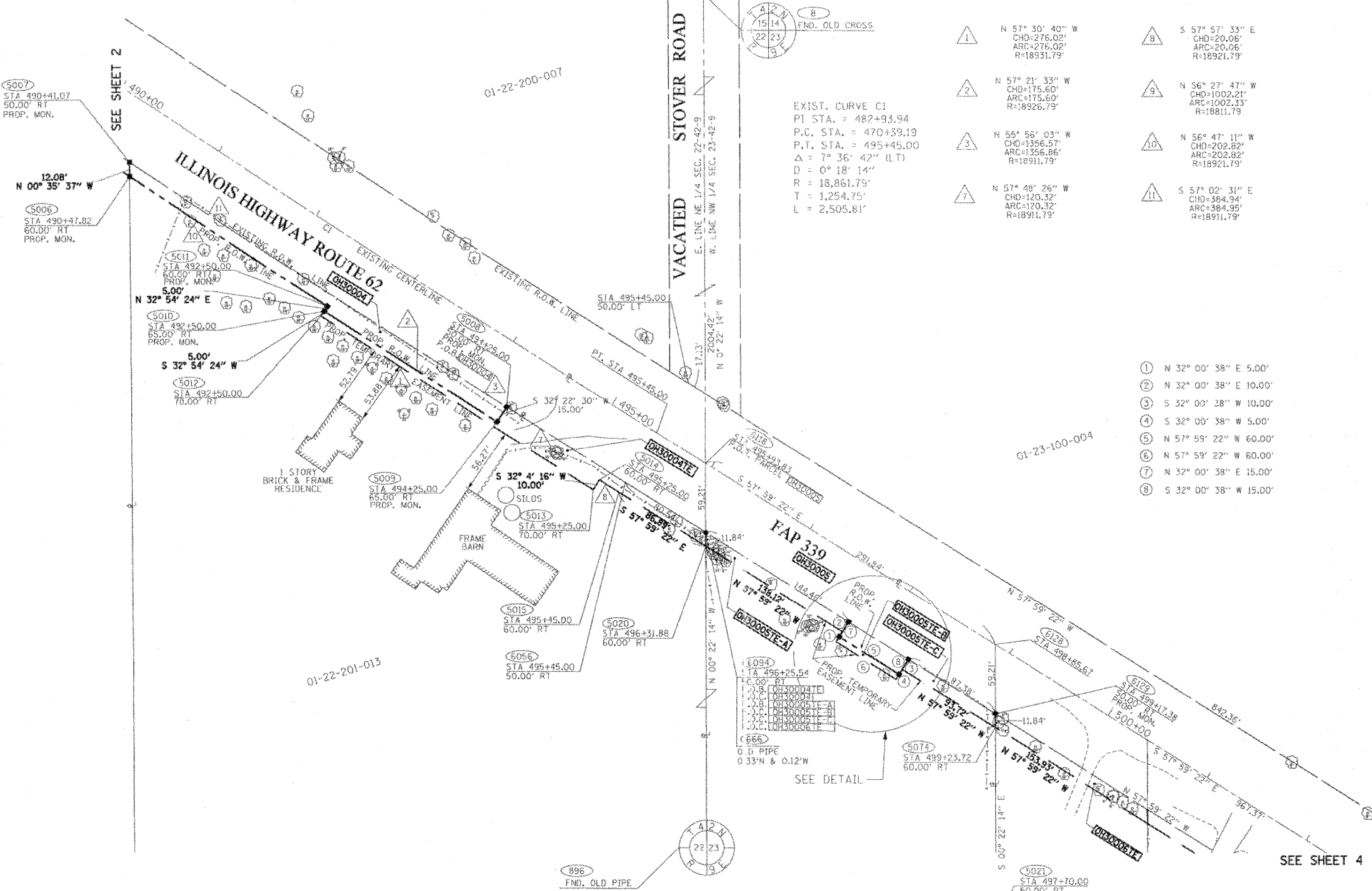
PART OF THE NE 1/4 OF SECTION 22, T.42N., R.9E., OF THE 3rd. P.M. COOK COUNTY, ILLINOIS
PART OF THE NW 1/4 OF SECTION 23, T.42N., R.9E., OF THE 3rd. P.M. COOK COUNTY, ILLINOIS

LEGEND



DATE	
BY	
PLAN	
DATE	
BY	
PLAN	
NO.	

DATE	
BY	
PLAN	
DATE	
BY	
PLAN	
NO.	



- IRON OR PIPE FOUND ○ IRON SET
- T1 T2 T3 THESE STAKES REFERENCE FOUND MONUMENTATION. SET 9/16 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 BT2 BT3 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND MONUMENTATION. BURIED 9/16 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE TP 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 9/16 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY DISK 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.
- ALL DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.
- TREES ○ EVERGREEN TREES

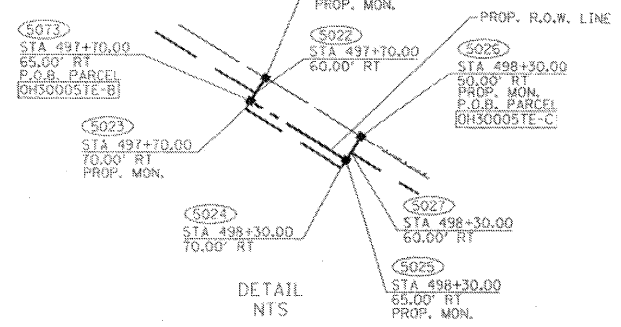
STATE OF ILLINOIS)
) 155
 COUNTY OF WILL)
 THIS IS TO CERTIFY THAT I, ROBERT A. ROGINA, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HERE ON BETWEEN SECTION 22, TOWNSHIP 42 NORTH, AND RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS SHOWN 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. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT MINIMUM ILLINOIS STANDARDS FOR A BOUNDARY SURVEY.
 DATED AT JOLIET, ILLINOIS THIS _____ DAY OF _____, 2011 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2017
 LICENSE EXPIRES 11/30/12
 NOTE:
 BASIS OF BEARINGS IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83
 SHEET ONE IS A COVER SHEET AND IS NOT RECORDED



PARCEL NO.	OWNER	TOTAL HOLDING ACRES	PART TAKEN ACRES	REMAINDER ACRES	PREVIOUSLY DED. ACRES	EASEMENT ACRES	EASEMENT PURPOSE	PERMANENT ID. NO.	PROPERTY ACQUIRED BY
OH30004	R & R FARMS LIMITED PARTNERSHIP	7.519	0.108	7.411	N/A	0.090	CONSTRUCTION	01-22-201-013	
OH30005	RONALD J. DIMONTE FAMILY LIMITED PARTNERSHIP	4.950	0.357	4.593	0.335	A=0.032 B=0.007 300 S.F. C=0.021	CONSTRUCTION	01-23-300-003	

* SEE SHEET 7 FOR TOTAL HOLDINGS OF PARCELS OH30004 & OH30005



FILE NAME = ...ND160135-shr-parcel1_82.dgn



DESIGNED	RJD	REVISED	-
DRAWN	MHL	REVISED	-
CHECKED	RJD	REVISED	-
DATE	JUNE 30, 2011	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
PLAT OF HIGHWAYS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	39

RECEIVED:
 APR 29 2011
 PLATS & LEGALS

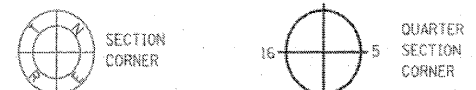
PREPARED BY: **ROGINA & ASSOCIATES, LTD.**
 93 Caterpillar Drive, Joliet, Illinois 815/729-0771 FAX 815/729-0782

ILLINOIS DEPT. OF TRANSPORTATION
 PLAT OF HIGHWAYS
 ROUTE FAP 339 IL. ROUTE 62
 SECTION PENNY ROAD TO EASTINGS WAY
 COUNTY COOK
 JOB# R-90-003-04 PROJECT#
 SECS 22&23 T42N, R9E OF 3rd P.M.
 STA 490+00 TO STA 502+00
 DRAWN M.MILTON CHECKED J.KELLA
 SCALE: 1"=50' SHEET NO. 3 OF 8

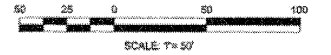
REVISION	DATE	DESCRIPTION
	10/07/09	PER REVIEW
	08/12/10	PER REVIEW
	04/21/11	REMOVE PARCEL

PART OF THE NW 1/4 OF SECTION 23, T.42N., R.9E., OF THE 3rd. P.M. COOK COUNTY, ILLINOIS
PART OF THE SW 1/4 OF SECTION 23, T.42N., R.9E., OF THE 3rd. P.M. COOK COUNTY, ILLINOIS

LEGEND



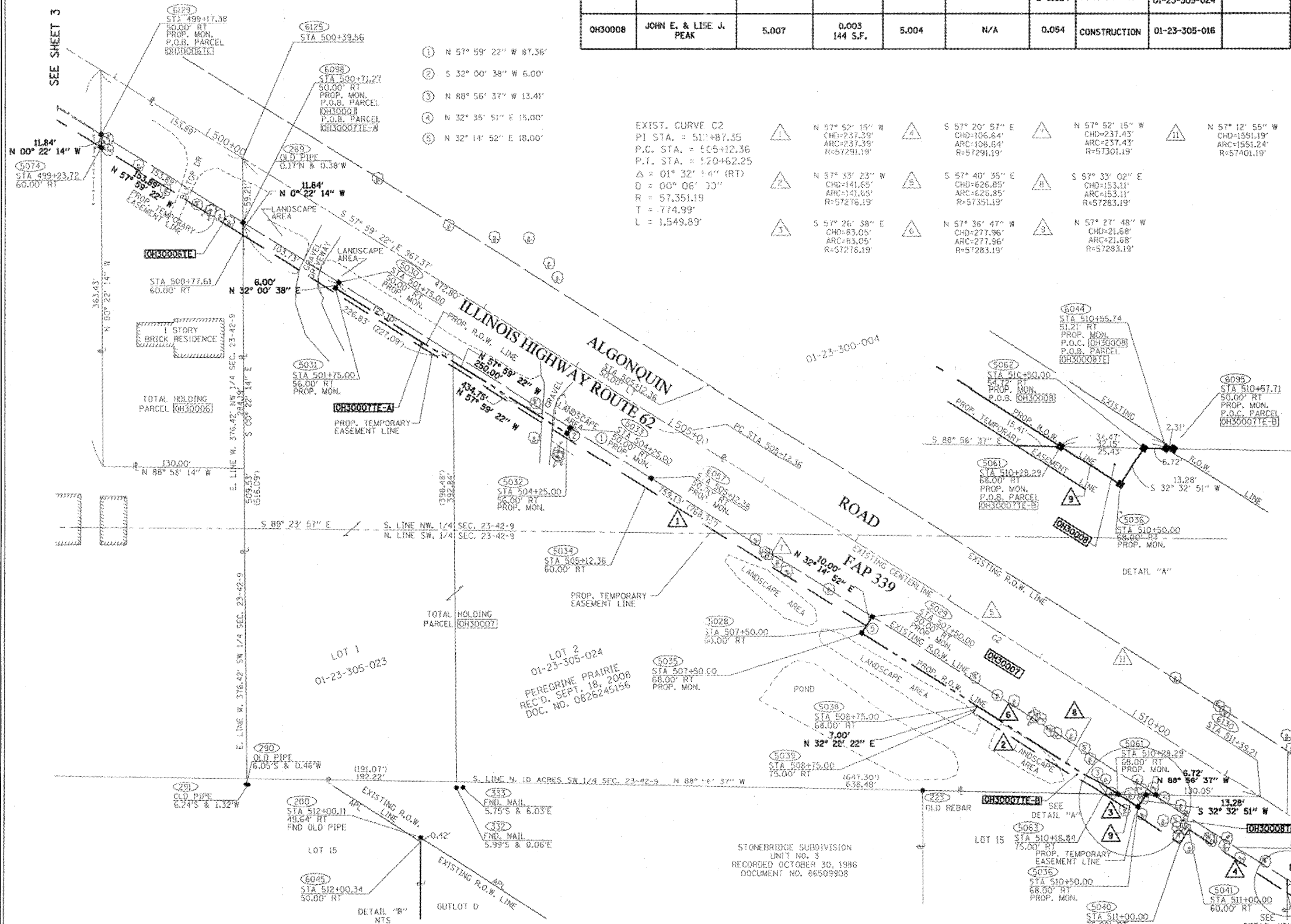
- ⊙ COORDINATE POSITION NUMBER
- SECTION LINE
- - - - QUARTER SECTION LINE
- - - - QUARTER, QUARTER SECTION LINE
- - - - PROPOSED RIGHT OF WAY LINE
- - - - PROPOSED EASEMENT
- - - - EXISTING RIGHT OF WAY LINE
- - - - CENTERLINE
- - - - PLATTED LOT LINES
- - - - PROPERTY IDEED LINE
- APL APPARENT PROPERTY LINE
- (129.32) MEASURED ENGLISH DIMENSION
- 129.32 (COMP) COMPUTED DIMENSION
- (129.32) RECORDED DIMENSION
- 129.322m METRIC DIMENSION
- + CUT CROSS FOUND OR SET
- [Hatched Box] EXISTING BUILDING



PARCEL NO.	OWNER	TOTAL HOLDING ACRES	PART TAKEN ACRES	REMAINDER ACRES	PREVIOUSLY DED. ACRES	EASEMENT ACRES	EASEMENT PURPOSE	PERMANENT ID. NO.	PROPERTY ACQUIRED BY
OH30006	RINALDO & JEAN ANN DIMONTE	0.966	N/A	0.966	N/A	0.035	CONSTRUCTION	01-23-300-003	
OH30007	GEORGE V. KANAGIN	6.072	1.352	4.720	1.196	A=0.121 B=0.024	CONSTRUCTION	01-23-305-023 01-23-305-024	
OH30008	JOHN E. & LISE J. PEAK	5.007	0.003 144 S.F.	5.004	N/A	0.054	CONSTRUCTION	01-23-305-016	

PLAN	DATE
SURVEYED	BY
PLOTTED	BY
FILED	BY
CHECKED	BY
RT. OF WAY CHECKED	BY
NOTE BOOK	NO.
CADD FILE NAME	

PLAN	DATE
SURVEYED	BY
PLOTTED	BY
FILED	BY
CHECKED	BY
RT. OF WAY CHECKED	BY
NOTE BOOK	NO.
CADD FILE NAME	



- IRON OR PIPE FOUND ○ IRON SET
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- TREES ○ EVERGREEN TREES

STATE OF ILLINOIS)
 COUNTY OF WILL)
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 DATED AT JOLIET, ILLINOIS THIS _____ DAY OF _____, 2011 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2017
 LICENSE EXPIRES 11/30/12
 NOTE:
 BASIS OF BEARINGS IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, MAD 83
 SHEET ONE IS A COVER SHEET AND IS NOT RECORDED



REVISION	DATE	DESCRIPTION
10/07/09	PER REVIEW	
10/15/09	PER REVIEW	
10/18/10	PARCEL OH30007	
12/08/10	PARCEL OH30006	
04/21/11	REMOVE PARCEL	

PREPARED BY: **ROGINA & ASSOCIATES, L.P.**
 93 Caterpillar Drive, Joliet, Illinois 61728-0777 FAX 815/728-0782

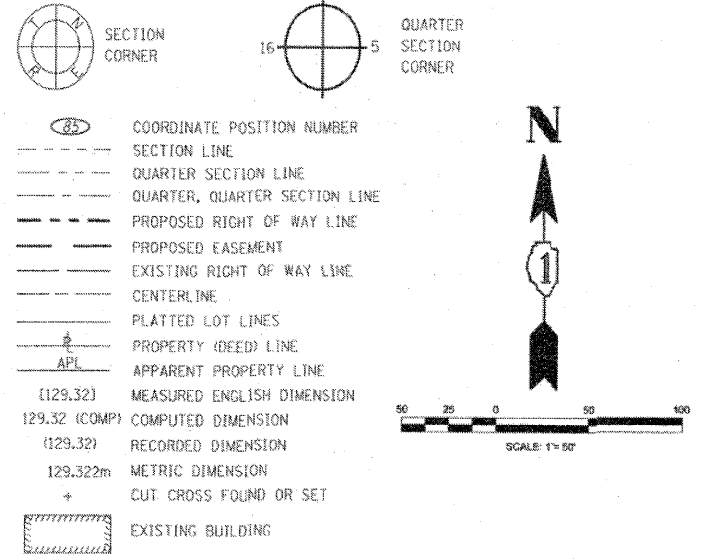
ILLINOIS DEPT. OF TRANSPORTATION
 PLAT OF HIGHWAYS
 ROUTE FAP 339 IL. ROUTE 62
 SECTION PENNY ROAD TO EASTINGS WAY
 COUNTY COOK
 JOB# R-90-003-04 PROJECT#
 SEC 23 T42N, R9E OF 3rd P.M.
 STA 498+50 TO STA 511+50
 DRAWN M.MILTON CHECKED J.KELLA
 SCALE: 1"=50' SHEET NO. 4 OF 8



PART OF THE SW 1/4 OF SECTION 23, T.42N., R.9E., OF THE 3rd. P.M. COOK COUNTY, ILLINOIS

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	PART TAKEN ACRES	REMAINDER ACRES	PREVIOUSLY DED. ACRES	EASEMENT ACRES	EASEMENT PURPOSE	PERMANENT ID. NO.	PROPERTY ACQUIRED BY
OH30009	GREENSWARD HOMEOWNERS ASSOC.	5.213	N/A	5.213	N/A	0.087	CONSTRUCTION	01-23-307-017	
OH30010	ROOP R. SHIVPURI TRUST	2.211	N/A	2.211	N/A	0.050	CONSTRUCTION	01-23-307-011	
OH30011	WLADYSLAW & IRENA MALYSA	1.621	N/A	1.621	N/A	0.099	CONSTRUCTION	01-23-307-012	
OH30012	RICHARD C. & MARY M. IMMEL JR.	1.001	N/A	1.001	N/A	0.039	CONSTRUCTION	01-23-307-013	

LEGEND



- IRON OR PIPE FOUND ○ IRON SET
- T1 THESE STAKES REFERENCE FOUND MONUMENTATION. SET 9/16 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
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- ⊙ PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.
- ALL DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.
- ⊙ TREES ○ EVERGREEN TREES

STATE OF ILLINOIS)
 COUNTY OF WILL)
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 DATED AT JOLIET, ILLINOIS THIS _____ DAY OF _____, 2011 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2017
 LICENSE EXPIRES 11/30/12
 NOTE:
 BASIS OF BEARINGS IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83
 SHEET ONE IS A COVER SHEET AND IS NOT RECORDED



RECEIVED: APR 29 2011
 PLATS & LEGALS

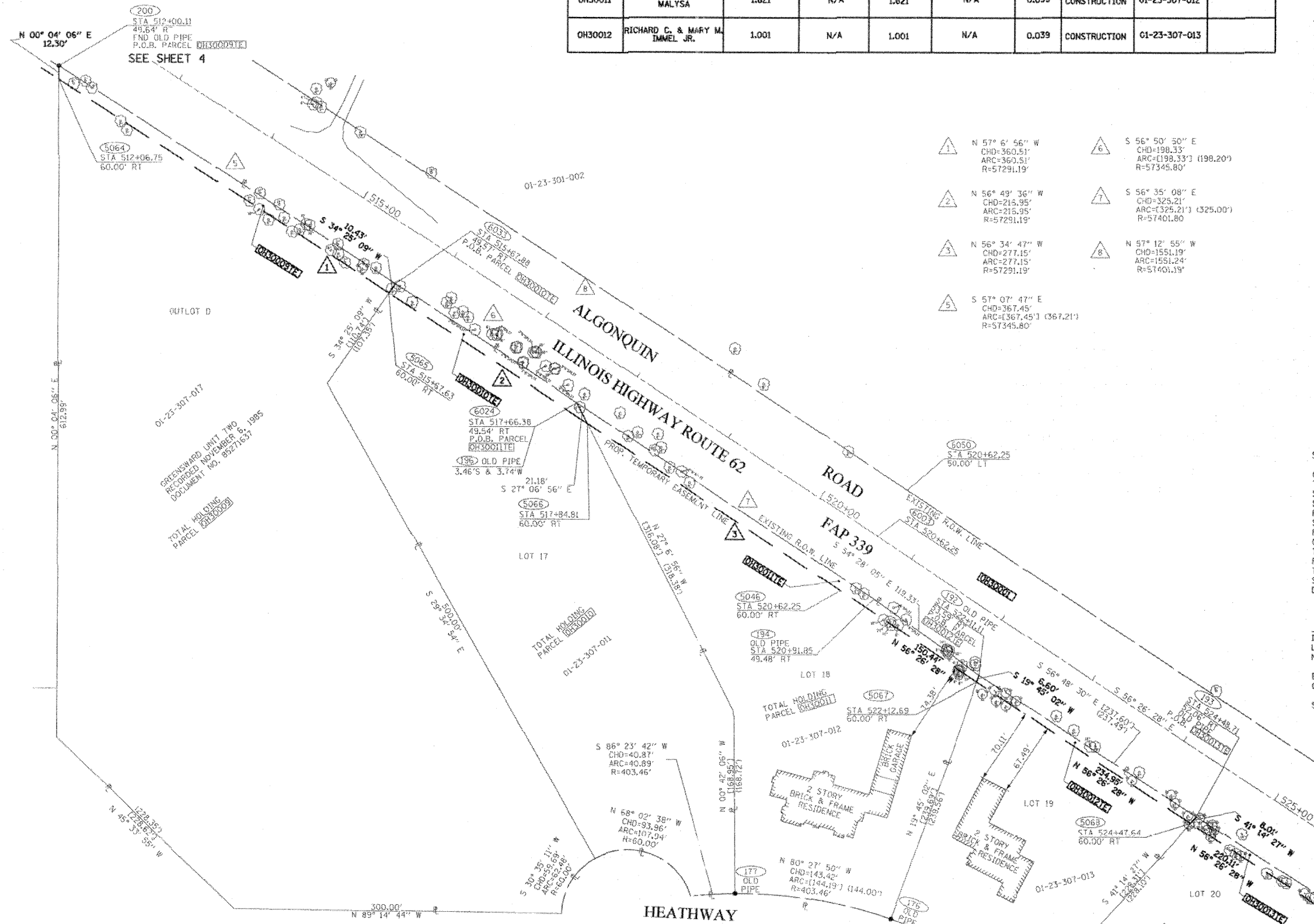
PREPARED BY: **ROGINA & ASSOCIATES, L.T.D.**
 93 Caterpillar Drive, Joliet, Illinois 61515-729-0777 FAX 815/729-0782

REVISION	DATE	DESCRIPTION
	10/07/09	PER REVIEW
	10/15/09	PER REVIEW
	04/21/11	REMOVE PARCEL

ILLINOIS DEPT. OF TRANSPORTATION
 PLAT OF HIGHWAYS
 ROUTE FAP 339 IL. ROUTE 62
 SECTION PENNY ROAD TO EASTINGS WAY
 COUNTY COOK
 JOB# R-90-003-04 PROJECT#
 SEC 23 T42N, R9E OF 3rd P.M.
 STA 512+00 TO STA 525+00
 DRAWN M.MILTON CHECKED J.KELLA
 SCALE: 1"=50' SHEET NO. 5 OF 8

DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY



FILE NAME = ...\\D160135-sht-parcel_04.dgn



DESIGNED	RJD	REVISED	-
DRAWN	MHL	REVISED	-
CHECKED	RJD	REVISED	-
DATE	JUNE 30, 2011	REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
 PLAT OF HIGHWAYS
 SCALE: N.T.S. SHEET NO. 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	41
CONTRACT NO. 60135				
ILLINOIS FED. AID PROJECT				

PART OF THE SW 1/4 OF SECTION 23, T.42N., R.9E., OF THE 3rd. P.M. COOK COUNTY, ILLINOIS
PART OF THE SE 1/4 OF SECTION 23, T.42N., R.9E., OF THE 3rd. P.M. COOK COUNTY, ILLINOIS

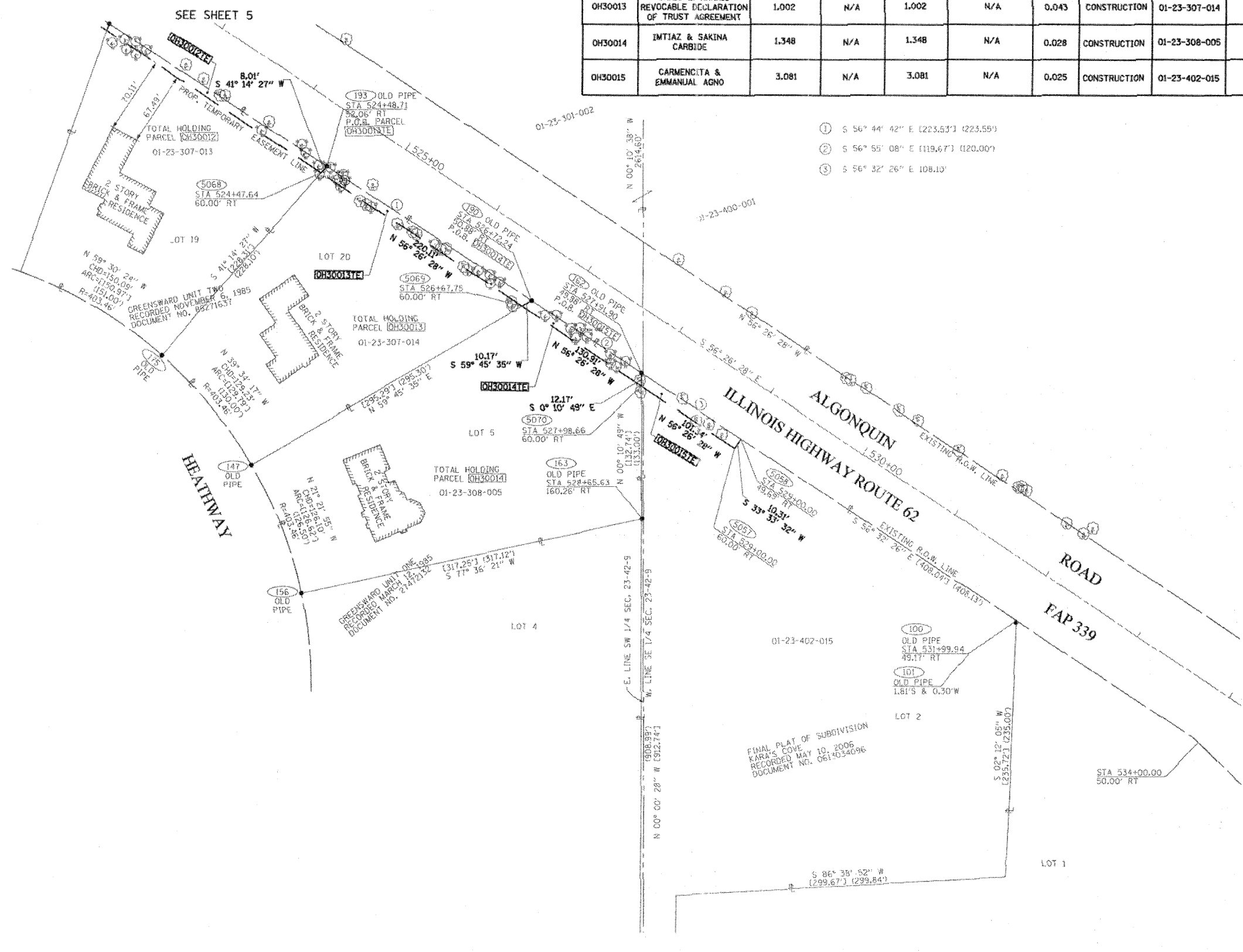
LEGEND



PARCEL NO.	OWNER	TOTAL HOLDING ACRES	PART TAKEN ACRES	REMAINDER ACRES	PREVIOUSLY DED. ACRES	EASEMENT ACRES	EASEMENT PURPOSE	PERMANENT ID. NO.	PROPERTY ACQUIRED BY
OH30012	RICHARD C. & MARY M. IMMEL JR.	1.001	N/A	1.001	N/A	0.039	CONSTRUCTION	01-23-307-013	
OH30013	CRAIG E. HARRIS REVOCABLE DECLARATION OF TRUST AGREEMENT	1.002	N/A	1.002	N/A	0.043	CONSTRUCTION	01-23-307-014	
OH30014	IMTIAZ & SAKINA CARBIDE	1.348	N/A	1.348	N/A	0.028	CONSTRUCTION	01-23-308-005	
OH30015	CARMENCITA & EMMANUAL AGNO	3.081	N/A	3.081	N/A	0.025	CONSTRUCTION	01-23-402-015	

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

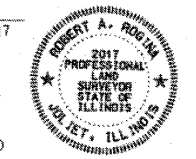
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- IRON OR PIPE FOUND ○ IRON SET
- T1 THESE STAKES REFERENCE FOUND MONUMENTATION. SET 9/16 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND MONUMENTATION. BURIED 9/16 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE TP 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 9/16 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY DISK 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.
- ALL DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.
- TREES ○ EVERGREEN TREES

STATE OF ILLINOIS)
)
 COUNTY OF WILL)
)
 THIS IS TO CERTIFY THAT I, ROBERT A. ROGINA, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HERE ON BETWEEN SECTION 22, TOWNSHIP 42 NORTH, AND RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT MINIMUM ILLINOIS STANDARDS FOR A BOUNDARY SURVEY.
 DATED AT JOLIET, ILLINOIS THIS _____ DAY OF _____, 2011 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2017
 LICENSE EXPIRES 11/30/12
 NOTE:
 BASIS OF BEARINGS IS THE ILLINOIS STATE PLANE
 COORDINATE SYSTEM EAST ZONE, NAD 83
 SHEET ONE IS A COVER SHEET AND IS NOT RECORDED



RECEIVED:
 APR 29 2011
 PLATS & LEGALS

PREPARED BY: **ROGINA & ASSOCIATES, L.T.D.**
 53 Cahoonville Drive, Joliet, Illinois 61773-0717 FAX 815/729-0782

ILLINOIS DEPT. OF TRANSPORTATION
PLAT OF HIGHWAYS
 ROUTE FAP 339 IL. ROUTE 62
 SECTION PENNY ROAD TO EASTINGS WAY
 COUNTY COOK
 JOB# R-90-003-04 PROJECT#
 SEC 23 T42N, R9E OF 3rd P.M.
 STA 525+00 TO STA 534+00
 DRAWN M.MILTON CHECKED J.KELLA
 SCALE: 1"=50' SHEET NO. 6 OF 8

DATE	DESCRIPTION
10/07/09	PER REVIEW
10/15/09	PER REVIEW
04/21/11	REMOVE PARCEL

FILE NAME =
 ...\\D160135-sht-parcel_l_05.dgn



DESIGNED	RJD	REVISED	-
DRAWN	MHL	REVISED	-
CHECKED	RJD	REVISED	-
DATE	JUNE 30, 2011	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

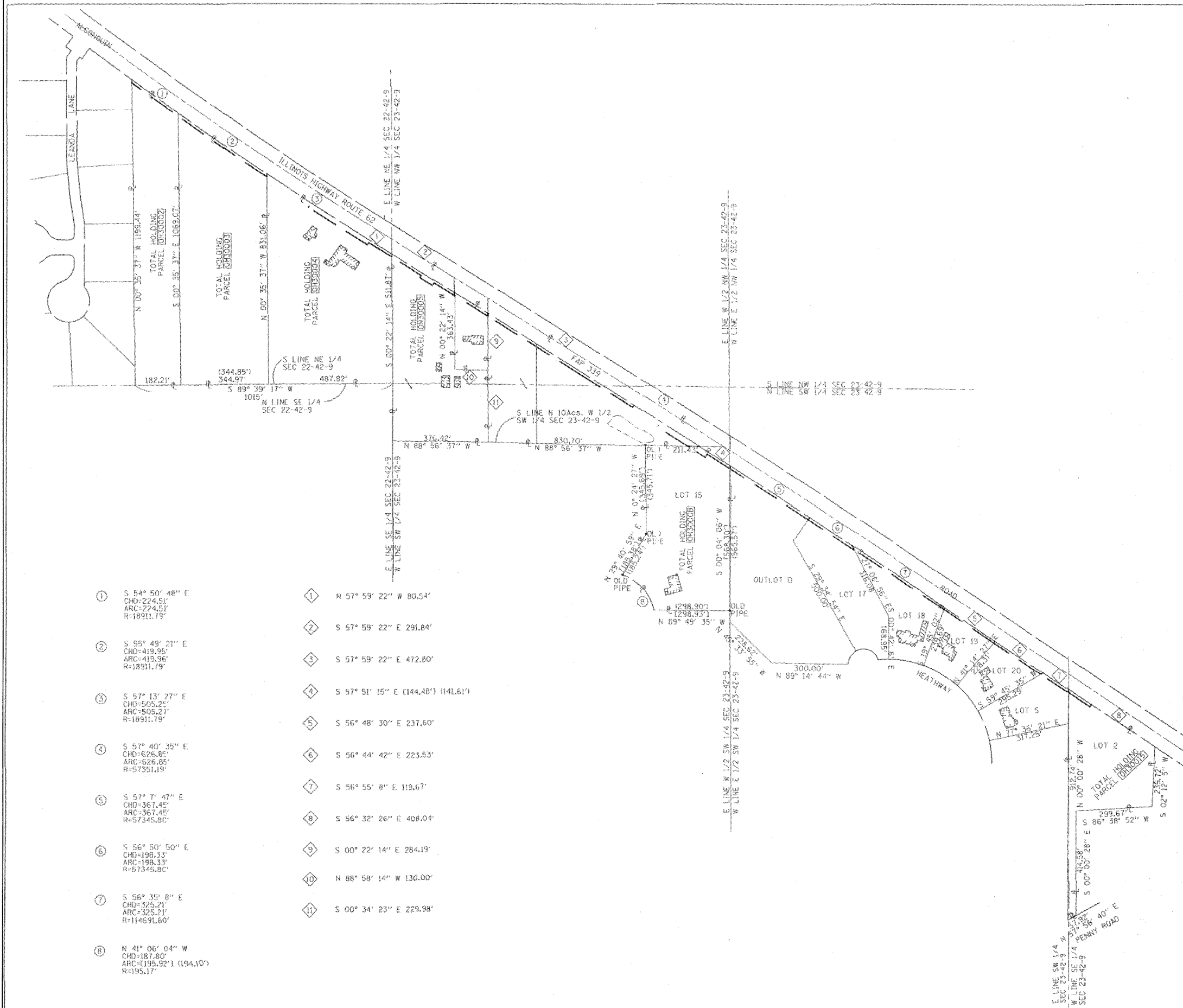
IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
PLAT OF HIGHWAYS
 SCALE: N.T.S. SHEET NO. 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	42

CONTRACT NO. 60135
 ILLINOIS FED. AID PROJECT

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

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



① S 54° 50' 48" E CHD=224.51' ARC=224.51' R=18911.79'	① N 57° 59' 22" W 80.54'
② S 55° 49' 21" E CHD=419.95' ARC=419.96' R=18911.79'	② S 57° 59' 22" E 291.84'
③ S 57° 13' 27" E CHD=505.25' ARC=505.27' R=18911.79'	③ S 57° 51' 15" E (144.48') (141.61')
④ S 57° 40' 35" E CHD=626.85' ARC=626.85' R=57351.19'	④ S 56° 48' 30" E 237.60'
⑤ S 57° 7' 47" E CHD=367.45' ARC=367.45' R=57345.80'	⑤ S 56° 55' 8" E 119.67'
⑥ S 56° 50' 50" E CHD=198.33' ARC=198.33' R=57345.80'	⑥ S 56° 44' 42" E 223.53'
⑦ S 56° 35' 8" E CHD=325.21' ARC=325.21' R=114691.60'	⑦ S 56° 32' 26" E 408.04'
⑧ N 41° 06' 04" W CHD=187.80' ARC=195.92' (194.10') R=195.17'	⑧ S 00° 22' 14" E 284.19'
	⑨ N 88° 58' 14" W 130.00'
	⑩ S 00° 34' 23" E 229.98'

LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- COORDINATE POSITION NUMBER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- EXISTING RIGHT OF WAY LINE
- CENTERLINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- (129.32) MEASURED ENGLISH DIMENSION
- 129.32 (COMP) COMPUTED DIMENSION
- (129.32) RECORDED DIMENSION
- 129.32m METRIC DIMENSION
- + CUT CROSS FOUND OR SET
- EXISTING BUILDING

SCALE: 1"=200'

- IRON OR PIPE FOUND ○ IRON SET
- TI THESE STAKES REFERENCE FOUND MONUMENTATION. SET 9/16 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND MONUMENTATION. BURIED 9/16 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE TP 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 9/16 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY DISK 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.
- ALL DISTANCES ARE MEASURED UNLESS OTHERWISE NOTED.
- ⊙ TREES
- ⊙ EVERGREEN TREES

STATE OF ILLINOIS)
COUNTY OF WILL)
) SS
THIS IS TO CERTIFY THAT I, ROBERT A. ROGINA, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HERE ON BETWEEN SECTION 22, TOWNSHIP 42 NORTH, AND RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT MINIMUM ILLINOIS STANDARDS FOR A BOUNDARY SURVEY.
DATED AT JOLIET, ILLINOIS THIS DAY OF , 2011 A.D.







ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2017
LICENSE EXPIRES 11/30/12
NOTE:
BASIS OF BEARINGS IS THE ILLINOIS STATE PLANE COORDINATE SYSTEM EAST ZONE, NAD 83
SHEET ONE IS A COVER SHEET AND IS NOT RECORDED



RECEIVED: APR 29 2011	PREPARED BY: ROGINA & ASSOCIATES, LTD.
PLATS & LEGALS	93 Caterpillar Drive, Joliet, Illinois 61779-0777 FAX 815/729-0782
REVISION	ILLINOIS DEPT. OF TRANSPORTATION PLAT OF HIGHWAYS
DATE DESCRIPTION	ROUTE FAP 339 IL. ROUTE 62
05/19/10 PER IDOT	SECTION PENNY ROAD TO EASTINGS WAY
08/12/10 PER IDOT	COUNTY COOK
12/02/10 PER IDOT	JOB# R-90-003-04 PROJECT*
04/21/11 REMOVE PARCEL	SECS 22&23 T 42N, R 9E OF 3rd P.M.
	STA TO STA
	DRAWN M.MILTON CHECKED J.KELLA
	SCALE: 1"=200' SHEET NO. 7 OF 8

PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTED	
	RT. OF WAY CHECKED	
	CADD FILE NAME	
	NO.	

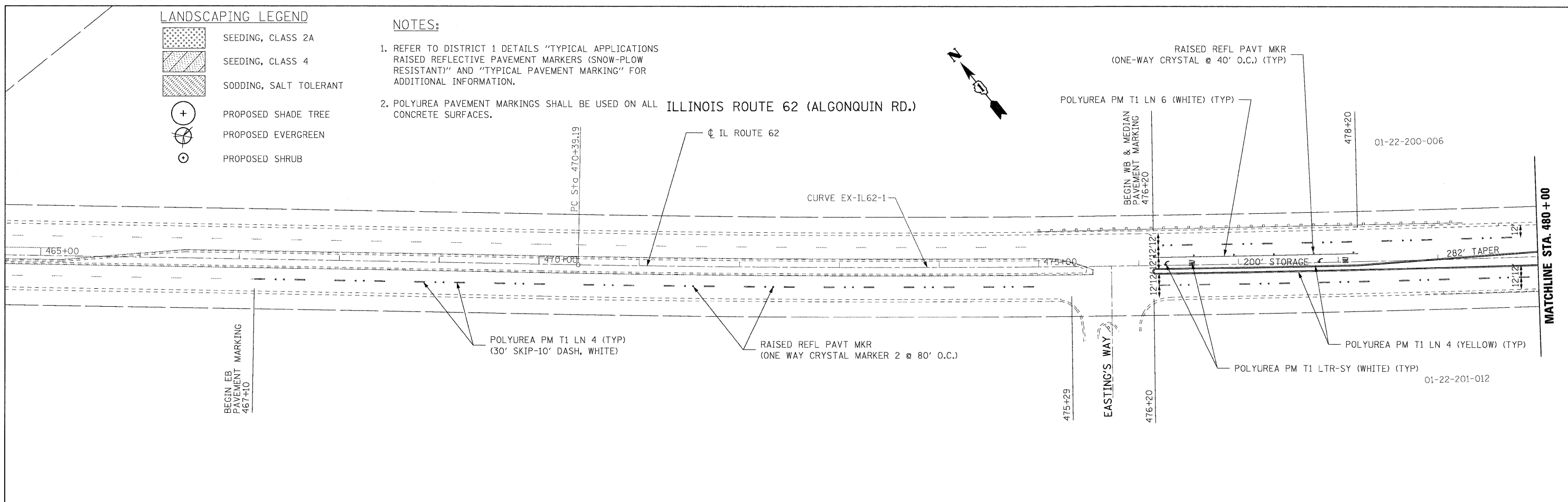
LANDSCAPING LEGEND

-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4
-  SODDING, SALT TOLERANT
-  PROPOSED SHADE TREE
-  PROPOSED EVERGREEN
-  PROPOSED SHRUB

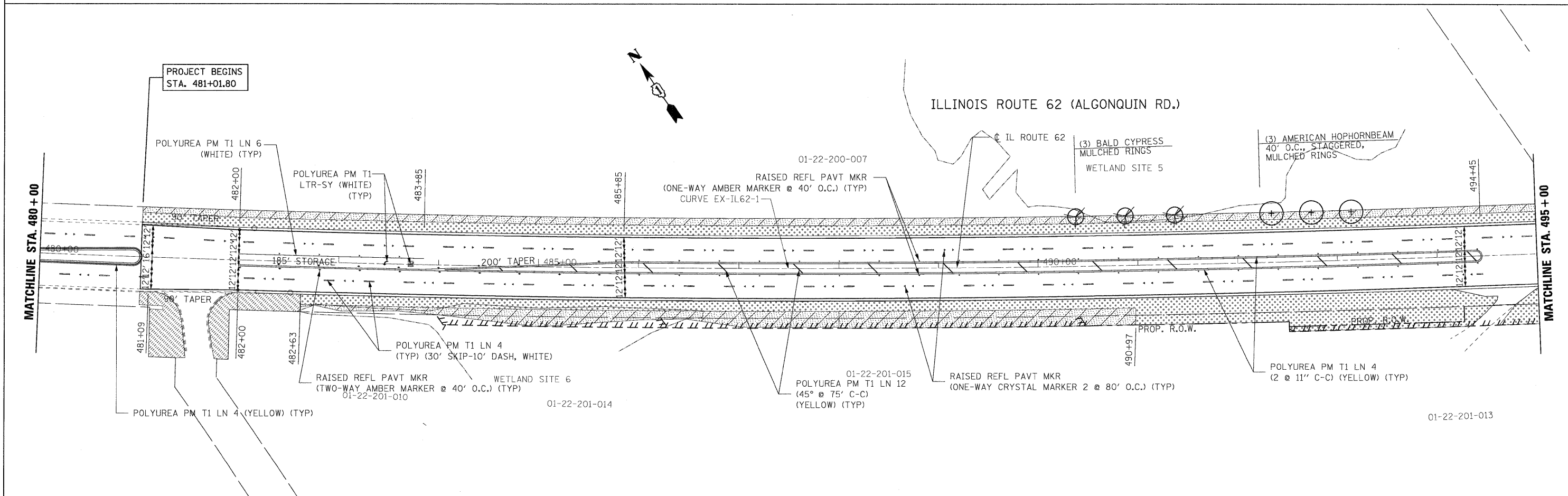
NOTES:

- REFER TO DISTRICT 1 DETAILS "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" AND "TYPICAL PAVEMENT MARKING" FOR ADDITIONAL INFORMATION.
- POLYUREA PAVEMENT MARKINGS SHALL BE USED ON ALL CONCRETE SURFACES.

ILLINOIS ROUTE 62 (ALGONQUIN RD.)



PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTED	
	RT. OF WAY CHECKED	
	CADD FILE NAME	
	NO.	



FILE NAME = ...\\D160135-sht-pmk_01.dgn



DESIGNED	ADW	REVISED	-
DRAWN	MHL	REVISED	-
CHECKED	RJD	REVISED	-
DATE	JUNE 30, 2011	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
PAVEMENT MARKING & LANDSCAPING PLAN**

SCALE: 1"=50' SHEET NO. 1 OF 3 SHEETS STA. 467+10 TO STA. 495+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	45
				CONTRACT NO. 60I35
[ILLINOIS] FED. AID PROJECT				

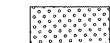
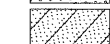

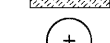

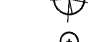
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	PLOTTED	BY
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	FILE NAME	
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	NO.	

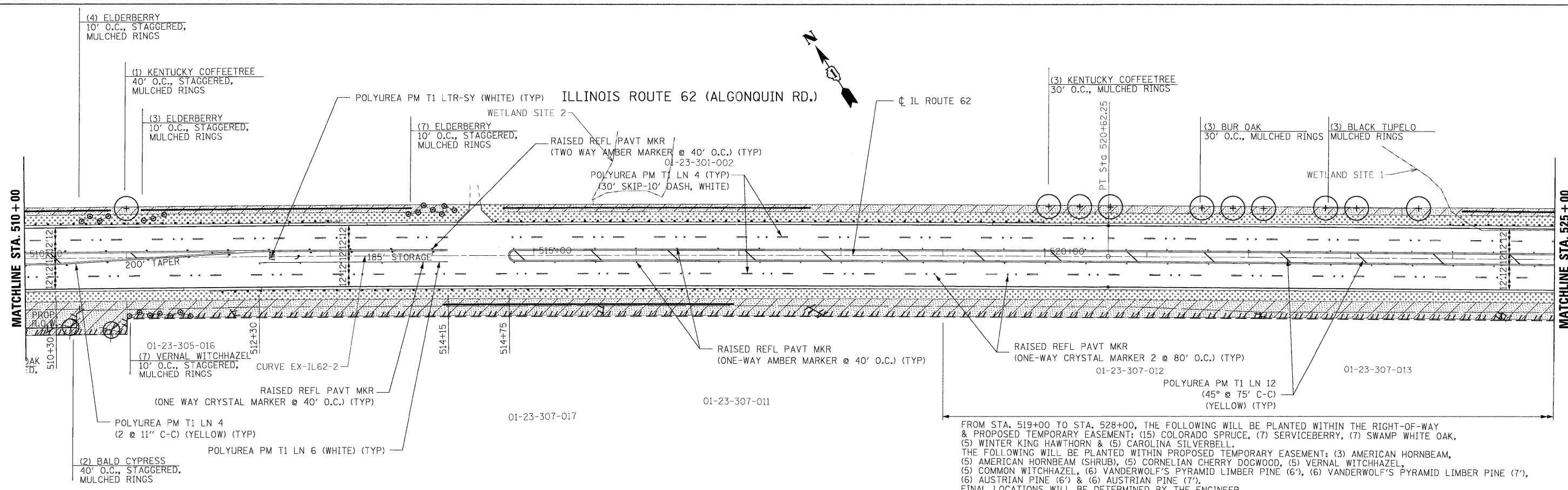
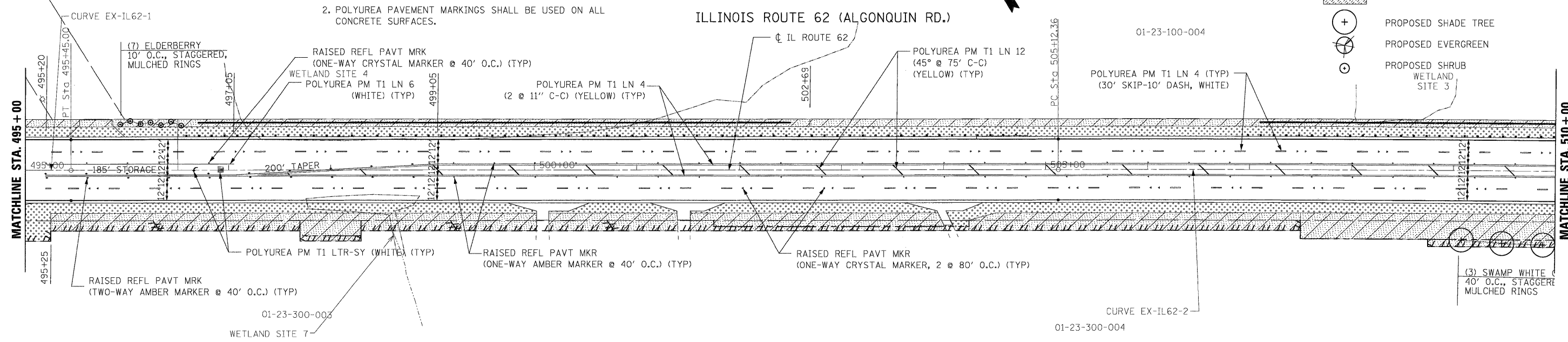
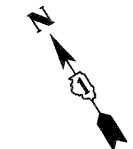
PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	BY	
	FILE NAME	
	NO.	
	NO.	
	NO.	

NOTES:

- REFER TO DISTRICT 1 DETAILS "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" AND "TYPICAL PAVEMENT MARKING" FOR ADDITIONAL INFORMATION.
- POLYUREA PAVEMENT MARKINGS SHALL BE USED ON ALL CONCRETE SURFACES.

LANDSCAPING LEGEND

-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4
-  SODDING, SALT TOLERANT
-  PROPOSED SHADE TREE
-  PROPOSED EVERGREEN
-  PROPOSED SHRUB



FROM STA. 519+00 TO STA. 528+00, THE FOLLOWING WILL BE PLANTED WITHIN THE RIGHT-OF-WAY & PROPOSED TEMPORARY EASEMENT: (15) COLORADO SPRUCE, (7) SERVICEBERRY, (7) SWAMP WHITE OAK, (5) WINTER KING HAWTHORN & (5) CAROLINA SILVERBELL.
 THE FOLLOWING WILL BE PLANTED WITHIN PROPOSED TEMPORARY EASEMENT: (3) AMERICAN HORNBEAM, (5) AMERICAN HORNBEAM (SHRUB), (5) CORNELIAN CHERRY DOGWOOD, (5) VERNAL WITCHHAZEL, (5) COMMON WITCHHAZEL, (6) VANDERWOLF'S PYRAMID LIMBER PINE (6'), (6) VANDERWOLF'S PYRAMID LIMBER PINE (7'), (6) AUSTRIAN PINE (6') & (6) AUSTRIAN PINE (7').
 FINAL LOCATIONS WILL BE DETERMINED BY THE ENGINEER.

FILE NAME = ...\\D168135-sht-pmk_02.dgn



DESIGNED	ADW	REVISED	-
DRAWN	MHL	REVISED	-
CHECKED	RJD	REVISED	-
DATE	JUNE 30, 2011	REVISED	-







**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
PAVEMENT MARKING & LANDSCAPING PLAN**

SCALE: 1"=50' SHEET NO. 2 OF 3 SHEETS STA. 495+00 TO STA. 525+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	46
				CONTRACT NO. 60135
[ILLINOIS] FED. AID PROJECT				

LANDSCAPING LEGEND

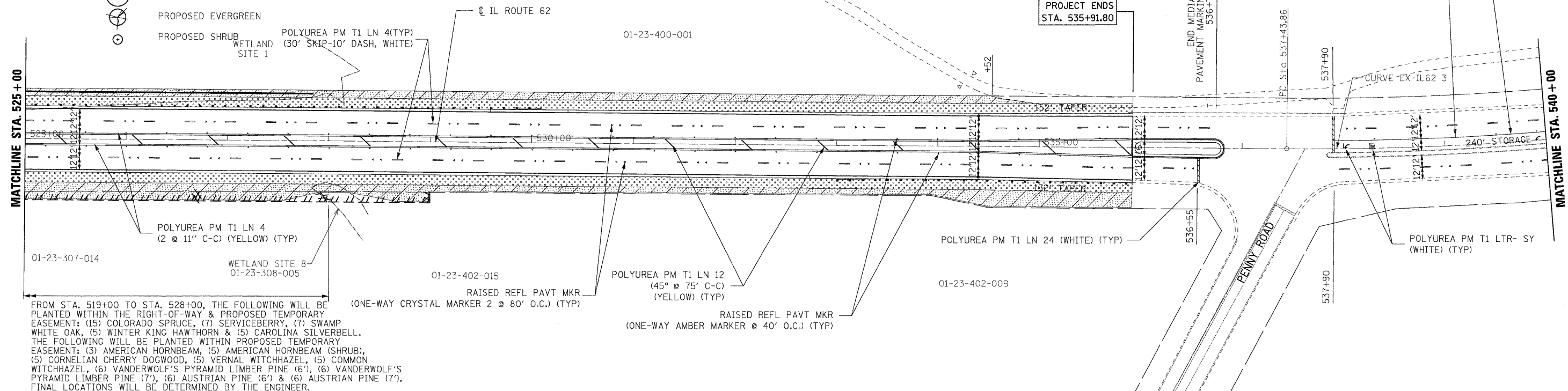
-  SEEDING, CLASS 2A
-  SEEDING, CLASS 4
-  SODDING, SALT TOLERANT
-  PROPOSED SHADE TREE
-  PROPOSED EVERGREEN
-  PROPOSED SHRUB

NOTES:

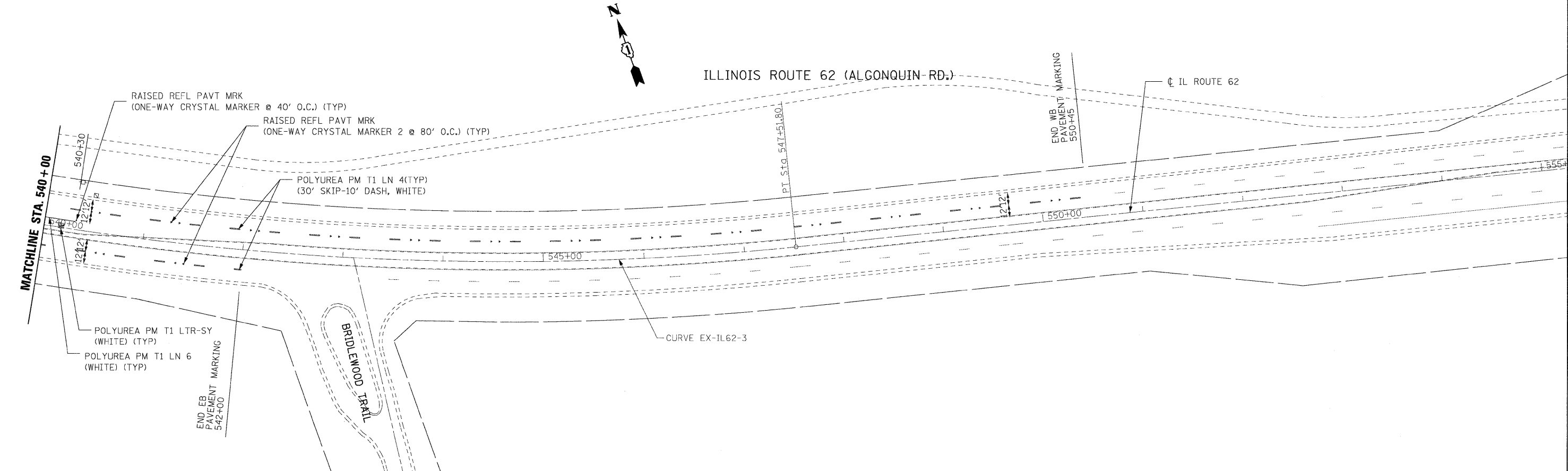
1. REFER TO DISTRICT 1 DETAILS "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" AND "TYPICAL PAVEMENT MARKING" FOR ADDITIONAL INFORMATION.
2. POLYUREA PAVEMENT MARKINGS SHALL BE USED ON ALL CONCRETE SURFACES.

ILLINOIS ROUTE 62 (ALGONQUIN RD.)

DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	
NO.	



DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	
NO.	



FILE NAME =
...D160136-sh-t-pmk_03.dgn



DESIGNED	ADW	REVISED	-
DRAWN	MHL	REVISED	-
CHECKED	RJD	REVISED	-
DATE	JUNE 30, 2011	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
PAVEMENT MARKING & LANDSCAPING PLAN**

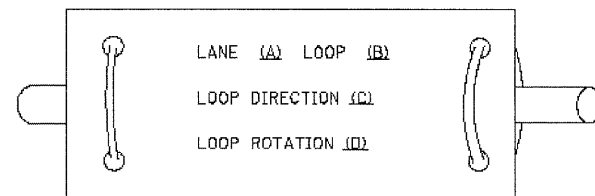
SCALE: 1"=50' SHEET NO. 3 OF 3 SHEETS STA. 525+00 TO STA. 550+45

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	47
CONTRACT NO. 60I35				
ILLINOIS FED. AID PROJECT				

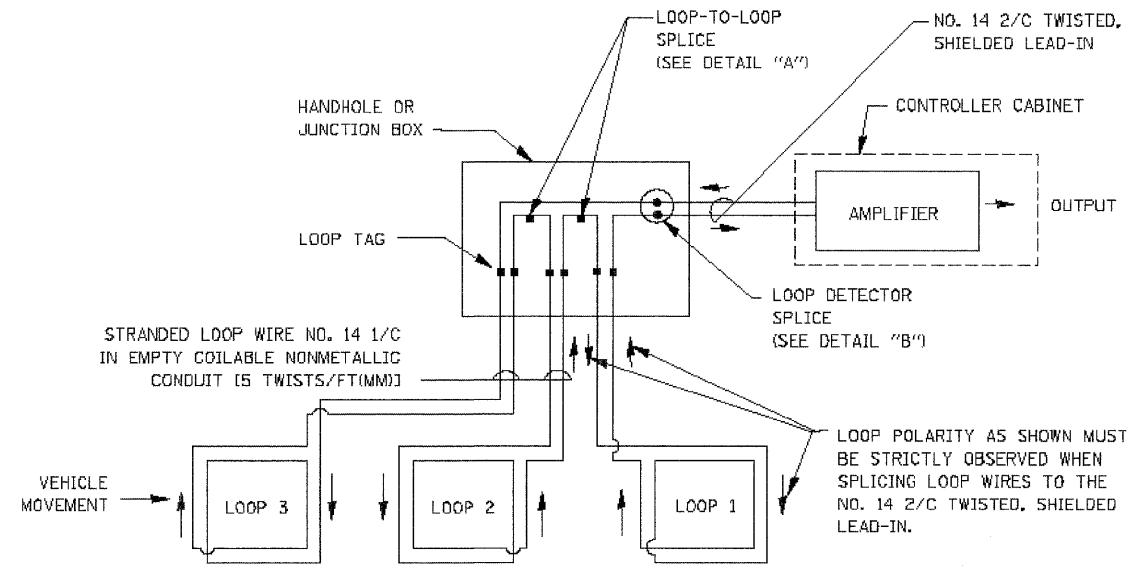
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

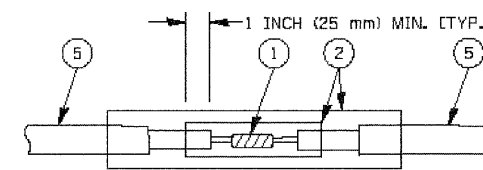


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

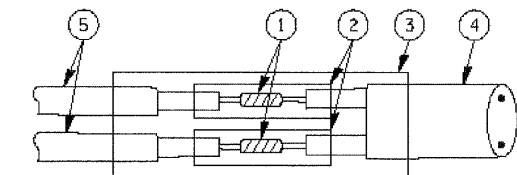


DETECTOR LOOP WIRING SCHEMATIC

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

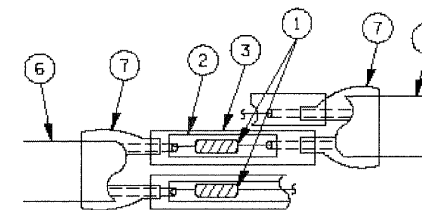


**DETAIL "A"
LOOP-TO-LOOP SPLICE**

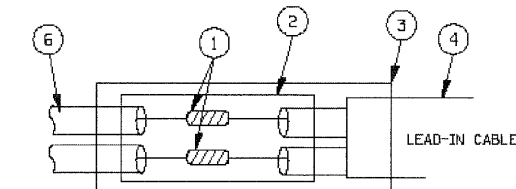


**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

TYPE I LOOP



**DETAIL "A"
LOOP-TO-LOOP SPLICE**



**DETAIL "B"
LOOP-TO-CONTROLLER SPLICE**

PREFORMED LOOP

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- 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 = karthaphysaybe	DESIGNED - DAD	REVISED -
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		CHECKED - DAD	REVISED -
		DATE - 10/28/09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

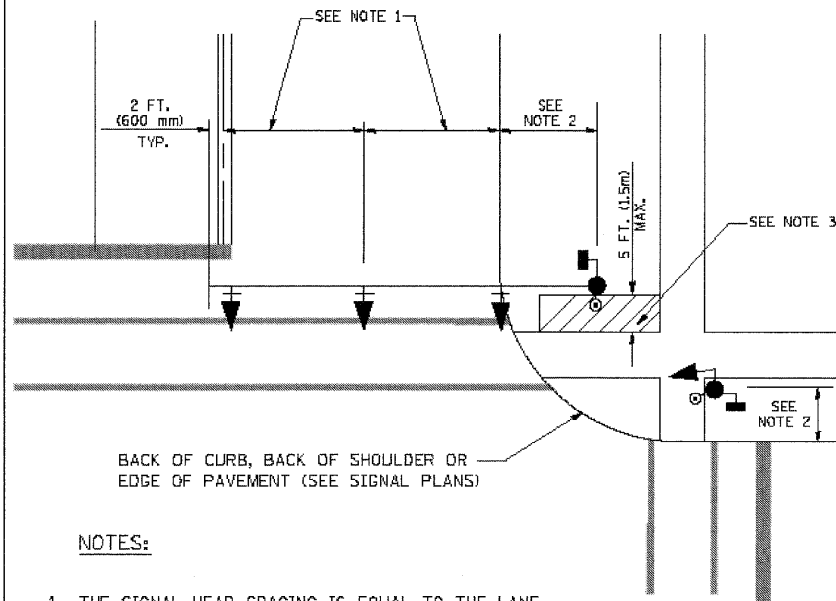
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	48
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 60135	

SCALE: SHEET NO. 1 OF 6 SHEETS STA. TO STA.

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

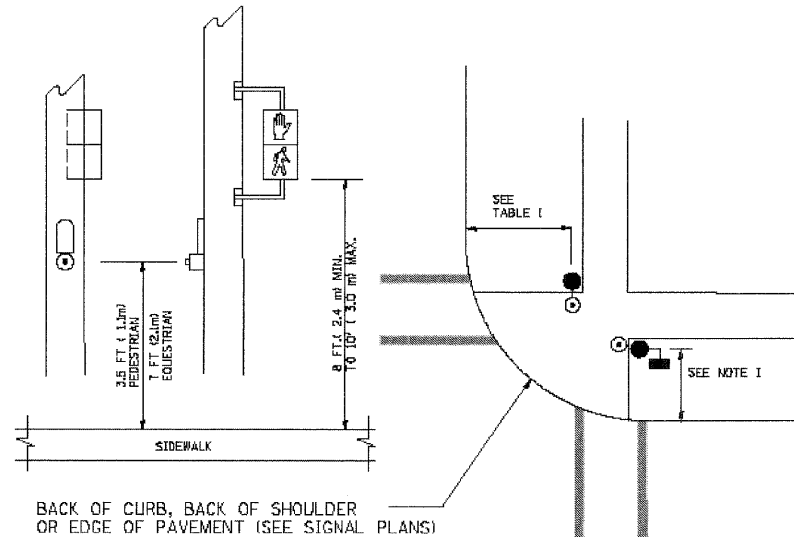
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

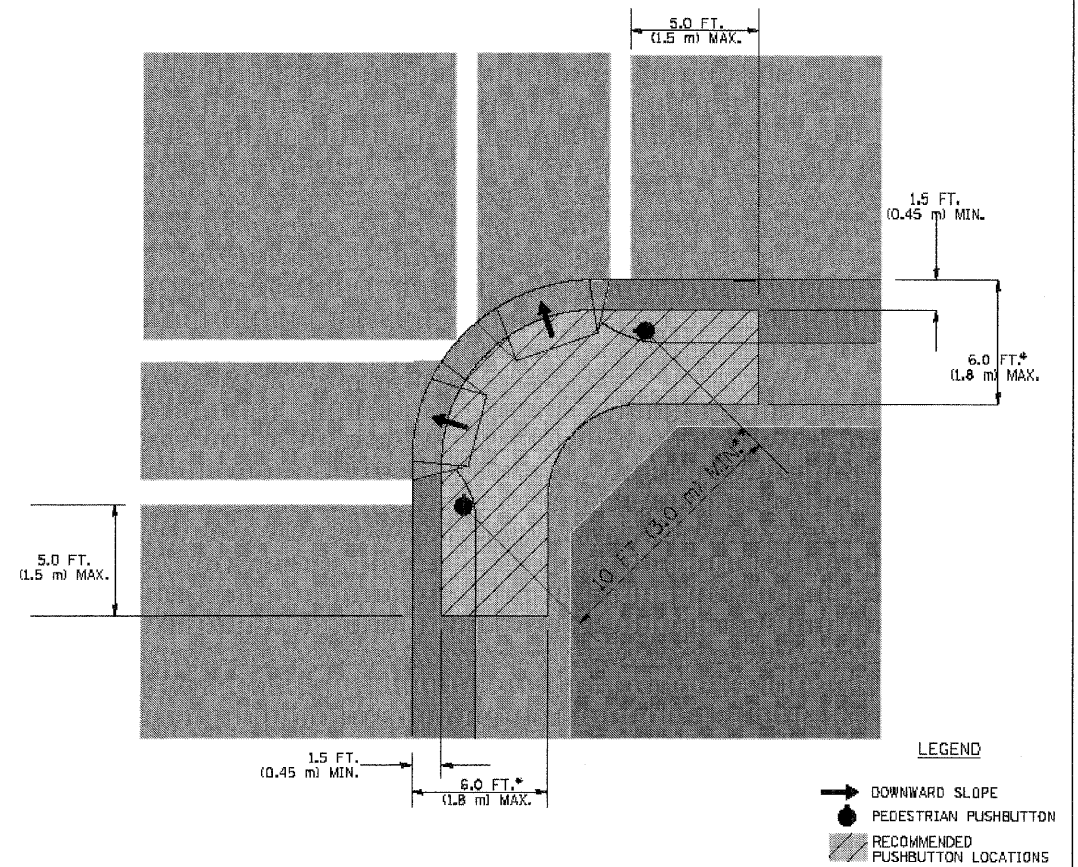
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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:

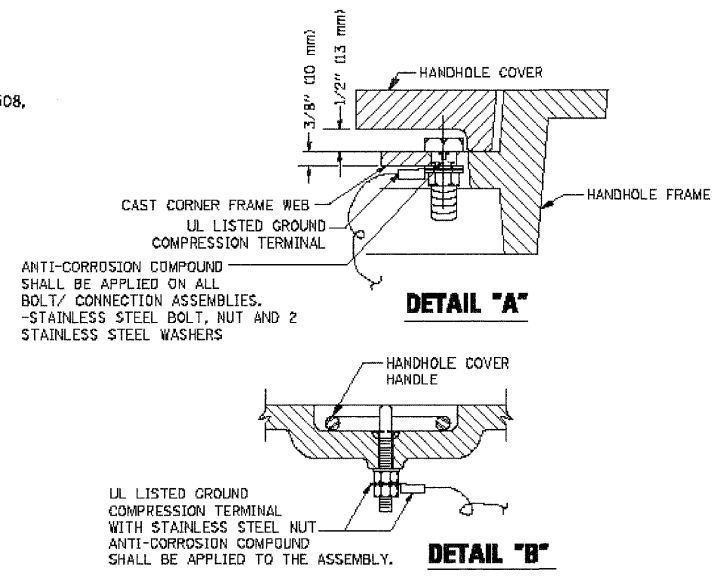
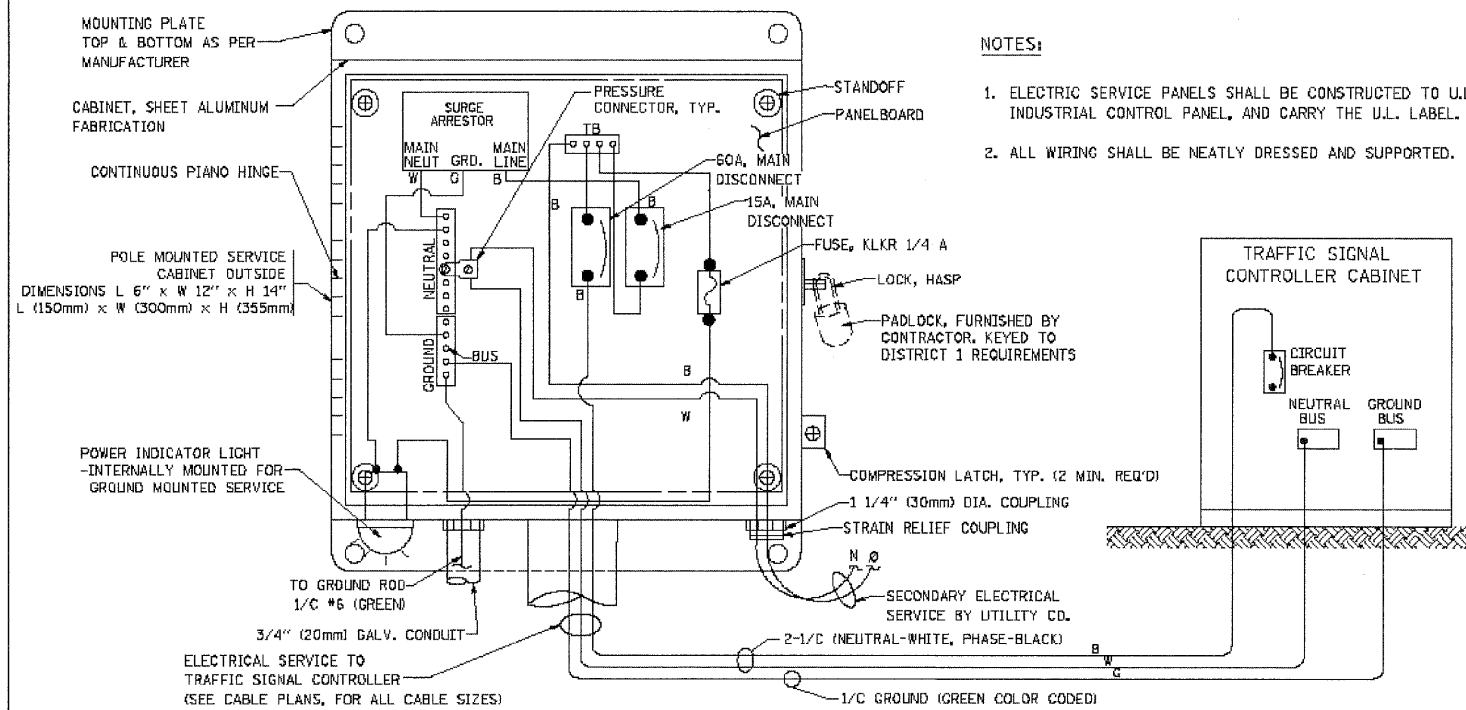
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM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

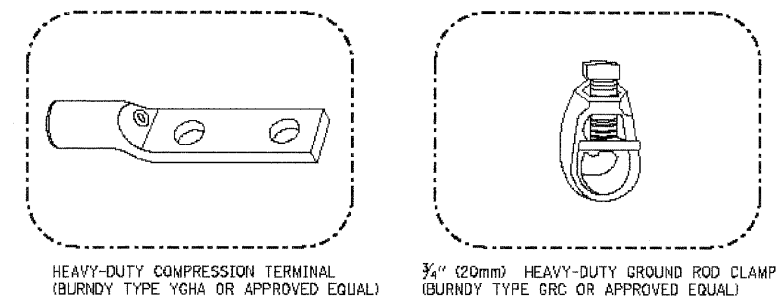
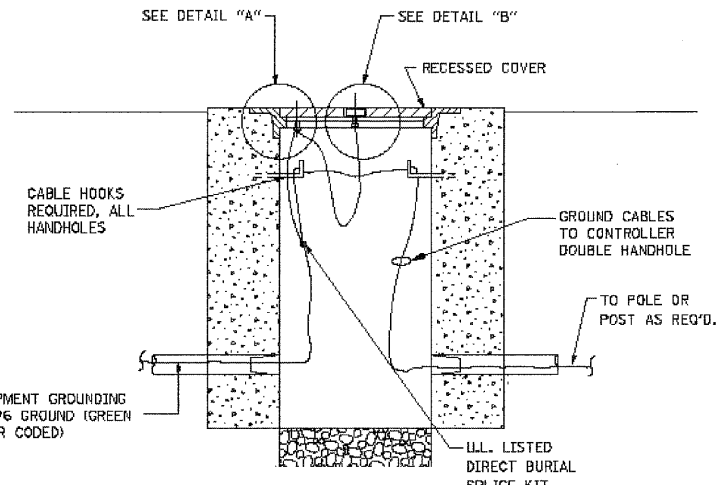
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM 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.



NOTES:

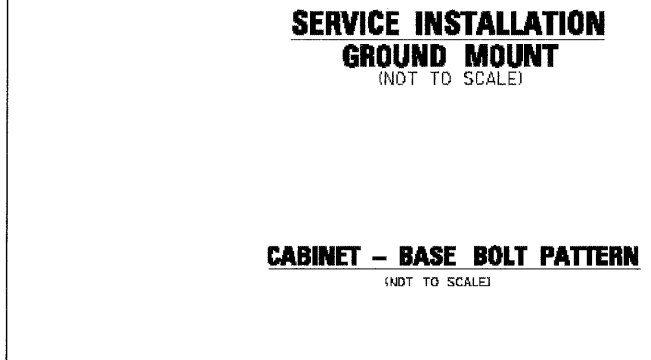
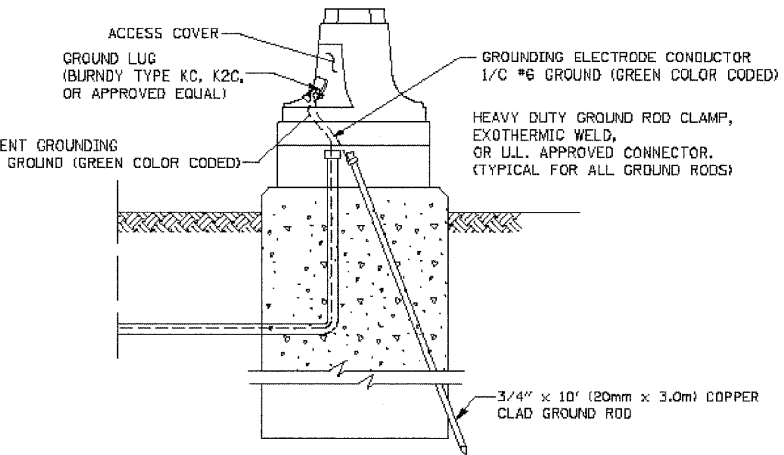
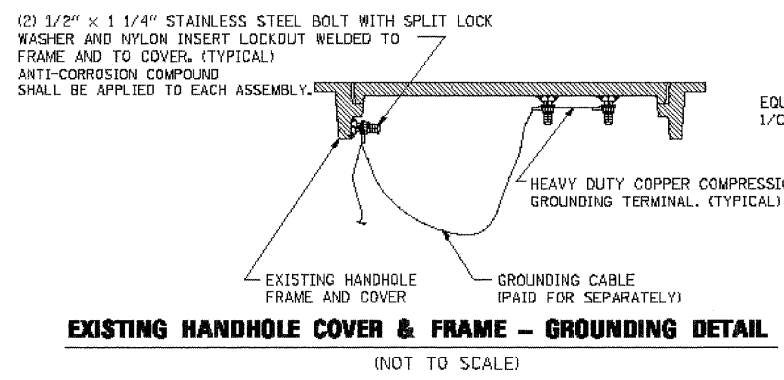
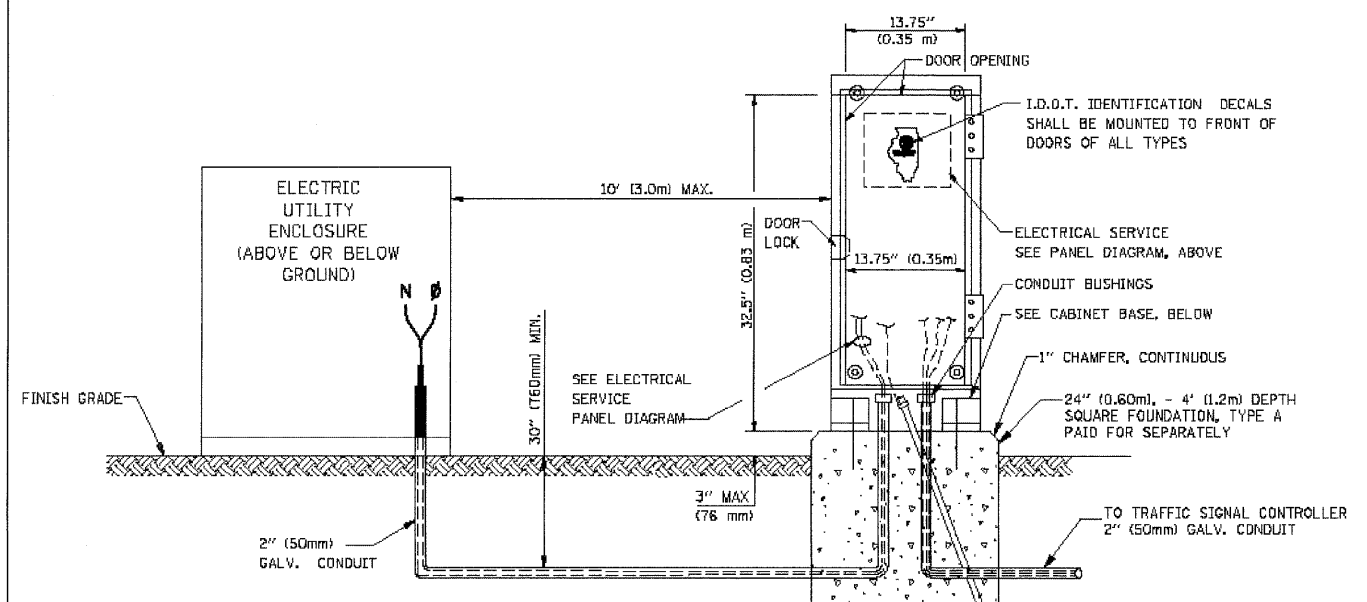
GROUNDING SYSTEM

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

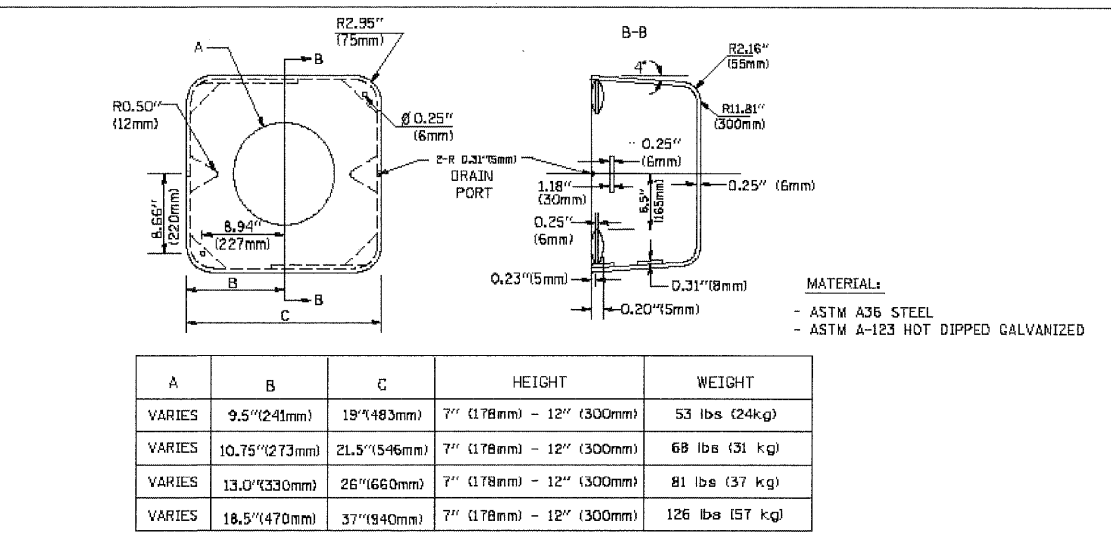
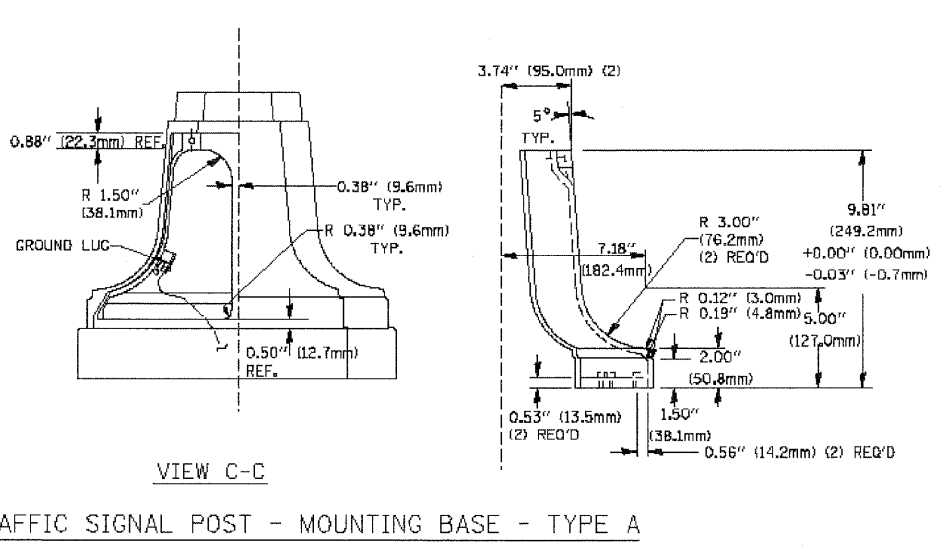
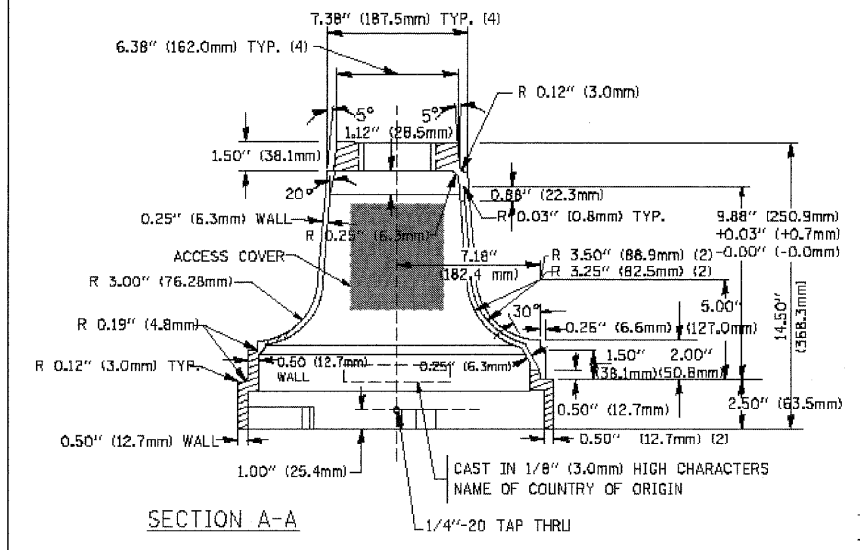
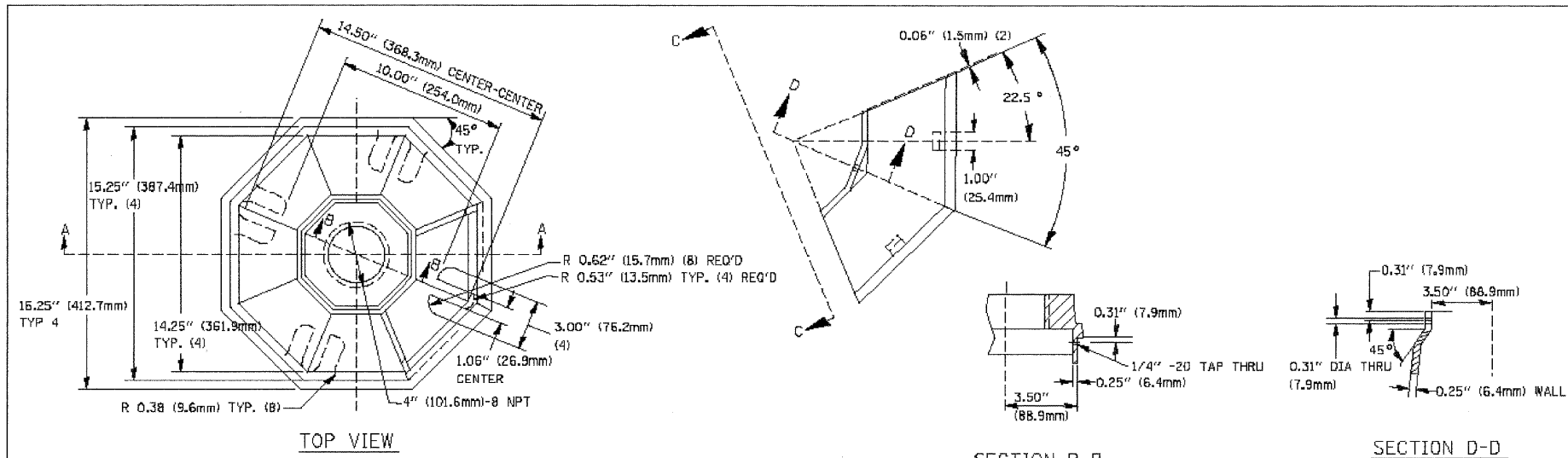


NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, U.L. 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.



FILE NAME =	USER NAME = kenthaphaybo	DESIGNED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
en:\pw\work\p\1007\KANTHAPHIX4YBC\d011254\traffsig_legend.v7.dgn		DRAWN - BCK	REVISED -			339	116 Y-1-R-1	COOK	122	50	
PLOT SCALE = 28.0000 / 1" = 1'		CHECKED - DAD	REVISED -			CONTRACT NO. 60135					
PLOT DATE = 10/15/2009		DATE - 10/28/09	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
				SCALE:	SHEET NO. 3 OF 6 SHEETS	STA.	TO STA.				

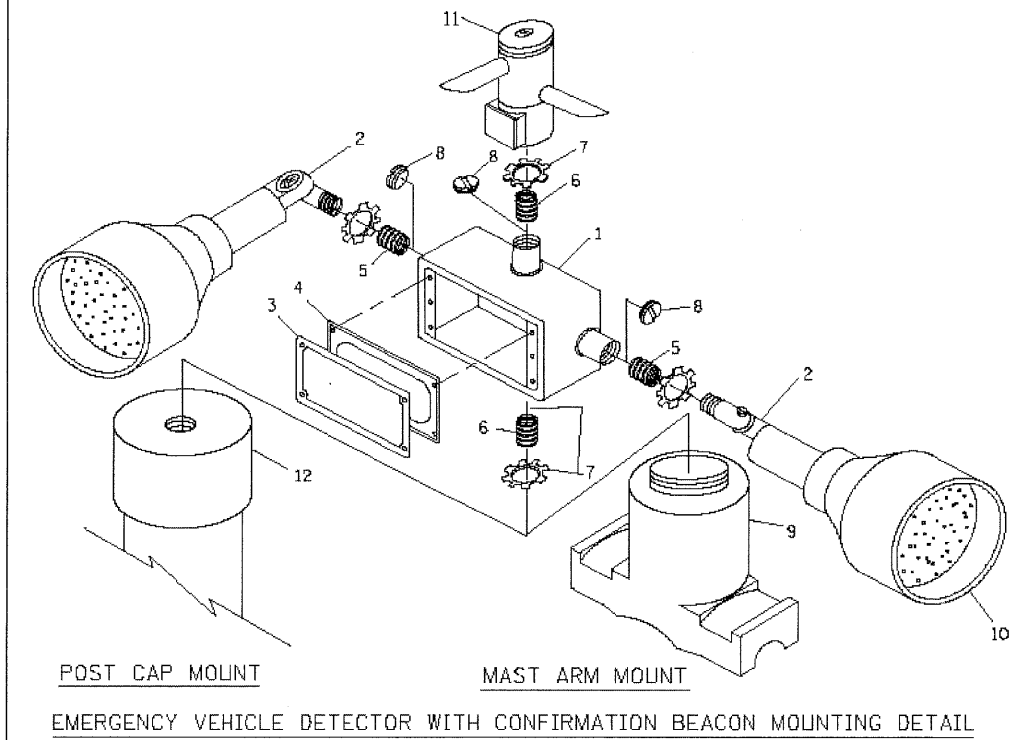
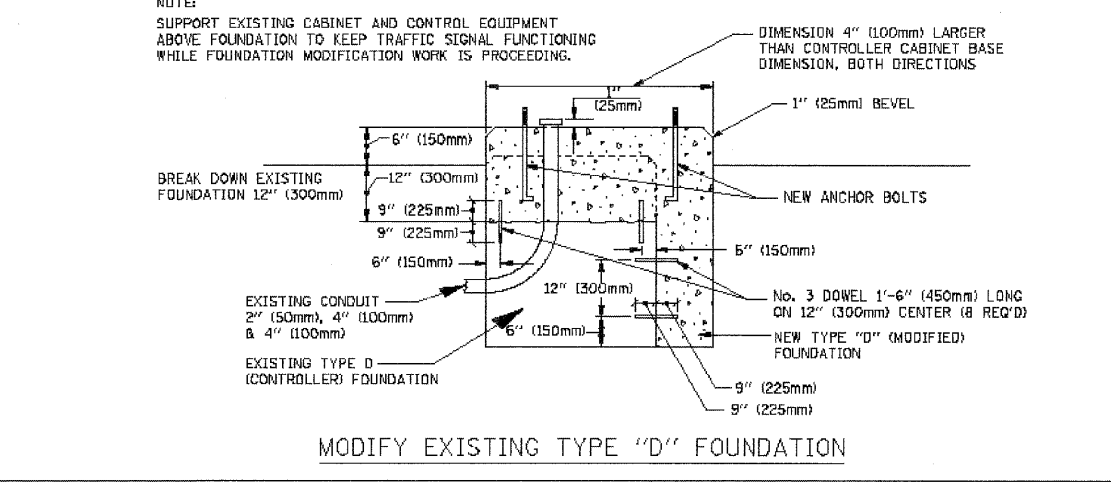


SHROUD

NOTES:

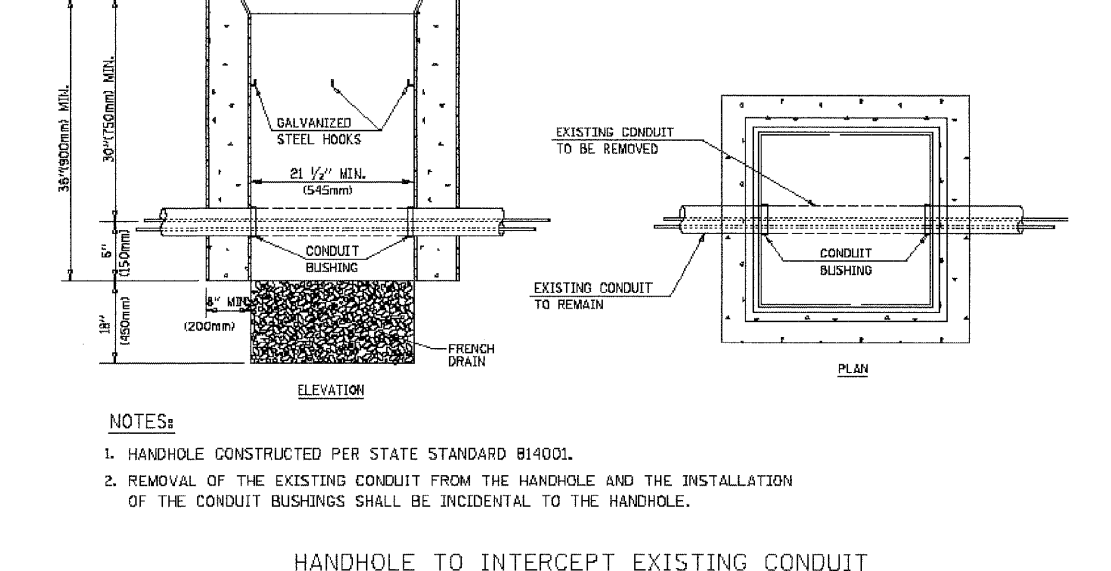
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

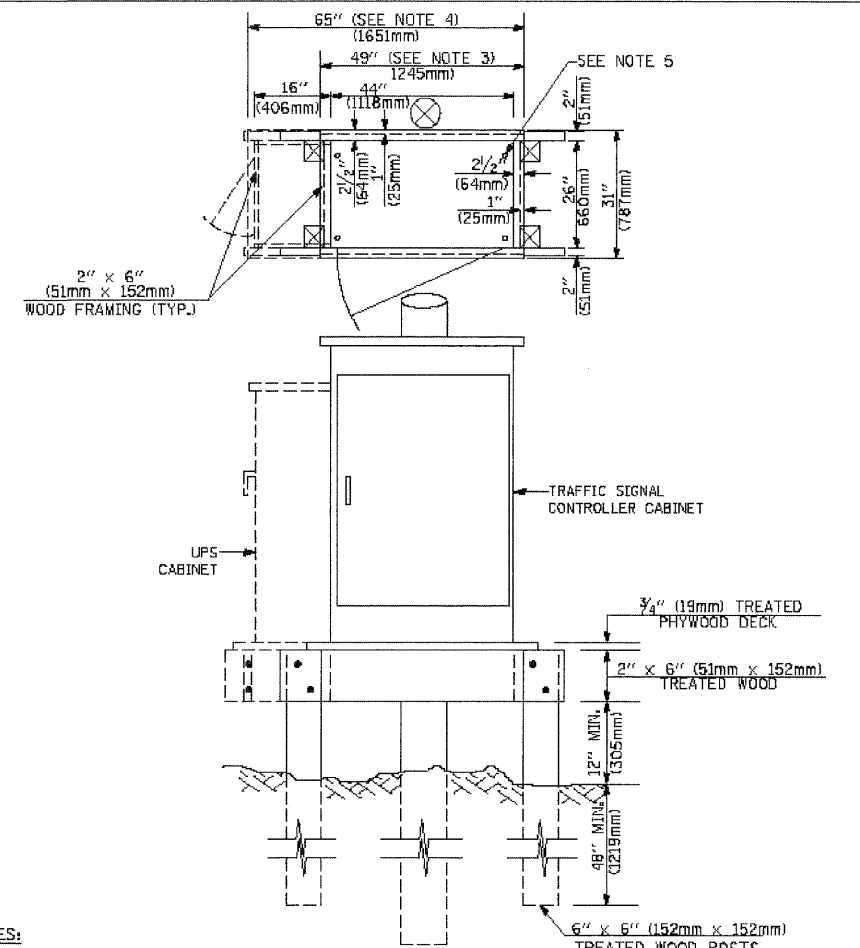
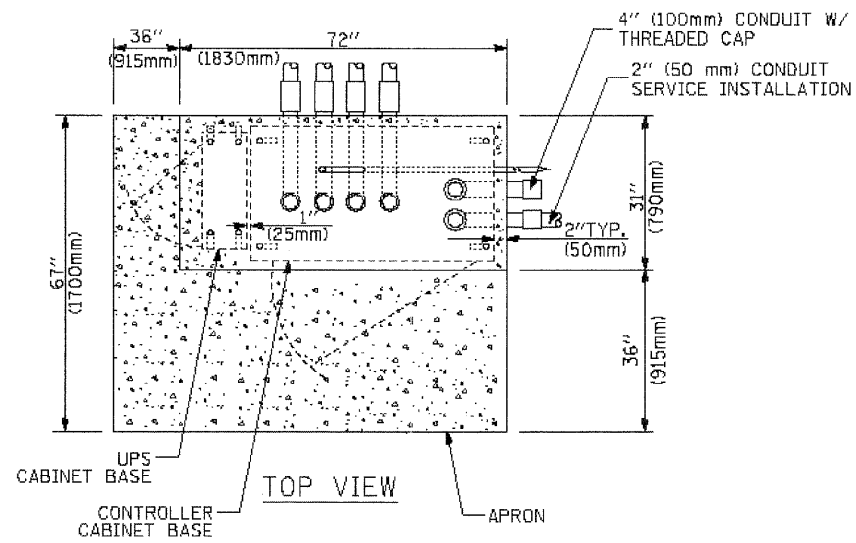
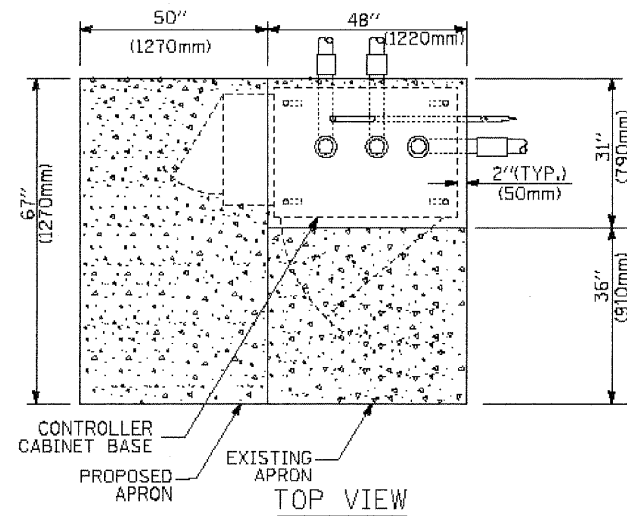
A	B	C	HEIGHT	WEIGHT
VARIES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126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



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

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

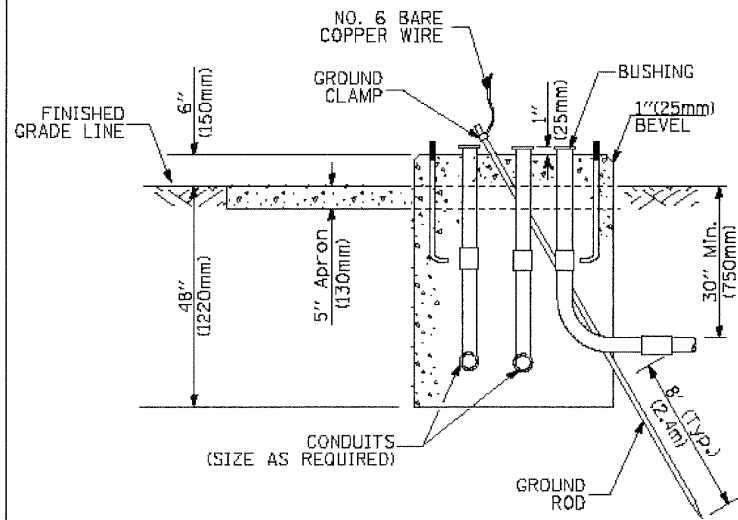




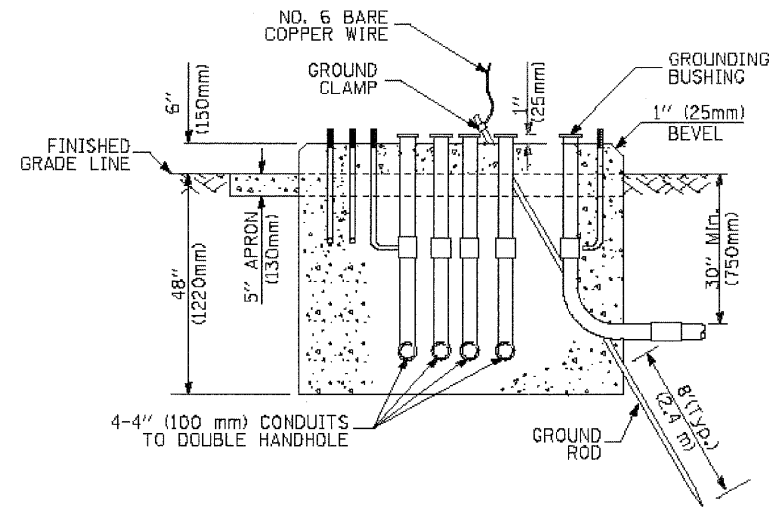
NOTES:

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

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM



TYPE D FOR GROUND MOUNTED CONTROLLER CABINET AND UPS BATTERY CABINET



TYPE C FOR GROUND MOUNTED CONTROLLER CABINET AND UPS BATTERY CABINET

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	1.5

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	FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m) and up to 85' (25.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard B78001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME =	USER NAME = kenthephisyba	DESIGNED - DAG	REVISED -
op:\pw\mark\PW1007\KANTHAPHIDAYBC\081209\4-traffic_legend_v7.dgn		DRAWN - BCK	REVISED -
PLT SCALE = 28.0000' / 1"4		CHECKED - DAD	REVISED -
PLT DATE = 10/8/2009		DATE = 10/28/09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE:	SHEET NO. 5 OF 6 SHEETS	STA. TO STA.	F.A.P. RTE. 339	SECTION 116 Y-1-R-1	COUNTY COOK	TOTAL SHEETS 122	SHEET NO. 52
						CONTRACT NO. 60135	
						FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	

NOTES FOR TEMPORARY TRAFFIC SIGNALS

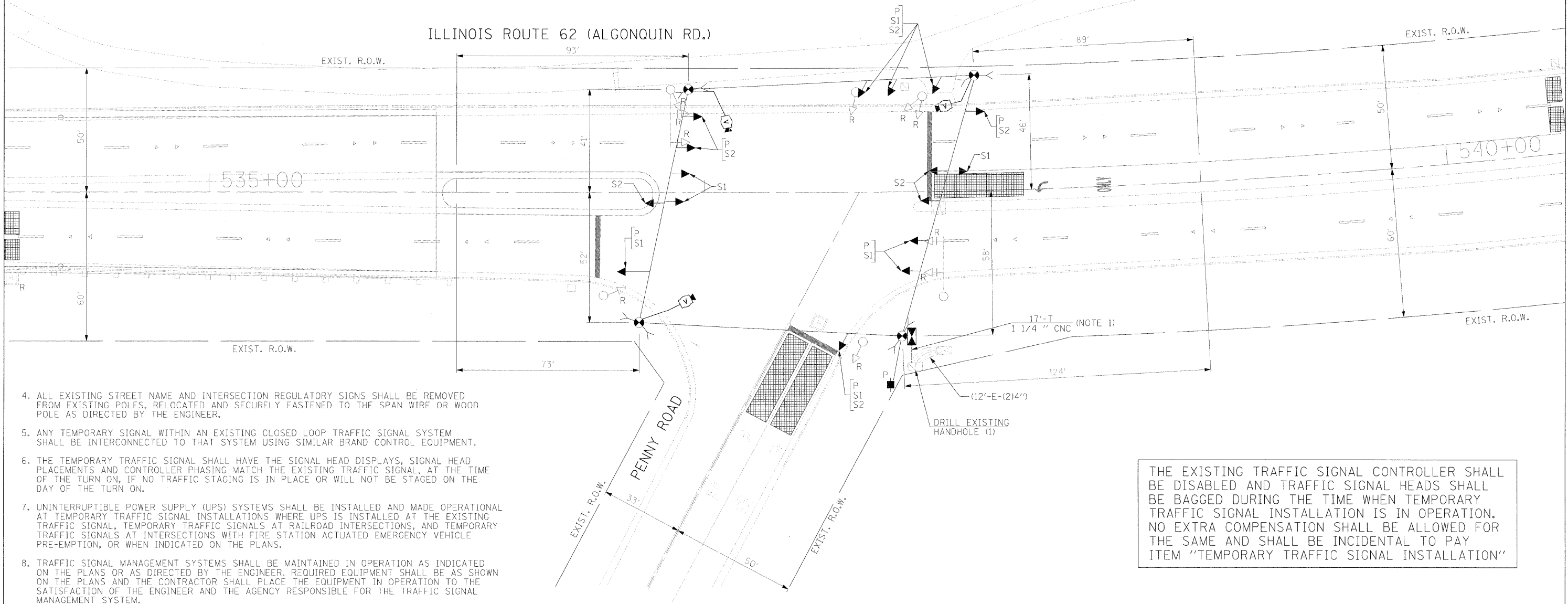
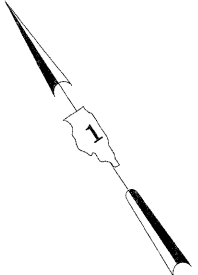
1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.

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

- | | | |
|---|------|---|
| 3 | EACH | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED |
| 3 | EACH | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED |
| 1 | EACH | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED |
| 1 | EACH | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED |
| 1 | EACH | SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED |
| 4 | EACH | TRAFFIC SIGNAL BACKPLATE, LOUVERED |

CONSTRUCTION NOTES:

- NOTE 1: INSTALL TEMPORARY INTERCONNECT CABLE NO. 62.5/125 12F BETWEEN THE EXISTING CONTROLLER CABINET AND THE TEMPORARY CONTROLLER CABINET. THIS WORK SHALL BE INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".
- NOTE 2: THE VIDEO DETECTION ZONES SHOWN ON THE PLANS ARE FOR PRE-CONSTRUCTION STAGE AND SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE AS A PART OF "TEMPORARY TRAFFIC SIGNAL INSTALLATION" WORK.



4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

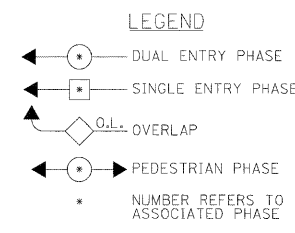
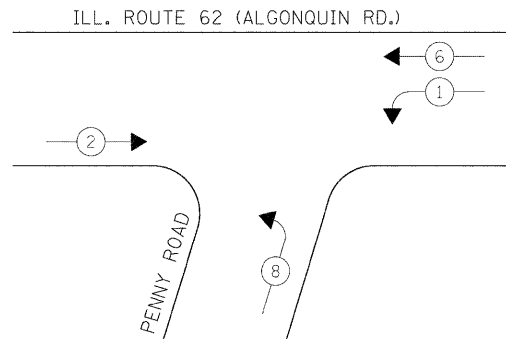
PRE-CONSTRUCTION STAGE,
STAGE 1, AND STAGE 2

THE EXISTING TRAFFIC SIGNAL CONTROLLER SHALL BE DISABLED AND TRAFFIC SIGNAL HEADS SHALL BE BAGGED DURING THE TIME WHEN TEMPORARY TRAFFIC SIGNAL INSTALLATION IS IN OPERATION. NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE SAME AND SHALL BE INCIDENTAL TO PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION"

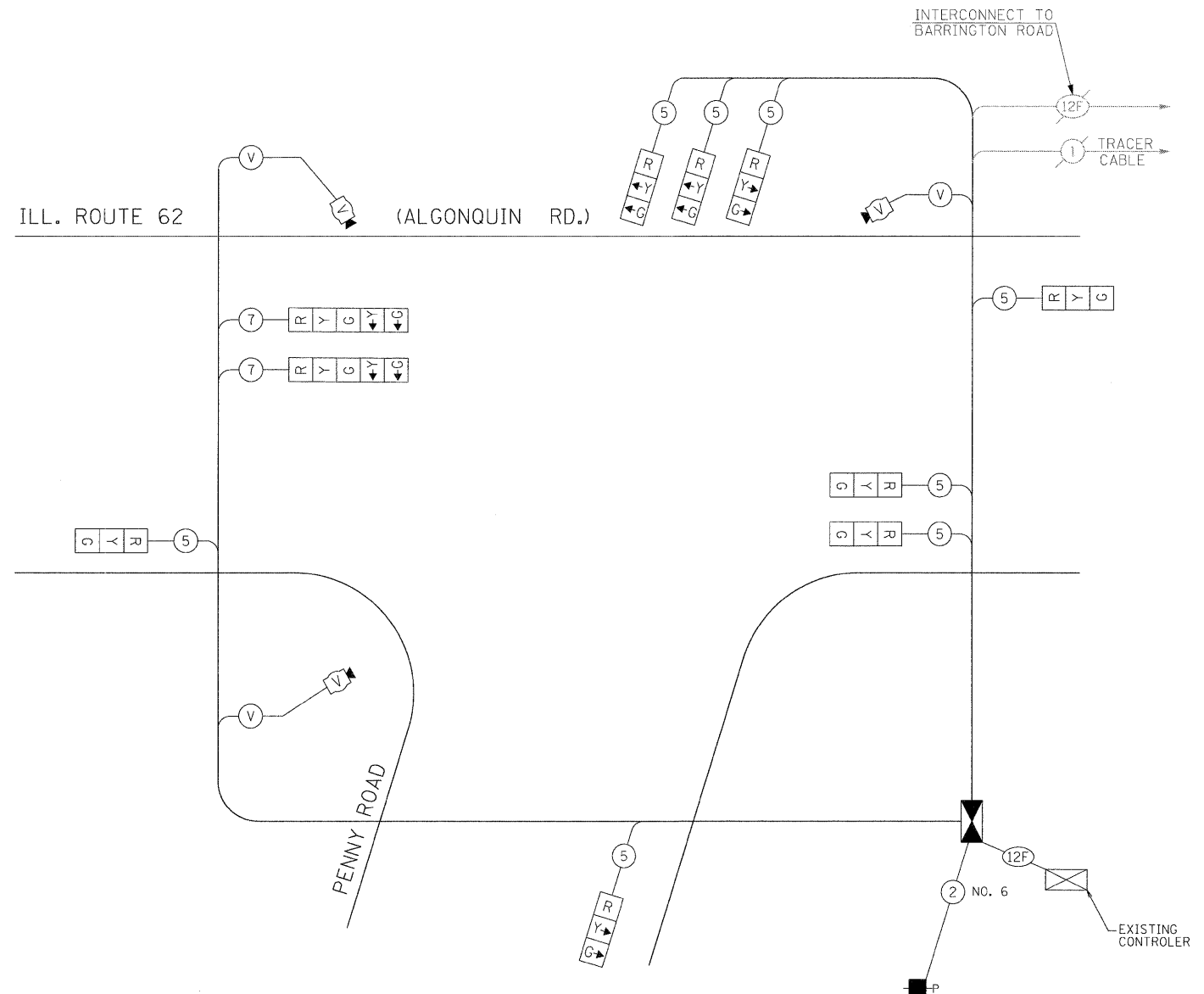
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME =	USER NAME = #USER#	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL (PARTIAL) PLAN ILLINOIS ROUTE 62 (ALGONQUIN ROAD) AT PENNY ROAD STAGE 1 AND STAGE 2 (SHEET 1 OF 2).			F.A.P. RTE. 339	SECTION 116 Y-1-R-1	COUNTY COOK	TOTAL SHEETS 122	SHEET NO. 54
#FILE#		DRAWN - EA	REVISED -		SCALE: 1"=20'	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
		CHECKED - PKG	REVISED -									
		DATE - 6/24/2011	REVISED -									
								CONTRACT NO. 60135				

CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM



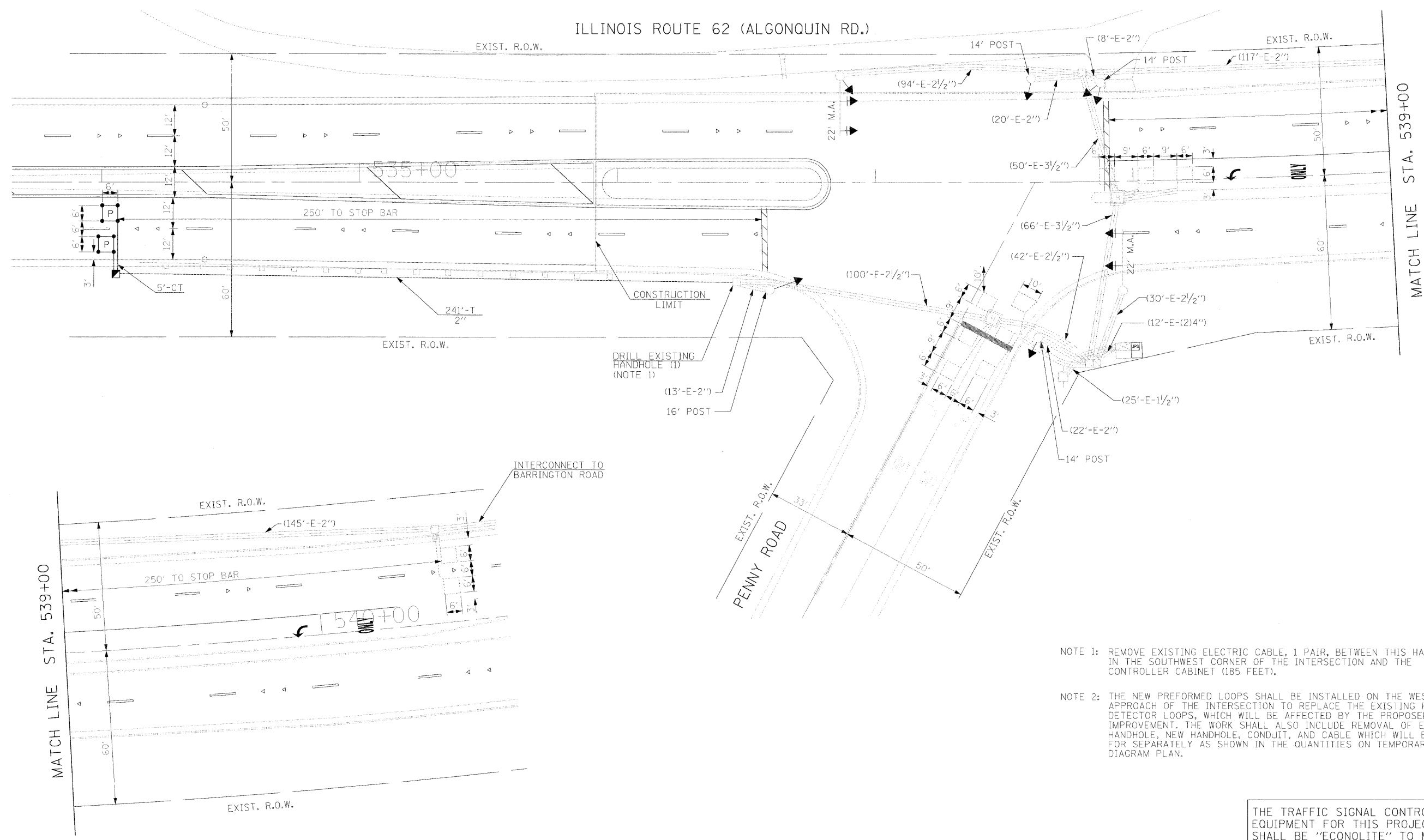
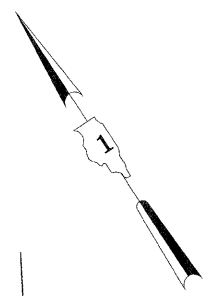
TEMPORARY CABLE PLAN
(NOT TO SCALE)
STAGE 1 AND STAGE 2

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE		%OPERATION	
		INCAND.	LED		
SIGNAL (RED)	10	135	17	0.50	85
(YELLOW)	10	135	25	0.25	62.5
(GREEN)	10	135	15	0.25	37.5
ARROW	4	135	12	0.10	4.8
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
VIDEO SYSTEM	1	150		1.00	150
FLASHER				0.50	
ENERGY COSTS TO:					TOTAL = 439.8

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: CURTIS TOPPS
PHONE: (630) 691-4356
COMPANY: COMMONWEALTH EDISON

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



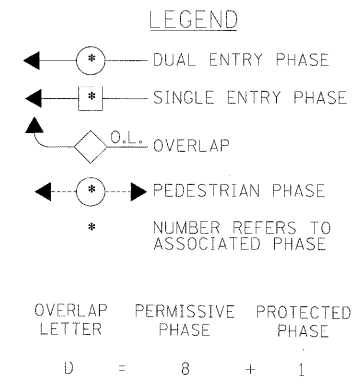
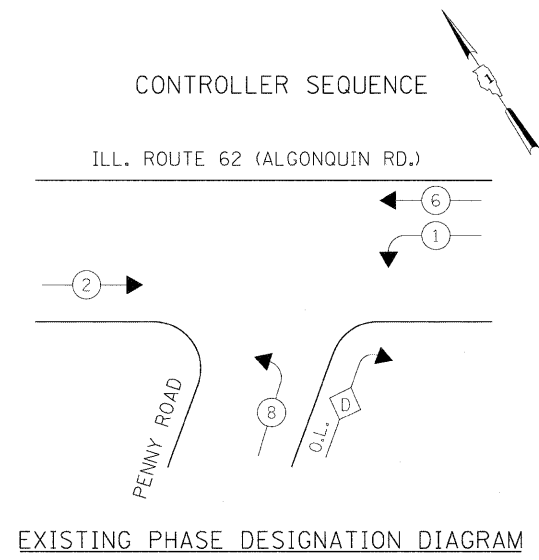
DRILL EXISTING HANDHOLE (1)
(NOTE 1)

NOTE 1: REMOVE EXISTING ELECTRIC CABLE, 1 PAIR, BETWEEN THIS HANDHOLE IN THE SOUTHWEST CORNER OF THE INTERSECTION AND THE CONTROLLER CABINET (185 FEET).

NOTE 2: THE NEW PREFORMED LOOPS SHALL BE INSTALLED ON THE WEST APPROACH OF THE INTERSECTION TO REPLACE THE EXISTING FAR OUT DETECTOR LOOPS, WHICH WILL BE AFFECTED BY THE PROPOSED IMPROVEMENT. THE WORK SHALL ALSO INCLUDE REMOVAL OF EXISTING HANDHOLE, NEW HANDHOLE, CONDUIT, AND CABLE WHICH WILL BE PAID FOR SEPARATELY AS SHOWN IN THE QUANTITIES ON TEMPORARY CABLE DIAGRAM PLAN.

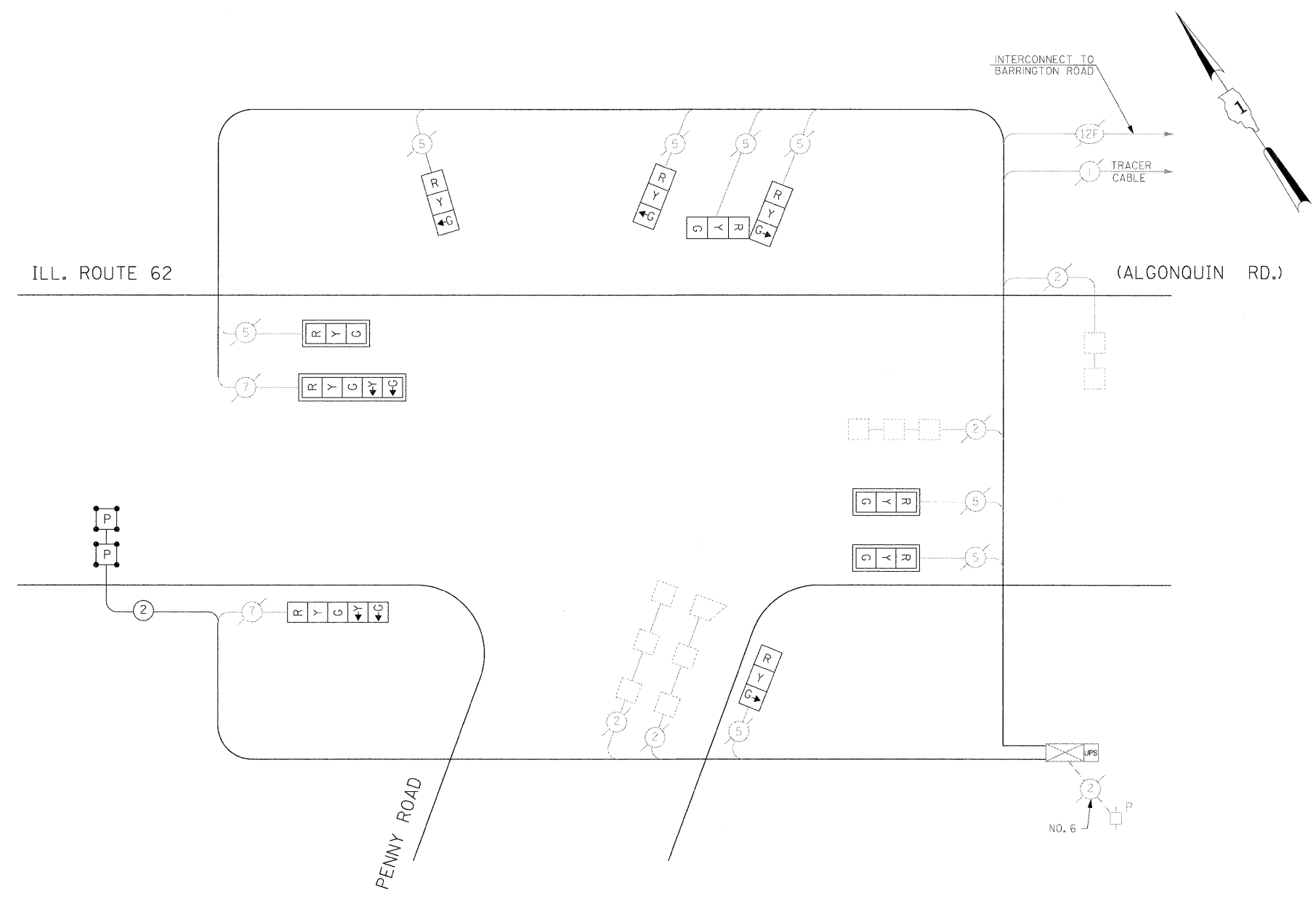
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME = #FILEL#	USER NAME = #USER#	DESIGNED - PKG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODIFICATION PLAN ILLINOIS ROUTE 62 (ALGONQUIN ROAD) AT PENNY ROAD		F.A.P. RTE. 339	SECTION 116 Y-1-R-1	COUNTY COOK	TOTAL SHEETS 122	SHEET NO. 56
	PLOT SCALE = #SCALE#	DRAWN - EA	REVISED -		SCALE: 1"=20'	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		CONTRACT NO. 60135	
	PLOT DATE = #DATE#	CHECKED - PKG	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
		DATE - 6/24/2011	REVISED -								



SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
241	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
1	EACH	HANDHOLE
241	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
432	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
1	EACH	DRILL EXISTING HANDHOLE
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
76	FOOT	PREFORMED DETECTOR LOOP
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
185	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING HANDHOLE
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING



MODIFIED CABLE PLAN
(NOT TO SCALE)

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	10	135	17	0.50	85
(YELLOW)	10	135	25	0.25	62.5
(GREEN)	10	135	15	0.25	37.5
ARROW	4	135	12	0.10	4.8
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN			25	0.05	
FLASHER				0.50	
ENERGY COSTS TO:					TOTAL = 289.8

ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAMBERG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: CURTIS TOPPS
 PHONE: (630) 691-4356
 COMPANY: COMMONWEALTH EDISON

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

Bench Mark: IDOT Monument Number C0062-1B, Sta. 488+40, Elev. 870.47, 47.5' Rt.
Existing Structure: None

INDEX OF SHEETS

- S1 - General Plan & Elevation
- S2 - Wall Elevations
- S3 - Wall Elevations
- S4 - Retaining Wall Details
- S5 - Soil Borings 1
- S6 - Soil Borings 2
- S7 - Soil Borings 3
- S8 - Soil Borings 4

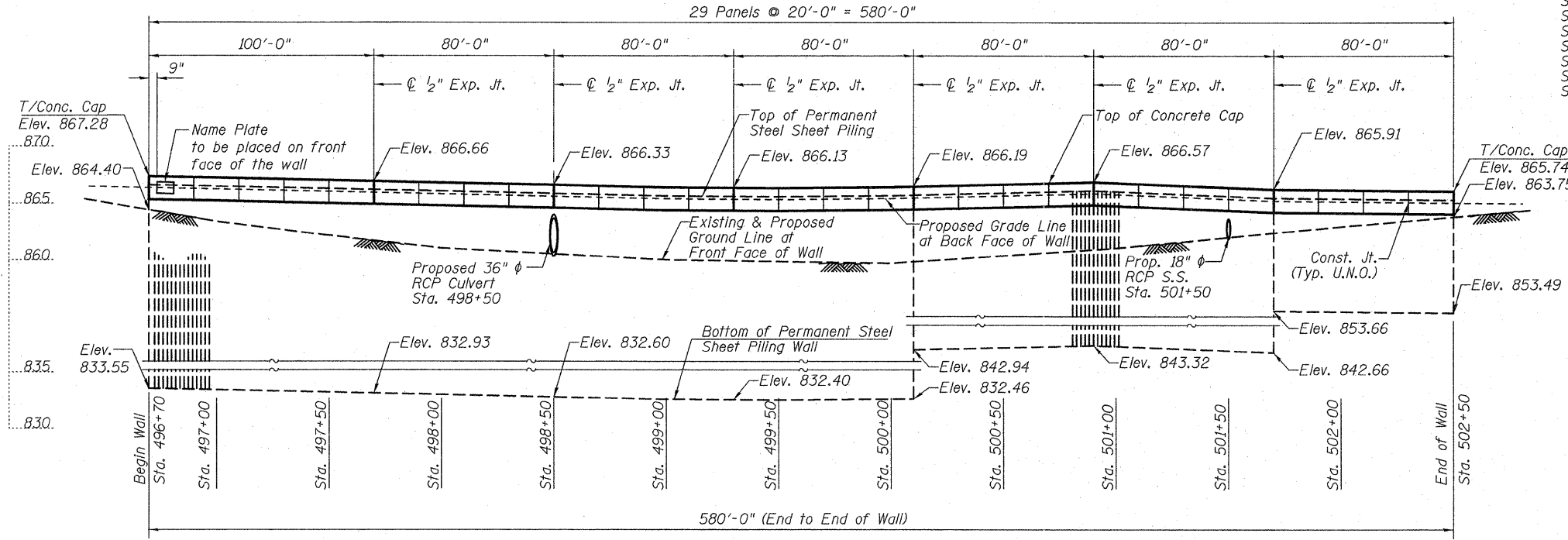
DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications, 17th Edition.

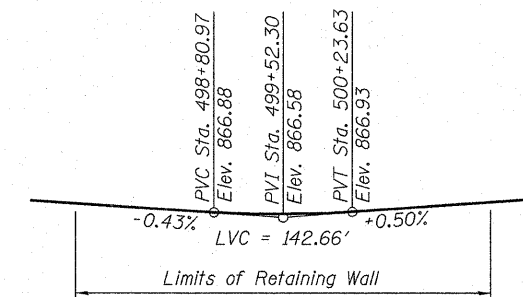
DESIGN STRESSES

Design Soil Equivalent Fluid Pressure = 40 pcf
 $f_y = 38,500$ psi (Steel Sheet Pile)
 $f_y = 60,000$ psi (Reinforcement)
 $f'_c = 3,500$ psi

Permanent Steel Sheet Piling Z Shape
 Minimum Effective Section Modulus = 15.3 in.³/ft. wall



ELEVATION
(Back Face View)



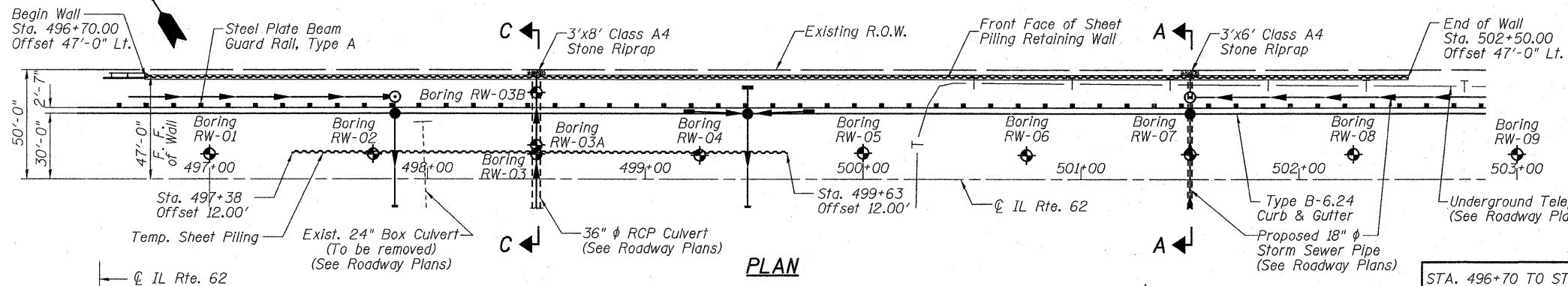
PROFILE GRADE
(Along IL 62)

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Porous Granular Embankment, Special	Cu. Yd.	150
Stone Riprap, Class A4	Sq. Yd.	5
Concrete Structures	Cu. Yd.	75.3
Stud Shear Connectors	Each	640
Reinforcement Bars, Epoxy Coated	Pound	6,610
Name Plates	Each	1
Geocomposite Wall Drain	Sq. Yd.	225
Permanent Steel Sheet Piling	Sq. Ft.	15,879
Temporary Sheet Piling	Sq. Ft.	7,595
Pipe Underdrains for Structures 4"	Foot	580

GENERAL NOTES

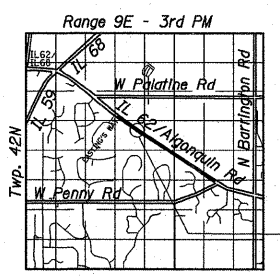
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60. See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- It shall be the Contractor's responsibility to verify the location of the existing underground utilities prior to starting construction.
- Backfill shall be in place prior to pouring of Concrete Cap.
- U. N. O. - denotes Unless Noted Otherwise
- See Sheet S4 for Section C-C.



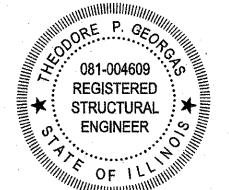
PLAN

STA. 496+70 TO STA. 502+50 (LT)
 BUILT 20L BY
 STATE OF ILLINOIS
 F.A.P. RT. 339
 SEC. 116 Y-1-R-1
 STRUCTURE NO. 016-W994

NAME PLATE
See Std. 515001



LOCATION SKETCH



Theodore P. Georgds 10-21-2011
 Theodore P. Georgds Date
 Licensed Structural Engineer
 State of Illinois 081-4609
 Expires 11/30/2012

RETAINING WALL NO. 1
STA. 496+70 TO STA. 502+50

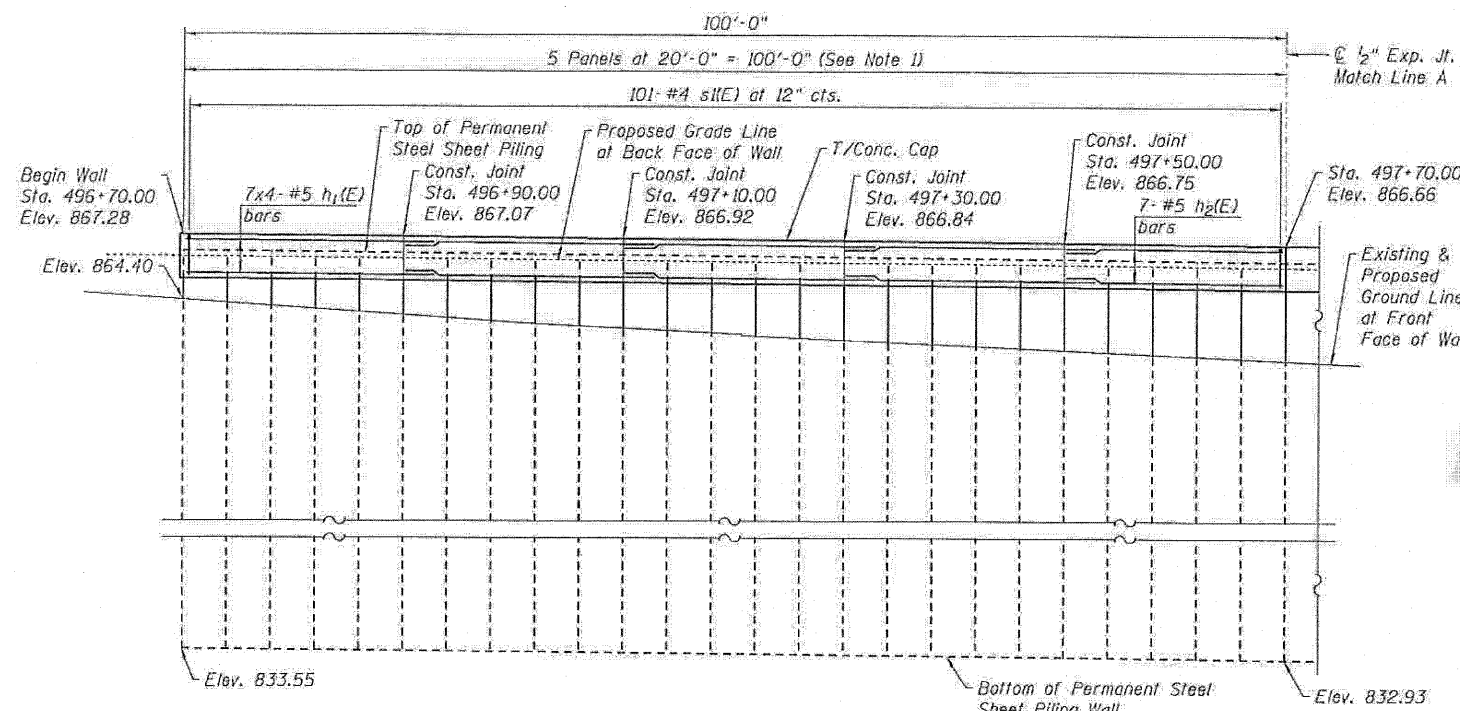


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PLOT SCALE =	CHECKED - JXH	REVISED -
PLOT DATE =	DRAWN - JPM	REVISED -
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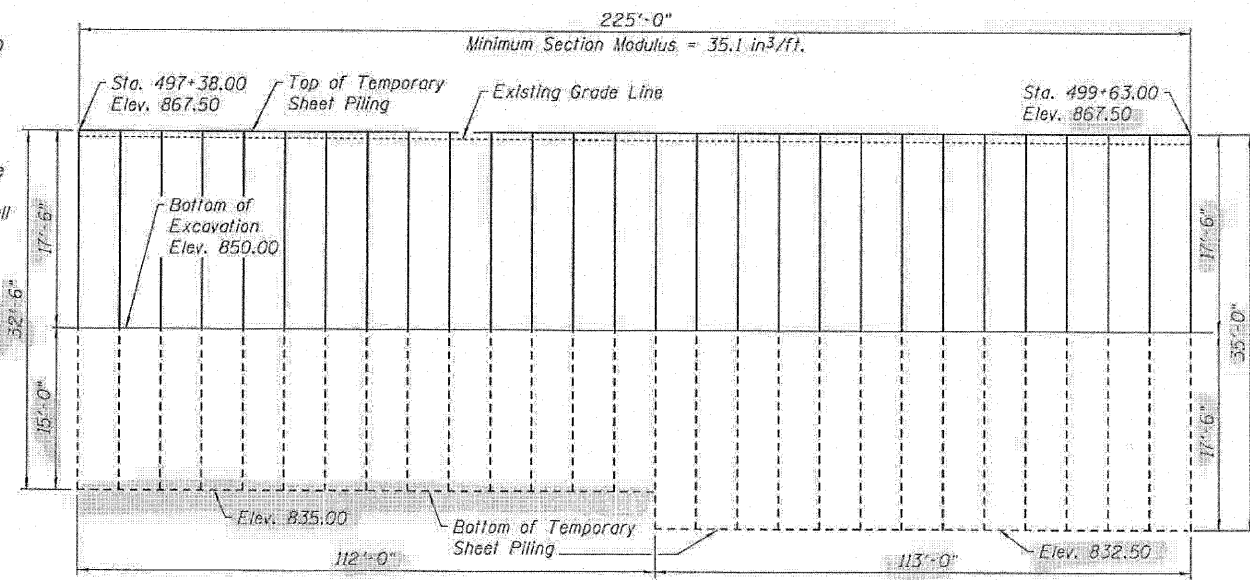
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 016-W994
 SHEET NO. S1 OF S8 SHEETS

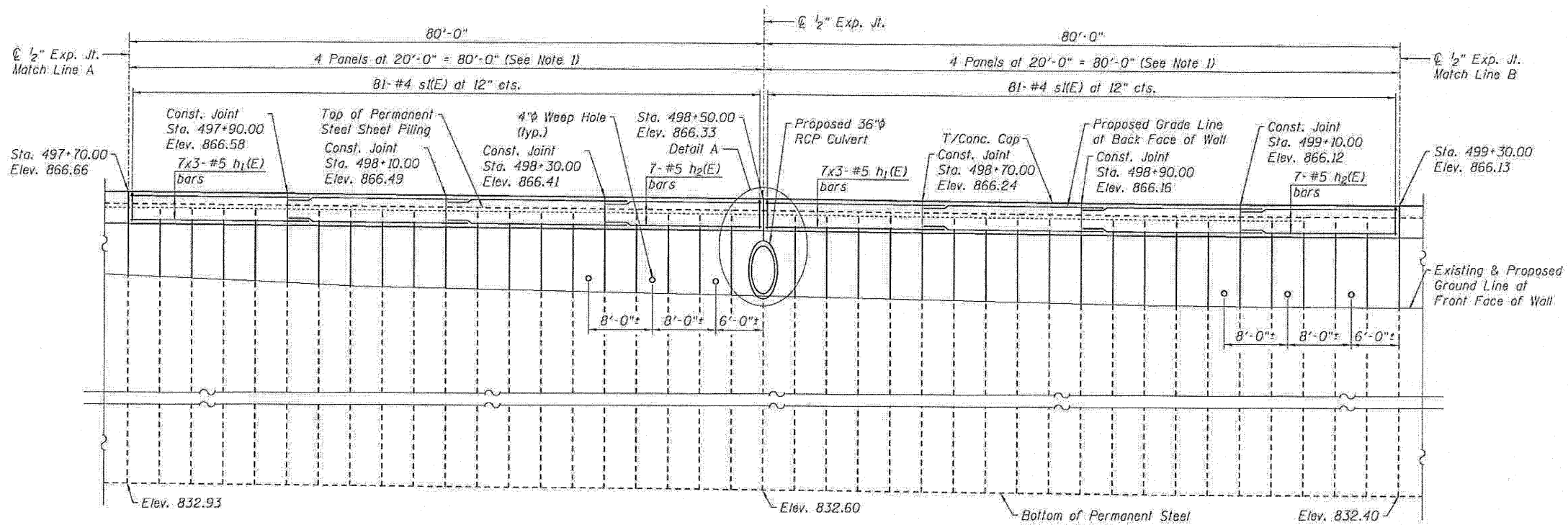
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	58
				CONTRACT NO. 60135
ILLINOIS FED. AID PROJECT				



REFLECTED ELEVATION



TEMPORARY SHEET PILING



REFLECTED ELEVATION

- Notes:
1. The Expansion Joints shall be located at the nearest sheet piling interlock to the indicated spacing shown.
 2. See Sheet S4 for Detail A.
 3. Reinforcement bars designated thus 7x3-#5, etc indicates 7 lines of bars with 3 lengths per line.



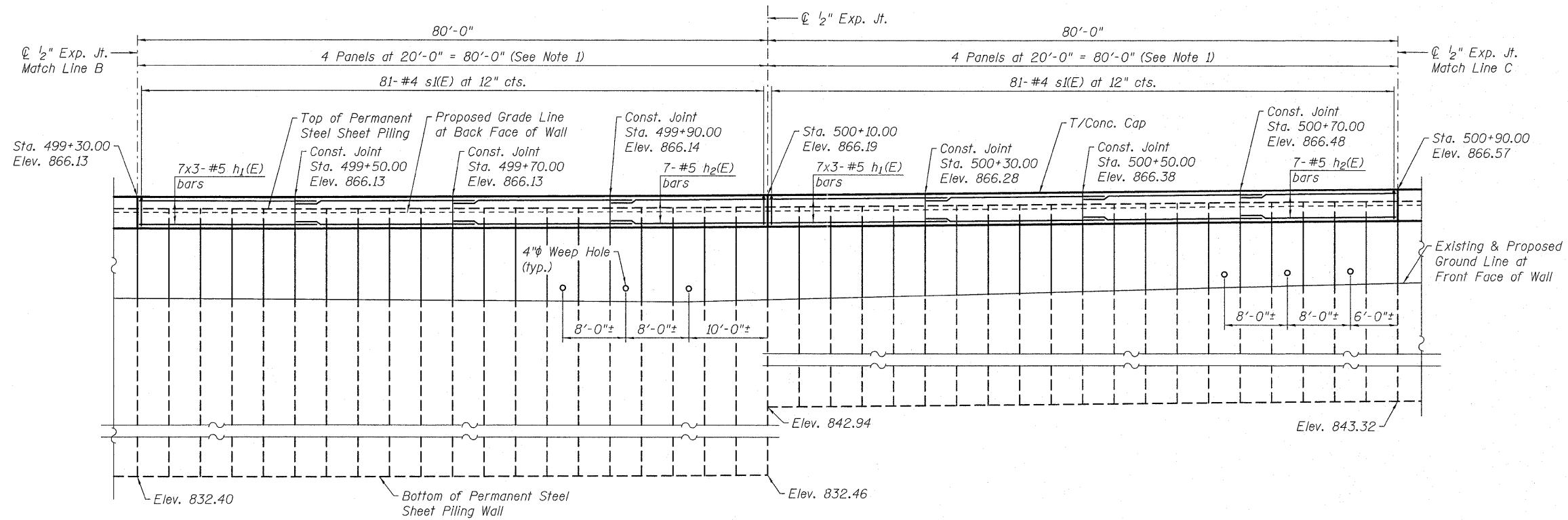
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PLOT SCALE	CHECKED - JKH	REVISED -
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	CHECKED - JXH/TPG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

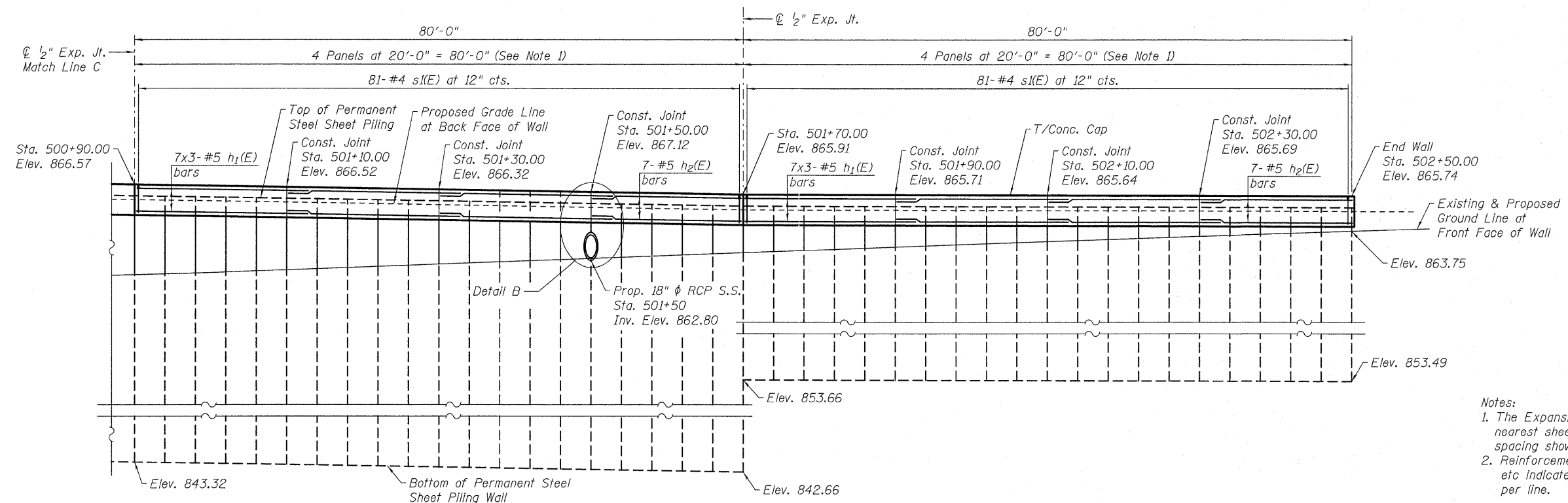
WALL ELEVATIONS
STRUCTURE NO. 016-W994

F.A.P. RTE. 339	SECTION 116 Y-1-R-1	COUNTY COOK	TOTAL SHEETS 122	SHEET NO. 59
CONTRACT NO. 60135				
ILLINOIS FED. AID PROJECT				

SHEET NO. 52 OF 58 SHEETS



REFLECTED ELEVATION



REFLECTED ELEVATION

- Notes:
1. The Expansion Joints shall be located at the nearest sheet piling interlock to the indicated spacing shown.
 2. Reinforcement bars designated thus 7x3-#5, etc indicates 7 lines of bars with 3 lengths per line.



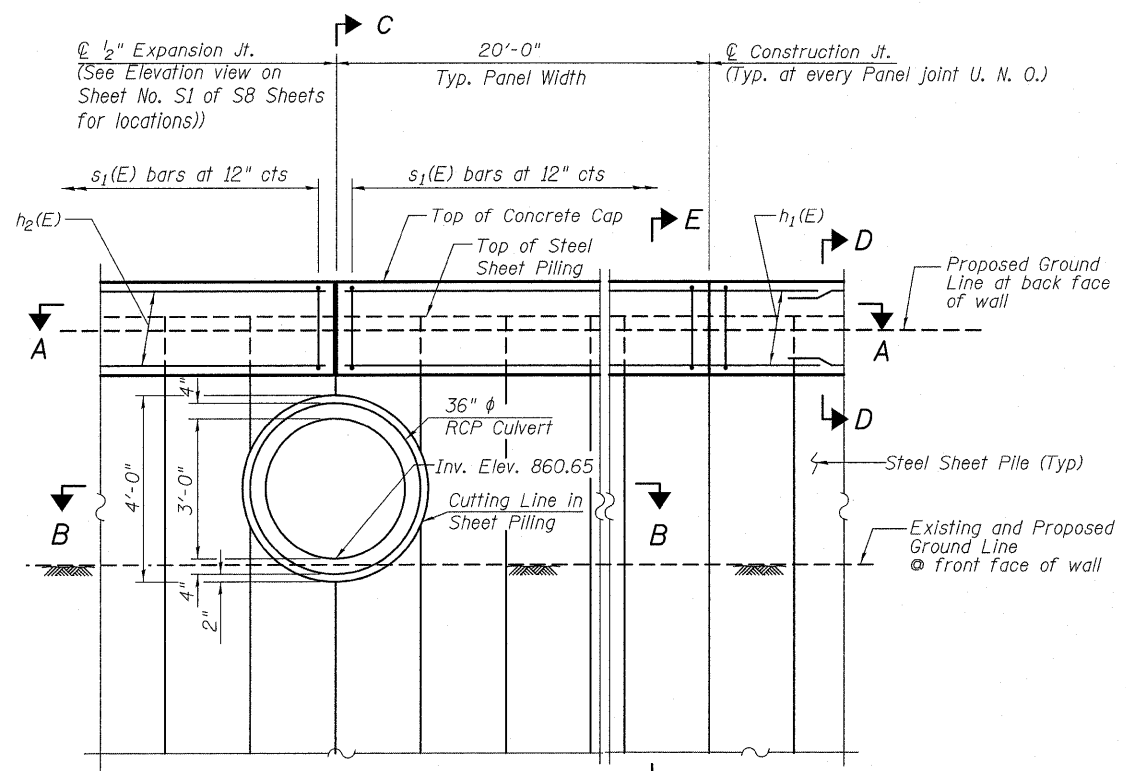
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PLOT SCALE =	CHECKED - JXH	REVISED -
PLOT DATE =	DRAWN - JPM	REVISED -
	CHECKED - JXH/TPG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL ELEVATIONS
STRUCTURE NO. 016-W994

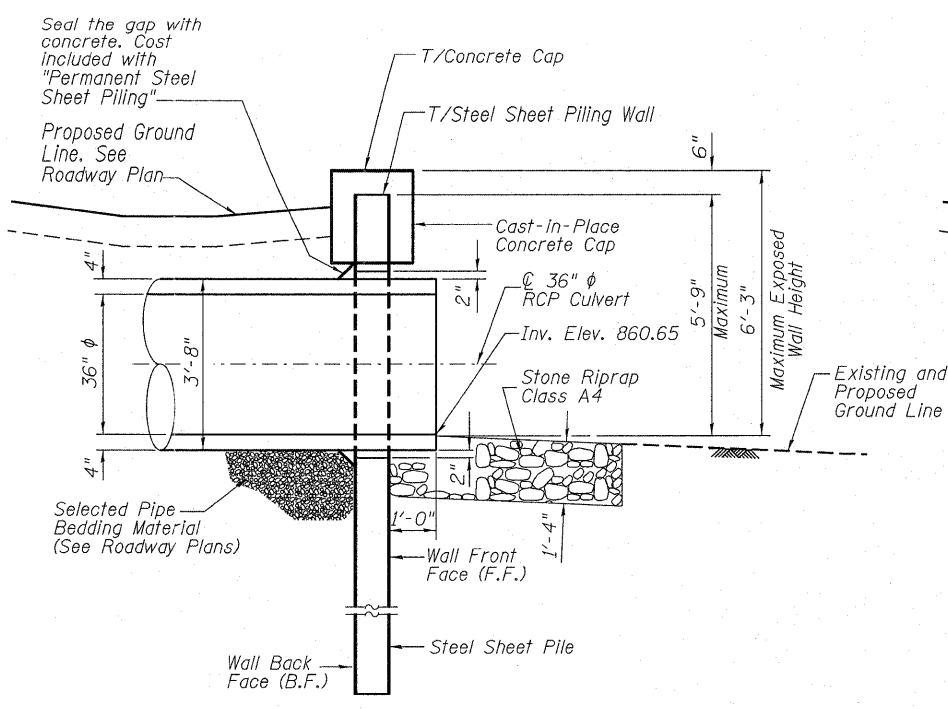
SHEET NO. 53 OF 58 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	60
CONTRACT NO. 60135				
ILLINOIS FED. AID PROJECT				

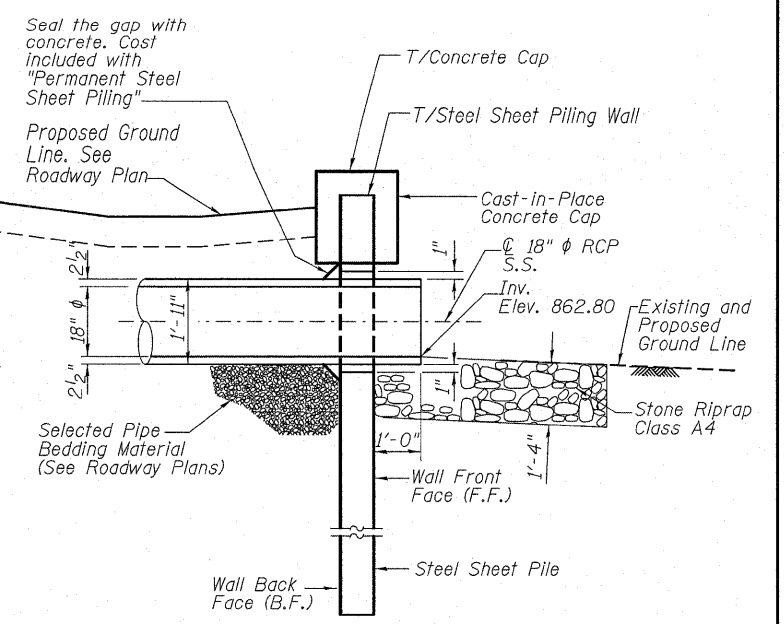


DETAIL A
(Front Face View)

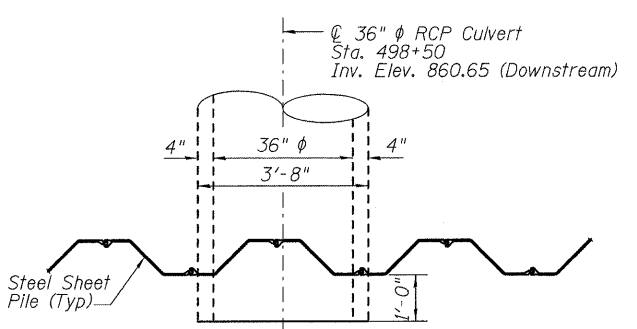
Note: The cost of cutting 48" ϕ opening in Sheet Pile Wall is included in the cost of "Permanent Steel Sheet Piling".



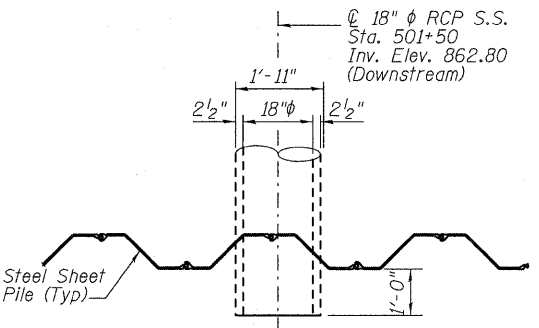
SECTION C-C



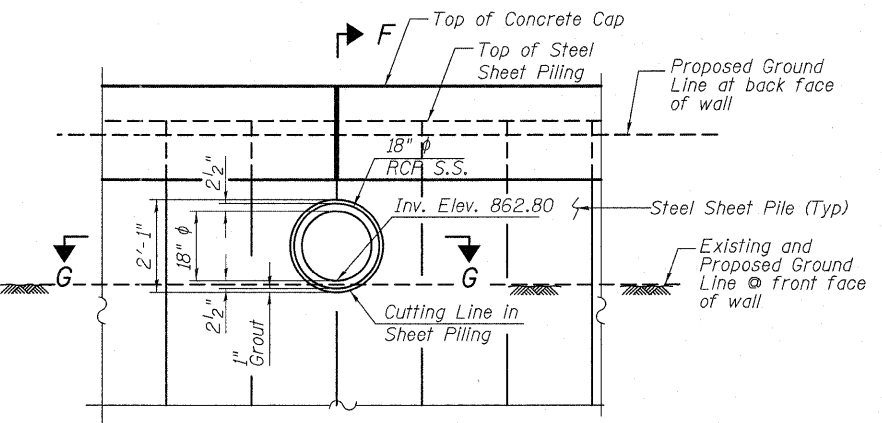
SECTION F-F



SECTION B-B

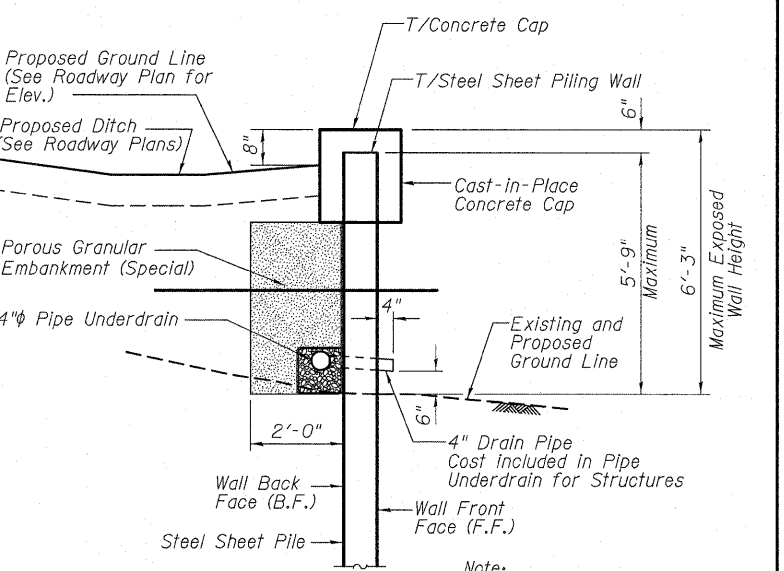


SECTION G-G

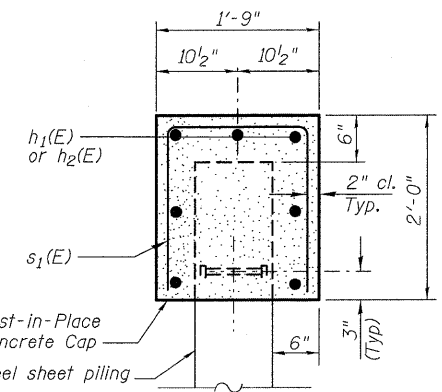


DETAIL B

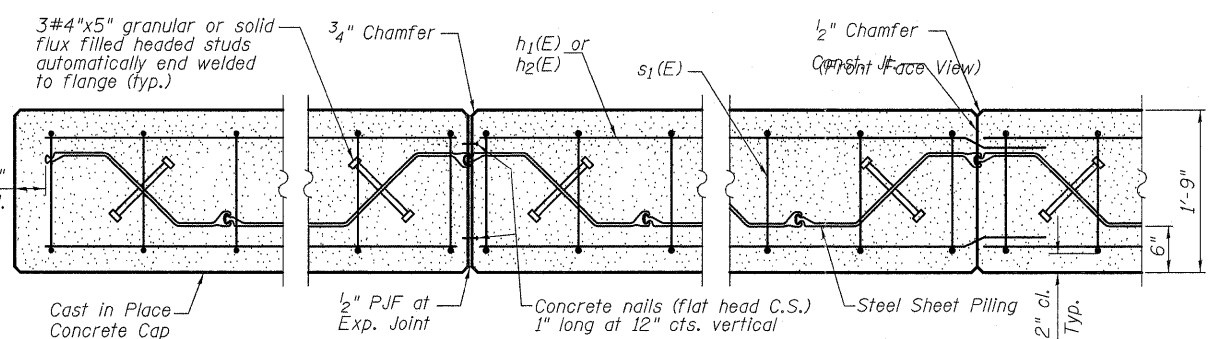
Note: The cost of cutting 25" ϕ opening in Sheet Pile Wall is included in the cost of "Permanent Steel Sheet Piling".



SECTION E-E

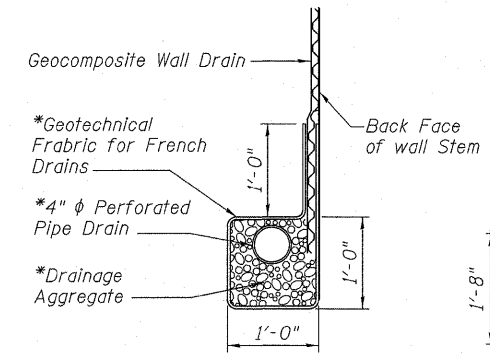


SECTION D-D

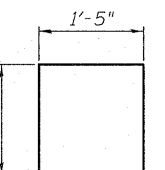


SECTION A-A

Note: The details for the concrete cap and reinforcement, and the required number of studs shear connectors are based on Section P2-22 Sheet Piling. If the Contractor chooses to use any other section, then the Contractor shall submit revised concrete cap and reinforcement configuration for approval by Engineer. Such changes shall not be cause for additional compensation.



PIPE UNDERDRAIN DETAIL



BAR s1(E)

Min. Bar Lap
#5 = 3'-3"

BAR LIST

Bar	No.	Size	Length	Shape
h ₁ (E)	154	#5	23'-3"	—
h ₂ (E)	49	#5	19'-9"	—
s ₁ (E)	587	#4	4'-9"	□



USER NAME =
DESIGNED - JPM
CHECKED - JXH
DRAWN - JPM
PLOT SCALE =
PLOT DATE =

DESIGNED - JPM
CHECKED - JXH
DRAWN - JPM
CHECKED - JXH/TPG

REVISED - 10/21/2011 M.P.S.
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL DETAILS
STRUCTURE NO. 016-W994

SHEET NO. S4 OF S8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	61

CONTRACT NO. 60135
ILLINOIS FED. AID PROJECT

RW-01

SOIL BORING LOG											
PAGE 1 of 1					PAGE 1 of 1						
DATE 4/8/2010					DATE 4/8/2010						
LOGGED BY RJ					LOGGED BY RJ						
GSI JOB No. 09177					GSI JOB No. 09177						
ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10											
SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township											
COUNTY COOK DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic											
STRUCT. NO. --		Surface Water Elev. <i>n/a</i>		D		B		U		M	
Station --		Stream Bed Elev. <i>n/a</i>		P		L		C		O	
BORING NO. RW-01		Groundwater Elevation:		T		O		S		I	
Station 497+00		First Encounter <i>n/a</i>		H		S		Qu		T	
Offset 11.5' Left		Upon Completion <i>n/a</i>		S		Qu		T		T	
Ground Surface Elev. 867.2		After Hrs.		(ft)		(/6")		(tsf)		(%)	
8.0" ASPHALT, 2.0" CRUSHED STONE, 6.0" CONCRETE 865.8											
CLAY LOAM--brown & gray--stiff (A-6) Apparent Fill											
CLAY--gray--stiff to hard (A-6)											
CLAY LOAM--brown & gray--hard (A-6)											
CLAY--gray--stiff to hard (A-6)											
End Of Boring @ -40.0 Hollow Stem Augers To -10.0' Rotary Drilling To Completion 10' Of 4.0" Casing Used CME Automatic Hammer 827.2-40 12 1.5P 28											

RW-02

SOIL BORING LOG											
PAGE 1 of 1					PAGE 1 of 1						
DATE 4/8/2010					DATE 4/8/2010						
LOGGED BY RJ					LOGGED BY RJ						
GSI JOB No. 09177					GSI JOB No. 09177						
ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10											
SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township											
COUNTY COOK DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic											
STRUCT. NO. --		Surface Water Elev. <i>n/a</i>		D		B		U		M	
Station --		Stream Bed Elev. <i>n/a</i>		P		L		C		O	
BORING NO. RW-02		Groundwater Elevation:		T		O		S		I	
Station 497+75		First Encounter <i>n/a</i>		H		S		Qu		T	
Offset 11.5' Left		Upon Completion <i>n/a</i>		S		Qu		T		T	
Ground Surface Elev. 866.5		After Hrs.		(ft)		(/6")		(tsf)		(%)	
8.0" ASPHALT, 2.0" CRUSHED STONE, 6.0" CONCRETE 865.1											
CLAY LOAM--dark brown & gray--stiff (A-6) Fill											
CLAY--gray--stiff to very stiff (A-6)											
TOPSOIL--black Total Organic Content=7.0%											
Organic SILTY CLAY--dark brown--medium stiff (A-7) Wet											
SILTY CLAY--gray--soft to medium stiff (A-6)											
CLAY--gray--stiff to very stiff (A-6)											
End Of Boring @ -40.0 Hollow Stem Augers To -10.0' Rotary Drilling To Completion 10' Of 4.0" Casing Used CME Automatic Hammer 826.5-40 13 2.25P 11											

RW-03

SOIL BORING LOG											
PAGE 1 of 1					PAGE 1 of 1						
DATE 4/8/2010					DATE 4/8/2010						
LOGGED BY MR					LOGGED BY MR						
GSI JOB No. 09177					GSI JOB No. 09177						
ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10											
SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township											
COUNTY COOK DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic											
STRUCT. NO. --		Surface Water Elev. <i>n/a</i>		D		B		U		M	
Station --		Stream Bed Elev. <i>n/a</i>		P		L		C		O	
BORING NO. RW-03		Groundwater Elevation:		T		O		S		I	
Station 498+50		First Encounter <i>n/a</i>		H		S		Qu		T	
Offset 11.5' Left		Upon Completion <i>n/a</i>		S		Qu		T		T	
Ground Surface Elev. 866.1		After Hrs.		(ft)		(/6")		(tsf)		(%)	
8.0" ASPHALT, 2.0" CRUSHED STONE, 6.0" CONCRETE 864.7											
CLAY LOAM--brown & gray--very stiff (A-6) Fill											
CLAY--gray--stiff to very stiff (A-6)											
TOPSOIL--black											
SILTY CLAY--dark gray to black--stiff (A-7) Wet											
Fibrous PEAT--dark brown to black (A-8)											
SILTY CLAY--gray--medium stiff (A-6)											
CLAY--gray--stiff to very stiff (A-6)											
End Of Boring @ -40.0 Hollow Stem Augers To -10.0' Rotary Drilling To Completion 10' Of 4.0" Casing Used CME Automatic Hammer 826.1-40 20 1.0P 25											



USER NAME =	DESIGNED - JPM	REVISED -
PLDT SCALE =	CHECKED - JXH	REVISED -
PLDT DATE =	DRAWN - JPM	REVISED -
	CHECKED - JXH/TPG	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORINGS 1
STRUCTURE NO. 016-W994**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	62
CONTRACT NO. 60135				

SHEET NO. 55 OF 58 SHEETS

ILLINOIS FED. AID PROJECT

RW-03A

SOIL BORING LOG									
PAGE 1 of 1					PAGE 1 of 1				
DATE 4/29/2010					DATE 4/29/2010				
LOGGED BY MR					LOGGED BY MR				
GSI JOB No. 09177					GSI JOB No. 09177				
ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10					ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10				
SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township					SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township				
COUNTY COOK DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic					COUNTY COOK DRILLING METHOD Hand Auger HAMMER TYPE CME Automatic				
STRUCT. NO. -	DEPT	BLOW	UCS	MOIST	STRUCT. NO. -	DEPT	BLOW	UCS	MOIST
Station -	H	S	Qu	T	Station -	H	S	Qu	T
BORING NO. RW-03A	Surface Water Elev. n/a				BORING NO. RW-03B	Surface Water Elev. n/a			
Station 498+50	Stream Bed Elev. n/a				Station 498+50	Stream Bed Elev. n/a			
Offset 13.0' Left	Groundwater Elevation: n/a				Offset 39.5' Left	Groundwater Elevation: n/a			
Ground Surface Elev. 866.1	(ft)	(/6")	(tsf)	(%)	Ground Surface Elev. 861.0	(ft)	(/6")	(tsf)	(%)
Blind Drill To -8.0'					ORGANIC CLAY- dark brown & black- soft to medium stiff (A-8) Wet				
SILTY CLAY-black-medium stiff (A-7) Wet					CLAY LOAM-dark brown-stiff (A-6) Fill				
Vane Shear Test @ -11.0' Shear Strength=938 psf					CLAY-gray-stiff to very stiff (A-6)				
Fibrous PEAT-dark brown to black (A-8)					TOPSOIL-black				
Vane Shear Test @ -16.0' Shear Strength=451 psf					SILTY CLAY-dark gray & black-medium stiff (A-7) Wet				
End Of Boring @ -16.0 Hollow Stem Augers CME Automatic Hammer					Woody PEAT-dark brown (A-8)				
					SILTY CLAY-gray-soft (A-6)				
					CLAY-gray-stiff to very stiff (A-6)				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-S Shelby Tube Sample VS-Vane Shear Test
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 The Unit Dry Weight (pcf) is noted in italics above moist (%)
 NR-No Recovery

RW-03B

SOIL BORING LOG									
PAGE 1 of 1					PAGE 1 of 1				
DATE 5/11/2010					DATE 5/11/2010				
LOGGED BY MR					LOGGED BY MR				
GSI JOB No. 09177					GSI JOB No. 09177				
ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10					ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10				
SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township					SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township				
COUNTY COOK DRILLING METHOD Hand Auger HAMMER TYPE CME Automatic					COUNTY COOK DRILLING METHOD Hollow Stem Auger / Rotary HAMMER TYPE CME Automatic				
STRUCT. NO. -	DEPT	BLOW	UCS	MOIST	STRUCT. NO. -	DEPT	BLOW	UCS	MOIST
Station -	H	S	Qu	T	Station -	H	S	Qu	T
BORING NO. RW-03B	Surface Water Elev. n/a				BORING NO. RW-04	Surface Water Elev. n/a			
Station 498+50	Stream Bed Elev. n/a				Station 498+25	Stream Bed Elev. n/a			
Offset 39.5' Left	Groundwater Elevation: n/a				Offset 11.0' Left	Groundwater Elevation: n/a			
Ground Surface Elev. 861.0	(ft)	(/6")	(tsf)	(%)	Ground Surface Elev. 863.0	(ft)	(/6")	(tsf)	(%)
ORGANIC CLAY- dark brown & black- soft to medium stiff (A-8) Wet					8.0" ASPHALT, 2.0" CRUSHED STONE, 6.0" CONCRETE				
CLAY LOAM-dark brown-stiff (A-6) Fill					CLAY-gray-stiff to very stiff (A-6)				
CLAY-gray-stiff to very stiff (A-6)					TOPSOIL-black				
SILTY CLAY-dark gray & black-medium stiff (A-7) Wet					SILTY CLAY-gray-soft (A-6)				
Woody PEAT-dark brown (A-8)					CLAY-gray-stiff to very stiff (A-6)				
SILTY CLAY-gray-soft (A-6)					CLAY-gray-stiff to very stiff (A-6)				
CLAY-gray-stiff to very stiff (A-6)					CLAY-gray-stiff to very stiff (A-6)				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-S Shelby Tube Sample VS-Vane Shear Test
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 The Unit Dry Weight (pcf) is noted in italics above moist (%)
 NR-No Recovery

RW-04

SOIL BORING LOG									
PAGE 1 of 1					PAGE 1 of 1				
DATE 4/8/2010					DATE 4/8/2010				
LOGGED BY MR					LOGGED BY MR				
GSI JOB No. 09177					GSI JOB No. 09177				
ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10					ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10				
SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township					SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township				
COUNTY COOK DRILLING METHOD Hollow Stem Auger / Rotary HAMMER TYPE CME Automatic					COUNTY COOK DRILLING METHOD Hollow Stem Auger / Rotary HAMMER TYPE CME Automatic				
STRUCT. NO. -	DEPT	BLOW	UCS	MOIST	STRUCT. NO. -	DEPT	BLOW	UCS	MOIST
Station -	H	S	Qu	T	Station -	H	S	Qu	T
BORING NO. RW-04	Surface Water Elev. n/a				BORING NO. RW-04	Surface Water Elev. n/a			
Station 498+25	Stream Bed Elev. n/a				Station 498+25	Stream Bed Elev. n/a			
Offset 11.0' Left	Groundwater Elevation: n/a				Offset 11.0' Left	Groundwater Elevation: n/a			
Ground Surface Elev. 863.0	(ft)	(/6")	(tsf)	(%)	Ground Surface Elev. 863.0	(ft)	(/6")	(tsf)	(%)
8.0" ASPHALT, 2.0" CRUSHED STONE, 6.0" CONCRETE					CLAY-gray-stiff to very stiff (A-6)				
CLAY LOAM-dark brown-stiff (A-6) Fill					CLAY-gray-stiff to very stiff (A-6)				
CLAY-gray-stiff to very stiff (A-6)					TOPSOIL-black				
SILTY CLAY-dark gray & black-medium stiff (A-7) Wet					SILTY CLAY-gray-soft (A-6)				
Woody PEAT-dark brown (A-8)					CLAY-gray-stiff to very stiff (A-6)				
SILTY CLAY-gray-soft (A-6)					CLAY-gray-stiff to very stiff (A-6)				
CLAY-gray-stiff to very stiff (A-6)					CLAY-gray-stiff to very stiff (A-6)				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-S Shelby Tube Sample VS-Vane Shear Test
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 The Unit Dry Weight (pcf) is noted in italics above moist (%)
 NR-No Recovery

RW-05

SOIL BORING LOG											
PAGE 1 of 1					DATE 4/6/2010						
LOGGED BY RJ					GSI JOB No. 09177						
ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10					SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township						
COUNTY COOK DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic					STRUCT. NO. -						
Station -					Surface Water Elev. <i>n/a</i>						
BORING NO. RW-05					Stream Bed Elev. <i>n/a</i>						
Station 500+00					Groundwater Elevation:						
Offset 12.0' Left					First Encounter <i>n/a</i>						
Ground Surface Elev. 866.0					Upon Completion <i>n/a</i>						
					After Hrs. <i>n/a</i>						
DEPTH	BLOW	UCS	MOIST	DEPTH	BLOW	UCS	MOIST	DEPTH	BLOW	UCS	MOIST
H	S	Qu	T	H	S	Qu	T	H	S	Qu	T
8.0" ASPHALT, 2.0" CRUSHED STONE, 7.0" CONCRETE 864.6											
CLAY LOAM-dark brown & gray-stiff (A-6) Fill											
CLAY-gray-stiff to very stiff (A-6)											
SILTY CLAY-dark brown & gray-stiff (A-6) Wet											
CLAY-brown & gray-very stiff to hard (A-6)											
CLAY LOAM with Fractured Rock-gray-dense (A-2)											
CLAY-gray-stiff to very stiff (A-6)											
End Of Boring @ -40.0' Hollow Stem Augers To -10.0' Rotary Drilling To Completion 10' Of 4.0" Casing Used CME Automatic Hammer											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
ST-Shelby Tube Sample VS-Vane Shear Test

The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
The Unit Dry Weight (pcf) is noted in italics above moist (%)

NR-No Recovery

RW-06

SOIL BORING LOG											
PAGE 1 of 1					DATE 4/6/2010						
LOGGED BY RJ					GSI JOB No. 09177						
ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10					SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township						
COUNTY COOK DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic					STRUCT. NO. -						
Station -					Surface Water Elev. <i>n/a</i>						
BORING NO. RW-06					Stream Bed Elev. <i>n/a</i>						
Station 500+75					Groundwater Elevation:						
Offset 11.0' Left					First Encounter <i>n/a</i>						
Ground Surface Elev. 864.0					Upon Completion <i>n/a</i>						
					After Hrs. <i>n/a</i>						
DEPTH	BLOW	UCS	MOIST	DEPTH	BLOW	UCS	MOIST	DEPTH	BLOW	UCS	MOIST
H	S	Qu	T	H	S	Qu	T	H	S	Qu	T
8.0" ASPHALT, 2.0" GRAVEL, 6.0" CONCRETE 862.6											
SILTY CLAY-dark brown, gray & black-stiff (A-6) Possible Fill 861.0											
CLAY-brown & gray-very stiff to hard (A-6)											
CLAY-gray-very stiff to hard (A-6)											
CLAY-gray-very stiff to hard (A-6)											
CLAY-gray-very stiff to hard (A-6)											
End Of Boring @ -40.0' Hollow Stem Augers To -10.0' Rotary Drilling To Completion 10' Of 4.0" Casing Used CME Automatic Hammer											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
ST-Shelby Tube Sample VS-Vane Shear Test

The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
The Unit Dry Weight (pcf) is noted in italics above moist (%)

NR-No Recovery

RW-07

SOIL BORING LOG											
PAGE 1 of 1					DATE 4/6/2010						
LOGGED BY RJ					GSI JOB No. 09177						
ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10					SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township						
COUNTY COOK DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic					STRUCT. NO. -						
Station -					Surface Water Elev. <i>n/a</i>						
BORING NO. RW-07					Stream Bed Elev. <i>n/a</i>						
Station 501+50					Groundwater Elevation:						
Offset 11.5' Left					First Encounter 862.2						
Ground Surface Elev. 865.2					Upon Completion <i>n/a</i>						
					After Hrs. <i>n/a</i>						
DEPTH	BLOW	UCS	MOIST	DEPTH	BLOW	UCS	MOIST	DEPTH	BLOW	UCS	MOIST
H	S	Qu	T	H	S	Qu	T	H	S	Qu	T
9.0" ASPHALT, 3.0" GRAVEL, 6.0" CONCRETE 863.7											
CLAY-stiff to very stiff (A-6) 844.7											
CLAY-gray-stiff to very stiff (A-6)											
CLAY-brown & gray-stiff to very stiff (A-6)											
SILTY CLAY LOAM-brown & gray-medium dense (A-4)											
CLAY-gray-stiff to very stiff (A-6)											
End Of Boring @ -40.0' Hollow Stem Augers To -10.0' Rotary Drilling To Completion 10' Of 4.0" Casing Used CME Automatic Hammer											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
ST-Shelby Tube Sample VS-Vane Shear Test

The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
The Unit Dry Weight (pcf) is noted in italics above moist (%)

NR-No Recovery



USER NAME =	DESIGNED - JPM	REVISED -
PLOT SCALE =	CHECKED - JXH	REVISED -
PLOT DATE =	DRAWN - JPM	REVISED -
	CHECKED - JXH/TPG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS 3
STRUCTURE NO. 016-W994

SHEET NO. 57 OF 58 SHEETS

F.A.P. RTE. 339	SECTION 116 Y-1-R-1	COUNTY COOK	TOTAL SHEETS 122	SHEET NO. 64
CONTRACT NO. 60I35			ILLINOIS FED. AID PROJECT	

RW-08

SOIL BORING LOG									
PAGE 1 of 1					DATE 4/6/2010				
LOGGED BY RJ					GSI JOB No. 09177				
ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDQT Job No. D-91-022-10					SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township				
COUNTY COOK DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic									
STRUCT. NO. -	SURFACE WATER ELEV. n/a		D E L U		D E L U		M O I S T		
Station -	Stream Bed Elev. n/a		P T W S		P T W S		Q u		
BORING NO. RW-08	Groundwater Elevation:		H S		H S		T		
Station 502+25	First Encounter n/a		Qu		Qu				
Offset 11.5' Left	Upon Completion n/a								
Ground Surface Elev. 866.2	(ft)	(/6")	(tsf)	(%)	(ft)	(/6")	(tsf)	(%)	
8.0" ASPHALT, 2.0" GRAVEL, 6.0" CONCRETE	864.8				5		111		
					6				
					9	1.6B	16		
					4		126		
					7				
					10	5.2B	17		
					5		111		
					13				
					15	7.3B	18		
					7		111		
					14				
					16	7.7B	18		
					8		116		
					12				
					14	6.6B	17		
					6		110		
					8				
					10	4.7B	20		
					11		850.7		
					6				
					9				
					13	2.75P	15		
					6		124		
					10				
					11	3.4B	13		
					11		826.2		
					11	2.0P	22		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 ST-S Shelby Tube Sample VS-Vane Shear Test
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 The Unit Dry Weight (pcf) is noted in italics above moist (%)
 NR-No Recovery

RW-09

SOIL BORING LOG									
PAGE 1 of 1					DATE 3/24/2010				
LOGGED BY MD					GSI JOB No. 09177				
ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDQT Job No. D-91-022-10					SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township				
COUNTY COOK DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic									
STRUCT. NO. -	SURFACE WATER ELEV. n/a		D E L U		D E L U		M O I S T		
Station -	Stream Bed Elev. n/a		P T W S		P T W S		Q u		
BORING NO. RW-09	Groundwater Elevation:		H S		H S		T		
Station 503+00	First Encounter n/a		Qu		Qu				
Offset 11.5' Left	Upon Completion n/a								
Ground Surface Elev. 866.5	(ft)	(/6")	(tsf)	(%)	(ft)	(/6")	(tsf)	(%)	
8.0" ASPHALT, 3.0" GRAVEL, 6.0" CONCRETE	865.1				5		107		
					6				
					7	2.1B	21		
					4		108		
					8				
					10	5.1B	18		
					5		104		
					10				
					13	5.0B	21		
					8		110		
					13				
					15	6.5B	18		
					8		107		
					10				
					12	3.1B	20		
					4		118		
					7				
					10	3.4B	16		
					8		107		
					10	3.4B	21		
					6		125		
					9				
					11	3.0B	10		
					11		826.5		
					11	3.0B	16		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 ST-S Shelby Tube Sample VS-Vane Shear Test
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 The Unit Dry Weight (pcf) is noted in italics above moist (%)
 NR-No Recovery

Bench Mark: IDOT Monument Number C0062-1B, Sta. 488+40, Elev. 870.47, 47.5' Rt.
Existing Structure: None

INDEX OF SHEETS

- S1 - General Plan & Elevation
- S2 - Retaining Wall Details
- S3 - Soil Borings

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60. See Special Provisions.
Reinforcement bars designated (E) shall be epoxy coated.
Reinforcement bars designated thus 7x3-#5, etc indicates 7 lines of bars with 3 lengths per line.
Concrete cap and facing shall be constructed after backfill is in place.

DESIGN SPECIFICATIONS

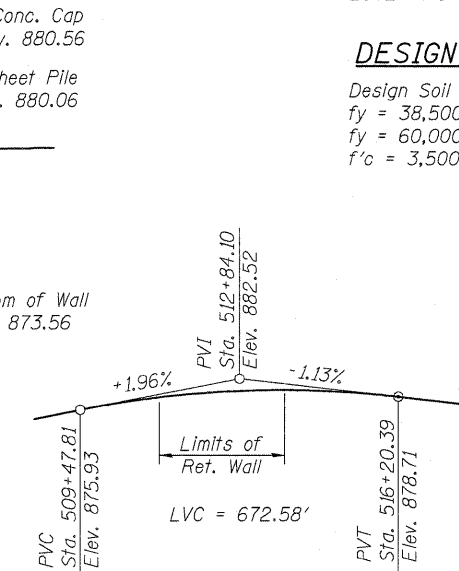
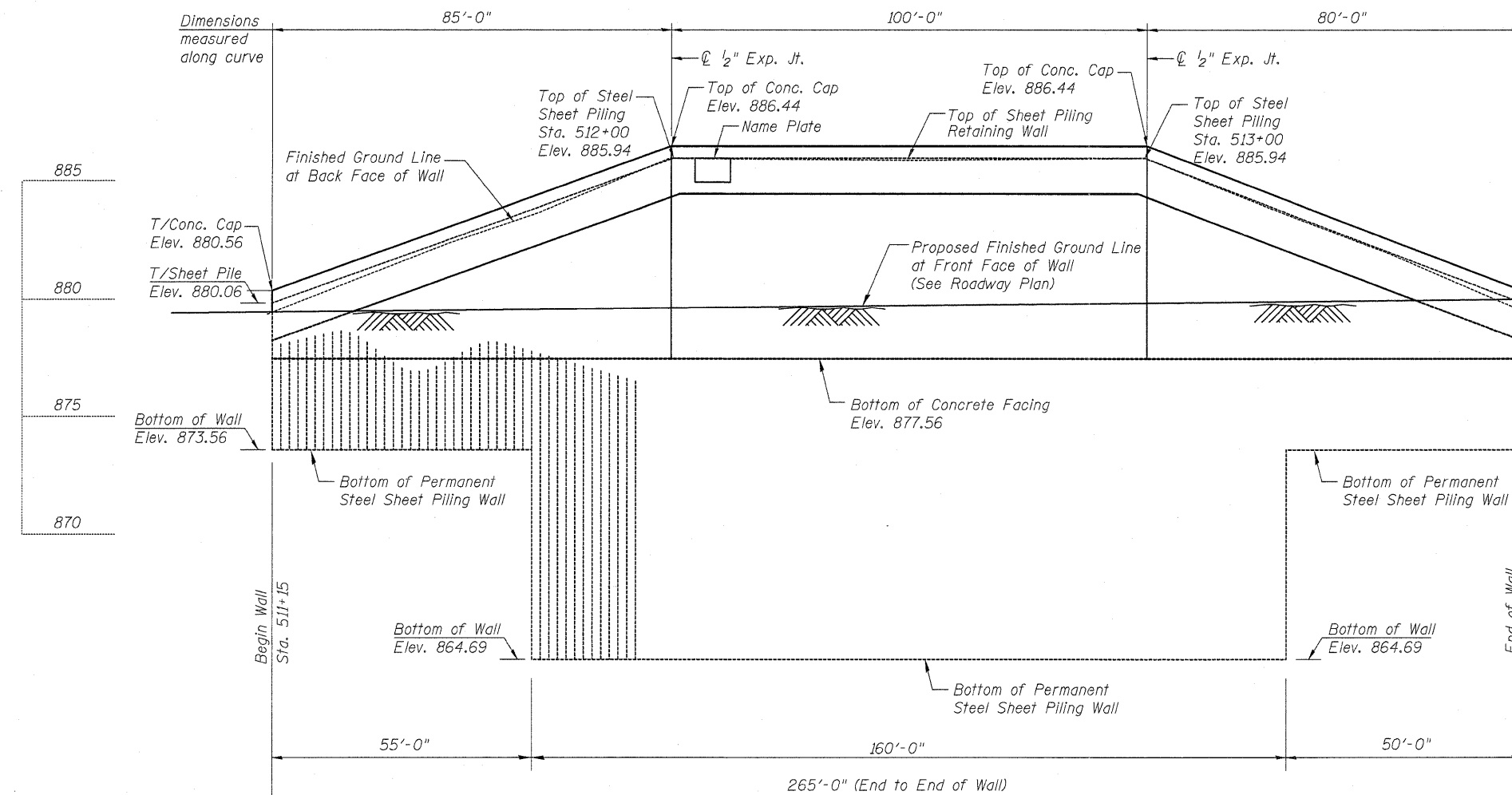
2002 AASHTO Standard Specifications, 17th Edition.

DESIGN STRESSES

Design Soil Equivalent Fluid Pressure = 40 pcf
fy = 38,500 psi (Steel Sheet Pile)
fy = 60,000 psi (Reinforcement)
f'c = 3,500 psi

TOTAL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	39	#5	30'-6"	—
h2(E)	45	#5	35'-5"	—
h3(E)	39	#5	28'-10"	—
s1(E)	267	#4	4'-9"	□
v1(E)	43	#5	11'-2"	—
v2(E)	100	#5	8'-6"	—
v3(E)	40	#5	11'-2"	—
Concrete Structures	Cu.Yd.		78.5	
Reinforcement Bars Epoxy Coated	Pound		6,780	
Permanent Steel Sheet Piling	Sq.Ft.		4,215	
Stud Shear Connectors	Each		942	
Name Plates	Each		1	



PROFILE GRADE
(Along \varnothing IL 62)

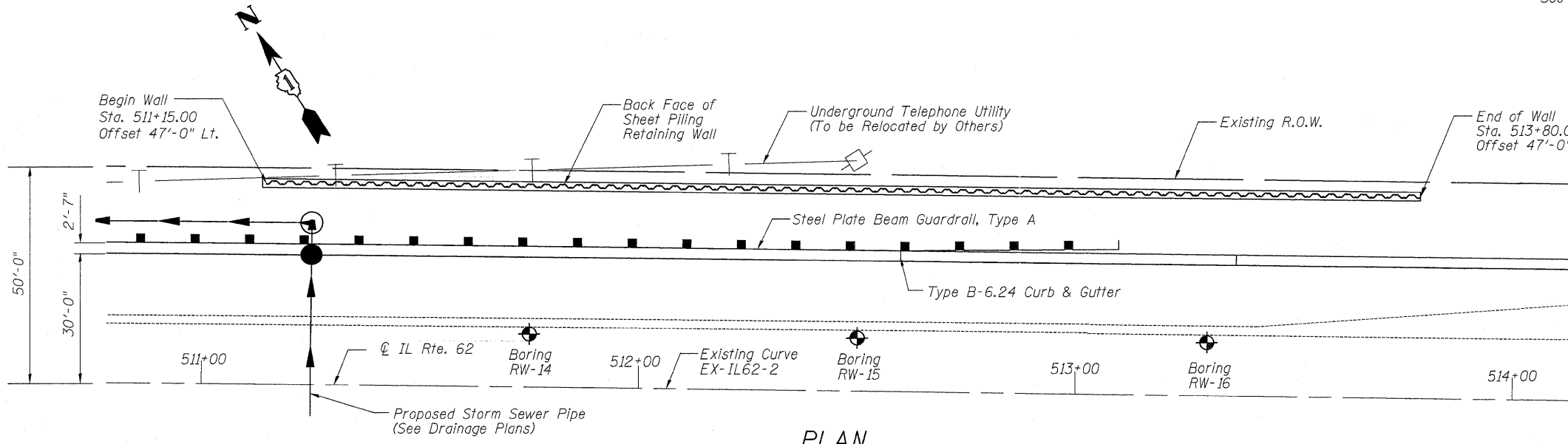
STA. 511+15 TO STA. 513+80 (LT)
BUILT 2011 BY
STATE OF ILLINOIS
F.A.P. RT. 339
SEC. 116 Y-1-R-1
STRUCTURE NO. 016-W995

NAME PLATE
See Std. 515001

ELEVATION
(Front Face View)

Note:
It shall be the Contractor's responsibility to verify the location of the existing underground utilities prior to starting construction.

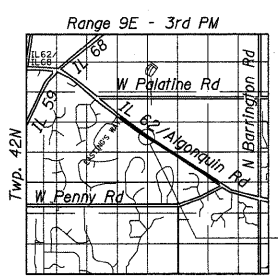
Notes:
Permanent Steel Sheet Piling Z Shape
Minimum Effective Section Modulus = 15.3 in.³/ft. wall
Work this sheet with Sheet No. S2 of S3 Sheets.



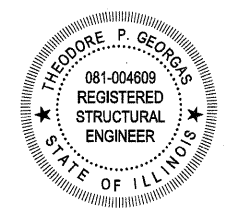
PLAN

CURVE EX-IL62-2

$\Delta = 1^\circ 32' 54''$ (RT)
D = 0° 06' 00"
R = 57,351.19'
T = 774.99'
L = 1,549.89'
E = 5.24'
P.C. Sta. = 505+12.36
P.T. Sta. = 520+62.25
P.I. Sta. = 512+87.35



LOCATION SKETCH



Theodore P. Georgas
Licensed Structural Engineer
State of Illinois 081-4609
Expires 11/30/2012
Date 6-30-2011

RETAINING WALL NO. 2
STA. 511+15 TO STA. 513+80



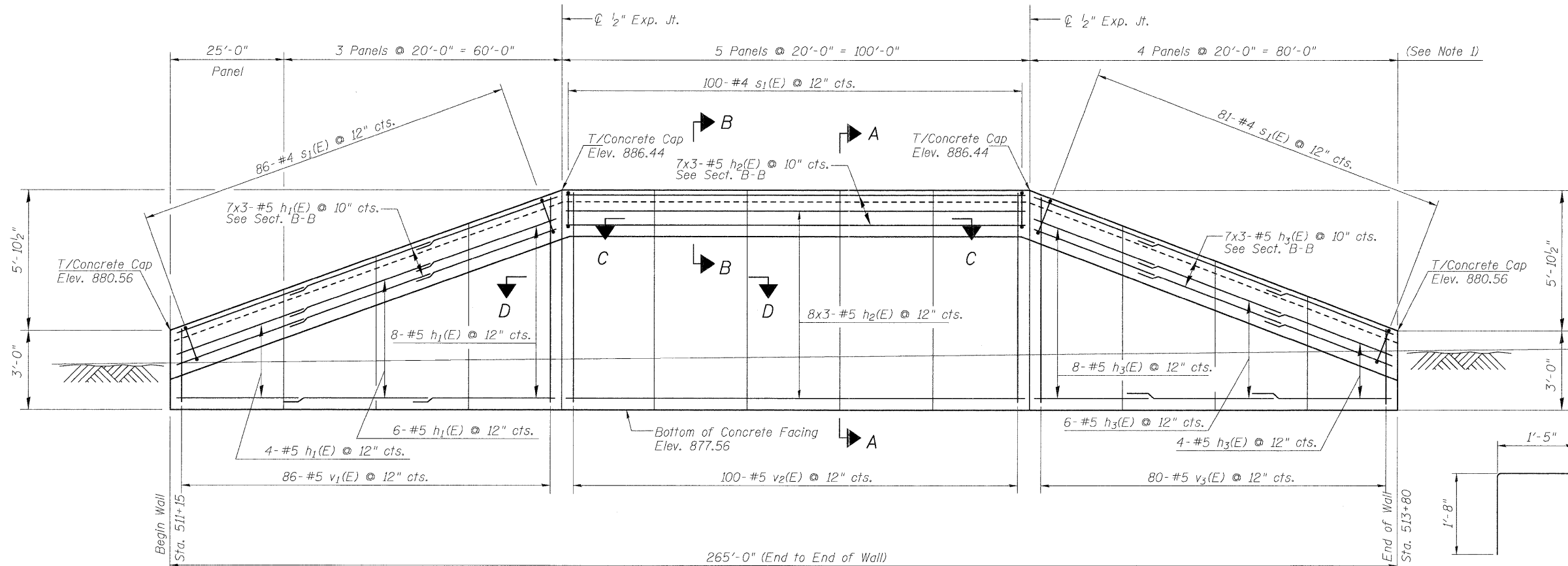
USER NAME =	DESIGNED - JPM	REVISED -
PLOT SCALE =	CHECKED - JXH	REVISED -
PLOT DATE =	DRAWN - JPM	REVISED -
	CHECKED - JXH/TPG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

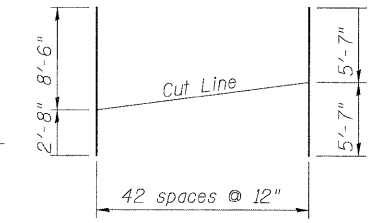
GENERAL PLAN & ELEVATION
STRUCTURE NO. 016-W995

SHEET NO. S1 OF S3 SHEETS

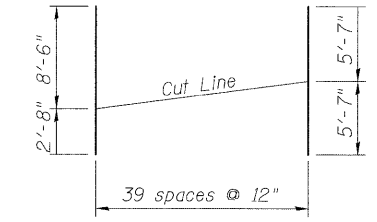
F.A.P. RTE. 339	SECTION 116 Y-1-R-1	COUNTY COOK	TOTAL SHEETS 122	SHEET NO. 66
CONTRACT NO. 60135			ILLINOIS FED. AID PROJECT	



Min. Bar Lap
#5 = 3'-3"

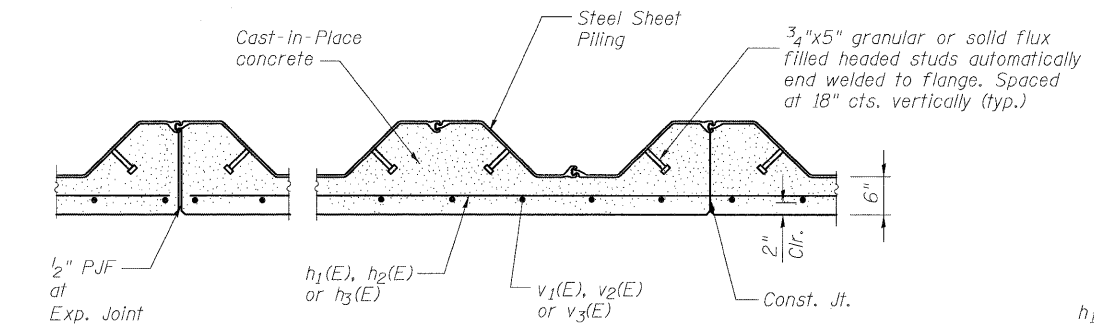


Bar v1(E) Cutting Diagram



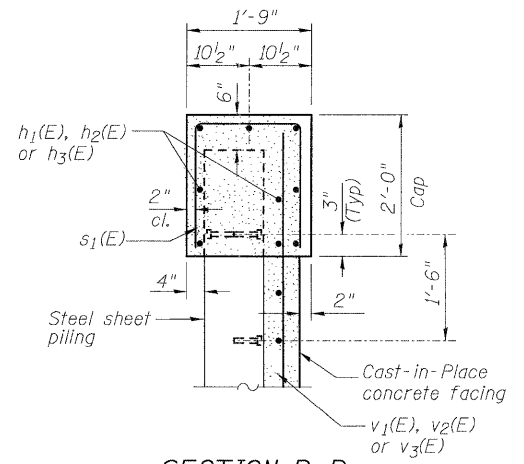
Bar v3(E) Cutting Diagram

CONCRETE FACING ELEVATION
(Front Face View)

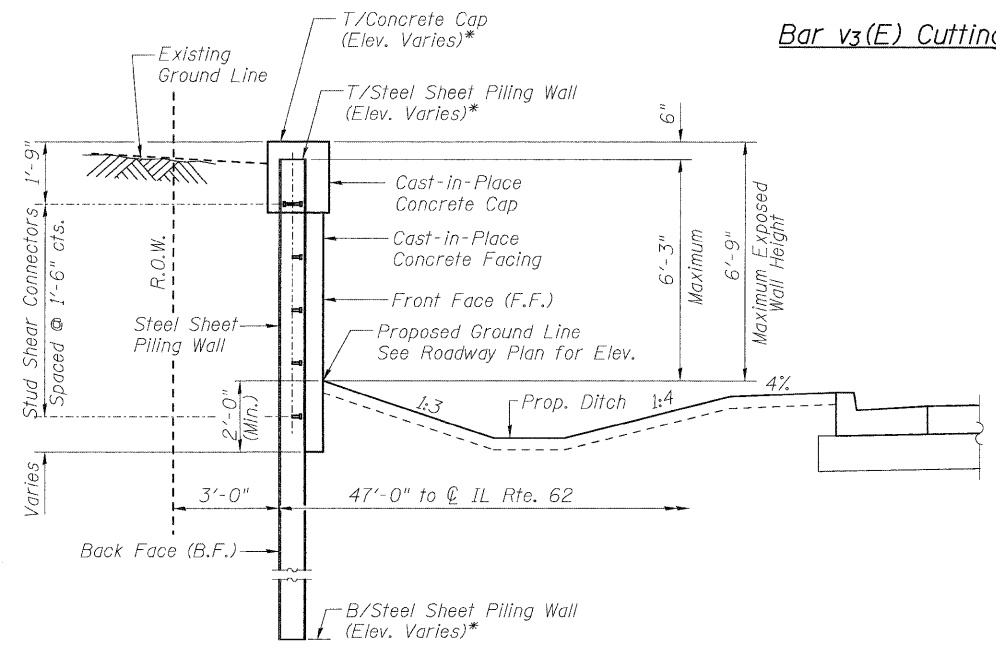


AT EXPANSION JOINT AT CONSTRUCTION JOINT

SECTION D-D



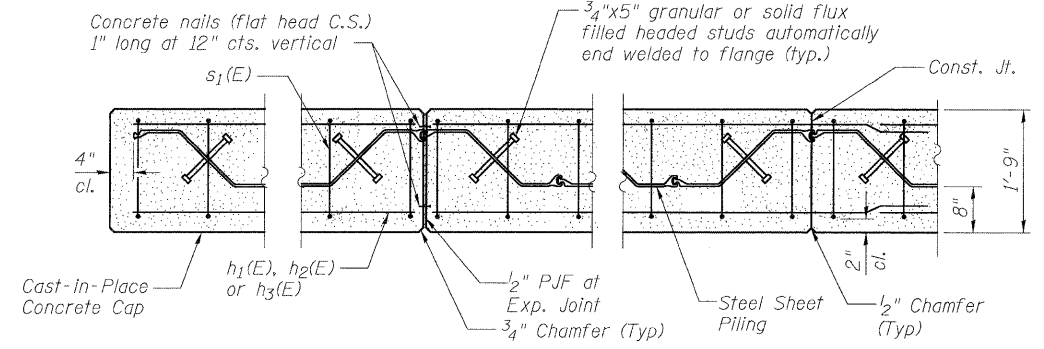
SECTION B-B



SECTION A-A

*See Sheet S1 of S3 Sheets for Elevations.

- Notes:**
- The Expansion Joints shall be located at the nearest sheet piling interlock to the indicated spacing shown.
 - Order bars v1(E) & v3(E) in full length. Cut in field and use the remainder in the other half of the wall.



AT WALL END AT EXPANSION JOINT AT CONSTRUCTION JOINT

SECTION C-C



USER NAME =	DESIGNED - JPM	REVISED -
PLLOT SCALE =	CHECKED - JXH	REVISED -
PLLOT DATE =	DRAWN - JPM	REVISED -
	CHECKED - JXH/TPG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL DETAIL
STRUCTURE NO. 016-W995

SHEET NO. S2 OF S3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	67
CONTRACT NO. 60135				
ILLINOIS FED. AID PROJECT				

Bench Mark: 1/2" Iron rod with cap, Sta. 513+52.54, 19.68' Lt., Elev. 881.31.

Existing Structure: None.

INDEX OF SHEETS

1. General Plan & Elevation
2. Wall Details-1
3. Wall Details-2
4. Wall Details-3
5. Wall Details-4
6. Soil Borings-1
7. Soil Borings-2

DESIGN STRESSES

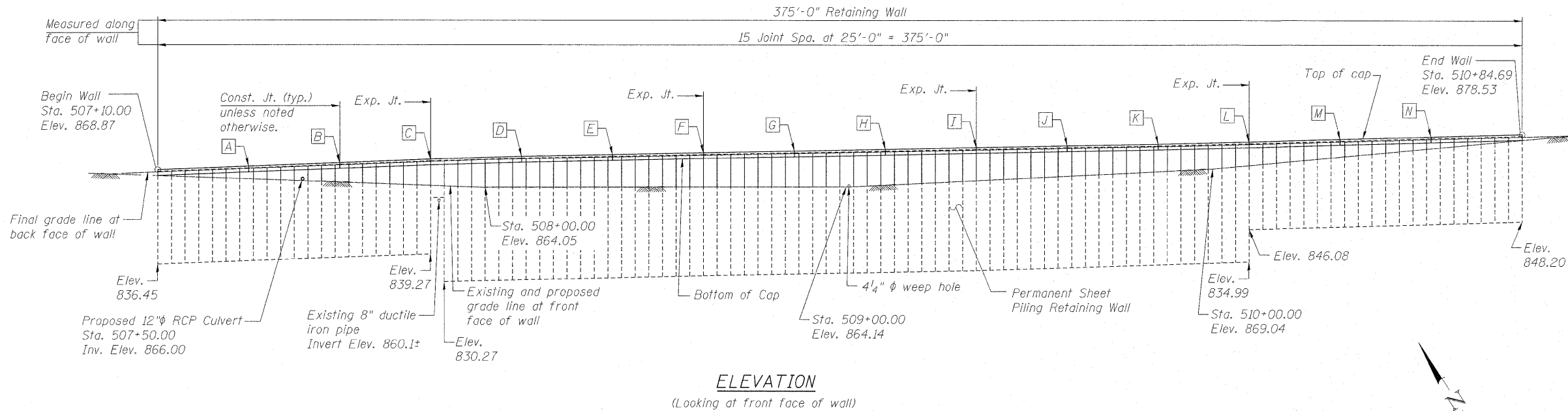
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 38,500$ psi (Sheet Piling)
 (Gr. 39, AASHTO M 202)

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications, 17th Edition

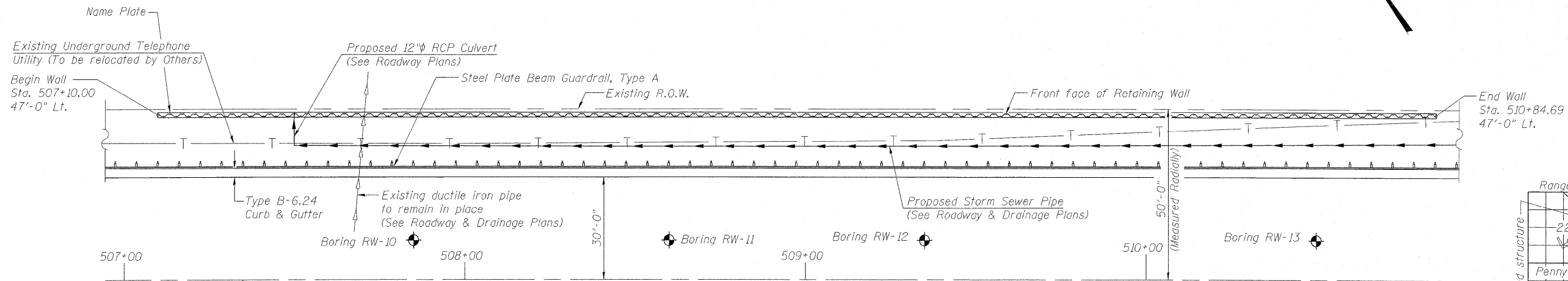
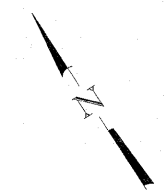
CURVE DATA

(Illinois Route 62)
 $\Delta = 1^\circ 32' 54''$ (RT)
 $D = 0^\circ 06' 00''$
 $T = 774.99'$
 $L = 1,549.89'$
 $E = 5.24'$
 $R = 57,351.19'$
 $P.C. = \text{Sta. } 505+12.36$
 $P.T. = \text{Sta. } 520+62.25$
 $P.I. = \text{Sta. } 512+87.35$

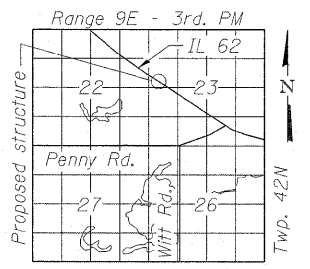


ELEVATION

(Looking at front face of wall)



PLAN

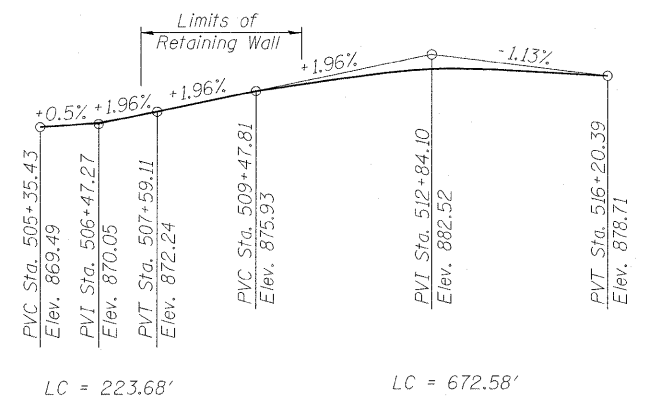


LOCATION SKETCH

Note: Offsets measured radially to \odot IL 62 from front face of sheet piling.

TOP OF CAP DATA

LOCATION	STATION	ELEVATION
A	507+34.98	869.78
B	507+59.96	870.72
C	507+84.94	871.69
D	508+09.92	872.46
E	508+34.90	872.95
F	508+59.88	873.44
G	508+84.85	873.93
H	509+09.83	874.42
I	509+34.81	874.91
J	509+59.79	875.39
K	509+84.77	875.85
L	510+09.75	876.41
M	510+34.73	877.15
N	510+59.71	877.85



PROFILE GRADE

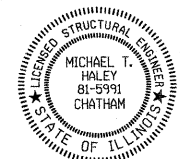
(along \odot IL 62)

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.
 Reinforcement bars designated (E) shall be epoxy coated.
 Concrete Cap shall be constructed after backfill is in place.
 It shall be the Contractor's responsibility to verify the location of the existing underground utilities prior to starting construction.
 The Contractor shall take precaution during pile driving operations so as not to damage any proposed and/or existing utilities.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Structures	Cu. Yd.	48.6
Stud Shear Connectors	Each	410
Reinforcement Bars, Epoxy Coated	Pound	4810
Permanent Steel Sheet Piling	Sq. Ft.	13840
Pipe Underdrains for Structures 4"	Foot	376
Geocomposite Wall Drain	Sq. Yd.	111
Porous Granular Embankment, Special	Cu. Yd.	148.0
Name Plates	Each	1



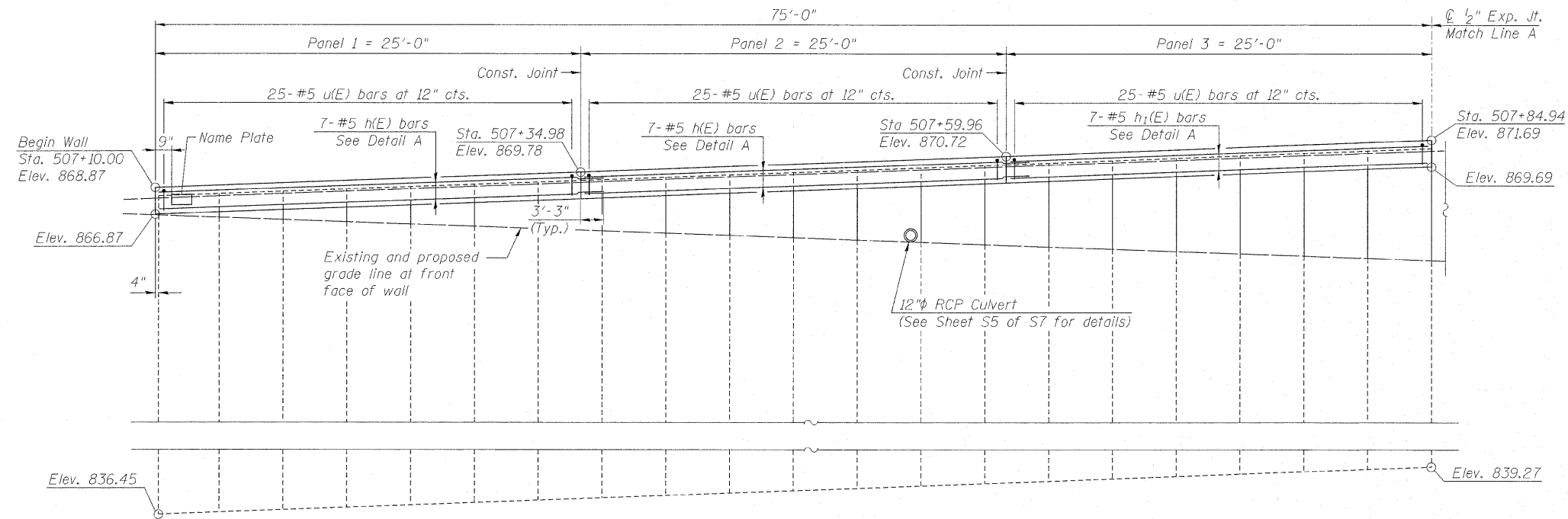
Michael J. Haley 10-21-2011
 Michael T. Haley
 Licensed Structural Engineer
 State of Illinois No. 81-5991
 Expires 11/30/2012

LT. STA. 507+10.00 TO STA. 510+84.69
 BUILT 2011 BY
 STATE OF ILLINOIS
 F.A.P. RT. 339 SEC. 116 Y-1-R-1
 STRUCTURE NO. 016-W996

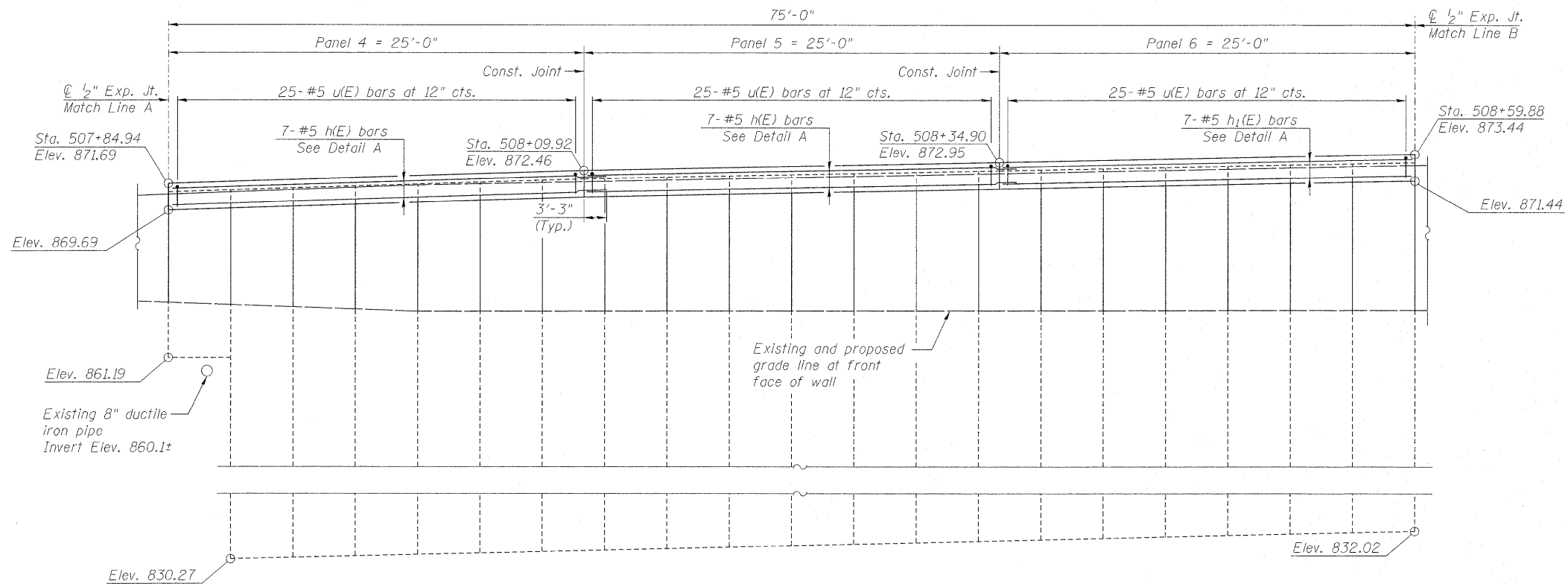
NAME PLATE

See Std. 515001

RETAINING WALL NO. 3
 STA. 507+10.00 TO STA. 510+84.69



ELEVATION
(Looking at Front Face of Wall)

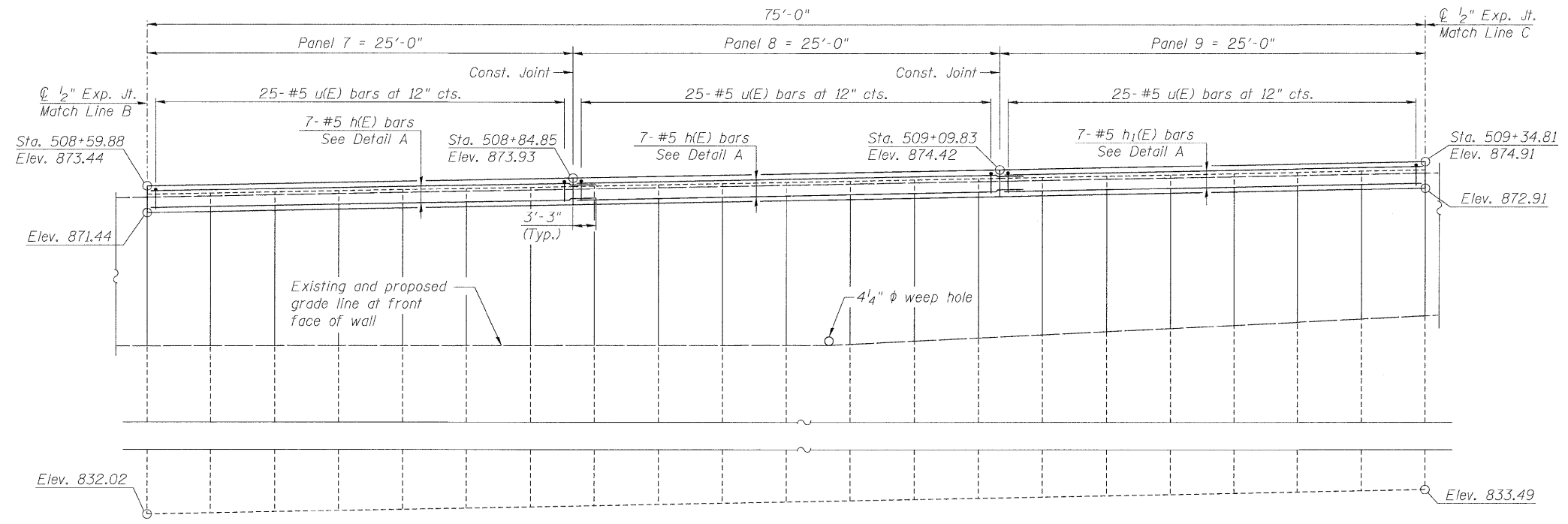


ELEVATION
(Looking at Front Face of Wall)

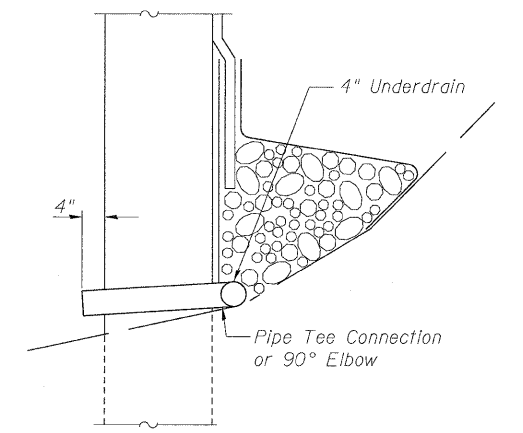
Notes:
See sheet S5 of S7 for Bill of Material, Section Thru Wall, Wall Joint Details and Detail A.
Horizontal dimensions measured along face of wall.
Expansion joints shall be located at the nearest sheet piling interlock to the indicated spacing shown.

USER NAME =	DESIGNED - ESH	REVISED - MTH 10/21/11
PLOT SCALE =	CHECKED - ADB	REVISED -
PLOT DATE =	DRAWN - RH	REVISED -
	CHECKED - ADB	REVISED -

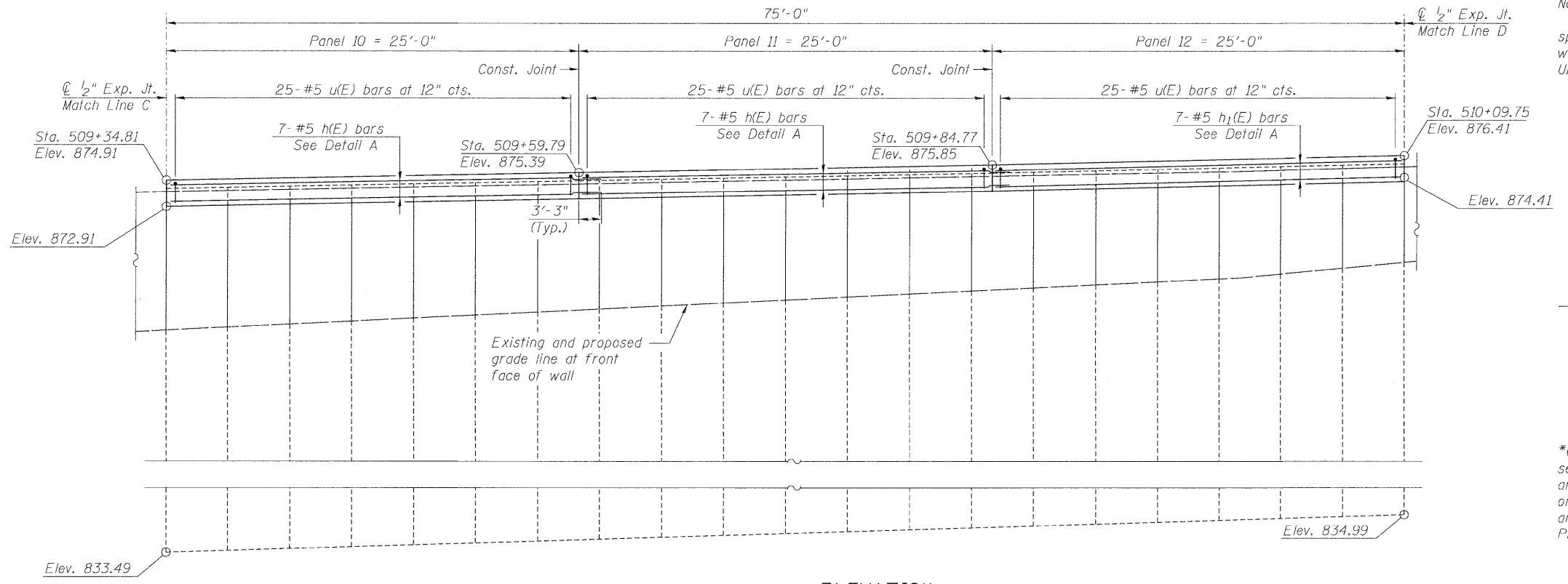
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	70
CONTRACT NO. 60135				



ELEVATION
(Looking at Front Face of Wall)

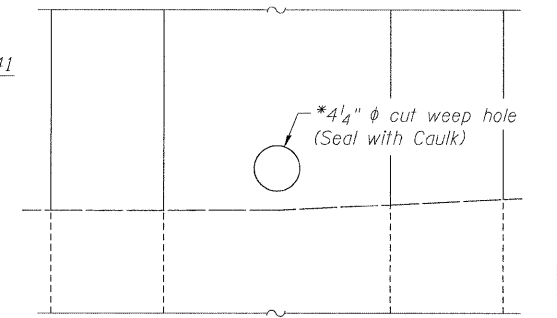


SECTION THRU WEEP HOLE



ELEVATION
(Looking at Front Face of Wall)

Note:
Contractor shall furnish and install a concrete splash block approved by the Engineer at the weep hole location. Cost is included with Pipe Underdrains for Structures 4".

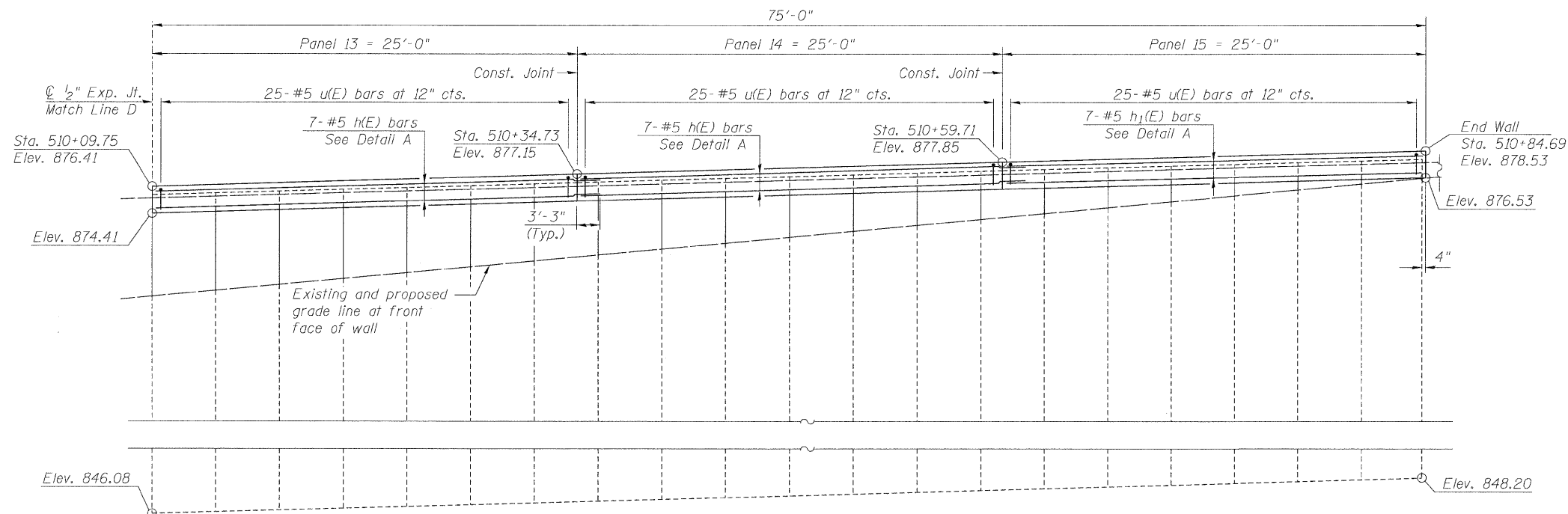


WEEP HOLE ELEVATION

*Caulk for drain shall be silicone caulking adhesive sealer, marketed for outdoor and underwater use, and listed by manufacturer as appropriate for use on PVC and steel surfaces. Surfaces shall be clean and dry prior to application. Cost is included with Pipe Underdrains for Structures 4".

Notes:
See sheet S5 of S7 for Bill of Material, Section Thru Wall, Wall Joint Details and Detail A.
Horizontal dimensions measured along face of wall.
Expansion joints shall be located at the nearest sheet piling interlock to the indicated spacing shown.

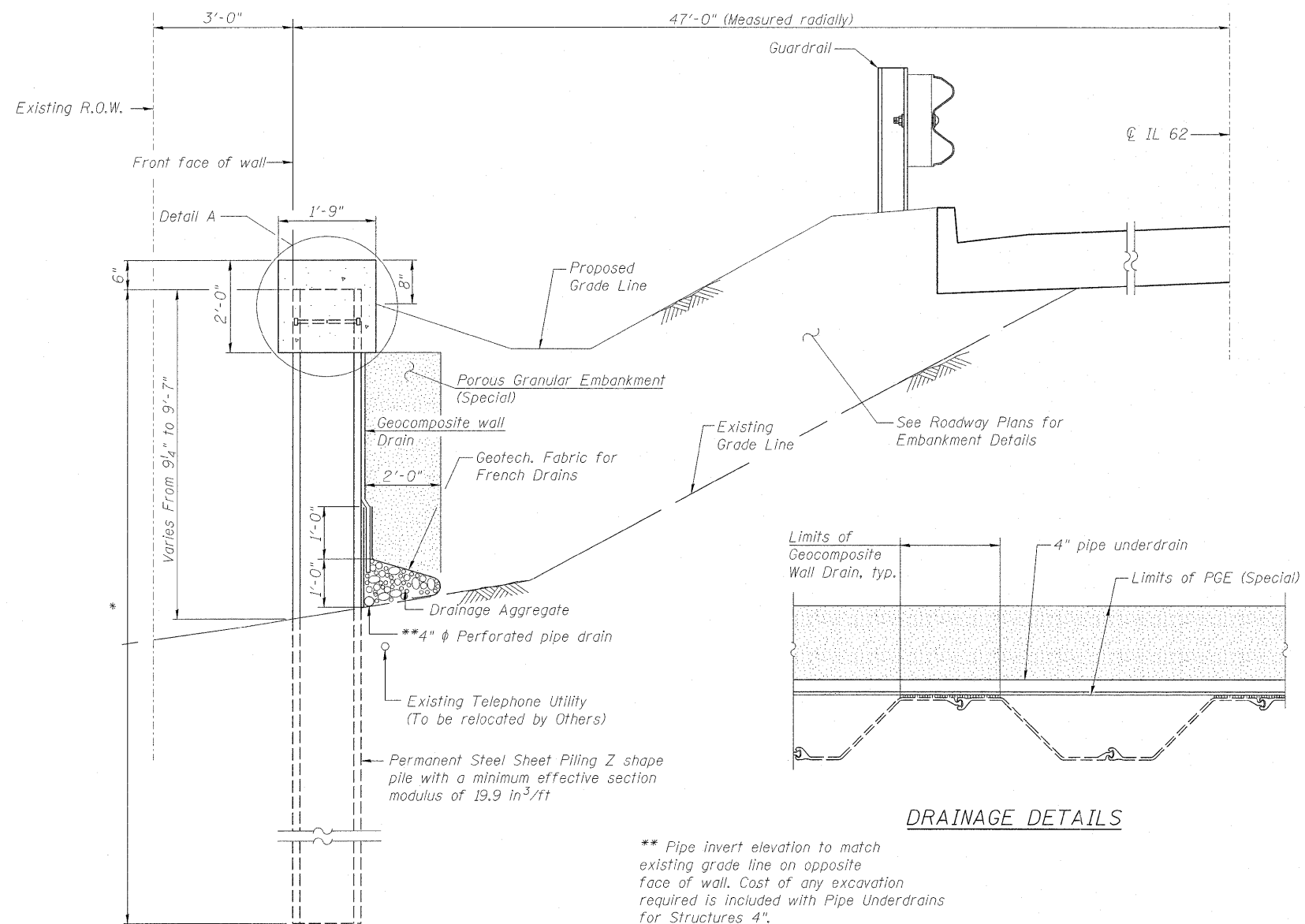
LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois	USER NAME =	DESIGNED - ESH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WALL DETAILS-2 STRUCTURE NO. 016-W996	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - ADB	REVISED -			339	116 Y-1-R-1	COOK	122	71
	PLOT DATE =	DRAWN - RH	REVISED -			CONTRACT NO. 60135				
		CHECKED - ADB	REVISED -			[ILLINOIS] FED. AID PROJECT				



ELEVATION
(Looking at Front Face of Wall)

Notes:
See sheet S5 of S7 for Bill of Material, Section Thru Wall, Wall Joint Details and Detail A.
Horizontal dimensions measured along face of wall.
Expansion joints shall be located at the nearest sheet piling interlock to the indicated spacing shown.

LIN ENGINEERING, LTD. Consulting Engineers Channah, Illinois	USER NAME =	DESIGNED - ESH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WALL DETAILS-3 STRUCTURE NO. 016-W996	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE =	CHECKED - ADB	REVISED -			339	116 Y-1-R-1	COOK	122	72	
	PLOT DATE =	DRAWN - RH	REVISED -			SHEET NO. S4 OF S7 SHEETS		CONTRACT NO. 60135		ILLINOIS FED. AID PROJECT	
		CHECKED - ADB	REVISED -								



DRAINAGE DETAILS

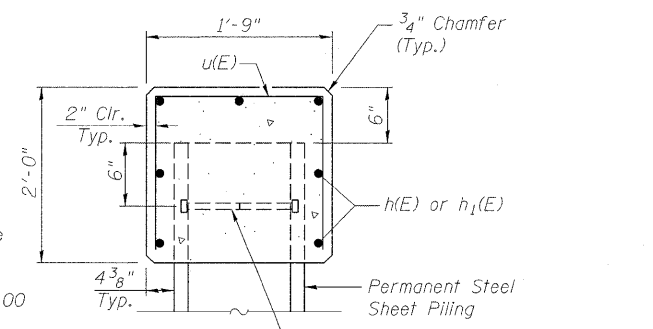
** Pipe invert elevation to match existing grade line on opposite face of wall. Cost of any excavation required is included with Pipe Underdrains for Structures 4".

SECTION THRU WALL

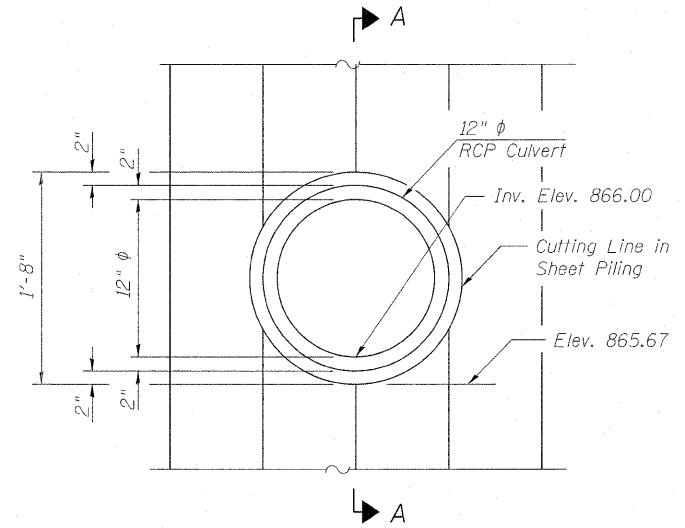
***MINIMUM SHEET PILE HEIGHT**

Panel	Height
Panels 1 to 3	31'-11"
Panels 4 to 12	40'-11"
Panels 13 to 15	29'-10"

Notes:
 Cost of Geotechnical Fabric and Drainage Aggregate are included in the cost of Pipe Underdrain for Structures 4".
 Perforated pipe drain shall outlet near station 509+00 thru 4 1/4" cut hole in wall.
 Cost of cutting 20" φ opening in sheet pile wall is included in the cost of Permanent Steel Sheet Piling.

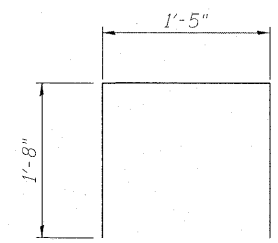


DETAIL A

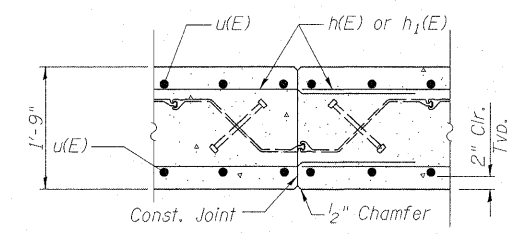


SECTION THRU PERMANENT SHEET PILING AT PIPE CULVERT

(Contractor shall seal the void around the RCP with approval by the Engineer. Cost included with Permanent Steel Sheet Piling.)



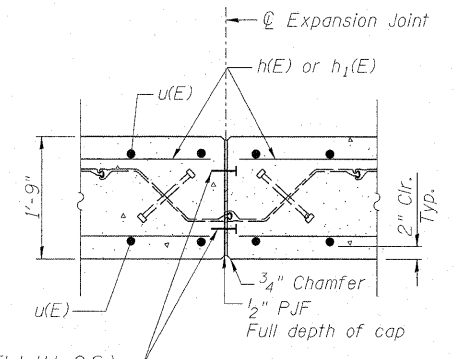
BAR u(E)



CONSTRUCTION JOINT DETAIL

BILL OF MATERIAL

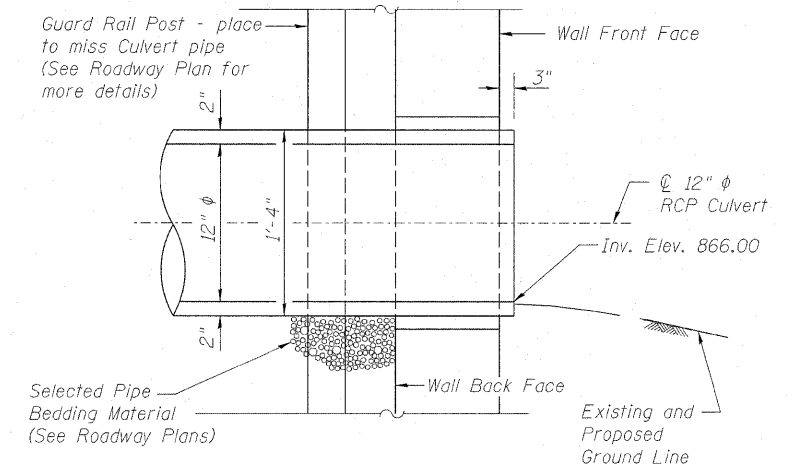
Bar	No.	Size	Length	Shape
h(E)	70	#5	28'-1"	
h1(E)	35	#5	24'-8"	
u(E)	375	#5	4'-9"	
Concrete Structures			Cu. Yd.	48.6
Reinforcement Bars, Epoxy Coated			Pound	4810




EXPANSION JOINT DETAIL

Expansion joints shall be located at the nearest sheet piling interlock to the indicated spacing shown.


Notes:
 The details for the concrete cap and reinforcement, and the required number of stud shear connectors are based on section SZ-24 sheet piling. If the Contractor chooses to use any other section, then the Contractor shall submit revised concrete cap and reinforcement configuration for approval by engineer. Such changes shall not be cause for additional compensation.



SECTION A-A

 Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Arnhart Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838		SOIL BORING LOG		PAGE <u>1</u> of <u>1</u> DATE <u>3/24/2010</u> LOGGED BY <u>MD</u> GSI JOB No. <u>09177</u>	
ROUTE <u>FAP 339 (Il. Route 62)</u> DESCRIPTION <u>Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10</u>					
SECTION <u>116 Y-1-R-1</u> LOCATION <u>S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township</u>					
COUNTY <u>COOK</u> DRILLING METHOD <u>Hollow Stem Auger/ Rotary</u> HAMMER TYPE <u>CME Automatic</u>					
STRUCT. NO. <u>016-W996</u> Station <u>507+25 to 510+35</u>		Surface Water Elev. <u>n/a</u> Stream Bed Elev. <u>n/a</u>			
BORING NO. RW-10 Station <u>507+85</u> Offset <u>11.5' Left</u> Ground Surface Elev. <u>873.5</u>		Groundwater Elevation: First Encounter <u>n/a</u> <input type="checkbox"/> Upon Completion <u>n/a</u> <input type="checkbox"/> After <u> </u> Hrs. <input type="checkbox"/>		D E P T H (ft) B L O W S (/6") U C S (tsf) M O I S T (%)	
7.0" ASPHALT, 2.0" GRAVEL, 7.0" CONCRETE <u>872.1</u>				4 106 6 9 2.2B 22	
CLAY LOAM—dark brown, gray & black— medium stiff to stiff (A-6) Fill, Wet <u>865.0</u>		CLAY—gray— stiff to very stiff (A-6)		2 103 3 -5 3 1.25P 27 3 89 4 5 0.9B 27 4 102 5 5 -30 6 2.4B 23	
CLAYEY TOPSOIL—black <u>863.5 -10</u>				4 92 5 6 1.9B 27	
CLAY—dark brown & gray— stiff to very stiff (A-6) <u>857.5</u>				3 88 3 4 1.3B 25 3 104 4 -15 6 2.3B 22 4 116 5 10 2.6B 17	
CLAY—gray— stiff to very stiff (A-6) <u>833.5 -40</u>		Some Fractured Rock from -38.5' to -40.0'. End Of Boring @ -40.0' Hollow Stem Augers To -10.0' Rotary Drilling To Completion 10' Of 4.0" Casing Used CME Automatic Hammer		4 102 6 -20 10 3.5B 21 8 10 9	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
 NR-No Recovery

 Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Arnhart Court, Suite 204 Naperville, Illinois 60565 (630) 355-2838		SOIL BORING LOG		PAGE <u>1</u> of <u>1</u> DATE <u>3/23/2010</u> LOGGED BY <u>MD</u> GSI JOB No. <u>09177</u>	
ROUTE <u>FAP 339 (Il. Route 62)</u> DESCRIPTION <u>Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10</u>					
SECTION <u>116 Y-1-R-1</u> LOCATION <u>S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township</u>					
COUNTY <u>COOK</u> DRILLING METHOD <u>Hollow Stem Auger/ Rotary</u> HAMMER TYPE <u>CME Automatic</u>					
STRUCT. NO. <u>016-W996</u> Station <u>507+25 to 510+35</u>		Surface Water Elev. <u>n/a</u> Stream Bed Elev. <u>n/a</u>			
BORING NO. RW-11 Station <u>508+60</u> Offset <u>11.5' Left</u> Ground Surface Elev. <u>875.0</u>		Groundwater Elevation: First Encounter <u>n/a</u> <input type="checkbox"/> Upon Completion <u>n/a</u> <input type="checkbox"/> After <u> </u> Hrs. <input type="checkbox"/>		D E P T H (ft) B L O W S (/6") U C S (tsf) M O I S T (%)	
7.0" ASPHALT, 3.0" GRAVEL, 7.0" CONCRETE <u>873.6</u>				4 110 5 9 2.4B 20	
CLAY LOAM—brown & gray spotted black—stiff (A-6) Fill, Wet <u>866.5</u>		CLAY—gray— stiff to very stiff (A-6)		2 88 3 -5 3 1.25B 22 3 102 4 5 1.5P 27 3 104 6 -10 7 3.25P 26 3 110 5 7 2.7B 18 2 103 3 -15 3 1.0P 22 8 111 12 16 3.2B 18 4 105 8 -20 12 3.25B 17	
TOPSOIL—black <u>864.0</u>				4 23 6 -30 6 1.9B 23	
SILTY CLAY—brown & gray— stiff to very stiff (A-6) <u>859.0</u>				3 103 4 -35 5 1.75B 22	
CLAY—gray— stiff to very stiff (A-6) <u>835.0 -40</u>		End Of Boring @ -40.0' Hollow Stem Augers To -10.0' Rotary Drilling To Completion 10' Of 4.0" Casing Used CME Automatic Hammer		6 111 12 16 3.2B 18 4 105 5 6 2.5B 21	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
 NR-No Recovery

PAGE 1 of 1
DATE 3/23/2010
LOGGED BY MD
GSI JOB No. 09177

SOIL BORING LOG

Geo Services Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10
SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township
COUNTY COOK DRILLING METHOD Hollow Stem Auger/ Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 016-W996
Station 507+25 to 510+35
BORING NO. RW-12
Station 509+35
Offset 11.5' Left
Ground Surface Elev. 876.2

DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOISTURE (%)	Soil Description			
				DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOISTURE (%)
				8.0" ASPHALT, 3.0" GRAVEL, 5.0" CONCRETE			
0				CLAY-brown & gray-very stiff (A-6)	855.2		
5						5	110
8						10	3.0B 18
10							
3				CLAY LOAM-brown & gray spotted black-stiff to very stiff (A-6) Fill		4	100
4						7	
-5		1.3B	22			-25	10 2.0P 23
3				CLAY-gray-stiff to very stiff (A-6)		4	106
3						7	1.85B 23
5		1.4B	26			10	12.7% 23
4						3	
6						4	
-10		3.0P	21			-30	5 1.25P 27
3							
3				TOPSOIL-black			
4		1.25B	32				
2						4	104
3						5	
-15		2.7B	20			-35	7 2.3B 22
4				CLAY-brown & gray-very stiff (A-6)		4	110
7						10	2.5B 19
8						4	104
10						5	
-20		3.4B	18			-40	8 1.9B 23

End Of Boring @ -40.0
Hollow Stem Augers To -10.0'
Rotary Drilling To Completion
10' Of 4.0" Casing Used
CME Automatic Hammer

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B)-Bulge, (S)-Shear, (P)-Penetrometer, (ST)-Shelby Tube Sample, (VS)-Vane Shear Test. The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206). The Unit Dry Weight (pcf) is noted in italics above moist (%). NR-No Recovery

PAGE 1 of 1
DATE 3/22/2010
LOGGED BY MD
GSI JOB No. 09177

SOIL BORING LOG

Geo Services Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

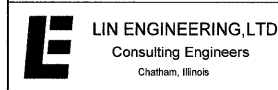
ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10
SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township
COUNTY COOK DRILLING METHOD Hollow Stem Auger/ Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 016-W996
Station 507+25 to 510+35
BORING NO. RW-13
Station 510+50
Offset 11.5' Left
Ground Surface Elev. 878.3

DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOISTURE (%)	Soil Description			
				DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOISTURE (%)
				8.0" ASPHALT, 3.0" GRAVEL, 5.0" CONCRETE			
0				CLAY-brown & gray-very stiff to hard (A-6)	857.3		
3						3	113
6						7	2.0B 18
7							
4				CLAY LOAM-dark brown & gray-very stiff (A-6) Fill		4	110
5						5	
-5		2.1B	18			-25	7 2.5B 20
4						6	118
6						6	
7		2.0P	27			7	2.2B 16
4				CLAY-gray-stiff to hard (A-6)		4	99
5						5	
-10		2.9B	25			-30	7 1.5P 12
5							
9				CLAY-brown & gray-very stiff to hard (A-6)		9	
9						9	
5						6	109
9						9	
-15		4.3B	20			-35	9 1.5P 11
6						6	105
10						10	
13		4.4B	22			13	4.4B 22
5				Some Fractured Rock from -38.5' to -40.0'		5	113
10						10	
-20		4.3B	15			-40	12 1.5P 13

End Of Boring @ -40.0
Hollow Stem Augers To -10.0'
Rotary Drilling To Completion
10' Of 4.0" Casing Used
CME Automatic Hammer

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B)-Bulge, (S)-Shear, (P)-Penetrometer, (ST)-Shelby Tube Sample, (VS)-Vane Shear Test. The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206). The Unit Dry Weight (pcf) is noted in italics above moist (%). NR-No Recovery



USER NAME =	DESIGNED - ESH	REVISED -
PLOT SCALE =	CHECKED - ADB	REVISED -
PLOT DATE =	DRAWN - RH	REVISED -
	CHECKED - ADB	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORINGS-2
STRUCTURE NO. 016-W996**
SHEET NO. 57 OF 57 SHEETS

F.A.P. RTE. 339	SECTION 116 Y-1-R-1	COUNTY COOK	TOTAL SHEETS 122	SHEET NO. 75
CONTRACT NO. 60135				ILLINOIS FED. AID PROJECT

Bench Mark: 1/2" Iron rod with cap, Sta. 513+52.54, 19.68' Lt., Elev. 881.31.

Existing Structure: None.

DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications,
17th Edition

DESIGN STRESSES
FIELD UNITS

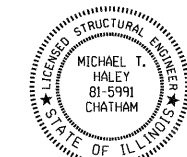
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 38,500$ psi (Sheet Piling)
(Gr. 39 AASHTO M 202)

INDEX OF SHEETS

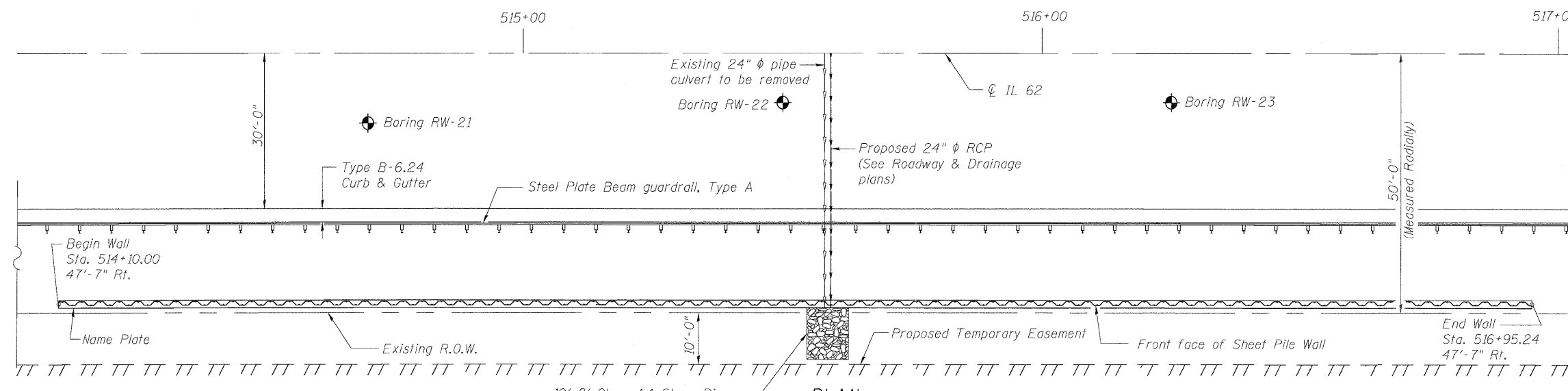
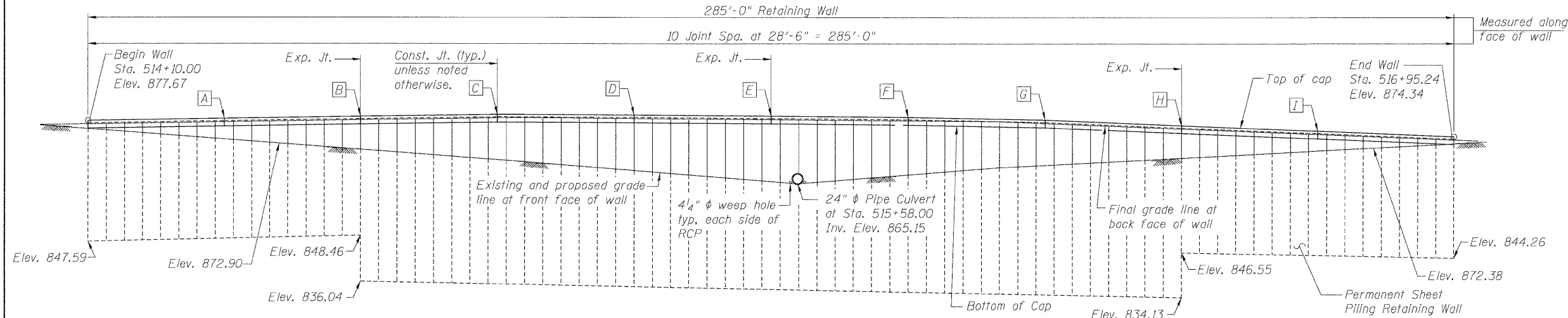
1. General Plan & Elevation
2. Wall Details-1
3. Wall Details-2
4. Wall Details-3
5. Soil Borings-1
6. Soil Borings-2

RT. STA. 514+10.00 TO STA. 516+95.24
BUILT 2011 BY
STATE OF ILLINOIS
F.A.P. RT. 339 SEC. 116 Y-1-R-1
STRUCTURE NO. 016-W997

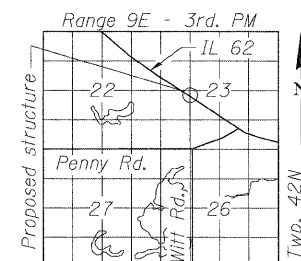
NAME PLATE
See Std. 515001



Michael T. Haley 6-21-2011
Date
Michael T. Haley
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2012



Note:
Offsets measured radially to CL IL 62
from back face of sheet piling.



APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Michael J. Haley (RD)
ENGINEER OF BRIDGES AND STRUCTURES

RETAINING WALL NO. 4
STA. 514+10.00 TO STA. 516+95.24

TOP OF CAP DATA

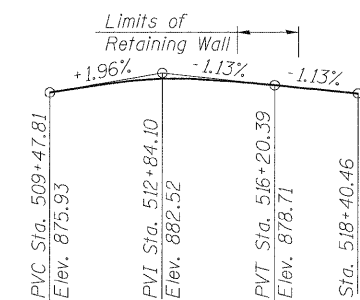
LOCATION	STATION	ELEVATION
A	514+38.52	878.12
B	514+67.05	878.54
C	514+95.57	878.91
D	515+24.09	878.82
E	515+52.62	878.60
F	515+81.14	878.35
G	516+09.67	877.79
H	516+38.19	876.63
I	516+66.71	875.49

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.
Reinforcement bars designated (E) shall be epoxy coated.
Concrete Cap shall be constructed after backfill is in place.
It shall be the Contractor's responsibility to verify the location of the existing underground utilities prior to starting construction.
The Contractor shall take precaution during pile driving operations so as not to damage any proposed and/or existing utilities.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Structures	Cu. Yd.	36.9
Stud Shear Connectors	Each	380
Reinforcement Bars, Epoxy Coated	Pound	3650
Permanent Steel Sheet Piling	Sq. Ft.	10560
Pipe Underdrains for Structures 4"	Foot	286
Geocomposite Wall Drain	Sq. Yd.	94
Porous Granular Embankment, Special	Cu. Yd.	125.7
Name Plates	Each	1



PROFILE GRADE
(along CL IL 62)

CURVE DATA

(Illinois Route 62)
 $\Delta = 1^\circ 32' 54''$ (RT)
 $D = 0^\circ 06' 00''$
 $T = 774.99'$
 $L = 1,549.89'$
 $E = 5.24'$
 $R = 57,351.19'$
 $P.C. = \text{Sta. } 505+12.36$
 $P.T. = \text{Sta. } 520+62.25$
 $P.I. = \text{Sta. } 512+87.35$

LIN ENGINEERING, LTD.
Consulting Engineers
Chatham, Illinois

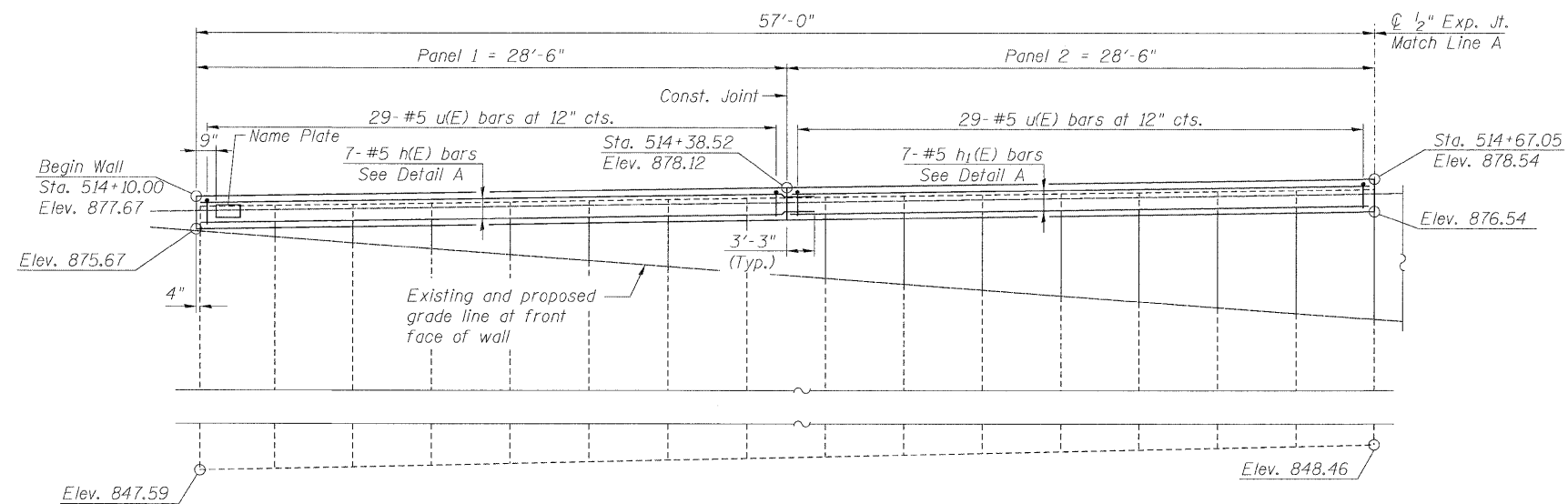
USER NAME =	DESIGNED - ESH	REVISED -
FILE NAME =	CHECKED - ADB	REVISED -
PLOT SCALE =	DRAWN - ESH	REVISED -
PLOT DATE =	CHECKED - ADB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

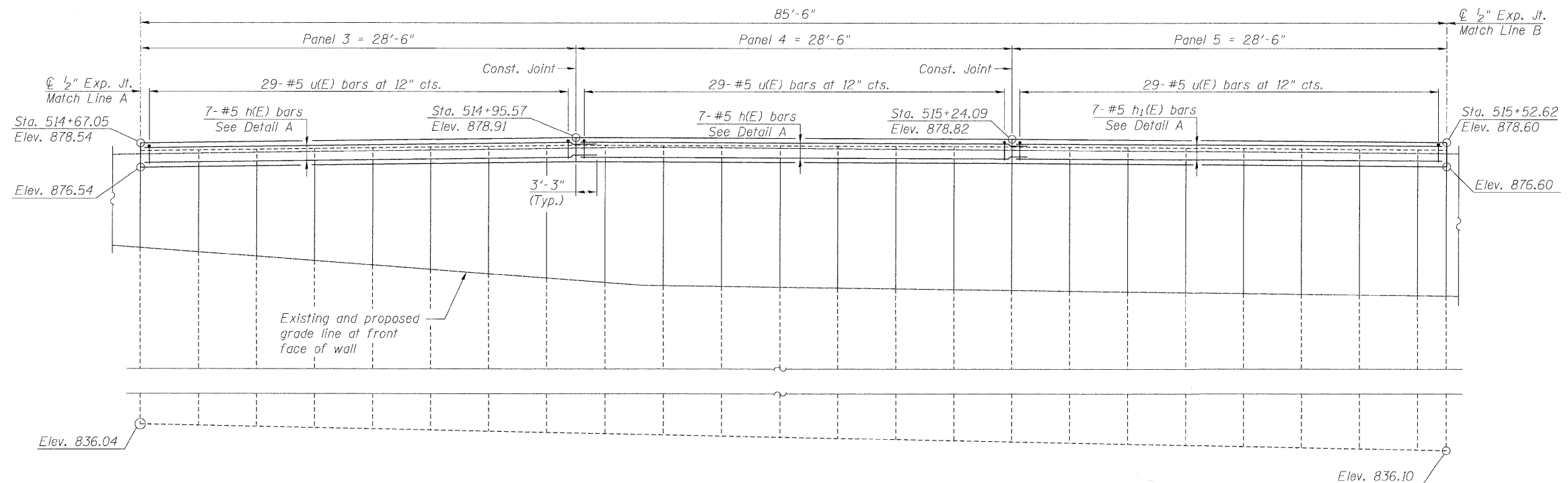
GENERAL PLAN & ELEVATION
STRUCTURE NO. 016-W997

SHEET NO. S1 OF S6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	76
			CONTRACT NO.	60135
ILLINOIS FED. AID PROJECT				

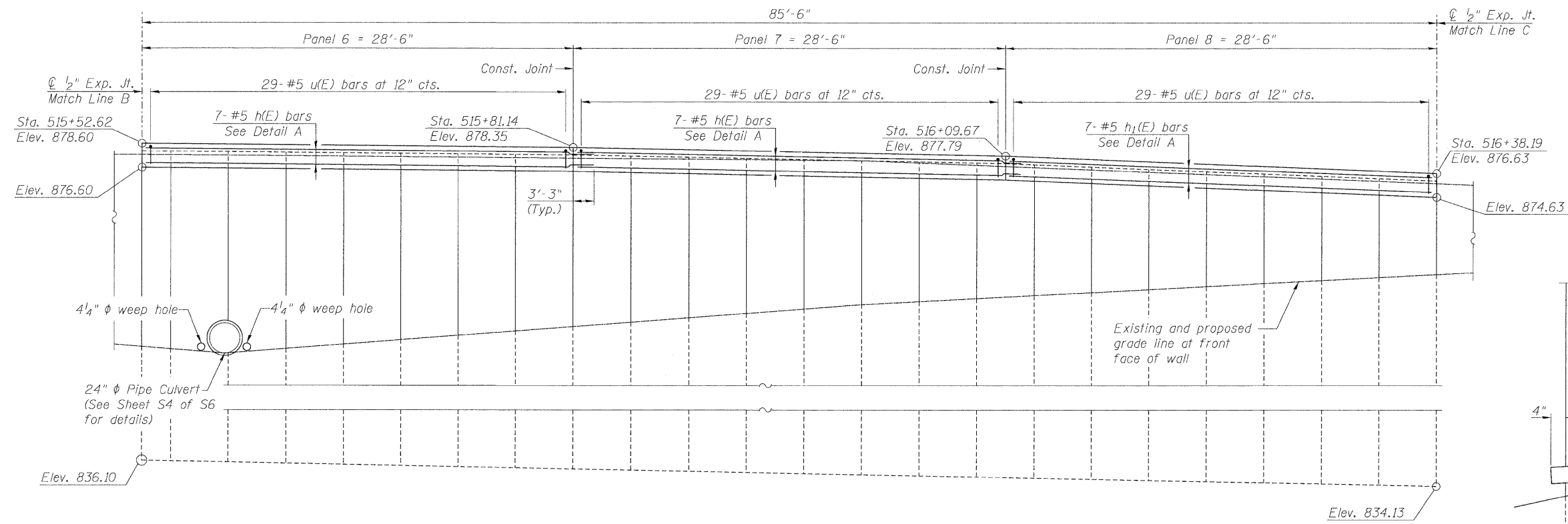


ELEVATION
(Looking at Front Face of Wall)

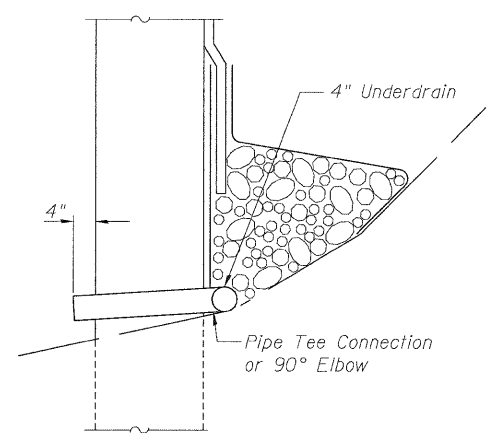


ELEVATION
(Looking at Front Face of Wall)

Notes:
See sheet S4 of S6 for Bill of Material, Section Thru Wall, Wall Joint Details and Detail A.
Horizontal dimensions measured along face of wall.
Expansion joints shall be located at the nearest sheet piling interlock to the indicated spacing shown.

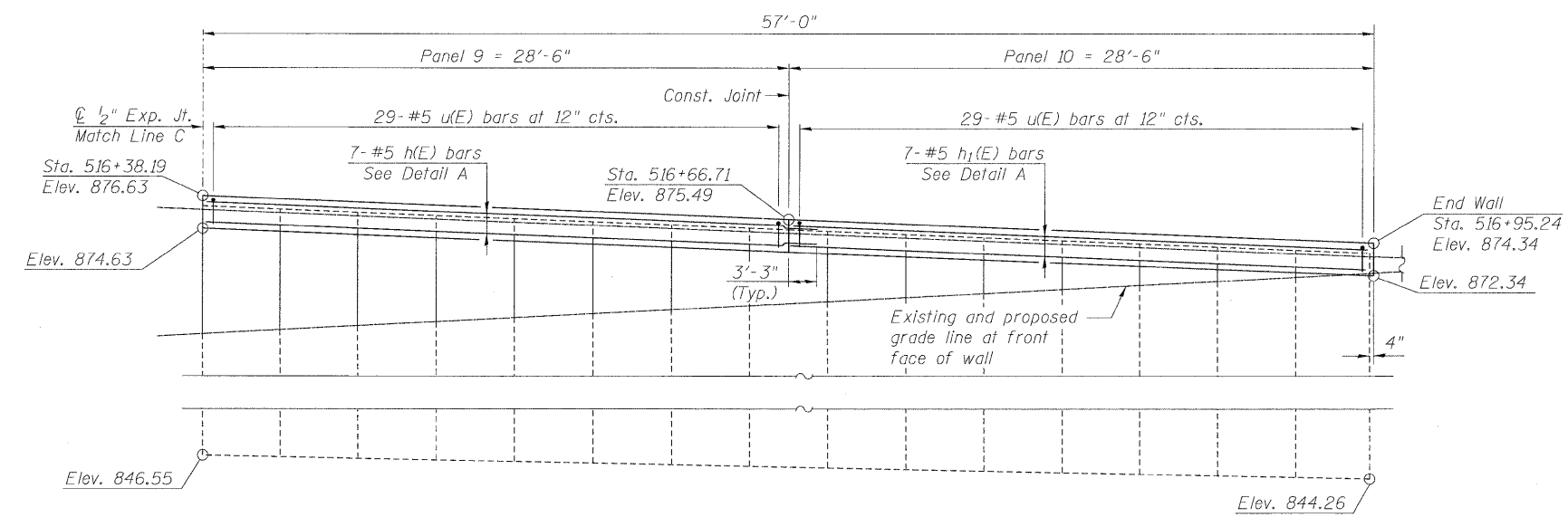


ELEVATION
(Looking at Front Face of Wall)

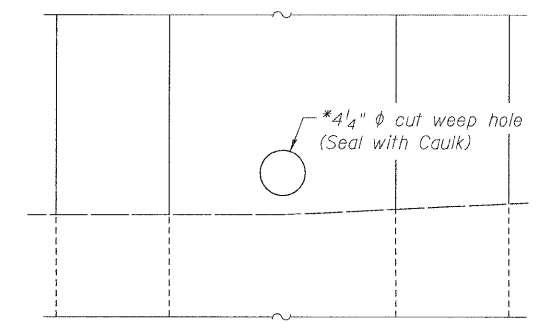


SECTION THRU WEEP HOLE

Note:
Contractor shall furnish and install a concrete splash block approved by the Engineer at the weep hole locations. Cost is included with Pipe Underdrains for Structures 4".



ELEVATION
(Looking at Front Face of Wall)

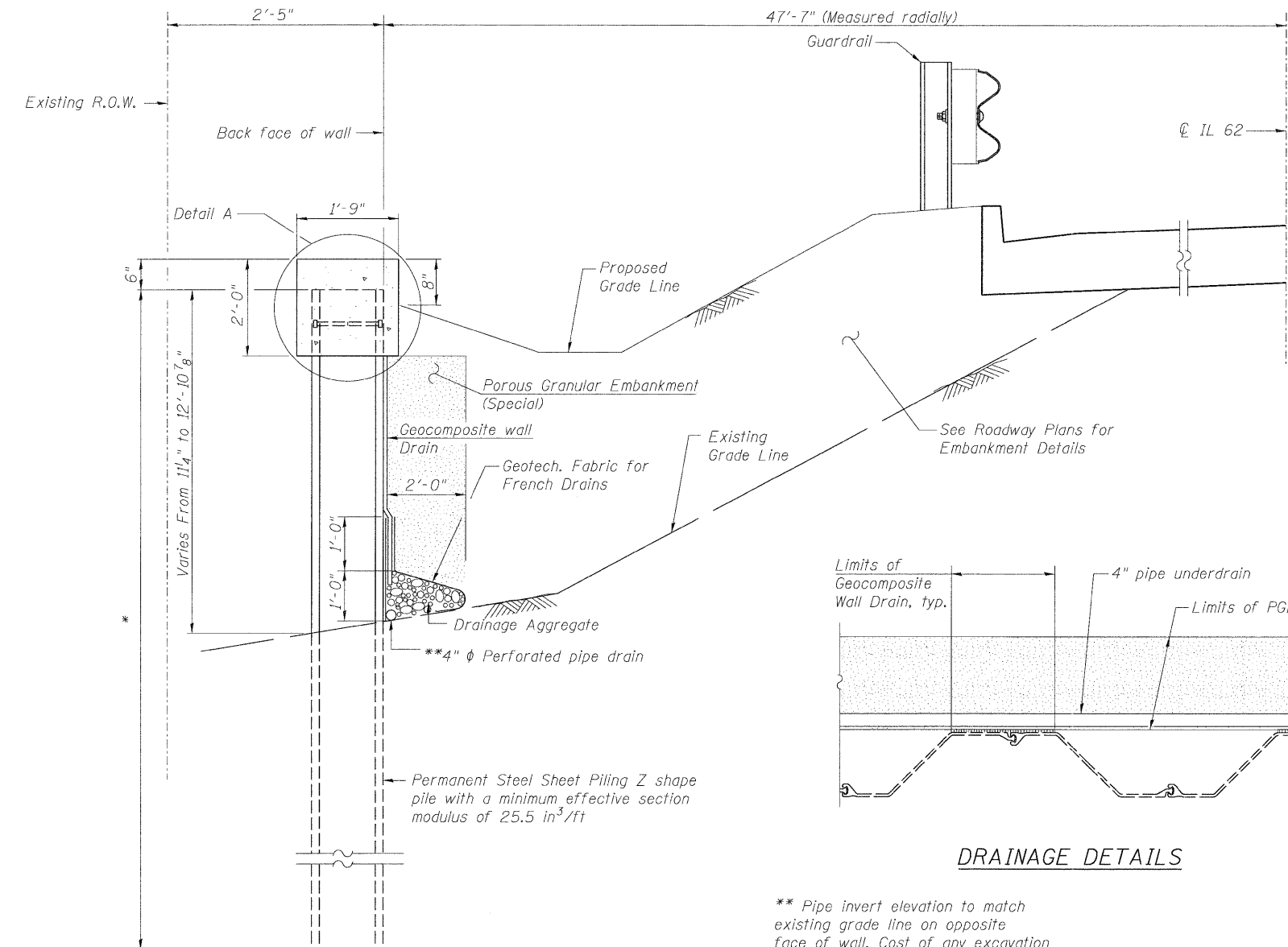


WEEP HOLE ELEVATION

*Caulk for drain shall be silicone caulking adhesive sealer, marketed for outdoor and underwater use, and listed by manufacturer as appropriate for use on PVC and steel surfaces. Surfaces shall be clean and dry prior to application. Cost is included with Pipe Underdrains for Structures 4".

Notes:
See sheet S4 of S6 for Bill of Material, Section Thru Wall, Wall Joint Details and Detail A.
Horizontal dimensions measured along face of wall.
Expansion joints shall be located at the nearest sheet piling interlock to the indicated spacing shown.

	USER NAME =	DESIGNED - ESH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WALL DETAILS-2 STRUCTURE NO. 016-W997	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	FILE NAME =	CHECKED - ADB	REVISED -			339	116 Y-1-R-1	COOK	122	78	
	PLOT SCALE =	DRAWN - RH	REVISED -			CONTRACT NO. 60135					
	PLOT DATE =	CHECKED - ADB	REVISED -			[ILLINOIS] FED. AID PROJECT					
SHEET NO. 53 OF 56 SHEETS											



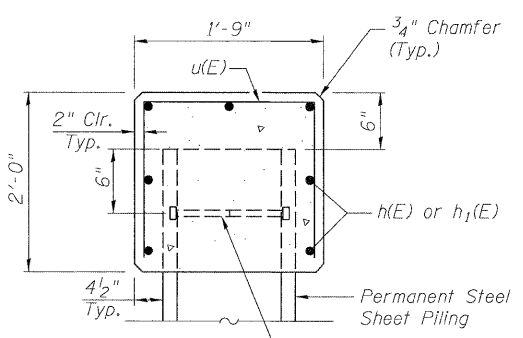
SECTION THRU WALL

** Pipe invert elevation to match existing grade line on opposite face of wall. Cost of any excavation required is included with Pipe Underdrains for Structures 4".

***MINIMUM SHEET PILE HEIGHT**

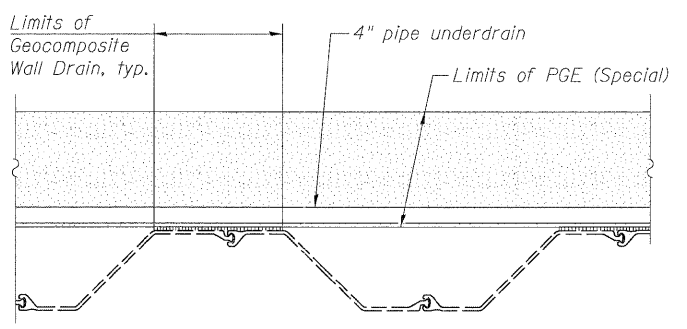
Panel	Height
Panels 1 to 2	29'-7"
Panels 3 to 8	42'-0"
Panels 9 to 10	29'-7"

Notes:
 Cost of Geotechnical Fabric and Drainage Aggregate are included in the cost of Pipe Underdrain for Structures 4".
 Perforated pipe drains shall outlet near station 515+58 thru 4 1/4" cut hole in wall.
 Cost of cutting 34" φ opening in sheet pile wall is included in the cost of Permanent Steel Sheet Piling.

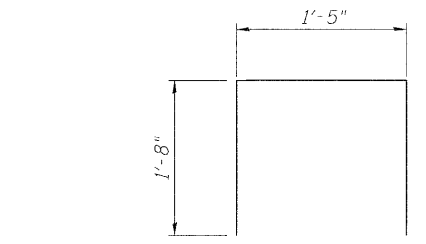


DETAIL A

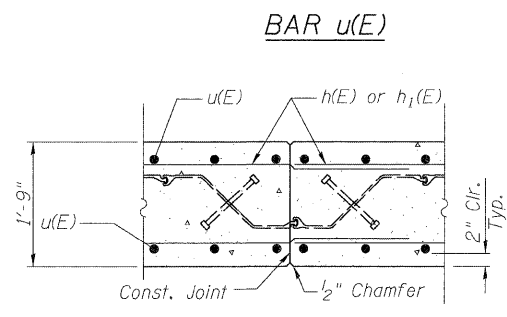
1- 3/4" φ x 5" Granular or Solid Flux Filled Headed Stud according to Art. 1006.32 of the Std. Spec's at center of each side of sheeting.



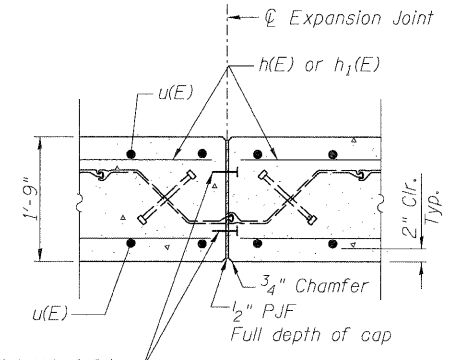
DRAINAGE DETAILS



BAR u(E)



CONSTRUCTION JOINT DETAIL

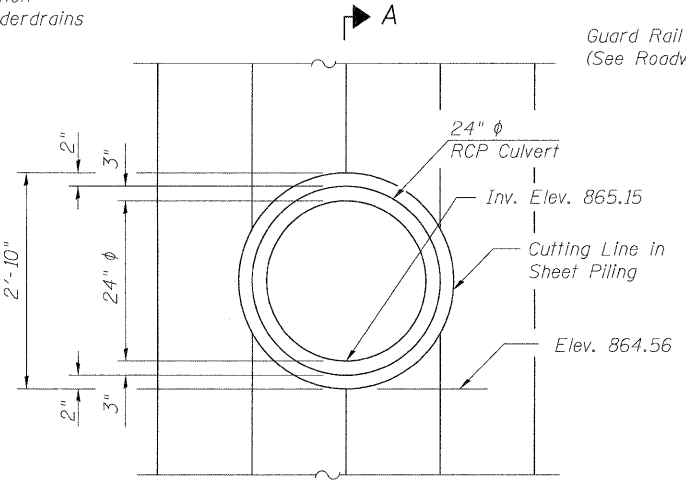


EXPANSION JOINT DETAIL

Concrete nails (Flat Hd. C.S.) 1" long at 12" cts., vertical (Cost included with Concrete Structures)

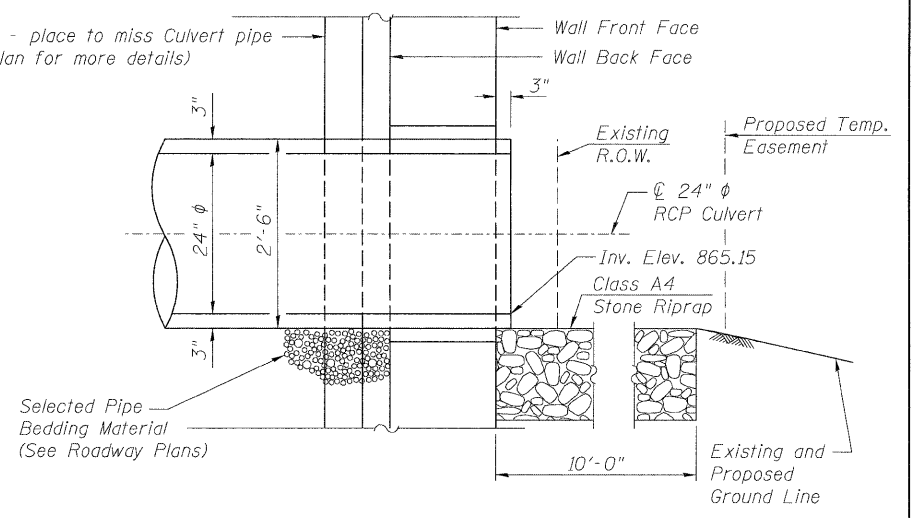
Expansion joints shall be located at the nearest sheet piling interlock to the indicated spacing shown.

Notes:
 The details for the concrete cap and reinforcement, and the required number of stud shear connectors are based on section PZ-27 sheet piling. If the Contractor chooses to use any other section, then the Contractor shall submit revised concrete cap and reinforcement configuration for approval by engineer. Such changes shall not be cause for additional compensation.



SECTION THRU PERMANENT SHEET PILING AT PIPE CULVERT

(Contractor shall seal the void around the RCP with approval by the Engineer. Cost included with Permanent Steel Sheet Piling.)



SECTION A-A

PAGE 1 of 1
DATE 4/16/2010
LOGGED BY RJ
GSI JOB No. 09177

SOIL BORING LOG

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10
SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township
COUNTY COOK DRILLING METHOD Hollow Stem Auger/ Rotary HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. RW-23
Station 516+25
Offset 9.5' Right
Ground Surface Elev. 878.0

DEPTH H (ft)	B L O W (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. <u>n/a</u>				DEPTH H (ft)	B L O W (/6")	U C S Qu (tsf)	M O I S T (%)
				Stream Bed Elev. <u>n/a</u>	Groundwater Elevation:	First Encounter <u>n/a</u>	Upon Completion <u>n/a</u>				
10.0" ASPHALT <u>877.2</u>				CLAY-very stiff to hard (A-6) <u>857.5</u>							
	3						6				
	4						6				
	5	2.5P	17				8	2.25P	18		
CLAY LOAM-brown & gray- stiff to very stiff (A-6) Fill											
	3		109				4			110	
	2	1.6S					6				
	-5	3	12.7%	21			-25	8	1.8B	19	
	2		101				4			114	
	2						6				
	3	1.0B	25				10	3.0B	18		
<u>870.0</u>				CLAY-gray-stiff to hard (A-6)							
	3						7			111	
	3						10				
	-10	5	3.5P	19			-30	17	6.0B	18	
CLAY-brown & gray- very stiff to hard (A-6)											
	3		108								
	4										
	5	2.5B	20								
	5		113				4			114	
	7						6				
	-15	7	5.1B	17			-35	6	2.0B	18	
	6		109								
	8										
	8	4.9B	19								
End Of Boring @ -40.0 Hollow Stem Augers To -10.0' Rotary Drilling To Completion 10' Of 4.0" Casing Used CME Automatic Hammer											
	5		111				3				
	5						4				
	-20	9	5.5B	19			-40	7	1.75P	20	
<u>838.0 -40</u>											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery



USER NAME =	DESIGNED - ESH	REVISED -
FILE NAME =	CHECKED - ADB	REVISED -
PLOT SCALE =	DRAWN - RH	REVISED -
PLOT DATE =	CHECKED - ADB	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

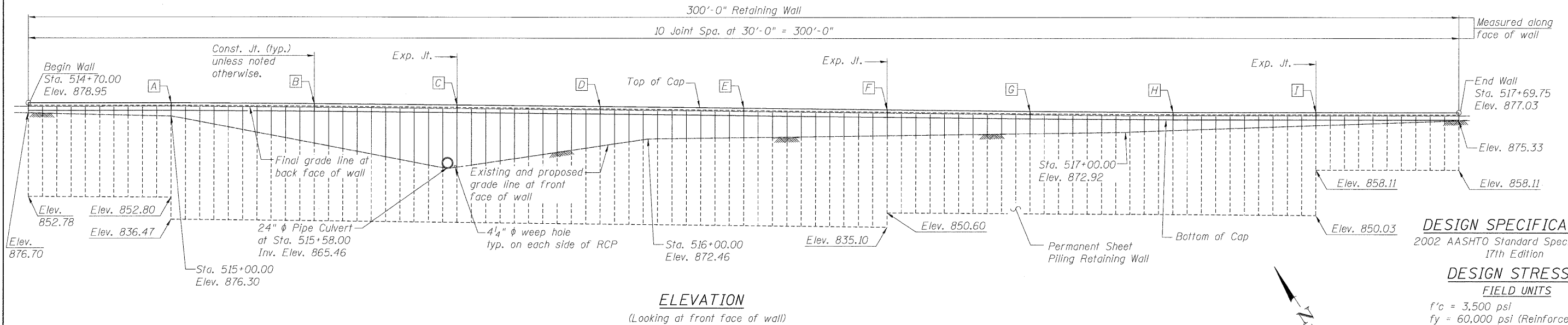
**SOIL BORINGS-2
STRUCTURE NO. 016-W997**

SHEET NO. 56 OF 56 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	81
			CONTRACT NO. 60135	
ILLINOIS FED. AID PROJECT				

Bench Mark: 1/2" Iron rod with cap, Sta. 513+52.54, 19.68' Lt., Elev. 881.31.

Existing Structure: None.



DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications,
17th Edition

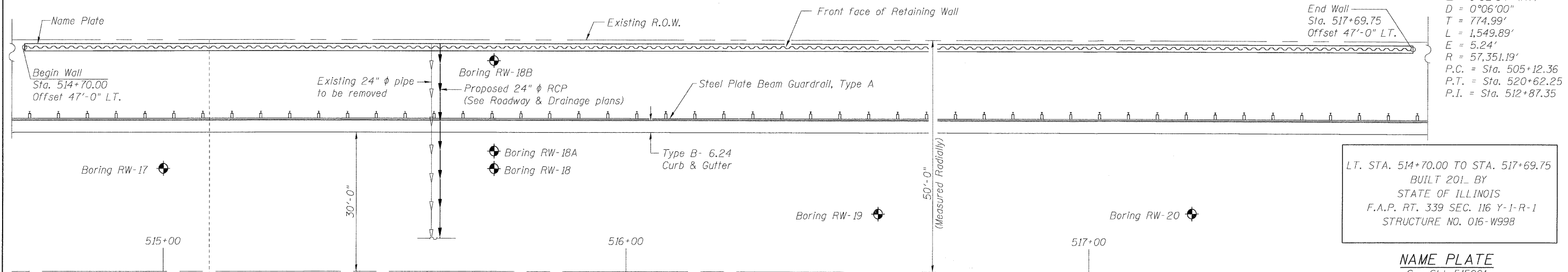
DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 38,500$ psi (Sheet Piling)
(Gr. 39 AASHTO M202)

CURVE DATA

(Illinois Route 62)
 $\Delta = 1^\circ 32' 54''$ (RT)
 $D = 0^\circ 06' 00''$
 $T = 774.99'$
 $L = 1,549.89'$
 $E = 5.24'$
 $R = 57,351.19'$
P.C. = Sta. 505+12.36
P.T. = Sta. 520+62.25
P.I. = Sta. 512+87.35



NAME PLATE
See Std. 515001

Note: Offsets measured radially to ϕ IL 62 from front face of sheet piling.

PLAN

TOP OF CAP DATA

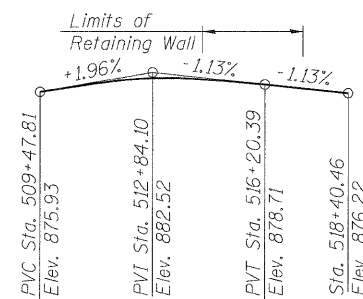
LOCATION	STATION	ELEVATION
A	514+99.98	878.97
B	515+29.95	878.78
C	515+59.93	878.54
D	515+89.90	878.26
E	516+19.88	877.95
F	516+49.85	877.60
G	516+79.83	877.26
H	517+09.80	877.03
I	517+39.78	877.03

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60. See Special Provisions.
Reinforcement bars designated (E) shall be epoxy coated.
Concrete cap shall be constructed after backfill is in place.
It shall be the Contractor's responsibility to verify the location of the existing underground utilities prior to starting construction.
The Contractor shall take precaution during pile driving operations so as not to damage any proposed and/or existing utilities.

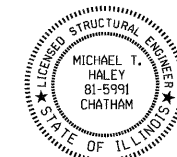
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Structures	Cu. Yd.	38.9
Stud Shear Connectors	Each	400
Reinforcement Bars, Epoxy Coated	Pound	3960
Permanent Steel Sheet Piling	Sq. Ft.	10010
Pipe Underdrains for Structures 4"	Foot	301
Geocomposite Wall Drain	Sq. Yd.	46
Porous Granular Embankment, Special	Cu. Yd.	61.0
Name Plates	Each	1



PROFILE GRADE
(along ϕ IL 62)

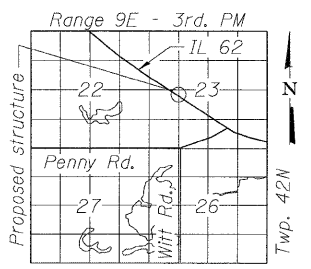
APPROVED
FOR STRUCTURAL ADEQUACY ONLY
D. Carl Puzos
ENGINEER OF BRIDGES AND STRUCTURES



Michael T. Haley
Michael T. Haley
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2012
6-21-2011
Date

INDEX OF SHEETS

1. General Plan & Elevation
2. Wall Details-1
3. Wall Details-2
4. Wall Details-3
5. Soil Borings-1
6. Soil Borings-2
7. Soil Borings-3



LOCATION SKETCH

RETAINING WALL NO. 5
STA. 514+70.00 TO STA. 517+69.75



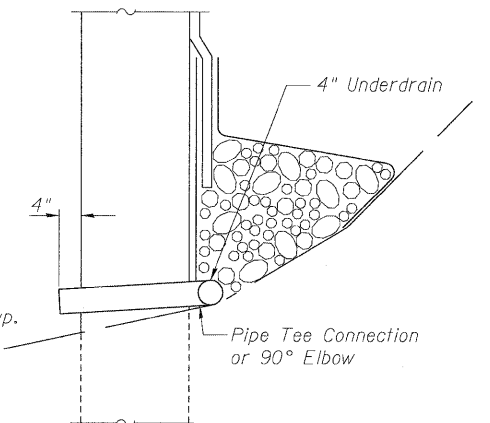
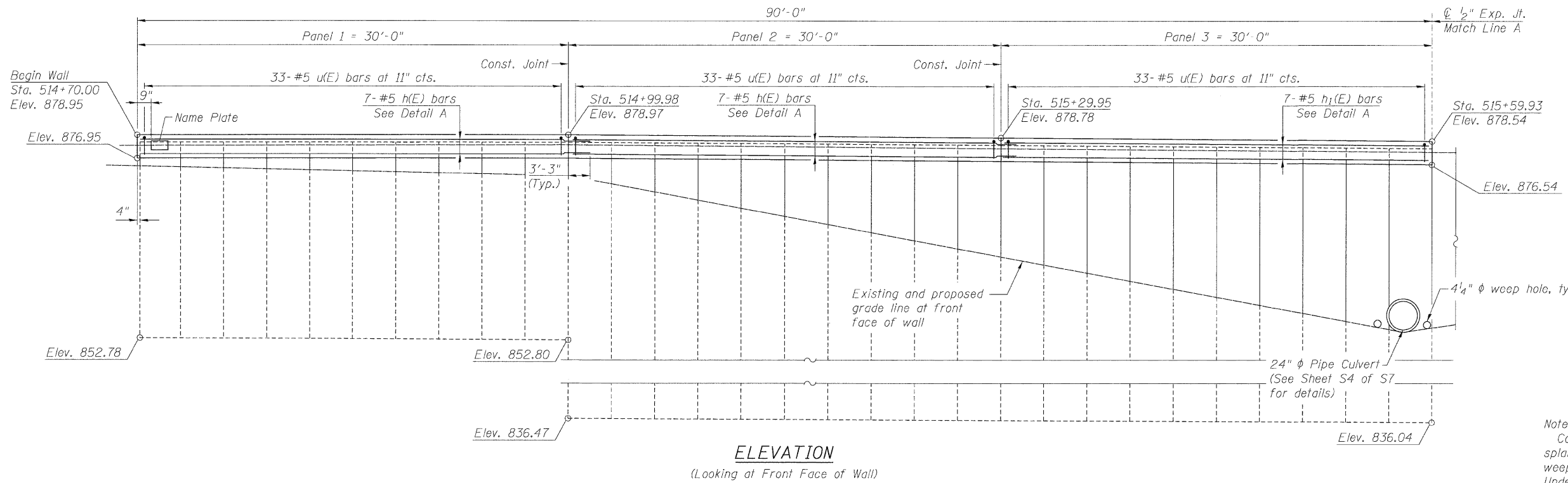
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PLOT SCALE =	CHECKED - ADB	REVISED -
PLOT DATE =	DRAWN - RH	REVISED -
	CHECKED - ADB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

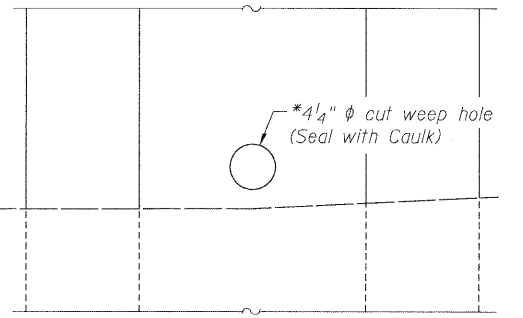
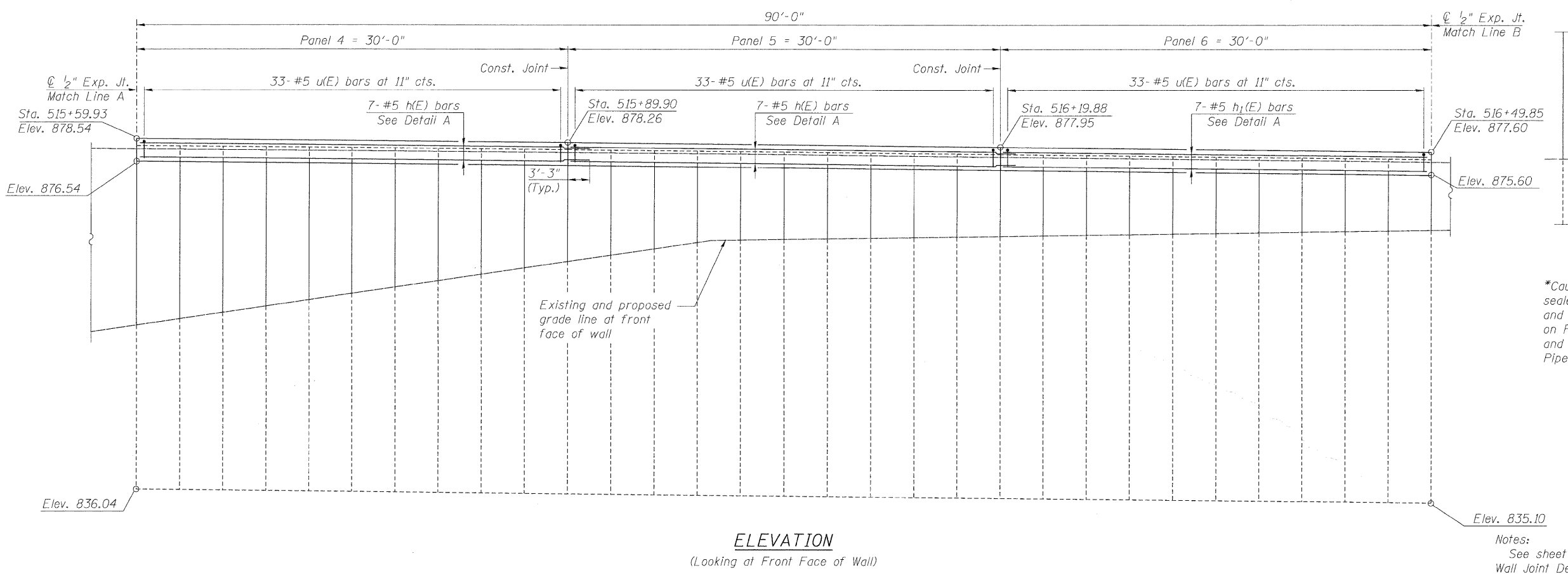
GENERAL PLAN AND ELEVATION
STRUCTURE NO. 016-W998

SHEET NO. 51 OF 57 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	82
CONTRACT NO. 60135			ILLINOIS FED. AID PROJECT	

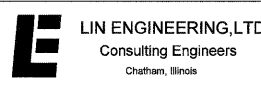


Note:
Contractor shall furnish and install a concrete splash block approved by the Engineer at the weep hole location. Cost is included with Pipe Underdrains for Structures 4".



*Caulk for drain shall be silicone caulking adhesive sealer, marketed for outdoor and underwater use, and listed by manufacturer as appropriate for use on PVC and steel surfaces. Surfaces shall be clean and dry prior to application. Cost is included with Pipe Underdrains for Structures 4".

Notes:
See sheet S4 of S7 for Bill of Material, Section Thru Wall, Wall Joint Details and Detail A.
Horizontal dimensions measured along face of wall.
Expansion joints shall be located at the nearest sheet piling interlock to the indicated spacing shown.

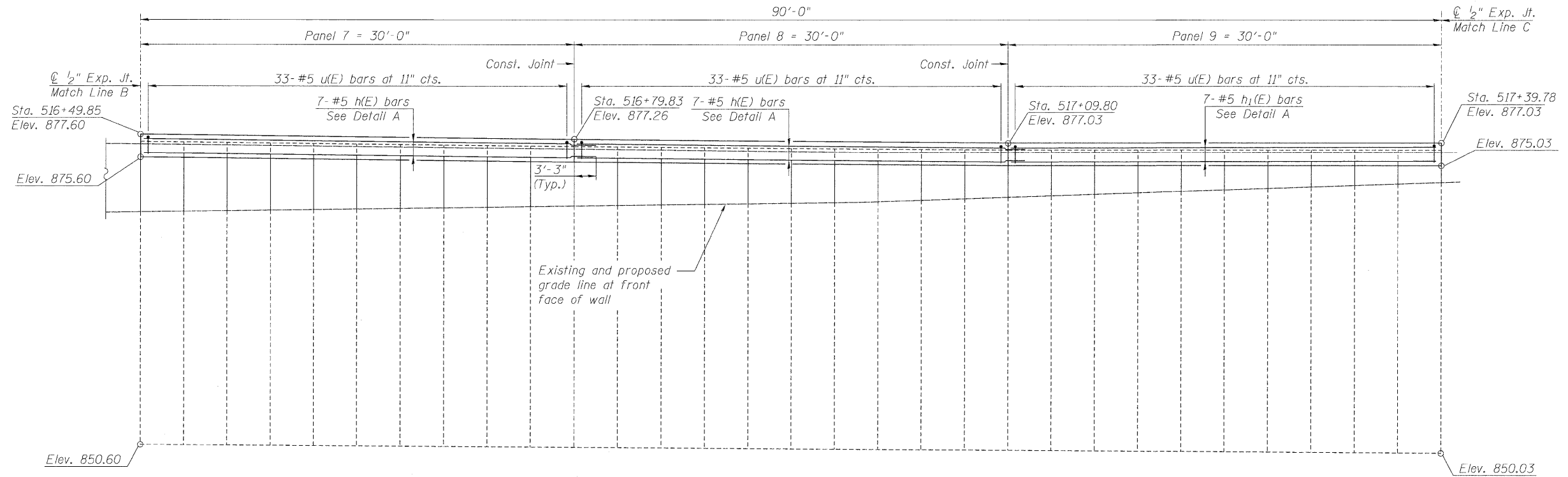


USER NAME =	DESIGNED - ESH	REVISED -
PLOT SCALE =	CHECKED - ADB	REVISED -
PLOT DATE =	DRAWN - RH	REVISED -
	CHECKED - ADB	REVISED -

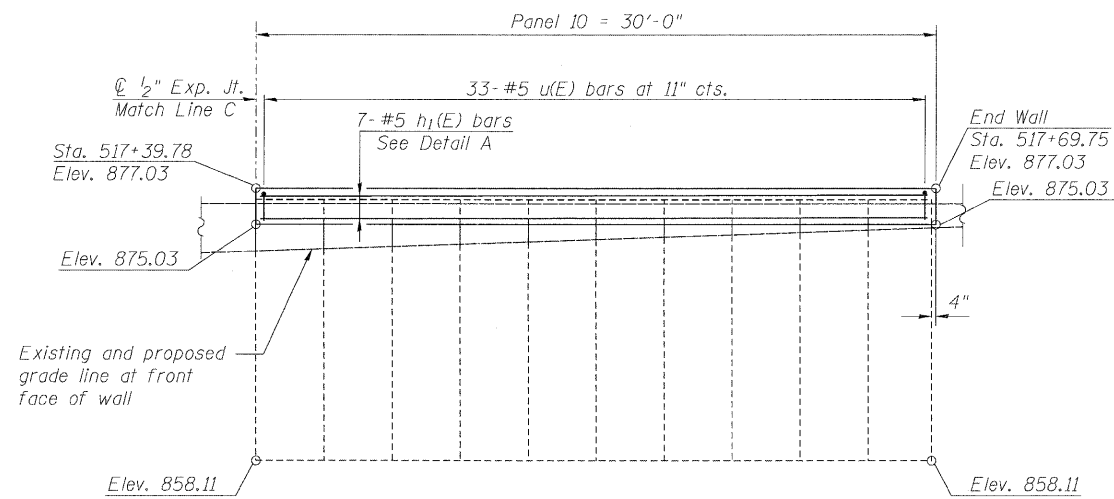
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL DETAILS-1
STRUCTURE NO. 016-W998
SHEET NO. S2 OF S7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	83
				CONTRACT NO. 60135
ILLINOIS FED. AID PROJECT				



ELEVATION
(Looking at Front Face of Wall)

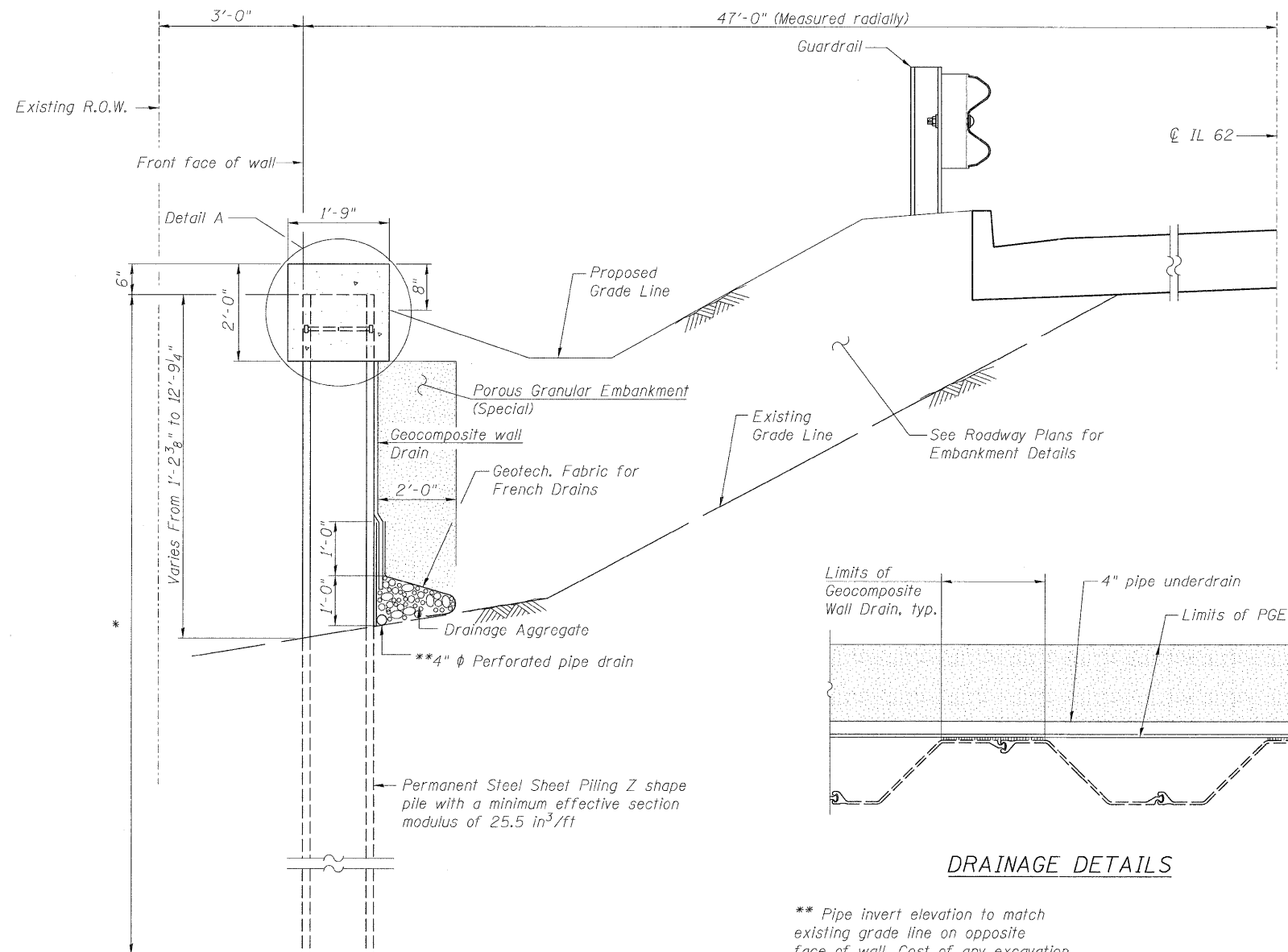


ELEVATION
(Looking at Front Face of Wall)

Notes:
See sheet S4 of S7 for Bill of Material, Section Thru Wall, Wall Joint Details and Detail A.
Horizontal dimensions measured along face of wall.
Expansion joints shall be located at the nearest sheet piling interlock to the indicated spacing shown.

USER NAME =	DESIGNED - ESH	REVISED -
PLOT SCALE =	CHECKED - ADB	REVISED -
PLOT DATE =	DRAWN - RH	REVISED -
	CHECKED - ADB	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	84
CONTRACT NO. 60135			ILLINOIS FED. AID PROJECT	



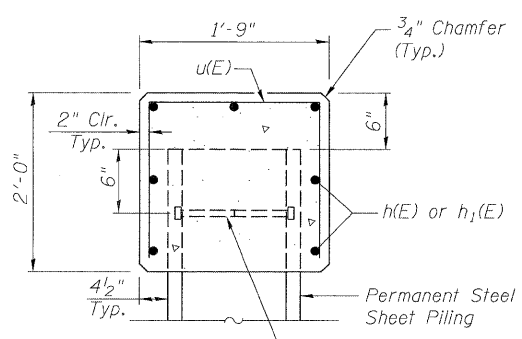
SECTION THRU WALL

** Pipe invert elevation to match existing grade line on opposite face of wall. Cost of any excavation required is included with Pipe Underdrains for Structures 4".

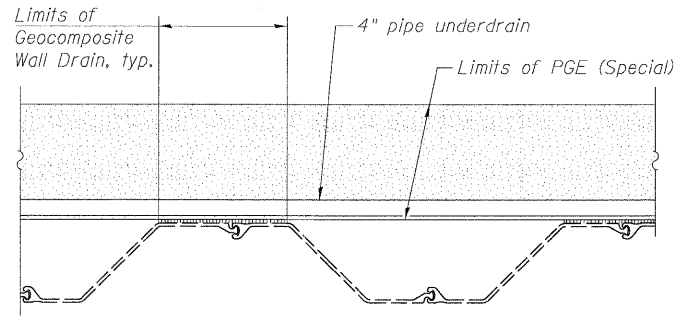
***MINIMUM SHEET PILE HEIGHT**

Panel	Height
Panel 1	25'-8"
Panels 2 to 6	42'-0"
Panels 7 to 9	26'-6"
Panel 10	18'-5"

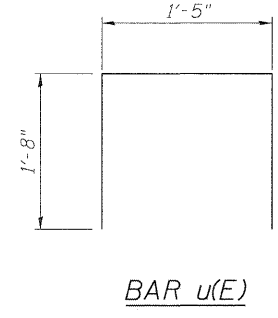
Notes:
 Cost of Geotechnical Fabric and Drainage Aggregate are included in the cost of Pipe Underdrain for Structures 4".
 Perforated pipe drain shall outlet near station 515+58 thru 4 1/4" cut hole in wall.
 Cost of cutting 34" ϕ opening in sheet pile wall is included in the cost of Permanent Steel Sheet Piling.



DETAIL A



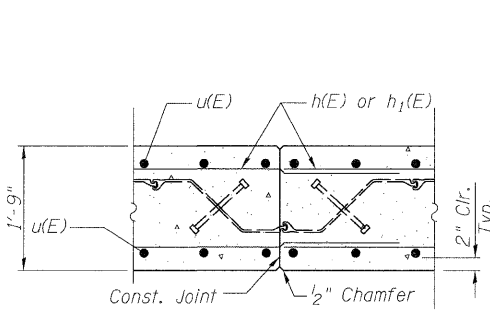
DRAINAGE DETAILS



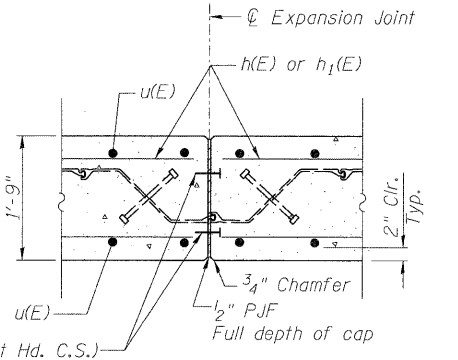
BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	42	#5	33'-1"	—
h1(E)	28	#5	29'-8"	—
u(E)	330	#5	4'-9"	U
Concrete Structures			Cu. Yd.	38.9
Reinforcement Bars, Epoxy Coated			Pound	3960



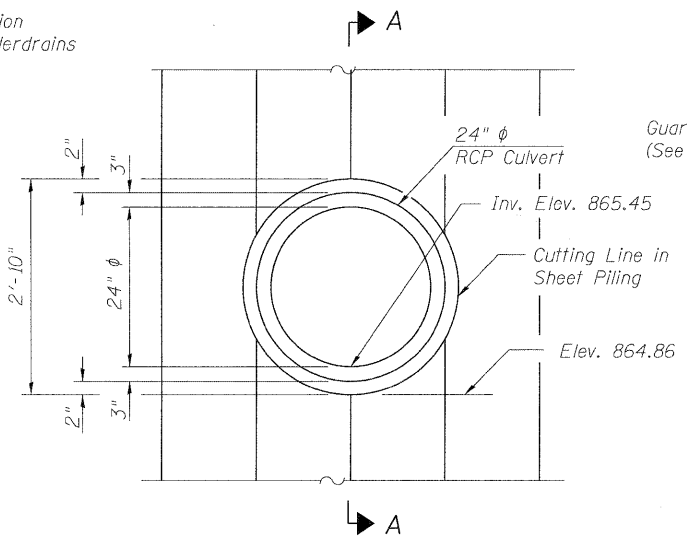
CONSTRUCTION JOINT DETAIL



EXPANSION JOINT DETAIL

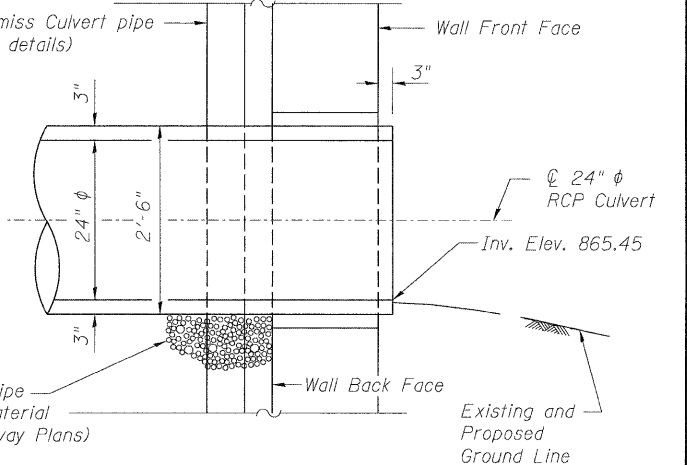
Expansion joints shall be located at the nearest sheet piling interlock to the indicated spacing shown.

Notes:
 The details for the concrete cap and reinforcement, and the required number of stud shear connectors are based on section PZ-27 sheet piling. If the Contractor chooses to use any other section, then the Contractor shall submit revised concrete cap and reinforcement configuration for approval by engineer. Such changes shall not be cause for additional compensation.



SECTION THRU PERMANENT SHEET PILING AT PIPE CULVERT

(Contractor shall seal the void around the RCP with approval by the Engineer. Cost included with Permanent Steel Sheet Piling.)



SECTION A-A



USER NAME =	DESIGNED - ESH	REVISD -
PLOT SCALE =	CHECKED - ADB	REVISD -
PLOT DATE =	DRAWN - RH	REVISD -
	CHECKED - ADB	REVISD -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WALL DETAILS-3
 STRUCTURE NO. 016-W998**

F.A.P. RTE. 339	SECTION 116 Y-1-R-1	COUNTY COOK	TOTAL SHEETS 122	SHEET NO. 85
CONTRACT NO. 60135				ILLINOIS FED. AID PROJECT

SHEET NO. 54 OF 57 SHEETS

PAGE 1 of 1
DATE 4/29/2010
LOGGED BY MR
GSI JOB No. 09177

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Arnhem Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10
SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township
COUNTY COOK DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. **RW-18A**
Station 515+65
Offset 20.0' Left
Ground Surface Elev. 878.2

DEPTH (ft)	BLOW S	UCS Qu	MOIST (%)	Surface Water Elev. <u>n/a</u>				Stream Bed Elev. <u>n/a</u>				Groundwater Elevation:			
												First Encounter <u>n/a</u> ▼			
				Upon Completion <u>n/a</u> ▼				After <u> </u> Hrs. <u> </u> ▼							
Blind Drill To -13.0'															
-5								-25							
-10								-30							
-15	ST							-35							
-20	ST		NR					-40							

End Of Boring @ -19.0
Hollow Stem Augers
CME Automatic Hammer

CLAY-brown & gray-
medium stiff (A-6) Wet
Vane Shear Test @ -16.0'
Shear Strength=3517+ psf

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in *italics* above moist (%)
NR-No Recovery

PAGE 1 of 1
DATE 5/11/2010
LOGGED BY MD
GSI JOB No. 09177

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Arnhem Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10
SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township
COUNTY COOK DRILLING METHOD Hand Auger HAMMER TYPE CME Automatic

STRUCT. NO. -
Station -
BORING NO. **RW-18B**
Station 515+65
Offset 47.0' Left
Ground Surface Elev. 876.1

DEPTH (ft)	BLOW S	UCS Qu	MOIST (%)	Surface Water Elev. <u>n/a</u>				Stream Bed Elev. <u>n/a</u>				Groundwater Elevation:			
												First Encounter <u>n/a</u> ▼			
				Upon Completion <u>n/a</u> ▼				After <u> </u> Hrs. <u> </u> ▼							
875.1	AS	-	33												
873.1	AS	1.5P	4												
869.1	AS	1.75P	20					-25							
-10								-30							
-15								-35							
-20								-40							

Auger Refusal @ -7.0'
End Of Boring
Hand Auger

TOPSOIL-black

SAND & GRAVEL-brown (Fill)

SILTY CLAY-dark brown-
stiff (A-6)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in *italics* above moist (%)
NR-No Recovery



USER NAME =	DESIGNED - ESH	REVISED -
PLOT SCALE =	CHECKED - ADB	REVISED -
PLOT DATE =	DRAWN - RH	REVISED -
	CHECKED - ADB	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORINGS-2
STRUCTURE NO. 016-W998**

SHEET NO. 56 OF 57 SHEETS

F.A.P. RTE. 339	SECTION 116 Y-1-R-1	COUNTY COOK	TOTAL SHEETS 122	SHEET NO. 87
CONTRACT NO. 60135				
ILLINOIS FED. AID PROJECT				

Bench Mark: 1/2" Iron rod with cap. Sta. 513+52.54, 19.68' Lt., Elev. 881.31.

Existing Structure: None.

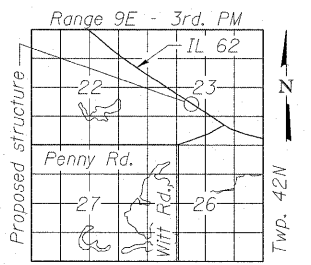
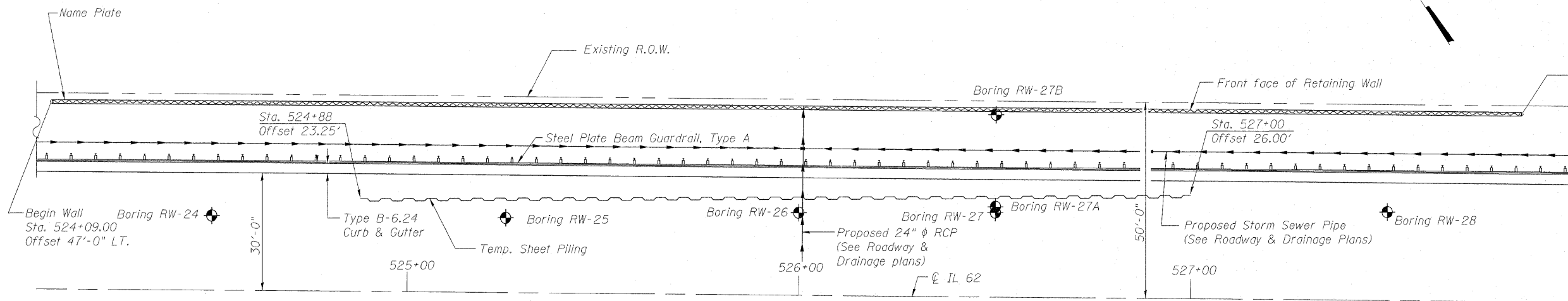
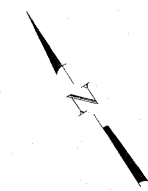
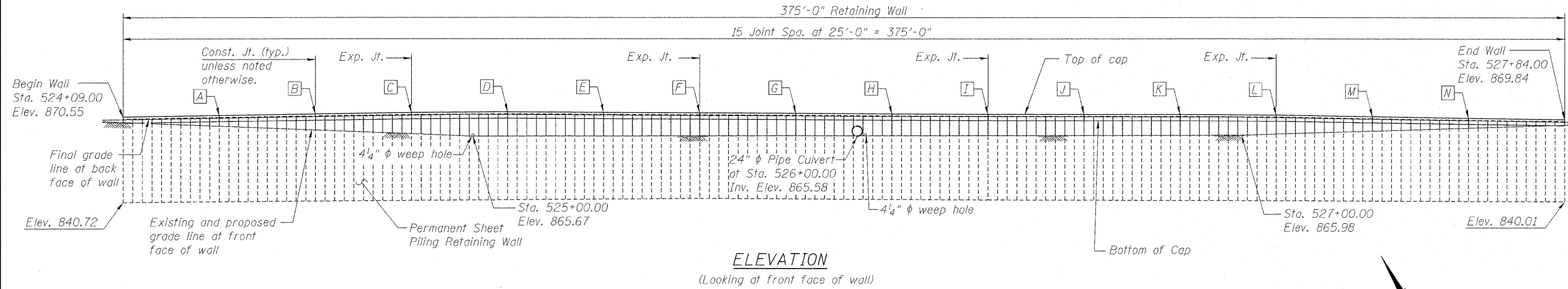
DESIGN SPECIFICATIONS
2002 AASHTO Standard Specifications,
17th Edition

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 38,500 psi (Sheet Piling)
(Gr. 39 AASHTO M 202)

INDEX OF SHEETS

1. General Plan & Elevation
2. Wall Details-1
3. Wall Details-2
4. Wall Details-3
5. Wall Details-4
6. Soil Borings-1
7. Soil Borings-2
8. Soil Borings-3
9. Soil Borings-4



Note:
Offsets measured to IL 62 from front face of sheet piling.

LT. STA. 524+09.00 TO STA. 527+84.00
BUILT 201L BY
STATE OF ILLINOIS
F.A.P. RT. 339 SEC. 116 Y-1-R-1
STRUCTURE NO. 016-W999

NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Structures	Cu. Yd.	48.6
Stud Shear Connectors	Each	410
Reinforcement Bars, Epoxy Coated	Pound	4810
Permanent Sheet Piling	Sq. Ft.	11000
Pipe Underdrains for Structures 4"	Foot	376
Geocomposite Wall Drain	Sq. Yd.	66
Porous Granular Embankment, Special	Cu. Yd.	87.7
Name Plates	Each	1
Temporary Sheet Piling	Sq. Ft.	5300

TOP OF CAP DATA

LOCATION	STATION	ELEVATION
A	524+34.00	870.90
B	524+59.00	871.25
C	524+84.00	871.60
D	525+09.00	871.78
E	525+34.00	871.65
F	525+59.00	871.53
G	525+84.00	871.40
H	526+09.00	871.28
I	526+34.00	871.18
J	526+59.00	871.12
K	526+84.00	871.10
L	527+09.00	870.95
M	527+34.00	870.54
N	527+59.00	870.17

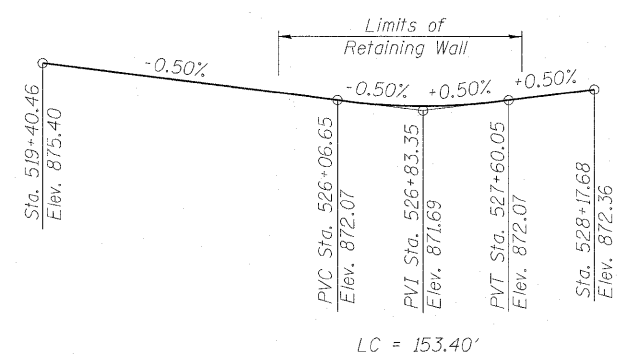
GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.
Reinforcement bars designated (E) shall be epoxy coated.
Concrete Cap shall be constructed after backfill is in place.

It shall be the Contractor's responsibility to verify the location of the existing underground utilities prior to starting construction.

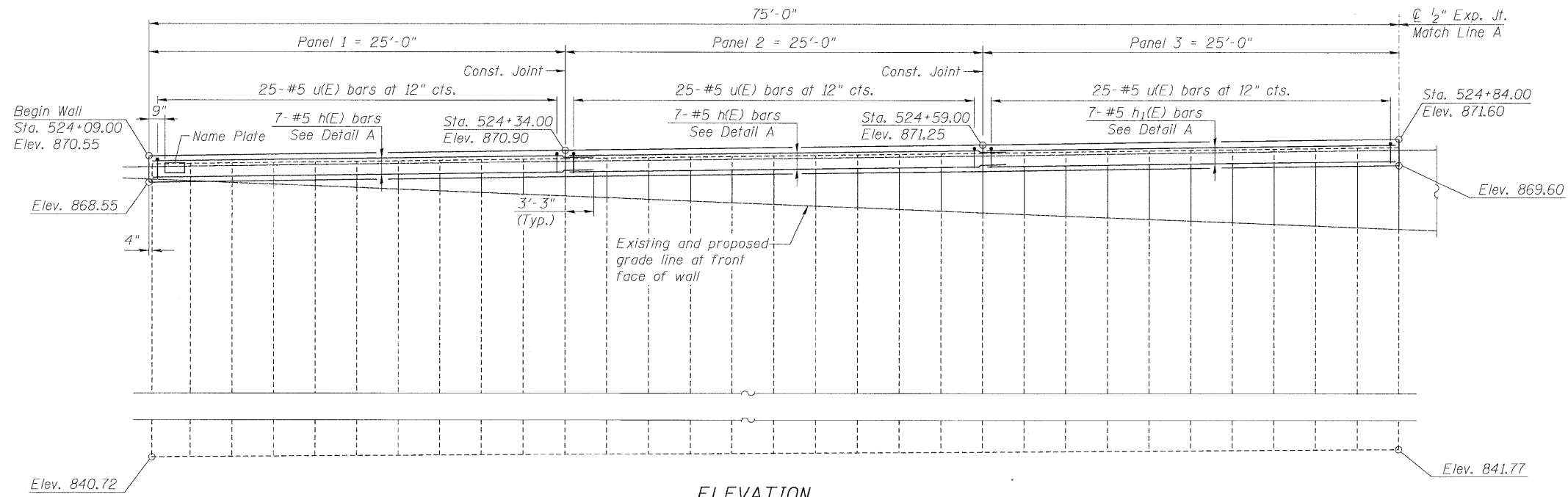
The Contractor shall take precaution during pile driving operations so as not to damage any proposed and/or existing utilities.

Dewatering may be required behind sheet pile wall in order to install drainage material. Cost shall be included with Permanent Sheet Piling.

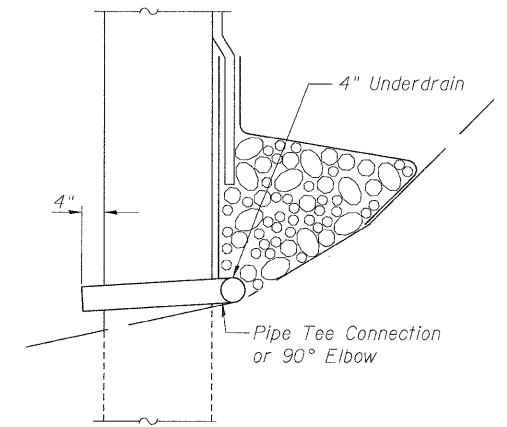


Michael J. Haley 10-21-2011
Michael T. Haley
Licensed Structural Engineer
State of Illinois No. 81-5991
Expires 11/30/2012

RETAINING WALL NO. 6
STA. 524+09.00 TO STA. 527+84.00

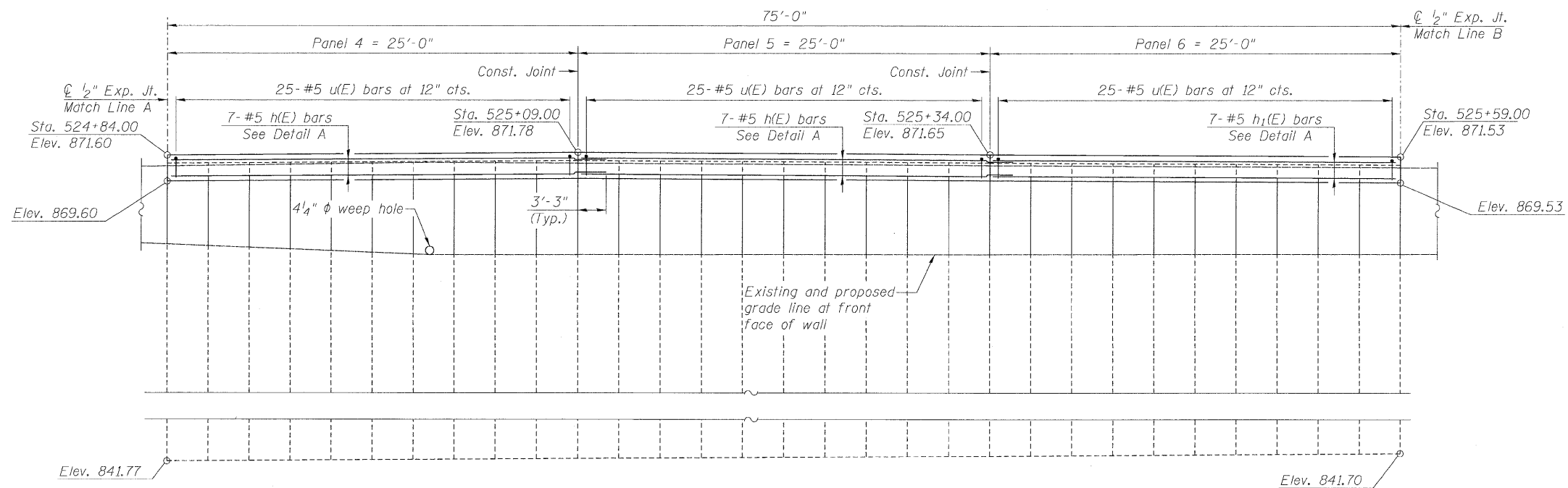


ELEVATION
(Looking at Front Face of Wall)

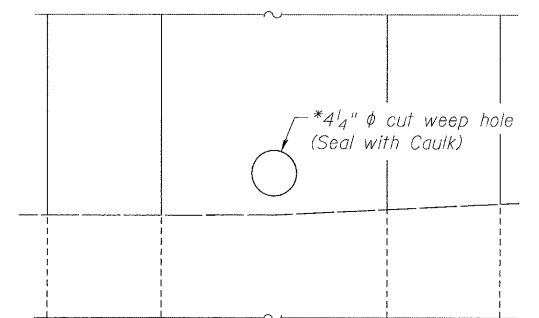


SECTION THRU WEEP HOLE

Note:
Contractor shall furnish and install a concrete splash block approved by the Engineer at the weep hole location, Cost is included with Pipe Underdrains for Structures 4".



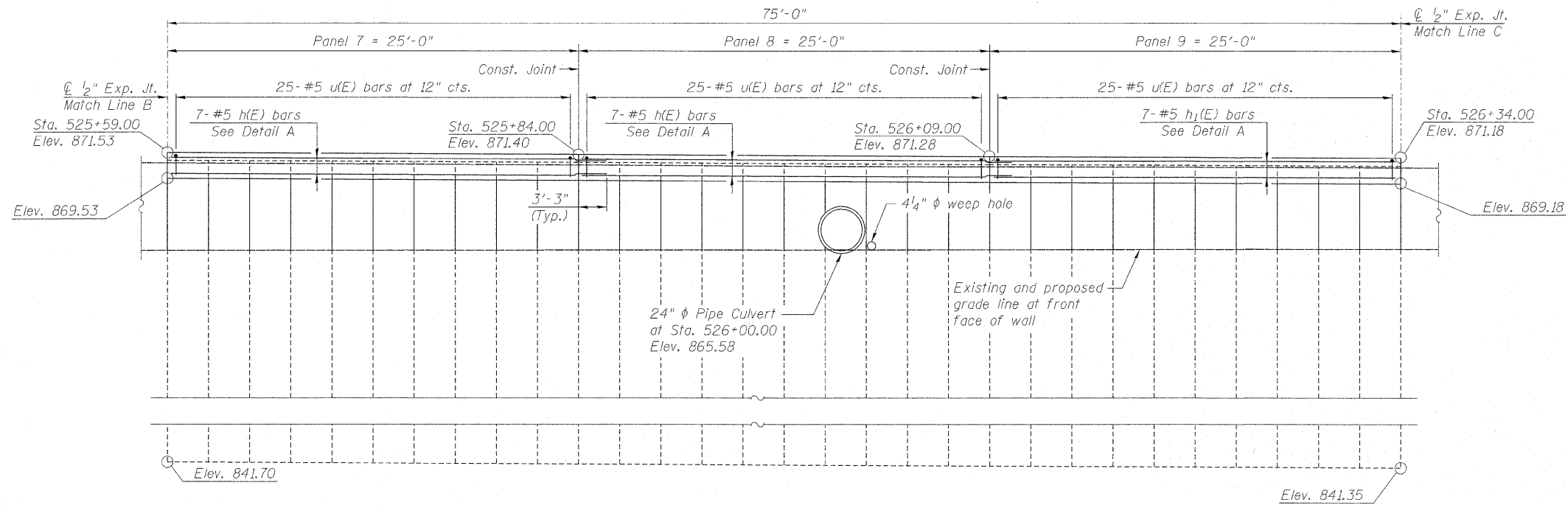
ELEVATION
(Looking at Front Face of Wall)



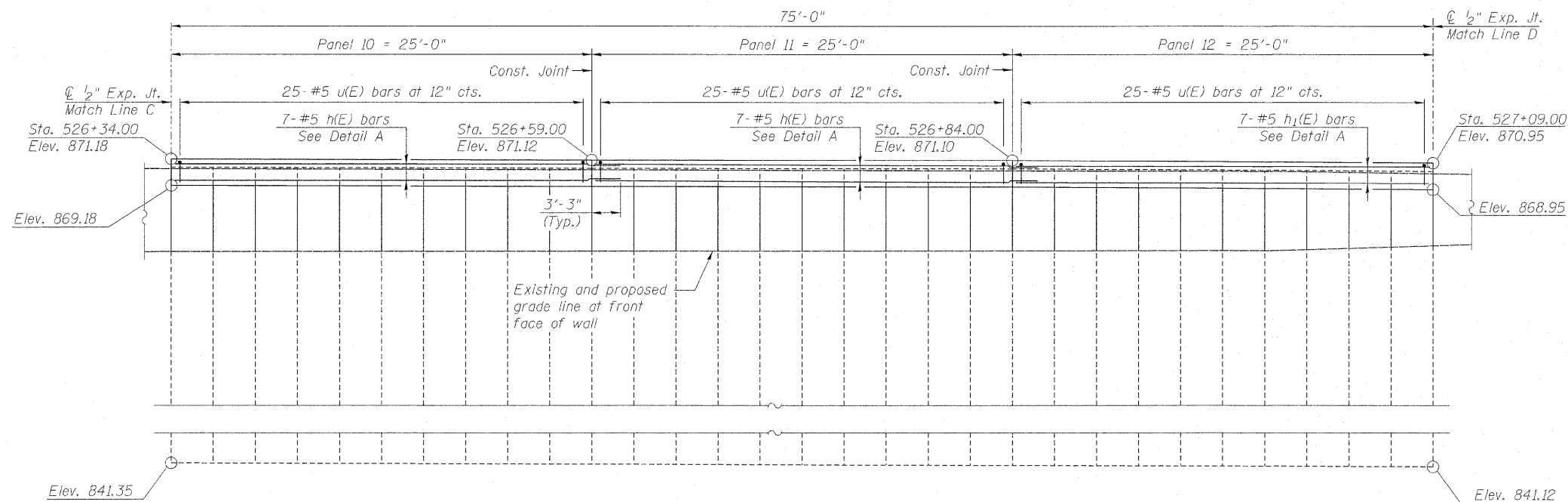
WEEP HOLE ELEVATION

*Caulk for drain shall be silicone caulking adhesive sealer, marketed for outdoor and underwater use, and listed by manufacturer as appropriate for use on PVC and steel surfaces. Surfaces shall be clean and dry prior to application. Cost is included with Pipe Underdrains for Structures 4".

Notes:
See sheet S5 of S9 for Bill of Material, Section Thru Wall, Wall Joint Details and Detail A.
Expansion joints shall be located at the nearest sheet piling interlock to the indicated spacing shown.



ELEVATION
(Looking at Front Face of Wall)



ELEVATION
(Looking at Front Face of Wall)

Notes:
See sheet S5 of S9 for Bill of Material, Section Thru Wall, Wall Joint Details and Detail A.
See sheet S2 of S9 for weep hole details.
Expansion joints shall be located at the nearest sheet piling interlock to the indicated spacing shown.



USER NAME =	DESIGNED - ESH	REVISED - MTH 10/21/11
	CHECKED - ADB	REVISED -
PLOT SCALE =	DRAWN - RH	REVISED -
PLOT DATE =	CHECKED - ADB	REVISED -

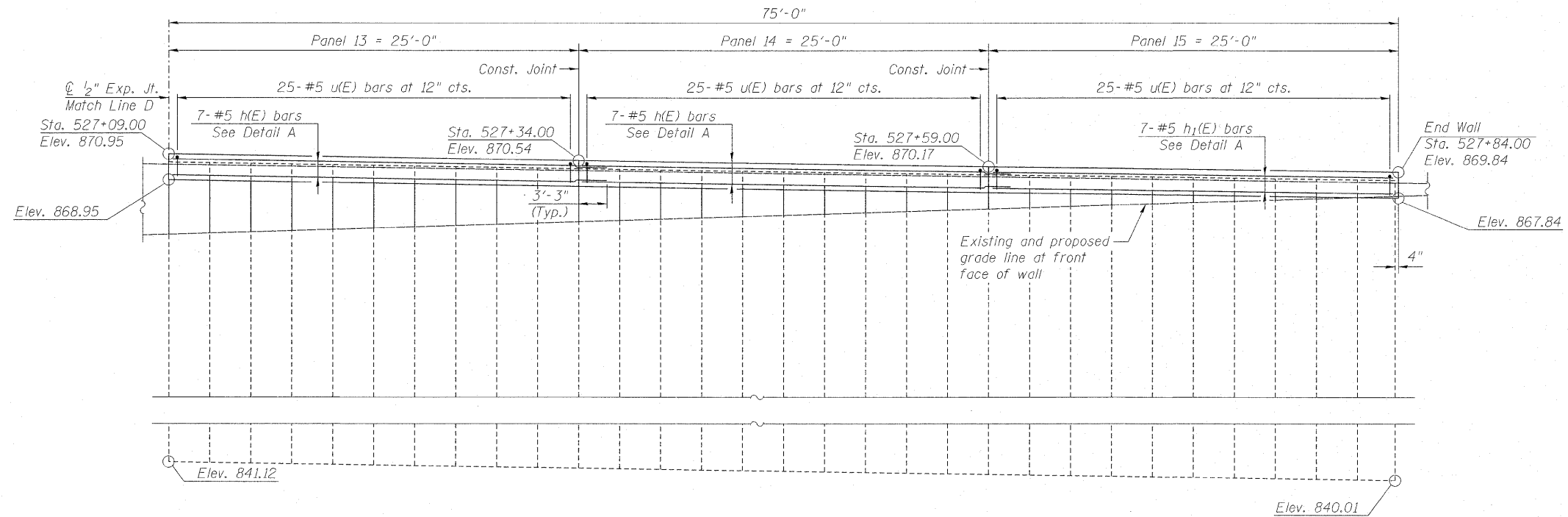
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL DETAILS-2
STRUCTURE NO. 016-W999

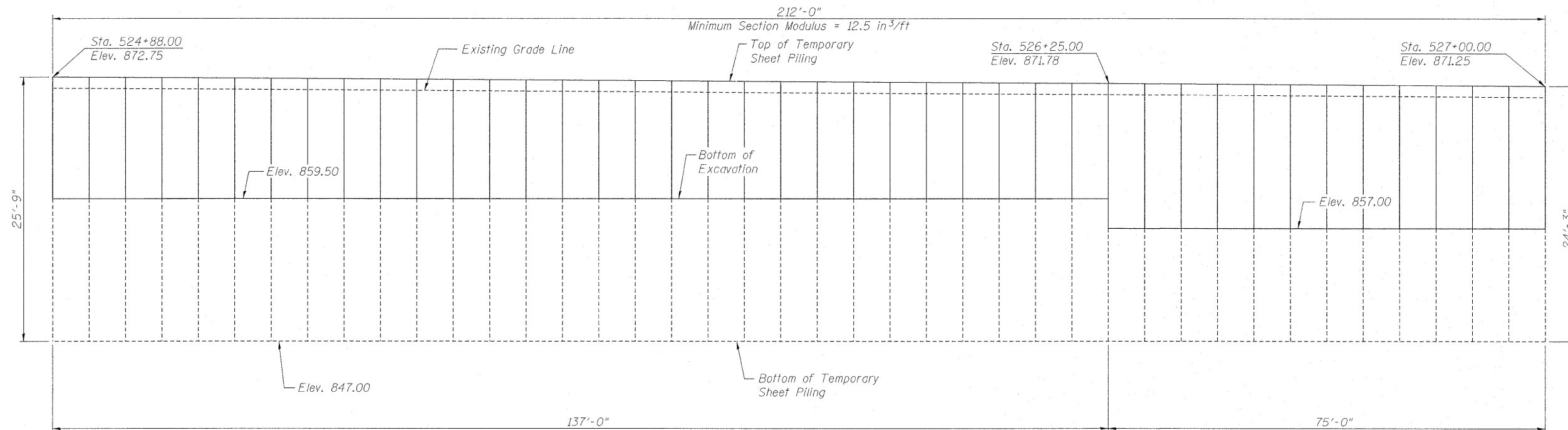
SHEET NO. S3 OF S9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	91
CONTRACT NO. 60135				

ILLINOIS FED. AID PROJECT



ELEVATION
(Looking at Front Face of Wall)

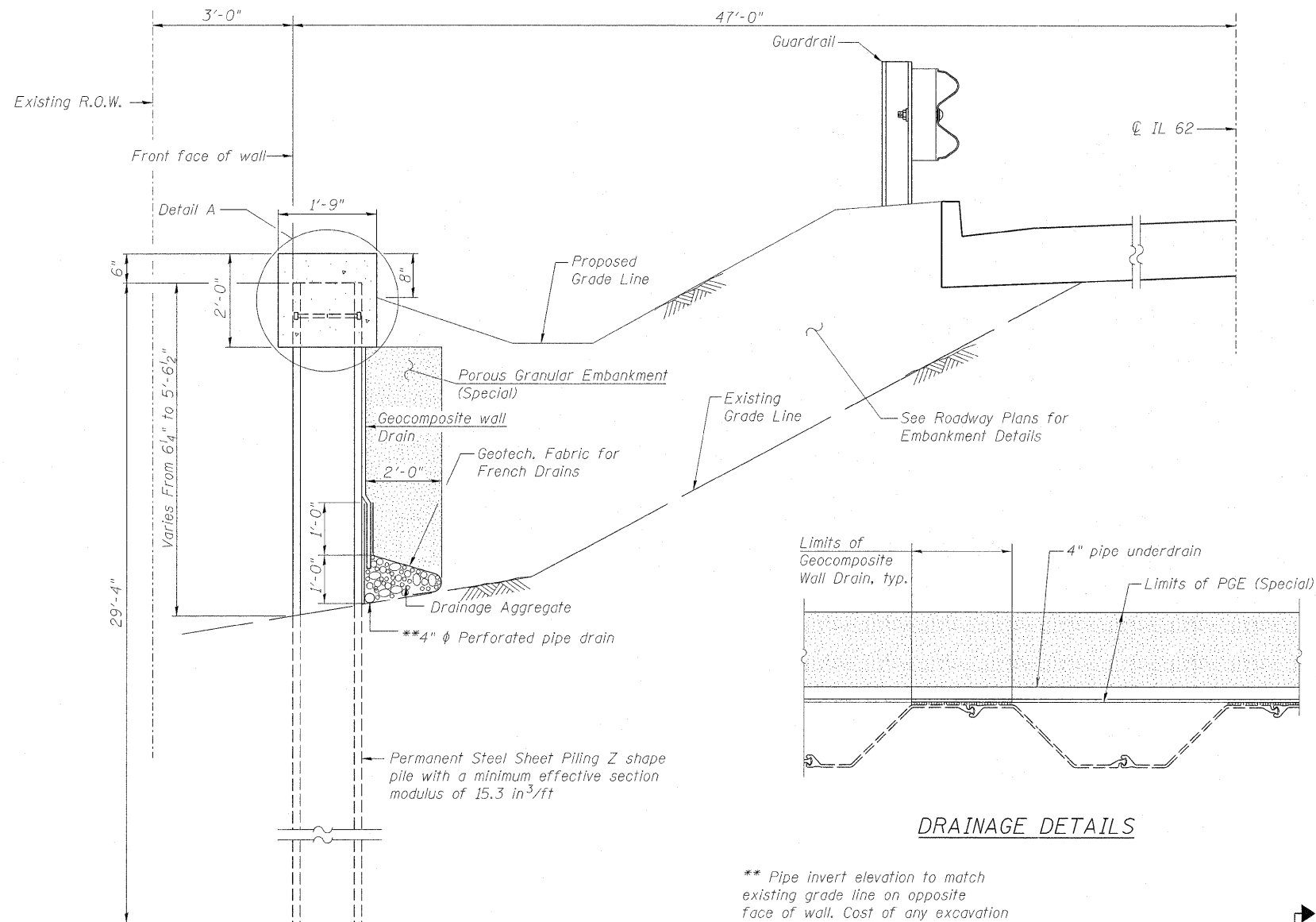


TEMPORARY SHEET PILING

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

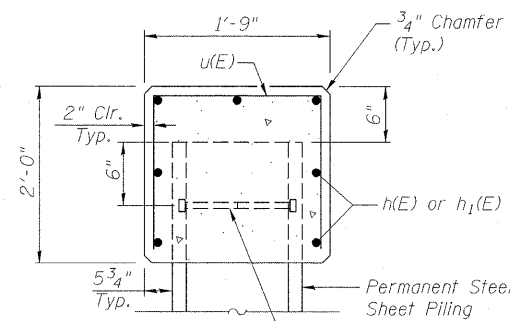
Notes:
See sheet S5 of S9 for Bill of Material, Section Thru Wall, Wall Joint Details and Detail A.
Expansion joints shall be located at the nearest sheet piling interlock to the indicated spacing shown.

	USER NAME =	DESIGNED - ESH	REVISED - MTH 9/30/11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WALL DETAILS-3 STRUCTURE NO. 016-W999 SHEET NO. S4 OF S9 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - ADB	REVISED -			339	116 Y-1-R-1	COOK	122	92
	PLOT DATE =	DRAWN - RH	REVISED -			CONTRACT NO. 60135				
		CHECKED - ADB	REVISED -	ILLINOIS FED. AID PROJECT						



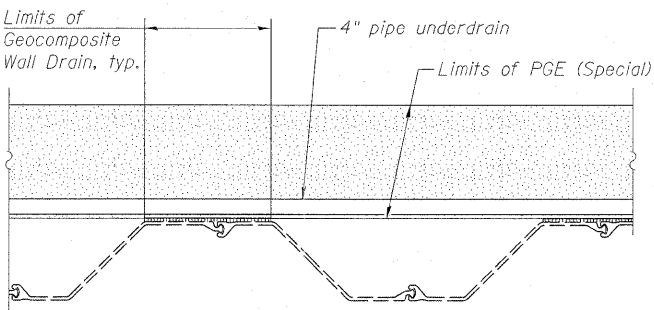
SECTION THRU WALL

** Pipe invert elevation to match existing grade line on opposite face of wall. Cost of any excavation required is included with Pipe Underdrains for Structures 4".

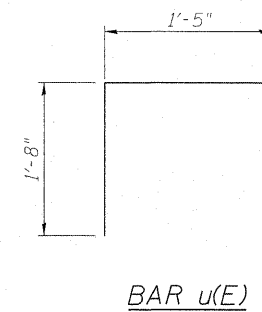


DETAIL A

Notes:
 Cost of Geotechnical Fabric and Drainage Aggregate are included in the cost of Pipe Underdrain for Structures 4".
 Perforated pipe drain shall outlet near stations 525+00 and 526+00 thru 4 1/4" cut hole in wall.
 Cost of cutting 3 1/4" opening in sheet pile wall is included in the cost of Permanent Steel Sheet Piling.

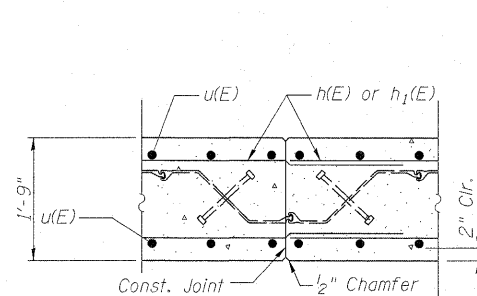


DRAINAGE DETAILS

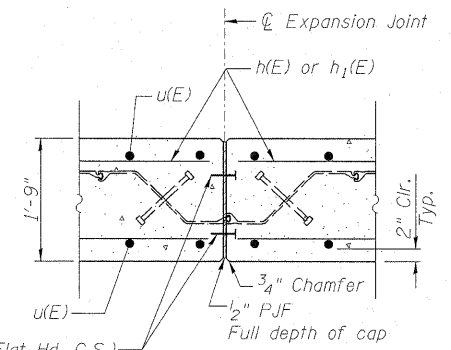


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	70	#5	28'-1"	—
h ₁ (E)	35	#5	24'-8"	—
u(E)	375	#5	4'-9"	┐
Concrete Structures			Cu. Yd.	48.6
Reinforcement Bars, Epoxy Coated			Pound	4810



CONSTRUCTION JOINT DETAIL

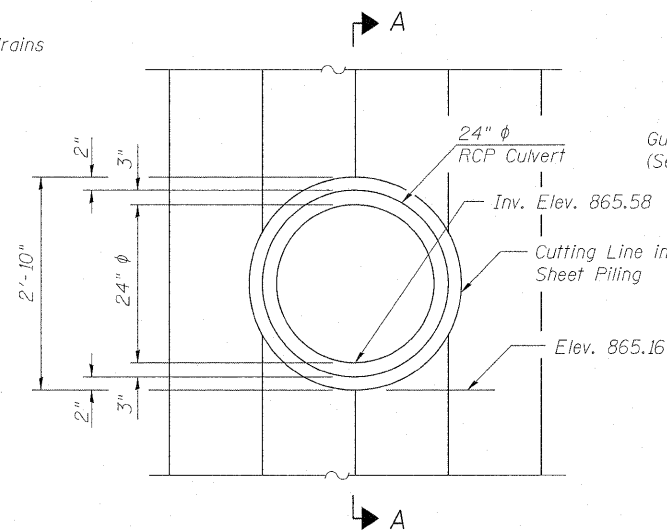


EXPANSION JOINT DETAIL

Concrete nails (Flat Hd. C.S.)
 1" long at 12" cts., vertical
 (Cost included with Concrete Structures)

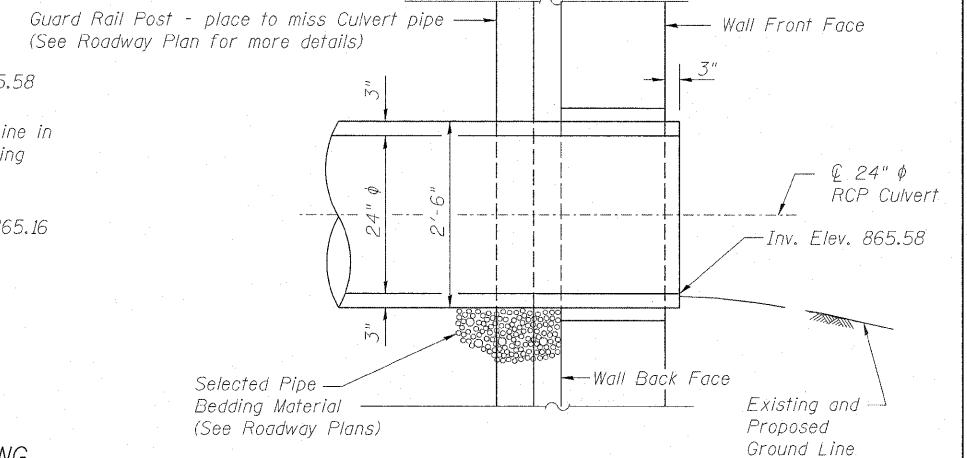
Expansion joints shall be located at the nearest sheet piling interlock to the indicated spacing shown.

Notes:
 The details for the concrete cap and reinforcement, and the required number of stud shear connectors are based on section PZ-22 sheet piling. If the Contractor chooses to use any other section, then the Contractor shall submit revised concrete cap and reinforcement configuration for approval by engineer. Such changes shall not be cause for additional compensation.




SECTION THRU PERMANENT SHEET PILING AT PIPE CULVERT

(Contractor shall seal the void around the RCP with approval by the Engineer. Cost included with Permanent Steel Sheet Piling.)



SECTION A-A



Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Arnhart Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

PAGE 1 of 1
DATE 3/8/2010
LOGGED BY MD
GSI JOB No. 09177

ROUTE FAP 339 (IL Route 62) DESCRIPTION IL Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10
 SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township
 COUNTY COOK DRILLING METHOD Hollow Stem Auger/ Rotary HAMMER TYPE CME Automatic


STRUCT. NO.
 Station
BORING NO. RW-28
 Station 527+50
 Offset 22.5' Left
 Ground Surface Elev. 871.2

D	B	U	M
E	L	C	O
P	O	S	I
T	W	Qu	S
H	S		T

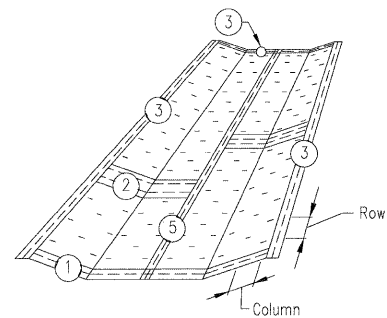
Surface Water Elev. n/a
 Stream Bed Elev. n/a
 Groundwater Elevation:
 First Encounter 867.2 ▾
 Upon Completion n/a ▾
 After Hrs. ▾

	D (ft)	B (/6")	U (tsf)	M (%)	DEPTHS									
					D	B	U	M						
16.0" CONCRETE, 8.0" CRUSHED STONE	0	0	0	0										
869.2					2					2			105	
					3					4	1.1B		22	
					4			6						
CLAY to CLAY LOAM—dark brown— very stiff (A-6) Fill					5					3			109	
865.7					4					3				
					-5		3	2.7B	18	-25	6		25	
					2					2			114	
SILTY CLAY—dark brown & gray— stiff (A-6) Wet					2					4				
863.2					4	1.1B		32		5	1.2B		18	
					3					3			107	
CLAY—brown & gray—hard (A-6)					4					5				
860.7					-10	7	5.0B	18		-30	7	1.7B	21	
					3									
					5									
					7	2.4B		20						
					3					4			108	
CLAY—gray—stiff to very stiff (A-6)					5					4				
831.2					-15	7	2.6B	19		-35	6	1.4B	22	
					3									
					4									
					6	1.1B		15						
					3					3			107	
					4					5				
					-20	6	1.0B	15		831.2	-40	7	1.3B	21

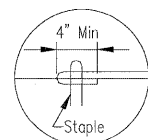
End Of Boring @ -40.0'
 Hollow Stem Augers To -10.0'
 Rotary Drilling To Completion
 10' Of 4.0" Casing Used
 CME Automatic Hammer

 <p>LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois</p>	USER NAME =	DESIGNED - ESH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORINGS-4 STRUCTURE NO. 016-W999	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE =	DRAWN - RH	REVISED -			339	116 Y-1-R-1	COOK	122	97		
	PLOT DATE =	CHECKED - ADB	REVISED -			SHEET NO. 39 OF 39 SHEETS			CONTRACT NO. 60135			
	ILLINOIS FED. AID PROJECT											

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO.	
	BY	

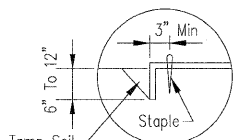


- NOTES:**
- On erosion control paper, check slots, in ditch channel shall be spaced so that one occurs within each 50' on slopes of more than 4% and less than 6%. On slopes of 6% or more, they shall be spaced so that one occurs within each 25'.
 - Staples are to be placed alternately, in columns approximately 2' apart and in rows approximately 3' apart. Approximately 175 staples are required per 4' x 225' roll of material and 125 staples are required per 4' x 150' roll of material.
 - Erosion control material shall be placed loosely over ground surface. Do not stretch.
 - All terminal ends and transverse laps shall be stapled at approximately 12" intervals.

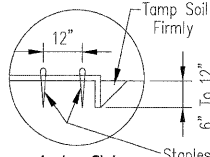


Terminal Fold
Jute Mesh Only

DETAIL 1

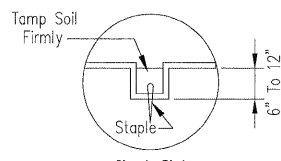


Terminal Fold
Excelsior Blanket
Erosion Control Paper



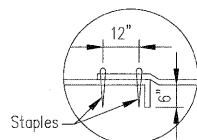
Anchor Slot
Jute Mesh
Excelsior Blanket
Erosion Control Paper

DETAIL 3



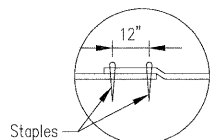
Check Slot
Erosion Control Paper

DETAIL 4

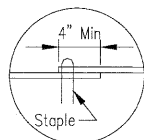


Junction Slot
Jute Mesh
Erosion Control Paper

DETAIL 2

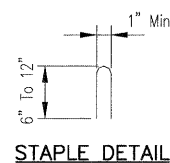


Junction Slot
Excelsior Blanket



Lap Joint
Jute Mesh
Excelsior Blanket Shall
Be Butted Together
Erosion Control Paper

DETAIL 5



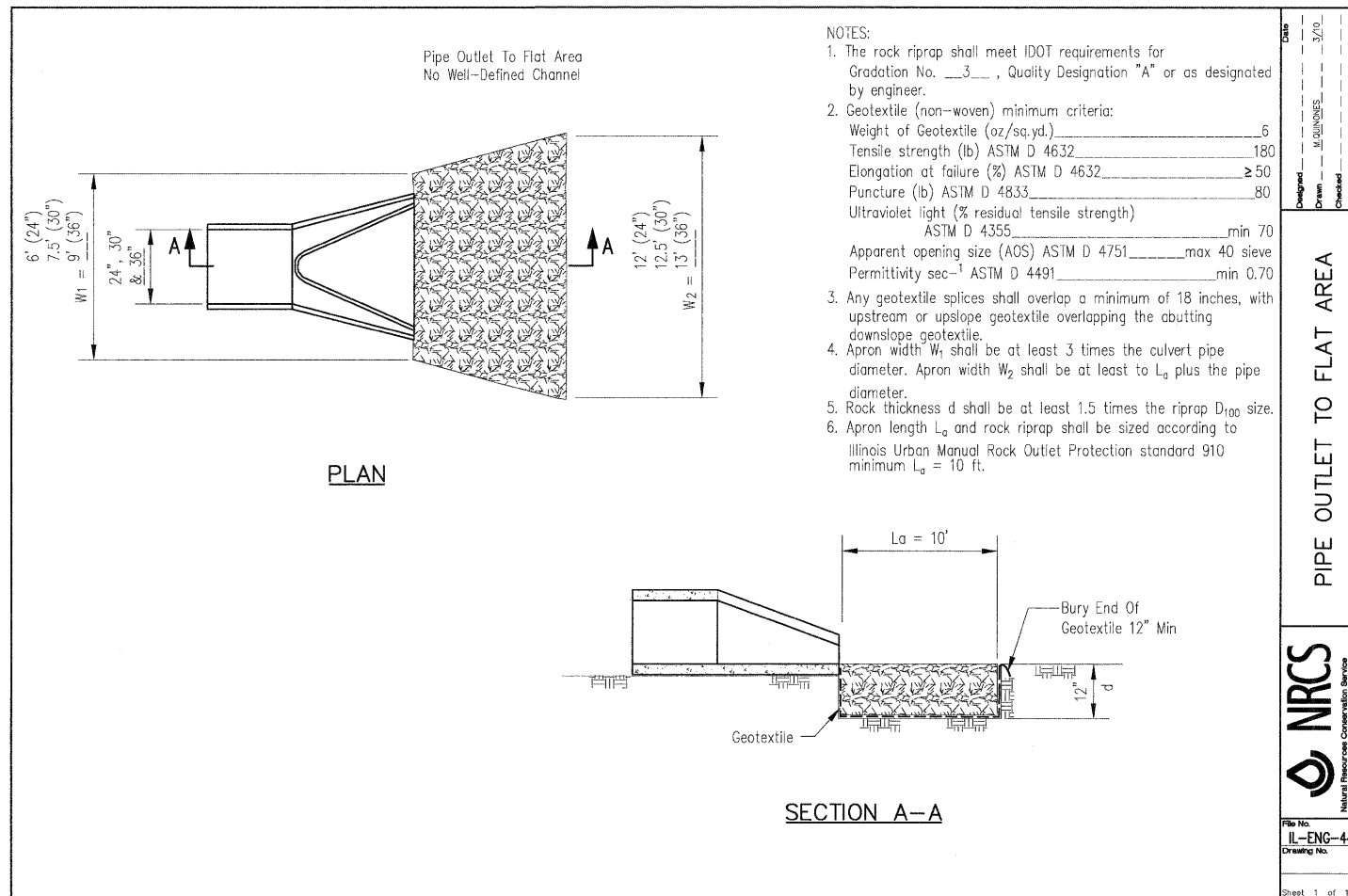
STAPLE DETAIL

Designed: M. GUNNINGS
Drawn: M. GUNNINGS
Checked: M. GUNNINGS
Approved: M. GUNNINGS
Date: 7/02

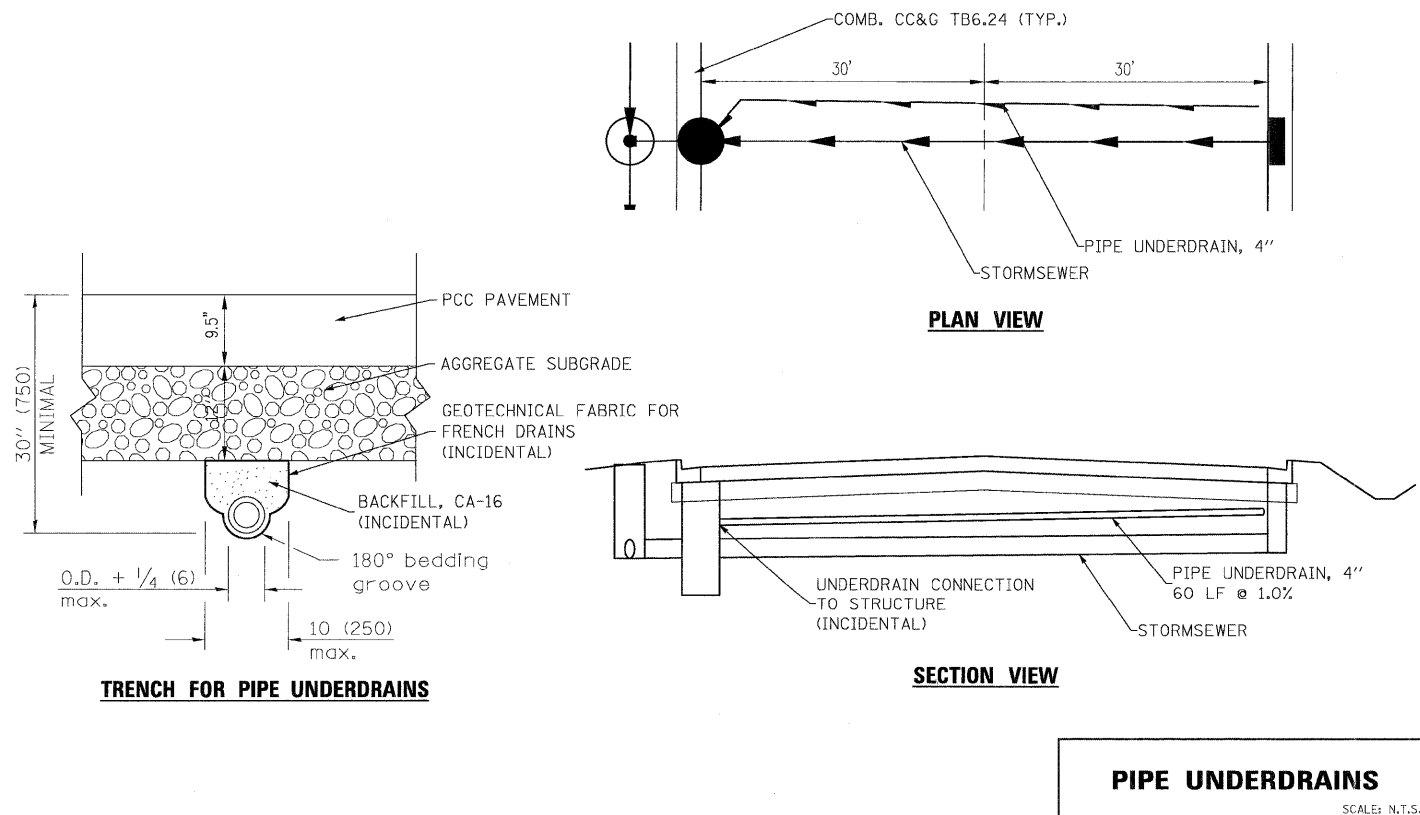
**EROSION BLANKET
INSTALLATION DETAILS**

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

File No. IL-ENG-61
Drawing No.
Sheet 1 of 1



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO.	
	BY	



FILE NAME = ...\\0160135-sht-details1.dgn



DESIGNED	NS	REVISED	-
DRAWN	RJD	REVISED	-
CHECKED	RJD	REVISED	-
DATE	JUNE 30, 2011	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

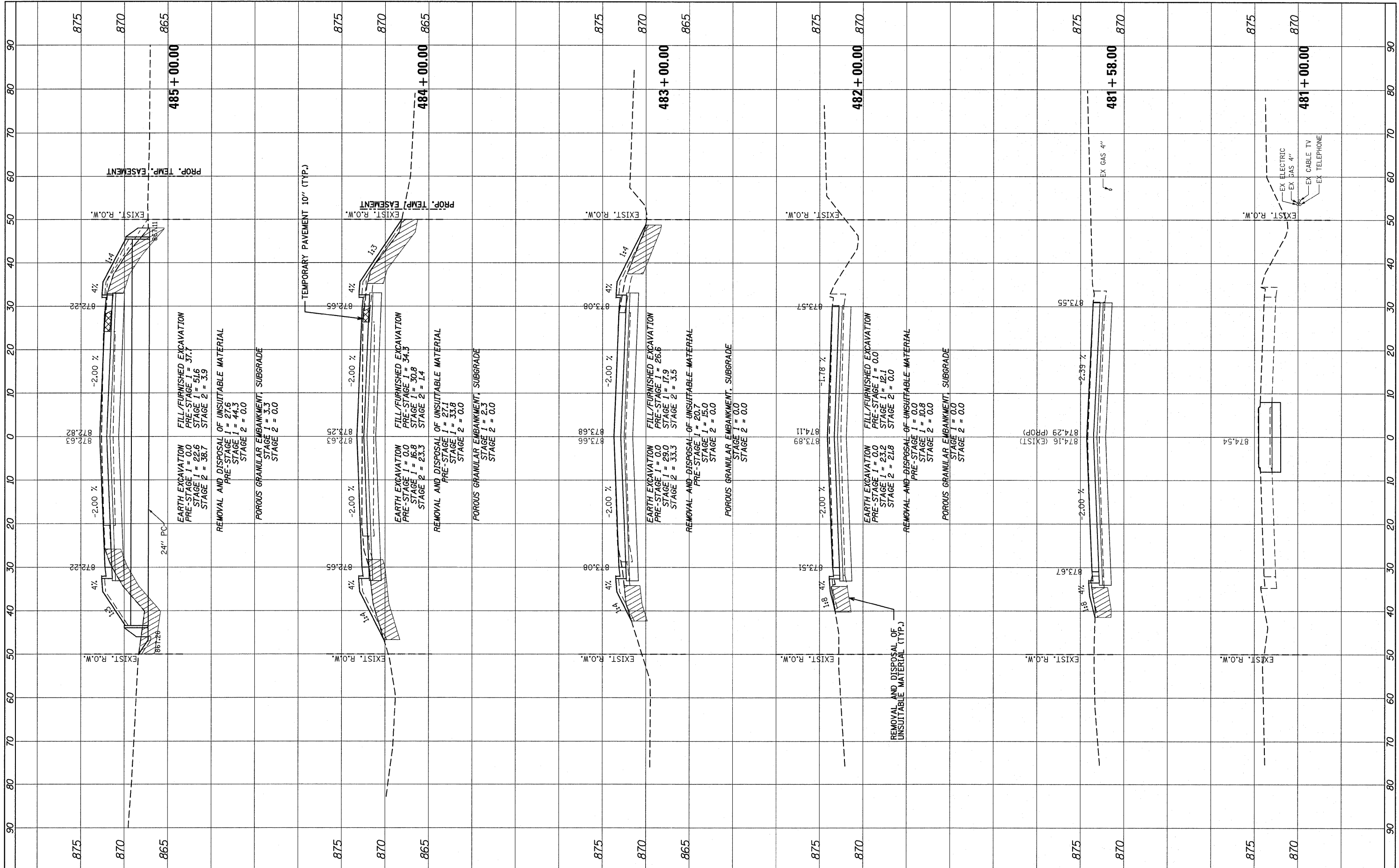
**IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
MISCELLANEOUS DETAILS**

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
339	116 Y-1-R-1	COOK	122	98
				CONTRACT NO. 60I35
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
AREAS CHECKED		
NO.		



FILE NAME = #PND03035-ehtr-xesht.dgn

USER NAME = #USER#
 PLOT SCALE = #SCALE#
 PLOT DATE = #DATE#

DESIGNED - ADW
 DRAWN - ADW
 CHECKED - RJD
 DATE - JUNE 30, 2011

REVISED - 10/21/2011 N.W.S.
 REVISED -
 REVISED -
 REVISED -

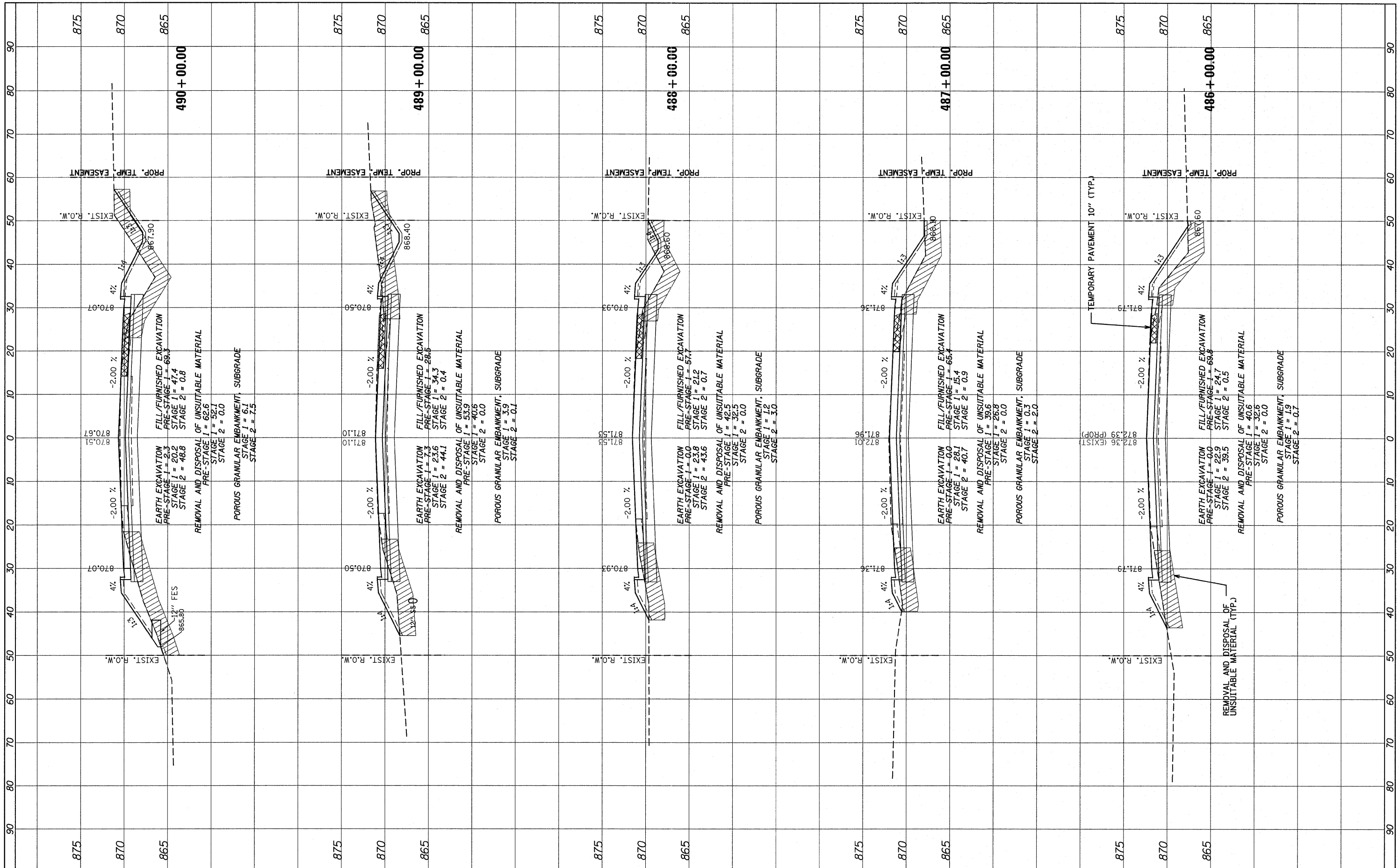
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD.
 CROSS SECTIONS
 SCALE: 1"=10'(H); 1"=5'(V) SHEET NO. 1 OF 13 SHEETS STA. 481+00.00 TO STA. 485+00.00

F.A.P. RTE. 339	SECTION 116 Y-1-R-1	COUNTY COOK	TOTAL SHEETS 122	SHEET NO. 99
CONTRACT NO. 60135			ILLINOIS FED. AID PROJECT	

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

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



FILE NAME = #PND0235-sht-xssht.dgn	USER NAME = #USER#	DESIGNED - ADW	REVISED - 10/21/2011 N.W.S.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL RTE 62 (ALGONQUIN RD.) FROM EASTING'S WAY TO PENNY RD. CROSS SECTIONS SCALE: 1"=10'(H); 1"=5'(V) SHEET NO. 2 OF 13 SHEETS STA. 486+00.00 TO STA. 490+00.00	F.A.P. RTE. 339	SECTION 116 Y-1-R-1	COUNTY COOK	TOTAL SHEETS 122	SHEET NO. 100
PLOT SCALE = #SCALE#	CHECKED - RJD	REVISED -	REVISED -		CONTRACT NO. 60135				
PLOT DATE = #DATE#	DATE - JUNE 30, 2011	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT				