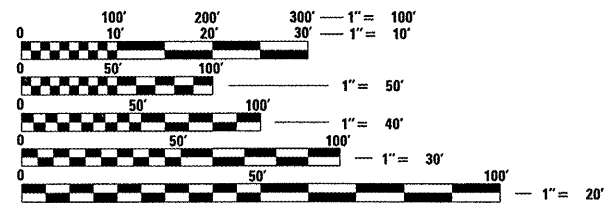


**INDEX OF SHEETS**

1	TITLE SHEET
2	GENERAL NOTES & SURVEY INFORMATION
3 - 4	SUMMARY OF QUANTITIES
5 - 6	SCHEDULE OF QUANTITIES
7 - 8	DETAILS AND TYPICAL SECTIONS
9	PLAN SHEET KEY
10 - 11	WABASH AVE. PLAN
12 - 14	WATERWAY NO. 1 PLAN
15 - 16	RAMP A PLAN
17 - 19	WATERWAY NO. 1 & I-72 PLAN
20 - 22	I-72 AND EAST ACCESS ROAD PLAN
23 - 26	SOUTH AND SOUTHEAST ACCESS ROAD PLAN
27	WABASH AVE. PROFILE
28	RAMP A PROFILE
29 - 30	WATERWAY NO. 1 PROFILE
31 - 32	WATERWAY NO. 1 & I-72 PROFILE
33 - 34	EAST ACCESS ROAD PROFILE
35	SOUTH ACCESS ROAD PROFILE
36 - 37	SOUTHEAST ACCESS ROAD PROFILE
38 - 39	RELOCATED SIGN DETAILS
40 - 41	ACCESS GATE DETAILS
42	SPECIAL DETAILS FIELD TILE REPLACEMENT
43 - 44	PAVED DITCH AND SLOPEWALL DETAILS
45 - 54	STORM WATER POLLUTION PREVENTION PLAN
55 - 56	TRAFFIC CONTROL PLAN
57 - 61	WABASH AVE. CULVERT
62 - 64	ASH GROVE ROAD CULVERT
65 - 68	STEEL TRENCHLESS PIPE INSTALLATION
69 - 71	WEIR /DAM DETAILS
72 - 74	DETENTION AREA GRADING PLAN
75 - 79	WABASH AVE. CROSS SECTIONS
80 - 84	WATERWAY NO. 1 CROSS SECTIONS
85 - 86	ASH GROVE ROAD CROSS SECTIONS
87 - 92	RAMP A CROSS SECTIONS
93 - 105	WATERWAY NO. 1 & I-72 CROSS SECTIONS
106	WATERWAY NO. 1, I-72 & E. ACCESS CROSS SECTION
107 - 119	EAST ACCESS ROAD CROSS SECTIONS
120 - 138	SOUTH ACCESS ROAD CROSS SECTIONS
139 - 147	SOUTHEAST ACCESS ROAD CROSS SECTIONS

**FOR HIGHWAY STANDARDS SEE SHEET NO. 2**



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.

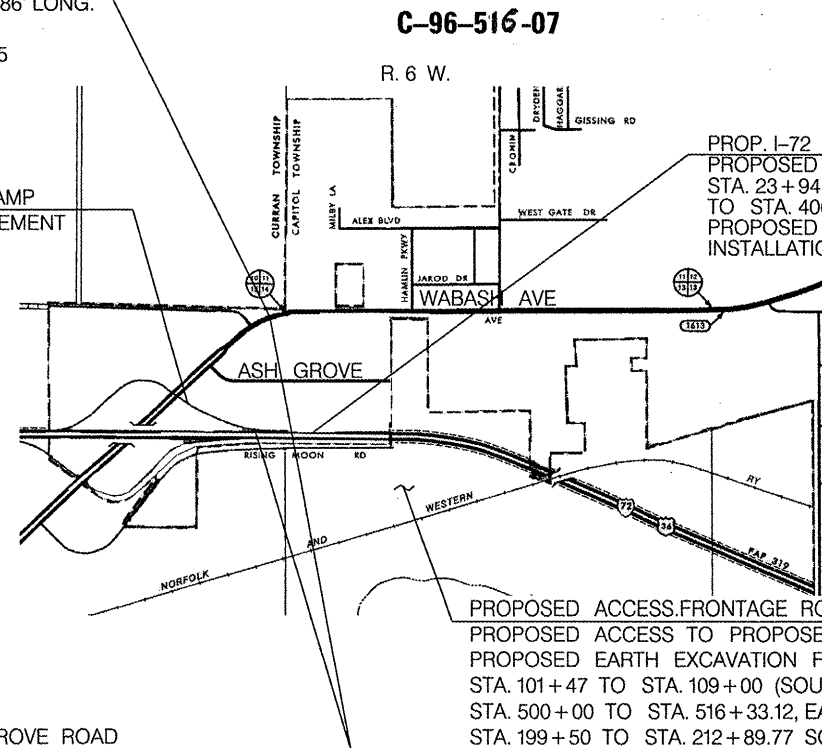
J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

**PROJECT ENGINEER - JOHN NEGANGARD 217-782-6990**  
**SQUAD LEADER - VINCE MADONIA 217-785-9046**  
**CONTRACT NO. 72A02**

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**PROPOSED**  
**HIGHWAY PLANS**  
**FAU ROUTE 8012 (WABASH AVE.)**  
**AND FAI ROUTE 72**  
**SECTION 21(I-3)**  
**PROJECT M-8012 (012)**  
**DRAINAGE IMPROVEMENT**  
**SANGAMON COUNTY**

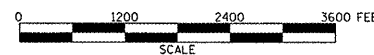
PROPOSED W. WABASH AVE.  
PROPOSED PRECAST CONCRETE  
BOX CULVERT 8' W X 6' H 186' LONG.  
PAVEMENT REPLACEMENT  
STA. 398+05 TO STA. 398+45

PROPOSED I-72 W.B. OFF RAMP  
(RAMP A) DRAINAGE IMPROVEMENT  
STA. 7+64 TO STA. 19+10



PROPOSED ASH GROVE ROAD  
PROPOSED PRECAST CONCRETE BOX CULVERT  
8' W X 6' H 100' LONG STA. 17+25 TO STA. 17+63  
& PROPOSED WATERWAY NO. 1 IMPROVEMENT  
BETWEEN WABASH AVE. AND I-72 STA. 10+80  
TO STA. 23+94.63

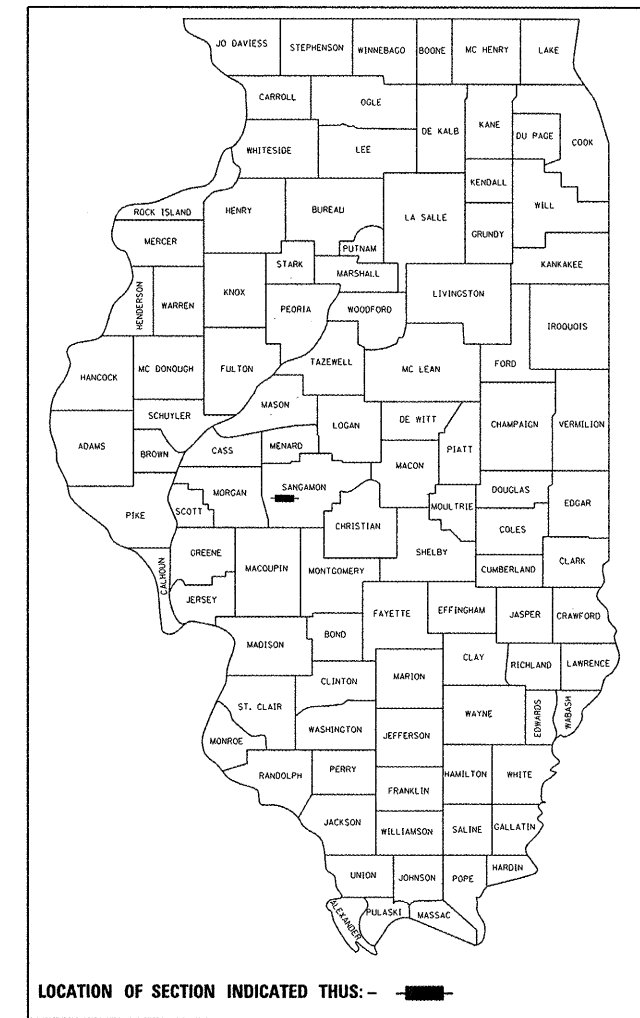
**LOCATION PLAN**



NET LENGTH OF PROJECT (W. WABASH AVENUE) - 40.00' = 0.008 MI.  
NET LENGTH OF PROJECT (ASH GROVE ROAD) - 38.00' = 0.007 MI.  
NET LENGTH OF PROJECT (RAMP A) = 1095.50' = 0.207 MI.  
NET LENGTH OF PROJECT (WATERWAY NO. 1) - 3012.12' = 0.570 MI.  
NET LENGTH OF PROJECT (SOUTH, SOUTHEAST & EAST ACCESS ROADS) - 3725.89' = 0.706 MI.  
GROSS LENGTH OF PROJECT - 7911.51' = 1.498 MI.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	1
		ILLINOIS	CONTRACT NO. 72A02	

D-96-523-04



ADT (I-72) = 16800 (2007) ADT (WABASH) = 12200 (2007)  
% SU = 16.0 (2007) % SU = 2.0 (2007)  
% MU = 8.0 (2007) % MU = 1.2 (2007)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
SUBMITTED June 1, 2009  
Ray C. Dush  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER  
June 26, 2009  
Charles J. Ingersoll  
ENGINEER OF DESIGN AND ENVIRONMENT  
June 26, 2009  
Christine M. Reed  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

MARK A. HENDERSON  
5513  
LICENSED STRUCTURAL ENGINEER  
STATE OF ILLINOIS  
Mark A. Henderson 5/11/09  
EXPIRES 11/30/10

CHRISTOPHER P. KELLER  
062-046508  
LICENSED PROFESSIONAL ENGINEER  
STATE OF ILLINOIS  
Christopher P. Keller 5/11/09  
EXPIRES 11/30/09

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

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

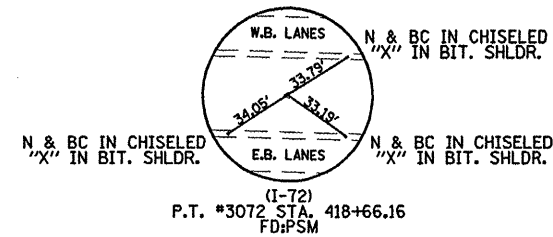
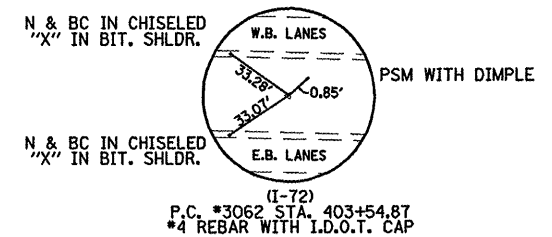
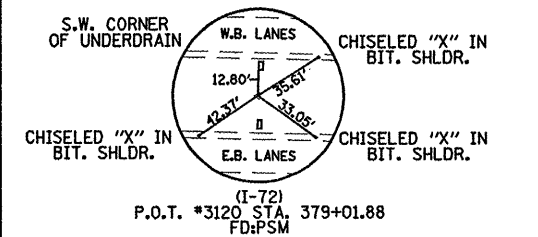
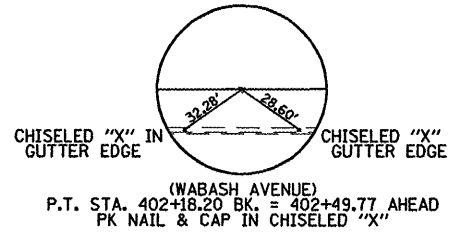
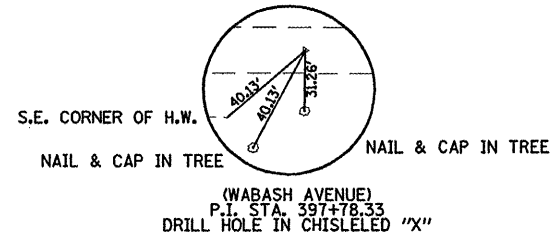
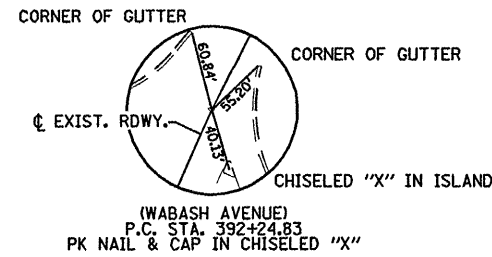
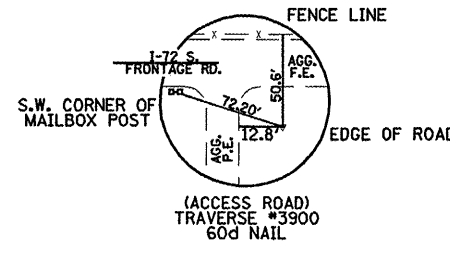
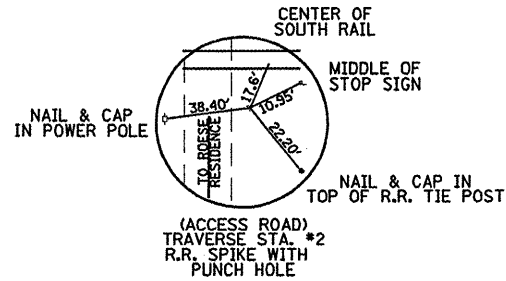
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442201-03	701011-02
542101-02	701101-02
542206-01	701106-02
542301-02	701201-03
542306-02	701301-03
602421-01	701311-03
604001-03	701801-04
604106-01	701901-01
606001-04	720006-02
606401-01	728001-01
665001-02	780001-02
666001-01	781001-03
701001-02	BLR 21-8

COMMITMENTS:

- 1.) TWO CALENDER DAYS ARE ALLOWED FOR WABASH AVENUE ROAD CLOSURE TO FACILITATE CULVERT INSTALLATION.
- 2.) FIVE CALENDER DAYS ARE ALLOWED FOR ASH GROVE ROAD CLOSURE TO FACILITATE CULVERT INSTALLATION.
- 3.) THE WABASH AVENUE AND ASH GROVE ROAD CLOSURES ARE NOT TO OCCUR CONCURRENTLY.
- 4.) RESIDENT ENGINEER IS TO CONTACT IDOT D6 STUDIES AND PLANS TO INFORM OF ANY PLAN CHANGES.
- 5.) THERE IS AN NPDES STORM WATER POLLUTION PREVENTION PLAN WITH THIS PROJECT.
- 6.) THERE IS A HAUL ROAD LETTER OF UNDERSTANDING.

GENERAL NOTES

- 1.) THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- 2.) EXCEPT AS NOTED IN THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- 3.) WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- 4.) SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION. AREAS TO BE SEEDED SHALL BE DETERMINED BY THE ENGINEER AND SEEDED AS SOON AS POSSIBLE.
- 5.) ALL SAW CUTS, NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS, SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED. THE MINIMUM SAW CUT DEPTH IN THE PAVEMENT SHALL BE 1/2" UNLESS UNLESS OTHERWISE SPECIFIED IN A DETAIL SHOWN IN THE PLANS.
- 6.) UNLESS DIRECTED BY THE ENGINEER, PAVEMENT MARKING LINES SHALL NOT BE LAID DIRECTLY OVER A LONGITUDINAL CRACK OR JOINT NOR OVER A TAR OR ASPHALT PAINTED LINE. THE EDGE OF A CENTERLINE OR LANE LINE SHALL BE OFFSET A MINIMUM DISTANCE OF 2" FROM A LONGITUDINAL CRACK OR JOINT. EDGE LINES SHALL BE APPROXIMATELY 2" FROM THE EDGE LINE OF PAVEMENT. SEE SECTION 780 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
- 7.) ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE COST PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 8.) ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- 9.) IN ADDITION TO THE FIELD SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- 10.) THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT, AND NO COMPENSATION WILL BE ALLOWED.
- 11.) THE LOCATION OF ALL UTILITIES ARE BASED ON INFORMATION PROVIDED BY OTHERS AND IS INTENDED TO BE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS CONSTRUCTION ACTIVITIES WITH THE VARIOUS UTILITY OWNERS. ALL POTENTIAL CONFLICTS SHALL BE INVESTIGATED AND REMEDIAL ACTION TAKEN PRIOR TO INTERRUPTION OF THE CONTRACTOR'S PROGRESS.
- 12.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED. ANY DAMAGE TO UNDERGROUND FACILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE, INCLUDING TEMPORARY REPAIRS WHICH MAY BE REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS.
- 13.) ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON U.S.G.S. MEAN SEA LEVEL DATUM. ALL STATION AND OFFSET REFERENCES ARE TO THE ROADWAY CENTERLINE UNLESS OTHERWISE NOTED. THE STATE PLANE COORDINATE SYSTEM HAS BEEN USED FOR THE HORIZONTAL CONTROL.
- 14.) THE DISTRICT BUREAU OF OPERATIONS SHALL BE NOTIFIED AT LEAST 14 DAYS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS (PH: 217-782-7314)
- 15.) THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE AND EROSION PROTECTION DURING THE LENGTH OF THE PROJECT.
- 16.) BEFORE ORDERING PIPE CULVERTS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR THE EXACT LENGTHS.



BENCHMARKS

- BENCHMARK #68 - CHISELED "□" IN EAST END OF SOUTH CONCRETE HEADWALL UNDER OLD OLD CONCRETE PAVEMENT IN TRIANGLE FORMED BY WABASH AVE. AND BUNKER HILL ROAD & OLD CONCRETE PAVEMENT AT STA. 396+74.8, 113.8' LT. ELEV. 613.548
- BENCHMARK #99 - CHISELED "□" IN TOP OF L.P. BASE AT S.E. CORNER OF 2ND POLE ON NORTH EDGE OF EXIT #91 AT STA. 389+17.4, 106' LT. (I-72) ELEV. 611.083
- BENCHMARK #98 - CHISELED "□" IN CENTER OF 4' X 8' CONCRETE BOX ON NORTH SIDE OF I-72 JUST EAST OF EXIT #91 TO WABASH AVENUE AT STA. 405+36.4, 89.4' LT. (I-72) ELEV. 611.013
- BENCHMARK #100 - CHISELED "□" IN CENTER OF SOUTH CONCRETE HEADWALL OF 24" CULVERT UNDER WESTBOUND OFFRAMP ±455' N.E. ALONG WABASH AVE. FROM (I-72) ELEV. 615.588
- BENCHMARK #TA-9 - CHISELED "□" IN NORTH EDGE OF FUTURE SIGNAL FOUNDATION AT S.W. QUAD WABASH AVE. & ASH GROVE ROAD ELEV. 616.623
- BENCHMARK #TA-10 - CHISELED "□" IN S.E. CORNER LIGHT POLE FOUNDATION, WEST SIDE OF WABASH AVE. AND ACROSS ROAD FROM CINGULAR BUILDING, NORTH OF NORTH I-72 RAMPS ELEV. 615.206

HOT MIX ASPHALT CRITERIA

LOCATION(S):	WABASH AVE. & ASH GROVE ROAD
MIXTURE USE(S) :	CLASS D PATCH
MIXTURE USE(S) :	PG 64-22
RAP % :	N/A
(MAX.) DESIGN AIR VOIDS :	4% @ N70
MIXTURE COMPOSITION :	IL 19.0
FRICITION AGGREGATE :	N/A

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE THE PLAN QUANTITIES:

HOT MIX ASPHALT MATERIALS (PRIME COAT)	0.00038 TON/SQ. YD. (ON PAVEMENT)
HOT MIX ASPHALT MATERIALS (PRIME COAT)	0.001425 TON/SQ.YD. (ON AGG)
HOT MIX ASPHALT SURFACE / BINDER	0.056 TON/SQ. YD. PER 1"
AGGREGATE MATERIAL	2.05 TON/CU. YD.
RIPRAP	1.5 TON/CU. YD.
MULCH METHOD	2.0 TON/ACRE
AGRICULTURE GROUND LIMESTONE	2.0 TON/ACRE
NITROGEN FERTILIZER NUTRIENT	90 LBS./ACRE
PHOSPHOROUS FERTILIZER NUTRIENT	90 LBS./ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS./ACRE
AGGREGATE PRIME COAT	0.002 TON/SQ. YD.

FILE NAME =	USER NAME = laughlrrr1	DESIGNED -	REVISED -
c:\pwwork\p\idot\LAUGHLIN\1401435070672402-sht-gennote.dgn		DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / IN.		CHECKED -	REVISED -
PLOT DATE = Jun-02-2009 07:52:00AM		DATE -	REVISED -

**Allen Henderson & Associates, Inc.**  
Civil and Structural Engineers Springfield, IL.  
62703 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

GENERAL NOTES & SURVEY INFORMATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(1-3)	SANGAMON	147	2
CONTRACT NO. T2A02				
ILLINOIS FED. AID PROJECT				
SCALE:	SHEET NO. 2 OF 147 SHEETS	STA.	TO STA.	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	ROADWAY F.A.L. 8012 80% FEDERAL 20% STATE		STRUCTURE 80% FEDERAL 20% STATE	
				CONSTRUCTION TYPE CODE		CONSTRUCTION TYPE CODE	
				I000-2A	X028-2A	I000-2A	X028-2A
20200100	EARTH EXCAVATION	CU. YD.	117098	117098			
20800150	TRENCH BACKFILL	CU. YD.	10	10			
21301072	EXPLORATORY TRENCH 72" DEPTH	FOOT	500	500			
25000200	SEEDING, CLASS 2	ACRE	10.30	10.30			
25000350	SEEDING CLASS 7	ACRE	10.30	10.30			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	928	928			
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	928	928			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	928	928			
25000700	AGRICULTURAL GROUND LIMESTONE	TON	20.60	20.60			
25100105	MULCH, METHOD 1	ACRE	10.30	10.30			
25100115	MULCH, METHOD 2	ACRE	10.30	10.30			
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU. YD.	50	50			
28000400	PERIMETER EROSION BARRIER	FOOT	475	475			
28001000	AGGREGATE(EROSION CONTROL)	TON	230	230			
28100805	STONE DUMPED RIPRAP, CLASS A3	TON	5100	4659	441		
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	902	869	33		
28200200	FILTER FABRIC	SQ. YD.	5525	5251	274		
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	689	689			
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ. YD.	384	384			
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ. FT.	3652	3652			
44000100	PAVEMENT REMOVAL	SQ. YD.	517	517			
44000600	SIDEWALK REMOVAL	SQ. FT.	3672	3672			
44001700	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	160	160			
44004000	PAVED DITCH REMOVAL	FOOT	160	160			
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ. YD.	50	50			
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ. YD.	30	30			
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ. YD.	114	114			
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SQ. YD.	200	200			
50105220	PIPE CULVERT REMOVAL	FOOT	270	270			
50200100	STRUCTURE EXCAVATION	CU. YD.	310		310		
50300225	CONCRETE STRUCTURES	CU. YD.	75.8		75.8		
50800105	REINFORCEMENT BARS	POUND	9735	260	9475		

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	ROADWAY F.A.L. 8012 80% FEDERAL 20% STATE		STRUCTURE 80% FEDERAL 20% STATE	
				CONSTRUCTION TYPE CODE		CONSTRUCTION TYPE CODE	
				I000-2A	X028-2A	I000-2A	X028-2A
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3195			3195	
50901760	PIPE HANDRAIL	FOOT	184			184	
54001001	BOX CULVERT END SECTION, CULVERT NO. 1	EACH	2			2	
54001002	BOX CULVERT END SECTION, CULVERT NO. 2	EACH	2			2	
54010806	PRECAST CONCRETE BOX CULVERT 8' X 6'	FOOT	286			286	
54200445	PIPE CULVERTS, TYPE 1 RCCP 30"	FOOT	50	50			
54201273	PIPE CULVERTS, TYPE 2 RCCP 18"	FOOT	40	40			
54201279	PIPE CULVERTS, TYPE 2 RCCP 24"	FOOT	90	90			
54201291	PIPE CULVERTS, TYPE 2 RCCP 36"	FOOT	40	40			
54202155	PIPE CULVERTS, TYPE 3 RCCP 60"	FOOT	570	570			
54207177	PIPE CULVERTS, TYPE 1, REINFORCED CONCRETE - ELLIPTICAL, EQUIVALENT ROUND-SIZE 42"	FOOT	50	50			
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1			
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2	2			
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2	2			
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	2	2			
54214527	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 42"	EACH	2	2			
59100100	GEOCOMPOSITE WALL DRAIN	SQ. YD.	1.1			1.1	
60100925	PIPE DRAINS 8"	FOOT	100	100			
60100935	PIPE DRAINS 10"	FOOT	100	100			
60100945	PIPE DRAINS 12"	FOOT	100	100			
61101009	STORM SEWERS PROTECTED, CLASS A, 8"	FOOT	100	100			
61101011	STORM SEWERS PROTECTED, CLASS A, 10"	FOOT	100	100			
61101013	STORM SEWERS PROTECTED, CLASS A, 12"	FOOT	100	100			
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	4	4			
61100605	MISCELLANEOUS CONCRETE	CU. YD.	10.0	10.0			
66500105	WOVEN WIRE FENCE, 4"	FOOT	5250	5250			
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	16	16			
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL. MO.	12	12			
67100100	MOBILIZATION	L. SUM	1	0.8	0.2		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L. SUM	1	1			
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L. SUM	1	1			

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	ROADWAY F.A.U. 8012 80% FEDERAL 20% STATE		STRUCTURE 80% FEDERAL 20% STATE	
				CONSTRUCTION TYPE CODE		CONSTRUCTION TYPE CODE	
				1000-2A		X028-2A	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L. SUM	1	1			
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL. DA	10	10			
70106800	CHANGEABLE MESSAGE SIGN	CAL. MO	6	6			
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	180	180			
* 72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	1	1			
* 72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1	1			
* 72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	2800	2800			
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	160	160			
73400100	CONCRETE FOUNDATIONS	CU. YD	4.5	4.5			
73700200	REMOVE CONCRETE FOUNDATION - GROUND MOUNT	EACH	2	2			
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	180	180			
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2	2			
XX004094	CONCRETE SLOPEWALL	SQ. FT.	1785	1785			
X0323665	RIPRAP SLURRY	SQ. YD.	82	82			
X0323716	ACCESS GATE, DOUBLE, 30 FOOT	EACH	1	1			
X0324118	GRANULAR CULVERT BACKFILL	CU. YD.	716			716	
X0325129	TREE REMOVAL	L. SUM	1	1			
X0325368	TRENCHLESS PIPE INSTALLATION, 60"	FOOT	224	224			
X7013015	TRAFFIC CONTROL FOR ROAD CLOSURE	L. SUM	1	1			
Z0005000	BITUMINOUS MIXTURE FOR PATCHING POTHOLES (COLD MIX)	TON	20	20			
Z0013798	CONSTRUCTION LAYOUT	L. SUM	1	0.8		0.2	
Z0022800	FENCE REMOVAL	FOOT	2452	2452			
Z0023600	FILLING EXISTING CULVERTS	EACH	2	2			
Z0041500	PLUG EXISTING CULVERTS	EACH	1	1			
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L. SUM	1	1			
* Z0054517	ROCKFILL - FOUNDATION	TON	92			92	
Z0056100	SAND DRAINAGE BLANKET	CU. YD.	64			64	
X0326651	MANHOLES, TYPE A, SPECIAL, 9' DIAMETER, WITH MEDIAN INLET (604106)	EACH	2	2			
XX004829	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12", SPECIAL	EACH	1	1			
X0326652	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24", SPECIAL	EACH	1	1			
X0326653	PAVED DITCH (SPECIAL)	SQ. YD.	1145	1145			

\* SPECIALTY ITEMS

**SCHEDULE  
ESTIMATED EROSION CONTROL ITEMS**

LOCATION	PERIMETER EROSION BARRIER (FOOT)	SEEDING CLASS 7 & MULCH METHOD 1 (ACRE)	AGG. EROSION CONTROL (TON)	EARTH EXCAVATION FOR EROSION CONTROL (CU. YD.)
THROUGHOUT PROJECT	475	10.30	230	50
<b>TOTAL</b>	475	10.30	230	50

**SCHEDULE  
EARTHWORK**

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
WABASH AVENUE (STA. 397+25 TO STA. 403+93)	1369	1027	1083	-56
WATERWAY NO. 1 (STA. 10+80 TO STA. 23+95)	7217	5413	796	+4617
RAMP A (STA. 6+64 TO STA. 19+10)	1019	764	2	+762
I-72 (STA. 389+27 TO STA. 406+25)	7433	5575	493	+5082
EAST ACCESS ROAD (STA. 500+00 TO STA. 516+33)	28385	21289	997	+20292
SOUTH ACCESS ROAD (STA. 101+47 TO STA. 109+00)	56304	42228	9886	+32342
S.E. ACCESS ROAD (STA. 199+50 TO STA. 212+90)	15371	11528	6099	+5429
<b>TOTAL</b>	117098	87824	19356	+68468

EXCESS EARTH EXCAVATION SHALL BE DISPOSED OF ACCORDING TO ARTICLE 202.03 AND WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST PER CUBIC YARD FOR EARTH EXCAVATION.

**SCHEDULE  
TEMPORARY PAVEMENT MARKING - LINE 5" &  
PAINT PAVEMENT MARKING - LINE 5"**

LOCATION	TEMP. PVMT. MARKING LINE - 5"			PAINT PVMT. MARKING LINE - 5"		
	WHITE (FT.)	YELLOW SKIP DASH 30' SPACING (FT.)	YELLOW NO PASSING (FT.)	WHITE (FT.)	YELLOW SKIP DASH 30' SPACING (FT.)	YELLOW NO PASSING (FT.)
STA. 398+05 TO STA. 398+45 (WABASH AVE.)	80		80	80		80
STA. 17+24.75 TO STA. 17+62.75		20			20	
<b>SUB-TOTAL</b>	80	20	80	80	20	80
<b>TOTAL</b>		180			180	

**SCHEDULE  
PERMANENT SEEDING**

LOCATION	SEEDING CLASS 2 (ACRE)	NITROGEN FERT. NUT. (POUND)	PHOSPHORUS FERT. NUT. (POUND)	POTASSIUM FERT. NUT. (POUND)	MULCH METHOD 2 (ACRE)	AGRICULTURAL GROUND LIMESTONE (TON)
STA. 397+25 TO STA. 403+93 LT. & RT. (WABASH)	1.20	108	108	108	1.20	2.40
STA. 0+68 TO STA. 13+17 (WATERWAY NO. 1)	1.90	171	171	171	1.90	3.80
STA. 6+64 TO STA. 18+50 (RAMP A)	1.70	153	153	153	1.70	3.40
STA. 388+73.8 TO STA. 405+35 (I-72 NORTH)	1.25	113	113	113	1.25	2.50
STA. 403+00 TO STA. 409+00 (I-72 SOUTH)	0.55	50	50	50	0.55	1.10
DETENTION AREA	3.70	333	333	333	3.70	7.40
<b>TOTAL</b>	10.30	928	928	928	10.30	20.60

**SCHEDULE  
PIPE CULVERTS RCCP & PRECAST REINFORCED  
CONCRETE FLARED END SECTIONS**

LOCATION	RCCP TYPE 1 30" (FOOT)	RCCP TYPE 2 18" (FOOT)	RCCP TYPE 2 24" (FOOT)	RCCP TYPE 2 36" (FOOT)	RCCP TYPE 3 60" (FOOT)	PRC END SECTIONS 18" (EACH)	PRC END SECTIONS 24" (EACH)	PRC END SECTIONS 30" (EACH)	PRC END SECTIONS 36" (EACH)
	STA. 398+01 TO STA. 398+21 48.5' RT. (WABASH AVE.)			20				1	
STA. 398+29 TO STA. 398+99 48.5' RT. (WABASH AVE.)			70				1		
STA. 398+01 TO STA. 398+21 77.5' LT. (WABASH AVE.)				20					1
STA. 398+29 TO STA. 398+49 77.5' LT. (WABASH AVE.)				20					1
STA. 405+70 TO STA. 406+20 109' LT. (I-72)	50							2	
STA. 504+96 TO STA. 505+27 LT. (E. ACCESS ROAD)		40				1			
STA. 403+11 TO STA. 407+74 LT. (I-72)					450				
STA. 407+74 TO STA. 504+93 RT. (E. ACCESS ROAD)					120				
<b>TOTAL</b>	50	40	90	40	570	1	2	2	2

**SCHEDULE  
FURNISHING AND ERECTING RIGHT OF WAY MARKERS**

LOCATION	QUANTITY (EACH)
STA. 398+09.96 65' RT. (WABASH AVE.)	1
STA. 398+11.76 60' RT. (WABASH AVE.)	1
STA. 402+49.77 65' RT. (WABASH AVE.)	1
STA. 403+57.61 75.61' RT. (WABASH AVE.)	1
STA. 388+64.63 200' LT. (I-72)	1
STA. 389+69.61 192.98' LT. (I-72)	1
STA. 394+63.40 160' LT. (I-72)	1
STA. 402+87.47 160' LT. (I-72)	1
STA. 402+87.66 129.69' LT. (I-72)	1
STA. 403+09.80 181.33' RT. (I-72)	1
STA. 405+15.48 169.98' RT. (I-72)	1
STA. 406+02.25 160.05' RT. (I-72)	1
STA. 406+02.64 893.20' RT. (I-72)	1
STA. 406+15.06 1027.07' RT. (I-72)	1
STA. 407+09.62 169.33' RT. (I-72)	1
STA. 407+92.80 779.38' RT. (I-72)	1
<b>TOTAL</b>	16

**SCHEDULE  
MANHOLES, TYPE A, SPECIAL, 9' DIAMETER, WITH MEDIAN INLET**

LOCATION	QUANTITY (EACH)
STA. 403+11 100' RT. (I-72)	1
STA. 504+38.18 32.47 LT.	1
<b>TOTAL</b>	2

**SCHEDULE  
TREE REMOVAL**

LOCATION	ESTIMATED QUANTITY (ACRE)
STA. 102+53 11' LT. TO STA. 107+60 9' RT (S. ACCESS ROAD)	0.1
STA. 200+50 25' RT. TO STA. 207+75 25' RT (S.E. ACCESS ROAD)	0.3
<b>TOTAL</b>	0.4

\* PAY FOR TREE REMOVAL AS LUMP SUM

**SCHEDULE  
PAVED DITCH (SPECIAL)**

LOCATION	QUANTITY (SQ. YD.)
STA. 501+75 TO STA. 506+00 LT.	1145
<b>TOTAL</b>	1145

**SCHEDULE  
TRENCHLESS PIPE INSTALLATION**

LOCATION	QUANTITY (FOOT)
STA. 402+34.3 115.6' LT. TO STA. 403+11.4 100' RT. (I-72)	224
<b>TOTAL</b>	224

**SCHEDULE  
TELESCOPING STEEL SIGN SUPPORTS**

LOCATION	QUANTITY (FOOT)
STA. 504+55 TO STA. 505+35 11' LT.	160
<b>TOTAL</b>	160

**SCHEDULE  
RAISED REFLECTIVE PAVEMENT MARKER**

LOCATION	QUANTITY (EACH)
STA. 398+25 C - LT. & RT.	2
<b>TOTAL</b>	2

**SCHEDULE  
RIPRAP SLURRY**

LOCATION	QUANTITY (SQ. YD.)
STA. 402+20 TO STA. 402+50	82
<b>TOTAL</b>	82

**SCHEDULE  
PIPE CULVERT REMOVAL**

LOCATION	QUANTITY (FOOT)
STA. 38+46 TO STA. 39+86 (ACCESS ROAD) - 12" x 140' PLASTIC	140
STA. 405+29 (ACCESS ROAD) - 30" x 22' PLASTIC	22
STA. 405+34 (ACCESS ROAD) - 30" x 22' PLASTIC	22
STA. 405+39 (ACCESS ROAD) - 30" x 22' PLASTIC	22
STA. 399+95 (WABASH AVE.) - 30" x 32' C.M.P.	32
STA. 399+99 (WABASH AVE.) - 30" x 32' C.M.P.	32
<b>TOTAL</b>	270

**SCHEDULE  
ESTIMATED QUANTITIES FOR RISING MOON ROAD**

LOCATION	BITUMINOUS MIXTURE FOR PATCHING POT HOLES (COLD MIX) (TON)	CLASS D PATCHES, TYPE II, 10" (SQ. YD.)	CLASS D PATCHES, TYPE III, 10" (SQ. YD.)
RISING MOON ROAD	20	50	30
<b>TOTAL</b>	20	50	30

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**Allen Henderson & Associates, Inc.**  
Civil and Structural Engineers Springfield, IL  
62703 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

**SCHEDULE OF QUANTITIES**

SCALE: NONE SHEET NO. 5 OF 147 SHEETS STA. TO STA.

F.A.U. NO. 8012 SECTION 21(1-3) COUNTY SANGAMON TOTAL SHEETS 147 SHEET NO. 5

CONTRACT NO. 72A02 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

**SCHEDULE  
STONE DUMPED RIPRAP & FILTER FABRIC**

LOCATION	STONE DUMPED RIPRAP CLASS A3 (TON)	STONE DUMPED RIPRAP CLASS A4 (TON)	FILTER FABRIC (SQ. YD.)
WABASH AVE. - ( STA. 398+25 (N. END ONLY)		33	49
WATERWAY NO. 1 (STA. 10+80 TO STA. 23+95)	1618	632	2229
I-72 (STA. 387+00 TO STA. 406+25)	3041	90	3106
RAMP A BOX CULVERTS		60	50
SLOPEWALL AREA		87	
WEIR (DOWNSTREAM SIDE) & S.E. ACCESS ROAD	441		91
<b>TOTAL</b>	<b>5100</b>	<b>902</b>	<b>5525</b>

**SCHEDULE  
CONCRETE STRUCTURES, FOUNDATIONS & REINFORCEMENT BARS**

LOCATION	CONCRETE STRUCTURES (CU. YD.)	CONCRETE FOUNDATIONS (CU. YD.)	REINFORCEMENT BARS (POUND)	REINFORCEMENT BARS (EPOXY COATED) (POUND)
I-72 - CONCRETE DROP BOX	10.7		1550	
WEIR	65.1		7925	3195
SIGN CONCRETE FOUNDATIONS STA. 395+05 LT.		4.5	260	
<b>TOTAL</b>	<b>75.8</b>	<b>4.5</b>	<b>9735</b>	<b>3195</b>

**SCHEDULE  
AGGREGATE SURFACE COURSE, TYPE B**

LOCATION	QUANTITY (TON)
STA. 500+00 TO STA. 506+45 (E. ACCESS ROAD)	325
STA. 101+47 TO STA. 107+80 (S. ACCESS ROAD)	358
STA. 398+05 TO STA. 398+45 (WABASH AVE.)	6
<b>TOTAL</b>	<b>689</b>

**SCHEDULE  
PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8"**

LOCATION	QUANTITY (SQ. YD.)
STA. 17+83 LT. & RT. (ASH GROVE)	78
STA. 504+55 TO STA. 505+35 (E. ACCESS ROAD)	214
F.E. STA. 398+70 RT. (WABASH AVE.)	92
<b>TOTAL</b>	<b>384</b>

**SCHEDULE  
PORTLAND CEMENT CONCRETE SIDEWALK, 4"**

LOCATION	QUANTITY (SQ. FT.)
STA. 397+95 TO STA. 403+93 RT. (WABASH AVE.)	3092
STA. 17+25 TO STA. 17+95 LT. & RT. (ASH GROVE ROAD)	560
<b>TOTAL</b>	<b>3652</b>

**SCHEDULE  
PAVED DITCH REMOVAL**

LOCATION	QUANTITY (FOOT)
STA. 387+87 TO STA. 389+47 167' LT. (I-72)	160
<b>TOTAL</b>	<b>160</b>

**SCHEDULE  
PAVEMENT REMOVAL**

LOCATION	QUANTITY (SQ. YD.)
STA. 397+30 TO STA. 398+44 (OLD BUNKER HILL RD.)	243
STA. 398+05 TO STA. 398+45 (WABASH AVE.)	160
STA. 17+25 TO STA. 17+63 (ASH GROVE DR.)	114
<b>TOTAL</b>	<b>517</b>

**SCHEDULE  
SIDEWALK REMOVAL**

LOCATION	QUANTITY (SQ. FT.)
STA. 397+95 TO STA. 403+93.3 RT. (WABASH AVE.)	3112
STA. 17+25 TO STA. 17+95 LT. & RT. (ASH GROVE DR.)	560
<b>TOTAL</b>	<b>3672</b>

**SCHEDULE  
REMOVE SIGN PANEL ASSEMBLY - TYPE B & RELOCATE SIGN PANEL ASSEMBLY - TYPE B**

LOCATION	QUANTITY (EACH)
STA. 395+00 102' LT. TO STA. 395+00 106' LT. (I-72)	1
<b>TOTAL</b>	<b>1</b>

**SCHEDULE  
CLASS D PATCHES, TYPE IV, 14"**

LOCATION	QUANTITY (SQ. YD.)
STA. 398+05 TO STA. 398+45 (WABASH AVE.)	200
<b>TOTAL</b>	<b>200</b>

**SCHEDULE  
CLASS D PATCHES, TYPE IV, 10"**

LOCATION	QUANTITY (SQ. YD.)
STA. 17+25 TO STA. 17+63 (ASH GROVE DR.)	114
<b>TOTAL</b>	<b>114</b>

**SCHEDULE  
FENCE REMOVAL**

LOCATION	QUANTITY (FOOT)
STA. 387+25 TO STA. 402+87 LT. (I-72)	1562
STA. 500+18 13' LT. TO STA. 509+00 15' LT. (E. ACCESS ROAD)	890
<b>TOTAL</b>	<b>2452</b>

**SCHEDULE  
FILLING EXISTING CULVERTS**

LOCATION	QUANTITY (EACH)
Ø STA. 399+95, 24" x 82" R.C.C.P./PLASTIC (WABASH AVE.)	2
<b>TOTAL</b>	<b>2</b>

**SCHEDULE  
PLUG EXISTING CULVERTS**

LOCATION	QUANTITY (EACH)
STA. 18+85 ELLIPTICAL 5' X 40' (ASH GROVE ROAD)	1
<b>TOTAL</b>	<b>1</b>

**SCHEDULE  
\*ESTIMATED QUANTITIES FOR FIELD TILES**

LOCATION	EXPLORATORY TRENCH 72" (FOOT)	MISC. CONCRETE (CU. YD.)	FIELD TILE JUNCTION VAULTS, 2' DIA. (EACH)	STORM SEWER PROTECTED, CLASS A 8" (FOOT)	STORM SEWER PROTECTED, CLASS A 10" (FOOT)	STORM SEWER PROTECTED, CLASS A 12" (FOOT)	PIPE DRAINS 8" (FOOT)	PIPE DRAINS 10" (FOOT)	PIPE DRAINS 12" (FOOT)	TRENCH BACKFILL (CU. YD.)
ALL FIELD TILE LOCATIONS	500	10	4	100	100	100	100	100	100	10
<b>TOTAL</b>	<b>500</b>	<b>10</b>	<b>4</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>10</b>

\* THE FOLLOWING ITEMS INCLUDE ESTIMATED QUANTITIES FOR HANDLING FIELD TILES ADJACENT TO I-72 DITCHES AND ACROSS DETENTION AREA ACCESS ROAD. (SEE SPECIAL PROVISIONS)

**SCHEDULE  
PIPE CULVERTS, TYPE 1, REINFORCED CONCRETE - ELLIPTICAL EQUIVALENT ROUND SIZE 42" & FLARED END SECTIONS EQUIVALENT ROUND SIZE 42"**

LOCATION	EQ. ROUND SIZE 42" (FOOT)	END SECTION EQ. ROUND SIZE 42" (EACH)
STA. 388+08 TO STA. 388+58 LT. (I-72)	50	2
<b>TOTAL</b>	<b>50</b>	<b>2</b>

**SCHEDULE  
REMOVE CONCRETE FOUNDATION - GROUND MOUNT**

LOCATION	QUANTITY (EACH)
STA. 395+05 101' LT.	1
STA. 395+05 111' LT.	1
<b>TOTAL</b>	<b>2</b>

**SCHEDULE  
PRECAST REINFORCED CONCRETE FLARED END SECTIONS SPECIAL**

LOCATION	12" (EACH)	24" (EACH)
STA. 7+02 30' RT. RAMP A	1	
STA. 12+59 30' RT. RAMP A		1
<b>TOTAL</b>	<b>1</b>	<b>1</b>

**SCHEDULE  
COMBINATION CURB & GUTTER REMOVAL AND REPLACEMENT**

LOCATION	QUANTITY (FOOT)
STA. 17+25 TO STA. 18+05 LT. & RT. (ASH GROVE)	160
<b>TOTAL</b>	<b>160</b>

**SCHEDULE  
ACCESS GATE DOUBLE 30 FOOT**

LOCATION	QUANTITY (EACH)
STA. 502+50 (E. ACCESS ROAD)	1
<b>TOTAL</b>	<b>1</b>

**SCHEDULE  
CONCRETE SLOPEWALL**

LOCATION	QUANTITY (SQ. FT.)
STA. 504+55 TO STA. 505+35 LT.	1785
<b>TOTAL</b>	<b>1785</b>

**SCHEDULE  
WOVEN WIRE FENCE 4"**

LOCATION	QUANTITY (FOOT)
STA. 387+90.76 150.53' LT. TO STA. 406+00 125' LT. (I-72)	1837
STA. 500+18 13' LT. TO STA. 509+00 17' LT. (E. ACCESS ROAD)	888
STA. 502+50 17' LT. TO 15' LT.	2
STA. 502+50 15' RT. (E. ACCESS ROAD) TO STA. 199+60 60' RT. (S.E. ACCESS ROAD)	1187
STA. 200+25 23' RT. (S.E. ACCESS ROAD) TO STA. 421+76.96 95.1' RT. (I-72)	1336
<b>TOTAL</b>	<b>5250</b>

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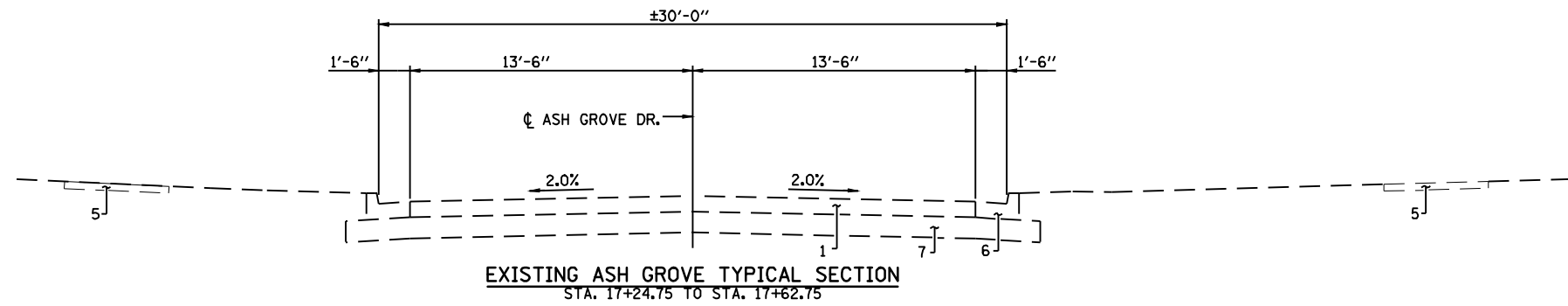


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No. 184-001907

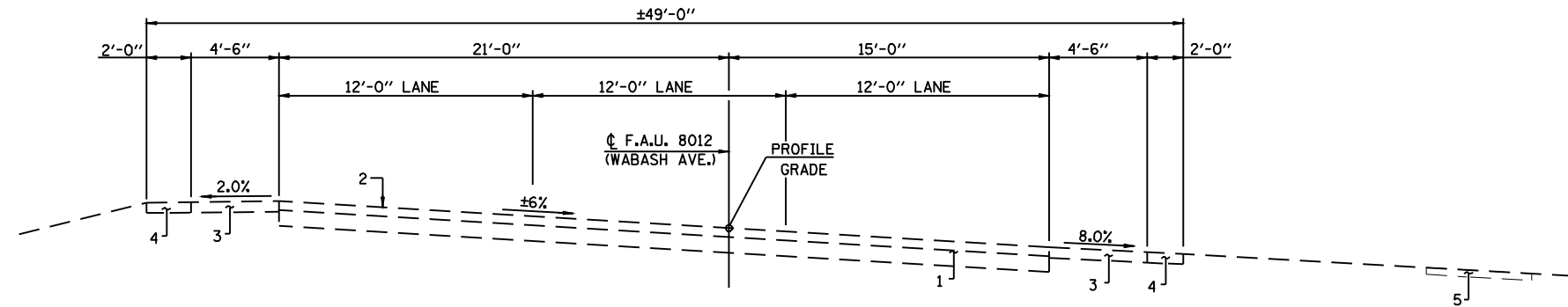
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SCALE: NONE SHEET NO. 6 OF 147 SHEETS STA. TO STA.

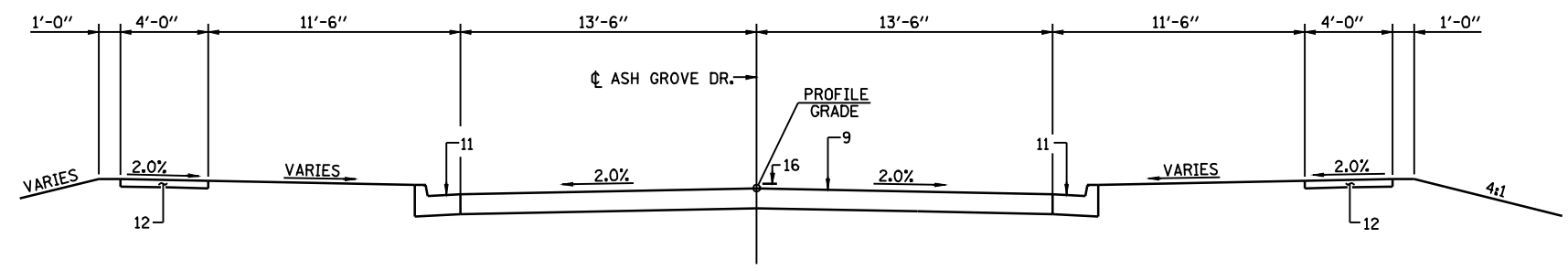
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<b>CONTRACT NO. 72A02</b>				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



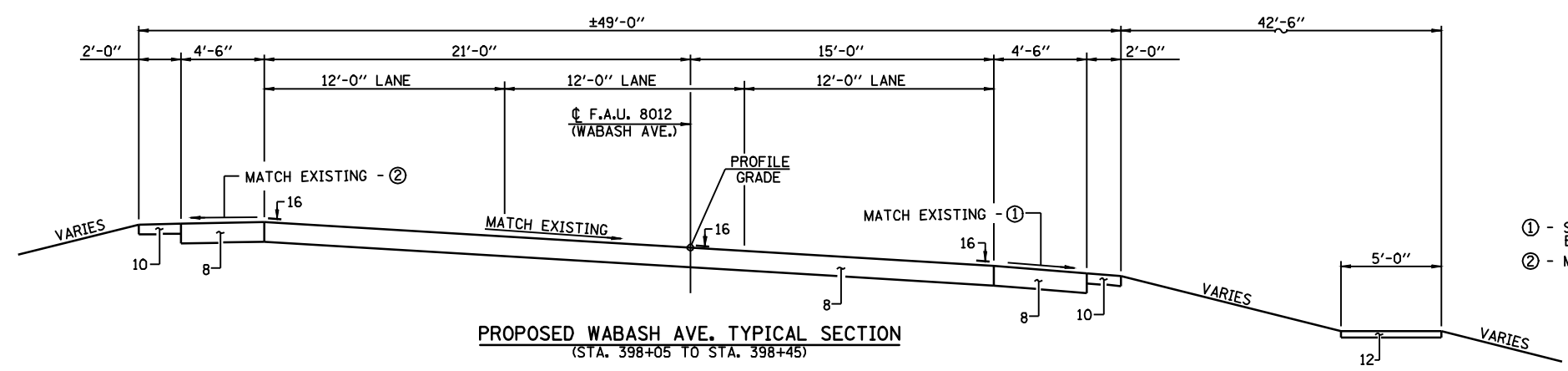
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STA. 17+24.75 TO STA. 17+62.75



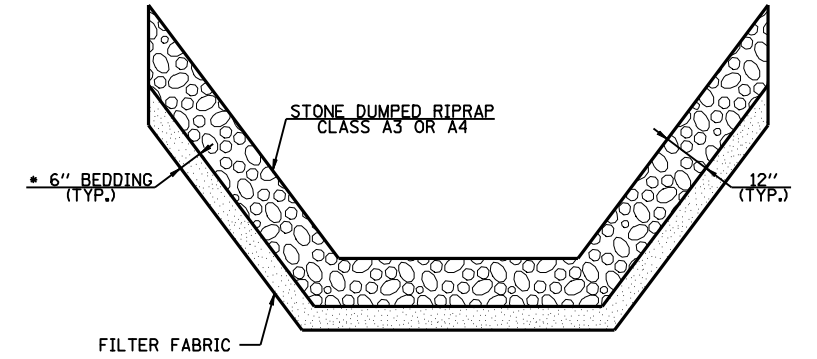
**EXISTING WABASH AVE. TYPICAL SECTION**  
(STA. 398+05 TO STA. 403+93.3)



**PROPOSED ASH GROVE RD. TYPICAL SECTION**  
(STA. 17+25 TO STA. 17+63)



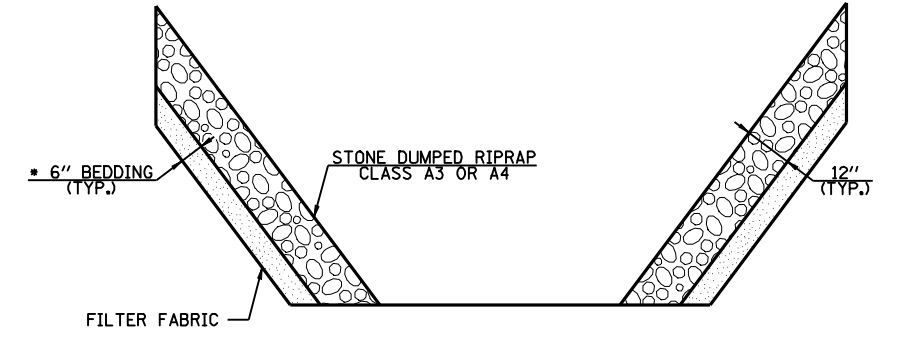
**PROPOSED WABASH AVE. TYPICAL SECTION**  
(STA. 398+05 TO STA. 398+45)



**TYPICAL RIPRAPPED DITCH SECTION**

(STA. 10+87 TO STA. 11+50 - CLASS A4)  
(STA. 17+70 TO STA. 17+95 - CLASS A3)  
(STA. 402+50 TO STA. 406+00 - CLASS A3)  
(STA. 6+90 TO STA. 7+10 - CLASS A4)  
(STA. 12+49 TO STA. 12+69 - CLASS A4 (RAMP A))

\* AT CLASS A4 LOCATIONS ONLY



**TYPICAL RIPRAPPED DITCH SECTION**

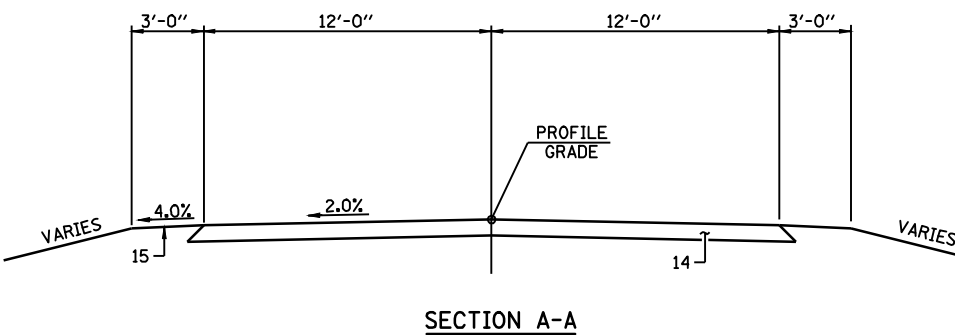
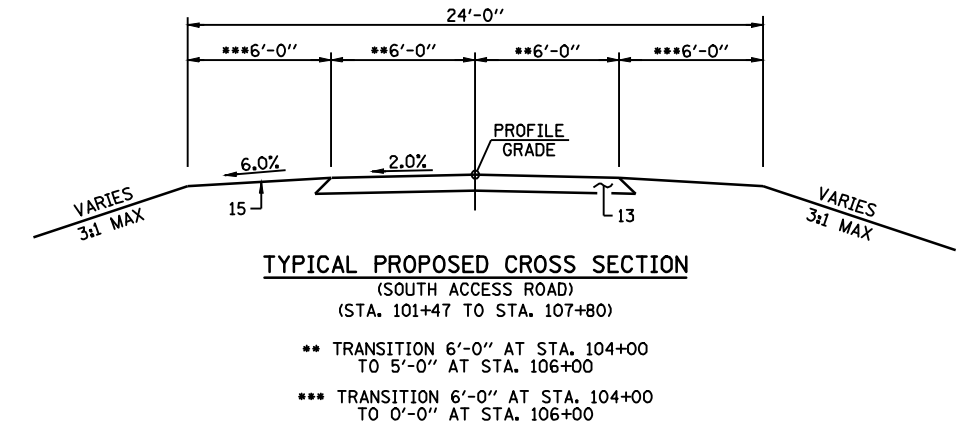
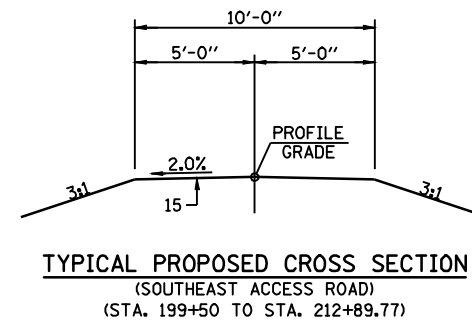
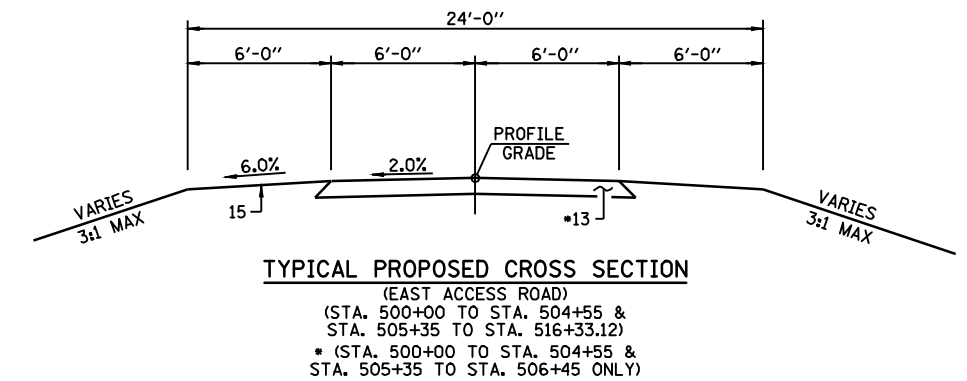
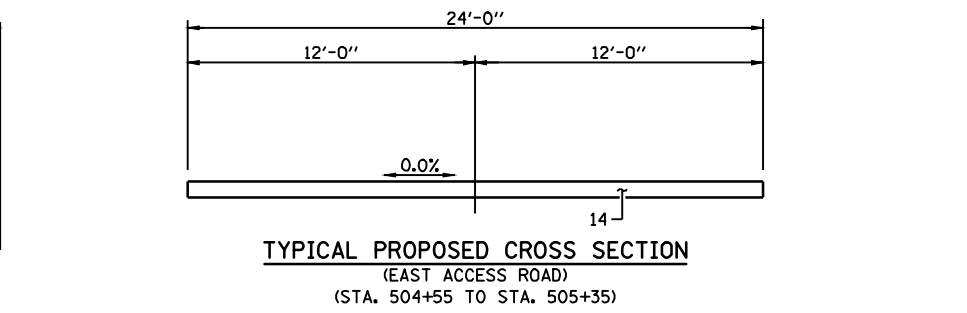
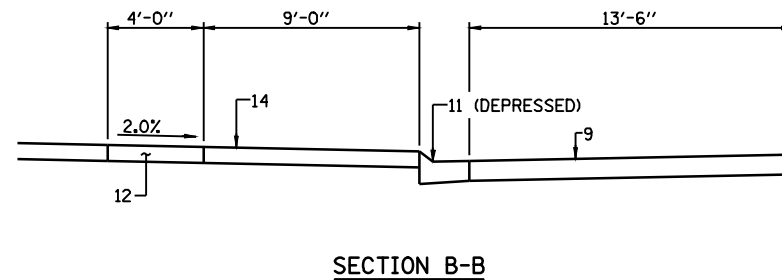
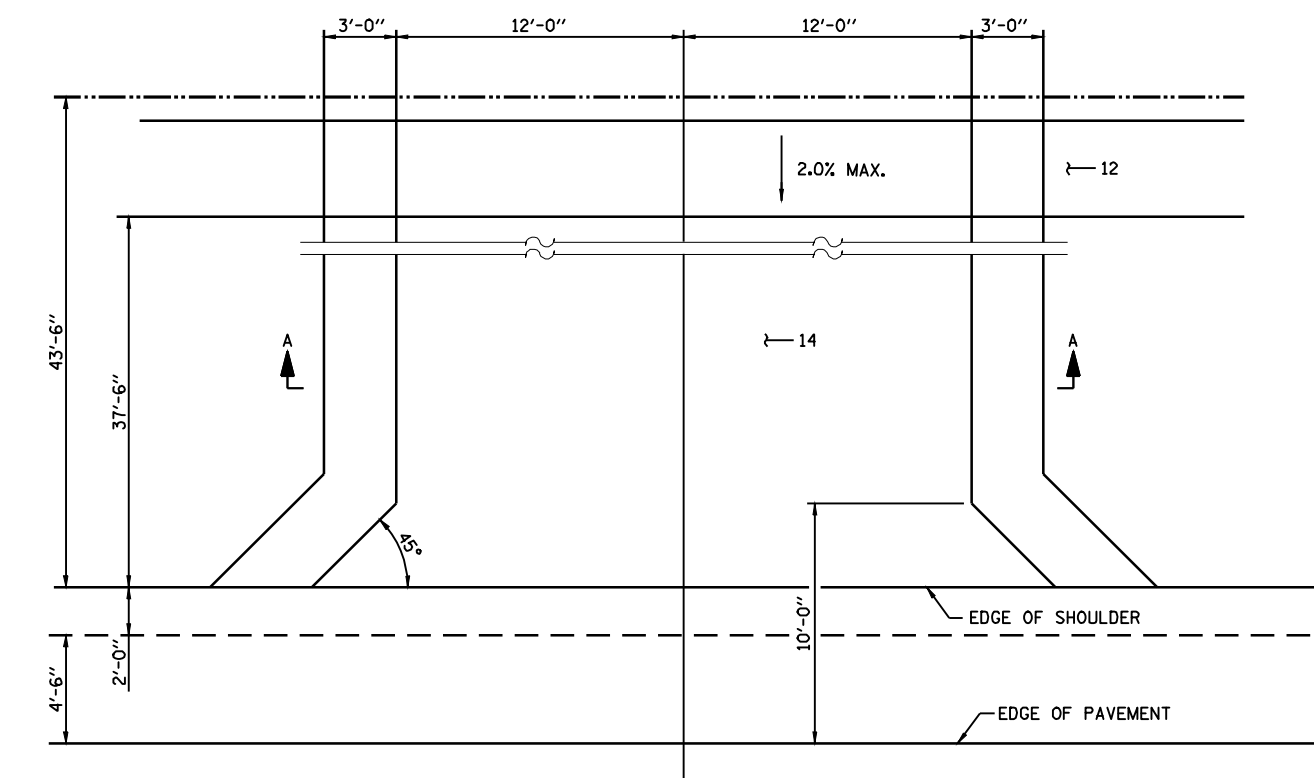
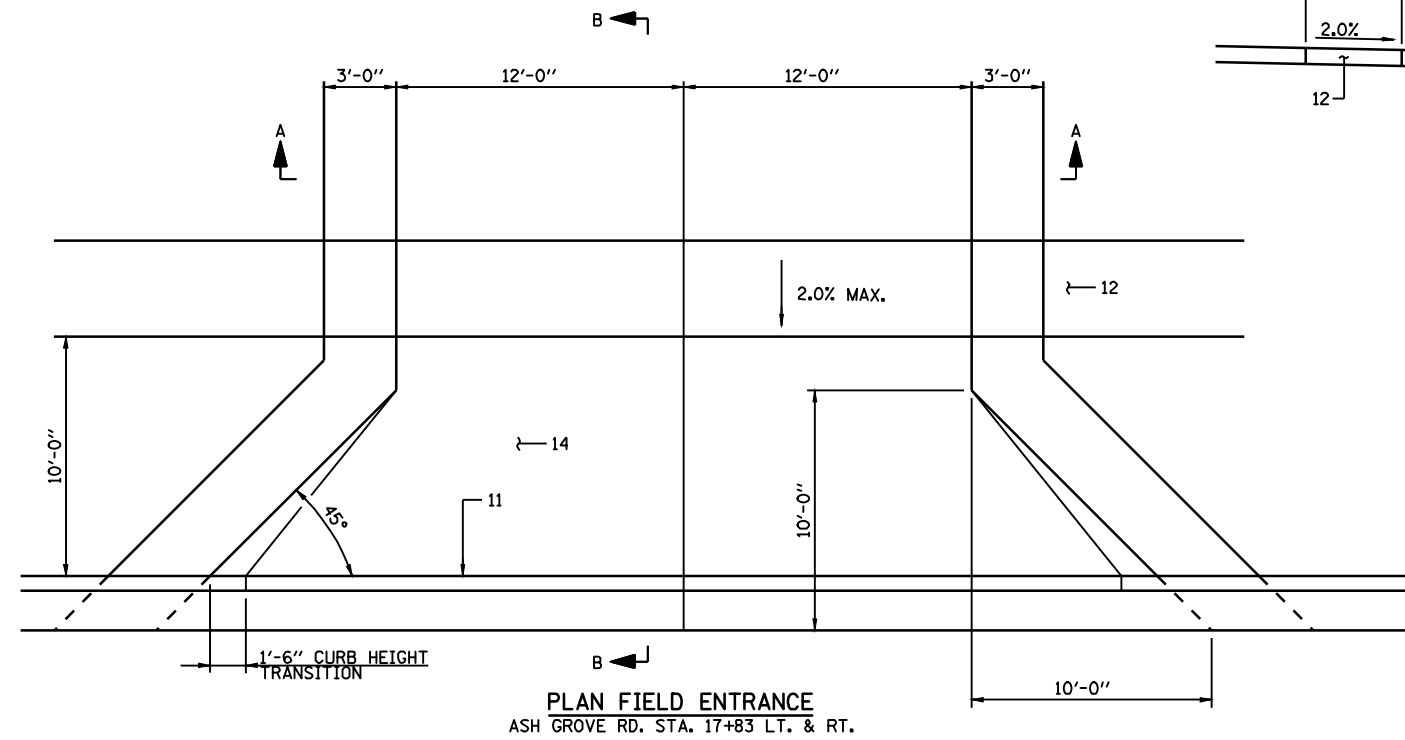
(STA. 11+50 TO STA. 16+57, STA. 17+95 TO STA. 21+50,  
STA. 389+80 TO STA. 402+20 - CLASS A3)  
(STA. 21+50 TO STA. 389+80 (I-72) - CLASS A4)

\* AT CLASS A4 LOCATIONS ONLY

**PAVEMENT LEGEND**

- 1) EXISTING P.C.C. PAVEMENT 9"
- 2) EXISTING BITUMINOUS OVERLAY (±2 1/2")
- 3) EXISTING BITUMINOUS SHOULDER (±6")
- 4) EXISTING AGGREGATE SHOULDER (±6")
- 5) EXISTING SIDEWALK
- 6) EXISTING CURB & GUTTER
- 7) EXISTING SUB-BASE 12"
- 8) PROPOSED CLASS D PATCH, TYPE IV 14"
- 9) PROPOSED CLASS D PATCH, TYPE IV 10"
- 10) PROPOSED AGGREGATE SHOULDER (6")
- 11) COMBINATION CURB AND GUTTER, TYPE B-6.18
- 12) PORTLAND CEMENT CONCRETE SIDEWALK, 4"
- 13) PROPOSED AGGREGATE SURFACE COURSE (8")
- 14) P.C.C. DRIVEWAY PAVEMENT 8"
- 15) EARTH SURFACE
- 16) PAINT PAVEMENT MARKING - LINE 5"

- ① - SLOPE SAME AS SUPERELEVATION BUT NOT LESS THAN 4%
- ② - MAXIMUM SLOPE 2%



- PAVEMENT LEGEND**
- 1) EXISTING P.C.C. PAVEMENT 9"
  - 2) EXISTING BITUMINOUS OVERLAY ( $\pm 2\frac{1}{2}$ ")
  - 3) EXISTING BITUMINOUS SHOULDER ( $\pm 6$ ")
  - 4) EXISTING AGGREGATE SHOULDER ( $\pm 6$ ")
  - 5) EXISTING SIDEWALK
  - 6) EXISTING CURB & GUTTER
  - 7) EXISTING SUB-BASE 12"
  - 8) PROPOSED CLASS D PATCH, TYPE IV 14"
  - 9) PROPOSED CLASS D PATCH, TYPE IV 10"
  - 10) PROPOSED AGGREGATE SHOULDER (6")
  - 11) COMBINATION CURB AND GUTTER, TYPE B-6.18
  - 12) PORTLAND CEMENT CONCRETE SIDEWALK, 4"
  - 13) PROPOSED AGGREGATE SURFACE COURSE (8")
  - 14) P.C.C. DRIVEWAY PAVEMENT 8"
  - 15) EARTH SURFACE
  - 16) PAINT PAVEMENT MARKING - LINE 5"

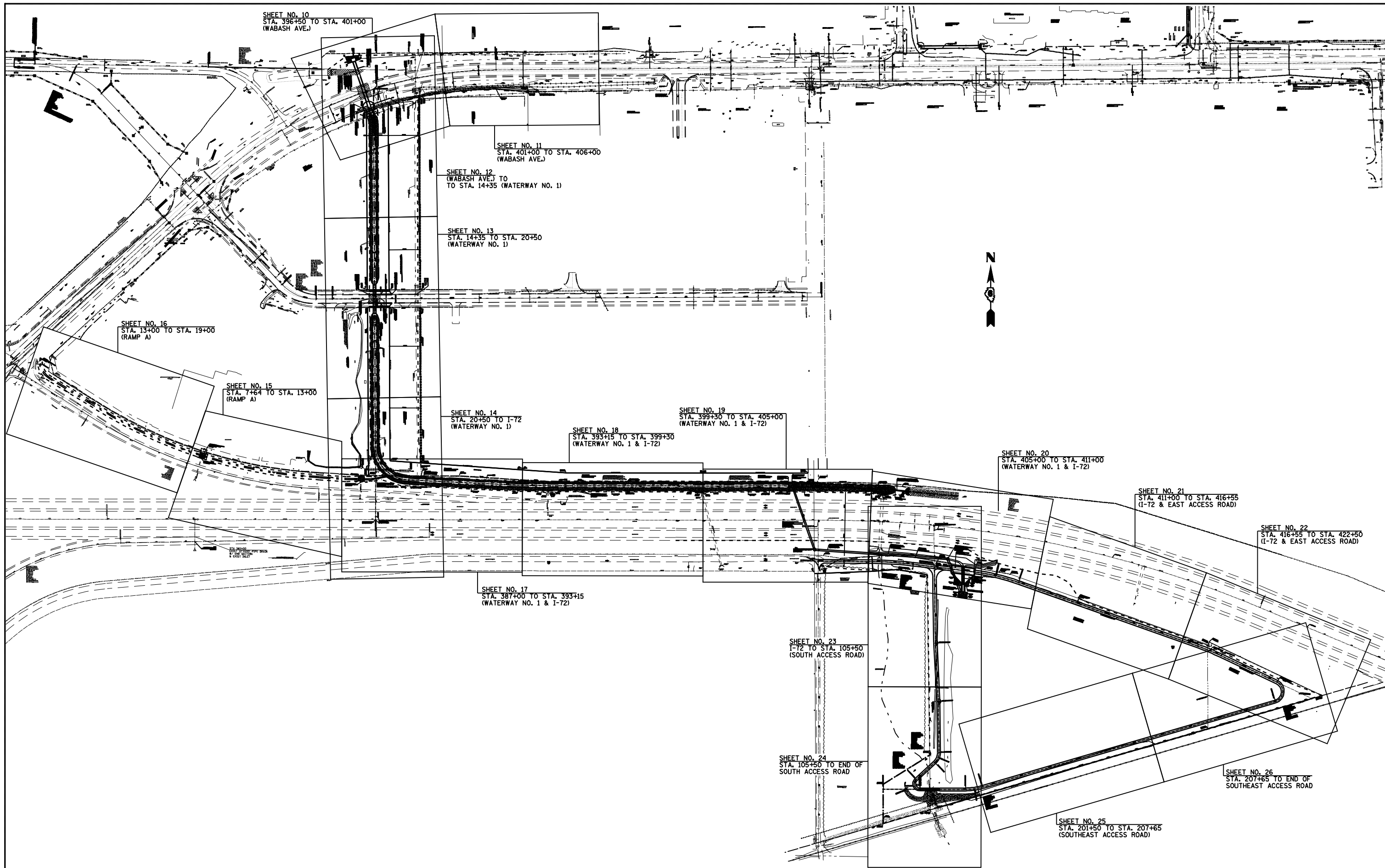
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PLOT DATE = May-18-2009 03:15:54PM		DATE -	REVISED -

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No. 184-001907

<b>DETAILS &amp; TYPICAL ROADWAY SECTIONS</b>			
SCALE:	SHEET NO. 8 OF 147 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	8
CONTRACT NO. 72A02				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				





SHEET NO. 10  
STA. 396+50 TO STA. 401+00  
(WABASH AVE.)

SHEET NO. 11  
STA. 401+00 TO STA. 406+00  
(WABASH AVE.)

SHEET NO. 12  
(WABASH AVE.) TO  
TO STA. 14+35 (WATERWAY NO. 1)

SHEET NO. 13  
STA. 14+35 TO STA. 20+50  
(WATERWAY NO. 1)

SHEET NO. 16  
STA. 13+00 TO STA. 19+00  
(RAMP A)

SHEET NO. 15  
STA. 7+64 TO STA. 13+00  
(RAMP A)

SHEET NO. 14  
STA. 20+50 TO I-72  
(WATERWAY NO. 1)

SHEET NO. 19  
STA. 399+30 TO STA. 405+00  
(WATERWAY NO. 1 & I-72)

SHEET NO. 18  
STA. 393+15 TO STA. 399+30  
(WATERWAY NO. 1 & I-72)

SHEET NO. 20  
STA. 405+00 TO STA. 411+00  
(WATERWAY NO. 1 & I-72)

SHEET NO. 21  
STA. 411+00 TO STA. 416+55  
(I-72 & EAST ACCESS ROAD)

SHEET NO. 22  
STA. 416+55 TO STA. 422+50  
(I-72 & EAST ACCESS ROAD)

SHEET NO. 17  
STA. 387+00 TO STA. 393+15  
(WATERWAY NO. 1 & I-72)

SHEET NO. 23  
I-72 TO STA. 105+50  
(SOUTH ACCESS ROAD)

SHEET NO. 24  
STA. 105+50 TO END OF  
SOUTH ACCESS ROAD

SHEET NO. 26  
STA. 207+65 TO END OF  
SOUTHEAST ACCESS ROAD

SHEET NO. 25  
STA. 201+50 TO STA. 207+65  
(SOUTHEAST ACCESS ROAD)

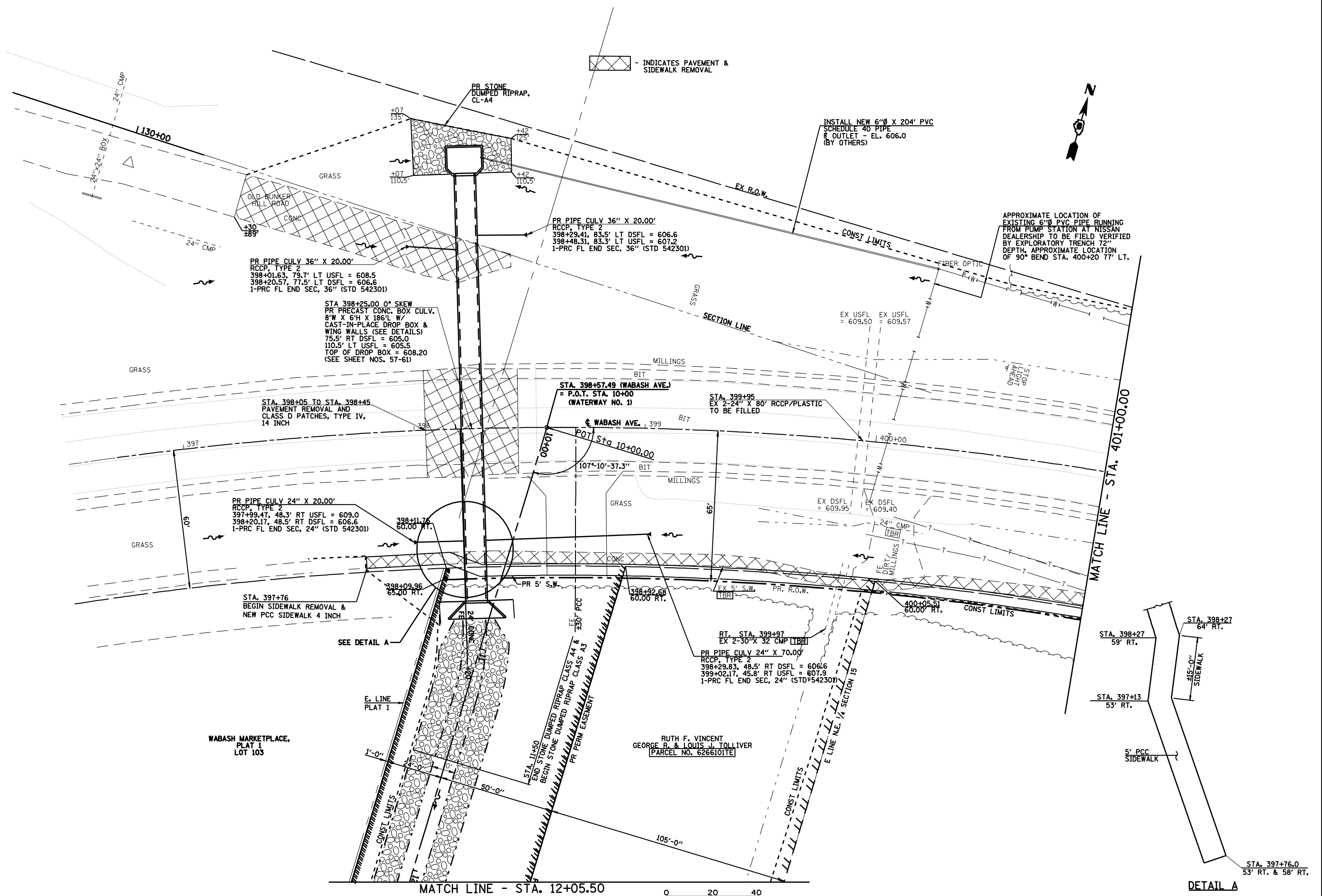
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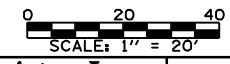
**Allen Henderson & Associates, Inc.**  
Civil and Structural Engineers Springfield, IL  
62703 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

<b>PLAN SHEET KEY</b>	
SCALE:	SHEET NO. 9 OF 147 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	9
CONTRACT NO. 72A02				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



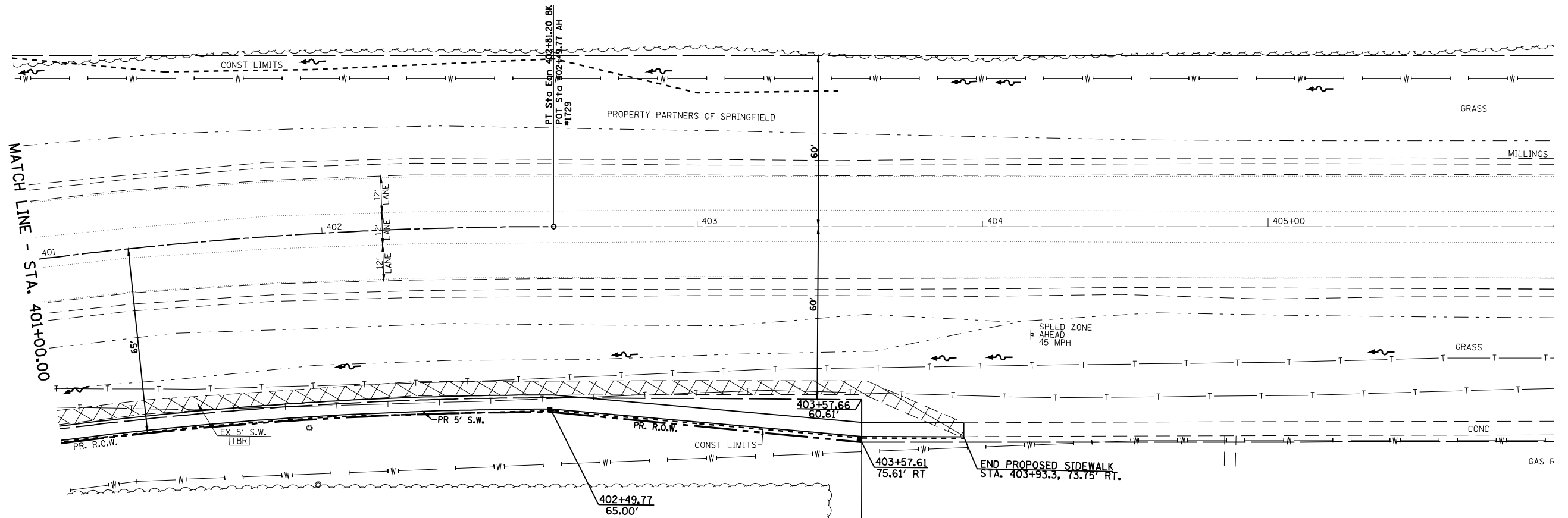
INDICATES PAVEMENT & SIDEWALK REMOVAL



DETAIL A

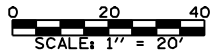
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<p><b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	<p align="center"><b>PLAN</b> <b>WABASH AVE.</b></p>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pwork\p\WIDOT\LAUGHLINRL\0143507\0672402-sht-plan-wabash.dgn	PLOT SCALE = 40.0000 ' / IN.	DRAWN -	REVISED -			8012	21(I-3)	SANGAMON	147	10
PLOT DATE = May-29-2009 08:05:54AM	DATE -	CHECKED -	REVISED -			CONTRACT NO. 72A02				
		DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			


PROPERTY PARTNERS  
OF SPRINGFIELD



- INDICATES PAVEMENT & SIDEWALK REMOVAL

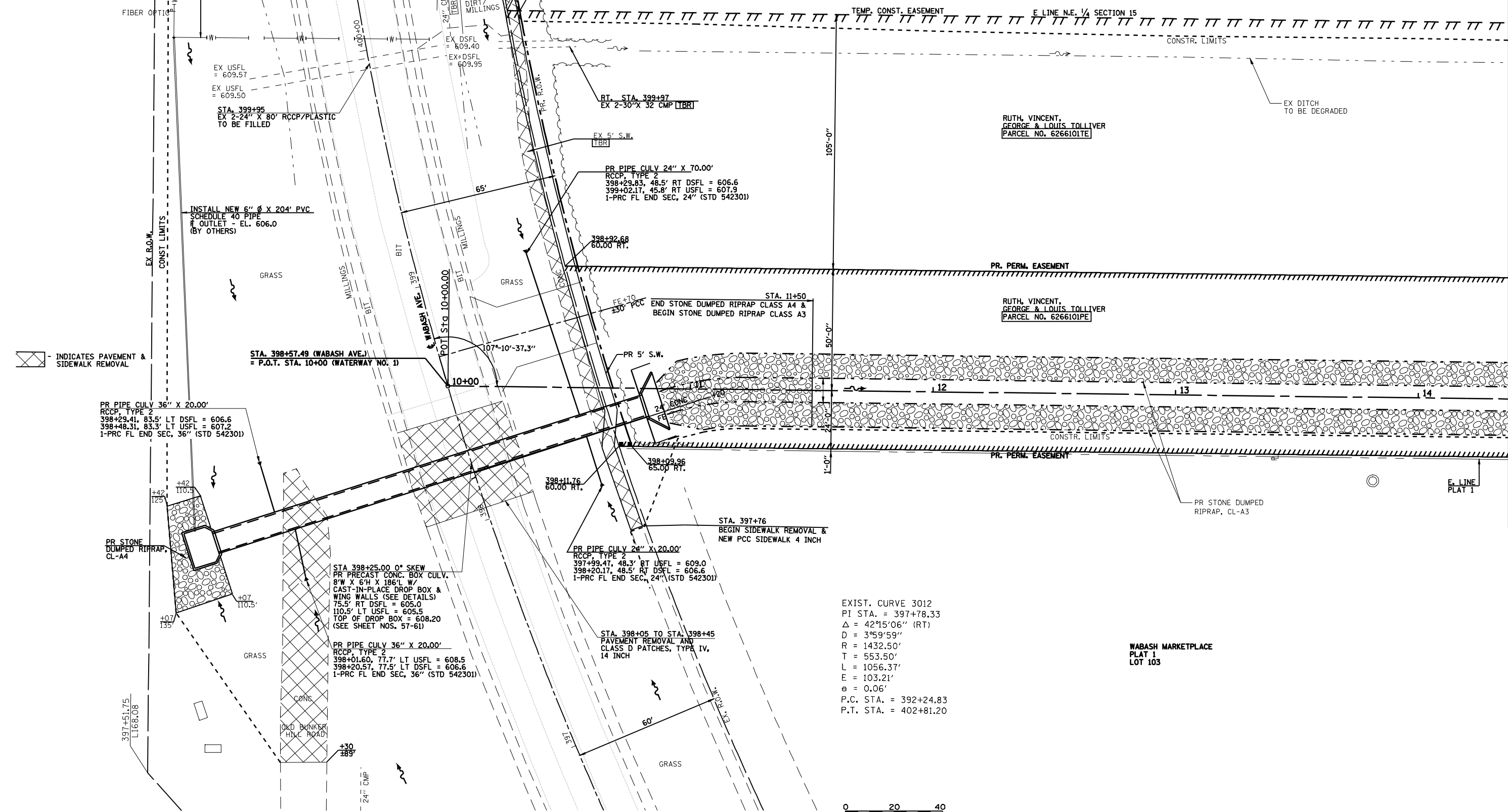
RUTH VINCENT,  
GEORGE & LOIS TOLLIVER  
PARCEL NO. 6266101



FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>PLAN WABASH AVE.</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
es:\pwork\PWIDOT\LAUGHLINRL\0143507\0672402-sht-plan-wabash.dgn	PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED -		SCALE: 1" = 20'	SHEET NO. 11 OF 147 SHEETS	STA. 401+00.00 TO STA. 406+00.00	8012	21(I-3)	SANGAMON	147	11
PLOT DATE = May-18-2009 03:16:07PM	DATE -	CHECKED -	REVISED -				<b>CONTRACT NO. 72A02</b>					
							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

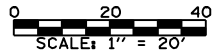
MATCH LINE - STA. 400+60.00

APPROXIMATE LOCATION OF EXISTING 6" Ø PVC PIPE RUNNING FROM PUMP STATION AT NISSAN DEALERSHIP. TO BE FIELD VERIFIED BY EXPLORATORY TRENCH 72" DEPTH. APPROXIMATE LOCATION OF 90° BEND STA. 400+20 77' LT.



INDICATES PAVEMENT & SIDEWALK REMOVAL

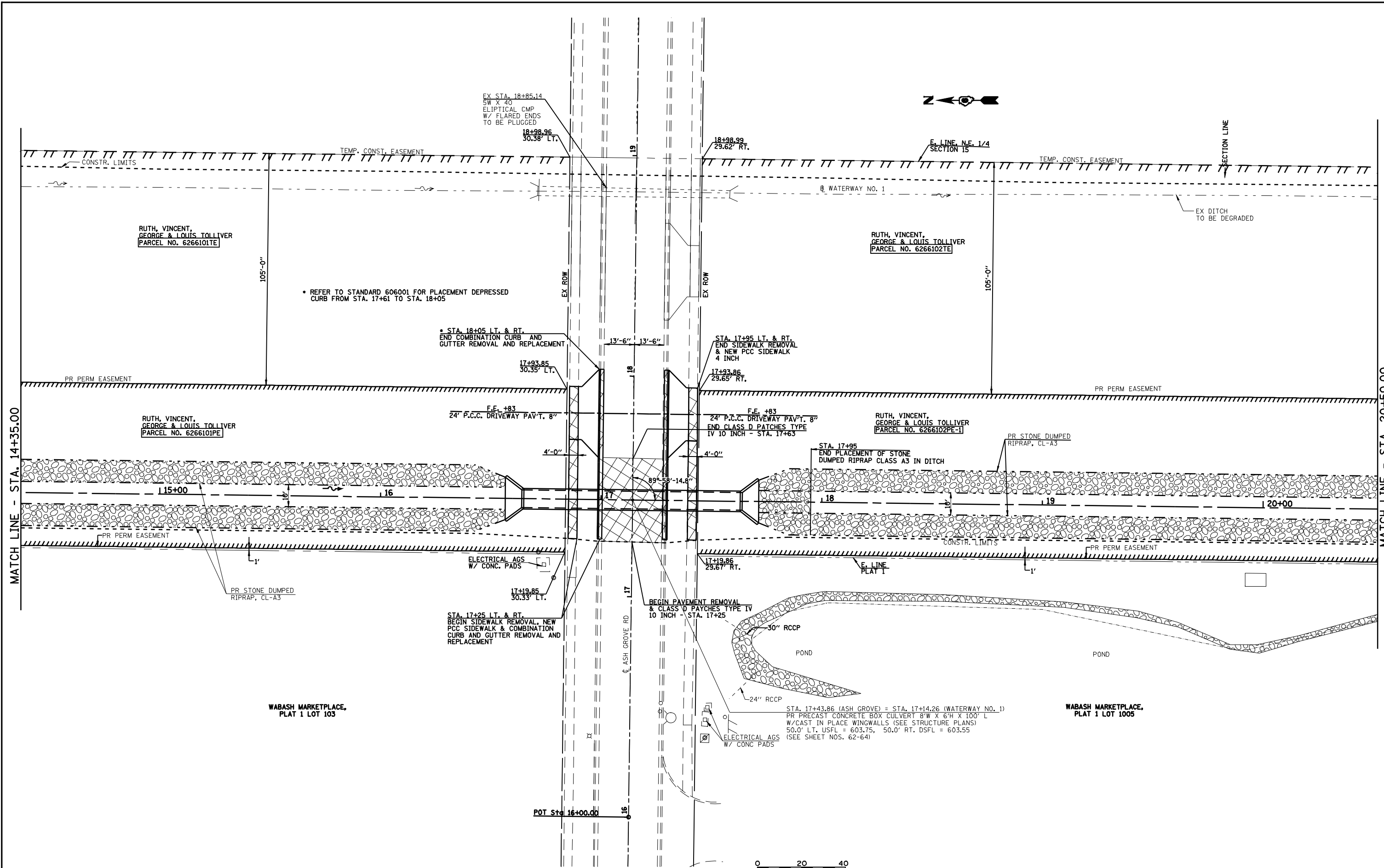
EXIST. CURVE 3012  
 PI STA. = 397+78.33  
 $\Delta = 42^{\circ}15'06''$  (RT)  
 $D = 3^{\circ}59'59''$   
 $R = 1432.50'$   
 $T = 553.50'$   
 $L = 1056.37'$   
 $E = 103.21'$   
 $e = 0.06'$   
 P.C. STA. = 392+24.83  
 P.T. STA. = 402+81.20



MATCH LINE - STA. 14+35.00

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<p><b>Allen Henderson &amp; Associates, Inc.</b>                  Civil and Structural Engineers Springfield, IL.                  62703 Phone: (217)544-8033 IL Design Firm                  No. 184-001907</p>	<p align="center"><b>PLAN</b>  <b>WATERWAY NO. 1</b></p>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
e:\pwwork\pwwdot\LAUGHLINRL\0143507\072402-sht-plan-waterway1.dgn	DRAWN -	REVISED -	8012				21(I-3)	SANGAMON	147	12	
PLOT SCALE = 48.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 72A02								
PLOT DATE = May-29-2009 07:50:53AM	DATE -	REVISED -	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT						

SCALE: 1" = 20' SHEET NO. 12 OF 147 SHEETS WABASH AVE. TO STA. 14+35.00



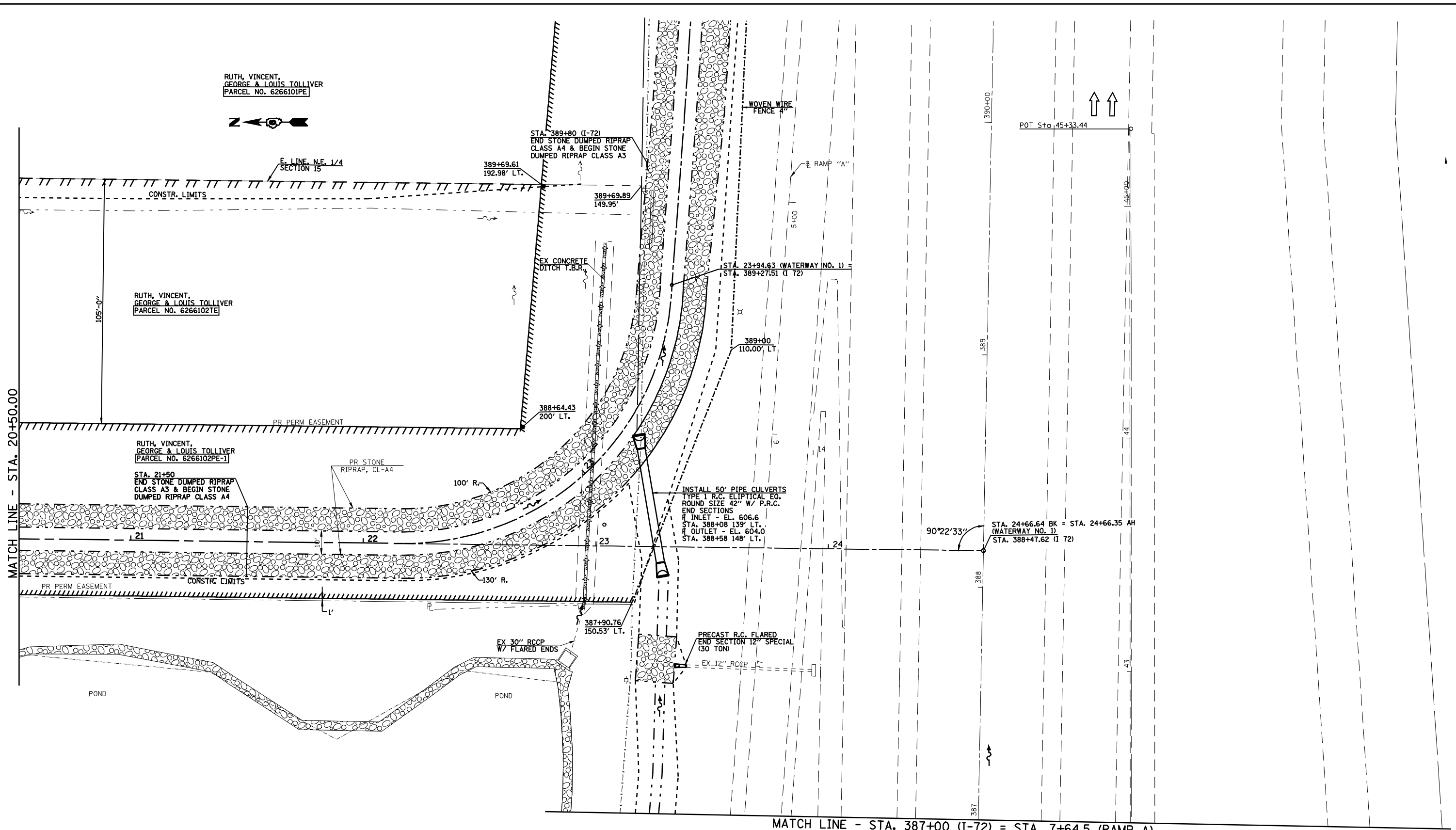
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 USER NAME = laughlinr1  
 DRAWN -  
 CHECKED -  
 DATE -  
 PLOT SCALE = 40.0000' / IN.  
 PLOT DATE = May-18-2009 03:16:13PM

DESIGNED -  
 REVISIONS:  
 1. REVISED -  
 2. REVISED -  
 3. REVISED -  
 4. REVISED -

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 No. 184-001907

**PLAN**  
**ASH GROVE ROAD & WATERWAY NO. 1**  
 SCALE: 1" = 20'  
 SHEET NO. 13 OF 147 SHEETS  
 STA. 14+35.00 TO STA. 20+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	13
CONTRACT NO. 72A02				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



RUTH, VINCENT,  
GEORGE & LOUIS TOLLIVER  
PARCEL NO. 6266101PE



RUTH, VINCENT,  
GEORGE & LOUIS TOLLIVER  
PARCEL NO. 6266102TE

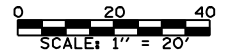
RUTH, VINCENT,  
GEORGE & LOUIS TOLLIVER  
PARCEL NO. 6266102PE-1

WOVEN WIRE  
FENCE 4"

POT Sta. 45+33.44

MATCH LINE - STA. 20+50.00

MATCH LINE - STA. 387+00 (I-72) = STA. 7+64.5 (RAMP A)



FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
e:\pwwork\pwwid\LAUGHLINRL\0143507\0672402-sht-plan-waterway1.dgn		DRAWN -	REVISED -
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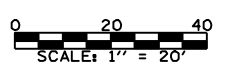
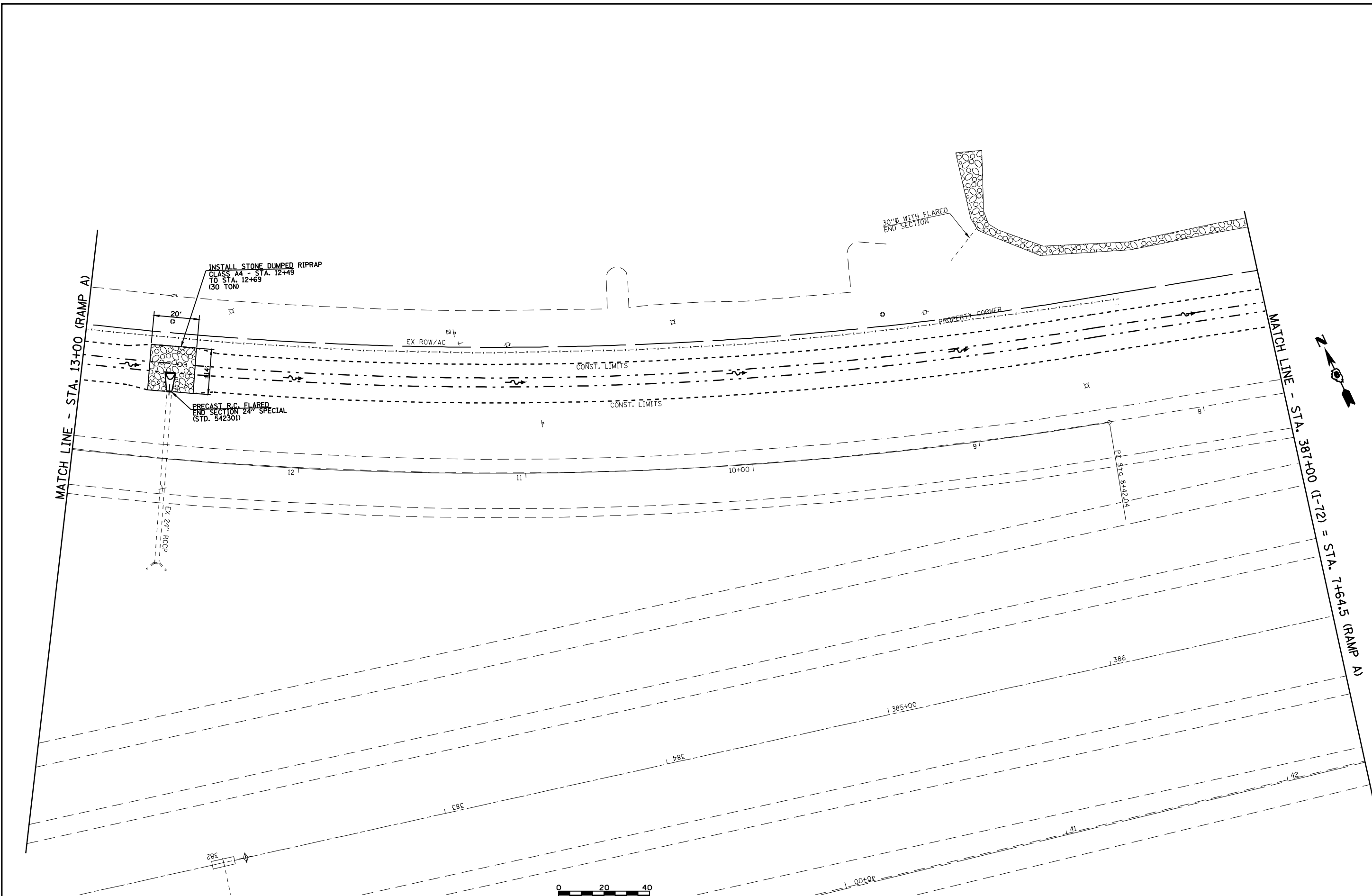


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No. 184-001907

**PLAN**  
**WATERWAY NO. 1**

SCALE: 1" = 20' SHEET NO. 14 OF 147 SHEETS STA. 20+50.00 TO I 72

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	14
CONTRACT NO. 72A02				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FILE NAME =  
 USER NAME = laughlinr1  
 DESIGNED -  
 DRAWN -  
 PLOT SCALE = 40.0000 ' / IN.  
 CHECKED -  
 PLOT DATE = May-18-2009 03:16:19PM  
 DATE -

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -



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 No. 184-001907

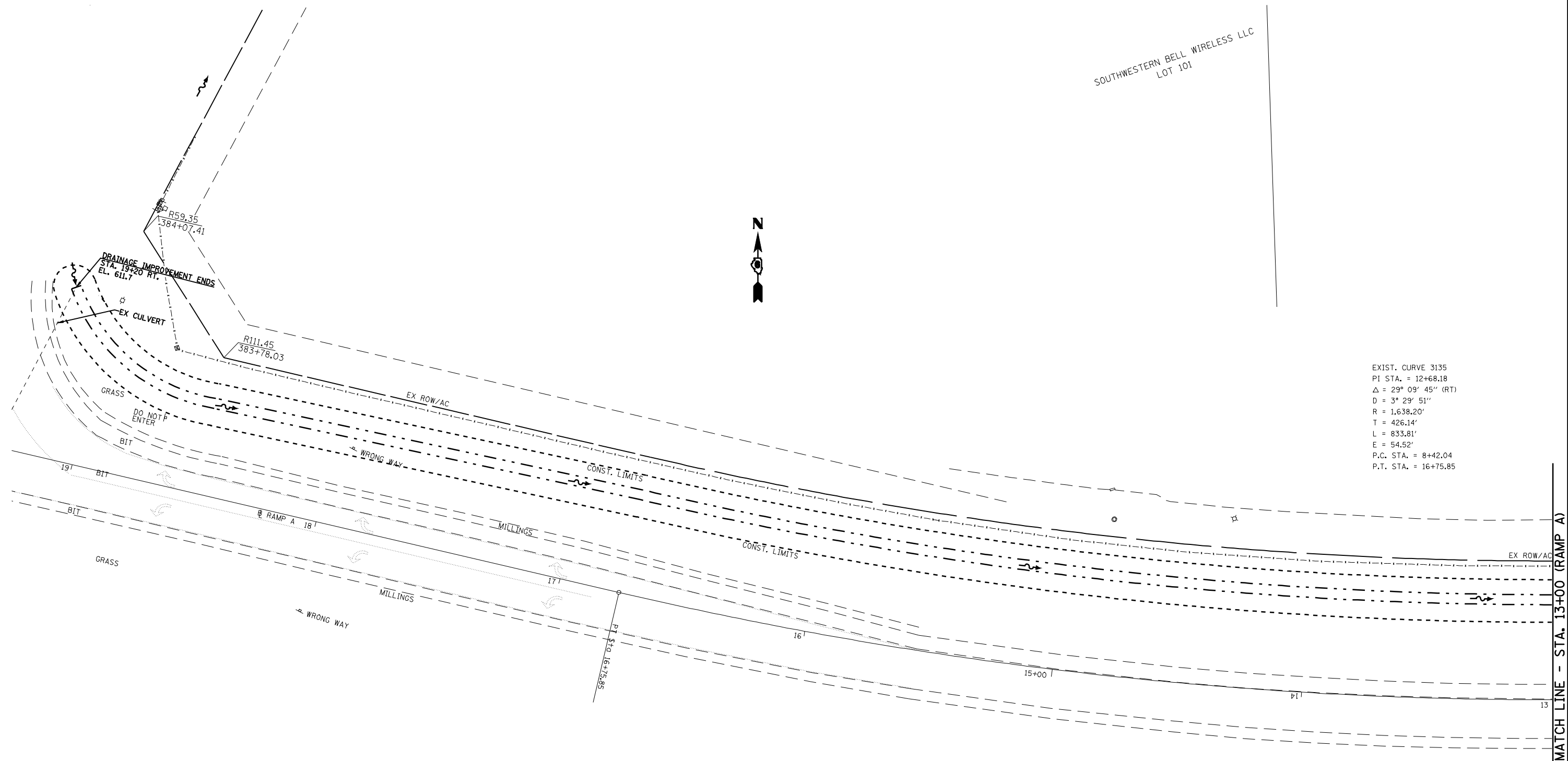
**PLAN RAMP A**  
 SCALE: 1" = 20'  
 SHEET NO. 15 OF 147 SHEETS  
 STA. 7+64.50 TO STA. 13+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	15
CONTRACT NO. 72A02				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

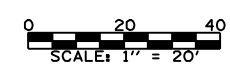
SOUTHWESTERN BELL WIRELESS LLC  
LOT 101



EXIST. CURVE 3135  
PI STA. = 12+68.18  
 $\Delta = 29^\circ 09' 45''$  (RT)  
D = 3' 29' 51"  
R = 1,638.20'  
T = 426.14'  
L = 833.81'  
E = 54.52'  
P.C. STA. = 8+42.04  
P.T. STA. = 16+75.85



MATCH LINE - STA. 13+00 (RAMP A)



FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
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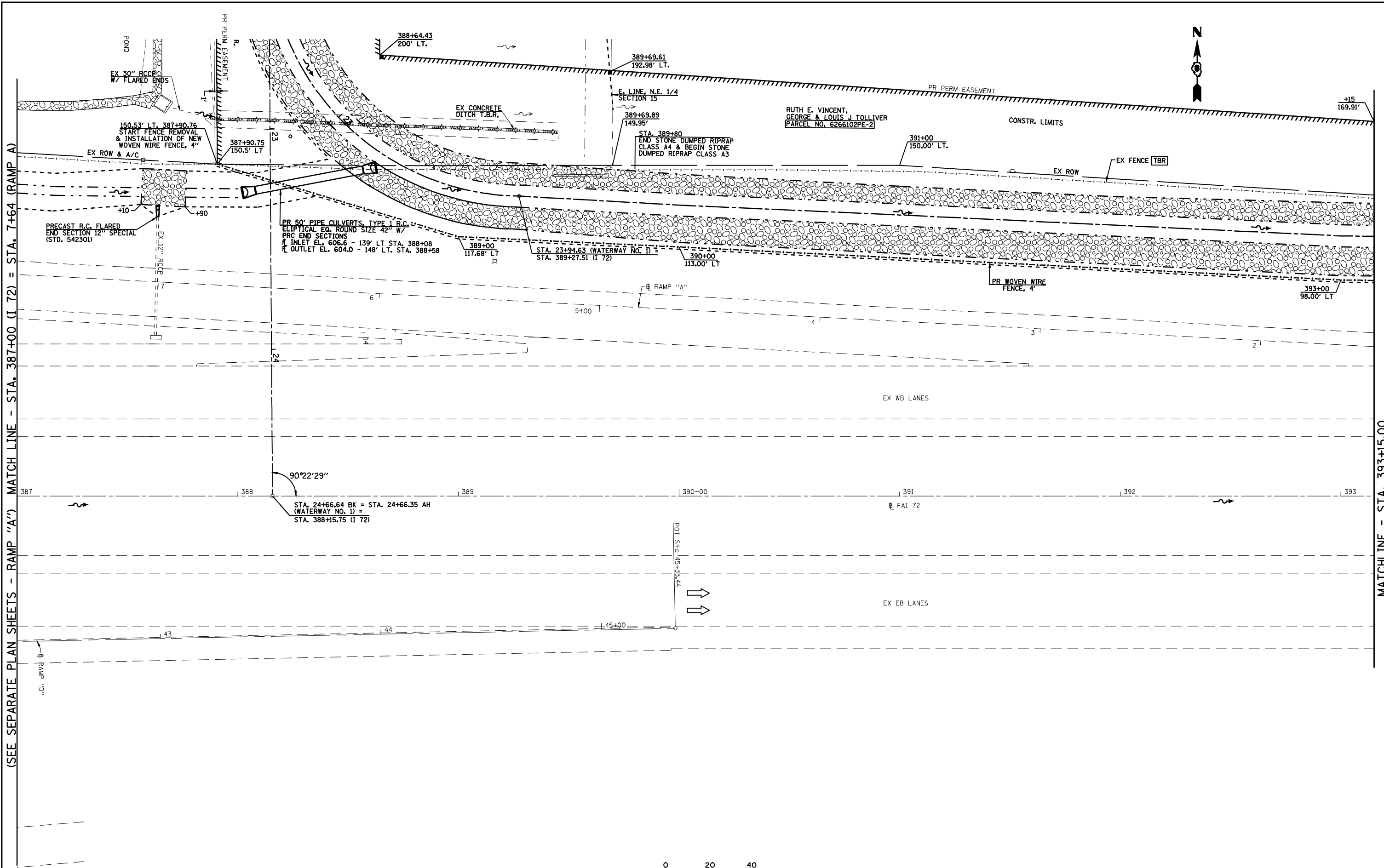


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<b>PLAN RAMP A</b>	
SCALE: 1" = 20'	SHEET NO. 16 OF 147 SHEETS
STA. 13+00.00 TO STA. 19+20.00	

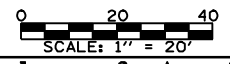
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	16
CONTRACT NO. 72A02				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				





(SEE SEPARATE PLAN SHEETS - RAMP "A") MATCH LINE - STA. 387+00 (I 72) = STA. 7+64 (RAMP A)

MATCHLINE - STA. 393+15.00



FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
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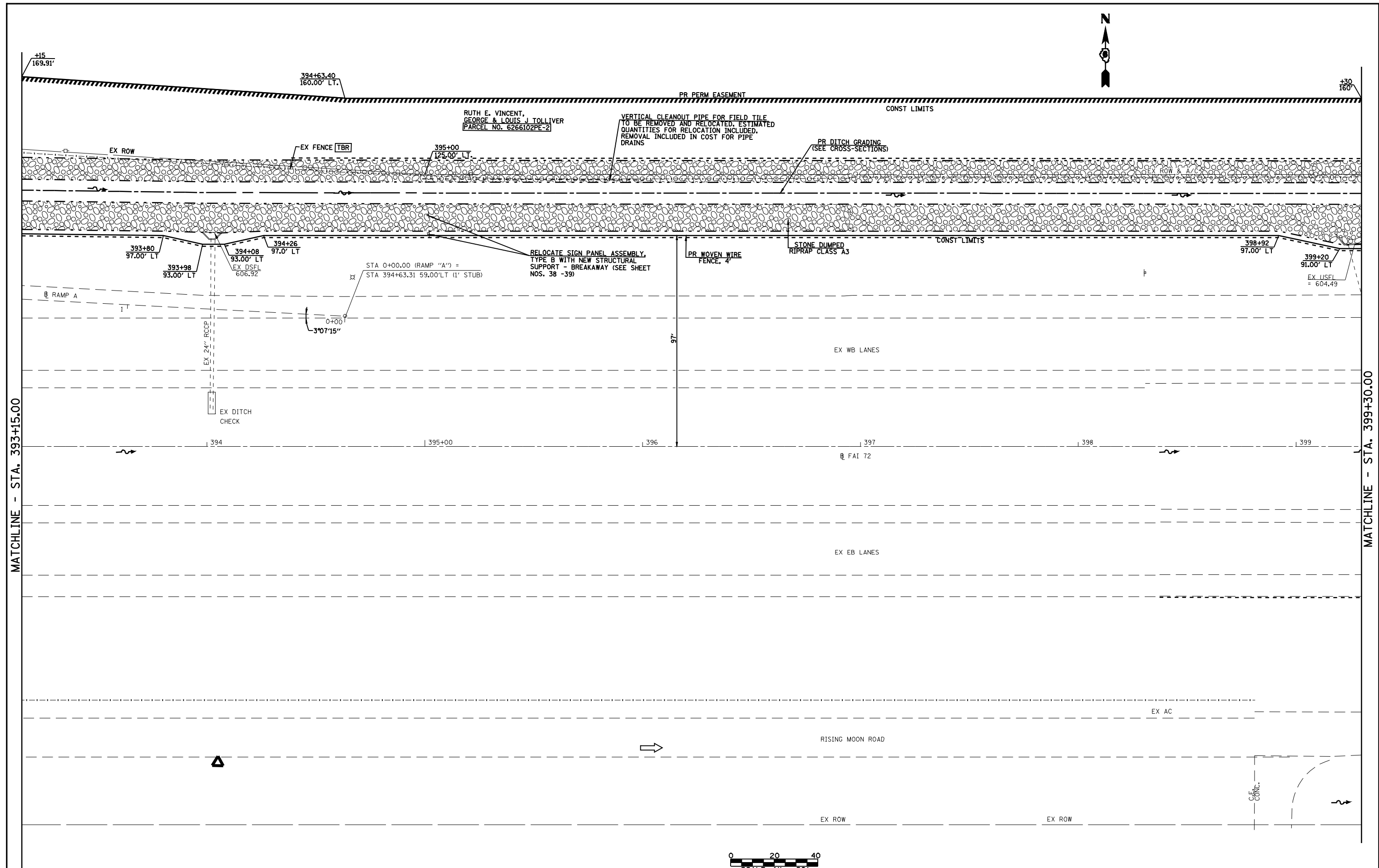


**Allen Henderson & Associates, Inc.**  
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**PLAN**  
**WATERWAY NO. 1 & 172**

SCALE: 1" = 20'    SHEET NO. 17 OF 147 SHEETS    STA. 387+00.00 TO STA. 393+15.00


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	17
CONTRACT NO. 72A02				
FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT				



MATCHLINE - STA. 393+15.00

MATCHLINE - STA. 399+30.00

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PLOT DATE = May-18-2009 03:16:26PM		DATE -	REVISED -

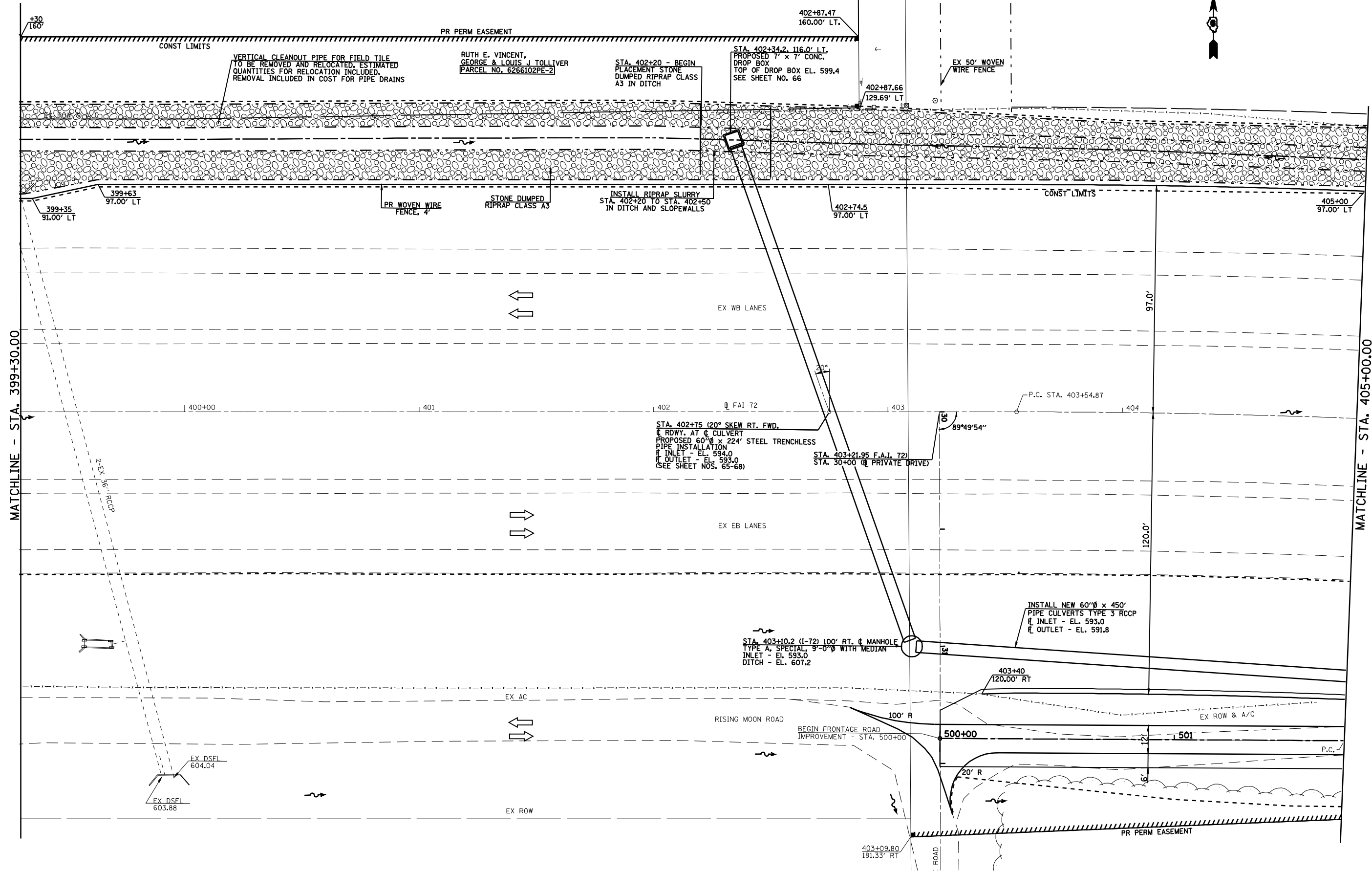


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 No. 184-001907


**PLAN**  
**WATERWAY NO. 1 & 172**

SCALE: 1" = 20'    SHEET NO. 18 OF 147 SHEETS    STA. 393+15.00 TO STA. 399+30.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	18
CONTRACT NO. 72A02				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

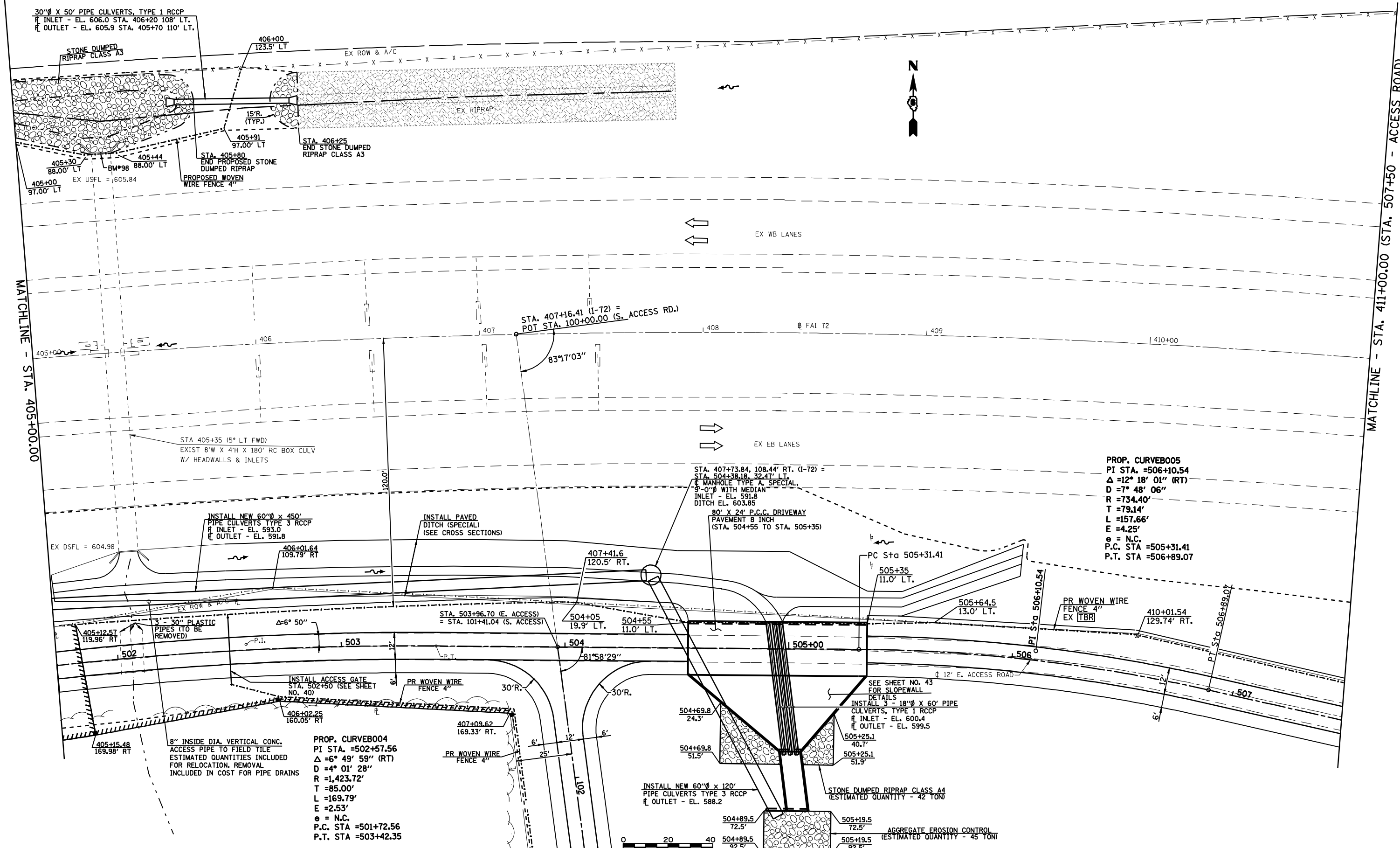


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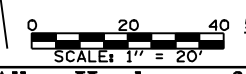
**PLAN**  
**WATERWAY NO. 1 & 172**  
 SCALE: 1" = 20'  
 SHEET NO. 19 OF 147 SHEETS  
 STA. 399+30.00 TO STA. 405+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	19
CONTRACT NO. 72A02				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

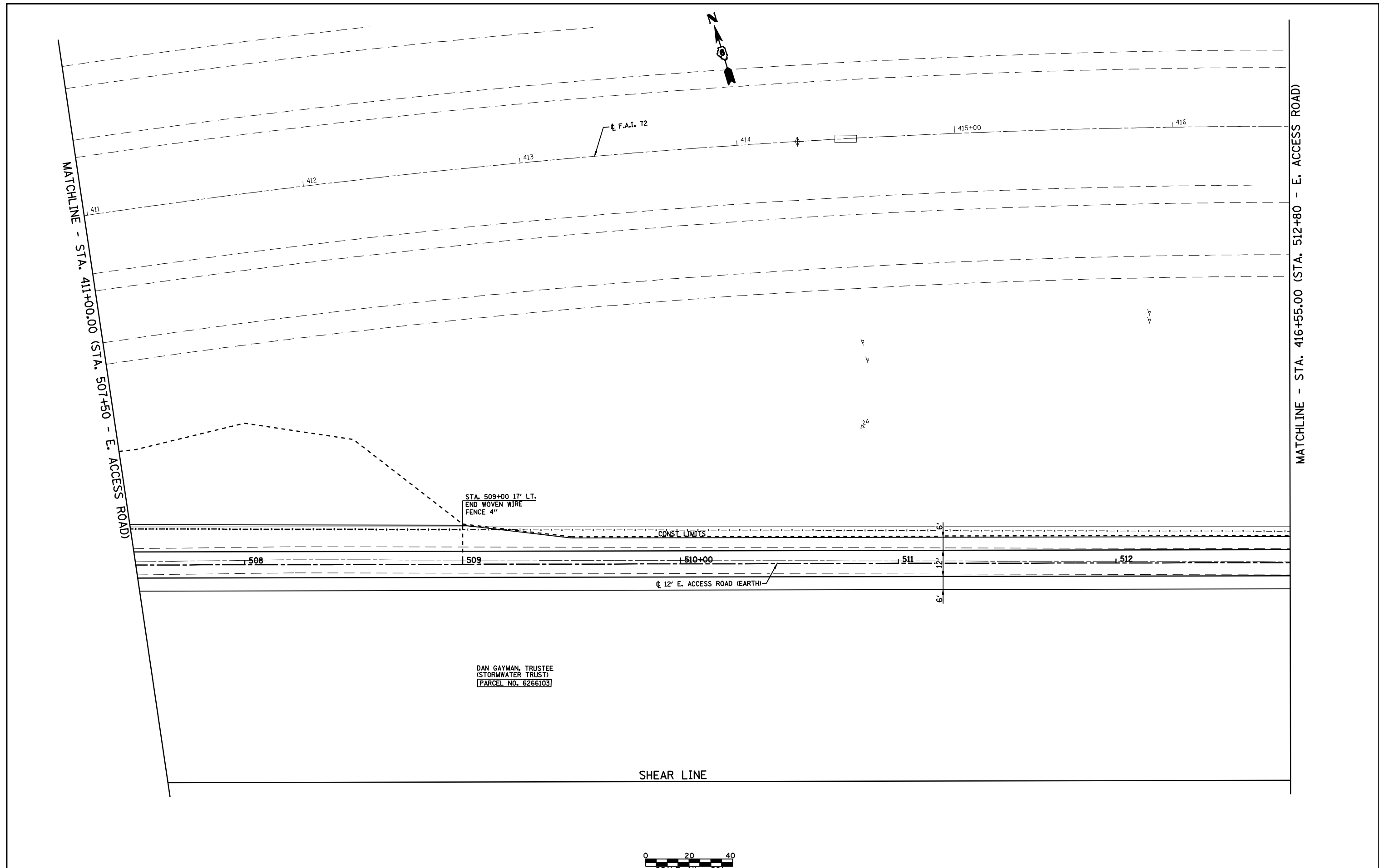


**PROP. CURVE005**  
 PI STA. =506+10.54  
 $\Delta = 12^\circ 18' 01''$  (RT)  
 $D = 7^\circ 48' 06''$   
 $R = 734.40'$   
 $T = 79.14'$   
 $L = 157.66'$   
 $E = 4.25'$   
 $\theta = \text{N.C.}$   
 P.C. STA =505+31.41  
 P.T. STA =506+89.07

**PROP. CURVE004**  
 PI STA. =502+57.56  
 $\Delta = 6^\circ 49' 59''$  (RT)  
 $D = 4^\circ 01' 28''$   
 $R = 1,423.72'$   
 $T = 85.00'$   
 $L = 169.79'$   
 $E = 2.53'$   
 $\theta = \text{N.C.}$   
 P.C. STA =501+72.56  
 P.T. STA =503+42.35

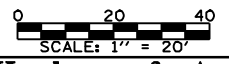



FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -		<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>PLAN</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
es:\pwwork\pwwid\LAUGHLINRL\0143507\0672402-sht-plan-172.dgn		DRAWN -	REVISED -			<b>I 72 &amp; ACCESS /EAST FRONTAGE ROAD</b>		8012	21(I-3)	SANGAMON	147	20	
PLOT SCALE = 40.0000' / IN.		CHECKED -	REVISED -			SCALE: 1" = 20'		SHEET NO. 20 OF 147 SHEETS		STA. 405+00.00 TO STA. 411+00.00		CONTRACT NO. 72A02	
PLOT DATE = May-18-2009 03:16:32PM		DATE -	REVISED -			SCALE: 1" = 20'		SHEET NO. 20 OF 147 SHEETS		STA. 405+00.00 TO STA. 411+00.00		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



DAN GAYMAN, TRUSTEE  
(STORMWATER TRUST)  
(PARCEL NO. 6266103)

SHEAR LINE



FILE NAME = e:\pwwork\PWIDOT\LAUGHLINRL\0143507\0672A02-sht-plan-172.dgn	USER NAME = laughlinr1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>PLAN</b> <b>172 &amp; ACCESS /EAST FRONTAGE ROAD</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 40.0000' / IN.	DRAWN -	REVISED -				8012	21(I-3)	SANGAMON	147	21	
PLOT DATE = May-18-2009 03:16:35PM	CHECKED -	REVISED -	REVISED -	SCALE: 1" = 20'		SHEET NO. 21 OF 147 SHEETS	STA. 411+00.00 TO STA. 416+55.00	CONTRACT NO. 72A02				
							FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT				



MATCHLINE - STA. 416+55.00 (STA. 512+80 - E. ACCESS ROAD)

417 | 418 | PT. Sta. 418+166.16 | 419 | 420+00 | 421 | 422

☉ F.A.I. 72

PROP. CURVE006  
 PI STA. =513+79.17  
 $\Delta$  =5° 45' 12" (RT)  
 D =6° 50' 14"  
 R =838.00'  
 T =42.11'  
 L =84.15'  
 E =1.06'  
 P.C. STA =513+37.06  
 P.T. STA =514+21.20

417+46.00  
173.14' RT.  
 417+50.09  
183.27' RT.

PI Sta 513+79.17 PT Sta 514+21.20

PC Sta 513+37.06

CONST LIMITS

POT Sta 516+33.12 =  
 POT Sta 212+89.77

513

514

515+00

516

☉ 12' E. ACCESS ROAD (EARTH)

PI Sta 212+90.98

421+76.95  
195.09' RT.

DAN GAYMAN, TRUSTEE  
 (STORMWATER TRUST)  
 [PARCEL NO. 6266103]



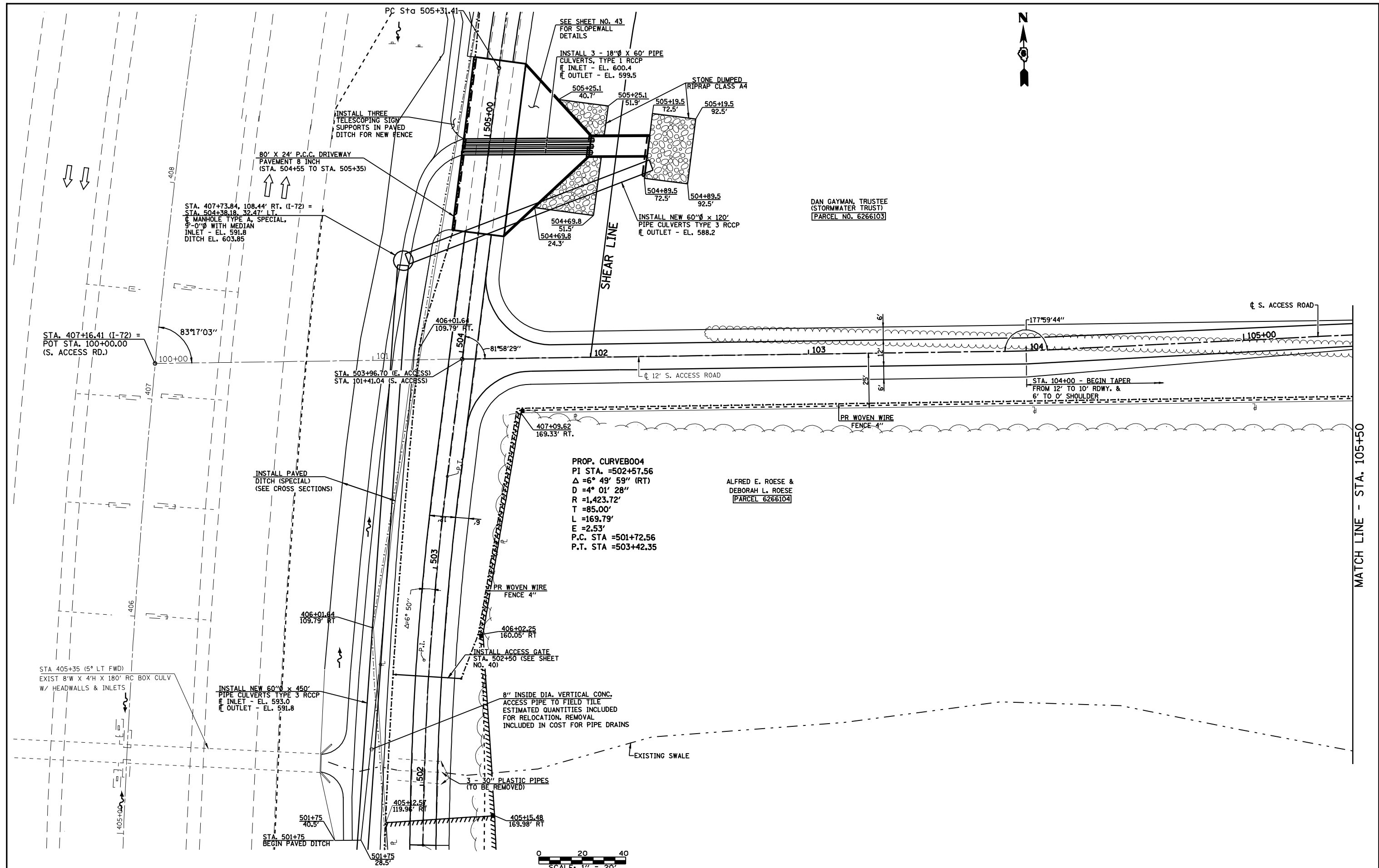
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PLOT SCALE = 40.0000' / IN.		DRAWN -	REVISED -
PLOT DATE = May-18-2009 03:16:38PM		CHECKED -	REVISED -
		DATE -	REVISED -



**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

<b>PLAN</b>	
<b>172 &amp; ACCESS /EAST FRONTAGE ROAD</b>	
SCALE: 1" = 20'	SHEET NO. 22 OF 147 SHEETS
STA. 416+55.00 TO STA. 422+00.00	

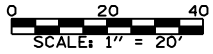
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	22
CONTRACT NO. 72A02				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



DAN GAYMAN, TRUSTEE  
(STORMWATER TRUST)  
[PARCEL NO. 6266103]

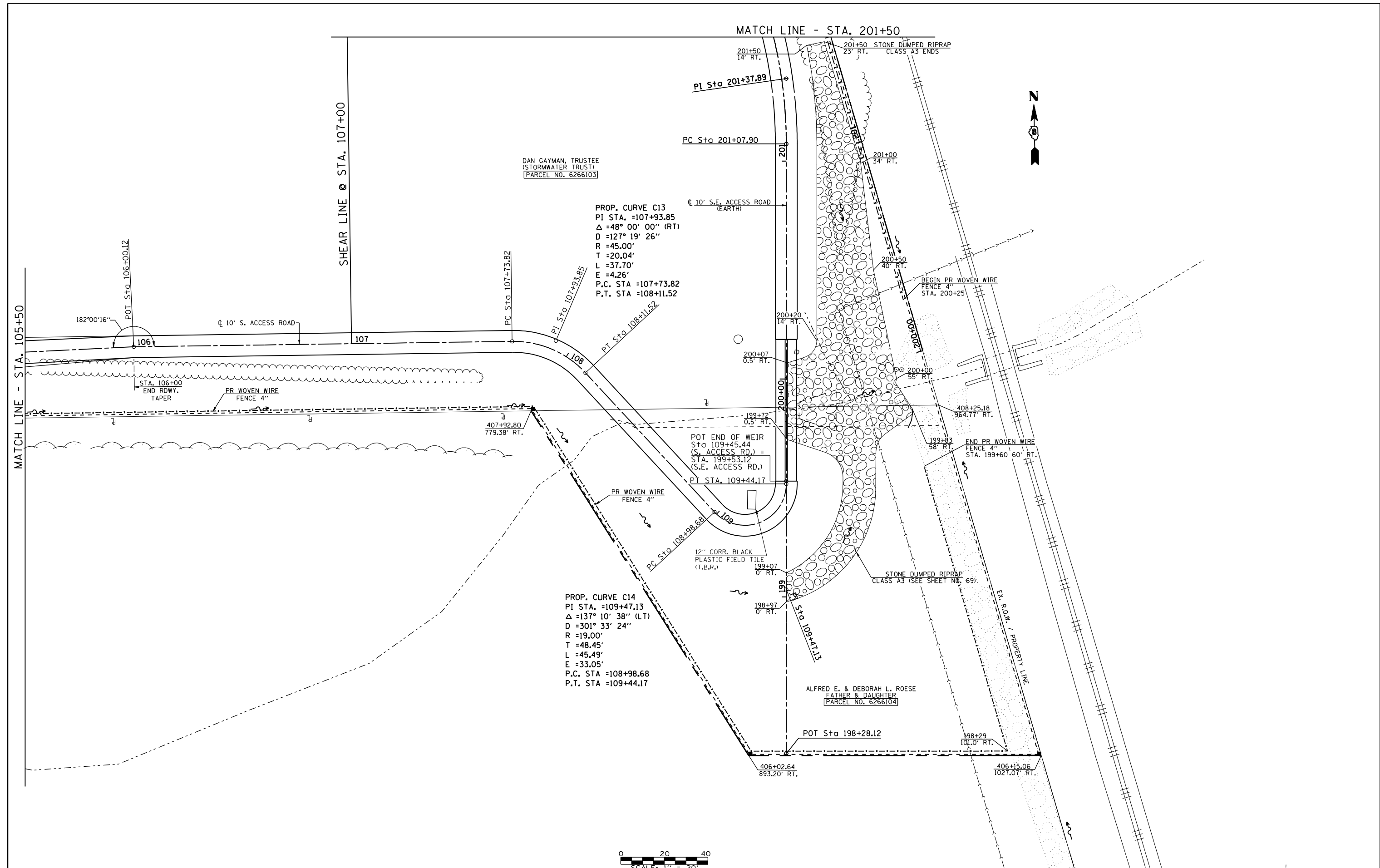
ALFRED E. ROESE &  
DEBORAH L. ROESE  
[PARCEL 6266104]

PROP. CURVE004  
PI STA. = 502+57.56  
Δ = 6° 49' 59" (RT)  
D = 4° 01' 28"  
R = 1,423.72'  
T = 85.00'  
L = 169.79'  
E = 2.53'  
P.C. STA = 501+72.56  
P.T. STA = 503+42.35



MATCH LINE - STA. 105+50

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>PLAN</b> <b>SOUTH ACCESS ROAD</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
e:\pwwork\pwwid001\LAUGHLINRL\0143507\0672402-sht-plan-deten.dgn	DRAWN -	REVISED -	8012					21(I-3)	SANGAMON	143	23	
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 72A02									
PLOT DATE = May-18-2009 03:16:40PM	DATE	REVISED -	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT							



FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
ca:\pwork\pwork\LAUGHLINRL\0143507\0672402-sht-plan-detention.dgn		DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / IN.		CHECKED -	REVISED -
PLOT DATE = Jun-02-2009 10:13:55AM		DATE -	REVISED -



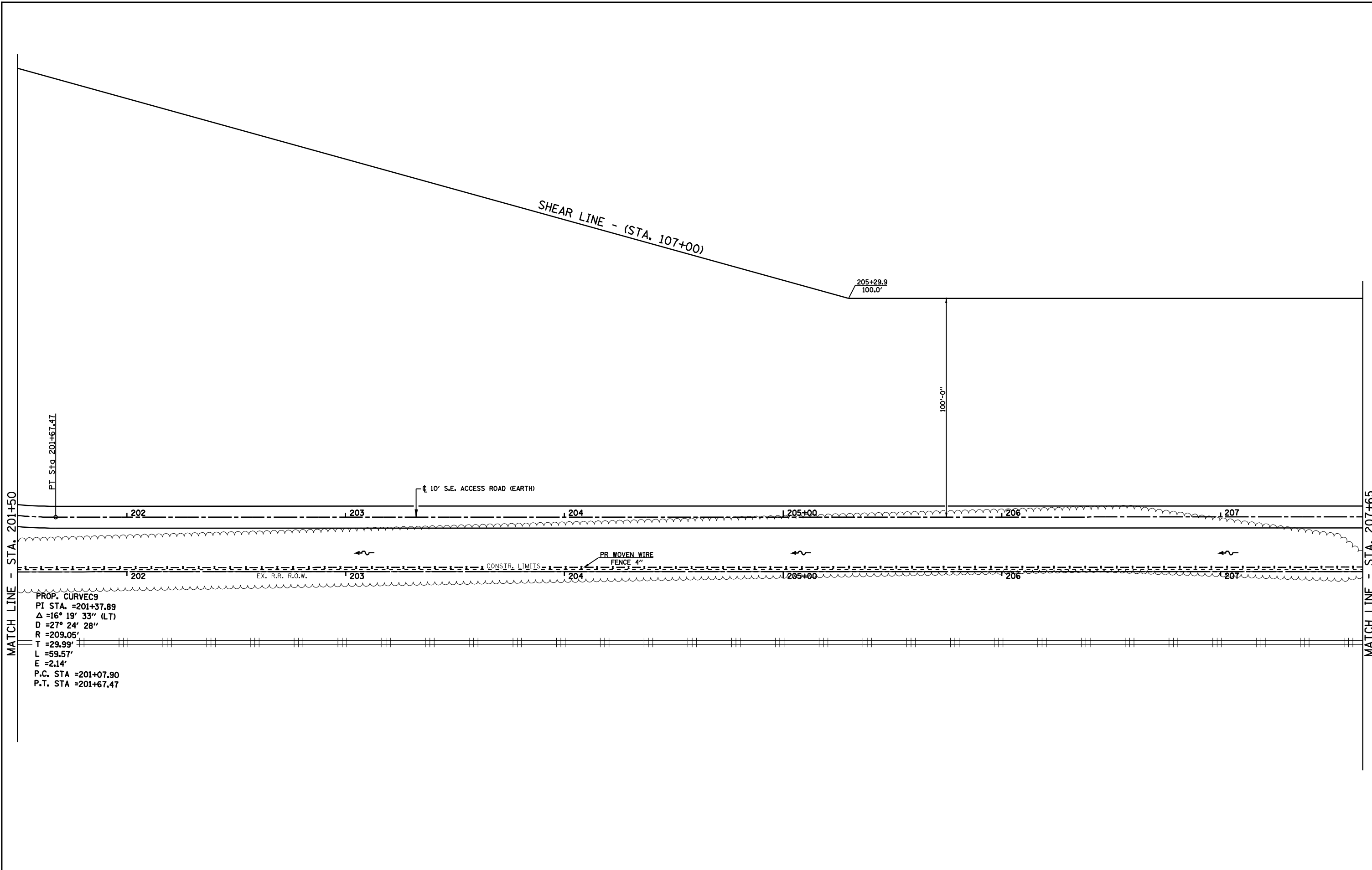
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL.  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

**PLAN**  
**SOUTH ACCESS ROAD**


SCALE: 1" = 20'    SHEET NO. 24 OF 147 SHEETS    STA. 105+50.00 TO STA. 109+42.20

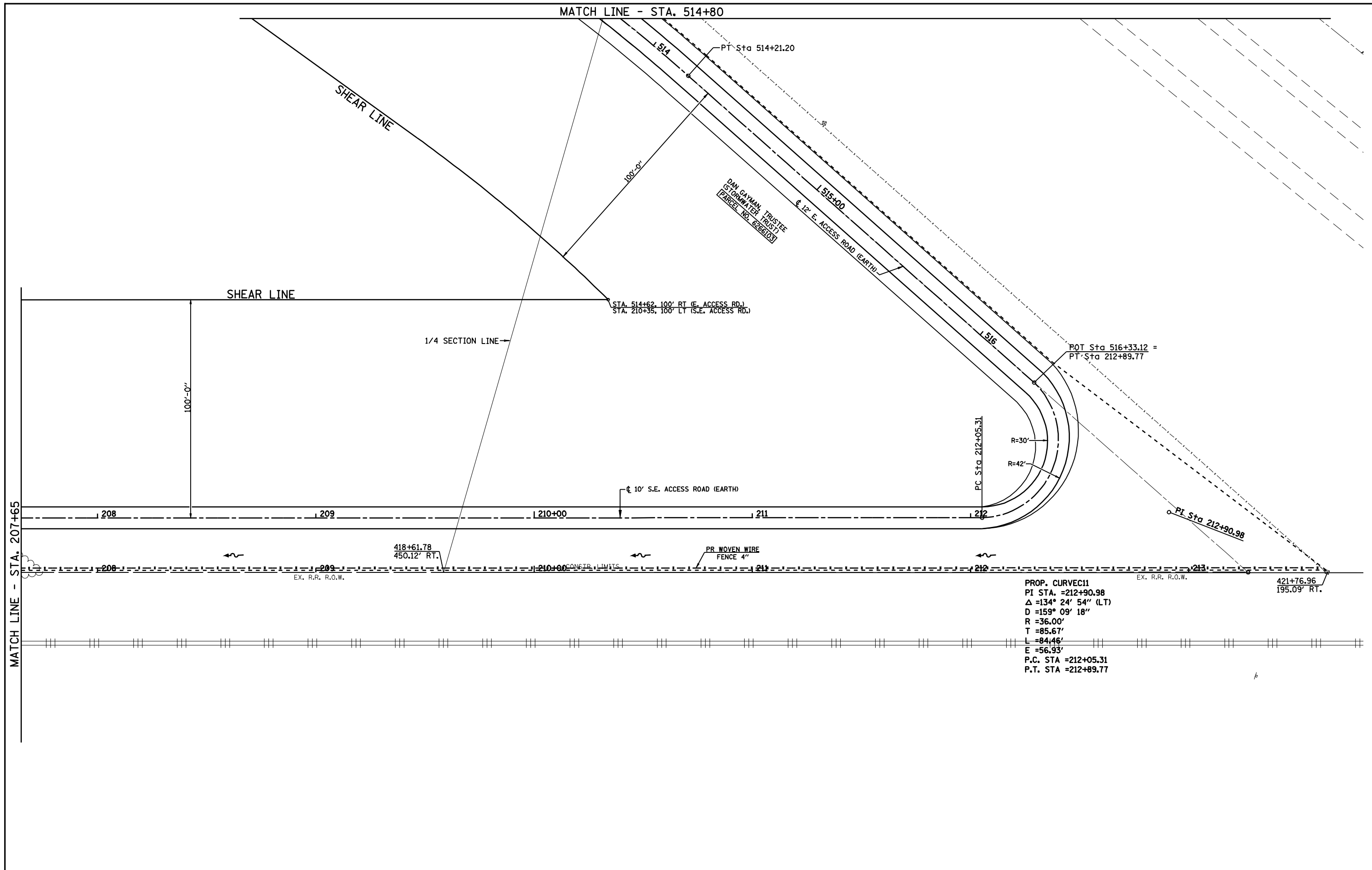
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(1-3)	SANGAMON	147	24
CONTRACT NO. 72A02				
FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT				





PROP. CURVES  
 PI STA. =201+37.89  
 $\Delta = 16^\circ 19' 33''$  (LT)  
 $D = 27^\circ 24' 28''$   
 $R = 209.05'$   
 $T = 29.99'$   
 $L = 59.57'$   
 $E = 2.14'$   
 P.C. STA =201+07.90  
 P.T. STA =201+67.47

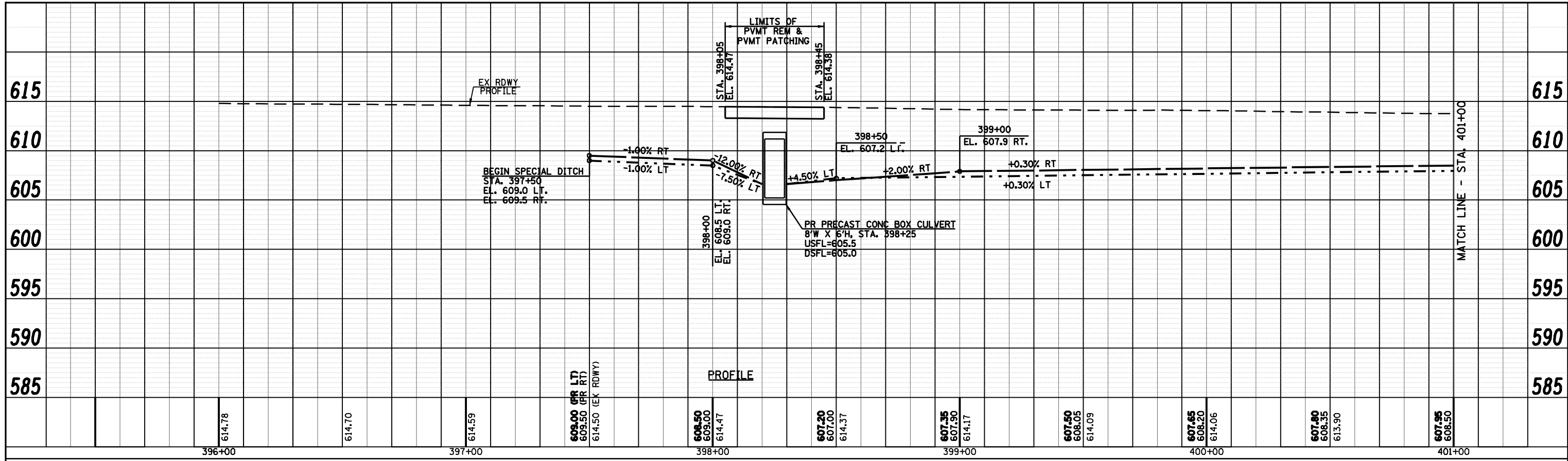
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>PLAN</b> <b>S.E. ACCESS ROAD</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pwwork\pwwid\LAUGHLINRL\0143507\0672402-sht-plan-detention.dgn	DRAWN -	REVISED -	8012				21(I-3)	SANGAMON	147	25	
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 72A02								
PLOT DATE = May-18-2009 03:16:45PM	DATE -	REVISED -	SCALE: 1" = 20'		SHEET NO. 25 OF 147 SHEETS	STA. 201+50.00 TO STA. 207+65.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



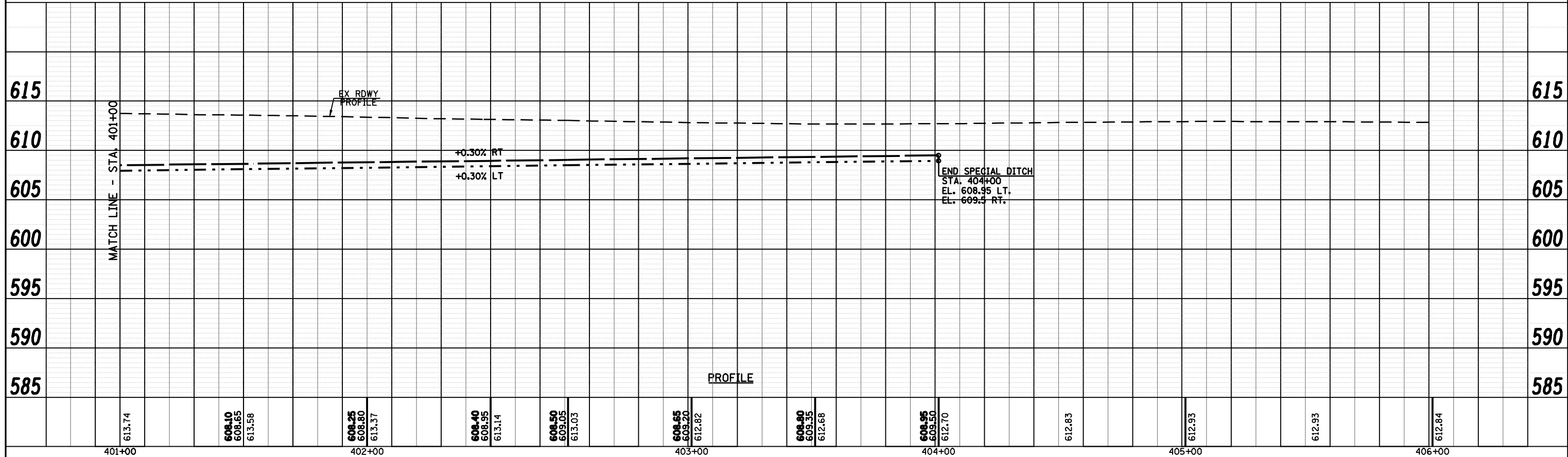
PROP. CURVEC11  
 PI STA. =212+90.98  
 $\Delta$  =134° 24' 54" (LT)  
 D =159° 09' 18"  
 R =36.00'  
 T =85.67'  
 L =84.46'  
 E =56.93'  
 P.C. STA =212+05.31  
 P.T. STA =212+89.77

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>PLAN</b> <b>S.E. ACCESS ROAD</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
e:\pwwork\pwwid\LAUGHLINRL\0143507\0672402-sht-plan-deten\ten.dgn	DRAWN -	REVISED -	8012			21(I-3)	SANGAMON	147	26	
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 72A02							
PLOT DATE = May-18-2009 03:17:30PM	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
SCALE: 1" = 20'		SHEET NO. 26 OF 147 SHEETS		STA. 207+65.00 TO STA. 212+89.77						

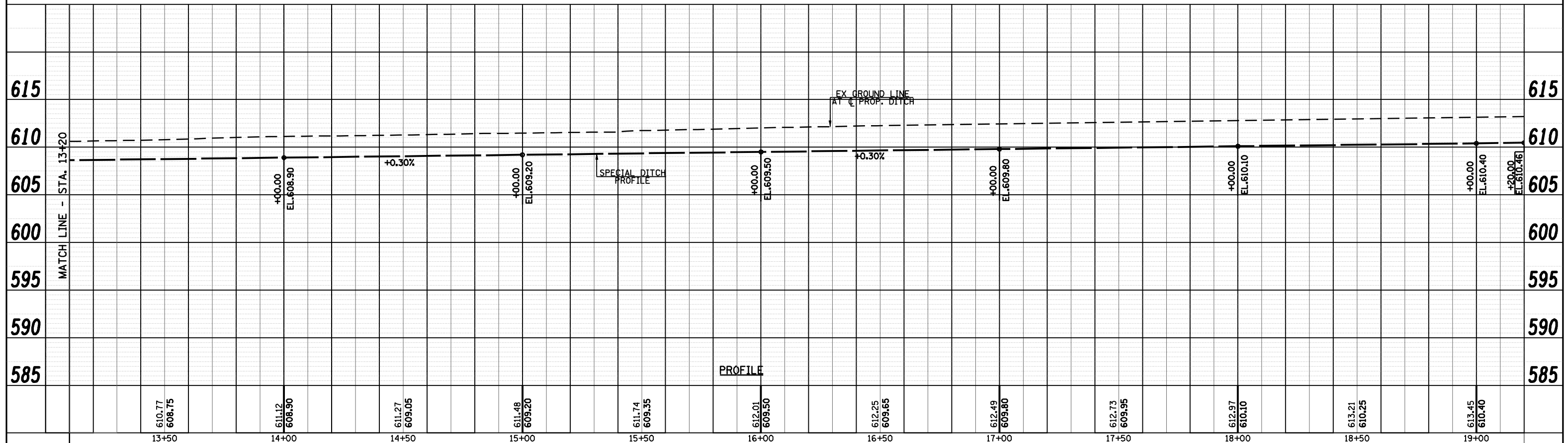
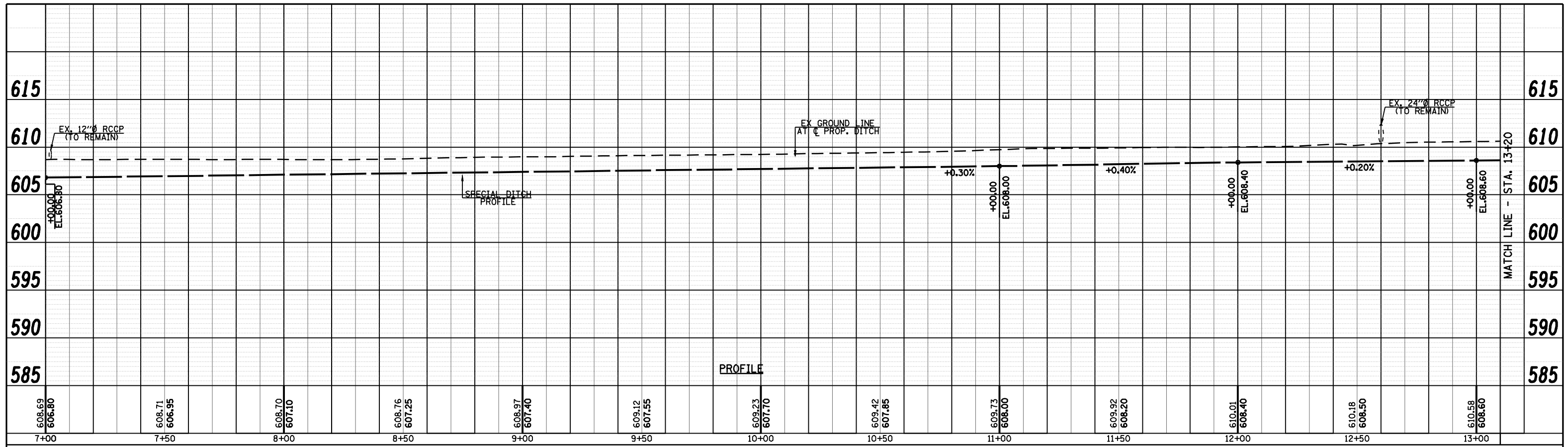
PLAN	SURVEYED	BY	DATE
	ALIGNED		
	CHECKED		
	NO. _____		



PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
	STRUCTURE NOTATION OK'D		
	NO. _____		



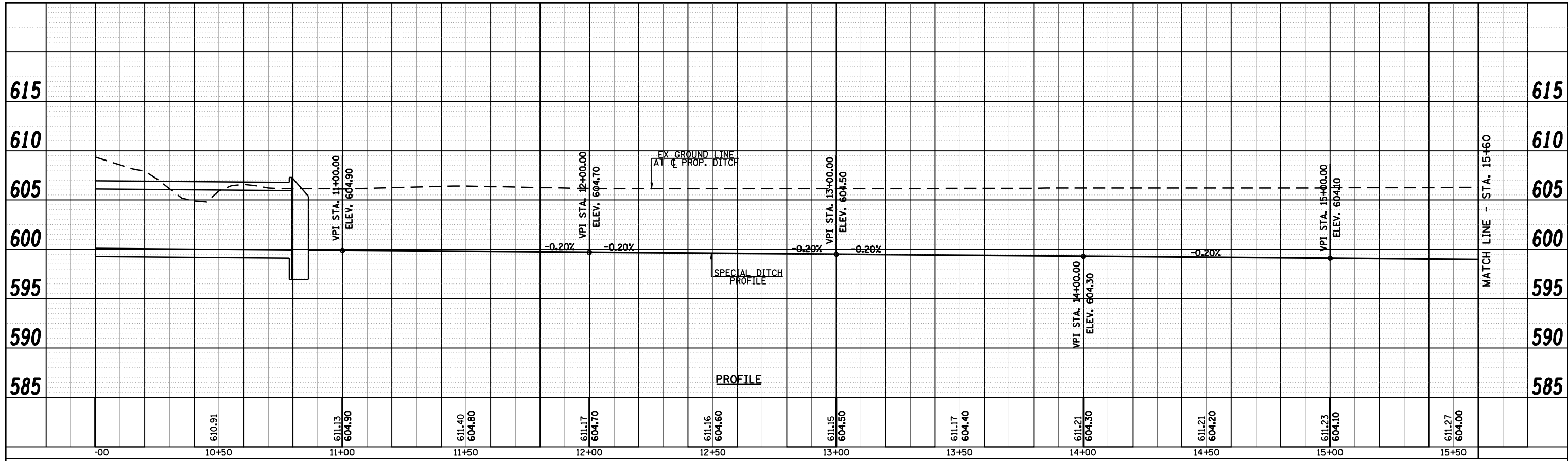
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>PROFILE</b> <b>(WABASH AVENUE)</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\LAUGHLINR1\0143507\0672\02-shit-profile-wabash.dwg	DRAWN -	REVISED -	8012				21(I-3)	SANGAMON	147	27	
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. T2A02								
PLOT DATE = May-18-2009 03:17:32PM	DATE -	REVISED -	SCALE: 1" = 20'		SHEET NO. 27 OF 147 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			



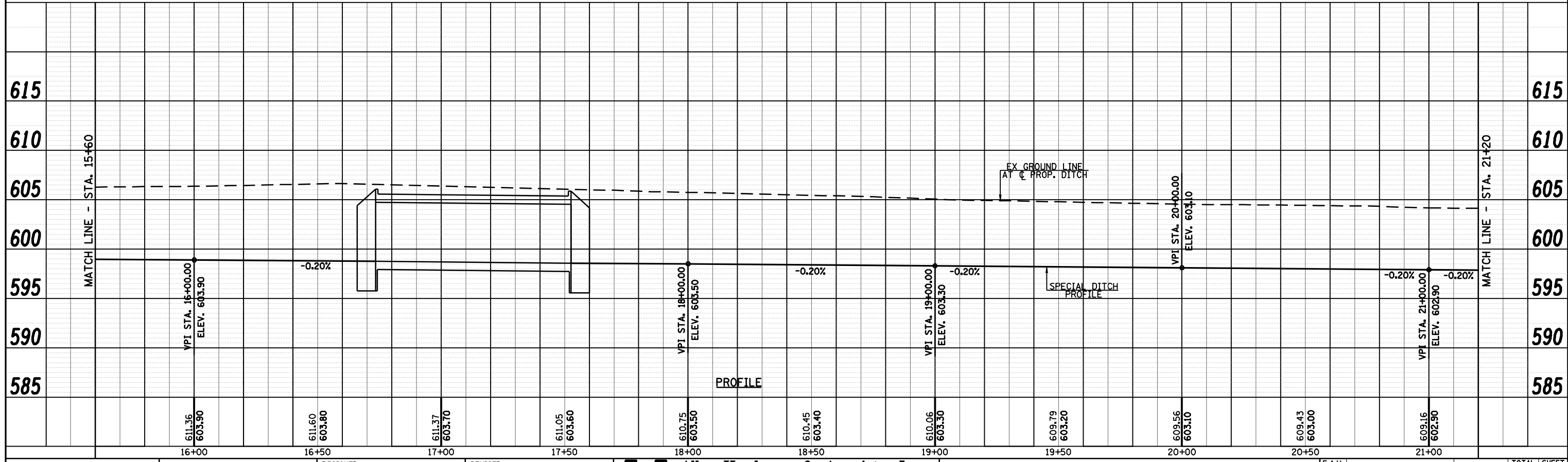
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>PROFILE</b> <b>(DITCH - RAMP A)</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et\pwork\PWIDOT\LAUGHLINRL\00143507\0672A02-ahs-prof	le-ramp a ditch.dgn	DRAWN -	REVISED -				8012	21(I-3)	SANGAMON	147	28
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	REVISED -		CONTRACT NO. 72A02						
PLOT DATE = May-18-2009 03:17:34PM	DATE -	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT						

SCALE: 1" = 20' SHEET NO. 28 OF 147 SHEETS STA. 7+00.00 TO STA. 19+20.00

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



PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
	STRUCTURE		
	NOTATMS CHKD		
NOTE BOOK NO.			



FILE NAME = c:\pwwork\pwwid001\LAUGHLIN\ld0143507\062\2002-shr-profile-waterway 1.dgn

USER NAME = laughtlrr1  
 DRAWN -  
 CHECKED -  
 DATE -

DESIGNED -  
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 REVISIONS:  
 REVISIONS:



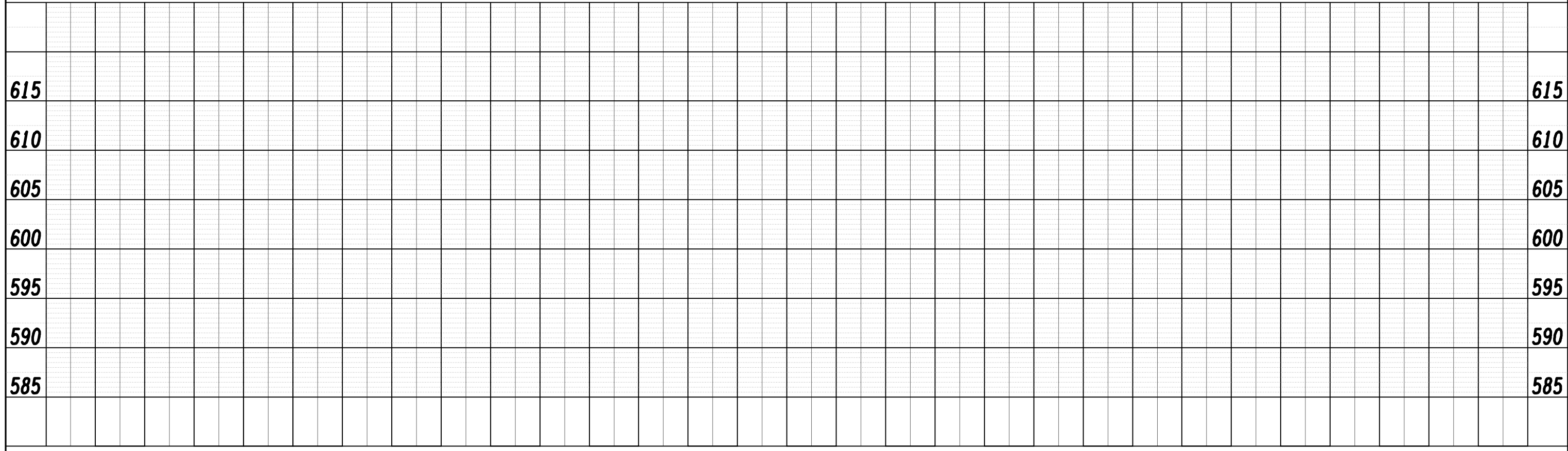
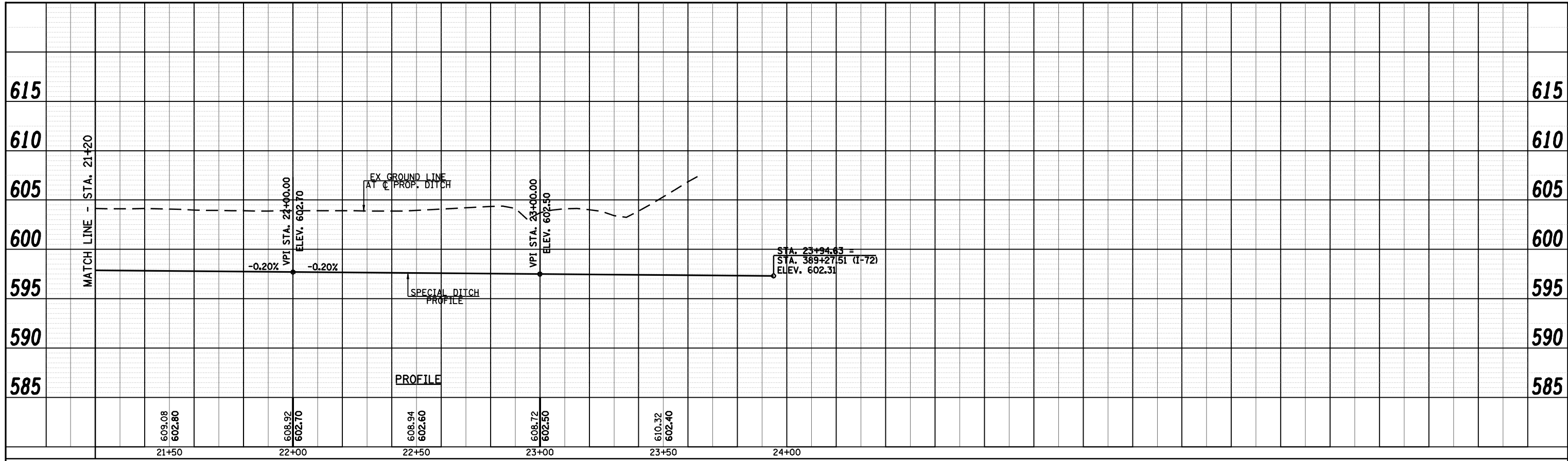
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

**PROFILE (WATERWAY NO. 1)**  
 SCALE: 1" = 20'  
 SHEET NO. 29 OF 147 SHEETS  
 STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	29
CONTRACT NO. 72A02				
ILLINOIS FED. AID PROJECT				

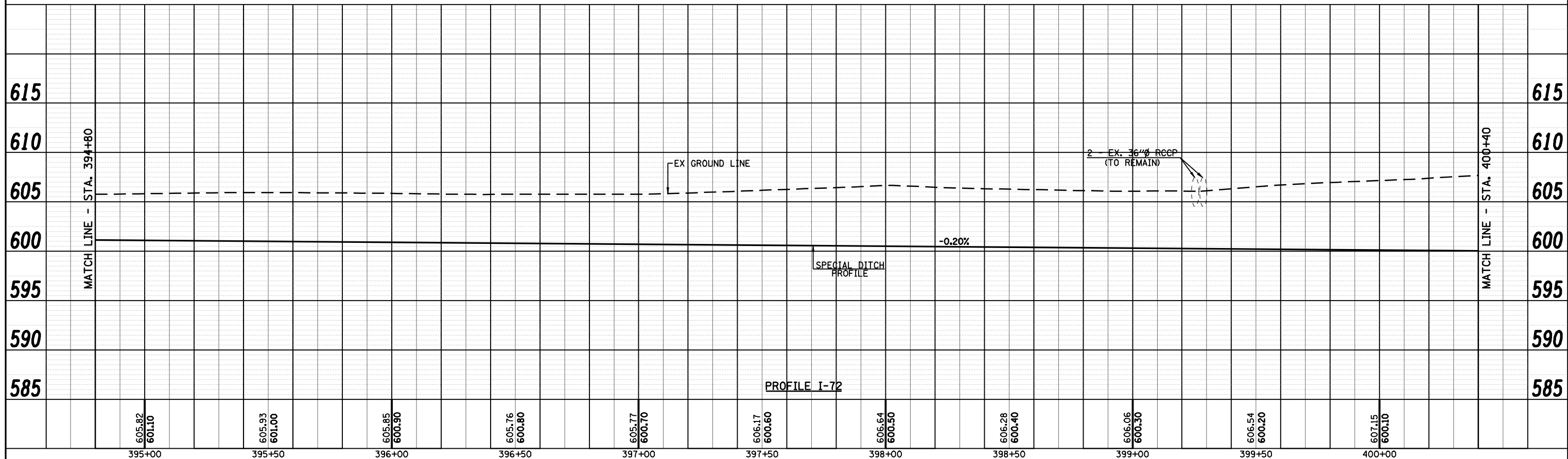
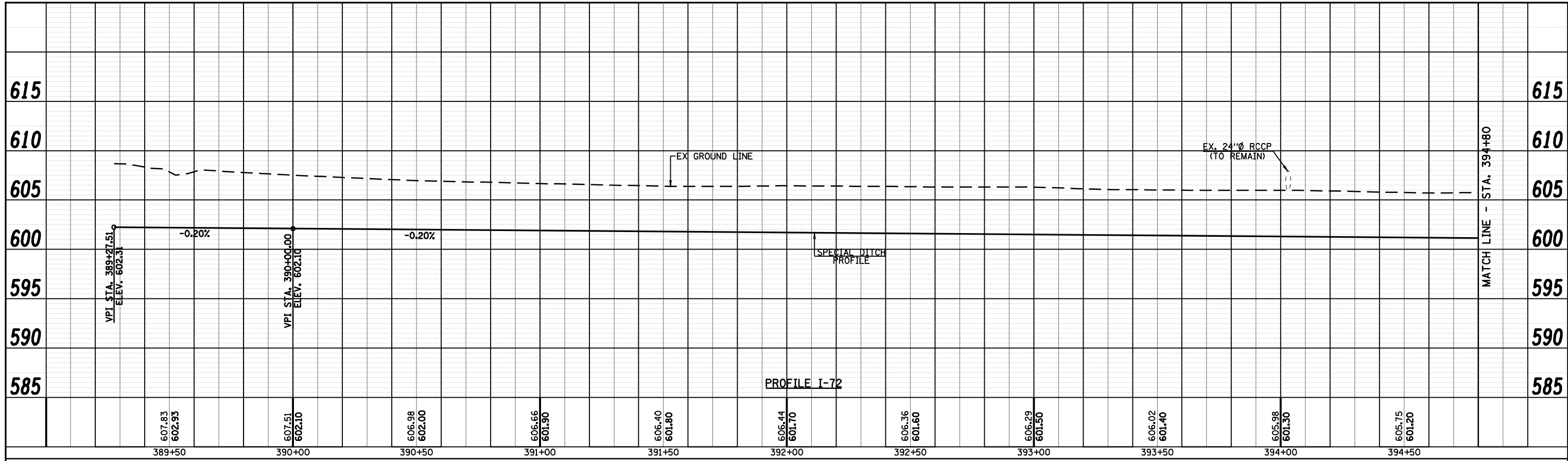
PLAN SURVEYED BY DATE  
 PLOTTED BY DATE  
 NOTE BOOK NO. CHECKED BY DATE  
 CAD FILE NAME

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



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO.		

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



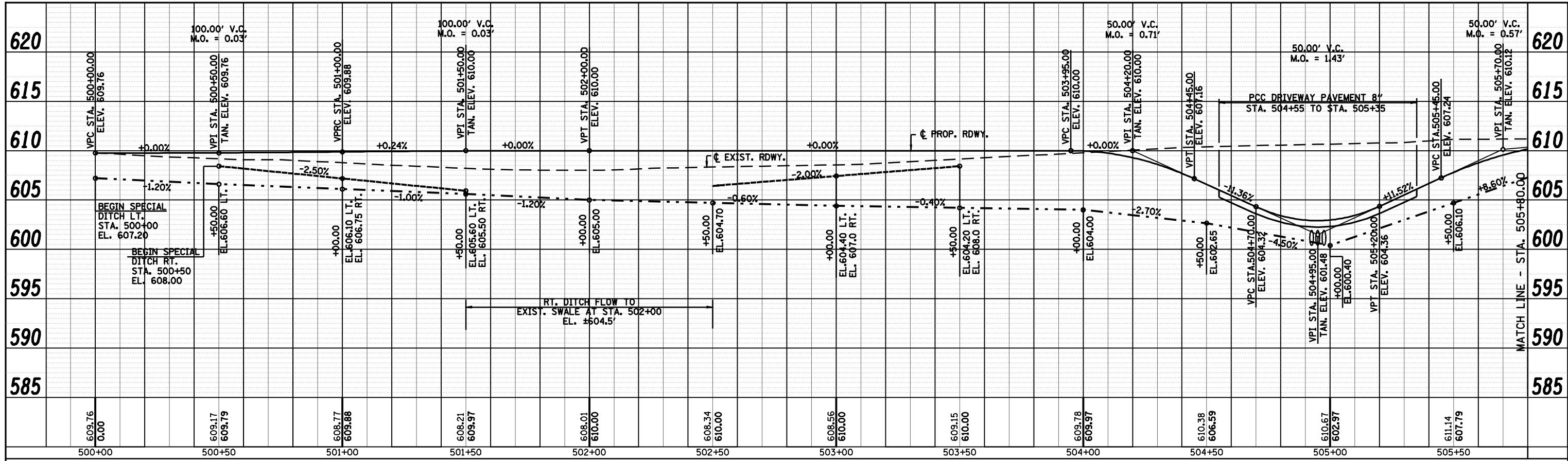
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>PROFILE</b> <b>(WATERWAY NO. 1 &amp; I-72)</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwid007\LAUGHLINR1\0143507\0672\02-shit-profile-waterway 1-172.dgn	DRAWN -	REVISED -	8012					21(I-3)	SANGAMON	147	31	
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 72A02									
PLOT DATE = May-18-2009 03:17:41PM	DATE -	REVISED -	ILLINOIS FED. AID PROJECT									

SCALE: 1" = 20' SHEET NO. 31 OF 147 SHEETS STA. TO STA.

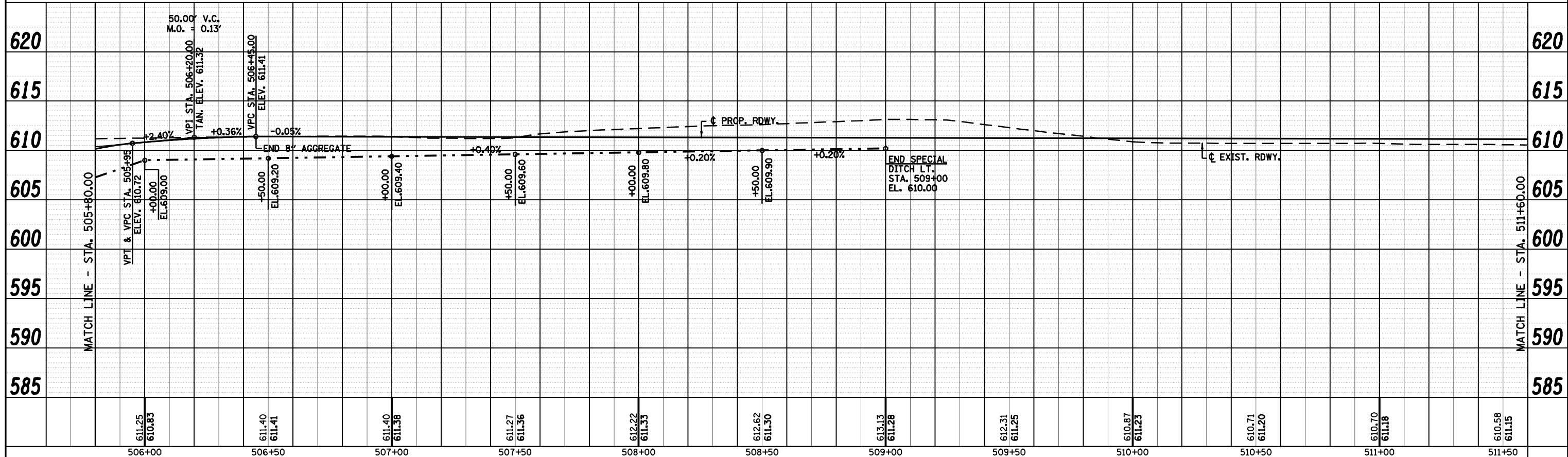




PLAN	SUBMITTED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		



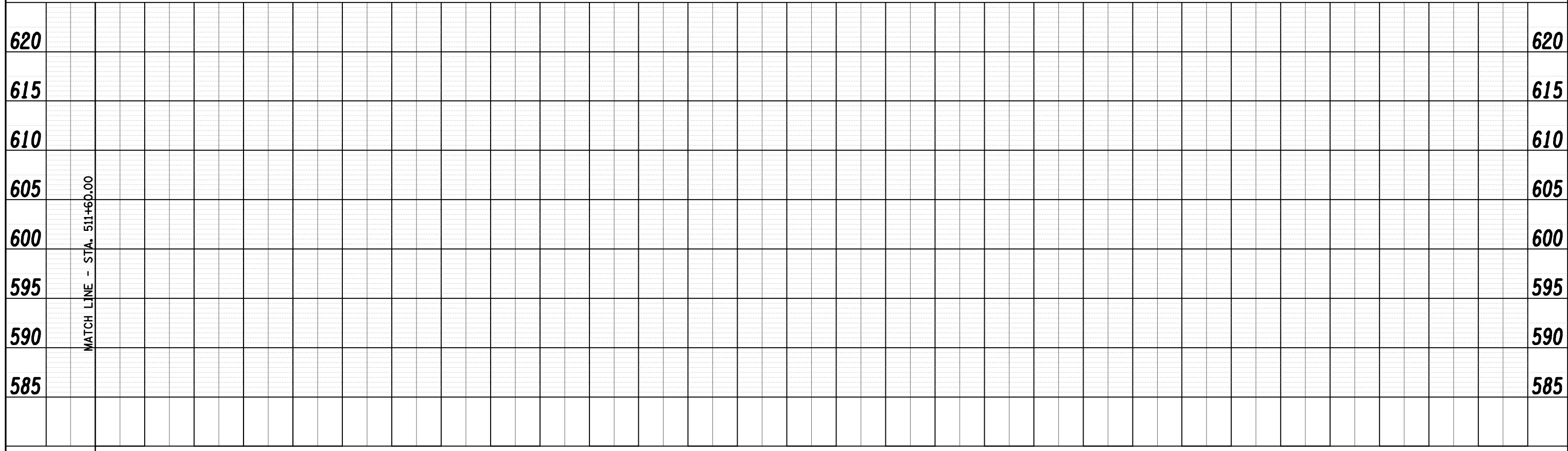
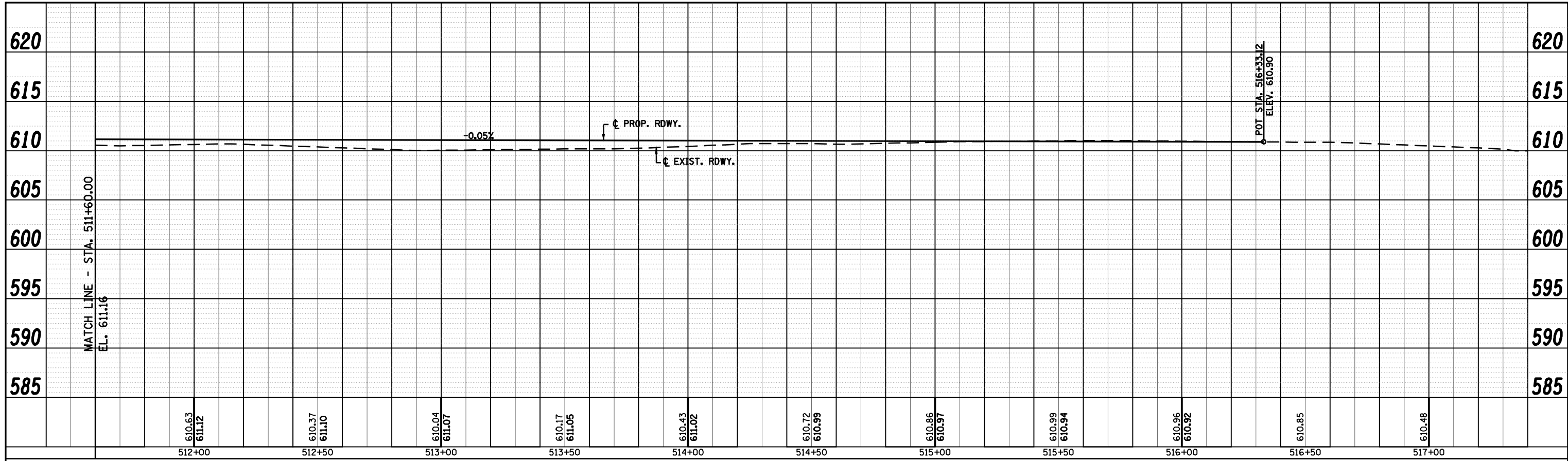
PROFILE	SUBMITTED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE CHECKED		
	NOTE BOOK NO.		
	STRUCTURE NOTATIONS CHKD		



FILE NAME =	USER NAME = laughlir1	DESIGNED -	REVISED -	<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>ROADWAY PROFILE</b> <b>(EAST ACCESS ROAD)</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwid001\LAUGHLIN\RL\0143507\0672A02-shit-profile-east access.dgn	DRAWN -	REVISED -	8012				21(I-3)	SANGAMON	147	33	
PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 72A02								
PLOT DATE = May-18-2009 03:17:45PM	DATE -	REVISED -	SCALE: 1" = 20'		SHEET NO. 147 OF 33 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			

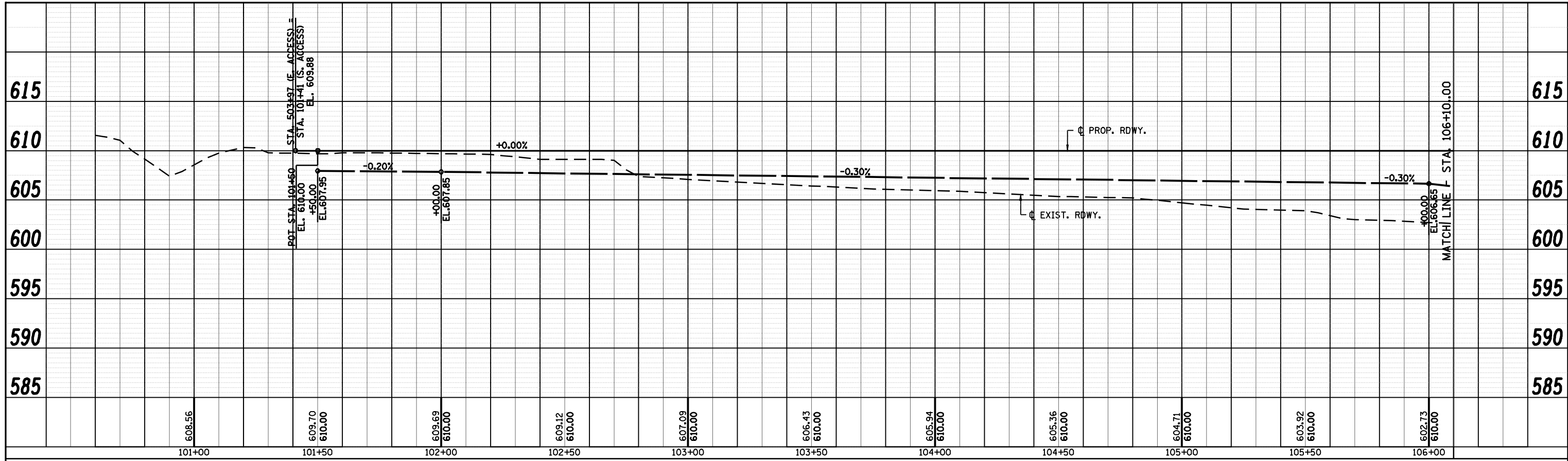
PLAN	SUPERVIEWED	BY	DATE
	PLOTTED		
	ALIGNMENT		
	CHECKED		
	NO. _____		
	CADD FILE NAME		

PROFILE	SUPERVIEWED	BY	DATE
	PLOTTED		
	GRADES		
	CHECKED		
	NO. _____		
	STRUCTURE		
	NOTATMS		
	CHKD		

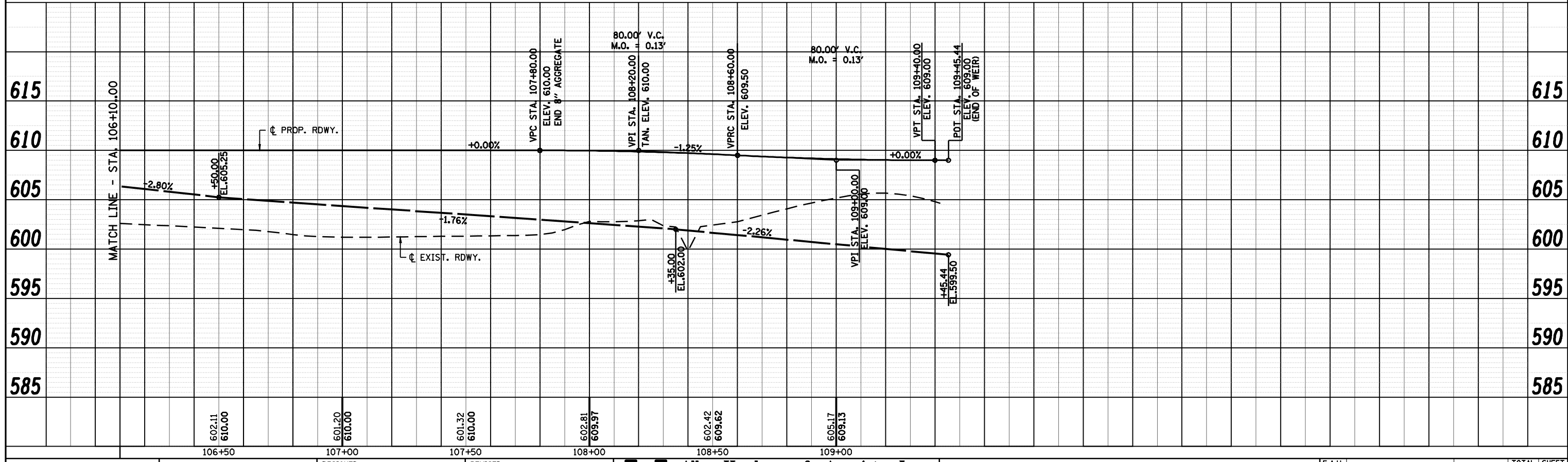


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PLOT SCALE = 40.0000' / IN.	CHECKED -	REVISED -	SCALE: 1" = 20'				SHEET NO. 34 OF 147 SHEETS	STA. TO STA.	CONTRACT NO. 72A02		
PLOT DATE = May-18-2009 03:17:48PM	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								

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



PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS OK'D		
	NO.		



FILE NAME = c:\pwwork\pwwid007\LAUGHLIN\rd0143507\0672A02-sh1-profile-south access.dgn

USER NAME = laughlinr1  
 PLOT SCALE = 40.0000' / IN.  
 PLOT DATE = May-18-2009 03:17:50PM

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

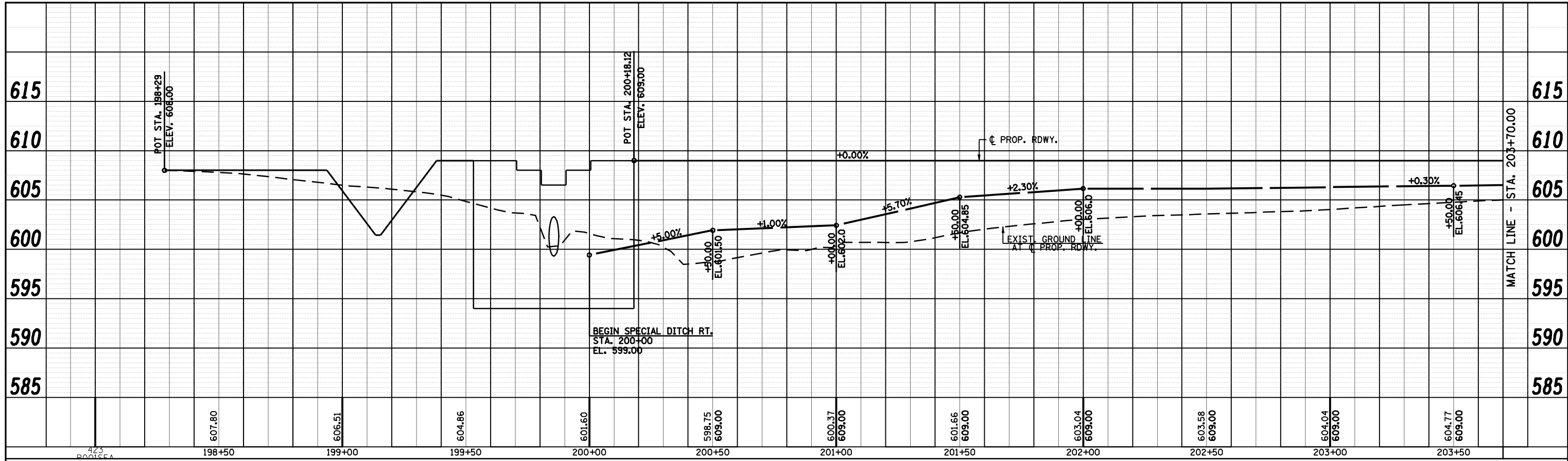


**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

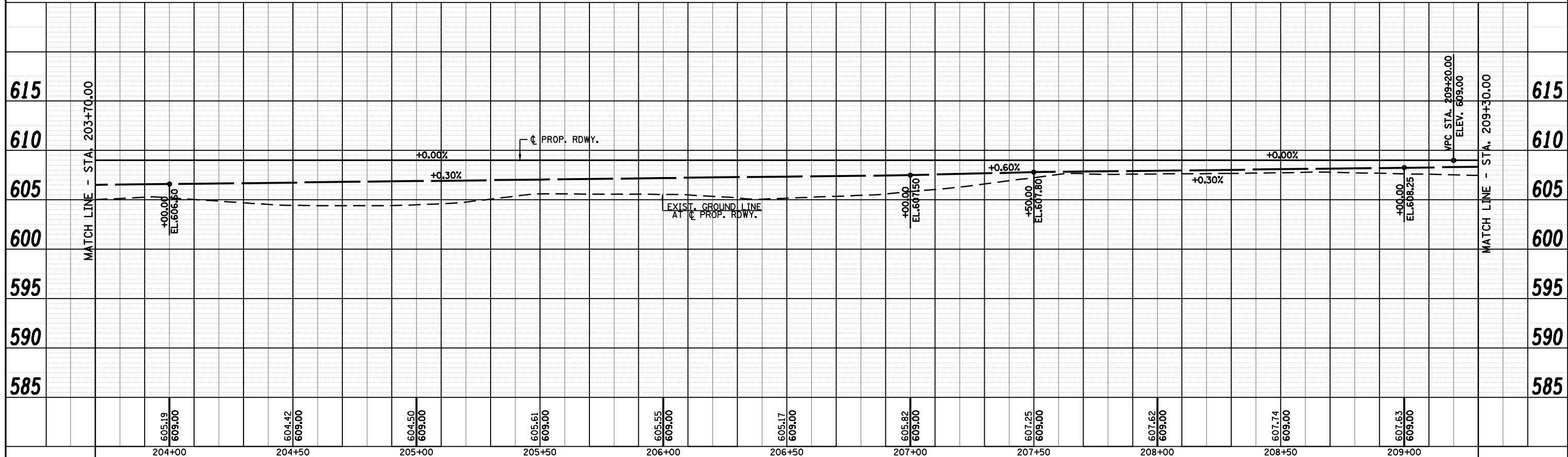
**ROADWAY PROFILE**  
**(SOUTH ACCESS ROAD)**  
 SCALE: 1" = 20'  
 SHEET NO. 35 OF 147 SHEETS  
 STA. 101+41.00 TO STA. 109+45.44

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	35
				CONTRACT NO. 72A02
ILLINOIS FED. AID PROJECT				

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



PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS OK'D		
NOTE BOOK NO.			



FILE NAME = c:\pwork\pwork\LAUGHLIN\ld0143507\062202-shr-profile-southeast access.dgn

USER NAME = laughlinr1  
 DRAWN -  
 CHECKED -  
 DATE -

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -



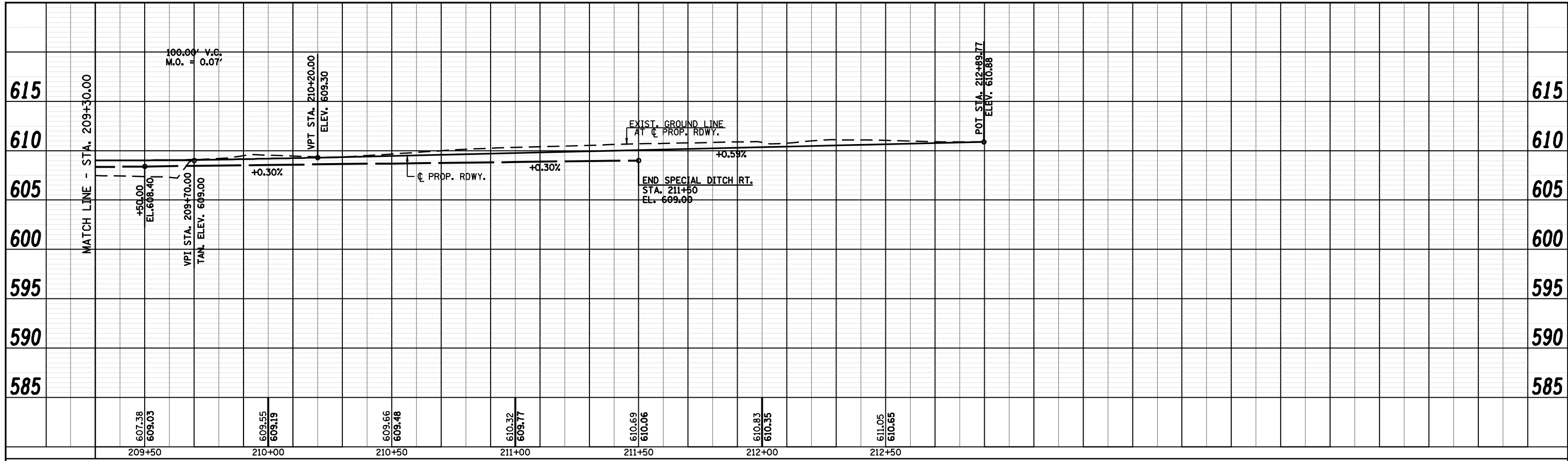
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

**ROADWAY PROFILE**  
**(SOUTHEAST ACCESS ROAD)**  
 SCALE: 1" = 20'  
 SHEET NO. 36 OF 147 SHEETS  
 STA. 198+29.00 TO STA. 209+30.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	36
CONTRACT NO. 72A02			ILLINOIS FED. AID PROJECT	

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

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



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USER NAME = laughlinr1  
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 PLOT DATE = May-18-2009 03:17:54PM

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

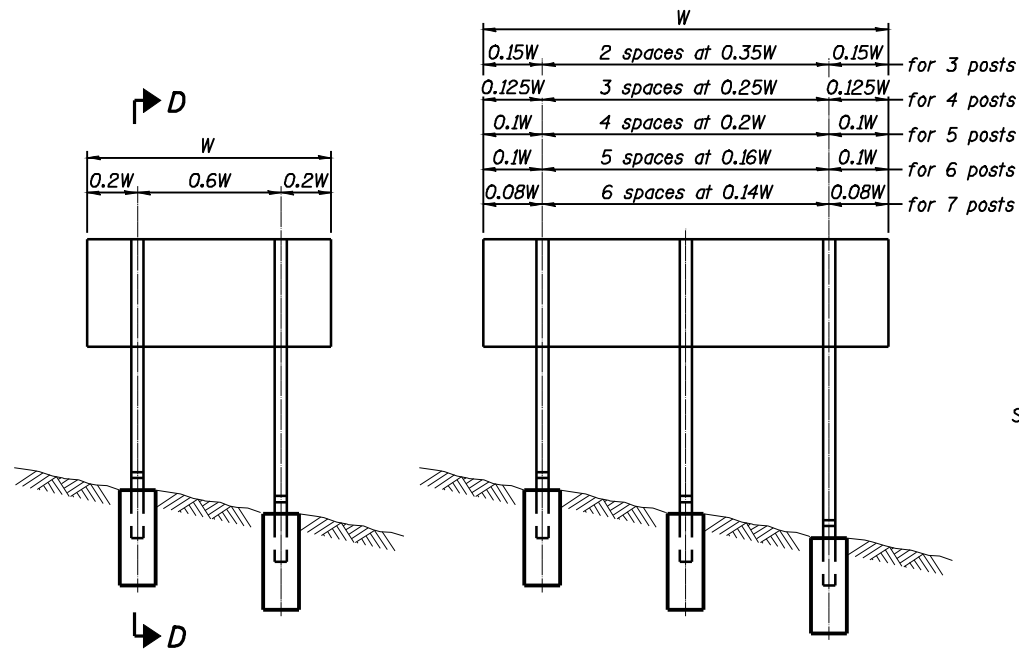
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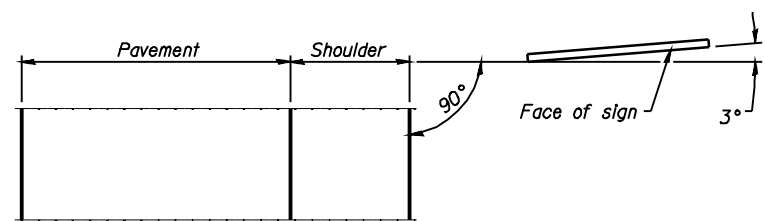
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

**ROADWAY PROFILE**  
**(SOUTHEAST ACCESS ROAD)**  
 SCALE: 1" = 20'  
 SHEET NO. 37 OF 147 SHEETS  
 STA. 209+30.00 TO STA. 212+89.77

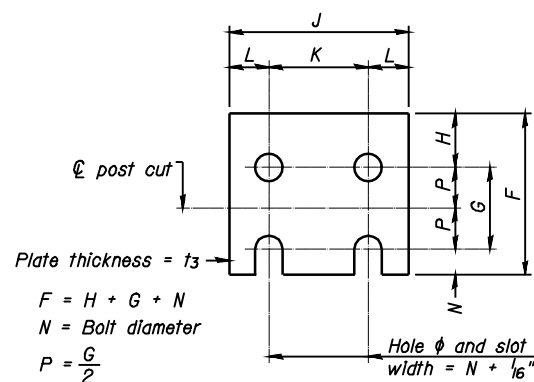
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	37
CONTRACT NO. 72A02				
ILLINOIS FED. AID PROJECT				



**ELEVATION**

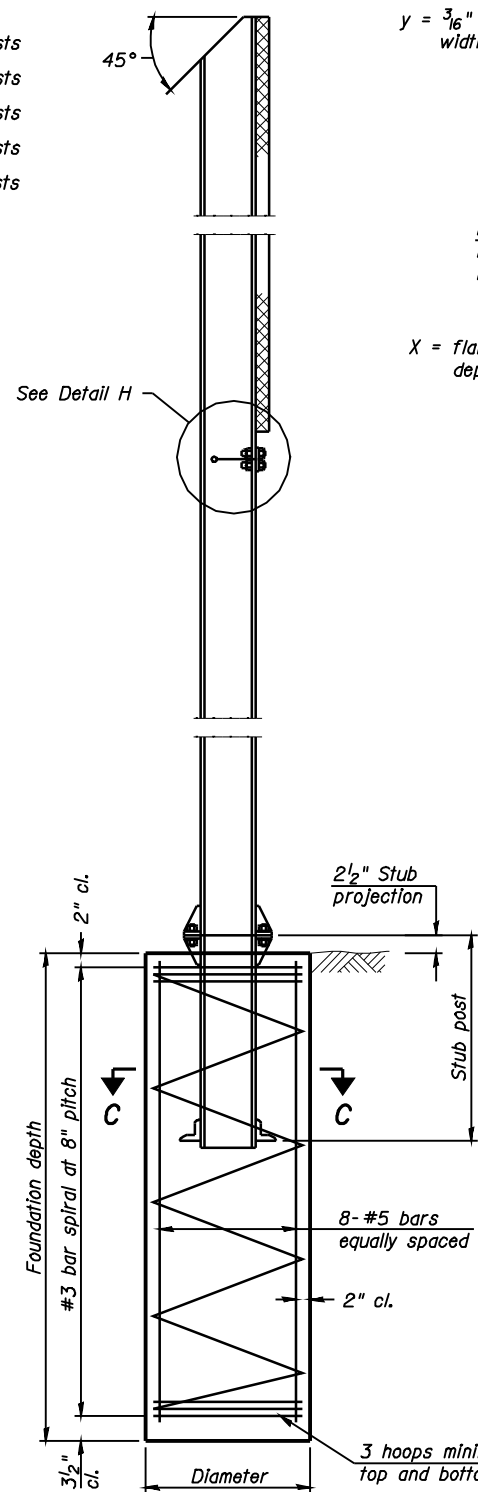


**LOCATION SKETCH**

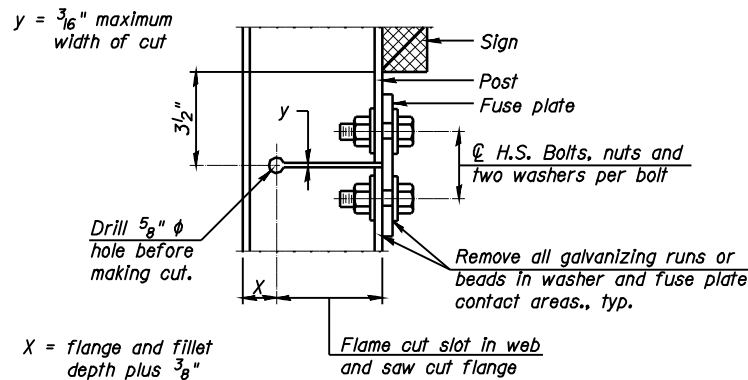


**FUSE PLATE DETAIL**  
(Install with notches down.)

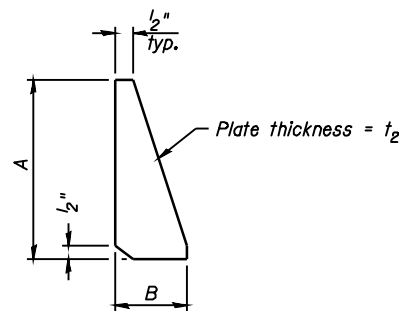
FUSE PLATE DATA		
N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"
1 1/4"	3 1/2"	1 7/8"



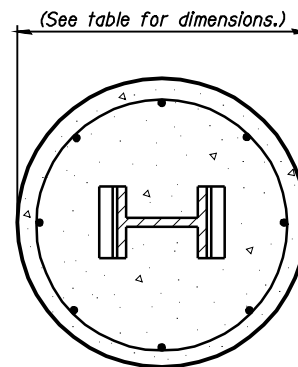
**SECTION D-D**



**DETAIL H**



**STIFFENER PLATE DETAIL**



**SECTION C-C**

**GENERAL NOTES**

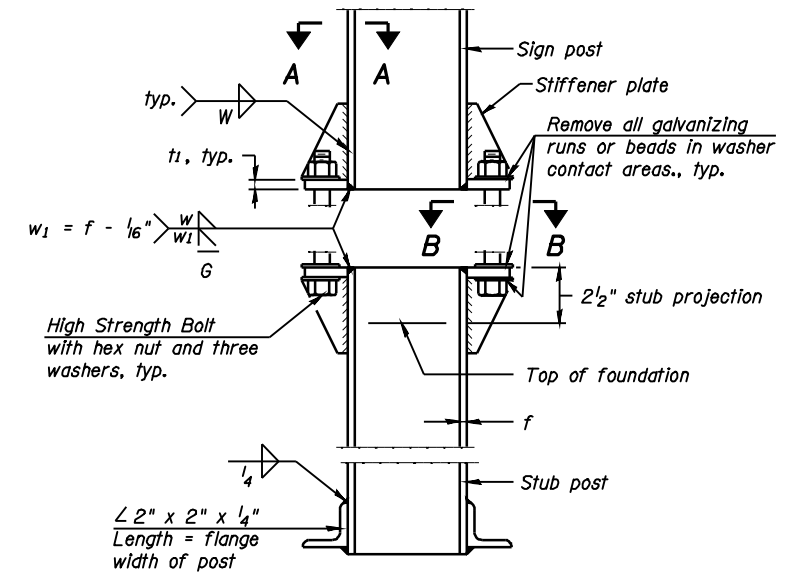
Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

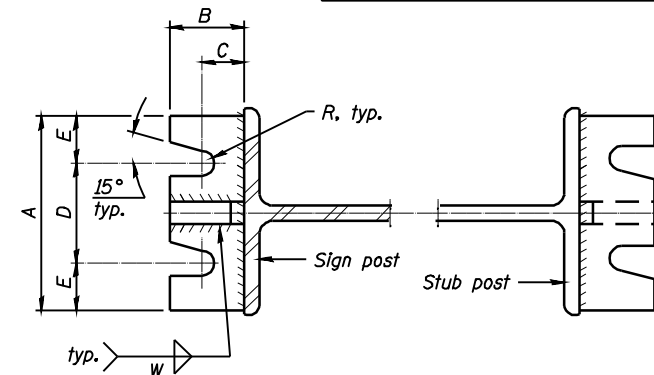
DESIGN STRESSES:  
 Structural steel - 20,000 p.s.i.  
 Reinforcing steel - 20,000 p.s.i.  
 Concrete - 1,400 p.s.i.  
 Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

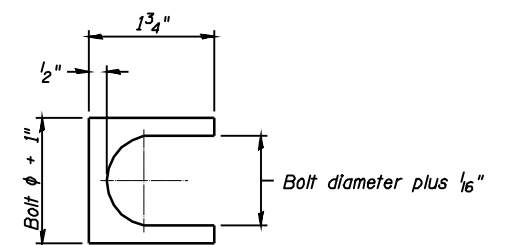


**ELEVATION SIGN POST & STUB POST**



**SECTION A-A**

**SECTION B-B**



**SHIM DETAIL**

Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

**RELOCATED SIGN DETAILS**  
**STA. 395+05**  
**SANGAMON COUNTY**

NUMBER	REVISION	DATE



**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
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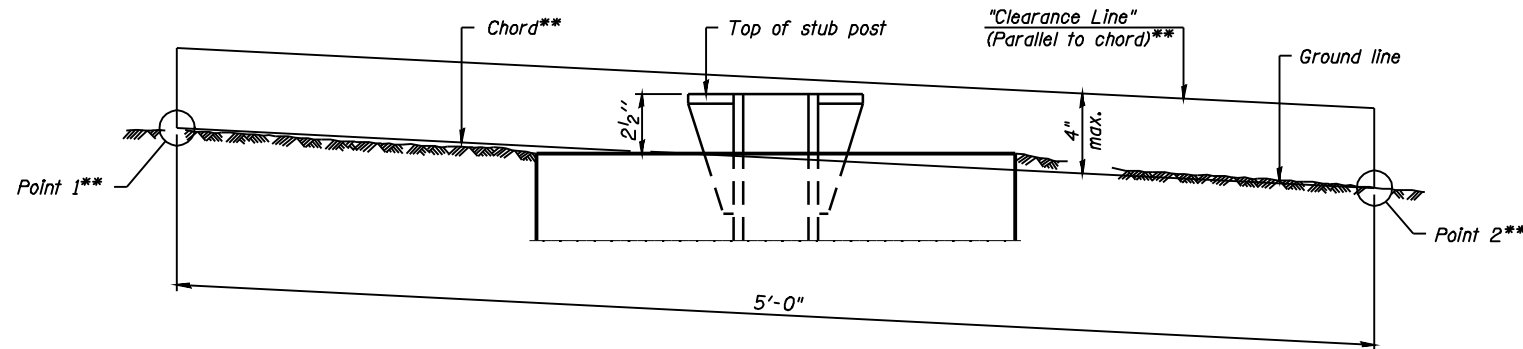
SHEET NO. 1  
 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	38
CONTRACT NO. 72A02				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

POST	CONCRETE FOUNDATION TABLE							POST TO STUB POST CONNECTION DATA								FUSE PLATE DATA							
	Foundation			Reinforcement			Stub Post Length	Bolt Size	A	B	C	D	E	t <sub>1</sub>	t <sub>2</sub>	R	W	J	K	L	t <sub>3</sub>		
	Diameter	* Minimum Depth	Concrete (cu. yds.) ①	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length																lbs. ②	
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	5/8" x 3 1/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/2"	1/4"	4"	2 1/4"	7/8"	1/4"	
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	5/8" x 3 1/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/2"	1/4"	6"	3 1/2"	1 1/4"	3/8"	
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 1/2"	5/16"	5 1/4"	2 3/4"	1 1/4"	3/8"	
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 1/2"	5/16"	5 3/4"	2 3/4"	1 1/2"	1/2"	
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 1/2"	5/32"	3/8"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 1/2"	5/32"	3/8"	6 1/2"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	1 1/2"	5/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	1 1/2"	5/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	1 1/2"	5/32"	3/8"	7"	3 1/2"	1 3/4"	1/2"

\*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE																					
	Sign Height																					
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"	
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	---	---	---	---	---	---	---	---	---	---	---	---	
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	---	---	---	---	---	---	---	---	---	---	---	
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	---	---	---	---	---	---	---	---	
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	---	---	---	---	---	---	---	
W12x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	---	---	---	---	---	---	
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	---	---	---	---	
W14x38	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"
W16x45	---	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"



**ELEVATION  
GROUND LINE & STUB POST**

\*\* For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

- ① Quantity includes all concrete necessary for one foundation.
- ② Includes reinforcement bars and spiral hooping for one foundation.

**WIDE FLANGE BREAKAWAY SIGN POST SCHEDULE**

Sta.	Offset	Post	Stub Post 1	Sign Post 1	Stub Post 2	Sign Post 2	Structural Steel	Concrete	Reinforcement
			Ft.	Ft.	Ft.	Ft.	Pound	Cu. Yd.	Pound
395+05	106' Lt.	W16x45	3.5	30.8	3.5	24.9	2800	4.5	260

NUMBER	REVISION	DATE

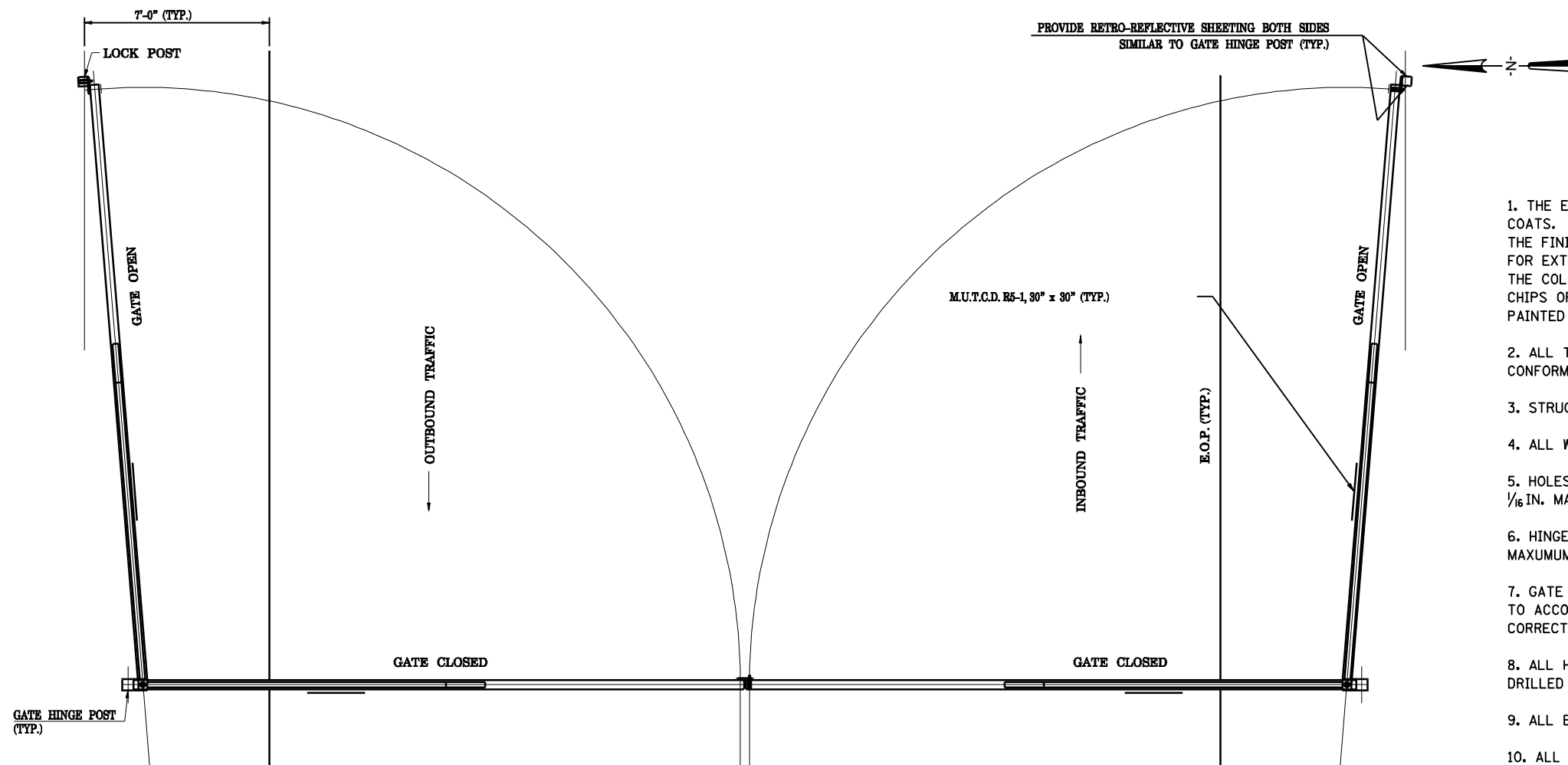
**RELOCATED SIGN DETAILS  
STA. 395+05  
SANGAMON COUNTY**



**Allen Henderson & Associates, Inc.**  
Civil and Structural Engineers Springfield, IL  
62703 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

SHEET NO. 2  
2 SHEETS

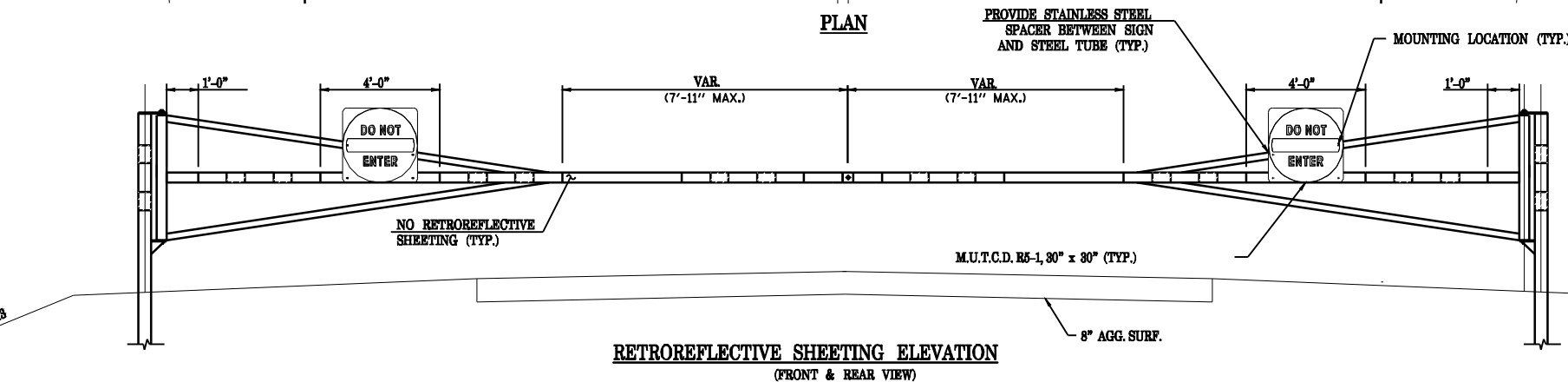
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	39
CONTRACT NO. 72A02				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**GENERAL NOTES**

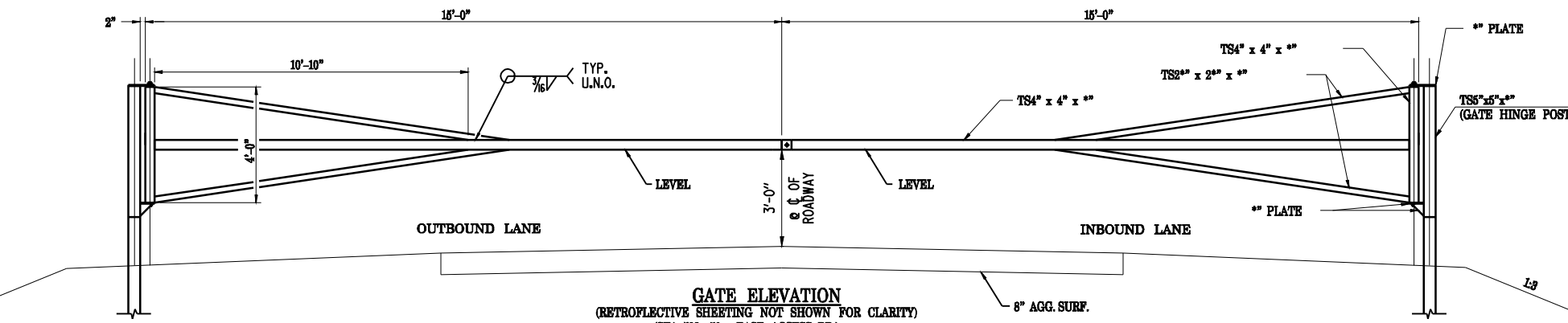
1. THE ENTRANCE GATE SHALL BE PAINTED WITH ONE PRIMER COAT AND TWO FINISH COATS. THE PRIMER SHALL BE AN ORGANIC, ZINC RICH, RUST INHIBITING PRIMER. THE FINISH COATS SHALL BE A MINERAL SPIRIT REDUCED FINISHED COAT INTENDED FOR EXTERIOR APPLICATIONS. THE COLOR SHALL MATCH EXISTING FACILITIES. CONTRACTOR SHALL SUBMIT PAINT CHIPS OF FINAL COLOR FOR APPROVAL. ALL EDGES OF HOLES SHALL BE PRIMED AND PAINTED PRIOR TO INSTALLING THE BOLTS.
2. ALL TUBE MEMBERS (TS) SHALL BE COLD FORMED WELDED STRUCTURAL STEEL CONFORMING TO THE LATEST ASTM A500 GRADE B (46 KSI).
3. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST ASTM A36.
4. ALL WELDS SHALL BE IN ACCORDANCE WITH AWS D1.1 USING E70 ELECTRODES.
5. HOLES IN THE STRUCTURAL STEEL AND TUBE MEMBERS SHALL BE 1/16 IN. MAXIMUM LARGER THAN THE BOLT, UNLESS NOTED OTHERWISE.
6. HINGE PIN HOLES IN THE STRUCTURAL STEEL AND TUBE MEMBERS SHALL BE 1/32 IN. MAXIMUM LARGER THAN THE PIN, UNLESS NOTED OTHERWISE.
7. GATE LOCK POST SHALL BE ERECTED AFTER THE GATE IN ORDER TO ACCOUNT FOR THE DEAD LOAD DEFLECTION OF THE GATE AND TO CORRECTLY LOCATE THE HOLE AND PIN ALIGNMENT.
8. ALL HORIZONTAL AND DIAGONAL MEMBERS SHALL HAVE A 1/2" DIAMETER VENT HOLE DRILLED UNDERNEATH THE MEMBERS AT EACH END.
9. ALL EXPOSED CORNERS OF PLATES SHALL HAVE A 1/4" RADIUS UNLESS NOTED OTHERWISE.
10. ALL CONCRETE SHALL BE CLASS SI AND SHALL HAVE A MINIMUM 14-DAY COMPRESSIVE STRENGTH OF 3500 PSI. ALL FOUNDATIONS SHALL BE DRILLED, INSPECTED, AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF CONCRETE. THE SOIL WAS ASSUMED TO BE A BLACK SLAG OR A LOOSE SAND AND GRAVEL.
11. CONTRACTOR SHALL PROVIDE A 7-YEAR WARRANTY ON THE RETROREFLECTIVE SHEETING.
12. CONTRACTOR SHALL LAYOUT LOCK POSTS AND HINGE POSTS FOR LOCATION APPROVAL BY ENGINEER PRIOR TO FABRICATION.
13. ALL EXPOSED EDGES SHALL BE GROUND SMOOTH.
14. ALL STEEL SHALL BE BLAST CLEANED PER SSPC-SP6 COMMERCIAL BLAST CLEANING PRIOR TO APPLICATION OF PRIMER COAT.
15. SIGNS SHALL BE THRU-BOLTED TO THE GATE AT THE LOCATIONS INDICATED ON THE PLAN WITH STAINLESS STEEL BOLTS. THE HOLES FOR THE BOLTS SHALL BE DRILLED.

**PLAN**

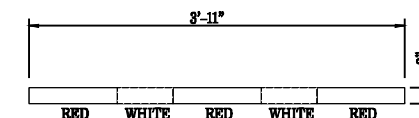


**RETROREFLECTIVE SHEETING ELEVATION**  
(FRONT & REAR VIEW)

(NOTE: WITH SINGLE GATE AN ADDITIONAL LOCK POST WILL BE REQUIRED TO KEEP GATE CLOSED)



**GATE ELEVATION**  
(RETROREFLECTIVE SHEETING NOT SHOWN FOR CLARITY)  
(STA. 502+50 - EAST ACCESS RD.)

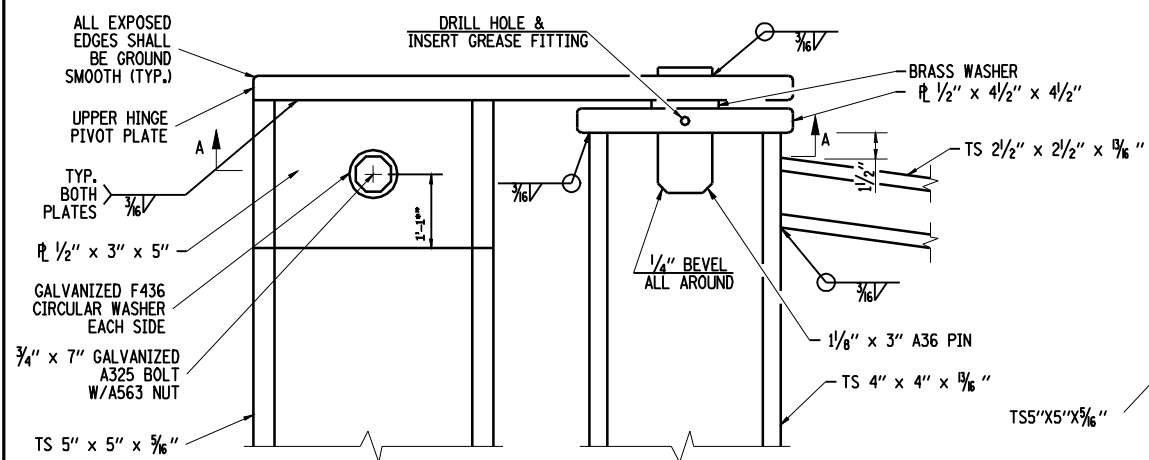


**TYPICAL RETROREFLECTIVE SHEETING DETAIL**

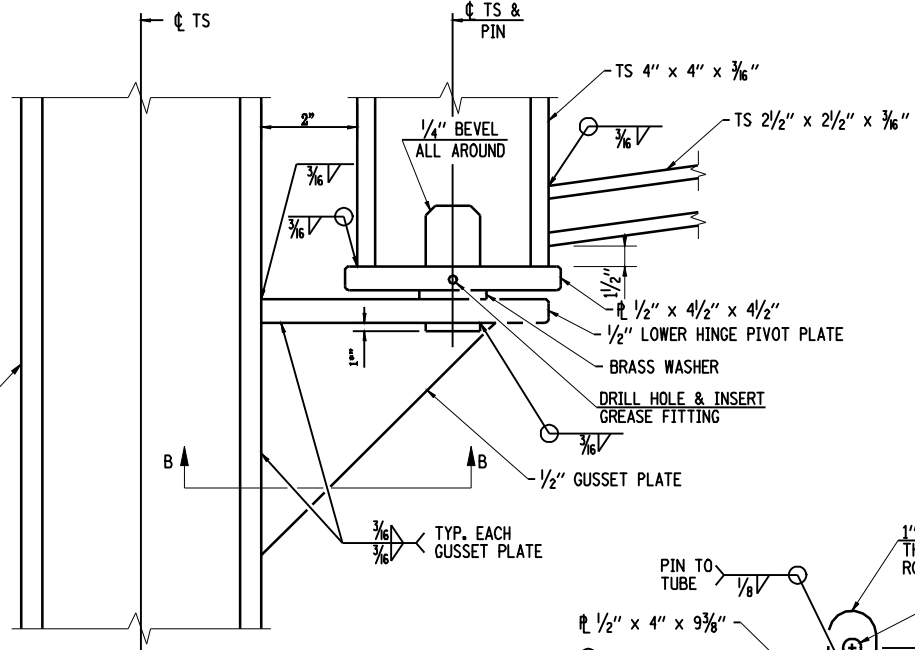
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PLOT DATE = May-18-2009 03:18:01PM	DATE -	REVISED -	SCALE:		SHEET NO. 40 OF 147 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

D-98-506-07

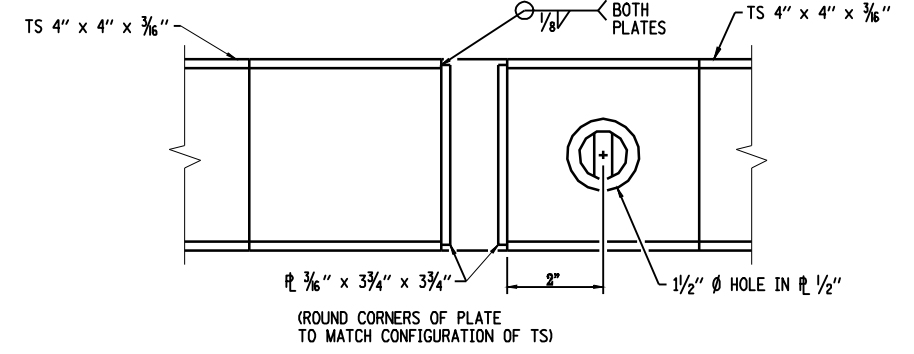




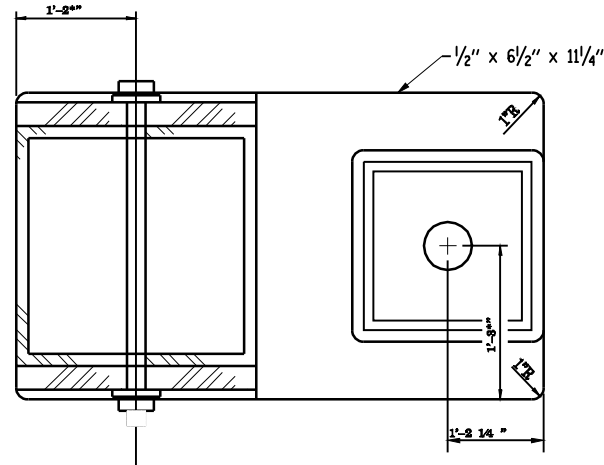
**UPPER HINGE DETAIL**  
NTS



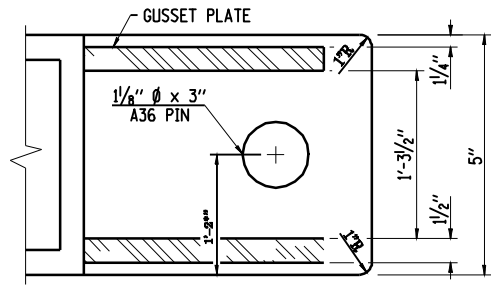
**LOWER HINGE DETAIL**  
NTS



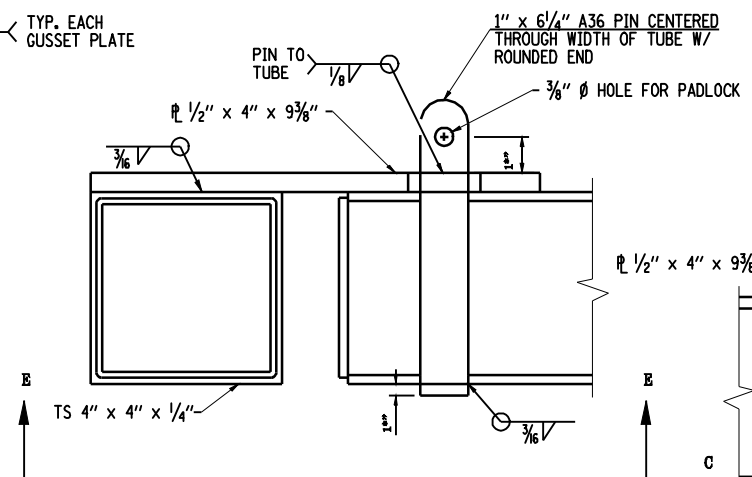
**SECTION C**  
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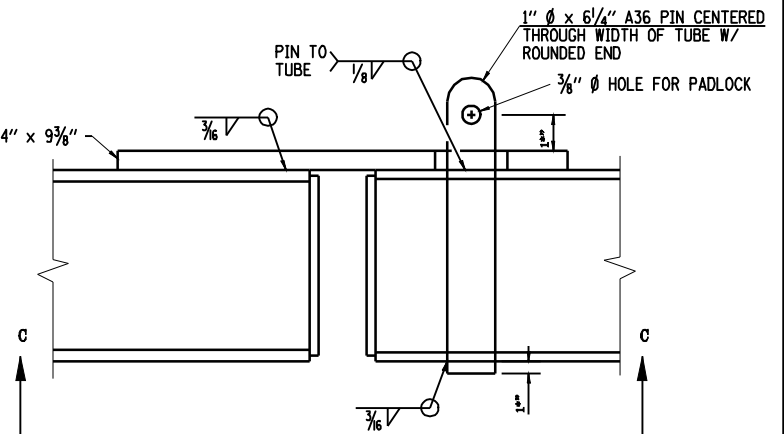
**SECTION A-A**  
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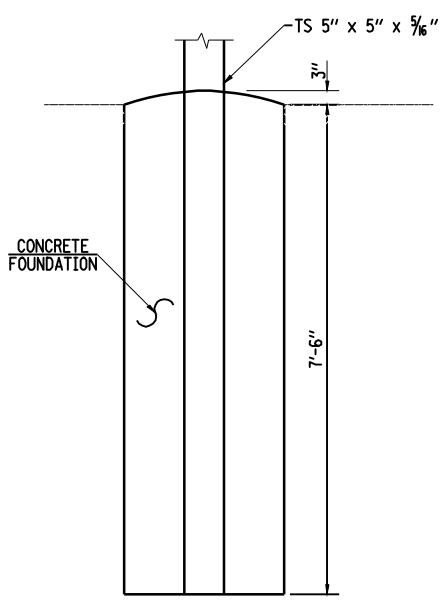
**SECTION B-B**  
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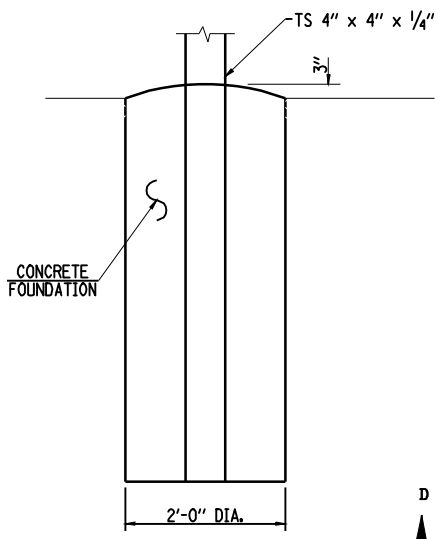
**SOUTH LOCK POST DETAIL**  
NTS



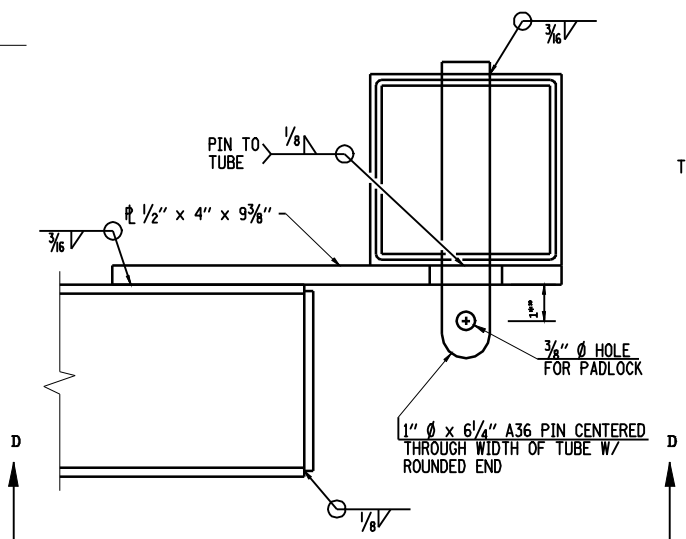
**GATE-TO-GATE CONNECTION**  
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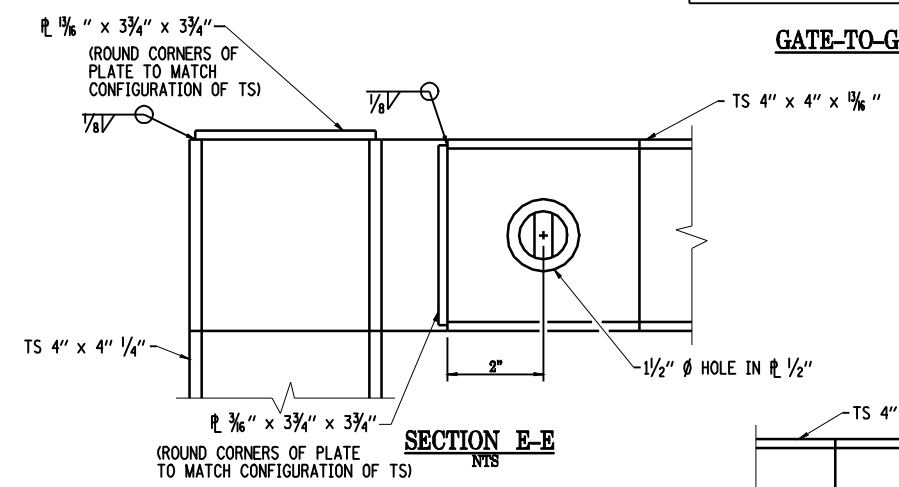
**GATE POST FOUNDATION DETAIL**  
NTS



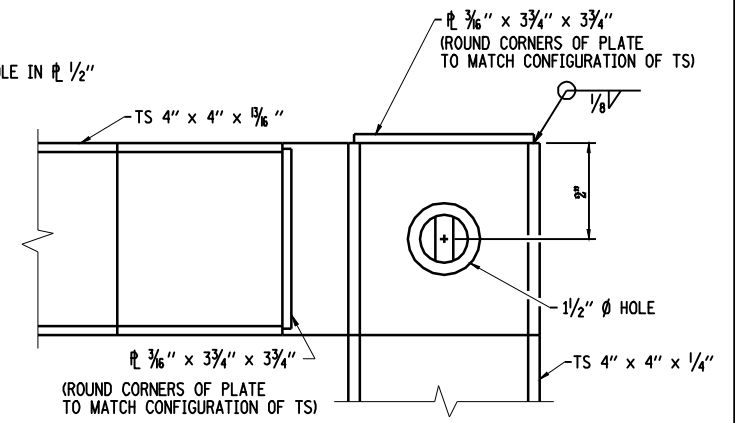
**LOCK POST FOUNDATION DETAIL**  
NTS



**NORTH LOCK POST DETAIL**  
NTS



**SECTION E-E**  
NTS



**SECTION D-D**  
NTS

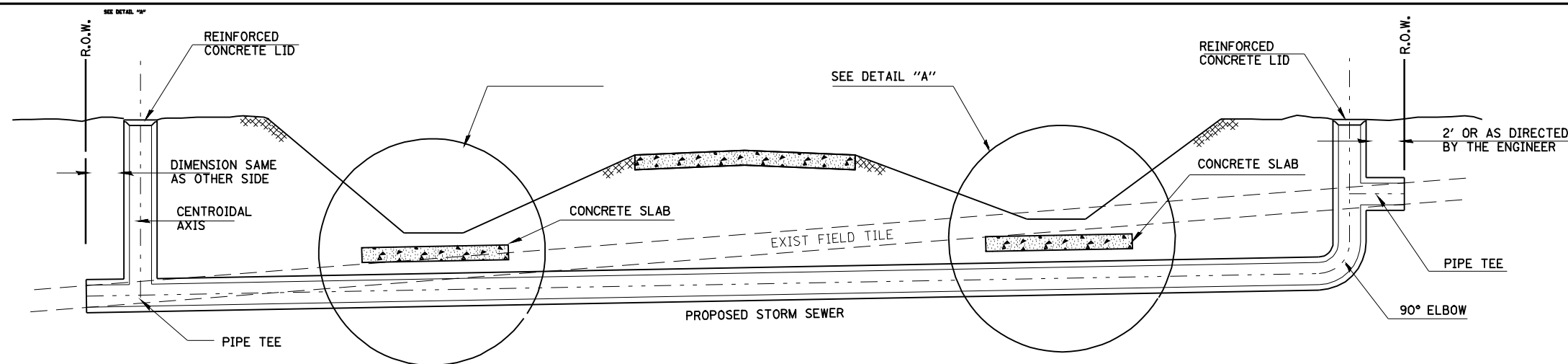
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PLOT DATE = May-18-2009 03:18:04PM		DATE -	REVISED -

**Allen Henderson & Associates, Inc.**  
Civil and Structural Engineers Springfield, IL  
62703 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

<b>ACCESS GATE DETAILS</b>			
SCALE:	SHEET NO. 41 OF 147 SHEETS	STA.	TO STA.

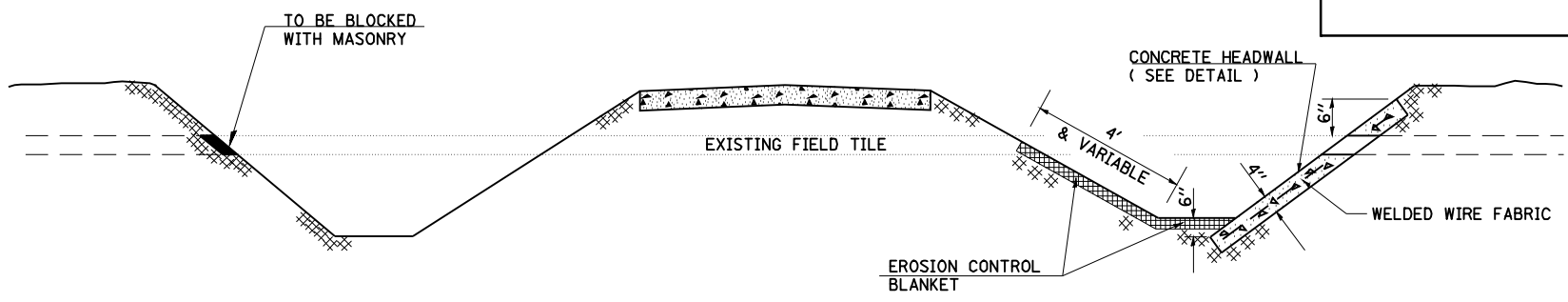
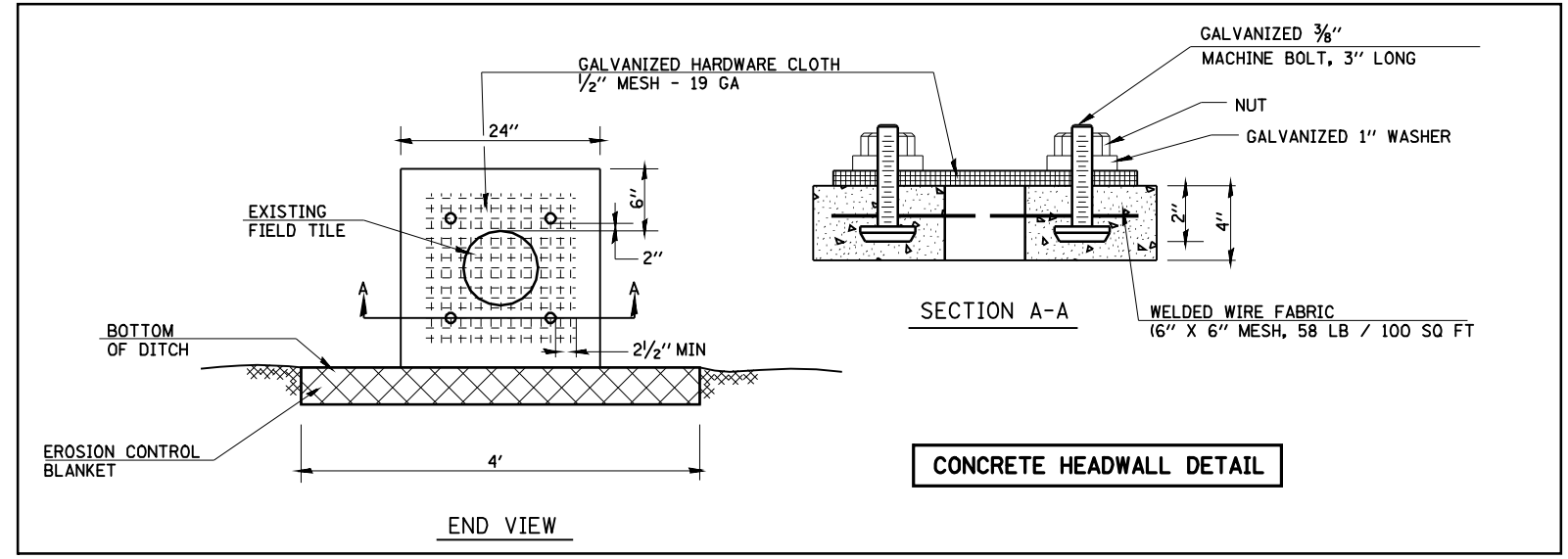
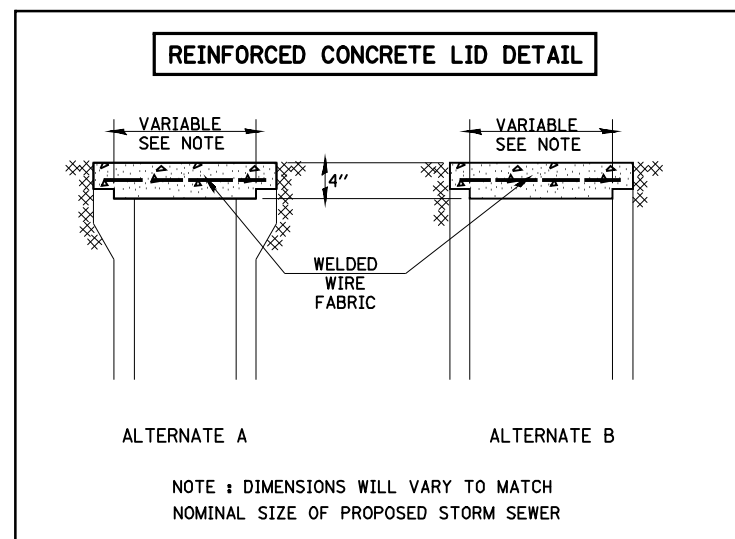
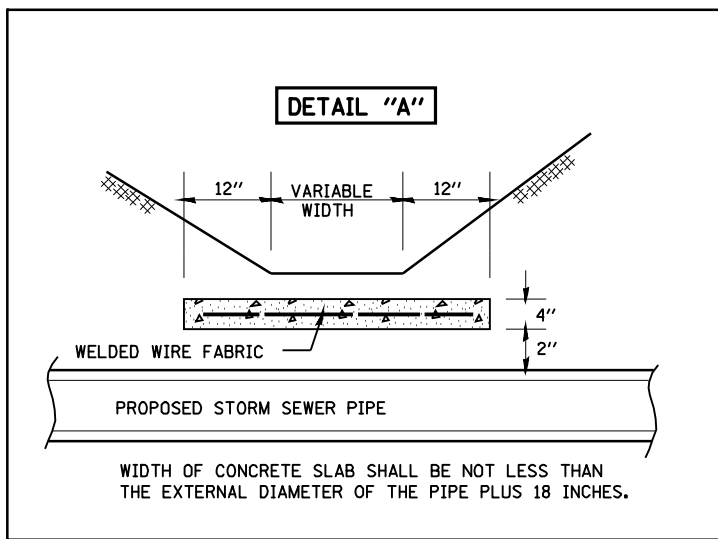
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	41
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72A02	

D-98-506-07



**GENERAL NOTES**

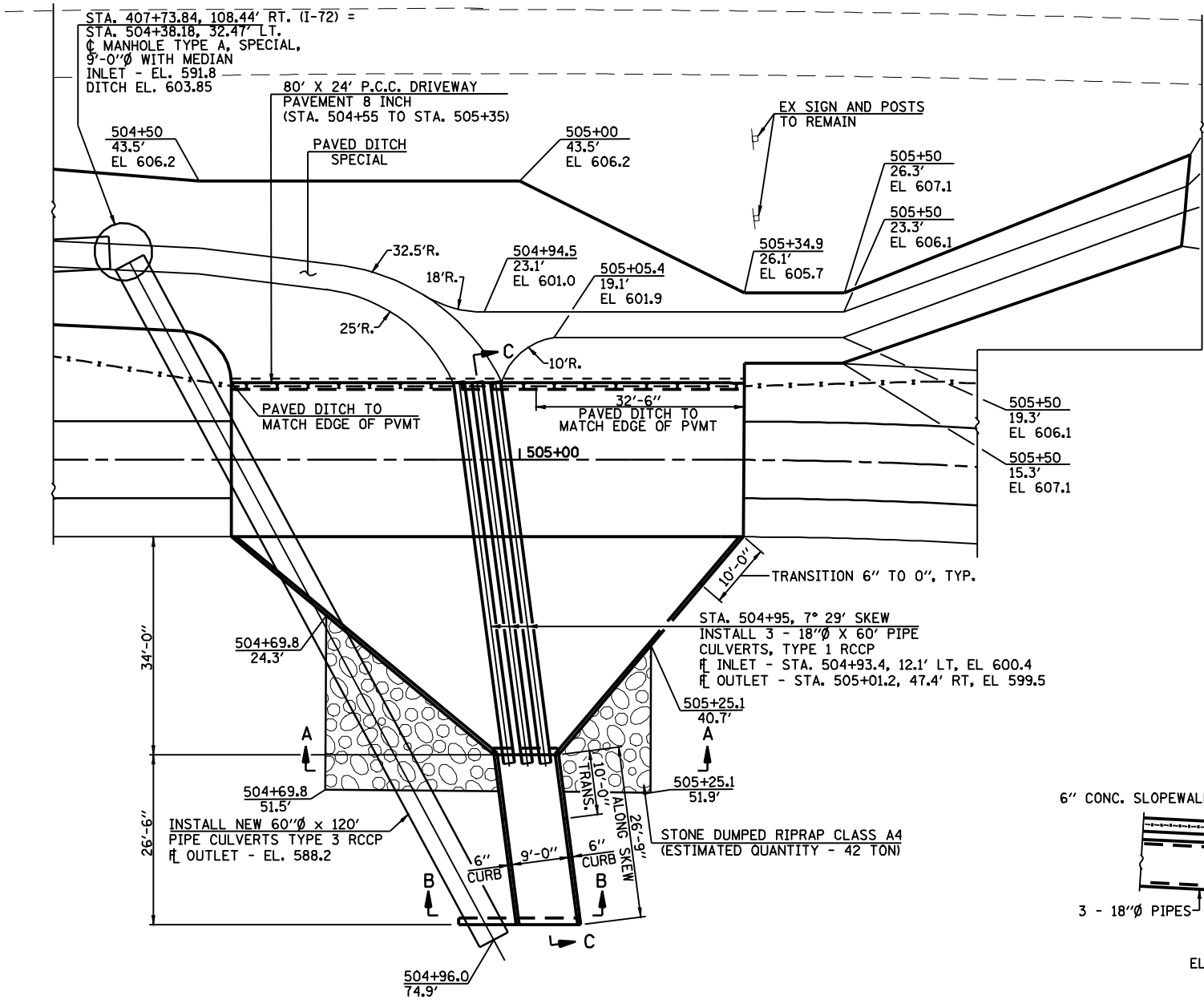
1. FIELD TILE SHALL BE REPLACED IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS. THE COST PER CONTRACT UNIT PRICE OF ITEMS INCLUDED IN THIS CONTRACT SHALL BE PAID FOR AS STATED IN SECTION 611 OF THE STANDARD SPECIFICATIONS. IF THE CONTRACT UNIT PRICE IS NOT INCLUDED IN THIS CONTRACT, PAYMENT FOR THIS WORK WILL BE IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
2. THE DIAMETER OF THE PROPOSED STORM SEWER SHALL BE EQUAL TO OR GREATER THAN THE EXISTING FIELD TILE.
3. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR BY THE DEPTH OF COVER. THE LINEAL MEASUREMENT WILL BE ALONG THE CENTROIDAL AXIS AND INCLUDE ALL BENDS, ELBOWS, OR PIPE TEE'S WHICH ARE REQUIRED.
4. THE REINFORCED CONCRETE LID SHALL BE MISCELLANEOUS CONCRETE OR PRECAST REINFORCED CONCRETE AND THE COST WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PROPOSED STORM SEWER.
5. THE CONCRETE SLAB AND CONCRETE HEADWALL SHALL BE PAID AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. THE COST OF FURNISHING AND PLACING THE WELDED WIRE FABRIC, GALVANIZED HARDWARE CLOTH, MACHINE BOLTS, WASHERS AND NUTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR MISCELLANEOUS CONCRETE.
6. EXISTING FIELD TILE SHALL BE LOCATED BOTH HORIZONTALLY AND VERTICALLY BY THE USE OF AN EXPLORATION TRENCH. THIS TRENCH SHALL NOT BE LESS THAN 52 INCHES IN DEPTH, MEASURED FROM THE EXISTING GROUND ELEVATION. THE WIDTH OF THE TRENCH SHALL BE SUFFICIENT TO ALLOW PROPER INVESTIGATION OF THE ENTIRE TRENCH.
7. THE EXISTING TILE DRAINAGE SYSTEM SHALL BE MAINTAINED IN A FUNCTIONAL CONDITION BY IMMEDIATE CONSTRUCTION OF THE NEW STORM SEWER SYSTEM OR BY REPAIRING THE CUT TILE WITH THE SAME DIAMETER UNTIL SUCH TIME AS THE NEW SYSTEM IS COMPLETED.



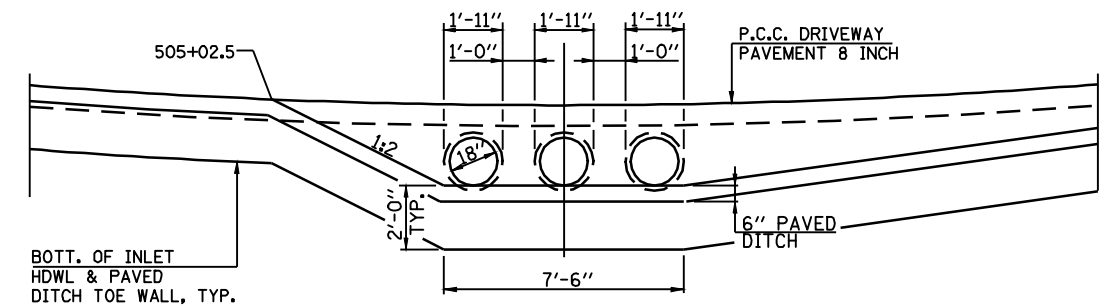
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PLOT DATE = May-18-2009 03:18:07PM		DATE -	REVISED -		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT					

D-90-508-07

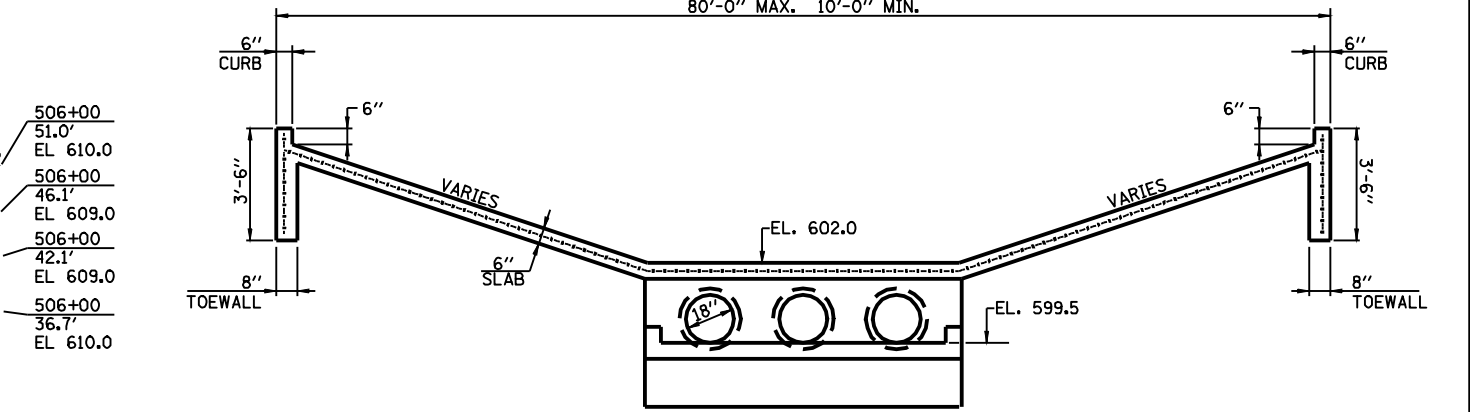
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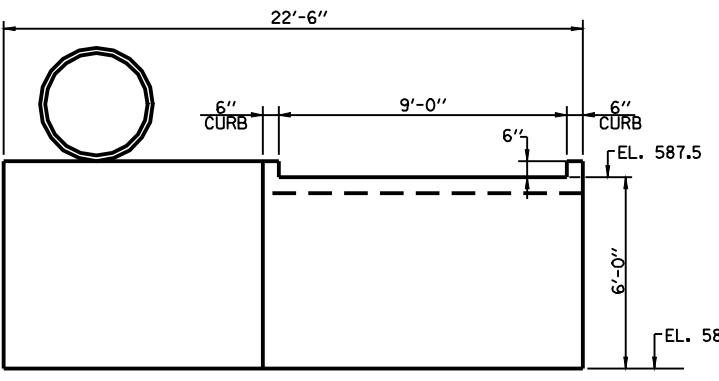
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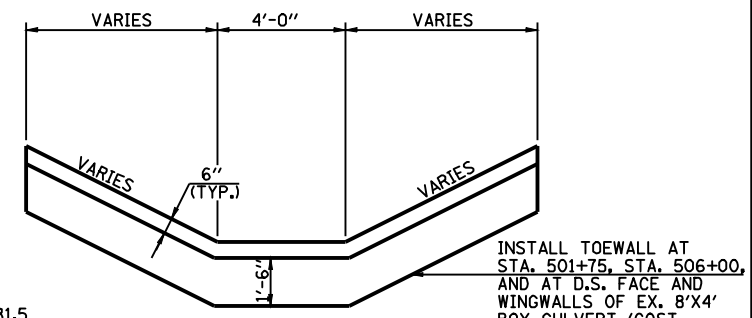
INLET HEADWALL DETAIL  
LOOKING DOWNSTREAM



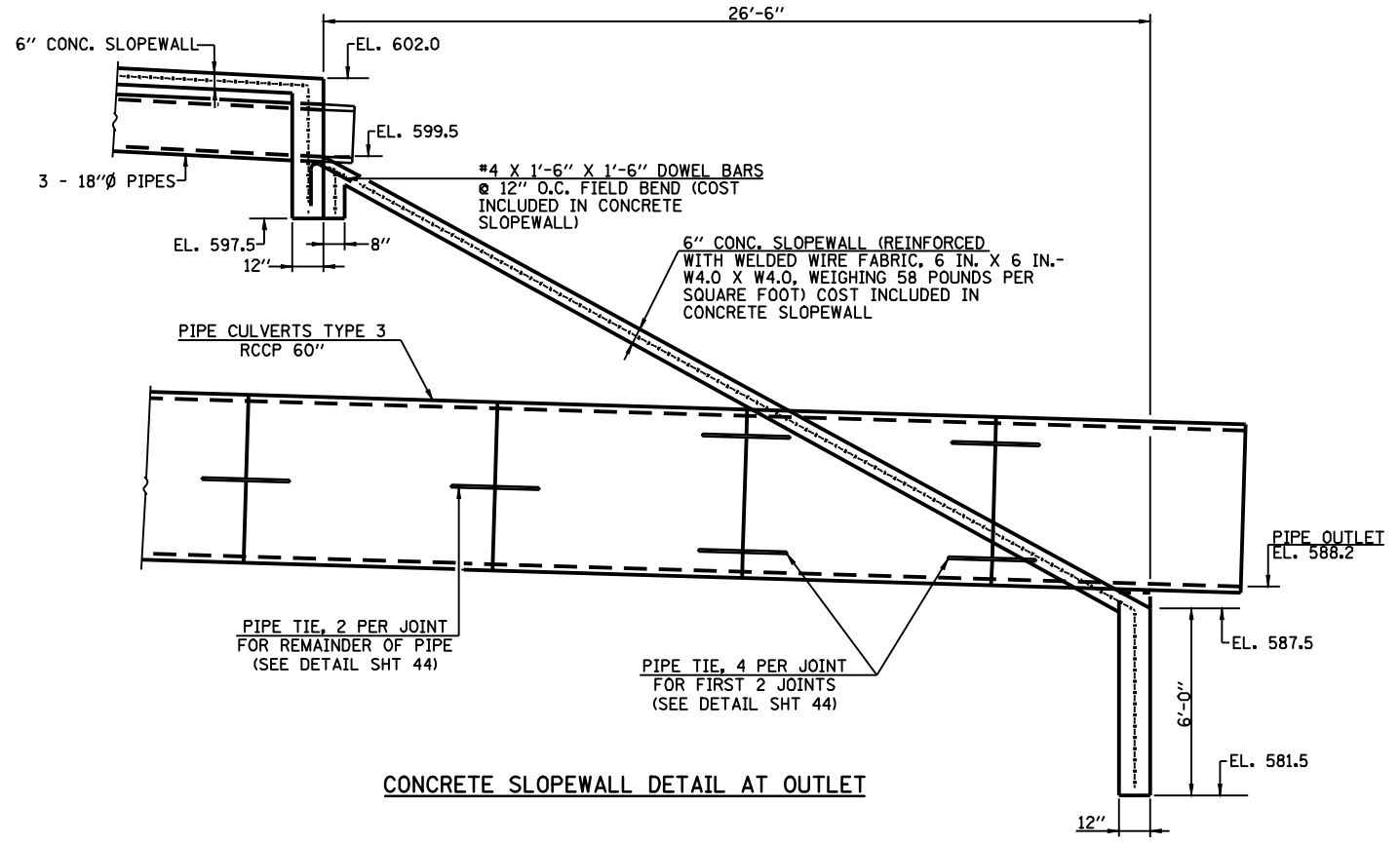
SECTION A-A



SECTION B-B

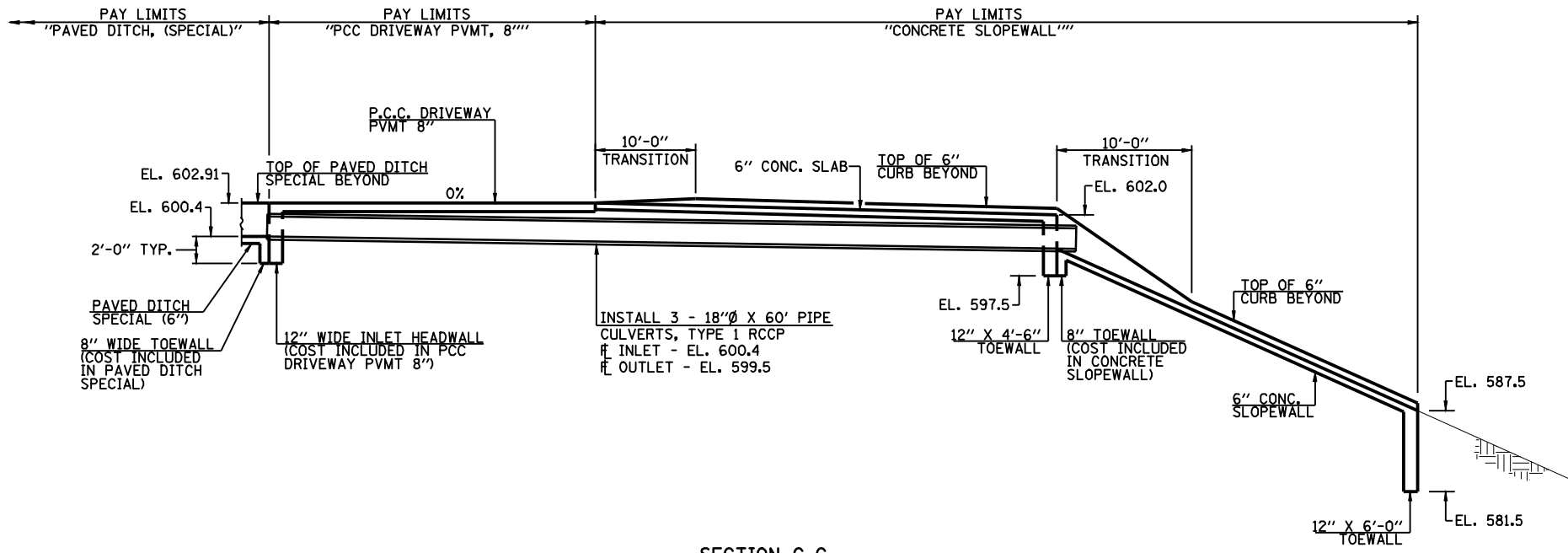


TYPICAL SECTION THRU PAVED DITCH  
(REFER TO STD. 606401)  
COST INCLUDED IN  
PAVED DITCH SPECIAL

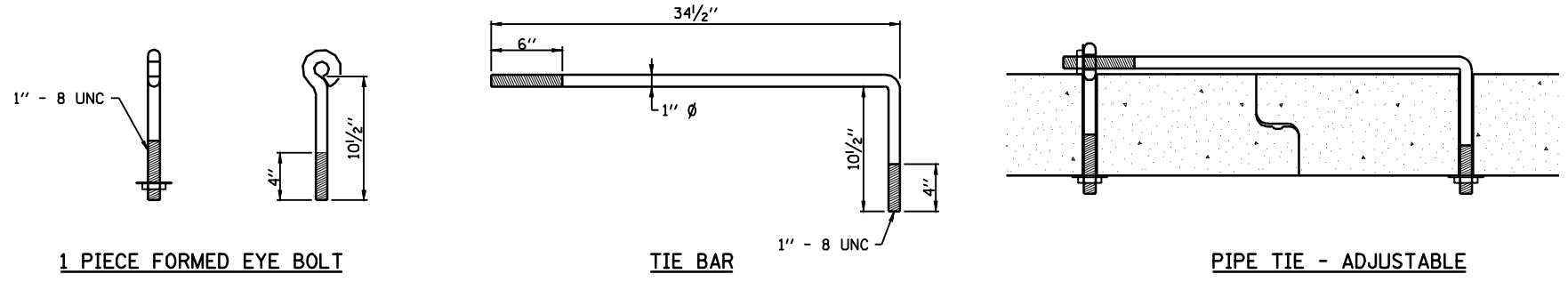


CONCRETE SLOPEWALL DETAIL AT OUTLET


FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -		<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	PAVED DITCH AND SLOPEWALL DETAILS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pwwork\pwwid\LAUGHLINRL\0143507\0672402-sht-slopewall details.dgn		DRAWN -	REVISED -			8012	21(I-3)	SANGAMON	147	43		
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PLOT DATE = May-18-2009 03:18:09PM		DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT					
				SCALE:	SHEET NO. 43 OF 147 SHEETS	STA.	TO STA.					



SECTION C-C



PIPE TIE DETAILS FOR 60" X 120' RCCP  
COST INCLUDED IN  
PIPE CULVERTS, TYPE 3 RCCP 60"

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>PAVED DITCH AND SLOPEWALL DETAILS</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = May-18-2009 03:18:12PM	DATE -	REVISED -	SCALE:		SHEET NO. 44 OF 147 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

STORM WATER POLLUTION PREVENTION PLAN

Route: FAU 8012 & FAI Route 72      Marked: Wabash Ave. & I-72  
 Section: 21(1-3)      Project No.: N/A  
 County: Sangamon      Contract No.: 72A02

This plan has been prepared to comply with the provision of the NPDES Permit Number ILR10 \_\_\_\_\_ issued by the Illinois Environmental Protection Agency for storm water discharges from construction site activities.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Reg Z Dink  
 (Signature)      6-1-09  
 (Date)

Regis Y Engineer  
 (Title)

Note: The above boxed in area will be filled out by IDOT - Construction after the award of the contract to obtain the required NPDES permit.

The following plan was established and included in these plans to direct the Contractor in the placement of temporary erosion control systems and to provide a storm water pollution prevention plan for compliance under NPDES. The Contractor shall abide to all requirements within this plan as part of the contract.

The purpose of this plan is to prevent / minimize siltation within the construction zone and to eliminate sediments from entering and leaving the construction zone by utilizing proper temporary erosion control systems and providing ground cover within a reasonable time.

Certain items, as shown in this plan and referenced by the legend, shall be placed by the Contractor at the beginning of construction. Other items shall be placed by the Contractor as directed by the Engineer on a case by case situation resulting from the Contractor's sequence of activities, time of the year, and expected weather conditions.

The Contractor shall place permanent erosion control systems and seeding within a reasonable amount of time; therefore, reducing the amount of area being open to the possibility of erosion and reducing the amount of temporary erosion control systems and temporary seeding. The Resident Engineer will determine if temporary erosion control systems shown in the plan can be deleted, the size of the proposed ditch checks, the proper method of installation, and if any additional temporary erosion control systems shall be added which are not included in this plan. The Contractor shall perform all work as directed by the Engineer and as shown in special details and in Standard 280001 of the plans.

The special provisions Temporary Seeding, Temporary Erosion Control Seeding, and Temporary Erosion Control additionally supplement this plan.

All disturbed areas having high potential for erosion, as determined by the Engineer, shall be temporarily seeded or permanently seeded by October 1st of each construction year and shall not be reopened until after the winter shutdown period.

SITE DESCRIPTION

Description of Construction Activity:

1. The proposed project consists of a drainage improvement starting north of FAU 8012 (Wabash Avenue) and ending just North of the Norfolk & Southern railroad in a borrow excavation area located in Sangamon County.
2. Construction consists of grading, riprap placement, trenchless pipe installation, dam construction and other miscellaneous work to complete the drainage improvements.

Description of Intended Sequence of Major Construction Activities Which Will Disturb Earth and Lead to Possible Erosion for Major Portions of the Construction Site:

1. Widening, grading and shaping of ditches throughout project.
2. Excavation will be completed along Wabash Avenue and between Wabash Avenue and I-72 and South of I-72 to grade out for proposed roadway ditches.
3. Drainage structures will be installed before and/or during the construction of the excavation to allow proper drainage across private and field entrances, Wabash Avenue, Ash Grove Road and I-72.
4. Placement, maintenance, removal and proper clean-up of temporary erosion control, such as erosion control fence, ditch checks, temporary seeding etc.
5. Placement of permanent erosion control, such as seeding, mulch and fertilizer nutrients.
6. Final grading, riprap placement and other miscellaneous items.

Area of Construction Site:


The total drainage area entering and including the construction site is estimated to be approx. 2.20 sq miles in which 31.0 acres will be disturbed by excavation, grading or other activities.

Other Reports, Studies and Plans which Aid in the Development of this Storm Water Pollution Prevention Plan as Referenced Documents:

1. Information on the soils within the site was obtained from field reviews which were utilized for proposed placement of the temporary erosion control systems.
2. U.S.G.S. drainage maps indicating drainage patterns and approximate slopes were referenced along with project plan documents to assist in the proposed placement of the temporary erosion control systems.

Drainage Tributaries Receiving Water from this Construction Site:

1. Lick Creek

FILE NAME = D672A02-shr-swppp.dgn	USER NAME =	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>STORM WATER POLLUTION PREVENTION PLAN</b>			F.A.U. RTE. 8012	SECTION 21(1-3)	COUNTY SANGAMON	TOTAL SHEETS 147	SHEET NO. 45
PLOT SCALE =	CHECKED -	REVISED -	REVISED -		SCALE: NONE	SHEET NO. 45 OF 147 SHEETS	STA.	TO STA.	CONTRACT NO. 72A02			
PLOT DATE = 5/6/2009	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

**CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROLS**

**Description of Stabilization Practices at the Beginning of Construction:**

1. The area between the existing and proposed right-of-way/temporary easement boundaries and limits of the project will be improved and managed for the purposes of controlling erosion within the area, reducing water flow by temporary diversion and minimizing siltation into the construction zone, and establishing vegetative cover which will become permanent vegetation and act as an erosion barrier. Work at the beginning of construction will consist of the following:
  - (a) Areas of existing vegetation (woods and grasslands) outside the proposed construction slope limits shall be identified for preserving and shall be protected from mowing, brush cutting, tree removal and other activities which would be detrimental to their maintenance and development.
  - (b) Dead, diseased, or unsuitable vegetation within the site shall be removed as directed by the Engineer, along with required tree removal.
  - (c) As soon as reasonable access is available (such as trees cleared) to all locations where water drains away from the project, sediment basins, riprap ditch checks, temporary ditch checks, and/or erosion control fence shall be installed as called out in this plan and directed by the Engineer.
  - (d) Bare and sparsely vegetated ground in highly erodible areas as determined by the Engineer shall be temporarily seeded at the beginning of construction where no construction activities are immediately expected as stated in the special provision "Temporary Erosion Control Seeding".
  - (e) Immediately after tree removal is completed in certain areas which are highly erodible areas as determined by the Engineer, the areas shall be temporarily seeded where no construction activities are immediately expected as stated in the special provision "Temporary Erosion Control Seeding".
  - (f) At locations where a significant amount of water drains into the construction zone from outside areas (adjacent landowners), erosion control fence, temporary ditch checks, or riprap ditch checks will be utilized to locally divert water, reduce flow rates, and collect outside siltation inside the right-of-way line. Erosion control items will not be allowed to be installed to cause flooding to upstream private property which could cause crop damages or other undesirable conditions.
2. Establishment of these temporary erosion control measures will have additional benefits to the project. Desirable grass seed will become established in these areas and will spread seeds onto the construction site until permanent seeding/mowing and overseeding can be complete.
3. A third benefit of these filter areas is that they will begin to provide a screen and buffer. They will help protect the construction site from winds and excess sun and mitigate construction noise and dust.

**Description of Stabilization Practices During Construction:**

1. During construction, areas outside the construction slope limits as outlined previous herein shall be protected from damaging effects of construction. The Contractor shall not use this area for staging (except as designated on the plans or directed by the Engineer), parking of vehicles or construction equipment, storage of materials, or other construction related activities.
  - (a) Within the construction zone, critical areas which have high flows of water as determined by the Engineer shall remain undisturbed until full scale construction is underway to prevent unnecessary soil erosion.
  - (b) Top soil and earth stockpiles shall be temporarily seeded if they are to remain unused for more than fourteen days.
  - (c) As the Contractor constructs a portion of roadway in a fill section, he/she shall follow the following steps as directed by the Engineer:
    - i. Place temporary erosion control systems at locations where water leaves and enters the construction zone
    - ii. Temporary seed highly erodible areas outside the construction slope limits
    - iii. Construct roadside ditches and provide temporary erosion control systems
    - iv. Temporary divert water around proposed culvert locations
    - v. Build necessary embankment at culvert locations and then excavate and place culvert
    - vi. Continue building up the embankment to the proposed grade while at the same time place permanent erosion control such as riprap ditch lining and conduct final shaping to the slopes
  - (d) The Contractor shall immediately follow major earth moving operations with final grading equipment. After the major earth spread operation has moved to a new location, final grading shall be completed within fourteen days. If grading is not completed within fourteen days, all major earth moving operations will be stopped, as directed by the Engineer, until disturbed areas are final graded and seeded.
  - (e) Excavated areas and embankments shall be permanently seeded when final graded. If not, they shall be temporarily seeded as stated in the special provision "Temporary Erosion Control Seeding".

- (f) Construction equipment shall be stored and fueled only at designated locations. All necessary measures shall be taken to contain any fuel or pollution run-off in compliance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.
- (g) The Resident Engineer shall inspect the project daily during activities and weekly or after large rains during the winter shutdown period. The project shall additionally be inspected by the Construction Field Engineer on a bi-weekly basis to determine that erosion control efforts are in place and effective and if other control work is necessary.
- (h) Sediment collected during construction by the various temporary erosion control systems shall be disposed of on the site on a regular basis as directed by the Engineer. The cost of this maintenance will be paid for in accordance with Article 109.04 of the Standard Specifications.
- (i) The temporary erosion control systems shall be removed as directed by the Engineer after use is no longer needed or no longer functioning. The costs of this removal shall be included in the unit bid price for the temporary erosion control system. No additional compensation will be allowed.

**Description of Structural Practices After Final Grading:**

1. Temporary erosion control systems shall be left in place with proper maintenance until permanent erosion control is in place and working properly and all proposed turf areas seeded and established with a proper stand.
2. Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall be removed, cleaned up, and disturbed turf reseeded. Temporary riprap ditch checks will be allowed to remain in place where approved by the Engineer.


**Maintenance after Construction:**

1. Construction is complete after acceptance is received at the final inspection.
2. Areas will be inspected on a regular basis by IDOT District 6 Bureau of Operations.
3. Maintenance crews will perform regular mowings to aid in keeping weeds down and establishing a good roadside seed stand.
4. Maintenance crews will also aid in any ditch lining maintenance or in any drainage problems.
5. All maintenance will be conducted at times when weather conditions will not cause site damage.

**DOCUMENTATION**

1. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, date(s) of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken in accordance with Section 4.b. shall be made and retained as part of the plan for at least three years after the date of inspection. The report shall be signed in accordance with part VI.G of the general permit.
2. If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer or Resident Technician shall complete and file an "Incident of Noncompliance (ION)" report for the identified violation. The Resident Engineer or Resident Technician shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI.G. of the general permit. The report of noncompliance shall be mailed to the following address:

Illinois Environmental Protection Agency  
 Division of Water Pollution Control  
 2200 Churchill Road, P.O. Box 19276  
 Springfield, IL 62794-9276  
 Attn: Compliance Assurance Section

FILE NAME = D672A02-sh1-xxxx.dgn	USER NAME =	DESIGNED - DRAWN -	REVISED - REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>STORM WATER POLLUTION PREVENTION PLAN</b>				F.A.U. RTE. 8012	SECTION 21(I-3)	COUNTY SANGAMON	TOTAL SHEETS 147	SHEET NO. 46
PLOT SCALE =	CHECKED -	REVISED -	REVISED -		SCALE: NONE	SHEET NO. 46 OF 147 SHEETS	STA.	TO STA.	CONTRACT NO. 72A02				
PLOT DATE = May-18-2009 03:18:17PM	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

CONTRACTOR CERTIFICATION STATEMENT

This certification statement is part of the Storm Water Pollution Plan for the project described below in accordance with NPDES Permit No. ILR10 \_\_\_\_\_, issued by the Illinois Environmental Protection Agency on \_\_\_\_\_.

Route: FAU 8012 & FAI 72 Marked: Wabash Ave. & I-72  
 Section: 21(I-3) Project No.: N/A  
 County: Sangamon Contract No.: 72A02

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

Signature \_\_\_\_\_ Date \_\_\_\_\_  
 Title \_\_\_\_\_  
 Name of Firm \_\_\_\_\_  
 Street Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone Number \_\_\_\_\_

Note: The above boxed in area shall be filled out by the Contractor after the award of the contract to obtain the required NPDES Permit from IEPA. This is a requirement for this contract.

FILE NAME =  
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 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

**STORM WATER POLLUTION PREVENTION PLAN**

SCALE: NONE

SHEET NO. 47 OF 147 SHEETS

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8012

SECTION

21(I-3)

COUNTY

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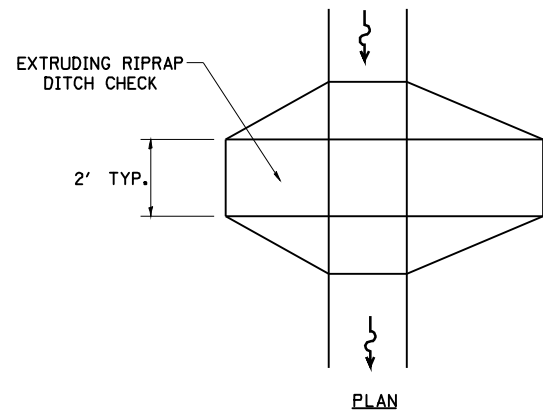
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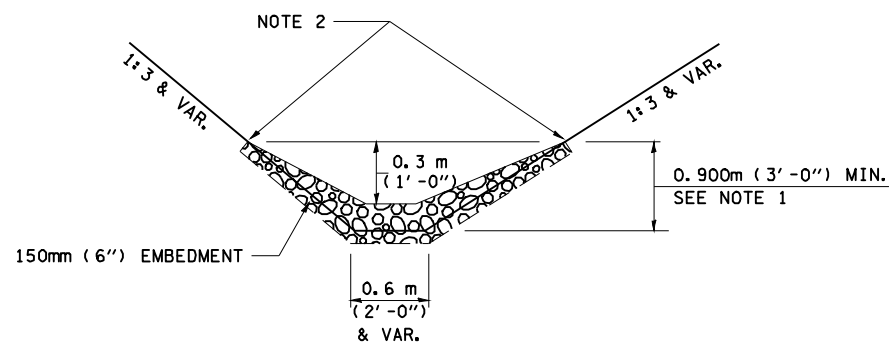
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CONTRACT NO. 72A02

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



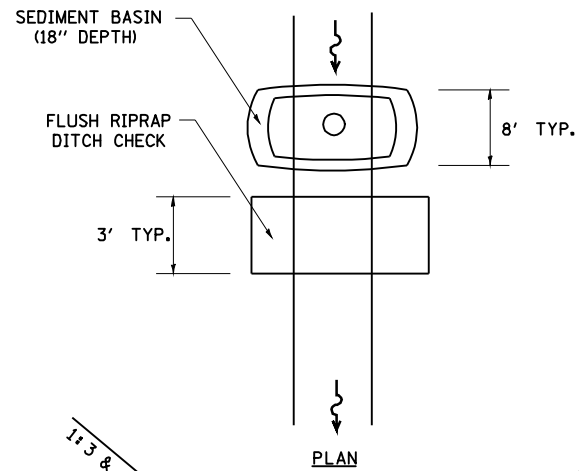
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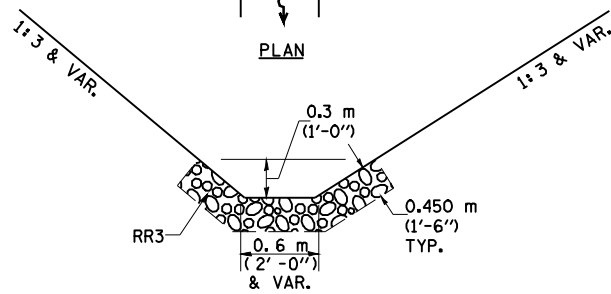
ELEVATION

OPTION 1

(EXTRUDING DITCH CHECK)  
RECOMMENDED FOR AREAS  
W/ RIPRAP DITCH LINING



PLAN



ELEVATION

OPTION 2

(FLUSH DITCH CHECK)  
RECOMMENDED FOR AREAS  
W/O RIPRAP DITCH LINING

**STONE DUMPED RIPRAP DITCH CHECK**

(TYPICAL & OPTIONS 1 & 2  
AS DIRECTED BY THE ENGINEER)

NOTE 1: RIPRAP SHALL EXTEND FAR ENOUGH UP THE SLOPES TO ALLOW 0.3m (1') OVERTOPPING TO AVOID ERODING AROUND THE EDGES OF THE RIPRAP.

NOTE 2: ENDS SHALL BE TIED INTO SLOPES.

LEGEND FOR STORM WATER POLLUTION PREVENTION PLAN	
ITEM	SYMBOL
AGGREGATE (EROSION CONTROL)	◆
ESTONE DUMPED RIPRAP DITCH CHECKS: Height = 0.6m (2')	◆
TEMPORARY DITCH CHECKS	◆
INLET PIPE PROTECTION (I&PP)	◆
EROSION CONTROL FENCE	◆
EARTH EXCAVATION FOR EROSION CONTROL (SEDIMENT BASINS)	○
PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS)	▨
ITEM PLACED AT BEGINNING OF CONSTRUCTION (Requirement)	* ITEM *
ITEM PLACED AS DIRECTED BY ENGINEER (When required by situation)	ITEM
DIRECTION OF OVERLAND FLOW	➔

GENERAL NOTES:

All items shall be constructed as shown on this sheet, on Standard 280001, and as directed by the Engineer.

The symbology on the STORM WATER POLLUTION PREVENTION PLAN sheets does not represent the size or quantity of bales, for number of bales refer to details and notes shown on this sheet and/or as directed by the Engineer.

**THE CONTRACTOR SHALL INSTALL DITCH CHECKS AS DIRECTED BY THE ENGINEER. IF THE ENGINEER ELECTS TO UTILIZE FLUSH RIPRAP DITCH CHECKS IN LIEU OF TEMPORARY DITCH CHECKS AS SHOWN ON THE FOLLOWING PLAN SHEETS, THE SPACING SHOULD BE DOUBLED.**

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**Allen Henderson & Associates, Inc.**  
Civil and Structural Engineers Springfield, IL  
62703 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

**STORM WATER POLLUTION PREVENTION PLAN**

SCALE: NONE

SHEET NO. 48 OF 147 SHEETS

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F.A.U. RTE.

SECTION

COUNTY

TOTAL SHEETS

SHEET NO.

8012

21(I-3)

SANGAMON

147

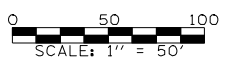
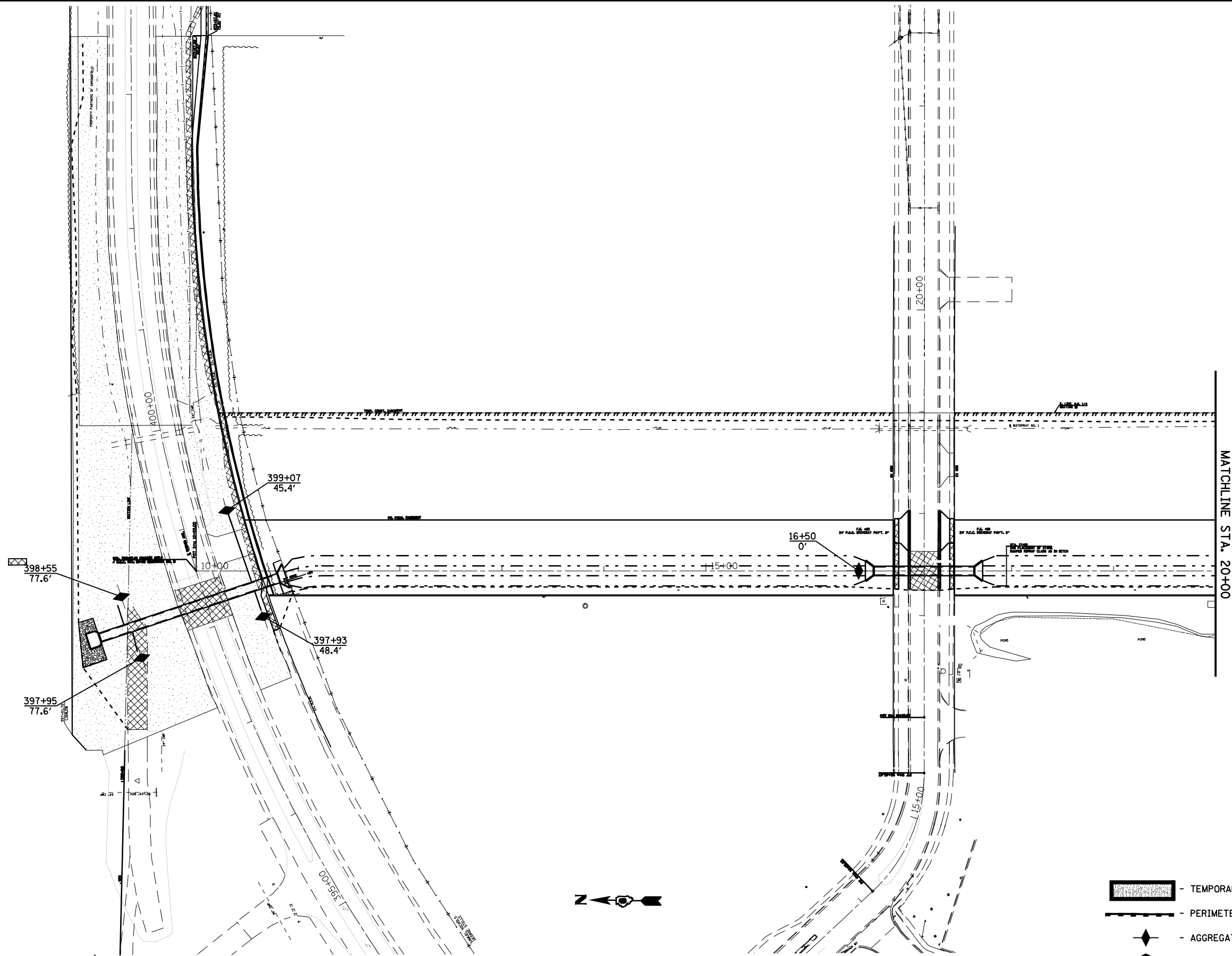
48

CONTRACT NO.

72A02

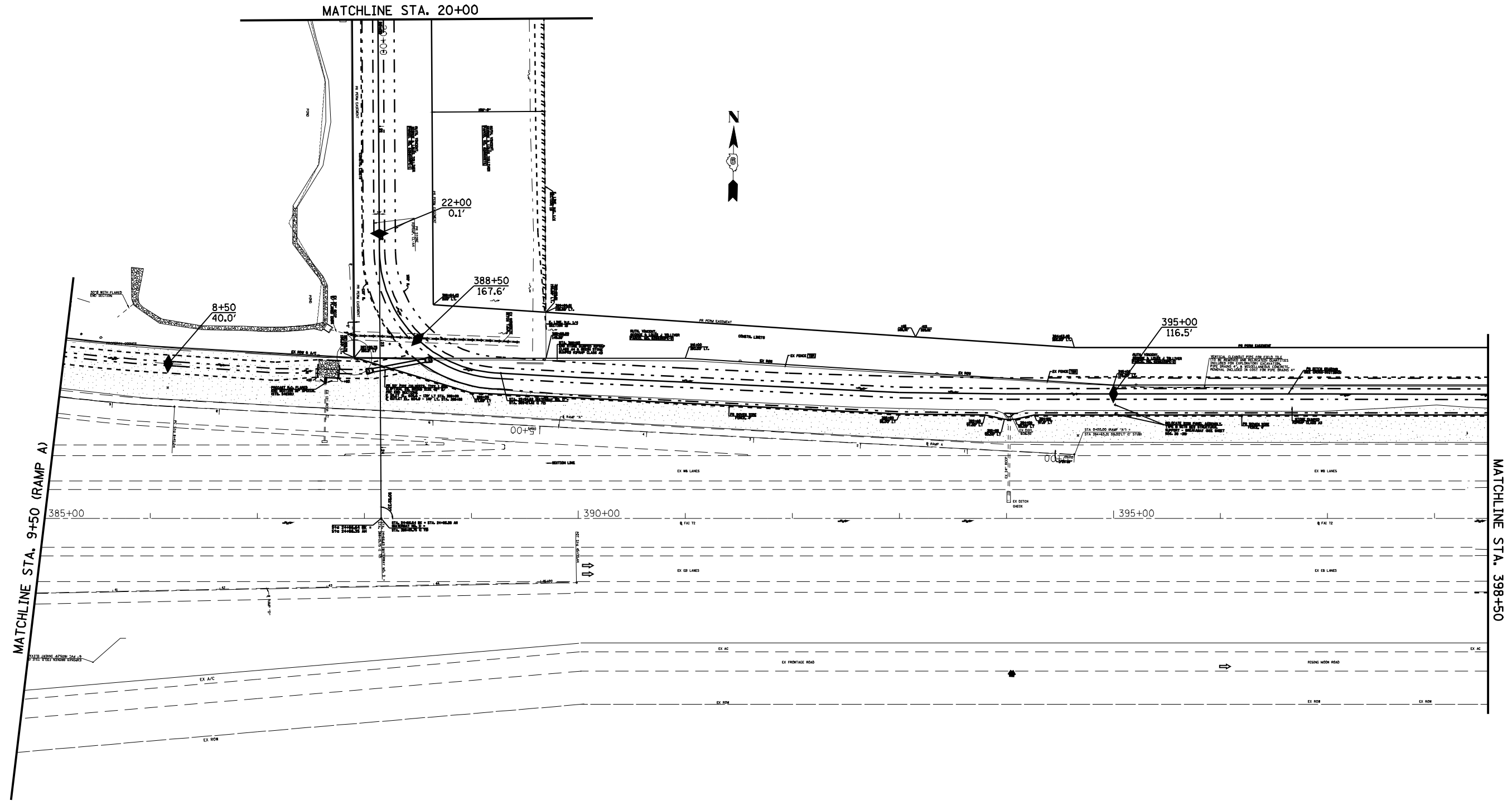
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT







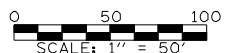



- LEGEND**
- TEMPORARY EROSION CONTROL SEEDING
  - PERIMETER EROSION BARRIER
  - AGGREGATE DITCH CHECK
  - AGGREGATE EROSION CONTROL





FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -		<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>STORM WATER POLLUTION PREVENTION PLAN</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
er\pwork\PWIDOT\LAUGHLINRL\0143507\0672602-sht-eros.dgn		DRAWN -	REVISED -		8012	21(I-3)	SANGAMON	147	49				
PLOT SCALE = 100.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 72A02								
PLOT DATE = May-18-2009 03:18:25PM		DATE -	REVISED -		SCALE: 1" = 50'	SHEET NO. 49 OF 147 SHEETS	WABASH AVE TO STA. 20+00.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT				

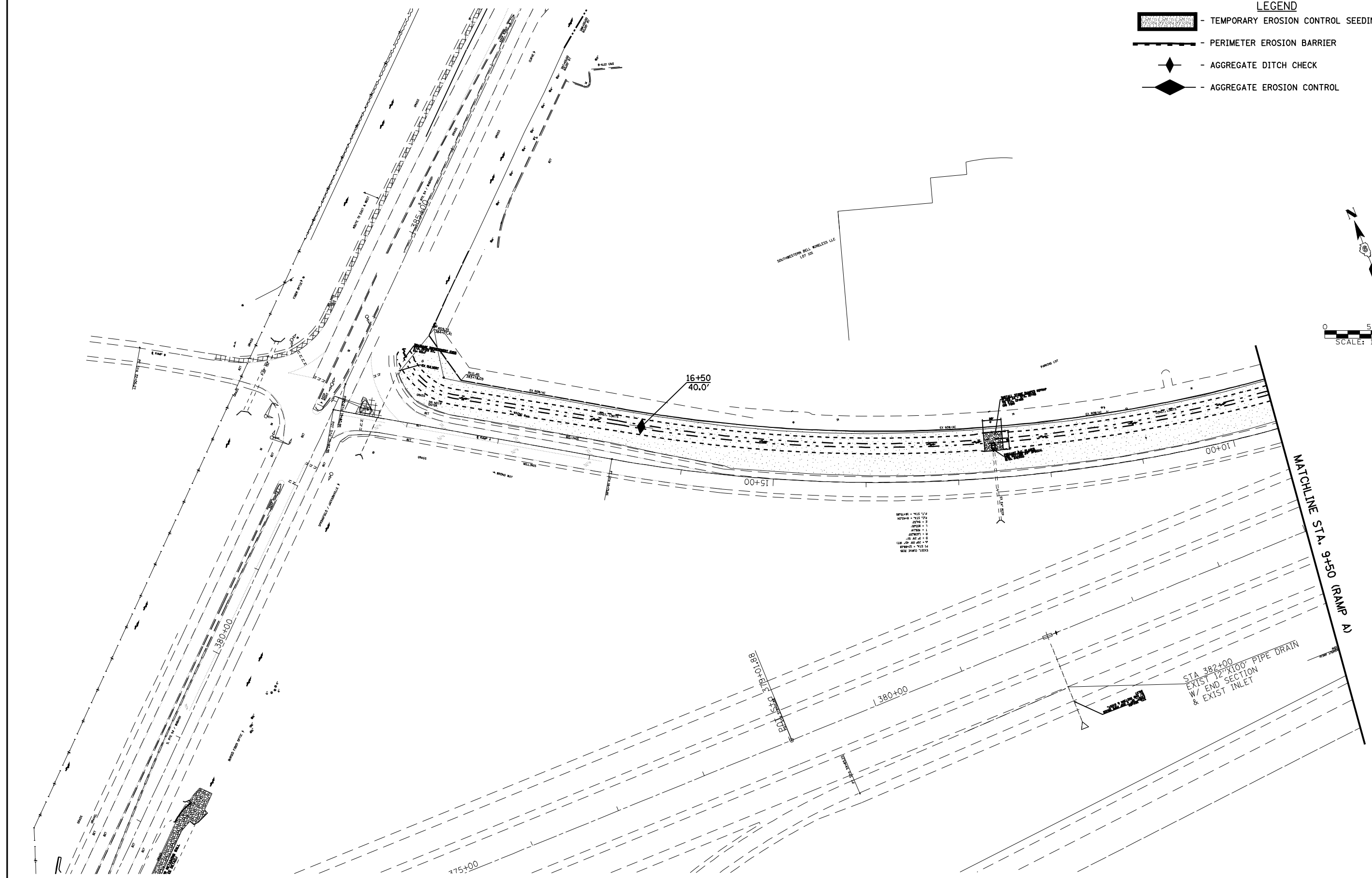
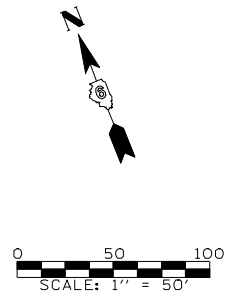



- LEGEND**
-  - TEMPORARY EROSION CONTROL SEEDING
  -  - PERIMETER EROSION BARRIER
  -  - AGGREGATE DITCH CHECK
  -  - AGGREGATE EROSION CONTROL

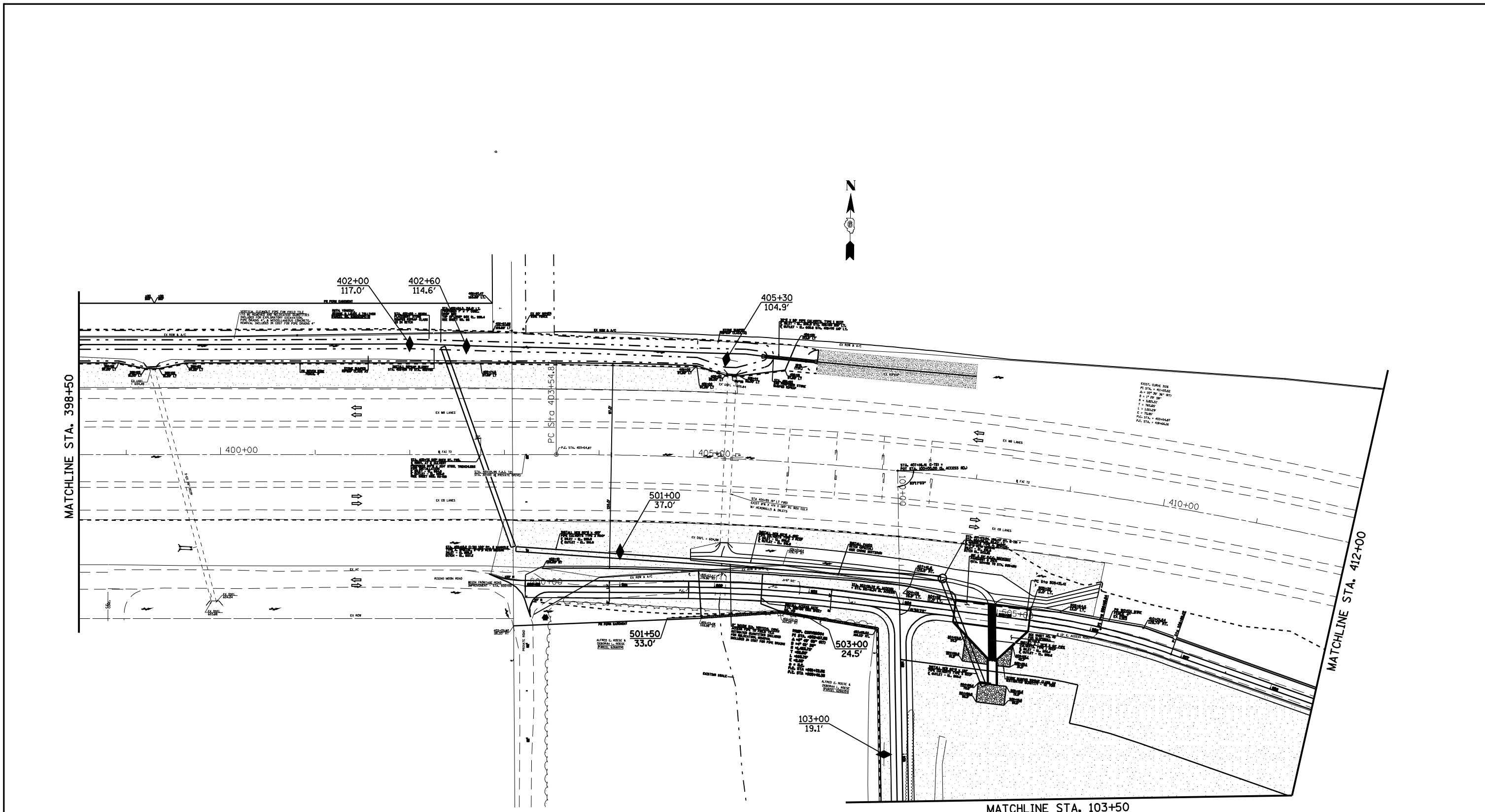


FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>STORM WATER POLLUTION PREVENTION PLAN</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
e:\pwork\pwidot\LAUGHLINRL\0143507\0672A02-sht-eros.dgn		DRAWN -	REVISED -		SCALE: 1" = 50'	SHEET NO. 50 OF 147 SHEETS	STA. 385+00.00 TO STA. 398+50.00	8012	21(I-3)	SANGAMON	147	50
PLOT SCALE = 100.0000' / IN.		CHECKED -	REVISED -				CONTRACT NO. 72A02					
PLOT DATE = May-18-2009 03:18:28PM		DATE -	REVISED -						ILLINOIS FED. AID PROJECT			

- LEGEND**
-  - TEMPORARY EROSION CONTROL SEEDING
  -  - PERIMETER EROSION BARRIER
  -  - AGGREGATE DITCH CHECK
  -  - AGGREGATE EROSION CONTROL

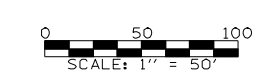


FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>STORM WATER POLLUTION PREVENTION PLAN</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
er:\pwork\PWIDOT\LAUGHLINRL\0143507\0672602-sht-eros.dgn	DRAWN -	REVISED -	8012					21(I-3)	SANGAMON	147	51	
PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -	SCALE: 1" = 50'			SHEET NO. 51 OF 147 SHEETS		STA. 9+50.00 TO STA. 19+20.00		CONTRACT NO. 72A02		
PLOT DATE = May-18-2009 03:19:08PM	DATE -	REVISED -						FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		




**LEGEND**

- TEMPORARY EROSION CONTROL SEEDING
- PERIMETER EROSION BARRIER
- AGGREGATE DITCH CHECK
- AGGREGATE EROSION CONTROL

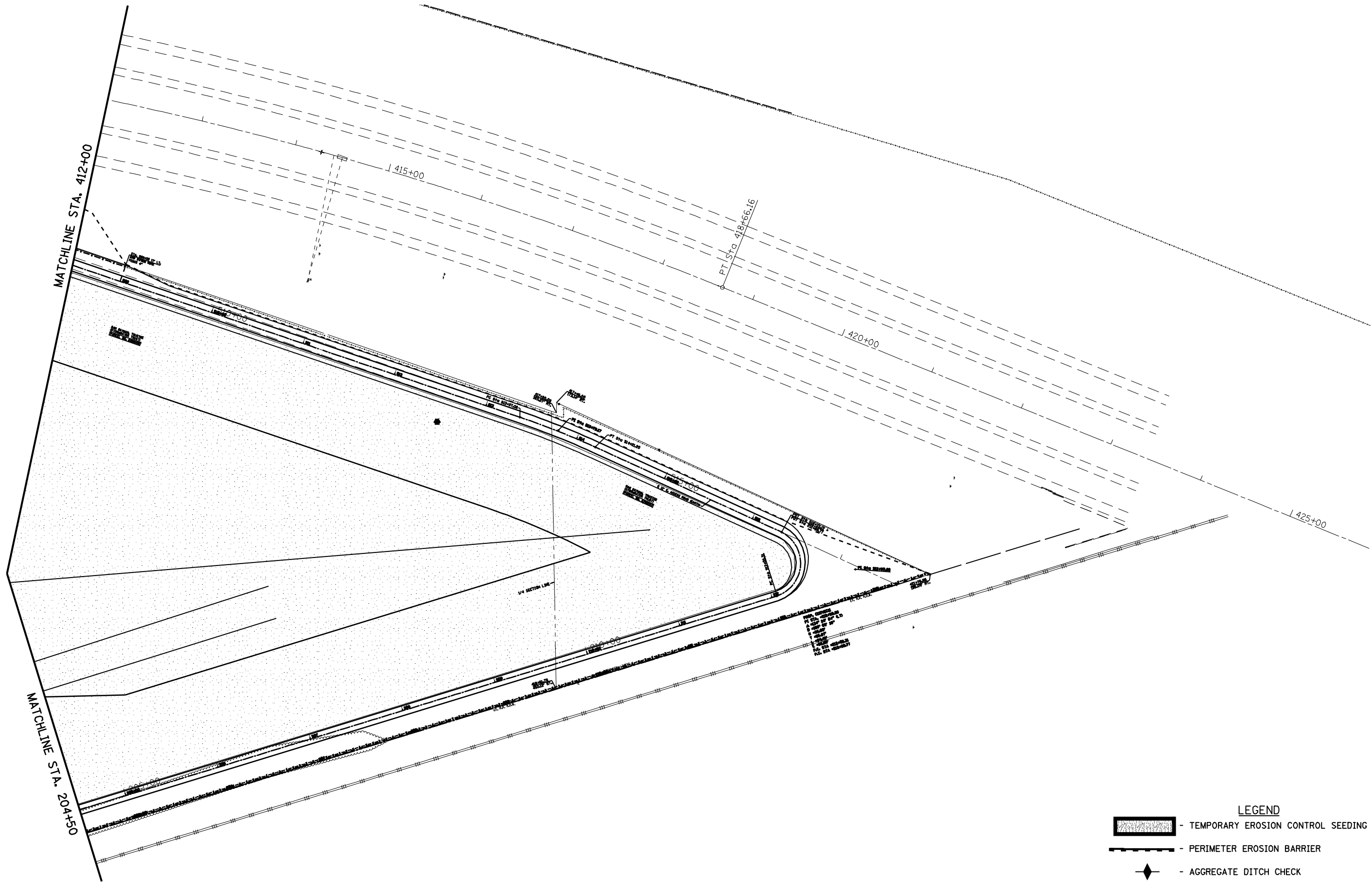


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	PLOT DATE = May-18-2009 03:19:11PM	DATE -	REVISED -






**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

**STORM WATER POLLUTION PREVENTION PLAN**  
 SCALE: 1" = 50'    SHEET NO. 52 OF 147 SHEETS    STA. 398+50.00 TO STA. 412+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	52
CONTRACT NO. 72A02				
FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT				



**LEGEND**

	- TEMPORARY EROSION CONTROL SEEDING
	- PERIMETER EROSION BARRIER
	- AGGREGATE DITCH CHECK
	- AGGREGATE EROSION CONTROL

0 50 100  
SCALE: 1" = 50'

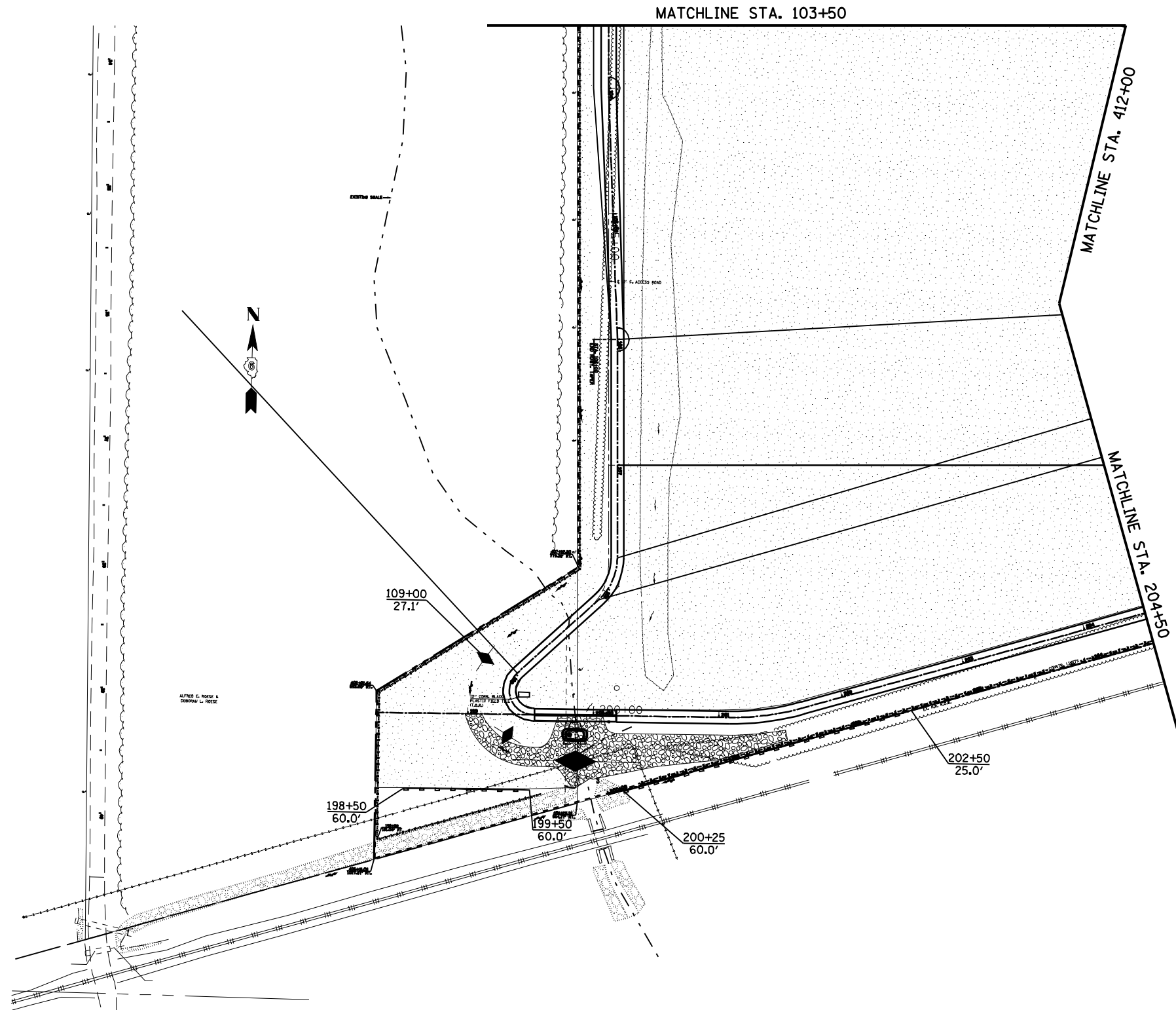
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -
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	PLOT DATE = May-18-2009 03:19:15PM	DATE -	REVISED -








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Civil and Structural Engineers Springfield, IL  
62703 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

STORM WATER POLLUTION PREVENTION PLAN			
SCALE: 1" = 50'	SHEET NO. 53 OF 147 SHEETS	STA. 412+00.00 TO STA. 425+00.00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	53
CONTRACT NO. 72A02				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



- LEGEND**
-  - TEMPORARY EROSION CONTROL SEEDING
  -  - PERIMETER EROSION BARRIER
  -  - AGGREGATE DITCH CHECK
  -  - AGGREGATE EROSION CONTROL
  -  - EARTH EXCAVATION FOR EROSION CONTROL (SETTLING BASIN)

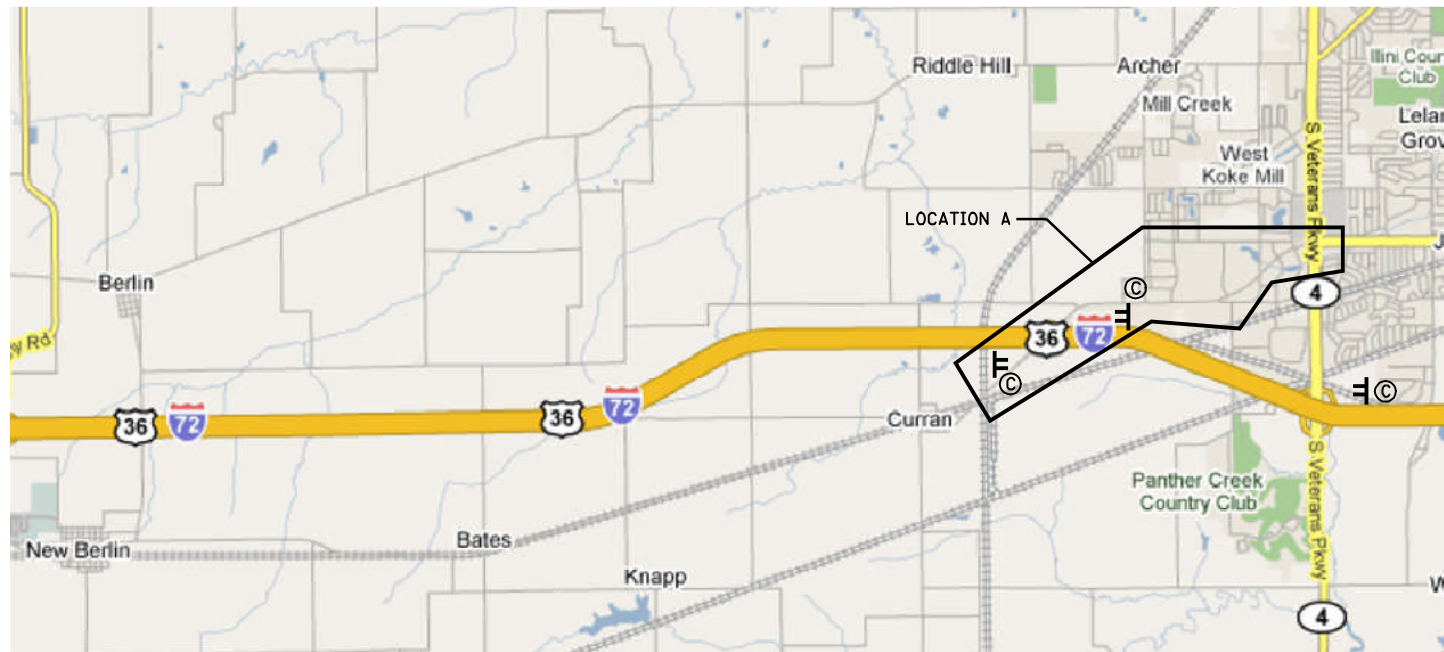
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	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = May-18-2009 03:19:19PM	DATE -	REVISED -

**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

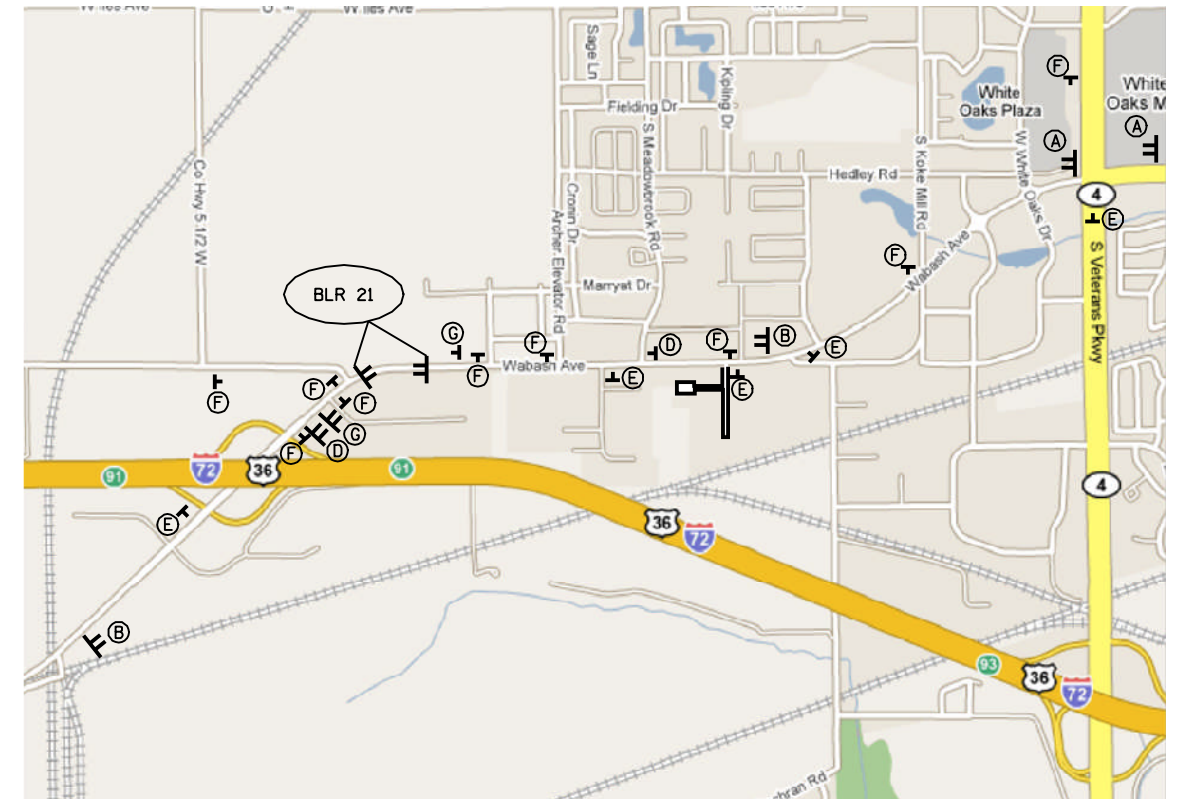
**STORM WATER POLLUTION PREVENTION PLAN**

SCALE: 1" = 50' SHEET NO. 54 OF 147 SHEETS STA. 103+50.00 TO STA. 204+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	54
CONTRACT NO. 72A02				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



ROAD CLOSED SIGNING LOCATIONS - WABASH AVENUE



LOCATION A - WABASH AVENUE

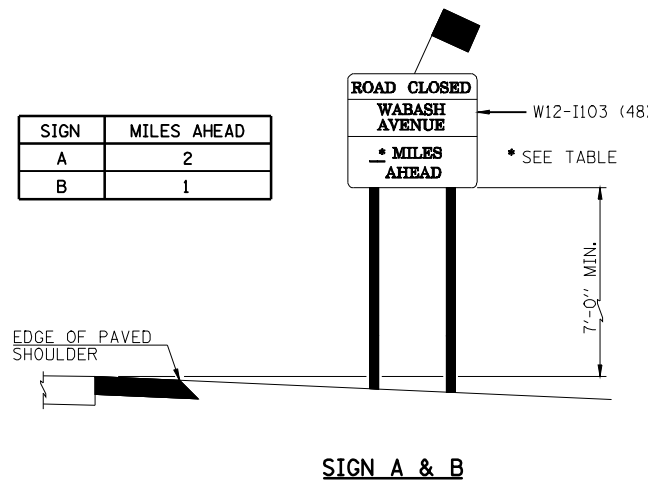
**SUGGESTED CONSTRUCTION SEQUENCE**

**WORK DONE UNDER ROAD CLOSURE (WABASH AVENUE)**

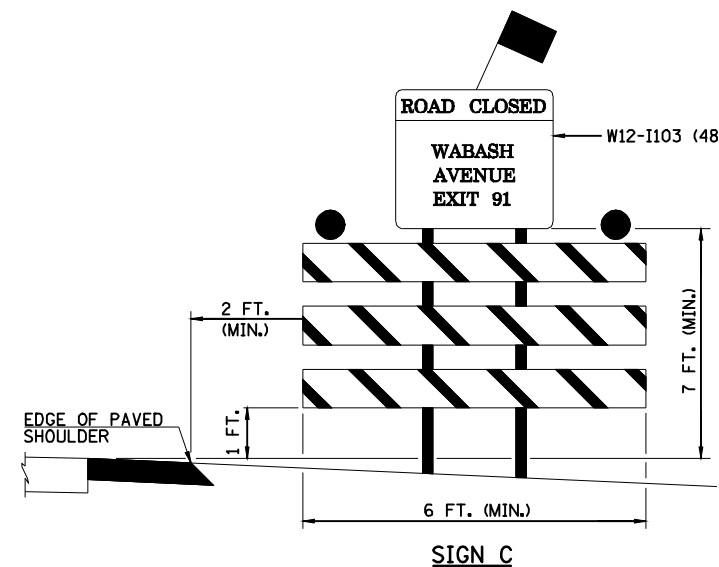
- 1.) THE CONTRACTOR SHALL PLACE ROAD CLOSED SIGNS IN ACCORDANCE WITH THIS SHEET AND STANDARD BLR 21.
- 2.) REMOVE EXISTING PAVEMENT AND PAVED SHOULDERS FROM STA. 398+05 TO STA. 398+45 AND EXISTING PAVEMENT FROM OLD BUNKER HILL ROAD.
- 3.) REMOVE EXISTING STRUCTURE STA. 398+25.
- 4.) INSTALL PRECAST CONCRETE BOX CULVERT AND GRANULAR CULVERT BACKFILL STA. 398+25.
- 5.) INSTALL CLASS D PATCH, TYPE IV, 14" STA. 398+05 TO STA. 398+45.
- 6.) THE CONTRACTOR SHALL OPEN THE ROAD TO TRAFFIC AND COMPLETE REMAINING WORK UNDER FLAGGERS.

**WORK DONE UNDER FLAGGERS (WABASH AVENUE)**

- 1.) FINISH INSTALLING ANY PRECAST CONCRETE BOX CULVERT AND GRANULAR BACKFILL, IF ANY, AND ALSO INSTALL 24" Ø & 36" Ø R.C.C.P. CULVERTS.
- 2.) CONSTRUCT CAST IN PLACE CONCRETE END SECTIONS AND PIPE HANDRAIL STA. 398+25.
- 3.) SHAPE AND GRADE EARTH FOR SHOULDERS, DITCHES AND ENTRANCES STA. 398+25 TO STA. 400+05.
- 4.) CONSTRUCT AGGREGATE SHOULDERS STA. 398+05 TO STA. 398+45 LT. & RT. AND PCC ENTRANCE, STA. 398+70 RT.
- 5.) REMOVE AND CONSTRUCT NEW SIDEWALK STA. 397+76 TO STA. 403+93.3 RT.
- 6.) FINAL STRIPING, SEEDING AND MISCELLANEOUS CLEANUP.

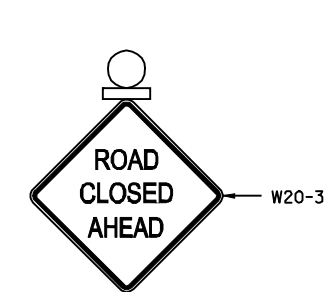


SIGN A & B

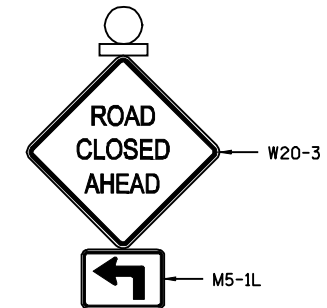


SIGN C

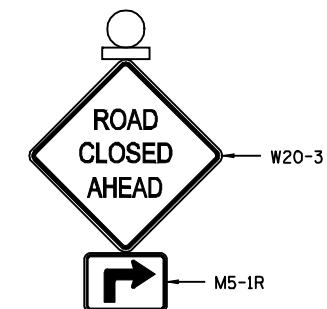
NOTE: AT ALL LOCATIONS FOR SIGN A, B & C, TWO SIGNS WILL BE PLACED, ONE ON EACH SIDE OF THE INTERSTATE/ROADWAY.



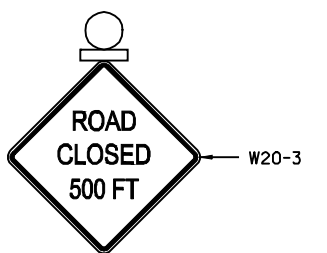
SIGN D  
WITH FLASHING LIGHT



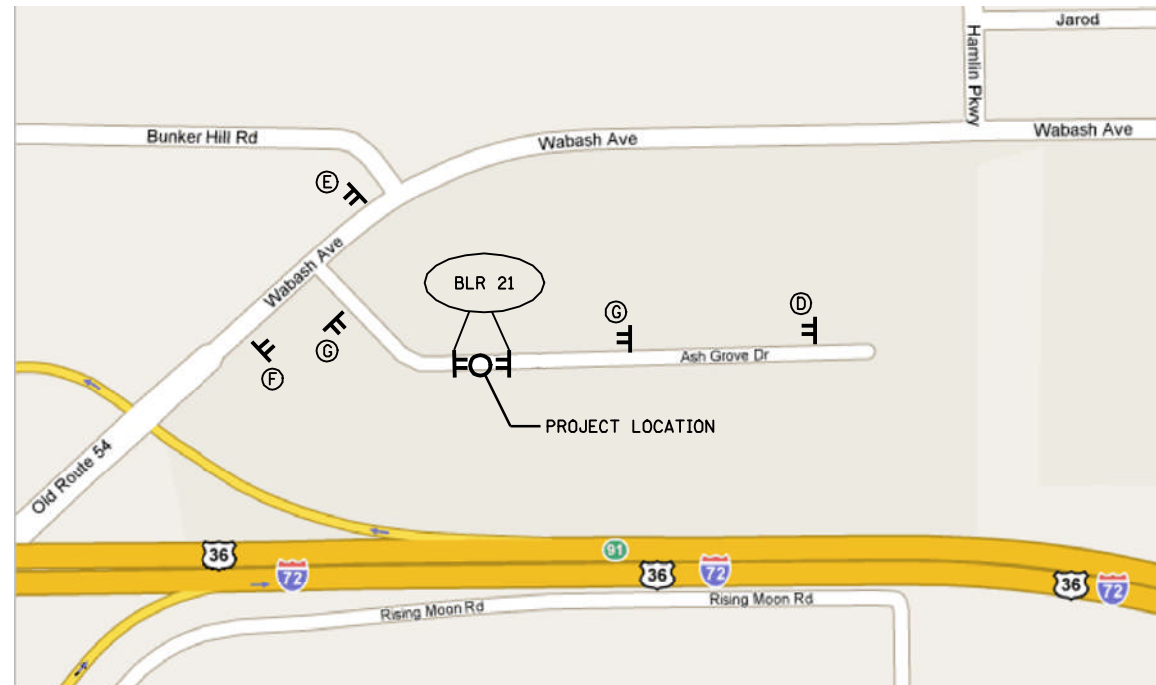
SIGN E  
WITH FLASHING LIGHT



SIGN F  
WITH FLASHING LIGHT



SIGN G  
WITH FLASHING LIGHT



**ROAD CLOSED SIGNING LOCATIONS - ASH GROVE DRIVE**

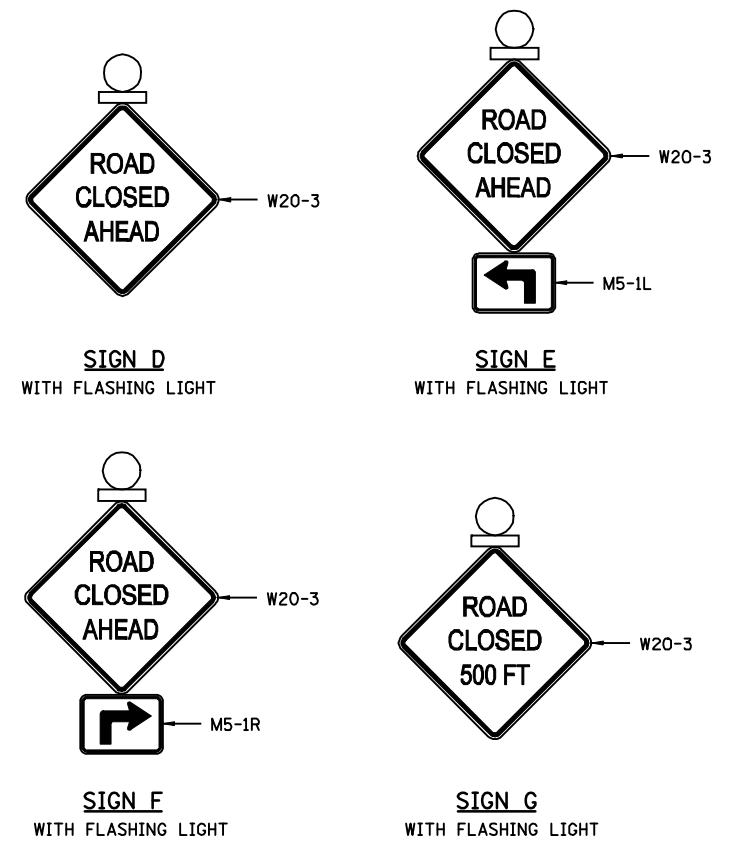
**SUGGESTED CONSTRUCTION SEQUENCE**

**WORK DONE UNDER ROAD CLOSURE (ASH GROVE DRIVE)**

- 1.) THE CONTRACTOR SHALL PLACE ROAD CLOSED SIGNS IN ACCORDANCE WITH THIS SHEET AND STANDARD BLR 21.
- 2.) REMOVE EXISTING PAVEMENT FROM STA. 17+25 TO STA. 17+63.
- 3.) REMOVE EXISTING CURB AND GUTTER AND SIDEWALK STA. 17+25 TO STA. 18+05 LT. & RT. & STA. 17+95 LT. & RT..
- 4.) INSTALL PRECAST CONCRETE BOX CULVERT AND EMBANKMENT STA. 17+43.86.
- 5.) INSTALL CLASS D PATCH 10" & GRANULAR CULVERT BACKFILL STA. 17+25 TO STA 17+63.
- 6.) INSTALL COMBINATION CURB AND GUTTER STA. 17+25 TO STA. 18+05.
- 7.) THE CONTRACTOR SHALL OPEN THE ROAD TO TRAFFIC AND COMPLETE REMAINING WORK UNDER FLAGGERS.

**WORK DONE UNDER FLAGGERS (ASH GROVE DRIVE)**

- 1.) FINISH INSTALLING ANY REMAINING PRECAST CONCRETE BOX CULVERT.
- 2.) CONSTRUCT CAST IN PLACE CONCRETE END SECTIONS AND PIPE HANDRAIL STA. 17+43.86.
- 3.) INSTALL NEW P.C.C. DRIVEWAY PAVEMENT 8" STA. 17+83 LT. AND NEW P.C.C. SIDEWALK STA. 17+25 TO STA. 18+05 LT. & RT.
- 3.) SHAPE AND GRADE EARTH FOR SHOULDERS AND ENTRANCES STA. 17+25 TO STA. 18+05.
- 4.) FINAL STRIPING, SEEDING AND MISCELLANEOUS CLEANUP.



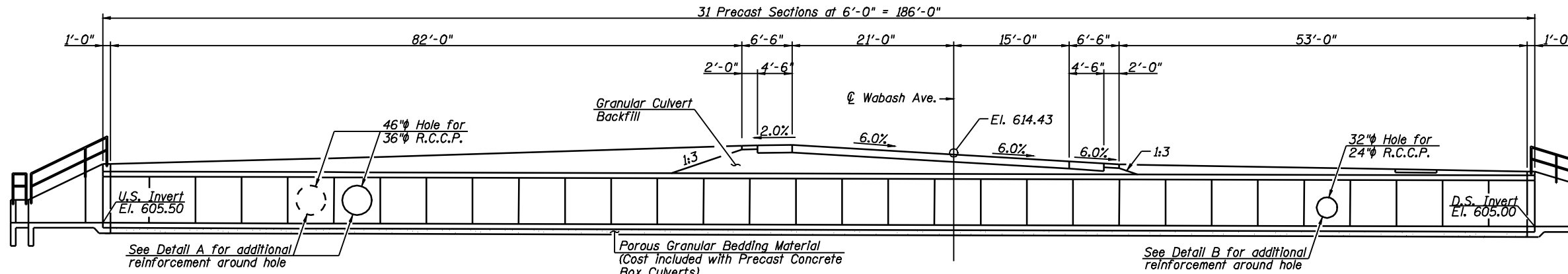
FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<p><b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	<b>TRAFFIC CONTROL PLAN</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pwork\pwork\LAUGHLINRL\0143507\0672402-SHT-TCP.dgn	DRAWN -	REVISED -	8012				21(I-3)	SANGAMON	147	56	
PLOT SCALE = 2.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 72A02								
PLOT DATE = May-18-2009 03:19:28PM	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								



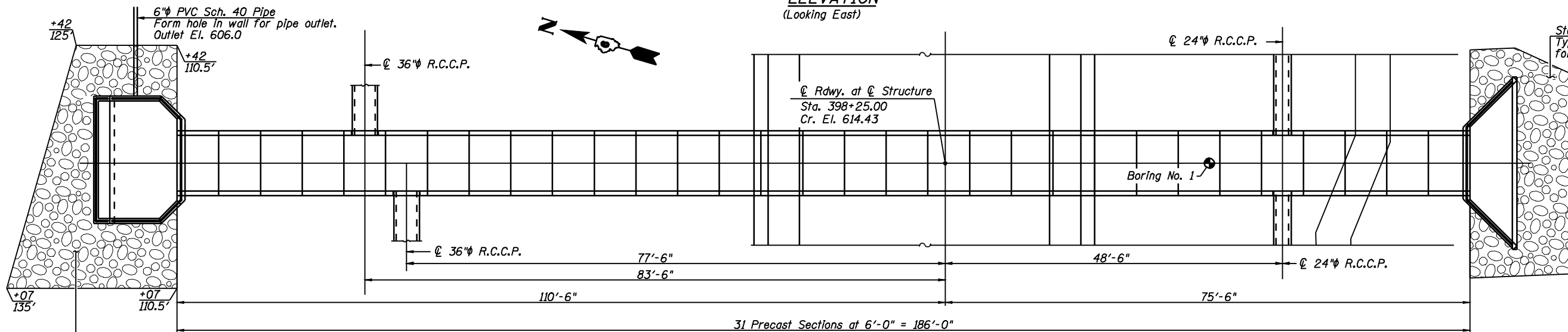
Benchmark #68: Chiseled "□" in east end of south concrete headwall under old concrete pavement in triangle formed by Wabash Ave. and Bunker Hill Road and old concrete pavement at Sta. 396+74.8, 113.8' Lt., El. 613.548  
 Benchmark #100: Chiseled "□" in center of south concrete headwall of 24" culvert under westbound offramp ±455' N.E. along Wabash Ave. from I-72, El. 615.58

**GENERAL NOTES**

Reinforcement bars shall conform to the requirements of A.S.T.M. A 706, Grade 60. See Special Provisions.  
 For backfilling and embankment, see Special Provisions.  
 Layout of the riprap may be varied in the field to suit ground conditions as directed by the Engineer.  
 Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.  
 Precast concrete box culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of A.A.S.H.T.O. M 273.  
 Precast End Sections will not be allowed. Cast in place concrete exposed edges shall be beveled 3/4".  
 All construction joints shall be bonded. Outside end of precast sections at the ends of the culvert shall not have a bell or spigot.



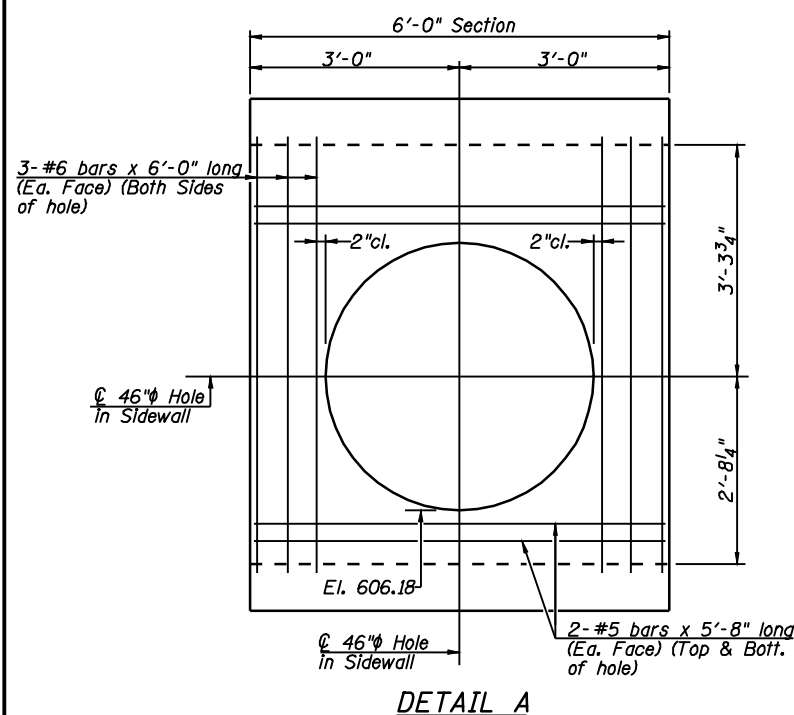
**ELEVATION**  
(Looking East)



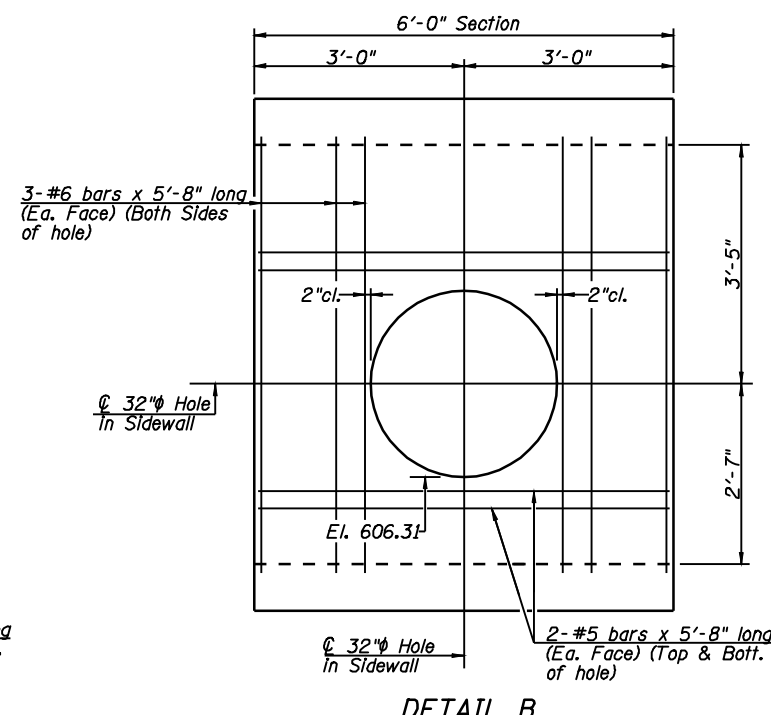
**PLAN**

**TOTAL BILL OF MATERIAL**

Item	Unit	Quantity
Precast Concrete Box Culverts 8' x 6'	Foot	186
Granular Culvert Backfill	Cu. Yd.	358
Pipe Handrail	Foot	80
Stone Dumped Riprap, Class A4	Ton	33
Filter Fabric	Sq. Yd.	49
Box Culvert End Section, Culvert No. 1	Each	2

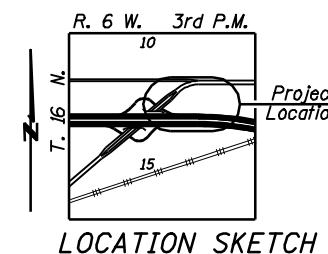


**DETAIL A**



**DETAIL B**

**LOADING HS20-44**  
 Allow for 50#/sq. ft. future wearing surface. Interstate loading is not required.  
 The design fill height for the precast box culverts is less than 2'.  
**DESIGN STRESSES**  
**FIELD UNITS**  
 $f'_c = 3,500$  p.s.i.  
 $f_y = 60,000$  p.s.i. (Reinforcement)  
**PRECAST UNITS**  
 $f'_c = 5,000$  p.s.i.  
 $f_y = 65,000$  p.s.i. (Welded Wire Fabric)



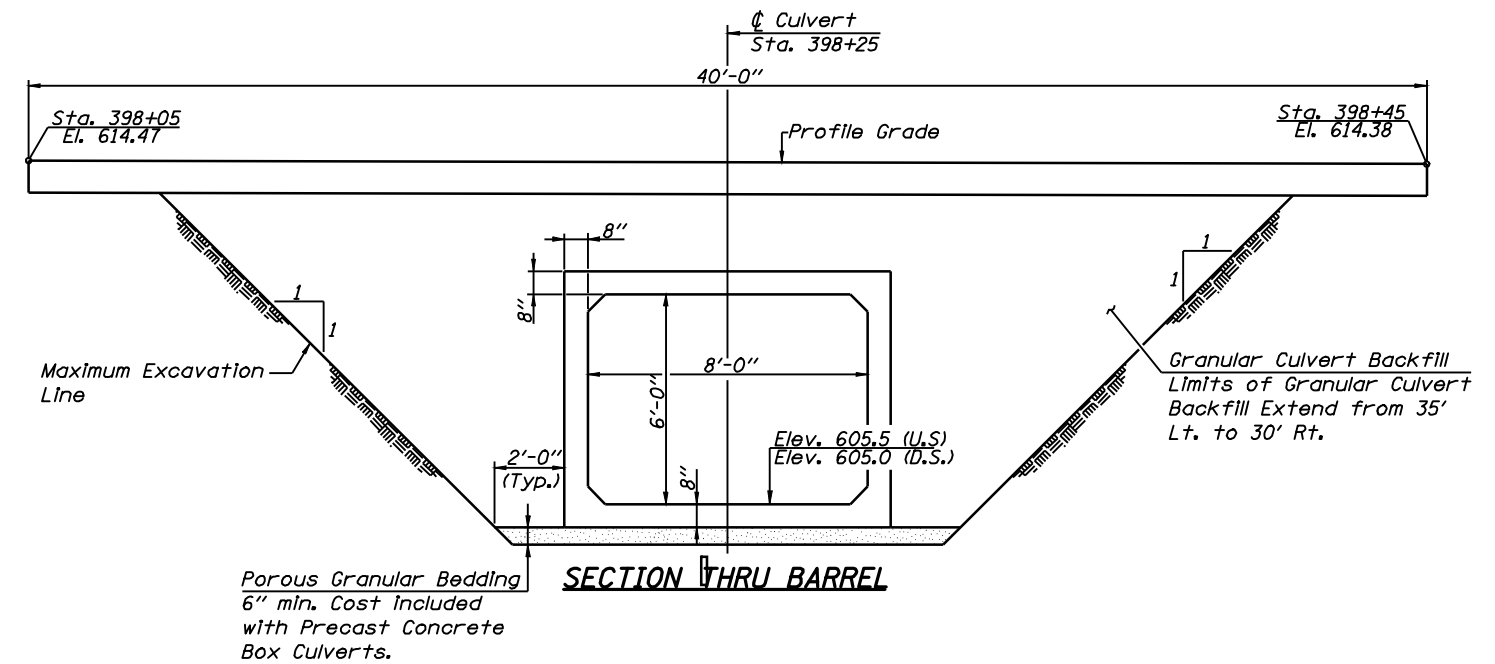
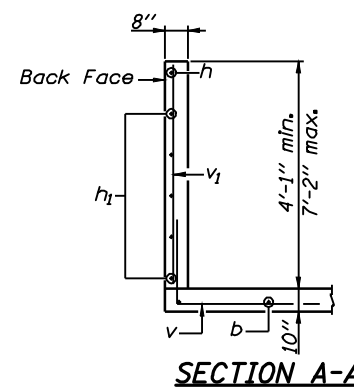
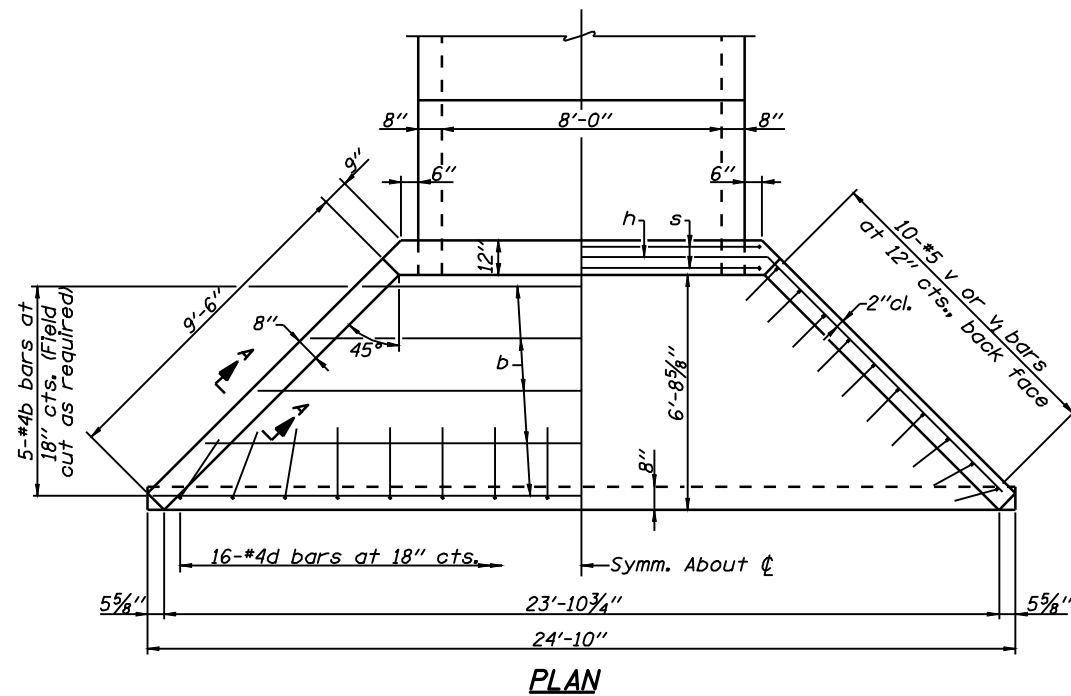
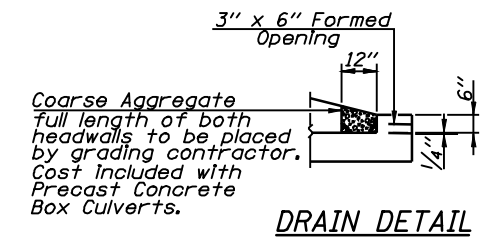
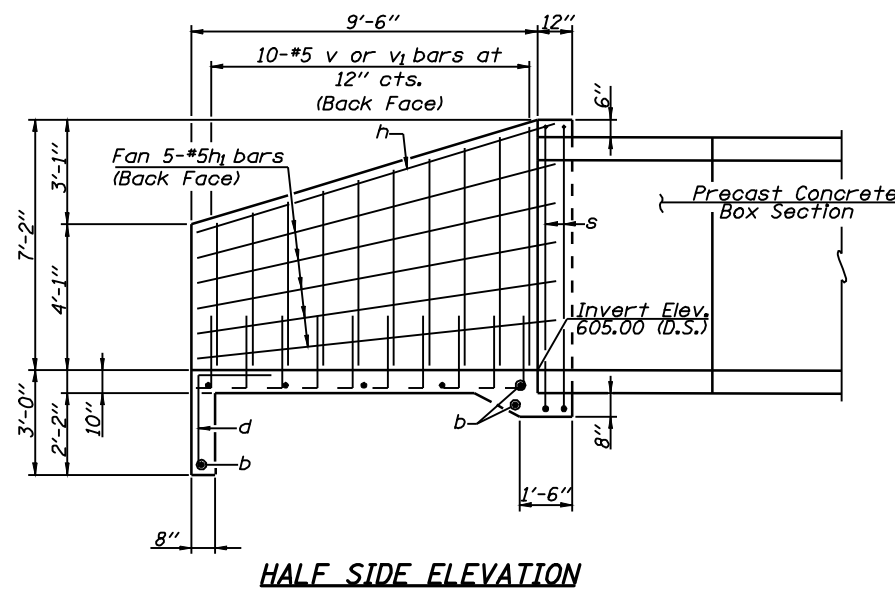
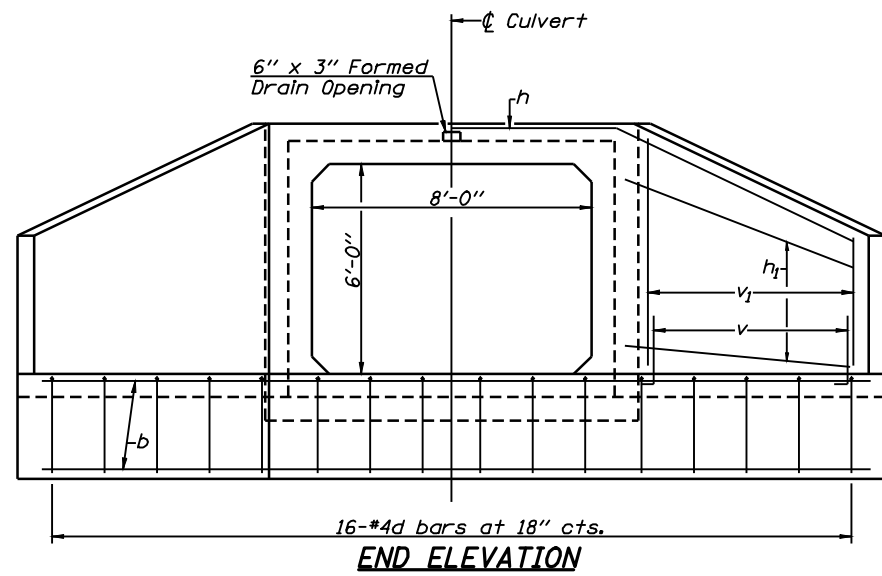
**GENERAL PLAN & ELEVATION**  
**WABASH AVENUE OVER**  
**WATERWAY NO. 1**  
**STA. 398+25.00**  
**SANGAMON COUNTY**




**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62708 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

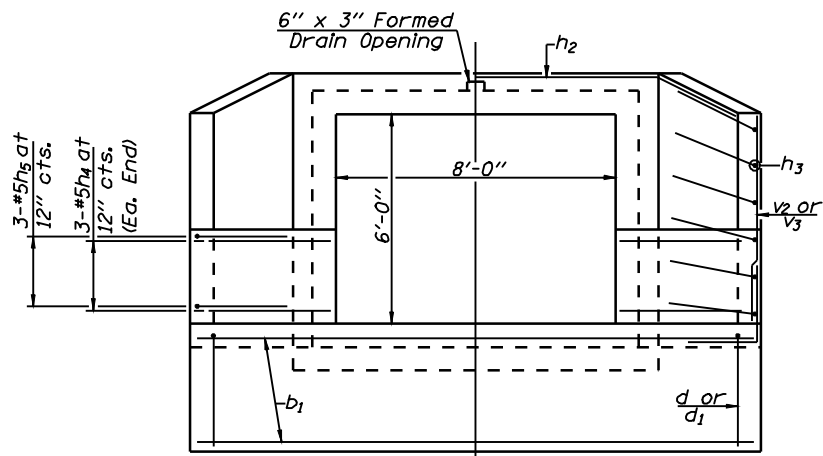
SHEET NO. 1  
 5 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 72A02				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

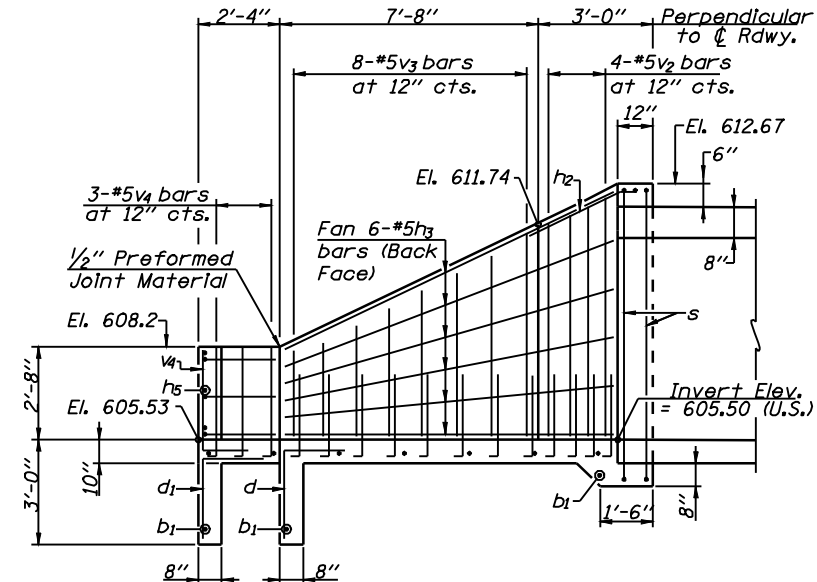


**CULVERT DETAILS**  
**WABASH AVENUE OVER**  
**WATERWAY NO. 1**  
**STA. 398+25.00**  
**SANGAMON COUNTY**

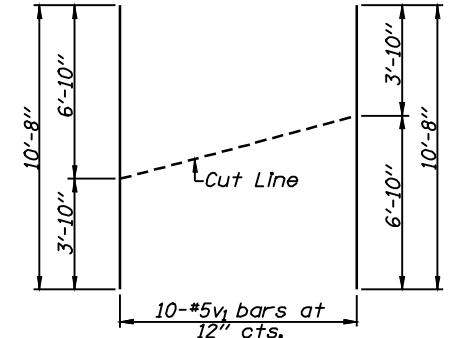
 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62708 Phone: (217)544-8033 IL Design Firm No. 184-001907	SHEET NO. 2  5 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		8012	21(I-3)	SANGAMON	147	58
CONTRACT NO. 72A02						
		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



END ELEVATION

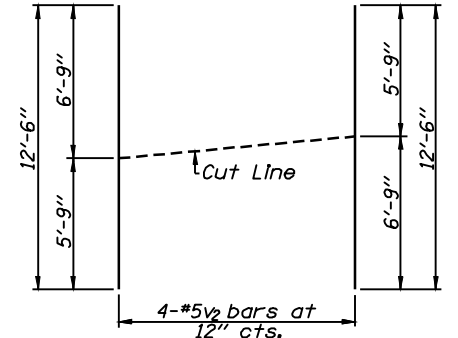


SIDE ELEVATION



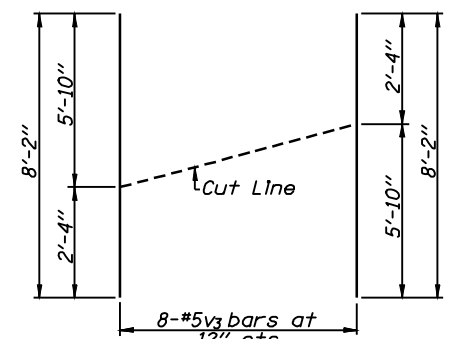
BAR v1 CUT DIAGRAM

Note: Order bars full length. Lay out in field as shown. Cut along cut line. Use remainder of v1 in opposite wing wall.



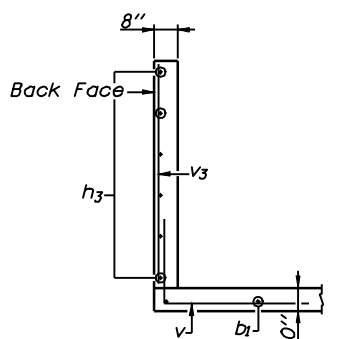
BAR v2 CUT DIAGRAM

Note: Order bars full length. Lay out in field as shown. Cut along cut line. Use remainder of v2 in opposite wing wall.

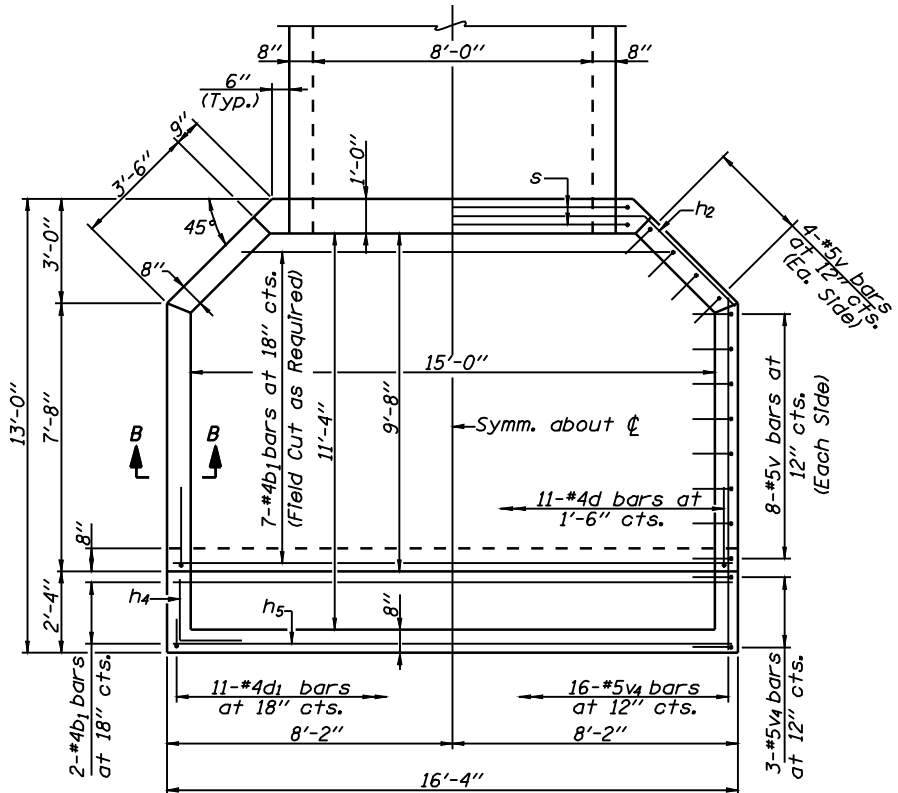


BAR v3 CUT DIAGRAM

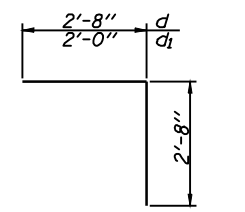
Note: Order bars full length. Lay out in field as shown. Cut along cut line. Use remainder of v3 in opposite wing wall.



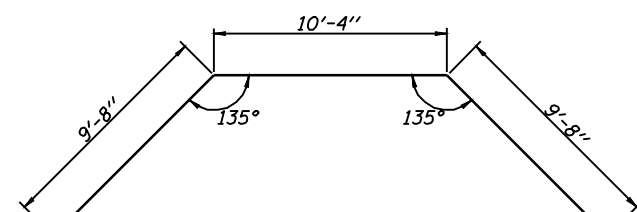
SECTION B-B



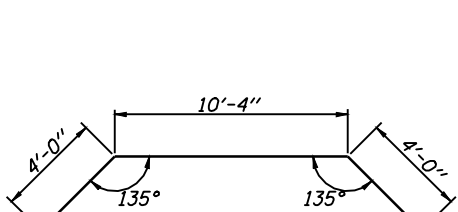
PLAN



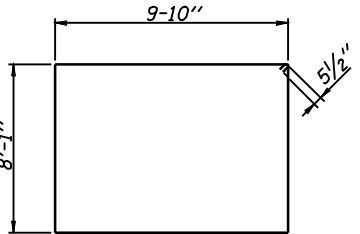
BARS d & d1



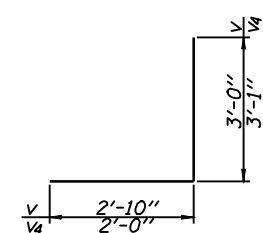
BAR h



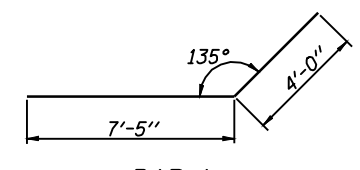
BAR h2



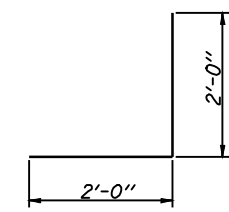
BAR s



BARS v & v4



BAR h3



BAR h4

TWO END SECTIONS  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b	7	#4	24'-6"	—
b1	12	#4	16'-0"	—
d	27	#4	5'-4"	┘
d1	11	#4	4'-8"	┘
h	1	#5	29'-8"	∩
h1	10	#5	9'-8"	—
h2	1	#5	18'-4"	∩
h3	12	#5	11'-5"	—
h4	6	#5	4'-0"	┘
h5	3	#5	16'-0"	—
s	4	#5	36'-9"	□
v	44	#5	5'-10"	┘
v1	10	#5	10'-8"	—
v2	4	#5	12'-6"	—
v3	8	#5	8'-2"	—
v4	22	#5	5'-1"	┘
Concrete Box Culverts			Cu. Yd.	22.0
Reinforcement Bars			Pound	1511

(Bill of Material for information only. Concrete and reinforcement included with Box Culvert End Sections.)

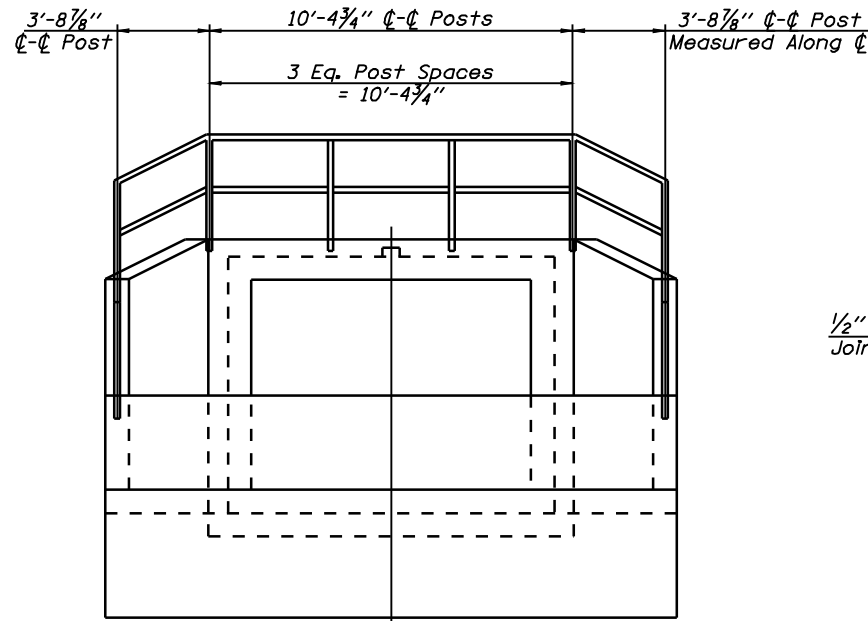
CULVERT DETAILS  
WABASH AVENUE OVER  
WATERWAY NO. 1  
STA. 398+25.00  
SANGAMON COUNTY



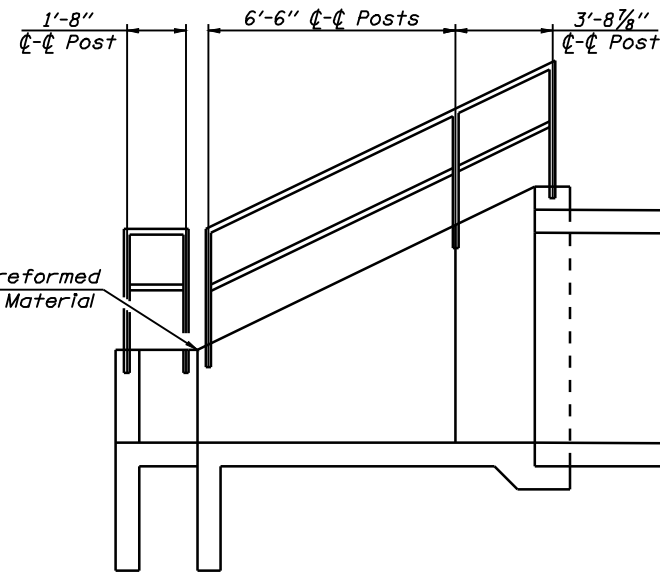
Allen Henderson & Associates, Inc.  
Civil and Structural Engineers Springfield, IL  
62708 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

SHEET NO. 3  
5 SHEETS

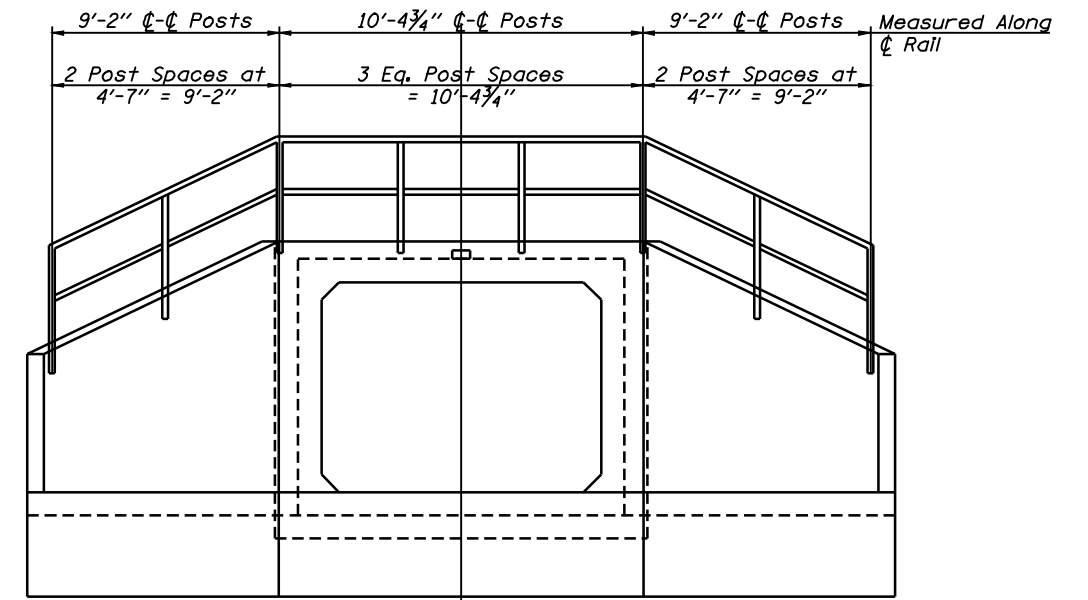
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	59
CONTRACT NO. 72A02				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



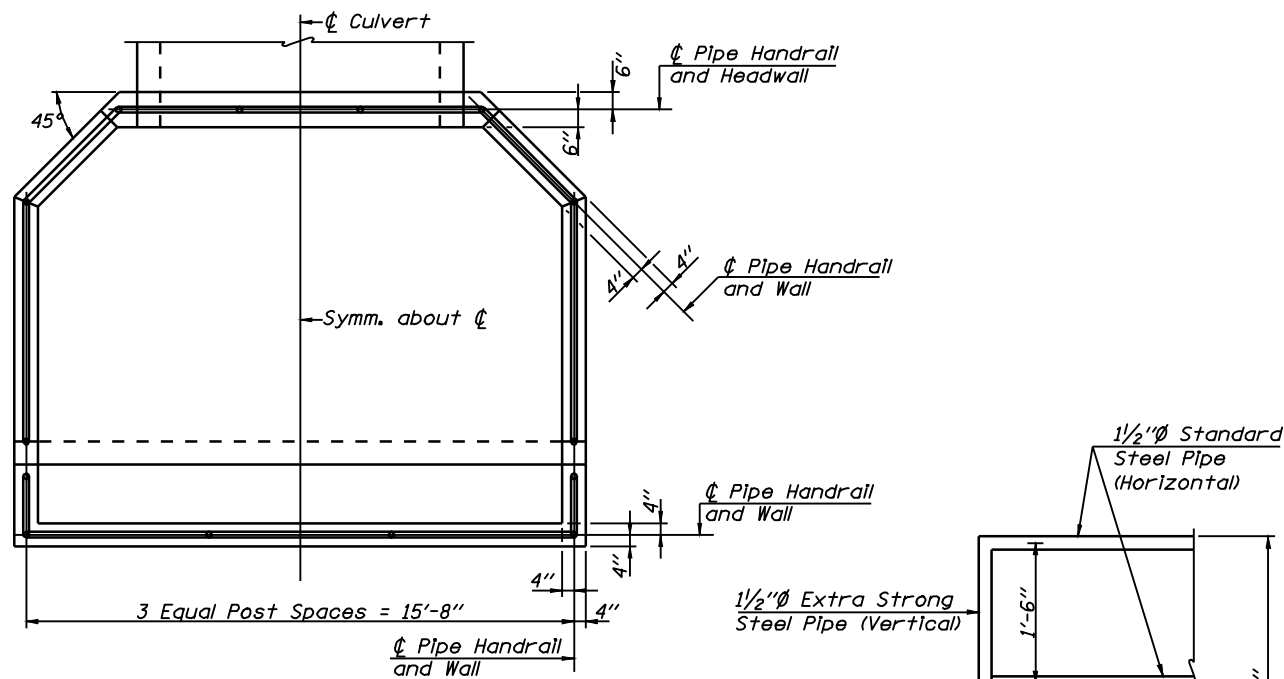
**END ELEVATION**  
(Upstream End)



**SIDE ELEVATION**  
(Upstream End)



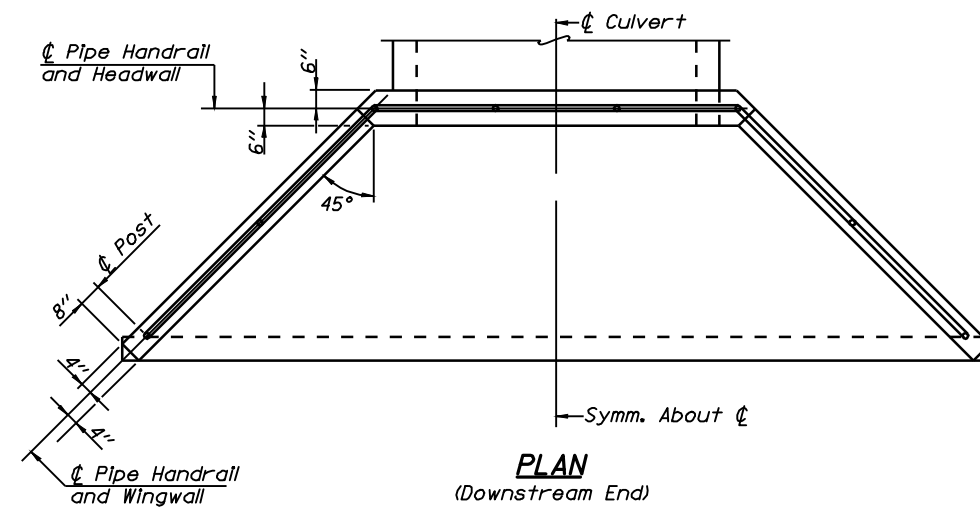
**END ELEVATION**  
(Downstream End)



**PLAN**  
(Upstream End)

**RAILING DETAIL**

Anchor posts set in insert approved by the Engineer with quick setting concrete grout in 2 1/4"Ø (min.) pocket. Cost Included with "Pipe Handrail".



**PLAN**  
(Downstream End)

**NOTES**

Handrail shall conform to the requirements of Section 509 of the Standard Specifications.  
The Pipe Handrail shall be painted in accordance with Section 506 of the Standard Specifications. The finish coat shall match Munsell Glossy Color 5B 7/1 Gray.  
All steel pipe to be ASTM A53.  
The unit cost per lined foot for Pipe Handrail shall include furnishing and installing the posts, sleeves, fittings, grout, pipe, primer and paint.

**BILL OF MATERIAL**

Item	Unit	Quantity
Pipe Handrail	Foot	80

**HANDRAIL DETAILS**  
**WABASH AVENUE OVER**  
**WATERWAY NO. 1**  
**STA. 398+25.00**  
**SANGAMON COUNTY**



**Allen Henderson & Associates, Inc.**  
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No. 184-001907

SHEET NO. 4  
5 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	60
CONTRACT NO. 72A02				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



Illinois Department  
of Transportation  
Division of Highways  
District 6

### SOIL BORING LOG

Page 1 of 1

Date 7/17/06

ROUTE FAP 8012 DESCRIPTION Wabash Avenue over Drains Ditch LOGGED BY M. Tappan

SECTION 21 LOCATION SE 1/4, SEC. 10, TWP. 15 N, RNG. 6 W, 6 PM

COUNTY Sangamon DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO.	None Assigned	D	B	U	M	Surface Water Elev.	N/A	ft	D	B	U	M
Station	398+25	E	L	C	O	Stream Bed Elev.	N/A	ft	E	L	C	O
BORING NO.	1	P	O	S	I	Groundwater Elev.:			P	O	S	I
Station	398+25	T	W	S		First Encounter	598.2	ft	T	W	S	
Offset	38.0ft Rt	H	S	Qu	T	Upon Completion	592.2	ft	H	S	Qu	T
Ground Surface Elev.	609.7	(ft)	/B"	(inf)	(%)	After 3 Days Hrs.	605.2	ft	(ft)	/B"	(inf)	(%)
Brown and Grey Moist SILTY CLAY						Greyish Brown Moist CLAY LOAM (TII) (continued)						
		2							5			
		3	1.9		27				23	7.3		11
		4	B						28	S-11		
	608.70											
Tan and Light Grey Moist SILT												
		1							6			
		2	1.1		24				14	7.1		10
		3	S-13						22	S-13		
	604.20											
Tan and Light Grey Moist SILT LOAM						Boring Completed						
		1				Refer Elevation to STA 398+25,						
		1	1.0		26	c.l. = 614.4'						
		3	B			Refer STA to STA 398+25						
	601.70					Printed on Road						
Light Brown and Grey Moist SILTY CLAY												
		1										
		1	0.4		25							
		2	B									
		-10										
Free Water												
		0										
		0	0.3		28							
		2	B									
	598.70											
Brown and Grey Moist CLAY (TII)												
		1										
		1	0.7		28							
		-15	B									
		0										
Olive Brown and Blue Grey												
		1	0.4		23							
		1	B									
	591.70											
Greyish Brown Moist CLAY LOAM (TII)												
		2										
		5	4.6		15							
		8	S-10									
		-20										

File Name: S:\PROJECTS\2006\200607\20060701\WABASH AVENUE OVER DRAIN DITCH AT 398+25\BLOG.DWG Date Printed: 8/20/06  
 Labeled as Log 4-100 17 Lengths in Log 4-100 17 Station: 398+25.00 Station 398+25.00

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
 Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

**BORINGS**  
**WABASH AVENUE OVER**  
**WATERWAY NO. 1**  
**STA. 398+25.00**  
**SANGAMON COUNTY**

 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62708 Phone: (217)544-8033 IL Design Firm No. 184-001907	SHEET NO. 5		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	5 SHEETS		8012	21(I-3)	SANGAMON	147	61
	CONTRACT NO. 72A02					FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

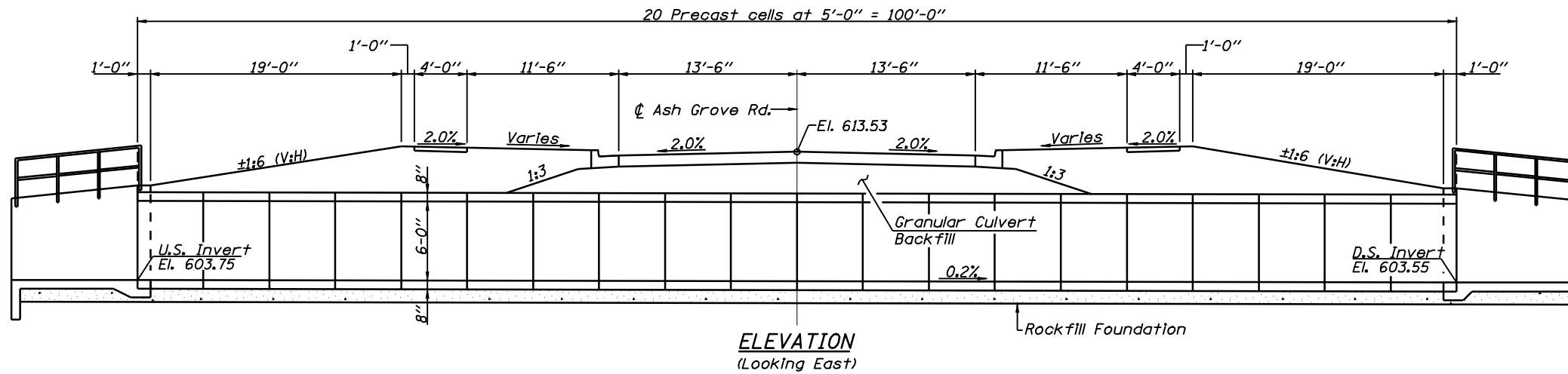
Benchmark #TA-9: Chiseled "□" In North edge of future signal foundation at southwest quad Wabash Avenue and Ash Grove Road El. 616.623

**TOTAL BILL OF MATERIAL**

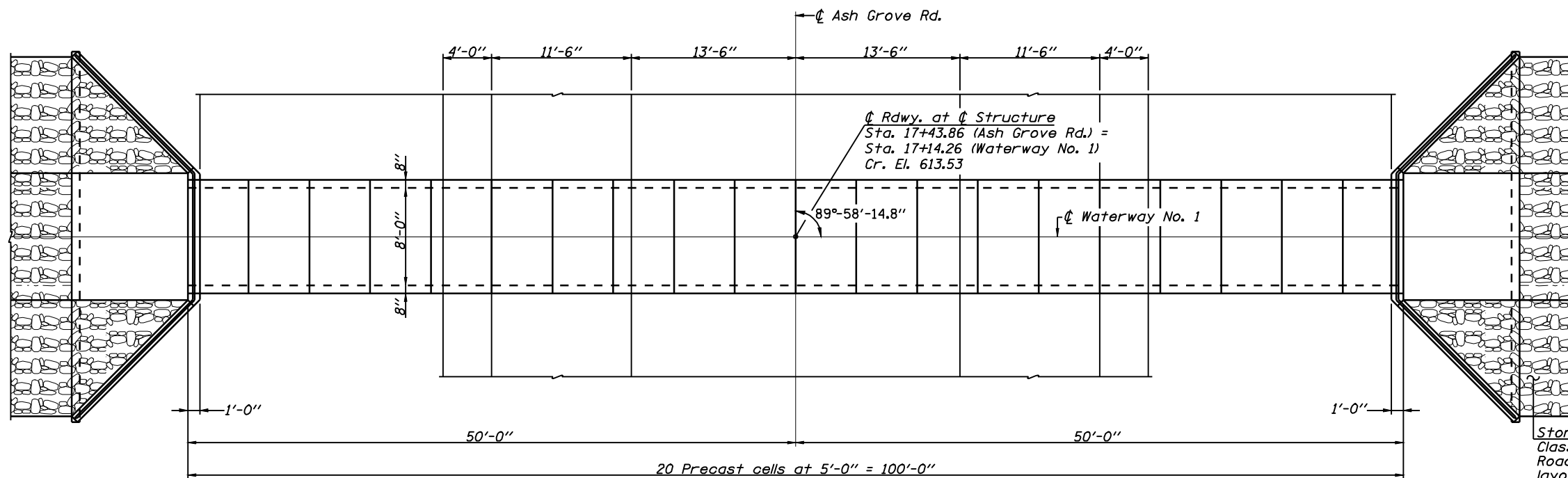
Item	Unit	Quantity
Precast Concrete Box Culverts 8' x 6'	Foot	100
Rockfill Foundation	Ton	92
Pipe Handrail	Foot	74
Granular Culvert Backfill	Cu. Yd.	358
Box Culvert End Section, Culvert No. 2	Each	2

**GENERAL NOTES**

Reinforcement bars shall conform to the requirements of A.S.T.M. A 706, Grade 60. See Special Provisions.  
 For backfilling and embankment, see Special Provisions.  
 Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.  
 Precast concrete box culvert sections shall conform to the requirements of Article 540.06 of the Standard Specifications and the applicable requirements of A.A.S.H.T.O. M 259.  
 Precast End Sections will not be allowed.  
 Cast in place concrete exposed edges shall be beveled 3/4".  
 All construction joints shall be bonded.  
 Outside end of precast sections at the ends of the culvert shall not have a bell or spigot.  
 Rockfill Foundation will be required beneath the culvert.  
 The Engineer will determine the required depth following excavation to plan grades.



**ELEVATION**  
(Looking East)



**PLAN**

Stone Dumped Riprap, Class A3 Typ. (See Roadway Plans for layout and quantity)

**LOADING HS20-44**  
 Allow for 50\*/sq. ft. future wearing surface. Interstate loading is not required. The design fill height for the precast box culvert is 2'.

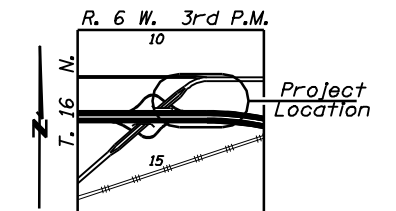
**DESIGN STRESSES**

**FIELD UNITS**

f'c = 3,500 p.s.i.  
 fy = 60,000 p.s.i. (Reinforcement)

**PRECAST UNITS**

f'c = 5000 p.s.i.  
 fy = 65000 p.s.i. (Welded Wire Fabric)



**LOCATION SKETCH**

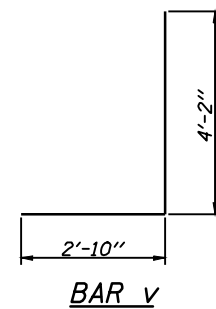
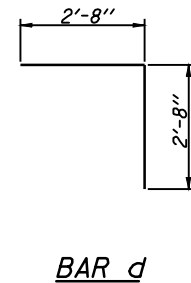
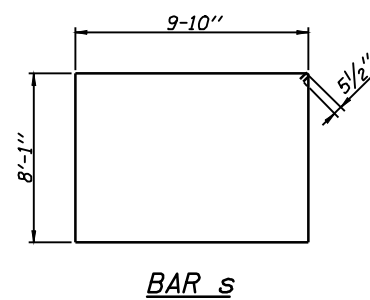
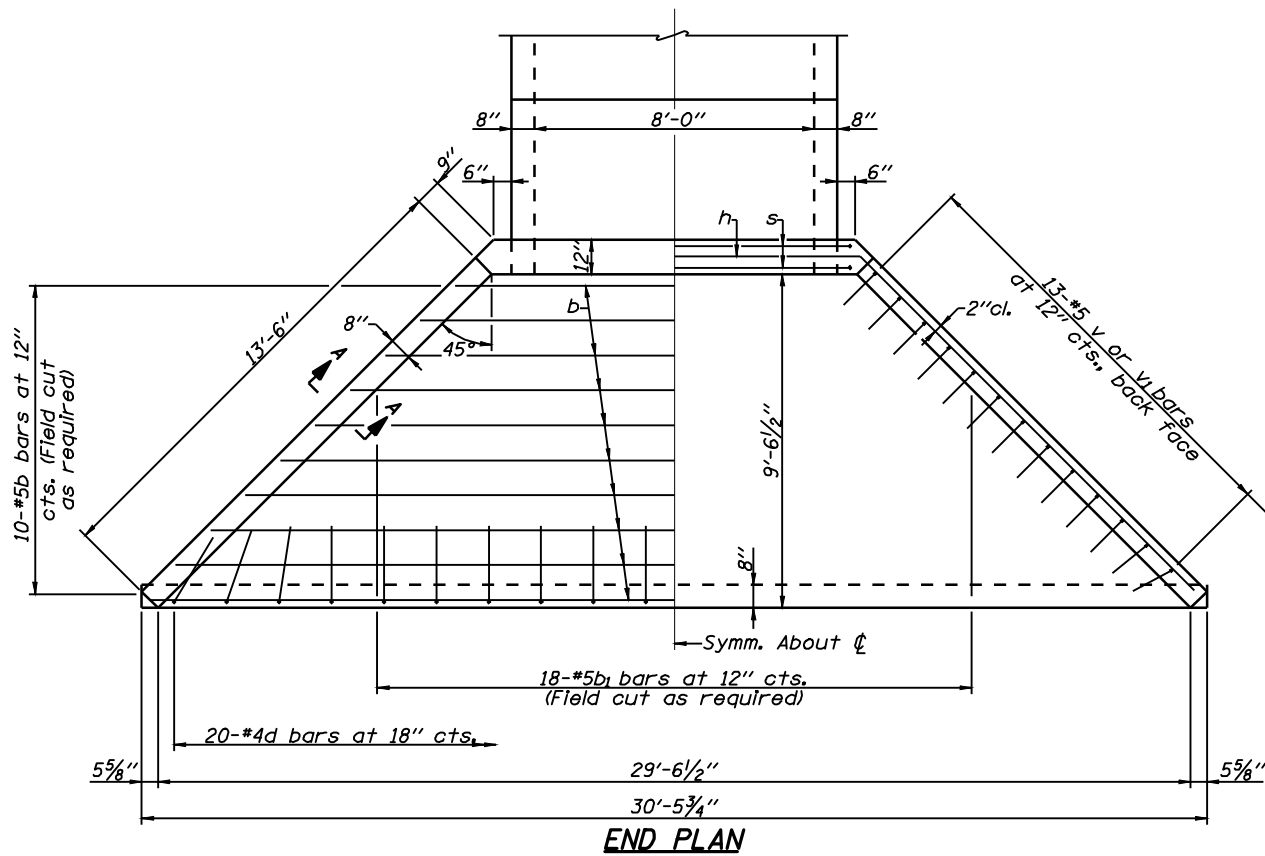
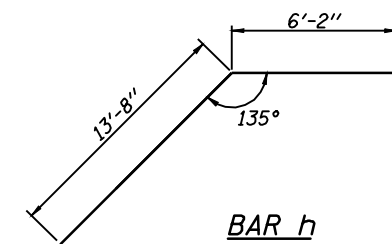
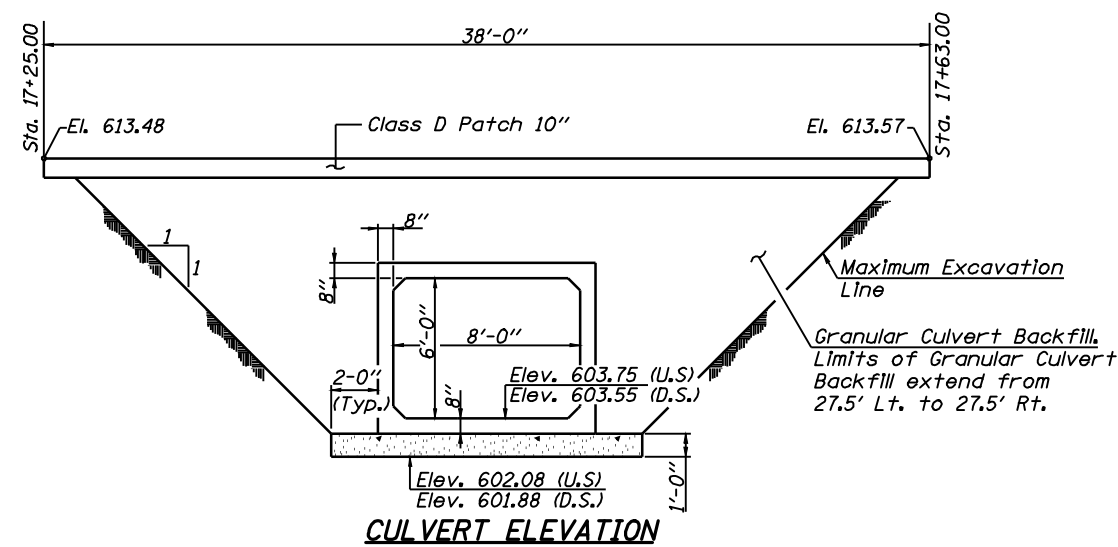
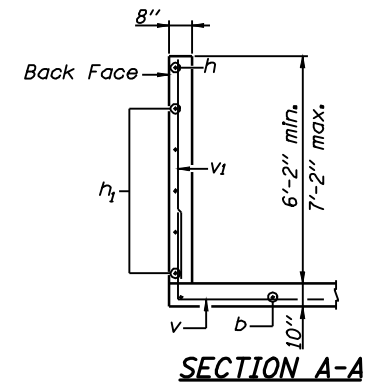
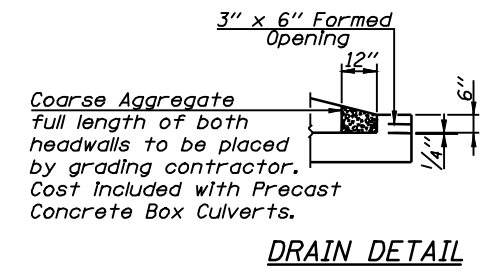
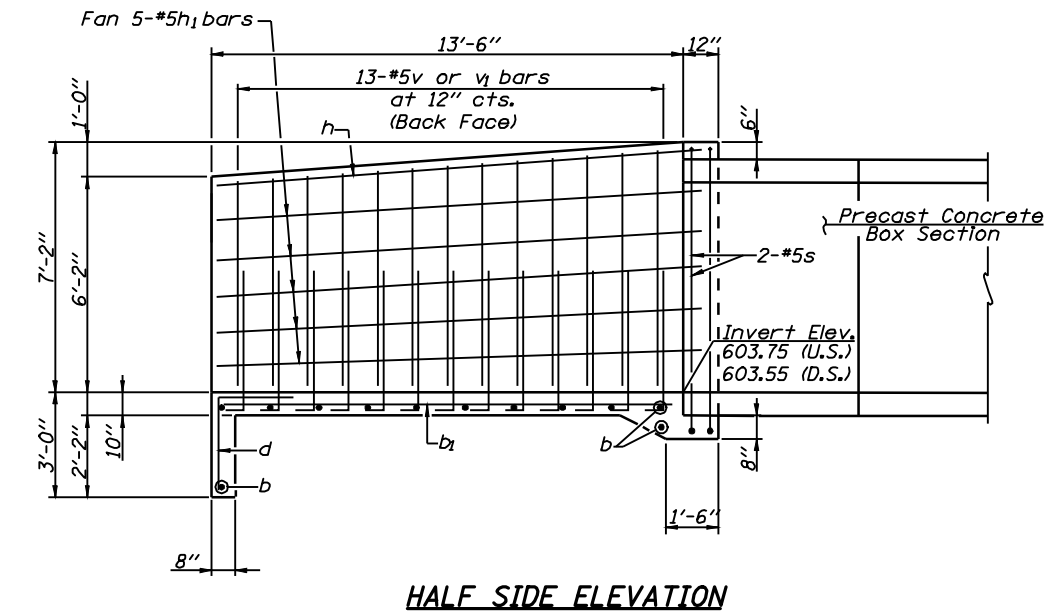
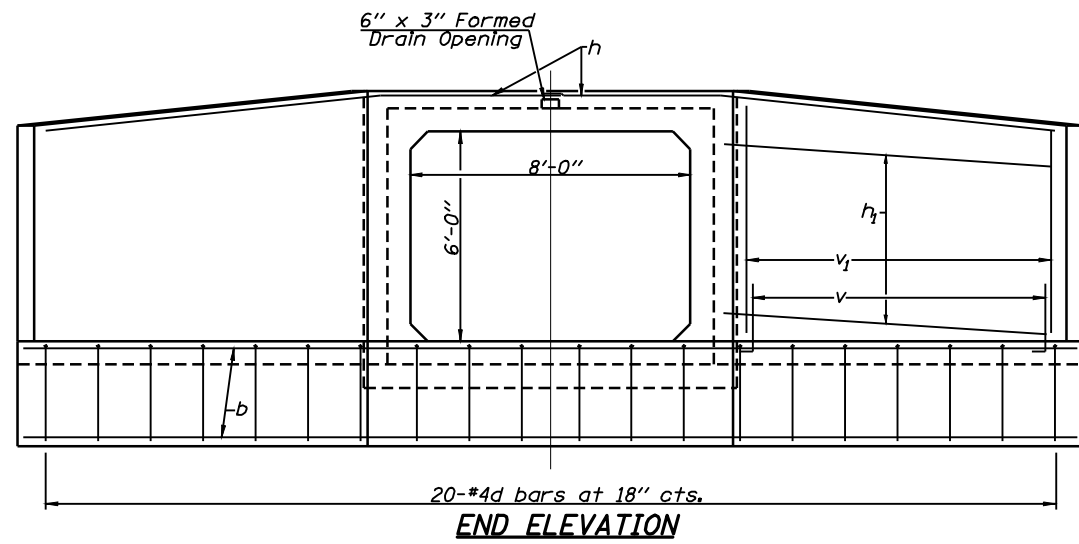
**GENERAL PLAN AND ELEVATION  
 ASH GROVE ROAD OVER  
 WATERWAY NO. 1  
 STA. 17+43.86  
 SANGAMON COUNTY**



**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62708 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

SHEET NO. 1  
 3 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	62
CONTRACT NO. 72A02				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**BILL OF MATERIAL TWO END SECTIONS**

Bar	No.	Size	Length	Shape
b	24	#5	30'-0"	—
b <sub>1</sub>	36	#5	9'-2"	—
d	40	#4	5'-4"	┘
h	4	#5	19'-10"	┘
h <sub>1</sub>	20	#5	13'-8"	—
s	4	#5	36'-9"	□
v	52	#5	7'-0"	┘
v <sub>1</sub>	52	#5	5'-8"	—
Concrete Box Culverts			Cu. Yd.	28.9
Reinforcement Bars			Pound	2445

(Bill of Material for information only. Concrete and reinforcement included with Box Culvert End Sections.)

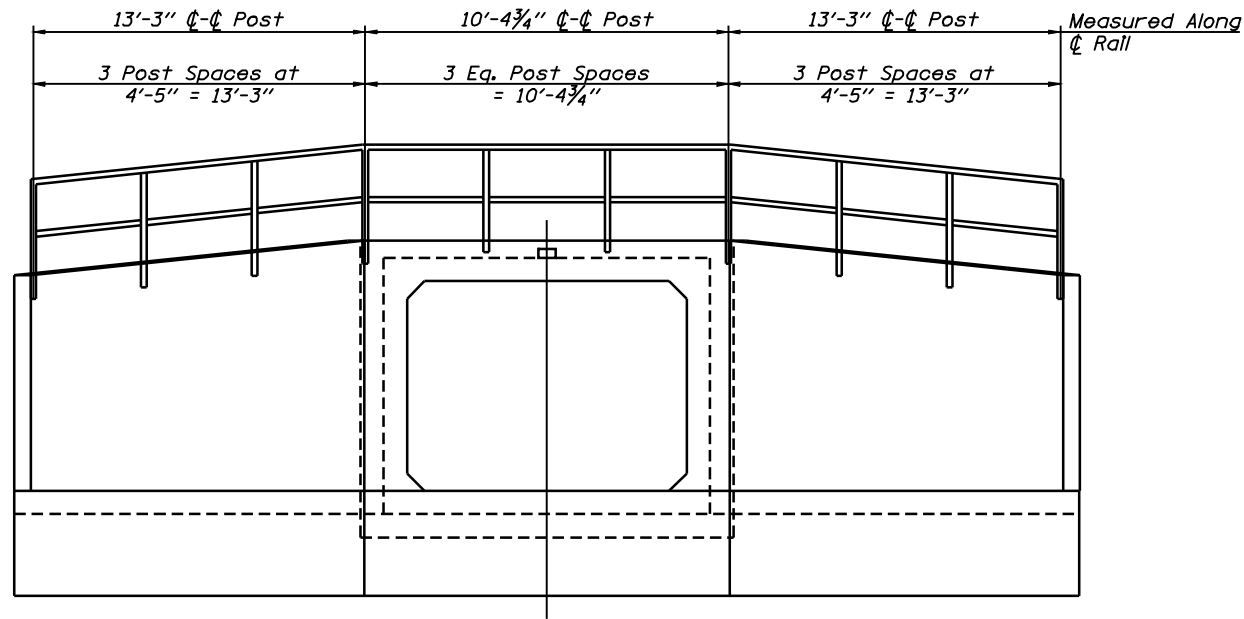
**CULVERT DETAILS  
ASH GROVE ROAD OVER  
WATERWAY NO. 1  
STA. 17+43.86  
SANGAMON COUNTY**



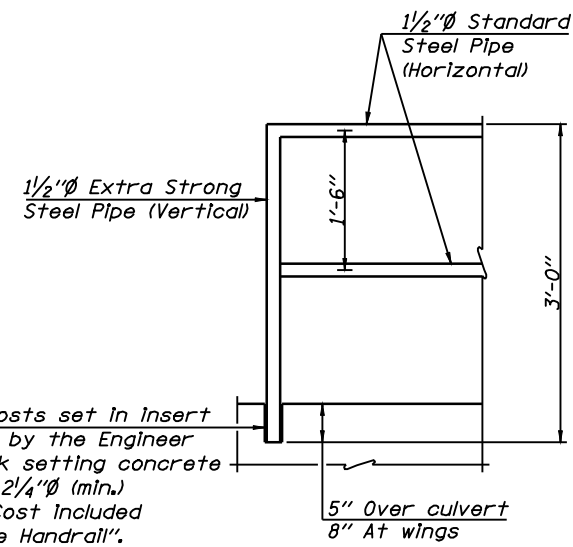
**Allen Henderson & Associates, Inc.**  
Civil and Structural Engineers Springfield, IL  
62708 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

SHEET NO. 2  
3 SHEETS

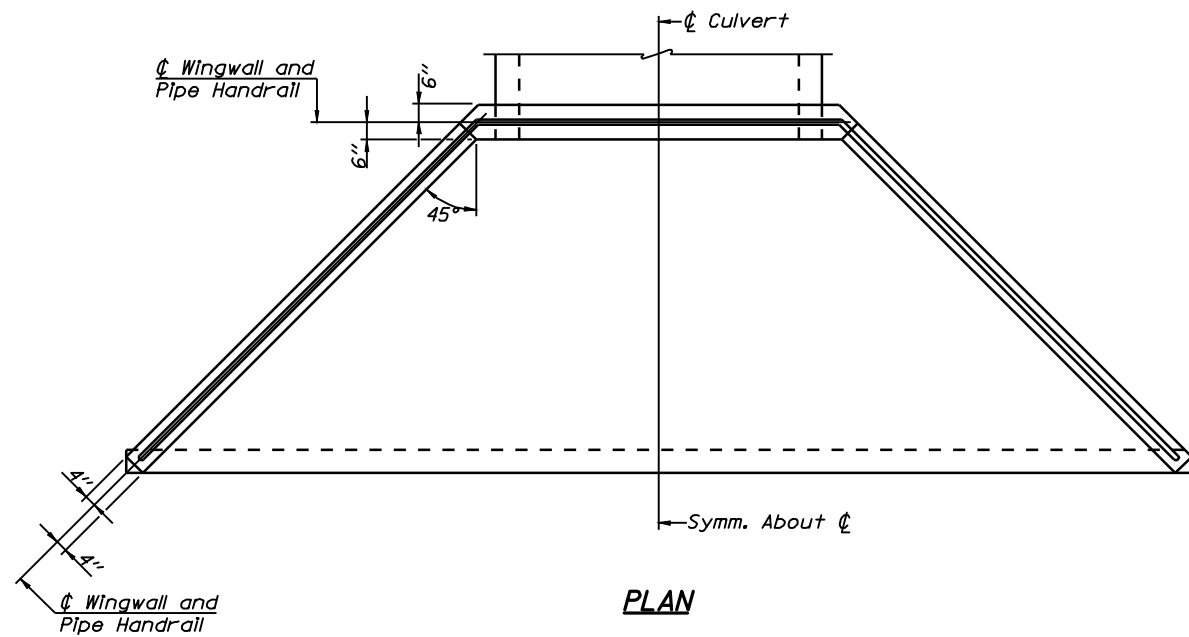
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	63
CONTRACT NO. 72A02				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**END ELEVATION**



**RAILING DETAIL**



**PLAN**

**NOTES**

Handrail shall conform to the requirements of Section 509 of the Standard Specifications.  
 The Pipe Handrail shall be painted in accordance with Section 506 of the Standard Specifications. The finish coat shall match Munsell Glossy Color 5B 7/1 Gray.  
 All steel pipe to be ASTM A53.  
 The unit cost per lined foot for Pipe Handrail shall include furnishing and installing the posts, sleeves, fittings, grout, pipe, primer and paint.

**BILL OF MATERIAL**

Item	Unit	Quantity
Pipe Handrail	Foot	74

**PIPE HANDRAIL DETAILS  
 ASH GROVE ROAD OVER  
 WATERWAY NO. 1  
 STA. 17+43.86  
 SANGAMON COUNTY**



**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
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 No. 184-001907

SHEET NO. 3  
 3 SHEETS

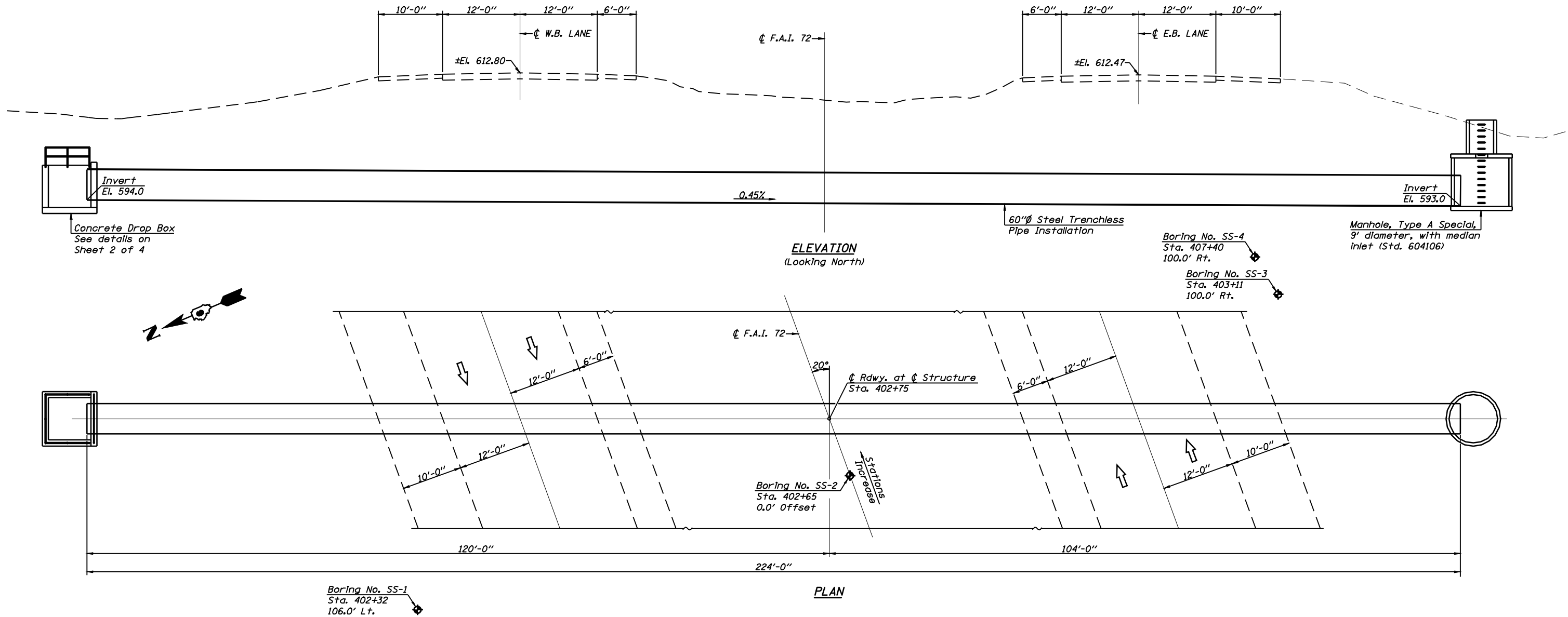
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	64
CONTRACT NO. 72A02				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



Benchmark #99: Chiseled "□" in top of light pole base at S.E. corner of 2nd pole on north edge of Exit #91 at Sta. 389+17.4, 106' Lt. (I-72), El. 611.083

Benchmark #98: Chiseled "□" in center of 4'x8' concrete box on north side of I-72 east of Exit #91 to Wabash Avenue at Sta. 405+36.4, 89.4' Lt. (I-72) El. 611.013

Benchmark #TA-10: Chiseled "□" in S.E. corner light pole foundation, west side of Wabash Ave. and across road from Cingular building, north of north I-72 ramps. El. 615.206

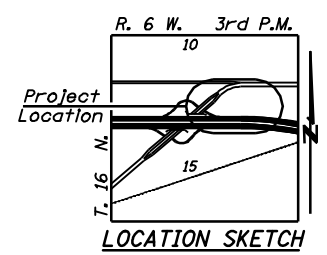


**GENERAL NOTES**  
 Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-32 or M-322, Grade 60.  
 Concrete required for the construction of the drop box is included in the quantity for concrete structures.


**DESIGN STRESSES**  
**FIELD UNITS**  
 $f'_c = 3,500$  p.s.i.  
 $f_y = 60,000$  p.s.i. (Reinforcement)  
**PRECAST UNITS**  
 $f'_c = 5,000$  p.s.i.  
 $f_y = 65,000$  p.s.i. (Welded wire fabric)

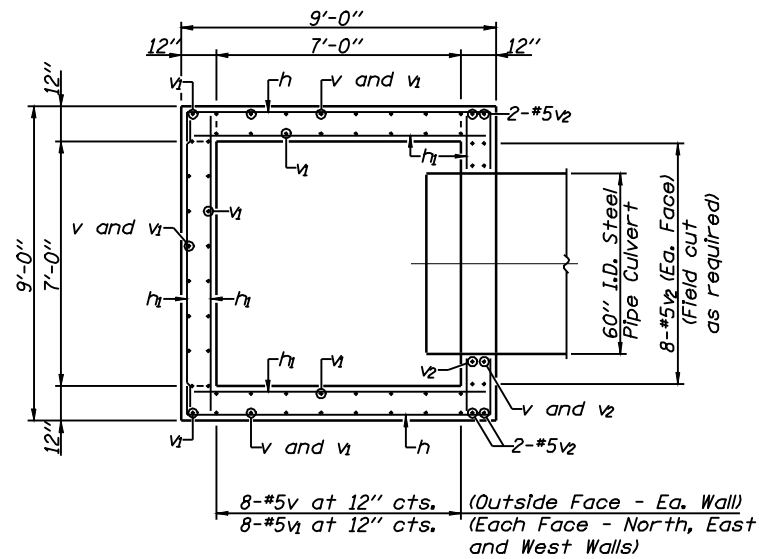
**TOTAL BILL OF MATERIAL**

Item	Unit	Quantity
60"Ø Steel Trenchless Pipe	Foot	224
Concrete Structures	Cu. Yd.	10.7
Reinforcement Bars	Pound	1550
Pipe Handrail	Foot	30

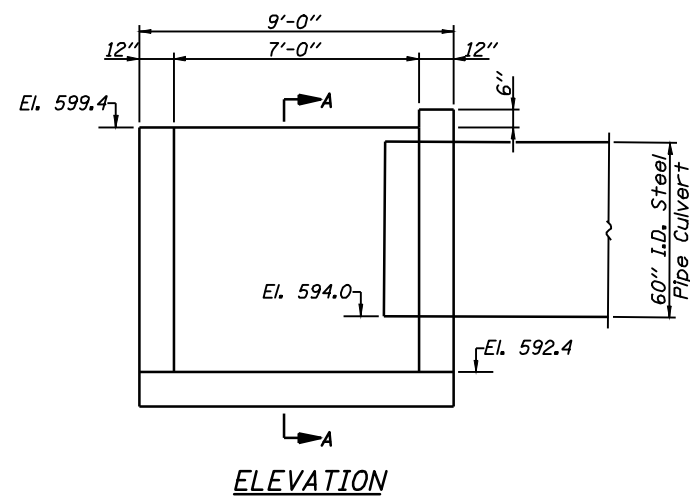


**GENERAL PLAN & ELEVATION  
 INTERSTATE 72 OVER  
 WATERWAY NO. 1  
 STA. 402+75.00  
 SANGAMON COUNTY**

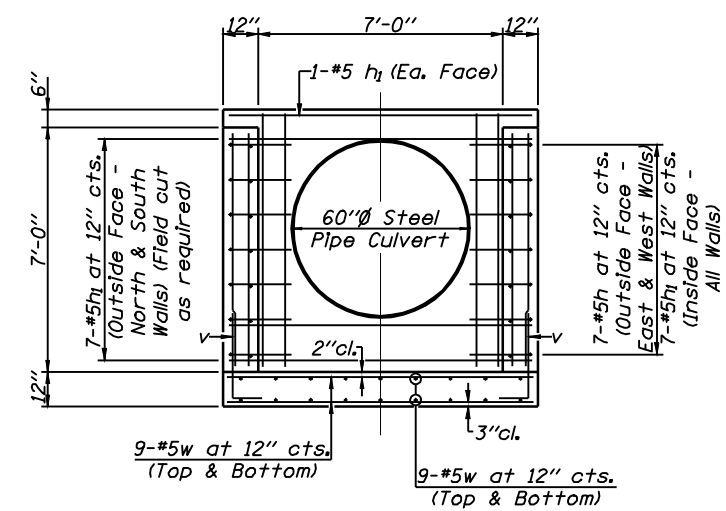
 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62708 Phone: (217)544-8088 IL Design Firm No. 184-001907	SHEET NO. 1 OF 4 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		8012	21(I-3)	SANGAMON	147	65
CONTRACT NO. 72A02						
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT				



PLAN



ELEVATION



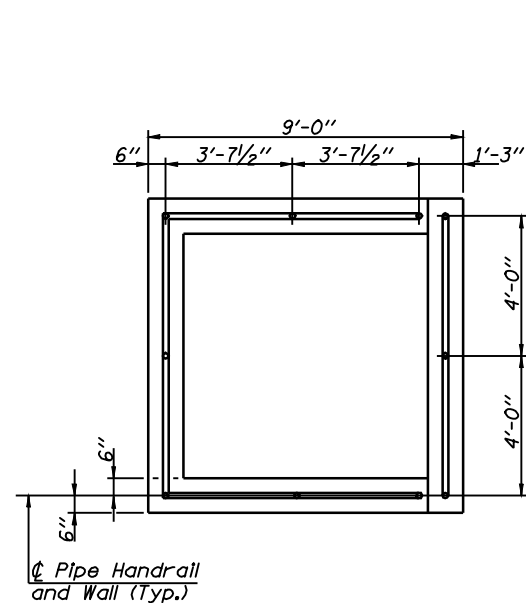
SECTION A-A

**TOTAL BILL OF MATERIAL  
DROP INLET**

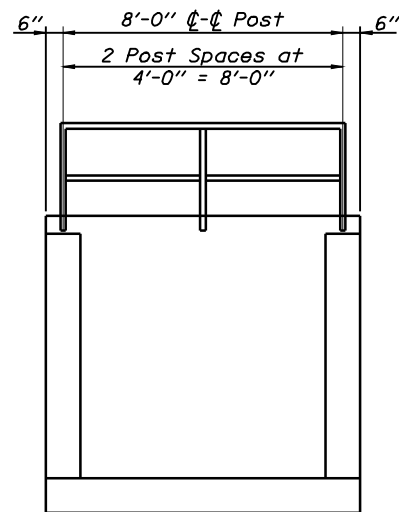
Bar	No.	Size	Length	Shape
h	14	#5	12'-8"	□
h1	44	#5	8'-8"	—
v	32	#5	4'-0"	L
v1	50	#5	6'-9"	—
v2	20	#5	7'-3"	—
w	36	#5	8'-8"	—
Concrete Structures			Cu. Yd.	10.7
Reinforcement Bars			Pound	1550
Pipe Handrail			Foot	30

**NOTES**

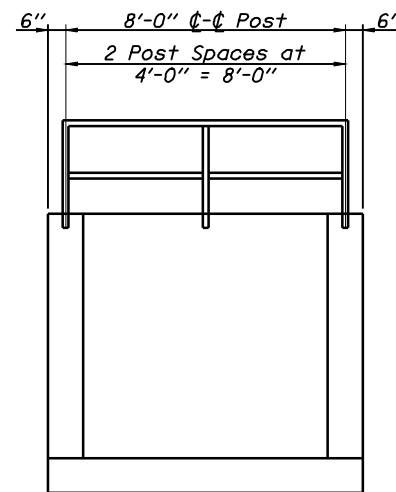
Handrail shall conform to the requirements of Section 509 of the Standard Specifications.  
 The Pipe Handrail shall be painted in accordance with Section 506 of the Standard Specifications. The finish coat shall match Munsell Glossy Color 5B 7/1 Gray.  
 All steel pipe to be ASTM A53.  
 The unit cost per lineal foot for Pipe Handrail shall include furnishing and installing the posts, sleeves, fittings, grout, pipe, primer and paint.



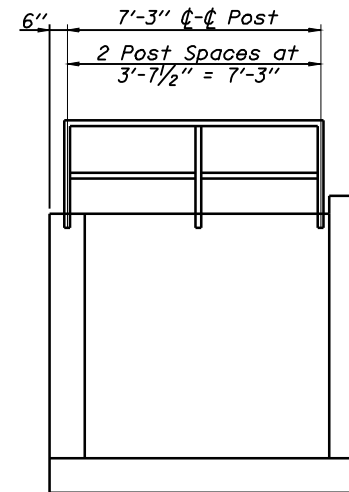
RAIL PLAN



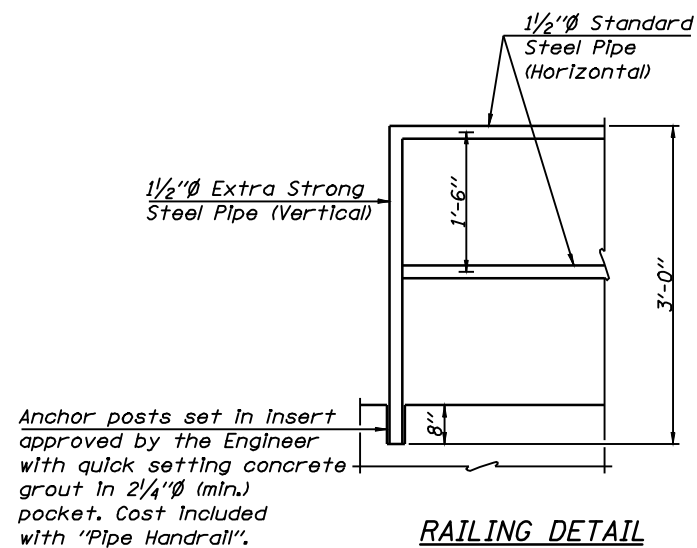
ELEVATION  
(South Rail)



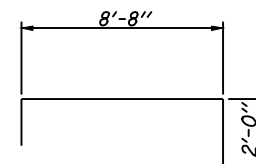
ELEVATION  
(North Rail)



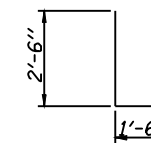
ELEVATION  
(East & West Rail)



RAILING DETAIL



BAR h



BAR v

**DROP INLET DETAILS  
INTERSTATE 72 OVER  
WATERWAY NO. 1  
STA. 402+75.00  
SANGAMON COUNTY**



**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62708 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

SHEET NO. 2  
 OF 4 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	66
CONTRACT NO. 72A02				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



SOIL BORING LOG

Page 1 of 1

Date 12/28/06

ROUTE FAI 72 DESCRIPTION Storm Sewer LOGGED BY M. Tappan

SECTION (84-9)T LOCATION NW 14, SEC. 14, TWP. 15 N, RNG. 6 W, 3 PM

COUNTY Sangamon DRILLING METHOD HSA HAMMER TYPE 140# Auto

Table with columns for STRUCT. NO., Station, BORING NO., Station, Offset, Ground Surface Elev., and soil descriptions with blow count data.

Vertical text on the left margin: File Name: S:\PROJECTS\8012\DRAINAGE IMPROVEMENTS\DRY DAY TEMPLATE\INSTRUMENT\DOT JOB PRINTED 280906

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 12/28/06

ROUTE FAI 72 DESCRIPTION Storm Sewer LOGGED BY M. Tappan

SECTION (84-9)T LOCATION NW 14, SEC. 14, TWP. 15 N, RNG. 6 W, 3 PM

COUNTY Sangamon DRILLING METHOD HSA HAMMER TYPE 140# Auto

Table with columns for STRUCT. NO., Station, BORING NO., Station, Offset, Ground Surface Elev., and soil descriptions with blow count data.

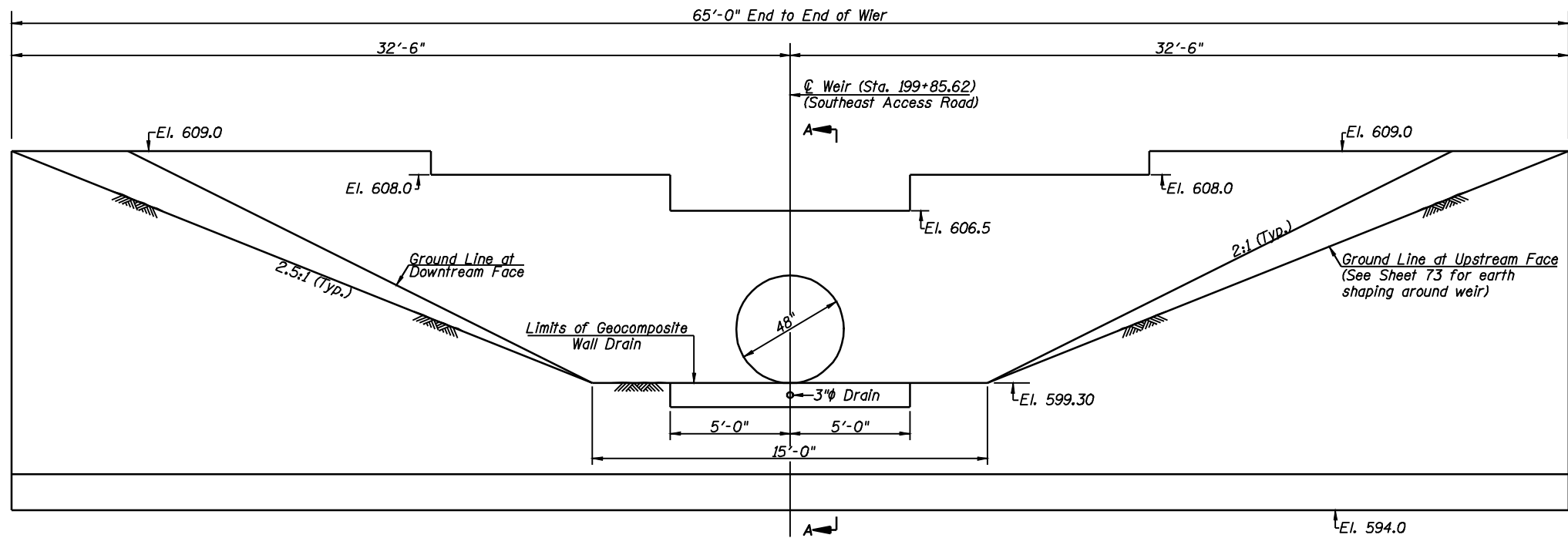
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The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

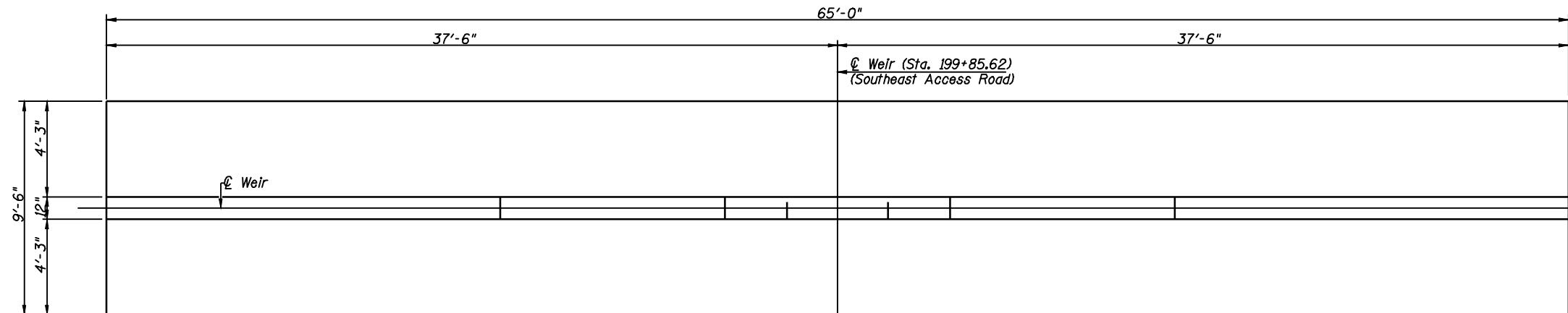
BORINGS INTERSTATE 72 OVER WATERWAY NO. 1 STA. 402+75.00 SANGAMON COUNTY

Project information box containing Allen Henderson & Associates, Inc. logo and contact info, SHEET NO. 3 OF 4 SHEETS, SECTION 21(I-3), COUNTY SANGAMON, TOTAL SHEETS 147, SHEET NO. 67, CONTRACT NO. 72A02, and FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

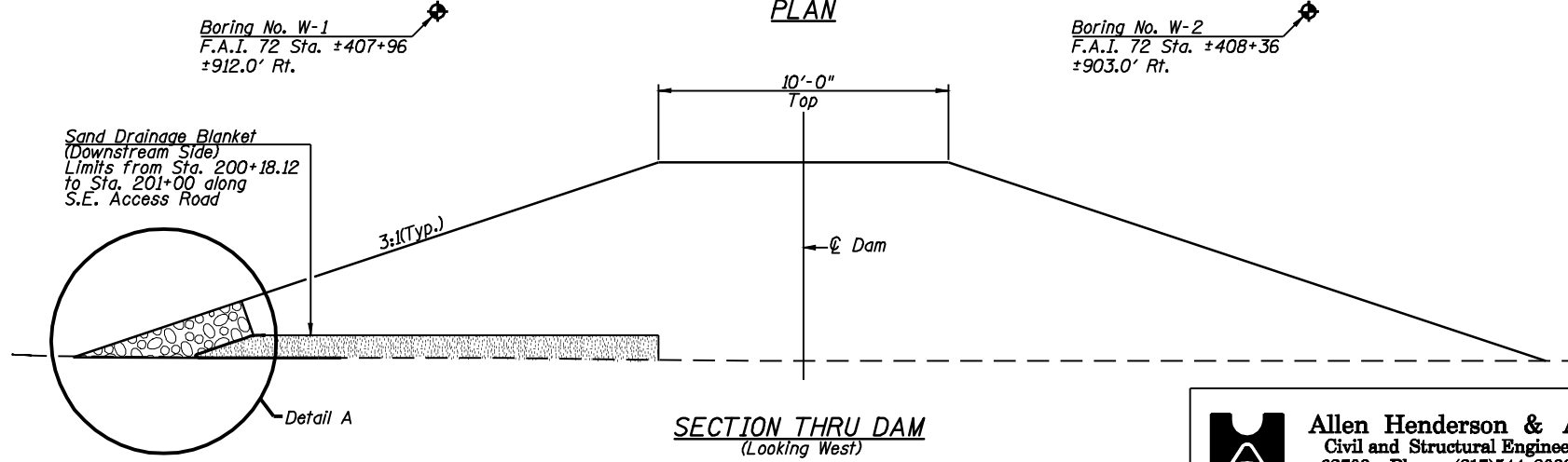




**ELEVATION**  
(Showing Upstream Face of Weir)



**PLAN**



**SECTION THRU DAM**  
(Looking West)

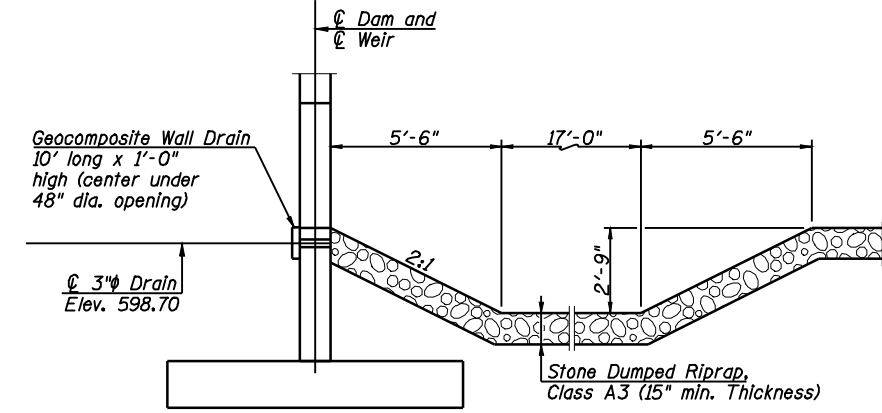
Benchmark #99: Chiseled "□" in top of light pole base at S.E. Corner of 2nd pole on north edge of Exit #91 at Sta. 389+17.4, 106' Lt. (I-72), El. 611.083  
 Benchmark #98: Chiseled "□" in center of 4'x8' concrete box on north side of I-72 east of Exit #91 to Wabash Avenue at Sta. 405+36.4, 89.4' Lt. (I-72) El. 611.013  
 Benchmark #TA-10: Chiseled "□" in S.E. corner light pole foundation, west side of Wabash Ave. and across road from Cingular building, north of north I-72 ramps. El. 615.206

**TOTAL BILL OF MATERIAL**

Item	Unit	Quantity
Concrete Structures	Cu. Yd.	65.1
Structure Excavation	Cu. Yd.	310
Reinforcement Bars	Pound	7925
Reinforcement Bars, Epoxy Coated	Pound	3195
Geocomposite Wall Drain	Sq. Yd.	1.1
Stone Dumped Riprap, Class A3	Ton	441
Filter Fabric	Sq. Yd.	91
Sand Drainage Blanket	Cu. Yd.	64

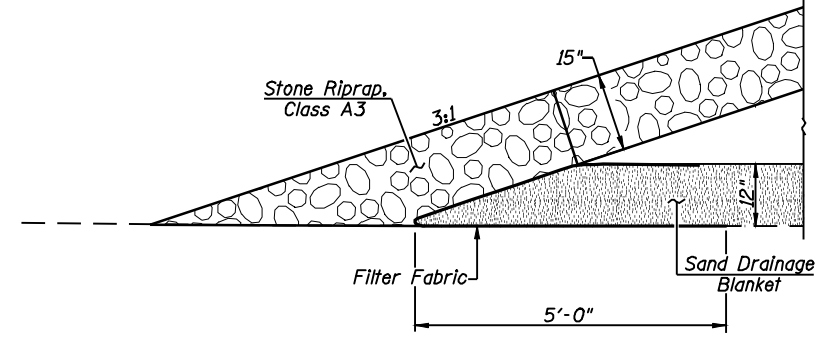
**GENERAL NOTES**

Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60. Reinforcement bars designated (E) shall be epoxy coated.  
 The layout of the riprap may be varied to suit ground conditions in the field as determined by the Engineer.  
 The backfill on both sides of the wall shall be placed simultaneously. In no case shall backfill on one side of the wall be more than 2'-0" higher than the backfill on the opposite side of the wall.



**SECTION A-A**

Note:  
See Sheet 24 of 147 for riprap layout on downstream side of dam.

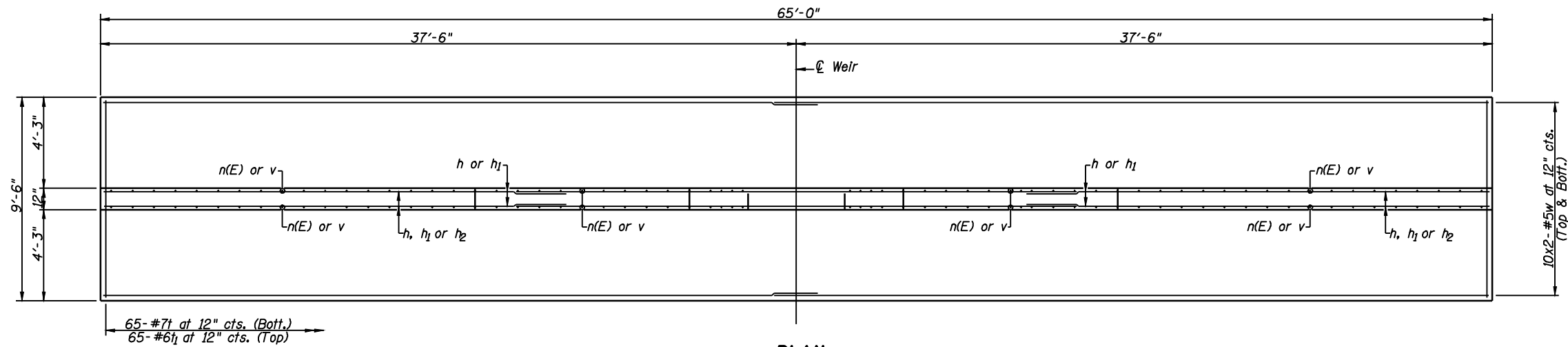


**DETAIL A**

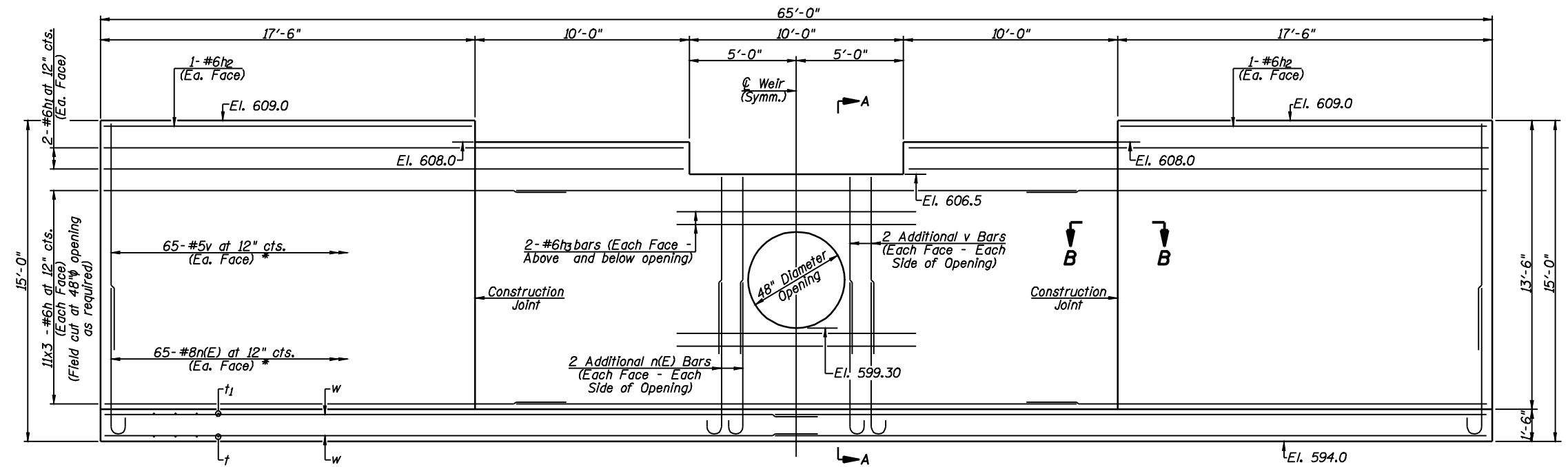
**GENERAL PLAN & ELEVATION  
WEIR AT DETENTION AREA  
STA. 108+99.44 (S. ACCESS RD. BASE LINE)  
SANGAMON COUNTY**

**Allen Henderson & Associates, Inc.**  
Civil and Structural Engineers Springfield, IL  
62708 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

SHEET NO. 1  3 SHEETS	F.A.U. RTE. 8012	SECTION 21(I-3)	COUNTY SANGAMON	TOTAL SHEETS 147	SHEET NO. 69
	CONTRACT NO. 72A02				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			



**PLAN**



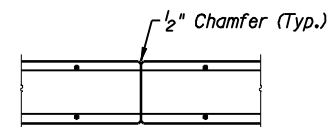
**ELEVATION**

\* Field cut v and n(E) bars below and above 48" diameter opening as required

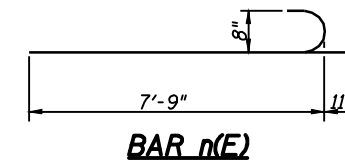
Maximum Soil Pressure Under Footing = 1,640 psf

**MIN. BAR LAPS**

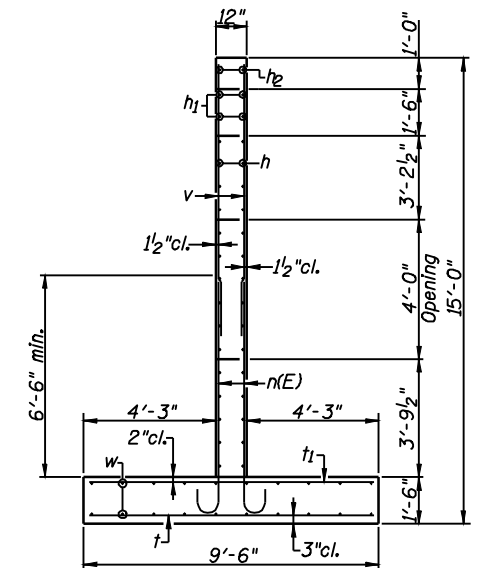
#5 bars = 2'-2"  
#6 bars = 3'-7"



**SECTION B-B**



**BAR n(E)**



**SECTION A-A**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
h	66	#6	24'-0"	—	
h <sub>1</sub>	8	#6	27'-2"	—	
h <sub>2</sub>	4	#6	17'-2"	—	
h <sub>3</sub>	8	#6	10'-0"	—	
n(E)	138	#8	8'-8"	⌋	
t	65	#7	9'-2"	—	
t <sub>1</sub>	65	#6	9'-2"	—	
v	138	#5	10'-4"	—	
w	40	#5	33'-5"	—	
Reinforcement Bars, Epoxy Coated				Pound	3195
Reinforcement Bars				Pound	7925
Concrete Structures				Cu. Yd.	65.1
Structure Excavation				Cu. Yd.	310

**WEIR DETAILS**  
WEIR AT DETENTION AREA  
STA. 108+99.44 (S. ACCESS RD. BASE LINE)  
SANGAMON COUNTY



**Allen Henderson & Associates, Inc.**  
Civil and Structural Engineers Springfield, IL  
62708 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

SHEET NO. 2  
3 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	70
CONTRACT NO. 72A02				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



SOIL BORING LOG

Page 1 of 1  
Date 12/29/06

ROUTE FAI 72 DESCRIPTION Weir LOGGED BY M. Tappan

SECTION (84-9)T LOCATION NW 14, SEC. 14, TWP. 15 N, RNG. 6 W, 3 PM

COUNTY Sangamon DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. Station	D P T H	B L O W S	U C S Qu	M O I S T T	Surface Water Elev. Stream Bed Elev.	Groundwater Elev.: ▽ First Encounter ▽ Upon Completion ▽ After 19 Days Hrs.	(ft)	/6"	(tsf)	%	D P T H	B L O W S	U C S Qu	M O I S T T	Surface Water Elev. Stream Bed Elev.	Groundwater Elev.: ▽ First Encounter ▽ Upon Completion ▽ After 19 Days Hrs.	(ft)	/6"	(tsf)	%
Dark Grey Moist SILTY CLAY																				
Drilled through field tile Free Water		1	0.8	32																
Brown and Grey		1	0.5	28																
Brown and Grey Moist Weathered CLAY (TII)		2	0.7	28																
Grey and Brown Moist CLAY LOAM (TII)		1																		
4" Coarse Gravel Seam		1	1.2	16																
Grey Boring Completed Baseline STA 39+83 360'LT		5																		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

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Latitude Longitude Datum NAD83 Job Number



SOIL BORING LOG

Page 1 of 1  
Date 1/10/07

ROUTE FAI 72 DESCRIPTION Weir LOGGED BY M. Tappan

SECTION (84-9)T LOCATION NW 14, SEC. 14, TWP. 15 N, RNG. 6 W, 3 PM

COUNTY Sangamon DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. Station	D P T H	B L O W S	U C S Qu	M O I S T T	Surface Water Elev. Stream Bed Elev.	Groundwater Elev.: ▽ First Encounter ▽ Upon Completion ▽ After 7 Days Hrs.	(ft)	/6"	(tsf)	%	D P T H	B L O W S	U C S Qu	M O I S T T	Surface Water Elev. Stream Bed Elev.	Groundwater Elev.: ▽ First Encounter ▽ Upon Completion ▽ After 7 Days Hrs.	(ft)	/6"	(tsf)	%
Dark Grey Moist SILTY CLAY																				
Brown and Grey Moist Weathered CLAY (TII)		1	0.6	28																
Grey and Brown		1	0.6	28																
Olive Brown and Grey		2																		
Grey and Brown Moist CLAY LOAM (TII)		2																		
Grey with 8" Coarse Gravel Seam		6	4.2	12																
Brown and Grey Free Water		16	5.9	10																
Boring Completed Baseline STA 39+25 397'LT		21	5.2	9																

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

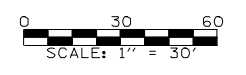
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Latitude Longitude Datum NAD83 Job Number

**BORINGS**  
**WEIR AT DETENTION AREA**  
**STA. 108+99.44 (S. ACCESS RD. BASE LINE)**  
**SANGAMON COUNTY**

<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	SHEET NO. 3  3 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		8012	21(I-3)	SANGAMON	147	71
		CONTRACT NO.				
		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



MATCHLINE - 2



MATCHLINE - 1

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PLOT DATE = May-18-2009 03:20:17PM		CHECKED -	REVISED -
		DATE -	REVISED -



**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

<b>GRADING PLAN (DETENTION AREA)</b>			
SCALE: 1" = 30'	SHEET NO. 72 OF 147 SHEETS	STA.	TO STA.

F.A.U. RTE. 8012	SECTION 21(I-3)	COUNTY SANGAMON	TOTAL SHEETS 147	SHEET NO. 72
CONTRACT NO. 72A02				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

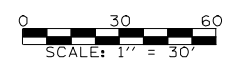





MATCHLINE - 2

MATCHLINE - 3

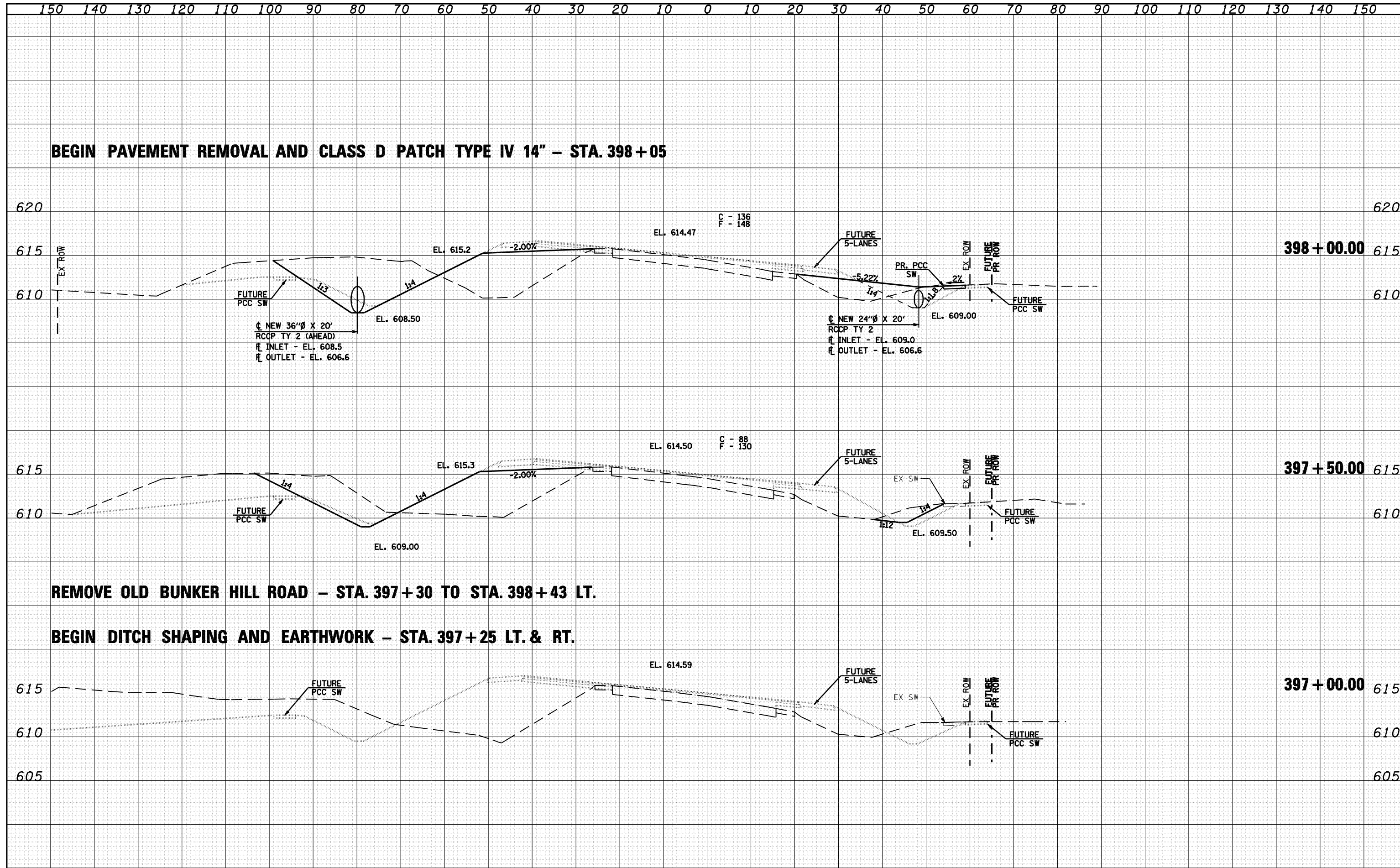
SHEAR LINE



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							ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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ORIGINAL SURVEY	
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NOTE BOOK	
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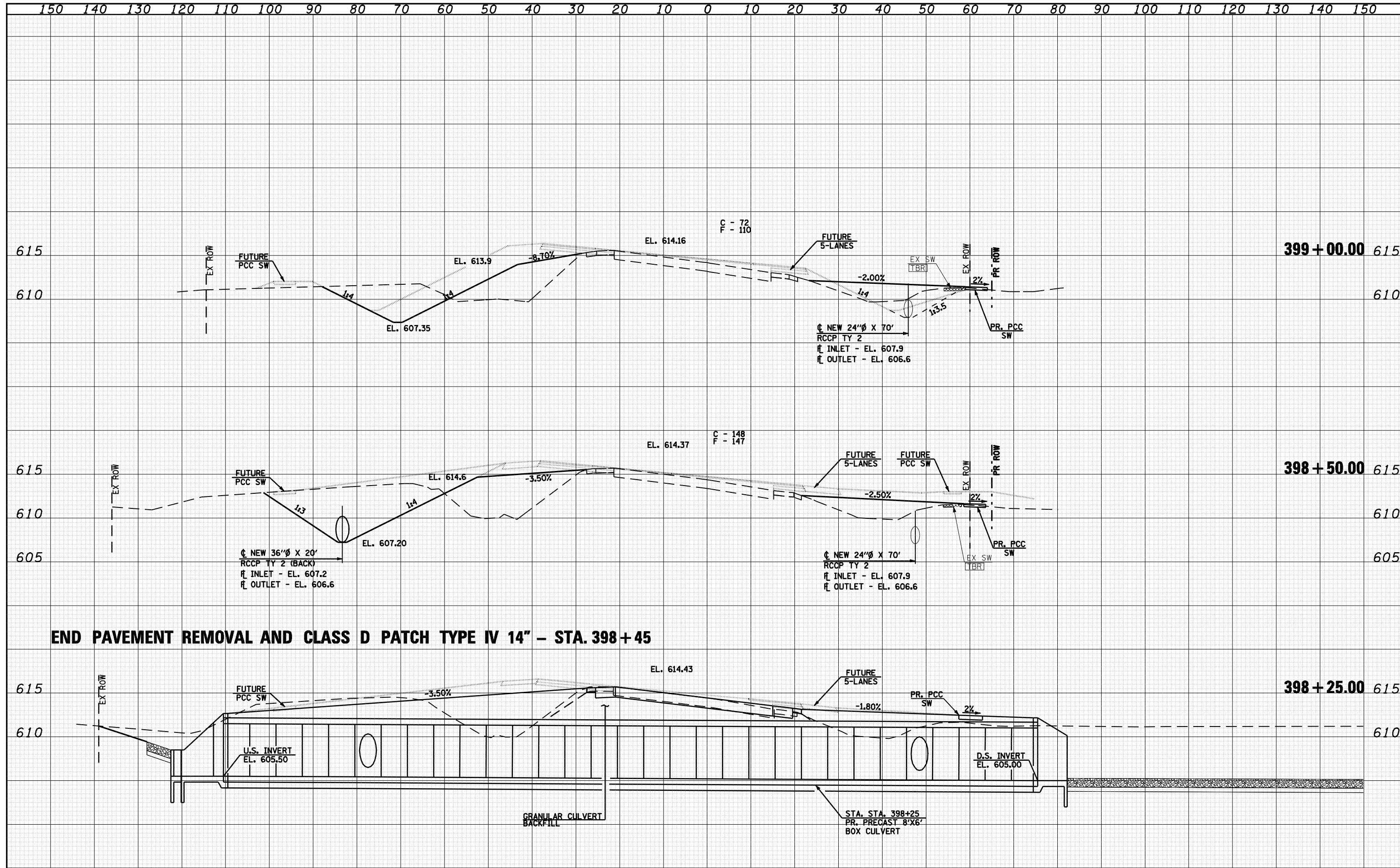
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

**CROSS SECTIONS**  
 SCALE: SHEET NO. 75 OF 147 SHEETS STA. 397+00.00 TO STA. 398+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	75
CONTRACT NO. T2A02				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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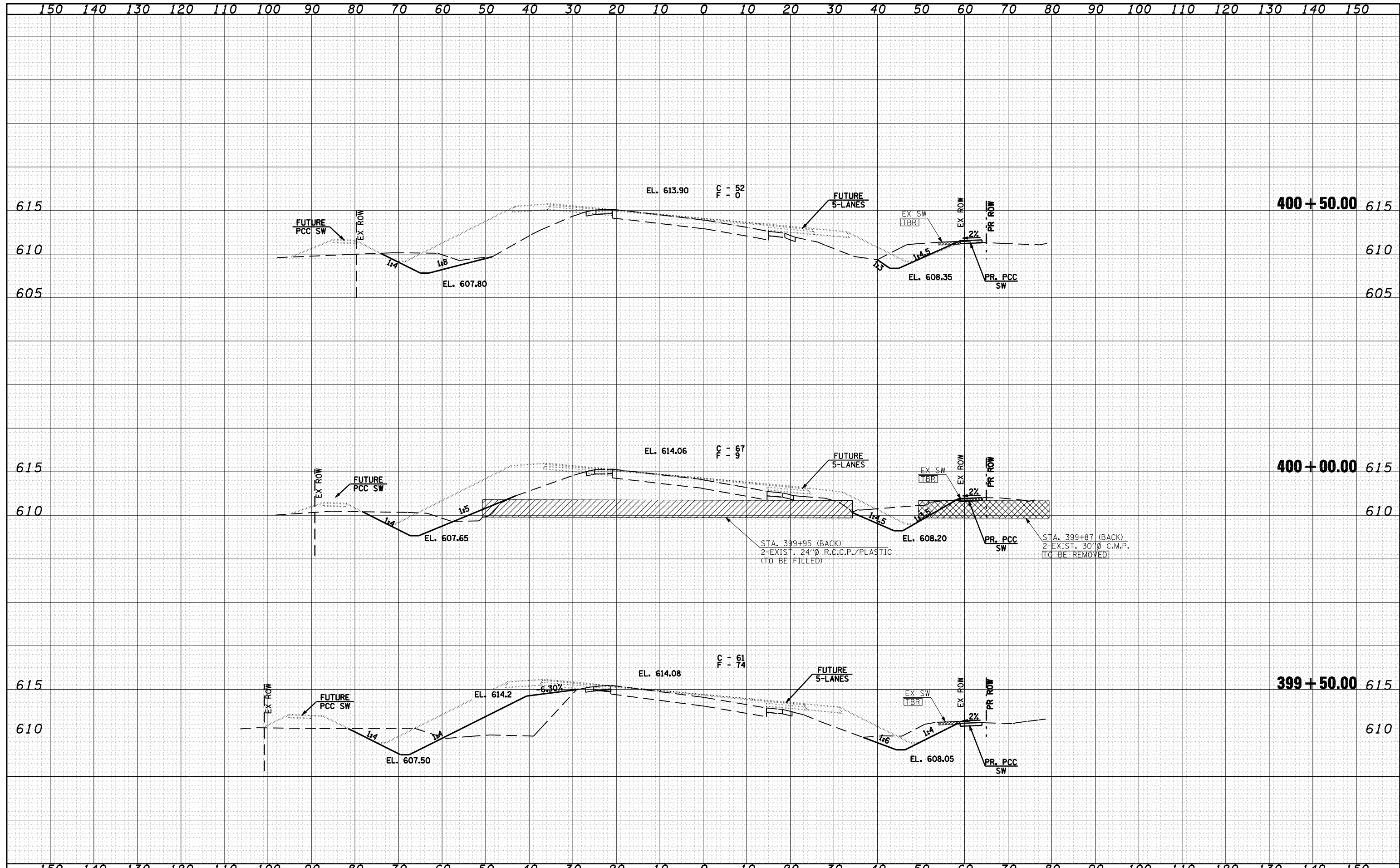
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ORIGINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	



**END PAVEMENT REMOVAL AND CLASS D PATCH TYPE IV 14" - STA. 398+45**

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
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TEMPLATE	
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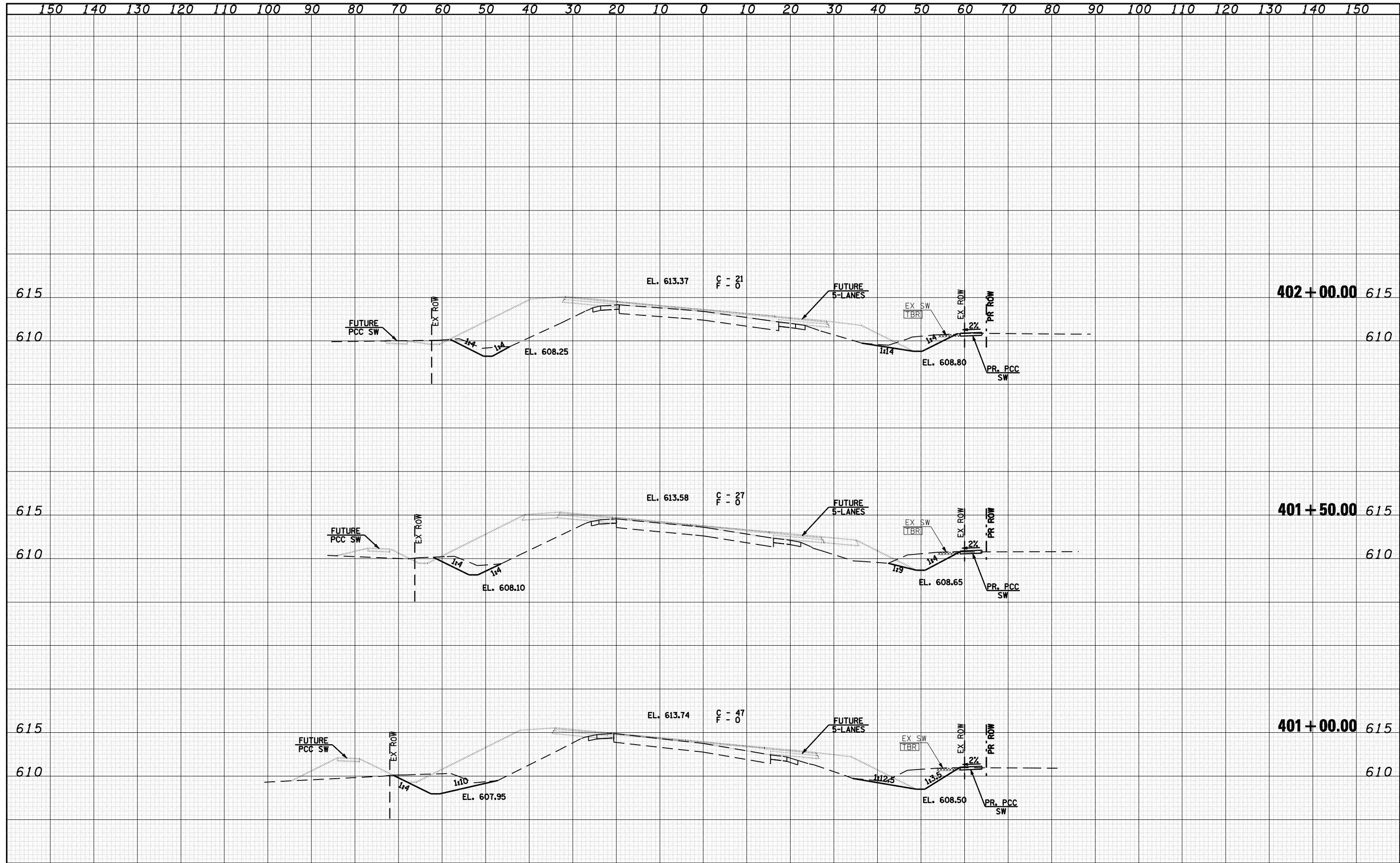
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

**CROSS SECTIONS**  
 SCALE: SHEET NO. 77 OF 147 SHEETS STA. 399+50.00 TO STA. 400+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	77
CONTRACT NO. 72A02				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
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NOTE BOOK	
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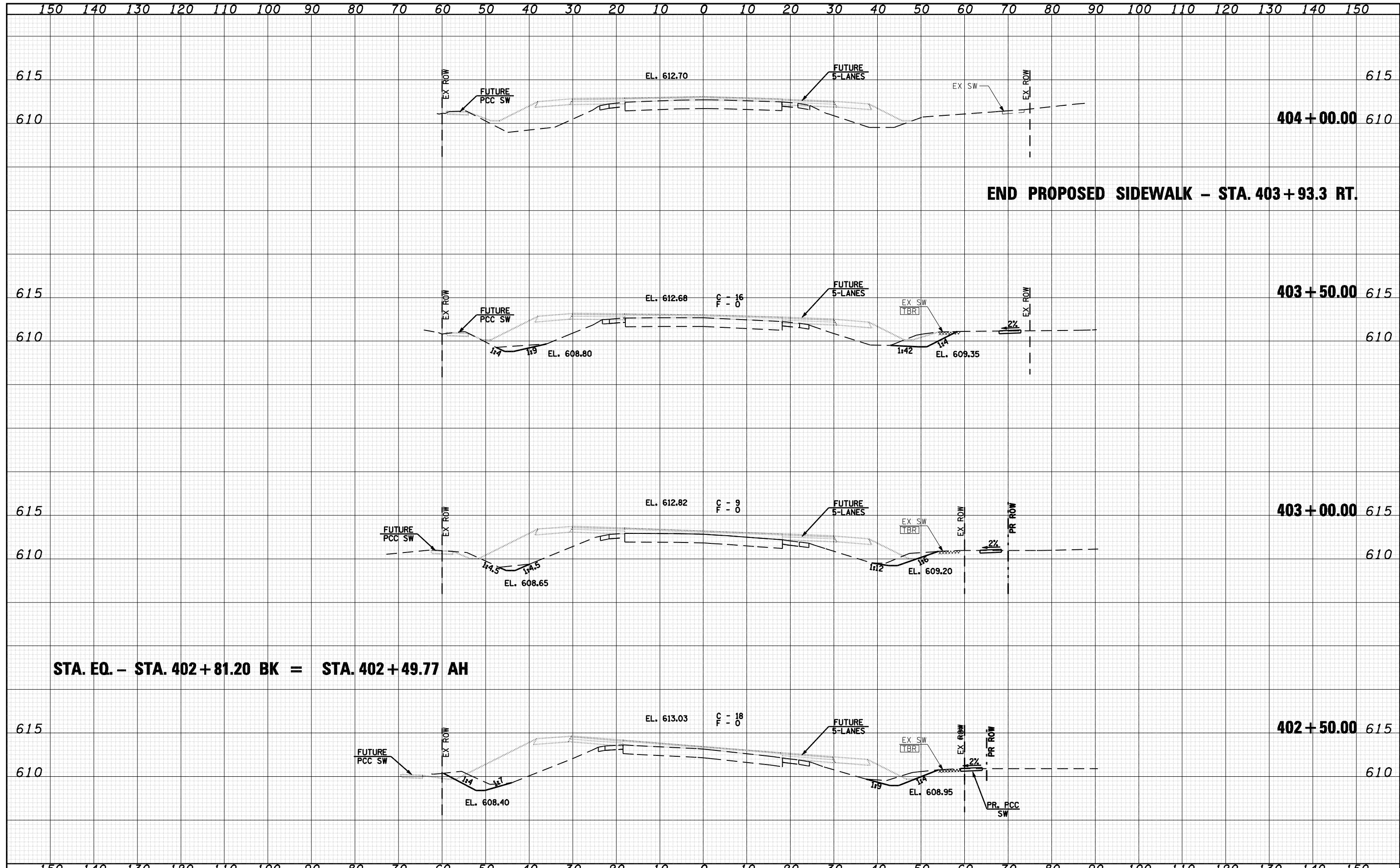
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907


**CROSS SECTIONS**  
 SCALE: SHEET NO. 78 OF 147 SHEETS STA. 401+00.00 TO STA. 402+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	78
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72A02	

DATE	
BY	
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PLOTTED	
TEMPLATE	
NOTE BOOK	
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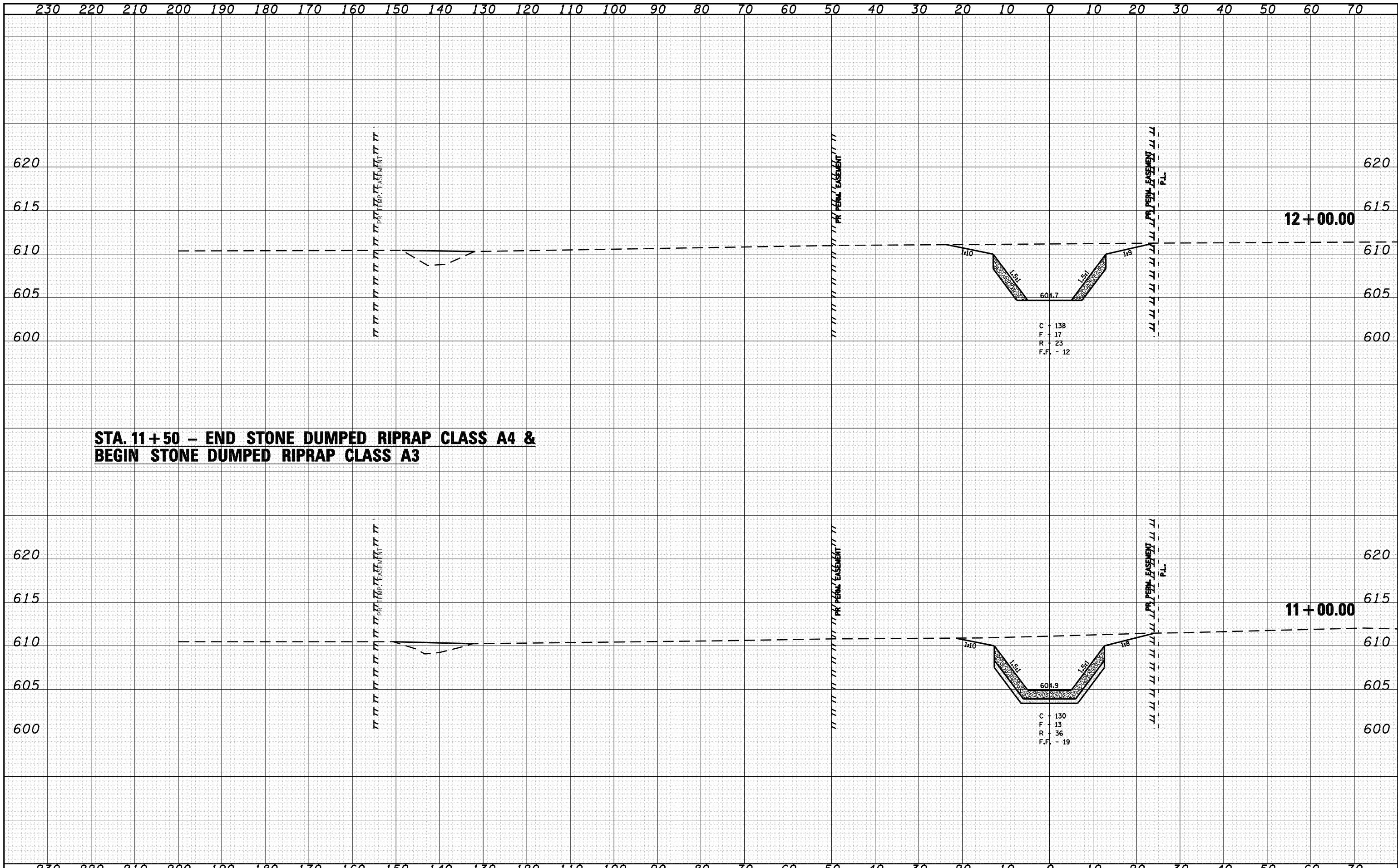


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		CHECKED -	REVISED -									
		DATE -	REVISED -									

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

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

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



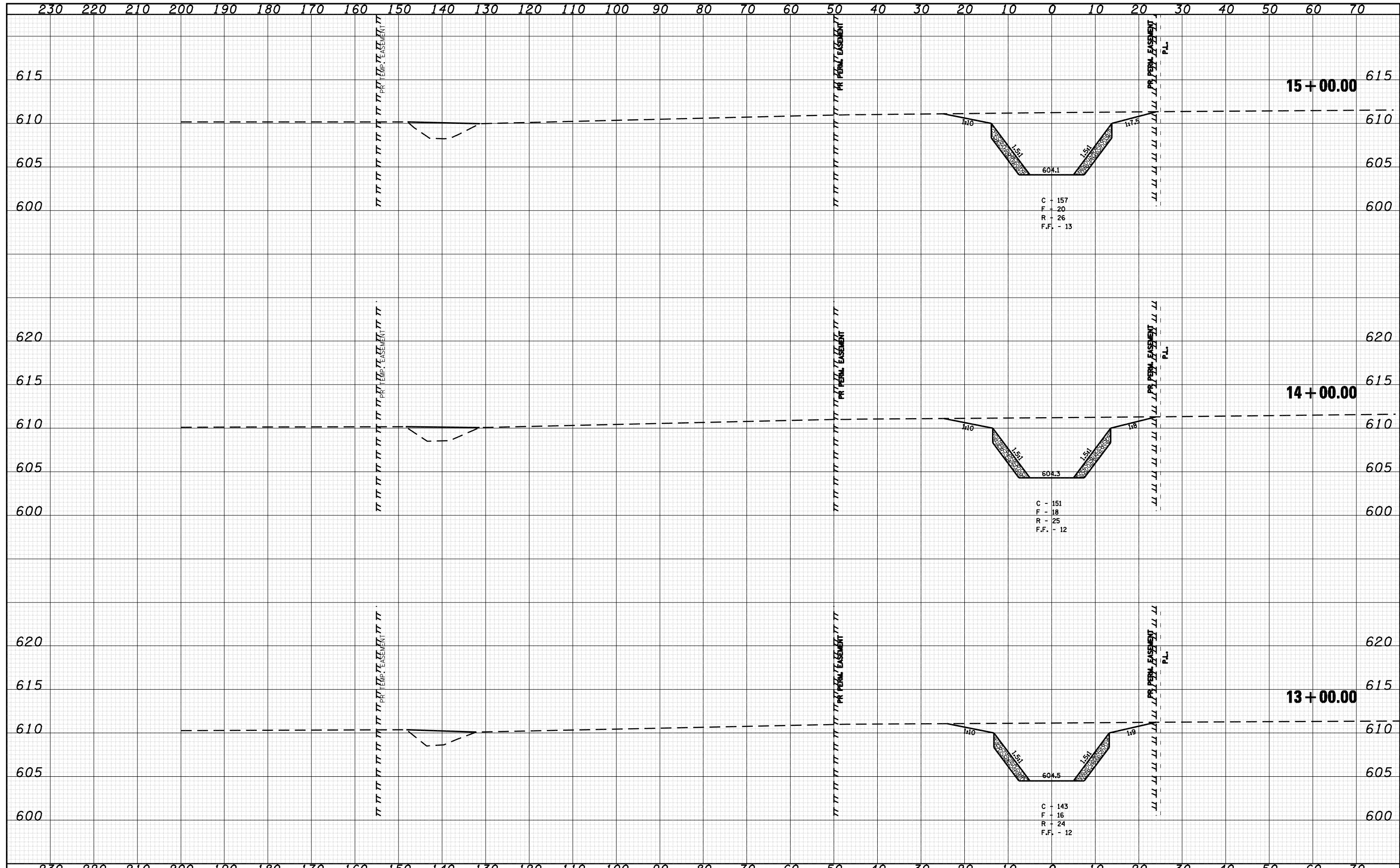
**STA. 11+50 – END STONE DUMPED RIPRAP CLASS A4 & BEGIN STONE DUMPED RIPRAP CLASS A3**

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>CROSS SECTIONS (WATERWAY NO. 1)</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\PWIDOT\LAUGHLINRL\d0143507\0672A02	sh-t-xasht-waterway1.dgn	DRAWN -	REVISED -		SCALE:	SHEET NO. 80 OF 147 SHEETS	STA. 11+00.00 TO STA. 12+00.00	8012	21(I-3)	SANGAMON	147	80
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -					CONTRACT NO. 72A02				
PLOT DATE = May-18-2009 03:21:12PM		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				



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

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



C - 157  
F - 20  
R - 26  
F.F. - 13

C - 151  
F - 18  
R - 25  
F.F. - 12

C - 143  
F - 16  
R - 24  
F.F. - 12

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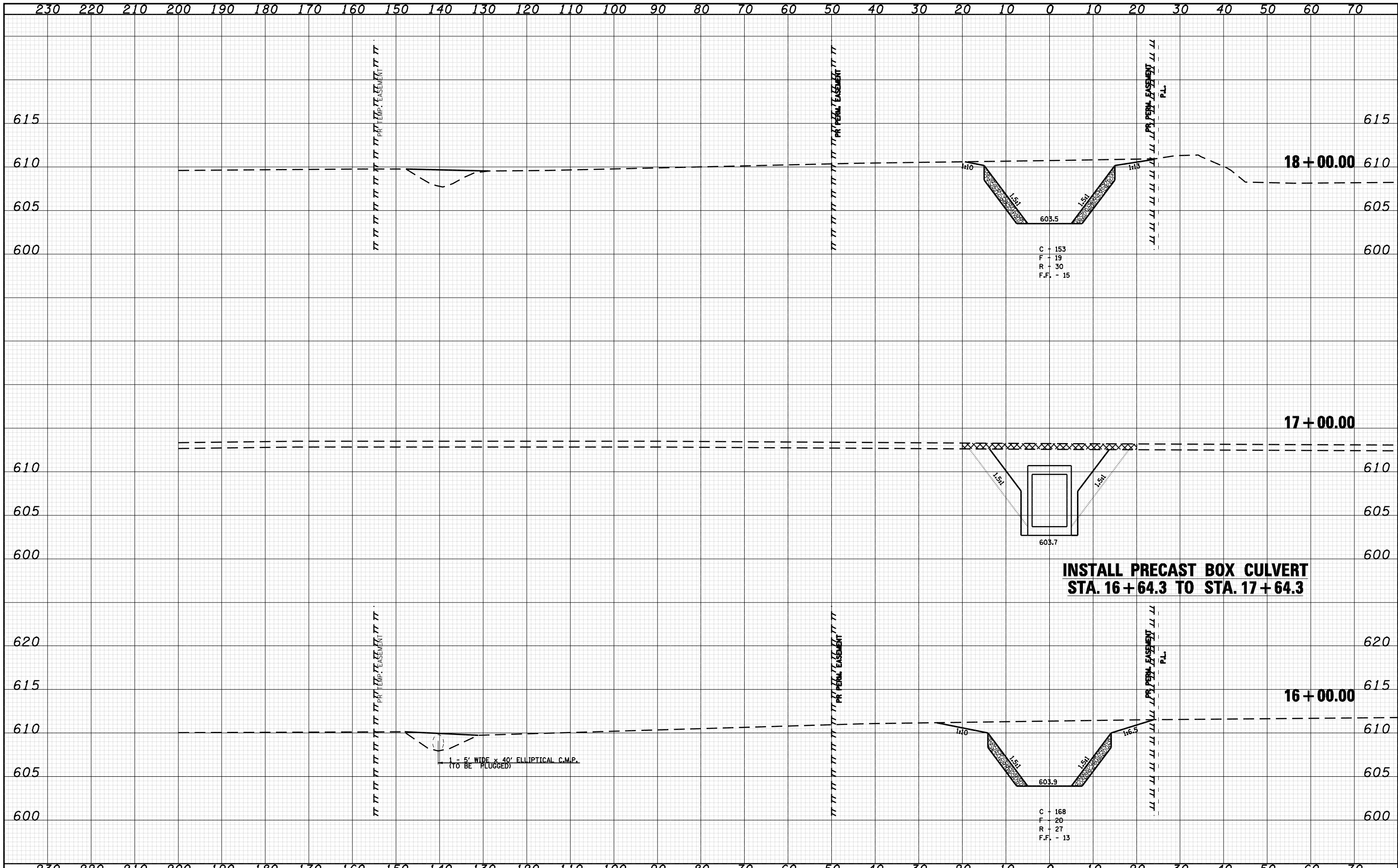
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

**CROSS SECTIONS (WATERWAY NO. 1)**  
 SCALE: SHEET NO. 81 OF 147 SHEETS STA. 13+00.00 TO STA. 15+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	81
CONTRACT NO. 72A02				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



C - 153  
F - 19  
R - 30  
F.F. - 15

**INSTALL PRECAST BOX CULVERT  
STA. 16+64.3 TO STA. 17+64.3**

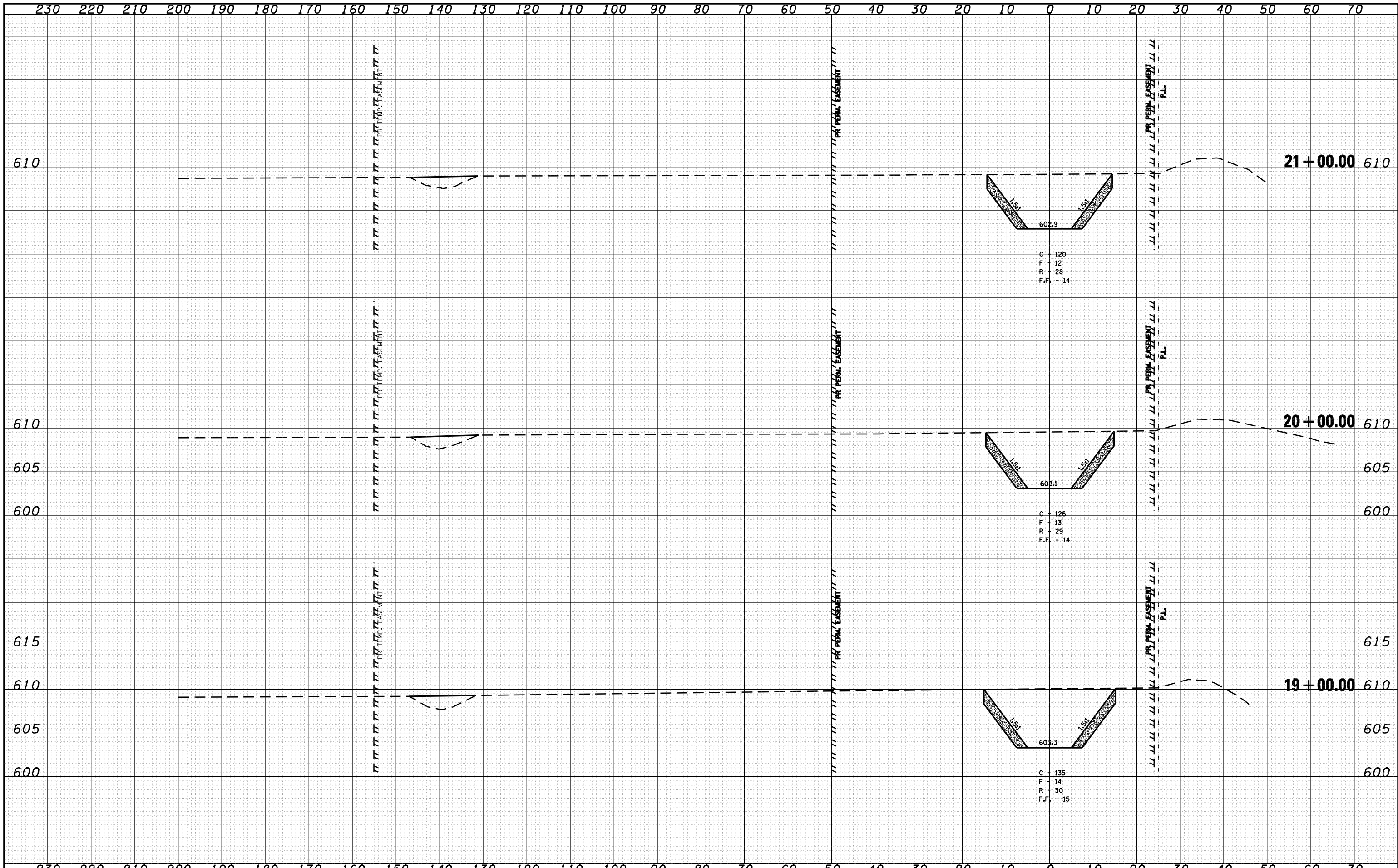
1 - 5' WIDE x 40' ELLIPTICAL C.M.P.  
(TO BE PLUGGED)


C - 168  
F - 20  
R - 27  
F.F. - 13

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<p><b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	<b>CROSS SECTIONS (WATERWAY NO. 1)</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwwid01\LAUGHLINRL\d0143507\0672402	sh-t-xasht-waterway1.dgn	DRAWN -	REVISED -		SCALE:	SHEET NO. 82 OF 147 SHEETS	STA. 16+00.00 TO STA. 18+00.00	8012	21(I-3)	SANGAMON	147	82
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -					CONTRACT NO. 72A02				
PLOT DATE = May-18-2009 03:21:17PM		DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
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PLOTTED	
TEMPLATE	
AREAS	
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FINAL SURVEY NOTE BOOK NO.	

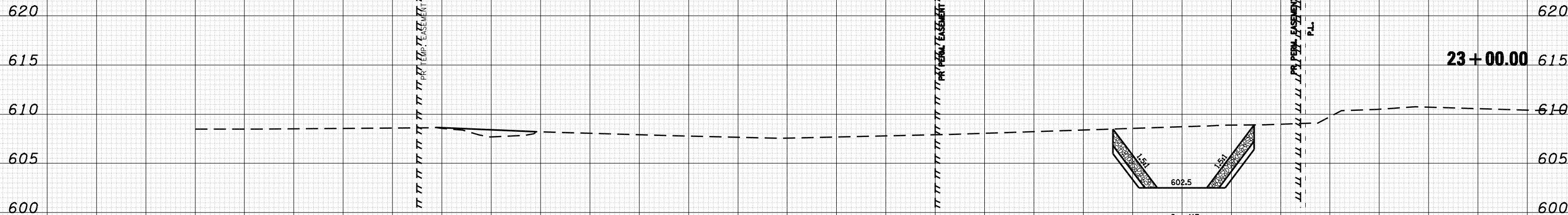
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	



FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>CROSS SECTIONS (WATERWAY NO. 1)</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\PWIDOT\LAUGHLINRL\d0143507\0672A02	ah-t-xasht-waterway1.dgn	DRAWN -	REVISED -				8012	21(I-3)	SANGAMON	147	83
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -		SCALE: SHEET NO. 83 OF 147 SHEETS STA. 19+00.00 TO STA. 21+00.00		CONTRACT NO. 72A02				
PLOT DATE = May-18-2009 03:21:19PM		DATE -	REVISED -				FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

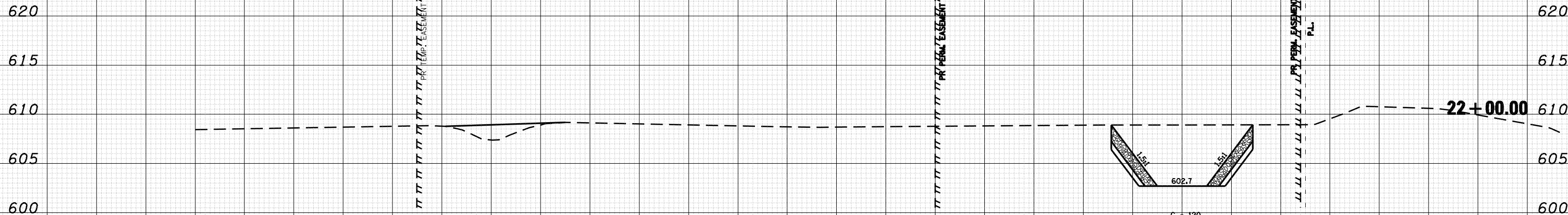
230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

**STA. 23 + 94.63 (WATERWAY NO. 1) = STA. 389 + 27.51 (I-72)**



C - 117  
F - 9  
R - 27  
F.F. - 14

**23 + 00.00**



C - 120  
F - 16  
R - 28  
F.F. - 14

**22 + 00.00**

**STA. 21 + 50 - END STONE DUMPED RIPRAP CLASS A3 & BEGIN STONE DUMPED RIPRAP CLASS A4**

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

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

230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

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 sh-t-xast-waterway1.dgn  
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 PLOT DATE = May-18-2009 03:21:22PM

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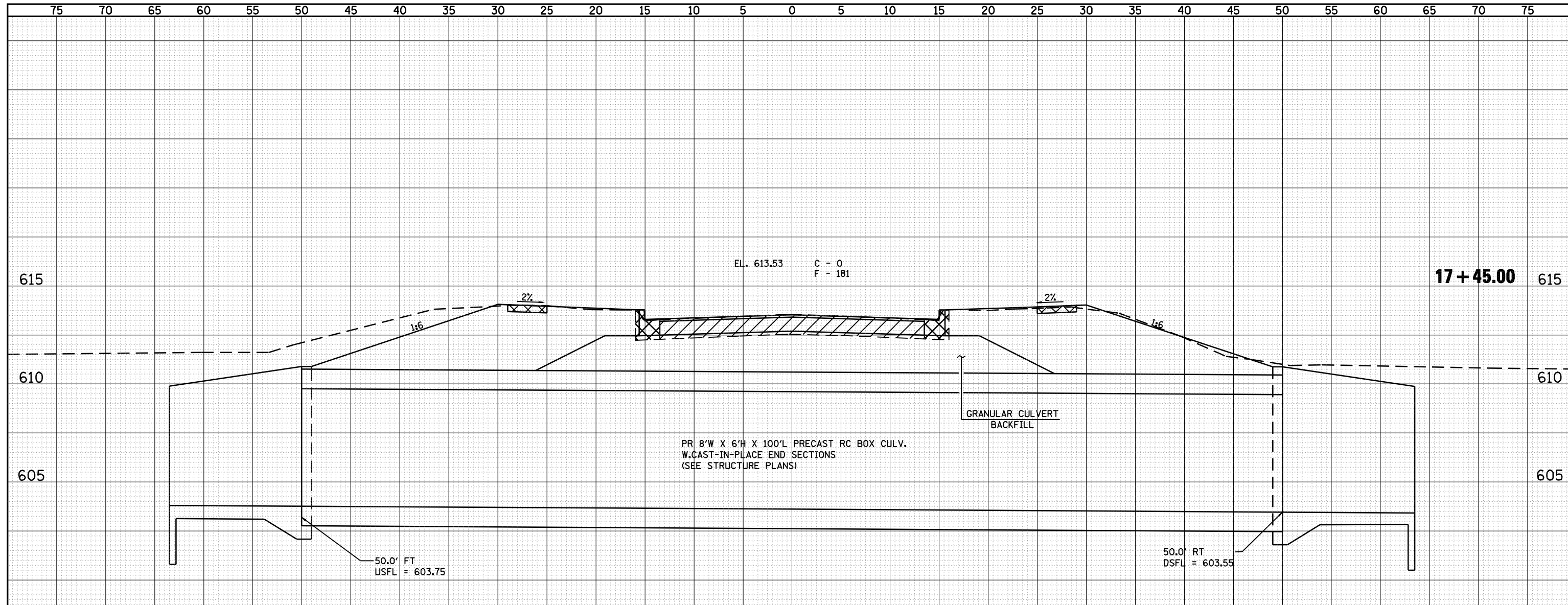


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 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

**CROSS SECTIONS (WATERWAY NO. 1)**  
 SCALE: SHEET NO. 84 OF 147 SHEETS STA. 22+00.00 TO STA. 23+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	84
CONTRACT NO. 72A02				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

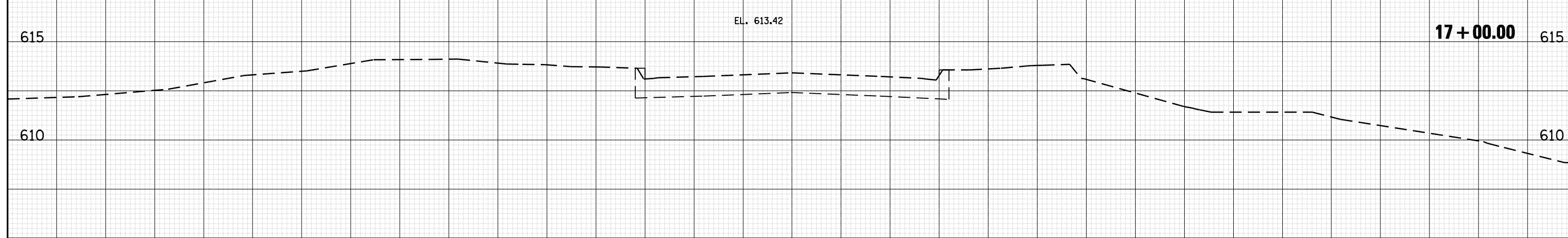
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY NOTE BOOK NO.	



**STA. 17+25 LT. & RT. - BEGIN SIDEWALK REMOVAL AND COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT**

**PROJECT BEGINS - STA. 17+25**

**BEGIN NEW PORTLAND CEMENT CONCRETE SIDEWALK 4" - STA. 17+25 LT. & RT.**



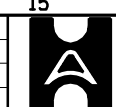
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	

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USER NAME = laughlinr1  
 aht-xasht-ash grove.dgn  
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 PLOT DATE = May-18-2009 03:21:24PM

DESIGNED -  
 DRAWN -  
 CHECKED -  
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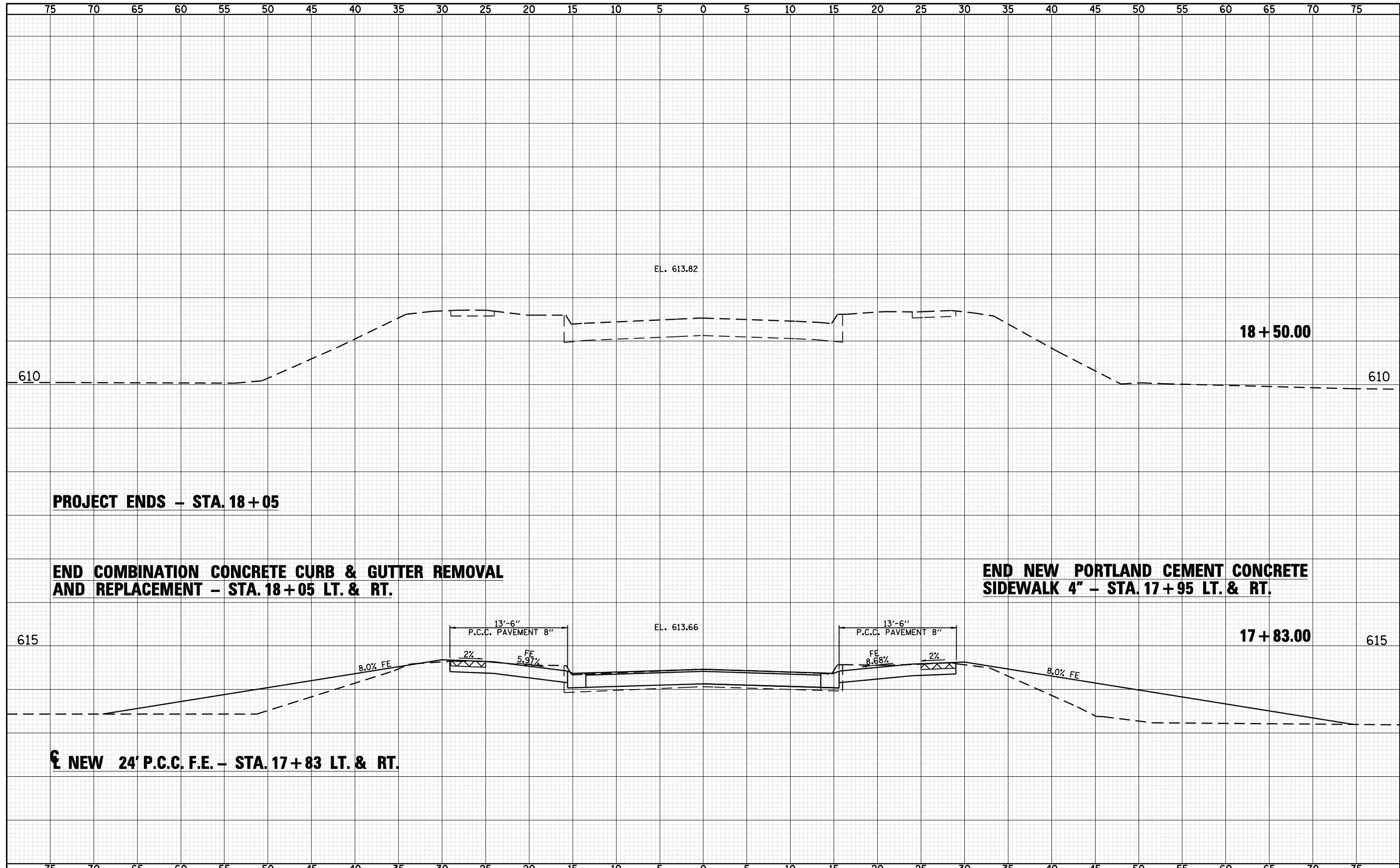
**Allen Henderson & Associates, Inc.**  
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 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907


**CROSS SECTIONS (ASH GROVE ROAD)**  
 SCALE: SHEET NO. OF SHEETS STA. 17+00 TO STA. 17+45

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	85
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72A02	

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

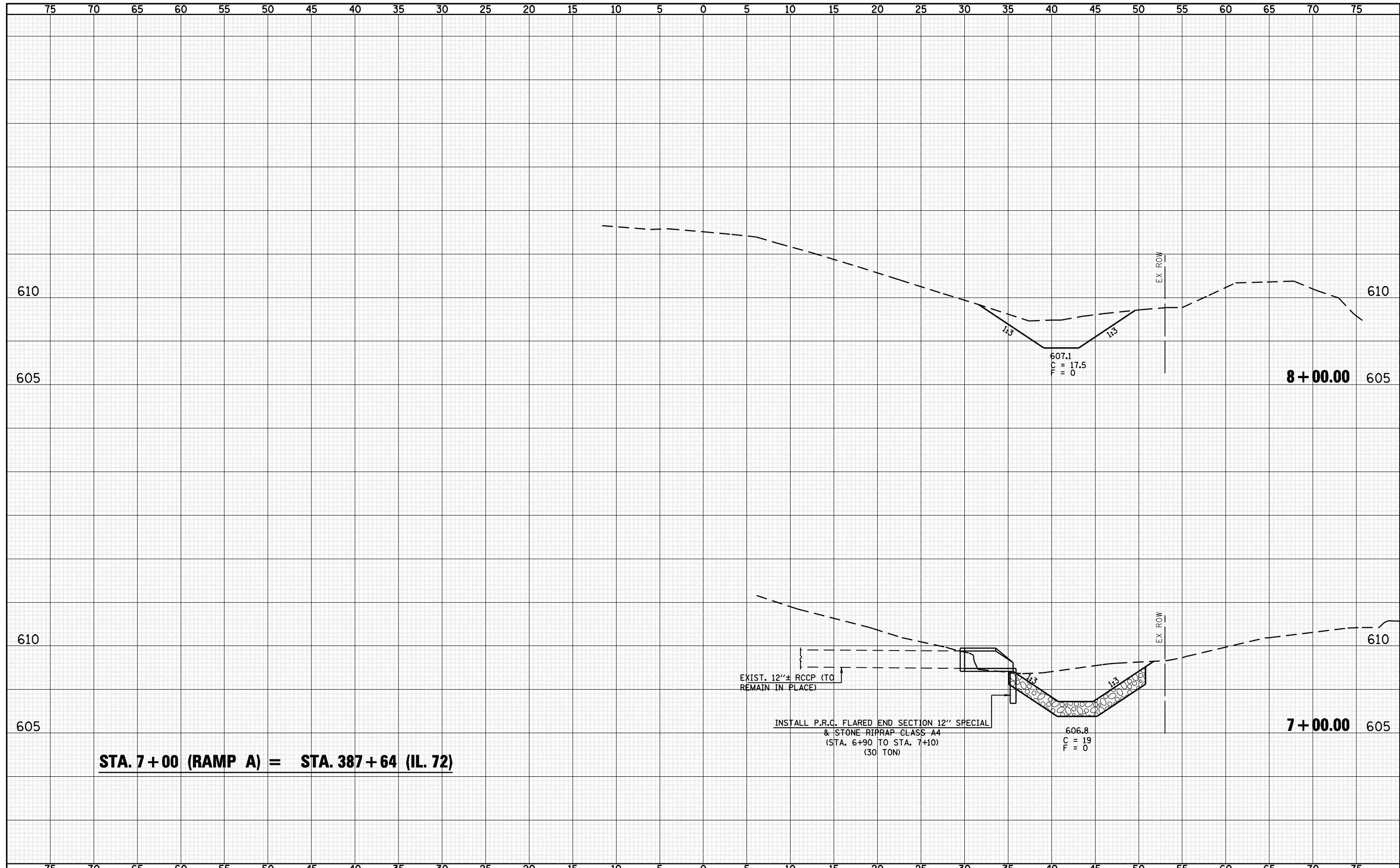
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ORIGINAL SURVEY	
NOTE BOOK	
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SURVEYED	
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FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>CROSS SECTIONS (ASH GROVE ROAD)</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwidot\LAUGHLINRL\d0143507\0672A02	ah-t-xasht-ash grove.dgn	DRAWN -	REVISED -		SCALE:	SHEET NO. 86 OF 147 SHEETS	STA. 17+83 TO STA. 18+50	8012	21(I-3)	SANGAMON	147	86
PLOT SCALE = 10.0000 ' / IN.		CHECKED -	REVISED -				CONTRACT NO. 72A02					
PLOT DATE = May-18-2009 03:21:26PM		DATE -	REVISED -				FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

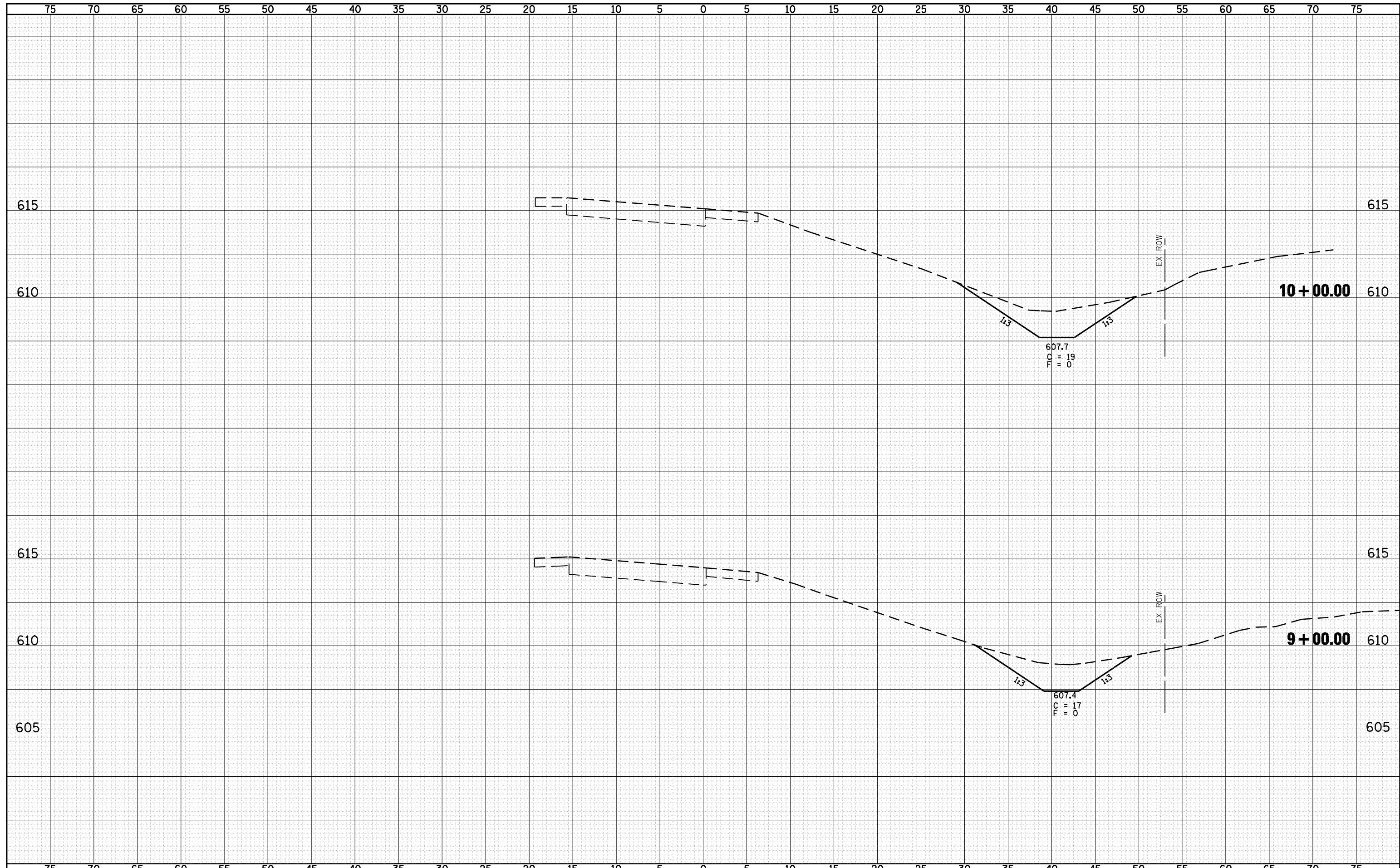
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



**STA. 7+00 (RAMP A) = STA. 387+64 (IL. 72)**

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

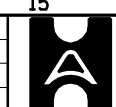


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 PLOT DATE = May-18-2009 03:21:30PM

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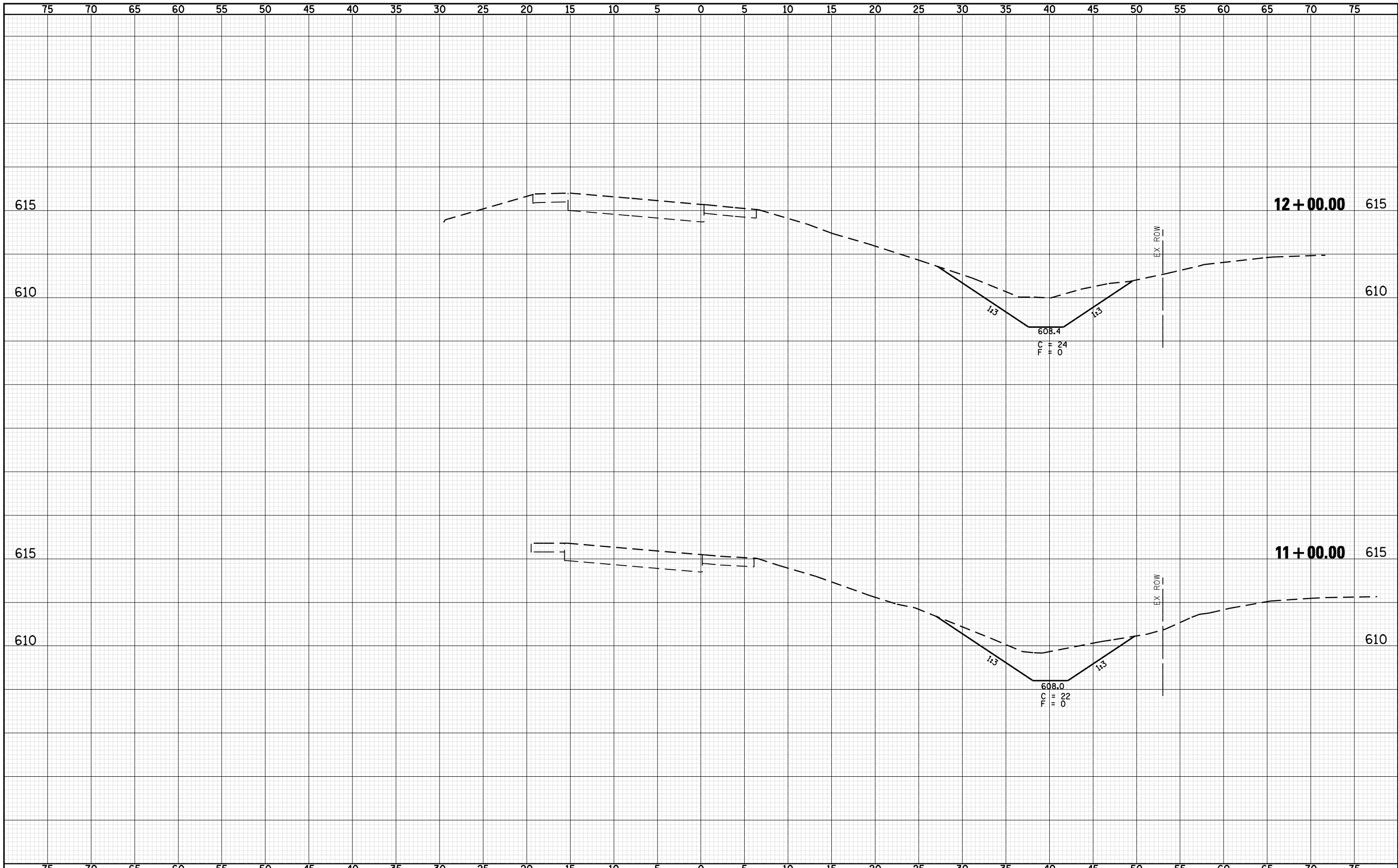
**CROSS SECTIONS (INTERCHANGE RAMP A)**  
 SCALE: SHEET NO. 88 OF 147 SHEETS STA. 9+00 TO STA. 10+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	88
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72A02	



DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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 PLOT DATE = May-18-2009 03:21:32PM

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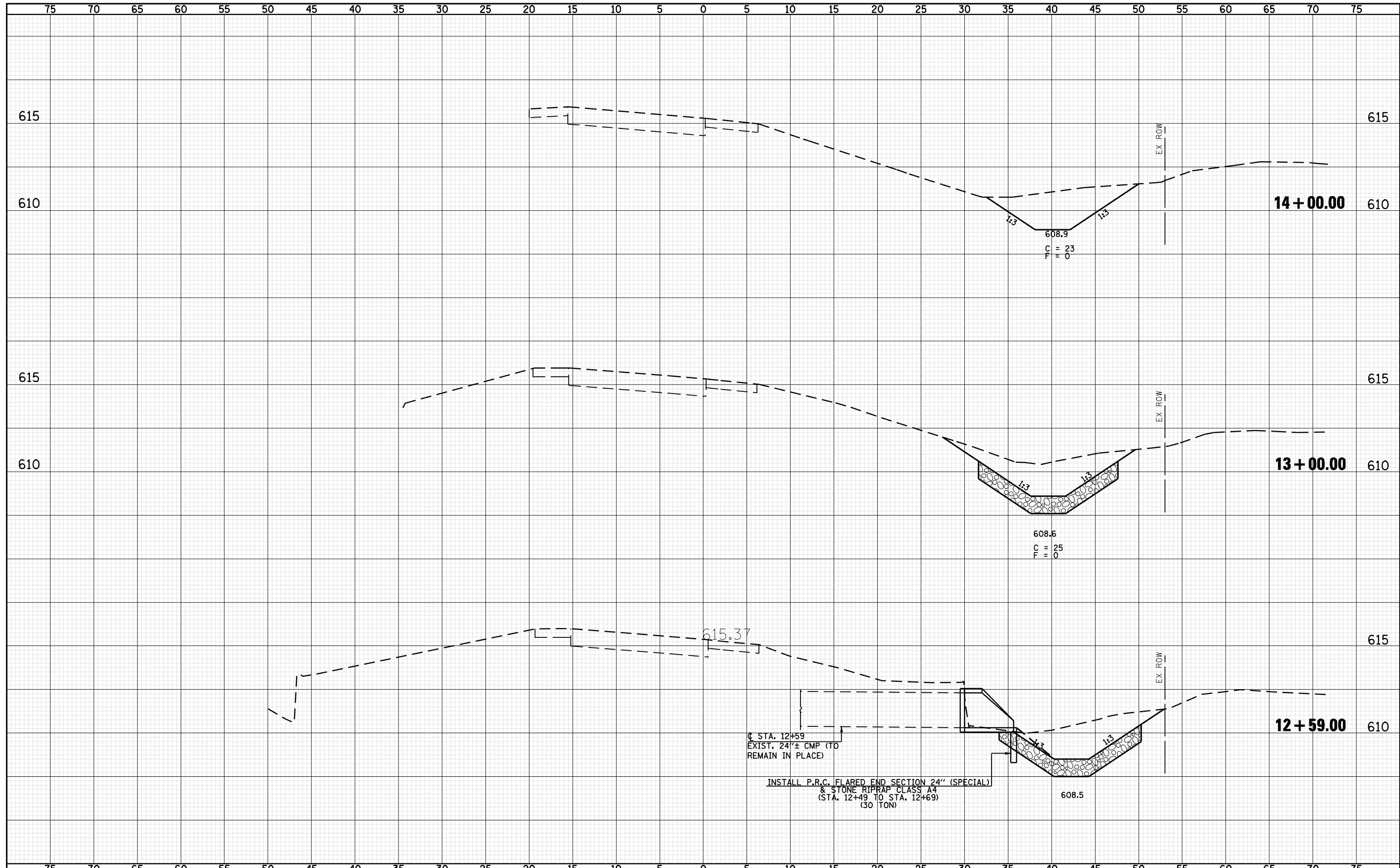
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907


**CROSS SECTIONS (INTERCHANGE RAMP A)**  
 SCALE: SHEET NO. 89 OF 147 SHEETS STA. 11+00 TO STA. 12+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	89
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72A02	

DATE	
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NOTE BOOK	
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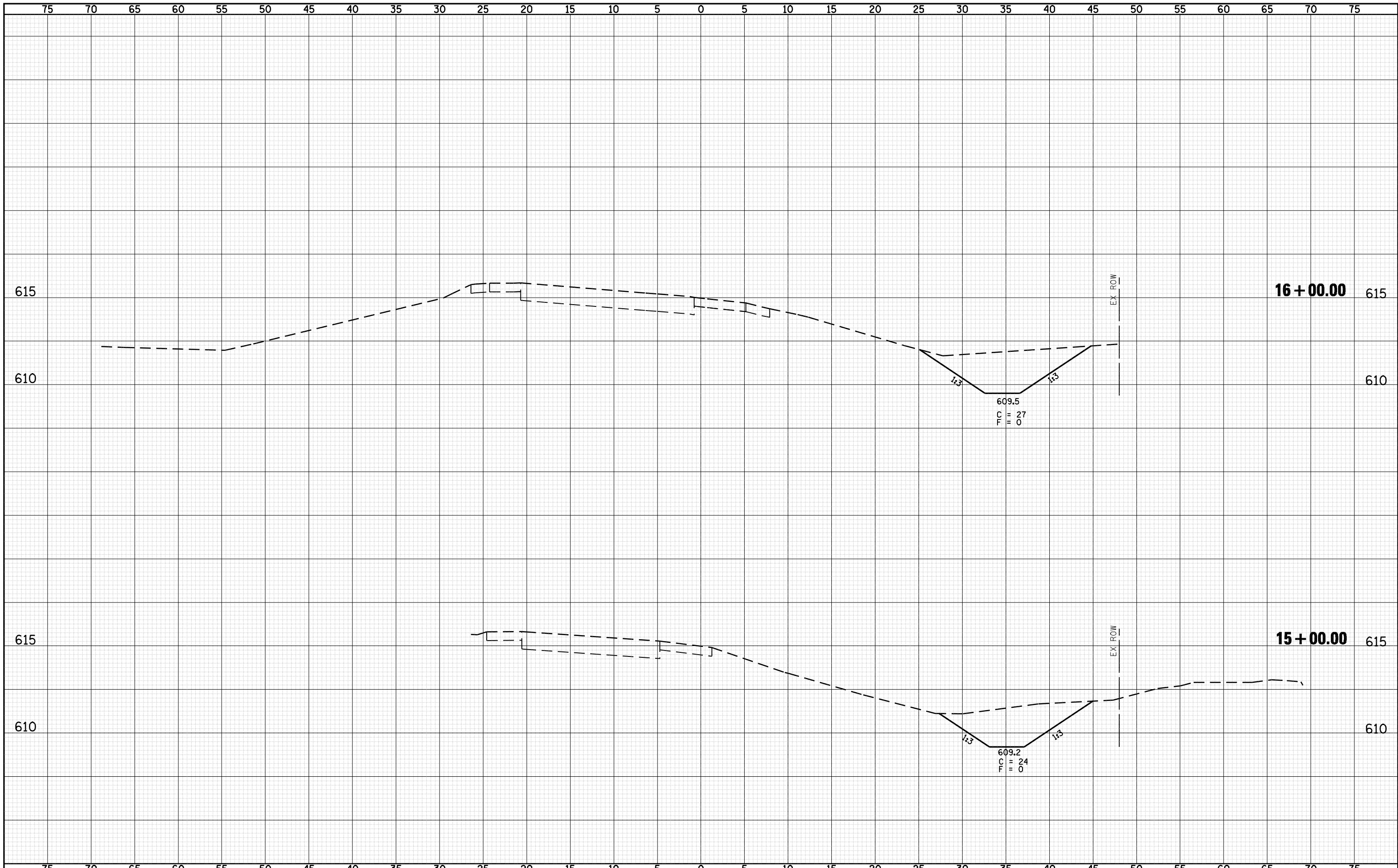
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>CROSS SECTIONS (INTERCHANGE RAMP A)</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwwid01\LAUGHLINRL\d0143507\0672A02	sh-t-xasht-ramp a.dgn	DRAWN -	REVISED -		8012	21(I-3)	SANGAMON	147	90			
PLOT SCALE = 10.0000 "/td> <td></td> <td>CHECKED -</td> <td>REVISED -</td> <td colspan="2">SCALE:</td> <td colspan="2">SHEET NO. 90 OF 187 SHEETS</td> <td colspan="2">STA. 13+00 TO STA. 14+00</td> <td colspan="2">CONTRACT NO. 72A02</td>		CHECKED -	REVISED -		SCALE:		SHEET NO. 90 OF 187 SHEETS		STA. 13+00 TO STA. 14+00		CONTRACT NO. 72A02	
PLOT DATE = May-18-2009 03:21:34PM		DATE -	REVISED -				FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED
	AREAS CHECKED

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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED
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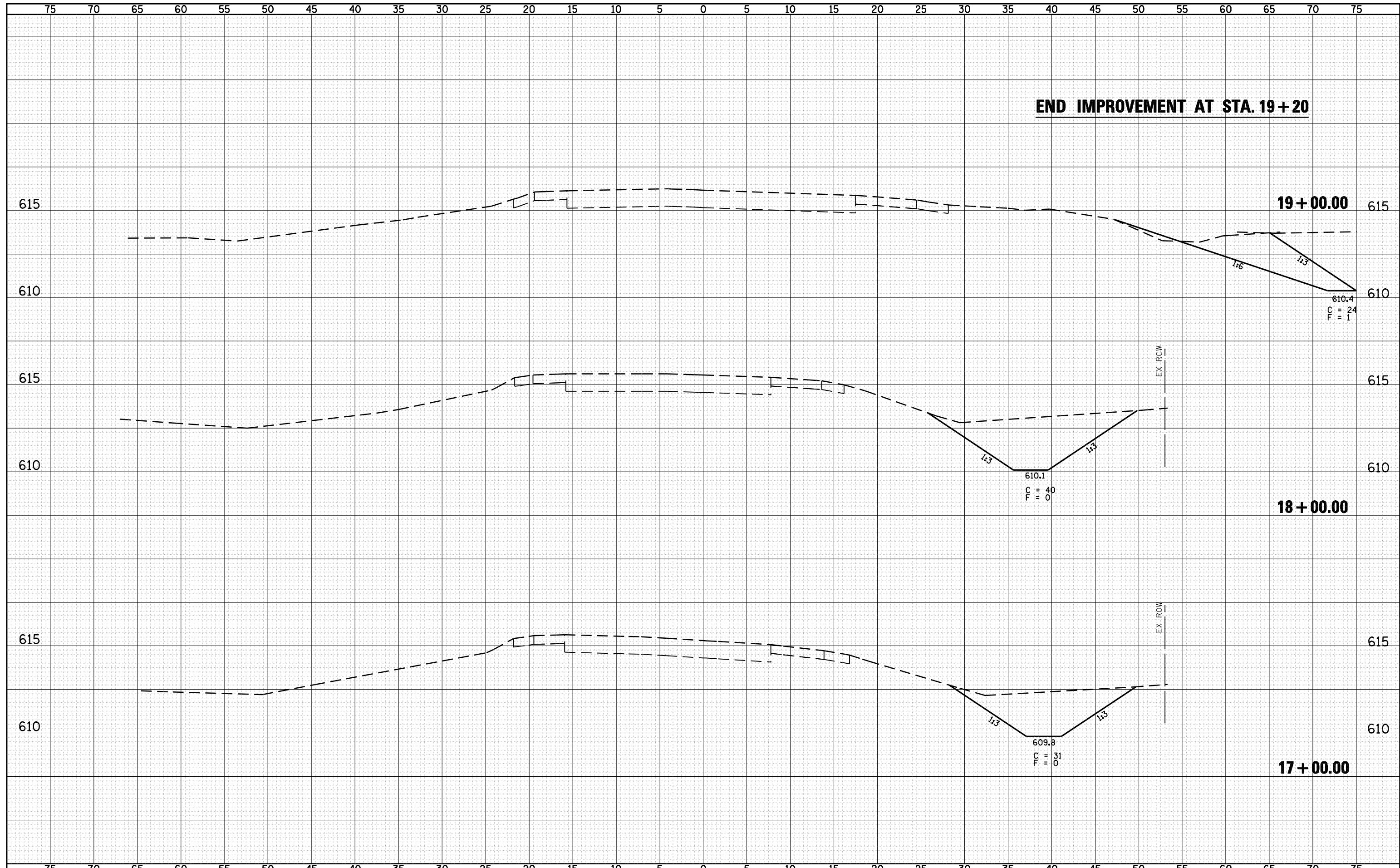
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

**CROSS SECTIONS (INTERCHANGE RAMP A)**  
 SCALE: SHEET NO. 91 OF 147 SHEETS STA. 15+00 TO STA. 16+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	91
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72A02	

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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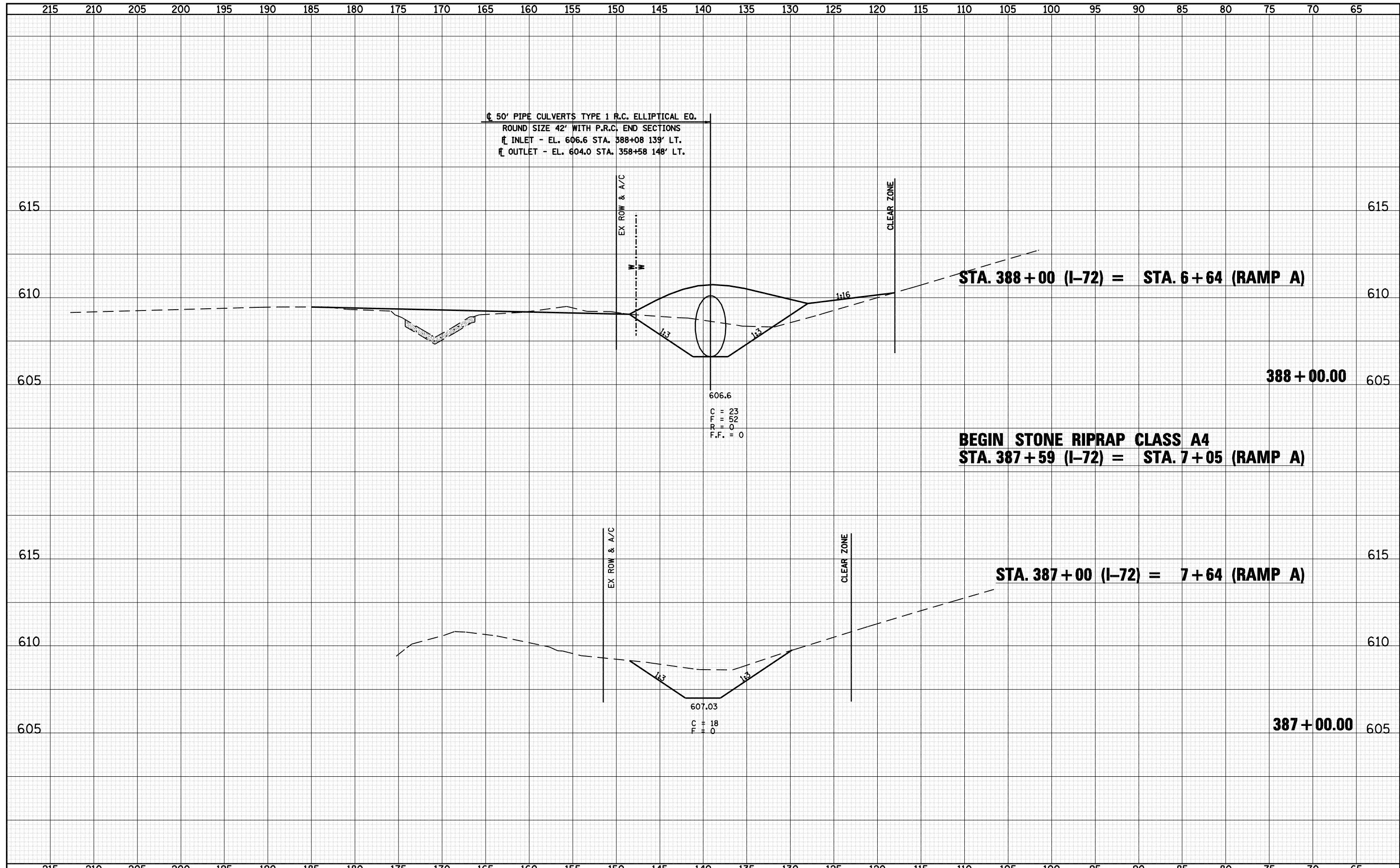
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS
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**END IMPROVEMENT AT STA. 19+20**

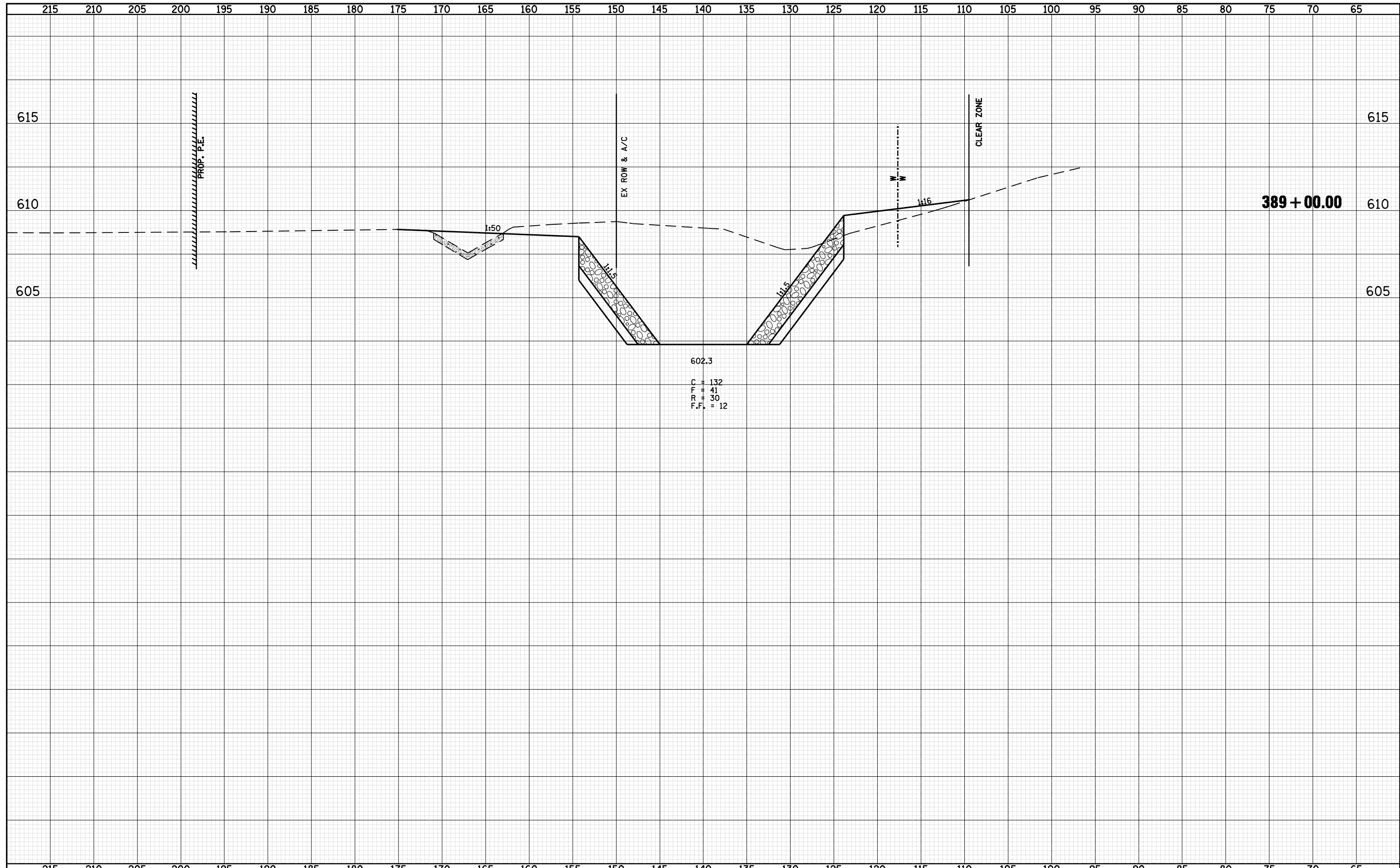
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DATE	
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TEMPLATE	
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DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED

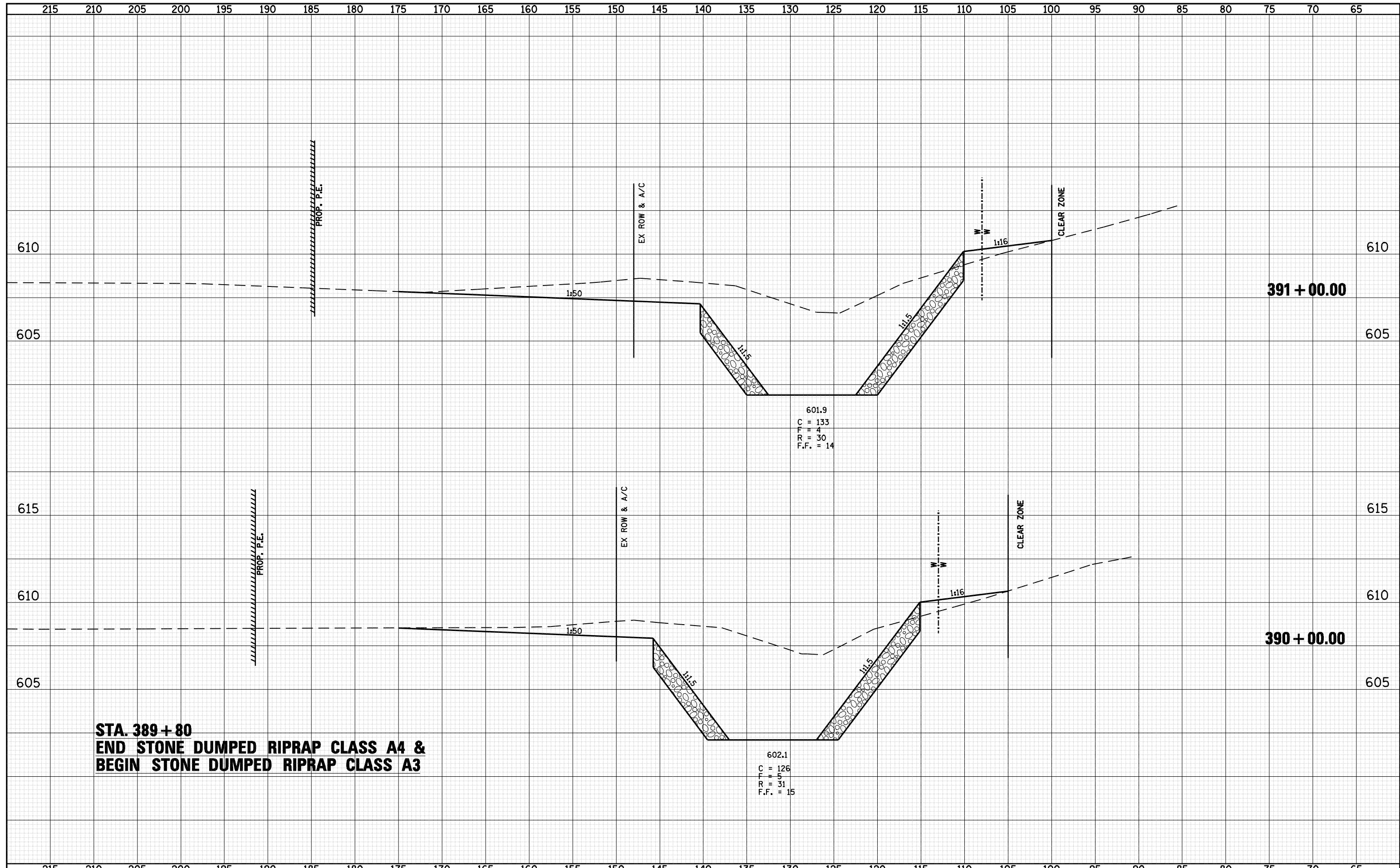
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED




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PLOT SCALE =	10.0000 "/ IN.	CHECKED -	REVISIED -	SCALE:	SHEET NO. 94 OF 147 SHEETS		STA. 389+00 TO STA. 389+00	8012	21(I-3)	SANGAMON	147	94	
PLOT DATE =	May-18-2009 03:21:43PM	DATE -	REVISIED -	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		CONTRACT NO. 72A02				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
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DATE	
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ORIGINAL SURVEY	
PLOTTED	
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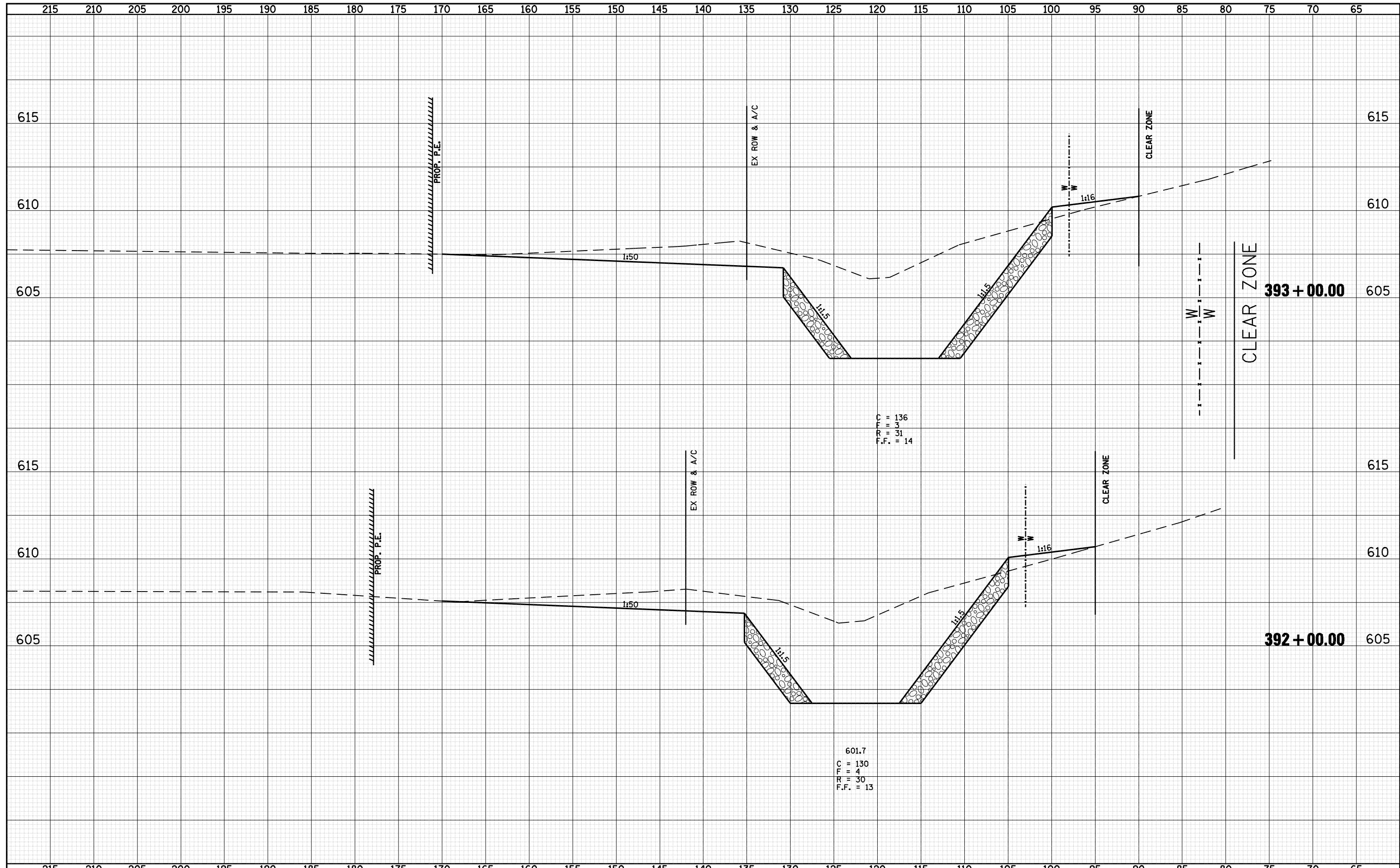


**STA. 389 + 80**  
**END STONE DUMPED RIPRAP CLASS A4 &**  
**BEGIN STONE DUMPED RIPRAP CLASS A3**

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>CROSS SECTIONS (WATERWAY NO. 1 &amp; 172)</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = May-18-2009 03:21:45PM		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						
				SCALE:	SHEET NO. 95 OF 147 SHEETS	STA. 390+00 TO STA. 391+00					

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
AREAS CHECKED	TEMPLATE
	AREAS CHECKED

DATE	
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NOTE BOOK	PLOTTED
AREAS CHECKED	TEMPLATE
	AREAS CHECKED

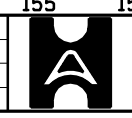


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 PLOT DATE = May-18-2009 03:21:47PM

DESIGNED -  
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 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

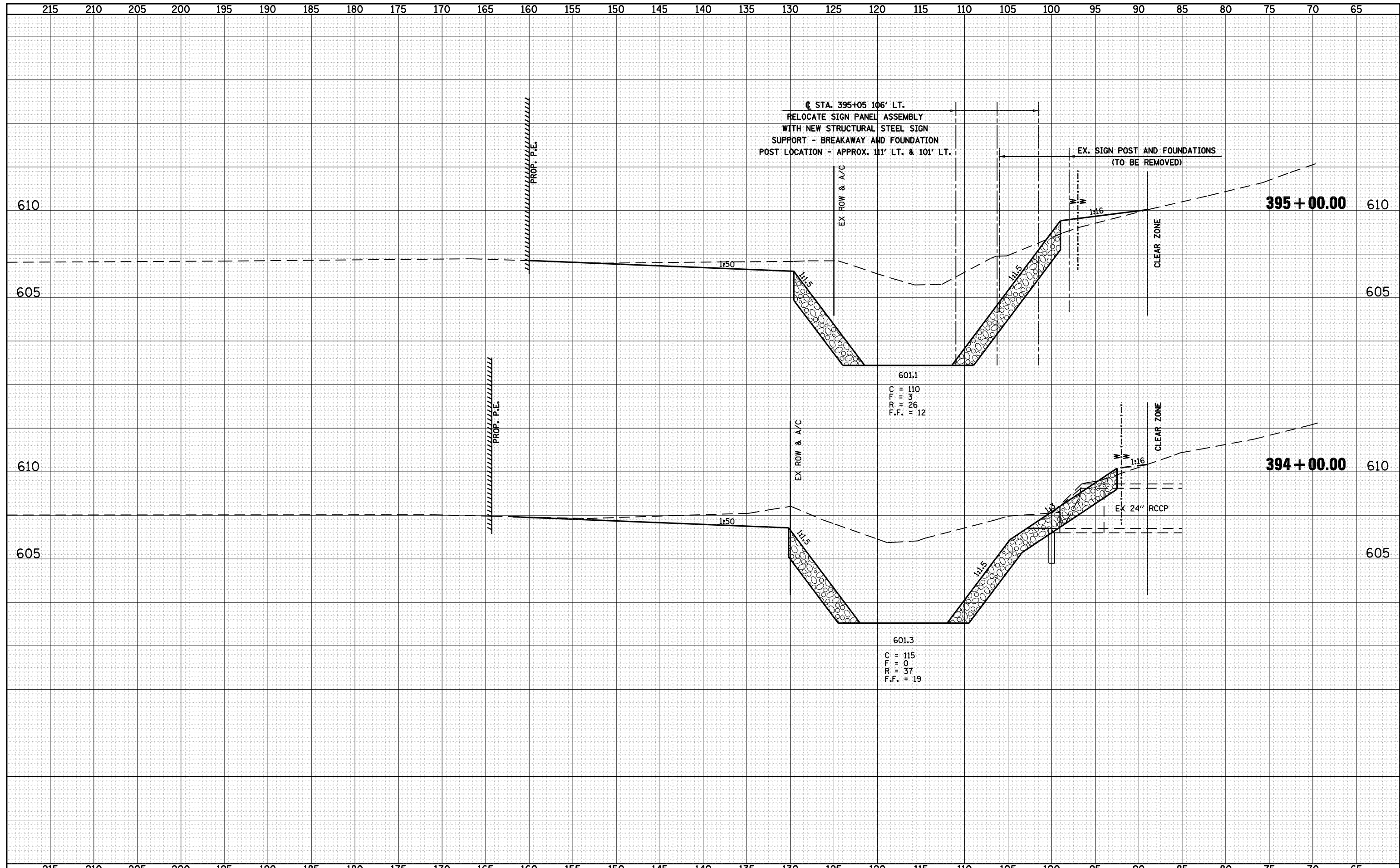
**CROSS SECTIONS (WATERWAY NO. 1 & 172)**  
 SCALE: SHEET NO. 96 OF 147 SHEETS STA. 392+00 TO STA. 393+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	96
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 72A02	



DATE	
BY	
FINAL SURVEY	
SURVEYED	
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TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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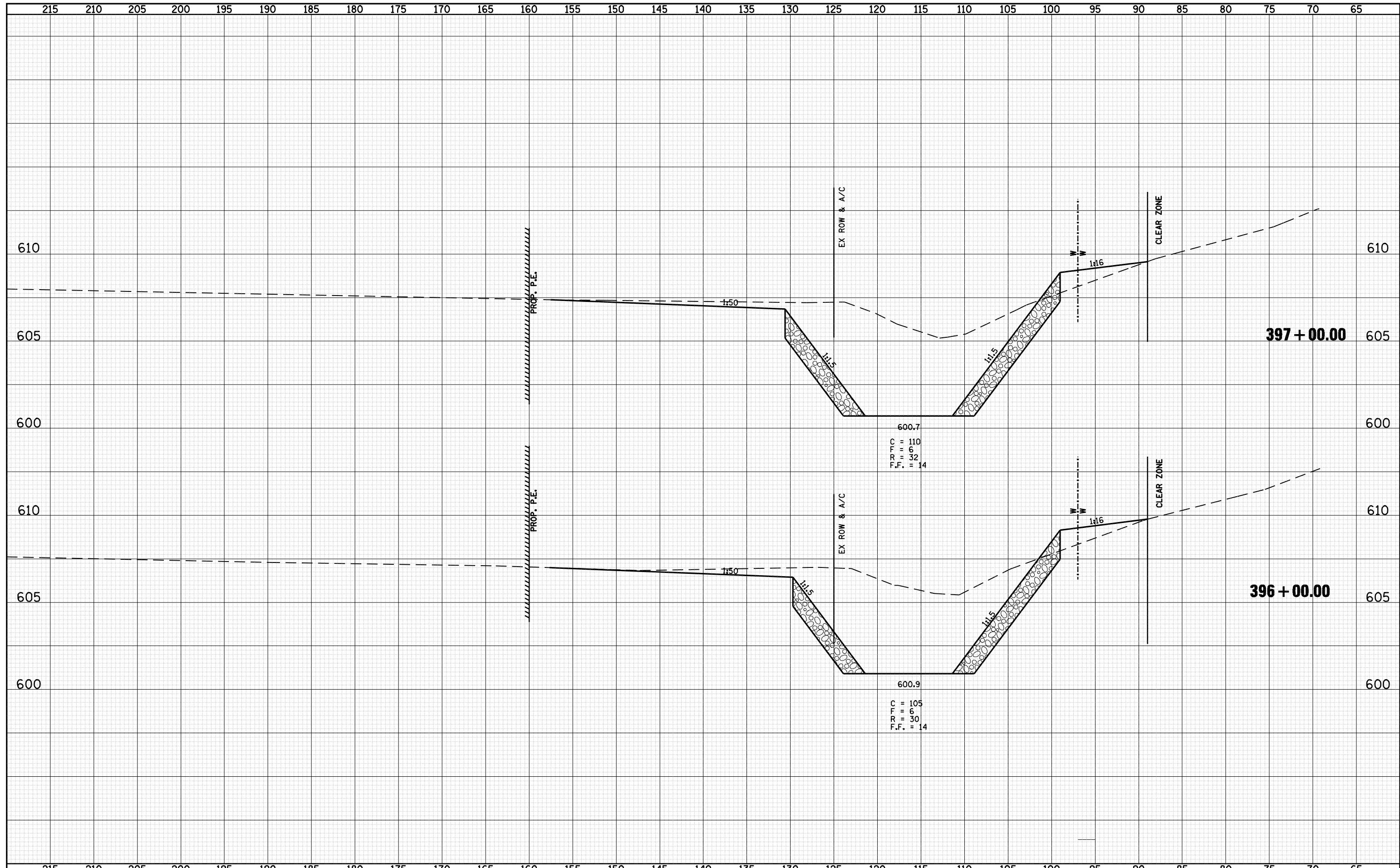
DATE	
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ORIGINAL SURVEY	
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NOTE BOOK	
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FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>CROSS SECTIONS (WATERWAY NO. 1 &amp; 172)</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\LAUGHLINRL\d0143507\0672A02	shh-xasht-172.dgn	DRAWN -	REVISED -		8012	21(I-3)	SANGAMON	147	97		
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PLOT DATE = May-18-2009 03:21:49PM	DATE -	REVISED -	SCALE:		SHEET NO. 97 OF 147 SHEETS	STA. 394+00 TO STA. 395+00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS
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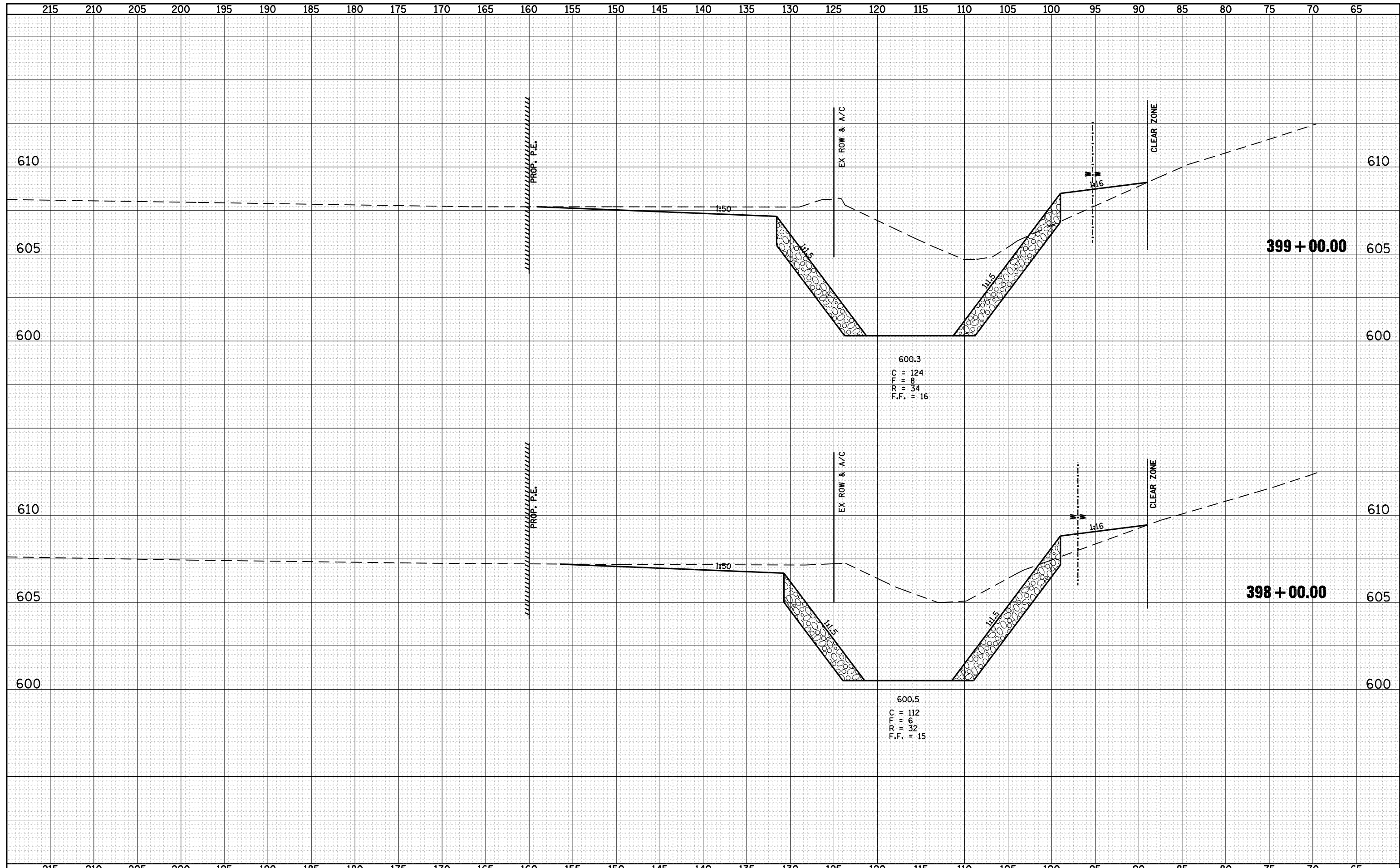
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FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>CROSS SECTIONS (WATERWAY NO. 1 &amp; 172)</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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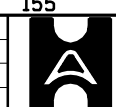


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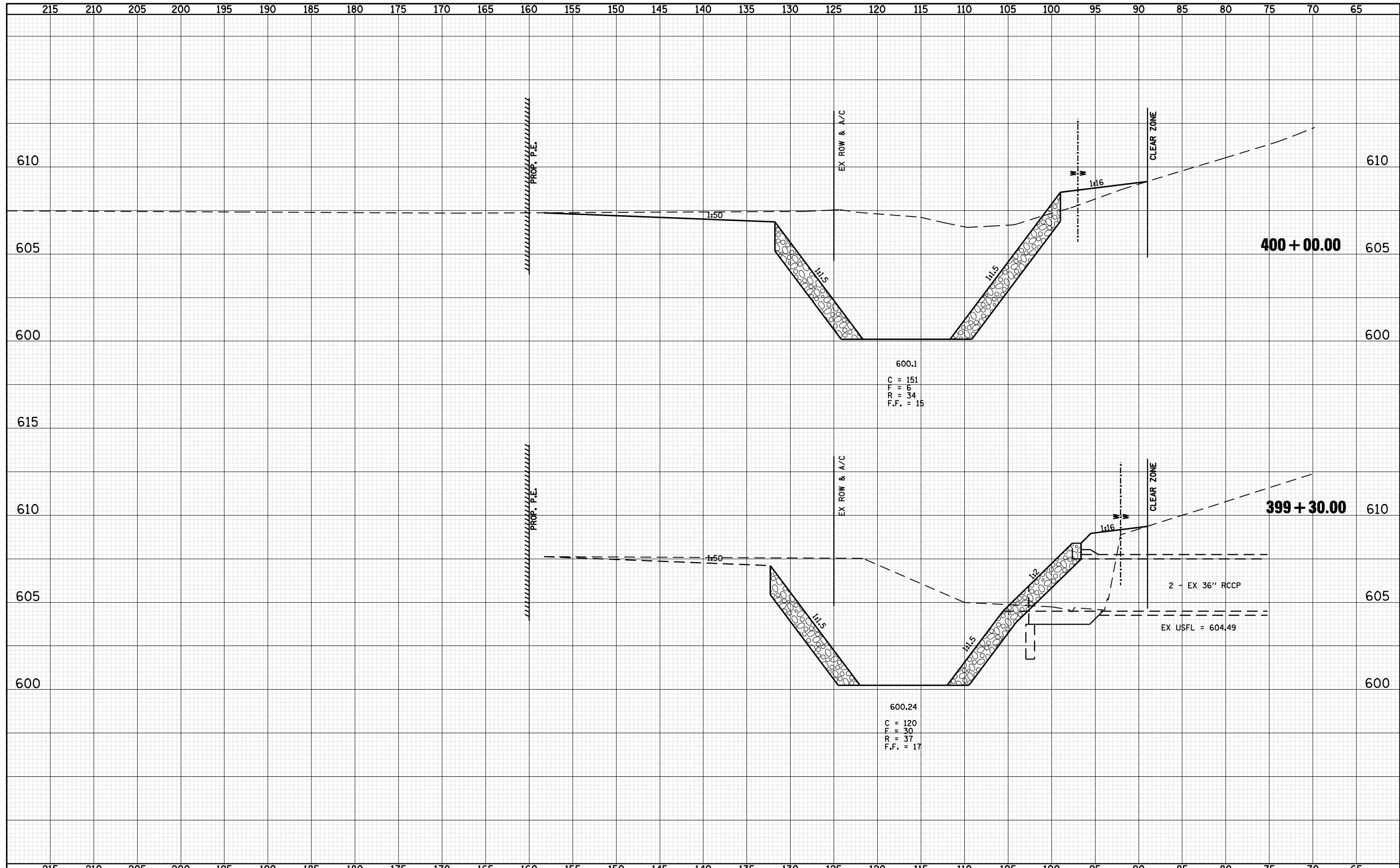
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907


**CROSS SECTIONS (WATERWAY NO. 1 & 172)**  
 SCALE: SHEET NO. 99 OF 147 SHEETS STA. 398+00 TO STA. 399+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8012	21(I-3)	SANGAMON	147	99
CONTRACT NO. 72A02				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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NOTE BOOK	PLOTTED
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	AREAS
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FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>CROSS SECTIONS (WATERWAY NO. 1 &amp; 172)</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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