

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 93600	

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06-14-13 LETTING ITEM 231

**STATE OF ILLINOIS  
CITY OF SPRINGFIELD**

**PLANS FOR PROPOSED  
IMPROVEMENT FOR**

**SURFACE TRANSPORTATION/BRIDGE PROGRAM  
F.A.U. 8006 (CHATHAM ROAD)  
SECTION 10-00470-00-BR  
PROJECT BRM-5146(080) / JOB NUMBER C-96-203-11  
SANGAMON COUNTY**

**LIST OF ILLINOIS DOT HIGHWAY STANDARDS**

000001-06	602411-03	701321-13
001006	602601-02	701606-08
280001-07	602701-02	701801-05
420401-09	604001-03	701901-02
424001-07	604006-04	704001-07
424026-01	604036-02	780001-03
515001-03	604066-02	781001-03
542301-03	604086-02	814001-02
602301-03	606001-05	886001-01
602306-03	701006-04	886006-01
602406-05	701306-03	BLR21-9

**LIST OF UTILITIES**

AT&T  
529 S. 7TH STREET  
FLOOR 3B  
SPRINGFIELD, IL. 62703  
ATTN: TERESA MAYER 789-8666

COMCAST  
711 SOUTH DIRKSEN PARKWAY  
SPRINGFIELD, IL. 62703  
ATTN: ROB DAVIS 788-5898 X 68232

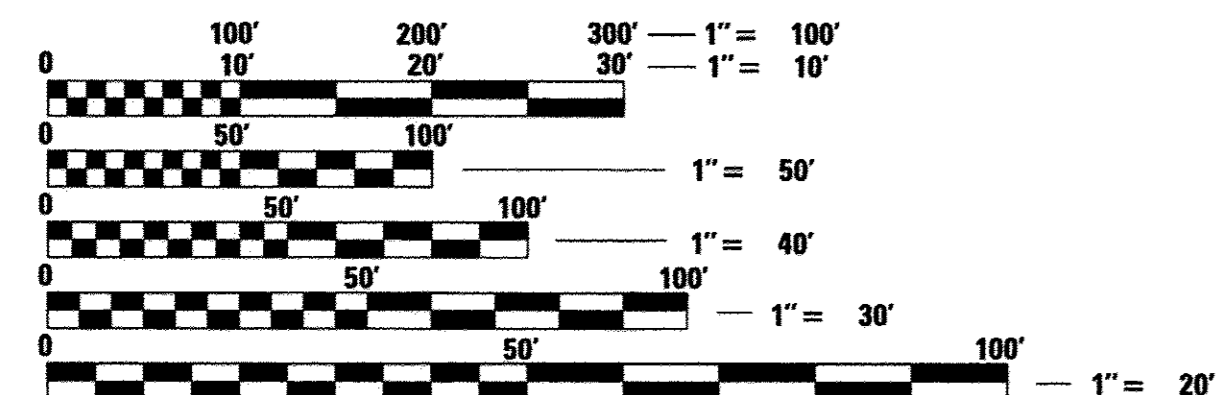
CITY WATER LIGHT & POWER - WATER DEPT.  
401 N. 11TH STREET  
SPRINGFIELD, IL. 62702  
ATTN: STEVE STEWART

SPRINGFIELD SANITARY DISTRICT  
3017 NORTH 8TH STREET  
SPRINGFIELD, IL. 62707  
ATTN: GREGG HUMPHREY 528-0491

CITY WATER LIGHT & POWER - ELECTRIC DEPT.  
1008 EAST MILLER STREET  
SPRINGFIELD, IL. 62702  
ATTN: ROB CUNNINGHAM 757-8520

AMEREN  
825 NORTH MACARTHUR  
SPRINGFIELD, IL. 62702  
ATTN: RICK COMBS 753-5187 (GAS)

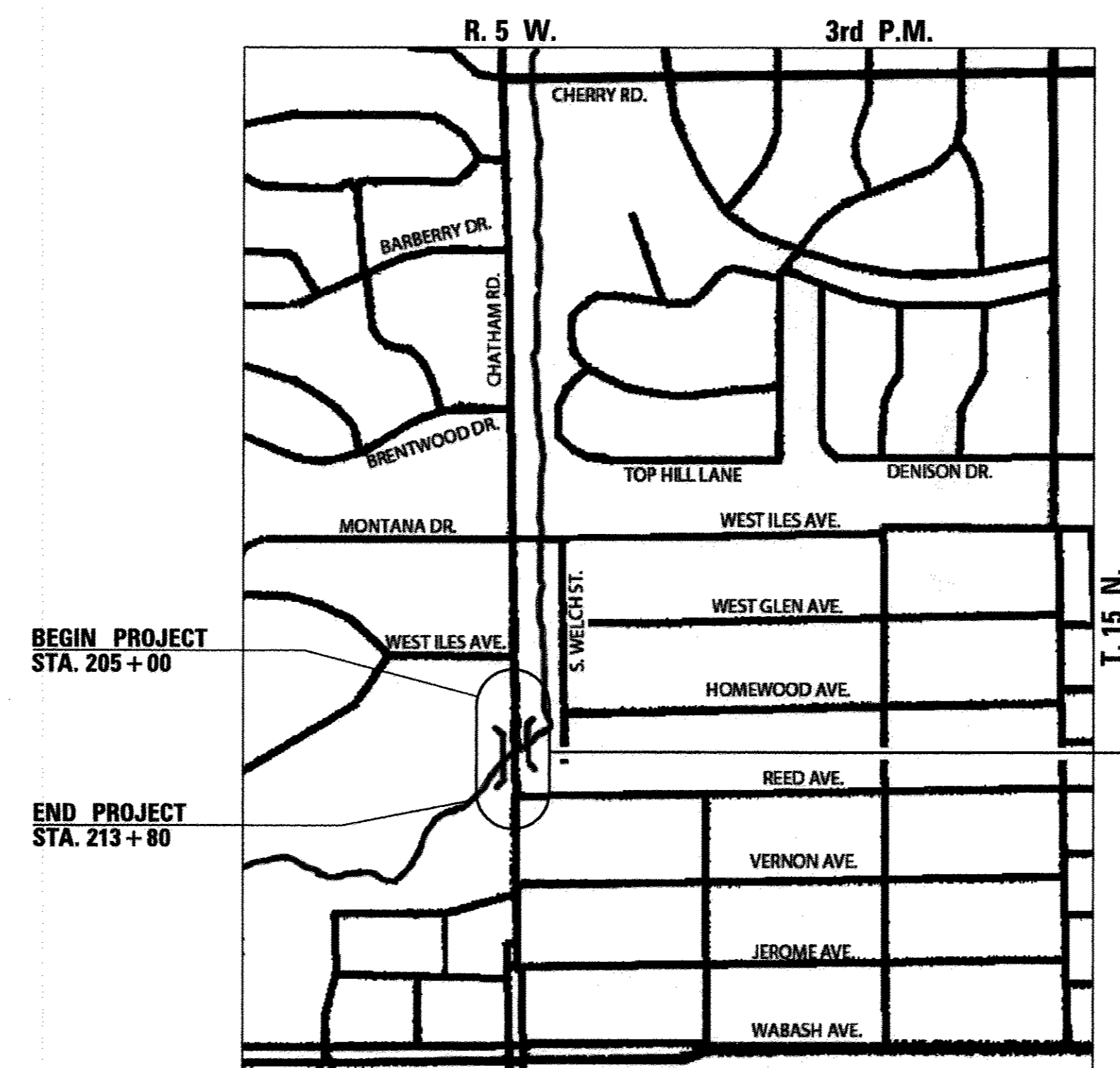
CITY OF SPRINGFIELD - PUBLIC WORKS  
7TH & MONROE STREETS  
ROOM 201 MUNICIPAL CENTER WEST  
SPRINGFIELD, IL. 62701  
ATTN: NATHAN BOTTOM 789-2260



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.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

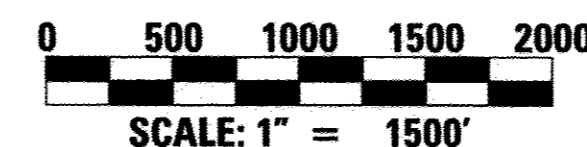
CONTRACT No. **93600**



BEGIN PROJECT STA. 205+00

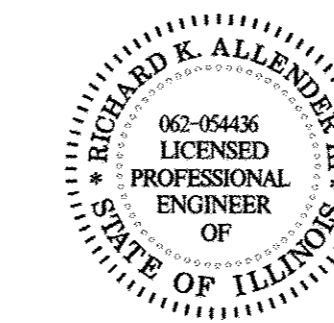
END PROJECT STA. 213+80

BRIDGE REMOVAL AND REPLACEMENT WITH APPROACH ROADWAY WORK. PROPOSED PPC DECK BEAM BRIDGE 127'-2" BK- BK ABUTMENTS 75'-0" OUT-OUT. DECK SKEW 45° RT. FWD. EX S.N. 084-3041 PR S.N. 084-6019

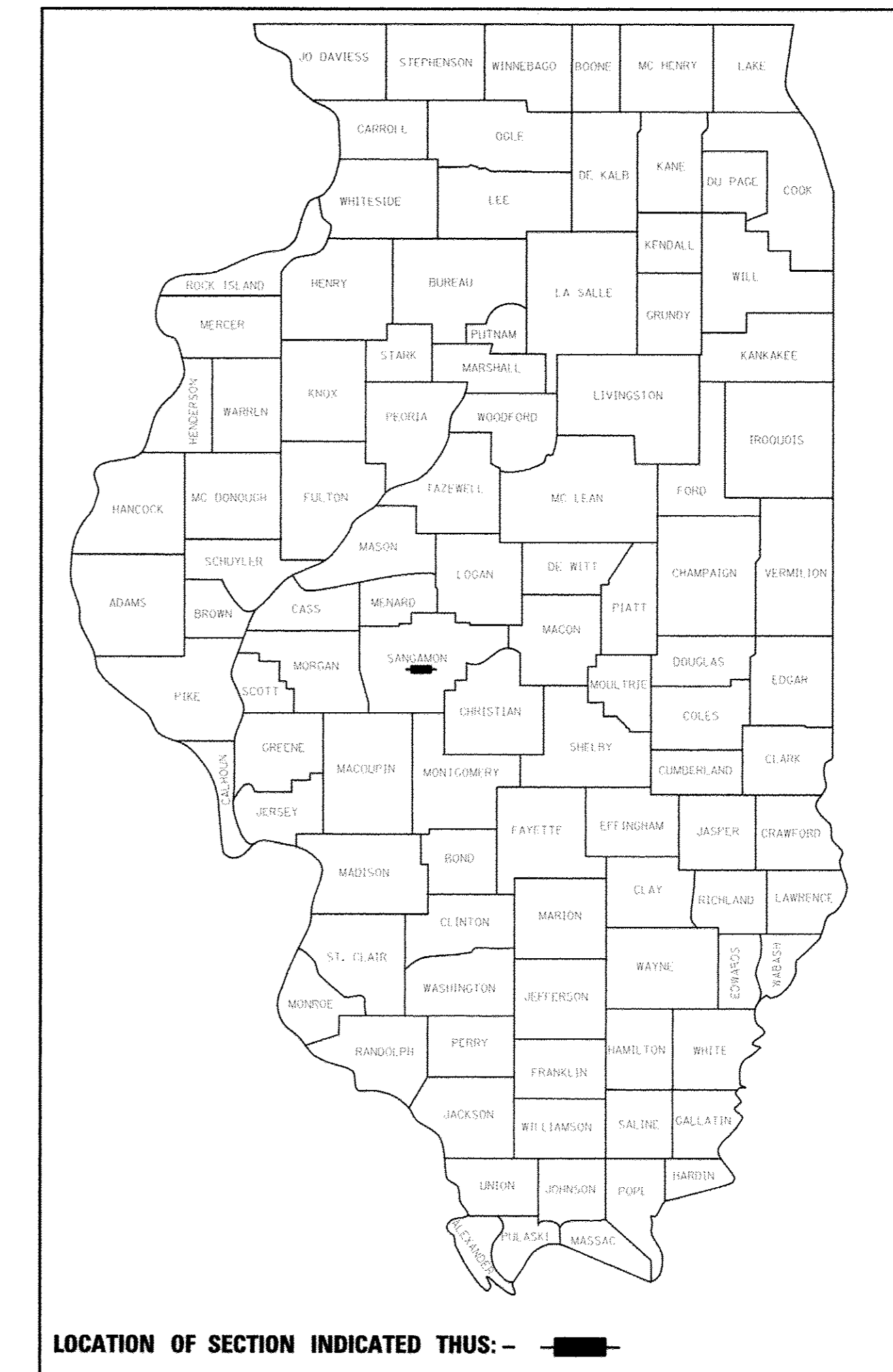


**LOCATION MAP - SPRINGFIELD, IL**

LENGTH OF SECTION - 880.00 FEET = 0.167 MILES



*Richard K. Alleder III* 3/15/13  
EXPIRATION: 11/30/2013



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

DESIGN ADT: 20368 (2032)  
FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL (URBAN) (TWS-4)  
DESIGN SPEED: 35 MPH

APPROVED March 5, 2013  
*Nathan Bottom*  
SPRINGFIELD CITY ENGINEER


PASSED 3-12, 2013  
*Teresa Hester*  
DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS

PASSED 3-12, 2013  
*Ron Chamberlain*  
DISTRICT SIX CONSTRUCTION ENGINEER

Releasing For Bid Based on Limited Review 3-12, 2013  
*Ron Chamberlain*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PRINTED BY THE AUTHORITY  
OF THE CITY OF SPRINGFIELD**

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



**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.) ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.
- 6.) ALL SAW CUTS, NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS, SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED.
- 7.) 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. SEE SECTION 780 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.
- 8.) 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 SEPARATELY BUT SHALL BE INCLUDED IN THE COST PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 9.) 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.
- 10.) 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.
- 11.) 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.
- 12.) 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.
- 13.) 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.
- 14.) 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.

**MIXTURE REQUIREMENTS**

MIXTURE USE(S)	HMA SURFACE	HMA BASE CRSE	INCIDENTAL HMA SURFACING
AC/PG	SBS PG 70-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N DESIGN = 70	4.0% @ N DESIGN = 70	4.0% @ N DESIGN = 70
MIXTURE COMPOSITION	IL 9.5	IL 19.0	IL 9.5
FRICTION AGGREGATE	MIX D	N/A	MIX D

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.
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.
AGRICULTURAL GROUND LIMESTONE	2.0 TON/ACRE
ROCKFILL - FOUNDATION	1.89 TON/CU. YD.

**COMMITMENTS**

- 1.) STORM WATER POLLUTION PREVENTION PLAN.

**GRAVITY SEWER CONSTRUCTION NOTES**

1. THE GRAVITY SEWER WITH APPURTENANCES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, "SIXTH EDITION", DATED JULY 2009 (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS") AND THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2012 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, AS APPLICABLE.
2. SANITARY SEWER SHALL BE REINFORCED CONCRETE PIPE CLASS IV, TYPE 3 WITH RUBBER GASKETS CONFORMING TO ASTM C-76 AND JOINTS CONFORMING TO ASTM C361 OR C443 AND DUCTILE IRON PIPE CONFORMING TO ANSI A 21.51 WITH GRAY OR DUCTILE IRON FITTINGS CEMENT LINED WITH BITUMINOUS COATING PER ANSI A 21.4, CONFORMING TO ANSI 21.11 FOR MECHANICAL OR RUBBER RING (SLIP SEAL OR PUSH ON) JOINTS.
3. BEDDING, HAUNCHING, AND INITIAL BACKFILL TO 12 INCHES ABOVE THE CROWN OF THE PIPE SHALL BE PER STANDARD DRAWING NO.2 OF THE STANDARD SPECIFICATIONS. THE BACKFILL MATERIAL SHALL BE IDOT GRADATION CA-7.
4. THE SANITARY SEWER SHALL BE TESTED IN ACCORDANCE WITH SECTION 31-1.12 AND 31-1.13 OF THE STANDARD SPECIFICATIONS. EXFILTRATION OF AIR PER SECTION 31-1.13A SHALL BE THE USED FOR LEAK TESTING.
5. IN ADDITION TO THE REQUIREMENTS OF SECTIONS 5-5 OF THE STANDARD SPECIFICATIONS, THE CONTRACTOR SHALL, PRIOR TO STARTING EXCAVATION, ASCERTAIN FROM ALL LOCAL UTILITIES, ESPECIALLY GAS AND WATER, THE EXACT LOCATIONS OF ALL MAINS AND BUILDING SERVICES IN THE AREA OF OPERATIONS, WHETHER SUCH ARE INDICATED ON THE PLANS OR NOT. ANY SUCH MAINS AND SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED. WHENEVER POSSIBLE, BUILDING OWNERS OR OCCUPANTS SHALL BE NOTIFIED IN ADVANCE IF THEIR UTILITY SERVICE IS TO BE DISCONNECTED AND NO BUILDING SHALL BE LEFT WITHOUT SERVICE OVERNIGHT.
6. ALL MATERIALS SHALL BE APPROVED BY ENGINEER AND THE CITY OF SPRINGFIELD PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE EXISTING GRAVITY SEWER TO VERIFY THE ALIGNMENT OF THE PROPOSED GRAVITY SEWER REPLACEMENT.
8. THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PROTECT PUBLIC AND PRIVATE PROPERTY. IF AT ANY TIME, PUBLIC OR PRIVATE PROPERTY IS DAMAGED OR DESTROYED, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, RESTORE SUCH PROPERTY TO A CONDITION EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE.
9. TRENCH BACKFILL AROUND THE GRAVITY SEWER SHALL BE COMPACTED ACCORDING TO SECTION 542.04 AND 550.07 OF THE STANDARD SPECIFICATIONS.
10. ALL SECTIONS, DETAILS, AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE, UNLESS OTHERWISE SHOWN.
11. ALL EXCESS EARTH FROM THE TRENCHES SHALL BE DISPOSED OF BY THE CONTRACTOR OFFSITE. DISPOSING OF EXCESS EARTH SHALL BE INCIDENTAL TO THE CONSTRUCTION OF THE GRAVITY SEWER.
12. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF SPRINGFIELD AT LEAST 48 HOURS PRIOR TO TAKING AN EXISTING GRAVITY SEWER OUT OF SERVICE.
13. WATER MAINS SHALL BE PROTECTED FROM SANITARY SEWERS, STORM SEWERS, COMBINED SEWERS, AND FORCEMAINS IN ACCORDANCE WITH SECTIONS 41-2.01A AND 41-2.01B
14. THE CONTRACTOR SHALL INSTALL EXCELSIOR BLANKET ON THE SIDE SLOPES OF THE CREEK, WHERE DISTURBED.
15. THE CONTRACTOR SHALL ACQUIRE NECESSARY PERMITS FROM THE CITY OF SPRINGFIELD OFFICE OF PUBLIC WORKS TO WORK IN THE PUBLIC RIGHT-OF-WAY.

**BY-PASS PUMPING**

BYPASS PUMPING MAY BE REQUIRED DURING CONSTRUCTION. BYPASS PUMPING WILL CONSIST OF PUMPING FROM EXISTING MANHOLE 100 AT THE UPSTREAM CONNECTION OF THE PROPOSED SEWER WITH THE EXISTING SEWER TO MANHOLE 426, THE FIRST MANHOLE DOWNSTREAM OF PROPOSED SPECIAL STRUCTURE NO. 1, APPROXIMATELY 81 FT NORTH OF THE INTERSECTION OF ILES AVE. WITH CHATHAM RD. BYPASS PUMPING AND ANY TEMPORARY FITTINGS NECESSARY FOR BYPASS PUMPING SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

EXISTING		EXISTING	PROPOSED	
	SURFACE WATER LINE		W	WATER
	SECTION LINE		G	GAS
	TREE/CROP LINE		E	ELECTRIC
	PROPERTY LINE		S	SANITARY
	RIGHT-OF-WAY		CTV	CABLE TELEVISION
	EDGE OF PAVEMENT		SS	STORM SEWER
	EDGE OF SHOULDER		PE	PERMANENT EASEMENT
	GUARDRAIL		TE	TEMPORARY EASEMENT
	FENCE LINE		B	BUILDING
	BURIED TELECOMMUNICATIONS		TSB	TELEPHONE SPLICE BOX
	BURIED FIBER OPTIC		H	HANDHOLE
	WATER VALVE		SB	SPLICE BOX
	FIRE HYDRANT			
	MANHOLE			
	LIGHT POLE			
	UTILITY POLE			


USER NAME = *USER*	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>GENERAL NOTES, COMMITMENTS &amp; MIX REQUIREMENTS</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = *SCALE*	DRAWN -	REVISED -					8006	10-00470-00-BR	SANGAMON	90	2
PLOT DATE = *DATE*	CHECKED -	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			CONTRACT NO. 936.0.0				
	DATE -	REVISED -					FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY	BRIDGE
				0004 URBAN	0011 084-6019
20100110	TREE REMOVAL ( 6 TO 15 UNITS DIAMETER)	UNIT	105	105	
20100500	TREE REMOVAL, ACRES	ACRE	0.7	0.7	
20200100	EARTH EXCAVATION	CU YD	1254	1254	
20300100	CHANNEL EXCAVATION	CU YD	1820	1820	
• 20800150	TRENCH BACKFILL	CU YD	694	694	
Δ 25000100	SEEDING, CLASS 1	ACRE	0.5	0.5	
Δ 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45	
Δ 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	45	
Δ 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45	
Δ 25100115	MULCH, METHOD 2	ACRE	0.5	0.5	
• 25100630	EROSION CONTROL BLANKET	SQ YD	275	275	
Δ 25200100	SODDING	SQ YD	941	941	
Δ 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	60	60	
28000305	TEMPORARY DITCH CHECKS	FOOT	30	30	

• SEE SPECIAL PROVISIONS


Δ SPECIALTY ITEMS

FILE NAME * \$FILEL\$	USER NAME * \$USER\$	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>SUMMARY OF QUANTITIES</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE * \$SCALE\$	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 9 SHEETS	STA.	TO STA.	8006	10-00470-00-BR	SANGAMON	90	3
	PLOT DATE * \$DATE\$	CHECKED -	REVISED -					CONTRACT NO. 93600					
		DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY	BRIDGE
				0004 URBAN	0011 084-6019
28000400	PERIMETER EROSION BARRIER	FOOT	890	890	
28000500	INLET AND PIPE PROTECTION	EACH	3	3	
28100207	STONE RIPRAP, CLASS A4	TON	2130	2130	
28200200	FILTER FABRIC	SQ YD	3030	3030	
31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	5145	5145	
35501326	HOT-MIX ASPHALT BASE COURSE, 10 1/2"	SQ YD	4467	4467	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	74	74	
40603540	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	376	376	
• 40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	88	88	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	117	117	
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	224	224	
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	5527	5527	
42400800	DETECTABLE WARNINGS	SQ FT	38	38	
• 44000100	PAVEMENT REMOVAL	SQ YD	3450	3450	


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FILE NAME = #FILE#	USER NAME = #USER#	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>SUMMARY OF QUANTITIES</b>			F.A.U. RTE. 8006	SECTION 10-00470-00-BR	COUNTY SANGAMON	TOTAL SHEETS 90	SHEET NO. 4
PLOT SCALE = #SCALE#	CHECKED -	REVISED -	REVISED -		SCALE: NONE	SHEET NO. 2 OF 9 SHEETS	STA.	TO STA.	CONTRACT NO. 93600			
PLOT DATE = #DATE#	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY	BRIDGE
				0004 URBAN	0011 084-6019
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	383	383	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1183	1183	
44000600	SIDEWALK REMOVAL	SQ FT	5390	5390	
• 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	24	24	
50200100	STRUCTURE EXCAVATION	CU YD	115		115
• 50200300	COFFERDAM EXCAVATION	CU YD	306		306
• 50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1		1
• 50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1		1
50300225	CONCRETE STRUCTURES	CU YD	481.7		481.7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	294.3		294.3
50300260	BRIDGE DECK GROOVING	SQ YD	1188		1188
• 50300280	CONCRETE ENCASEMENT	CU YD	23.8	14	9.8
50300300	PROTECTIVE COAT	SQ YD	1633		1633


• SEE SPECIAL PROVISIONS

FILE NAME	USER NAME	DESIGNED	REVISIONS	 <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>SUMMARY OF QUANTITIES</b> SCALE: NONE SHEET NO. 3 OF 9 SHEETS STA. TO STA.			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILE#	#USER#	DRAWN	REVISIONS					8006	10-00470-00-BR	SANGAMON	90	5
PLOT SCALE = #SCALE#	CHECKED	REVISIONS	REVISIONS		CONTRACT NO. 93600			ILLINOIS FED. AID PROJECT				
PLOT DATE = #DATE#	DATE	REVISIONS	REVISIONS									



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0004 URBAN	BRIDGE 0011 084-6019
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS ( 21" DEPTH)	SO FT	9307		9307
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	127520		127520
50800515	BAR SPLICERS	EACH	439		439
Δ 50901720	BICYCLE RAILING	FOOT	369		369
Δ 50901750	PARAPET RAILING	FOOT	344		344
51201610	FURNISHING STEEL PILES HP12X63	FOOT	3726		3726
51202305	DRIVING PILES	FOOT	3726		3726
51203610	TEST PILE STEEL HP12X63	EACH	4		4
51500100	NAME PLATES	EACH	1		1
54213687	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 42"	EACH	1	1	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	24	24	
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	34	34	
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	40	40	
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	17	17	


• SEE SPECIAL PROVISIONS  
Δ SPECIALTY ITEMS

FILE NAME = \$FILEL\$	USER NAME = \$USER\$	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>SUMMARY OF QUANTITIES</b>			F.A.J. RTE. 8006	SECTION 10-00470-00-BR	COUNTY SANGAMON	TOTAL SHEETS 90	SHEET NO. 6
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	REVISED -		SCALE: NONE	SHEET NO. 4 OF 9 SHEETS	STA.	TO STA.	CONTRACT NO. 93600			
PLOT DATE = \$DATE\$	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



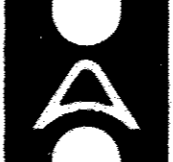
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY	BRIDGE
				0004 URBAN	0011 084-6019
550A0470	STORM SEWERS, CLASS A, TYPE 2 42"	FOOT	74	74	
55100500	STORM SEWER REMOVAL 12"	FOOT	56	56	
55100700	STORM SEWER REMOVAL 15"	FOOT	26	26	
55101800	STORM SEWER REMOVAL 42"	FOOT	121	121	
60218500	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1	1	
60219500	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 15 FRAME AND LID	EACH	3	3	
60221100	MANHOLES, TYPE A, 5' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2	
60223810	MANHOLES, TYPE A, 6' -DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1	1	
60224447	MANHOLES, TYPE A, 7' -DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1	1	
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1	
60240215	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60240320	INLETS, TYPE B, TYPE 15 FRAME AND LID	EACH	1	1	
60255500	MANHOLES TO BE ADJUSTED	EACH	2	2	
60255900	MANHOLES TO BE ADJUSTED WITH NEW TYPE 3 FRAME AND GRATE	EACH	1	1	

• SEE SPECIAL PROVISIONS

FILE NAME = #FILE#	USER NAME = #USER#	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>SUMMARY OF QUANTITIES</b>			F.A.U. RTE. 8006	SECTION 10-00470-00-BR	COUNTY SANGAMON	TOTAL SHEETS 90	SHEET NO. 7
PLOT SCALE = #SCALE#	CHECKED -	REVISED -	REVISED -		SCALE: NONE	SHEET NO. 5 OF 9 SHEETS	STA.	TO STA.	CONTRACT NO. 93600			
PLOT DATE = #DATE#	DATE	REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY	BRIDGE
				0004 URBAN	0011 084-6019
60256930	MANHOLES TO BE ADJUSTED WITH NEW TYPE 23 FRAME AND GRATE	EACH	1	1	
60260400	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	3	3	
60263000	INLETS TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60500040	REMOVING MANHOLES	EACH	1	1	
60500060	REMOVING INLETS	EACH	2	2	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6. 24	FOOT	1342	1342	
67100100	MOBILIZATION	L SUM	1	1	
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	618	618	
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	8650	8650	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	115	115	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2752	2752	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	512.5	512.5	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	312.5	312.5	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	

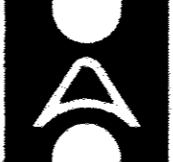
• SEE SPECIAL PROVISIONS

FILE NAME * #FILEL#	USER NAME * #USER#	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>SUMMARY OF QUANTITIES</b>		F.A.J. RTE. 8006	SECTION 10-00470-00-BR	COUNTY SANGAMON	TOTAL SHEETS 90	SHEET NO. 8	
PLOT SCALE * #SCALE#	CHECKED -	REVISED -	REVISED -		SCALE: NONE	SHEET NO. 6 OF 9 SHEETS	STA. TO STA.	CONTRACT NO. 93600				
PLOT DATE * #DATE#	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0004 URBAN	BRIDGE 0011 084-6019
• 70600330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE). TEST LEVEL 3	EACH	2	2	
Δ 78005100	EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	110	110	
Δ 78005120	EPOXY PAVEMENT MARKING - LINE 5"	FOOT	2956	2956	
Δ 78005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	300	300	
Δ 78005180	EPOXY PAVEMENT MARKING - LINE 24"	FOOT	50	50	
Δ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	104	104	
78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	34	34	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1016	1016	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	12	12	
Δ 81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	140	140	
Δ 81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	87	87	
Δ 81400100	HANDHOLE	EACH	2	2	
Δ 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	227	227	
Δ 88600100	DETECTOR LOOP, TYPE 1	FOOT	308	308	

• SEE SPECIAL PROVISIONS  
Δ SPECIALTY ITEMS

FILE NAME = #FILE#	USER NAME = #USER#	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>SUMMARY OF QUANTITIES</b>			F.A.U. RTE. 8006	SECTION 10-00470-00-BR	COUNTY SANGAMON	TOTAL SHEETS 90	SHEET NO. 9
	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 7 OF 9 SHEETS	STA.	TO STA.	CONTRACT NO. <b>93600</b>			
	PLOT DATE = #DATE#	CHECKED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

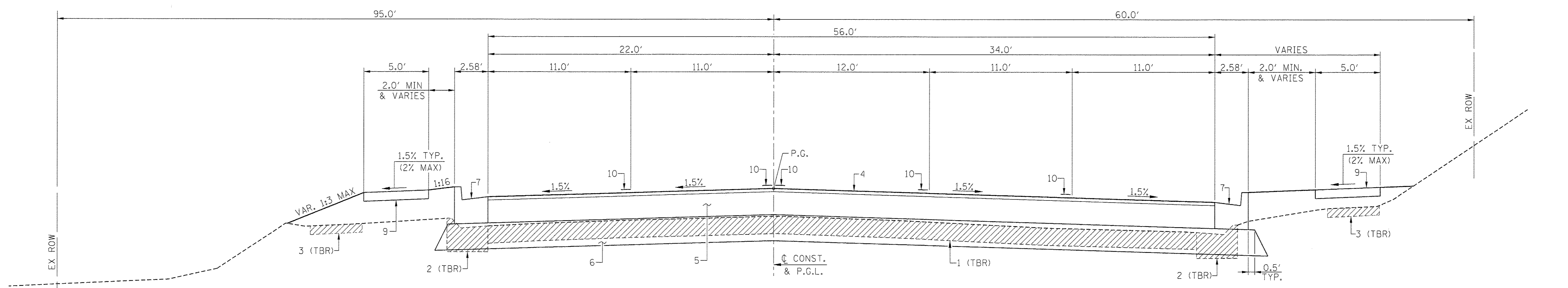
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY 0004	BRIDGE 0011
				URBAN	084-6019
Δ • B0237345	TREE, PYRUS CALLERYANA CLEVELAND (CLEVELAND SELECT CALLERY PEAR), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	4	4	
• Z0004510	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"	SQ YD	64	64	
• Z0004544	HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL	SQ YD	64	64	
• Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
• Z0024478	FLEXIBLE DELINEATORS	EACH	34	34	
• Z0026407	TEMPORARY SHEET PILING	SQ FT	372		372
• Z0028462	GEOTEXTILE RETAINING WALL	SQ FT	1228	1228	
Δ • Z0057700	SANITARY SEWER 30"	FOOT	687	687	
• Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	365		365
Δ • X0322791	FILL EXISTING SANITARY SEWERS	CU YD	93	93	
• X0326861	PULVERIZATION	SQ YD	1226	1226	
Δ • X0327073	STEEL CASING PIPE, AUGERED AND JACKED, 42"	FOOT	70	70	
• X4400220	CURB REMOVAL AND REPLACEMENT	FOOT	25	25	
• X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	1037		1037

• SEE SPECIAL PROVISIONS  
Δ SPECIALTY ITEMS

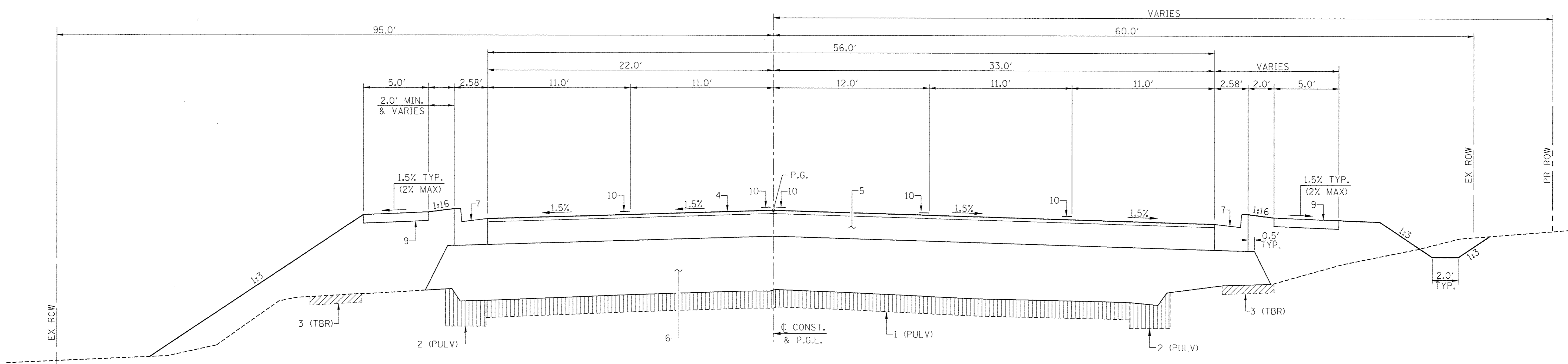


CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY	BRIDGE
				0004 URBAN	0011 084-6019
• X5121800	PERMANENT STEEL SHEET PILING	SQ FT	2211	365	1846
• X6020084	MANHOLE, SPECIAL	EACH	1	1	
• X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
• XX007810	UTILITY PIPE REMOVAL	FOOT	150	150	

• SEE SPECIAL PROVISIONS



**TYPICAL SECTION #1**  
STA. 205+00 TO STA. 206+50



**TYPICAL SECTION #2**  
STA. 206+50 TO STA. 207+31.82  
(BRIDGE OMISSION - STA. 207+31.82 TO STA. 209+16.17)

**STRUCTURAL PAVEMENT DESIGN INFORMATION**

DESIGN TRAFFIC: 19865 (23)  
 97% PV 1.5% SU 1.5% MU  
 CLASS 1 - 80K  
 TF: 1.67  
 DESIGN STRAIN: 89 EAC; 520  
 USE 12" HMA BASE & SURFACE COURSE WITH 12" MIN. SUBBASE GRANULAR

**PAVEMENT LEGEND**

1. EX PCC PAVEMENT
2. EX CONC C&G
3. EX CONC SIDEWALK
4. PR HMA SURFACE COURSE (1 1/2")
5. PR HMA BASE COURSE (10 1/2")
6. PR SUBBASE GRANULAR MATERIAL, TYPE A (12" MIN.)
7. PR COMB CONC C&G (B-6.24)
8. PR GEOTEXTILE RETAINING WALL
9. PR CONC SIDEWALK (4")
10. PR PVMT MARKING
11. PR TEMP PVMT MARKING

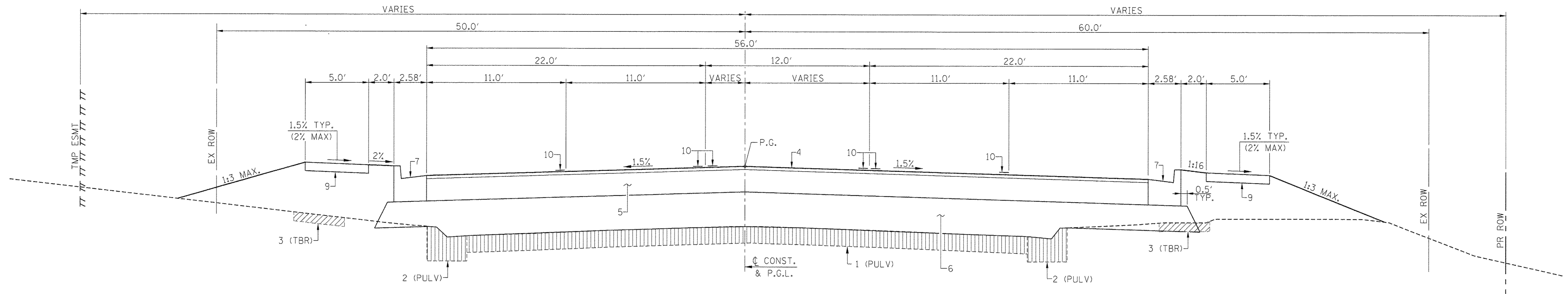
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#FILE#		DRAWN -	REVISED -
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 No. 184-001907

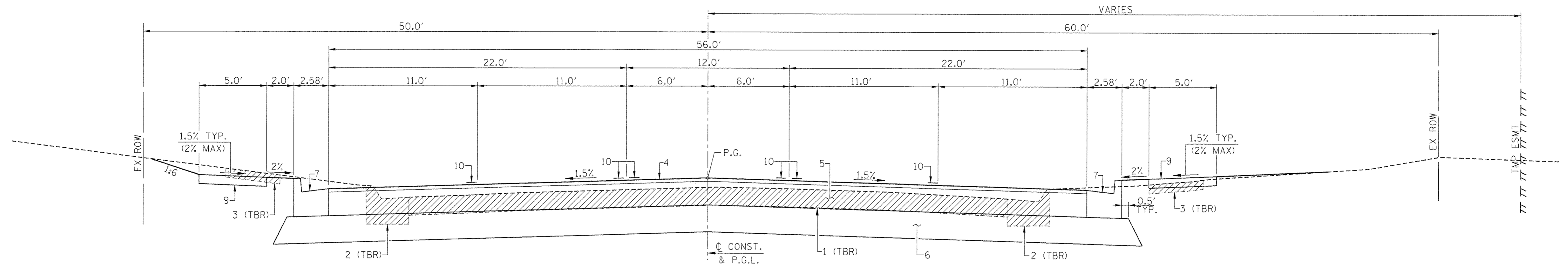
TYPICAL SECTIONS	
SCALE: VARIES	SHEET NO. 1 OF 2 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	12
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 93600	





**TYPICAL SECTION #3**  
 STA. 209+16.17 TO STA. 210+85



**TYPICAL SECTION #4**  
 STA. 210+85 TO STA. 213+80

**PAVEMENT LEGEND**

1. EX PCC PAVEMENT
2. EX CONC C&G
3. EX CONC SIDEWALK
4. PR HMA SURFACE COURSE (1 1/2")
5. PR HMA BASE COURSE (10 1/2")
6. PR SUBBASE GRANULAR MATERIAL, TYPE A (12" MIN.)
7. PR COMB CONC C&G (B-6.24)
8. PR GEOTEXTILE RETAINING WALL
9. PR CONC SIDEWALK (4")
10. PR PVMT MARKING
11. PR TEMP PVMT MARKING

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -
*FILEL#		DRAWN -	REVISED -
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -
	PLOT DATE = *DATE*	DATE -	REVISED -

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 No. 184-001907

<b>TYPICAL SECTIONS</b>			
SCALE: VARIES	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	13
CONTRACT NO. <b>93600</b>				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

EARTHWORK				
LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU. YD.	CU. YD.	CU. YD.	CU. YD.
STA. 205+00 TO STA. 208+00	343	257	272	-15
STA. 208+50 TO SA. 213+80	911	683	368	315
TOTAL	1254	940	640	300

SEEDING					
LOCATION	SEEDING CLASS 1	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2
	ACRE	POUND	POUND	POUND	ACRE
STA. 205+00 TO STA. 207+28 LT	0.08	7	7	7	0.08
STA. 208+27 TO STA. 208+87 LT	0.02	2	2	2	0.02
STA. 207+00 TO STA. 209+72 RT	0.2	18	18	18	0.2
STA. 209+32 TO STA. 213+63 RT	0.2	18	18	18	0.2
TOTAL	0.5	45	45	45	0.5

TREE REMOVAL		
LOCATION	TREE REMOVAL, (6 TO 15) UNITS	TREE REMOVAL, ACRES
	STA. 205+93, 39' LT.	15
STA. 206+13, 39' LT.	15	
STA. 206+25, TO STA. 208+35 LT.		0.3
STA. 206+58, 38' LT.	15	
STA. 206+78, 38' LT.	15	
STA. 206+97, 38' LT.	15	
STA. 207+17, 38' LT.	15	
STA. 207+58, 38' LT.	15	
STA. 208+25 TO STA. 210+65 RT.		0.4
TOTAL	105	0.7

PULVERIZATION	
LOCATION	QUANTITY
	SQ YD
STA. 206+50 TO STA. 207+50	620
STA. 209+00 TO STA. 210+10	606
TOTAL	1226

PAVEMENT REMOVAL	
LOCATION	QUANTITY
	SQ YD
STA. 205+00 TO STA. 206+50	915
STA. 207+50 TO STA. 208+00	255
STA. 208+72 TO STA. 209+00	140
STA. 210+10 TO STA. 213+80	2140
TOTAL	3450

SODDING	
LOCATION	QUANTITY
	SQ YD
STA. 205+00 TO STA. 207+00 RT	229
STA. 208+85 TO STA. 213+20 RT	675
STA. 214+19 TO STA. 214+44 LT. (ST II TEMP ACCESS)	37
TOTAL	941

HMA SURFACE REMOVAL - BUTT JOINT	
LOCATION	QUANTITY
	SQ. YD.
STA. 213+81 RT - CE	74
TOTAL	74

TREE (CLEVELAND GALLERY PEAR)	
LOCATION	QUANTITY
	EACH
STA. 206+03, 37' LT.	1
STA. 206+23, 37' LT.	1
STA. 206+43, 37' LT.	1
STA. 206+63, 37' LT.	1
TOTAL	4

TRENCH BACKFILL	
LOCATION	QUANTITY
	CU YD
STA. 207+70 TO STA. 207+90, 19' RT. (SAN SEWER)	295
STA. 208+95 TO STA. 209+20, 19' RT. (SAN SEWER)	368
STA. 208+83, 24' RT TO STA. 210+21, 30' RT	14.5
STA. 210+16.5, 43' RT TO STA. 210+23, 34' RT	11.5
STA. 210+76, 49' LT TO STA. 210+76, 56' LT	1.5
STA. 210+78.5, 58' LT TO STA. 211+05, 58' LT	3.5
TOTAL	694

PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	
LOCATION	QUANTITY
	SQ FT
STA. 205+00 TO STA. 207+06 LT	1010
STA. 208+85 TO STA. 209+67, 8 LT	390
STA. 209+87.8 TO STA. 210+72 LT	400
STA. 211+14 TO STA. 213+13.5 LT	970
STA. 213+59 TO STA. 213+80 LT	90
STA. 205+75 TO STA. 207+74 RT	980
STA. 209+54 TO STA. 211+90 RT	1160
STA. 212+27 TO STA. 212+51 RT	100
STA. 212+90 TO STA. 213+59 RT	330
STA. 214+19 TO STA. 214+44 LT. (ST II TEMP ACCESS)	97
TOTAL	5527

CHANNEL EXCAVATION	
LOCATION	QUANTITY
	CU YD
STA. 206+50 LT TO STA. 209+75 RT	1820
TOTAL	1820

SUBBASE GRANULAR MATERIAL, TYPE A	
LOCATION	QUANTITY
	TON
STA. 205+00 TO STA. 208+00	1965
STA. 208+50 TO STA. 213+80	3150
STA. 209+78 LT - PE	30
TOTAL	5145

CURB REMOVAL AND REPLACEMENT	
LOCATION	QUANTITY
	FOOT
STA. 214+19.5 TO STA. 214+43.8', 48' LT (ST II TEMP ACCESS)25	25
TOTAL	25

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

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
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 REVISED -



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 No. 184-001907

**QUANTITY SCHEDULES**  
 SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	14
CONTRACT NO. 93600				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



HMA PAVEMENT			
LOCATION	HMA BASE COURSE	HMA SURFACE* COURSE	INCIDENTAL HMA SURFACING
	10 1/2" SQ YD	MIX "D", N70 TON	TON
STA. 205+00 TO STA. 207+31.82	1480	125	
STA. 209+16.17 TO STA. 213+80	2987	251	
STA. 213+81 RT - CE			6.5
STA. 213+67 RT - TEMP ST I			63
STA. 214+32 LT - TEMP CE ST II			18.5
TOTAL	4467	376	88

\* POLYMERIZED

PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT		
LOCATION	PORTLAND CEMENT CONCRETE DRIVEWAY, 6 INCH	PORTLAND CEMENT CONCRETE DRIVEWAY, 8 INCH
	SQ YD	SQ YD
STA. 209+78 LT - PE	117	
STA. 212+08 RT - CE		76
STA. 212+70 RT - CE		58
STA. 213+36 LT - CE		90
TOTAL	117	224

DRIVEWAY PAVEMENT REMOVAL	
LOCATION	QUANTITY
	SQ YD
STA. 209+78 LT - PE	117
STA. 212+08 RT - CE	102
STA. 212+70 RT - CE	72
STA. 213+36 LT - CE	92
TOTAL	383

COMBINATION CURB AND GUTTER REMOVAL	
LOCATION	QUANTITY
	FOOT
STA. 205+00 TO STA. 206+50 LT	150
STA. 207+25 TO STA. 207+77 LT	52
STA. 208+48 TO STA. 208+78 LT	30
STA. 210+10 TO STA. 210+80 LT	81
STA. 211+06 TO STA. 213+80 LT	286
STA. 205+00 TO STA. 206+50 RT	150
STA. 207+74 TO STA. 208+25 RT	51
STA. 208+94 TO STA. 209+25 RT	31
STA. 210+10 TO STA. 213+37 RT	327
STA. 214+20 TO STA. 214+45 LT (ST II TEMP ACCESS)	25
TOTAL	1183

STORM SEWER REMOVAL					
LOCATION	STORM SEWER REMOVAL 12"	STORM SEWER REMOVAL 15"	STORM SEWER REMOVAL 42"	REMOVING MANHOLES	REMOVING INLETS
	FOOT	FOOT	FOOT	EACH	EACH
STA. 209+02, 37' RT TO STA. 210+22, 31' RT			121		
STA. 209+83, 25' RT TO STA. 209+83, 31' RT	6				
STA. 0+41, 16' LT TO STA. 0+59, 16' LT (REED)	19				
STA. 0+41, 16' LT TO STA. 0+41, 15' RT (REED)	31				
STA. 0+58, 14' RT TO STA. 0+42, 15' RT (REED)		16			
STA. 0+42, 16' RT TO STA. 0+42, 26' RT (REED)		10			
STA. 209+83, 31' RT (5' DIA)				1	
STA. 0+41, 16' LT (REED)					1
STA. 0+41, 15' RT (REED)					1
TOTAL	56	26	121	1	2

PIPE CULVERT REMOVAL	
LOCATION	QUANTITY
	FOOT
STA. 208+71, 46' LT TO STA. 208+95, 46' LT	24
TOTAL	24

COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24	
LOCATION	QUANTITY
	FOOT
STA. 205+00 TO STA. 207+09.82 LT	210
STA. 208+92.17 TO STA. 210+79.92 LT	208
STA. 211+05.93 TO STA. 213+80 LT	249
STA. 205+00 TO STA. 207+62.82 RT	263
STA. 209+50.17 TO STA. 213+37 RT	387
STA. 214+20 TO STA. 214+45 LT	25
TOTAL	1342

SIDEWALK REMOVAL	
LOCATION	QUANTITY
	SQ FT
STA. 205+00 TO STA. 207+75 LT	1093
STA. 208+45 TO STA. 209+67 LT	520
STA. 209+88 TO STA. 210+74 LT	340
STA. 211+10 TO STA. 213+12 LT	791
STA. 213+58 TO STA. 213+80 LT	81
STA. 214+20 TO STA. 214+45 LT (ST II TEMP ACCESS)	97
STA. 205+75 TO STA. 208+30 RT	977
STA. 208+97 TO STA. 211+88 RT	1153
STA. 212+30 TO STA. 212+49 RT	63
STA. 212+87 TO STA. 213+59 RT	275
TOTAL	5390

MANHOLES TO BE ADJUSTED	
LOCATION	QUANTITY
	FOOT
STA. 205+84, 20' LT.	1
STA. 213+31, 21' LT.	1
TOTAL	2

DETECTOR LOOP					
LOCATION	DETECTOR LOOP, TYPE 1	HANDHOLE	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	UNDERGROUND CONDUIT, PVC 2" DIA.	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
	FOOT	EACH	FOOT	FOOT	FOOT
STA. 204+98 TO STA. 205+85 LT				87	87
STA. 205+85 TO STA. 207+24 LT			140		140
STA. 205+85 LT	72	1			
STA. 207+24 LT	37	1			
STA. 205+05 RT	147				
STA. 207+35.5 LT	52				
TOTAL	308	2	140	87	227

DETECTABLE WARNINGS	
LOCATION	QUANTITY
	SQ FT
STA. 210+65 LT	14
STA. 211+18 LT	14
STA. 213+54 RT	10
TOTAL	38

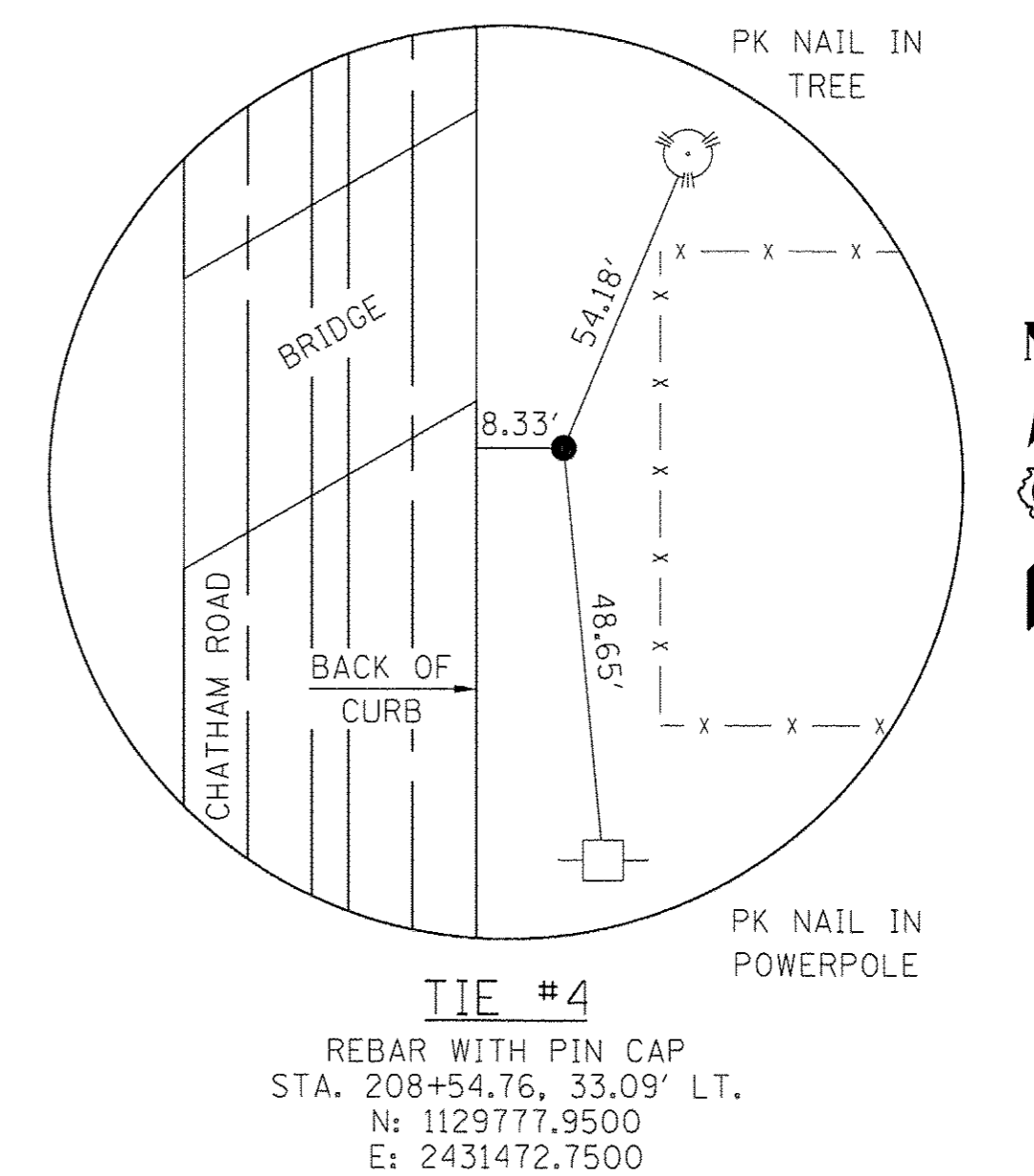
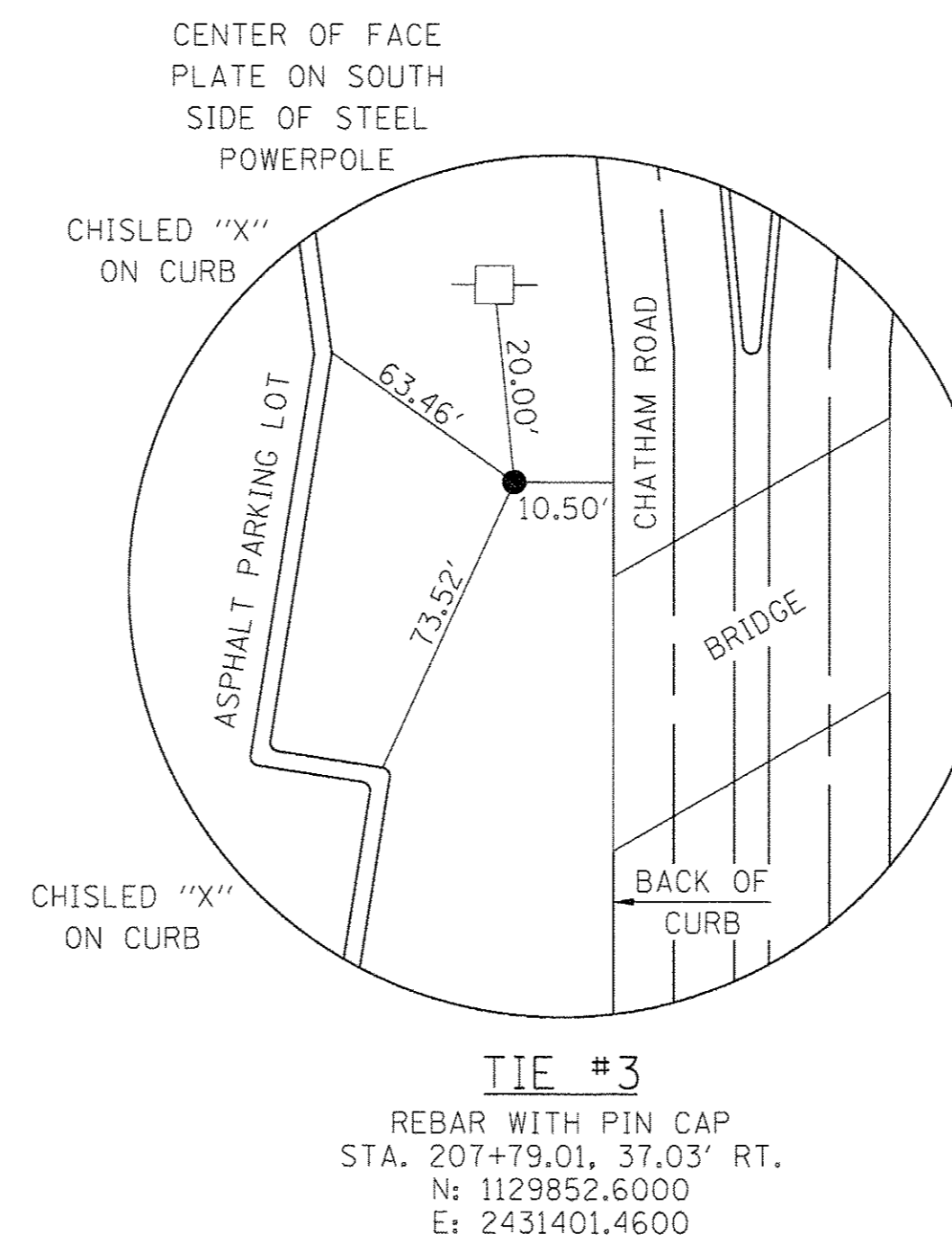
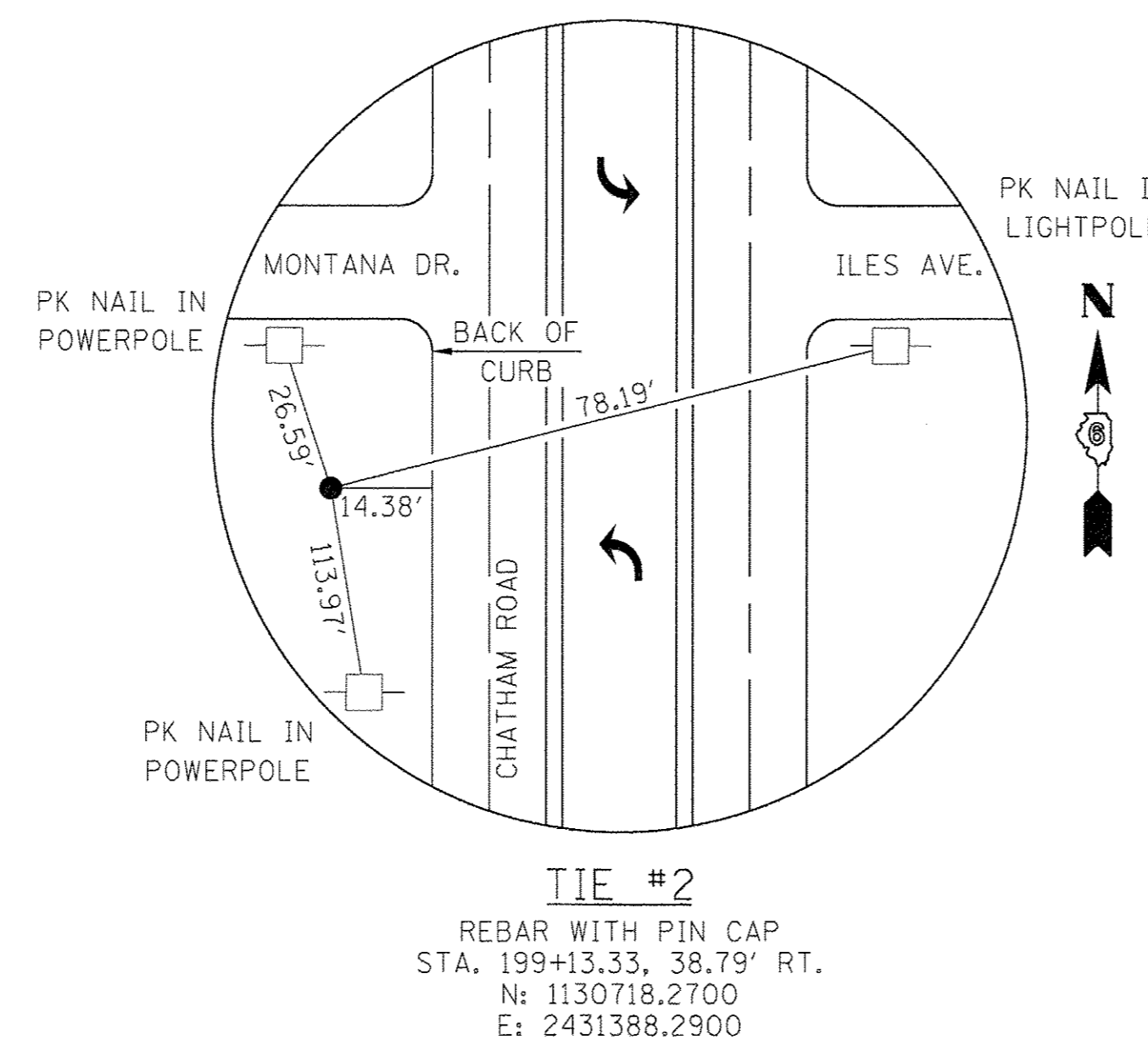
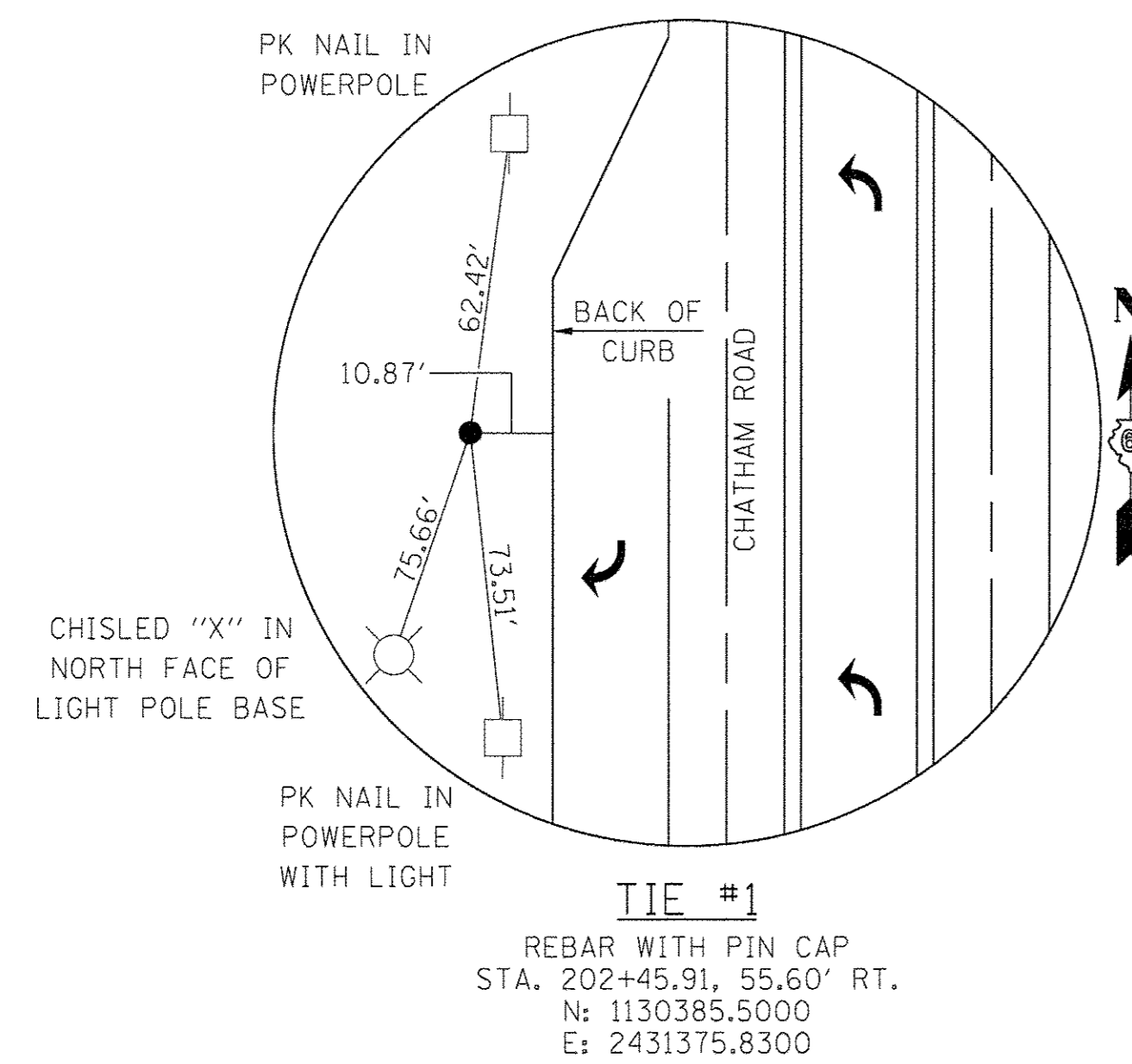
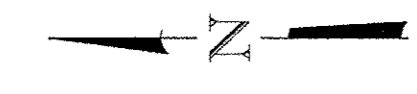
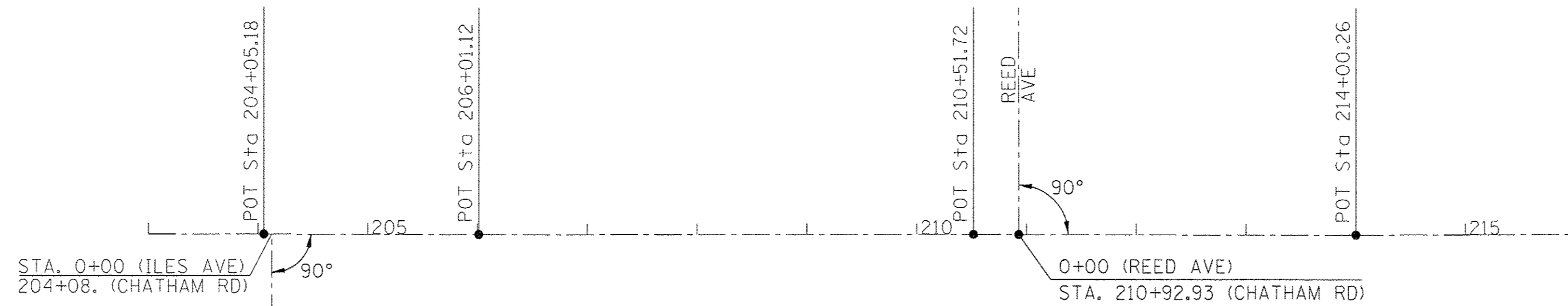
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	DATE -	REVISED -



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No. 184-001907

QUANTITY SCHEDULES		
SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA. TO STA.

F.A.U. RTE. 8006	SECTION 10-00470-00-BR	COUNTY SANGAMON	TOTAL SHEETS 90	SHEET NO. 15
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 93600	

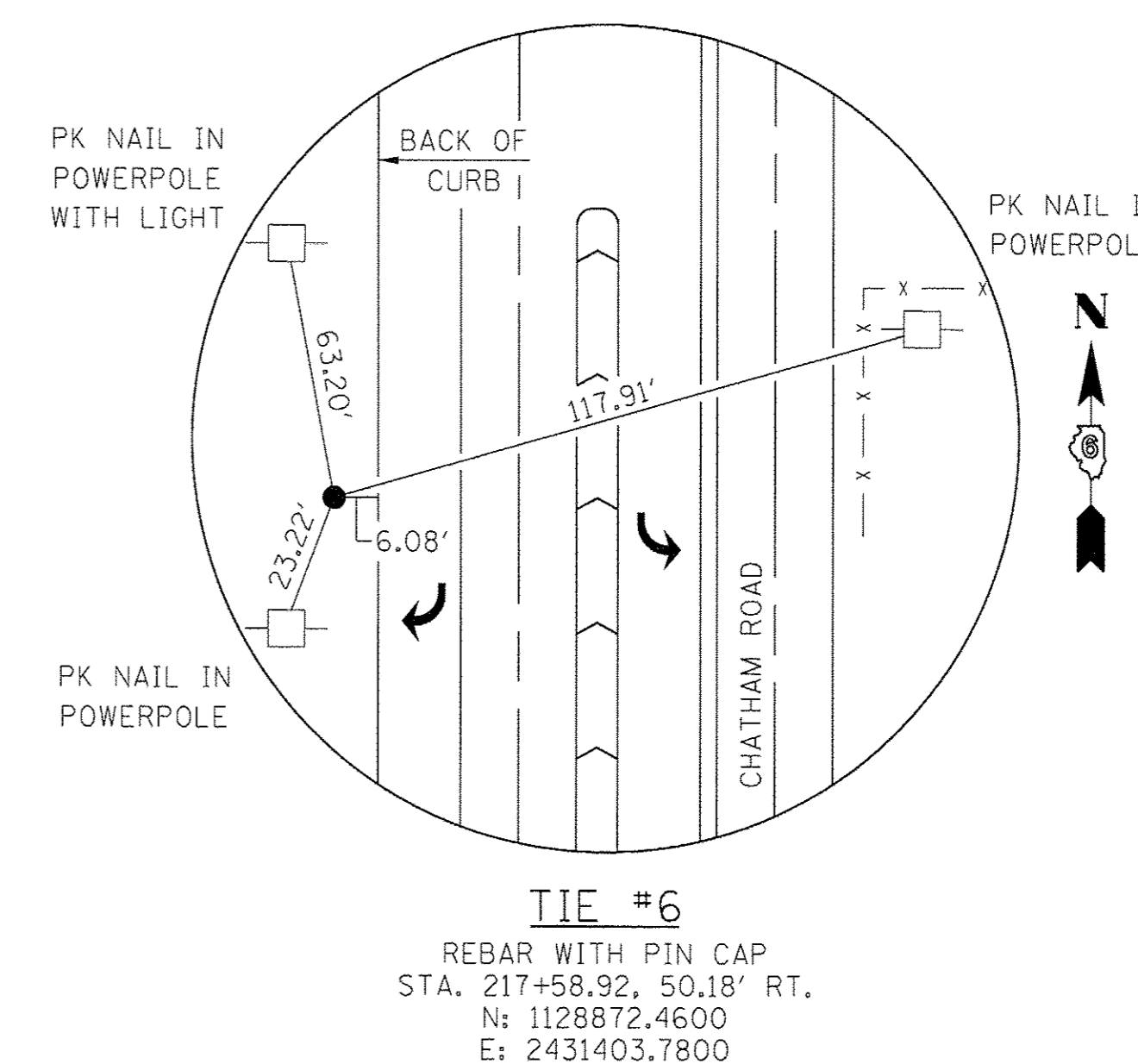
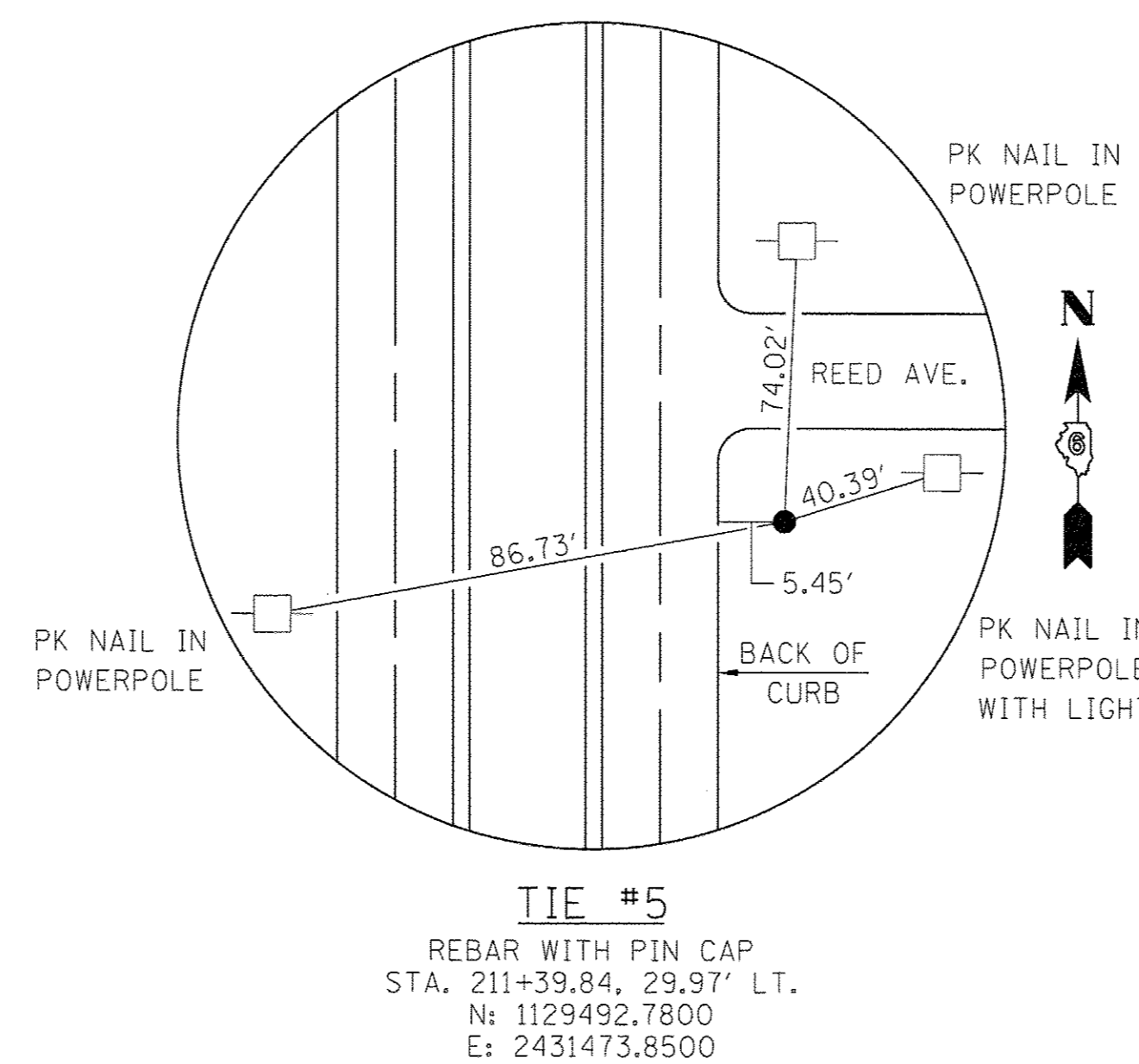


**COORDINATES**

POT STA. 204+05.18	N: 2431433.5100 E: 1130226.9700
POT STA. 206+01.12	N: 2431435.7100 E: 1130031.0500
POT STA. 210+51.72	N: 2431442.5700 E: 1129580.5000
POT STA. 210+51.72	N: 2431442.5700 E: 1129580.5000

**BENCHMARKS**

BM	STA	OFFSET	ELEV	DESC
A	210+56.06	38.54' LT	577.55	"M" IN MUELLER ON FIRE HYDRANT AT THE N.E. CORNER OF CHATHAM ROAD AND REED AVENUE
B	204+51.46	70.15' RT	576.90	NORTH CAP BOLT ON FIRE HYDRANT AT THE S.W. CORNER OF CHATHAM ROAD AND ILES AVENUE



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**ALIGNMENT, TIES & BENCHMARKS**

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

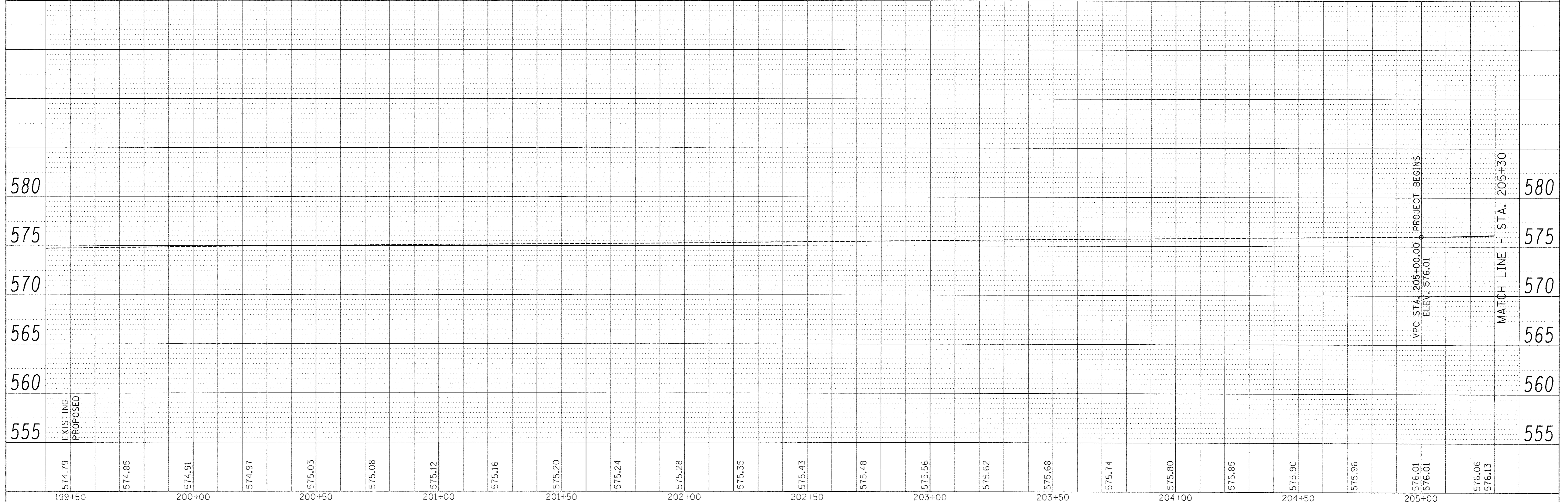
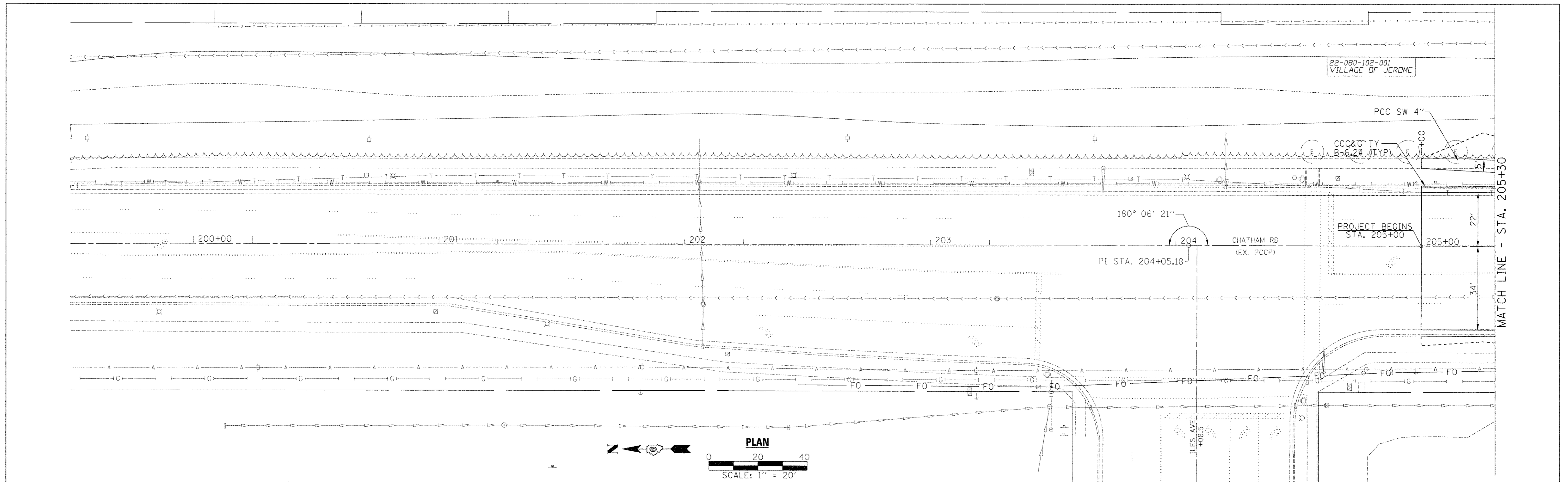
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8006	10-00470-00-BR	SANGAMON	90	16
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

CONTRACT NO 9 3.6.0



PLAN SURVEYED BY DATE  
 PLOTTED BY  
 CHECKED BY  
 NOTE BOOK NO. OF WAY CHECKED  
 NO. PAID FILE NAME

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



199+50	574.79	EXISTING	574.85	200+00	574.91	200+50	574.97	201+00	575.03	201+50	575.08	202+00	575.12	202+50	575.16	203+00	575.20	203+50	575.24	204+00	575.28	204+50	575.35	205+00	575.43	575.48	575.56	575.62	575.68	575.74	575.80	575.85	575.90	575.96	576.01	576.01	576.06	576.13	205+30
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PLOT SCALE = *SCALE*	CHECKED -	REVISED -
PLOT DATE = *DATE*	DRAWN -	REVISED -
	CHECKED -	REVISED -

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 No. 184-001907

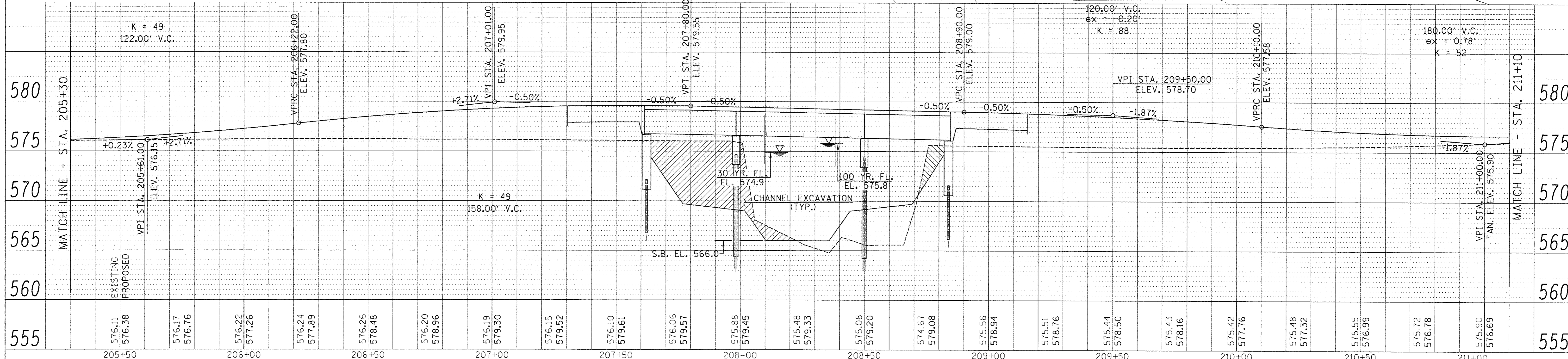
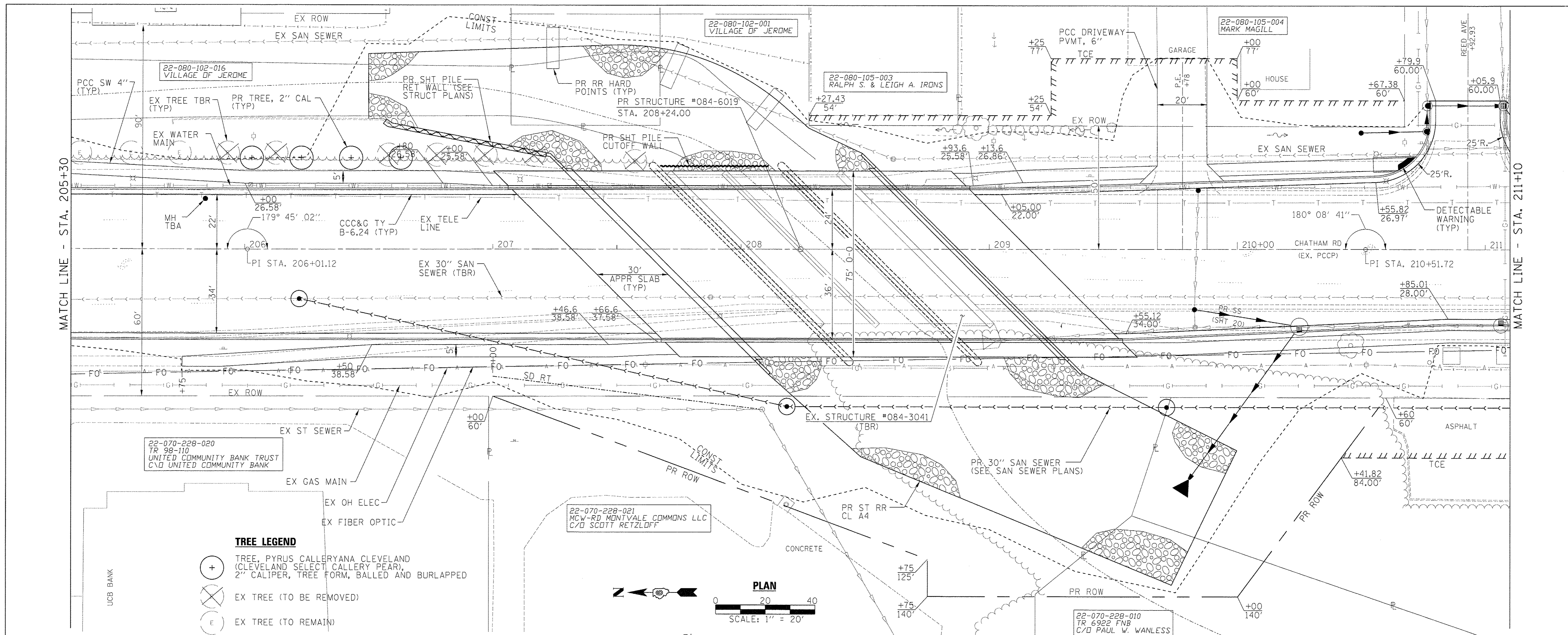
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 SCALE: 1" = 20' SHEET NO. 1 OF 3 SHEETS STA. 199+50 TO STA. 205+30

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00470-00-BR	SANGAMON	90	17
CONTRACT NO. 93600				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	RT. OF WAY CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NO. _____	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	RT. OF WAY CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NO. _____	
	FILE NAME	



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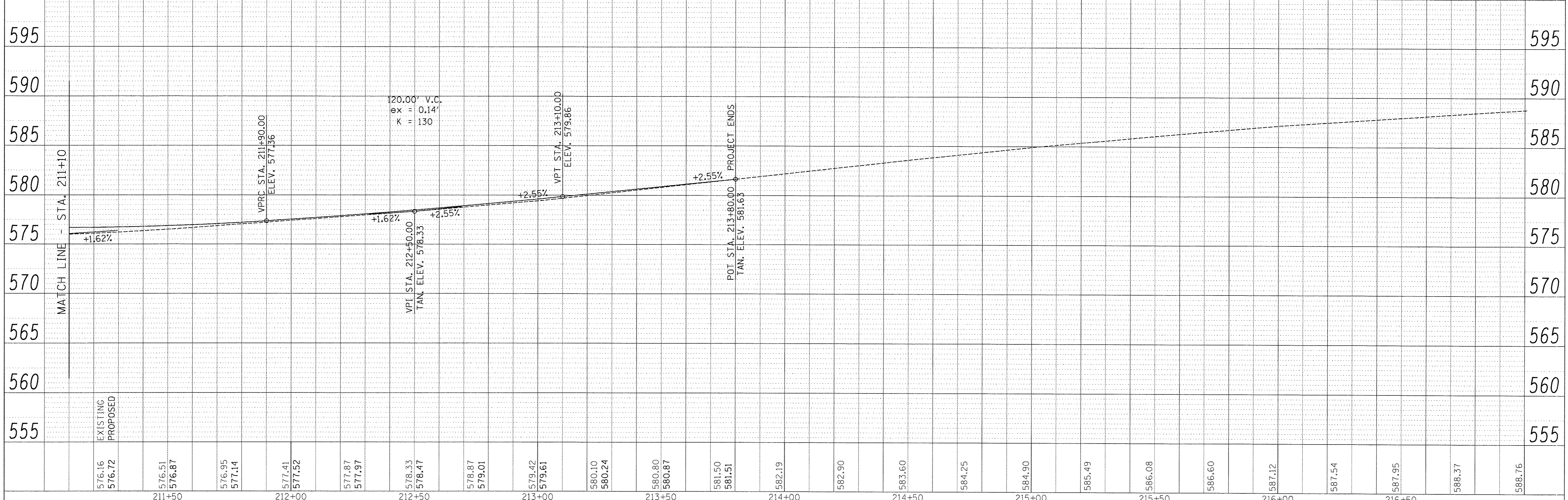
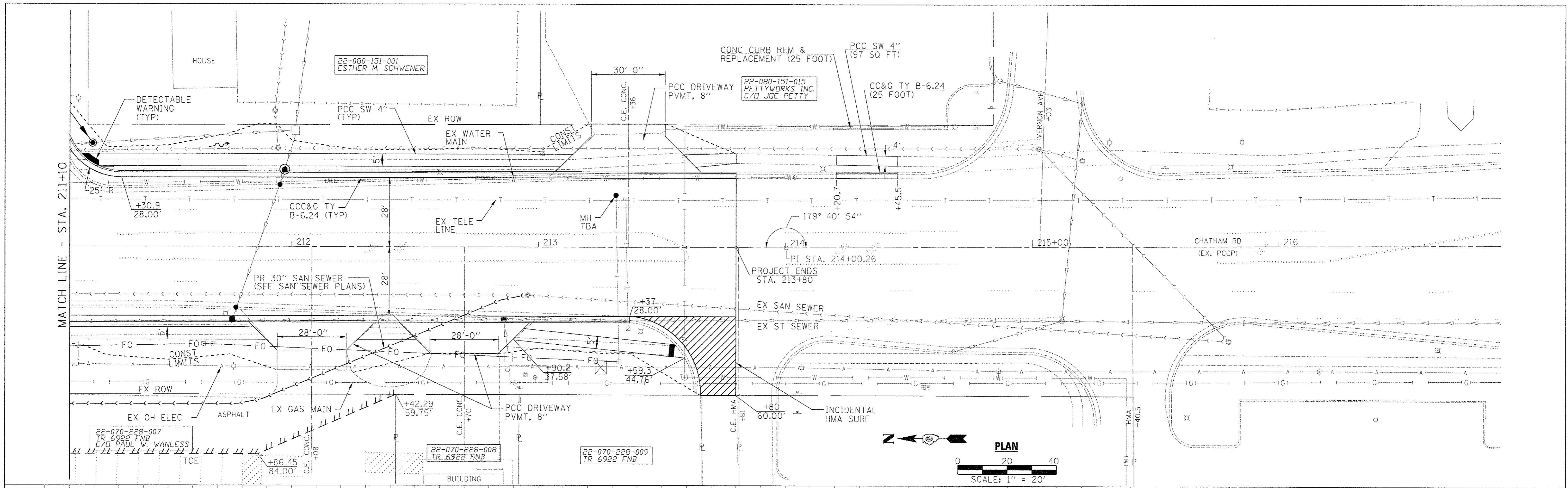
**Allen Henderson & Associates, Inc.**  
Civil and Structural Engineers Springfield, IL.  
62703 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

<b>PLAN &amp; PROFILE</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: 1" = 20'	SHEET NO. 2 OF 3 SHEETS	10-00470-00-BR	SANGAMON	90	18	
STA. 205+30 TO STA. 211+10		CONTRACT NO. 93600				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT						



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

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NO. OF WAY CHECKED		
	NO. OF STRUCTURE NOTATIONS CHECKED		



576.16	576.72	576.51	576.87	576.95	577.14	577.41	577.52	577.87	577.97	578.33	578.47	578.87	579.01	579.42	579.61	580.10	580.24	580.80	580.87	581.50	581.51	582.19	582.90	583.60	584.25	584.90	585.49	586.08	586.60	587.12	587.54	587.95	588.37	588.76									
EXISTING		PROPOSED																																									
211+50				212+00				212+50				213+00				213+50				214+00				214+50				215+00				215+50				216+00				216+50			

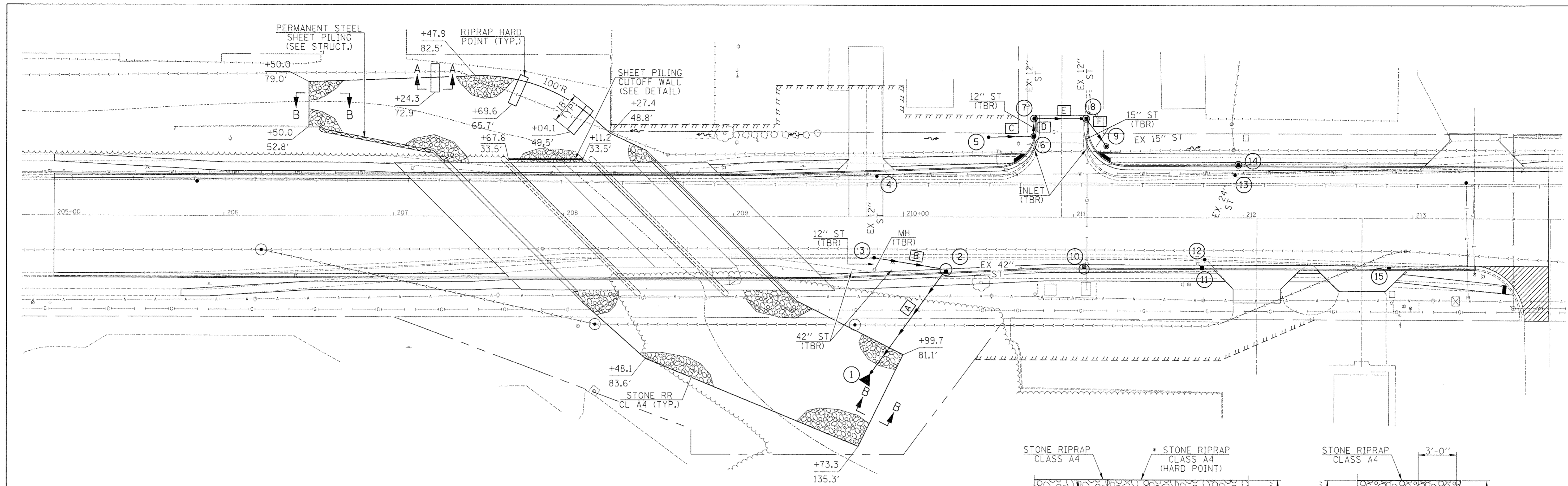
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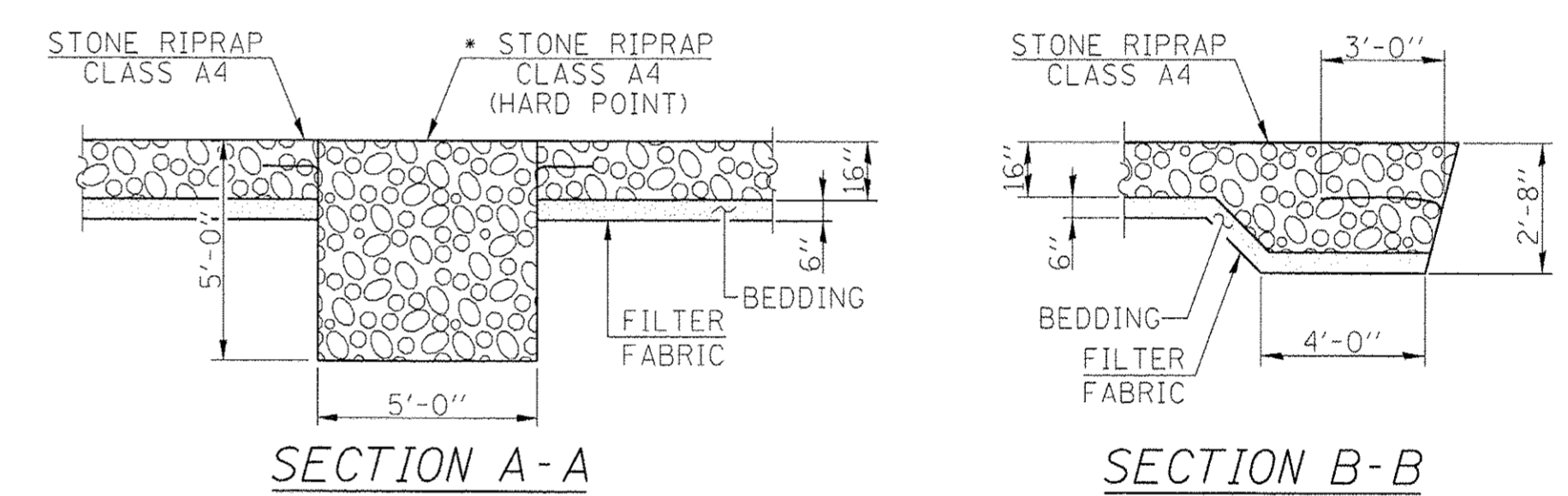
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CONTRACT NO. 93600				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



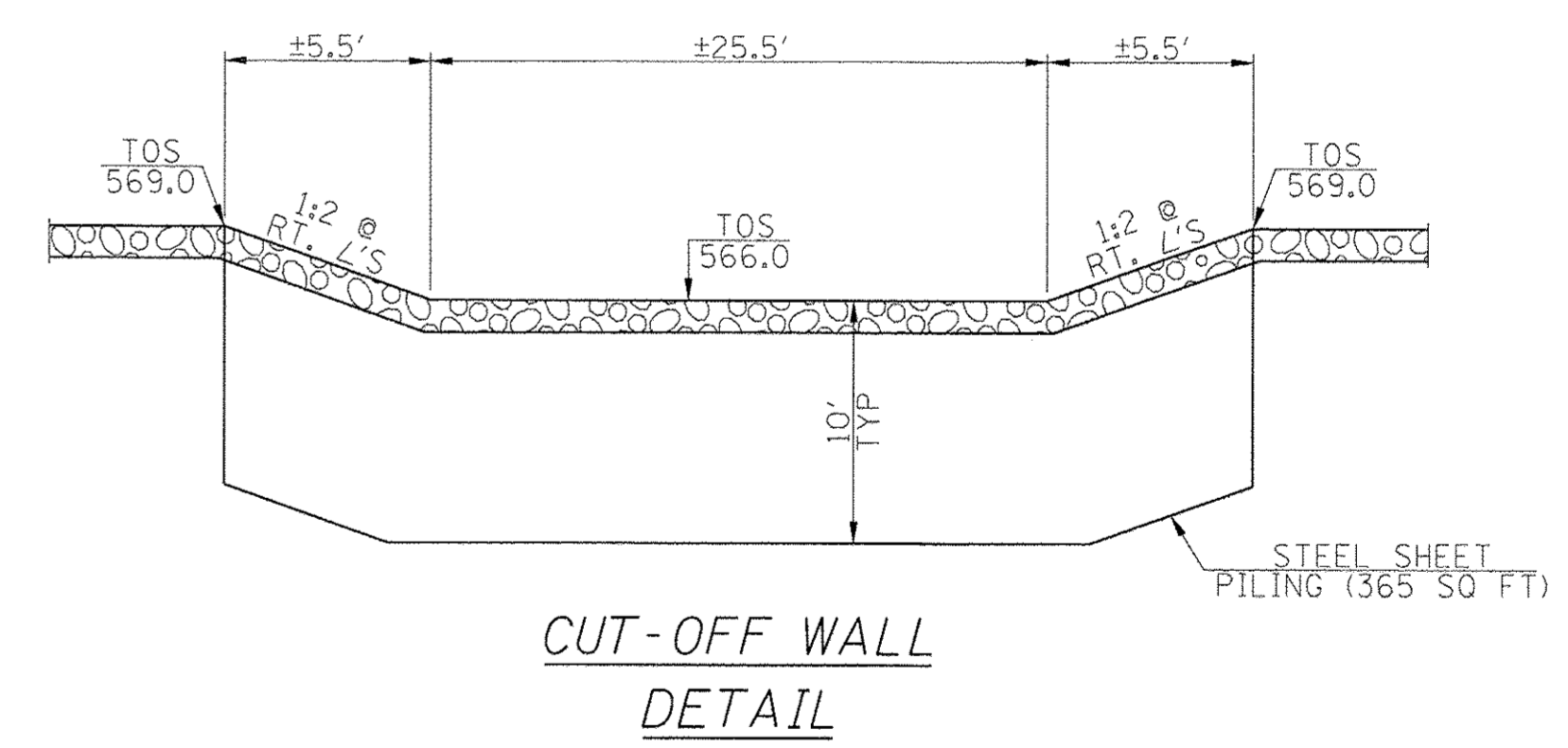


STONE RIPRAP, CLASS A4 = 2130 TON
FILTER FABRIC = 3030 SQ.YD.
PERMANENT STEEL SHEET PILING = 365 SQ. FT.



• INCLUDED IN THE COST OF STONE RIPRAP, CLASS A4

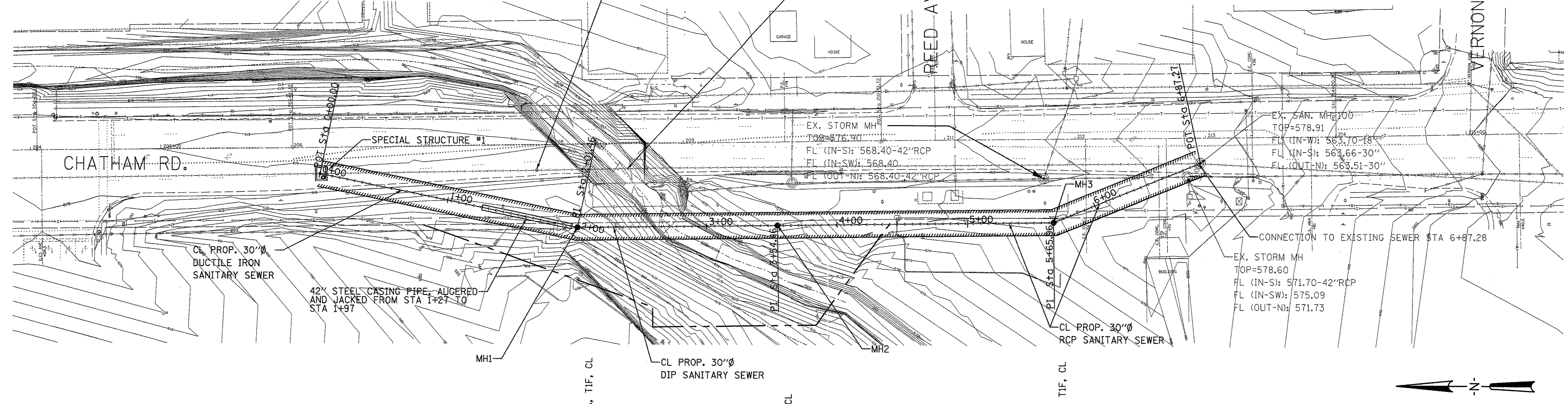
DRAINAGE STRUCTURE SCHEDULE								
	TYPE	CASTING	STATION	OFFSET	RIM	INV	INV	INV
①	PRCFES 42"		209+80.4	92.6' RT		567.00		
②	MH-A, 7' DIA	TY 3	210+24.9	30.82' RT	576.86 (EOP)	(NE) 570.8	(NW) 567.5	(S) ± 567.7 EX
③	EX INLET TO BE RECONSTRUCTED	TY 1 CL LID	209+82.7	24.3' RT	577.68	(E) ± 571.4 EX	(S) 571.4	
④	EX INLET TO BE ADJUSTED	TY 1 CL LID	209+84.3	23.7' LT	577.67			
⑤	INLET-A	TY 8	210+50	46.9' LT	575.5	(S) 573.50		
⑥	INLET-B	TY 15	0+46.94 (REED) (EOP)	13.58' LT (EOP)	575.87 (EOP)	(N) 572.65	(E) 572.35	
⑦	MH-A, 4' DIA	TY 15	0+58 (REED) (EOP)	13.0' LT (EOP)	575.62 (EOP)	(S) 572.0	(E) ± 572.3 EX	(W) 572.3
⑧	MH-A, 4' DIA	TY 3	0+58 (REED) (EOP)	13.0' RT (EOP)	575.62 (EOP)	(N) 571.9	(E) ± 571.9 EX	(SW) 571.6
⑨	INLET-B	TY 1 CL LID	211+19.2	41.85' LT	576.4	(NE) 571.5	(S) ± 571.3 EX	
⑩	MH-A, 6' DIA	TY 3	211+06.4 (EOP)	28.0' RT (EOP)	576.26 (EOP)	± 568.1 EX		
⑪	EX MH TO BE ADJUSTED	TY 3	211+75.9 (EOP)	28.0' RT (EOP)	576.73 (EOP)			
⑫	EX INLET TO BE ADJUSTED	TY 1 CL LID	211+77.4	24.7' RT	576.8			
⑬	EX INLET TO BE ADJUSTED	TY 1 CL LID	211+95.2	25.0' LT	577.07			
⑭	MH-A, 4' DIA	TY 15	211+97.1 (EOP)	28.0' LT (EOP)	577.06 (EOP)	± 569.0 EX		
⑮	EX MH TO BE ADJUSTED	TY 23	212+86.0 (EOP)	28.0' RT (EOP)	578.85 (EOP)			



STORM SEWER SCHEDULE				
	TYPE	LENGTH	INV	INV
A	STORM SEWERS, CLASS A, TYPE 2 42"	74'	567.50	567.00
B	STORM SEWERS, CLASS A, TYPE 2 12"	40'	571.40	570.80
C	STORM SEWERS, CLASS A, TYPE 1 12"	24'	573.50	572.65
D	STORM SEWERS, CLASS A, TYPE 1 15"	7'	572.35	572.30
E	STORM SEWERS, CLASS A, TYPE 1 15"	27'	572.00	571.90
F	STORM SEWERS, CLASS A, TYPE 2 15"	17'	571.60	571.50

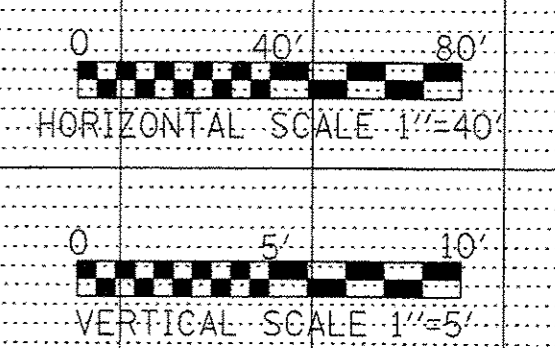
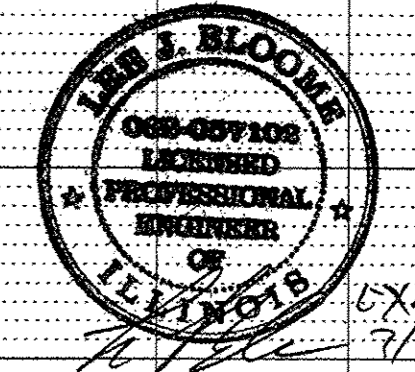
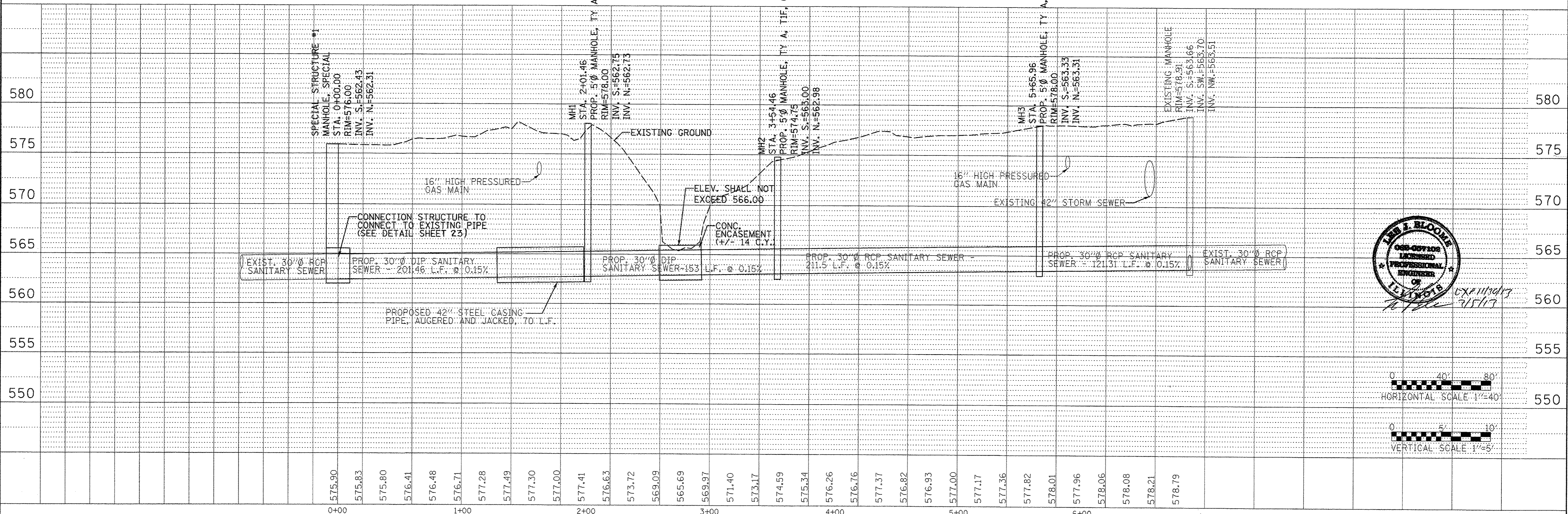


PROPOSED GRAVITY SEWER COORDINATES			
STATION	NORTHING	EASTING	GEOMETRY POINT
0+00.00	1130010.13	2431416.16	BEGIN
2+01.46	1129812.80	2431375.58	MANHOLE
3+54.46	1129659.81	2431377.77	MANHOLE
5+65.96	1129448.85	2431381.41	MANHOLE
6+87.27	1129335.41	2431427.05	END



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

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 NOTE BOOK NO. OF WAY CHECKED  
 NO. OF FILE NAME

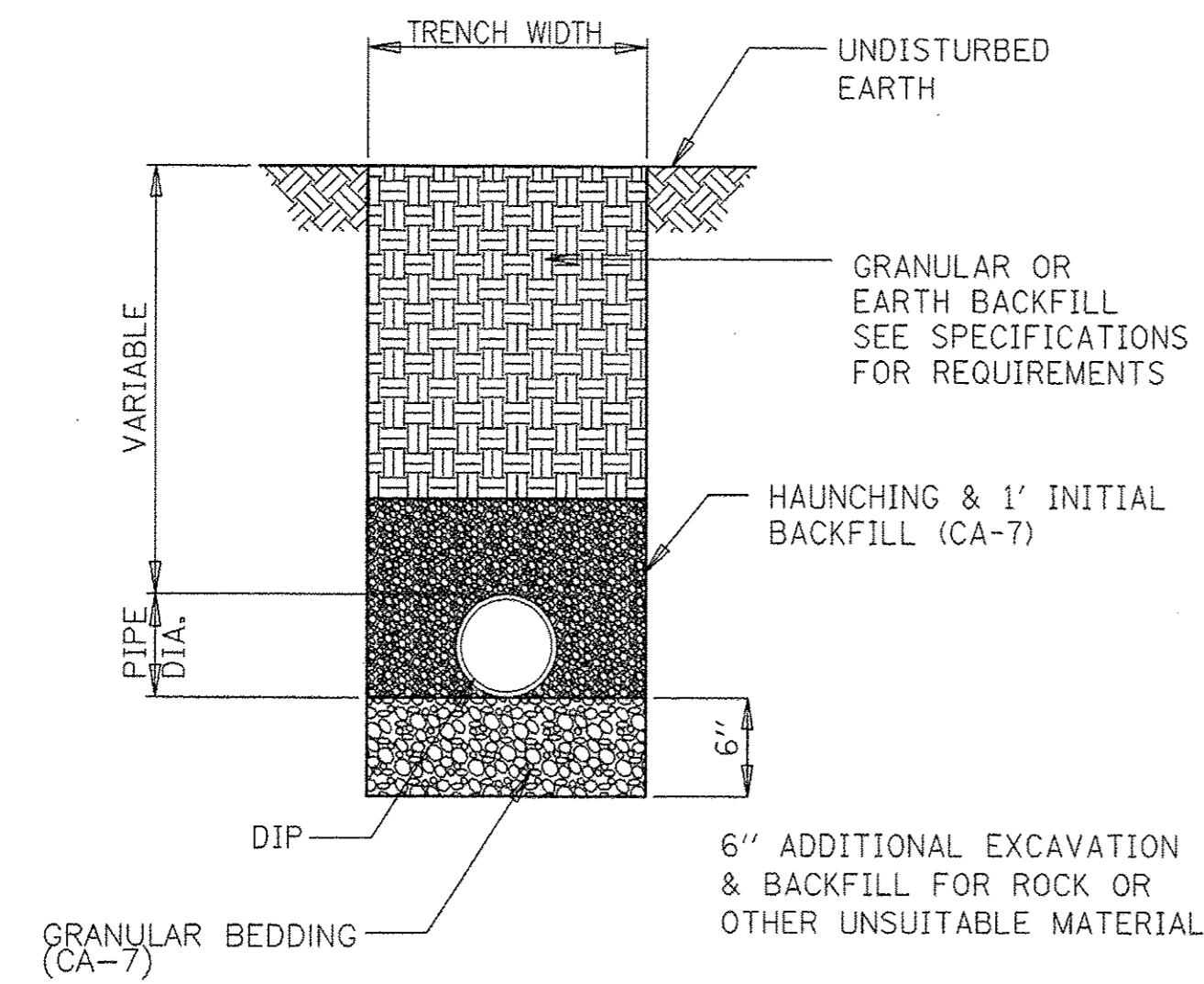


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PLOT SCALE = AS NOTED	CHECKED - LJB	REVISED - LJB 03/03/13	8006				10-00470-00-BR	SANGAMON	90	21	
PLOT DATE = 03/04/13	DATE - MAY, 2012	REVISED -	CONTRACT NO. 93600								

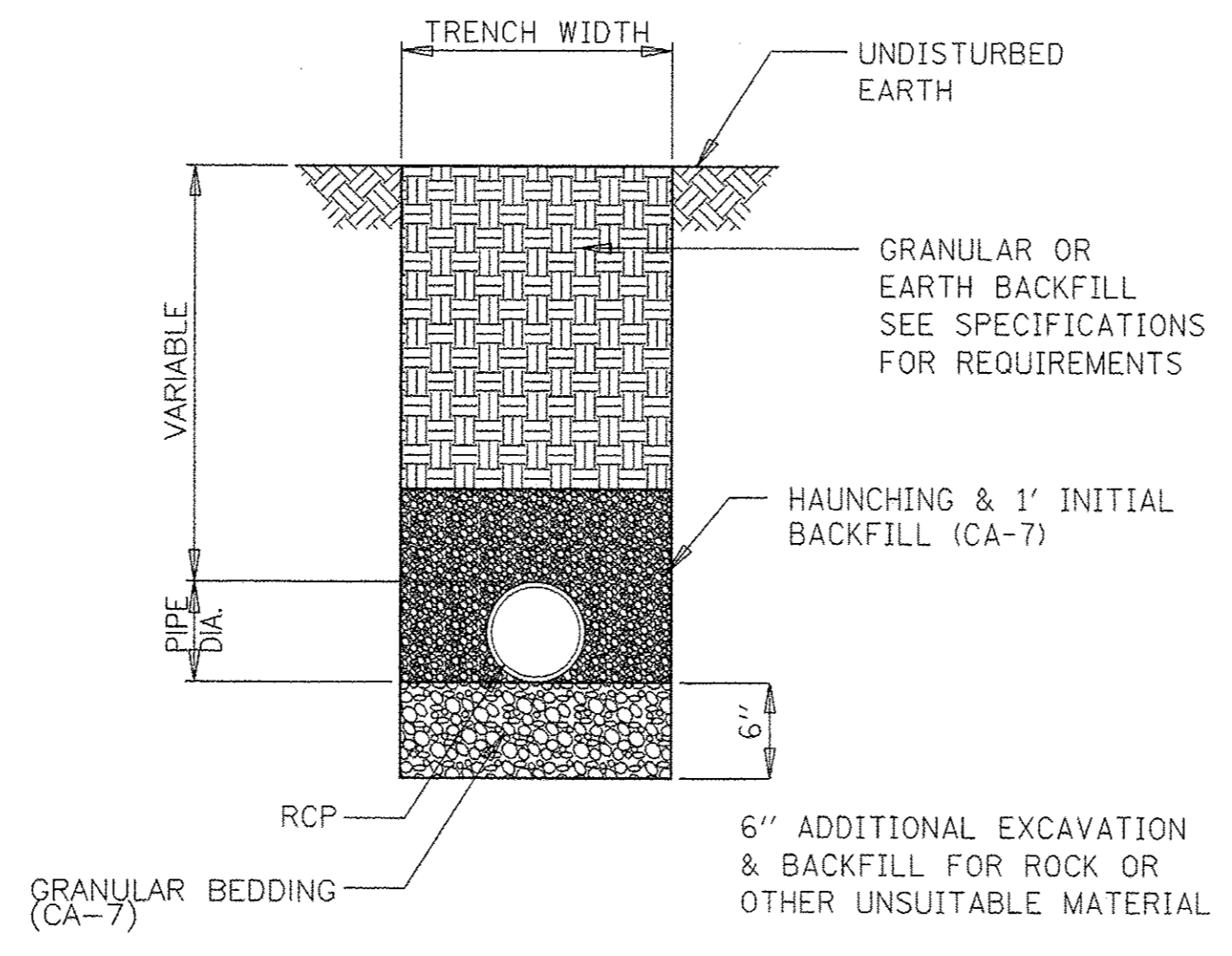
SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

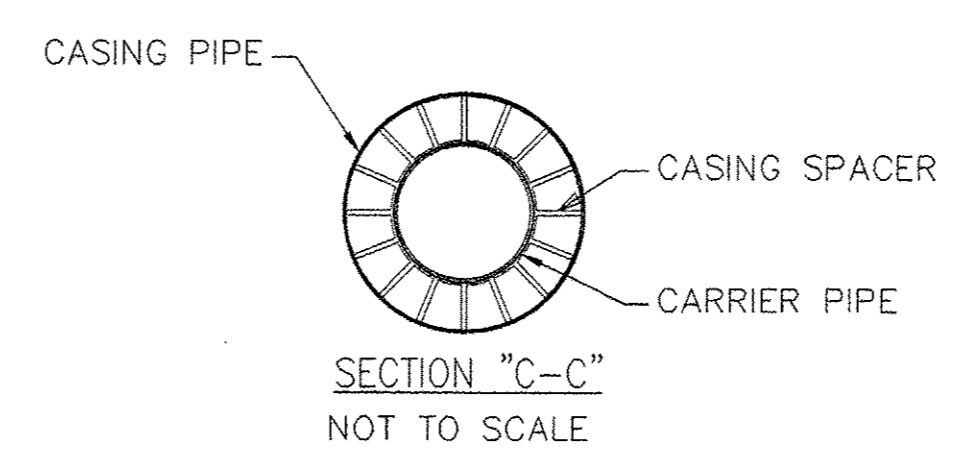
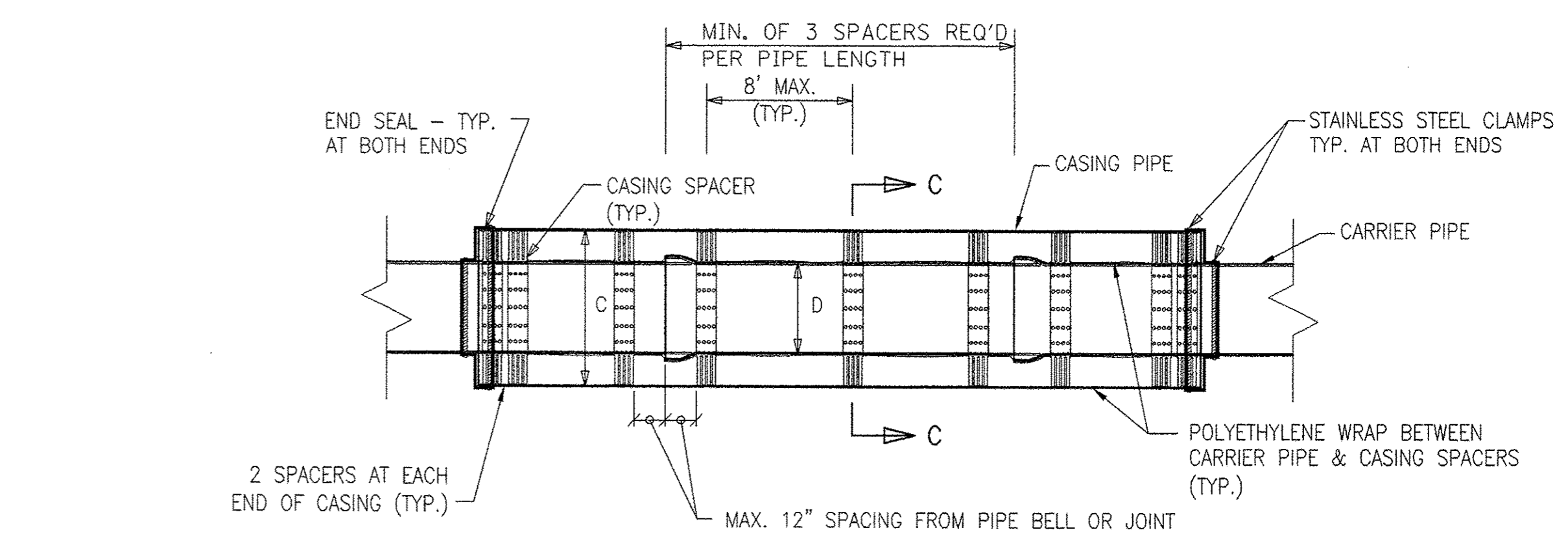




TYPICAL TRENCH SECTION FOR DUCTILE IRON PIPE  
NOT TO SCALE



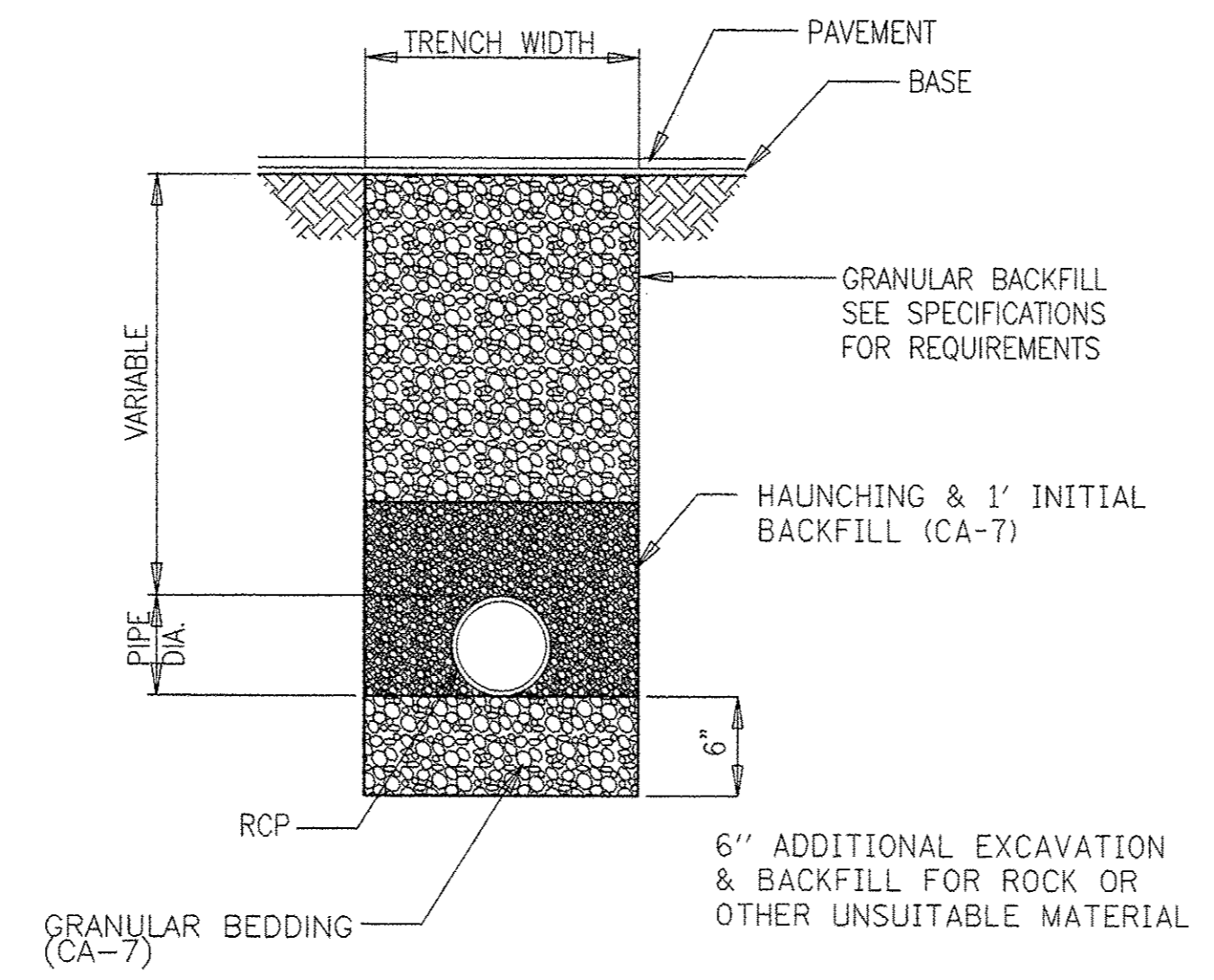
TYPICAL TRENCH SECTION FOR REINFORCED CONCRETE PIPE  
NOT TO SCALE



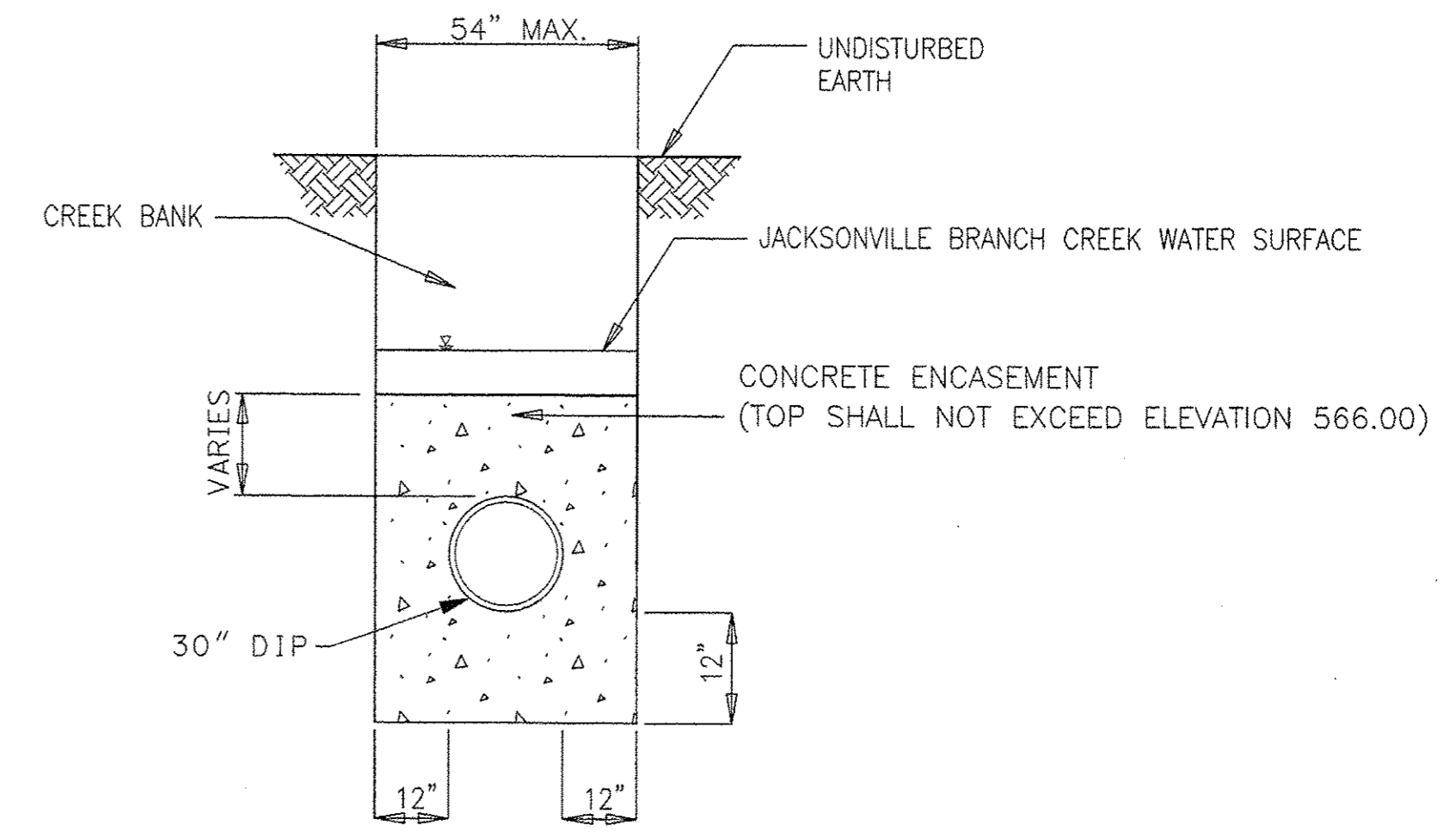
CASING INFORMATION	
CARRIER PIPE DIA. "D"	CASING PIPE DIA. "C"
30	42

ALL DIMENSIONS IN INCHES

ELEVATION OF CASING PIPE INSTALLATION  
SHOWING PLACEMENT OF SPACERS  
NOT TO SCALE

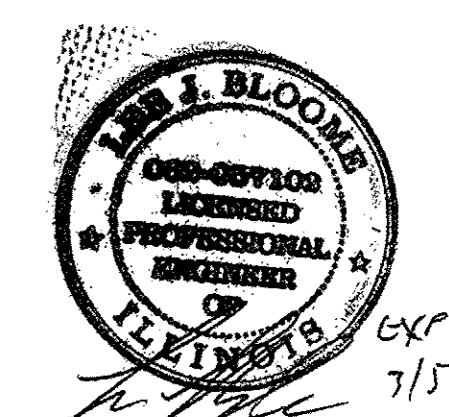


TYPICAL TRENCH SECTION FOR REINFORCED CONCRETE PIPE  
UNDER PAVEMENT  
NOT TO SCALE

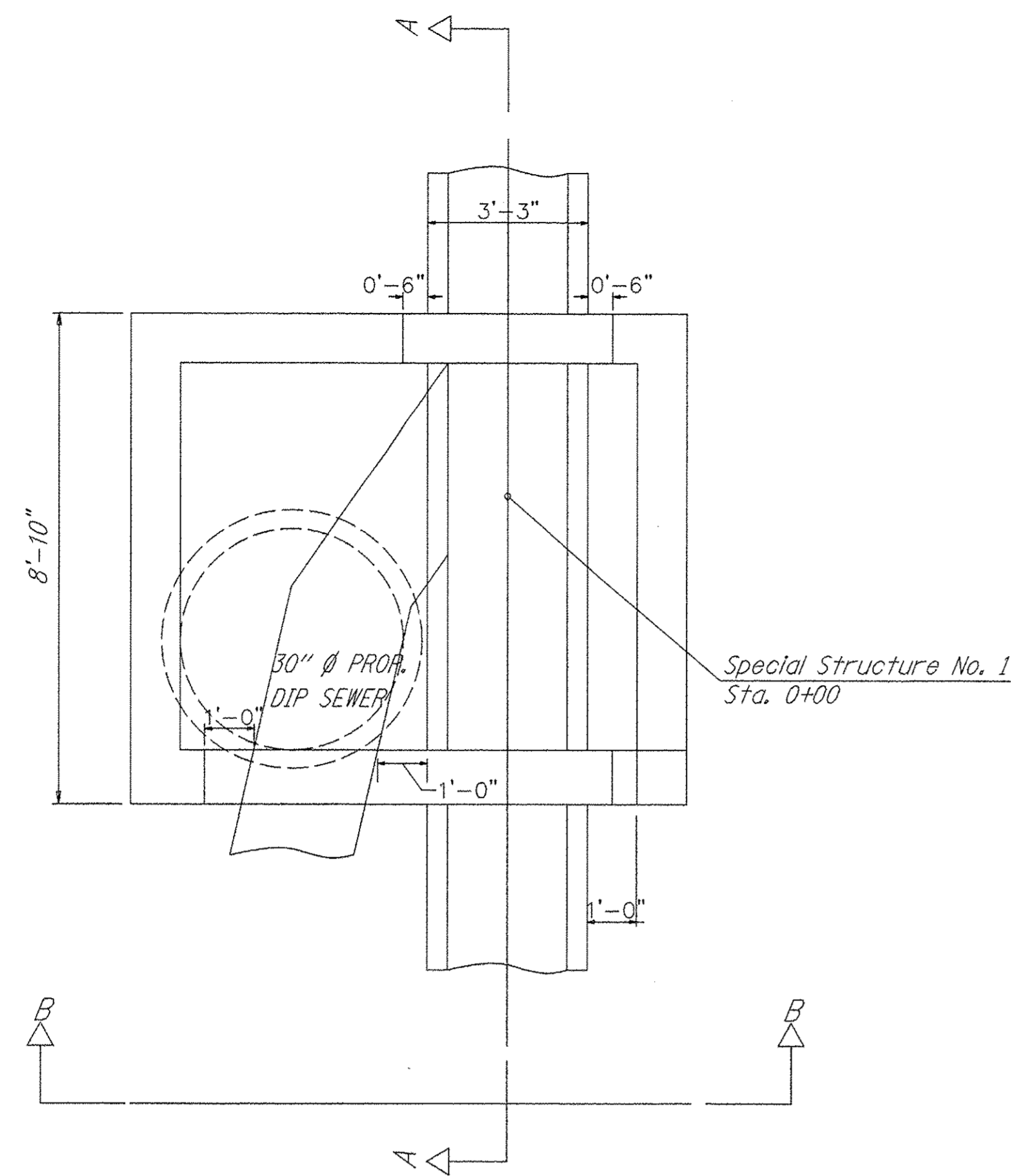


NOTES:  
1. SEE SPECIAL PROVISIONS FOR DEPARTMENT OF THE ARMY CORPS OF ENGINEERS 404 PERMIT REQUIREMENTS PERTAINING TO WORK WITHIN THE CREEK CHANNEL.

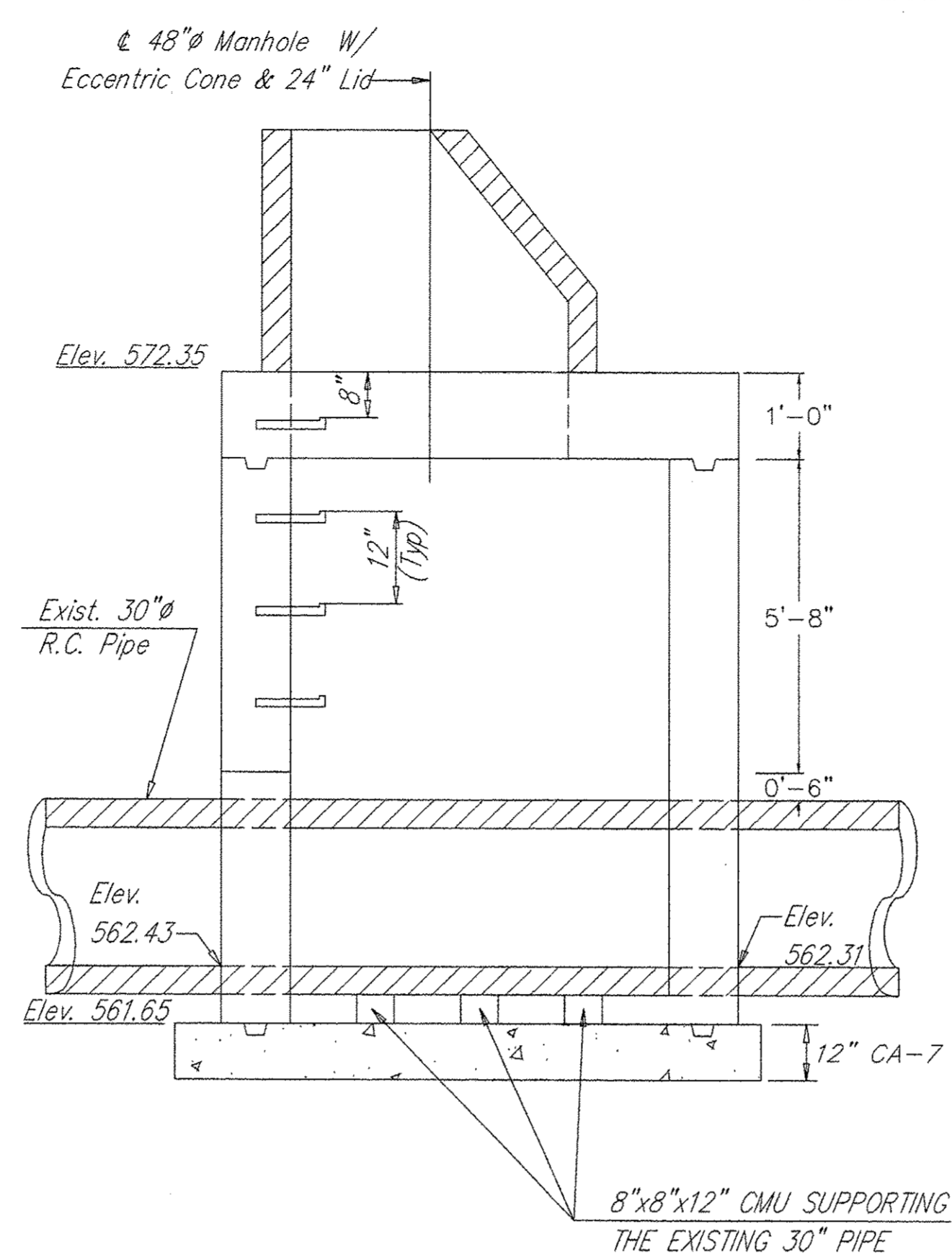
DIP CREEK CROSSING ENCASEMENT  
STA. 2+59 TO STA. 2+93



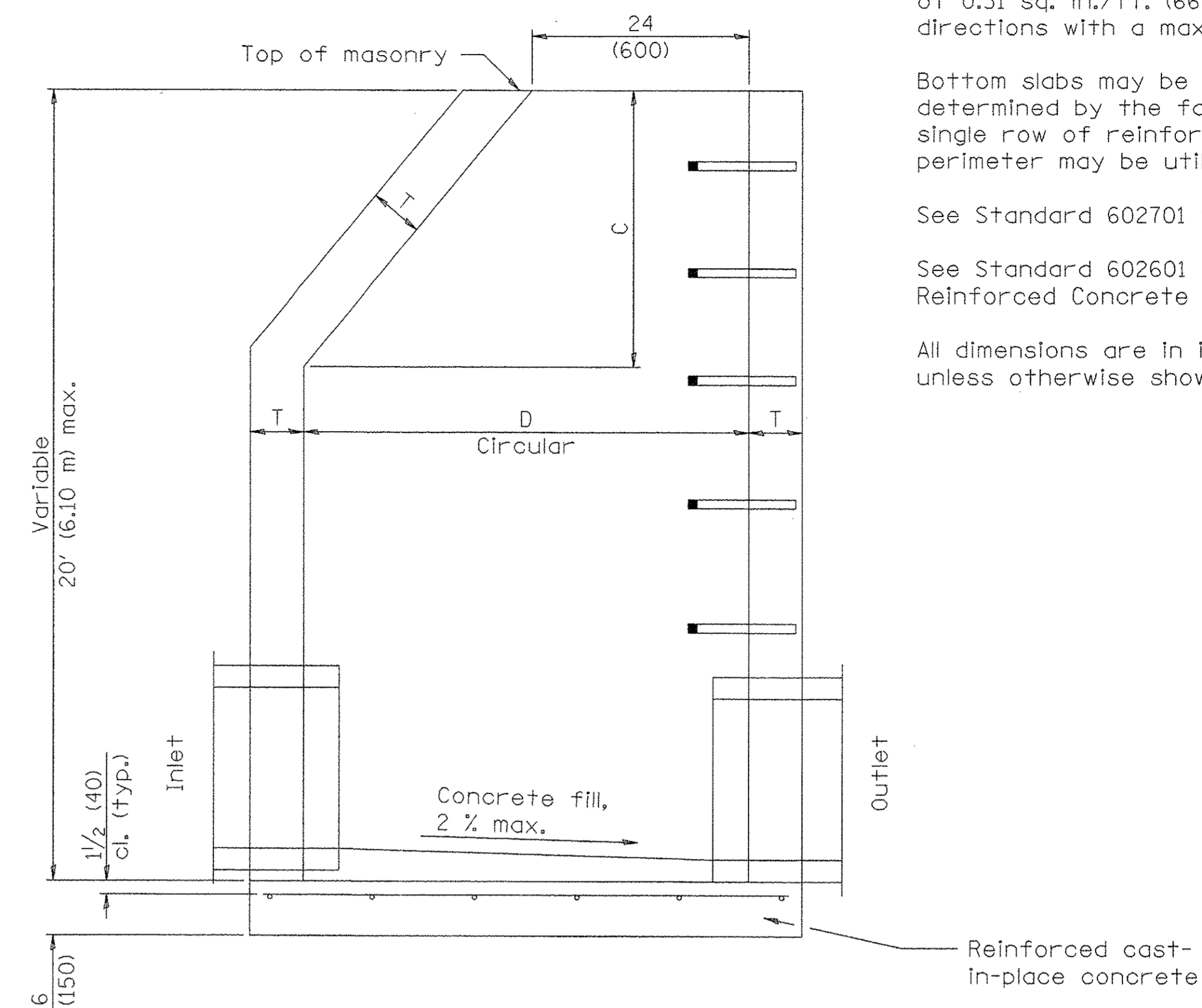
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PLOT SCALE = AS NOTED	CHECKED - LJB	DRAWN - RDM	REVISED -			SCALE:	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 93600	
PLOT DATE = 03/05/13	DATE - 06/01/12	REVISOR -	REVISED -			ILLINOIS FED. AID PROJECT					



TOP SLAB PLAN  
NOT TO SCALE



SECTION A-A  
NOT TO SCALE



ELEVATION - ECCENTRIC

**GENERAL NOTES**

Bottom slabs shall be reinforced with a minimum of 0.31 sq. in./ft. (660 sq. mm/m) in both directions with a maximum spacing of 12 (300).

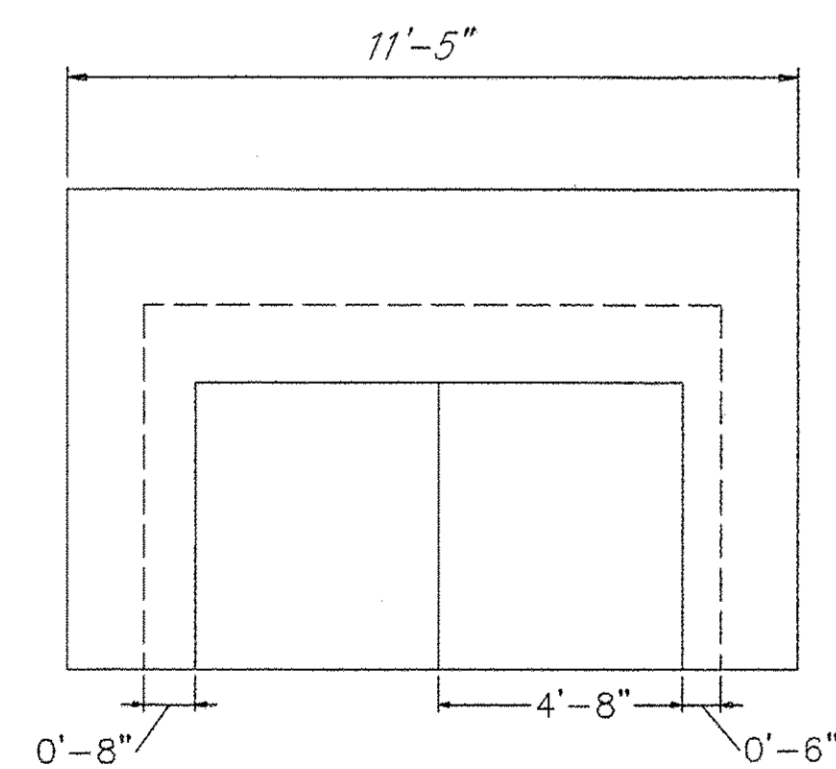
Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

See Standard 602701 for details of steps.

See Standard 602601 for optional Precast Reinforced Concrete Flat Slab Top.

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

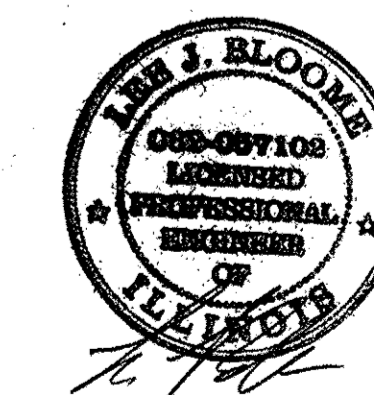
**SPECIAL STRUCTURE #1**



SECTION B-B  
NOT TO SCALE

ALTERNATE MATERIALS FOR WALLS	D	C*	T (min.)
Concrete Masonry Unit	4'-0" (1.2 m)	30 (750)	5 (125)
	5'-0" (1.5 m)	3'-9" (1.15 m)	5 (125)
Brick Masonry	4'-0" (1.2 m)	30 (750)	8 (200)
	5'-0" (1.5 m)	3'-9" (1.15 m)	8 (200)
Precast Reinforced Concrete Section	4'-0" (1.2 m)	30 (750)	4 (100)
	5'-0" (1.5 m)	3'-9" (1.15 m)	5 (125)
Cast-in-place Concrete	4'-0" (1.2 m)	30 (750)	6 (150)
	5'-0" (1.5 m)	3'-9" (1.15 m)	6 (150)

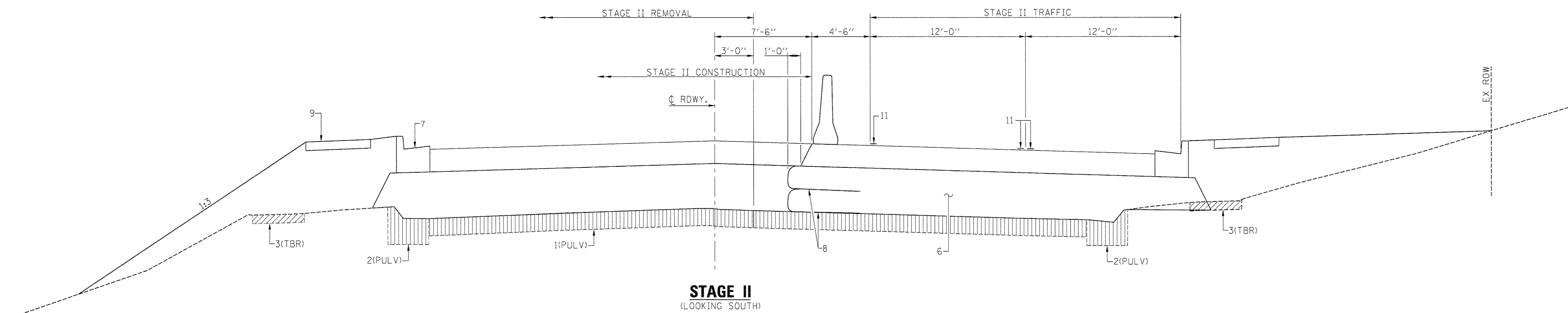
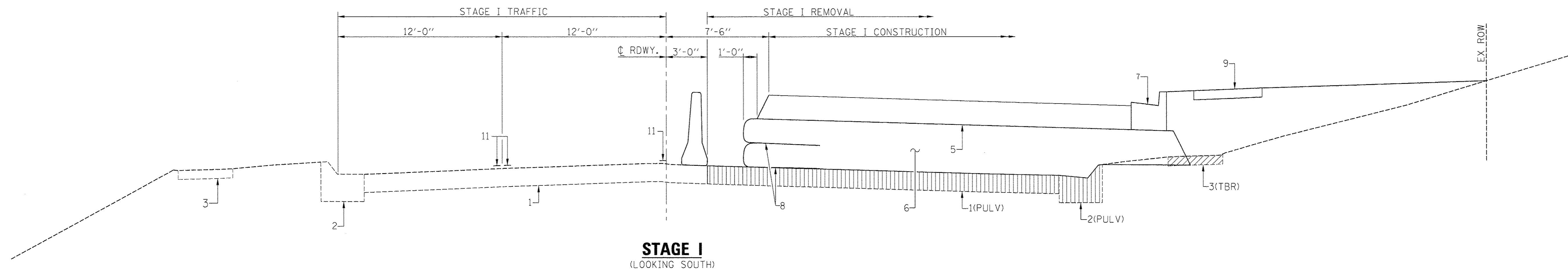
\* For precast reinforced concrete sections, dimension "C" may vary from the dimension given to plus 6 (150).



11/20/13  
3/5/13

FILE NAME = C-06-DETAILS SHEET 2	USER NAME = LJB	DESIGNED - RDM	REVISED - LJB 03/05/13	CITY OF SPRINGFIELD	CHATHAM ROAD SEWER RELOCATION DETAILS SHEET 2	F.A.U. RTE. 8006	SECTION 10-00470-00-BR	COUNTY SANGAMON	TOTAL SHEETS 90	SHEET NO. 23		
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PLOT DATE = 03/05/13	DATE - 06/01/12	REVISED	REVISED			ILLINOIS FED. AID PROJECT						





**PAVEMENT LEGEND**

1. EX PCC PAVEMENT
2. EX CONC C&G
3. EX CONC SIDEWALK
4. PR HMA SURFACE COURSE (1 1/2")
5. PR HMA BASE COURSE (10 1/2")
6. PR SUBBASE GRANULAR MATERIAL, TYPE A (12" MIN.)
7. PR COMB CONC C&G (B-6.24)
8. PR GEOTEXTILE RETAINING WALL
9. PR CONC SIDEWALK (4")
10. PR PVMT MARKING
11. PR TEMP PVMT MARKING

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
#FILEL#		DRAWN -	REVISED -
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -
	PLOT DATE = #DATE#	DATE -	REVISED -



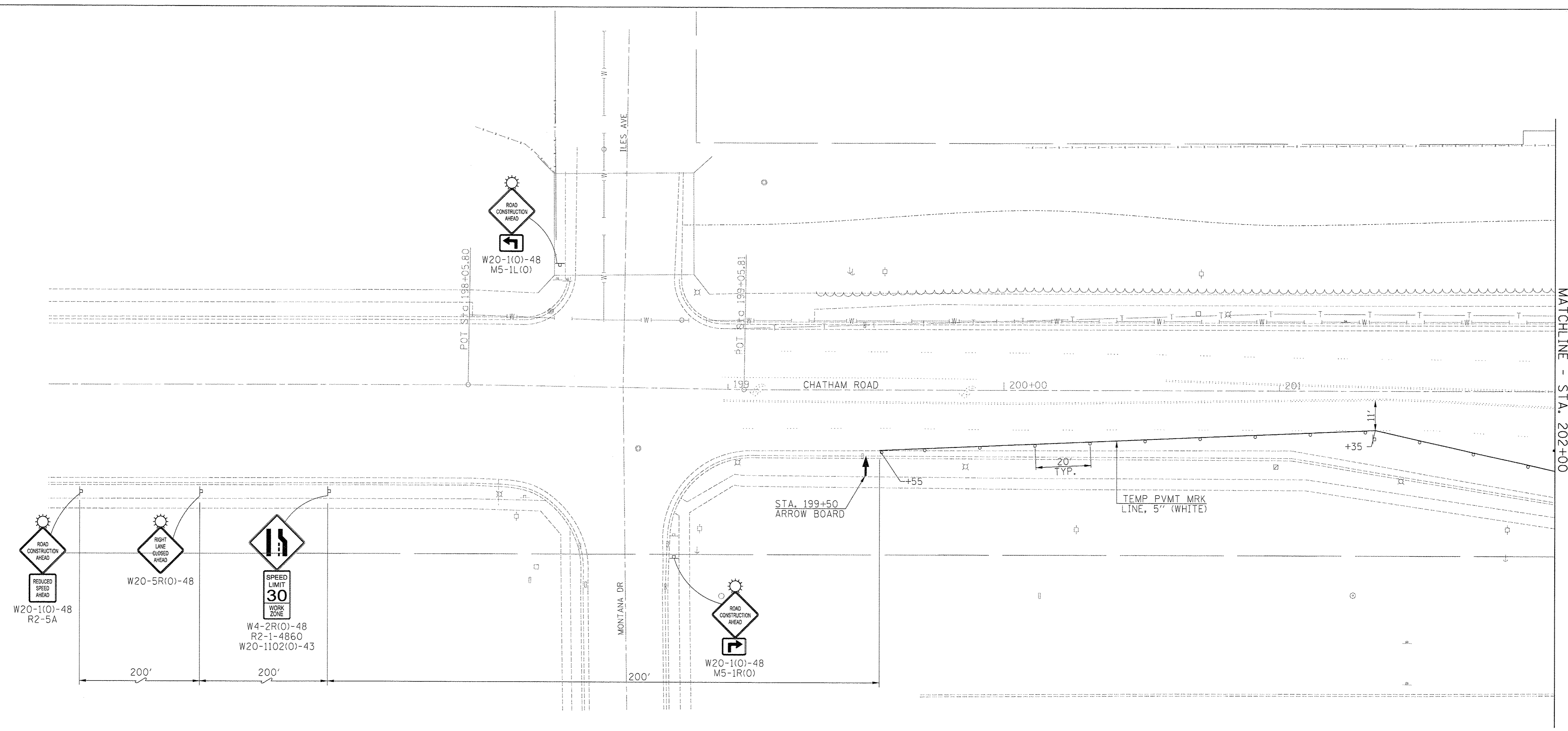
**Allen Henderson & Associates, Inc.**  
Civil and Structural Engineers Springfield, IL.  
62703 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

**STAGE CONSTRUCTION DETAILS**

SCALE: VARIES SHEET NO. 1 OF 12 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	24
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

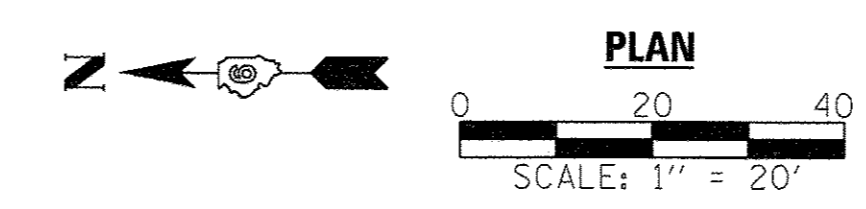
CONTRACT NO. 93600



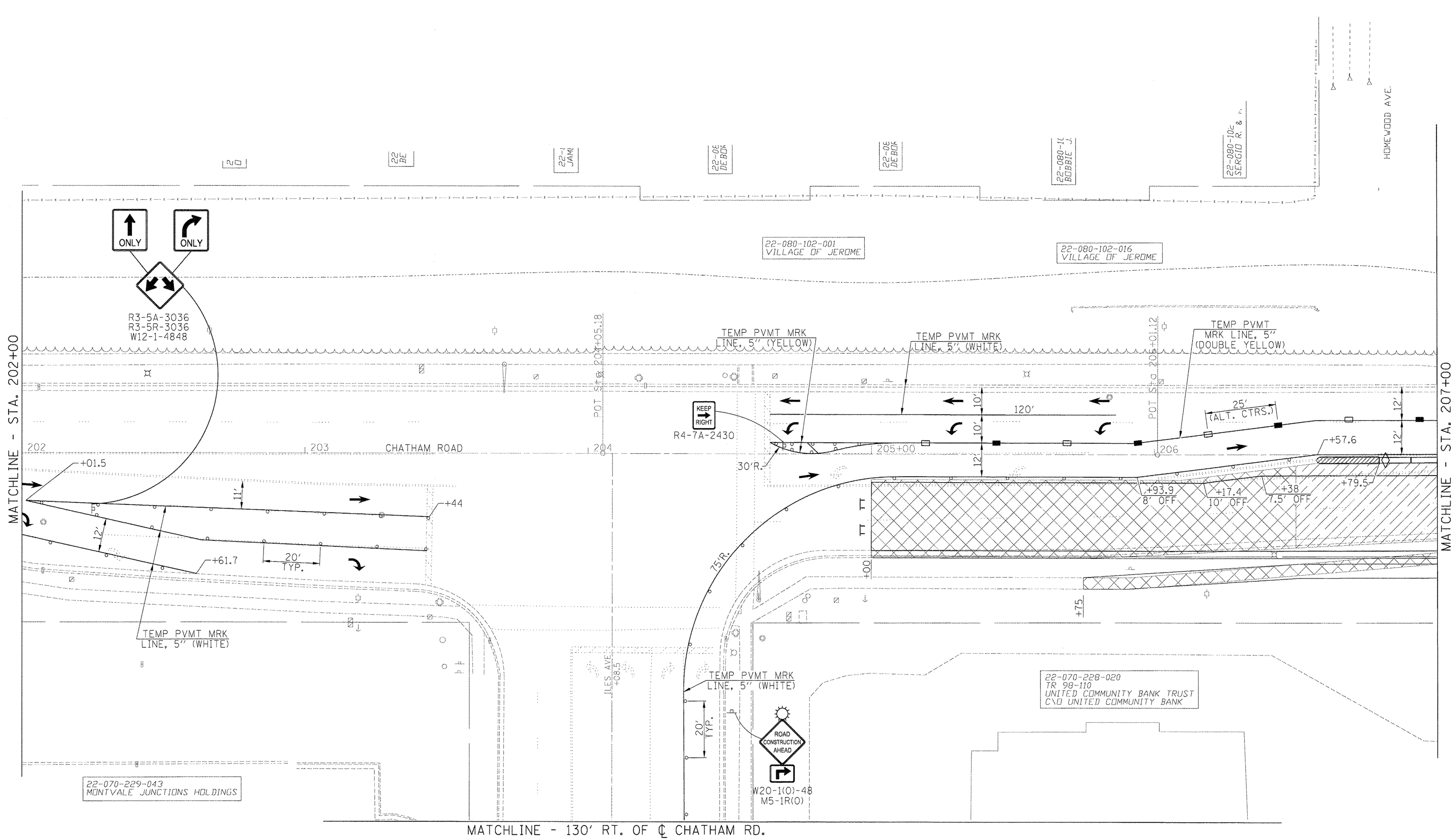
STAGE I TRAFFIC CONTROL ITEMS

ITEM	QUANTITY	UNIT
TEMPORARY CONCRETE BARRIER	512.5	FOOT
IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL	2	EACH
PAVEMENT MARKING REMOVAL	1016	SQ FT
TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	289	SQ FT
TEMPORARY PAVEMENT MARKING - LINE 5"	4377	FOOT
TEMPORARY PAVEMENT MARKING - LINE 12	73	FOOT
RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	12	EACH
TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	15	EACH
FLEXIBLE DELINEATORS	16	EACH

- SYMBOLS**
- IMPACT ATTENUATOR
  - REMOVAL ITEMS
  - TEMPORARY CONCRETE BARRIER
  - TRAFFIC SIGN
  - TYPE C BIDIRECTIONAL REFLECTOR
  - DRUM
  - FLEXIBLE DELINEATOR
  - RAISED REFLECTIVE PAVEMENT MARKER
  - TYPE III BARRICADE
  - LIGHTS, TYPE A

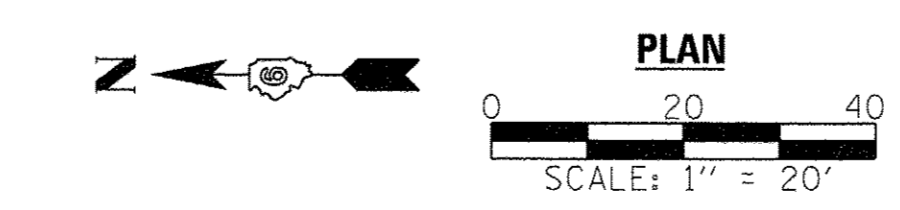


FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>STAGE CONSTRUCTION TRAFFIC DETAILS</b> <b>STAGE I</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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							FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**SYMBOLS**

- IMPACT ATTENUATOR
- REMOVAL ITEMS
- TEMPORARY CONCRETE BARRIER
- TRAFFIC SIGN
- TYPE C BIDIRECTIONAL REFLECTOR
- DRUM
- FLEXIBLE DELINEATOR
- RAISED REFLECTIVE PAVEMENT MARKER
- TYPE III BARRICADE
- LIGHTS, TYPE A



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



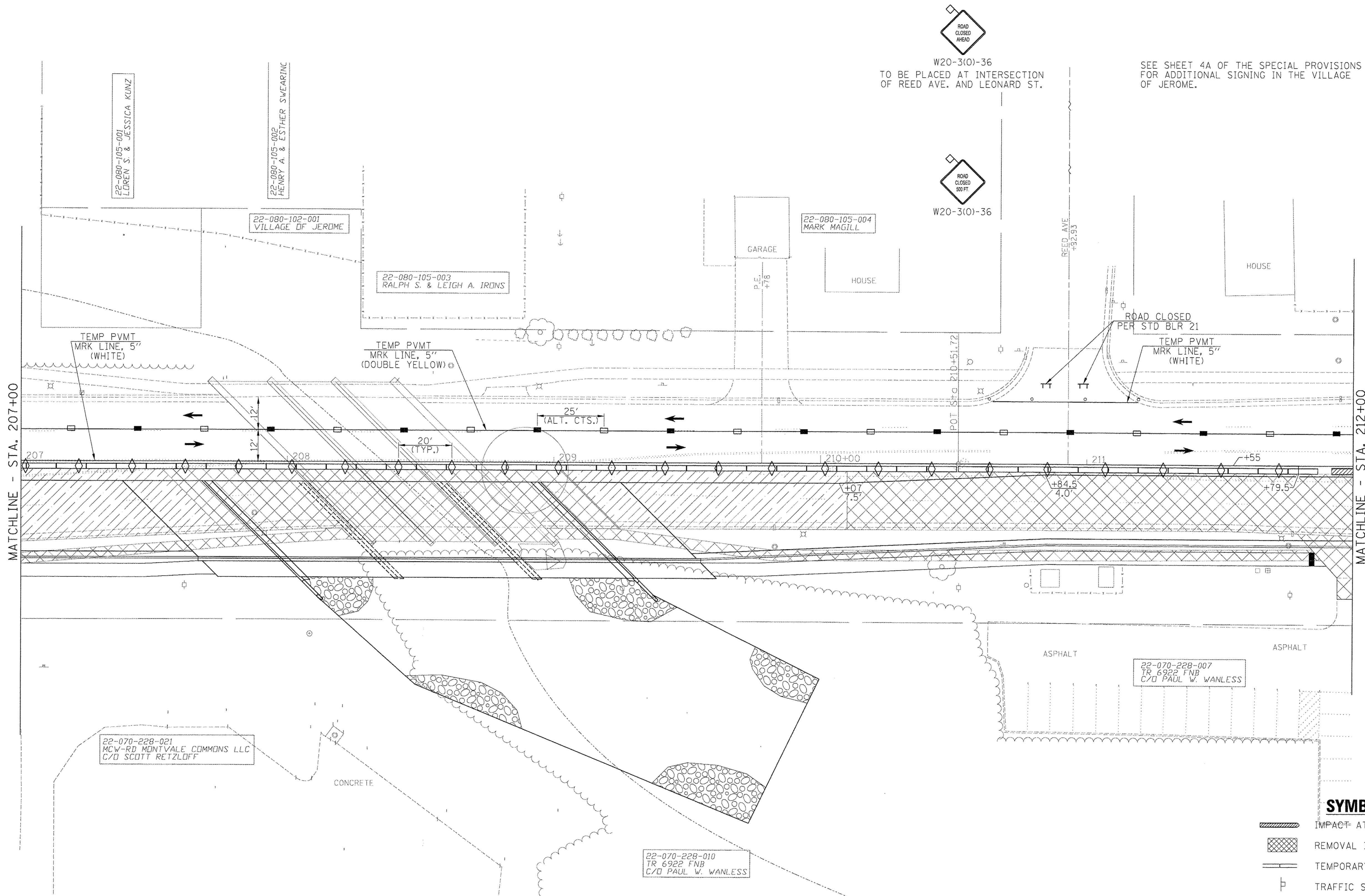
**Allen Henderson & Associates, Inc.**  
Civil and Structural Engineers Springfield, IL.  
62703 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

**STAGE CONSTRUCTION TRAFFIC DETAILS  
STAGE I**

SCALE: 1" = 20'	SHEET NO. 3 OF 12 SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	26
FED. ROAD DIST. NO. [ILLIN015] FED. AID PROJECT			CONTRACT NO. <b>93600</b>	



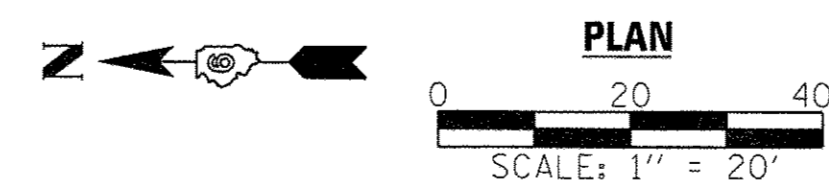


W20-3(0)-36  
TO BE PLACED AT INTERSECTION  
OF REED AVE. AND LEONARD ST.

SEE SHEET 4A OF THE SPECIAL PROVISIONS  
FOR ADDITIONAL SIGNING IN THE VILLAGE  
OF JEROME.

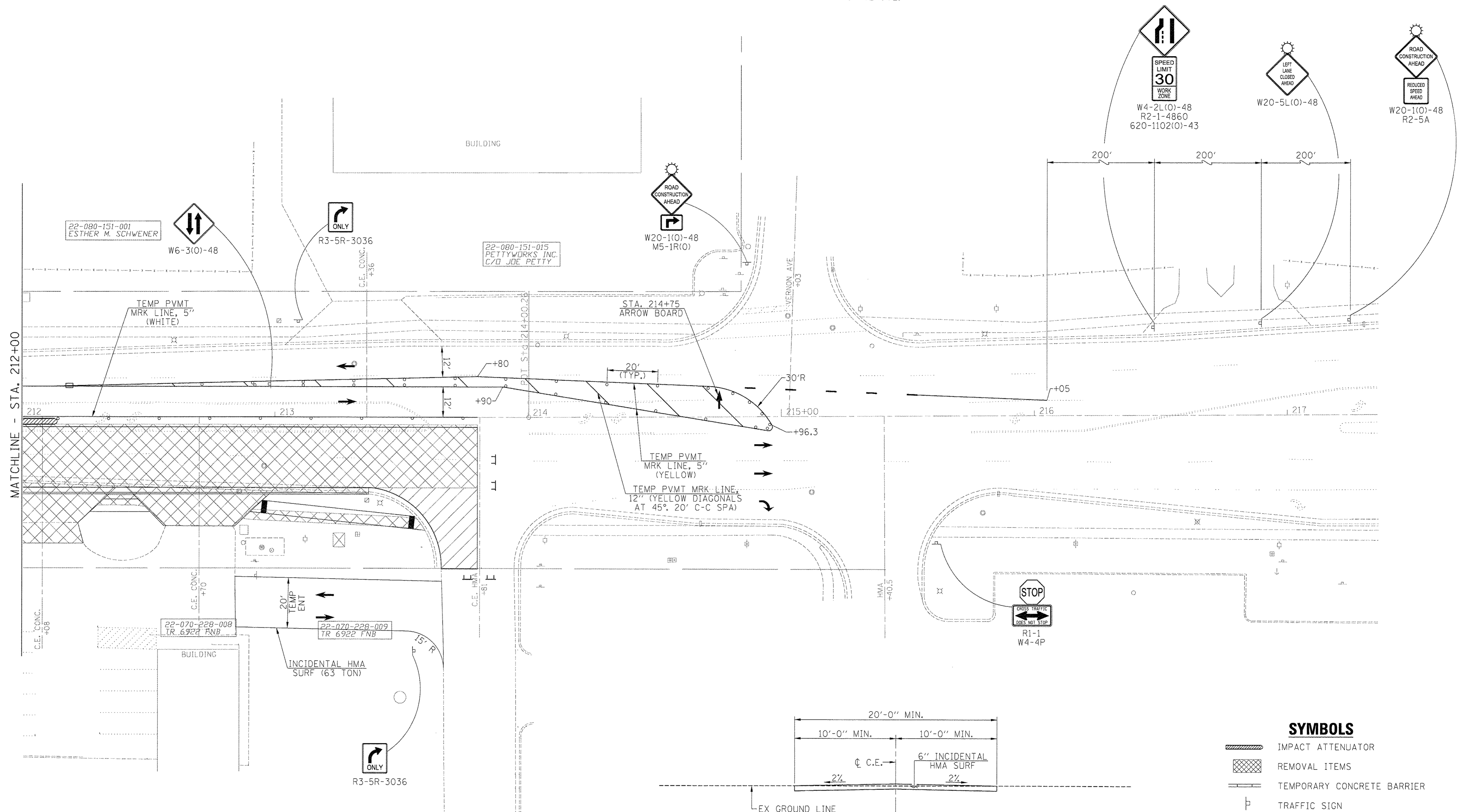
**SYMBOLS**

- IMPACT ATTENUATOR
- REMOVAL ITEMS
- TEMPORARY CONCRETE BARRIER
- TRAFFIC SIGN
- TYPE C BIDIRECTIONAL REFLECTOR
- DRUM
- FLEXIBLE DELINEATOR
- RAISED REFLECTIVE PAVEMENT MARKER
- TYPE III BARRICADE
- LIGHTS, TYPE A



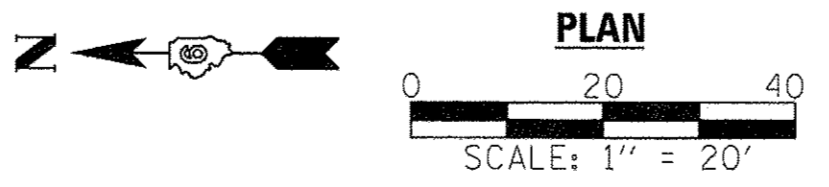
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<p align="right">FED. ROAD DIST. NO.   ILLINOIS FED. AID PROJECT</p>											

SEE SHEET OF THE SPECIAL PROVISIONS FOR ADDITIONAL SIGNING IN THE VILLAGE OF JEROME.



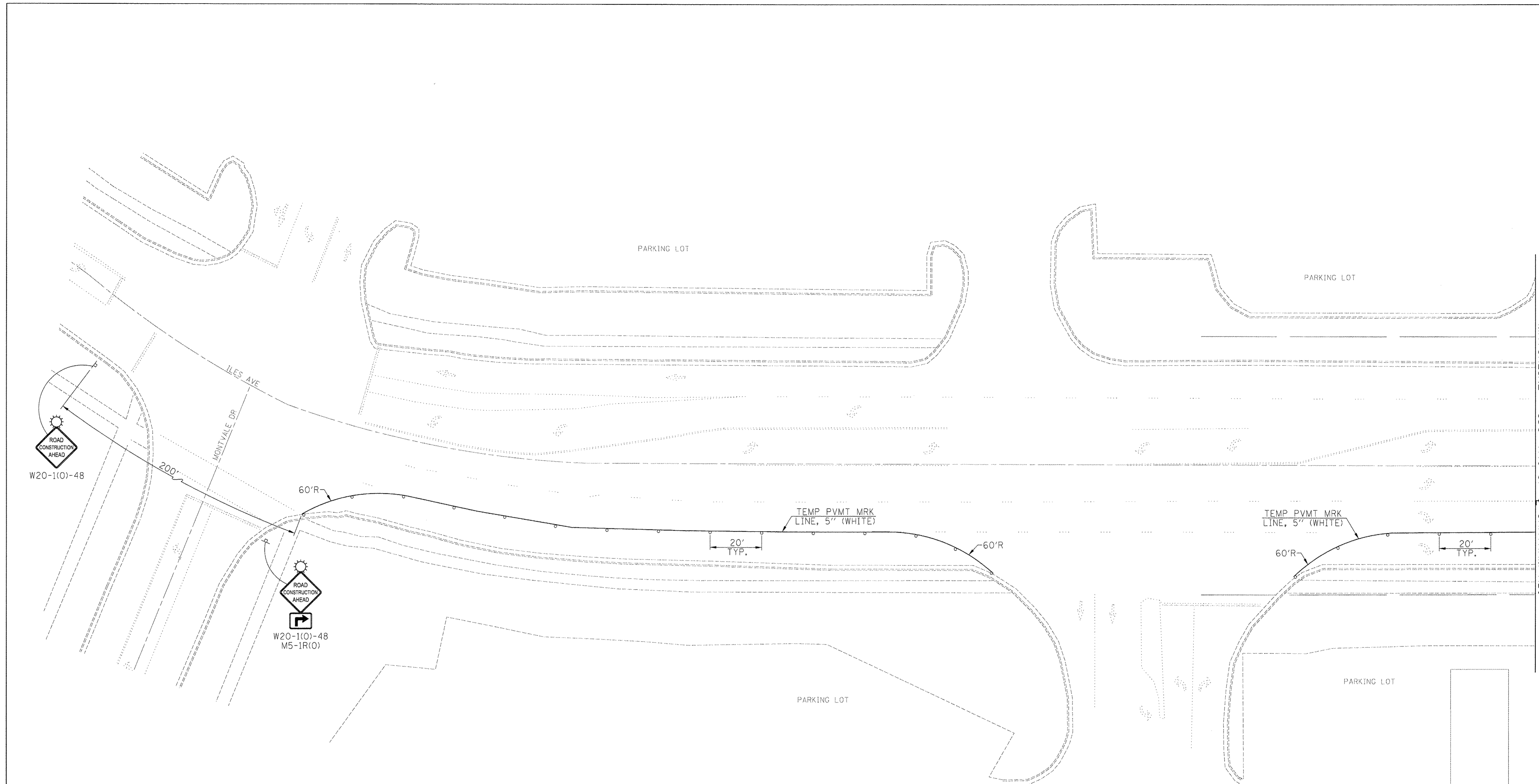
**TEMPORARY ENTRANCE CROSS SECTION**

- SYMBOLS**
- IMPACT ATTENUATOR
  - REMOVAL ITEMS
  - TEMPORARY CONCRETE BARRIER
  - TRAFFIC SIGN
  - TYPE C BIDIRECTIONAL REFLECTOR
  - DRUM
  - FLEXIBLE DELINEATOR
  - RAISED REFLECTIVE PAVEMENT MARKER
  - TYPE III BARRICADE
  - LIGHTS, TYPE A



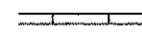









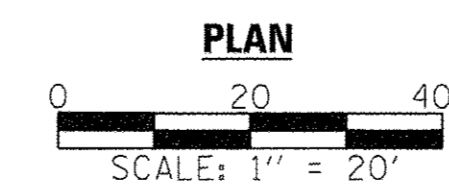
FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>STAGE CONSTRUCTION TRAFFIC DETAILS</b> <b>STAGE I</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#	PLOT SCALE = #SCALE#	DRAWN -	REVISED -				8006	10-00470-00-BR	SANGAMON	90	28
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**SYMBOLS**

-  IMPACT ATTENUATOR
-  REMOVAL ITEMS
-  TEMPORARY CONCRETE BARRIER
-  TRAFFIC SIGN
-  TYPE C BIDIRECTIONAL REFLECTOR
-  DRUM
-  FLEXIBLE DELINEATOR
-  RAISED REFLECTIVE PAVEMENT MARKER
-  TYPE III BARRICADE
-  LIGHTS, TYPE A



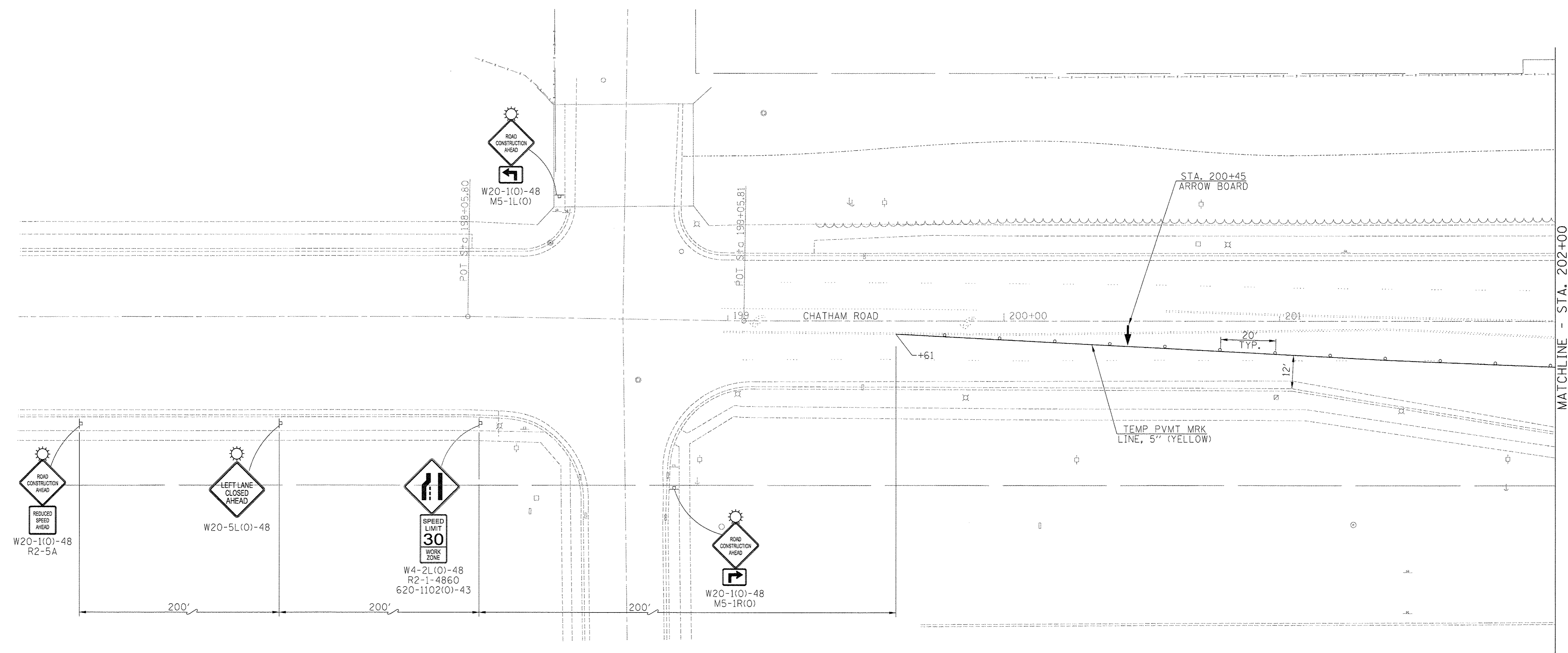
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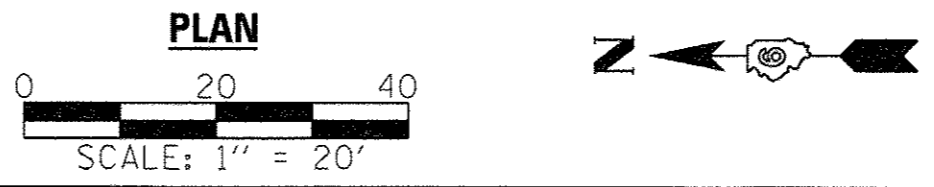
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL.  
 62703 Phone: (217)544-8033 IL. Design Firm  
 No. 184-001907

STAGE CONSTRUCTION TRAFFIC DETAILS STAGE I			
SCALE: 1" = 20'	SHEET NO. 6 OF 12 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	29
CONTRACT NO. 93600				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



- SYMBOLS**
- IMPACT ATTENUATOR
  - REMOVAL ITEMS
  - TEMPORARY CONCRETE BARRIER
  - TRAFFIC SIGN
  - TYPE C BIDIRECTIONAL REFLECTOR
  - DRUM
  - FLEXIBLE DELINEATOR
  - RAISED REFLECTIVE PAVEMENT MARKER
  - TYPE III BARRICADE
  - LIGHTS, TYPE A



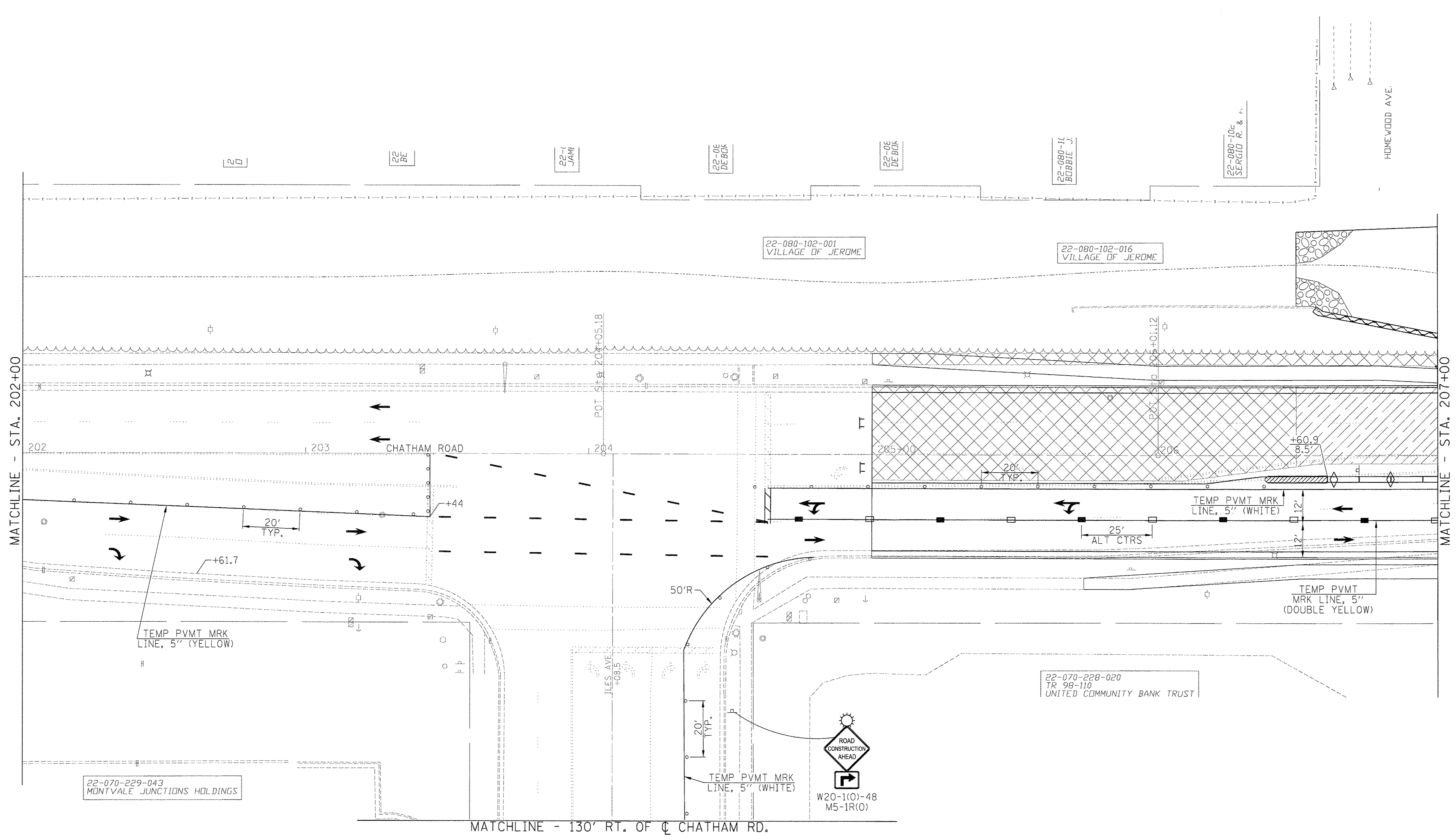
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**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

<b>STAGE CONSTRUCTION TRAFFIC DETAILS</b>			
<b>STAGE II</b>			
SCALE: 1" = 20'	SHEET NO. 7 OF 12 SHEETS	STA.	TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	30
CONTRACT NO. <b>93600</b>				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				





- SYMBOLS**
- IMPACT ATTENUATOR
  - REMOVAL ITEMS
  - TEMPORARY CONCRETE BARRIER
  - TRAFFIC SIGN
  - TYPE C BIDIRECTIONAL REFLECTOR
  - DRUM
  - FLEXIBLE DELINEATOR
  - RAISED REFLECTIVE PAVEMENT MARKER
  - TYPE III BARRICADE
  - LIGHTS, TYPE A

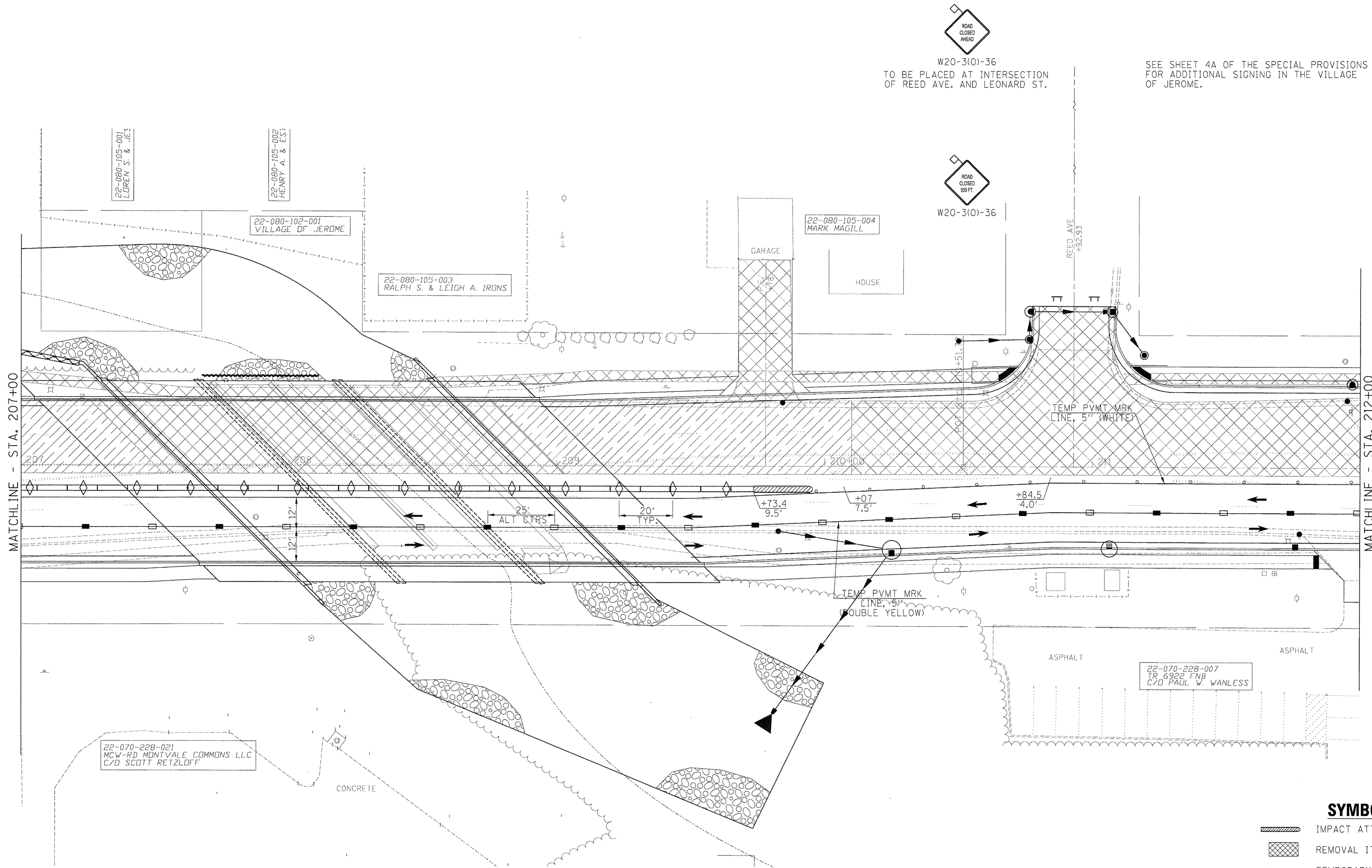
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**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL.  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

**STAGE CONSTRUCTION TRAFFIC DETAILS**  
**STAGE II**

SCALE: 1" = 20' SHEET NO. 8 OF 12 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	31
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. <b>93600</b>	



W20-310)-36  
TO BE PLACED AT INTERSECTION  
OF REED AVE. AND LEONARD ST.

SEE SHEET 4A OF THE SPECIAL PROVISIONS  
FOR ADDITIONAL SIGNING IN THE VILLAGE  
OF JEROME.

MATCHLINE - STA. 207+00

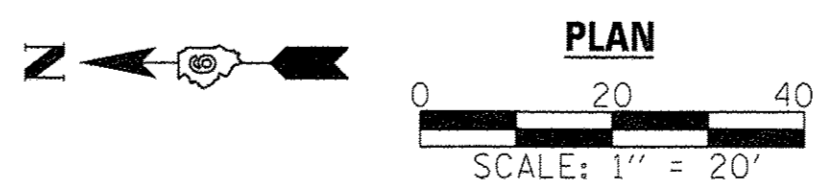
MATCHLINE - STA. 212+00

22-070-228-021  
MCW-RD MONTVALE COMMONS LLC  
C/O SCOTT RETZLOFF

22-070-228-007  
TR. 6922 PNB  
C/O PAUL W. WANLESS

**SYMBOLS**

- IMPACT ATTENUATOR
- REMOVAL ITEMS
- TEMPORARY CONCRETE BARRIER
- TRAFFIC SIGN
- TYPE C BIDIRECTIONAL REFLECTOR
- DRUM
- FLEXIBLE DELINEATOR
- RAISED REFLECTIVE PAVEMENT MARKER
- TYPE III BARRICADE
- LIGHTS, TYPE A



FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
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	PLOT DATE = #DATE#	DATE -	REVISED -

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

**STAGE CONSTRUCTION TRAFFIC DETAILS**  
**STAGE II**

SCALE: 1" = 20'    SHEET NO. 9 OF 12 SHEETS    STA.    TO STA.

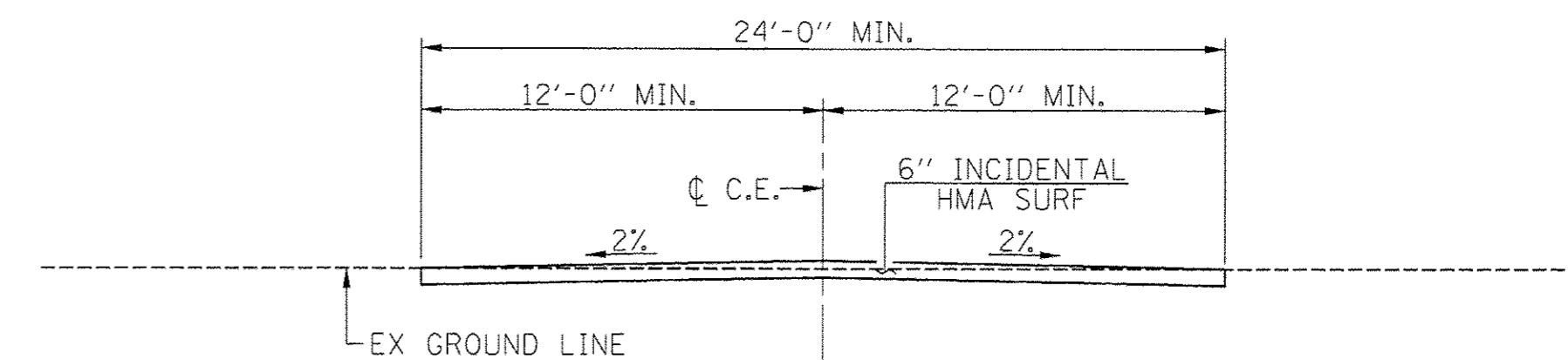
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8006	10-00470-00-BR	SANGAMON	90	32
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. <b>93600</b>	



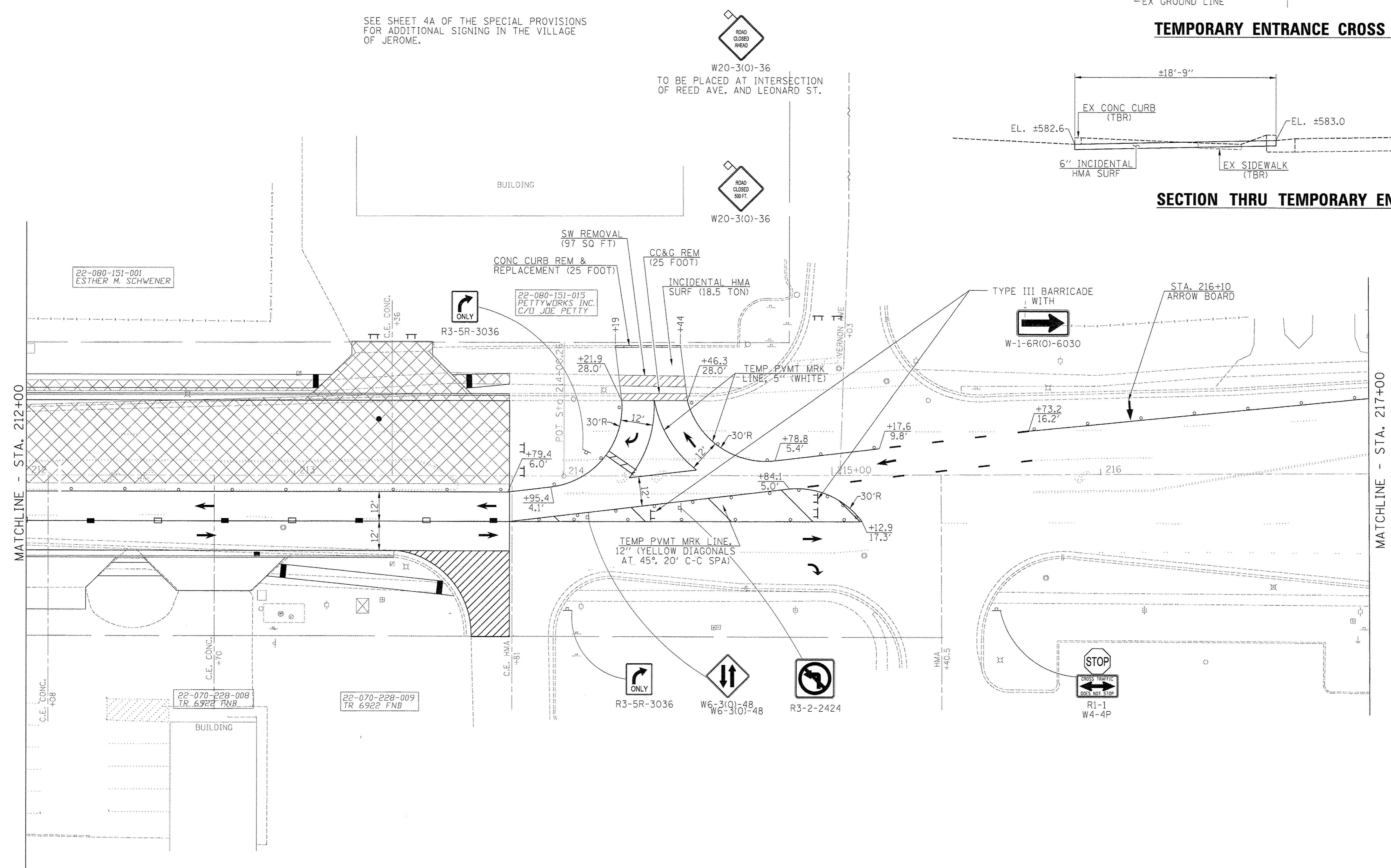
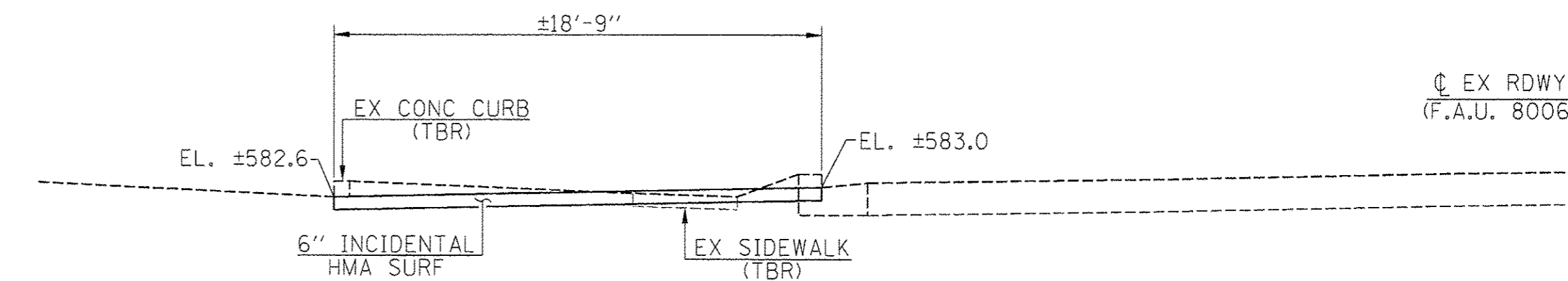
SEE SHEET 4A OF THE SPECIAL PROVISIONS FOR ADDITIONAL SIGNING IN THE VILLAGE OF JEROME.

W20-3(0)-36  
TO BE PLACED AT INTERSECTION OF REED AVE. AND LEONARD ST.

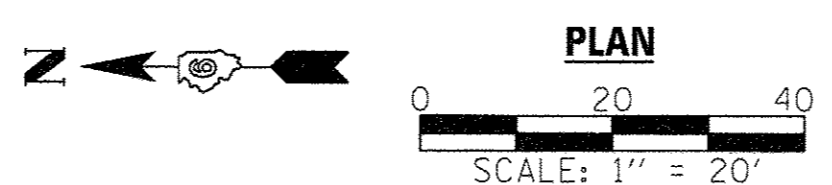
**TEMPORARY ENTRANCE CROSS SECTION**



**SECTION THRU TEMPORARY ENTRANCE**



- SYMBOLS**
- IMPACT ATTENUATOR
  - REMOVAL ITEMS
  - TEMPORARY CONCRETE BARRIER
  - TRAFFIC SIGN
  - TYPE C BIDIRECTIONAL REFLECTOR
  - DRUM
  - FLEXIBLE DELINEATOR
  - RAISED REFLECTIVE PAVEMENT MARKER
  - TYPE III BARRICADE
  - LIGHTS, TYPE A



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	PLOT DATE = #DATE#	DATE -	REVISED -

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

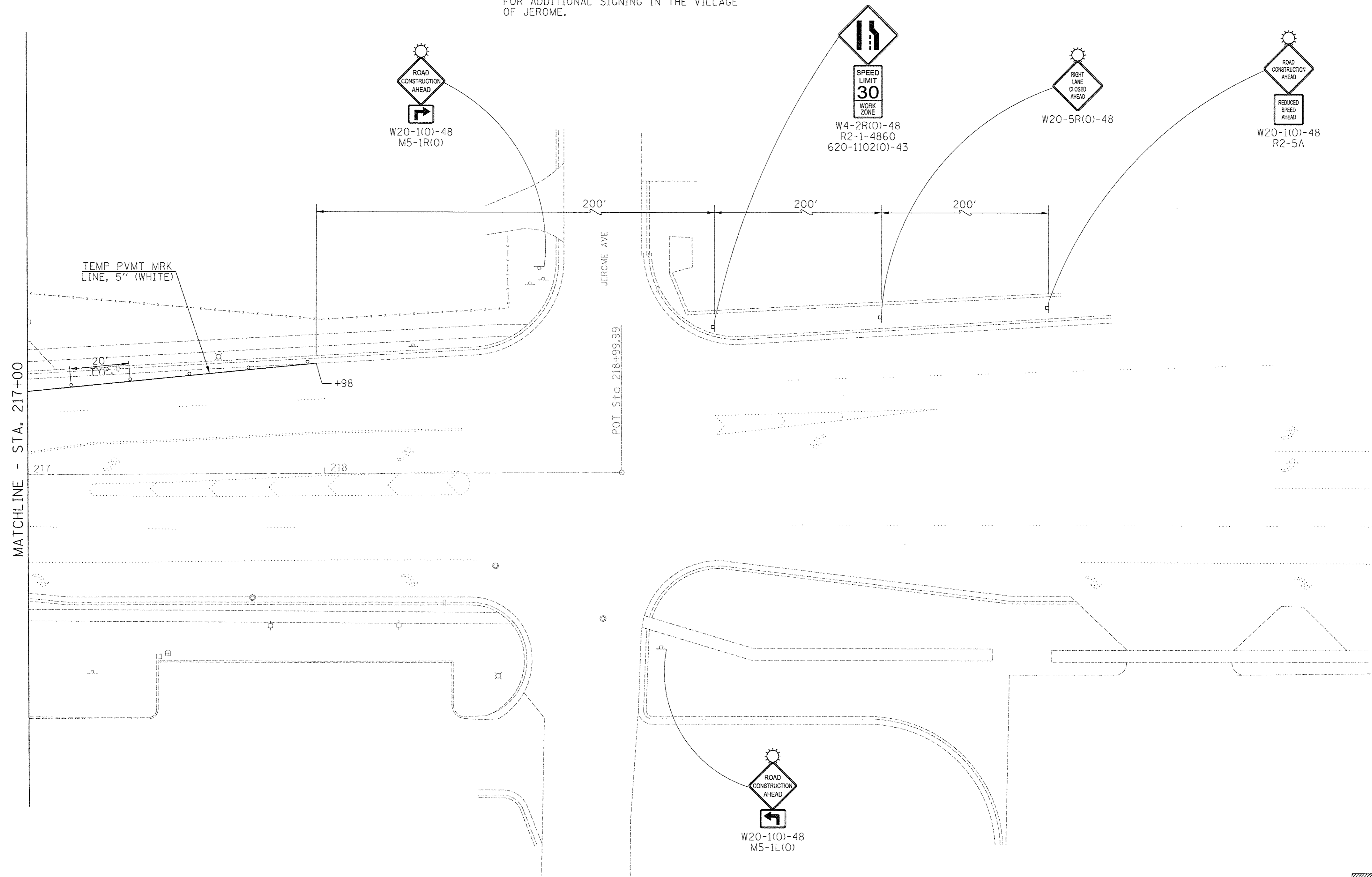
**STAGE CONSTRUCTION TRAFFIC DETAILS**  
**STAGE II**

SCALE: 1" = 20'    SHEET NO. 10 OF 12 SHEETS    STA.    TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	33
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

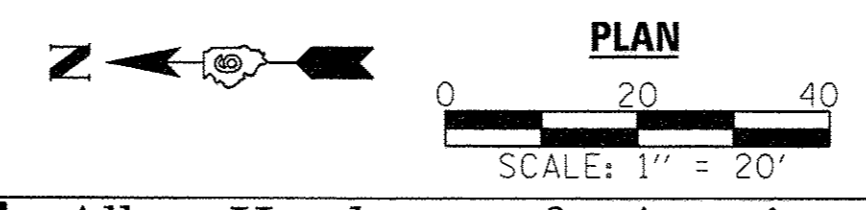
CONTRACT NO. 9360

SEE SHEET OF THE SPECIAL PROVISIONS FOR ADDITIONAL SIGNING IN THE VILLAGE OF JEROME.



**SYMBOLS**

- IMPACT ATTENUATOR
- REMOVAL ITEMS
- TEMPORARY CONCRETE BARRIER
- TRAFFIC SIGN
- TYPE C BIDIRECTIONAL REFLECTOR
- DRUM
- FLEXIBLE DELINEATOR
- RAISED REFLECTIVE PAVEMENT MARKER
- TYPE III BARRICADE
- LIGHTS, TYPE A



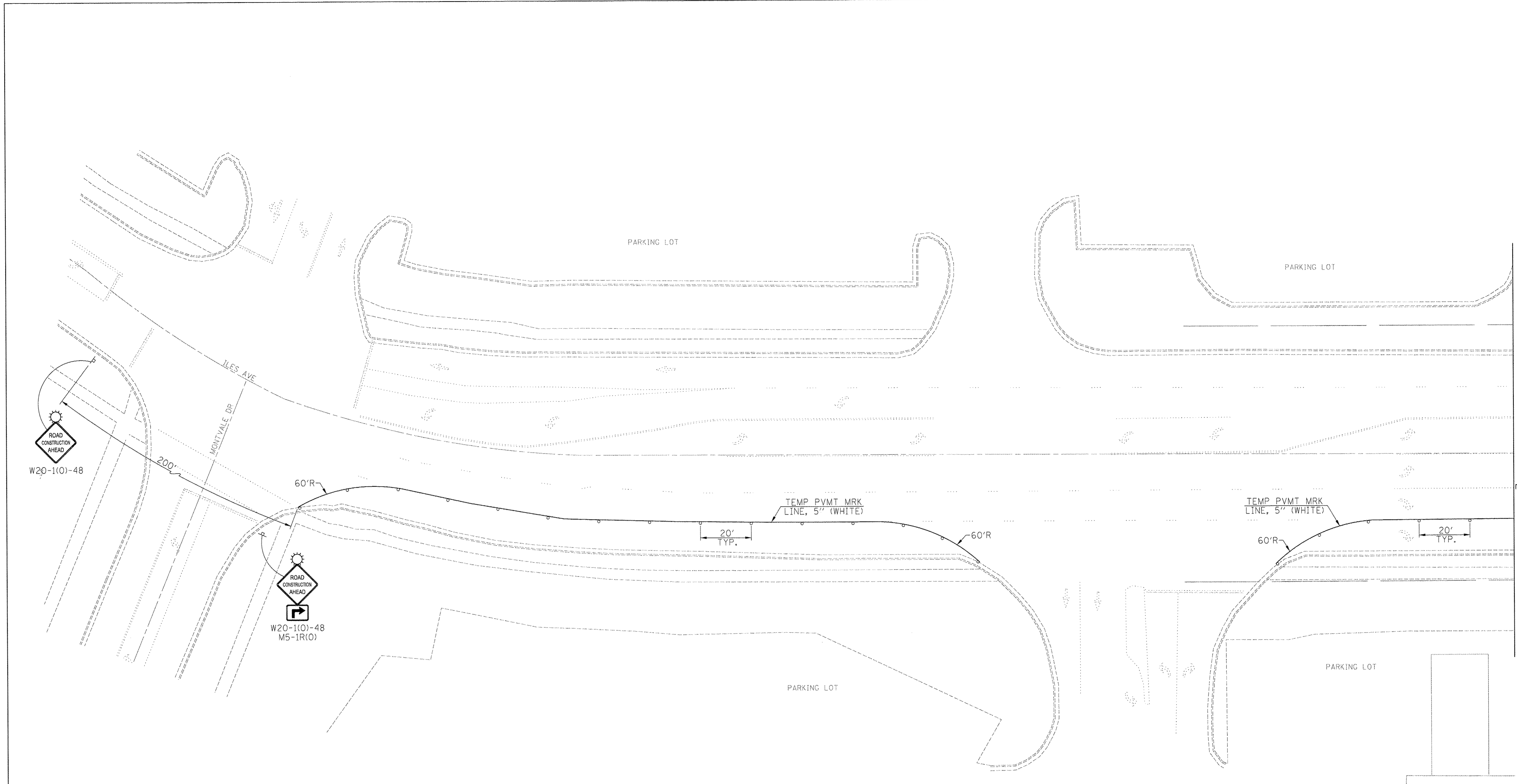
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**Allen Henderson & Associates, Inc.**  
Civil and Structural Engineers Springfield, IL.  
62703 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

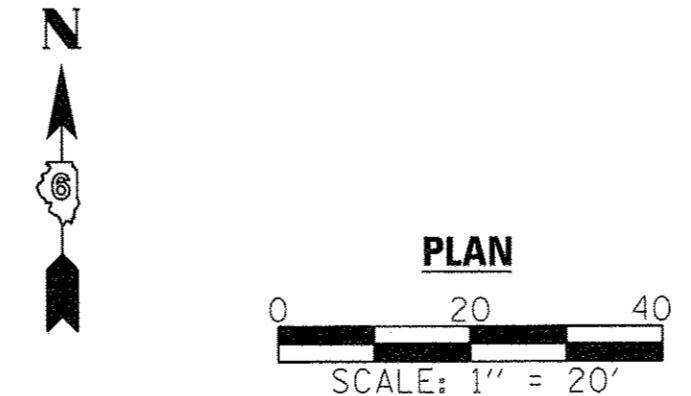
STAGE CONSTRUCTION TRAFFIC DETAILS			
STAGE II			
SCALE: 1" = 20'	SHEET NO. 11 OF 12 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	34
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. <b>93600</b>	

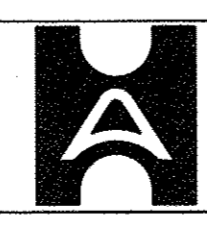




- SYMBOLS**
- IMPACT ATTENUATOR
  - REMOVAL ITEMS
  - TEMPORARY CONCRETE BARRIER
  - TRAFFIC SIGN
  - TYPE C BIDIRECTIONAL REFLECTOR
  - DRUM
  - FLEXIBLE DELINEATOR
  - RAISED REFLECTIVE PAVEMENT MARKER
  - TYPE III BARRICADE
  - LIGHTS, TYPE A

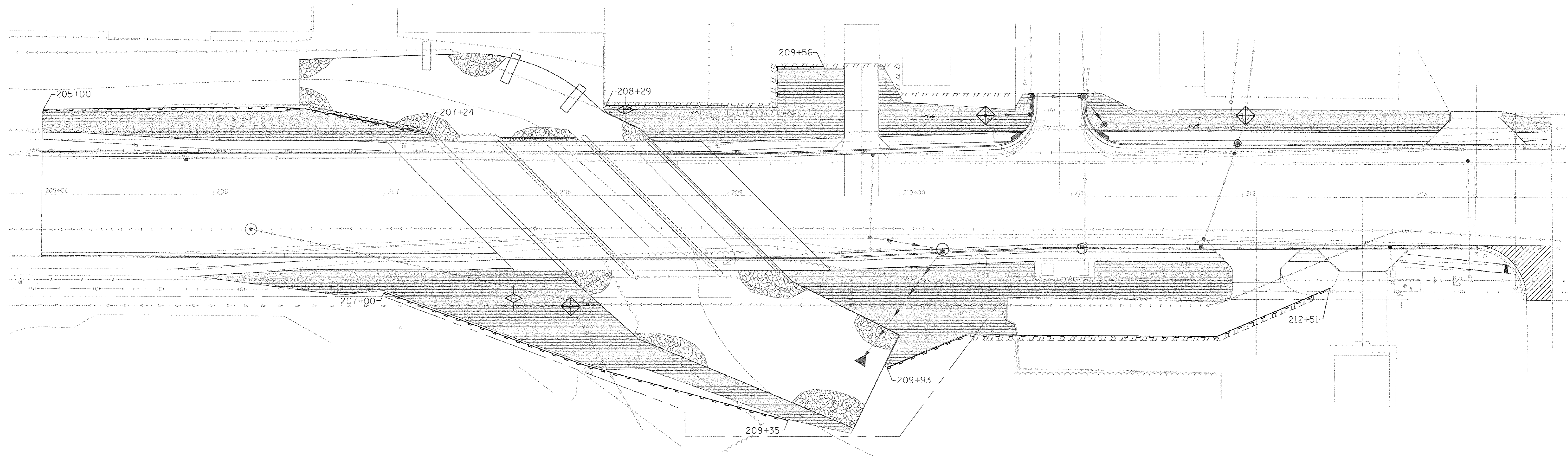


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 **Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
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 No. 184-001907

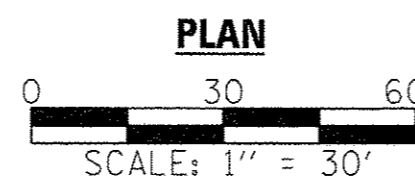
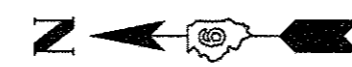
STAGE CONSTRUCTION TRAFFIC DETAILS			
STAGE II			
SCALE: 1" = 20'	SHEET NO. 12 OF 12 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	35
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 93600	



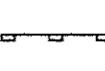




TEMPORARY EROSION CONTROL ITEMS SCHEDULE

LOCATION	TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION CONTROL BARRIER	TEMPORARY DITCH CHECKS	INLET AND PIPE PROTECTION
	POUND	FOOT	FOOT	EACH
STA. 205+00 TO STA. 207+58 LT	8			
STA. 208+28 TO STA. 213+80 LT	19			
STA. 205+00 TO STA. 211+94 RT	33			
STA. 205+00 TO STA. 207+24 LT		224		
STA. 208+28 TO STA. 209+55 LT		150		
STA. 207+00 TO STA. 209+35 RT		248		
STA. 209+93 TO STA. 212+50 RT		268		
STA. 207+75, 60' RT			15	
STA. 208+40, 50' LT			15	
STA. 208+08, 65' RT				1
STA. 210+50, 46.9' LT				1
STA. 212+01, 47' LT				1
TOTAL	60	890	30	3



LEGEND

-  - TEMPORARY DITCH CHECK
-  - INLET & PIPE PROTECTION
-  - PERIMETER EROSION BARRIER
-  - STONE RIPRAP, CLASS A4 (STRUCTURE QTY)
-  - TEMPORARY EROSION CONTROL SEEDING

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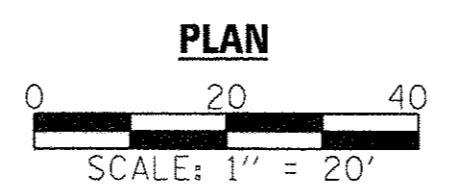
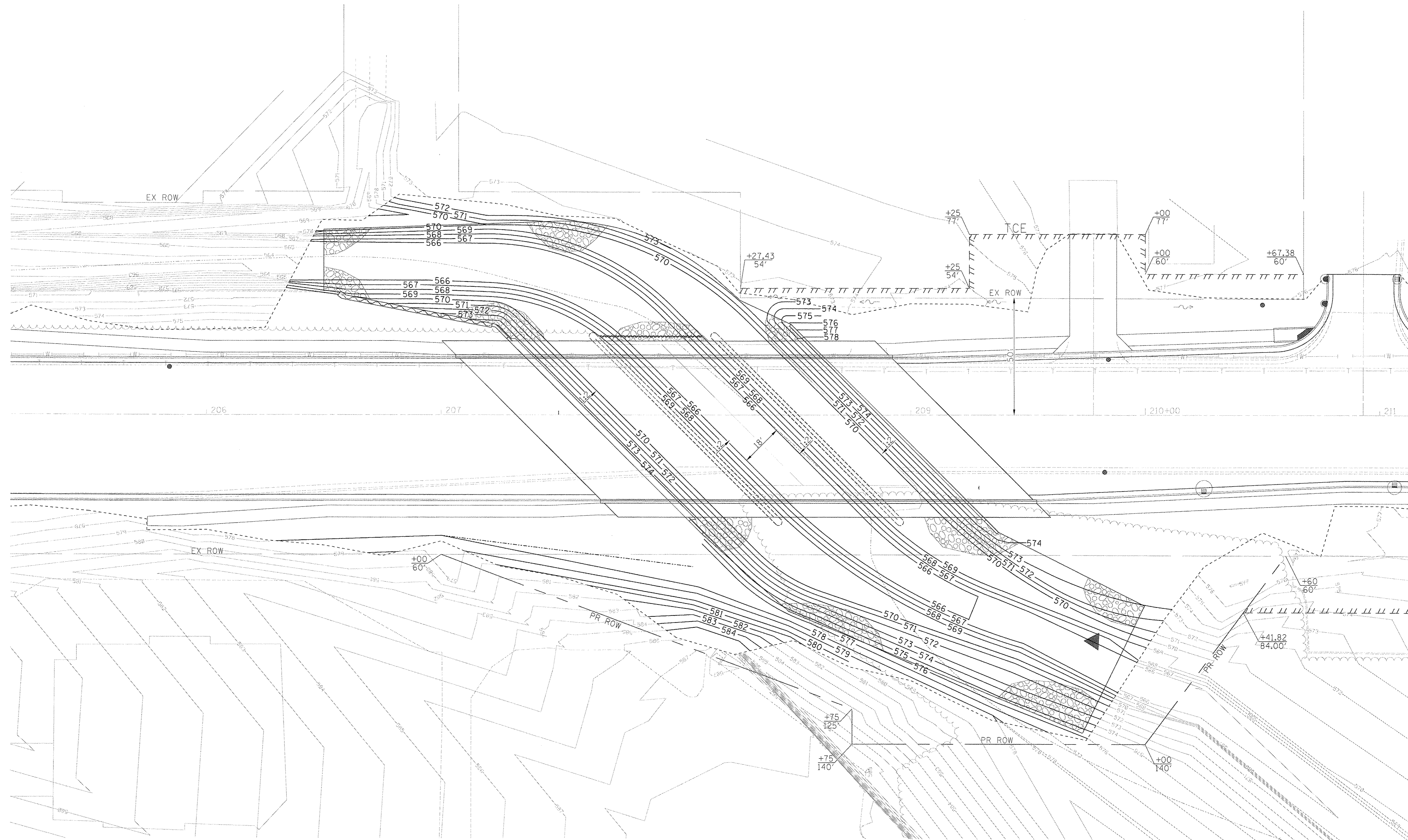
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL.  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

EROSION CONTROL PLAN


SCALE: 1" = 30' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	36
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 93600	



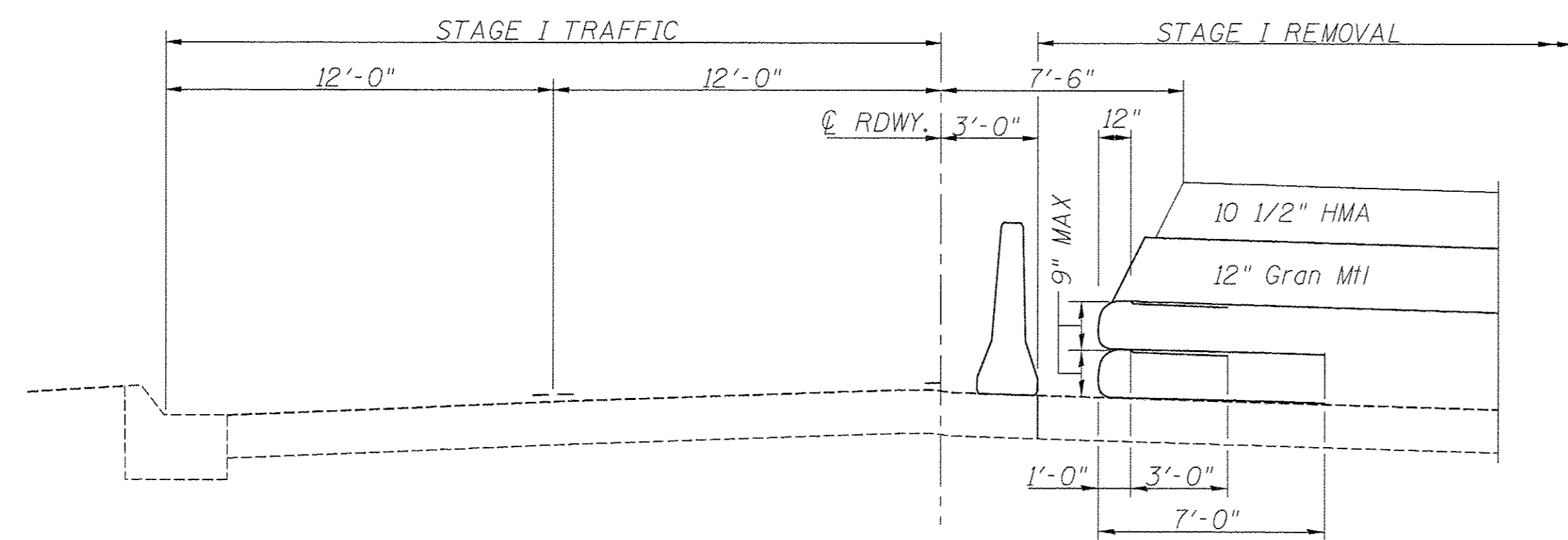


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	PLOT DATE = *DATE*	DATE -	REVISED -


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

GRADING PLAN			
SCALE: 1" = 20'	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

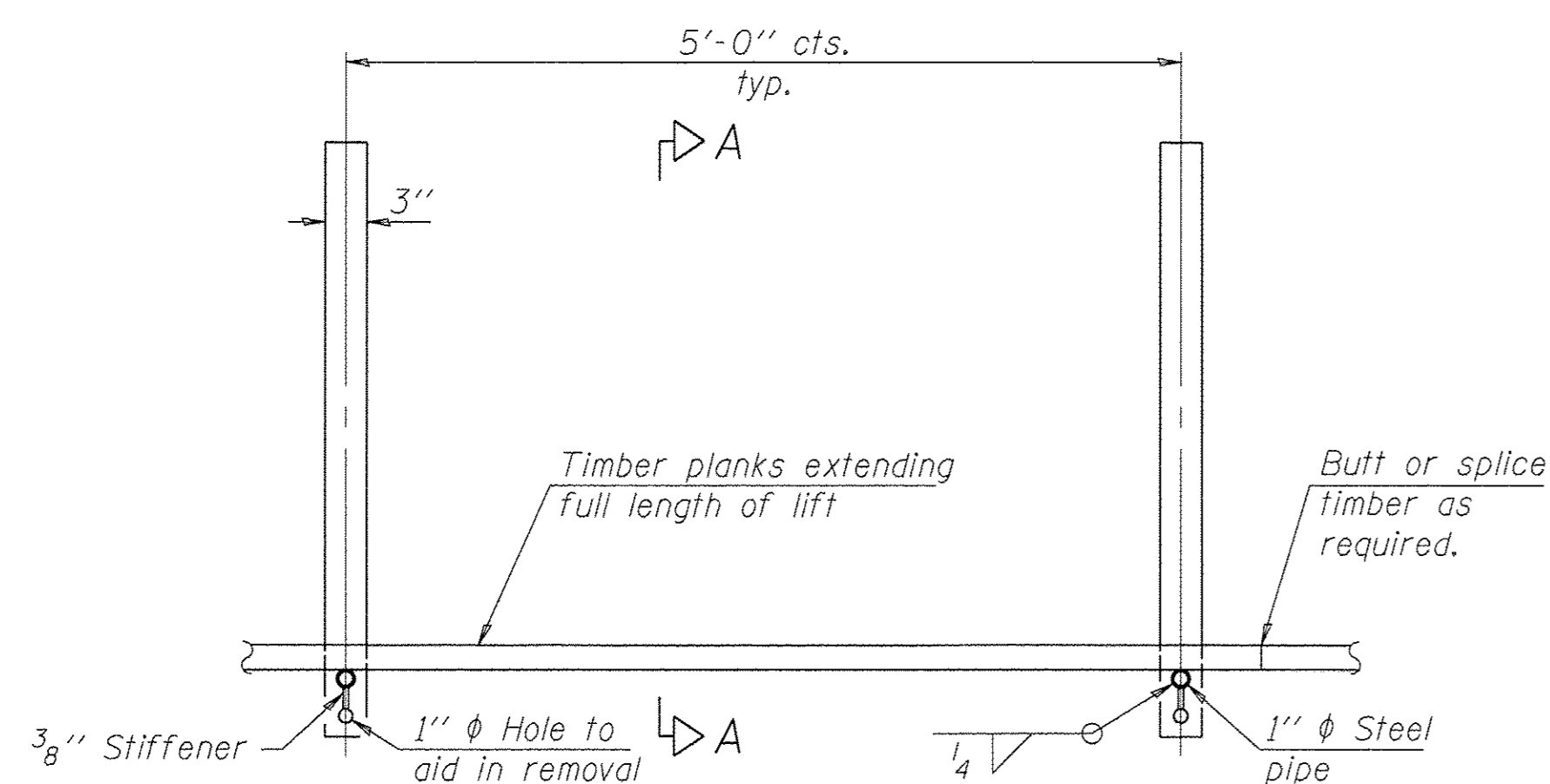
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B006	10-00470-00-BR	SANGAMON	90	37
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				CONTRACT NO. 93600



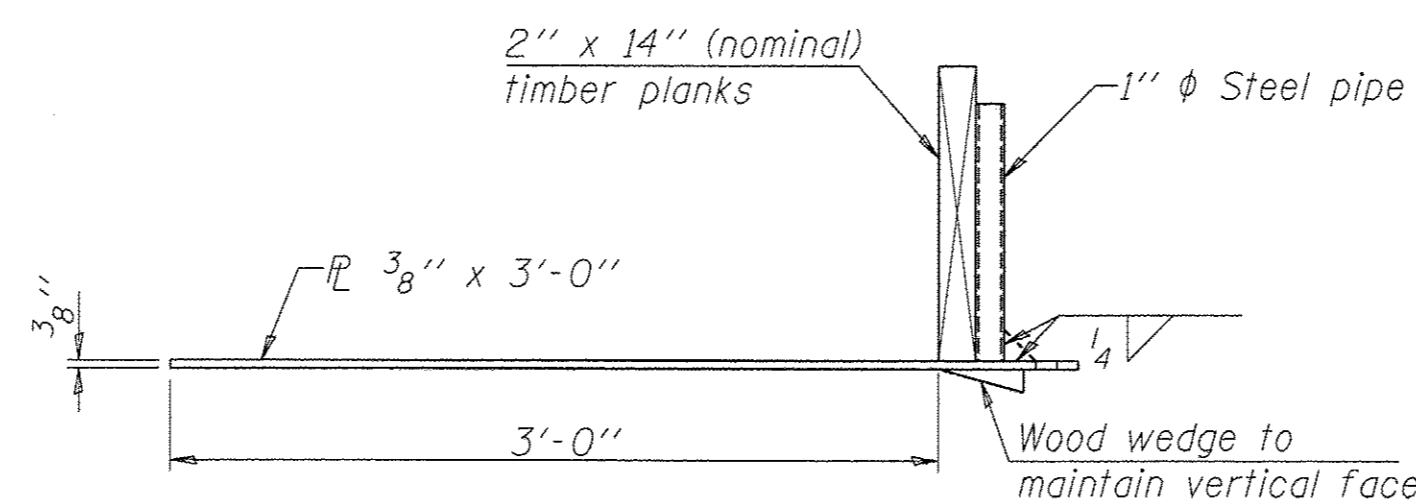
SECTION A-A

SCHEDULE  
GEOTEXTILE RETAINING WALL

LOCATION	SQ. FT.
STA. 205+00 TO STA. 207+49	420
STA. 209+05 TO STA. 213+80	808
TOTAL	1228



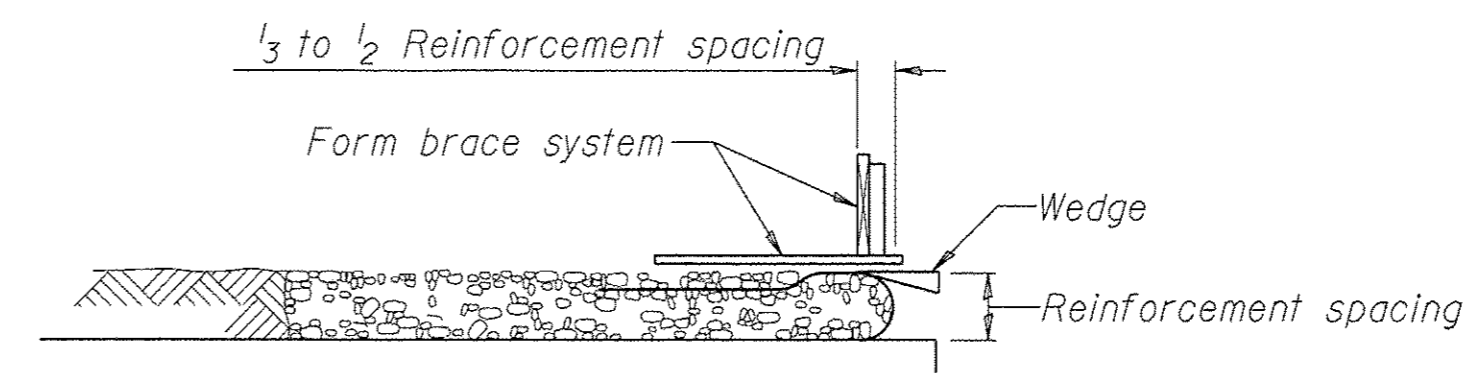
PLAN



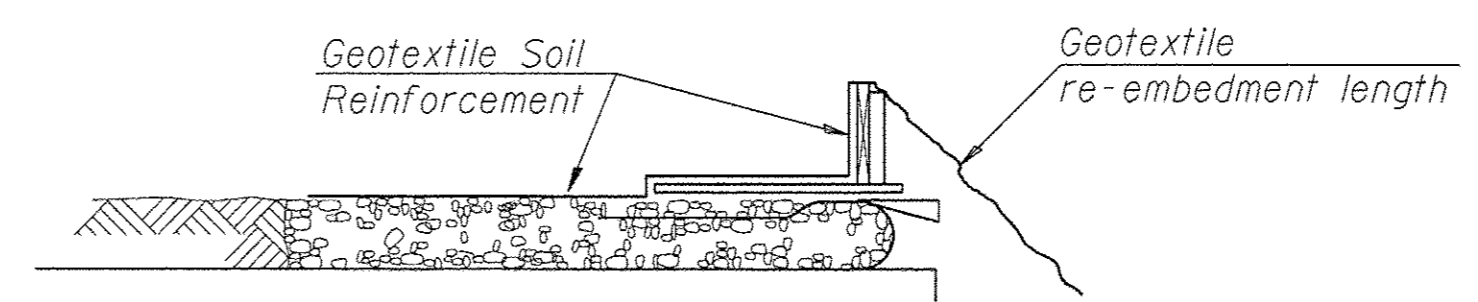
SECTION A-A

TEMPORARY GEOTEXTILE  
FORM BRACE DETAIL

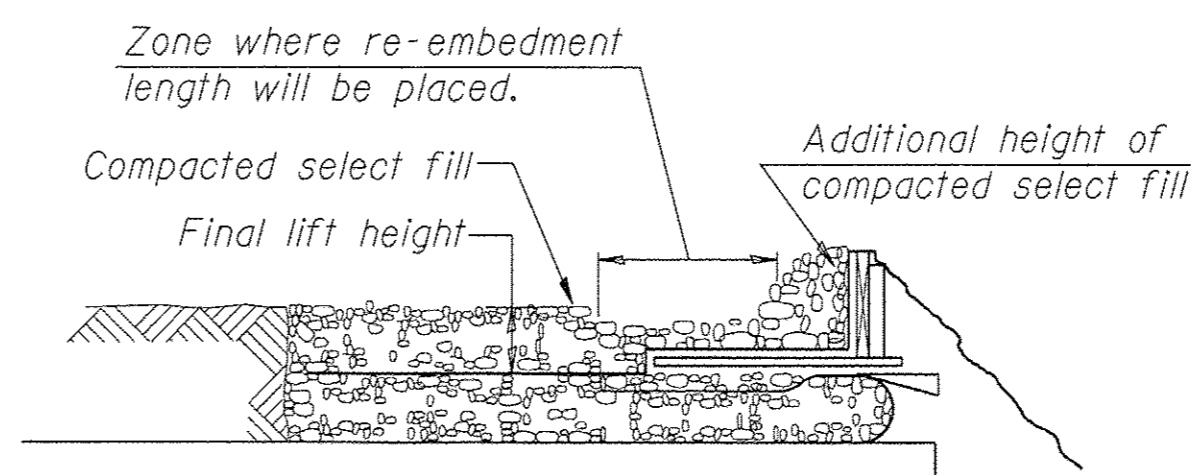
Note:  
This is a suggested detail, the Contractor is responsible for the design of the form brace system to be used.



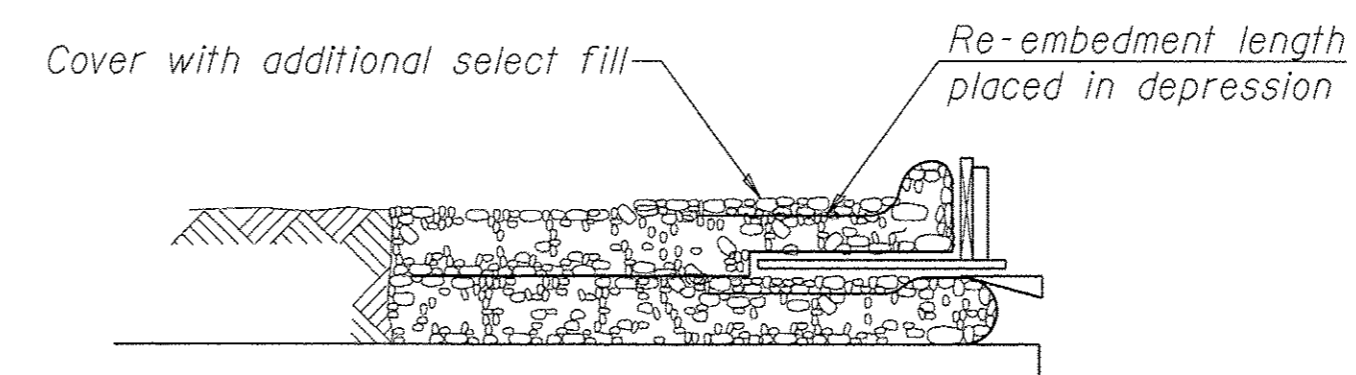
1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of  $\frac{1}{3}$  to  $\frac{1}{2}$  the geotextile reinforcement spacing.



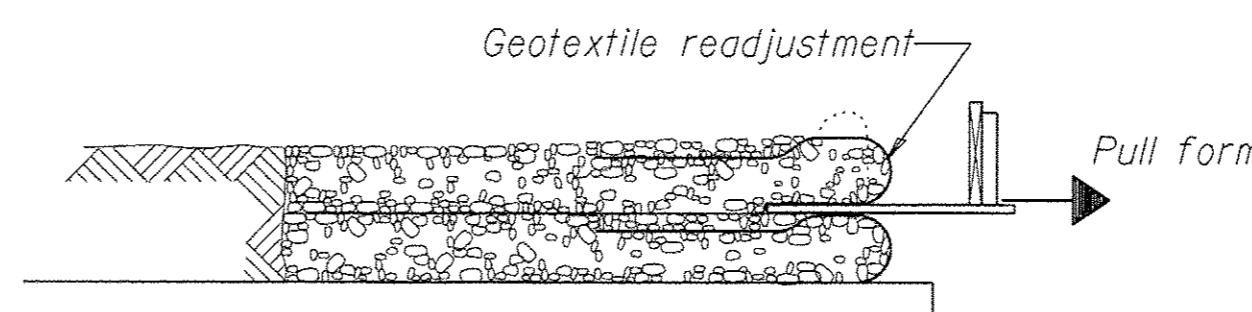
2. Position fabric so that the required geotextile re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.



3. Compact select fill material in lifts to final lift height, create ( $\pm 3'$ ) depression in zone where re-embedment length will be located and place additional height of compacted select fill against form brace.



4. Fold geotextile re-embedment length back over form brace into zone where depression was made in select fill and place additional select fill ( $\pm 3'$ ) to embed geotextile and bring to final lift height.



5. Pull form brace outward allowing geotextile face to slightly readjust to form tight round face level with plan reinforcement spacing.

TEMPORARY GEOTEXTILE  
WALL CONSTRUCTION SEQUENCE

Note:  
The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of 20 lb./in. as determined by the procedure described in the Special Provision. The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
\$FILEL#		DRAWN -	REVISED -
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -
	PLOT DATE = #DATE#	DATE -	REVISED -

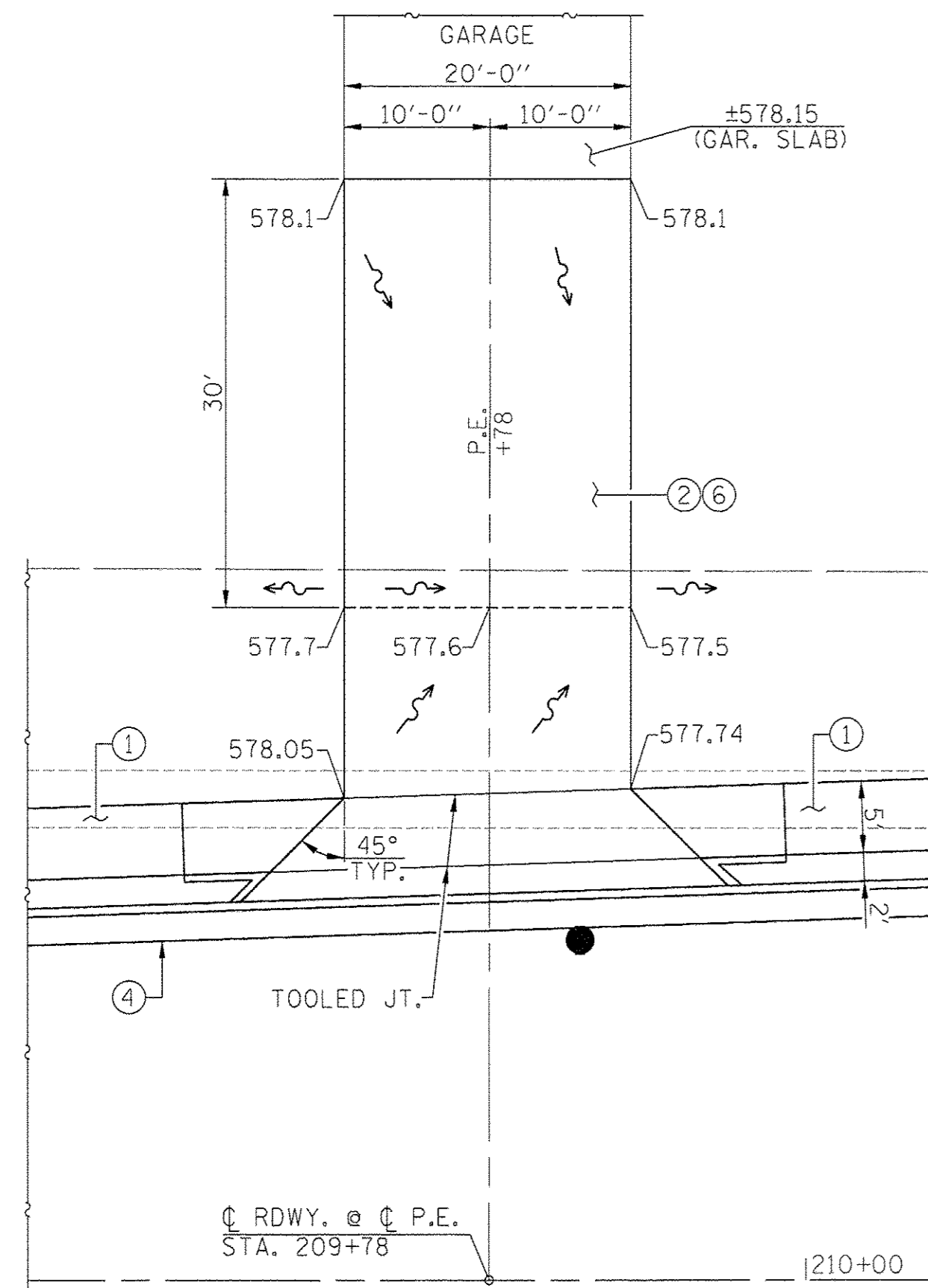


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No. 184-001907

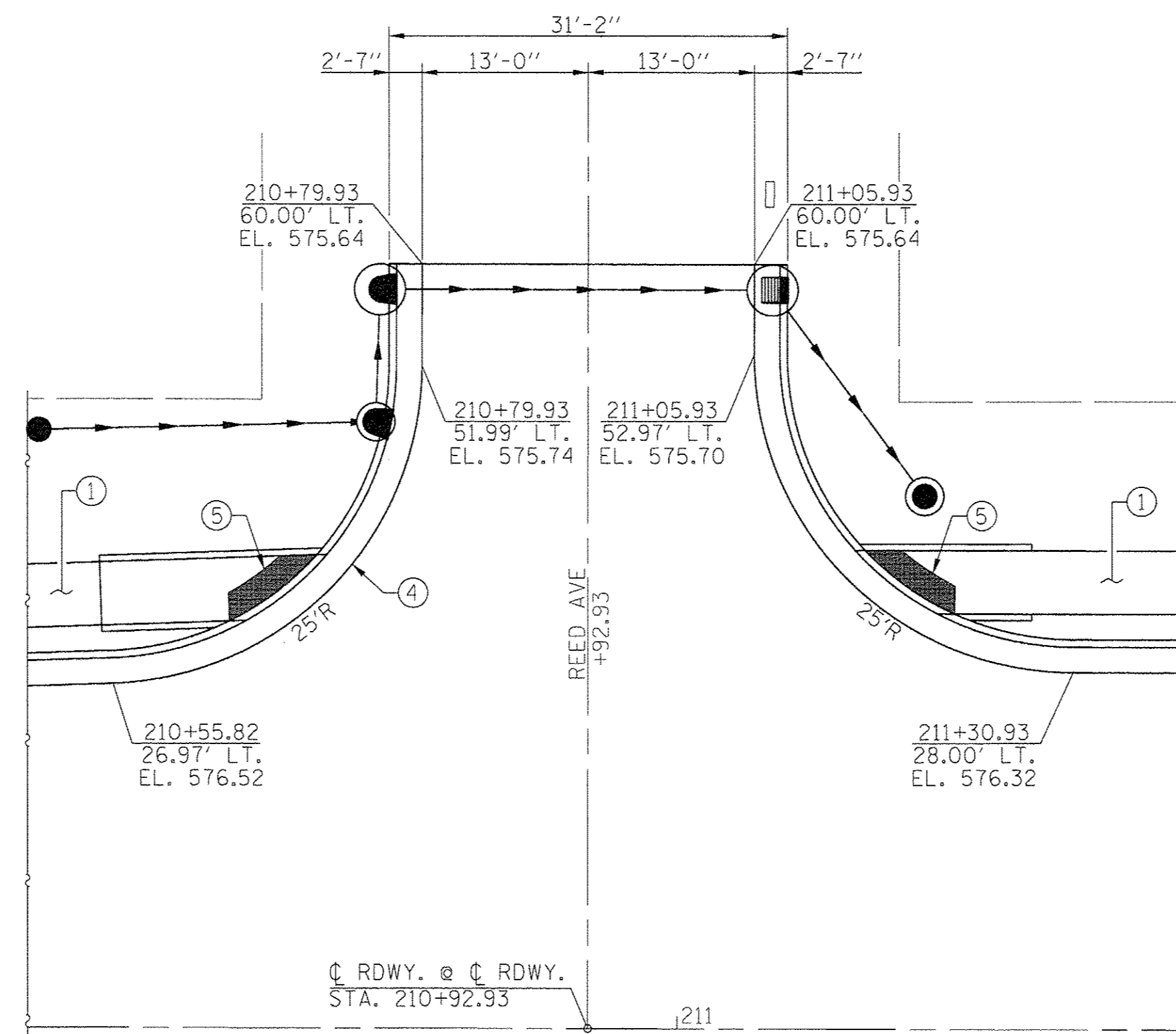
GEOTEXTILE RETAINING WALL			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 93600				
FED. ROAD DIST. NO.		[ILLINOIS] FED. AID PROJECT		

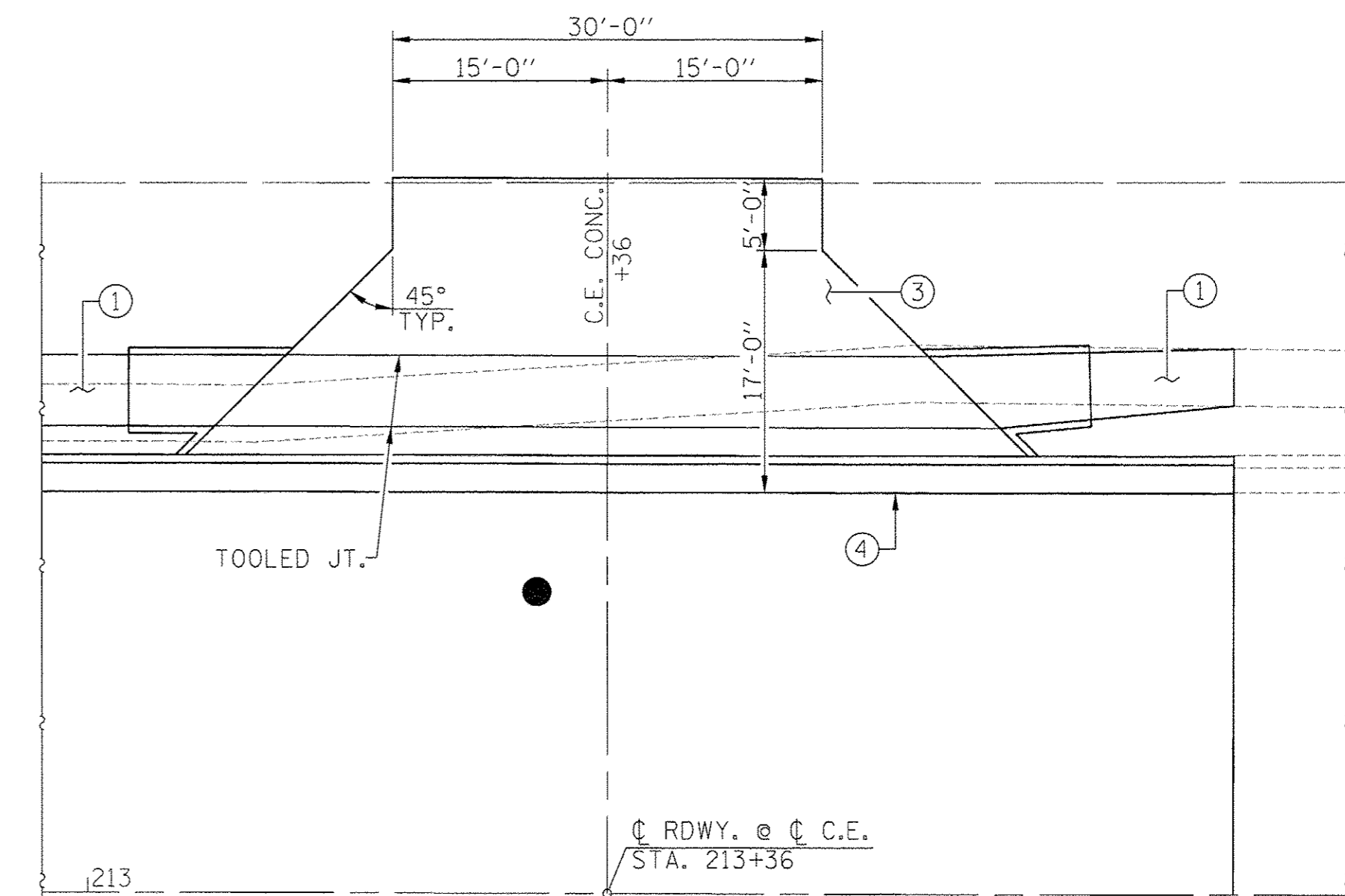




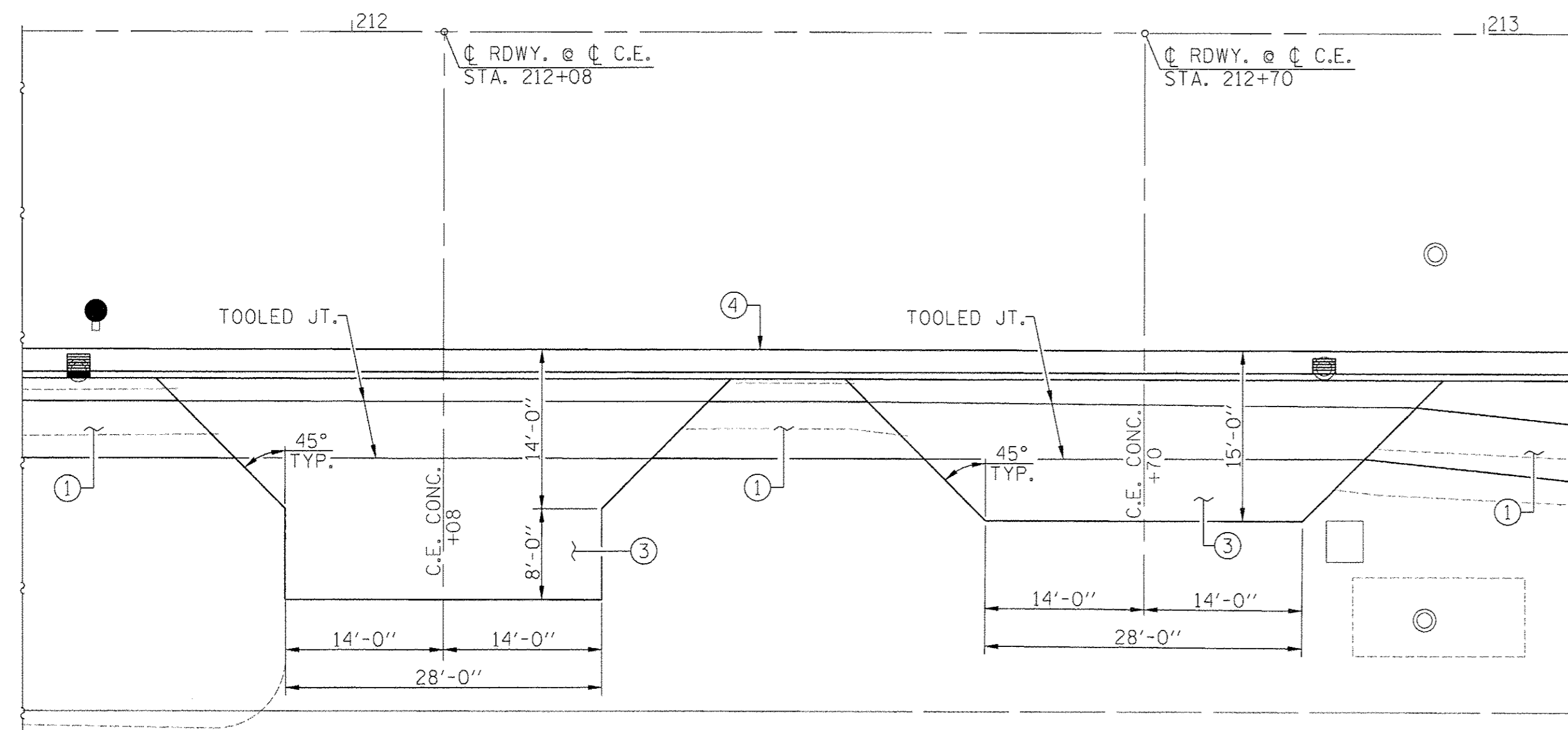
PLAN - PE 209+78



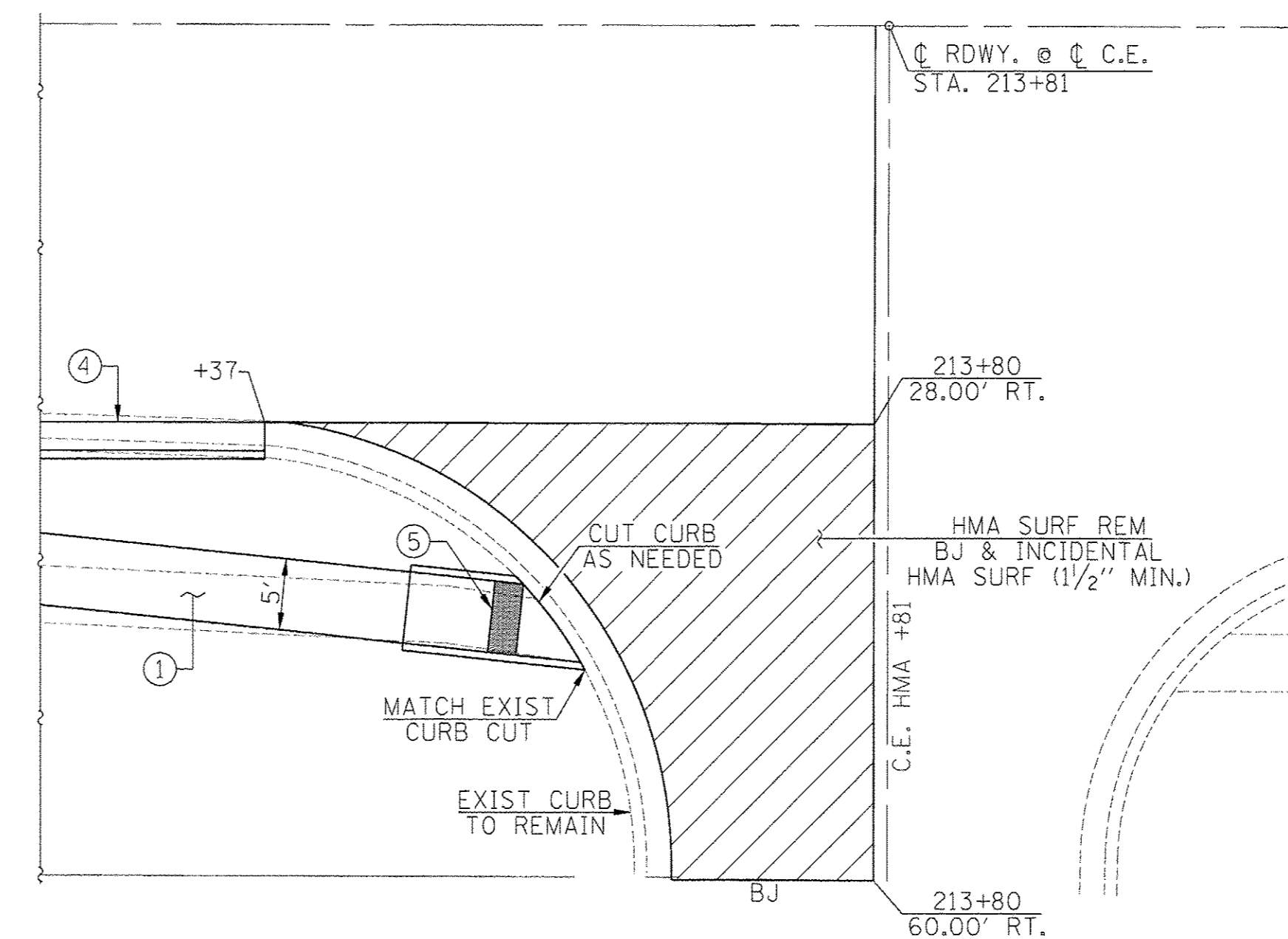
PLAN - REED AVE



PLAN - CE 213+36

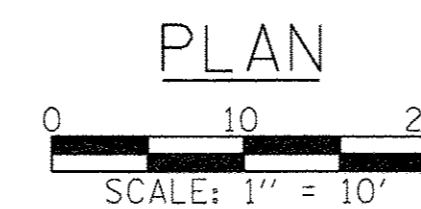



PLAN - CE 212+08 & CE 212+70

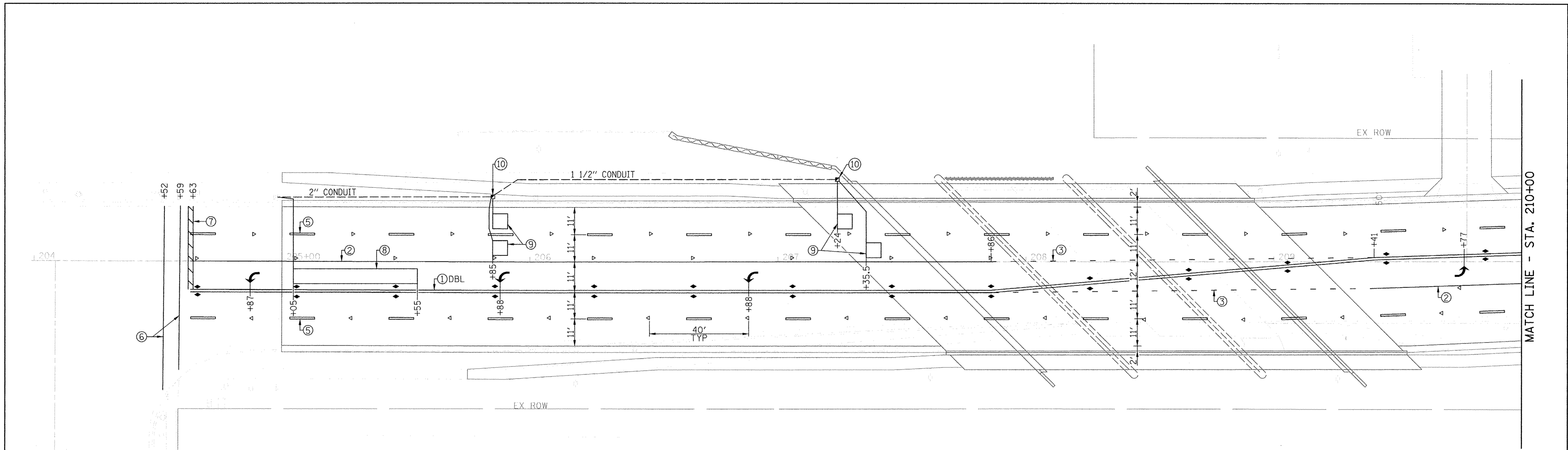


PLAN - CE 213+81

- ① PCC SIDEWALK, 4"
  - ② PCC DRIVEWAY PVMT, 6"
  - ③ PCC DRIVEWAY PVMT, 8"
  - ④ CCC&G TY B-6.24
  - ⑤ DETECTABLE WARNINGS
  - ⑥ 4" SUBBASE GRAN MATL, TY A
- NOTES: 1. DEPRESS CURB THROUGH ENTRANCES.  
2. MAXIMUM SLOPE FOR PCC DRIVEWAY PAVEMENT THROUGH SIDEWALK AREAS SHALL BE 2.0%.



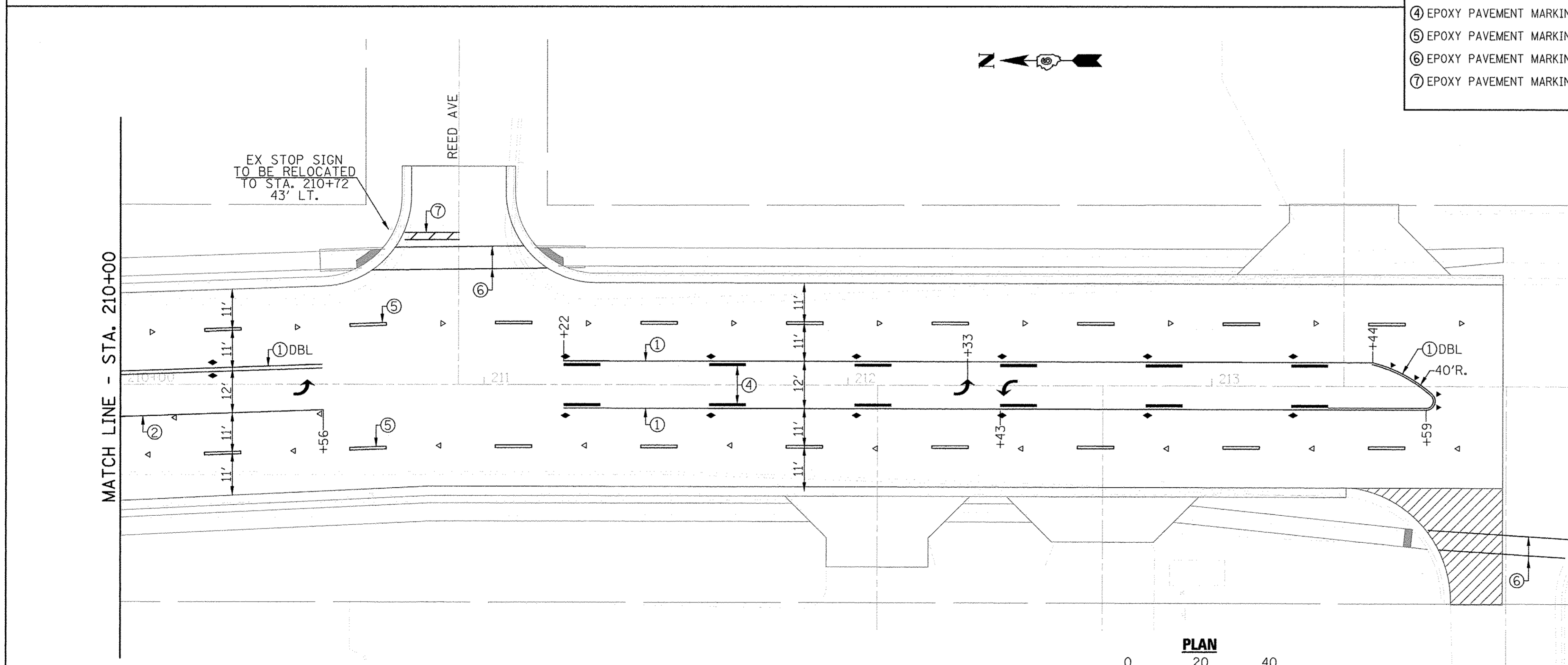
FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>ENTRANCE AND SIDEROAD DETAILS</b>		F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		SCALE: 1" = 10'	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	8006	10-00470-00-BR	SANGAMON	90 39
	PLOT DATE = #DATE#	CHECKED -	REVISED -						CONTRACT NO. <b>93600</b>			
		DATE -	REVISED -					FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



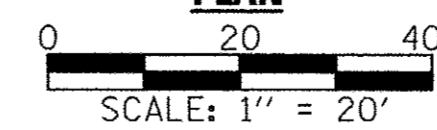
PLAN

LEGEND

- ① EPOXY PAVEMENT MARKING - LINE 5" (SOLID YELLOW)
- ② EPOXY PAVEMENT MARKING - LINE 5" (SOLID WHITE)
- ③ EPOXY PAVEMENT MARKING - LINE 5" (2' DASH, 6' SKIP, WHITE)
- ④ EPOXY PAVEMENT MARKING - LINE 5" (10' DASH, 30' SKIP, YELLOW)
- ⑤ EPOXY PAVEMENT MARKING - LINE 5" (10' DASH, 30' SKIP, WHITE)
- ⑥ EPOXY PAVEMENT MARKING - LINE 6" (SOLID WHITE)
- ⑦ EPOXY PAVEMENT MARKING - LINE 24" (SOLID WHITE)
- ⑧ DETECTOR LOOP, TYPE 1 (6' X 50')
- ⑨ DETECTOR LOOP, TYPE 1 (6' X 6')
- ⑩ HANDHOLE
- ↖ EPOXY PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE)
- ▲ RAISED REFLECTIVE PAVEMENT MARKER (2 WAY AMBER)
- ◄ RAISED REFLECTIVE PAVEMENT MARKER (1 WAY AMBER)
- ◄ RAISED REFLECTIVE PAVEMENT MARKER (1 WAY CRYSTAL)



PLAN



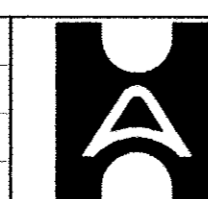
FINAL PAVEMENT MARKING ITEMS		
ITEM	QUANTITY	UNIT
EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS	110	SQ FT
EPOXY PAVEMENT MARKING - LINE 5"	2956	FOOT
EPOXY PAVEMENT MARKING - LINE 6"	300	FOOT
EPOXY PAVEMENT MARKING - LINE 24"	50	FOOT
RAISED REFLECTIVE PAVEMENT MARKER	104	EACH

FILE NAME =  
#FILEL\$

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

PAVEMENT MARKING PLAN

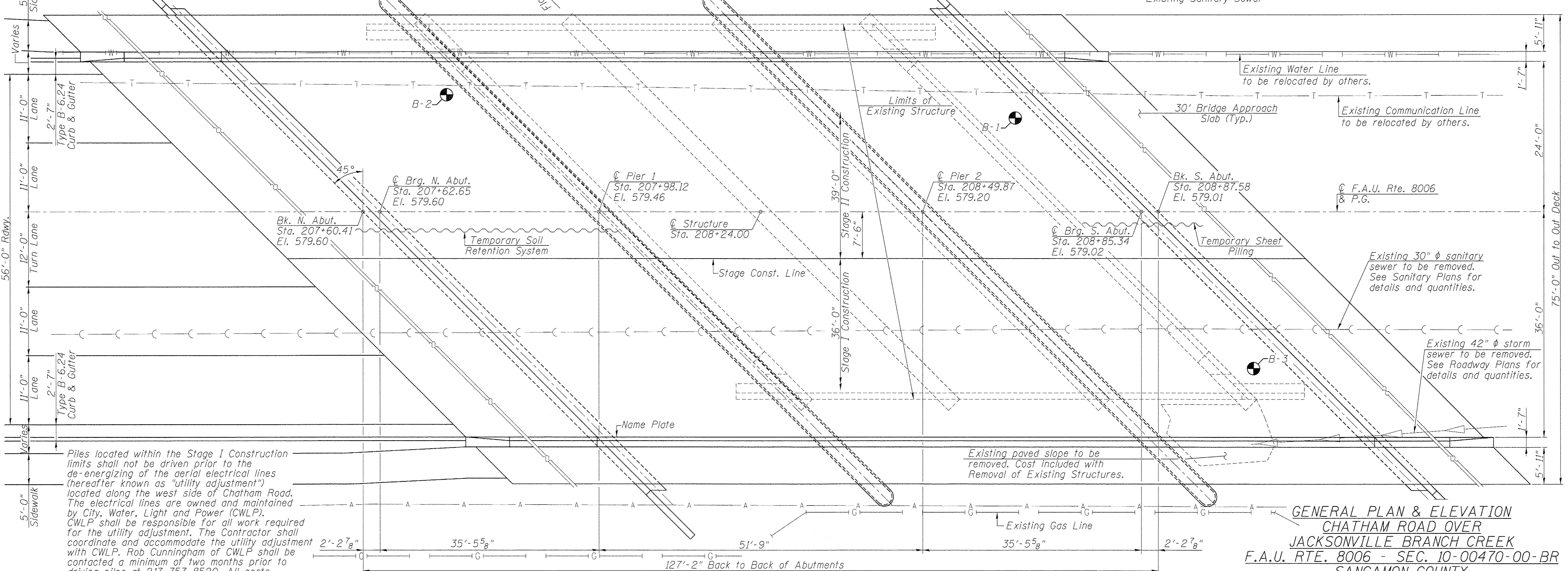
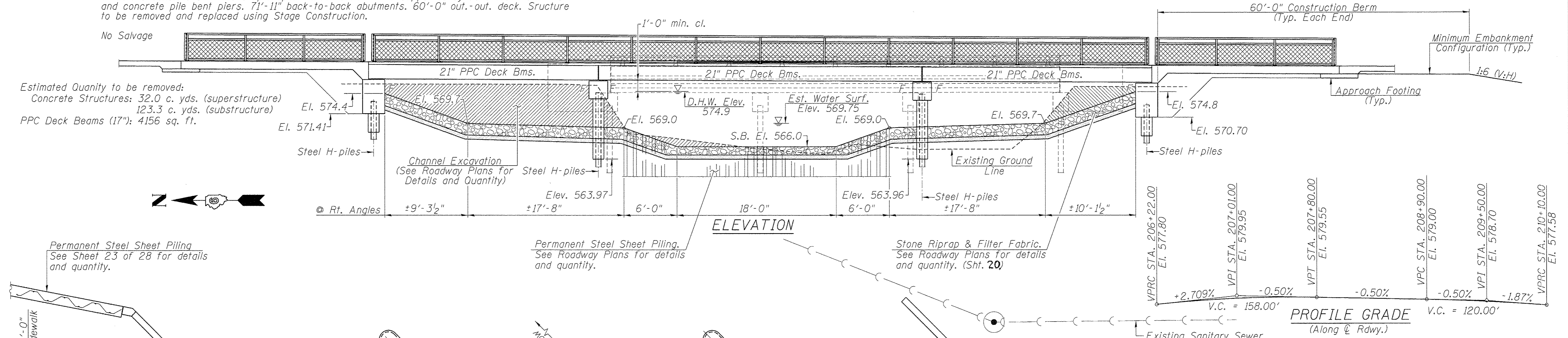
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	40
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 93600	




Bench Mark: "M" in Mueller on fire hydrant at N.E. corner of Chatham Rd. and Reed Ave. El. 577.55  
 Existing Structure: S.N. 084-3041 built in 1967 as F.A.S. Route 1639, Section 101-2 212-2CS at Sta. 208+36. Structure consists of three simple span P.P.C. deck beams supported by concrete abutments and concrete pile bent piers. 71'-11" back-to-back abutments. 60'-0" out-out deck. Structure to be removed and replaced using Stage Construction.  
 No Salvage

Estimated Quantity to be removed:  
 Concrete Structures: 32.0 c. yds. (superstructure)  
 123.3 c. yds. (substructure)  
 PPC Deck Beams (17"): 4156 sq. ft.



Piles located within the Stage I Construction limits shall not be driven prior to the de-energizing of the aerial electrical lines (hereafter known as "utility adjustment") located along the west side of Chatham Road. The electrical lines are owned and maintained by City, Water, Light and Power (CWLP). CWLP shall be responsible for all work required for the utility adjustment. The Contractor shall coordinate and accommodate the utility adjustment with CWLP. Rob Cunningham of CWLP shall be contacted a minimum of two months prior to driving piles at 217-757-8520. All costs associated with the utility adjustment shall not be paid for separately but shall be included in the cost of Driving Piles.

**GENERAL PLAN & ELEVATION  
 CHATHAM ROAD OVER  
 JACKSONVILLE BRANCH CREEK  
 F.A.U. RTE. 8006 - SEC. 10-00470-00-BR  
 SANGAMON COUNTY  
 STATION 208+24.00  
 STRUCTURE NO. 084-6019**

FILE NAME =	USER NAME =	DESIGNED -	REVIS	 <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>GENERAL PLAN &amp; ELEVATION</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVIS					8006	10-00470-00-BR	SANGAMON	90	41
		PLOT SCALE =	REVIS					CONTRACT NO. 9 3 6 0 0				
		PLOT DATE =	REVIS					ILLINOIS FED. AID PROJECT				
					SHEET NO. 1 OF 28 SHEETS							



**INDEX OF SHEETS**

- 1 - General Plan & Elevation
- 2 - General Data
- 3 - Stage Construction Details
- 4 - Temporary Concrete Barrier For Stage Construction
- 5 - Concrete Wearing Surface Elevations
- 6 - Top of N. Approach Slab Elevations
- 7 - Top of S. Approach Slab Elevations
- 8 - Superstructure
- 9 - 10 - Superstructure Details
- 11 - 12 - Bridge Approach Slab Details
- 13 - Bicycle Railing
- 14 - Bicycle Railing Details
- 15 - 21x36 PPC Deck Beam (Spans 1 & 3)
- 16 - 21x36 PPC Deck Beam Details (Spans 1 & 3)
- 17 - 21x36 PPC Deck Beam (Span 2)
- 18 - 21x36 PPC Deck Beam Details (Span 2)
- 19 - North Abutment
- 20 - South Abutment
- 21 - Pier 1
- 22 - Pier 2
- 23 - Permanent Sheet Pile Retaining Wall
- 24 - HP Pile Details
- 25 - Bar Splicer Assembly Details
- 26 - 28 - Boring Logs

**GENERAL NOTES**

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
3. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
4. The Contractor is advised that the existing PPC Deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.
5. If the Contractor's procedures for existing beam removal involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of Existing Structures.
6. The concrete for bridge decks finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along the centerline of bridge. The machine used for finishing shall be set parallel to the skew for striking off and screeding the concrete.
7. The Precast Prestressed Concrete Deck Beams shall not be released from the fabricator until they have attained 60 days of age or older.
8. Test Piles shall be driven to 110% of the Nominal Required Bearing, in a production location prior to ordering the remainder of the piles.
9. This project has been authorized for construction under IDNR Permit # DS2012021.
10. Slip forming of the parapets is not allowed.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		115	115
Concrete Structures	Cu. Yd.		481.7	481.7
Concrete Superstructure	Cu. Yd.	294.3		294.3
Cofferdam Excavation	Cu. Yd.		306	306
Bridge Deck Grooving	Sq. Yd.	1188		1188
Concrete Encasement	Cu. Yd.		9.8	9.8
Protective Coat	Sq. Yd.	1633		1633
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	9307		9307
Concrete Wearing Surface, 5"	Sq. Yd.	1037		1037
Reinforcement Bars, Epoxy Coated	Pound	88240	39280	127520
Bar Splicers	Each	263	176	439
Bicycle Railing	Foot	369		369
Parapet Railing	Foot	344		344
Furnishing Steel Piles HP 12 x 63	Foot		3726	3726
Driving Piles	Foot		3726	3726
Test Pile Steel HP 12 x 63	Each		4	4
Temporary Sheet Piling	Sq. Ft.		372	372
Name Plates	Each	1		1
Temporary Soil Retention System	Sq. Ft.		365	365
Cofferdam (Type 1), Location 1	Each		1	1
Cofferdam (Type 1), Location 2	Each		1	1
Permanent Steel Sheet Piling	Sq. Ft.		1846	1846

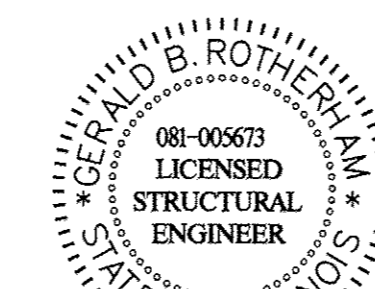
**WATERWAY INFORMATION**

Flood	Freq. Yr.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.		
		Exist.	Prop.		Exist.	Prop.	Exist.	Prop.	
	10	1290	185	394	573.8	0.7	-0.1	574.5	573.7
Design	30	1712	215	482	574.9	0.6	-0.1	575.5	574.8
Base	100	2220	215/188	563	575.8	0.6	0	576.4	575.8
Overtop Existing									
Overtop Proposed									
Max. Calc.	500	2900	215/398	611	577.0	0.5	0.2	577.3	577.2

**DESIGN SCOUR ELEVATION TABLE**

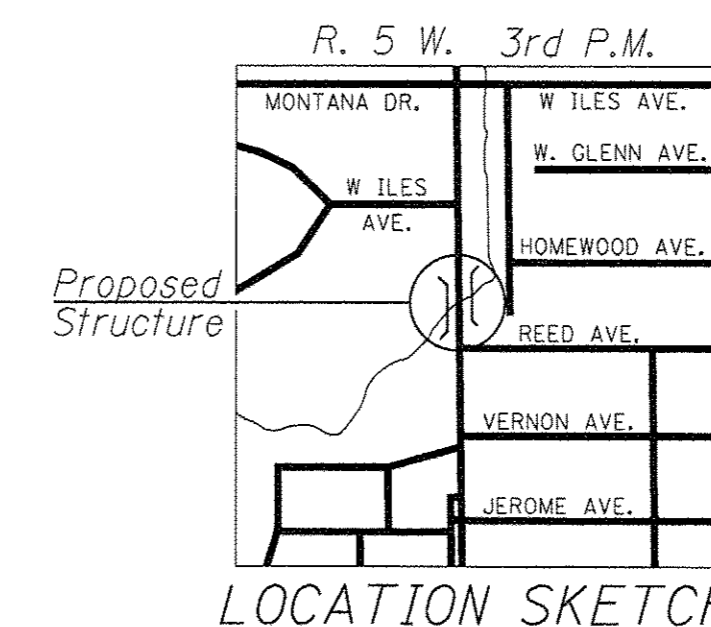
Design Scour Elevation (ft.)	N. Abut.	Pier 1	Pier 2	S. Abut.
	571.41	561.0	561.0	570.70

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "A.A.S.H.T.O. LRFD Bridge Design Specifications".



*Gerald B. Rotherham* 3/5/2013  
Expiration 11/30/2014

JACKSONVILLE BRANCH  
BUILT 20 BY  
CITY OF SPRINGFIELD  
F.A.U. RTE. 8006 SECTION 10-00470-00-BR  
STATION 208+24.00  
STR. NO. 084-6019  
LOADING HL-93  
**NAME PLATE**  
See Std. 515001



**LOADING HL-93**  
Allow 50#/sq. ft. for future wearing surface.

**DESIGN SPECIFICATIONS**  
2010 AASHTO LRFD Bridge Design Specifications, 5th Edition, with 2010 Interims

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

**PRECAST PRESTRESSED UNITS**  
f'c = 6,000 psi  
f'ci = 5,000 psi  
fpu = 270,000 psi (1/2" φ low lax strands)  
fpbt = 201,960 psi (1/2" φ low lax strands)

**SEISMIC DATA**  
Seismic Performance Zone (SPZ) = 2  
Design Spectral Acceleration at 1.0 sec. (S<sub>D1</sub>) = 0.168 g  
Design Spectral Acceleration at 0.2 sec. (S<sub>D5</sub>) = 0.288 g  
Soil Site Class = D

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -

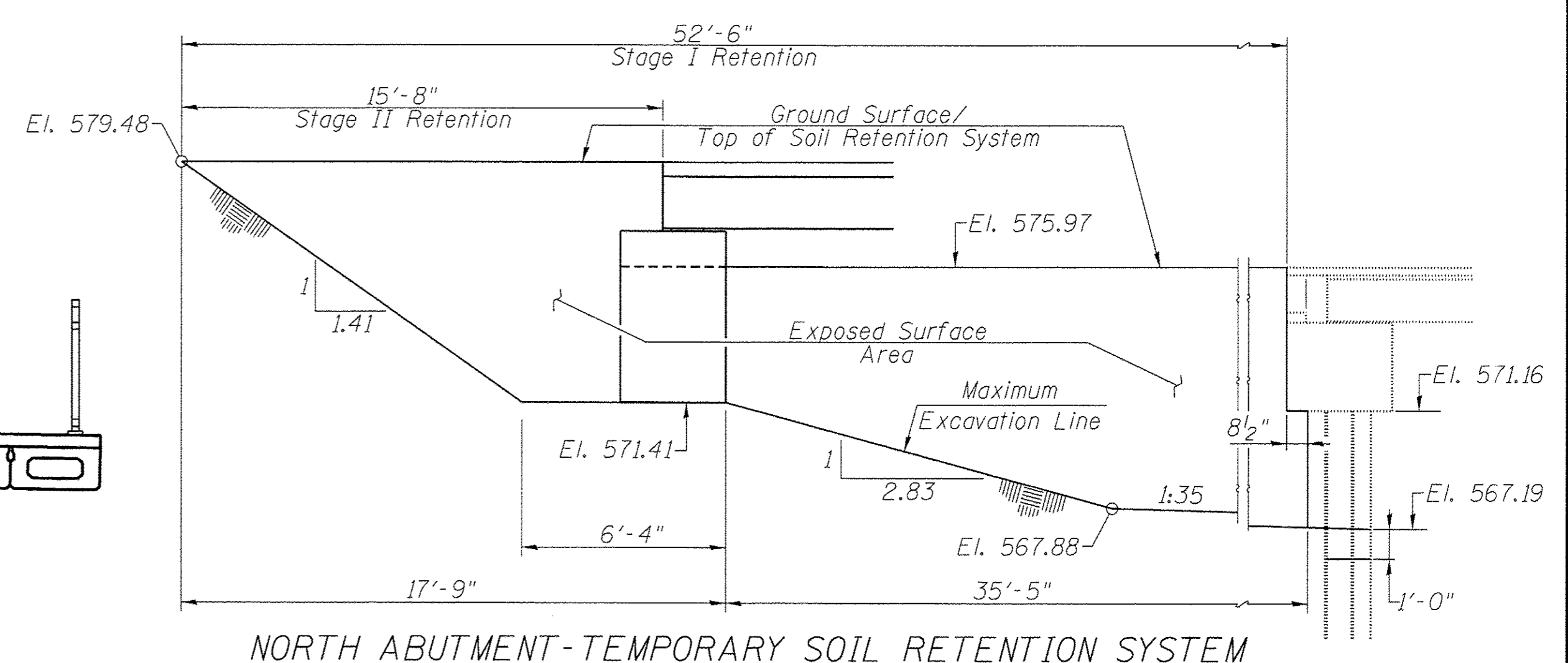
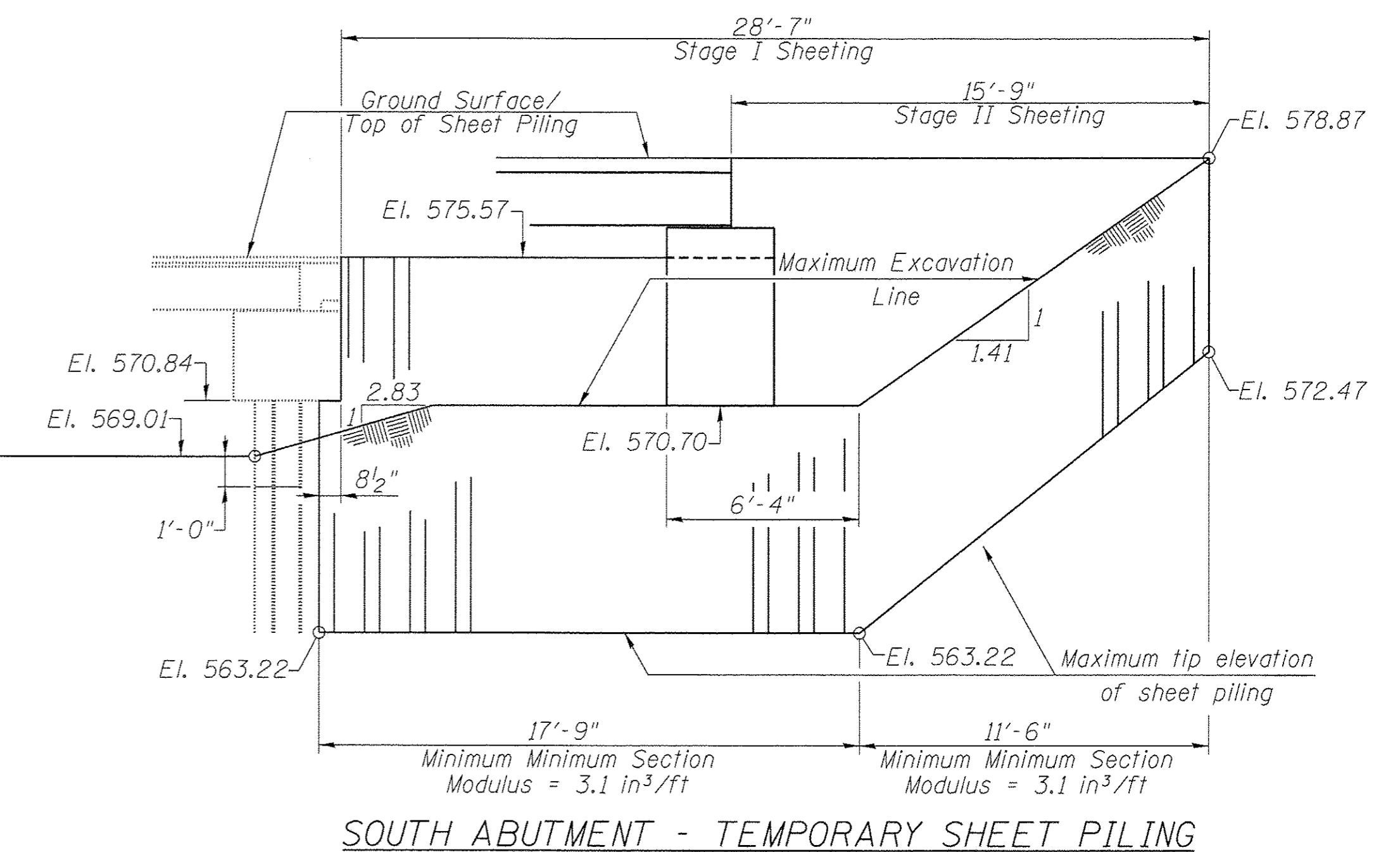
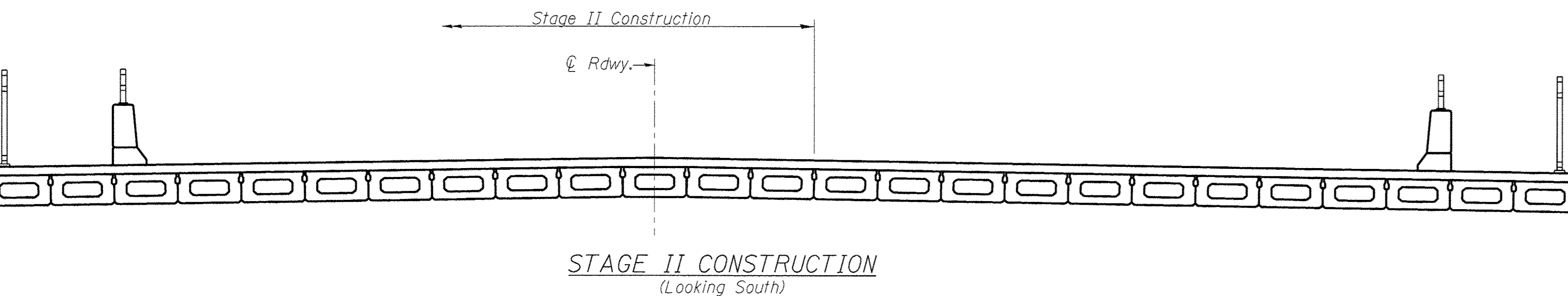
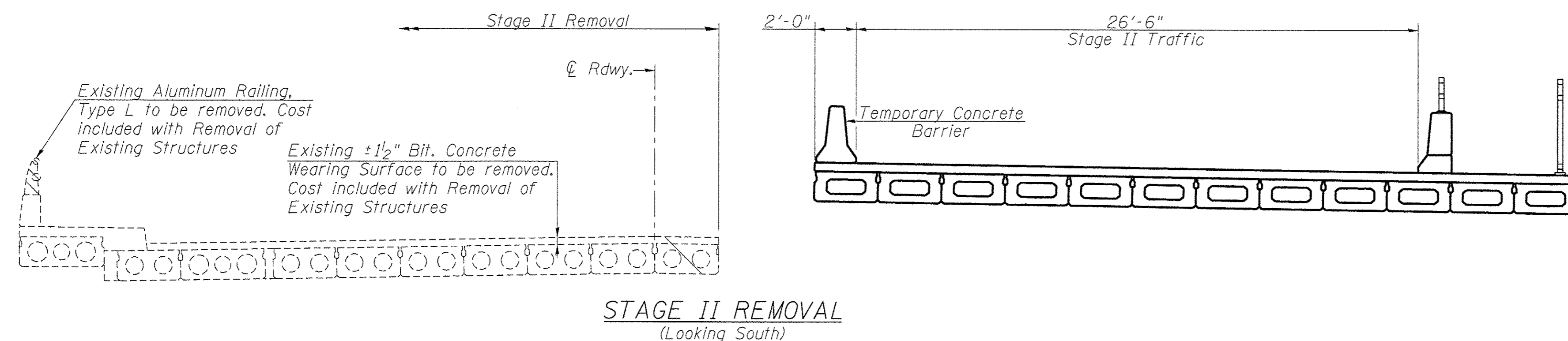
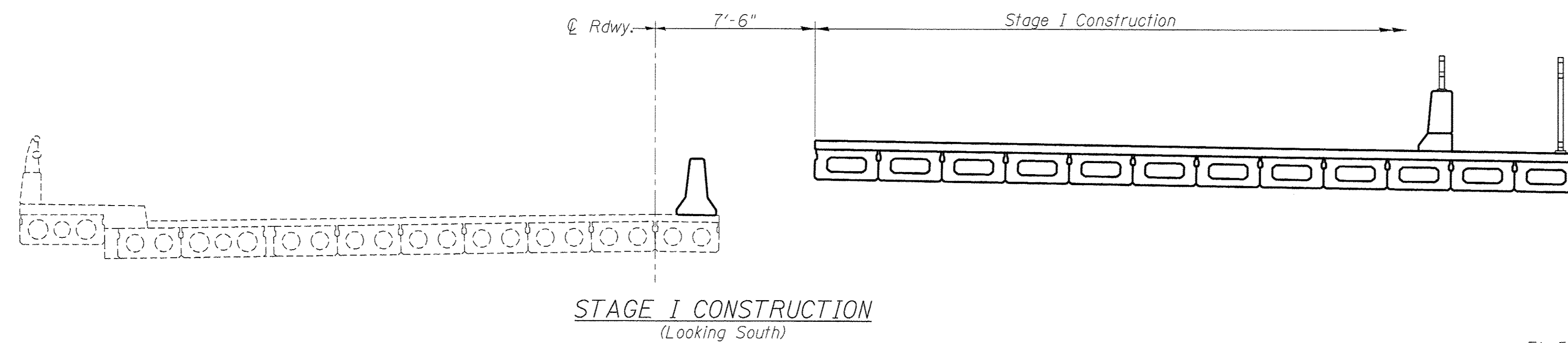
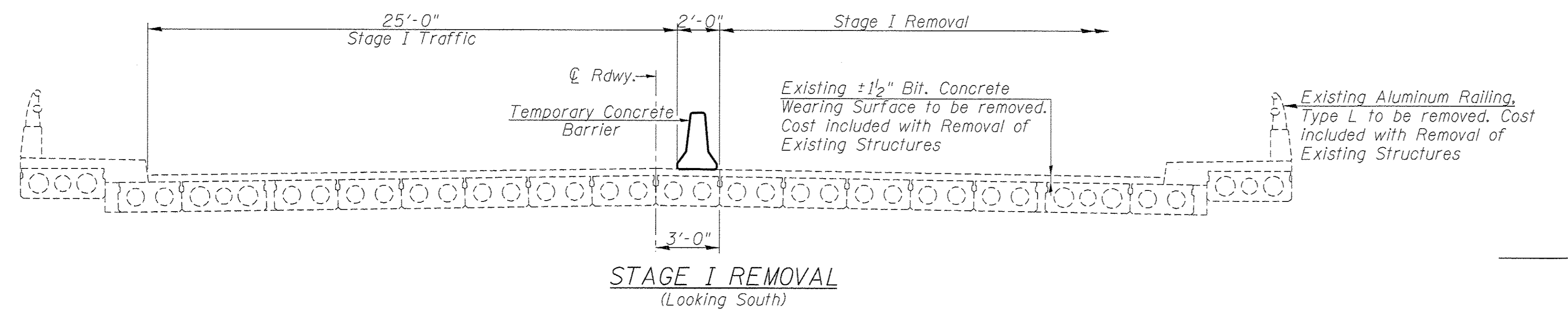
**Allen Henderson & Associates, Inc.**  
Civil and Structural Engineers Springfield, IL  
62703 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

GENERAL DATA	
<b>STRUCTURE NO. 084-6019</b>	
SHEET NO. 2 OF 28 SHEETS	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	42


CONTRACT NO. **93600**  
ILLINOIS FED. AID PROJECT



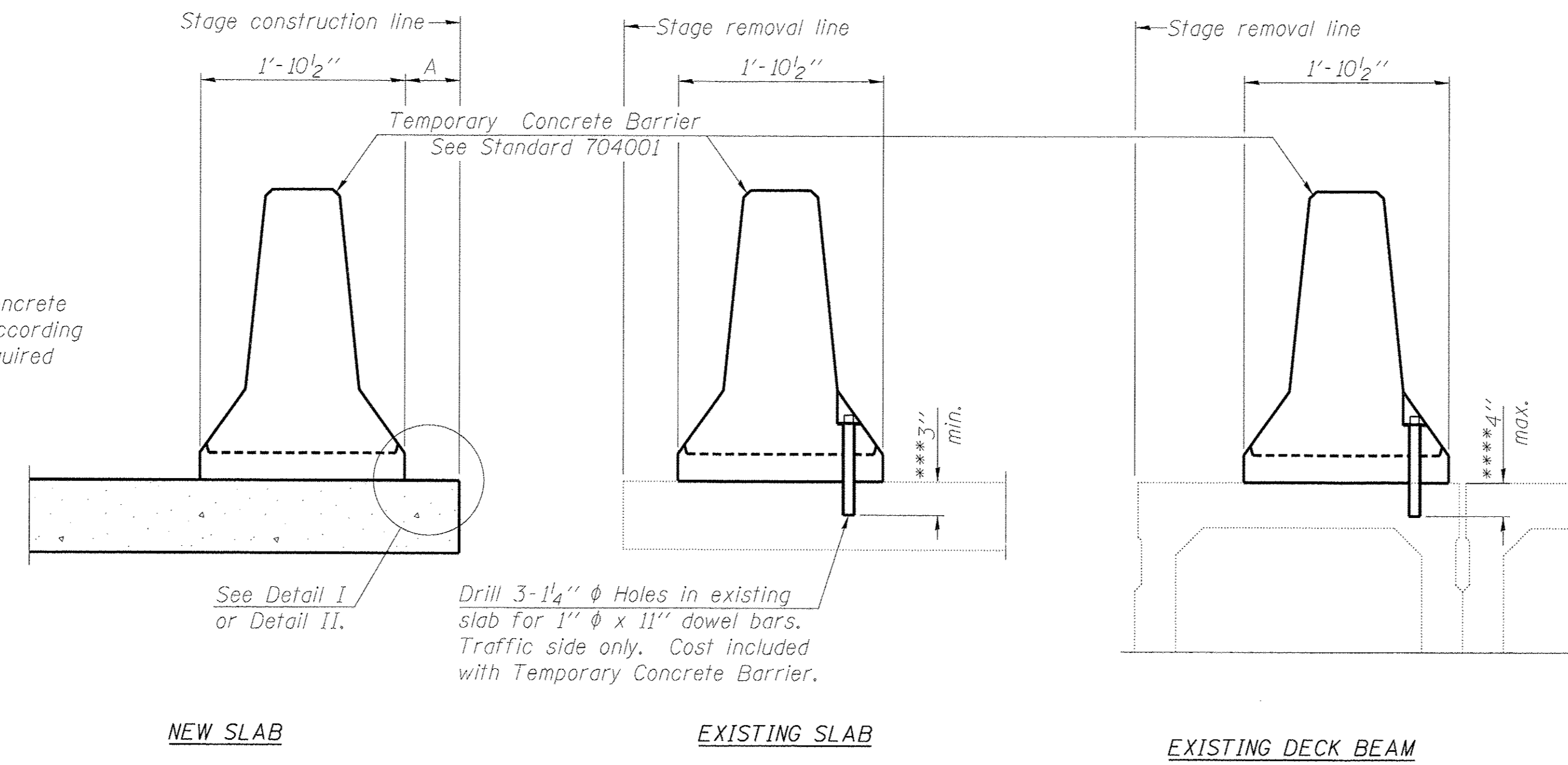


A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

Notes:  
 For quantity of temporary concrete barrier see Roadway Plans.  
 For details of temporary concrete barrier see sheet 4 of 28.  
 Hatched area indicates Removal of Existing Structures.

FILE NAME =	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>STAGE CONSTRUCTION DETAILS</b> <b>STRUCTURE NO. 084-6019</b> SHEET NO. 3 OF 28 SHEETS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE =	DRAWN -	REVISED -	8006				10-00470-00-BR	SANGAMON	90	43	
PLOT DATE =	CHECKED -	REVISED -	CONTRACT NO. 99600				ILLINOIS FED. AID PROJECT				

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



**SECTIONS THRU SLAB OR DECK BEAM**

**NOTES**

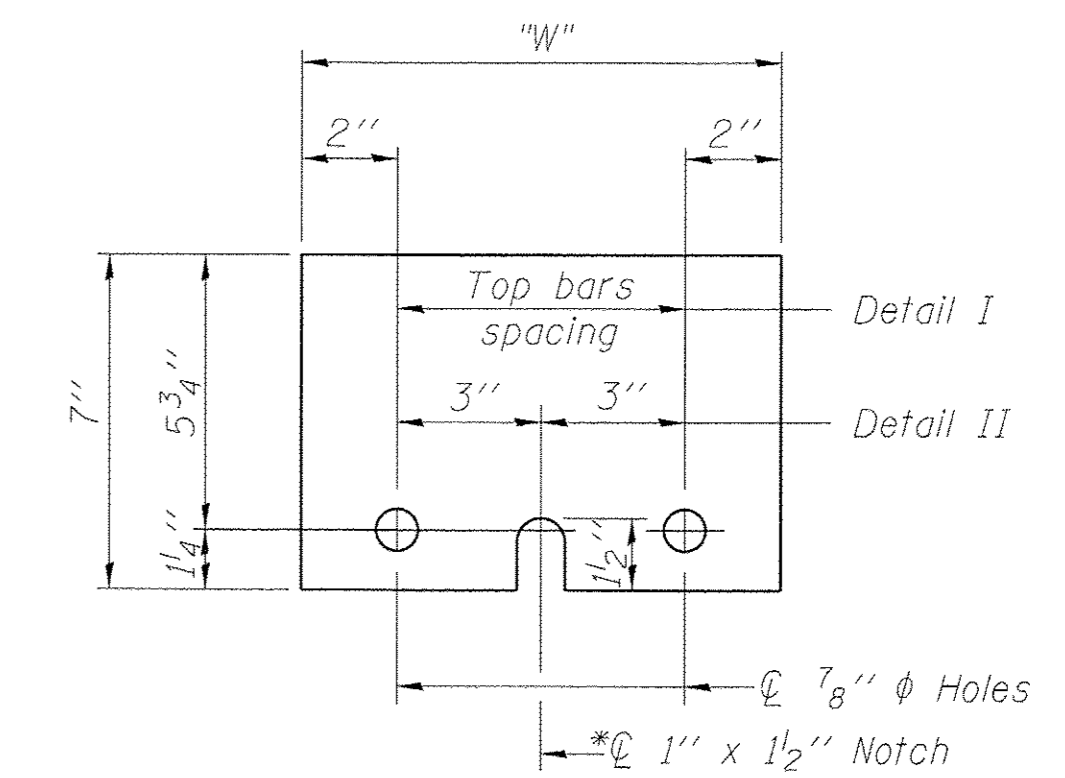
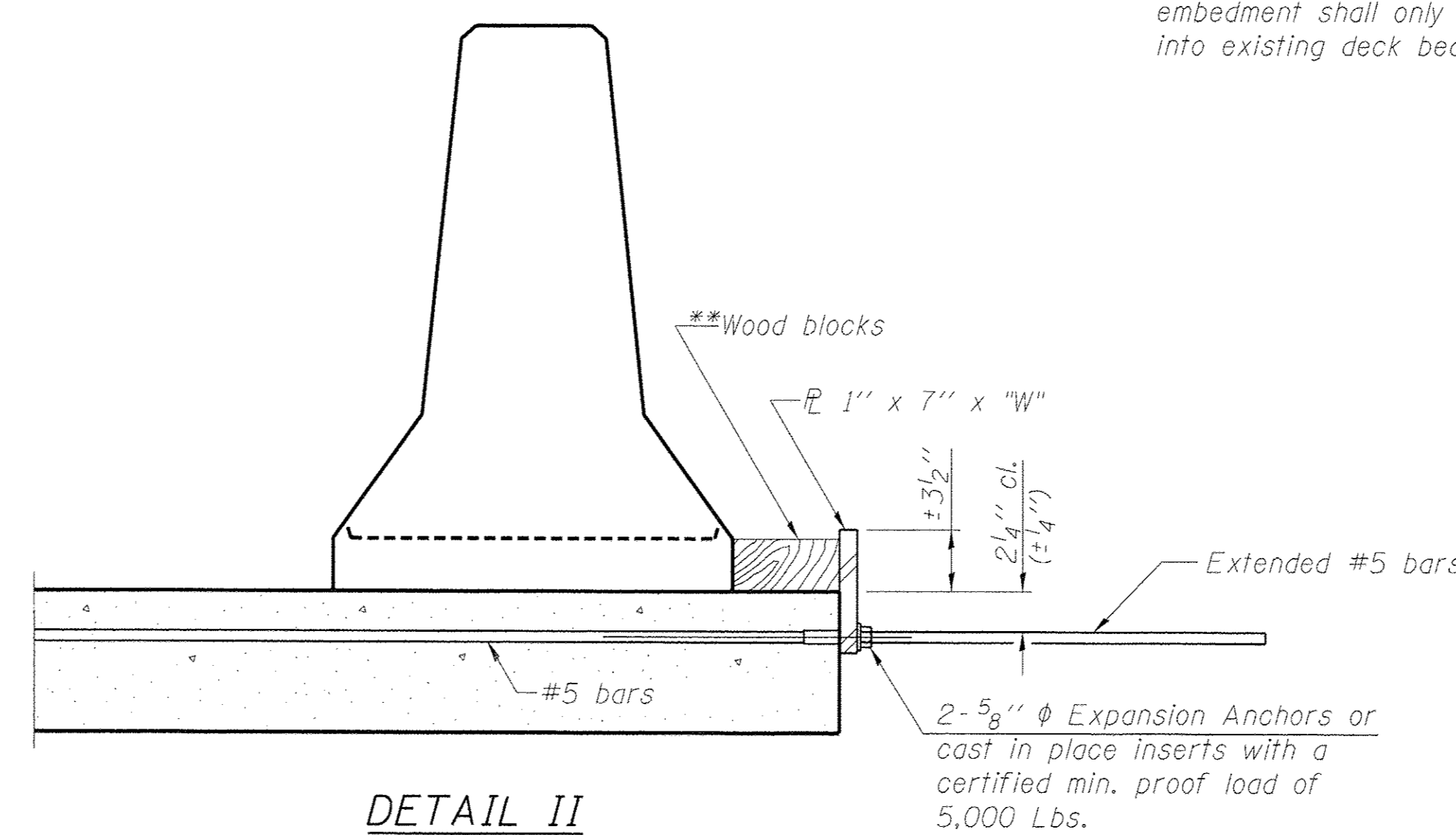
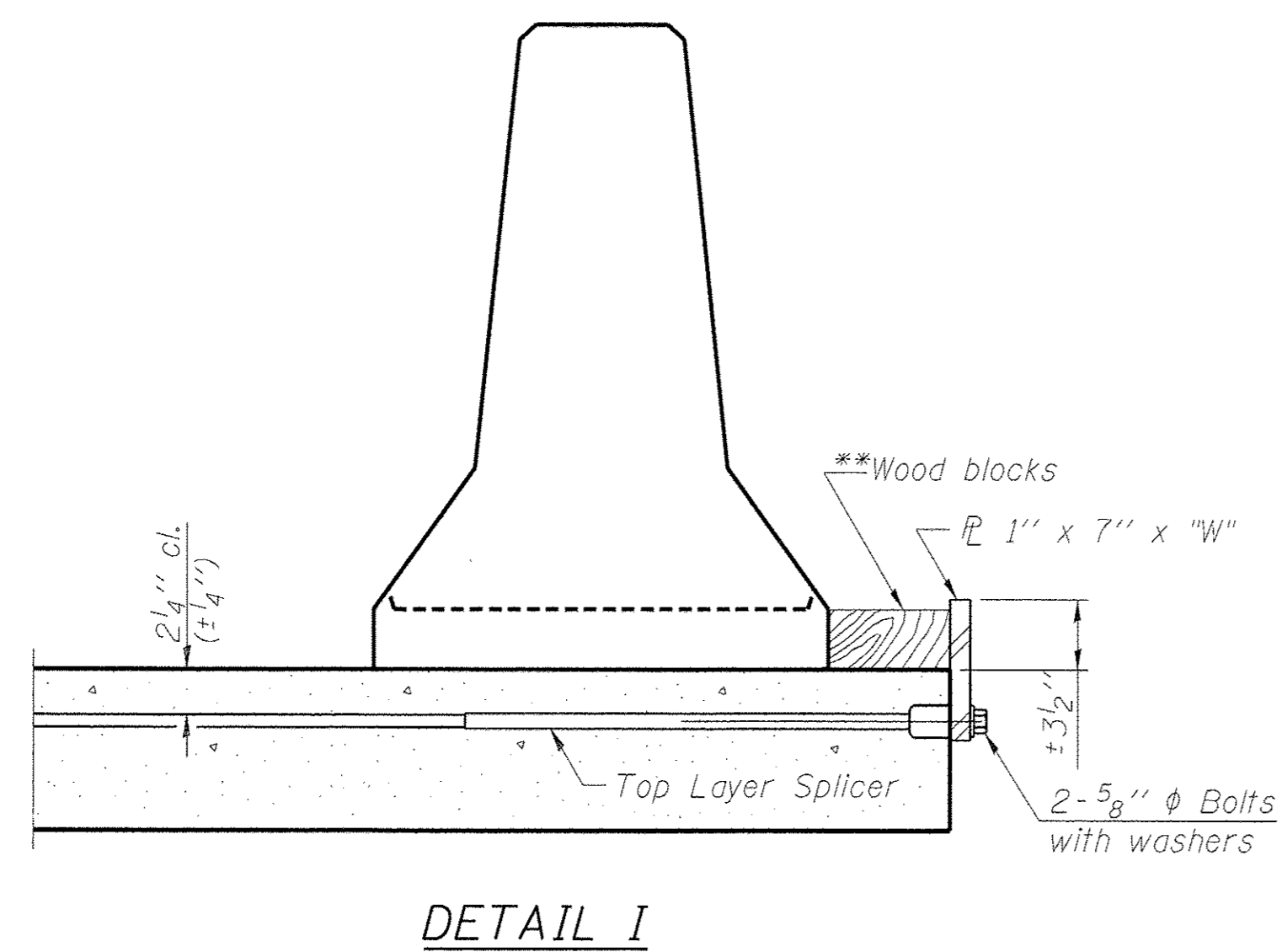
**Detail I - With Bar Splicer or Couplers:**  
Connect one (1) 1" x 7" x "W" steel  $\bar{R}$  to the top layer of couplers with 2-5/8"  $\phi$  bolts screwed to coupler at approximate  $\bar{C}$  of each barrier panel.

**Detail II - With Extended Reinforcement Bars:**  
Connect one (1) 1" x 7" x "W" steel  $\bar{R}$  to the concrete slab or concrete wearing surface with 2-5/8"  $\phi$  Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate  $\bar{C}$  of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

\*\*\* Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

\*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



**STEEL RETAINER  $\bar{R}$  1" x 7" x "W"**

\* Required only with Detail II

\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

R-27

7-1-10

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -



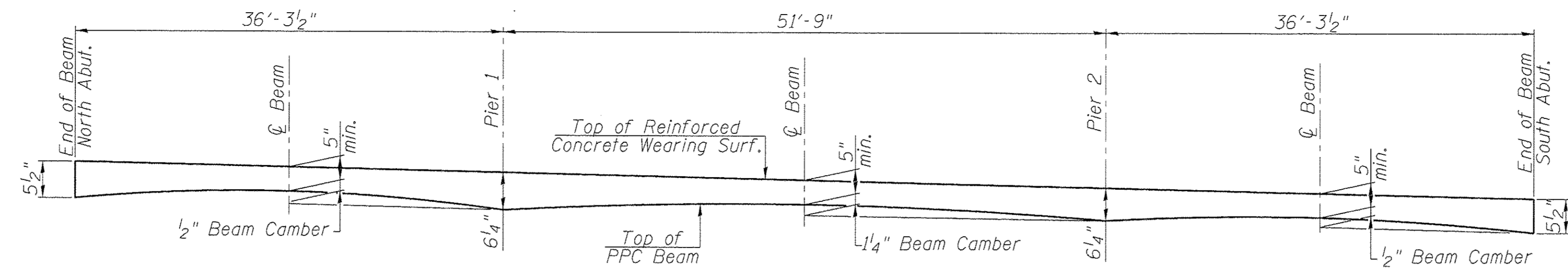
**Allen Henderson & Associates, Inc.**  
Civil and Structural Engineers Springfield, IL.  
62703 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION**  
**STRUCTURE NO. 084-6019**

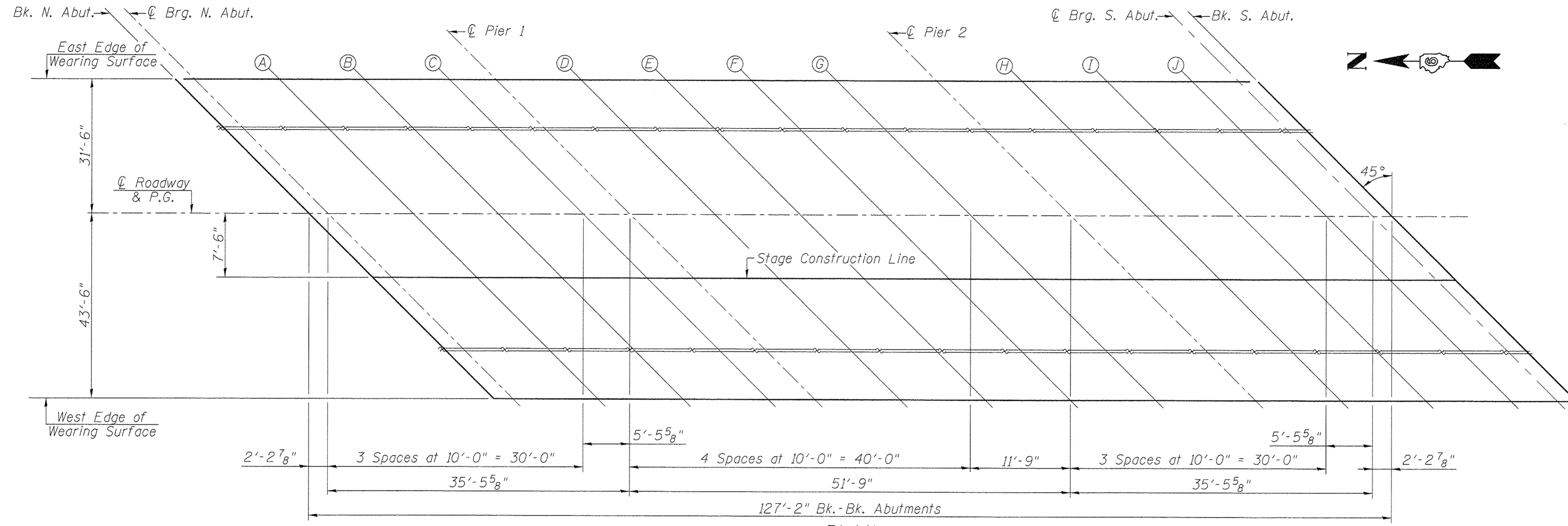
SHEET NO. 4 OF 28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	44
			CONTRACT NO. 93600	
ILLINOIS FED. AID PROJECT				





**CONCRETE WEARING SURFACE  
LONGITUDINAL CROSS SECTION**  
(Looking East)



**PLAN**

**EAST EDGE OF WEARING SURFACE**

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut	207+28.91	-31.50	579.04
☉ Brg. N. Abut.	207+31.15	-31.50	579.06
A	207+41.15	-31.50	579.09
B	207+51.15	-31.50	579.11
C	207+61.15	-31.50	579.11
☉ Pier 1	207+66.62	-31.50	579.10
D	207+76.62	-31.50	579.07
E	207+86.62	-31.50	579.02
F	207+96.62	-31.50	578.97
G	208+06.62	-31.50	578.92
☉ Pier 2	208+18.37	-31.50	578.87
H	208+28.37	-31.50	578.82
I	208+38.37	-31.50	578.77
J	208+48.37	-31.50	578.72
☉ Brg. S. Abut.	208+53.84	-31.50	578.69
Bk. S. Abut.	208+56.08	-31.50	578.68

**☉ ROADWAY & P.G.**

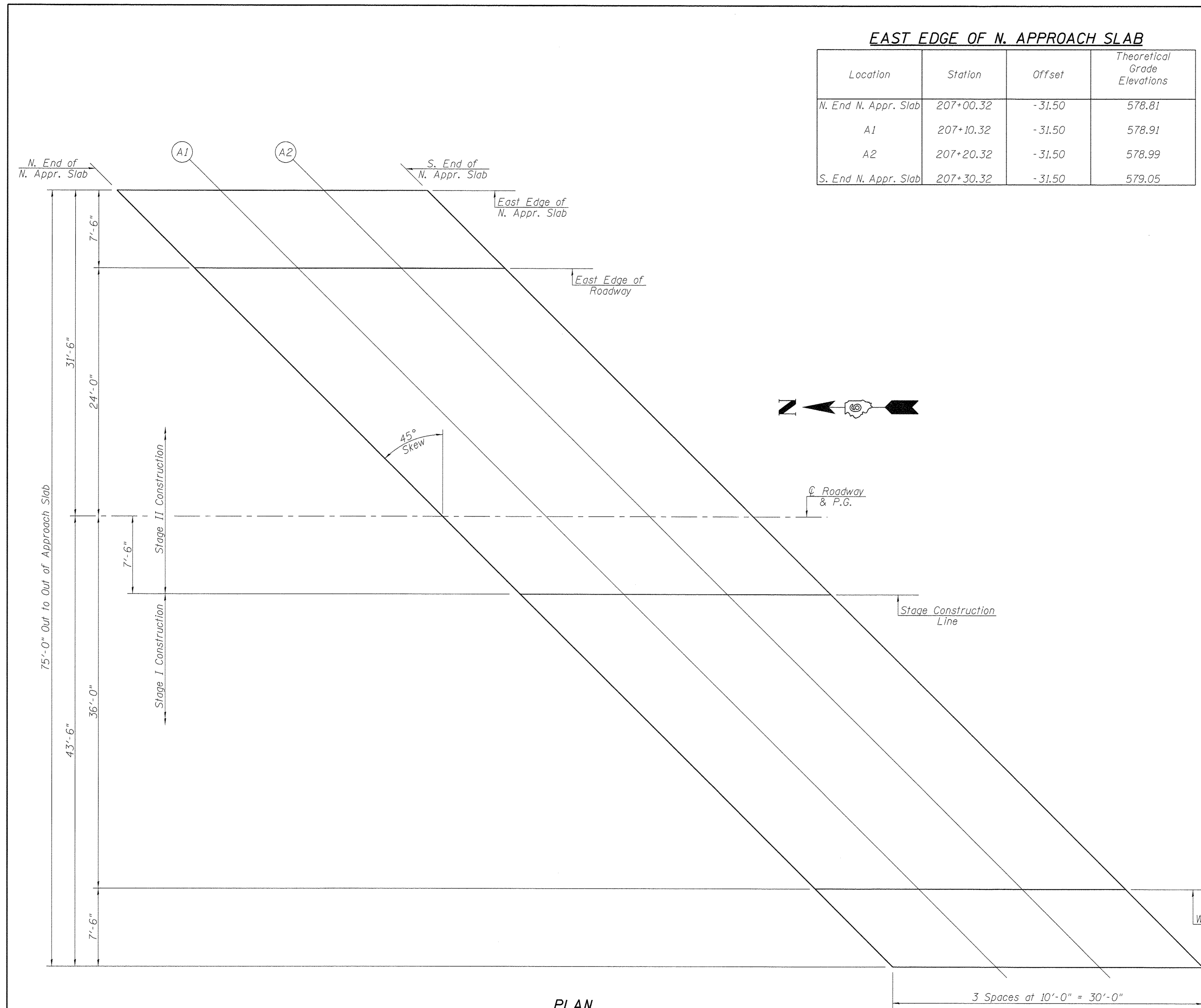
Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut	207+60.41	0.00	579.60
☉ Brg. N. Abut.	207+62.65	0.00	579.60
A	207+72.65	0.00	579.58
B	207+82.65	0.00	579.54
C	207+92.65	0.00	579.49
☉ Pier 1	207+98.12	0.00	579.46
D	208+08.12	0.00	579.41
E	208+18.12	0.00	579.36
F	208+28.12	0.00	579.31
G	208+38.12	0.00	579.26
☉ Pier 2	208+49.87	0.00	579.20
H	208+59.87	0.00	579.15
I	208+69.87	0.00	579.10
J	208+79.87	0.00	579.05
☉ Brg. S. Abut.	208+85.34	0.00	579.02
Bk. S. Abut.	208+87.58	0.00	579.01

**STAGE CONSTRUCTION LINE**

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut	207+67.91	7.50	579.47
☉ Brg. N. Abut.	207+70.15	7.50	579.47
A	207+80.15	7.50	579.43
B	207+90.15	7.50	579.38
C	208+00.15	7.50	579.33
☉ Pier 1	208+05.62	7.50	579.30
D	208+15.62	7.50	579.25
E	208+25.62	7.50	579.20
F	208+35.62	7.50	579.15
G	208+45.62	7.50	579.10
☉ Pier 2	208+57.37	7.50	579.05
H	208+67.37	7.50	579.00
I	208+77.37	7.50	578.95
J	208+87.37	7.50	578.90
☉ Brg. S. Abut.	208+92.84	7.50	578.87
Bk. S. Abut.	208+95.08	7.50	578.86

**WEST EDGE OF WEARING SURFACE**

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut	208+03.91	43.50	578.75
☉ Brg. N. Abut.	208+06.15	43.50	578.74
A	208+16.15	43.50	578.69
B	208+26.15	43.50	578.64
C	208+36.15	43.50	578.59
☉ Pier 1	208+41.62	43.50	578.56
D	208+51.62	43.50	578.51
E	208+61.62	43.50	578.46
F	208+71.62	43.50	578.41
G	208+81.62	43.50	578.36
☉ Pier 2	208+93.37	43.50	578.30
H	209+03.37	43.50	578.24
I	209+13.37	43.50	578.17
J	209+23.37	43.50	578.09
☉ Brg. S. Abut.	209+28.84	43.50	578.04
Bk. S. Abut.	209+31.08	43.50	578.02



**EAST EDGE OF N. APPROACH SLAB**

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Slab	207+00.32	-31.50	578.81
A1	207+10.32	-31.50	578.91
A2	207+20.32	-31.50	578.99
S. End N. Appr. Slab	207+30.32	-31.50	579.05

**EAST EDGE OF ROADWAY**

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Slab	207+07.82	-24.00	579.00
A1	207+17.82	-24.00	579.09
A2	207+27.82	-24.00	579.16
S. End N. Appr. Slab	207+37.82	-24.00	579.20

**☉ ROADWAY & P.G.**

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Slab	207+31.82	0.00	579.55
A1	207+41.82	0.00	579.59
A2	207+51.82	0.00	579.61
S. End N. Appr. Slab	207+61.82	0.00	579.60

**STAGE CONSTRUCTION LINE**

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Slab	207+39.32	7.50	579.46
A1	207+49.32	7.50	579.49
A2	207+59.32	7.50	579.49
S. End N. Appr. Slab	207+69.32	7.50	579.47


**WEST EDGE OF ROADWAY**

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Slab	207+67.82	36.00	579.03
A1	207+77.82	36.00	578.99
A2	207+87.82	36.00	578.95
S. End N. Appr. Slab	207+97.82	36.00	578.90

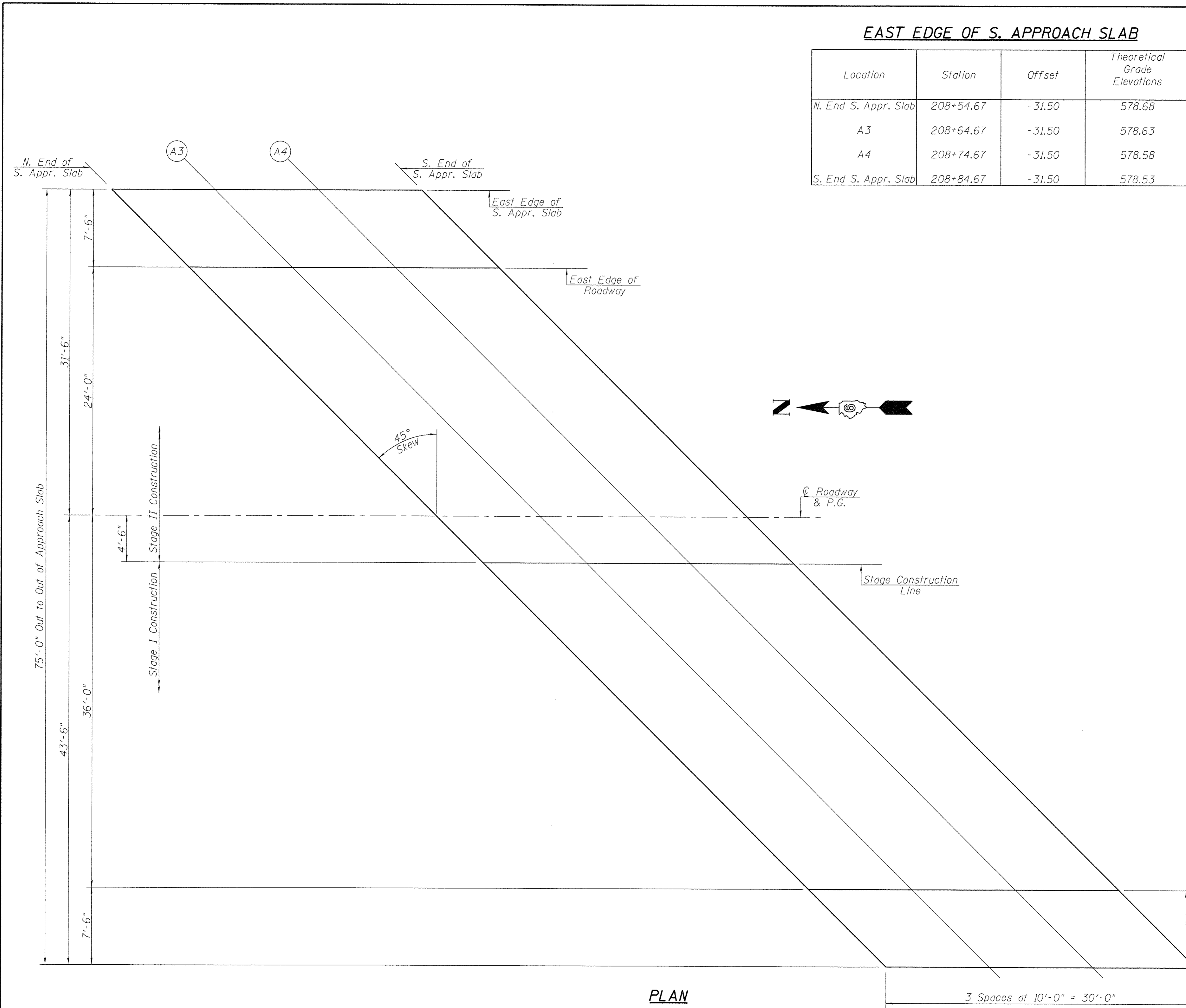
**WEST EDGE OF N. APPROACH SLAB**

Location	Station	Offset	Theoretical Grade Elevations
N. End N. Appr. Slab	207+75.32	43.50	578.89
A1	207+85.32	43.50	578.84
A2	207+95.32	43.50	578.79
S. End N. Appr. Slab	208+05.32	43.50	578.74

**PLAN**

FILE NAME =	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>TOP OF NORTH APPROACH SLAB ELEVATIONS</b> <b>STRUCTURE NO. 084-6019</b> SHEET NO. 6 OF 28 SHEETS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE =	DRAWN -	REVISED -	8006				10-00470-00-BR	SANGAMON	90	46	
PLOT DATE =	CHECKED -	REVISED -	CONTRACT NO. 9360								
ILLINOIS FED. AID PROJECT											





**EAST EDGE OF S. APPROACH SLAB**

Location	Station	Offset	Theoretical Grade Elevations
N. End S. Appr. Slab	208+54.67	-31.50	578.68
A3	208+64.67	-31.50	578.63
A4	208+74.67	-31.50	578.58
S. End S. Appr. Slab	208+84.67	-31.50	578.53

**EAST EDGE OF ROADWAY**

Location	Station	Offset	Theoretical Grade Elevations
N. End S. Appr. Slab	208+62.17	-24.00	578.76
A3	208+72.17	-24.00	578.71
A4	208+82.17	-24.00	578.66
S. End S. Appr. Slab	208+92.17	-24.00	578.61

**☉ ROADWAY & P.G.**

Location	Station	Offset	Theoretical Grade Elevations
N. End S. Appr. Slab	208+86.17	0.00	579.02
A3	208+96.17	0.00	578.98
A4	209+06.17	0.00	578.91
S. End S. Appr. Slab	209+16.17	0.00	578.83

**STAGE CONSTRUCTION LINE**

Location	Station	Offset	Theoretical Grade Elevations
N. End S. Appr. Slab	208+93.67	7.50	578.86
A3	209+03.67	7.50	578.80
A4	209+13.67	7.50	578.73
S. End S. Appr. Slab	209+23.67	7.50	578.65

**WEST EDGE OF ROADWAY**

Location	Station	Offset	Theoretical Grade Elevations
N. End S. Appr. Slab	209+22.17	36.00	578.22
A3	209+32.17	36.00	578.13
A4	209+42.17	36.00	578.02
S. End S. Appr. Slab	209+52.17	36.00	577.91

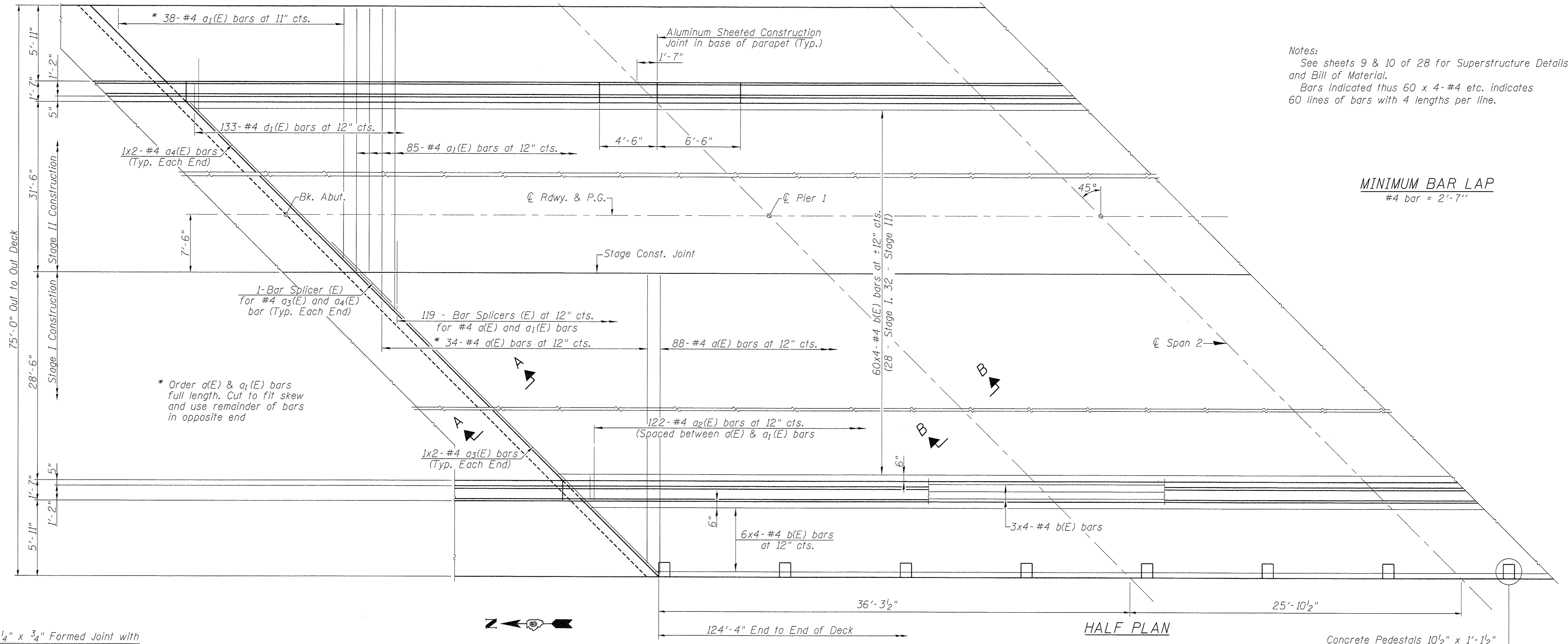
**WEST EDGE OF S. APPROACH SLAB**

Location	Station	Offset	Theoretical Grade Elevations
N. End S. Appr. Slab	209+29.67	43.50	578.03
A3	209+39.67	43.50	577.93
A4	209+49.67	43.50	577.82
S. End S. Appr. Slab	209+59.67	43.50	577.69

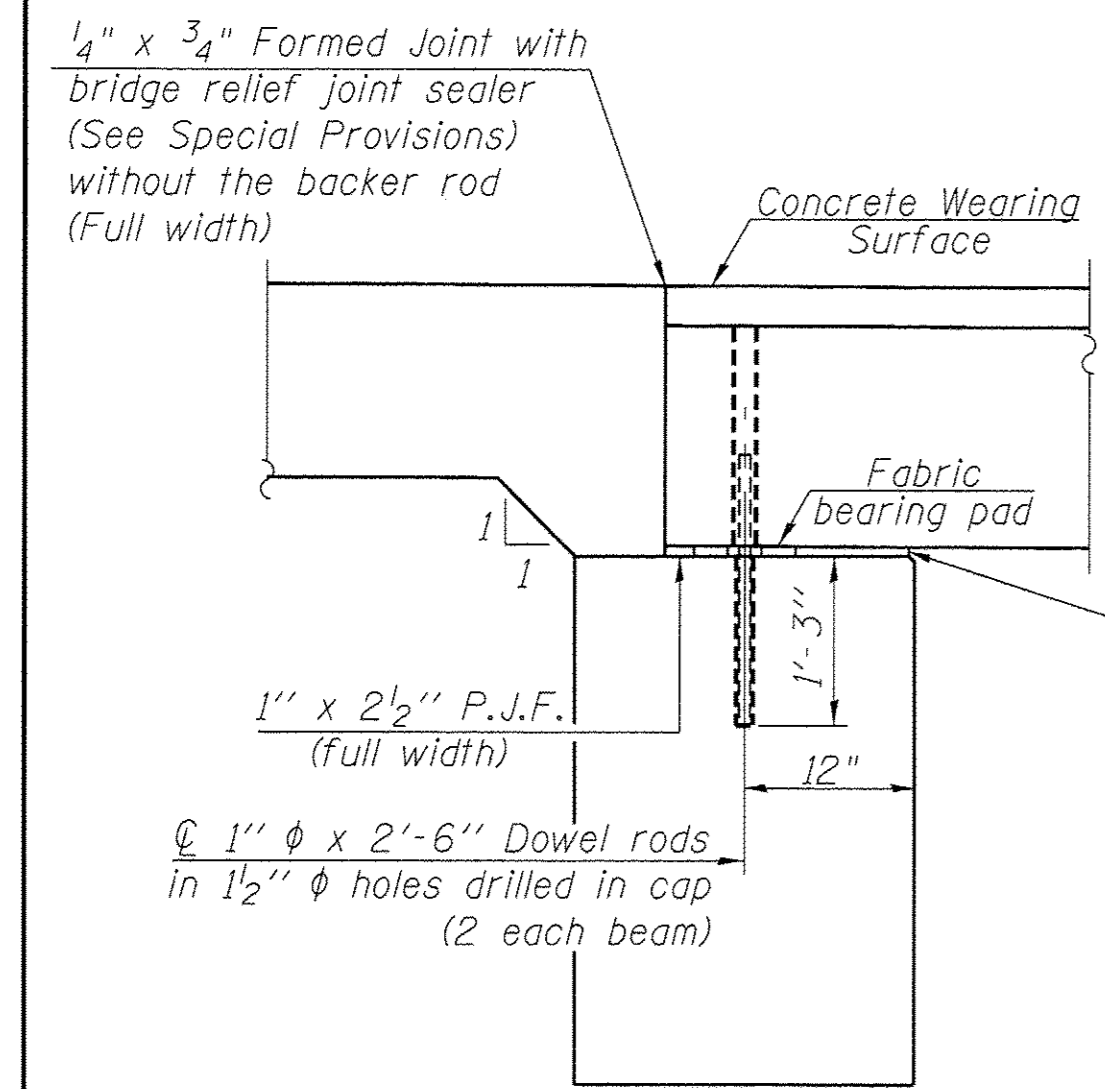
**PLAN**

Notes:  
 See sheets 9 & 10 of 28 for Superstructure Details and Bill of Material.  
 Bars indicated thus 60 x 4-#4 etc. indicates 60 lines of bars with 4 lengths per line.

**MINIMUM BAR LAP**  
 #4 bar = 2'-7"

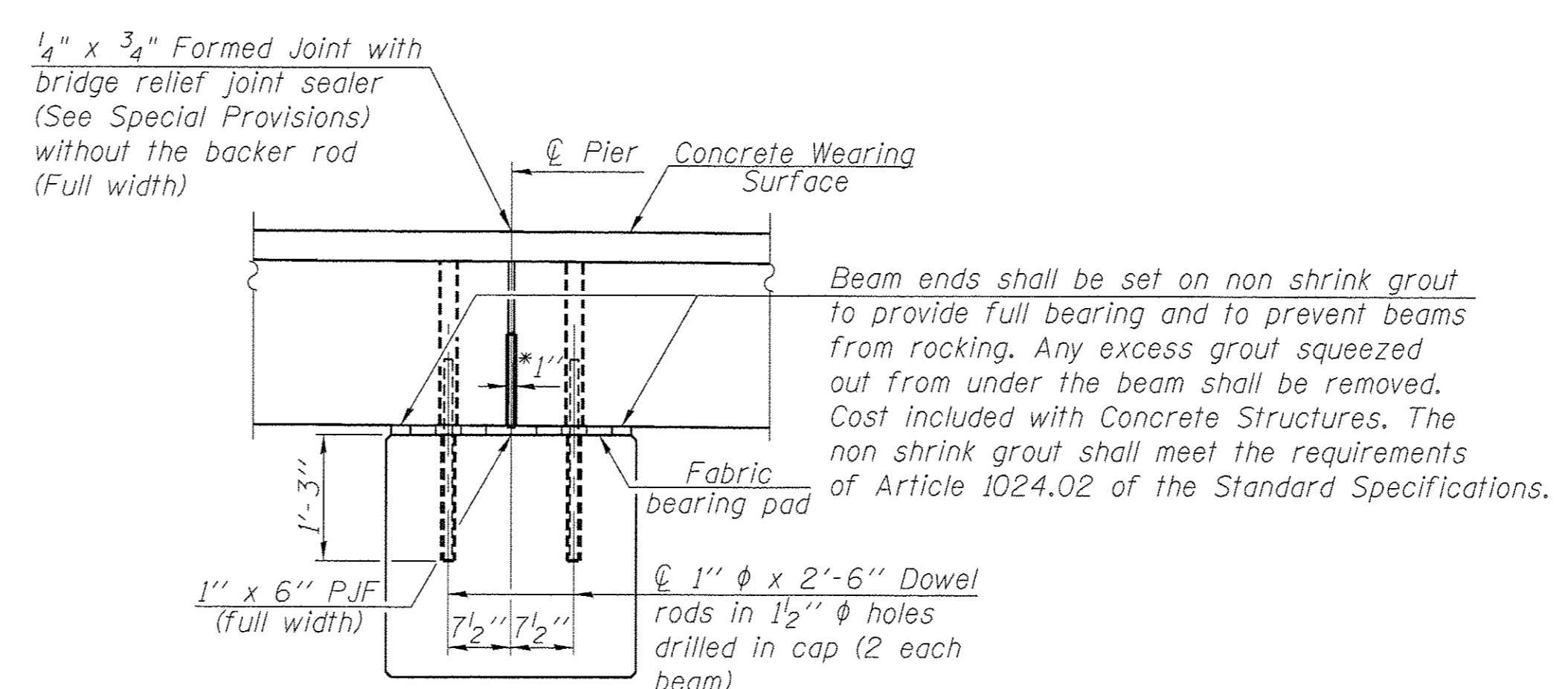


\* Order a(E) & a<sub>1</sub>(E) bars full length. Cut to fit skew and use remainder of bars in opposite end



**SECTION A-A**  
 (Dimensions are at Rt. L's)

Notes:  
 All concrete wearing surfaces shall be placed prior to casting approach slab.  
 See sheet of fabric bearing pad details.



**SECTION B-B**  
 (Dimensions are at Rt. L's)

\*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

Concrete Pedestals 10 1/2" x 1'-1 1/2"  
 poured monolithically with concrete wearing surface. (Typ. Each Side)  
 See Sheets 10 of 28 for details and spacing.

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

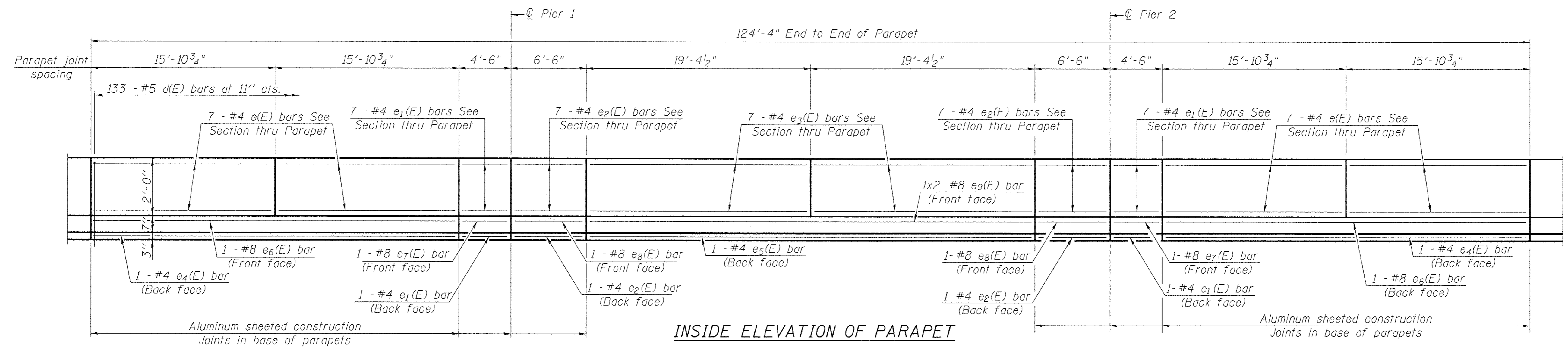
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL.  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

**SUPERSTRUCTURE**  
**STRUCTURE NO. 084-6019**

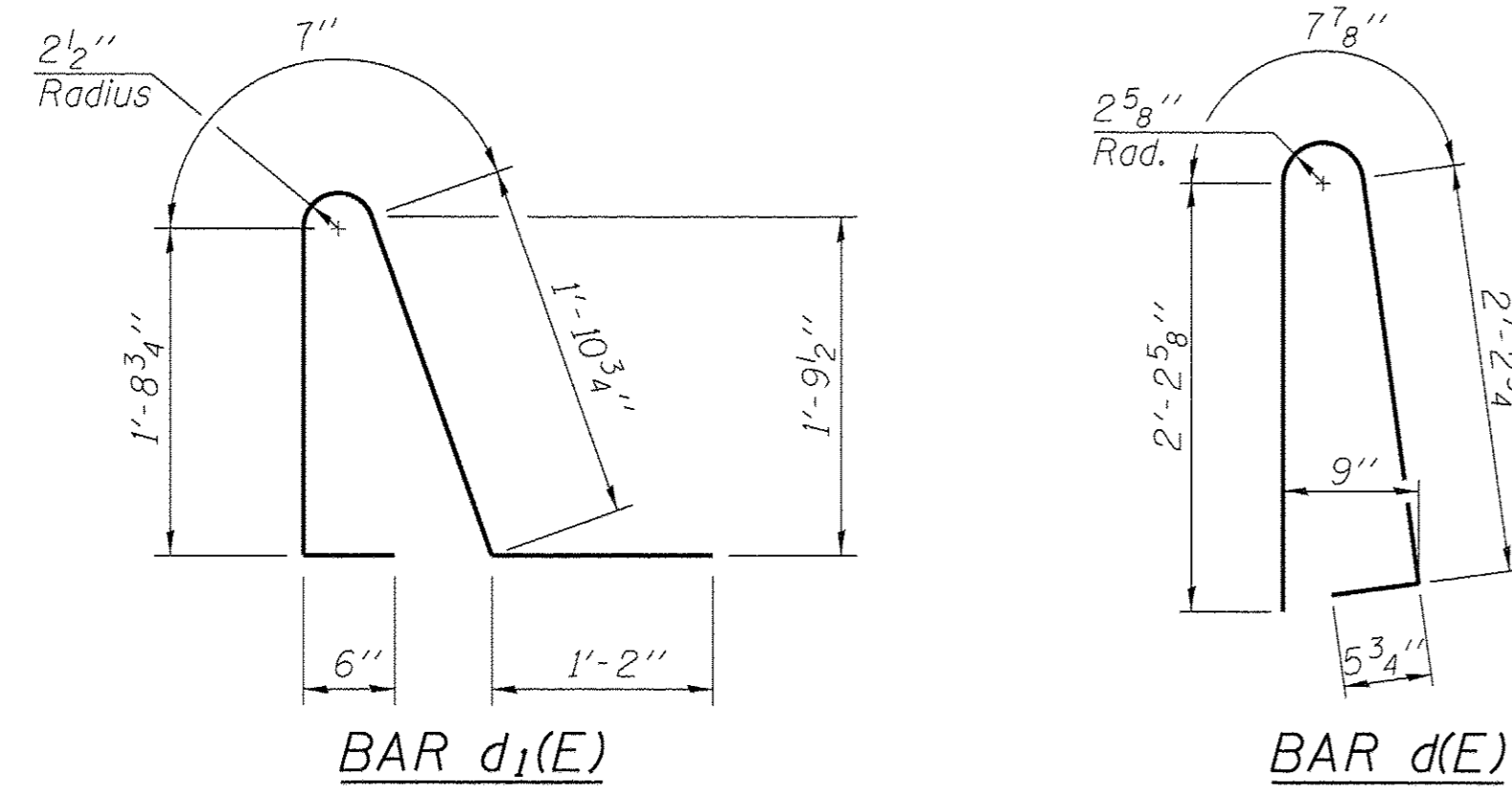
SHEET NO. 8 OF 28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	48
CONTRACT NO. 9360			ILLINOIS FED. AID PROJECT	





INSIDE ELEVATION OF PARAPET

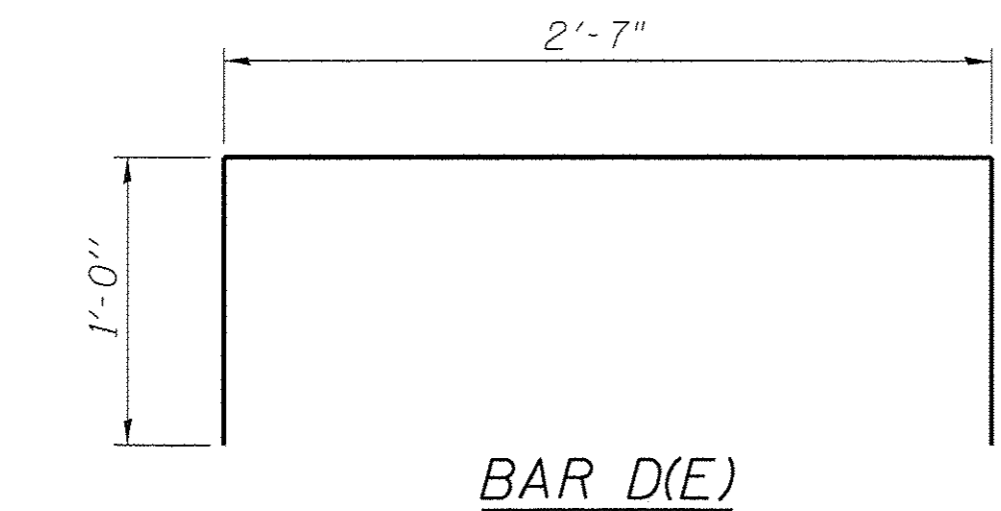


MINIMUM BAR LAP

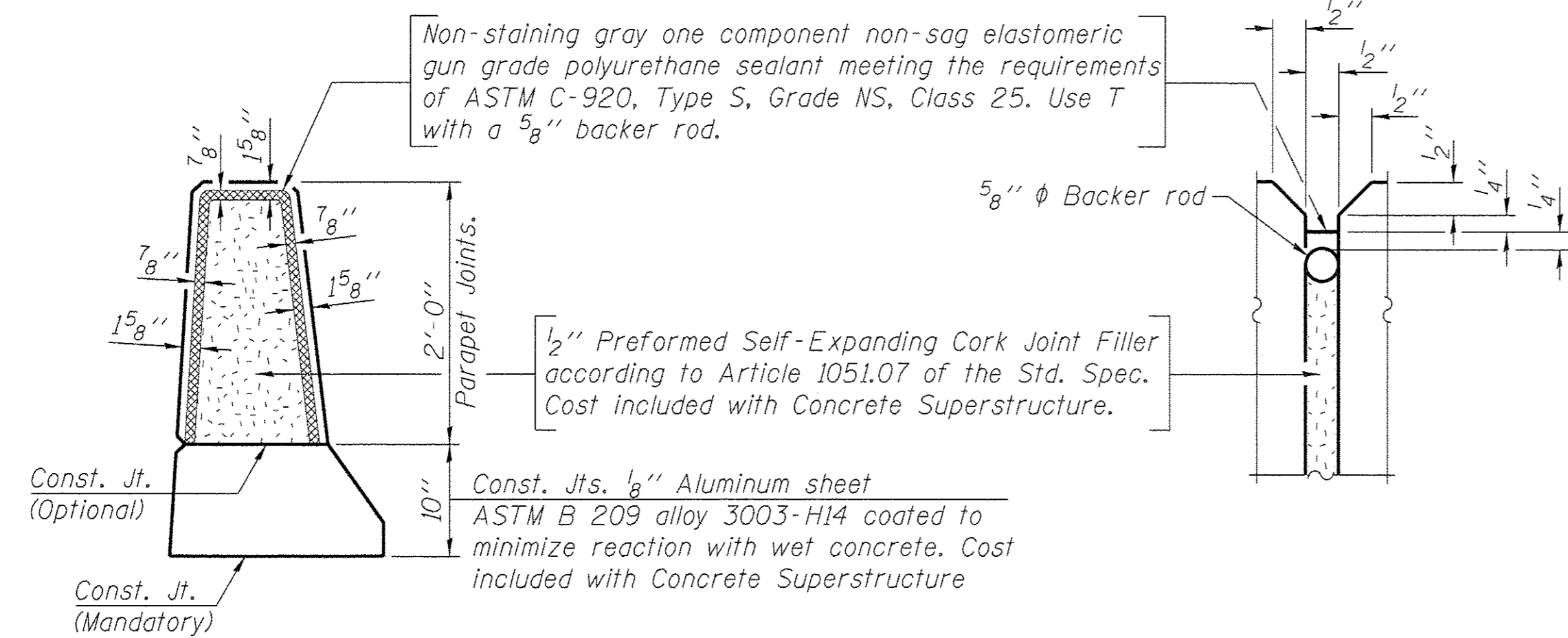
#4 bar = 2'-0"  
#8 bar = 5'-2"

BAR d<sub>1</sub>(E)

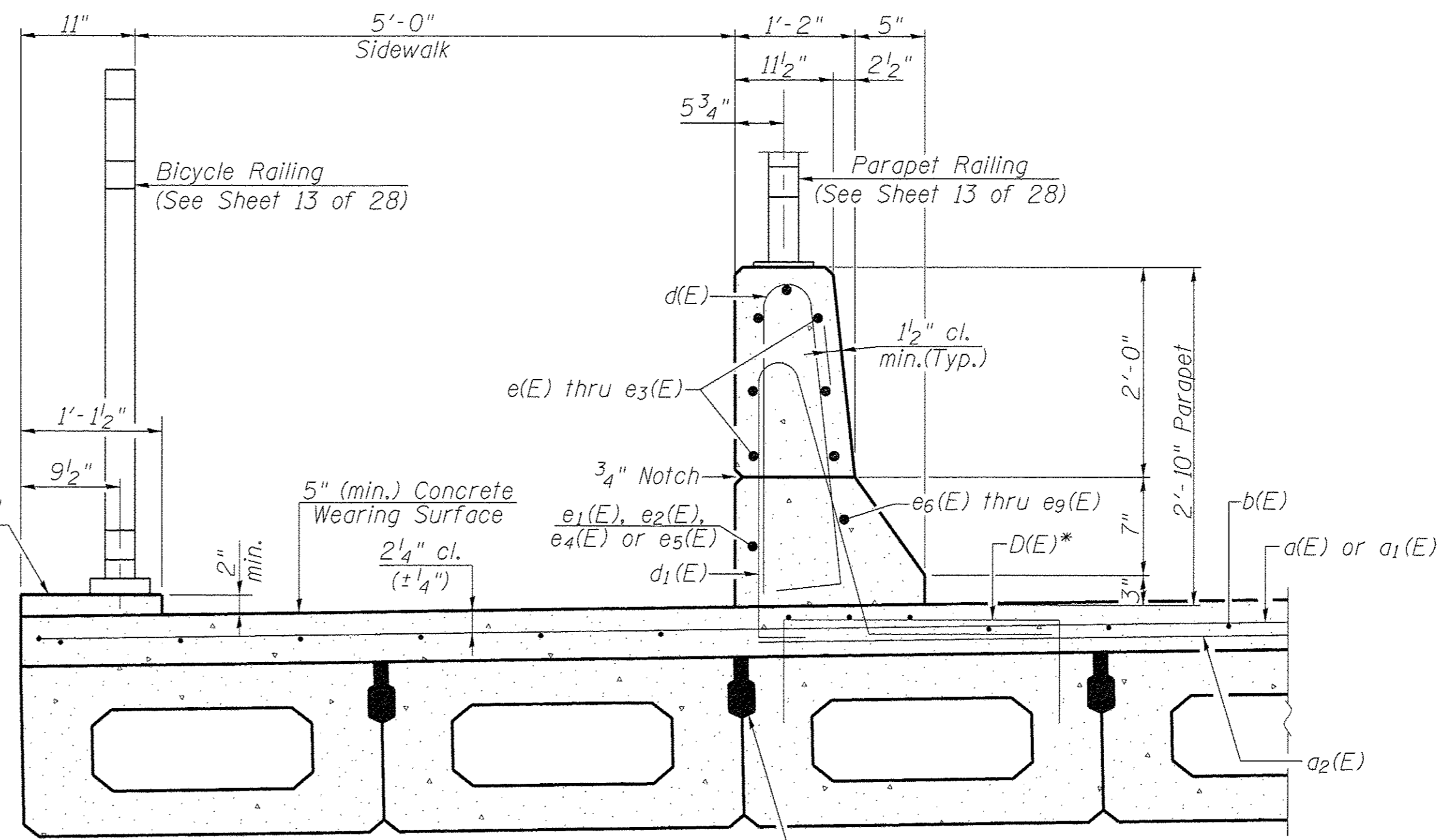
BAR d(E)



BAR D(E)



PARAPET JOINT DETAILS



SECTION THRU PARAPET

\* Place #4 D(E) bars at 9" cts. in beams directly under each parapet. D(E) bar included in cost of beam.

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	122	#4	35'-6"	—
a <sub>1</sub> (E)	123	#4	38'-6"	—
a <sub>2</sub> (E)	244	#4	6'-0"	—
a <sub>3</sub> (E)	4	#4	26'-6"	—
a <sub>4</sub> (E)	4	#4	28'-8"	—
b(E)	312	#4	33'-8"	—
d(E)	266	#5	5'-7"	⏏
d <sub>1</sub> (E)	266	#5	5'-11"	⏏
e(E)	56	#4	15'-6"	—
e <sub>1</sub> (E)	32	#4	4'-2"	—
e <sub>2</sub> (E)	32	#4	6'-2"	—
e <sub>3</sub> (E)	28	#4	19'-0"	—
e <sub>4</sub> (E)	4	#4	31'-4"	—
e <sub>5</sub> (E)	2	#4	38'-4"	—
e <sub>6</sub> (E)	4	#8	31'-4"	—
e <sub>7</sub> (E)	4	#8	4'-2"	—
e <sub>8</sub> (E)	4	#8	6'-2"	—
e <sub>9</sub> (E)	4	#8	21'-10"	—
Reinforcement Bars, Epoxy Coated		Pound	19360	
Concrete Superstructure		Cu. Yd.	31.9	
Concrete Wearing Surface, 5"		Sq. Yd.	1037	

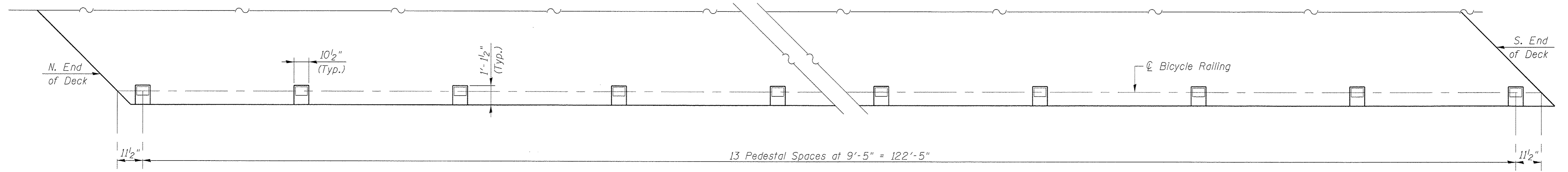
Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -

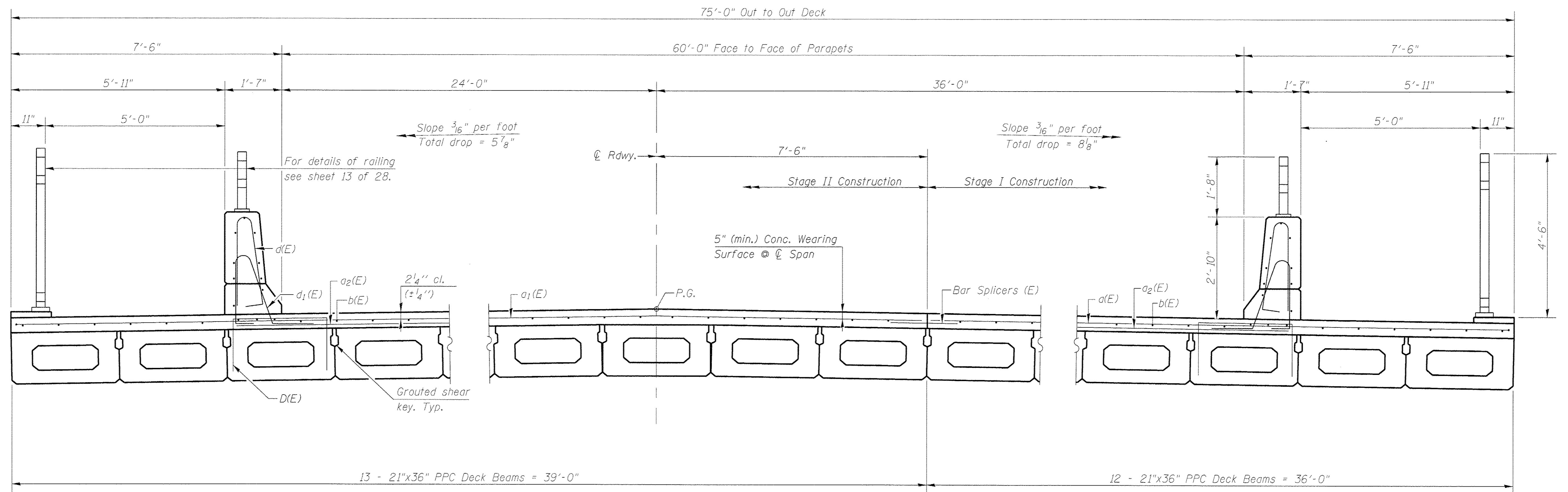
**Allen Henderson & Associates, Inc.**  
Civil and Structural Engineers Springfield, IL  
62703 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

**SUPERSTRUCTURE DETAILS**  
**STRUCTURE NO. 084-6019**  
SHEET NO. 9 OF 28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	49
CONTRACT NO. 93600			ILLINOIS FED. AID PROJECT	



**PEDESTAL SPACING - WEST SIDE**  
(East Side Similar)



**CROSS SECTION**  
(Looking South)

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



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

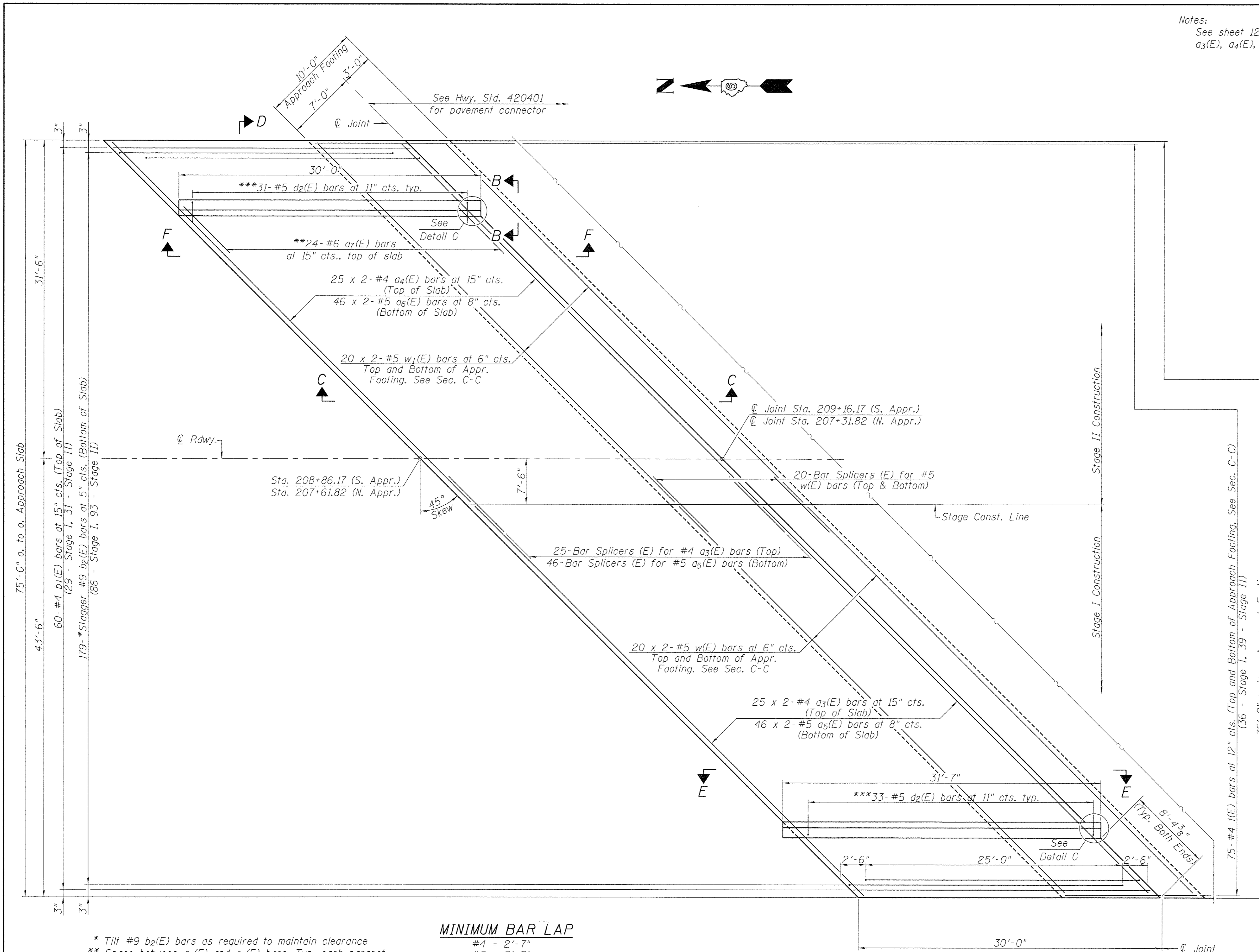
**SUPERSTRUCTURE DETAILS**  
**STRUCTURE NO. 084-6019**

SHEET NO. 10 OF 28 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B006	10-00470-00-BR	SANGAMON	90	50
CONTRACT NO. 93600			ILLINOIS FED. AID PROJECT	



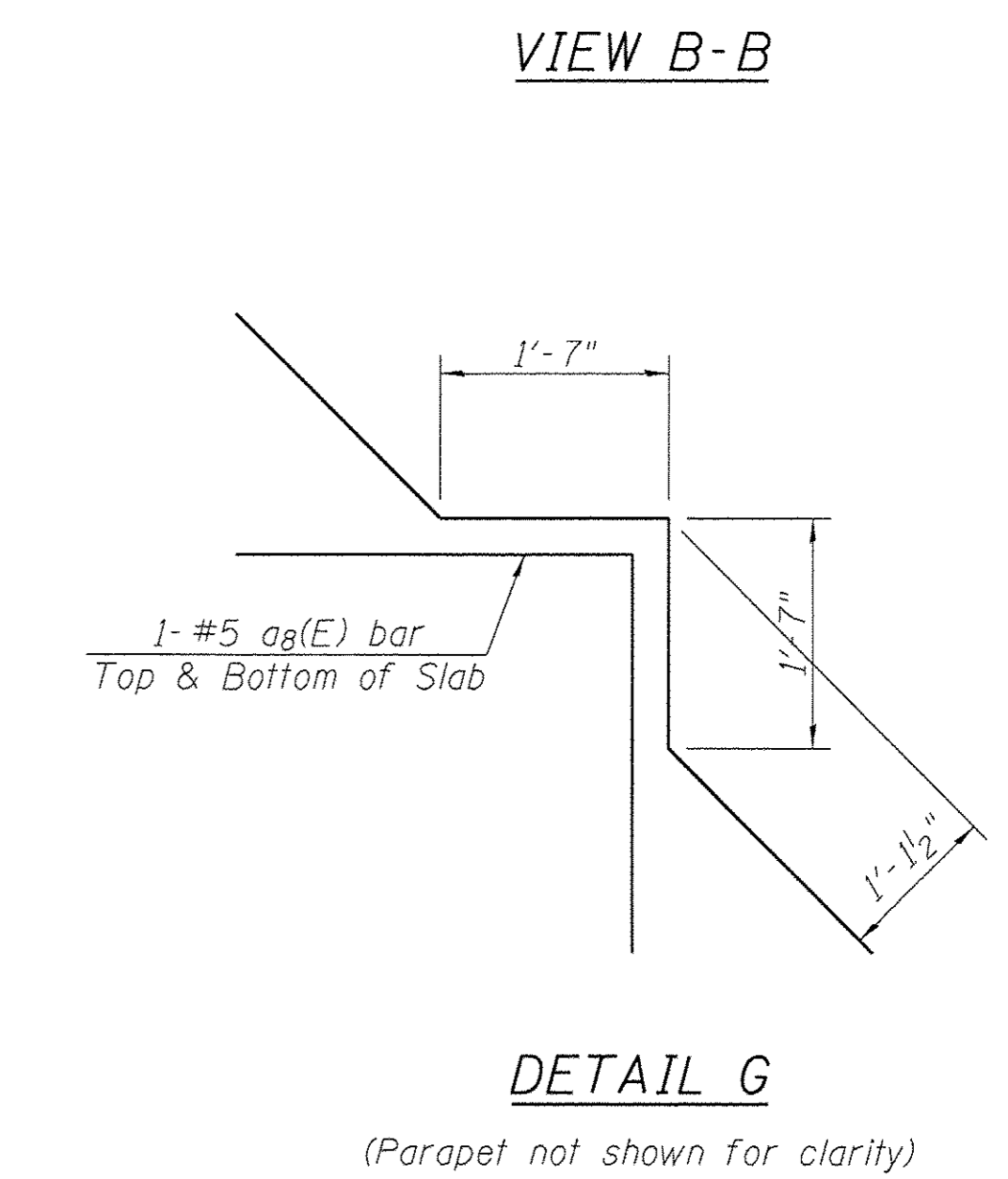
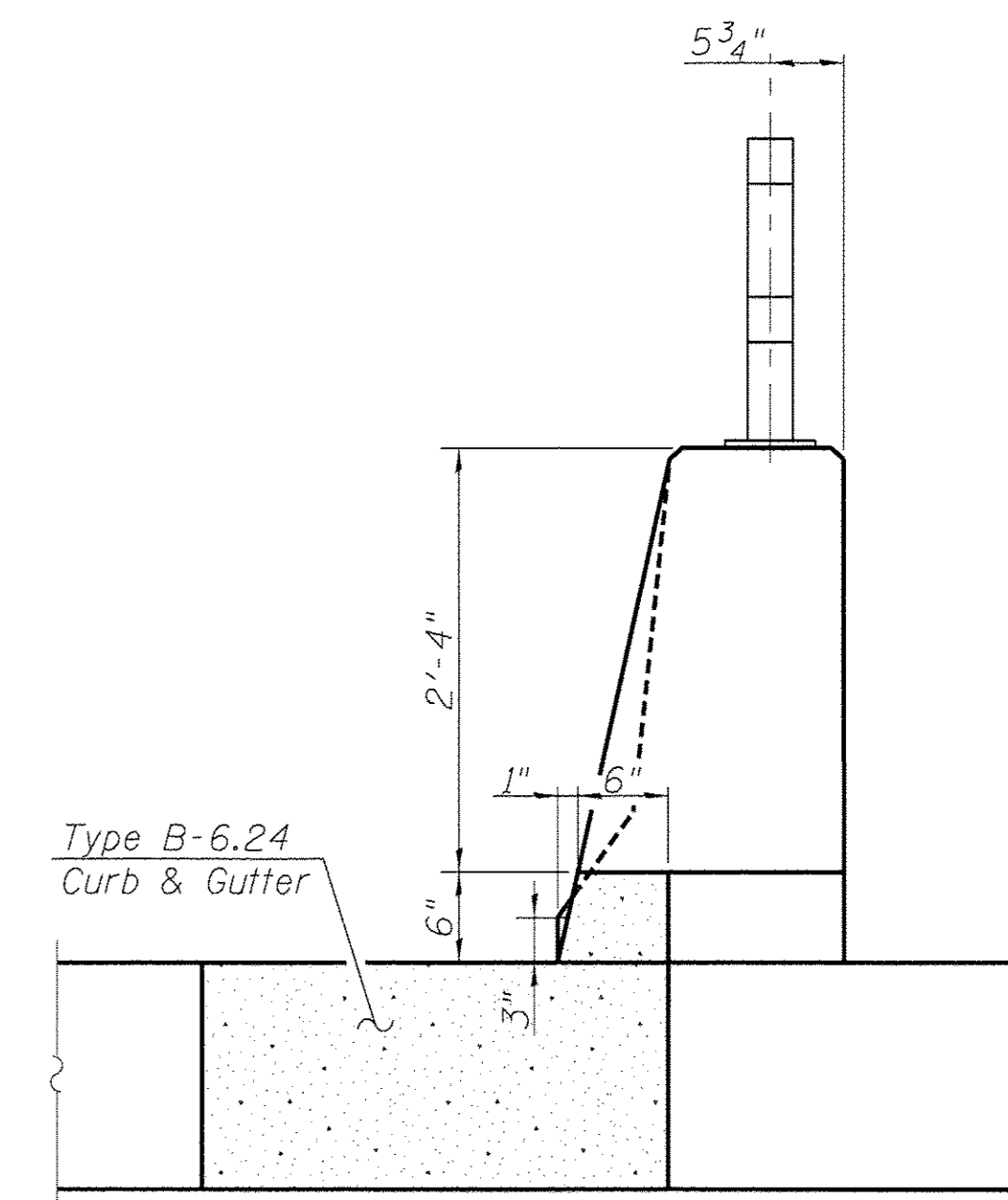
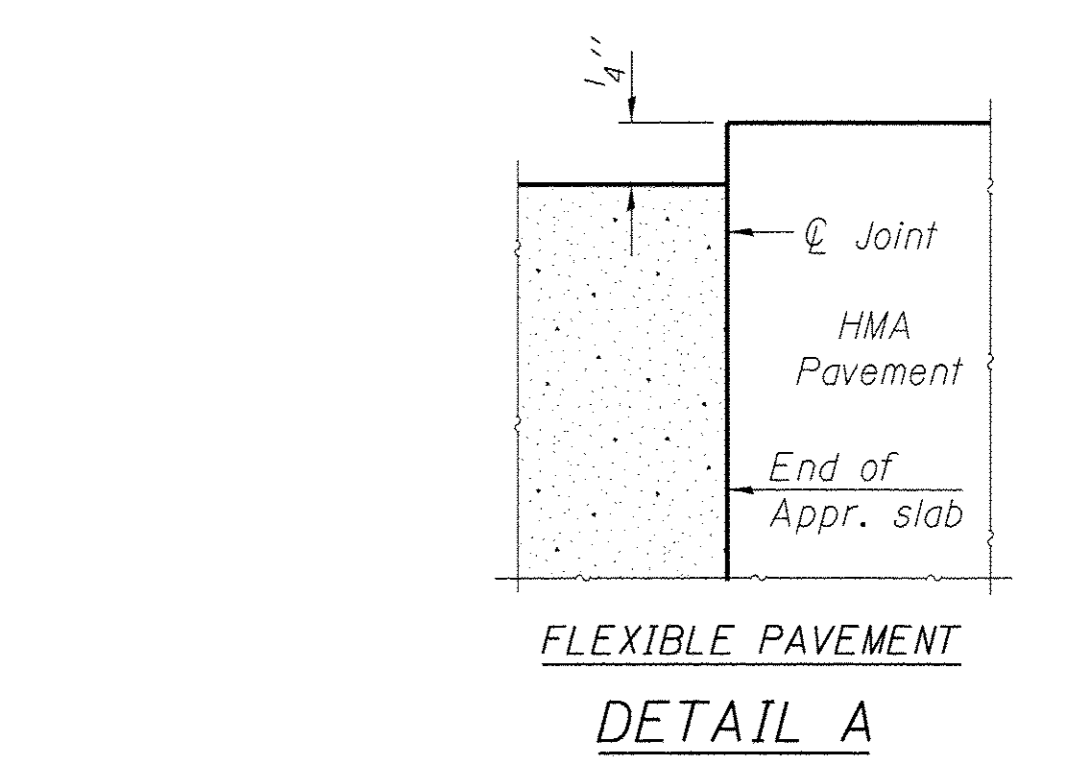
Notes:  
See sheet 12 of 28 for Sections C-C & D-D and View E-E & F-F.  
a<sub>3</sub>(E), a<sub>4</sub>(E), a<sub>5</sub>(E) and a<sub>6</sub>(E) bar spacings measured along  $\phi$  Rdwy.



\* Tilt #9 b<sub>2</sub>(E) bars as required to maintain clearance  
\*\* Space between a<sub>3</sub>(E) and a<sub>4</sub>(E) bars, Typ. each parapet  
\*\*\* Cut and bend to fit in the field  
Bars indicated thus 25 x 2 - #4 etc. indicates 25 lines of bars with 2 lengths per line.

**MINIMUM BAR LAP**  
#4 = 2'-7"  
#5 = 3'-3"

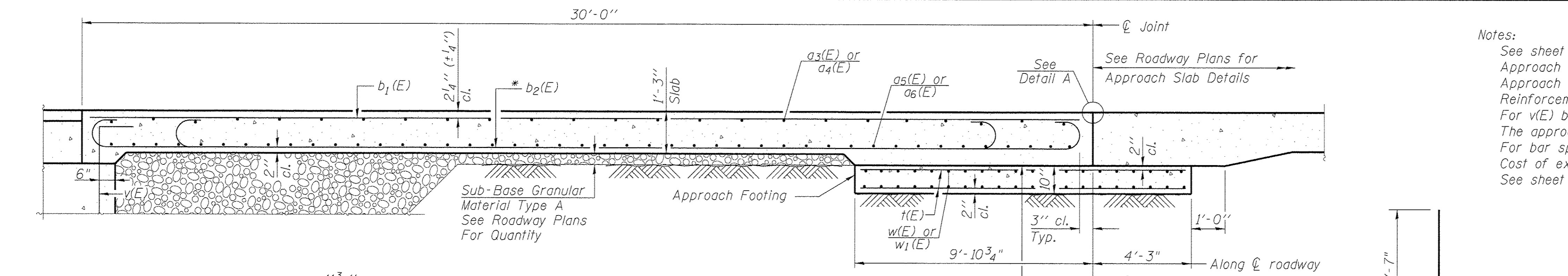
**PLAN - SOUTH APPROACH**  
(North Approach Similar)



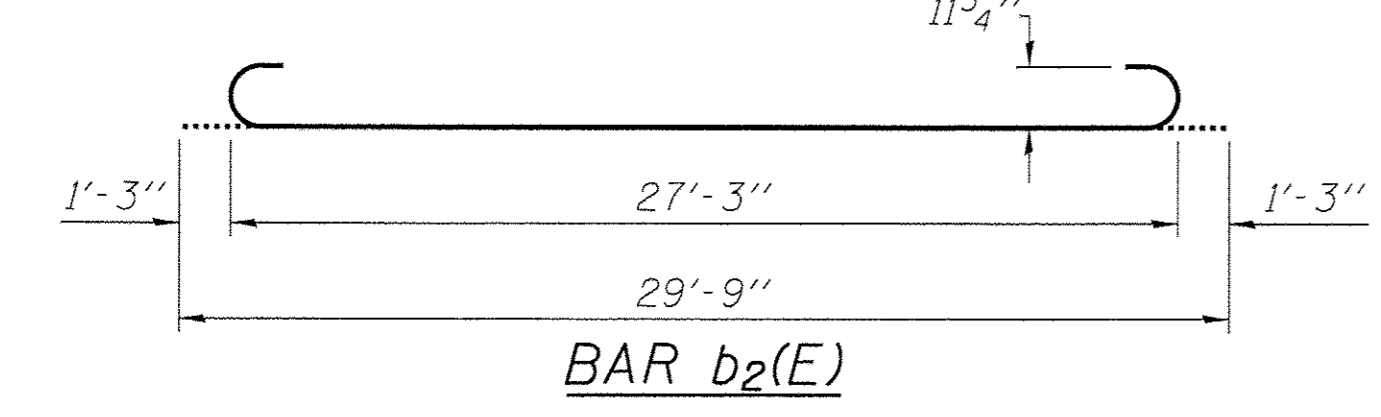
(Sheet 1 of 2)

FILE NAME =	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>BRIDGE APPROACH SLAB DETAILS</b> <b>STRUCTURE NO. 084-6019</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED -	REVISED -			8006	10-00470-00-BR	SANGAMON	90	51
	PLOT DATE =	DRAWN -	REVISED -			CONTRACT NO. <b>93600</b>				
		CHECKED -	REVISED -	ILLINOIS FED. AID PROJECT						

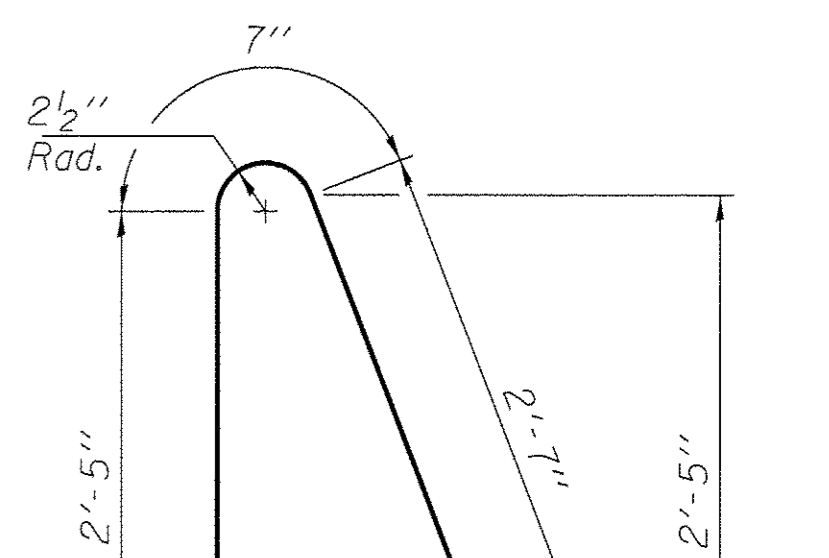
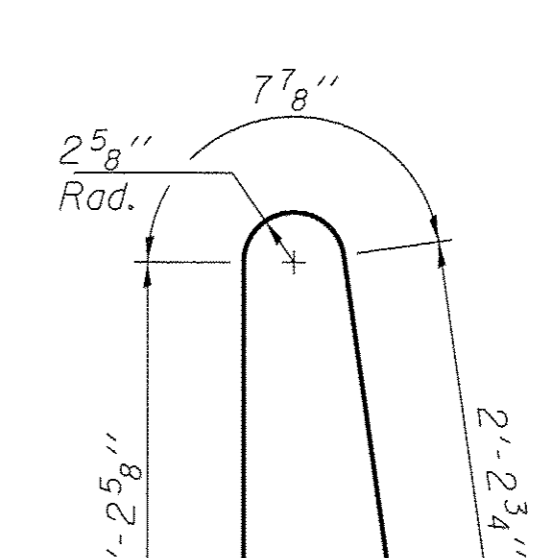
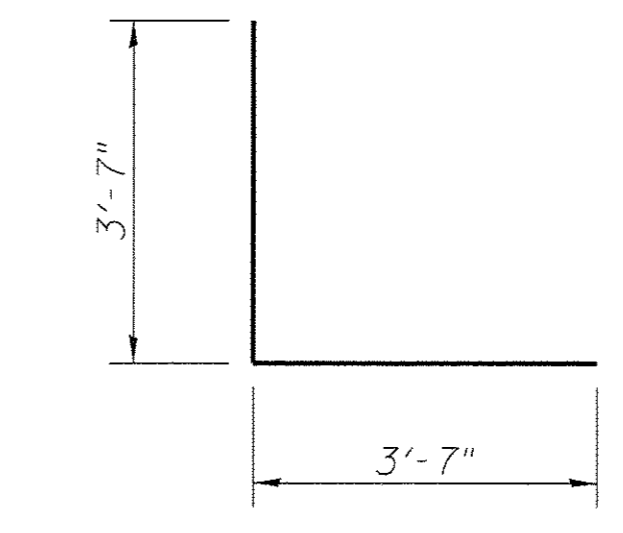
SHEET NO. 11 OF 28 SHEETS



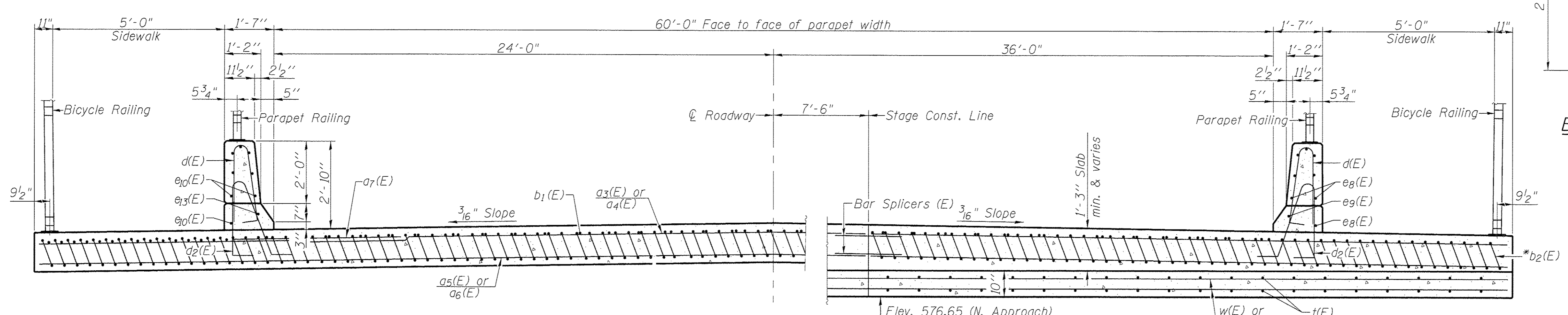
Notes:  
 See sheet 11 of 28 for Detail A and View B-B.  
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.  
 Approach footing concrete shall be paid for as Concrete Structures.  
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.  
 For v(E) bar details, see sheet 19 & 20 of 28.  
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.  
 For bar splicer details, see sheet 25 of 28.  
 Cost of excavation for approach footing included with Concrete Structures.  
 See sheet 14 of 28 for rail post spacing.



SECTION C-C



\*\*\* Cost included with Concrete Superstructure



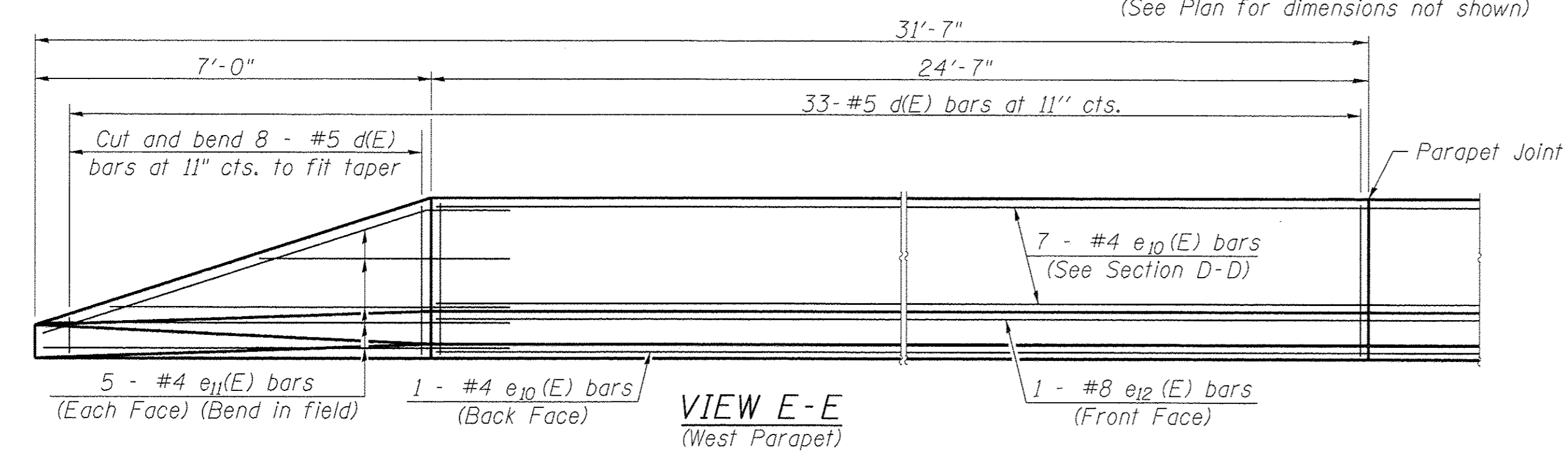
NEAR ABUTMENT

SECTION D-D  
 (See Plan for dimensions not shown)

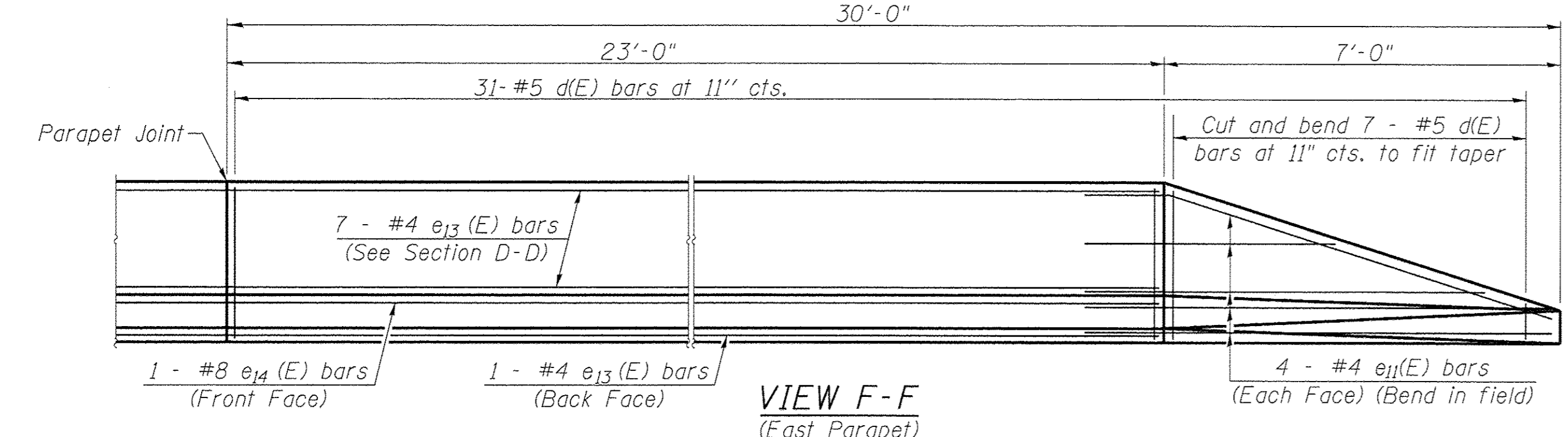
AT APPROACH FOOTING

TWO APPROACHES  
 BILL OF MATERIAL

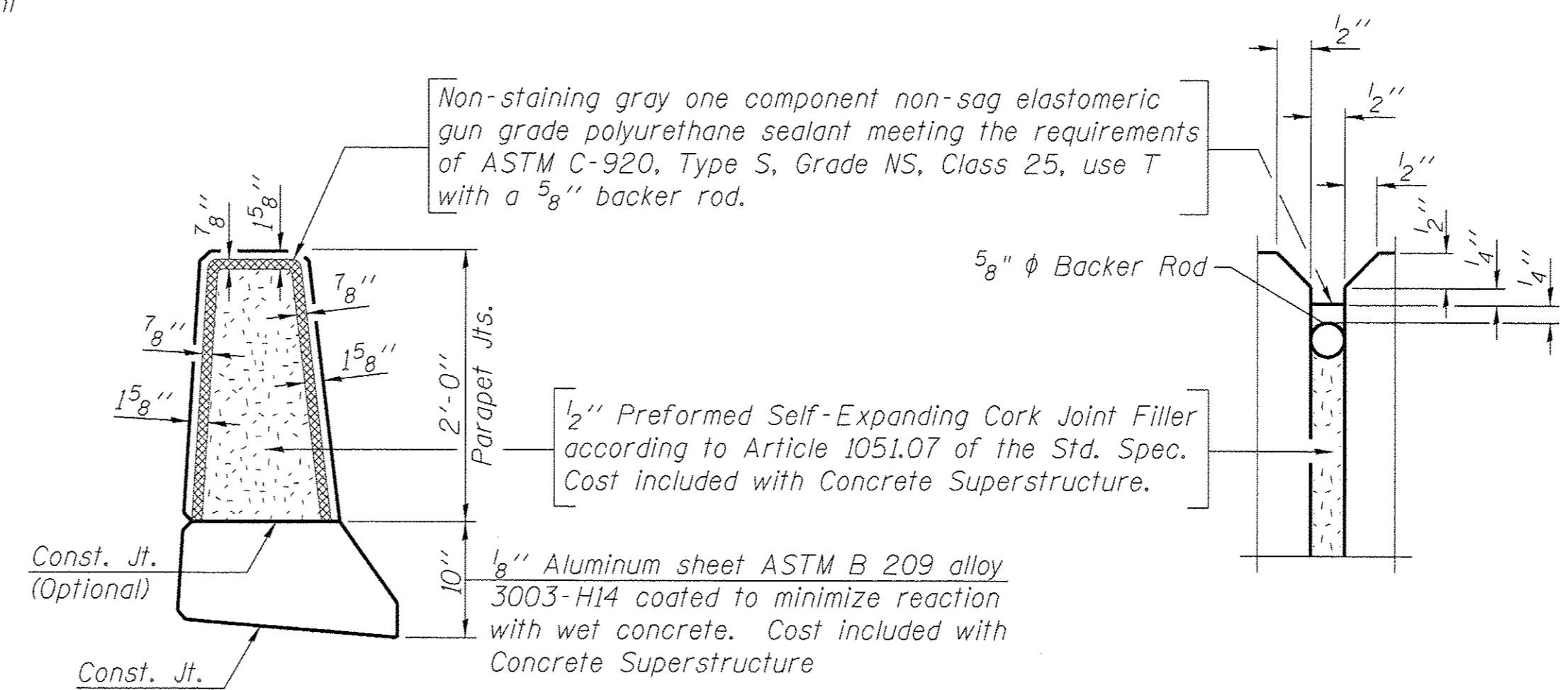
Bar	No.	Size	Length	Shape
a3(E)	100	#4	26'-6"	---
a4(E)	100	#4	28'-8"	---
a5(E)	184	#5	26'-10"	---
a6(E)	184	#5	29'-0"	---
a7(E)	96	#6	6'-6"	---
a8(E)	8	#5	7'-2"	---
b1(E)	120	#4	29'-8"	---
b2(E)	358	#9	29'-9"	---
d(E)	128	#5	5'-7"	∧
d2(E)	128	#5	7'-11"	∧
e10(E)	16	#4	24'-3"	---
e11(E)	40	#4	9'-10"	---
e2(E)	2	#8	24'-3"	---
e3(E)	16	#4	22'-8"	---
e4(E)	2	#8	22'-8"	---
t(E)	300	#4	13'-9"	---
w(E)	160	#5	26'-10"	---
w1(E)	160	#5	29'-0"	---
Concrete Superstructure	Cu. Yd.		262.4	
Concrete Structures	Cu. Yd.		65.5	
Reinforcement Bars, Epoxy Coated	Pound		68880	



VIEW E-E  
 (West Parapet)



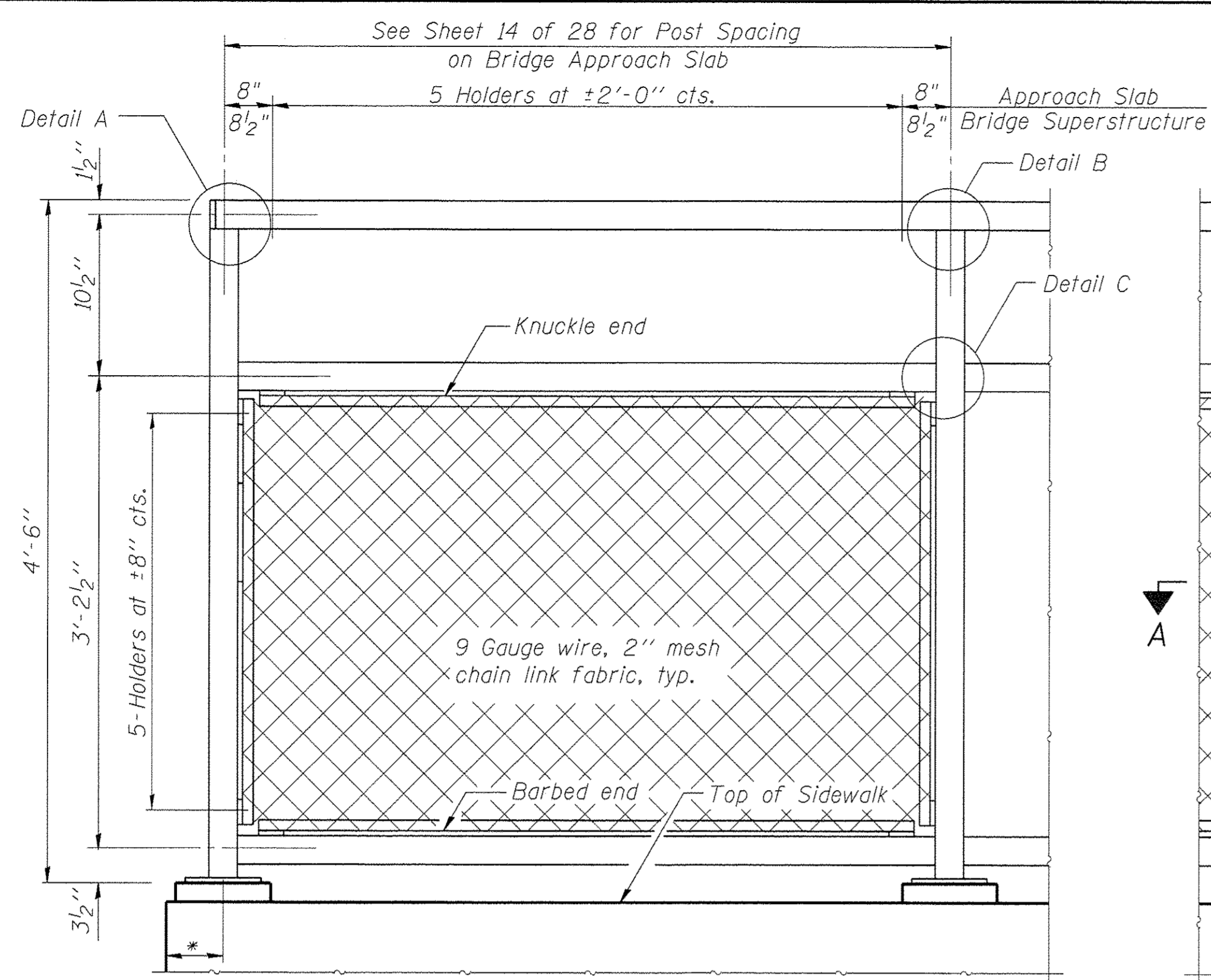
VIEW F-F  
 (East Parapet)



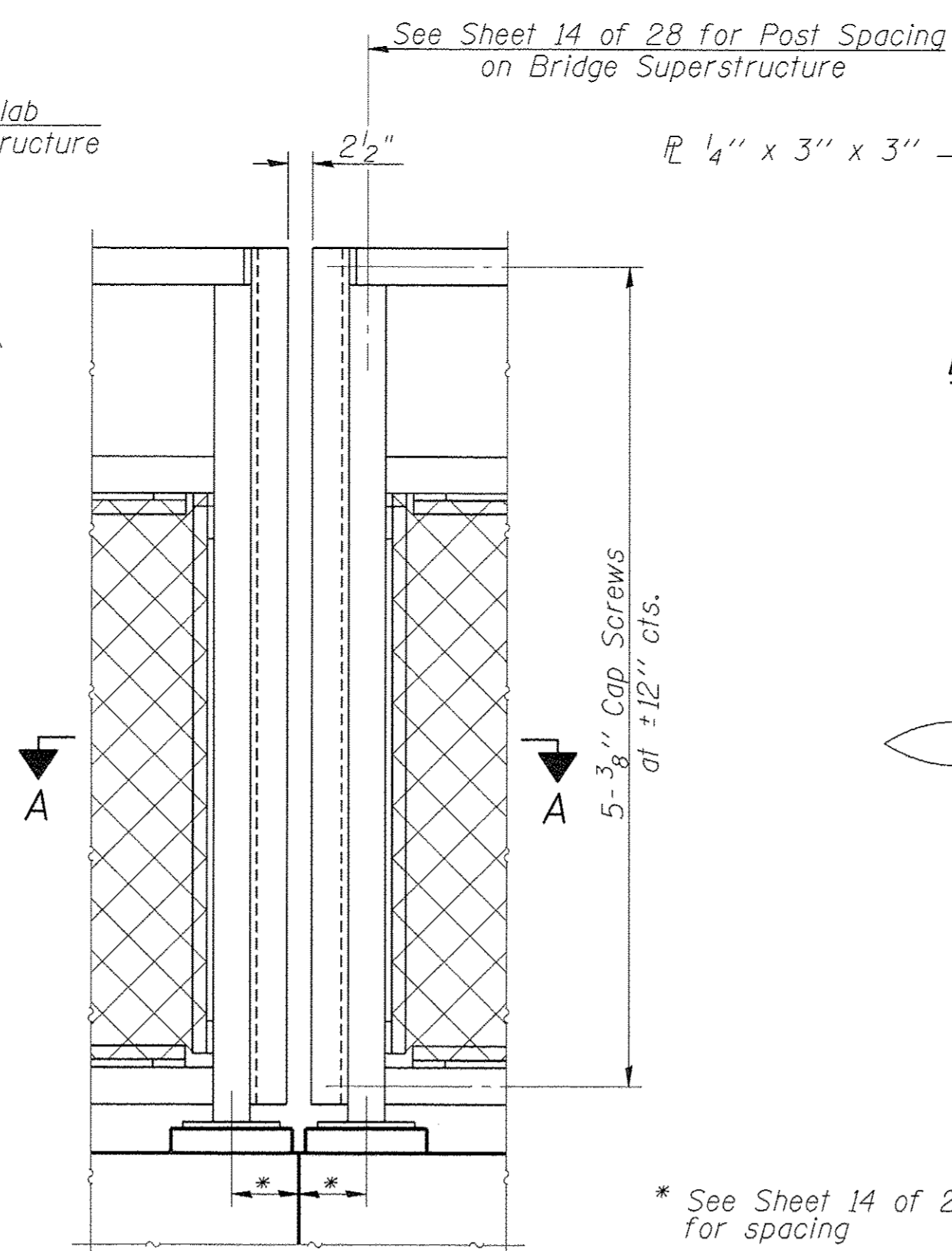
PARAPET JOINT DETAILS

(Sheet 2 of 2)

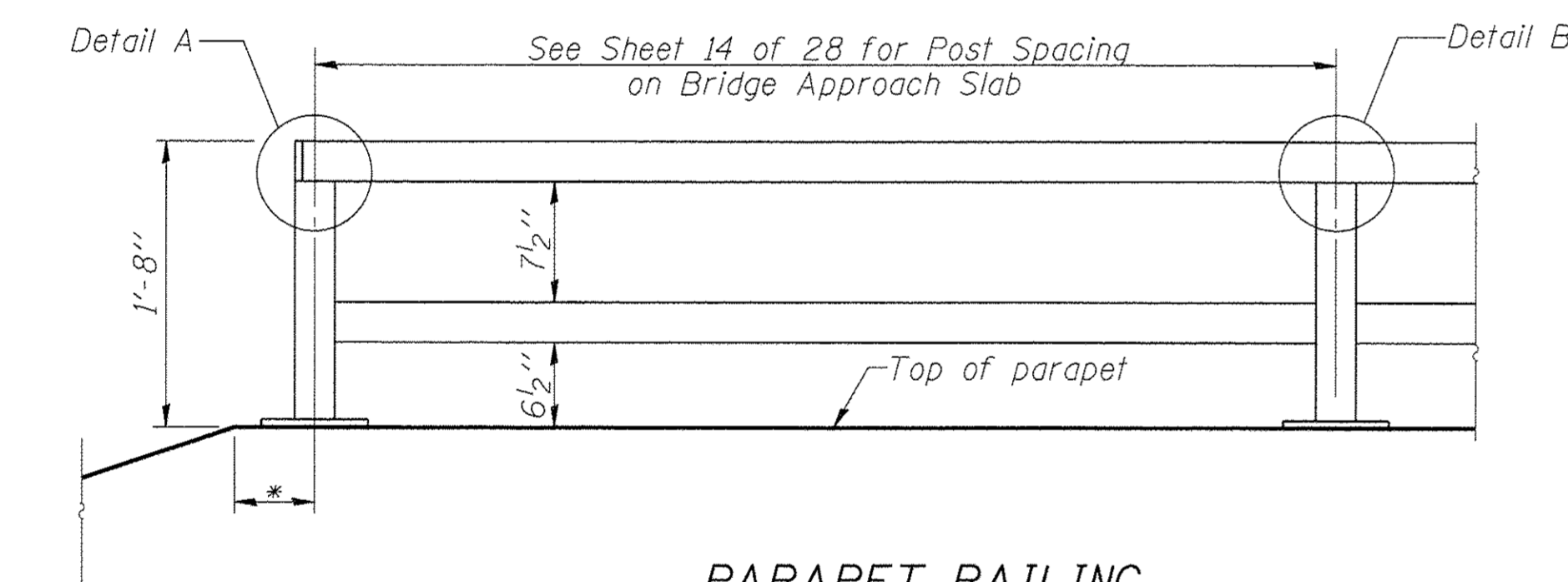
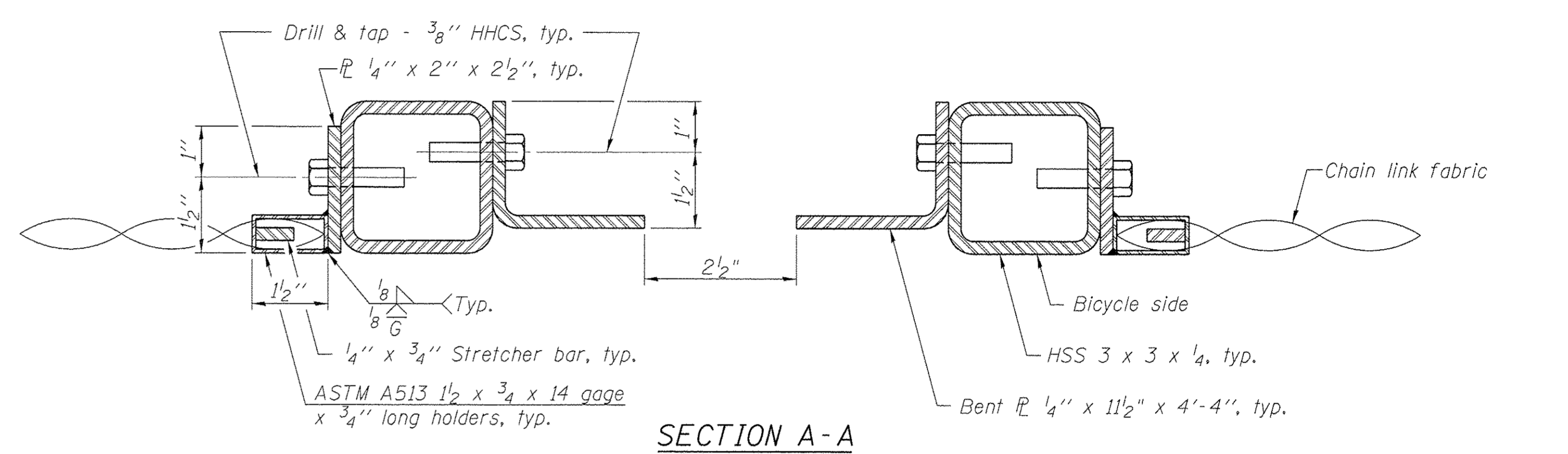
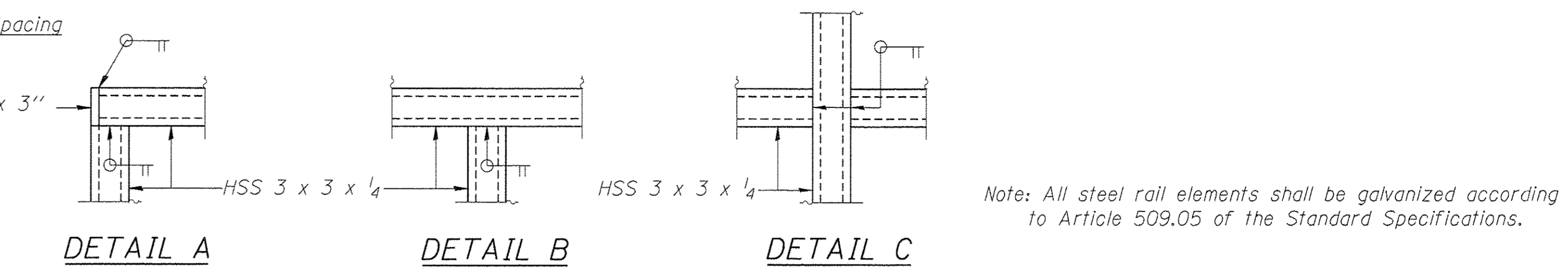




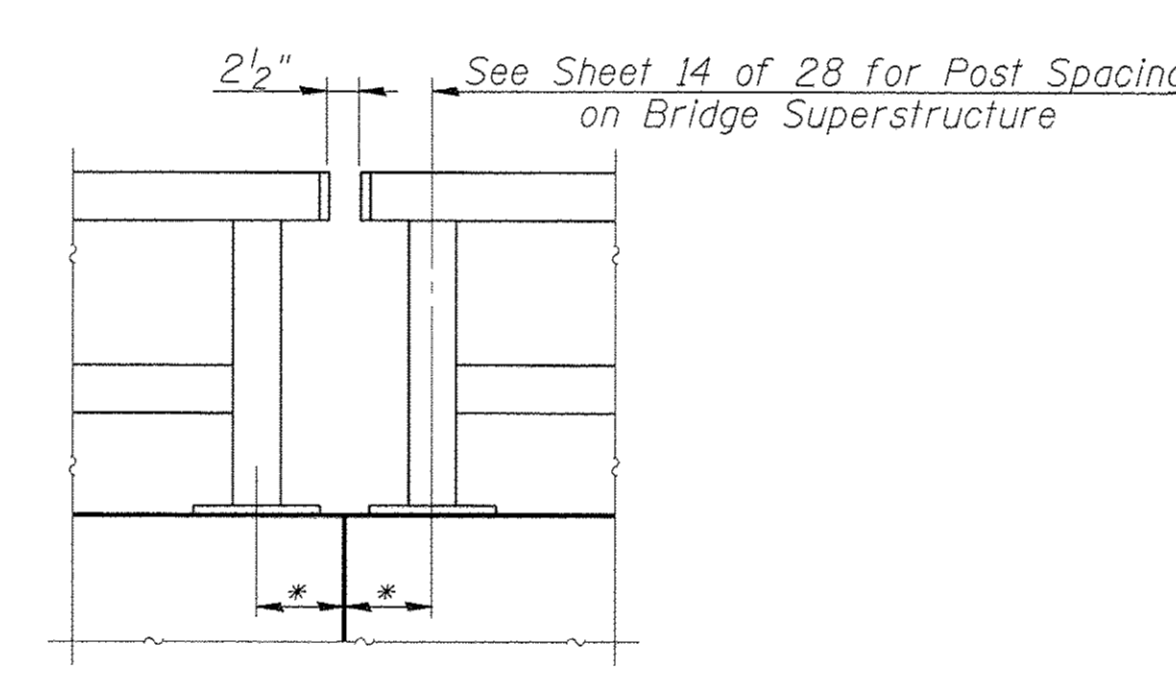
BICYCLE RAILING



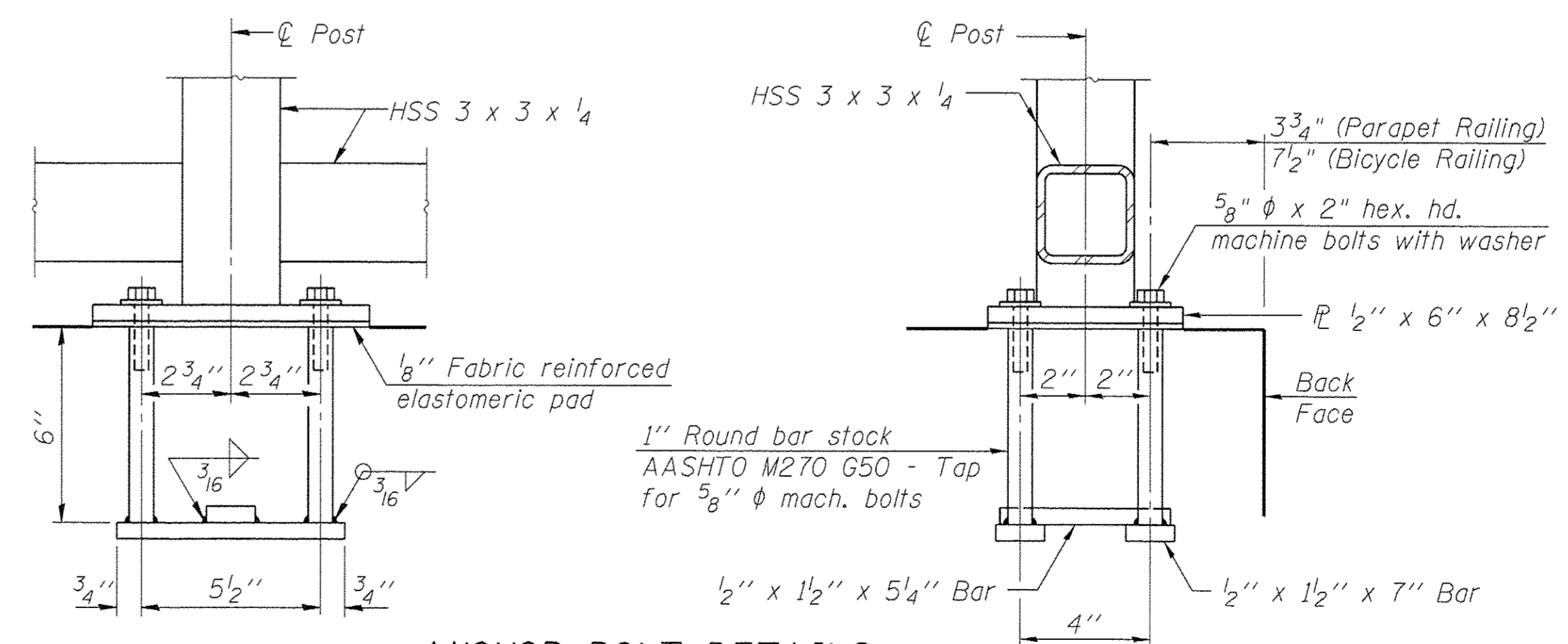
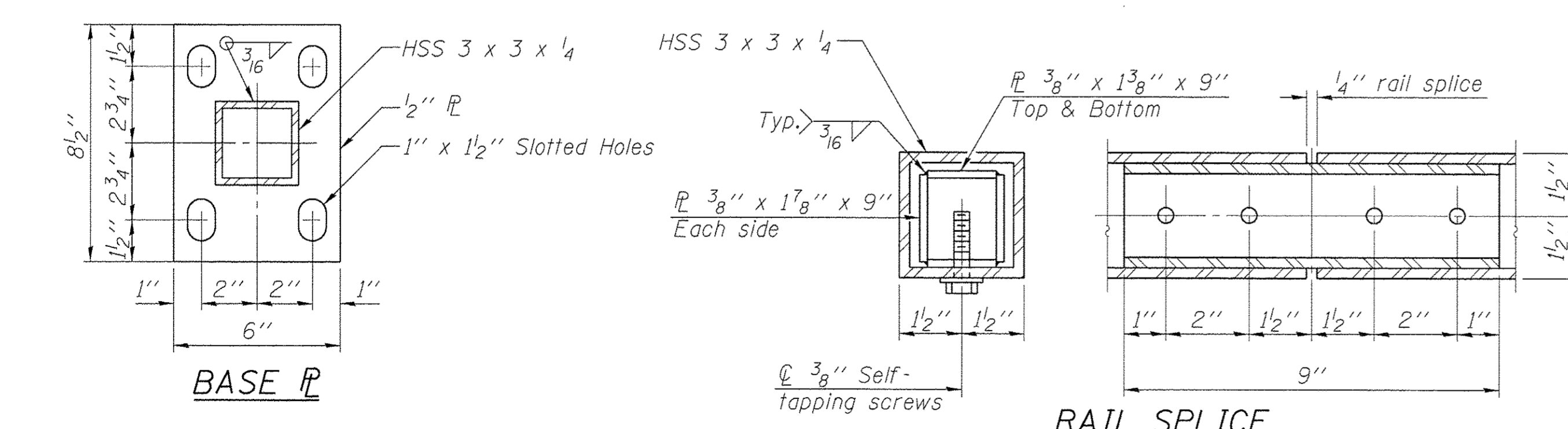
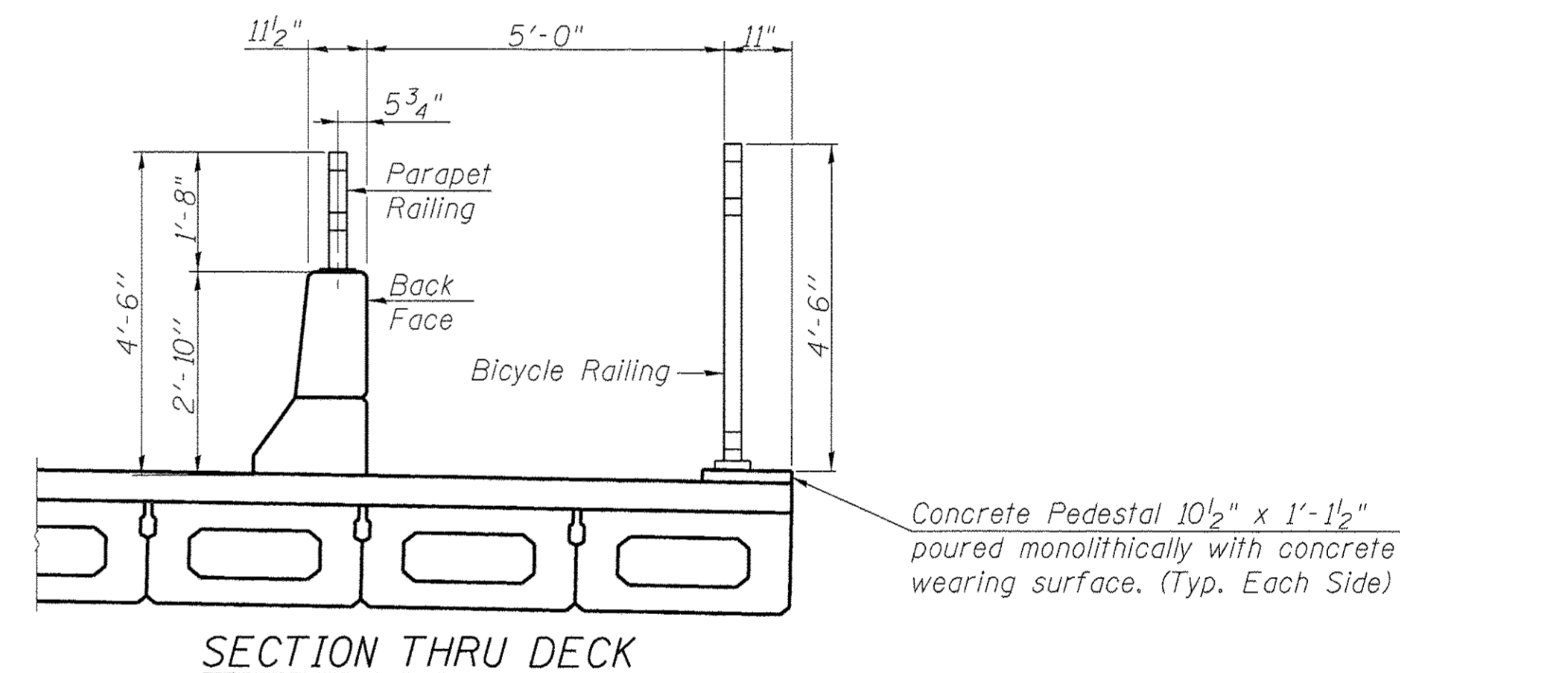
BICYCLE RAILING



PARAPET RAILING ELEVATION



PARAPET RAILING



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

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	369
Parapet Railing	Foot	344

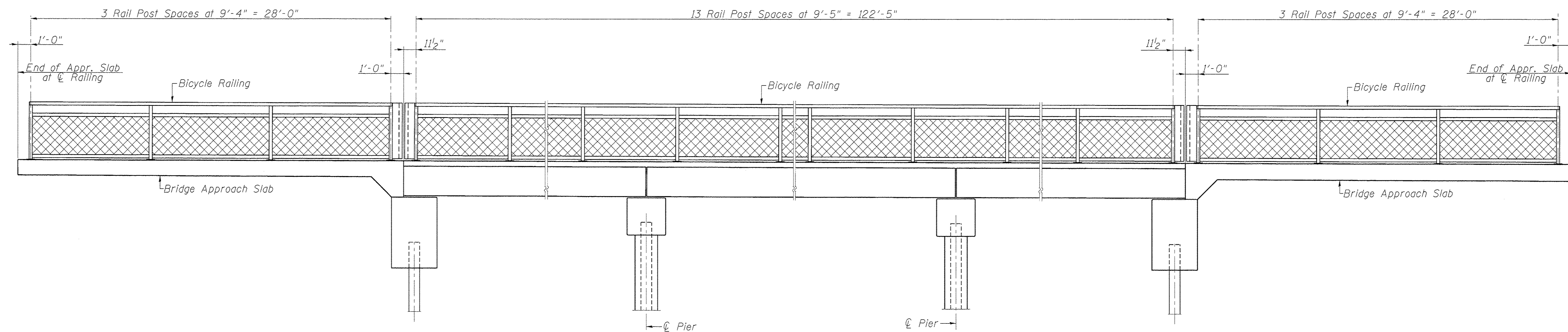
R-29 11-1-09 (10'-0" Maximum Post Spacing)

FILE NAME =	USER NAME =	DESIGNED -	REVISD -
		CHECKED -	REVISD -
		DRAWN -	REVISD -
		CHECKED -	REVISD -

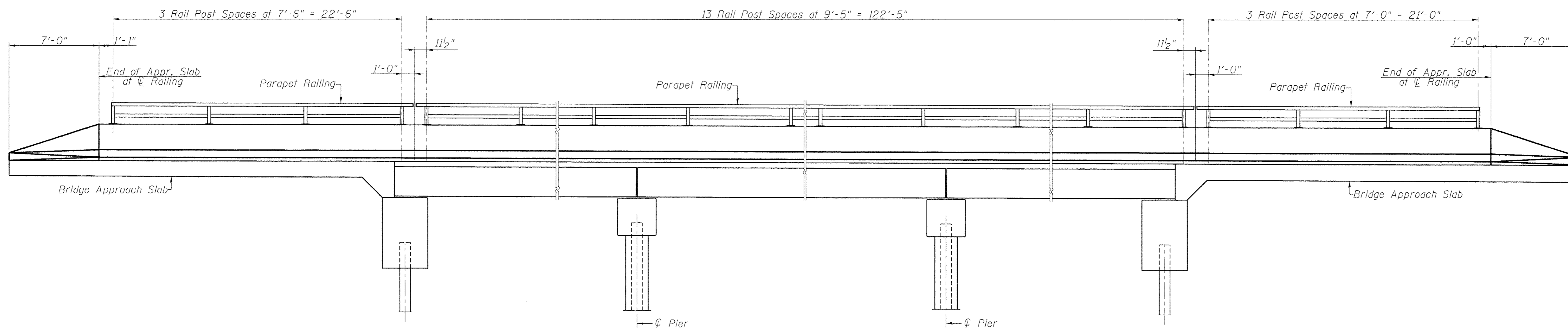
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL.  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

**BICYCLE RAILING**  
**STRUCTURE NO. 084-6019**  
 SHEET NO. 13 OF 28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	53
			CONTRACT NO. 93600	
ILLINOIS FED. AID PROJECT				



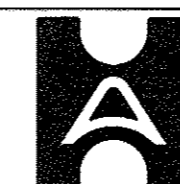
**BICYCLE RAILING POST SPACING**  
 (East Railing - Looking East)  
 (West Railing - Looking West)



**PARAPET RAILING POST SPACING**  
 (East Parapet - Looking East)  
 (West Parapet - Looking West)

Note:  
 Rail post spacing along centerline of rail.

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -



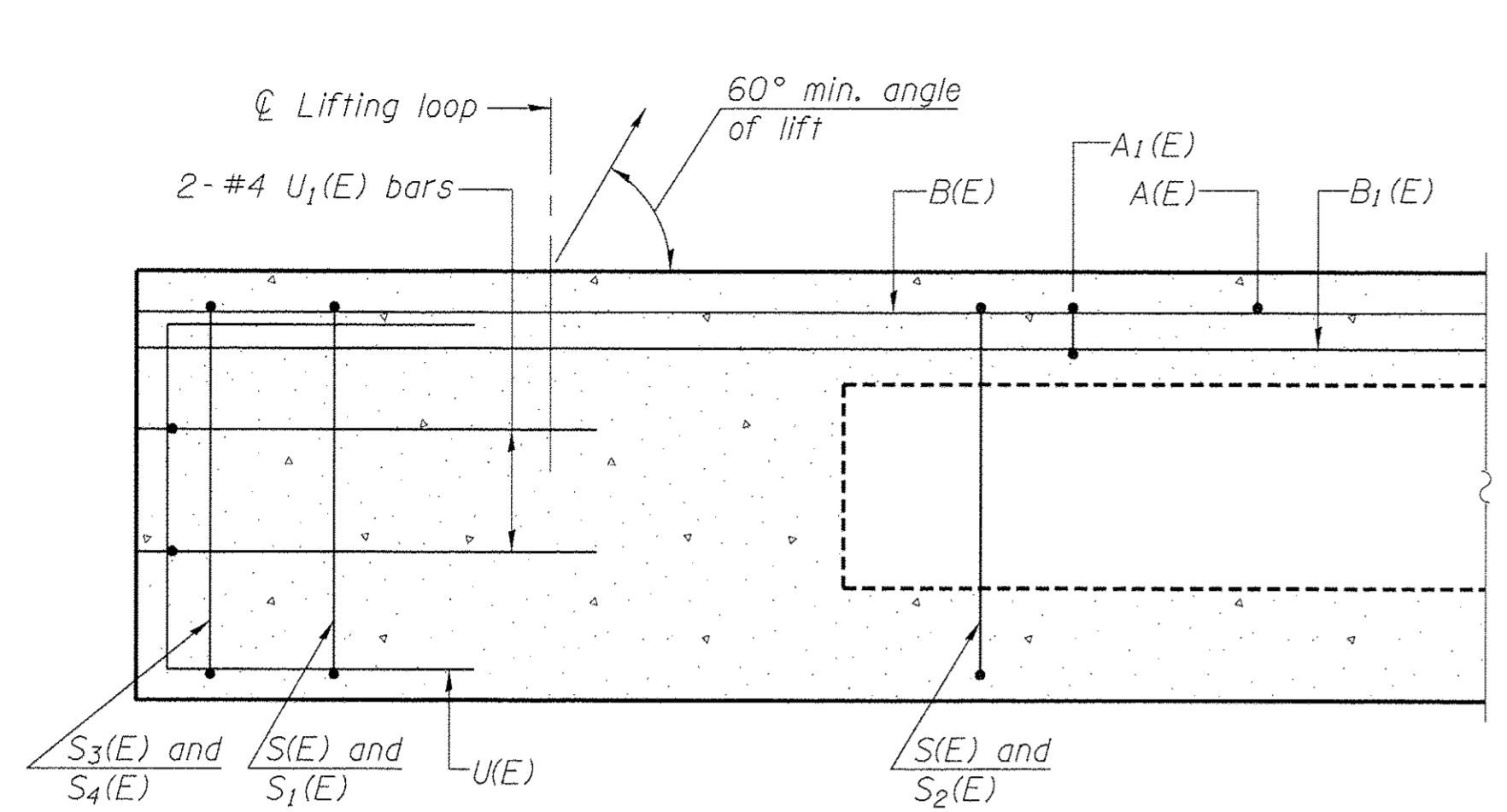
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL.  
 62703 Phone: (217)544-8033 IL. Design Firm  
 No. 184-001907

**BICYCLE RAILING DETAILS**  
**STRUCTURE NO. 084-6019**

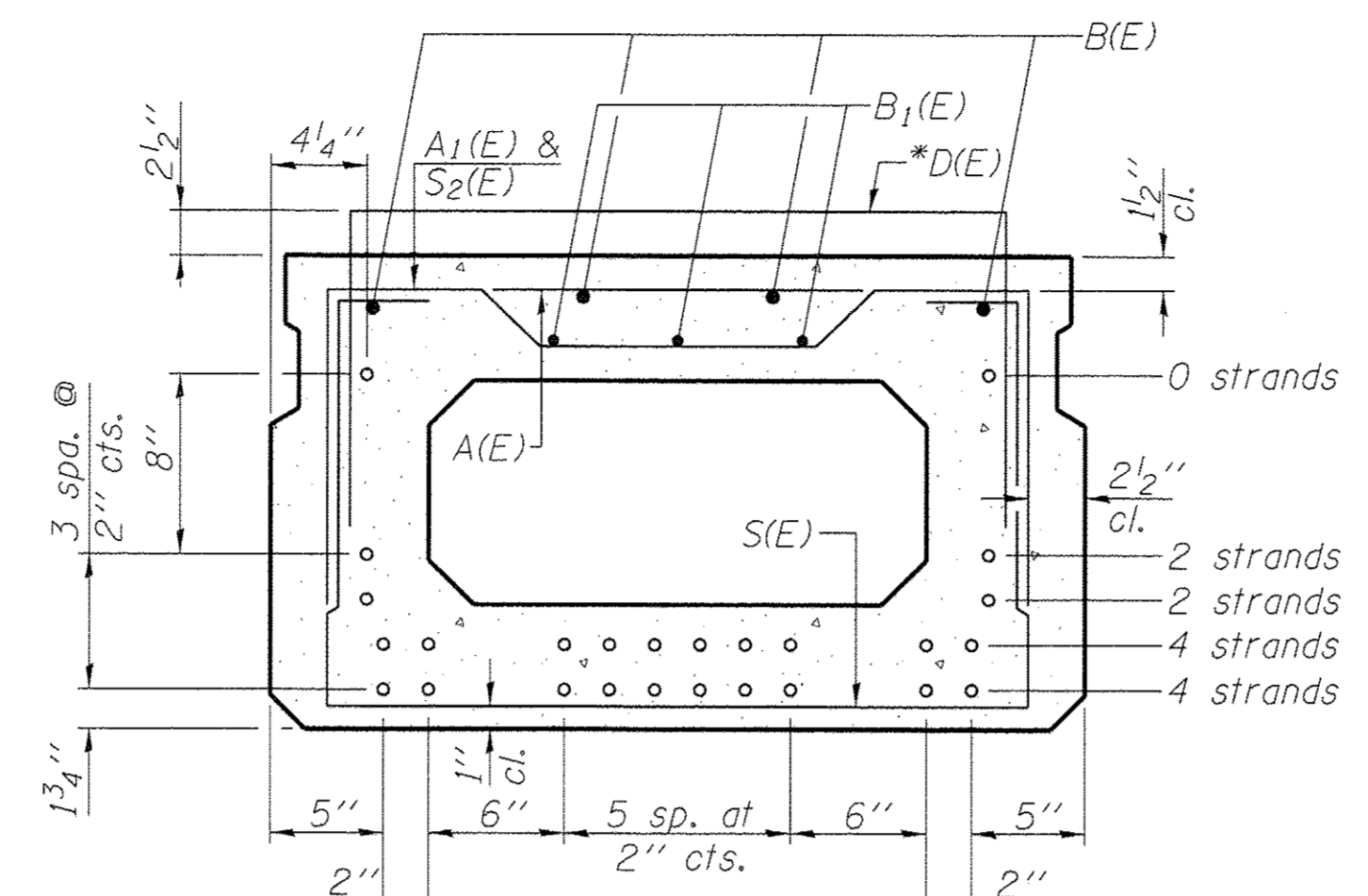
SHEET NO. 14 OF 28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	54
CONTRACT NO. 93600			ILLINOIS FED. AID PROJECT	





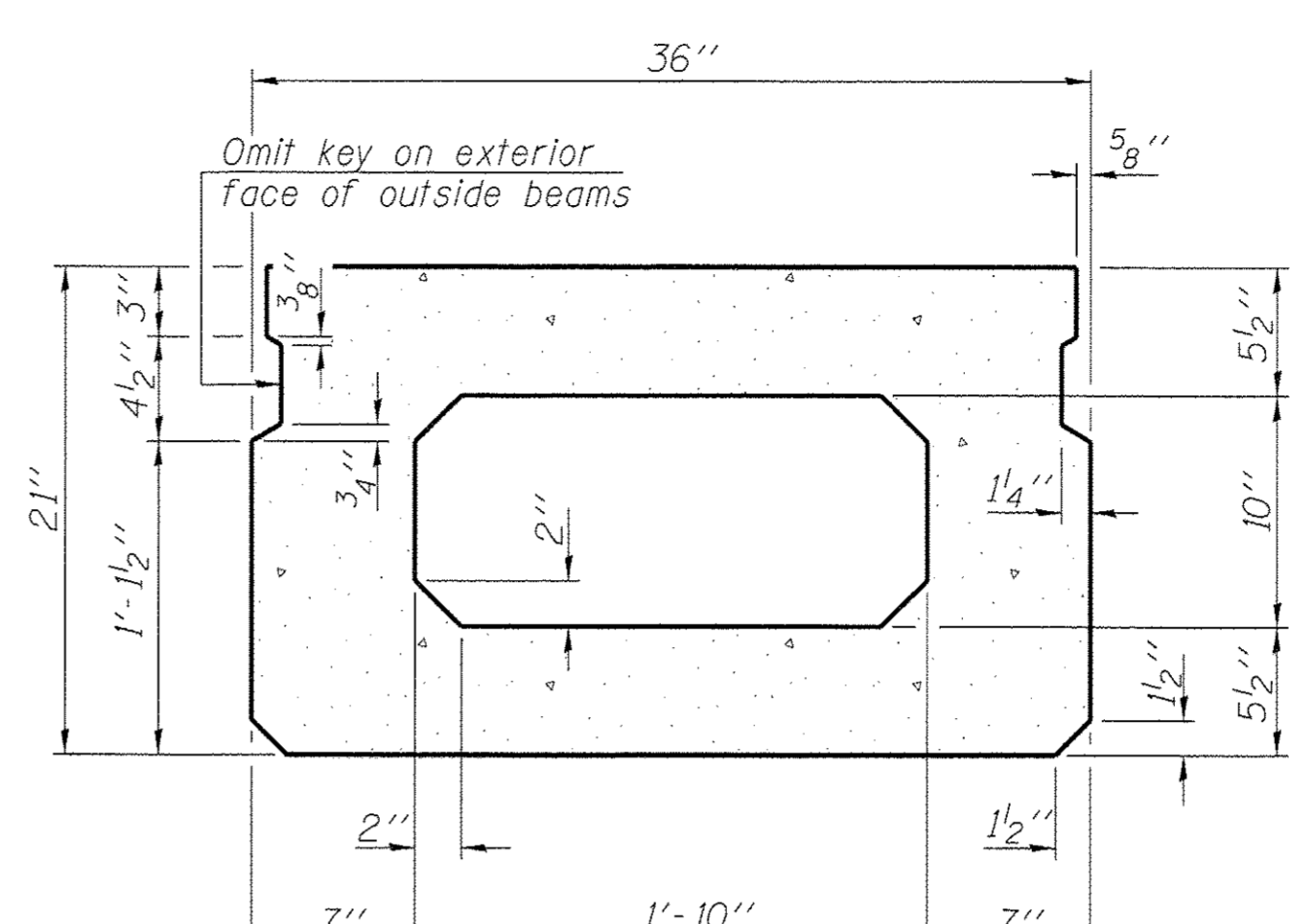
SECTION A-A



SECTION B-B

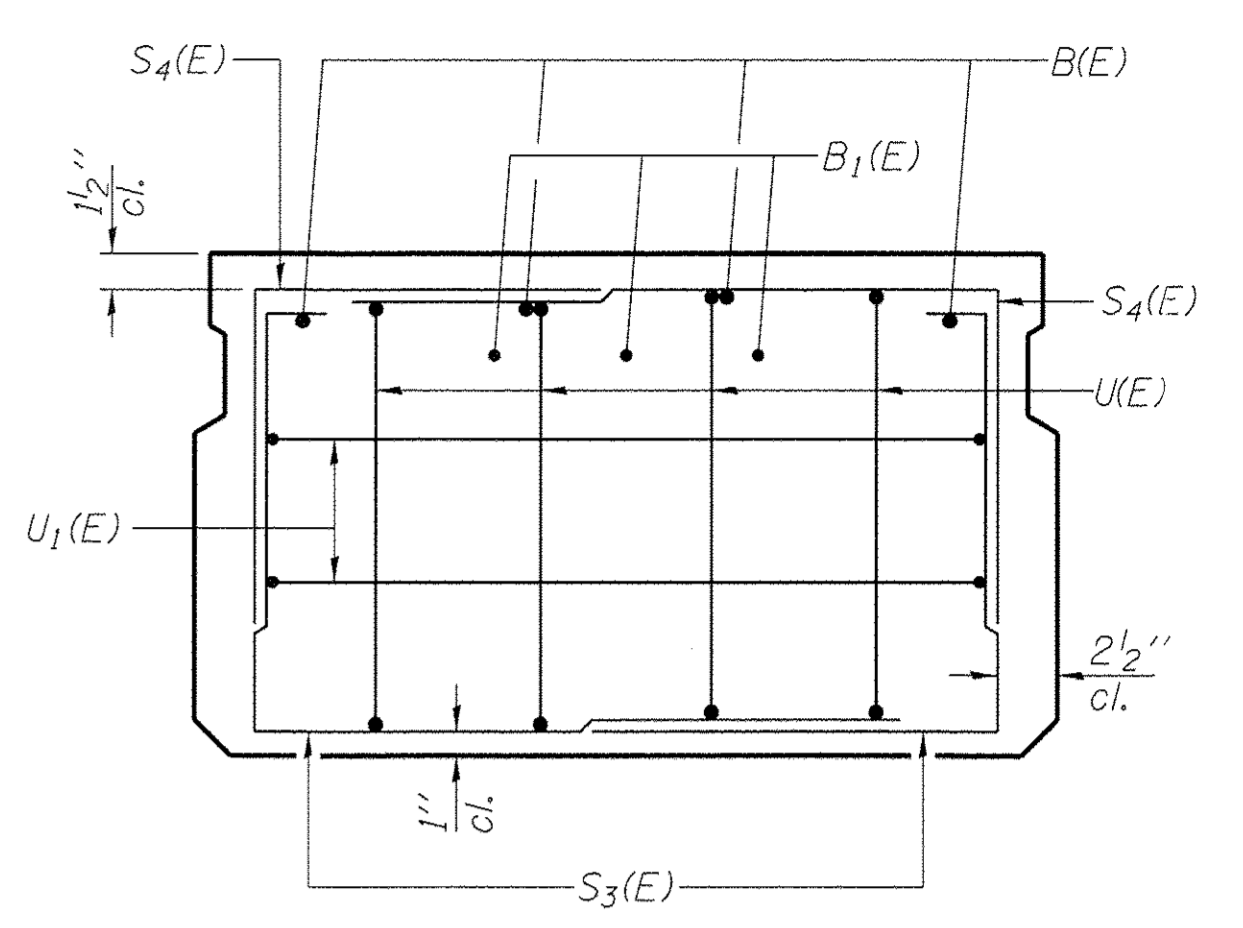
(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.



SECTION B-B

(Showing dimensions)

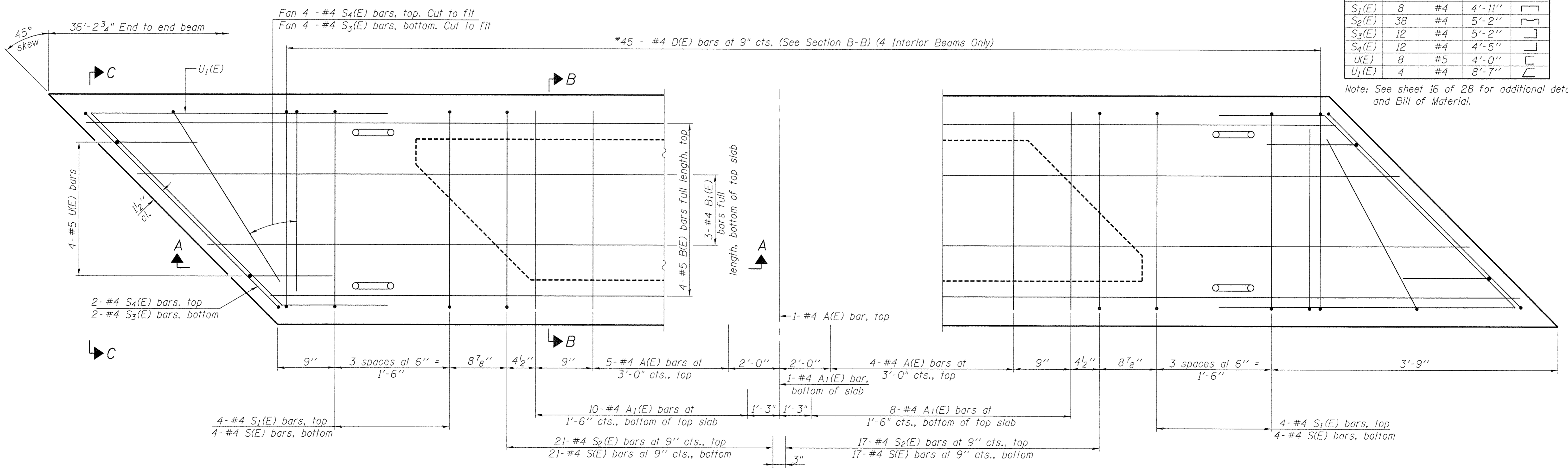


VIEW C-C

BAR LIST  
ONE BEAM ONLY  
(For information only)

Bar	No.	Size	Length	Shape
A(E)	10	#4	2'-7"	—
A1(E)	19	#4	2'-10"	~
B(E)	4	#5	35'-10"	—
B1(E)	3	#4	35'-10"	—
*D(E)	45	#4	4'-7"	⊏
S(E)	46	#4	6'-5"	⊏
S1(E)	8	#4	4'-11"	⊏
S2(E)	38	#4	5'-2"	⊏
S3(E)	12	#4	5'-2"	⊏
S4(E)	12	#4	4'-5"	⊏
U(E)	8	#5	4'-0"	⊏
U1(E)	4	#4	8'-7"	⊏

Note: See sheet 16 of 28 for additional details and Bill of Material.



PLAN VIEW

MINIMUM BAR LAP

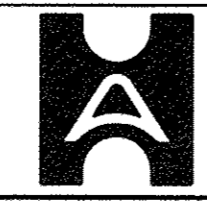
#4 bar = 2'-0"  
#5 bar = 2'-6"

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

PD-2136-R

7-1-10

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

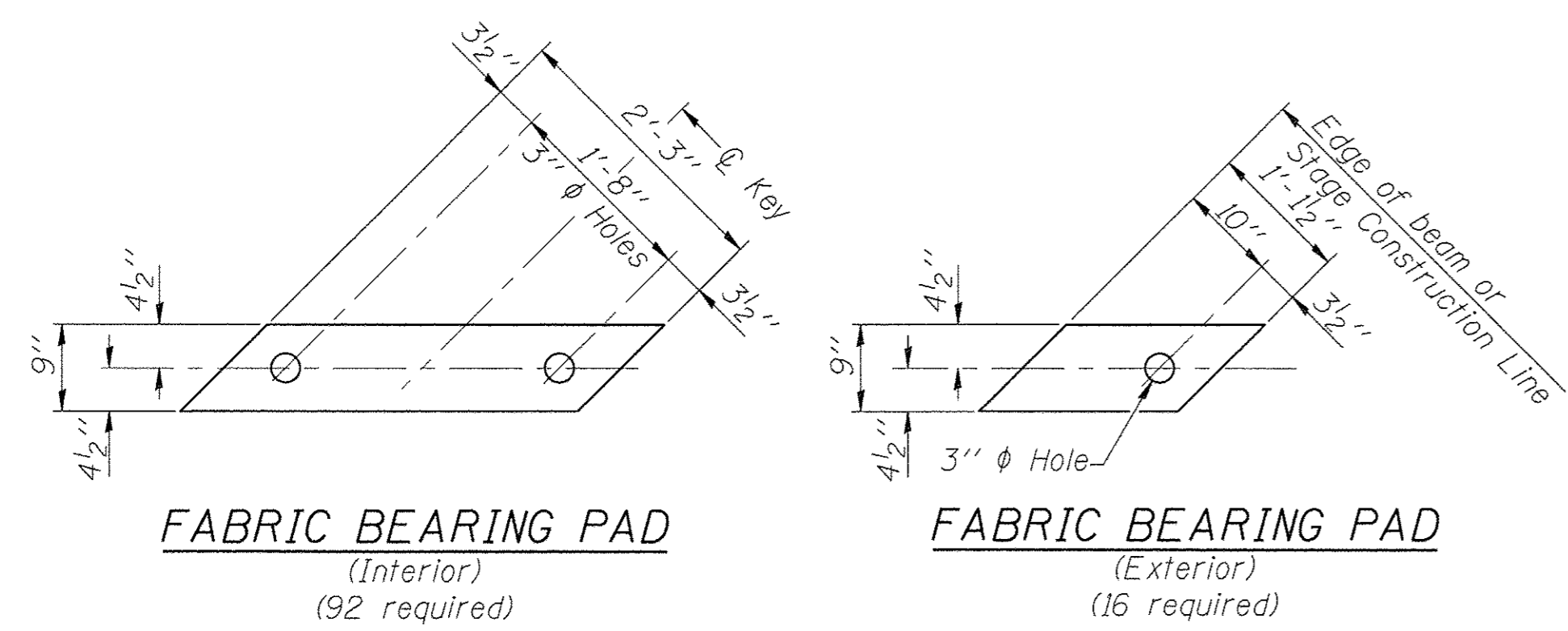


Allen Henderson & Associates, Inc.  
Civil and Structural Engineers Springfield, IL  
62703 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

21" X 36" PPC DECK BEAM (SPANS 1 & 3)  
STRUCTURE NO. 084-6019

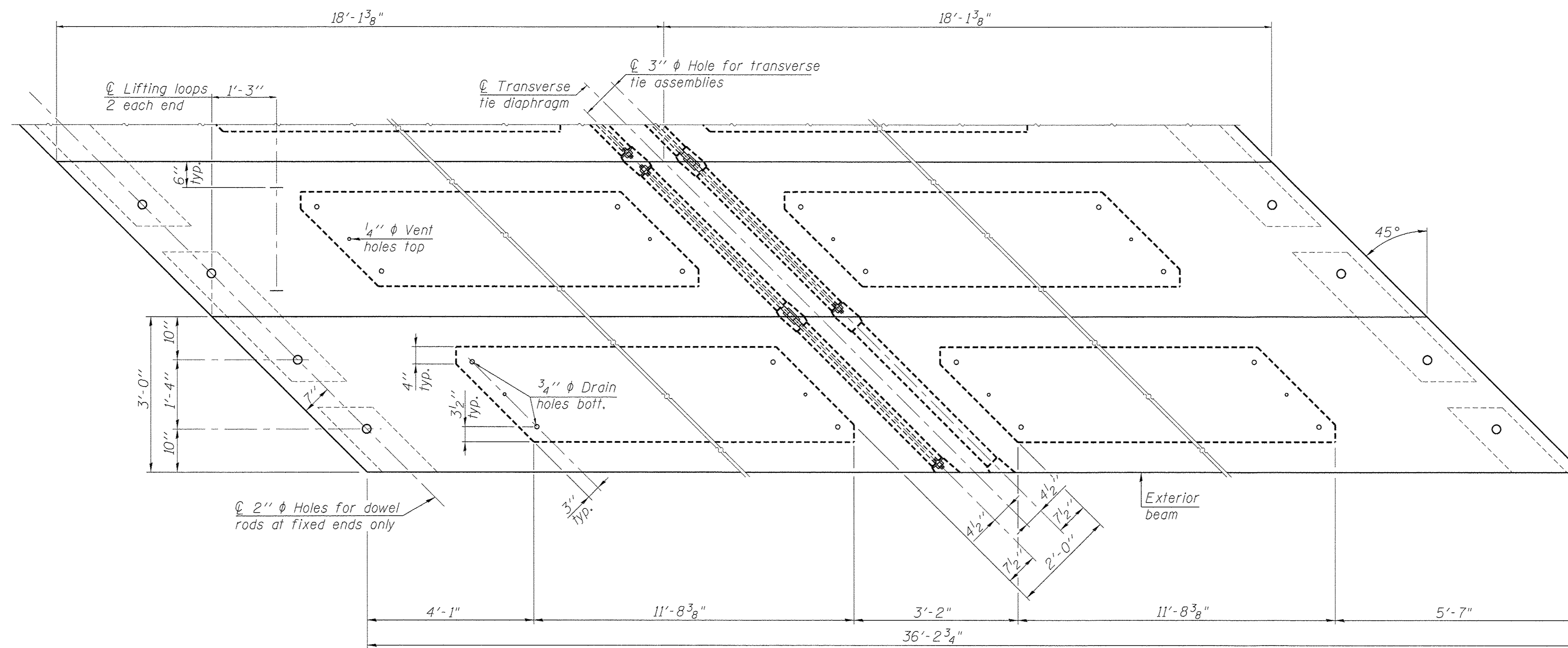
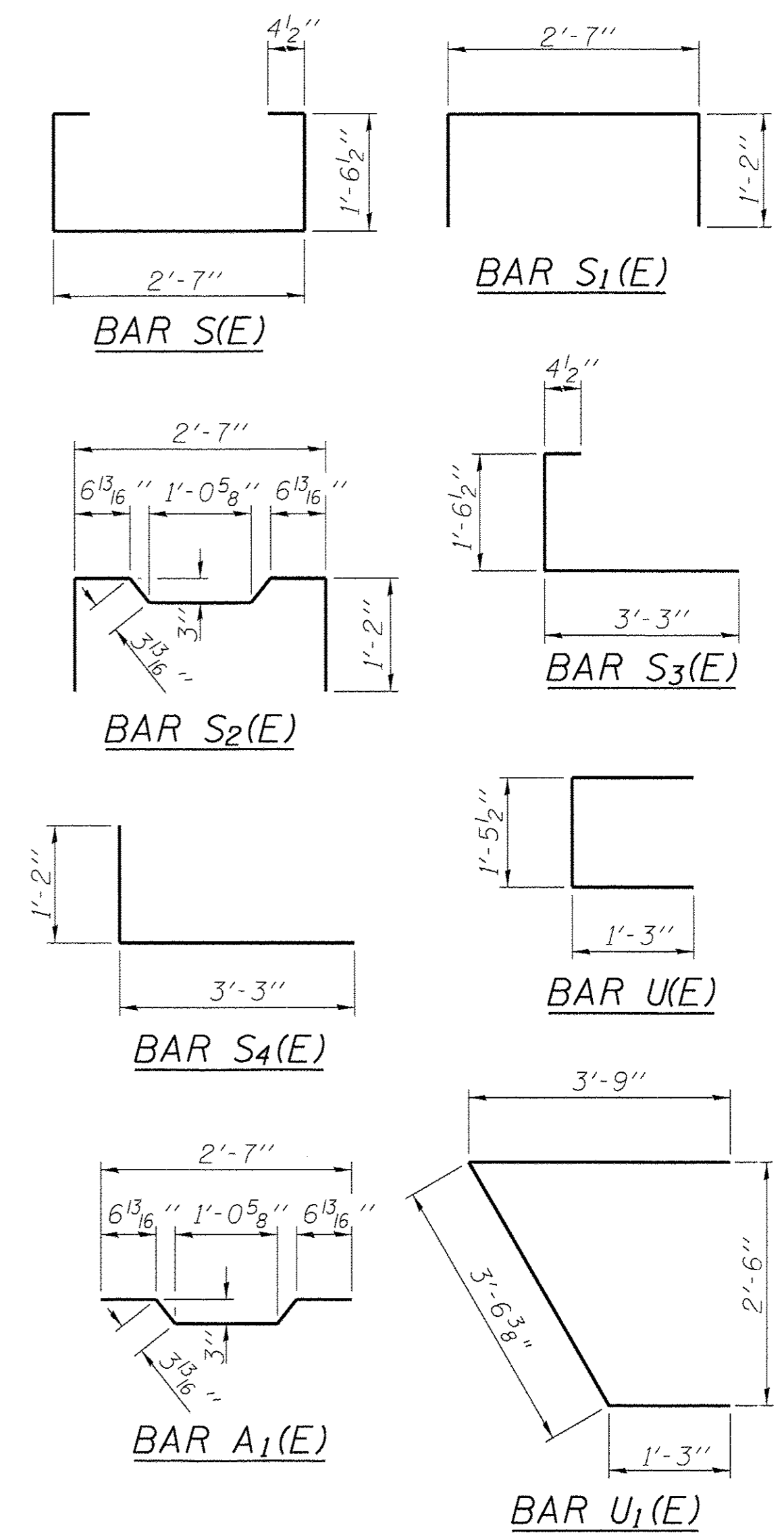
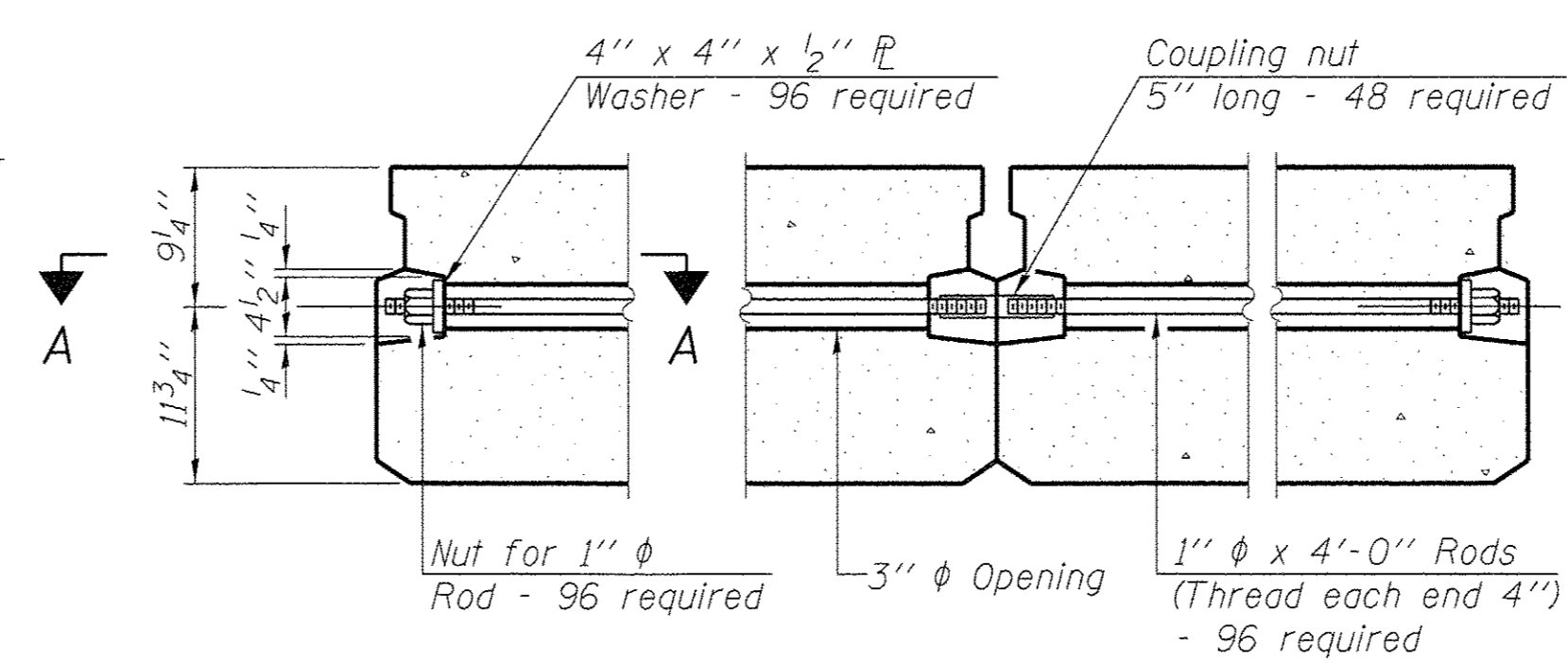
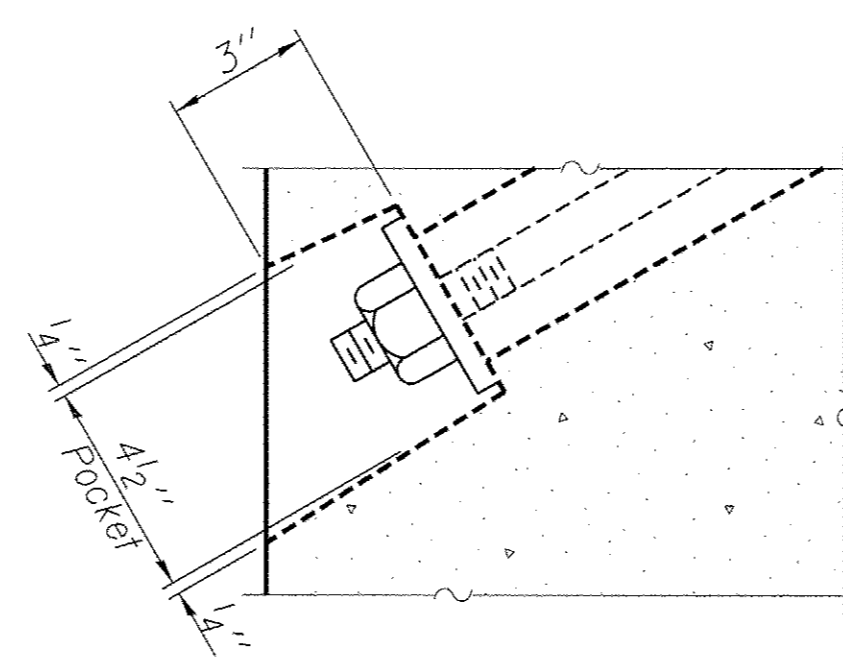
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	55
			CONTRACT NO. 93600	
[ILLINOIS] FED. AID PROJECT				

SHEET NO. 15 OF 28 SHEETS



**FIXED**

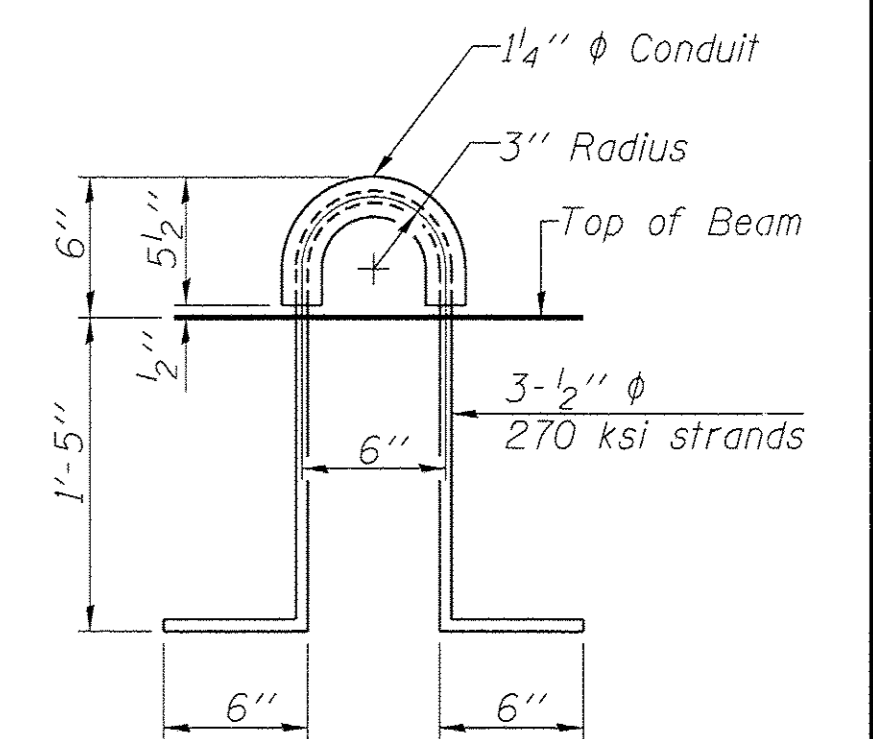
Notes:  
All bearing pads shall be 1" thick.



Note: Connect beams in pairs with the transverse tie configuration shown.

**NOTES**

The beams shall not be released from the fabricator until they have attained 60 days of age or older.  
 Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.  
 The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.  
 The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.  
 Reinforcement bars shall conform to ASTM A 706, Grade 60.  
 Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.  
 A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling.  
 Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.  
 Compressive strength of prestressed concrete, f'c, shall be 6000 psi.  
 Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



**BILL OF MATERIAL**

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	5435
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PD-2136-RD

7-1-10

FILE NAME =	USER NAME =	DESIGNED -	REVISD -
		CHECKED -	REVISD -
		DRAWN -	REVISD -
		CHECKED -	REVISD -



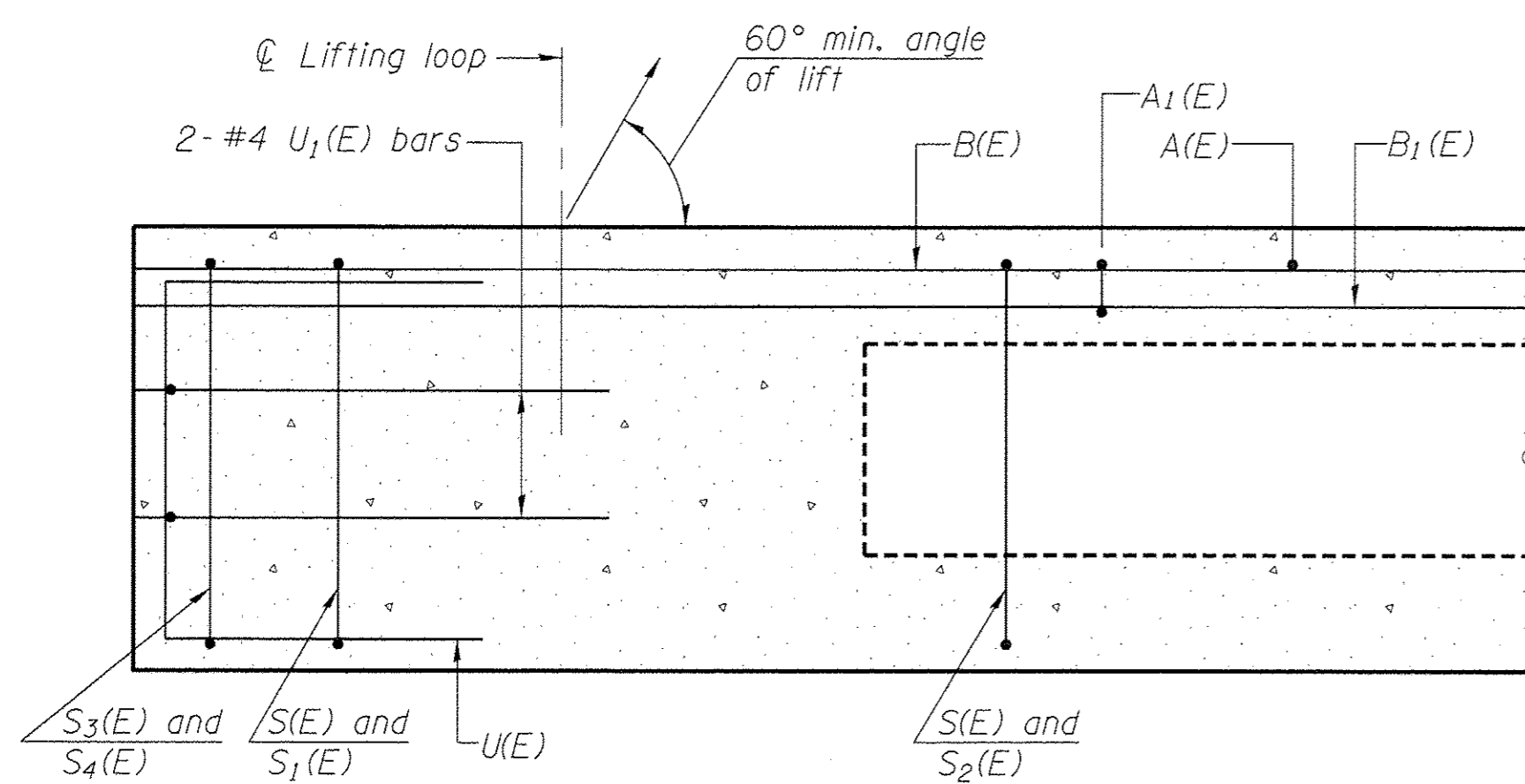
**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL.  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

**21" X 36" PPC DECK BEAM DETAILS (SPANS 1 & 3)**  
**STRUCTURE NO. 084-6019**

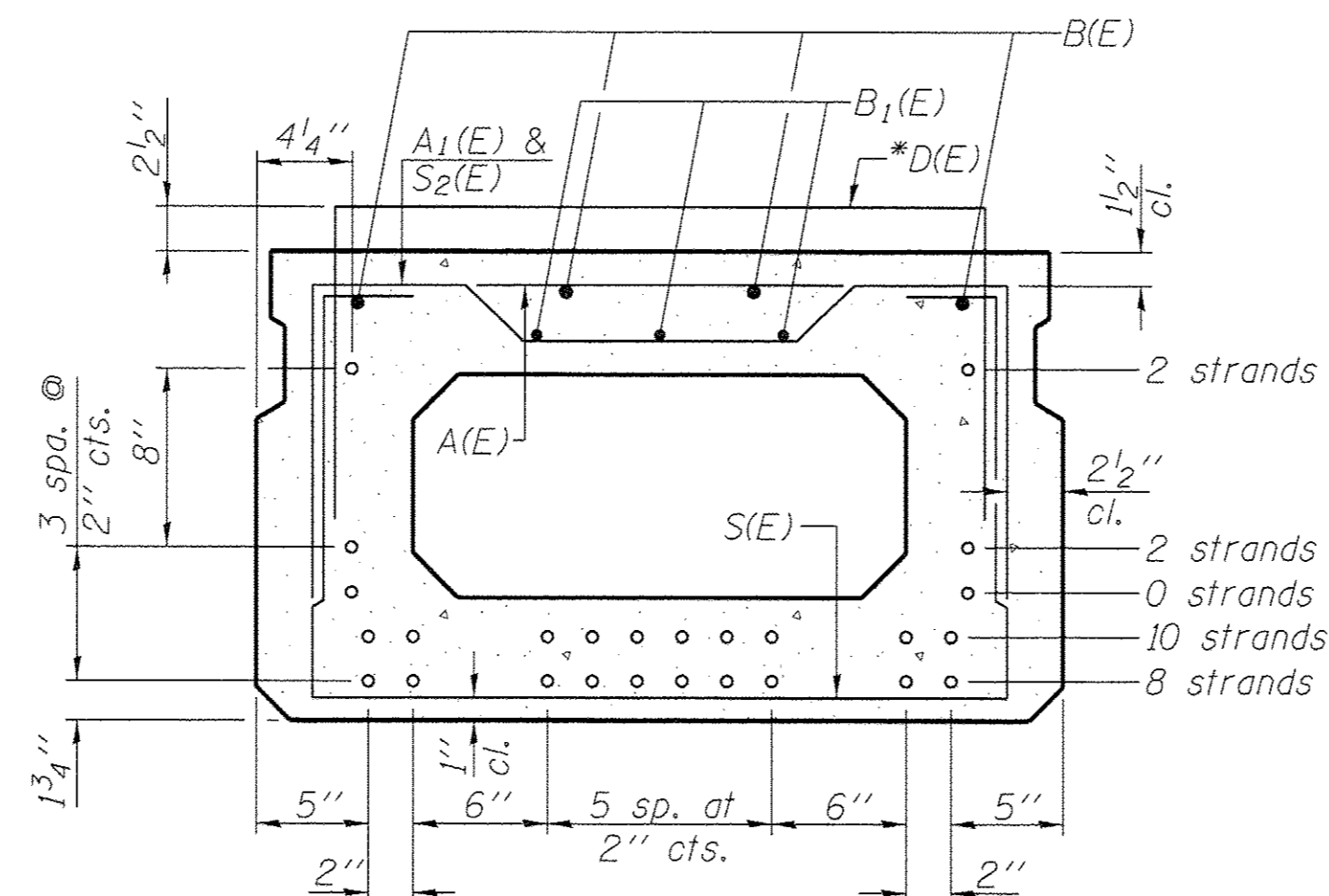
SHEET NO. 16 OF 28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	56
CONTRACT NO. 93600			ILLINOIS FED. AID PROJECT	





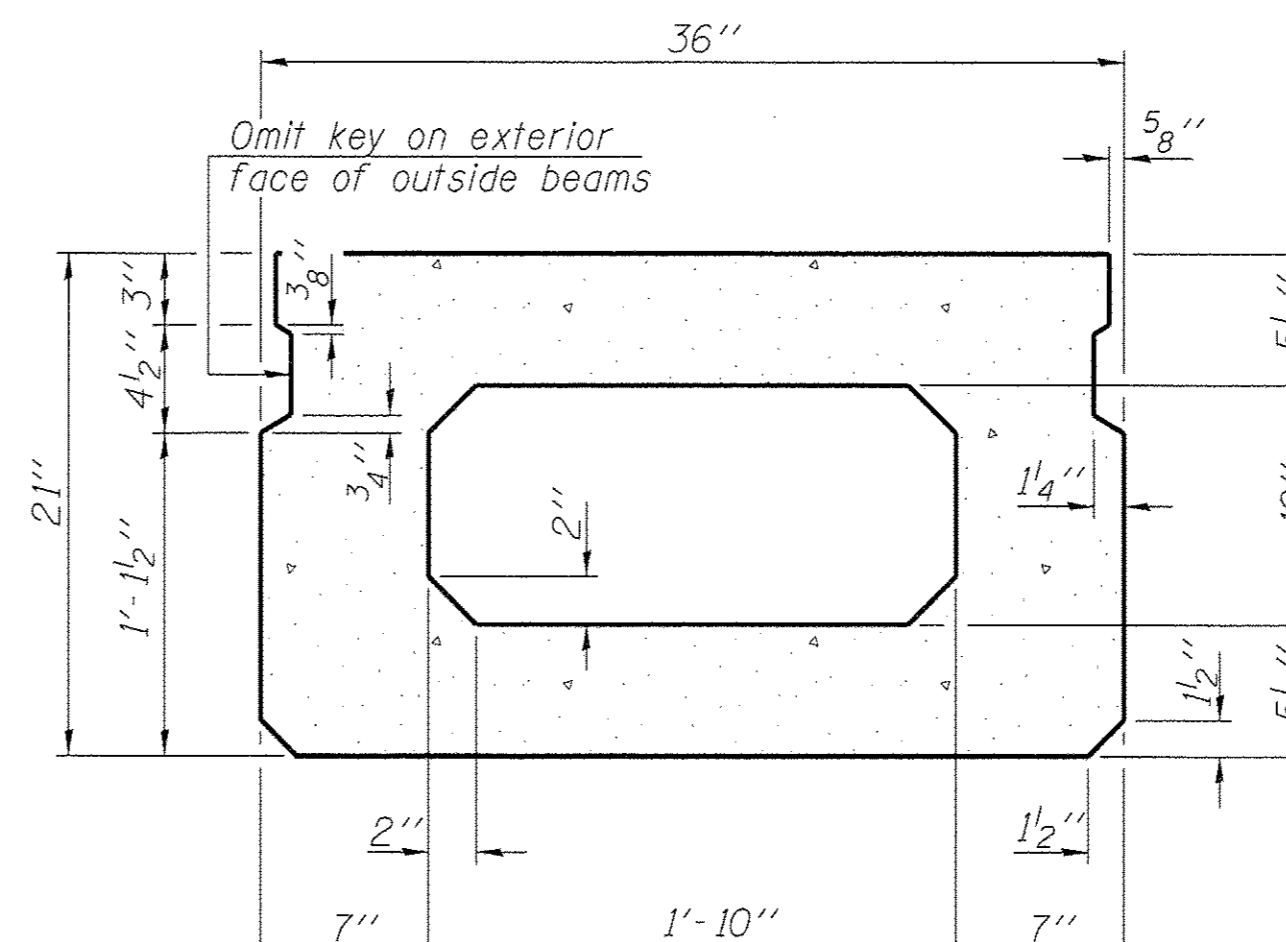
SECTION A-A



SECTION B-B

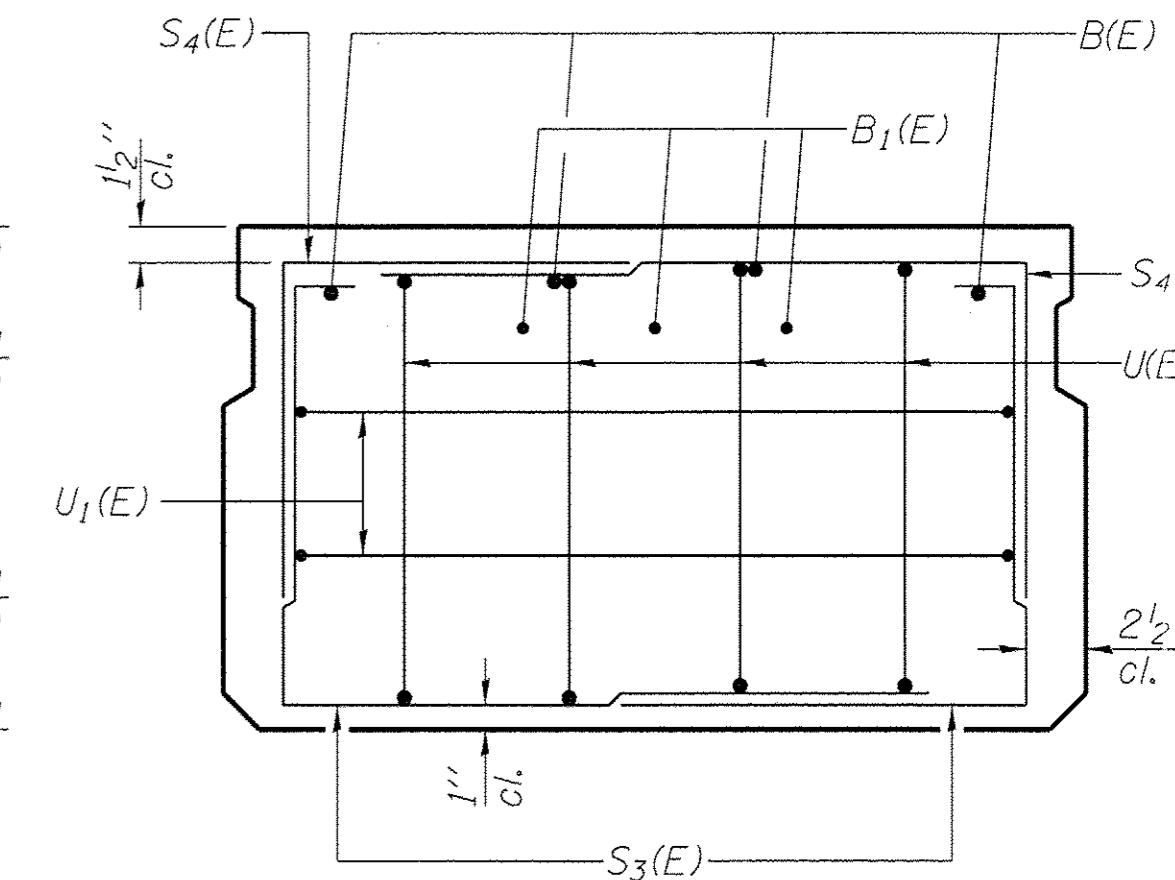
(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.



SECTION B-B

(Showing dimensions)



VIEW C-C

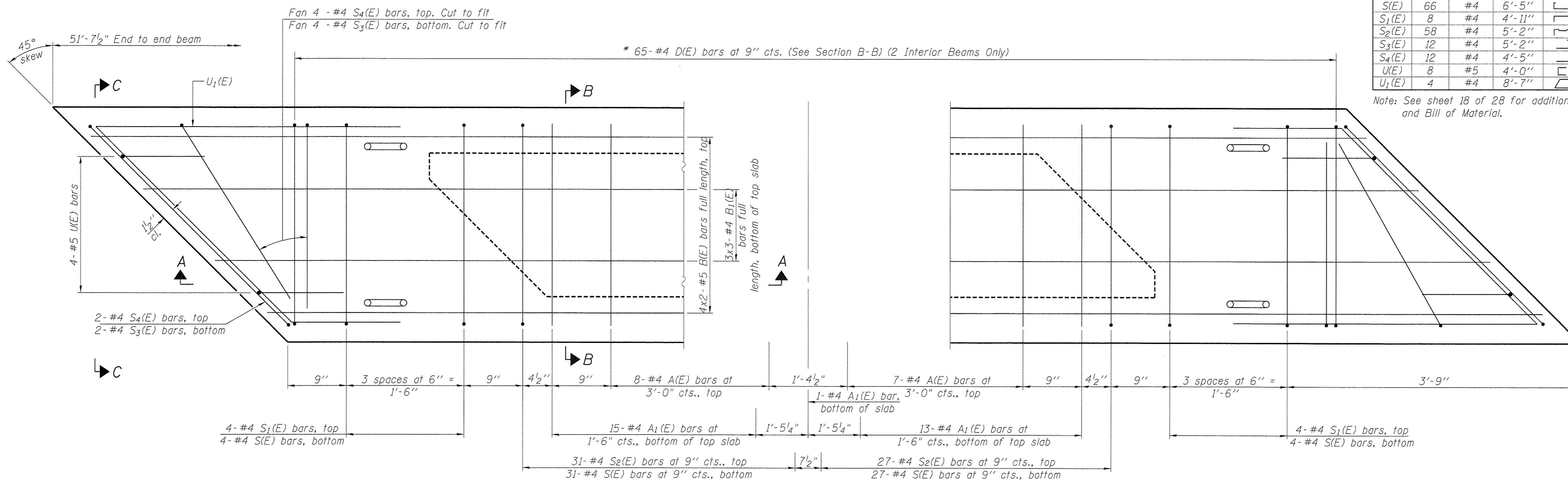
BAR LIST  
ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)	15	#4	2'-7"	—
A1(E)	29	#4	2'-10"	~
B(E)	8	#5	27'-1"	—
B1(E)	9	#4	19'-7"	—
D(E)	65	#4	4'-7"	□
S(E)	66	#4	6'-5"	□
S1(E)	8	#4	4'-11"	□
S2(E)	58	#4	5'-2"	□
S3(E)	12	#4	5'-2"	□
S4(E)	12	#4	4'-5"	□
U(E)	8	#5	4'-0"	□
U1(E)	4	#4	8'-7"	□

Note: See sheet 18 of 28 for additional details and Bill of Material.

\* For dimensions of D(E) bar See Sheet 9 of 28.



PLAN VIEW

MINIMUM BAR LAP

#4 bar = 2'-0"  
#5 bar = 2'-6"

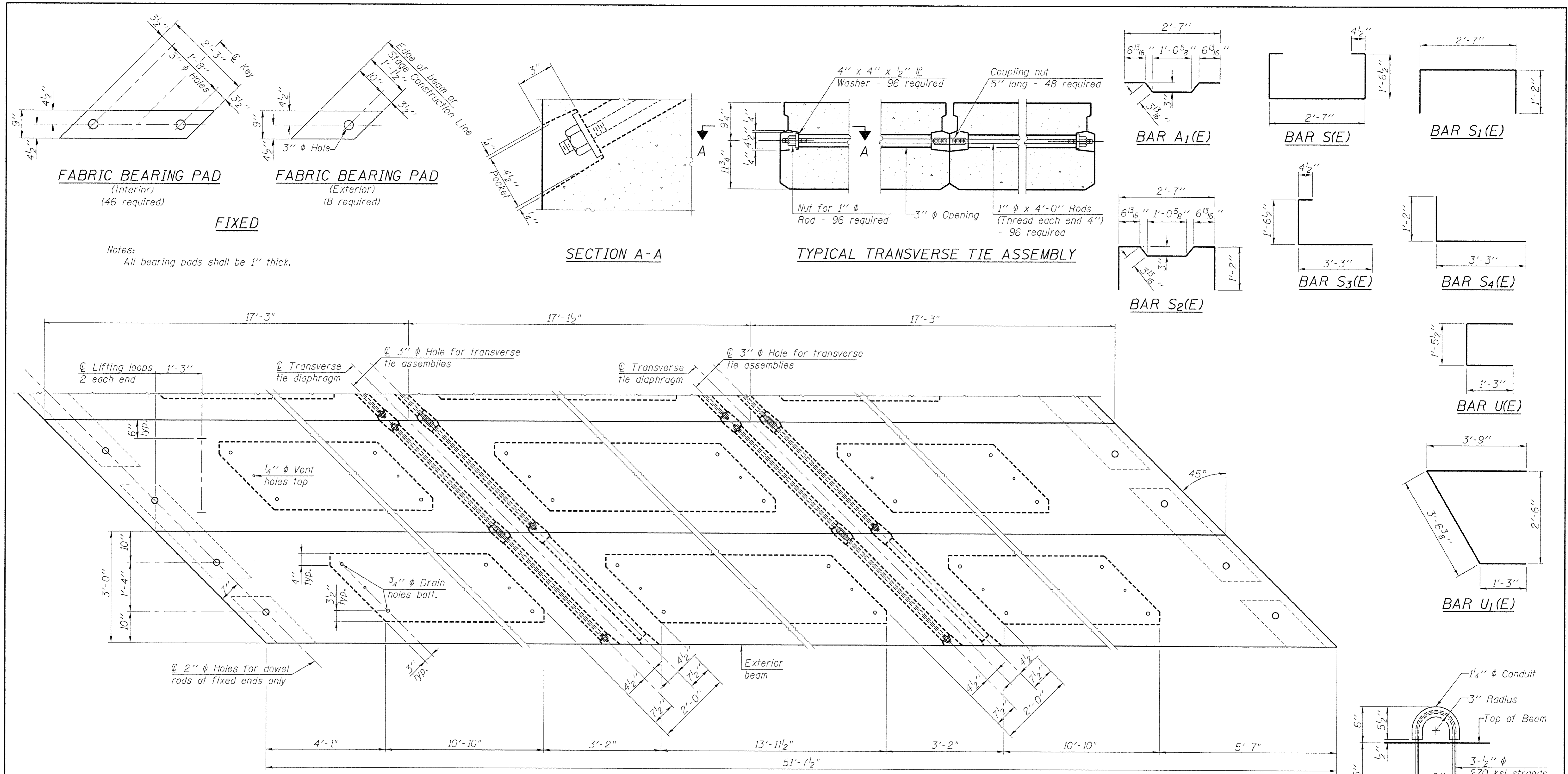
Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

PD-2136-R

7-1-10

FILE NAME *	USER NAME *	DESIGNED -	REVISOR -	<p>Allen Henderson &amp; Associates, Inc. Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907</p>	<p>21" X 36" PPC DECK BEAM (SPAN 2) STRUCTURE NO. 084-6019</p>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -	REVISOR -			8006	10-00470-00-BR	SANGAMON	90	57	
		PLOT SCALE =	REVISOR -			CONTRACT NO. 93600					
		PLOT DATE =	REVISOR -			SHEET NO. 17 OF 28 SHEETS					

ILLINOIS FED. AID PROJECT



Notes:  
All bearing pads shall be 1" thick.

Note: Connect beams in pairs with the transverse tie configuration shown.

**NOTES**

The beams shall not be released from the fabricator until they have attained 60 days of age or older.  
 Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.  
 The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.  
 The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.  
 Reinforcement bars shall conform to ASTM A 706, Grade 60.  
 Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.  
 A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.  
 Corrosion inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.  
 Compressive strength of prestressed concrete, f'c, shall be 6000 psi.  
 Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

**BILL OF MATERIAL**

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	3872
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PD-2136-RD 7-1-10

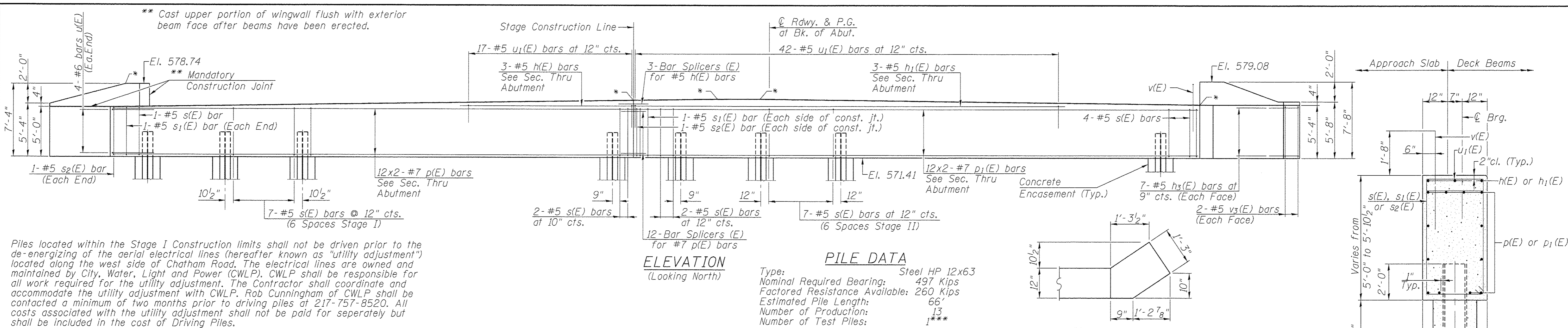
FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
PLOT SCALE =		DRAWN -	REVISED -
PLOT DATE =		CHECKED -	REVISED -

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

**21" X 36" PPC DECK BEAM DETAILS (SPAN 2)**  
**STRUCTURE NO. 084-6019**  
 SHEET NO. 18 OF 28 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	58
				CONTRACT NO. 93600
ILLINOIS FED. AID PROJECT				





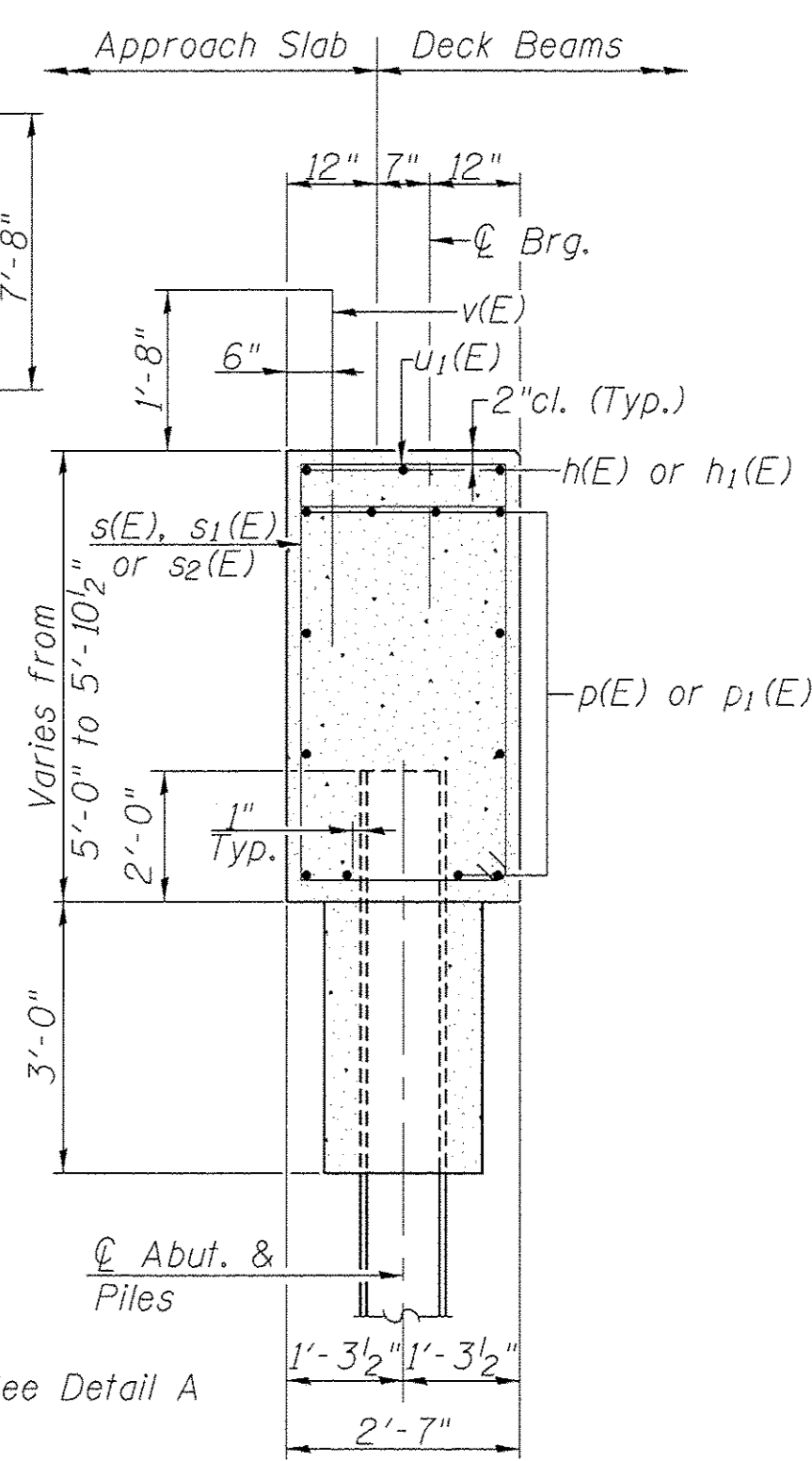
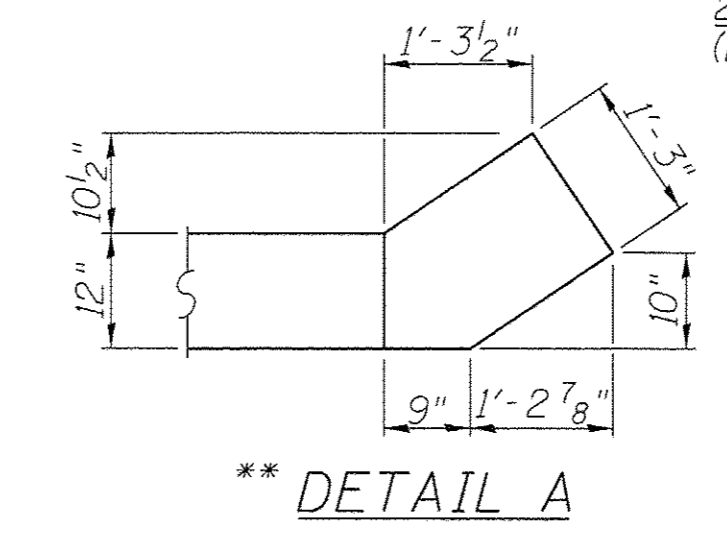
Piles located within the Stage I Construction limits shall not be driven prior to the de-energizing of the aerial electrical lines (hereafter known as "utility adjustment") located along the west side of Chatham Road. The electrical lines are owned and maintained by City, Water, Light and Power (CWLP). CWLP shall be responsible for all work required for the utility adjustment. The Contractor shall coordinate and accommodate the utility adjustment with CWLP. Rob Cunningham of CWLP shall be contacted a minimum of two months prior to driving piles at 217-757-8520. All costs associated with the utility adjustment shall not be paid for separately but shall be included in the cost of Driving Piles.

**ELEVATION**  
(Looking North)

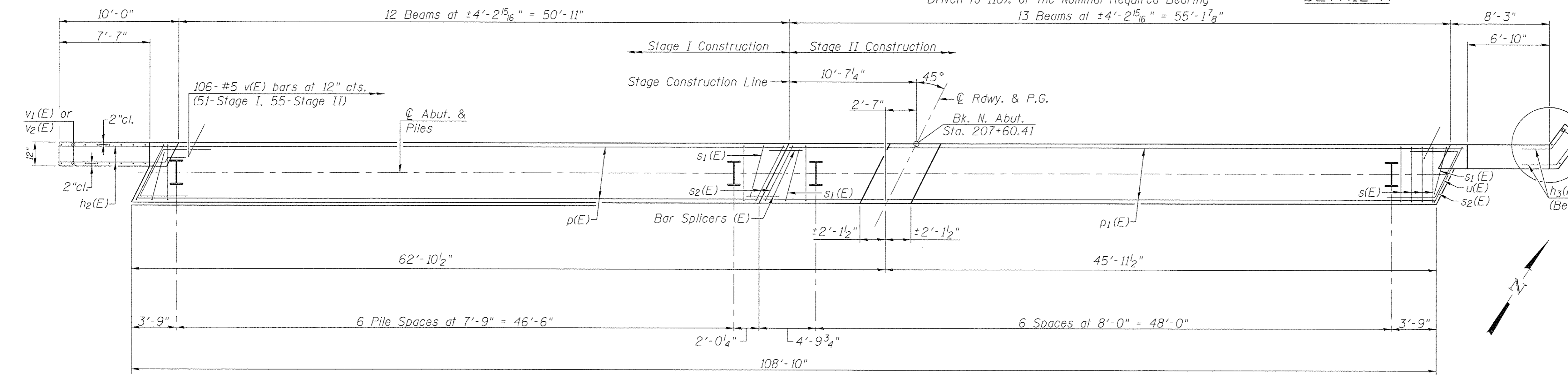
**PILE DATA**

Type: Steel HP 12x63  
 Nominal Required Bearing: 497 Kips  
 Factored Resistance Available: 260 Kips  
 Estimated Pile Length: 66'  
 Number of Production: 13  
 Number of Test Piles: 1\*\*\*

\*\*\* Driven to 110% of the Nominal Required Bearing

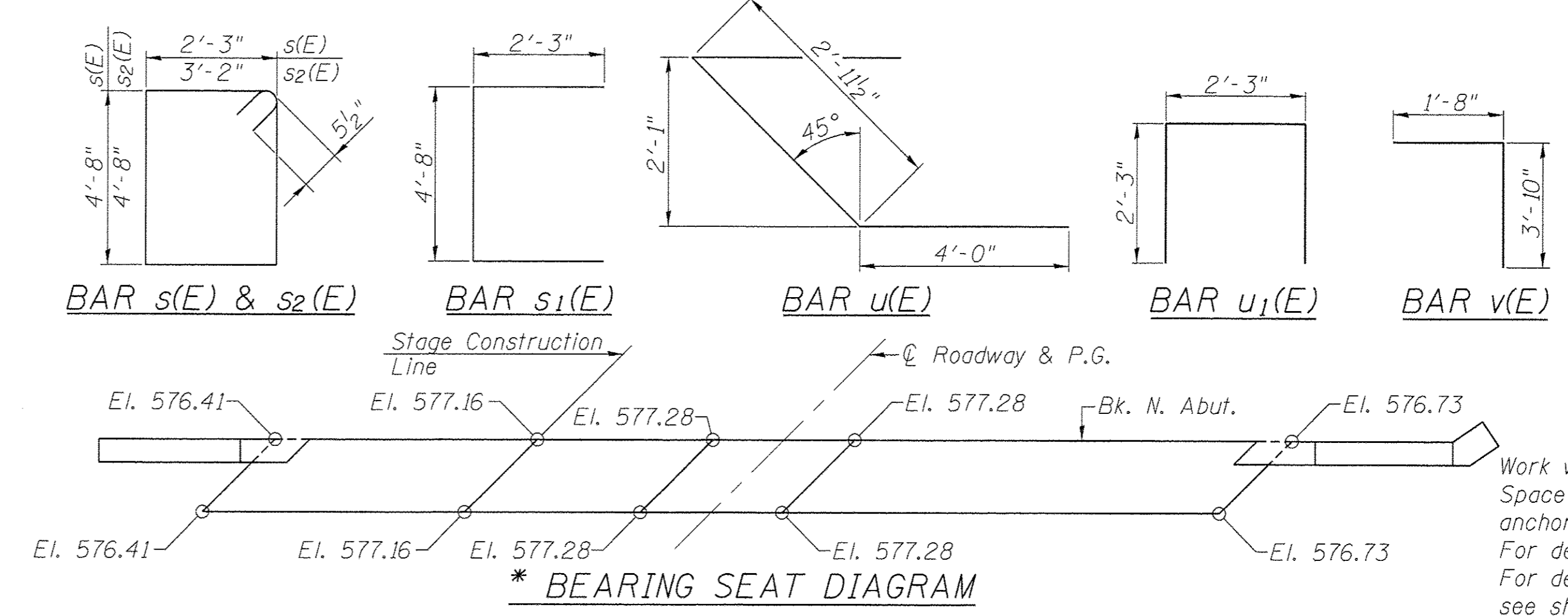
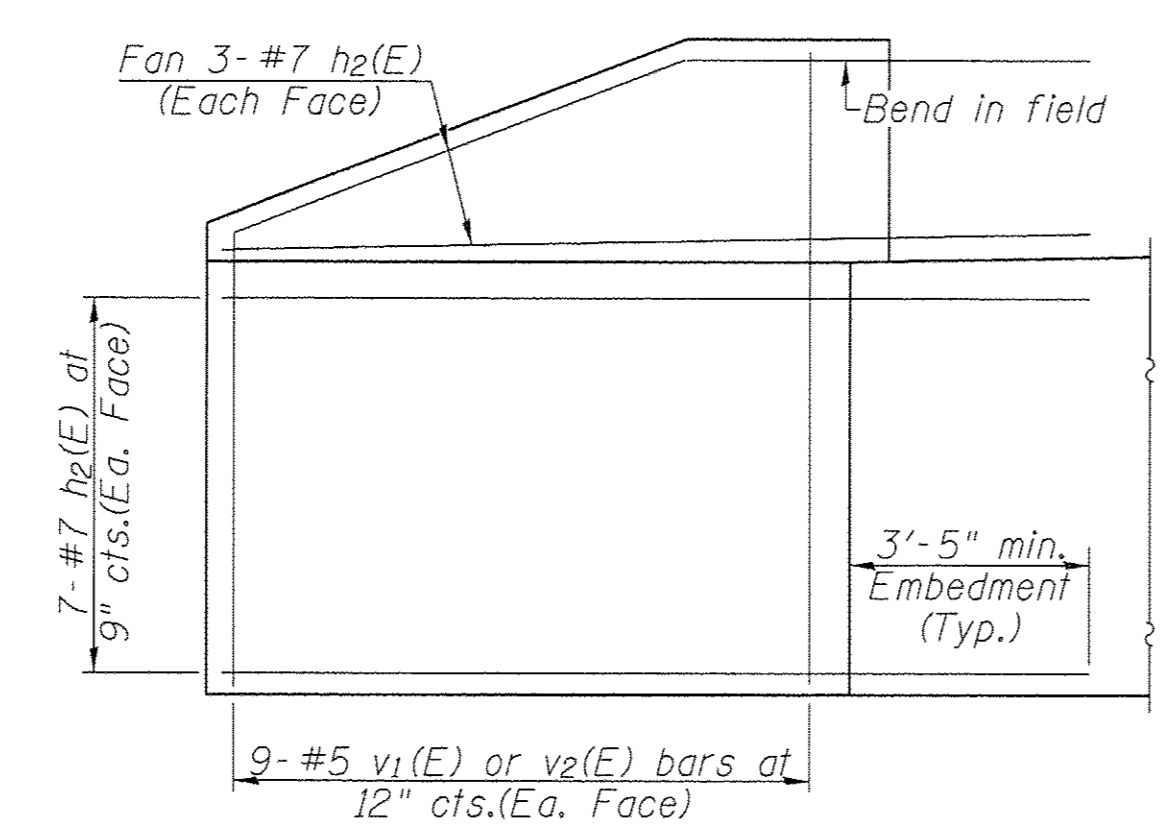
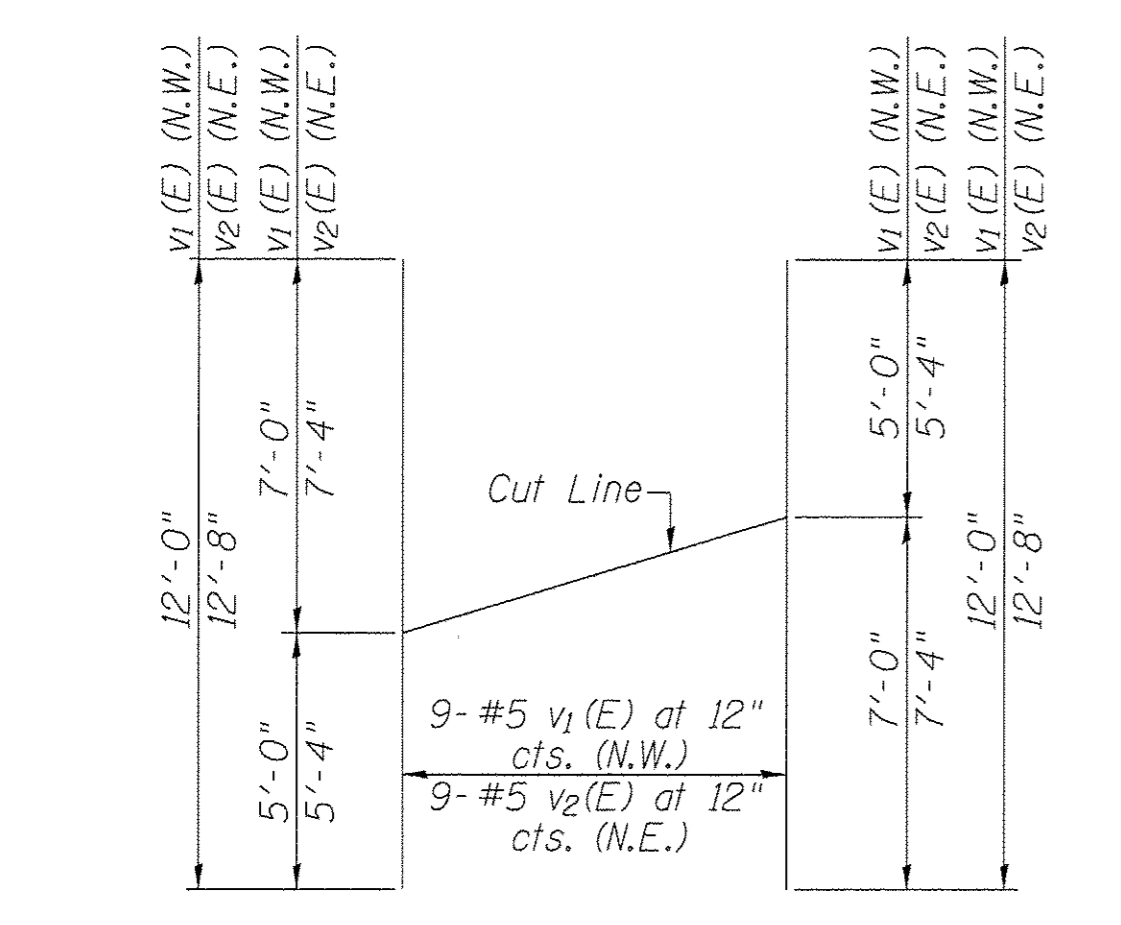


Bar	No.	Size	Length	Shape
h(E)	3	#5	16'-3"	—
h1(E)	3	#5	41'-3"	—
h2(E)	40	#7	13'-8"	—
h3(E)	14	#5	5'-6"	—
p(E)	24	#7	29'-0"	—
p1(E)	24	#7	31'-0"	—
s(E)	93	#5	14'-9"	□
s1(E)	4	#5	9'-2"	□
s2(E)	4	#5	16'-7"	□
u(E)	8	#6	11'-0"	—
u1(E)	59	#5	6'-9"	—
v(E)	106	#5	5'-6"	—
v1(E)	18	#5	12'-0"	—
v2(E)	18	#5	12'-8"	—
v3(E)	4	#5	5'-4"	—
Structure Excavation	Cu. Yd.		50	
Concrete Structures	Cu. Yd.		62.0	
Reinforcement Bars, Epoxy Coated	Pound		7510	
Furnishing Steel Piles HP 12x63	Foot		858	
Driving Piles	Foot		858	
Test Pile, Steel HP 12x63	Each		1	
Concrete Encasement	Cu. Yd.		4.9	

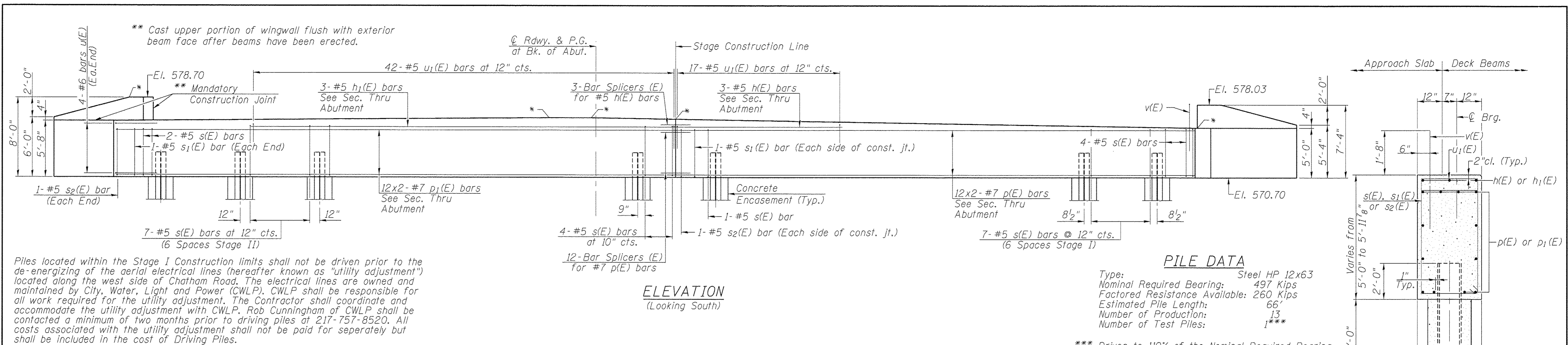


**PLAN**

\*\*The contractor shall field verify the location of the existing retaining wall and the proposed dimensions and make necessary approved adjustments prior to construction or ordering of materials. Adjustments shall not be cause for additional compensation for a change in scope of the work, however, the contractor will be paid for the quantity actually furnished at the unit price bid for the work.

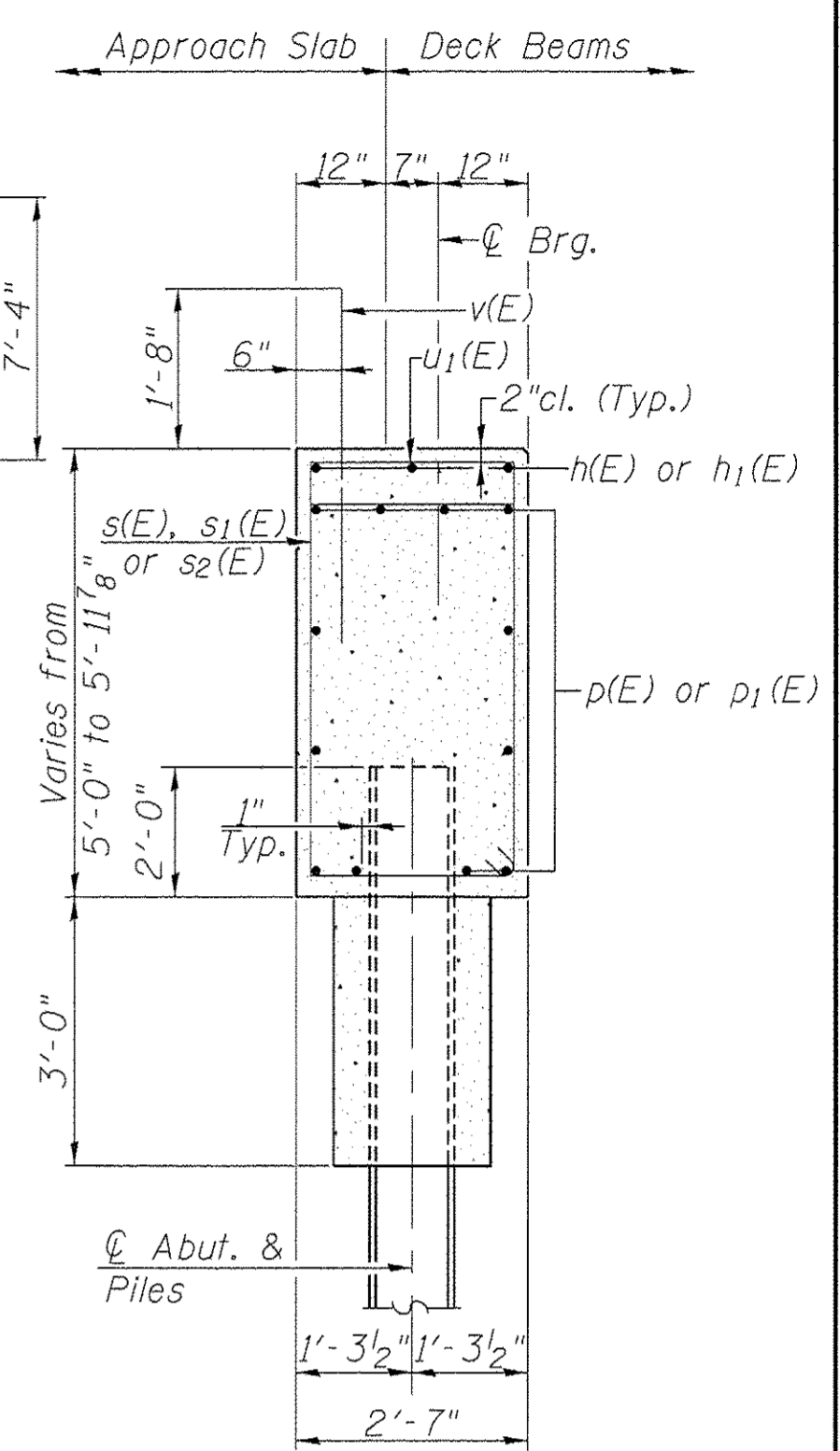


Work with sheet 23 of 28  
 Space reinforcement in cap to miss beam anchor dowels.  
 For details of Bar Splicers, see sheet 25 of 28.  
 For details of piles and Concrete Encasement, see sheet 24 of 28.



Piles located within the Stage I Construction limits shall not be driven prior to the de-energizing of the aerial electrical lines (hereafter known as "utility adjustment") located along the west side of Chatham Road. The electrical lines are owned and maintained by City, Water, Light and Power (CWLP). CWLP shall be responsible for all work required for the utility adjustment. The Contractor shall coordinate and accommodate the utility adjustment with CWLP. Rob Cunningham of CWLP shall be contacted a minimum of two months prior to driving piles at 217-757-8520. All costs associated with the utility adjustment shall not be paid for separately but shall be included in the cost of Driving Piles.

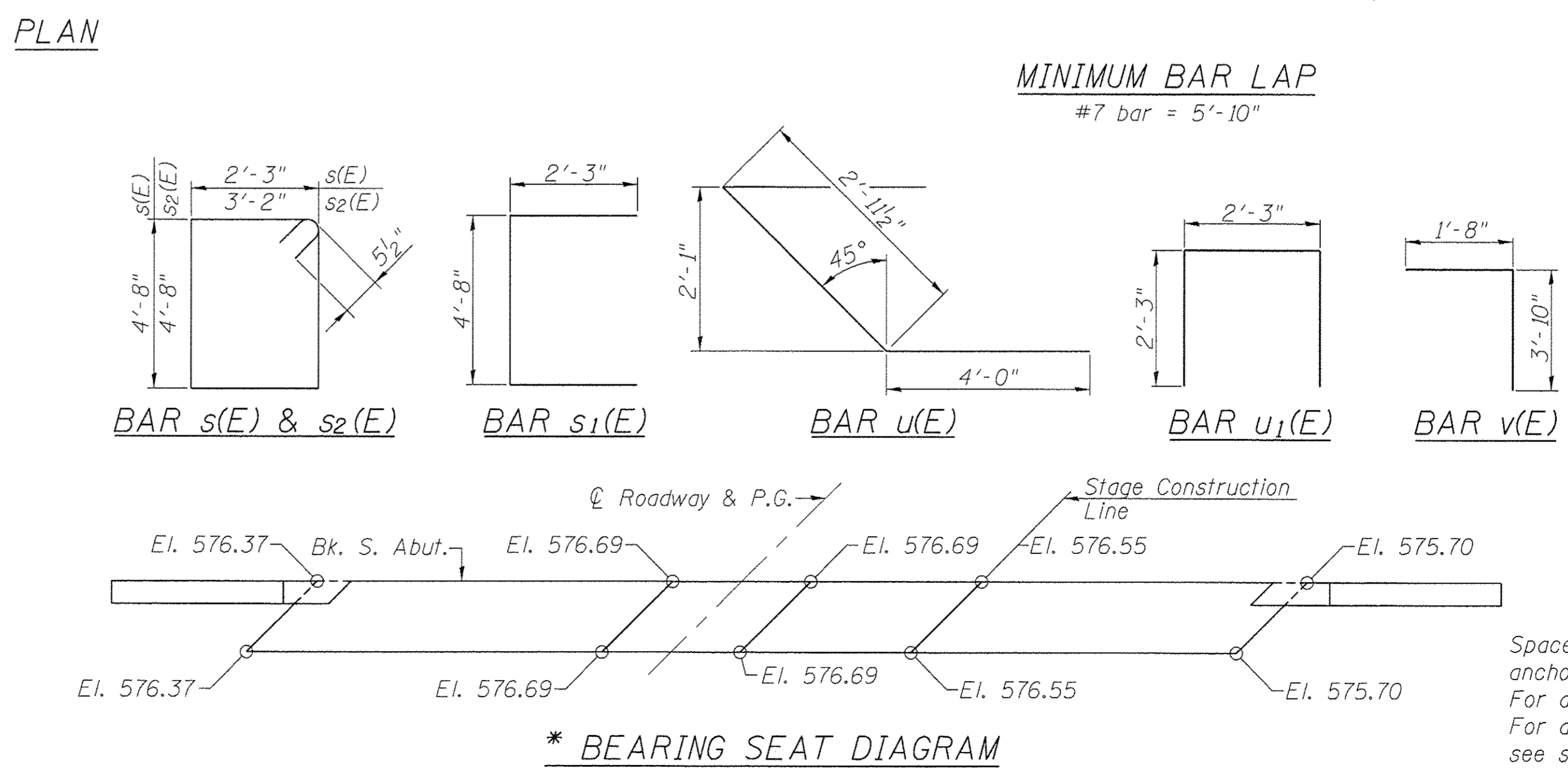
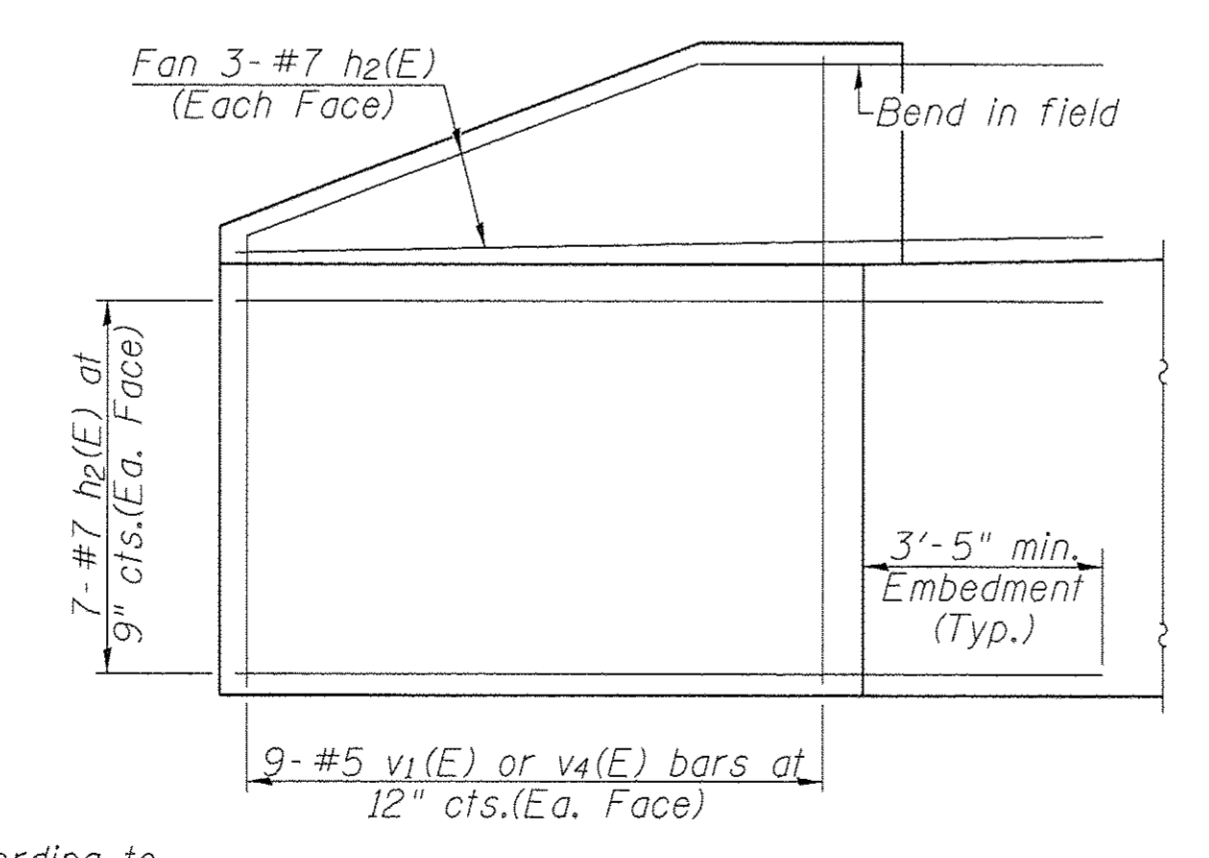
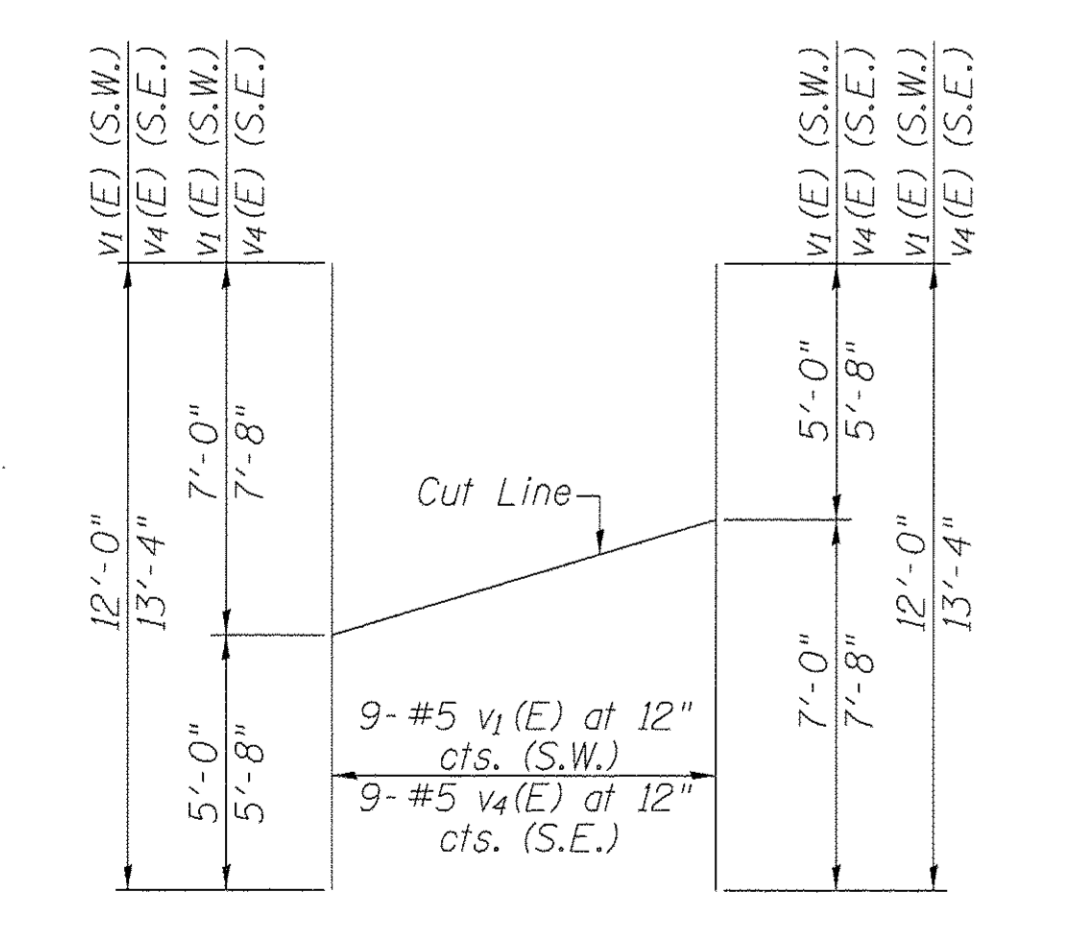
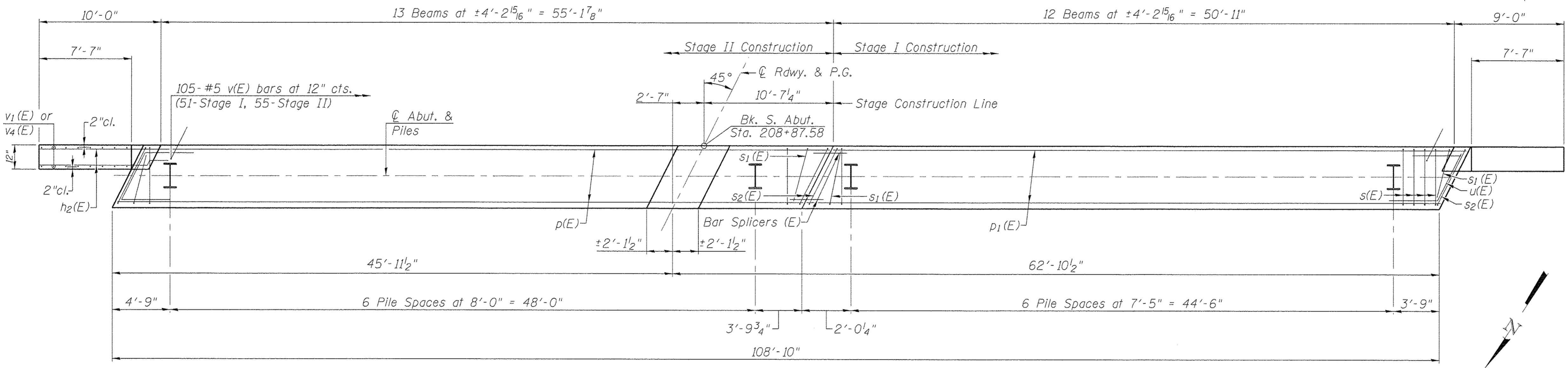
**PILE DATA**  
 Type: Steel HP 12x63  
 Nominal Required Bearing: 497 Kips  
 Factored Resistance Available: 260 Kips  
 Estimated Pile Length: 66'  
 Number of Production: 13  
 Number of Test Piles: 1\*\*\*  
 \*\*\* Driven to 110% of the Nominal Required Bearing



**SECTION THRU ABUT.**  
(Dimensions are at Rt. L's)

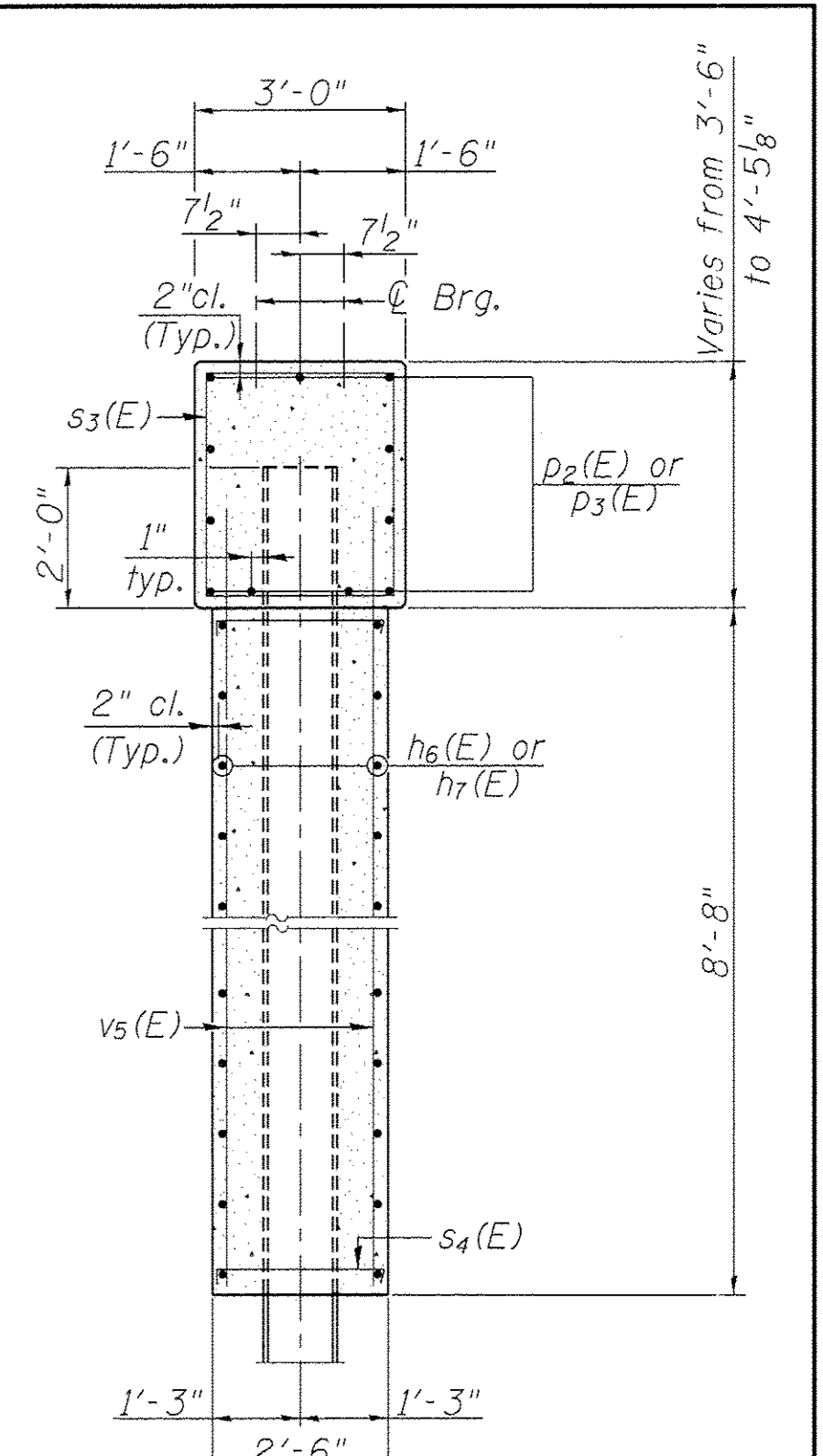
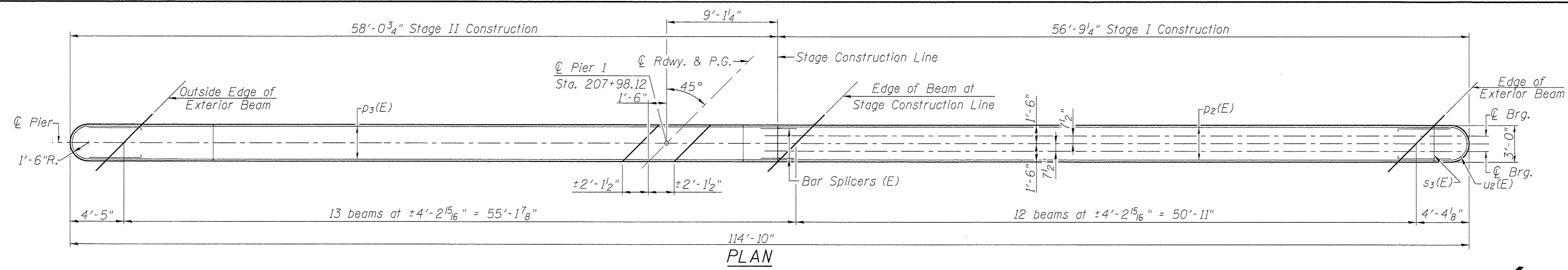
**SOUTH ABUTMENT BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	3	#5	16'-3"	—
h1(E)	3	#5	41'-3"	—
h2(E)	40	#7	13'-8"	—
p(E)	24	#7	29'-0"	—
p1(E)	24	#7	31'-0"	—
s(E)	95	#5	14'-9"	□
s1(E)	4	#5	9'-2"	□
s2(E)	4	#5	16'-7"	□
u(E)	8	#6	11'-0"	—
u1(E)	59	#5	6'-9"	—
v(E)	106	#5	5'-6"	—
v1(E)	18	#5	12'-0"	—
v4(E)	18	#5	13'-4"	—
Structure Excavation		Cu. Yd.	50	
Concrete Structures		Cu. Yd.	63.1	
Reinforcement Bars, Epoxy Coated		Pound	7450	
Furnishing Steel Piles HP 12x63		Foot	858	
Driving Piles		Foot	858	
Test Pile, Steel HP 12x63		Each	1	
Concrete Encasement		Cu. Yd.	4.9	



Space reinforcement in cap to miss beam anchor dowels.  
 For details of Bar Splicers, see sheet 25 of 28.  
 For details of piles and Concrete Encasement, see sheet 24 of 28.





**PILE DATA**

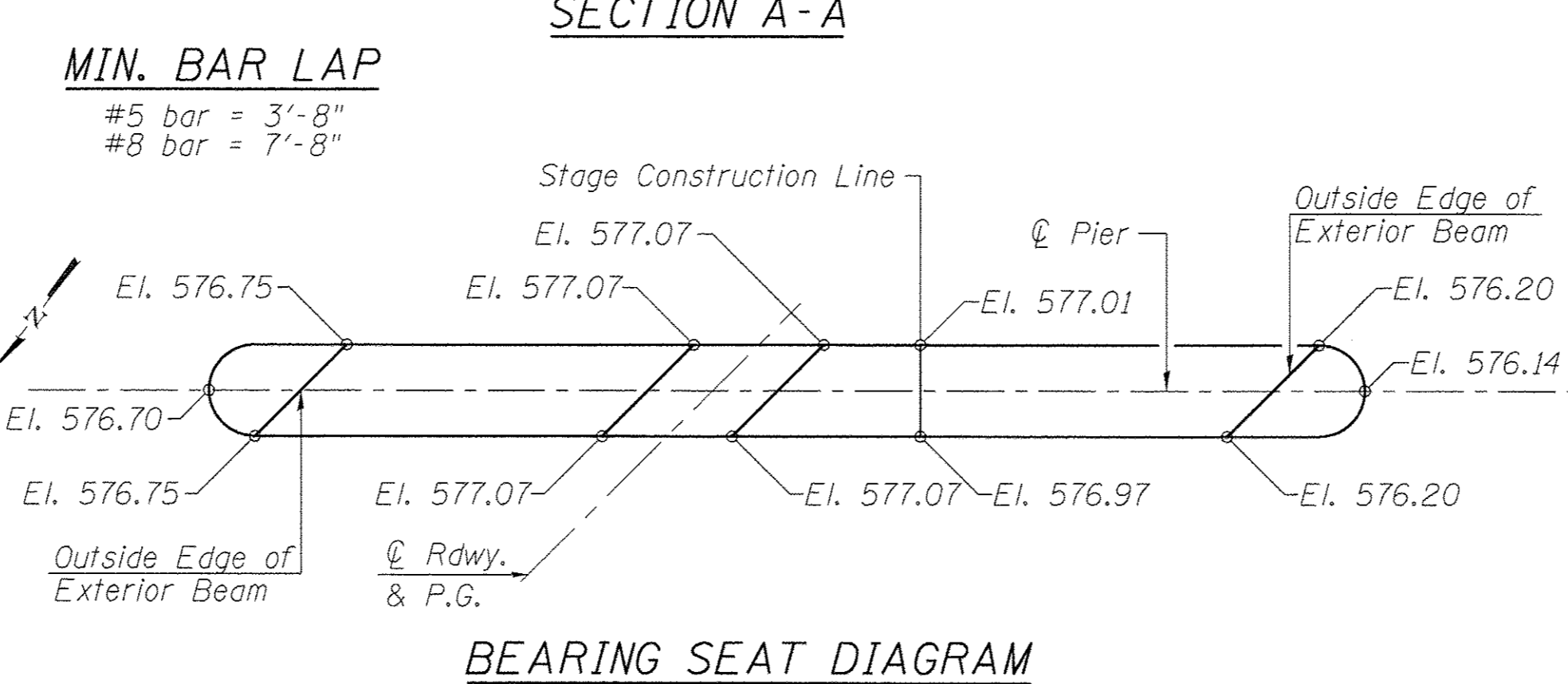
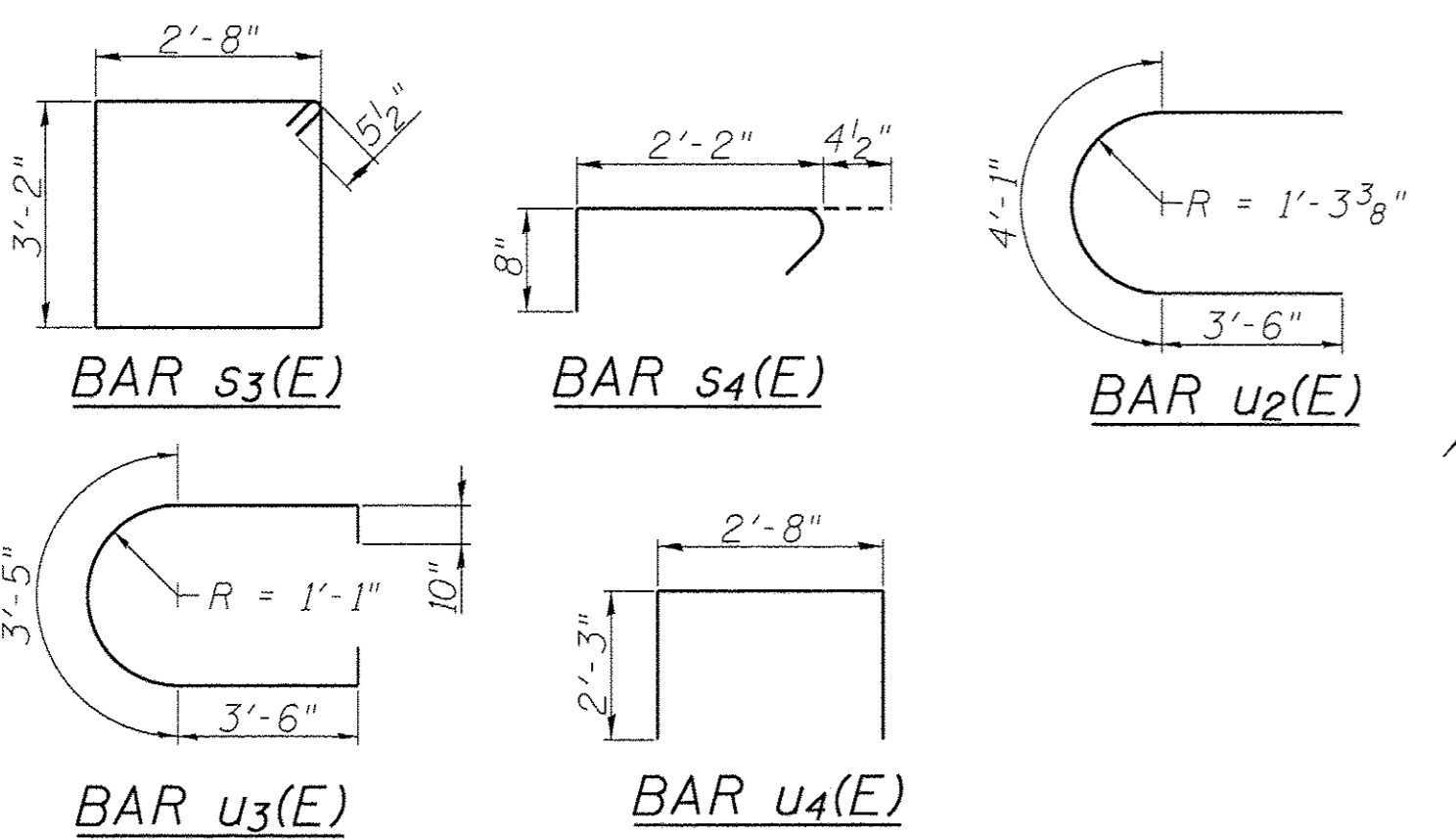
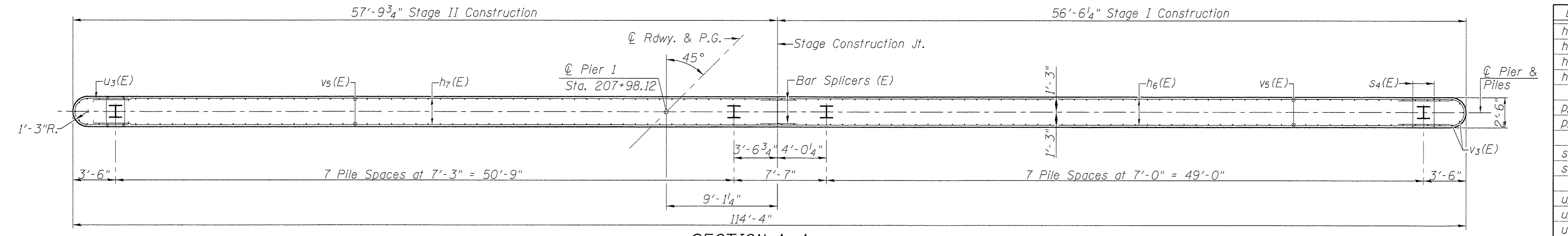
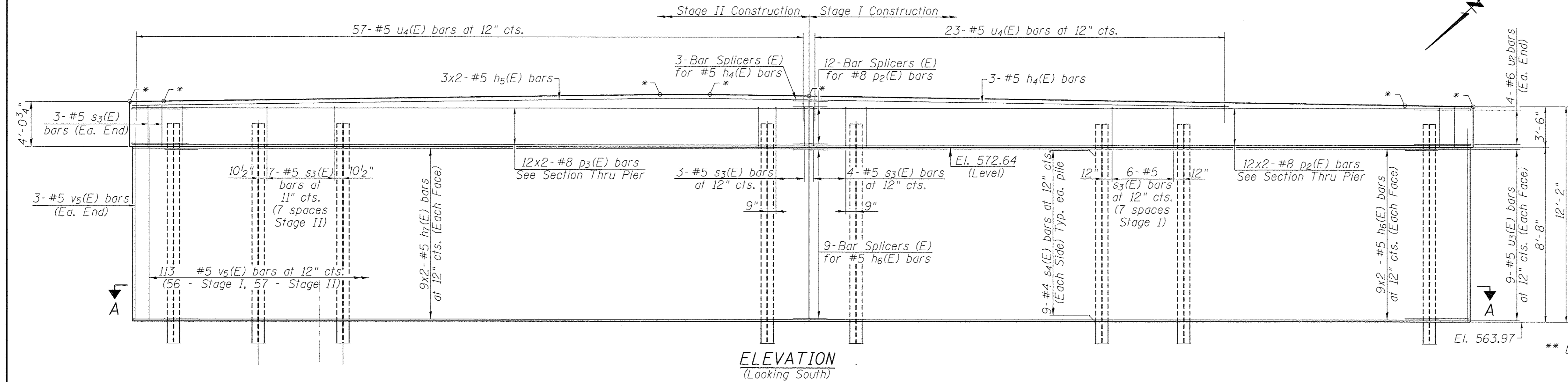
Type: Steel HP 12x63  
 Nominal Required Bearing: 497 Kips  
 Factored Resistance Available: 260 Kips  
 Estimated Pile Length: 67'  
 Number of Production: 15  
 Number of Test Piles: 1\*\*

\*\* Driven to 110% of Nominal Required Bearing

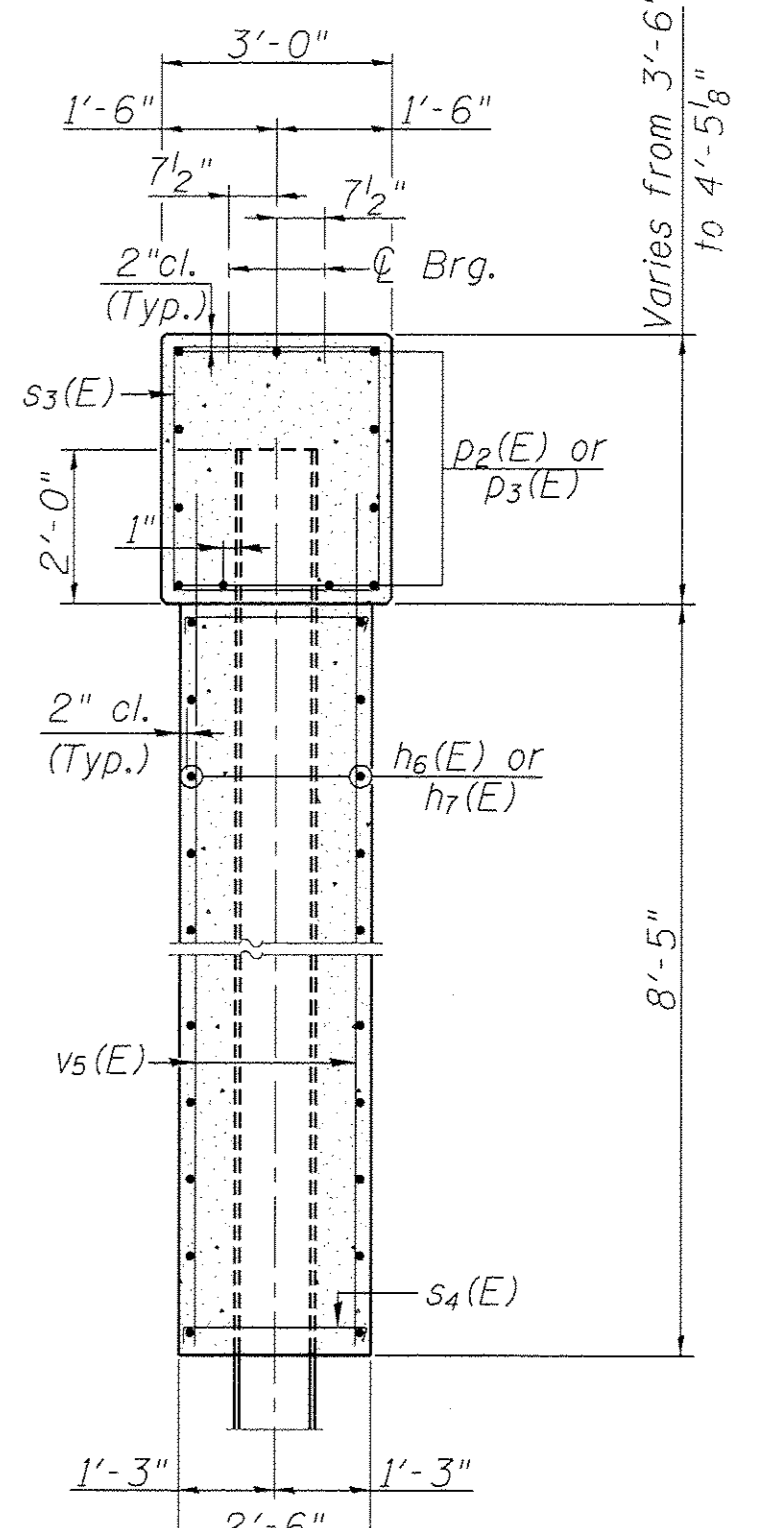
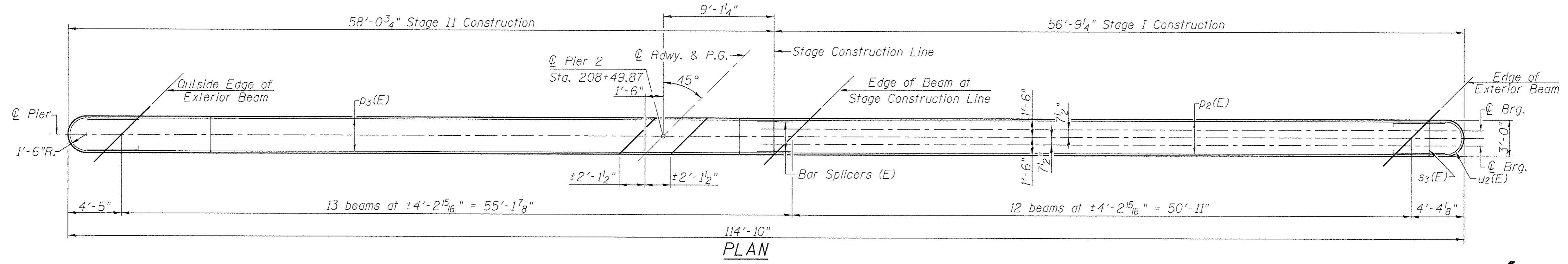
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h4(E)	3	#5	22'-3"	—
h5(E)	6	#5	30'-0"	—
h6(E)	36	#5	29'-4"	—
h7(E)	36	#5	30'-0"	—
p2(E)	24	#8	31'-4"	—
p3(E)	24	#8	32'-0"	—
s3(E)	104	#5	12'-7"	□
s4(E)	288	#4	3'-3"	└┘
u2(E)	8	#6	11'-1"	U
u3(E)	18	#5	12'-1"	U
u4(E)	80	#5	7'-2"	└┘
v5(E)	232	#5	11'-0"	—
Cofferdam Excavation		Cu. Yd.	153	
Concrete Structures		Cu. Yd.	143.4	
Reinforcement Bars, Epoxy Coated		Pound	12160	
Furnishing Steel Piles HP 12x63		Foot	1005	
Driving Piles		Foot	1005	
Test Pile, Steel HP 12x63		Each	1	
Cofferdam (Type 1), Location 1		Each	1	

For details of Bar Splicers, see sheet 25 of 28.  
 For details of piles see sheet 24 of 28.  
 Space reinforcement in pier caps to miss beam anchor dowels.



Piles located within the Stage I Construction limits shall not be driven prior to the de-energizing of the aerial electrical lines (hereafter known as "utility adjustment") located along the west side of Chatham Road. The electrical lines are owned and maintained by City, Water, Light and Power (CWLP). CWLP shall be responsible for all work required for the utility adjustment. The Contractor shall coordinate and accommodate the utility adjustment with CWLP. Rob Cunningham of CWLP shall be contacted a minimum of two months prior to driving piles at 217-757-8520. All costs associated with the utility adjustment shall not be paid for separately but shall be included in the cost of Driving Piles.



**PILE DATA**

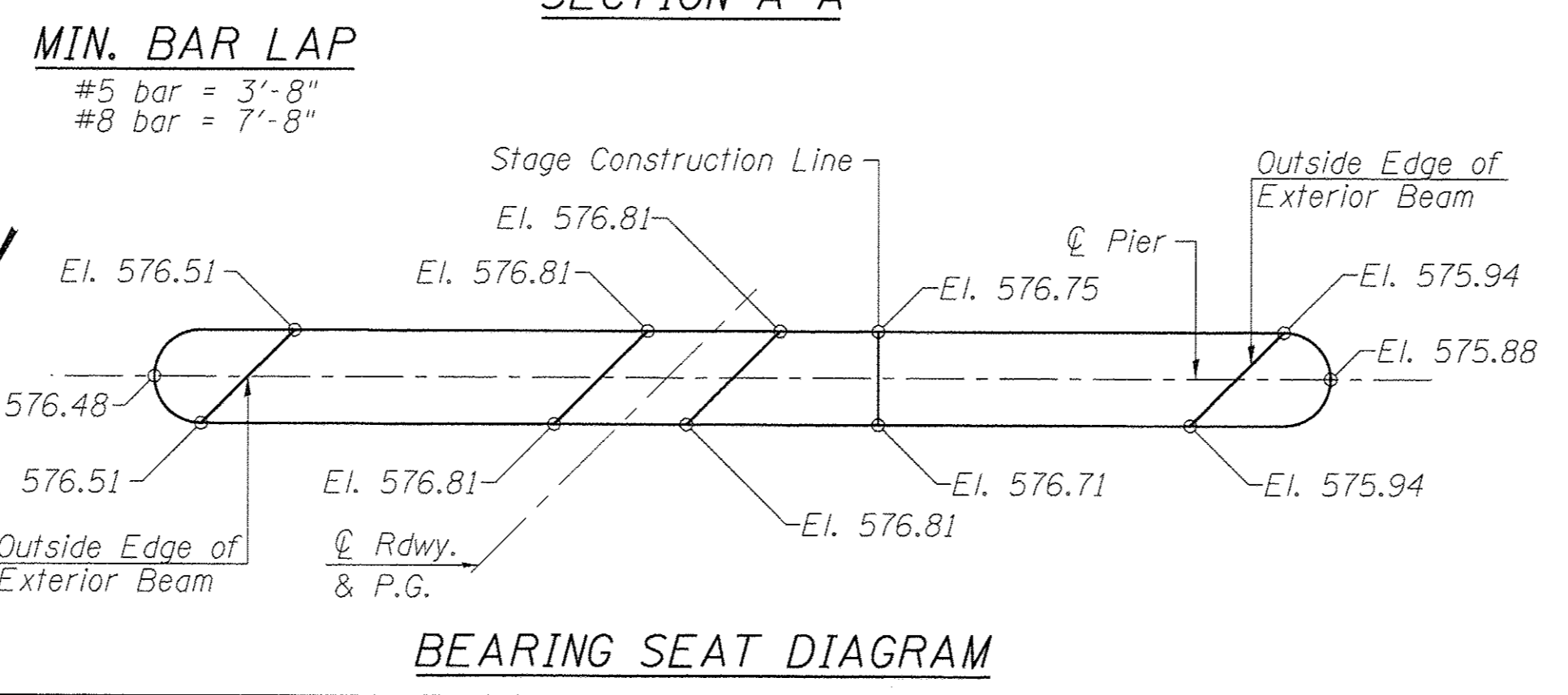
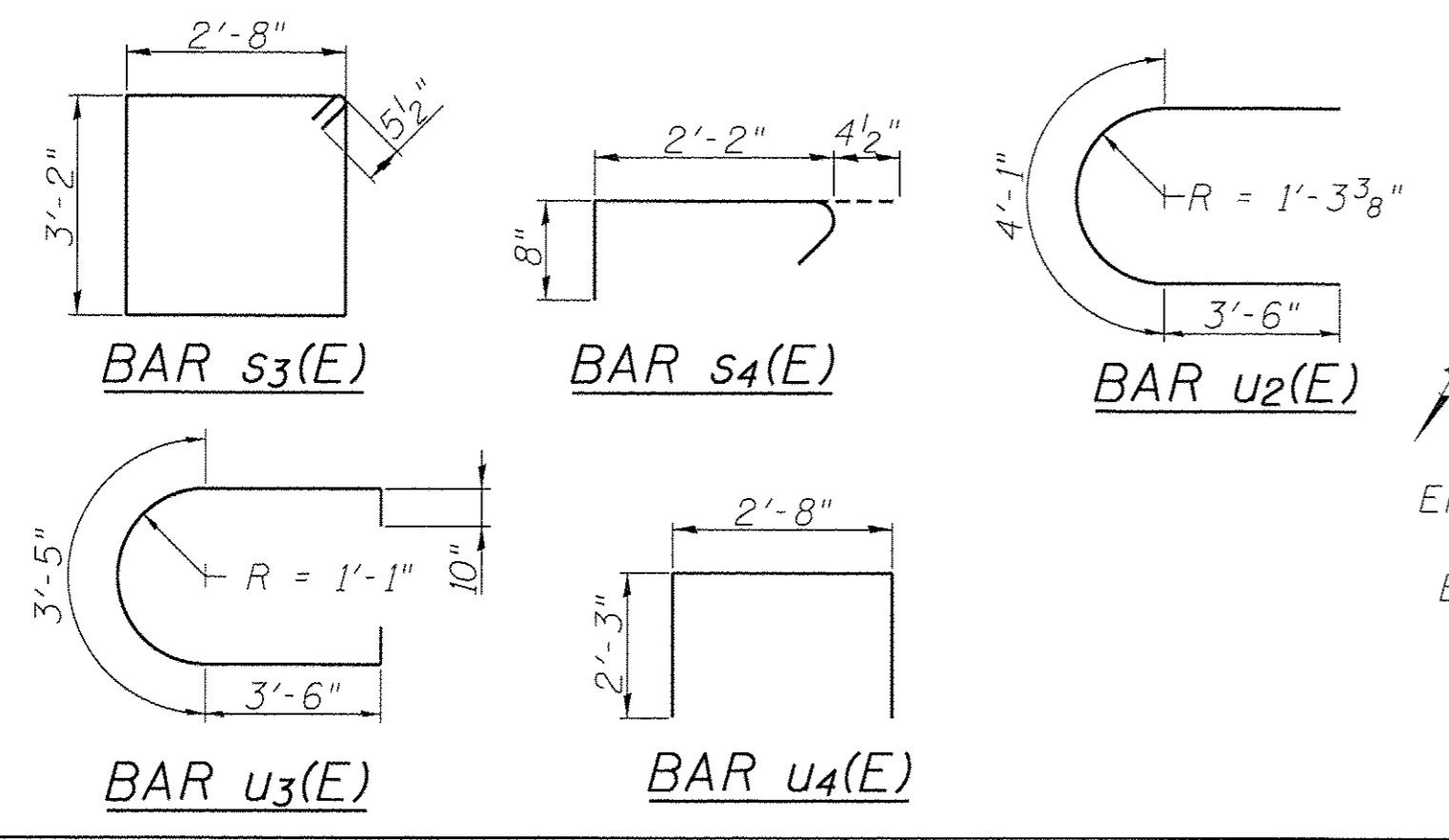
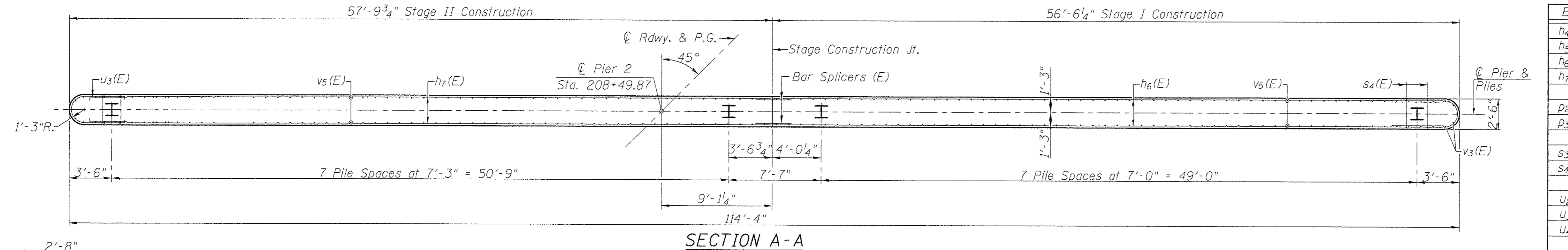
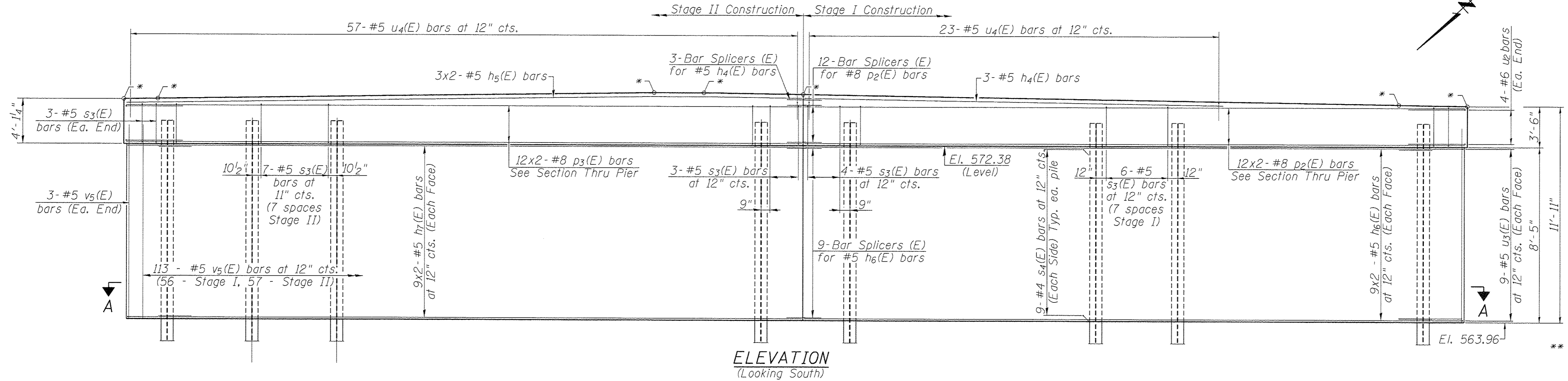
Type: Steel HP 12x63  
 Nominal Required Bearing: 497 Kips  
 Factored Resistance Available: 260 Kips  
 Estimated Pile Length: 67'  
 Number of Production: 15  
 Number of Test Piles: 1\*\*

\*\* Driven to 110% of Nominal Required Bearing

**BILL OF MATERIAL**

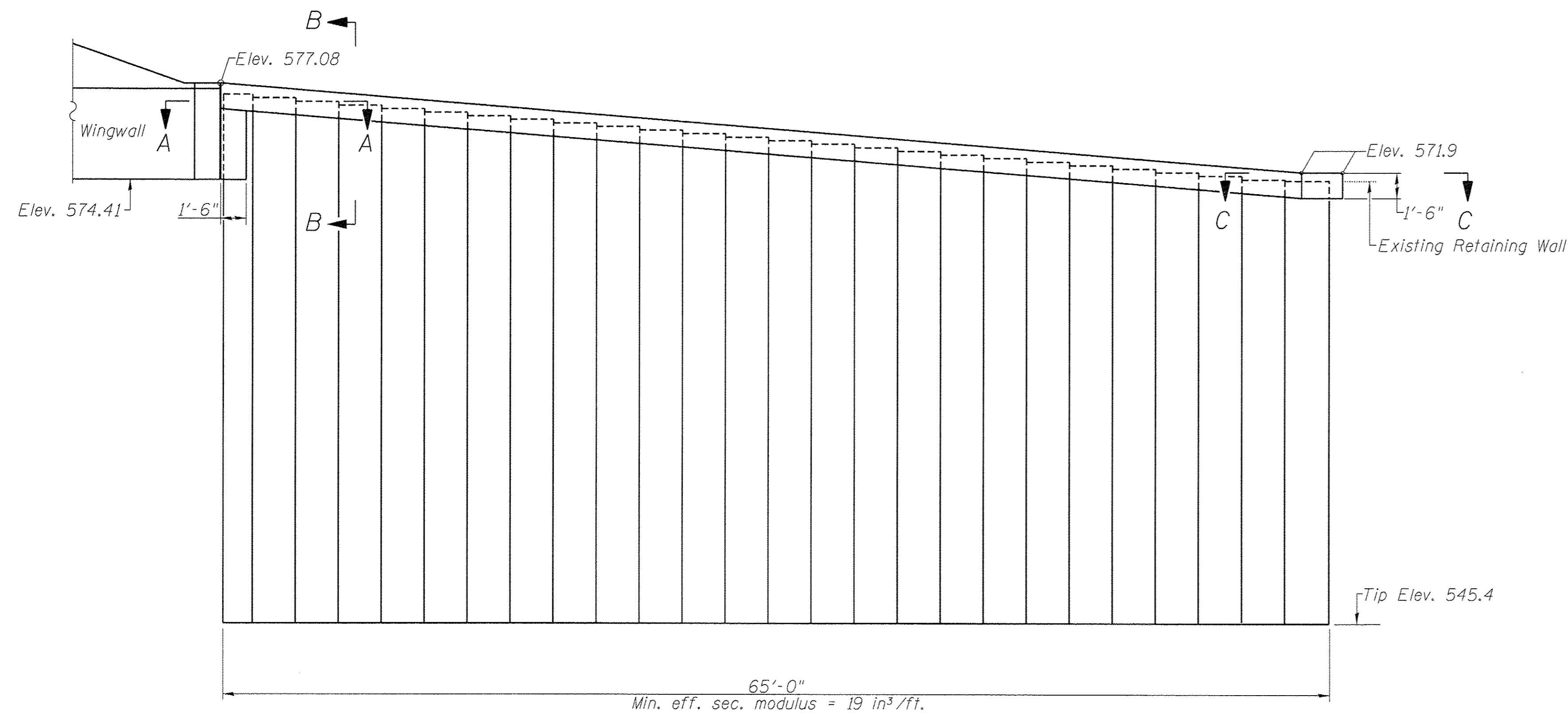
Bar	No.	Size	Length	Shape
h4(E)	3	#5	22'-3"	—
h5(E)	6	#5	30'-0"	—
h6(E)	36	#5	29'-4"	—
h7(E)	36	#5	30'-0"	—
p2(E)	24	#8	31'-4"	—
p3(E)	24	#8	32'-0"	—
s3(E)	104	#5	12'-7"	□
s4(E)	288	#4	3'-3"	□
u2(E)	8	#6	11'-1"	U
u3(E)	18	#5	12'-1"	U
u4(E)	80	#5	7'-2"	U
v5(E)	232	#5	11'-0"	—
Cofferdam Excavation	Cu. Yd.	153		
Concrete Structures	Cu. Yd.	140.8		
Reinforcement Bars, Epoxy Coated	Pound	12160		
Furnishing Steel Piles HP 12x63	Foot	1005		
Driving Piles	Foot	1005		
Test Pile, Steel HP 12x63	Each	1		
Cofferdam (Type 1), Location 2	Each	1		

For details of Bar Splicers, see sheet 25 of 28.  
 For details of piles see sheet 24 of 28.  
 Space reinforcement in pier caps to miss beam anchor dowels.

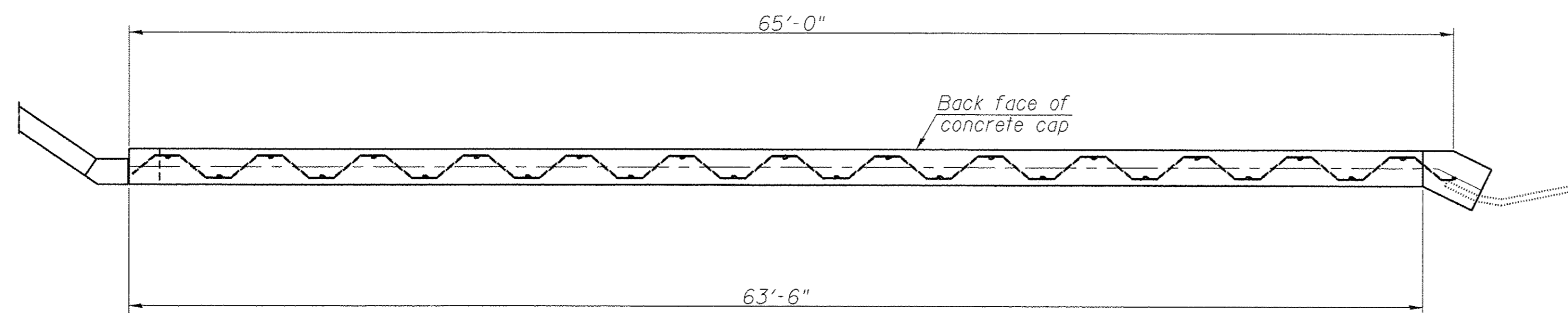


Piles located within the Stage I Construction limits shall not be driven prior to the de-energizing of the aerial electrical lines (hereafter known as "utility adjustment") located along the west side of Chatham Road. The electrical lines are owned and maintained by City, Water, Light and Power (CWLP). CWLP shall be responsible for all work required for the utility adjustment. The Contractor shall coordinate and accommodate the utility adjustment with CWLP. Rob Cunningham of CWLP shall be contacted a minimum of two months prior to driving piles at 217-757-8520. All costs associated with the utility adjustment shall not be paid for separately but shall be included in the cost of Driving Piles.

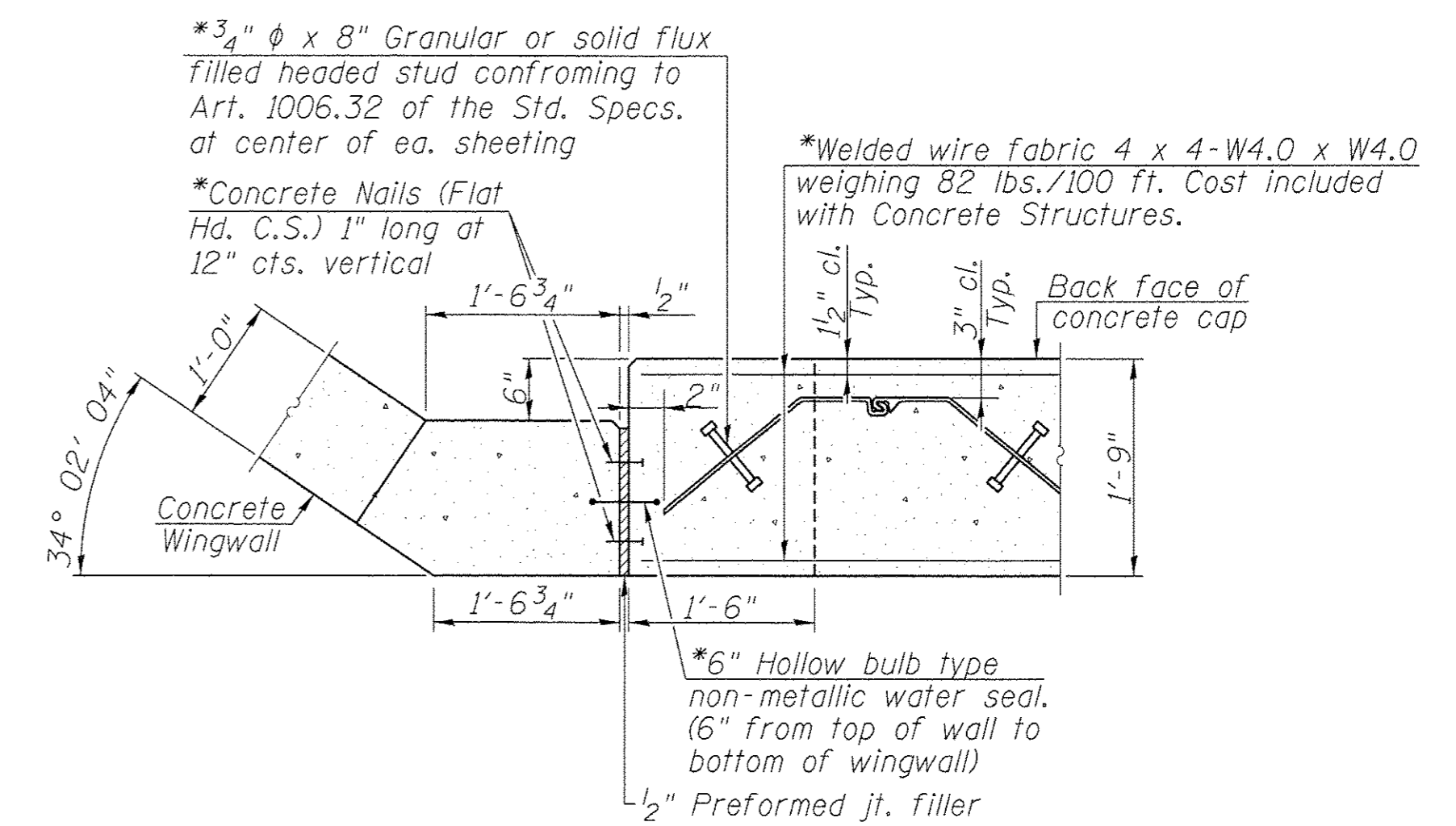




ELEVATION

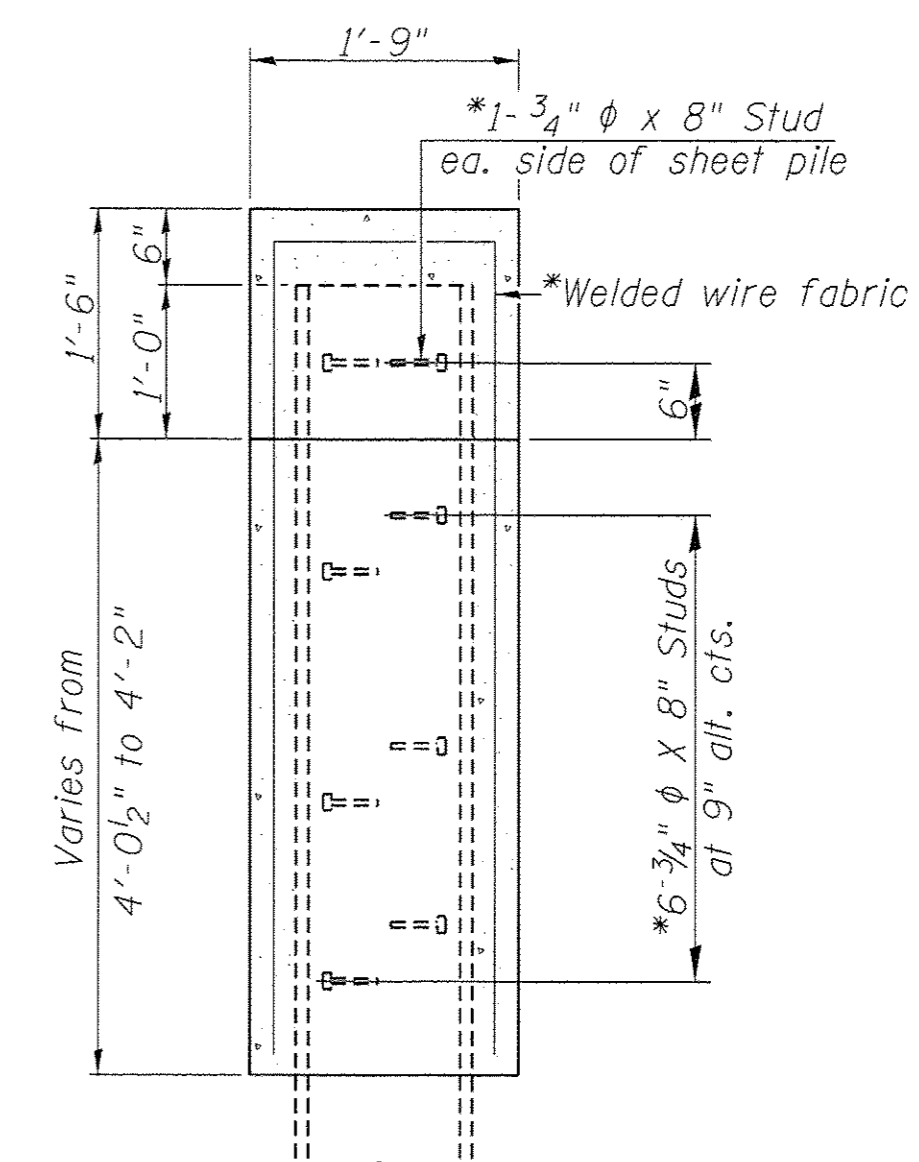


PLAN

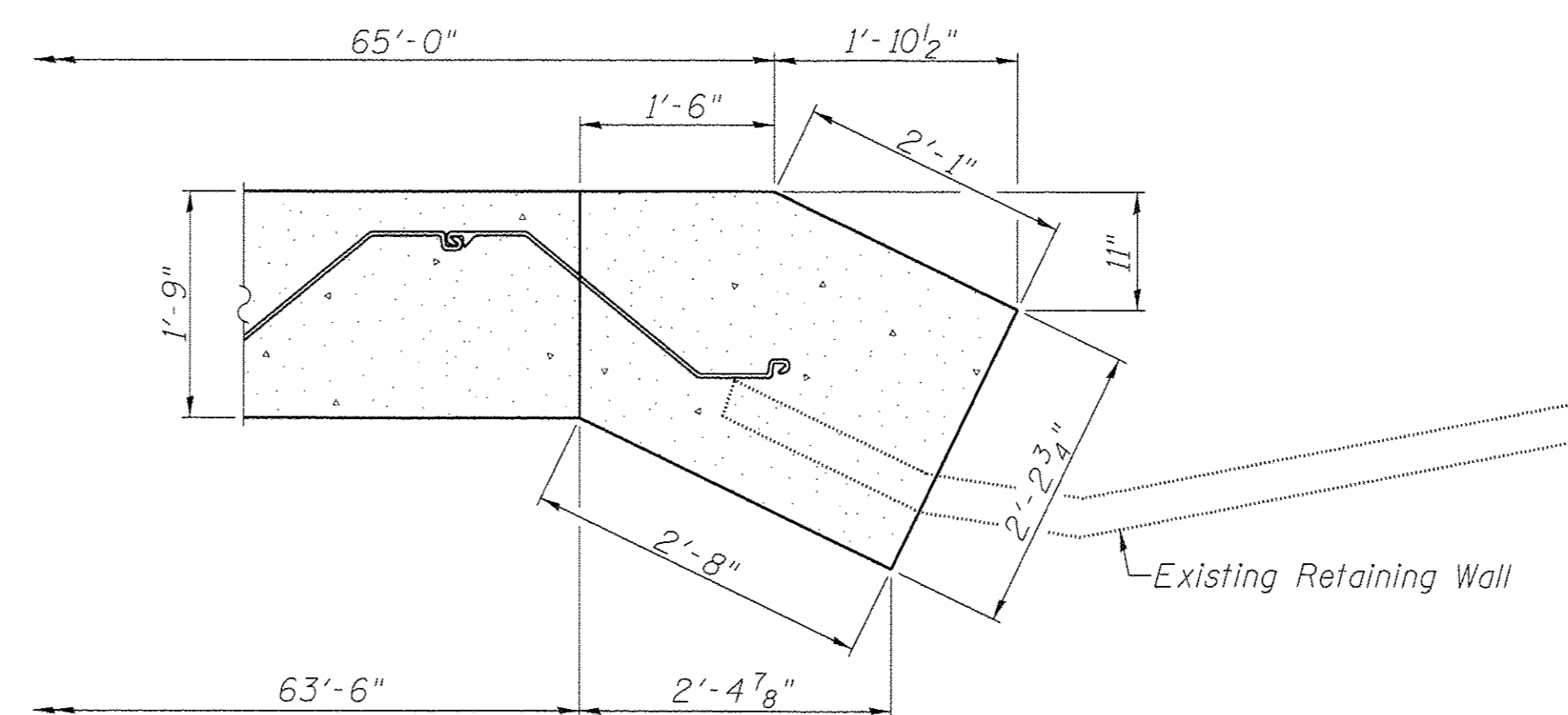


SECTION A-A

\*Included in the cost of Permanent Steel Sheet Piling



SECTION B-B

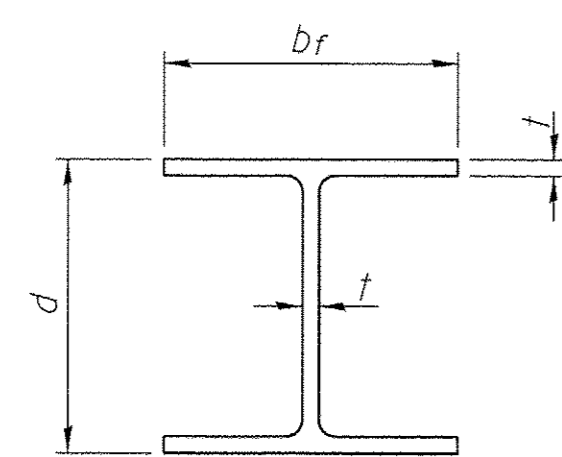


SECTION C-C

Notes: Work this sheet with sheet 19 of 28.  
 Fy = 50 ksi (AASHTO M202 Gr. 50)  
 Hard driving may likely be encountered upon installation of the sheet piling to their required plan tip elevations. The contractor shall provide the appropriate driving equipment for soil conditions indicated in the boring logs. If sheet piling does not reach it's design tip elevation, the Engineer shall be notified.  
 The concrete cap for permanent sheet piling shall be measured and paid for as Concrete Structures.  
 The contractor shall field verify the location of the existing retaining wall and the proposed dimensions and make necessary approved adjustments prior to construction or ordering of materials. Adjustments shall not be cause for additional compensation for a change in scope of the work, however, the contractor will be paid for the quantity actually furnished at the unit price bid for the work.

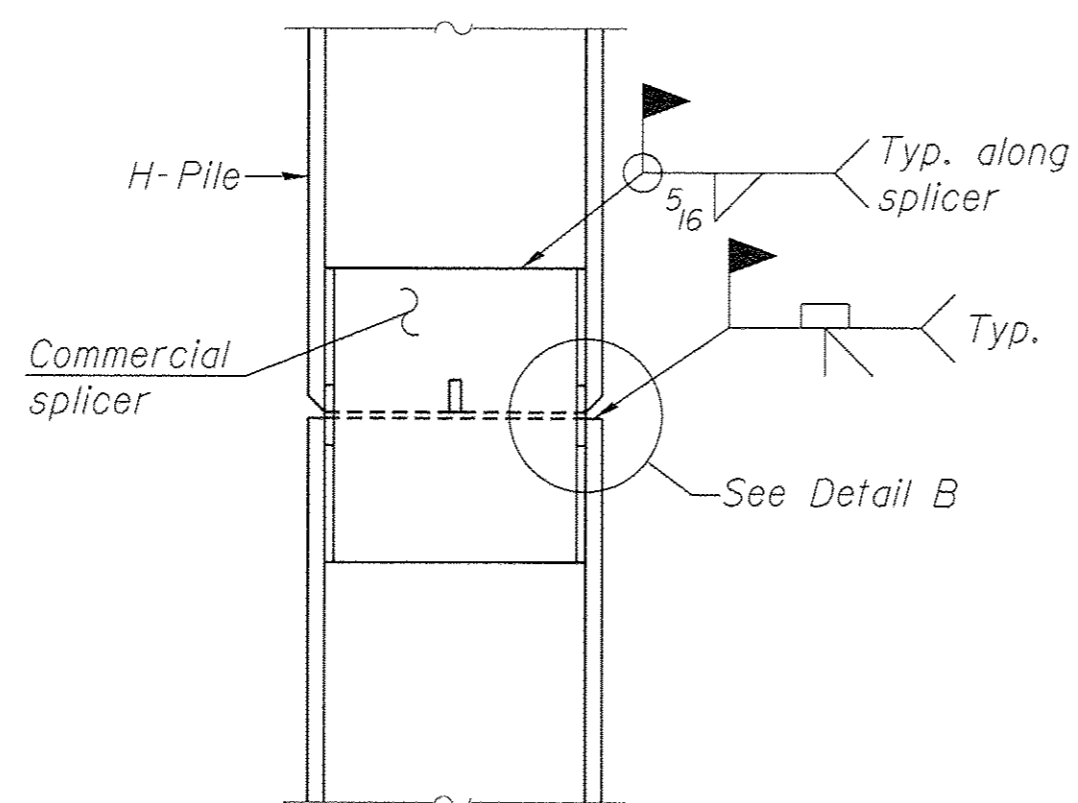
BILL OF MATERIAL

Item	Unit	Quantity
Permanent Steel Sheet Piling	Sq. Ft.	1846
Concrete Structures	Cu. Yd.	6.9
Structure Excavation	Cu. Yd.	15

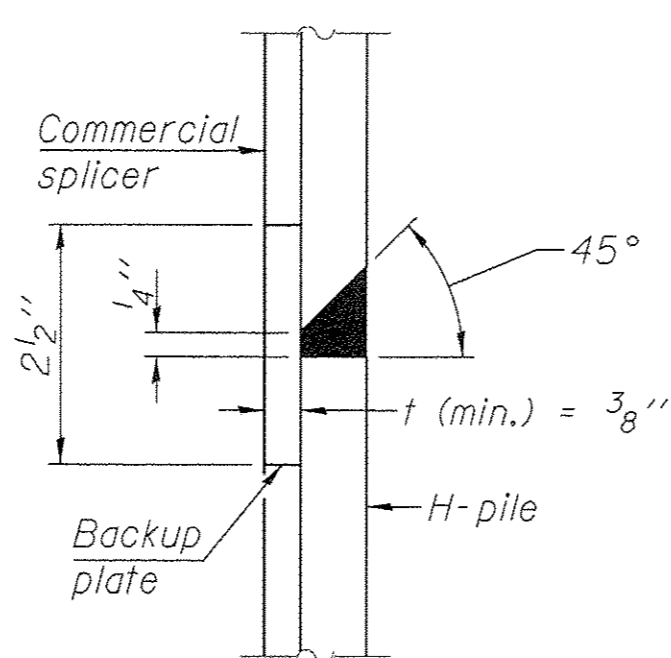


STEEL PILE TABLE

Designation	Depth d	Flange width b <sub>f</sub>	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/6"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/6"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"

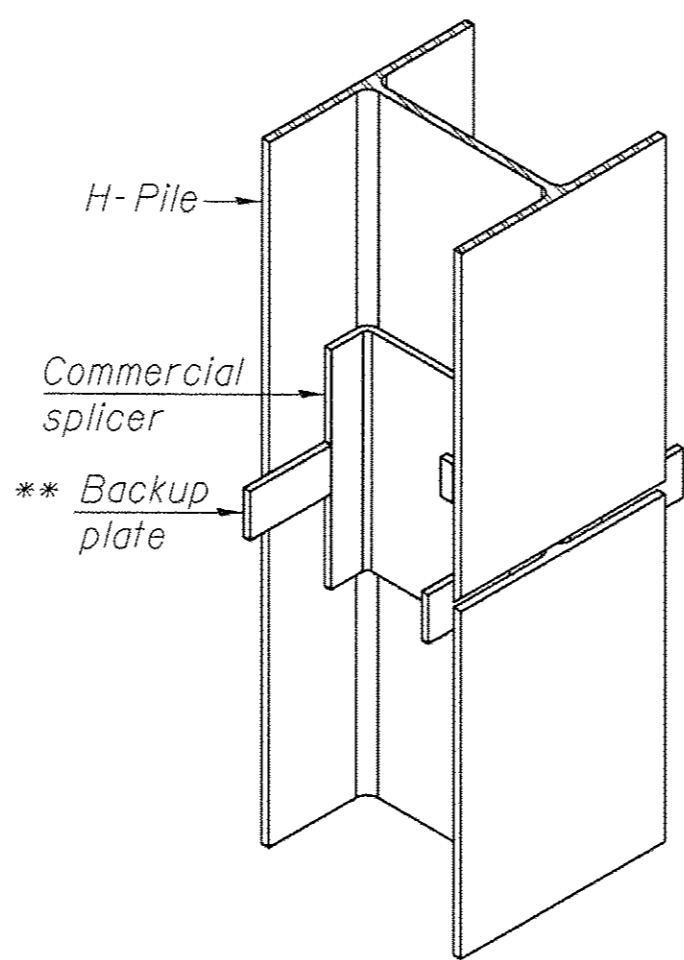


ELEVATION

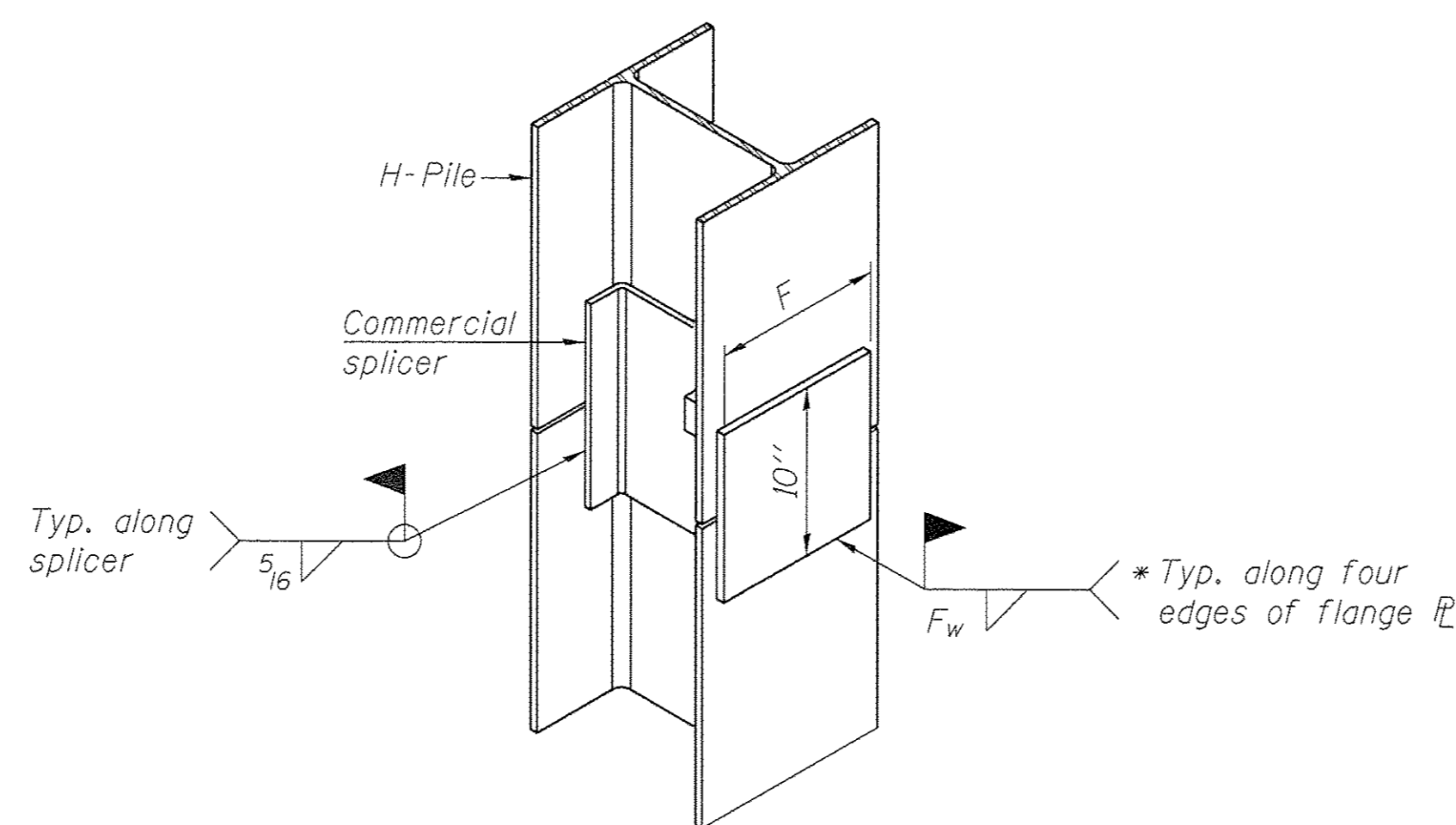


DETAIL "B"

WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW



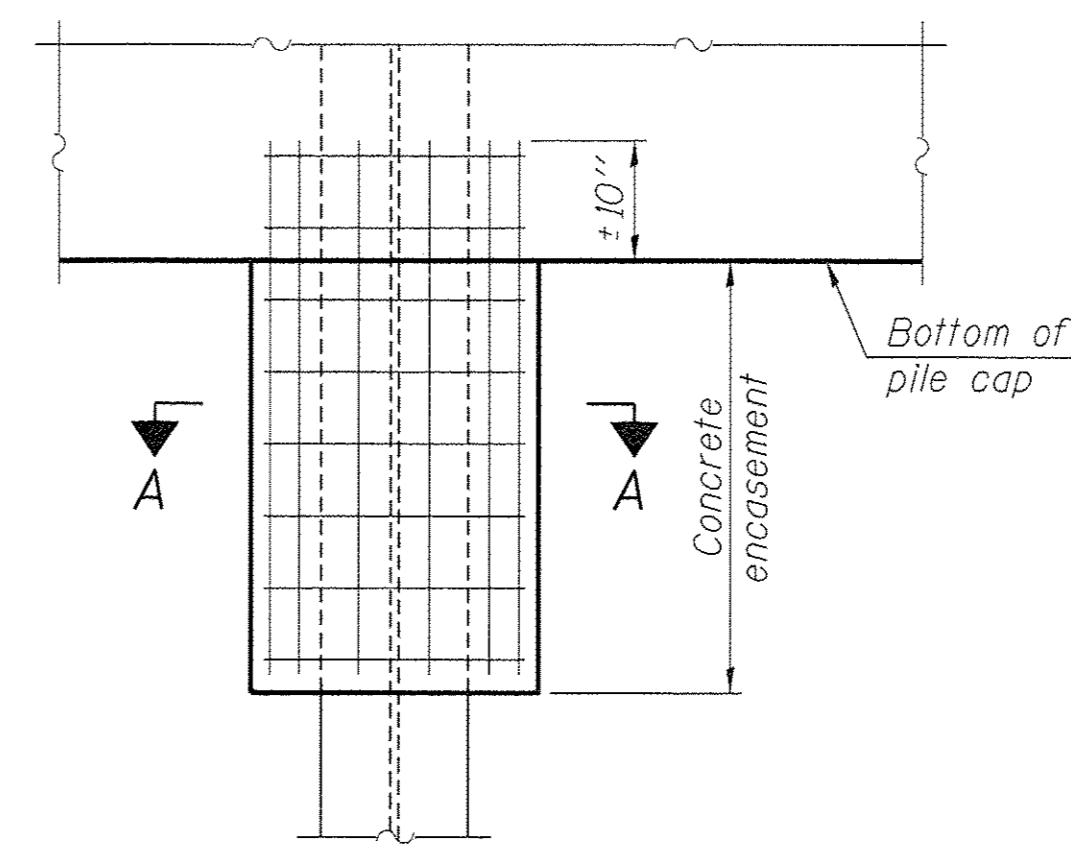
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

\* Interrupt welds 1/4" from end of web and/or each flange.

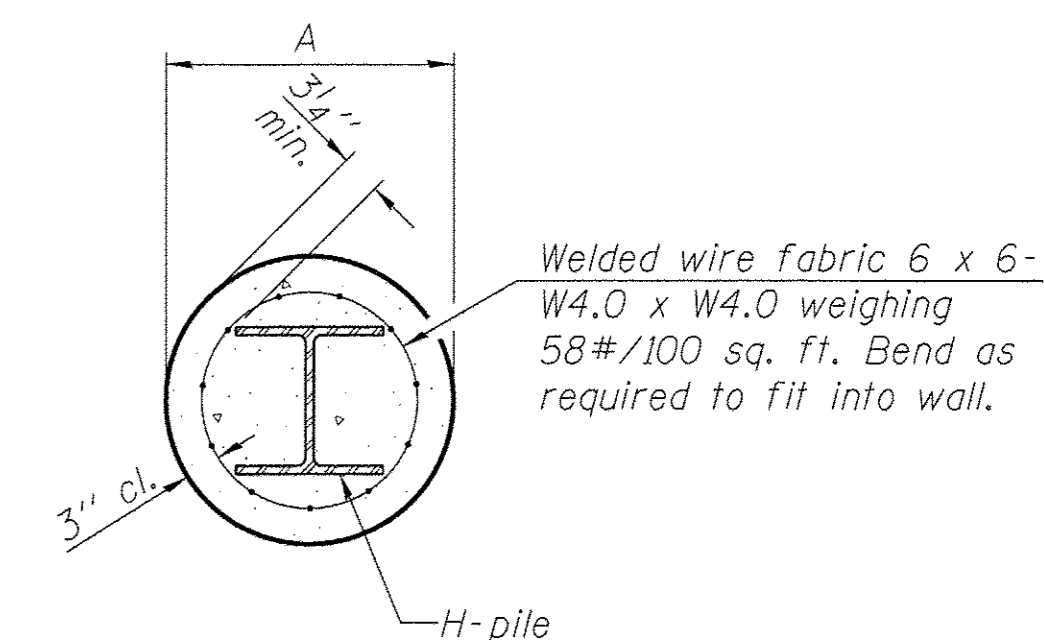
\*\* Remove portions of backup plates that extend outside the flanges.

\*\*\* Weld size per pile shoe manufacturer (5/16" min.).



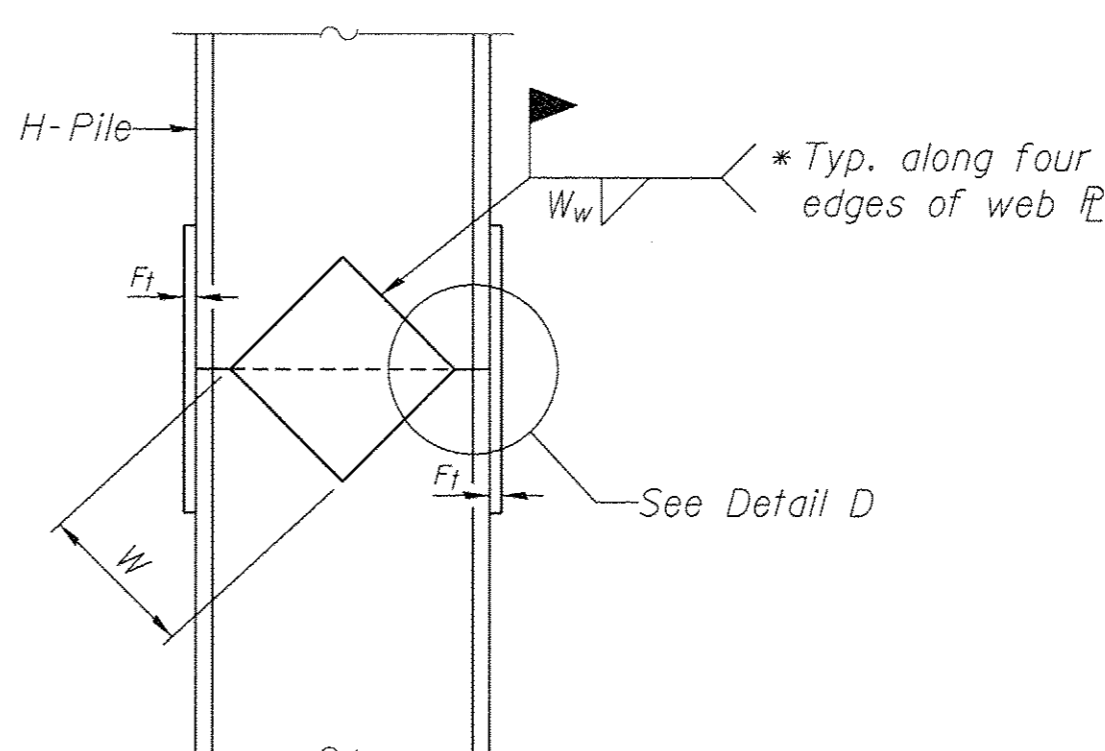
ELEVATION

PILE ENCASEMENT

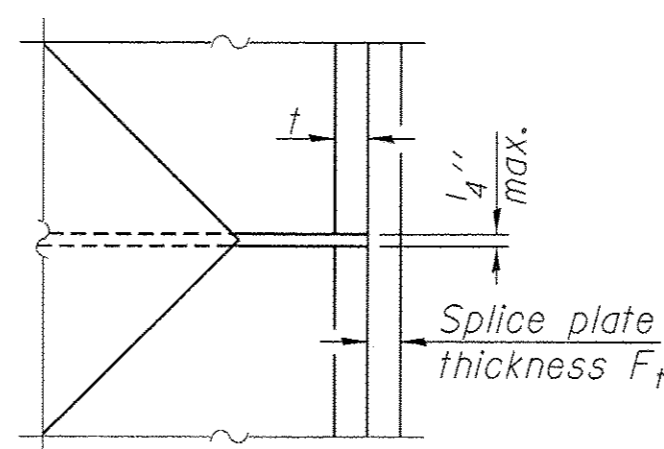


SECTION A-A

Note:  
Forms for encasement may be omitted when soil conditions permit.

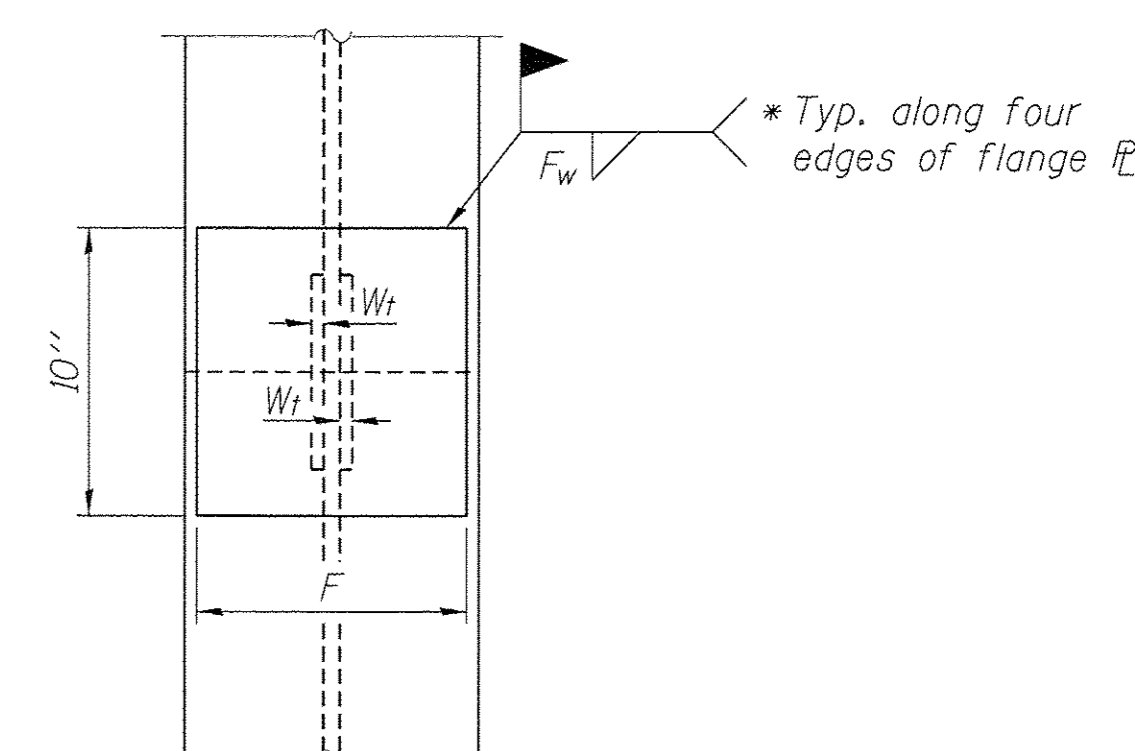


ELEVATION



DETAIL D

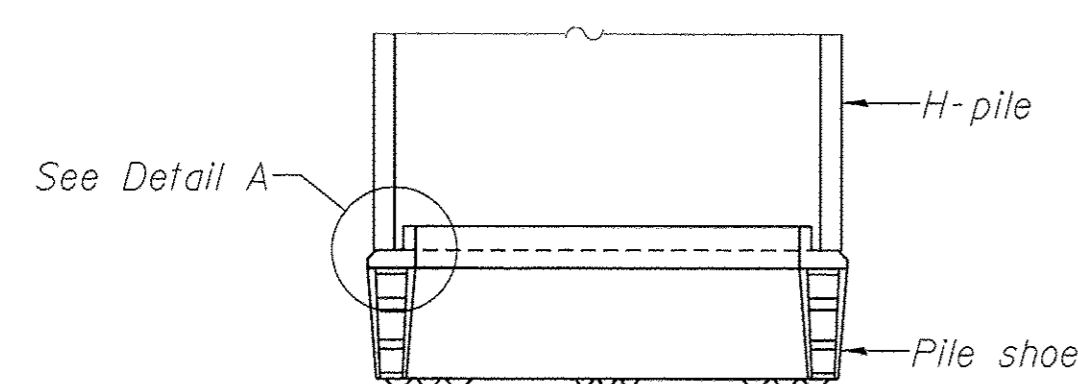
WELDED PLATE FIELD SPLICE



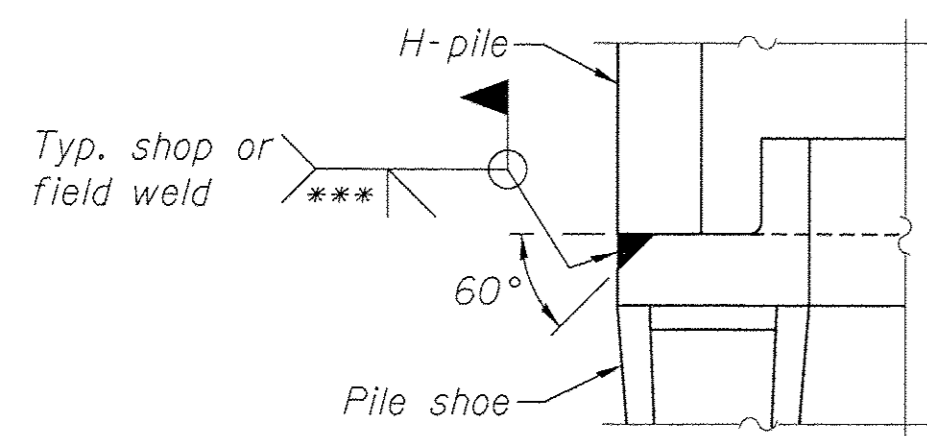
END VIEW

Designation	F	F <sub>t</sub>	F <sub>w</sub>	W	W <sub>t</sub>	W <sub>w</sub>
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/6"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/6"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/6"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT

F-HP

1-27-12

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -



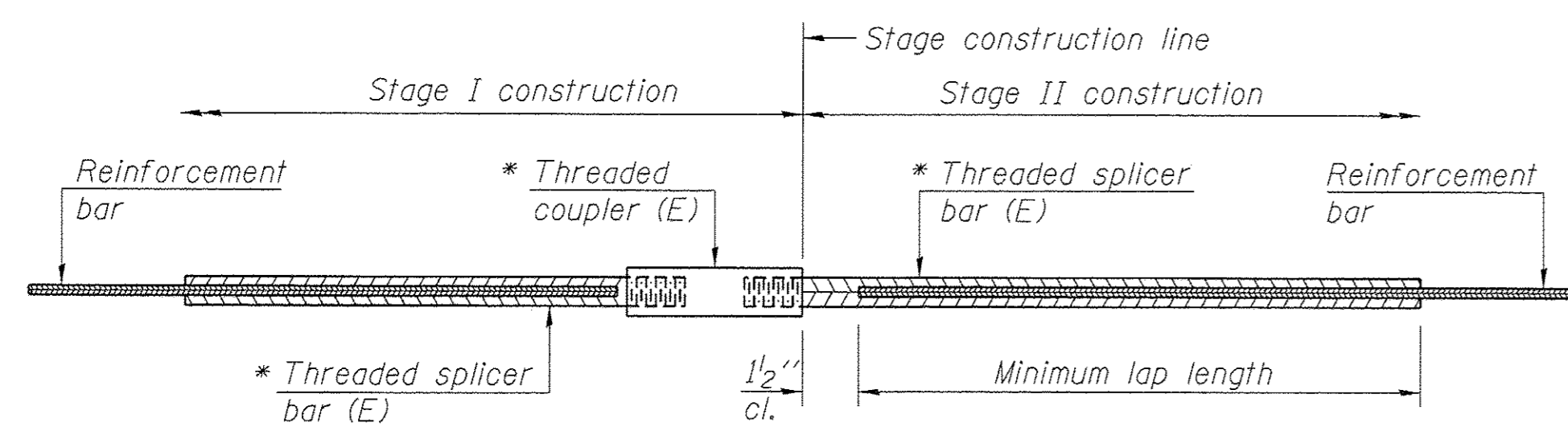
Allen Henderson & Associates, Inc.  
Civil and Structural Engineers Springfield, IL.  
62703 Phone: (217)544-8033 IL Design Firm  
No. 184-001907

HP PILE DETAILS  
STRUCTURE NO. 084-6019

SHEET NO. 24 OF 28 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B006	10-00470-00-BR	SANGAMON	90	64
CONTRACT NO. 93600				
ILLINOIS FED. AID PROJECT				





**STANDARD BAR SPLICER ASSEMBLY**

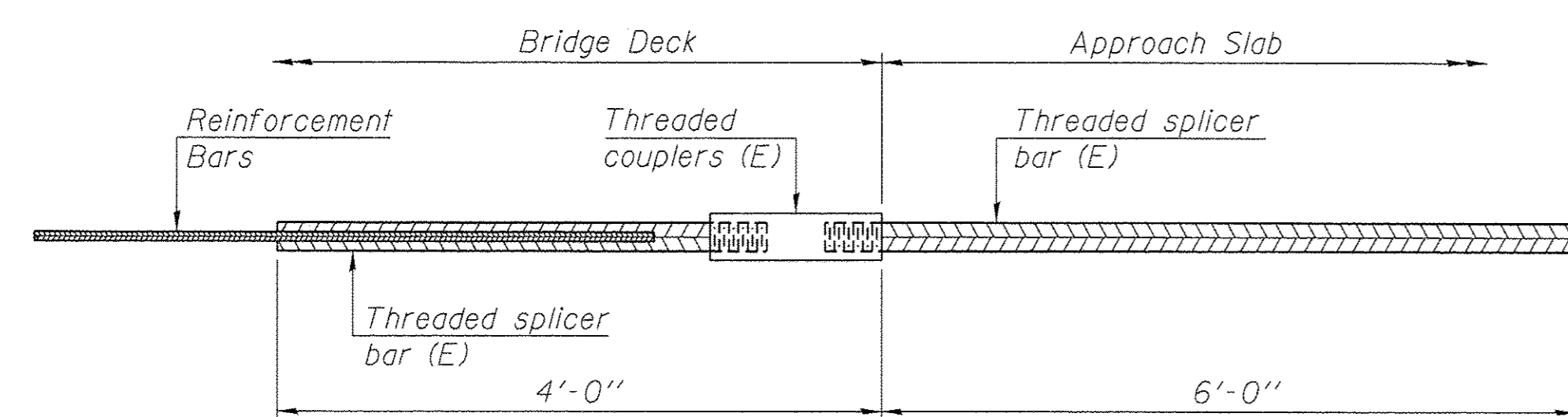
Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

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

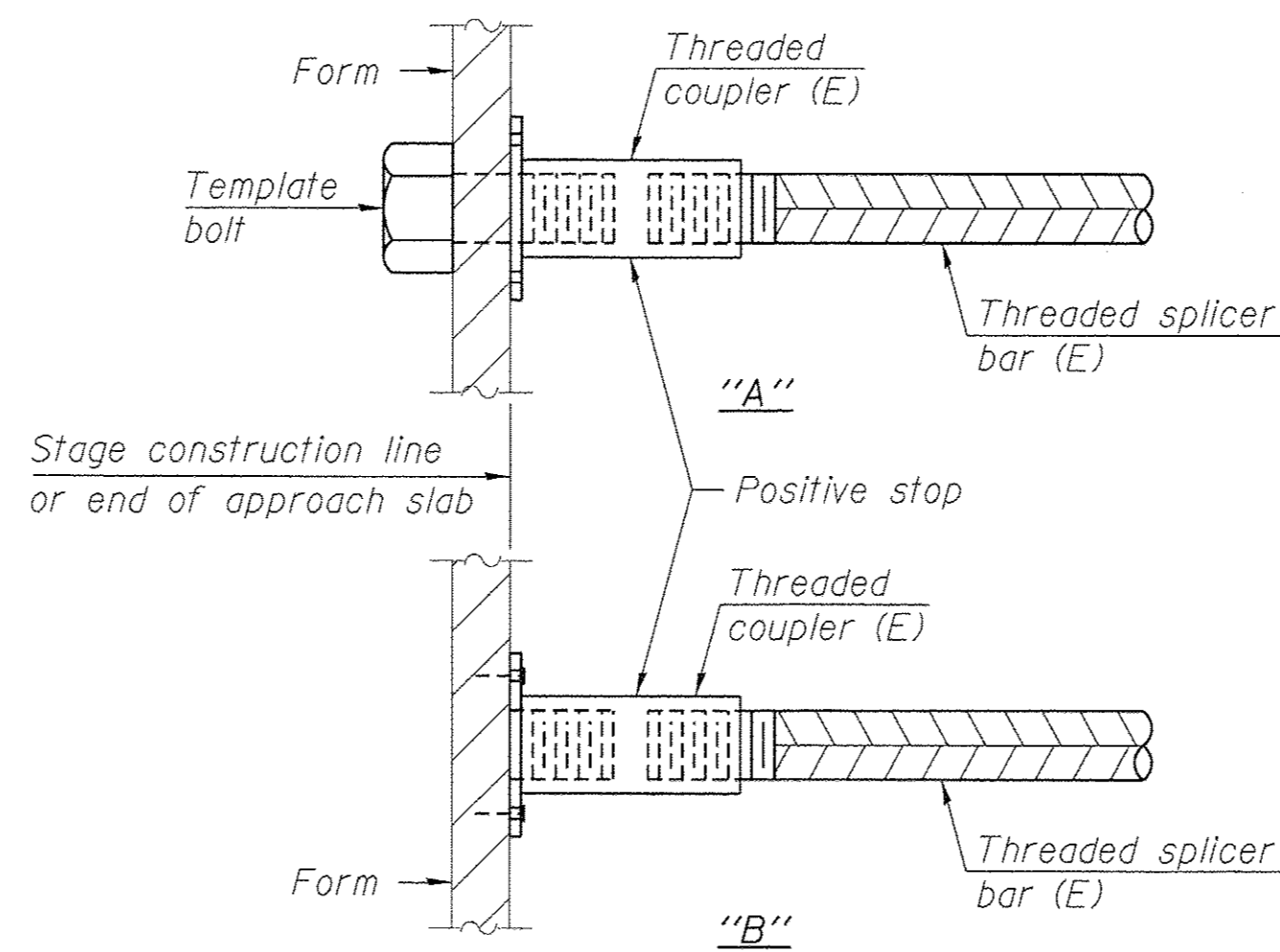
Threaded splicer bar length = min. lap length + 1/2" + thread length

\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Concrete Wearing Surface	#4	121	3
Top of Approach Slab	#4	50	4
Bottom of Approach Slab	#5	92	3
Approach Slab Footing	#5	80	3
Abutment Cap	#7	24	4
Abutment Cap	#5	6	4
Pier Cap	#8	24	4
Pier Cap	#5	6	4
Pier Wall	#5	36	4

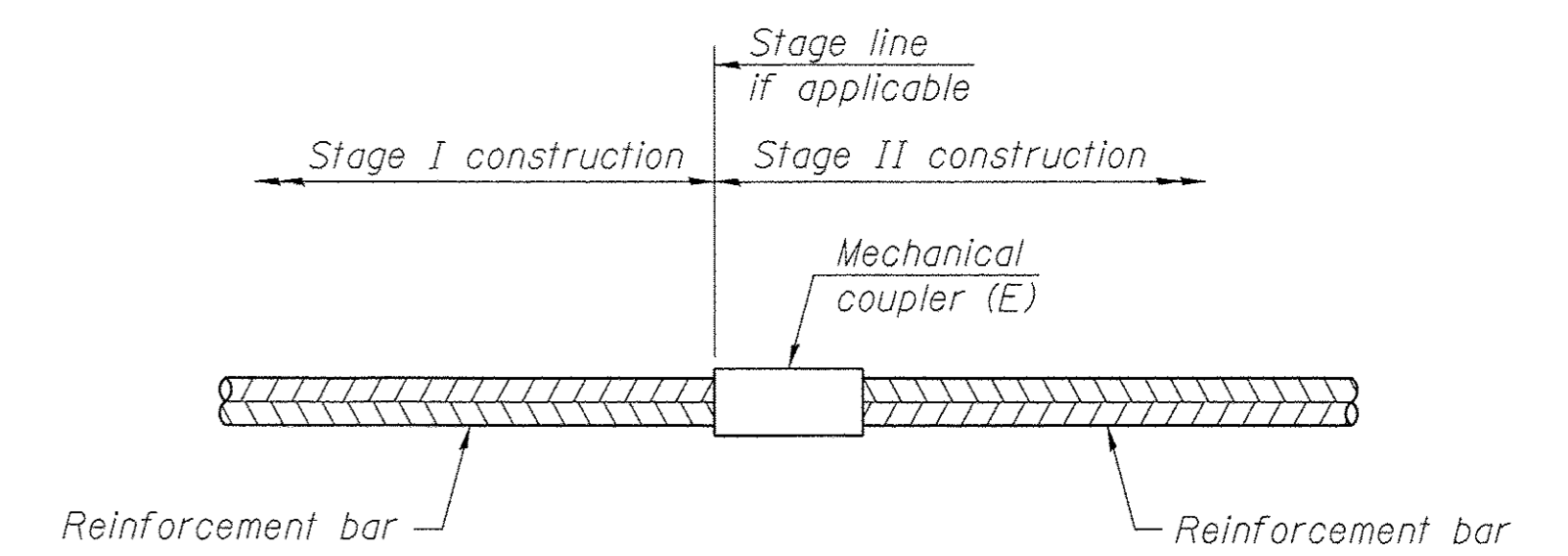


**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

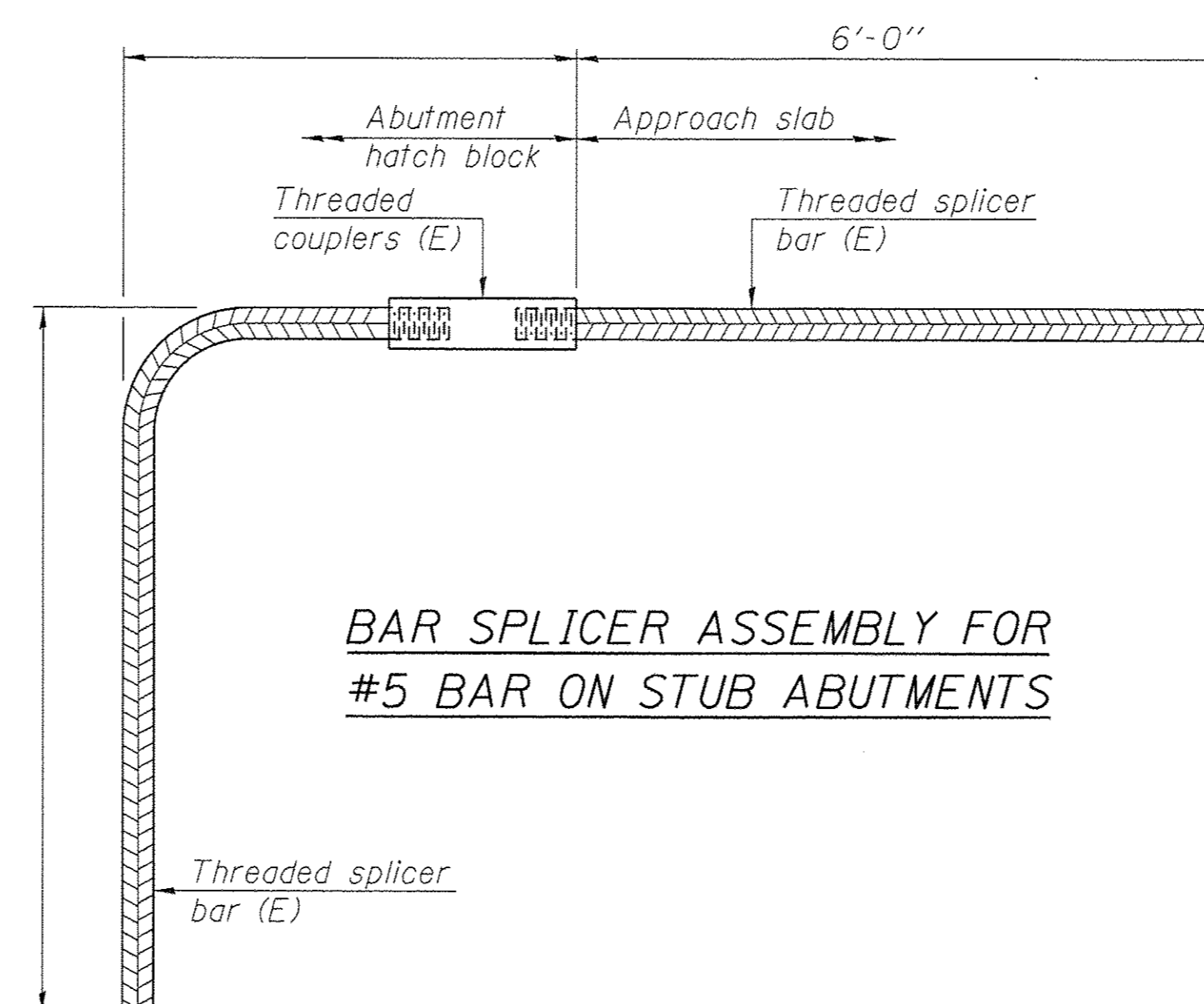


**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

**NOTES**

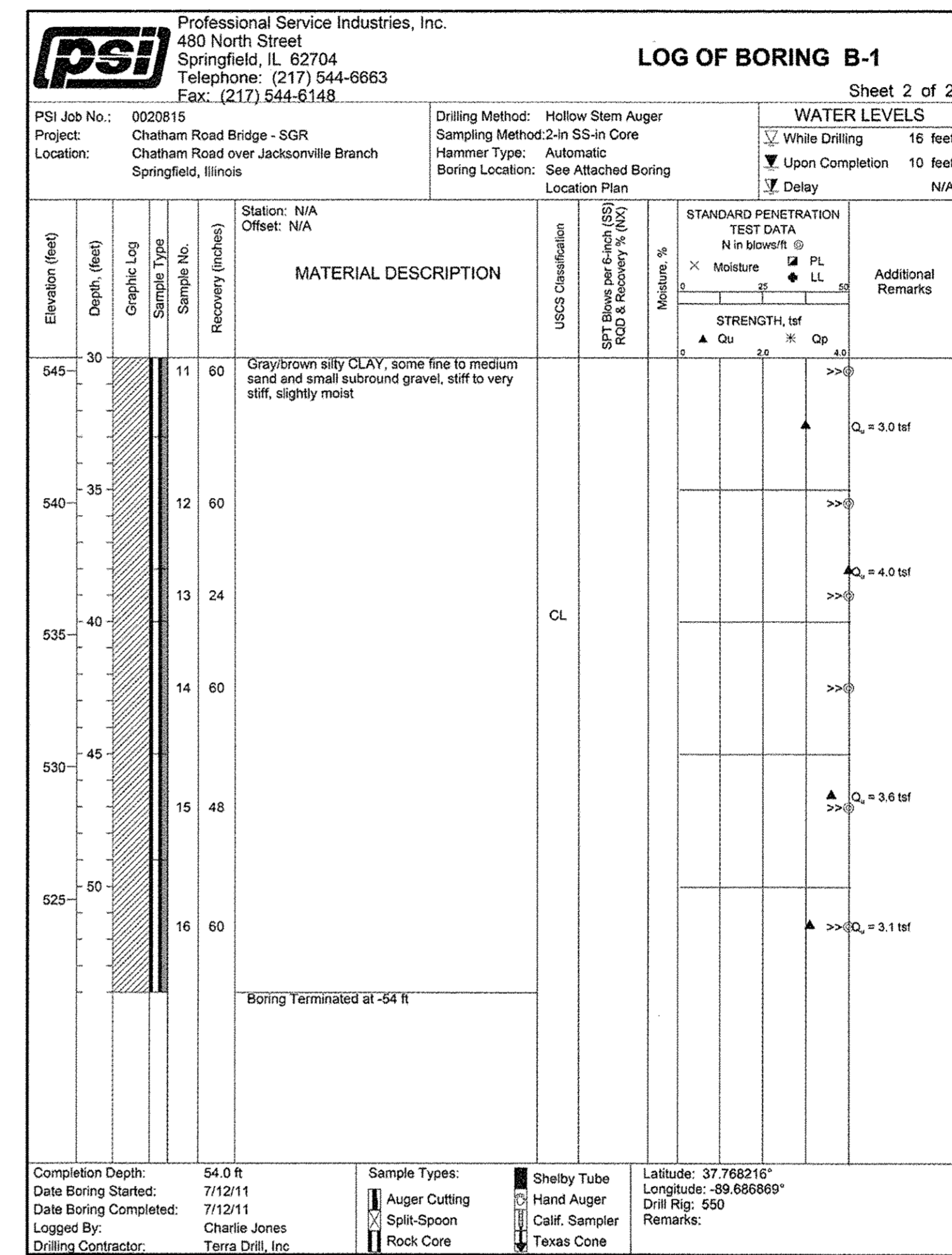
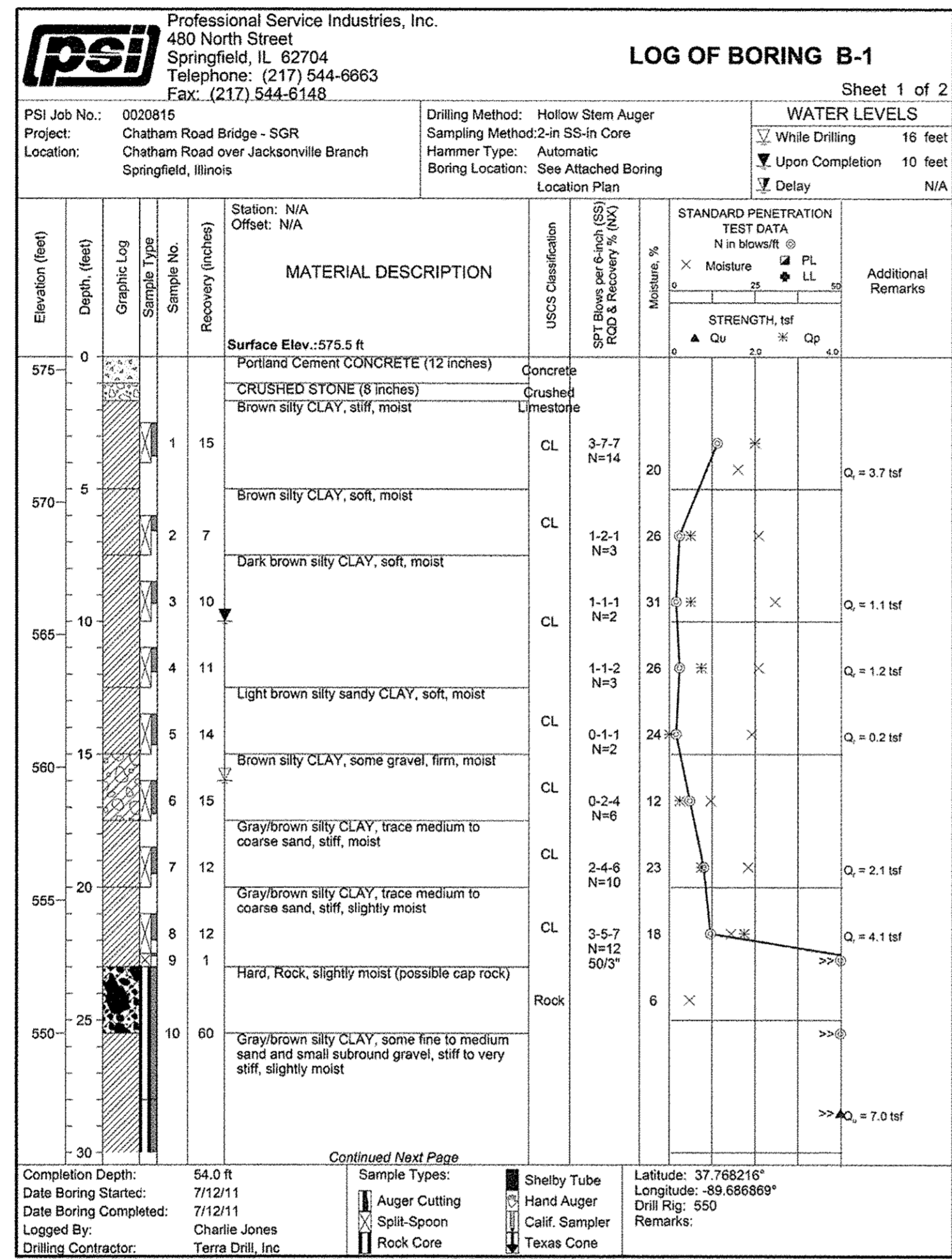
Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.


BSD-1

1-27-12

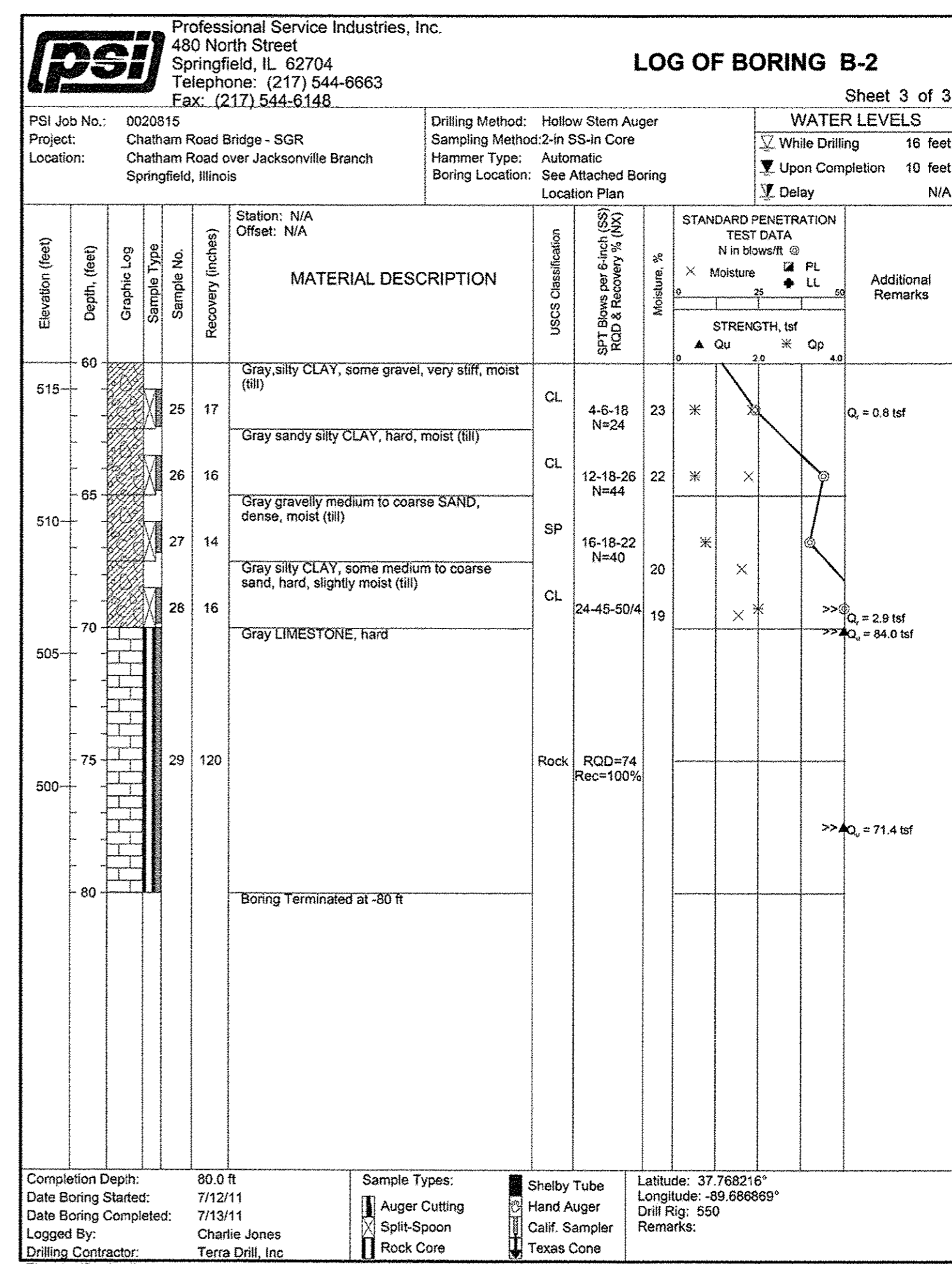
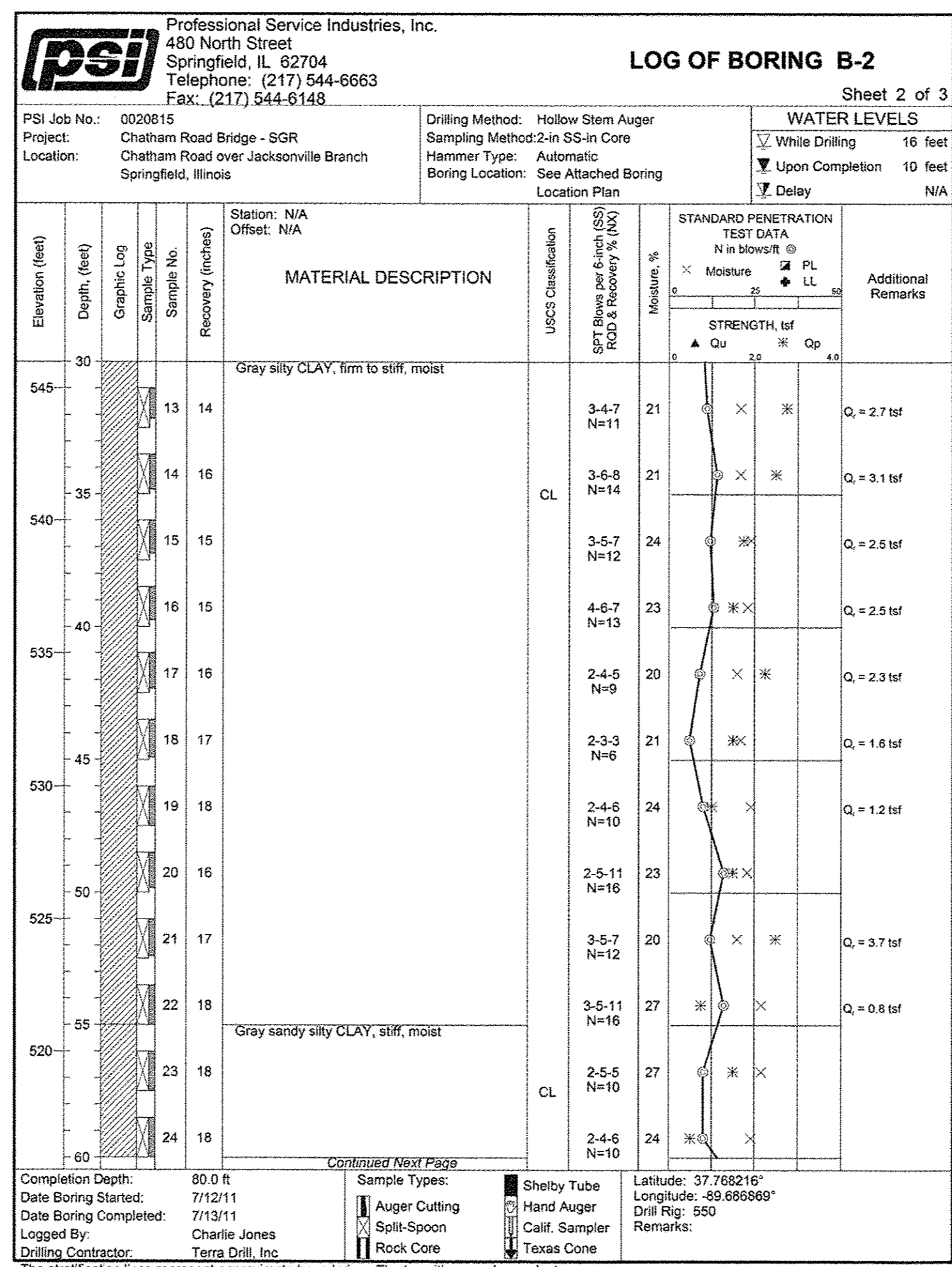
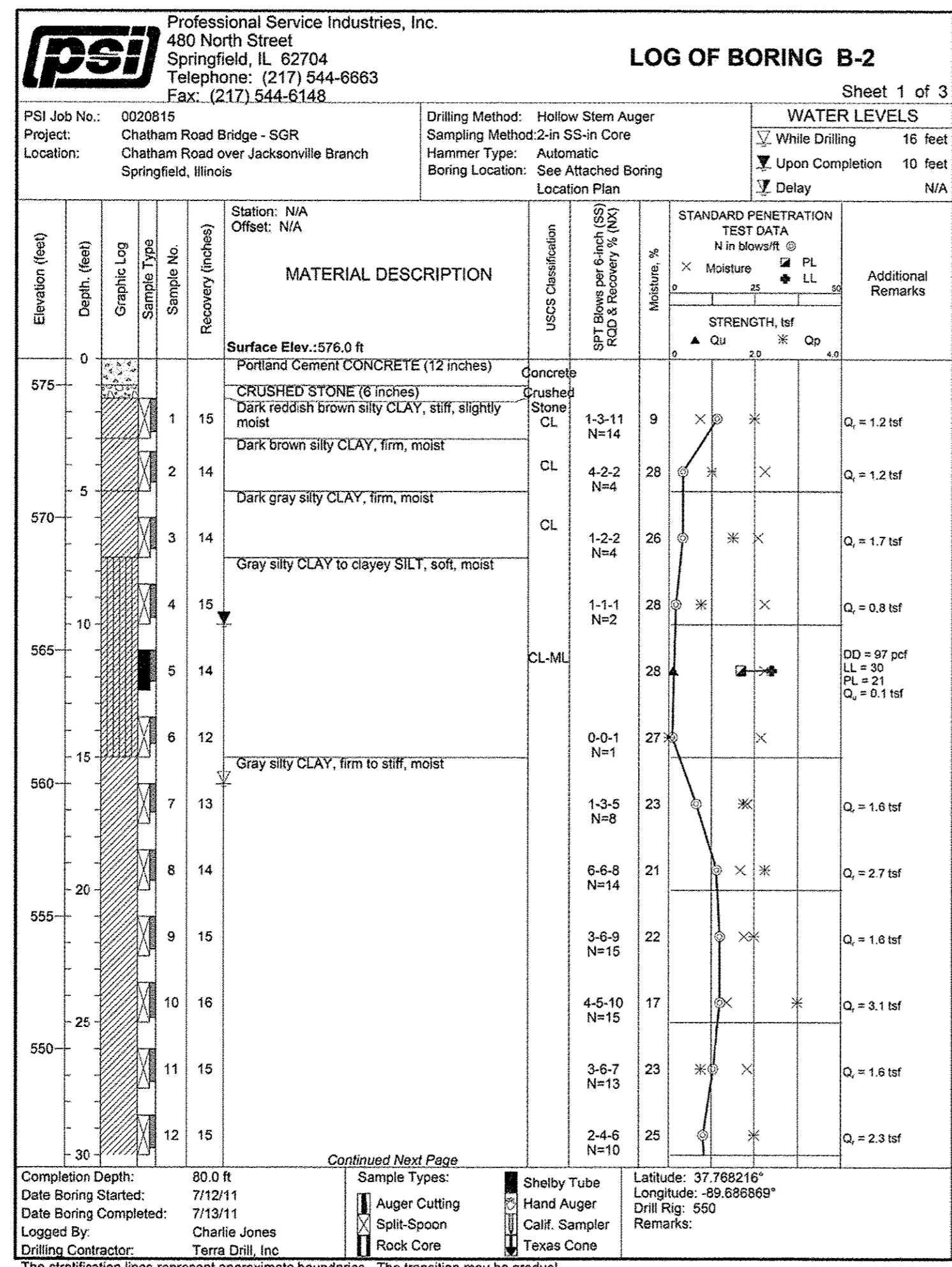
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	<b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS</b> <b>STRUCTURE NO. 084-6019</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE =	CHECKED -	REVISED -	CONTRACT NO. 93600							
						ILLINOIS FED. AID PROJECT				

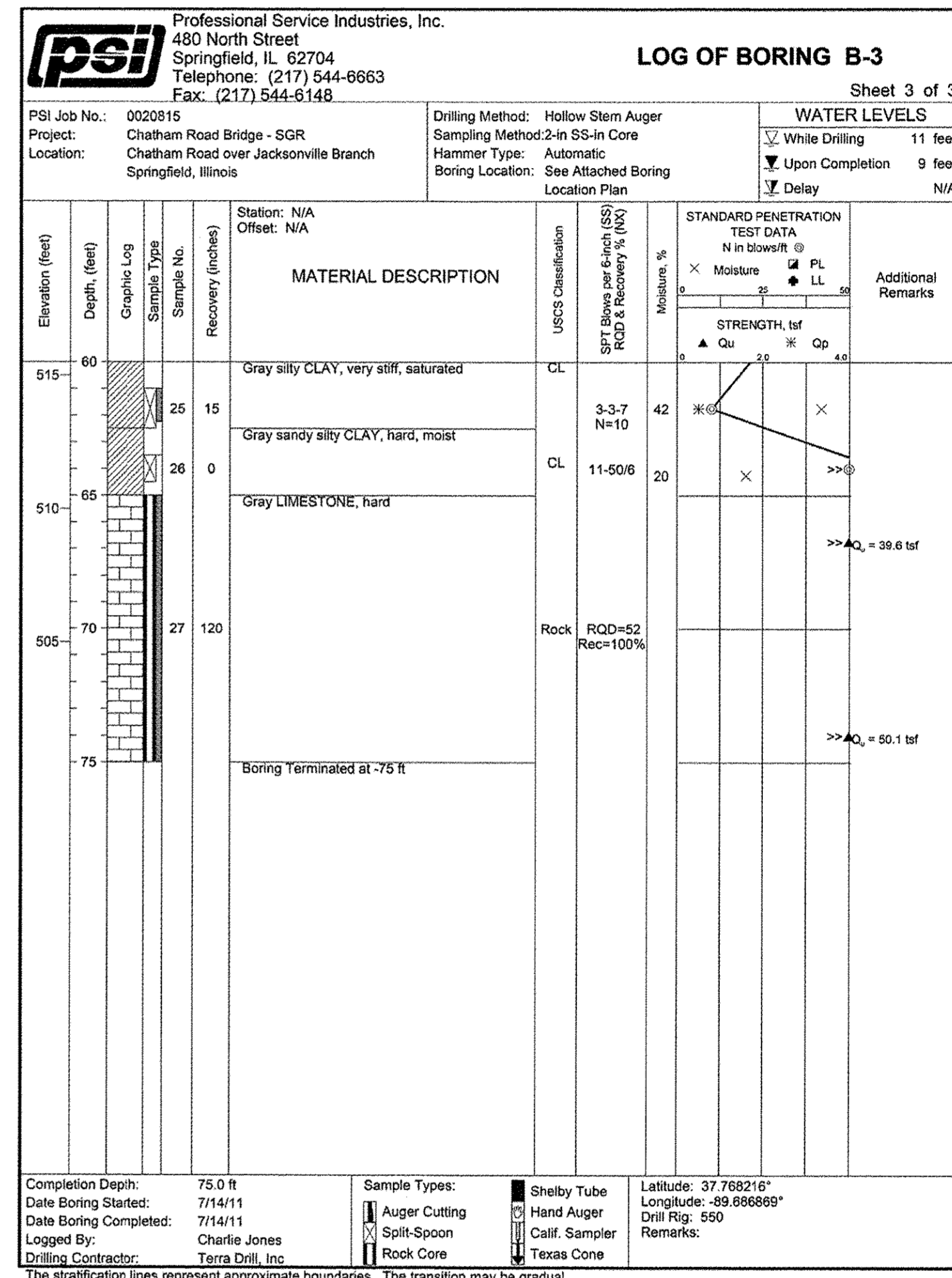
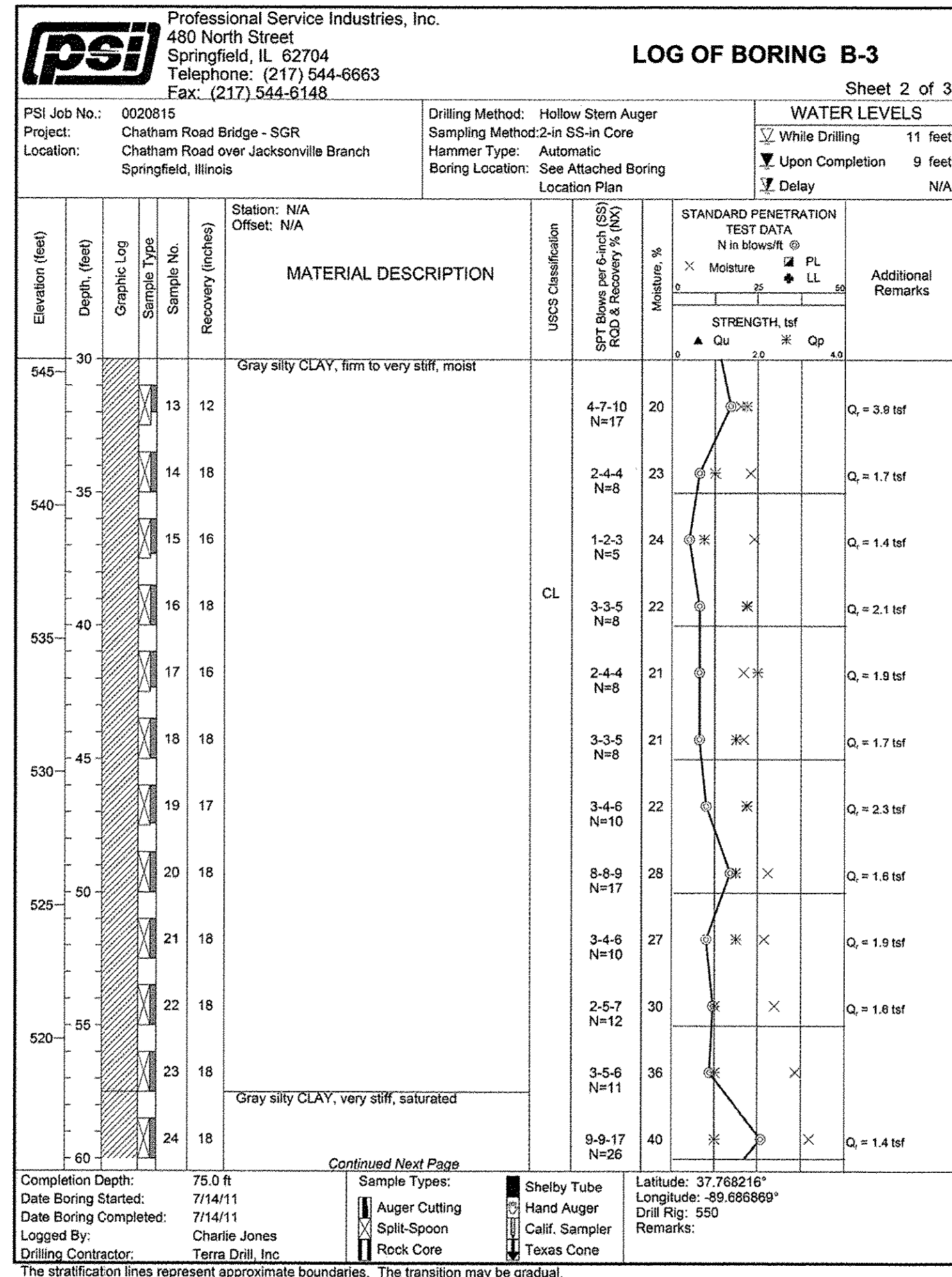
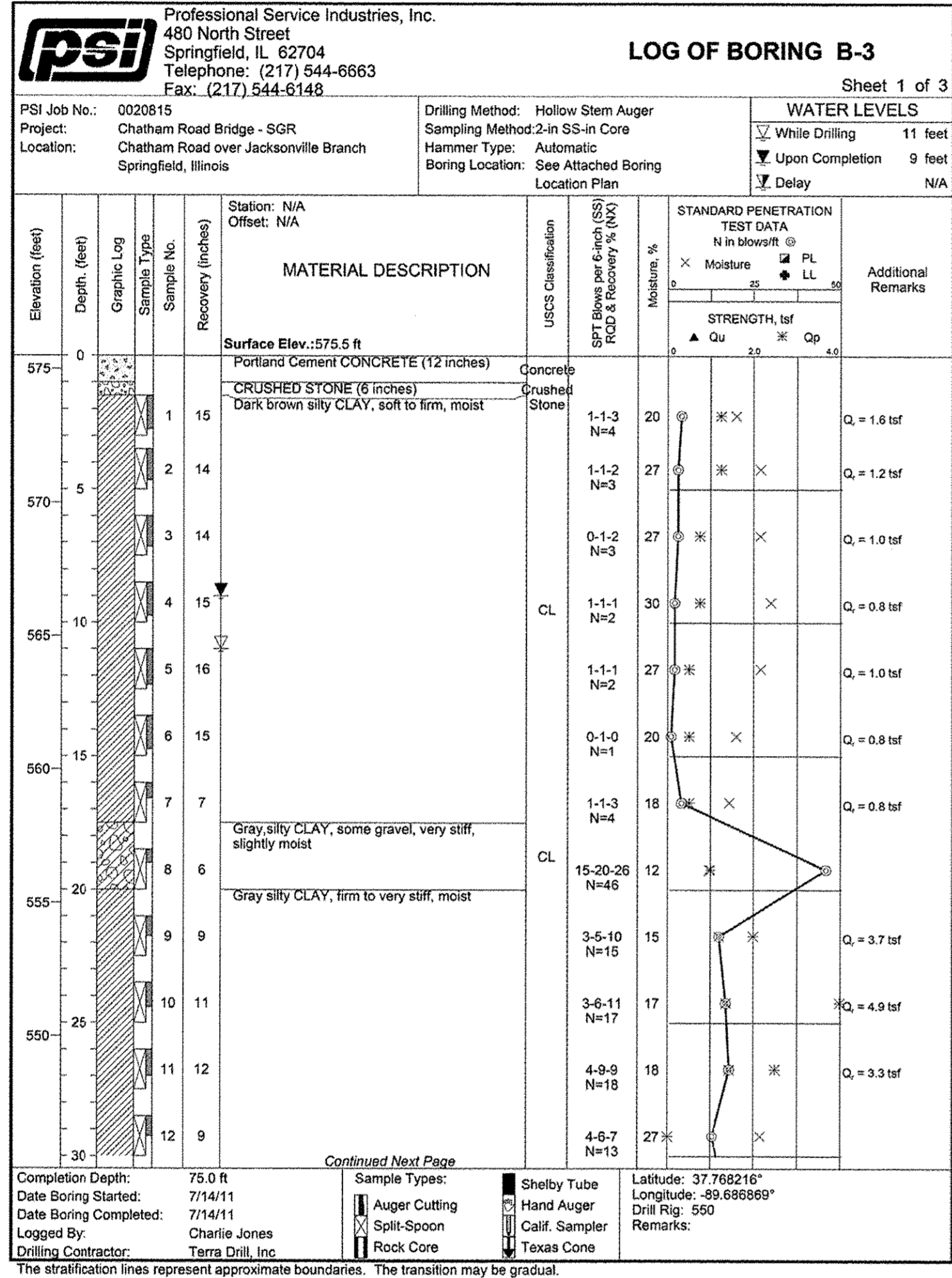
SHEET NO. 25 OF 28 SHEETS



FILE NAME =	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>BORING LOGS</b> <b>STRUCTURE NO. 084-6019</b> SHEET NO. 26 OF 28 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE =	DRAWN -	CHECKED -	REVISED -			8006	10-00470-00-BR	SANGAMON	90	66
PLOT DATE =	CHECKED -	REVISED -	CONTRACT NO. 93600			ILLINOIS FED. AID PROJECT				



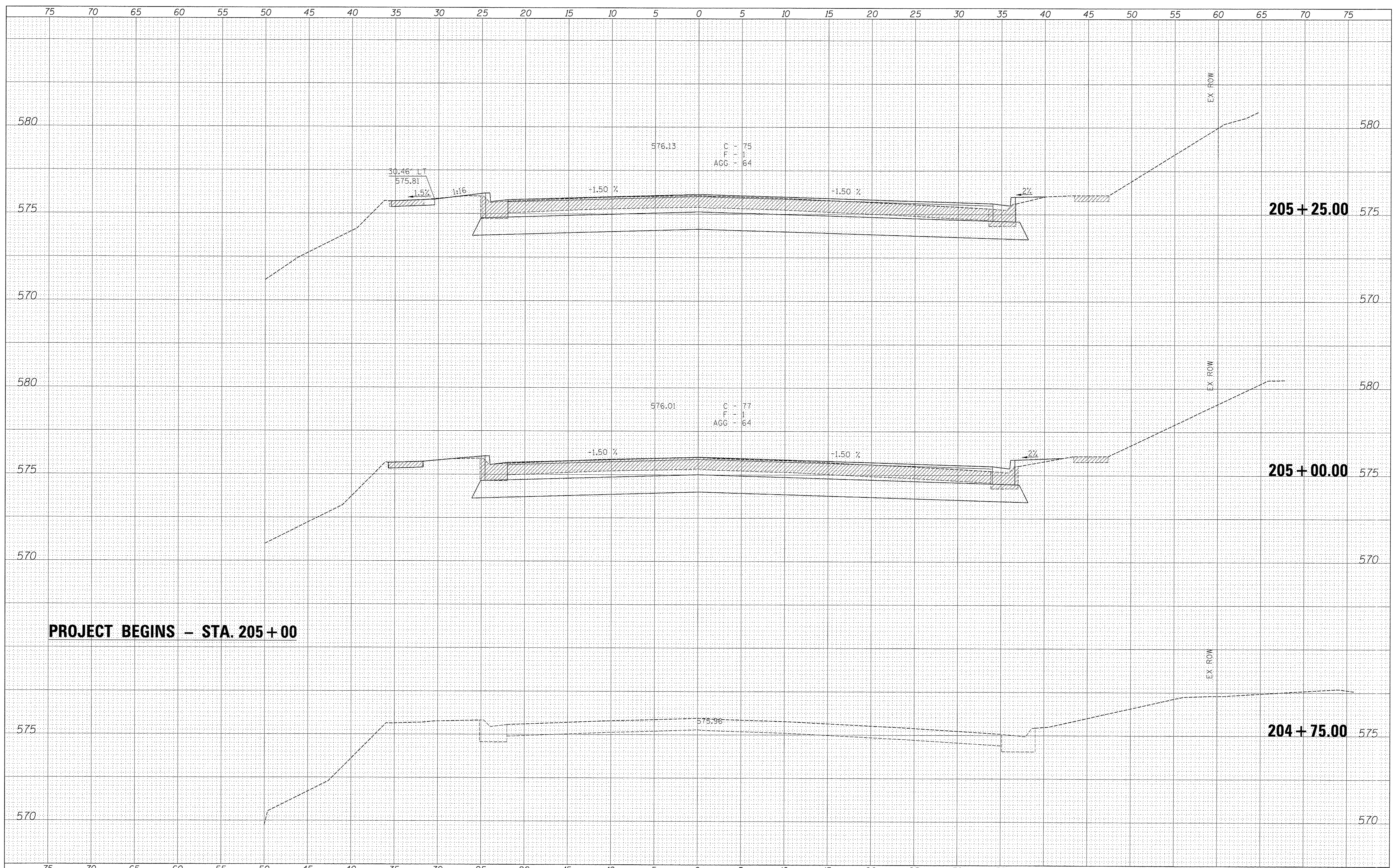


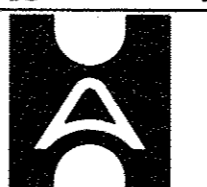




DATE	
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SURVEY	
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NOTE BOOK	
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DATE	
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NOTE BOOK	
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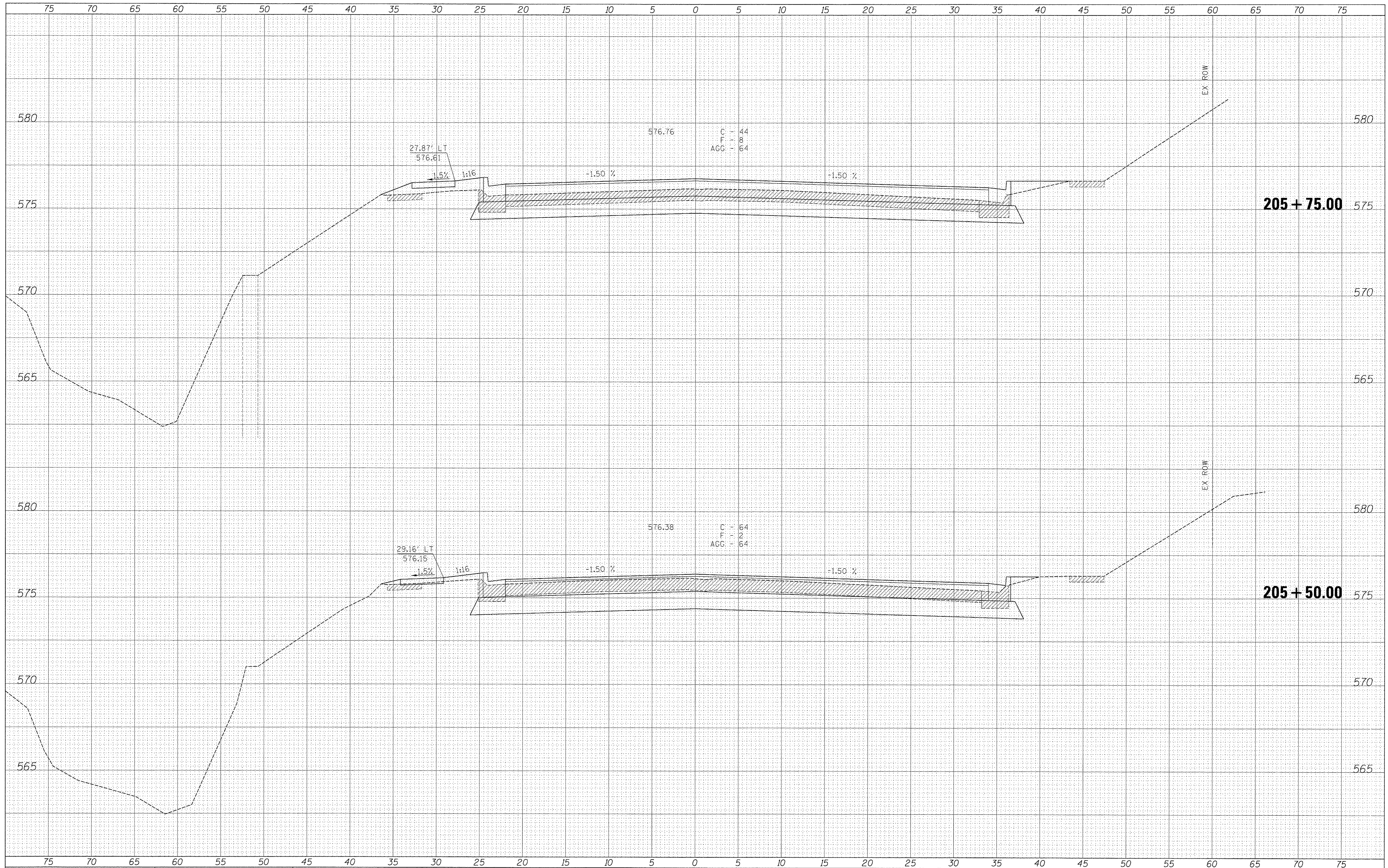


FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>CROSS SECTIONS</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -		SCALE: VARIES	SHEET NO. 1 OF 22 SHEETS	8006	10-00470-00-BR	SANGAMON	90	69
		CHECKED -	REVISED -		STA. 204+75.00 TO STA. 205+25.00		CONTRACT NO. 93600		ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -								



DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
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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

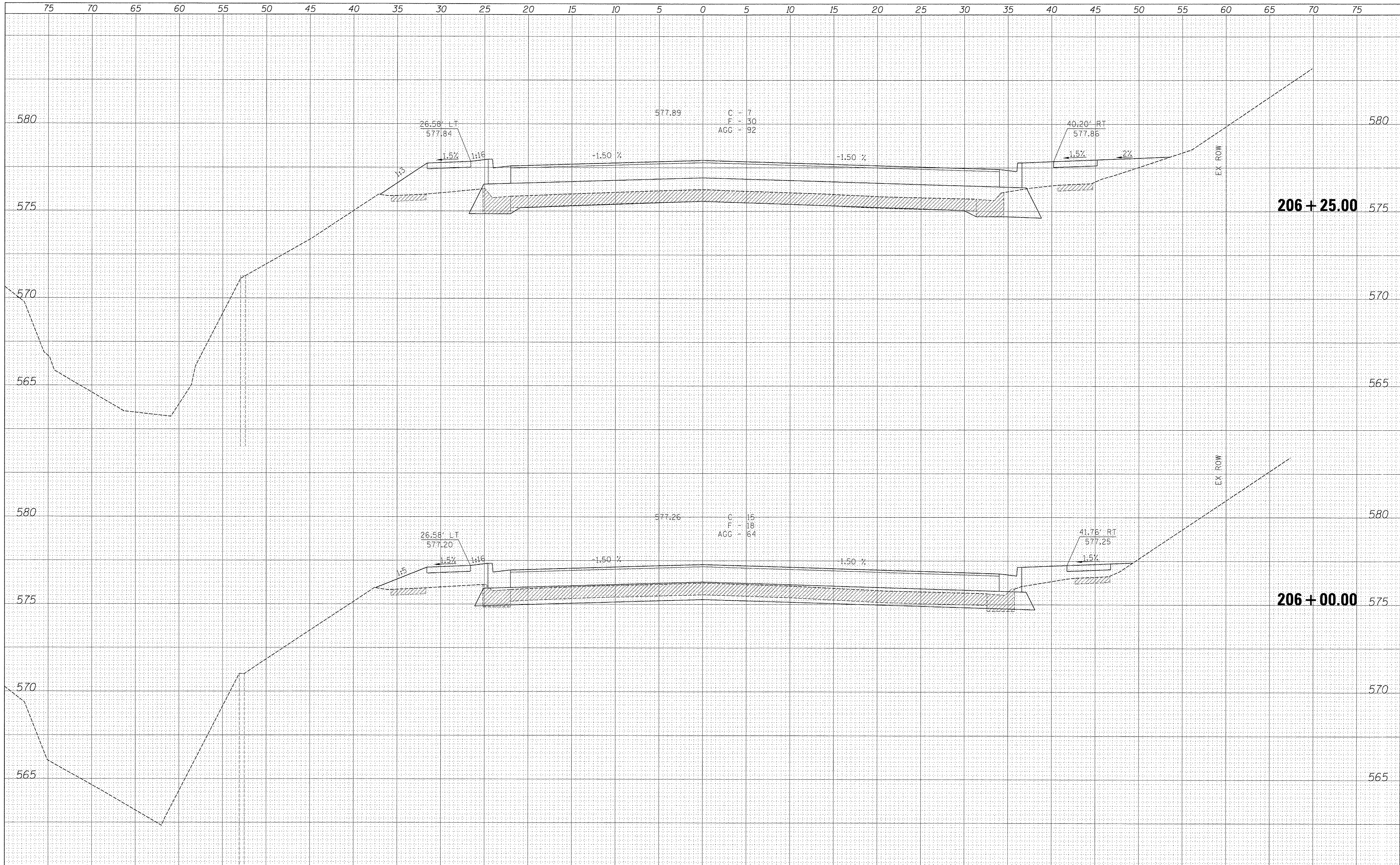
**CROSS SECTIONS**  
 SCALE: VARIES SHEET NO. 2 OF 22 SHEETS STA. 205+50.00 TO STA. 205+75.00

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	70
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. <b>93600</b>	



DATE	BY

DATE	BY



FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
#FILE#		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -



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

<b>CROSS SECTIONS</b>		
SCALE: VARIES	SHEET NO. 3 OF 22 SHEETS	STA. 206+00.00 TO STA. 206+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	71
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

**206+25.00**

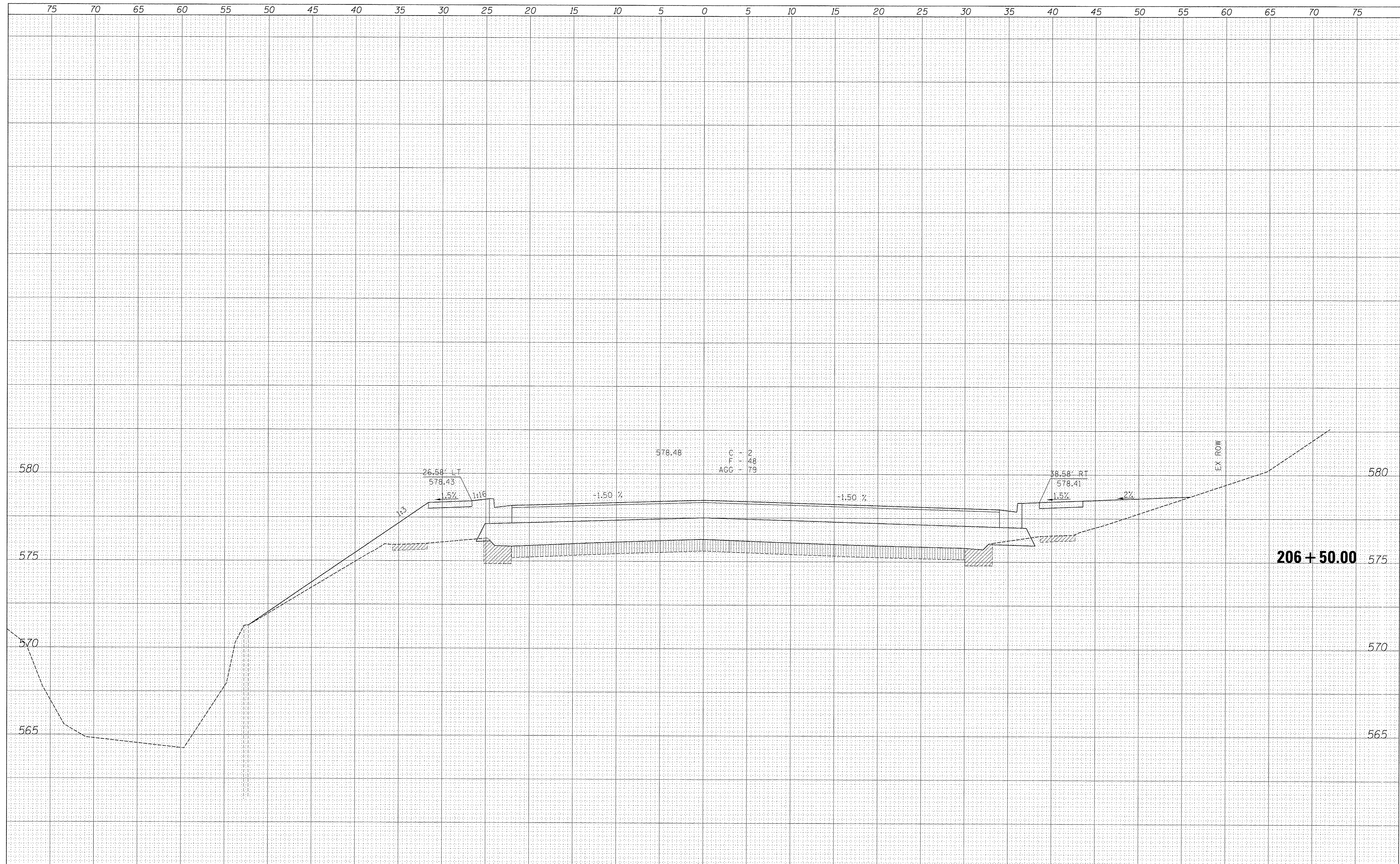
**206+00.00**


**CONTRACT NO. 93600**



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

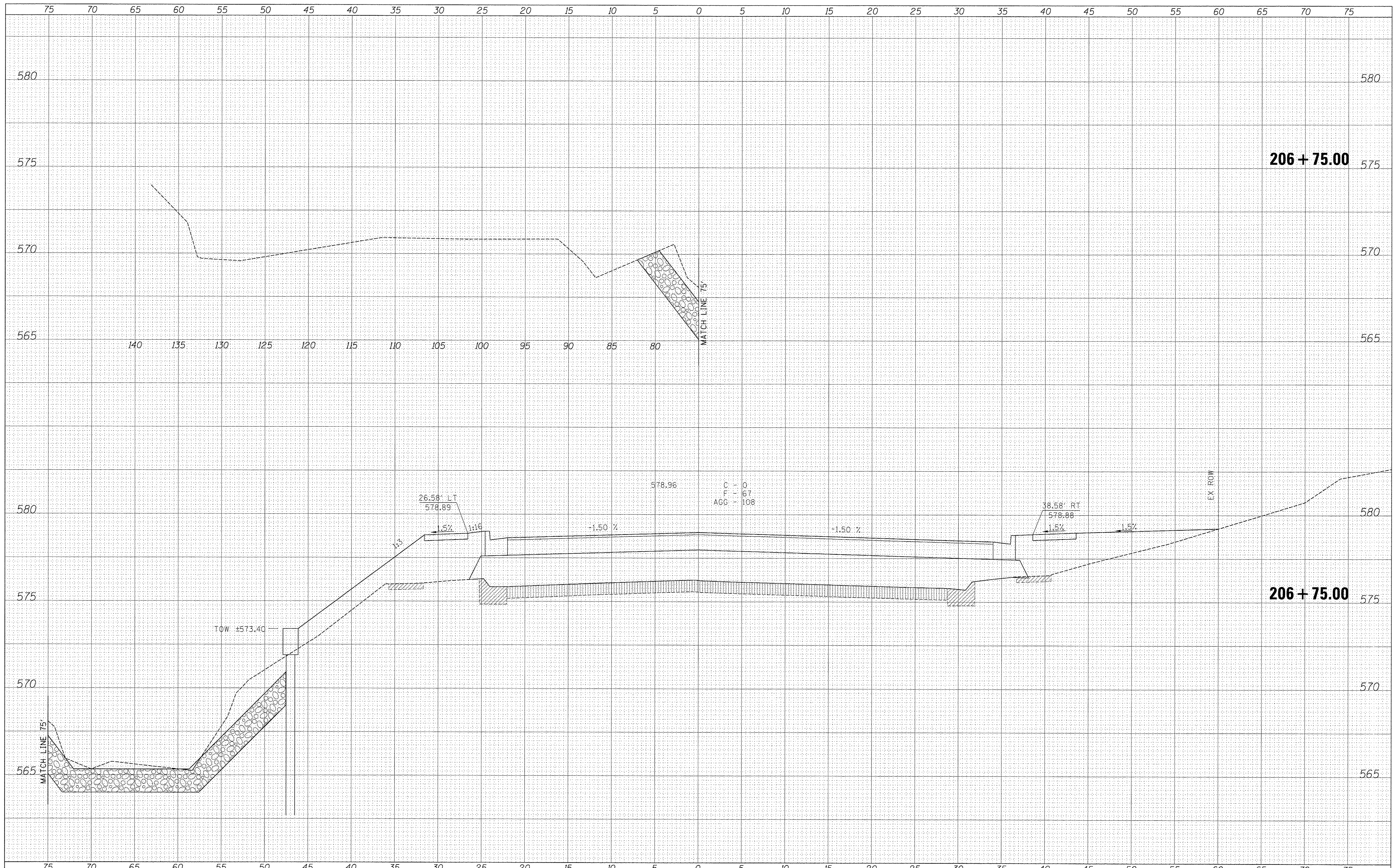



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		DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FINAL SURVEY	DATE
CONTRACT NO.	BY
PROJECT NAME	
PLATE NO.	
NOTE BOOK NO.	
AREAS CHECKED	
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ORIGINAL SURVEY	DATE
CONTRACT NO.	BY
PROJECT NAME	
PLATE NO.	
NOTE BOOK NO.	
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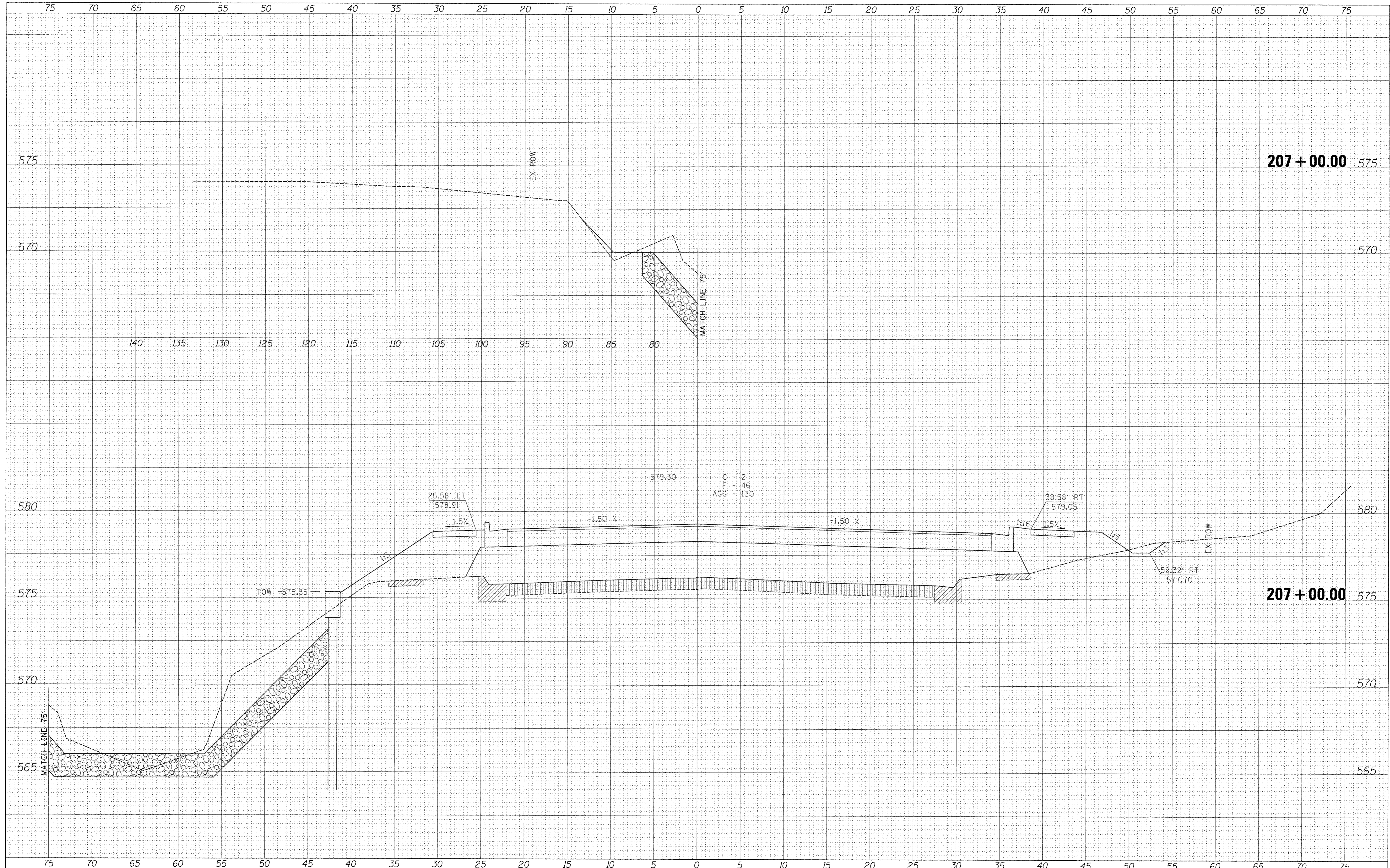


FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>CROSS SECTIONS</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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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



FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
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FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
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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

SCALE: VARIES SHEET NO. 6 OF 22 SHEETS STA. 207+00.00

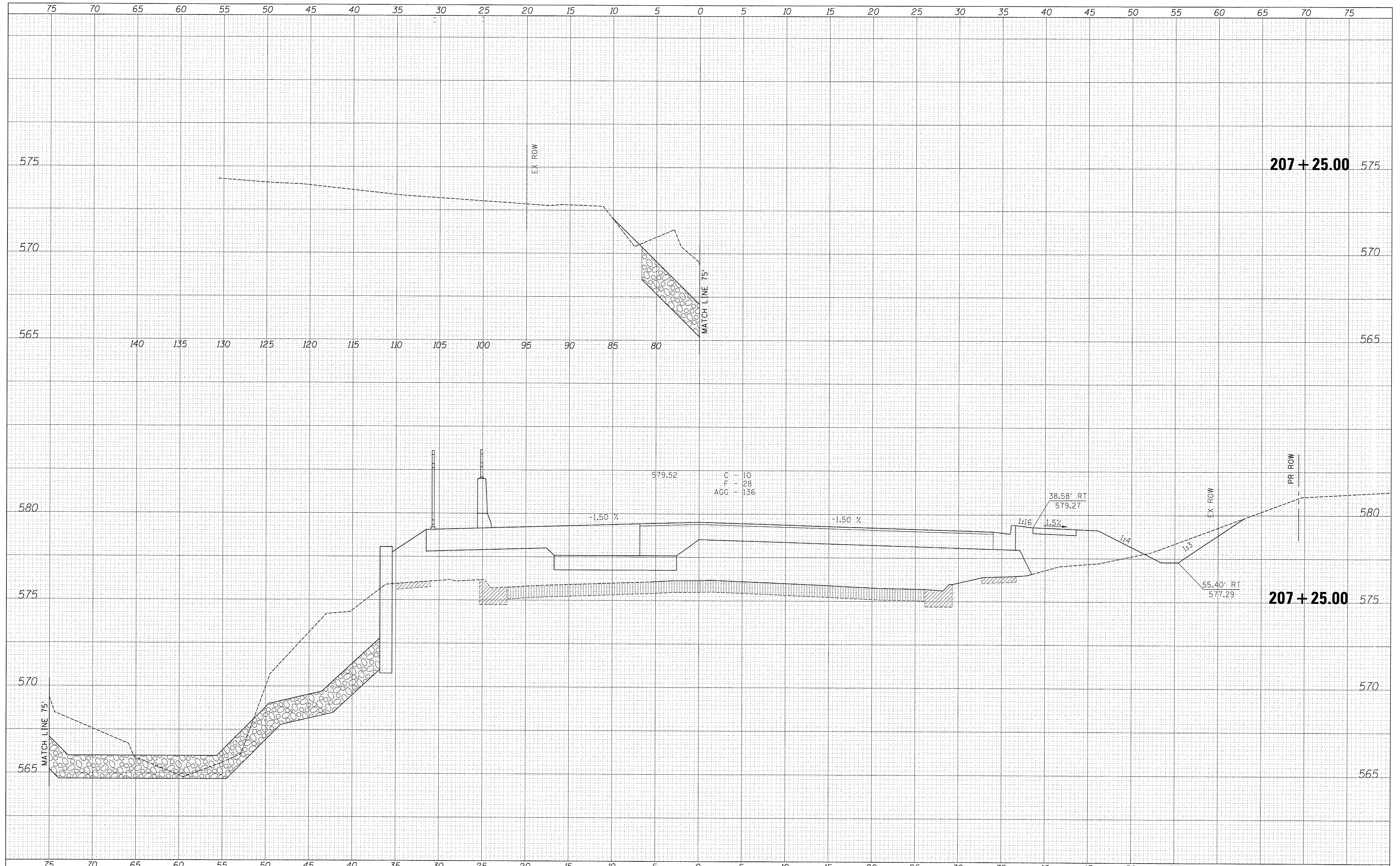
**CROSS SECTIONS**


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	74
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 93600	



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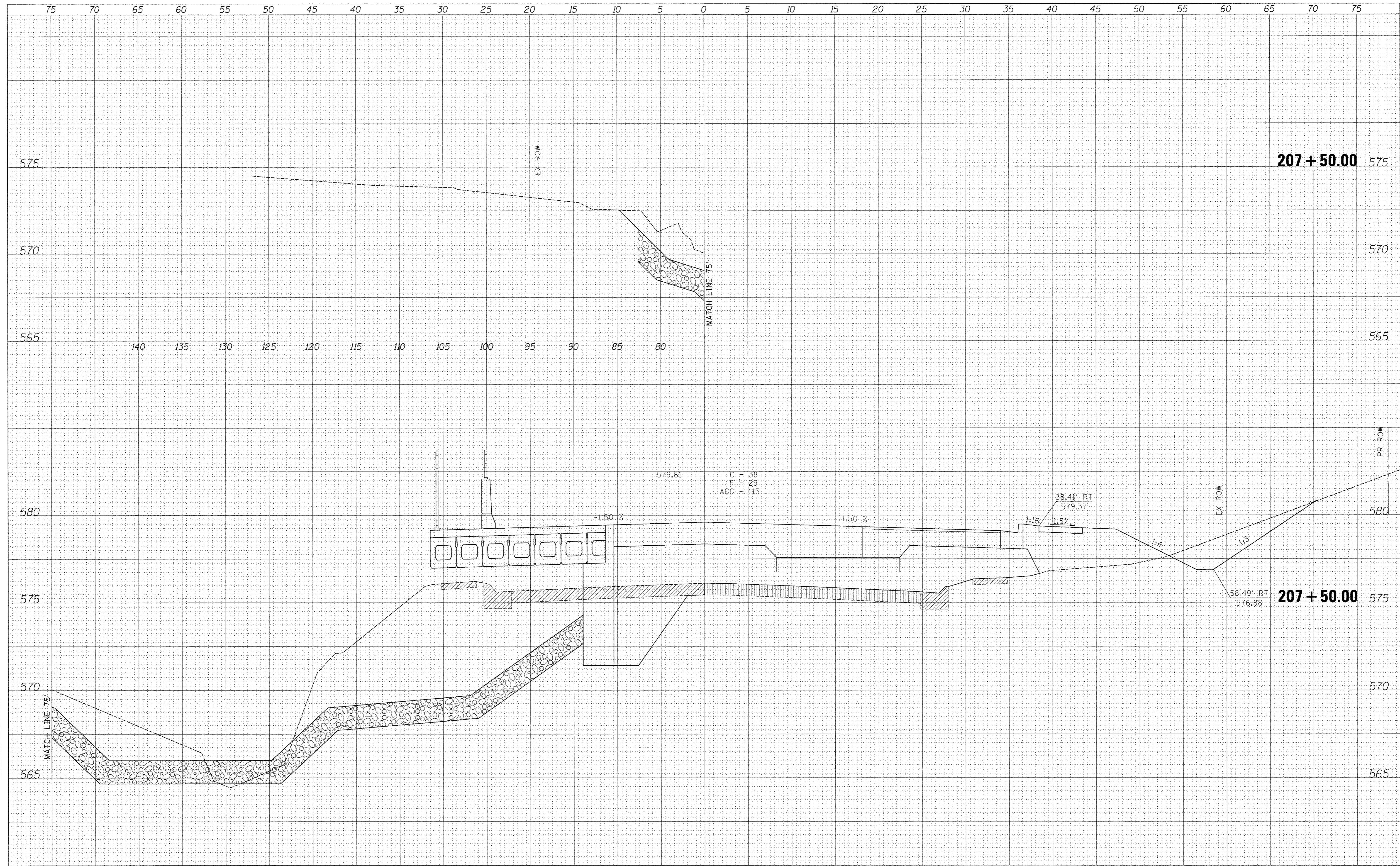



FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISÉD -	 <b>Allen Henderson &amp; Associates, Inc.</b> Civil and Structural Engineers Springfield, IL. 62703 Phone: (217)544-8033 IL Design Firm No. 184-001907	<b>CROSS SECTIONS</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE -	REVISÉD -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT							



FINAL SURVEY	DATE
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ORIGINAL SURVEY	DATE
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FILE NAME =	USER NAME = *USERS*	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</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE -	REVISED -								

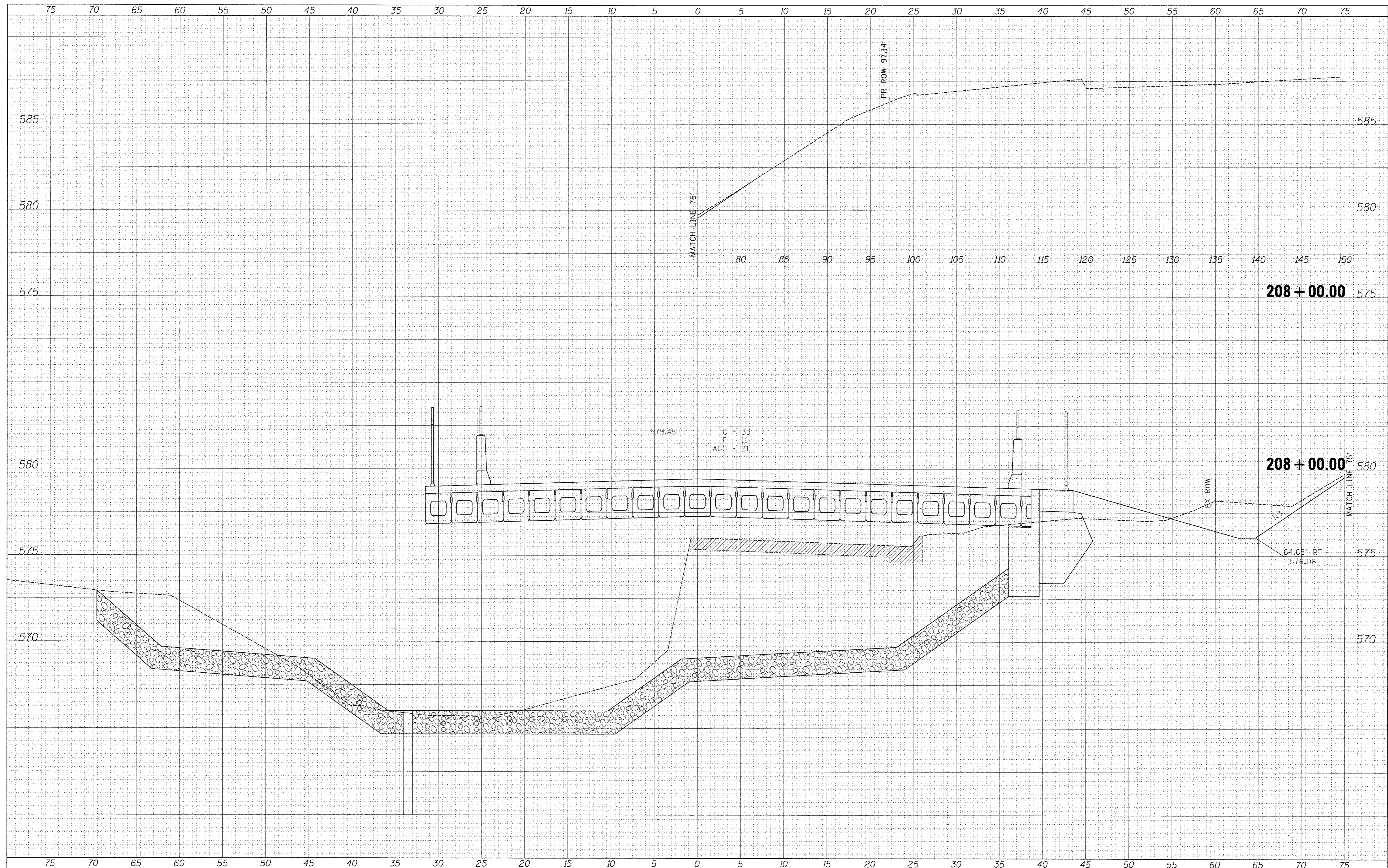






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SURVEY	PLOTTED	BY
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ORIGINAL	SURVEYED	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
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 No. 184-001907

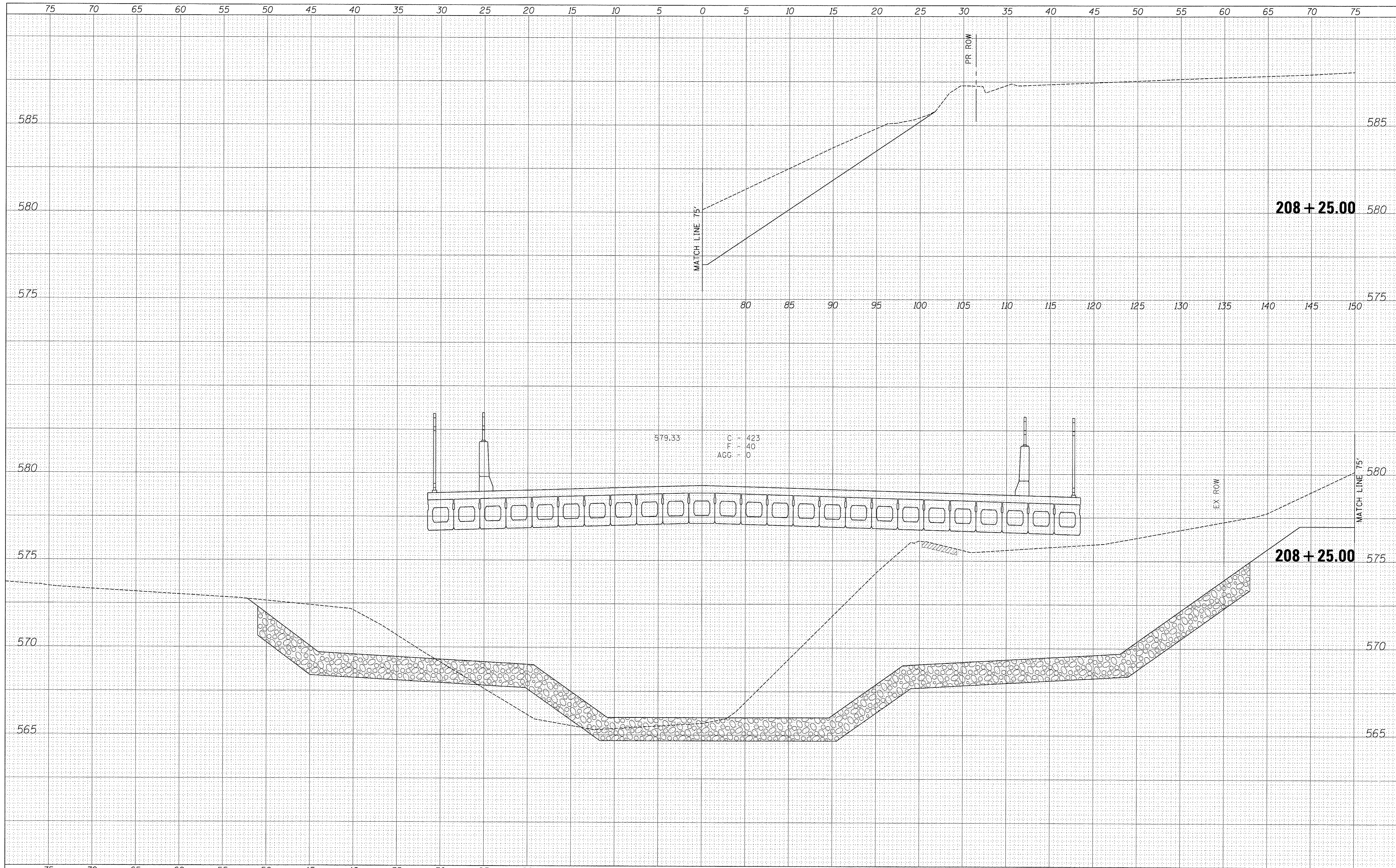
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SCALE: VARIES	SHEET NO. 10 OF 22 SHEETS	STA. 208+00.00	


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	78
FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT
CONTRACT NO. 93600				



FINAL SURVEY	BY	DATE
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NOTE BOOK		
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ORIGINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
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TEMPLATES		
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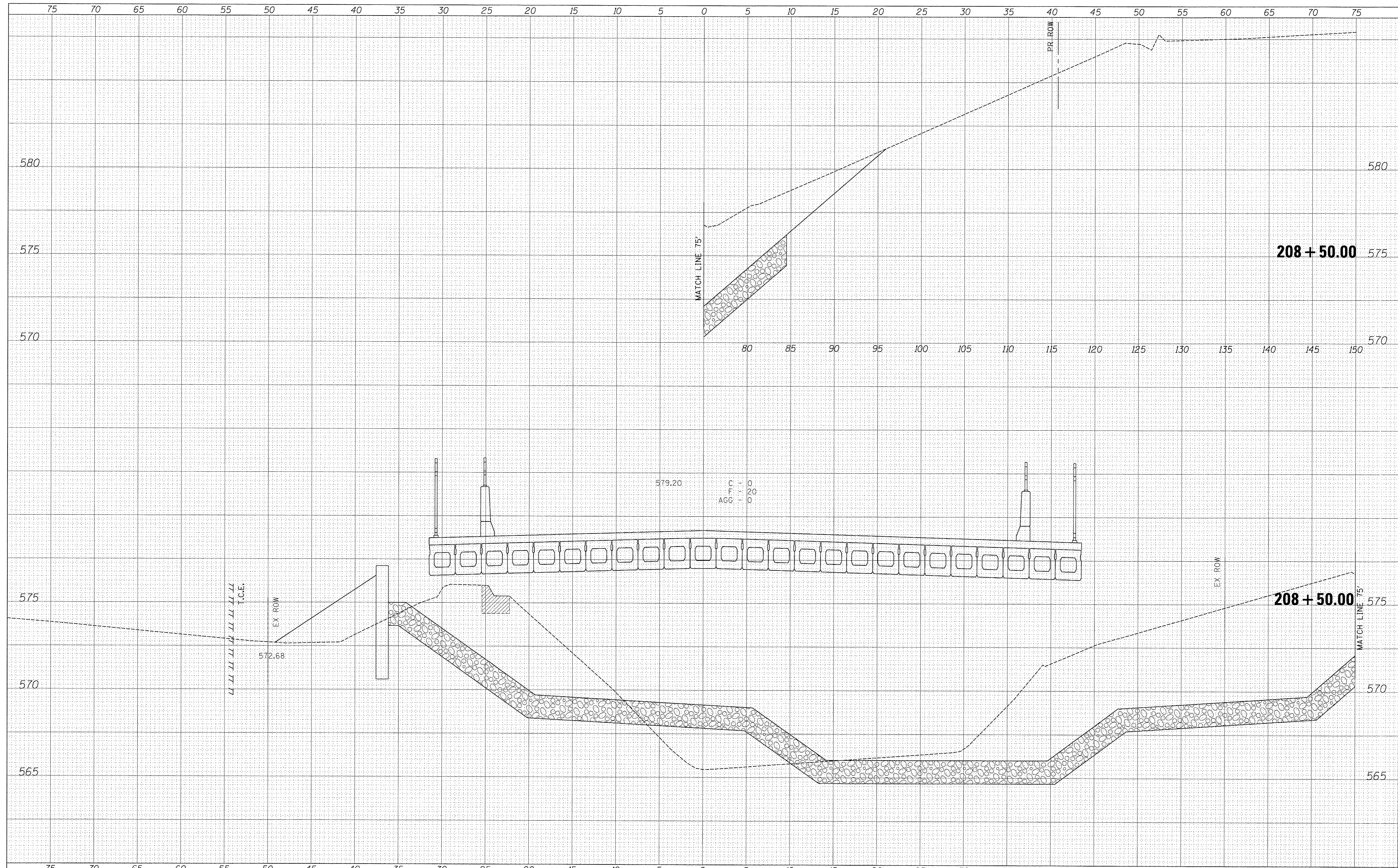


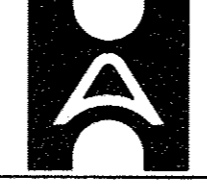
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		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				



FINAL SURVEY	DATE
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NOTE BOOK	
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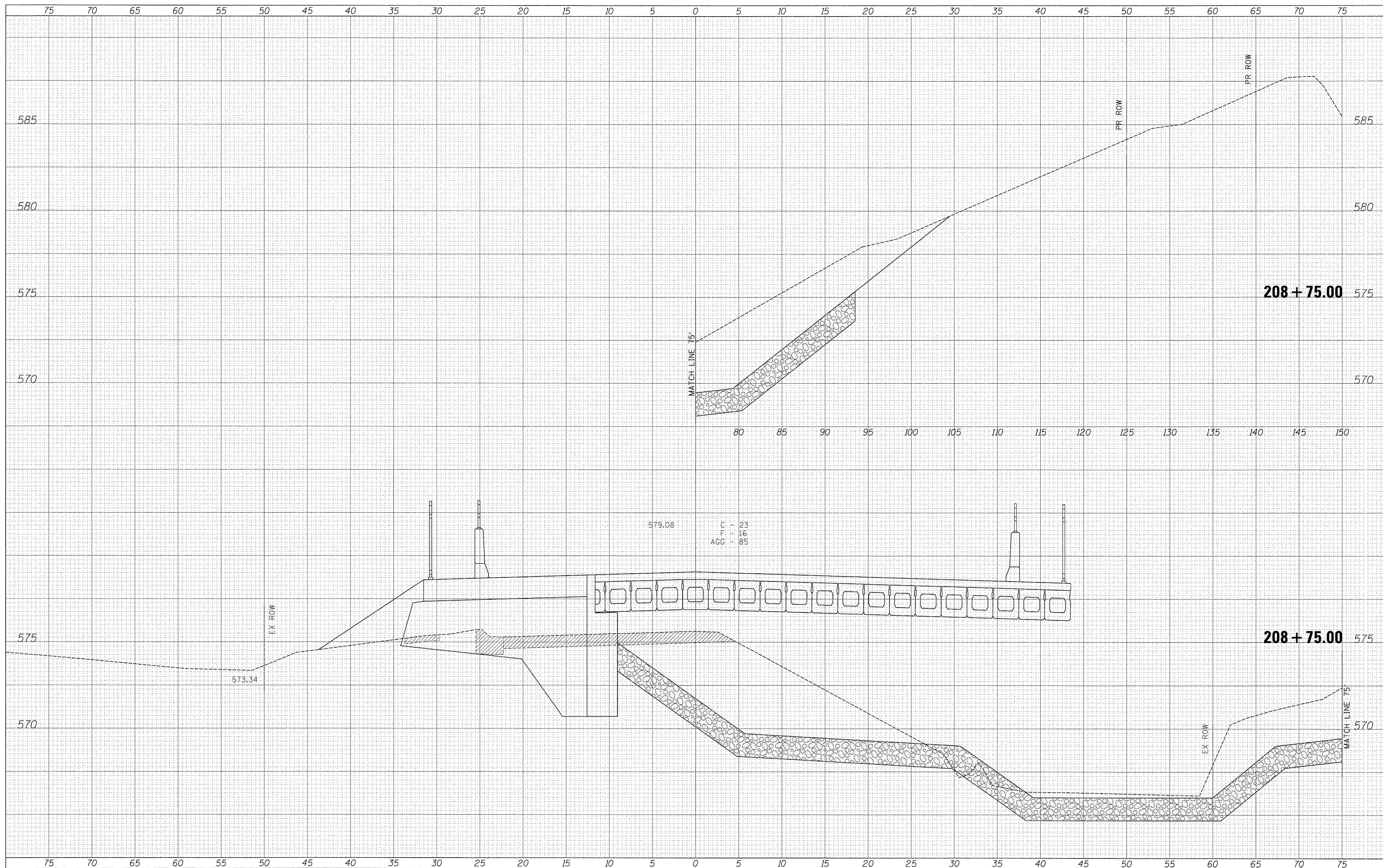


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		DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FINAL SURVEY BY DATE  
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ORIGINAL SURVEY BY DATE  
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 NOTE BOOK NO. \_\_\_\_\_  
 TEMPLATE AREAS CHECKED



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

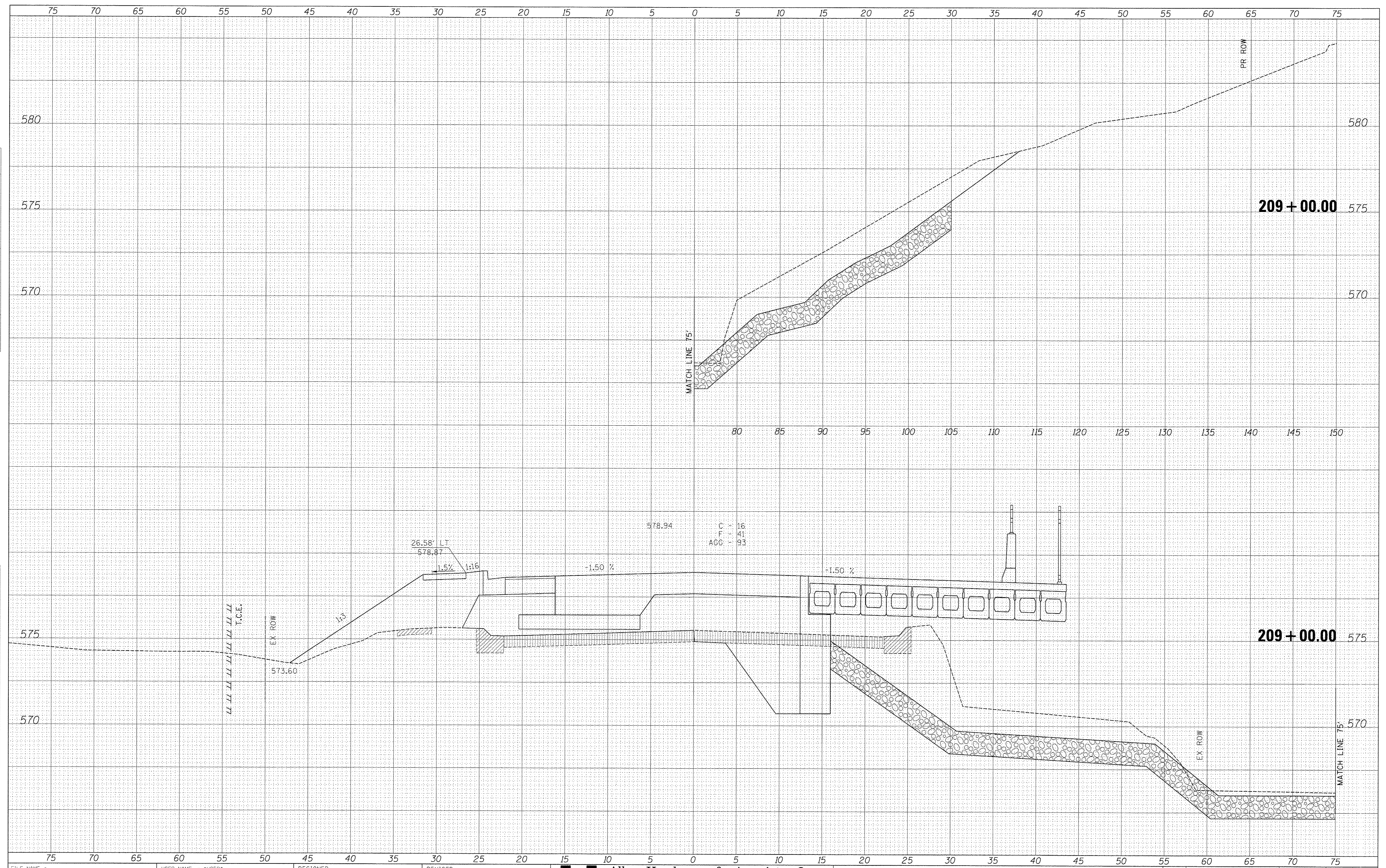
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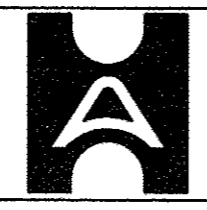
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FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 93600	



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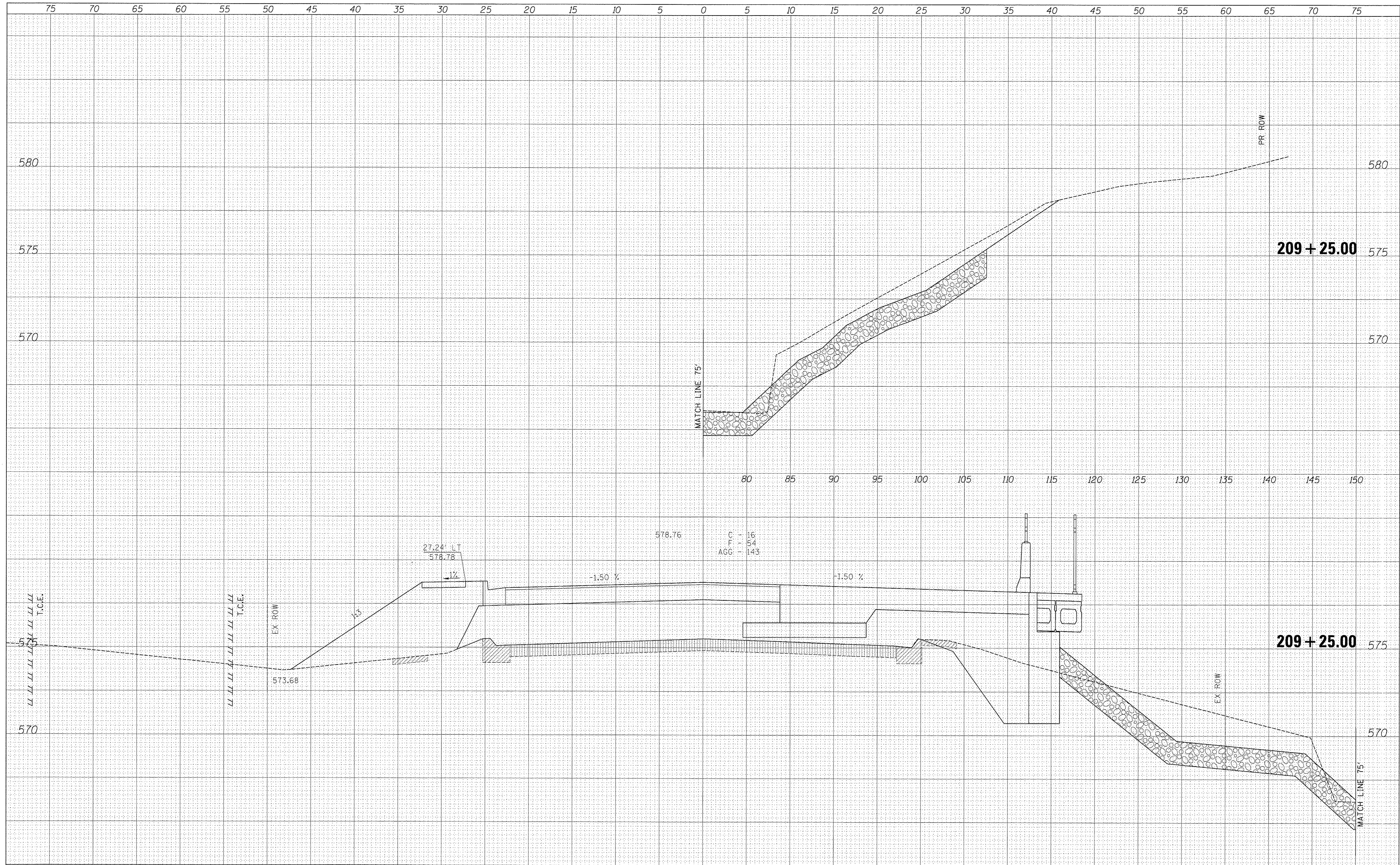



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		DATE -	REVISED -				FED. ROAD DIST. NO.		[ILLINOIS] FED. AID PROJECT			



FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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ORIGINAL SURVEY	SURVEYED	DATE
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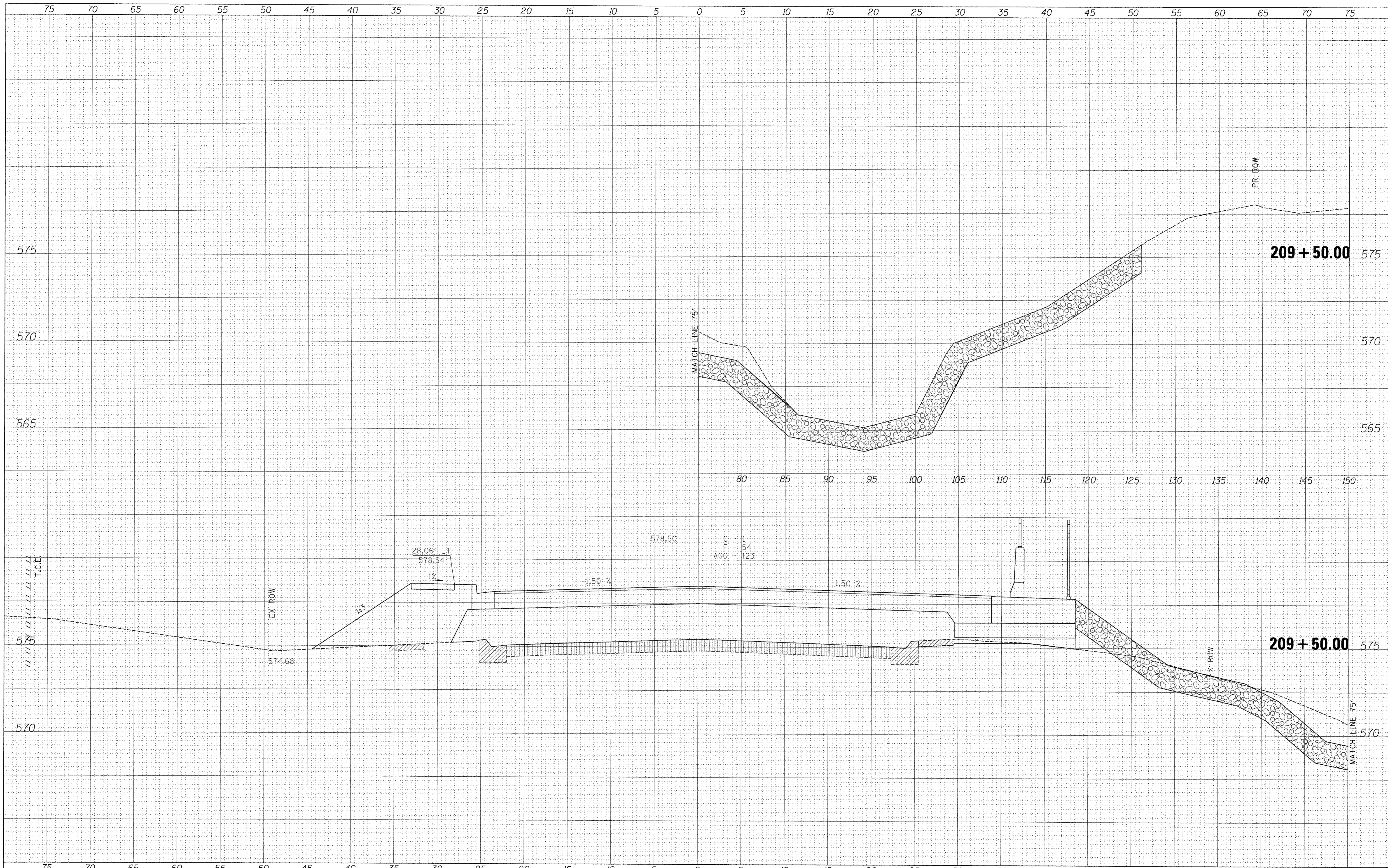
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		DATE -	REVISED -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT						


SCALE: VARIES    SHEET NO. 15 OF 22 SHEETS    STA. 209+25.00



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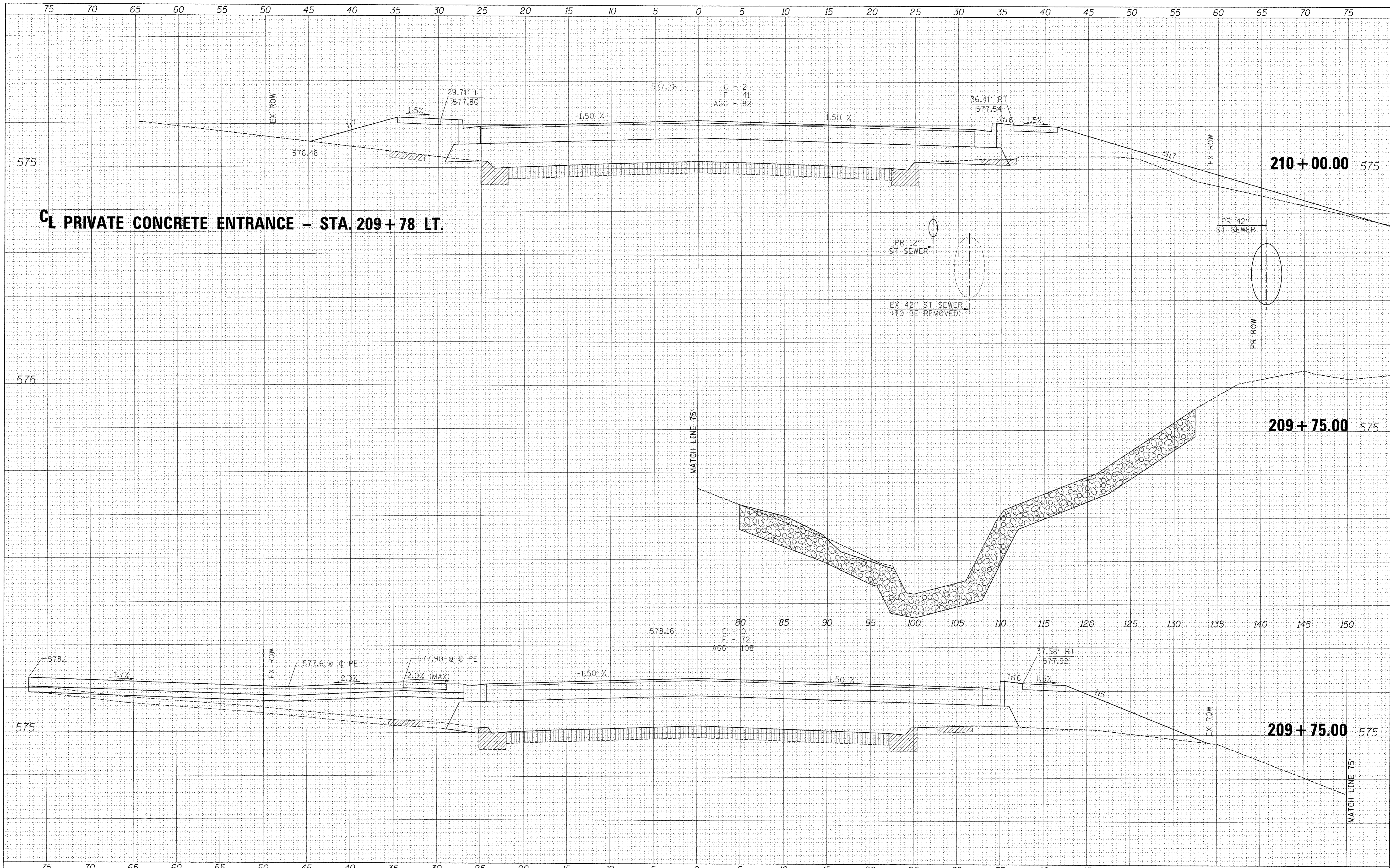


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		DATE -	REVISED -					FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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	DATE -	REVISED -

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

CROSS SECTIONS		
SCALE: VARIES	SHEET NO. 17 OF 22 SHEETS	STA. 209+75.00 TO STA. 210+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	85
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 93600	

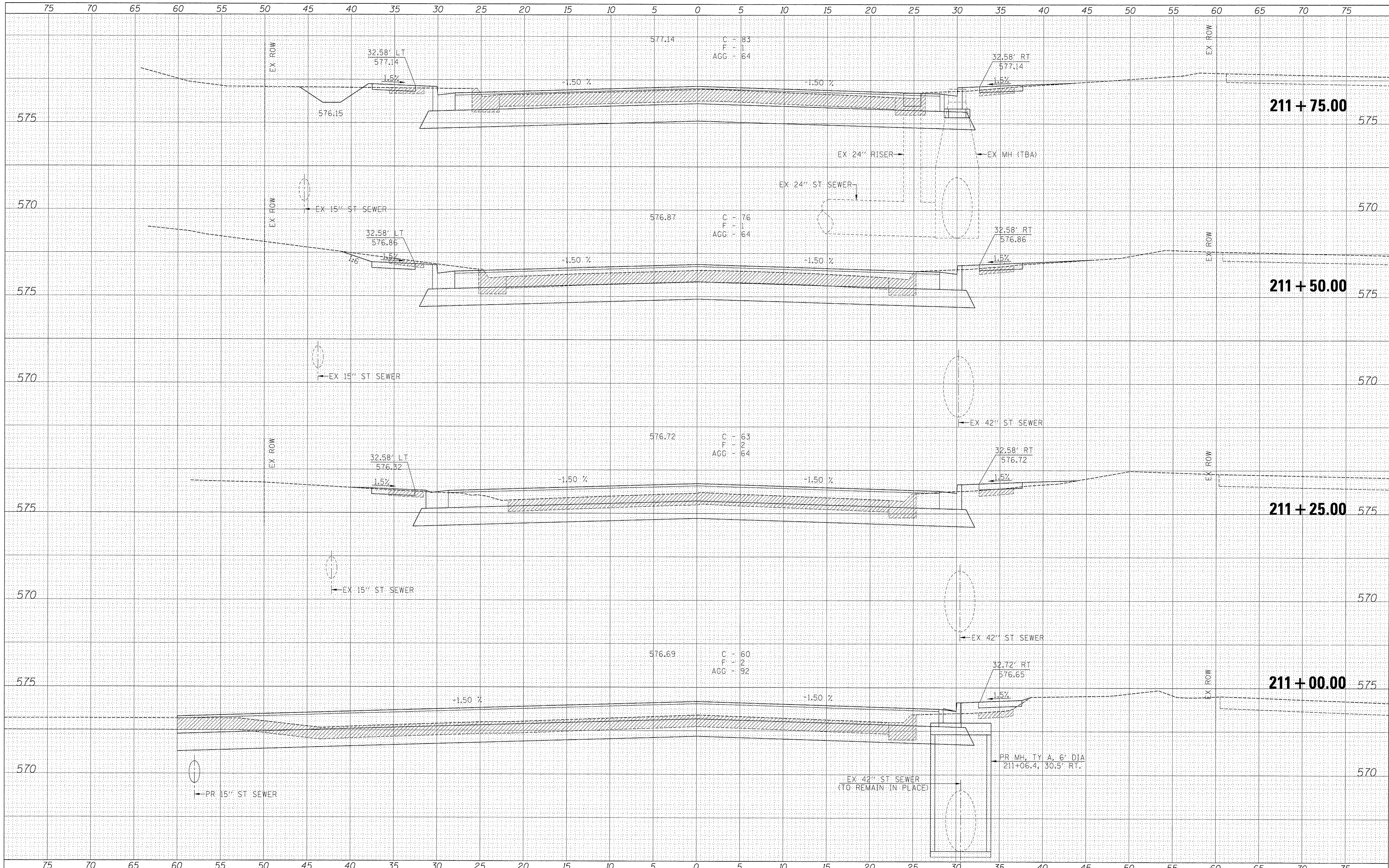






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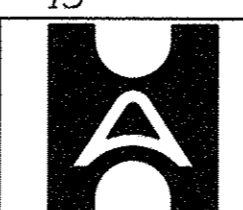
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NOTE BOOK	
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**Allen Henderson & Associates, Inc.**  
 Civil and Structural Engineers Springfield, IL  
 62703 Phone: (217)544-8033 IL Design Firm  
 No. 184-001907

SCALE: VARIES		SHEET NO. 19 OF 22 SHEETS		STA. 211+00.00 TO STA. 211+75.00	
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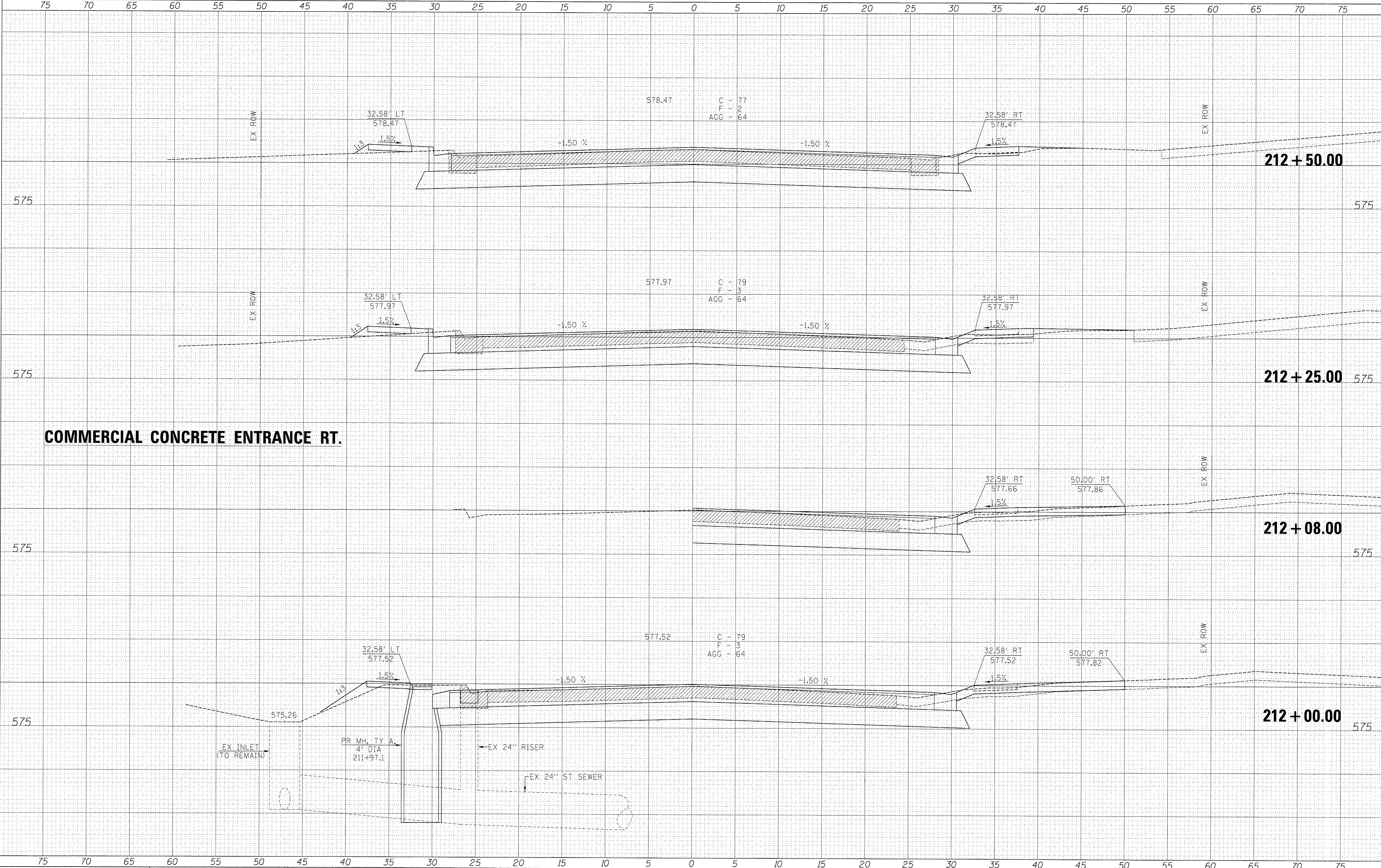
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	87
CONTRACT NO. 93600				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



DATE	
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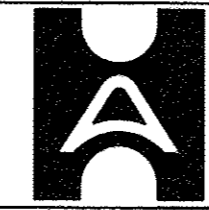
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**COMMERCIAL CONCRETE ENTRANCE RT.**

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		DATE -	REVISED -

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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: VARIES	SHEET NO. 20 OF 22 SHEETS	STA. 212+00.00	TO STA. 212+50.00

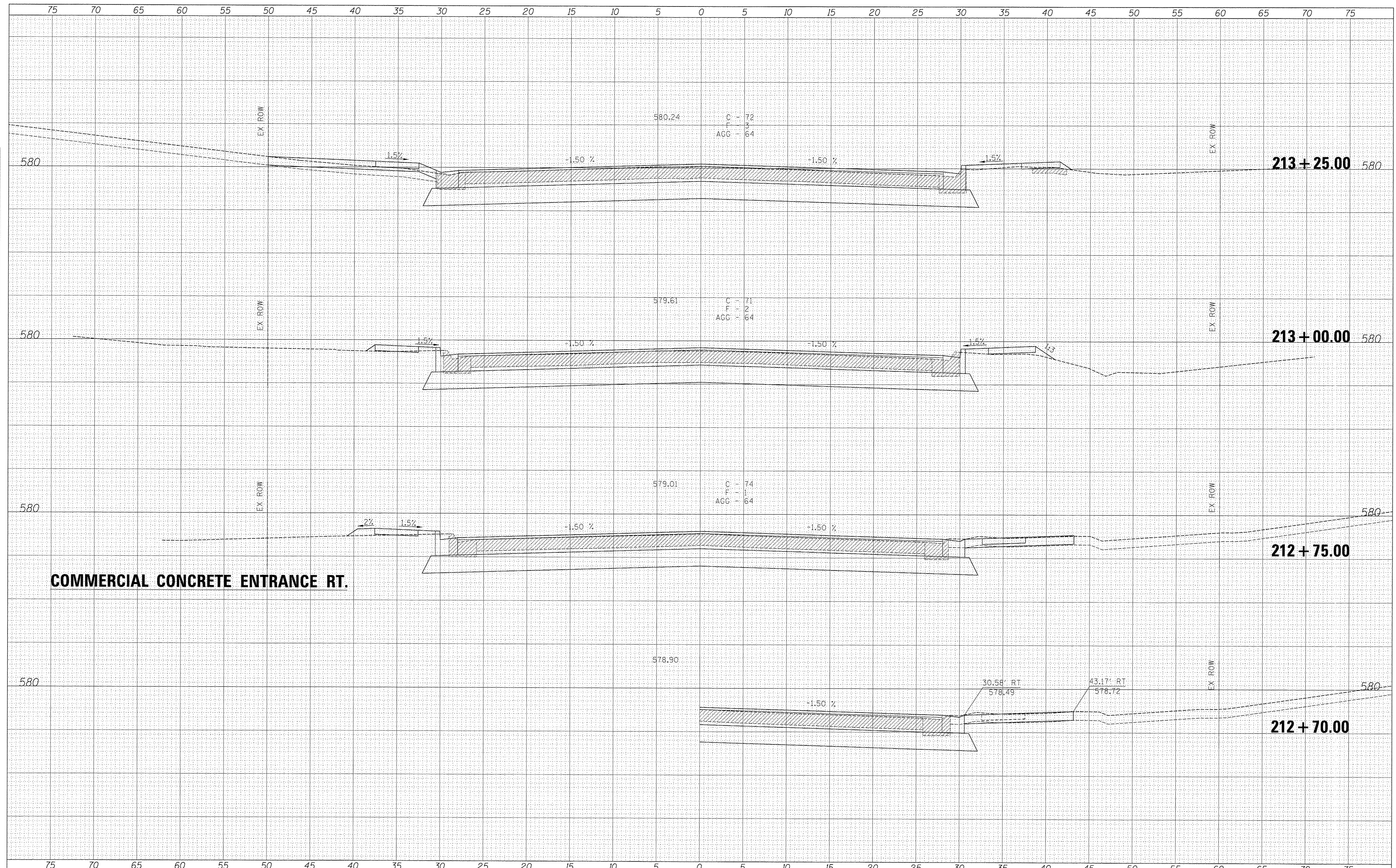
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FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. **93600**



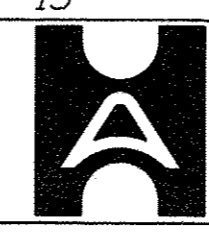
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BY	
DESIGNED	
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REVISIONS	
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REVISIONS	
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	DRAWN -
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DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

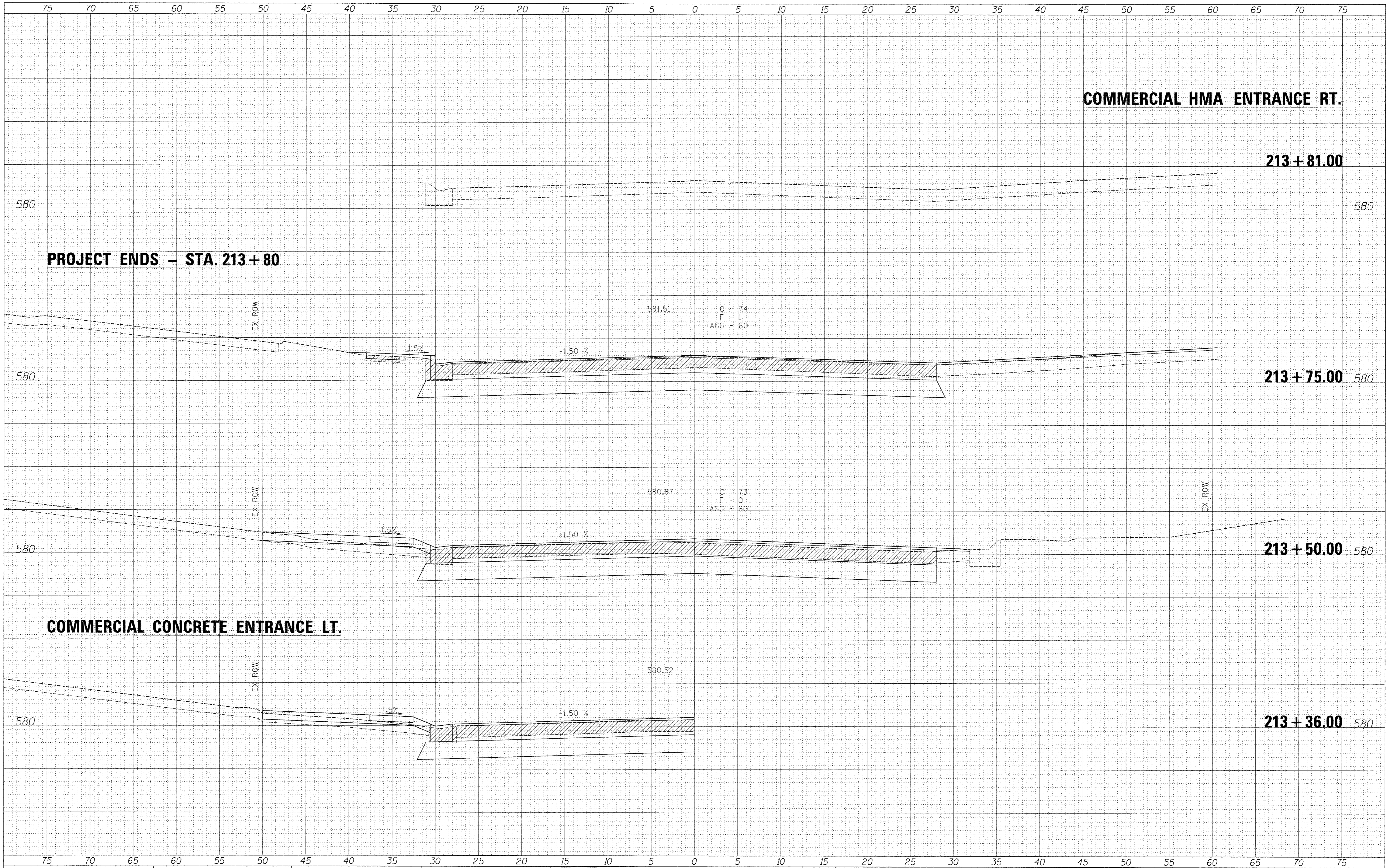


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<b>CROSS SECTIONS</b>	
SCALE: VARIES	SHEET NO. 21 OF 22 SHEETS
STA. 212+70.00 TO STA. 213+25.00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 93600		





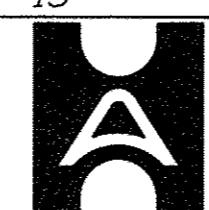
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NO.	TEMPLATE
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NOTE BOOK	PLOTTED
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DESIGNED -	REVISOR -
DRAWN -	REVISION -
CHECKED -	REVISION -
DATE -	REVISION -



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<b>CROSS SECTIONS</b>	
SCALE: VARIES	SHEET NO. 22 OF 22 SHEETS
STA. 213+36.00 TO STA. 213+81.00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8006	10-00470-00-BR	SANGAMON	90	90
CONTRACT NO. 93600				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				