

# PLANS FOR PROPOSED

## CITY OF HIGHLAND SHARPSHOOTERS BIKE TRAIL CONSTRUCTION FAU ROUTE 8854 MADISON COUNTY SECTION: 14-00068-00-BT PROJECT: TE-00D8 (195) JOB NO.: C-98-350-14

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	1
FEDERAL AID PROJECT ILLINOIS		CONTRACT NO. 97627		

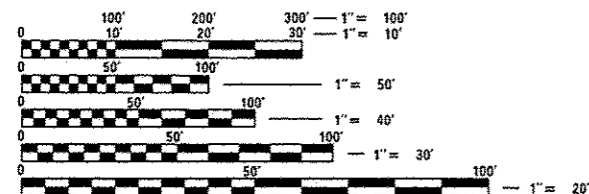
SHEET NO.	ITEM
1	COVER SHEET
2	GENERAL NOTES, UTILITIES, & COMMITMENTS
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28-36	STRUCTURE PLANS
37	WOOD FENCE DETAILS
38-40	CONSTRUCTION DETAILS
41-61	CROSS SECTIONS

### HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATES AND PATTERS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-08	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424016-02	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424026-01	ENTRANCE /ALLEY PEDESTRIAN CROSSINGS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602301-04	INLET - TYPE A
602306-03	INLET - TYPE B
602401-03	MANHOLE TYPE A
602601-04	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604006-05	FRAME AND GRATE TYPE 3
604091-03	FRAME AND GRATE TYPE 24
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-05	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
B.L.R. 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

### SCALE IN FEET

PLAN	1" = 20'
PROFILE HORIZ	1" = 20'
PROFILE VERT	1" = 5'
CROSS SECTION HORIZ	1" = 10'
CROSS SECTION VERT	1" = 5'



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

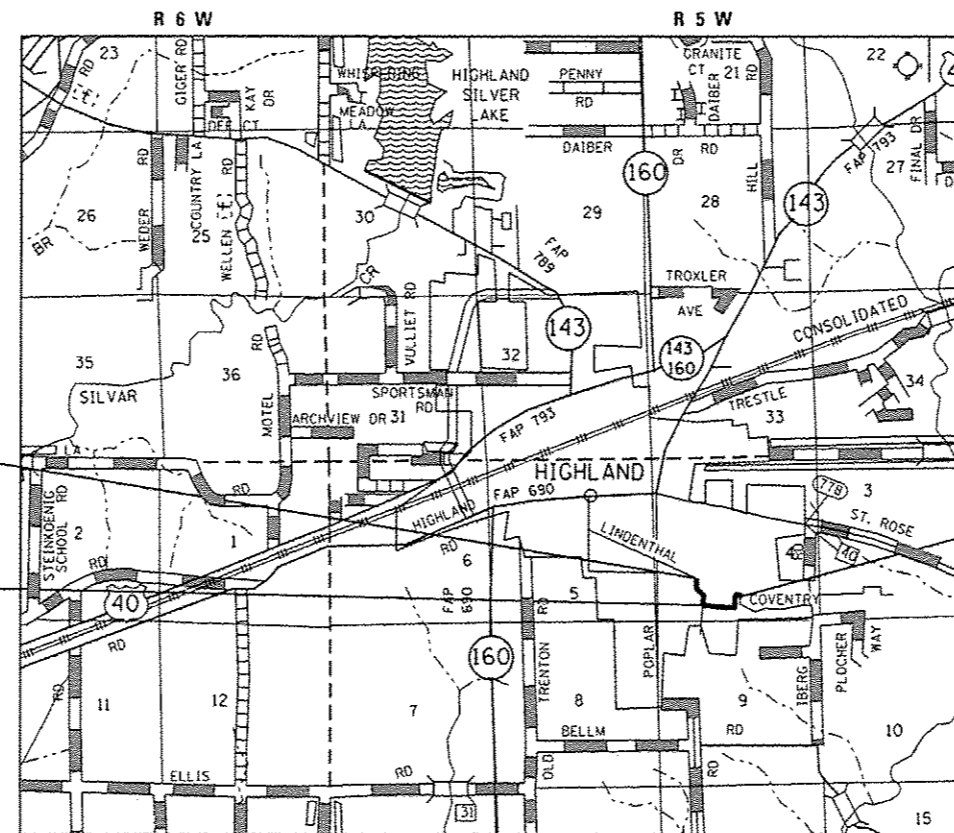
BEGIN SECTION  
STA. 10 + 00

STATION EQUATION  
20 + 50 = 120 + 50

### DESIGN DESIGNATION

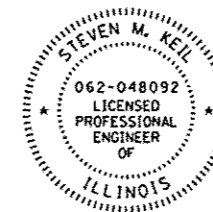
CLASSIFICATION = SHARED-USE PATH  
DESIGN SPEED = 20 MPH

GROSS LENGTH = 2,680 FT. = 0.51 MILE  
NET LENGTH = 2,680 FT. = 0.51 MILE

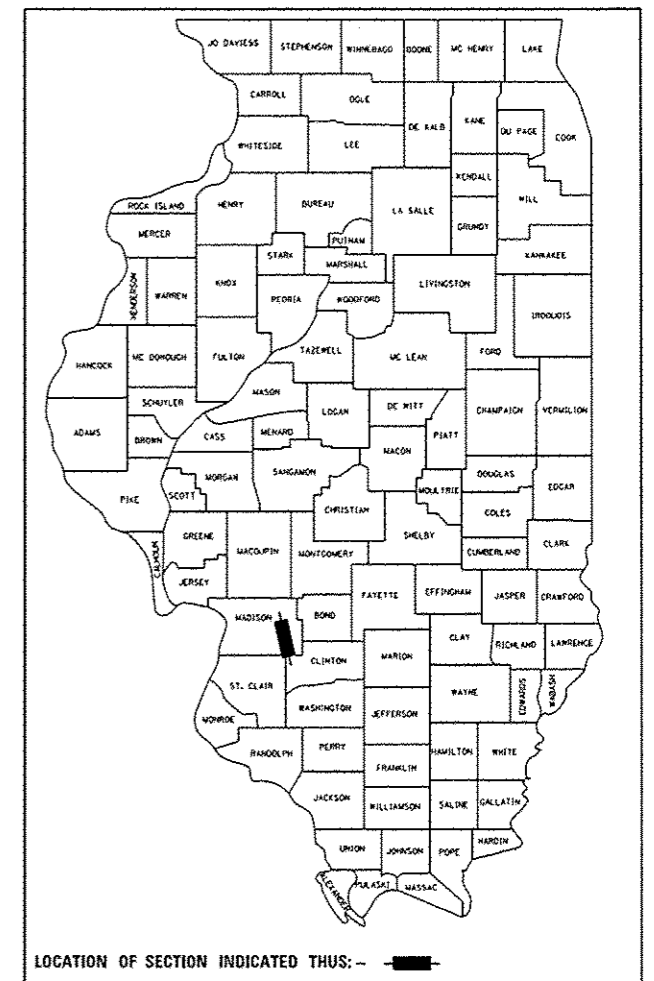


### LOCATION MAP

SCALE: 1" = 5,000'



*Steven M. Keil* 5/10/16  
STEVEN M. KEIL  
IL P.E. NO. 062-048092  
EXPIRES: 11/30/2017



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
APPROVED	DATE
<i>Joseph B. Michaelis</i>	May 10, 2016
JOSEPH R. MICHAELIS	MAYOR OF HIGHLAND
PASSED	DATE
<i>Joseph B. Michaelis</i>	May 29, 2016
acting DISTRICT ENGINEER OF LOCAL ROADS & STREETS	
RELEASING FOR BID BASED ON LIMITED REVIEW	DATE
<i>Jeffrey L. Keim</i>	May 29, 2016
REGION FIVE ENGINEER	



COLLINSVILLE 100 Lantor Court, Suite 1  
Collinsville, IL 62234  
tel 618.345.2200

BELLEVILLE 20 E. Main Street  
Belleville, IL 62220  
tel 618.416.4668

ST. LOUIS 720 Olive, Suite 1660  
St. Louis, MO 63101  
tel 314.588.8381

www.oatesassociates.com  
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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**GENERAL NOTES**

**UTILITIES**

- ABOVE-GROUND UTILITY FACILITIES OR APPURTENANCES SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS TO PROVIDE A MINIMUM HORIZONTAL CLEARANCE OF 1.5 FEET, MEASURED FROM THE FACE OF CURB TO THE NEAR EDGE OF THE OBJECT.
- THE FOLLOWING UTILITY COMPANIES MAY HAVE FACILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION WHICH MAY REQUIRE ADJUSTMENT, RELOCATION OR REMOVAL. REFER TO THE "STATUS OF UTILITIES TO BE ADJUSTED" SPECIAL PROVISION FOR ADDITIONAL INFORMATION.

CHARTER COMMUNICATIONS (COMMUNICATIONS)  
210 WEST DIVISION STREET  
MARYVILLE, IL 62062  
CONTACT: GARY WARREN  
(618) 779-4179

CITY OF HIGHLAND (WATER, SEWER & ELECTRIC)  
2610 PLAZA DRIVE  
HIGHLAND, IL 62249  
CONTACT: GEORGE STRAM (ELECTRIC)  
(618) 654-7511  
CONTACT: RANDY RENDERER (WATER & SEWER)  
(618) 654-5416

AMEREN IP (GAS)  
2600 NORTH CENTER  
MARYVILLE, IL 62062  
CONTACT: JIM POTJE  
(618) 346-1209

FRONTIER COMMUNICATIONS (COMMUNICATIONS)  
801 WEST JACKSON  
ALTAMONT, IL 62411  
CONTACT: ROD ELLER  
(618) 483-6205

**GENERAL**

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL STAGE ALL WORK IN SUCH A WAY AS TO MAINTAIN INGRESS AND EGRESS TO ALL ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION. AGGREGATE FOR TEMPORARY ACCESS WILL BE MEASURED FOR PAYMENT AS SPECIFIED IN THE CONTRACT. THE COST OF ALL OTHER MATERIALS REQUIRED AND ALL OTHER LABOR NECESSARY TO COMPLY WITH THIS PROVISION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- THE CONTRACTOR SHALL CONFINE ALL OPERATIONS TO THE EASEMENT LIMITS LINE SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL FERTILIZE, SEED AND MULCH ALL EARTH SURFACES DISTURBED BY CONSTRUCTION. FERTILIZER, SEEDING AND MULCH WITHIN THE CONSTRUCTION LIMITS WILL BE PAID FOR AS PROVIDED IN THE CONTRACT. FERTILIZER, SEEDING AND MULCH OUTSIDE THESE LIMITS WILL NOT BE MEASURED FOR PAYMENT. SEE THE SEEDING SCHEDULE FOR ESTIMATED PLAN QUANTITIES.
- WHERE TREE REMOVAL CONFLICTS WITH EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CUT THE TREE OFF AT THE GROUND LINE AND GRIND THE STUMP AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS TREE REMOVAL ITEMS INCLUDED IN THE CONTRACT.

- THE CONTRACTOR SHALL TRIM OR REMOVAL ALL LIMBS AND BRUSH WITHIN 10 FEET, MEASURED VERTICALLY FROM THE TRAIL AND 5 FEET MEASURED HORIZONTALLY FROM THE EDGE OF THE TRAIL AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS TREE REMOVAL ITEMS INCLUDED IN THE CONTRACT.
- IF ASH TREES ARE TO BE REMOVED FROM THE PROJECT, THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS SPECIFIED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE (IDOA) TO PREVENT THE SPREAD OF THE EMERALD ASH BORER. IDOA INFORMATION REGARDING ASH TREE REMOVAL CAN BE FOUND ON THE IDOA WEBSITE AT [WWW.AGR.STATE.IL.US/EAB](http://WWW.AGR.STATE.IL.US/EAB).
- ALL EXISTING ROADWAY FEATURES (INCLUDING, BUT NOT LIMITED TO, PAVEMENT, CURB, SIDEWALK, DRIVEWAY PAVEMENT, CULVERTS, HEADWALLS, RIPRAP, FENCING, RETAINING WALLS, WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR UNLESS NOTED OTHERWISE ON THE PLANS. ALL FEATURES WHICH ARE TO BE REMOVED AND FOR WHICH THERE IS NO SPECIFIC PAY ITEM, WILL NOT BE MEASURED SEPARATELY FOR PAYMENT AND THE COST OF THIS REMOVAL WORK SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.

**EARTHWORK**

- THE CONTRACTOR SHALL BENCH THE PROPOSED EMBANKMENT INTO THE EXISTING SLOPES TO THE SATISFACTION OF THE ENGINEER. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.

**PAVING**

- HIGH EARLY STRENGTH CONCRETE MIX SHALL BE USED FOR THE CONSTRUCTION OF PCC ENTRANCES AND SIDE ROADS. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS PCC DRIVEWAY PAVEMENT ITEMS INCLUDED IN THE CONTRACT.
- AT VARIOUS LOCATIONS, IT MAY BE NECESSARY TO TRANSITION PROPOSED COMBINATION CONCRETE CURB AND GUTTER TO MEET EXISTING CURBS OR GUTTERS. THE MINIMUM LENGTH OF TRANSITIONAL COMBINATION CURB AND GUTTER SHALL BE 10 FEET, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

**DRAINAGE**

- STORM SEWER INVERTS SHOWN ON THE PLANS HAVE BEEN CALCULATED TO THE CENTER OF THE STRUCTURE. THE STORM SEWER SLOPES SHOWN ON THE PLANS ARE THE PERCENT GRADE FROM CENTER TO CENTER OF STRUCTURE. THE LENGTH OF STORM SEWERS SHOWN ON THE PLANS IS THE DISTANCE FROM CENTER TO CENTER OF STRUCTURE. STORM SEWER WILL BE MEASURED AND PAID FOR AS SPECIFIED IN ARTICLES 550.09 AND 550.10 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." FLARED END SECTIONS ARE LOCATED BY STATION, OFFSET AND FLOWLINE ELEVATION AT THE FLARED END OF THE FLARED END SECTION.
- STORM SEWERS AND CULVERTS MAY HAVE MINIMAL DEPTH BELOW THE MODIFIED SOIL LAYER. THE CONTRACTOR SHALL TAKE WHATEVER PRECAUTIONS ARE NECESSARY TO PROTECT THE PIPES FROM DAMAGE DURING THE SOIL MODIFICATION PROCESS. IN THE EVENT THAT PIPES ARE DAMAGED, THEY SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. ALL COSTS INCURRED TO REPAIR OR REPLACE DAMAGED PIPES SHALL BE AT THE CONTRACTOR'S EXPENSE.

- THE OFFSETS TO ALL INLETS AND MANHOLES ARE GIVEN TO THE CENTER OF THE OPENING AT THE BASE OF THE FRAME AND GRATE OR LID. CONCENTRIC DRAINAGE STRUCTURES WERE ASSUMED WHEN CALCULATING THESE DIMENSIONS.
- ALL TYPE 3 FRAMES AND GRATES SHALL BE FURNISHED BY THE CONTRACTOR WITH OPEN CURB BOXES. SEE HIGHWAY STANDARD 604006 AND THE SPECIAL PROVISIONS FOR DETAILS.
- ALL DRAINAGE STRUCTURES CONSTRUCTED, ADJUSTED OR RECONSTRUCTED UNDER THE CONTRACT, SHALL BE CLEANED OF ANY ACCUMULATION OF SILT, DEBRIS OR FOREIGN MATTER AT THE END OF EACH WORKING DAY AND AT THE TIME OF FINAL INSPECTION. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS DRAINAGE STRUCTURE ITEMS INCLUDED IN THE CONTRACT.

**PAVEMENT MARKING**

- THE PAVEMENT MARKING LOCATIONS SHOWN IN THE PLANS ARE APPROXIMATE. PROPOSED CROSSWALKS SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER, IF NECESSARY, TO MATCH FIELD CONDITIONS.

**APPROXIMATE QUANTITIES, SYMBOLS & ABBREVIATIONS**

- THE FOLLOWING ITEMS AND APPROXIMATE QUANTITIES ARE INCLUDED IN THE "SUMMARY OF QUANTITIES" IN ORDER TO ESTABLISH A UNIT COST FOR WORK WHICH MAY BE REQUIRED TO CONSTRUCT THIS SECTION. THE ACTUAL QUANTITY OF EACH ITEM SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

AGGREGATE FOR TEMPORARY ACCESS 100 TON  
SUBBASE GRANULAR MATERIAL, TYPE A 250 TON

- THE FOLLOWING SYMBOLS, ABBREVIATIONS AND PATTERNS SUPPLEMENT OR SUPERCEDE HIGHWAY STANDARD 000001:



FLARED END SECTION

- BO BY OTHERS (USED IN CONJUNCTION WITH T&A & T&R)
- CONSTR CONSTRUCTION
- CP CONTROL POINT
- ESMT EASEMENT
- ELEV ELEVATION
- K LENGTH OF VERTICAL CURVE PER PERCENT GRADE DIFFERENCE
- N/F NOW OR FORMERLY
- O/C OIL AND CHIP
- PERM PERMANENT
- PVI POINT OF VERTICAL INTERSECTION
- PVC POLYVINYL CHLORIDE PIPE
- TCE TEMPORARY CONSTRUCTION EASEMENT
- TUP TEMPORARY USE PERMIT
- T&A TO BE ADJUSTED
- T&RL TO BE RELOCATED
- TYP TYPICAL
- W WIDTH

**COMMITMENTS**

- THE CONTRACTOR SHALL CONTACT THE HIGHLAND SCHOOL DISTRICT, HIGHLAND EMS, AND POST OFFICE ONE WEEK PRIOR TO ANY ROAD CLOSURES.

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 <b>DATES ASSOCIATES</b> <small>Engineering + Architecture</small> ILLINOIS DESIGN FIRM LICENSE NO. 181.001115	USER NAME: andymueller	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES, UTILITIES, &amp; COMMITMENTS</b>	F.A.U. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE: 40.0000' = 1" = 1/4"	CHECKED -	REVISED -			8854	14-00068-00-BT	MADISON	61	2
PLOT DATE: 5/10/2016	DATE -	REVISED -		SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.	SHARPSHOOTERS DIAE TRAIL CONST. CONTRACT NO. 97627 HIGHLAND ILLINOIS FED. AID PROJECT					

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	78
		20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	270
		20100500	TREE REMOVAL, ACRES	ACRE	0.25
		20200100	EARTH EXCAVATION	CU YD	740
		20300100	CHANNEL EXCAVATION	CU YD	85
		20400800	FURNISHED EXCAVATION	CU YD	590
	*	20700220	POROUS GRANULAR EMBANKMENT	CU YD	222
	*	20800150	TRENCH BACKFILL	CU YD	152
	*	21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	5,875
		25100635	HEAVY DUTY EROSION CONTROL BLANKET	SO YD	1,001
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	300
	*	28000305	TEMPORARY DITCH CHECKS	FOOT	80
		28000400	PERIMETER EROSION BARRIER	FOOT	2,905
		28000500	INLET AND PIPE PROTECTION	EACH	11

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		28000510	INLET FILTERS	EACH	11
		28100107	STONE RIPRAP, CLASS A4	SO YD	599
		28200200	FILTER FABRIC	SO YD	599
	*	30200650	PROCESSING MODIFIED SOIL 12"	SO YD	3,163
		30201700	PORTLAND CEMENT	TON	76
	*	31100100	SUBBASE GRANULAR MATERIAL, TYPE A	TON	250
		31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SO YD	1,081
		31100500	SUBBASE GRANULAR MATERIAL, TYPE A 6"	SO YD	3,145
		31100800	SUBBASE GRANULAR MATERIAL, TYPE A 9"	SO YD	187
		40200700	AGGREGATE SURFACE COURSE, TYPE A 8"	SO YD	52
		40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	100
	*	40701841	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8"	SO YD	122
	*	42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SO YD	394
		42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SO FT	1,259

NOTES: SP - SEE PROJECT SPECIFIC SPECIAL PROVISIONS  
SI - SPECIALTY ITEM

FILE NAME: H:\P14822\Information\CADD\_Sheets\082-Sht-500.dgn



USER NAME: andymueller	DESIGNED -	REVISED -
PLOT SCALE: 1/8" = 1'-0"	DRAWN -	REVISED -
PLOT DATE: 5/12/2016	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	3
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
ILLINOIS FED. AID PROJECT				

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		42400800	DETECTABLE WARNINGS	SQ FT	136
		44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	180
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	117
		44000600	SIDEWALK REMOVAL	SQ FT	553
		50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
		50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1
		50200100	STRUCTURE EXCAVATION	CU YD	580
		50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	47
		50300225	CONCRETE STRUCTURES	CU YD	50.6
		50300254	RUBBED FINISH	SQ FT	353
		50300285	FORM LINER TEXTURED SURFACE	SQ FT	1,134
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	32,540
		54003000	CONCRETE BOX CULVERTS	CU YD	130
		54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	3

SI	SP	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
		54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1
		54213693	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 48"	EACH	2
		542A0253	PIPE CULVERTS, CLASS A, TYPE 1 48"	FOOT	40
		550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	210
		550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	332
		550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	289
		60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	1
		60240328	INLETS, TYPE B, TYPE 24 FRAME AND GRATE	EACH	5
		60218500	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1
		60255500	MANHOLES TO BE ADJUSTED	EACH	1
		60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1,129
		63200310	GUARDRAIL REMOVAL	FOOT	166
		67100100	MOBILIZATION	LSUM	1
		72000100	SIGN PANEL - TYPE 1	SQ FT	166.6

NOTES: SP - SEE PROJECT SPECIFIC SPECIAL PROVISIONS  
SI - SPECIALTY ITEM

FILE NAME: H:\P1\B2\Hfr-station\CAD Sheets\B1-BB2-5h-1-SD0.dgn



USER NAME: andy.mueller	DESIGNED: -	REVISED: -
PLOT SCALE: 1/8" = 1'-0"	DRAWN: -	REVISED: -
PLOT DATE: 5/12/2016	CHECKED: -	REVISED: -
	DATE: -	REVISED: -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B854	14-00068-00-BT	MADISON	61	4
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
ILLINOIS FED. AID PROJECT				

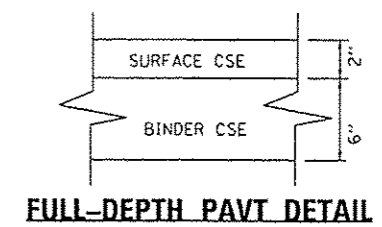


**TYPICAL SECTION LEGEND**

- ① EXISTING AGG BASE WITH BIT. SURFACE TREATMENT
- ② PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A 4"
- ③ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A 9"
- ④ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A (VARIABLE DEPTH)
- ⑤ PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- ⑥ PROPOSED PORTLAND CEMENT MODIFIED SOIL 12"
- ⑦ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A 6"
- ⑧ PROPOSED HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 8"
- ⑨ PROPOSED HOT-MIX ASPHALT SURFACE COURSE SPECIAL 3"
- ⑩ PROPOSED TOPSOIL FURNISH AND PLACE 4"
- ⑪ PROPOSED BITUMINOUS SURFACE TREATMENT, CLASS A-3
- ⑫ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- ⑬ PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK 6"

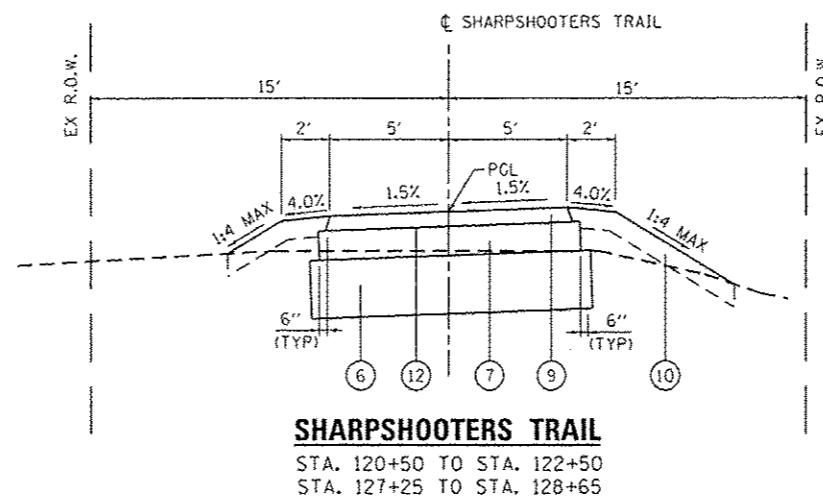
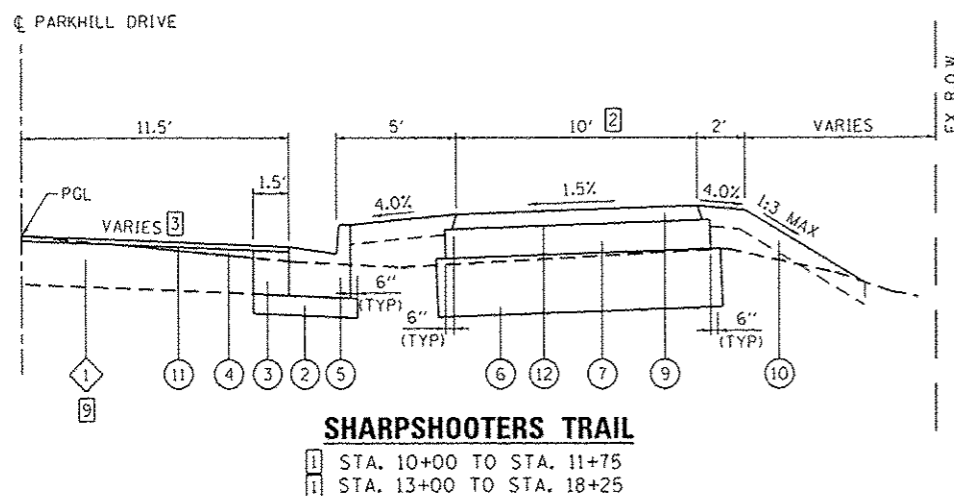
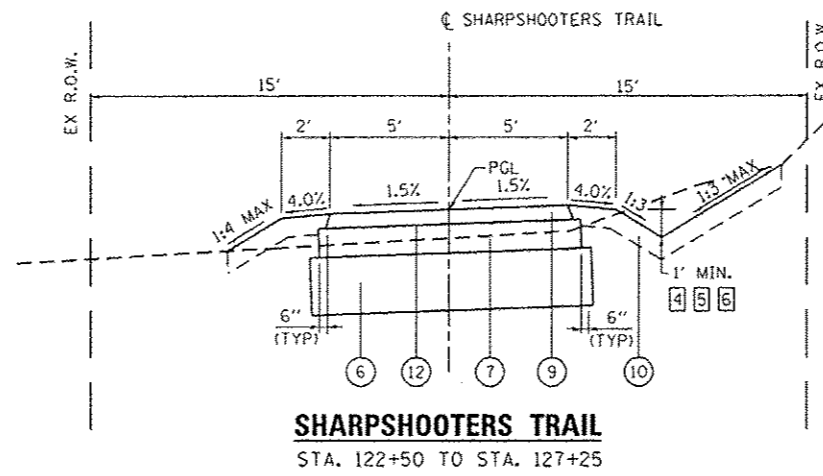
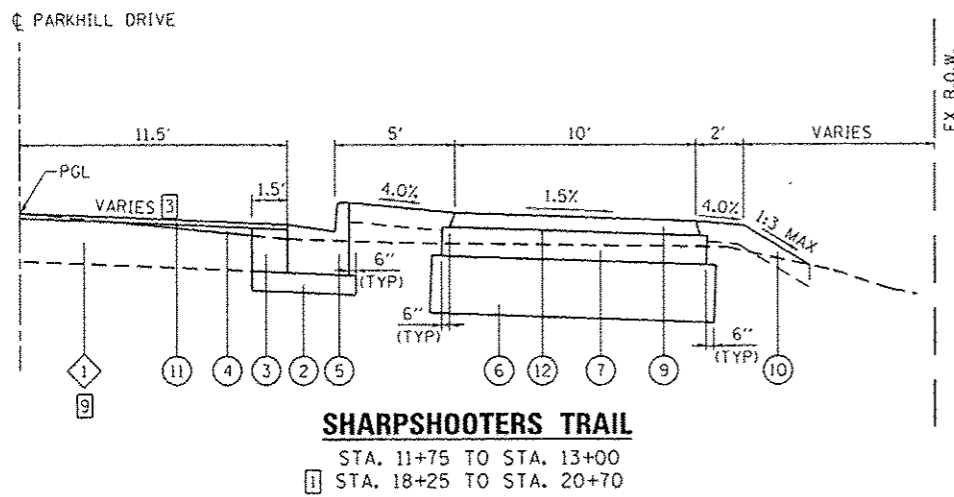
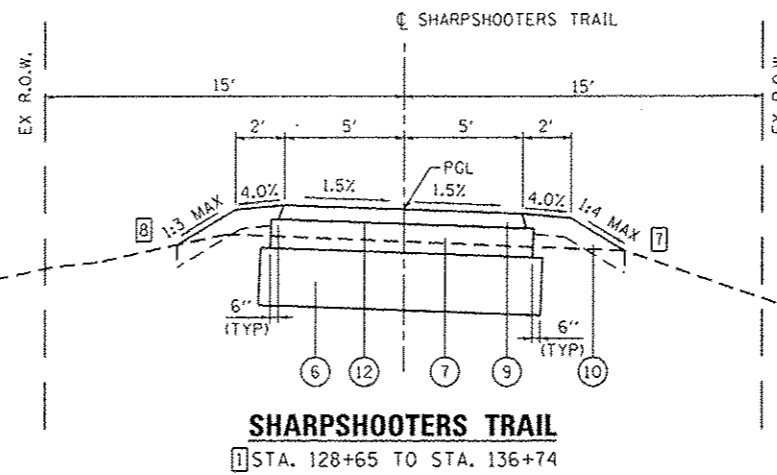
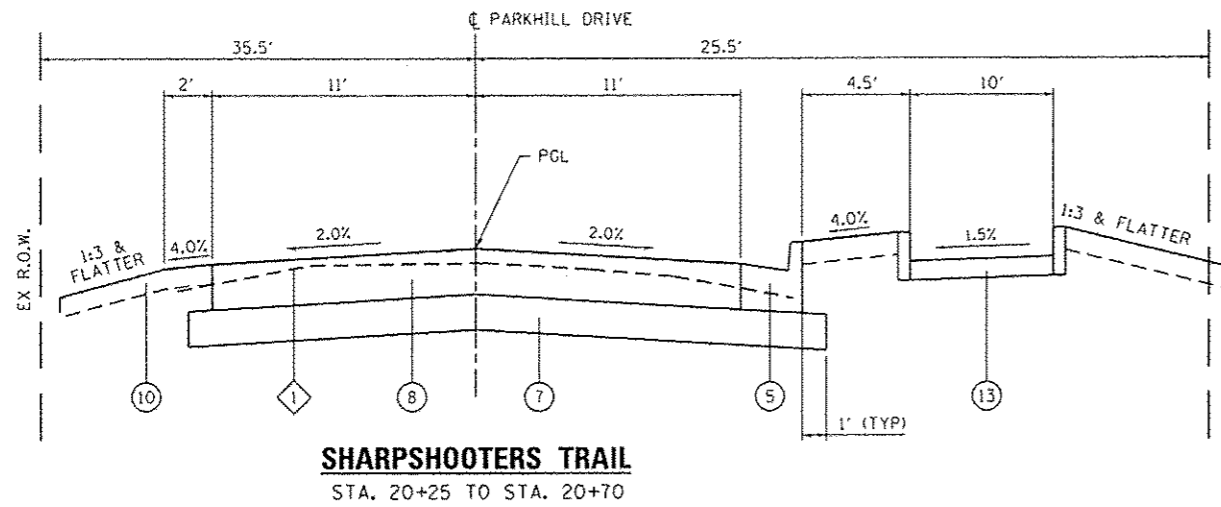
**TYPICAL SECTION NOTES**

- ① TRANSITION CROSS SLOPE OVER 50'  
STA. 11+25 TO STA. 11+75  
STA. 13+00 TO STA. 13+50  
STA. 18+25 TO STA. 18+75  
STA. 128+65 TO STA. 129+15
- ② TRANSITION FROM 6" TO 10" OVER 50' (SEE PLAN SHEETS)
- ③ CROSS SLOPE VARIES FROM 0.5% TO 2.0%
- ④ STA. 122+50 TO STA. 124+75 1' DEEP DITCH
- ⑤ STA. 124+75 TO STA. 125+25 SPECIAL DITCH (SEE PLAN SHEETS)
- ⑥ STA. 125+75 TO STA. 126+50 1' DEEP DITCH
- ⑦ STA. 127+75 TO STA. 129+25 SPECIAL DITCH (SEE PLAN SHEETS)
- ⑧ STA. 130+75 TO STA. 135+75 SPECIAL DITCH (SEE PLAN SHEETS)
- ⑨ EXISTING PAVEMENT SHALL BE SCARIFIED, RESHAPED, AND COMPACTED IN AREAS THAT PROPOSED GRANULAR MATERIAL, TYPE A VARIABLE DEPTH IS TO BE PLACED.



**MIXTURES TABLE**

MIXTURE USE	SURFACE CSE SPECIAL	SURFACE CSE	BINDER CSE
THICKNESS	3"	2"	6"
AC/PG	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE BDE SPECIAL PROVISION	SEE BDE SPECIAL PROVISION	SEE BDE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=50	4.0% @ Ndes=50	4.0% @ Ndes=50
MIX COMPOSITION	IL-9.5 or IL-12.5	IL-9.5 or IL-12.5	IL-19.0 or IL-25.0
FRICTION AGG	MIXTURE "C"	MIXTURE "C"	MIXTURE "B"



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**ENTRANCE**

STATION (NOTE 1)	OFFSET	ENTRANCE TYPE	ENTRANCE MATL	ENTRANCE WIDTH "W" (NOTE 1) (FOOT)	ENTRANCE DEPTH "D" (FOOT)	SUB GRAN MAT A 4 (SQ YD)	SUB GRAN MAT A 6 (SQ YD)	AGG SURF CSE A 8 (SQ YD)	HMA SC SPECIAL (NOTE 3&4) (SQ YD)	PCC DRIVEWAY PAVT 7 (NOTE 2) (SQ YD)	DRIVEWAY PAVEMENT REM (SQ YD)
12+26	RT	CE	HMA	24	16	72	53		53	72	80
13+28	RT	CE	HMA	20	20	53	39		39	53	100
13+45	RT	CE	AGG	20.5	5	53		11		53	
14+16	RT	PE	AGG	15.5	17.5	72		41		73	
17+70	RT	PE	EARTH	24	14	72				72	
19+98	RT	PE	CONC	12	17.5	71				71	
<b>TOTAL</b>						<b>393</b>	<b>92</b>	<b>52</b>	<b>92</b>	<b>394</b>	<b>180</b>

**ENTRANCE NOTES:**

- PRIOR TO CONSTRUCTION, THE ENGINEER WILL CONTACT EACH PROPERTY OWNER AND VERIFY THE LOCATION AND WIDTH OF ALL ENTRANCES. THE CONTRACTOR SHALL CONFIRM THE FINAL LOCATIONS AND WIDTHS WITH THE ENGINEER PRIOR TO CONSTRUCTION. SEE CONSTRUCTION DETAILS SHEET FOR ENTRANCE DETAILS.
- DEPRESSED CURB AND GUTTER THROUGH ENTRANCES SHALL BE MEASURED FOR PAYMENT AS COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24.
- APPLICATION RATES USED FOR QUANTITY ESTIMATES ARE AS FOLLOWS:  
 BIT MATERIALS (PRIME COAT) 0.25 LBS/SF OVER AGGREGATE  
 HMA PAVEMENT 112 LBS / SY / INCH THICKNESS
- BITUMINOUS MATERIALS PRIME COAT SHALL BE INCLUDED IN THE COST FOR HMA SURFACE COURSE SPECIAL

**EARTHWORK**

STATION	STATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (NOTE 1) (CU YD)	EMBANKMENT (NOTE 2) (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (NOTE 3) (CU YD)
10+00	18+50	289	217	277	-60
18+50	21+00	31	24	261	-238
20+25	20+75	43	32	0	32
120+50	128+50	76	57	375	-317
128+50	136+75	301	226	232	-6
<b>TOTAL</b>		<b>740</b>	<b>555</b>	<b>1,145</b>	<b>-590</b>

**EARTHWORK NOTES:**

- ESTIMATED SHRINKAGE FACTOR = 25%.
- APPROXIMATE EMBANKMENT QUANTITY IS SHOWN FOR INFORMATION ONLY.
- APPROXIMATE EARTHWORK BALANCE IS SHOWN FOR INFORMATION ONLY.

**SEEDING**

STATION	STATION	OFFSET	SEEDING CL 1 SP (ACRE)	NITROGEN FERT NUTR (NOTE 1) (POUND)	PHOSPHORUS FERT NUTR (NOTE 1) (POUND)	POTASSIUM FERT NUTR (NOTE 1) (POUND)	MULCH METHOD 2 (NOTE 1) (ACRE)	TEMP EROS CONTR SEED (NOTE 2) (POUND)	TOP SOIL FURN PL 4 (SY YD)
10+00	20+50	RT	0.4	36	36	36	0.8	80	1925
120+50	129+30	RT	0.2	18	18	18	0.4	40	803
120+50	129+30	LT	0.3	27	27	27	0.6	60	1265
129+30	135+90	RT	0.2	18	18	18	0.4	40	888
129+30	135+90	LT	0.2	18	18	18	0.4	40	802
135+90	136+74	RT	0.1	9	9	9	0.2	20	63
135+90	136+74	LT	0.1	9	9	9	0.2	20	129
<b>TOTAL</b>			<b>1.5</b>	<b>135</b>	<b>135</b>	<b>135</b>	<b>3.0</b>	<b>300</b>	<b>5,875</b>

**SEEDING NOTES:**

- FERTILIZER AND MULCH QUANTITIES ARE SHOWN FOR INFORMATION ONLY. THE COST FOR FERTILIZER NUTRIENTS AND MULCH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR SEEDING, CLASS 1 SPECIAL.
- THE QUANTITY FOR TEMPORARY EROSION CONTROL SEEDING ASSUMES 2 SEPARATE APPLICATIONS AT A RATE OF 100 POUNDS/ACRE PER APPLICATION. THE CONTRACTOR SHALL APPLY AS NECESSARY AND AS DIRECTED BY THE ENGINEER.

**EROSION CONTROL**

STATION	STATION	OFFSET	HEAVY DUTY EROSION CONTR BLANKET (SY YD)	TEMP DITCH CHECKS (FOOT)	PERIMETER EROS BAR (FOOT)	INLET & PIPE PROTECTION (EACH)	INLET FILTERS (EACH)
10+20	14+75	RT			353	2	2
17+00	20+82	RT	437		275	6	6
120+61	122+50	RT			195		
120+68	129+00	LT			885		
122+50	129+00	RT	332	40	152	1	1
129+75	136+57	RT			615		
130+25	135+77	LT	232	40	430	2	2
<b>TOTAL</b>			<b>1,001</b>	<b>80</b>	<b>2,905</b>	<b>11</b>	<b>11</b>

**EROSION CONTROL NOTES:**

- THE QUANTITY FOR TEMPORARY EROSION CONTROL SEEDING ASSUMES TWO SEPARATE APPLICATIONS AT A RATE OF 100 POUNDS/ACRE PER APPLICATION. THE CONTRACTOR SHALL APPLY AS NECESSARY AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

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	DRAWN: -	REVISED: -
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PLOT DATE: 5/12/2016	DATE: -	REVISED: -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULES</b>	
SCALE: NTS	SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.U. R.T.E. 8854	SECTION 14-00068-00-BT	COUNTY MADISON	TOTAL SHEETS 61	SHEET NO. 7
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
ILLINOIS FED. AID PROJECT				





**SIGN**

STATION	OFFSET		TYPE	DESCRIPTION	SIZE (IN X IN)	SIGN PANEL	METAL POST	NOTES
						T1 (SQ FT)	TY B (NOTE 1) (FOOT)	
9+45	32	RT	R1-3P	ALL WAY	18 X 6	0.8		
10+16	35	RT	R1-1	STOP SIGN	30 X 30	6.3	14	
			R1-3P	ALL WAY	18 X 6	0.8		
10+58	21	LT	R1-1	STOP SIGN	30 X 30	6.3	14	
			R1-3P	ALL WAY	18 X 6	0.8		
10+77	19	RT	D11-1	BIKE ROUTE	24 X 18	3.0	13	
			M4-12	ENDS	12 X 6	0.5		
13+00	31.5	RT	W7-5	HILL	18 X 18	2.3	13	
18+50	16.3	RT	W11-15	COMBINATION CROSSING	30 X 30	6.3	17	
			W11-15P	TRAIL CROSSING	24 X 18	3.0		
			W16-9P	AHEAD	24 X 12	2.0		
20+43	15.5	RT	R1-5	YIELD FOR PEDESTRIANS	36 X 36			SOLAR POWERED FLASHING BEACON ASSEMBLY (COMPLERTE)
			R10-25	PUSH BUTTON	9 X 12			
20+57	15.5	RT	R1-1	STOP SIGN	18 X 18	2.3	13.5	
			W4-4P	X-TRAFFIC DOES NOT STOP	18 X 9	1.2		
20+55	15.5	LT	R1-5	YIELD FOR PEDESTRIANS	36 X 36			SOLAR POWERED FLASHING BEACON ASSEMBLY (COMPLERTE)
			R10-25	PUSH BUTTON	9 X 12			
22+50	15.5	LT	W11-15	COMBINATION CROSSING	30 X 30	6.3	17	
			W11-15P	TRAIL CROSSING	24 X 18	3.0		
			W16-9P	AHEAD	24 X 12	2.0		
120+68	8.5	LT	R1-1	STOP SIGN	18 X 18	2.3	13.5	
			W4-4P	X-TRAFFIC DOES NOT STOP	18 X 9	1.2		
121+00	8.5	RT		FLOOD WARNING	24 X 24	4.0	16	IMPASSABLE DURING HIGH WATER
			R5-3	NO MOTOR VEHICLES	24 X 24	4.0		
135+20	8.5	RT	W1-1R	CURVE WARNING	18 X 18	2.3	13	
135+74	8.5	LT	W1-1L	CURVE WARNING	18 X 18	2.3	13	
136+06	8.5	RT	W1-1R	CURVE WARNING	18 X 18	2.3	13	
136+46	8.5	LT	W1-1L	CURVE WARNING	18 X 18	2.3	13	
136+57	8.5	LT		FLOOD WARNING	24 X 24	4.0	16	IMPASSABLE DURING HIGH WATER
			R3-5	NO MOTOR VEHICLES	24 X 24	4.0		
	23	RT	W11-1	BICYCLE WARNING	30 X 30	6.3	16.5	
			W16-1	SHARE THE ROAD	18 X 24	3.0		
	23	RT	W11-1	BICYCLE WARNING	30 X 30	6.3	16.5	
			W16-1	SHARE THE ROAD	18 X 24	3.0		
	23	RT	W11-1	BICYCLE WARNING	30 X 30	6.3	16.5	
			W16-1	SHARE THE ROAD	18 X 24	3.0		
	23	LT	W11-1	BICYCLE WARNING	30 X 30	6.3	16.5	
			W16-1	SHARE THE ROAD	18 X 24	3.0		
	23	RT	W11-1	BICYCLE WARNING	30 X 30	6.3	16.5	
			W16-1	SHARE THE ROAD	18 X 24	3.0		
	23	LT	W11-1	BICYCLE WARNING	30 X 30	6.3	16.5	
			W16-1	SHARE THE ROAD	18 X 24	3.0		
	23	RT	W11-1	BICYCLE WARNING	30 X 30	6.3	15.5	SEE SHEET 15 FOR PLACEMENT ALONG COVENTRY WAY AND IBERG ROAD
			W16-9P	AHEAD	24 X 12	2.0		
	23	RT	R1-5	YIELD FOR PEDESTRIANS	36 X 36			SOLAR POWERED FLASHING BEACON ASSEMBLY (COMPLERTE)
			R10-25	PUSH BUTTON	9 X 12			
	23	RT	R1-5	YIELD FOR PEDESTRIANS	36 X 36			SOLAR POWERED FLASHING BEACON ASSEMBLY (COMPLERTE)
			R10-25	PUSH BUTTON	9 X 12			
	23	LT	W11-1	BICYCLE WARNING	30 X 30	6.3	15.5	SEE SHEET 15 FOR PLACEMENT ALONG COVENTRY WAY AND IBERG ROAD
			W16-9P	AHEAD	24 X 12	2.0		
<b>TOTAL:</b>						166.6	362	

**SIGN NOTES:**

- SEE SPECIAL PROVISION "EXPANSION JOINTS" FOR PLACEMENT IN PCC SIDEWALK.
- SEE CONSTRUCTION DETAILS FOR "IMPASSABLE DURING HIGH WATER" SIGN.

**PAVEMENT MARKING**

STATION	STATION	OFFSET	COMMENT	PAINT PVT	PAINT PVT	PAINT PVT
				MK LINE 4 (NOTE 1 & 2) (FOOT)	MK LINE 12 (NOTE 1) (FOOT)	MK LINE 24 (NOTE 1) (FOOT)
<b>ROADWAY MARKING</b>						
LINDENTHAL AVE		RT	XWALK & STOP BAR		90	24
PARKHILL STA. 10+25		RT/LT	XWALK & STOP BAR		66	16
PARKHILL STA. 20+50		RT/LT	XWALK		44	
IBERG & COVENTRY		RT/LT	XWALK		102	
<b>SHARPSHOOTERS BIKE TRAIL MARKINGS</b>						
10+38	10+88	CL	SOLID YELLOW	50		
10+88	19+95	CL	SKIP DASH YELLOW	189		
19+95	20+50	CL	SOLID YELLOW	63		
120+65	121+25	CL	SOLID YELLOW & DIAMOND	70		
121+25	134+50	CL	SKIP DASH YELLOW	332		
134+50	136+68	CL	SOLID YELLOW & DIAMOND	230		
<b>TOTAL</b>				934	302	40

**PAVEMENT MARKING NOTES:**

- SEE HIGHWAY STANDARD 780001 FOR PAVEMENT MARKING DETAILS.
- 4" DOUBLE YELLOW MARKING

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	DATE: -	REVISED: -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	9
SHARPSHOOTERS BIKE TRAIL CONST.		CONTRACT NO. 97627		
ILLINOIS FED. AID PROJECT				

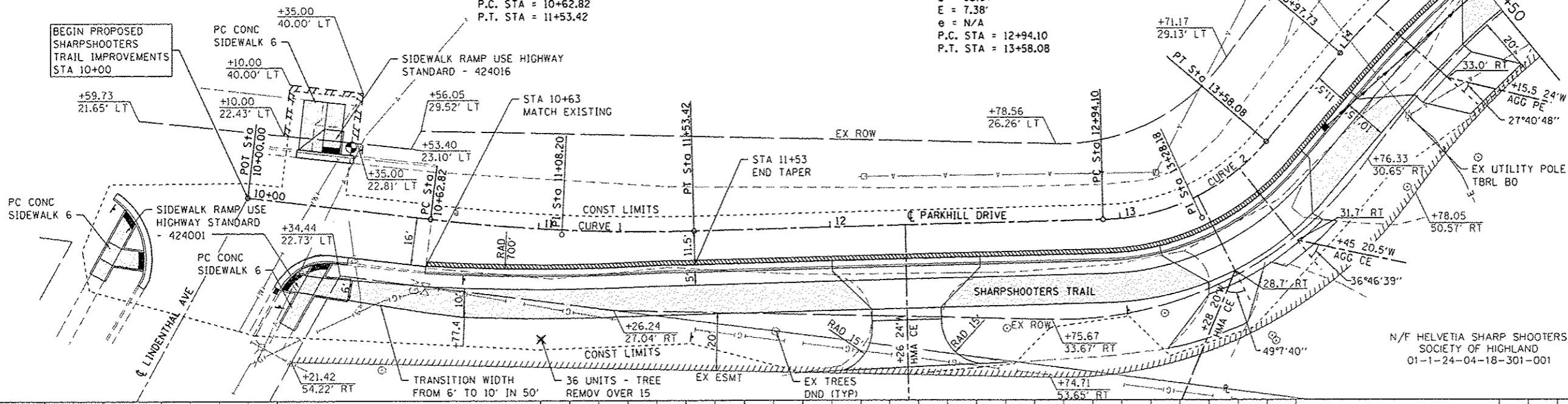
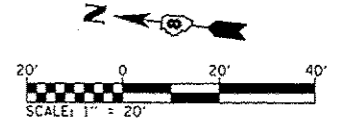
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**PROP CURVE 1**  
 PI STA. = 11+08.20  
 $\Delta = 8^\circ 18' 20''$  (LT)  
 $D = 9^\circ 10' 02''$   
 $R = 625.00'$   
 $T = 45.38'$   
 $L = 90.60'$   
 $E = 1.65'$   
 $\theta = N/A$   
 P.C. STA = 10+62.82  
 P.T. STA = 11+53.42

N/F HELVETIA SHARP SHOOTERS  
 SOCIETY OF HIGHLAND  
 01-1-24-04-18-301-001

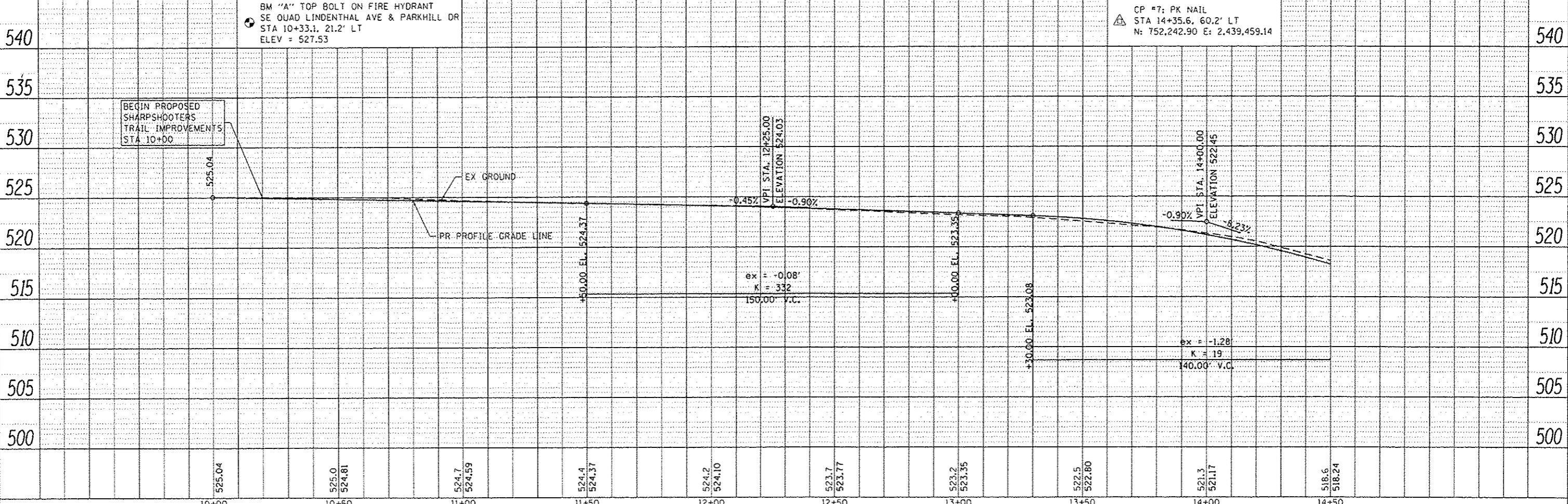
**PROP CURVE 2**  
 PI STA. = 13+28.18  
 $\Delta = 48^\circ 52' 20''$  (LT)  
 $D = 76^\circ 23' 40''$   
 $R = 75.00'$   
 $T = 34.08'$   
 $L = 63.97'$   
 $E = 7.38'$   
 $\theta = N/A$   
 P.C. STA = 12+94.10  
 P.T. STA = 13+58.08



**PLAN LEGEND**

- PAVEMENT WIDENING
- PROPOSED BIKE TRAIL

N/F HELVETIA SHARP SHOOTERS  
 SOCIETY OF HIGHLAND  
 01-1-24-04-18-301-001



10+00	10+50	11+00	11+50	12+00	12+50	13+00	13+50	14+00	14+50
525.04	525.0	524.7	524.4	524.2	523.7	523.2	522.5	521.3	518.6
	524.81	524.59	524.37	524.10	523.77	523.35	522.80	521.17	518.24

**DATES ASSOCIATES**  
 Engineering + Architecture  
 ILLINOIS DESIGN FIRM LICENSE NO: 184,001115

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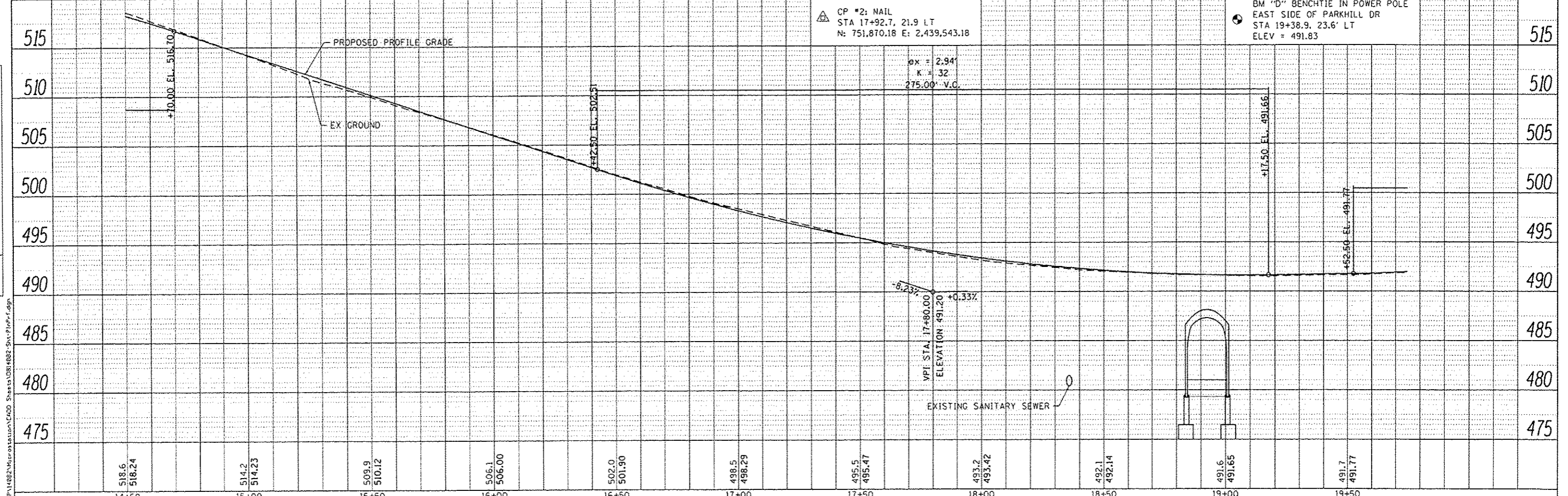
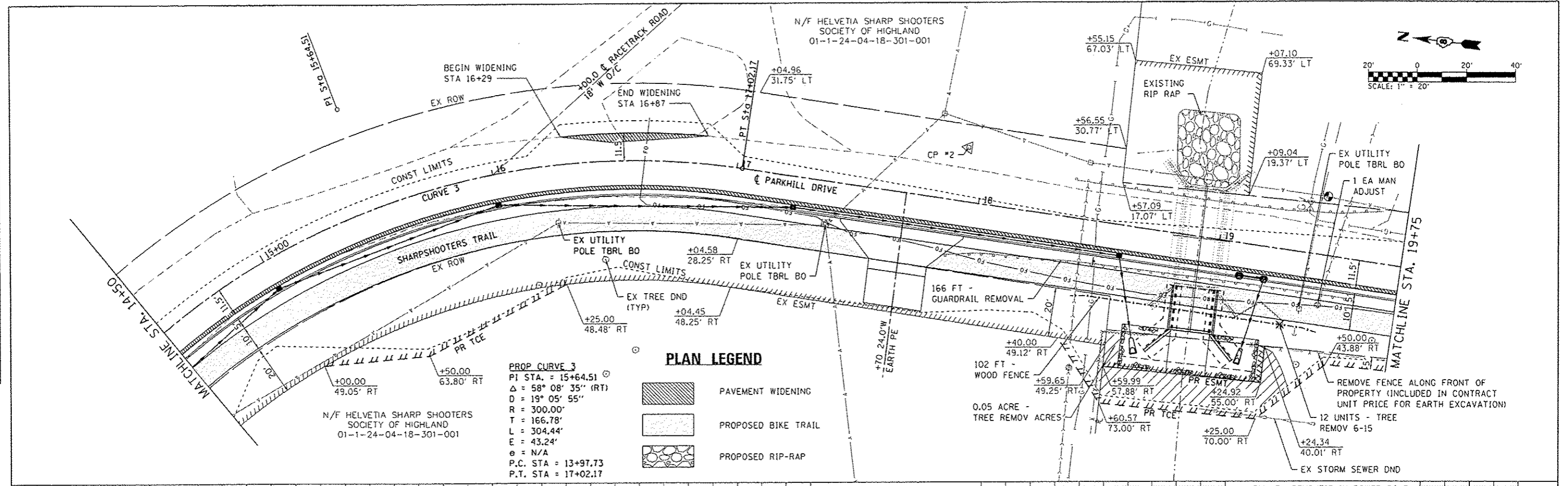
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PLAN & PROFILE SHEETS**  
 SCALE: 1" = 20' SHEET 1 OF 5 SHEETS STA. 10+00 TO STA. 14+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	10
SHARPshooters BIKE TRAIL CONST.			CONTRACT NO. 97627	
HIGHLAND			ILLINOIS FED. AID PROJECT	

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14+50	518.6 518.24	15+00	514.2 514.23	15+50	509.9 510.12	16+00	506.1 506.00	16+50	502.0 501.90	17+00	498.5 498.29	17+50	495.5 495.47	18+00	493.2 493.42	18+50	492.1 492.14	19+00	491.6 491.65	19+50	491.7 491.77
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**DATES ASSOCIATES**  
 Engineering + Architecture  
 ILLINOIS DESIGN FIRM LICENSE NO. 184.001115

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PLAN & PROFILE SHEETS**  
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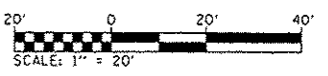
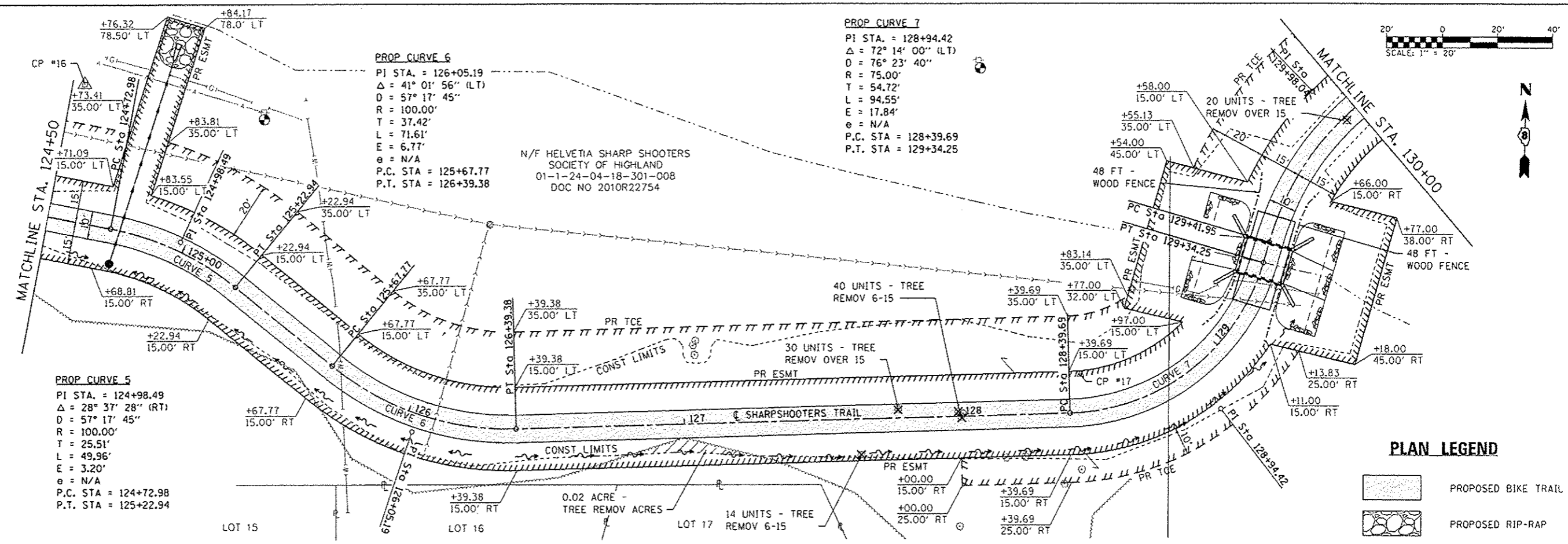
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SHARPSHOOTERS BIKE TRAIL CONST.		CONTRACT NO. 97627		
HIGHLAND		ILLINOIS FED. AID PROJECT		



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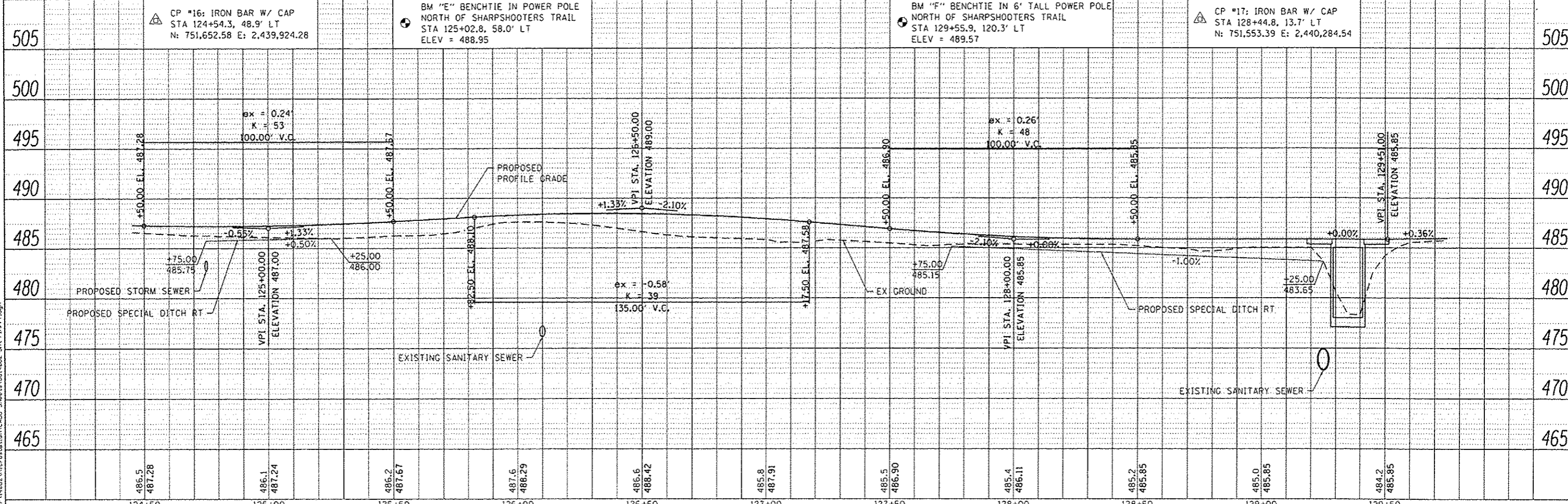
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**PLAN LEGEND**

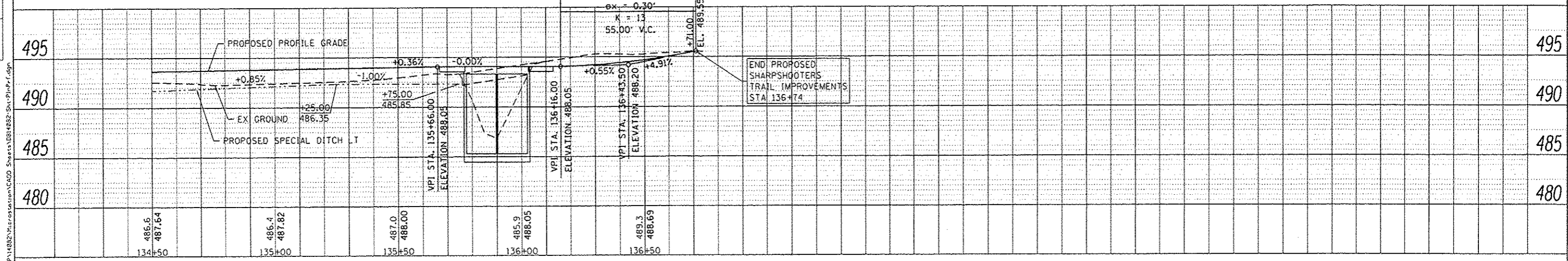
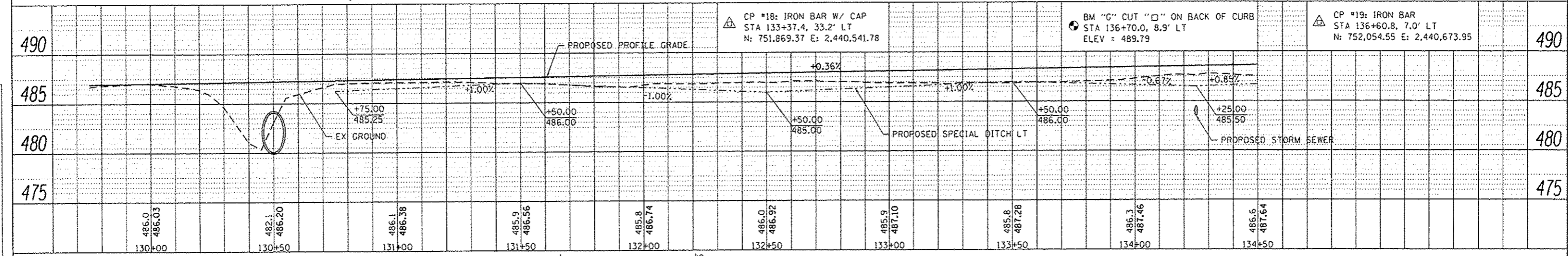
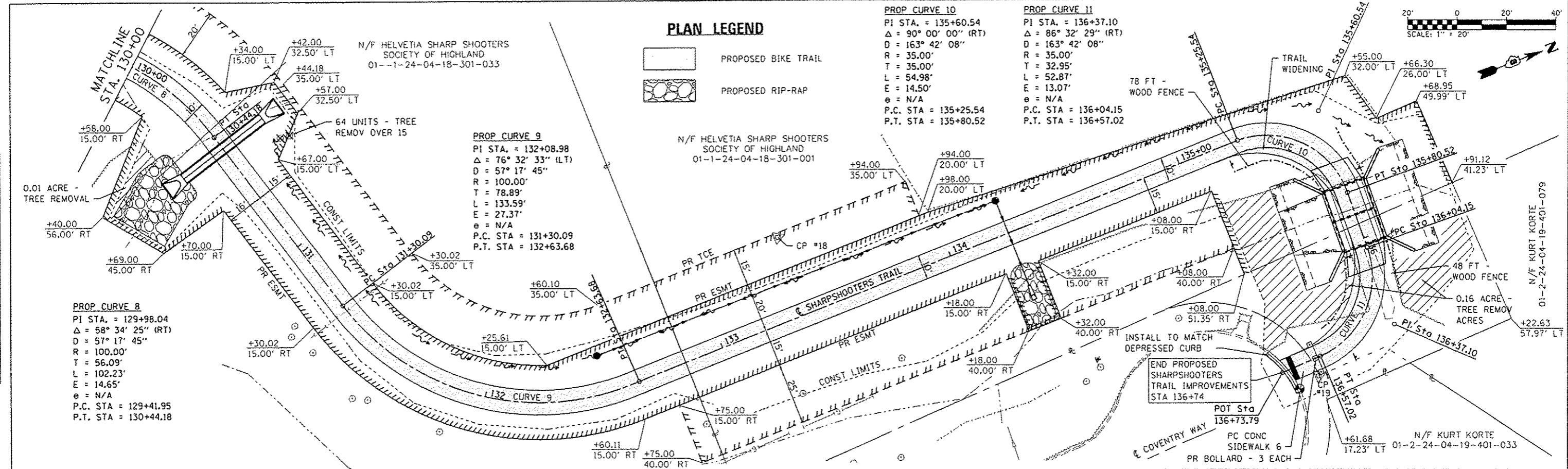
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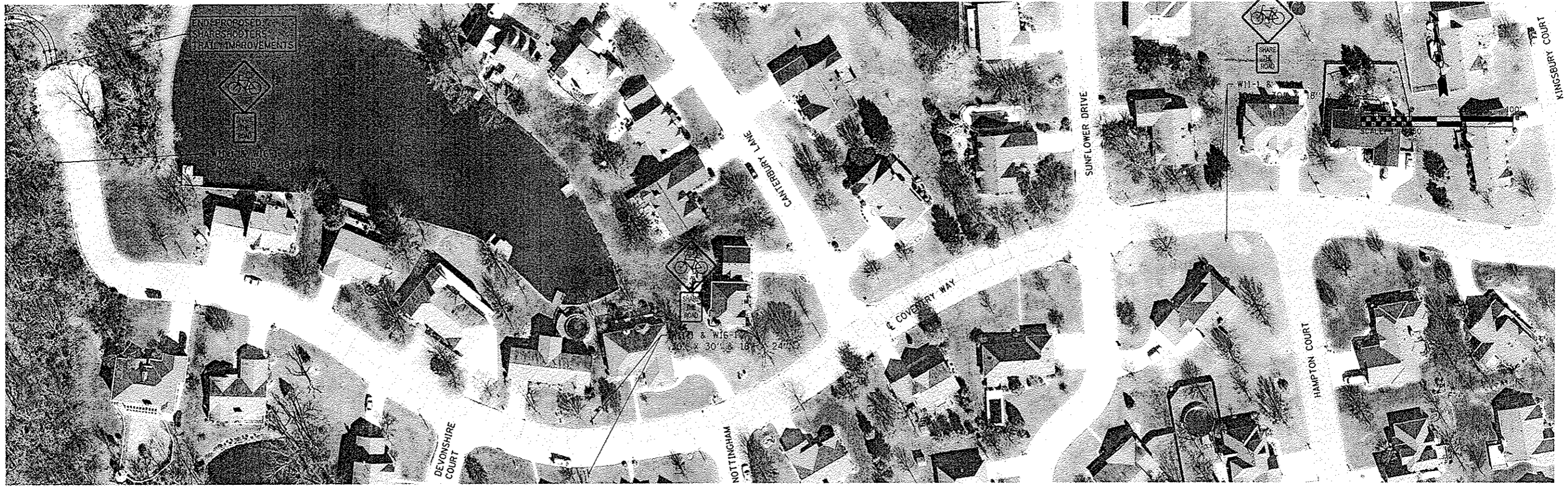
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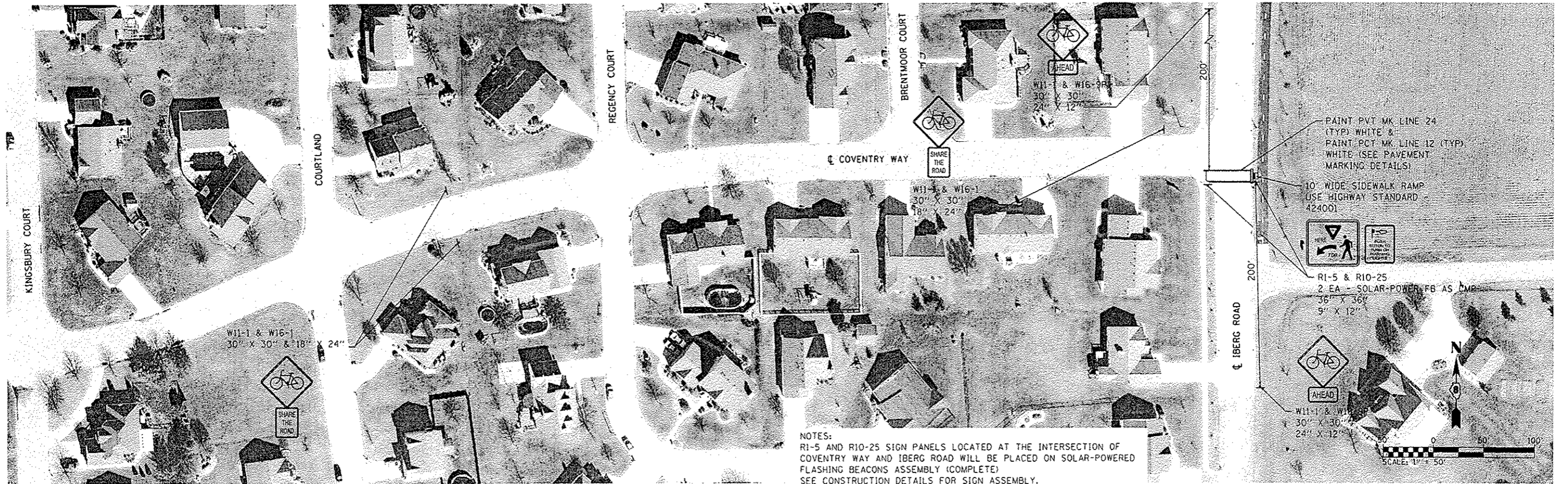
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NOTE BOOK	
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PROFILE	DATE
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NOTE BOOK	
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NOTES:  
 RI-5 AND RI-25 SIGN PANELS LOCATED AT THE INTERSECTION OF  
 COVENTRY WAY AND IBERG ROAD WILL BE PLACED ON SOLAR-POWERED  
 FLASHING BEACONS ASSEMBLY (COMPLETE)  
 SEE CONSTRUCTION DETAILS FOR SIGN ASSEMBLY.

DAYES ASSOCIATES  
 Engineering + Architecture  
 ILLINOIS DESIGN FIRM LICENSE NO. 184.001115

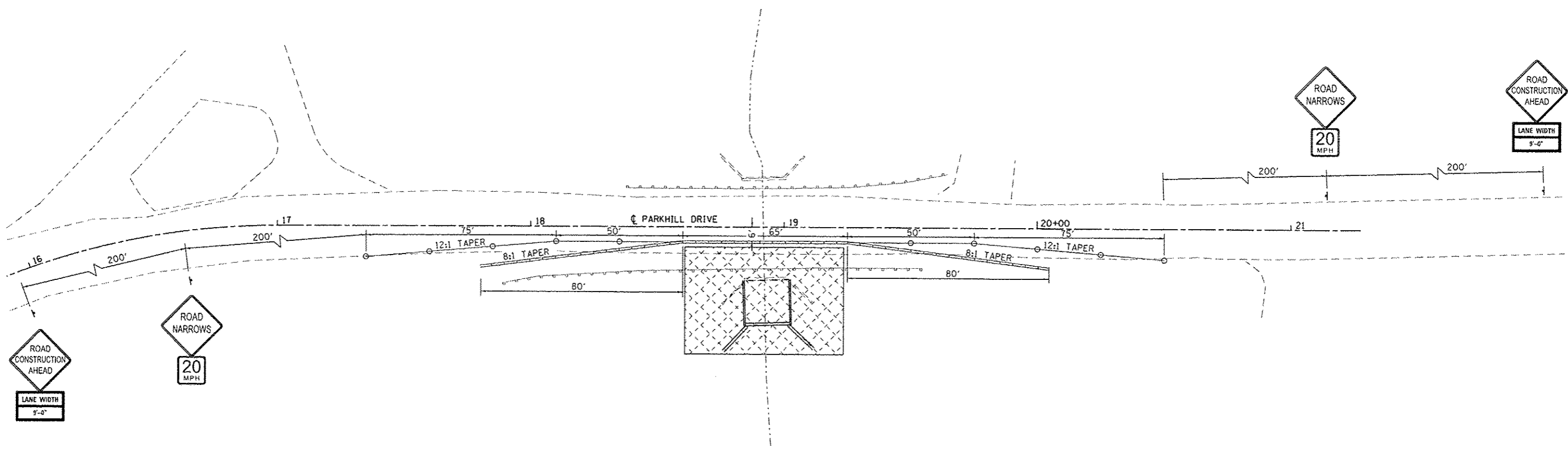
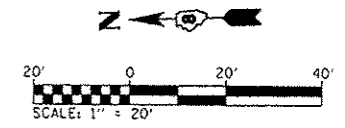
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION









COVENTRY WAY  
 PLAN SHEETS

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


F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B854	14-00068-00-BT	MADISON	61	15
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
HIGHWAY			ILLINOIS FED. AID PROJECT	



**TRAFFIC CONTROL PLAN LEGEND**

- 
W20-10 (48" x 48")  
(FLUORESCENT ORANGE)
- 
W5-1 (48" x 48")  
(FLUORESCENT ORANGE)
- 
SPECIAL (24" x 18")  
(WHITE WITH BLACK LETTERS)
- 
W13-1 (18" x 18")
- 
TRAFFIC CONTROL SIGN LOCATION
- 
DRUM WITH STEADY BURNING  
BI-DIRECTIONAL LIGHT; AT 25' SPACING
- 
WORK ZONE
- 
TEMPORARY CONCRETE BARRIER

FILE NAME: H:\N\14824\Construction\CADD\_Sheets\0814824-Traffic.dwg

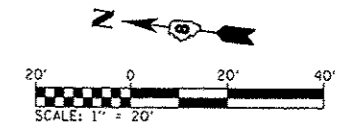
 <b>DAYS ASSOCIATES</b> Engineering • Architecture ILLINOIS DESIGN FIRM LICENSE NO: 184.001115	USER NAME : andymueller	DESIGNED -	REVISED -
	PLOT SCALE : 48.0000 ' / in.	DRAWN -	REVISED -
	PLOT DATE : 5/13/2016	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

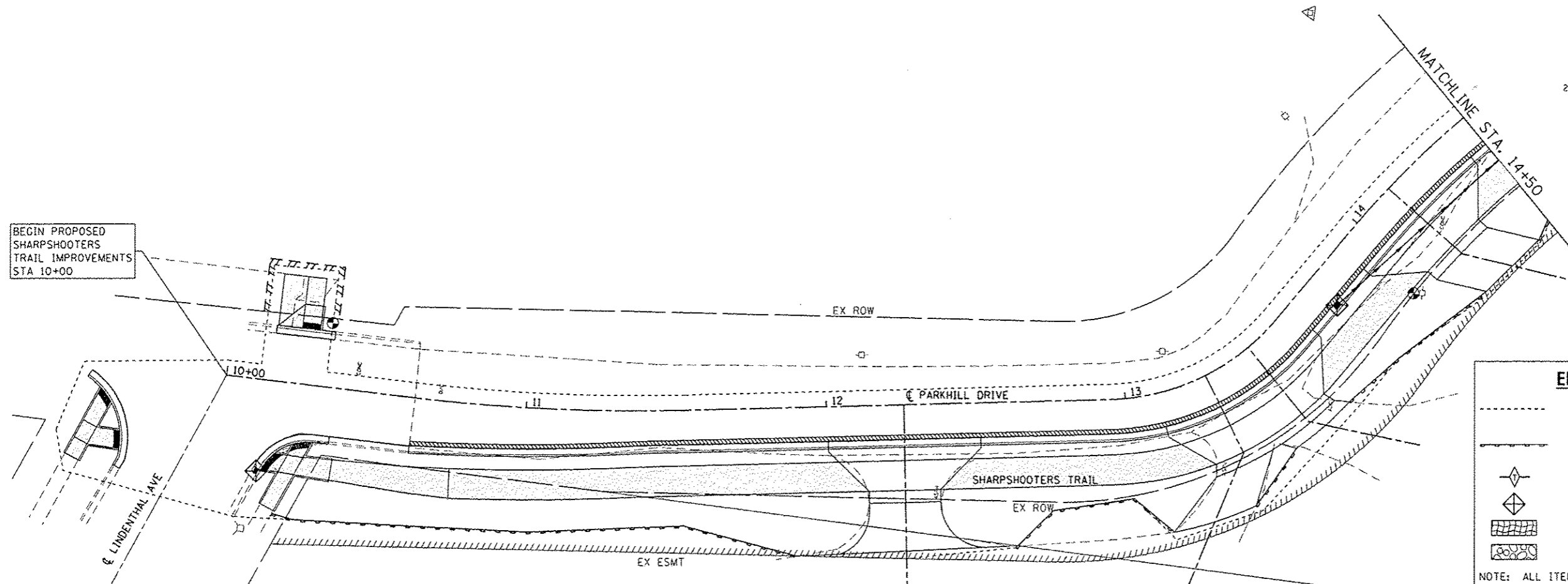
<b>TRAFFIC CONTROL PLANS</b>	
SCALE: 1"=20'	SHEET 1 OF 1 SHEETS STA. TO STA.

P.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-0006B-00-BT	MADISON	61	16
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
ILLINOIS FED. AID PROJECT				



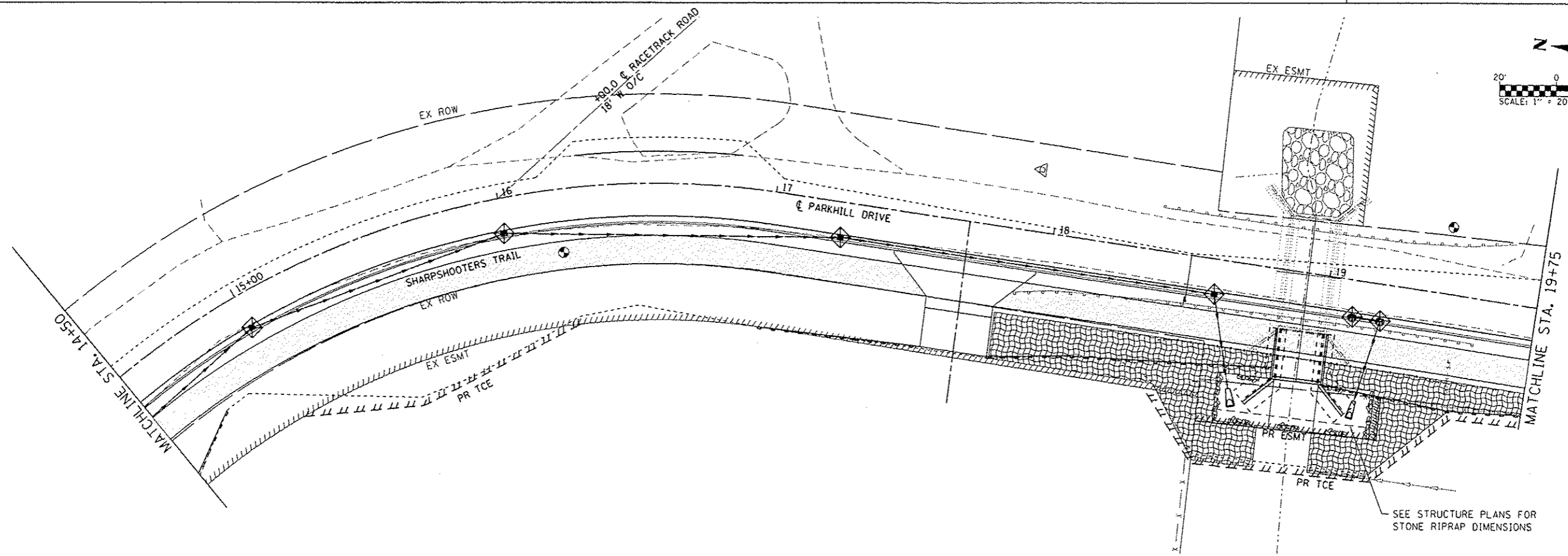
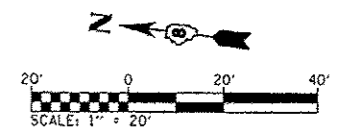


BEGIN PROPOSED SHARPSHOOTERS TRAIL IMPROVEMENTS STA 10+00



**EROSION CONTROL LEGEND**

- LIMITS OF CONSTRUCTION
  - PERIMETER EROSION BARRIER  
SILT FILTER FENCE OR OTHER  
AS APPROVED BY THE ENGINEER
  - ◇ TEMPORARY DITCH CHECKS
  - ◇ INLET AND PIPE PROTECTION
  - ▨ HEAVY DUTY EROSION CONTROL BLANKET
  - ⊞ STONE RIPRAP
- NOTE: ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER.



FILE NAME: K:\P\1\022\Microstation\0200 Sheets\081\082-Shr-Erosion Control.dgn

**DATES ASSOCIATES**  
Engineering + Architecture  
ILLINOIS DESIGN FIRM LICENSE NO. 184.001115

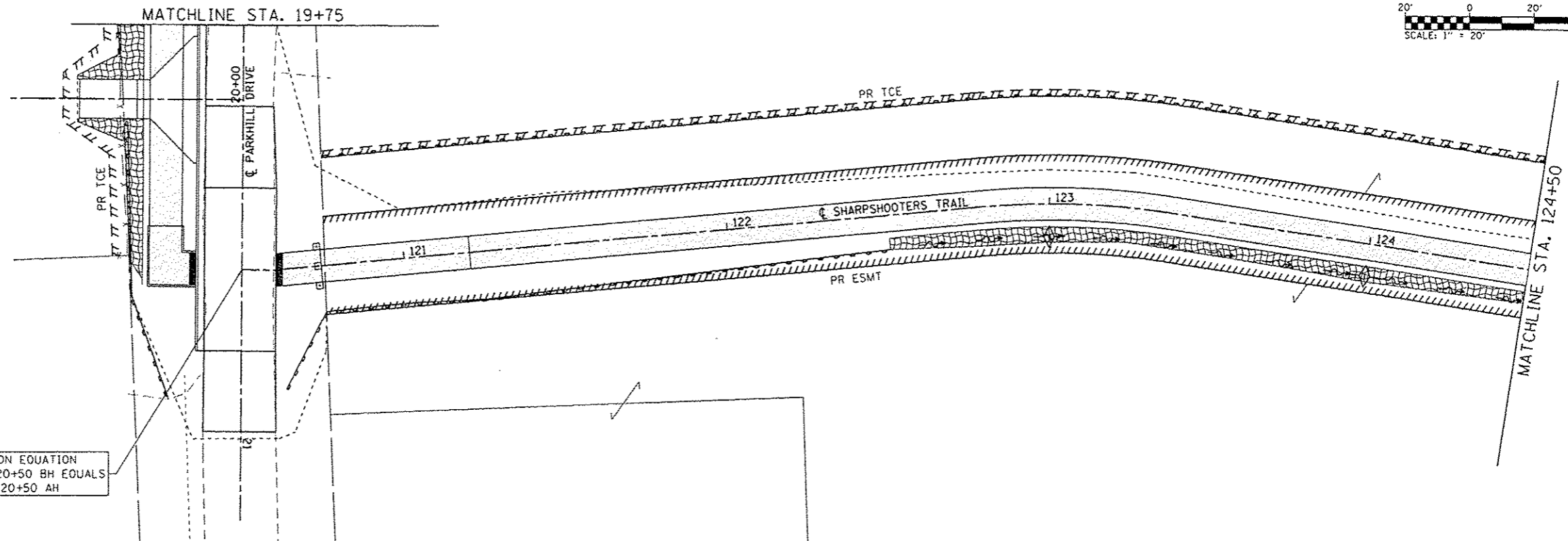
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PLOT SCALE: 40.0000' / 1"	DRAWN -	REVISED -
PLOT DATE: 5/12/2016	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

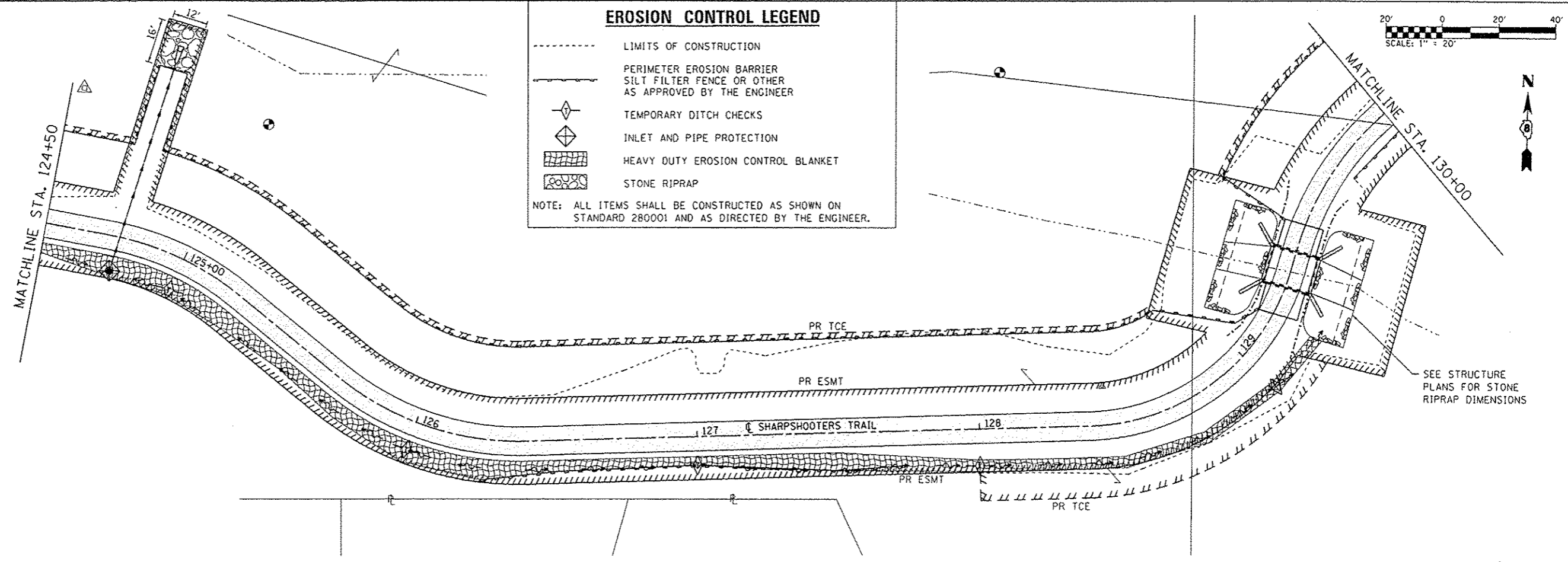
**EROSION CONTROL SHEETS**

SCALE: 1" = 20' SHEET 1 OF 3 SHEETS STA. 10+00 TO STA. 19+75

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	17
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
ILLINOIS FED. AID PROJECT				



STATION EQUATION  
 STA. 20+50 BH EQUALS  
 STA. 120+50 AH



**EROSION CONTROL LEGEND**

- LIMITS OF CONSTRUCTION
  - PERIMETER EROSION BARRIER  
SILT FILTER FENCE OR OTHER  
AS APPROVED BY THE ENGINEER
  - ◇ TEMPORARY DITCH CHECKS
  - ◇ INLET AND PIPE PROTECTION
  - ▨ HEAVY DUTY EROSION CONTROL BLANKET
  - ⊞ STONE RIPRAP
- NOTE: ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON  
 STANDARD 280001 AND AS DIRECTED BY THE ENGINEER.

SEE STRUCTURE  
 PLANS FOR STONE  
 RIPRAP DIMENSIONS

FILE NAME: H:\P\140821\Information\CADD\_Sheets\0814082-Sht.Erosion Control.dwg

**DATES ASSOCIATES**  
 Engineering & Architecture  
 ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

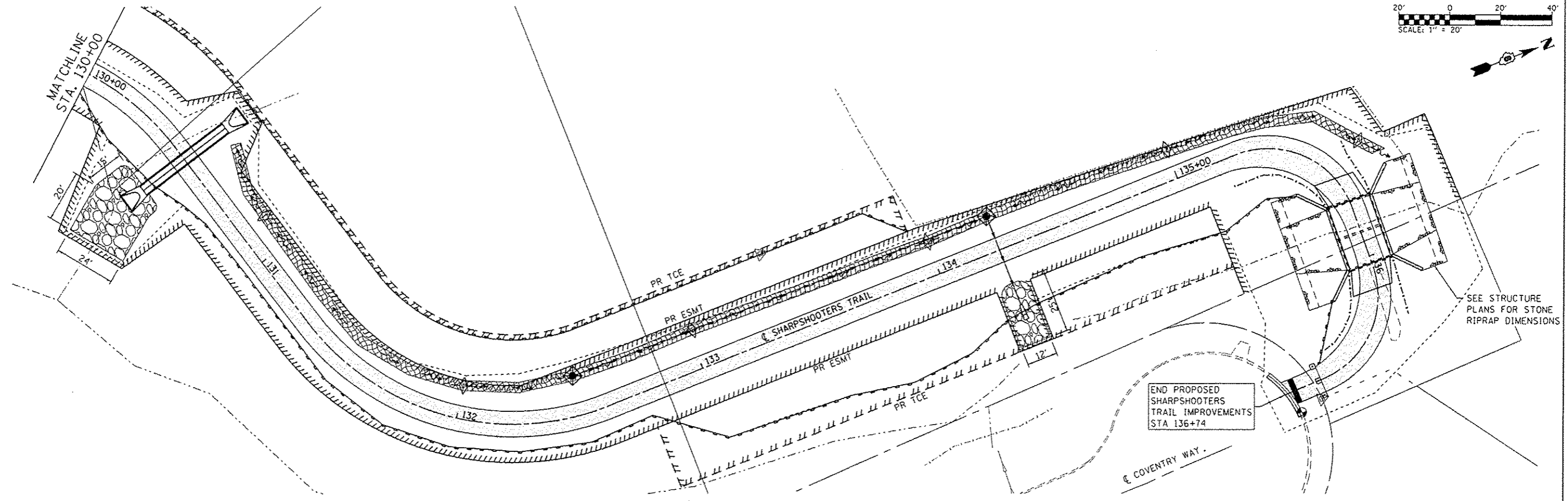
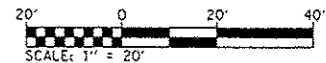
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PLOT SCALE = 48,0000 1" = 480'	DRAWN -	REVISED -
PLOT DATE = 5/10/2016	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EROSION CONTROL SHEETS

SCALE: 1" = 20' SHEET 2 OF 3 SHEETS STA. 19+75 TO STA. 130+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	18
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
ILLINOIS FED. AID PROJECT				



**EROSION CONTROL LEGEND**

- LIMITS OF CONSTRUCTION
- PERIMETER EROSION BARRIER  
SILT FILTER FENCE OR OTHER  
AS APPROVED BY THE ENGINEER
- ◆ TEMPORARY DITCH CHECKS
- ◆ INLET AND PIPE PROTECTION
- ▨ HEAVY DUTY EROSION CONTROL BLANKET
- ▩ STONE RIPRAP

NOTE: ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER.

FILE NAME: H:\P\14882\Microstation\CAD\Sheets\DB14882-Sharps-Erosion Control.dgn

**DATES ASSOCIATES**  
Engineering + Architecture  
ILLINOIS DESIGN FIRM LICENSE NO. 184.001115

USER NAME = andymueller	DESIGNED -	REVISED -
PLOT SCALE = 40,0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 5/10/2016	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

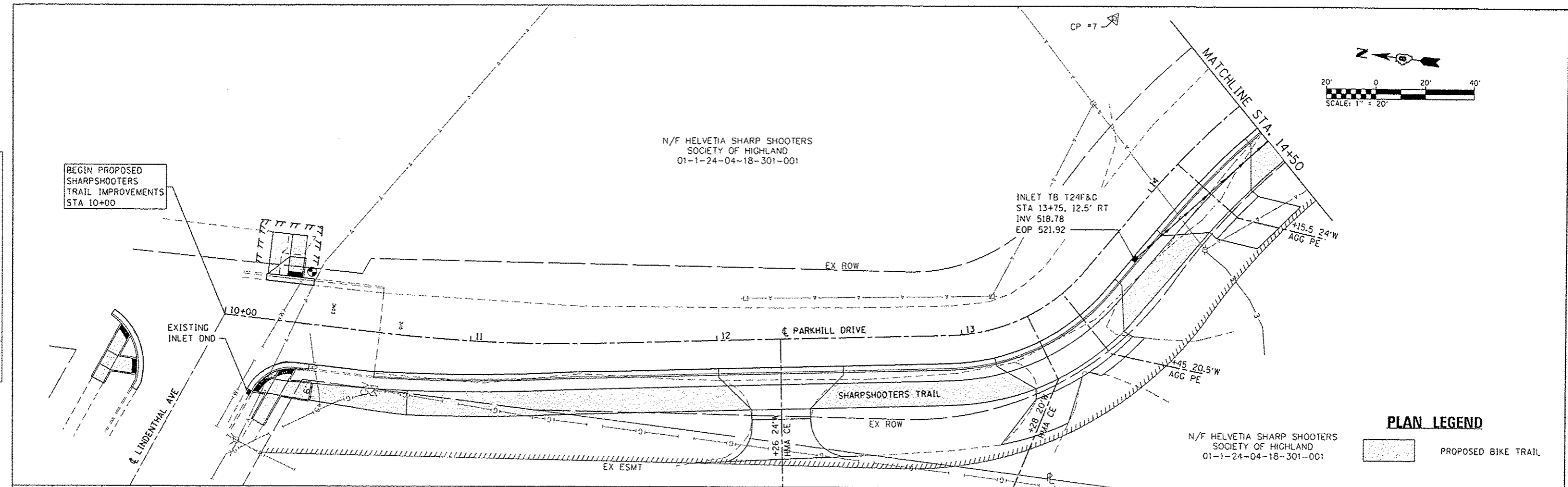
**EROSION CONTROL SHEETS**

SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. 130+00 TO STA. 136+74

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
885A	14-00068-00-BT	MADISON	61	19
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
ILLINOIS FED. AID PROJECT				

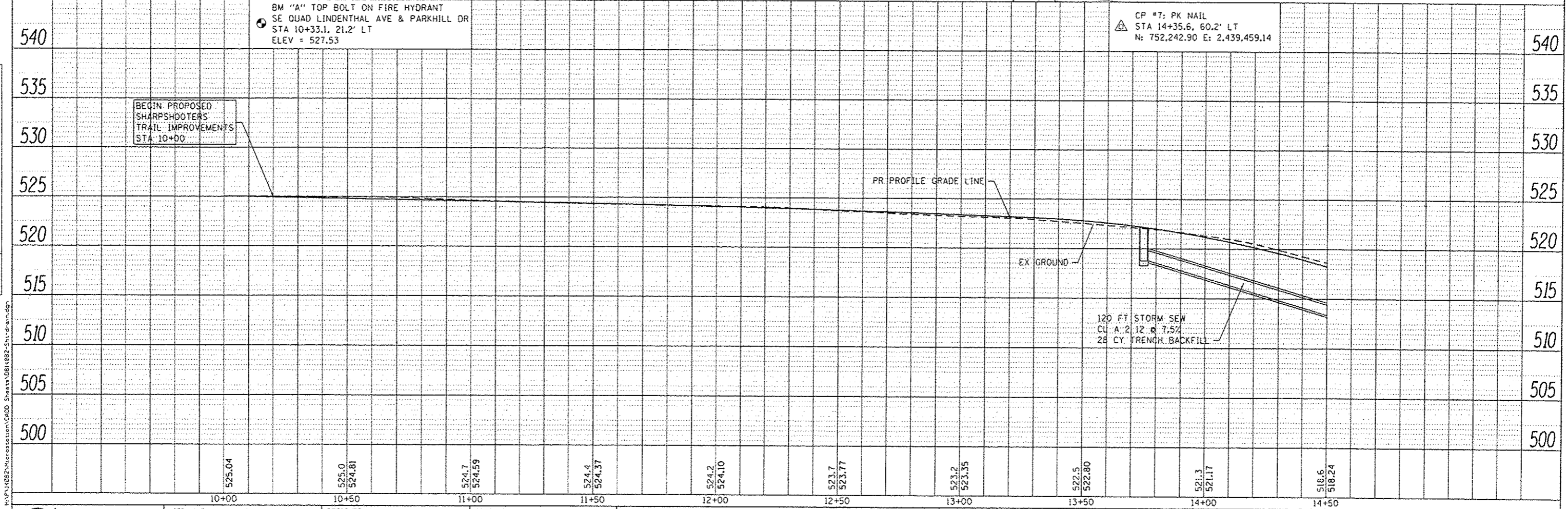
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BY	
PLAN	
NO.	
DATE	
BY	
PROFILE	
NO.	

DATE	
BY	
PROFILE	
NO.	
DATE	
BY	
PLAN	
NO.	



**PLAN LEGEND**

PROPOSED BIKE TRAIL



10+00	525.04	10+50	525.0 524.81	11+00	524.7 524.59	11+50	524.4 524.37	12+00	524.2 524.10	12+50	523.7 523.77	13+00	523.2 523.35	13+50	522.5 522.80	14+00	521.3 521.17	14+50	518.6 518.24
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**DATES ASSOCIATES**  
Engineering & Architecture  
ILLINOIS DESIGN FIRM LICENSE NO. 181.001115

USER NAME: andymweller	DESIGNED -	REVISED -
PLOT SCALE: 1/4" = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE: 5/10/2016	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE PLAN & PROFILE SHEETS**

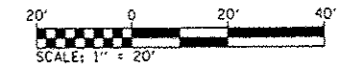
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F.A.U. RTE. 8854	SECTION 14-00068-00-BT	COUNTY MADISON	TOTAL SHEETS 61	SHEET NO. 20
SHARPSHOOTERS BIKE TRAIL CONST.		CONTRACT NO. 97627		
HIGHLAND		ILLINOIS FED. AID PROJECT		

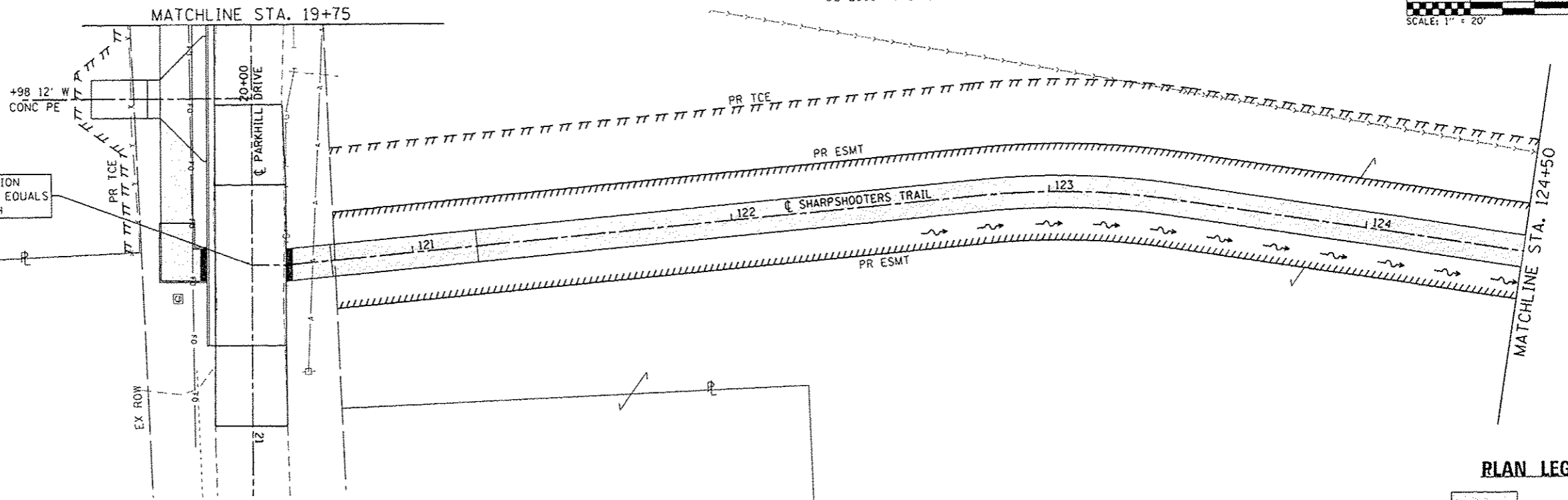
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N/F HELVETIA SHARP SHOOTERS  
 SOCIETY OF HIGHLAND  
 01-1-24-04-18-301-007  
 DB 2969 PG 2058



N/F VIRDELL BECKMAN  
 01-2-24-04-18-301-002



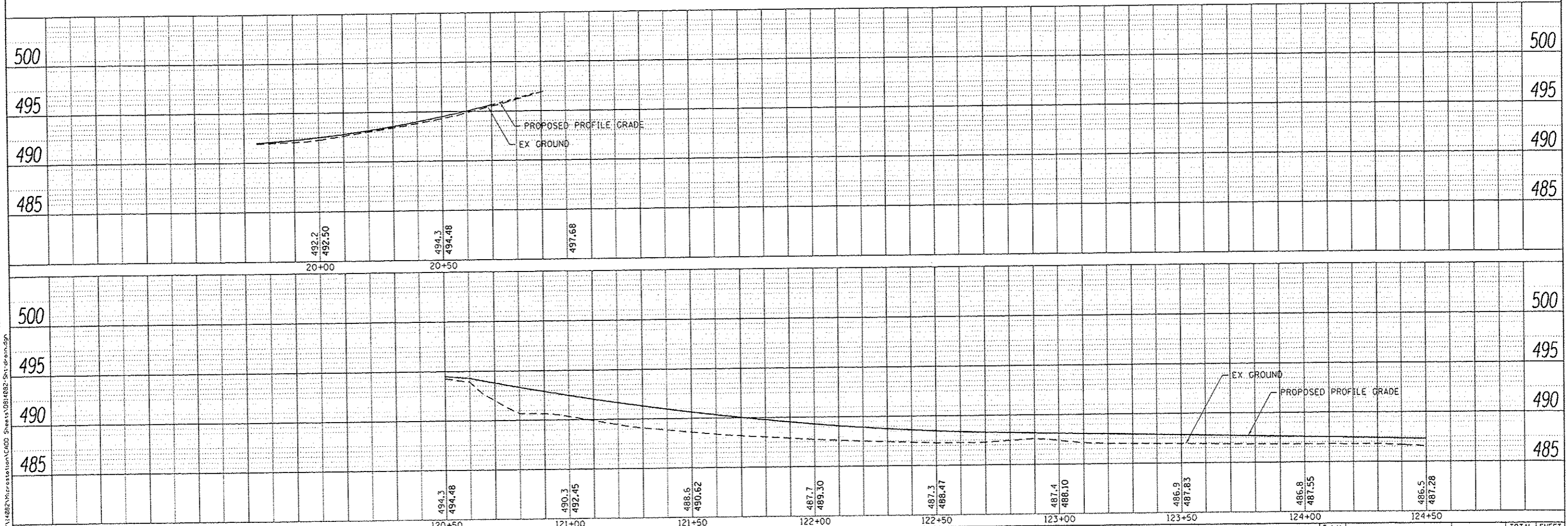
N/F GARY AND CINDY ADOLPH  
 01-2-24-04-18-301-003

**PLAN LEGEND**

PROPOSED BIKE TRAIL

PLAN	DATE
NO.	
NO.	
NO.	
NO.	
NO.	

PROFILE	DATE
NO.	
NO.	
NO.	
NO.	
NO.	



FILE NAME: H:\P14682\MicroStation\CADD Sheets\081402-Sht-01-01.dgn



USER NAME: andymuller	DESIGNED -	REVISED -
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	CHECKED -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

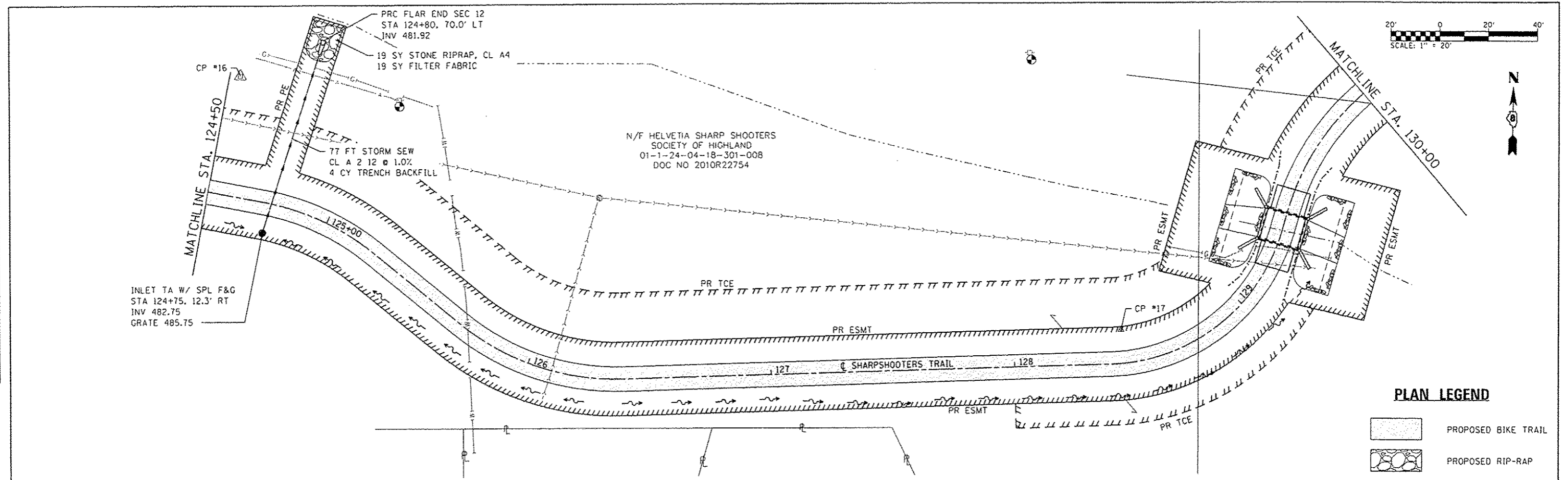
**DRAINAGE PLAN & PROFILE SHEETS**

SCALE: 1" = 20' SHEET 3 OF 5 SHEETS STA. 29+75 TO STA. 36+75

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	22
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
HIGHLAND ILLINOIS FED. AID PROJECT				

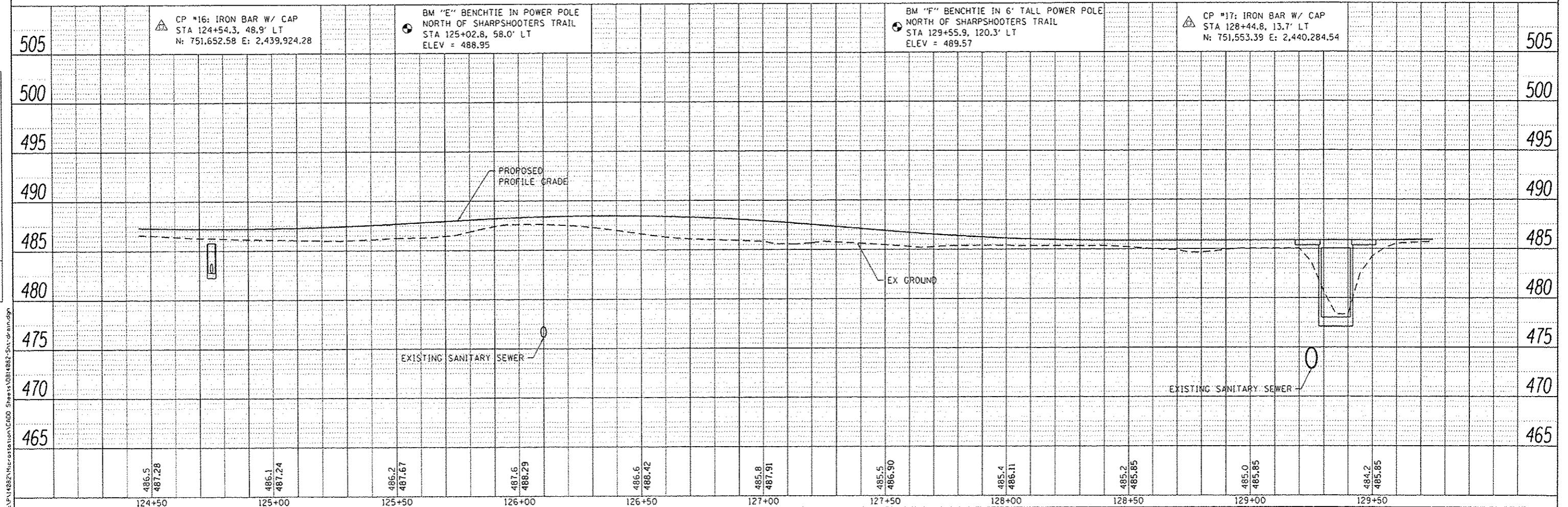
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BY	
REVISIONS	
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NOTE BOOK	
NO.	

DATE	
BY	
REVISIONS	
PROFILING	
GRADES CHECKED	
S.M. NOTED	
STRUCTURE NOTATIONS	
NOTE BOOK	
NO.	



**PLAN LEGEND**

	PROPOSED BIKE TRAIL
	PROPOSED RIP-RAP





<p><b>OATES ASSOCIATES</b> Engineering + Architecture ILLINOIS DESIGN FIRM LICENSE NO. 184.001115</p>	USER NAME = andymueller	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE PLAN &amp; PROFILE SHEETS</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 42.0000' / in.	DRAWN -	REVISED -			8854	14-00068-00-BT	MADISON	61	23
	PLOT DATE = 5/10/2016	CHECKED -	REVISED -			SHARPSHOOTERS BIKE TRAIL CONST. CONTRACT NO. 97627				
		DATE -	REVISED -			HIGHLAND ILLINOIS FED. AID PROJECT				

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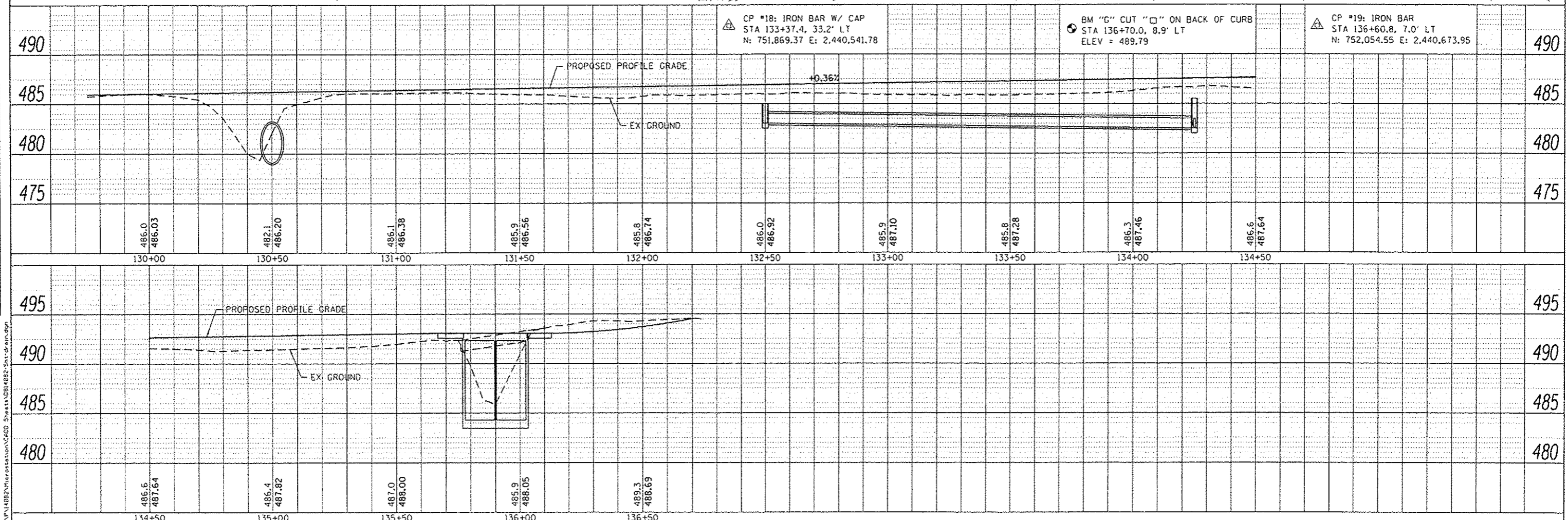
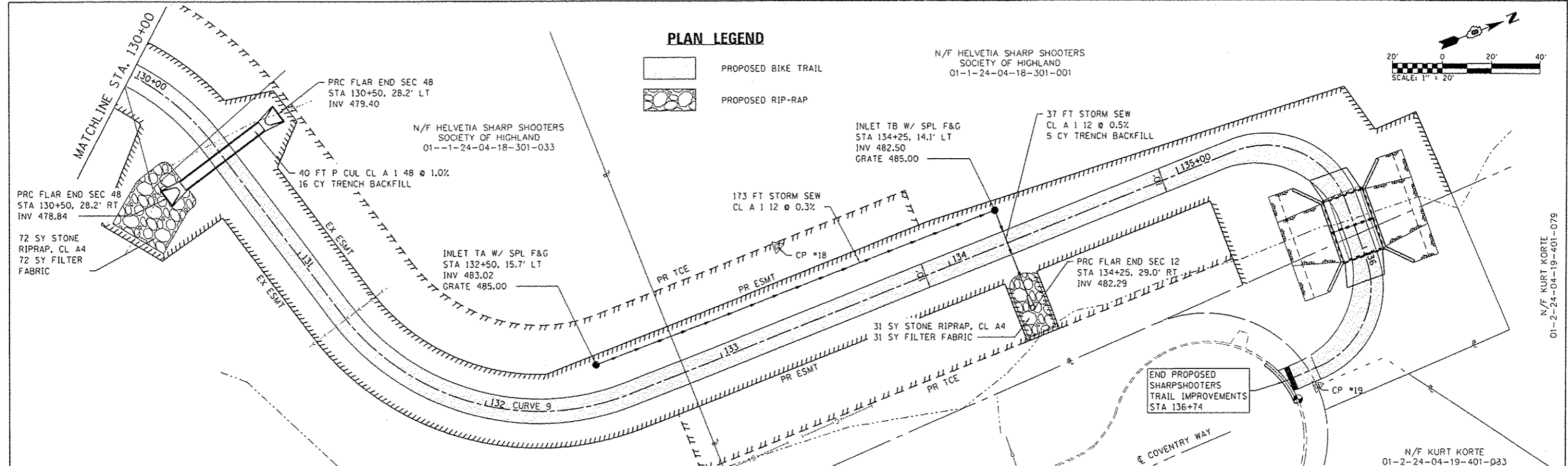
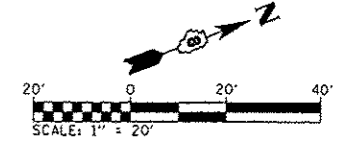
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CHECKED	
DRAWN	
NOTED	
BY	
NO.	


PROFILE	DATE
DESIGNED	
CHECKED	
DRAWN	
NOTED	
BY	
NO.	

**PLAN LEGEND**

-  PROPOSED BIKE TRAIL
-  PROPOSED RIP-RAP

N/F HELVETIA SHARP SHOOTERS  
SOCIETY OF HIGHLAND  
01-1-24-04-18-301-001



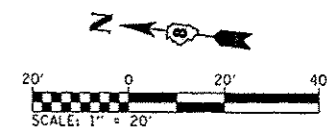
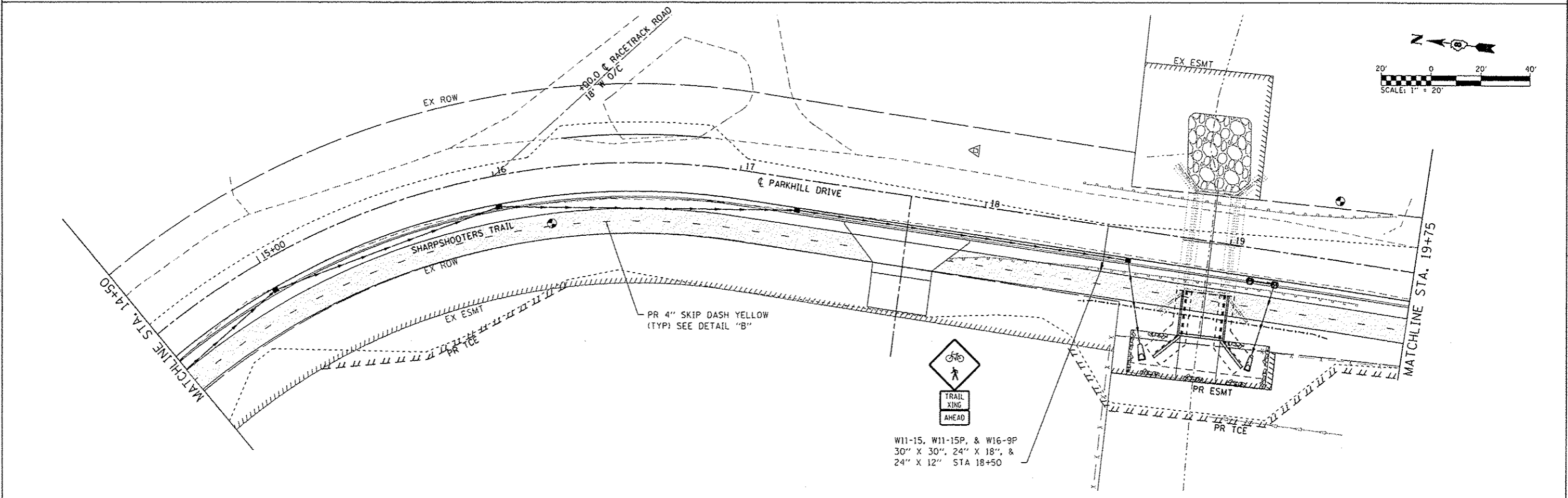
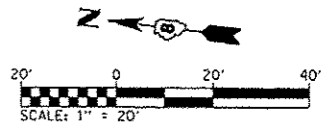
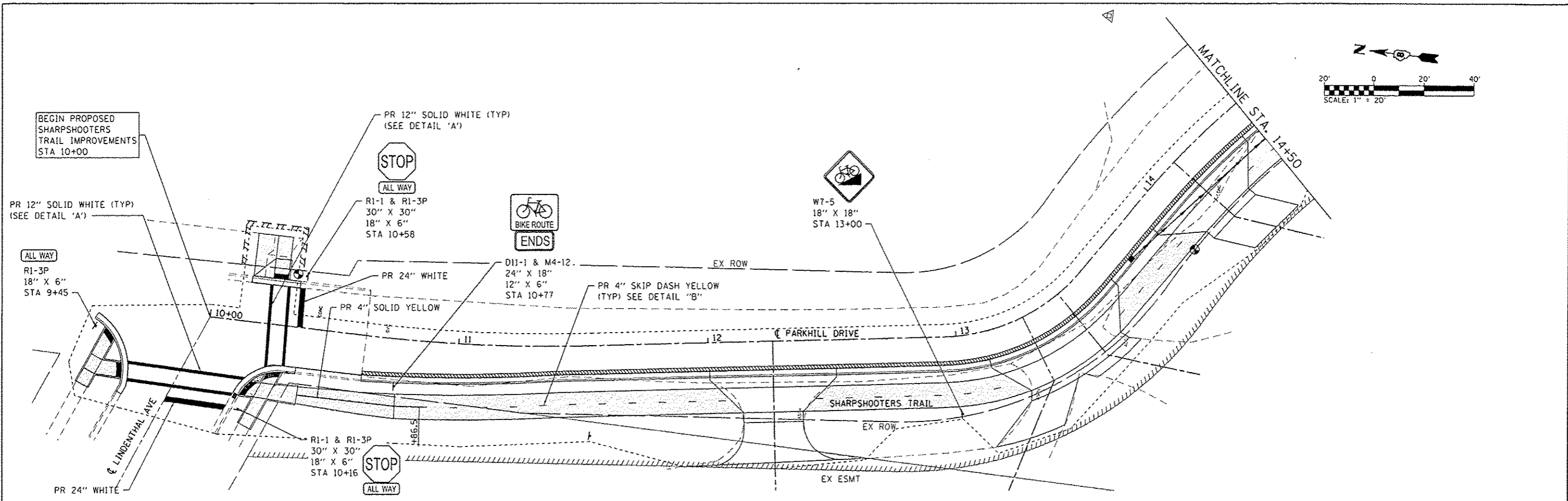
 <p><b>DAYS ASSOCIATES</b> Engineering + Architecture ILLINOIS DESIGN FIRM LICENSE NO. 184.001115</p>	USER NAME + andy.mueller	DESIGNED -	REVISED -	<p><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>	<p><b>DRAINAGE PLAN &amp; PROFILE SHEETS</b></p>	<p>SCALE: 1" = 20' SHEET 5 OF 5 SHEETS STA. 29+75 TO STA. 36+75</p>	F.A.U. RTE. 8854	SECTION 14-00068-00-BT	COUNTY MADISON	TOTAL SHEETS 61	SHEET NO. 24
	PLOT SCALE + 40,0000' / in.	DRAWN -	REVISED -				SHARPshooters BIKE TRAIL CONST.	CONTRACT NO. 97627			
	PLOT DATE + 5/18/2016	CHECKED -	REVISED -				HIGHLAND	ILLINOIS FEQ. A10 PROJECT			


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N/F KURT KORTE  
01-2-24-04-19-401-079

N/F KURT KORTE  
01-2-24-04-19-401-033





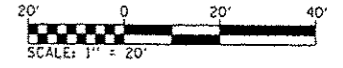
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	PLOT SCALE : 40,0000' / 1"	CHECKED -	REVISED -			SCALE: 1" = 20'	SHEET 1 OF 3 SHEETS	STA. 10+00 TO STA. 19+75	SHARPSHOOTERS BIKE TRAIL CONST.		CONTRACT NO. 97627
	PLOT DATE : 5/12/2016	DATE -	REVISED -						ILLINOIS FED. AID PROJECT		

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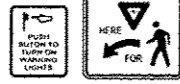
PR 4" SKIP DASH YELLOW  
(TYP) SEE DETAIL "B"

MATCHLINE STA. 19+75

PR 12" SOLID WHITE (TYP)



PR 4" SOLID YELLOW  
(TYP)



R1-5 & R10-25  
1 EA - SOLAR-POWER  
FB AS CMP  
36" X 36"  
9" X 12"  
STA 20+43



R1-1 & W4-4P  
18" X 18"  
18" X 9"  
STA. 20+56

STATION EQUATION  
STA. 20+50 BH EQUALS  
STA. 120+50 AH

20+00  
PARKHILL DRIVE

R1-1 & W4-4P  
18" X 18"  
18" X 9"  
STA. 120+68



PR 4" SOLID YELLOW  
(TYP)

PR 4" SKIP DASH YELLOW  
(TYP) SEE DETAIL "B"

PR 4" SOLID YELLOW  
DIAMOND SEE DETAIL "C"



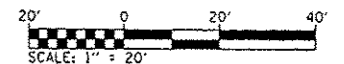
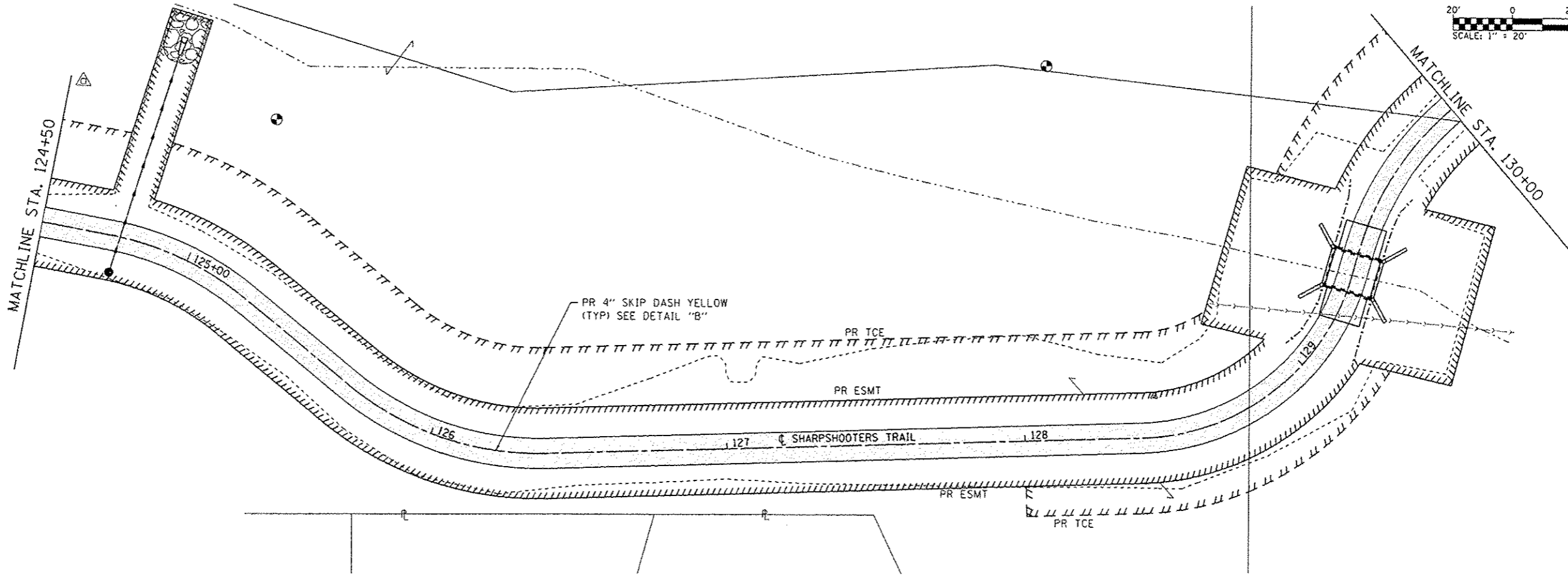
R1-5 & R10-25  
1 EA - SOLAR-POWER FB AS CMP  
36" X 36"  
9" X 12"  
STA 20+55



R5-3  
24" X 24"  
24" X 24"  
STA 121+00  
SEE DETAILS FOR  
IMPASSABLE DURING  
HIGH WATER SIGN

W11-15, W11-15P, & W16-9P  
30" X 30", 24" X 18", &  
24" X 12" STA 22+50 LT

NOTES:  
SIGN PANELS LOCATED AT STA. 20+42 AND STA. 20+58 WILL BE  
PLACED ON SOLAR-POWERED FLASHING BEACONS ASSEMBLY (COMPLETE)  
SEE CONSTRUCTION DETAILS FOR SIGN ASSEMBLY.



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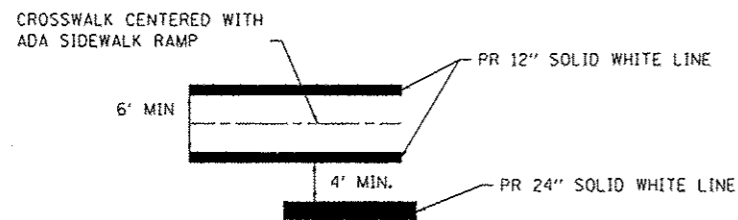
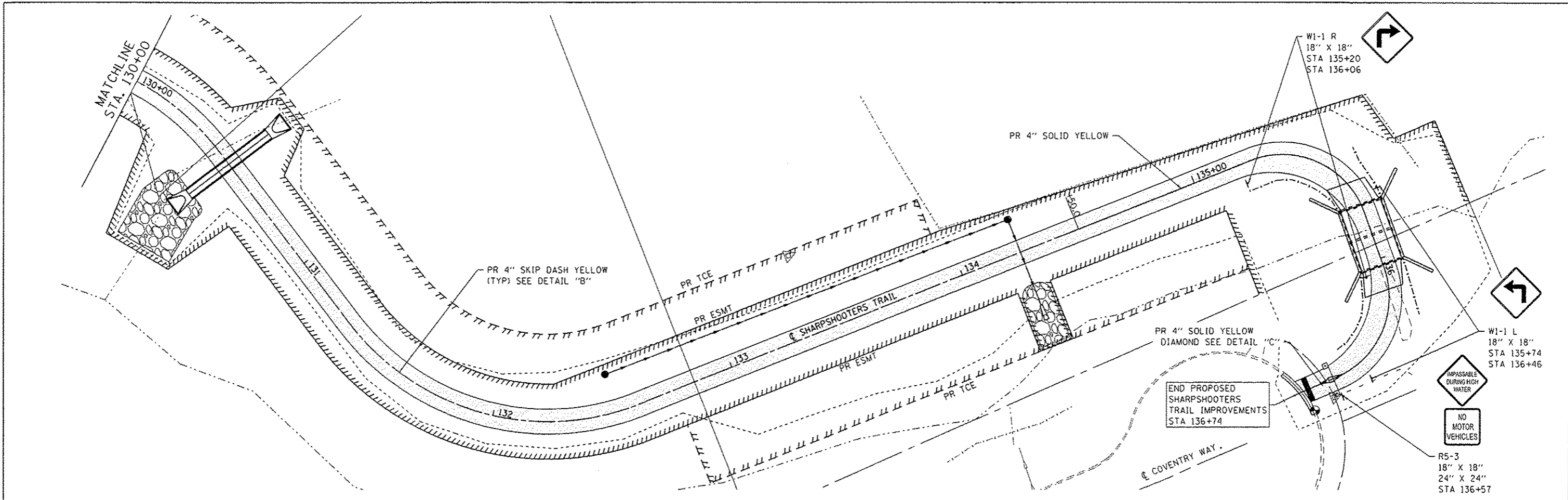
USER NAME: andymueller  
DESIGNED: -  
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PLOT SCALE: 40,0000 / 1 in.  
PLOT DATE: 5/12/2016

REVISOR: -  
REVISION: -  
REVISION: -  
REVISION: -

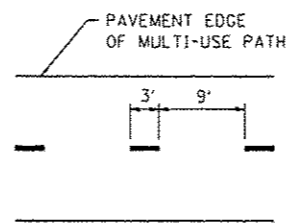
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING SHEET  
SCALE: 1" = 20" SHEET 2 OF 3 SHEETS STA. 19+75 TO STA. 130+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
ILLINOIS FED. AID PROJECT				

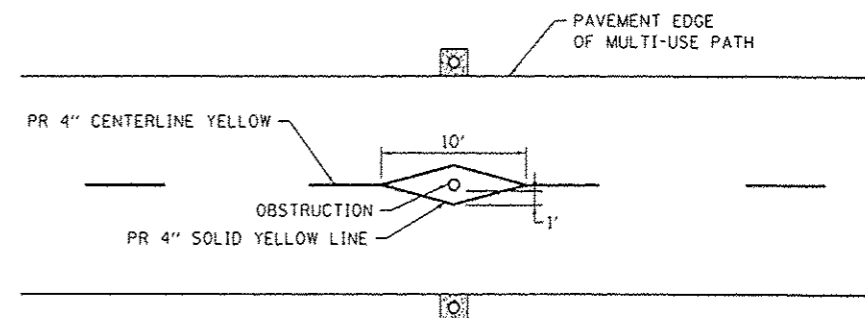


**DETAIL "A"**  
(NOT TO SCALE)



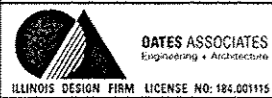
TYPICAL APPLICATION FOR 4" SOLID YELLOW, SKIP-DASH LANE LINES ON THE PROPOSED SHARED-USE PATH

**DETAIL "B"**  
(NOT TO SCALE)



**DETAIL "C"**  
(NOT TO SCALE)

FILE NAME: I:\P\1682\Microstation\CADD\_Sheets\081682-Shr-Pkwy & Signs.dgn



USER NAME	andy.mueller
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	5/12/2016
PLT SCALE	48.0000' / in.

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING SHEET

SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. 130+00 TO STA. 136+74

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	27
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
ILLINOIS FED. AID PROJECT				

Benchmark: BM D. Benchtie in power pole on east side of Parkhill Dr.  
Sta. 19+38.9, 23.6' L.T., Elev. 491.83

Existing Structure: Three-sided precast concrete structure with precast concrete wingwalls supported by cast-in-place concrete spread footings constructed in 1999.

Traffic Control: See Roadway plans.

Salvage: None

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Shape of new precast sections shall match existing.

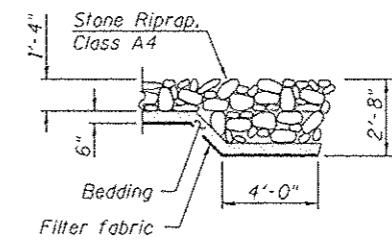
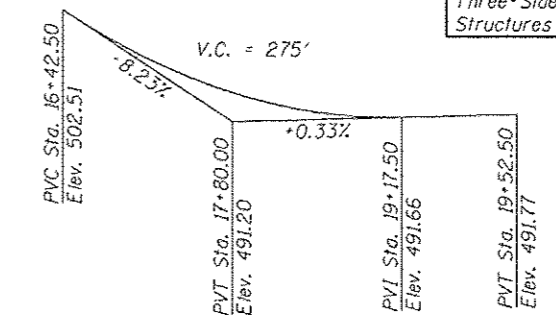
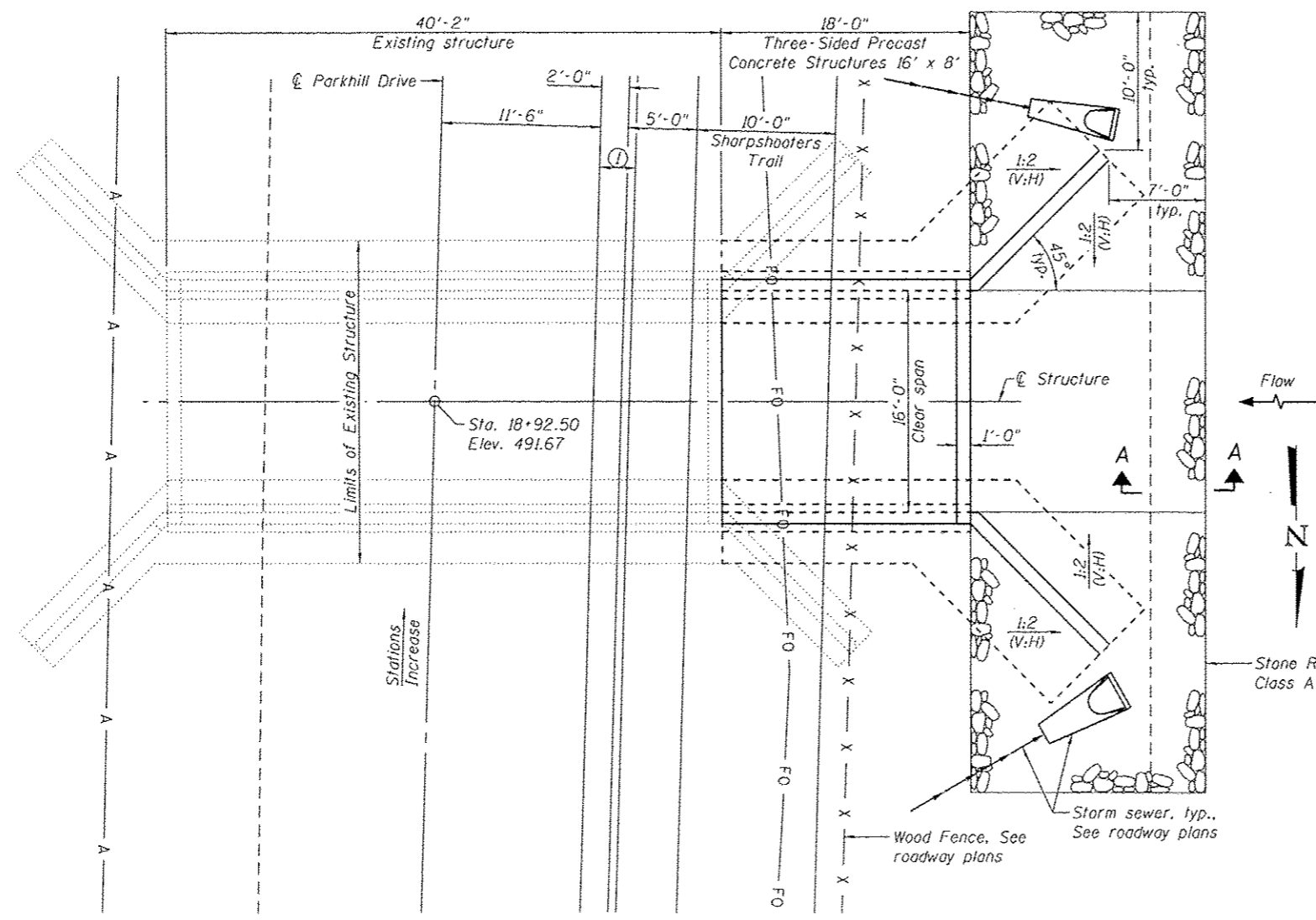
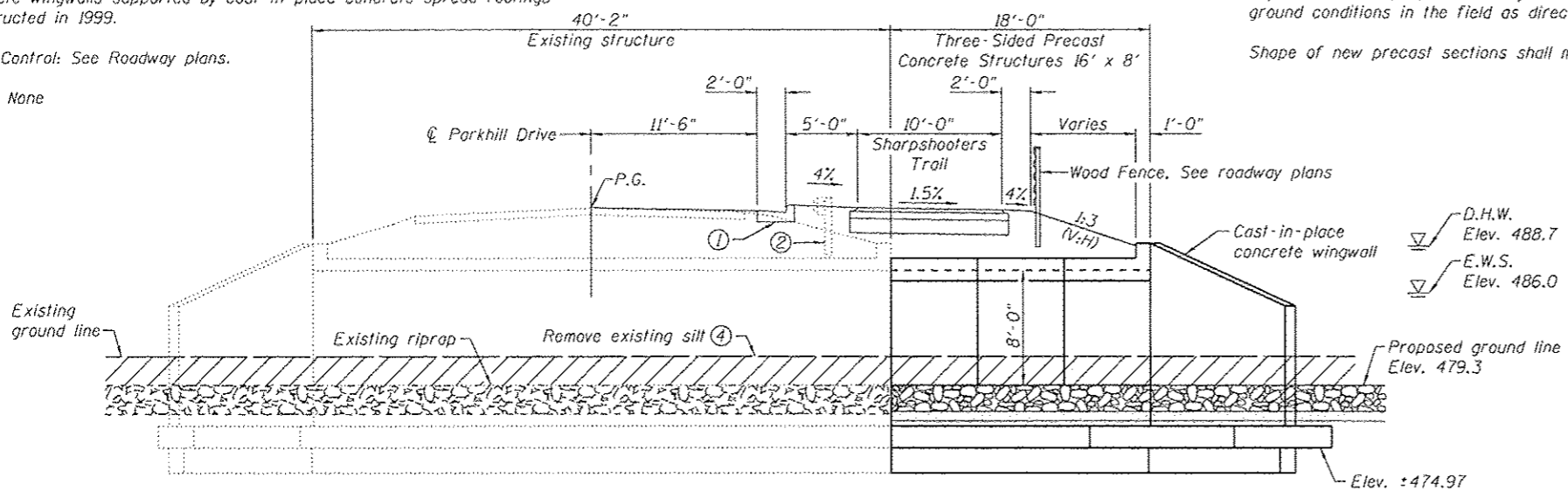
**WATERWAY INFORMATION**

Drainage Area = 2.0 sq. mi. Existing Low Grade Elev. 491.5 at Sta. 19+00  
Proposed Low Grade Elev. 491.5 at Sta. 19+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	Nat. H.W.E.	Exist. Prop.	Exist.	Prop.	
Design/OT	10	950	90	120	488.4	0.8	0.8	489.2	489.2
	30	1,300	90	120	488.7	2.7	2.7	491.4	491.4
	50	1,380	90	120	488.8	3.1	3.1	491.9	491.9
Base	100	1,900	90	120	489.8	2.6	2.6	492.4	492.4
Max. Calc.	500	2,190	90	120	490.1	2.7	2.7	492.8	492.8

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Channel Excavation	Cu. Yd.	85
Porous Granular Embankment	Cu. Yd.	130
Stone Riprap, Class A4	Sq. Yd.	142
Filter Fabric	Sq. Yd.	142
Removal of Existing Structures No. 1	Each	1
Structure Excavation	Cu. Yd.	295
Concrete Structures	Cu. Yd.	50.6
Reinforcement Bars, Epoxy Coated	Pound	6,130
Three-Sided Precast Concrete Structures 16' x 8'	Foot	18



**INDEX OF SHEETS**

Sheet No.	Description
1	General Plan & Elevation
2-3	Structure Details

**DESIGN SPECIFICATIONS**  
1996 AASHTO Standard Specifications for Highway Bridges

**DESIGN STRESSES**

- FIELD UNITS**  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)
- PRECAST UNITS**  
f'c = 5,000 psi  
fy = 65,000 psi (Welded wire fabric)
- EXISTING**  
f'c = 3,500 psi  
f'c = 4,000 psi (Precast)  
fy = 60,000 psi (Reinforcement)  
fy = 65,000 psi (Welded wire fabric)

**DESIGN CRITERIA**

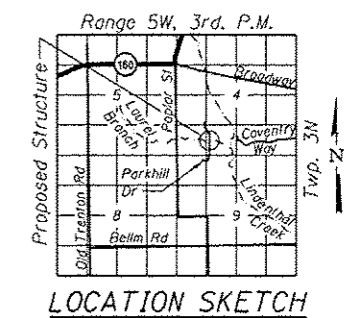
- Live Load: HS 20-44  
Equivalent Fluid Pressure = 45 pcf  
Precast Bridge Weight = 2.09 kip/foot/leg  
Allowable Net Soil Brg. Pressure = 3,000 psf

- Notes:  
① B-6.24 concrete curb and gutter, see roadway plans.  
② Existing guardrail to be removed, see roadway plans.  
③ See Special Provisions and Removal Details on sheet 2 of 3.  
④ Removal of existing silt shall be paid for as Channel Excavation.

I certify that to the best of knowledge, information and belief, the foundation and wingwall design is structurally adequate for the design loading shown. The design is an economical one for the style of structure and complies with the requirements of the AASHTO Standard Specifications for Highway Bridges, current at the time of original construction.

**BRUCE P. SCHOPP**  
LICENSED STRUCTURAL ENGINEER  
STATE OF ILLINOIS  
081 005158

*Bruce P. Schopp*  
DATE: 5/10/2016  
EXPIRATION: 11/30/2016



**GENERAL PLAN & ELEVATION**  
**SHARPSHOOTERS TRAIL & PARKHILL DRIVE OVER LAUREL BRANCH**  
**SEC. 14-00068-00-BT**  
**MADISON COUNTY**  
**STATION 18+92.50**

FILE NAME: H:\P\14882\Structure\14882-Laurel Extension\01-General Plan & Elevation.dwg

**OATES ASSOCIATES**  
Engineering + Architecture  
ILLINOIS DESIGN FIRM LICENSE NO: 186.00115

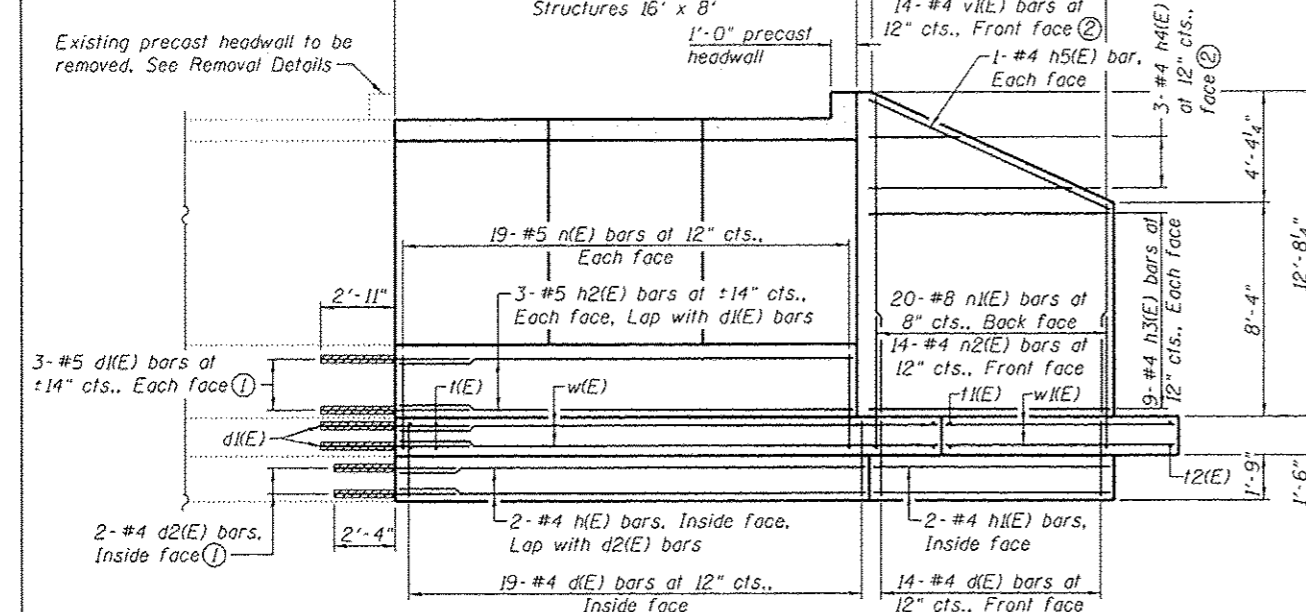
USER NAME	DESIGNED	REVISIONS
JAD	JAD	
KBC	KBC	
JAD	JAD	
KBC	KBC	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

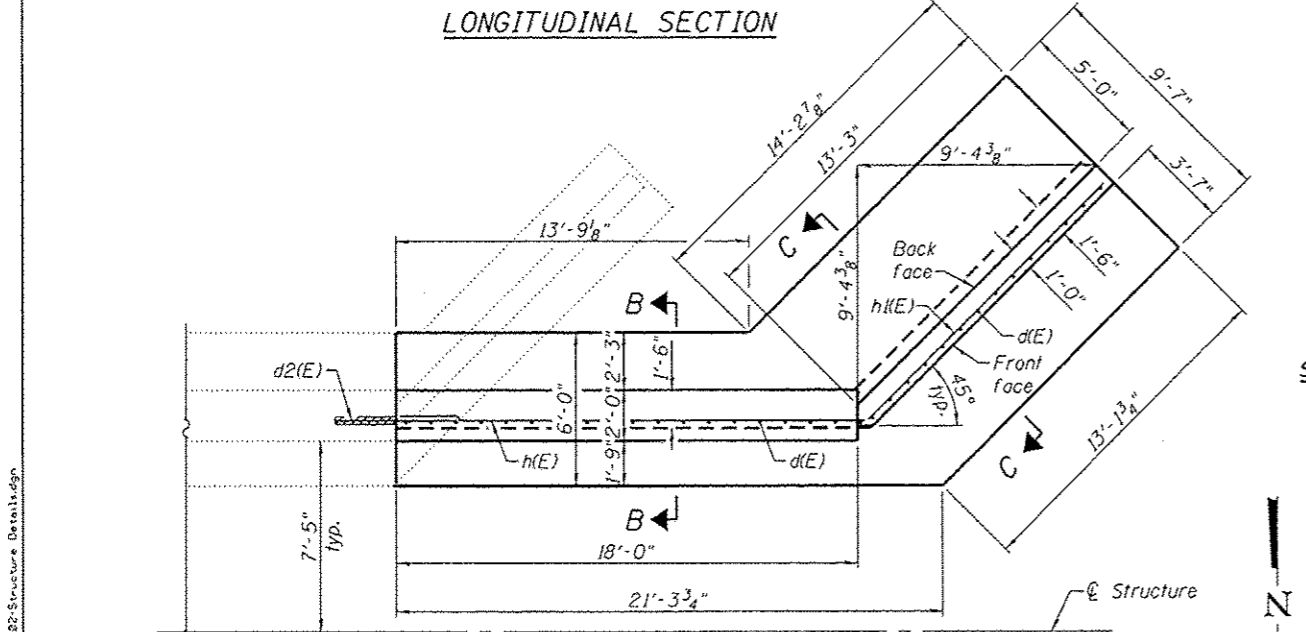
SHEET NO. 1 OF 3 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	28

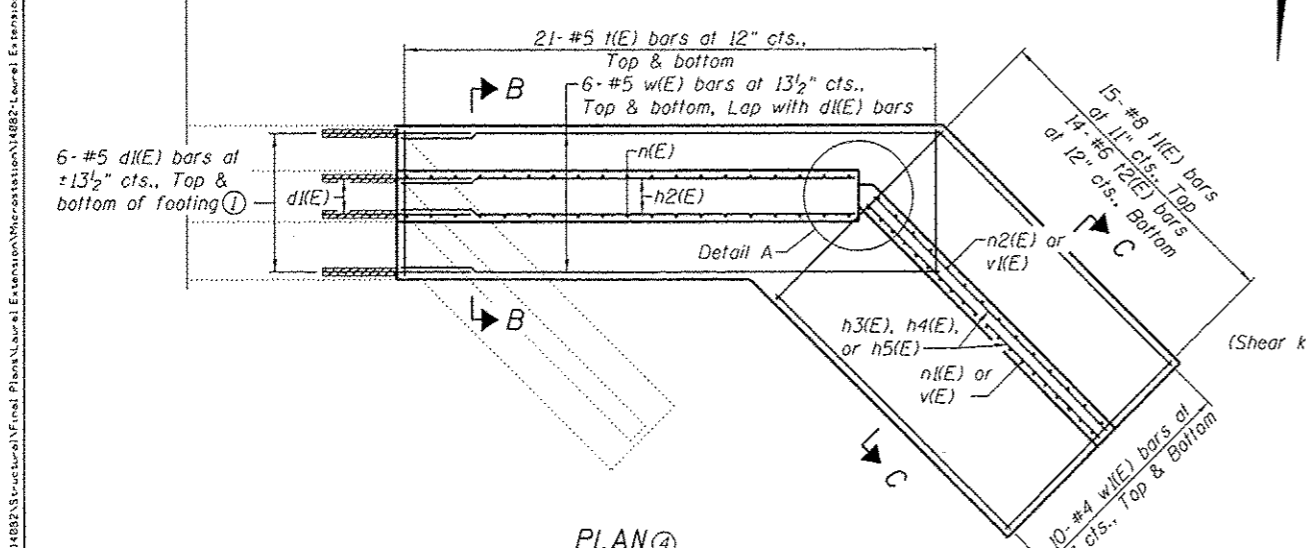
SHARPSHOOTERS BIKE TRAIL CONST. CONTRACT NO. 97627  
HIGHLAND ILLINOIS FED. AID PROJECT



LONGITUDINAL SECTION

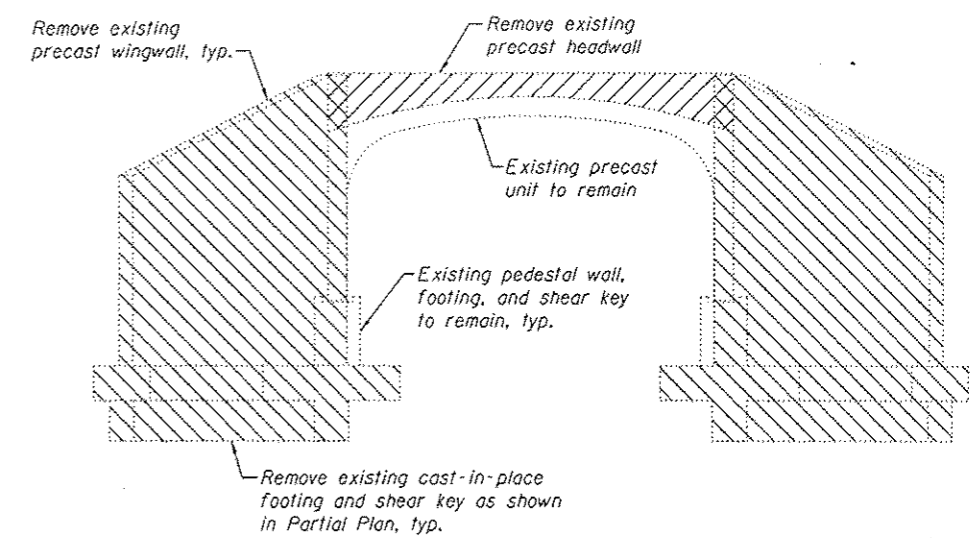


SHOWING DIMENSIONS & SHEAR KEY REINFORCEMENT

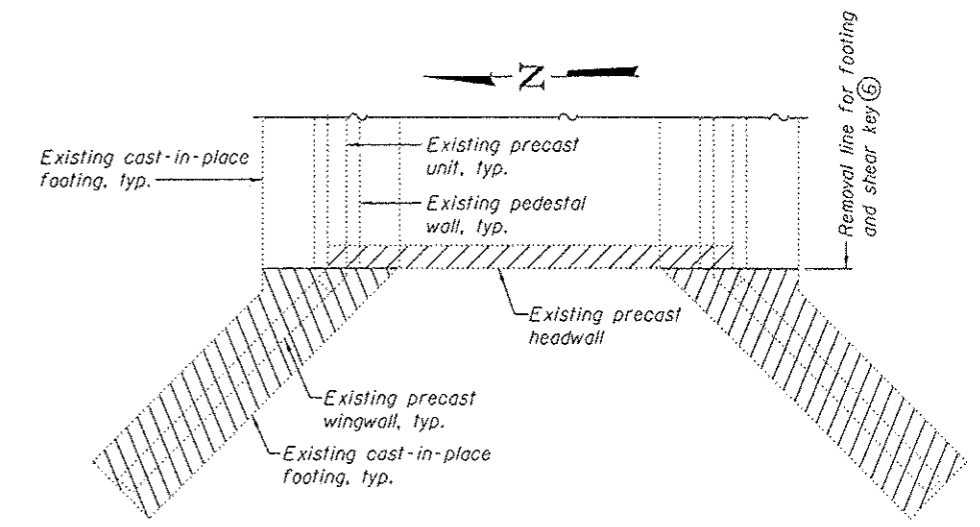


SHOWING REINFORCEMENT (Shear key reinforcement not shown for clarity)

PLAN ④



END ELEVATION



PARTIAL PLAN

Removal of Existing Structures No. 1

REMOVAL DETAILS ⑤

- Notes:
- ① Epoxy grout d(E) bars 2'-11" min. and d2(E) bars 2'-4" min. in drilled holes according to Section 584 of the Standard Specifications and the manufacturer's written instructions. New reinforcement shall not be closer than 1/2" to corresponding reinforcement in existing concrete.
  - ② See Field Cutting Diagram.
  - ③ For Section B-B & C-C, Detail A, Section Thru Structure, bar details, Field Cutting Diagrams, and Bill of Material, see sheet 3 of 3.
  - ④ Precast sections not shown for clarity.
  - ⑤ Removal of Existing Structures No. 1 shall include the complete removal of the existing precast concrete headwall, existing precast concrete wingwalls, and the existing cast-in-place concrete foundation below the wingwalls at the west end of the existing structure. The existing footing shall be saw cut full depth at the removal line as shown in Partial Plan.
  - ⑥ Removal line is located at the west end of the existing pedestal wall and end precast unit. No portion of the existing pedestal wall or precast unit shall be removed or damaged, except that the headwall of the end precast unit shall be removed as shown.

**MINIMUM BAR LAP**  
 #4 bar (wingwall) = 2'-1"  
 #4 bar (shear key) = 2'-4"  
 #5 bar = 2'-11"  
 #8 bar = 5'-5"

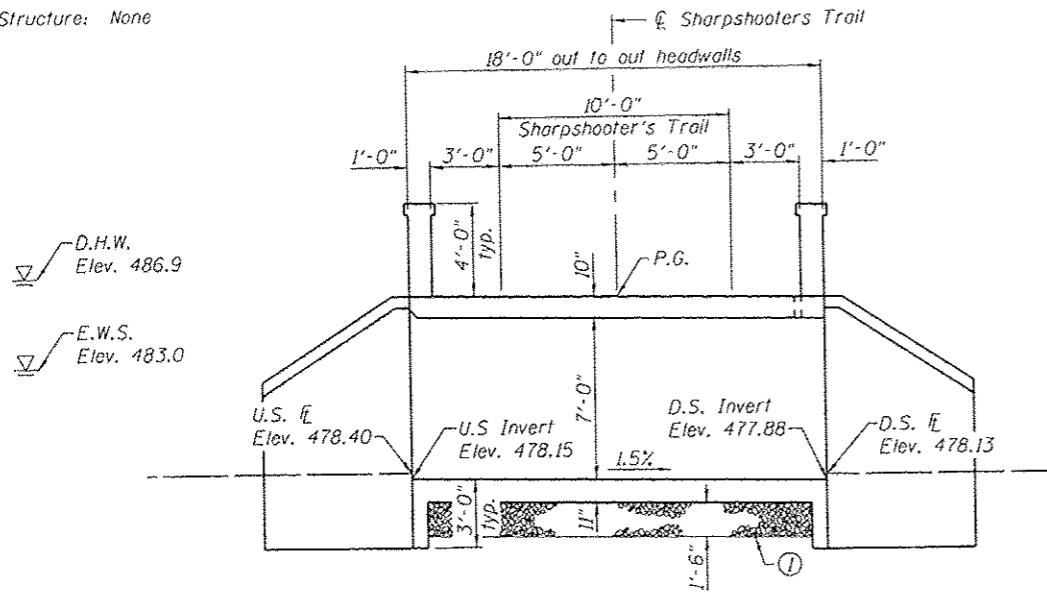
USER NAME *	DESIGNED - JAD	REVISD -
PLOT SCALE *	CHECKED - KBC	REVISD -
PLOT DATE *	DRAWN - JAD	REVISD -
	CHECKED - KBC	REVISD -

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	29
SHARPSHOOTERS BIKE TRAIL CONST.		CONTRACT NO. 97627		
HIGHLAND		ILLINOIS FED. AID PROJECT		

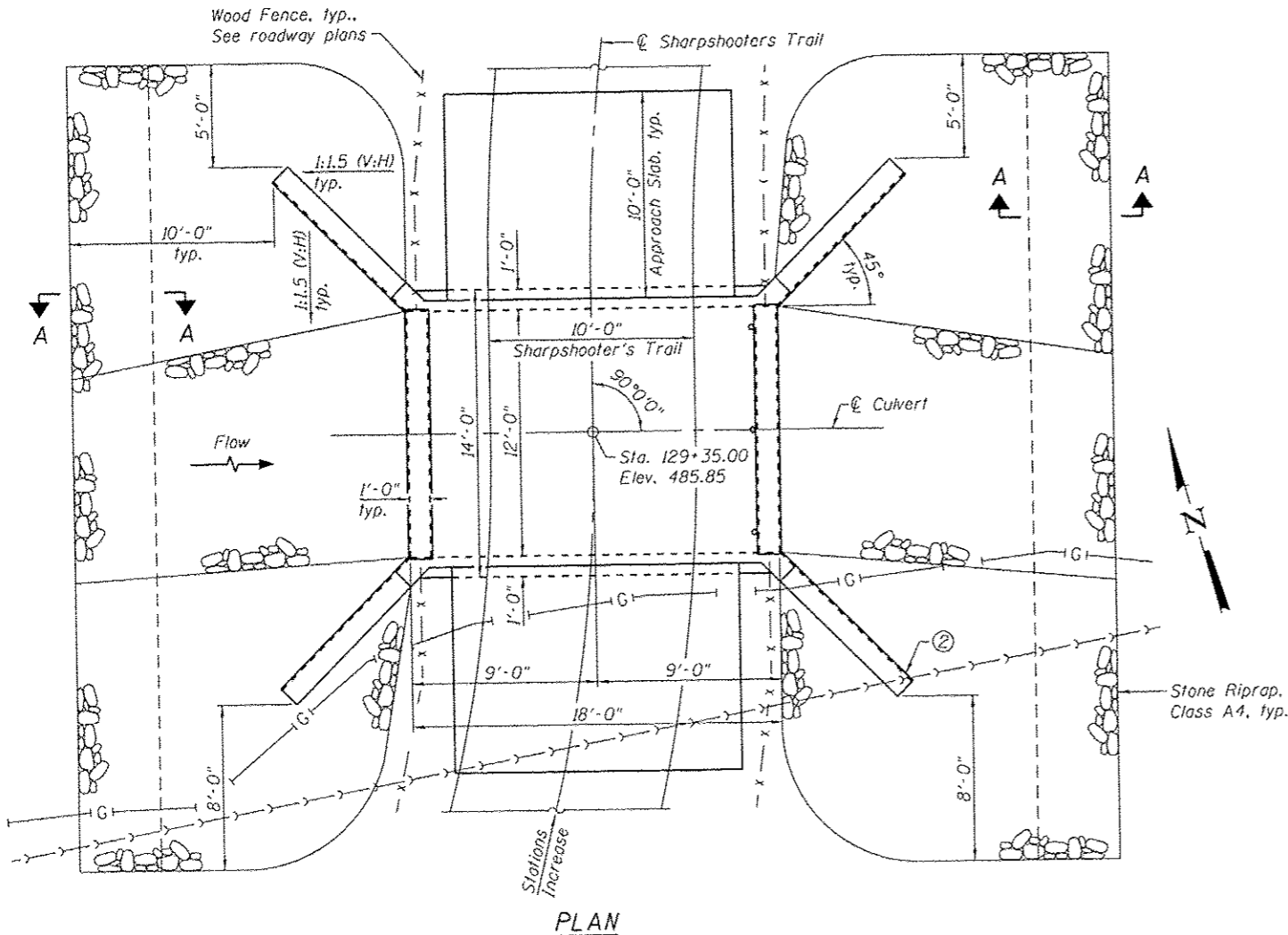


Benchmark: BM F. Benchtie in 6' tall power pole north of Sharpshooters Trail, Sta. 129+55.9, 120.3' LT., Elev. 489.57

Existing Structure: None



LONGITUDINAL SECTION



PLAN

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.  
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.  
 Precast alternate is not allowed.  
 For horizontal curve data, see Roadway plans.  
 The top of the top slab of the box culvert and the approach slabs shall be given a broom finish. The broom shall be drawn across the concrete parallel to the Culvert with adjacent strokes slightly overlapping, producing a uniform, slightly roughened surface with parallel broom marks.

**WATERWAY INFORMATION**

Drainage Area = 2.0 sq. mi. Existing Low Grade Elev. N/A  
 Proposed Low Grade Elev. 485.6 at Sta. 128+75

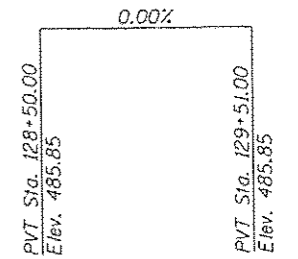
Flood	Freq. Yr.	0 C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.
			Exist. Prop.	Exist. Prop.	Exist. Prop.	Exist. Prop.
Design/OT	<10	950	N/A	84	486.9	N/A
	30	1,300	N/A	84	487.7	N/A
	50	1,380	N/A	84	487.9	N/A
Base	100	1,900	N/A	84	488.5	N/A
Max. Calc.	500	2,190	N/A	84	489.1	N/A

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	35
Stone Riprap, Class A4	Sq. Yd.	152
Filter Fabric	Sq. Yd.	152
Structure Excavation	Cu. Yd.	105
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	17
Rubbed Finish	Sq. Ft.	132
Form Liner Textured Surface	Sq. Ft.	372
Reinforcement Bars, Epoxy Coated	Pound	7,900
Concrete Box Culverts	Cu. Yd.	47.4
Porous Granular Embankment, Special	Cu. Yd.	17

**INDEX OF SHEETS**

Sheet No.	Description
1	General Plan & Elevation
2-3	Culvert Details



**PROFILE GRADE**

(along trail)

**DESIGN SPECIFICATIONS**  
 2014 AASHTO LFRD Bridge Design Specifications, 7th Edition

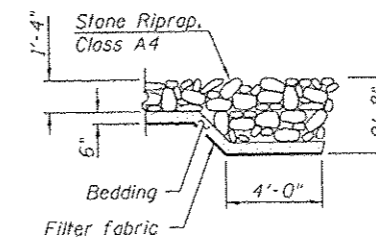
**DESIGN STRESSES**

**FIELD UNITS**

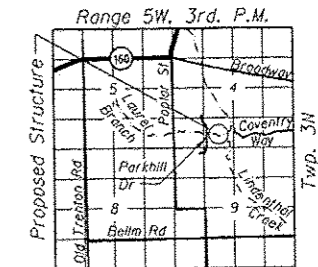
$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)

**LOADING HIO**

Allow 25#/sq. ft. for future wearing surface.



SECTION A-A



LOCATION SKETCH

**Notes:**

- The ground below the box shall be removed as shown. The removal shall extend to 2' beyond each side of the culvert walls. Removal shall be paid for as Removal and Disposal of Unsuitable Material for Structures. Backfill shall be paid for as Porous Granular Embankment, Special, see special provisions.
- Accommodate for sanitary sewer line as directed by the Engineer.

I certify that to the best of knowledge, information and belief, this box culvert design is structurally adequate for the design loading shown. The design is an economical one for the style of structure and complies with the requirements of the current AASHTO LFRD Bridge Design Specifications.

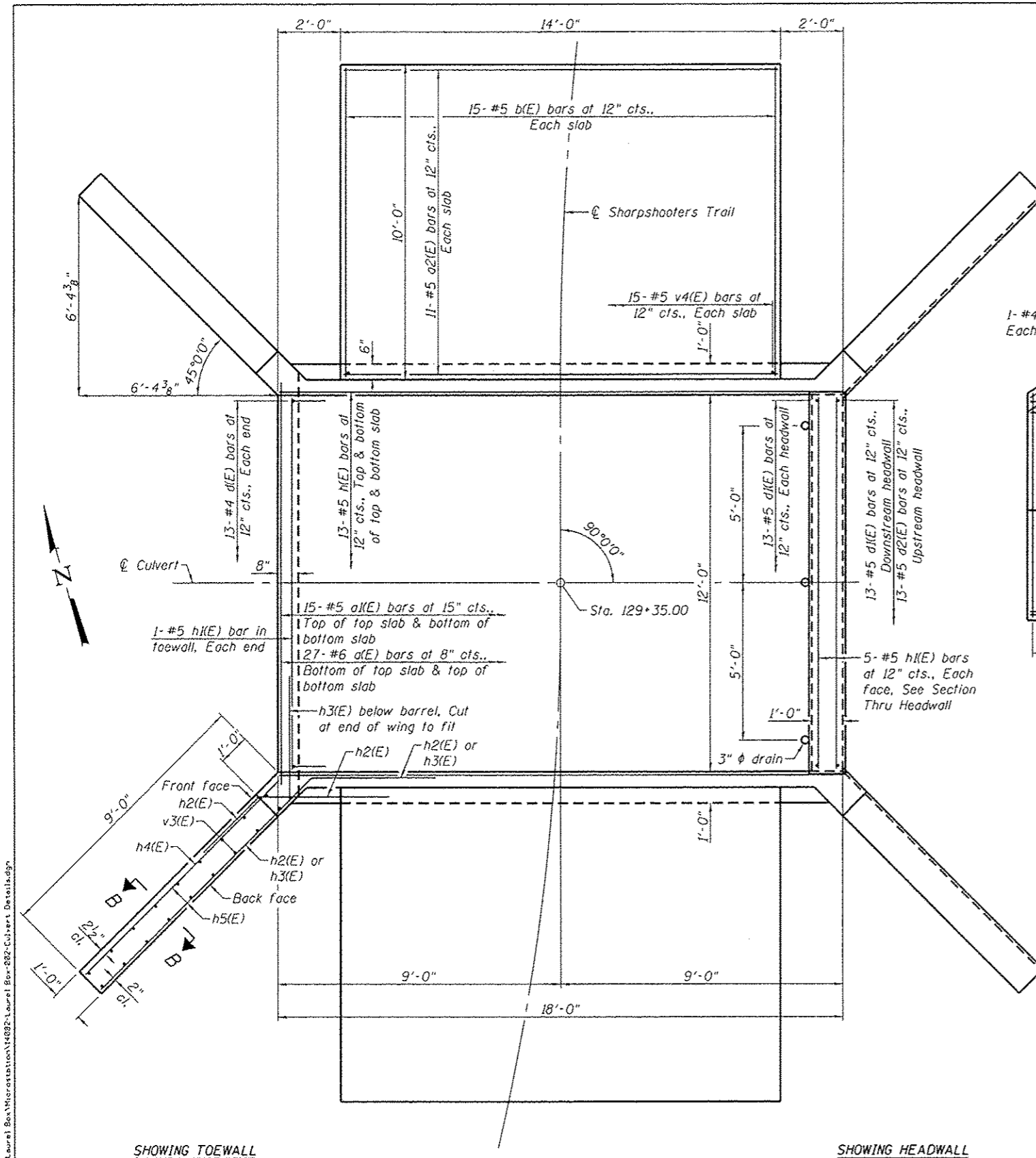
Professional Engineer Seal for Daniel George Lutz, State of Illinois, License No. 081 006772. Signature of Daniel D. Lutz. Date: 5/11/2016. Expiration: 1/30/2016.

**GENERAL PLAN & ELEVATION**  
**SHARPSHOOTERS TRAIL**  
**OVER LAUREL BRANCH**  
**SEC. 14-00068-00-BT**  
**MADISON COUNTY**  
**STATION 129+35.00**

USER NAME	DESIGNED	REVISIONS
JAD	JAD	
KBC	KBC	
JAD	JAD	
KBC	KBC	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	31

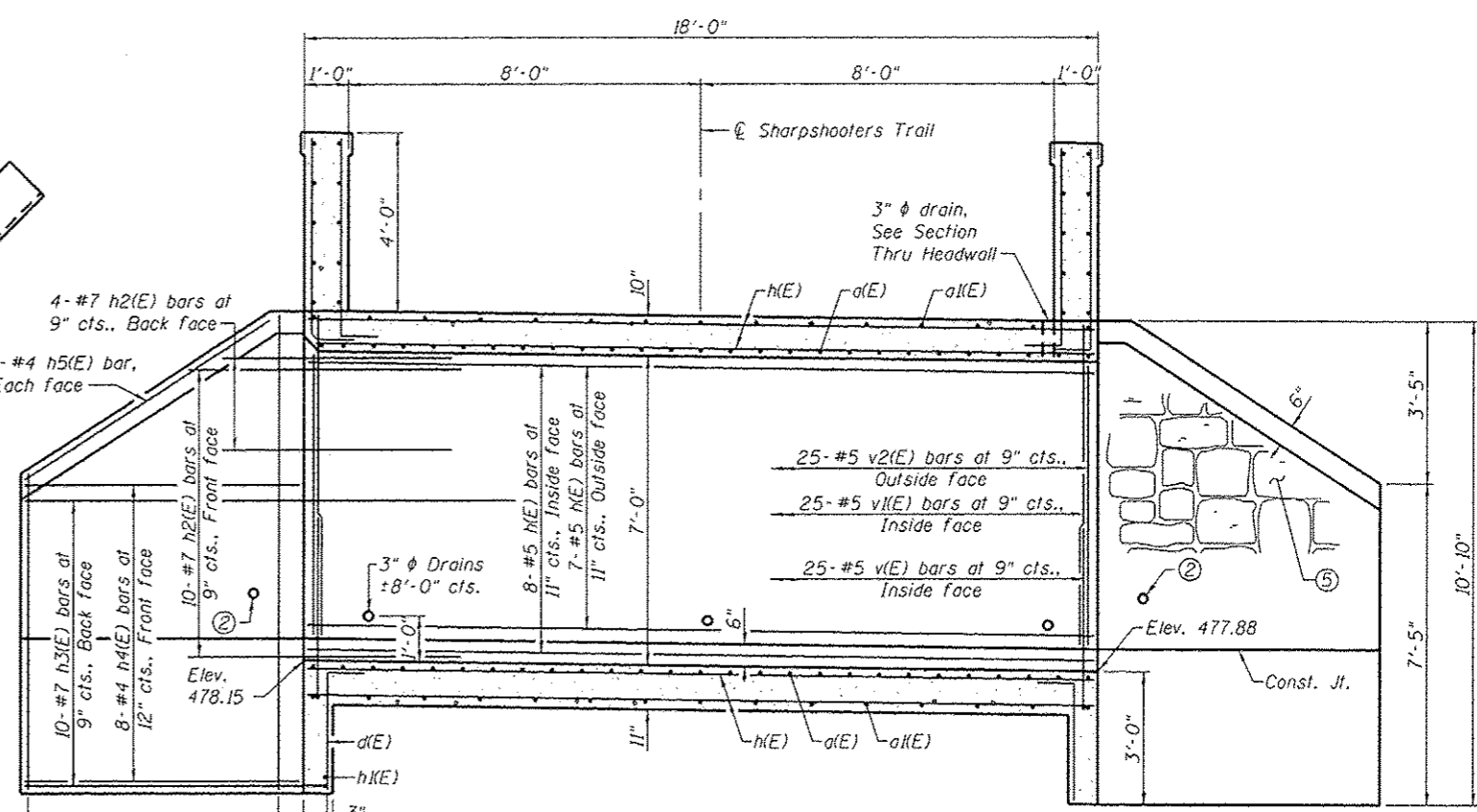
SHARPSHOOTERS BIKE TRAIL CONST. CONTRACT NO. 97627  
 HIGHLAND ILLINOIS FED. AID PROJECT



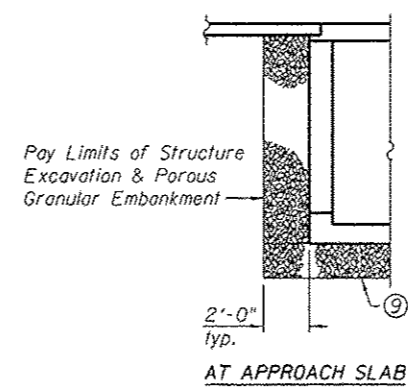
SHOWING TOEWALL

SHOWING HEADWALL

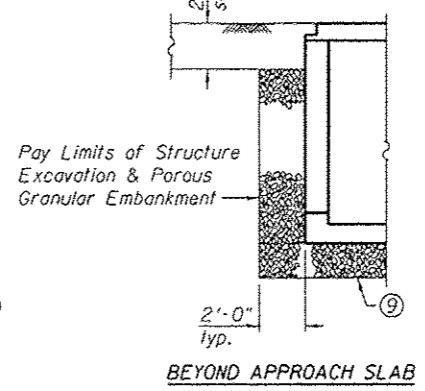
PLAN ③



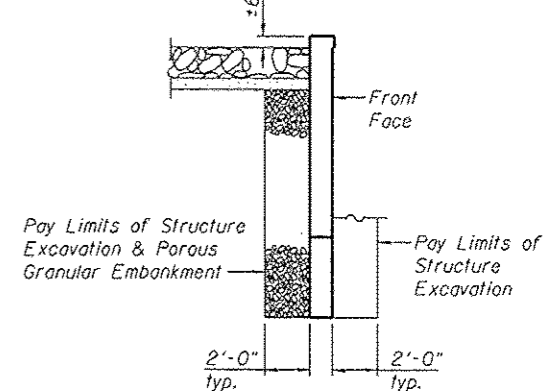
LONGITUDINAL SECTION



SECTION AT SIDEWALL OF BARREL ④



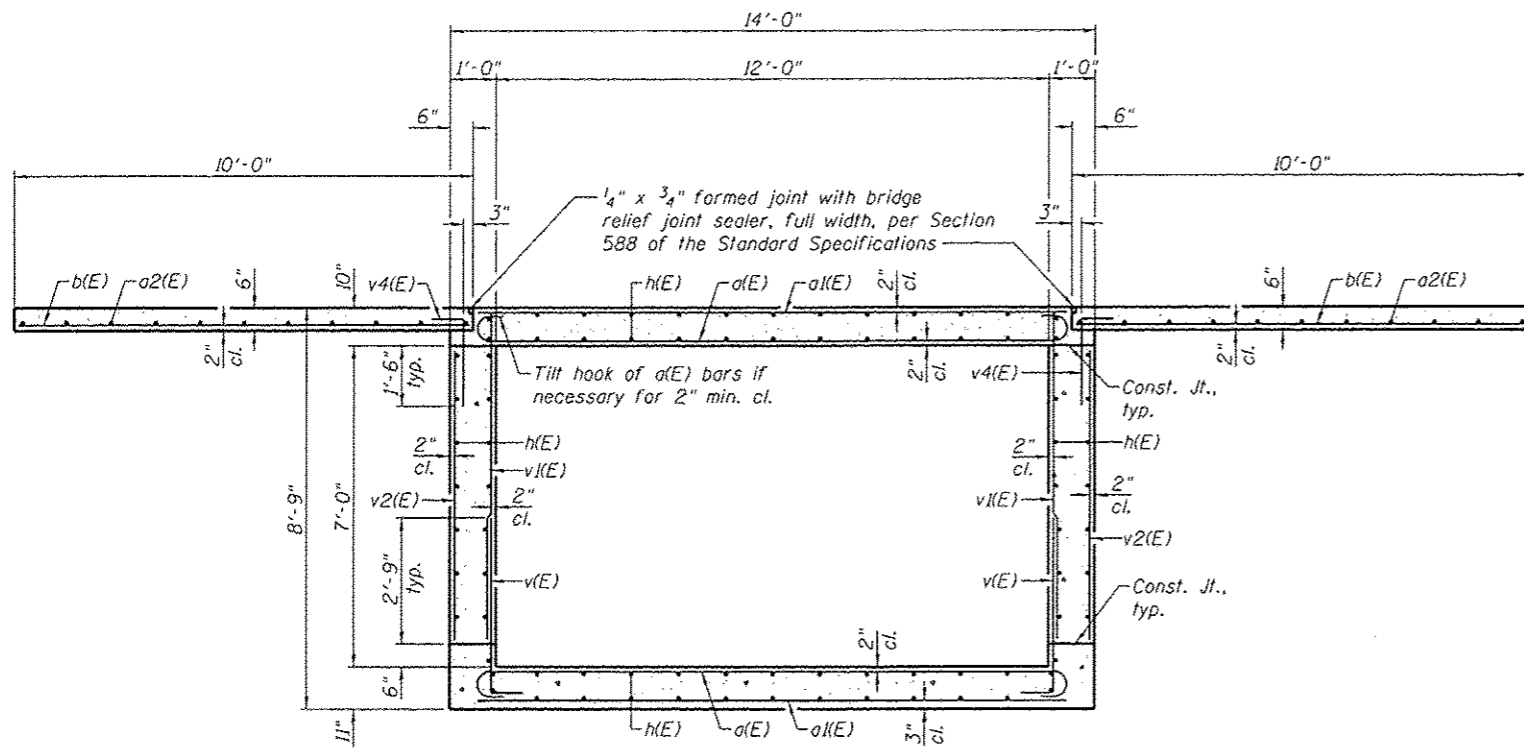
BEYOND APPROACH SLAB



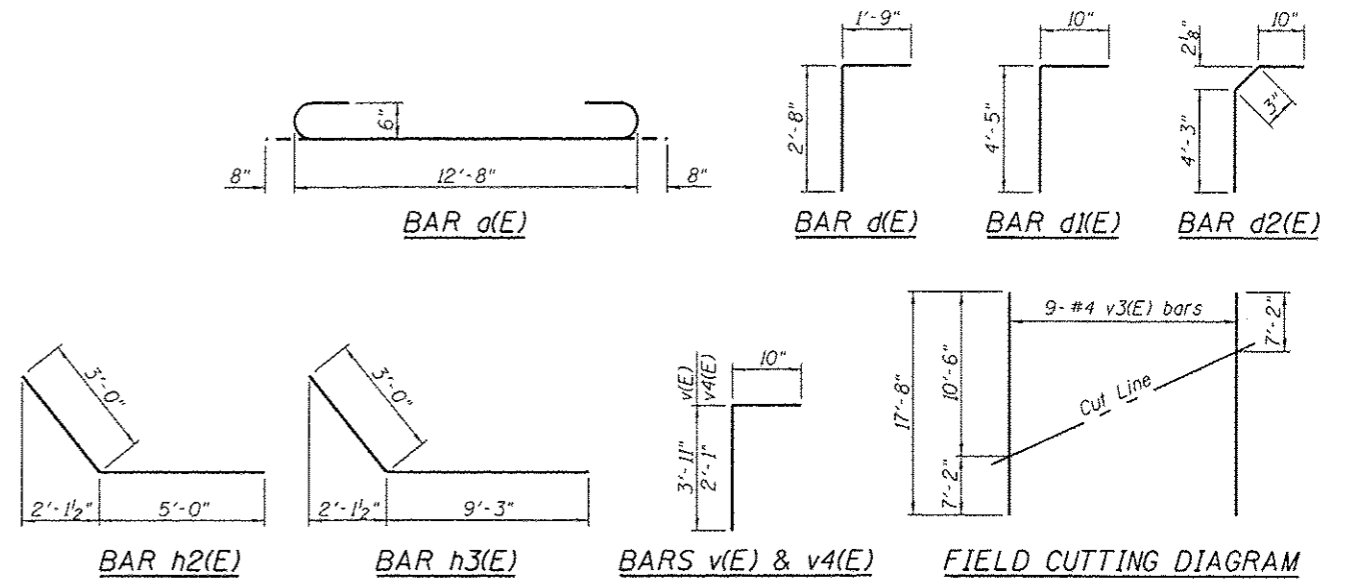
SECTION THRU WINGWALL ⑤

- Notes:
- ① A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
  - ② 3"  $\phi$  drains in wingwalls shall be placed  $\pm 1'-0"$  above finished ground at front face of wall.
  - ③ Approach slab dimensions and reinforcement similar each end.
  - ④ Over excavation beyond the limits of Structure Excavation shall not be measured for payment. Over excavation shall be backfilled according to Section 205 or 207 of the Standard Specifications. Backfill for over excavation shall not be measured for payment.
  - ⑤ For limits of Form Liner Textured Surface, see sheet 3 of 3.
  - ⑥ See Field Cutting Diagram on sheet 3 of 3.
  - ⑦ For Section Thru Headwall, Section B-B, Section Thru Barrel, bar details, and Bill of Material, see sheet 3 of 3.
  - ⑧ Approach slab concrete is included in the quantity for Concrete Box Culverts.
  - ⑨ For details of removal and replacement of ground below box, see sheet 1 of 3.

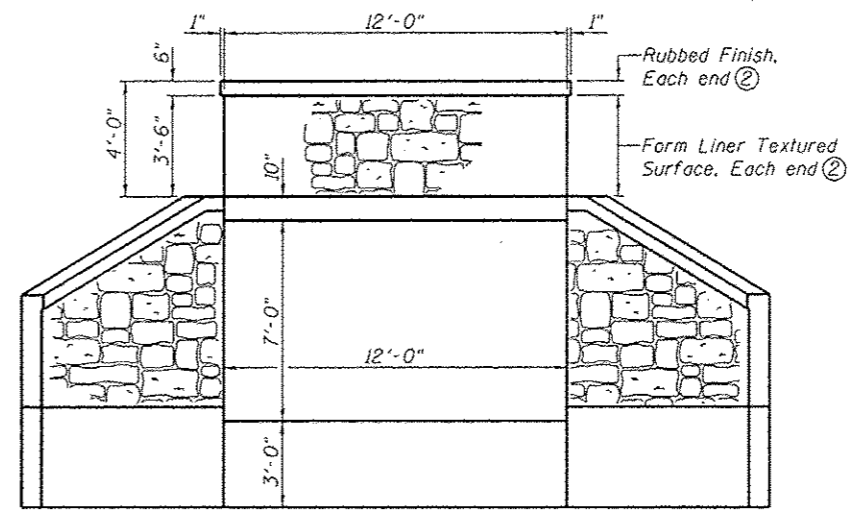




SECTION THRU BARREL



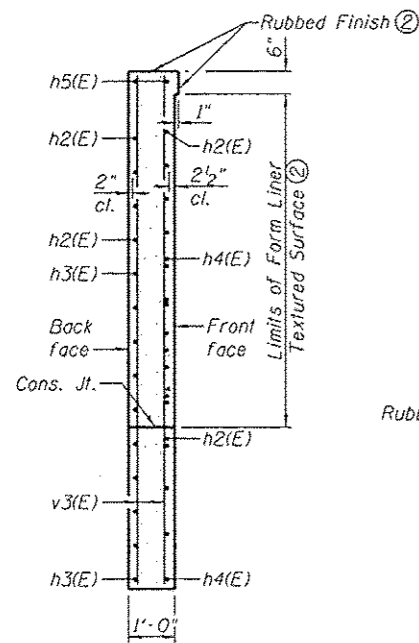
FIELD CUTTING DIAGRAM  
Order v3(E) bars full length. Cut as shown and use remainder of bars in opposite face.



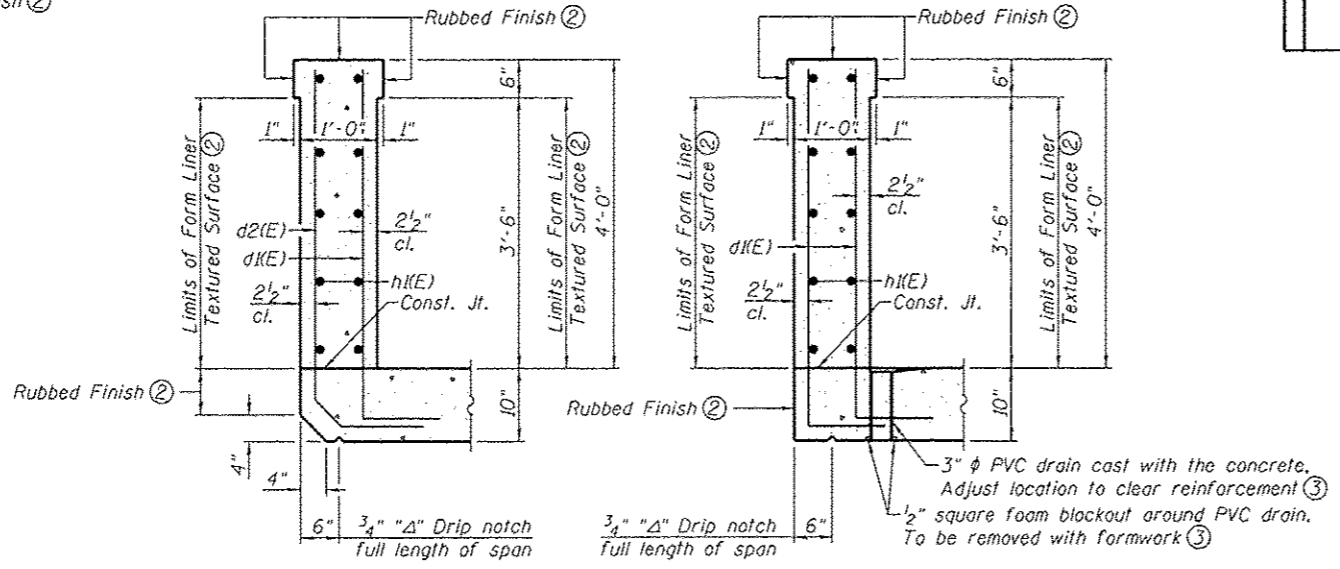
END VIEW

BILL OF MATERIAL

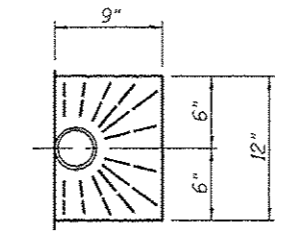
Bar	No.	Size	Length	Shape
a(E)	54	#6	14'-0"	U
a1(E)	30	#5	12'-8"	U
a2(E)	22	#5	13'-8"	U
b(E)	30	#5	10'-0"	U
c(E)	26	#4	4'-5"	U
d(E)	39	#5	5'-3"	U
d2(E)	13	#5	5'-4"	U
e(E)	82	#5	17'-8"	U
h(E)	22	#5	11'-8"	U
h2(E)	56	#7	8'-0"	U
h3(E)	40	#7	12'-3"	U
h4(E)	32	#4	8'-8"	U
h5(E)	8	#4	8'-4"	U
v(E)	50	#5	4'-9"	U
v1(E)	50	#5	7'-0"	U
v2(E)	50	#5	6'-2"	U
v3(E)	36	#4	17'-8"	U
v4(E)	30	#5	2'-11"	U
Rubbed Finish			Sq. Ft.	132
Form Liner Textured Surface			Sq. Ft.	372
Reinforcement Bars, Epoxy Coated			Pound	7,900
Concrete Box Culverts			Cu. Yd.	47.4



SECTION B-B



SECTION THRU HEADWALL



TOP PLAN AT DRAIN

- Notes:
- At the Contractor's option, a longer v(E) bar may be ordered to replace the v1(E) bar. No reduction in quantities shall be made for this substitution.
  - Form Liner Textured Surface and Rubbed Finish shall extend the full length of the wingwalls and headwalls on the face shown and full width on the ends of the headwall. For additional requirements of Form Liner Textured Surface, see Special Provisions.
  - All costs associated with furnishing and constructing the drain shall be included in the cost of Concrete Box Culverts. For drain spacing, see sheet 2 of 3.

FILE NAME: H:\P\1482\Structural\Final Plans\Level Box\Microstation\1482-Label Box-883-Culvert-Details.dgn



USER NAME *	DESIGNED - JAD	REVISED -
PLOT SCALE *	CHECKED - KBC	REVISED -
PLOT DATE *	DRAWN - JAD	REVISED -
	CHECKED - KBC	REVISED -

DESIGNED - JAD	REVISED -
CHECKED - KBC	REVISED -
DRAWN - JAD	REVISED -
CHECKED - KBC	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS  
SHARPSHOOTERS TRAIL OVER LAUREL BRANCH  
SHEET NO. 3 OF 3 SHEETS

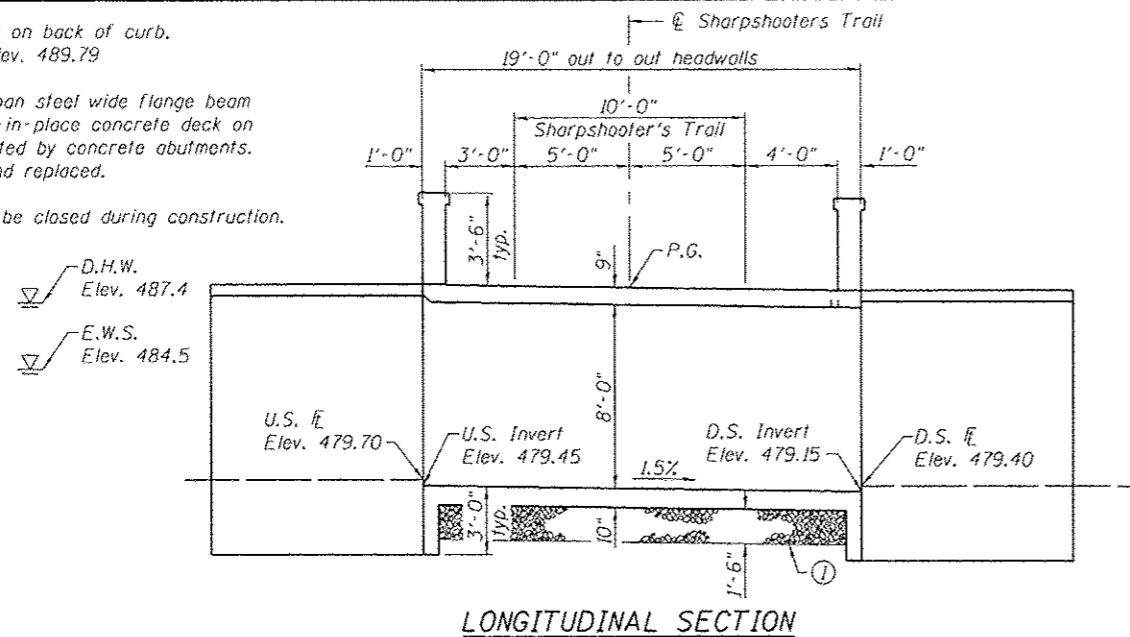
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	33
SHARPSHOOTERS BIKE TRAIL CONST.		CONTRACT NO. 97627		
HIGHLAND		ILLINOIS FED. AID PROJECT		

Benchmark: BM G, Cul square on back of curb.  
Sta. 136+70.0, 8.9' LT., Elev. 489.79

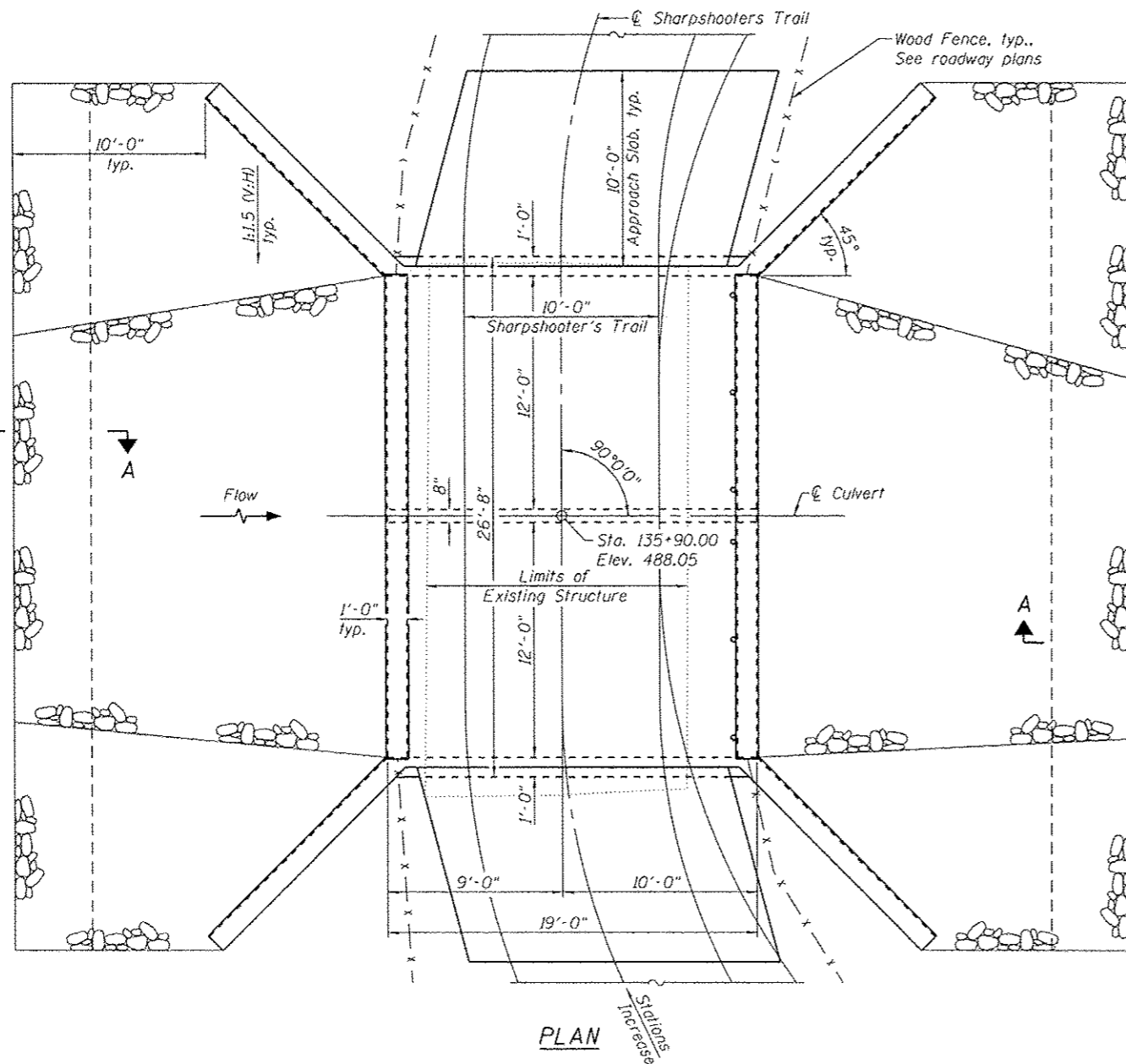
Existing Structure: Single span steel wide flange beam superstructure with a cast-in-place concrete deck on stay in place forms supported by concrete abutments. Structure to be removed and replaced.

Traffic Control: Structure to be closed during construction.

Salvage: None



LONGITUDINAL SECTION



PLAN

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.

Precast alternate is not allowed.

For horizontal curve data, see Roadway plans.

The top of the top slab of the box culvert and the approach slabs shall be given a broom finish. The broom shall be drawn across the concrete parallel to the culvert with adjacent strokes slightly overlapping, producing a uniform, slightly roughened surface with parallel broom marks.

**WATERWAY INFORMATION**

Drainage Area = 3.3 sq. mi.		Existing Low Grade Elev. 487.3 at Sta. 135+72.5 Proposed Low Grade Elev. 488.0 at Sta. 135+72.5							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
Design/Ex. OT	<10	1,060	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Pr. OT	30	1,530	150	192	487.4	0.1	0.0	487.5	
Base	50	1,740	150	192	488.3	0.1	0.0	488.4	
Max. Calc.	100	2,050	150	192	488.8	0.1	0.0	488.9	
	500	2,820	150	192	489.4	0.0	0.0	489.4	

**TOTAL BILL OF MATERIAL**

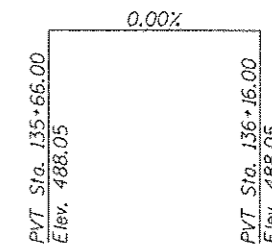
ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	57
Stone Riprap, Class A4	Sq. Yd.	183
Filter Fabric	Sq. Yd.	183
Removal of Existing Structures No. 2	Each	1
Structure Excavation	Cu. Yd.	180
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	30
Rubbed Finish	Sq. Ft.	221
Form Liner Textured Surface	Sq. Ft.	762
Reinforcement Bars, Epoxy Coated	Pound	18,510
Concrete Box Culverts	Cu. Yd.	82.6
Porous Granular Embankment, Special	Cu. Yd.	30

**INDEX OF SHEETS**

Sheet No.	Description
1	General Plan & Elevation
2-3	Culvert Details

Notes:

① The ground below the box shall be removed as shown. The removal shall extend to 2' beyond each side of the culvert walls. Removal shall be paid for as Removal and Disposal of Unsuitable Material for Structures. Backfill shall be paid for as Porous Granular Embankment, Special, see special provisions.



**PROFILE GRADE**

(along centerline of trail)

**DESIGN SPECIFICATIONS**

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition

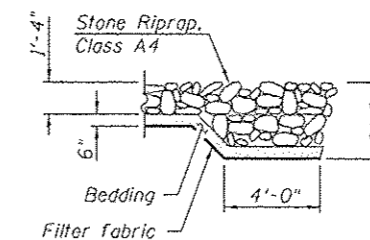
**DESIGN STRESSES**

**FIELD UNITS**

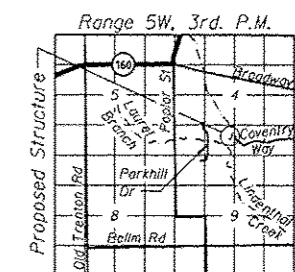
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)

**LOADING HIO**

Allow 25#/sq. ft. for future wearing surface.



SECTION A-A



LOCATION SKETCH

**GENERAL PLAN & ELEVATION**

**SHARPSHOOTERS TRAIL  
OVER LINDENTHAL CREEK**

**SEC. 14-00068-00-BT**

**MADISON COUNTY**

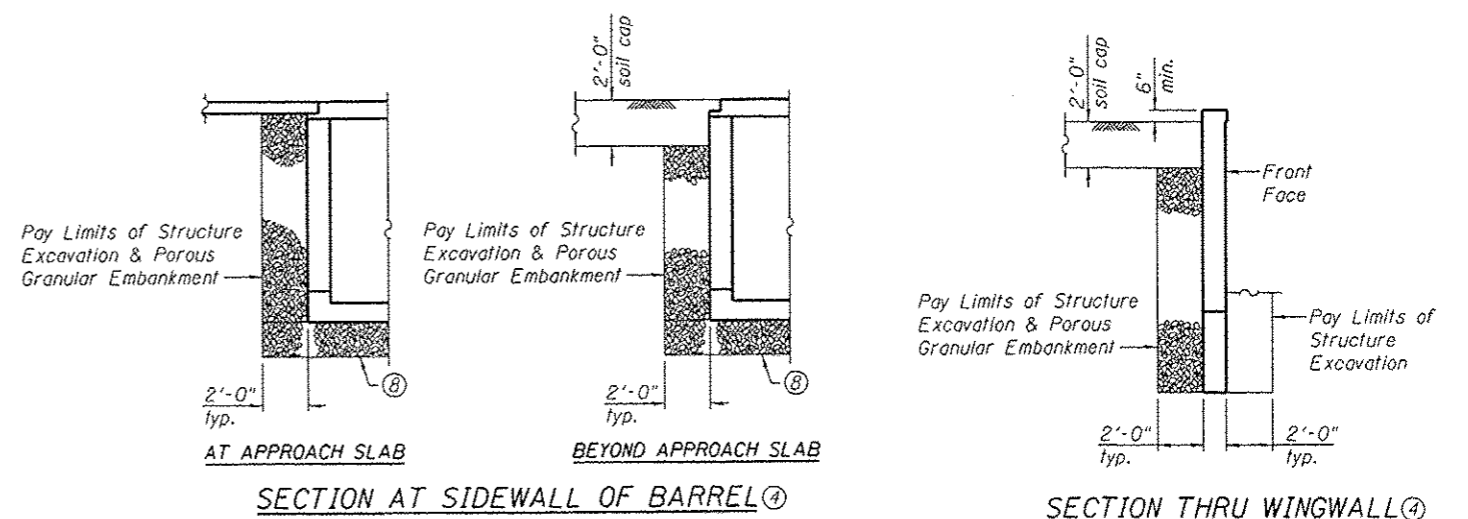
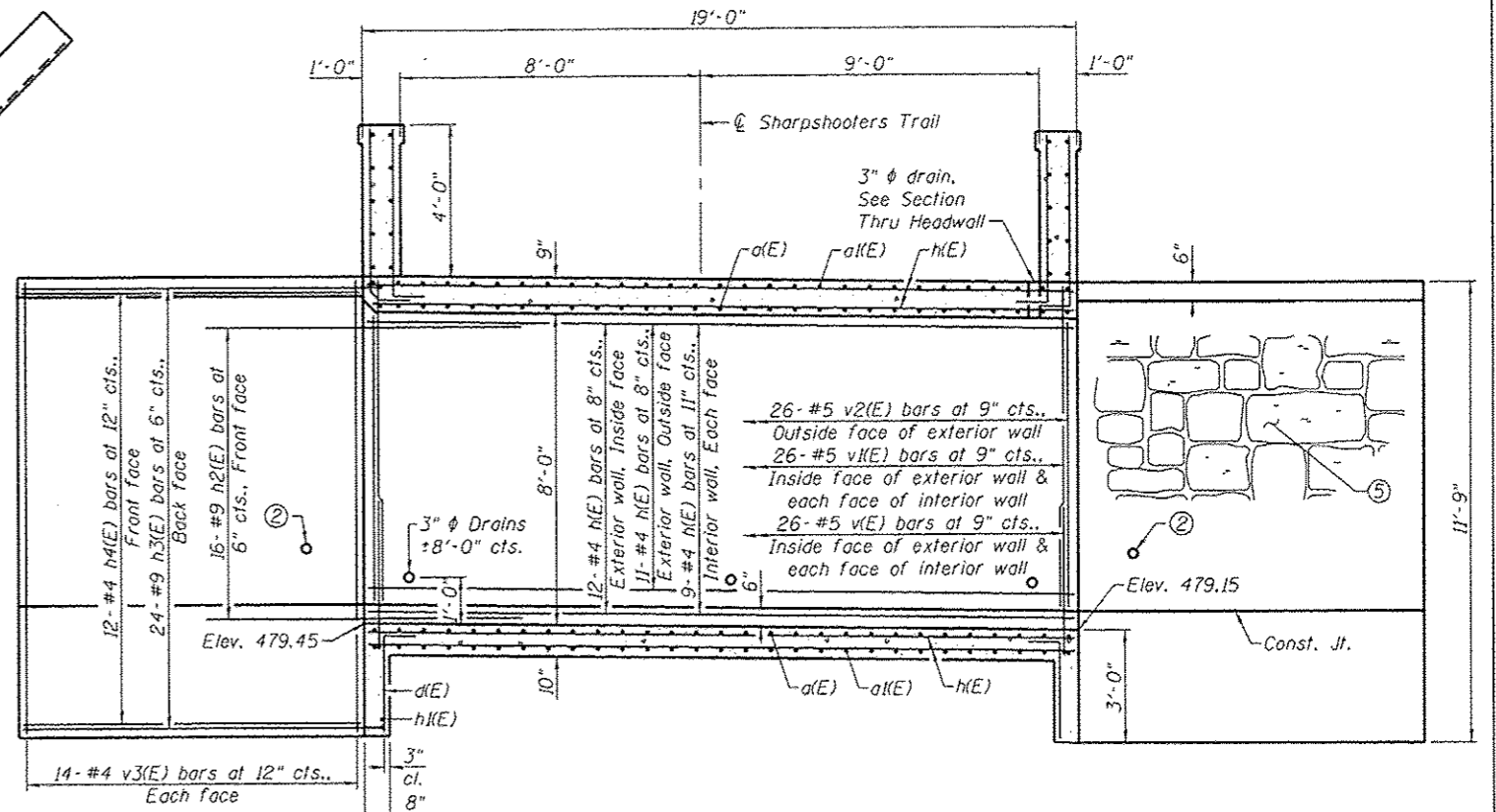
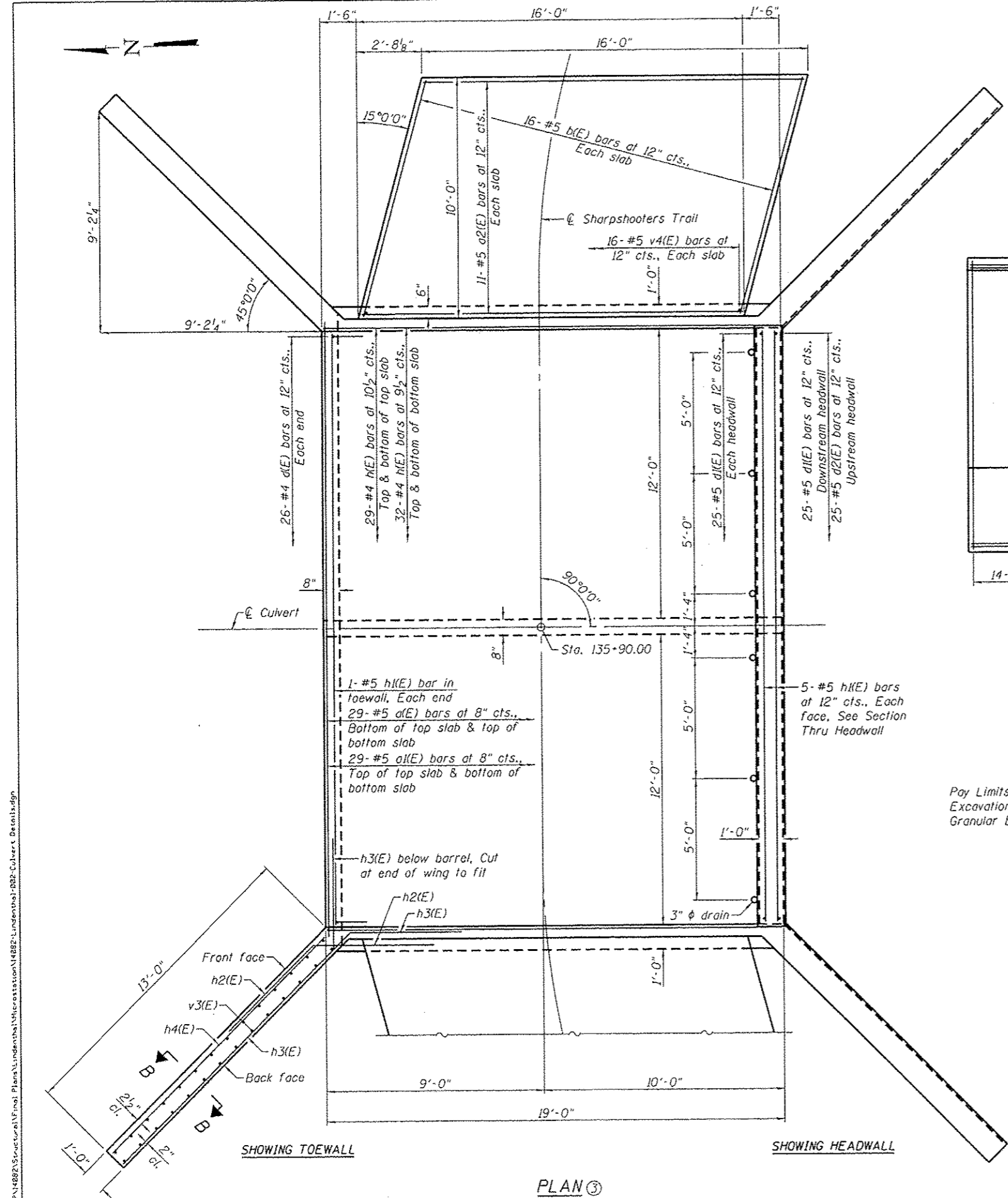
**STATION 135+90.00**

I certify that to the best of knowledge, information and belief, this box culvert design is structurally adequate for the design loading shown. The design is an economical one for the style of structure and complies with the requirements of the current AASHTO LRFD Bridge Design Specifications.

Professional Engineer Seal for Daniel George Lutz, License No. 081 006772, State of Illinois. Includes signature and date: 5/11/2016, Expiration: 11/30/2016.

USER NAME	DESIGNED	REVISIONS
KBC	KBC	
JAD	JAD	
JAD	JAD	
KBC	KBC	

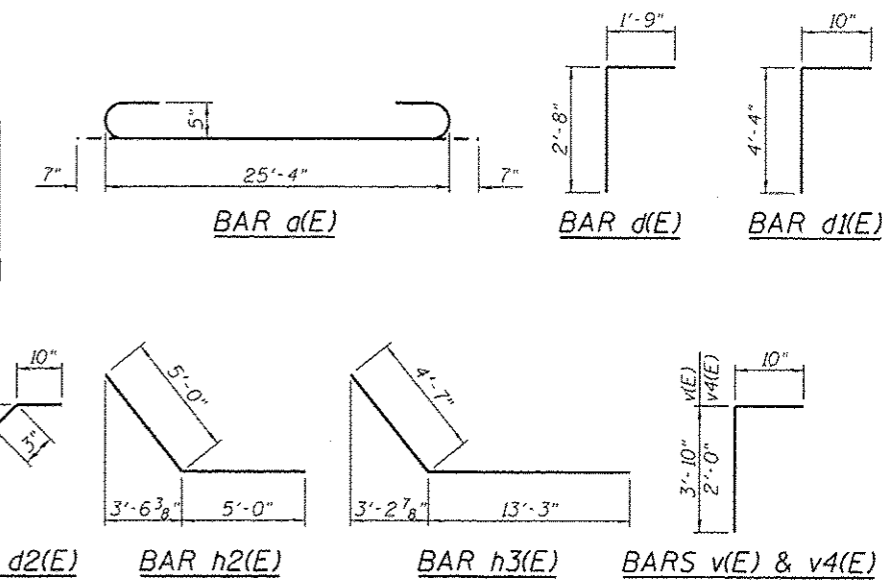
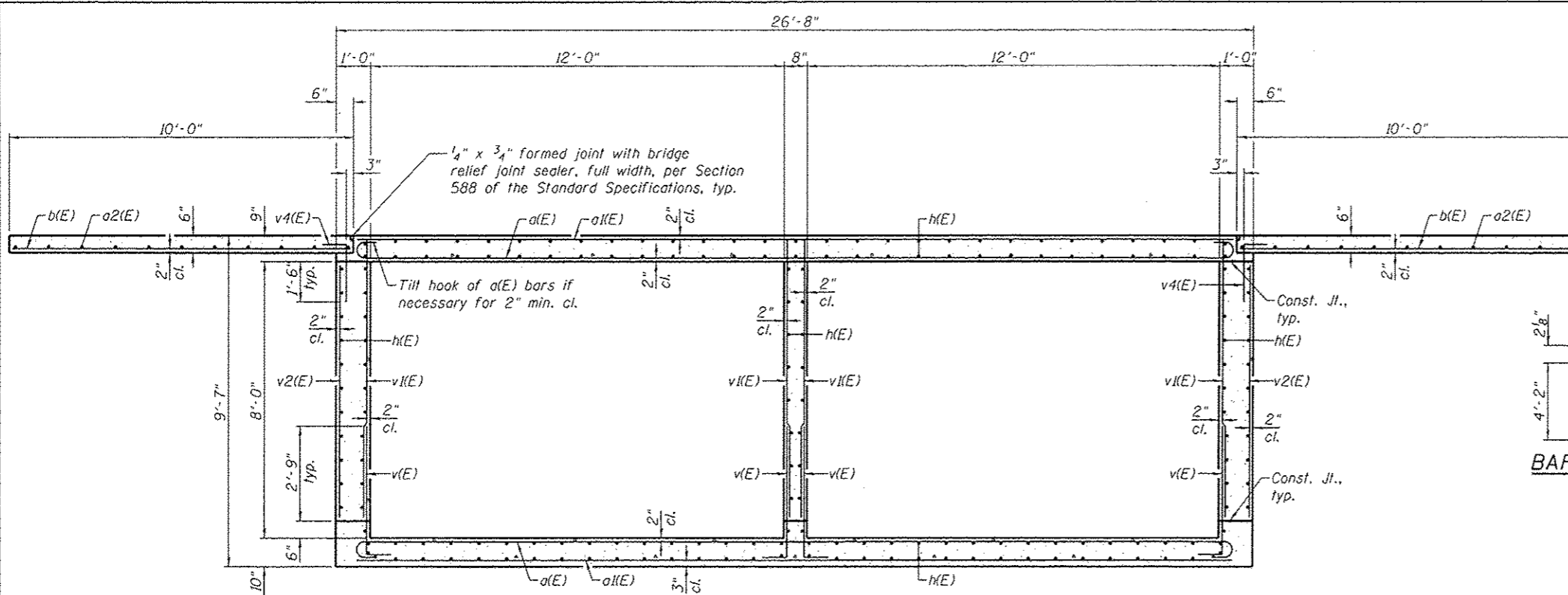
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	34
SHARPSHOOTERS TRAIL CONST.		CONTRACT NO. 97627		
HIGHLAND	ILLINOIS FED. AID PROJECT			



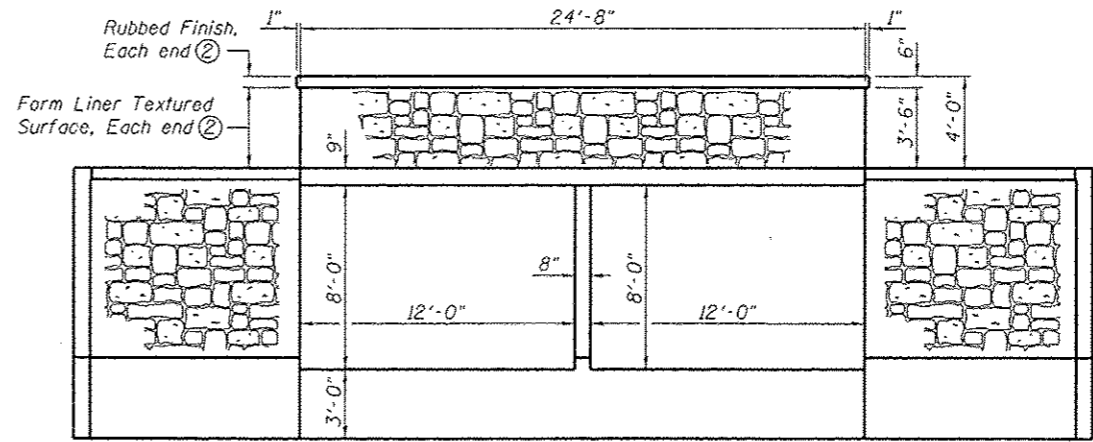
- Notes:
- ① A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
  - ② 3"  $\phi$  drains in wingwalls shall be placed 1'-0" above finished ground at front face of wall.
  - ③ Approach slab dimensions and reinforcement similar each end.
  - ④ Over excavation beyond the limits of Structure Excavation shall not be measured for payment. Over excavation shall be backfilled according to Section 205 or 207 of the Standard Specifications. Backfill for over excavation shall not be measured for payment.
  - ⑤ For limits of Form Liner Textured Surface, see sheet 3 of 3.
  - ⑥ For Section Thru Headwall, Section B-B, Section Thru Barrel, bar details, and Bill of Material, see sheet 3 of 3.
  - ⑦ Approach slab concrete is included in the quantity for Concrete Box Culverts.
  - ⑧ For details of removal and replacement of ground below box, see sheet 1 of 3.

USER NAME *	DESIGNED - KBC	REVISIONS
CHECKED - JAD	REVISIONS	
PLOT SCALE *	DRAWN - JAD	REVISIONS
PLOT DATE *	CHECKED - KBC	REVISIONS
5/12/2016		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	35
SHARPSHOOTERS BIKE TRAIL CONST.		CONTRACT NO. 97627		
HIGHLAND		ILLINOIS FED. AID PROJECT		



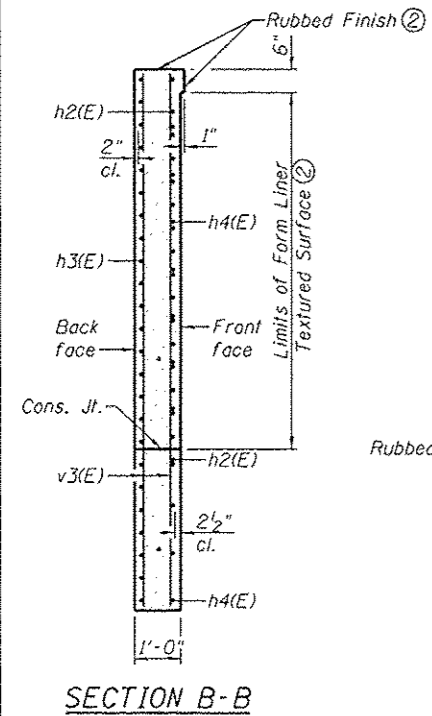
SECTION THRU BARREL



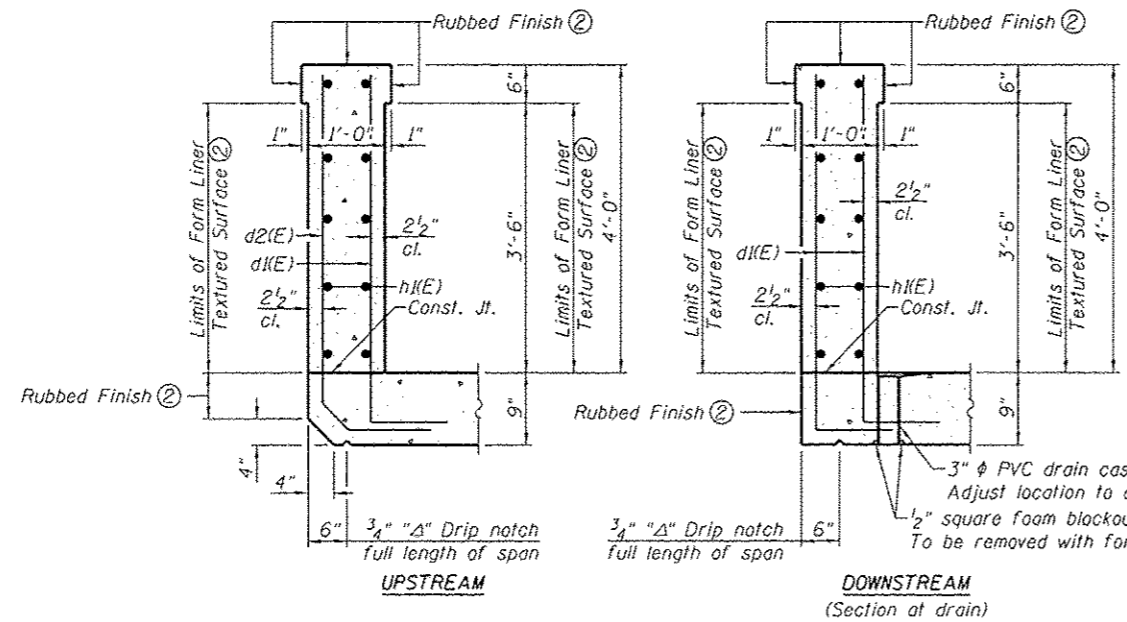
END VIEW

BILL OF MATERIAL

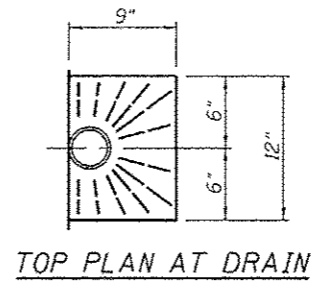
Bar	No.	Size	Length	Shape
a(E)	58	#5	26'-6"	U
a1(E)	58	#5	25'-4"	U
a2(E)	22	#5	15'-8"	U
b(E)	32	#5	10'-0"	U
c(E)	52	#4	4'-5"	U
d(E)	75	#5	5'-2"	U
d2(E)	25	#5	5'-3"	U
h(E)	186	#4	18'-8"	U
h1(E)	22	#5	24'-4"	U
h2(E)	64	#9	10'-0"	U
h3(E)	96	#9	17'-10"	U
h4(E)	48	#4	12'-8"	U
v(E)	104	#5	4'-8"	U
v1(E)	104	#5	7'-11"	U
v2(E)	52	#5	7'-2"	U
v3(E)	112	#4	11'-5"	U
v4(E)	32	#5	2'-10"	U
Rubbed Finish		Sq. Ft.	221	
Form Liner Textured Surface		Sq. Ft.	762	
Reinforcement Bars, Epoxy Coated		Pound	18,510	
Concrete Box Culverts		Cu. Yd.	82.6	



SECTION B-B



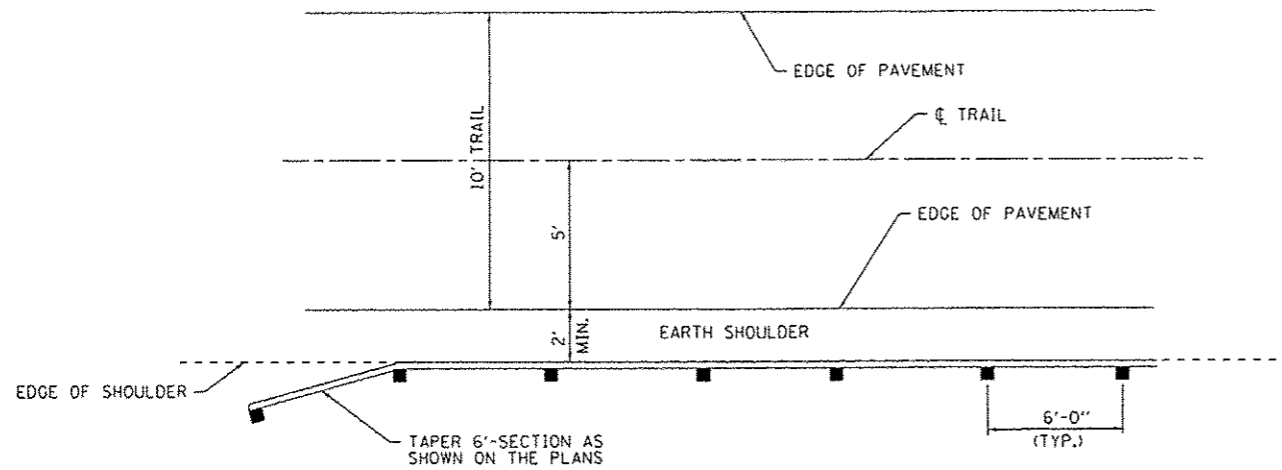
SECTION THRU HEADWALL



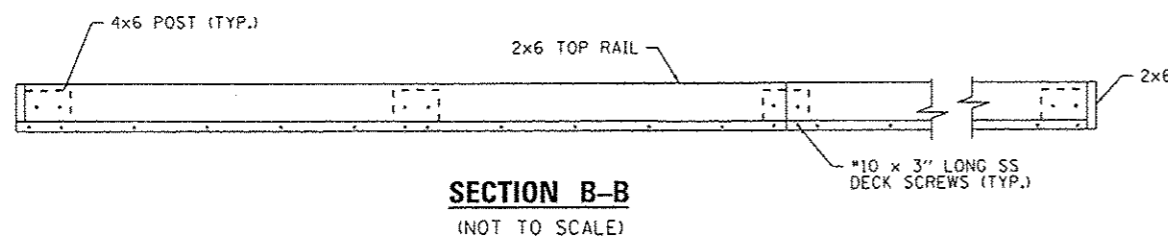
TOP PLAN AT DRAIN

- Notes:
- At the Contractor's option, a longer v(E) bar may be ordered to replace the v1(E) bar. No reduction in quantities shall be made for this substitution.
  - Form Liner Textured Surface and Rubbed Finish shall extend the full length of the wingwalls and headwalls on the face shown. For additional requirements of Form Liner Textured Surface, see Special Provisions.
  - All costs associated with furnishing and constructing the drain shall be included in the cost of Concrete Box Culverts. For drain spacing, see sheet 2 of 3.

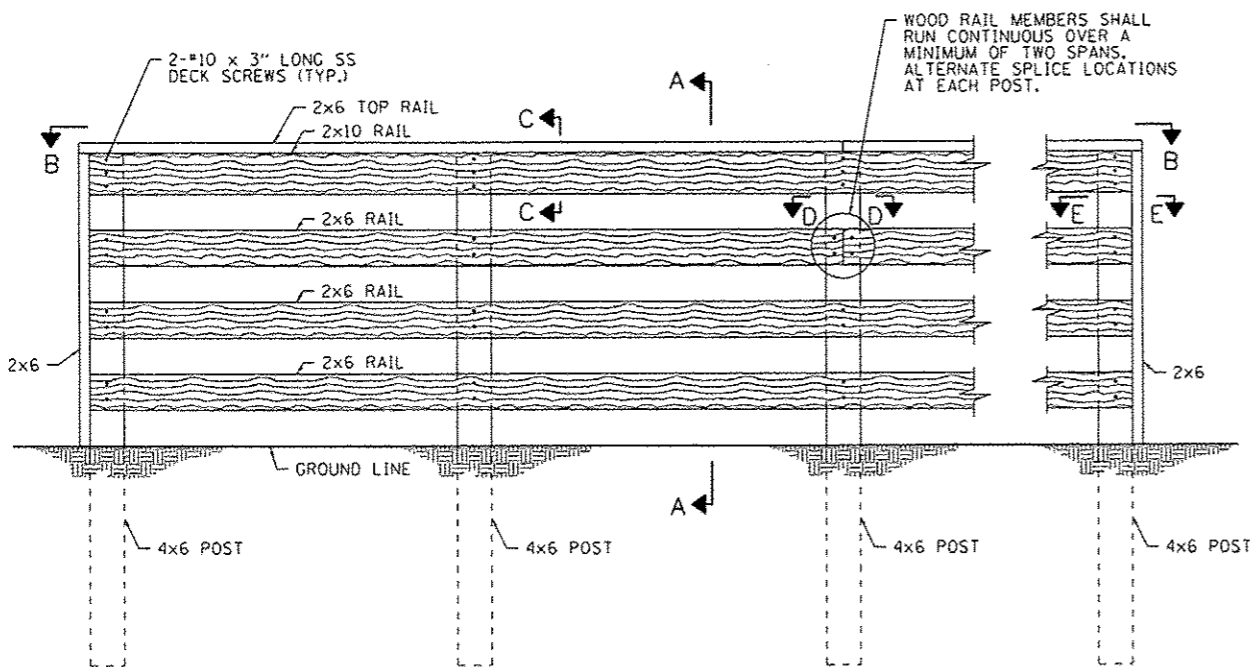
FILE NAME: H:\P\148821\Structural\Final Plans\Lindenthal\Microstation\14882-Lindenthal-8203-Culvert Detail.dgn



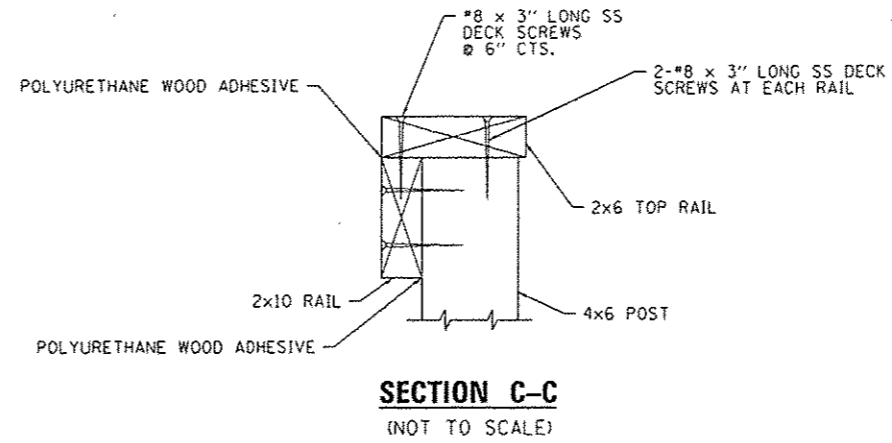
**PLAN**



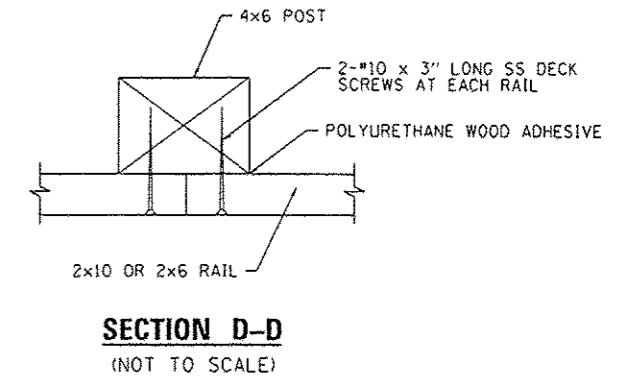
**SECTION B-B**  
(NOT TO SCALE)



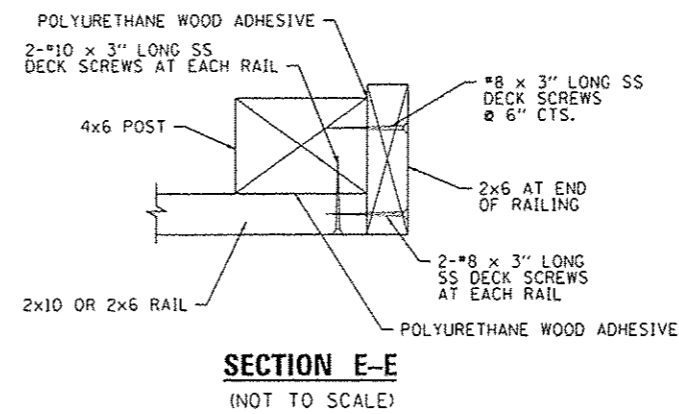
**INSIDE RAIL ELEVATION**



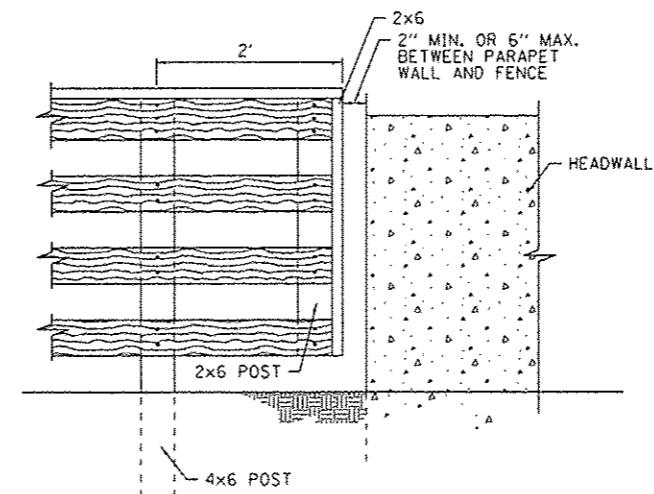
**SECTION C-C**  
(NOT TO SCALE)



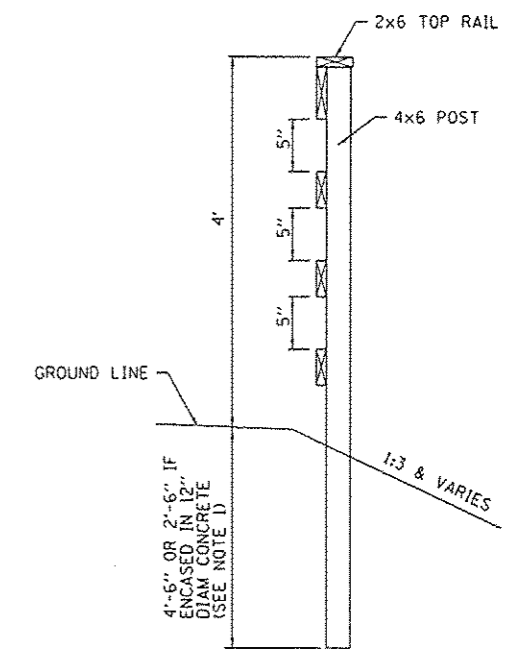
**SECTION D-D**  
(NOT TO SCALE)



**SECTION E-E**  
(NOT TO SCALE)



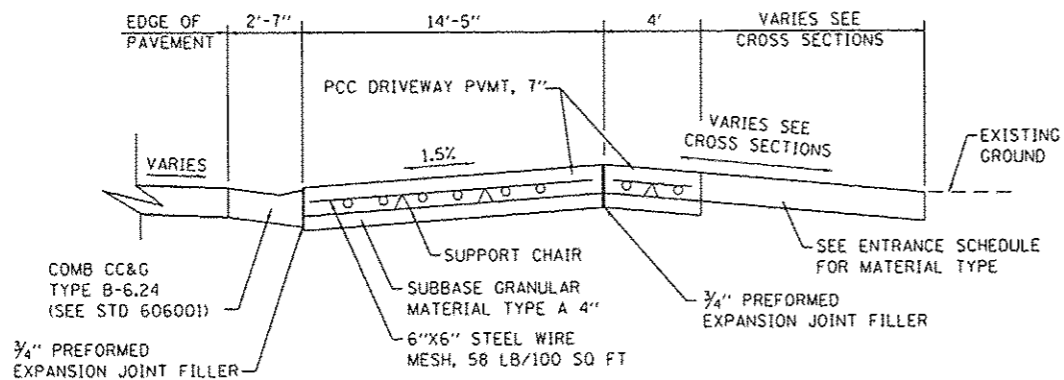
**POST ADJACENT TO HEADWALL**  
(NOT TO SCALE)



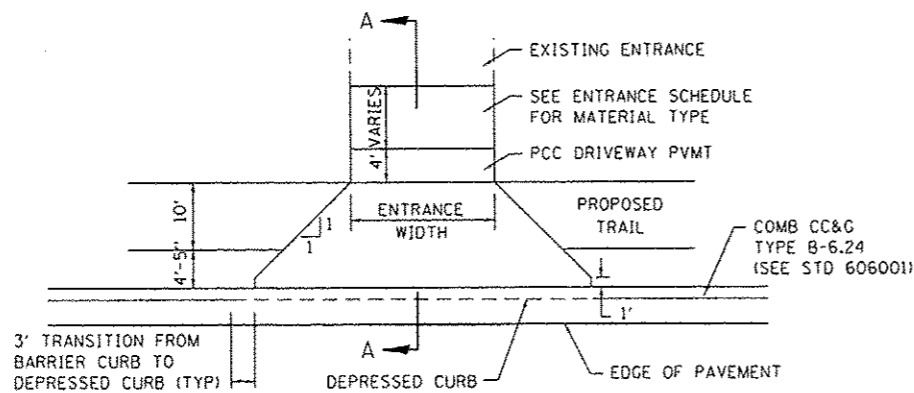
**SECTION A-A**  
(NOT TO SCALE)

NOTE 1: PROPOSED FENCE POSTS MUST BE ENCASED IN CONCRETE IF PLACED ABOVE BOX CULVERT

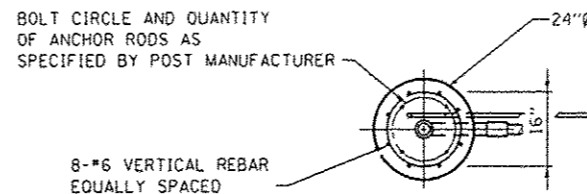
FILE NAME : 0814082-Sht-details.dgn	USER NAME : andy.mueller	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>WOOD FENCE DETAILS</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT TIME : 6:28:47 PM	DRAWN -	REVISED -					8854	14-00068-00-BT	MADISON	61	37
	PLOT SCALE : 40.0000 / 1 in.	CHECKED -	REVISED -		SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.				CONTRACT NO. 97627			
	PLOT DATE : 5/10/2016	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



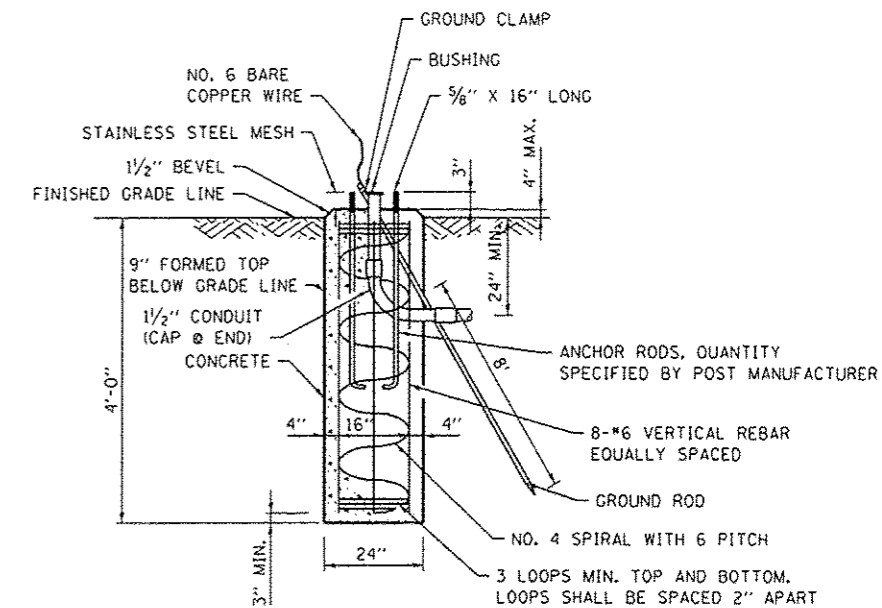
**SECTION A-A**  
(NOT TO SCALE)



**ENTRANCE DETAIL**  
(NOT TO SCALE)



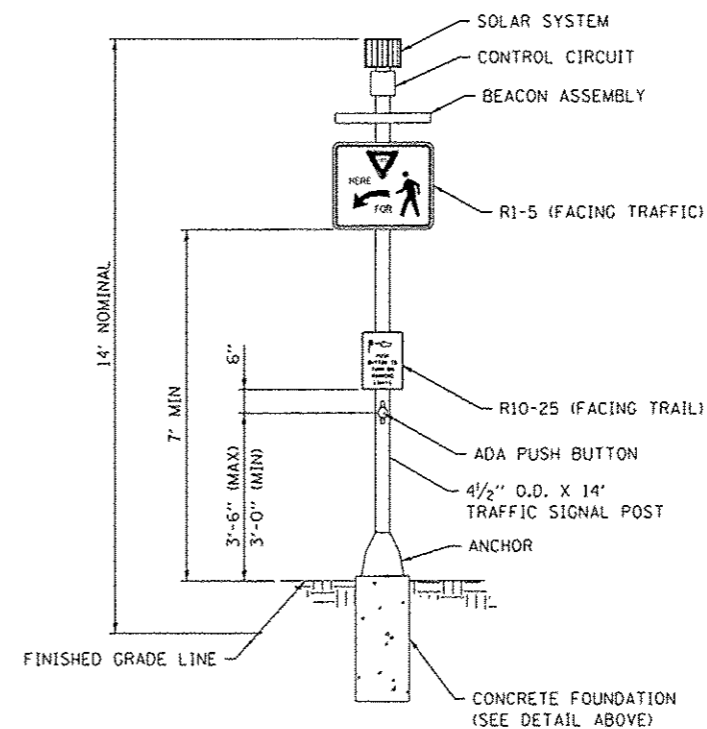
**TOP VIEW**  
(NOT TO SCALE)



**CONCRETE FOUNDATION**  
(NOT TO SCALE)

**NOTES:**

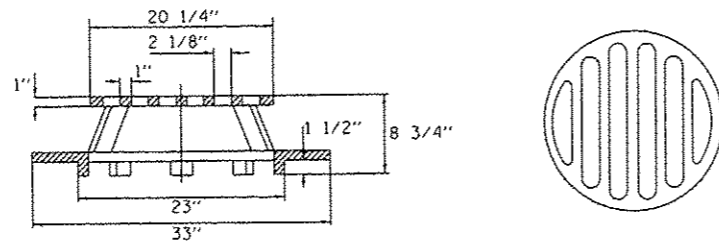
1. SEE SPECIAL PROVISION FOR SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE)
2. CONCRETE FOUNDATIONS, SIGN PANELS, CONTROL CIRCUITS, ETC SHALL BE INCLUDED IN THE COST OF THE ENTIRE ASSEMBLY
3. POST AND FOUNDATION SHALL BE ACCORDING TO ARTICLE 1077.01 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION



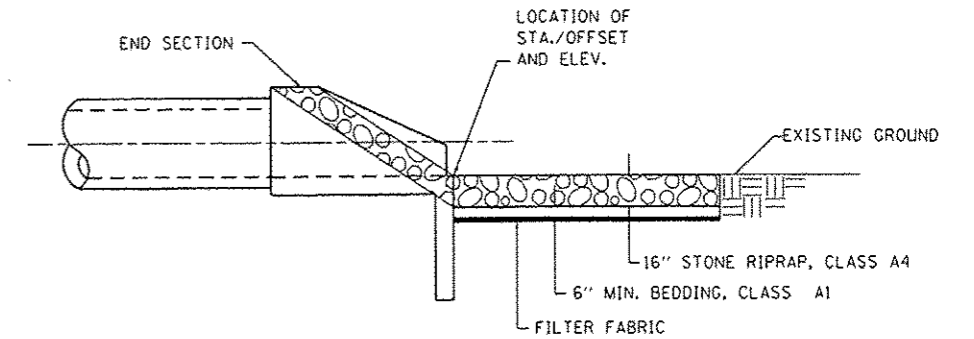
**FRONT VIEW**  
(NOT TO SCALE)

**SOLAR-POWERED FLASHING  
BEACON ASSEMBLY (COMPLETE)**  
(NOT TO SCALE)

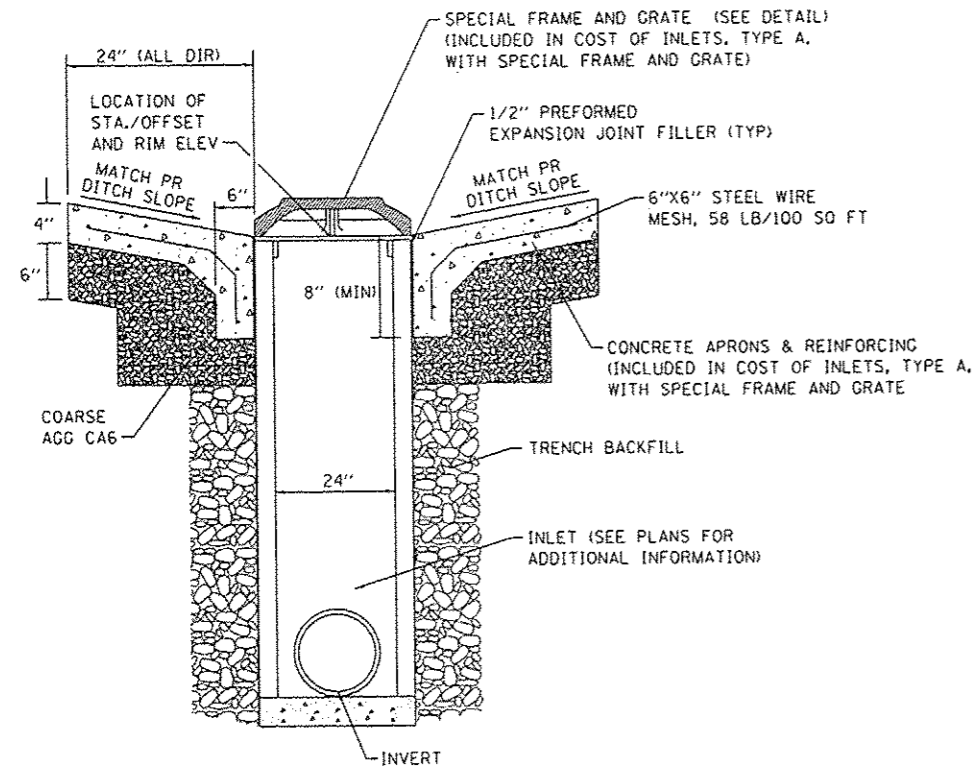
FILE NAME * 0814082-Sht-detailed.dgn	USER NAME * andy.mueller	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONSTRUCTION DETAILS</b>			F.A.U. RTE. 8854	SECTION 14-00068-00-BT	COUNTY MADISON	TOTAL SHEETS 61	SHEET NO. 38		
	PLOT TIME * 6:21:21 PM	DRAWN -	REVISED -					SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT			
	PLOT SCALE * 40.0000 / in.	CHECKED -	REVISED -					CONTRACT NO. 97627						
	PLOT DATE * 5/16/2016	DATE -	REVISED -											



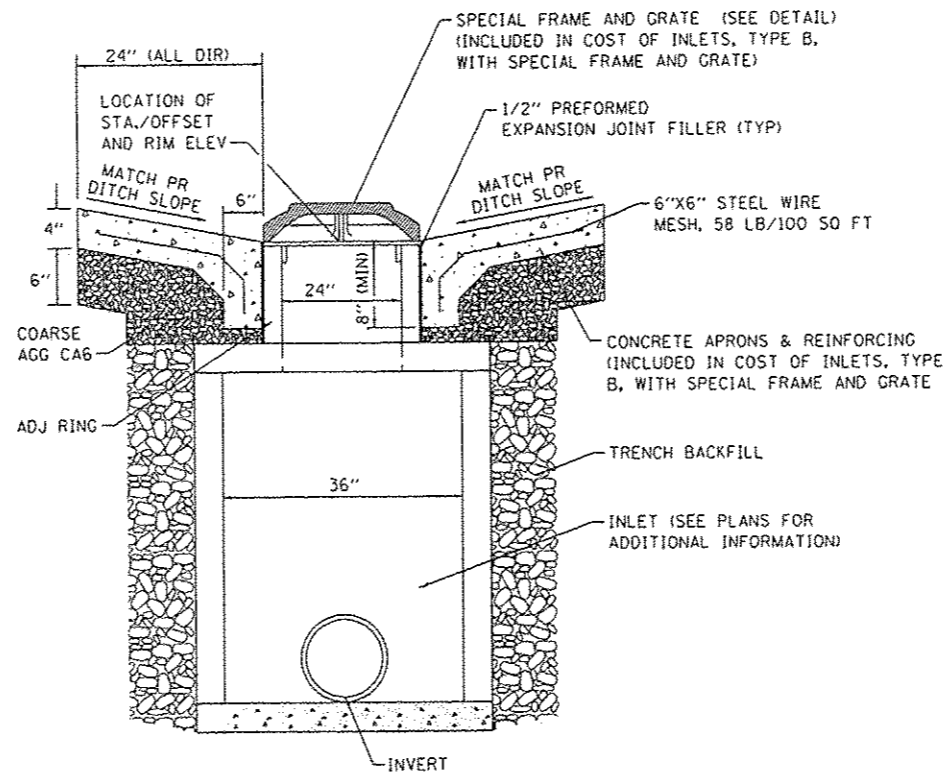
**SPECIAL FRAME AND GRATE**  
(NOT TO SCALE)



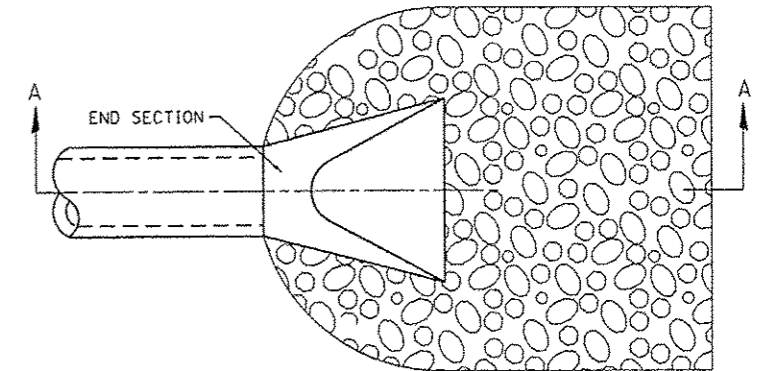
**SECTION A-A**



**INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE**  
(NOT TO SCALE)



**INLETS, TYPE B WITH SPECIAL FRAME AND GRATE**  
(NOT TO SCALE)

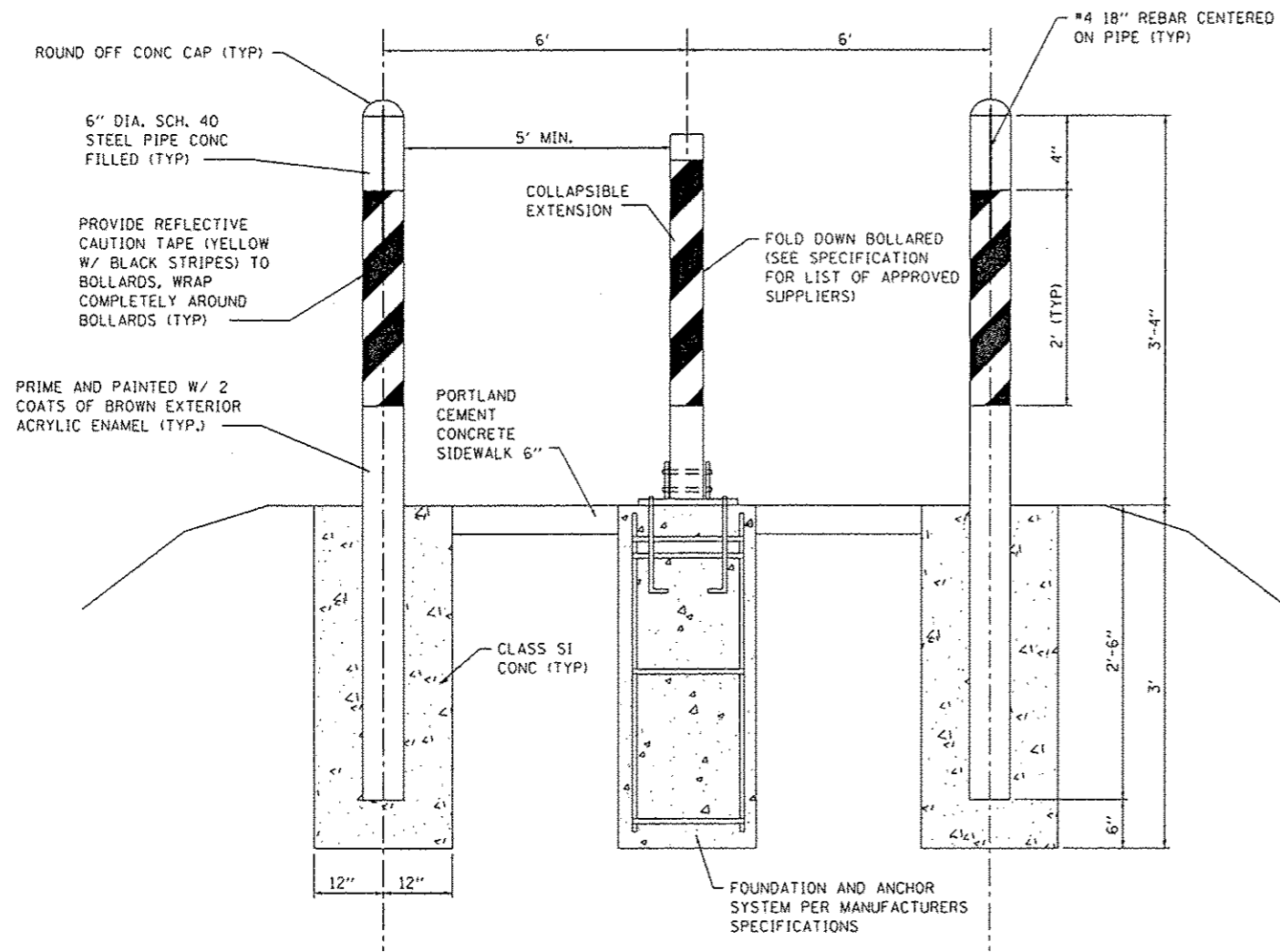


**NOTES:**

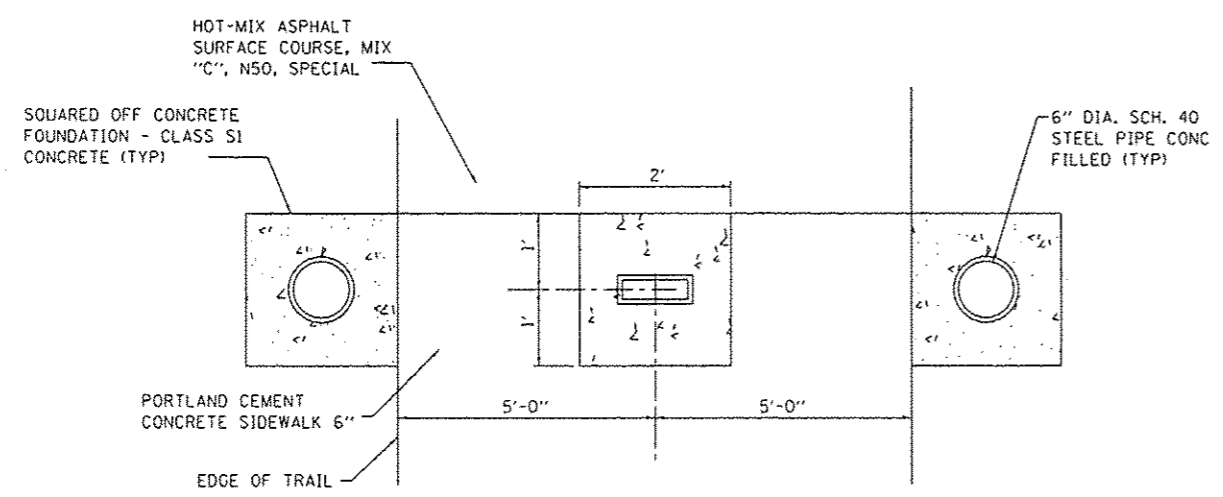
1. SEE EROSION CONTROL SHEETS FOR STONE RIPRAP LIMITS

**STONE RIPRAP - STORM SEWER  
& PIPE CULVERT**  
(NOT TO SCALE)

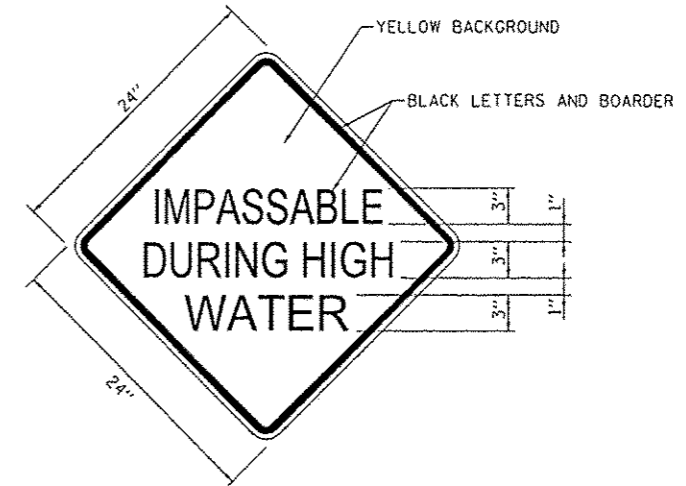
FILE NAME * 0814882-Sht-details.dgn	USER NAME * andy.muller	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONSTRUCTION DETAILS</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT TIME * 6:21:28 PM	DRAWN -	REVISED -					8854	14-00068-00-BT	MADISON	61	39
	PLOT SCALE * 40.0000 1 / in.	CHECKED -	REVISED -		CONTRACT NO. 97627							
	PLOT DATE * 5/18/2016	DATE -	REVISED -		SCALE:	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	[ILLINOIS] FED. AID PROJECT			



**BOLLARD DETAIL**  
(NOT TO SCALE)



**BOLLARD PLAN VIEW DETAIL**  
(NOT TO SCALE)



**NOTES:**  
1. SIGN SHALL COMPLY WITH MUTCD STANDARDS.

**IMPASSABLE DURING HIGH WATER**  
**SIGN DETAIL**  
(NOT TO SCALE)

FILE NAME \*  
0814882-Sht1-details.dgn

USER NAME \* andymueller  
PLOT TIME \* 9:21:27 AM  
PLOT SCALE \* 40:8000' / in.  
PLOT DATE \* 5/13/2016

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -

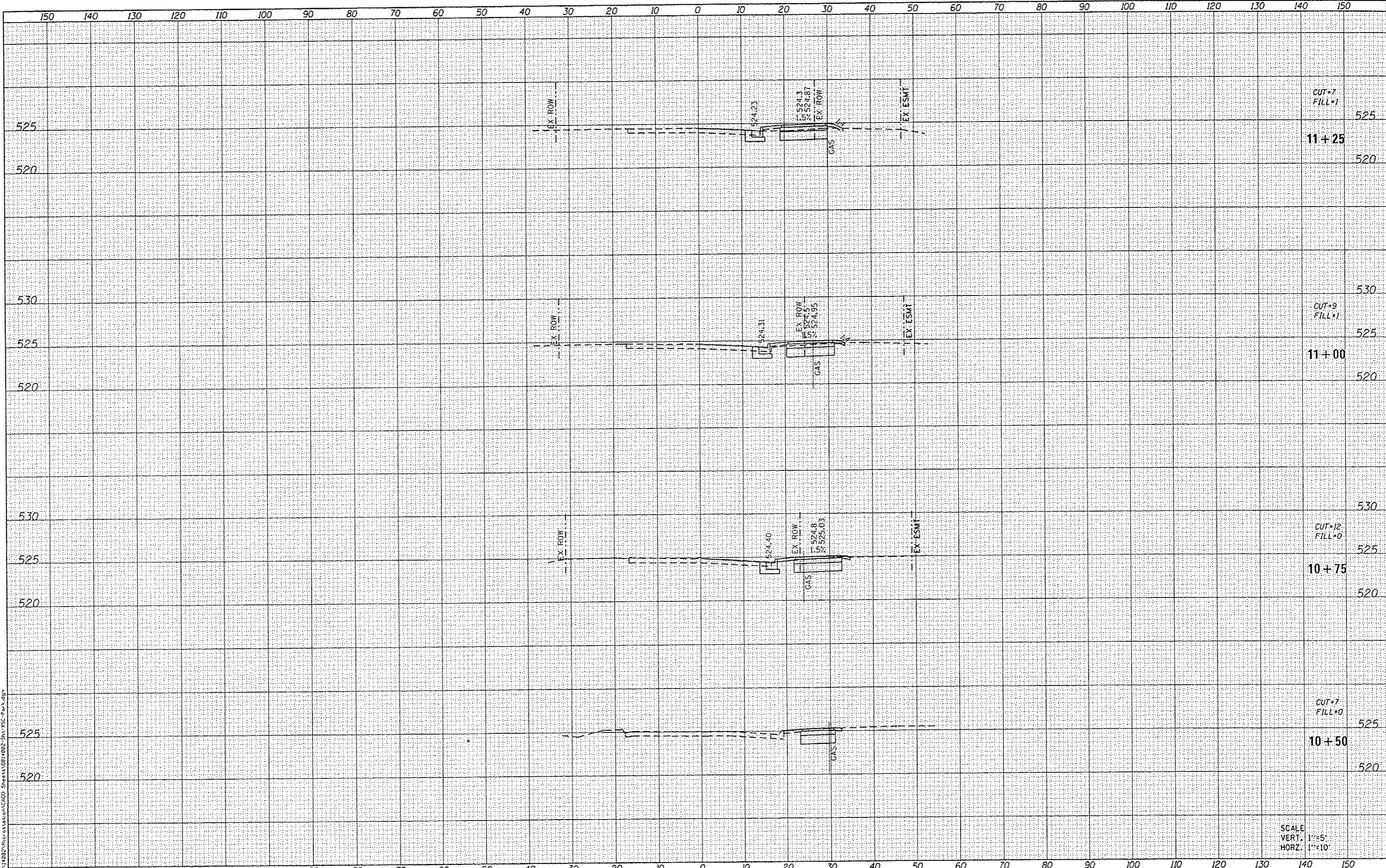
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B854	14-00068-00-BT	MADISON	61	40
				97627
ILLINOIS FED. AID PROJECT				





DATE	
BT	
FINAL SURVEY	
REVISION	
NOTE BOOK	
AREAS CHECKED	

DATE	
BT	
ORIGINAL SURVEY	
REVISION	
NOTE BOOK	
AREAS CHECKED	

FILE NAME = R:\P14382\Workstation\1403 Sheets\081482-Station-150-150.dwg

**OATES ASSOCIATES**  
 Engineering + Architecture  
 ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME = andy.mueller	DESIGNED -	REVISED -
PLOT SCALE = 20.0000 / in.	DRAWN -	REVISED -
PLOT DATE = 5/10/2016	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

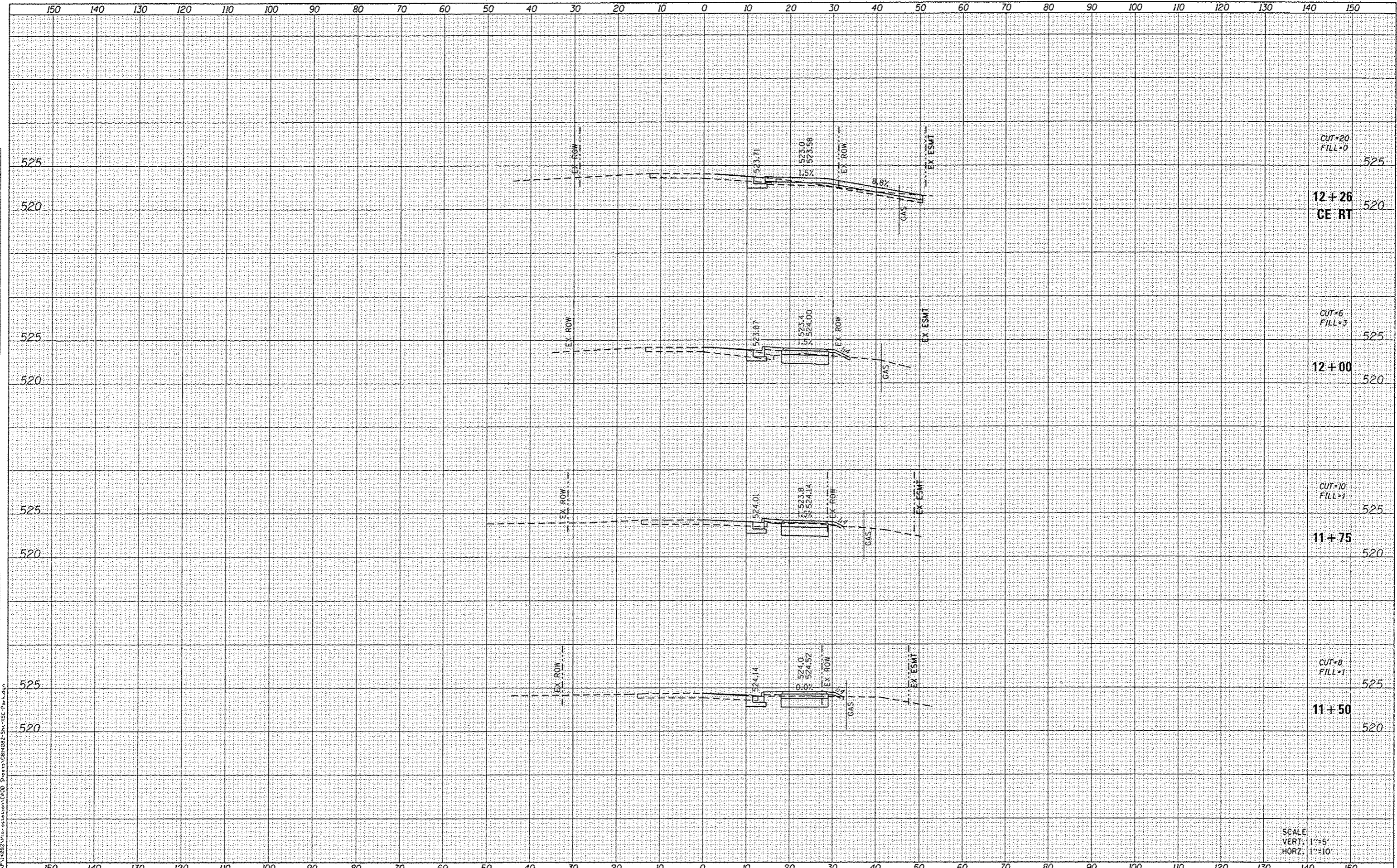
SCALE: SHEET 1 OF 21 SHEETS STA. 10+50 TO STA. 11+25

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	41
SHARPSHOOTERS BIKE TRAIL CONST.		CONTRACT NO. 97627		
HIGHLAND		ILLINOIS FED. AID PROJECT		

SCALE  
 VERT. 1"=5'  
 HORZ. 1"=10'

DATE	
BY	
FINAL SURVEY	
NOTED	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
NOTE BOOK	
NO.	



CUT=20  
FILL=0

12+26  
CE RT

CUT=6  
FILL=3

12+00

CUT=10  
FILL=1

11+75

CUT=8  
FILL=1

11+50

SCALE  
VERT. 1"=5'  
HORZ. 1"=10'

**OATES ASSOCIATES**  
Engineering & Architecture  
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME - andy.mueller	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 5/10/2016	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

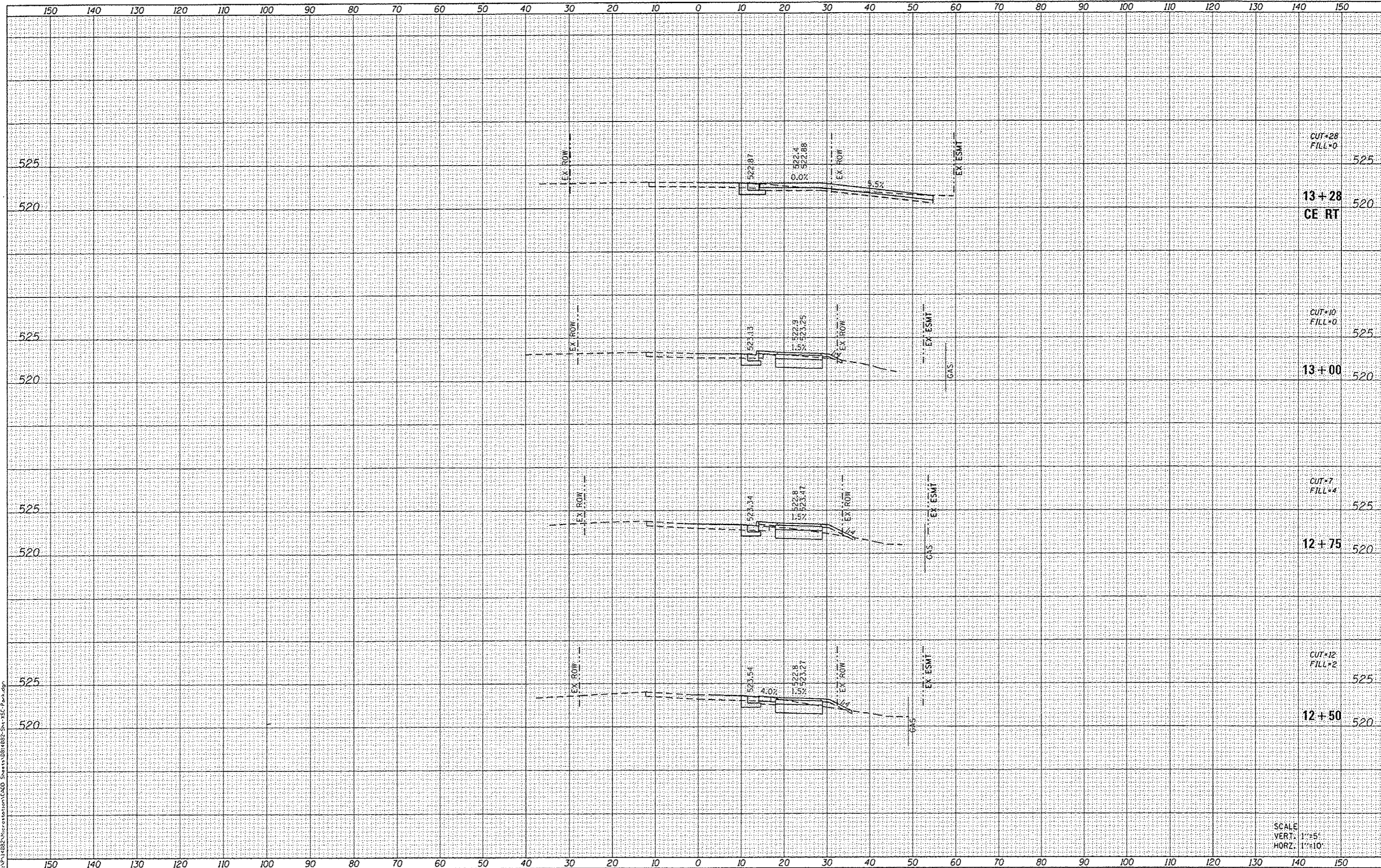
**CROSS SECTIONS**

SCALE: SHEET 2 OF 21 SHEETS STA. 11+50 TO STA. 12+26

F.A.U. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	42
SHARPSHOOTERS BIKE TRAIL CONST.		CONTRACT NO. 97627		
HIGHLAND		ILLINOIS FEH. AID PROJECT		

DATE	
BY	
REVISIONS	
APPROVED	
DESIGNED	
DRAWN	
CHECKED	
DATE	

DATE	
BY	
REVISIONS	
APPROVED	
DESIGNED	
DRAWN	
CHECKED	
DATE	



CUT+28  
FILL+0  
525  
13+28  
CE RT  
520

CUT+10  
FILL+0  
525  
13+00  
520

CUT+7  
FILL+4  
525  
12+75  
520

CUT+12  
FILL+2  
525  
12+50  
520

SCALE  
VERT: 1"=5'  
HORZ: 1"=10'



USER NAME	andy.mueller
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-
REVISIONS	-
REVISIONS	-
REVISIONS	-
REVISIONS	-

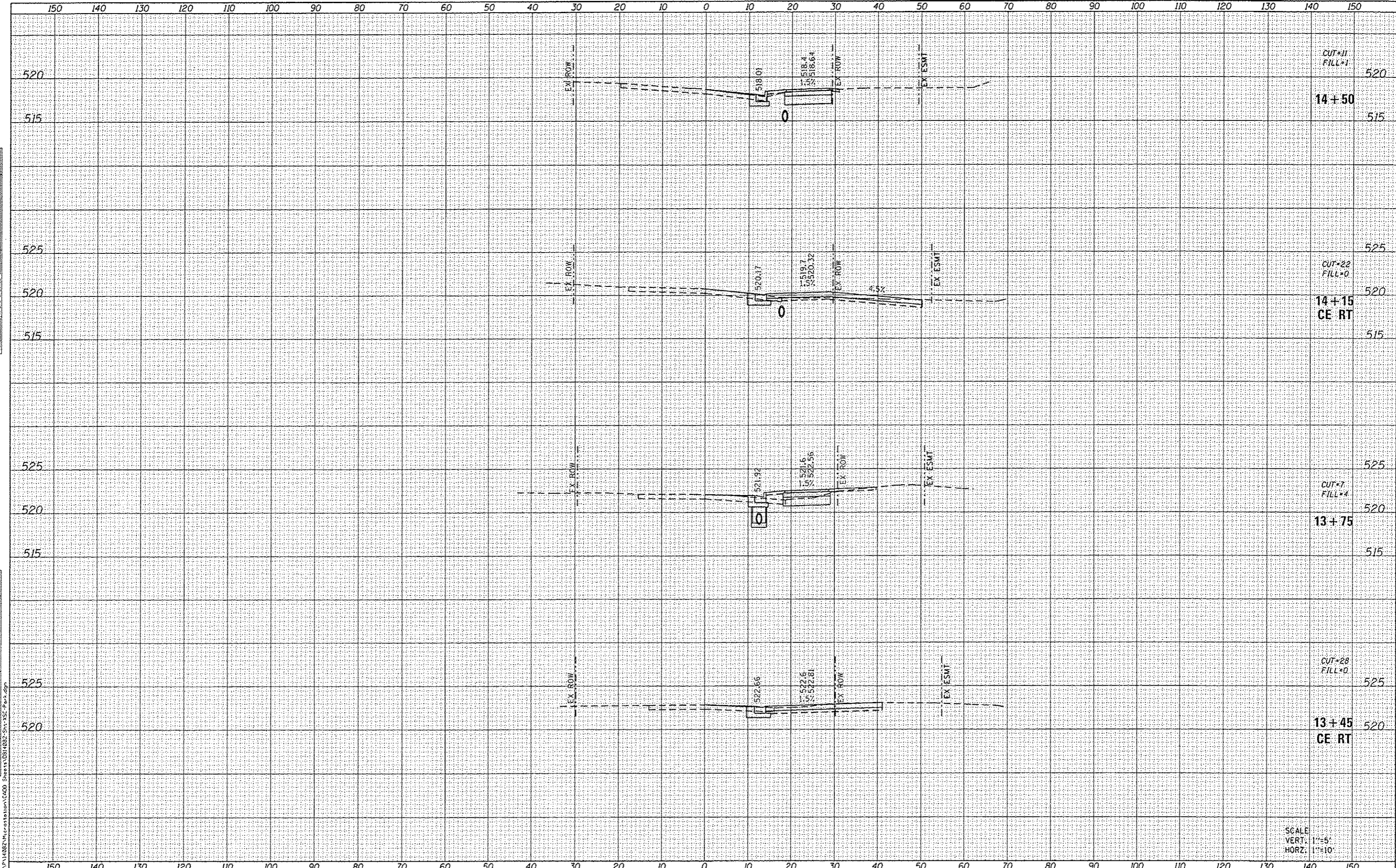
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
SCALE: SHEET 3 OF 21 SHEETS STA. 12+50 TO STA. 13+28

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	43
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
HIGHLAND		ILLINOIS FED. AID PROJECT		

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
REVISIONS	
NO.	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
REVISIONS	
NO.	



CUT=11  
FILL=1  
520  
14+50  
515

CUT=22  
FILL=0  
525  
14+15  
520  
CE RT  
515

CUT=7  
FILL=4  
525  
13+75  
520  
515

CUT=28  
FILL=0  
525  
13+45  
520  
CE RT

SCALE  
VERT. 1"=5'  
HORZ. 1"=10'

FILE NAME : H:\P1\0827\Information\CAD\Sheets\0827\_Sht-SC-Pa-1.dgn

**DATES ASSOCIATES**  
Engineering + Architecture  
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME : andymueller	DESIGNED -	REVISIONS
PLOT SCALE : 20.0000' / in.	DRAWN -	REVISIONS
PLOT DATE : 5/18/2016	CHECKED -	REVISIONS
	DATE -	REVISIONS

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

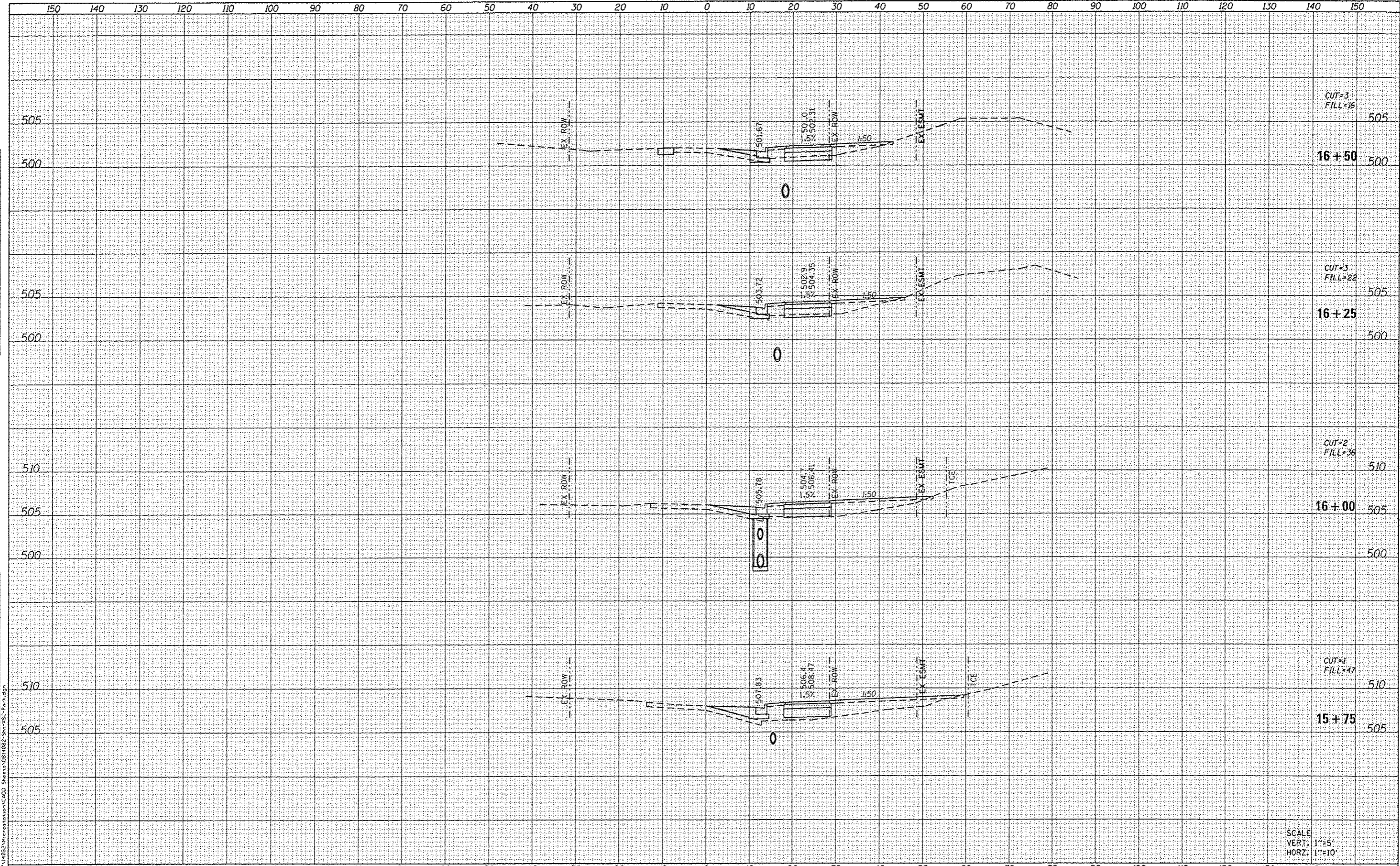
SCALE: SHEET 4 OF 21 SHEETS STA. 13+45 TO STA. 14+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	44
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
HIGHLAND		ILLINOIS FED. AID PROJECT		



DATE	
BY	
FILED	
NOTED	
REVISIONS	
NO.	

DATE	
BY	
FILED	
NOTED	
REVISIONS	
NO.	



SCALE:  
VERT: 1"=5'  
HORIZ: 1"=10'



USER NAME: andy.muller	DESIGNED -	REVISED -
PLOT SCALE: 20.0000' / 1"	DRAWN -	REVISED -
PLOT DATE: 5/18/2016	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

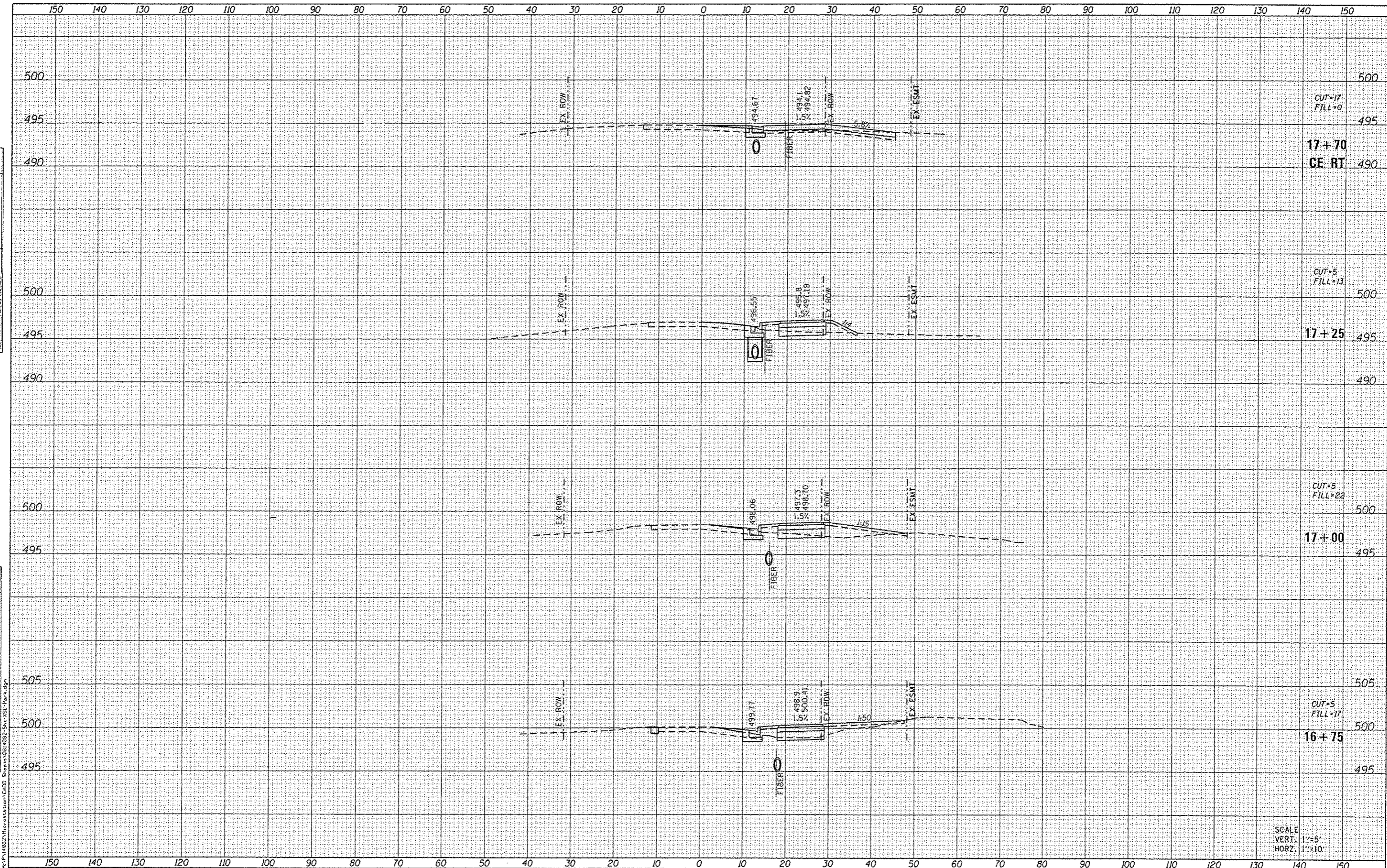
CROSS SECTIONS			
SCALE:	SHEET 6 OF 21 SHEETS	STA. 15+75 TO STA. 16+50	

F.A.U. RTE. 8854	SECTION 14-0006B-00-BT	COUNTY MADISON	TOTAL SHEETS 61	SHEET NO. 46
SHARPSHOOTERS BIKE TRAIL CONST.		CONTRACT NO. 97627		
HIGHLAND		ILLINOIS FED. AID PROJECT		

FILE NAME: H:\P\14282\Microstation\CADD\_Sheets\081482-2b-rsc-Park.dgn

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



CUT=17  
FILL=0  
17+70  
CE RT

CUT=5  
FILL=13  
17+25

CUT=5  
FILL=28  
17+00

CUT=5  
FILL=17  
16+75

SCALE  
VERT. 1"=5'  
HORZ. 1"=10'

**DATES ASSOCIATES**  
Engineering + Architecture  
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME	andy.mueller
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	9/10/2016

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

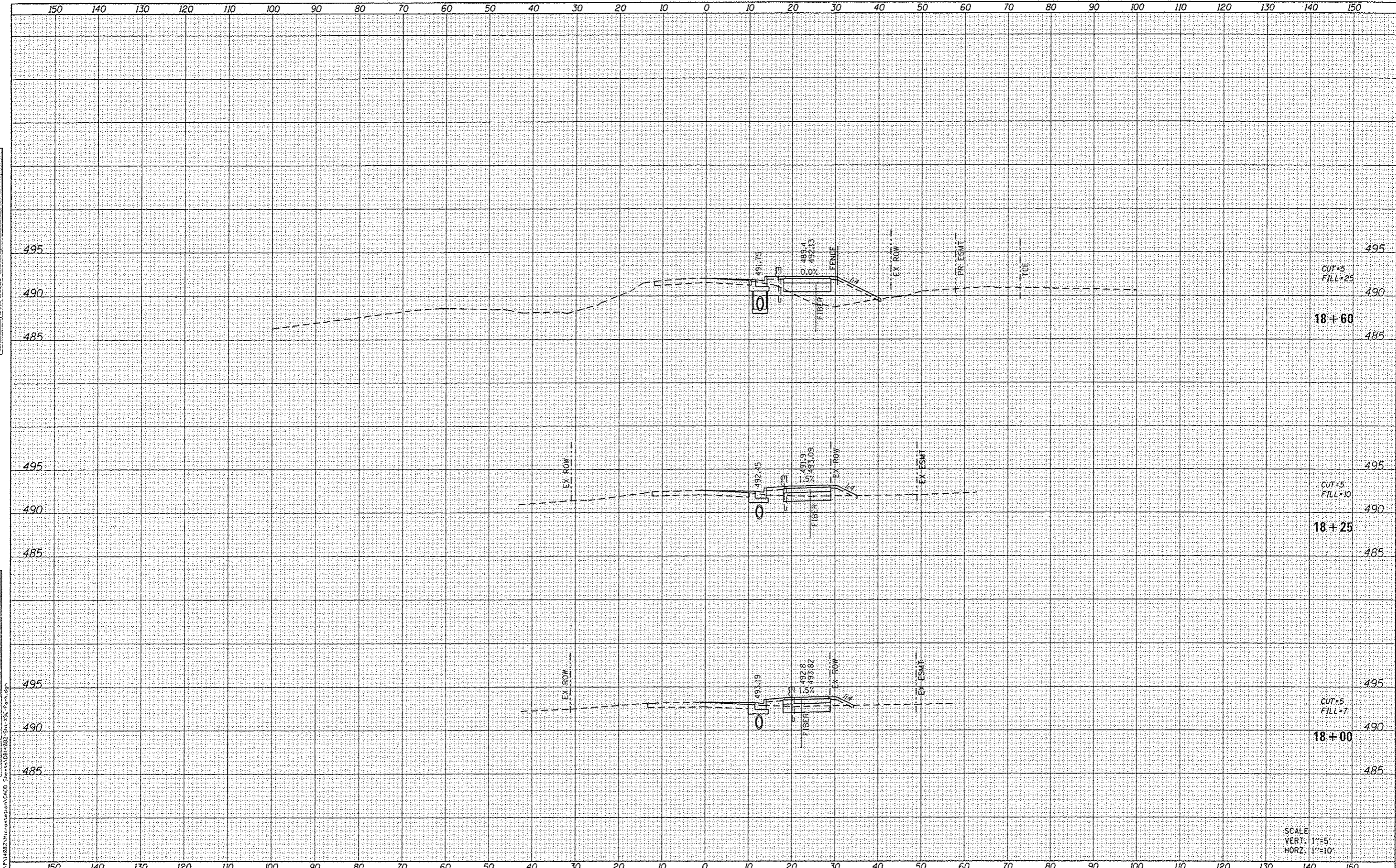
CROSS SECTIONS

SCALE: SHEET 7 OF 21 SHEETS STA. 16+75 TO STA. 17+62

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	47
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
HIGHLAND			ILLINOIS FED. AID PROJECT	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



CUT=5  
FILL=25

18+60

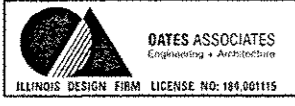
CUT=5  
FILL=10

18+25

CUT=5  
FILL=7

18+00

SCALE  
VERT: 1"=5'  
HORZ: 1"=10'



USER NAME : andymueller  
DESIGNED -  
DRAWN -  
CHECKED -  
DATE -  
PLOT SCALE : 20.0000 ' / in.  
PLOT DATE : 5/10/2016

REVISIED -  
REVISIED -  
REVISIED -  
REVISIED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: SHEET 6 OF 21 SHEETS STA. 18+00 TO STA. 18+50

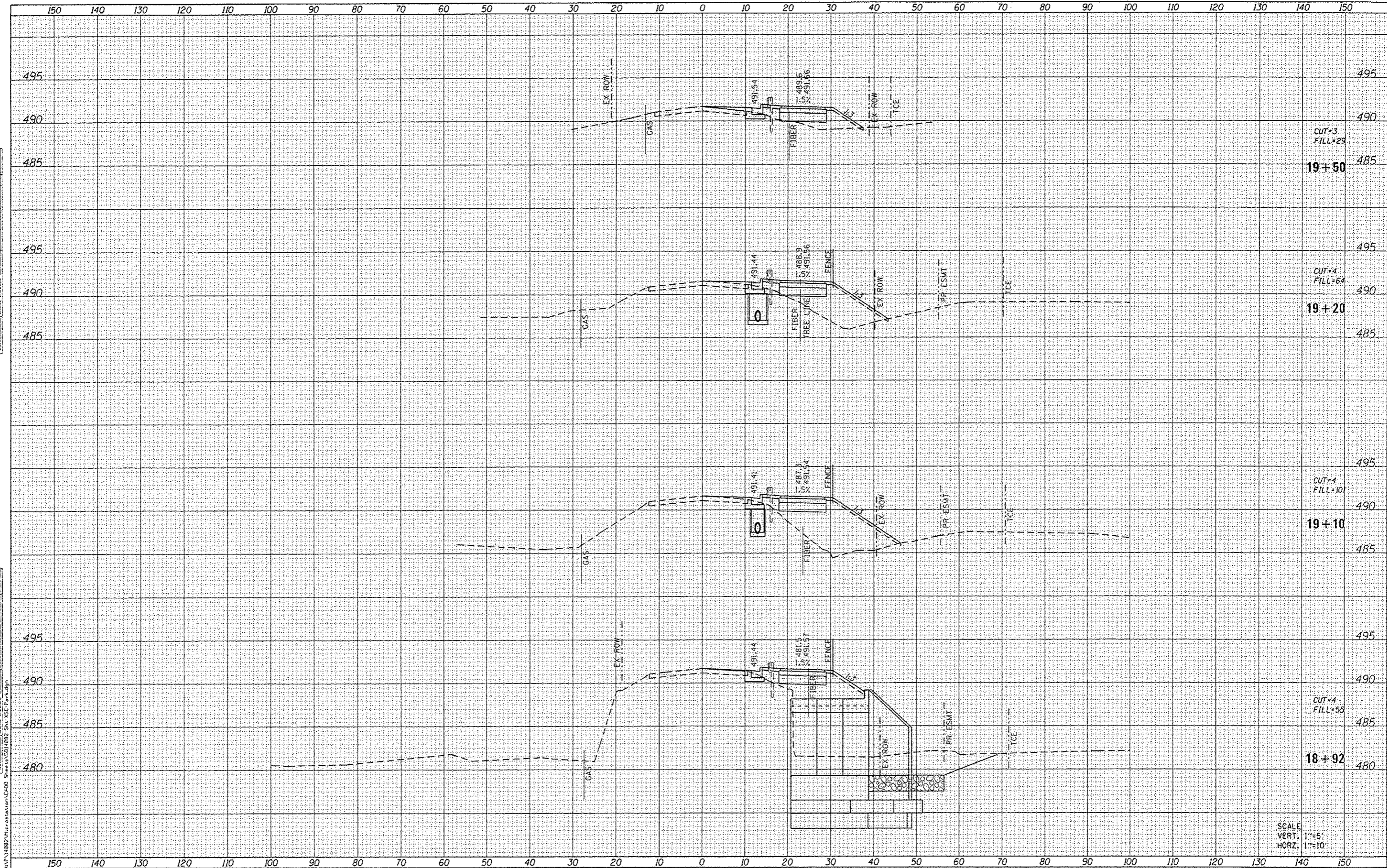
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	48
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
HIGHLAND		ILLINOIS FED. AID PROJECT		

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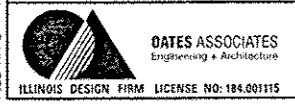


DATE	
BY	
FINAL	
DESIGNED	
DRAWN	
CHECKED	
DATE	
REVISIONS	
NO.	

DATE	
BY	
FINAL	
DESIGNED	
DRAWN	
CHECKED	
DATE	
REVISIONS	
NO.	



SCALE  
VERT. 1"=5'  
HORZ. 1"=10'



USER NAME : andy.mueller  
 PLT SCALE : 20.0000' / in.  
 PLOT DATE : 5/10/2016

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

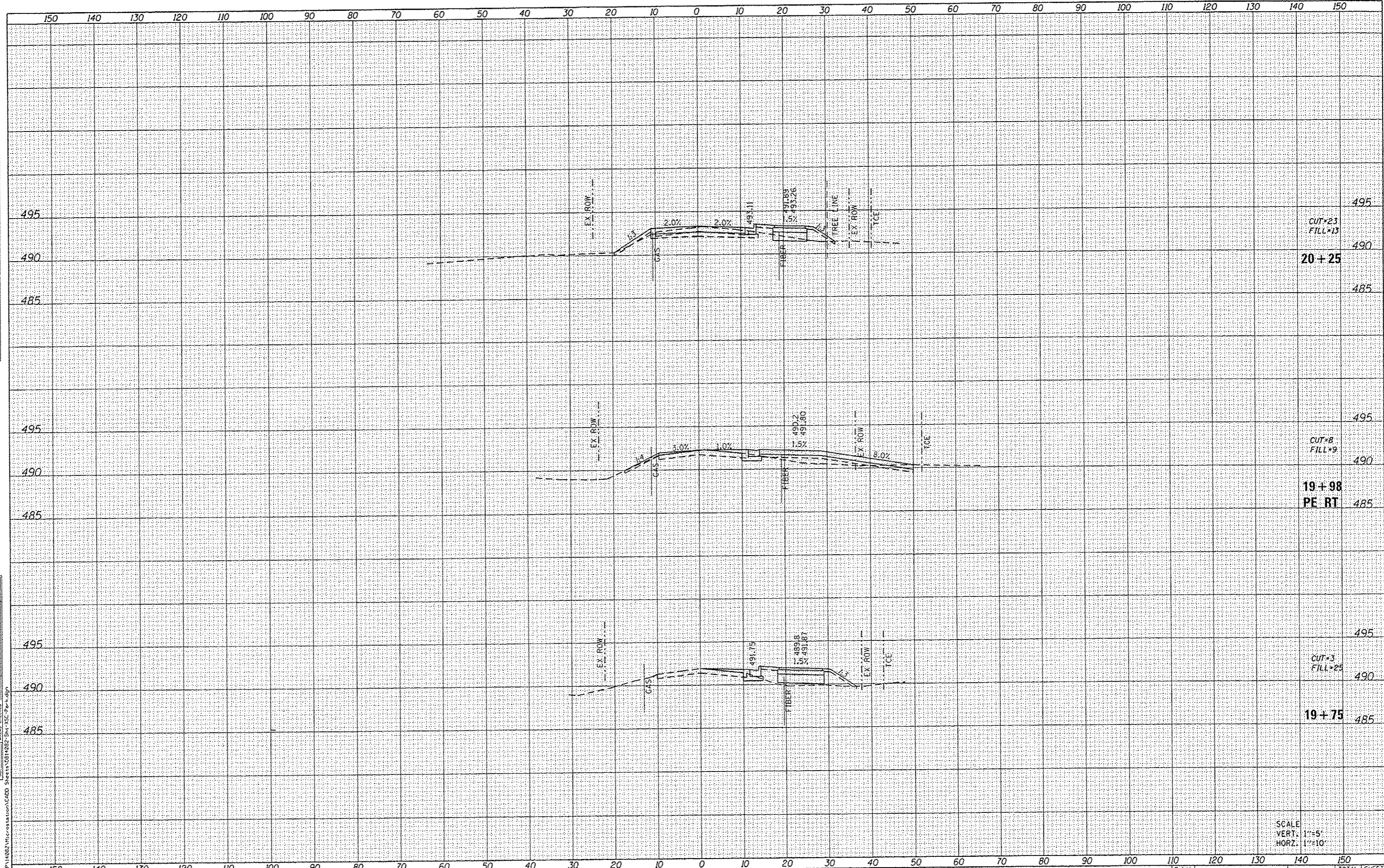
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 SCALE: SHEET 9 OF 21 SHEETS STA. 18+92 TO STA. 19+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	49
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
HIGHWAY		ILLINOIS FED. AID PROJECT		

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_

DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 AREAS CHECKED \_\_\_\_\_



495  
CUT=23  
FILL=13

490  
20+25

485

495  
CUT=8  
FILL=9

490  
19+98  
PE RT

485

495  
CUT=3  
FILL=25

490  
19+75

485

SCALE  
VERT. 1"=5'  
HORZ. 1"=10'



USER NAME	andymueller	DESIGNED	-	REVISED	-
PLLOT SCALE	20.0000' / in.	DRAWN	-	REVISED	-
PLLOT DATE	5/10/2016	CHECKED	-	REVISED	-
		DATE	-	REVISED	-

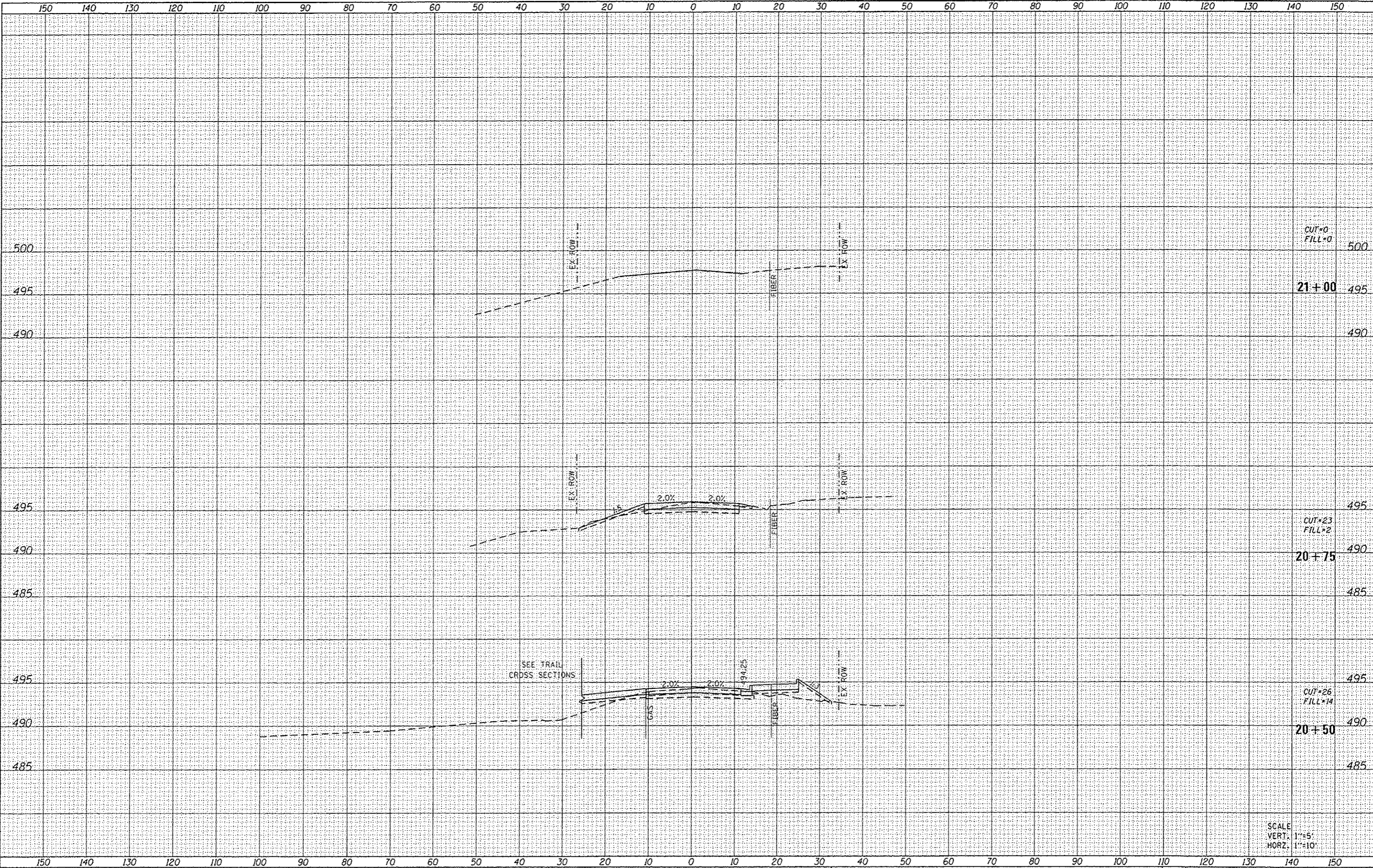
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: SHEET 10 OF 21 SHEETS STA. 19+75 TO STA. 20+25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	50
SHARPSHOOTERS BIKE TRAIL CONST.		CONTRACT NO. 97627		
HIGHLAND		ILLINOIS FED. AID PROJECT		

FILE NAME = N:\P\14082\MicroStation\LRD0 Sheets\0814982-Sht-15C-Per.k.dgn



CUT=0  
FILL=0

21+00

CUT=23  
FILL=2

20+75

CUT=26  
FILL=14

20+50

SCALE  
VERT. 1"=5'  
HORIZ. 1"=10'

DATE	
BY	
NO.	
APPROVED	
AREA	
TEMPLATE	
NOTES	
BOOK	
SURVEY	
FINAL	

DATE	
BY	
NO.	
APPROVED	
AREA	
TEMPLATE	
NOTES	
BOOK	
SURVEY	
ORIGINAL	

FILE NAME : H:\01\082\Information\CADD\Sheets\01\082\Shr-151-Park.dgn

**GATES ASSOCIATES**  
Engineering & Architecture  
ILLINOIS DESIGN FIRM LICENSE NO. 184.001115

USER NAME	andy.muller
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	5/10/2016

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

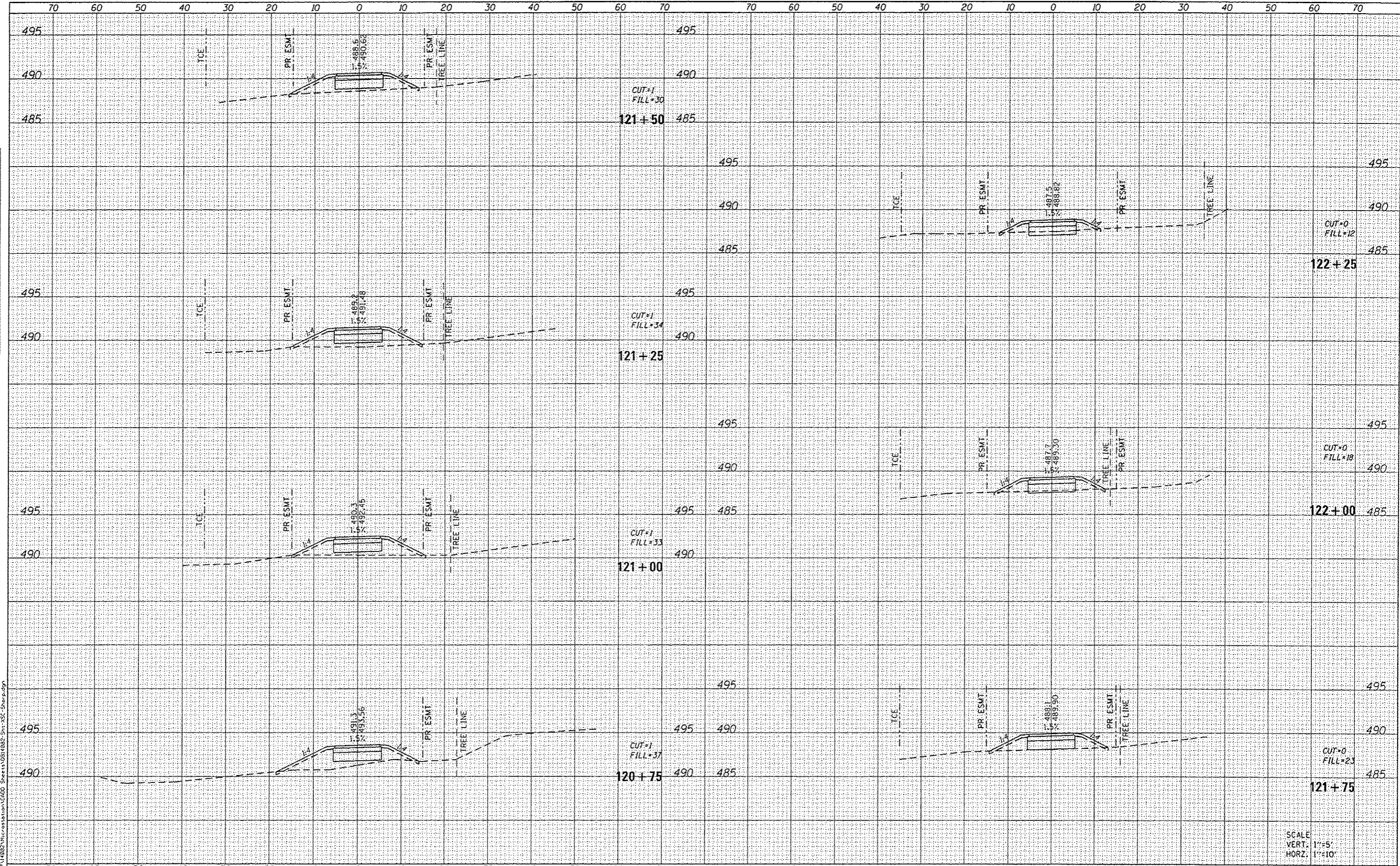
**CROSS SECTIONS**

SCALE: SHEET 11 OF 21 SHEETS STA. 20+50 TO STA. 20+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	51
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
HIGHLAND		ILLINOIS FED. AID PROJECT		

DATE	
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REVISIONS	
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DATE	
BY	
DESCRIPTION	



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**DATES ASSOCIATES**  
Engineering & Architecture  
ILLINOIS DESIGN FIRM LICENSE NO. 184.091115

USER NAME	andy.muelle
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-
REVISIONS	
NO.	
DATE	
DESCRIPTION	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

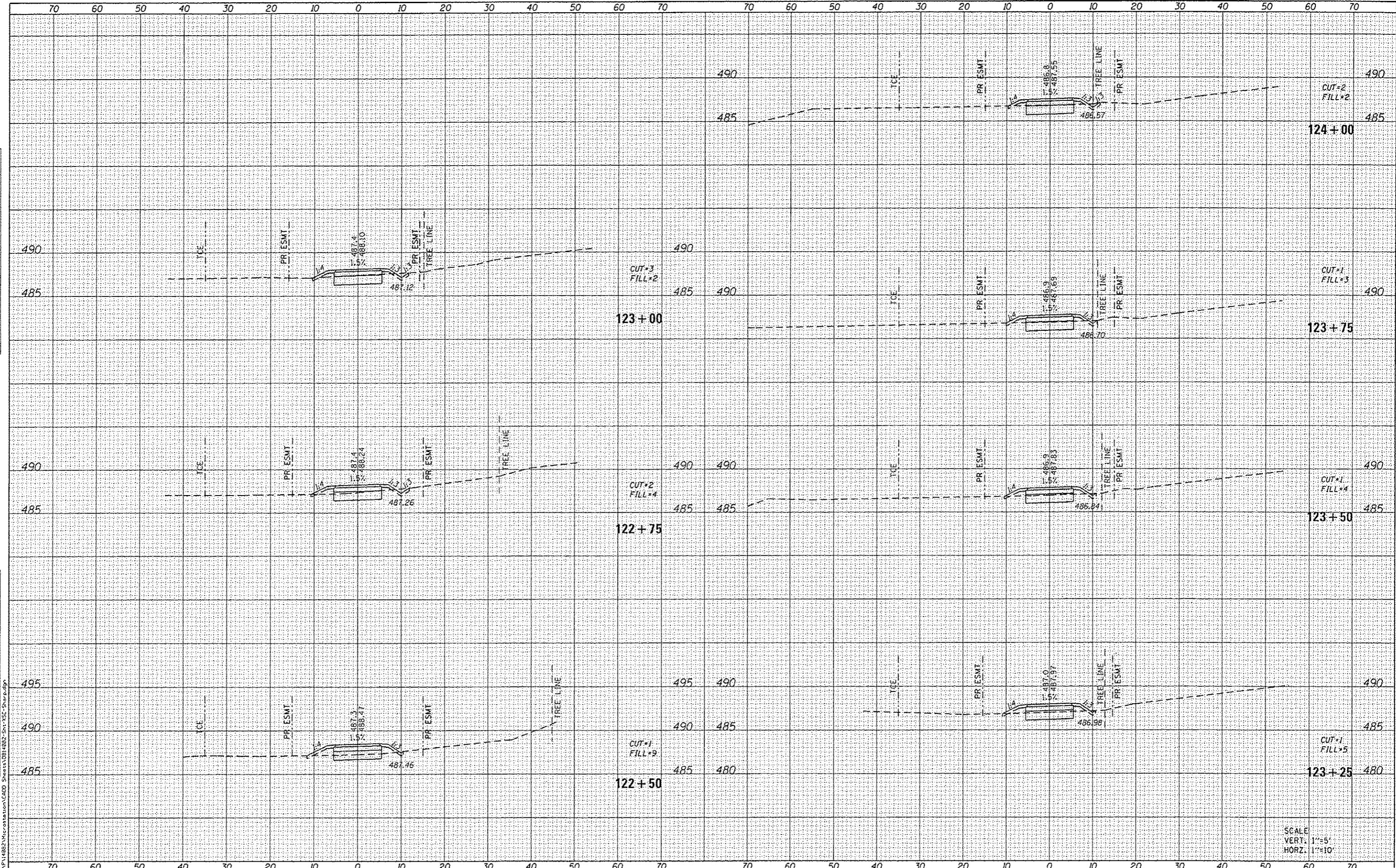
SCALE: SHEET 12 OF 21 SHEETS STA. 120+75 TO STA. 122+25

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	52
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
HIGHLAND ILLINOIS FED. AID PROJECT				

SCALE  
VERT. 1"=5'  
HORIZ. 1"=10'

DATE	
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BY	
ORIGINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	
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SCALE  
VERT. 1"=5'  
HORZ. 1"=10'



USER NAME = andymuller	DESIGNED -	REVISED -
PLOT SCALE = 20,0000' / 1"	DRAWN -	REVISED -
PLOT DATE = 5/10/2016	CHECKED -	REVISED -
	DATE -	REVISED -

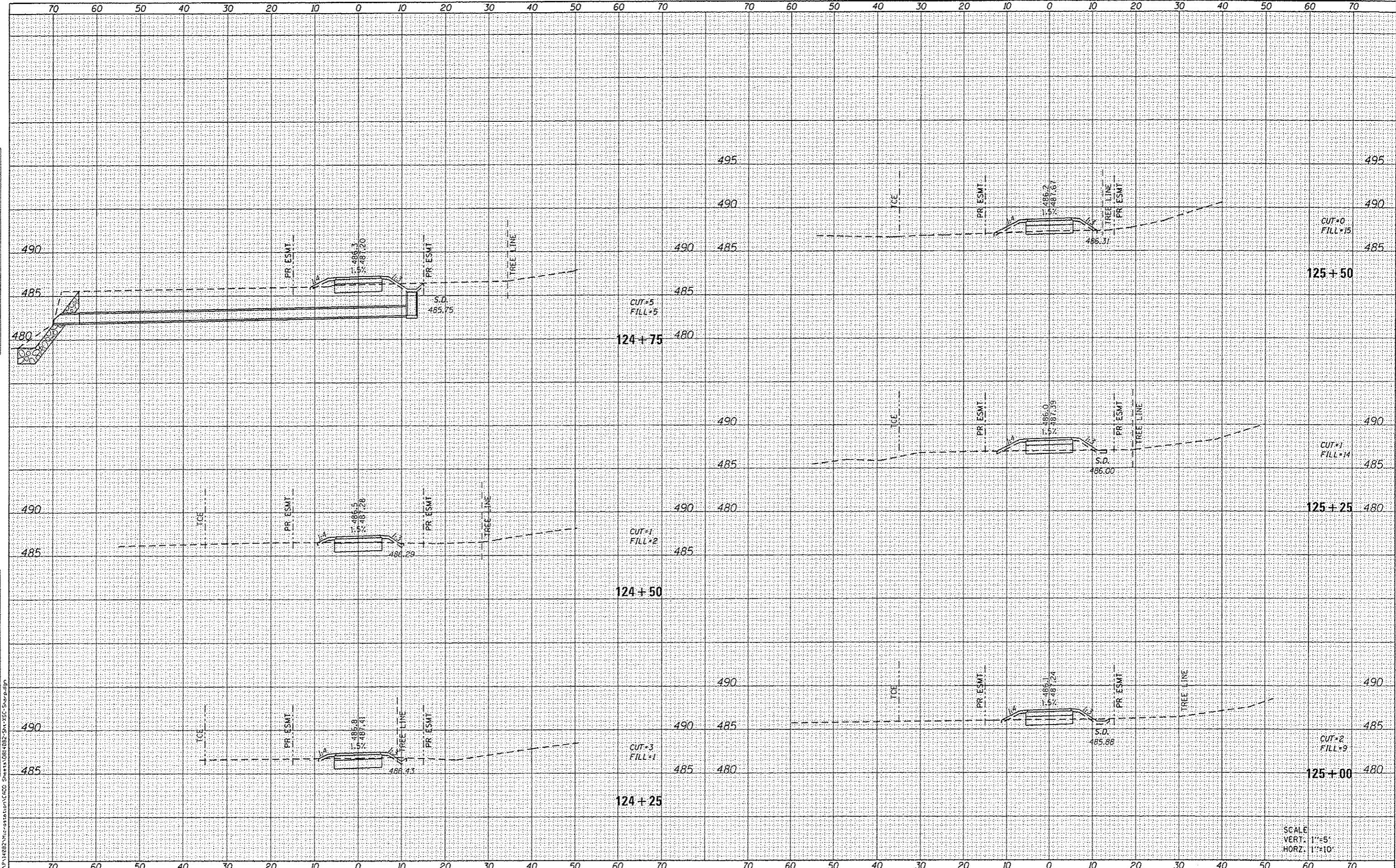
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS	
SCALE:	SHEET 13 OF 21 SHEETS STA. 122+50 TO STA. 124+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	53
SHARPSHOOTERS BIKE TRAIL CONST.		CONTRACT NO. 97627		
HIGHLAND		ILLINOIS FED. AID PROJECT		

DATE	
BY	
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REVISIONS	
NOTE BOOK	
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DATE	
BY	
ORIGINAL SURVEY	
REVISIONS	
NOTE BOOK	
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SCALE  
VERT. 1"=5'  
HORZ. 1"=10'



USER NAME - andymueller	DESIGNED -	REVISED -
PLOT SCALE = 20,000/1 in.	DRAWN -	REVISED -
PLOT DATE = 5/10/2016	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

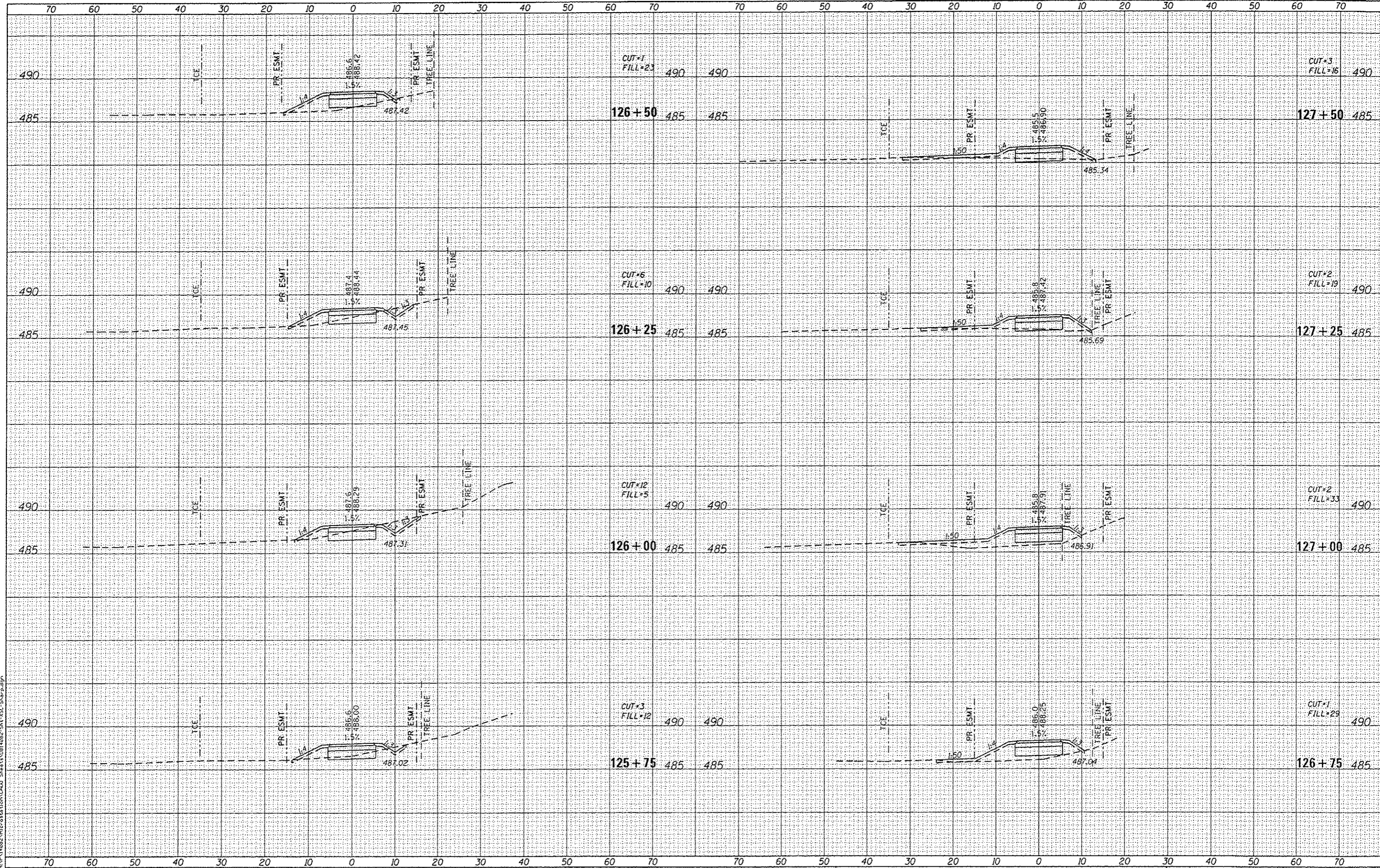
CROSS SECTIONS			
SCALE:	SHEET 14 OF 21 SHEETS	STA. 124+25 TO STA. 125+50	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B854	14-00068-00-BT	MADISON	61	54
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
HIGHLAND			ILLINOIS FED. AID PROJECT	

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SURVEY	
ORIGINAL	

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**DATES ASSOCIATES**  
Engineering • Architecture

ILLINOIS DESIGN FIRM LICENSE NO: 184-001115

USER NAME : andymueller	DESIGNED -	REVISED -
PLOT SCALE : 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE : 5/10/2016	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

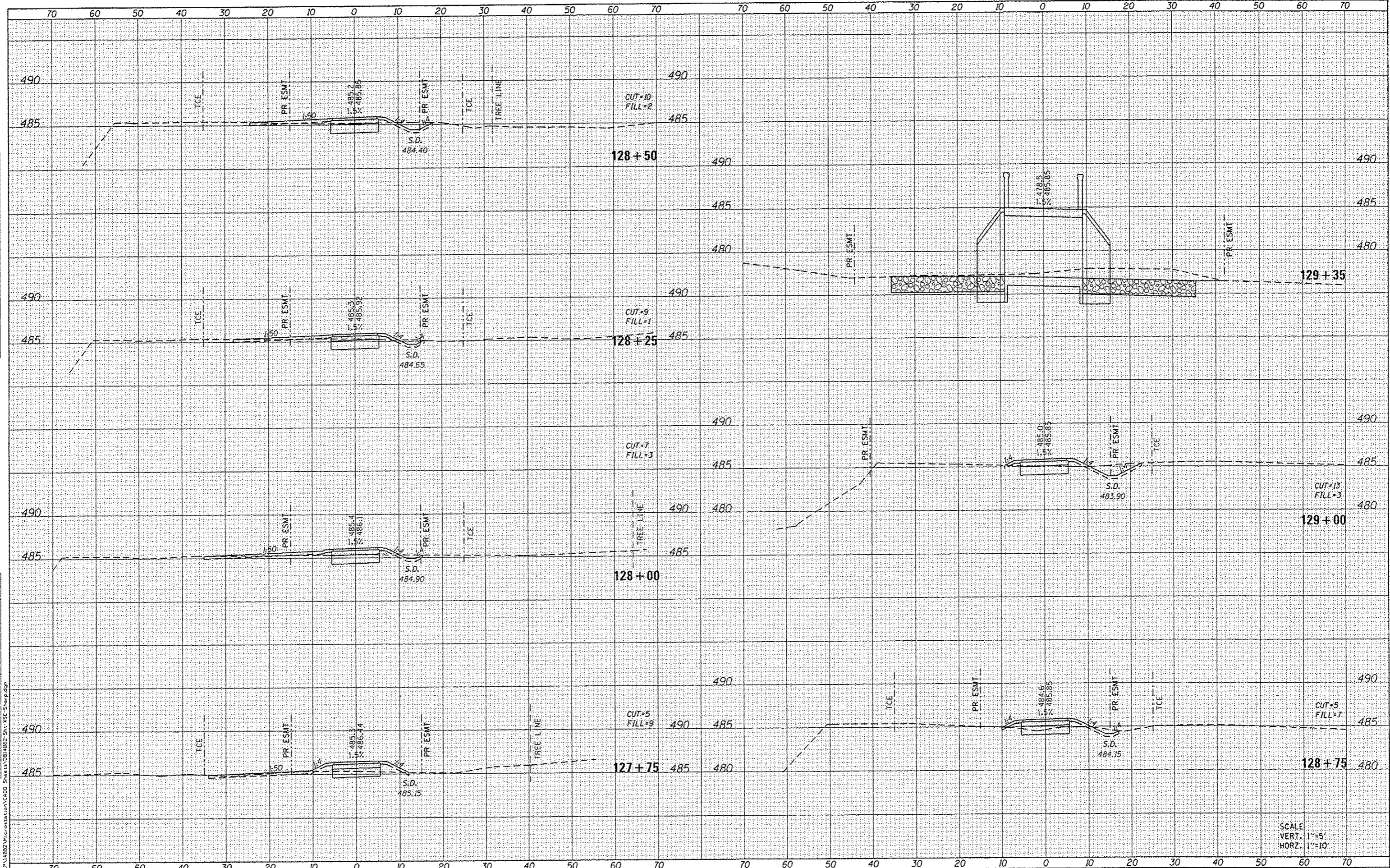
**CROSS SECTIONS**

SCALE: SHEET 15 OF 21 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	55
CONTRACT NO. 97627			ILLINOIS FED. AID PROJECT	

DATE	
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REVISIONS	
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FILE NAME = H:\P\11882\Microstation\CADD Sheets\081488P-SH-XSC-Sheep.dwg

**OATES ASSOCIATES**  
Engineering + Architecture  
ILLINOIS DESIGN FIRM LICENSE NO: 184-001115

USER NAME = andy.muller	DESIGNED -	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 5/10/2016	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE:	SHEET 16 OF 21 SHEETS	STA. 127+75 TO STA. 129+40
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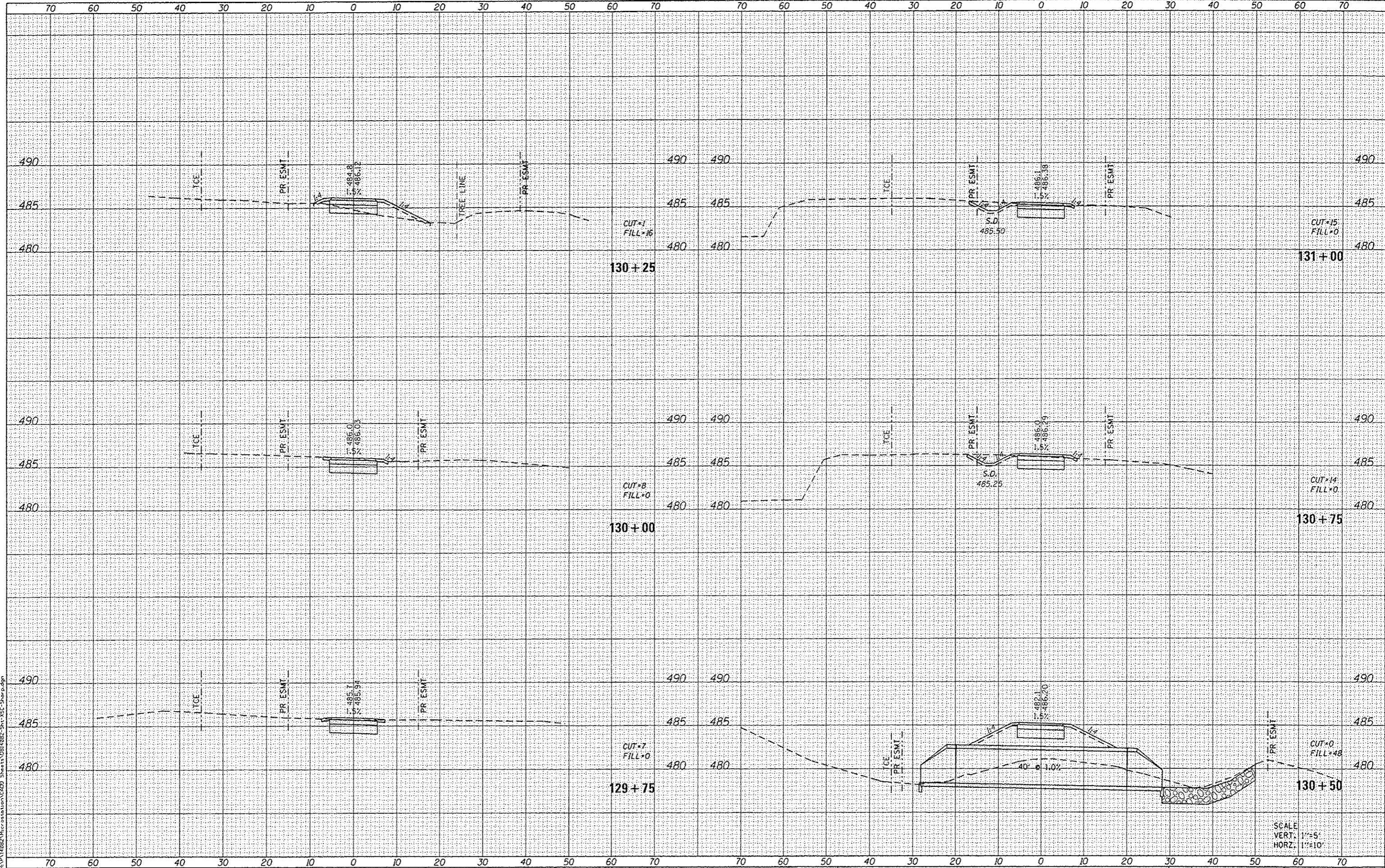
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	56
SHARPSHOOTERS BIKE TRAIL CONST.		CONTRACT NO. 97627		
HIGHLAND		ILLINOIS FED. AID PROJECT		

SCALE  
VERT. 1"=5'  
HORZ. 1"=10'



DATE	
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 OATES ASSOCIATES  
 Engineering + Architecture  
 ILLINOIS DESIGN FIRM LICENSE NO: 184.081115

USER NAME	andy.mueller
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-
REVISED	-
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REVISED	-

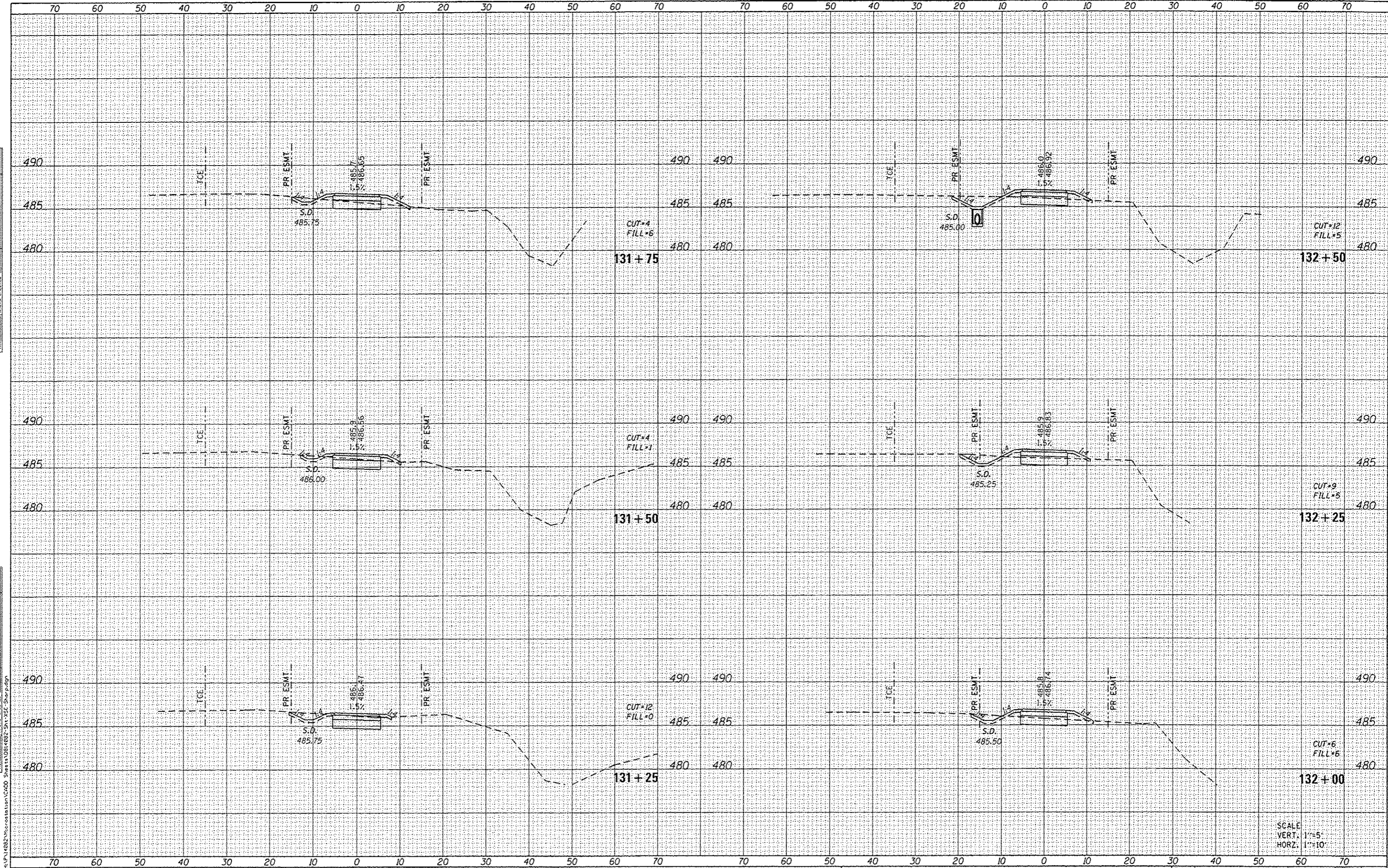
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 SCALE: SHEET 17 OF 21 SHEETS STA. 129+75 TO STA. 131+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	57
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
HIGHLAND ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	
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ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



SCALE  
VERT. 1"=5'  
HORZ. 1"=10'



USER NAME	* andy.mueller	DESIGNED	-	REVISED	-
PLLOT SCALE	= 20.0000' / in.	DRAWN	-	REVISED	-
PLLOT DATE	= 5/10/2016	CHECKED	-	REVISED	-
		DATE	-	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

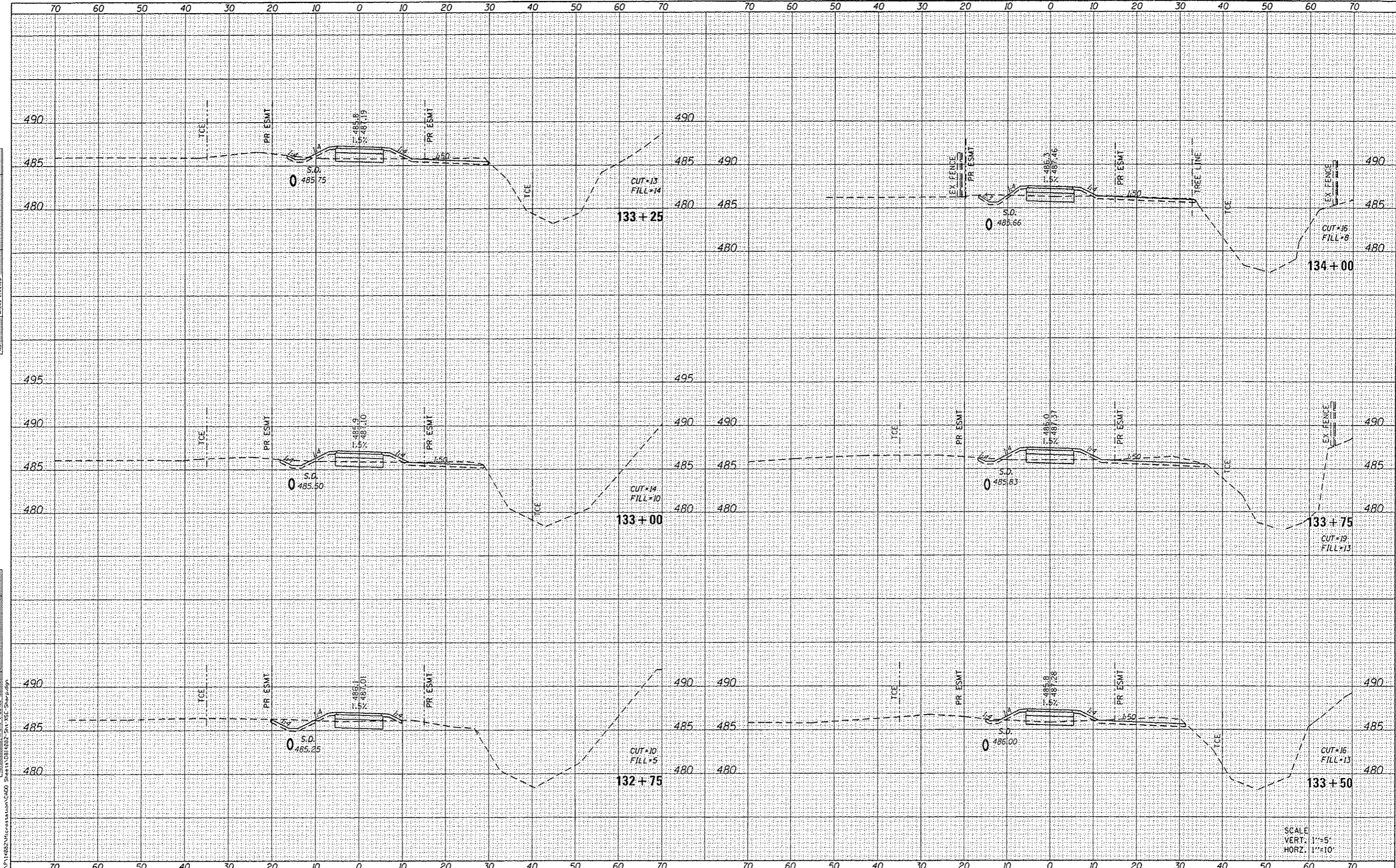
CROSS SECTIONS			
SCALE:	SHEET 18 OF 21 SHEETS	STA. 131+25	TO STA. 132+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	58
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
HIGHLAND		ILLINOIS FED. AID PROJECT		

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NOTE BOOK	
AREAS CHECKED	
NO.	

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BT	
SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



SCALE  
VERT. 1"=5'  
HORZ. 1"=10'



USER NAME	andy.muller	DESIGNED	-	REVISED	-
PLLOT SCALE	20,000' / in.	DRAWN	-	REVISED	-
PLLOT DATE	5/10/2016	CHECKED	-	REVISED	-
		DATE	-	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS			
SCALE:	SHEET 19 OF 21 SHEETS	STA. 132+75	TO STA. 134+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8854	14-00068-00-BT	MADISON	61	59
SHARPSHOOTERS BIKE TRAIL CONST.			CONTRACT NO. 97627	
HIGHLAND			ILLINOIS FED. AID PROJECT	



