F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	18-P4006-00-BT	DEKALB	58	1
CONTRACT NO.: 87730	ILLINOIS			

04-24-2020 LETTING ITEM 194

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL AID HIGHWAY GREAT WESTERN TRAIL EXTENSION SEGMENT 1

SYCAMORE FOREST PRESERVE TO OLD MILL PARK

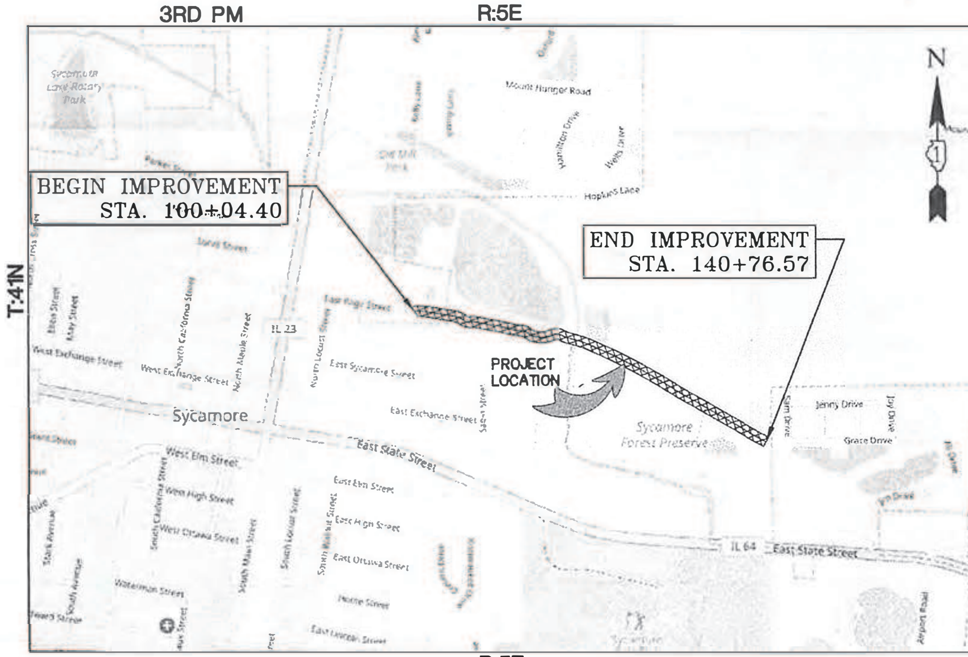
PROJECT No.: KLJK (070)

SECTION No.: 18-P4006-01-BT

JOB No.: C-93-021-19

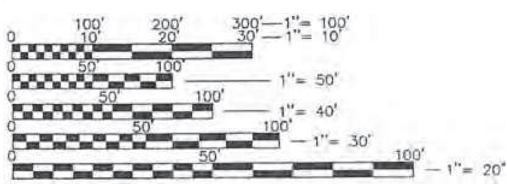
SYCAMORE PARK DISTRICT

PROJECT LOCATED IN THE CITY OF SYCAMORE & UNINCORPORATED DEKALB COUNTY



LOCATION MAP
(NOT TO SCALE)

LOCATION OF SECTION INDICATED THUS: — ▬



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

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

PROJECT MANAGER: JOHN MAYER, PE
PROJECT ENGINEER: ANDREW KUSTUSCH, PE

CONTRACT NO. 87730

ENGINEERING RESOURCE ASSOCIATES
Professional Design Firm No. 184-001186
Expires April 30, 2020
3S701 WEST AVENUE, SUITE 150
WARRENVILLE, ILLINOIS 60555
PHONE (630) 393-3060
FAX (630) 393-2152

CITY OF SYCAMORE & DEKALB COUNTY
GROSS LENGTH OF IMPROVEMENT = 4,072.17 LF (0.77 MILES)
NET LENGTH OF IMPROVEMENT = 4,072.17 LF (0.77 MILES)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED November 7, 2019
[illegible]
SYCAMORE PARK DISTRICT

PASSED Nov 14, 2019
Joe Wick.
DISTRICT 3 ENGINEER OF LOCAL ROADS & STREETS

[illegible]
Nov 14, 2019
REGION 2 ENGINEER
"RELEASING FOR BIDS BASED ON LIMITED REVIEW"

[illegible]
ANDREW R. KUSTUSCH
062-067853
REGISTERED PROFESSIONAL ENGINEER OF
STATE OF ILLINOIS
EXP 11-30-19

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FEDERAL AID PROGRAM ENGINEER:

Updated by: rtonner 11/7/2019

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE"(811) AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED). CONTACT OWNER'S PROJECT MANAGER TO LOCATE PRIVATE UTILITIES WITHIN THE PROJECT AREA, A MINIMUM OF FIVE DAYS IN ADVANCE OF CONSTRUCTION ACTIVITIES.

2. ALL WORK SHALL BE IN ACCORDANCE WITH THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION), THE SYCAMORE, ILLINOIS "CITY CODE," AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", (LATEST EDITION). THE EROSION & SEDIMENT CONTROL PRACTICES SHALL BE ACCORDING TO THE ILLINOIS URBAN MANUAL (LATEST EDITION).

3. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.

4. ALL UTILITIES, SCHOOL DISTRICTS, LOCAL POLICE, AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.

5. UNLESS AUTHORIZED BY THE ENGINEER, ALL EXISTING ACCESS POINTS SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR.

6. DURING THE CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED, AT HIS EXPENSE, TO HAVE AVAILABLE A WATER TRUCK OR SIMILAR EQUIPMENT TO CONTROL DUST. IF NECESSARY, THE CONTRACTOR SHALL BE REQUIRED TO CONTROL DUST DURING NON-WORKING HOURS. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

7. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO UPLAND DISTURBANCE.

8. THE CONTRACTOR WILL PERFORM ALL CONSTRUCTION LAYOUT AND AS-BUILT SURVEY.

TREE REMOVAL & CLEARING

DUE TO THE POTENTIAL PRESENCE OF THE INDIANA BAT AND THE NORTHERN LONG-EARED BAT WITHIN THE PROJECT AREA, TREES SHALL NOT BE CLEARED FROM APRIL 1 THROUGH SEPTEMBER 30.

TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED.

ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THIS WORK SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN EXPENSE OFFSITE.

THE EXACT CLEARING AND GRUBBING LOCATIONS ARE NOT PROVIDED ON THE PLANS. GENERAL LOCATION ARE NOTED. CLEARING AND GRUBBING SHALL NOT BE PAID FOR SEPARATELY.

TOPSOIL

IN GENERAL, TOPSOIL SHALL BE PLACED TO A DEPTH OF 6 INCHES. EXISTING TOPSOIL SHALL BE STOCKPILED AND RE-USED ONSITE.

THE CROSS SECTIONS INDICATE THE FINISHED GRADE OF TOPSOIL.

TOPSOIL SHALL NOT BE STOCKPILED WITHIN THE LIMITS OF THE REGULATORY 100-YEAR FLOODPLAIN. NOTE: AS A MAJORITY OF THE PROJECT AREA IS LOCATED WITHIN THE FLOODPLAIN, NO TOPSOIL OR EXCAVATION STOCKPILES SHALL REMAIN ONSITE FOR LONGER THAN 24-HOURS. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING STOCKPILE LOCATIONS OFFSITE, IF NECESSARY.

STORM SEWERS, STRUCTURES, & UTILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL AGENCIES MAINTAINING SANITARY SEWERS, WATERMAINS, AND STREET LIGHTS TO VERIFY THE MATERIALS AND METHODS ALLOWED FOR THE ADJUSTMENT OR PROTECTION OF THE UTILITY INVOLVED.

THE LOCATION AND ELEVATION OF EXISTING UTILITIES ARE APPROXIMATE. THE EXACT LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR THROUGH THE OWNER OF THE UTILITY.

ALL FIELD TILES ENCOUNTERED SHALL BE CAREFULLY PRESERVED AND CONNECTED TO PROPOSED DRAINAGE STRUCTURES, SEWERS OR DITCHES AS DIRECTED BY THE ENGINEER; THIS WORK WILL BE PAID AT THE APPLICABLE CONTRACT UNIT PRICE OR IN ACCORDANCE WITH ARTICLE 109.04.

SHOULD THE CONTRACTOR ENCOUNTER ANY DRAIN TILES, THE CONTRACTOR SHALL CONTACT THE OWNER OR ENGINEER IMMEDIATELY. ANY DAMAGES TO TILES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

HOT-MIX ASPHALT

HOT-MIX ASPHALT SURFACE COURSE SHALL NOT BE PLACED UNTIL ALL EARTH EXCAVATION AND AGGREGATE BASE COURSE HAVE BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER.

PAVEMENT STRIPING

ALL PROPOSED SEGMENTS OF THE TRAIL, EXCEPT WHERE NOTED ON THE PLANS, SHALL BE PAINTED WITH A SINGLE SOLID YELLOW PAVEMENT PAINT MARKING, 4" AT THE CENTERLINE OF THE PATH.

TRENCH BACKFILL

WHERE TRENCH BACKFILL IS REQUIRED, THE MATERIAL USED SHALL BE COMPACTED AS SPECIFIED IN ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS USING METHOD ONE. THE COST OF TRENCH BACKFILL SHALL NOT BE INCLUDED IN THE COST OF STORM SEWERS (OF THE TYPE AND DIAMETER SPECIFIED).

PATH EXCAVATION

THE CONTRACTOR WILL HAVE THE OPTION OF REMOVING THE EXISTING BITUMINOUS MATERIAL BY GRINDING OR EXCAVATING THE MATERIAL. IF THE BITUMINOUS MATERIAL IS REMOVED BY EXCAVATION, IT MAY NOT BE USED IN EMBANKMENT AREAS UNLESS SPECIFICALLY AUTHORIZED BY THE ENGINEER. BITUMINOUS MATERIAL REMOVED BY GRINDING MAY BE USED AS EMBANKMENT MATERIAL OR AS AGGREGATE BASE COURSE IF IT MEETS THE STANDARDS WITHIN THE SPECIAL PROVISIONS. NO BITUMINOUS MATERIAL SHALL BE REMOVED IN AREAS TO BE USED FOR TEMPORARY ACCESS.

THE CONTRACTOR SHALL NOT CROSS COMPLETED BASE COURSE OR EXISTING PAVEMENT, NOT SCHEDULED TO BE REMOVED, WITH ANY TRACKED EQUIPMENT.

ALL EMBANKMENTS AND SUB-GRADE SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER PRIOR TO PLACING AGGREGATE SUBGRADE OR SUBBASE GRANULAR MATERIAL. ALL EMBANKMENT AND SUBGRADE SHOULD BE CONSTRUCTED IN ACCORDANCE WITH SECTION 205 (EMBANKMENT) AND SECTION 300 (SUBGRADES, SUBBASES AND BASE COURSES) OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION AS WELL AS TO THE SATISFACTION OF THE ENGINEER.

THERE MAY BE AREAS INVOLVING DRAINAGE DITCHES, CULVERT ENTRANCES AND EXITS, AND DEPRESSIONAL PONDED AREAS THAT MAY HAVE DEPOSITS OF UNSUITABLE OR UNSTABLE MATERIAL. THESE AREAS MUST BE PUMPED DRY OF ANY WATER AND ALL UNSUITABLE/UNSTABLE MATERIAL REMOVED BEFORE ANY EMBANKMENT MATERIAL IS PLACED.

LEGEND

	EXISTING	PROPOSED
CURB & GUTTER	==========	
EDGE OF PAVEMENT	----------	
STORM SEWER	——▷——▷——	——▶——▶——
CHAIN LINK FENCE	—— x —— x ——	—— x —— x ——
PERIMETER EROSION BARRIER		——xx——xx——
TEMPORARY FENCE		x x x x
OVERHEAD WIRE	—— OH ——	
10-YR FLOODPLAIN	——10YR——	
100-YR FLOODPLAIN	——100YR——	
FLOODWAY	——FW——	
CONTOUR	—— 700 ——	——700——
MANHOLE	◎	◉
CATCH BASIN	○	●
INLET	▭	
STEEL END SECTION	▷	➤
CONC END SECTION	▱	▰
HYDRANT	♉	
HANDHOLE	▧	
UTILITY PEDESTAL	☐ PED	
UTILITY POLE	-○-	
UTILITY POLE W/STREET LIGHT	○-☼	
STREET LIGHT	○—☼	
STREET LIGHT CONTROLLER	⊠	
SIGN	▫	▪
TREE REMOVAL		⊘
TREE(DECICOUS)		
STONE RIPRAP		
STABILIZED CONSTRUCTION ENTRANCE		
WETLAND		
ASPHALT TRAIL		
PAVEMENT REMOVAL		
PERMANENT EASEMENT		//////////////////
CONSTRUCTION LIMITS		—— — ——

INDEX OF SHEETS

IDOT HIGHWAY STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602001-02	CATCH BASIN, TYPE A
602011-02	CATCH BASIN TYPE C
602401-06	PRECAST MANHOLE TYPE A
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS TYPE 1
604036-03	GRATE TYPE 8
664001-02	CHAIN LINK FENCE
701001-02	OFF-ROAD OPERATIONS: 2L, 2W, MORE THAN 15 FT. AWAY
701006-05	OFF-ROAD OPERATIONS: 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	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)

	HMA Surface
PG Grade	PG 64-22
Design Air Voids	4.0% @ N50
Mixture Composition	IL 9.5
Friction Aggregate	Mixture C
Density Test Method	LR 1030
Mixture Weight	112# / Sq. Yd. / In.
Quality Management Program	QC/QA
Sublot Size	N/A
Location(s)	Entire Project

SITE BENCHMARKS:

BM #1 SET "PK" NAIL IN EXISTING PAVEMENT S.W. CORNER PLEASANT ST. AND EAST PAGE ST. STA. 99+79.48, 16.37'LT.
ELEV: 833.32 (NAVD 88)

BM #2 CUT SQUARE ON OLD BRIDGE PIER STA. 118+47.55, 0.60'RT.
ELEV: 831.17 (NAVD 88)

BM #3 SET "PK" NAIL IN EXISTING PAVEMENT STA. 140+81.18, 11.31'RT.
ELEV: 838.66 (NAVD 88)

BM #4 SET "PK" NAIL STA. 106+77.18, 33.76'RT. (CONTROL POINT #47)
ELEV: 831.90 (NAVD 88)

BM #5 SET "PK" NAIL STA. 117+65.06, 114.43'RT, (CONTROL POINT #84)
ELEV: 827.54 (NAVD 88)

BM #6 SET "PK" NAIL STA. 123+89.08, 10.87'LT. (CONTROL POINT #76)
ELEV: 835.89 (NAVD 88)

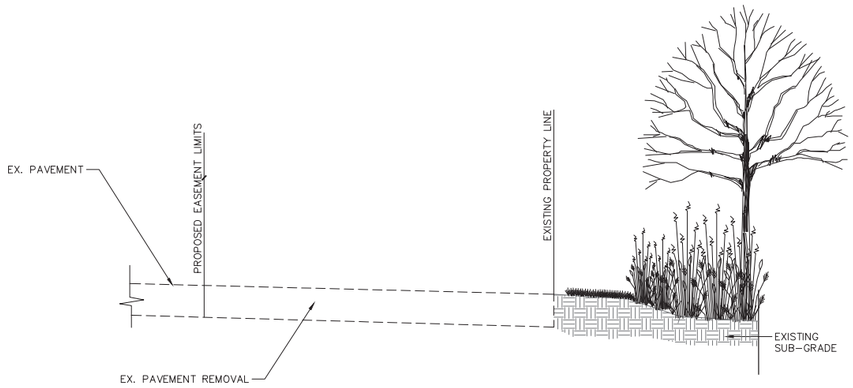
BM #7 SET "PK" NAIL STA. 130+00.51, 7.53'LT. (CONTROL POINT #71)
ELEV: 836.78 (NAVD 88)

BM #8 SET "PK" NAIL STA. 133+27.69, 1.07'RT. (CONTROL POINT#67)
ELEV: 836.85 (NAVD 88)

SUMMARY OF QUANTITIES

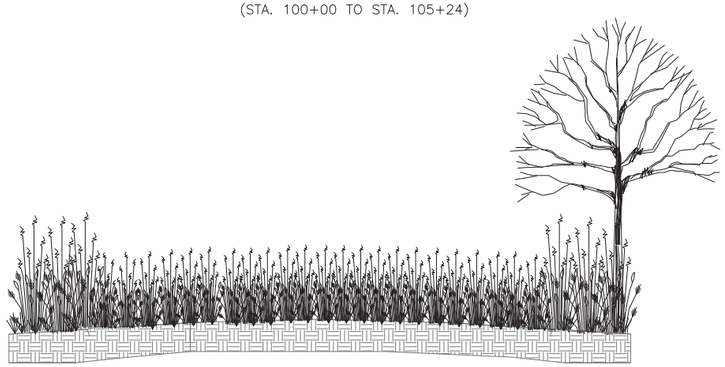
SPECIALTY ITEM	SPECIAL PROVISIONS	CODE NUMBER	ITEM	UNIT OF MEASURE	QUANTITY	Construction Code 0028 Federal 80%/Local 20%
	X	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	3,130	3,130
	X	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	505	505
		20101000	TEMPORARY FENCE	FOOT	445	445
*		20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	150	150
	X	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	310	310
		21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	930	930
	X	21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	6,200	6,200
*		25000115	SEEDING, CLASS 1B	ACRE	0.50	0.50
*		25000200	SEEDING, CLASS 2	ACRE	0.50	0.50
*		25000312	SEEDING, CLASS 4A	ACRE	4.00	4.00
*		25000314	SEEDING, CLASS 4B	ACRE	0.50	0.50
*		25100630	EROSION CONTROL BLANKET	SQ YD	25,250	25,250
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	550	550
		28000400	PERIMETER EROSION BARRIER	FOOT	1,200	1,200
		28000500	INLET AND PIPE PROTECTION	EACH	6	6
		28100105	STONE RIPRAP, CLASS A3	SQ YD	16	16
		28100107	STONE RIPRAP, CLASS A4	SQ YD	112	112
		28200200	FILTER FABRIC	SQ YD	128	128
	X	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	930	930
		35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	5,295	5,295
		40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	8,080	8,080
	X	40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	690	690
	X	44000100	PAVEMENT REMOVAL	SQ YD	1,690	1,690
		50200100	STRUCTURE EXCAVATION	CU YD	59	59
		50300225	CONCRETE STRUCTURES	CU YD	22	22
		50300300	PROTECTIVE COAT	SQ YD	415	415
		50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	29	29
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	9,950	9,950
		51100300	SLOPE WALL 6 INCH	SQ YD	21	21
		51200959	FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT	240	240
		51202305	DRIVING PILES	FOOT	240	240
		51203200	TEST PILE METAL SHELLS	EACH	2	2
		54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	2
		550B0050	STORM SEWERS, CLASS B, TYPE 1 12"	FOOT	282	282
		550B0090	STORM SEWERS, CLASS B, TYPE 1 18"	FOOT	14	14
		58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	56	56
		58700300	CONCRETE SEALER	SQ FT	118	118
		59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	63	63
		60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4
		60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1
		60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	3	3
		60220200	MANHOLES, TYPE A, 4'-DIAMETER	EACH	1	1
		60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1
*		66400205	CHAIN LINK FENCE, 5'	FOOT	650	650
*		66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	530	530
*		66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2
		67100100	MOBILIZATION	L SUM	1	1
		70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	1
		70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1
*		72000100	SIGN PANEL - TYPE 1	SQFT	24	24
*		72900100	METAL POST - TYPE A	FOOT	80	80
*		78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3,660	3,660
*		78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	10	10
	X	Z0004002	BOLLARDS	EACH	2	2
	X	Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	232	232
	X	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES, 4"	FOOT	171	171
#	X	Z0076604	TRAINEES	HOURS	1000	1000
#	X	Z0076604	TRAINEES TPG	HOURS	1000	1000
*	X	Z0077900	WOOD POST AND RAIL FENCE	FOOT	40	40
	X	X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1
	X	X0322508	PEDESTRIAN TRUSS SUPERSTRUCTURE	SQ FT	2410	2410
	X	X0325110	BIAXIAL GEOGRID	SQ YD	930	930
	X	X0350805	FOLD DOWN BOLLARDS	EACH	1	1
	X	X2020410	EARTH EXCAVATION, SPECIAL	CU YD	2,300	2,300
*	X	X5091730	BRIDGE FENCE RAILING SPECIAL	FOOT	400	400
	X	X6640302	CHAIN LINK FENCE REMOVAL (Special)	FOOT	365	365
	X	XX008287	BOARDWALK STRUCTURE	SQ FT	1320	1320
	X	XX009348	TIMBER STRINGER RECREATION BRIDGE, LOCATION 1	SQ FT	416	416
	X	XX009349	TIMBER STRINGER RECREATION BRIDGE, LOCATION 2	SQ FT	240	240

0042

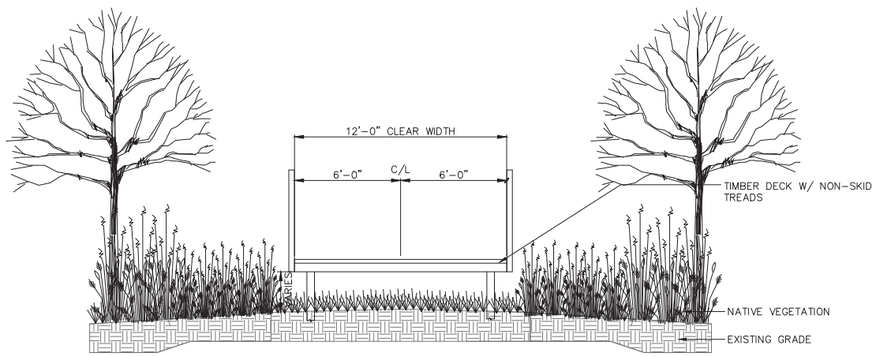


EXISTING TYPICAL SECTION
N.T.S

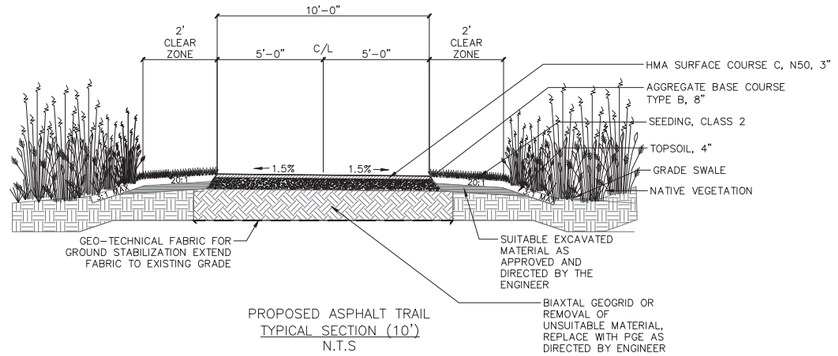
(STA. 100+00 TO STA. 105+24)



EXISTING TYPICAL SECTION
N.T.S
(STA. 105+24 TO STA. 116+78)
(STA. 118+82 TO STA. 140+73)

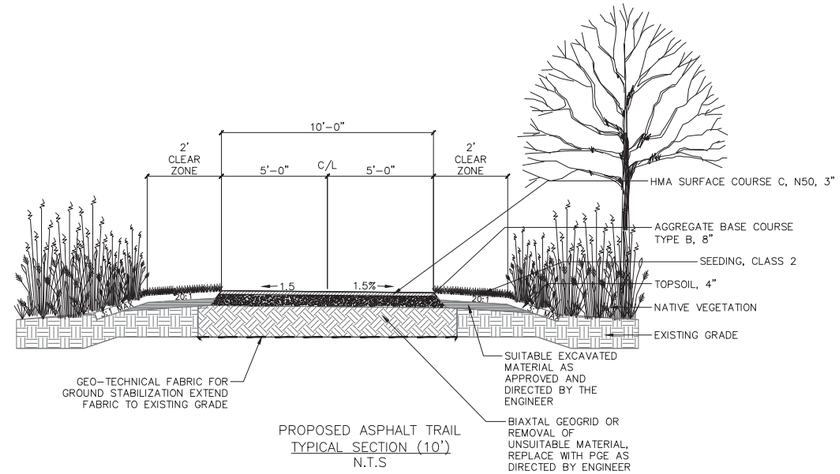


PROPOSED BOARDWALK
TYPICAL SECTION (12')
N.T.S
(STA. 112+22 TO STA. 112+42)
(STA. 112+72 TO STA. 112+92)
(STA. 114+37 TO STA. 115+27)

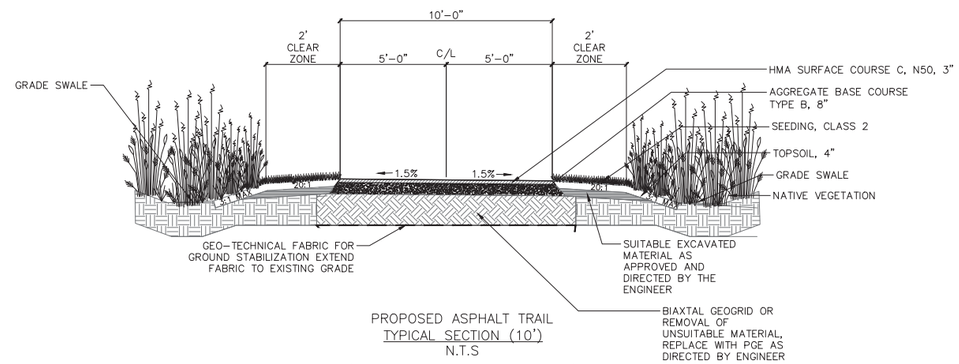


PROPOSED ASPHALT TRAIL
TYPICAL SECTION (10')
N.T.S

(STA. 101+50 TO STA. 107+50)
(STA. 115+27 TO STA. 116+00)



PROPOSED ASPHALT TRAIL
TYPICAL SECTION (10')
N.T.S
(STA. 116+00 TO STA. 116+78)
(STA. 118+82 TO STA. 138+50)
(STA. 140+25 TO STA. 140+73)



PROPOSED ASPHALT TRAIL
TYPICAL SECTION (10')
N.T.S
(STA. 100+00 TO STA. 101+50)
(STA. 107+50 TO STA. 112+22)
(STA. 112+92 TO STA. 114+37)
(STA. 138+50 TO STA. 140+23)

FILE NAME:\\erafs1\VA_drive\SycamoreParkDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 Typical X-Sec.dwg

ENGINEERING RESOURCE ASSOCIATES

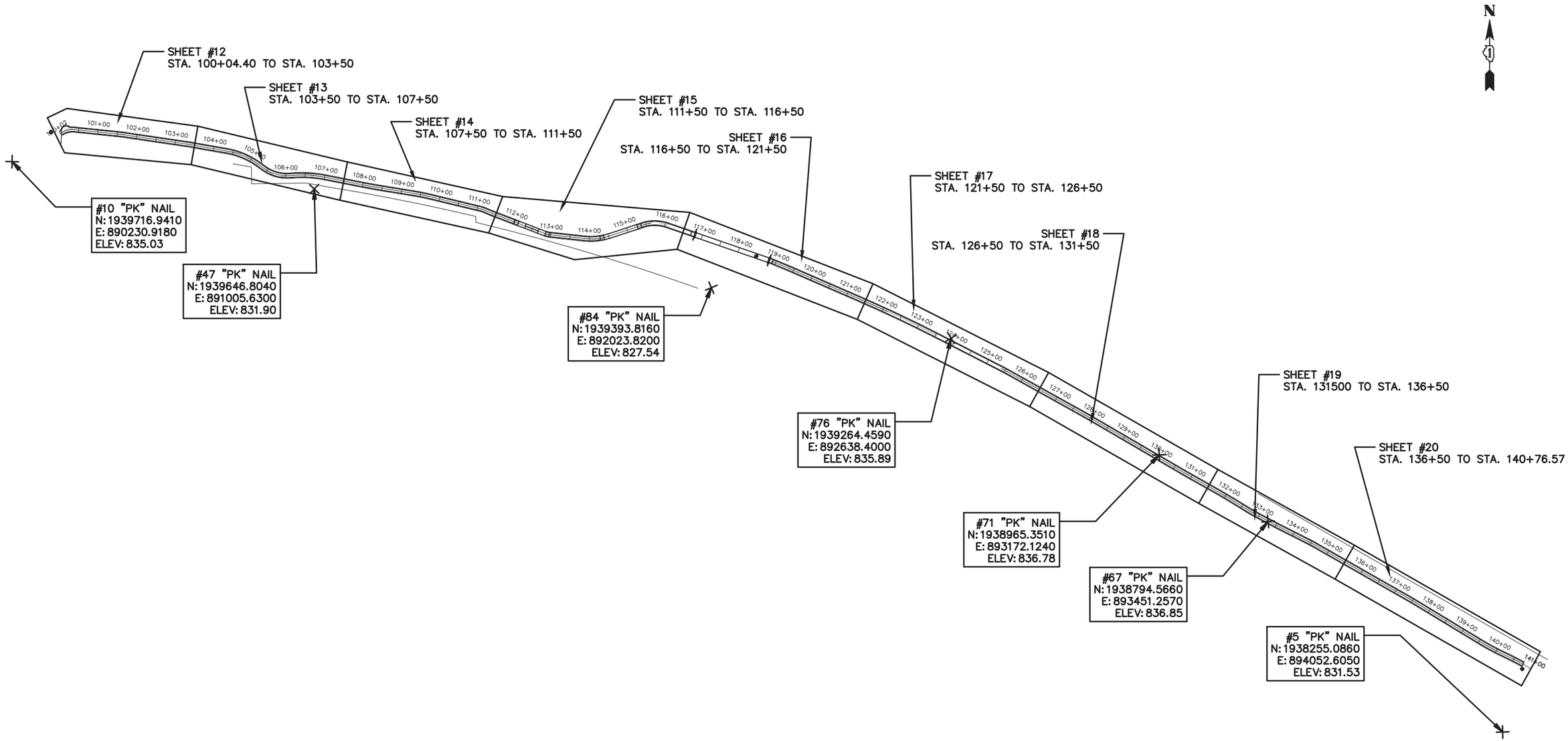
USER NAME = ozielinski	DESIGNED — _	REVISED — ___	
FILE NAME=	DRAWN — RT	REVISED — ___	
PLOT SCALE = $SCALE$	CHECKED — AK	REVISED — ___	
PLOT DATE = 11/18/2019	DATE — April, 2019	REVISED — ___	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
TYPICAL SECTIONS

SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS | STA. 100+00 TO STA. 140+98.10

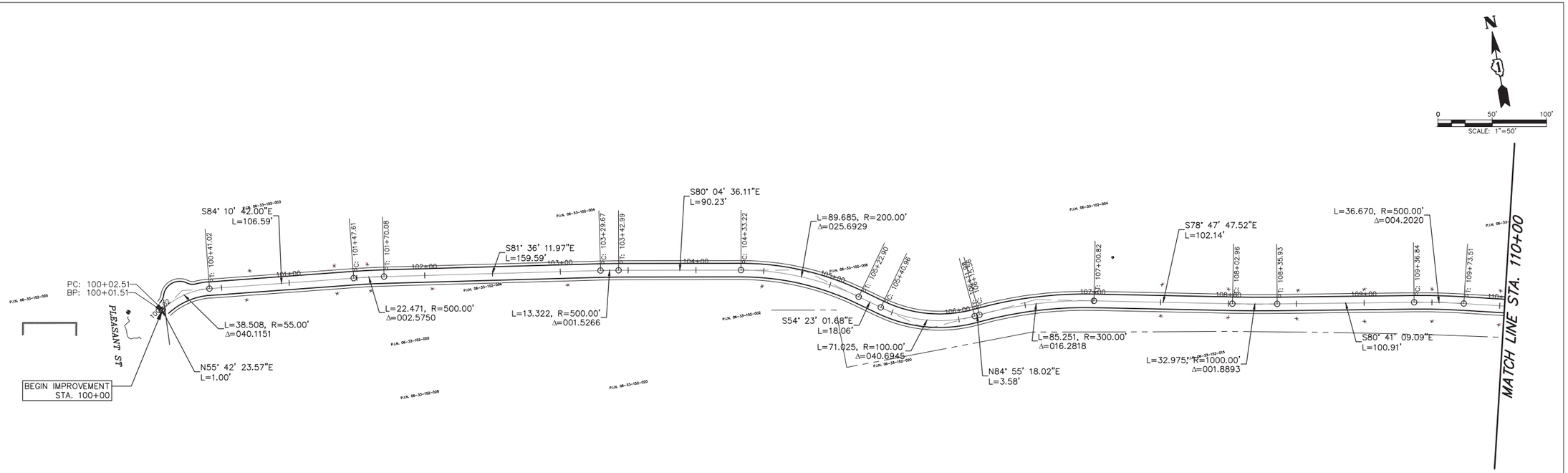
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	Dekalb	58	4
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

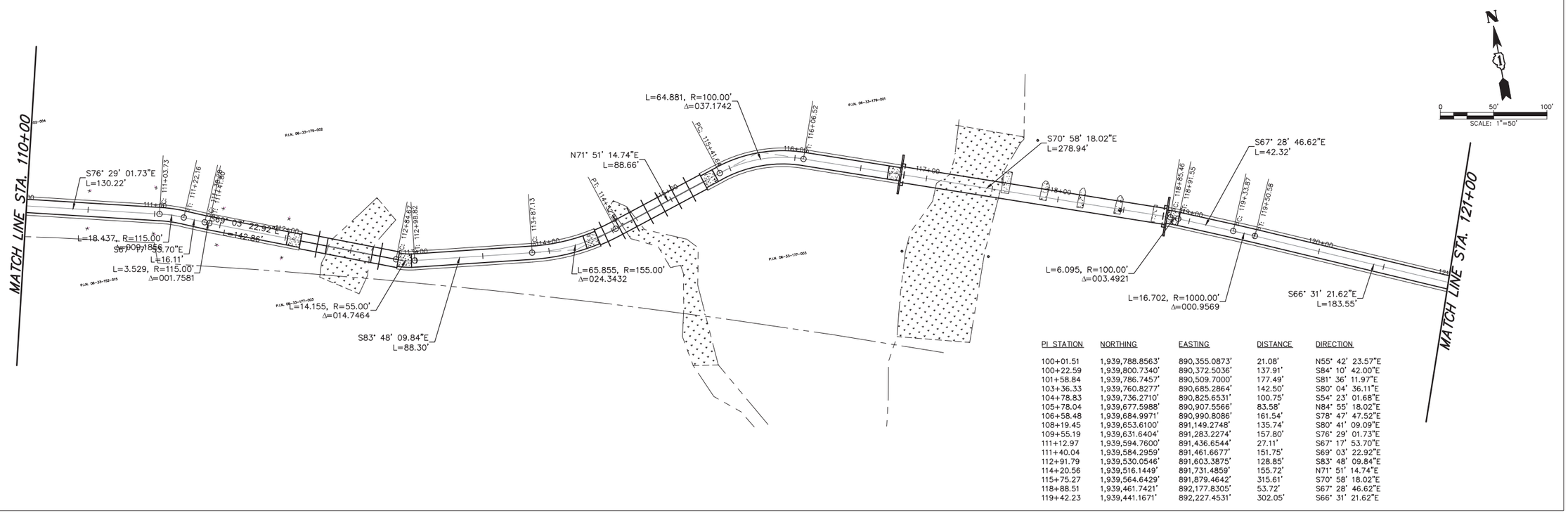


Updated by: azielinski 11/18/2019
\\eraofs1\H_drive\SycamoreParkDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 GreatWesternTrailExtension.dwg

ENGINEERING RESOURCE ASSOCIATES	USER NAME = azielinski	DESIGNED — AK	REVISED — ___	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SHEET KEY PLAN
		DRAWN — RT	REVISED — ___		SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS | STA. TO STA.
	PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___		
	PLOT DATE = 11/18/2019	DATE — July, 2019	REVISED — ___		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	DEKALB	58	5
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT __		





PI STATION	NORTHING	EASTING	DISTANCE	DIRECTION
100+01.51	1,939,788.8563'	890,355.0873'	21.08'	N55° 42' 23.57"E
100+22.59	1,939,800.7340'	890,372.5036'	137.91'	S84° 10' 42.00"E
101+58.84	1,939,786.7457'	890,509.7000'	177.49'	S81° 36' 11.97"E
103+36.33	1,939,760.8277'	890,685.2864'	142.50'	S80° 04' 36.11"E
104+78.83	1,939,736.2710'	890,825.6531'	100.75'	S54° 23' 01.68"E
105+78.04	1,939,677.5988'	890,907.5566'	83.58'	N84° 55' 18.02"E
106+58.48	1,939,684.9971'	890,990.8086'	161.54'	S78° 47' 47.52"E
108+19.45	1,939,653.6100'	891,149.2748'	135.74'	S80° 41' 09.09"E
109+55.19	1,939,631.6404'	891,283.2274'	157.80'	S76° 29' 01.73"E
111+12.97	1,939,594.7600'	891,436.6544'	27.11'	S67° 17' 53.70"E
111+40.04	1,939,584.2959'	891,461.6677'	151.75'	S69° 03' 22.92"E
112+91.79	1,939,530.0546'	891,603.3875'	128.85'	S83° 48' 09.84"E
114+20.56	1,939,516.1449'	891,731.4859'	155.72'	N71° 51' 14.74"E
115+75.27	1,939,564.6429'	891,879.4642'	315.61'	S70° 58' 18.02"E
118+88.51	1,939,461.7421'	892,177.8305'	53.72'	S67° 28' 46.62"E
119+42.23	1,939,441.1671'	892,227.4531'	302.05'	S66° 31' 21.62"E

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, GRADES CHECKED, NOTE BOOK, NO.; BY; DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, NOTE BOOK, NO.; STRUCTURE NO/ATHS CHKD; BY; DATE

FILE NAME: \\erafs1\H_drive\SycamoreParkDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 Alignment and Ties.dwg

ENGINEERING RESOURCE ASSOCIATES

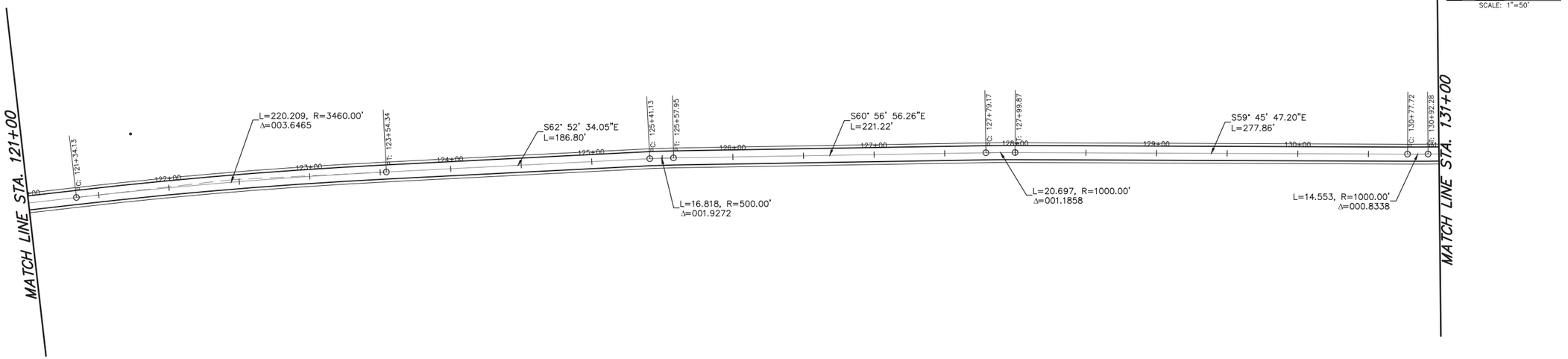
USER NAME = azielinski	DESIGNED — _	REVISED — ___	
FILE NAME=	DRAWN — RT	REVISED — ___	
PLOT SCALE = $SCALE$	CHECKED — AK	REVISED — ___	
PLOT DATE = 11/18/2019	DATE — July, 2019	REVISED — ___	

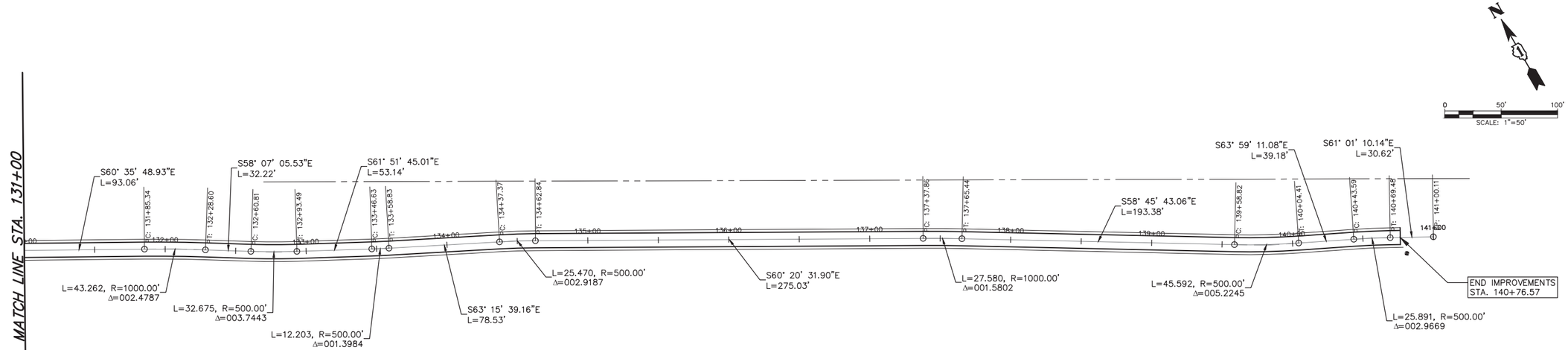
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
ALIGNMENT AND TIES

SCALE: 1"=50' | SHEET NO. 1 OF 2 SHEETS | STA. 100+00 TO STA. 121+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	Dekalb	58	6
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		





PI STATION	NORTHING	EASTING	DISTANCE	DIRECTION
122+44.27	1,939,320.8358'	892,504.4957'	305.35'	S62° 52' 34.05"E
125+49.54	1,939,181.6232'	892,776.2616'	239.98'	S60° 56' 56.26"E
127+89.52	1,939,065.0932'	892,986.0464'	295.48'	S59° 45' 47.20"E
130+85.00	1,938,916.2957'	893,241.3280'	121.97'	S60° 35' 48.93"E
132+06.97	1,938,856.4137'	893,347.5881'	70.19'	S58° 07' 05.53"E
132+77.16	1,938,819.3398'	893,407.1920'	75.59'	S61° 51' 45.01"E
133+52.73	1,938,783.6938'	893,473.8459'	97.37'	S63° 15' 39.16"E
134+50.10	1,938,739.8839'	893,560.8042'	301.56'	S60° 20' 31.90"E
137+51.65	1,938,590.6680'	893,822.8559'	229.98'	S58° 45' 43.06"E
139+81.63	1,938,471.4022'	894,019.4923'	74.94'	S63° 59' 11.08"E
140+56.54	1,938,438.5347'	894,086.8401'	43.57'	S61° 01' 10.14"E
141+00.11	1,938,417.4242'	894,124.9550'		

PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
BY: CIVIL/GRADES CHECKED
CADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK
NO.
SURVEYED
PLOTTED
GRADES CHECKED
ALIGNMENT CHECKED
STRUCTURE NOTATNS CH'KD
BY
DATE

FILE NAME: \\erafs1\VH_drive\SycamoreParkDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase III Engineering\CAD\160910.P2 Alignment and Ties.dwg

ENGINEERING RESOURCE ASSOCIATES

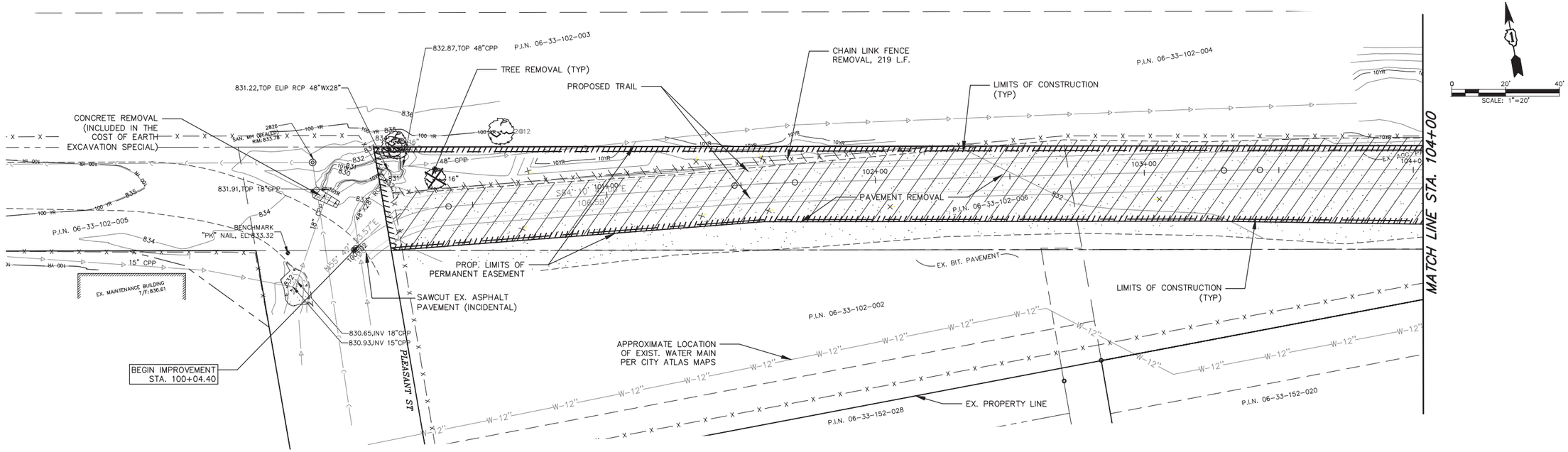
USER NAME = azielinski	DESIGNED — _	REVISED — ___
	DRAWN — RT	REVISED — ___
PLOT SCALE = $SCALE$	CHECKED — AK	REVISED — ___
PLOT DATE = 11/18/2019	DATE — July, 2019	REVISED — ___

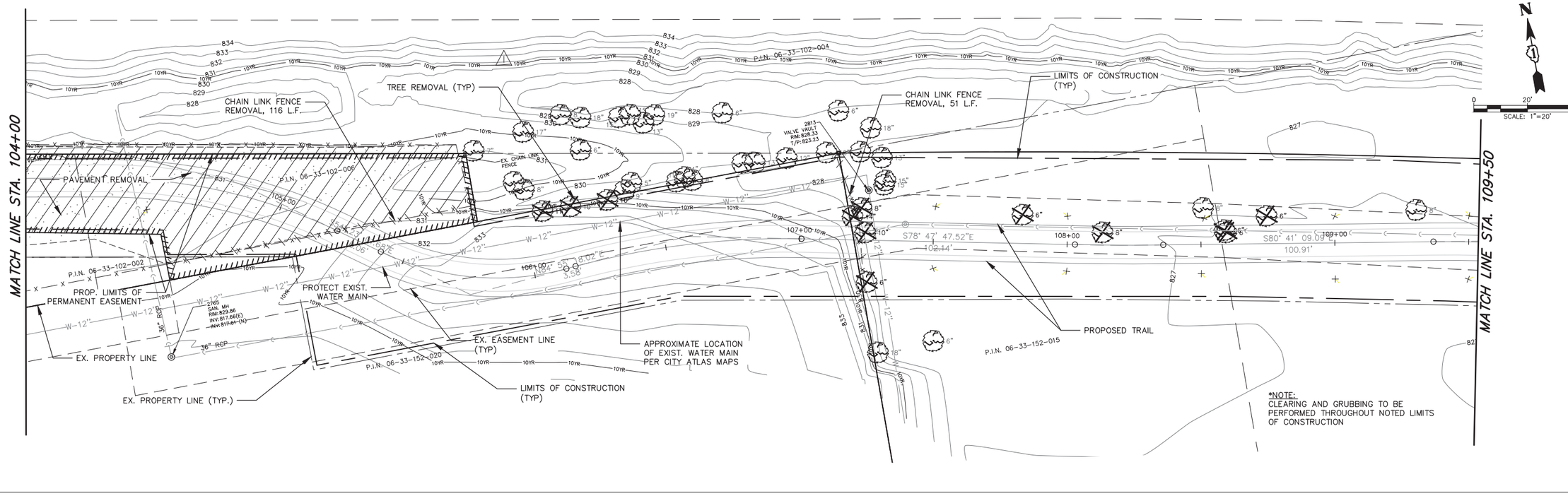
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
ALIGNMENT AND TIES

SCALE: 1"=50' | SHEET NO. 2 OF 2 SHEETS | STA. 121+00 TO STA. 140+76.57

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	Dekalb	58	7
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		





PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / GRADES CHECKED / MASTER CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / MASTER CADD FILE NAME / STRUCTURE NO(S). / NOTE BOOK / NO. / BY / DATE

FILE NAME: H:\SycamorePark District\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 GreatWesternTrailExtension Demolition.dwg

ENGINEERING RESOURCE ASSOCIATES

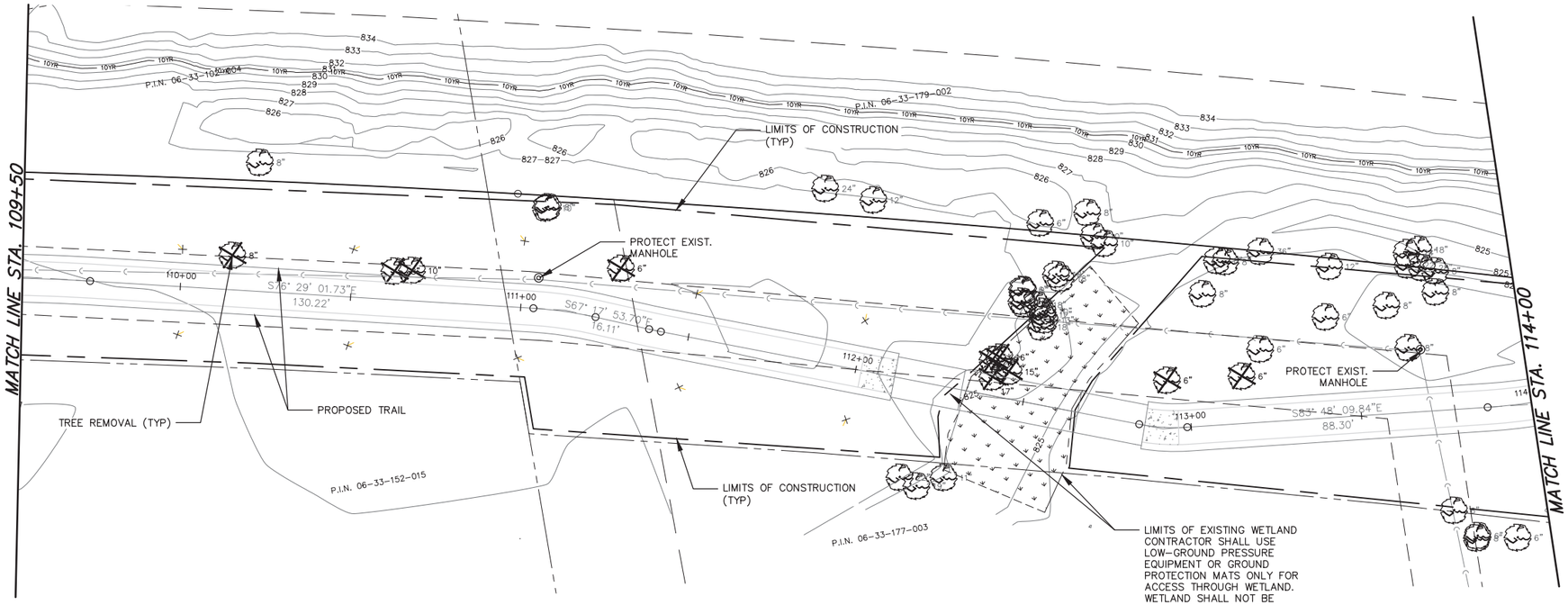
USER NAME = akustusch	DESIGNED - _	REVISED -	
FILE NAME=	DRAWN - RT	REVISED - ---	
PLOT SCALE = *SCALE*	CHECKED - AK	REVISED - ---	
PLOT DATE = 2/4/2020	DATE - June, 2019	REVISED - ---	

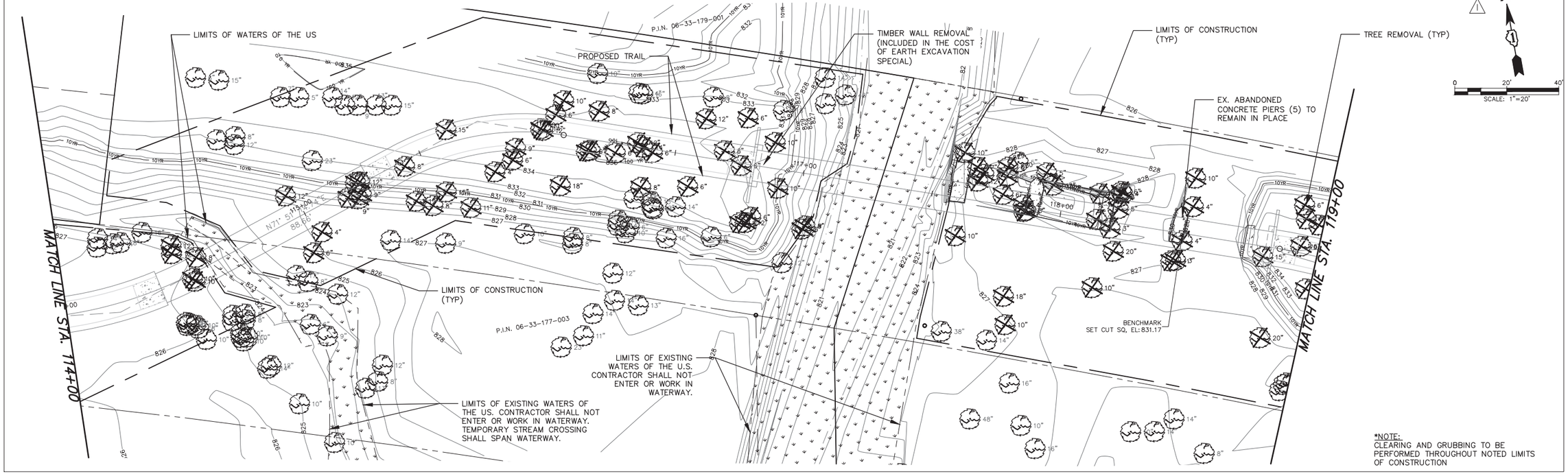
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
DEMOLITION PLAN

SCALE: 1"=20' | SHEET NO. 1 OF 4 SHEETS | STA. 100+00 TO STA. 109+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	18-P4006-01-BT	Dekalb	58	8
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		





PLAN

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

PROFILE

	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
NOTE BOOK		
NO.		
STRUCTURE NO(S).		
ATTYNKS CHKD		

FILE NAME: H:\SycamorePark District\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 GreatWesternTrailExtension Demolition.dwg

ENGINEERING RESOURCE ASSOCIATES

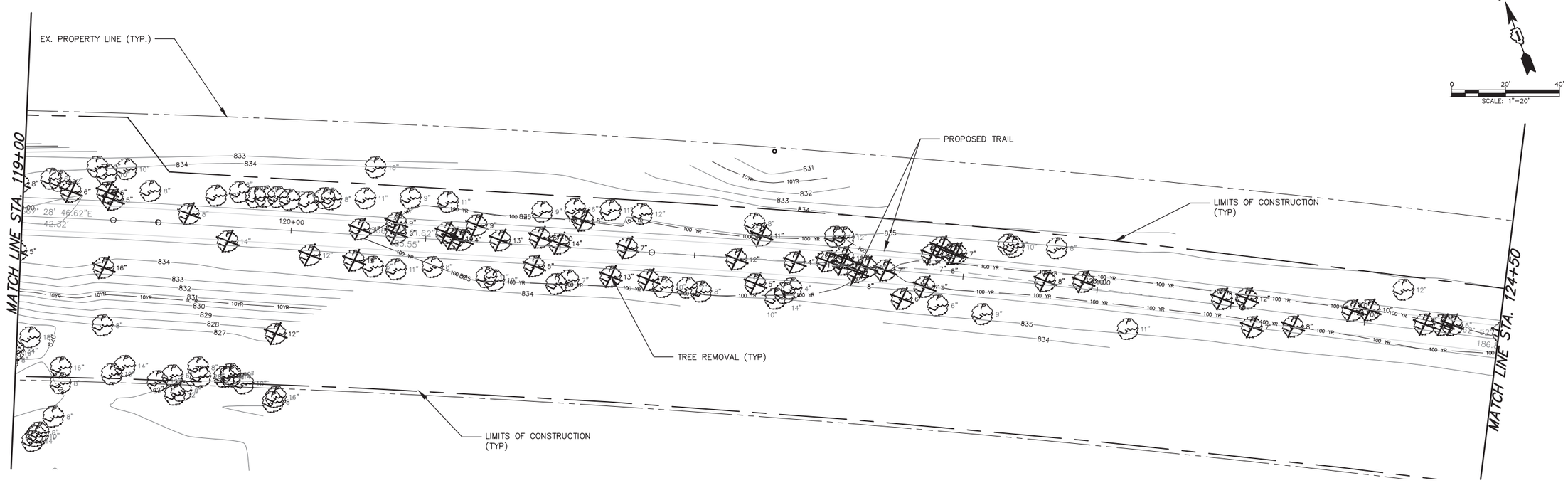
USER NAME = akustusch	DESIGNED - _	REVISED -
	DRAWN - RT	REVISED - ___
PLOT SCALE = *SCALE*	CHECKED - AK	REVISED - ___
PLOT DATE = 3/9/2020	DATE - April, 2019	REVISED - ___

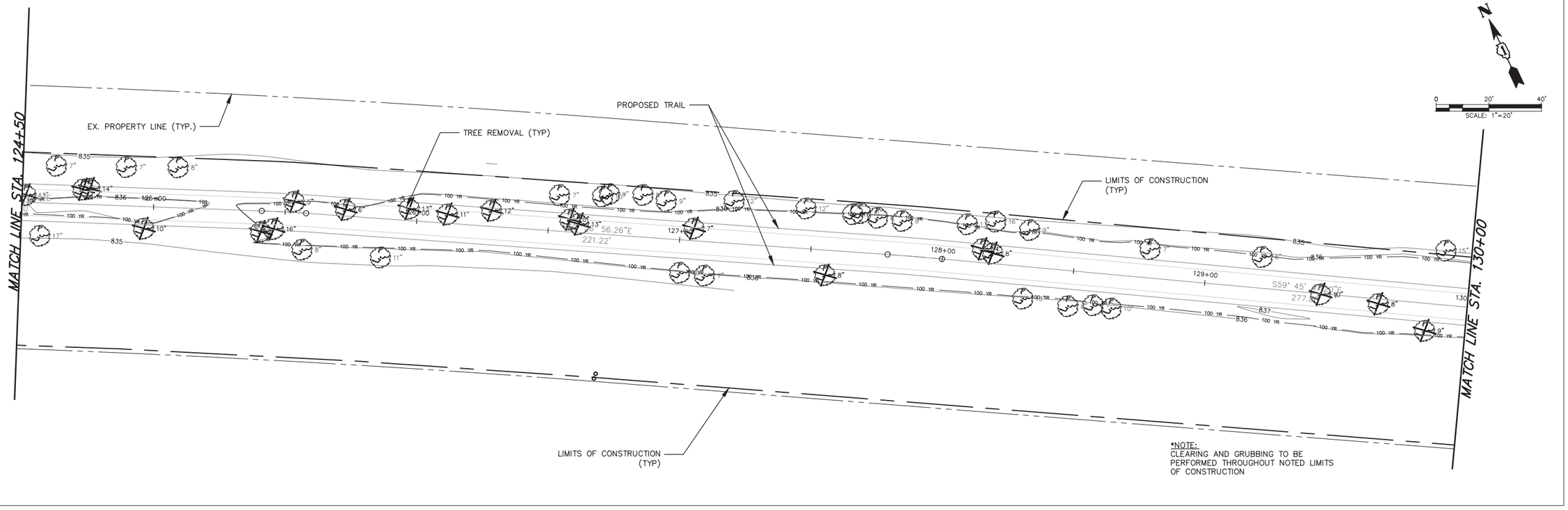
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
DEMOLITION PLAN

SCALE: 1"=20' | SHEET NO. 2 OF 4 SHEETS | STA. 109+50 TO STA. 119+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	Dekalb	58	9
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		





PLAN

NO.	NOTE BOOK	SURVEYED	PLOTTED	ALIGNMENT, CHECKED	BENCH MARK, CHECKED	CADD FILE NAME	BY	DATE

PROFILE

NO.	NOTE BOOK	SURVEYED	PLOTTED	GRADES CHECKED	BENCH MARK	STRUCTURE NO(S).	BY	DATE

FILE NAME: H:\SycamoreParkDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 GreatWesternTrailExtension Demolition.dwg

ENGINEERING RESOURCE ASSOCIATES

USER NAME = akustusch	DESIGNED - _	REVISED -
FILE NAME=	DRAWN - RT	REVISED - ---
PLOT SCALE = *SCALE*	CHECKED - AK	REVISED - ---
PLOT DATE = 2/4/2020	DATE - June, 2019	REVISED - ---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

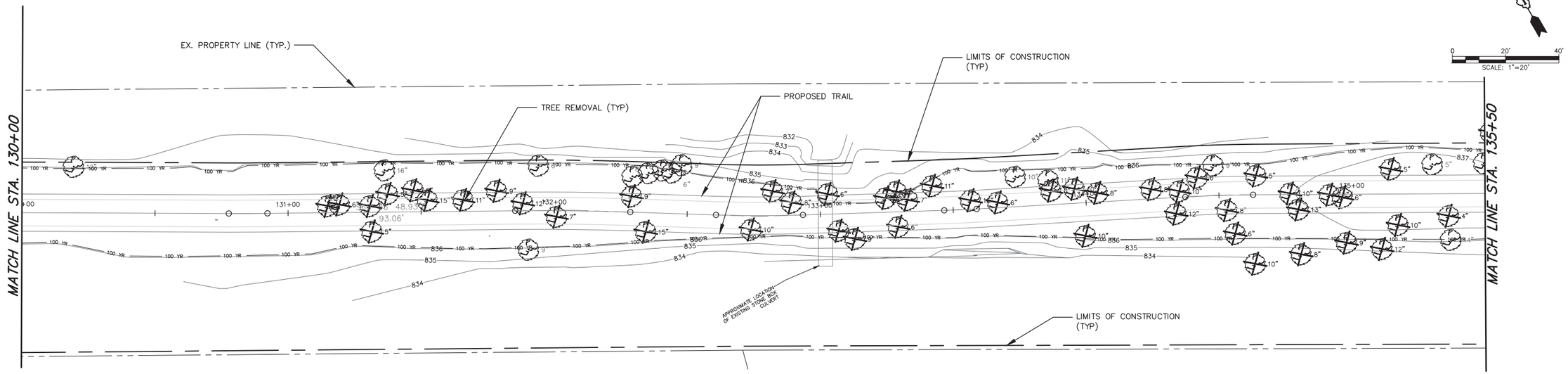
GREAT WESTERN TRAIL EXTENSION
DEMOLITION PLAN

SCALE: 1"=20' | SHEET NO. 3 OF 4 SHEETS | STA. 119+00 TO STA. 130+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	18-P4006-01-BT	Dekalb	58	10
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

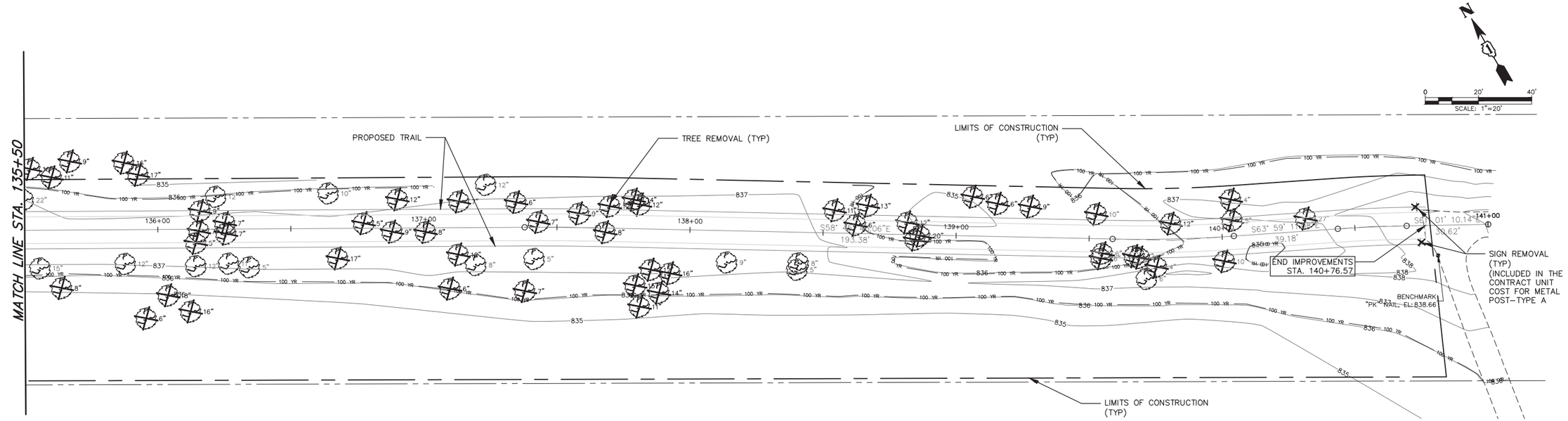
PLAN

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



PROFILE

BY	DATE
SURVEYED	
PLOTTED	
GRADES CHECKED	
NOTE BOOK	
NO.	
STRUCTURE NO(S).(ATMS CHKD	



*NOTE:
CLEARING AND GRUBBING TO BE PERFORMED THROUGHOUT NOTED LIMITS OF CONSTRUCTION

TIMBER RETAINING WALLS ALONG EAST SIDE OF TRAIL SHALL REMAIN IN PLACE.

FILE NAME: H:\SycamorePark District\160910.00 Great Western Trail Extension\160910.P2 Phase II Engineering\CAD\160910.P2 Great Western Trail Extension Demolition.dwg

ENGINEERING RESOURCE ASSOCIATES

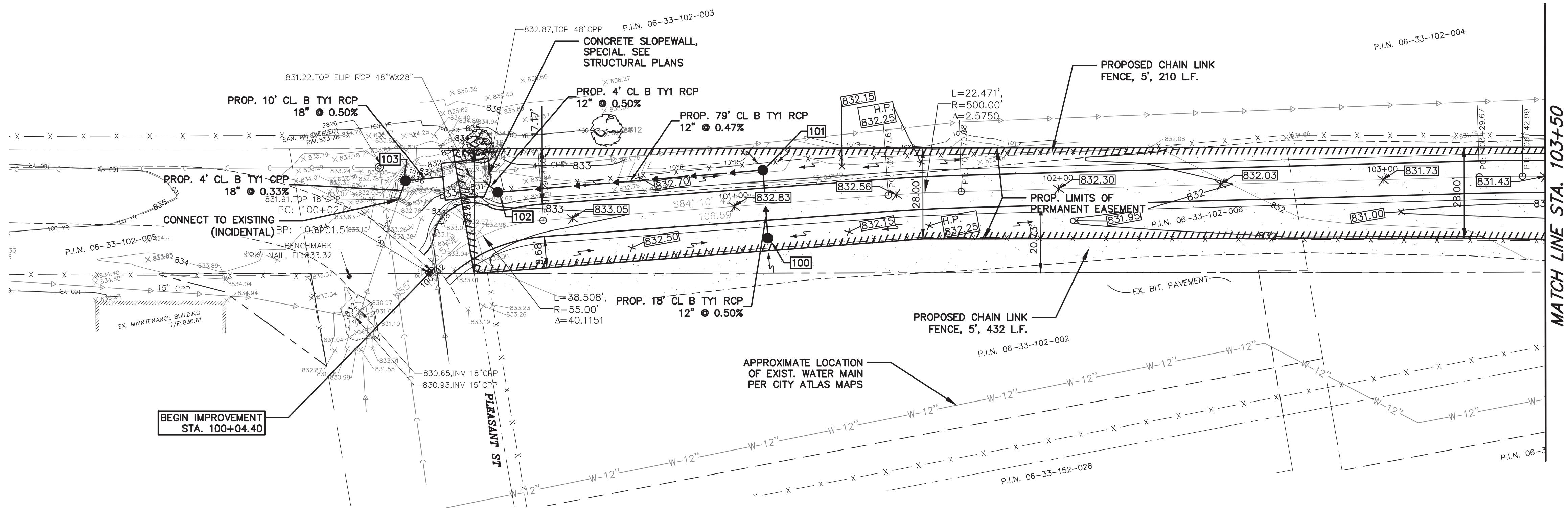
USER NAME = akustusch	DESIGNED - _	REVISED -
	DRAWN - RT	REVISED - ___
PLOT SCALE = *SCALE*	CHECKED - AK	REVISED - ___
PLOT DATE = 2/4/2020	DATE - June, 2019	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
DEMOLITION PLAN

SCALE: 1"=20' | SHEET NO. 4 OF 4 SHEETS | STA. 130+00 TO STA. 140+76.57

F.A.. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	Dekalb	58	11
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



NO 10-YEAR FLOODPLAIN IN THIS AREA (ELEV. 830.60)

ENTIRE AREA IS WITHIN 100-YEAR FLOODPLAIN (ELEV. 835.0)

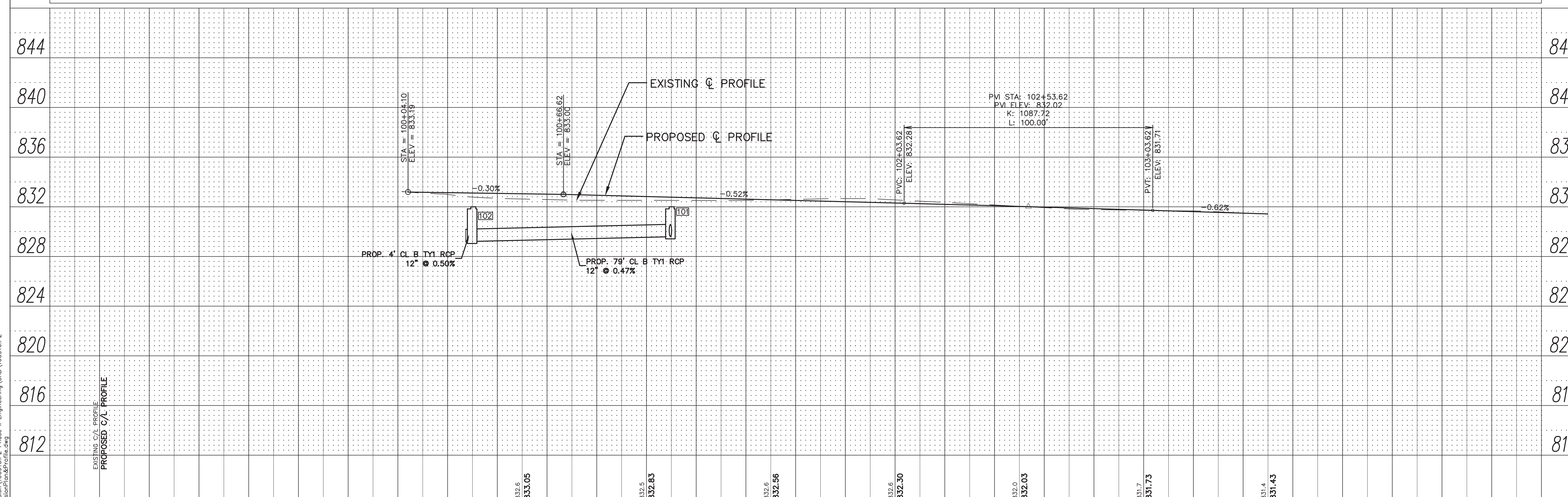
PROPOSED STORM SEWER SCHEDULE

100
101+09.62, 10.5'RT
CB TYC, 2'ø, TYPE 8 GRATE
R: 832.00
I: 829.69 (12",N)

101
101+09.62, 10.5'LT
CB TYC, 2'ø, TYPE 8 GRATE
R: 832.00
I: 829.59 (12",S)
I: 829.59 (12",W)

102
100+29.86, 11.0'LT
CB TYC, 2'ø, TYPE 8 GRATE
R: 832.00
I: 829.21 (12",E)
I: 829.21 (12",NW)

103
100+11.71, 26.5'LT
CB TYA, 4'ø, TY1 F.O.L.
R: 832.90
I: 830.39 (18",SW)
I: 830.39 (18",E)



PLAN	
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	
NOTE BOOK	NO.___

PROFILE	
SURVEYED	
PLOTTED	
GRADES CHECKED	
B.M. NOTED	
STRUCTURE NOTAT'NS CH'KD	
NOTE BOOK	NO.___

FILE NAME: \\erafs1\H_drive\SycamoreParkDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 GreatWesternTrailExtensionPlan&Profile.dwg

ENGINEERING RESOURCE ASSOCIATES

USER NAME = azielinski	DESIGNED — AK	REVISED — ___	
FILE NAME=	DRAWN — RT	REVISED — ___	
PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___	
PLOT DATE = 11/18/2019	DATE — July, 2019	REVISED — ___	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
PLAN AND PROFILE

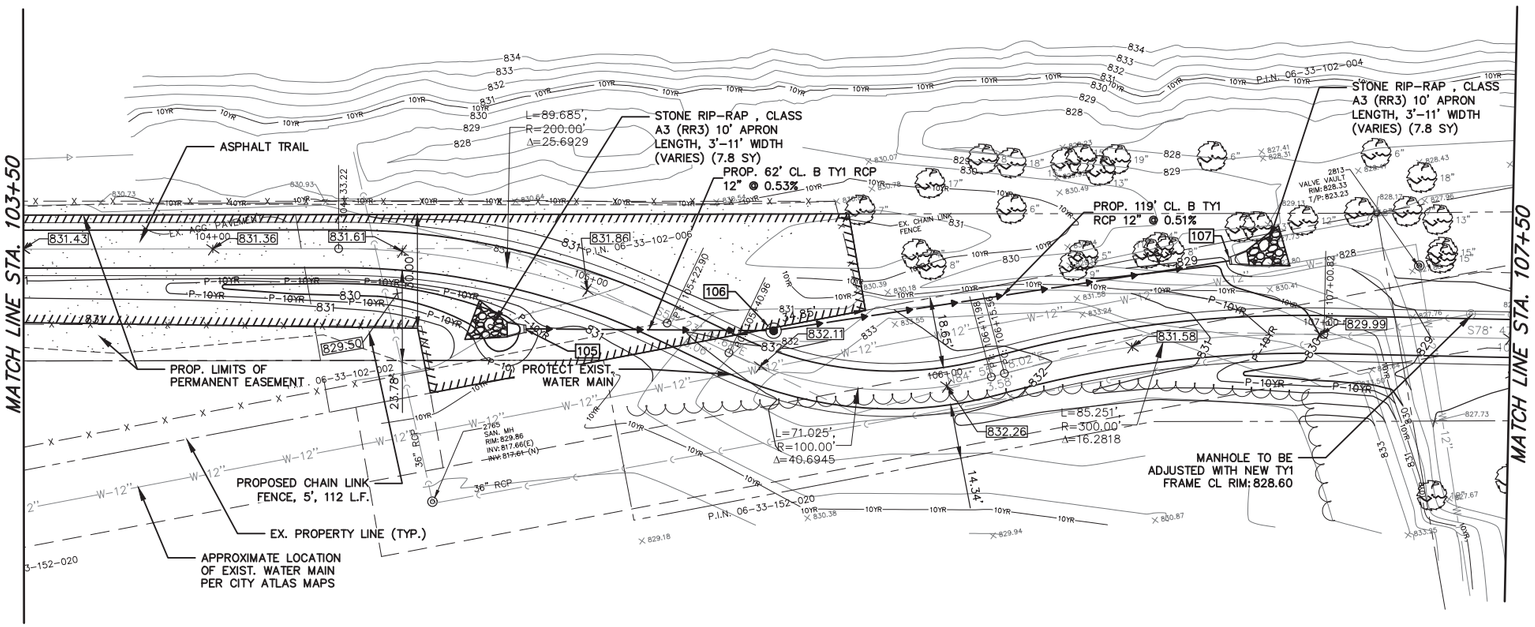
SCALE: 1"=20' | SHEET NO. 1 OF 9 SHEETS | STA. 100+00 TO STA. 103+50

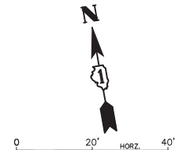
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	Dekalb	58	12

CONTRACT NO. 87730

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

ENTIRE AREA IS WITHIN
100-YEAR FLOODPLAIN
(ELEV. 835.0)



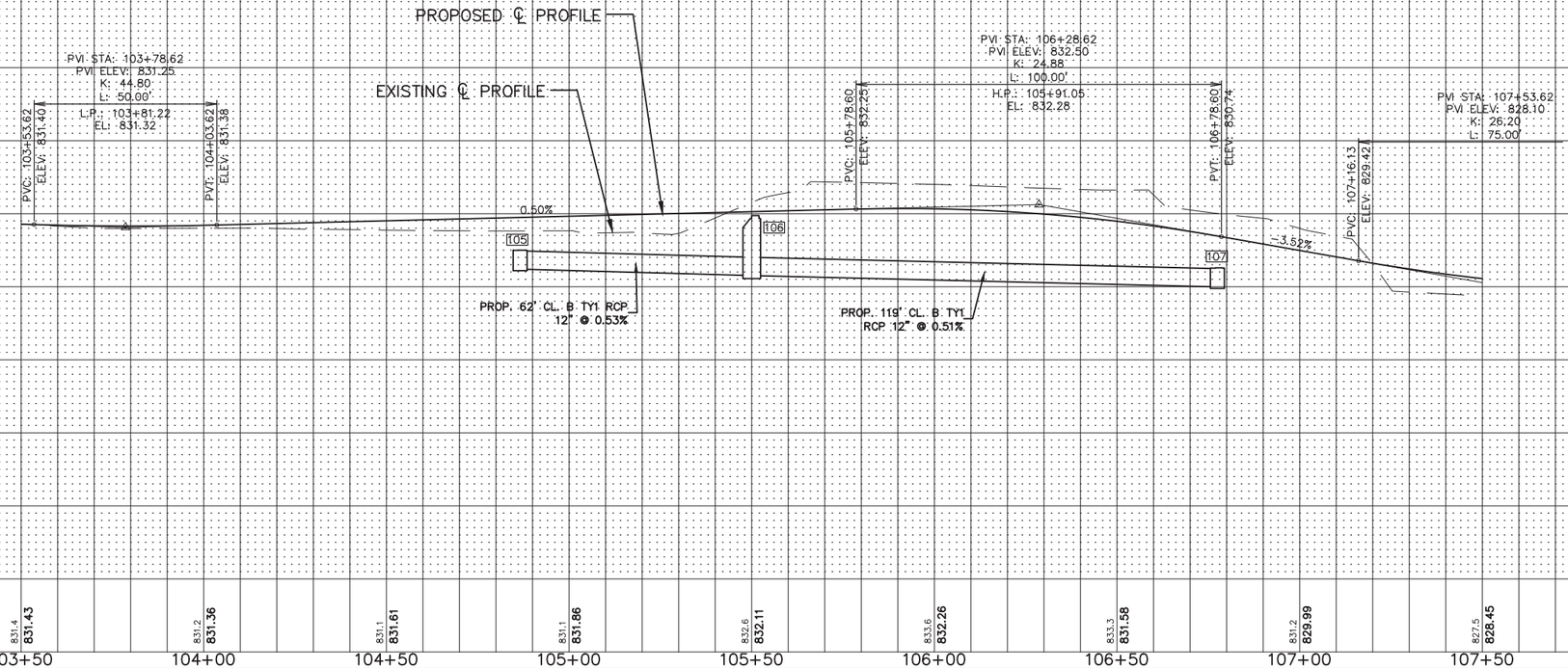


PROPOSED STORM SEWER SCHEDULE

105
104+86.63, 14.6'RT
PRECAST REINFORCED CONCRETE
FLARED END SECTION, 12"
I: 828.96 (12",E)

106
105+50.00, 10.0'LT
MH TYC 2'ø, TY1 F.C.L.
R: 831.90
I: 828.61 (12",W)
I: 828.61 (12",E)

107
106+77.46, 20.0'LT
PRECAST REINFORCED CONCRETE
FLARED END SECTION, 12"
I: 827.99 (12",W)



EXISTING C/L PROFILE
PROPOSED C/L PROFILE

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
GRADES CHECKED
NOTE BOOK
NO.
STRUCTURE NOTATNS CHKD
BY
DATE

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

FILE NAME: \\erafs11\H_drive\SycamoreParkDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 GreatWesternTrailExtensionPlan&Profile.dwg

ENGINEERING RESOURCE ASSOCIATES

USER NAME = azielinski	DESIGNED — AK	REVISED — ___
FILE NAME=	DRAWN — RT	REVISED — ___
PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___
PLOT DATE = 11/18/2019	DATE — July, 2019	REVISED — ___

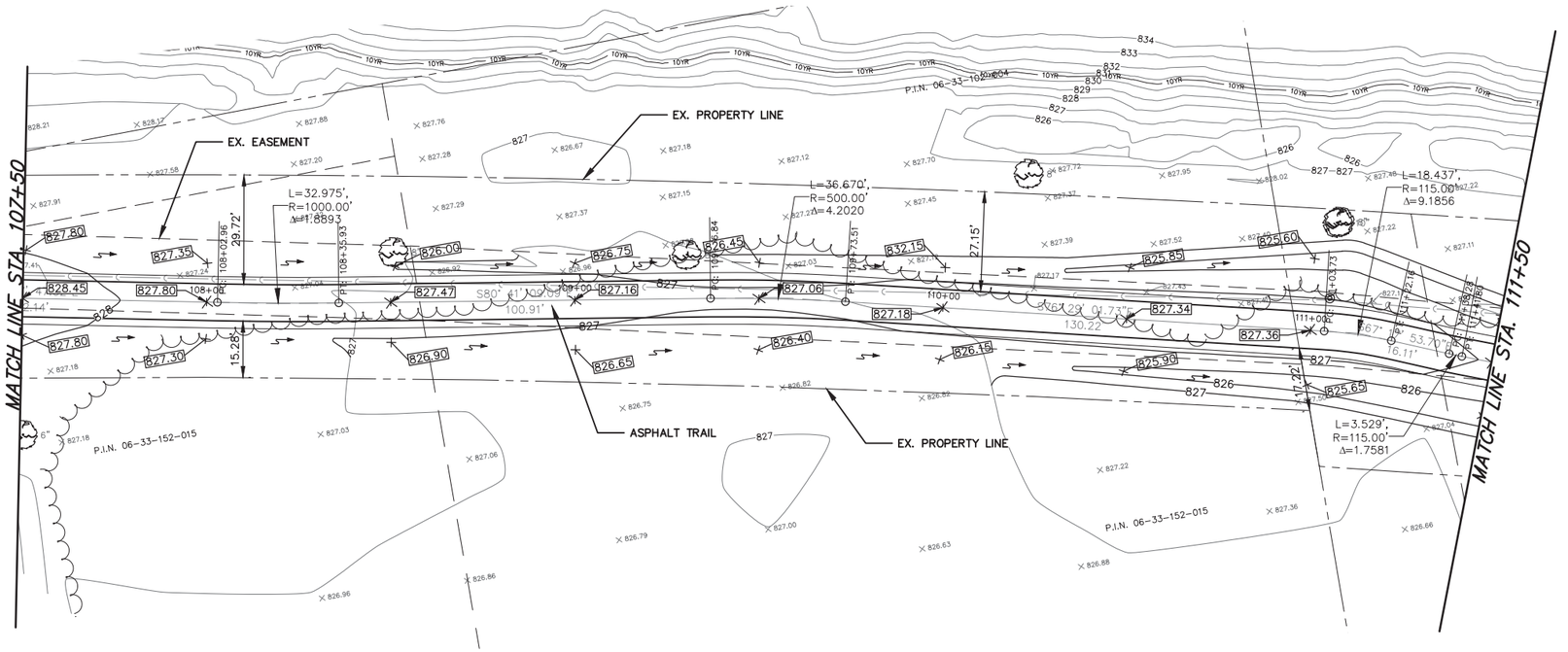
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 2 OF 9 SHEETS | STA. 103+50 TO STA. 107+50

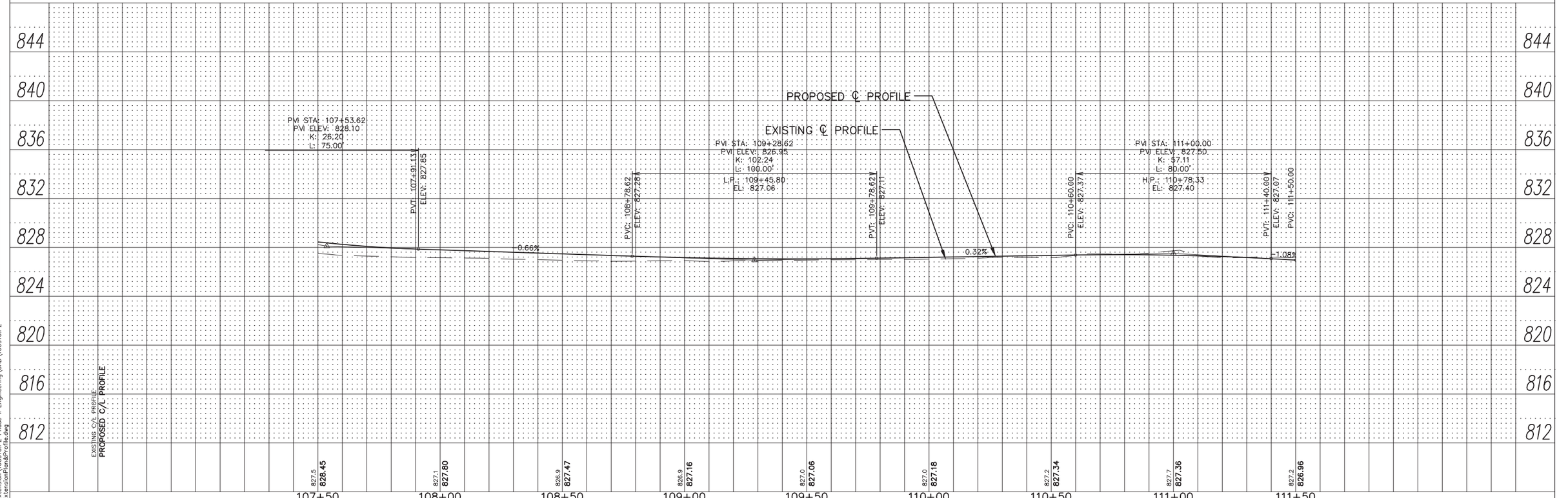
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	Dekalb	58	13
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RE. DWN. WAS CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE



ENTIRE AREA IS WITHIN
100-YEAR FLOODPLAIN
(ELEV. 835.0)

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
NOTE BOOK
NO.
BY
DATE



EXISTING C/L PROFILE
PROPOSED C/L PROFILE

FILE NAME: \\erafs11\H_drive\SycamorePark District\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 GreatWesternTrailExtensionPlan&Profile.dwg

ENGINEERING RESOURCE ASSOCIATES

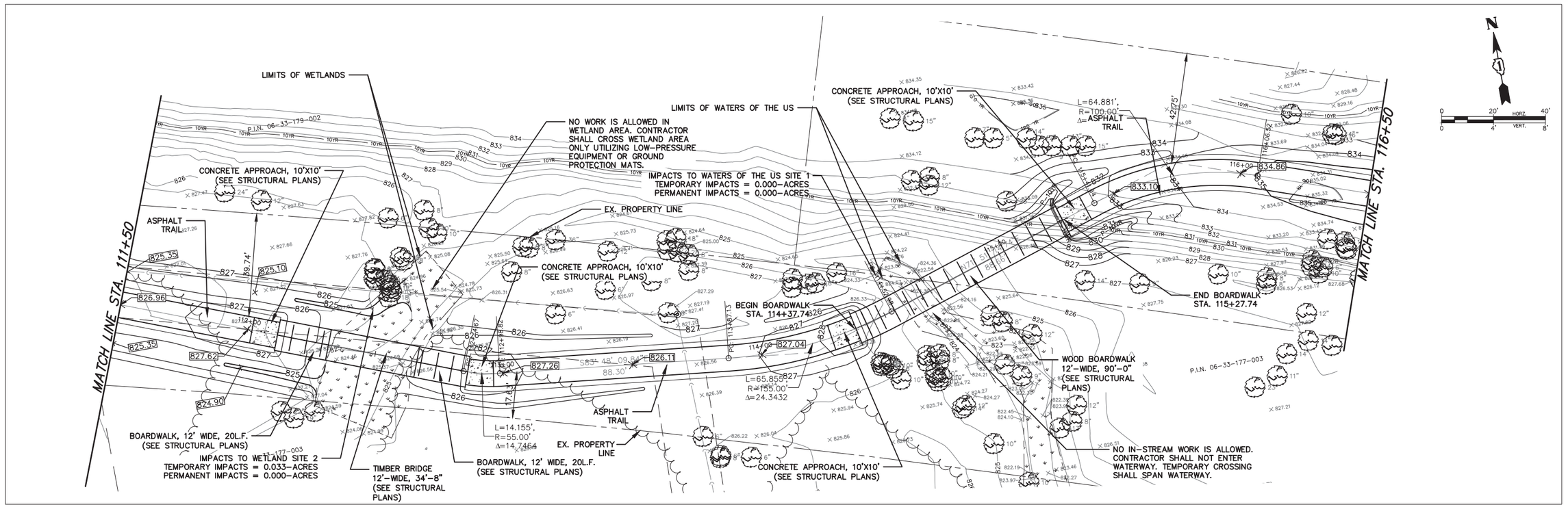
USER NAME = azielinski	DESIGNED — AK	REVISED — ___
	DRAWN — RT	REVISED — ___
PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___
PLOT DATE = 11/18/2019	DATE — July, 2019	REVISED — ___

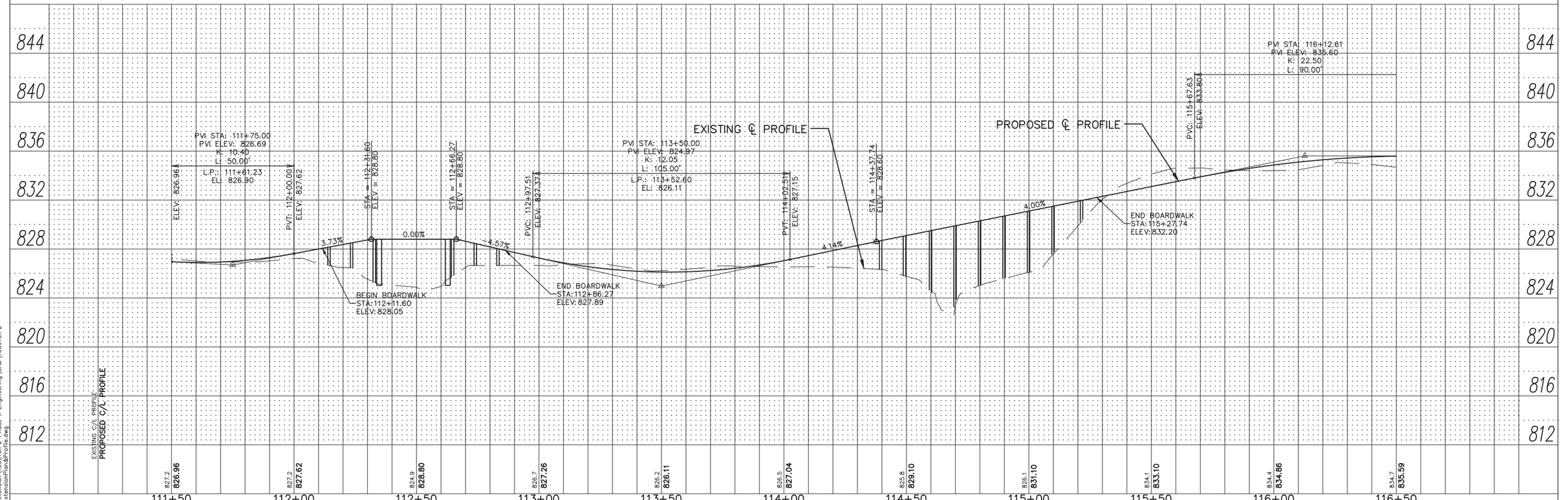
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 3 OF 9 SHEETS | STA. 107+50 TO STA. 111+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	Dekalb	58	14
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		





PLAN — SURVEYED | PLOTTED | ALIGNMENT CHECKED | GRADES CHECKED | NOTE BOOK | NO. | DATE | BY

PROFILE — SURVEYED | PLOTTED | GRADES CHECKED | NOTE BOOK | NO. | STRUCTURE NO.TAT'NS CHKD | DATE | BY

FILE NAME: H:\SycamoreParkDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 GreatWesternTrailExtensionPlan&Profile.dwg

ENGINEERING RESOURCE ASSOCIATES

USER NAME = akustusch	DESIGNED - AK	REVISED - ---
	DRAWN - RT	REVISED - ---
PLOT SCALE = $SCALE$	CHECKED - JM	REVISED - ---
PLOT DATE = 3/9/2020	DATE - July, 2019	REVISED - ---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 4 OF 9 SHEETS | STA. 111+50 TO STA. 116+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	18-P4006-01-BT	Dekalb	58	15
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

LIMITS OF WATERS OF THE US

MATCH LINE STA. 116+50

MATCH LINE STA. 121+50

ASPHALT TRAIL

10' WOOD POST & RAIL FENCE (SEE DETAIL)

PIN 06-33-178-007

PROPOSED BRIDGE ABUTMENTS (SEE STRUCTURAL PLANS)

PRE-FABRICATED PEDESTRIAN BRIDGE (SEE STRUCTURAL PLANS)

EX. PROPERTY LINE (TYP.)

10' WOOD POST & RAIL FENCE (SEE DETAIL)

L=6.095'
R=100.00'
Δ=3.492°

L=16.702',
R=1000.00'
Δ=0.956°

10'X10' APPROACH SLAB (SEE STRUCTURAL PLANS)

NO IN-STREAM WORK IS ALLOWED. CONTRACTOR SHALL NOT ENTER WATERWAY.

BENCHMARK
SET CUT SQ, EL: 831.17

IMPACTS TO WATERS OF THE US SITE 2
TEMPORARY IMPACTS = 0.00-ACRES
PERMANENT IMPACTS = 0.00-ACRES

BRIDGE AND ABUTMENT INSTALLATION STAGING AREA

N

0 20' 40' HORZ.
0 4' 8' VERT.

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

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
NOTE BOOK
NO.
STRUCTURE NOTAT'NS CHKD
BY
DATE

PVI: 116+57.63
ELEV: 835.60

STA: 116+81.47
ELEV: 835.60

STA: 118+81.47
ELEV: 835.60

STA: = 118+93.46
ELEV: = 835.60

PVC: 119+09.16
ELEV: 835.39

PVI STA: 119+34.16
PVI ELEV: 835.06
K: 32.14
L: 50.00'
L.P.: 119+51.81
EL: 835.11

PVT: 119+59.16
ELEV: 835.12

0.00%

1.33%

0.23%

PROPOSED ℄ PROFILE

EXISTING ℄ PROFILE

EXISTING C/L PROFILE
PROPOSED C/L PROFILE

116+50	117+00	117+50	118+00	118+50	119+00	119+50	120+00	120+50	121+00	121+50
834.7 / 835.59	827.9 / 835.60	823.1 / 835.60	829.7 / 835.60	827.7 / 835.60	835.0 / 835.51	834.9 / 835.11	834.8 / 835.21	835.1 / 835.32	835.2 / 835.44	835.3 / 835.55

USER NAME = akustusch	DESIGNED - AK	REVISED - ---	
FILE NAME=	DRAWN - RT	REVISED - ---	
PLOT SCALE = $SCALE$	CHECKED - JM	REVISED - ---	
PLOT DATE = 3/9/2020	DATE - July, 2019	REVISED - ---	

ENGINEERING RESOURCE ASSOCIATES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
PLAN AND PROFILE

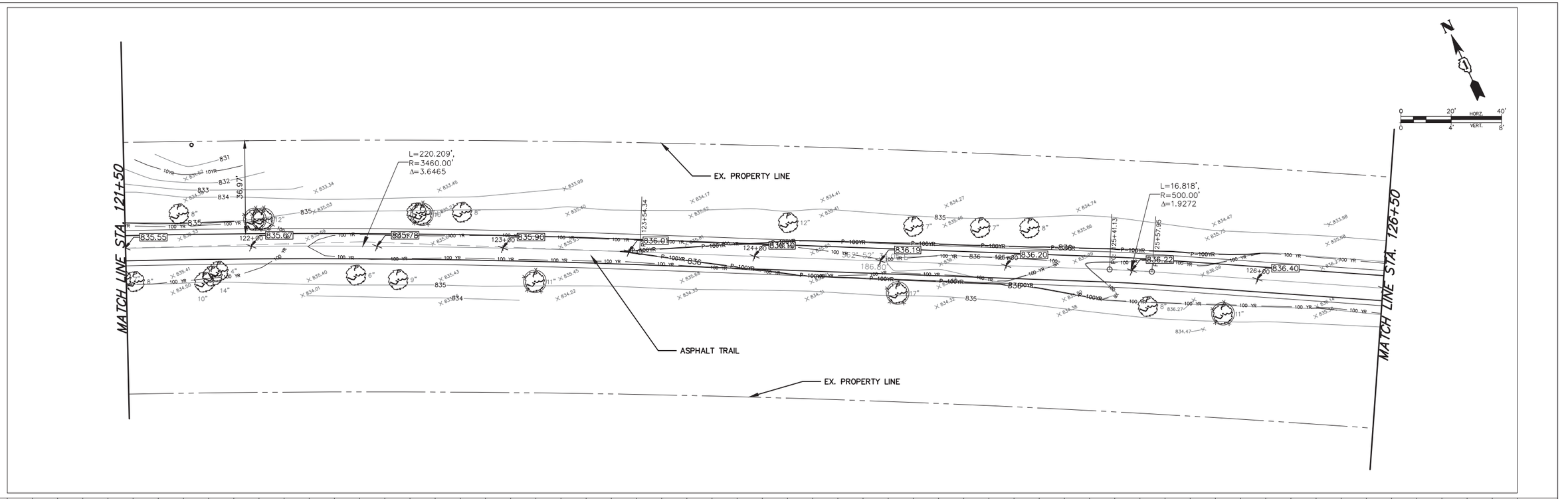
SCALE: 1"=20' | SHEET NO. 5 OF 9 SHEETS | STA. 116+50 TO STA. 121+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	18-P4006-01-BT	Dekalb	58	16
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

FILE NAME: H:\SycamorePark District\160910.00 Great Western Trail Extension\160910.P2 Phase II Engineering\CAD\160910.P2 Great Western Trail Extension Plan & Profile.dwg

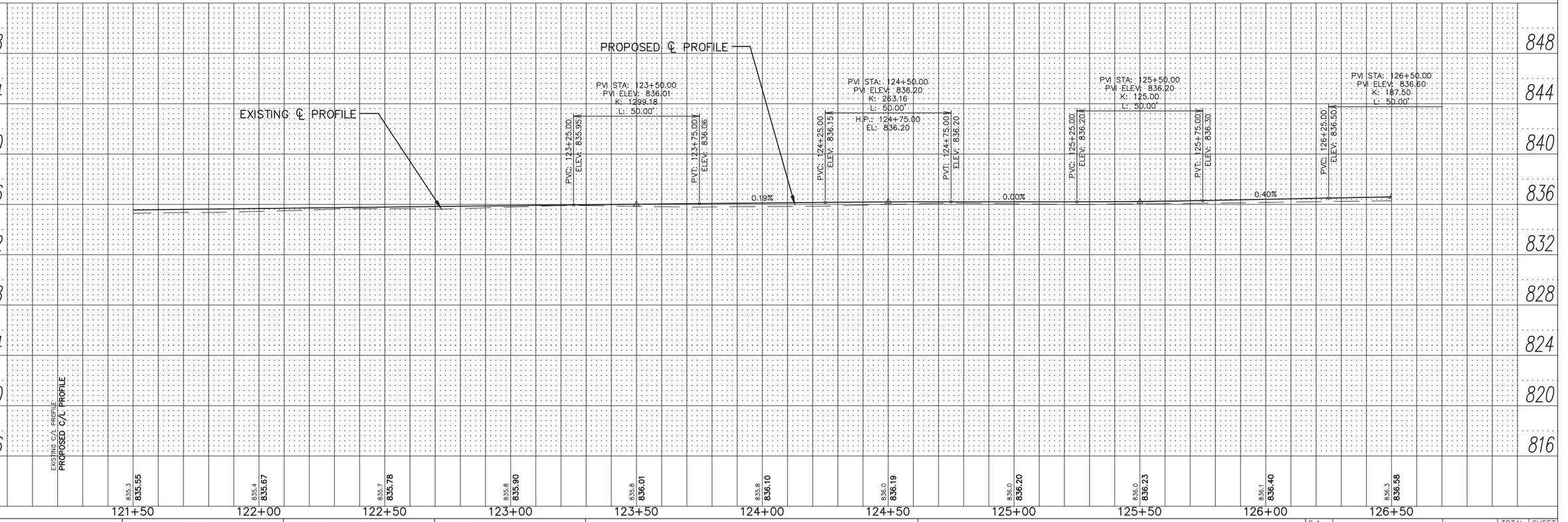
PLAN

BY	DATE
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
GRADES CHECKED	
STRUCTURE NOTATNS CHKD	
NOTE BOOK	
NO.	



PROFILE

BY	DATE
SURVEYED	
PLOTTED	
GRADES CHECKED	
MATERIAL NOTED	
STRUCTURE NOTATNS CHKD	
NOTE BOOK	
NO.	



FILE NAME: \\erafs11\H_drive\SycamoreParkDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 GreatWesternTrailExtensionPlan&Profile.dwg

ENGINEERING RESOURCE ASSOCIATES

USER NAME = azielinski	DESIGNED — AK	REVISED — ___
	DRAWN — RT	REVISED — ___
PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___
PLOT DATE = 11/18/2019	DATE — July, 2019	REVISED — ___

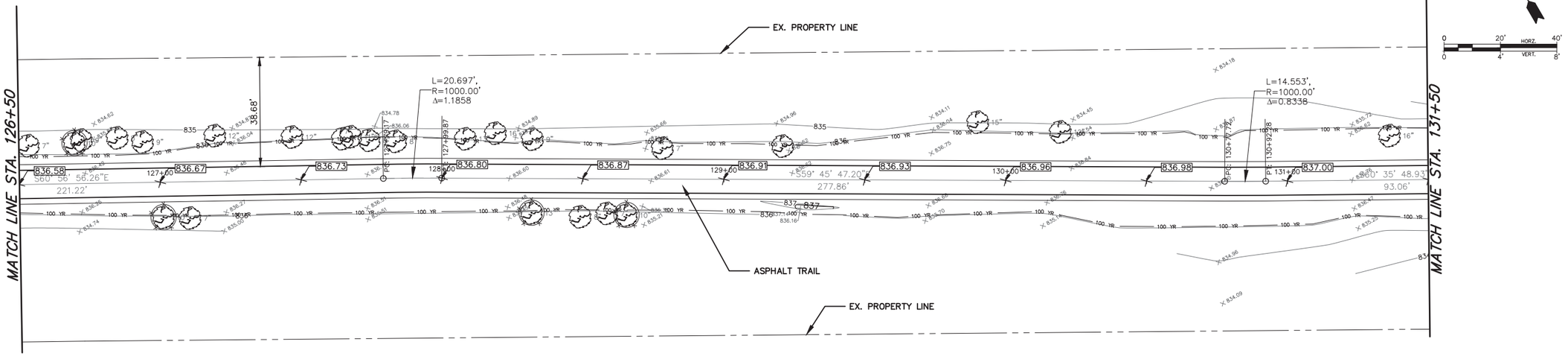
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

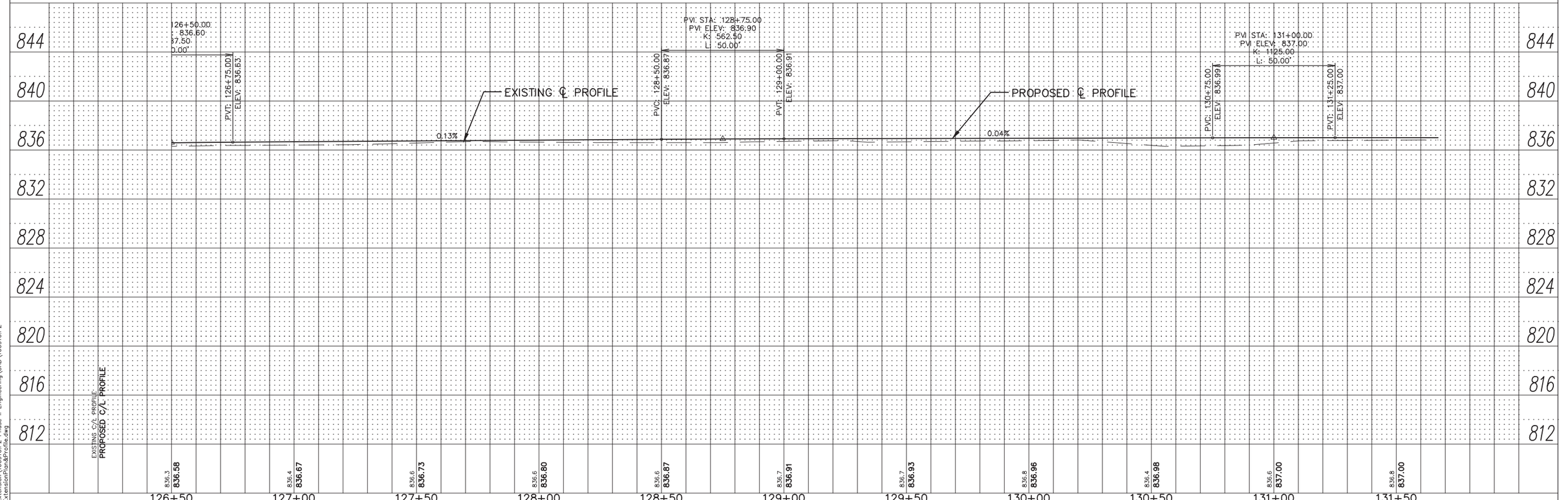
GREAT WESTERN TRAIL EXTENSION
PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 6 OF 9 SHEETS | STA. 121+50 TO STA. 126+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18–P4006–01–BT	Dekalb	58	17
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

NO 10-YEAR FLOODPLAIN IN THIS AREA (ELEV. 832.4)





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

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
BY: DATE WAS CHECKED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

FILE NAME: \\erafs11\H_drive\SycamoreParkDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 GreatWesternTrailExtensionPlan&Profile.dwg

ENGINEERING RESOURCE ASSOCIATES

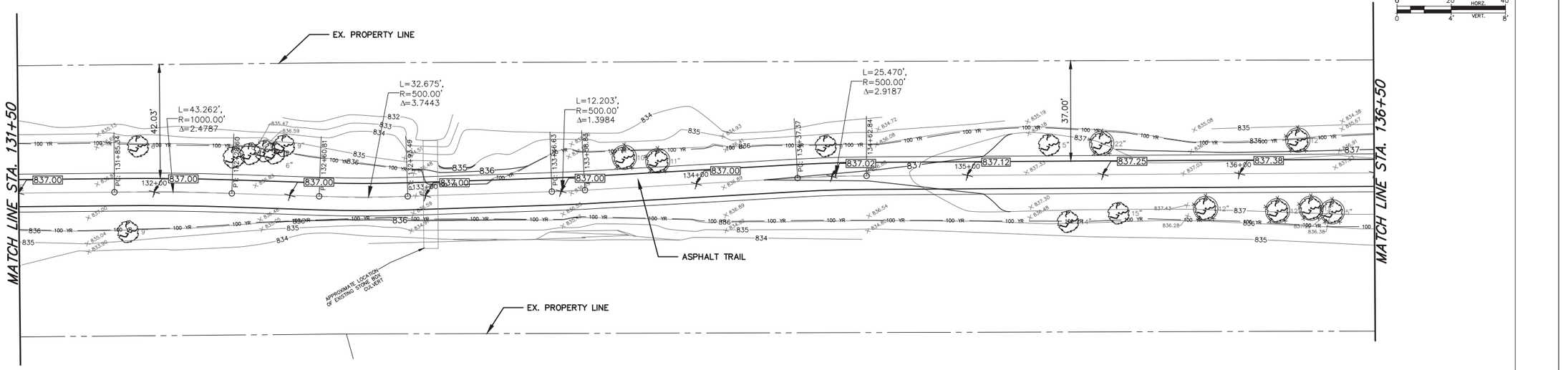
USER NAME = azielinski	DESIGNED — AK	REVISED — ___
	DRAWN — RT	REVISED — ___
PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___
PLOT DATE = 11/18/2019	DATE — July, 2019	REVISED — ___

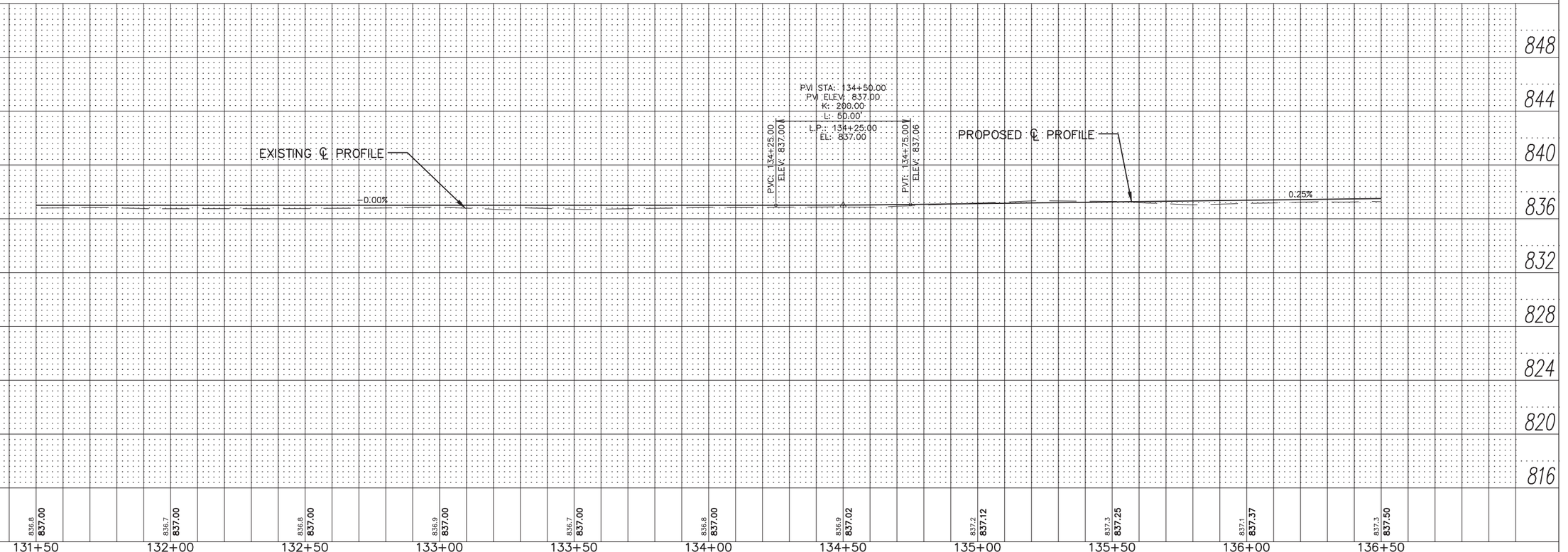
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 7 OF 9 SHEETS | STA. 126+50 TO STA. 131+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	Dekalb	58	18
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		





PLAN: SURVEYED; PLOTTED; CROSS CHECKED; ALIGNMENT CHECKED; RT. OF WAY CHECKED; NOTE BOOK; NO.; CADD FILE NAME; BY; DATE

PROFILE: SURVEYED; PLOTTED; CROSS CHECKED; B.M. NOTED; STRUCTURE NO(ATN'S CHKD

\\erafs1\H_drive\SycamorePark District\160910.00 Great Western Trail Extension\160910.P2 Phase II Engineering\CAD\160910.P2 Great Western Trail Extension Plan & Profile.dwg

ENGINEERING RESOURCE ASSOCIATES	USER NAME = azielinski	DESIGNED — AK	REVISED — ___
		DRAWN — RT	REVISED — ___
	PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___
	PLOT DATE = 11/18/2019	DATE — July, 2019	REVISED — ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
PLAN AND PROFILE

SCALE: 1"=20' | SHEET NO. 8 OF 9 SHEETS | STA. 131+50 TO STA. 136+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	DuPage	58	19
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

NO 10-YEAR FLOODPLAIN IN THIS AREA (ELEV. 832.6)

EX. PROPERTY LINE

MATCH LINE STA. 136+50

L=27.580', R=1000.00', L=.6802

L=45.592', R=500.00', Δ=5.2245

L=25.891', R=500.00', Δ=2.966

END IMPROVEMENTS STA. 140+76.57

SAW CUT AND CONNECT TO EX. TRAIL

ASPHALT TRAIL

BENCHMARK "PK" NAIL, EL. 838.66

EX. PROPERTY LINE

EXISTING ℄ PROFILE

PROPOSED ℄ PROFILE

PVI STA: 138+00.00
PVI ELEV: 837.88
K: 35.62
L: 70.00'
H.P.: 137+73.90
EL.: 837.80

PVC: 137+65.00
ELEV: 837.79

PVT: 138+35.00
ELEV: 837.27

PVI STA: 139+00.00
PVI ELEV: 836.16
K: 25.97
L: 70.00'
L.P.: 139+09.55
EL.: 836.38

PVC: 138+65.00
ELEV: 836.76

PVT: 139+35.00
ELEV: 836.50

PVI STA: 140+00.00
PVI ELEV: 837.14
K: 47.08
L: 60.00'

PVC: 139+70.00
ELEV: 836.85

PVT: 140+30.00
ELEV: 837.82

STA. = 140+76.56
ELEV = 838.87

-1.72%

0.98%

2.25%

EXISTING C/L PROFILE

PROPOSED C/L PROFILE

136+50	137+00	137+50	138+00	138+50	139+00	139+50	140+00	140+50
837.3 **837.50**	837.3 **837.62**	837.5 **837.75**	837.6 **837.70**	836.9 **837.02**	835.7 **836.40**	835.6 **836.65**	836.2 **837.24**	837.6 **838.27**

USER NAME = azielinski	DESIGNED — AK	REVISED — ___	
	DRAWN — RT	REVISED — ___	
PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___	
PLOT DATE = 11/18/2019	DATE — July, 2019	REVISED — ___	

ENGINEERING RESOURCE ASSOCIATES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
PLAN AND PROFILE

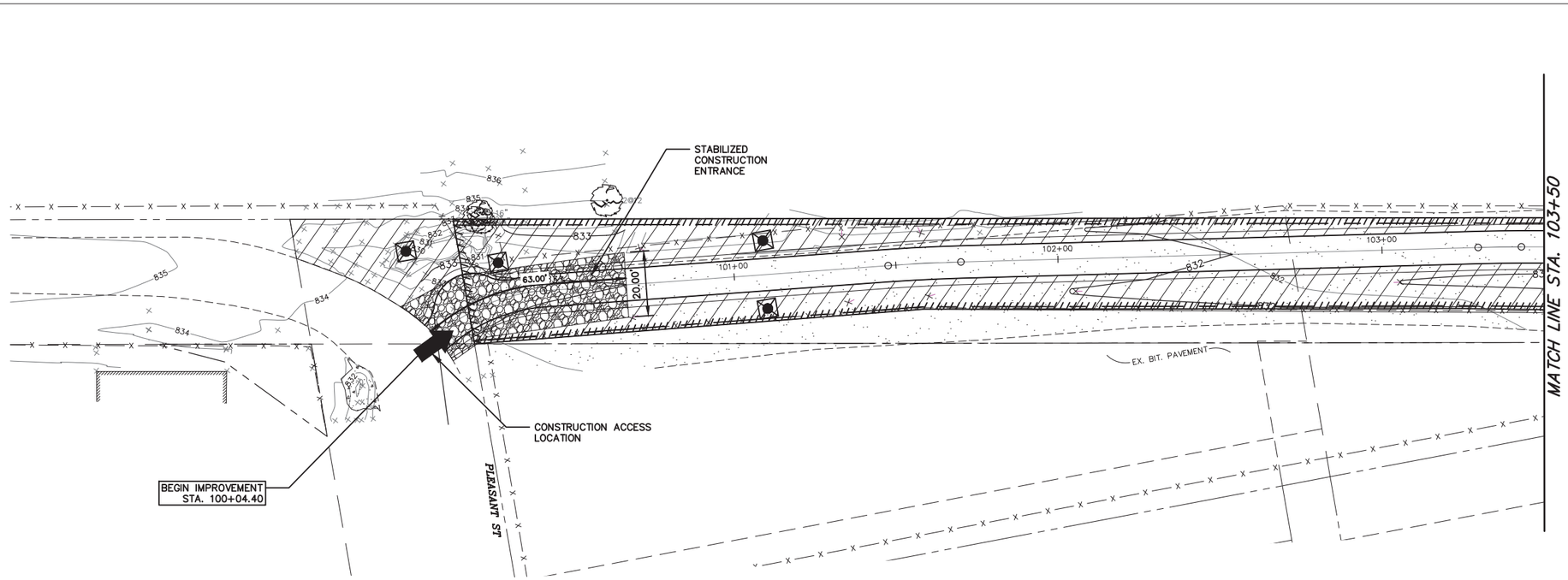
SCALE: 1"=20' | SHEET NO. 9 OF 9 SHEETS | STA. 136+50 TO STA. 140+76.57

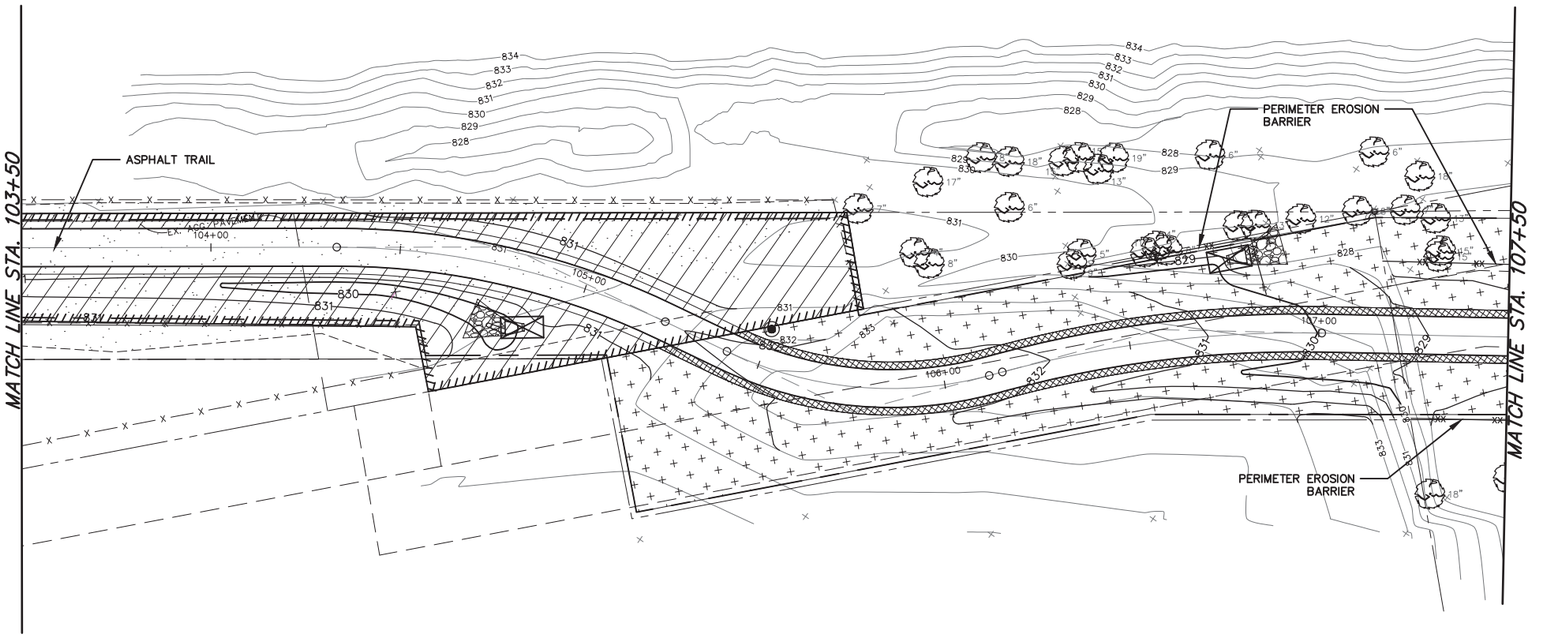
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	Dekalb	58	20
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, BY, DATE, NOTE BOOK, NO., STRUCTURE NO(S), ITEM(S), NOTATIONS CHKD

FILE NAME: \\erafs11\H_drive\SycamorePark District\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 GreatWesternTrailExtensionPlan&Profile.dwg





N

0 20' 40'

SCALE: 1"=20'

LEGEND

- IDOT CLASS 1B SEED MIX & EROSION CONTROL BLANKET
- IDOT CLASS 2 SEED MIX & EROSION CONTROL BLANKET
- IDOT CLASS 4A SEED MIX & EROSION CONTROL BLANKET
- IDOT CLASS 4B SEED MIX & EROSION CONTROL BLANKET
- STABILIZED CONSTRUCTION ENTRANCE
- PERIMETER EROSION BARRIER
- TEMPORARY FENCE
- CONSTRUCTION ACCESS LOCATION
- INLET PROTECTION

NOTE:
SEEDING LIMITS DENOTE MAXIMUM LIMITS OF SEEDING THAT WILL BE MEASURED AND PAID FOR. ADDITIONAL DISTURBANCE BEYOND THESE LIMITS SHALL BE SEEDED, BLANKETED AND RESTORED AT NO COST TO THE OWNER.

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, GRADES CHECKED, ALL DIMENSIONS CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, ALL DIMENSIONS CHECKED, STRUCTURE NO/ATHS CHKD, NOTE BOOK, NO., BY, DATE

FILE NAME: \\erafs1\H_drive\SycamoreParkDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 GreatWesternTrailExtensionLandscapePlan.dwg

ENGINEERING RESOURCE ASSOCIATES

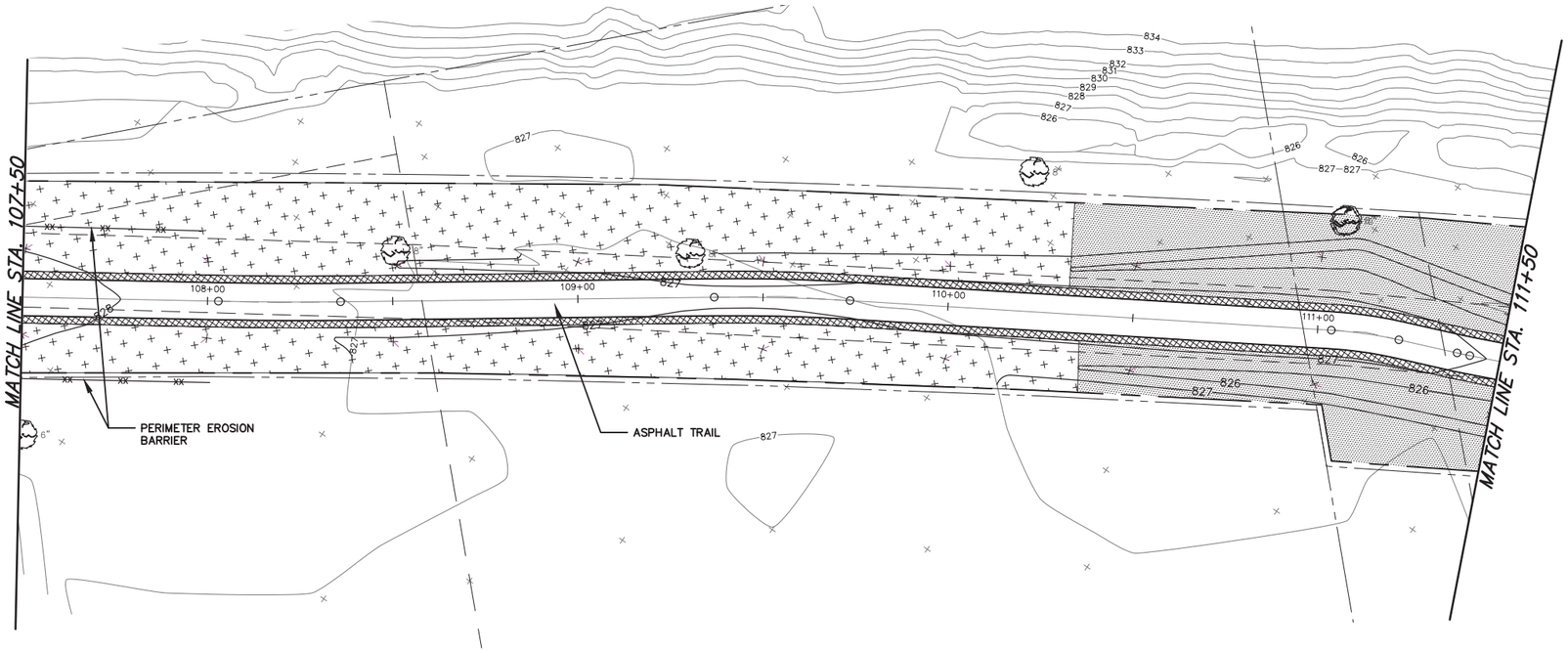
USER NAME = azielinski	DESIGNED — AK	REVISED — ___
FILE NAME=	DRAWN — RT	REVISED — ___
PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___
PLOT DATE = 11/18/2019	DATE — July, 2019	REVISED — ___

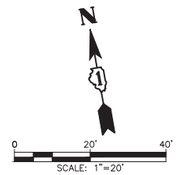
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
LANDSCAPE PLAN AND EROSION CONTROL PLAN

SCALE: 1"=20' | SHEET NO. 1 OF 4 SHEETS | STA. 100+00 TO STA. 107+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18–P4006–01–BT	Dekalb	58	21
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

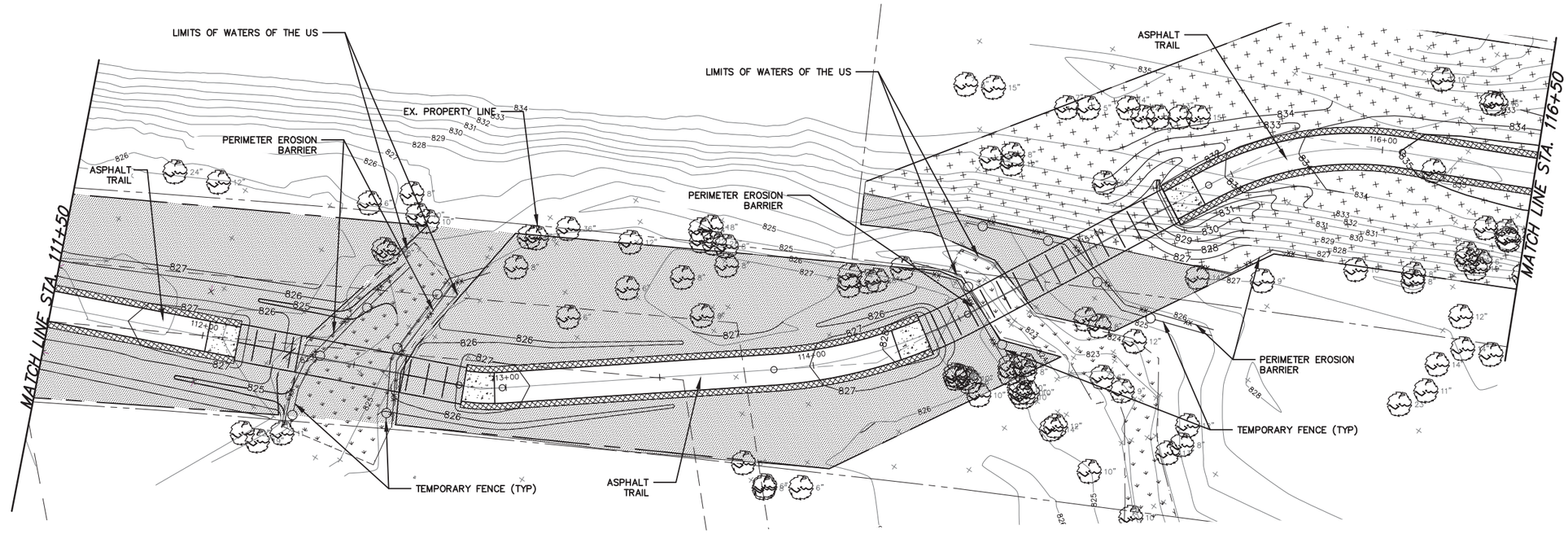


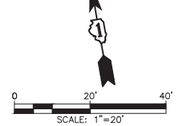


LEGEND

- IDOT CLASS 1B SEED MIX & EROSION CONTROL BLANKET
- IDOT CLASS 2 SEED MIX & EROSION CONTROL BLANKET
- IDOT CLASS 4A SEED MIX & EROSION CONTROL BLANKET
- IDOT CLASS 4B SEED MIX & EROSION CONTROL BLANKET
- STABILIZED CONSTRUCTION ENTRANCE
- PERIMETER EROSION BARRIER
- TEMPORARY FENCE
- CONSTRUCTION ACCESS LOCATION
- INLET PROTECTION

NOTE:
SEEDING LIMITS DENOTE MAXIMUM LIMITS OF SEEDING THAT WILL BE MEASURED AND PAID FOR. ADDITIONAL DISTURBANCE BEYOND THESE LIMITS SHALL BE SEEDED, BLANKETED AND RESTORED AT NO COST TO THE OWNER.





PLAN: DATE, BY, SURVEYED, PLOTTED, ALIGNMENT CHECKED, GRADES CHECKED, NOTE BOOK, NO.

PROFILE: DATE, BY, SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, NOTE BOOK, NO., STRUCTURE NO(S)/PINS CHKD

FILE NAME: \\eros1\1\H_drive\SycamoreParksDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 GreatWesternTrailExtensionLandscapePlan.dwg

ENGINEERING RESOURCE ASSOCIATES

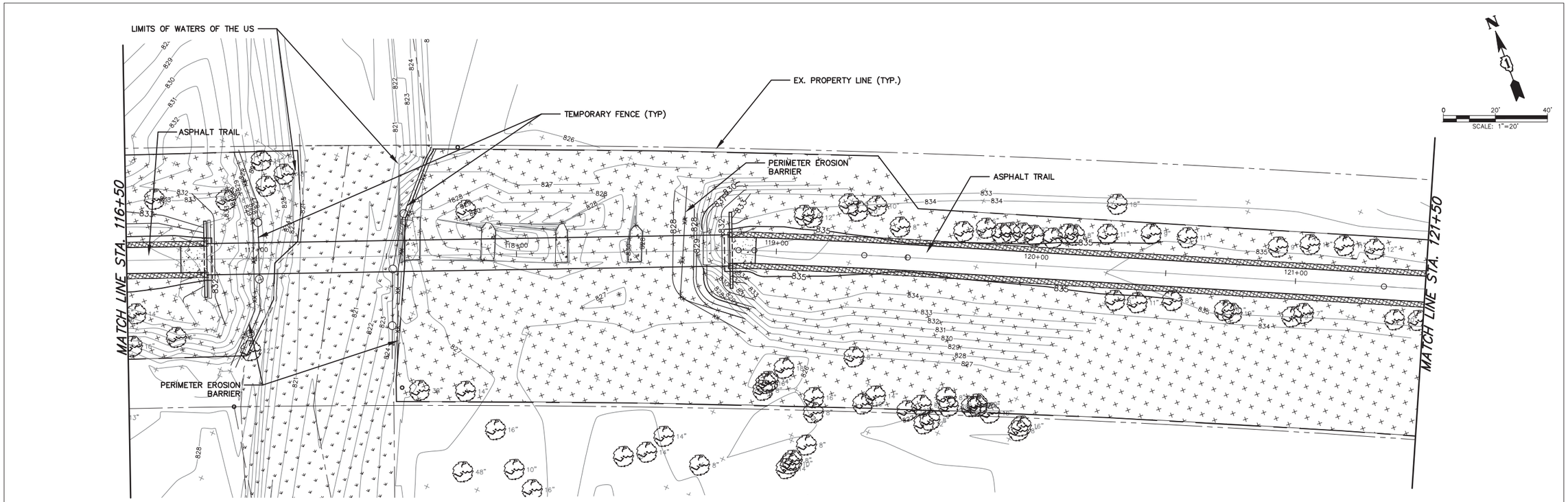
USER NAME = azielinski	DESIGNED — AK	REVISED — ___
	DRAWN — RT	REVISED — ___
PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___
PLOT DATE = 11/18/2019	DATE — July, 2019	REVISED — ___

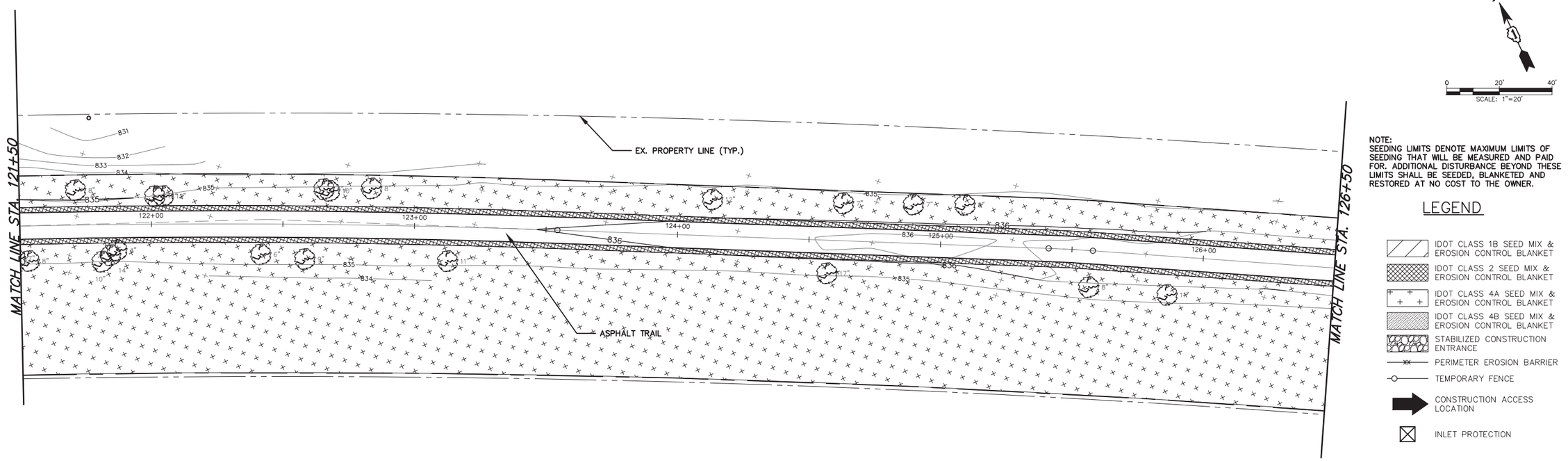
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
LANDSCAPE PLAN AND EROSION CONTROL PLAN

SCALE: 1"=20' | SHEET NO. 2 OF 4 SHEETS | STA. 107+50 TO STA. 116+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	Dekalb	58	22
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		





NOTE:
SEEDING LIMITS DENOTE MAXIMUM LIMITS OF SEEDING THAT WILL BE MEASURED AND PAID FOR. ADDITIONAL DISTURBANCE BEYOND THESE LIMITS SHALL BE SEEDED, BLANKETED AND RESTORED AT NO COST TO THE OWNER.

LEGEND

- IDOT CLASS 1B SEED MIX & EROSION CONTROL BLANKET
- IDOT CLASS 2 SEED MIX & EROSION CONTROL BLANKET
- IDOT CLASS 4A SEED MIX & EROSION CONTROL BLANKET
- IDOT CLASS 4B SEED MIX & EROSION CONTROL BLANKET
- STABILIZED CONSTRUCTION ENTRANCE
- PERIMETER EROSION BARRIER
- TEMPORARY FENCE
- CONSTRUCTION ACCESS LOCATION
- INLET PROTECTION

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, GRADES CHECKED, NOTE BOOK, NO.; BY; DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, NOTE BOOK, NO., STRUCTURE NO.; ALIGNMENT CHKD; PATHS CHKD; BY; DATE

FILE NAME: \\erafs1\H_drive\SycamoreParkDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 GreatWesternTrailExtensionLandscapePlan.dwg

ENGINEERING RESOURCE ASSOCIATES

USER NAME = azielinski	DESIGNED — _	REVISED — ___
FILE NAME=	DRAWN — RT	REVISED — ___
PLOT SCALE = $SCALE$	CHECKED — AK	REVISED — ___
PLOT DATE = 11/18/2019	DATE — June, 2019	REVISED — ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

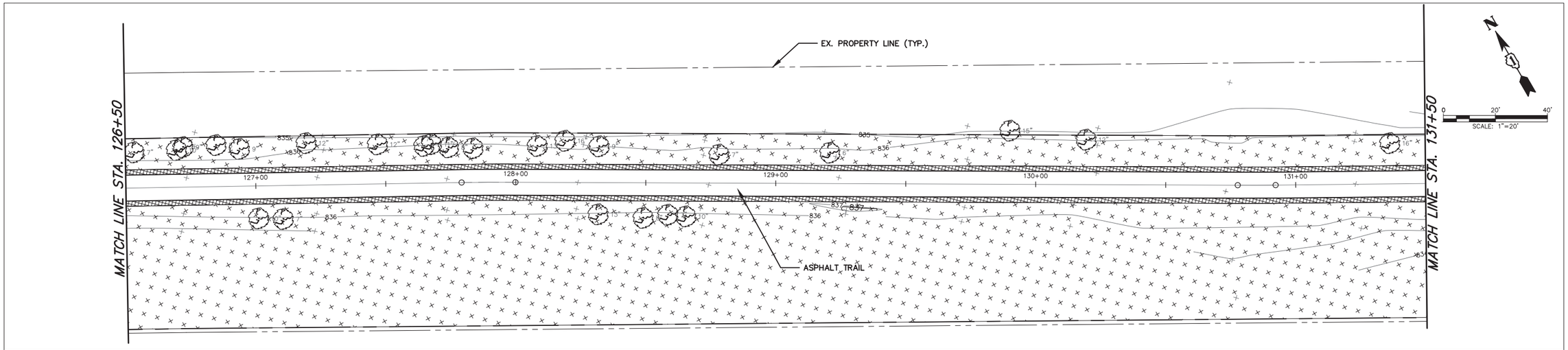
GREAT WESTERN TRAIL EXTENSION
LANDSCAPE PLAN AND EROSION CONTROL PLAN

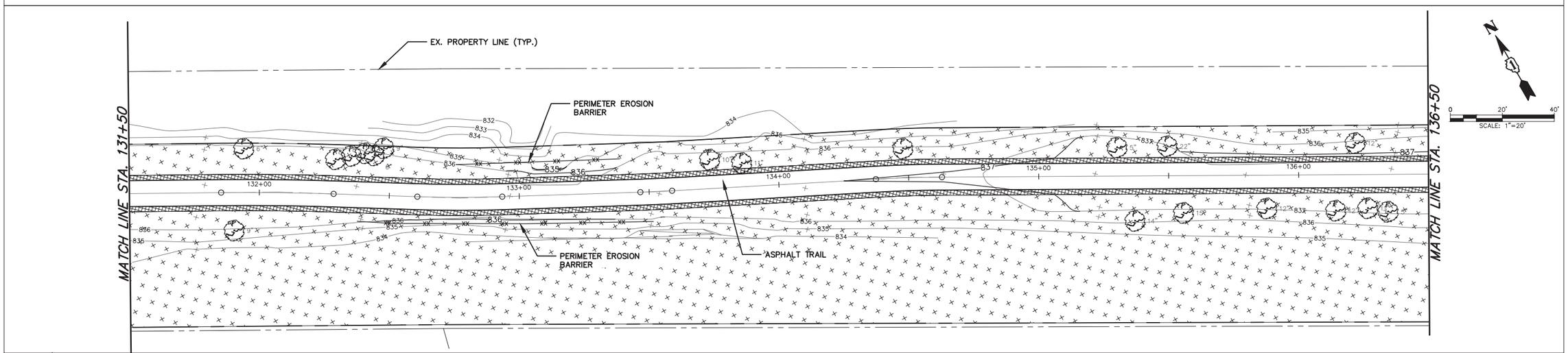
SCALE: 1"=20' | SHEET NO. 3 OF 4 SHEETS | STA. 116+50 TO STA. 126+50

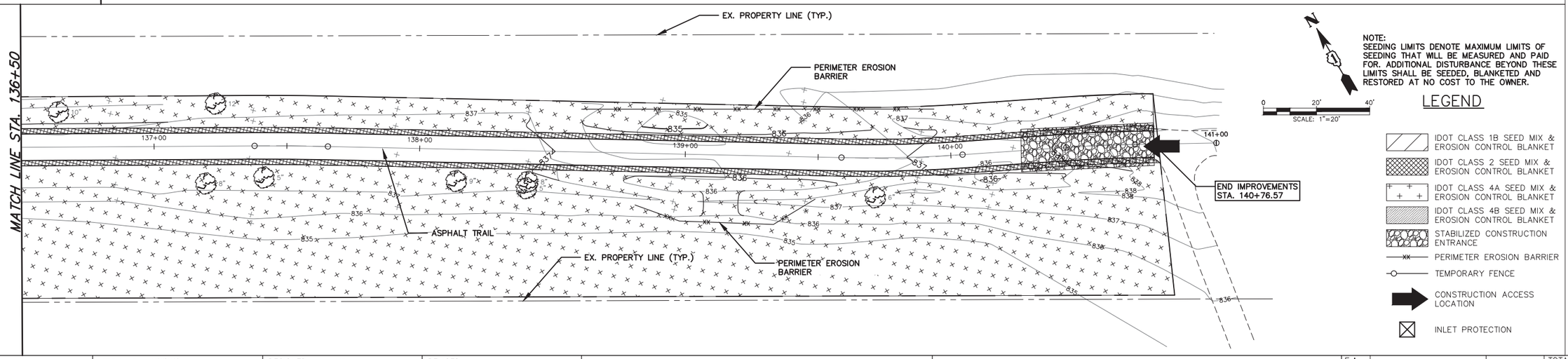
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	Dekalb	58	23
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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

PROFILE
SURVEYED BY
PLOTTED DATE
GRADES CHECKED
NOTE BOOK
NO.
STRUCTURE NO(S)/PINS CHKD







NOTE:
SEEDING LIMITS DENOTE MAXIMUM LIMITS OF SEEDING THAT WILL BE MEASURED AND PAID FOR. ADDITIONAL DISTURBANCE BEYOND THESE LIMITS SHALL BE SEEDED, BLANKETED AND RESTORED AT NO COST TO THE OWNER.

LEGEND

- IDOT CLASS 1B SEED MIX & EROSION CONTROL BLANKET
- IDOT CLASS 2 SEED MIX & EROSION CONTROL BLANKET
- IDOT CLASS 4A SEED MIX & EROSION CONTROL BLANKET
- IDOT CLASS 4B SEED MIX & EROSION CONTROL BLANKET
- STABILIZED CONSTRUCTION ENTRANCE
- PERIMETER EROSION BARRIER
- TEMPORARY FENCE
- CONSTRUCTION ACCESS LOCATION
- INLET PROTECTION

FILE NAME: \\erafs1\H_drive\SycamoreParkDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 GreatWesternTrailExtensionLandscapePlan.dwg

ENGINEERING RESOURCE ASSOCIATES

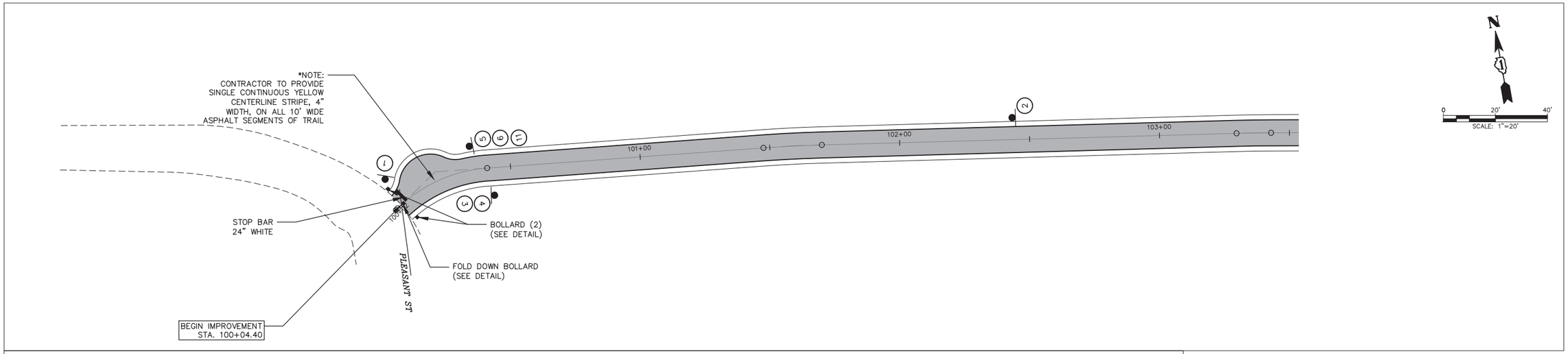
USER NAME = azielinski	DESIGNED — AK	REVISED — ___
	DRAWN — RT	REVISED — ___
PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___
PLOT DATE = 11/18/2019	DATE — July, 2019	REVISED — ___

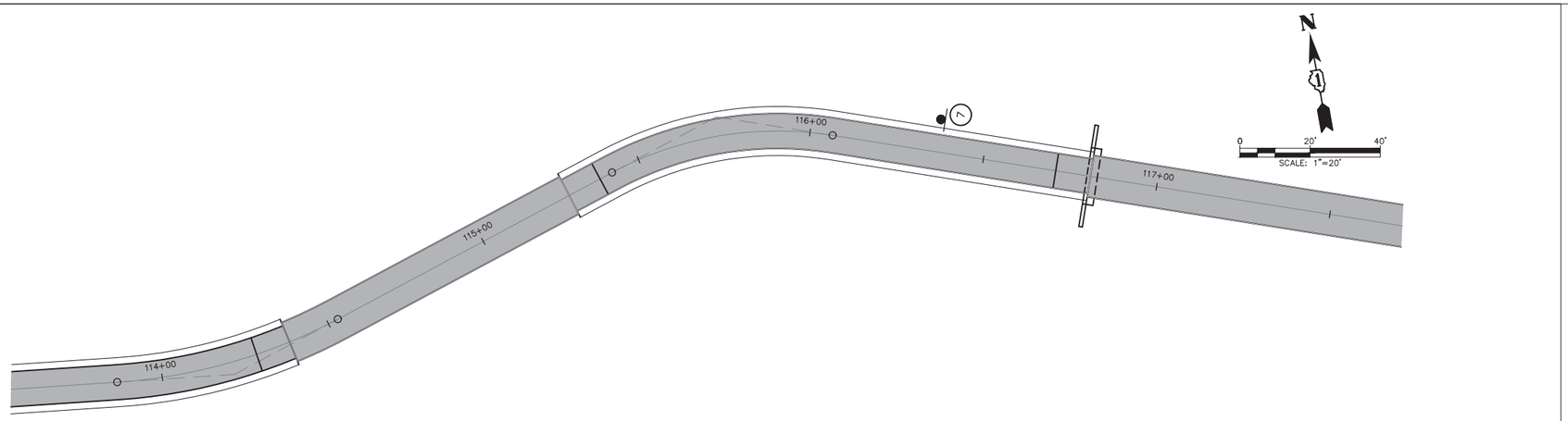
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

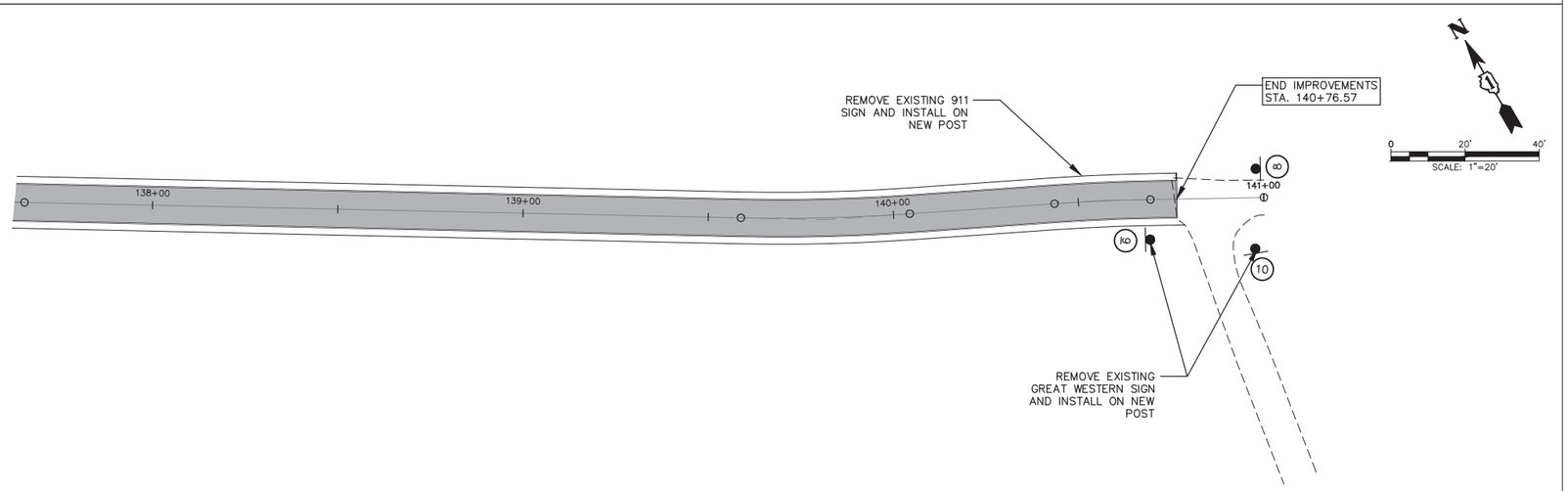
GREAT WESTERN TRAIL EXTENSION
LANDSCAPE PLAN AND EROSION CONTROL PLAN

SCALE: 1"=20' | SHEET NO. 4 OF 4 SHEETS | STA. 126+50 TO STA. 140+76.57

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	Dekalb	58	24
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		







SIGN LEGEND

1. STOP — R1–1 (18"X18")
2. W3–1 (18"X18")
3. Sycamore Forest Preserve / Virgil — D1–2b (30"X12")
4. Great Western Trail / Sycamore Park District (Established 1920) — (24"X12" WHITE)
5. TRAIL ENDS — (12"X12" WHITE)
6. Pedestrians & Cyclists Use Caution When Joining Traffic — (12"X18" WHITE)
7. W7–5 18"X18"
8. Downtown Sycamore / Sycamore Forest Preserve — D1–2b (30"X12")
9. Virgil / Sycamore Forest Preserve — D1–2b (30"X12")
10. Downtown Sycamore / Virgil — D1–2b (30"X12")
11. Downtown Sycamore — D1–2b (30"X6")

NOTE:
ALL INFORMATIONAL SIGNS SHALL HAVE MINIMUM
2" TALL FONT FOR THE CAPITAL LETTERS

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, GRADES CHECKED, ALL NOTES CHECKED, STRUCTURE NOTATNS CHKD; NOTE BOOK ____ NO. ____; BY ____ DATE ____

PROFILE: SURVEYED, PLOTTED, ALIGNMENT CHECKED, GRADES CHECKED, ALL NOTES CHECKED, CADD FILE NAME ____; NOTE BOOK ____ NO. ____; BY ____ DATE ____

FILE NAME: \\erafs1\H_drive\SycamoreParkDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 GreatWesternTrailExtension Striping&Signage.dwg

ENGINEERING RESOURCE ASSOCIATES

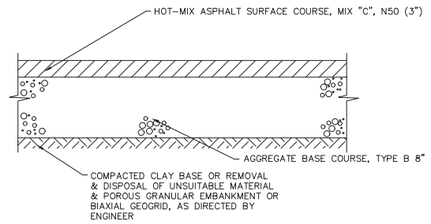
USER NAME = azielinski	DESIGNED — _	REVISED — ___	
FILE NAME=	DRAWN — RT	REVISED — ___	
PLOT SCALE = $SCALE$	CHECKED — AK	REVISED — ___	
PLOT DATE = 11/18/2019	DATE — July, 2019	REVISED — ___	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

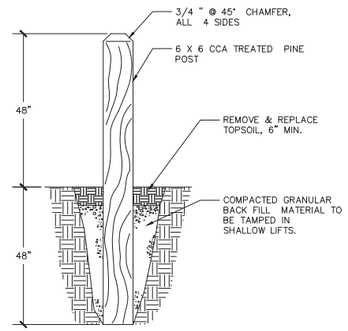
GREAT WESTERN TRAIL EXTENSION
STRIPING, SIGNAGE AND BOLLARDS PLAN

SCALE: 1"=20' | SHEET NO. 1 OF 1 SHEETS | STA. 100+00 TO STA. 140+76.57

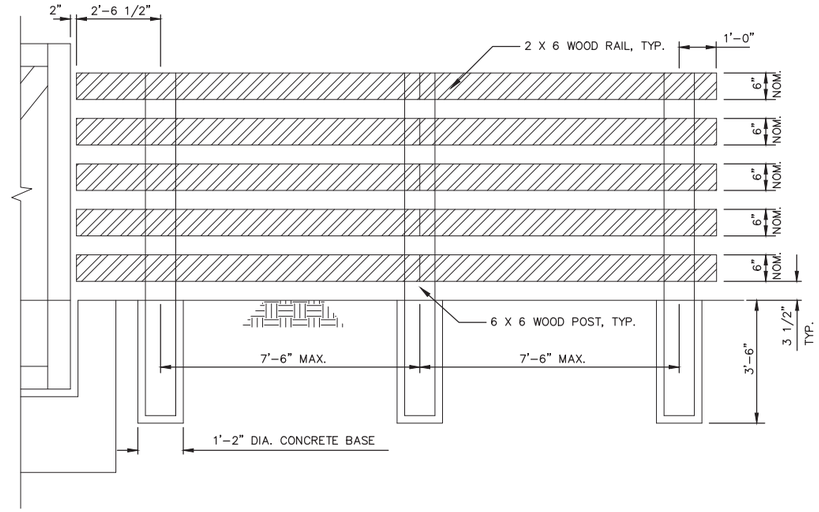
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18–P4006–01–BT	Dekalb	58	25
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



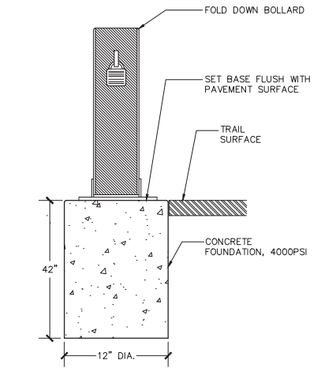
BITUMINOUS PATH DETAIL
NOT TO SCALE



WOOD BOLLARD
NOT TO SCALE

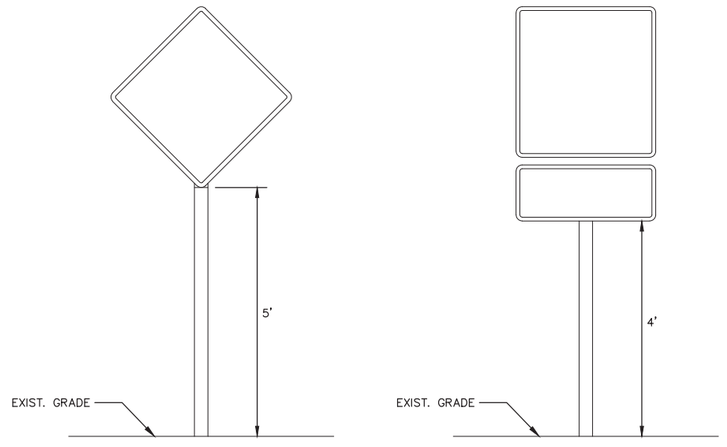


WOOD POST AND RAIL FENCE DETAIL
NOT TO SCALE



NOTES:
1. FOLD DOWN BOLLARD SHALL BE 36" DOUBLE POST STEEL MODEL WITH DOUBLE LOCKS AND OPTIONAL PIN.
2. INSTALL SO THAT BOLLARD LIES FLAT ON PAVEMENT WHEN UNLOCKED. OPEN BOLLARD TO BE FLUSH WITH PAVEMENT AND PARALLEL TO EDGES OF TRAIL.

FOLD DOWN BOLLARD
NOT TO SCALE



SIGN AND POST HEIGHT DETAILS
NOT TO SCALE

ENGINEERING RESOURCE ASSOCIATES

USER NAME = azielinski	DESIGNED — AK	REVISED — ___
	DRAWN — RT	REVISED — ___
PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___
PLOT DATE = 11/18/2019	DATE — July, 2019	REVISED — ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

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

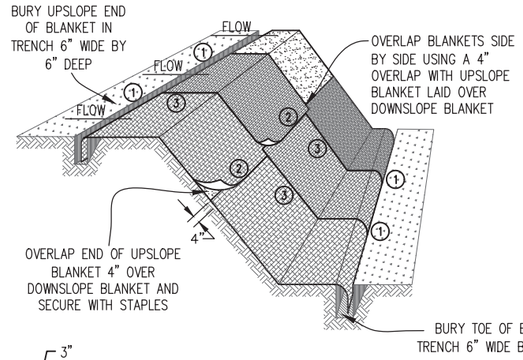
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	DEKALB	58	26
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

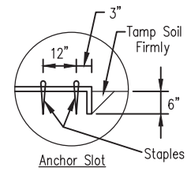
SEDIMENT EROSION CONTROL AND POLLUTION PREVENTION NOTES:

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING, PARKING OF VEHICLES OF CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS OR OTHER CONSTRUCTION RELATED ACTIVITIES.
2. CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT OWNER APPROVED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
3. TEMPORARY SEDIMENT CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PERMANENT VEGETATION IS GROWING AND THRIVING.
4. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO START OF CONSTRUCTION.
5. ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EACH ½" RAIN EVENT.
6. THE EROSION CONTROL BLANKET AND/OR STRAW MULCH WITH NETTING (DEPENDING ON SLOPE, SLOPE LENGTH AND FLOW RATES) SHALL BE INSTALLED ON ALL SLOPES AND IN CRITICAL AREAS (I.E. POND PERIMETER, BERMS, ETC.) IMMEDIATELY UPON FINAL GRADING.
7. IN AREAS WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS OF COMPLETION, AND IN AREAS WHERE WORK HAS TEMPORARILY CEASED FOR 14 DAYS OR MORE, TEMPORARY STABILIZATION SHALL OCCUR BY THE 7TH DAY AFTER WORK HAS CEASED.
8. TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 50 LBS/ACRES. TEMPORARY SEEDING SHALL BE PLACED AT THE TIME AND IN THE LOCATION AS DETERMINED BY THE ENGINEER.
9. WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL.
10. ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY, AND CLEANED WHEN NECESSARY AND AS DIRECTED BY ENGINEER.
11. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE MOST RECENT ILLINOIS URBAN MANUAL.
12. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
13. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER, CITY OF SYCAMORE, OR SOIL & WATER CONSERVATION DISTRICT OF DEKALB COUNTY.
14. NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN AND NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.
15. WHERE THERE IS LOW, INTERMITTENT AMOUNTS OF DEWATERING, PUMPS WITH FILTRATION BAGS SHALL BE USED. FILTRATION BAGS SHALL BE ATTACHED TO PUMP DISCHARGES AND SURROUNDED WITH A SECONDARY CONTAINMENT OR ON A STABILIZED AREA. FILTER BAGS SHALL NOT BE PLACED, WHOLE OR PARTIALLY, WITHIN AQUATIC AREAS (WETLANDS, STREAMS, ETC.) THE MATERIAL FOR THE FILTRATION BAG SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE OF THE ILLINOIS URBAN MANUAL, TABLE 2, CLASS I WITH A MINIMUM TENSILE STRENGTH OF 200 LBS. THE FILTRATION BAG SHALL BE SIZED PER MANUFACTURER RECOMMENDATIONS AND BASED ON THE SIZE OF THE PUMP.
16. IF THE CONTRACTOR ENCOUNTERS GROUNDWATER EITHER DURING CONSTRUCTION OR PRIOR TO THE START OF CONSTRUCTION, A DEWATERING PLAN SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW.
17. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
18. CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE BY THE OWNER. MAINTENANCE UP TO THIS DATE WILL BE BY THE CONTRACTOR.
19. NO STOCKPILING IS PERMITTED WITHIN THE FLOODPLAIN. STOCKPILES THAT ARE TO REMAIN IN PLACE MORE THAN THREE DAYS SHALL BE PROVIDED WITH SOIL EROSION AND SEDIMENT CONTROL MEASURES.
20. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY SEDIMENT CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS, AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE COST OF THE EROSION CONTROL SYSTEMS AND SHALL NOT BE PAID FOR SEPARATELY.
21. ALL DROP INLETS ON AND ADJACENT TO THE SITE MUST HAVE A SEDIMENT TRAPPING OR CONTAINMENT DEVICE INSTALLED DURING CONSTRUCTION ACTIVITIES. FILTER FABRIC ON ITS OWN IS NOT AN APPROVED METHOD. A MANUFACTURER'S SPEC SHOULD BE USED FOR PREFABRICATED DROP INLET PROTECTION AND SHOULD BE AS THE ILLINOIS URBAN MANUAL STANDARD 861 FOR INLET PROTECTION.
22. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED. TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.
23. ALL EROSION AND SEDIMENT CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION AND SEDIMENT CONTROL PLAN. PRIOR TO THE APPROVAL AND USE IN THE PROJECT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.
24. THE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE TEMPORARY SEEDING, PERMANENT SEEDING, PROTECTION OF TREES, PRESERVATION OF NATURAL VEGETATION, AND OTHER APPROPRIATE MEASURES AS DIRECTED BY THE ENGINEER. AREAS OF EXISTING VEGETATION, WOOD AND GRASSLANDS, OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED BY THE ENGINEER FOR PRESERVING AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.
25. BARE AND SPARSELY VEGETATED GROUND IN HIGH ERODIBLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN (7) DAYS.
26. IMMEDIATELY AFTER TREE REMOVAL IS COMPLETED, AREAS WHICH ARE HIGHLY ERODIBLE AS DETERMINED BY THE ENGINEER, SHALL BE TEMPORARILY SEEDED WHEN NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN (7) DAYS.
27. COMPLETED SLOPES SHALL BE SEEDED AND BLANKETED AS THE EXCAVATION PROCEEDS TO THE EXTENT CONSIDERED DESIRABLE AND PRACTICAL. PERMANENT SEEDING SHALL BE USED WHENEVER POSSIBLE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
28. THE SITE SHOULD BE PHASED IN A WAY THAT REDUCES THE AMOUNT OF STRIPPED, UNSTABILIZED AREAS WITHIN THE SITE AT ANY ONE TIME. MASS GRADING THE ENTIRE SITE SHOULD BE AVOIDED AS TO PREVENT EROSION ON SITE AND SEDIMENTATION ISSUES DOWNSTREAM.
29. BARRIER PROTECTION SHALL BE PLACED AT THE LIMITS OF SOIL DISTURBANCE ADJACENT TO ALL UNDISTURBED WETLAND AND RIPARIAN AREAS AS NOTED ON THE PLANS, AND SHALL BE A ROW OF SILT FENCE (UPSTREAM SIDE), A ROW OF TEMPORARY FENCE (ORANGE CONSTRUCTION FENCE, DOWNSTREAM SIDE), & A MINIMUM OF OF TWO SIGNS AT EACH LOCATION (SIGNS SHALL NOT BE SPACED MORE THAN 300' APART. SIGNS SHALL MEET THE REQUIREMENTS OF ARTICLE 720.02 OF THE STANDARD SPECIFICATIONS AND SHALL BE 9" X 12" (225 MM X 300 MM) AND SHALL READ "FEDERALLY PROTECTED WETLANDS: KEEP OUT." SIGN SUPPORTS SHALL MEET THE REQUIREMENTS OF SECTION 1093 OF THE STANDARD SPECIFICATIONS. SIGNS SHALL BE INCLUDED IN THE COST OF TEMPORARY FENCE.
30. GRADING IN 100-YR FLOODPLAIN AREAS SHALL BE DONE IN SUCH A MANNER THAT THE EXISTING FLOODPLAIN STORAGE IS MAINTAINED AT ALL TIMES.

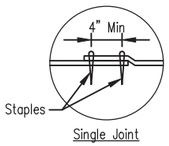
DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTION OF THE CONSTRUCTION SITE:

1. PERFORM CLEARING & GRUBBING AND TREE REMOVALS ALONG ENTIRE CORRIDOR. NOTE: DUE TO THE POTENTIAL PRESENCE OF THE INDIANA BAT AND THE NORTHERN LONG-EARED BAT WITHIN THE PROJECT AREA, PERMITTING AGENCIES REQUIRE THAT TREES LARGER THAN THREE (3) INCHES DBH SHALL NOT BE CLEARED FROM APRIL 1 THROUGH SEPTEMBER 30 TO AVOID POTENTIAL IMPACTS. THEREFORE, CONTRACTOR SHALL BASE PROJECT SCHEDULE ON THIS CLEARING RESTRICTION.
2. INSTALL ALL TEMPORARY FENCE.
3. INSTALL PERIMETER EROSION BARRIER AND EROSION CONTROL MEASURES PRIOR TO EARTHWORK ACTIVITIES.
4. EXCAVATE SITE FOR TRAIL INSTALLATION, WITH ALL PROPOSED TRAIL AREAS GRADED TO ROUGHLY 1-FOOT BELOW FINAL ELEVATIONS ON PLANS, PERFORM PROOF ROLL, AND REMOVE AND REPLACE MATERIAL AS NECESSARY.
5. INSTALL BRIDGE ABUTMENTS, CONCRETE APPROACHES, AND BRIDGE SUPERSTRUCTURES.
6. CONSTRUCT UTILITIES. AFTER COMPLETION OF STORM SEWER INSTALLATION, TEMPORARY & PERMANENT SEDIMENT CONTROL FILTER BARRIER AND SEDIMENT CONTROL FLOW-THROUGH FILTERS SHALL BE IMMEDIATELY PLACE AT EACH OPEN-GRATE STRUCTURE. PERMANENT EROSION CONTROL MEASURES SHALL ALSO BE PLACED.
7. CONSTRUCT ASPHALT TRAILS.
8. TEMPORARILY STABILIZE SITE IMMEDIATELY FOLLOWING MASS GRADING COMPLETION THROUGHOUT PROJECT.
9. PERFORM FINE GRADING.
10. SEED AND STABILIZE SITE WITH BIODEGRADABLE EROSION CONTROL MAT AS FINE GRADING IS COMPLETED THROUGHOUT THE SITE.
11. INSTALL VARIOUS ADDITIONAL IMPROVEMENTS, INCLUDING FENCING, BOLLARDS, AND SIGNAGE.
12. REMOVE TEMPORARY EROSION CONTROL MEASURES FOLLOWING FINAL STABILIZATION & APPROVAL BY ENGINEER & OWNER.





DETAIL 1



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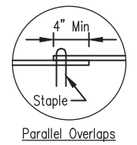

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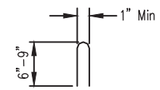
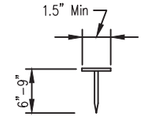


STAPLE DETAIL



PUSH PIN DETAIL

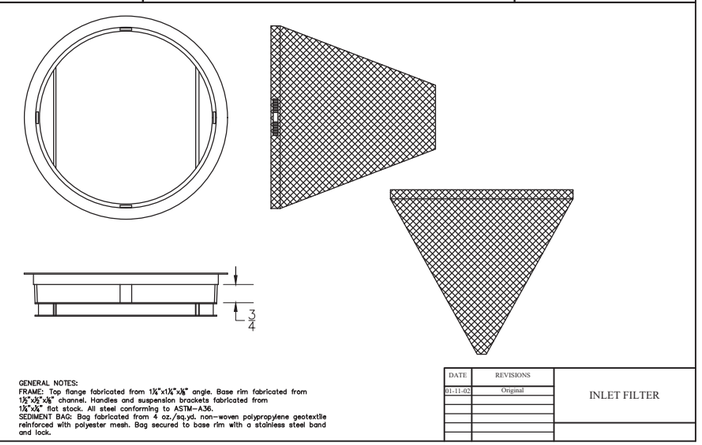
NOTES:

1. Staples shall be placed in a diamond pattern at 2 per s.y. for stiched blankets. Non-stiched shall use 4 staples per s.y. of material. This equates to 200 staples with stiched blanket and 400 stapels with non-stiched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be stapled at approximately 12" intervals.

Sheet 1 of 1 | Drawing No. DLM-530 | File No.

EROSION CONTROL BLANKET INSTALLATION DETAILS

Designed | Drawn B. JOHNSON 11/08 | Checked | Approved | Date



GENERAL NOTES:
FRAME: Top flange fabricated from 1⅛"x1⅛"x⅛" angle. Base rim fabricated from 1⅜"x⅜"x⅛" channel. Handles and suspension brackets fabricated from 1⅛"x⅛" flat stock. All steel conforming to ASTM-A36.
SEDIMENT BAG: Bag fabricated from 4 oz./sq.yd. non-woven polypropylene geotextile reinforced with polyester mesh. Bag secured to base rim with a stainless steel band and lock.

DATE	REVISIONS
01-11-02	Original

INLET FILTER

H:\SycamoreParkDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 General Notes & Details.dwg Updated by: akustusch 3/9/2020

ENGINEERING RESOURCE ASSOCIATES

USER NAME = akustusch	DESIGNED - AK	REVISED -	
	DRAWN - RT	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - JM	REVISED -	
PLOT DATE = 3/9/2020	DATE - July, 2019	REVISED -	

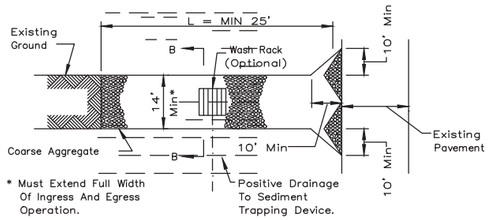
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL NOTES & DETAILS

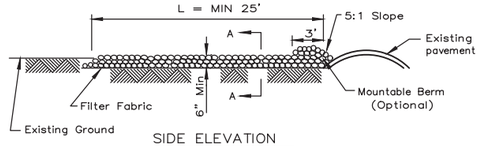
SCALE: N.T.S. | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	18-P4006-01-BT	DEKALB	58	27
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. -	ILLINOIS	FED. AID PROJECT		

STABILIZED CONSTRUCTION ENTRANCE PLAN



PLAN VIEW

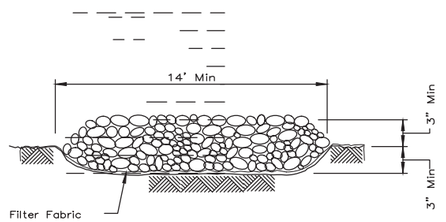


SIDE ELEVATION

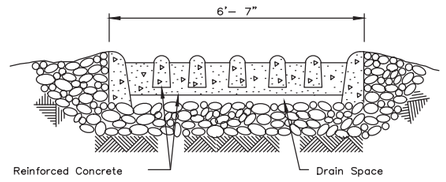
NOTES:
1 Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class , I orII dand shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE			STANDARD DWG. NO.
Project		NRCS Natural Resources Conservation Service	IL-630
Designed	Date		SHEET 1 OF 2
Checked	Date		DATE 8-18-94
Approved	Date		

STABILIZED CONSTRUCTION ENTRANCE PLAN



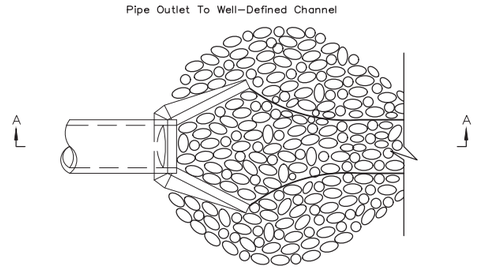
SECTION A–A



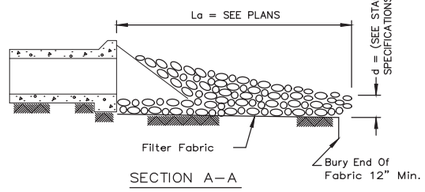
SECTION B–B

REFERENCE			STANDARD DWG. NO.
Project		NRCS Natural Resources Conservation Service	IL-630
Designed	Date		SHEET 2 OF 2
Checked	Date		DATE 8-18-94
Approved	Date		

PIPE OUTLET TO CHANNEL



PLAN

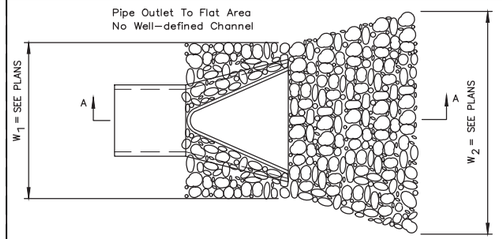


SECTION A–A

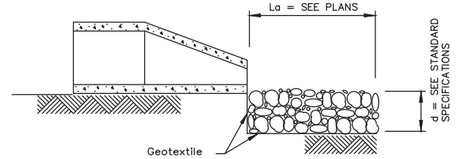
NOTES:
1. The filter fabric shall meet the requirements in material specification 592 GEOTEXTILE Table 1 or 2, Class I , II or III .
2. The rock riprap shall meet the IDOT requirements for the gradation noted on the plans.

REFERENCE			STANDARD DWG. NO.
Project		NRCS	IL-611
Designed	Date		SHEET 1 OF 1
Checked	Date		DATE 8-18-94
Approved	Date		

PIPE OUTLET TO FLAT AREA



PLAN

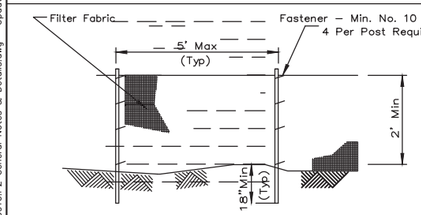


SECTION A–A

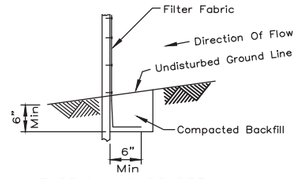
NOTES:
1. The filter fabric shall meet the requirements in material specifications 592 GEOTEXTILE Table 1 or 2, class I, II or III.
2. The rock riprap shall shall meet the IDOT requirements for the gradation noted on the plans.

REFERENCE			STANDARD DWG. NO.
Project		NRCS Natural Resources Conservation Service	IL-610
Designed	Date		SHEET 1 OF 1
Checked	Date		DATE 9-15-93
Approved	Date		

SILT FENCE PLAN



ELEVATION

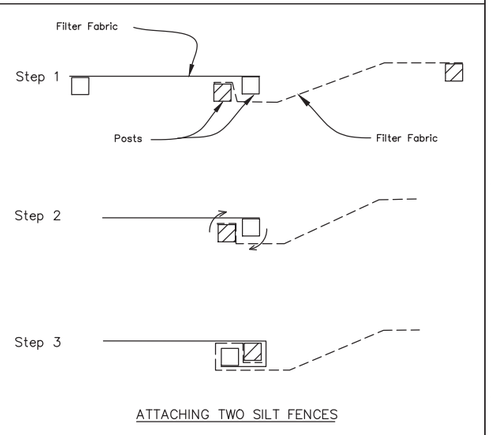


FABRIC ANCHOR DETAIL

NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class with equivalent opening size of at least 30 for nonwoven and 40 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross–sectional area of 3.0 sq. in.

REFERENCE			STANDARD DWG. NO.
Project			IUM-620
Designed	Date		
Checked	Date		DATE 3-16-12
Approved	Date		

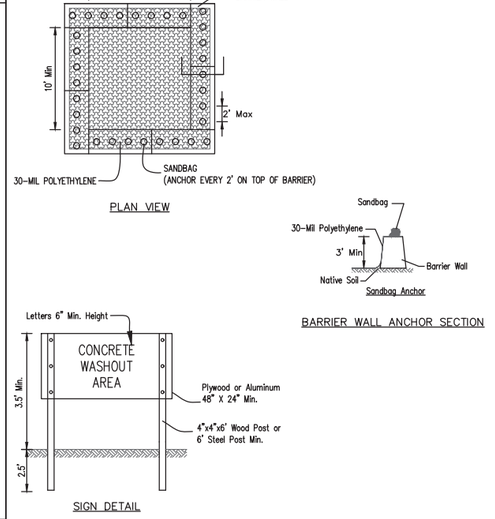
SILT FENCE – SPLICING TWO FENCES



ATTACHING TWO SILT FENCES

1. Place the end post of the second fence inside the end post of the first fence.
2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
3. Cut the fabric near the bottom of the stakes to accommodate the 6" flap.
4. Drive both posts a minimum of 18 inches into the ground and bury the flap.
5. Compact backfill (particularly at splices) completely to prevent stormwater piping.

REFERENCE			STANDARD DWG. NO.
Project			IUM-620B(W)
Designed	Date		SHEET 1 OF 1
Checked	Date		DATE 3-16-2012
Approved	Date		



PLAN VIEW

Sandbag Anchor

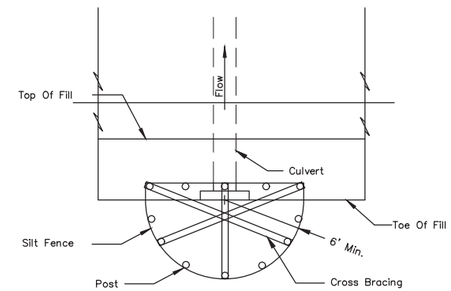
BARRIER WALL ANCHOR SECTION

SIGN DETAIL

NOTES:
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two–thirds full.
3. THE COST OF TEMPORARY CONCRETE WASHOUT SHALL BE INCLUDED IN THE COST OF ANY CONCRETE WORK IN THESE DOCUMENTS.

TEMPORARY CONCRETE WASHOUT FACILITY – BARRIER WALL

INLET & PIPE PROTECTION – SILT FENCE



PLAN VIEW

NOTES:
1. The silt fence shall meet the requirements as shown on standard detail SILT FENCE except the maximum post spacing shall be 3 feet and the tops of posts shall be cross braced.
2. Sediment shall be removed when the sediment has accumulated to one–half the height of the silt fence.
3. The maximum drainage area to the culvert being protected is 1 acre.

REFERENCE			STANDARD DWG. NO.
Project		NRCS Natural Resources Conservation Service	IL-508SF
Designed	Date		SHEET 1 OF 1
Checked	Date		DATE 1-29-99
Approved	Date		

ENGINEERING RESOURCE ASSOCIATES

USER NAME = azielinski	DESIGNED – AK	REVISED – ___	
	DRAWN – RT	REVISED – ___	
PLOT SCALE = $SCALE$	CHECKED – JM	REVISED – ___	
PLOT DATE = 11/18/2019	DATE – July, 2019	REVISED – ___	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL NOTES & DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18–P4006–01–BT	DEKALB	58	28
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

Updated by: azielinski 11/18/2019
\\erfs1\YH_drive\Sycamore\ParkDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\160910.P2 General Notes & Details.dwg

Benchmark: Set Cut Square in Concrete Foundation
Northing 1,939,474.525, Easting 892,138.912, Elev. 831.173

Existing Structure: None.

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges, 2nd Edition

SEISMIC DATA

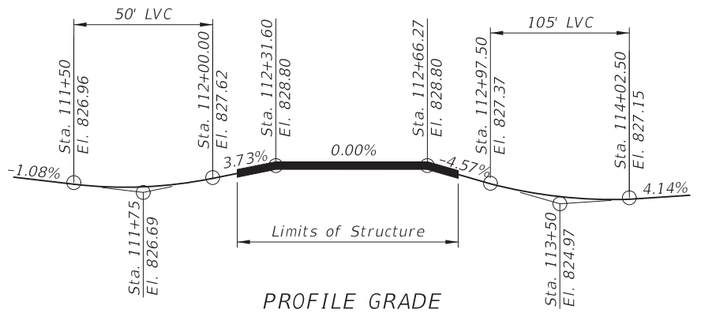
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.102g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.14g
Soil Site Class = D

DESIGN STRESSES

FIELD UNITS
F'c = 3500 psi (approach Slab)
Fy = 60 ksi (Reinforcement)
fb = as required (see specifications)

DESIGN LOADING

Pedestrian Live Load (PL) 90 psf
H10 Truck Loading



PROFILE GRADE

(Taken along ℄ Path)

℄ PIER STATIONS & ELEVATIONS

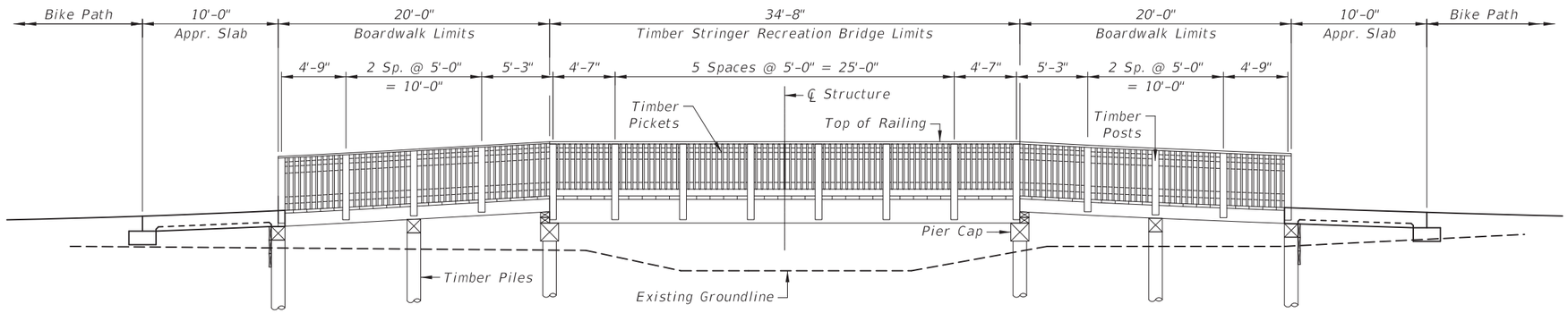
(Taken at ℄ Proposed Trail)

Location	Station	Elevation
℄ W. Appr.	112+01.60	827.68
℄ W. Abut.	112+11.60	828.05
℄ Pier 1	112+21.60	828.43
℄ Pier 2	112+31.60	828.80
℄ Pier 3	112+66.27	828.80
℄ Pier 4	112+76.27	828.34
℄ E. Abut.	112+86.27	827.89
℄ E. Appr.	112+96.27	827.44

CURVE 1 DATA

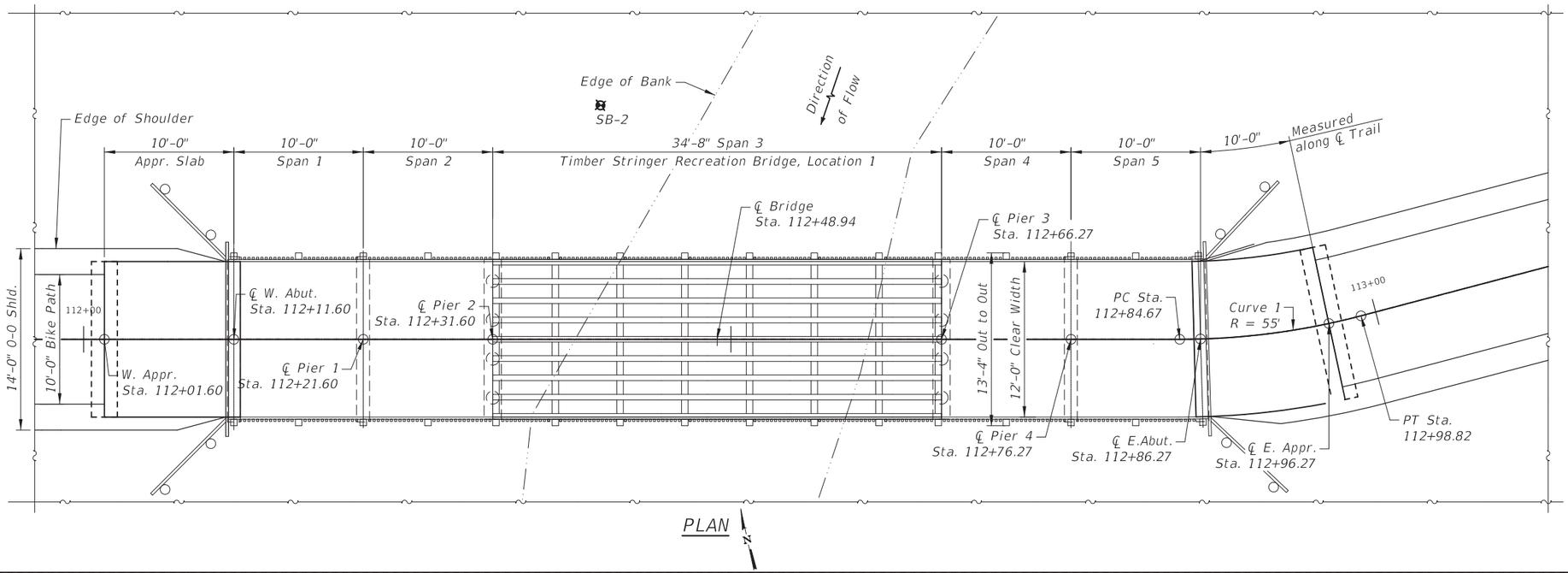
P.I. Sta. = 112+91.79
Δ = 14° 44' 47.04"
D = 14° 44' 46.92"
R = 55.0'
T = 7.12'
L = 14.155'
E = 0.459'
P.C. Sta. = 112+84.67
P.T. Sta. = 112+98.82

INDEX OF SHEETS



ELEVATION

(Dimensions are measured along ℄ of Trail)



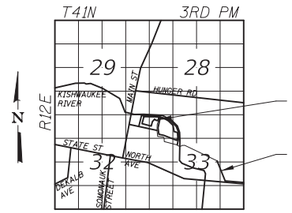
PLAN

ENGINEERING RESOURCE ASSOCIATES, INC.
MELISSA F. LANGE, S.E.

STATE OF ILLINOIS · MELISSA LANGE · 081-006488 · LICENSED STRUCTURAL ENGINEER · CHICAGO

MELISSA F. LANGE, S.E.
* 081-006488
EXP 11-2020
DATE 3-17-2020

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



LOCATION SKETCH

TIMBER BRIDGE A
GENERAL PLAN & ELEVATION
GREAT WESTERN TRAIL
DEKALB COUNTY
STA 112+48.94

MODEL: Default
FILE NAME: H:\SycamoreParkDistrict\16091\00 GreatWesternTrailExtension\16091\0.P2 Phase II Engineering\CAD\Structural\A1 Timber Br A GPE.dgn

ENGINEERING RESOURCE ASSOCIATES

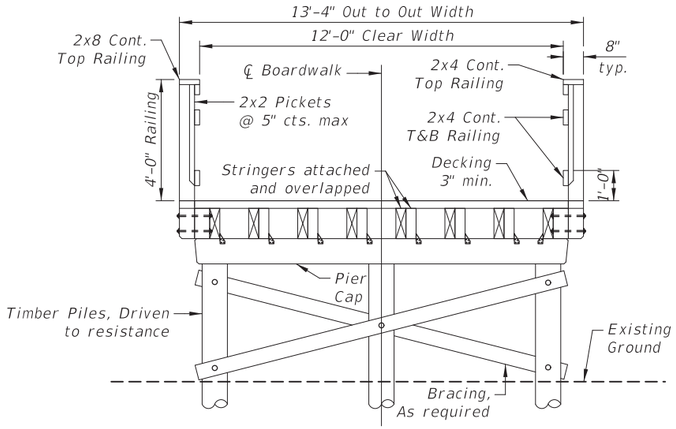
USER NAME = $USER$	DESIGNED C. SEDLACKO	REVISED -	
	DRAWN C. SEDLACKO	REVISED -	
PLOT SCALE = $SCALE$	CHECKED M. LANGE	REVISED -	
PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

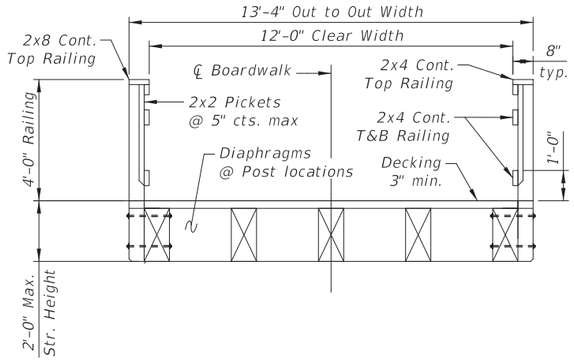
GREAT WESTERN TRAIL EXTENSION

SCALE: 1" = 5' | SHEET A1 OF A5 SHEETS | STA. _____ | TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	18-P4006-01-BT	DEKALB	58	29
		CONTRACT NO. 87730		
	ILLINOIS	FED. AID PROJECT		



TYPICAL SECTION- BOARDWALK



TYPICAL SECTION - TIMBER STRINGER RECREATION BRIDGE

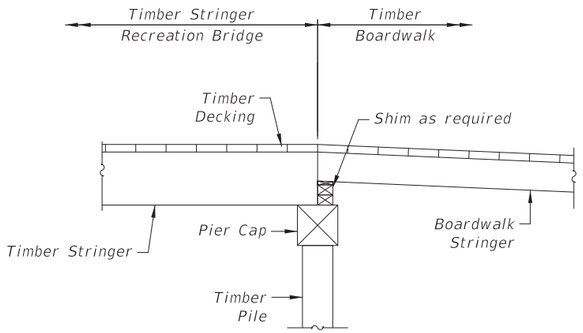
(taken Midspan)

TOTAL BILL OF MATERIAL

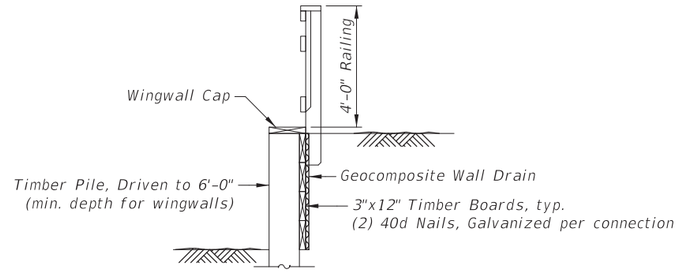
Pay Item	Unit	Quantity
Concrete Structures	Cu. Yd.	1.8
Protective Coat	Sq. Yd.	28
Concrete Superstructure (Approach)	Cu. Yd.	9.4
Reinforcement Bars, Epoxy Coated	Pound	2660
Granular Backfill for Structures	Cu. Yd.	17
Geocomposite Wall Drain	Sq. Yd.	17
Pipe Underdrains for Structures	Foot	56
Timber Stringer Recreation Bridge, Location 1	Sq. Ft.	416
Boardwalk	Sq. Ft	480

GENERAL NOTES

1. The contractor shall be responsible for designing, detailing, fabrication, delivery, construction and erection of the Timber Stringer Recreation Bridge and the Boardwalk.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
4. Boardwalk pay limits include clear width from centerline of pier to centerline of pier. Wingwalls are included in the cost of the boardwalk.
5. Timber stringer recreation Bridge pay limits include clear width from centerline of pier to centerline of pier.
6. Bridge/ Boardwalk Contractor willperform all work from the deck level. All foot traffic will be contained within six feet from the boardwalk path.
7. Bridge/ boardwalk construction to be completed by qualified and experienced contractor approved by the Owner.
8. Manufacturer Name Plate shall be provided and installed on the structure with design loading, weight, manufacturer and year built. Included in the cost Timber Stringer Recreation Bridge.

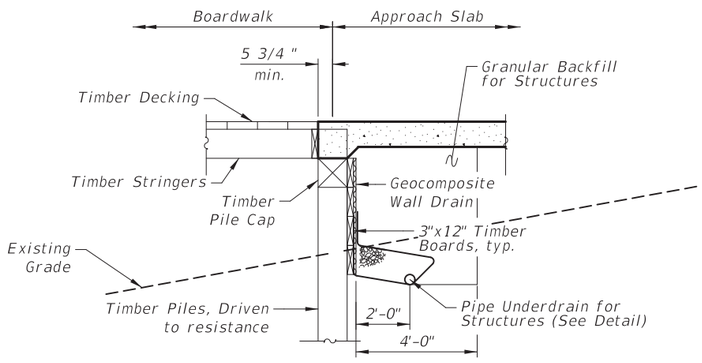


PIER DETAIL



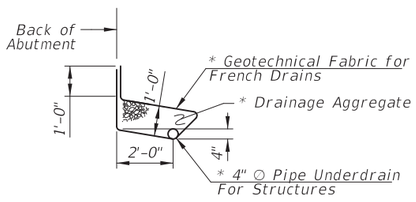
WINGWALL DETAIL: SECTION B-B

Wingwall Railing shall match boardwalk railing



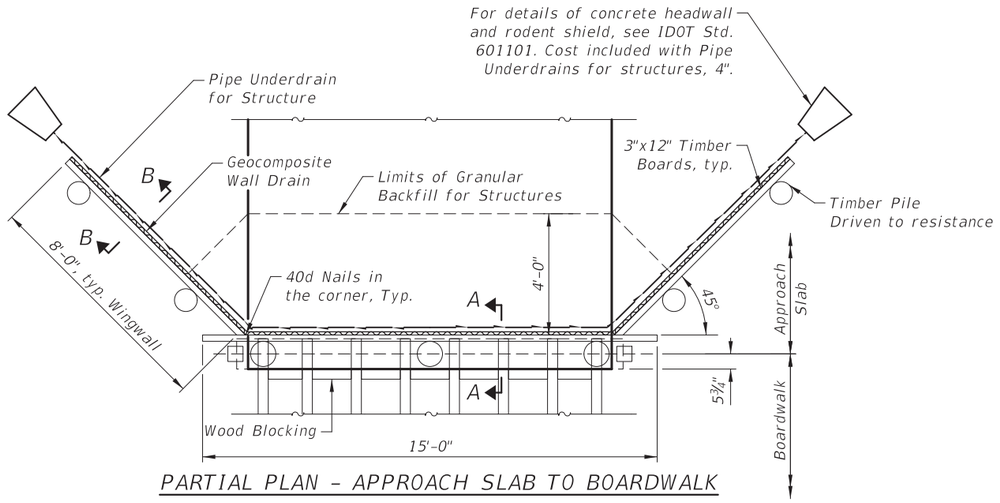
ABUTMENT DETAIL: SECTION A-A

(Approach slab needs to be supported by the Timber piles)



PIPE UNDERDRAIN DETAIL

* Included in the Cost of Pipe Underdrains for Structures



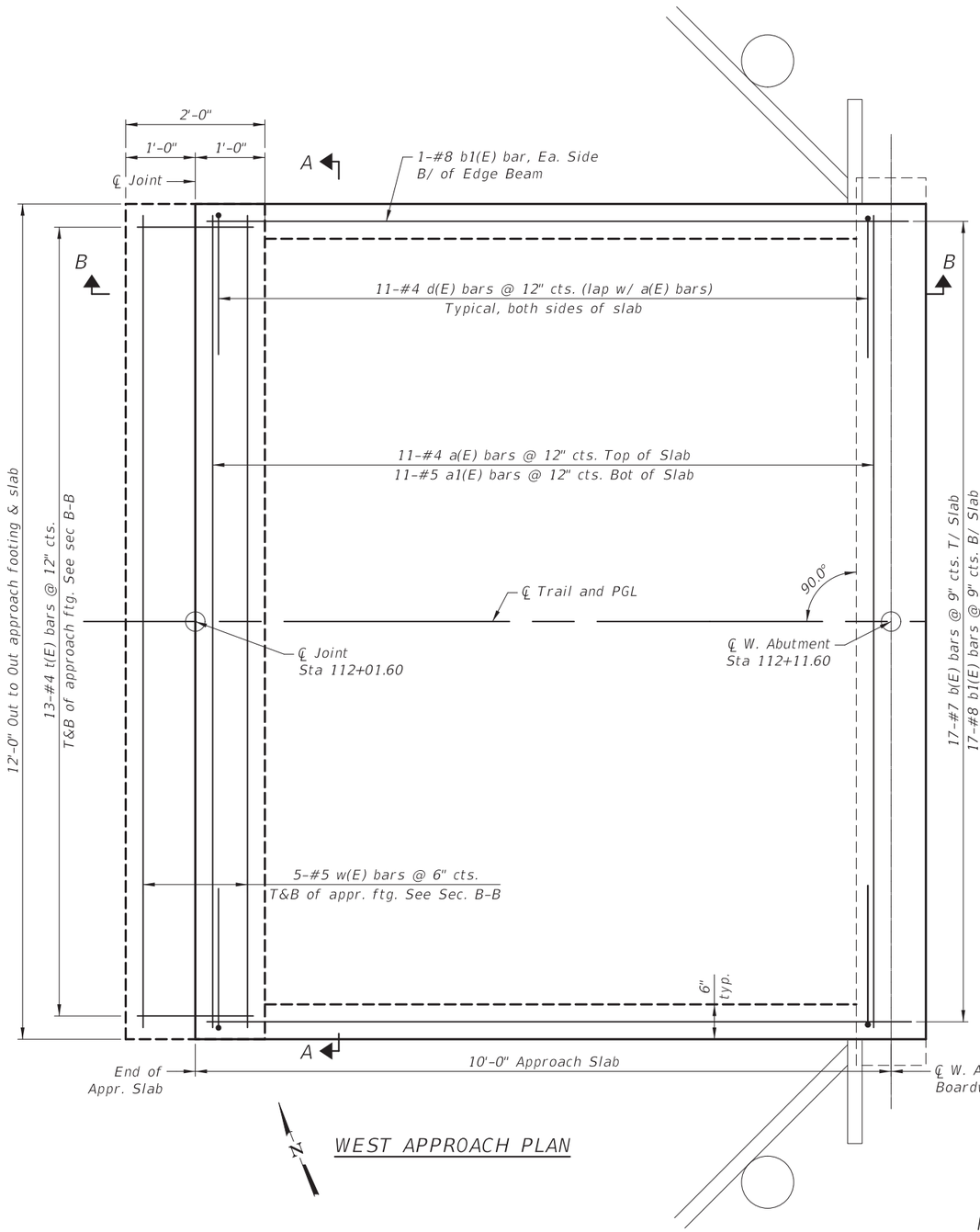
PARTIAL PLAN - APPROACH SLAB TO BOARDWALK

(Wingwalls are included in the cost of the boardwalk)

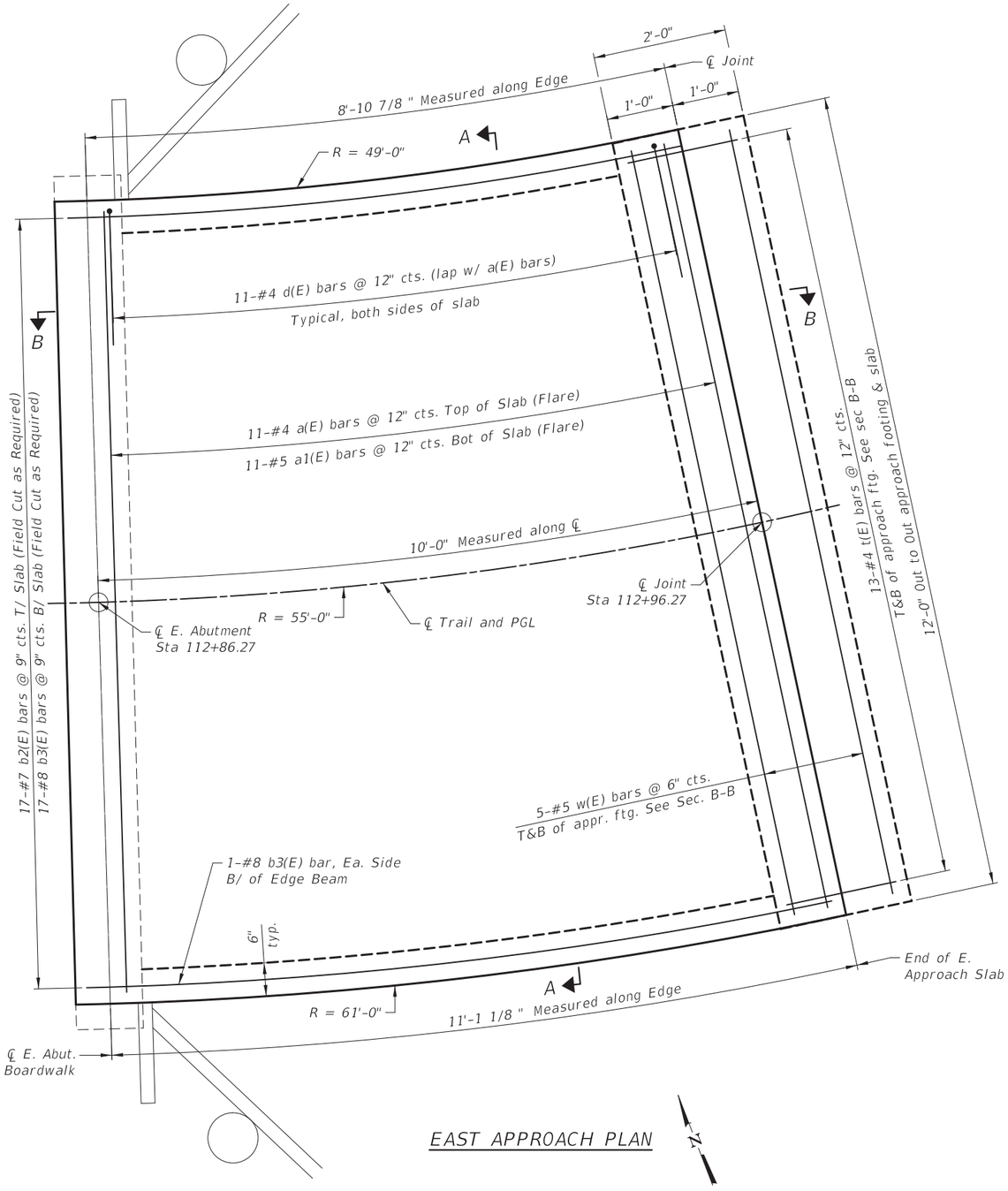
MODEL: Default
FILE NAME: H:\Sycamore\ParkDistrict\160910.00 GreatWesternTrailExtension\160910.02 Phase II Engineering\CAD\Structural\A2 Timber Br A General Data.dgn

ENGINEERING RESOURCE ASSOCIATES	USER NAME = sUSERS	DESIGNED C. SEDLACKO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GREAT WESTERN TRAIL EXTENSION TIMBER BRIDGE A: GENERAL DATA
		DRAWN C. SEDLACKO	REVISED - _____		
	PLOT SCALE = sSCALE$	CHECKED M. LANGE	REVISED - _____		SCALE: 1" = 5' SHEET A2 OF A5 SHEETS STA. _____ TO STA. _____
	PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED - _____		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	18-P4006-01-BT	DEKALB	58	30
		CONTRACT NO. 87730		
	ILLINOIS FED. AID PROJECT			



WEST APPROACH PLAN



EAST APPROACH PLAN

NOTES

1. See Sheet a4 for Section A-A and Section B-B
2. a(E) and a1(E) bar spacing measured along ℄ roadway

MODEL: Default
FILE NAME: H:\Sycamore\ParkDistrict\16091\0.00 GreatWesternTrailExtension\16091\0.P2 Phase II Engineering\CAD\Structura\A3 Timber Br A Approach Slab.dgn

ENGINEERING RESOURCE ASSOCIATES

USER NAME = $USER$	DESIGNED C. SEDLACKO	REVISED - _____	
	DRAWN C. SEDLACKO	REVISED - _____	
PLOT SCALE = $SCALE$	CHECKED M. LANGE	REVISED - _____	
PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED - _____	

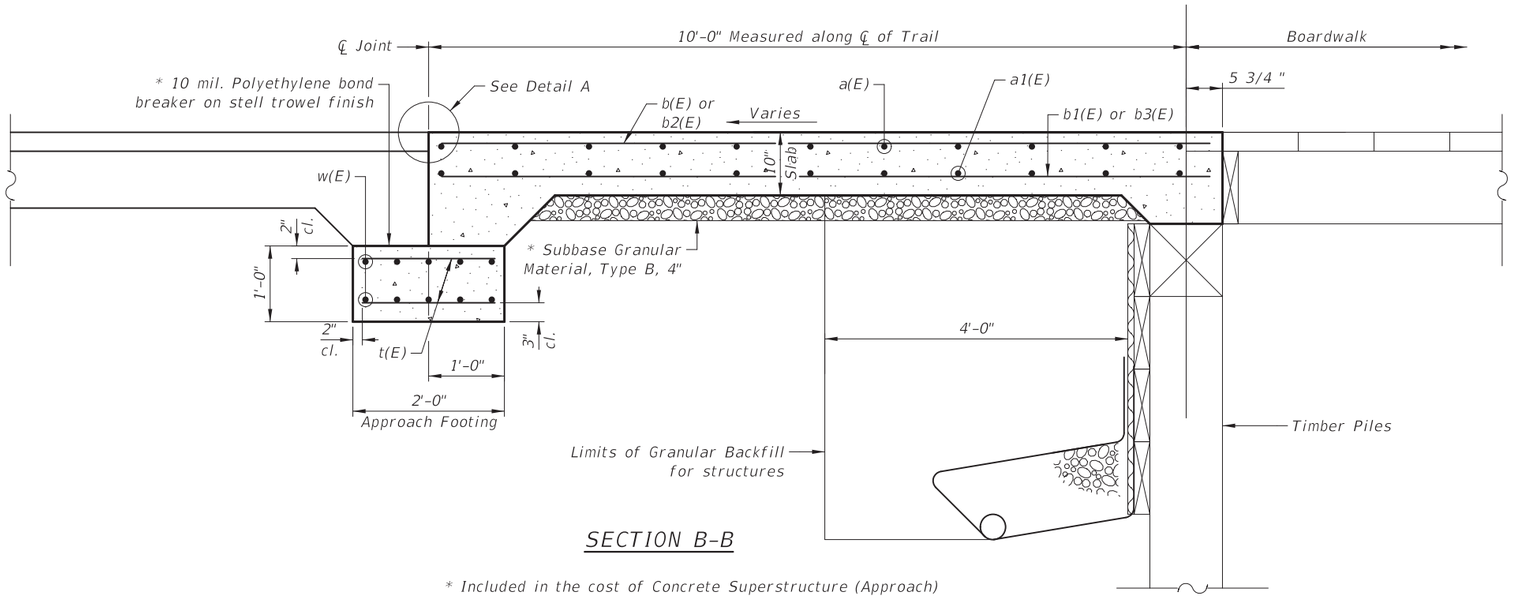
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
TIMBER BRIDGE A: APPROACH SLABS

SCALE: 1" = 1' | SHEET A3 OF A5 SHEETS | STA. _____ | TO STA. _____

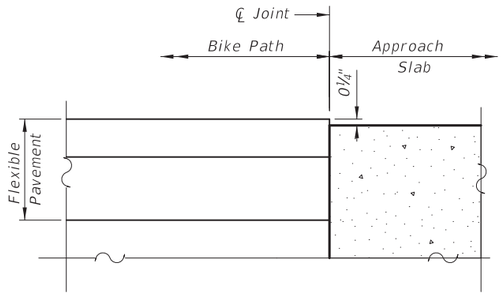
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	18-P4006-01-BT	DEKALB	58	31
		CONTRACT NO. 87730		
	ILLINOIS	FED. AID PROJECT		

Notes:
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet A2.

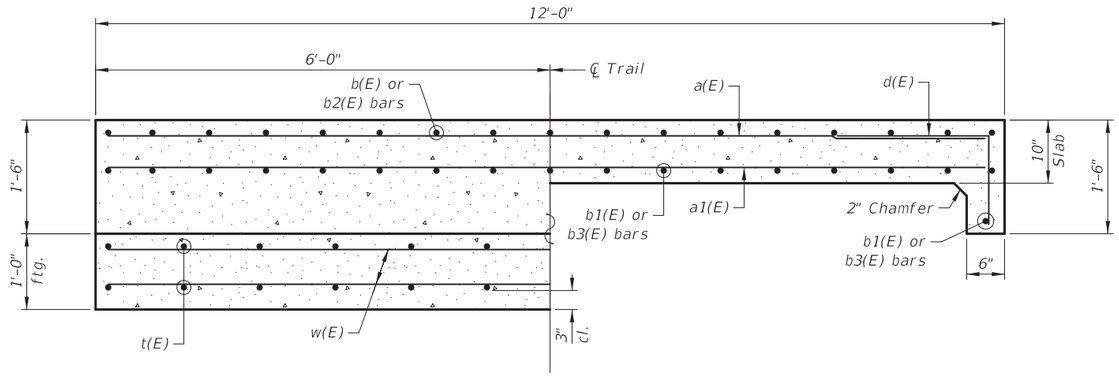


SECTION B-B

* Included in the cost of Concrete Superstructure (Approach)



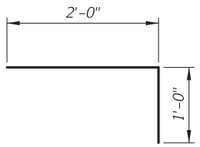
DETAIL A



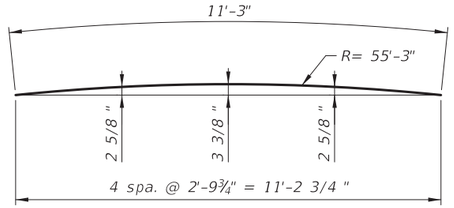
AT APPROACH FOOTING

NEAR ABUTMENT

SECTION A-A



d(E) BAR



b2(E) AND b3(E) BAR

TOTAL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	22	#4	11'-8"	——
a1(E)	22	#5	11'-8"	——
b(E)	17	#7	10'-2"	——
b1(E)	19	#8	10'-2"	——
b2(E)	17	#7	11'-3"	⌒
b3(E)	19	#8	11'-3"	⌒
d(E)	44	#4	3'-0"	⌐
t(E)	52	#4	1'-8"	——
w(E)	20	#5	11'-8"	——

Item	Unit	Quantity
Concrete Structures	Cu. Yd.	1.8
Concrete Superstructure (Approach Slab)	Cu. Yd.	9.4
Reinforcement Bars, Epoxy Coated	Pound	2,660

MODEL: Default
FILE NAME: H:\Sycamore Park District\16091000 Great Western Trail Extension\16091000 GreatWesternTrailExtension\16091000.P2 Phase II Engineering\CAD\Structura\A4 Timber Br A Approach Slab Details.dgn

ENGINEERING RESOURCE ASSOCIATES

USER NAME = $USER$	DESIGNED C. SEDLACKO	REVISED - _____
	DRAWN C. SEDLACKO	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED M. LANGE	REVISED - _____
PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
TIMBER BRIDGE A: APPROACH SLAB DETAILS

SCALE: 1" = 2' | SHEET A4 OF A5 SHEETS | STA. _____ | TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	18-P4006-01-BT	DEKALB	58	32
		CONTRACT NO. 87730		
	ILLINOIS FED. AID PROJECT			

MSET PROJECT NO.: 19282 | **LOG OF BORING NO. SB-2** | Page 1 of 2

PROJECT: Great Western Trail | SITE LOCATION: Sycamore, Illinois

BORING LOCATION: Structure 2, SE Abutment | CLIENT: Engineering Resourse Associates

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE TYPE/INTERVAL	SAMPLE NO.	SAMPLE N-VALUE Blows per ft.	TESTS Wc%	TESTS Dry Unit Weight, pcf	TESTS Unconfined Compressive Strength, tsf	REMARKS
0		Black CLAY, A-6 Topsoil (15")	826.5							
		Dark Grey Sandy LOAM, A-2-4, moist	825.3	SS	1	5	15			
		Brown SAND and GRAVEL, A-1-a, medium dense	824.0							
4		Clay Loam seam at 4.0'	822.5	SS	2	12	11			
				SS	3	11	14			
8				SS	4	11	19			
		Grey SAND and GRAVEL, A-1-a, medium dense	815.5	SS	5	21	15			
				SS	6	13	13			
16				SS	7A	12	9			
		Grey Clay LOAM, A-6, very stiff	810.0		7B	9	12	123	2.21	
20				SS	8	11	11		2.25 Qp	
				SS	9	13	11		2.5 Qp	
24				SS	10	13	14			
				SS	11	10	12		2.25 Qp	
28				SS	12	15	14		2.0 Qp	

WATER LEVEL OBSERVATIONS, ft.
DURING DRILLING: 2.5'
IMMEDIATELY AFTER DRILLING: 3.0'
DELAYED READING AFTER

MSET

BORING STARTED: 7/11/19
BORING COMPLETED: 7/11/19
LOGGED BY: GPF
BORING METHOD: HSA

Midland Standard Engineering & Testing, Inc. 410 Nolen Drive, South Elgin, Illinois 60177 (847) 844-1895 f(847) 844-3875

MSET PROJECT NO.: 19282 | **LOG OF BORING NO. SB-2** | Page 2 of 2

PROJECT: Great Western Trail | SITE LOCATION: Sycamore, Illinois

BORING LOCATION: Structure 2, SE Abutment | CLIENT: Engineering Resourse Associates

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE TYPE/INTERVAL	SAMPLE NO.	SAMPLE N-VALUE Blows per ft.	TESTS Wc%	TESTS Dry Unit Weight, pcf	TESTS Unconfined Compressive Strength, tsf	REMARKS
		Grey Clay LOAM, A-6, very stiff	795.5							
32		Grey SAND, and GRAVEL, A-1-a, with intermittent clay seams, medium dense	794.5	SS	13	11	11			
36										
40				SS	14	10	12			
		End of Boring at 40 Feet	786.5							

WATER LEVEL OBSERVATIONS, ft.
DURING DRILLING: 2.5'
IMMEDIATELY AFTER DRILLING: 3.0'
DELAYED READING AFTER

MSET

BORING STARTED: 7/11/19
BORING COMPLETED: 7/11/19
LOGGED BY: GPF
BORING METHOD: HSA

Midland Standard Engineering & Testing, Inc. 410 Nolen Drive, South Elgin, Illinois 60177 (847) 844-1895 f(847) 844-3875

ENGINEERING RESOURCE ASSOCIATES

USER NAME = $USER$	DESIGNED C. SEDLACKO	REVISED -	_____
	DRAWN C. SEDLACKO	REVISED -	_____
PLOT SCALE = $SCALE$	CHECKED M. LANGE	REVISED -	_____
PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED -	_____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
TIMBER BRIDGE A: SOIL BORING LOG

SCALE: N.T.S. | SHEET A5 OF A5 SHEETS | STA. _____ | TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	18-P4006-01-BT	DEKALB	58	33
		CONTRACT NO. 87730		
	ILLINOIS FED. AID PROJECT			

Benchmark: Set Cut Square in Concrete Foundation
Northing 1,939,474.525,
Easting 892,138.912, Elev. 831.173

Existing Structure: None.

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fb = as required (see Specifications)

DESIGN LOADING

Pedestrian Live Load (PL) 90 psf
H10 Truck (20,000 lbs)

DESIGN SPECIFICATIONS

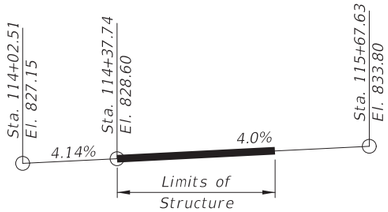
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges, 2nd Edition

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.102g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.14g
Soil Site Class = D

INDEX OF SHEETS



PROFILE GRADE

(Taken along ℄ Path)

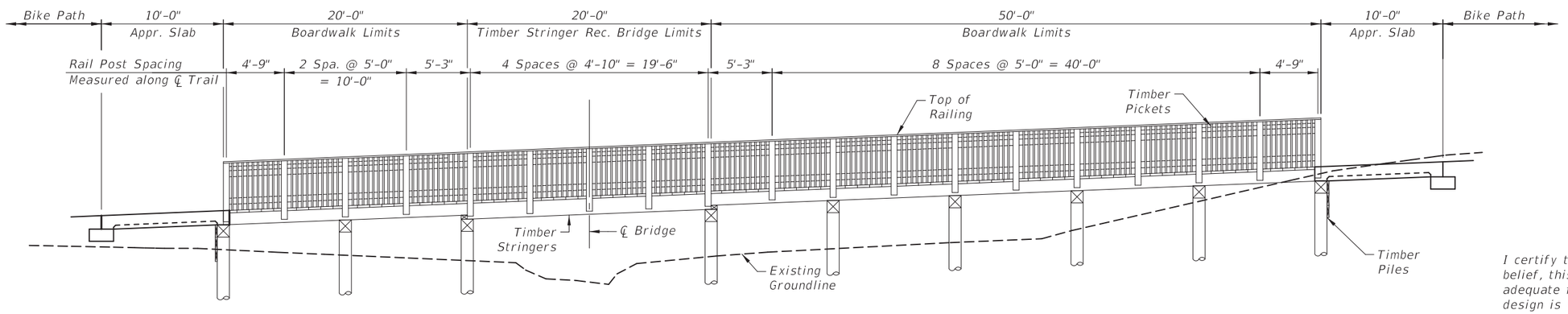
CURVE 2 DATA

P.I. Sta. = 114+18.96
Δ = 25° 31' 48"
D = 36° 57' 54"
R = 155.00'
T = 35.12'
L = 69.067'
E = 3.93'
P.C. Sta. = 113+83.84
P.T. Sta. = 114+52.91

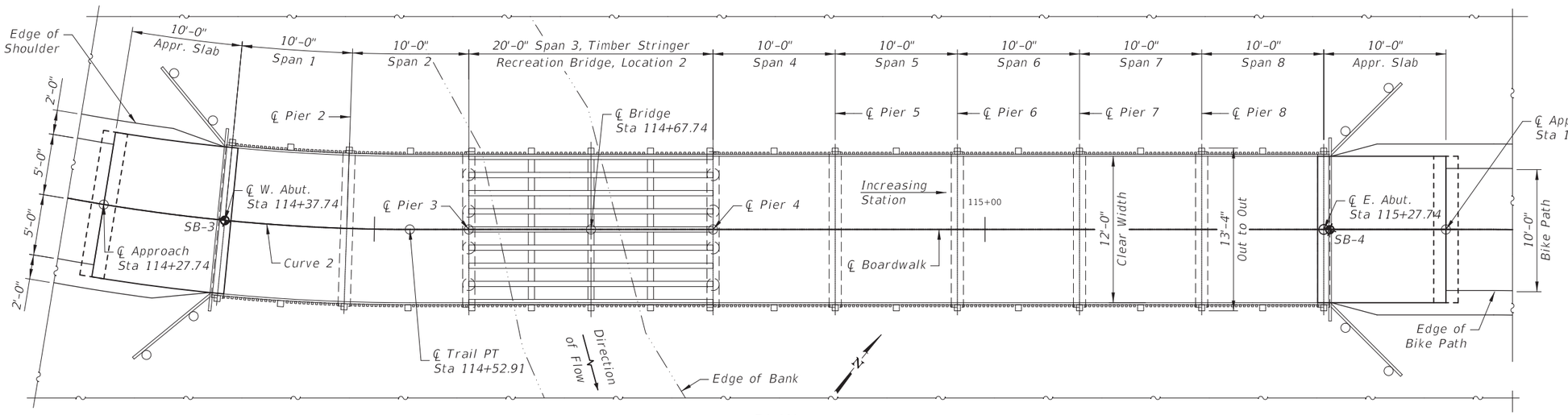
℄ STATIONS & ELEVATIONS

(Taken at ℄ Proposed Trail)

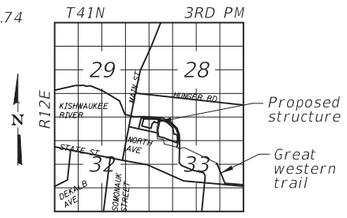
Location	Station	Elevation
℄ W. Appr.	114+27.74	828.19
℄ W. Abut.	114+37.74	828.60
℄ Pier 1	114+47.74	829.01
℄ Pier 2	114+57.74	829.41
℄ Pier 3	114+67.74	829.81
℄ Pier 4	114+87.74	830.61
℄ Pier 5	114+97.74	831.01
℄ Pier 6	115+07.74	831.41
℄ Pier 7	115+17.74	831.81
℄ E. Abut.	115+27.74	832.20
℄ E. Appr.	115+37.74	832.60



ELEVATION



PLAN



LOCATION SKETCH

ENGINEERING RESOURCE ASSOCIATES, INC.
MELISSA F. LANGE, S.E.

STATE OF ILLINOIS — MELISSA LANGE — 081-006488 — CHICAGO — LICENSED STRUCTURAL ENGINEER

MELISSA F. LANGE, S.E.
081-006488
EXP 11-2020
DATE 3-17-2020

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

TIMBER BRIDGE B:
GENERAL PLAN & ELEVATION
GREAT WESTERN TRAIL EXTENSION
DEKALB COUNTY
STA 114+67.74

ENGINEERING RESOURCE ASSOCIATES

USER NAME = $USER$	DESIGNED C. SEDLACKO	REVISED -	
	DRAWN C. SEDLACKO	REVISED -	
PLOT SCALE = $SCALE$	CHECKED M. LANGE	REVISED -	
PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED -	

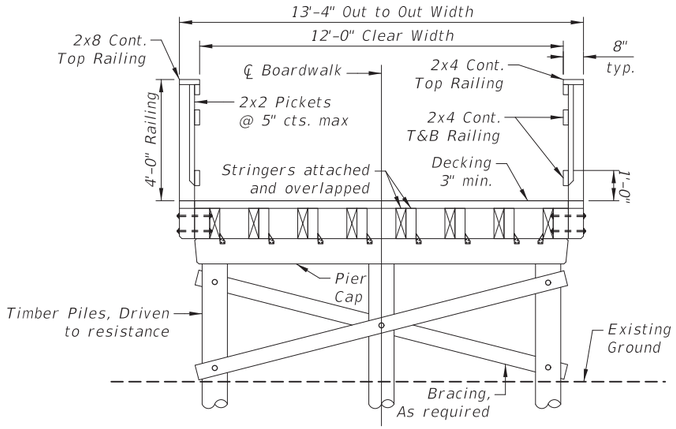
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION

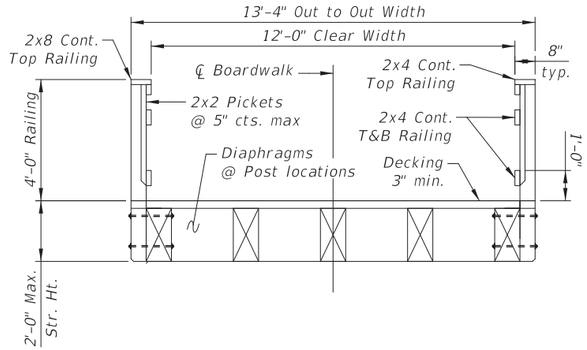
SCALE: 1" = 5' | SHEET B1 OF B5 SHEETS | STA. _____ | TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	18-P4006-01-BT	DEKALB	58	34
		CONTRACT NO. 87730		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: H:\Sycamore\Park\District\16091\0.00 GreatWesternTrailExtension\16091\0.P2 Phase II Engineering\CAD\Structural\B1 Timber Br B GPE.dgn



TYPICAL SECTION– BOARDWALK



TYPICAL SECTION – TIMBER STRINGER RECREATION BRIDGE

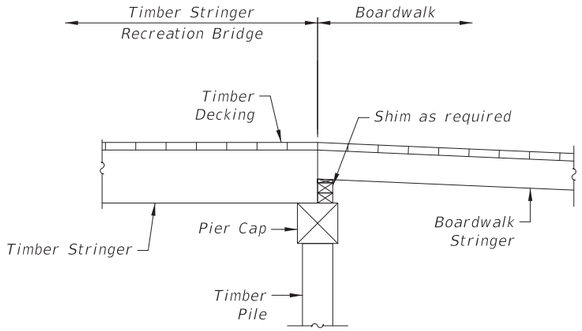
(taken Midspan)

TOTAL BILL OF MATERIAL

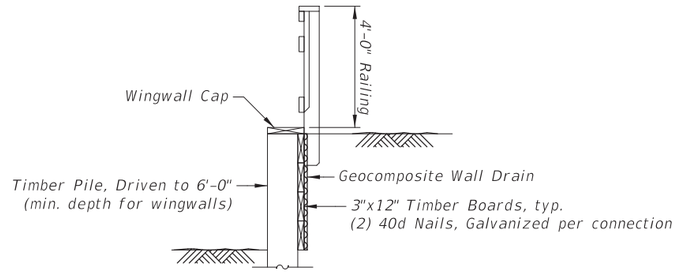
Pay Item	Unit	Quantity
Concrete Structures	Cu. Yd.	1.8
Protective Coat	Sq. Yd.	28
Concrete Superstructure (Approach)	Cu. Yd.	9.4
Reinforcement Bars, Epoxy Coated	Pound	2600
Granular Backfill for Structures	Cu. Yd.	17
Geocomposite Wall Drain	Sq. Yd.	20
Pipe Underdrains for Structures	Foot	56
Timber Stringer Recreation Bridge, Location 2	Sq. Ft.	240
Boardwalk	Sq. Ft	840

GENERAL NOTES

1. The contractor shall be responsible for designing, detailing, fabrication, delivery, construction and erection of the Timber Stringer Recreation Bridge and the Boardwalk.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
4. Boardwalk pay limits include clear width from centerline of pier to centerline of pier. Wingwalls are included in the cost of the boardwalk.
5. Timber stringer recreation Bridge pay limits include clear width from centerline of pier to centerline of pier.
6. Bridge/ Boardwalk Contractor willperform all work from the deck level. All foot traffic will be contained within six feet from the boardwalk path.
7. Bridge/ boardwalk construction to be completed by qualified and experienced contractor approved by the Owner.
8. Manufacturer Name Plate shall be provided and installed on the structure with design loading, weight, manufacturer and year built. Included in the cost Timber Stringer Recreation Bridge

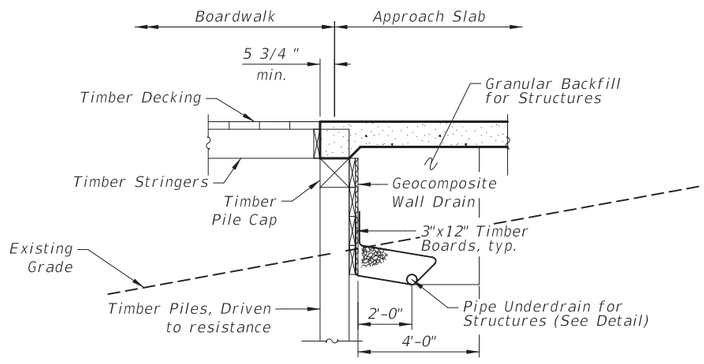


PIER DETAIL



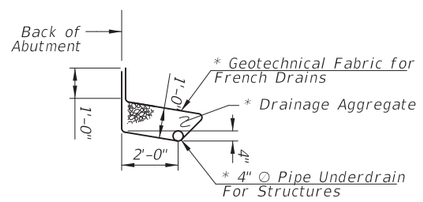
WINGWALL DETAIL: SECTION B–B

Wingwall Railing shall match boardwalk railing



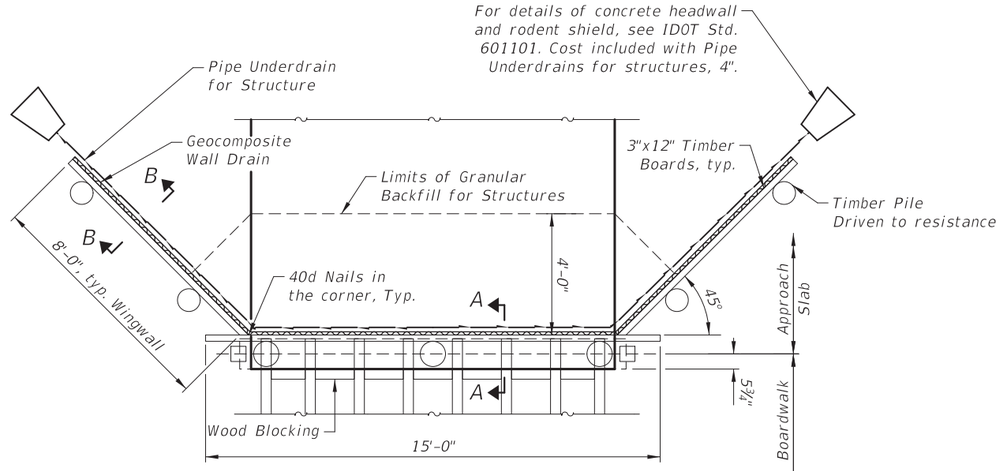
ABUTMENT DETAIL: SECTION A–A

(Approach slab needs to be supported by the Timber piles)



PIPE UNDERDRAIN DETAIL

* Included in the Cost of Pipe Underdrains for Structures



PARTIAL PLAN – APPROACH SLAB TO BOARDWALK

(Wingwalls are included in the cost of the boardwalk)

ENGINEERING RESOURCE ASSOCIATES

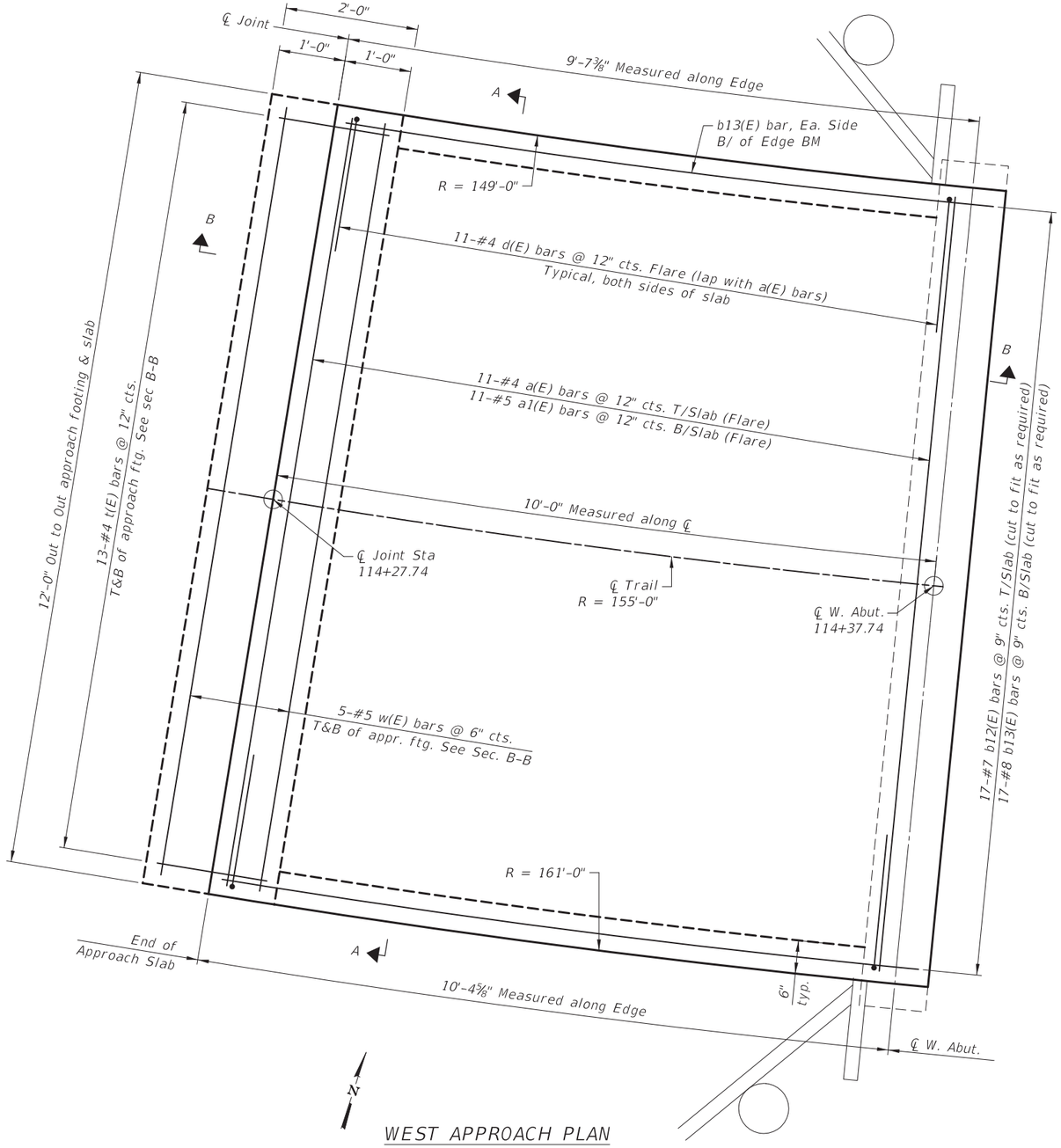
USER NAME = $USER$	DESIGNED C. SEDLACKO	REVISED -	
	DRAWN C. SEDLACKO	REVISED -	_____
PLOT SCALE = $SCALE$	CHECKED M. LANGE	REVISED -	_____
PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED -	_____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

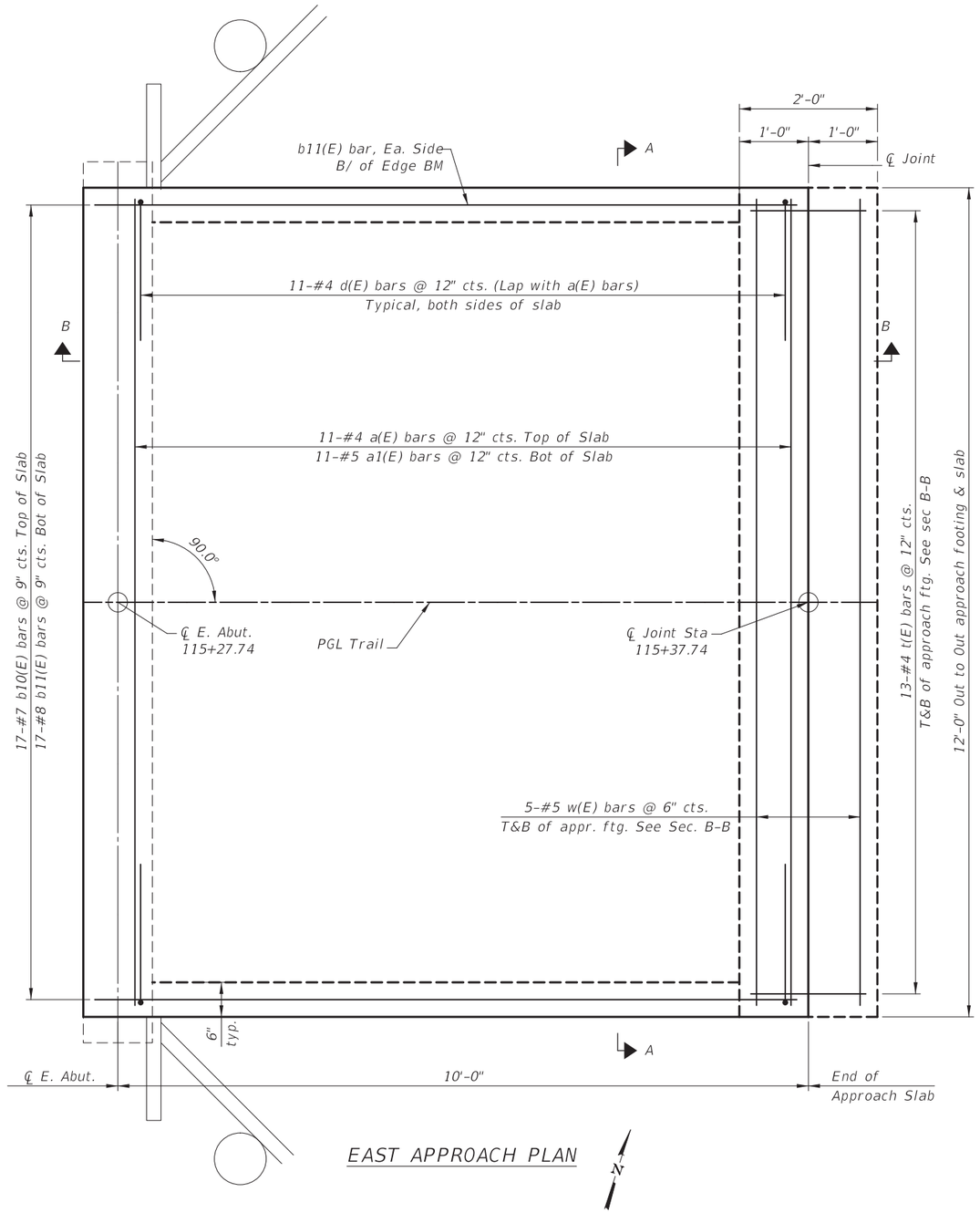
GREAT WESTERN TRAIL EXTENSION
TIMBER BRIDGE B: GENERAL DATA

SCALE: 1" = 5' | SHEET B2 OF B5 SHEETS | STA. _____ | TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	18-P4006-01-BT	DEKALB	58	35
		CONTRACT NO. 87730		
	ILLINOIS	FED. AID PROJECT		



WEST APPROACH PLAN



EAST APPROACH PLAN

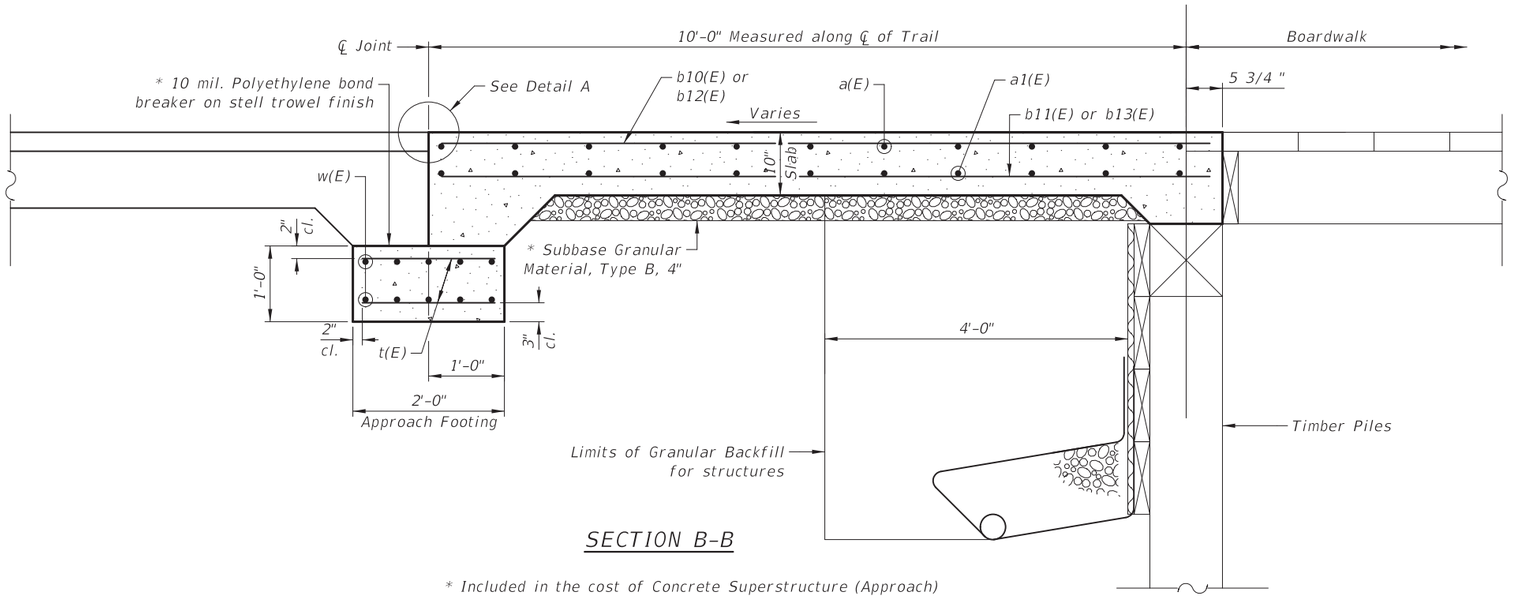
N

MODEL: Default
FILE NAME: H:\Sycamore\ParkDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\Structural\B3 Timber Br B Approach Slab.dgn

ENGINEERING RESOURCE ASSOCIATES	USER NAME = sUSERS	DESIGNED C. SEDLACKO	REVISED - _____	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**GREAT WESTERN TRAIL EXTENSION TIMBER BRIDGE B: APPROACH SLABS**
		DRAWN C. SEDLACKO	REVISED - _____		
	PLOT SCALE = sSCALES	CHECKED M. LANGE	REVISED - _____		SCALE: 1" = 1' SHEET B3 OF B5 SHEETS STA. _____ TO STA. _____
	PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED - _____		

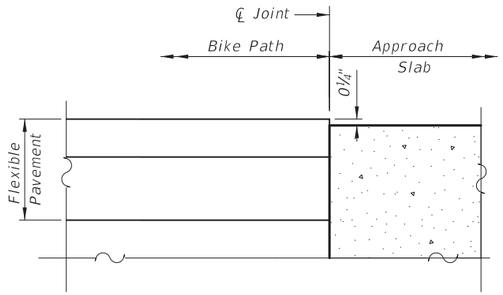
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	18-P4006-01-BT	DEKALB	58	36
		CONTRACT NO. 87730		
	ILLINOIS FED. AID PROJECT			

Notes:
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet B2.

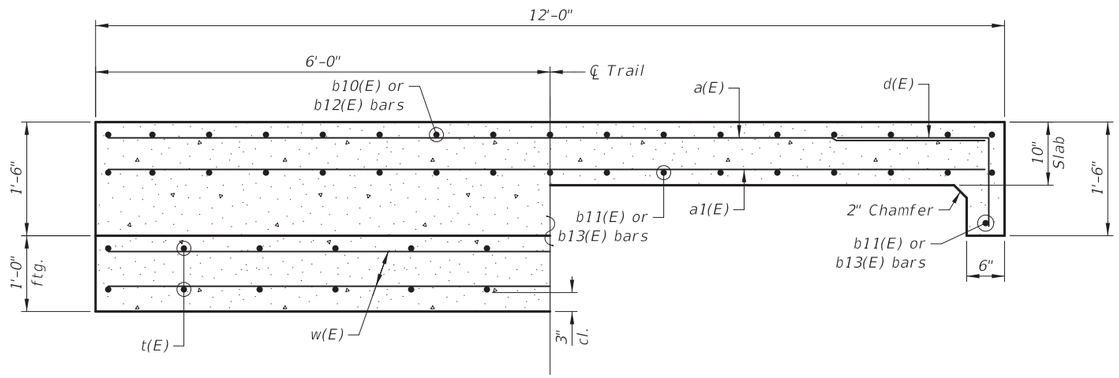


SECTION B-B

* Included in the cost of Concrete Superstructure (Approach)



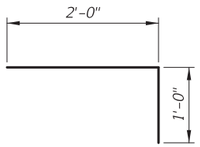
DETAIL A



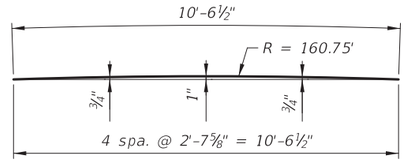
AT APPROACH FOOTING

NEAR ABUTMENT

SECTION A-A



d(E) BAR



b12(E) AND b13(E) BAR

TOTAL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	22	#4	11'-8"	——
a1(E)	22	#5	11'-8"	——
b10(E)	17	#7	10'-2"	——
b11(E)	19	#8	10'-2"	——
b12(E)	17	#7	10'-6½"	⌒
b13(E)	19	#8	10'-6½"	⌒
d(E)	44	#4	3'-0"	⌐
t(E)	52	#4	1'-8"	——
w(E)	20	#5	11'-8"	——

Item	Unit	Quantity
Concrete Structures	Cu. Yd.	1.8
Concrete Superstructure (Approach Slab)	Cu. Yd.	9.4
Reinforcement Bars, Epoxy Coated	Pound	2570

MODEL: Default
FILE NAME: H:\Sycamore\ParkDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\Structural\B4 Timber Br. B Approach Details.dgn

ENGINEERING RESOURCE ASSOCIATES

USER NAME = $USER$	DESIGNED C. SEDLACKO	REVISED - _____
	DRAWN C. SEDLACKO	REVISED - _____
PLOT SCALE = $SCALE$	CHECKED M. LANGE	REVISED - _____
PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
TIMBER BRIDGE B: APPROACH SLAB DETAILS

SCALE: 1" = 2' | SHEET B4 OF B5 SHEETS | STA. _____ | TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	18-P4006-01-BT	DEKALB	58	37
		CONTRACT NO. 87730		
	ILLINOIS	FED. AID PROJECT		

MSET PROJECT NO.: 19282 | **LOG OF BORING NO. SB-3** | Page 1 of 2

PROJECT: Great Western Trail | SITE LOCATION: Sycamore, Illinois

BORING LOCATION: West Abutment, Structure #3 | CLIENT: Engineering Resourse Associates

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE TYPE/ INTERVAL	SAMPLE NO.	SAMPLE N-VALUE Blows per ft.	TESTS Wc%	TESTS Dry Unit Weight, pcf	TESTS Unconfined Compressive Strength, tsf	REMARKS
0		Black Silty CLAY, Topsoil (13")	826.0							
		Brown (f-m) SAND, A-3, slightly dense moist	824.9	SS	1	5	9			
		clay seam at 2.5 feet	823.5							
4		Brown SAND and GRAVEL, A-1-a, slightly to medium dense	823.0	SS	2	8	12			
				SS	3	9	12			
8				SS	4	7	11			
				SS	5	17	13			
12		clay seam at 12.5'	813.5							
				SS	6	19	4			
		cobbles 15 to 17 feet	811.0							
16				SS	7	15	8			
		Grey Clay LOAM, A-6, very stiff	807.0	SS	8	15	11			
20				CC	9	17	12			2.60
				SS	10	18	12			2.37
24		sand seam at 25 feet	801.0							
				SS	11	13	13			1.82
28				SS	12	12	12	127		2.02

WATER LEVEL OBSERVATIONS, ft.
DURING DRILLING: 3.5'
IMMEDIATELY AFTER DRILLING: 4.0'
DELAYED READING AFTER

MSET

BORING STARTED: 7/12/19
BORING COMPLETED: 7/12/19
LOGGED BY: GPF
BORING METHOD: HSA

Midland Standard Engineering & Testing, Inc. 410 Nolen Drive, South Elgin, Illinois 60177 (847) 844-1895 f(847) 844-3875

MSET PROJECT NO.: 19282 | **LOG OF BORING NO. SB-3** | Page 2 of 2

PROJECT: Great Western Trail | SITE LOCATION: Sycamore, Illinois

BORING LOCATION: West Abutment, Structure #3 | CLIENT: Engineering Resourse Associates

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE TYPE/ INTERVAL	SAMPLE NO.	SAMPLE N-VALUE Blows per ft.	TESTS Wc%	TESTS Dry Unit Weight, pcf	TESTS Unconfined Compressive Strength, tsf	REMARKS
32		Grey Clay LOAM, A-6, very stiff	795.0							
				SS	13	13	11			3.0 Qp
		Sand seam at 34.5 feet	791.5							
36		Grey SAND and GRAVEL, A-1-a, slightly dense	789.5							
				SS	14	8	11			
40		End of Boring at 40 Feet	786.0							

WATER LEVEL OBSERVATIONS, ft.
DURING DRILLING: 3.5'
IMMEDIATELY AFTER DRILLING: 4.0'
DELAYED READING AFTER

MSET

BORING STARTED: 7/12/19
BORING COMPLETED: 7/12/19
LOGGED BY: GPF
BORING METHOD: HSA

Midland Standard Engineering & Testing, Inc. 410 Nolen Drive, South Elgin, Illinois 60177 (847) 844-1895 f(847) 844-3875

MSET PROJECT NO.: 19282 | **LOG OF BORING NO. SB-4** | Page 1 of 2

PROJECT: Great Western Trail | SITE LOCATION: Sycamore, Illinois

BORING LOCATION: East Abutment, Structure #3 | CLIENT: Engineering Resourse Associates

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE TYPE/ INTERVAL	SAMPLE NO.	SAMPLE N-VALUE Blows per ft.	TESTS Wc%	TESTS Dry Unit Weight, pcf	TESTS Unconfined Compressive Strength, tsf	REMARKS
0		Black Silty CLAY Topsoil (12")	831.5							
		Dark Grey Sandy LOAM, A-2-4, loose	830.5	SS	1	4	27			
		Brown SAND and GRAVEL, A-1-a, medium dense	828.5	SS	2	10	14			
4										
		Grey SAND and GRAVEL, A-1-a, medium dense, with intermittent clay seams	826.0	SS	3	13	14			
8		Grey Clay LOAM, A-3, very stiff	823.5	SS	4	11	18			2.83
		Grey SAND and GRAVEL, A-1-a, medium dense	821.0	SS	5	13	19			
12										
				SS	6	13	15			
16				SS	7	13	10			
		Grey Clay LOAM, A-6, stiff	812.5	SS	8A	28	11			
				SS	8B	9	12	125		1.24
20				SS	9	9	12	125		1.32
				SS	10	7	12			1.16
24										
				SS	11	6	13			0.70
28				SS	12	4	12			1.0 Qp

WATER LEVEL OBSERVATIONS, ft.
DURING DRILLING: 2.5'
IMMEDIATELY AFTER DRILLING: 3.5'
DELAYED READING AFTER

MSET

BORING STARTED: 7/12/19
BORING COMPLETED: 7/12/19
LOGGED BY: GPF
BORING METHOD: HSA

Midland Standard Engineering & Testing, Inc. 410 Nolen Drive, South Elgin, Illinois 60177 (847) 844-1895 f(847) 844-3875

MSET PROJECT NO.: 19282 | **LOG OF BORING NO. SB-4** | Page 2 of 2

PROJECT: Great Western Trail | SITE LOCATION: Sycamore, Illinois

BORING LOCATION: East Abutment, Structure #3 | CLIENT: Engineering Resourse Associates

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE TYPE/ INTERVAL	SAMPLE NO.	SAMPLE N-VALUE Blows per ft.	TESTS Wc%	TESTS Dry Unit Weight, pcf	TESTS Unconfined Compressive Strength, tsf	REMARKS
32		Grey SAND, A-3, medium dense	799.5							
				SS	13	10	12			
36		Grey SAND and GRAVEL, A-1-a, medium dense	794.5							
				SS	14	10	12			
40		End of Boring at 40 Feet	791.5							

WATER LEVEL OBSERVATIONS, ft.
DURING DRILLING: 2.5'
IMMEDIATELY AFTER DRILLING: 3.5'
DELAYED READING AFTER

MSET

BORING STARTED: 7/12/19
BORING COMPLETED: 7/12/19
LOGGED BY: GPF
BORING METHOD: HSA

Midland Standard Engineering & Testing, Inc. 410 Nolen Drive, South Elgin, Illinois 60177 (847) 844-1895 f(847) 844-3875

MODEL: Default
FILE NAME: H:\Sycamore\Park\Bt\Hct\16091\0.00_GreatWesternTrailExtension\16091\0.P2 Phase II Engineering\CAD\Structura\B5 Timber Br. B Soil Borings.dgn

ENGINEERING RESOURCE ASSOCIATES

USER NAME = $USER$	DESIGNED C. SEDLACKO	REVISED -	_____
	DRAWN C. SEDLACKO	REVISED -	_____
PLOT SCALE = $SCALE$	CHECKED M. LANGE	REVISED -	_____
PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED -	_____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
TIMBER BRIDGE B: SOIL BORING LOGS

SCALE: N.T.S. | SHEET B5 OF B5 SHEETS | STA. _____ | TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	18-P4006-01-BT	DEKALB	58	38
		CONTRACT NO. 87730		
	ILLINOIS	FED. AID PROJECT		

Benchmark: Set Cut Square in Concrete Foundation near Sta 118+50, Elev. 831.173

Existing Structure: The original structure was a railroad supported on concrete piers. The railroad was abandoned and the concrete substructure units still remain.

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges, 2nd Edition

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi (Substructure)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi, (M270 Grade 50W)

SEISMIC DATA

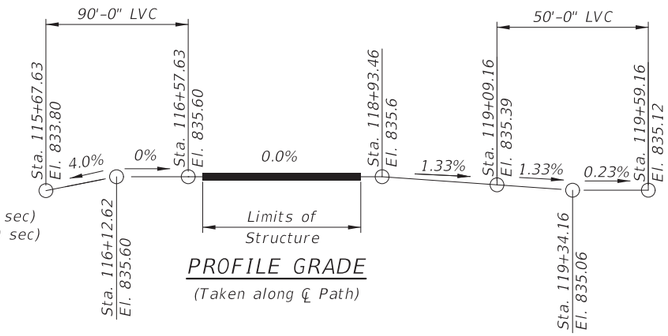
Seismic Performance Zone (SPZ) = Category C
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.14g (0.2 sec)
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.102g (1.0 sec)
Soil Site Class = Class D

DESIGN LOADING

Pedestrian Live Load (PL) 90 psf
H-10 Truck (20,000 lbs)

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)		
	W. Abut.	E. Abut.	Item 113
Q100	830.29	830.29	5
Q200	830.29	830.29	5
Design	830.29	830.29	5
Check	830.29	830.29	5



PROFILE GRADE

(Taken along ℄ Path)

WATERWAY INFORMATION

Drainage Area = 105.4 Sq. miles Low Grade Elev. 820.15 @ Sta. 117+29

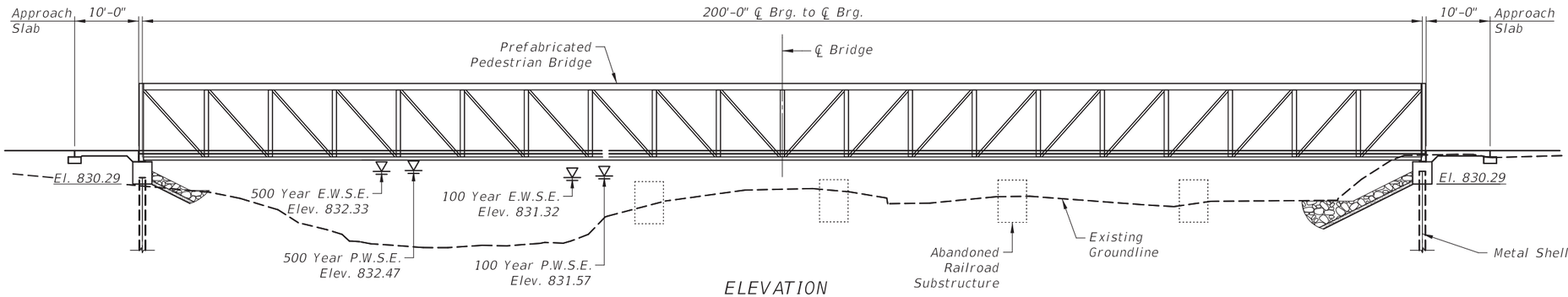
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	4400	698	698	830.0	0.0	0.1	830.0	830.1
Design	100	7200	985	985	831.7	0.0	0.0	831.7	831.7
Base	100	7200	985	985	831.7	0.0	0.0	831.7	831.7
Overtopping									
Max. Calc.	500	9000	1142	1140	832.6	0.0	0.0	832.6	832.6

10-Year Existing Velocity = N/A
10-Year Proposed Velocity = 6.32 ft/s

CURVE 4 DATA

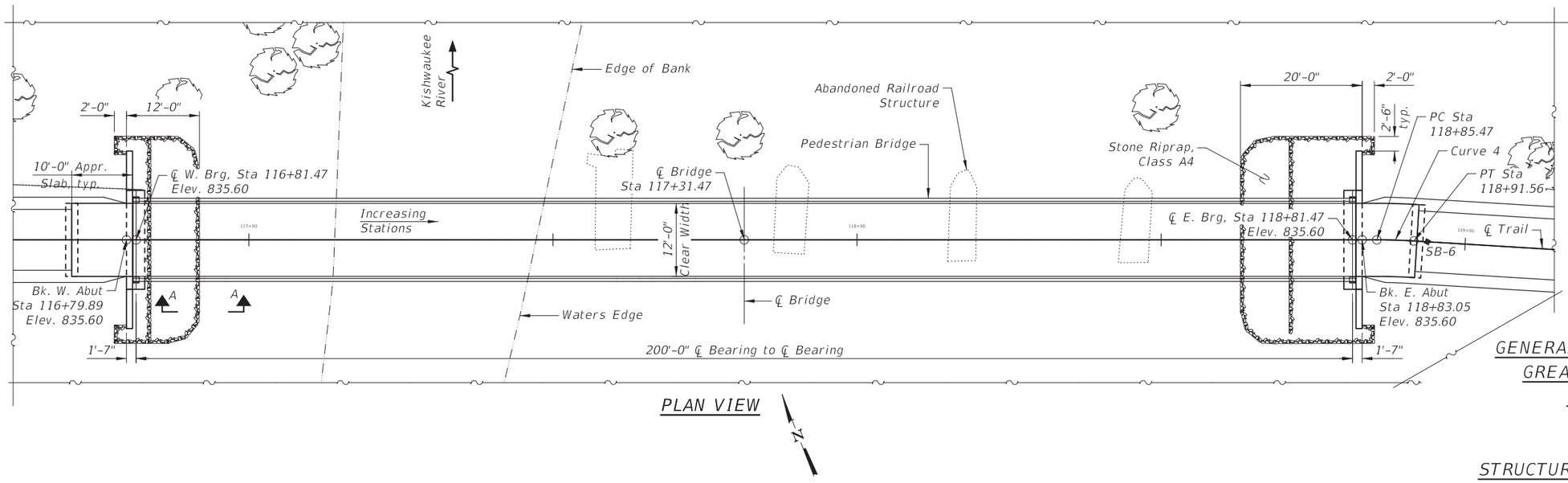
P.I. Sta. = 118+88.52
Δ = 3° 29' 31.2"
D = 57° 17' 45.6"
R = 100.00'
T = 3.05'
L = 6.095'
E = 0.0465'
P.C. Sta. = 118+85.47
P.T. Sta. = 118+91.56

INDEX OF SHEETS

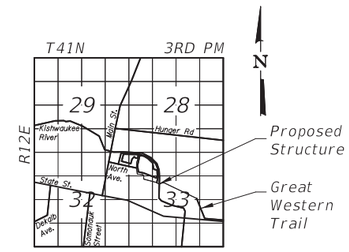


ELEVATION

(Bridge Fence Railing is not shown)



PLAN VIEW



LOCATION SKETCH

ENGINEERING RESOURCE ASSOCIATES, INC.
MELISSA F. LANGE, S.E.

STATE OF ILLINOIS — MELISSA LANGE — 081-006488 — PROFESSIONAL STRUCTURAL ENGINEER

MELISSA F. LANGE, S.E.
081-006488
EXP 11-2020
DATE 3-17-2020

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

GENERAL PLAN & LONGITUDINAL SECTION
GREAT WESTERN TRAIL EXTENSION
SECTION 18-P4006-01-BT
DEKALB COUNTY
STA 117+31.47
STRUCTURE NO. 019-P002.2 (TRACKING ONLY)

MODEL: Default
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ENGINEERING RESOURCE ASSOCIATES

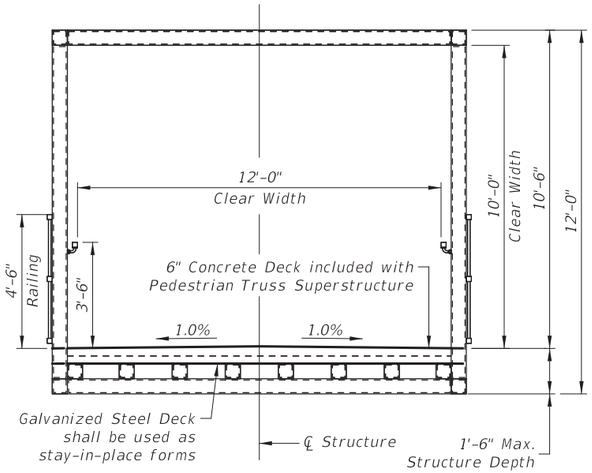
USER NAME = $USER$	DESIGNED C. SEDLACKO	REVISED -	_____
	DRAWN C. SEDLACKO	REVISED -	_____
PLOT SCALE = $SCALE$	CHECKED M. LANGE	REVISED -	_____
PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED -	_____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

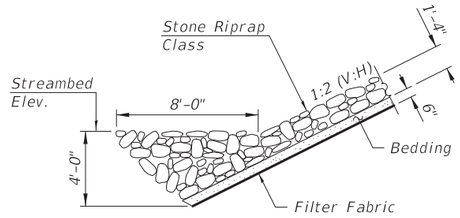
GREAT WESTERN TRAIL EXTENSION

SCALE: 1" = 10' | SHEET S1 OF S10 SHEETS | STA. _____ | TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	18-P4006-01-BT	DEKALB	58	39
		CONTRACT NO. 87730		
	ILLINOIS	FED. AID PROJECT		



TYPICAL SECTION



SECTION A-A

SEC. THRU ABUT.

*Included in the cost of Pipe Underdrains for Structures.
(See Special Provisions)

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

GENERAL NOTES

1. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
2. The Contractor shall obtain a construction permit from the Illinois department of Natural Resources (IDNR), Office of Water Resources for any temporary constriction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3700 Floodway Construction permit number allowing permanent construction as shown in the contract plans.
3. The prefabricated pedestrian bridge shall be designed, fabricated, delivered and erected acoording to the Special Provisions of "Pedestrian Truss Superstructure" and design plans.
4. Manufacturer Name plate shall be provided and installed on the structure with design loading, weight, manufacturer and year built. Included in the cost of Pedestrian Truss Superstructure.
5. The last 10'-0" on each side of the pedestrian structure shall be painted. The top coat shall match the Reddish Brown, Munsell No. 2.5 YE3/4.
6. Truss manufacturer shall provide the reinforced concrete deck design. Concrete deck to utilize stay-in-place galvanized forms. Reinforcement shall be epoxy coated. Contractor shall place the concrete after the truss is set. Cost included with Pedestrian Truss Superstructure.
7. Truss Manufacturer shall camber the truss as necessary to provide allowance for dead load deflection.
8. No field welding is permitted except as specified in the contract documents.
9. Reinforcement bars designated (E) shall be epoxy coated.
10. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01ft). Adjustment shall be made either by grinding the surface or by shimming the bearings.
11. Concrete Sealer shall be applied to the designated areas of the abutments.
12. When the deck pour is stopped for the day at one or more of the transverse bonded construction joints in the deck, the next pour shall not be made until both of the following are met:

    A. At least 72 hours shall have elapsed from the end of the previous pour.

    B. The concrete strength shall have attained a minimum flexural strength of 650psi or a minimum compressive strength of 3500psi.

BRIDGE REACTIONS

Load Type	P (kips)	Lateral (kips)	Long. (kips)
Dead Load	85.23	-	-
Uniform Live Load	56.63	-	-
Vehicle Load	10.00	-	-
Wind Uplift	-21.88	-	-
Wind	21.49	40.25	-
Thermal	-	-	12.79

Table References
P - Vertical Load at each base plate (4 per bridge)
H - Horizontal load at each footing (2 per bridge)
L - Longitudinal load at each bearing (4 per bridge)
Positive - Downward load
Negative - Upward Load

TOTAL BILL OF MATERIAL

PAY ITEM	UNIT	QTY
Stone Riprap, Class A4	Sq. Yd.	112
Filter Fabric	Sq. Yd.	112
Structure Excavation	Cu. Yd.	59
Concrete Structures	Cu. Yd.	17.6
Protective Coat	Sq. Yd.	359
Concrete Superstructure (Approach)	Cu. Yd.	9.4
Reinforcement Bars, Epoxy Coated	Pound	4690
Furnishing Metal Shell Piles 14"x.312"	Foot	240
Driving Piles	Foot	240
Test Pile Metal Shells	Each	2
Granular Backfill for Structures	Cu. Yd.	23
Concrete Sealer	Sq. Ft.	118
Geocomposite Wall Drain	Sq. Yd.	26
Concrete Headwall for Pipe Drains	Each	4
Pedestrian Truss Superstructure	Sq. Ft.	2410
Bridge Fence Railing (Special)	Foot	400
Pipe Underdrains for Structures, 4"	Foot	58.5

ENGINEERING RESOURCE ASSOCIATES

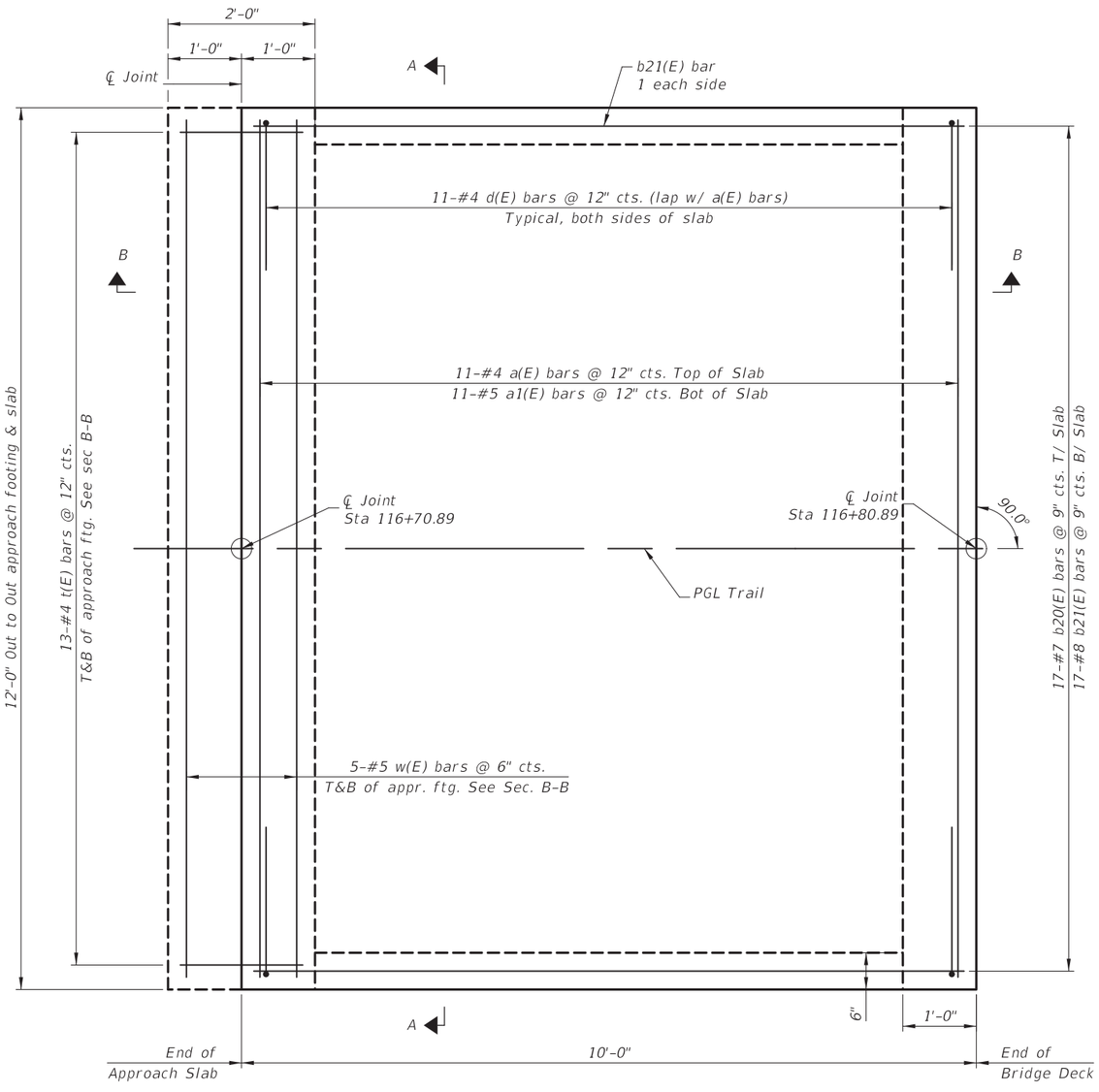
USER NAME = $USER$	DESIGNED C. SEDLACKO	REVISED -	_____
	DRAWN C. SEDLACKO	REVISED -	_____
PLOT SCALE = $SCALE$	CHECKED M. LANGE	REVISED -	_____
PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED -	_____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

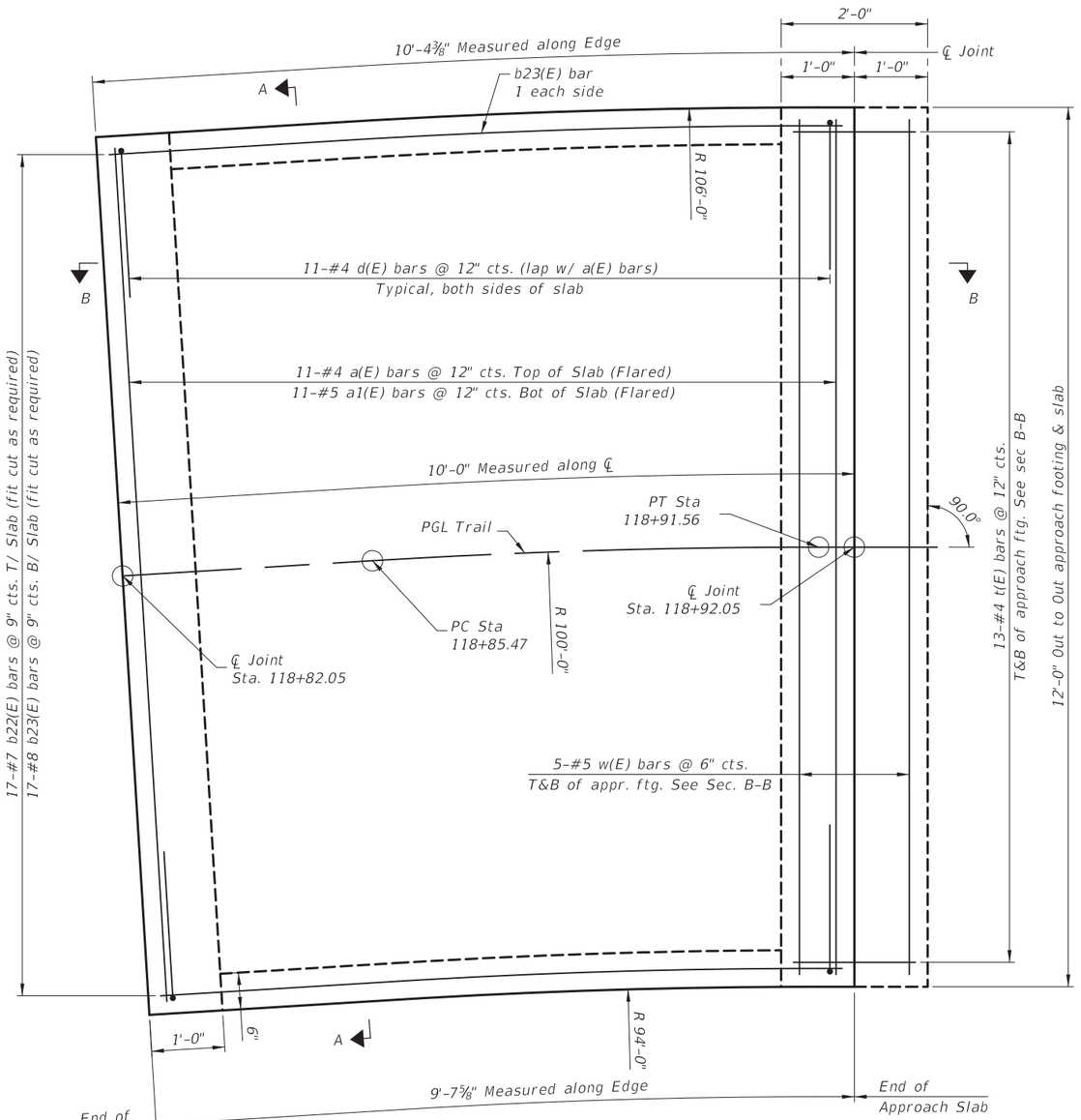
GREAT WESTERN TRAIL EXTENSION
PREFABRICATED STEEL BRIDGE: GENERAL DATA

SCALE: 1" = 5' | SHEET S2 OF S10 SHEETS | STA. _____ | TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
__	18-P4006-01-BT	DEKALB	58	40
		CONTRACT NO. 87730		
	ILLINOIS	FED. AID PROJECT		



WEST APPROACH PLAN



EAST APPROACH PLAN

NOTES

1. See Sheet S4 for Section A-A and Section B-B
2. a(E) and a1(E) bar spacing measured along ℄ roadway

MODEL: Default
FILE NAME: H:\Sycamore Park District\160910.00 Great Western Trail Extension\160910.P2 Phase II Engineering\CAD\Structural\S3 Prefab. Std Approach Details.dgn

ENGINEERING RESOURCE ASSOCIATES

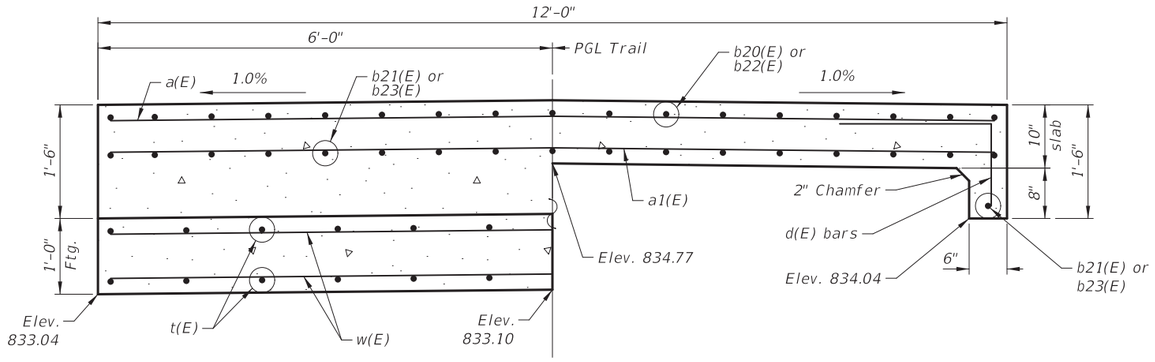
USER NAME = $USER$	DESIGNED C. SEDLACKO	REVISED -	_____
	DRAWN C. SEDLACKO	REVISED -	_____
PLOT SCALE = $SCALE$	CHECKED M. LANGE	REVISED -	_____
PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED -	_____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
PREFABRICATED STEEL BRIDGE: APPROACH SLAB PLAN

SCALE: 1" = 1' | SHEET S3 OF S10 SHEETS | STA. _____ | TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
__	18-P4006-01-BT	DEKALB	58	41
		CONTRACT NO. 87730		
	ILLINOIS	FED. AID PROJECT		

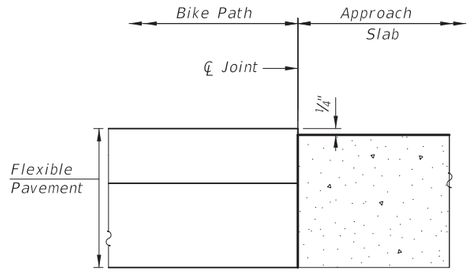


AT APPROACH FOOTING

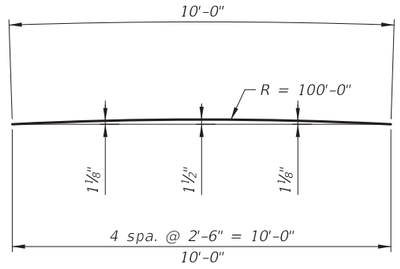
NEAR ABUTMENT

SECTION A-A

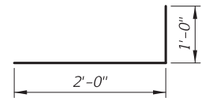
Notes:
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet A1.
See Sheet S6 for v3(E) bars.



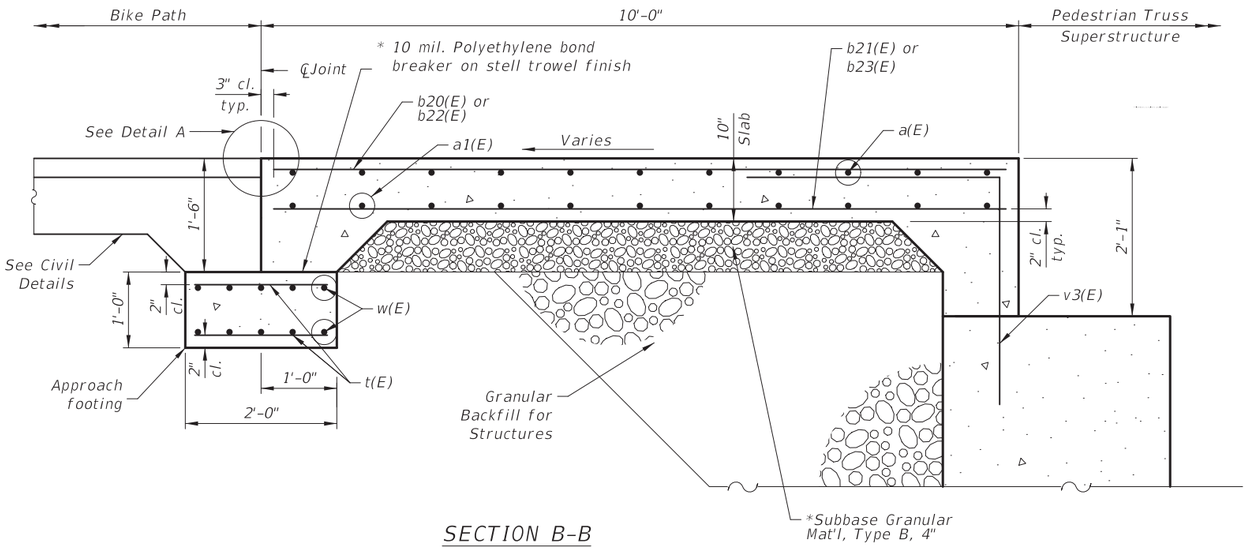
DETAIL A



b22(E) AND b23(E) BAR



d(E) BAR



SECTION B-B

* Included in the cost of Concrete Superstructure (Approach)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	22	#4	11'-8"	
a1(E)	22	#5	11'-8"	
b20(E)	17	#7	9'-8"	
b21(E)	19	#8	9'-8"	
b22(E)	17	#7	10'-0"	
b23(E)	19	#8	10'-0"	
d(E)	44	#4	3'-0"	
t(E)	52	#4	1'-8"	
w(E)	20	#5	11'-8"	
Structure Excavation		Cu. Yd.	4.6	
Concrete Structures		Cu. Yd.	1.8	
Concrete Superstructure (Approach)		Cu. Yd.	9.4	
Reinforcement Bars, Epoxy Coated		Pound	2520	

MODEL: Default
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ENGINEERING RESOURCE ASSOCIATES

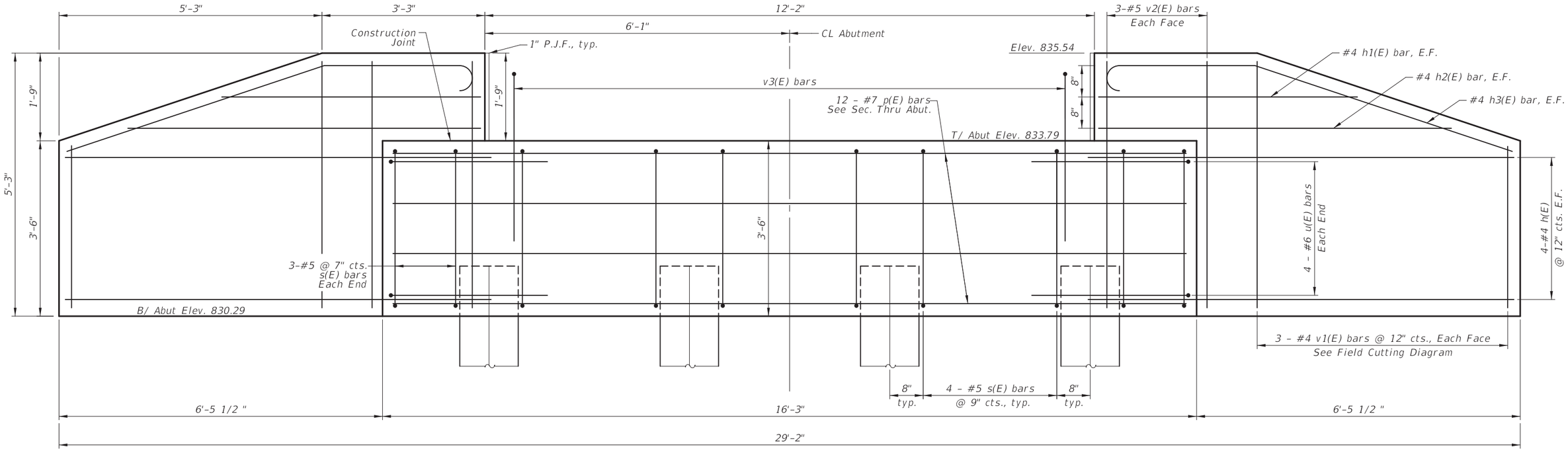
USER NAME = $USER$	DESIGNED C. SEDLACKO	REVISED -	_____
	DRAWN C. SEDLACKO	REVISED -	_____
PLOT SCALE = $SCALE$	CHECKED M. LANGE	REVISED -	_____
PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED -	_____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
PREFABRICATED STEEL BRIDGE: APPROACH SLAB DETAILS

SCALE: 1" = 1' | SHEET S4 OF S10 SHEETS | STA. _____ | TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	18-P4006-01-BT	DEKALB	58	42
		CONTRACT NO. 87730		
	ILLINOIS FED. AID PROJECT			



ELEVATION

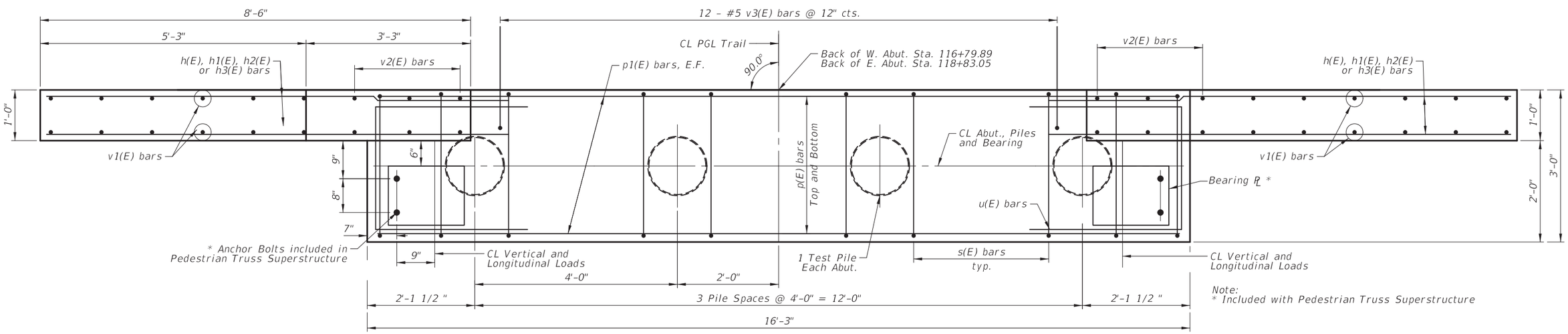
(Looking at F.F. of abutment & wingwalls)

PILE DATA - WEST ABUT.

Type: Metal Shell 14" ∅, 0.312" walls
Nominal Required Bearing: 313 kips
Factored Resistance Available: 127 kips
Est. Length: 49 ft
No. Production Piles: 3
No. Test Piles: 1

PILE DATA - EAST ABUT.

Type: Metal Shell 14" ∅, 0.312" walls
Nominal Required Bearing: 332 kips
Factored Resistance Available: 127 kips
Est. Length: 31 ft
No. Production Piles: 3
No. Test Piles: 1



Note:
* Included with Pedestrian Truss Superstructure

PLAN

(West Abutment shown: East Abutment is a mirror image)
(Showing anchor bolts and wingwall reinforcement)

MODEL: Default
FILE NAME: H:\Sycamore Park District\160910.00 Great Western Trail Extension\160910.P2 Phase II Engineering\CAD\Structural\SS Prefab. Stl Abutments.dgn

ENGINEERING RESOURCE ASSOCIATES

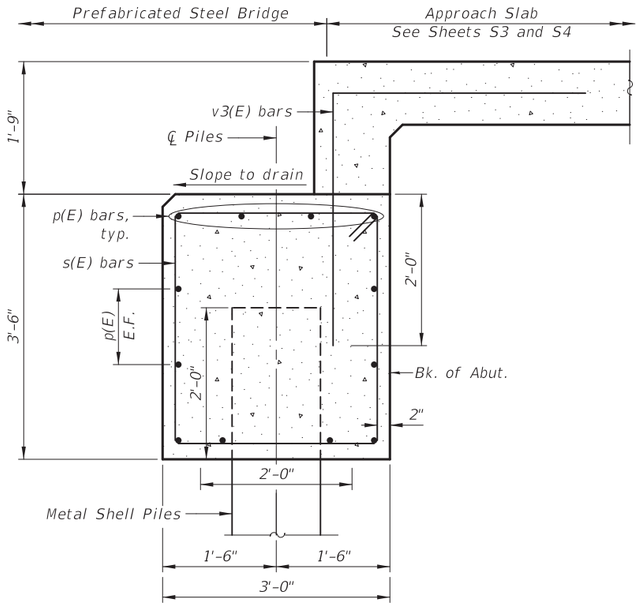
USER NAME = $USER$	DESIGNED C. SEDLACKO	REVISED - _____	
	DRAWN C. SEDLACKO	REVISED - _____	
PLOT SCALE = $SCALE$	CHECKED M. LANGE	REVISED - _____	
PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED - _____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

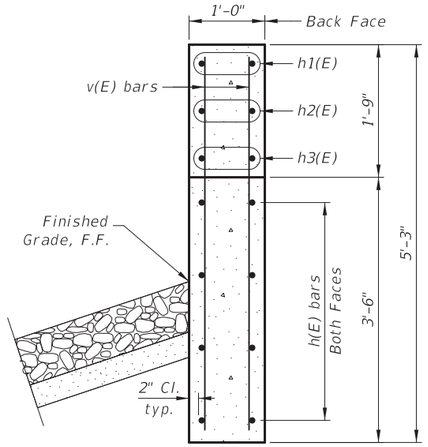
GREAT WESTERN TRAIL EXTENSION
PREFABRICATED STEEL BRIDGE: ABUTMENT PLAN

SCALE: 1" = 1' | SHEET S5 OF S10 SHEETS | STA. _____ | TO STA. _____

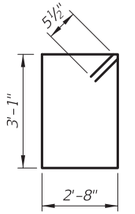
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	18-P4006-01-BT	DEKALB	58	43
		CONTRACT NO. 87730		
	ILLINOIS	FED. AID PROJECT		



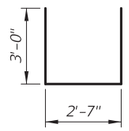
SEC. THRU ABUT.



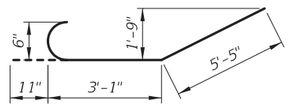
SEC. THRU WINGWALL



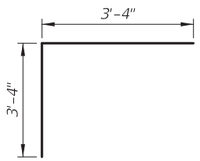
BAR s(E)



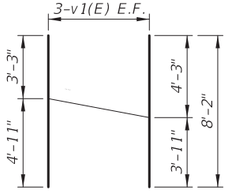
BAR u(E)



BAR h3(E)



BAR v3(E)



FIELD CUTTING DIAGRAM

TOTAL BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#4	8'-6"	——
h1(E)	8	#4	5'-2"	——
h2(E)	8	#4	7'-0"	——
h3(E)	8	#4	9'-5"	——
				——
p(E)	24	#7	15'-10"	——
				——
s(E)	36	#5	12'-5"	□
u(E)	16	#6	8'-7"	⊓
v1(E)	24	#4	8'-2"	——
v2(E)	24	#5	4'-11"	——
v3(E)	24	#5	6'-8"	⌐

ITEM	UNIT	QTY
Structure Excavation	Cu. Yd.	53.4
Concrete Structures	Cu. Yd.	16.0
Reinforcement Bars, Epoxy Coated	Pound	2170
Furnishing Piles	Foot	240
Driving Piles	Foot	240
Test Pile	Each	2

For details of piles see sheet S7 of S10.

MODEL: Default
FILE NAME: H:\Sycamore\ParkDistrict\160910.00 GreatWesternTrailExtension\160910.P2 Phase II Engineering\CAD\Structural\S6 Prefab Stl Abut Details.dgn

ENGINEERING RESOURCE ASSOCIATES

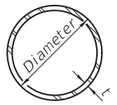
USER NAME = $USER$	DESIGNED C. SEDLACKO	REVISED - _____	
	DRAWN C. SEDLACKO	REVISED - _____	
PLOT SCALE = $SCALE$	CHECKED M. LANGE	REVISED - _____	
PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED - _____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
PREFABRICATED STEEL BRIDGE: ABUTMENT DETAILS

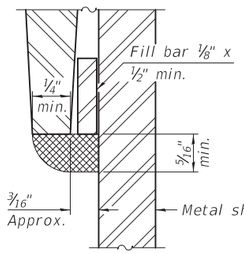
SCALE: 1" = 1' | SHEET S6 OF S10 SHEETS | STA. _____ | TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	18-P4006-01-BT	DEKALB	58	44
		CONTRACT NO. 87730		
	ILLINOIS	FED. AID PROJECT		

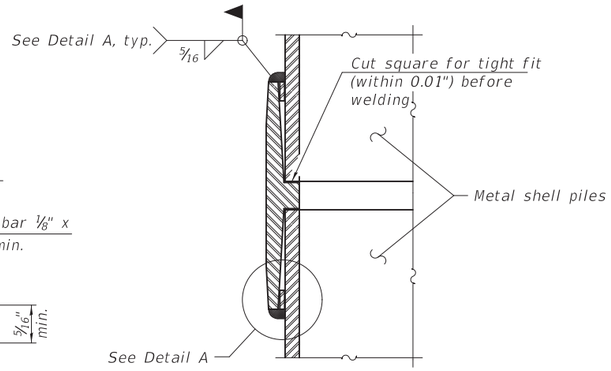


METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd.³/ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470

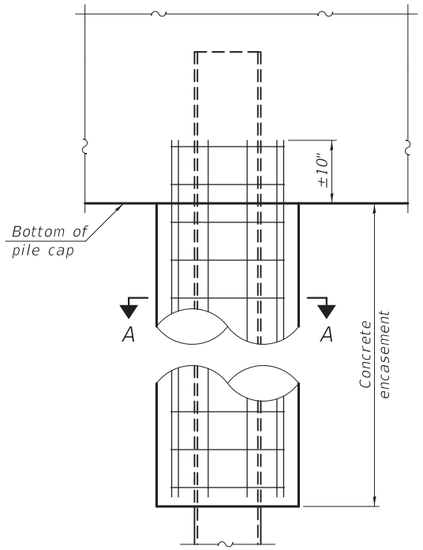


DETAIL A

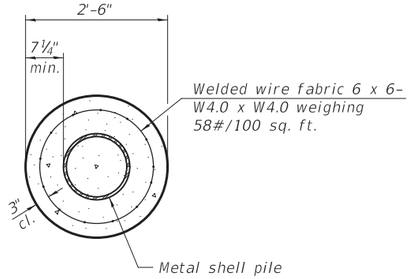


WELDED COMMERCIAL SPLICE

Notes:
The ⅛" x ½" min. fill bar may be constructed of 2 bars with a ⅛" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

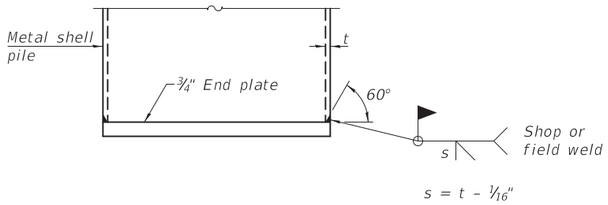


ELEVATION



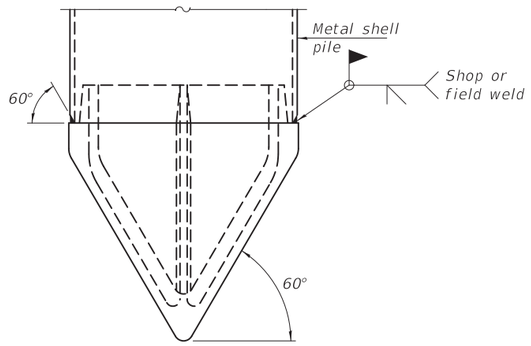
SECTION A–A

INDIVIDUAL PILE CONCRETE ENCASEMENT AT PIERS



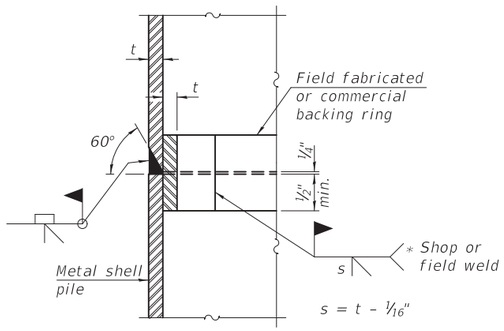
$s = t - \frac{1}{16}"$

END PLATE ATTACHMENT



PILE SHOE ATTACHMENT

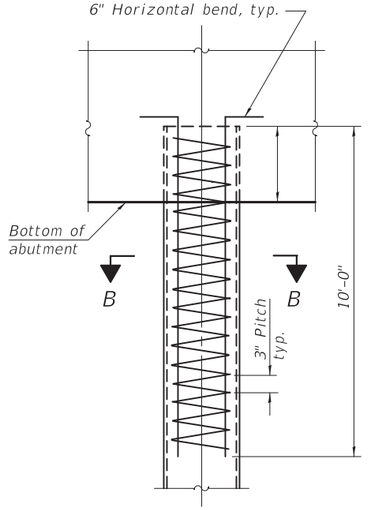
(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



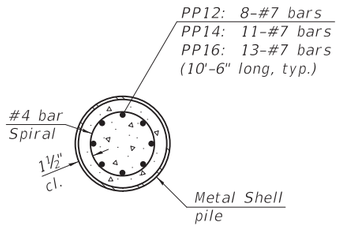
$s = t - \frac{1}{16}"$

COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B–B

REINFORCEMENT AT ABUTMENTS

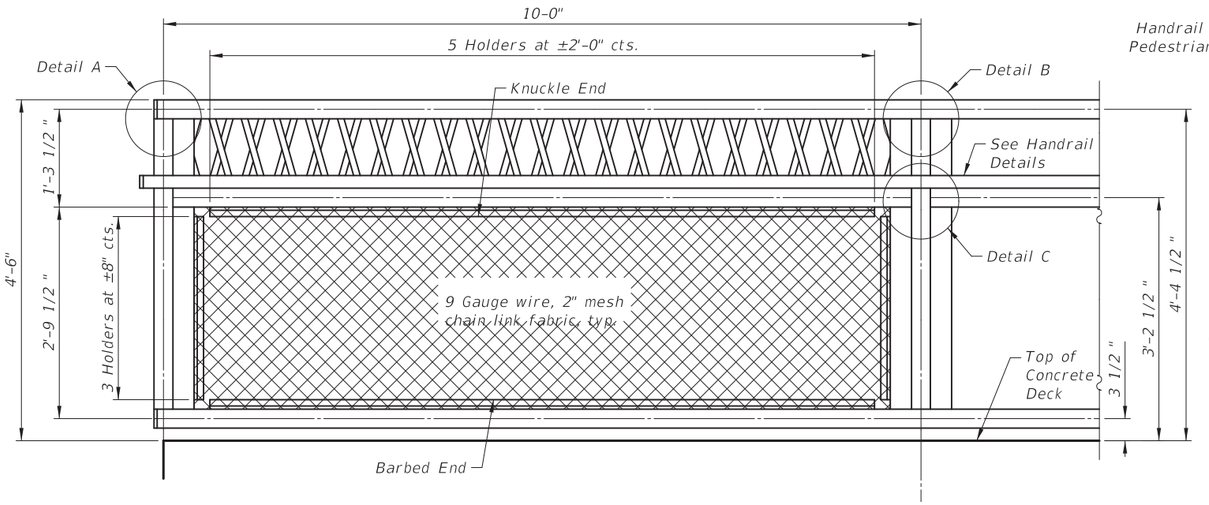
Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

F-MS 8-11-2017

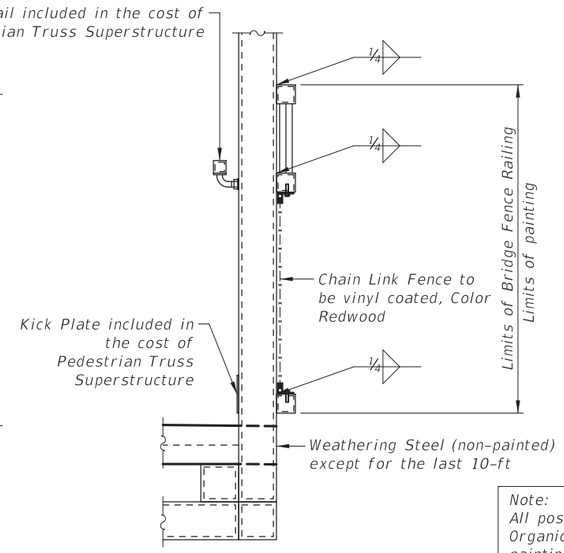
MODEL: Default
FILE NAME: H:\Sycamore Park Ditch\16091.00 Great Western Trail Extension\16091.00 P2 Phase II Engineering\CAD\Structural\S7 Prefab Stl Pile Details.dgn

ENGINEERING RESOURCE ASSOCIATES	USER NAME = $USER$	DESIGNED C. SEDLACKO	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GREAT WESTERN TRAIL EXTENSION PREFABRICATED STEEL BRIDGE: METAL SHELL PILE DETAILS
		DRAWN C. SEDLACKO	REVISED - _____		
	PLOT SCALE = $SCALE$	CHECKED M. LANGE	REVISED - _____		SCALE: 1" = 1' SHEET S7 OF S10 SHEETS STA. _____ TO STA. _____
	PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED - _____		

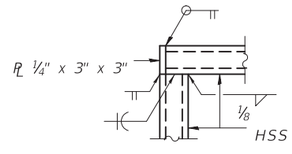
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	18-P4006-01-BT	DEKALB	58	45
		CONTRACT NO. 87730		
	ILLINOIS	FED. AID PROJECT		



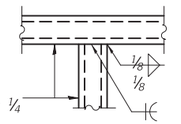
RAILING DETAIL



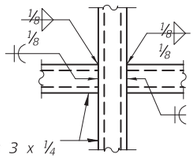
RAILING-TRUSS CONNECTION DETAIL



DETAIL A

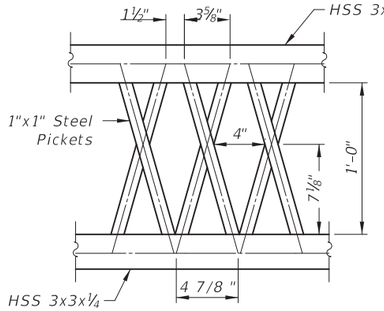


DETAIL B

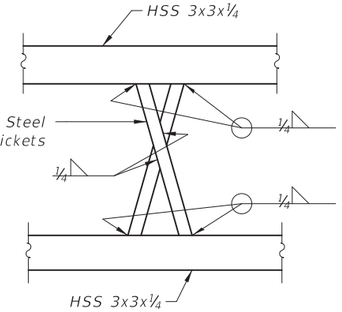


DETAIL C

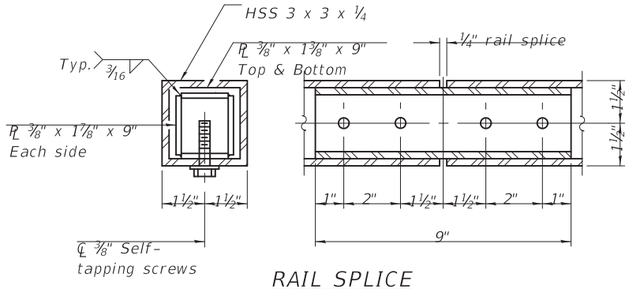
Note:
All post, railing, splices, anchor devices, and bent plates shall be painted. Organic Zinc Rich Primer/ Epoxy/ urethane Paint System shall be used for painting of new structural steel railing. The entire system shall be shop applied, with the exception of the masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the finish coat shall be Reddish Brown, Munsell No. 2.5YE ¾. The Bridge Fence Railing (Special) does not need to be galvanized nor does it need to be weathering steel.



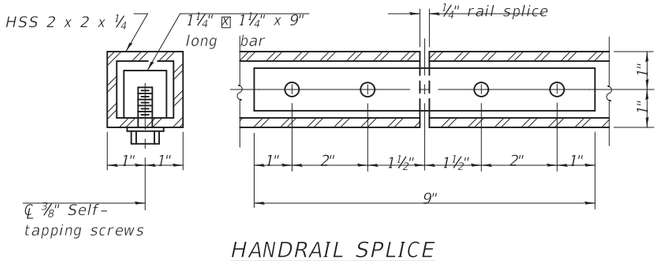
DETAIL D



DETAIL E

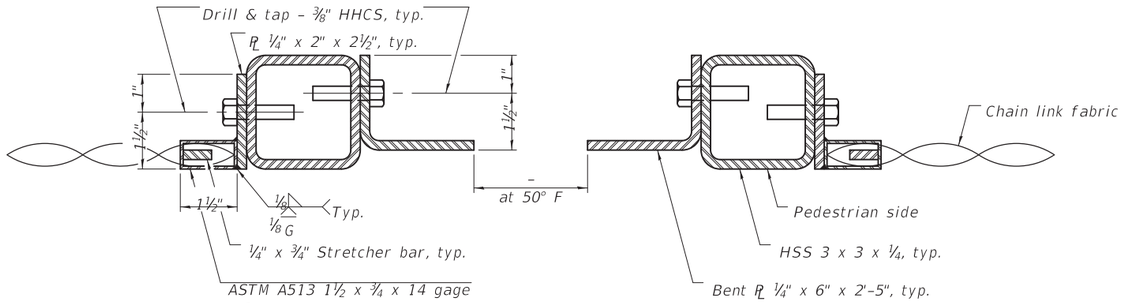


RAIL SPLICE

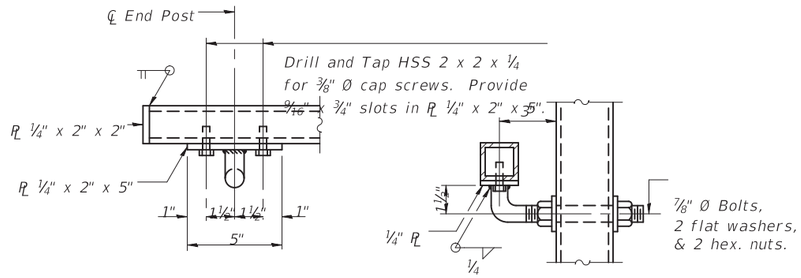


HANDRAIL SPLICE

Note: The top X pattern of the steel bridge rail may be cut out of ½" steel plate instead of 1"x1" steel pickets. However, the final product must match the aesthetics of the bridge. The 1" picket width must also be preserved. Additionally, the welds may need to be adjusted for that material.



WIRE CONNECTION DETAIL



HANDRAIL DETAIL

Note:
Handrail shall be attached to the inside face of the Prefabricated Truss.

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing, Special	Foot	400

ENGINEERING RESOURCE ASSOCIATES

USER NAME = $USER$	DESIGNED C. SEDLACKO	REVISED -	_____
	DRAWN C. SEDLACKO	REVISED -	_____
PLOT SCALE = $SCALE$	CHECKED M. LANGE	REVISED -	_____
PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED -	_____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
PREFABRICATED STEEL BRIDGE: RAILING DETAILS

SCALE: 1" = 1' | SHEET S8 OF S10 SHEETS | STA. _____ | TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	18-P4006-01-BT	DEKALB	58	46
		CONTRACT NO. 87730		
	ILLINOIS	FED. AID PROJECT		

MSET PROJECT NO.: 19282 | **LOG OF BORING NO. SB-5** | Page 1 of 3

PROJECT: Great Western Trail | SITE LOCATION: Sycamore, Illinois

BORING LOCATION: West Abutment, Structure #4 | CLIENT: Engineering Resourse Associates

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE TYPE/ INTERVAL	SAMPLE NO.	SAMPLE N-VALUE Blows per ft.	TESTS Wc%	TESTS Dry Unit Weight, pcf	TESTS Unconfined Compressive Strength, tsf	REMARKS
0		FILL: Black SAND, Cinders, A-1-a	832.0							
		FILL: Brown SAND and GRAVEL, A-1-a, slightly dense	831.0	SS	1A	11	2			
		fill: Brown, Grey, & Black Clay LOAM, A-6, hard	830.0		1B	12	17			
4		FILL: Black SAND and CINDERS, A-1-a, medium dense	828.5	SS	2	9	6			
		FILL: Brown Clay LOAM, A-6, stiff	826.5	SS	3A	6	19		1.25 Qp	
		Black CLAY, A-7-6	825.5		3B	8	33			
8		Dark Grey Sandy Clay LOAM, A-6, firm	824.0	SS	4	5	24	87	0.54	
		Grey LOAM, A-2-4, slightly dense	821.5	SS	5	5	9			
12		Grey Sandy LOAM, A-2-4 with intermittent clay seams, medium dense	819.0	SS	6	16	18			
				SS	7	7	20			
16		Grey SAND and GRAVEL, A-1-a, medium dense	815.0	SS	8	15	11			
				SS	9	13	16			
20		Brown SAND, A-3, medium dense	809.0	SS	10	11	13			
				SS	11	12	12			
24				SS	12	18	11			
28		Grey Clay LOAM, A-6,	802.0							

WATER LEVEL OBSERVATIONS, ft.
DURING DRILLING: ▽ 12.5'
IMMEDIATELY AFTER DRILLING: ▽ 12.0'
DELAYED READING AFTER ▽

MSET

BORING STARTED: 7/12/19
BORING COMPLETED: 7/12/19
LOGGED BY: GPF
BORING METHOD: HSA

Midland Standard Engineering & Testing, Inc. 410 Nolen Drive, South Elgin, Illinois 60177 (847) 844-1895 f(847) 844-3875

MSET PROJECT NO.: 19282 | **LOG OF BORING NO. SB-5** | Page 2 of 3

PROJECT: Great Western Trail | SITE LOCATION: Sycamore, Illinois

BORING LOCATION: West Abutment, Structure #4 | CLIENT: Engineering Resourse Associates

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE TYPE/ INTERVAL	SAMPLE NO.	SAMPLE N-VALUE Blows per ft.	TESTS Wc%	TESTS Dry Unit Weight, pcf	TESTS Unconfined Compressive Strength, tsf	REMARKS
32		Grey Clay LOAM, A-6 with intermittent silt seams, very stiff								
				SS	13	8	13		0.85	
36										
				SS	14	11	12		1.5 Qp	
40		Brown SAND, A-3, medium dense to dense	792.5							
				SS	15	9	16			
44										
				SS	16	16	14			
48										
				SS	17	28	11			
52										
				SS	18	39	12			
56										
60										

WATER LEVEL OBSERVATIONS, ft.
DURING DRILLING: ▽ 12.5'
IMMEDIATELY AFTER DRILLING: ▽ 12.0'
DELAYED READING AFTER ▽

MSET

BORING STARTED: 7/12/19
BORING COMPLETED: 7/12/19
LOGGED BY: GPF
BORING METHOD: HSA

Midland Standard Engineering & Testing, Inc. 410 Nolen Drive, South Elgin, Illinois 60177 (847) 844-1895 f(847) 844-3875

MSET PROJECT NO.: 19282 | **LOG OF BORING NO. SB-5** | Page 2 of 3

PROJECT: Great Western Trail | SITE LOCATION: Sycamore, Illinois

BORING LOCATION: West Abutment, Structure #4 | CLIENT: Engineering Resourse Associates

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE TYPE/ INTERVAL	SAMPLE NO.	SAMPLE N-VALUE Blows per ft.	TESTS Wc%	TESTS Dry Unit Weight, pcf	TESTS Unconfined Compressive Strength, tsf	REMARKS
32		Grey Clay LOAM, A-6 with intermittent silt seams, very stiff								
				SS	13	8	13		0.85	
36										
				SS	14	11	12		1.5 Qp	
40		Brown SAND, A-3, medium dense to dense	792.5							
				SS	15	9	16			
44										
				SS	16	16	14			
48										
				SS	17	28	11			
52										
				SS	18	39	12			
56										
60										

WATER LEVEL OBSERVATIONS, ft.
DURING DRILLING: ▽ 12.5'
IMMEDIATELY AFTER DRILLING: ▽ 12.0'
DELAYED READING AFTER ▽

MSET

BORING STARTED: 7/12/19
BORING COMPLETED: 7/12/19
LOGGED BY: GPF
BORING METHOD: HSA

Midland Standard Engineering & Testing, Inc. 410 Nolen Drive, South Elgin, Illinois 60177 (847) 844-1895 f(847) 844-3875

MODEL: Default
FILE NAME: H:\Sycamore\ParkDistrict\16091\0.00 GreatWesternTrailExtension\16091\0.P2 Phase II Engineering\CAD\Structural\S9 Prefab SH Borings.dgn

ENGINEERING RESOURCE ASSOCIATES

USER NAME = $USER$	DESIGNED C. SEDLACKO	REVISED -	_____
	DRAWN C. SEDLACKO	REVISED -	_____
PLOT SCALE = $SCALE$	CHECKED M. LANGE	REVISED -	_____
PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED -	_____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
PREFABRICATED STEEL BRIDGE: SOIL BORING LOGS

SCALE: N.T.S. | SHEET S9 OF S10 SHEETS | STA. _____ | TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	18-P4006-01-BT	DEKALB	58	47
		CONTRACT NO. 87730		
	ILLINOIS	FED. AID PROJECT		

MSET PROJECT NO.: 19282 | **LOG OF BORING NO. SB-6** | Page 1 of 3

PROJECT: Great Western Trail | SITE LOCATION: Sycamore, Illinois

BORING LOCATION: East Abutment, Structure 4 | CLIENT: Engineering Resource Associates

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE TYPE/INTERVAL	SAMPLE NO.	SAMPLE N-VALUE Blows per ft.	TESTS Wc%	TESTS Dry Unit Weight, pcf	TESTS Unconfined Compressive Strength, tsf	REMARKS
0		Fill: Black, Grey, & Brown Sandy CLAY, A-6, stiff	834.5	SS	1	9	12	108	1.51	
4		Concrete Debris at 4.0	830.5	SS	2	50/4"				Concrete Debris No Recovery
		Auger Refusal, Offset Borehole 5 feet		SS	3	4	14		1.5 Qp	
8		FILL: Black SAND, Cinders, Slag, A-1-a, slightly dense	826.0	SS	4	4	17			
		Dark Grey Clay LOAM, A-6, trace fibers, soft, moist	824.0	SS	5	2	32		0.25 Qp	
12		Brown SAND and GRAVEL, A-1-a, medium dense	821.5	SS	6	18	7			
16		Grey Clay LOAM, A-6 with intermittent sand seams, very stiff	819.0	SS	7	13	18		2.5 Qp	
		Brown SAND and GRAVEL, A-1-a, medium dense	816.5	SS	8	21	11			
20				SS	9	23	15			
24		Possible Cobble at 24.5'	810.0	SS	10	68/10"	12			
				SS	11	33	15			
28		Grey Clay LOAM, A-6 with intermittant sand seams, very stiff	805.5	SS	12A	12	18			
					12B	18	12		3.25 Qp	

WATER LEVEL OBSERVATIONS, ft.
DURING DRILLING: 13.0'
IMMEDIATELY AFTER DRILLING: 11.5'
DELAYED READING AFTER

MSET

BORING STARTED: 7/11/19
BORING COMPLETED: 7/11/19
LOGGED BY: GPF
BORING METHOD: HSA

Midland Standard Engineering & Testing, Inc. 410 Nolen Drive, South Elgin, Illinois 60177 (847) 844-1895 f(847) 844-3875

MSET PROJECT NO.: 19282 | **LOG OF BORING NO. SB-6** | Page 2 of 3

PROJECT: Great Western Trail | SITE LOCATION: Sycamore, Illinois

BORING LOCATION: East Abutment, Structure 4 | CLIENT: Engineering Resource Associates

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE TYPE/INTERVAL	SAMPLE NO.	SAMPLE N-VALUE Blows per ft.	TESTS Wc%	TESTS Dry Unit Weight, pcf	TESTS Unconfined Compressive Strength, tsf	REMARKS
32		Brown SAND, A-3 medium dense intermittent sand seams to 42 feet	803.0	SS	13	10	21			
36				SS	14	27	20			
40				SS	15	15	15			
44				SS	16	24	13			
48				SS	17	27	12			
52				SS	18	38	16			
56		to fine sand, dense	777.5							
60										

WATER LEVEL OBSERVATIONS, ft.
DURING DRILLING: 13.0'
IMMEDIATELY AFTER DRILLING: 11.5'
DELAYED READING AFTER

MSET

BORING STARTED: 7/11/19
BORING COMPLETED: 7/11/19
LOGGED BY: GPF
BORING METHOD: HSA

Midland Standard Engineering & Testing, Inc. 410 Nolen Drive, South Elgin, Illinois 60177 (847) 844-1895 f(847) 844-3875

MSET PROJECT NO.: 19282 | **LOG OF BORING NO. SB-6** | Page 3 of 3

PROJECT: Great Western Trail | SITE LOCATION: Sycamore, Illinois

BORING LOCATION: East Abutment, Structure 4 | CLIENT: Engineering Resource Associates

DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE TYPE/INTERVAL	SAMPLE NO.	SAMPLE N-VALUE Blows per ft.	TESTS Wc%	TESTS Dry Unit Weight, pcf	TESTS Unconfined Compressive Strength, tsf	REMARKS
64		Brown SAND, A-3, dense with intermittent sand seams Brown SAND, A-3, dense	772.5	SS	19	47	14			
68		Brown to Brown & Grey Sandy LOAM, A-2-4, dense to medium dense	768.0	SS	20	48	20			
72				SS	21	21	16			
		End of Boring to 75 Feet	759.5							

WATER LEVEL OBSERVATIONS, ft.
DURING DRILLING: 13.0'
IMMEDIATELY AFTER DRILLING: 11.5'
DELAYED READING AFTER

MSET

BORING STARTED: 7/11/19
BORING COMPLETED: 7/11/19
LOGGED BY: GPF
BORING METHOD: HSA

Midland Standard Engineering & Testing, Inc. 410 Nolen Drive, South Elgin, Illinois 60177 (847) 844-1895 f(847) 844-3875

ENGINEERING RESOURCE ASSOCIATES

USER NAME = $USERS	DESIGNED C. SEDLACKO	REVISED -	
	DRAWN C. SEDLACKO	REVISED -	
PLOT SCALE = $SCALES	CHECKED M. LANGE	REVISED -	
PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
PREFABRICATED STEEL BRIDGE: SOIL BORING LOGS

SCALE: N.T.S. | SHEET S10 OF S10 SHEETS | STA. _____ | TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
__	18-P4006-01-BT	DEKALB	58	48
		CONTRACT NO. 87730		
	ILLINOIS	FED. AID PROJECT		

Benchmark: See Civil Plans

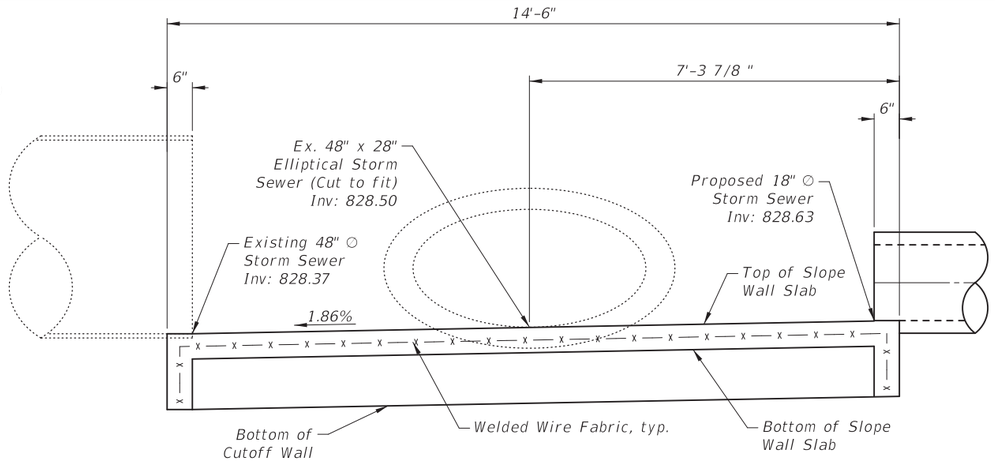
Existing Structures: 48" ∅ Storm Sewer (E)
48" x 28" Elliptical Storm Sewer (SW)
18" ∅ Storm Sewer (W)

Salvage: Connect new RCP to existing storm sewers where noted.

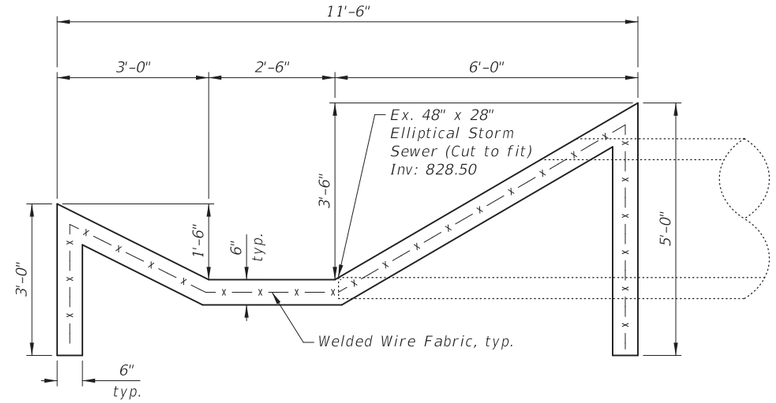
INDEX OF SHEETS

GENERAL NOTES

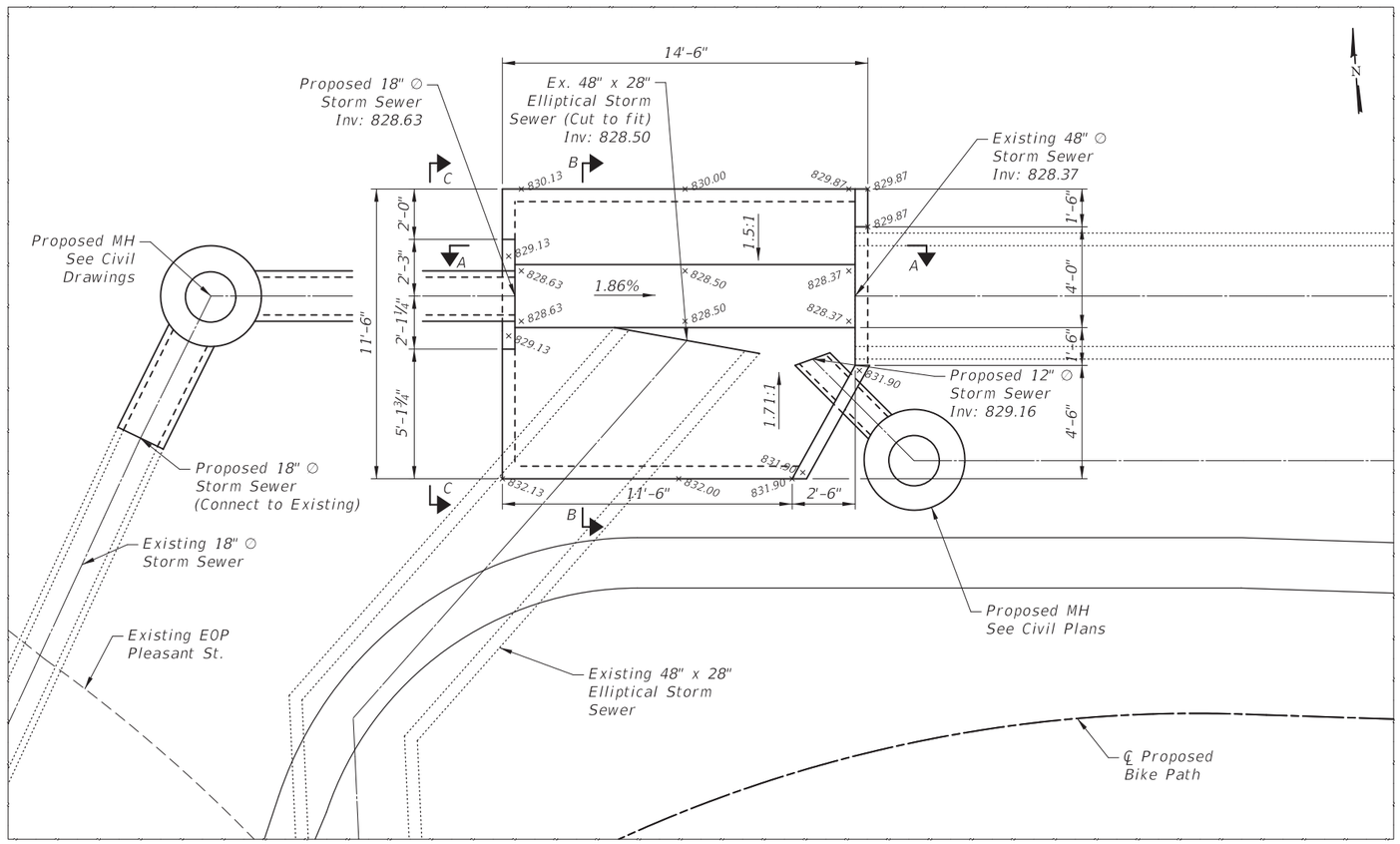
1. Cut existing storm sewers to fit.
2. Oversized holes for storm sewer pipes shall be grouted with mortar and sealed.
3. Welded Wire Fabric (W.W.F.) to be installed in all concrete slope walls, head walls and cutoff walls, per Section 511 of the Standard Specifications.



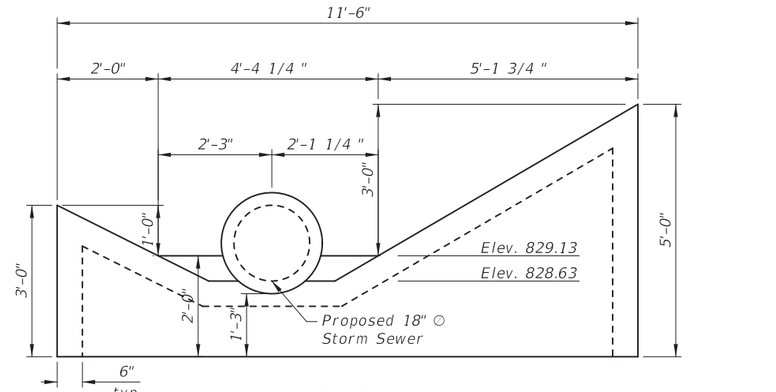
SECTION A-A



SECTION B-B



PLAN



SECTION C-C

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

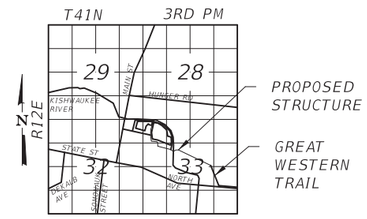
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 65,000 psi (W.W.F.)

BILL OF MATERIAL

PAY ITEM	UNIT	QTY
Concrete Slope Wall, 6 Inch	Sq. Yd.	21



LOCATION SKETCH

GENERAL PLAN & ELEVATION
GREAT WESTERN TRAIL
DEKALB COUNTY
STA 100+22.79

ENGINEERING RESOURCE ASSOCIATES

USER NAME = $USER$	DESIGNED C. SEDLACKO	REVISED -	_____
	DRAWN C. SEDLACKO	REVISED -	_____
PLOT SCALE = $SCALE$	CHECKED M. LANGE	REVISED -	_____
PLOT DATE = 3/13/2020	DATE 11-18-2019	REVISED -	_____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
CONCRETE SLOPE WALL PLAN AND DETAILS

SCALE: 1" = 3' | SHEET J1 OF J1 SHEETS | STA. _____ | TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	18-P4006-01-BT	DEKALB	58	49
		CONTRACT NO. 87730		
	ILLINOIS	FED. AID PROJECT		

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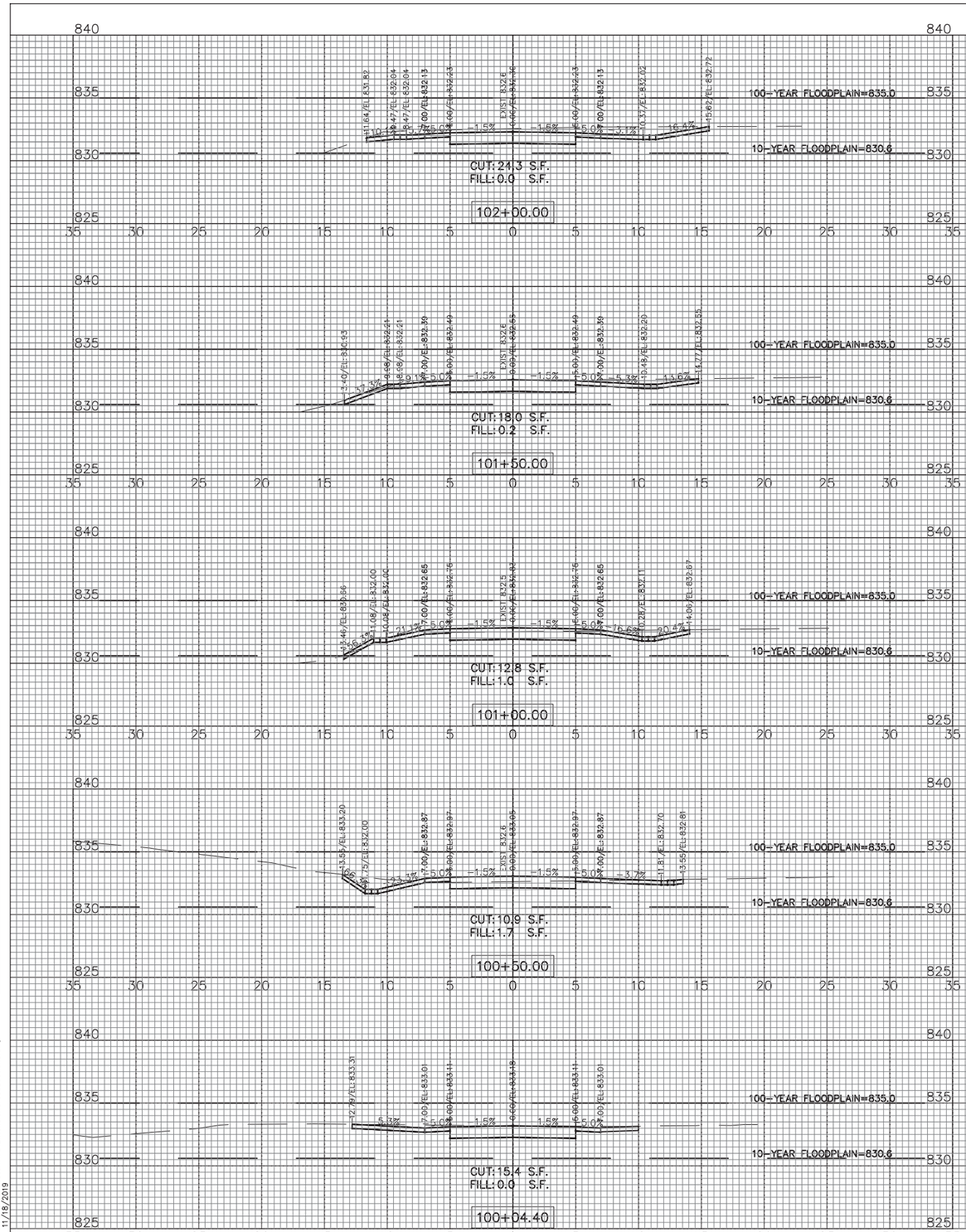
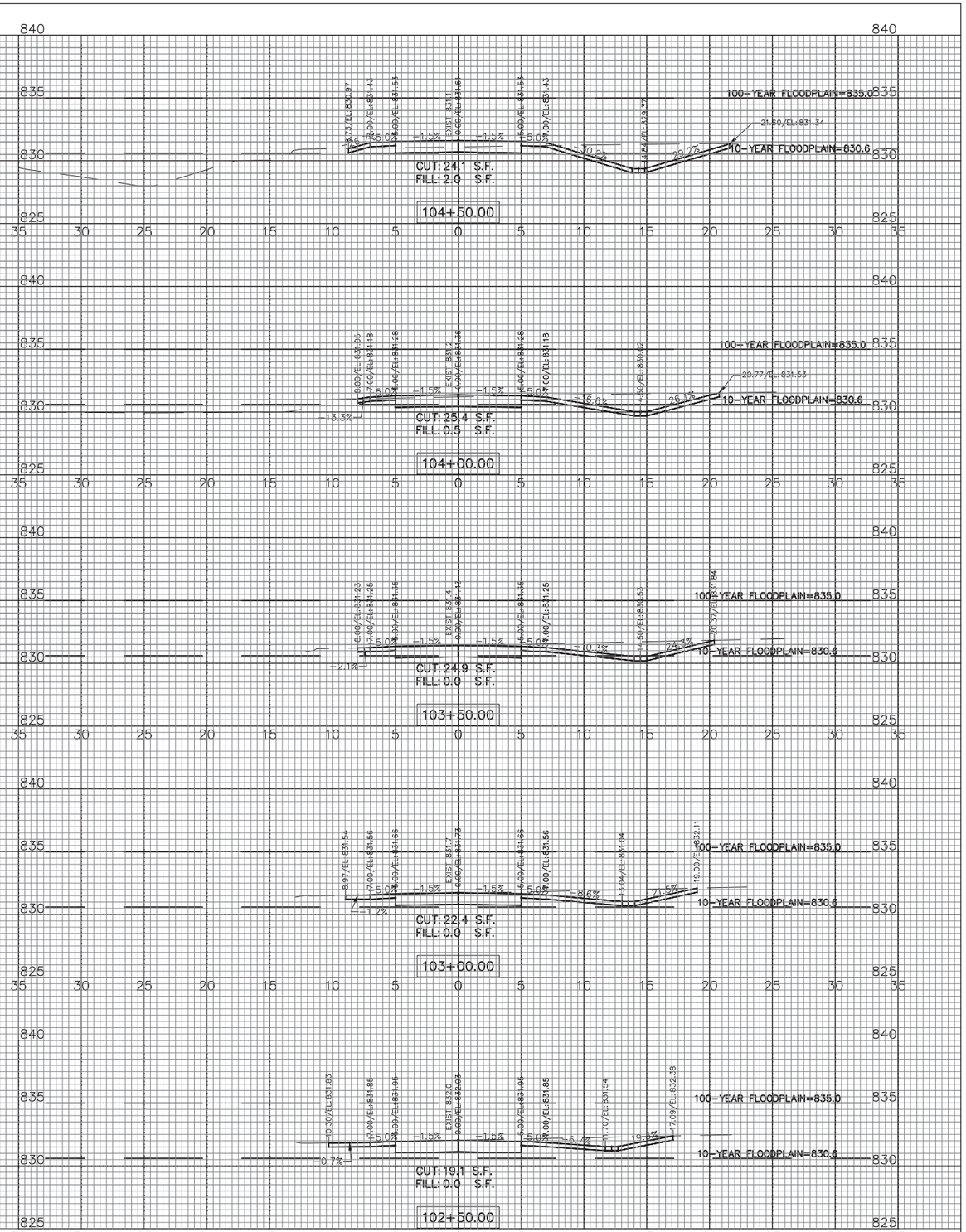




FINAL SURVEY — SURVEYED / PLOTTED / ITEMS / NOTE BOOK / NO. / AREAS / AREAS CHECKED — BY / DATE

ORIGINAL SURVEY — SURVEYED / PLOTTED / ITEMS / NOTE BOOK / NO. / AREAS / AREAS CHECKED — BY / DATE

\\enrfs01\N_drive\Sycamore\PreDistrict\160910.00 Great Western Trail Extension\Phase II\160910.P2 Plan Files\ Engineering\CAD\160910.P2 GreatWesternTrailExtensionCrossSections.dwg
Updated by: azielinski 11/18/2019

ENGINEERING RESOURCE ASSOCIATES, INC.
CONSULTING ENGINEERS, SCIENTISTS & SURVEYORS

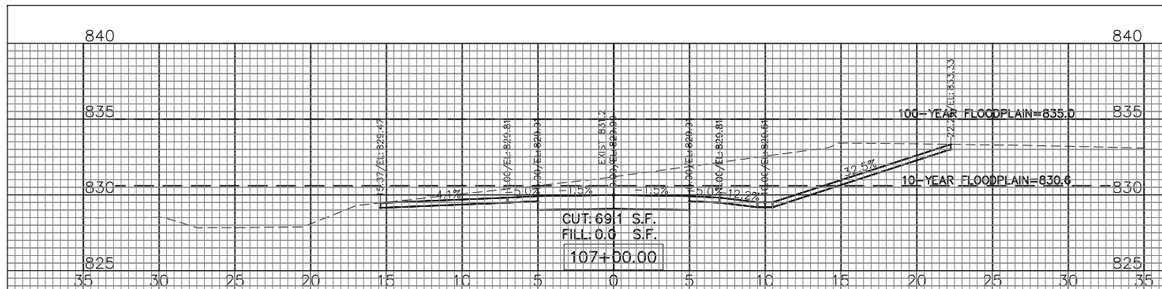
USER NAME = azielinski	DESIGNED — AK	REVISED — ___
	DRAWN — RT	REVISED — ___
PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___
PLOT DATE = 11/18/2019	DATE — July, 2019	REVISED — ___

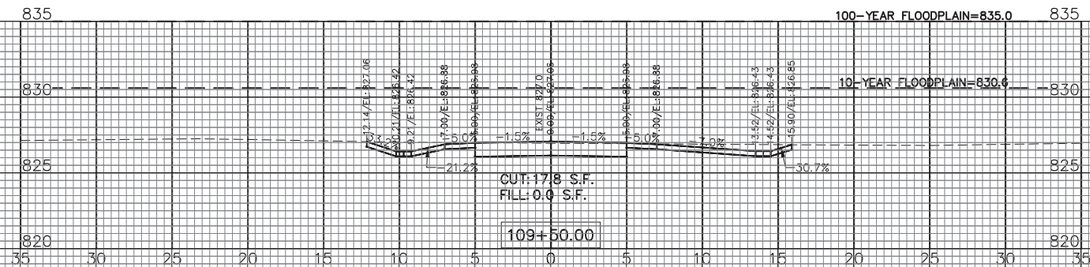
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

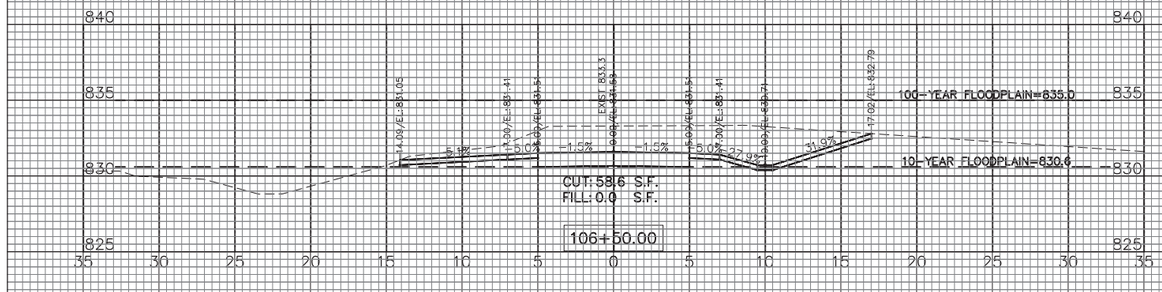
GREAT WESTERN TRAIL EXTENSION
CROSS SECTIONS

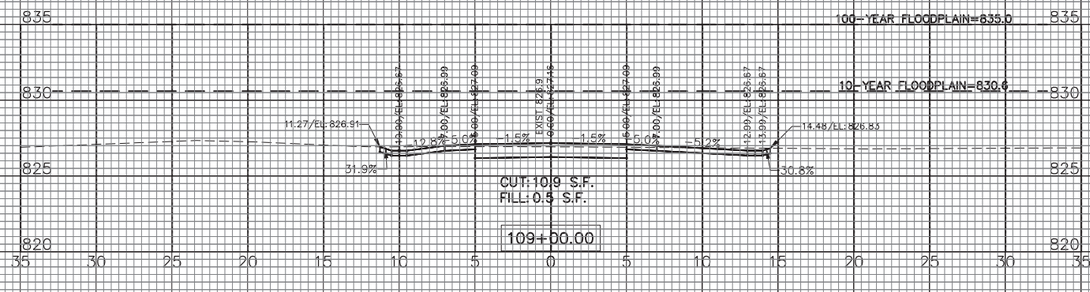
SCALE: 1"=10'H;1"=5'V | SHEET NO. 1 OF 9 SHEETS | STA. 100+00 TO STA. 104+50

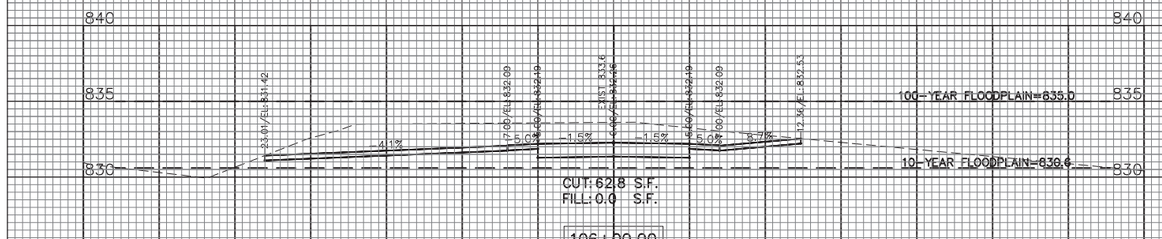
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	DEKALB	58	50
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT _		

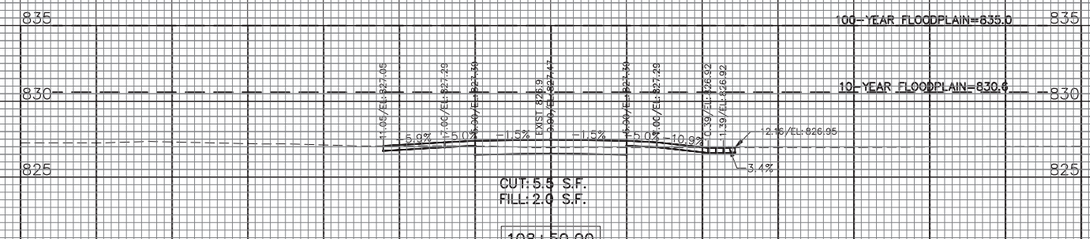


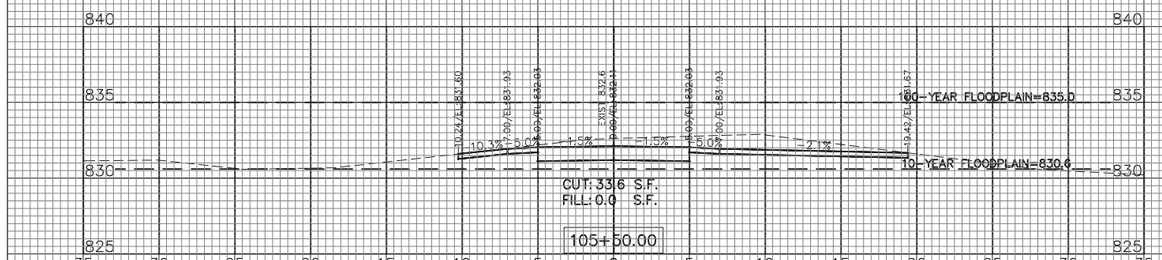


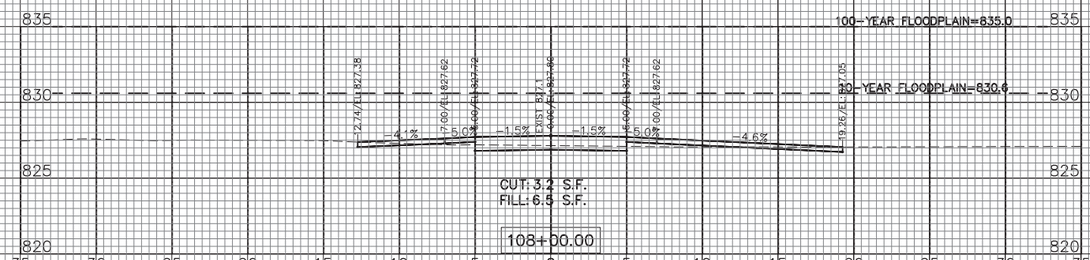


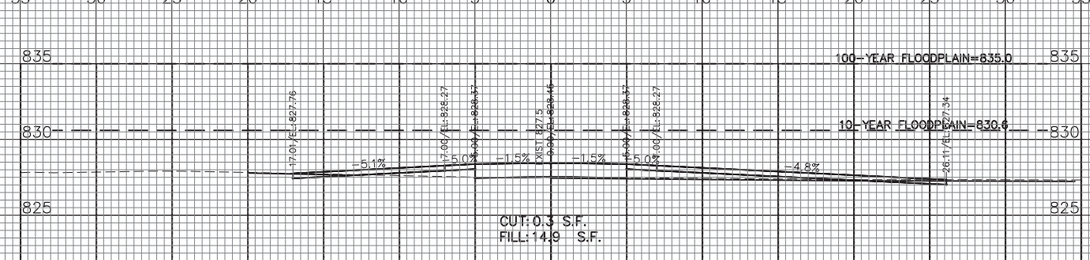












FINAL SURVEY — SURVEYED | PLOTTED | DRAWN | NOTE BOOK | AREAS | AREAS CHECKED | NO. | BY | DATE

ORIGINAL SURVEY — SURVEYED | PLOTTED | DRAWN | NOTE BOOK | AREAS | AREAS CHECKED | NO. | BY | DATE

\\enrfs01\N_drive\Syscomcore\ProjDistrict1\160910.00 General\Work\Roadway\160910.P2 Plan Sheets\ Engineering\CAD\160910.P2 GreatWesternTrailExtensionCrossSections.dwg Updated by: azielinski 11/18/2019

ENGINEERING RESOURCE ASSOCIATES, INC.
CONSULTING ENGINEERS, SCIENTISTS & SURVEYORS

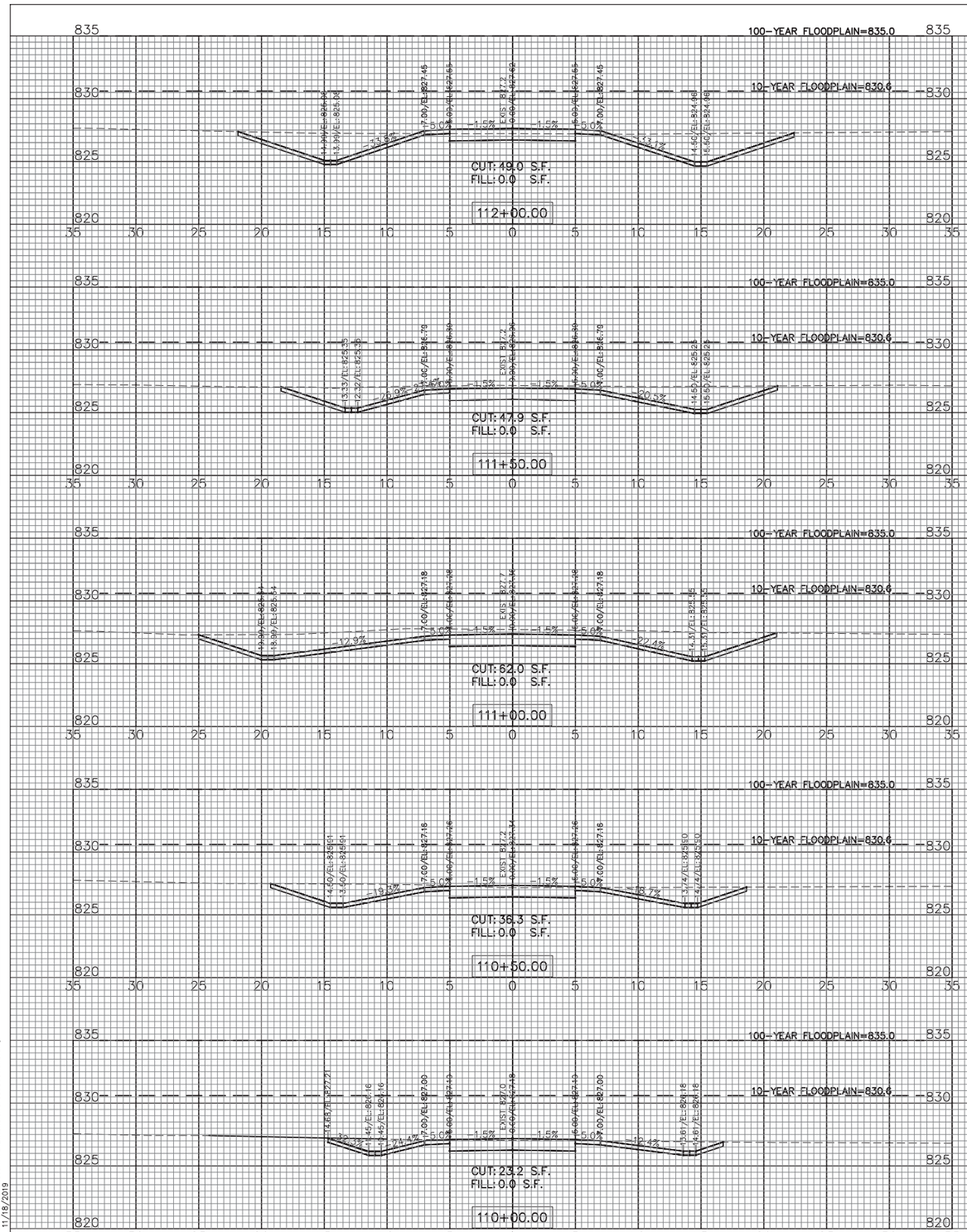
USER NAME = azielinski	DESIGNED — AK	REVISED — ___
	DRAWN — RT	REVISED — ___
PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___
PLOT DATE = 11/18/2019	DATE — July, 2019	REVISED — ___

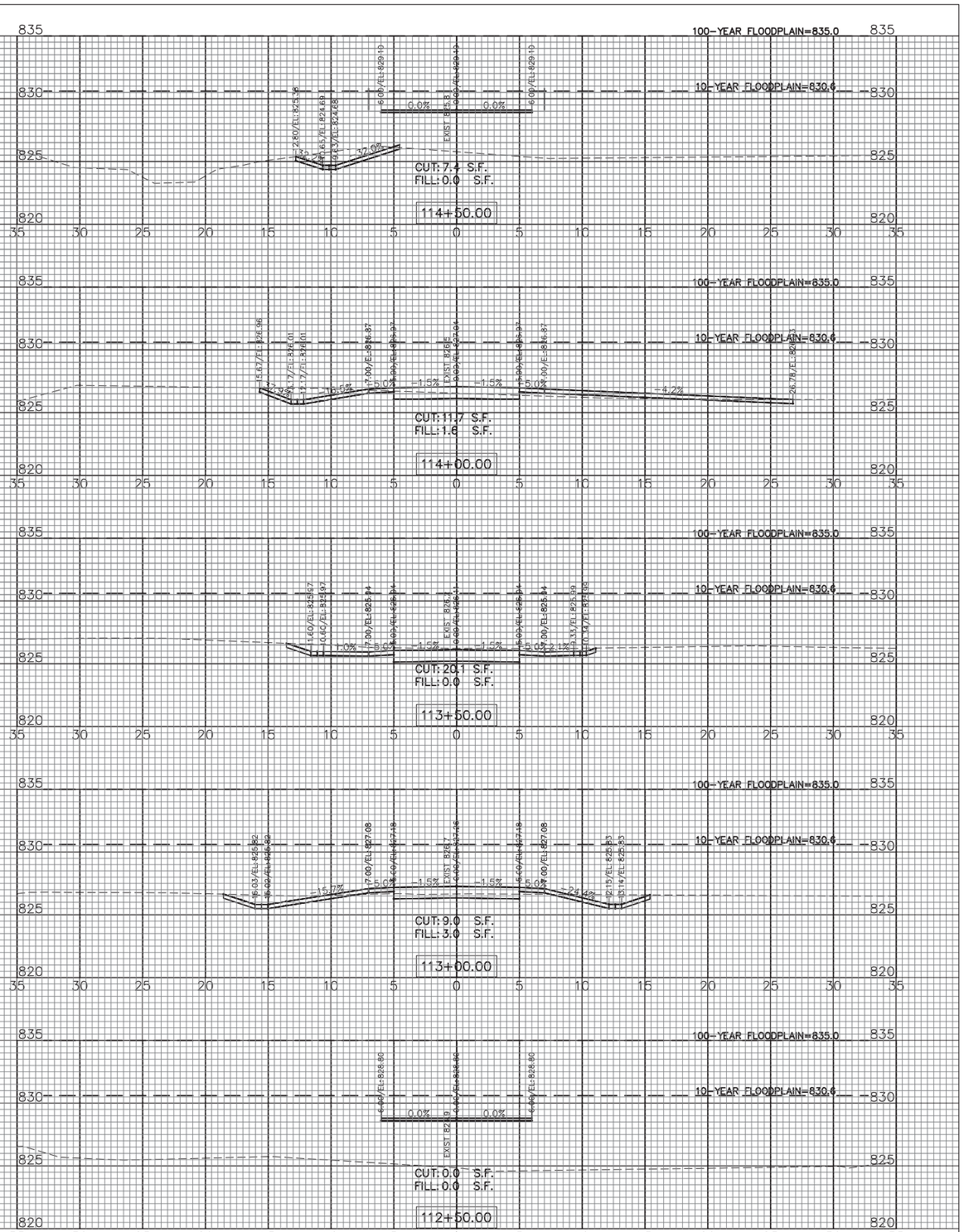
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
CROSS SECTIONS

SCALE: 1"=10'H;1"=5'V | SHEET NO. 2 OF 9 SHEETS | STA. 105+00 TO STA. 109+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	DEKALB	58	51
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT _		





FINAL SURVEY — SURVEYED; PLOTTED; ITEMS ADDED; NOTE BOOK; AREAS; NO.; AREAS CHECKED; BY; DATE

ORIGINAL SURVEY — SURVEYED; PLOTTED; ITEMS ADDED; NOTE BOOK; AREAS; NO.; AREAS CHECKED; BY; DATE

\\enrfs1\N_drive\Sycamore\PwDistrict\160910.00 Great Western Trail Extension\160910.P2 Phase II Engineering\CAD\160910.P2 GreatWesternTrailExtensionCrossSections.dwg
Updated by: azielinski 11/18/2019

ENGINEERING RESOURCE ASSOCIATES, INC.
CONSULTING ENGINEERS, SCIENTISTS & SURVEYORS

USER NAME = azielinski	DESIGNED — AK	REVISED — ___
	DRAWN — RT	REVISED — ___
PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___
PLOT DATE = 11/18/2019	DATE — July, 2019	REVISED — ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
CROSS SECTIONS

SCALE: 1"=10'H;1"=5'V | SHEET NO. 3 OF 9 SHEETS | STA. 110+00 TO STA. 114+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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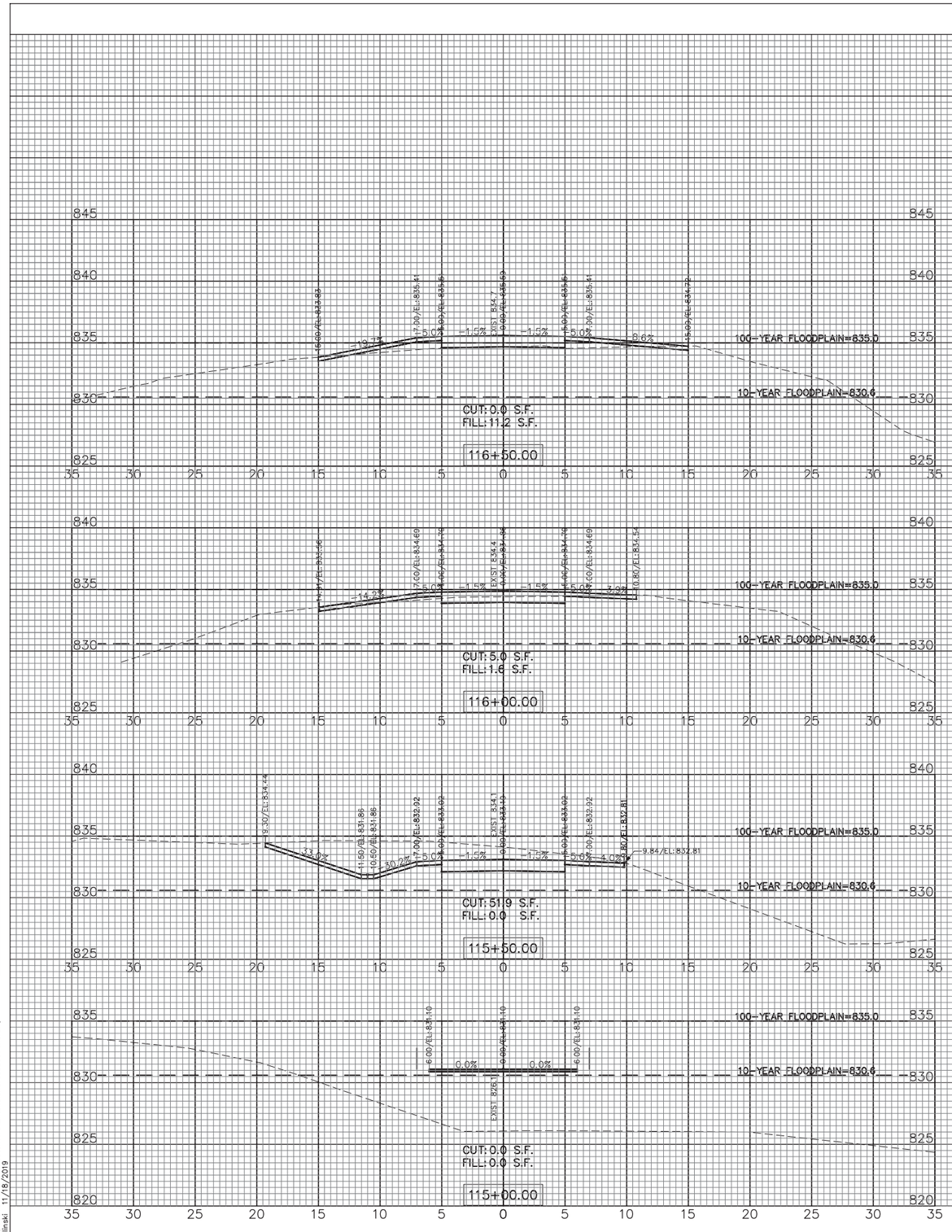
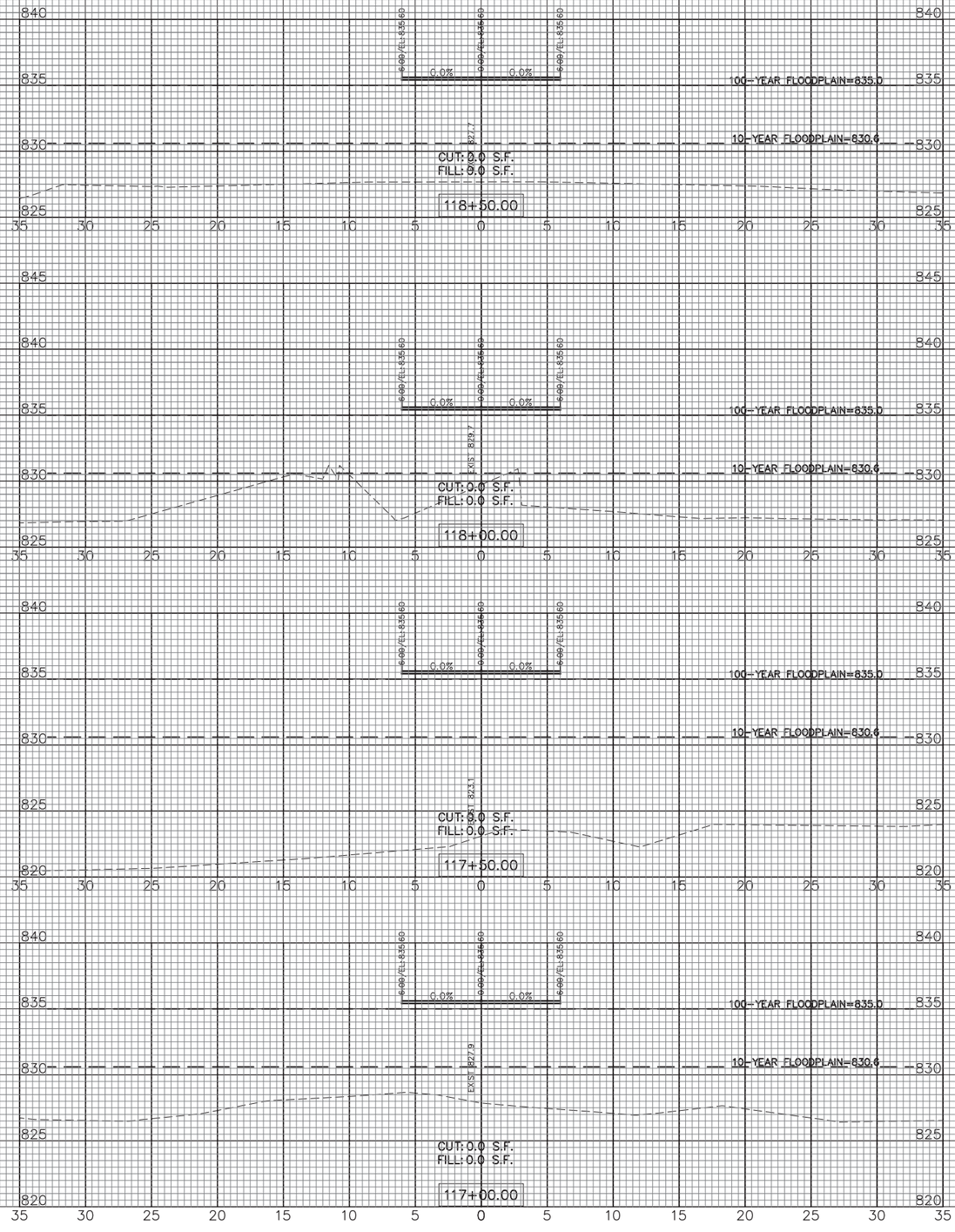
		CONTRACT NO. 87730		

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





FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — DRAWN — TRACED — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — DRAWN — TRACED — AREAS — AREAS CHECKED — BY — DATE

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Updated by: azielinski 11/18/2019

ENGINEERING RESOURCE ASSOCIATES, INC.
CONSULTING ENGINEERS, SCIENTISTS & SURVEYORS

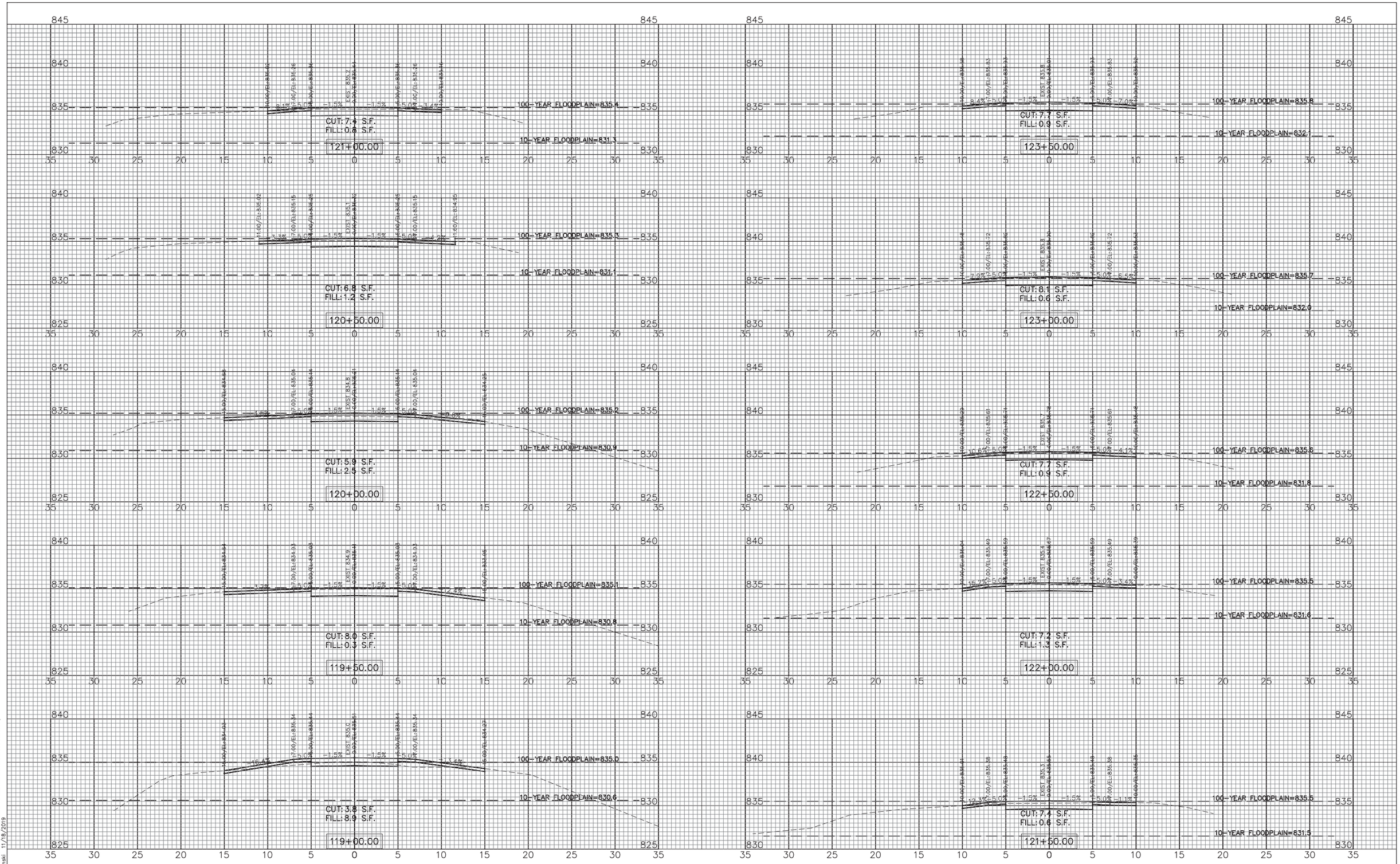
USER NAME = azielinski	DESIGNED — AK	REVISED — ___
	DRAWN — RT	REVISED — ___
PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___
PLOT DATE = 11/18/2019	DATE — July, 2019	REVISED — ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
CROSS SECTIONS

SCALE: 1"=10'H; 1"=5'V | SHEET NO. 4 OF 9 SHEETS | STA. 115+00 TO STA. 118+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	DEKALB	58	53
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT _		



FINAL SURVEY — NOTE BOOK ____ NO. ____ — SURVEYED ____ PLOTTED ____ DRAWN ____ AREAS ____ AREAS CHECKED ____ — BY ____ DATE ____

ORIGINAL SURVEY — NOTE BOOK ____ NO. ____ — SURVEYED ____ PLOTTED ____ DRAWN ____ AREAS ____ AREAS CHECKED ____ — BY ____ DATE ____

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Great Western Trail Extension\160910.P2 Physical
Engineering\CAD\160910.P2 GreatWesternTrailExtensionCrossSections.dwg
Updated by: azielinski 11/18/2019

ENGINEERING RESOURCE ASSOCIATES, INC.
CONSULTING ENGINEERS, SCIENTISTS & SURVEYORS

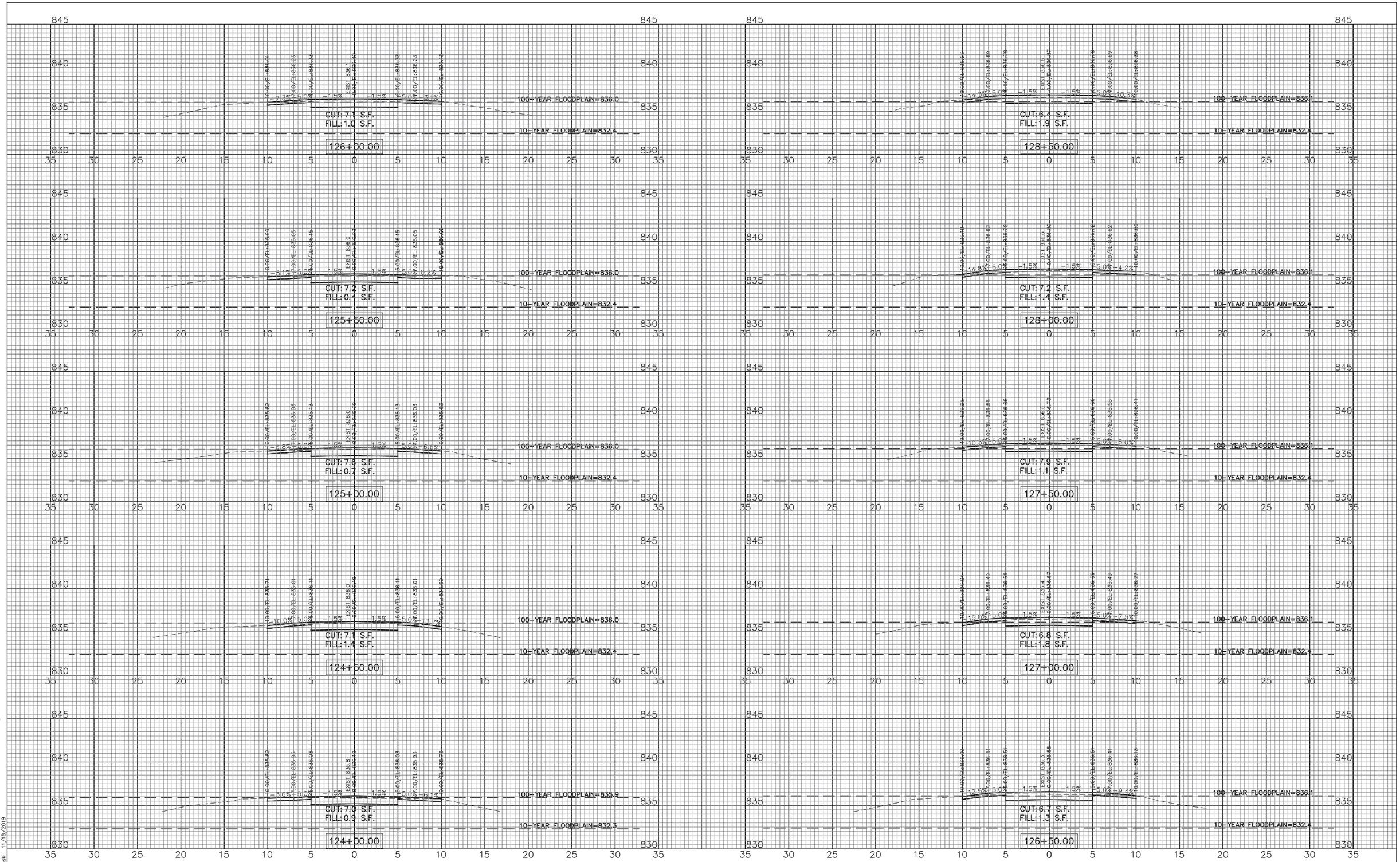
USER NAME = azielinski	DESIGNED — AK	REVISED — ____
	DRAWN — RT	REVISED — ____
PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ____
PLOT DATE = 11/18/2019	DATE — June, 2019	REVISED — ____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
CROSS SECTIONS

SCALE: 1"=10'H; 1"=5'V | SHEET NO. 5 OF 9 SHEETS | STA. 118+50 TO STA. 122+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	DEKALB	58	54
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT _		



FINAL SURVEY — NOTE BOOK — NO. ____ — SURVEYED — PLOTTED — DRAWN — TRACED — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK — NO. ____ — SURVEYED — PLOTTED — DRAWN — TRACED — AREAS — AREAS CHECKED — BY — DATE

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Updated by: azielinski 11/18/2019

ENGINEERING RESOURCE ASSOCIATES, INC.
CONSULTING ENGINEERS, SCIENTISTS & SURVEYORS

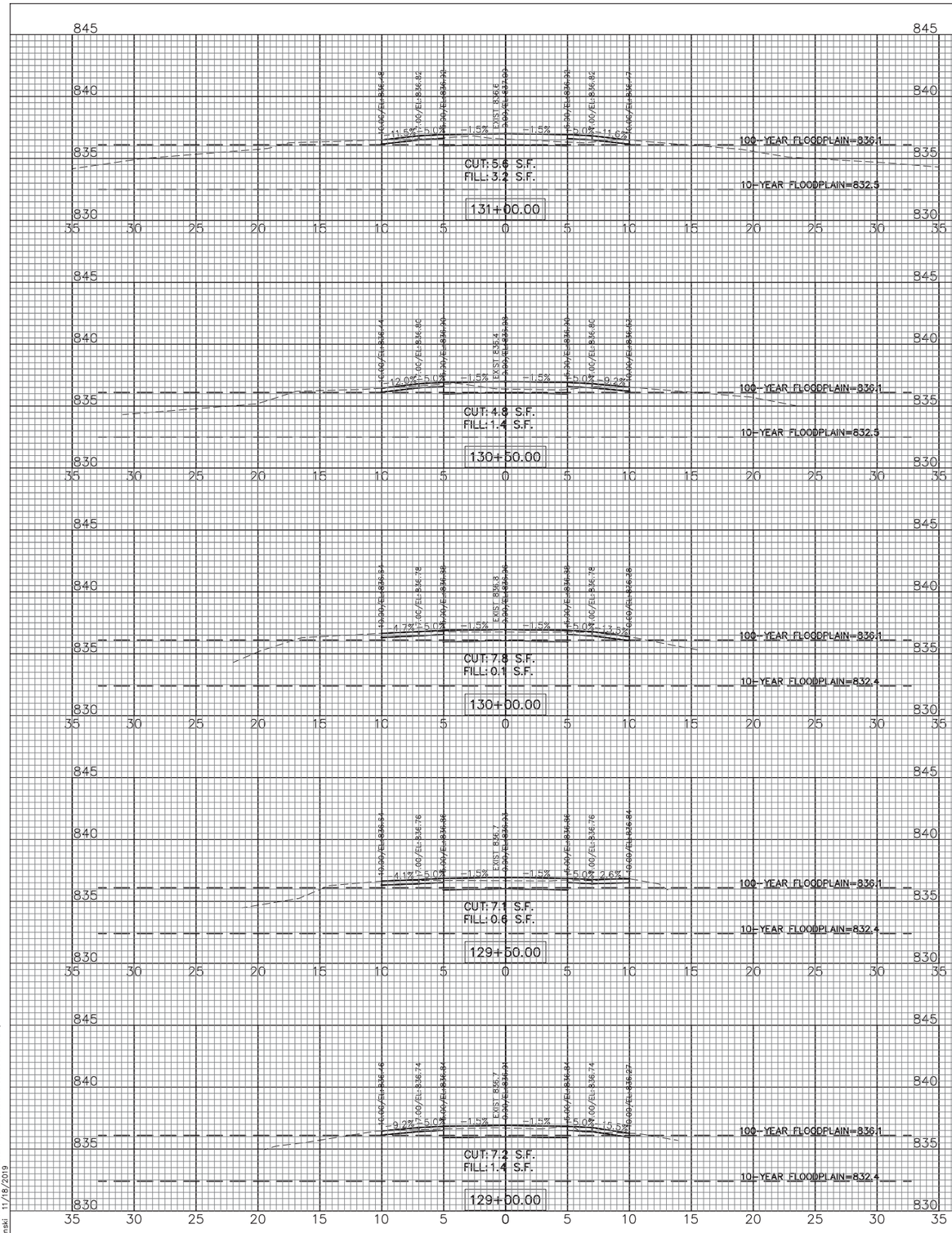
USER NAME = azielinski	DESIGNED — AK	REVISED — ___
	DRAWN — RT	REVISED — ___
PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___
PLOT DATE = 11/18/2019	DATE — June, 2019	REVISED — ___

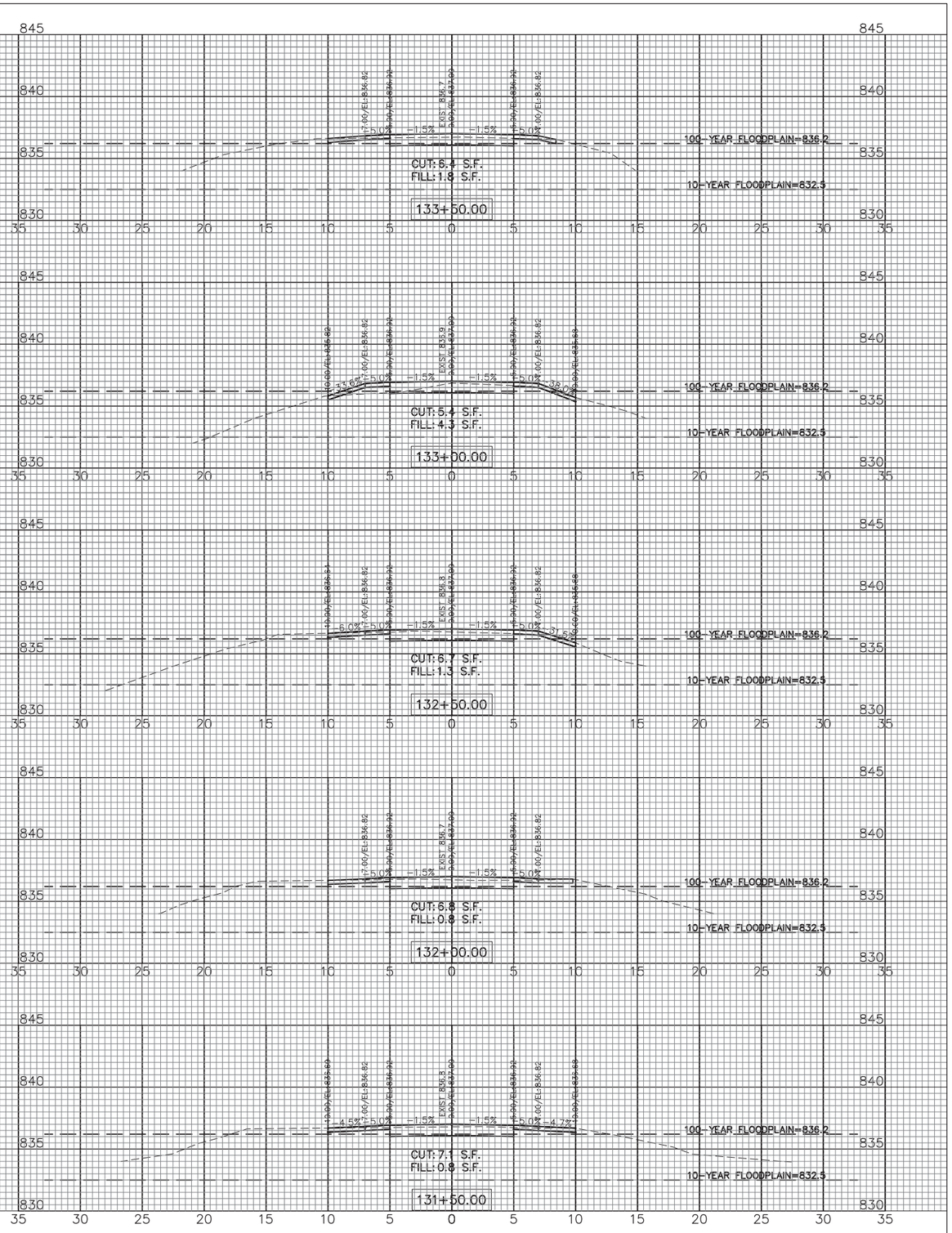
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
CROSS SECTIONS

SCALE: 1"=10'H; 1"=5'V | SHEET NO. 6 OF 9 SHEETS | STA. 124+00 TO STA. 128+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	DEKALB	58	55
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT _		





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

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

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General\Plan Sheets\160910.P2_PlanSheets.dgn
Engineering\CAD\160910.P2_GreatWesternTrailExtensionCrossSections.dwg
Updated by: azielinski 11/18/2019

ENGINEERING RESOURCE ASSOCIATES, INC.
CONSULTING ENGINEERS, SCIENTISTS & SURVEYORS

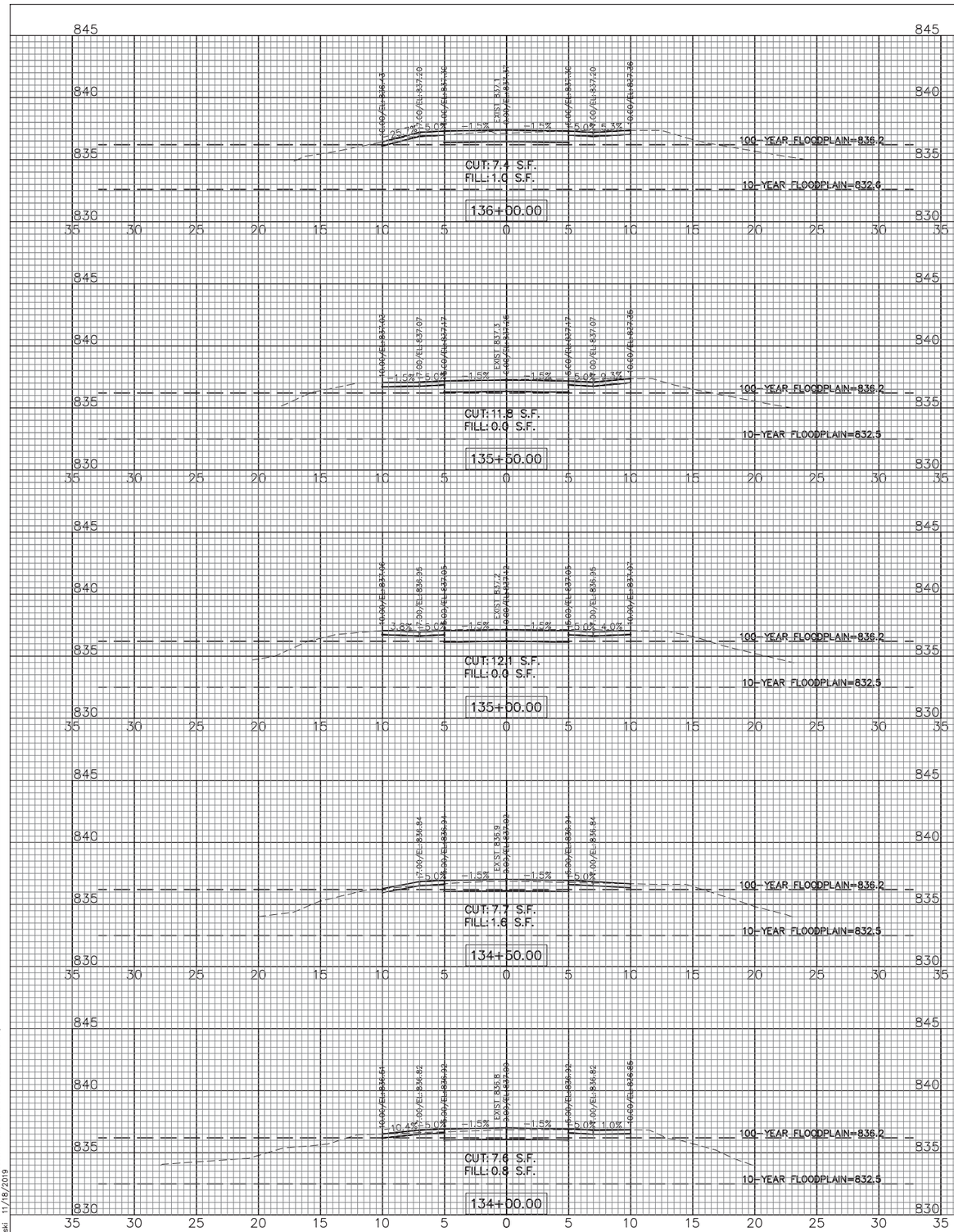
USER NAME = azielinski	DESIGNED — AK	REVISED — ___
	DRAWN — RT	REVISED — ___
PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___
PLOT DATE = 11/18/2019	DATE — June, 2019	REVISED — ___

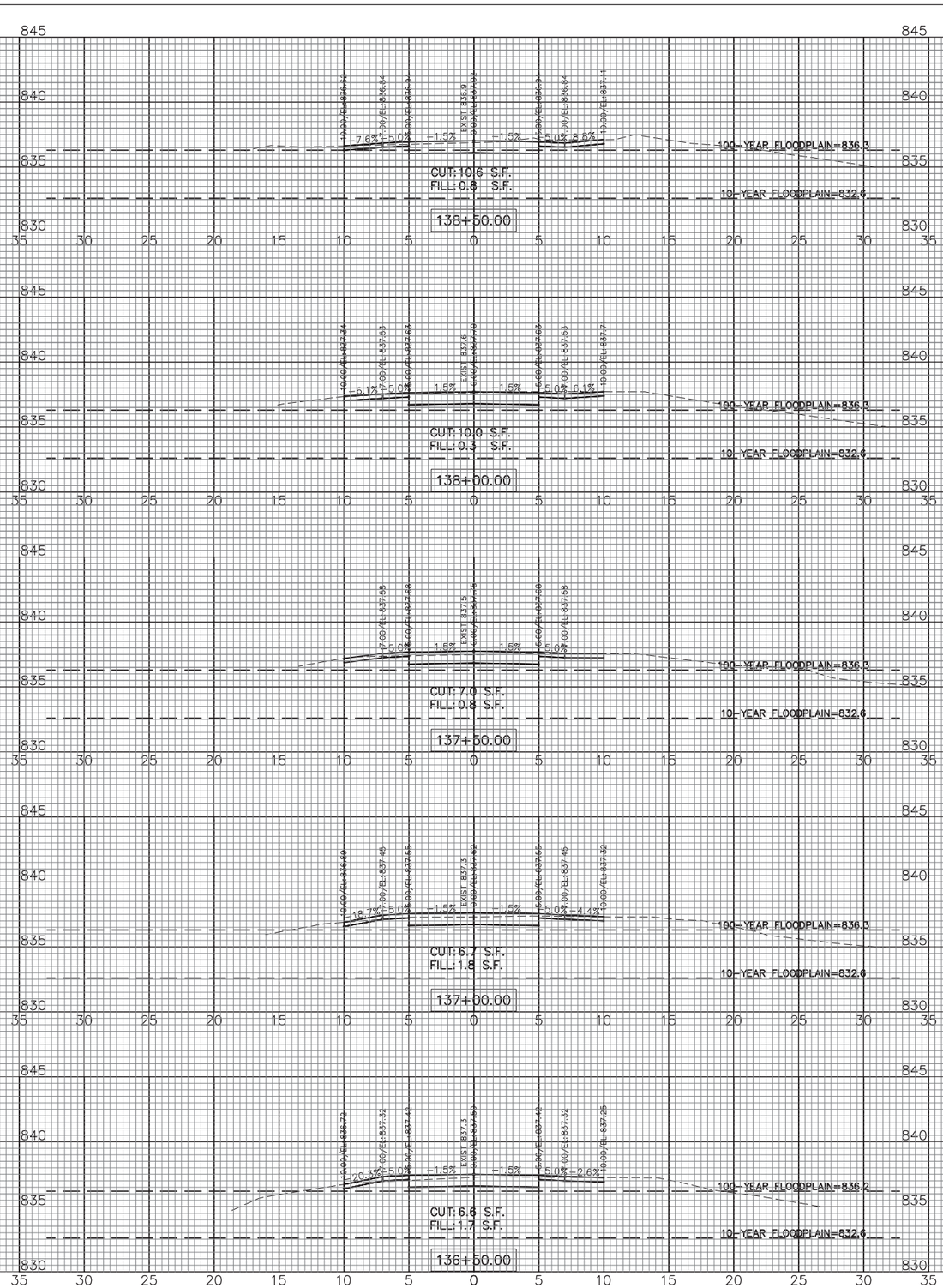
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
CROSS SECTIONS

SCALE: 1"=10'H;1"=5'V | SHEET NO. 7 OF 9 SHEETS | STA. 129+00 TO STA. 133+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	DEKALB	58	56
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT _		





FINAL SURVEY — SURVEYED / PLOTTED / DRAWN / AREAS / NOTE BOOK / NO. / AREAS CHECKED — BY / DATE

ORIGINAL SURVEY — SURVEYED / PLOTTED / DRAWN / AREAS / NOTE BOOK / NO. / AREAS CHECKED — BY / DATE

\\enrfs01\N_drive\Sycamore\PreDistrict\160910.00 Great Western Trail Extension\160910.P2 Public Engineering\CAD\160910.P2 GreatWesternTrailExtensionCrossSections.dwg
Updated by: azielinski 11/18/2019

ENGINEERING RESOURCE ASSOCIATES, INC.
CONSULTING ENGINEERS, SCIENTISTS & SURVEYORS

USER NAME = azielinski	DESIGNED — AK	REVISED — ___
	DRAWN — RT	REVISED — ___
PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___
PLOT DATE = 11/18/2019	DATE — June, 2019	REVISED — ___

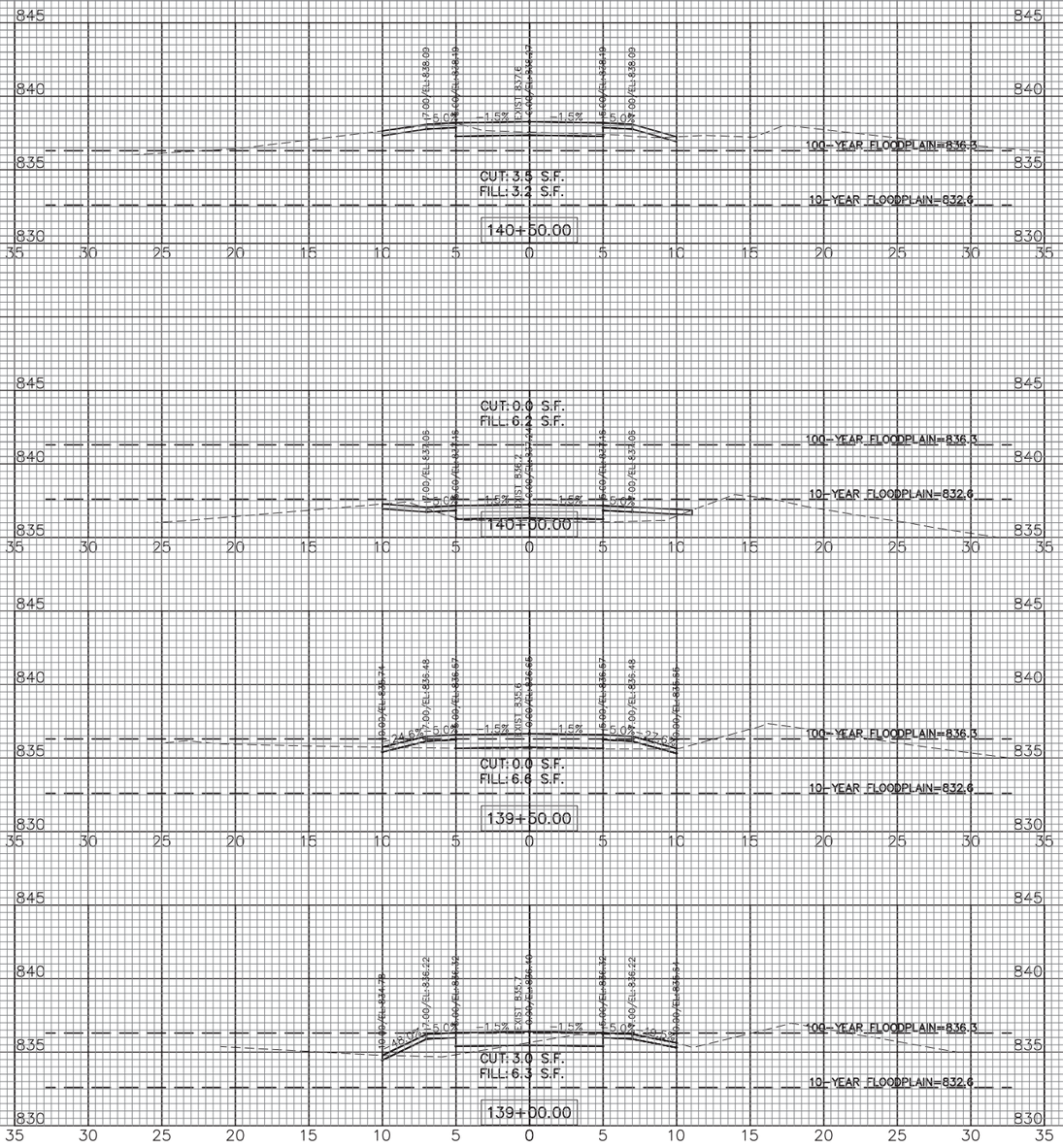
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
CROSS SECTIONS

SCALE: 1"=10'H;1"=5'V | SHEET NO. 8 OF 9 SHEETS | STA. 134+00 TO STA. 138+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	DEKALB	58	57
		CONTRACT NO. 87730		

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



FINAL SURVEY — SURVEYED / PLOTTED / DRAWN / TRACED / AREAS / AREAS CHECKED — NOTE BOOK — NO. ____ — BY — DATE

ORIGINAL SURVEY — SURVEYED / PLOTTED / DRAWN / TRACED / AREAS / AREAS CHECKED — NOTE BOOK — NO. ____ — BY — DATE

\\enrdfs01\Vc_drive\Sycamore\PlotDistrict\160910.00 Great Western Trail Extension\160910.P2 Phase II Engineering\CAD\160910.P2 GreatWesternTrailExtensionCrossSections.dwg
Updated by: azielinski 11/18/2019

ENGINEERING RESOURCE ASSOCIATES, INC.
CONSULTING ENGINEERS, SCIENTISTS & SURVEYORS

USER NAME = azielinski	DESIGNED — AK	REVISED — ___
	DRAWN — RT	REVISED — ___
PLOT SCALE = $SCALE$	CHECKED — JM	REVISED — ___
PLOT DATE = 11/18/2019	DATE — June, 2019	REVISED — ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREAT WESTERN TRAIL EXTENSION
CROSS SECTIONS

SCALE: 1"=10'H;1"=5'V | SHEET NO. 9 OF 9 SHEETS | STA. 139+00 TO STA. 140+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
_	18-P4006-01-BT	DEKALB	58	58
		CONTRACT NO. 87730		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT _		