

06-14-2019 LETTING ITEM 247

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PLANS FOR PROPOSED
HIGHWAY BRIDGE PROGRAM
STR FUNDS**

**T.R. 17 (RYAN RD.) OVER TRIBUTARY OF MACOUPIN CREEK
RUYLE TOWNSHIP
SECTION 16-11113-01-BR
PROJECT EVL1(467)
JERSEY COUNTY
C-98-346-16**



INDEX OF SHEETS

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- 12 - HP PILE DETAILS
- 13-18 - CROSS SECTIONS - T.R. 17
- 19-22 - CROSS SECTIONS - CHANNEL

STANDARDS

- STANDARD 000001-07
- STANDARD 001001-02
- STANDARD 280001-07
- STANDARD 515001-03
- STANDARD 701901-08
- STANDARD 725001-01
- STANDARD BLR 21-9

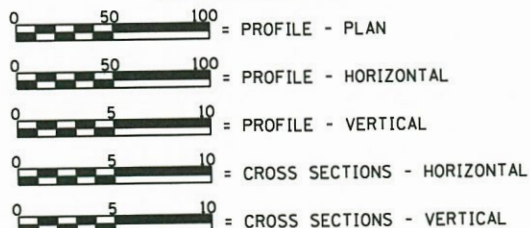
LIST OF UTILITIES

FRONTIER COMMUNICATIONS
225 N. BROAD STREET
CARLINVILLE, ILLINOIS 62626
1-217-854-4013

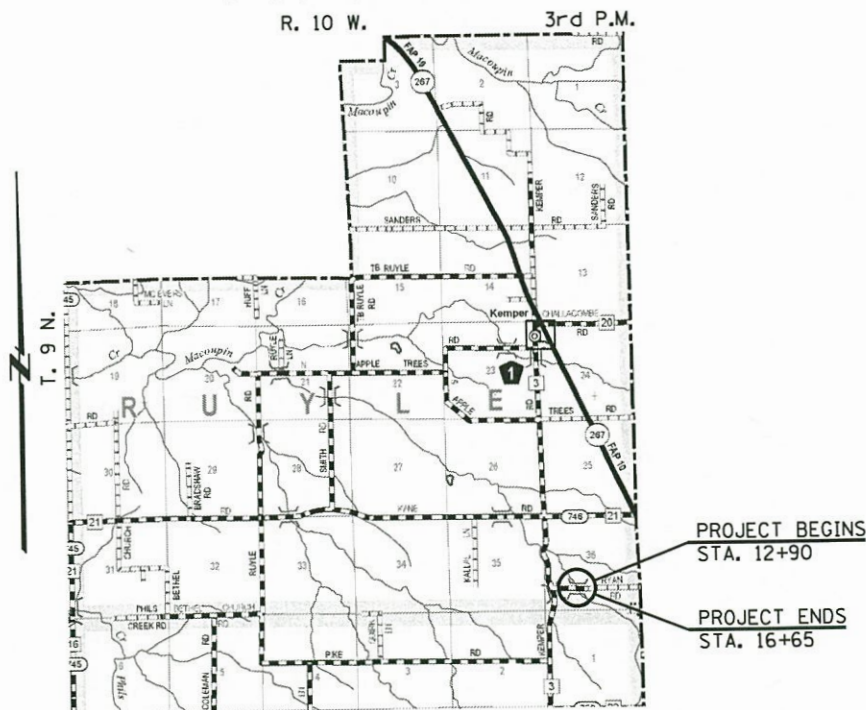
M.J.M. ELECTRIC COOPERATIVE, INC.
P.O. BOX 80
CARLINVILLE, ILLINOIS 62626
1-217-707-6156

VILLAGE OF MEDORA (WATER)
202 W. LOCUST STREET
MEDORA, ILLINOIS 62063
1-618-729-3845

SCALE IN FEET

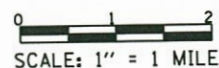


LAND SECTION - 36
LAND QUARTER SECTION - S.W.
FUNCTIONAL CLASSIFICATION: LOCAL ROAD (NON-URBAN)
A.D.T. - 100 (2017)
A.D.T. - 157 (2032)
30 M.P.H. DESIGN SPEED



LOCATION PLAN

NET LENGTH OF SECTION - 375.00 FEET = 0.071 MILES
GROSS LENGTH OF SECTION - 375.00 FEET = 0.071 MILES



EXISTING STRUCTURE: SINGLE SPAN POURED CONCRETE BRIDGE ON CLOSED ABUTMENTS WITH CONCRETE WINGWALLS ON FOOTINGS. ±27'-0" BK.-BK. ABUTMENTS, ±21'-0" WIDTH. WIDENED IN 2004 WITH A 4'-0" PRECAST PRESTRESSED CONCRETE DECK BEAM ON NORTH SIDE OF STRUCTURE. TYPE S1 RAIL ON NORTH SIDE, CONCRETE RAIL ON SOUTH SIDE. 0° SKEW.
EXISTING STRUCTURE NO. 042-3037

PROPOSED STRUCTURE: SINGLE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAMS (27") ON OPEN CONCRETE ABUTMENTS. 67'-0" BK.-BK. ABUTMENTS, 24'-0" OUT.-OUT. DECK WIDTH, STEEL RAILING TYPE S1. 40° SKEW RT. FWD. PROPOSED STRUCTURE NO. 042-3157

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED 3/27 2019
Thomas E. Krasner
COUNTY ENGINEER

APPROVED 3/27 2019
Tom McAfee
TOWNSHIP ROAD COMMISSIONER

PASSED April 12 2019
Jonh Schaller
DISTRICT EIGHT ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review
April 12 2019
Keith Roberts
REGION FIVE ENGINEER



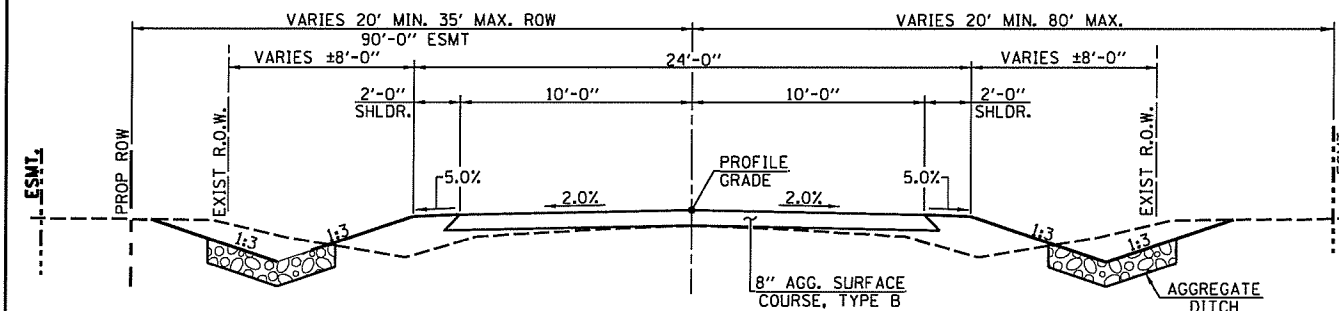
Christopher P. Koberus 4/3/19
EXPIRATION: 11/30/2019

TOLL FREE
"JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS"
(J.U.L.I.E.) TELEPHONE NUMBER
1-800-892-0123

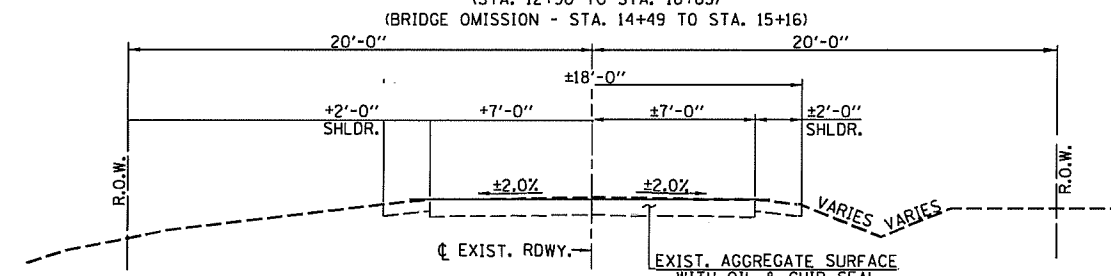
FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	<p>Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939</p>	TITLE SHEET			T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -		SCALE:	SHEET NO. 1 OF 22 SHEETS	STA. 12+90 TO STA. 16+65	17	16-11113-01-BR	JERSEY	22	1
		CHECKED -	REVISED -					CONTRACT NO. 97702				
		DATE -	REVISED -					FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

SUMMARY OF QUANTITIES

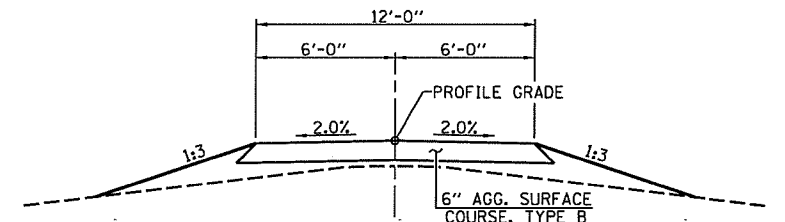
ITEM	UNIT	QUANTITY
20100500	TREE REMOVAL, ACRES	0.25
20200100	EARTH EXCAVATION	345
20300100	CHANNEL EXCAVATION	717
28000250	TEMPORARY EROSION CONTROL SEEDING	100
28000305	TEMPORARY DITCH CHECKS	18
28000500	INLET AND PIPE PROTECTION	2
28300400	AGGREGATE DITCH	85
40200800	AGGREGATE SURFACE COURSE, TYPE B	294
50100100	REMOVAL OF EXISTING STRUCTURES	1
50105220	PIPE CULVERT REMOVAL	16
50200100	STRUCTURE EXCAVATION	191
50300225	CONCRETE STRUCTURES	52.5
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	1567
50800105	REINFORCEMENT BARS	6760
50900205	STEEL RAILING, TYPE S1	134
51201400	FURNISHING STEEL PILES HP10X42	520
51202305	DRIVING PILES	520
51203400	TEST PILE STEEL HP10X42	1
51204650	PILE SHOES	10
51500100	NAME PLATES	1
54200220	PIPE CULVERTS, CLASS D, TYPE 1 15"	82
67100100	MOBILIZATION	1
72501000	TERMINAL MARKER - DIRECT APPLIED	4
X2501000	SEEDING, CLASS 2 (SPECIAL)	0.75
X2810808	STONE DUMPED RIPRAP, CLASS A4 (SPECIAL)	448
XX009289	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	1
Z0022800	FENCE REMOVAL	145



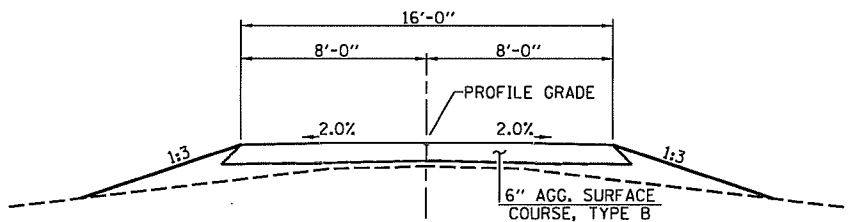
PROPOSED TYPICAL SECTION
(STA. 12+90 TO STA. 16+65)



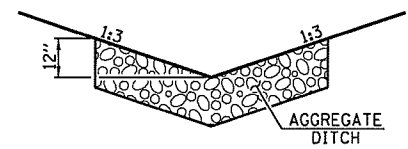
EXISTING TYPICAL SECTION
(STA. 12+90 TO STA. 16+65)



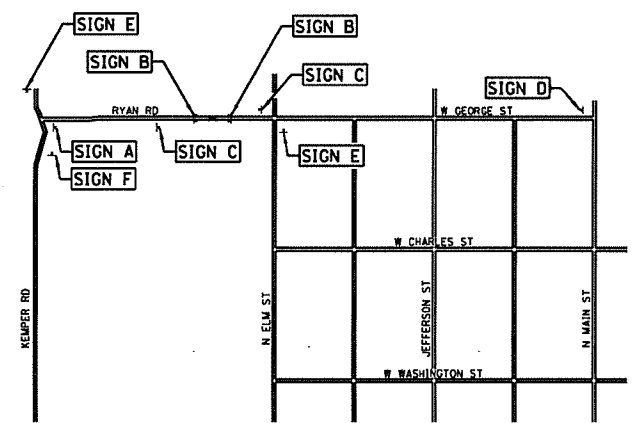
PROPOSED CROSS SECTION
(P.E. STA. 14+38)



PROPOSED CROSS SECTION
(F.E. STA. 16+38)



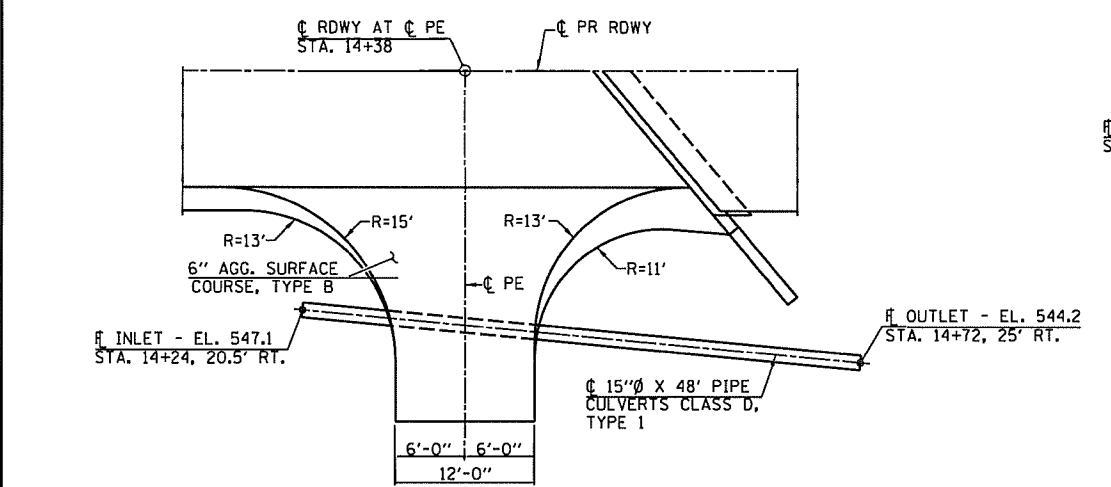
AGGREGATE DITCH DETAIL
STA. 13+10 TO STA. 14+24 RT.
STA. 14+94 TO STA. 16+17 LT. &
STA. 16+51 TO STA. 16+65 LT.



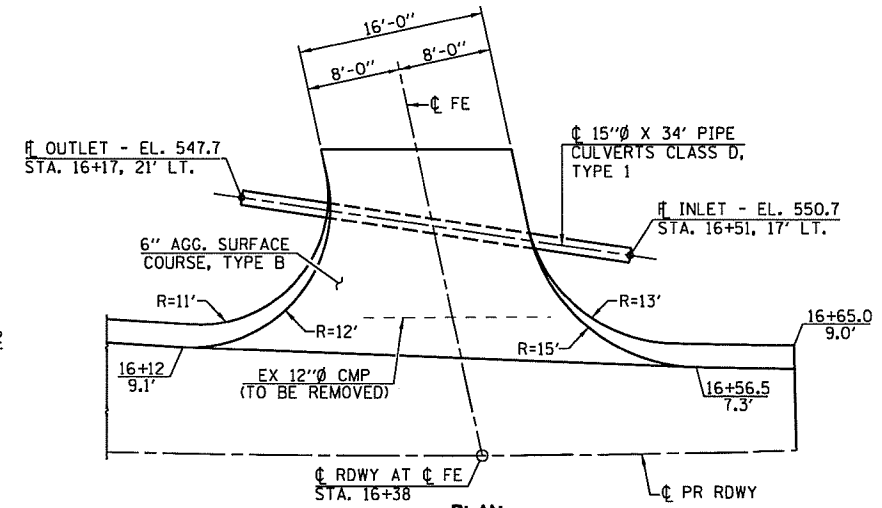
BARRICADE LOCATION
(NOT TO SCALE)

LEGEND

- SIGN A - "ROAD CLOSED AHEAD" W20-3(O) 4848
- SIGN B - TYPE III BARRICADE W20-3(O) 4848
- SIGN C - "ROAD CLOSED 500 FEET" W20-3(O) 4848
- SIGN D - "ROAD CLOSED 1 MILES AHEAD" LOCAL TRAFFIC ONLY W20-3(O) 4848
- SIGN E - "ROAD CLOSED AHEAD" WITH W1-6L
- SIGN F - "ROAD CLOSED AHEAD" WITH W1-6R



PLAN
(P.E. - STA. 14+38 RT.)



PLAN
(F.E. - STA. 16+38 LT.)

GENERAL NOTES

- SEEDING: FERTILIZER NUTRIENTS SHALL BE APPLIED AT A RATIO OF 1:1:1 AND AT A RATE OF 90 POUNDS PER ACRE FOR EACH NUTRIENT.
- MULCH SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE.
- AREAS TO BE SEEDDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER. ALL DISTURBED EARTH SURFACES BEYOND ROW IS THE RESPONSIBILITY OF AND COST TO THE CONTRACTOR.
- EMBANKMENT SHRINKAGE FACTOR IS CALCULATED AT 25%.
- IF ASH TREES ARE REMOVED ON THE PROJECT, THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH MEASURES SPECIFIED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE (IDOA) TO PREVENT THE SPREAD OF THE EMERALD ASH BORER. THE IDOA INFORMATION OF ASH TREES REMOVAL CAN BE FOUND ON THE IDOA WEB SITE AT WWW.AGR.STATE.IL.US/EAB.
- WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE DEPARTMENT AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER. THE COUNTY ASSUMES NO RESPONSIBILITY IN RESPECT TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF THE UNDERGROUND UTILITY FACILITIES.
- COMMITMENTS: PER NATURAL RESOURCES REVIEW DATED MARCH 12, 2018, THERE IS A POTENTIAL FOR IMPACTS TO THE IBAT AND NLEB, AND THEREFORE, THE FOLLOWING ACTIONS SHALL BE INCORPORATED.
 1. TO ENSURE NO EFFECT TO EITHER SPECIES OF BAT, THE PROJECT PROPONENT SHALL CONDUCT A FINAL INSPECTION OF THE BRIDGE NO MORE THAN 7 DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITY FOR WORK THAT IS SCHEDULED DURING THE SPECIES ACTIVE SEASON, FROM APRIL 1 THROUGH SEPTEMBER 30.
 2. TREES THREE (3) INCHES IN DIAMETER AND AT BREAST HEIGHT WILL NOT BE CLEARED FROM APRIL 1 THROUGH SEPTEMBER 30.

SCHEDULE - FENCE REMOVAL

LOCATION	QUANTITY (FOOT)
STA. 15+20 TO STA. 16+65 27' LT.	145
TOTAL	145

SCHEDULE - INLET & PIPE PROTECTION

LOCATION	QUANTITY (EACH)
STA. 14+24 20.5' LT.	1
STA. 16+51 22' LT.	1
TOTAL	2

SCHEDULE - TEMPORARY DITCH CHECKS

LOCATION	QUANTITY (FOOT)
STA. 13+75 16' RT.	6
STA. 15+00 25' LT.	6
STA. 15+75 27' LT.	6
TOTAL	18

SCHEDULE - SEEDING, CLASS 2 (SPECIAL)

LOCATION	QUANTITY (ACRE)
STA. 12+90 TO STA. 16+65 ROW LT.	0.15
STA. 13+65 TO STA. 15+00 TEMP. EASEMENT LT.	0.17
STA. 12+90 TO STA. 16+65 ROW & EASEMENT RT.	0.27
TOTAL	0.59

USE 0.75 ACRE

SCHEDULE - TREE REMOVAL

LOCATION	QUANTITY (ACRE)
STA. 13+65 23' LT. TO STA. 14+56 17' LT.	0.05
STA. 14+35 90' LT. TO STA. 15+11 17' LT.	0.05
STA. 14+54 50' RT. TO STA. 15+43 80' RT.	0.04
STA. 15+24 28' RT. TO STA. 16+00 55' RT.	0.03
TOTAL	0.17

USE 0.25 ACRE

SCHEDULE - TEMPORARY EROSION CONTROL SEEDING

LOCATION	QUANTITY (POUND)
STA. 12+90 TO STA. 16+65 ROW LT.	15
STA. 13+65 TO STA. 15+00 TEMP. EASEMENT LT.	17
STA. 12+90 TO STA. 16+65 ROW & EASEMENT RT.	27
TOTAL	59

USE 100 POUNDS

SCHEDULE - AGGREGATE SURFACE COURSE, TYPE B

LOCATION	QUANTITY (TON)
STA. 12+90 TO STA. 16+65	268
P.E. - STA. 14+38 RT.	12
F.E. - STA. 16+38 LT.	14
TOTAL	294

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU. YD.	CU. YD.	CU. YD.	CU. YD.
STA. 12+90 TO STA. 13+00	2	2	0	2
STA. 13+00 TO STA. 13+25	18	14	0	14
STA. 13+25 TO STA. 13+50	30	23	0	23
STA. 13+50 TO STA. 13+75	37	28	0	28
STA. 13+75 TO STA. 14+00	50	38	0	38
STA. 14+00 TO STA. 14+25	45	34	7	27
STA. 14+25 TO STA. 14+33	7	5	2	3
STA. 14+33 TO STA. 14+49	7	5	0	5
BRIDGE OMISSION - STA. 14+49 TO STA. 15+16				
STA. 15+16 TO STA. 15+32	10	7	23	-16
STA. 15+32 TO STA. 15+50	21	16	12	4
STA. 15+50 TO STA. 15+75	29	22	9	13
STA. 15+75 TO STA. 16+00	30	23	3	20
STA. 16+00 TO STA. 16+25	31	23	3	20
STA. 16+25 TO STA. 16+50	24	16	4	12
STA. 16+50 TO STA. 16+65	5	4	1	3
TOTAL	346	260	64	196*

USE 345 CU. YD.

* NO FURNISHED EXCAVATION REQUIRED. 196 CU. YDS. OF EXCESS EARTH EXCAVATION AND 717 CU. YDS. OF CHANNEL EXCAVATION TO BE DISPOSED OF OFF SITE TO THE SATISFACTION OF THE ENGINEER. COST INCLUDED IN EARTH EXCAVATION AND CHANNEL EXCAVATION.

SCHEDULE - AGGREGATE DITCH

LOCATION	QUANTITY (TON)
STA. 13+10 TO STA. 14+24 RT.	42
STA. 14+94 TO STA. 16+17 LT.	41
STA. 16+51 TO STA. 16+65 LT.	2
TOTAL	85

SCHEDULE - TERMINAL MARKER - DIRECT APPLIED

LOCATION	QUANTITY (TON)
STA. 14+38.9 12' LT.	1
STA. 14+59.1 12' RT.	1
STA. 15+09.9 12' LT.	1
STA. 15+26.1 12' RT.	1
TOTAL	4

SCHEDULE - PIPE CULVERTS, CLASS D, TYPE 1

LOCATION	QUANTITY (TON)
STA. 14+24 20.5' TO STA. 14+72 25' RT.	48
STA. 16+17 17' TO STA. 16+51 22' LT.	34
TOTAL	82

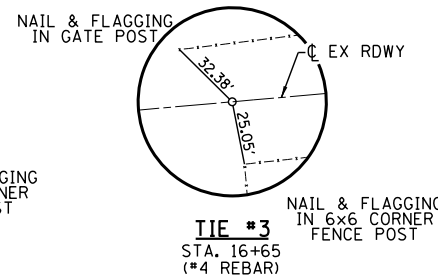
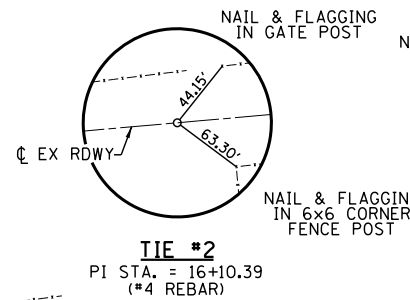
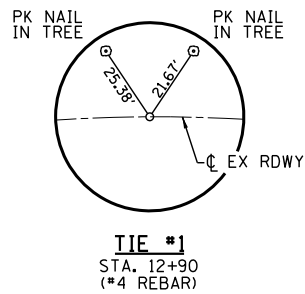
SCHEDULE - STONE DUMPED RIPRAP, CLASS A4

LOCATION	QUANTITY (TON)
STA. 14+52.5 TO STA. 14+79	224
STA. 14+86 TO STA. 15+12.5	224
TOTAL	448

SCHEDULE - PIPE CULVERT REMOVAL

LOCATION	QUANTITY (FOOT)
STA. 16+30 12' LT. TO STA. 16+26 12' LT.	16
TOTAL	16

SECTION 36, T. 9 N., R. 10 W., 3rd PM



PROP. CURVE DATA
 PI STA. = 16+10.39
 $\Delta = 5^\circ 07' 48''$ (LT)
 $D = 5^\circ 01' 58''$
 $R = 1,138.45'$
 $T = 51.00'$
 $L = 101.93'$
 $E = 1.14'$
 P.C. STA. = 15+59.39
 P.T. STA. = 16+61.32
 NO SUPERELEVATION

STEPHEN AND KIMBERLY YURICK

NEW 15"Ø X 34' PIPE
 CULVERTS CLASS D, TYPE 1
 # INLET - EL. 550.7
 STA. 16+51, 17' LT.
 # OUTLET - EL. 547.7
 STA. 16+17, 22' LT.



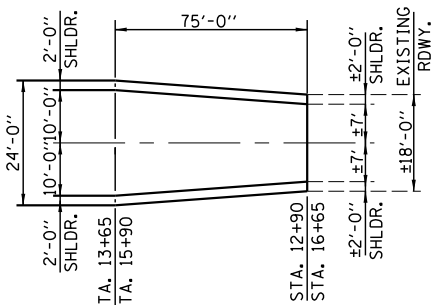
GEORGE AND DARLENE LAHR

DUANE LOY

STEPHEN AND KIMBERLY YURICK

NEW 15"Ø X 48' PIPE
 CULVERTS CLASS D, TYPE 1
 # INLET - EL. 547.1
 STA. 14+24, 20.5' RT.
 # OUTLET - EL. 544.2
 STA. 14+72, 25' RT.

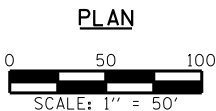
STA. 14+82.50 - # RDWY @ # STRUCTURE
 PROPOSED STRUCTURE: SINGLE SPAN PRECAST
 PRESTRESSED CONCRETE DECK BEAMS (27") ON
 OPEN CONCRETE ABUTMENTS. 67'-0" BK.-BK.
 ABUTMENTS, 24'-0" OUT.-OUT. DECK, STEEL
 RAILING TYPE S1. 40° SKEW RT. FWD.



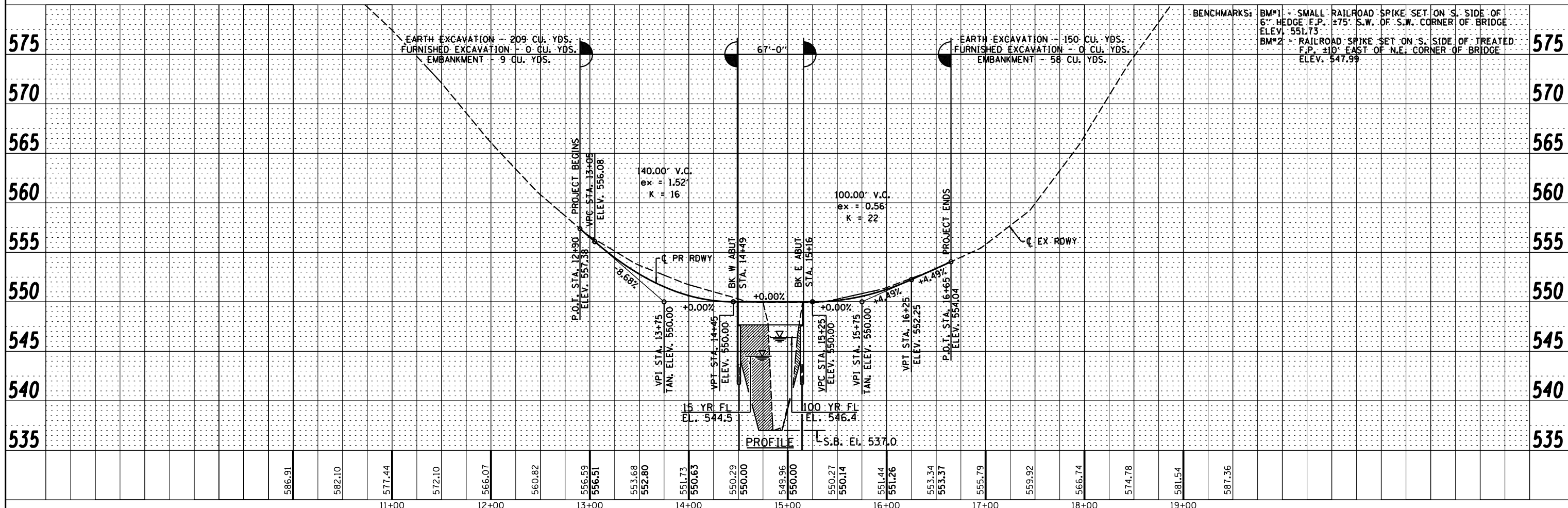
ROADWAY TRANSITION DETAIL

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

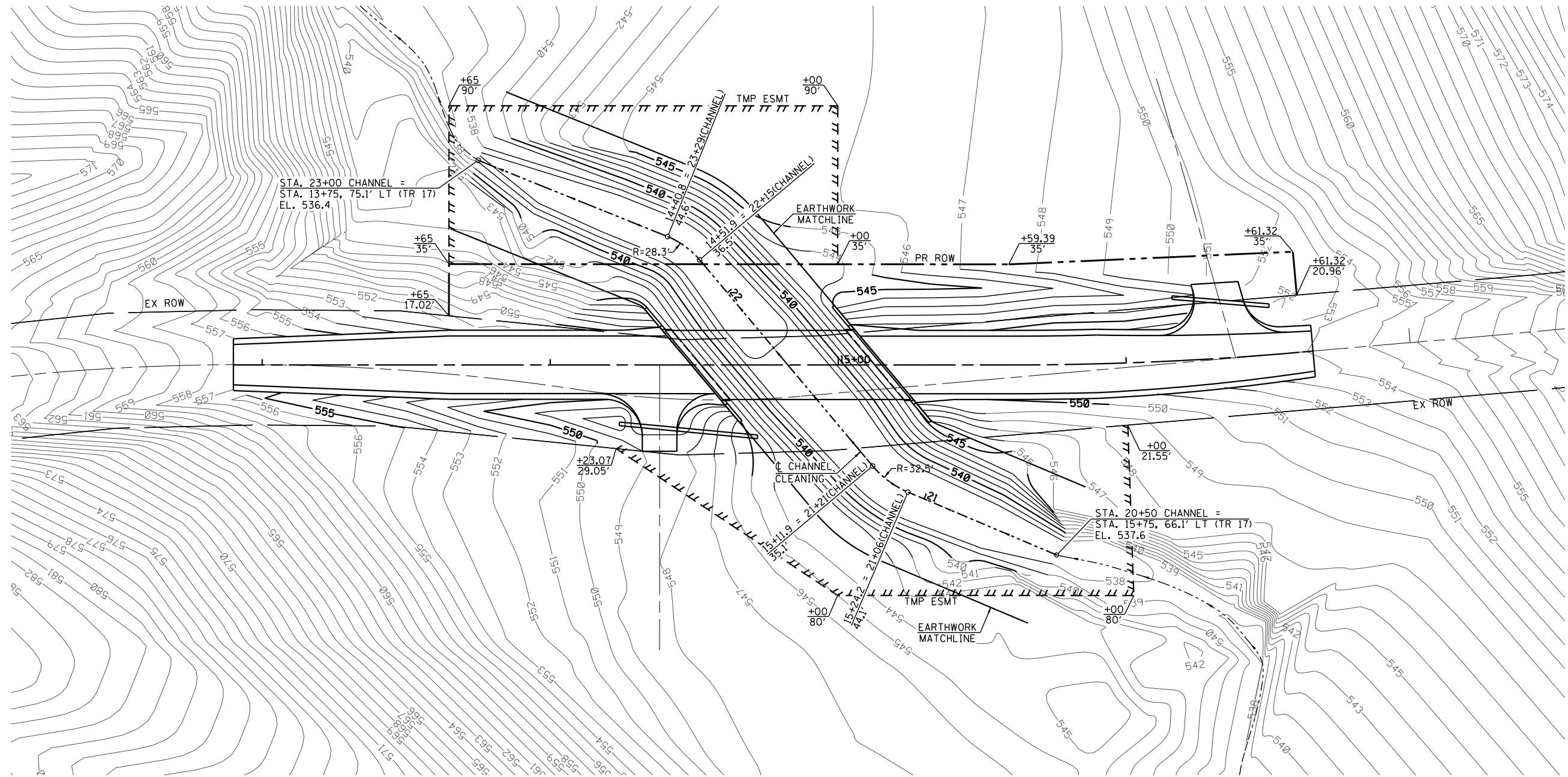
PROFILE	SURVEYED	DATE
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	STRUCTURE	
	NOTATIONS	
	CHFD	
	NO.	



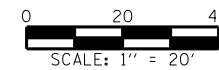
STEPHEN AND KIMBERLY YURICK



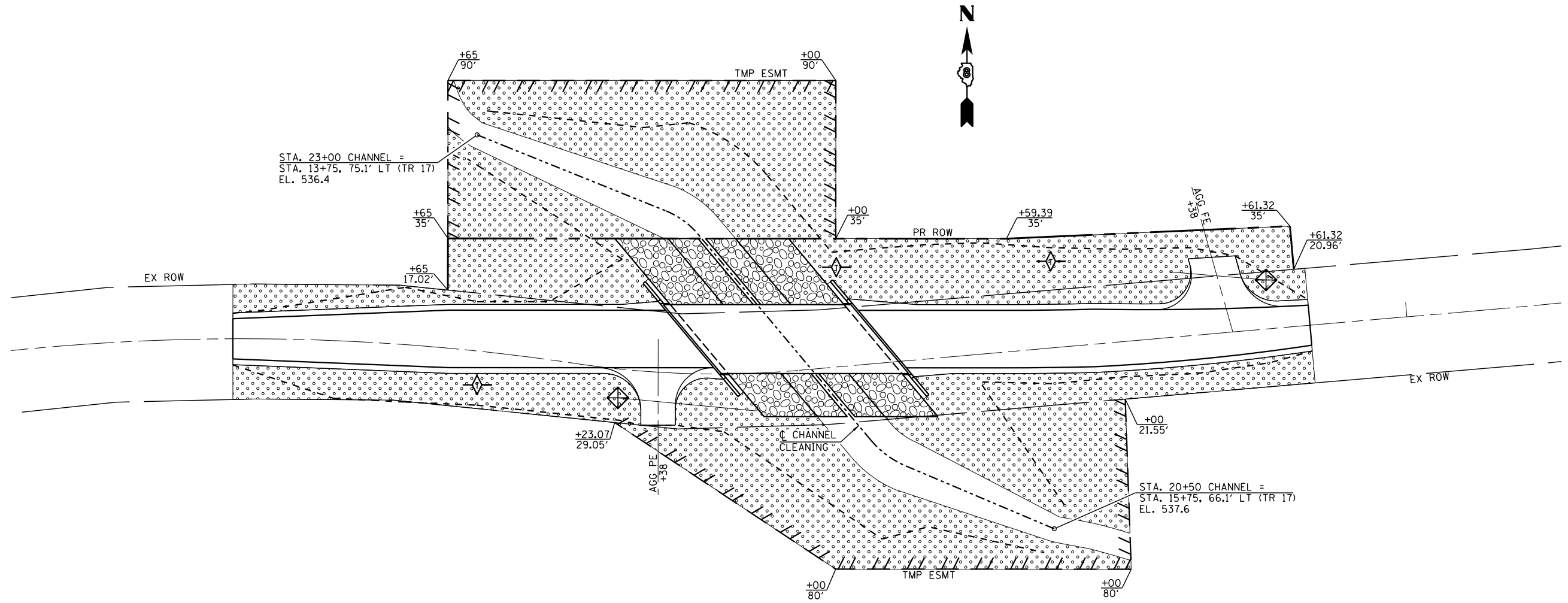
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FILEL		CHECKED -	REVISD -		SCALE: 1" = 50'	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	17	16-11113-01-BR	JERSEY	22	4
		DRAWN -	REVISD -					CONTRACT NO. 97702					
		CHECKED -	REVISD -					FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			






GRADING PLAN



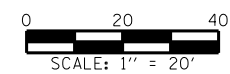
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	PLOT SCALE = *SCALE*	DRAWN -	REVISED -		SCALE: 1" = 20'	SHEET NO. 1 OF 1 SHEETS	STA. _____	TO STA. _____	17	16-11113-01-BR	JERSEY	22	5
	PLOT DATE = *DATE*	CHECKED -	REVISED -						CONTRACT NO. 97702				
		DATE -	REVISED -						FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				



LEGEND

-  - TEMPORARY DITCH CHECK
-  - INLET & PIPE PROTECTION
-  - TEMPORARY EROSION CONTROL SEEDING

EROSION CONTROL PLAN

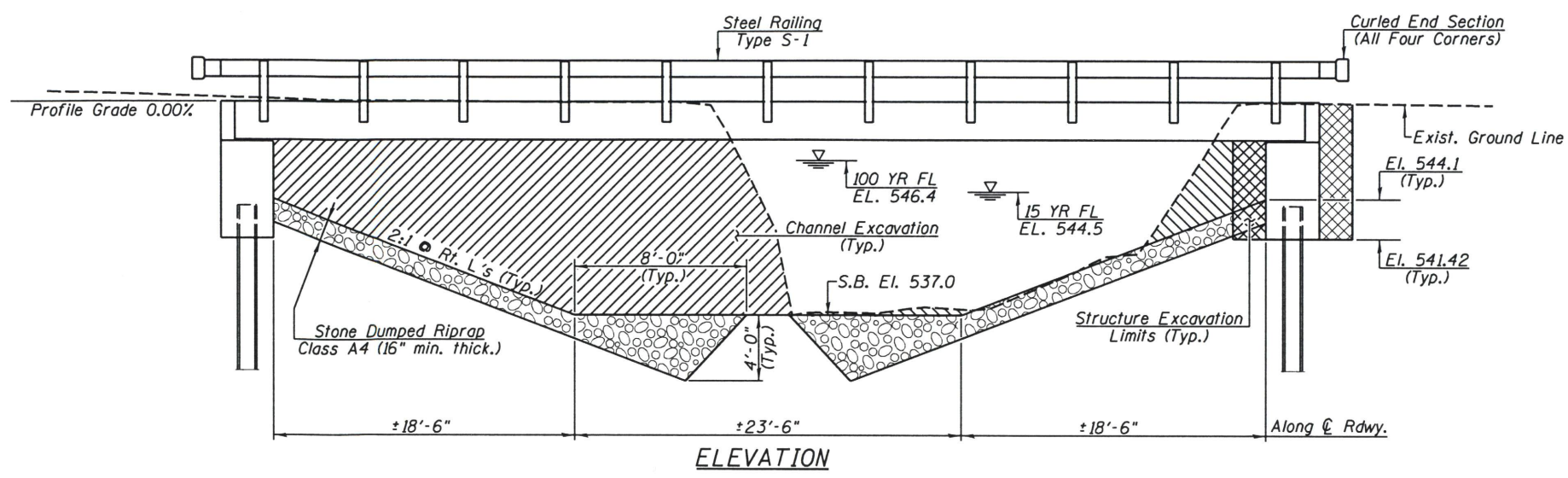


FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED -	REVISED -		Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	EROSION CONTROL PLAN	SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS	STA. _____ TO STA. _____	T.R. RTE. 17	SECTION 16-11113-01-BR	COUNTY JERSEY	TOTAL SHEETS 22	SHEET NO. 6	
		DRAWN -	REVISED -		CONTRACT NO. 97702				FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					
		CHECKED -	REVISED -											
		DATE -	REVISED -											

Benchmarks: BM#1 - Small railroad spike set on south side of 6" hedge fence post 75' southwest of southwest corner of the structure. El. 551.73.
 BM#2 - Railroad spike set on south side of 8" treated fence post 10' east of the northeast corner of the structure. El. 547.99
 Existing Structure: Single Span Concrete Deck structure with closed concrete abutments and concrete wingwalls founded on concrete footings. 27'-0" Bk.-Bk. Abuts., 21'-0" width.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			717
Stone Dumped Riprap, Class A4	Ton			448
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		191	191
Concrete Structures	Cu. Yd.		52.5	52.5
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1567		1567
Reinforcement Bars, Epoxy Coated	Pound		6760	6760
Steel Railing, Type S-1	Foot	134		134
Furnishing Steel Piles HP 10x42	Foot		520	520
Test Pile Steel HP 10x42	Each		1	1
Driving Piles	Foot		520	520
Name Plates	Each		1	1
Pile Shoes	Each		10	10



WATERWAY INFORMATION

Drainage Area = 1.34 Sq. Mi. Pr. Low Grade Elev. 550.0 Sta. 15+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	15	758	145	247	544.5	0.0	0.0	544.5	544.5
Base	100	1348	196	335	546.4	0.0	0.0	546.4	546.4
Exist. Overtop.	Greater Than 500 Years								
Prop. Overtop.	Greater Than 500 Years								
Max. Calc.	500	1877	208	386	547.6	0.6	0.0	548.2	547.6

DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)		
	W. Abut.	E. Abut.	Item 113
Q100	541.42	541.42	8
Q200	541.42	541.42	
Design	541.42	541.42	
Check	541.42	541.42	

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

DESIGN SPECIFICATIONS
 2017 AASHTO LRFD Bridge Design Specifications, 8th Edition.

DESIGN STRESSES
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

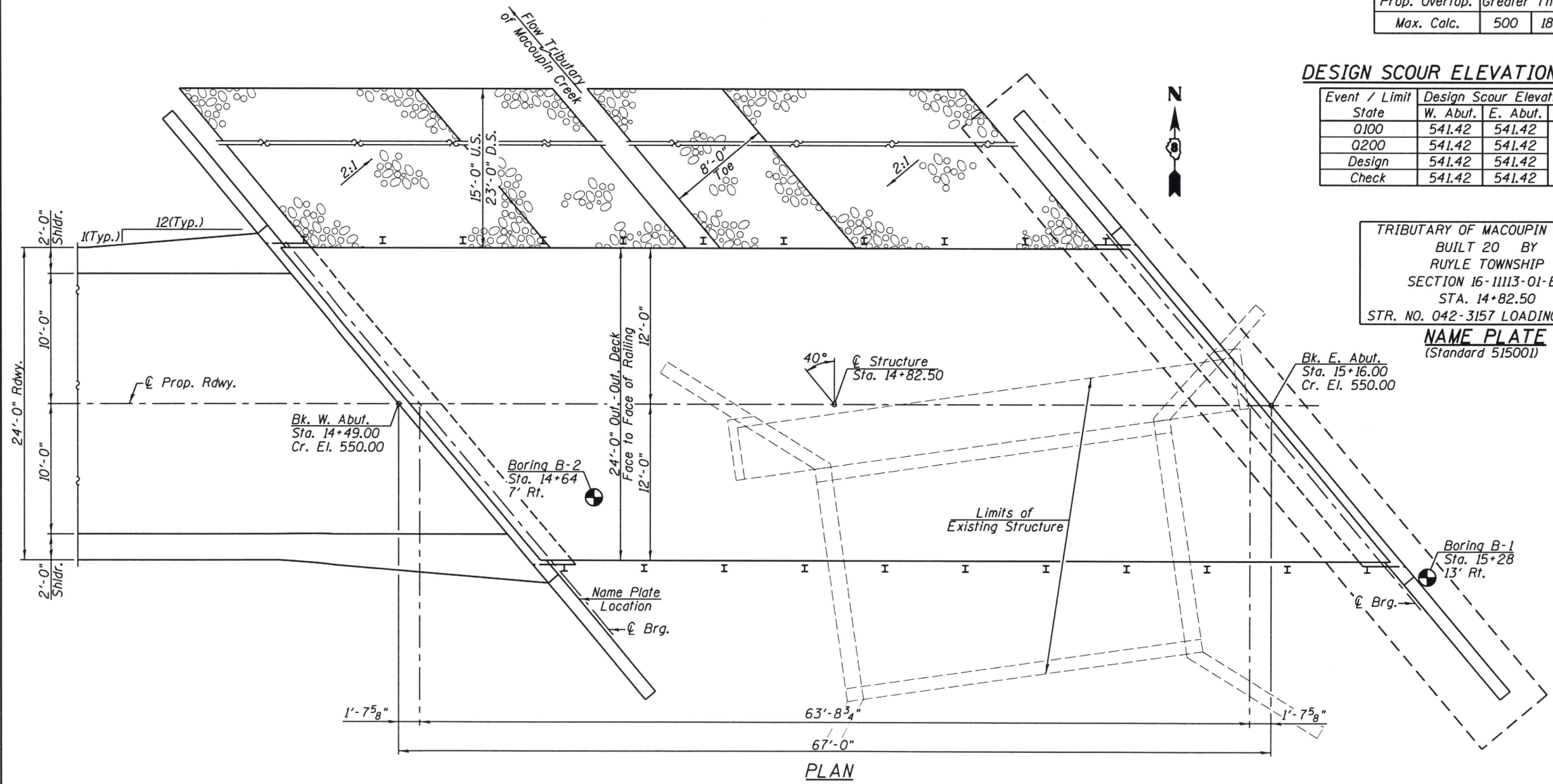
PRECAST PRESTRESSED UNITS
 $f'_c = 6,000$ psi
 $f'_ci = 5,000$ psi
 $f_{pu} = 270,000$ psi ($1/2$ " ϕ low lax strands)
 $f_{pbt} = 201,960$ psi ($1/2$ " ϕ low lax strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.184 g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.379 g
 Soil Site Class = D

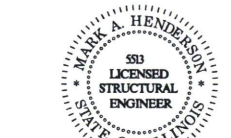
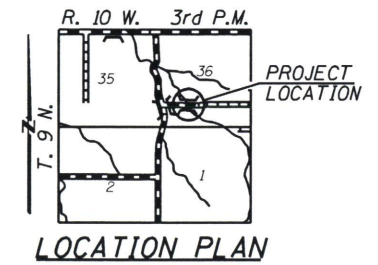
GENERAL NOTES

See Proposal for Boring Data.
 Layout of the riprap slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "A.A.S.H.T.O. LRFD Bridge Design Specifications.

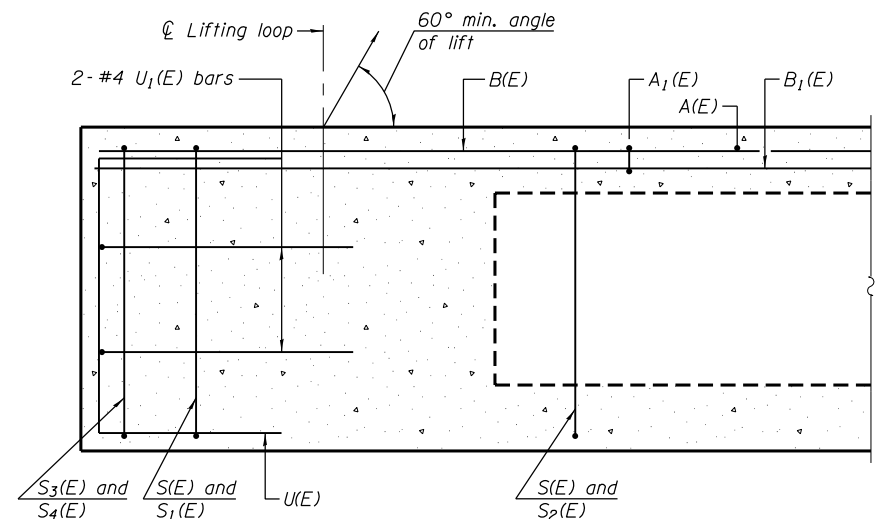


TRIBUTARY OF MACOUPIN CREEK
 BUILT 20 BY
 RUYLE TOWNSHIP
 SECTION 16-11113-01-BR
 STA. 14+82.50
 STR. NO. 042-3157 LOADING HL-93

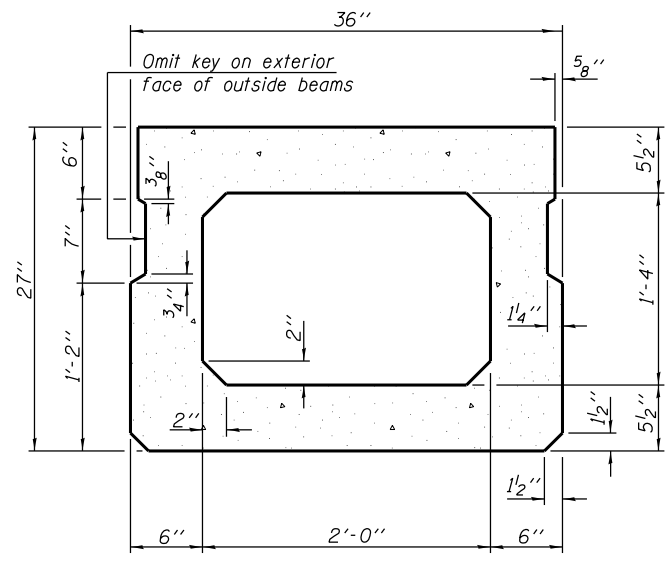
NAME PLATE
 (Standard 515001)



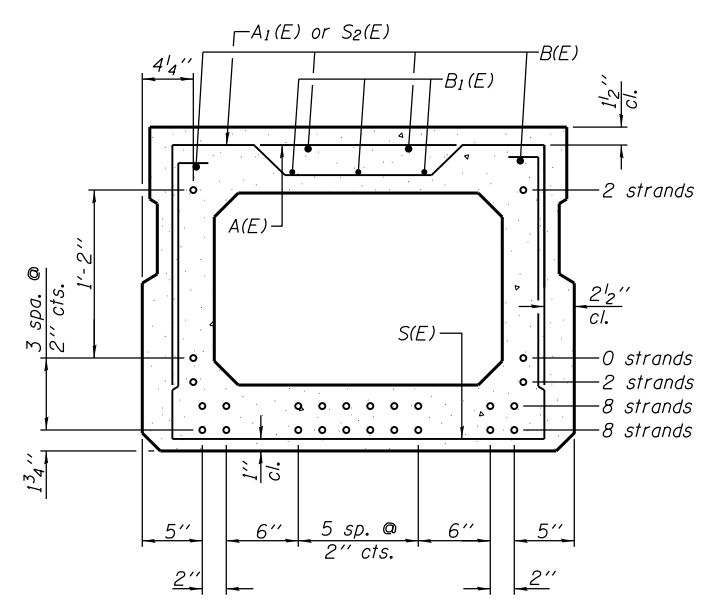
Expiration Date 11/30/2020



SECTION A-A

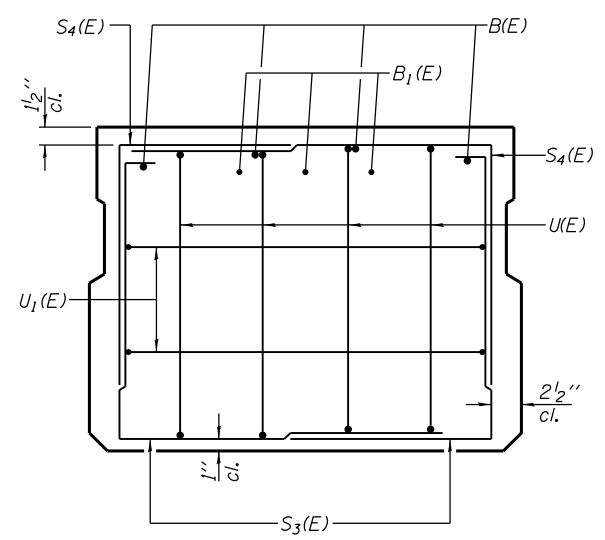


SECTION B-B
(Showing dimensions)

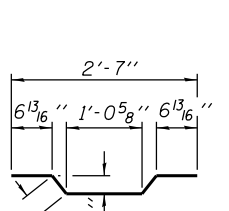


SECTION B-B

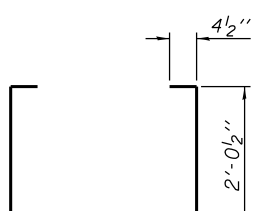
(Showing reinforcement and permissible strand locations)
 Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.



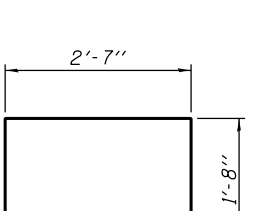
VIEW C-C



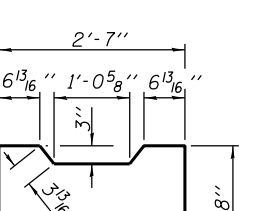
BAR A1(E)



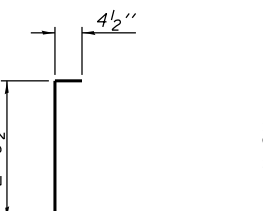
BAR S(E)



BAR S1(E)



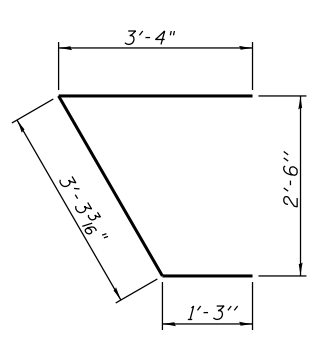
BAR S2(E)



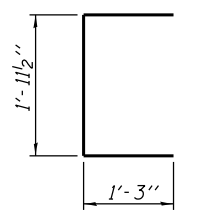
BAR S3(E)



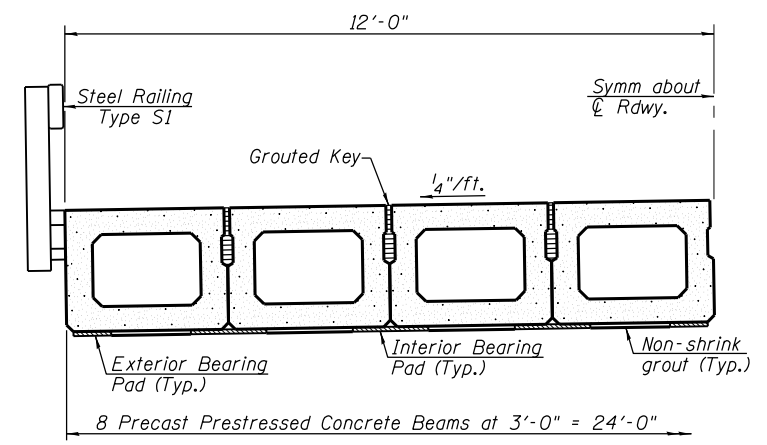
BAR S4(E)



BAR U1(E)

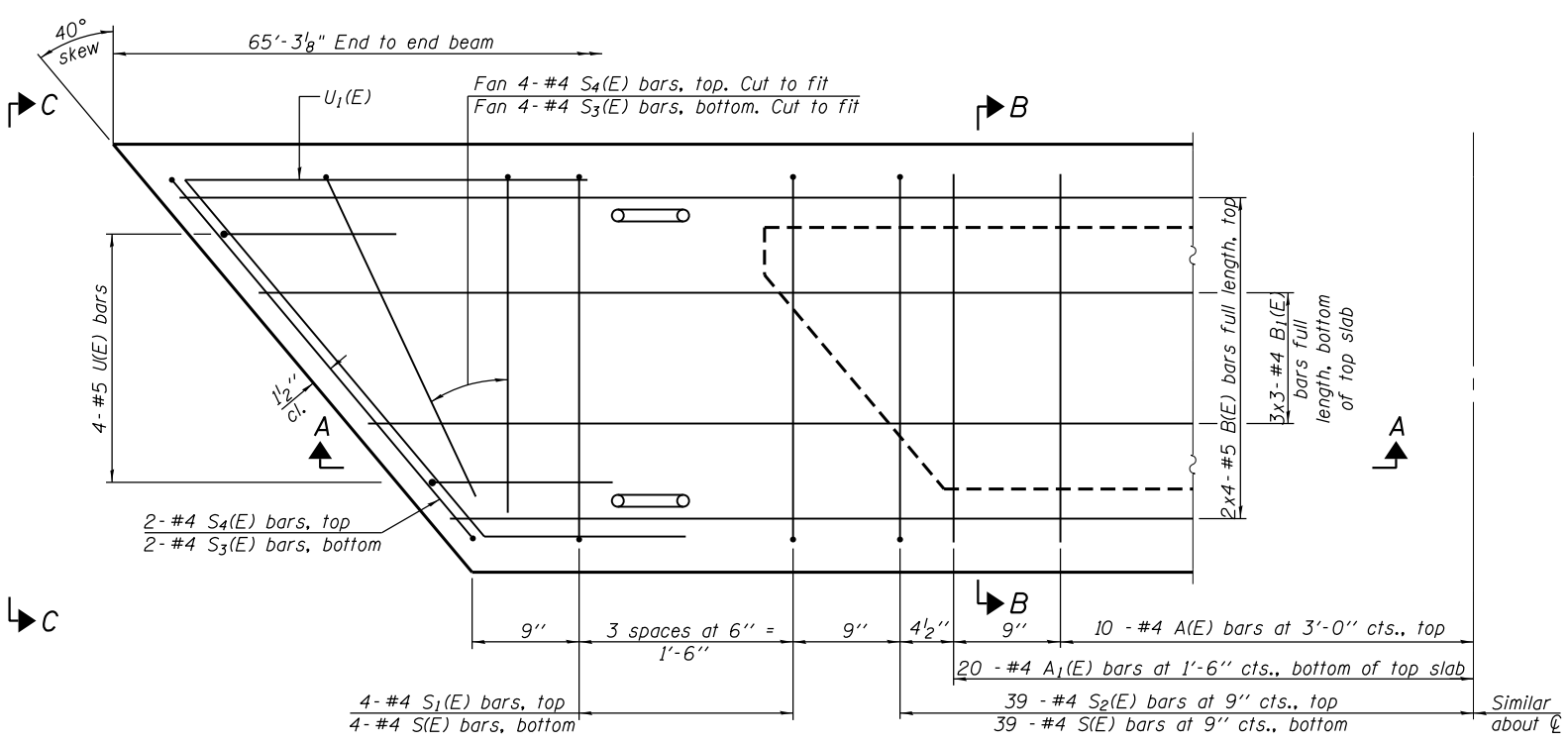


BAR U(E)



HALF CROSS SECTION

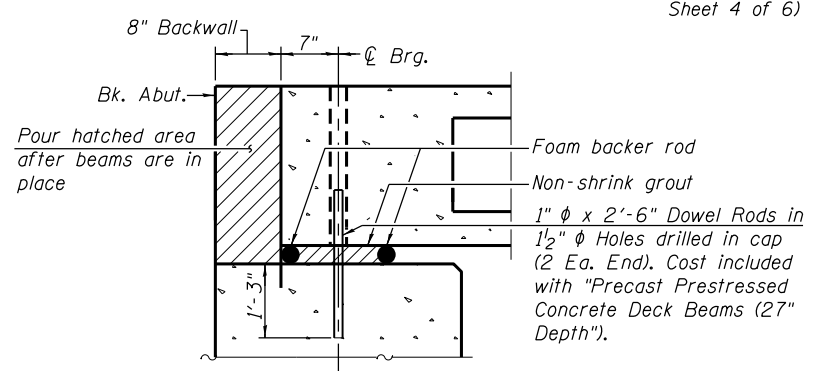
* Rail post anchors to be cast into exterior face of outside beams (Per Sheet 4 of 6)



PLAN VIEW

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

MINIMUM BAR LAP
 #4 bar = 1'-11"
 #5 bar = 2'-6"



SECTION A-A
(At Right Angles)

Notes: After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys. Bearing area to be grouted at the time of dowel placement.

BAR LIST
ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)	20	#4	2'-7"	—
A1(E)	39	#4	2'-10"	—
B(E)	8	#5	33'-10"	—
B1(E)	9	#4	23'-0"	—
S(E)	85	#4	7'-5"	—
S1(E)	8	#4	5'-11"	┌
S2(E)	77	#4	6'-2"	┌
S3(E)	12	#4	5'-10"	┌
S4(E)	12	#4	5'-1"	┌
U(E)	8	#5	4'-6"	┌
U1(E)	4	#4	7'-10"	┌

Note: See sheet 3 of 6 for additional details and Bill of Material.

PD-2736-R

02-17-2017

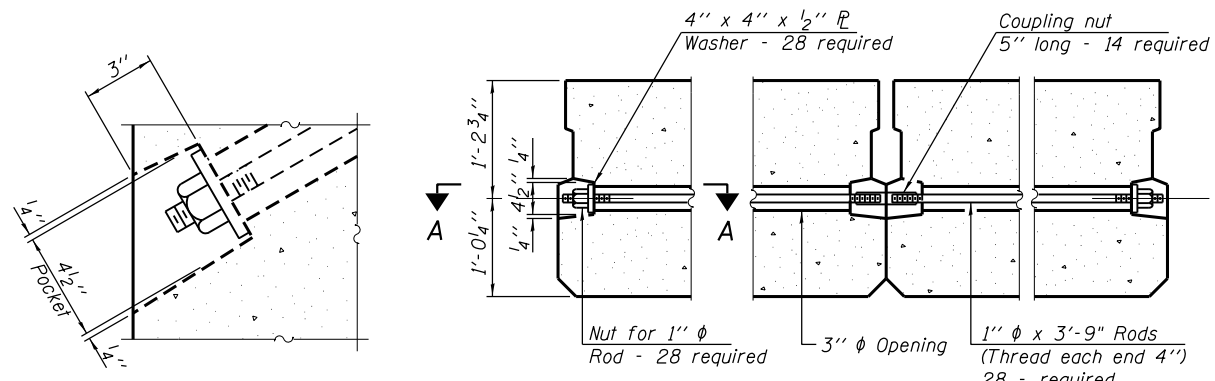
FILE NAME =	USER NAME = ckohlrus	DESIGNED -	REVISED -
Z:\0 Y and K Jobs\5324 TR 17 over Trib. of Macoupin Creek Jersey County\CADD Sheets\BRWN\17-structure.dgn		CHECKED -	REVISED -
PLOT SCALE = 2.0000' / in.		DATE -	REVISED -
PLOT DATE = 4/4/2019			



Veenstra & Kimm, Inc.
 Springfield, IL. Phone: (217)544-8033
 IL. Design Firm No. 184-001939

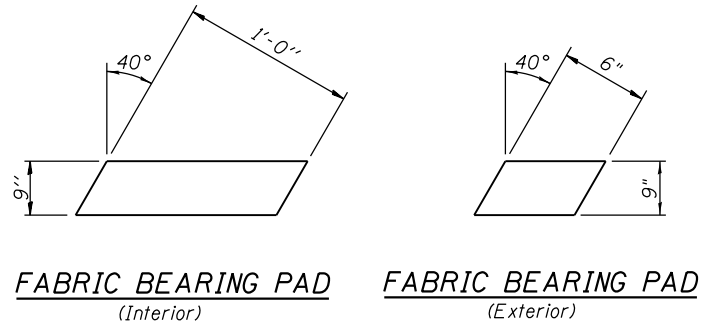
27" x 36" PPC DECK BEAM
STRUCTURE NO. 042-3157
 SCALE: SHEET NO. 2 OF 6 SHEETS STA. TO STA.

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	16-11113-01-BR	JERSEY	22	8
CONTRACT NO. 97702				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



SECTION A-A

TYPICAL TRANSVERSE TIE ASSEMBLY

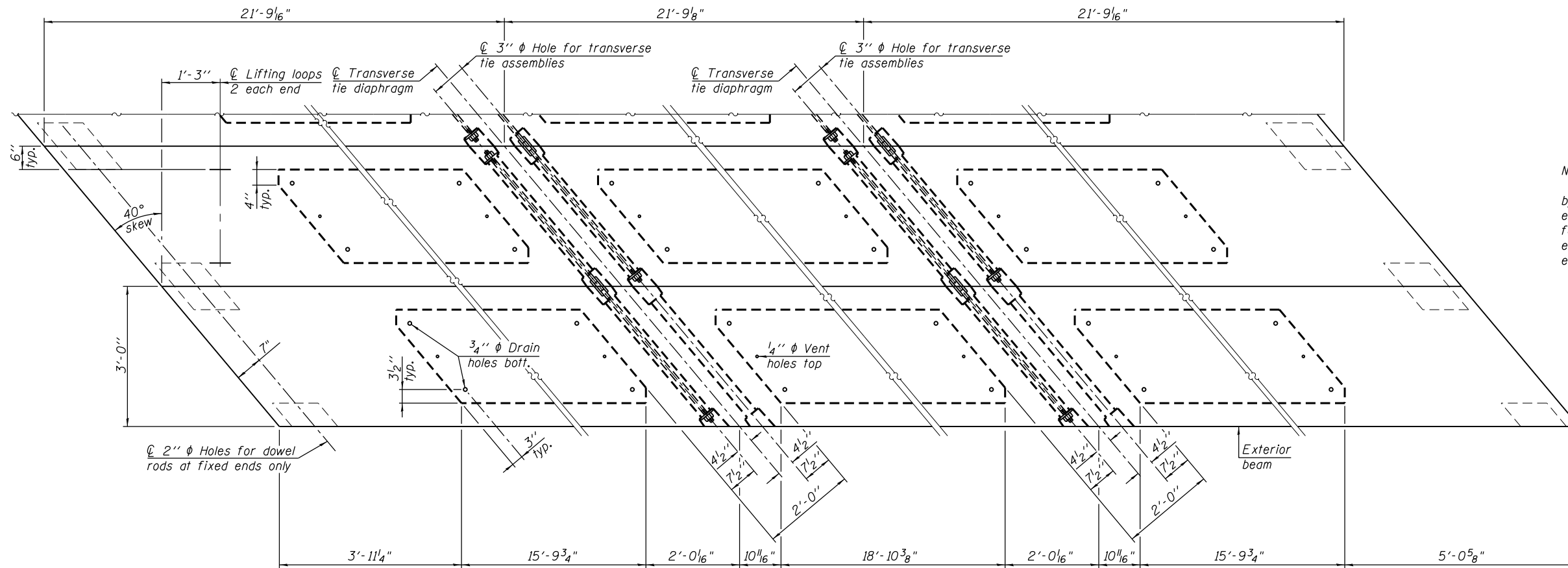


FABRIC BEARING PAD (Interior)

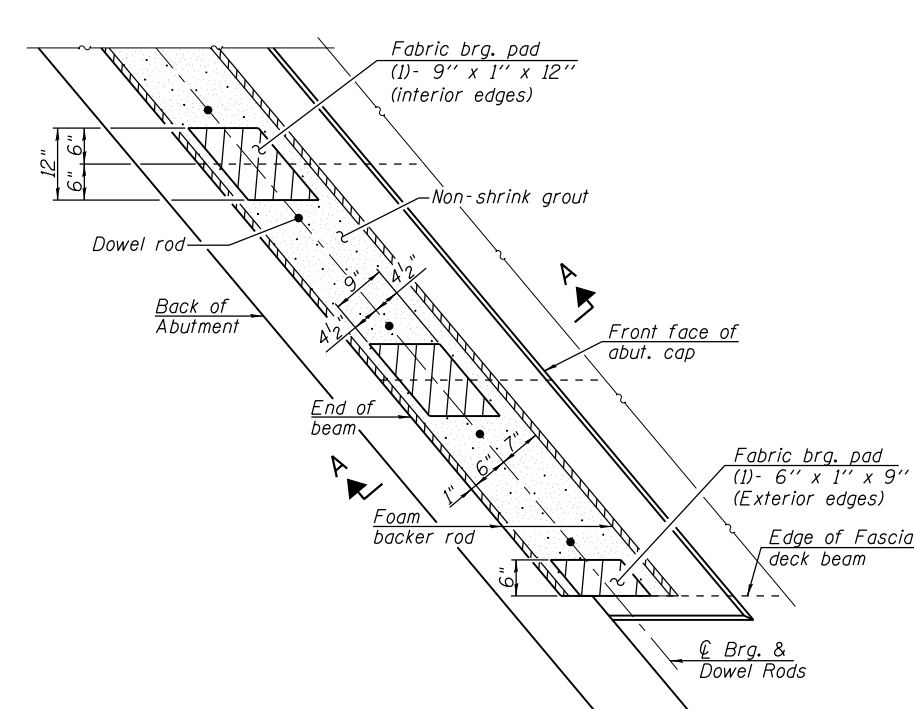
FABRIC BEARING PAD (Exterior)

FIXED

Notes:
All bearing pads shall be 1" thick.



PLAN VIEW



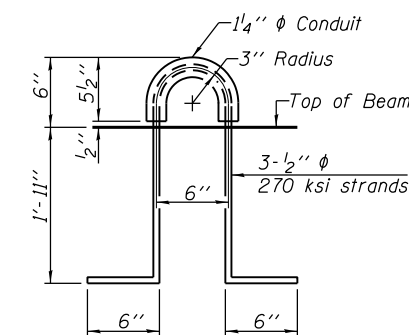
ABUTMENT PLAN

Notes:
The bearing seat surfaces shall be adjusted by shimming the bearing to assure firm and even bearing prior to placement of grout. 2-1/8 inch fabric adjusting shims of the dimensions of the exterior bearing pad shown shall be provided for each bearing.
See Sheet 2 of 6 for Section A-A.

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

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2 inch and the nominal cross-sectional area shall be 0.153 sq. in. The 1 inch rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Two 1/8 inch fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2 inch diameter lifting pin shall be used to engage the lifting loops during handling.
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	1567
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PD-2736-RD

2-17-2017

FILE NAME = Z:\0 Y and K Jobs\5324 TR 17 over Trib. of Macoupin Creek Jersey County\CADD Sheets\BRWN\str-structure.dgn	DESIGNED -	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 4/4/2019	DATE -	REVISED -

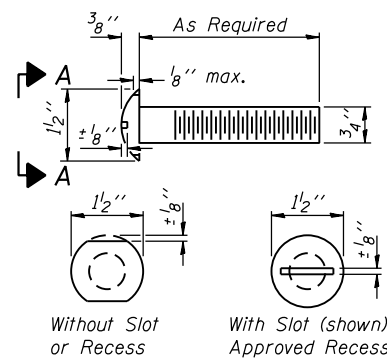


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IL. Design Firm No. 184-001939

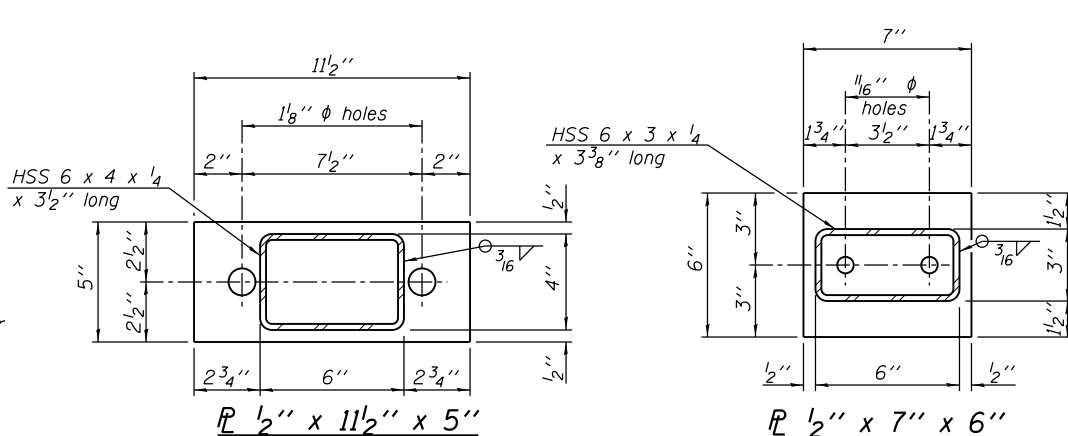
27" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 042-3157

SCALE: SHEET NO. 3 OF 6 SHEETS STA. TO STA.

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	16-11113-01-BR	JERSEY	22	9
CONTRACT NO. 97702				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



VIEW A-A
ROUND HEAD BOLT

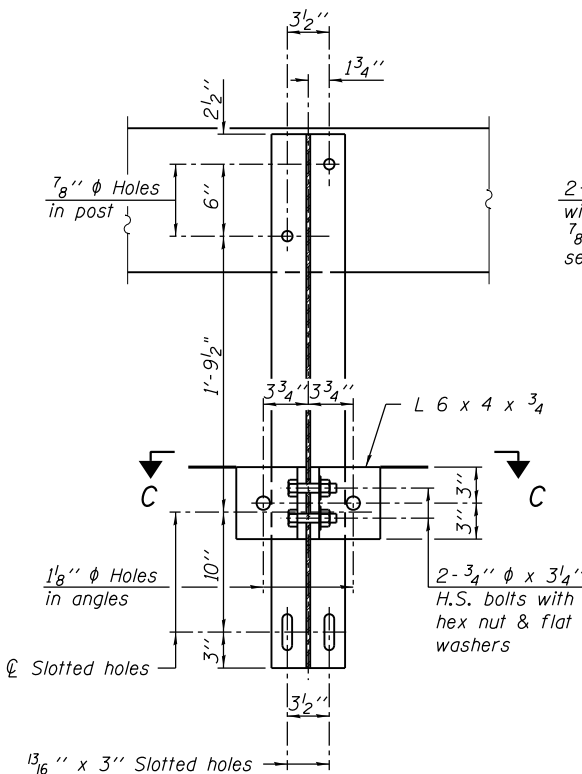


ELEVATION
(Showing Outside Face of Railing)

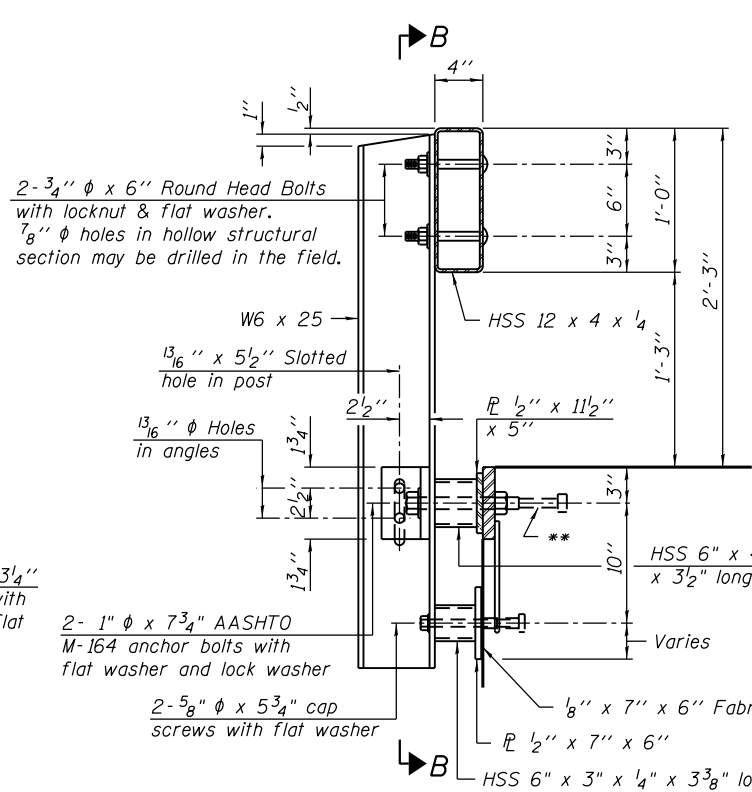
SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1 1/4"	1'-8"	2"	4"	

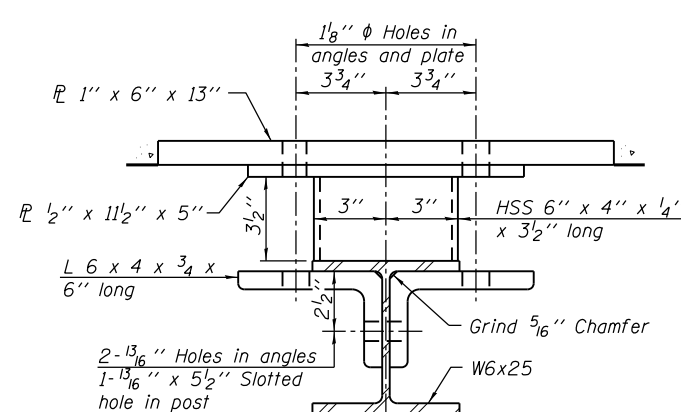
T = Total movement at expansion joint as shown on the design plans.



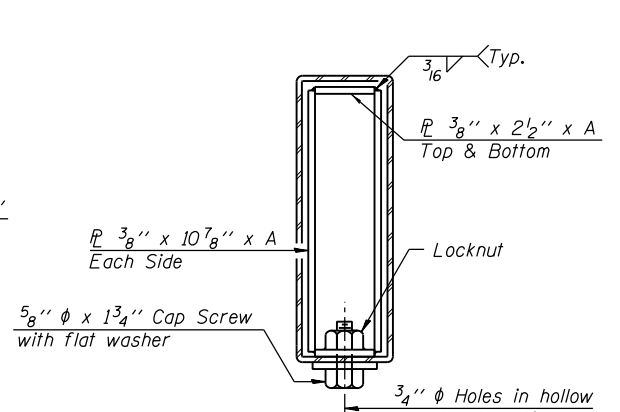
SECTION B-B



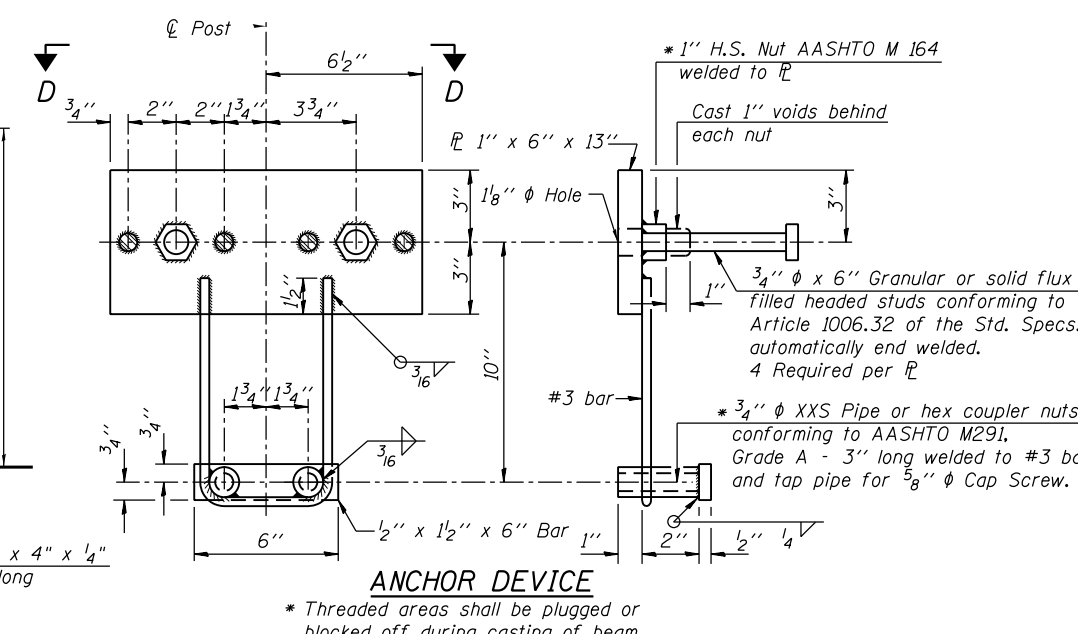
SECTION AT RAILING POST



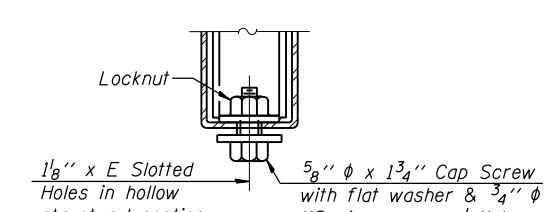
SECTION C-C



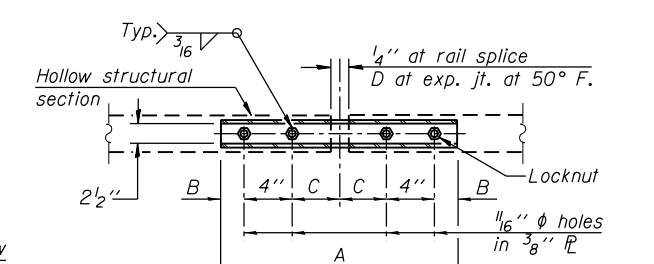
SECTIONS AT RAIL SPLICE



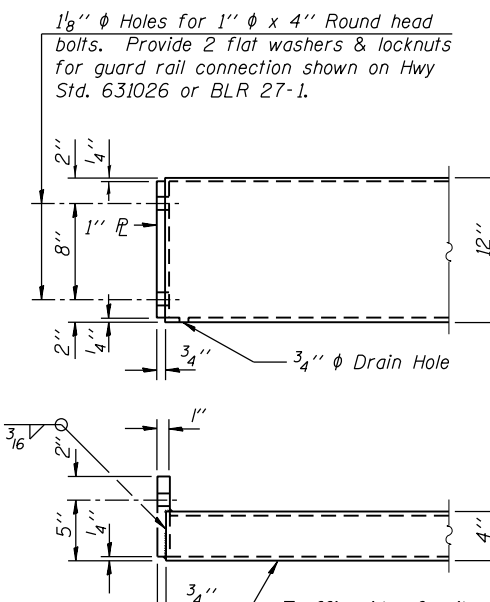
ANCHOR DEVICE



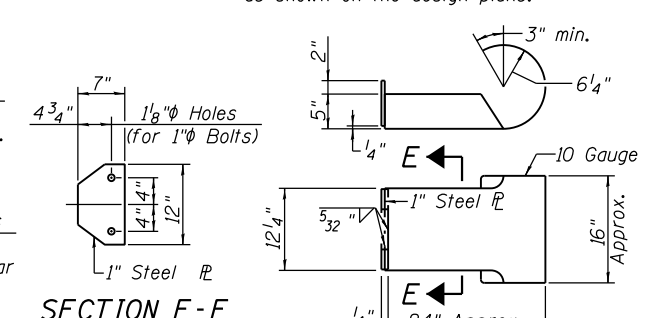
RAIL SPLICE CONNECTION AT EXPANSION JT. TYPICAL



PLAN-BOTT. SPLICE



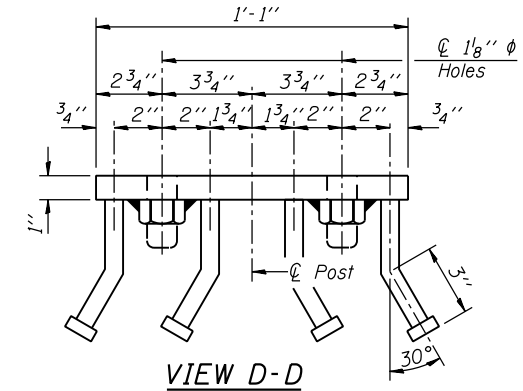
END OF RAIL DETAILS



SECTION E-E

CURLED END SECTION DETAILS (4 Required)

Notes:
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S1.
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device. The anchorage studs may be bent down 1/2" to accommodate the top reinforcement bar placement.



BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S1	Foot	134

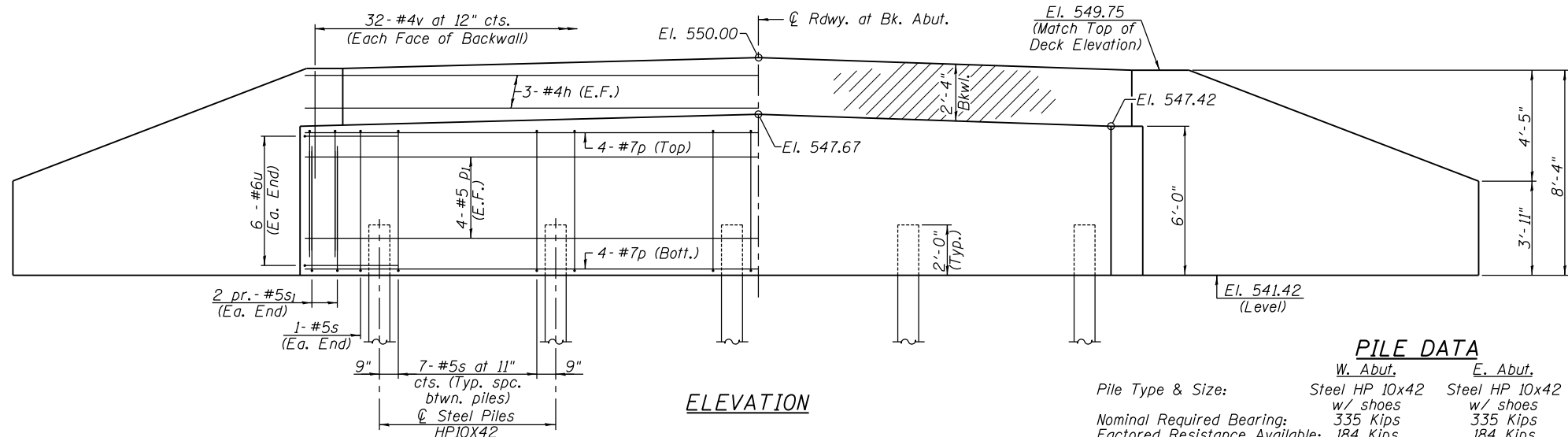
R-23A 11-22-2016 (10'-9" Maximum Post Spacing)

FILE NAME =	USER NAME = ckohlrus	DESIGNED -	REVISED -
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PLOT SCALE = 10.0000' / in.		DATE -	REVISED -
PLOT DATE = 4/4/2019			

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033
IL Design Firm No. 184-001939

SCALE:	SHEET NO. 4 OF 6 SHEETS	STA.	TO STA.
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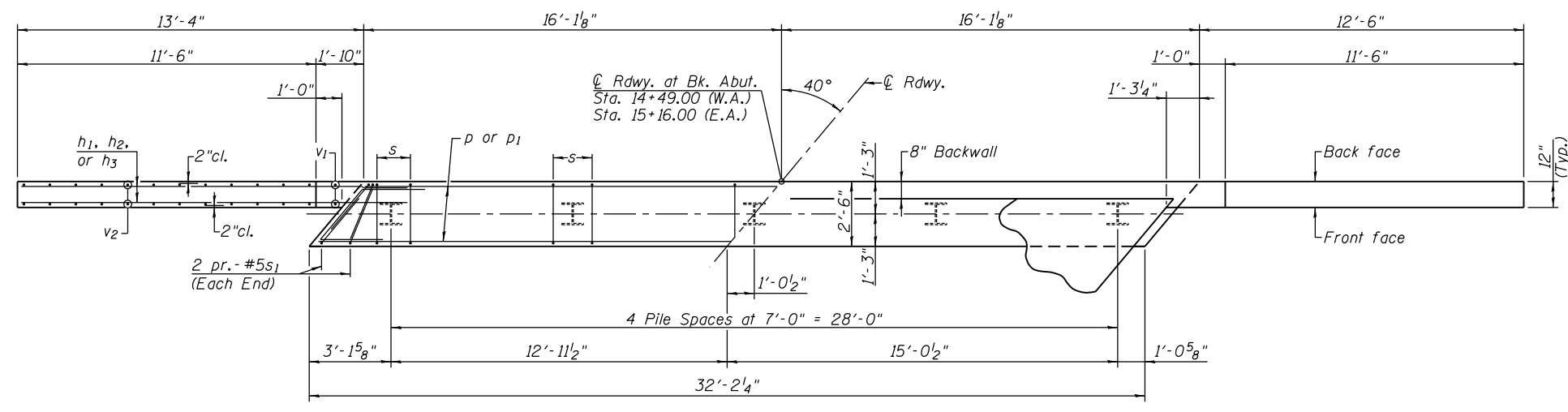
T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	16-11113-01-BR	JERSEY	22	10
CONTRACT NO. 97702				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



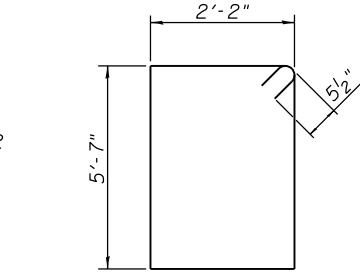
ELEVATION

PILE DATA

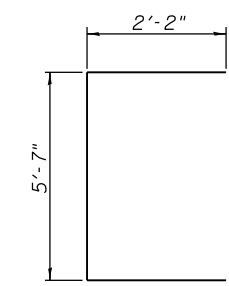
	W. Abut.	E. Abut.
Pile Type & Size:	Steel HP 10x42 w/ shoes	Steel HP 10x42 w/ shoes
Nominal Required Bearing:	335 Kips	335 Kips
Factored Resistance Available:	184 Kips	184 Kips
Estimated Pile Length:	56'	60'
Number of Production:	5	4
Number of Test Piles:	0	1



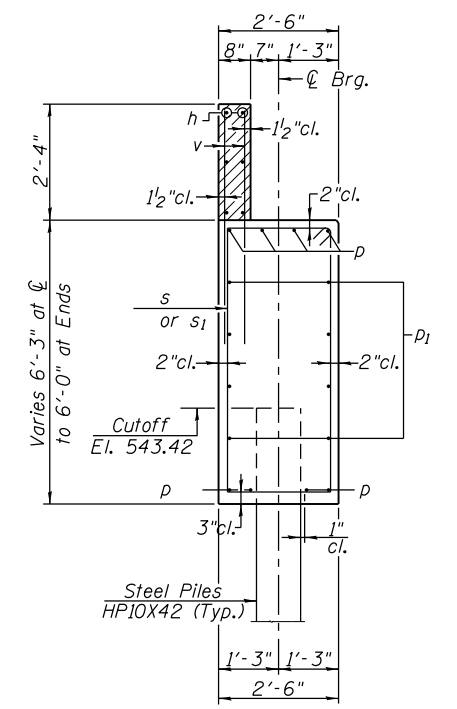
PLAN



BAR s



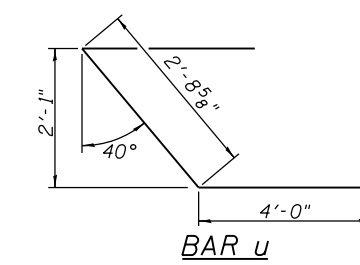
BAR s1



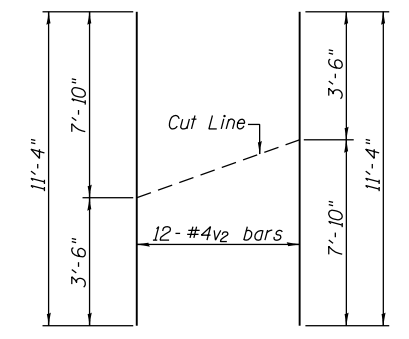
SECTION THRU ABUTMENT (At Right Angles)

NOTES

All exposed edges shall have standard 3/4 inch chamfer. Space reinforcement in cap to miss beam anchor dowels. Wingwalls and Backwalls may, at the contractor's option, be cast monolithically. Hatched area and wingwalls shall be poured after deck beams are anchored in place. For details of piles see Sheet 6 of 6.



BAR u



v2 BAR CUTTING DIAGRAM

Order bars full length; Layout in field according to diagram. Cut bars along cut line. Use remainder of each bar in opposite face.

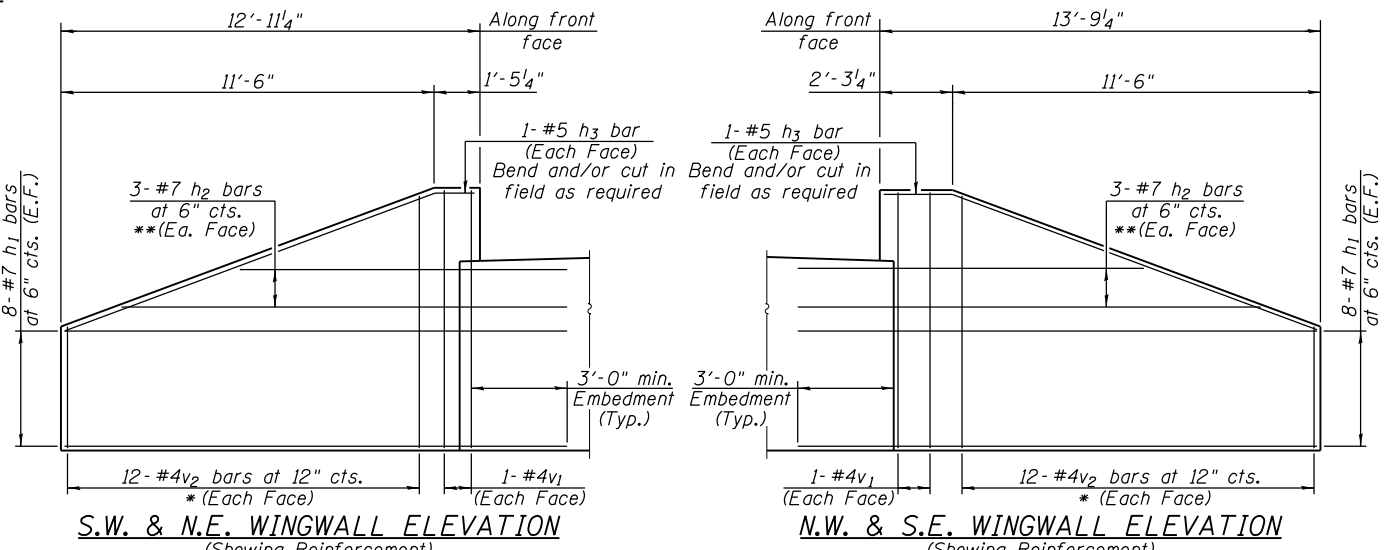
BILL OF MATERIAL TWO ABUTMENTS

BAR	NO.	SIZE	LENGTH	SHAPE
h	12	#4	35'-0"	—
h1	64	#7	16'-2"	—
h2	12	#7	15'-3"	—
h3	8	#5	14'-2"	—
p	16	#7	31'-10"	—
p1	16	#5	31'-10"	—
s	60	#5	16'-5"	□
s1	16	#5	9'-11"	□
u	24	#6	10'-9"	▤
v	128	#4	3'-8"	—
v1	8	#4	7'-11"	—
v2	48	#4	11'-4"	—
Structure Excavation				Cu. Yd. 191.0
Concrete Structures				Cu. Yd. 52.5
Reinforcement Bars				Pound 6760
Furnishing Steel Piles HP10X42				Foot 520
Driving Piles				Foot 520
Test Pile Steel HP10X42				Each 1
Pile Shoes				Each 10

EXTRA BARS FOR TEST SAMPLES

BAR	NO.	SIZE	LENGTH	SHAPE
v	1	#4	3'-8"	—
s1	1	#5	9'-11"	□
u	1	#6	10'-9"	▤
p	1	#7	31'-10"	—

These bars shall be identical to and delivered with the bars of the same mark listed on the abutment sheets. One bar of each of these marks will be selected by the engineer to be used as a test sample. This chart assumes that all bars of the same size on the job will have the same heat numbers. If bars of the same size on the job have different heat numbers then the Contractor shall supply additional bars from other heat numbers for sampling by the Engineer at no additional cost. The cost to furnish these extra bars shall be included in the contract unit price per pound for reinforcement bars and no additional compensation will be allowed.

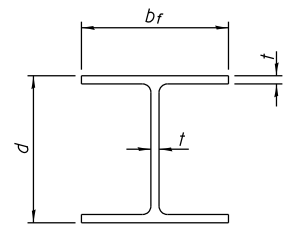


S.W. & N.E. WINGWALL ELEVATION (Showing Reinforcement)

N.W. & S.E. WINGWALL ELEVATION (Showing Reinforcement)

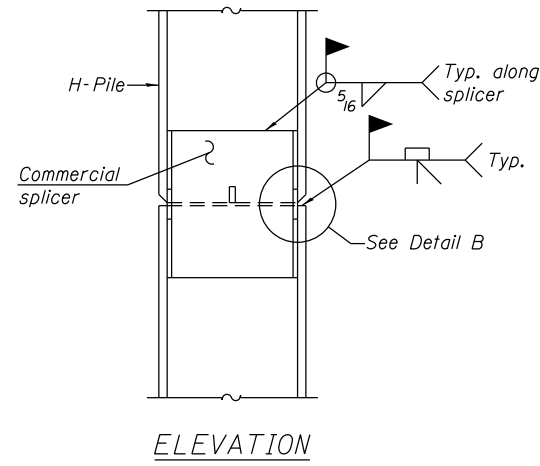
* See v2-bar cut diagram
** Field cut as required

* See v2-bar cut diagram
** Field cut as required

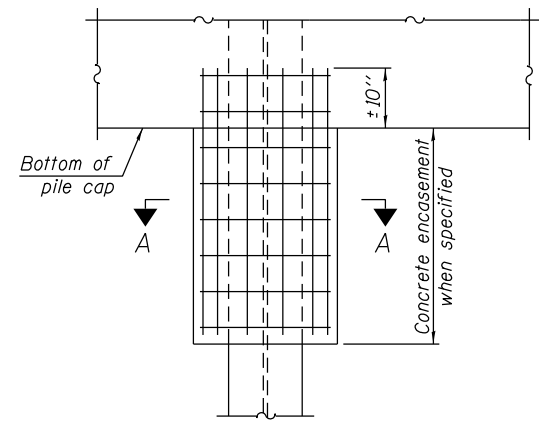


STEEL PILE TABLE

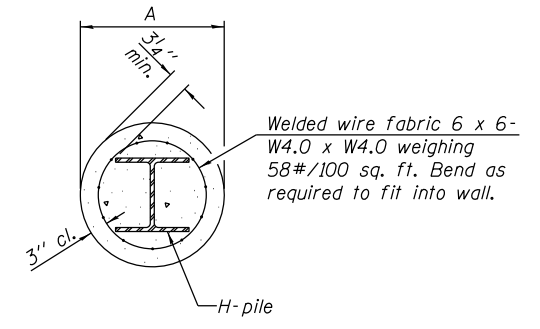
Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53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



ELEVATION

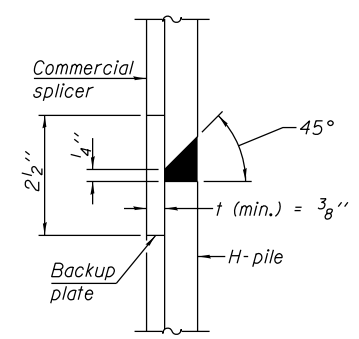


ELEVATION

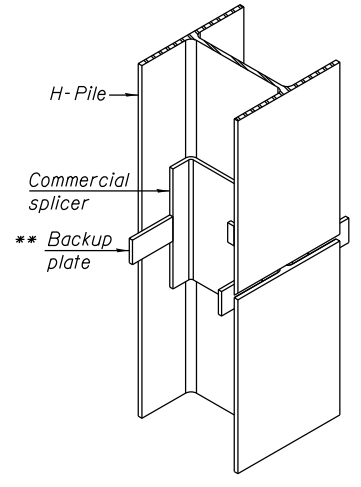


SECTION A-A

INDIVIDUAL PILE
CONCRETE ENCASUREMENT
(Forms for encasement may be omitted when soil conditions permit).

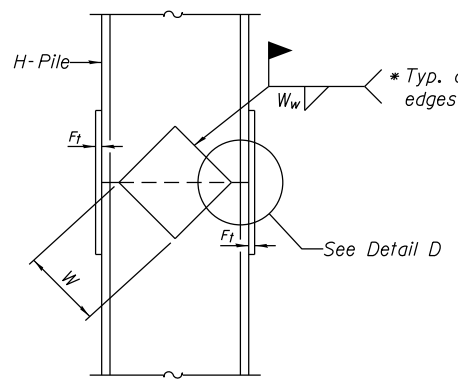


DETAIL "B"

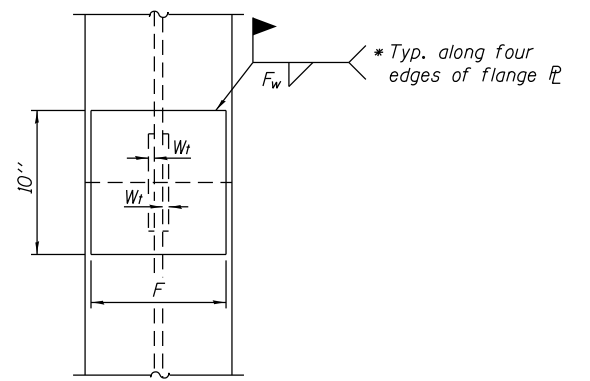


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



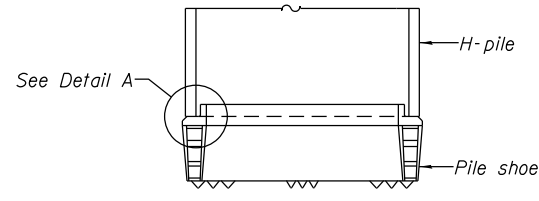
ELEVATION



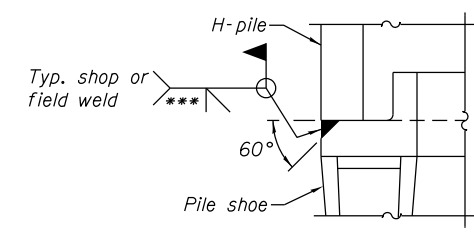
END VIEW

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

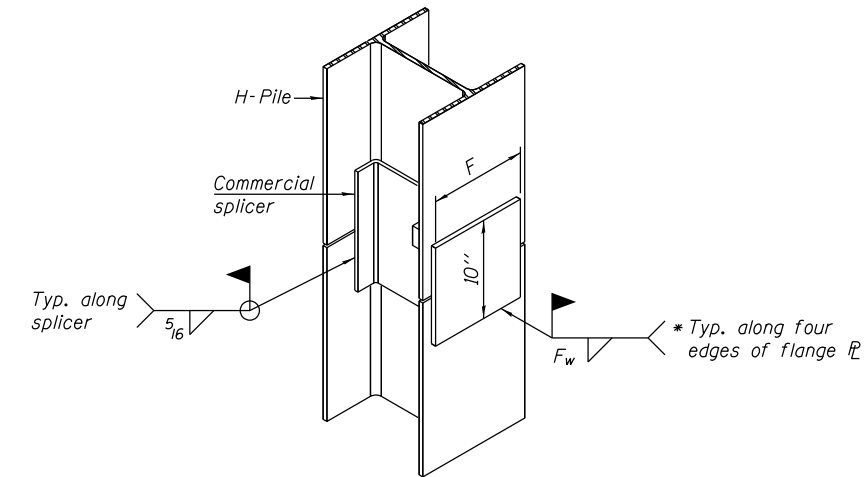


ELEVATION



DETAIL A

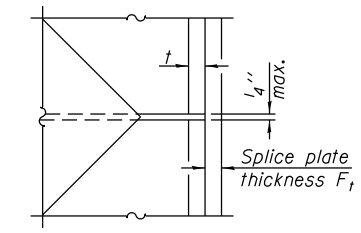
H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).



DETAIL D

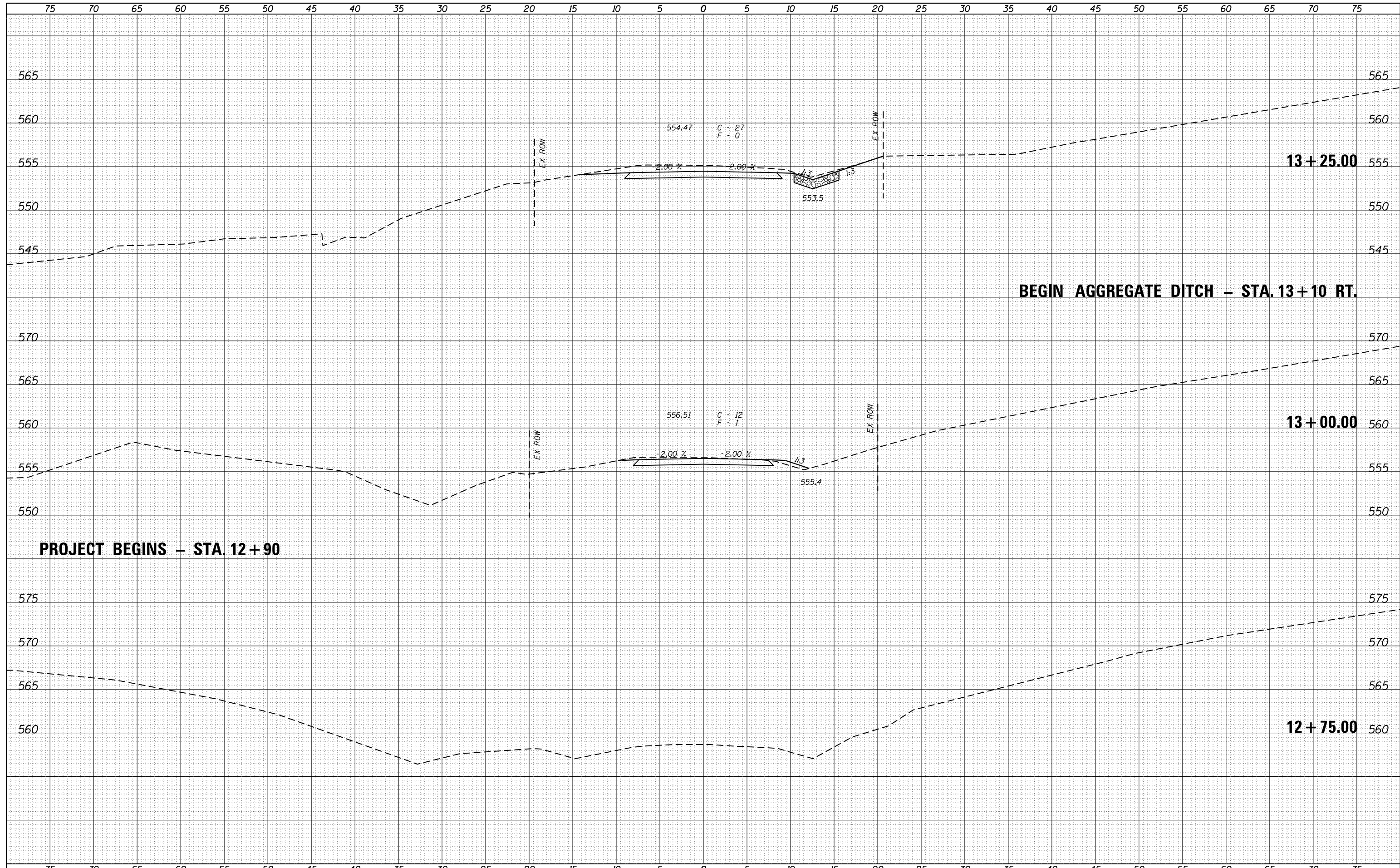
WELDED PLATE FIELD SPLICE

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

F-HP 2-17-2017

DATE	
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FINAL SURVEY	
NOTE BOOK	
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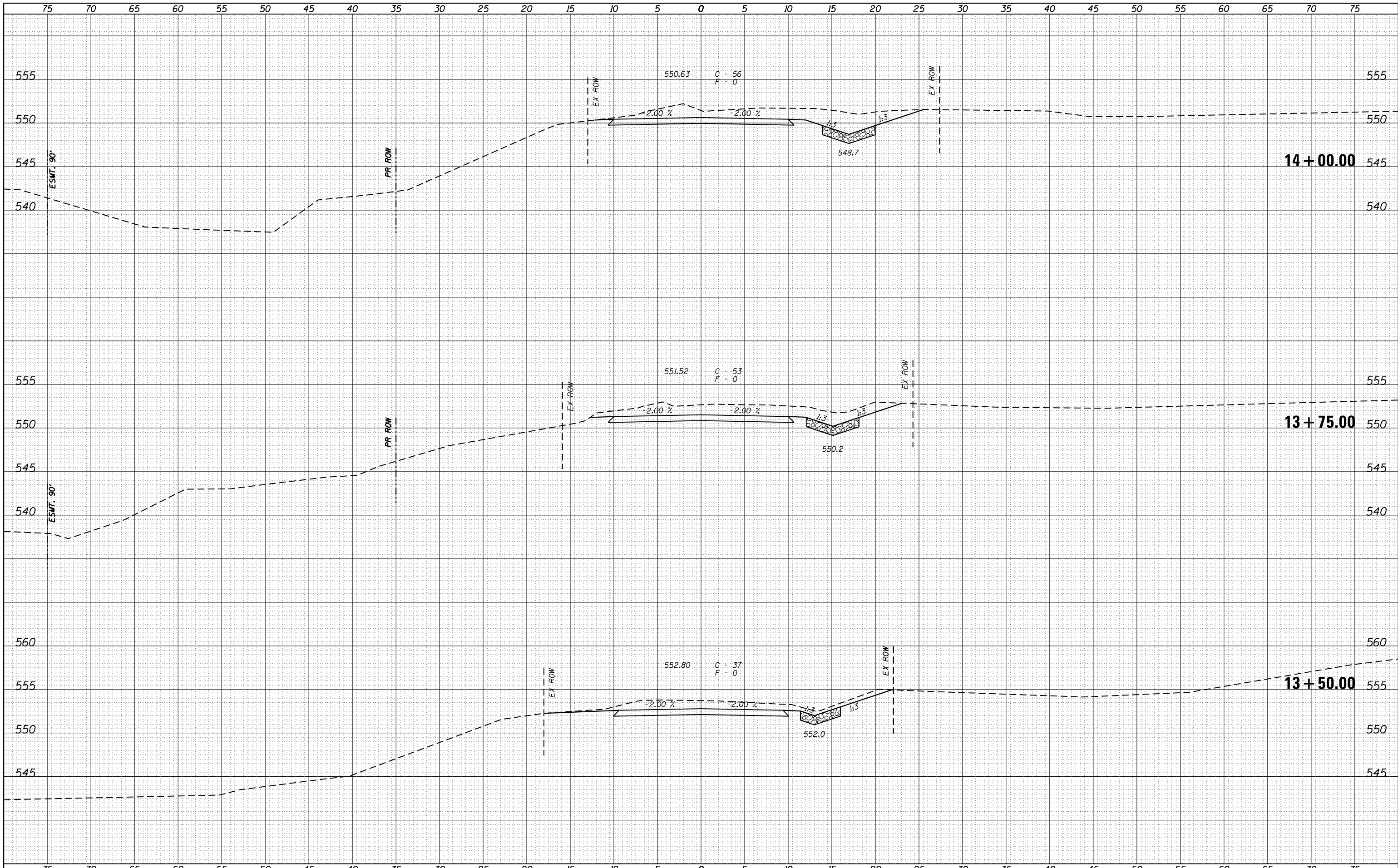
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME =	USER NAME = ckohlrus	DESIGNED -	REVISED -	Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	CROSS SECTIONS SCALE: 1" = 5' SHEET NO. 1 OF 6 SHEETS STA. 12+75.00 TO STA. 13+25.00			T.R. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -	REVISED -		CONTRACT NO. 97702							
PLOT DATE = 4/4/2019	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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TEMPLATE	
AREAS	
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FILE NAME =	USER NAME = ckohlrus	DESIGNED -	REVISD -
Z:\0 V and K Jobs\5324 TR 17 over Trib. of Macopin Creek Jersey County\CADD Sheets\5324-17	DATE	CHECKED -	REVISD -
		DATE	REVISD -



Veenstra & Kimm, Inc.
 Springfield, IL. Phone: (217)544-8033
 IL. Design Firm No. 184-001939

CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 2 OF 6 SHEETS STA. 13+50.00 TO STA. 14+00.00

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT

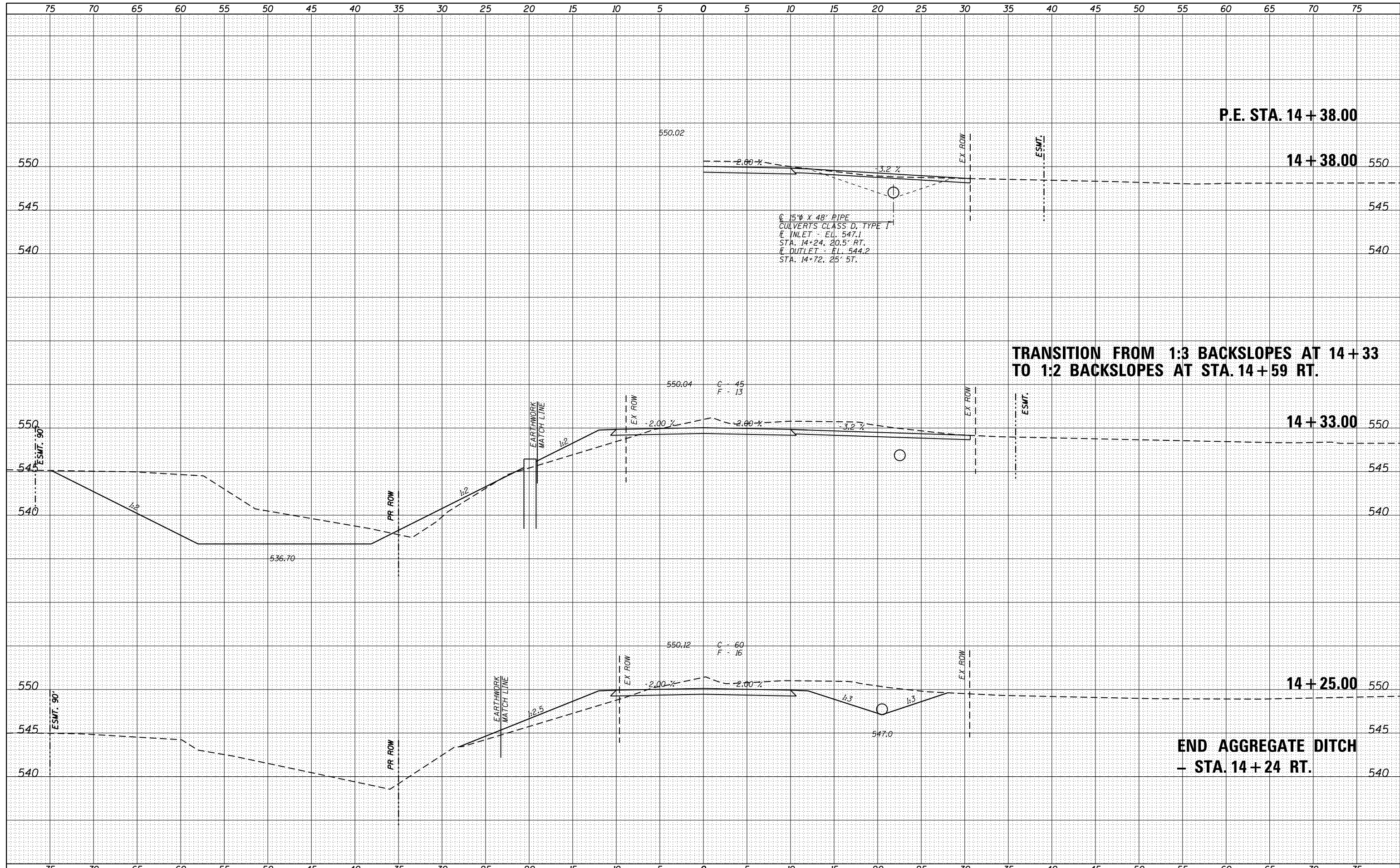
14 + 00.00

13 + 75.00

13 + 50.00

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

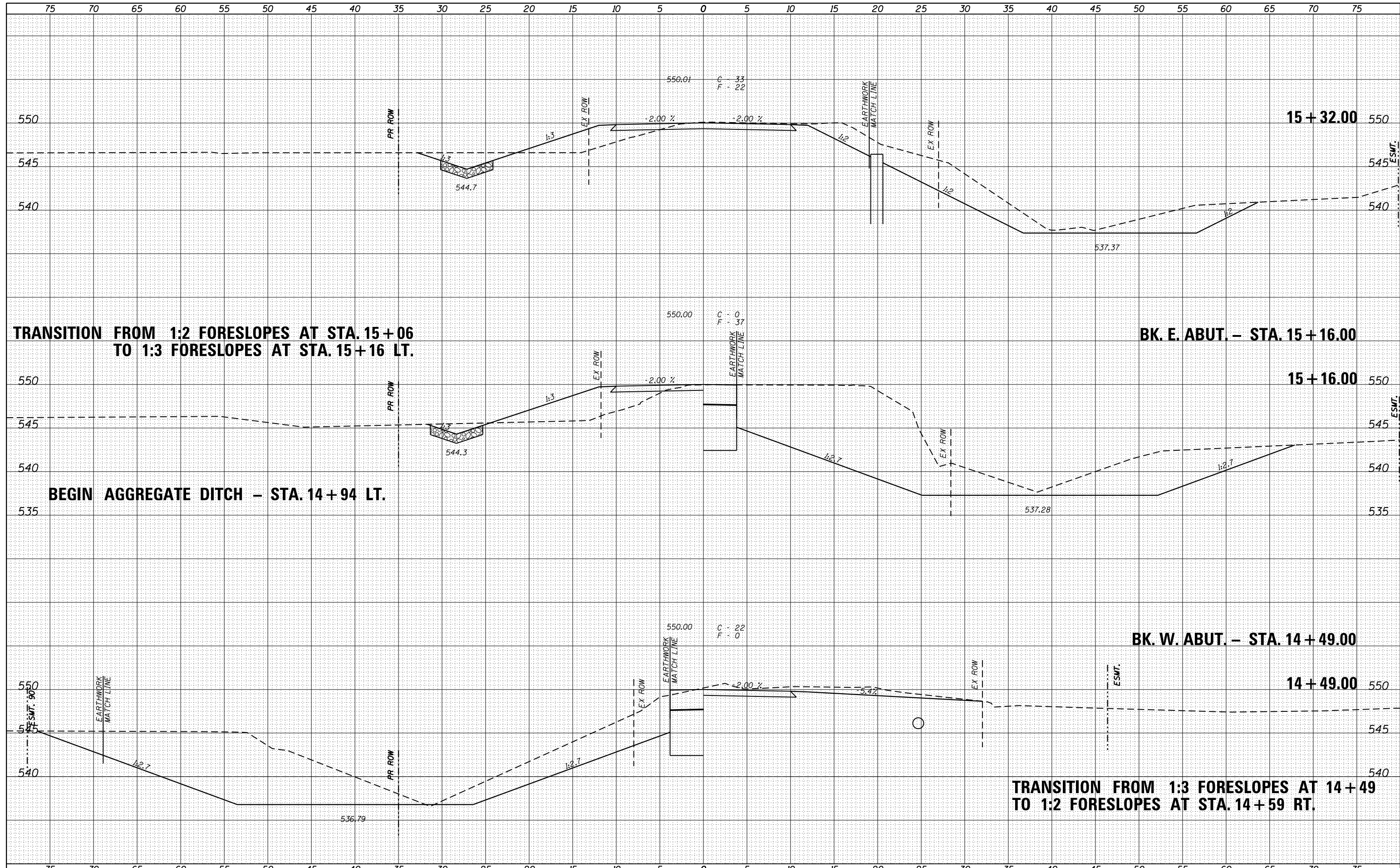
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



FILE NAME =	USER NAME = ckohlrus	DESIGNED -	REVISD -	Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	CROSS SECTIONS			T.R. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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NOTE BOOK	PLOTTED
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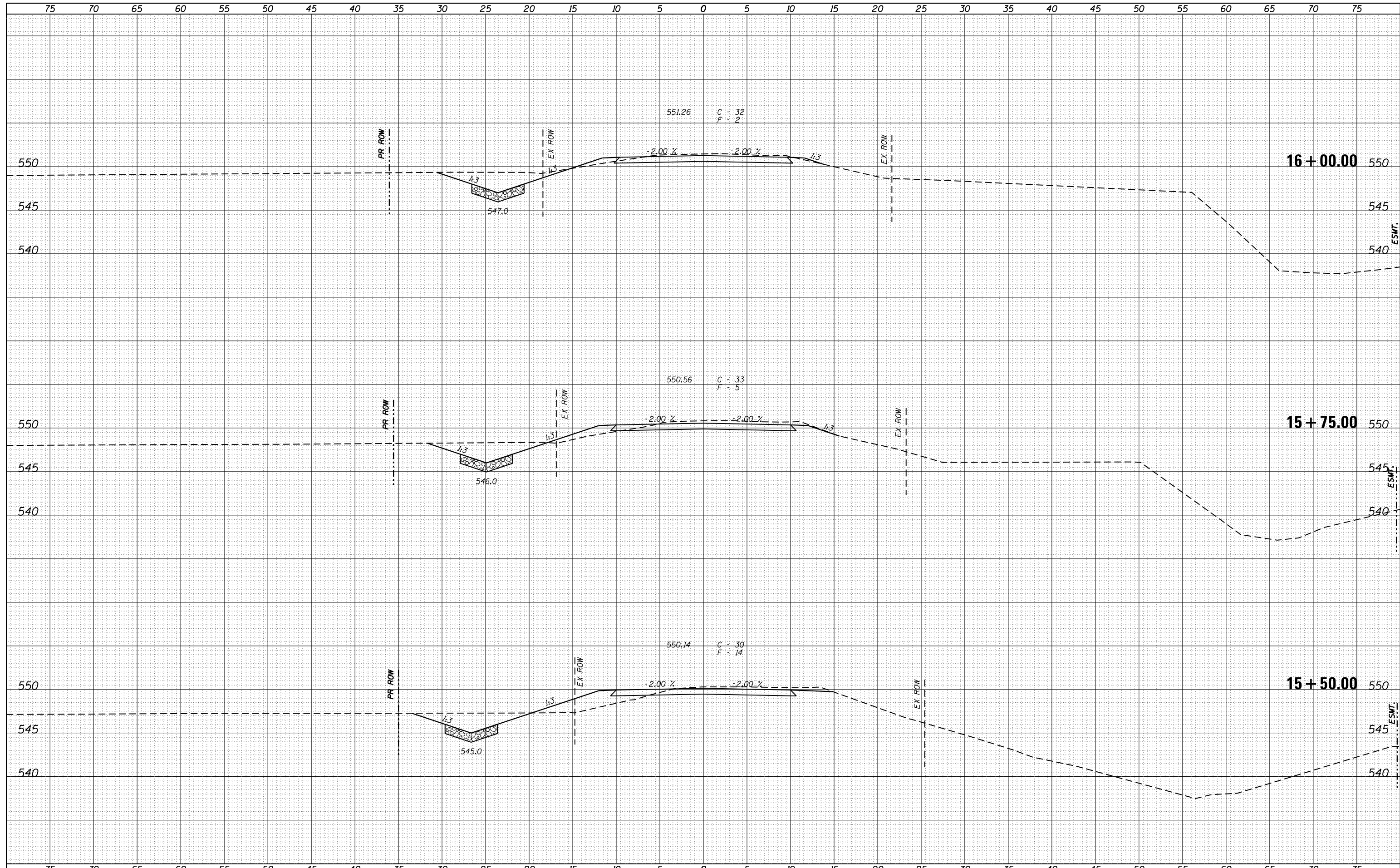
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME =	USER NAME = ckohlrus	DESIGNED -	REVISED -	Venstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	CROSS SECTIONS SCALE: 1" = 5' SHEET NO. 4 OF 6 SHEETS STA. 14+49.00 TO STA. 15+32.00		T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 4/4/2019	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

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	AREAS CHECKED

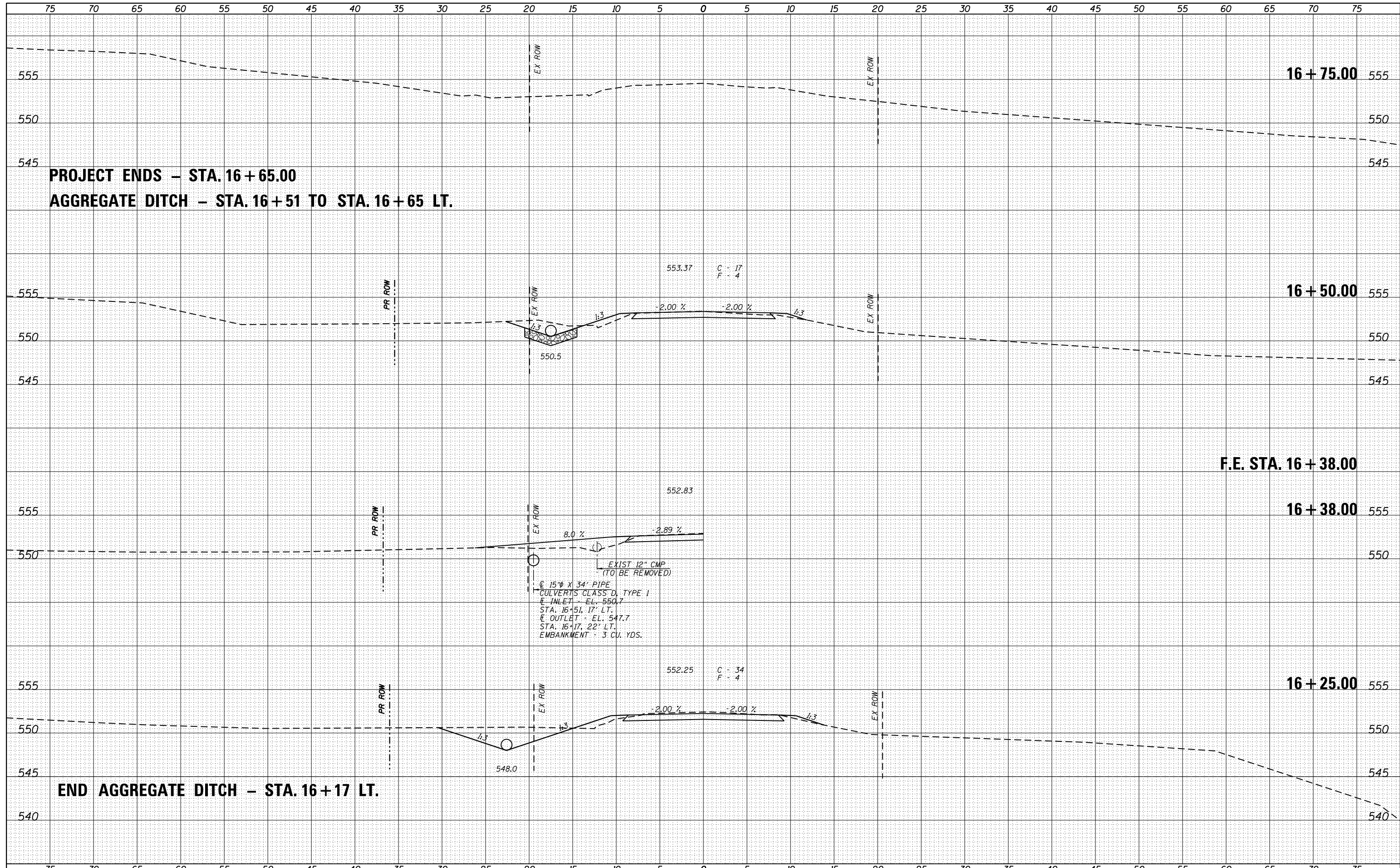
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FILE NAME =	USER NAME = ckohlrus	DESIGNED -	REVISED -	Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	CROSS SECTIONS		T.R. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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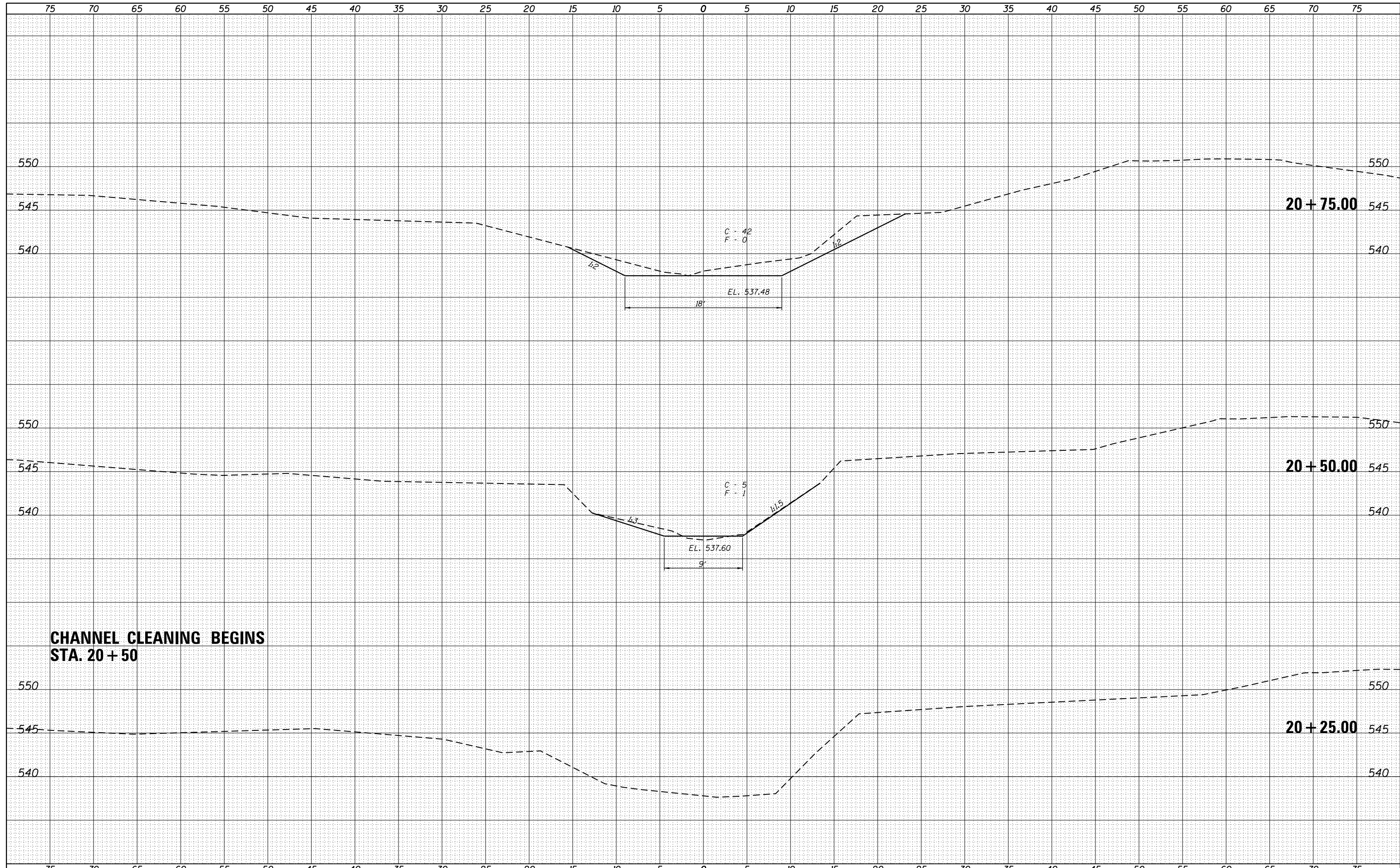
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FILE NAME =	USER NAME = ckohlrus	DESIGNED -	REVISD -	Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	CROSS SECTIONS SCALE: 1" = 5' SHEET NO. 6 OF 6 SHEETS STA. 16+25.00 TO STA. 16+75.00			T.R. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLLOT DATE = 4/4/2019	DATE -	REVISD -	REVISD -		CONTRACT NO. 97702			ILLINOIS FED. AID PROJECT				

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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NOTE BOOK	PLOTTED
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	AREAS CHECKED

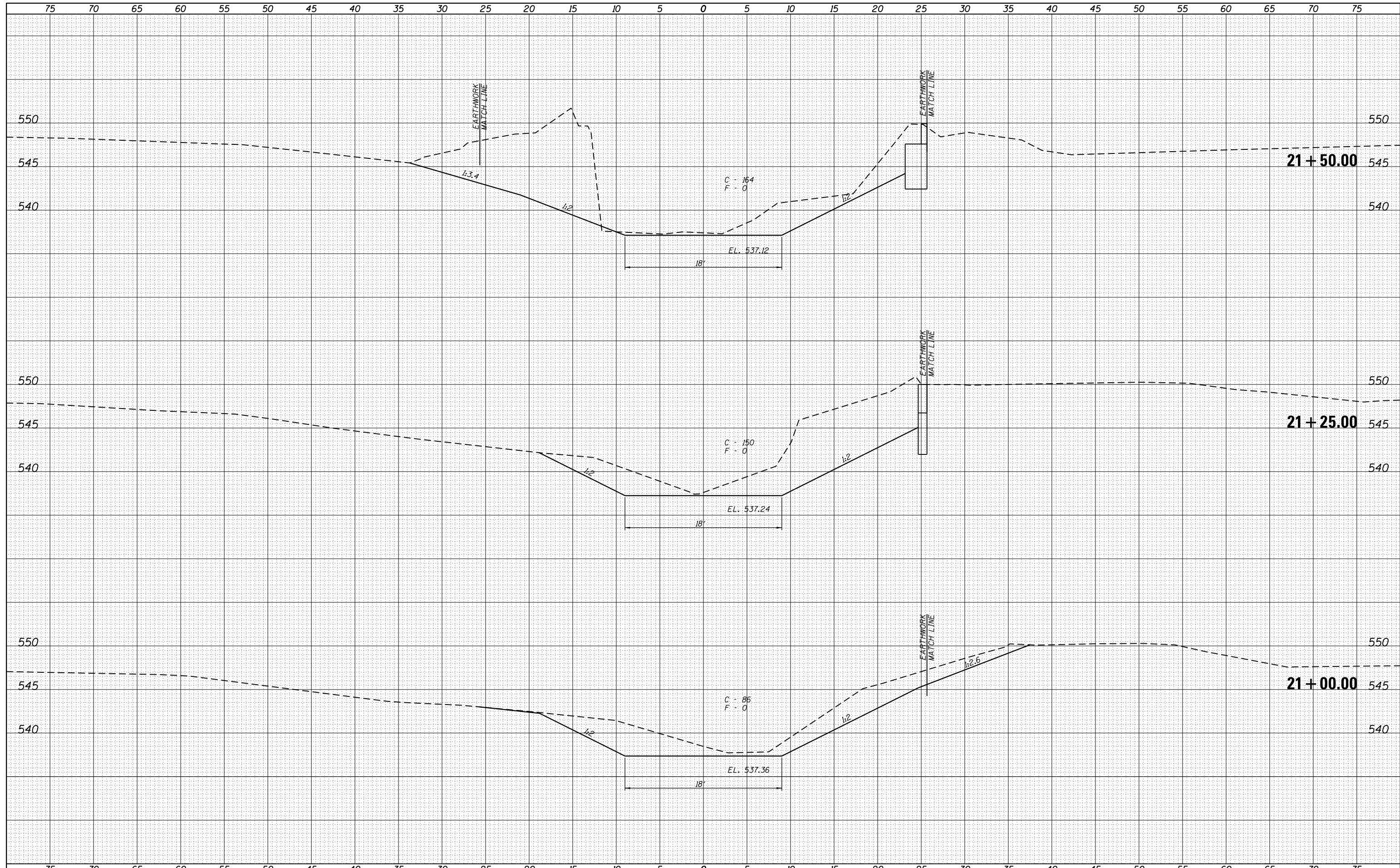


**CHANNEL CLEANING BEGINS
STA. 20 + 50**

FILE NAME =	USER NAME = ckohlrus	DESIGNED -	REVISD -	 Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	CROSS SECTIONS - CHANNEL		T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 4/4/2019	DATE -	REVISD -	REVISD -		SCALE: 1" = 5'	SHEET NO. 1 OF 4 SHEETS	STA. 20+25.00 TO STA. 20+75.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

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

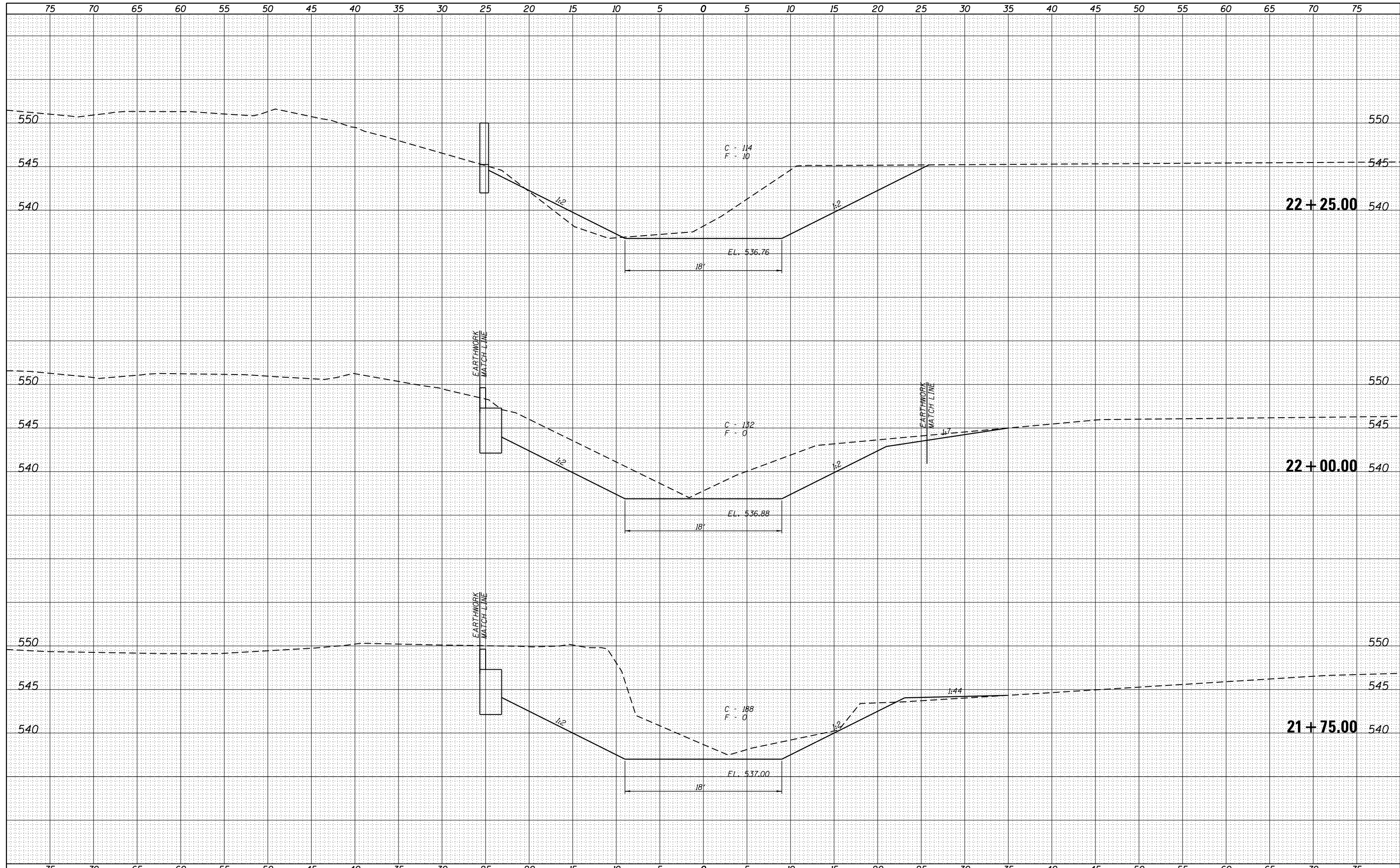
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BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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FILE NAME = Z:\0 V and K Jobs\5324 TR 17 over Trib. of Macopin Creek Jersey County\CADD Sheets\5324-17	USER NAME = ckohlrus	DESIGNED -	REVISÉD -	 Venstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	CROSS SECTIONS - CHANNEL		T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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							FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		

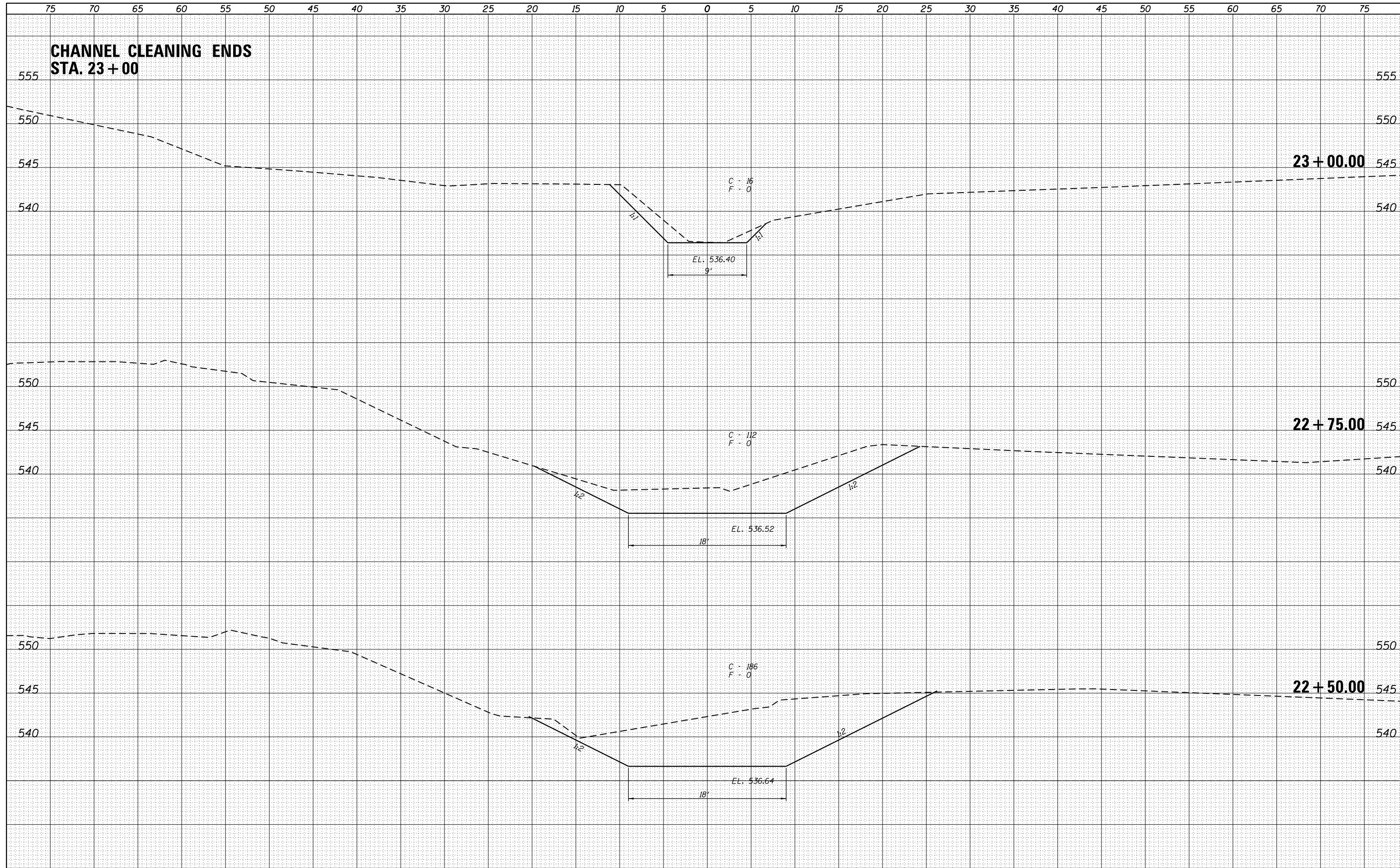
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NOTE BOOK	PLOTTED
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	AREAS
	CHECKED

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



FILE NAME =	USER NAME = ckohlrus	DESIGNED -	REVISIED -	 Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	CROSS SECTIONS - CHANNEL		T.R. SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE: 4/4/2019			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

**CHANNEL CLEANING ENDS
STA. 23 + 00**



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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

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ORIGINAL SURVEY	
NOTE BOOK	
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