

INDEX OF SHEETS 01-15-2016 LETTING ITEM 094 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

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PLANS FOR PROPOSED IMPROVEMENTS TO TRAIL

ITEP FUNDING
 CITY OF KANKAKEE
 RIVERFRONT TRAIL PHASE 2B
 SECTION 10-00276-01-BT
 PROJECT NO. TE-00D3(090)
 JOB NO. C-93-073-15
 KANKAKEE COUNTY



CONTRACT NO. 87623
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
 *10-00276-01-BT

Tyson ENGINEERING
 367 South Schuyler Avenue
 Kankakee, Illinois 60901
 Phone (815) 932-7406

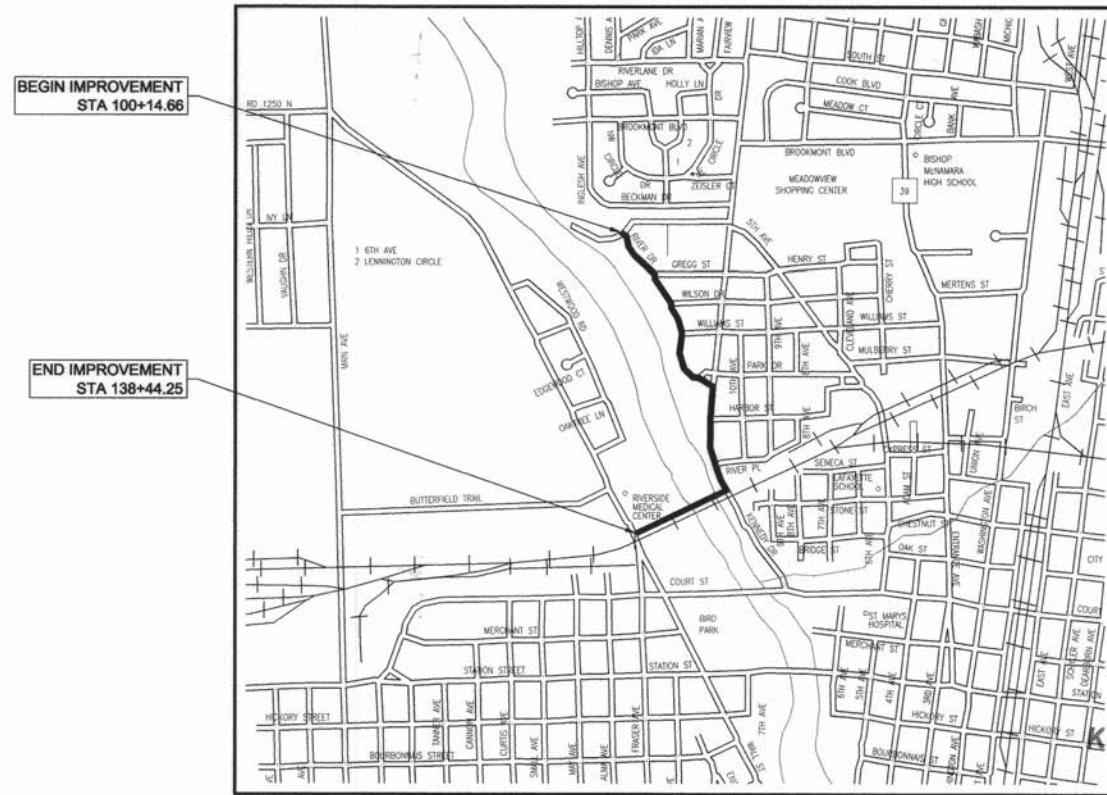
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REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	03/21/15	CDB	PER IDOT REVIEW
2	10/20/15	NRD	PER CITY

STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 424001-08 PERPENDICULAR CURB RAMPS FOR SIDEWALKS
- 424011-02 CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15'(4.5m) AWAY
- 701101-04 OFF-ROAD OPERATIONS, MULTILANE, 15'(4.5m) TO 24"(600mm) FROM PAVEMENT EDGE
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701427-03 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS ≤ 40 MPH
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701606-10 URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701801-05 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-04 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 720011-01 METAL POSTS FOR SIGNS, MARKERS, AND DELINEATORS
- 720021-02 SIGN PANELS, EXTRUDED ALUMINUM TYPE
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPE 'A' AND 'B' METAL POSTS (FOR SIGNS & MARKERS)
- 780001-05 TYPICAL PAVEMENT MARKINGS

DESIGNATED BIKE ROUTE ROADS			
ROAD	AVERAGE DAILY TRAFFIC	SPEED LIMIT	DESIGN SPEED
RIVER DRIVE	150	30	30
KENNEDY DRIVE	22,600	35	35

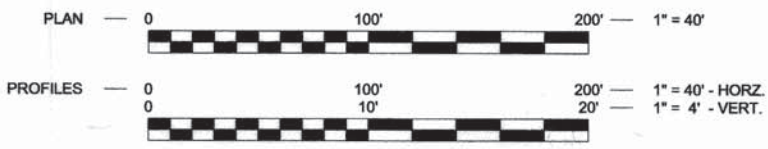


LOCATION MAP
 NOT TO SCALE

SECTIONS 31, TOWNSHIP 31 NORTH, RANGE 12 EAST

GROSS LENGTH OF IMPROVEMENT = 3,829.59 FEET = 0.725 MILES
 NET LENGTH OF IMPROVEMENT = 3,829.59 FEET = 0.725 MILES

STANDARD SCALES



CALL J.U.L.I.E. BEFORE YOU DIG
 (Joint Utility Locating Information For Excavators)
 PH.# 1-800-892-0123

PREPARED IN ACCORDANCE WITH THE POLICIES OF THE LOCAL ROADS MANUAL

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

APPROVED 10-20, 20 15
Dani Caproni
 MAYOR, CITY OF KANKAKEE

PASSED 10-21, 20 15
Dan R. D.
 DISTRICT 3 ENGINEER OF LOCAL ROADS AND STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW 10-21, 20 15
Paul A. Lotze
 DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER



STEVEN R. MCBURNEY
 STEVEN R. MCBURNEY P.E.# 062-058252 DATE 10-20-15
 EXPIRATION DATE OF P.E. LICENSE: 11-30-15

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REVISIONS				
NO.	DATE	BY	GENERAL DESCRIPTION	SHEETS CHANGED
1	03/21/15	CDB	PER IDOT REVIEW	ALL
2	10/20/15	NRD	PER CITY	ALL

COVER SHEET

PROPOSED IMPROVEMENTS FOR
**RIVERFRONT TRAIL
 PHASE 2B**
 KANKAKEE, ILLINOIS

SECTION
 10-00276-01-BT

DATE: 02/16/2015 JOB NO. E10054
 SCALE: N/A FILE NO.
 DRAWN BY: MRG SHEET
 CHECKED BY: SRM **1**
 OF 25

GENERAL NOTES

THE WORK UNDER THIS CONTRACT CONSISTS OF THE FOLLOWING:

- DATUM USED FOR SURVEY IS U.S.G.S.
- ALL STATIONING IS ALONG CENTERLINE OF PATH, EXCEPT AS OTHERWISE NOTED.
- NO MULTI-UNIT VEHICLES SHALL BE USED ON OR ALONG THE PATH.
- THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATION FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- EXCEPT AS NOTED IN THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.
- ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR WILL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
- ALL SAWCUTTING OF EXISTING PAVEMENT SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE SIDEWALK CONSTRUCTION AND NO COMPENSATION WILL BE ALLOWED. THE MINIMUM SAW CUT DEPTH IN THE PAVEMENT SHALL BE 2 INCHES, UNLESS OTHERWISE SPECIFIED IN A DETAIL IN THE PLANS.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE.
- ALL REQUIRED SAW CUTTING SHALL BE INCLUDED IN THE COST OF COMBINATION CURB AND GUTTER REMOVAL, SIDEWALK REMOVAL, AND DRIVEWAY PAVEMENT REMOVAL PAY ITEMS INVOLVED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- FOR NEW CONSTRUCTION, PLACE SIDEWALK RAMPS FOR THE HANDICAPPED IN ACCORDANCE WITH APPLICABLE HIGHWAY STANDARD AT ALL LOCATIONS WHERE PROPOSED SIDEWALK ABUTS CURB AT STREET ENTRANCES.
- THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO COMPENSATION WILL BE ALLOWED.
- ABANDONED UNDERGROUND UTILITY ITEMS WHICH CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS, OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED.
- ALL WATER MAINS SHALL BE PROTECTED FROM CONTAMINATION. STATE CODE SECTION 653.119 EXPLAINS THE METHODS OF PROTECTION AND WHEN THEY ARE REQUIRED.
- THERMOPLASTIC PAVEMENT MARKINGS AND PAINT STRIPING QUANTITIES ARE APPROXIMATE ONLY. PAYMENT WILL BE MADE FOR ACTUAL QUANTITIES USED AS MEASURED IN THE FIELD.
- THE FOLLOWING UTILITY COMPANIES HAVE UTILITIES WITHIN THE LIMITS OF CONSTRUCTION. ADJUSTMENT OF UTILITY LOCATIONS WILL BE MADE BY THE OWNER, UNLESS OTHERWISE NOTED ON THE PLANS.

SUMMARY OF BENCHMARKS							
BENCHMARK NUMBER	DESCRIPTION	STATION	OFFSET	NORTHING	EASTING	ELEV.	TEI POINT NUMBER
BM#1	CUT 'X' IN W. RR ABUTMENT ON W. SIDE OF THE KANKAKEE RIVER ALONG NORFOLK SOUTHERN RR	132+13.21	99.97' LT	12468.853	1564.969	601.071	4643
BM#2	CUT 'X' IN SIDEWALK ALONG E. SIDE OF KENNEDY DR. (IL. RTE 45)	122+44.37	95.42' LT	13286.747	1888.061	612.719	73
BM#3	CUT 'X' IN TOP OF CURB ON S.E. CORNER OF RIVER DR. AND WILSON DR.	104+47.56	22.74' LT	14954.712	1533.351	626.040	77
BM#4	CUT 'X' ON TOP OF CURB ON W. SIDE OF RIVER DR. AT GREGG ST.	100+51.96	18.25' RT	15292.756	1309.162	627.612	78
BM#5	CUT 'X' IN SIDEWALK ALONG E. SIDE OF WALL ST. (IL. RTE 113)	139+76.47	142.03' LT	12162.583	1025.886	613.942	4935
BM#6	CUT 'X' IN SIDEWALK ALONG E. SIDE OF WALL ST. (IL. RTE 113)	138+39.04	14.79' LT	12279.545	975.082	612.431	5136
BM#7	IRON ROD IN LAWN AREA BETWEEN EX. BITUMINOUS PATH AND EX. FLARED END SECTION	132+59.16	12.73' LT	12528.868	1495.546	600.970	10084
BM#8	'PK' NAIL IN PAVEMENT IN SOUTH EDGE OF RIVERSIDE PARKING LOT	135+16.95	5.19' LT	12411.810	1269.545	608.699	5244
BM#9	'PK' NAIL IN PAVEMENT NEAR S.W. CORNER OF TANK FARM	133+80.13	37.09' RT	12494.350	1383.530	607.608	5278
BM#10	IRON ROD IN LAWN AREA IN NORFOLK SOUTHERN RIGHT-OF-WAY; W. SIDE OF KANKAKEE RIVER	132+07.77	70.18' LT	12498.443	1558.524	598.502	42
BM#11	IRON ROD IN LAWN AREA ON W. SIDE OF KENNEDY DR. N. OF NORFOLK SOUTHERN BRIDGE	128+25.21	60.21' LT	12663.544	1921.480	601.706	68
BM#12	'PK' NAIL IN RIVER BANK ON W. SIDE OF KANKAKEE RIVER	131+87.42	16.89' LT	12555.462	1556.793	595.555	4655

UTILITY	STATUS OF RELOCATION	
	DATE	
POWER COMMONWEALTH EDISON CO. 2500 SOUTH GOVERNORS HIGHWAY UNIVERSITY PARK, IL 60466	PRELIMINARY PLANS SET	4/10/12 NONE REQUIRED
	FINAL PLAN SET	2/16/15
TELEPHONE AT&T 65 WEST WEBSTER JOLIET, IL 60431	PRELIMINARY PLANS SET	4/10/12 NONE REQUIRED
	FINAL PLAN SET	2/16/15
CABLE TV COMCAST 17700 HOFFMAN WAY HOMWOOD, IL 60430	PRELIMINARY PLANS SET	4/10/12 NONE REQUIRED
	FINAL PLAN SET	2/16/15
GAS NORTHERN ILLINOIS GAS CO. 1844 FERRY ROAD NAPERVILLE, IL 60563	PRELIMINARY PLANS SET	4/10/12 NONE REQUIRED
	FINAL PLAN SET	2/16/15
WATER AQUA ILLINOIS 1000 SOUTH SCHUYLER AVE. KANKAKEE, IL 60901	PRELIMINARY PLANS SET	4/10/12 NONE REQUIRED
	FINAL PLAN SET	2/16/15

HMA MIXTURES REQUIREMENTS	
	HMA Surface
PG Grade	PG64-22
Design Air Voids	4.0% @ N50
Mixture Composition	IL 9.5
Friction Aggregate	Mixture C
Density Test Method	CORES

- * Material shall be compacted to 93.0 - 97.4 percent of the maximum theoretical density, except that when placed as first lift on an unimproved subgrade the minimum percent compaction shall be 92.0 percent. The maximum theoretical density shall be determined from the moving average as specified in the QC/QA Specification.
- ** When RAP/RAS ABR exceeds 20 percent, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25% ABR would require a virgin asphalt binder grade of PG64-22 to be reduced to PG58-28).

LEGEND			
B.S.L.	BUILDING SETBACK LINE		GRADE
D.E.	DRAINAGE EASEMENT		EXIST. SWALE FLOW LINE
W.M.E.	WATER MAIN EASEMENT		TREE/BUSH
ST.S.E.	STORM SEWER EASEMENT		EXIST. STORM SEWER
SAN.S.E.	SANITARY SEWER EASEMENT		EXIST. SANITARY SEWER
S.L.E.	STREET LIGHT EASEMENT		EXIST. FENCE
P.U.E.	PUBLIC UTILITY EASEMENT		EXIST. EDGE OF PAVEMENT & SIDEWALK
□	IRON ROD RECOVERED		EXIST. CURB & GUTTER
■	IRON ROD SET		NEW SPOT ELEVATION
△	RAILROAD SPIKE RECOVERED		NEW STREET LIGHT
⊙	PK NAIL RECOVERED		NEW FIRE HYDRANT
⊗	PK NAIL SET		NEW WATER VALVE
⊕	CUT CROSS RECOVERED		NEW MANHOLE
+	CUT CROSS SET		NEW INLET
(100.0)	RECORDED DIMENSION		NEW FLARED END SECTION
100.00	MEASURED DIMENSION		NEW STORM SEWER
⊗	EXIST. POWER POLE		NEW SANITARY SEWER
⊕	EXIST. STREET LIGHT		NEW WATER MAIN
⊙	EXIST. LIGHT POLE		SILT FENCE
⊗	EXIST. TELEPHONE PEDESTAL		NEW EASEMENT
⊗	EXIST. GAS VALVE		NEW CURB & GUTTER
⊗	EXIST. FIRE HYDRANT		NEW CURB & GUTTER W/ INVERTED GUTTER PAN
⊗	EXIST. WATER VALVE		NEW BITUMINOUS PAVEMENT
⊗	EXIST. BUFFALO BOX		NEW CONCRETE SIDEWALK
⊗	EXIST. WATER METER		SURFACE REMOVAL
▽	EXIST. FLARED END SECTION		DETECTABLE WARNINGS FOR CURB RAMPS ON SIDEWALKS
⊗	EXIST. INLET		REMOVE OBJECT
⊗	EXIST. MANHOLE		
⊕	EXIST. SIGN		

PAVEMENT DESIGN

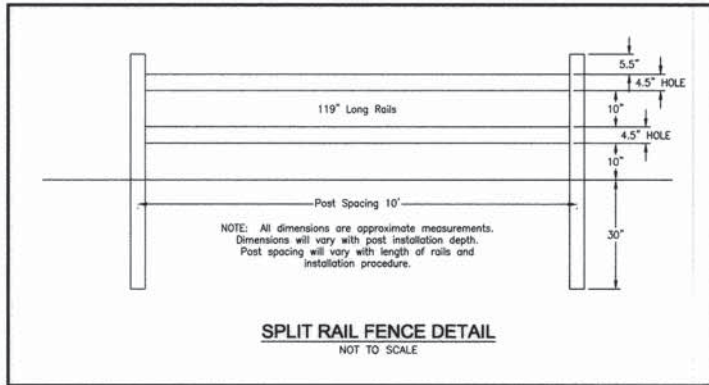
RIVERFRONT
STA. 115+54 to STA. 138+40

Shared use path
D.P. - 20 years
Design Traffic
Existing ADT: 20/0 ped/bike
Proposed ADT: 50/150 ped/bike
Critical subgrade Eri: 3ksi

Subgrade support rating: fair
mixture temperature: 78.5

USE: 3" HMA, 8" AGG

FAA N/A	SECTION *	COUNTY KANKAKEE	TOTAL SHEETS 25	SHEET NO. 2
CONTRACT NO. 87623				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
*10-00276-01-BT				
 Tyson ENGINEERING 367 South Schuyler Avenue Kankakee, Illinois 60901 Phone (815) 932-7406				
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REVISIONS				
NO.	DATE	BY	DESCRIPTION	
1	03/21/15	COB	PER IDOT REVIEW	
2	10/20/15	NRD	PER CITY	
GENERAL NOTES PAVEMENT DESIGN STATUS OF UTILITIES HMA MIXTURE REQUIREMENTS SUMMARY OF BENCHMARKS				
PROPOSED IMPROVEMENTS FOR RIVERFRONT TRAIL PHASE 2B KANKAKEE, ILLINOIS				
SECTION 10-00276-01-BT				
DATE:	02/16/2015	JOB NO.	E10054	
SCALE:	N/A	FILE NO.		
DRAWN BY:	MRG	SHEET	2	
CHECKED BY:	SRM	OF	25	

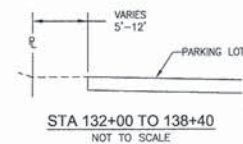
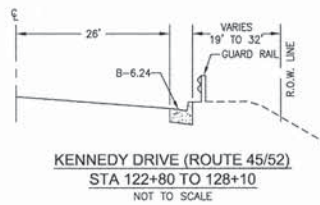
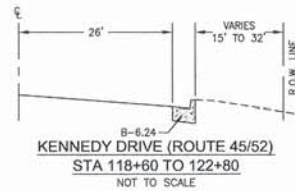
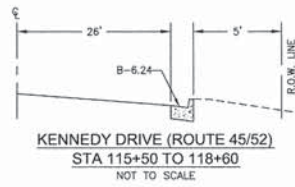
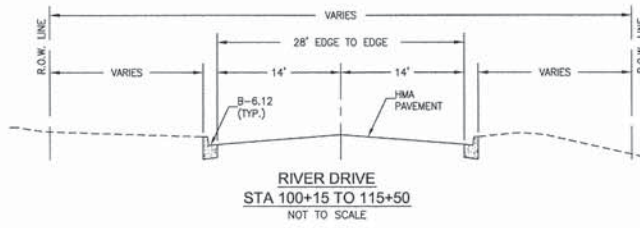


SUMMARY OF QUANTITIES				
PAY ITEM NUMBER	ITEM	TOTAL QUANTITY	UNIT	CONSTRUCTION CODE 0028
20100110	Tree Removal (6-15 Units Diameter)	92	UNIT	92
20100210	Tree Removal (Over 15 Units Diameter)	206	UNIT	206
20200100	Earth Excavation	494	CU YD	494
21101620	Top Soil Furnish and Place, 5"	2,810	SQ YD	2,810
25100630	Erosion Control Blanket	2,810	SQ YD	2,810
28000400	Perimeter Erosion Barrier	1,010	FOOT	1,010
28100107	Stone Riprap, Class A4	121	SQ YD	121
28200200	Filter Fabric	96	SQ YD	96
35101600	Aggregate Base Course, Type B 4"	1,035	SQ YD	1,035
35102000	Aggregate Base Course, Type B 8"	1,309	SQ YD	1,309
40600275	Bituminous Materials (Prime Coat)	2,945	POUND	2,945
40603310	Hot-Mix Asphalt Surface Course, Mix "C", N50	203	TON	203
42400200	Portland Cement Concrete Sidewalk 5 inch	500	SQ FT	500
42400300	Portland Cement Concrete Sidewalk 6 inch	8,820	SQ FT	8,820
42400800	Detectable Warnings	30	SQ FT	30
44000100	Pavement Removal	799	SQ YD	799
44000500	Combination Curb and Gutter Removal	81	FOOT	81
44000600	Sidewalk Removal	300	SQ FT	300
50104650	Slope Wall Removal	106	SQ YD	106
50200100	Structure Excavation	540	CU YD	540
50201101	Cofferdam (Type 1) (Location -1)	1	EACH	1
50201102	Cofferdam (Type 1) (Location -2)	1	EACH	1
50201103	Cofferdam (Type 1) (Location -3)	1	EACH	1
50300225	Concrete Structures	214	CU YD	214
50300280	Concrete Encasement	2	CU YD	2
50800205	Reinforcement Bars, Epoxy Coated	16,190	POUND	16,190
50901720	Bicycle Railing	752	FOOT	752
51100100	Slope Wall 4 inch	106	SQ YD	106
51201610	Furnishing Steel Piles HP12x63	368	FOOT	368
51202305	Driving Piles	368	FOOT	368
51203610	Test Pile Steel HP12x63	2	EACH	2
51204650	Pile Shoes	24	EACH	24
52100510	Anchor Bolts, 3/4"	32	EACH	32
54213669	Precast Reinforced Concrete Flared End Sections 24"	1	EACH	1
550A0120	Storm Sewers, Class A, Type 1 24"	48	FOOT	48
58700300	Concrete Sealer	249	SQ FT	249
59100100	Geocomposite Wall Drain	44	SQ YD	44
60255500	Manholes to be Adjusted	1	EACH	1
60266600	Valve Boxes to be Adjusted	3	EACH	3
60603800	Combination Concrete Curb and Gutter, Type B-6.12	73	FOOT	73
67100100	Mobilization	1	L SUM	1
70102620	Traffic Control and Protection, Standard 701501	1	L SUM	1
70102625	Traffic Control and Protection, Standard 701606	1	L SUM	1
70102640	Traffic Control and Protection, Standard 701801	1	L SUM	1
72000100	Sign Panel - Type 1	57.25	SQ FT	57.25
72800100	Telescoping Steel Sign Support	26.5	FOOT	26.5
72900100	Metal Post - Type A	147.5	FOOT	147.5
78001100	Paint Pavement Marking - Letters and Symbols	15.6	SQ FT	15.6
78001110	Paint Pavement Marking - Line 4"	4,074	FOOT	4,074
78001130	Paint Pavement Marking - Line 6"	128	FOOT	128
78001150	Paint Pavement Marking - Line 12"	130	FOOT	130
84400105	Relocate Existing Lighting Unit	1	EACH	1
X0300019	Remove and Reinstall Parking Blocks	29	EACH	29
X0322508	Pedestrian Truss Superstructure	5,718	SQ FT	5,718
X0323443	Precast Modular Retaining Wall	4,936	SQ FT	4,936
X0325800	Parking Lot Seal Coat	3,797	SQ YD	3,797
X0327146	Relocate Bike Rack	1	EACH	1
X5860110	Granular Backfill for Structures	70	CU YD	70
X7240205	Remove Sign Complete	2	EACH	2
X7240500	Relocate Existing Signs	22	EACH	22
XX006343	Seeding (Complete)	2,810	SQ YD	2,810
Z0046304	Pipe Underdrains for Structures, 4"	20	FOOT	20
Z0055400	Rumble Strip	200	FOOT	200
Z0073002	Temporary Soil Retention System	73	SQ FT	73
XX009074	Drill and Grout Stainless Steel Dowels	108	EACH	108
XX009075	Removal of Existing Bridge Piers	1	L SUM	1
XX000503	Split Rail Fence	62	FOOT	62

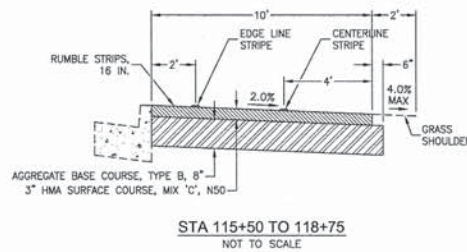
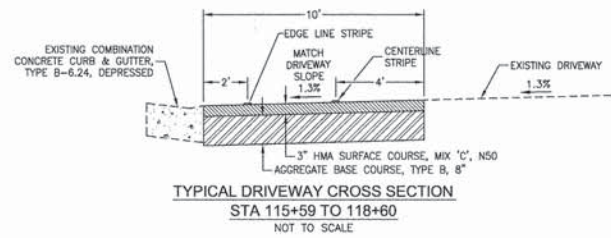
* See Special Provisions
 Δ Specialty Item
 Construction Code: 0028

FAA/SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	KANKAKEE	25	3
CONTRACT NO. 87623			
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<p>Tyson ENGINEERING 367 South Schuyler Avenue Kankakee, Illinois 60901 Phone (815) 932-7406</p>			
REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	03/21/15	CDB	PER IDOT REVIEW
2	10/20/15	NRD	PER CITY
SUMMARY OF QUANTITIES			
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SECTION 10-00276-01-BT			
DATE:	02/16/2015	JOB NO.	E10054
SCALE:	N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	3
CHECKED BY:	SRM	OF	25

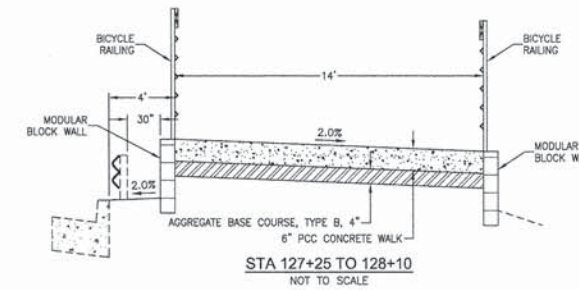
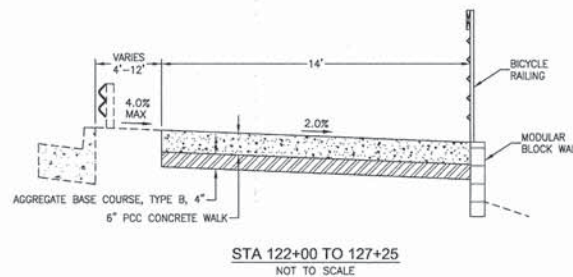
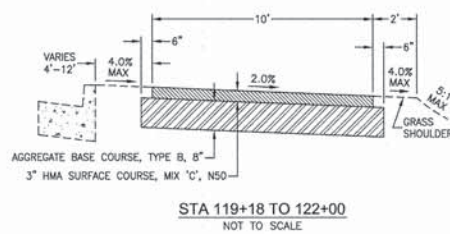
TYPICAL EXISTING CROSS SECTIONS



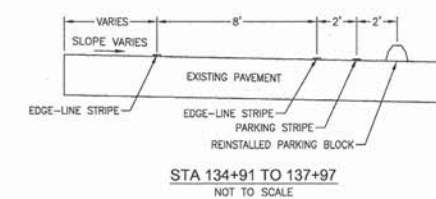
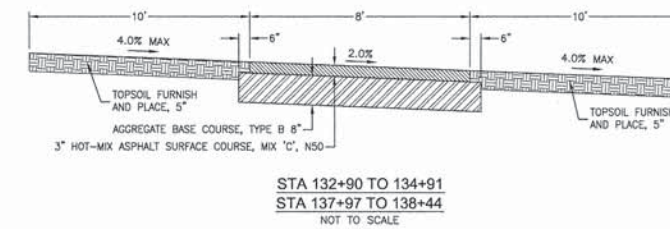
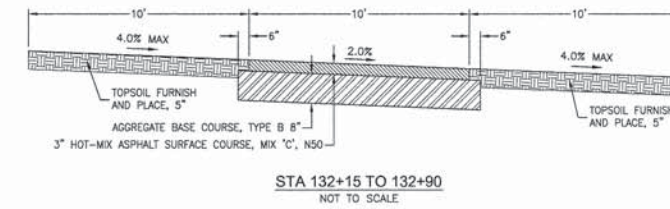
TYPICAL PROPOSED TRAIL CROSS SECTIONS



THE DISTANCE FROM THE BACK OF CURB TO THE TRAIL TRANSITIONS FROM 0' TO 4'.
STA 118+75 TO 119+18



SEE SHEET NUMBER S-03
STA 128+10 TO 132+15



FILE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	*	KANKAKEE	25	4

CONTRACT NO. 87623
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

*10-00276-01-BT

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Tyson ENGINEERING
367 South Schuyler Avenue
Kankakee, Illinois 60901
Phone (815) 932-7406

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	03/21/15	CDB	PER IDOT REVIEW
2	10/20/15	NRD	PER CITY

TYPICAL CROSS SECTIONS

PROPOSED IMPROVEMENTS FOR
**RIVERFRONT TRAIL
PHASE 2B**
KANKAKEE, ILLINOIS

SECTION
10-00276-01-BT

DATE:	02/16/2015	JOB NO.	E10054
SCALE:	N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	4
CHECKED BY:	SRM	OF	25

TREES SCHEDULE		
LOCATION	6 TO 15 UNITS DIAMETER (UNIT)	OVER 15 UNITS DIAMETER (UNIT)
STA 117+08 - 1 RT		36
STA 117+92 - 2 RT		36
STA 118+52 - 9 RT		26
STA 119+24 - 1 LT		32
STA 122+82 - 3 RT	12	
STA 122+85 - 5 RT	10	
STA 123+13 - 11 RT	14	
STA 123+30 - 12 RT	8	
STA 123+47 - 11 RT	8	
STA 123+52 - 6 RT	10	
STA 123+63 - 8 RT	14	
STA 127+58 - 4 RT	8	
STA 131+70 - 10 LT	8	
STA 132+18 - 3 RT		18
STA 132+21 - 2 RT		36
STA 132+92 - 19 RT		22
TOTAL	92	206

EROSION CONTROL SCHEDULE	
LOCATION	PERIMETER EROSION CONTROL BARRIER (FOOT)
STA 118+80 TO 128+90	810
STA 131+70	200
TOTAL	1010

EARTH EXCAVATION SCHEDULE	
LOCATION	EARTH EXCAVATION (CU YD)
STA 114+50 TO 115+20 LT	22
STA 115+54 TO 117+11	70
STA 117+11 TO 117+57	51
STA 117+57 TO 118+83	56
STA 118+83 TO 119+50	35
STA 119+50 TO 122+00	32
STA 122+00 TO 124+00	6
STA 124+00 TO 127+25	42
STA 133+50 TO 134+90	37
STA 137+95 TO 138+40	47
RIVERSIDE PATH	96
TOTAL	494

SIGNS SCHEDULE				
LOCATION	SIGN PANEL TYPE 1 (SQ FT)	METAL POST TYPE A (FOOT)	TELESCOPING STEEL SIGN SUPPORT (FOOT)	
STA 100+80 - 18 RT	3	12		BIKE ROUTE (D11-1) (24"x18")
STA 103+60 - 18 LT	3	12		BIKE ROUTE (D11-1) (24"x18")
STA 104+85 - 18 RT	3	12		BIKE ROUTE (D11-1) (24"x18")
STA 107+25 - 21 LT	3	12		BIKE ROUTE (D11-1) (24"x18")
STA 108+25 - 18 RT	3	12		BIKE ROUTE (D11-1) (24"x18")
STA 114+50 - 19 LT	3	12		BIKE ROUTE (D11-1) (24"x18")
STA 115+50 - 1 LT	6.25		13	STOP SIGN (R1-1) (30"x30")
STA 116+00 - 7 RT	6.25	12.50		STOP SIGN (R1-1) (18"x18") and DRIVEWAY CROSSING SIGN (24"x24")
STA 118+75 - 7 RT	8	12.50		NO MOTOR VEHICLES (R5-3) (24"x24") and DRIVEWAY CROSSING SIGN (24"x24")
STA 120+00 - 8 LT	7.50		13.50	35 MPH SPEED LIMIT SIGN (R2-1) (30"x36")
STA 127+05 - 7 RT	2.25	12.50		TURN RIGHT (W1-1) (18"x18")
STA 128+80 - 7 LT	2.25	12.50		TURN LEFT (W1-1) (18"x18")
STA 138+39 - 7 RT	2.25	12		STOP SIGN (R1-1) (18"x18")
STA 138+44 - 15 LT	4.50	13.50		PATH NARROWS (W5-4a) (18"x18") and LOW CLEARANCE (W12-2) (18"x18")
TOTAL	57.25	147.50	26.50	

REMOVALS SCHEDULE			
LOCATION	PAVEMENT REMOVAL (SQ YD)	COMBINATION CURB AND GUTTER REMOVAL (FOOT)	SIDEWALK REMOVAL (SQ FT)
STA 114+50 TO 115+20 LT		10	300
STA 115+54		15	
STA 115+59 TO 116+00	46		
STA 116+62 TO 16+76	16		
STA 117+11 TO 117+57	128		
STA 117+57 TO 117+85	9		
STA 117+95 TO 118+10	17		
STA 118+18 TO 118+48	33		
STA 132+00 TO 133+10	194		
STA 134+00 TO 138+44	316		
STA 137+95 TO 138+15	40	56	
TOTAL	799	81	300

TURF ESTABLISHMENT SCHEDULE			
LOCATION	TOPSOIL FURNISH AND PLACE, 5" (SQ YD)	SEEDING, COMPLETE (SQ YD)	EROSION CONTROL BLANKET (SQ YD)
STA 114+50 TO 115+20 LT	92	92	92
STA 115+54 TO 115+60	3	3	3
STA 116+00 TO 116+62	14	14	14
STA 116+76 TO 117+58	18	18	18
STA 118+60 TO 118+19	2	2	2
STA 118+46 TO 118+83	8	8	8
STA 118+83 TO 122+00	458	458	458
STA 122+00 TO 123+89	252	252	252
STA 123+89 TO 126+90	201	201	201
STA 126+90 TO 128+30	87	87	87
STA 131+80 TO 135+00 LT	436	436	436
STA 132+95 TO 133+40 RT	489	489	489
STA 133+40 TO 134+90 RT	150	150	150
STA 135+00 TO 137+97 LT	297	297	297
STA 137+97 TO 138+44	100	100	100
RIVERSIDE PATH	203	203	203
TOTAL	2810	2810	2810

MISCELLANEOUS SCHEDULE										
LOCATION	RELOCATE EXISTING SIGNS (EACH)	STORM SEWERS, CLASS A, TYPE 1 24" (FOOT)	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24" (EACH)	RELOCATE EXISTING LIGHTING UNIT (EACH)	REMOVE SIGN COMPLETE (EACH)	SPLIT RAIL FENCE (FOOT)	REMOVE AND REINSTALL PARKING BLOCKS (EACH)	RELOCATE BIKE RACK (EACH)	MANHOLES TO BE ADJUSTED (EACH)	VALVE BOXES TO BE ADJUSTED (EACH)
STA 115+65 - 5 LT					1					
STA 116+00 TO 116+62 - 8 RT						62				
STA 116+57 - 3 LT					1					
STA 116+82 - 8 RT				1						
STA 117+44 - 5 RT										1
STA 118+37 - 1 RT										1
STA 118+77 - 1 RT										1
STA 131+98 - 29 LT			1							
STA 131+98 TO 132+60 LT		48								
STA 133+50 - 15 RT							1			
STA 135+33 TO 137+95 RT						29				
STA 135+70 TO 137+60	22									
STA 138+08									1	
TOTAL	22	48	1	1	2	62	29	1	1	3

PAVEMENT SCHEDULE							
LOCATION	AGGREGATE BASE COURSE, TYPE B 4" (SQ YD)	AGGREGATE BASE COURSE, TYPE B 8" (SQ YD)	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (TON)	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (FOOT)	RUMBLE STRIP (FOOT)	PARKING LOT SEAL COAT (SQ YD)	BITUMINOUS MATERIALS (PRIME COAT) (POUND)
STA 114+50 TO 115+20 LT	44			10			
STA 115+54 TO 115+59	11			15			
STA 115+59 TO 117+11		177	28				398
STA 116+00 TO 116+62					62		
STA 116+76 TO 117+11					35		
STA 117+11 TO 117+57		156	26				351
STA 117+22 TO 117+52					30		
STA 117+57 TO 118+83		135	22				304
STA 117+65 TO 117+93					28		
STA 118+10 TO 118+18					8		
STA 118+46 TO 118+83					37		
STA 118+83 TO 122+00		387	59				871
STA 122+00 TO 128+30	980						
STA 132+11 TO 132+90		96	15				216
STA 132+90 TO 134+90		200	30				450
STA 135+35 TO 137+95						3797	
STA 137+95 TO 138+15 RT				48			
STA 137+97 TO 138+44		45	7				101
RIVERSIDE PATH		113	16				254
TOTAL	1035	1309	203	73	200	3797	2945

SIDEWALK SCHEDULE			
LOCATION	PORTLAND CEMENT CONCRETE SIDEWALK 5" (SQ FT)	PORTLAND CEMENT CONCRETE SIDEWALK 6" (SQ FT)	DETECTABLE WARNINGS (SQ FT)
STA 114+50 TO 115+20 LT	400		10
STA 115+54 TO 115+59	100		20
STA 122+00 TO 128+30		8820	
TOTAL	500	8820	30

PAVEMENT MARKING SCHEDULE					
LOCATION	PAINT PAVEMENT MARKING				
	LETTERS AND SYMBOLS (SQ FT)	LINE 4" (FOOT)	LINE 6" (FOOT)	LINE 12" (FOOT)	
STA 115+20			128	120	CROSSWALK WHITE
STA 115+58				5	STOP BAR WHITE
STA 115+59 TO 138+44		571			SKIP DASH YELLOW
STA 115+59 TO 118+83 LT		324			EDGE LINE WHITE
STA 134+91 TO 137+97 LT		306			EDGE LINE WHITE
STA 134+91 TO 137+97 RT		306			EDGE LINE WHITE
STA 138+39				5	STOP BAR WHITE
RIVERSIDE PARKING LOT	15.6	2567			LINE WHITE
TOTAL	15.6	4074	128	130	

F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	*	KANKAKEE	25	5

CONTRACT NO. 87623
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

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 Kankakee, Illinois 60901
 Phone (815) 932-7406

REVISIONS			
NO.	DATE	BY	DESCRIPTION
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SCHEDULE OF QUANTITIES

PROPOSED IMPROVEMENTS FOR
**RIVERFRONT TRAIL
 PHASE 2B**
 KANKAKEE, ILLINOIS

SECTION 10-00276-01-BT	
DATE: 02/16/2015	JOB NO. E10054
SCALE: N/A	FILE NO.
DRAWN BY: MRG	SHEET
CHECKED BY: SRM	5 OF 25

FAU. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	*	KANKAKEE	25	6

CONTRACT NO. 87623

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

*10-00276-01-BT

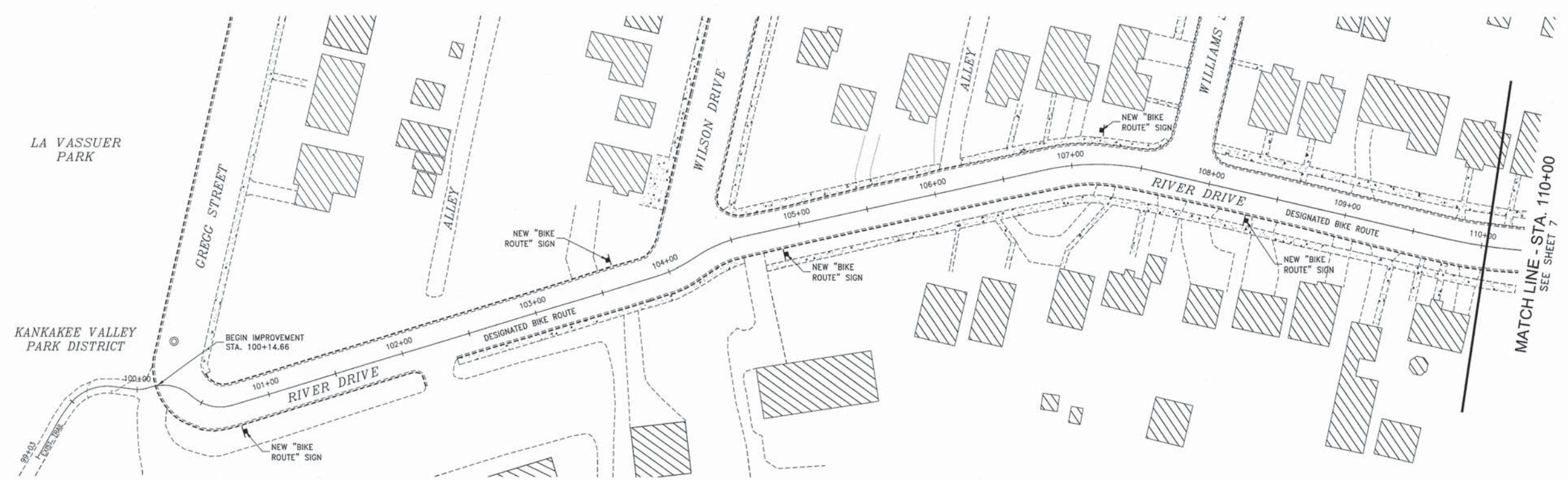
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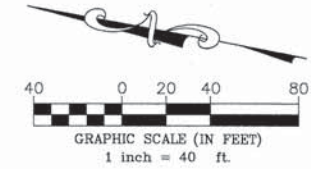


MATCH LINE - STA. 110+00
SEE SHEET 7

PLAN
STA. 99+00 TO STA. 110+00

PROPOSED IMPROVEMENTS FOR
**RIVERFRONT TRAIL
PHASE 2B**
KANKAKEE, ILLINOIS

SECTION
10-00276-01-BT



DATE:	02/16/2015	JOB NO.	E10054
SCALE:	1"=40'	FILE NO.	
DRAWN BY:	MRG	SHEET	6
CHECKED BY:	SRM	OF 2.5	

LA VASSUER PARK

KANKAKEE VALLEY PARK DISTRICT

BEGIN IMPROVEMENT STA. 100+14.66

GREGG STREET

ALLEY

WILSON DRIVE

ALLEY

WILLIAMS

RIVER DRIVE

DESIGNATED BIKE ROUTE

NEW "BIKE ROUTE" SIGN

NEW "BIKE ROUTE" SIGN

NEW "BIKE ROUTE" SIGN

RIVER DRIVE

DESIGNATED BIKE ROUTE

NEW "BIKE ROUTE" SIGN

99+00

100+00

101+00

102+00

103+00

104+00

105+00

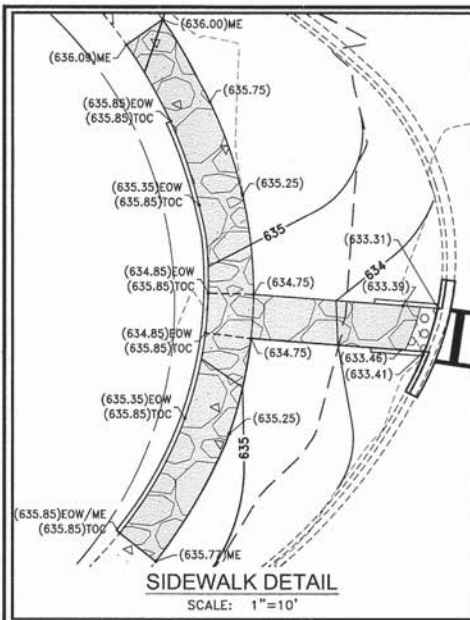
106+00

107+00

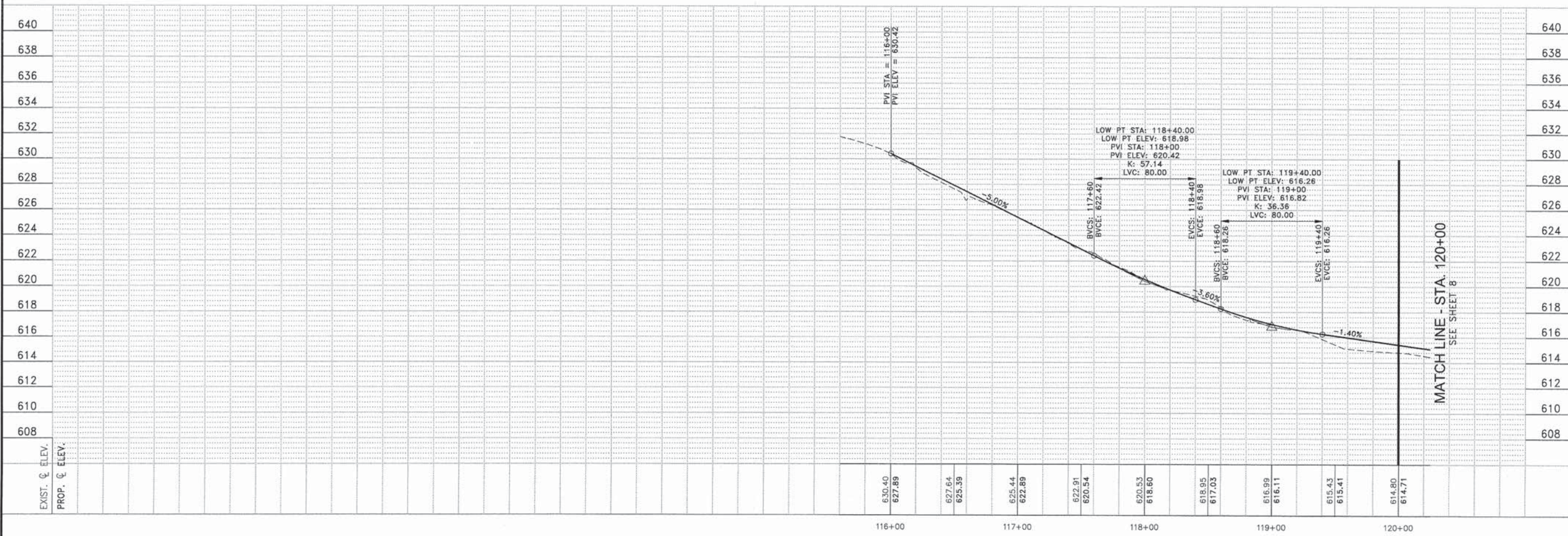
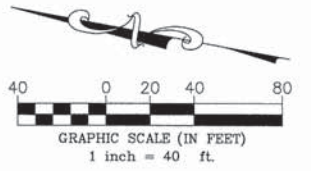
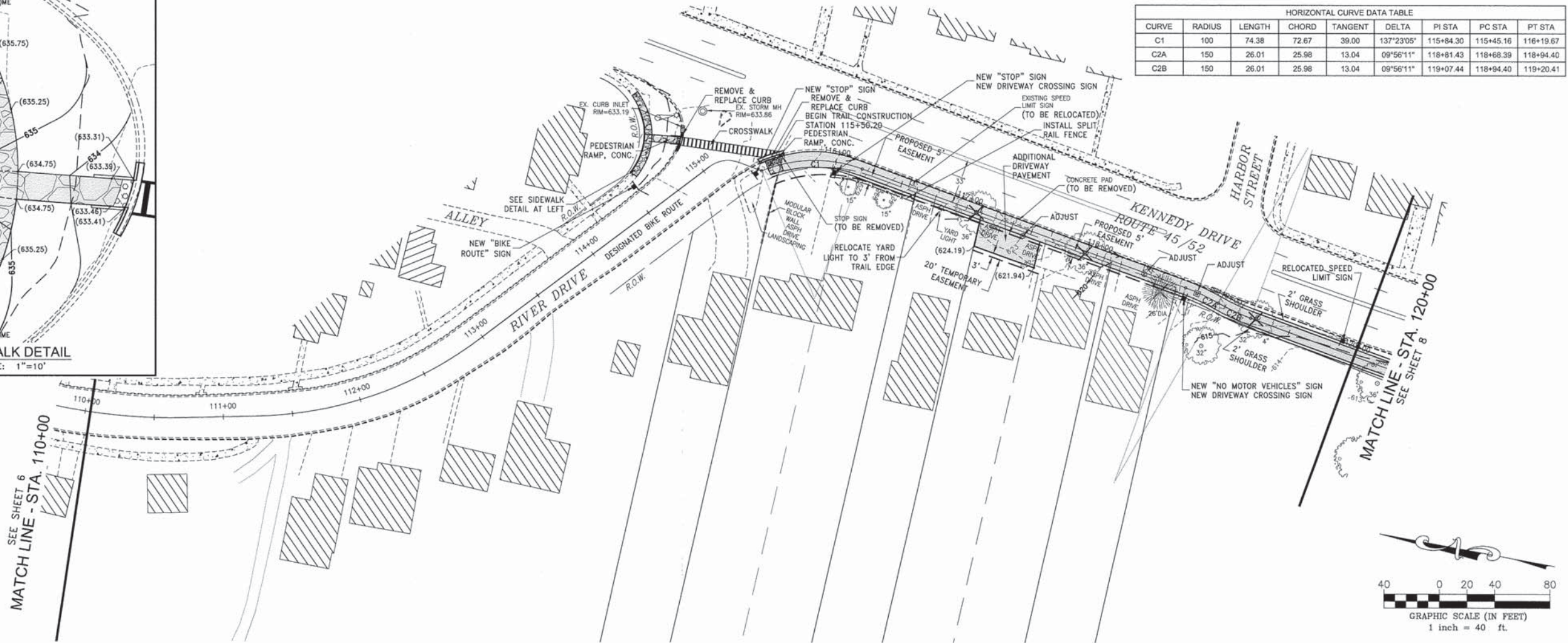
108+00

109+00

110+00



HORIZONTAL CURVE DATA TABLE								
CURVE	RADIUS	LENGTH	CHORD	TANGENT	DELTA	PI STA	PC STA	PT STA
C1	100	74.38	72.67	39.00	137°23'05"	115+84.30	115+45.16	116+19.67
C2A	150	26.01	25.98	13.04	09°56'11"	118+81.43	118+68.39	118+94.40
C2B	150	26.01	25.98	13.04	09°56'11"	119+07.44	118+94.40	119+20.41



CONTRACT NO. 87623
 PROJECT: 10-00276-01-BT
 COUNTY: KANKAKEE
 SHEET NO. 7 OF 25

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 367 South Schuyler Avenue
 Kankakee, Illinois 60901
 Phone (815) 932-7406

REVISIONS			
NO.	DATE	BY	DESCRIPTION
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PLAN & PROFILE
 STA. 110+00 TO STA. 120+00

PROPOSED IMPROVEMENTS FOR
**RIVERFRONT TRAIL
 PHASE 2B**
 KANKAKEE, ILLINOIS

SECTION
 10-00276-01-BT

DATE: 02/16/2015 JOB NO. E10054
 SCALE: HORZ: 1"=40' FILE NO.
 VERT: 1"=4'
 DRAWN BY: MRG SHEET
 CHECKED BY: SRM 7 OF 25

REVISIONS

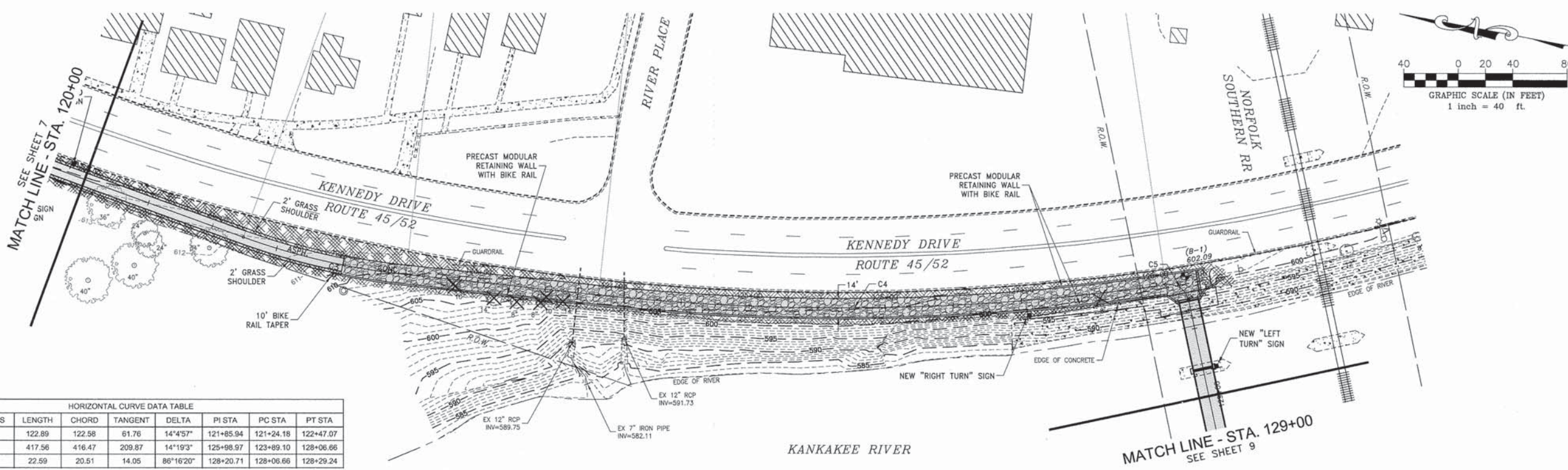
NO.	DATE	BY	DESCRIPTION
1	03/24/15	CDB	PER IDOT REVIEW
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PLAN & PROFILE
 STA. 120+00 TO STA. 129+00

PROJECT:
**PROPOSED IMPROVEMENTS FOR
 RIVERFRONT TRAIL
 PHASE 2B**
 KANKAKEE, ILLINOIS

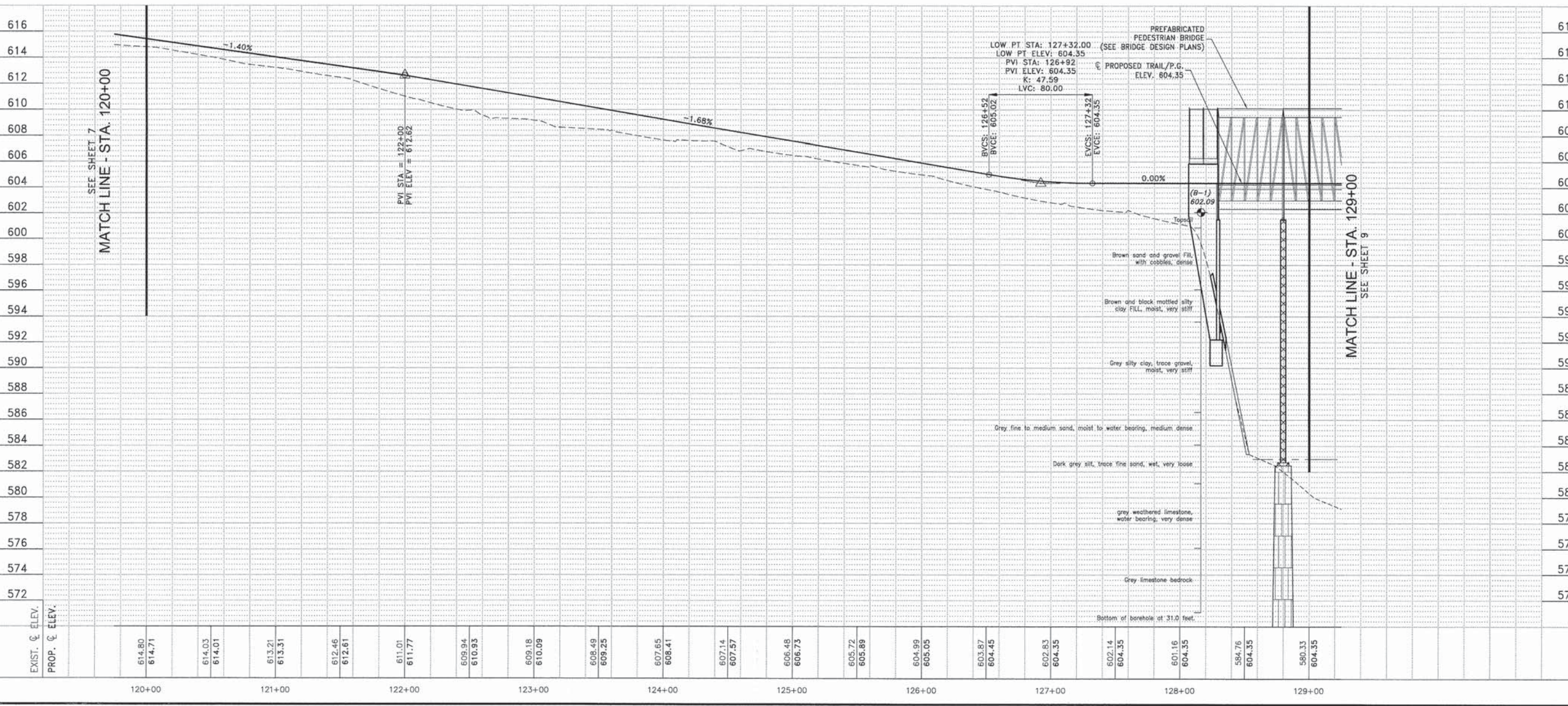
SECTION
 10-00276-01-BT

DATE: 02/16/2015 JOB NO. E10054
 SCALE: HORIZ: 1"=40' FILE NO.
 VERT: 1"=4'
 DRAWN BY: MRG SHEET
 CHECKED BY: SRM 8
 OF 25



HORIZONTAL CURVE DATA TABLE

CURVE	RADIUS	LENGTH	CHORD	TANGENT	DELTA	PI STA	PC STA	PT STA
C3	500	122.89	122.58	61.76	14°4'57"	121+85.94	121+24.16	122+47.07
C4	1671	417.56	416.47	209.87	14°19'3"	125+98.97	123+89.10	128+06.66
C5	15	22.59	20.51	14.05	86°16'20"	128+20.71	128+06.66	128+29.24



SEE SHEET 8
MATCH LINE - STA. 129+00

NORFOLK SOUTHERN RR
BUTRESS
EXTEND 24" R.C.P. STORM
SEWER 48 L.F. @ 0.83%
INSTALL 24" F.E.S.
FL ELEV. = 596.28
NEW RIP-RAP
BUTRESS

"X" ON W. RR
ABUTMENT
ELEV.=601.071

STA. 133+39.63 = STA. 10+14.00
RELOCATED BIKE RACK

REMOVE AND REINSTALL
PARKING BLOCKS (TYPICAL)

NEW "PATH NARROWS" AND
"LOW CLEARANCE" SIGNS

EXISTING STORM MANHOLE
RIM = 613.33
ADJUST RIM TO 612.26
REMOVE CONE, INSTALL FLAT
LID, INSTALL ADJUSTING RINGS,
REINSTALL CASTING

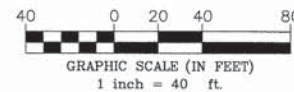
END IMPROVEMENTS
STATION 138+44.25

WALL STREET
(I.L. RT. 713)

RIVERSIDE MEDICAL CENTER
FIRST FLOOR ELEV.=613.79

NOTE: ALL WORK ON OR ALONG RIVERSIDE'S
PARKING LOT MUST BE COORDINATED
WITH RIVERSIDE MEDICAL CENTER.

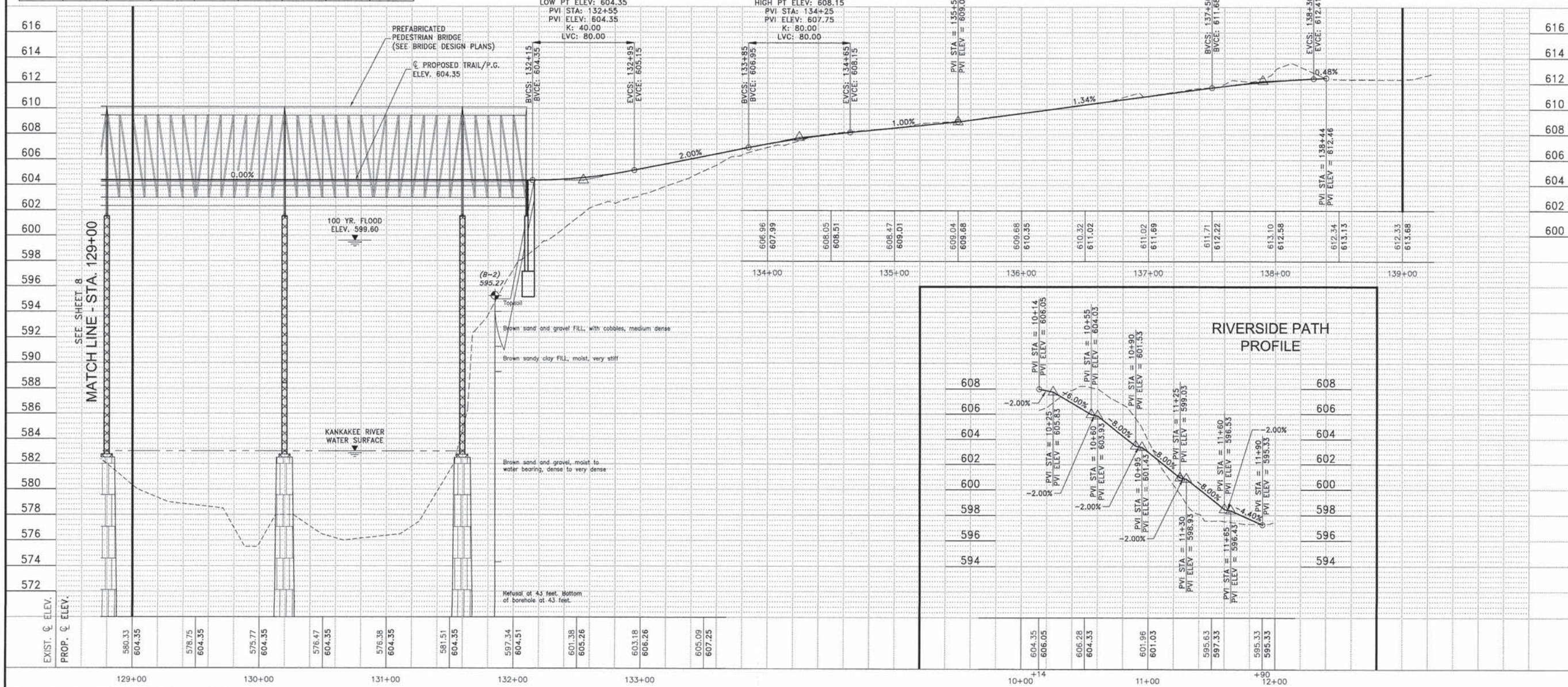
HIGH PT STA: 138+30.00
HIGH PT ELEV: 612.41
PVI STA: 137+90
PVI ELEV: 612.22
K: 92.84
LVC: 80.00



HORIZONTAL CURVE DATA TABLE									
CURVE	RADIUS	LENGTH	CHORD	TANGENT	DELTA	PI STA	PC STA	PT STA	
C6	100	70.59	69.14	36.84	40°26'52"	132+61.53	132+24.69	132+95.28	
C7	100	71.21	69.71	37.19	40°47'56"	133+32.47	132+95.28	133+66.49	
C8	100	36.76	36.55	18.59	21°03'38"	134+72.65	134+54.06	134+90.82	
C9	100	36.60	36.40	18.51	20°58'12"	135+09.32	134+90.82	135+27.42	
C10	500	37.23	37.22	18.62	04°15'56"	137+45.02	137+26.40	137+63.62	
C11	60	88.95	81.03	54.92	84°56'29"	10+72.07	10+17.14	11+06.09	
C12	60	47.89	46.63	25.31	45°44'07"	11+31.40	11+06.09	11+53.99	

LOW PT STA: 132+15.00
LOW PT ELEV: 604.35
PVI STA: 132+55
PVI ELEV: 604.35
K: 40.00
LVC: 80.00

HIGH PT STA: 134+65.00
HIGH PT ELEV: 608.15
PVI STA: 134+25
PVI ELEV: 607.75
K: 80.00
LVC: 80.00



PREFABRICATED
PEDESTRIAN BRIDGE
(SEE BRIDGE DESIGN PLANS)
PROPOSED TRAIL/P.G.
ELEV. 604.35

100 YR. FLOOD
ELEV. 599.60

KANKAKEE RIVER
WATER SURFACE

RIVERSIDE PATH
PROFILE

REVISIONS

NO.	DATE	BY	DESCRIPTION
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PLAN & PROFILE
STA. 129+00 TO STA. 139+00

PROPOSED IMPROVEMENTS FOR
RIVERFRONT TRAIL
PHASE 2B
KANKAKEE, ILLINOIS

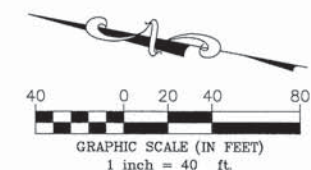
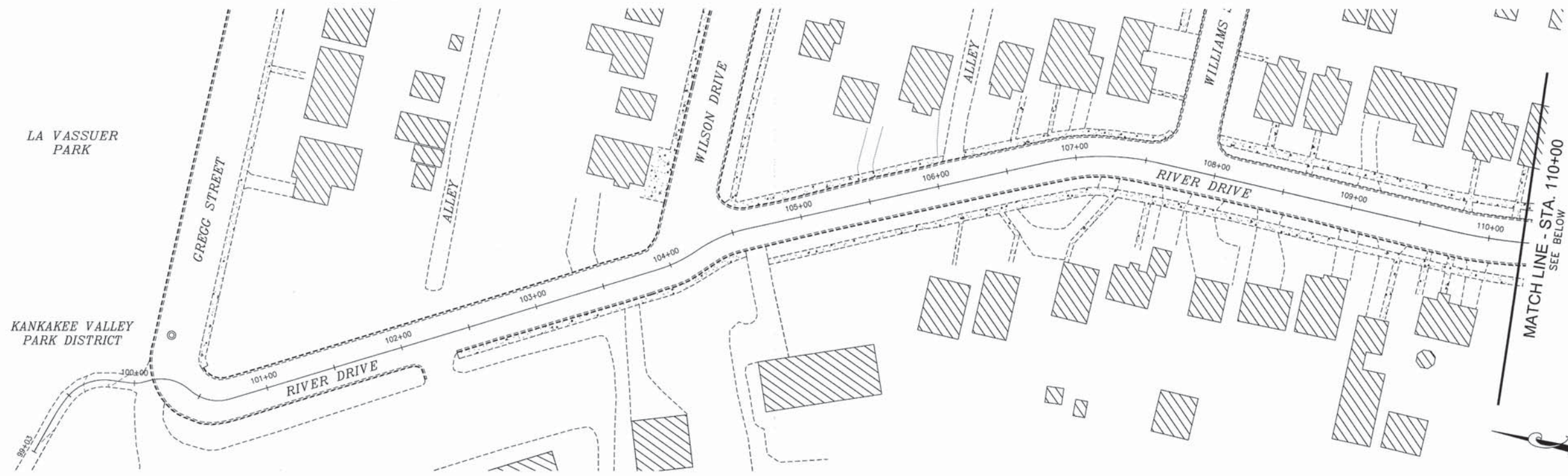
SECTION
10-00276-01-BT

DATE: 02/16/2015	JOB NO. E10054
SCALE: HORIZ: 1"=40' VERT: 1"=4'	FILE NO.
DRAWN BY: MRG	SHEET 9
CHECKED BY: SRM	OF 25

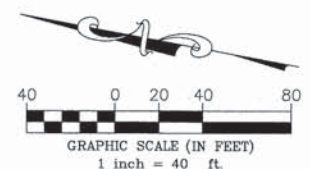
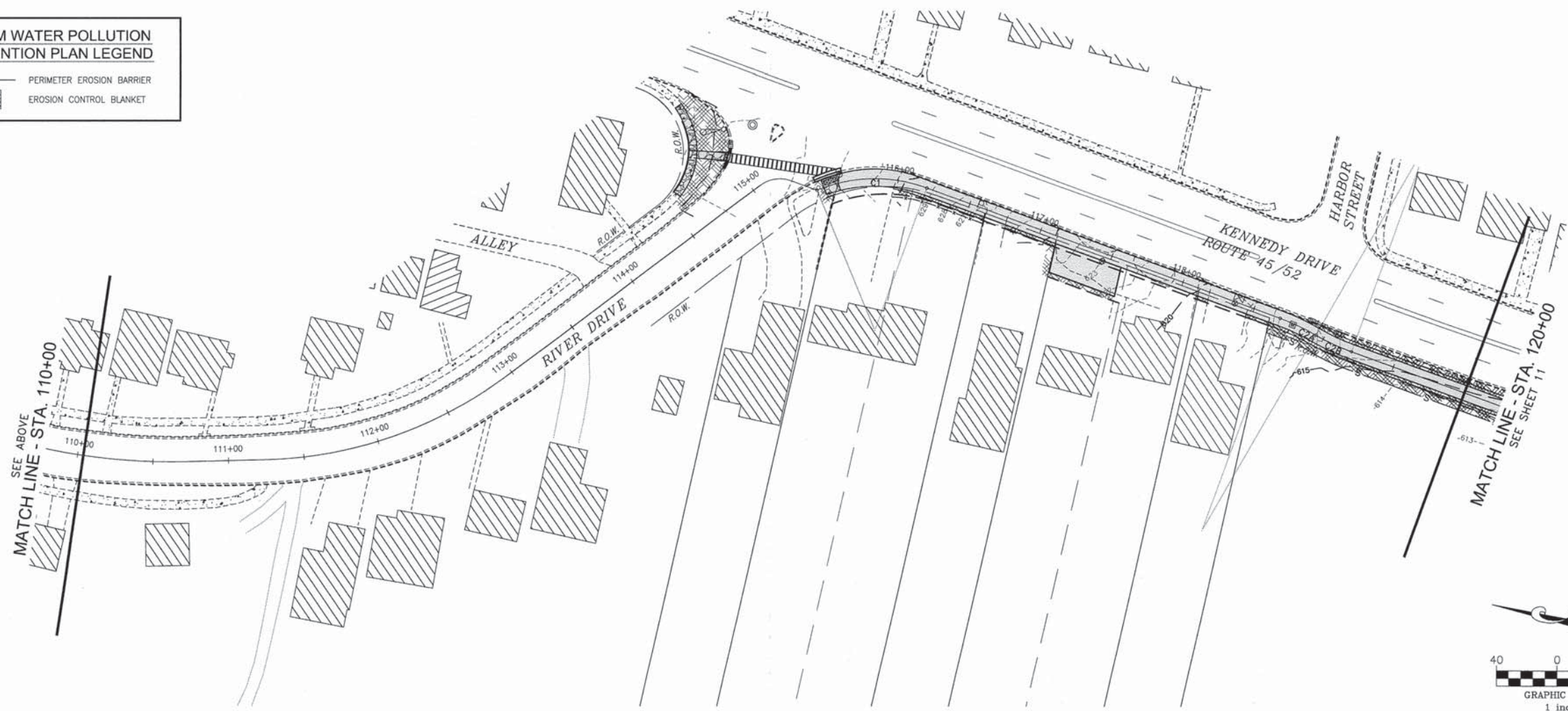
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STORM WATER POLLUTION PREVENTION PLAN LEGEND	
	PERIMETER EROSION BARRIER
	EROSION CONTROL BLANKET



FAU. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	*	KANKAKEE	25	10

CONTRACT NO. 87623

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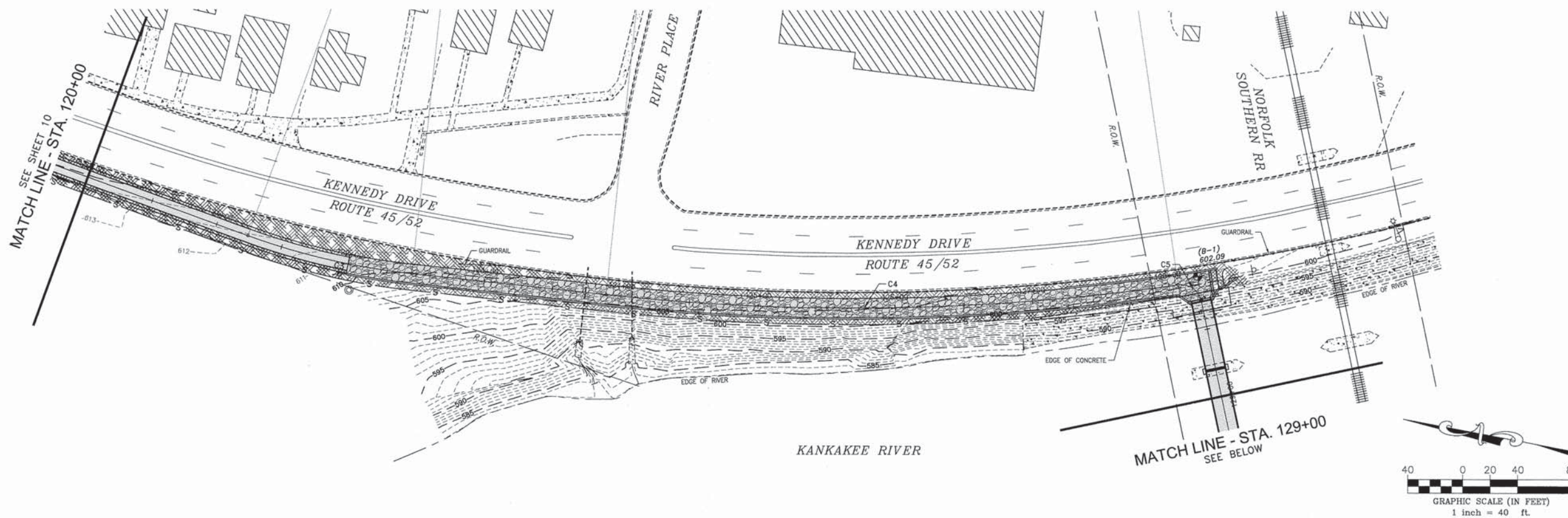
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1	03/24/15	CDB	PER IDOT REVIEW	
2	10/20/15	NRO	PER CITY	

STORM WATER POLLUTION PREVENTION PLAN

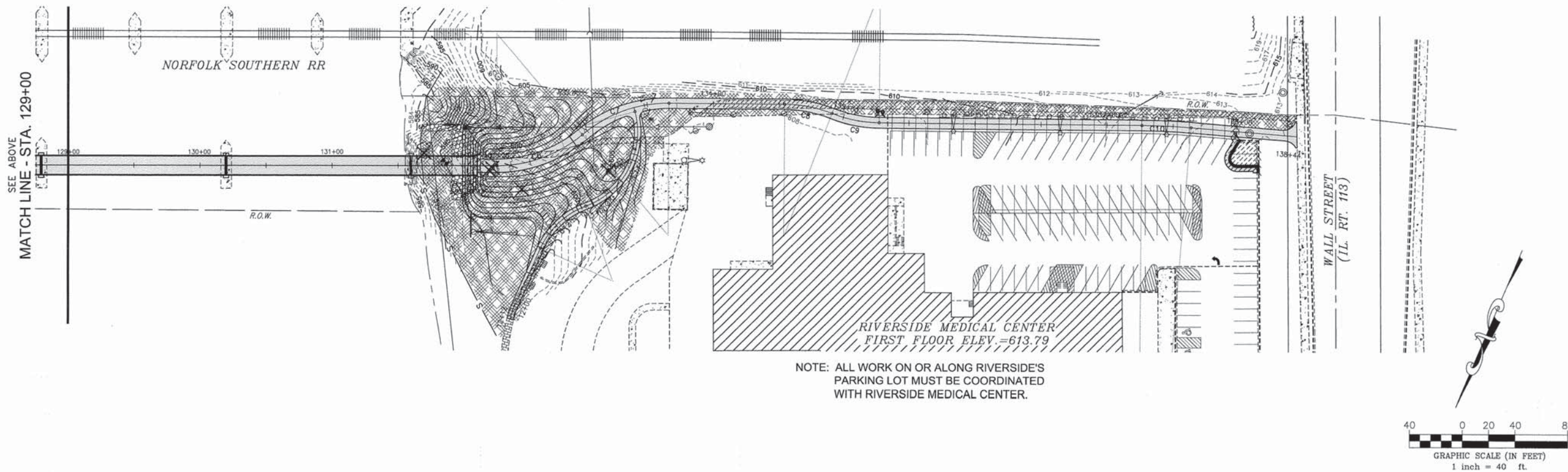
PROPOSED IMPROVEMENTS FOR
**RIVERFRONT TRAIL
 PHASE 2B**
 KANKAKEE, ILLINOIS

SECTION 10-00276-01-BT	
DATE: 02/16/2015	JOB NO. E10054
SCALE: 1"=40'	FILE NO.
DRAWN BY: MRG	SHEET 10
CHECKED BY: SRM	OF 25



STORM WATER POLLUTION PREVENTION PLAN LEGEND

	PERIMETER EROSION BARRIER
	EROSION CONTROL BLANKET



F.A.I. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	*	KANKAKEE	25	11

CONTRACT NO. 87623

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

*10-00276-01-BT

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TYSON ENGINEERING
367 South Schuyler Avenue
Kankakee, Illinois 60901
Phone (815) 932-7406

REVISIONS

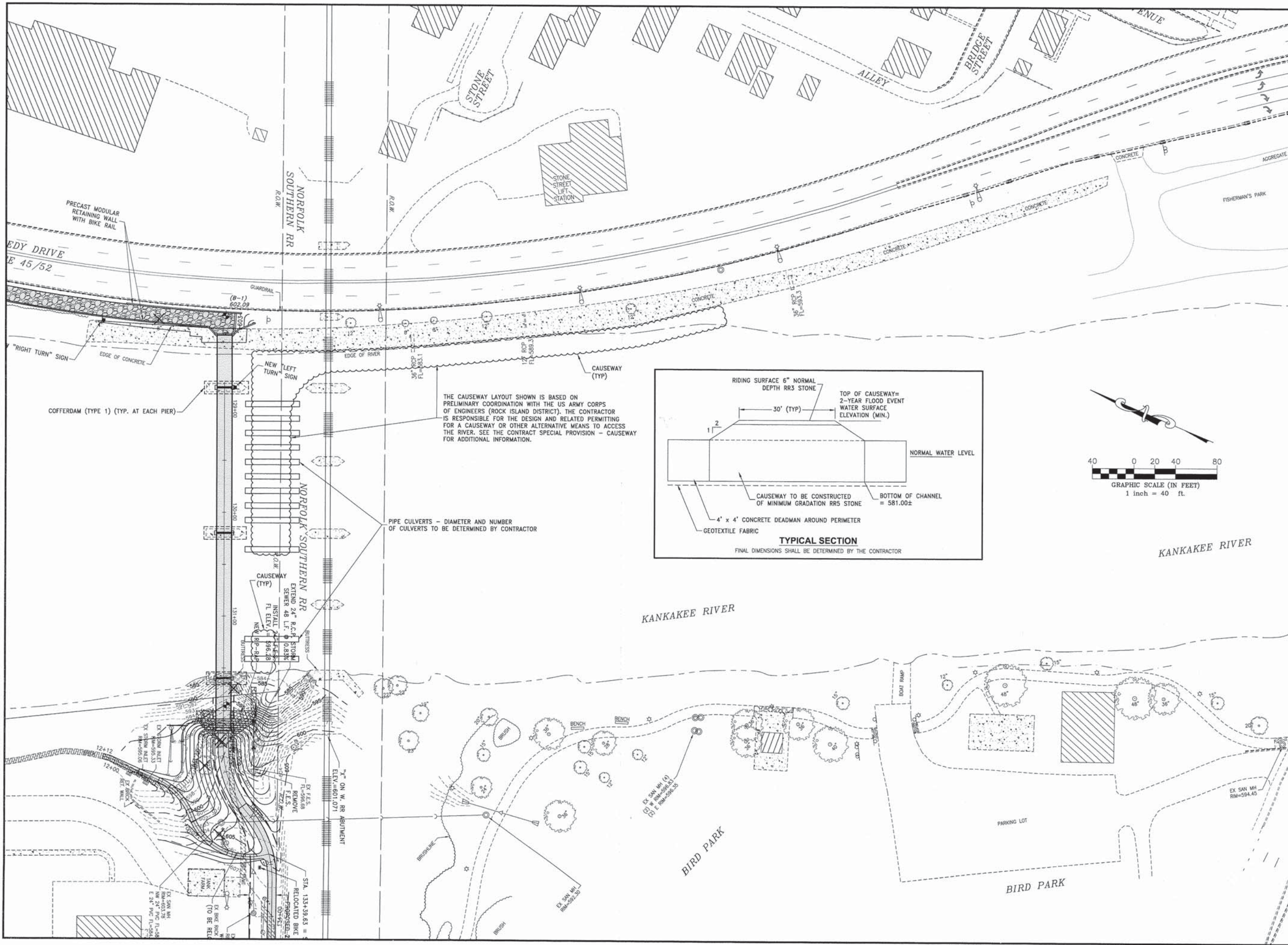
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2	10/20/15	NRD	PER CITY

STORM WATER POLLUTION PREVENTION PLAN

PROPOSED IMPROVEMENTS FOR
**RIVERFRONT TRAIL
PHASE 2B**
KANKAKEE, ILLINOIS

SECTION 10-00276-01-BT

DATE:	02/16/2015	JOB NO.	E10054
SCALE:	1"=40'	FILE NO.	
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CHECKED BY:	SRM	OF 25	



F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	*	KANKAKEE	25	12

CONTRACT NO. 87623

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NO.	DATE	BY	DESCRIPTION
2	10/20/15	NRD	PER CITY

CAUSEWAY

PROPOSED IMPROVEMENTS FOR
**RIVERFRONT TRAIL
 PHASE 2B**
 KANKAKEE, ILLINOIS

SECTION 10-00276-01-BT	
DATE: 10/07/15	JOB NO. E10054
SCALE: 1"=40'	FILE NO.
DRAWN BY: NRD	SHEET
CHECKED BY: SRM	12
	OF 25

GENERAL NOTES

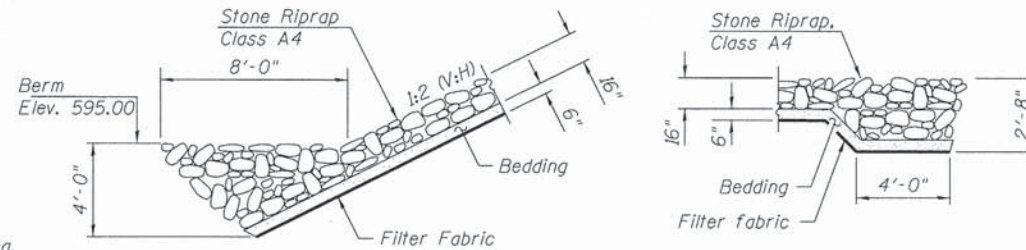
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Concrete Sealer shall be applied to the designated areas of the abutments and wingwalls.
- Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- Cofferdam design details shall be submitted to the Engineer for approval with the cofferdam design.
- Construction of cofferdams must not disturb sediment and silt.
- Due to reports of several listed mussel species within the vicinity of the project, after each cofferdam is in place and prior to dewatering, all live fish and mussels shall be removed from the work area.
- No in-stream work shall be conducted between April 1 and May 31 to protect fish spawning.
- All steel products shall be domestically produced in the United States of America.
- Contractor operations must not disturb existing overhead ComEd wires located west of proposed bridge. Contact ComEd for clearance requirements.

INDEX OF SHEETS

Sheet No.	Sheet Title
S-01	General Plan & Elevation
S-02	General Notes, Index of Sheets & Bill of Material
S-03	Superstructure Details
S-04	West Abutment Plan & Elevation
S-05	West Abutment Details
S-06	Pier Details
S-07	East Abutment Plan & Elevation
S-08	East Abutment Details
S-09	Retaining Walls Plan & Elevation I
S-10	Retaining Walls Plan & Elevation II
S-11	Bicycle Railing
S-12	Pile Details
S-13	Soil Boring Logs

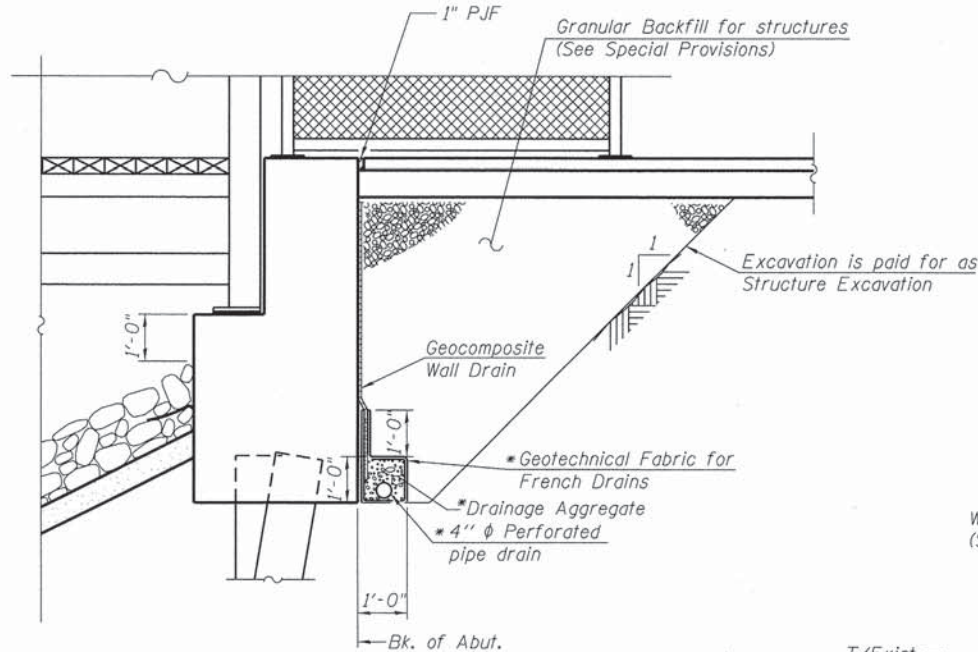
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUB	SUPER	TOTAL
Granular Backfill for Structures	Cu. Yd.	69.5	-	69.5
Stone Riprap, Class A4	Sq. Yd.	120.8	-	120.8
Filter Fabric	Sq. Yd.	96.3	-	96.3
Sloped Removal	Sq. Yd.	106	-	106
Structure Excavation	Cu. Yd.	539.8	-	539.8
Cofferdam (Type I)	Each	3	-	3
Concrete Structures	Cu. Yd.	214.3	-	214.3
Concrete Encasement	Cu. Yd.	1.8	-	1.8
Pedestrian Truss Superstructure	Sq. Ft.	-	5,718	5,718
Reinforcement Bars, Epoxy Coated	Pound	16,190	-	16,190
Bicycle Railing	Foot	752.2	-	752.2
Slope Wall 4 Inch	Sq. Yd.	106.0	-	106.0
Furnishing Steel Piles HP12x63	Foot	368.4	-	368.4
Driving Piles	Foot	368.4	-	368.4
Test Pile Steel HP12x63	Each	2	-	2
Pile Shoes	Each	24	-	24
Anchor Bolts, 3/4"	Each	-	32	32
Concrete Sealer	Sq. Ft.	249	-	249
Geocomposite Wall Drain	Sq. Yd.	44.2	-	44.2
Pipe Underdrains for Structures, 4"	Foot	20.0	-	20.0
Temporary Soil Retention System	Sq. Ft.	73.3	-	73.3
Precast Modular Retaining Wall	Sq. Ft.	4,936	-	4,936
Drill and Grout Stainless Steel Dowels	Each	108	-	108
Removal of Existing Bridge Piers	L. Sum	1	-	1



SECTION A-A

SECTION B-B

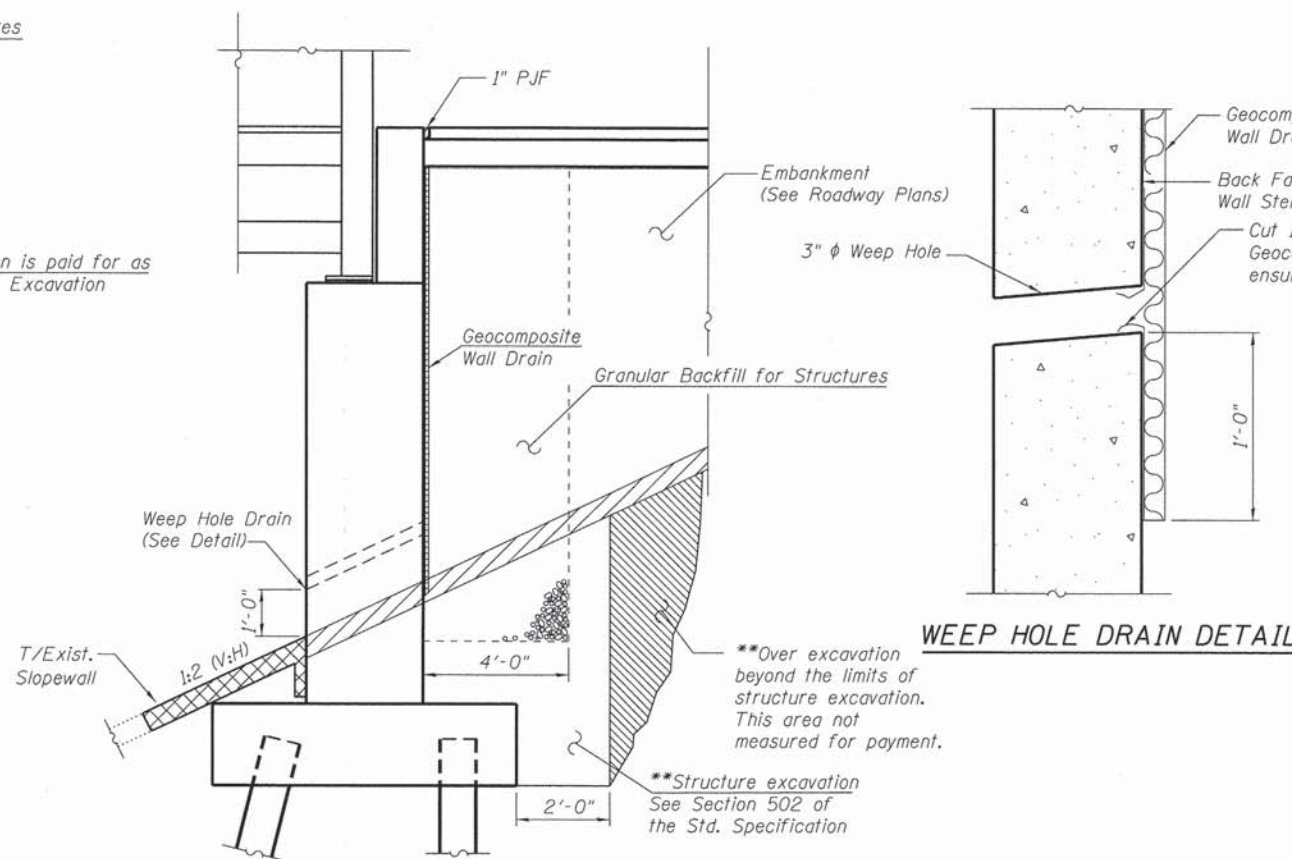


SECTION THRU PILE SUPPORTED STUB ABUTMENT
(Horiz. dim. @ Rt. L's)

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

Note:

All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

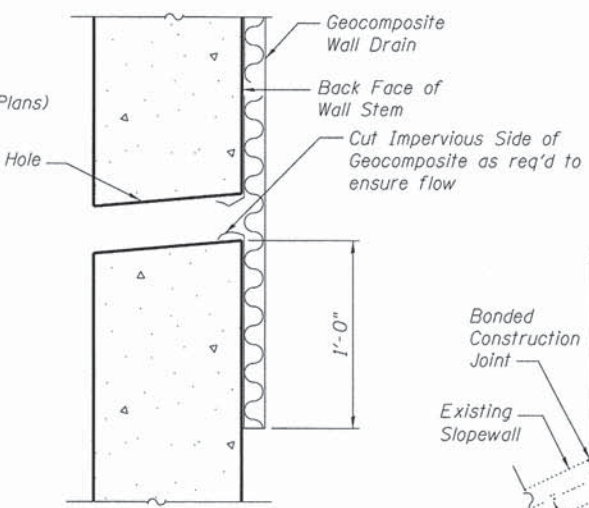


SECTION THRU EAST ABUTMENT

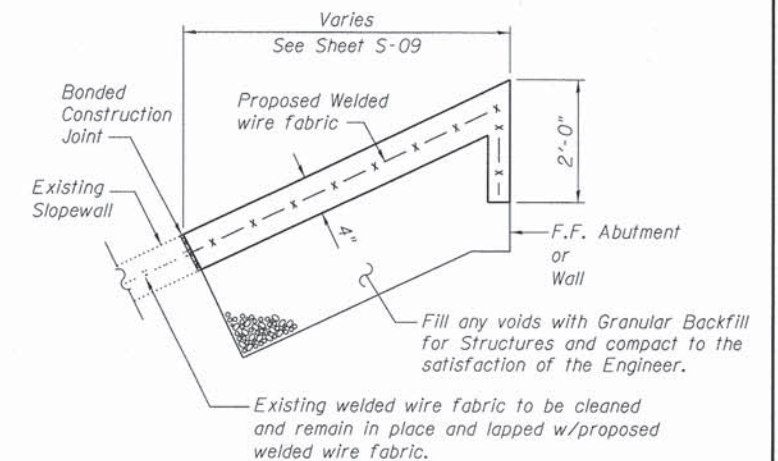
**Over excavation beyond the limits of structure excavation. This area not measured for payment.

**Structure excavation See Section 502 of the Std. Specification

** Backfill remainder of structure excavation and over excavation with same material specified for roadway embankment



WEEP HOLE DRAIN DETAIL



SLOPEWALL DETAIL

Note: Slopedwall shall be reinforced with welded wire fabric, 6 in. x 6 in. -W4.0 x w4.0, weighing 58 lbs. per 100sq. ft.



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225 WEST WASHINGTON STREET
12 TH FLOOR
CHICAGO, ILLINOIS 60606

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PLOT SCALE =	DRAWN - EF	REVISED
PLOT DATE =	CHECKED - CMM	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS
& BILL OF MATERIAL**

SHEET NO. 2 OF 13 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	S-02			

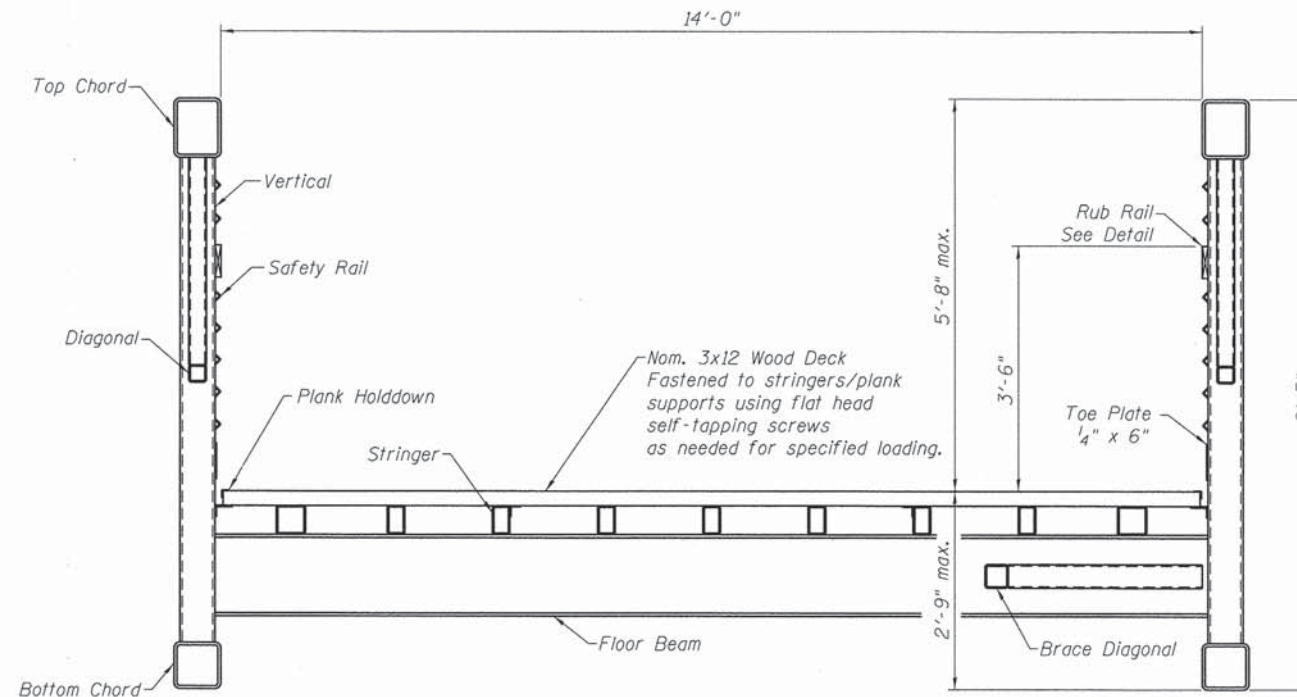
CONTRACT NO. 87623
ILLINOIS FED. AID PROJECT

GENERAL NOTES

- The gas metal arc welding process or flux cored arc welding process shall be used. Welding to be in accordance with AWS D1.1.
- All top and bottom chord shop splices to be complete penetration type welds.
- Unless otherwise noted, welded connections shall be fillet welds (or have the effective throat of a fillet weld) of a size equal to the thickness of the lightest gage member in the connection. Welds shall be applied as follows:
 - Both ends of verticals, diagonals, and floor beams shall be welded all around.
 - Brace diagonals shall be welded all around.
 - Miscellaneous non-structural members shall be stitch welded to their supporting members.
- See Special Provision for additional Loading Requirements.
- Cleaning: All exposed surfaces of steel shall be cleaned in accordance with steel structures painting council surfaces preparation specifications no. 7 brush-off blast cleaning. SSPC-SP7-latest edition.
- Minimum material thickness of 1/4" on all structural steel tube members. Minimum material thickness of 5/16" on all structural steel shape members.
- Weld testing: All weld testing shall be done by a person qualified I.A.W. ASNT SNT-TC-1A.
 - All full penetration welds in the chords are to be ultrasonically tested I.A.W. AWS specifications.
 - All fillet and partial penetration groove welds shall be visually inspected with 10% also being magnetic particle tested I.A.W. AWS specifications.
 - A written testing report shall be submitted upon completion.
- Bridge manufacturer to match overall top of top chord to bottom of bottom chord dimensions of the middle spans and end spans.
- Deck-to-stringer connection shall be designed by a Structural Engineer licensed in the State of Illinois, and calculations for and drawings of such details shall be submitted with the calculations and shop drawings outlined in the Specifications.

BRIDGE REACTION TABLE

	AT ABUTMENTS			AT PIERS 1 & 3						AT PIER 2		
	SPAN 1 OR SPAN 4			SPAN 1 OR SPAN 4		SPAN 2 OR SPAN 3		SPAN 2 OR SPAN 3				
	P (lb)	H (lb)	L (lb)	P (lb)	H (lb)	L (lb)	P (lb)	H (lb)	L (lb)	P (lb)	H (lb)	L (lb)
DEAD LOAD	9200	-	-	9200	-	-	30800	-	-	30800	-	-
UNIFORM LIVE LOAD	15750	-	-	15750	-	-	44100	-	-	44100	-	-
VEHICLE LOAD	10000	-	-	10000	-	-	10000	-	-	10000	-	-
WIND UPLIFT - WINDWARD	-6500	-	-	-6500	-	-	-17800	-	-	-17800	-	-
WIND UPLIFT - LEEWARD	-2200	-	-	-2200	-	-	-6300	-	-	-6300	-	-
WIND	+/-2600	8300	-	+/-2600	8300	-	+/-8500	23800	-	+/-8500	23800	-
THERMAL	-	-	1200	-	-	1200	-	-	4100	-	-	4100

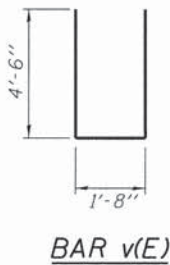
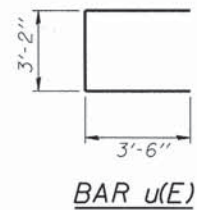
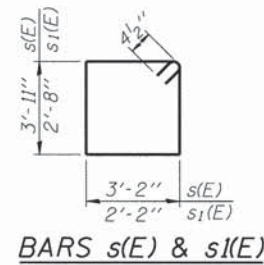
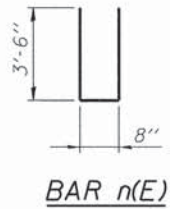
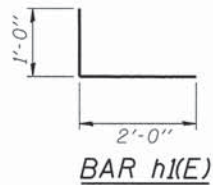


BRIDGE SECTION

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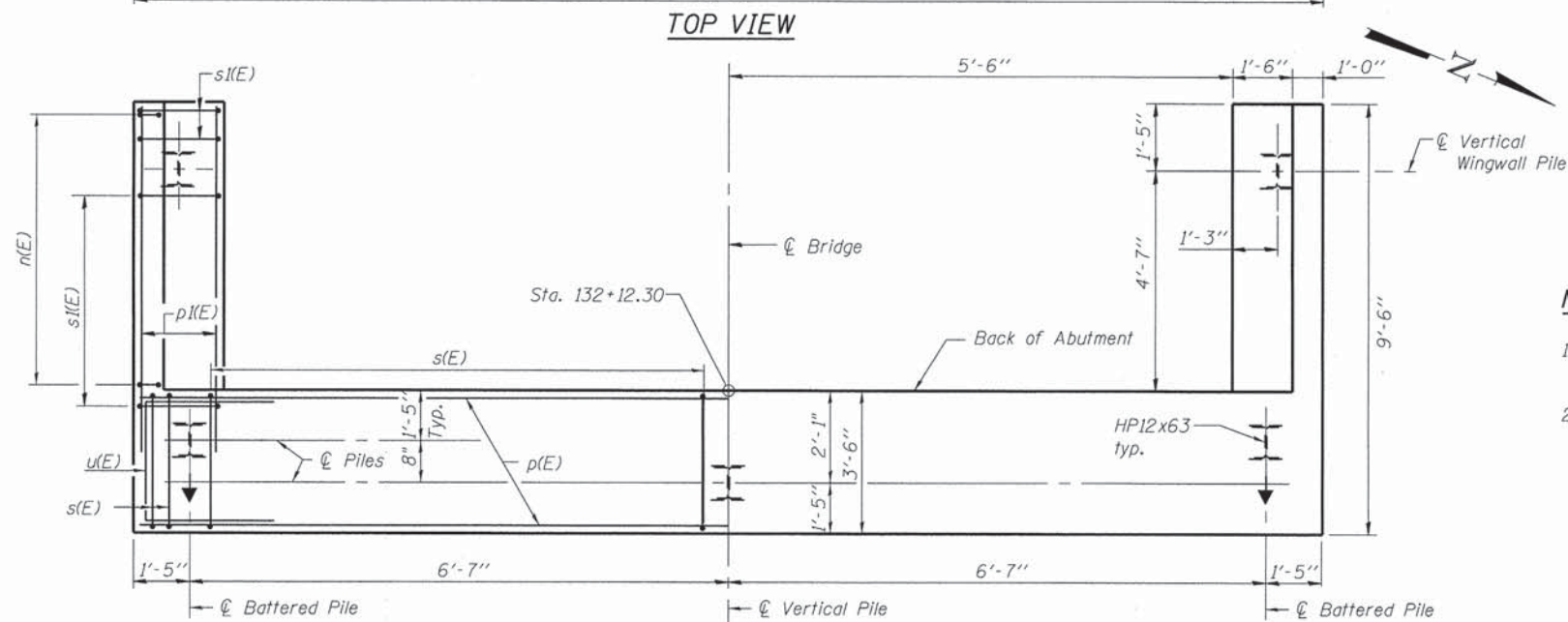
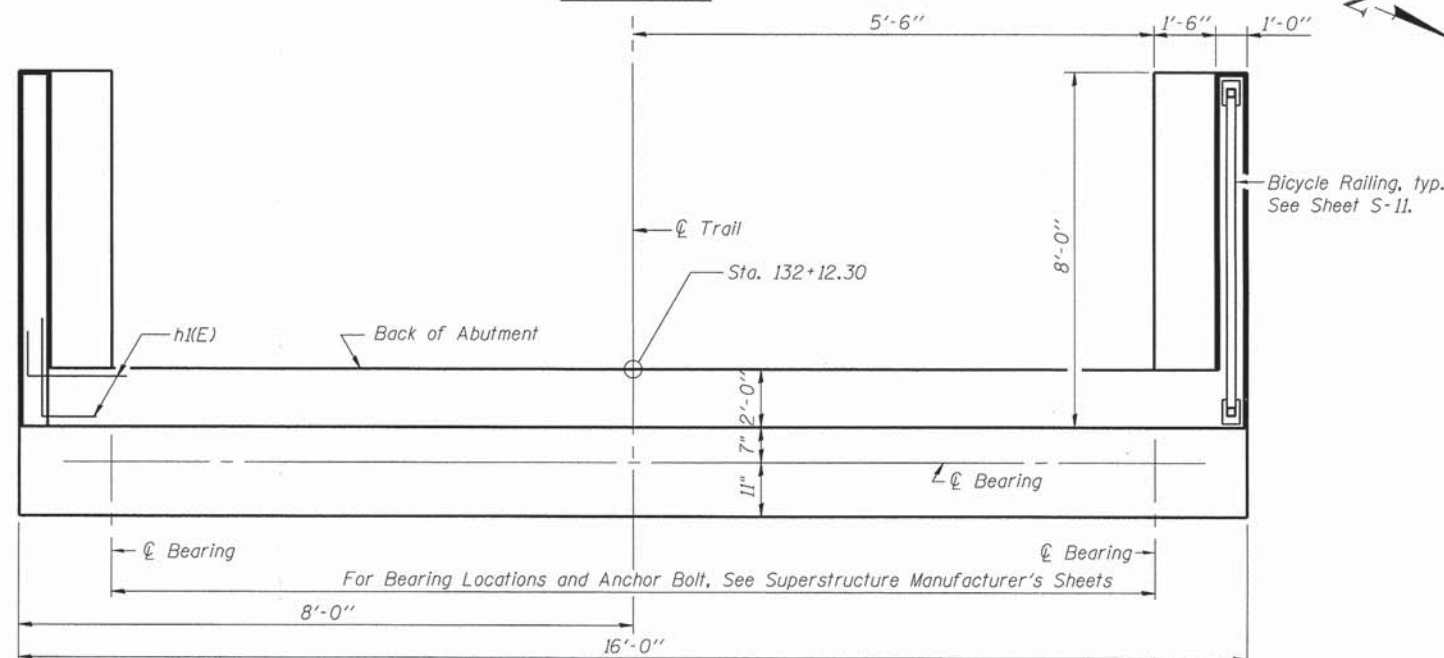
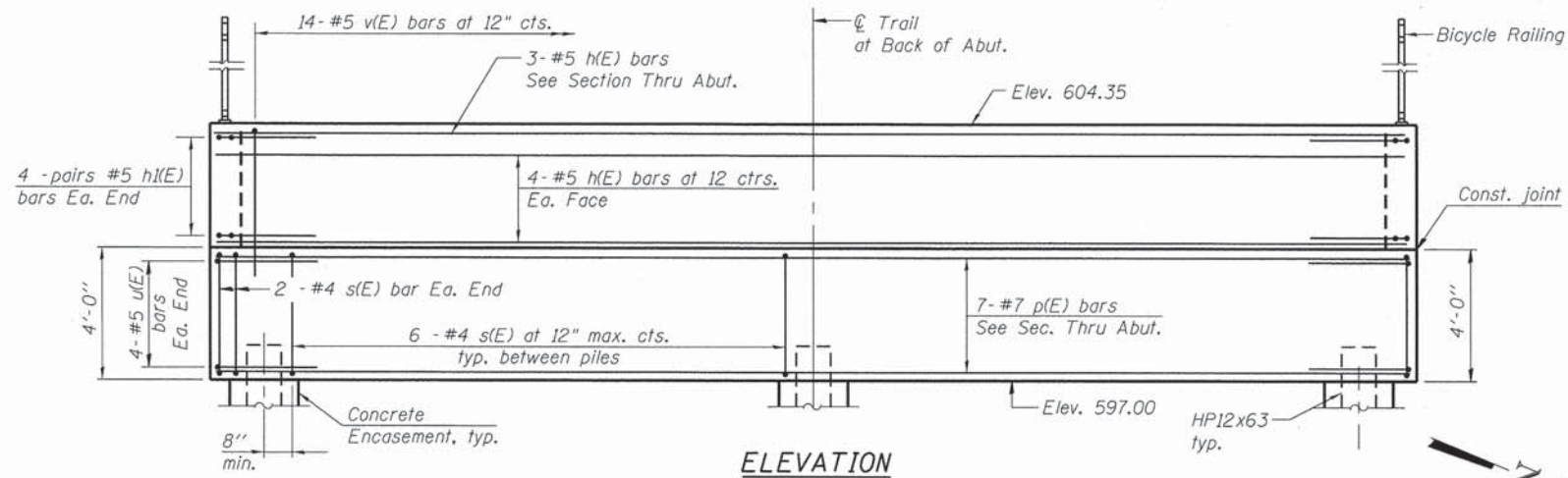
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	PLOT SCALE =	DRAWN - EF	REVISED			S-03	CONTRACT NO. 87623			
	PLOT DATE =	CHECKED - CMM	REVISED			SHEET NO. 3 OF 13 SHEETS				

ILLINOIS FED. AID PROJECT



PILE DATA

Type: HP 12X63 with pile shoes
Nominal Required Bearing: 201 k
Factored Resistance Available: 113 k
Est. Length: 23'-0"
No. Production Piles: 4
No. Test Piles: 1



ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	9	#5	15'-8"	—
h1(E)	16	#5	3'-0"	—
h2(E)	20	#4	7'-8"	—
n(E)	18	#6	7'-8"	—
p(E)	7	#7	15'-8"	—
p1(E)	14	#7	8'-6"	—
s(E)	16	#4	14'-11"	□
s1(E)	18	#4	10'-5"	□
u(E)	8	#5	10'-2"	—
v(E)	14	#5	10'-8"	—
v1(E)	36	#6	3'-0"	—
Structure Excavation		Cu. Yd.	12.7	
Concrete Structures		Cu. Yd.	17.5	
Reinforcement Bars, Epoxy Coated		Pound	1,670	
Furnishing Steel - Piles, HP12x63		Foot	93.4	
Driving Piles		Foot	93.4	
Test Pile, HP12x63		Each	1	
Pile Shoes		Each	5	
Concrete Encasement		Cu. Yd.	1.8	
Concrete Sealer		Sq. Ft.	122	

NOTES

- For details of piles and Concrete Encasement, see Sheet S-12.
- Concrete Sealer shall be applied to Top of bearing seat, Front Face and Top of Backwall and Top of Wingwalls.

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225 WEST WASHINGTON STREET
12 TH FLOOR
CHICAGO, ILLINOIS 60606

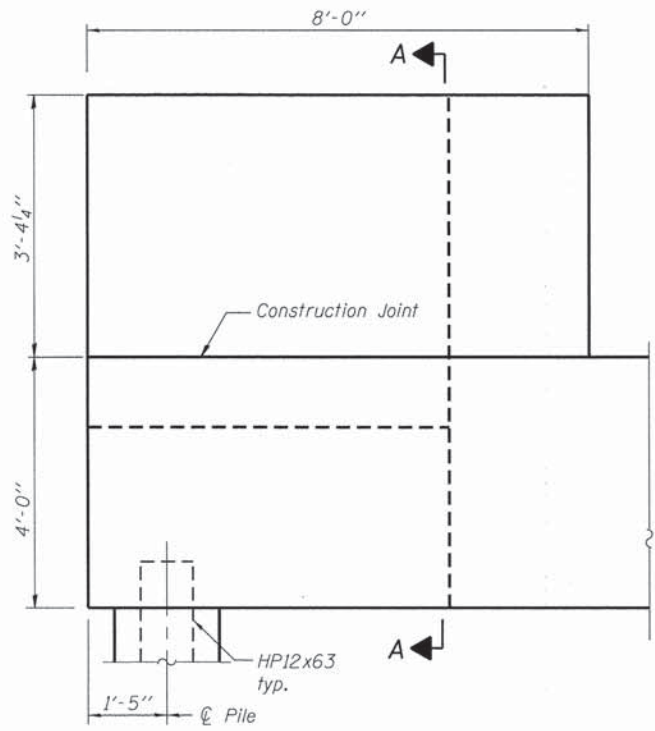
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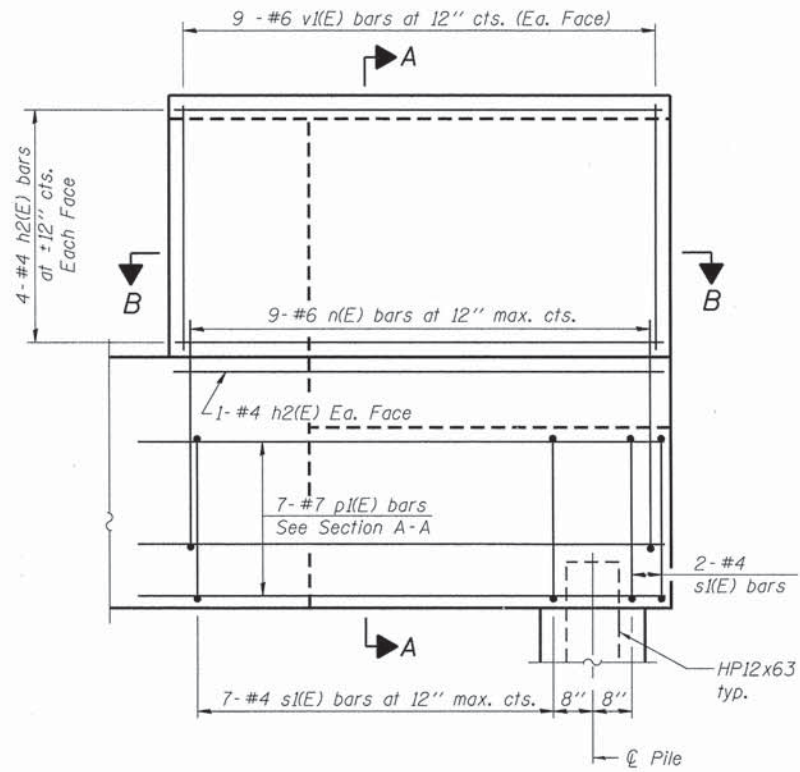
WEST ABUTMENT PLAN & ELEVATION

SHEET NO. 4 OF 13 SHEETS

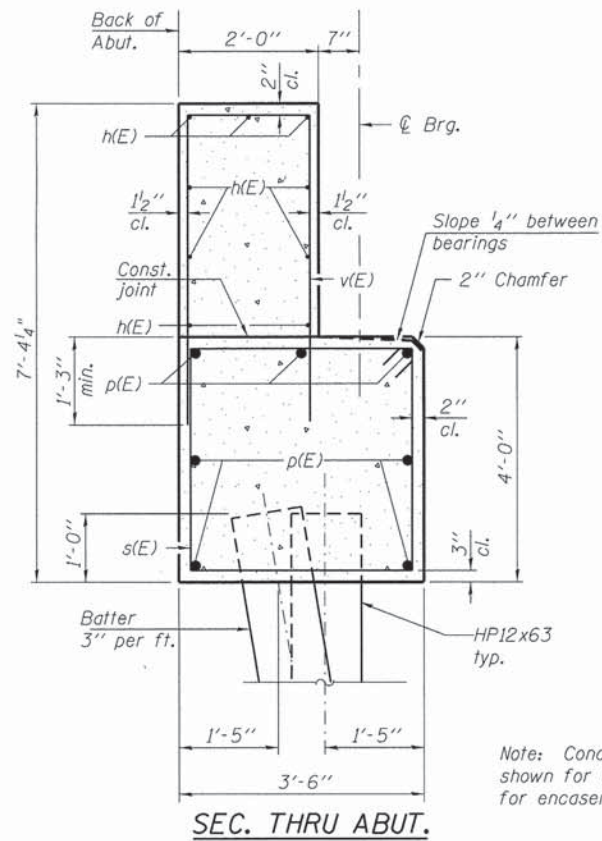
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	10-00276-01-BT	KANKAKEE	25	16
	S-04			CONTRACT NO. 87623
[ILLINOIS] FED. AID PROJECT				



WING WALL ELEVATION
Showing Dimensions

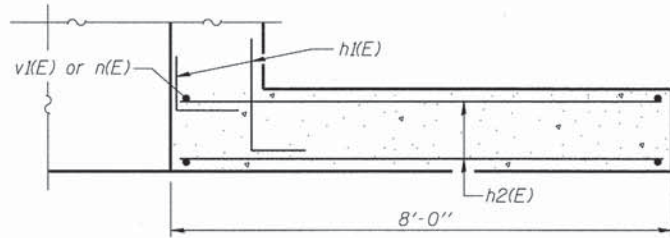


WING WALL ELEVATION
Showing Reinforcement

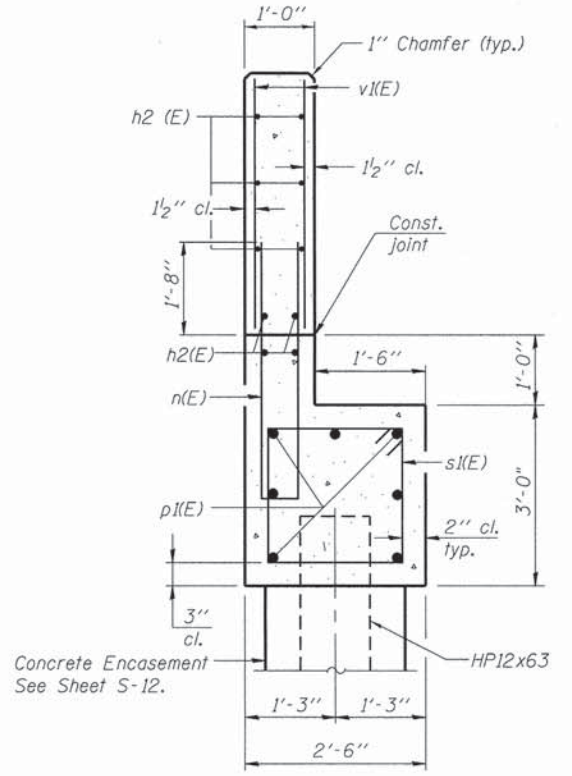


SEC. THRU ABUT.

Note: Concrete encasements not shown for clarity. See Sheet S-12 for encasement details.



SECTION B-B

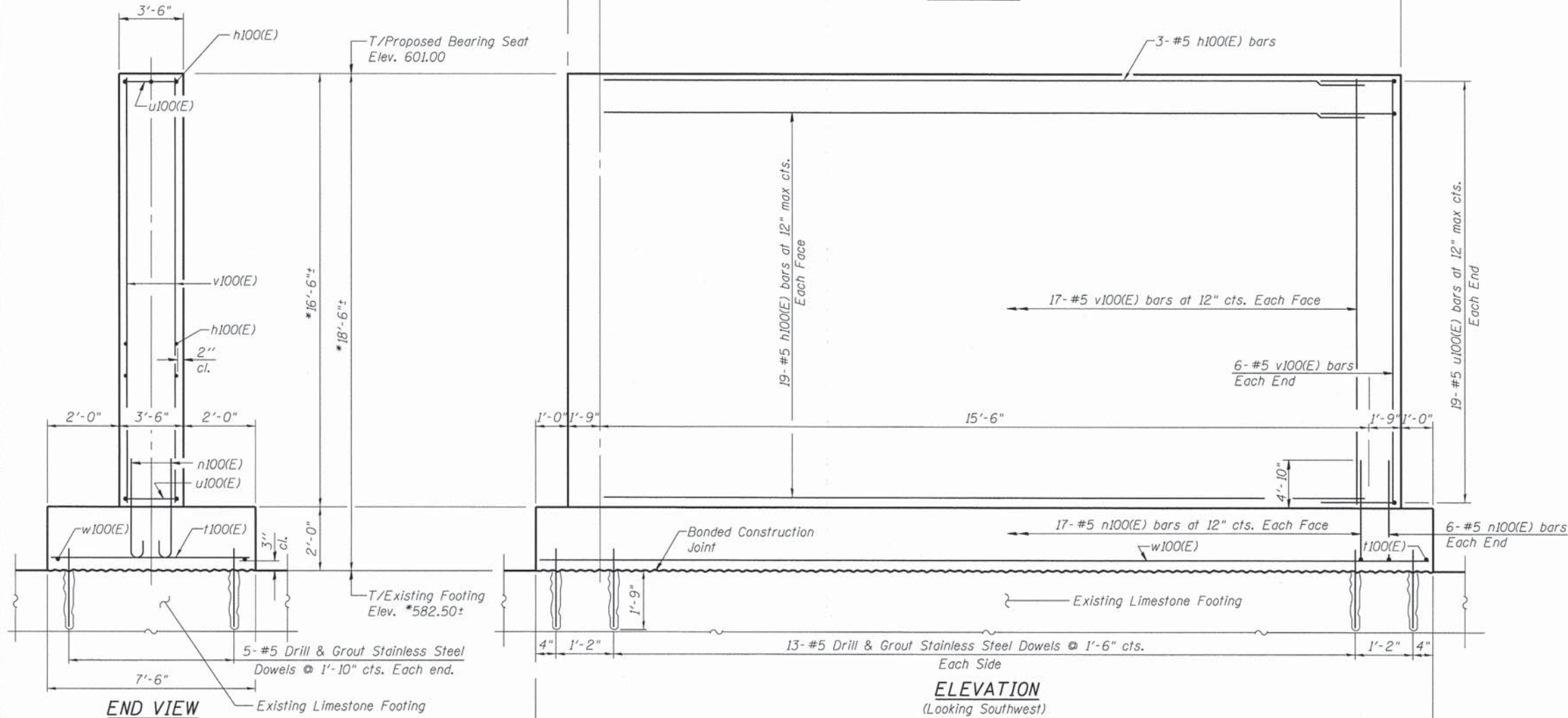
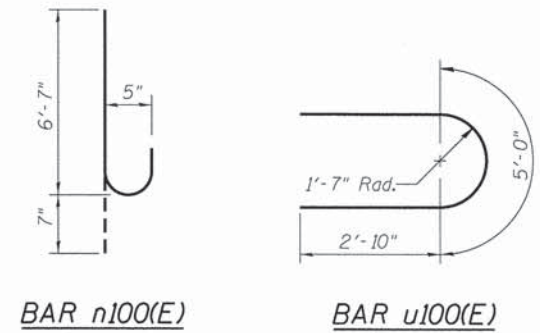
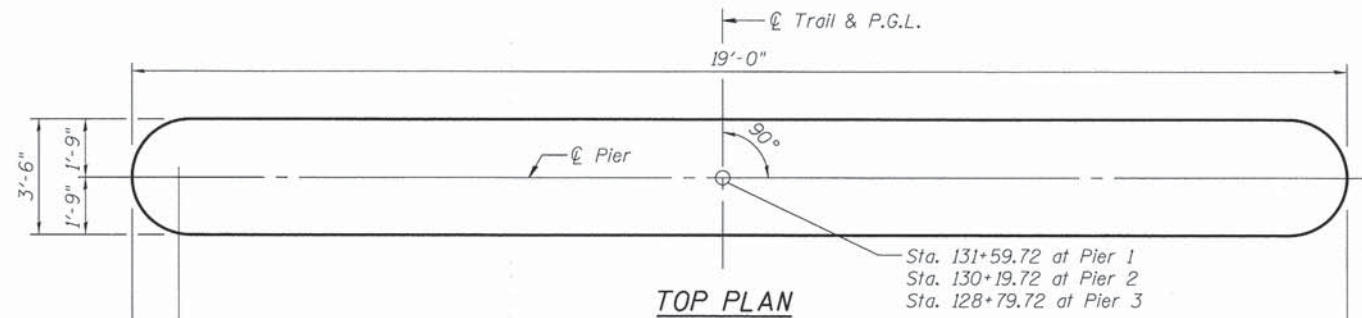


SECTION A-A

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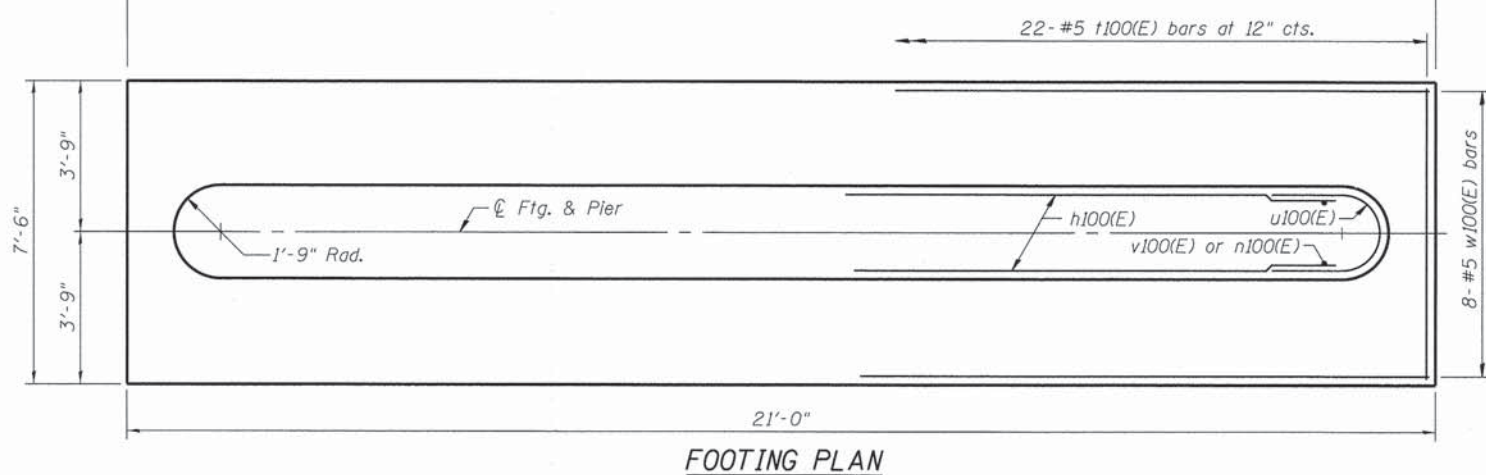
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	PLOT DATE =	CHECKED - CMM	REVISED			ILLINOIS FED. AID PROJECT				
SHEET NO. 5 OF 13 SHEETS										

Notes:
Space reinforcement in cap to miss anchor bolts.
Coordinate with superstructure manufacturer.



BILL OF MATERIAL
(for 3 piers)

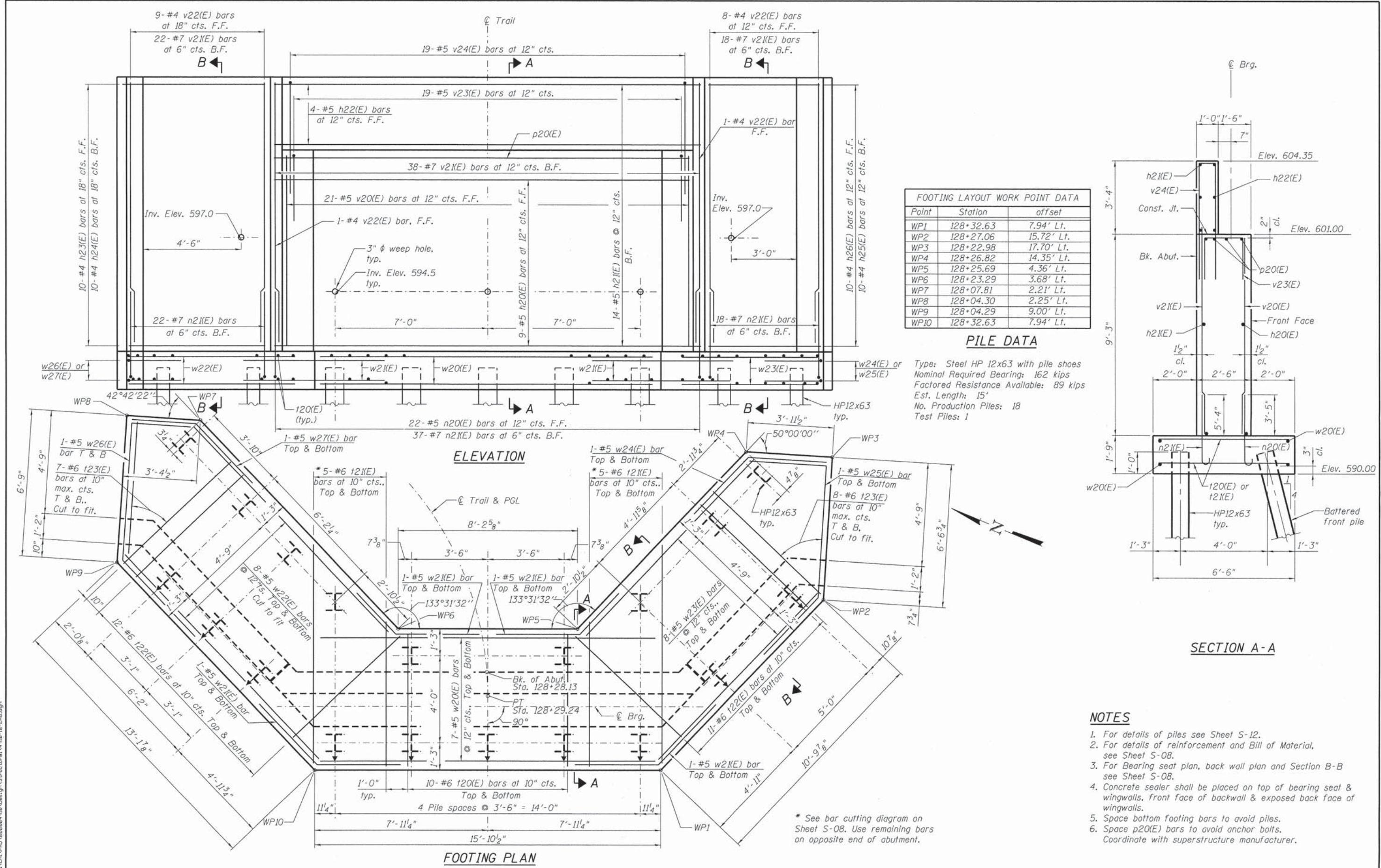
Bar	No.	Size	Length	Shape
h100(E)	117	#5	15'-6"	—
n100(E)	138	#5	7'-2"	U
t100(E)	66	#5	7'-2"	—
u100(E)	114	#5	10'-8"	U
v100(E)	138	#5	16'-2"	—
w100(E)	24	#5	20'-6"	—
Structure Excavation			Cu. Yd.	15.4
Concrete Structures			Cu. Yd.	152.0
Reinforcement Bars, Epoxy Coated			Pound	7,530
Drill and Grout Stainless Steel Dowels			Each	108



*Exact elevation of top of existing footing is an estimated value. Hold T/Proposed bearing seat elevation and lengthen pier stem as required to satisfy site geometry.

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 12 TH FLOOR
 CHICAGO, ILLINOIS 60606

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT PLAN & ELEVATION
 SHEET NO. 7 OF 13 SHEETS

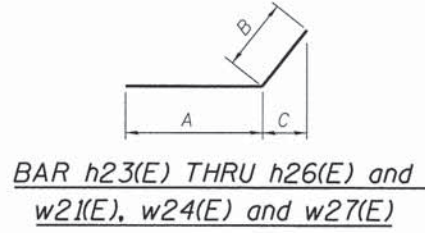
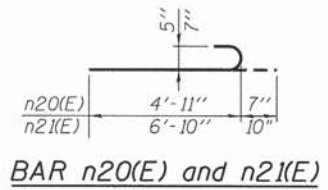
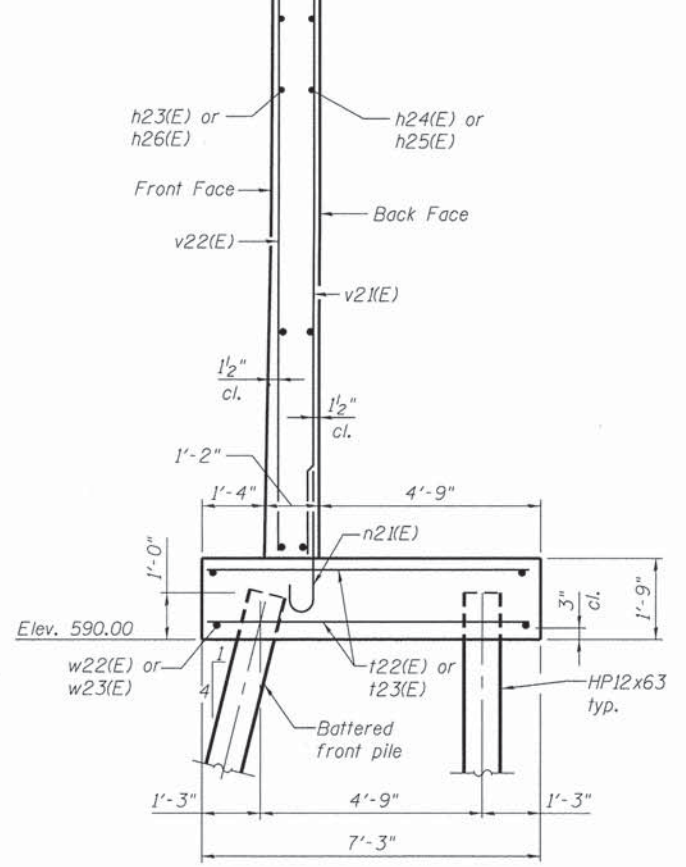
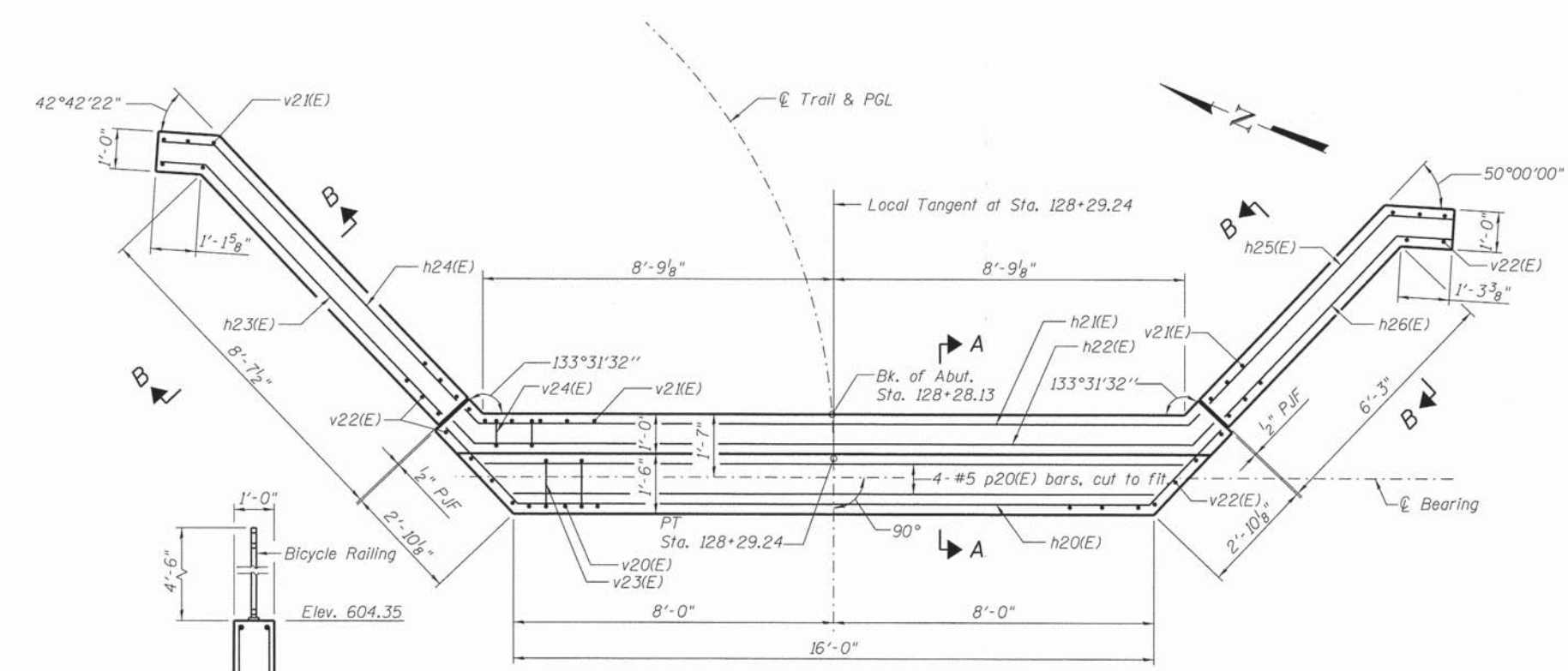
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	10-00276-01-BT	KANKAKEE	25	19
	S-07		CONTRACT NO. 87623	
ILLINOIS FED. AID PROJECT				

- NOTES**
- For details of piles see Sheet S-12.
 - For details of reinforcement and Bill of Material, see Sheet S-08.
 - For Bearing seat plan, back wall plan and Section B-B see Sheet S-08.
 - Concrete sealer shall be placed on top of bearing seat & wingwalls, front face of backwall & exposed back face of wingwalls.
 - Space bottom footing bars to avoid piles.
 - Space p20(E) bars to avoid anchor bolts. Coordinate with superstructure manufacturer.

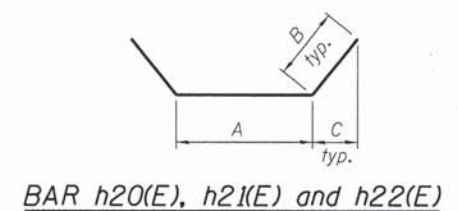
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**EAST ABUTMENT
BILL OF MATERIAL**

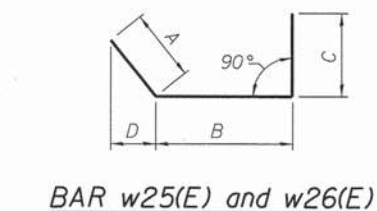
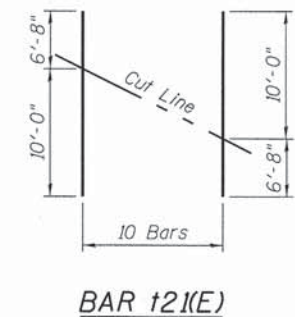
Bar	No.	Size	Length	Shape
h20(E)	9	#5	19'-6"	
h21(E)	14	#5	17'-10"	
h22(E)	4	#5	19'-8"	
h23(E)	10	#4	9'-10"	
h24(E)	10	#4	9'-0"	
h25(E)	10	#4	7'-10"	
h26(E)	10	#4	7'-0"	
n20(E)	22	#5	5'-6"	
n21(E)	77	#7	7'-8"	
p20(E)	4	#5	18'-6"	
t20(E)	20	#6	6'-2"	
t21(E)	10	#6	16'-8"	
t22(E)	48	#6	6'-11"	
t23(E)	30	#6	7'-3"	
v20(E)	21	#5	8'-11"	
v21(E)	78	#7	12'-4"	
v22(E)	19	#4	12'-4"	
v23(E)	19	#5	7'-2"	
v24(E)	19	#5	13'-0"	
w20(E)	14	#5	15'-6"	
w21(E)	8	#5	7'-4"	
w22(E)	16	#5	15'-0"	
w23(E)	16	#5	13'-3"	
w24(E)	2	#5	7'-3"	
w25(E)	2	#5	13'-5"	
w26(E)	2	#5	13'-1"	
w27(E)	2	#5	6'-8"	
Structure Excavation		Cu. Yd.	111.6	
Concrete Structures		Cu. Yd.	44.8	
Reinforcement Bars, Epoxy Coated		Pound	6,690	
Furnishing Steel Piles, HP12x63		Foot	275.0	
Driving Piles		Foot	275.0	
Test Pile, HP12x63		Each	1	
Pile Shoes		Each	19	
Concrete Sealer		Sq. Ft.	127	



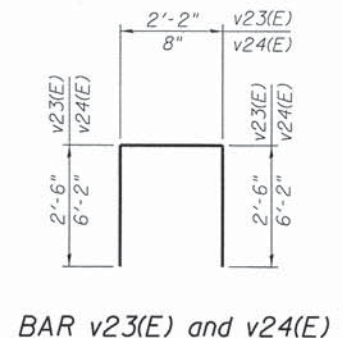
Bar	A	B	C
h23(E)	8'-6"	1'-1"	1'-0"
h24(E)	8'-1"	1'-6"	8"
h25(E)	6'-4"	1'-4"	11 1/2"
h26(E)	5'-11"	11"	8"
w21(E)	3'-8"	3'-8"	2'-6"
w24(E)	3'-7"	3'-8"	2'-4"
w27(E)	3'-8"	3'-0"	2'-2"



Bar	A	B	C
h21(E)	15'-10"	1'-10"	1'-3"
h22(E)	17'-2"	4"	2 3/4"
h23(E)	18'-6"	7"	4 3/4"



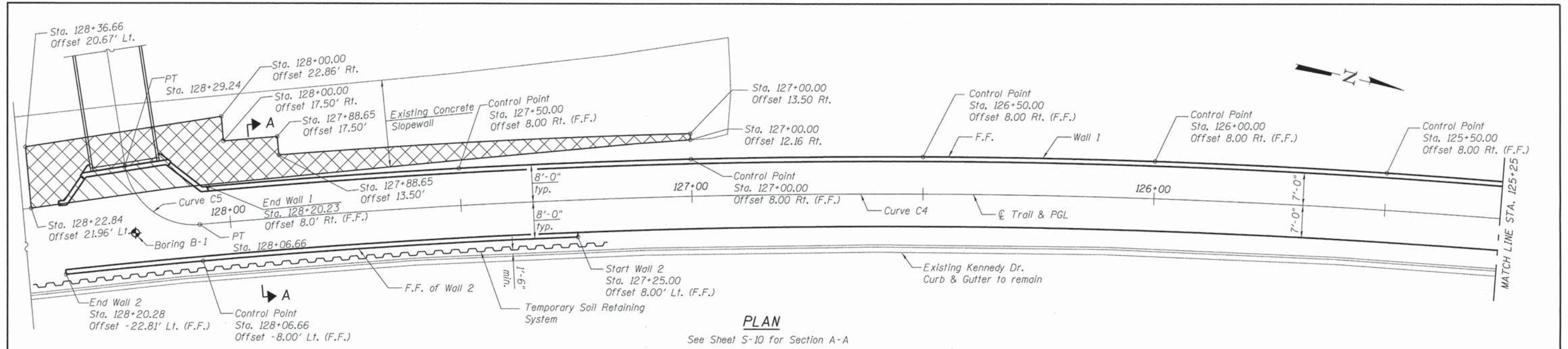
Bar	A	B	C	D
w25(E)	3'-8"	6'-2"	3'-7"	2'-4"
w26(E)	3'-8"	6'-5"	3'-0"	2'-9"



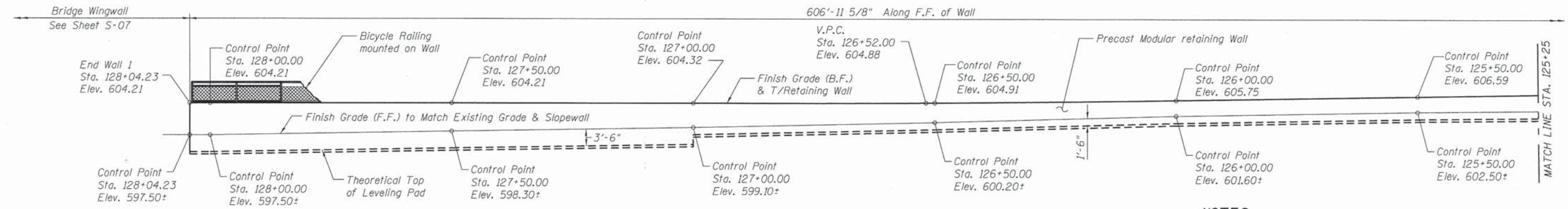
NOTES

1. Work this sheet with Sheet S-07.
2. For details of piles see Sheet S-12.
3. Space p20(E) bars to avoid anchor bolts. Coordinate with superstructure manufacturer.

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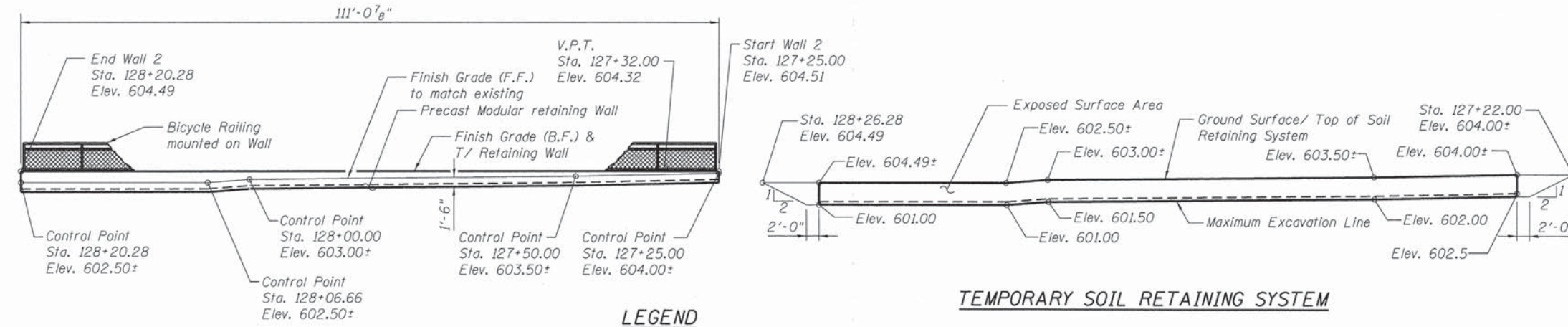
PLAN
See Sheet S-10 for Section A-A



WALL 1 ELEVATION
(Looking at F.F. of wall)

NOTES

- Design criteria and construction requirements of Precast Modular Retaining Wall shall conform to requirements of the latest IDOT Guide Bridge Special Provisions (GBSP) No. 65 "PRECAST MODULAR RETAINING WALL"
- The wall system shown in section is conceptual and details will vary based on the actual wall supplied. The wall system supplier shall submit complete design calculations and shop drawings of the precast modular retaining wall signed and sealed by an Illinois Licensed Structural Engineer to Illinois Department of Transportation for approval prior to commencement of construction.
- Soil bearing resistance must be verified in the field by the Engineer during the foundation excavation to ensure that the precast modular retaining wall is founded on suitable soil with a minimum factored bearing resistance of 2,000 psf. The maximum applied equivalent uniform bearing pressure under each module width shall not exceed the factored bearing resistance of 2,000 psf for foundation on the fill, if the leveling pad is set below Elev. 593.6, in the existing clay layer, maximum applied equivalent uniform bearing pressure shall not exceed the factored bearing resistance of 5,000 psf.
- A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
- See Sheet S-01 for horizontal and vertical curve data.
- Bicycle railing to be mounted on T/Wall full length of Wall 1 and Wall 2. See Sheet S-11 details.
- See Roadway Drawings for trail pavement and subgrade details.



WALL 2 ELEVATION
(Looking at F.F. of wall)

LEGEND
 F.F. = Front Face
 B.F. = Back Face
 ⬥ - Soil Boring Location
 [Cross-hatched] Slopewall Removal and placement of Slopewall, 4 inch
 [Diagonal lines] Slopewall Removal

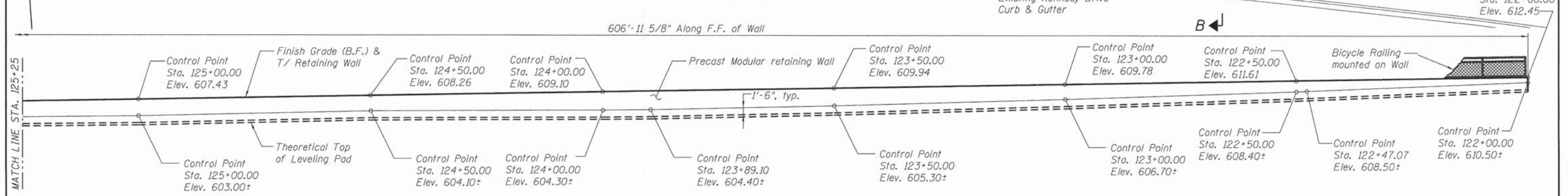
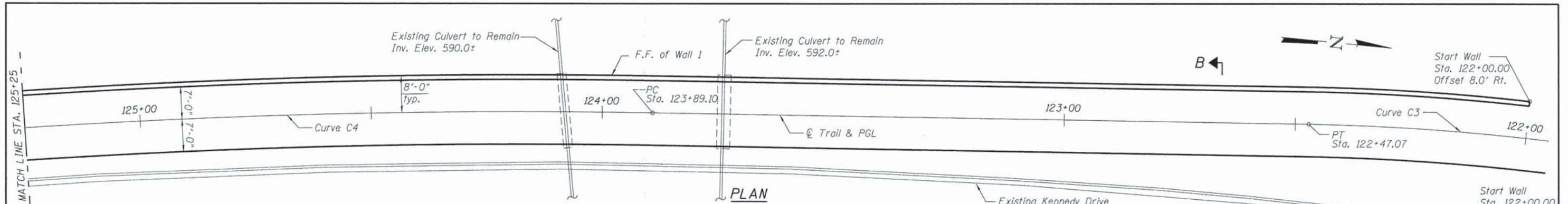
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALLS
PLAN & ELEVATION I
SHEET NO. 9 OF 13 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00276-01-BT	KANKAKEE	25	21
	S-09			CONTRACT NO. 87623
ILLINOIS FED. AID PROJECT				

LOCHNER
H. W. LOCHNER, INC.
225 WEST WASHINGTON STREET
12 TH FLOOR
CHICAGO, ILLINOIS 60606

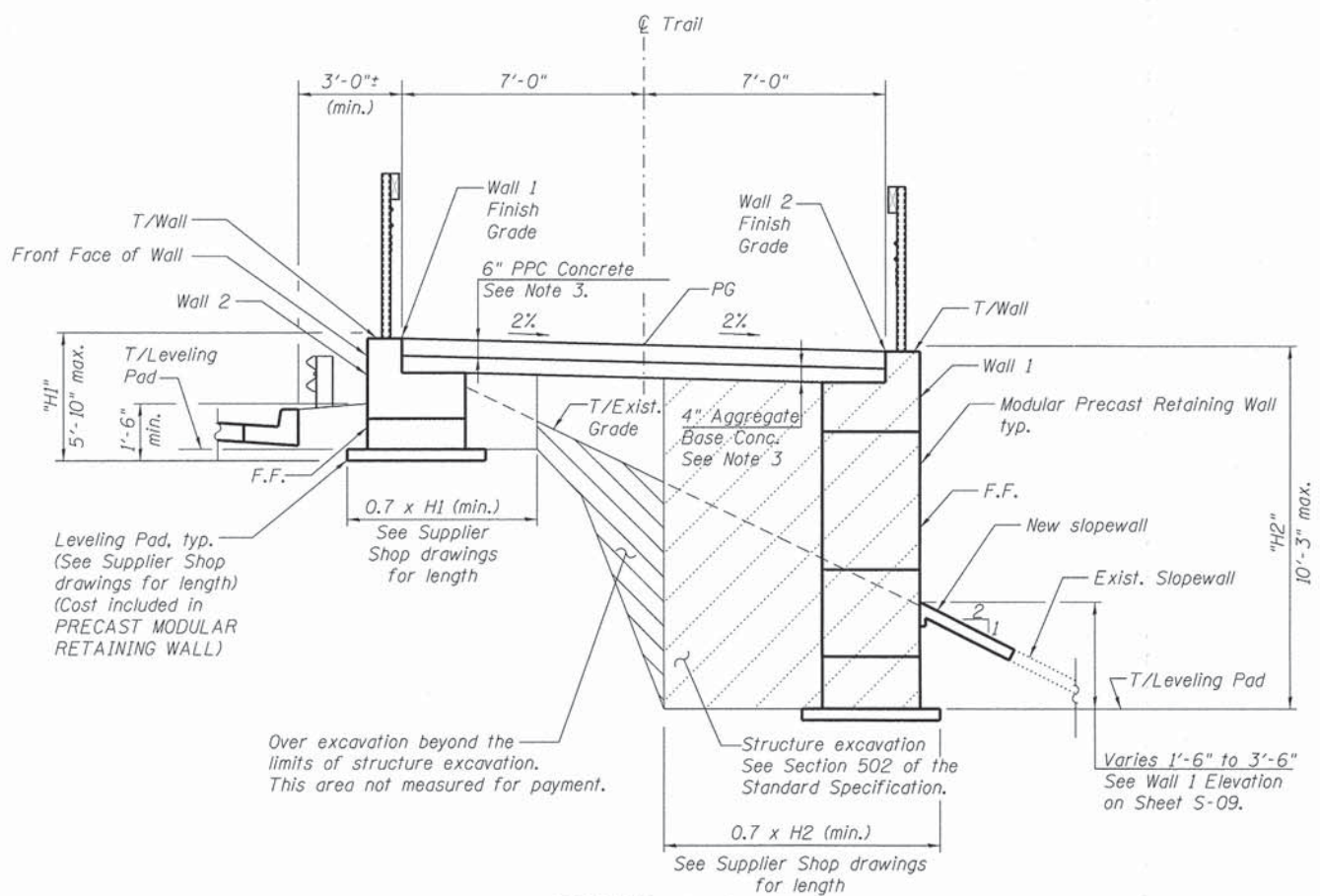
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	RWC	REVISED
	EF	REVISED
	CMM	REVISED



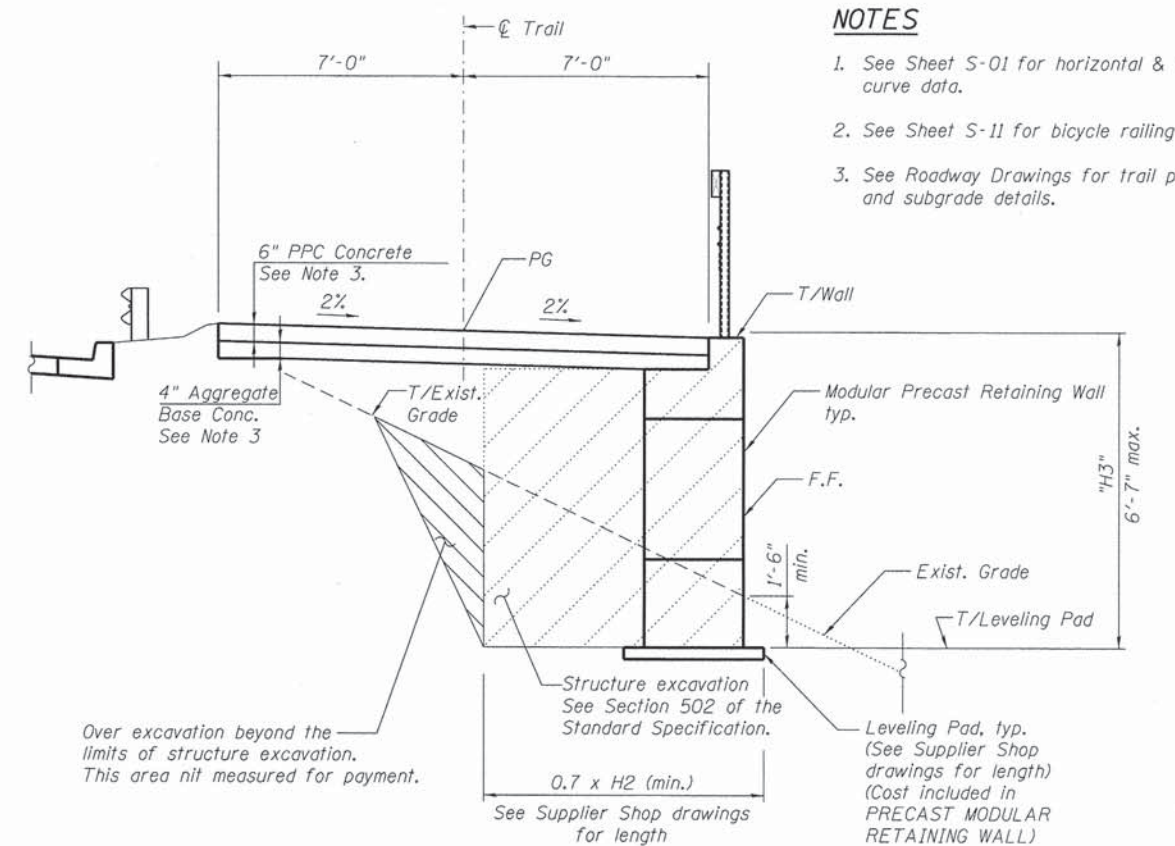
WALL 1 ELEVATION
(Looking at F.F. of wall)

NOTES

1. See Sheet S-01 for horizontal & vertical curve data.
2. See Sheet S-11 for bicycle railing details.
3. See Roadway Drawings for trail pavement and subgrade details.



SECTION A-A
See sheet S-09 for location.

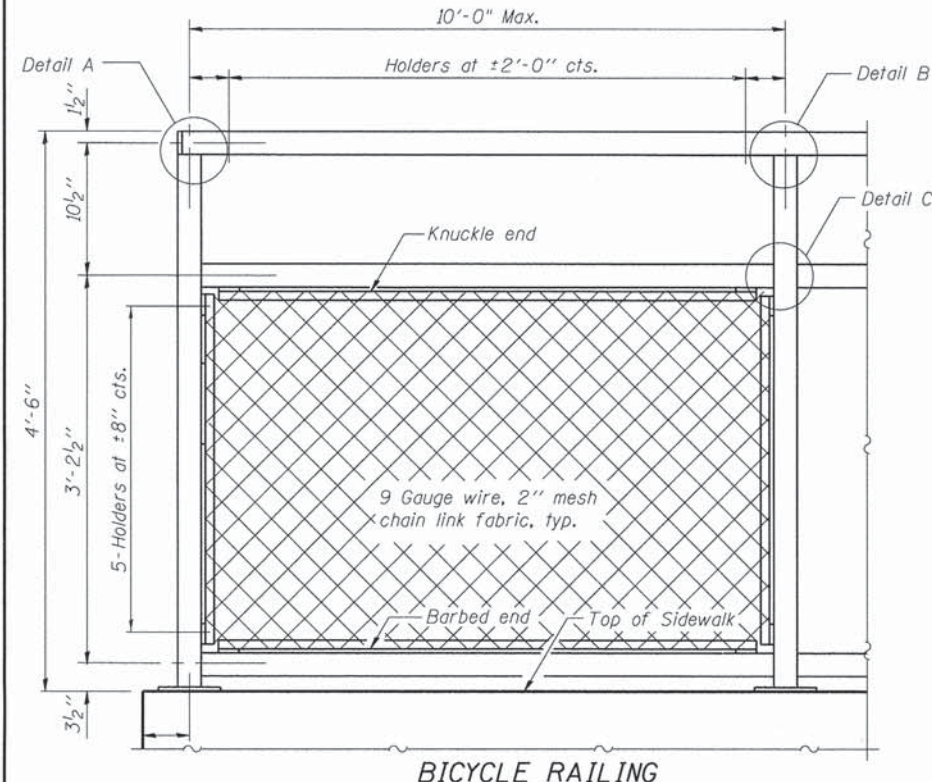


SECTION B-B

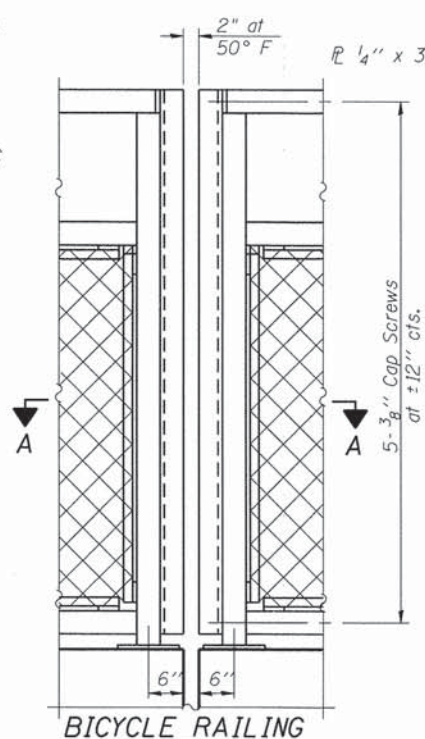
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LOCHNER H. W. LOCHNER, INC. 225 WEST WASHINGTON STREET 12 TH FLOOR CHICAGO, ILLINOIS 60606	USER NAME =	DESIGNED - CMM	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RETAINING WALLS PLAN & ELEVATION II		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT SCALE =	DRAWN - EF	REVISED		S-10	CONTRACT NO. 87623					
	PLOT DATE =	CHECKED - CMM	REVISED		ILLINOIS FED. AID PROJECT						
					SHEET NO. 10 OF 13 SHEETS						

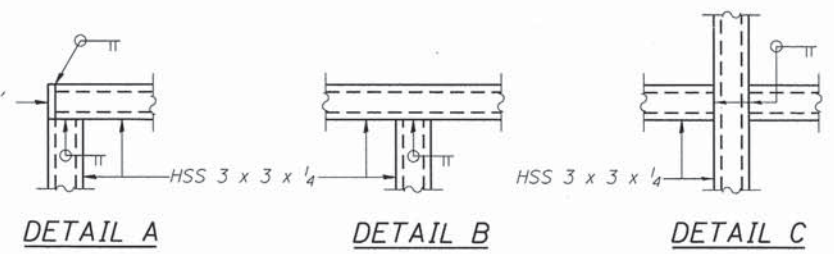
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



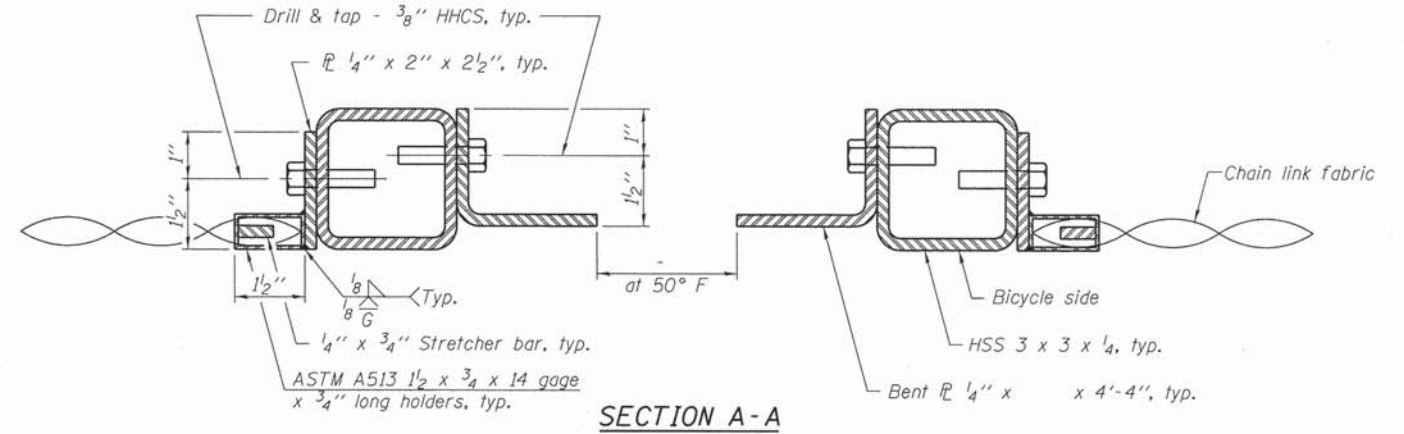
BICYCLE RAILING



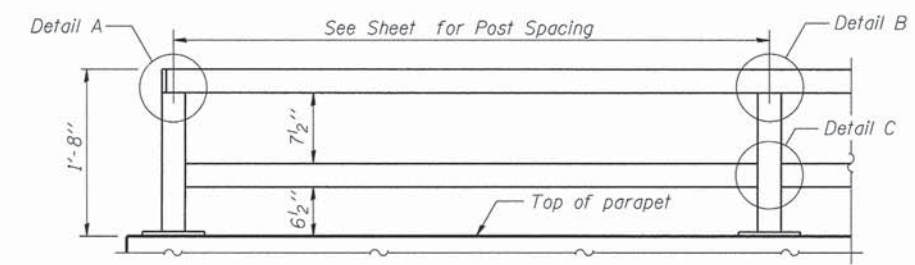
BICYCLE RAILING



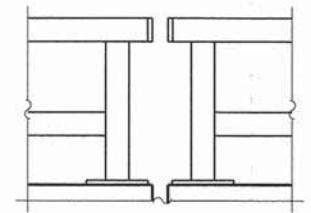
DETAIL A DETAIL B DETAIL C



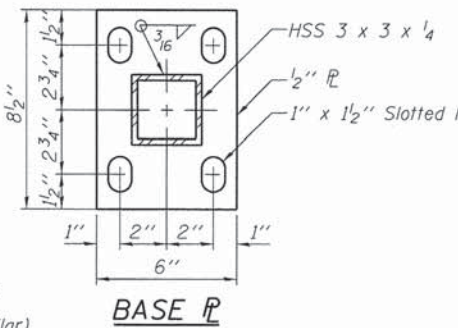
SECTION A-A



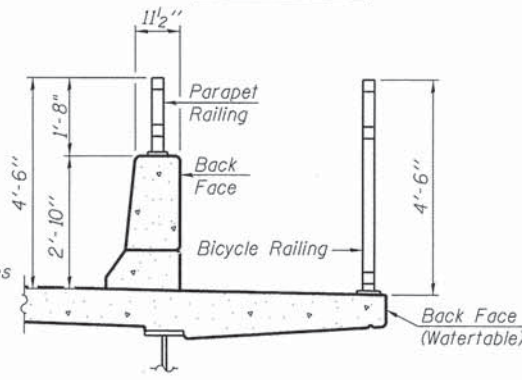
**PARAPET RAILING
ELEVATION
(Inside Face of Two Element Rail)**



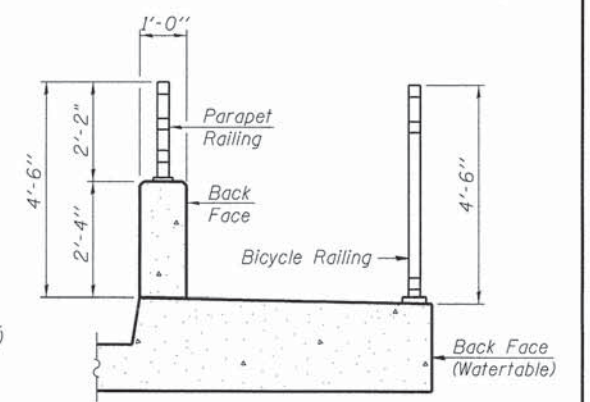
**PARAPET RAILING
ELEVATION AT EXPANSION JOINT
(Two Element Rail Shown - Three Element Rail Similar)**



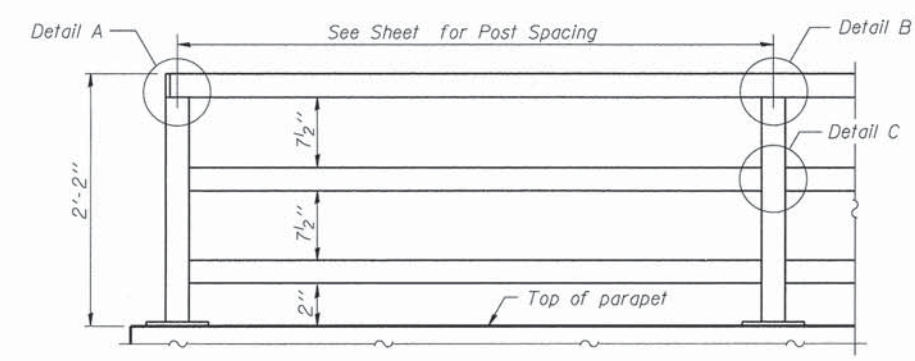
BASE PL



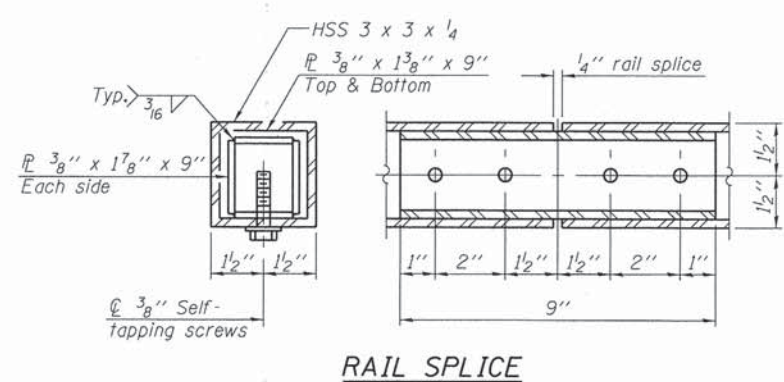
SECTION THRU DECK



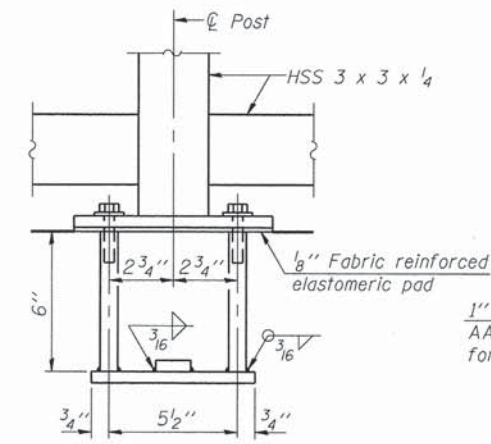
SECTION THRU SIDEWALK



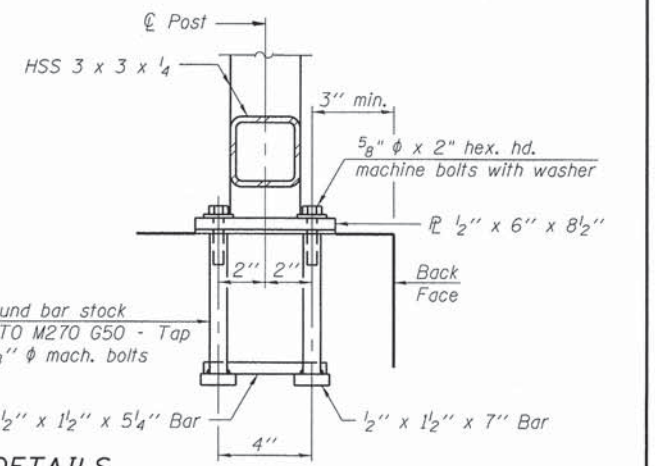
**PARAPET RAILING
ELEVATION
(Inside Face of Three Element Rail)**



RAIL SPLICE



ANCHOR BOLT DETAILS



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

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	799.8

NOTES

- See Sheet S-05 for Section thru West Abutment Wingwall.
- See Sheet S-08 for Section thru East Abutment Wingwalls.
- See Sheet S-10 for Sections thru Retaining Walls.

LOCHNER
H. W. LOCHNER, INC.
225 WEST WASHINGTON STREET
12 TH FLOOR
CHICAGO, ILLINOIS 60606

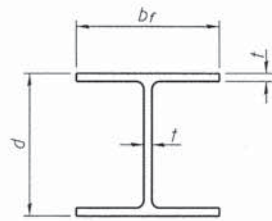
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BICYCLE RAILING

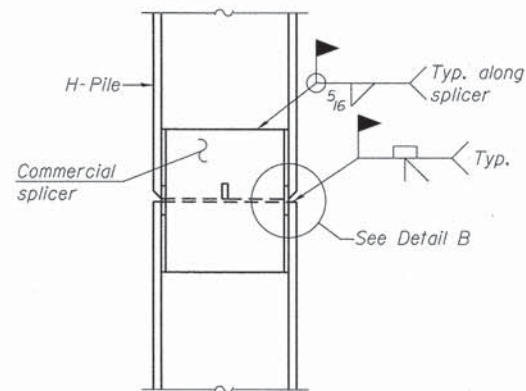
SHEET NO. 11 OF 13 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00276-01-BT	KANKAKEE	25	23
	S-11		CONTRACT NO. 87623	
ILLINOIS FED. AID PROJECT				

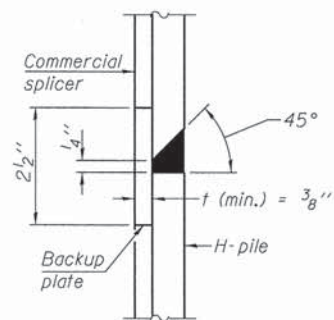


STEEL PILE TABLE

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

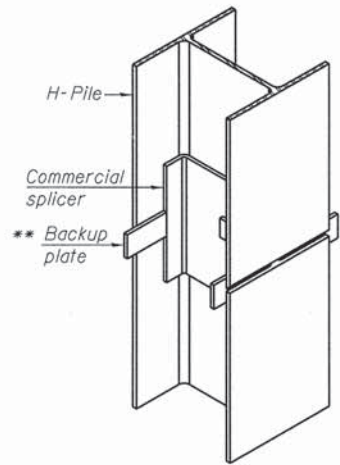


ELEVATION

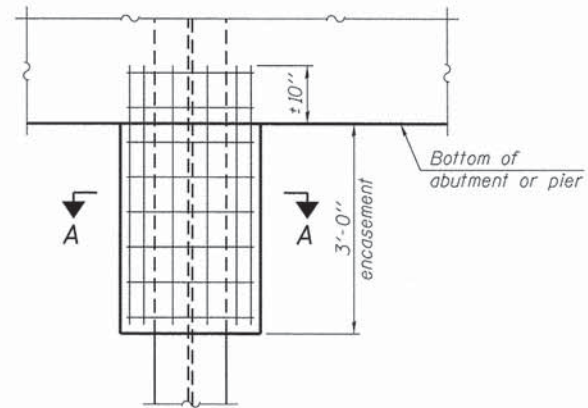


DETAIL "B"

WELDED COMMERCIAL SPLICE

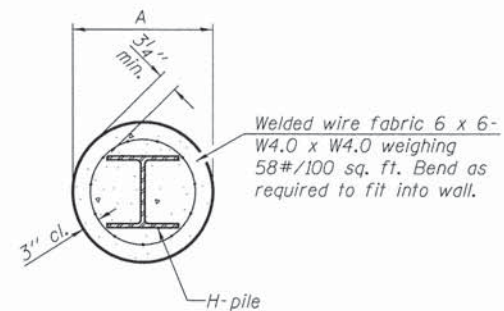


ISOMETRIC VIEW



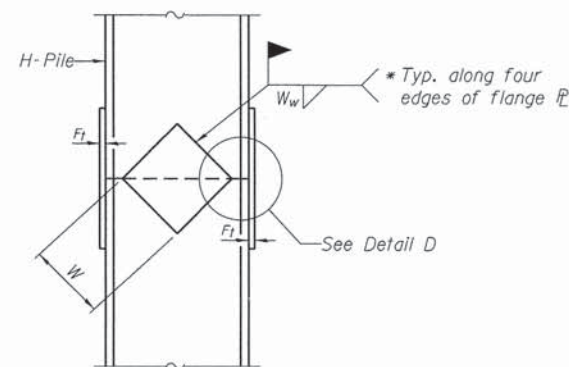
ELEVATION

PILE ENCASEMENT

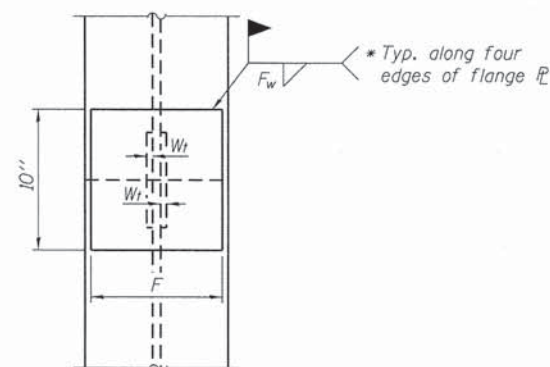


Note:
Forms for encasement may be omitted when soil conditions permit.

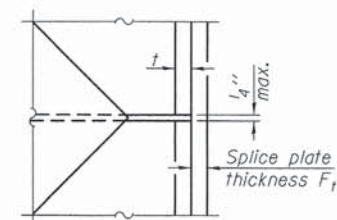
SECTION A-A



ELEVATION



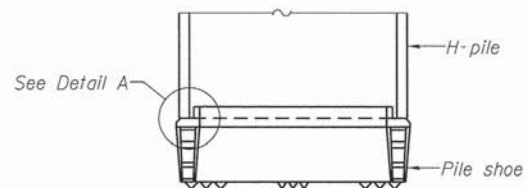
END VIEW



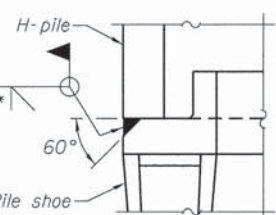
DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 8"	1/2"
x89	12 1/2"	3/4"	1/16"	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"	1/16"	6 1/2"	5 8"	1/2"
x74	10"	7/8"	1/16"	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"

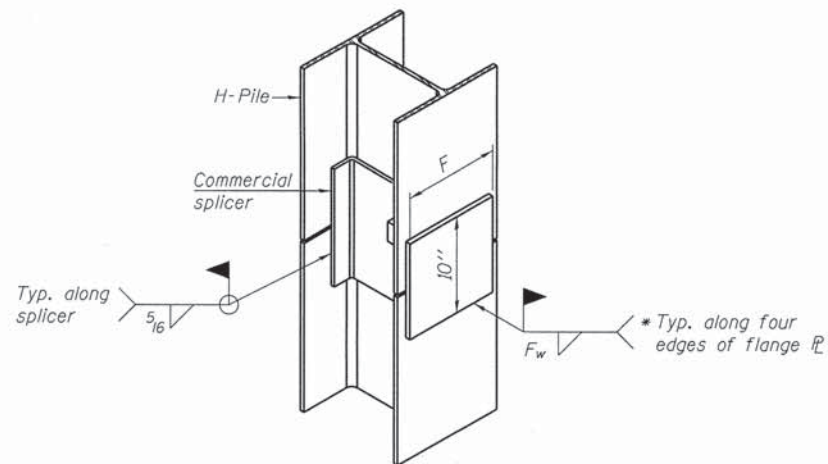


ELEVATION



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.).

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

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F-HP
LOCHNER
H. W. LOCHNER, INC.
225 WEST WASHINGTON STREET
12 TH FLOOR
CHICAGO, ILLINOIS 60606

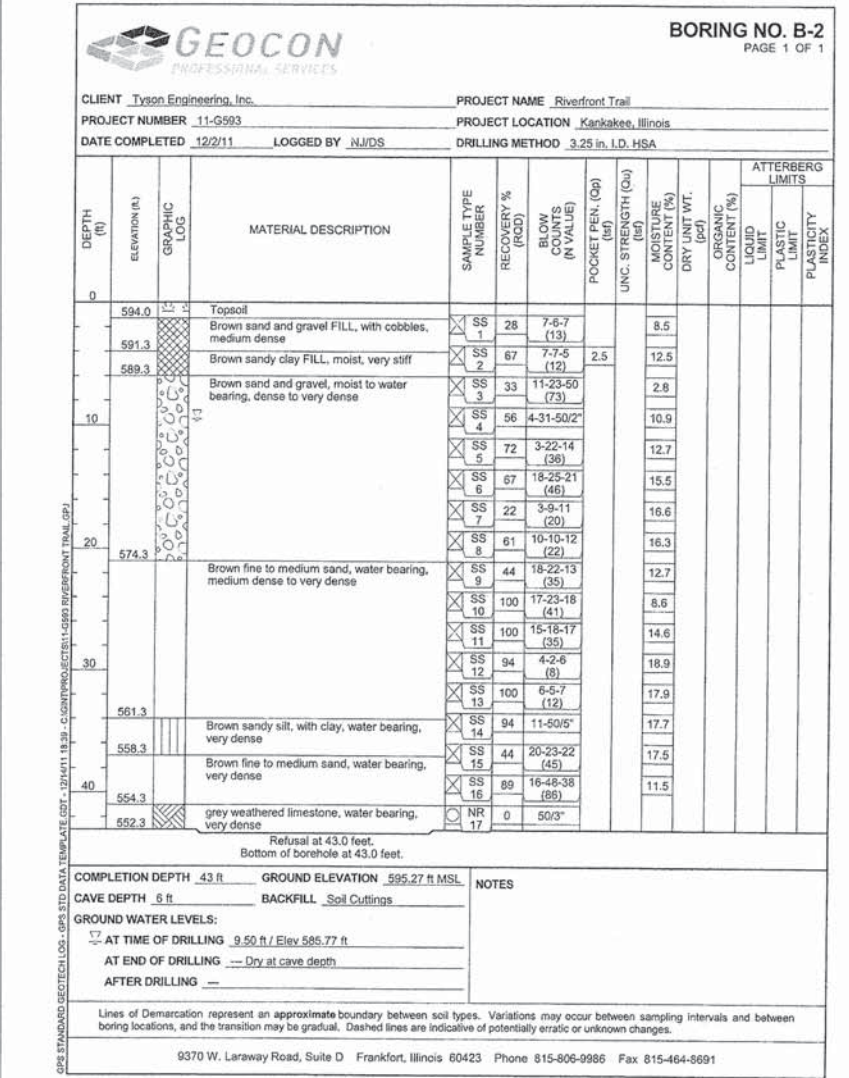
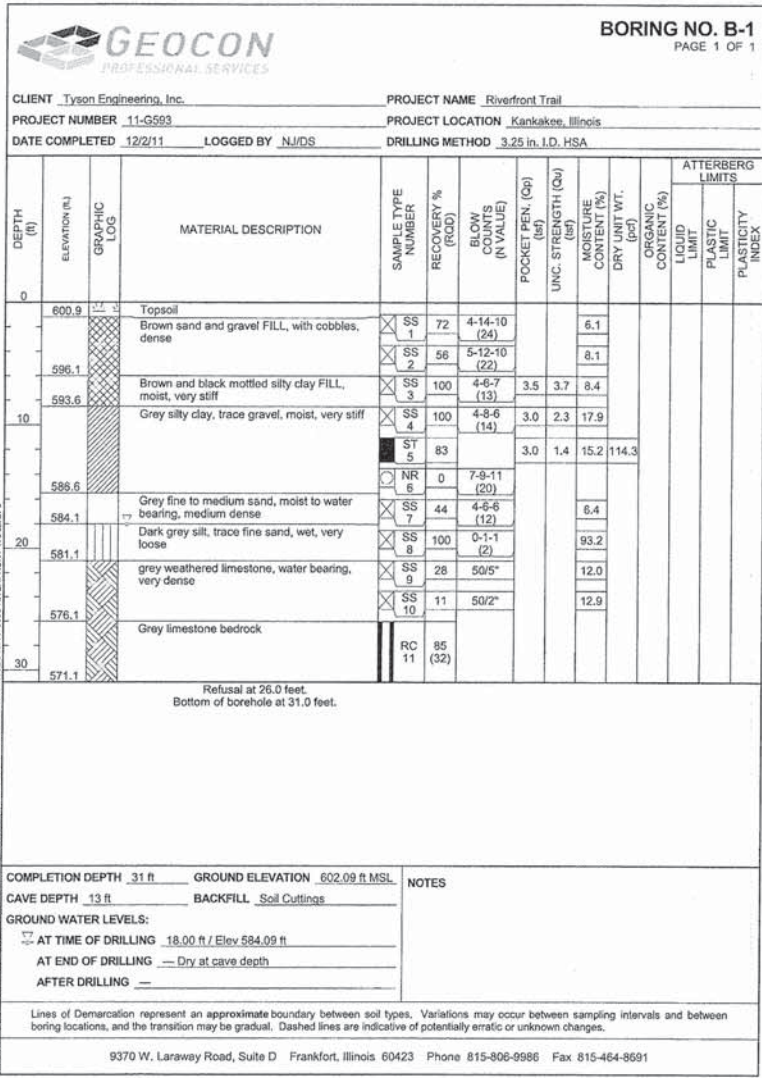
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PLOT DATE =	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PILE DETAILS

SHEET NO. 12 OF 13 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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S-12			CONTRACT NO. 87623	
ILLINOIS FED. AID PROJECT				



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