

08-02-13 LETTING ITEM 112

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAGLE TRAIL
ENHANCEMENT FUNDS
SECTION 10-00045-00-BT
PROJECT NO. TE-00D7(048)
JOB NO. C-97-040-11
ITEP NO. 729005
MULTI-USE PATH
CITY OF NEWTON
JASPER COUNTY, ILLINOIS

CONTRACT #95708	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	S.R.L.	10-00045-00-BT	JASPER	46	1
	F.A.				
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

FOR INDEX OF SHEETS
AND STANDARDS
SEE SHEET 2



SCALES

PLAN	0	20	40
PROFILE (HORIZONTAL)	0	20	40
PROFILE (VERTICAL)	0	5	10
CROSS SECTIONS (HORIZONTAL)	0	10	20
CROSS SECTIONS (VERTICAL)	0	5	10

DESIGN STAGE J.U.L.I.E. DIG NUMBER
DIG # X0520373 & X0520376

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

UTILITY NOTE

THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES, REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR MUST CONTACT J.U.L.I.E. 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.

Contract No. 95708



LOCATION MAP
CITY OF NEWTON

LENGTH OF PROJECT
EAGLE TRAIL = 5505.91 Feet (1.04 Mile)

APPROVED April 10 2013
[Signature]
MAYOR, CITY OF NEWTON

PASSED 4-18 2013
[Signature]
DISTRICT SEVEN ENGINEER OF
LOCAL ROADS & STREETS

Releasing For
Bid Based on
Limited Review 4-18 2013
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS,
REGION FOUR ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAGLE TRAIL
SECTION 10-00045-00-BT

PLANS DATED:
April 11, 2013

MILANO & GRUNLOH ENGINEERS, LLC
114 WEST WASHINGTON
P.O. BOX 897
EFFINGHAM, ILLINOIS 62401
Phone: (217) 542-7252
(800) 677-2714
Fax #: (217) 542-3433
Web Address: www.mgengineers.com
Design Firm #: 194-003108

File name: S:\DWG\1010294\dwg\Title Sheet.dwg
Plot date: 04/11/13 at 10:30

[Signature]
Lee R. Beckman
My License Expires 11-30-13
P.E. No: 52890

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.L. F.A.	10-00045-00-BT	JASPER	46	2
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		

CONTRACT #95708

INDEX OF SHEETS

1	TITLE SHEET
2	INDEX OF SHEETS AND STANDARDS
3	SUMMARY OF QUANTITIES SHEET
4-5	TYPICAL SECTIONS
6	SCHEDULE OF QUANTITIES AND GENERAL NOTES SHEET
7-12	MULTI-USE PATH PLAN AND PROFILE SHEETS
13	BOX CULVERT EXTENSION PLAN AND DETAIL SHEET
14	MISCELLANEOUS DETAILS SHEET
15	PARKING AREA PLAN SHEET
16-31	BRIDGE PLAN AND DETAIL SHEETS
32-34	RIGHT-OF-WAY AND REFERENCE TIES PLAN SHEETS
35-46	CROSS-SECTION SHEETS

STANDARDS

000001-06	Standard Symbols, Abbreviations, and Patterns
280001-07	Temporary Erosion Control Systems
424001-07	Perpendicular Curb Ramps for Sidewalks
515001-03	Name Plate for Bridges
630001-10	Steel Plate Beam Guardrail
664001-02	Chain Link Fence
701001-02	Off-Road Operations, 2L, 2W, More Than 15' Away
701006-04	Off-Road Operations, 2L, 2W, 15' (4.5 m) to 24" (600 mm) from Pavement Edge
701011-03	Off-Road Moving Operations, 2L, 2W, Day Only
701901-02	Traffic Control Devices
720001-01	Sign Panel Mounting Details
720006-03	Sign Panel Erection Details
720011-01	Metal Posts For Signs, Markers & Delineators
780001-03	Typical Pavement Markings

MILANO & GRUNLOH ENGINEERS, LLC
 114 WEST WASHINGTON
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 (800) 677-2714
 FAX#: (217) 342-3433

INDEX OF SHEETS
 EAGLE TRAIL
 CITY OF NEWTON
 SECTION 10-00045-00-BT
 JASPER COUNTY, ILLINOIS

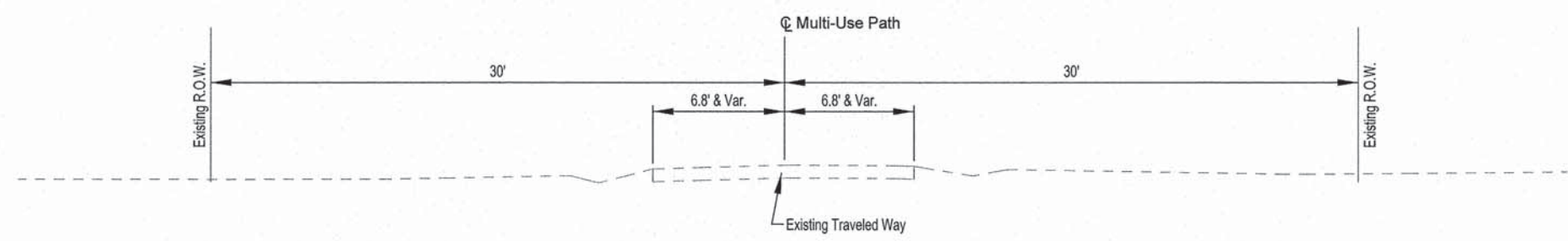
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SUMMARY OF QUANTITIES			
ITEM #	DESCRIPTION	QUANTITY	UNIT
20200100	EARTH EXCAVATION	855	CU YD
20400800	FURNISHED EXCAVATION	100	CU YD
35101400	AGGREGATE BASE COURSE, TYPE B	437	TON
42001200	PAVEMENT FABRIC	243	SQ YD
42001300	PROTECTIVE COAT	6220	SQ YD
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	53236	SQ FT
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	2190	SQ FT
42400800	DETECTABLE WARNINGS	40	SQ FT
* 50102700	MASONRY REMOVAL	46.0	CU YD
* 50200100	STRUCTURE EXCAVATION	284.0	CU YD
* 50300225	CONCRETE STRUCTURES	45.5	CU YD
* 50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	37450	POUND
50700105	TREATED TIMBER	14570	F.B.M.
50700305	HARDWARE	2780	POUND
50800205	REINFORCEMENT BARS, EPOXY COATED	3160	POUND
Δ* 50900805	PEDESTRIAN RAILING	80	FOOT
Δ* 50901760	PIPE HANDRAIL	380	FOOT
51500100	NAME PLATES	1	EACH
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	2	EACH
52100530	ANCHOR BOLTS, 1 1/4"	12	EACH
54010302	PRECAST CONCRETE BOX CULVERTS 3' X 2'	43	FOOT
542D0217	PIPE CULVERTS, CLASS D, TYPE 1 12"	12	FOOT
Δ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	44	FOOT
Δ 66400305	CHAIN LINK FENCE, 6'	164	FOOT

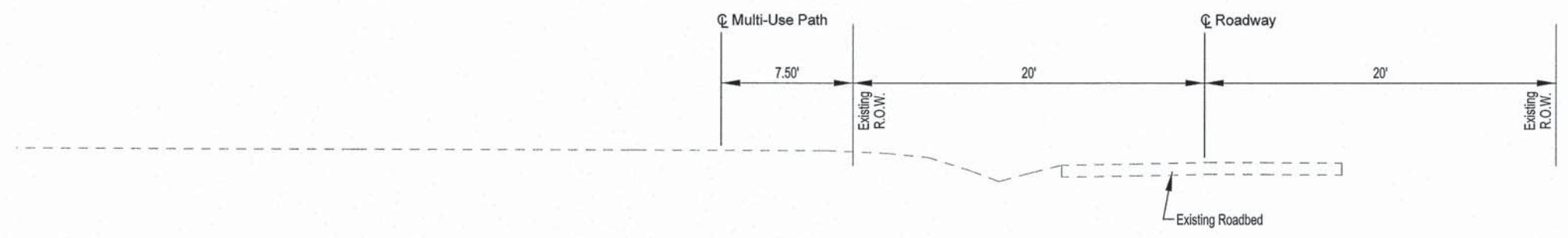
Δ SPECIALTY ITEMS

SUMMARY OF QUANTITIES			
ITEM #	DESCRIPTION	QUANTITY	UNIT
67100100	MOBILIZATION	1	L SUM
72000100	SIGN PANEL - TYPE 1	10.8	SQ FT
72900100	METAL POST - TYPE A	26.5	FOOT
Δ 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	5	SQ FT
Δ 78001110	PAINT PAVEMENT MARKING - LINE 4"	580	FOOT
* X0696100	PARKING BLOCKS	7	EACH
* X0325153	MASONRY CLEANING AND TUCKPOINTING	44.5	SQ YD
* X2501000	SEEDING, CLASS 2 (SPECIAL)	0.9	ACRE
* X2810214	STONE RIPRAP, CLASS A7 (SPECIAL)	82	TON
* X6640300	CHAIN LINK FENCE REMOVAL	141	FOOT
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	1	L SUM
* Z0001903	STRUCTURAL STEEL REMOVAL	21980	POUND
* Z0001905	STRUCTURAL STEEL REPAIR	100	POUND
* Z0003618	REMOVAL OF EXISTING TIMBER FLOOR	1	EACH
* Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	10	SQ FT
* Z0031300	JACKING AND CRIBBING	1	L SUM
* Z0004002	BOLLARDS	10	EACH
* Z0053800	RIVET REMOVAL AND REPLACEMENT	220	EACH
* Z0073410	TEMPORARY SUPPORT SYSTEM, LOCATION 1	1	EACH
* Z0073420	TEMPORARY SUPPORT SYSTEM, LOCATION 2	1	EACH
* LR420021	PORTLAND CEMENT CONCRETE PAVEMENT 6" (SPECIAL)	558	SQ YD
* X0007309	BOLLARDS, QUICK RELEASE	5	EACH
* X2020205	ROCK EXCAVATION (SPECIAL)	266	CU YD

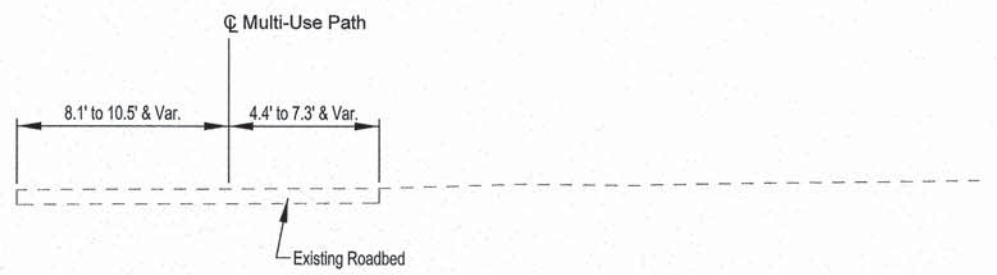
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00045-00-BT	JASPER	46	4
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		
CONTRACT #95708				



EXISTING SECTION
STATION 0+00.0 TO STATION 21+46.5



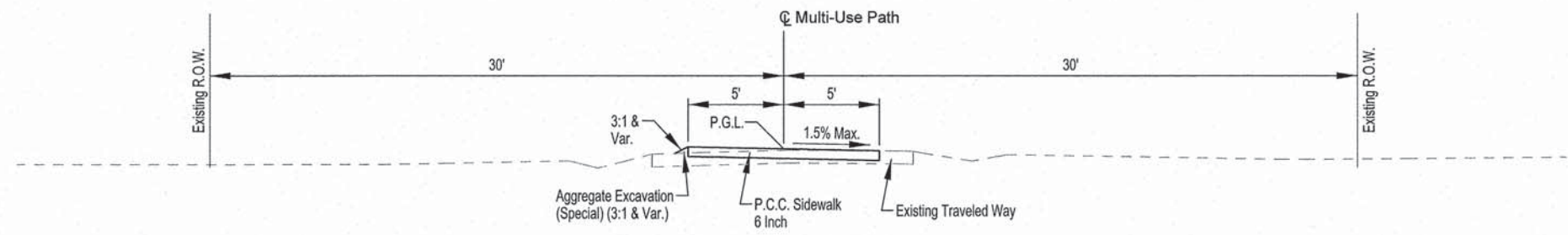
EXISTING SECTION
STATION 21+46.5 TO STATION 53+55.0



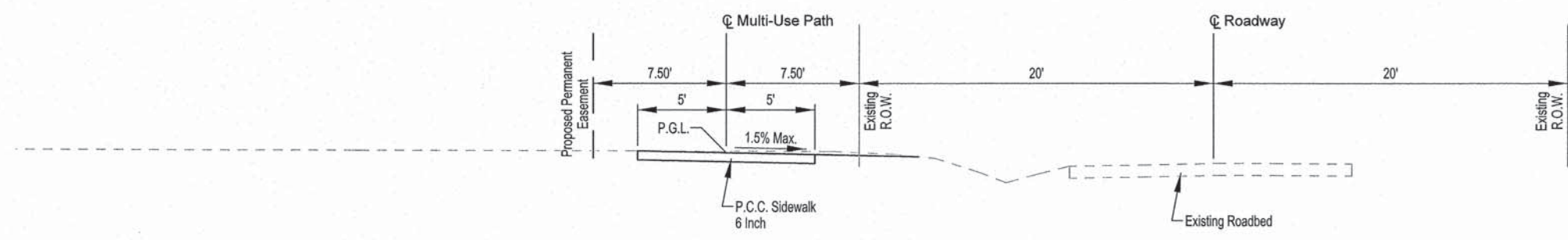
EXISTING SECTION
STATION 150+30.1 TO STATION 151+81.0

	MILANO & GRUNLOH ENGINEERS, LLC 114 WEST WASHINGTON P.O. BOX 897 EFFINGHAM, ILLINOIS 62401	TYPICAL SECTION EAGLE TRAIL CITY OF NEWTON SECTION 10-00045-00-BT JASPER COUNTY, ILLINOIS
	Phone: (217) 347-7282 Fax #: (800) 677-2714 Web Address: www.mgengineers.com	
	Design Firm #: 184-002108	
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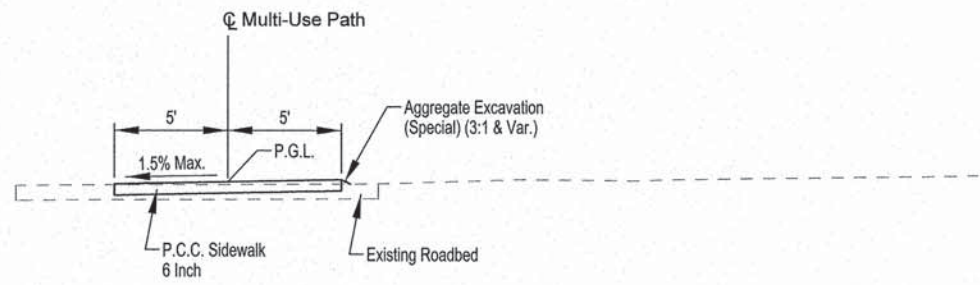
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00045-00-BT	JASPER	46	5
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	CONTRACT #95708	



PROPOSED SECTION
STATION 0+00.0 TO STATION 21+46.5



PROPOSED SECTION
STATION 21+46.5 TO STATION 53+55.0



PROPOSED SECTION
STATION 150+30.1 TO STATION 151+81.0

	MILANO & GRUNLOH ENGINEERS, LLC 114 WEST WASHINGTON P.O. BOX 897 EFFINGHAM, ILLINOIS 62401	TYPICAL SECTION EAGLE TRAIL CITY OF NEWTON SECTION 10-00045-00-BT JASPER COUNTY, ILLINOIS
	Phone: (217) 347-7282	
	Fax #: (800) 677-2714 (217) 340-3433	
	Web Address: www.mgengr.com Design Firm #: 184-003108	
File name: S:\DWG\1010294\dwg\Typical.dwg		
Plot date: 04/10/13 at 15:40		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00045-00-BT	JASPER	46	6
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT:	
CONTRACT #95708				

ROCK EXCAVATION (SPECIAL) SCHEDULE			
LOCATION	(1) * ROCK EXCAVATION (SPECIAL)	(2) EMBANKMENT	(3) EARTHWORK BALANCE WASTE + OR SHORTAGE (-)
Sta to Sta	CU YD	CU YD	CU YD
0+00 TO 21+65	266	76	190
TOTAL	266	76	190

LOCATION	FURNISH EXCAVATION
	FOOT
Sta. 21+90.89	60
Sta. 22+98.92	40
TOTAL	100

LOCATION	PIPE CULVERTS, CLASS D, TYPE 1 12"
	FOOT
Sta. 37+22.27	12
TOTAL	12

* Indicates a pay item

EARTH EXCAVATION SCHEDULE				
LOCATION	(1) *EARTH EXCAVATION	(2) EXCAVATION TO BE USED IN EMBANKMENT (0.75 X Col. 1)	(3) EMBANKMENT	(4) EARTHWORK BALANCE WASTE + OR SHORTAGE (-)
Sta to Sta	CU YD	CU YD	CU YD	CU YD
21+65 TO 53+55	642	482	14	468
150+32 TO 151+81.05	13	10	8	2
PARKING AREA	200	150	0	150
TOTAL	855			620

* Indicates a pay item
Shrinkage used is 25%

LOCATION	AGGREGATE BASE COURSE, TYPE B
	FOOT
Sta. 0+00 to 53+55	200
Sta. 150+32 to 151+81.05	100
Rt. Sta. 150+20 to 151+38 (Parking Area)	137
TOTAL	437

LOCATION	PRECAST CONCRETE BOX CULVERTS, 3' X 2'
	FOOT
Lt. Sta. 21+90.89	25
Lt. Sta. 22+98.92	18
TOTAL	43

LOCATION	P.C.C. SIDEWALK 6 INCH	P.C.C. SIDEWALK 8 INCH	PAVEMENT FABRIC	DETECTABLE WARNINGS	P.C.C. PAVEMENT 6" (SPECIAL)	PROTECTIVE COAT
	SQ FT	SQ FT	SQ YD	SQ FT	SQ YD	SQ YD
Sta. 0+00.00 to 21+32.00	21677					2409
Sta. 21+32.00 to 23+20.00		1890	210			210
Sta. 23+20.00 to 36+97.00	13770					1530
Sta. 36+97.00 to 37+27.00		300	33			33
Sta. 37+27.00 to 53+55.00	16280					1809
Sta. 150+32.00 to 151+81.05	1509					167
Sta. 21+45.50				20		
Sta. 21+62.50				20		
Rt. Sta. 150+20 to 151+38 (Parking Area)					558	62
TOTAL	53236	2190	243	40	558	6220

LOCATION	SIGN PANEL-TYPE 1
	SQ FT
Sta 53+57.00	10.75
TOTAL	10.75

LOCATION	METAL POST-TYPE A
	FOOT
Sta 53+57.00	26.5
TOTAL	26.5

LOCATION	SPBG TYPE A, 6 FOOT POSTS
	FOOT
9' Rt. to 53' Rt., Sta. 151+40	44
TOTAL	44

LOCATION	CHAIN LINK FENCE	CHAIN LINK FENCE REMOVAL
	FOOT	FOOT
57'Rt. Sta. 150+25 to 9.6'Rt. 151+78	164	141
TOTAL	164	141

LOCATION	PAINT PAVEMENT MARKING - LINE 4"	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS (YELLOW)
	FOOT	SQ FT
Rt. Sta 150+20 to 151+38 (Parking Area)	580	5
TOTAL	580	5

LOCATION	PIPE HANDRAIL
	FOOT
5.5'Lt Sta. 2+17.76 to 2+67.76	50
5.5'Rt Sta. 2+17.76 to 2+67.76	50
5.5'Lt Sta. 8+22.65 to 8+52.65	30
5.5'Rt Sta. 8+22.65 to 8+52.65	30
5.5'Lt Sta. 13+56.77 to 14+01.77	45
5.5'Rt Sta. 13+56.77 to 14+01.77	45
5.5'Lt Sta. 16+42.57 to 16+87.57	45
5.5'Rt Sta. 16+42.57 to 16+87.57	45
5.5'Lt Sta. 20+55.70 to 20+75.70	20
5.5'Rt Sta. 20+55.70 to 20+75.70	20
TOTAL	380

LOCATION	BOLLARDS	BOLLARDS, QUICK RELEASE
	EACH	EACH
Sta. 0+05.00	2	1
Sta. 21+32.00	2	1
Sta. 21+78.00	2	1
Sta. 150+33.00	2	1
Sta. 151+75.05	2	1
TOTAL	10	5

LOCATION	PARKING BLOCKS
	FOOT
Rt. Sta. 150+20 to 151+38 (Parking Lot)	7
TOTAL	7

LEGEND	
○	IRON PIN FOUND
○ 1/4	1/4" IRON PIN FOUND
○ IP	IRON PIPE FOUND
ON&W	NAIL & WASHER FOUND
ON	NAIL FOUND
OPK	PK NAIL FOUND
ORR	RAILROAD SPIKE FOUND
OT	"T" FENCE POST FOUND
○ X	CHISELED "X" IN CONCRETE FOUND
ODH	DRILLED HOLE IN CONCRETE FOUND
⊗	SURVEY DISC FOUND
⊙	STONE FOUND
⊗	TREE (DECIDUOUS)
⊗	TREE (EVERGREEN)
⊗	FIRE HYDRANT (EXISTING)
⊗	WATER METER (EXISTING)
— v —	WATER MAIN (EXISTING)
— w —	WATER SERVICE LINE (EXISTING)
⊗	VALVE (GAS OR WATER) (EXISTING)
⊗	GAS METER (EXISTING)
— g —	GAS MAIN (EXISTING)
— g —	GAS SERVICE LINE (EXISTING)
□ C	CABLE TV PEDESTAL (EXISTING)
— CT —	UNDERGROUND CABLE TV (EXISTING)
□ T	TELEPHONE PEDESTAL (EXISTING)
⊗	TELEPHONE MANHOLE (EXISTING)
— T —	TELEPHONE CABLE (EXISTING)
— t —	TELEPHONE SERVICE WIRE (EXISTING)
⊗	STORM MANHOLE (EXISTING)
□	STORM INLET (EXISTING)
—	STORM SEWER (EXISTING)
⊗	SANITARY MANHOLE (EXISTING)
—	SANITARY SEWER (EXISTING)
⊗	POWER POLE (EXISTING)
⊗	POWER POLE w/LIGHT (EXISTING)
—	GUY ANCHOR (EXISTING)
⊗	LIGHTPOLE (EXISTING)
□ E	ELECTRIC PEDESTAL (EXISTING)
— DHE —	OVERHEAD ELECTRIC (EXISTING)
— E —	UNDERGROUND ELECTRIC (EXISTING)
LS	LANDSCAPING
○	FENCE POST
—	FENCE

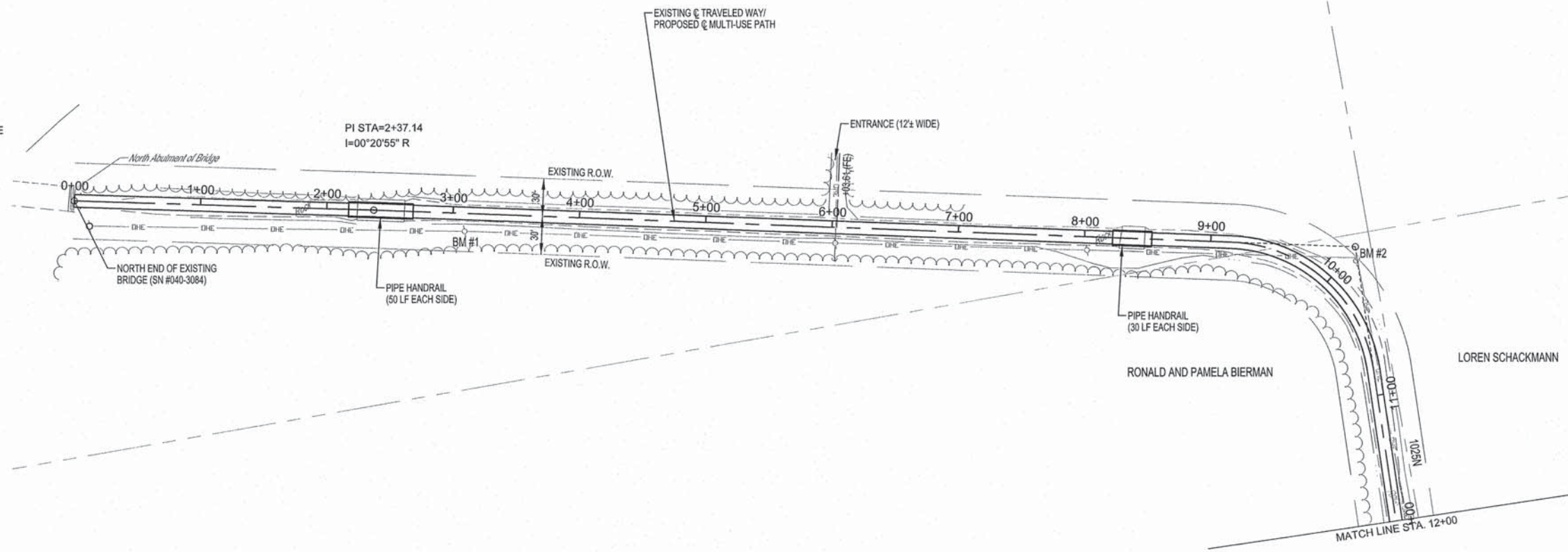
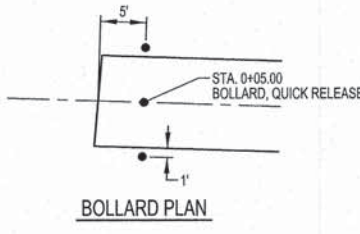
- Pavement grades shown are at the top of pavement surfaces, unless otherwise noted in the plans.
- All elevations refer to U.S.G.S. mean sea level datum.
- Any reference to a standard in the plans shall be interpreted to mean the edition as indicated by the sub-number listed on Sheet 2.
- Before ordering pipe culverts the Contractor shall consult the Engineer for exact lengths.
- CURB AND GUTTER, WALKS, SLABS, AND PCC DRIVEWAY PAVEMENT 8"

A. Concrete walks shall be in accordance with IDOT Std. Spec. Unless otherwise shown, locate sidewalk contraction joints at 5 ft on center and expansions joints at 50 ft on center.

SEE SHEETS 16 TO 31 FOR BRIDGE QUANTITIES

	MILANO & GRUNLOH ENGINEERS, LLC 114 WEST WASHINGTON P.O. BOX 697 EFFINGHAM, ILLINOIS 62401 Phone: (217) 347-7282 (800) 877-2714 (217) 342-3433 Fax #: _____ Web Address: www.mgengr.com Design Firm #: 184-003108	SCHEDULE OF QUANTITIES AND GENERAL NOTES EAGLE TRAIL CITY OF NEWTON SECTION 10-00045-00-BT JASPER COUNTY, ILLINOIS
	File name: S:\DWG\10\10294\dwg\Quantities.dwg Plot date: 04/10/13 at 16:10	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-0045-00-BT		JASPER	46	7
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT:	
CONTRACT #95708				



CURVE #1
 PI STA=10+14.50
 I=79°22'02" R
 Da=49°33'27"
 T=97.91'
 R=118.00'
 L=163.46'
 C=150.70'
 E=35.33'
 M=27.19'
 PC STA=9+16.59
 PT STA=10+80.05

NOTE: CONTRACTOR TO FIELD VERIFY BETWEEN BENCHMARK ELEVATIONS

BM #1
 RAILROAD SPIKE IN POWER POLE
 AT 14.1 RT, STA. 3+09.6
 ELEV.=486.75

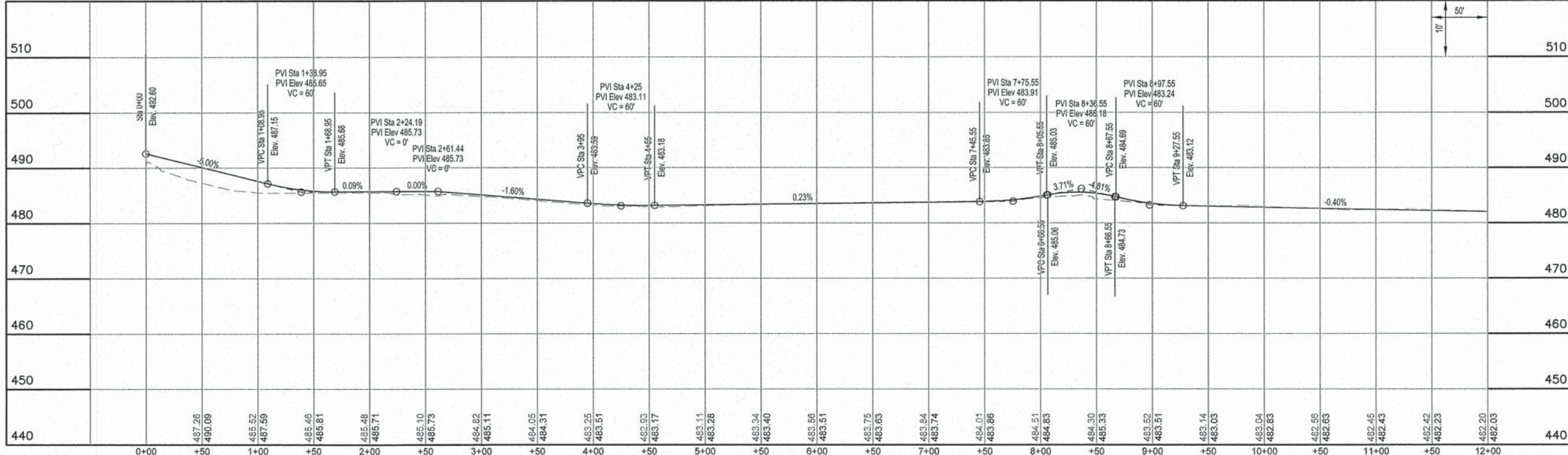
BM #2
 RAILROAD SPIKE IN POWER POLE
 AT 30.0 LT, STA. 10+03.7
 ELEV.=486.49

MILANO & GRUNLOH ENGINEERS, LLC
 114 WEST WASHINGTON
 P.O. BOX 897
 EFFINGHAM, ILLINOIS 62401
 Phone: (217) 347-7282
 (800) 577-3714
 Fax #: (217) 342-3433
 Web Address: www.mgeengineers.com
 Design Firm #: 184-003100

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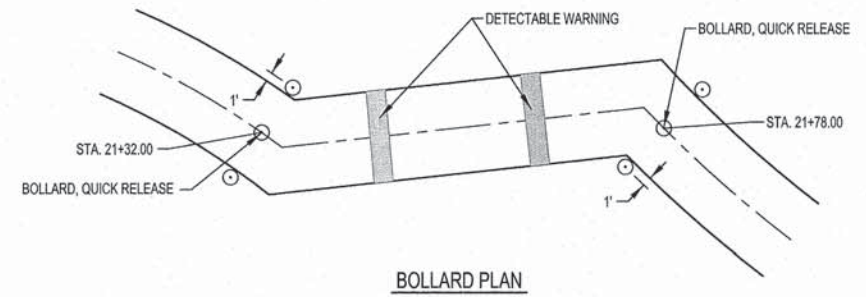
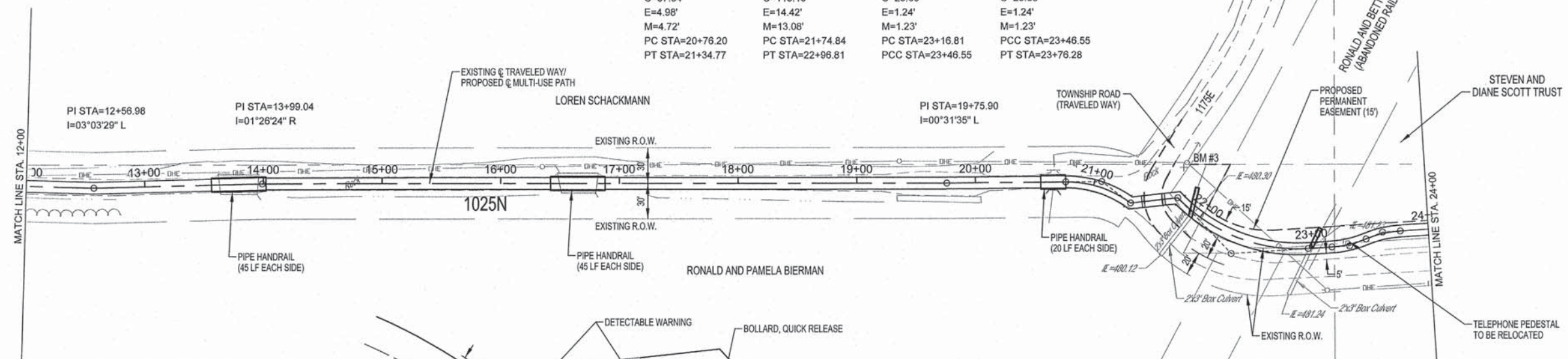
SCALES:
 1" = 50' HOR
 1" = 10' VER



MULTI-USE PATH

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-00045-00-BT		JASPER	46	8
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT:	
CONTRACT #95708				

CURVE #	CURVE #	CURVE #	CURVE #
PI STA=21+06.56 I=37°17'04" R Da=63°39'43" T=30.36' R=90.00' L=58.57' C=57.54' E=4.98' M=4.72' PC STA=20+76.20 PT STA=21+34.77	PI STA=22+40.00 I=49°55'07" L Da=40°55'32" T=65.16' R=140.00' L=121.97' C=118.15' E=14.42' M=13.08' PC STA=21+74.84 PT STA=22+96.81	PI STA=23+31.82 I=18°55'48" L Da=63°39'43" T=15.00' R=90.00' L=29.74' C=29.60' E=1.24' M=1.23' PC STA=23+16.81 PCC STA=23+46.55	PI STA=23+61.55 I=18°55'48" R Da=63°39'43" T=15.00' R=90.00' L=29.74' C=29.60' E=1.24' M=1.23' PCC STA=23+46.55 PT STA=23+76.28



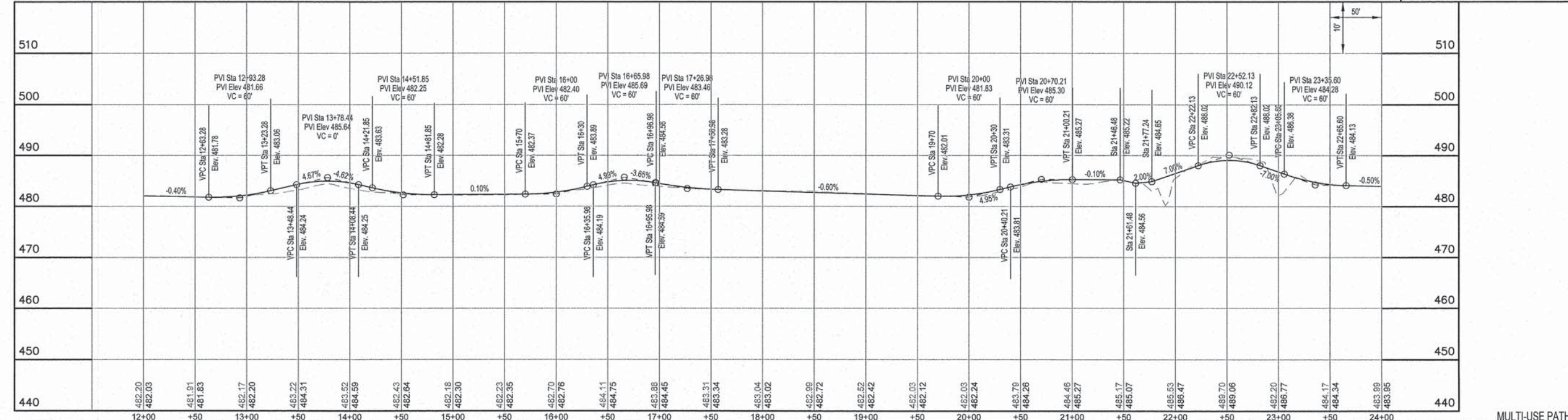
NOTE: CONTRACTOR TO FIELD VERIFY BETWEEN BENCHMARK ELEVATIONS

BM #2
RAILROAD SPIKE IN POWER POLE
AT 30.0'L, STA. 10+03.7
ELEV.=486.49

BM #3
RAILROAD SPIKE IN POWER POLE
AT 28.8'L, STA. 21+85.7 (FWD)
ELEV.=485.94

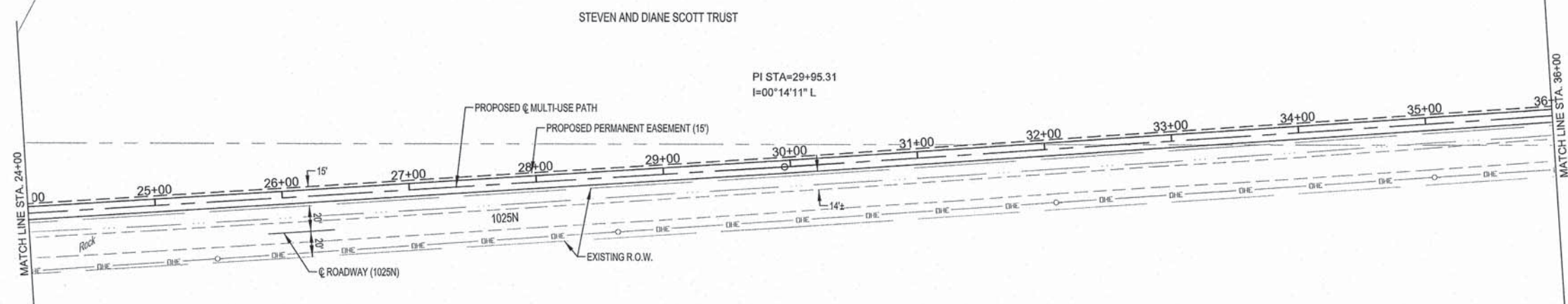
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Web Address: www.mgeengineers.com
Design Firm #: 184-023108
File name: S:\DWG\1010294\dwg\Trail.dwg
Plot date: 04/10/13 at 16:15 F.B. 895,688,687,689,690

SCALES:
1" = 50' HOR
1" = 10' VER



MULTI-USE PATH

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00045-00-BT	JASPER	46	9
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT #95708				



SCALES:
1" = 50' HOR
1" = 10' VER

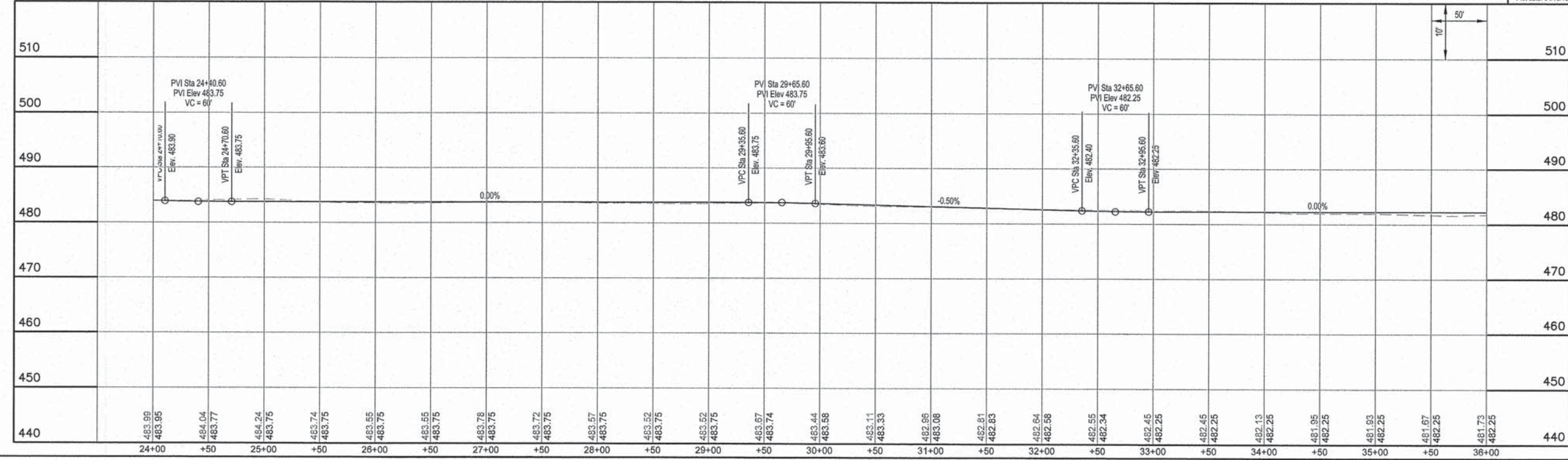
NOTE: CONTRACTOR TO FIELD VERIFY BETWEEN BENCHMARK ELEVATIONS

BM #3
RAILROAD SPIKE IN POWER POLE
AT 28.8' LT. STA. 21+85.7 (FWD)
ELEV.=485.94

BM #4
RAILROAD SPIKE IN POWER POLE
AT 49.7' RT. STA. 48+32.5
ELEV.=483.15

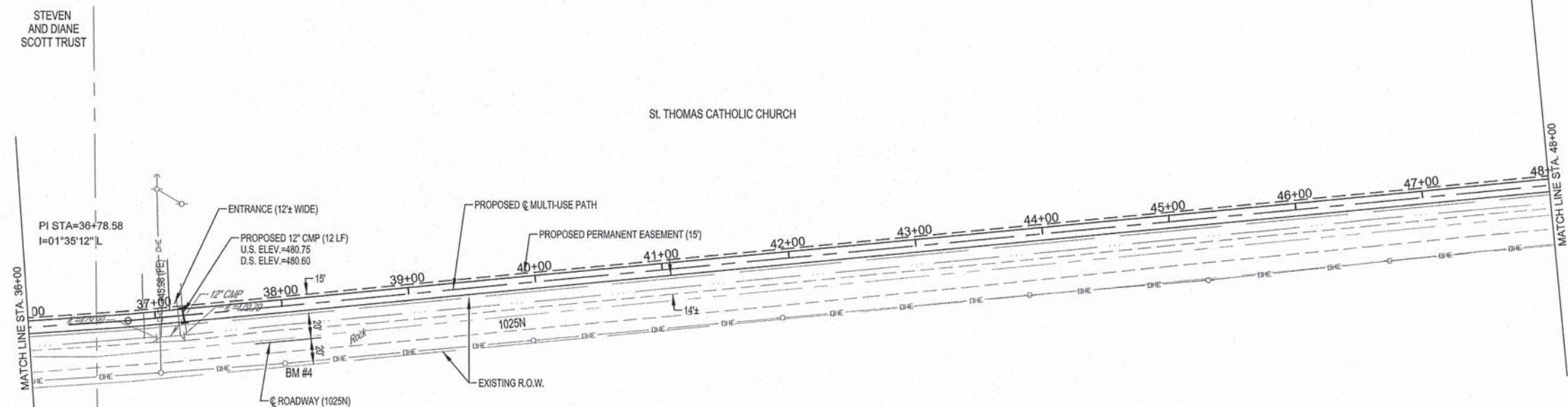
MILANO & GRUNLOCH ENGINEERS, LLC
114 WEST WASHINGTON
P.O. BOX 897
EFFINGHAM, ILLINOIS 62401
Phone: (217) 347-7392
(800) 477-2714
Fax #: (217) 342-3433
Web Address: www.mgeengineers.com
Design Firm #: 184-033108

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Plot date: 04/10/13 at 16:20 F.B. 685,686,687,689,690



MULTI-USE PATH

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00045-00-BT	JASPER	46	10
FED. ROAD DIST. NO. 7	KLINOB	FED. AID PROJECT		
CONTRACT #95708				



SCALES:
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 1" = 10' VER

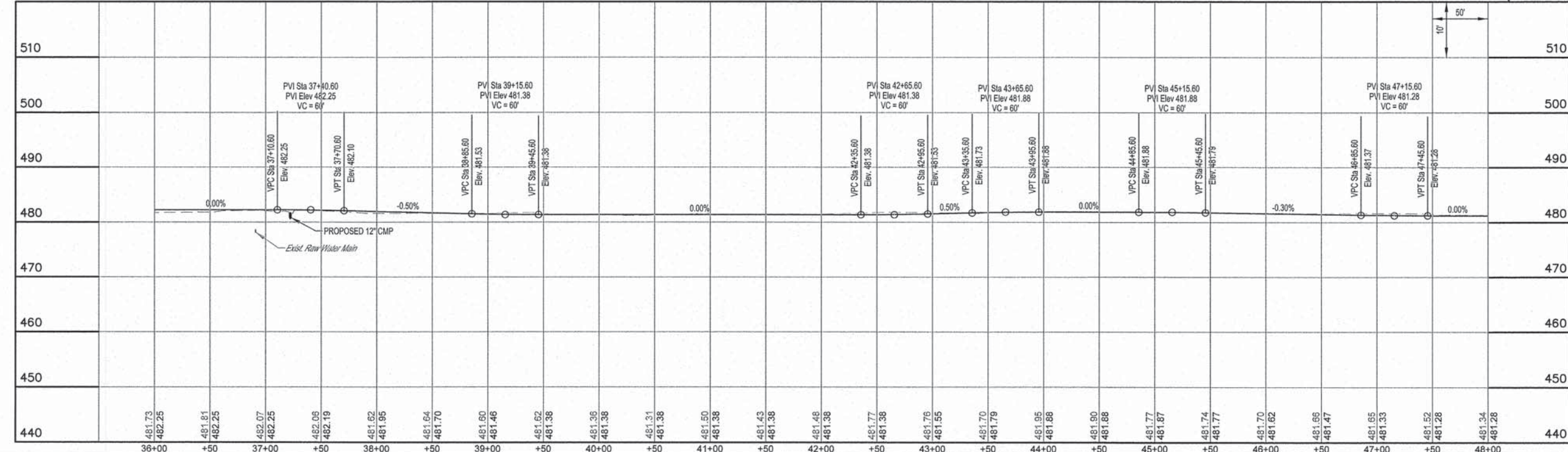
NOTE: CONTRACTOR TO FIELD VERIFY BETWEEN BENCHMARK ELEVATIONS

BM #3
 RAILROAD SPIKE IN POWER POLE
 AT 28.8' LT, STA. 21+85.7 (FWD)
 ELEV.=485.94

BM #4
 RAILROAD SPIKE IN POWER POLE
 AT 49.7' RT, STA. 46+32.5
 ELEV.=483.15

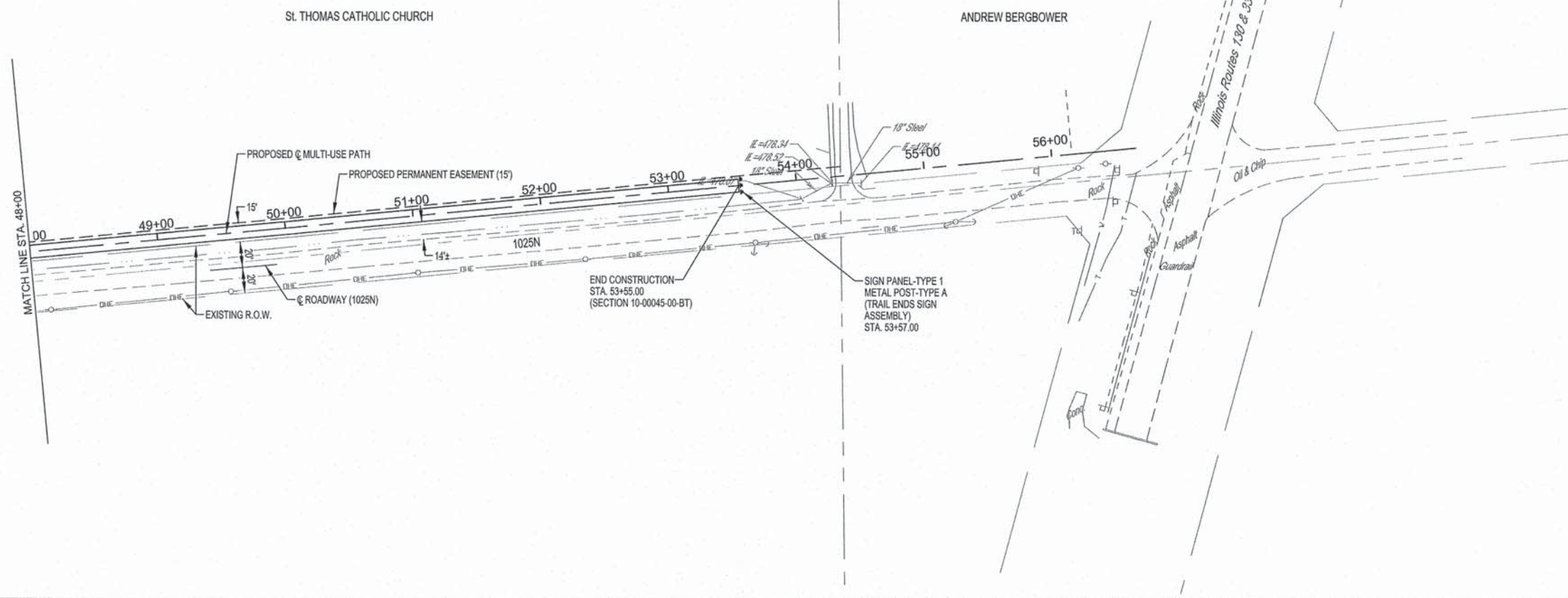
MILANO & GRUNLOH ENGINEERS, LLC
 114 WEST WASHINGTON
 P.O. BOX 887
 EFFINGHAM, ILLINOIS 62401
 Phone: (217) 347-7282
 Fax #: (217) 342-3433
 Web Address: www.mgengineers.com
 Design Firm #: 194-03108

File name: S:\DWG\1010294\dwg\Trail.dwg
 Plot date: 04/10/13 at 16:30
 P.L. 695,698,697,699,690



MULTI-USE PATH

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-00045-00-BT		JASPER	46	11
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	CONTRACT #95708	



SCALES:
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1" = 10' VER

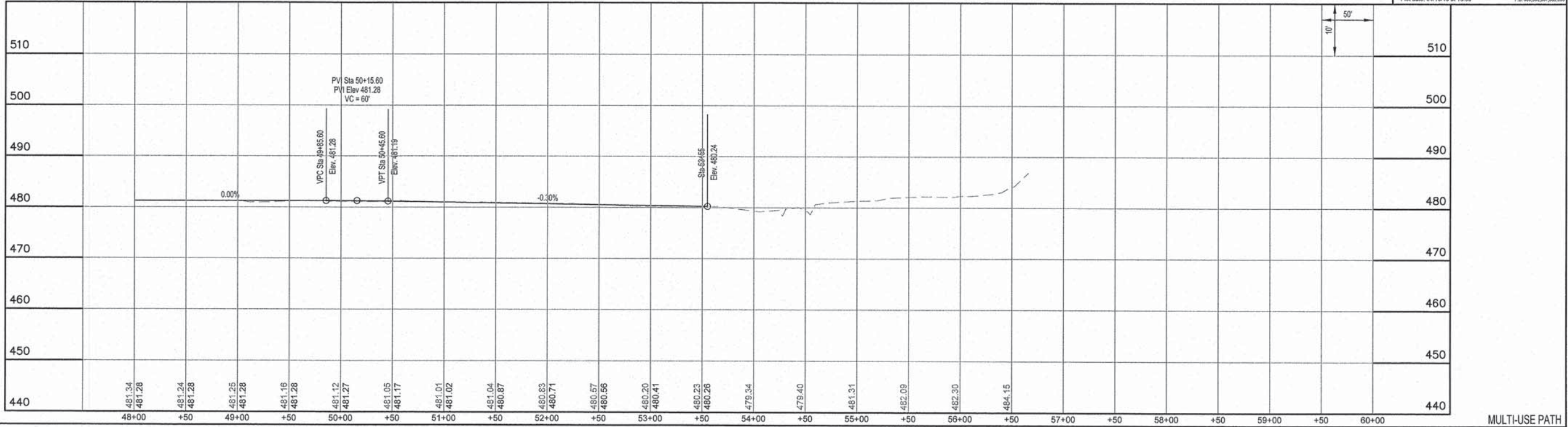
NOTE: CONTRACTOR TO FIELD VERIFY BETWEEN BENCHMARK ELEVATIONS

BM #3
RAILROAD SPIKE IN POWER POLE
AT 28.81T, STA. 21+85.7 (FWD)
ELEV.=485.94

BM #4
RAILROAD SPIKE IN POWER POLE
AT 49.7RT, STA. 46+32.5
ELEV.=483.15

MILANO & GRUNLOH ENGINEERS, LLC
114 WEST WASHINGTON
P.O. BOX 897
EFFINGHAM, ILLINOIS 62401
Phone: (217) 341-7282
(800) 677-2714
Fax #: (217) 342-3433
Web Address: www.mgeengineers.com
Design Firm #: 184-03198

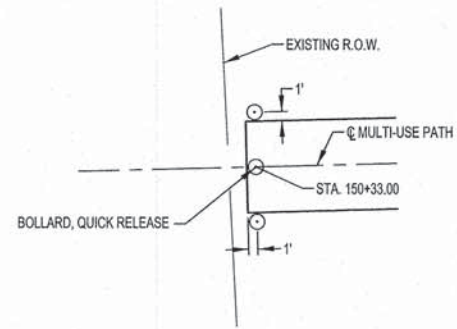
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Plot date: 04/10/13 at 16:30 F.B. 885,686,687,689,690



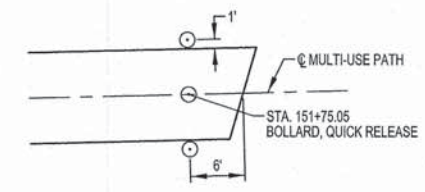
MULTI-USE PATH

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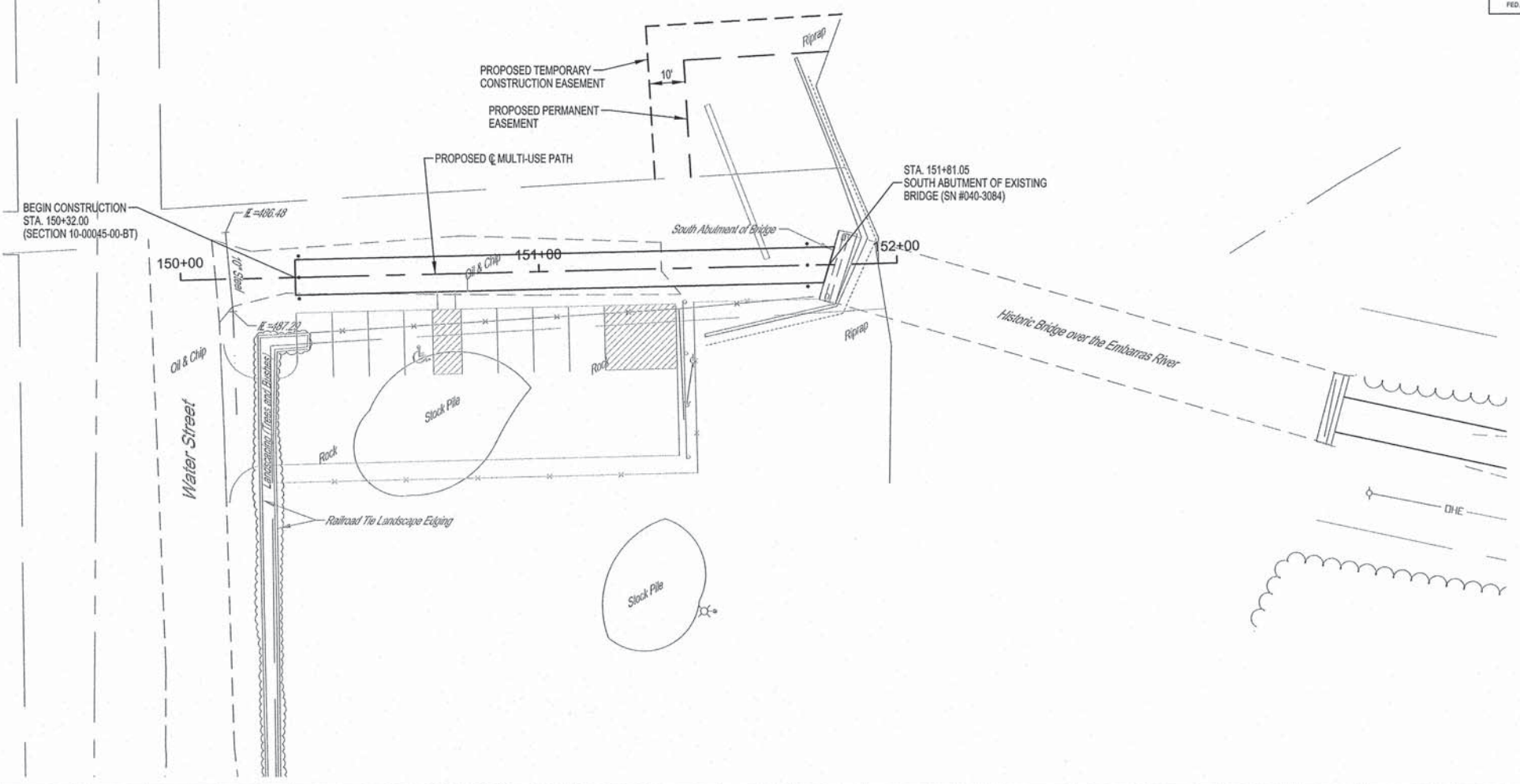
CONTRACT #95708



BOLLARD PLAN "A"



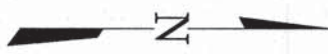
BOLLARD PLAN "B"



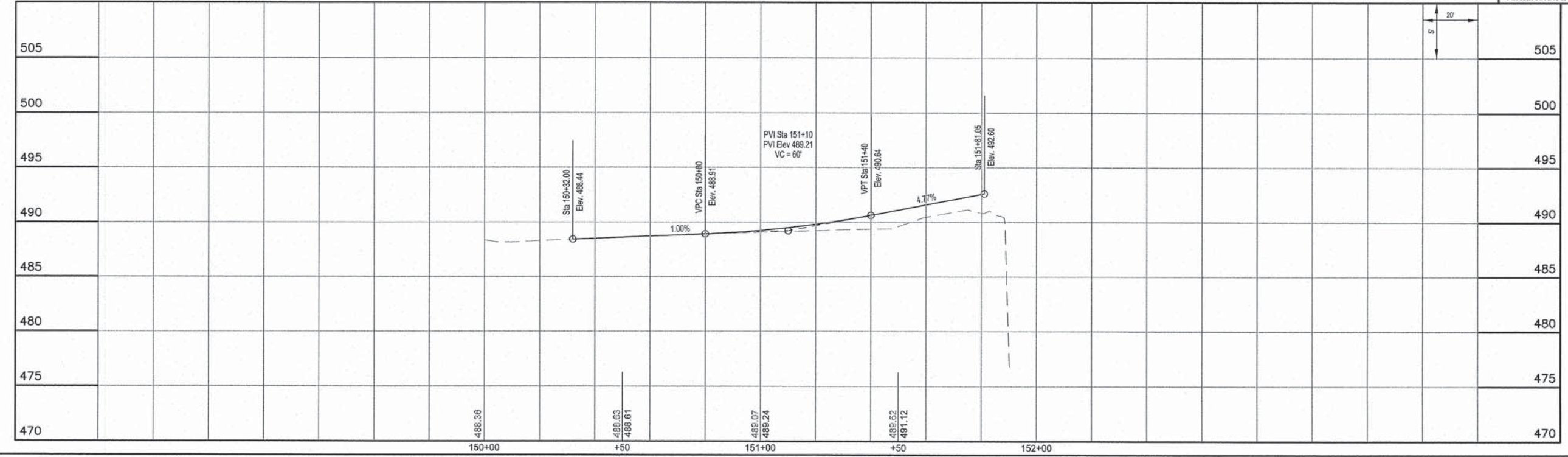
BM #5
NORTH RIM OF MANHOLE
175.3 FT. STA. 150+72.7
ELEV. 483.13

MILANO & GRUNLOH ENGINEERS, LLC
114 WEST WASHINGTON
P.O. BOX 887
EFFINGHAM, ILLINOIS 62401
Phone: (217) 347-7525
(800) 677-2714
Fax #: (217) 342-3433
Web Address: www.mgengineers.com
Design Firm #: 184-03158

File name: S:\DWG\1010294\dwg\Trail 20.dwg
Plot date: 04/10/13 at 16:30
P.S. 685,686,687,689,690



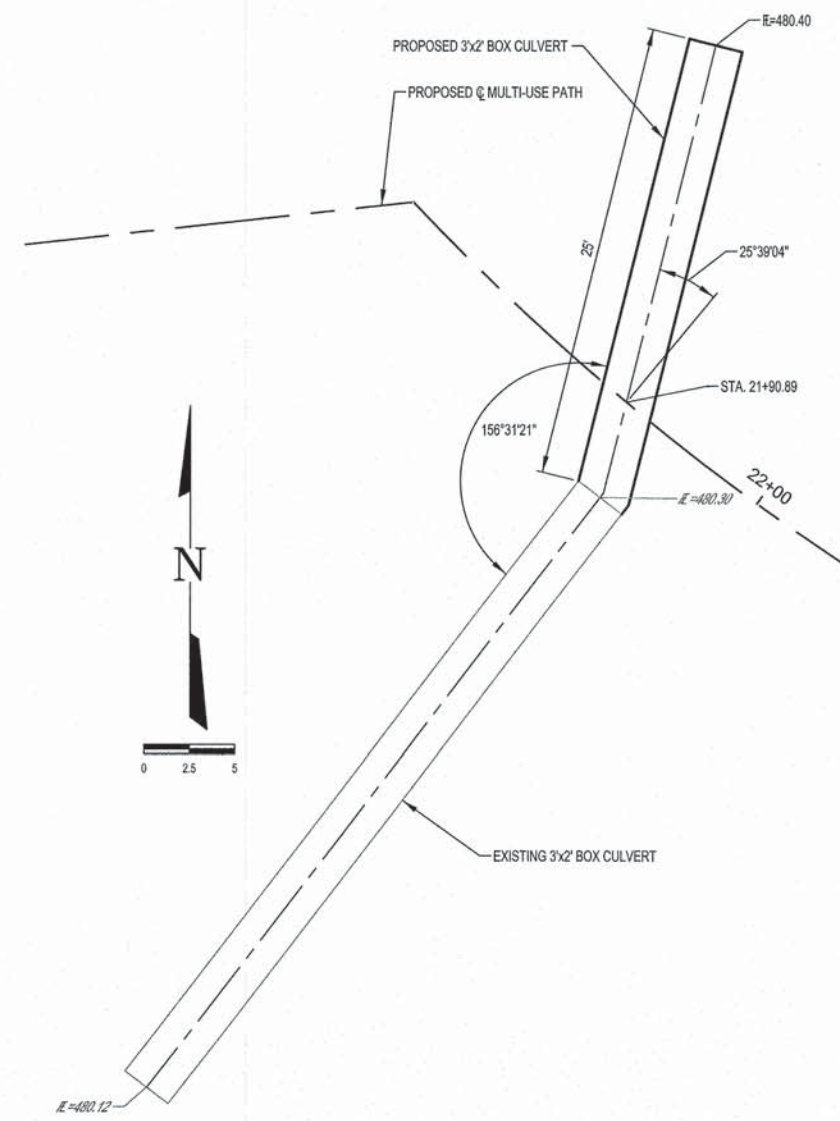
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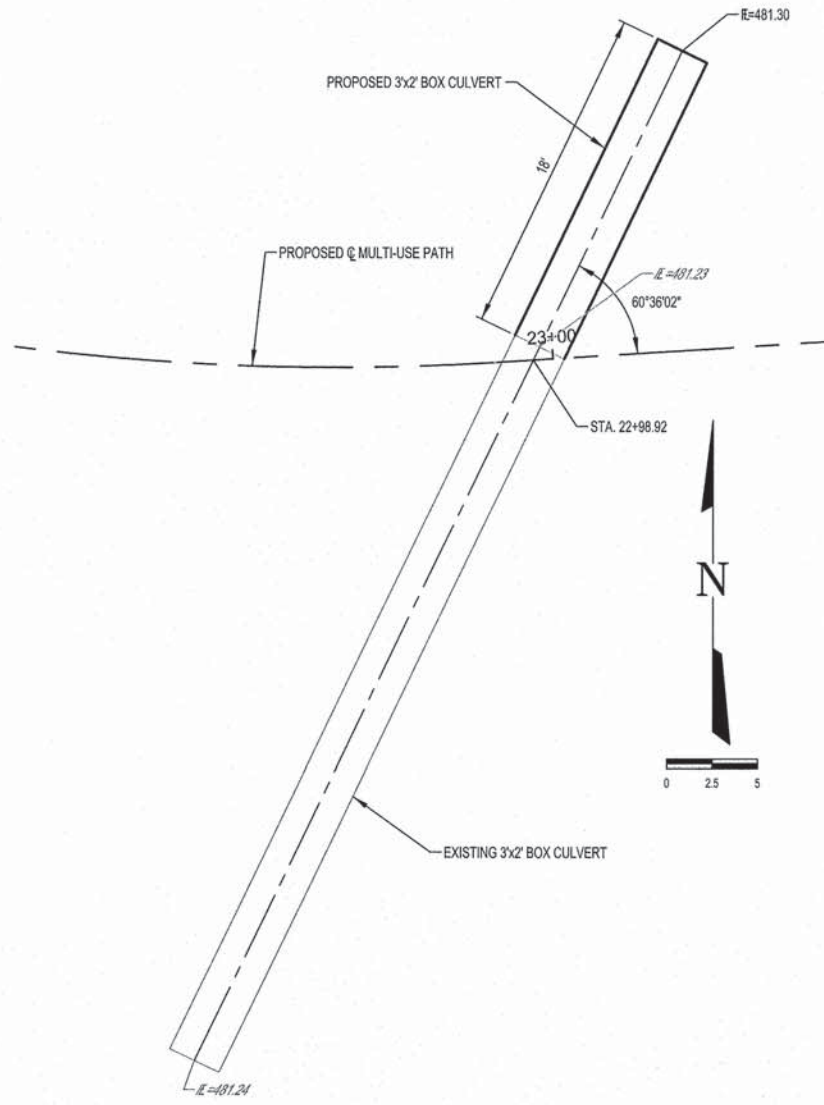
MULTI-USE PATH

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-00045-00-BT		JASPER	46	13
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		

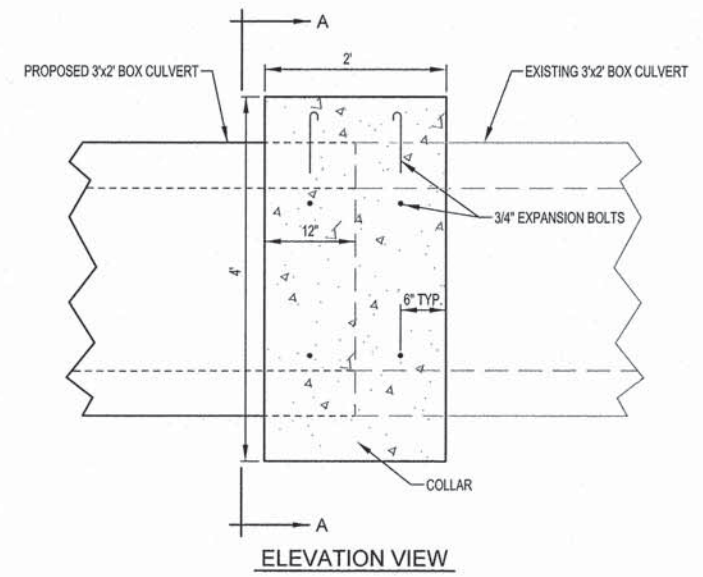
CONTRACT #95708



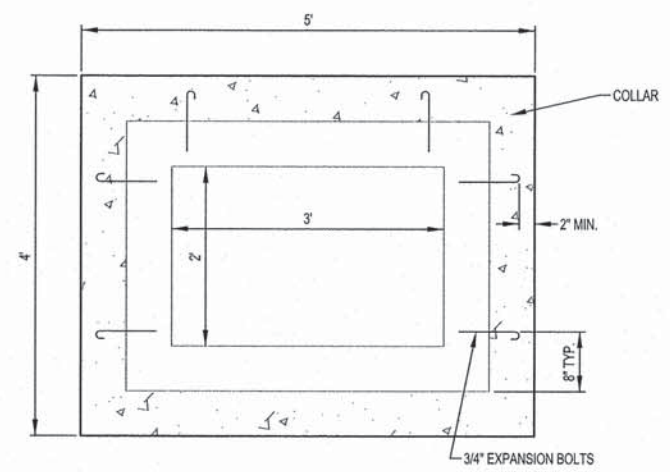
BOX CULVERT EXTENSION



BOX CULVERT EXTENSION



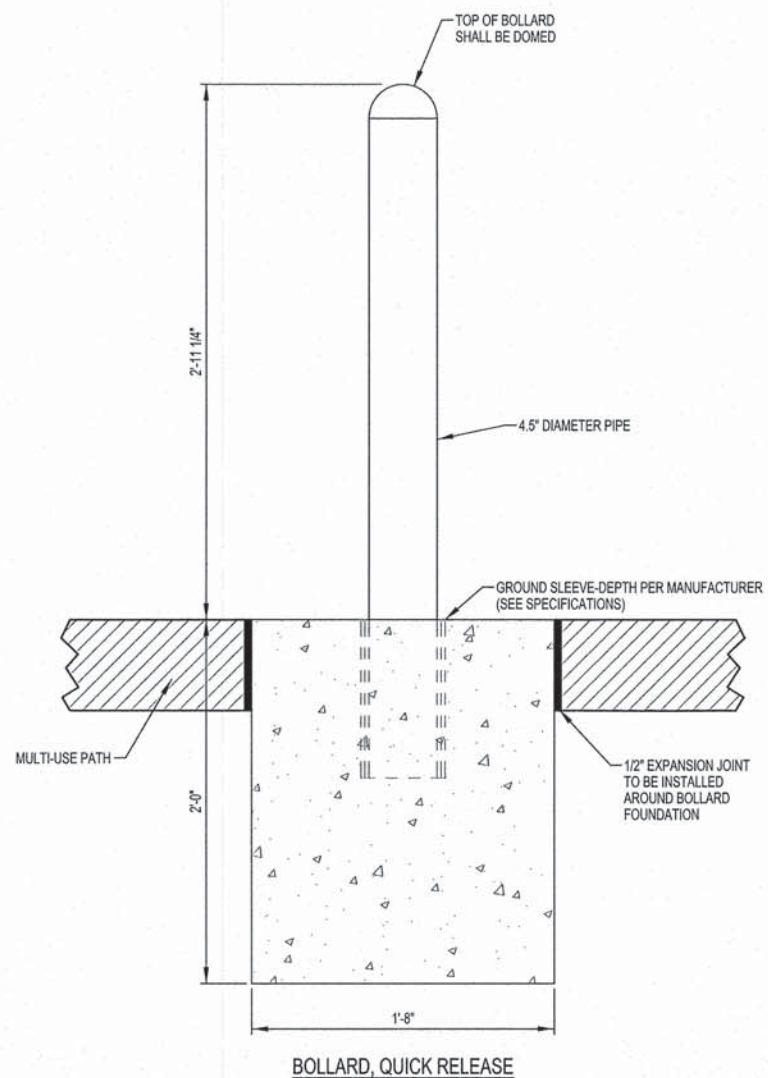
ELEVATION VIEW



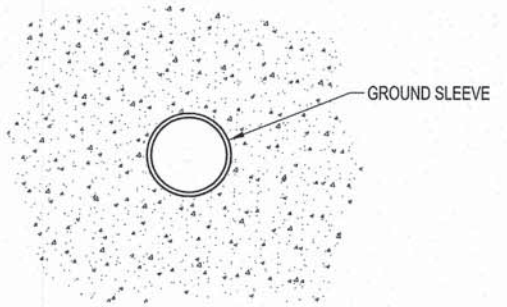
SECTION "A-A"

	MILANO & GRUNLOH ENGINEERS, LLC 114 WEST WASHINGTON P.O. BOX 887 EFFINGHAM, ILLINOIS 62401	BOX CULVERT EXTENSION PLAN AND DETAILS EAGLE TRAIL CITY OF NEWTON SECTION 10-00045-00-BT JASPER COUNTY, ILLINOIS
	Phone: (217) 342-7282 (800) 671-2714 Fax #: (217) 342-3433	
	Web Address: www.mgengineers.com Design Firm #: 184-003108	
	File name: S:\DWG\10\10294\dwg\Box Culvert.dwg Plot date: 04/11/13 at 07:00	

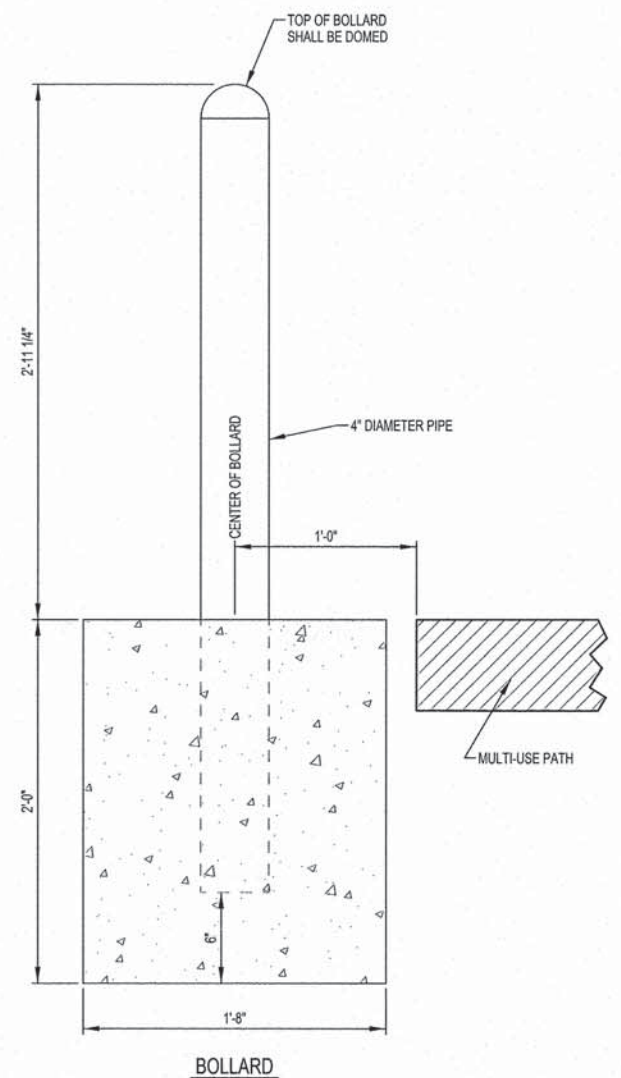
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FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		
CONTRACT #95708				



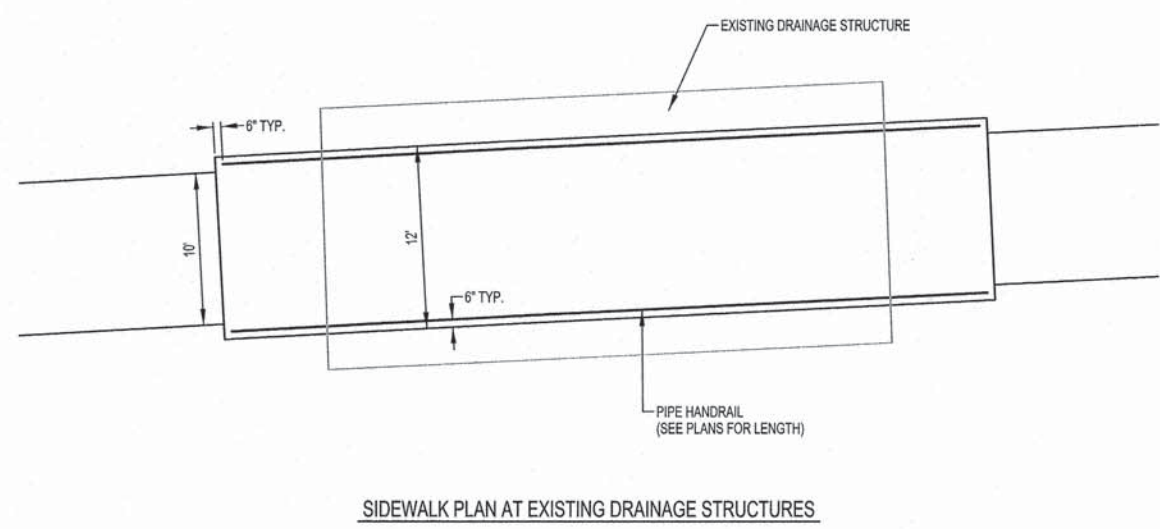
BOLLARD, QUICK RELEASE



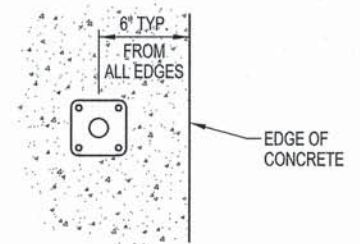
BOLLARD, QUICK RELEASE GROUND SLEEVE DETAIL



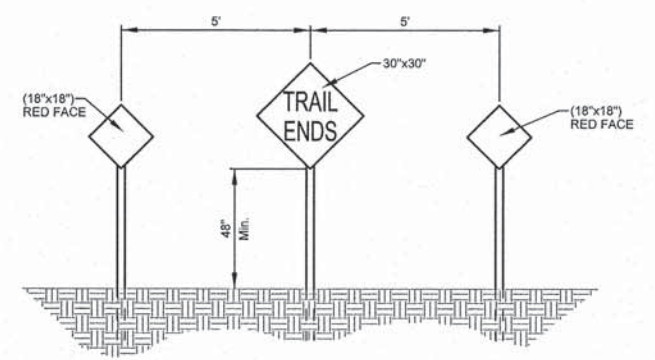
BOLLARD



SIDEWALK PLAN AT EXISTING DRAINAGE STRUCTURES



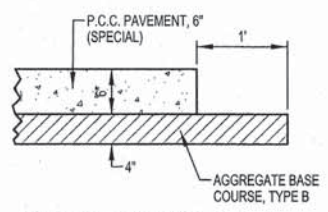
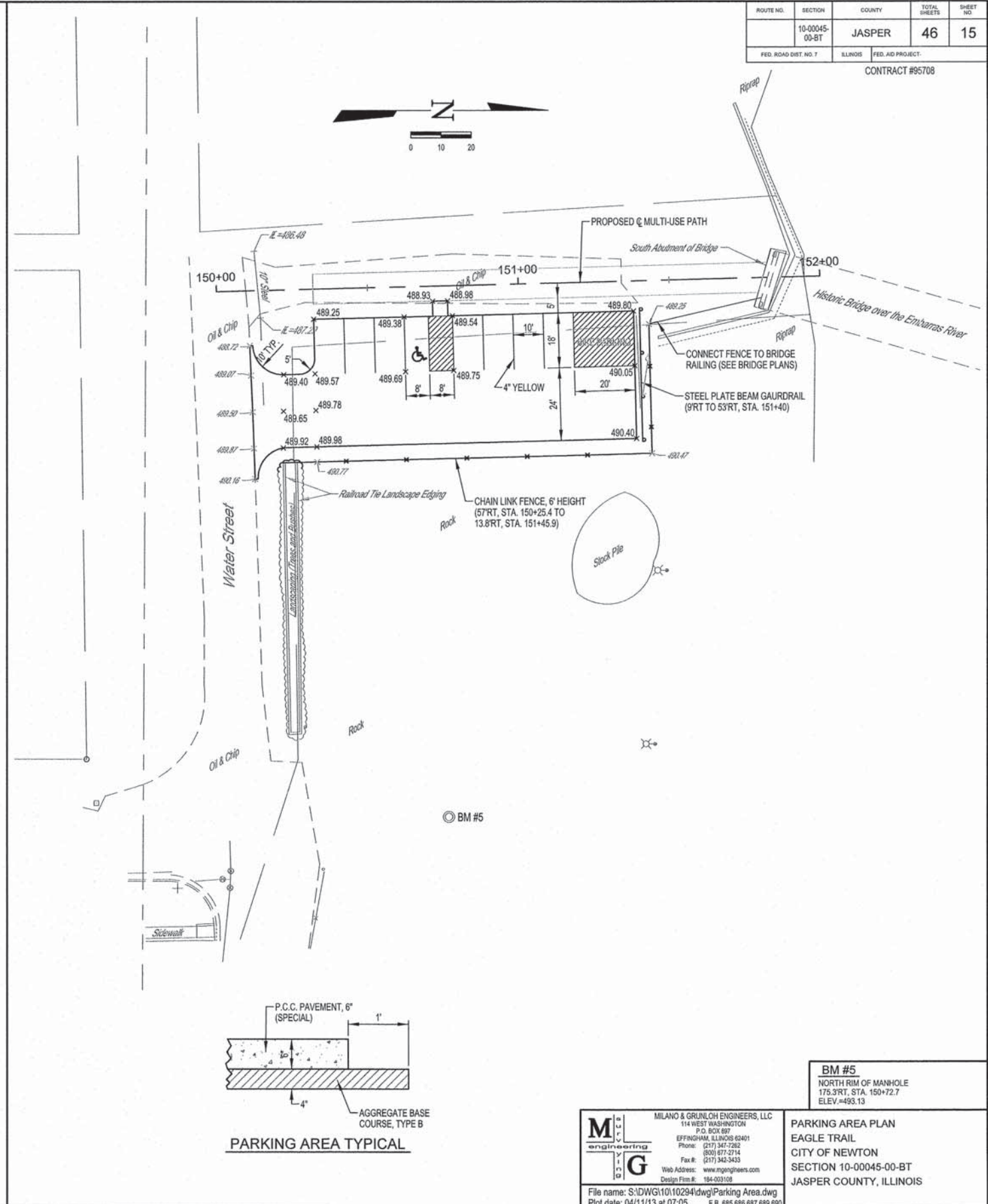
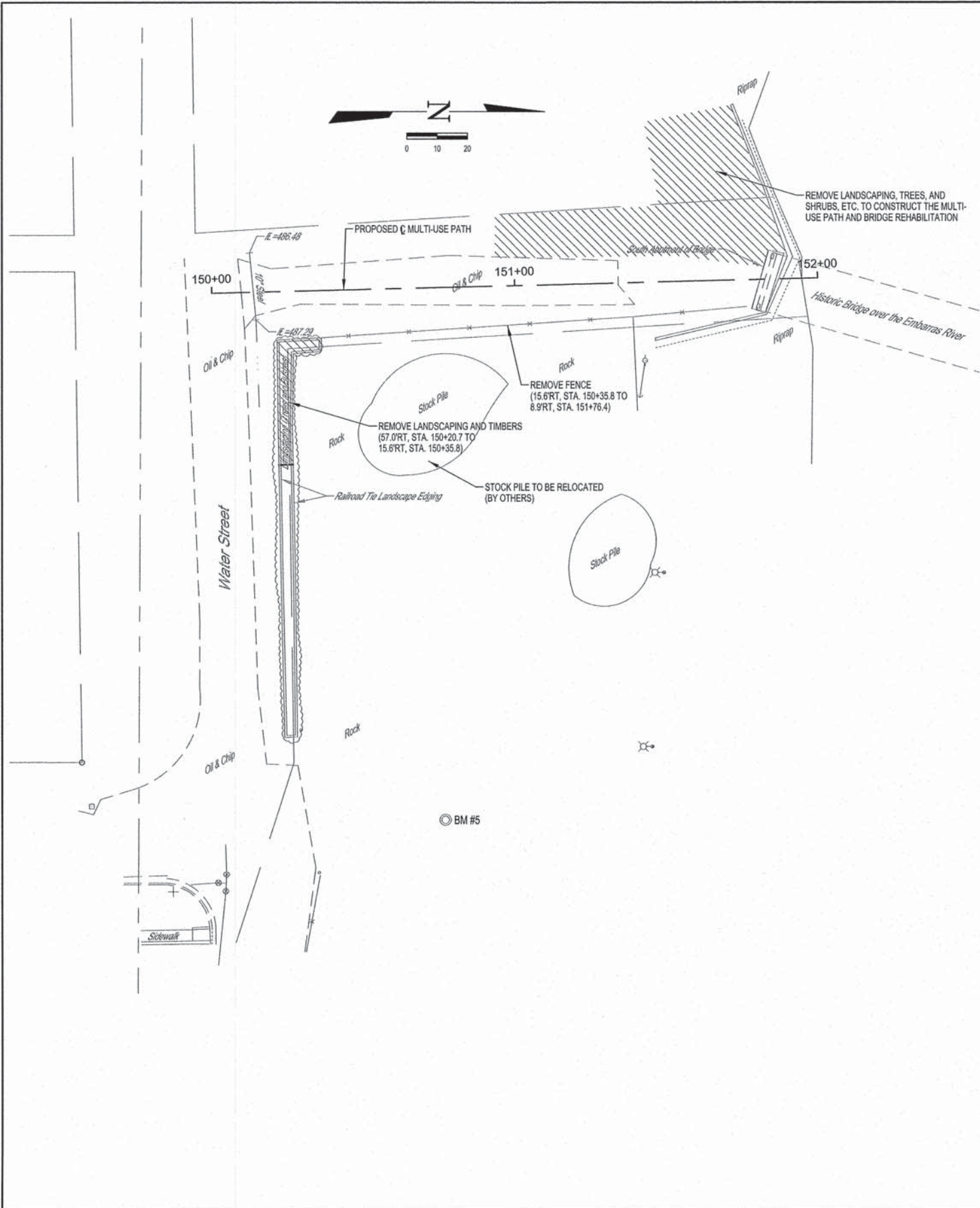
HANDRAIL BASE FLANGE DETAIL



**0'RT., STA. 53+57.00
DETAIL OF TRAIL END SIGNING**
THE SIGN PANELS SHALL CONFORM TO THE
MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
PAID FOR AS SIGN PANEL-TYPE 1 & METAL POST-TYPE A

	MILANO & GRUNLOH ENGINEERS, LLC 114 WEST WASHINGTON P.O. BOX 897 EFFINGHAM, ILLINOIS 62401	MISCELLANEOUS DETAILS EAGLE TRAIL CITY OF NEWTON SECTION 10-00045-00-BT JASPER COUNTY, ILLINOIS
	Phone: (217) 547-7282 (800) 577-2714 (217) 542-3433	
	Fax #: (217) 542-3433 Web Address: www.mgengeers.com Design Firm #: 154-003108	
	File name: S:\DWG\10\10294\dwg\Details.dwg Plot date: 04/11/13 at 07:00	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-00045-00-BT		JASPER	46	15
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT #95708				



PARKING AREA TYPICAL

BM #5
NORTH RIM OF MANHOLE
175.3 RT, STA. 150+72.7
ELEV. = 493.13

MILANO & GRUNLOH ENGINEERS, LLC
114 WEST WASHINGTON
P.O. BOX 897
EFFINGHAM, ILLINOIS 62401
Phone: (217) 347-3282
(800) 677-2714
Fax #: (217) 342-3439
Web Address: www.mgengineers.com
Design Firm #: 184-023108

PARKING AREA PLAN
EAGLE TRAIL
CITY OF NEWTON
SECTION 10-00045-00-BT
JASPER COUNTY, ILLINOIS

File name: S:\DWG\1010294\dwg\Parking Area.dwg
Plot date: 04/11/13 at 07:05 F.B. 685,686,687,689,690

Bench Mark: BM#5. North rim of manhole. 175.3' RT, Sta 150+72.7, Elev 493.13

Existing Structure: S.N. 040-3084 built in 1890.

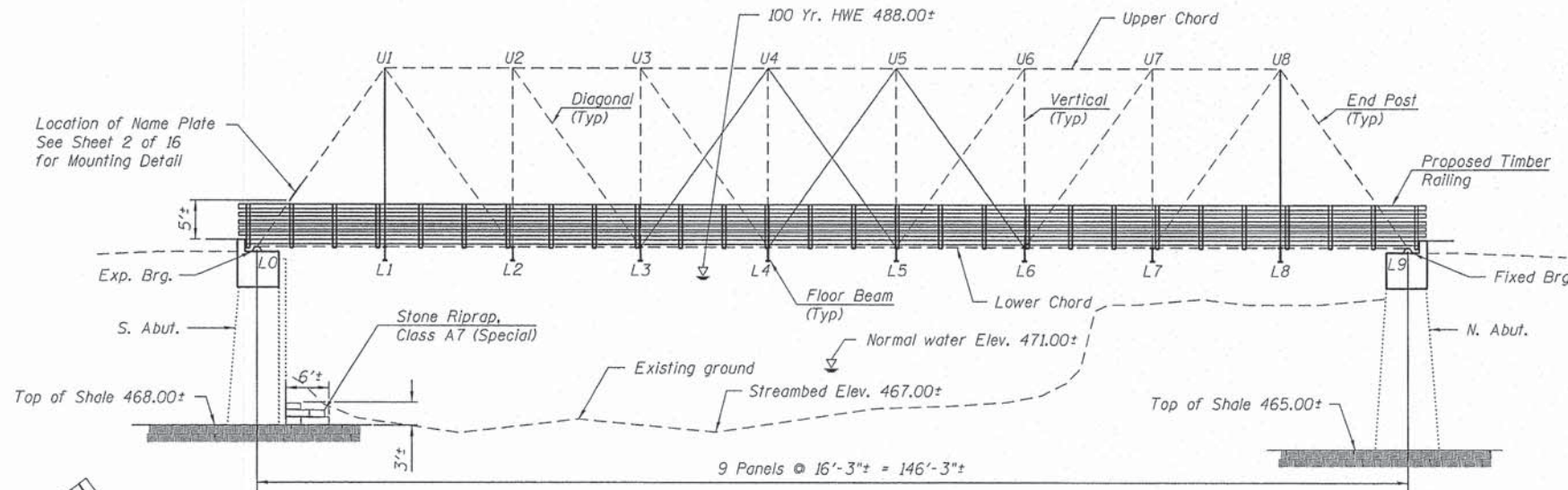
The current structure is a Single Span Thru Pratt Truss Bridge constructed on masonry abutments of large limestone blocks. It has a length of 146'-3" C-C of bearings and a width of ±16'-6" inside to inside of trusses. The floor for the truss consists of treated timber planks resting on 8 steel floor stringers running the length of the bridge. The existing structure will be rehabilitated to carry pedestrian traffic.

Salvaged Materials:

- Existing Limestone removed from abutments shall be salvaged and used as Riprap at the South Abutment and Wingwall.
- Existing barricades and signage shall be stockpiled on site and will be removed by the City of Newton.

INDEX OF SHEETS

- General Plan & Elevation
- General Notes & Bill of Material
- Construction Details
- Truss Layout
- Timber Deck & Railing Plan
- Timber Deck Framing Detail
- Timber Details
- Steel Framing Plan
- Replacement Counter Details
- Pin & Pin Plate Details
- Bearing Details
- North Abutment Details
- South Abutment Details
- Southwest Wingwall Details
- Bridge Approach Railing
- Soil Boring Logs



DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	N. Abut.	S. Abut.
	465.00±	468.00±

LOADING

Vehicle Load: H-10 Truck
 Pedestrian Load: 65 psf uniform load (Primary Members)
 85 psf uniform load (Secondary Members)

DESIGN SPECIFICATIONS

AASHTO 2002 Standard Specifications for Highway Bridges, 17th Edition
 AASHTO 1997 Guide Specifications for Design of Pedestrian Bridges

DESIGN STRESSES

FIELD UNITS (NEW CONSTRUCTION)

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (Steel Members)
 $f_b = 1,600$ psi (Timber)
 $f_b = 1,850$ psi (Timber Planking)

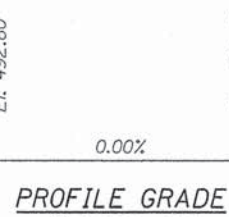
FIELD UNITS (EXISTING CONSTRUCTION)

$f_y = 14,000$ psi (Wrought Iron members)

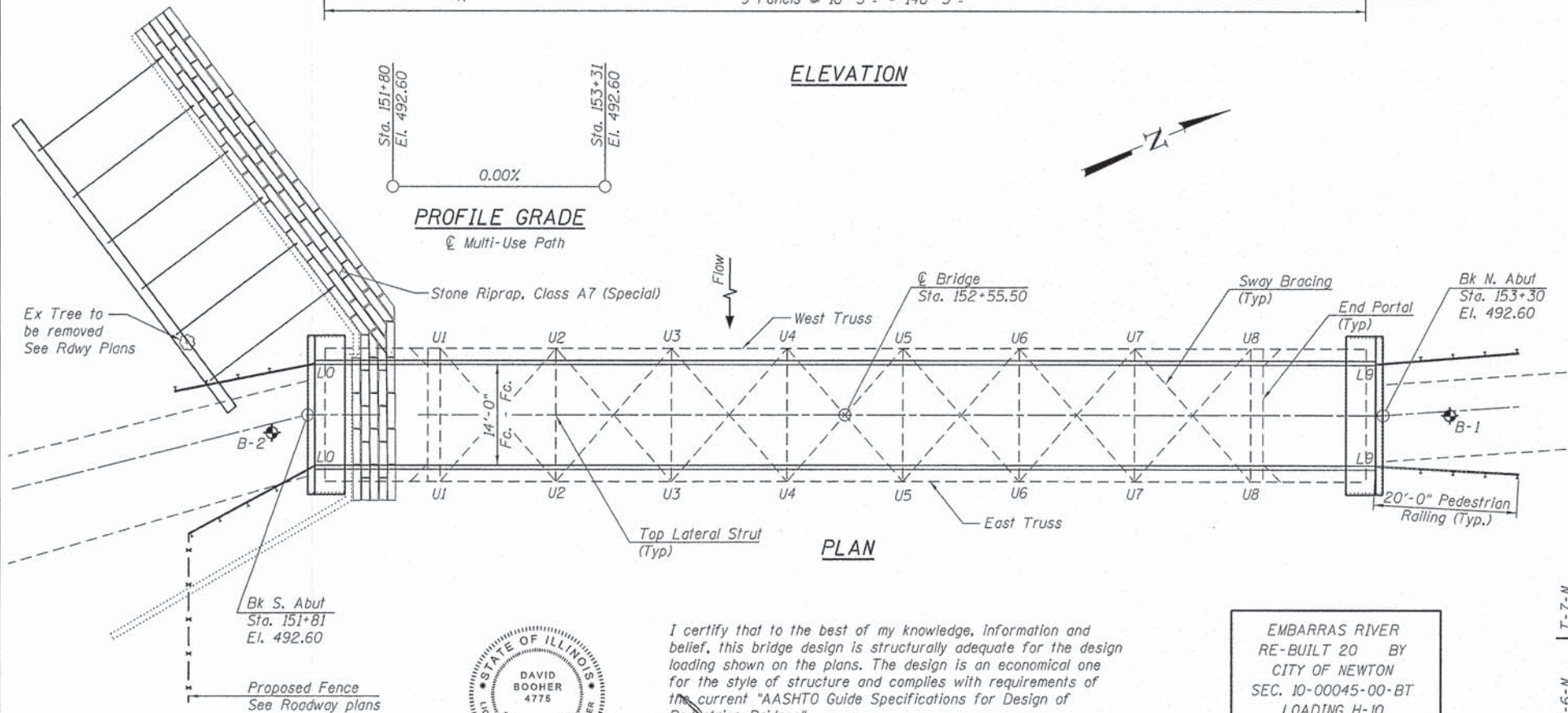
SEISMIC DATA

Seismic Performance Category (SPC) A
 Bedrock Acceleration Coefficient (A) = 0.075g
 Site Coefficient (S) = 2.0

ELEVATION



PLAN



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 "AASHTO Guide Specifications for Design of Pedestrian Bridges".

David Booyer
 David Booyer, Illinois S.E. 081-004775 Date 4-11-2013
 Expires 11-30-2014

EMBARRAS RIVER
 RE-BUILT 20 BY
 CITY OF NEWTON
 SEC. 10-00045-00-BT
 LOADING H-10
 STR. NO. 040-3084

NAME PLATE
 See Std. 515001



GENERAL PLAN AND ELEVATION
TR 164 OVER EMBARRAS RIVER
SECTION 10-00045-00-BT
JASPER COUNTY
STATION 152+55.50
STRUCTURE NO. 040-3084

FILE NAME = S:\Projects\2012\085112-96-510811 R&D Newton Bike Path\CD\0403084-xxxx-001-GPE.dgn
 MODEL = MODEL5
 PLOT DRIVER = PLOTDRIVER



USER NAME = kzhapman	DESIGNED -	REVISED
FILE NAME = 0403084-xxxx-001-GPE.dgn	CHECKED -	REVISED
PLOT SCALE = 40x6.0000 "1" = 1"	DRAWN -	REVISED
PLOT DATE = 4/11/2013	CHECKED -	REVISED

STATE OF ILLINOIS	DESIGNED -	REVISED
DAVID BOOHER	CHECKED -	REVISED
REGISTERED STRUCTURAL ENGINEER	DRAWN -	REVISED
4775	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 040-3084
 SHEET NO. 1 OF 16 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
164	10-00045-00-BT	JASPER	16	16
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

All structural steel shall be AASHTO M 270 Grade 50W. Calculated weight of structural steel = 37,450 pounds.

No field welding is permitted except as specified in the contract documents.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50W.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.

Unless otherwise noted, exposed concrete edges shall have a 3/4" chamfer.

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

The Contractor shall provide and install all necessary timber shims to construct a level deck surface.

Timber deck planks shall be placed with the grain such that cupping will not cause water to sit on a plank.

All structural timber shall be treated to conform to Section 507 of the Standard Specifications.

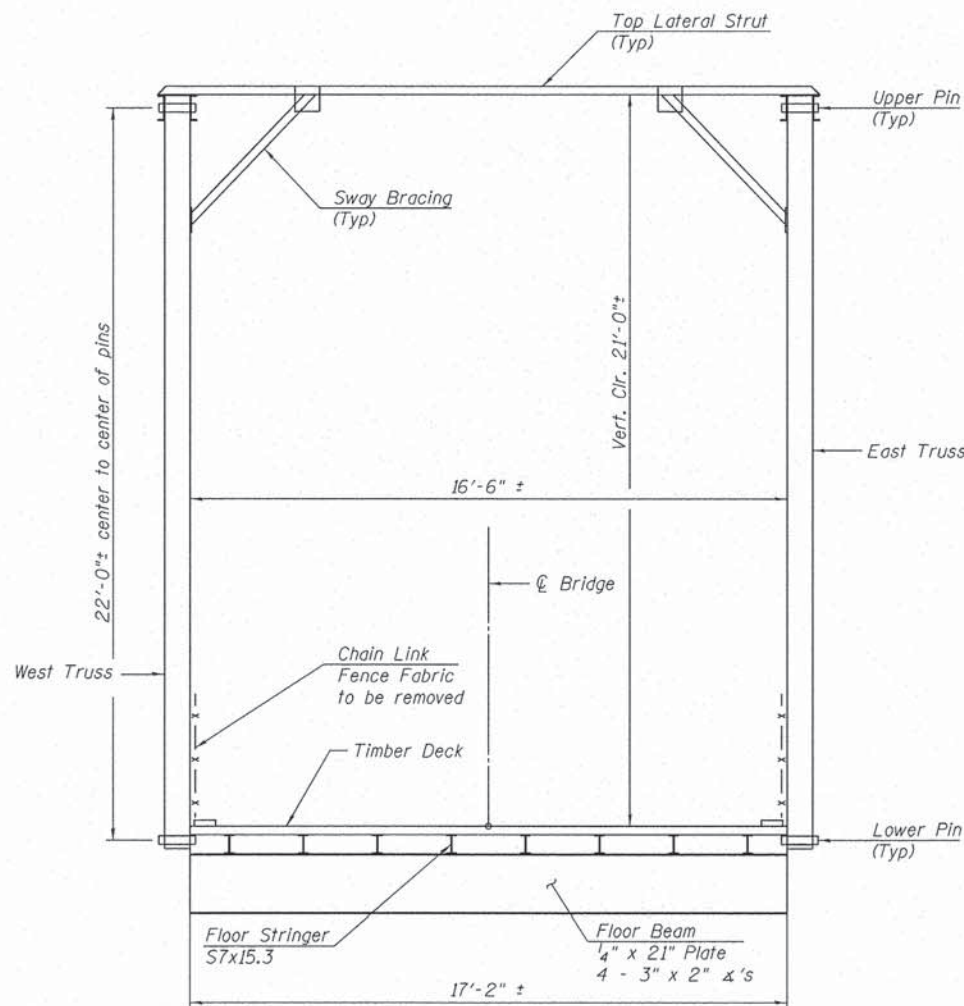
All hardware required for timber construction, including nuts, washers, lag screws, threaded rods and miscellaneous fasteners shall be stainless steel or hot-dipped galvanized and shall conform to Section 507 of the Standard Specifications unless noted otherwise.

If, during the performance of the work, the Contractor finds a conflict or discrepancy related to existing details and dimensions of the existing structure, the Contractor shall report such discrepancies to the Engineer in writing at once and before proceeding with the work affected thereby. The Contractor shall obtain written interpretation or clarification of such discrepancies.

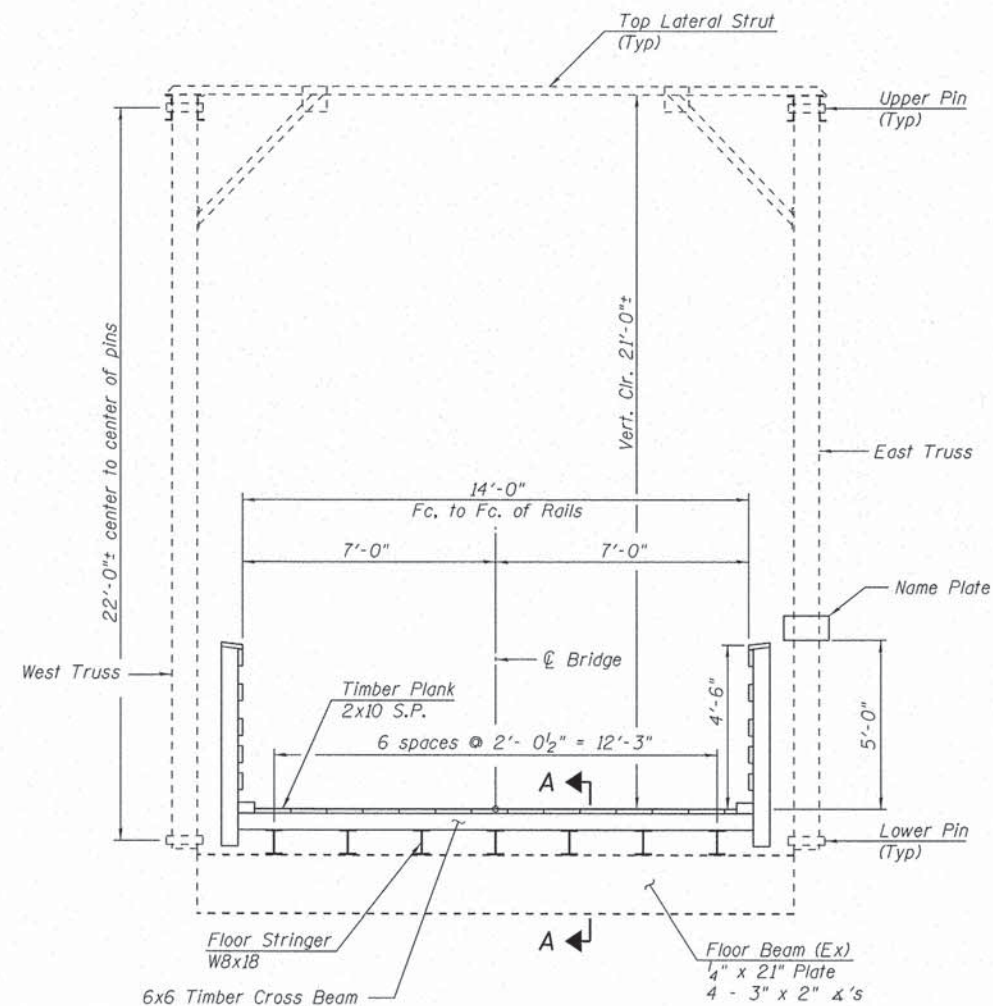
All trees and shrubs within 10' of the bridge wingwalls and abutments shall be removed including roots.

All lumber dimensions given are nominal dimensions. The minimum surfaced areas of timbers shall be as follows:

NOMINAL SIZE	DRESSED
2 x 6	1 1/2" x 5 1/2"
2 x 8	1 1/2" x 7 1/4"
2 x 12	1 1/2" x 11 1/4"
3 x 12	2 1/2" x 11 1/4"
6 x 6	5 1/2" x 5 1/2"
8 x 8	7 1/2" x 7 1/2"



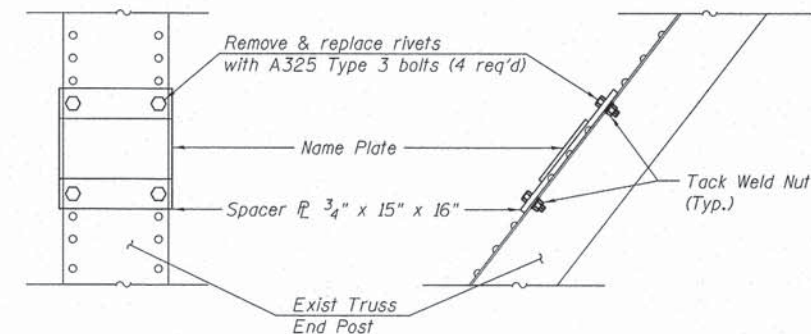
EXISTING CROSS SECTION



PROPOSED CROSS SECTION

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Masonry Removal	Cu Yd		46.0	46.0
Structure Excavation	Cu Yd		284.0	284.0
Concrete Structures	Cu Yd		45.5	45.5
Furnishing & Erecting Structural Steel	Pound	37,450		37,450
Treated Timber	F.B.M.	14,570		14,570
Hardware	Pound	2,780		2,780
Reinforcement Bars, Epoxy Coated	Pound		3,160	3,160
Pedestrian Railing	Foot	80		80
Name Plates	Each	1		1
Elastomeric Bearing Assembly, Type I	Each	2		2
Anchor Bolts, 1 1/4"	Each		12	12
Masonry Cleaning & Tuckpointing	Sq Yd		44.5	44.5
Stone Riprap, Class A7 (Special)	Ton		82	82
Structural Steel Removal	Pound	21,980		21,980
Structural Steel Repair	Pound		100	100
Removal of Existing Timber Floor	Each	1		1
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq Ft		10	10
Jacking & Cribbing	L Sum		1	1
Rivet Removal & Replacement	Each	220		220
Temporary Support System, Location 1	Each		1	1
Temporary Support System, Location 2	Each		1	1



NAME PLATE MOUNTING DETAIL

Notes:
 1. Drill holes in spacer plate to fit over rivet heads.
 2. Weld Name Plate to spacer plate.

FILE NAME = S:\Projects\2012 JOB5112-05-11011 1440 Newton Bike Path\CAD\CADD Sheets\0403084-xxxx-002-01.dgn
 MODEL = #MODEL\$
 PLOT DRIVER = #PLTDRV5\$



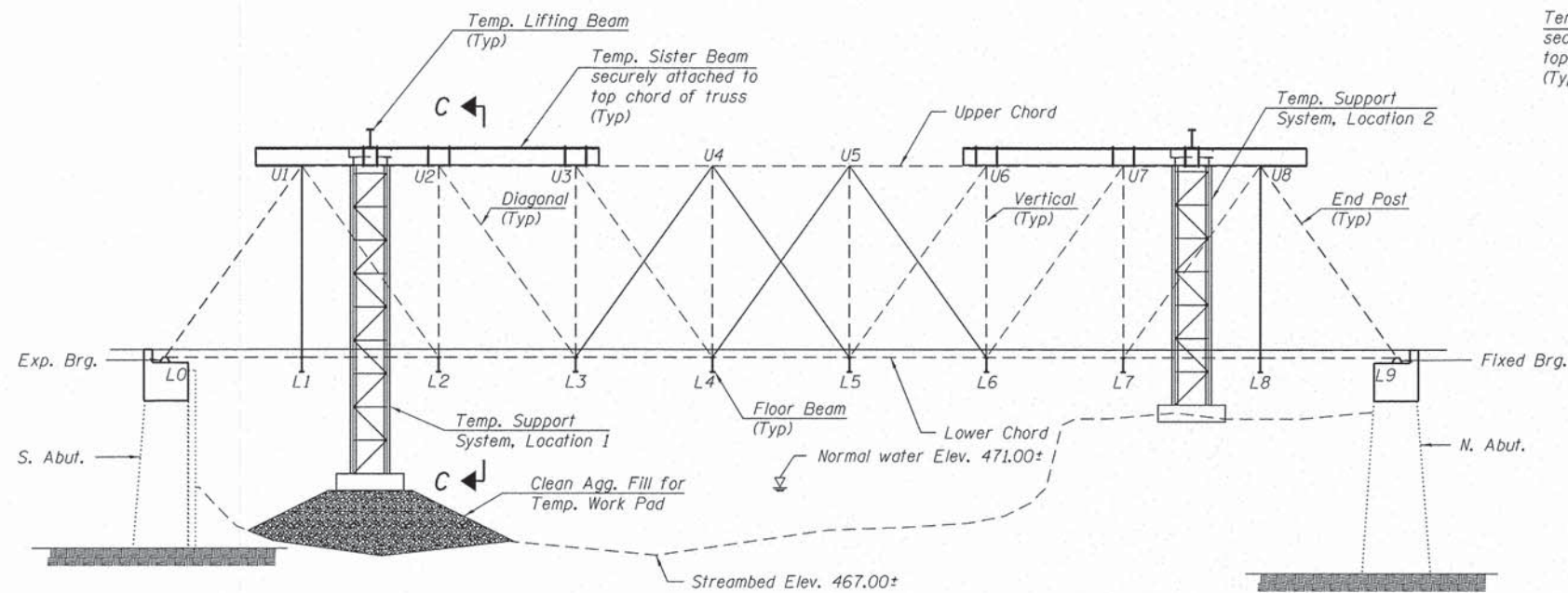
USER NAME = kchapman	DESIGNED -	REVISED
FILE NAME = 0403084-xxxx-002-01.dgn	CHECKED -	REVISED
PLOT SCALE = 400.0019 ' = 1"	DRAWN -	REVISED
PLOT DATE = 4/11/2013	CHECKED -	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

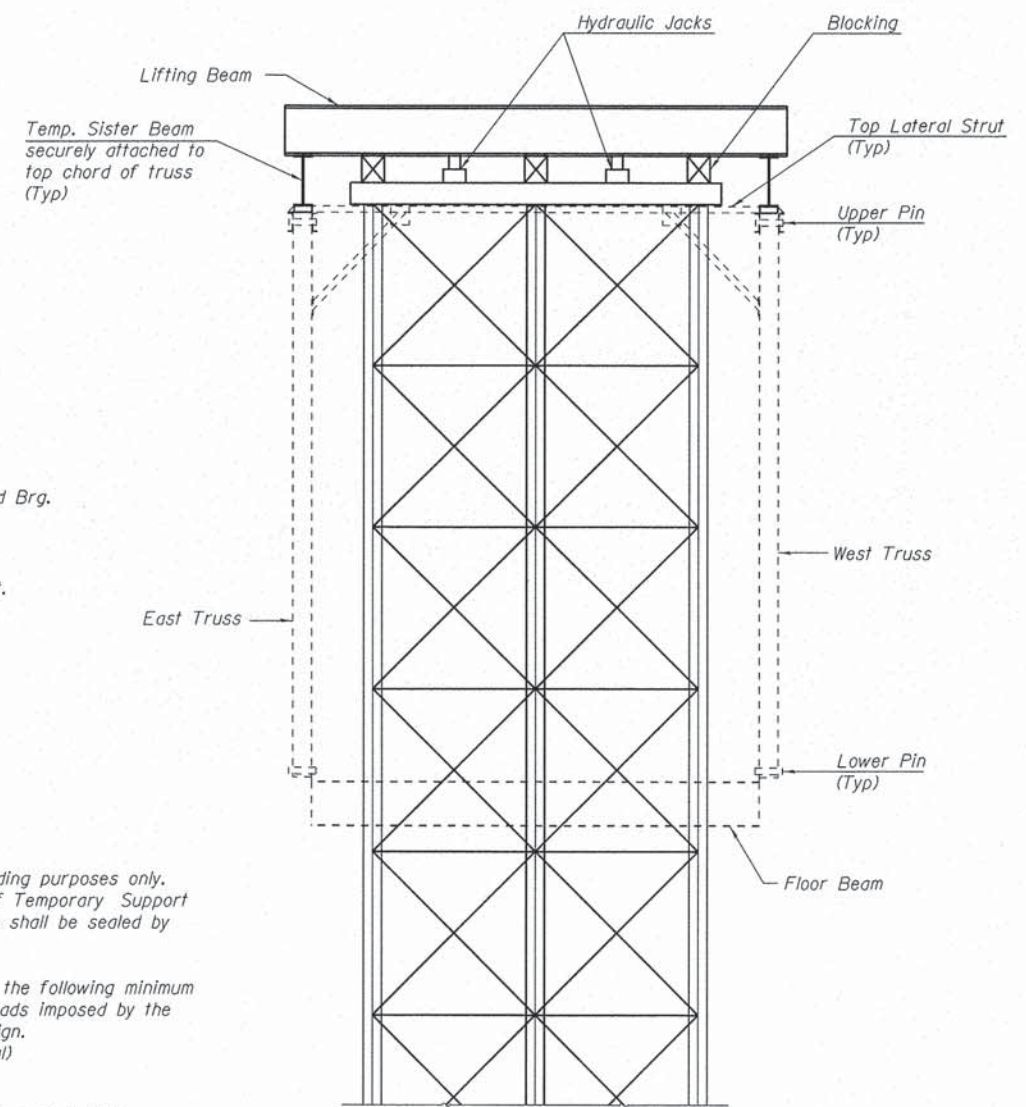
**GENERAL NOTES & BILL OF MATERIAL
 STRUCTURE NO. 040-3084**

SHEET NO. 2 OF 16 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
164	10-00045-00-BT	JASPER	46	17
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



ELEVATION
(Looking West)



VIEW C-C

TEMPORARY SUPPORT NOTES

1. Temporary support details and scheme shown is for bidding purposes only. Contractor shall provide design and working drawings of Temporary Support System intended for use. Design and working drawings shall be sealed by Illinois Licensed Structural Engineer.
2. Temporary support system shall be capable of carrying the following minimum loads with a factor of safety of 2.0. Any additional loads imposed by the Contractor's methods shall be accounted for in the design.
 - a. Dead Load Existing Structure = 90,000 lbs (total)
 - b. Live Load Allowance = 40 psf
 - c. Wind Load Pressure = 20 psf
 - d. Stream Flow Pressure = 27 psf (50 year velocity = 19.3 f/s)
3. South Temporary Support System shall be founded on a Temporary In-Stream Work Pad. North Temporary Support shall be founded on existing ground.
4. Temporary support system shall be designed to allow for jacking and cribbing of the existing structure. Existing structure shall be raised a minimum of 6" above its existing elevation to allow for construction of the abutment caps and removal and replacement of pins and bearings. Existing structure shall be jacked to an upright and level position and blocked or cribbed securely in place. Jacks will only be used to raise and lower structure. Structure will be supported on blocking or cribbing. Cost of this work shall be included in JACKING & CRIBBING.

SCOPE OF WORK

1. Replace bearings.
2. Repair stone abutments and install concrete abutment caps.
3. Replace existing deck with new timber deck and railing.
4. Replace all stringers.
5. Strengthen floor beams with new cover plates.
6. Replace pins at L0, U1, L1, L9, U8 and L8 on both trusses (12 pins).
7. Replace vertical member L1-U1 and L8-U8 on both trusses (4 verticals).
8. Replace diagonal counters L3-U4, L4-U5, L5-U4 and L6-U5 on both trusses (8 counters).
9. Stabilize concrete wall of south abutment using deadman and tiebacks.
10. Complete miscellaneous repairs to other truss members as needed.

SUGGESTED SEQUENCE OF CONSTRUCTION:

1. Repair S.W. Wingwall and install tie-backs and deadman.
2. Construct In-stream pad for temporary bridge support system.
3. Remove existing timber deck and floor stringers.
4. Excavate behind abutments to a depth of six feet±.
5. Construct temporary bridge support system and raise and shore existing truss.
6. Remove existing bearings, replace existing members and pins as indicated and retrofit existing floor beams.
7. Repair existing abutments and pour new concrete abutment caps.
8. Install new bearings, set bridge on new abutment caps and remove temporary bridge supports.
9. Install new stringers and new timber deck and railings.
10. Place Stone Riprap Special against S.W. Wingwall.
11. Remove In-stream pad, returning stream bed to original cross section.

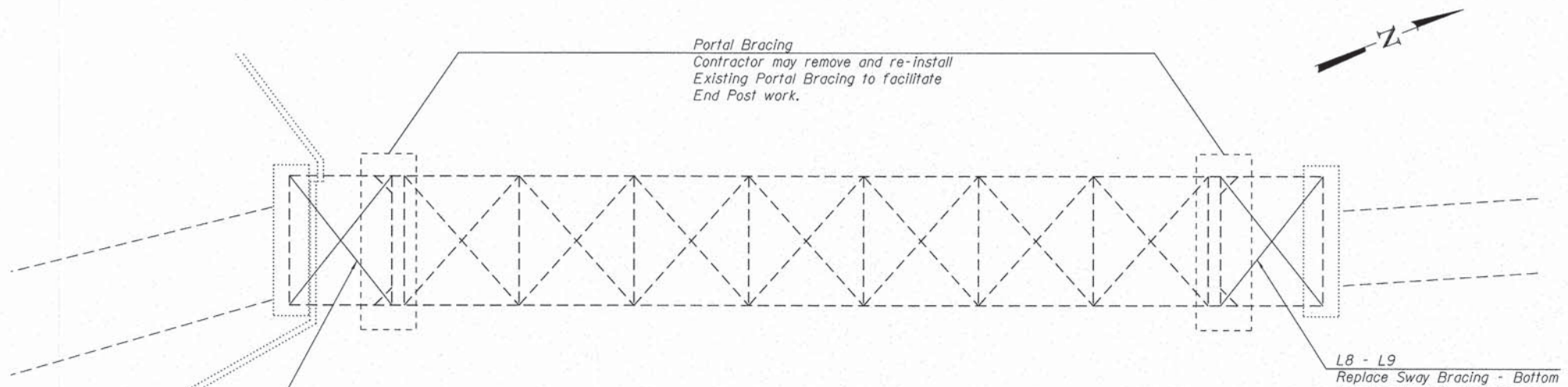
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Temporary Support System, Location 1	Each	1
Temporary Support System, Location 2	Each	1
Jacking & Cribbing	L. Sum	1

FILE NAME = S:\P\Projects\2012 - JOBS\12-06-510811 MAG Newton Bike Path\CAD\CADD Sheets\0403084-xxxx-003-Construction Details.dgn
 MODEL = #MODEL#
 PLOT DRIVER = #PLOTDRVS#

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PLOT DATE = 4/11/2013	CHECKED -	REVISED

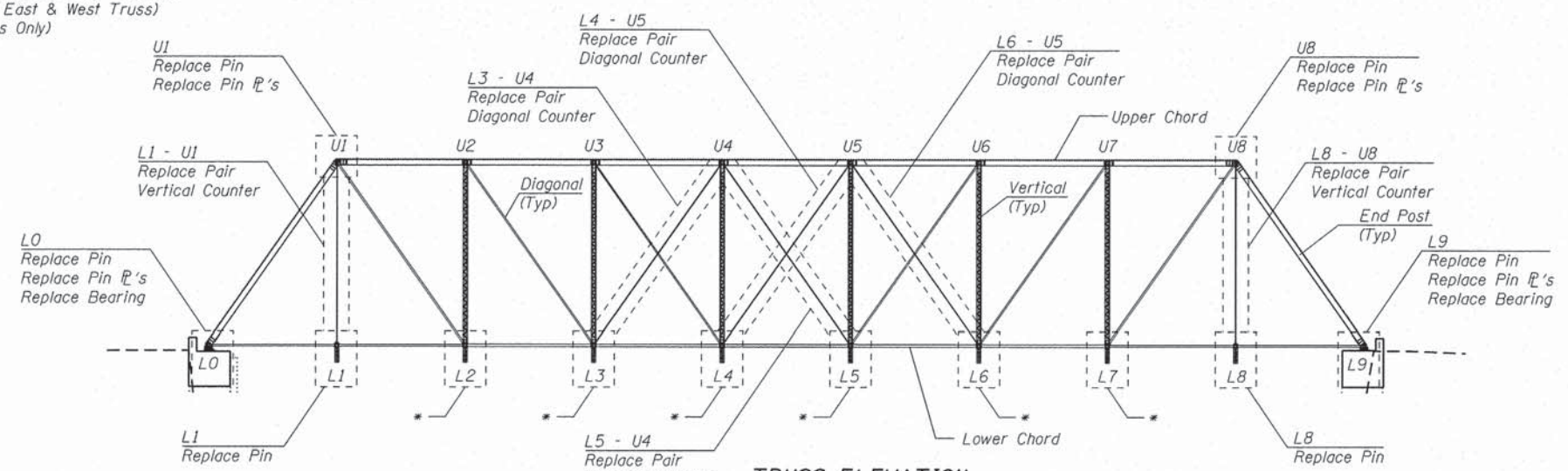
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
164	10-00045-00-BT	JASPER	46	18
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



L0 - L1
Replace Sway Bracing - Bottom
(between East & West Truss)
(End Bays Only)

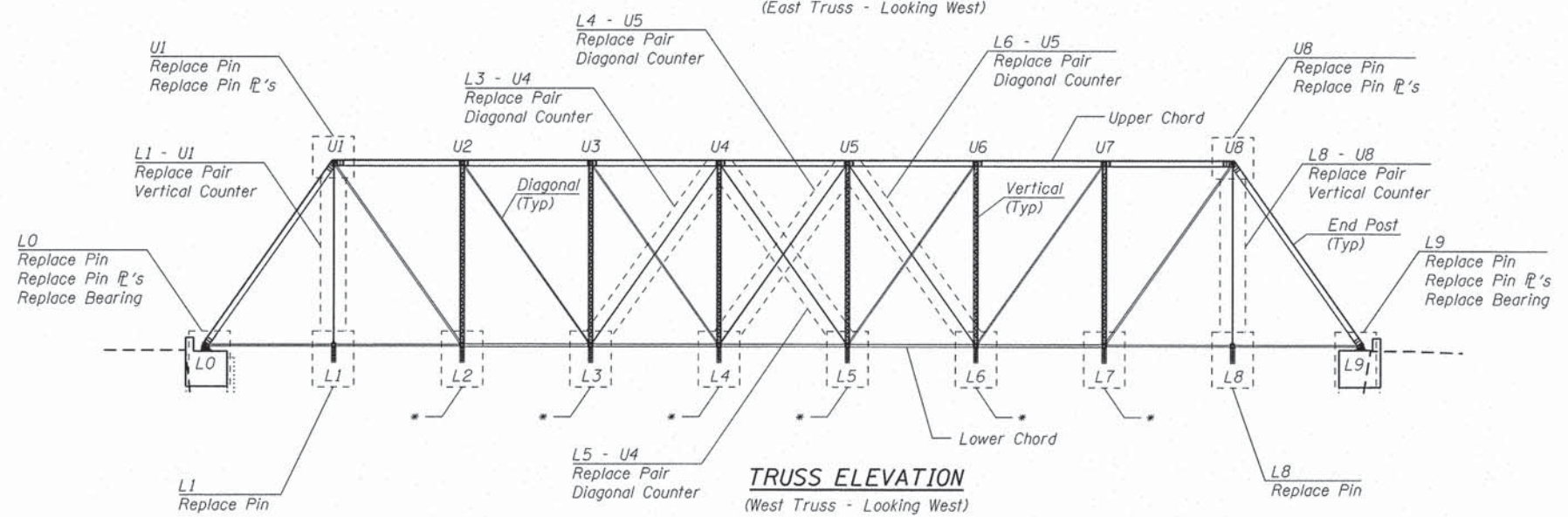
L8 - L9
Replace Sway Bracing - Bottom
(between East & West Truss)
(End Bays Only)

TRUSS PLAN
(Showing Top of Truss)



TRUSS ELEVATION
(East Truss - Looking West)

* L2, L3, L4, L5, L6, L7
Repair Steel



TRUSS ELEVATION
(West Truss - Looking West)

FILE NAME = S:\Projects\2012 Jobs\12-96-510011 H&G Newton Bike Path\CADD\CADD Sheets\0403084-xxxx-004-Truss elev.dgn
 MODEL = MODEL\$
 PLOT DRIVER = PLOTDRIVE\$

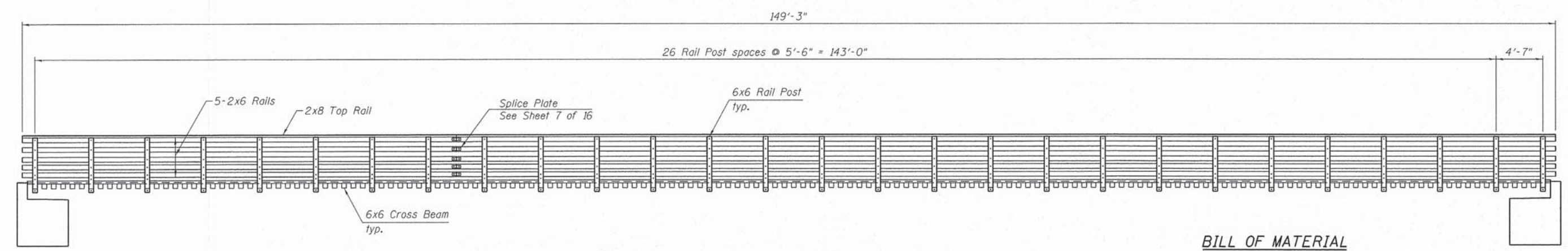
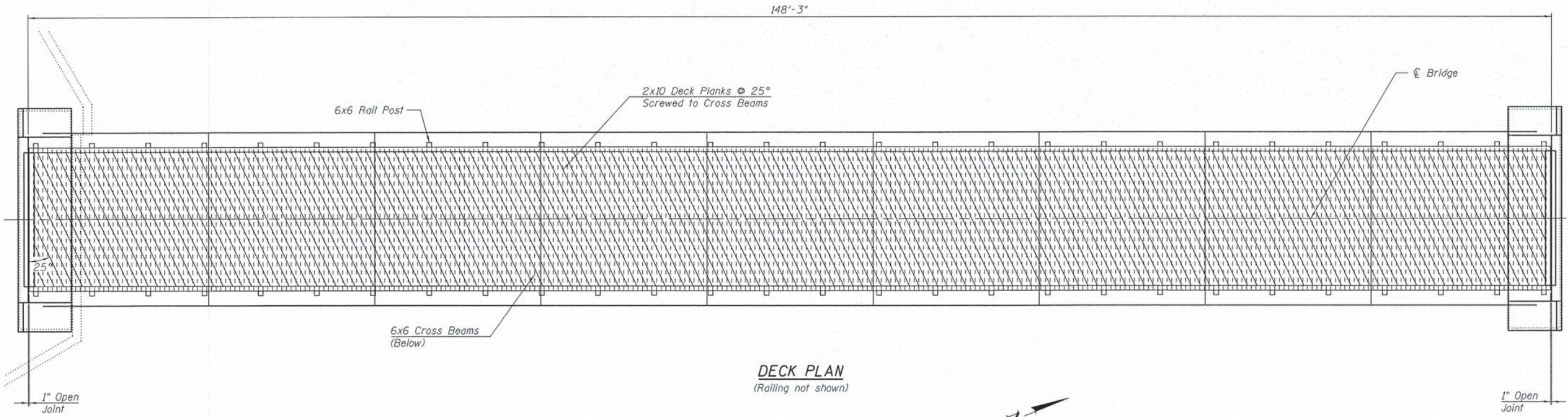


USER NAME = kchapman	DESIGNED -	REVISED
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PLOT SCALE = 200.0000 '1' / in.	DRAWN -	REVISED
PLOT DATE = 4/11/2013	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRUSS LAYOUT
STRUCTURE NO. 040-3084
SHEET NO. 4 OF 16 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
164	10-00045-00-BT	JASPER	76	19
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



BILL OF MATERIAL

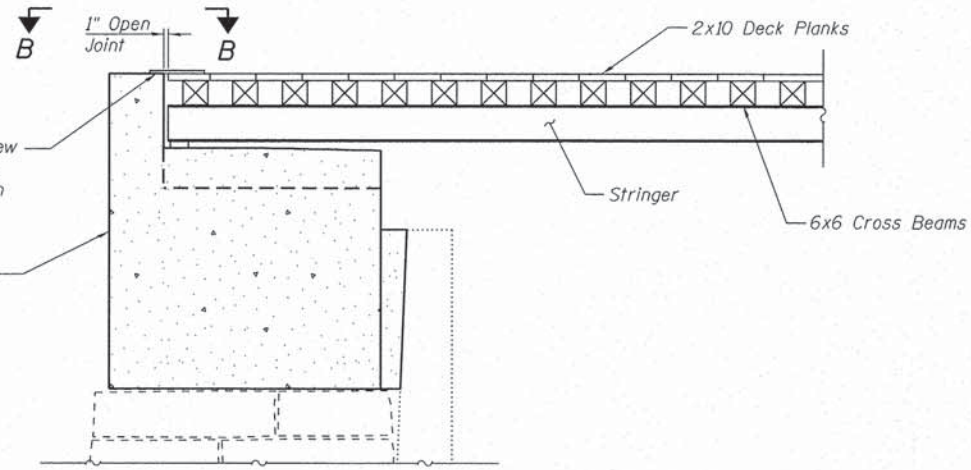
ITEM	UNIT	TOTAL
Treated Timber	F.B.M.	14,570
Hardware	Pound	2,780

RAIL ELEVATION

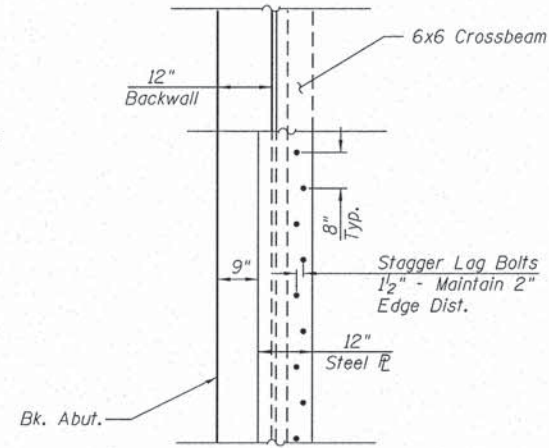
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 PLOT DRIVER = vb...IDOT_PDF...11x17.plt

<p>QUIGG ENGINEERING INC.</p>	USER NAME = S.Dulakis	DESIGNED -	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TIMBER DECK & RAILING PLAN STRUCTURE NO. 040-3084 SHEET NO. 5 OF 16 SHEETS	TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME = 0403084-xxxx-005-Timber Deck&Railing Plan.dgn	DRAWN -	REVISED			164	10-00045-00-BT	JASPER	46	20
	PLOT SCALE = 20x8.0000 '1' / 16"	CHECKED -	REVISED			CONTRACT NO.				
	PLOT DATE = 4/11/2013					ILLINOIS FED. AID PROJECT				

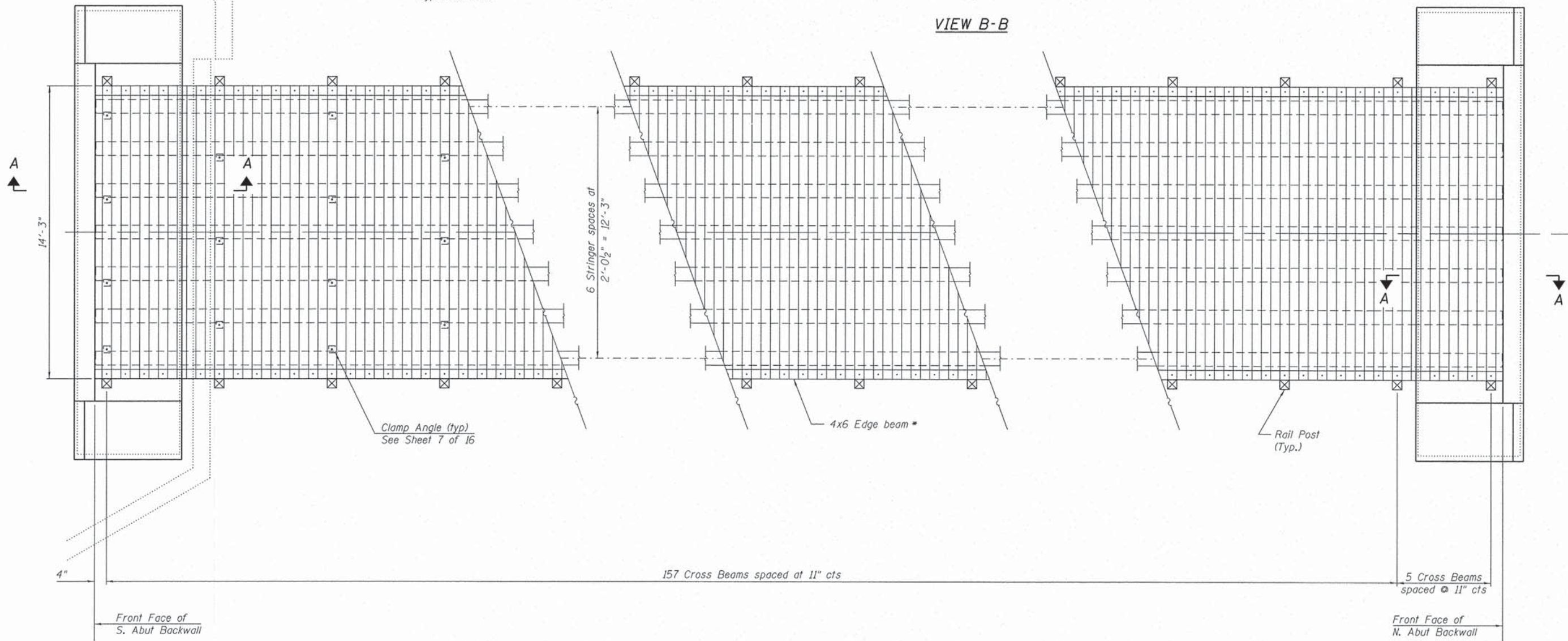
Use 1/4" x 12" x 14'-0"
Bolt to deck using 1/2" x 6" Lag Screw
at 8" cts. (Plate and Bolts shall be
Hot-Dip Galvanized) Cost included in
HARDWARE



SECTION A-A
(Typ Each End)



VIEW B-B



TIMBER DECK FRAMING PLAN
(Deck Planks & Railing Not Shown)

* Provide 4x6 Edge Beam in minimum 10' length. Locate butt joints
between cross beams. No butt joints allowed at rail posts.

See Sheet 5 of 16 For Bill of Material

FILE NAME = S:\Projects\2012\JOBS\12-06-518011\MG Newton Bike Path\CAD\CADD Sheets\0403084-xxxx-006-TimberDeck Framing Detail.dgn
MODEL = MODEL
PLOT DRIVER = PLOTDRVS



USER NAME = kchapman	DESIGNED -	REVISED
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PLOT DATE = 4/11/2013		

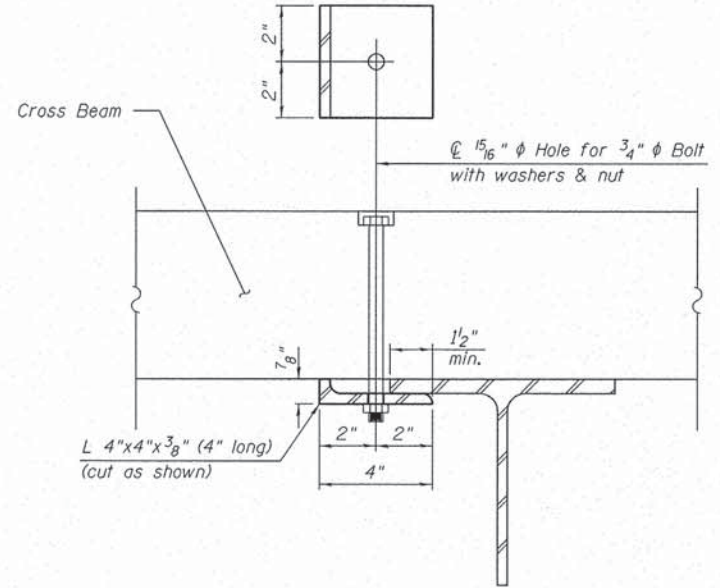
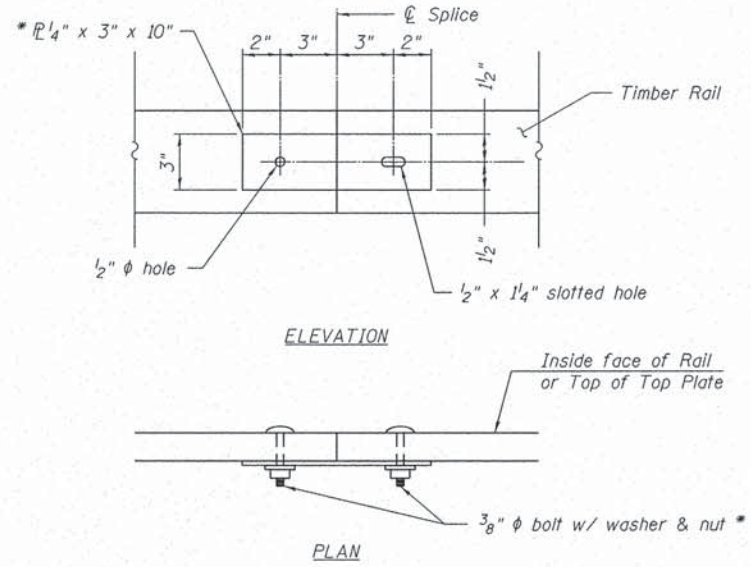
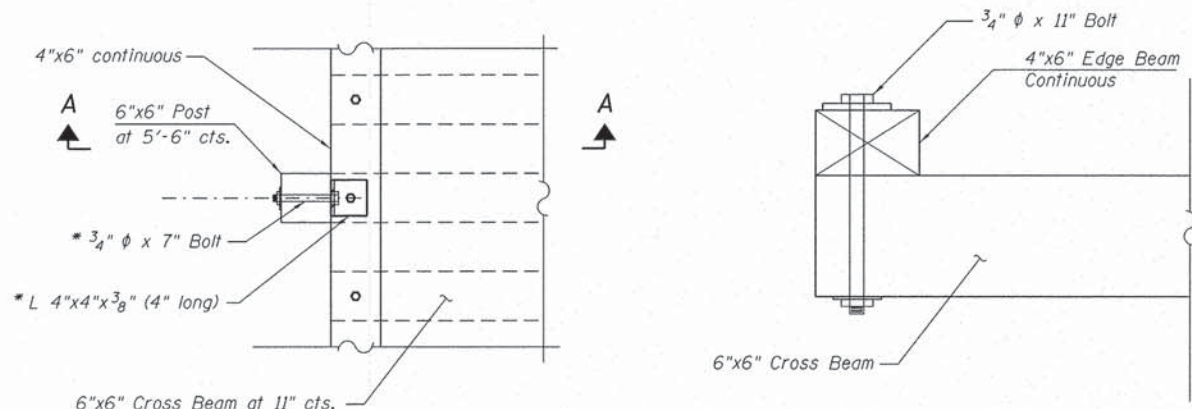
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TIMBER FRAMING DETAILS
STRUCTURE NO. 040-3084

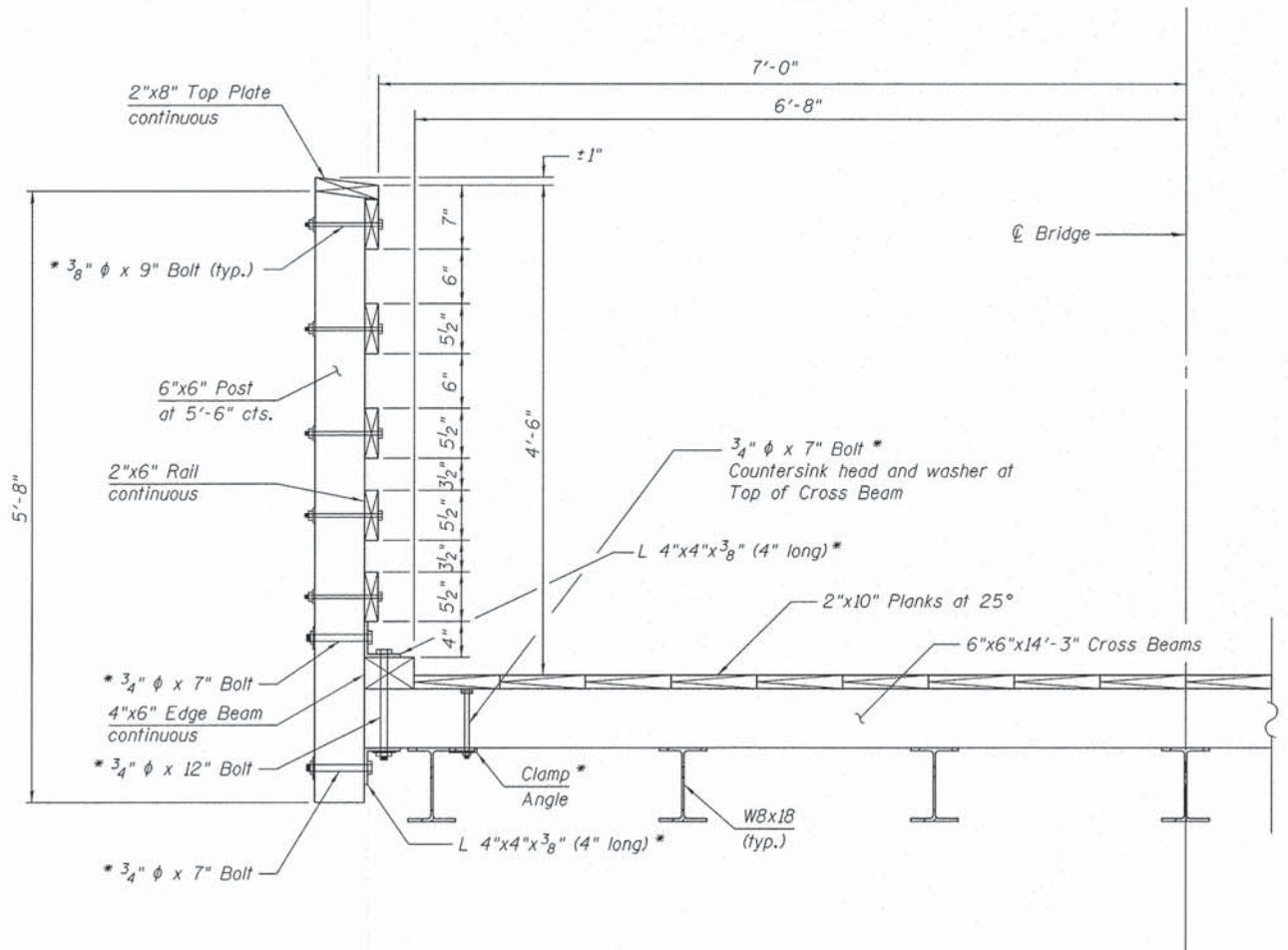
SHEET NO. 6 OF 16 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
164	10-00045-00-BT	JASPER	46	21
CONTRACT NO.				

ILLINOIS FED. AID PROJECT



Note: Minimize splices in rails and top plate. Where possible span 3 rail posts. All bolts shall be Carriage Bolts with washer under head and nut unless otherwise shown.



* Weight included in HARDWARE

See Sheet 5 of 16 for Bill of Material

TIMBER DECK SCHEDULE

Description	Nominal Size	No.	Length (Foot)	Total Area (Sq Ft)	Foot Board Measure
Deck Plank	2x10	17	148'-3"	2,100.21	4,200.42
Cross Beam	6x6	162	14'-3"	1,154.25	6,925.50
Edge Beam	4x6	2	148'-3"	148.25	593.00
				Total	11,718.92
				Use	11,720

TIMBER RAILING SCHEDULE

Description	Nominal Size	No.	Length (Foot)	Total Area (Sq Ft)	Foot Board Measure
Post	6x6	56	5'-8"	158.76	952.56
Top Plate	2x8	2	149'-3"	199.00	398.00
Rails	2x6	10	149'-3"	746.25	1,492.50
				Total	2,843.06
				Use	2,850

DECK HARDWARE SCHEDULE

Description	No.	Weight per Each	Total Weight (Lbs.)	Comments
3/4" x 12" Bolt w/nut & 2 washers	56	1.81	101.36	1 per post
3/4" x 11" Bolt w/nut & 2 washers	268	1.69	452.92	2 per cross beam - posts
3/4" x 7" Bolt w/nut & 2 washers	98	1.18	115.64	alt. 3 or 4 per post beam
Clamp Angle 4"x4"x3/8" (4" long)	98	3.23	316.54	alt. 3 or 4 per post beam
Joint Plate 12"x4" (14' long)	2	147.17	294.34	1 each end
Lag Screw 1/2" x 6"	42	0.31	13.02	21 each end
Deck Screw 3/8" x 6"	2592	0.21	544.32	2/plank at intersection w/ cross beam
			Total	1838.14
			Use	1840

RAILING HARDWARE SCHEDULE

Description	No.	Weight per Each	Total Weight (Lbs.)	Comments
3/8" x 9" Bolt w/nut & washer	280	0.31	86.8	5 per post
3/4" x 7" Bolt w/nut & washer	112	1.13	126.56	2 per post
Post Angle 4"x4"x3/8" (4" long)	112	3.23	361.76	2 per post
Top Plate screws 3/8"x6"	112	0.21	23.52	2 per post
Splice Plate 3"x10"x4"	144	2.13	306.72	est. 12 per rail and top PL
Splice 3/8" x 3" Bolt w/nut and washer	288	0.12	34.56	2 per splice
			Total	939.92
			Use	940

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 QUIGG ENGINEERING INC

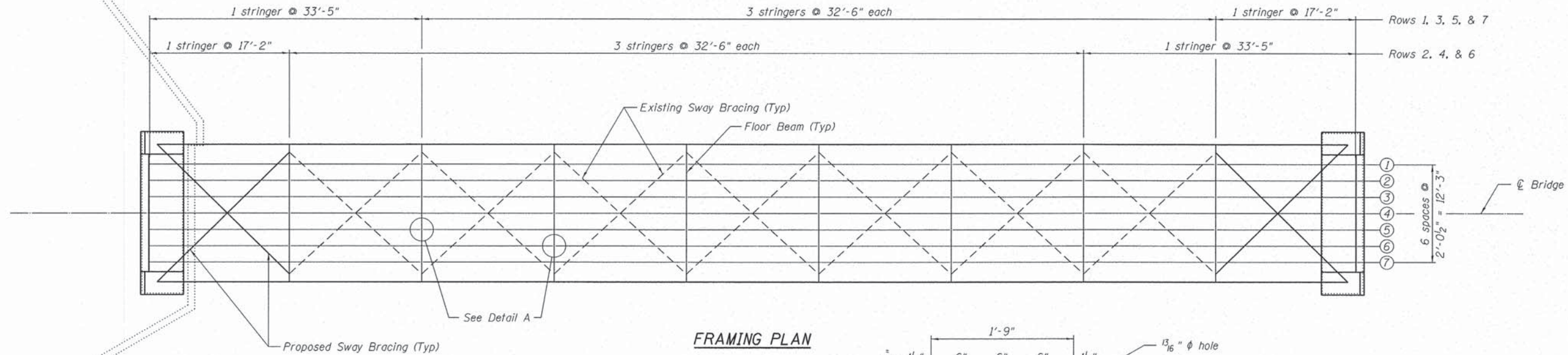


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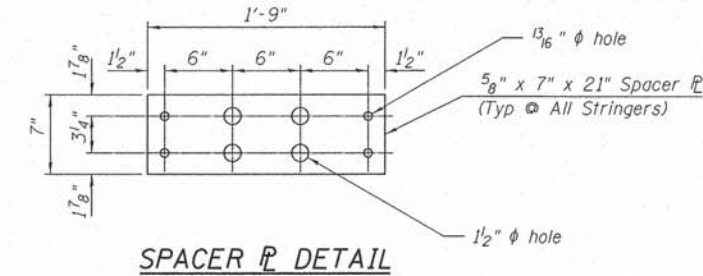
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TIMBER DETAILS
STRUCTURE NO. 040-3084**

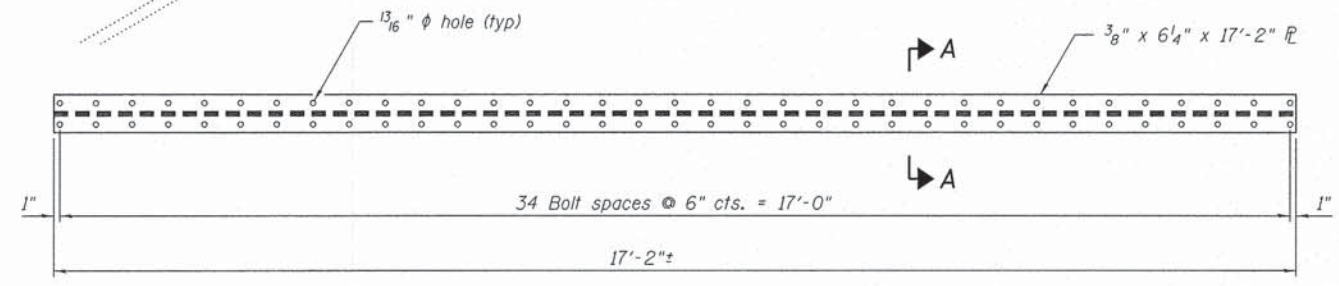
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
164	10-00045-00-BT	JASPER	76	22
			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				



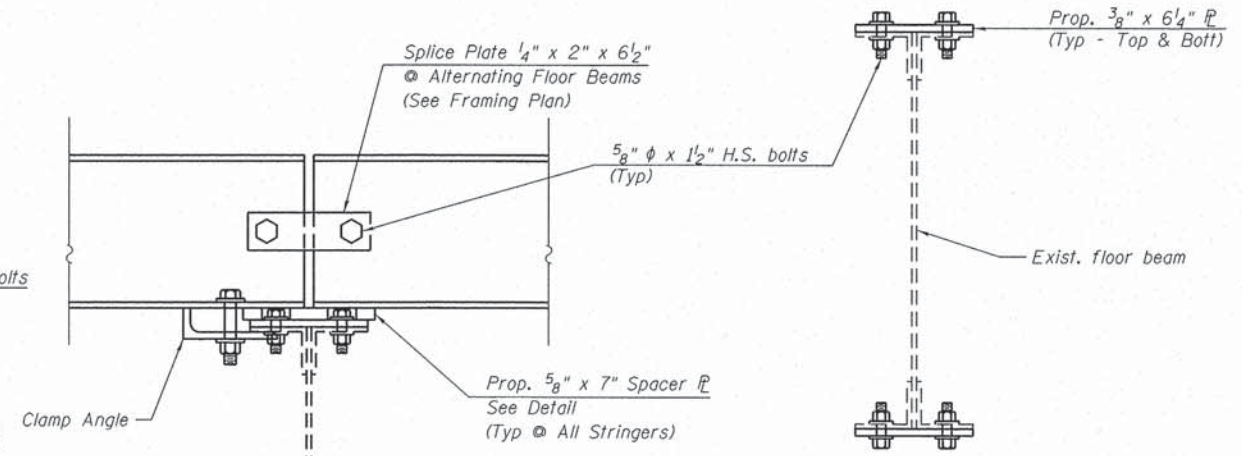
FRAMING PLAN



SPACER PLATE DETAIL



FLOOR BEAM PLAN

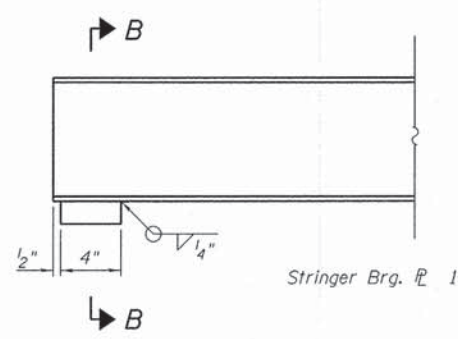


DETAIL A

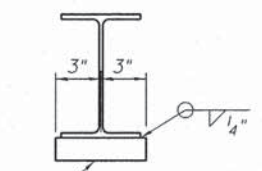
SECTION A-A
(Floor Beam Strengthening)

BILL OF MATERIAL

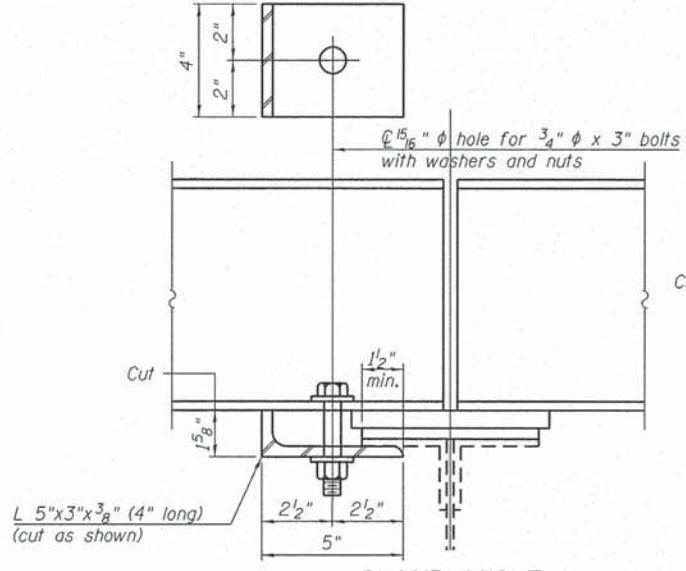
ITEM	UNIT	TOTAL
Furnishing & Erecting Structural Steel	Pound	24,060
Structural Steel Removal	Pound	17,910



STEEL STRINGER ELEVATION



SECTION B-B



CLAMP ANGLE

(56 Required)

Notes:
All steel shall be AASHTO M270, Grade 50W.

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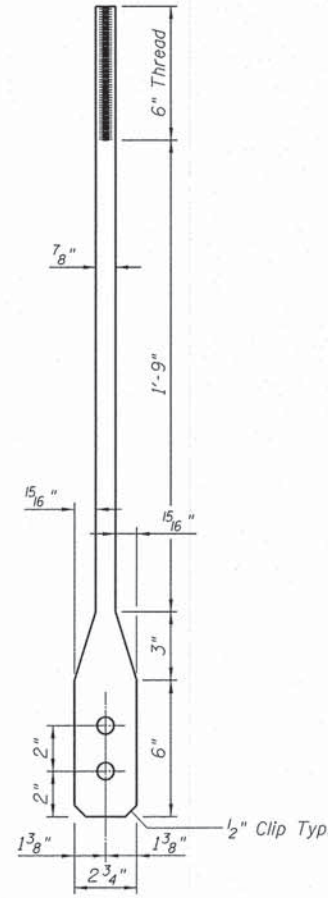
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

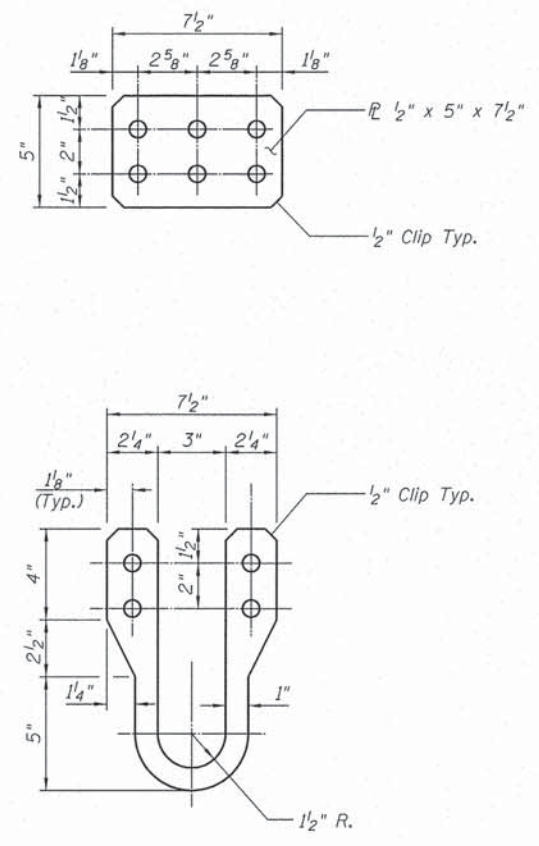
STEEL FRAMING PLAN
STRUCTURE NO. 040-3084

SHEET NO. 8 OF 16 SHEETS

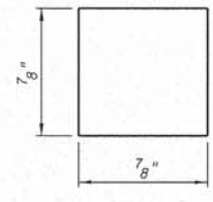
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



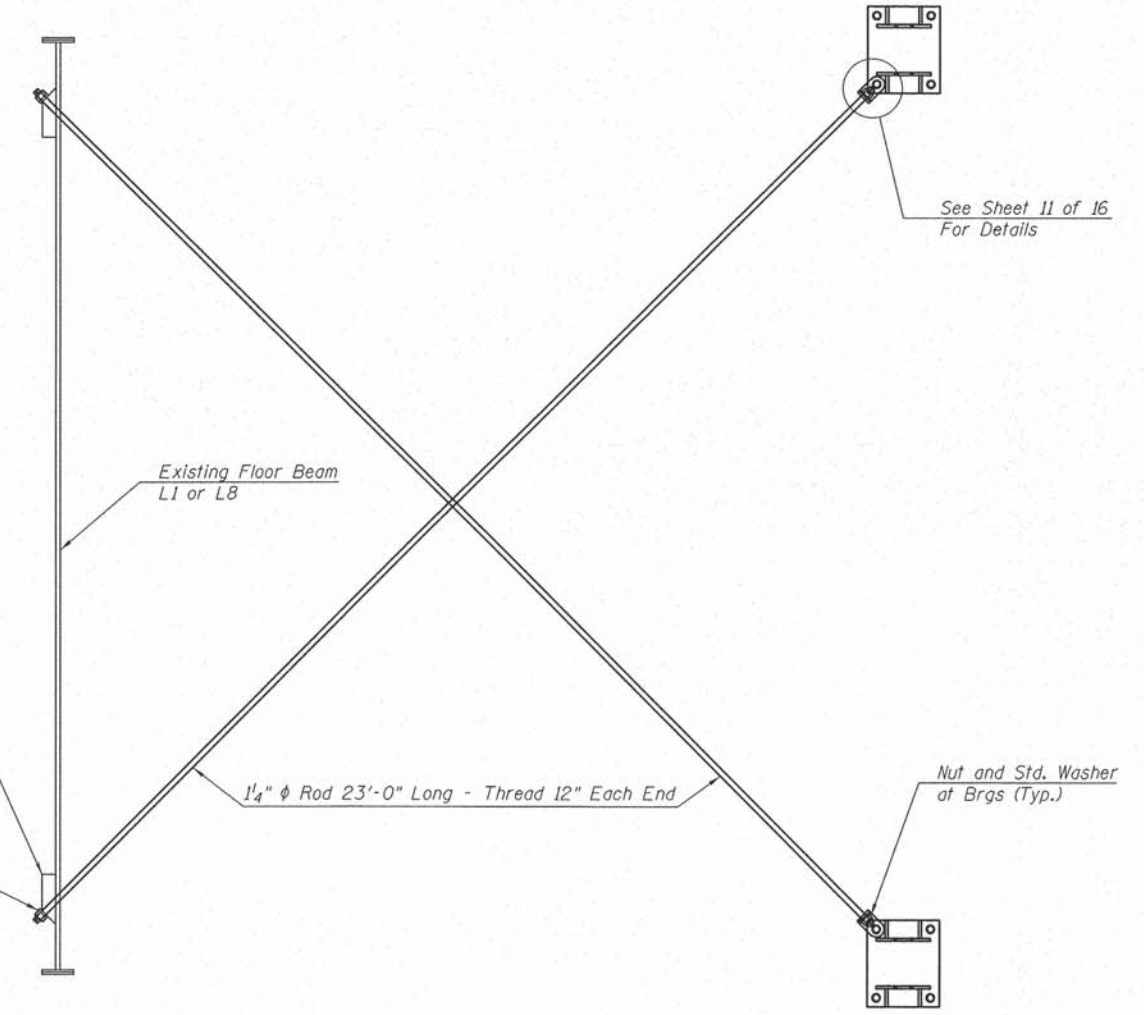
COUNTER END
(Fabricate From 7/8" Plate)



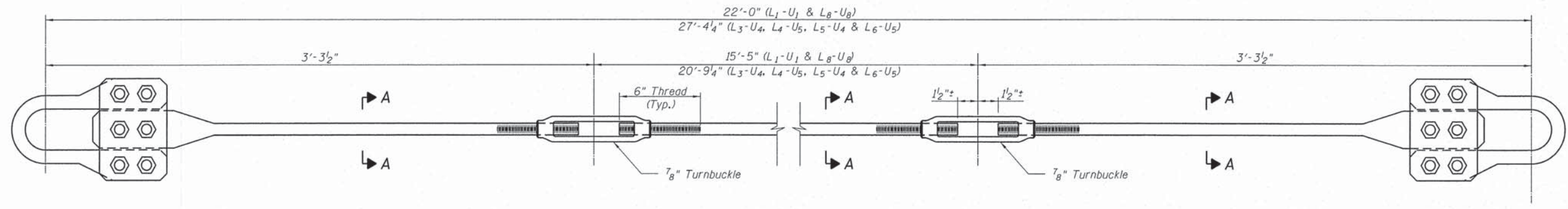
COUNTER PIN CONNECTOR
(Cut From PL 7/8" x 7 1/2" x 11 1/2")



SEC A-A



PLAN - SWAY BRACING - BOTTOM
(Typical End Bays)



PLAN

Notes

1. Structural Steel for Counters and Sway Bracing shall conform to AASHTO M270, Grade 50W.
2. Bolts for Counters shall conform to ASTM A325, Type 3.
3. All Counters are installed in pairs.
4. Cost of steel members and hardware for Counters and Sway Bracing is included in FURNISHING & ERECTING STRUCTURAL STEEL.
5. Removal of existing Counters and Sway Bracing shall be included in the cost for STRUCTURAL STEEL REMOVAL.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Furnishing & Erecting Structural Steel	Pound	6,550
Structural Steel Removal	Pound	2,520

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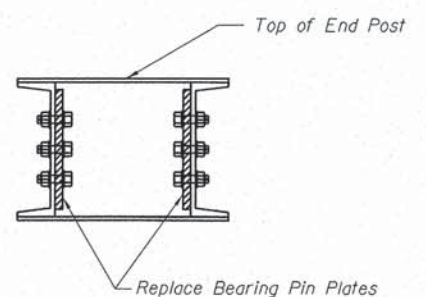
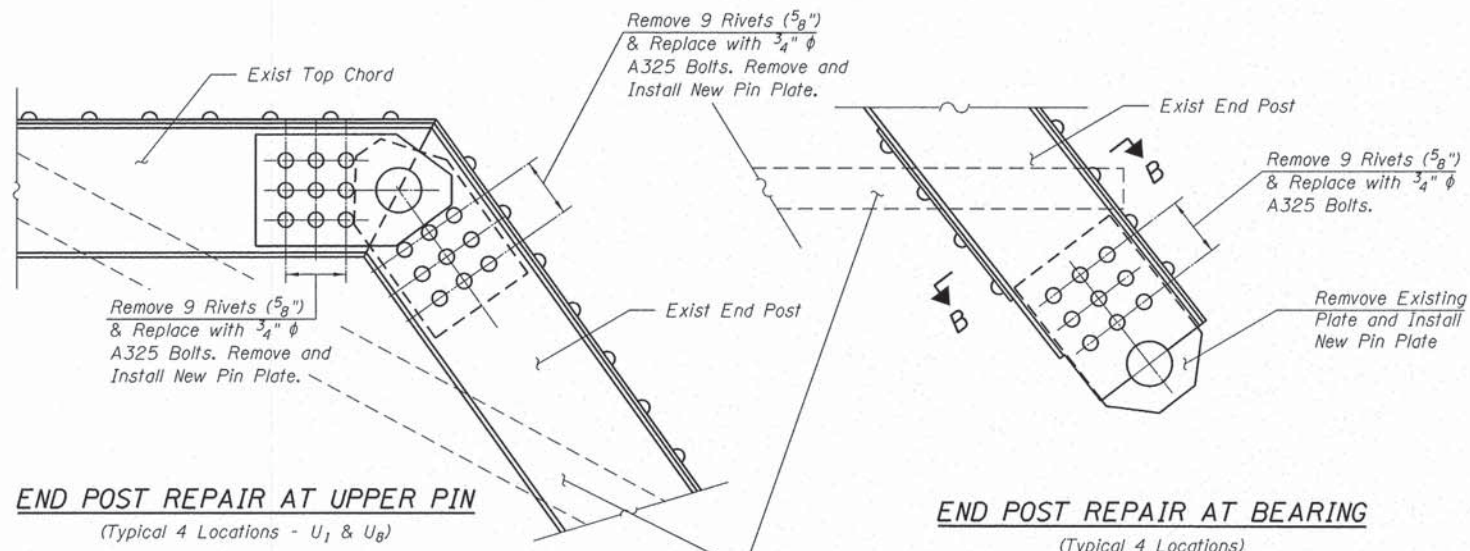


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STATE OF ILLINOIS
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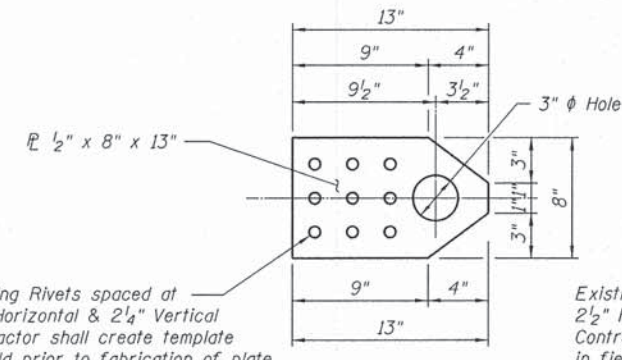
REPLACEMENT COUNTER DETAILS
STRUCTURE NO. 040-3084
SHEET NO. 9 OF 16 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
164	10-00045-00-BT	JASPER	40	27
CONTRACT NO.				
[ILLINOIS] FED. AID PROJECT				



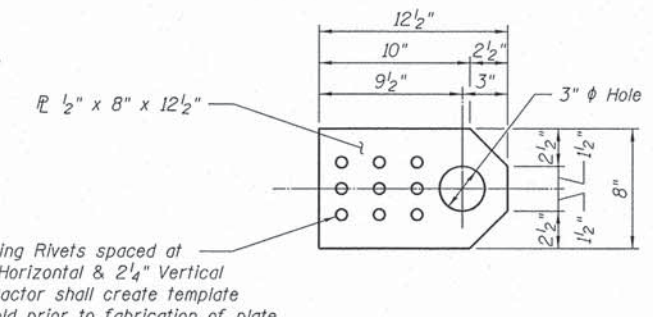
SECTION B-B

Temporary bracing shall be installed prior to removal of rivets. Temporary bracing shall hold truss in position during repairs. Cost included in FURNISHING & ERECTING STRUCTURAL STEEL.



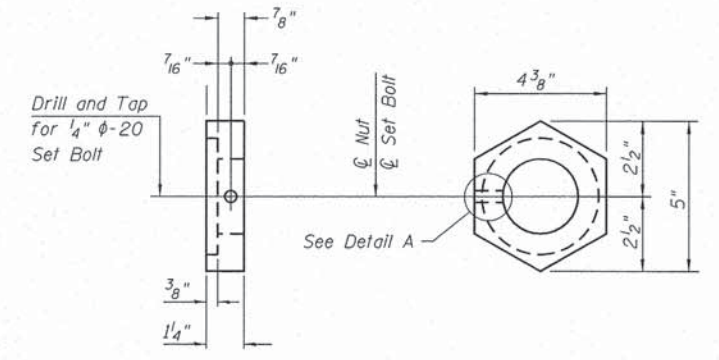
END POST PLATE

(16 Required - 4 Per Joint - U₁ & U₈)

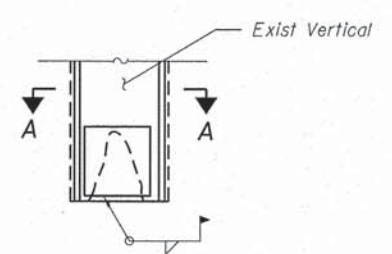


BEARING PIN PLATE

(8 Required - 2 Per Bearing - L₀ & L₉)

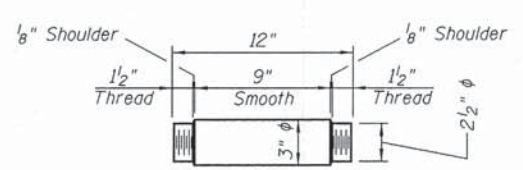


EXTERIOR NUT DETAIL



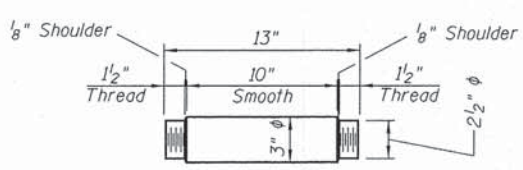
STEEL REPAIR

(At Lower Pin Connection)



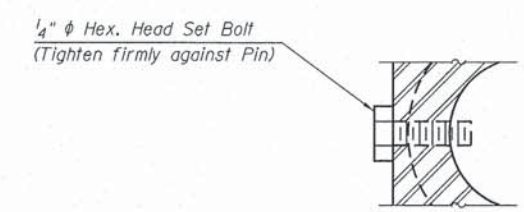
REPLACEMENT PIN AT BEARING, L₁ & L₈

(8 Req'd - L₀, L₁, L₈, & L₉)



REPLACEMENT PIN TOP END POST

(4 Req'd - U₁ & U₈)



DETAIL A

(Set Bolts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232)

Notes

1. Steel for Pin Plates shall conform to AASHTO M270, Grade 50W.
2. Bolts for Pin Plates shall conform to ASTM A325, Type 3.
3. Pins shall conform to ASTM A276, UNS 21800 (Nitronic 60 or equal), 12 threads per inch.
4. Pins and Pin Plates shall conform to the minimum Charpy V-notch toughness of 25 ft-lbs at 40 degrees F.
5. Pin Nuts shall be ASTM A76, Grade 12L14, Minimum Yield of 36 ksi. Tighten nuts to bring into firm contact with outside steel, back off nut 1/4 turn, and tighten set screw.
6. Pin Plates, pins, nuts, bolts, and associated hardware shall be included in FURNISHING & ERECTING STRUCTURAL STEEL.
7. Removal of existing rivets shall be included in RIVET REMOVAL & REPLACEMENT.
8. Removal of existing steel pins and associated plates and hardware shall be included in STRUCTURAL STEEL REMOVAL.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Furnishing & Erecting Structural Steel	Pound	1,540
Structural Steel Removal	Pound	750
Rivet Removal & Replacement	Each	216
Structural Steel Repair	Pound	100

FILE NAME = S:\Projects\2012 JOBS\12-16-518011 MAG Newton Bike Path\CAD\CADD Sheets\0403084-xxxx-010-Pin&PlateDetail.dgn
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 PLOT DRIVER = PLOTDRVS\$



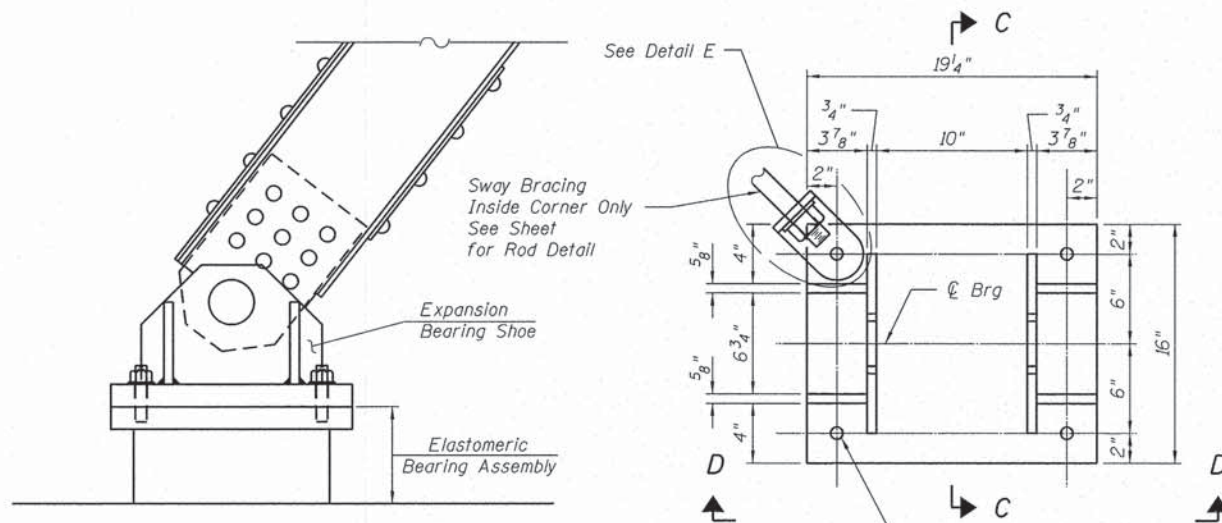
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PLOT DATE = 4/11/2013		

STATE OF ILLINOIS
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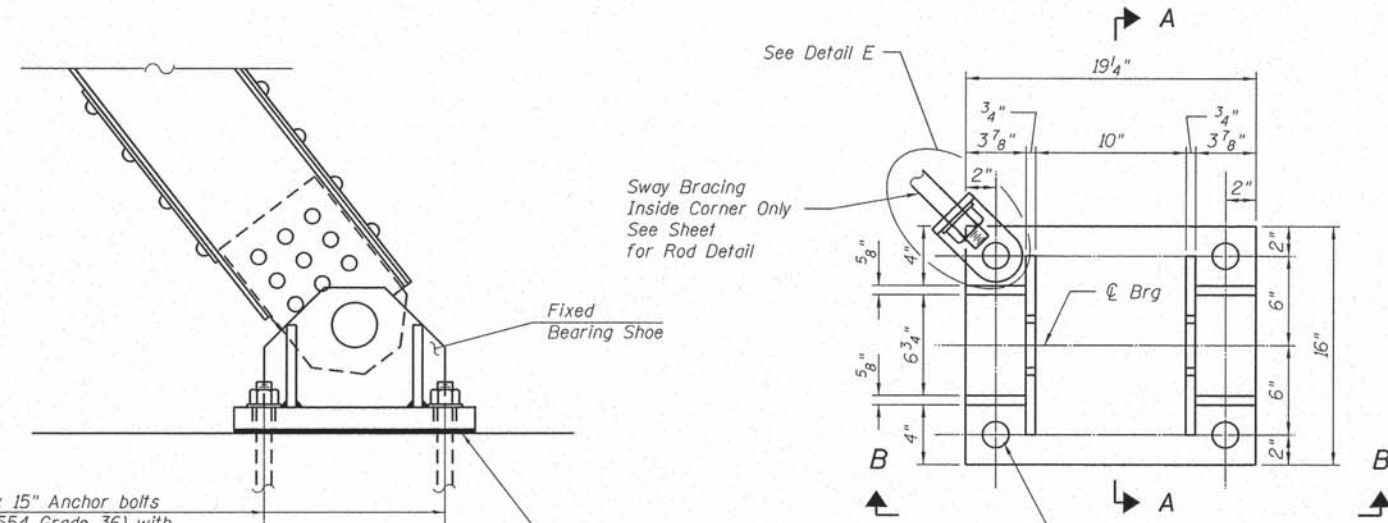
PIN & PIN PLATE DETAILS
STRUCTURE NO. 040-3084

SHEET NO. 10 OF 16 SHEETS

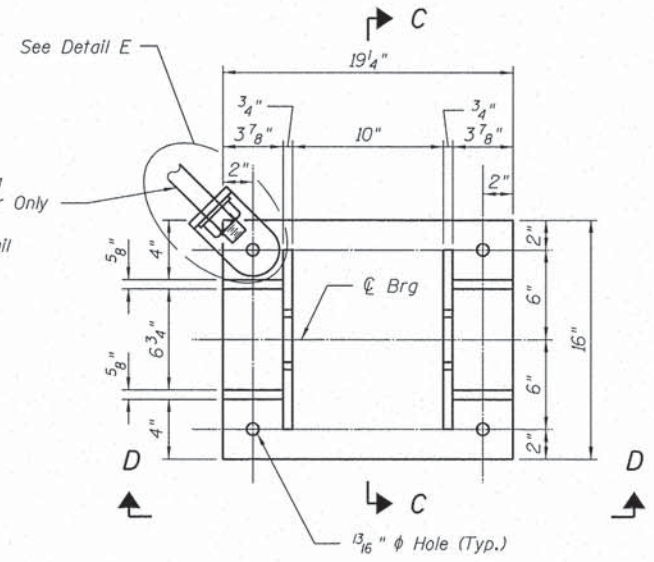
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
164	10-00045-00-BT	JASPER	40	25
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



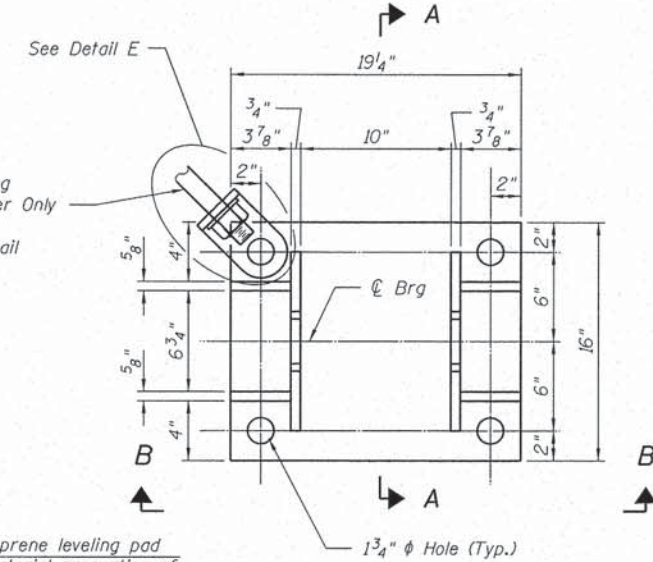
ELEVATION AT SOUTH ABUT.
(Expansion Bearing)



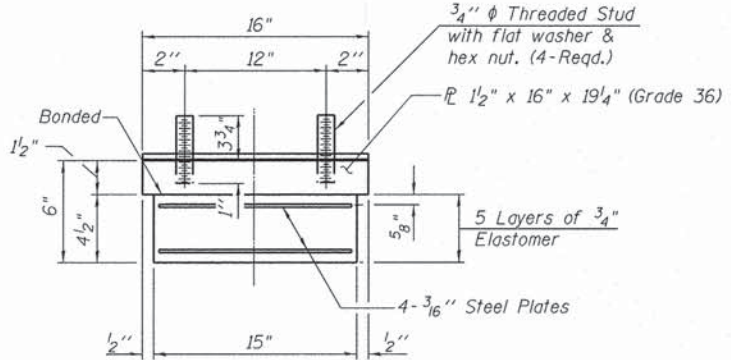
ELEVATION AT NORTH ABUT.
(Fixed Bearing)



PLAN
(Exp. Brg Shoe)

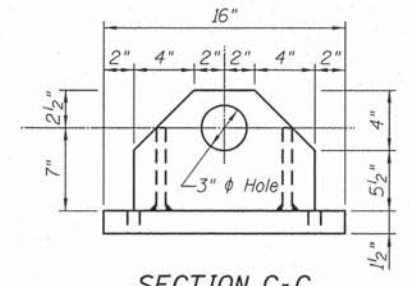


PLAN
(Fixed Brg Shoe)

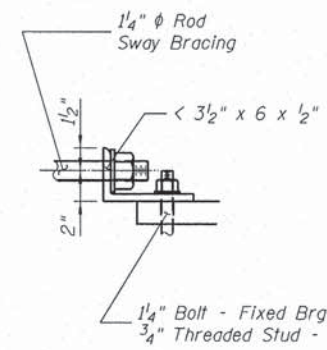


ELASTOMERIC BEARING ASSEMBLY, TYPE 1

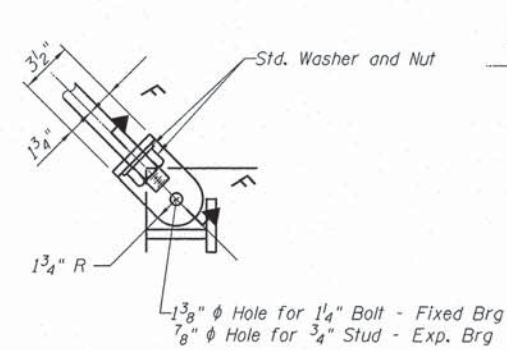
Note:
Shim plates shall not be placed under Bearing Assembly.



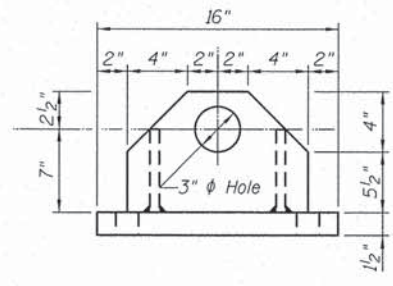
SECTION C-C
(Exp. Brg Shoe)



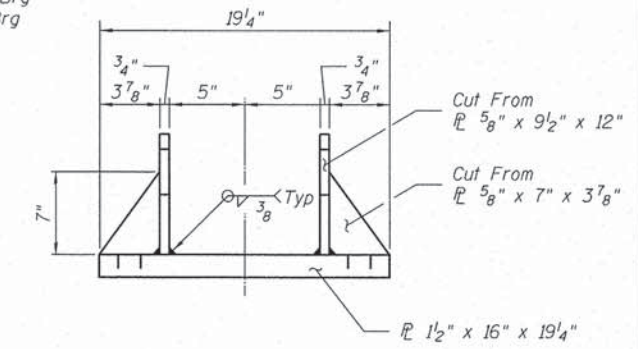
SECTION F-F



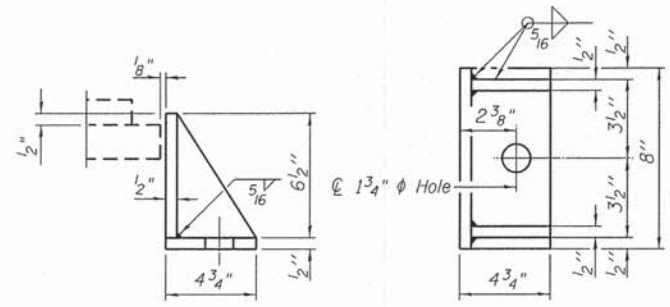
DETAIL E



SECTION A-A
(Fixed Brg Shoe)

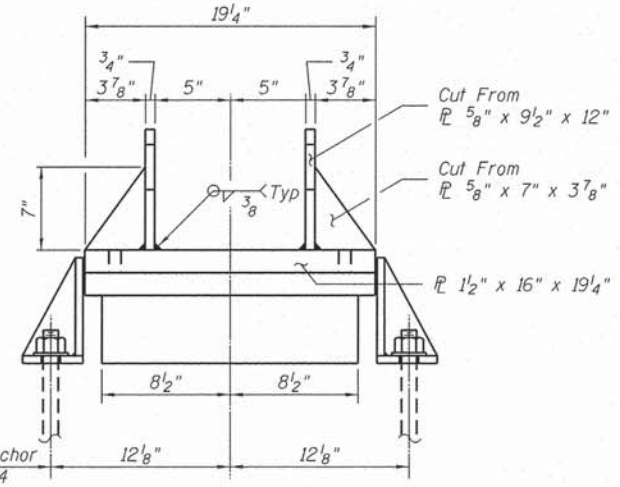


SECTION B-B
(Fixed Brg)



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



SECTION D-D
(Exp. Brg)

1 1/2 inch x 16 inch x 19 1/4 inch Anchor bolts (ASTM F1554 Grade 36) with 2 3/4 inch x 2 3/4 inch x 5/16 inch washer under nut

Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Side retainers, shims and other steel members required for the bearing assembly shall be included in the cost of STRUCTURAL STEEL.
Fixed Bearings shall not be paid for separately but shall be included in the cost of STRUCTURAL STEEL.
Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type 1	Each	2
Anchor Bolts 1 1/2"	Each	12
Structural Steel	Lbs	1250
Steel Removal	Lbs	800

FILE NAME = S:\Projects\2012 Jobs\12-16-2011 M&G Necton Bike Path\CAD\CADD Sheets\040-3084-xxxx-011-BearingDetail.dgn
 MODEL = BMDL5
 PLOT DRIVER = PLOTDRVS

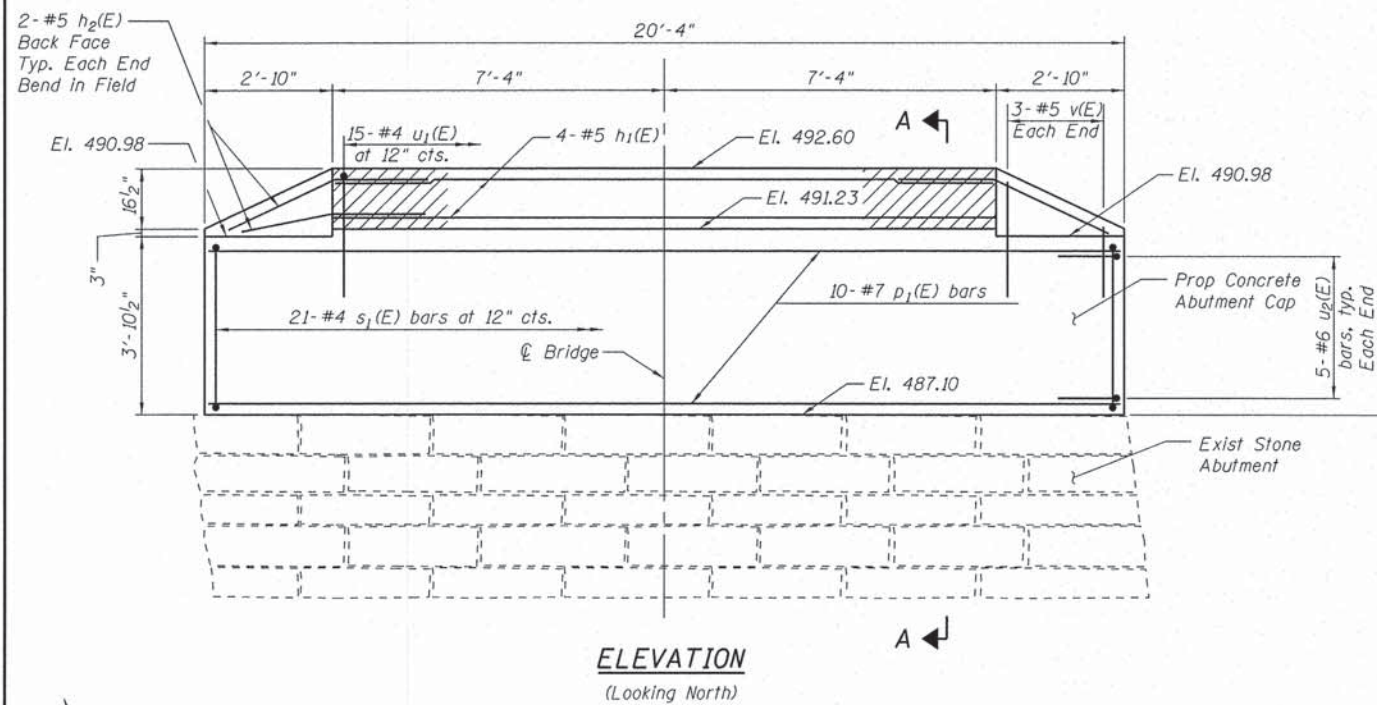


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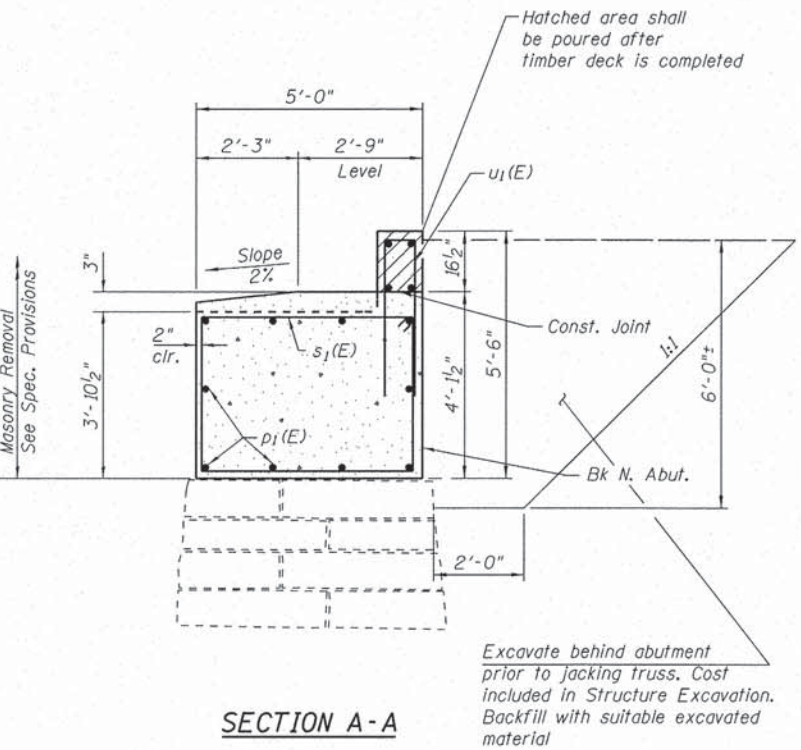
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
STRUCTURE NO. 040-3084
SHEET NO. 11 OF 16 SHEETS

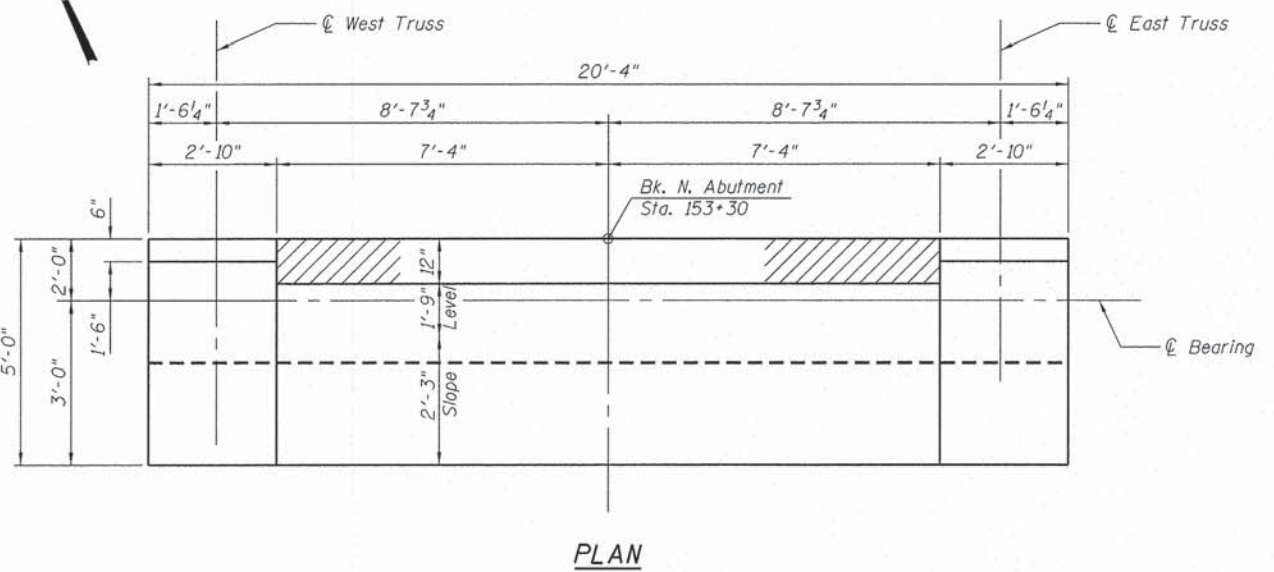
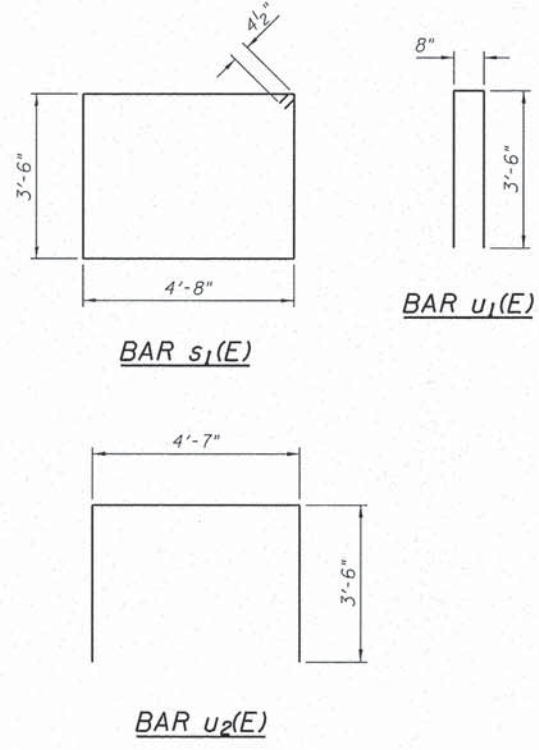
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CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



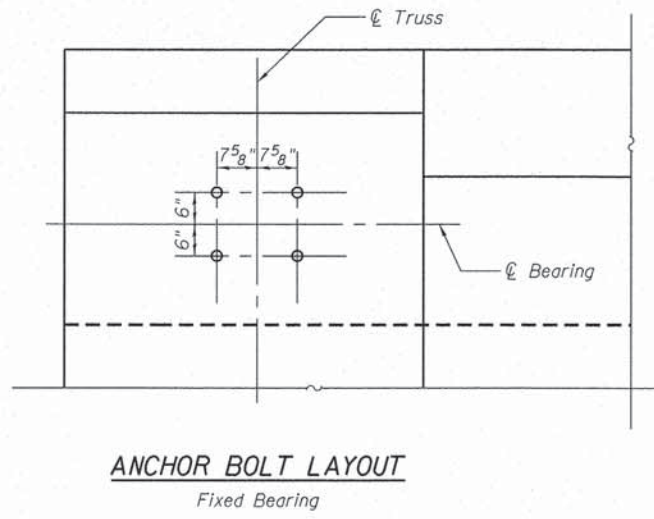
ELEVATION
(Looking North)



SECTION A-A



PLAN



ANCHOR BOLT LAYOUT
Fixed Bearing

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	4	#5	14'-0"	—
h2(E)	4	#5	6'-0"	—
p1(E)	10	#7	20'-0"	—
s1(E)	21	#4	17'-5"	□
u1(E)	15	#4	7'-8"	U
u2(E)	10	#6	11'-7"	U
v(E)	6	#5	4'-3"	—
Structure Excavation		Cu. Yd.	28	
Concrete Structures		Cu. Yd.	16.6	
Reinforcement Bars, Epoxy Coated		Pound	1,010	
Masonry Removal		Cu. Yd.	41	
Masonry Cleaning & Tuckpointing		Sq. Yd.	44.5	

FILE NAME = S:\P\Projects\2012\JOBS\12-06-510801\MG Newson Bike Path\CAD\CADD Sheets\0403084-xxxx-012-NorthAbutmentPlan.dgn
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 PLOT DRIVER = PLOTDRVS\$

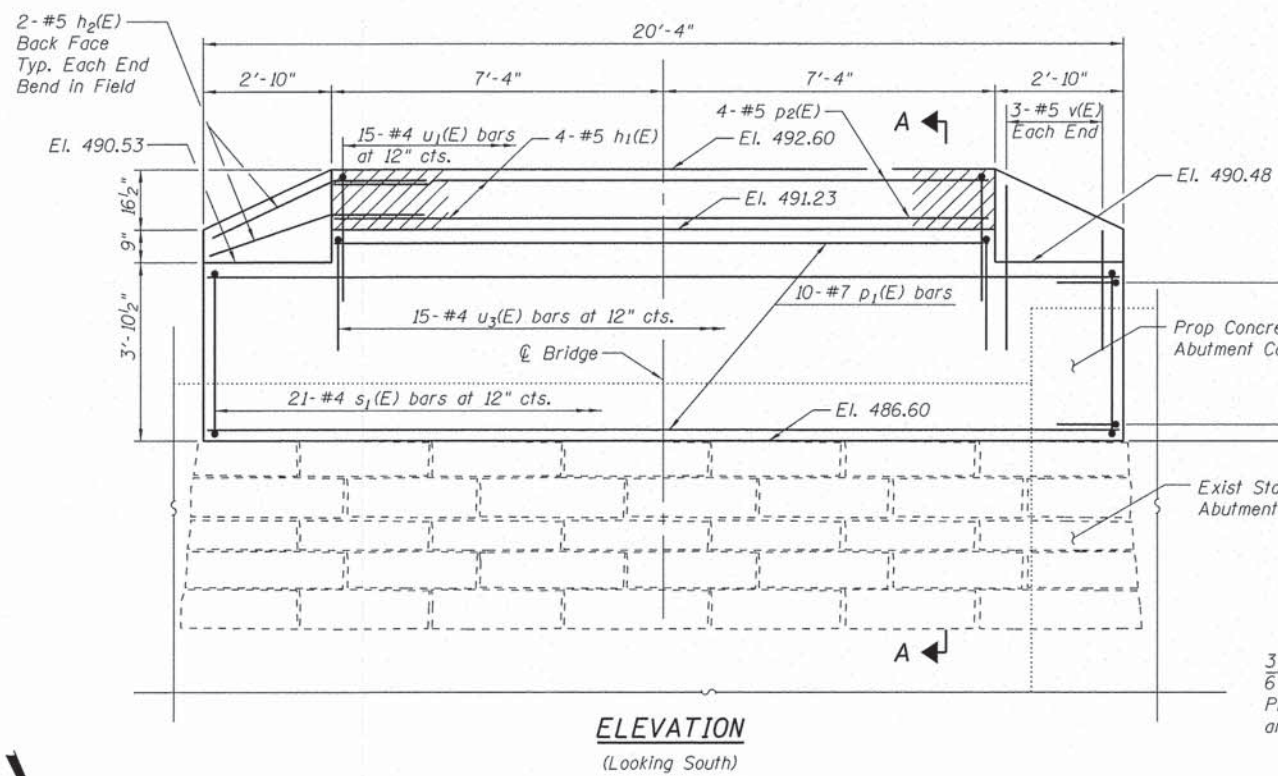


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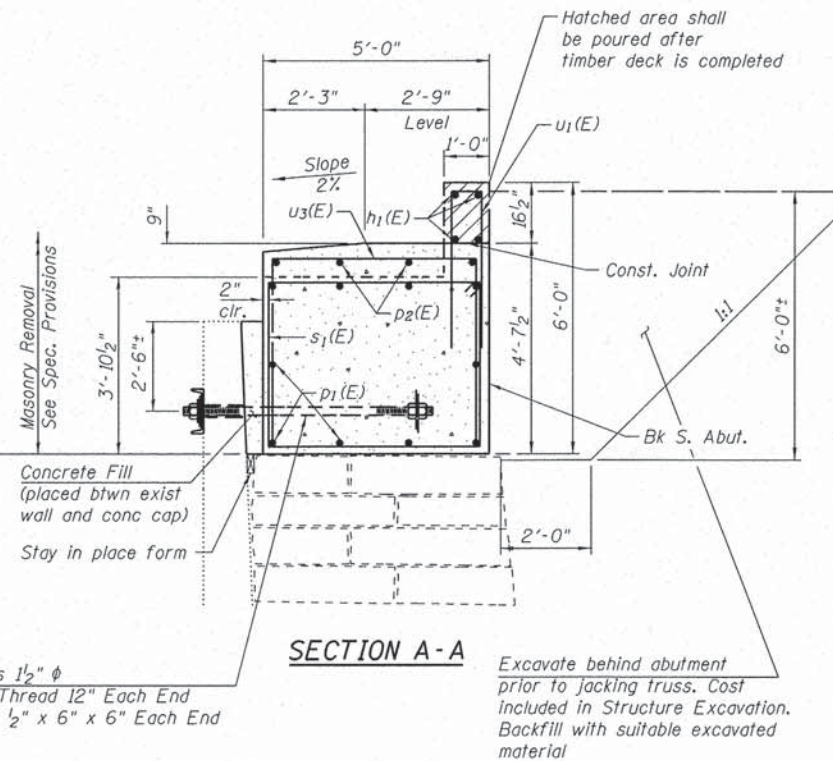
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT DETAILS
STRUCTURE NO. 040-3084
SHEET NO. 12 OF 16 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
164	10-00045-00-BT	JASPER	76	27
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



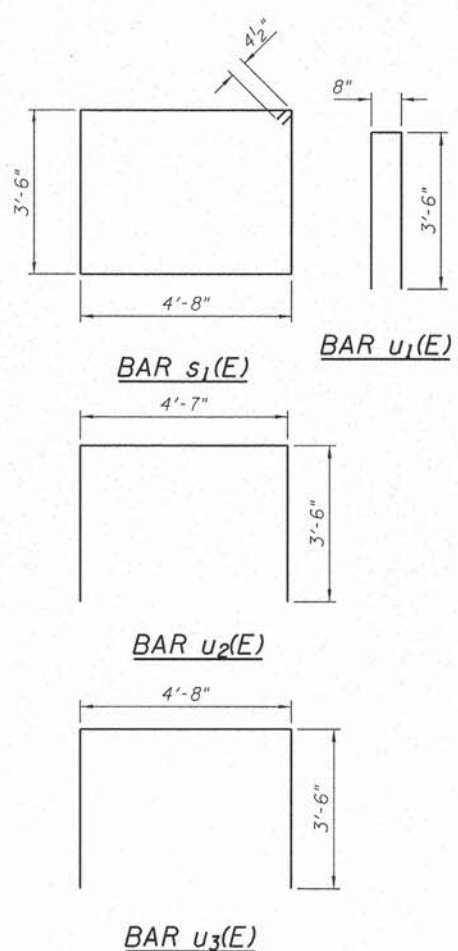
ELEVATION
(Looking South)



SECTION A-A

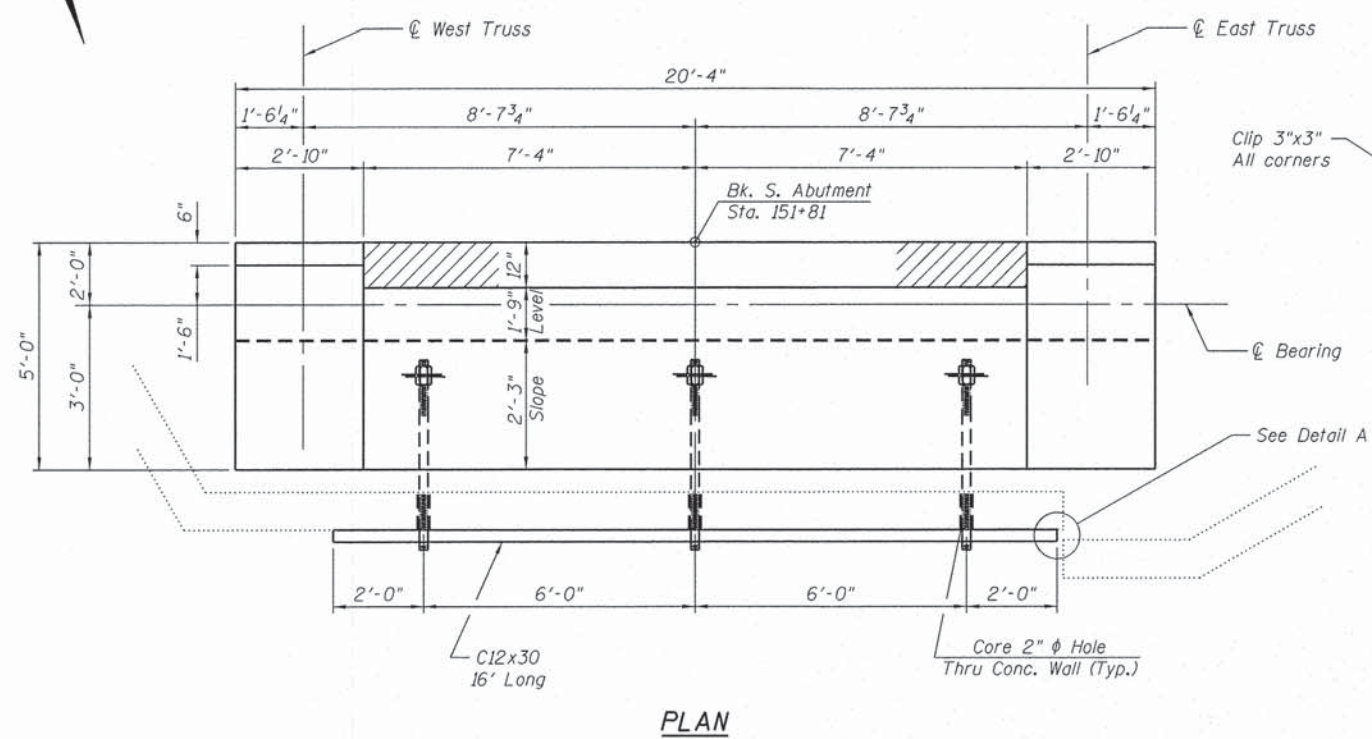
3 - Tie Rods 1 1/2" φ
6'-0" Long, Thread 12" Each End
Plate Washer 1/2" x 6" x 6" Each End
and 3 Nuts

Excavate behind abutment prior to jacking truss. Cost included in Structure Excavation. Backfill with suitable excavated material

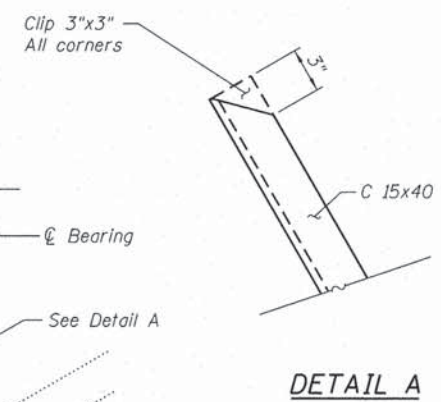


Notes

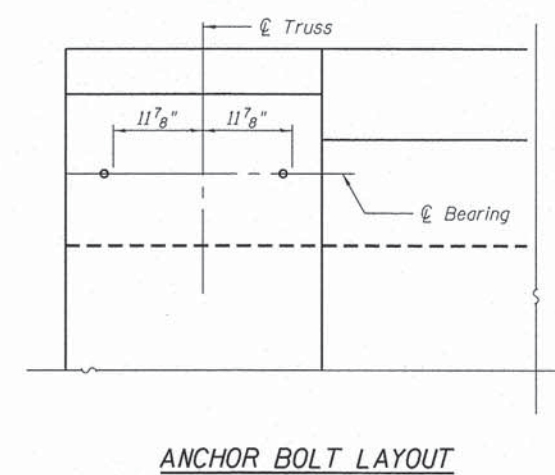
- Channels, plates, threaded tie-rods, and associated hardware shall conform to AASHTO M270, Grade 36, hot-dip galvanized.
- Coring holes in concrete wall will not be paid for separately, but shall be included in the cost of FURNISHING & ERECTING STRUCTURAL STEEL.



PLAN



DETAIL A



ANCHOR BOLT LAYOUT

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₁ (E)	4	#5	14'-0"	—
h ₂ (E)	4	#5	6'-0"	—
p ₁ (E)	10	#7	20'-0"	—
p ₂ (E)	4	#6	20'-0"	—
s ₁ (E)	21	#4	17'-5"	□
u ₁ (E)	15	#4	7'-8"	U
u ₂ (E)	10	#6	11'-7"	U
u ₃ (E)	15	#4	11'-8"	U
v(E)	6	#5	4'-3"	—
Structure Excavation		Cu. Yd.	23	
Concrete Structures		Cu. Yd.	18.6	
Reinforcement Bars, Epoxy Coated		Pound	1250	
Masonry Removal		Cu. Yd.	25	
Furnishing & Erecting Structural Steel		Pound	600	

FILE NAME = S:\Projects\2012\JOBS\12-95-510011 H&G Newton Bike Path\CAD\CAD000 Sheets\403084-xxxx-013-SouthAbutmentPlan.dgn
 MODEL =
 PLOT DRIVER = PLOTDRVS



USER NAME = kchepman	DESIGNED -	REVISED
FILE NAME = 0403084-xxxx-013-SouthAbutment	DRAWN -	REVISED
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PLOT DATE = 4/11/2013		

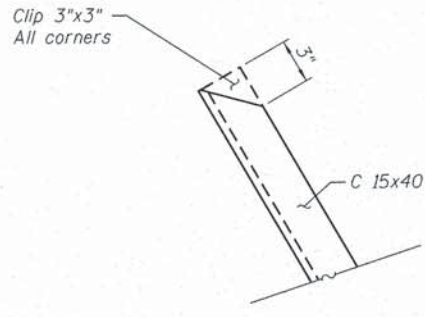
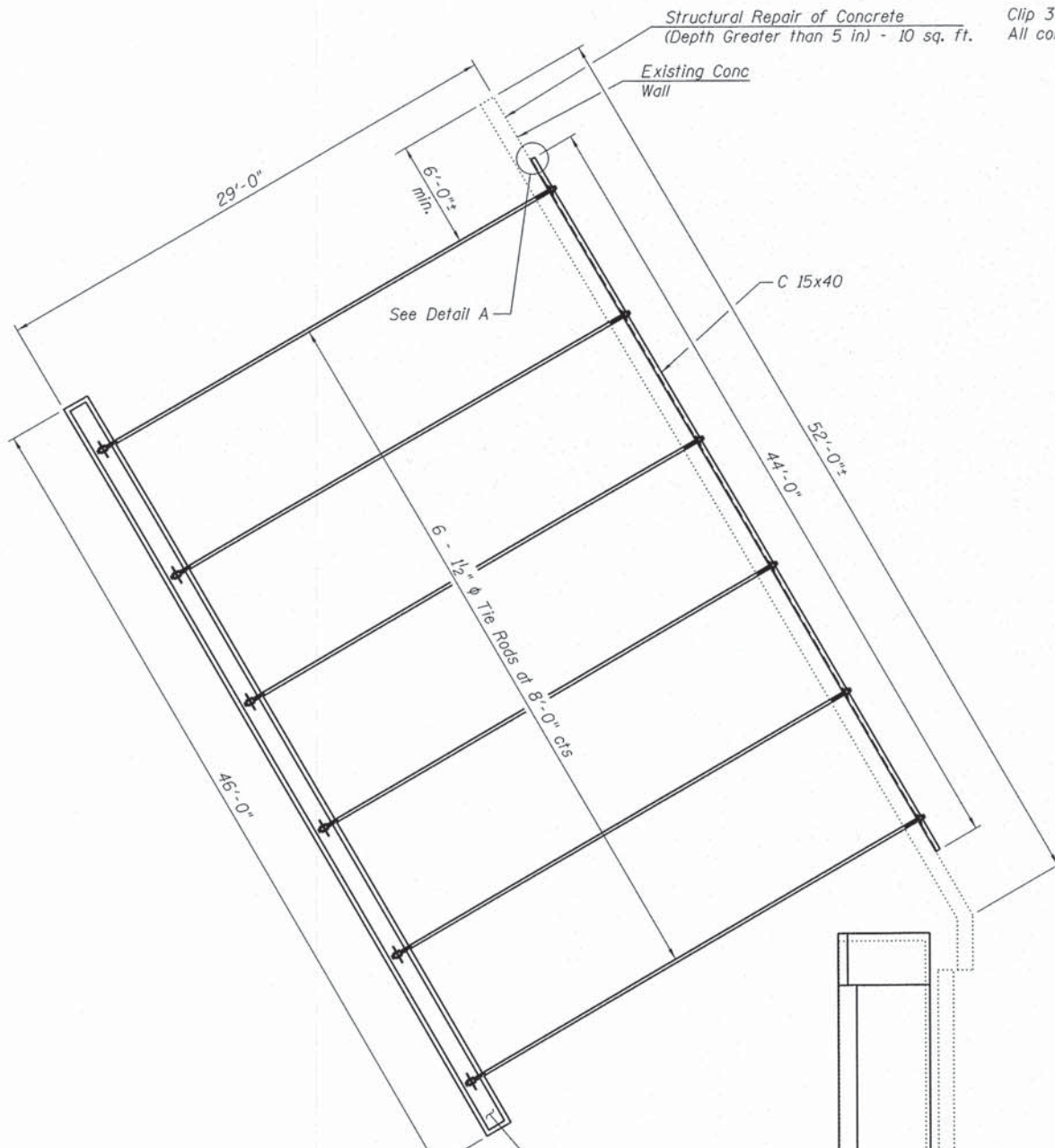
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT DETAILS
STRUCTURE NO. 040-3084**
SHEET NO. 13 OF 16 SHEETS

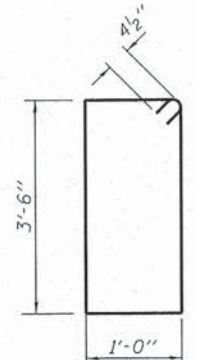
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
164	10-00045-00-BT	JASPER	76	28
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
h ₃ (E)	16	#6	24'-6"	—	
s ₂ (E)	47	#4	9'-9"	□	
Furnishing & Erecting Structural Steel				Pound	3,350
Structure Excavation				Cu. Yd.	226
Concrete Structures				Cu. Yd.	10.3
Reinforcement Bars, Epoxy Coated				Pound	900
Structural Repair of Concrete (Depth Greater than 5 in)				Sq. Ft.	10



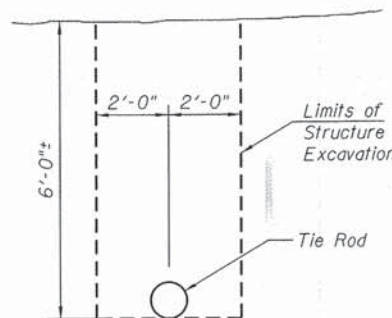
DETAIL A



BAR s(E)

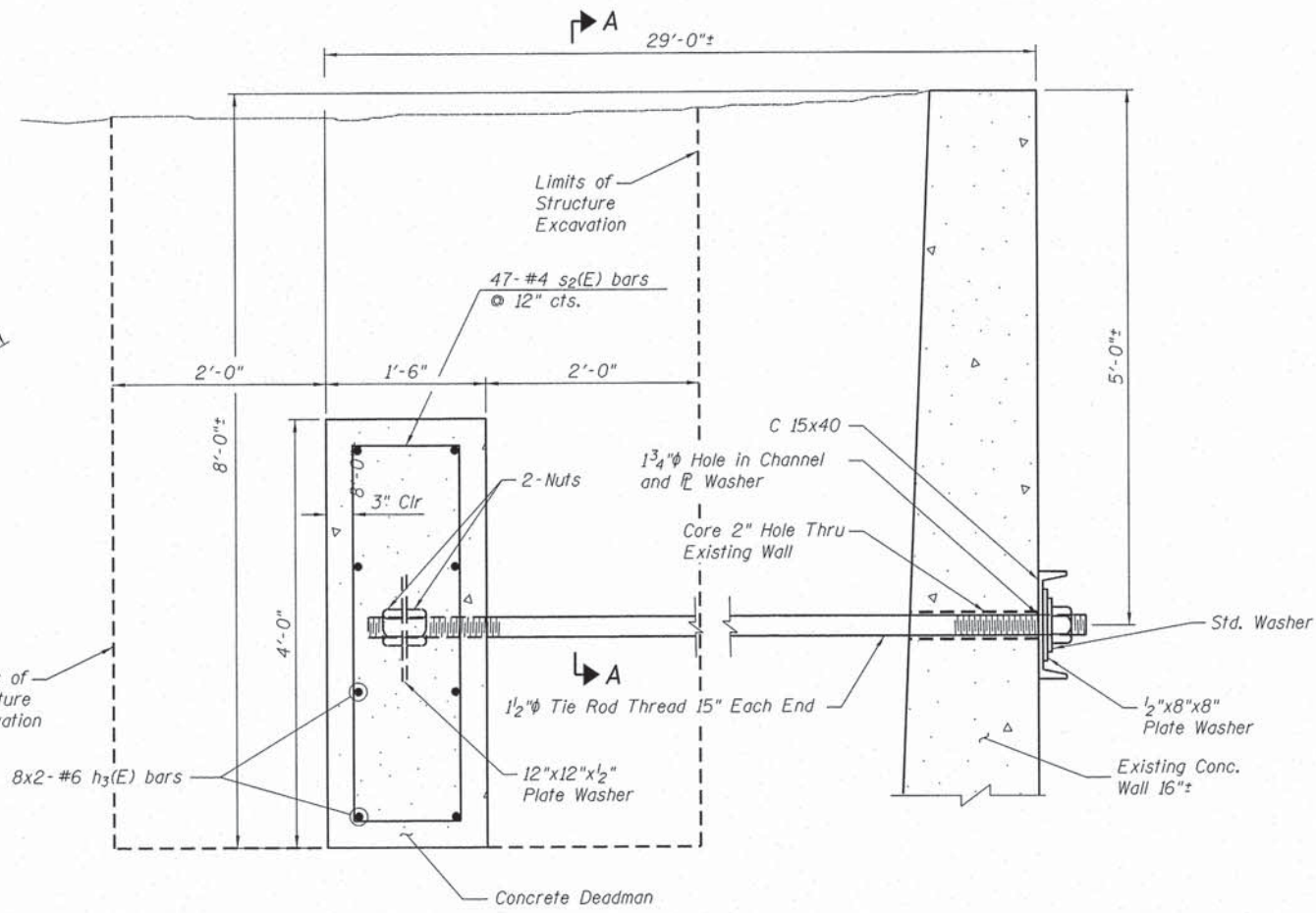
Notes

- Channels, plates, threaded tie-rods, and associated hardware shall conform to AASHTO M270, Grade 36, hot-dip galvanized.
- Excavation required for tie-rod and deadman installation shall be paid for as STRUCTURE EXCAVATION.
- Coring holes in concrete wall will not be paid for separately, but shall be included in the cost of FURNISHING & ERECTING STRUCTURAL STEEL.



SECTION A-A

DEADMAN ANCHOR PLAN VIEW



CONNECTION DETAIL AT DEADMAN

CONNECTION DETAIL AT WALL

FILE NAME = 0403084-xxxx-014-Wingwall10Detail.dgn
 PLOT DRIVER = V:\DOT_PDF_11x17.plt
 PLOT DATE = 4/11/2013



USER NAME = S.Dulekiss	DESIGNED -	REVISED
FILE NAME = 0403084-xxxx-014-Wingwall10Detail.dgn	CHECKED -	REVISED
PLOT SCALE = 20x0.0000 1' / 1"	DRAWN -	REVISED
PLOT DATE = 4/11/2013	CHECKED -	REVISED

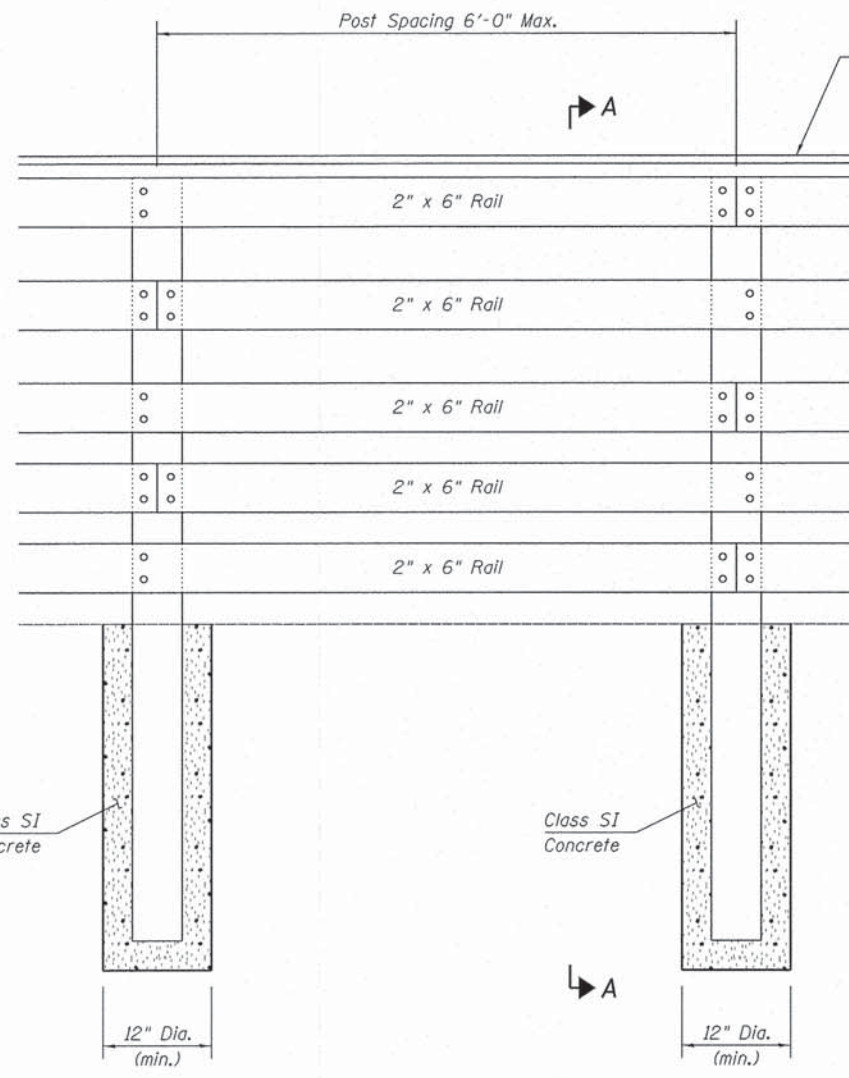
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOUTHWEST WINGWALL DETAILS
 STRUCTURE NO. 040-3084**

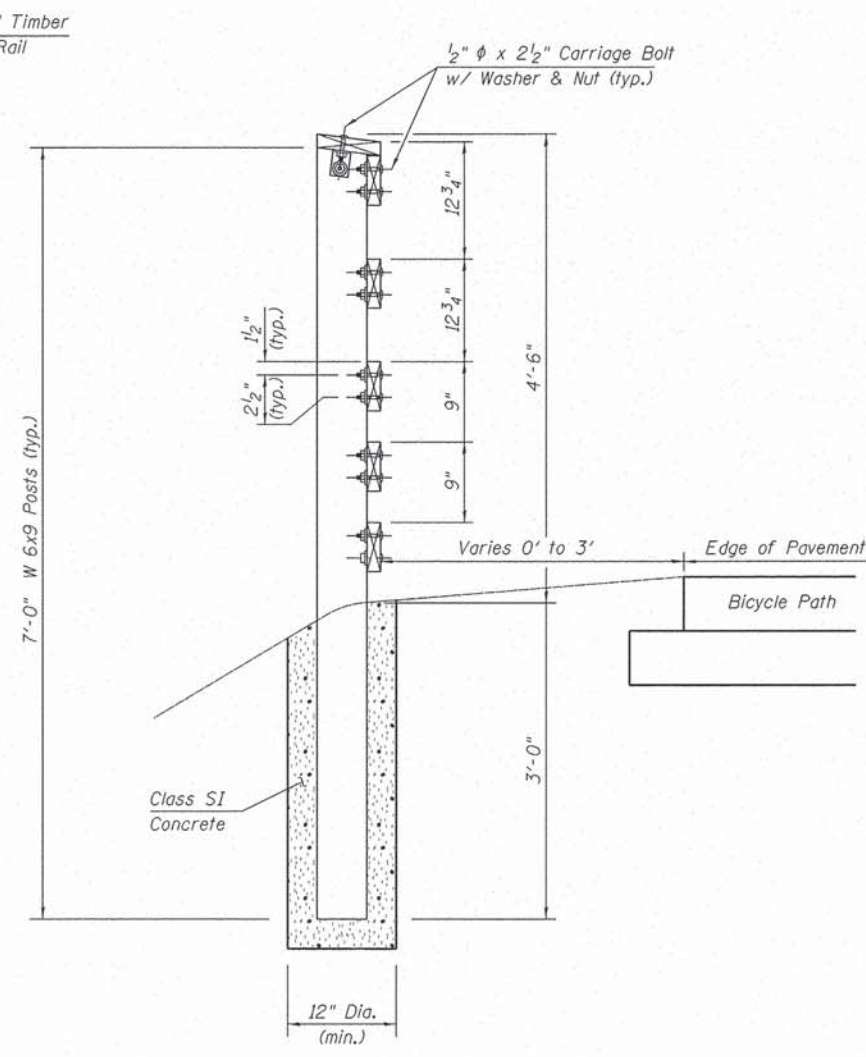
SHEET NO. 14 OF 16 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
164	10-00045-00-BT	JASPER	46	29
CONTRACT NO.				

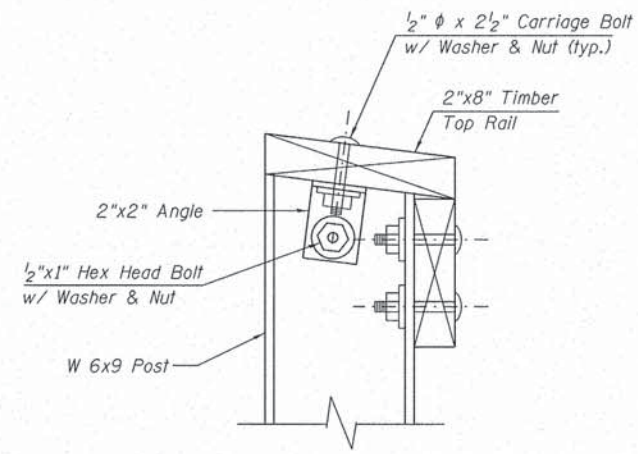
ILLINOIS FED. AID PROJECT



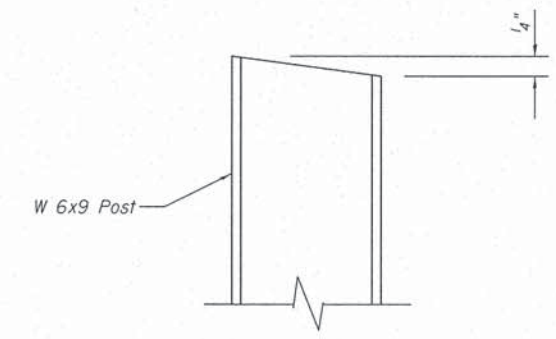
ELEVATION VIEW



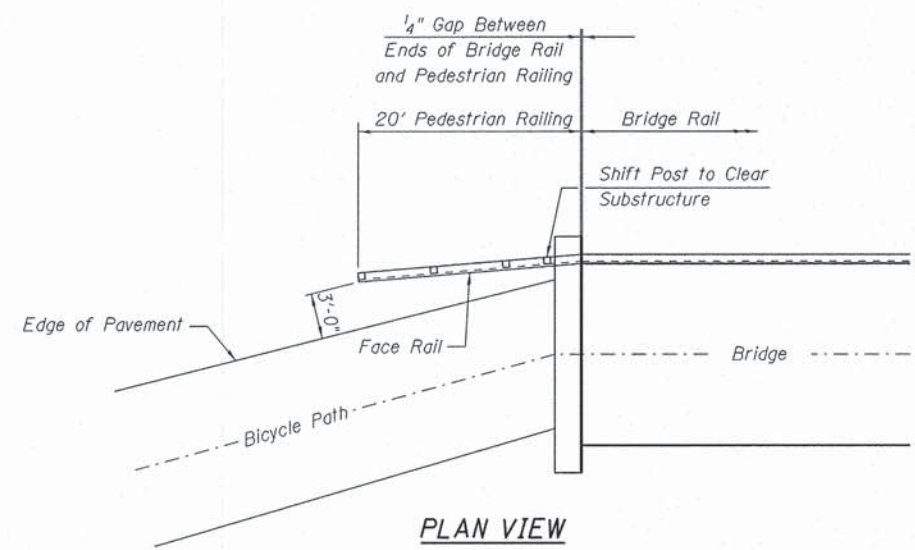
SECTION A-A



TOP RAIL CONNECTION DETAIL



TOP OF POST DETAIL



PLAN VIEW

NOTES

1. Steel posts shall be as specified in Article 1006.23
2. All hardware shall be as specified in Article 1006.25
3. Timber Rails shall be Treated Southern Pine as specified in Article 1007.03
4. Stagger alternating Butt Ends on Face Rail and Top Rail, Center all Butt End Joints on the Posts.
5. Cut ends of Top Rail and Face Rails to match Bridge Rail.
6. Steel Posts, Timber Rails, Concrete for Posts, and hardware shall be included in PEDESTRIAN RAILING.

BILL OF MATERIAL

Item	Unit	Quantity
Pedestrian Railing	Foot	80

FILE NAME = 0403084-xxxx-015-Bridge Approach Railing.dgn
 MODEL = Default
 PLOT DRIVER = VB_PLOT.PDF, 11x17.plt, etc.



USER NAME = S.Dulakis	DESIGNED -	REVISED
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PLOT SCALE = 20x0.0000 '1' / 1"	CHECKED -	REVISED
PLOT DATE = 4/11/2013		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH RAILING
STRUCTURE NO. 040-3084
 SHEET NO. 15 OF 16 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
164	10-00045-00-BT	JASPER	46	30
CONTRACT NO.			ILLINOIS FED. AID PROJECT	

B-1

Station 153+40, 0' Rf
Ground Surface Elev. = 490.0±

BRIDGE FOUNDATION SOIL BORING LOG

MET Midwest Engineering and Testing, Inc.

Route: City of Newton Bike Trail over Embarras River
Section: 10-00045-00-BT
County: Jasper
Structure No. Not Available
Station: 10 ft. north of north abutment
Offset: At Centerline

Boring: B-1
Page: Page 1 of 1
Date of Boring: February 13, 2012
Drilled By: Zach Wilcoxon
Checked By: Daniel E. Tappendorf, P.E.
MET Project No: 23016

Surface Water Depth: - 21 ft. of deck Ground Water Elevation: when drilling: 20 ft. depth at completion: Cave at 10 ft.				Surface Water Depth: - 21 ft. of deck Ground Water Elevation: when drilling: 20 ft. depth at completion: Cave at 15 ft.			
DEPTH (ft.)	BLOW S (6")	Qu (tsf)	MC (%)	DEPTH (ft.)	BLOW S (6")	Qu (tsf)	MC (%)
Ground Surface Elevation: -				Ground Surface Elevation: -			
Dark brown clayey SILT (OL) Topsoil				Black weathered SHALE			
			16	75/2"		25	
Auger Refusal at 28 ft.				Auger Refusal at 28 ft.			
Brown sandy CLAY (SC)				Brown silty CLAY (CL)			
2	1	-	17	30			
2	2						
Brown clayey SAND (SC)				Brown sandy CLAY (SC)			
2	1	-	14	35			
2	2						
Brown fine to medium SAND (SP)				Brown silty CLAY (CL)			
2	1	-	15	40			
2	2						
Brown clayey SAND (SC)				Brown sandy CLAY (SC)			
2	1	-	10	45			
2	2						
Brown fine to medium SAND (SP)				Gray clayey SAND (SC)			
2	1	-	19	50			
2	2						
Gray clayey SAND (SC)				Dark gray weathered SHALE			
0	1	-	24	23	31	4.5 P	12
0	2			50/4"			
Gray fine to medium SAND (SP)							
2	5	-	22				
2	5						

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)
Type Failure Qu test
B-Bulge
S-Shear
P-Penetrometer

B-2

Station 151+71, 5' Rf
Ground Surface Elev. = 491.0±

BRIDGE FOUNDATION SOIL BORING LOG

MET Midwest Engineering and Testing, Inc.

Route: City of Newton Bike Trail over Embarras River
Section: 10-00045-00-BT
County: Jasper
Structure No. Not Available
Station: 10 ft. south of south abutment
Offset: 5 ft. east of centerline

Boring: B-2
Page: Page 1 of 1
Date of Boring: February 13, 2012
Drilled By: Zach Wilcoxon
Checked By: Daniel E. Tappendorf
MET Project No: 23016

Surface Water Depth: - 21 ft. of deck Ground Water Elevation: when drilling: 20 ft. depth at completion: Cave at 15 ft.				Surface Water Depth: - 21 ft. of deck Ground Water Elevation: when drilling: 20 ft. depth at completion: Cave at 15 ft.			
DEPTH (ft.)	BLOW S (6")	Qu (tsf)	MC (%)	DEPTH (ft.)	BLOW S (6")	Qu (tsf)	MC (%)
Ground Surface Elevation: -				Ground Surface Elevation: -			
Dark gray weathered SHALE				Dark gray weathered SHALE			
			13	50/1"			16
Auger Refusal at 28 ft.				Auger Refusal at 28 ft.			
Brown silty CLAY (CL)				Brown sandy CLAY (SC)			
2	1	-	11	30			
2	2						
Brown sandy CLAY (SC)				Brown silty CLAY (CL)			
3	2	3.0 P	12	35			
3	1						
Brown sandy CLAY (SC)				Brown silty CLAY (CL)			
2	2	1.4 B	21	40			
2	4						
Brown sandy CLAY (SC)				Brown sandy CLAY (SC)			
2	2	1.7 B	20	45			
5	3	2.0 P	19				
3	3						
Brown sandy CLAY (SC)				Brown sandy CLAY (SC)			
2	1	1.1 B	23	50			
2	2						
Gray clayey SAND (SC)				Dark gray weathered SHALE			
3	2	-	19	10	25	4.5 P	12
5	5			53			
Dark gray weathered SHALE				Dark gray weathered SHALE			
10	25	4.5 P	12	50/5"		4.5 P	15
5	5						

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)
Type Failure Qu test
B-Bulge
S-Shear
P-Penetrometer

FILE NAME = S:\Projects\2012 JOBS\12-06-508011 MAG Newton Bike Path\CD\ADD Sheets\0403084-xxxx-016-Borings.dgn
MODEL = BMODEL
PLOT DRIVER = PLOTDRIVER



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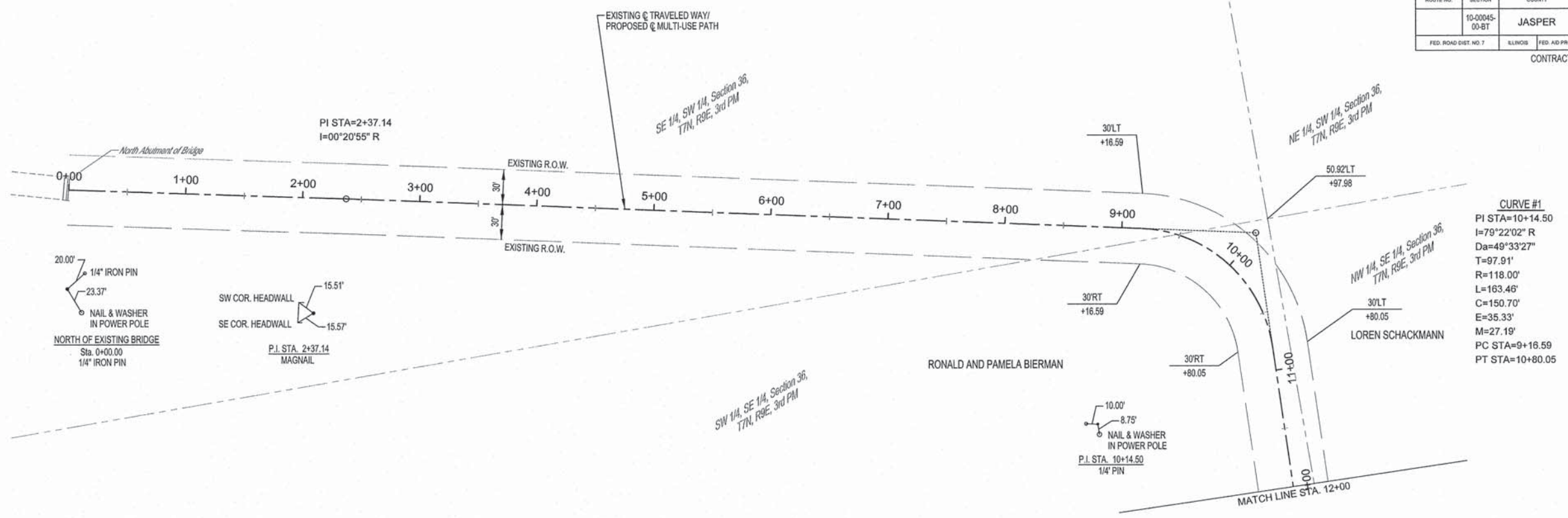
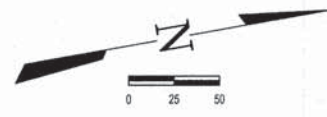
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 040-3084

SHEET NO. 16 OF 16 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
164	10-00045-00-BT	JASPER	46	31
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

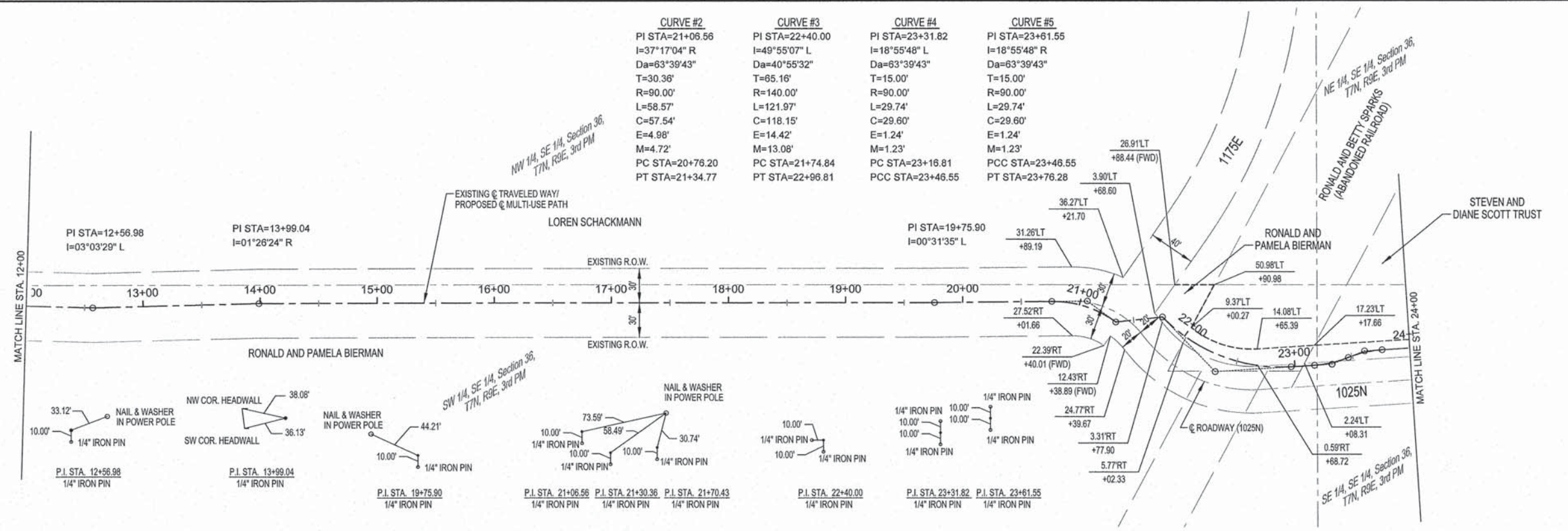
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00045-00-BT	JASPER	46	32
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT:	
CONTRACT #95708				



CURVE #1

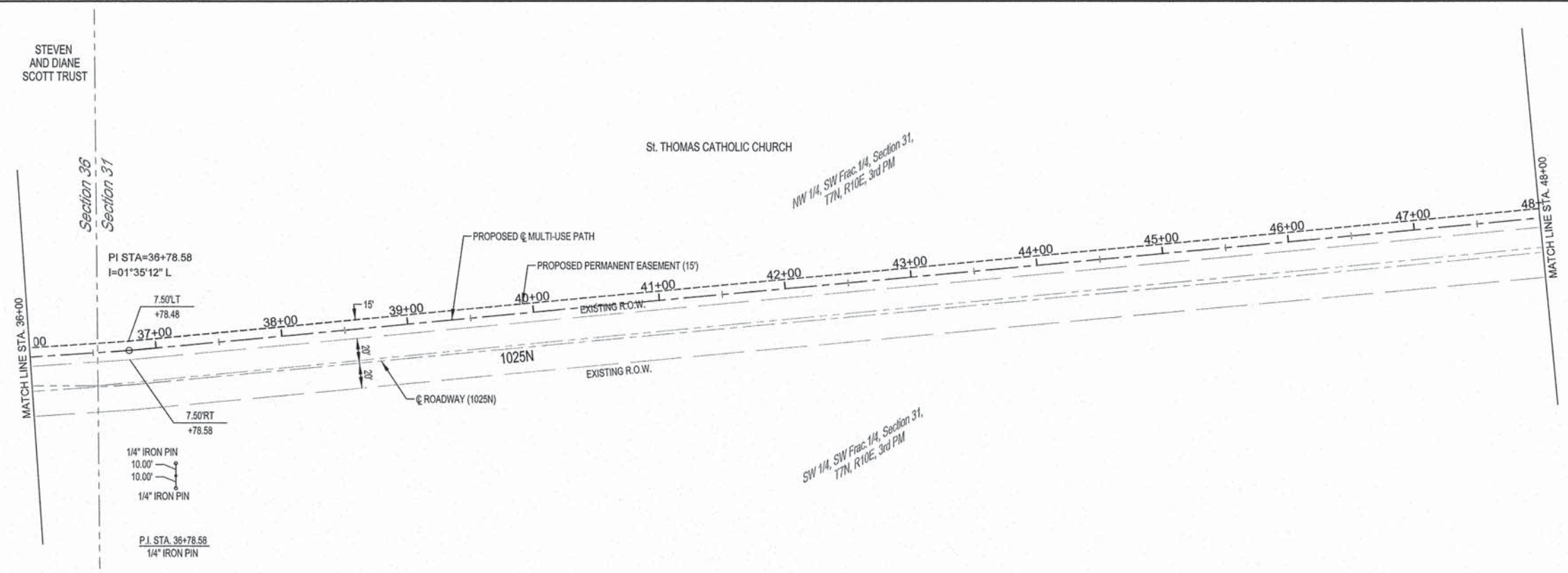
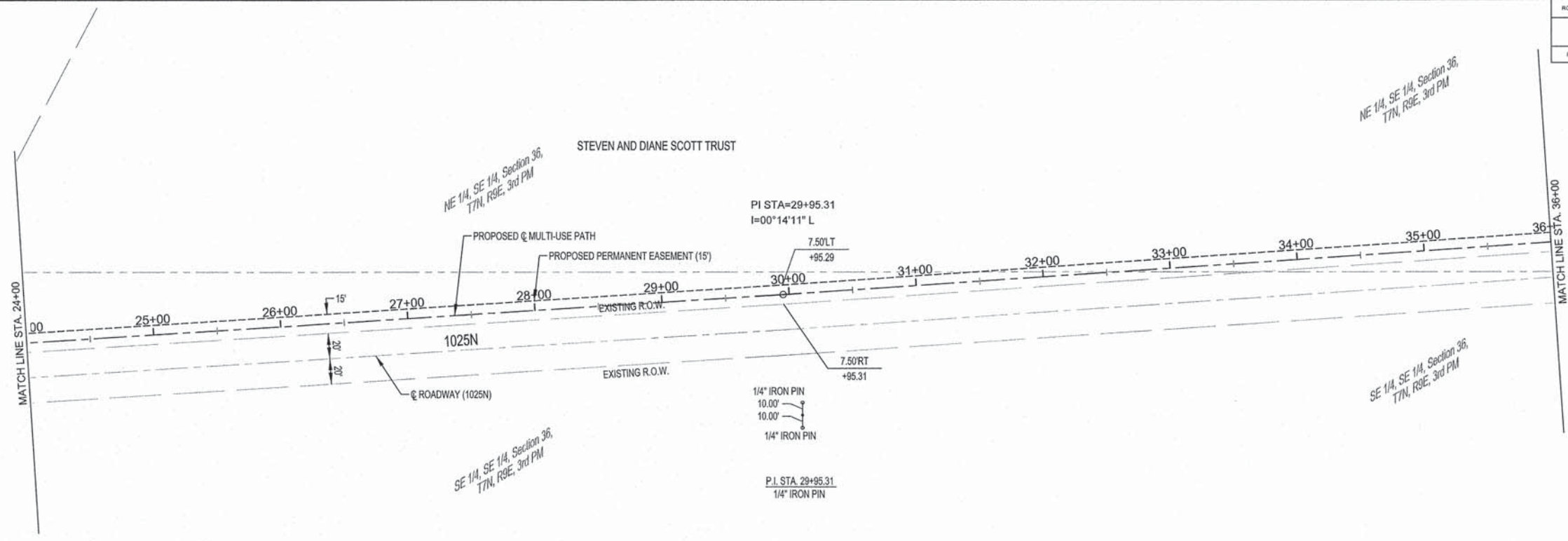
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I=79°22'02" R
Da=49°33'27"
T=97.91'
R=118.00'
L=163.46'
C=150.70'
E=35.33'
M=27.19'
PC STA=9+16.59
PT STA=10+80.05

CURVE #2	CURVE #3	CURVE #4	CURVE #5
PI STA=21+06.56	PI STA=22+40.00	PI STA=23+31.82	PI STA=23+61.55
I=37°17'04" R	I=49°55'07" L	I=18°55'48" L	I=18°55'48" R
Da=63°39'43"	Da=40°55'32"	Da=63°39'43"	Da=63°39'43"
T=30.36'	T=65.16'	T=15.00'	T=15.00'
R=90.00'	R=140.00'	R=90.00'	R=90.00'
L=58.57'	L=121.97'	L=29.74'	L=29.74'
C=57.54'	C=118.15'	C=29.60'	C=29.60'
E=4.98'	E=14.42'	E=1.24'	E=1.24'
M=4.72'	M=13.08'	M=1.23'	M=1.23'
PC STA=20+76.20	PC STA=21+74.84	PC STA=23+16.81	PCC STA=23+46.55
PT STA=21+34.77	PT STA=22+96.81	PCC STA=23+46.55	PT STA=23+76.28



	MILANO & GRUNLOH ENGINEERS, LLC	RIGHT-OF-WAY PLAN AND REFERENCE TIES EAGLE TRAIL CITY OF NEWTON SECTION 10-00045-00-BT JASPER COUNTY, ILLINOIS
	114 WEST WASHINGTON P.O. BOX 697 EFFINGHAM, ILLINOIS 62401	
	Phone: (217) 347-7282 (815) 877-2114 Fax #: (217) 343-3433	
	Web Address: www.mgenl.com Design Firm #: 184-003108	
File name: S:\DWG\1010294\dwg\ROW Plan.dwg Plot date: 04/11/13 at 07:05		F.B. 685,686,687,689,690

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-00045-00-BT	JASPER	46	33	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT: CONTRACT #95708				



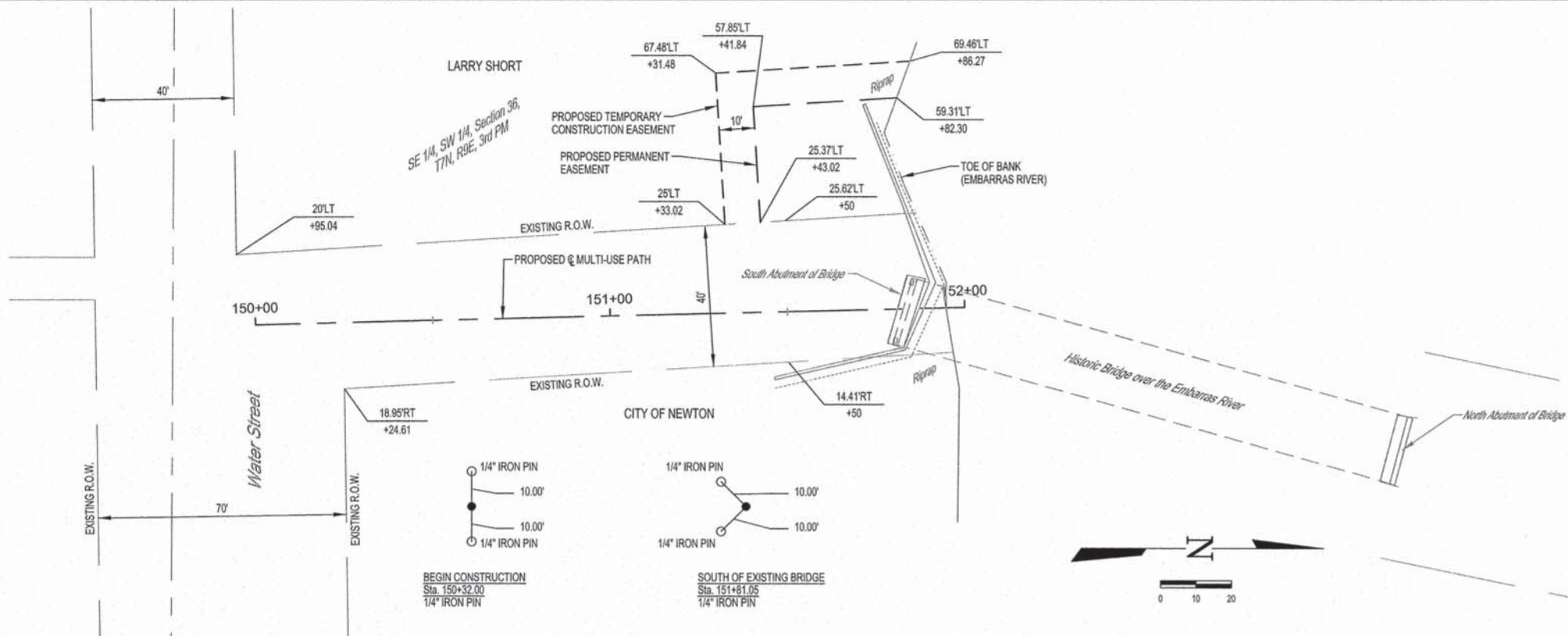
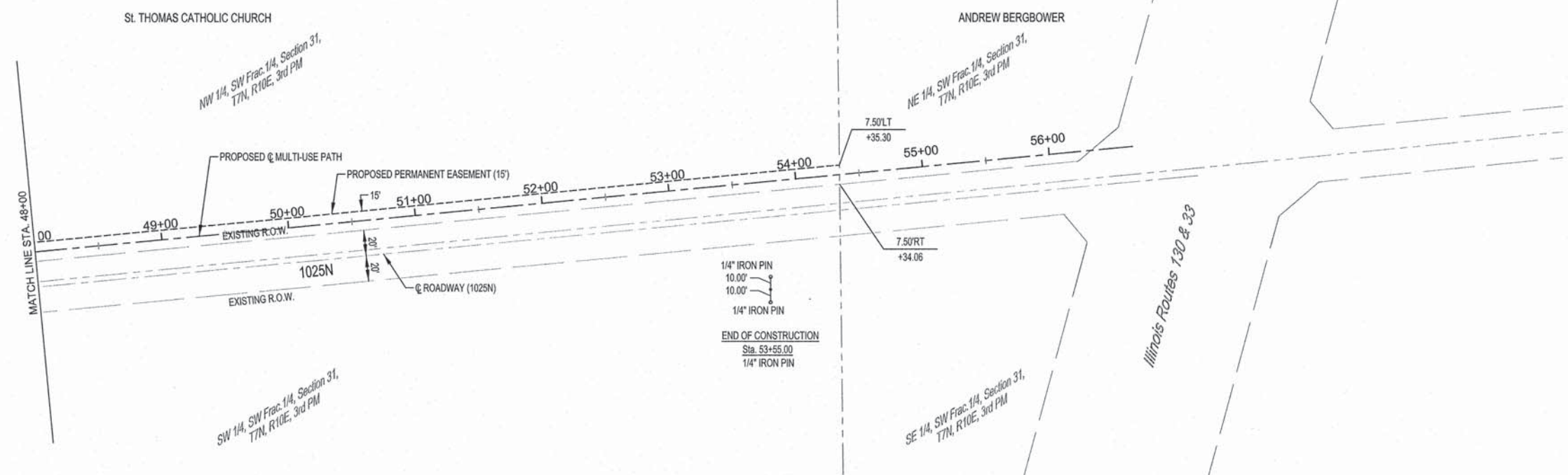
M
u
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engineering
G

MILANO & GRUNLOH ENGINEERS, LLC
114 WEST WASHINGTON
P.O. BOX 697
EFFINGHAM, ILLINOIS 62401
Phone: (217) 347-7262
(618) 677-2714
Fax #: (217) 342-3433
Web Address: www.mgenl.com
Design Firm #: 154-003108

RIGHT-OF-WAY PLAN AND
REFERENCE TIES
EAGLE TRAIL
CITY OF NEWTON
SECTION 10-00045-00-BT
JASPER COUNTY, ILLINOIS

File name: S:\DWG\10\10294\dwg\ROW Plan.dwg
Plot date: 04/11/13 at 07:05 F.B. 685,686,687,688,689

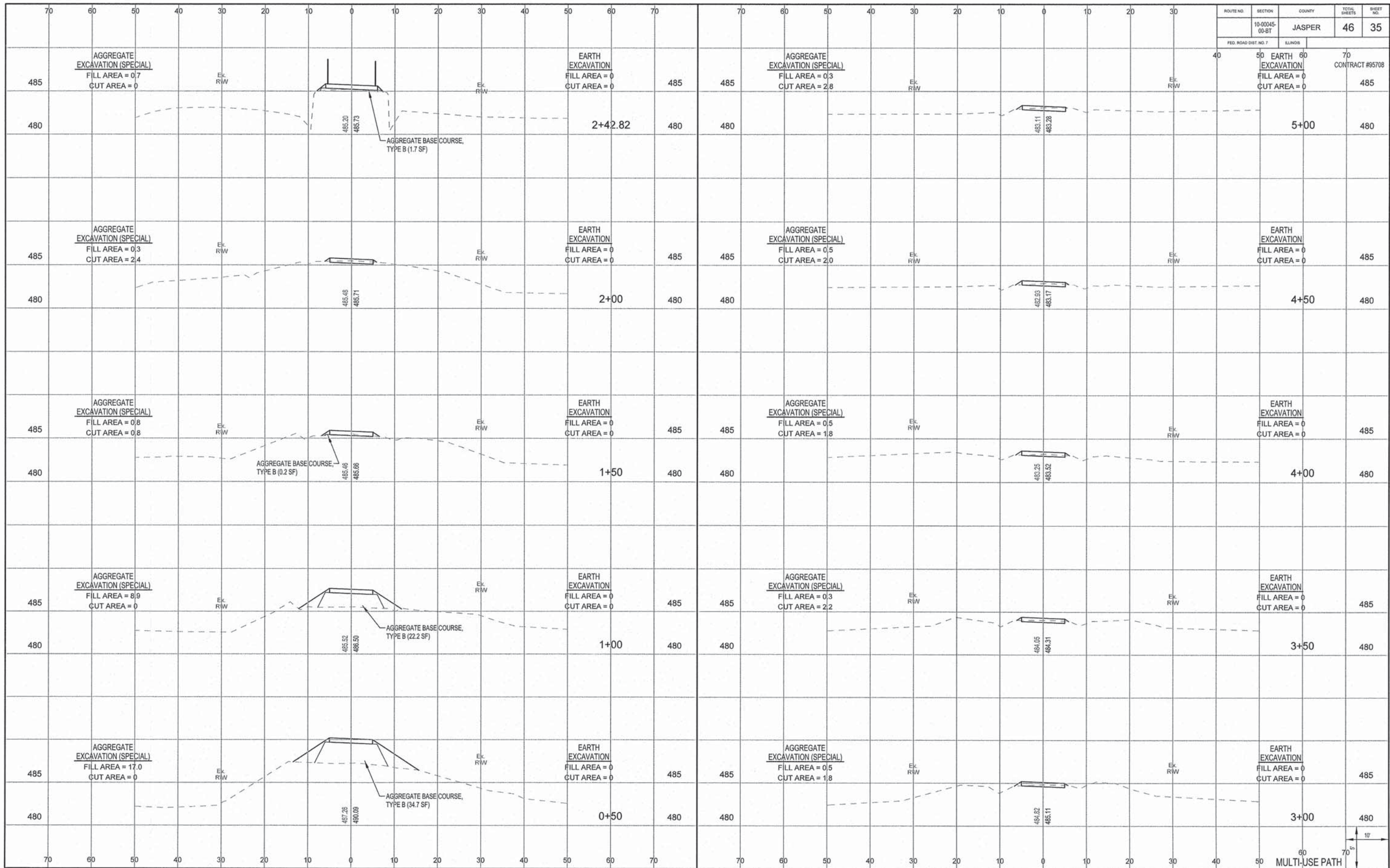
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00045-00-BT	JASPER	46	34
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		
CONTRACT #95708				



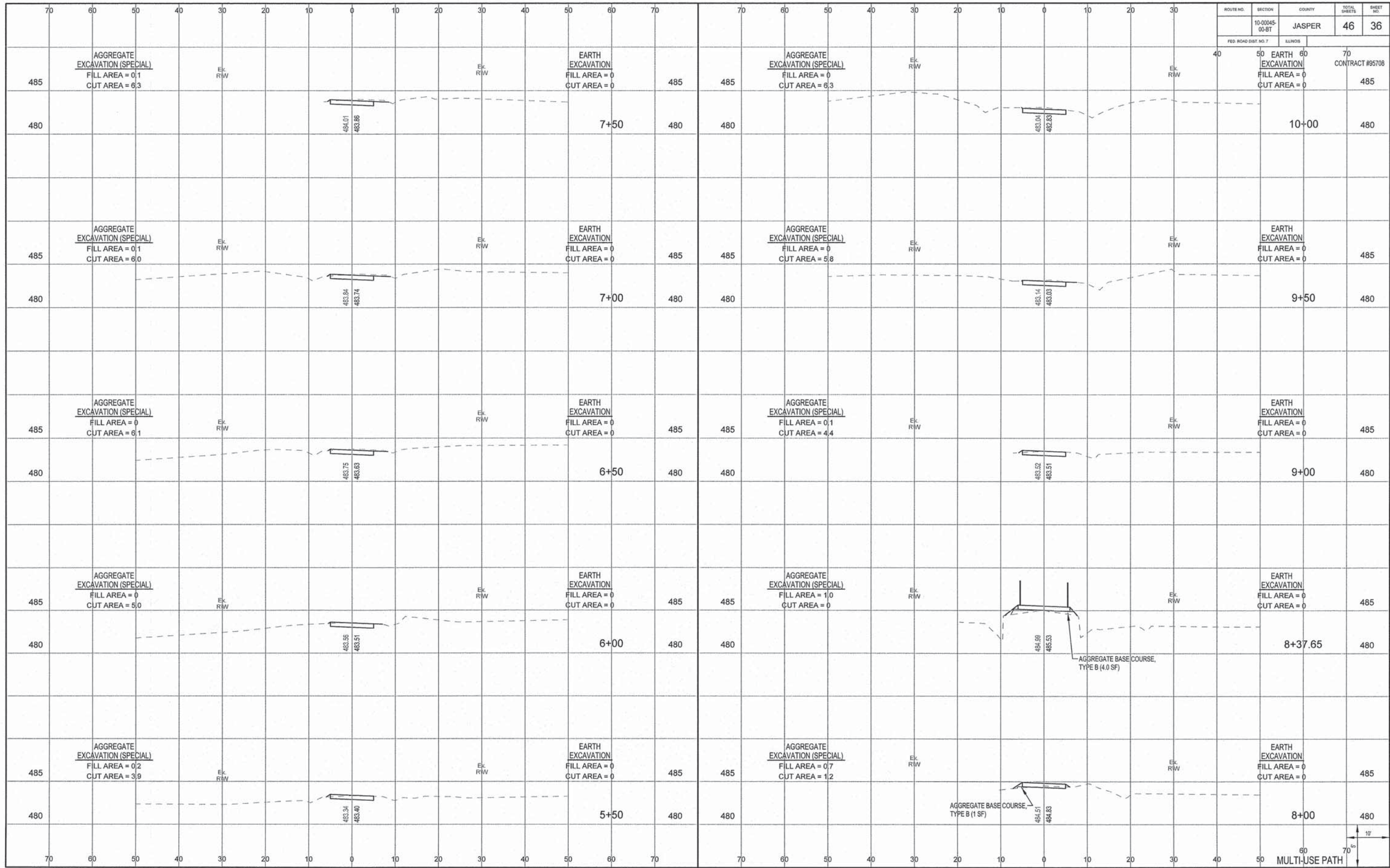
	MILANO & GRUNLOH ENGINEERS, LLC 114 WEST WASHINGTON P.O. BOX 987 EFFINGHAM, ILLINOIS 62401	RIGHT-OF-WAY PLAN AND REFERENCE TIES EAGLE TRAIL CITY OF NEWTON SECTION 10-00045-00-BT JASPER COUNTY, ILLINOIS
	Phone: (217) 347-7262 (800) 677-3714 Fax #: (217) 343-3433	
	Web Address: www.mgengineers.com Design Firm #: 184-003198	
	File name: S:\DWG\1010294\dwg\ROW Plan.dwg Plot date: 04/11/13 at 07:05 F.B. 685,686,687,689,690	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-00045-00-BT		JASPER	46	35

FED. ROAD DIST. NO. 7
 SLINGS
 CONTRACT #95708



60
 MULTI-USE PATH



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-00045-00-8T	JASPER	ILLINOIS	46	36

FED. ROAD DIST. NO. 7
 40 50 60 70
 EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 0
 CONTRACT #95708

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0.1
 CUT AREA = 6.3

EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 0

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0
 CUT AREA = 6.3

EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 0

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0.1
 CUT AREA = 6.0

EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 0

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0
 CUT AREA = 5.8

EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 0

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0
 CUT AREA = 6.1

EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 0

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0.1
 CUT AREA = 4.4

EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 0

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0
 CUT AREA = 5.0

EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 0

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 1.0
 CUT AREA = 0

EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 0

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0.2
 CUT AREA = 3.9

EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 0

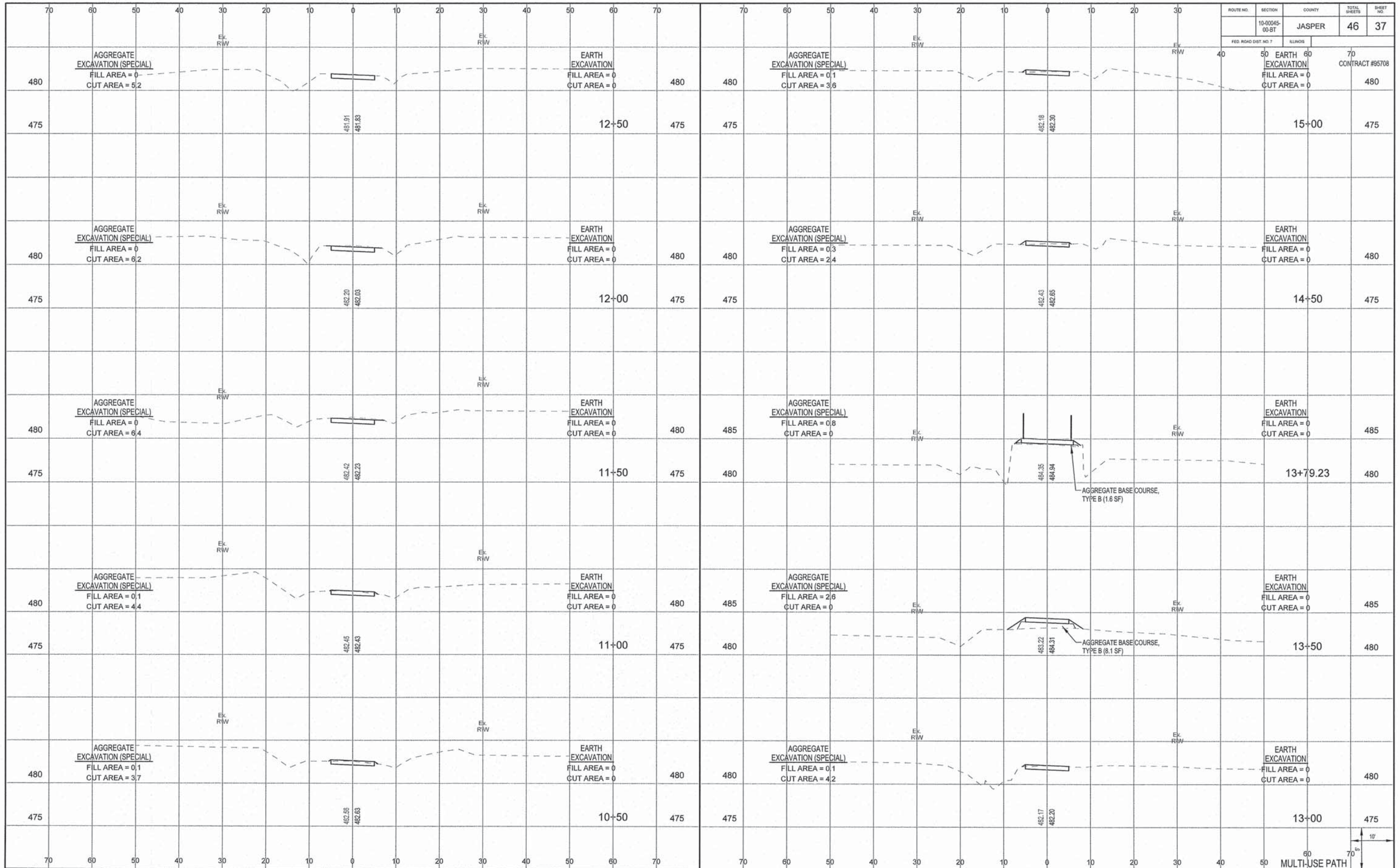
AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0.7
 CUT AREA = 1.2

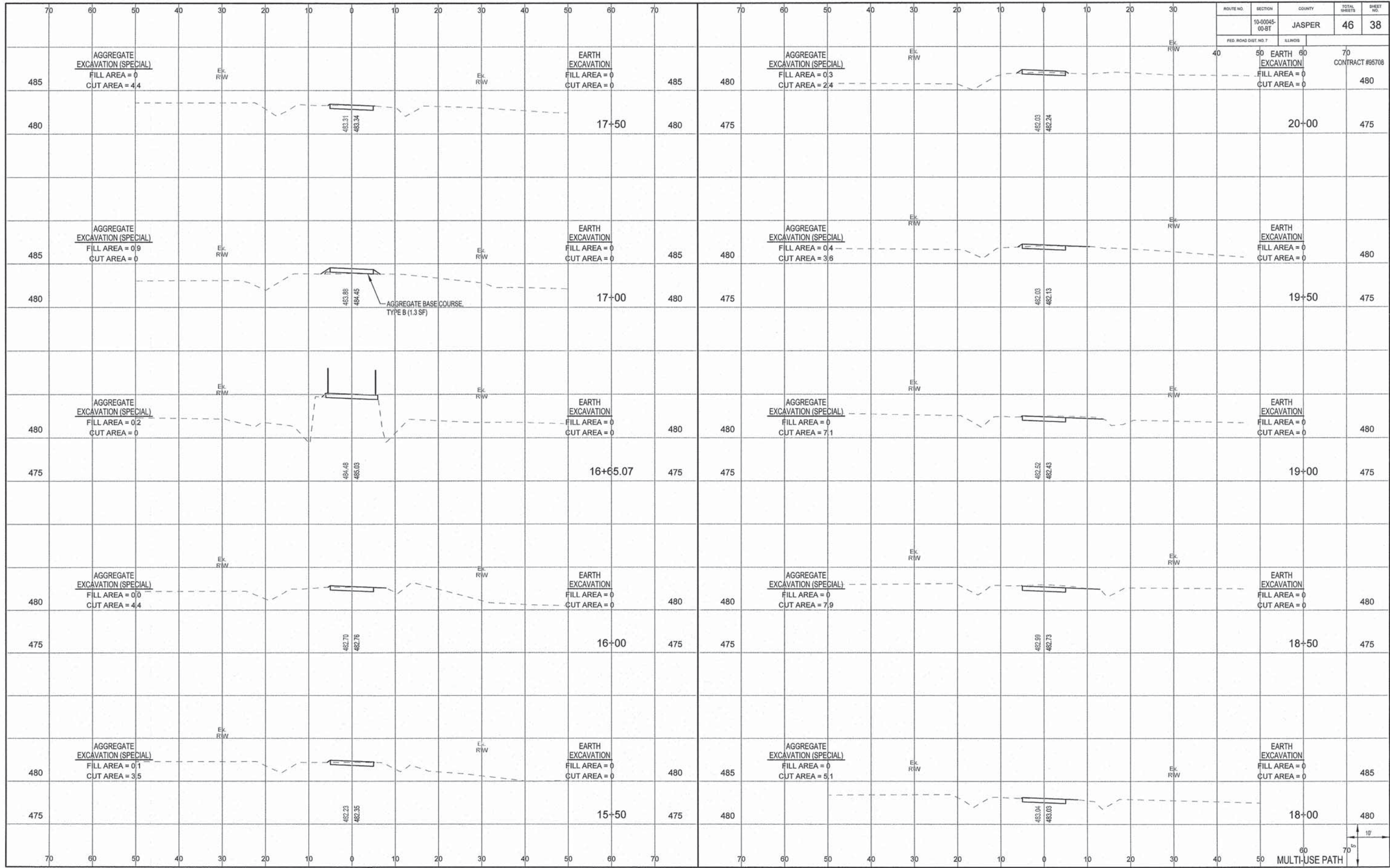
EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 0

AGGREGATE BASE COURSE, TYPE B (1 SF)

AGGREGATE BASE COURSE, TYPE B (4.0 SF)

60
 70
 MULTI-USE PATH





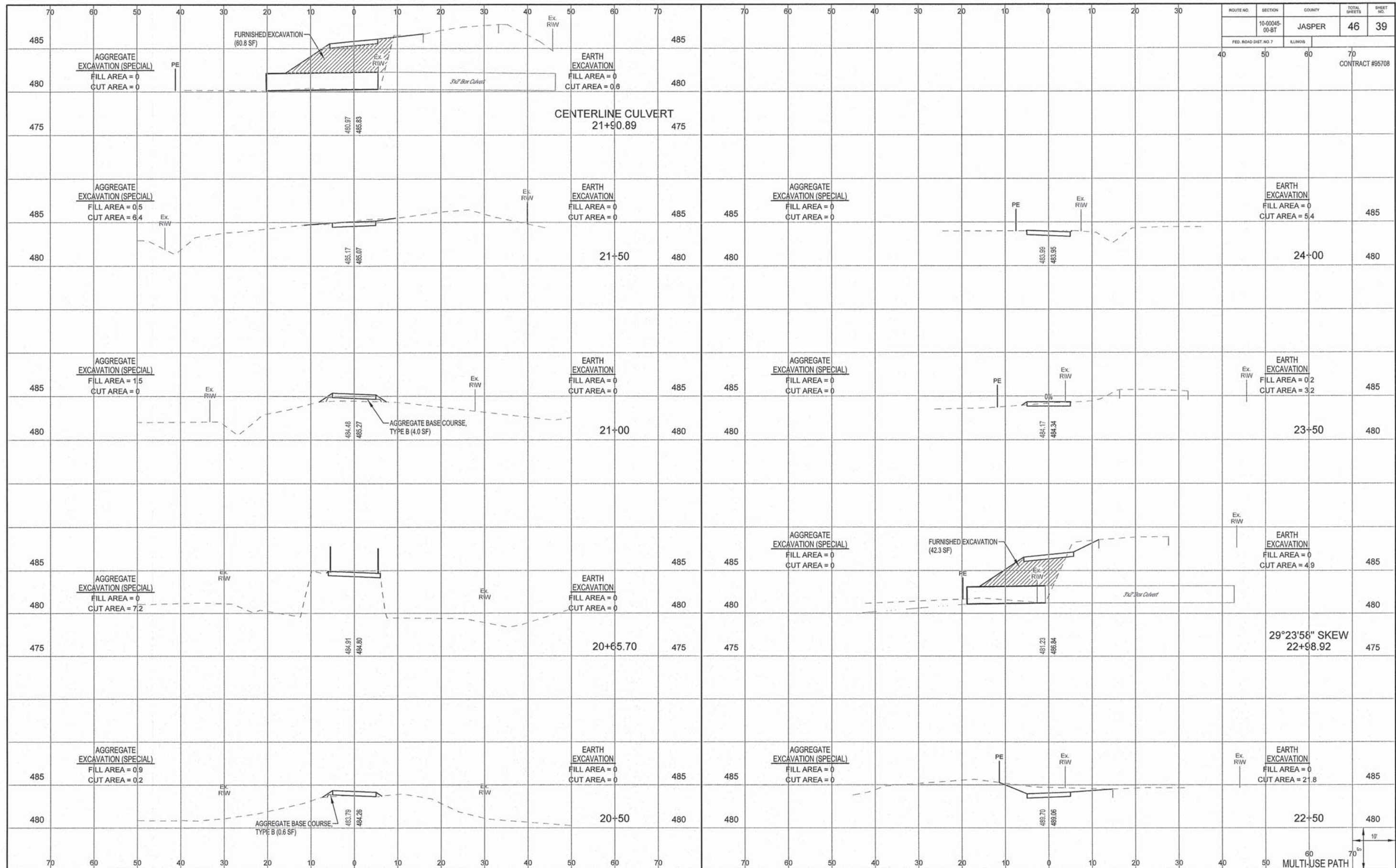
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-00045-00-ST		JASPER	46	38

FED. ROAD DIST. NO. 7 ILLINOIS CONTRACT #55708

STATION	DESCRIPTION	FILL AREA	CUT AREA	STATION	DESCRIPTION	FILL AREA	CUT AREA	STATION	DESCRIPTION	FILL AREA	CUT AREA
485	AGGREGATE EXCAVATION (SPECIAL)	0	4.4	485	EARTH EXCAVATION	0	0	480	EARTH EXCAVATION	0	0
480				480				475			
485	AGGREGATE EXCAVATION (SPECIAL)	0.9	0	485	EARTH EXCAVATION	0	0	480	EARTH EXCAVATION	0	0
480				480				475			
480	AGGREGATE EXCAVATION (SPECIAL)	0.2	0	480	AGGREGATE EXCAVATION (SPECIAL)	0	7.1	480	EARTH EXCAVATION	0	0
475				475				475			
480	AGGREGATE EXCAVATION (SPECIAL)	0.0	4.4	480	AGGREGATE EXCAVATION (SPECIAL)	0	7.9	480	EARTH EXCAVATION	0	0
475				475				475			
480	AGGREGATE EXCAVATION (SPECIAL)	0.1	3.5	480	AGGREGATE EXCAVATION (SPECIAL)	0	5.1	485	EARTH EXCAVATION	0	0
475				475				480			

60 70' MULTI-USE PATH

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-00045-00-BT		JASPER	46	39
FED. ROAD DIST. NO. 7	ILLINOIS			
				CONTRACT #95708



485
 AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0
 CUT AREA = 0

FURNISHED EXCAVATION (60.8 SF)

36" Box Culvert

480

475

CENTERLINE CULVERT
 21+90.89

485

EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 0.6

480

485

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0.5
 CUT AREA = 6.4

480

21+50

485

EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 0

480

485

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0
 CUT AREA = 0

480

24+00

485

EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 5.4

480

485

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 1.5
 CUT AREA = 0

480

21+00

485

EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 0

480

AGGREGATE BASE COURSE, TYPE B (4.0 SF)

485

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0
 CUT AREA = 0

480

23+50

485

EARTH EXCAVATION
 FILL AREA = 0.2
 CUT AREA = 3.2

480

485

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0
 CUT AREA = 7.2

480

20+65.70

485

EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 0

480

485

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0
 CUT AREA = 0

480

29°23'56" SKEW
 22+98.92

485

EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 4.9

480

485

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0.9
 CUT AREA = 0.2

480

20+50

485

EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 0

480

AGGREGATE BASE COURSE, TYPE B (0.6 SF)

485

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0
 CUT AREA = 0

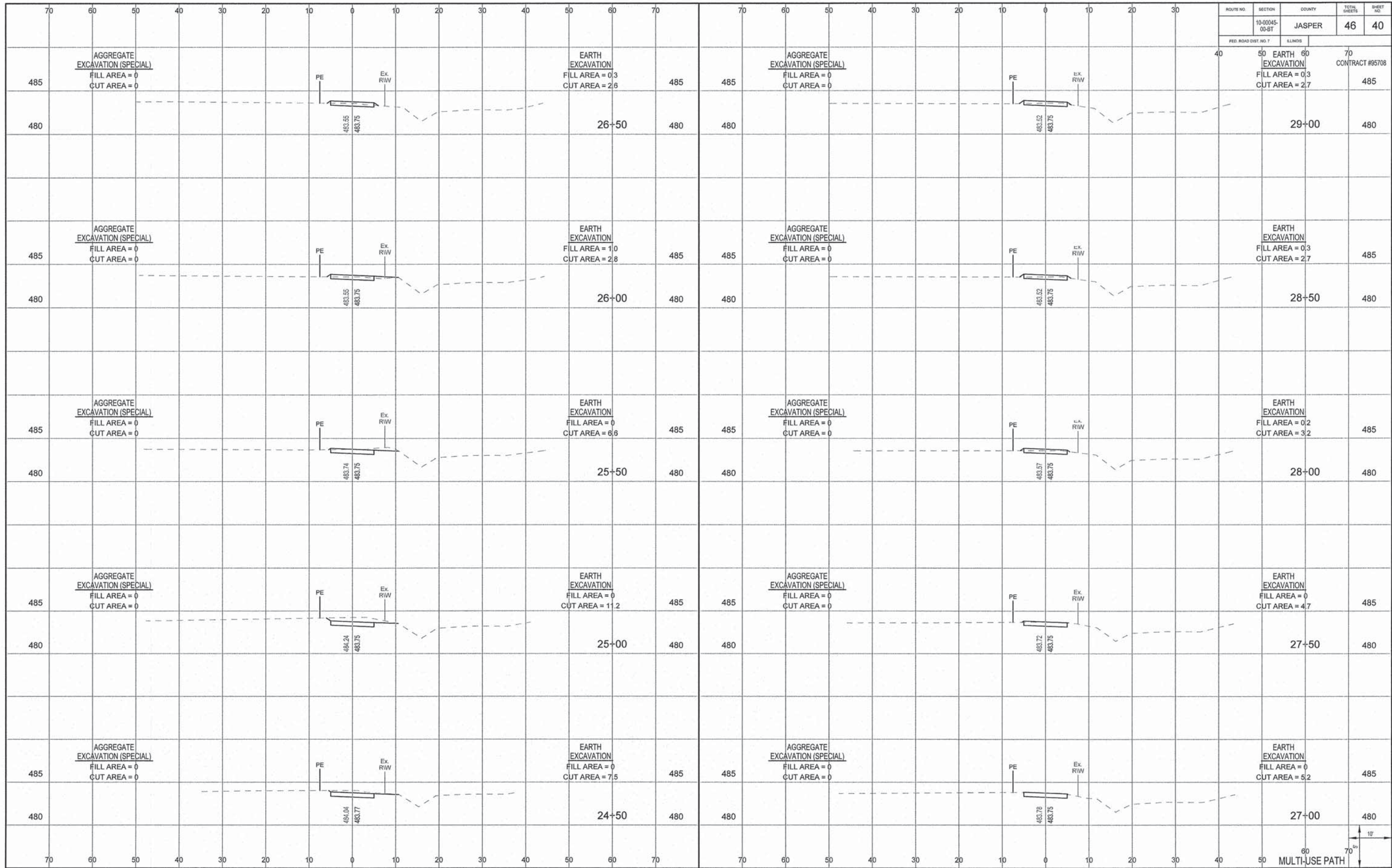
480

22+50

485

EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 21.8

480



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-00045-00-BT		JASPER	46	40
FED. ROAD DIST. NO. 7		ILLINOIS		

40 50 60 70
 EARTH EXCAVATION
 FILL AREA = 0.3
 CUT AREA = 2.7
 CONTRACT #95708

485 485
 480 480
 29+00 480

485 485
 480 480
 28+50 480

485 485
 480 480
 28+00 480

485 485
 480 480
 27+50 480

485 485
 480 480
 27+00 480

485 485
 480 480
 26+50 480

485 485
 480 480
 26+00 480

485 485
 480 480
 25+50 480

485 485
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 25+00 480

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 24+50 480

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485 485
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 24+50 480

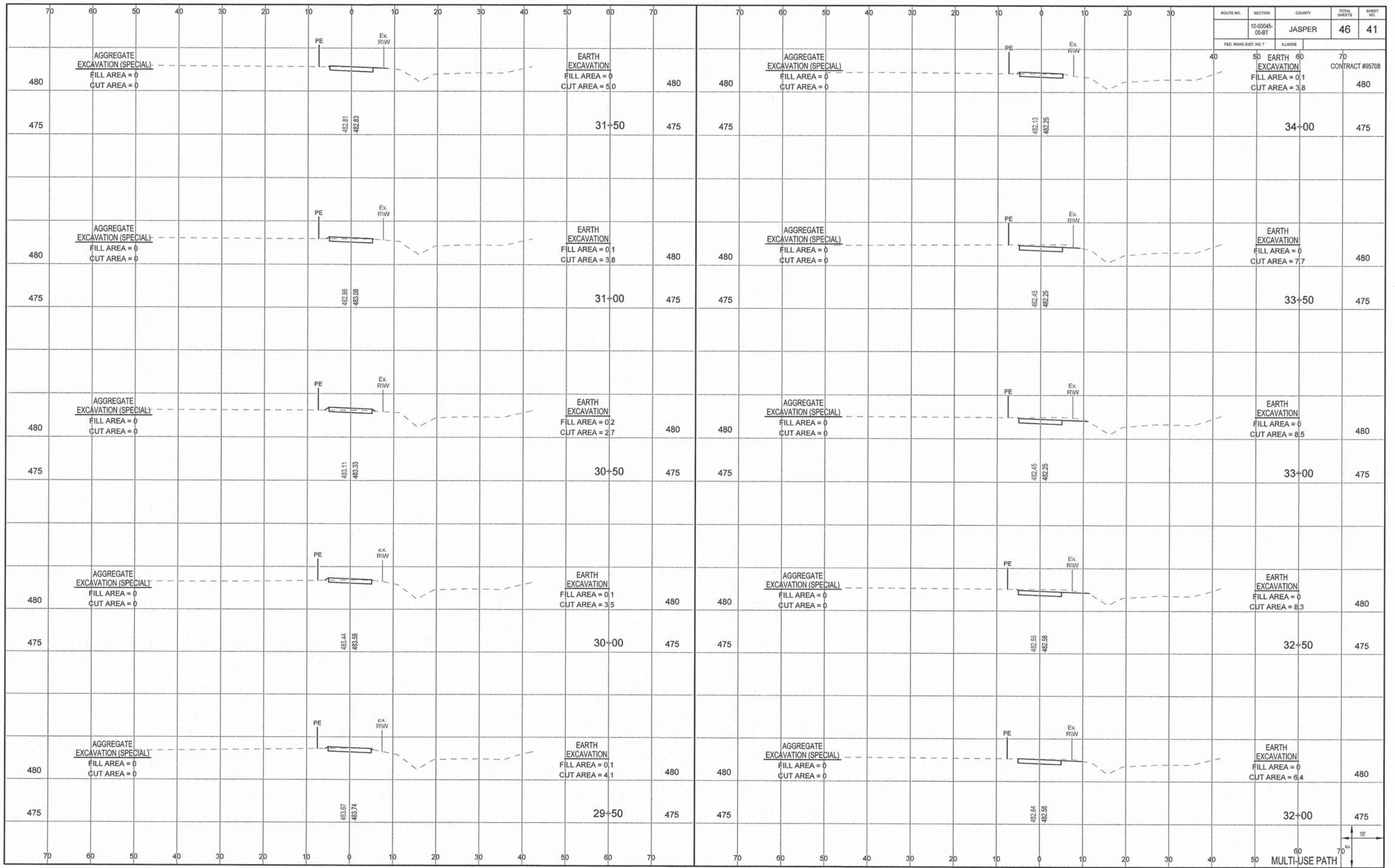
485 485
 480 480
 24+50 480

60
 MULTI-USE PATH



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-0045-00-BT	JASPER	JASPER	46	41
FED. ROAD DIST. NO. 7	ILLINOIS			

CONTRACT #95708



480 AGGREGATE EXCAVATION (SPECIAL) FILL AREA = 0 CUT AREA = 0

475 482.81 482.83 31-50 480 480

480 AGGREGATE EXCAVATION (SPECIAL) FILL AREA = 0 CUT AREA = 0

475 482.13 482.25 34-00 480 480

480 AGGREGATE EXCAVATION (SPECIAL) FILL AREA = 0 CUT AREA = 0

475 482.96 483.08 31-00 480 480

480 AGGREGATE EXCAVATION (SPECIAL) FILL AREA = 0 CUT AREA = 0

475 482.45 482.25 33-50 480 480

480 AGGREGATE EXCAVATION (SPECIAL) FILL AREA = 0 CUT AREA = 0

475 483.11 483.33 30-50 480 480

480 AGGREGATE EXCAVATION (SPECIAL) FILL AREA = 0 CUT AREA = 0

475 482.45 482.25 33-00 480 480

480 AGGREGATE EXCAVATION (SPECIAL) FILL AREA = 0 CUT AREA = 0

475 483.44 483.58 30-00 480 480

480 AGGREGATE EXCAVATION (SPECIAL) FILL AREA = 0 CUT AREA = 0

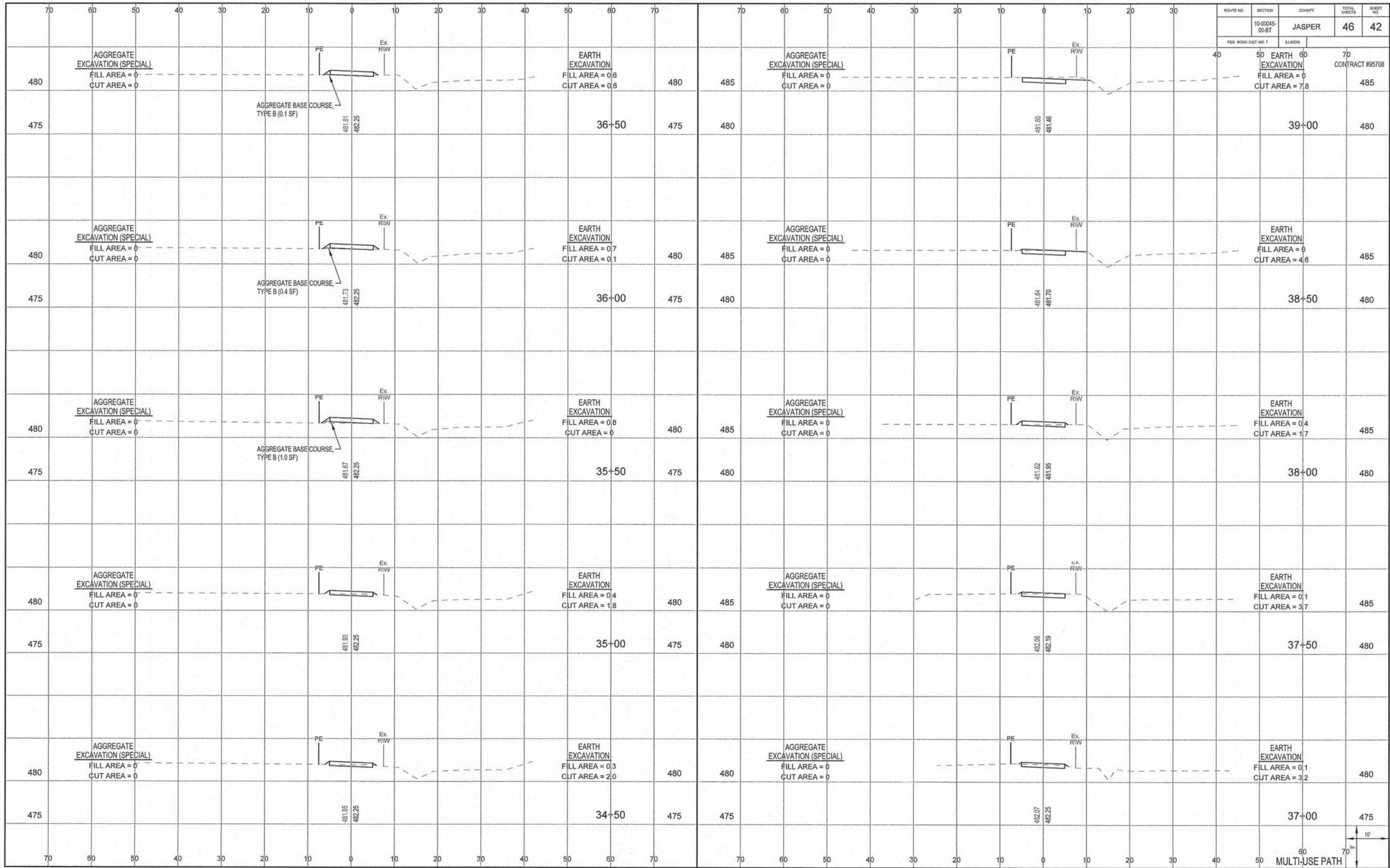
475 482.55 482.58 32-50 480 480

480 AGGREGATE EXCAVATION (SPECIAL) FILL AREA = 0 CUT AREA = 0

475 483.67 483.74 29-50 480 480

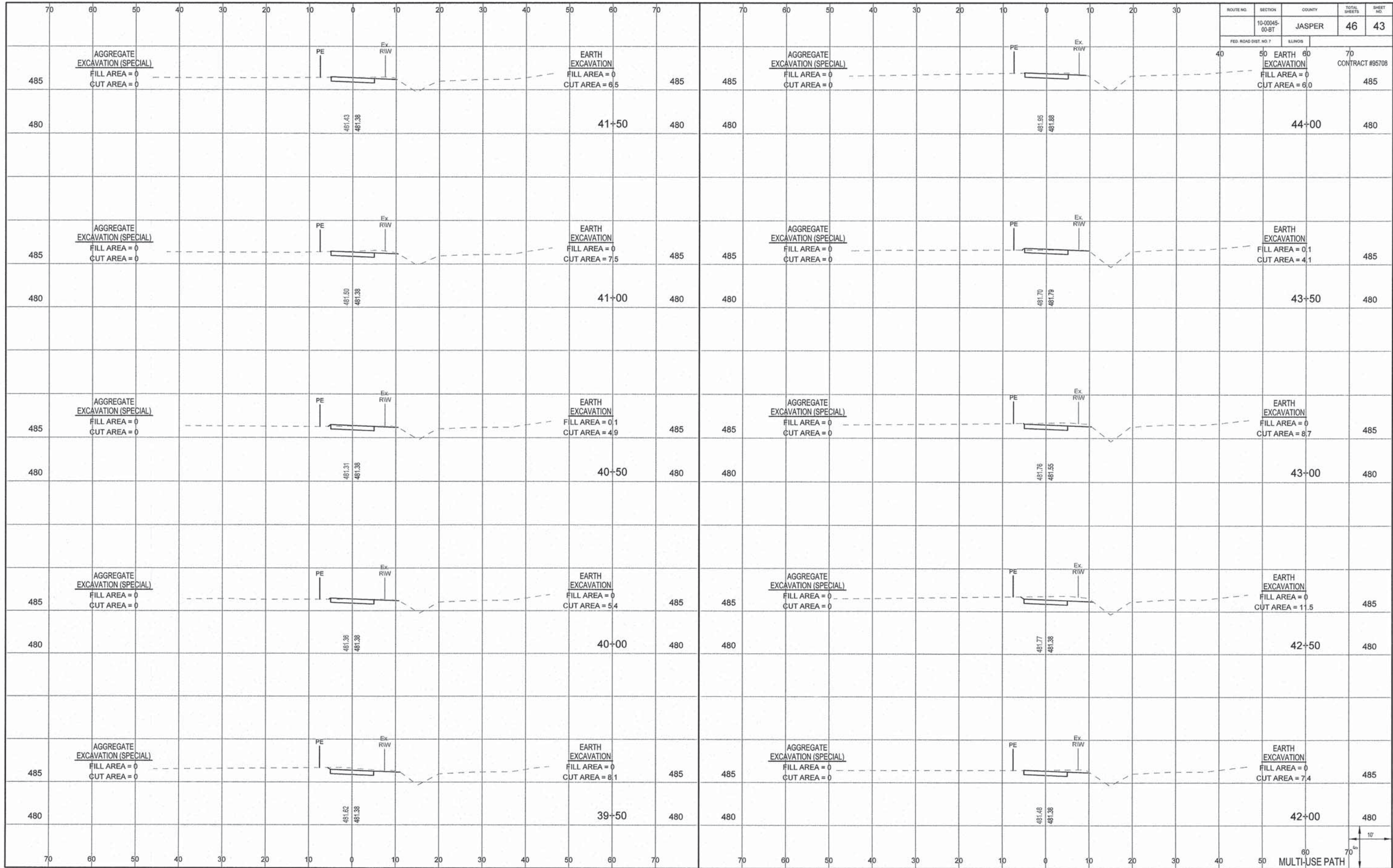
480 AGGREGATE EXCAVATION (SPECIAL) FILL AREA = 0 CUT AREA = 0

475 482.64 482.58 32-00 480 480



MULTI-USE PATH





ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-00045-00-BT		JASPER	46	43
FED. ROAD DIST. NO. 7	BLINGS			

40 50 60 70
 EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 6.0
 CONTRACT #95708

485
 480
 41+50
 480 480
 44+00
 480

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0
 CUT AREA = 0
 PE
 Ex. RW
 EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 7.5
 485 485
 41+00
 480 480
 43+50
 480

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0
 CUT AREA = 0
 PE
 Ex. RW
 EARTH EXCAVATION
 FILL AREA = 0.1
 CUT AREA = 4.1
 485 485
 40+50
 480 480
 43+00
 480

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0
 CUT AREA = 0
 PE
 Ex. RW
 EARTH EXCAVATION
 FILL AREA = 0.1
 CUT AREA = 4.9
 485 485
 40+00
 480 480
 42+50
 480

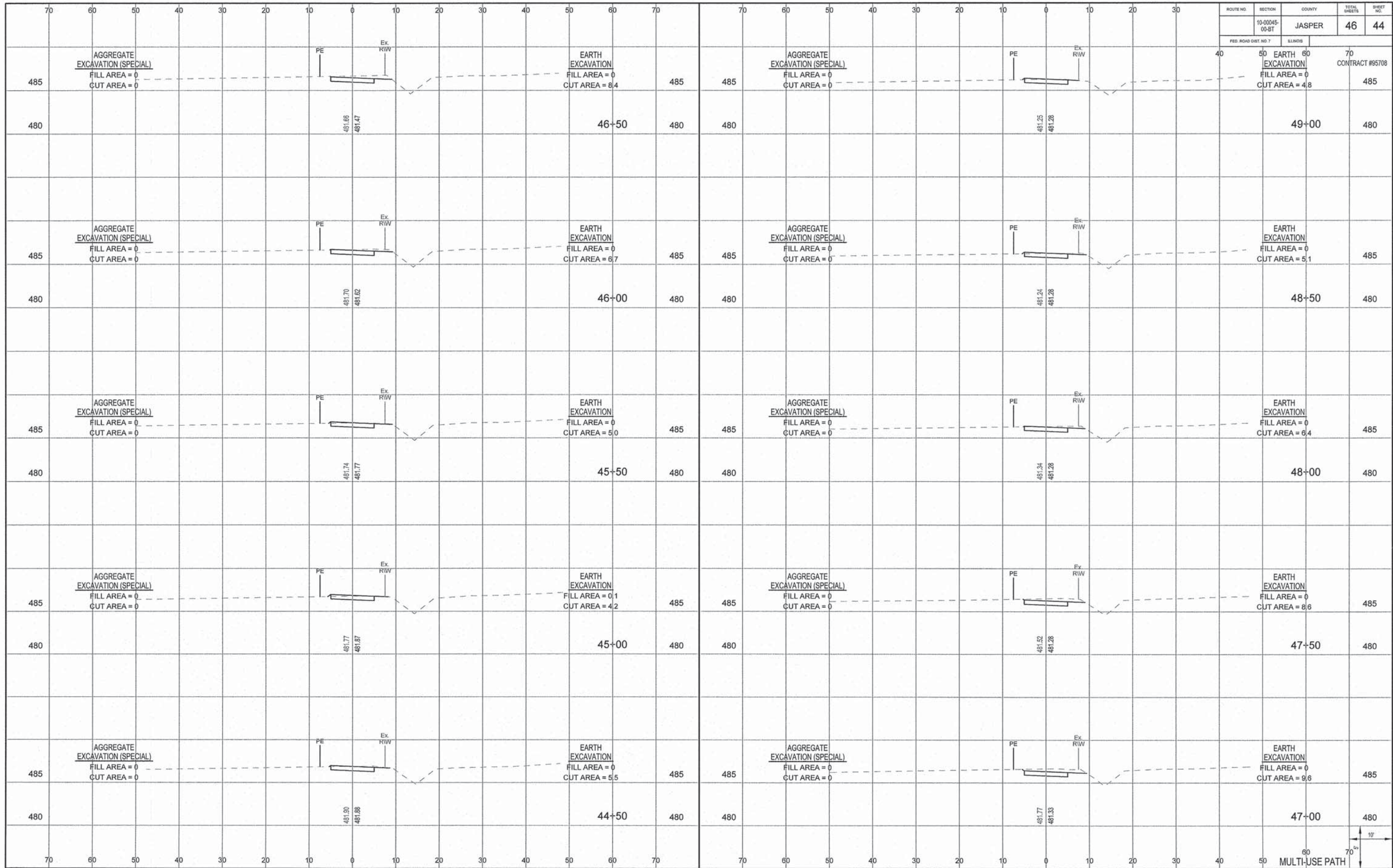
AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0
 CUT AREA = 0
 PE
 Ex. RW
 EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 5.4
 485 485
 39+50
 480 480
 42+00
 480

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0
 CUT AREA = 0
 PE
 Ex. RW
 EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 8.1
 485 485
 42+00
 480

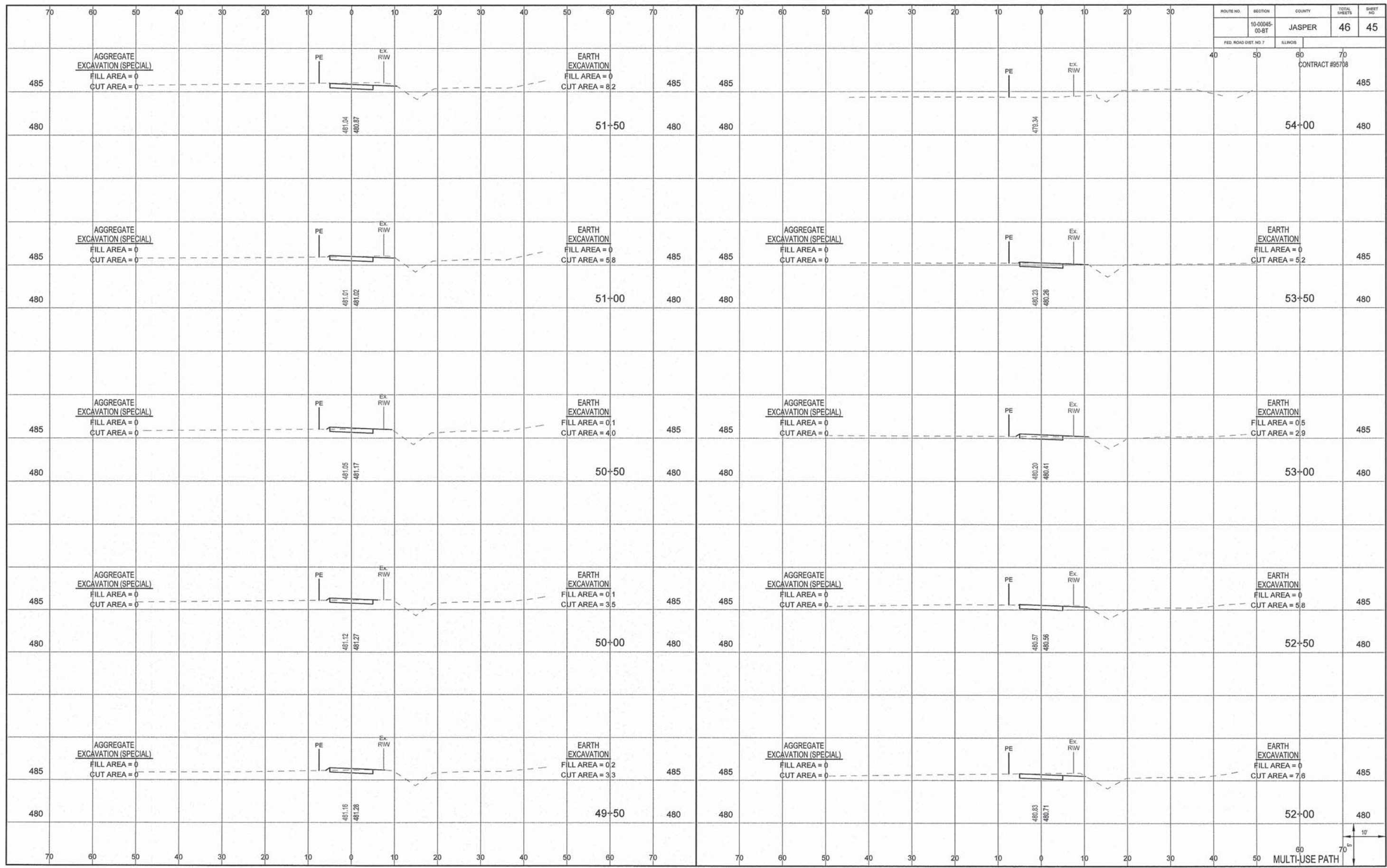
AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0
 CUT AREA = 0
 PE
 Ex. RW
 EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 11.5
 485 485
 42+00
 480

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0
 CUT AREA = 0
 PE
 Ex. RW
 EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 6.1
 485 485
 42+00
 480

AGGREGATE EXCAVATION (SPECIAL)
 FILL AREA = 0
 CUT AREA = 0
 PE
 Ex. RW
 EARTH EXCAVATION
 FILL AREA = 0
 CUT AREA = 7.4
 485 485
 42+00
 480
 10'
 70'
 MULTI-USE PATH



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00045-00-BT	JASPER	46	45
FED. ROAD DIST. NO. 7	ILLINOIS	CONTRACT #95708		



485 AGGREGATE EXCAVATION (SPECIAL)
FILL AREA = 0
CUT AREA = 0

480 481.04 480.87

51+50

485 EARTH EXCAVATION
FILL AREA = 0
CUT AREA = 8.2

485 PE EX. RW

480 479.34

54+00

485 EARTH EXCAVATION
FILL AREA = 0
CUT AREA = 5.2

485 AGGREGATE EXCAVATION (SPECIAL)
FILL AREA = 0
CUT AREA = 0

480 481.01 481.02

51+00

485 EARTH EXCAVATION
FILL AREA = 0
CUT AREA = 5.8

485 PE EX. RW

480 480.23 480.26

53+50

485 EARTH EXCAVATION
FILL AREA = 0
CUT AREA = 5.2

485 AGGREGATE EXCAVATION (SPECIAL)
FILL AREA = 0
CUT AREA = 0

480 481.05 481.17

50+50

485 EARTH EXCAVATION
FILL AREA = 0.1
CUT AREA = 4.0

485 PE EX. RW

480 480.20 480.41

53+00

485 EARTH EXCAVATION
FILL AREA = 0.5
CUT AREA = 2.9

485 AGGREGATE EXCAVATION (SPECIAL)
FILL AREA = 0
CUT AREA = 0

480 481.12 481.27

50+00

485 EARTH EXCAVATION
FILL AREA = 0.1
CUT AREA = 3.5

485 PE EX. RW

480 480.57 480.56

52+50

485 EARTH EXCAVATION
FILL AREA = 0
CUT AREA = 5.8

485 AGGREGATE EXCAVATION (SPECIAL)
FILL AREA = 0
CUT AREA = 0

480 481.16 481.28

49+50

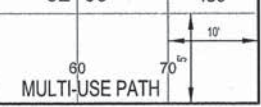
485 EARTH EXCAVATION
FILL AREA = 0.2
CUT AREA = 3.3

485 PE EX. RW

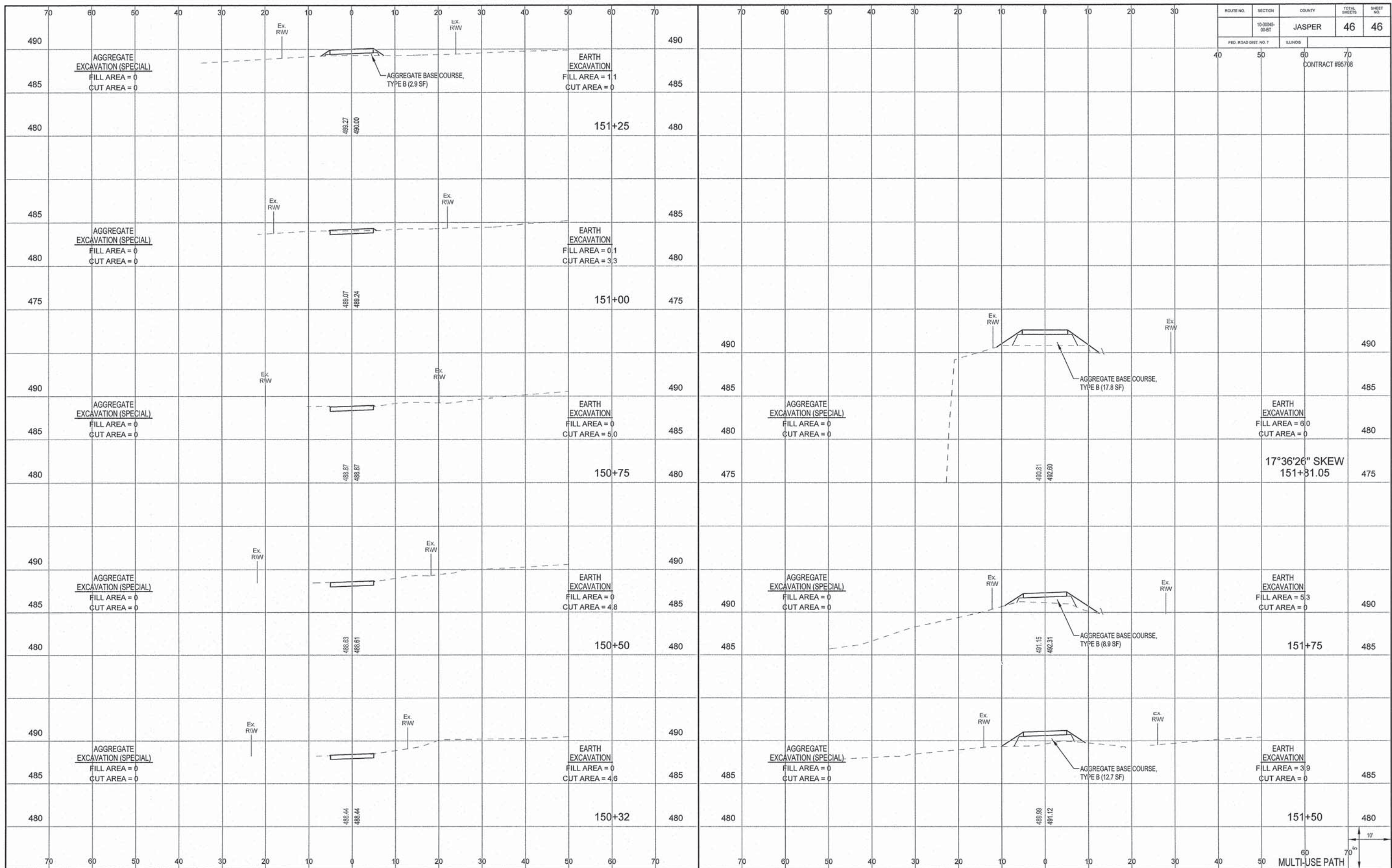
480 480.83 480.71

52+00

485 EARTH EXCAVATION
FILL AREA = 0
CUT AREA = 7.6



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-00045-00-BT		JASPER	46	46
FED. ROAD DIST. NO. 7	ILLINOIS			



60
70
MULTI-USE PATH