

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

PROPOSED  
FERRY BOAT LANDING IMPROVEMENTS

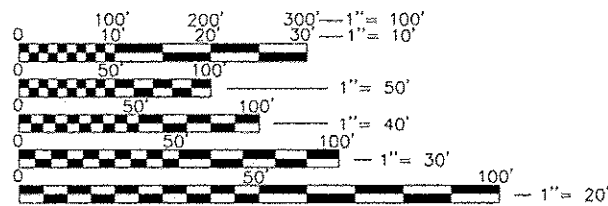
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	11-00018-00-RS	JERSEY	15	1
FEDERAL AID PROJECT	ILLINOIS	CONTRACT NO. 97544		

SHEET NUMBER	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	SUMMARY OF QUANTITIES & SCHEDULES
4	EXISTING TYPICAL SECTIONS
5	PROPOSED TYPICAL SECTIONS
6	PLAN
7-8	PROFILES
9	TRAFFIC CONTROL PLAN
10-12	STAGING PLAN
13-14	CROSS SECTIONS

SECTION 11-00018-00-RS  
PROJECT NO. FBD-0083(050)  
JERSEY COUNTY  
CITY OF GRAFTON  
JOB NO. C-98-312-12

STANDARDS

STD. NO.
000001-06
001006
701001-02
701101-04
701301-04
701501-06
701901-03
720001-01
720006-04
BLR 17-4
<b>BLR 18-5</b>

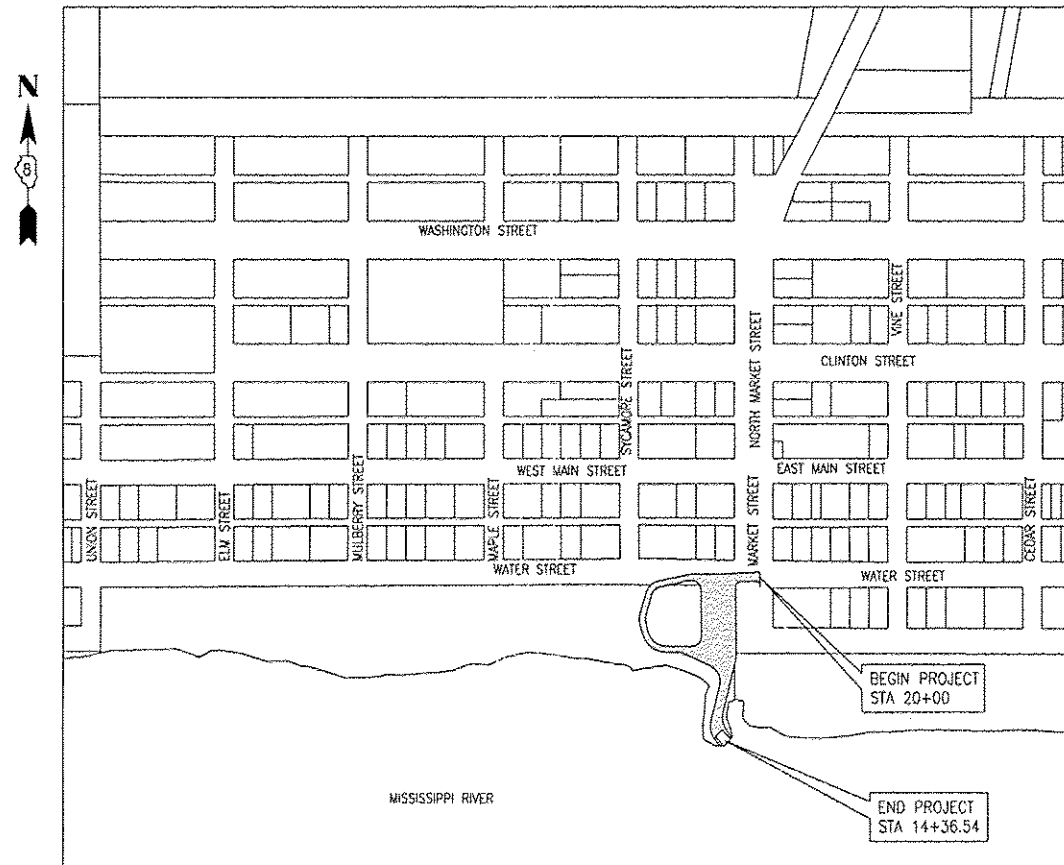


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER AME/SES  
PROJECT MANAGER RAK

FUNCTIONAL CLASSIFICATION: FERRY LANDING



LOCATION MAP  
SCALE: 1" = 500'  
NET LENGTH OF PROJECT = 1,103.24 FEET = 0.21 MILES



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

Approved: *[Signature]*  
City of Grafton, Mayor

Passed: *[Signature]*  
District 8 Engineer of Local Roads & Streets

Releasing for Bid Based on Limited Review: *[Signature]*  
Regional Director of Highways, Region 5 Engineer

















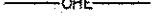
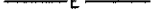


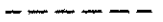
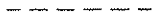
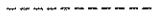


*Ronald A. Keepes 11/01/13*  
RONALD A. KEEPE, P.E. No. 062-048711  
(Printed by Authority of the State of Illinois)  
Job No. E118008


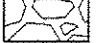



2100 State Street, P.O. Box 1325 Granite City, IL 62040 618-877-1400 F. 618-452-5641  
100 North Research Drive Edwardsville, IL 62025 618-659-0900 F. 618-659-0941  
330 N. Fourth Street, Suite 200 St. Louis, MO 63102 314-241-4444 F. 314-909-1331  
Professional Design Firm License No. 184.003369

**LEGEND**

-  FIRE HYDRANT
-  SIGN
-  WATER METER
-  WATER VALVE
- (TBA) TO BE ADJUSTED
- (TBR) TO BE REMOVED
- (TBR&R) TO BE REMOVED & RELOCATED
- (TBRBO) TO BE REMOVED BY OTHERS
- (TBR&RBO) TO BE REMOVED & RELOCATED BY OTHERS
- DND DO NOT DISTURB
-  PROPERTY LINE
-  EXIST R.O.W. LINE
-  CONSTRUCTION LIMITS
-  PROJECT BOUNDARY
-  EXISTING BOLLARD
-  FUTURE BOLLARD
-  EXISTING MOORING PILE
-  WATER WELL
-  LIGHT POLE
-  FUTURE IMPROVEMENTS
-  GUARDRAIL
-  WATER LINE
-  OVERHEAD ELECTRIC LINE
-  UNDERGROUND ELECTRIC LINE
-  DITCH/SWALE OR FLOW DIRECTION
-  CULVERT
-  EXISTING CONDUITS
-  EXISTING EDGE OF RIVER
-  EXISTING TOPO FEATURES

**HATCH LEGEND**

-  PROPOSED AGGREGATE SURFACE
-  PROPOSED RIPRAP
-  PROPOSED STAMPED CONCRETE

**GENERAL NOTES:**

1. ILLINOIS STATE LAW REQUIRES A 48-HR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-J.U.L.I.E. MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
  - \* CITY OF GRAFTON  
235 GRAFTON HILLS DRIVE  
GRAFTON, ILLINOIS 62037  
(618)786-3616  
ATTN: JOEL SCHWAAB
  - \* AMEREN IP  
2600 N. CENTER STREET  
P.O. BOX 378, MC Q-10  
MARYVILLE, IL 62062  
(800) 750-6890  
GAS (618) 348-1287  
ELECTRIC (618) 346-1215
  - \* GRAFTON TELEPHONE COMPANY  
119 EAST MAIN STREET  
GRAFTON, ILLINOIS 62037  
(618) 786-3311  
ATTN: MIKE ARNOLD
2. (MEMBERS OF J.U.L.I.E. (800) 892-0123 ARE INDICATED BY \*. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.)
3. FOR UTILITY LOCATION PURPOSES, THIS PROJECT IS LOCATED IN SECTION 15 OF TOWNSHIP 6 NORTH, RANGE 12 WEST OF THE THIRD PRINCIPAL MERIDIAN.
4. THE CONTRACTOR SHALL ADJUST WATER VALVES, AND OTHER ITEMS LOCATED WITHIN THE EXISTING ROADWAY TO MATCH THE PROPOSED ROADWAY SURFACE. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
5. NO SEEDING SHALL BE REQUIRED WITHIN THE CONSTRUCTION LIMITS. ALL AREAS THAT ARE DISTURBED OUTSIDE THE CONSTRUCTION LIMITS SHALL BE SEEDED AT THE CONTRACTORS EXPENSE CONFORMING TO ARTICLE 250.04.
6. THE CONTRACTOR SHALL BE REQUIRED TO PERFORM SAWCUTTING AT THE EXISTING PAVEMENT, EXISTING WIDENING, OR EXISTING SHOULDER EDGE THROUGHOUT THE PROJECT LIMITS IN ORDER TO PERFORM REMOVAL OPERATIONS. THIS SAWING WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST FOR EARTH EXCAVATION.
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
8. THE FOLLOWING CONSTANTS WERE USED IN THE CALCULATION OF QUANTITIES FOR THIS PROJECT:
  - GRANULAR MATERIALS                      2.05 TONS/C.Y.
9. "ROAD CONSTRUCTION AHEAD" SIGNS (48"x48") SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS, AND WILL BE CONSIDERED INCLUDED IN THE TRAFFIC CONTROL AND PROTECTION, (SPECIAL) PAY ITEM. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AN ON-SITE INSPECTION PRIOR TO SUBMITTING A BID ON THIS PROJECT. UPON RECEIPT OF A BID, IT SHALL BE ASSUMED THAT THE CONTRACTOR IS FULLY FAMILIAR WITH THE CONSTRUCTION SITE.
11. ALL EXCAVATED AREAS DUE TO WIDENING AND/OR SHOULDER RECONSTRUCTION OPERATIONS SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES WITH APPROPRIATE LIGHTS. PAYMENT FOR THIS WORK SHALL BE CONSIDERED INCLUDED IN THE TRAFFIC CONTROL AND PROTECTION, (SPECIAL) PAY ITEM.
12. FERRY BOAT LANDING TO REMAIN OPEN TO ALLOW FERRY BOAT OPERATIONS DURING CONSTRUCTION. COST TO PROVIDE WORK WHILE FERRY BOAT IS OPEN, SHALL BE INCLUDED IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE FIRE DEPARTMENT AND POLICE DEPARTMENT OF THE RESPECTIVE MUNICIPALITY ANY TIME NORMAL TRAFFIC FLOW ON ANY STREET OR ROAD IS TO BE INTERRUPTED, HOWEVER BRIEFLY.
  - CITY OF GRAFTON POLICE DEPARTMENT      618-786-3354 (NON EMERGENCY)
  - CITY OF GRAFTON FIRE DEPARTMENT        618-786-3300 (NON EMERGENCY)
  - JERSEY COUNTY SHERIFF DEPARTMENT      618-498-6881 (NON EMERGENCY)

**COMMITMENTS**

NONE

REVISIONS			
	PRELIMINARY REVIEW		
	3/1/2013		

**CITY OF GRAFTON**  
**FERRY BOAT LANDING IMPROVEMENTS**  
 SECTION 11-00018-00-RS      CONTRACT NO. 97544

**JUNEAU**  
 ENGINEERING & LAND SURVEYING  
 2108 State Street, P.O. Box 1325  
 Grafton, IL 62037  
 (618) 786-3300 F. 618-498-6881  
 Professional Engineer License No. 54-00381

DESIGNED BY	RAK/AME	JOB NO.	E118068
DRAWN BY	AME/RAK	SHEET NO.	2
CHECKED BY	RAK	OF	15
DATE	Mar. 5, 2013		

### SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	211
28100109	STONE RIPRAP, CLASS A5	SQ YD	395
28100209	STONE RIPRAP, CLASS A5	TON	500
28200200	FILTER FABRIC	SQ YD	395
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	2,014
67100100	MOBILIZATION	L SUM	1
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

\* SEE SPECIAL PROVISIONS

### EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION (CU YD)	EARTH * EXCAVATION ADJUSTED FOR SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
STAGE 1				
STA 11+83.56 TO STA 14+36.54	199	149	0	149
STAGE 2				
STA 20+00 TO STA 25+76.70	12	9	0	9
STAGE 3				
STA 10+12 TO STA 11+83.56	0	0	0	0
TOTAL	211	158	0	158 (+)

1. EARTHWORK QUANTITIES ARE VOLUMES FOR AREAS WHERE NO EXISTING RIPRAP EXISTS AND EXISTING EARTH IS TO BE EXCAVATED FOR INSTALLATION OF PROPOSED RIPRAP.

### RIPRAP SCHEDULE

LOCATION	STONE RIPRAP CLASS A5	STONE RIPRAP CLASS A5	FILTER FABRIC
	(SQ YD)	(TON)	(SQ YD)
STAGE 1			
STA 12+03.30 TO STA 14+56.54 LEFT	395		395
STA 12+45.68 TO STA 14+56.54 RIGHT		500	
TOTAL	395	500	395

NOTES:

1. THE SQUARE YARD QUANTITY FOR STONE RIPRAP SHALL BE USED ONLY IN AREAS WHERE THERE IS NO EXISTING RIPRAP. THE TONNAGE QUANTITY SHALL BE PLACED OVER AREAS OF EXISTING RIPRAP AND OVER TAPER ZONES.

### PAVING SCHEDULE

LOCATION	AGG SURF CSE A (TON)
STAGE 1	
STA 11+83.56 TO STA 14+36.54	624
STAGE 2	
STA 20+00 TO STA 25+76.70	450
STAGE 3	
STA 10+12 TO STA 11+83.56	940
TOTAL	2,014

REVISIONS

PRELIMINARY REVIEW

3/17/2013

CITY OF GRAFTON  
FERRY BOAT LANDING IMPROVEMENTS

SECTION 11-00018-00-RS CONTRACT NO. 97544

**JUNEAU**  
ENGINEERING & LAND SURVEYING

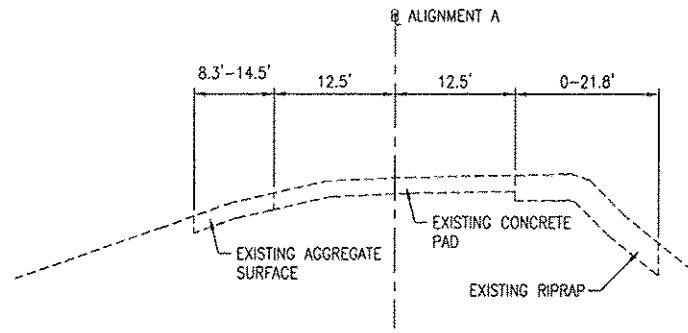
330 N. Fourth Street, Suite 200  
St. Louis, MO 63102  
314-241-4444 F. 314-666-1331

2100 State Street, P.O. Box 1325  
Grafton, VA 24348  
814-717-1400 F. 814-743-5541

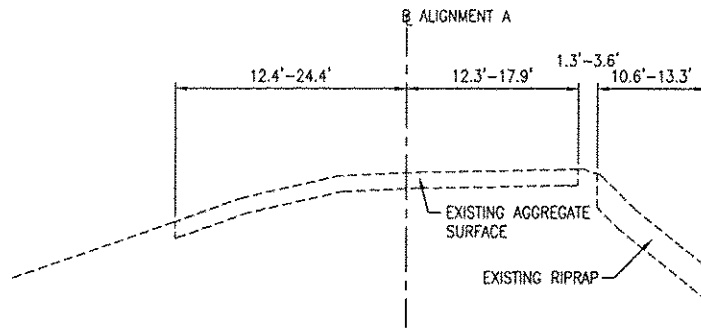
Professional Design Firm License No. 114023361

SUMMARY OF QUANTITIES & SCHEDULES

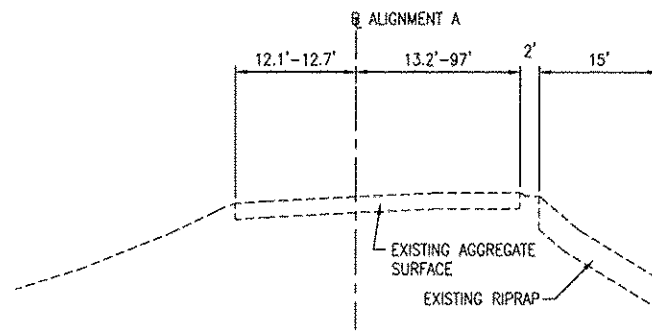
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DRAWN BY AME/RAK	SHEET NO. 3
CHECKED BY RAK	OF
DATE Mar. 5, 2013	15



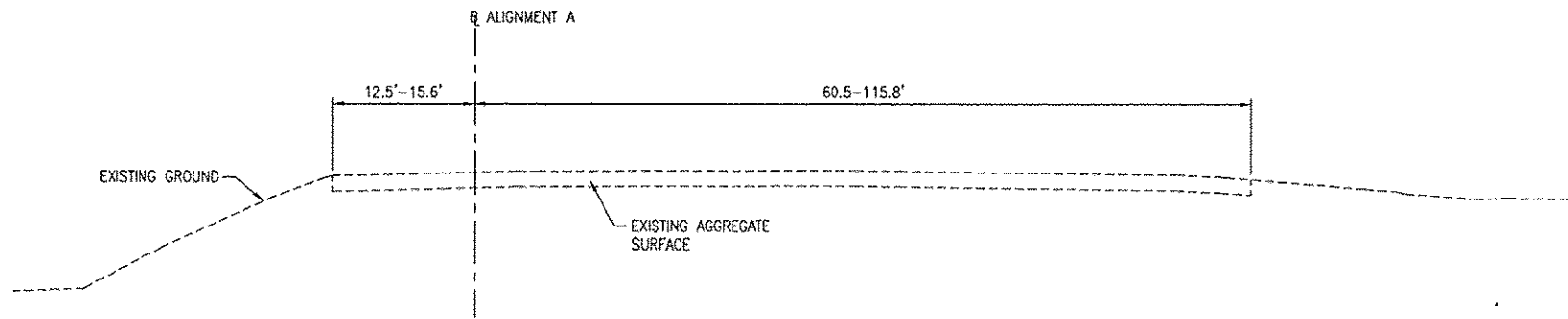
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STA. 14+06.44 TO STA. 14+36.54



ALIGNMENT A EXISTING TYPICAL SECTION  
STA. 13+00.00 TO STA. 14+06.44

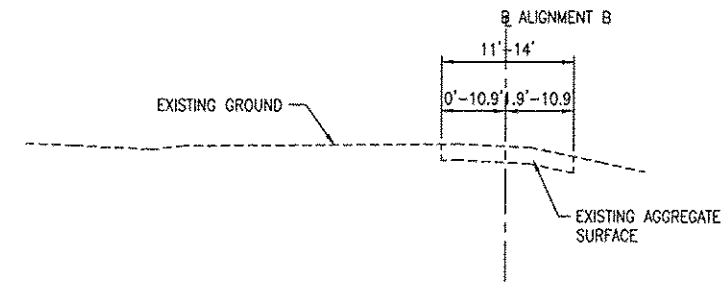


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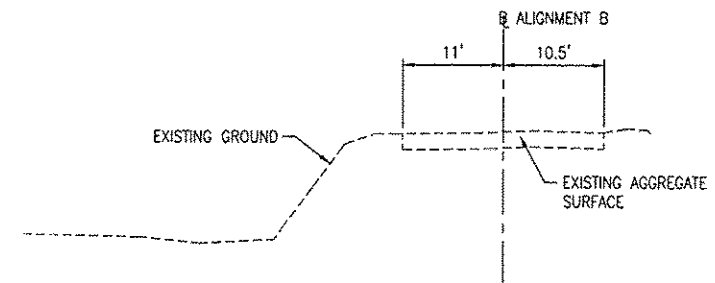


ALIGNMENT A EXISTING TYPICAL SECTION  
STA. 10+00.00 TO STA. 12+03.30

\* OMIT TYPICAL SECTIONS ALONG ALIGNMENT B FOR STA. 20+54.16 TO STA. 21+83.02 AND STA. 25+11.39 TO STA. 26+66.70 AS THESE TYPICAL SECTIONS OVERLAP TYPICAL SECTIONS ALONG ALIGNMENT A



ALIGNMENT B EXISTING TYPICAL SECTION  
STA. 21+83.02 TO STA. 25+11.39



ALIGNMENT B EXISTING TYPICAL SECTION  
STA. 20+00.00 TO STA. 20+54.16

REVISIONS	
PRELIMINARY REVIEW	
3/1/2013	

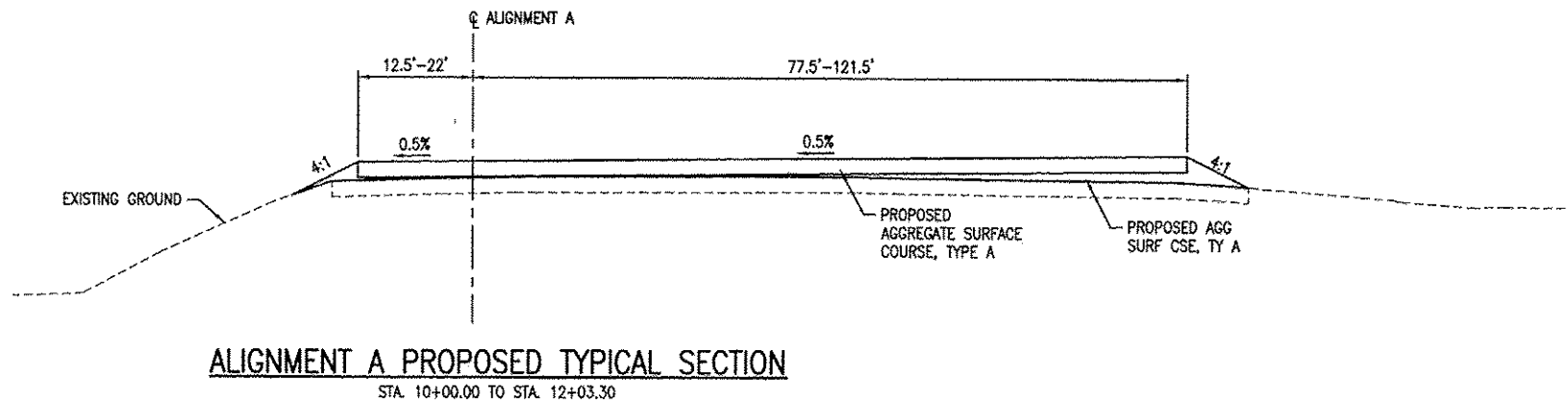
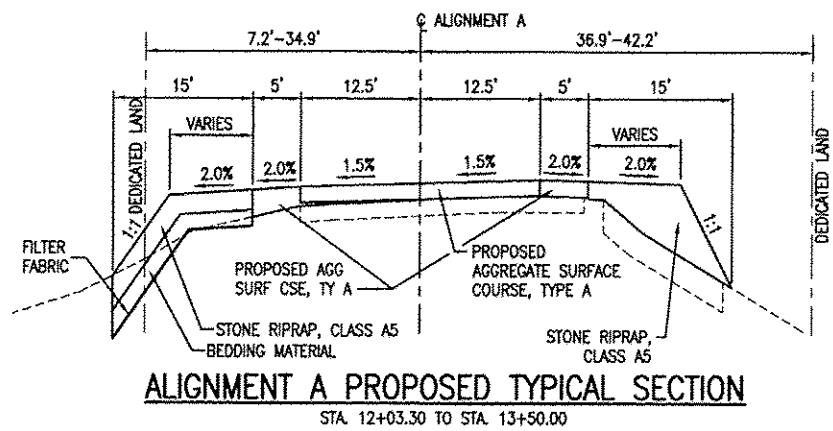
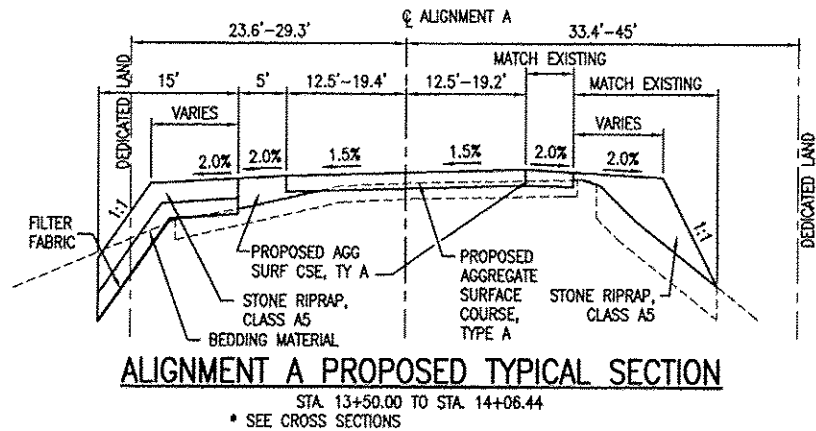
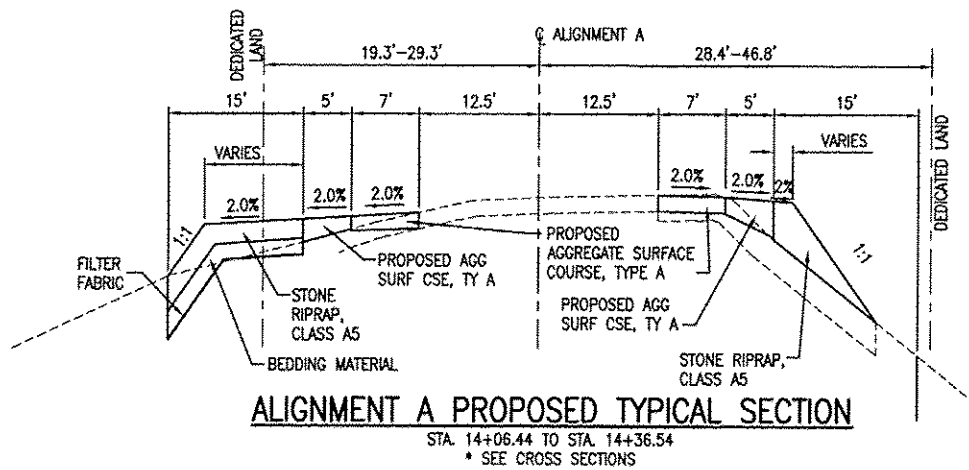
CITY OF GRAFTON  
FERRY BOAT LANDING IMPROVEMENTS  
SECTION 11-00018-00-RS CONTRACT NO. 97544

**JUNEAU**  
ENGINEERING & LAND SURVEYING  
330 N. Fourth Street, Suite 200  
St. Louis, MO 63102  
618-337-1100 F. 618-433-3441  
314-241-4444 F. 314-433-3311  
Professional Design Firm License No. 114020841

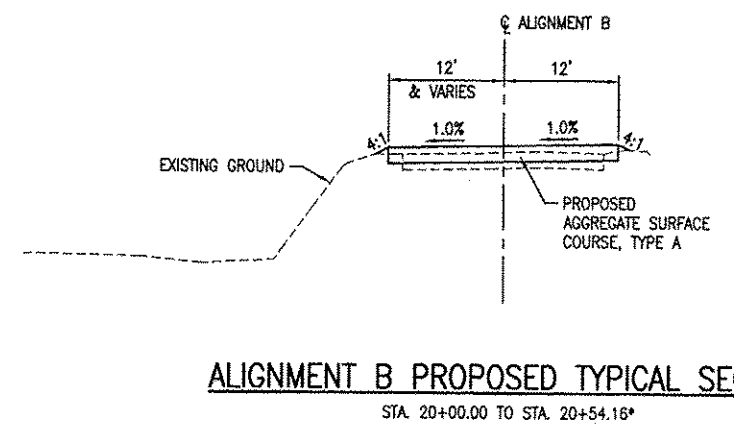
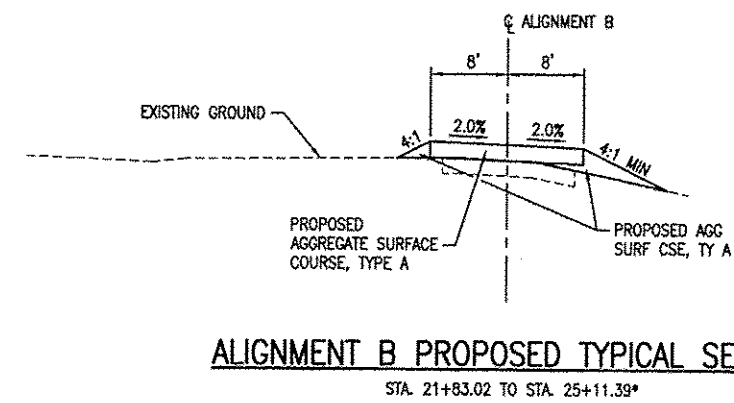
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RAK/AME	E118008
DRAWN BY	SHEET NO.
AMERAK	4
CHECKED BY	OF
RAK	15
DATE	
Mar. 5, 2013	

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\* OMIT TYPICAL SECTIONS ALONG ALIGNMENT B FOR STA. 20+54.16 TO STA. 21+83.02 AND STA. 25+11.39 TO STA. 26+66.70 AS THESE TYPICAL SECTIONS OVERLAP TYPICAL SECTIONS ALONG ALIGNMENT A



REVISIONS	
PRELIMINARY REVIEW	
3/1/2013	

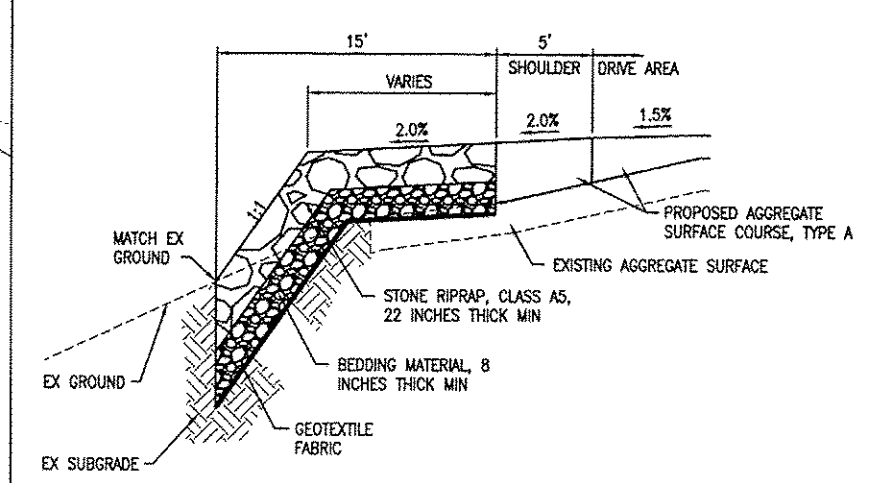
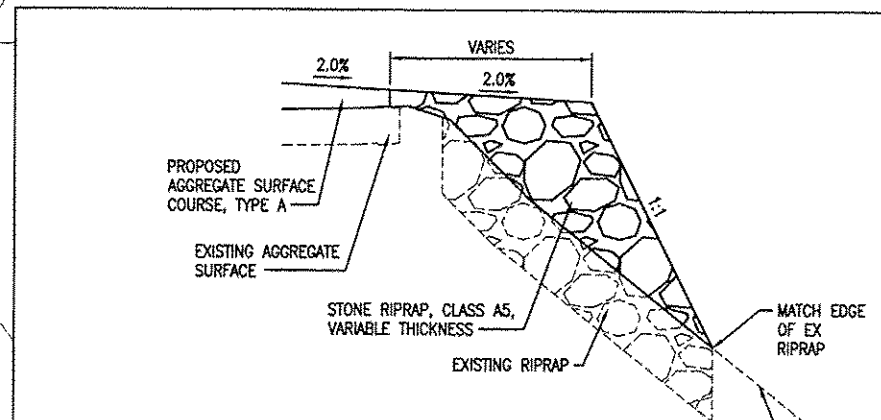
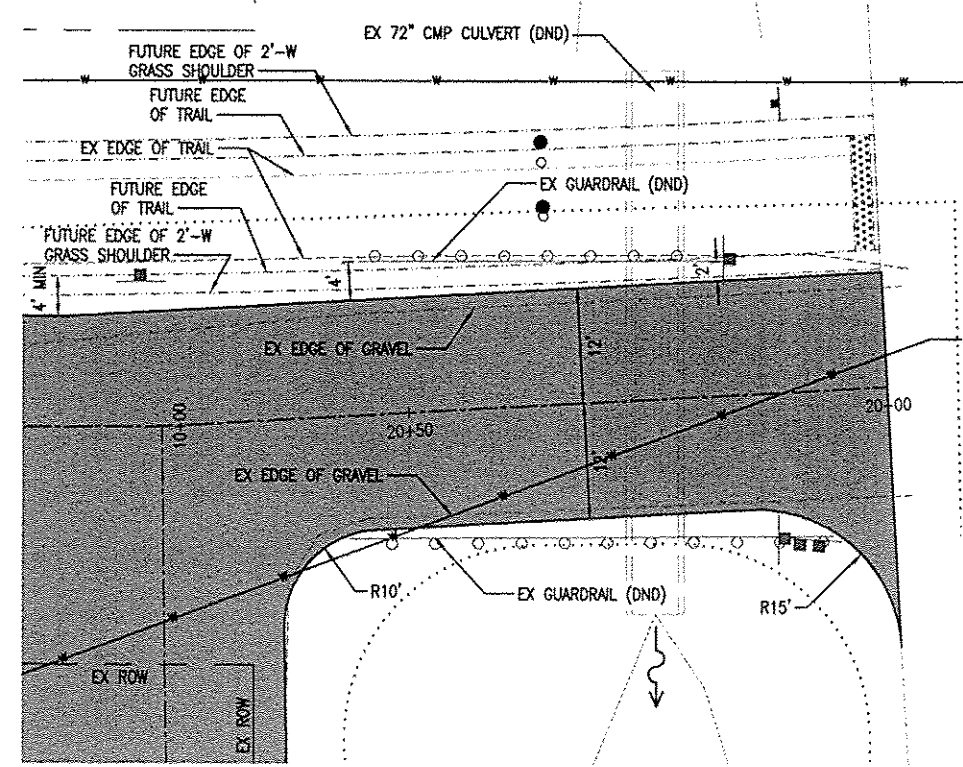
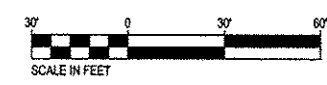
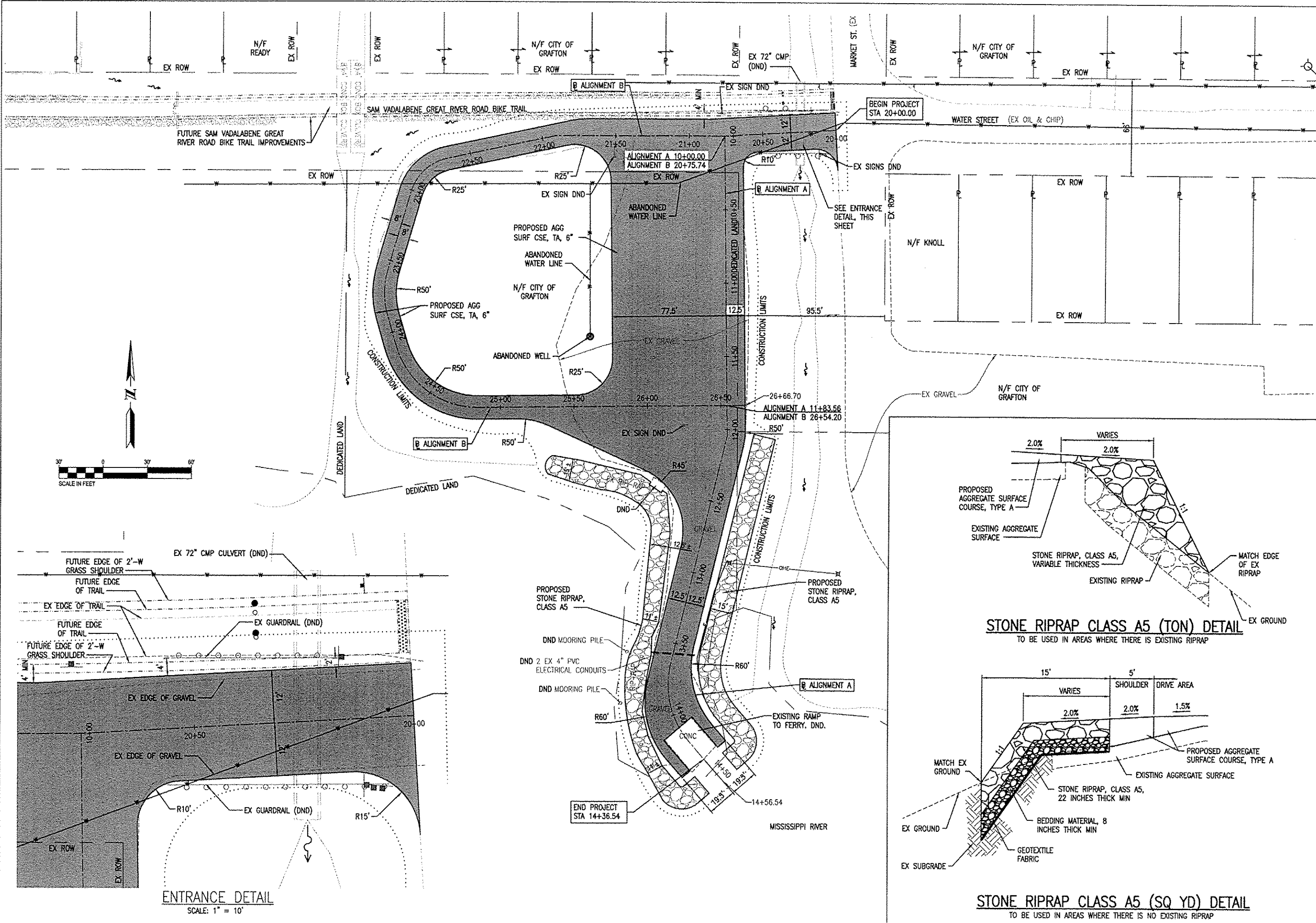
CITY OF GRAFTON  
 FERRY BOAT LANDING IMPROVEMENTS  
 SECTION 11-00018-00-RS CONTRACT NO. 97544

**JUNEAU**  
 ENGINEERING & LAND SURVEYING  
 230 N. Fourth Street, Suite 200  
 St. Louis, MO 63102  
 314-241-4444 F. 314-956-1931

2100 Shaw Street, P.O. Box 1325  
 Grafton, IL 62440  
 618-877-1400 F. 618-833-9541  
 Professional Design Firm License No. 04-00289

DESIGNED BY	RAK/AME	JOB NO.	E118008
DRAWN BY	AME/RAK	SHEET NO.	5
CHECKED BY	RAK	OF	15
DATE	Mar. 5, 2013		

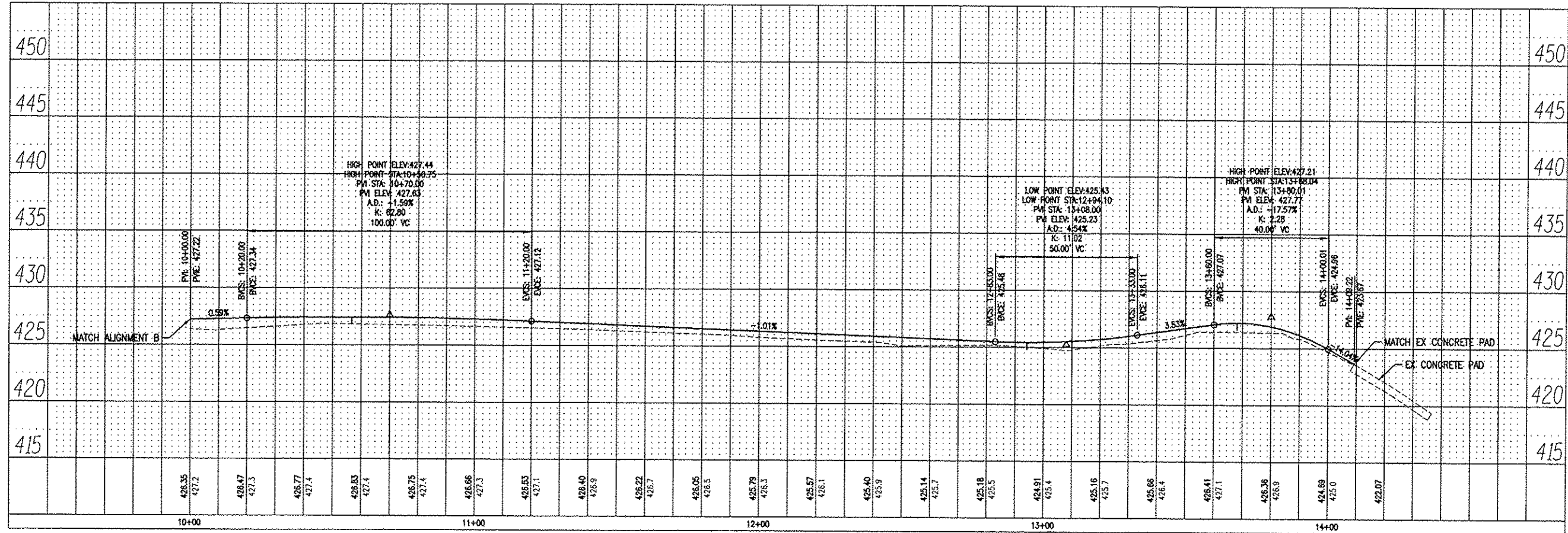
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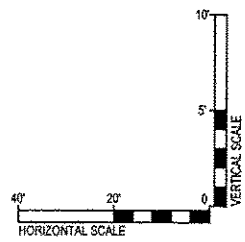
REVISIONS	
31/2013	PRELIMINARY REVIEW
<b>CITY OF GRAFTON</b> <b>FERRY BOAT LANDING IMPROVEMENTS</b>	
SECTION 11-00018-00-RS	CONTRACT NO. 97544
<b>JUNEAU</b> <b>ENGINEERING &amp; LAND SURVEYING</b> <small>2100 State Street, P.O. Box 1325          330 N. Fourth Street, Suite 200          Grafton, IL 62420          618-877-1400 F. 618-432-6541          618-850-9900 F. 618-450-0941          Professional Design Firm License No. 154-00338</small>	
DESIGNED BY RAK/AME	JOB NO. E118008
DRAWN BY AME/RAK	SHEET NO. 6
CHECKED BY RAK	OF 15
DATE Mar. 5, 2013	



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ALIGNMENT A



REVISIONS	
3/12/2013	PRELIMINARY REVIEW

**CITY OF GRAFTON**  
**FERRY BOAT LANDING IMPROVEMENTS**

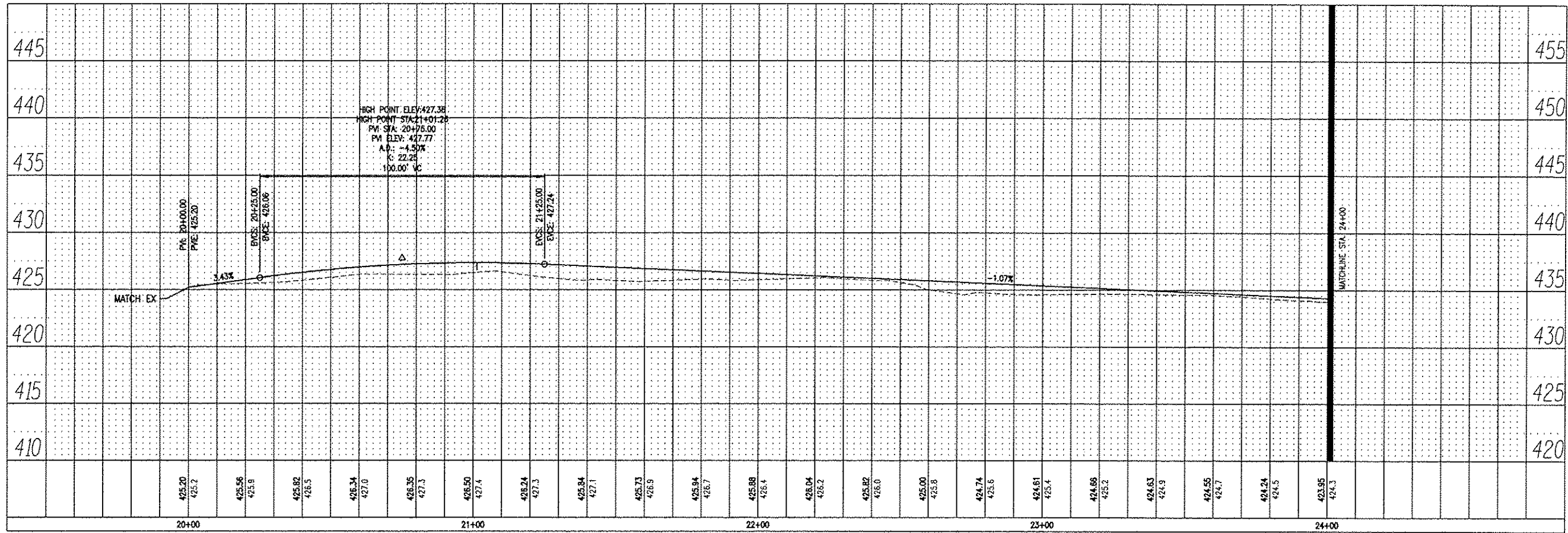
SECTION 11-00018-00-RS      CONTRACT NO. 97544

**JUNEAU**  
**ENGINEERING & LAND SURVEYING**  
 2108 State Street, P.O. Box 1328  
 150 North Riverside Drive  
 918-877-1100 F. 918-452-6541  
 918-658-0001 F. 918-658-0941  
 Professional Design Firm License No. 58,02338

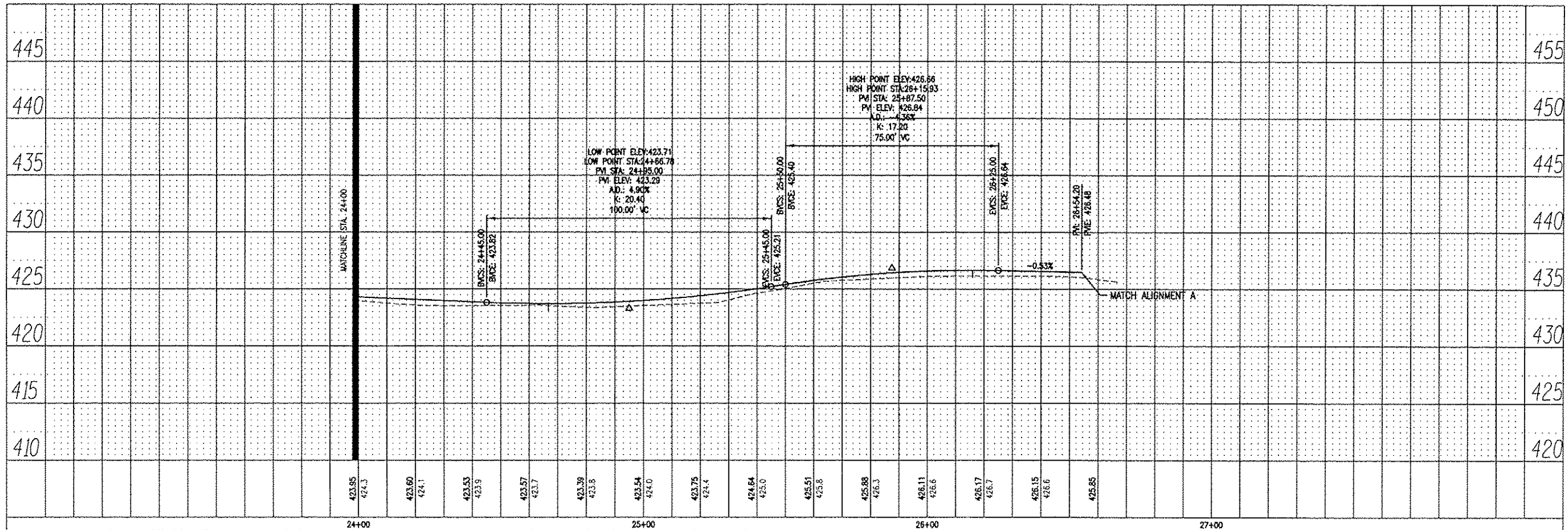
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DRAWN BY AMERAK	SHEET NO. 7
CHECKED BY RAK	OF 15
DATE Mar. 5, 2013	

PROFILE ALIGNMENT A

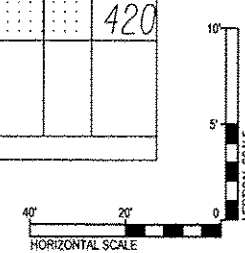
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ALIGNMENT B



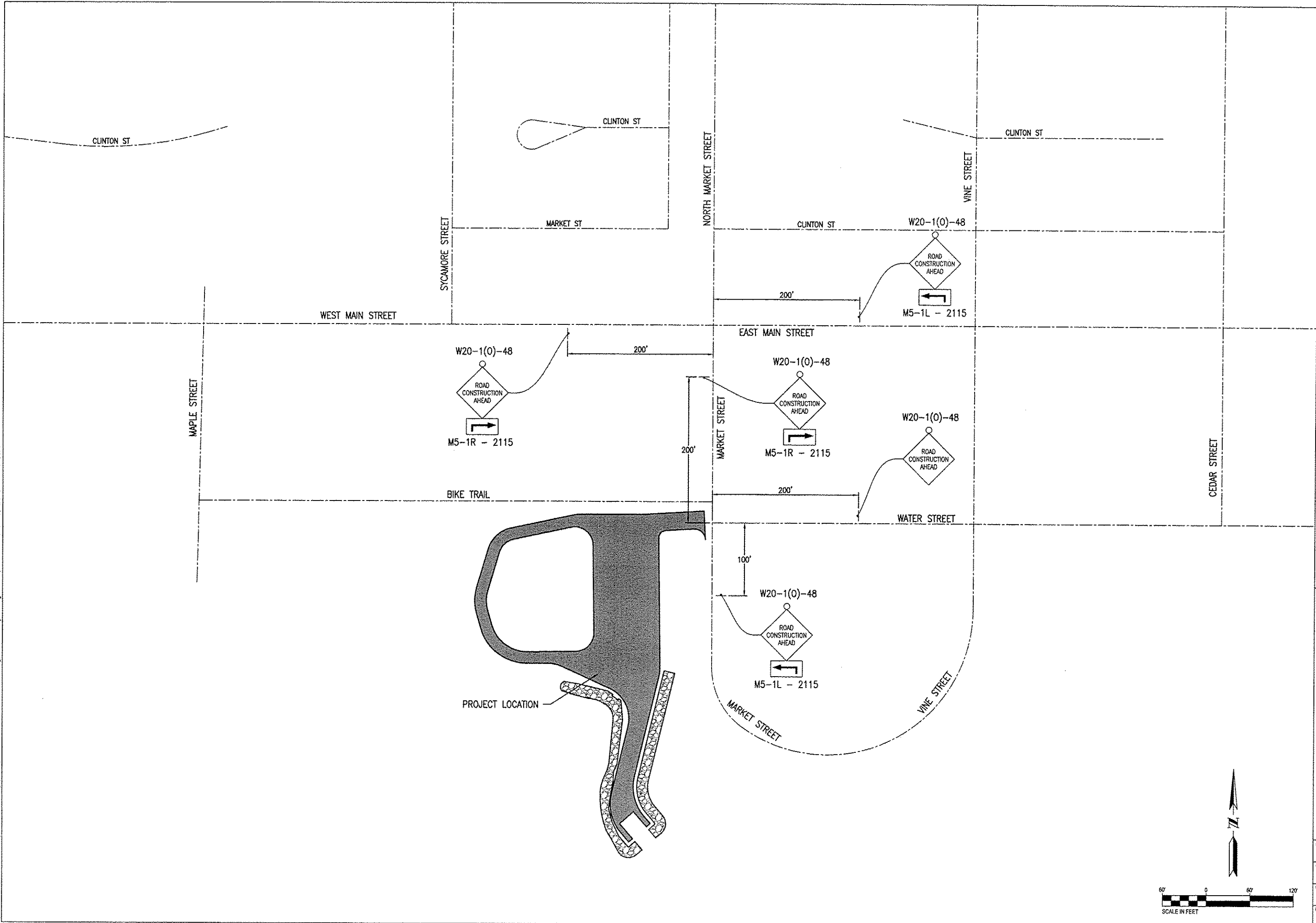
ALIGNMENT B



<p><b>JUNEAU</b> ENGINEERING &amp; LAND SURVEYING 300 N. Fourth Street, Suite 200 St. Louis, MO 63102 618-999-0500 F. 618-999-0841 Professional Design Firm License No. 14-00330</p>		<p>CITY OF GRAFTON FERRY BOAT LANDING IMPROVEMENTS</p>	
<p>DESIGNED BY: RAK/AME DRAWN BY: AME/RAK CHECKED BY: RAK DATE: Mar. 5, 2013</p>	<p>JOB NO.: E118008 SHEET NO.: 8 OF: 15</p>	<p>REVISIONS 3/17/2013 PRELIMINARY REVIEW</p>	<p>SECTION 11-00018-00-RS CONTRACT NO. 97544</p>



P:\Grafton\E118008 Ferry Boat Landing\DWG\E-118008-Traffic Control.dwg, Plotted By: angelmann, Plotted: Dec 10, 2013 11:48am



REVISIONS	
3/1/2013	PRELIMINARY REVIEW

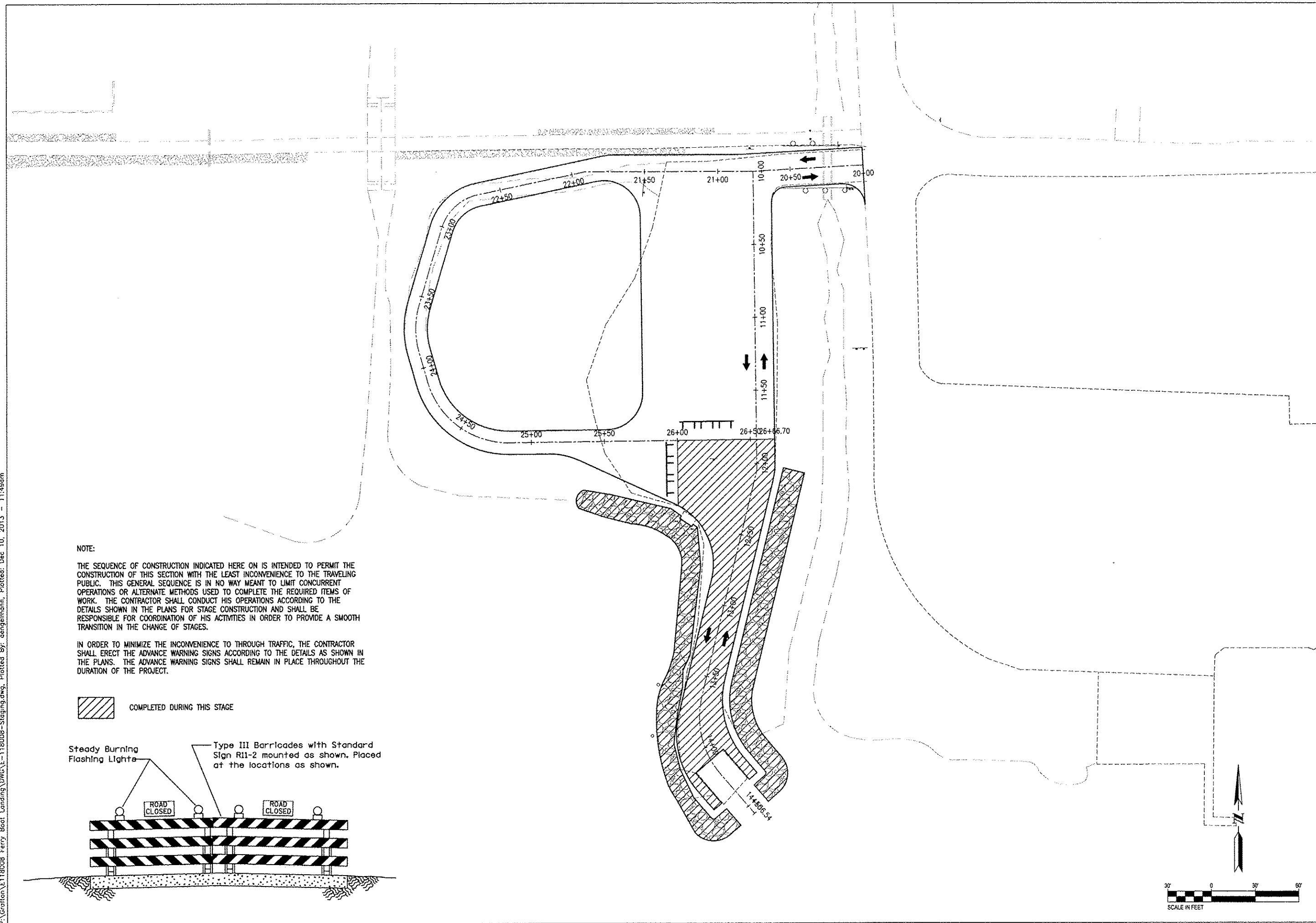
CITY OF GRAFTON  
 FERRY BOAT LANDING IMPROVEMENTS

SECTION 11-00018-00-RS      CONTRACT NO. 97544

**JUNEAU**  
 ENGINEERING & LAND SURVEYING  
 330 N. Fourth Street, Suite 200  
 Grafton, NH 03044  
 603-877-1400 F. 603-433-5541  
 603-859-2007 F. 603-859-0941  
 Professional Design Firm License No. 19402238

DESIGNED BY RAV/AME	JOB NO. E118008
DRAWN BY AME/RAK	SHEET NO. 9
CHECKED BY RAK	OF 15
DATE Mar. 5, 2013	

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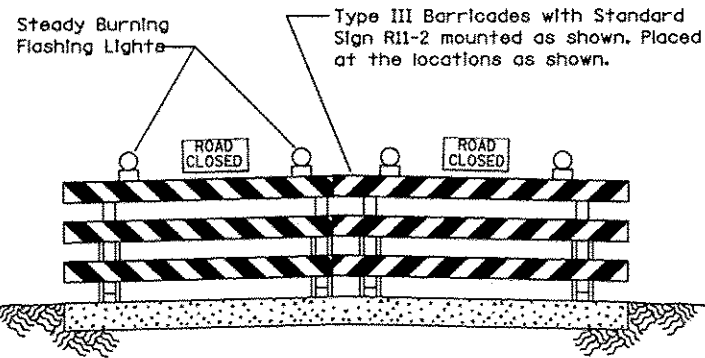


**NOTE:**

THE SEQUENCE OF CONSTRUCTION INDICATED HERE ON IS INTENDED TO PERMIT THE CONSTRUCTION OF THIS SECTION WITH THE LEAST INCONVENIENCE TO THE TRAVELING PUBLIC. THIS GENERAL SEQUENCE IS IN NO WAY MEANT TO LIMIT CONCURRENT OPERATIONS OR ALTERNATE METHODS USED TO COMPLETE THE REQUIRED ITEMS OF WORK. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS ACCORDING TO THE DETAILS SHOWN IN THE PLANS FOR STAGE CONSTRUCTION AND SHALL BE RESPONSIBLE FOR COORDINATION OF HIS ACTIVITIES IN ORDER TO PROVIDE A SMOOTH TRANSITION IN THE CHANGE OF STAGES.

IN ORDER TO MINIMIZE THE INCONVENIENCE TO THROUGH TRAFFIC, THE CONTRACTOR SHALL ERECT THE ADVANCE WARNING SIGNS ACCORDING TO THE DETAILS AS SHOWN IN THE PLANS. THE ADVANCE WARNING SIGNS SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT.

 COMPLETED DURING THIS STAGE



REVISIONS	
3/1/2013	PRELIMINARY REVIEW

**CITY OF GRAFTON**  
**FERRY BOAT LANDING IMPROVEMENTS**

SECTION 11-00018-00-RS      CONTRACT NO. 97544

**JUNEAU**  
**ENGINEERING & LAND SURVEYING**

2100 South Street, P.O. Box 1325  
 Granite City, IL 62041  
 618-877-1400 F. 618-432-5541

330 N. Fourth Street, Suite 200  
 St. Louis, MO 63102  
 314-241-4444 F. 314-999-1311

Professional Design Firm License No. 184-00228

DESIGNED BY RAK/AME	JOB NO. E118008
DRAWN BY AME/RAK	SHEET NO. 10
CHECKED BY RAK	OF 15
DATE Mar. 5, 2013	

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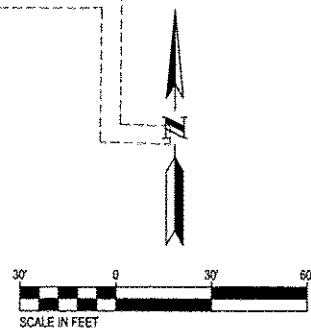
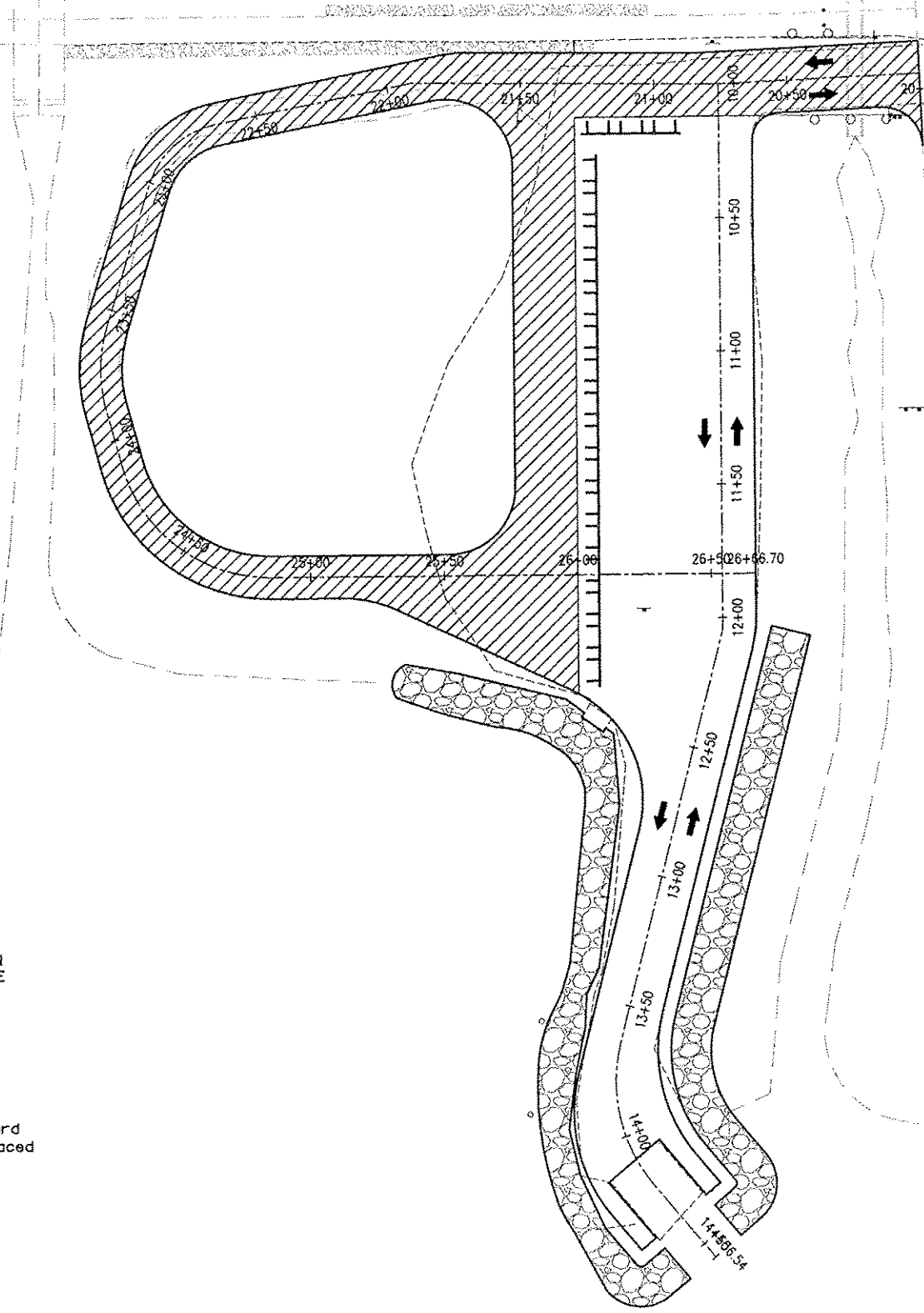
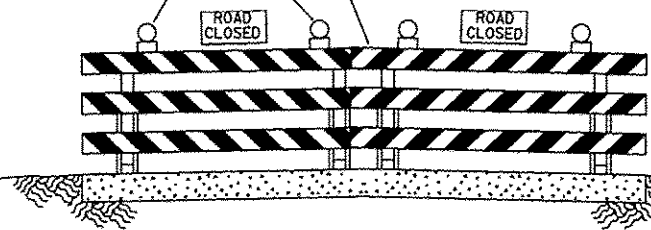
**NOTE:**

THE SEQUENCE OF CONSTRUCTION INDICATED HERE ON IS INTENDED TO PERMIT THE CONSTRUCTION OF THIS SECTION WITH THE LEAST INCONVENIENCE TO THE TRAVELING PUBLIC. THIS GENERAL SEQUENCE IS IN NO WAY MEANT TO LIMIT CONCURRENT OPERATIONS OR ALTERNATE METHODS USED TO COMPLETE THE REQUIRED ITEMS OF WORK. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS ACCORDING TO THE DETAILS SHOWN IN THE PLANS FOR STAGE CONSTRUCTION AND SHALL BE RESPONSIBLE FOR COORDINATION OF HIS ACTIVITIES IN ORDER TO PROVIDE A SMOOTH TRANSITION IN THE CHANGE OF STAGES.

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 COMPLETED DURING THIS STAGE

Steady Burning Flashing Lights  
Type III Barricades with Standard Sign R11-2 mounted as shown. Placed at the locations as shown.



REVISIONS	
3/12/2013	PRELIMINARY REVIEW

**CITY OF GRAFTON**  
**FERRY BOAT LANDING IMPROVEMENTS**  
SECTION 11-00018-00-RS      CONTRACT NO. 97544

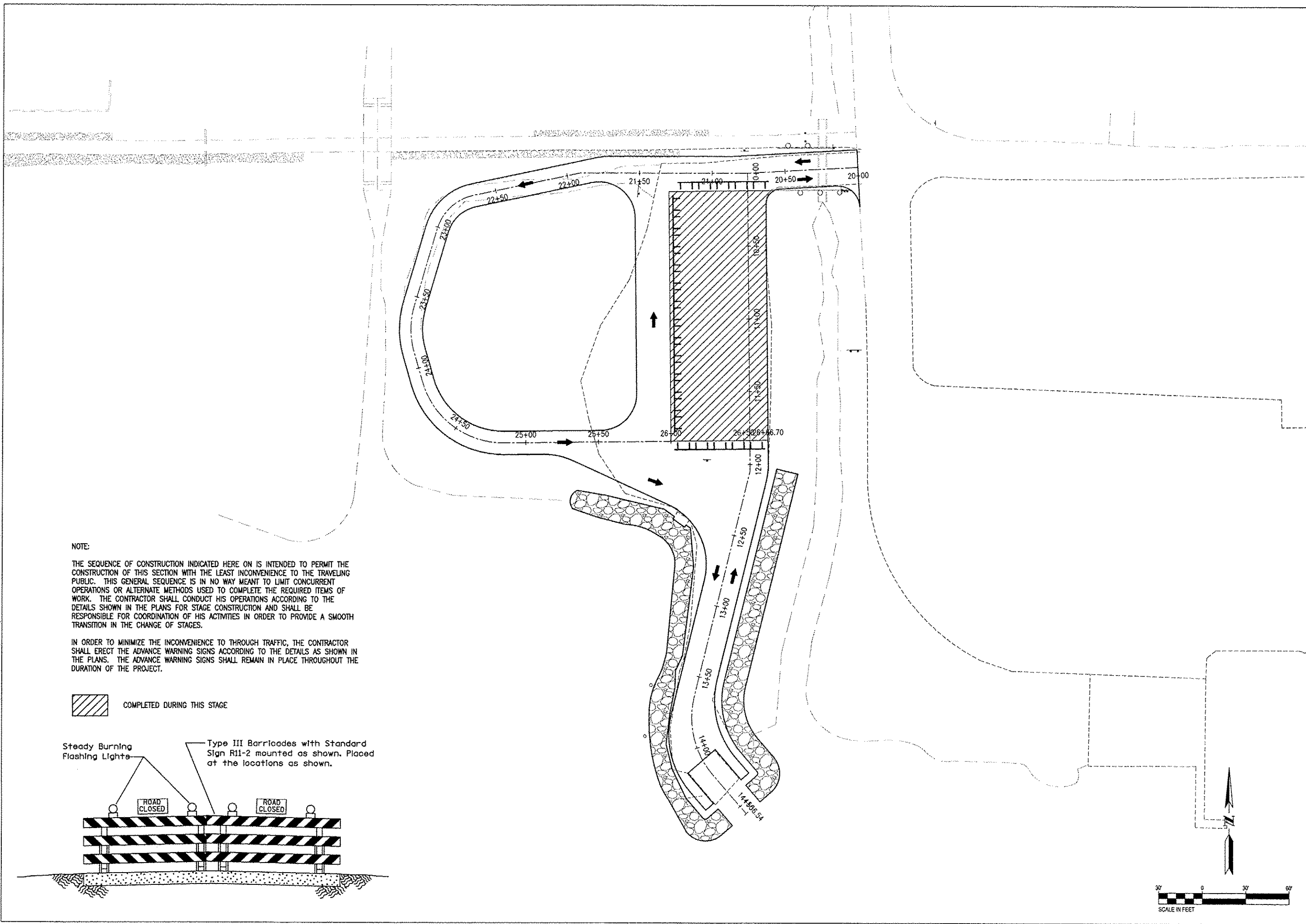
**JUNEAU**  
ENGINEERING & LAND SURVEYING  
100 North Research Drive  
Grafton City, E. 02033  
618-877-1400 F. 618-435-5541  
Professional Design Firm License No. 13422388

2109 State Street, P.O. Box 1235  
Grafton City, E. 02040  
618-877-1400 F. 618-435-5541  
Professional Design Firm License No. 13422388

DESIGNED BY	JOB NO.
RAKAME	E118008
DRAWN BY	SHEET NO.
AMERAK	11
CHECKED BY	OF
RAK	15
DATE	
Mar. 5, 2013	

STAGE 2 CONSTRUCTION

P:\Craffon\Ferry Boat Landing\DWG\E-118008- staging.dwg, Plotted By: aengelmann, Plotted: Dec 10, 2013 - 11:52am



**NOTE:**

THE SEQUENCE OF CONSTRUCTION INDICATED HERE ON IS INTENDED TO PERMIT THE CONSTRUCTION OF THIS SECTION WITH THE LEAST INCONVENIENCE TO THE TRAVELING PUBLIC. THIS GENERAL SEQUENCE IS IN NO WAY MEANT TO LIMIT CONCURRENT OPERATIONS OR ALTERNATE METHODS USED TO COMPLETE THE REQUIRED ITEMS OF WORK. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS ACCORDING TO THE DETAILS SHOWN IN THE PLANS FOR STAGE CONSTRUCTION AND SHALL BE RESPONSIBLE FOR COORDINATION OF HIS ACTIVITIES IN ORDER TO PROVIDE A SMOOTH TRANSITION IN THE CHANGE OF STAGES.

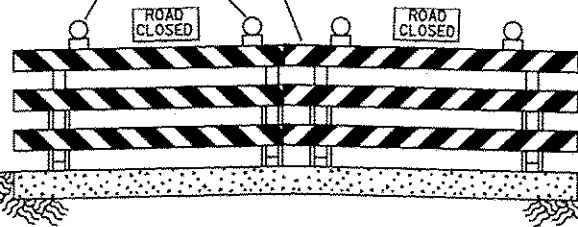
IN ORDER TO MINIMIZE THE INCONVENIENCE TO THROUGH TRAFFIC, THE CONTRACTOR SHALL ERECT THE ADVANCE WARNING SIGNS ACCORDING TO THE DETAILS AS SHOWN IN THE PLANS. THE ADVANCE WARNING SIGNS SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT.



COMPLETED DURING THIS STAGE

Steady Burning Flashing Lights

Type III Barricades with Standard Sign R11-2 mounted as shown. Placed at the locations as shown.

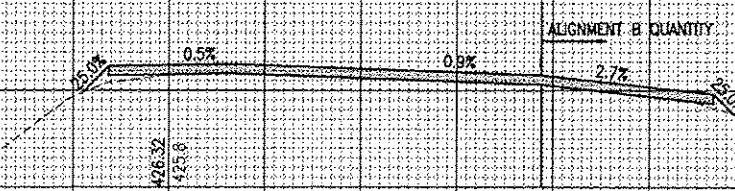


REVISIONS	
3/12/2013	PRELIMINARY REVIEW
CITY OF GRAFTON FERRY BOAT LANDING IMPROVEMENTS	
SECTION 11-00018-00-RS	CONTRACT NO. 97544
<b>JUNEAU</b> ENGINEERING & LAND SURVEYING 2100 State Street, P.O. Box 1320 Omaha, NE 68103 402-442-1100 F. 402-442-5541 Professional Design Firm License No. 114-020308	
DESIGNED BY	JOB NO.
RAK/AME	E118008
DRAWN BY	SHEET NO.
AME/RAK	12
CHECKED BY	OF
RAK	15
DATE	
Mar. 5, 2013	
STAGE 3 CONSTRUCTION	



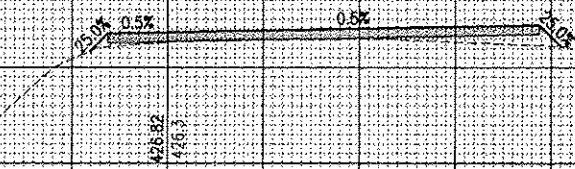
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EARTHWORK AT 12+00.00			
CUT/FILL	SECTION AREA (SF)	SECTION VOLUME (CY)	CUMM. VOLUME (CY)
CUT	0.0	0.0	0.0
FILL/AGG	25.67	79.7	484.8



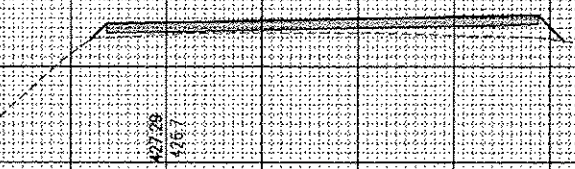
STA 12+00.00

EARTHWORK AT 11+50.00			
CUT/FILL	SECTION AREA (SF)	SECTION VOLUME (CY)	CUMM. VOLUME (CY)
CUT	0.0	0.0	0.0
FILL/AGG	60.45	125.1	405.1



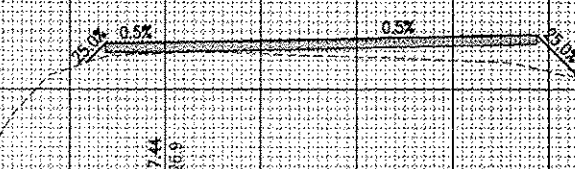
STA 11+50.00

EARTHWORK AT 11+00.00			
CUT/FILL	SECTION AREA (SF)	SECTION VOLUME (CY)	CUMM. VOLUME (CY)
CUT	0.0	0.0	0.0
FILL/AGG	74.67	153.8	280.0



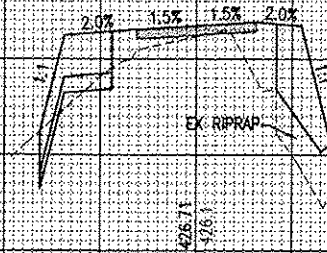
STA 11+00.00

EARTHWORK AT 10+50.00			
CUT/FILL	SECTION AREA (SF)	SECTION VOLUME (CY)	CUMM. VOLUME (CY)
CUT	0.0	0.0	0.0
FILL/AGG	91.4	126.2*	126.2



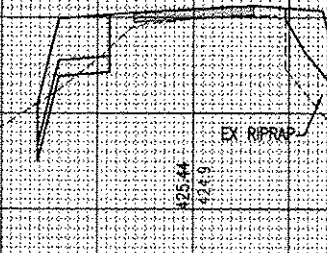
STA 10+50.00

EARTHWORK AT 13+50.00			
CUT/FILL	SECTION AREA (SF)	SECTION VOLUME (CY)	CUMM. VOLUME (CY)
CUT	9.25	17.3	58.6
FILL/AGG	45.35	63.2	683.4



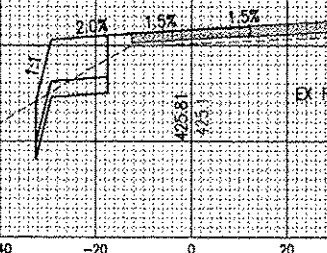
STA 13+50.00

EARTHWORK AT 13+00.00			
CUT/FILL	SECTION AREA (SF)	SECTION VOLUME (CY)	CUMM. VOLUME (CY)
CUT	9.39	25.0	41.3
FILL/AGG	22.95	66.4	620.2



STA 13+00.00

EARTHWORK AT 12+50.00			
CUT/FILL	SECTION AREA (SF)	SECTION VOLUME (CY)	CUMM. VOLUME (CY)
CUT	17.58	16.3	16.3
FILL/AGG	48.80	69.0	553.8



STA 12+50.00

ALIGNMENT A

REVISIONS	
3/1/2013	PRELIMINARY REVIEW

CITY OF GRAFTON  
**FERRY BOAT LANDING IMPROVEMENTS**  
 SECTION 11-00018-00-RS  
 CONTRACT NO. 97544

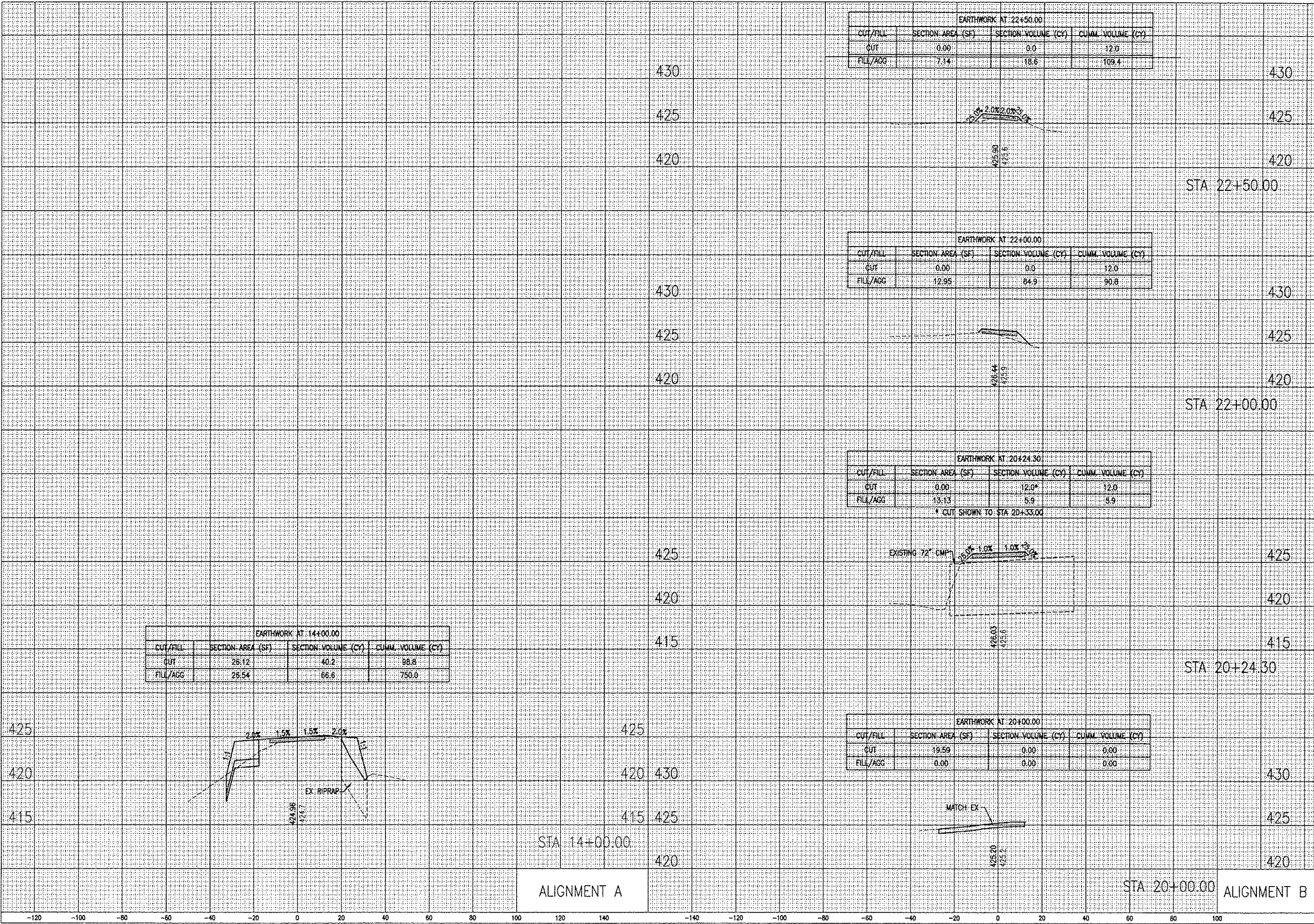
**JUNEAU**  
 ENGINEERING & LAND SURVEYING  
 109 North Research Drive  
 Grafton, VA 22625  
 540-371-1400 F. 540-371-1401  
 Professional Design Firm License No. 1402038

3204 Fourth Street, Suite 200  
 St. Louis, MO 63102  
 314-241-4444 F. 314-695-1331

DESIGNED BY	RAKAME	JOB NO.	E118008
DRAWN BY	AMDRAK	SHEET NO.	13
CHECKED BY	RAK	OF	15
DATE	Mar. 5, 2013		



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EARTHWORK AT 14+00.00			
CUT/FILL	SECTION AREA (SF)	SECTION VOLUME (CY)	CUMM. VOLUME (CY)
CUT	26.12	40.2	98.8
FILL/AGG	26.54	66.6	750.0

EARTHWORK AT 22+00.00			
CUT/FILL	SECTION AREA (SF)	SECTION VOLUME (CY)	CUMM. VOLUME (CY)
CUT	0.00	0.0	12.0
FILL/AGG	12.95	84.9	90.8

EARTHWORK AT 20+24.30			
CUT/FILL	SECTION AREA (SF)	SECTION VOLUME (CY)	CUMM. VOLUME (CY)
CUT	0.00	12.0*	12.0
FILL/AGG	13.13	5.9	5.9

\* CUT SHOWN TO STA 20+33.00

EARTHWORK AT 20+00.00			
CUT/FILL	SECTION AREA (SF)	SECTION VOLUME (CY)	CUMM. VOLUME (CY)
CUT	19.59	0.00	0.00
FILL/AGG	0.00	0.00	0.00

EARTHWORK AT 22+50.00			
CUT/FILL	SECTION AREA (SF)	SECTION VOLUME (CY)	CUMM. VOLUME (CY)
CUT	0.00	0.0	12.0
FILL/AGG	7.14	18.6	109.4

REVISIONS	
DATE	DESCRIPTION
3/1/2013	PRELIMINARY REVIEW

**CITY OF GRAFTON**  
**FERRY BOAT LANDING IMPROVEMENTS**

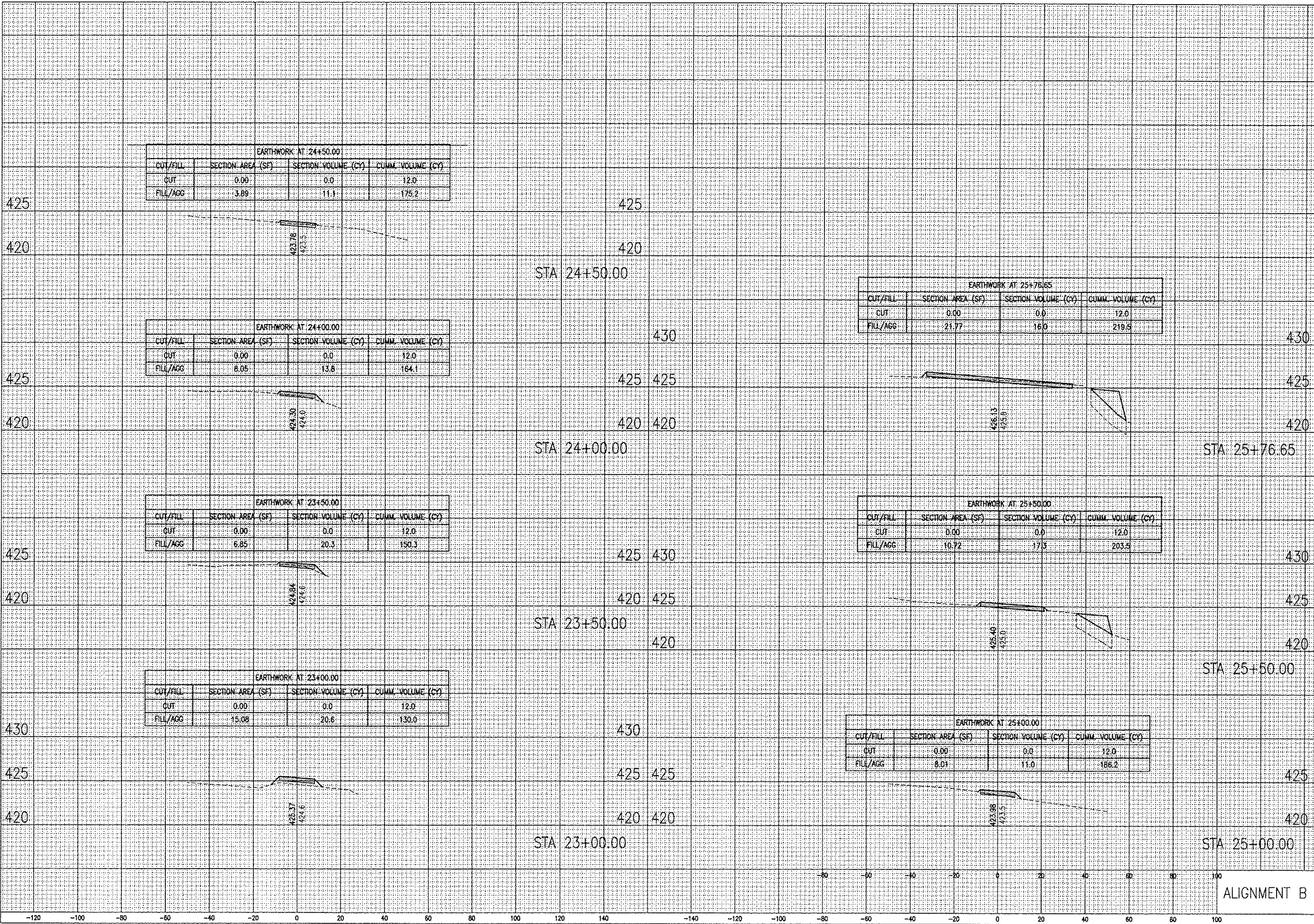
**JUNEAU**  
**ENGINEERING & LAND SURVEYING**  
 330 N. Fourth Street, Suite 200  
 Grafton, VT 05034  
 802-877-4400 F. 802-877-4444  
 31-211-4444 F. 314-808-1331

DESIGNED BY	RAK/AME	JOB NO.	E118008
DRAWN BY	AME/RAK	SHEET NO.	14
CHECKED BY	RAK	OF	15
DATE	Mar. 5, 2013		

SECTIONS STA 14+00.00 TO STA 22+50.00 SECTION 11-00018-00-RS CONTRACT NO. 97544



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DESIGNED BY	RAK/AME	JOB NO.	E118008
DRAWN BY	AME/RAK	SHEET NO.	15
CHECKED BY	RAK	OF	15
DATE	Mar. 5, 2013		

**JUNEAU**  
 ENGINEERING & LAND SURVEYING  
 2100 State Street, P.O. Box 1325  
 Gretna, VA, 23045  
 813-577-1400 F. 813-532-5411  
 Professional Design Firm License No. 18410358

330 N. Fourth Street, Suite 200  
 St. Louis, MO 63102  
 314-241-4444 F. 314-689-1331

CITY OF GRAFTON  
 FERRY BOAT LANDING IMPROVEMENTS  
 SECTION STA 23+00.00 TO STA 25+76.65  
 SECTION 11-00018-00-RS  
 CONTRACT NO. 97544

REVISIONS  
 PRELIMINARY REVIEW  
 3/17/2013