

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	13-09150-00-BT	LAKE	22	1
		ILLINOIS	CONTRACT NO. 61B57	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

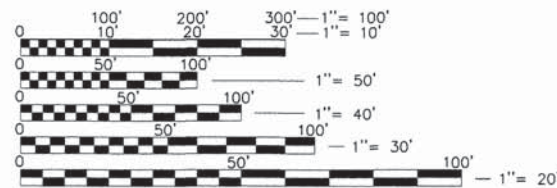
# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

LAKE VILLA TOWNSHIP  
FROM DERING PARK TO FAIRFIELD ROAD  
600' NORTH OF IL RTE 132  
BIKE/PED PATH

SECTION: 13-09150-00-BT  
PROJECT: SRTS - 4009 (285)  
LAKE VILLA TOWNSHIP  
LAKE COUNTY  
JOB NO. C-91-227-14

FOR INDEX OF SHEETS, SEE SHEET NO. 2

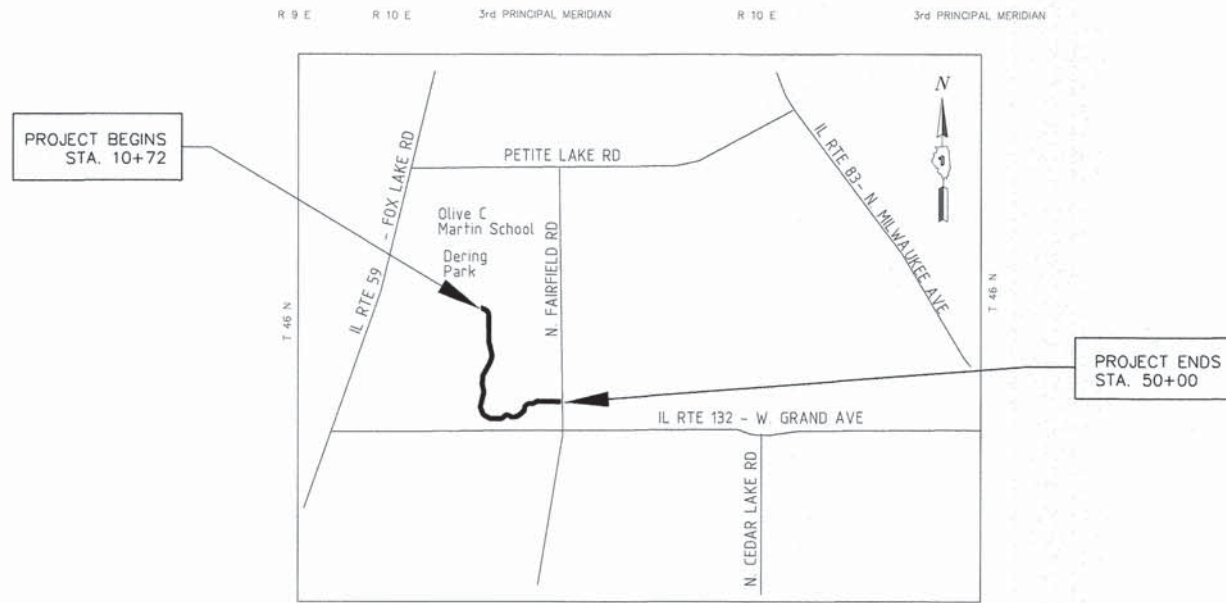
ROAD CLASSIFICATION = LOCAL ROADWAY - MULTI-USE TRAIL  
FAIRFIELD ROAD  
ADT = 3,802  
POSTED SPEED LIMIT = 45 MPH



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

CONTRACTOR IS RESPONSIBLE FOR CONTACTING J.U.L.I.E. AT 1-800-892-0123 AND MUST ACQUIRE A DIG NUMBER A MINIMUM OF 72 HOURS PRIOR TO ANY WORK BEING DONE.



**LOCATION MAP**  
(NOT TO SCALE)

PROJECT INFORMATION  
GROSS AND NET LENGTH = 3,928 FT = 0.74 MI

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED: MARCH 13, 2015  
*Dallas*  
LAKE VILLA TOWNSHIP - TOWNSHIP SUPERVISOR

PASSED: MARCH 25, 2015  
*Charles Christopher Hoyt*  
DISTRICT ONE ENGINEER-OF LOCAL ROADS AND STREETS

RELEASING FOR BID  
BASED ON LIMITED REVIEW: MARCH 25, 2015  
*Debra F. ...*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

PROFESSIONAL ENGINEER'S SIGNATURE & SEAL

*Thomas F. Miles* 3/16/15

Thomas F. Miles, P.E.  
EXPIRES: 11-30-15

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

CONTRACT NO: 61B57



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**GENERAL NOTES**

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2	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	TYPICAL SECTIONS
5	ALIGNMENT, TIES AND BENCHMARKS
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10-13	GRADING AND DRAINAGE PLAN
14-15	SEDIMENT AND EROSION CONTROL PLAN
16	DETAILS
17-22	CROSS SECTIONS

1. THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JAN. 1, 2012, THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JAN. 1, 2015, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" LATEST EDITION, PROJECT SPECIFICATIONS, ALL APPLICABLE REQUIREMENTS OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, MUNICIPALITY, ORDINANCES OF AUTHORITIES HAVING JURISDICTION AND ALL ADDENDA THERE SHALL GOVERN THIS WORK.
2. ANY REFERENCE TO "STANDARD SPECIFICATIONS" THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO MEAN ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.
3. ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEERS' LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THE PROJECT. EXISTING TREES ARE NOT SHOWN FROM STATION 19+00 TO STATION 50+00.
6. EASEMENTS FOR THE EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
7. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS, PROPERTY CORNERS, AND REFERENCE MARKERS UNTIL THE ENGINEER, OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.
8. WHENEVER, DURING CONSTRUCTION OPERATIONS, LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATION, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE TEMPORARY EROSION CONTROL PAY ITEM. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.
9. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING JULIE PRIOR TO THE START OF CONSTRUCTION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
11. THE VILLAGE OF LAKE VILLA SHALL BE NOTIFIED A MINIMUM 3 DAYS PRIOR TO THE START OF CONSTRUCTION AT 847-356-6100.
12. LAKE COUNTY FOREST PRESERVE SHALL BE NOTIFIED A MINIMUM 3 DAYS PRIOR TO THE START OF CONSTRUCTION AT 847-968-3277.
13. LAKE COUNTY DIVISION OF TRANSPORTATION SHALL BE NOTIFIED A MINIMUM OF 3 DAYS PRIOR TO THE START OF CONSTRUCTION AT 847-377-7400.
14. SEE TRAFFIC CONTROL HIGHWAY STANDARDS CONCERNING TRAFFIC CONTROL AND PROTECTION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SWEEPING AND CLEANING STREETS OF ANY DEBRIS AND MATERIAL THAT HAS ACCUMULATED AS A RESULT OF THE CONSTRUCTION ACTIVITY. A MECHANICAL SWEEPER, MECHANICALLY DRIVEN AIR AND HANDWORK WITH SHOVEL AND BROOM SHALL BE UTILIZED TO PROVIDE A CLEAN STREET FOR THE MOTORING PUBLIC.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
17. ONLY THOSE TREES DESIGNATED BY THE ENGINEER SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
18. THE ONLY CONSTRUCTION ACCESS FOR THE PROJECT IS FROM FAIRFIELD ROAD IN THE LOCATION OF THE STABILIZED GRAVEL CONSTRUCTION ENTRANCE.
19. THE STABILIZED CONSTRUCTION ENTRANCE EXCAVATION, INSTALLATION, MAINTENANCE AND REMOVAL SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR STABILIZED CONSTRUCTION ENTRANCE.

**HIGHWAY STANDARDS:**

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
542401-01	METAL END SECTION FOR PIPE CULVERTS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701801-05	SIDEWALK CORNER OR SIDEWALK CLOSURE
701901-04	TRAFFIC CONTROL DEVICES

**LAKE COUNTY STORMWATER MANAGEMENT COMMISSION  
SOIL EROSION AND SEDIMENT CONTROL CONSTRUCTION NOTES**

- A. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- B. FOR THOSE DEVELOPMENTS THAT REQUIRE A DESIGNATED EROSION CONTROL INSPECTOR (DECI), INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
  - UPON COMPLETION OF SEDIMENT AND RUNOFF CONTROL MEASURES (INCLUDING PERIMETER CONTROLS AND DIVERSIONS), PRIOR TO PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING.
  - AFTER EVERY SEVEN (7) CALENDAR DAYS OR STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- C. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- D. A STABILIZED MAT OF CRUSHED STONE MEETING IDOT GRADATION CA-1 UNDERLAIN WITH FILTER FABRIC AND IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL, OR OTHER APPROPRIATE MEASURE(S) AS APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- E. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN.
- F. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.
- G. ALL STOCKPILES SHALL HAVE APPROPRIATE MEASURES TO PREVENT EROSION. STOCKPILES SHALL NOT BE PLACED IN FLOOD PRONE AREAS OR WETLANDS AND DESIGNATED BUFFERS.
- H. SLOPES STEEPER THAN 3H:1V SHALL BE STABILIZED WITH APPROPRIATE MEASURES AS APPROVED BY THE ENFORCEMENT OFFICER.
- I. APPROPRIATE EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN THE NORMAL WATER LEVEL AND HIGH WATER LEVEL.
- J. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- K. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DISCHARGES SHALL BE ROUTED THROUGH AN APPROVED ANIONIC POLYMER DEWATERING SYSTEM OR A SIMILAR MEASURE AS APPROVED BY THE ENFORCEMENT OFFICER. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE ENFORCEMENT OFFICER, OR APPROVED REPRESENTATIVE, MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- L. IF INSTALLED SOIL EROSION AND SEDIMENT CONTROL MEASURES DO NOT MINIMIZE SEDIMENT LEAVING THE DEVELOPMENT SITE, ADDITIONAL MEASURES SUCH AS ANIONIC POLYMERS OR FILTRATION SYSTEMS MAY BE REQUIRED BY THE ENFORCEMENT OFFICER.
- M. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE PROPERTY OWNER SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.
- N. ALL TEMPORARY SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- O. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, ENFORCEMENT OFFICER, OR OTHER GOVERNING AGENCY.

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FILE NAME =	USER NAME =	DESIGNED - TFM	REVISED - 03/16/15	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS, GENERAL NOTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = N.T.S.	DRAWN - TFM	REVISED -			13-09150-00-BT	LAKE	22	2
	PLOT DATE = 03/16/15	CHECKED - TR	REVISED -			CONTRACT NO. 61B57			
		DATE - 12/05/14	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	

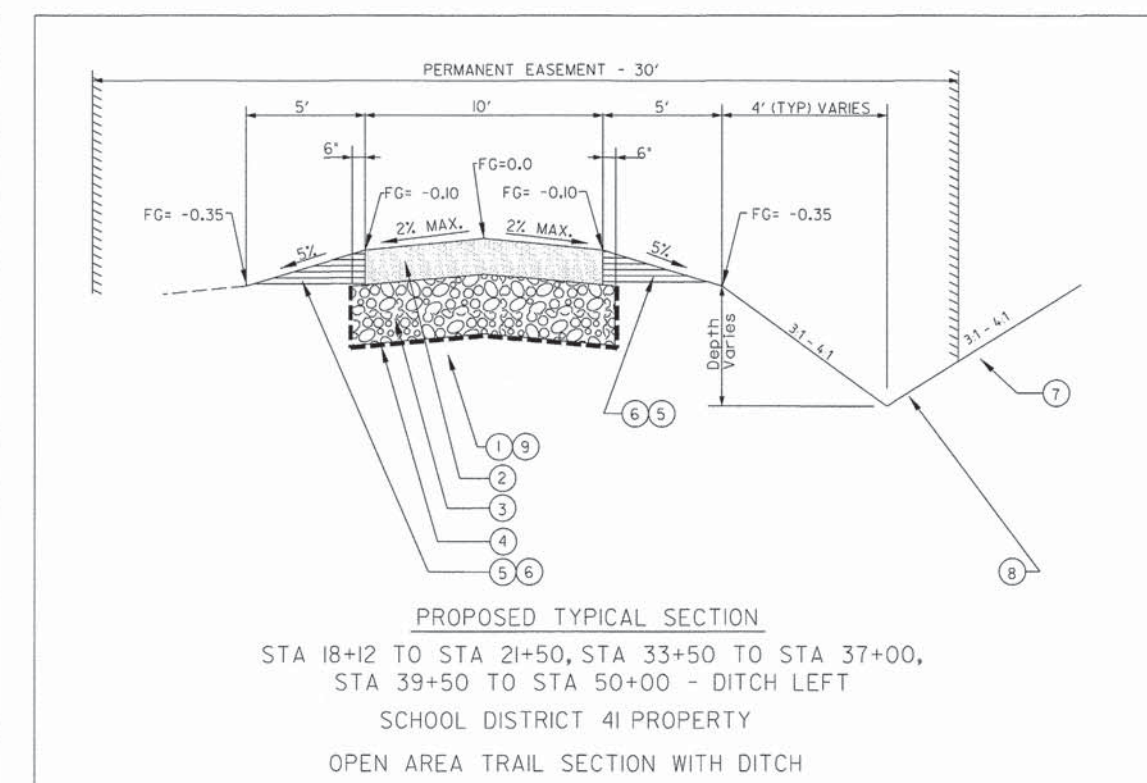
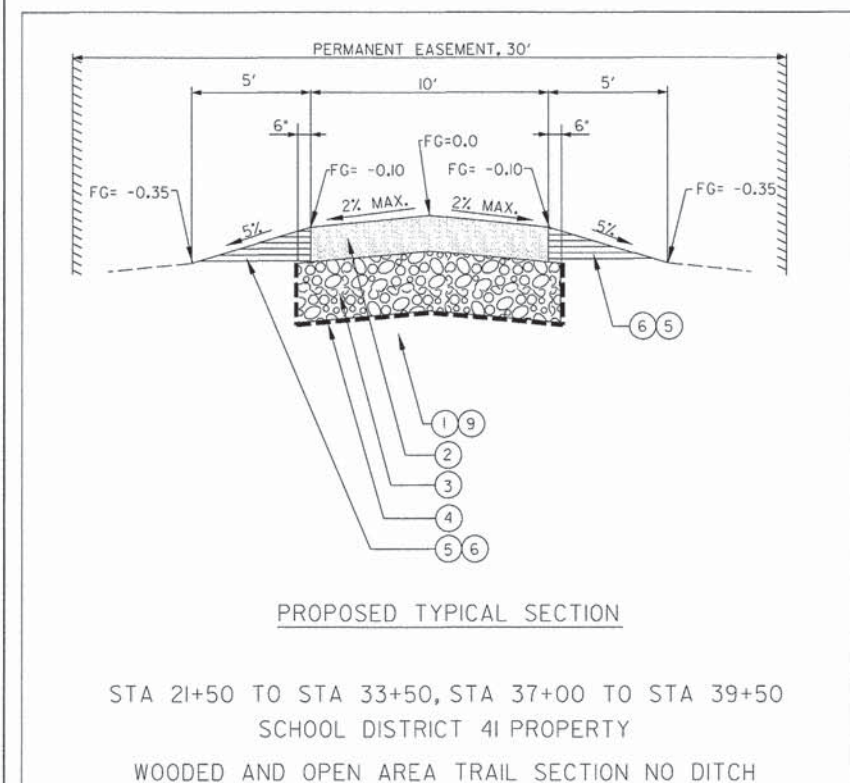
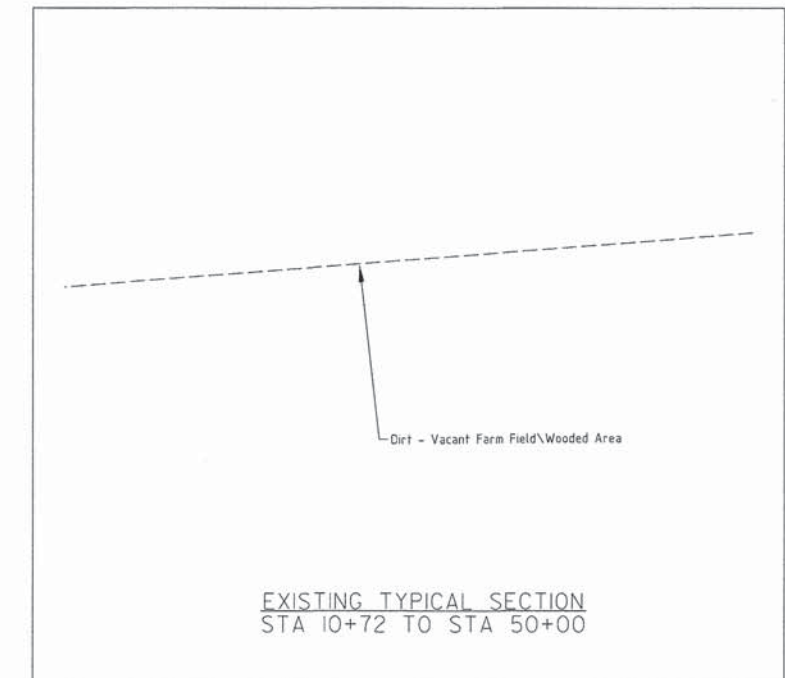
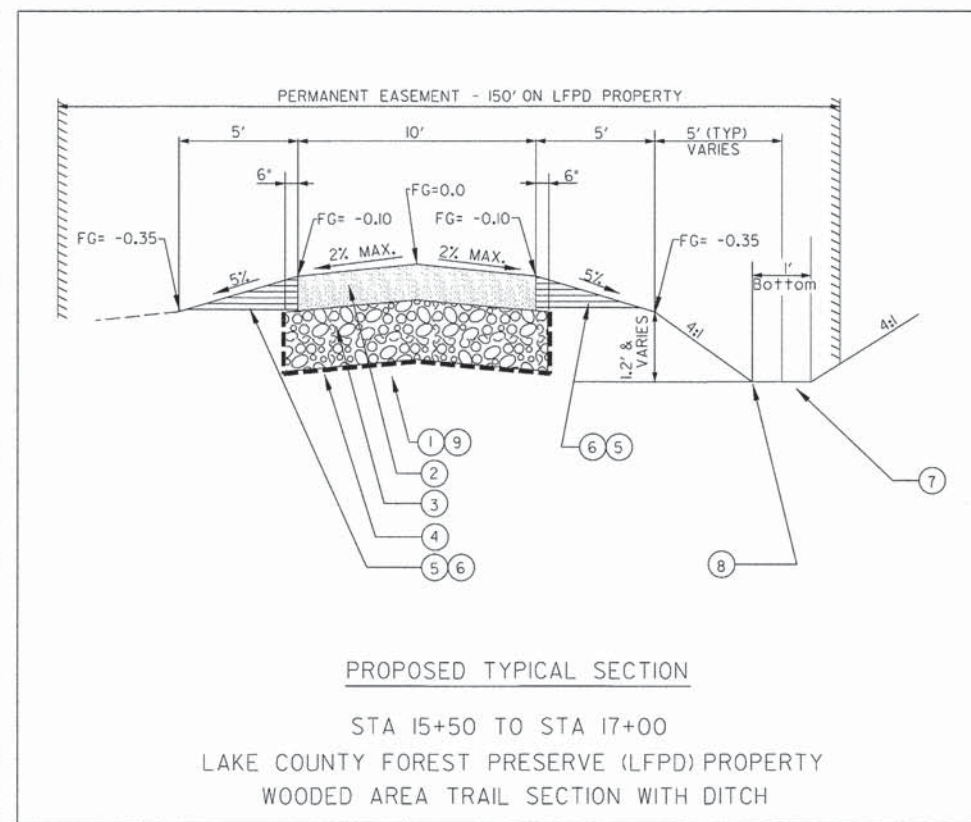
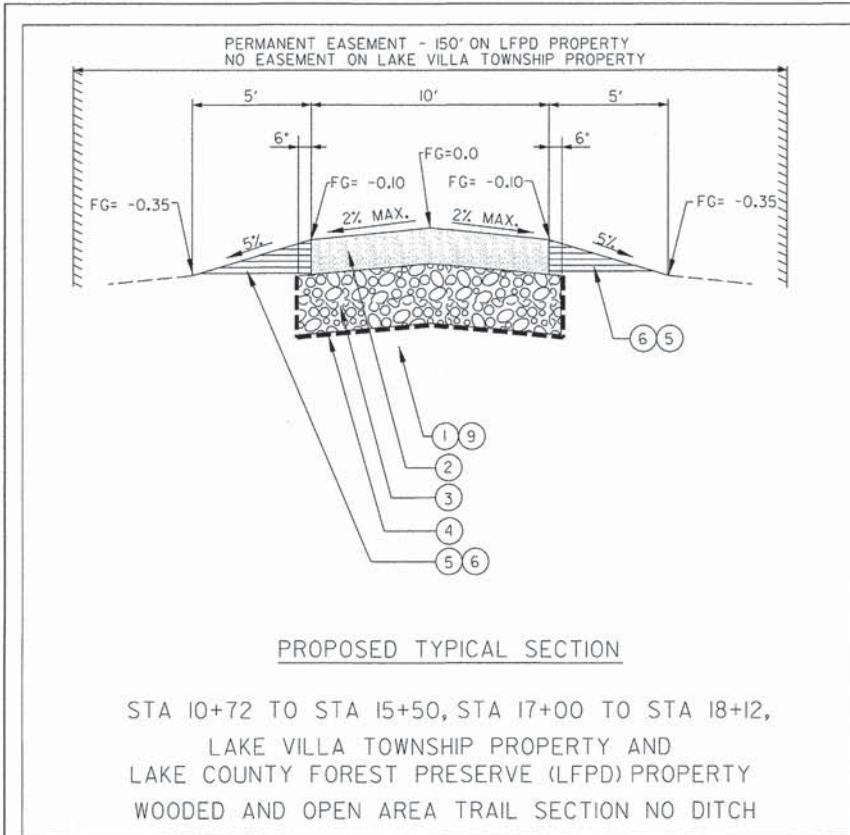


SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
					BICYCLE	PEDESTRIAN
					TRAILS 0028	
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	233		233
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	64		64
	20100500	TREE REMOVAL ACRES	ACRE	1.25		1.25
	20101000	TEMPORARY FENCE	FOOT	3710		3710
	20101100	TREE TRUNK PROTECTION	EACH	50		50
*	20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	25		25
*	20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	25		25
*	20101700	SUPPLEMENTAL WATERING	UNIT	1		1
	20200100	EARTH EXCAVATION	CU YD	2204		2204
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	745		745
	20400800	FURNISHED EXCAVATION	CU YD	575		575
	20800150	TRENCH BACKFILL	CU YD	25		25
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	2400		2400
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1170		1170
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	235		235
*	25000115	SEEDING, CLASS 1B	ACRE	2.5		2.5
*	25000312	SEEDING, CLASS 4A	ACRE	1.5		1.5
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	225		225
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	225		225
*	25100630	EROSION CONTROL BLANKET	SQ YD	18600		18600
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	325		325
	28000305	TEMPORARY DITCH CHECKS	FOOT	180		180
	28000400	PERIMETER EROSION BARRIER	FOOT	3680		3680
	28100105	STONE RIPRAP, CLASS A3	SQ YD	138		138
	28200200	FILTER FABRIC	SQ YD	138		138
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	745		745
	35101700	AGGREGATE BASE COURSE, TYPE B 5"	SQ YD	4365		4365
	542C0217	PIPE CULVERTS, CLASS C, TYPE 1 12"	FOOT	163		163
	542C0220	PIPE CULVERTS, CLASS C, TYPE 1 15"	FOOT	56		56
	542C0229	PIPE CULVERTS, CLASS C, TYPE 1 24"	FOOT	71		71
	54215547	METAL END SECTIONS 12"	EACH	10		10
	54215550	METAL END SECTIONS 15"	EACH	4		4
	54215559	METAL END SECTIONS 24"	EACH	4		4
	67100100	MOBILIZATION	L SUM	1		1
	70102620	TRAFFIC CONTROL AND PROTECTION STANDARD 701501	L SUM	1		1
	70102640	TRAFFIC CONTROL AND PROTECTION STANDARD 701801	L SUM	1		1
	X4020900	AGGREGATE SURFACE COURSE, TYPE B SPECIAL	SQ YD	4365		4365
	Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	920		920
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1
	Z0069200	STONE RETAINING WALL	SQ FT	152		152

EARTHWORK VOLUME TABLE					EARTHWORK VOLUME TABLE					EARTHWORK VOLUME TABLE				
Station	Cut Area (SF)	Cut Volume (CY)	Fill Area (SF)	Fill Volume (CY)	Station	Cut Area (SF)	Cut Volume (CY)	Fill Area (SF)	Fill Volume (CY)	Station	Cut Area (SF)	Cut Volume (CY)	Fill Area (SF)	Fill Volume (CY)
10+73	0.00													
		3.09	0.00	0.00	25+90	0.00	0.00	39.30	64.07	41+00	2.10	1.94	17.30	18.52
		11.48	0.00	0.00				12.00		41+50	0.00	11.28	23.30	37.59
11+00	6.30				26+50	0.00	3.52	12.04		41+80	20.30	17.50	39.67	22.67
		5.65	9.90	9.17	27+00	3.80	9.17	1.00	1.57	42+50	10.30	6.00	32.50	30.46
11+50	6.10				27+50	6.10	0.70	0.65	0.85	43+00	24.80	0.00	41.48	5.56
		0.00	0.00	22.41	28+00	6.80	11.94	0.00	0.46	43+50	20.00	0.90	27.31	0.83
12+00	0.00				28+50	7.50	0.50	1.02	1.02	44+00	9.50	1.30	19.17	2.04
		13.70	13.24		29+00	6.80	0.60	0.56	0.56	44+50	11.20	0.00	19.91	1.20
13+00	14.80				29+50	9.80	0.00	0.74	0.74	45+00	10.30	12.87	5.60	0.00
		21.76	0.00	31.48	30+00	5.10	11.11	5.09	5.09	45+50	3.60	10.28	34.81	5.19
13+50	8.70				30+50	6.90	28.43	4.35	4.35	46+00	7.50	2.78	43.00	34.81
		8.06	31.48		31+00	23.80	43.06	0.00	0.00	46+20	0.00	2.44	42.30	27.52
14+00	0.00				31+50	22.70	26.94	0.83	0.83	46+40	6.60	7.33	43.50	31.78
		0.00	34.00	45.00	32+00	6.40	6.94	0.90	5.93	47+00	0.00	2.50	35.10	87.33
14+50	0.00				32+50	1.10	1.20	5.50	58.45	47+50	2.70	6.02	13.00	44.54
		0.00	14.60	16.57	33+00	0.00	3.49	48.00	47.07	48+00	3.80	11.39	9.30	24.44
15+00	0.00				33+50	4.60	46.76	29.17	29.17	48+50	8.50	18.89	8.10	21.02
		16.30	3.06	30.06	34+00	45.90	17.50	31.85	31.85	49+00	11.90	29.63	1.50	8.89
15+50	17.60				34+50	38.40	16.90	44.40	44.40	49+50	20.10	42.78	0.00	1.39
		36.94	0.00	0.00	35+00	3.30	8.81	5.40	46.11	50+00	26.10	0.00		
16+00	22.30				35+50	7.30	26.39	5.00	5.00	TOTALS	2160	1930		
		22.31	9.63	9.63	36+00	21.20	28.98	0.00	0.00					
16+50	1.80				36+50	10.10	14.81	1.39	1.39					
		1.67	48.61	69.54	37+00	5.90	5.46	29.17	29.17					
17+00	0.00				37+50	0.00	0.00	30.00	78.70					
		0.00	42.10	53.89	38+00	0.00	55.00	89.91	89.91					
17+50	0.00				38+50	0.00	42.10	69.53	69.53					
		0.83	62.96	62.96	38+86	0.00	62.20	77.39	77.39					
18+00	0.00				39+50	2.70	3.10	4.17	4.17					
		30.37	46.57	46.57	40+00	8.10	15.93	3.80	3.80					
18+50	0.90				40+50	9.10	2.70							
		52.04	22.87	22.87										
19+00	31.90													
		17.20	13.63	13.63										
19+50	24.30													
		16.18	4.93	4.93										
19+76	9.30													
		24.22	0.00	0.00										
20+00	45.20													
		260.93	0.00	0.00										
20+50	236.60													
		375.37	0.00	0.00										
21+00	168.80													
		232.69	0.00	0.00										
21+50	82.50													
		76.39	2.78	2.78										
22+00	0.00													
		3.00	25.83	25.83										
22+50	0.00													
		0.00	58.17	58.17										
22+87	0.00													
		0.00	80.00	80.00										
23+00	0.00													
		1.57	58.06	58.06										
23+50	1.70													
		43.52	1.11	1.11										
24+00	45.30													
		58.70	0.00	0.00										
24+50	18.10													
		16.76	11.11	11.11										
25+00	0.00													
		0.00	12.00	12.00										
25+50	0.00													
		0.00	38.80	38.80										

FILE NAME =	USER NAME =	DESIGNED - TFM	REVISED - 03/16/15	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE - 12/05/14	REVISED -		ILLINOIS FED. AID PROJECT							





- 1 COMPACTED SUBGRADE
- 2 AGGREGATE SURFACE COURSE, TYPE B SPECIAL (3" THICKNESS)
- 3 AGGREGATE BASE COURSE, TYPE B, 5"
- 4 GEOTEXTILE FABRIC FOR GROUND STABILIZATION, WOVEN, ONLY WHEN REQUIRED
- 5 RESPREAD TOPSOIL/TOPSOIL FURNISH AND PLACE, 4"
- 6 SEEDING AND EROSION CONTROL BLANKET
- 7 ALL DITCHES AND SIDESLOPES SHALL BE PLANTED WITH IDOT SEED AND COVERED WITH A BIODEGRADABLE EROSION CONTROL BLANKET
- 8 RESPREAD TOPSOIL/TOPSOIL FURNISH AND PLACE, 4"
- 9 TOPSOIL EXCAVATION AND/OR UNSUITABLE EXCAVATION UNDER PROPOSED AGGREGATE BASE, AGGREGATE SUBGRADE IMPROVEMENT

FILE NAME =	USER NAME =	DESIGNED - TFM	REVISED - 03/16/15	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - TFM	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	13-09150-00-BT	LAKE	22	4
		CHECKED - TR	REVISED -		STA.	TO STA.	CONTRACT NO. 61B57			
		DATE - 12/05/14	REVISED -		ILLINOIS FED. AID PROJECT					

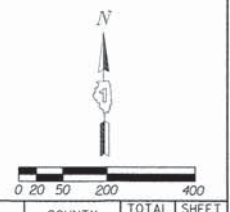




HORIZONTAL CURVE DATA		
PI=11+48.08 DELTA=44° 27' 49" R=80.00' T=32.7' L=62.08' E=6.43' P.C. STA. 11+5.38 P.T. STA. 11+77.46	PI=20+95.97 DELTA=10° 17' 08" R=100.00' T=9.00' L=17.90' E=0.40' P.C. STA. 20+86.97 P.T. STA. 21+04.87	PI=35+30.37 DELTA=29° 36' 56" R=95.00' T=25.11' L=49.10' E=3.26' P.C. STA. 35+05.26 P.T. STA. 35+54.36
PI=12+99.73 DELTA=2° 51' 42" R=300.00' T=76.35' L=119.70' E=6.07' P.C. STA. 12+23.38 P.T. STA. 13+43.08	PI=21+61.97 DELTA=21° 00' 18" R=100.00' T=18.54' L=36.66' E=1.70' P.C. STA. 21+43.25 P.T. STA. 21+79.91	PI=37+68.55 DELTA=53° 46' 51" R=105.00' T=53.25' L=98.56' E=12.73' P.C. STA. 37+15.3 P.T. STA. 38+13.86
PI=14+35.12 DELTA=09° 50' 40" R=300.00' T=25.84' L=51.55' E=1.11' P.C. STA. 14+09.28 P.T. STA. 14+60.83	PI=22+41.37 DELTA=9° 58' 40" R=100.00' T=8.73' L=17.42' E=1.70' P.C. STA. 22+32.64 P.T. STA. 22+50.06	PI=38+99.18 DELTA=93° 41' 41" R=80.00' T=85.32' L=130.81' E=36.96' P.C. STA. 38+13.86 P.T. STA. 39+44.67
PI=16+20.09 DELTA=56° 05' 13" R=125.00' T=66.59' L=122.36' E=16.63' P.C. STA. 15+53.50 P.T. STA. 16+75.86	PI=22+94.86 DELTA=35° 09' 21" R=80.00' T=25.34' L=49.08' E=3.92' P.C. STA. 22+69.52 P.T. STA. 23+18.60	PI=39+92.67 DELTA=49° 08' 19" R=105.00' T=48.00' L=90.05' E=10.45' P.C. STA. 39+44.67 P.T. STA. 40+34.72
PI=17+49.35 DELTA=46° 20' 24" R=80.00' T=34.24' L=64.70' E=7.02' P.C. STA. 17+15.11 P.T. STA. 17+79.81	PI=24+42.32 DELTA=24° 07' 39" R=100.00' T=21.37' L=42.16' E=2.26' P.C. STA. 24+20.95 P.T. STA. 24+63.06	PI=40+77.52 DELTA=20° 03' 22" R=95.00' T=16.80' L=33.27' E=1.47' P.C. STA. 40+60.72 P.T. STA. 40+93.97
PI=18+40.20 DELTA=10° 26' 16" R=200.00' T=18.26' L=36.43' E=0.83' P.C. STA. 18+21.94 P.T. STA. 18+58.37	PI=27+08.29 DELTA=53° 13' 32" R=80.00' T=40.08' L=74.31' E=9.48' P.C. STA. 26+74.06 P.T. STA. 27+48.37	PI=41+86.55 DELTA=15° 50' 25" R=95.00' T=13.21' L=26.34' E=0.91' P.C. STA. 41+73.34 P.T. STA. 41+99.60
PI=19+08.12 DELTA=21° 29' 45" R=80.00' T=15.18' L=30.01' E=1.43' P.C. STA. 18+93.29 P.T. STA. 19+23.30	PI=27+97.11 DELTA=33° 01' 03" R=80.00' T=23.71' L=46.10' E=3.44' P.C. STA. 27+73.40 P.T. STA. 28+19.50	PI=42+91.44 DELTA=38° 43' 26" R=95.00' T=33.38' L=64.21' E=5.69' P.C. STA. 42+58.06 P.T. STA. 43+22.27
PI=19+08.12 DELTA=21° 29' 45" R=80.00' T=15.18' L=30.01' E=1.43' P.C. STA. 18+93.29 P.T. STA. 19+23.30	PI=29+12.03 DELTA=27° 43' 24" R=80.00' T=19.74' L=38.70' E=2.40' P.C. STA. 28+92.29 P.T. STA. 29+30.99	PI=43+74.65 DELTA=43° 45' 23" R=80.00' T=32.12' L=61.09' E=6.21' P.C. STA. 43+42.53 P.T. STA. 44+03.62
PI=19+08.12 DELTA=21° 29' 45" R=80.00' T=15.18' L=30.01' E=1.43' P.C. STA. 18+93.29 P.T. STA. 19+23.30	PI=29+08.14 DELTA=29° 25' 29" R=100.00' T=26.26' L=51.35' E=3.39' P.C. STA. 29+53.88 P.T. STA. 30+05.23	PI=44+50.92 DELTA=39° 05' 36" R=80.00' T=28.40' L=54.58' E=4.89' P.C. STA. 44+22.52 P.T. STA. 44+77.10
PI=19+47.45 DELTA=29° 44' 21" R=80.00' T=21.24' L=41.42' E=2.77' P.C. STA. 19+26.21 P.T. STA. 19+67.63	PI=30+48.22 DELTA=17° 11' 05" R=100.00' T=15.11' L=29.99' E=1.14' P.C. STA. 30+33.11 P.T. STA. 30+63.10	PI=45+60.73 DELTA=34° 55' 05" R=95.00' T=29.88' L=57.90' E=4.59' P.C. STA. 45+30.85 P.T. STA. 45+88.75
PI=19+99.00 DELTA=25° 28' 17" R=100.00' T=22.60' L=44.45' E=2.52' P.C. STA. 19+76.40 P.T. STA. 20+20.85	PI=32+05.74 DELTA=34° 52' 35" R=95.00' T=29.84' L=57.85' E=4.58' P.C. STA. 31+75.9 P.T. STA. 32+33.75	PI=46+45.40 DELTA=36° 54' 36" R=105.00' T=35.04' L=67.64' E=5.69' P.C. STA. 46+10.36 P.T. STA. 46+78.00
PI=20+49.38 DELTA=22° 47' 56" R=100.00' T=20.16' L=39.79' E=2.01' P.C. STA. 20+29.22 P.T. STA. 20+69.01	PI=33+65.28 DELTA=37° 47' 50" R=95.00' T=33.38' L=64.20' E=5.56' P.C. STA. 33+31.9 P.T. STA. 33+96.1	

SOURCE BENCHMARK  
 LAKE COUNTY BENCHMARK RECOVERY SHEET  
 BENCHMARK DESIGNATION: I-12 AT LAKE  
 COUNTY PUBLIC WORKS DEPARTMENT  
 PETITE LAKE STATION  
 LAKE VILLA, IL  
 CHISELED SQUARE IN CONCRETE SLAB  
 OF MANHOLE LOCATED JUST NORTH  
 OF ENTRANCE DRIVE  
 ELEVATION = 765.54 NAVD88

SITE BENCHMARK  
 RAILROAD SPIKE IN THE NORTH  
 FACE OF POWER POLE AT THE  
 SOUTHWEST CORNER OF GRAND  
 AVENUE AND FAIRFIELD ROAD  
 ELEVATION = 807.72 NAVD88



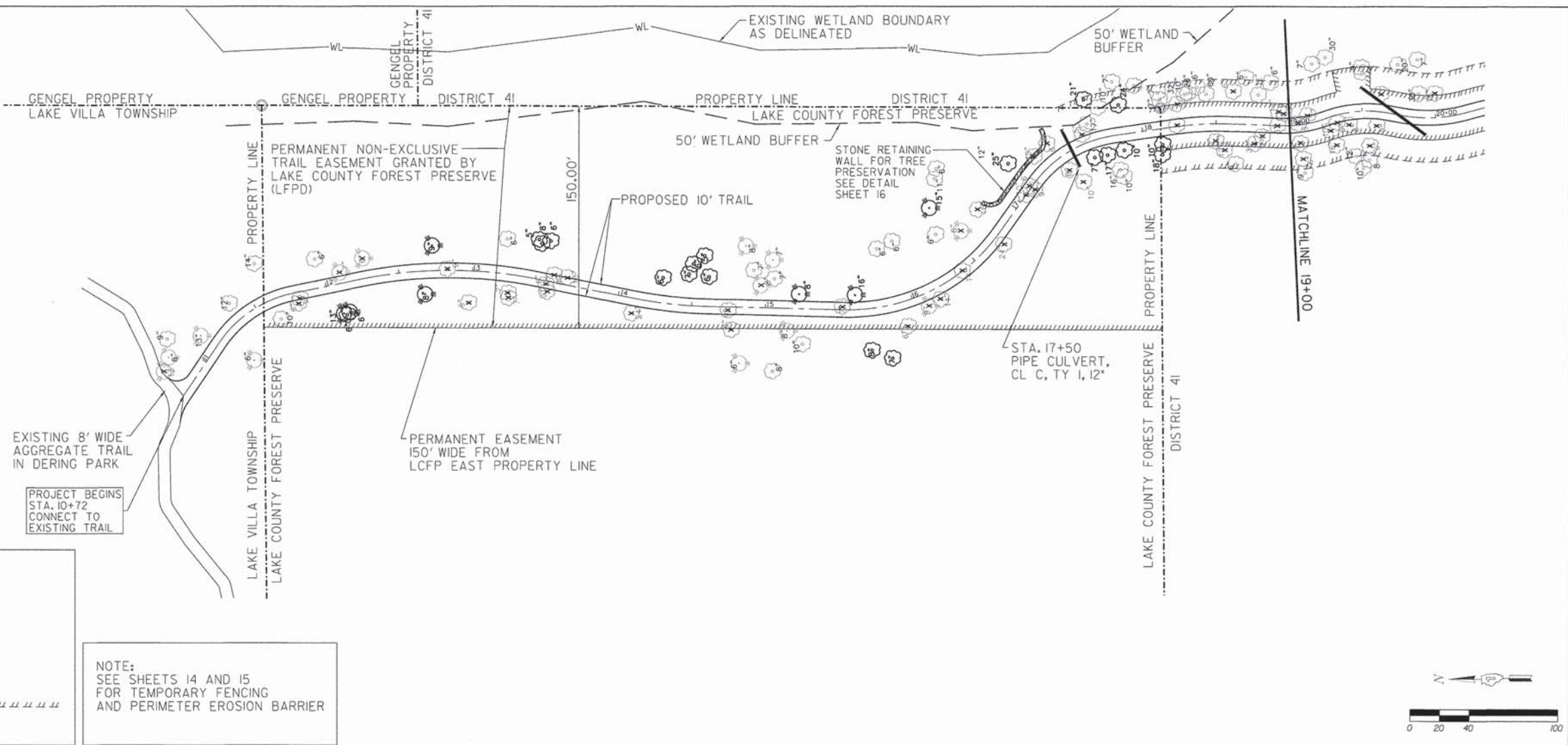
FILE NAME =	USER NAME =	DESIGNED - TFM	REVISED - 03/16/15	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT, TIES AND BENCHMARKS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - TFM	REVISED -			13-091500-BT	LAKE	22	5
		CHECKED - TR	REVISED -			CONTRACT NO. 61B57			
		PLOT DATE = 03/16/15	DATE - 12/05/14			ILLINOIS FED. AID PROJECT			
				SCALE: 1"=200'		SHEET NO. 1 OF 1 SHEETS		STA. 10+72 TO STA. 50+00	

P10-0050 5 Alignment Ties bms Sheet Final Plans March 16, 2015 dgm Model-1 3/12/2015 3:34:40 PM



**HORIZONTAL CURVE DATA**

PI=11+48.08 DELTA=44° 27'49" R=80.00' T=32.7' L=62.08' E=6.43' P.C. STA. 11+15.38 P.T. STA. 11+77.46	PI=17+49.35 DELTA=46° 20'24" R=80.00' T=34.24' L=64.70' E=7.02' P.C. STA. 17+15.11 P.T. STA. 17+79.81
PI=12+99.73 DELTA=2° 51'42" R=300.00' T=76.35' L=119.70' E=6.07' P.C. STA. 12+23.38 P.T. STA. 13+43.08	PI=18+40.20 DELTA=10° 26'16" R=200.00' T=18.26' L=36.43' E=0.83' P.C. STA. 18+21.94 P.T. STA. 18+58.37
PI=14+35.12 DELTA=09° 50'40" R=300.00' T=25.84' L=51.55' E=1.11' P.C. STA. 14+09.28 P.T. STA. 14+60.83	PI=19+08.12 DELTA=21° 29'45" R=80.00' T=15.18' L=30.01' E=1.43' P.C. STA. 18+93.29 P.T. STA. 19+23.30
PI=16+20.09 DELTA=56° 05'13" R=125.00' T=66.59' L=122.36' E=16.63' P.C. STA. 15+53.50 P.T. STA. 16+75.86	



EXISTING DECIDUOUS TREE 12"

EXISTING CONIFER TREE 8"

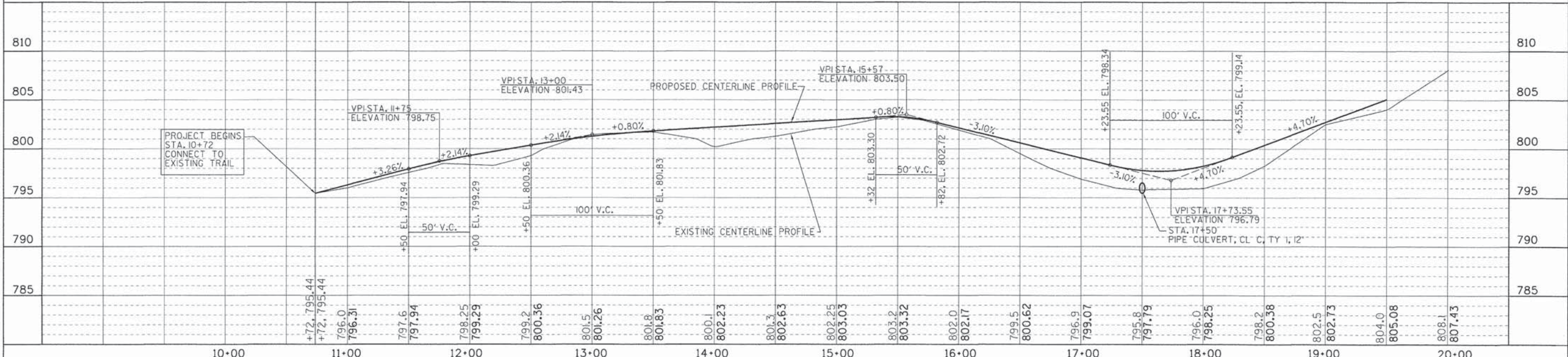
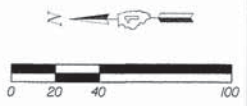
TREE TO BE PRESERVED

TREE REMOVAL

PERMANENT EASEMENT


TEMPORARY CONSTRUCTION EASEMENT


NOTE:  
SEE SHEETS 14 AND 15  
FOR TEMPORARY FENCING  
AND PERIMETER EROSION BARRIER



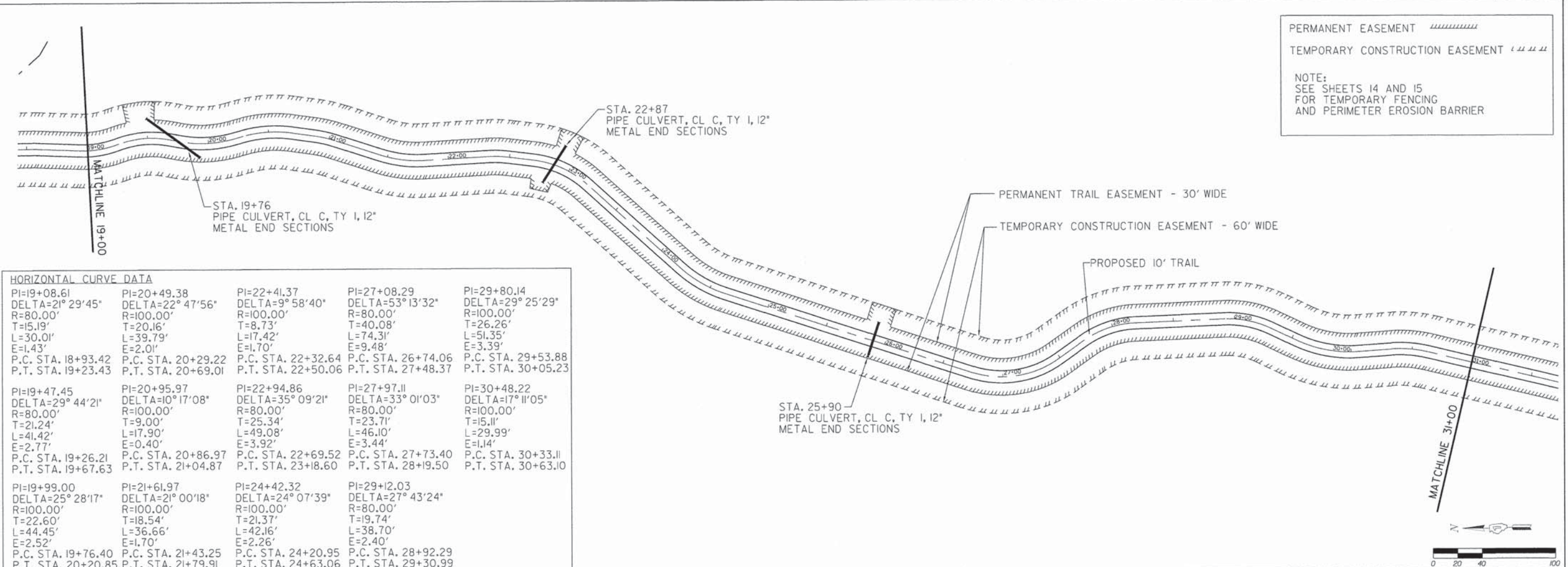
FILE NAME =	USER NAME =	DESIGNED - TFM	REVISED - 03/16/15	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - TFM	REVISED -		13-09150-00-BT	LAKE	22	6		
		CHECKED - TR	REVISED -		SCALE: 1"=40'		SHEET NO. 1 OF 4 SHEETS		STA. 10+72 TO STA. 19+00	
		PLOT DATE = 03/16/15	REVISED -		DATE - 12/05/14		CONTRACT NO. 61B57		ILLINOIS FED. AID PROJECT	



PERMANENT EASEMENT 

TEMPORARY CONSTRUCTION EASEMENT 

NOTE:  
SEE SHEETS 14 AND 15  
FOR TEMPORARY FENCING  
AND PERIMETER EROSION BARRIER



**HORIZONTAL CURVE DATA**

PI=19+08.61 DELTA=21° 29' 45" R=80.00' T=15.19' L=30.01' E=1.43' P.C. STA. 18+93.42 P.T. STA. 19+23.43	PI=20+49.38 DELTA=22° 47' 56" R=100.00' T=20.16' L=39.79' E=2.01' P.C. STA. 20+29.22 P.T. STA. 20+69.01	PI=22+41.37 DELTA=9° 58' 40" R=100.00' T=8.73' L=17.42' E=1.70' P.C. STA. 22+32.64 P.T. STA. 22+50.06	PI=27+08.29 DELTA=53° 13' 32" R=80.00' T=40.08' L=74.31' E=9.48' P.C. STA. 26+74.06 P.T. STA. 27+48.37	PI=29+80.14 DELTA=29° 25' 29" R=100.00' T=26.26' L=51.35' E=3.39' P.C. STA. 29+53.88 P.T. STA. 30+05.23
PI=19+47.45 DELTA=29° 44' 21" R=80.00' T=21.24' L=41.42' E=2.77' P.C. STA. 19+26.21 P.T. STA. 19+67.63	PI=20+95.97 DELTA=10° 17' 08" R=100.00' T=9.00' L=17.90' E=0.40' P.C. STA. 20+86.97 P.T. STA. 21+04.87	PI=22+94.86 DELTA=35° 09' 21" R=80.00' T=25.34' L=49.08' E=3.92' P.C. STA. 22+69.52 P.T. STA. 23+18.60	PI=27+97.11 DELTA=33° 01' 03" R=80.00' T=23.71' L=46.10' E=3.44' P.C. STA. 27+73.40 P.T. STA. 28+19.50	PI=30+48.22 DELTA=17° 11' 05" R=100.00' T=15.11' L=29.99' E=1.14' P.C. STA. 30+33.11 P.T. STA. 30+63.10
PI=19+99.00 DELTA=25° 28' 17" R=100.00' T=22.60' L=44.45' E=2.52' P.C. STA. 19+76.40 P.T. STA. 20+20.85	PI=21+61.97 DELTA=21° 00' 18" R=100.00' T=18.54' L=36.66' E=1.70' P.C. STA. 21+43.25 P.T. STA. 21+79.91	PI=24+42.32 DELTA=24° 07' 39" R=100.00' T=21.37' L=42.16' E=2.26' P.C. STA. 24+20.95 P.T. STA. 24+63.06	PI=29+12.03 DELTA=27° 43' 24" R=80.00' T=19.74' L=38.70' E=2.40' P.C. STA. 28+92.29 P.T. STA. 29+30.99	



FILE NAME =	USER NAME =	DESIGNED - TFM	REVISED - 03/16/15	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN - TFM	REVISED -			13-09150-00-BT	LAKE	22	7
	PLOT DATE = 03/16/15	CHECKED - TR	REVISED -			CONTRACT NO. 61B57			
		DATE - 12/05/14	REVISED -			ILLINOIS FED. AID PROJECT			

SCALE: 1"=40'    SHEET NO. 2 OF 4 SHEETS    STA. 19+00 TO STA. 31+00



**HORIZONTAL CURVE DATA**

PI=32+05.74	PI=39+92.67
DELTA=34° 52' 35"	DELTA=49° 08' 19"
R=95.00'	R=105.00'
T=29.84'	T=48.00'
L=57.85'	L=90.05'
E=4.58'	E=10.45'
P.C. STA. 31+75.9	P.C. STA. 39+44.67
P.T. STA. 32+33.75	P.T. STA. 40+34.72

PI=33+65.28
DELTA=37° 47' 50"
R=95.00'
T=33.38'
L=64.20'
E=5.56'
P.C. STA. 33+31.9
P.T. STA. 33+96.1

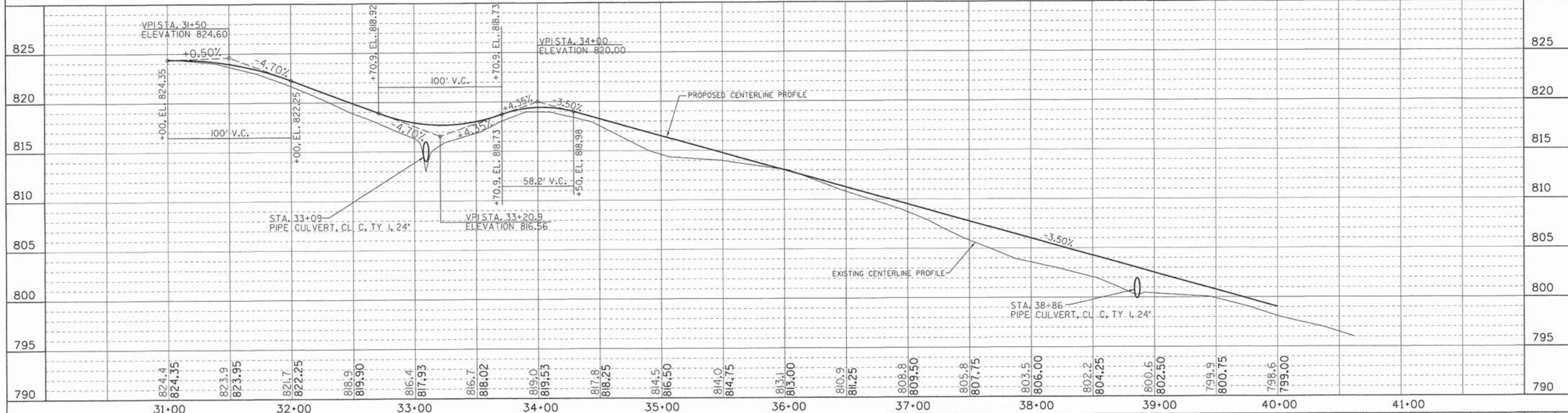
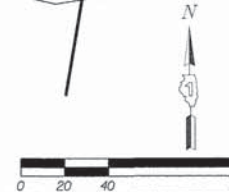
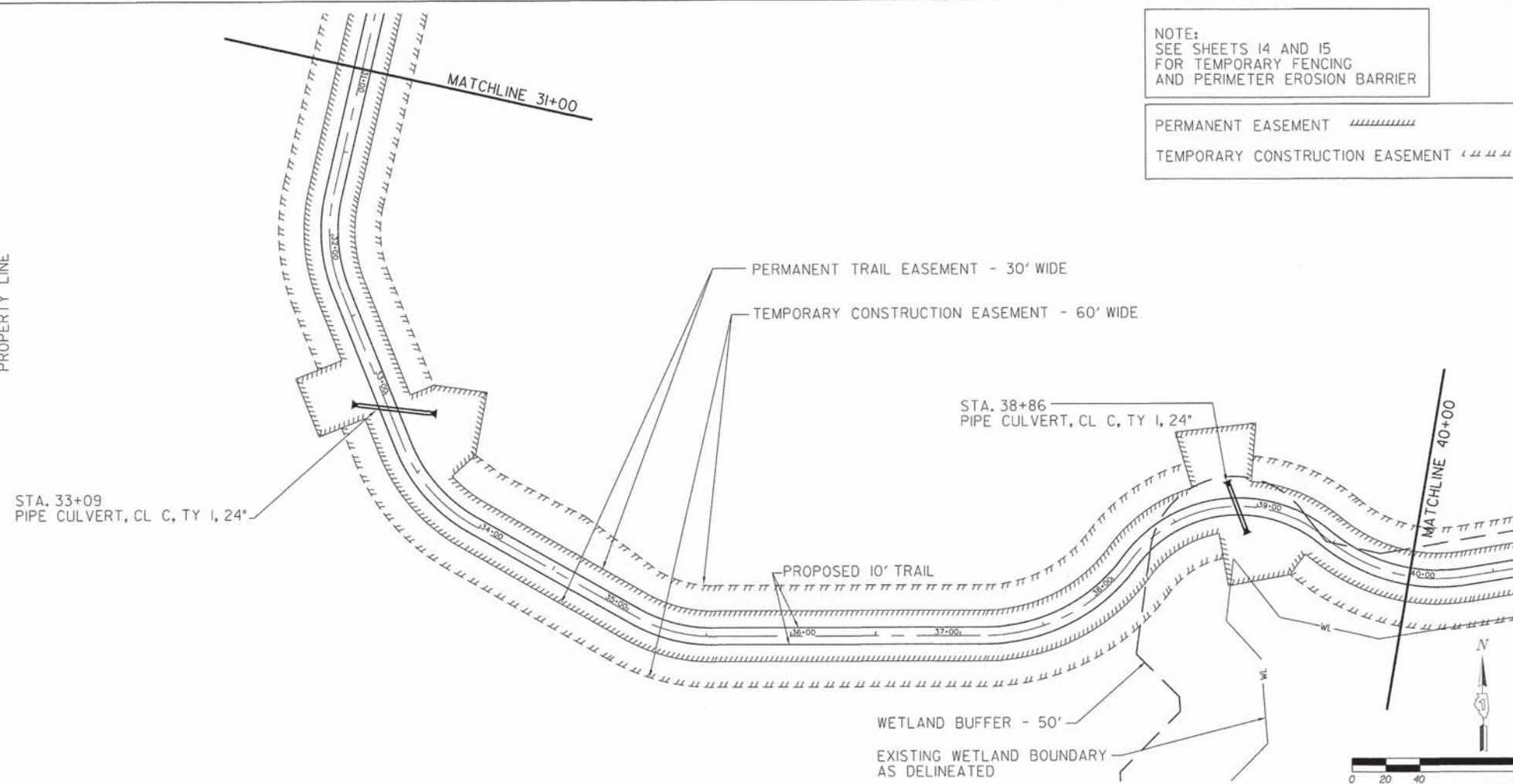
PI=35+30.37
DELTA=29° 36' 56"
R=95.00'
T=25.11'
L=49.10'
E=3.26'
P.C. STA. 35+05.26
P.T. STA. 35+54.36

PI=37+68.55
DELTA=53° 46' 51"
R=105.00'
T=53.25'
L=98.56'
E=12.73'
P.C. STA. 37+15.3
P.T. STA. 38+13.86

PI=38+99.18
DELTA=93° 41' 41"
R=80.00'
T=85.32'
L=130.81'
E=36.96'
P.C. STA. 38+13.86
P.T. STA. 39+44.67

NOTE:  
SEE SHEETS 14 AND 15  
FOR TEMPORARY FENCING  
AND PERIMETER EROSION BARRIER

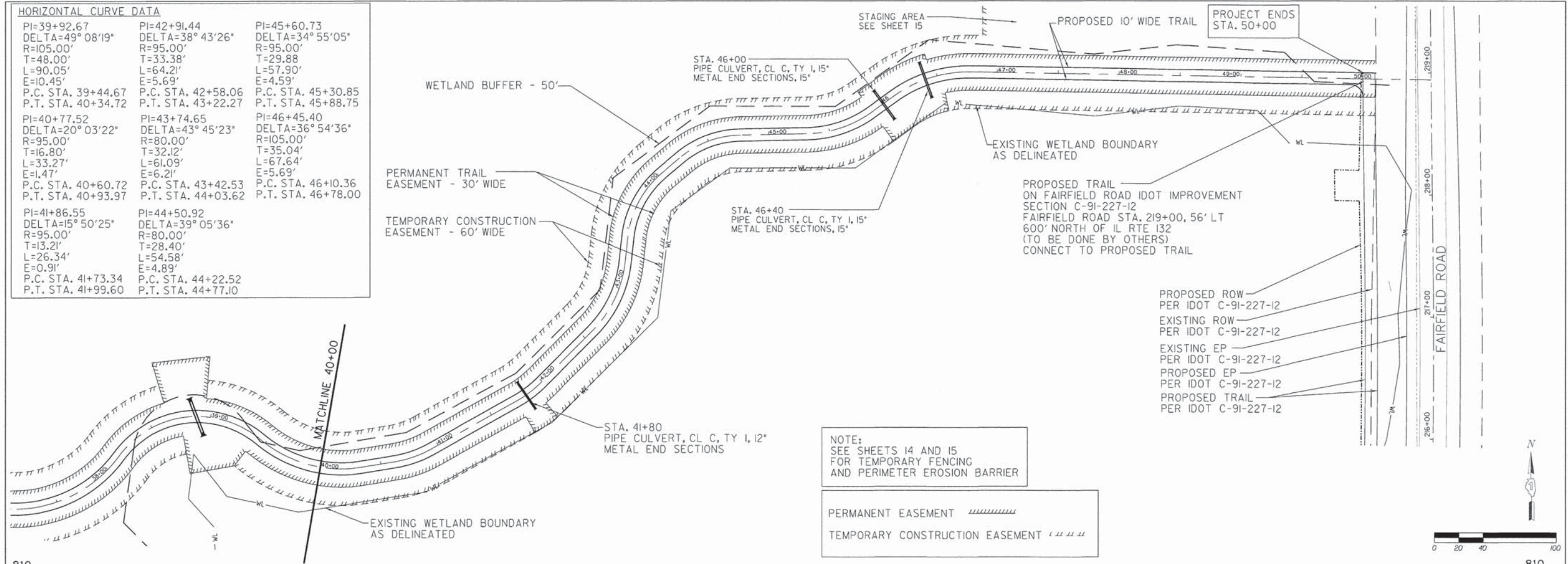
PERMANENT EASEMENT   
TEMPORARY CONSTRUCTION EASEMENT 



FILE NAME =	USER NAME =	DESIGNED - TFM	REVISED - 03/16/15	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE =	DRAWN - TFM	REVISED -	13-09150-00-BT			LAKE	22	8	
PLOT DATE = 03/16/15	CHECKED - TR	REVISED -	CONTRACT NO. 61B57						
DATE - 12/05/14	REVISED -	ILLINOIS FED. AID PROJECT							



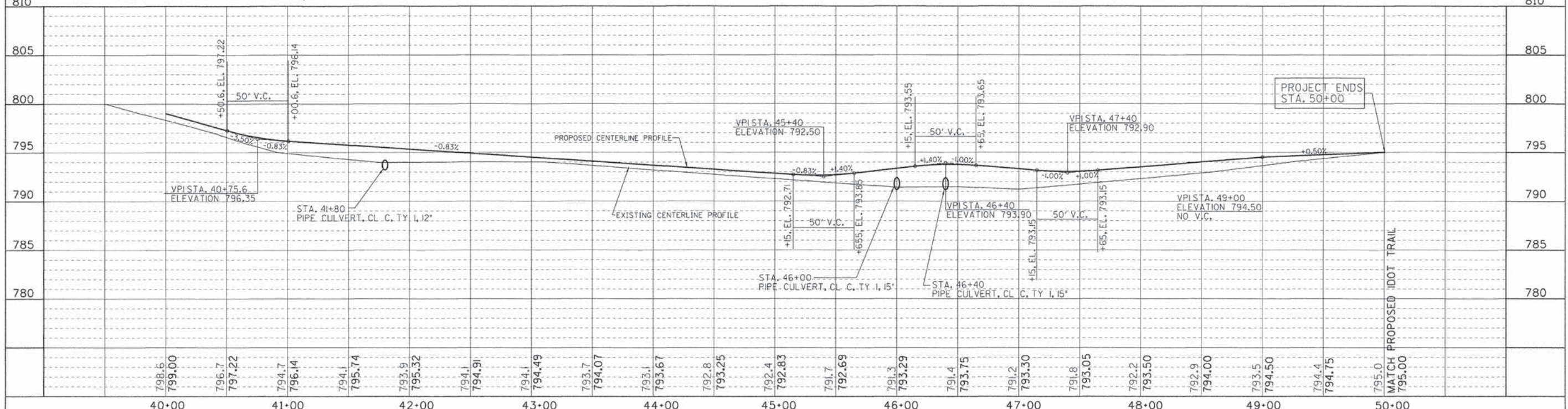
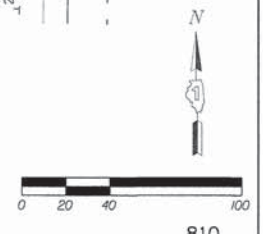
HORIZONTAL CURVE DATA		
PI=39+92.67 DELTA=49° 08'19" R=105.00' T=48.00' L=90.05' E=10.45' P.C. STA. 39+44.67 P.T. STA. 40+34.72	PI=42+91.44 DELTA=38° 43'26" R=95.00' T=33.38' L=64.21' E=5.69' P.C. STA. 42+58.06 P.T. STA. 43+22.27	PI=45+60.73 DELTA=34° 55'05" R=95.00' T=29.88' L=57.90' E=4.59' P.C. STA. 45+30.85 P.T. STA. 45+88.75
PI=40+77.52 DELTA=20° 03'22" R=95.00' T=16.80' L=33.27' E=1.47' P.C. STA. 40+60.72 P.T. STA. 40+93.97	PI=43+74.65 DELTA=43° 45'23" R=80.00' T=32.12' L=61.09' E=6.21' P.C. STA. 43+42.53 P.T. STA. 44+03.62	PI=46+45.40 DELTA=36° 54'36" R=105.00' T=35.04' L=67.64' E=5.69' P.C. STA. 46+10.36 P.T. STA. 46+78.00
PI=44+86.55 DELTA=15° 50'25" R=95.00' T=13.21' L=26.34' E=0.91' P.C. STA. 44+73.34 P.T. STA. 44+99.60	PI=44+50.92 DELTA=39° 05'36" R=80.00' T=28.40' L=54.58' E=4.89' P.C. STA. 44+22.52 P.T. STA. 44+77.10	



- PROPOSED ROW PER IDOT C-91-227-12
- EXISTING ROW PER IDOT C-91-227-12
- EXISTING EP PER IDOT C-91-227-12
- PROPOSED EP PER IDOT C-91-227-12
- PROPOSED TRAIL PER IDOT C-91-227-12

NOTE:  
SEE SHEETS 14 AND 15  
FOR TEMPORARY FENCING  
AND PERIMETER EROSION BARRIER









PERMANENT EASEMENT   
TEMPORARY CONSTRUCTION EASEMENT



FILE NAME =	USER NAME =	DESIGNED - TFM	REVISED - 03/16/15	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PLAN AND PROFILE		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE =	DRAWN - TFM	CHECKED - TR	REVISED -					13-09150-00-BT	LAKE	22	9
PLOT DATE = 03/16/15	DATE - 12/05/14	REVISED -	CONTRACT NO. 61B57					ILLINOIS FED. AID PROJECT			
SCALE: 1"=40'		SHEET NO. 4 OF 4 SHEETS						STA. 40+00 TO STA. 50+00			



TREE REMOVAL NOTE:  
 TREE REMOVAL FROM  
 STA. 10+72 TO STA. 18+12  
 TO BE PAID FOR AS TREE REMOVAL UNIT DIAMETER.  
 TREE REMOVAL FROM  
 STA. 18+12 TO STA. 50+00  
 TO BE PAID FOR AS TREE REMOVAL, ACRES

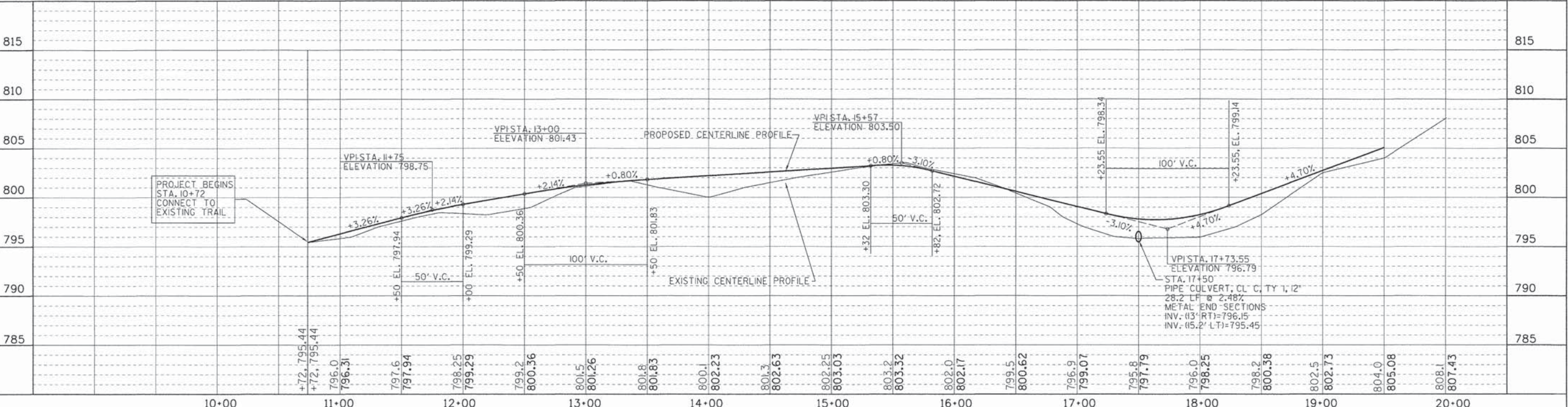
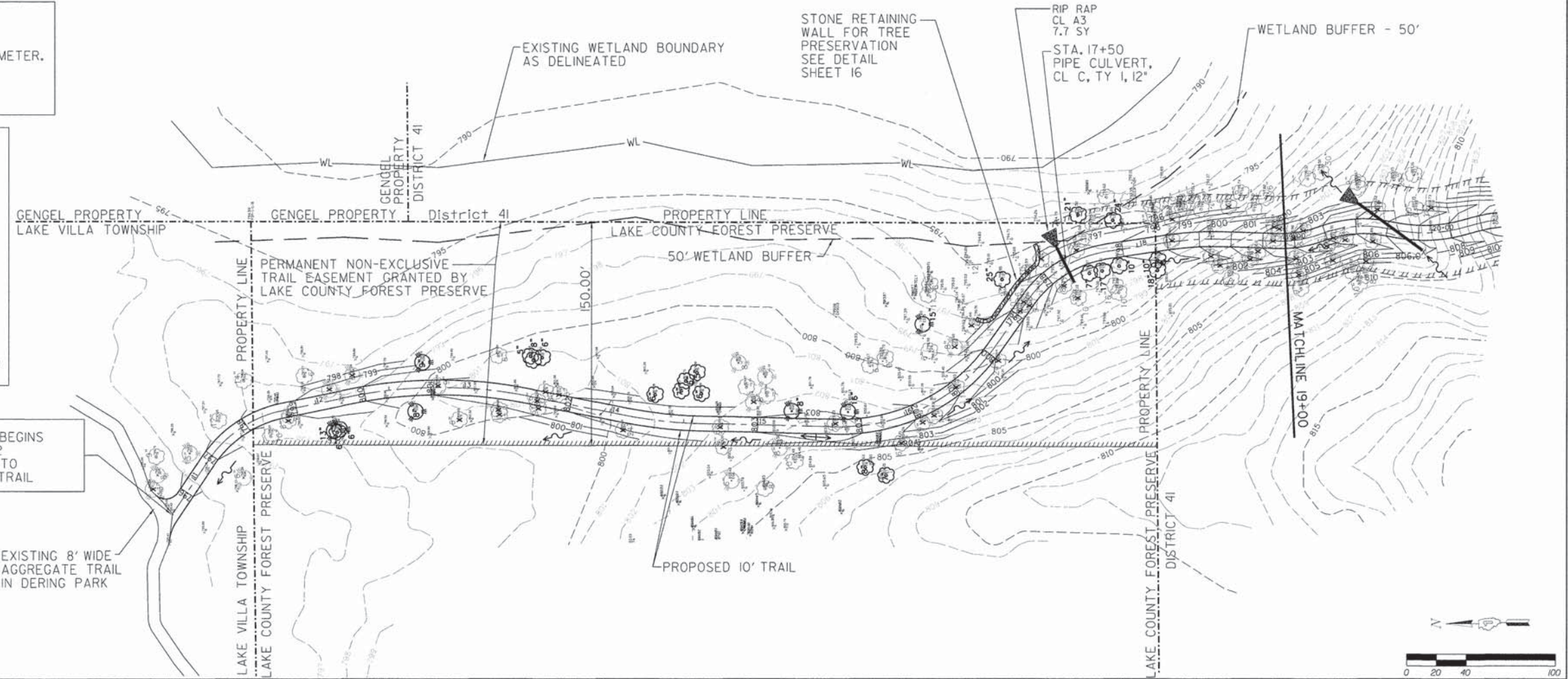
EXISTING DECIDUOUS TREE  12"  
 EXISTING CONIFER TREE   
 TREE TO BE PRESERVED   
 TREE REMOVAL   
 EXISTING CONTOUR   
 PROPOSED CONTOUR   
 PROPOSED SPOT ELEVATION  $\times 794.24$   
 PROPOSED SURFACE FLOW DIRECTION   
 TEMPORARY CONSTRUCTION EASEMENT 

PROJECT BEGINS  
 STA. 10+72  
 CONNECT TO  
 EXISTING TRAIL

NOTE:  
 SEE SHEETS 14 AND 15  
 FOR TEMPORARY FENCING  
 AND PERIMETER EROSION BARRIER

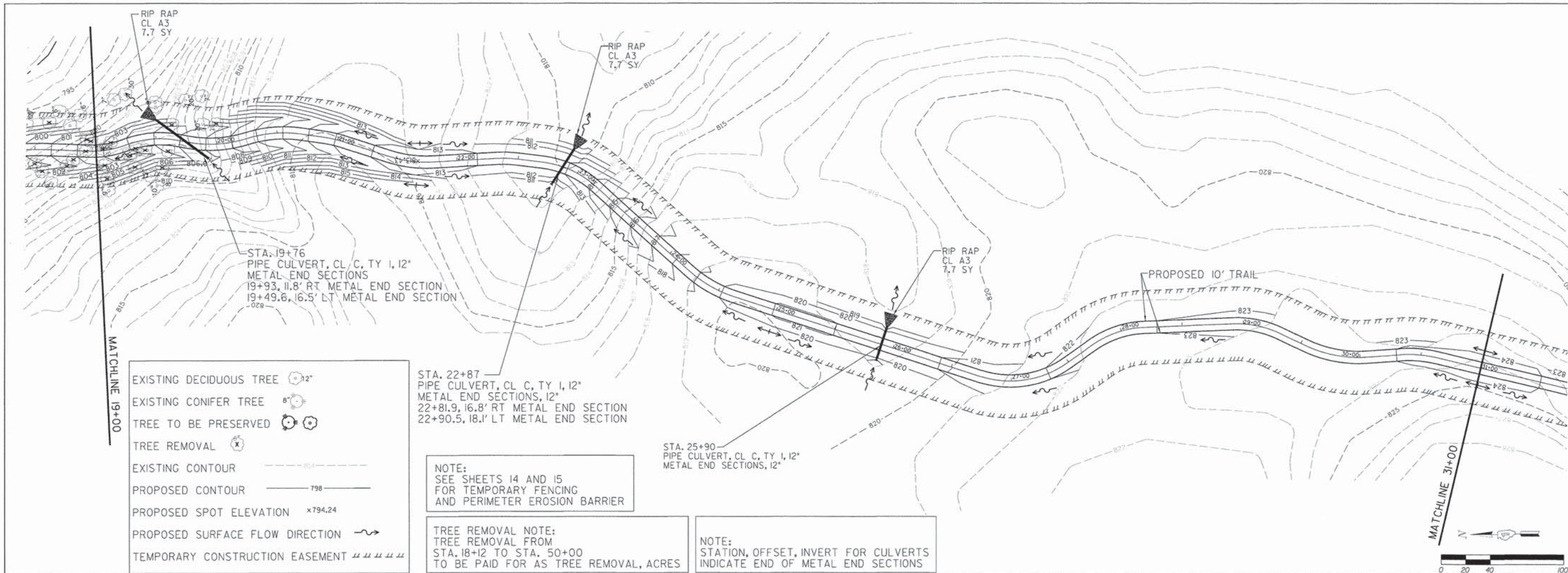
NOTE:  
 STATION, OFFSET, INVERT FOR CULVERTS  
 INDICATE END OF METAL END SECTIONS

EXISTING 8' WIDE  
 AGGREGATE TRAIL  
 IN DERING PARK



FILE NAME =	USER NAME =	DESIGNED - TFM	REVISED - 03/16/15	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GRADING AND DRAINAGE PLAN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE =	CHECKED - TR	DATE - 12/05/14	REVISED -			13-09150-00-BT	LAKE	22	10	
PLOT DATE = 03/16/15	DATE - 12/05/14	REVISED -	SCALE: 1"=40'			SHEET NO. 1 OF 4 SHEETS	STA. 10+72 TO STA. 19+00	CONTRACT NO. 61B57		
								ILLINOIS FED. AID PROJECT		





- EXISTING DECIDUOUS TREE 12"
- EXISTING CONIFER TREE 8"
- TREE TO BE PRESERVED
- TREE REMOVAL
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED SURFACE FLOW DIRECTION
- TEMPORARY CONSTRUCTION EASEMENT

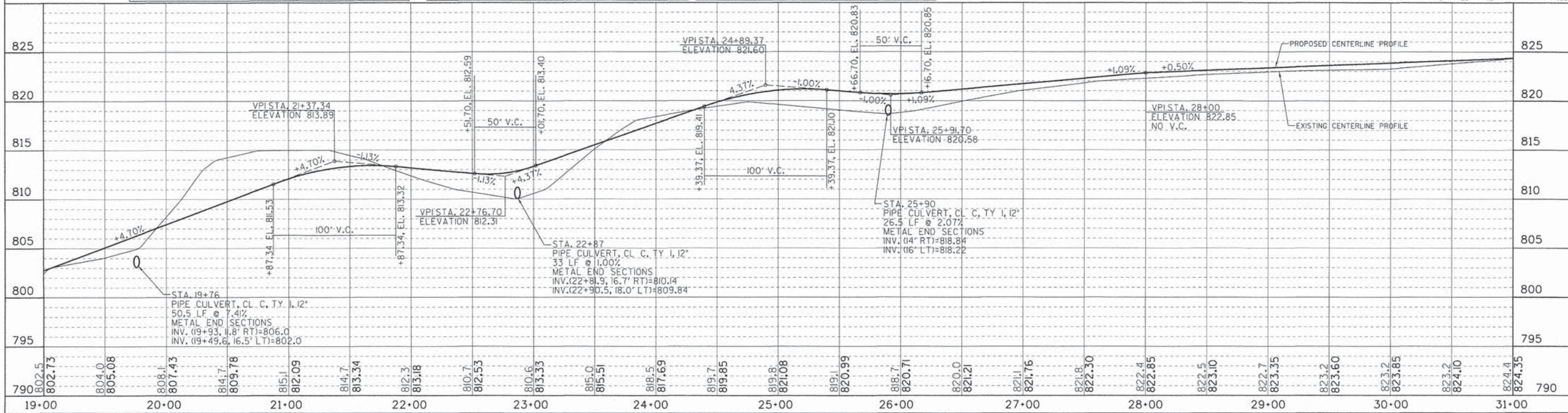
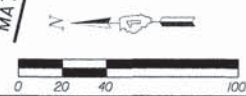
STA. 22+87  
PIPE CULVERT, CL C, TY 1, 12"  
METAL END SECTIONS, 12"  
22+81.9, 16.8' RT METAL END SECTION  
22+90.5, 18.1' LT METAL END SECTION

STA. 25+90  
PIPE CULVERT, CL C, TY 1, 12"  
METAL END SECTIONS, 12"

NOTE:  
SEE SHEETS 14 AND 15  
FOR TEMPORARY FENCING  
AND PERIMETER EROSION BARRIER

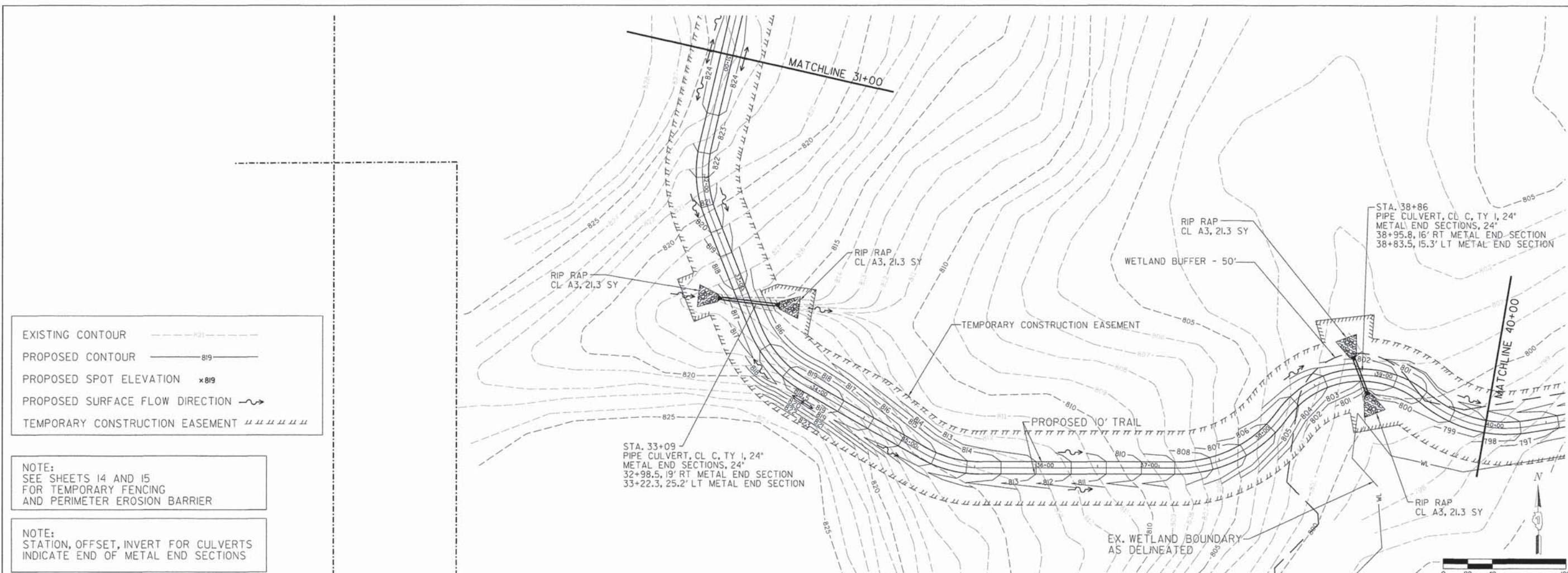
TREE REMOVAL NOTE:  
TREE REMOVAL FROM  
STA. 18+12 TO STA. 50+00  
TO BE PAID FOR AS TREE REMOVAL, ACRES

NOTE:  
STATION, OFFSET, INVERT FOR CULVERTS  
INDICATE END OF METAL END SECTIONS



FILE NAME =	USER NAME =	DESIGNED - TFM	REVISED - 03/16/15	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GRADING AND DRAINAGE PLAN	SECTION 13-09150-00-BT	COUNTY LAKE	TOTAL SHEETS 22	SHEET NO. II
PLOT SCALE =	CHECKED - TR	DATE - 12/05/14	REVISED -	SCALE: 1"=40'   SHEET NO. 2 OF 4 SHEETS   STA. 19+00 TO STA. 31+00		CONTRACT NO. 61B57 ILLINOIS FED. AID PROJECT			

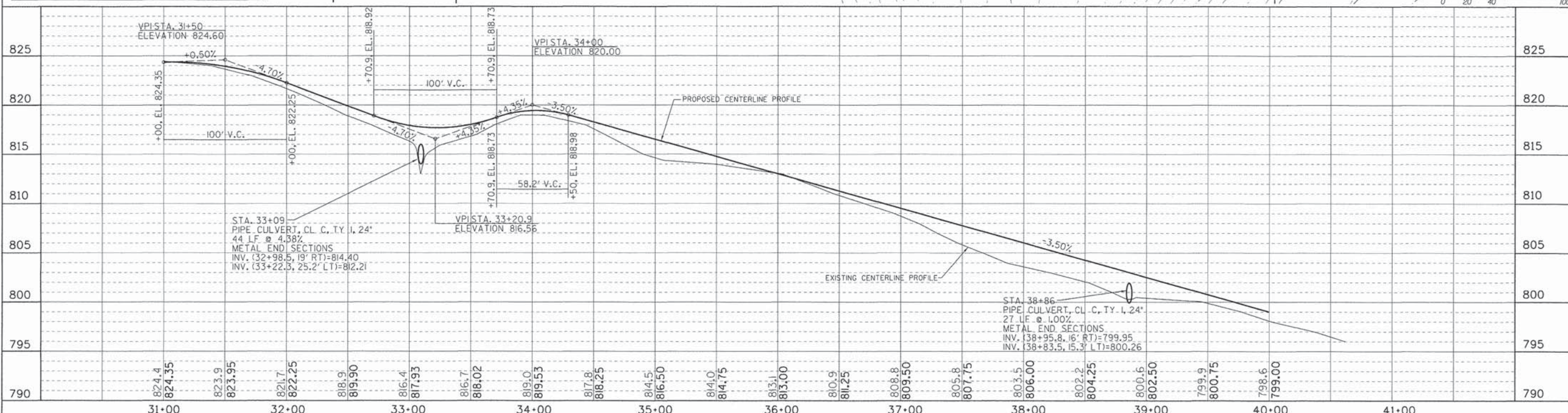




EXISTING CONTOUR 819  
 PROPOSED CONTOUR 819  
 PROPOSED SPOT ELEVATION 819  
 PROPOSED SURFACE FLOW DIRECTION   
 TEMPORARY CONSTRUCTION EASEMENT

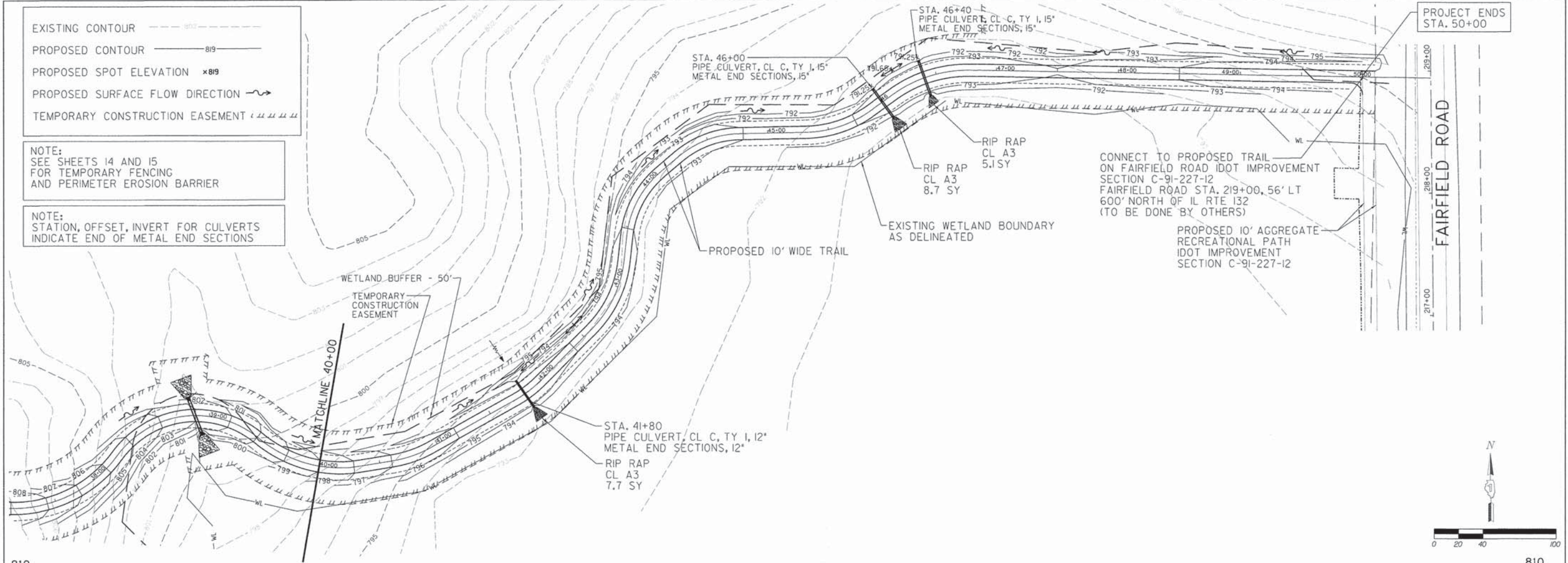
NOTE:  
 SEE SHEETS 14 AND 15  
 FOR TEMPORARY FENCING  
 AND PERIMETER EROSION BARRIER

NOTE:  
 STATION, OFFSET, INVERT FOR CULVERTS  
 INDICATE END OF METAL END SECTIONS



FILE NAME =	USER NAME =	DESIGNED - TFM	REVISED - 03/16/15	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GRADING AND DRAINAGE PLAN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - TFM	REVISED -			13-09150-00-BT	LAKE	22	12
		CHECKED - TR	REVISED -			CONTRACT NO. 61B57			
		DATE - 12/05/14	REVISED -			ILLINOIS FED. AID PROJECT			
PLOT SCALE =		PLOT DATE = 03/16/15		SCALE: 1"=40'		SHEET NO. 3 OF 4 SHEETS		STA. 31+00 TO STA. 40+00	





EXISTING CONTOUR

PROPOSED CONTOUR

PROPOSED SPOT ELEVATION  $\times 819$

PROPOSED SURFACE FLOW DIRECTION

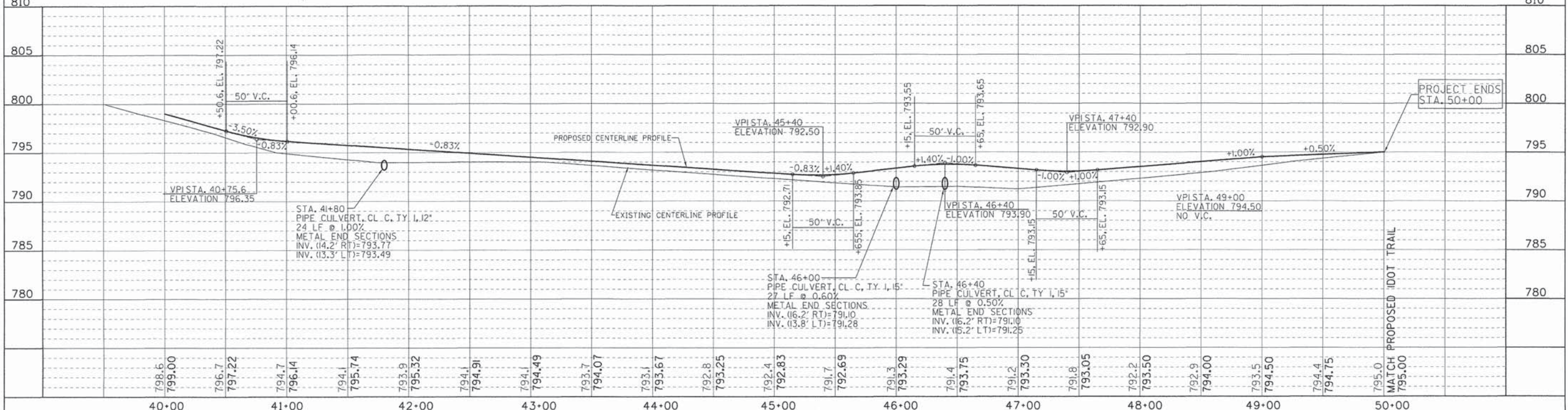
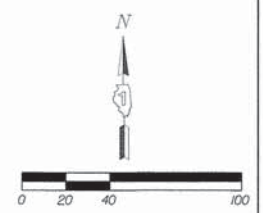
TEMPORARY CONSTRUCTION EASEMENT

NOTE:  
SEE SHEETS 14 AND 15  
FOR TEMPORARY FENCING  
AND PERIMETER EROSION BARRIER

NOTE:  
STATION, OFFSET, INVERT FOR CULVERTS  
INDICATE END OF METAL END SECTIONS

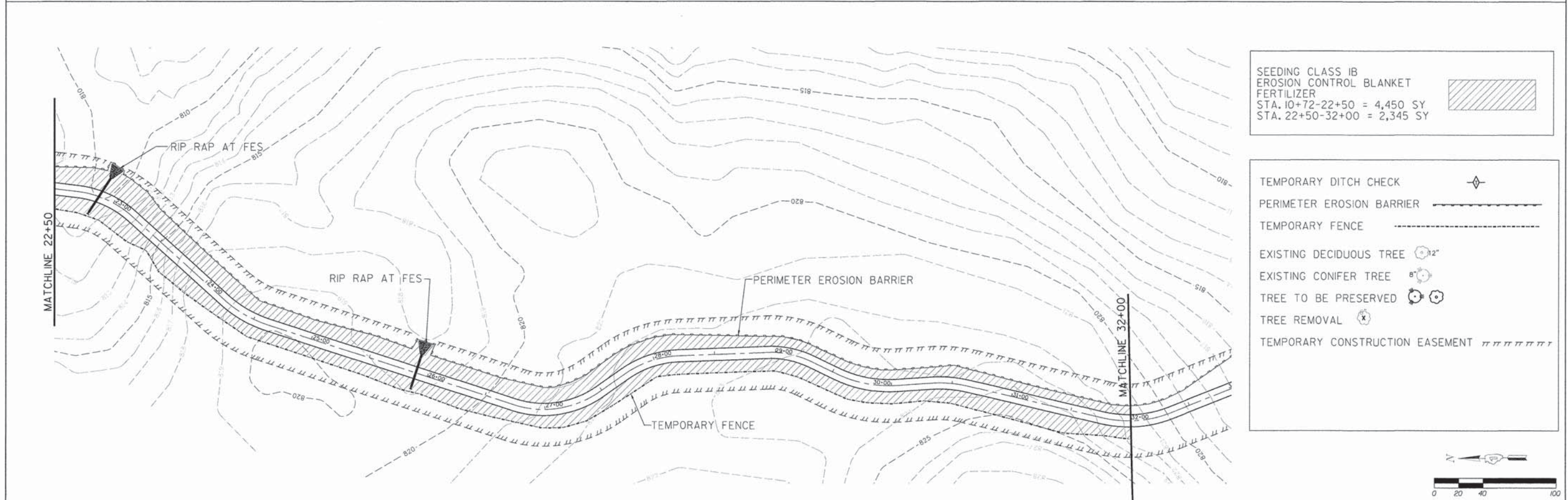
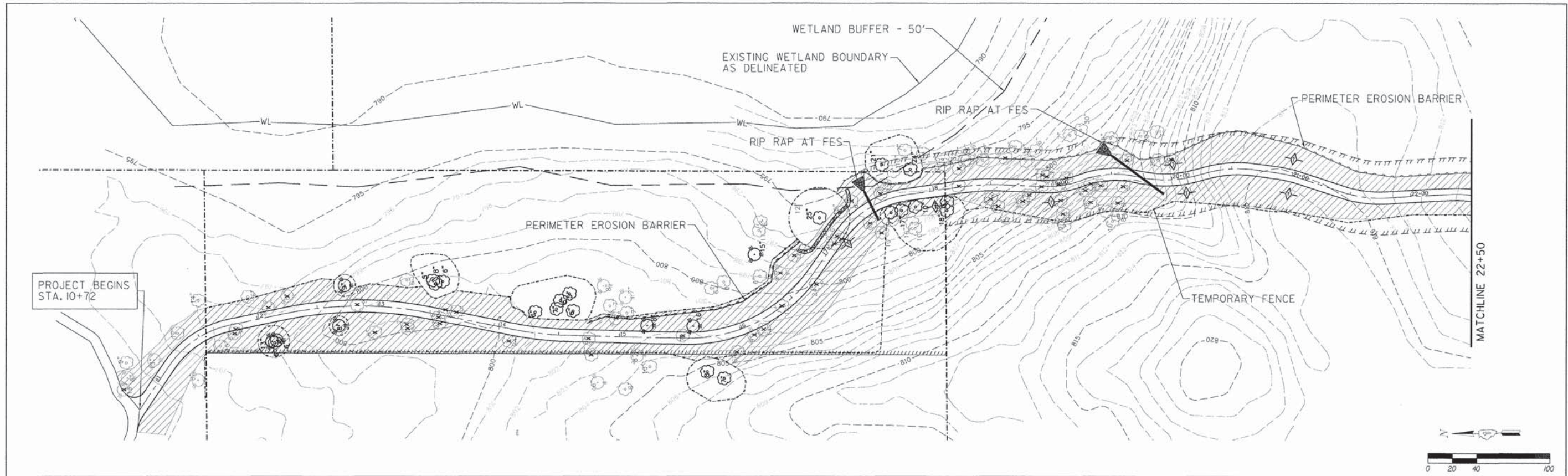
CONNECT TO PROPOSED TRAIL  
ON FAIRFIELD ROAD IDOT IMPROVEMENT  
SECTION C-91-227-12  
FAIRFIELD ROAD STA. 219+00, 56' LT  
600' NORTH OF IL RTE 132  
(TO BE DONE BY OTHERS)

PROPOSED 10' AGGREGATE  
RECREATIONAL PATH  
IDOT IMPROVEMENT  
SECTION C-91-227-12



FILE NAME =	USER NAME =	DESIGNED - TFM	REVISED - 03/16/15	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GRADING AND DRAINAGE PLAN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE =	DRAWN - TFM	REVISED -	13-09150-00-BT			LAKE	22	13	
PLOT DATE = 03/16/15	CHECKED - TR	REVISED -	CONTRACT NO. 61857						
	DATE - 12/05/14	REVISED -	ILLINOIS FED. AID PROJECT						





SEEDING CLASS 1B  
 EROSION CONTROL BLANKET  
 FERTILIZER  
 STA. 10+72-22+50 = 4,450 SY  
 STA. 22+50-32+00 = 2,345 SY

- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- TEMPORARY FENCE
- EXISTING DECIDUOUS TREE
- EXISTING CONIFER TREE
- TREE TO BE PRESERVED
- TREE REMOVAL
- TEMPORARY CONSTRUCTION EASEMENT

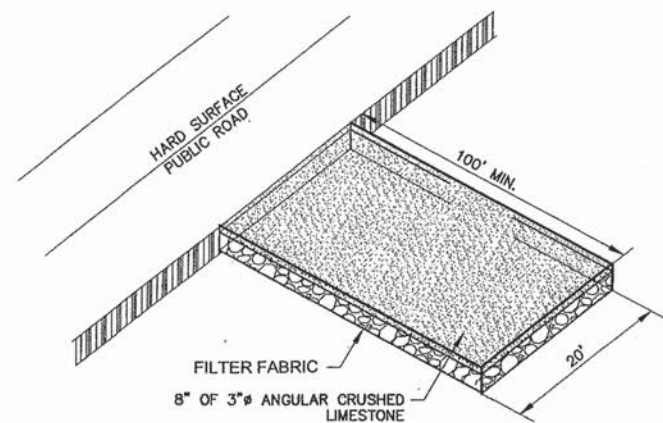
FILE NAME =	USER NAME =	DESIGNED - TFM	REVISED - 03/16/15	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SEDIMENT AND EROSION CONTROL PLAN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE =	CHECKED - TR	DRAWN - TFM	REVISED -			13-09150-00-BT	LAKE	22	14
PLOT DATE = 03/16/15	DATE - 12/05/14	REVISOR -	REVISED -			CONTRACT NO. 61B57			
						ILLINOIS FED. AID PROJECT			





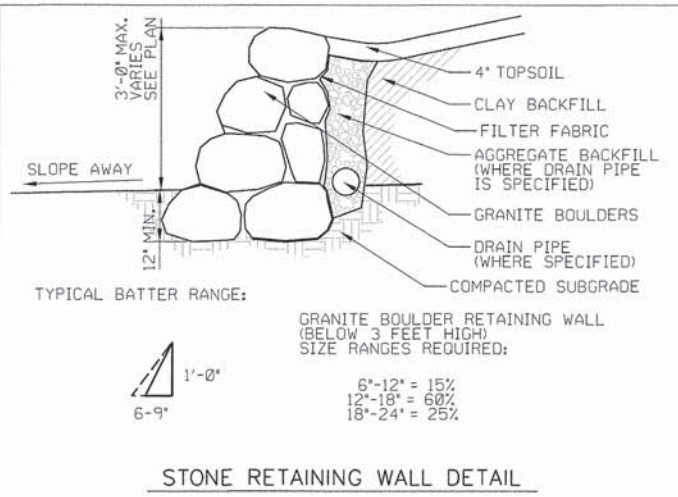


**EXHIBIT A**

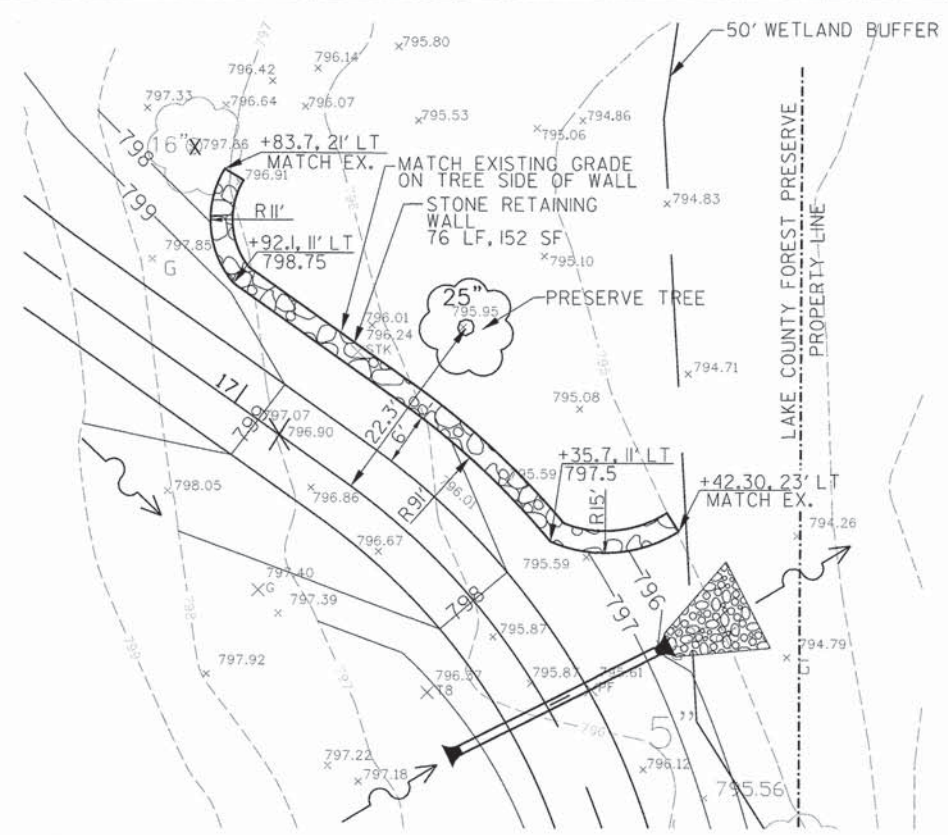


**STABILIZED GRAVEL CONSTRUCTION ENTRANCE**

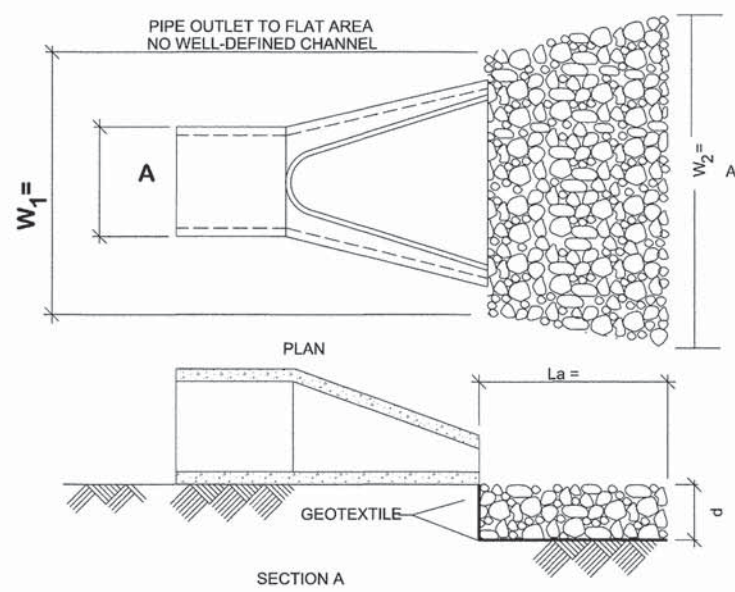
1. Maintenance – The entrance shall be maintained in a condition that will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or clean out of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
2. Filter Cloth – Will be placed over the entire area prior to placing of stone.
3. Washing – Wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required it shall be done on an area stabilized with stone and which drains into an approved sediment-trapping device.
4. Periodic inspection and needed maintenance shall be provided after each rain.



NOTE:  
I. SEE SEDIMENT AND EROSION CONTROL PLAN FOR PERIMETER EROSION BARRIER AND TEMPORARY FENCE



STONE RETAINING WALL PLAN 16+83.7 - 17+42.30



**RIP RAP AT FLARED END SECTIONS**

RR3 Rip Rap shall have 100% passing 50 lbs, 50%+/- 20% passing 10 lbs, and 8% +/- 8% passing 1 lbs.  
RR4 Rip Rap shall have 100% passing 150 lbs, 50%+/- 20% passing 40 lbs, and 8% +/- 8% passing 1 lbs.

DESIGN VALUES BASED ON MINIMUM TAILWATER AND V=5 FPS IN ACCORDANCE WITH CODE 910 OF "BLUE BOOK"

NOTES:  
1. THE FILTER FABRIC SHALL MEET THE REQUIREMENTS IN MATERIAL SPECIFICATIONS 592 GEOTEXTILE TABLE 1 OR 2, CLASS I, II, III.  
2. THE RIPRAP SHALL BE PLACED ACCORDING TO CONSTRUCTION SPECIFICATION 61 LOOSE ROCK RIPRAP. THE ROCK MAY BE EQUIPMENT PLACED.

DIA. (inches)	La (ft)	W1 (inches)	W2 (ft)	ROCK SIZE	d (inches)	VOLUME (cy)
12	10	36	11	RR3	15	3.25
15	12	45	13.2	RR3	15	4.70
18	14	54	15.5	RR3	15	6.5
21	15	63	17	RR3	15	7.7
24	16	72	18	RR3	15	8.9
27	17	81	20	RR3	15	10.5
30	18	90	21	RR3	15	11.9
36	20	108	23	RR4	20	19.8
42	22	126	26	RR4	20	24.8
48	24	144	28	RR4	20	29.6

**SILT FENCE DETAIL**

1. Set posts and excavate or slit-trench a 6-inch deep trench upslope along the line of the post
2. Attach the geotextile filter fabric to each post with a minimum of 3 (three) fasteners per post and extend to the bottom of the trench. Acceptable fasteners include staples, zip ties, or wire ties
3. Backfill and compact the excavated spoil materials

Geotextile Requirement Test Method MARV

Grab strength	ASTM D 4632	550 N
- Machine direction		450 N
- X-machine direction		
Permittivity	ASTM D 4491	0.05 sec-1
Apparent opening size*	ASTM D 4751	0.60 mm
Ultraviolet stability (retained strength)	ASTM D 4355	70% after 500 hours

Note: Value for apparent opening size represents maximum average roll value.

2 (two) inch nominal hardwood posts or U,T,L. or C shape, steel posts with a minimum weight of 1.33 lbs/lf

Post and fabric height above ground = 30 in.

Fasteners (typ.)

Geotextile fabric

Compacted spoil material

Fabric extension into the trench

6 in.

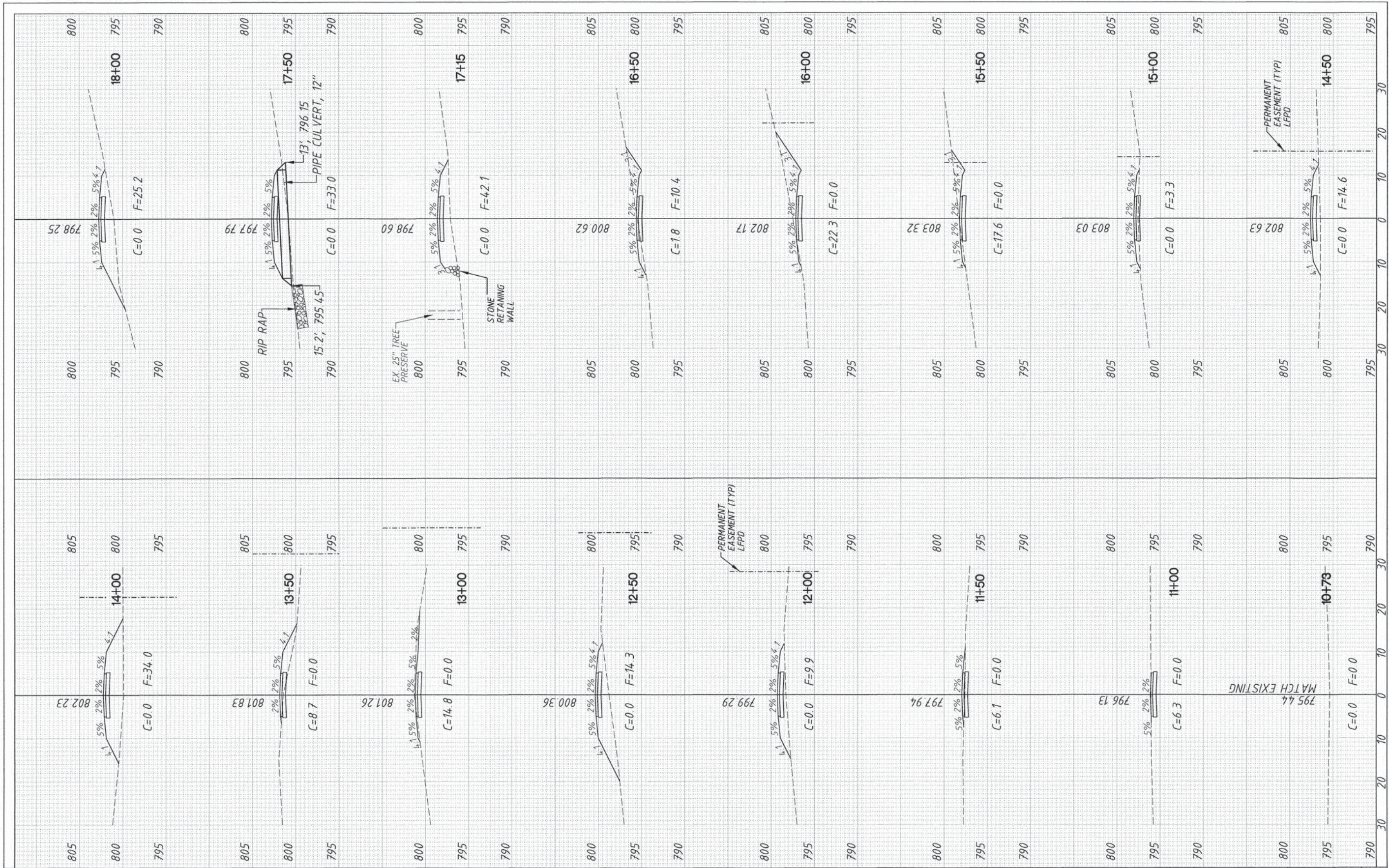
5 (five) foot max. spacing

Direction of flow

DATE: 4/21/08 BY: KAW  
REVISED: BY:

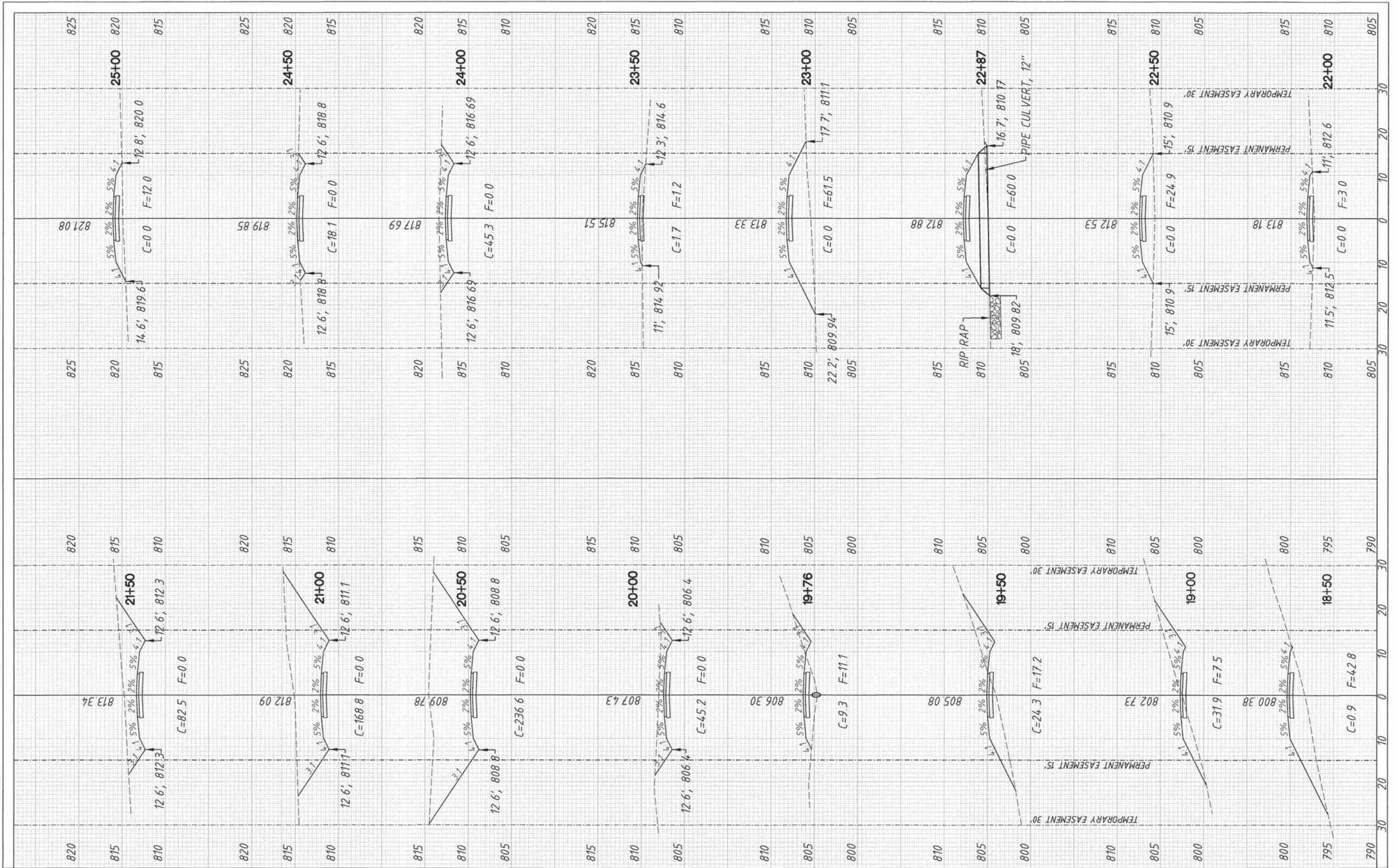
LAKE COUNTY STORMWATER MANAGEMENT COMMISSION





FILE NAME =	USER NAME =	DESIGNED - TFM	REVISED - 03/16/15	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE =	DATE = 12/05/14	DRAWN - TFM	REVISED -		13-09150-00-BT	LAKE	22	17			
CHECKED - TR	DATE = 03/16/15	REVISOR -	REVISOR -		CONTRACT NO. 61B57						
PLOT DATE = 03/16/15	DATE = 12/05/14	REVISOR -	REVISOR -		ILLINOIS	FED. AID	PROJECT				
				SCALE: 1"=10'H, 1"=5'V			SHEET NO. 1 OF 6 SHEETS		STA. 10+73 TO STA. 18+00		





FILE NAME =  
 USER NAME =  
 PLOT SCALE =  
 PLOT DATE = 03/16/15

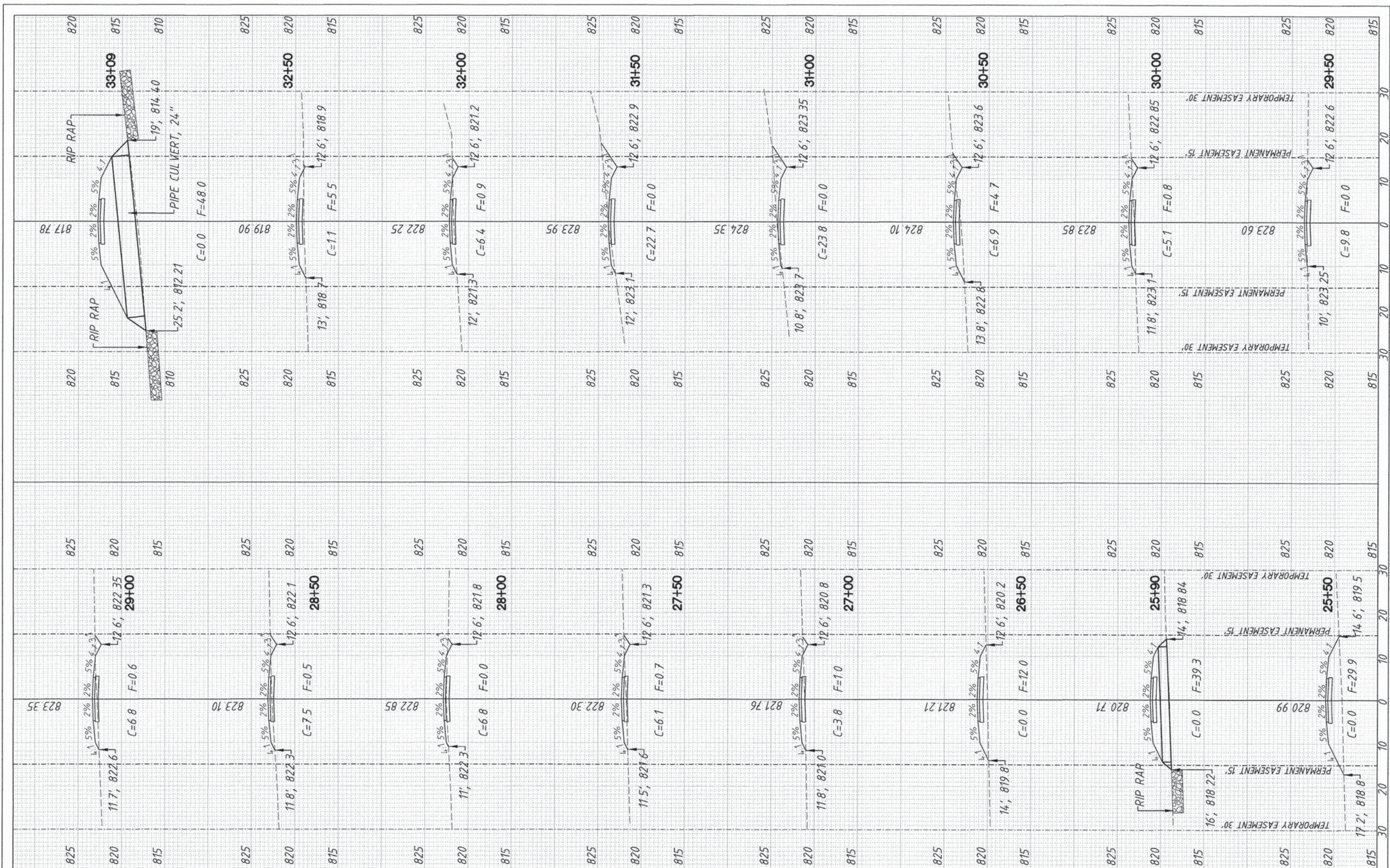
DESIGNED - TFM	REVISED - 03/16/15
DRAWN - TFM	REVISED -
CHECKED - TR	REVISED -
DATE - 12/05/14	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 SCALE: 1"=10'H, 1"=5'V  
 SHEET NO. 2 OF 6 SHEETS  
 STA. 18+50 TO STA. 25+00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13-09150-00-BT	LAKE	22	18
CONTRACT NO. 61B57			
ILLINOIS FED. AID PROJECT			

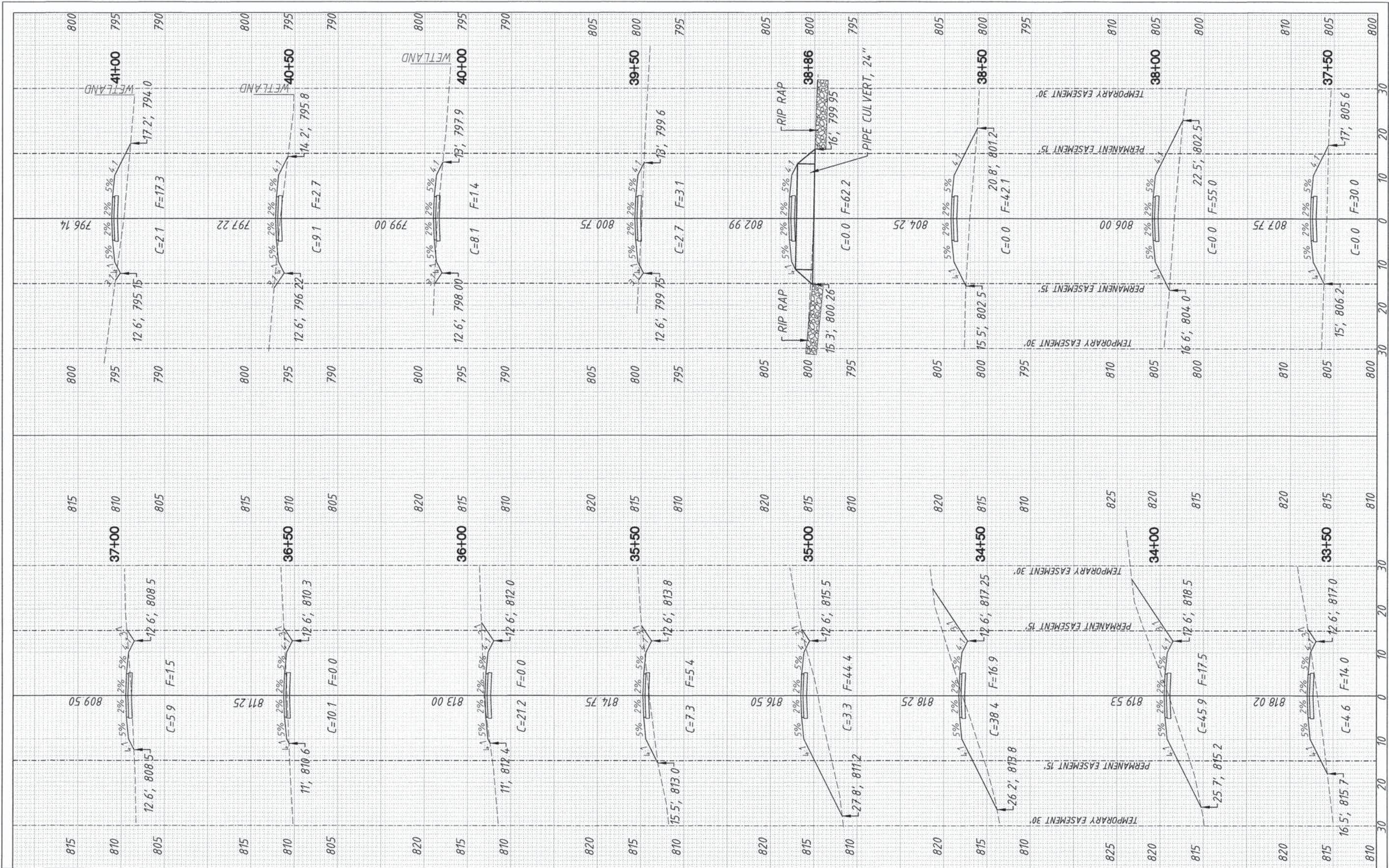




FILE NAME =	USER NAME =	DESIGNED - TFM	REVISED - 03/16/15	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS			SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN - TFM	REVISED -		13-09150-00-BT	LAKE	22	19			
	PLOT DATE = 03/16/15	CHECKED - TR	REVISED -		SCALE: 1"=10'H, 1"=5'V			CONTRACT NO. 61B57			
		DATE - 12/05/14	REVISED -		SHEET NO. 3 OF 6 SHEETS	STA. 25+50 TO STA. 33+09	ILLINOIS FED. AID PROJECT				

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FILE NAME =

USER NAME =

DESIGNED - TFM

REVISED - 03/16/15

DRAWN - TFM

CHECKED - TR

REVISED -

PLOT SCALE =

DATE - 12/05/14

REVISED -

PLOT DATE = 03/16/15

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

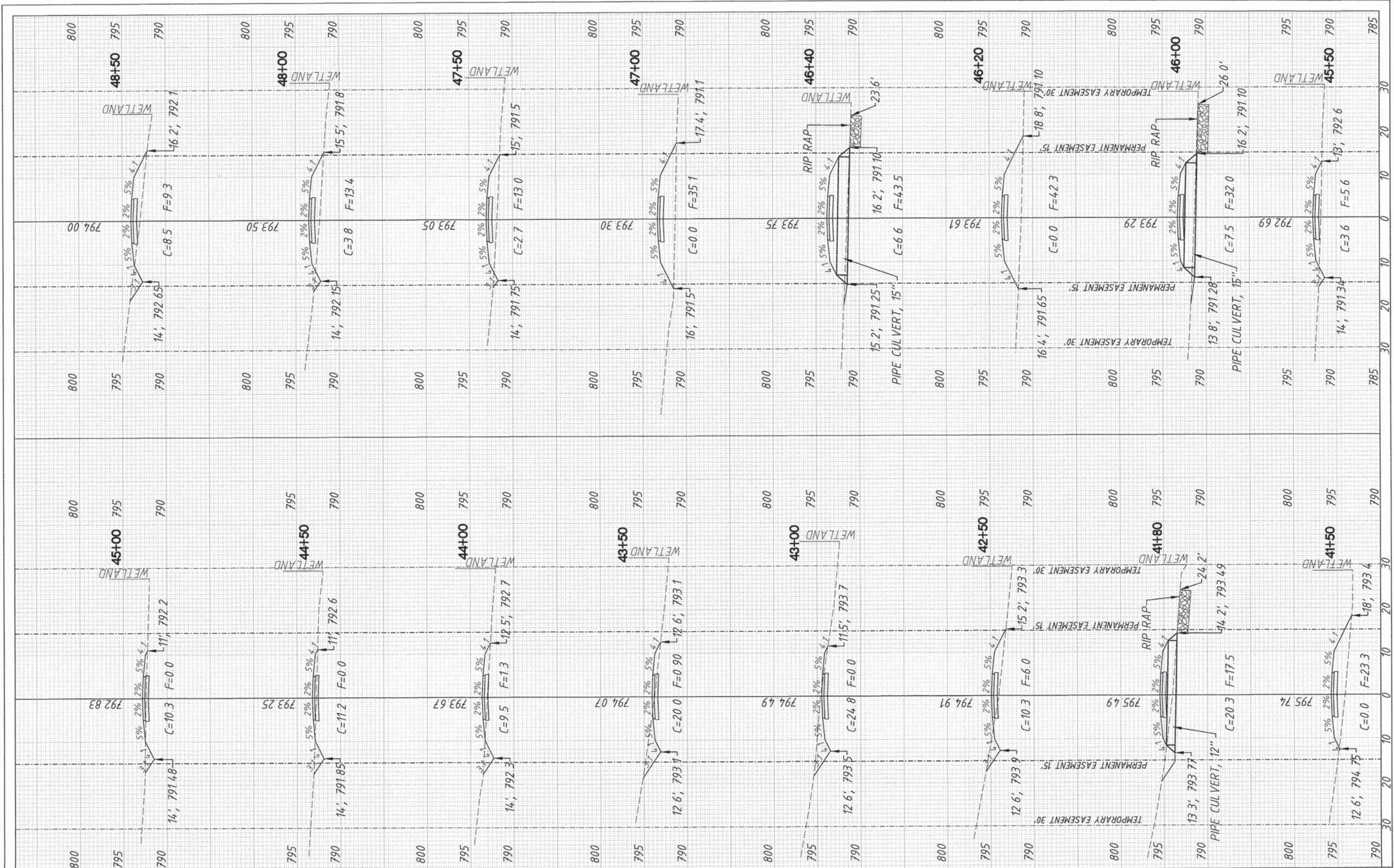
CROSS SECTIONS

SCALE: 1"=10'H, 1"=5' V SHEET NO. 4 OF 6 SHEETS STA. 33+50 TO STA. 41+00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13-09150-00-BT	LAKE	22	20
CONTRACT NO. 61B57			
ILLINOIS FED. AID PROJECT			

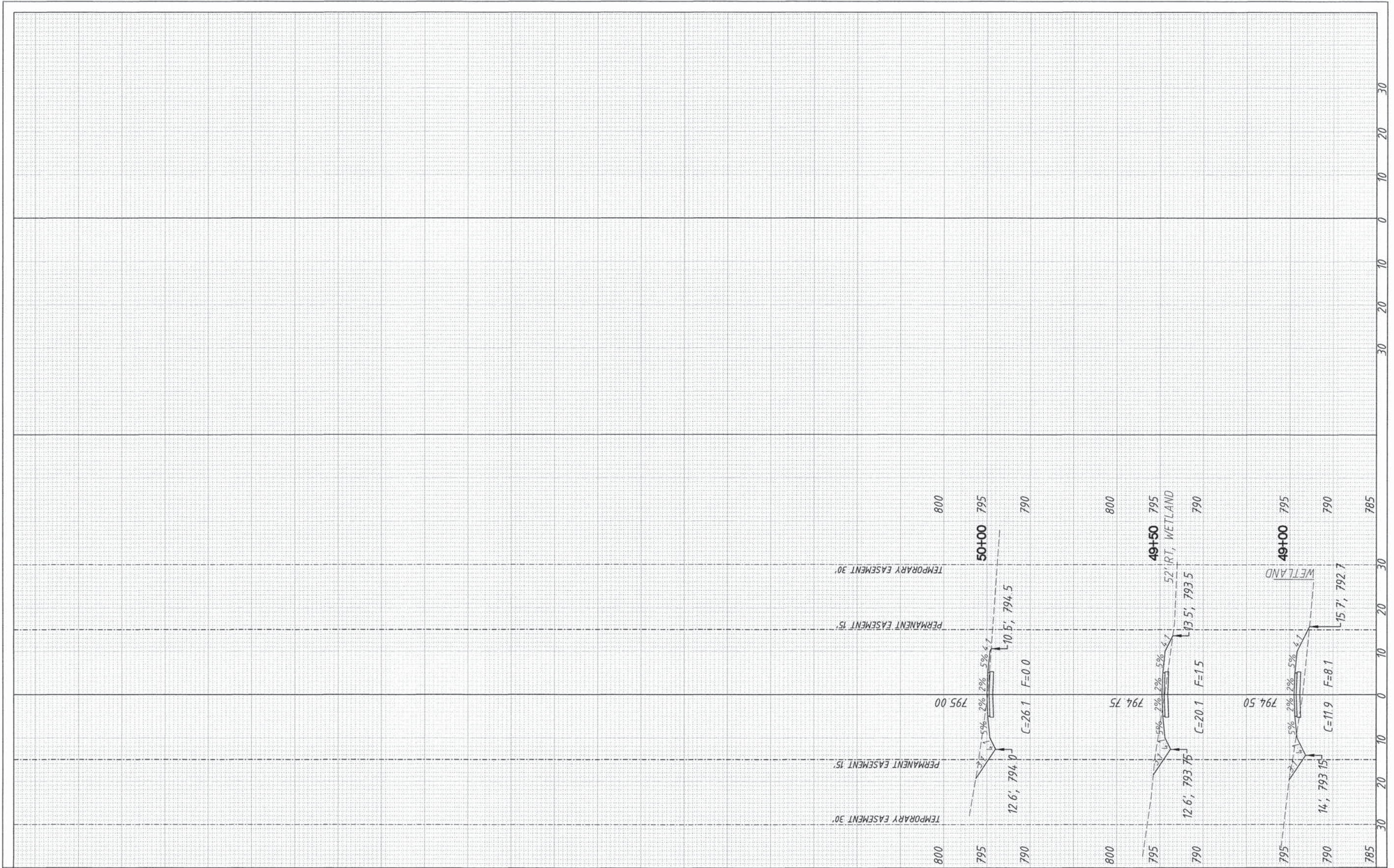
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FILE NAME =	USER NAME =	DESIGNED - TFM	REVISED - 03/16/15	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - TFM	REVISED -		SCALE: 1"=10'H, 1"=5'V	SHEET NO. 5 OF 6 SHEETS	STA. 41+50 TO STA. 48+50	13-09150-00-BT	LAKE	22	21
		CHECKED - TR	REVISED -					CONTRACT NO. 61B57			
		DATE - 12/05/14	REVISED -					ILLINOIS FED. AID PROJECT			





FILE NAME =

USER NAME =	DESIGNED - TFM	REVISED - 03/16/15
	DRAWN - TFM	REVISED -
PLOT SCALE =	CHECKED - TR	REVISED -
PLOT DATE = 03/16/15	DATE - 12/05/14	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
SCALE: 1"=10'H, 1"=5'V SHEET NO. 6 OF 6 SHEETS STA. 49+00 TO STA. 50+00

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13-09150-00-BT	LAKE	22	22
CONTRACT NO. 61B57			
ILLINOIS FED. AID PROJECT			