CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•754	101M&TS	BOONE	95	1

•(IL 76)

3-9-07 Letting, Item 100

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 754 (IL 76)
SECTION 101M&TS
PROJECT HSIP-0754(008)
BOONE COUNTY
C-92-117-06

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR STATE STANDARDS, SEE SHEET NO. 2

D-92-001-06

LOCATION OF SECTION INDICATED THUS:- ■

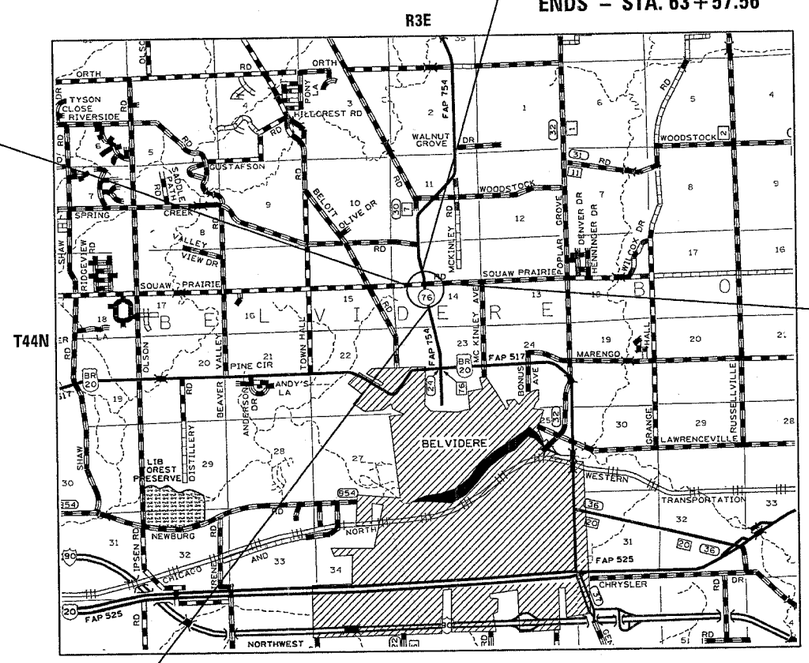
SECTION AND IMPROVEMENT BEGINS – STA. 229+89.48

BELVIDERE TOWNSHIP – SECTION 14

SECTION & IMPROVEMENT ENDS – STA. 63+57.56

SECTION ENDS – STA. 246+89
IMPROVEMENT ENDS – STA. 247+00

SECTION & IMPROVEMENT BEGINS – STA. 44+23.86



LOCATION MAP SCALE : 0 100' 200' 300' — 1" = 100' ; 0 10' 20' 30' — 1" = 10'
PLAN & PROFILE – HORIZONTAL : 0 50' 100' — 1" = 50'
PLAN & PROFILE – VERTICAL : 0 50' 100' — 1" = 40'
CROSS SECTIONS – HORIZONTAL : 0 50' 100' — 1" = 30'
CROSS SECTIONS – VERTICAL : 0 50' 100' — 1" = 20'

NET LENGTH OF PROJECT = 1933.7 FT = 0.366 MILE
GROSS LENGTH OF PROJECT = 3633.2 FT = 0.688 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED December 12 20 06
Joseph E Cronauer
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
February 2, 20 07
Eric E. Harm P.E.
Interim ENGINEER OF DESIGN AND ENVIRONMENT
February 2, 20 07
Milton R. Sees P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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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

CONTRACT NO. 64B81

FAP ROUTE 754 (IL 76) – SECTION 101M&TS – BOONE COUNTY

PROJECT ENGINEER: MASOOD AHMAD
(815) 284-5935
SENIOR SQUAD LEADER: SAM ABDULLAH
(815) 284-5935
SQUAD LEADER: CHAD SPREEMAN
(815) 284-5934

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	2
STA. _____	TO STA._____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

*(IL 76)

INDEX OF SHEETS AND STATE STANDARDS

INDEX OF SHEETS

STATE STANDARDS

000001-04	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-01	AREAS OF REINFORCEMENT REBARS
001006	DECIMAL OF AN INCH AND A FOOT
280001-03	TEMPORARY EROSION CONTROL SYSTEMS
420001-06	PAVEMENT JOINTS
442201-02	CLASS C AND D PATCHES
482001-01	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482011-02	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
542301-01	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-01	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
542311	GRATING FOR CONCRETE FLARED END SECTION FOR 600mm (24") THRU 1350mm (54") PIPE
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602601-01	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
606001-03	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606006-01	OUTLET FOR CURB AND GUTTER, TYPE B-15.60 (B-6.24)
635001	DELINEATORS
666001	RIGHT-OF-WAY MARKERS
667101	PERMANENT SURVEY MARKERS
701001-01	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 4.5m (15') AWAY
701006-02	OFF-ROAD OPERATIONS, 2L, 2W, 4.5m (15') TO 600mm (24") FROM PAVEMENT EDGE
701011-01	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45MPH
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-01	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45MPH
701311-02	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
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701502-01	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
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720016-01	MAST ARM MOUNTED STREET NAME SIGNS
728001	TELESCOPING STEEL SIGN SUPPORT
729001	APPLICATIONS OF TYPE A AND B METAL POSTS (FOR SIGNS AND MARKERS)
780001-01	TYPICAL PAVEMENT MARKINGS
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805001	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-01	HANDHOLES
814006-01	DOUBLE HANDHOLES
857001	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-01	TRAFFIC SIGNAL GROUNDING AND BONDING
877011-02	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
878001-05	CONCRETE FOUNDATION DETAILS
880006	TRAFFIC SIGNAL MOUNTING DETAILS

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 754 (IL 76)
SECTION 101M&TS
BOONE COUNTY

SCALE: VERT. HORIZ. DRAWN BY
DATE CHECKED BY

INDEX OF SHEETS - STATE STANDARDS

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GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 754 (IL 76)	101M&TS	Boone	95	3
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64B81				

See cross sections for special ditches and backslopes.

The removal of Bituminous Surfacing not on a rigid type base removed in conjunction with the base shall be removed as EARTH EXCAVATION. The removal of Bituminous Surfacing on a rigid type base removed in conjunction with the base shall be included in the contract unit price for PAVEMENT REMOVAL of the type specified.

The final top 100 mm (four inches) of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils.

The topsoil excavation quantities have been adjusted to allow for 25% shrinkage of topsoil between removal and replacement.

Program #6
(Arch. Size)
Enlarge
200%
Enlarge 107%

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 2A shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1. Class 2A shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches.

Previously pugmilled stockpiles of "Type A" older than 1 month will not be approved for use until a moisture check is run to verify moisture content. Material shipped to projects without being tested will not be accepted.

Placement and compaction of the backfill for AR culverts shall conform to Section 502.10 of the Standard Specifications, except that the material shall conform to the Interim Special Provision for COARSE AGGREGATE FOR TRENCH BACKFILL, BACKFILL AND BEDDING, and shall be compacted to a minimum of 95% of the standard laboratory density. The entire excavation, within 2 feet outside of each shoulder, shall be backfilled with trench backfill material to the bottom of the proposed subgrade. This trench backfill material will not be measured for payment, but shall be included in the contract unit price for the class of concrete involved or other unit price item of the work for which it is required.

The subgrade on this project, exclusive of rock cut areas is scheduled to be improved to a 300 mm (12") depth according to Mechanistic Pavement Design. The areas scheduled to be improved to a depth greater than 300 mm (12") are estimated based on the original geotechnical investigation. The subgrade shall be processed in accordance with Article 301.03 of the Standard Specifications before the engineer shall determine the limits and the additional thickness of improvement required, if any. Any additional undercutting required after this evaluation shall be paid for as EARTH EXCAVATION.

Except for the top 75 mm (3"), all aggregate bases and subbases 300 mm (12") in thickness shall be constructed of aggregate gradation CA-2. If the specified thickness exceeds 300 mm (12"), the bases or subbases shall be constructed of topsize 150 mm (6") breaker-run crushed stone with 70% to 90% by weight, passing the 4" sieve and 15% to 40% by weight, passing the 50 mm (2") size sieve, except for the top 75 mm (3"). The breaker-run crushed stone shall be reasonably uniformly graded from coarse to fine and be taken from a quarry ledge capable of producing Class "D" quality aggregate. The top 75 mm (3") shall be gradation CA-6 or CA-10 regardless of thickness. The water necessary to achieve compaction in all but the top 75 mm (3") layer may be added after the subbase or base course is placed on the grade.

Lateral distances from the centerline on all inlets are to the face of the inlet.

The existing hot-mix asphalt on private and commercial entrances shall be bladed off or milled and disposed of outside the project limits. The cost of the blading, milling, rolling, and disposal is included in the contract unit price for INCIDENTAL HOT-MIX ASPHALT SURFACING.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Surface	Level Binder	Binder
PG:	SBS 70-22	SBS 70-22	SBS 70-22
Design Air Voids	4.2 @ N90	4.2 @ N90	4.2 @ N90
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5	IL 9.5	IL 19.0
Friction Aggregate	D	N/A	N/A
20 Year ESAL	4.4	4.4	4.4

Mixture Uses(s):	Top Shoulder	Bottom Shoulder	Surface/Incidental	Binder	Level Binder
PG:	58-22	58-22	64-22	64-22	64-22
Design Air Voids	3 @ N50	2 @ N50	4.2 @ N50	4.2 @ N50	4.2 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5	BAM	IL 9.5 or 12.5	IL 19.0	IL 9.5
Friction Aggregate	C	N/A	D	N/A	N/A
20 Year ESAL	N/A	N/A	4.4	4.4	4.4

The Contractor will be required to furnish 140 mm (5 1/2") high brass stencils as approved by the Engineer and install stationing at 250' intervals. Stationing shall be placed on both lanes of 2-lane highways and on the outside lanes in both directions on 4-lane highways. The stations shall be placed 150 mm (6") inside the pavement marking edge so they can be read from the shoulder. This work will be included in the cost of the final pavement surface.

Reflective Crack Control shall be placed on the existing surface prior to any resurfacing, unless pavement is milled then it will be placed on the binder course.

On full depth pavement, shoulder widths of 6 ft. or less may be placed, at the Contractor's option, simultaneously with the adjacent traffic lane for both the binder and surface courses, provided the cross slope of both the pavement and shoulder can be satisfactorily obtained. The shoulder will be paid for at the contract unit price per Square Yard for HOT-MIX ASPHALT SHOULDERS of the thickness specified on the plans.

The material necessary to backfill the culvert extensions shall be obtained from Grading and Shaping Ditches and shall be included in the contract unit price for EARTH EXCAVATION.

The proposed pipes for entrances and side roads shall be placed in line with the existing or proposed ditch line.

Where field tile is encountered, storm sewer or pipe drain will be used in accordance with Section 611. The minimum size for replacement will be 150 mm (6") for Pipe Drains and 200 mm (8") for Storm Sewer, but the size must be at least 50 mm (2") larger than the adjoining tile. A Field Tile Junction Vault will be constructed at the right of way to connect the tile and storm sewer.

The excavated materials from earth excavation widening, grading and shaping ditches, and excavating and grading shoulders shall be used to build up the shoulder throughout the job to conform with the typical sections and shoulder widening for terminals as shown on the plans.

GENERAL NOTES

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 754 (IL 76)	101M&TS	Boone	95	4
FED ROAD DIST. NO.	ILLINOIS	PROJECT		
Contract #64B81				

Program #5
(Arch. Size)
Enlarge
200%
Enlarge 107%

Delineators shall be installed as shown in Standard 635001, except that the post shall be rotated 180° and only metal-backed delineators shall be permitted.

Delineators shall be placed at the ends of approach guardrail terminal sections, and at each headwall or end section of AR Culverts. This work will be paid for at the contract unit price each for DELINEATORS.

Pavement Marking shall be done according to Standard 780001, except as follows:

1. All words, such as ONLY, shall be 2.4 m (8 feet) high.
2. All non-freeway arrows shall be the large size.
3. The distance between yellow no-passing lines shall be 200 mm (8"), not 180 mm (7") as shown in the detail of Typical Lane and Edge Lines.

PERMANENT SURVEY MARKERS, TYPE II, shall be set at intervals of 1.6 Km (1 mile) or as directed by the Engineer. Bridge or culvert projects shall have one survey marker placed near the structure. Estimated: 2 Each.

Permanent Survey Markers, Type II shall be cast-in-place as shown on District Standard 66.2.

The Contractor shall submit to the Engineer a description of location, elevation, and coordinates for each permanent survey marker. The Engineer shall submit this information to the Survey Crew.

Aggregate Base Course, Type B, is provided in the plan quantities and shall be used only as needed when directed by the Engineer.

All gutter outlets shall be extended to ditch flow as directed by the Engineer.

Right-of-way markers will be erected with the back face of the marker on the right-of-way line unless the new right-of-way line has been surveyed and pinned, in which instance the right-of-way markers will be erected 300 mm (12 inches) inside the new right-of-way line.

Option B of District Standard 43.2, Right Turn Lane Construction, is the most feasible option since Squaw Prairie Road is a low volume road with no proposed island.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

Commonwealth Edison Co.	Verizon
AT&T	Nicor Gas Co.
Insight Communications of Rockford	

The applicable portions of Article 105.07 of the Standard Specification shall apply except for the following: The Contractor shall be responsible to locate the vertical depths of the underground utilities which may interfere with construction operations. This work will not be measured or paid for separately, but shall be considered as included in the unit bid price for the item of construction involved.

Per SB 699 (90 day utility relocation law), once right-of-way is clear to award the project, a notice will be sent to the utility companies instructing them to have their facilities relocated within 90 days. Estimated date relocation complete = Letting Date + 135 days.

CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any discrepancy or inconsistency arises between the electronic data and the information on the hard copy, the information on the hard copy should be used. Contact the District's Project Engineer to request these files.

The Contractor is required to contact Rich Maggi, District 2 Landscape Architect, at (815) 284-5404 before the swamp white oak at Lt. Sta. 61+75 is moved. The contractor shall transplant the swamp white oak within two weeks after project start-up.

Contractor staking shall include pavement marking layout according to the stations and offsets given on the plans or as directed by the Resident.

The Boone County Fair is scheduled for August 7 to 12, 2007 and the contractor shall plan his work to accommodate the increased traffic.

TRAFFIC SIGNAL NOTES

1. The mounting height for the luminaires on the combination mastarm assemblies shall be 35'-0", horizontal mounted with a 12' arm.

2. The "SIGNAL AHEAD" signs shall replace the existing "INTERSECTION AHEAD" signs on the existing post location on all four legs of the intersection. The Contractor shall contact Kurt Glazier (815/284-5478) at the Illinois Department of Transportation two (2) weeks prior to the signal turn-on.

3. The Pay Item "Remove Existing Traffic Signal Equipment" shall be performed by the Contractor and shall include all material and labor to complete.

The following items shall remain the property of the Illinois Department of Transportation:

4	EACH	SINGLE FACE FLASHING BEACON
1	EACH	TRAFFIC SIGNAL POST ASSEMBLY
3	EACH	FLASHER CONTROLLER

All other unmentioned equipment shall remain the property of the Contractor for salvage.

COMMITMENTS

1. Place temporary fence around trees at Lt. Sta. 62+70, Lt. Sta. 63+77, Lt. Sta. 234+95.5, and Lt. Sta. 237+27.5 to lessen impacts to their roots during construction.

2. Mrs. Grenke wants sod placed behind proposed curb and gutter along north side of the west leg of Squaw Prairie Road. Seeding is not an option.

3. Coordination must be sought between the contractor and Mrs. Grenke during funeral processions at the Highland Garden of Memories. Mrs. Grenke does not want loud construction noise during funeral procession. Mrs. Grenke said, "Each funeral procession typically lasts between 15 and 30 minutes in length." Hence, the contractor is responsible to lessen construction noise anytime a procession is taking place or at the discretion of the Resident Engineer in charge.

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	5

STA. ________ TO STA. ________

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

*(IL 76)

SUMMARY OF QUANTITIES

	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	1000-1A 90% FED / 10% STATE	Y031-1F 90% FED / 5% STATE/ 5% TOWNSHIP
	20101000	TEMPORARY FENCE	FOOT	100	100	
	20101700	SUPPLEMENTAL WATERING	UNIT	34.8	34.8	
	20200100	EARTH EXCAVATION	CU YD	13,381	13,381	
	20800150	TRENCH BACKFILL	CU YD	165	165	
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	11,005	11,005	
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	2,475	2,475	
*	25000100	SEEDING, CLASS 1	ACRE	1.00	1.00	
*	25000210	SEEDING, CLASS 2A	ACRE	2.50	2.50	
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	380	380	
*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	380	380	
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	380	380	
⊙ *	25000750	MOWING	ACRE	3.50	3.50	
*	25100115	MULCH, METHOD 2	ACRE	3.50	3.50	
	25100630	EROSION CONTROL BLANKET	SQ YD	16,572	16,572	
*	25200100	SODDING	SQ YD	3,863	3,863	
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,689	1,689	
	28000300	TEMPORARY DITCH CHECKS	EACH	18	18	
	28000400	PERIMETER EROSION BARRIER	FOOT	2,399	2,399	
	28000500	INLET AND PIPE PROTECTION	EACH	9	9	
	31100935	SUB-BASE GRANULAR MATERIAL, TYPE A 18"	SQ YD	6,279	6,279	
	31100965	SUB-BASE GRANULAR MATERIAL, TYPE A 24"	SQ YD	4,726	4,726	
	35101400	AGGREGATE BASE COURSE, TYPE B	TON	272	272	
	40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	12.3	12.3	
	40600300	AGGREGATE (PRIME COAT)	TON	32	32	
	40600545	LEVELING BINDER (HAND METHOD), N90	TON	10	10	
	40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	644	644	
	40600845	POLYMERIZED LEVELING BINDER (MACHINE METHOD), N90	TON	713	713	
	40600895	CONSTRUCTING TEST STRIP	EACH	1	1	
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	347	347	
	40600990	TEMPORARY RAMP	SQ YD	58	58	
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	917	917	
	40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	1,869	1,869	
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	724	724	
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	563	563	
	40603545	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	794	794	

*SPECIALTY ITEM ⊙ NON-PARTICIPATING

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 754 (IL 76)
SECTION 101M&TS
BOONE COUNTY

SCALE: VERT. HORIZ.
DATE
DRAWN BY
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SUMMARY OF QUANTITIES

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CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	6
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

*(IL 76)

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	1000-1A 90% FED / 10% STATE	Y031-1F 90% FED / 5% STATE/ 5% TOWNSHIP
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	43	43	
44002805	ISLAND REMOVAL	SQ FT	72	72	
44004250	PAVED SHOULDER REMOVAL	SQ YD	3,036	3,036	
44201735	CLASS D PATCHES, TYPE IV, 7 INCH	SQ YD	101	101	
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	7,179	7,179	
48203019	HOT-MIX ASPHALT SHOULDERS, 5 1/2"	SQ YD	4,619	4,619	
50105200	REMOVE EXISTING CULVERTS	EACH	2	2	
50800105	REINFORCEMENT BARS	POUND	40	40	
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	77	77	
542A5491	PIPE CULVERTS, CLASS A, TYPE 1 - EQUIVALENT ROUND-SIZE 36"	FOOT	22	22	
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	52	52	
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	148	148	
542D5491	PIPE CULVERTS, CLASS D, TYPE 1 - EQUIVALENT ROUND-SIZE 36"	FOOT	104	104	
54213453	END SECTIONS 18"	EACH	2	2	
54213459	END SECTIONS 24"	EACH	6	6	
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2	2	
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2	2	
54214311	END SECTIONS, EQUIVALENT ROUND-SIZE 36"	EACH	4	4	
54214521	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 36"	EACH	2	2	
54248510	CONCRETE COLLAR	CU YD	2.3	2.3	
550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	562	562	
60242700	INLETS, SPECIAL, NO. 3	EACH	2	2	
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	4.4	4.4	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	500	500	
63500105	DELINEATORS	EACH	18	18	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	32	32	
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	2	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	7	
67100100	MOBILIZATION	L SUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	25	25	

* SPECIALTY ITEM

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REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 754 (IL 76)
SECTION 101M&TS
BOONE COUNTY

SCALE: VERT. HORIZ.
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DATE
CHECKED BY

SUMMARY OF QUANTITIES

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	7
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

*(IL 76)

SUMMARY OF QUANTITIES

	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	1000-1A 90% FED / 10% STATE	Y031-1E 90% FED / 5% STATE / 5% TOWNSHIP
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	4	4	
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	1,463	1,463	
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	248	248	
*	72000100	SIGN PANEL - TYPE 1	SQ FT	12		12
*	72000200	SIGN PANEL - TYPE 2	SQ FT	32.5		32.5
*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	281	281	
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	19,704	19,704	
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1,893	1,893	
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	619	619	
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	132	132	
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	216	216	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	35	35	
*	80501000	SERVICE INSTALLATION, (SPECIAL)	EACH	1		1
	81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	3		3
	81400720	DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1		1
	81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	1,358		1,358
	82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	4		4
*	82500605	LIGHTING CONTROLLER PHOTOCELL RELAY	EACH	1		1
*	85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1		1
*	86200200	UNINTERRUPTABLE POWER SUPPLY, STANDARD	EACH	1		1
	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	377		377
	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,013		1,013
	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,190		2,190
	87301815	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 3 C	FOOT	21		21
	87502470	TRAFFIC SIGNAL POST, GALVANIZED STEEL 13 FT.	EACH	1		1
	87702920	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1		1
	87702930	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1		1
	87702940	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1		1
	87703000	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT.	EACH	1		1
	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6		6
	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3		3
	87800400	CONCRETE FOUNDATION, TYPE E - 30-INCH DIAMETER	FOOT	15.5		15.5
	87800415	CONCRETE FOUNDATION, TYPE E - 36-INCH DIAMETER	FOOT	46.75		46.75
	88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6		6

* SPECIALTY ITEM

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USER NAME = pslinnj

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 754 (IL 76)
SECTION 101M&TS
BOONE COUNTY

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

SUMMARY OF QUANTITIES

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	8

STA. _________ TO STA. _________

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

*(IL 76)

SUMMARY OF QUANTITIES

	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	I000-1A 90% FED / 10% STATE	Y031-1F 90% FED / 5% STATE/ 5% TOWNSHIP
	88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	8		8
	88040160	SIGNAL HEAD ,POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	6		6
	88200400	TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	12		12
*	K1005875	TREE TRANSPLANT	EACH	1	1	
	X0322674	STROBE LIGHT	EACH	2		2
	X0323153	ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C (GREEN)	FOOT	421		421
	X0324887	CONDUIT INSTALLED, 2 1/2" DIA., NON-METALLIC	FOOT	54		54
	X0324888	CONDUIT INSTALLED, 4" DIA., NON-METALLIC	FOOT	315		315
	X0325519	DRAIN FOR AGGREGATE BASE COURSE	SQ YD	37	37	
	X0962500	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	L SUM	1		1
	X0976500	END SECTIONS TO BE REMOVED	EACH	2	2	
*	XX003165	VIDEO CAMERA DETECTOR SYSTEM	EACH	1		1
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
	X0325335	CONDUIT INSTALLED, 1 1/2" DIA. NON-METALLIC	FOOT	11		11

* SPECIALTY ITEM

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REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 754 (IL 76)
SECTION 101M&TS
BOONE COUNTY

SCALE: VERT. HORIZ. DRAWN BY
DATE CHECKED BY

SUMMARY OF QUANTITIES

CONTRACT NO. 64B81

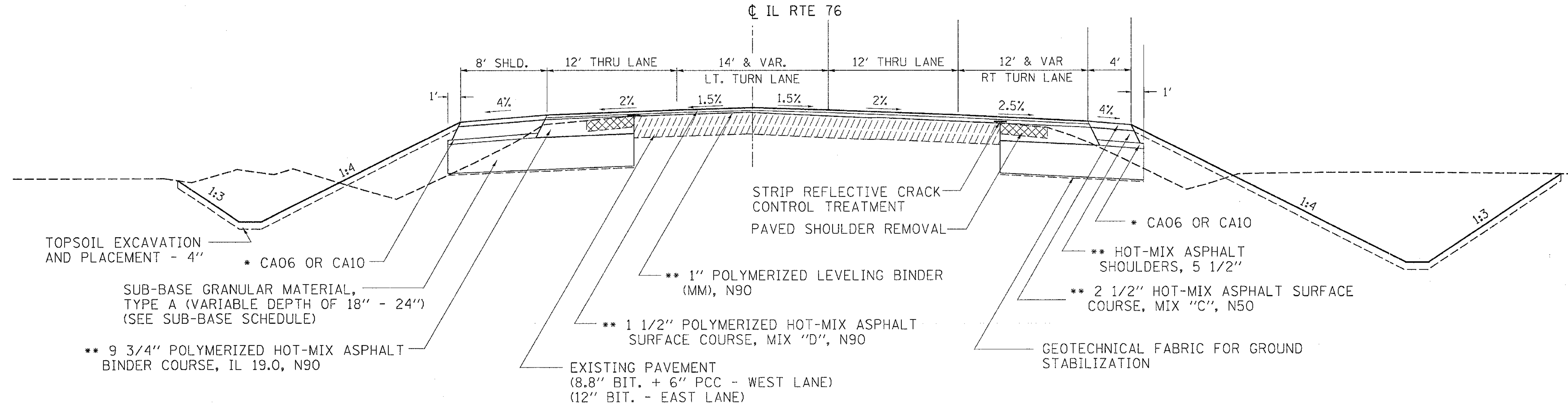
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	9
STA. __________	TO STA.__________			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

*(IL 76)

PROPOSED TYPICALS

IL 76

STA. 48+07.00 TO STA. 53+43.84

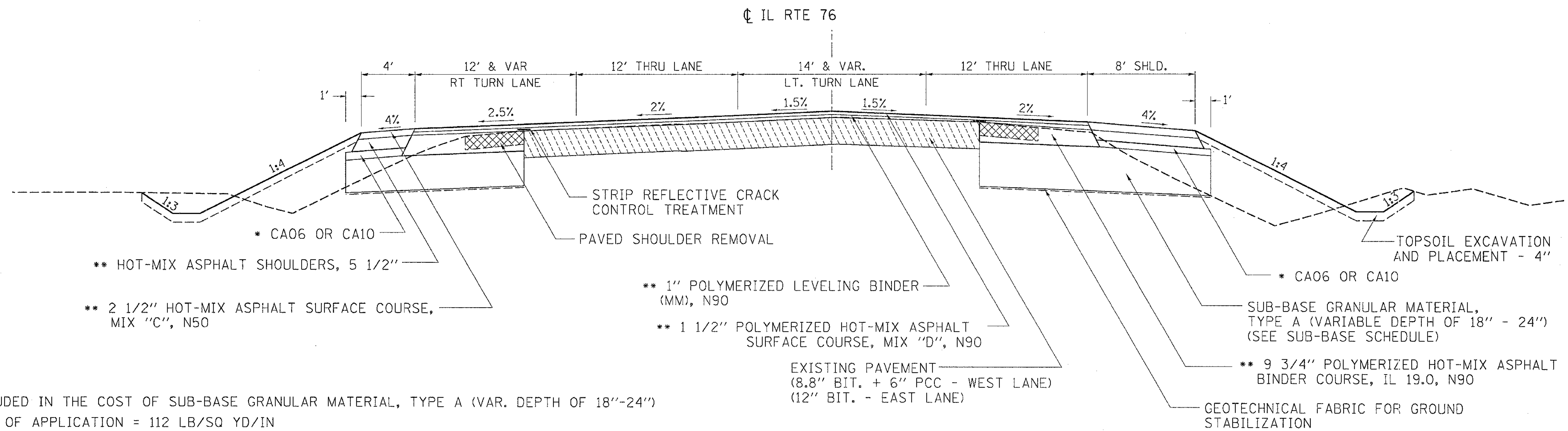


IL 76

STA. 53+43.84 TO STA. 59+65.00

EXISTING

REMOVAL



NOTES:

* INCLUDED IN THE COST OF SUB-BASE GRANULAR MATERIAL, TYPE A (VAR. DEPTH OF 18"-24")
** RATE OF APPLICATION = 112 LB/SQ YD/IN

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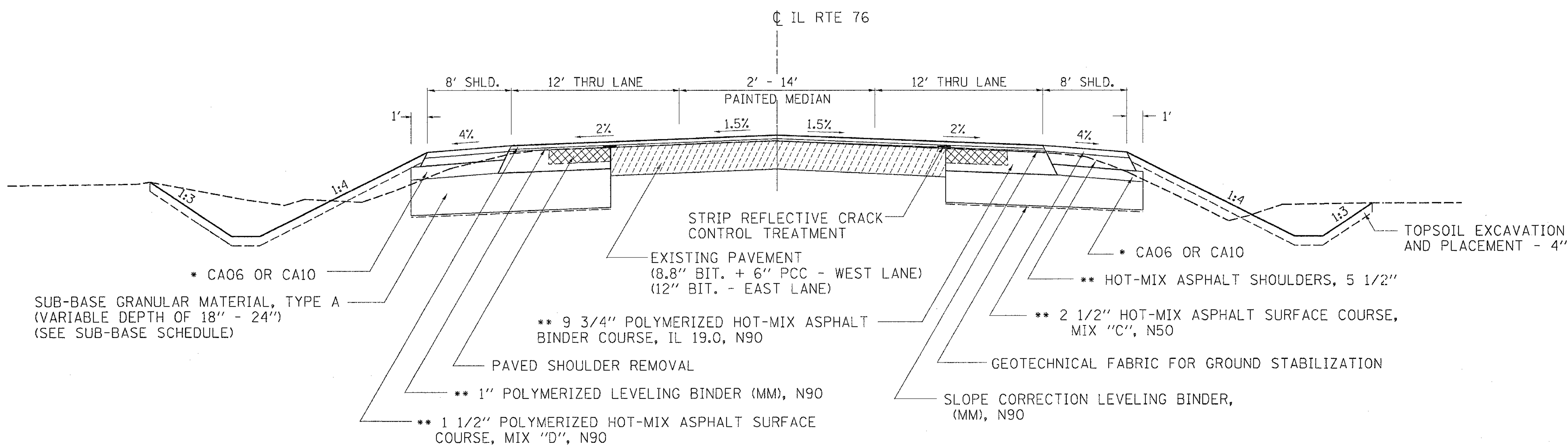
CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•754	101M&TS	BOONE	95	10
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

•(IL 76)

IL 76

STA. 44+73.86 TO STA. 48+07.00
STA. 59+65.00 TO STA. 63+07.56



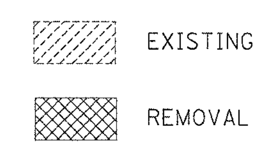
TYPICAL TAPER BUTT JOINT

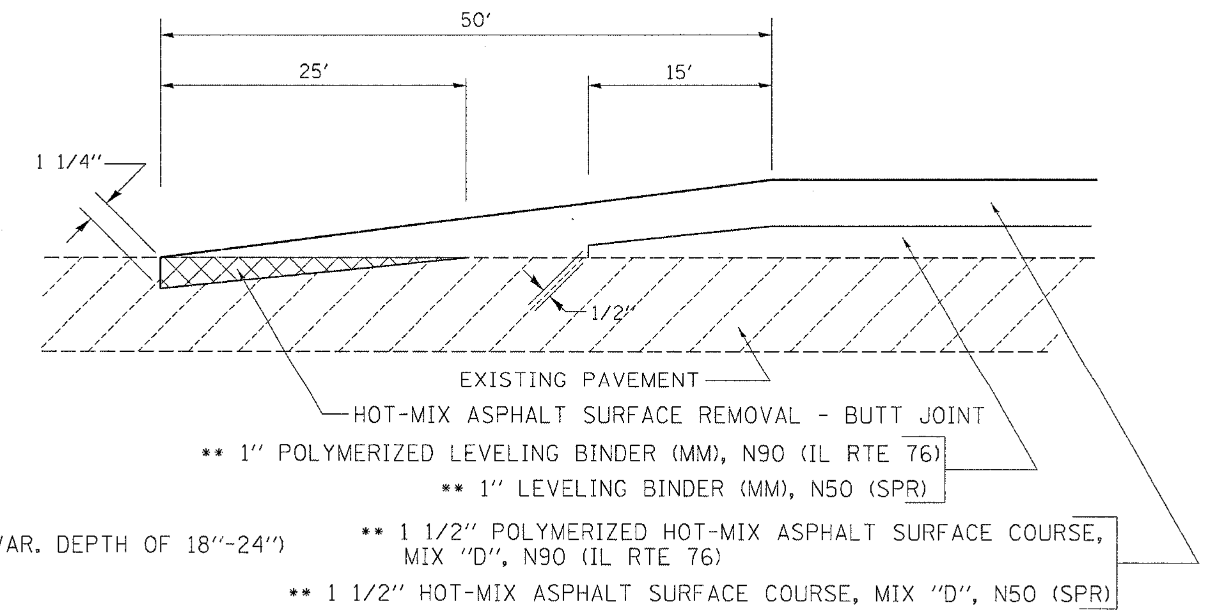
IL 76

STA. 44+23.86 - STA. 44+73.86
STA. 63+07.56 - STA. 63+57.56

SQUAW PRAIRIE ROAD (SPR)

STA. 229+89.48 - STA. 230+39.48
STA. 246+39.00 - STA. 246+89.00





NOTES:

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PROPOSED TYPICALS

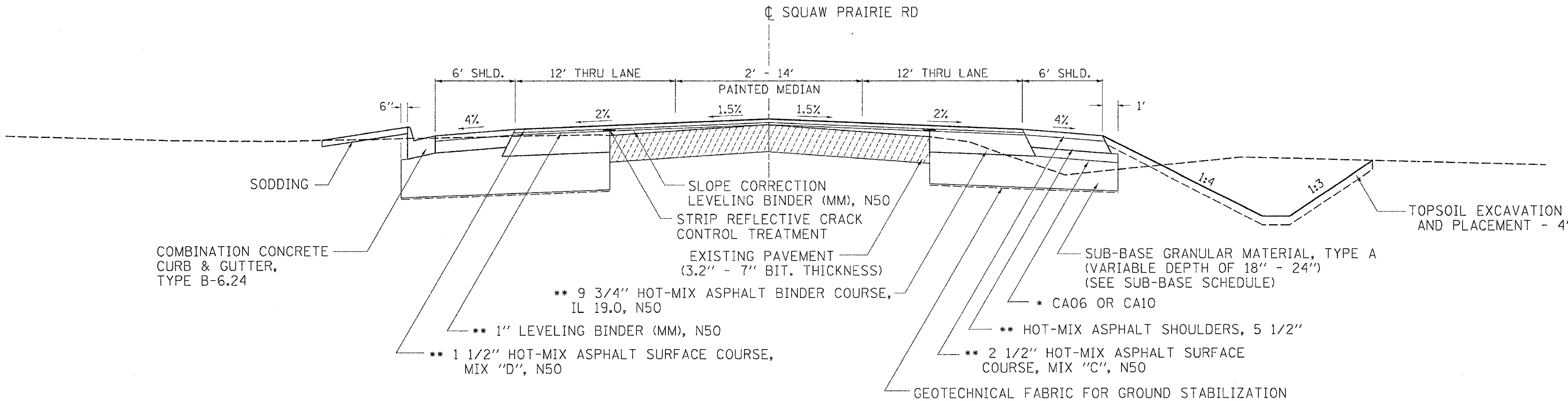
CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	11
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*(IL 76)

SQUAW PRAIRIE RD

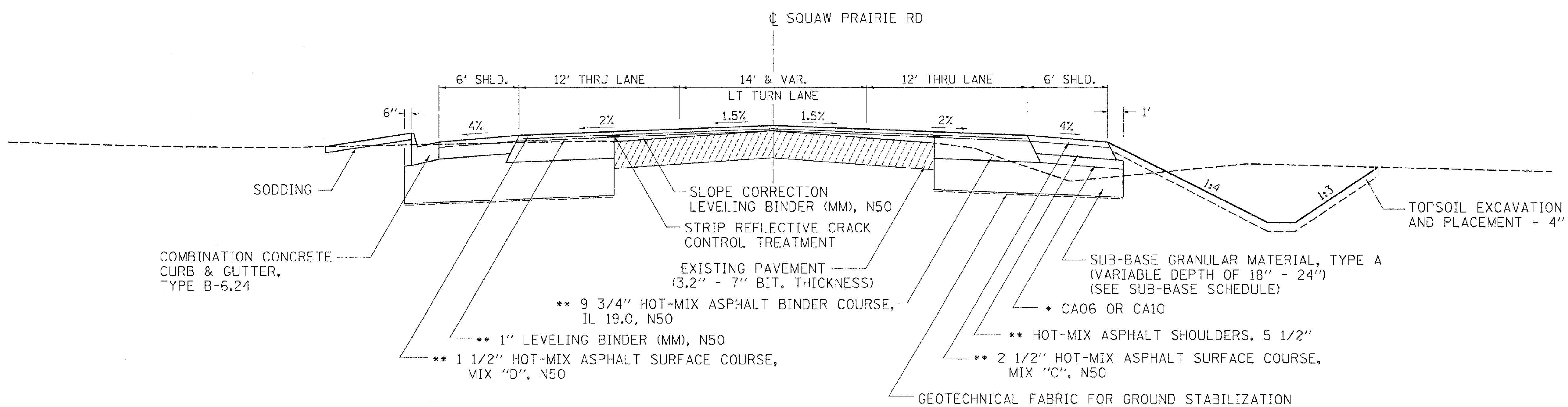
STA. 231+00 TO STA. 233+43.9



EXISTING

SQUAW PRAIRIE RD

STA. 233+43.9 TO STA. 236+00



NOTES:

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** RATE OF APPLICATION = 112 LB/SQ YD/IN

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USER NAME = polzinej

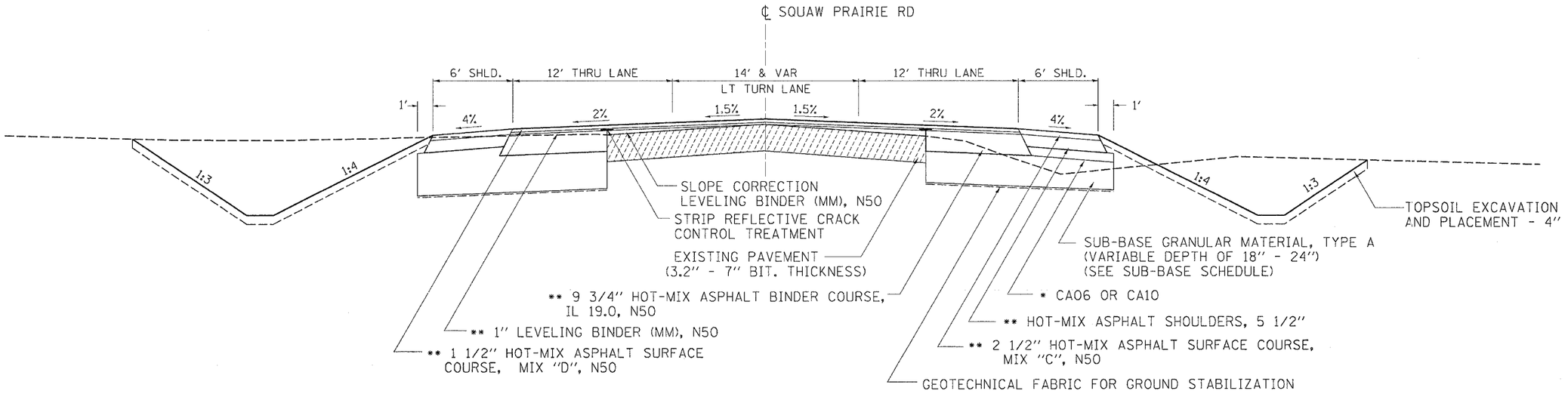
CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	12
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*(IL 76)

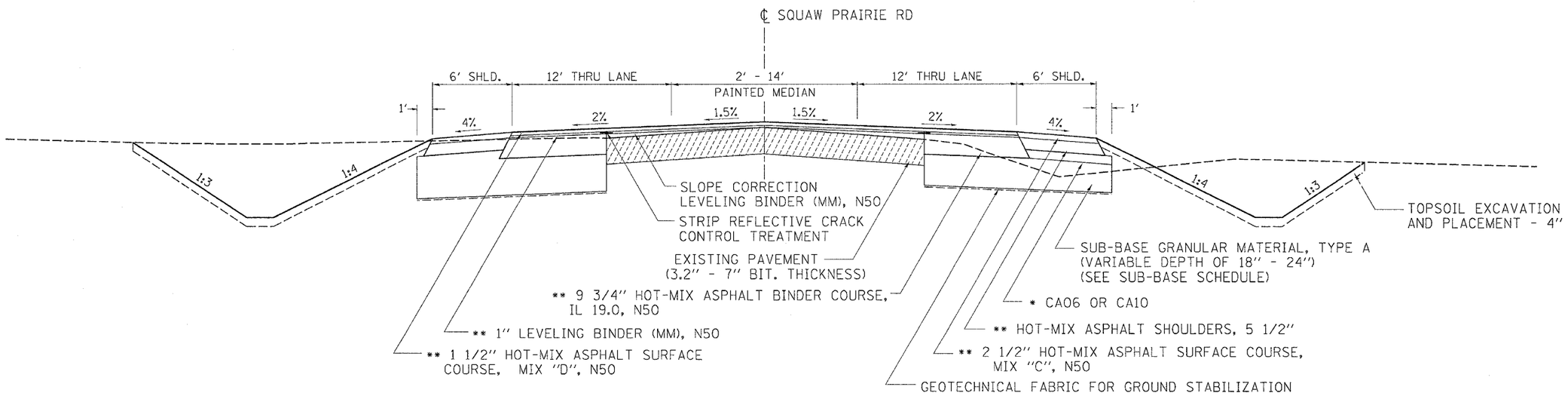
SQUAW PRAIRIE RD

STA. 236+00 TO STA. 243+50



SQUAW PRAIRIE RD

STA. 243+50 TO STA. 246+39
STA. 230+68.75 TO STA. 231+00



NOTES:

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** RATE OF APPLICATION = 112 LB/SQ YD/IN

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USER NAME = polarmaj

PROPOSED TYPICALS

SCHEDULE OF QUANTITIES

20101000 TEMPORARY FENCE

FOOT		LOCATION		REMARKS
		IL 76		
18.8	LT	Sta	62+ 70	47.7' LT o/s
18.8	LT	Sta	63+ 77	47.2' LT o/s
		Squaw Prairie Road		
31.4	LT	Sta	234+ 96.5	44.8' LT o/s
31.4	LT	Sta	237+ 27.5	61.7' LT o/s
100		TOTAL		

20101700 SUPPLEMENTAL WATERING

UNIT		LOCATION					REMARKS
		IL 76/Squaw Prairie Road					
34.8	LT	Sta	229+ 89.48	-	63+ 58	LT	NW Quadrant
34.8		TOTAL					

20800150 TRENCH BACKFILL

CU YD		LOCATION			
		Squaw Prairie Road			
165	LT	Sta	230+ 65	-	236+ 35
165		TOTAL			

25000100 SEEDING, CLASS 1

ACRE		LOCATION					REMARKS
		IL 76/Squaw Prairie Road					
0.93	RT	Sta	63+ 58	-	247+ 00	LT	NE Quadrant
1.00		TOTAL					

25000210 SEEDING, CLASS 2A

ACRE		LOCATION					REMARKS
		IL 76/Squaw Prairie Road					
1.25	RT	Sta	229+ 89	-	44+ 30	LT	SW Quadrant
1.24	RT	Sta	44+ 30	-	247+ 00	RT	SE Quadrant
2.50		TOTAL					

25000400 NITROGEN FERTILIZER NUTRIENT

POUND		LOCATION					REMARKS
		IL 76/Squaw Prairie Road					
83.7	RT	Sta	63+ 58	-	247+ 00	LT	NE Quad - Perm Seeding
112.8	RT	Sta	229+ 89	-	44+ 30	LT	SW Quad - Perm Seeding
111.7	RT	Sta	44+ 30	-	247+ 00	RT	SE Quad - Perm Seeding
71.8	LT	Sta	229+ 89.48	-	63+ 58	LT	NW Quad - Sodding
380		TOTAL					

25000500 PHOSPHORUS FERTILIZER NUTRIENT

POUND		LOCATION					REMARKS
		IL 76/Squaw Prairie Road					
83.7	RT	Sta	63+ 58	-	247+ 00	LT	NE Quad - Perm Seeding
112.8	RT	Sta	229+ 89	-	44+ 30	LT	SW Quad - Perm Seeding
111.7	RT	Sta	44+ 30	-	247+ 00	RT	SE Quad - Perm Seeding
71.8	LT	Sta	229+ 89.48	-	63+ 58	LT	NW Quad - Sodding
380		TOTAL					

25000600 POTASSIUM FERTILIZER NUTRIENT

POUND		LOCATION					REMARKS
		IL 76/Squaw Prairie Road					
83.7	RT	Sta	63+ 58	-	247+ 00	LT	NE Quad - Perm Seeding
112.8	RT	Sta	229+ 89	-	44+ 30	LT	SW Quad - Perm Seeding
111.7	RT	Sta	44+ 30	-	247+ 00	RT	SE Quad - Perm Seeding
71.8	LT	Sta	229+ 89.48	-	63+ 58	LT	NW Quad - Sodding
380		TOTAL					

25000750 MOWING

ACRE		LOCATION					REMARKS
		IL 76/Squaw Prairie Road					
0.93	RT	Sta	63+ 58	-	247+ 00	LT	NE Quadrant
1.25	RT	Sta	229+ 89	-	44+ 30	LT	SW Quadrant
1.24	RT	Sta	44+ 30	-	247+ 00	RT	SE Quadrant
3.50		TOTAL					

25100115 MULCH, METHOD 2

ACRE		LOCATION					REMARKS
		IL 76/Squaw Prairie Road					
0.93	RT	Sta	63+ 58	-	247+ 00	LT	NE Quad - Perm Seeding
1.25	RT	Sta	229+ 89	-	44+ 30	LT	SW Quad - Perm Seeding
1.24	RT	Sta	44+ 30	-	247+ 00	RT	SE Quad - Perm Seeding
3.42		TOTAL					

25100630 EROSION CONTROL BLANKET

SQ YD		LOCATION					
		IL 76/Squaw Prairie Road					
4498.9	RT	Sta	63+ 58	-	247+ 00	LT	NE Quad - Perm Seeding
6064.3	RT	Sta	229+ 89	-	44+ 30	LT	SW Quad - Perm Seeding
6008.3	RT	Sta	44+ 30	-	247+ 00	RT	SE Quad - Perm Seeding
16,572		TOTAL					

25200100 SODDING

SQ YD		LOCATION					REMARKS
		IL 76/Squaw Prairie Road					
3862.8	LT	Sta	229+ 89.48	-	63 + 58	LT	NW Quadrant
3863		TOTAL					

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 754 (IL 76)
SECTION 101M&TS
BOONE COUNTY

SCALE: VERT. HORIZ.
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FILE NAME = c:\projects\p200105\s00106cvr.dgn
PLOT SCALE = 50.0000 ' / IN.
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CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	14

STA. __________ TO STA.__________

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

*(IL 76)

SCHEDULE OF QUANTITIES

28000250 TEMPORARY EROSION CONTROL SEEDING

POUND		LOCATION					REMARKS
		IL 76/Squaw Prairie Road					
371.8	RT	Sta	63+ 58	-	247+ 00	LT	NE Quadrant
501.2	RT	Sta	229+ 89	-	44+ 30	LT	SW Quadrant
496.6	RT	Sta	44+ 30	-	247+ 00	RT	SE Quadrant
319.2	LT	Sta	229+ 89.48	-	63+ 58	LT	NW Quadrant
1689		TOTAL					

28000300 TEMPORARY DITCH CHECKS

EACH		LOCATION		OFFSET
		IL RTE 76		
1	RT	Sta	45+ 28	49' RT
1	RT	Sta	46+ 70	48' RT
1	RT	Sta	48+ 28	48' RT
1	RT	Sta	49+ 78	50' RT
1	RT	Sta	51+ 28	53' RT
1	RT	Sta	55+ 25	41' RT
1	LT	Sta	55+ 46	47' LT
1	RT	Sta	56+ 75	40' RT
1	LT	Sta	56+ 96	45' LT
1	RT	Sta	58+ 25	38' RT
1	RT	Sta	59+ 75	39' RT
1	LT	Sta	60+ 61	36' LT
1	RT	Sta	61+ 25	37' RT
1	LT	Sta	62+ 11	36' LT
		Squaw Prairie Road		
1	LT	Sta	240+ 94	45' LT
1	LT	Sta	243+ 07	42' LT
1	RT	Sta	244+ 37	37' RT
1	LT	Sta	245+ 65	33' LT
18		TOTAL		

28000400 PERIMETER EROSION BARRIER

FOOT		LOCATION					REMARKS
		IL 76/Squaw Prairie Road					
700	RT	Sta	230+ 00	-	237+ 00		
1699	LT	Sta	230+ 00	-	63+ 00	LT	NW Quadrant
2399		TOTAL					

28000500 INLET AND PIPE PROTECTION

EACH		LOCATION	
		IL RTE 76	
1	LT	Sta	50+ 10
1	LT	Sta	59+ 10
1	RT	Sta	63+ 10
		Squaw Prairie Road	
1	LT	Sta	230+ 65
1	LT	Sta	238+ 00
1	LT	Sta	240+ 27.82
1	RT	Sta	242+ 00
1	LT	Sta	242+ 10
1	LT	Sta	244+ 55
9		TOTAL	

40600545 LEVELING BINDER (HAND METHOD), N90

TON	LOCATION
	IL 76/Squaw Prairie Road
10	As Needed & Directed by the R.E.
10	TOTAL

40600895 CONSTRUCTING TEST STRIP

EACH	LOCATION
1	IL RTE 76/Squaw Prairie Road
1	TOTAL

40600982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

SQ YD	LOCATION			
	IL RTE 76			
106.9	Sta	44+ 23.86	-	44+ 48.86
107.8	Sta	63+ 32.56	-	63+ 57.56
	Squaw Prairie Road			
66.2	Sta	229+ 89.48	-	230+ 14.48
65.8	Sta	246+ 64	-	246+ 89
347	TOTAL			

40600990 TEMPORARY RAMP

SQ YD	LOCATION	
	IL RTE 76 @ 4'-2" Ramps	
17.8	Sta	44+ 23.86
18.0	Sta	63+ 57.56
	Squaw Prairie Road @ 4'-2" Ramps	
11.0	Sta	229+ 89.48
11.0	Sta	246+ 89
58	TOTAL	

44002805 ISLAND REMOVAL

SQ FT		LOCATION			
		IL RTE 76			
72	LT	Sta	53+ 15.72	-	53+ 27.17
72					

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 754 (IL 76)
SECTION 101M&TS
BOONE COUNTY

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SCHEDULE OF QUANTITIES

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CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	15

STA. __________ TO STA. __________

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

*(IL 76)

SCHEDULE OF QUANTITIES

44004250 PAVED SHOULDER REMOVAL

SQ YD		LOCATION				
		IL RTE 76				
811.4	LT	Sta	44+ 73.87	-	238+ 01.76	RT
683.9	RT	Sta	44+ 73.87	-	239+ 98.19	RT
730.8	LT	Sta	238+ 08.71	-	63+ 07.56	LT
809.5	LT	Sta	239+ 53.72	-	62+ 89.35	RT
3,036						

44201735 CLASS D PATCHES, TYPE IV, 7 INCH

SQ YD	LOCATION				REMARKS
	Squaw Prairie Road				
101	Sta	240+ 09	-	240+ 47	NEW PIPE CULV, CL. A, TY. 2, 24" ACROSS SPR
101					

50105200 REMOVE EXISTING CULVERTS

EACH		LOCATION	
		IL 76	
1	LT	Sta	49 + 76.3
1	LT	Sta	58 + 74
2		TOTAL	

50800105 REINFORCEMENT BARS

POUND		LOCATION	
		Squaw Prairie Road	
20	LT	Sta	238+ 00.8
20	RT	Sta	238+ 00.8
40		TOTAL	

542A1069 PIPE CULVERTS, CLASS A, TYPE 2 24"

FOOT	LOCATION	
	Squaw Prairie Road	
76.5	Sta	240+ 27.82
77	TOTAL	

542A5491 PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"

FOOT		LOCATION	
		Squaw Prairie Road	
12	LT	Sta	238+ 00.8
10	RT	Sta	238+ 00.8
22		TOTAL	

54200223 PIPE CULVERTS, CLASS D, TYPE 1 18"

FOOT		LOCATION	
		IL RTE 76	
52	RT	Sta	62+ 88.4
52		TOTAL	

54200229 PIPE CULVERTS, CLASS D, TYPE 1 24"

FOOT		LOCATION	
		Squaw Prairie Road	
46	RT	Sta	241+ 68.6
52	LT	Sta	241+ 86.9
50	LT	Sta	244+ 26.8
148		TOTAL	

54205491 PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 36"

FOOT		LOCATION	
		IL RTE 76	
46	LT	Sta	49+ 76.3
58	LT	Sta	58+ 74
104		TOTAL	

54213453 END SECTIONS 18"

EACH		LOCATION	
		IL RTE 76	
2	RT	Sta	62+ 88.4
2		TOTAL	

54213459 END SECTIONS 24"

EACH		LOCATION	
		Squaw Prairie Road	
2	RT	Sta	241+ 68.6
2	LT	Sta	241+ 86.9
2	LT	Sta	244+ 26.8
6		TOTAL	

54213669 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"

EACH	LOCATION	
	Squaw Prairie Road	
2	Sta	240+ 27.82
2	TOTAL	

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ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 754 (IL 76)
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CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	16
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

*(IL 76)

SCHEDULE OF QUANTITIES

54213675 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"

EACH		LOCATION		REMARKS
		Squaw Prairie Road		
1	LT	Sta	230+ 65	2650' LT. OS
1	LT	Sta	236+ 35	3650' LT. OS
2		TOTAL		

54214311 END SECTIONS, EQUIVALENT ROUND-SIZE 36"

EACH		LOCATION	
		IL RTE 76	
2	LT	Sta	49+ 76.3
2	LT	Sta	58+ 74
4		TOTAL	

54214521 PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 36"

EACH		LOCATION	
		Squaw Prairie Road	
2		Sta	238+ 00.8
2		TOTAL	

54248510 CONCRETE COLLAR

CU YD		LOCATION		REMARKS
		Squaw Prairie Road-West Leg		
1.15	LT	Sta	238+ 00.8	AROUND EQUIV ROUND-SIZE 36" PIPE CULVERT
1.15	RT	Sta	238+ 00.8	AROUND EQUIV ROUND-SIZE 36" PIPE CULVERT
2.3		TOTAL		

550A0140 STORM SEWERS, CLASS A, TYPE 1 30"

FOOT		LOCATION			
		Squaw Prairie Road			
198	LT	Sta	230+ 65	-	232+ 65
166	LT	Sta	232+ 65	-	234+ 35
198	LT	Sta	234+ 35	-	236+ 35
562		TOTAL			

60242700 INLETS, SPECIAL, NO. 3

EACH		LOCATION	
		Squaw Prairie Road	
1	LT	Sta	232+ 65
1	LT	Sta	234+ 35
2		TOTAL	

60600095 CLASS SI CONCRETE (OUTLET)

CU YD		LOCATION			
		Squaw Prairie Road			
1.2	LT	Sta	230 + 88	-	231 + 00
3.2	LT	Sta	236 + 00	-	236 + 35
4.4		TOTAL			

60605000 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24

FOOT		LOCATION			
		Squaw Prairie Road			
500	LT	Sta	231 + 00	-	236 + 00
500		TOTAL			

63500105 DELINEATORS

EACH		LOCATION		REMARKS
		IL RTE 76		
2	LT	Sta	49+ 76.3	END SECTIONS, EQUIVALENT ROUND-SIZE 36"
2	LT	Sta	58+ 74	END SECTIONS, EQUIVALENT ROUND-SIZE 36"
2	RT	Sta	62+ 88.4	END SECTIONS 18"
		Squaw Prairie Road		
1	LT	Sta	230+ 65	FFC FLARED END SECTION 30"
1	LT	Sta	236+ 35	FFC FLARED END SECTION 30"
1	LT	Sta	238+ 00.8	FFC END SECTION, EQUIV. ROUND-SIZE 36"
1	RT	Sta	238+ 00.8	FFC END SECTION, EQUIV. ROUND-SIZE 36"
1	LT	Sta	240+ 27.82	FFC FLARED END SECTION 24"
1	RT	Sta	240+ 27.82	FFC FLARED END SECTION 24"
2	RT	Sta	241+ 68.6	END SECTIONS 24"
2	LT	Sta	241+ 86.9	END SECTIONS 24"
2	LT	Sta	244+ 26.8	END SECTIONS 24"
18		TOTAL		

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 754 (IL 76)
SECTION 101M&TS
BOONE COUNTY

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SCHEDULE OF QUANTITIES

SCHEDULE OF QUANTITIES

66600105 FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

EACH		LOCATION		OFFSET (FEET)
		IL RTE 76		
1	LT	Sta	44+ 00	50.4
1	RT	Sta	44+ 00	49.69
1	LT	Sta	45+ 00	75.00
1	RT	Sta	45+ 00	70.00
1	LT	Sta	48+ 00	75.00
1	RT	Sta	49+ 00	80.00
1	RT	Sta	50+ 00	85.00
1	LT	Sta	51+ 00	65.00
1	RT	Sta	52+ 00	85.00
1	LT	Sta	52+ 62.43	65.00
1	RT	Sta	54+ 25	65.00
1	LT	Sta	54+ 50	70.00
1	LT	Sta	55+ 00	60.42
1	RT	Sta	55+ 00	60.00
1	RT	Sta	63+ 00	60.00
1	RT	Sta	64+ 00	42.54
		Squaw Prairie Road		
1	RT	Sta	229+ 00	27.83
1	RT	Sta	231+ 00	45.00
1	LT	Sta	231+ 00	29.92
1	RT	Sta	233+ 00	50.00
1	LT	Sta	233+ 50	35.00
1	LT	Sta	235+ 00	35.00
1	LT	Sta	236+ 50	60.00
1	RT	Sta	236+ 99.76	49.97
1	LT	Sta	238+ 00	65.00
1	LT	Sta	240+ 00	75.00
1	RT	Sta	240+ 50	70.00
1	RT	Sta	242+ 50	70.00
1	RT	Sta	246+ 00	50.00
1	LT	Sta	246+ 00	50.00
1	RT	Sta	247+ 00	26.92
1	LT	Sta	247+ 00	27.08
32		TOTAL		

78000100 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS

SQ FT	LOCATION				REMARKS
	IL RTE 76				
93.6	Sta	50+ 07.51	-	52+ 71.10	"Right & Left Turn Arrows"
93.6	Sta	54+ 16.44	-	56+ 79.75	"Right & Left Turn Arrows"
	Squaw Prairie Road				
46.8	Sta	235+ 63.69	-	238+ 18.72	"Left Turn Arrows"
46.8	Sta	239+ 83.57	-	241+ 28.65	"Left Turn Arrows"
281	TOTAL				

78000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4"

FOOT		LOCATION				REMARKS
		IL RTE 76				
500.0	RT	Sta	40 + 07.51	-	45 + 07.51	Yellow No Pass
3138.4		Sta	45 + 07.51	-	52+ 91.10	Median - Double Yellow No Pass
3478.2		Sta	53 + 96.21	-	62+ 64.75	Median - Double Yellow No Pass
908.7	LT	Sta	44 + 23.86	-	53 + 32.55	EOP - White
872.1	RT	Sta	44 + 23.86	-	52 + 95.96	EOP - White
966.3	LT	Sta	53 + 91.22	-	63 + 57.56	EOP - White
1002.8	RT	Sta	53 + 54.76	-	63 + 57.56	EOP - White
		Squaw Prairie Road				
3064.0		Sta	230 + 73.69	-	238 + 38.69	Median - Double Yellow No Pass
2624.0		Sta	239 + 63.65	-	246 + 18.65	Median - Double Yellow No Pass
849.2	LT	Sta	229 + 89.47	-	238 + 38.69	EOP - White
849.2	RT	Sta	229 + 89.47	-	238 + 38.69	EOP - White
725.3	LT	Sta	239 + 63.65	-	246 + 89	EOP - White
725.3	RT	Sta	239 + 63.65	-	246 + 89	EOP - White
19704		TOTAL				

78000500 THERMOPLASTIC PAVEMENT MARKING - LINE 8"

FOOT		LOCATION				REMARKS
		IL RTE 76				
311.6	RT	Sta	49 + 87.51	-	52 + 99.10	White Edge Line For Left/Thru Lanes
326.3	RT	Sta	49 + 87.51	-	53 + 13.86	White Edge Line For Right/Thru Lanes
70.7	RT	Sta	52 + 81.87	-	53 + 13.86	Island - White
326.3	LT	Sta	53 + 73.49	-	56 + 99.75	White Edge Line For Right/Thru Lanes
311.5	LT	Sta	53 + 88.21	-	56 + 99.75	White Edge Line For Left/Thru Lanes
70.5	LT	Sta	53 + 73.49	-	54 + 05.39	Island - White
		Squaw Prairie Road				
293.0	RT	Sta	235 + 43.69	-	238 + 36.69	White Edge Line For Left/Thru Lanes
183.0	LT	Sta	239 + 65.65	-	241 + 48.65	White Edge Line For Left/Thru Lanes
1893		TOTAL				

78000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12"

FOOT		LOCATION				REMARKS
		IL RTE 76				
128.7		Sta	45 + 12	-	49 + 56	Median - Yellow Diagonals
47.5	RT	Sta	52 + 81.87	-	53+ 13.86	Island - White Diagonals
47.8	LT	Sta	53+ 73.49	-	54+ 05.39	Island - White Diagonals
148.3		Sta	57+ 31	-	62+ 35	Median - Yellow Diagonals
		Squaw Prairie Road				
124.4		Sta	231+ 03	-	235+ 17	Median - Yellow Diagonals
121.8		Sta	241+ 75	-	245+ 90	Median - Yellow Diagonals
619		TOTAL				

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ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 754 (IL 76)
SECTION 101M&TS
BOONE COUNTY

SCALE: VERT. HORIZ. DRAWN BY
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SCHEDULE OF QUANTITIES

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	18
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

*(IL 76)

SCHEDULE OF QUANTITIES

78000650 THERMOPLASTIC PAVEMENT MARKING - LINE 24"

FOOT		LOCATION			REMARKS
		IL RTE 76			
12		Sta	52+ 91.10		Stop Bar
12	RT	Sta	52+ 99.10		Stop Bar
18	RT	Sta	53+ 00		Stop Bar-Rt. Turn Ln.
12	LT	Sta	53+ 88.21		Stop Bar
12		Sta	53+ 96.21		Stop Bar
18	LT	Sta	54+ 00		Stop Bar-Rt. Turn Ln.
		Squaw Prairie Road			
24		Sta	238+ 38.69		Stop Bar
24		Sta	239+ 63.65		Stop Bar
132		TOTAL			

78100100 RAISED REFLECTIVE PAVEMENT MARKER

EACH		LOCATION				REMARKS
		IL RTE 76				
4		Sta	44 + 27.51	-	45+ 07.51	Two-way Amber
22		Sta	45 + 48	-	49+ 48	One-way Amber
18	LT	Sta	49 + 87.51	-	52 + 89.10	Two-way Amber
16	RT	Sta	49 + 87.51	-	52 + 67.51	One-way Crystal
16	LT	Sta	54 + 19.75	-	56 + 99.75	One-way Crystal
18	RT	Sta	53 + 98.21	-	57 + 04	Two-way Amber
26		Sta	57 + 43	-	62 + 23	One-way Amber
4		Sta	62 + 64.75	-	63 + 44.75	Two-way Amber
		Squaw Prairie Road				
4		Sta	229 + 93.69	-	230 + 73.69	Two-way Amber
22		Sta	231 + 14.5	-	235 + 14.5	One-way Amber
9	RT	Sta	235 + 43.69	-	238 + 36.69	One-way Crystal
16	LT	Sta	235 + 54	-	238 + 34	Two-way Amber
6	LT	Sta	239 + 65.65	-	241 + 48.65	One-way Crystal
10	RT	Sta	239 + 78	-	241 + 37.5	Two-way Amber
22		Sta	241 + 78	-	245 + 78	One-way Amber
3		Sta	246 + 18.65	-	246 + 58.65	Two-way Amber
216		TOTAL				

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

EACH	LOCATION
	IL 76
5	NW Quadrant Right Turn Lanes
5	SE Quadrant Right Turn Lanes
25	Along Centerline of Roadway
35	TOTAL

K1005875 TREE TRANSPLANT

EACH		LOCATION		REMARKS
		IL 76		
1	LT	Sta	61 + 75	5 1/2" Trunk Diameter Swamp White Oak
1		TOTAL		

X0976500 END SECTIONS TO BE REMOVED

EACH		LOCATION	
		Squaw Prairie Road	
1	LT	Sta	238+ 00.8
1	RT	Sta	238+ 00.8
2		TOTAL	

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 754 (IL 76)
SECTION 101M&TS
BOONE COUNTY

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CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	19

STA. __________ TO STA. __________

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

*(IL 76)

BITUMINOUS SCHEDULE

							40600200	40600300	40600625	40600845	40603080	40603240	40603310	40603335	40603545	40800050	44300200	48203019	70300100	70301000
Location	Remarks	Length	Proposed Surface Areas				Bit Materials Prime Coat (2 Applications)	Agg Prime Coat	Leveling Binder (MM), N50 (Calc @ 1 1/4")	Polymerized Leveling Binder (MM), N90 (Calc @ 1 1/4")	Hot-Mix Asphalt Binder Cse, IL-19.0, N50	Polymerized Hot-Mix Asphalt Binder Cse, IL-19.0, N90	Hot-Mix Asphalt Surface Cse, Mix "C", N50	Hot-Mix Asphalt Surface Cse, Mix "D", N50	Polymerized Hot-Mix Asphalt Surface Cse, Mix "D", N90	Incidental Hot-Mix Asphalt Surfacing	Strip Reflective Crack Control Treatment	Hot-Mix Asphalt Shoulders, 5 1/2"	Short-Term Pavt Marking (3 Applications)	Work Zone Pavement Marking Removal
			Shoulder	Widening	Width	Existing														
		Feet	Sq Yd	Sq Yd	Feet	Sq Yd	Ton	Ton	Ton - 1"	Ton - 1"	Ton - 9 3/4"	Ton - 9 3/4"	Ton - 2 1/2"	Ton - 1 1/2"	Ton - 1 1/2"	Ton - 2"	Foot	Sq Yd	Foot	Sq Ft
IL 76-Mainline																				
Sta 44+23.86 - 44+73.86	Taper/Butt-Joint	50.00	93.87		22	122.09	0.12	0.32		8.5			13.14		10.3		100		15.0	1.7
Sta 63+07.56 - 63+57.56	Taper/Butt-Joint	50.00	90.37		22	125.07	0.12	0.32		8.8			12.65		10.5		100		15.0	1.7
LT Sta 43+73.86 - 52+08.77	Shoulder	834.91	653.31		4-8		0.37	0.98					91.46					653.31	33.4	11.1
RT Sta 43+73.86 - 52+52.51	Shoulder & Widening	878.65	513.56	798.89	9.5-24		0.75	1.97		55.9		436.2	71.90		67.1			513.56	35.1	11.7
LT Sta 54+34.75 - 63+07.56	Shoulder & Widening	872.81	575.63	858.22	8-22		0.82	2.15		60.1		468.6	80.59		72.1			575.63	34.9	11.6
RT Sta 54+78.53 - 62+10.65	Shoulder & Widening	732.12	738.90	578.14	8-16		0.75	1.98		40.5		315.7	103.45		48.6			738.90	29.3	9.8
LT Sta 44+73.86 - 53+00.00	Widening	826.14		572.17	1-8		0.33	0.86		40.1		312.4			48.1					
Sta 44+73.86 - 63+07.56	Existing IL 76	1833.70			22-34	5516.51	3.16	8.27		386.2					463.4		3667		550.1	61.1
Sta 44+50 - 56+50	Slope Correction	1200.00			Var					69.6										
Sta 52+91.1	Stop Bar	---																	36.0	12.0
Sta 53+96.21	Stop Bar	---																	36.0	12.0
Squaw Prairie Road (SPR)																				
Sta 229+89.48 - 230+39.48	Taper/Butt-Joint	50.00	51.64		24	132.69	0.11	0.28	9.3				7.23		11.1		100		15.0	1.7
Sta 246+39.00 - 246+89.00	Taper/Butt-Joint	50.00	53.94		24	131.61	0.11	0.28	9.2				7.55		11.1		100		15.0	1.7
LT Sta 230+39.48 - 238+29.13	Shoulder	789.65	526.41		6		0.30	0.79					73.70					526.41	31.6	10.5
RT Sta 230+39.48 - 237+38.25	Shoulder	698.77	467.81		6		0.27	0.70					65.49					467.81	28.0	9.3
RT Sta 240+64.26 - 246+39.00	Shoulder	574.74	385.41		6		0.22	0.58					53.96					385.41	23.0	7.7
LT Sta 239+73.19 - 246+39.00	Shoulder & Widening	665.81	443.96	436.59	1-13		0.50	1.32	30.6		238.4		98.83	36.67				443.96	26.6	8.9
LT Sta 230+39.47 - 238+30.85	Widening	791.38		494.31	1-15		0.28	0.74	34.6		269.9			41.5						
RT Sta 231+01.34 - 237+38.25	Widening	636.91		419.28	1-6		0.24	0.63	29.3		228.9			35.2						
RT Sta 240+64.26 - 246+11.91	Widening	547.65		329.71	1-6		0.19	0.49	23.1		180.0			27.7						
Sta 230+39.48 - 238+74.48	Existing SPR West	835.00			24	2913.69	1.67	4.37	204.0					244.7			1670		250.5	27.8
Sta 239+18.14 - 246+39.00	Existing SPR East	720.86			24	2109.32	1.21	3.16	147.7					177.2			1442		216.3	24.0
Sta 230+00 - 246+50	Slope Correction	1650.00			Var				156.5											
Sta 238+38.69	Stop Bar	---																	36.0	12.0
Sta 239+63.65	Stop Bar	---																	36.0	12.0
IL 76 & SPR Radius'																				
Sta 237+38.25 - 54+34.75	NW Quadrant	---	73.12	188.19			0.15	0.39		13.2		102.8	10.24		15.8			73.12		
Sta 238+29.13 - 52+08.77	SW Quadrant	---	81.47				0.05	0.12					11.41					81.47		
Sta 54+78.53 - 239+73.19	NE Quadrant	---	85.89	207.20			0.17	0.44		14.5		113.1	12.02		17.4			85.89		
Sta 52+50.90 - 240+64.26	SE Quadrant	---	73.15	220.85			0.17	0.44		15.5		120.6	10.24		18.6			73.15		
Driveways																				
LT Sta 58+74	CE	---				126.76	0.07									14.2				
RT Sta 62+88.4	PE	---				57.39	0.03									6.4				
LT Sta 241+86.9	CE	---				106.74	0.06									12.0				
LT Sta 244+26.8	CE	---				94.59	0.05									10.6				
TOTAL			4908	5104		11436	12.3	31.6	644	713	917	1869	724	563	794	43	7179	4619	1463	248

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 754 (IL 76)

SECTION 101M&TS

BOONE COUNTY

SCALE: VERT. HORIZ.

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BITUMINOUS SCHEDULE

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SUBBASE SCHEDULE

LOCATION	REMARKS	TYPE/AGG WIDTH (FEET)	AGG AREA (SY)	21001000 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (SY)	31100935 SUB-BASE GRANULAR MATERIAL, TYPE A 18" (SY)	31100965 SUB-BASE GRANULAR MATERIAL, TYPE A 24" (SY)	35101400 AGG BASE COURSE TYPE B (TON)	X0325519 DRAIN FOR AGGREGATE BASE COURSE (SY)
IL 76-Mainline								
LT Sta 44+73.86 - 46+50.00	18" THICK SUB-BASE	Shoulder/9.5	185.63	185.63	185.63	—	—	—
LT Sta 46+50.00 - 49+50.00	24" THICK SUB-BASE	Shoulder/9.5	317.03	317.03	—	317.03	—	—
LT Sta 49+50.00 - 52+08.77	18" THICK SUB-BASE	Shoulder/9.5	273.14	273.14	273.14	—	—	—
RT Sta 43+73.86 - 46+50.00	18" THICK SUB-BASE	Shoulder & Widening/12.3	251.03	251.03	251.03	—	—	—
RT Sta 46+50.00 - 49+50.00	24" THICK SUB-BASE	Shoulder & Widening/12.3-23.2	592.16	592.16	—	592.16	—	—
RT Sta 49+50.00 - 52+52.51	18" THICK SUB-BASE	Shoulder & Widening/15 & Var	599.23	599.23	599.23	—	—	—
LT Sta 54+34.75 - 59+50.00	18" THICK SUB-BASE	Shoulder & Widening/12.4-23.6	1021.84	1021.84	1021.84	—	—	—
LT Sta 59+50.00 - 63+07.56	24" THICK SUB-BASE	Shoulder & Widening/10.5 & Var	557.42	557.42	—	557.42	—	—
RT Sta 54+78.53 - 59+50.00	18" THICK SUB-BASE	Shoulder & Widening/17 & Var	903.41	903.41	903.41	—	—	—
RT Sta 59+50.00 - 62+10.65	24" THICK SUB-BASE	Shoulder & Widening/10.5 & Var	530.60	530.60	—	530.6	—	—
LT Sta 44+73.86 - 46+50.00	18" THICK SUB-BASE	Widening/7.5	52.91	52.91	52.91	—	—	—
LT Sta 46+50.00 - 49+50.00	24" THICK SUB-BASE	Widening/7.5	225.51	225.51	—	225.51	—	—
LT Sta 49+50.00 - 53+00.00	18" THICK SUB-BASE	Widening/7.5	293.74	293.74	293.74	—	—	—
LT & RT Sta 46+50	24" ROCK OUTLET	French Drain (DS 96.4)/3	3.50	—	—	—	—	3.50
LT & RT Sta 49+00	24" ROCK OUTLET	French Drain (DS 96.4)/3	3.83	—	—	—	—	3.83
LT & RT Sta 51+50	18" ROCK OUTLET	French Drain (DS 96.4)/3	3.67	—	—	—	—	3.67
LT & RT Sta 54+50	18" ROCK OUTLET	French Drain (DS 96.4)/3	3.67	—	—	—	—	3.67
LT & RT Sta 57+00	18" ROCK OUTLET	French Drain (DS 96.4)/3	3.33	—	—	—	—	3.33
LT & RT Sta 59+50	24" ROCK OUTLET	French Drain (DS 96.4)/3	3.00	—	—	—	—	3.00
LT & RT Sta 62+00	24" ROCK OUTLET	French Drain (DS 96.4)/3	3.67	—	—	—	—	3.67
Squaw Praire Road (SPR)								
LT Sta 230+39.47 - 238+29.13	18" THICK SUB-BASE	Shoulder & Widening/15.5 & Var	1135.78	1135.78	1135.78	—	—	—
RT Sta 230+39.47 - 237+38.25	18" THICK SUB-BASE	Shoulder & Widening/14.5 & Var	1188.54	1188.54	1188.54	—	—	—
RT Sta 240+64.26 - 246+88.99	24" THICK SUB-BASE	Shoulder/7.5	515.76	515.76	—	515.76	—	—
LT Sta 239+73.19 - 246+88.99	24" THICK SUB-BASE	Shoulder/7.5	591.11	591.11	—	591.11	—	—
RT Sta 240+64.26 - 246+11.91	24" THICK SUB-BASE	Widening/7 & Var	328.61	328.61	—	328.61	—	—
LT Sta 239+73.19 - 246+38.99	24" THICK SUB-BASE	Widening/7 & Var	436.59	436.59	—	436.59	—	—
RT Sta 232+00	18" ROCK OUTLET	French Drain (DS 96.4)/3	1.00	—	—	—	—	1.00
RT Sta 234+50	18" ROCK OUTLET	French Drain (DS 96.4)/3	0.67	—	—	—	—	0.67
LT & RT Sta 237+00	18" ROCK OUTLET	French Drain (DS 96.4)/3	1.50	—	—	—	—	1.50
LT & RT Sta 241+00	24" ROCK OUTLET	French Drain (DS 96.4)/3	3.00	—	—	—	—	3.00
LT & RT Sta 243+50	24" ROCK OUTLET	French Drain (DS 96.4)/3	3.00	—	—	—	—	3.00
LT & RT Sta 245+00	24" ROCK OUTLET	French Drain (DS 96.4)/3	3.33	—	—	—	—	3.33
IL 76 & SPR Radius'								
Sta 237+38.25 - 54+34.75	18" THICK SUB-BASE	NW Quadrant/14.5-20	286.03	286.03	286.03	—	—	—
Sta 238+29.13 - 52+08.77	18" THICK SUB-BASE	SW Quadrant/5.5 & Var	88.05	88.05	88.05	—	—	—
Sta 54+78.53 - 239+73.19	24" THICK SUB-BASE	NE Quadrant/18-24	312.32	312.32	—	312.32	—	—
Sta 52+50.90 - 240+64.26	24" THICK SUB-BASE	SE Quadrant/14-22	318.71	318.71	—	318.71	—	—
Driveways								
LT Sta 49+76.4	8" THICK AGG BASE	FE	104.39	—	—	—	47.56	—
LT Sta 58+74	8" THICK AGG BASE	CE	126.76	—	—	—	57.75	—
RT Sta 62+88.4	8" THICK AGG BASE	PE	57.39	—	—	—	26.14	—
RT Sta 241+68.6	8" THICK AGG BASE	FE	107.01	—	—	—	48.75	—
LT Sta 241+86.9	8" THICK AGG BASE	CE	106.74	—	—	—	48.63	—
LT Sta 244+26.8	8" THICK AGG BASE	CE	94.59	—	—	—	43.09	—
		TOTALS	11,639	**11,005**	**6279**	**4726**	**272**	**37**

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 754 (IL 76)
SECTION 101M&TS
BOONE COUNTY

SCALE: VERT. HORIZ. DRAWN BY
DATE CHECKED BY

SUBBASE SCHEDULE

PLOT DATE = Thu Dec 07 14:28:51 2006
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PLOT SCALE = 50.0000 ' / IN.
USER NAME = polzinej

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	21
STA. ________	TO STA. ________			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

*(IL 76)

EARTHWORK AND TOPSOIL PLACEMENT SCHEDULES

EARTHWORK SCHEDULE

LOCATION	EARTH EXC (CUT) CU YD	EARTH EXC ADJ SHRINK 25% CU YD	EMBANK (FILL) CU YD	EARTH WORK BALANCE WASTE (+) SHORTAGE (-) CU YD
44 + 37.1 - 44 + 50	19.4	14.5	2.6	11.9
44 + 50 - 45 + 00	235.9	176.9	27.5	149.5
45 + 00 - 45 + 50	354.5	265.9	32.3	233.6
45 + 50 - 46 + 00	412.8	309.6	30.2	279.4
46 + 00 - 46 + 50	443.2	332.4	29.5	302.8
46 + 50 - 47 + 00	458.8	344.1	27.1	316.9
47 + 00 - 47 + 50	375.2	281.4	25.2	256.2
47 + 50 - 48 + 00	284.7	213.5	25.2	188.3
48 + 00 - 48 + 50	295.2	221.4	26.2	195.2
48 + 50 - 49 + 00	298.1	223.6	28.5	195.0
49 + 00 - 49 + 50	290.9	218.1	25.5	192.6
49 + 50 - 49 + 76.3	166.9	125.2	7.0	118.1
49 + 76.3 - 50 + 00	133.9	100.4	7.4	93.0
50 + 00 - 50 + 50	204.6	153.4	28.8	124.6
50 + 50 - 51 + 00	177.1	132.8	37.2	95.7
51 + 00 - 51 + 50	160.4	120.3	40.8	79.5
51 + 50 - 52 + 00	215.3	161.5	39.9	121.5
52 + 00 - 52 + 50	266.4	199.8	81.7	118.1
54 + 50 - 55 + 00	196.9	147.6	28.4	119.3
55 + 00 - 55 + 50	174.9	131.2	30.4	100.8
55 + 50 - 56 + 00	149.1	111.8	29.6	82.3
56 + 00 - 56 + 50	137.6	103.2	27.1	76.1
56 + 50 - 57 + 00	140.3	105.2	24.7	80.5
57 + 00 - 57 + 50	145.3	109.0	25.3	83.6
57 + 50 - 58 + 00	155.9	117.0	26.6	90.3
58 + 00 - 58 + 50	191.1	143.3	26.4	116.9
58 + 50 - 58 + 74	95.7	71.7	9.9	61.8
58 + 74 - 59 + 00	98.3	73.7	9.8	63.9
59 + 00 - 59 + 50	180.5	135.4	22.6	112.8
59 + 50 - 60 + 00	178.4	133.8	21.7	112.1
60 + 00 - 60 + 50	189.3	142.0	19.7	122.3
60 + 50 - 61 + 00	182.3	136.8	19.0	117.8
61 + 00 - 61 + 50	184.3	138.2	18.1	120.1
61 + 50 - 62 + 00	173.4	130.0	17.2	112.9
62 + 00 - 62 + 50	146.3	109.7	17.1	92.6
62 + 50 - 62 + 88.4	105.9	79.4	8.0	71.4
62 + 88.4 - 63 + 00	37.8	28.3	0.8	27.6
63 + 00 - 63 + 50	98.2	73.7	1.9	71.8
229 + 89.5 - 230 + 00	4.3	3.2	0.7	2.5
230 + 00 - 230 + 39.5	25.5	19.1	11.1	8.0
230 + 39.5 - 230 + 50	9.4	7.1	5.1	2.0
230 + 50 - 230 + 65	15.9	11.9	9.6	2.3
230 + 65 - 231 + 00	42.0	31.5	24.0	7.5
231 + 00 - 231 + 50	61.6	46.2	29.2	16.9
231 + 50 - 232 + 00	66.2	49.7	25.8	23.8
232 + 00 - 232 + 50	80.8	60.6	18.4	42.2
232 + 50 - 232 + 65	29.5	22.1	3.9	18.3
232 + 65 - 233 + 00	76.6	57.4	7.7	49.7
233 + 00 - 233 + 50	105.3	79.0	9.0	70.0
233 + 50 - 234 + 00	95.2	71.4	12.5	58.8
234 + 00 - 234 + 35	64.8	48.6	13.3	35.2
234 + 35 - 234 + 50	28.0	21.0	7.0	14.0
234 + 50 - 235 + 00	90.8	68.1	27.3	40.8
235 + 00 - 235 + 50	85.3	64.0	30.5	33.5
235 + 50 - 236 + 00	82.2	61.6	35.1	26.5
236 + 00 - 236 + 35	60.8	45.6	26.6	19.0
236 + 35 - 236 + 50	35.6	26.7	9.6	17.1
236 + 50 - 237 + 00	153.0	114.8	21.3	93.5
237 + 00 - 237 + 50	160.0	120.0	17.0	103.0
237 + 50 - 238 + 00	147.7	110.8	37.8	72.9
238 + 00 - 238 + 50	89.8	67.4	29.7	37.7
240 + 00 - 240 + 27.8	216.4	162.3	19.7	142.5
240 + 27.8 - 240 + 50	183.2	137.4	1.6	135.8
240 + 50 - 241 + 00	389.3	292.0	4.8	287.1
241 + 00 - 241 + 50	360.3	270.2	5.4	264.8
241 + 50 - 241 + 68.6	138.4	103.8	1.8	102.0
241 + 68.6 - 241 + 86.9	144.0	108.0	3.6	104.5
241 + 86.9 - 242 + 00	104.5	78.4	2.2	76.2
242 + 00 - 242 + 50	362.6	271.9	2.6	269.3
242 + 50 - 243 + 00	321.6	241.2	2.8	238.4
243 + 00 - 243 + 50	309.7	232.3	2.3	230.0
243 + 50 - 244 + 00	299.1	224.3	1.9	222.4
244 + 00 - 244 + 26.8	163.4	122.5	0.6	122.0
244 + 26.8 - 244 + 50	141.8	106.3	0.4	106.0
244 + 50 - 245 + 00	266.7	200.0	2.0	198.1
245 + 00 - 245 + 50	211.2	158.4	3.2	155.2
245 + 50 - 246 + 00	178.7	134.0	3.7	130.3
246 + 00 - 246 + 39	120.3	90.2	2.7	87.5
246 + 39 - 246 + 50	28.5	21.4	1.5	19.9
246 + 50 - 246 + 89	68.1	51.1	6.4	44.6
246 + 89 - 247 + 00	8.2	6.1	0.6	5.5
TOTAL	13381	10036	1389	8646

TOPSOIL SCHEDULE

LOCATION	TOPSOIL EXCAVATION CU YD	TOPSOIL EXC ADJ SHRINK 25% CU YD	TOPSOIL PLACEMENT CU YD	TOPSOIL BALANCE WASTE (+) SHORTAGE (-) CU YD
44 + 37.1 - 44 + 50	0.0	0.0	5.6	-5.6
44 + 50 - 45 + 00	0.0	0.0	45.1	-45.1
45 + 00 - 45 + 50	0.0	0.0	47.0	-47.0
45 + 50 - 46 + 00	0.0	0.0	47.2	-47.2
46 + 00 - 46 + 50	0.0	0.0	47.0	-47.0
46 + 50 - 47 + 00	0.0	0.0	46.0	-46.0
47 + 00 - 47 + 50	0.0	0.0	44.9	-44.9
47 + 50 - 48 + 00	400.0	300.0	44.5	255.5
48 + 00 - 48 + 50	425.0	318.8	44.9	273.8
48 + 50 - 49 + 00	425.0	318.8	44.9	273.9
49 + 00 - 49 + 50	400.0	300.0	44.2	255.8
49 + 50 - 49 + 76.3	0.0	0.0	17.6	-17.6
49 + 76.3 - 50 + 00	0.0	0.0	15.4	-15.4
50 + 00 - 50 + 50	325.0	243.8	41.7	202.0
50 + 50 - 51 + 00	250.0	187.5	40.7	146.8
51 + 00 - 51 + 50	250.0	187.5	39.8	147.7
51 + 50 - 52 + 00	0.0	0.0	39.1	-39.1
52 + 00 - 52 + 50	0.0	0.0	43.5	-43.5
54 + 50 - 55 + 00	0.0	0.0	29.6	-29.6
55 + 00 - 55 + 50	0.0	0.0	27.5	-27.5
55 + 50 - 56 + 00	0.0	0.0	24.3	-24.3
56 + 00 - 56 + 50	0.0	0.0	22.4	-22.4
56 + 50 - 57 + 00	0.0	0.0	22.1	-22.1
57 + 00 - 57 + 50	0.0	0.0	22.2	-22.2
57 + 50 - 58 + 00	0.0	0.0	23.9	-23.9
58 + 00 - 58 + 50	0.0	0.0	25.6	-25.6
58 + 50 - 58 + 74	0.0	0.0	9.2	-9.2
58 + 74 - 59 + 00	0.0	0.0	9.7	-9.7
59 + 00 - 59 + 50	0.0	0.0	25.7	-25.7
59 + 50 - 60 + 00	0.0	0.0	26.6	-26.6
60 + 00 - 60 + 50	0.0	0.0	26.6	-26.6
60 + 50 - 61 + 00	0.0	0.0	26.9	-26.9
61 + 00 - 61 + 50	0.0	0.0	29.1	-29.1
61 + 50 - 62 + 00	0.0	0.0	29.7	-29.7
62 + 00 - 62 + 50	0.0	0.0	27.6	-27.6
62 + 50 - 62 + 88.4	0.0	0.0	14.7	-14.7
62 + 88.4 - 63 + 00	0.0	0.0	4.3	-4.3
63 + 00 - 63 + 50	0.0	0.0	16.8	-16.8
229 + 89.5 - 230 + 00	0.0	0.0	1.7	-1.7
230 + 00 - 230 + 39.5	0.0	0.0	8.6	-8.6
230 + 39.5 - 230 + 50	0.0	0.0	2.2	-2.2
230 + 50 - 230 + 65	0.0	0.0	4.6	-4.6
230 + 65 - 231 + 00	0.0	0.0	12.9	-12.9
231 + 00 - 231 + 50	0.0	0.0	15.9	-15.9
231 + 50 - 232 + 00	0.0	0.0	14.3	-14.3
232 + 00 - 232 + 50	0.0	0.0	13.7	-13.7
232 + 50 - 232 + 65	0.0	0.0	4.6	-4.6
232 + 65 - 233 + 00	0.0	0.0	11.0	-11.0
233 + 00 - 233 + 50	0.0	0.0	14.6	-14.6
233 + 50 - 234 + 00	0.0	0.0	12.9	-12.9
234 + 00 - 234 + 35	0.0	0.0	8.1	-8.1
234 + 35 - 234 + 50	0.0	0.0	3.7	-3.7
234 + 50 - 235 + 00	0.0	0.0	12.4	-12.4
235 + 00 - 235 + 50	0.0	0.0	14.5	-14.5
235 + 50 - 236 + 00	0.0	0.0	18.4	-18.4
236 + 00 - 236 + 35	0.0	0.0	16.7	-16.7
236 + 35 - 236 + 50	0.0	0.0	7.3	-7.3
236 + 50 - 237 + 00	0.0	0.0	21.8	-21.8
237 + 00 - 237 + 50	0.0	0.0	23.0	-23.0
237 + 50 - 238 + 00	0.0	0.0	24.4	-24.4
238 + 00 - 238 + 50	0.0	0.0	18.3	-18.3
240 + 00 - 240 + 27.8	0.0	0.0	25.6	-25.6
240 + 27.8 - 240 + 50	0.0	0.0	17.9	-17.9
240 + 50 - 241 + 00	0.0	0.0	39.3	-39.3
241 + 00 - 241 + 50	0.0	0.0	37.9	-37.9
241 + 50 - 241 + 68.6	0.0	0.0	10.5	-10.5
241 + 68.6 - 241 + 86.9	0.0	0.0	6.7	-6.7
241 + 86.9 - 242 + 00	0.0	0.0	7.1	-7.1
242 + 00 - 242 + 50	0.0	0.0	35.7	-35.7
242 + 50 - 243 + 00	0.0	0.0	33.5	-33.5
243 + 00 - 243 + 50	0.0	0.0	32.1	-32.1
243 + 50 - 244 + 00	0.0	0.0	31.1	-31.1
244 + 00 - 244 + 26.8	0.0	0.0	12.3	-12.3
244 + 26.8 - 244 + 50	0.0	0.0	10.2	-10.2
244 + 50 - 245 + 00	0.0	0.0	28.0	-28.0
245 + 00 - 245 + 50	0.0	0.0	25.3	-25.3
245 + 50 - 246 + 00	0.0	0.0	23.6	-23.6
246 + 00 - 246 + 39	0.0	0.0	17.7	-17.7
246 + 39 - 246 + 50	0.0	0.0	4.7	-4.7
246 + 50 - 246 + 89	0.0	0.0	11.4	-11.4
246 + 89 - 247 + 00	0.0	0.0	1.7	-1.7
TOTAL	2475	1856	1841	15

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 754 (IL 76)
SECTION 101M&TS
BOONE COUNTY

SCALE: VERT. HORIZ.
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EARTHWORK – TOPSOIL SCHEDULES

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CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	22
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

*(IL 76)

HORIZONTAL & VERTICAL CONTROL

Chain 76 contains:
20 CUR 200 CUR 210 CUR 220 35

Beginning chain 76 description
==========

Point 20 N 2,047,517.2920 E 2,652,405.2200 Sta 14+30.0281

Course from 20 to PC 200 350° 30' 20.4906" Dist 5,394.4209'

Curve Data

Curve 200
P.I. Station 73+10.9381 N 2,053,317.6452 E 2,651,435.1661
Delta = 6° 53' 49.8501" (RT)
Degree = 0° 42' 35.0292"
Tangent = 486.4891'
Length = 971.8030'
Radius = 8,072.8944'
External = 14.6451'
Long Chord = 971.2163'
Mid. Ord. = 14.6186'
P.C. Station 68+24.4490 N 2,052,837.8200 E 2,651,515.4123
P.T. Station 77+96.2520 N 2,053,803.6346 E 2,651,413.1219
C.C. N 2,054,169.4410 E 2,659,477.7241

Course from PT 200 to PC 210 357° 24' 10.3406" Dist 1,531.4823'

Curve Data

Curve 210
P.I. Station 99+25.2061 N 2,055,930.4021 E 2,651,316.6528
Delta = 51° 58' 56.4009" (RT)
Degree = 4° 40' 31.3708"
Tangent = 597.4719'
Length = 1,111.8310'
Radius = 1,225.4784'
External = 137.8887'
Long Chord = 1,074.0891'
Mid. Ord. = 123.9429'
P.C. Station 93+27.7343 N 2,055,333.5439 E 2,651,343.7259
P.T. Station 104+39.5653 N 2,056,319.3385 E 2,651,770.1956
C.C. N 2,055,389.0739 E 2,652,567.9455

Course from PT 210 to PC 220 49° 23' 06.7415" Dist 1,680.0301'

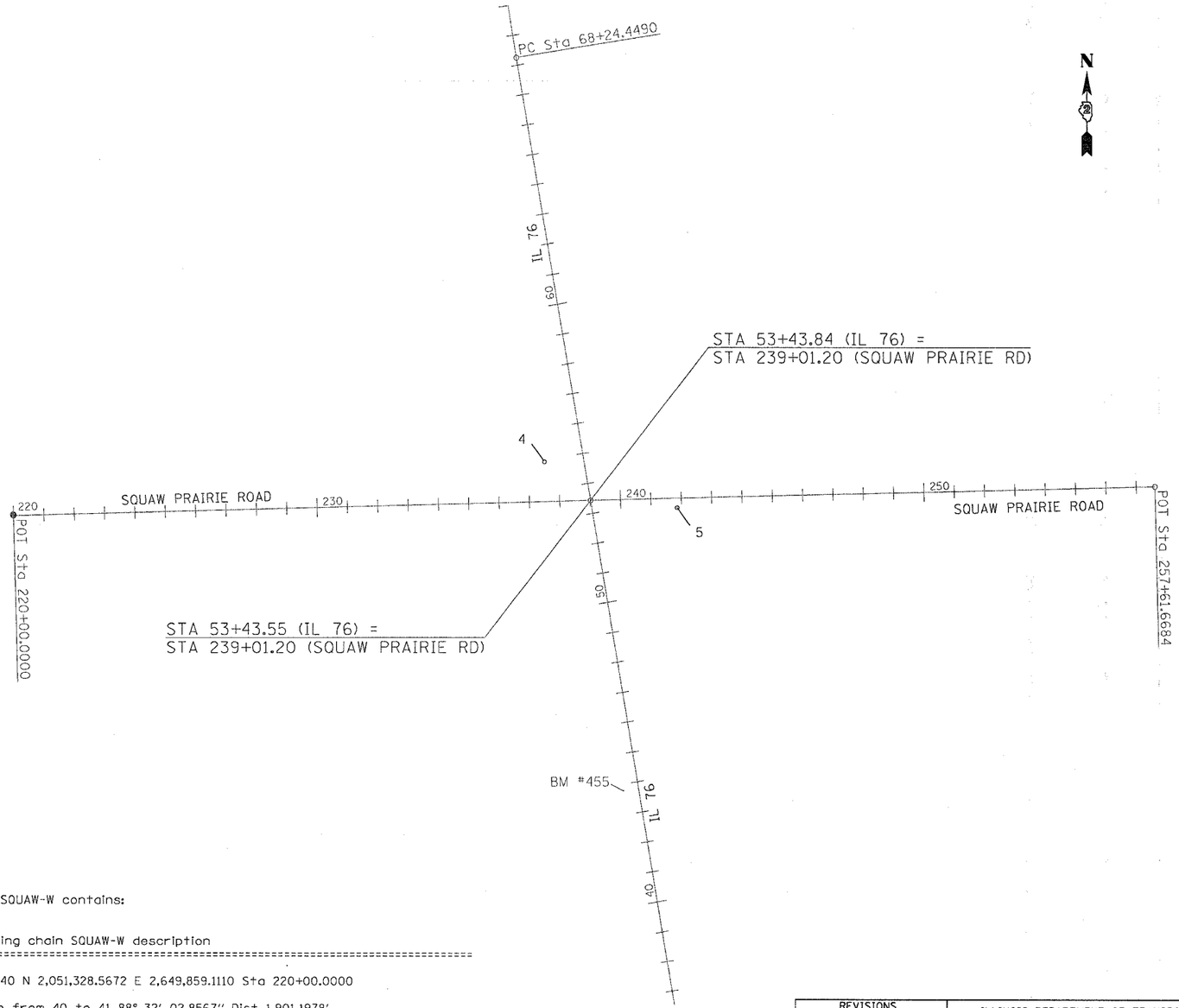
Curve Data

Curve 220
P.I. Station 129+26.5282 N 2,057,938.2773 E 2,653,658.0572
Delta = 50° 10' 31.2850" (LT)
Degree = 3° 19' 27.2184"
Tangent = 806.9328'
Length = 1,509.3840'
Radius = 1,723.5819'
External = 179.5406'
Long Chord = 1,461.6135'
Mid. Ord. = 162.6027'
P.C. Station 121+19.5954 N 2,057,412.9881 E 2,653,045.5119
P.T. Station 136+28.9794 N 2,058,745.1334 E 2,653,646.9294
C.C. N 2,058,721.3647 E 2,651,923.5114

Course from PT 220 to 35 359° 12' 35.4565" Dist 5,543.9532'

Point 35 N 2,064,288.5594 E 2,653,570.4766 Sta 191+72.9326

==========
Ending chain 76 description



Chain SQUAW-E contains:
42 34

Beginning chain SQUAW-E description
==========

Point 42 N 2,051,377.4887 E 2,651,759.6388 Sta 239+01.1978

Course from 42 to 34 88° 36' 27.2884" Dist 1,860.4706'

Point 34 N 2,051,422.6980 E 2,653,619.5600 Sta 257+61.6684

==========
Ending chain SQUAW-E description

Chain SQUAW-W contains:
40 41

Beginning chain SQUAW-W description
==========

Point 40 N 2,051,328.5672 E 2,649,859.1110 Sta 220+00.0000

Course from 40 to 41 88° 32' 02.8567" Dist 1,901.1978'

Point 41 N 2,051,377.2027 E 2,651,759.6866 Sta 239+01.1978

==========
Ending chain SQUAW-W description

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 754 (IL 76)
SECTION 101M&TS
BOONE COUNTY

SCALE: VERT. HORIZ.
DATE
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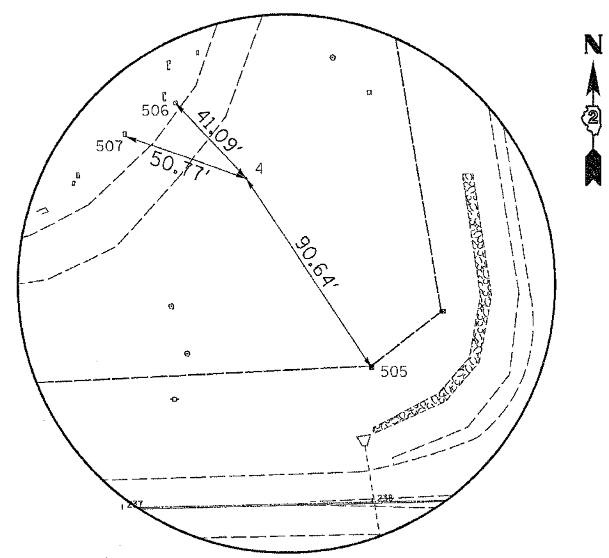
HORIZONTAL & VERTICAL CONTROL

CONTRACT NO. 64B81

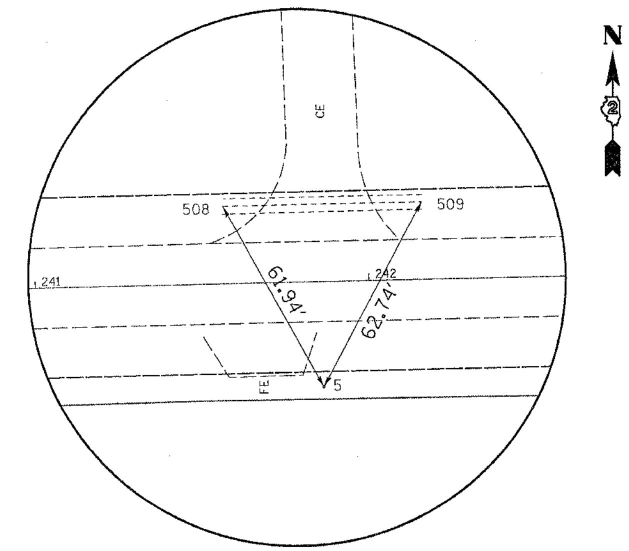
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	23
STA. __________ TO STA. __________				
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

*(IL 76)

HORIZONTAL & VERTICAL CONTROL



HORIZONTAL CONTROL
POINT No. 4



HORIZONTAL CONTROL
POINT No. 5

REFERENCE TIES				
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
505	SQUAW-W	238+01.0478	54.275' LT	R.O.W. MARKER
505	76	54+11.2767	91.5881' LT	R.O.W. MARKER
506	SQUAW-W	237+25.4658	161.6847' LT	VALVE
506	76	55+28.1897	151.428' LT	VALVE
507	SQUAW-W	237+05.3640	148.8937' LT	HEADSTONE
507	76	55+18.3317	173.1192' LT	HEADSTONE
508	76	53+30.8017	256.2614' RT	PIPE CULVERT
508	SQUAW-E	241+56.7385	23.2115' LT	PIPE CULVERT
509	76	53+22.4247	315.275' RT	PIPE CULVERT
509	SQUAW-E	242+16.3437	23.2351' LT	PIPE CULVERT

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
4	2051504.4780	2651608.0980	786.4800	76	54+94.0826	128.5182' LT	NGS MONUMENT, DISK
4	2051504.4780	2651608.0980	786.4800	SQUAW-W	237+52.9147	131.1115' LT	NGS MONUMENT, DISK
5	2051352.8850	2652044.8490	783.2120	76	52+72.5242	277.245' RT	GPS CONTROL POINT, PIN
5	2051352.8850	2652044.8490	783.2120	SQUAW-E	241+85.7259	31.527' RT	GPS CONTROL POINT, PIN

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
455	2050417.1380	2651869.6000	779.5220	76	43+78.5023	49.9546' LT	R.O.W. MARKER, TOP

PLOT DATE = Fri Dec 08 11:29:21 2006
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USER NAME = polzinej

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP ROUTE 754 (IL 76)
SECTION 101M&TS
BOONE COUNTY

SCALE: VERT.
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DATE

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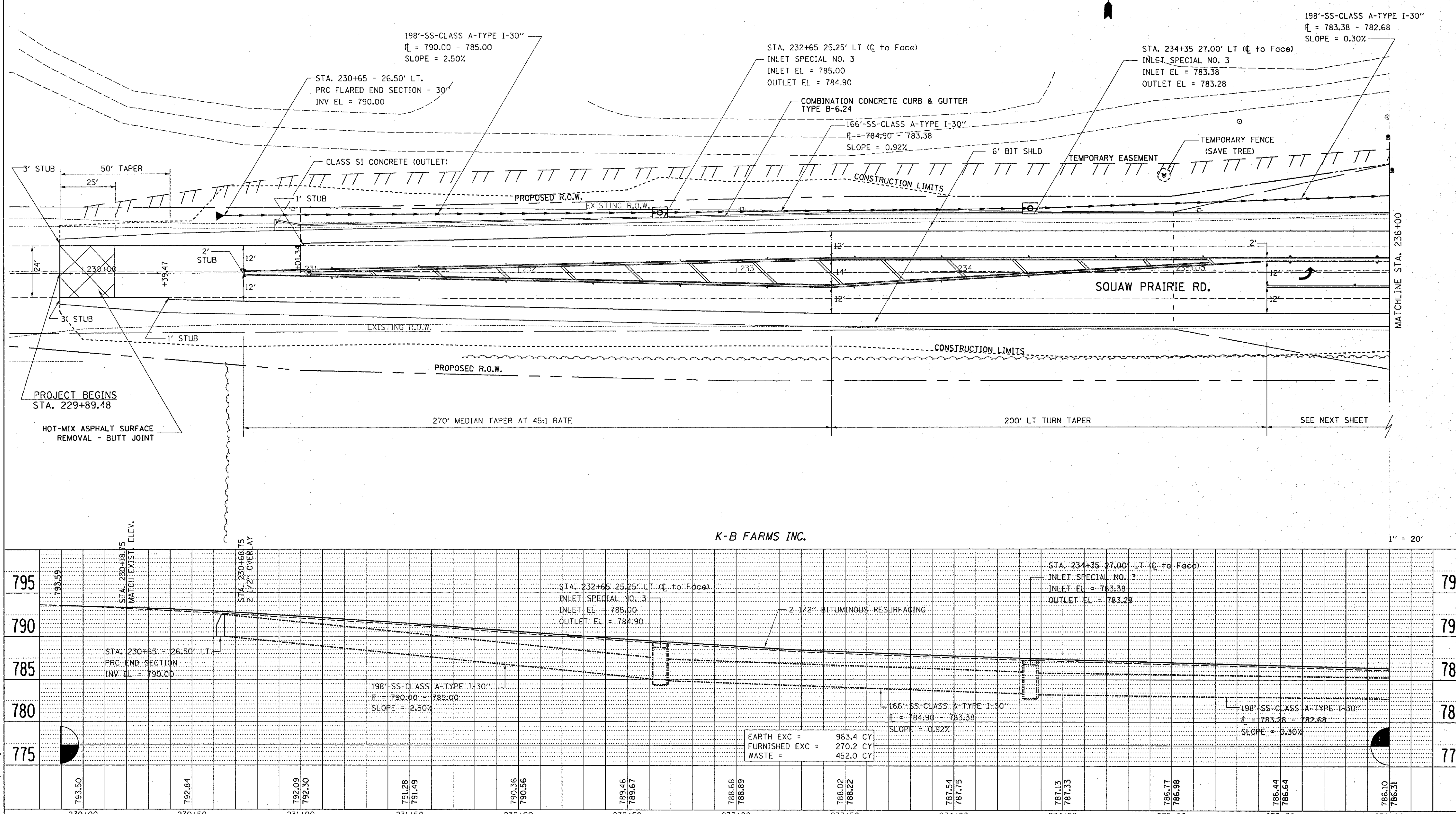
CHECKED BY

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	24
STA. 230+00	TO STA. 236+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*(IL 76)



HIGHLAND GARDEN OF MEMORIES
N
198'-SS-CLASS A-TYPE I-30"
℄ = 790.00 - 785.00
SLOPE = 2.50%
STA. 230+65 - 26.50' LT.
PRC FLARED END SECTION - 30"
INV EL = 790.00
STA. 232+65 25.25' LT (℄ to Face)
INLET SPECIAL NO. 3
INLET EL = 785.00
OUTLET EL = 784.90
COMBINATION CONCRETE CURB & GUTTER TYPE B-6.24
166'-SS-CLASS A-TYPE I-30"
℄ = 784.90 - 783.38
SLOPE = 0.92%
6' BIT SHLD
STA. 234+35 27.00' LT (℄ to Face)
INLET SPECIAL NO. 3
INLET EL = 783.38
OUTLET EL = 783.28
198'-SS-CLASS A-TYPE I-30"
℄ = 783.38 - 782.68
SLOPE = 0.30%
TEMPORARY FENCE (SAVE TREE)
TEMPORARY EASEMENT
CLASS SI CONCRETE (OUTLET)
3' STUB
50' TAPER
25'
1' STUB
2' STUB
PROPOSED R.O.W.
EXISTING R.O.W.
CONSTRUCTION LIMITS
SQUAW PRAIRIE RD.
MATCHLINE STA. 236+00
PROJECT BEGINS
STA. 229+89.48
HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
270' MEDIAN TAPER AT 45:1 RATE
200' LT TURN TAPER
SEE NEXT SHEET
K-B FARMS INC.
1" = 20'
STA. 230+18.75 MATCH EXIST. ELEV.
STA. 230+68.75 2 1/2" OVERLAY
2 1/2" BITUMINOUS RESURFACING
EARTH EXC = 963.4 CY
FURNISHED EXC = 270.2 CY
WASTE = 452.0 CY
795
790
785
780
775
793.59
793.50
792.84
792.09
792.30
791.28
791.49
790.36
790.56
789.46
789.67
788.68
788.89
788.02
788.22
787.54
787.75
787.13
787.33
786.77
786.98
786.44
786.64
786.10
786.31
230+00
230+50
231+00
231+50
232+00
232+50
233+00
233+50
234+00
234+50
235+00
235+50
236+00

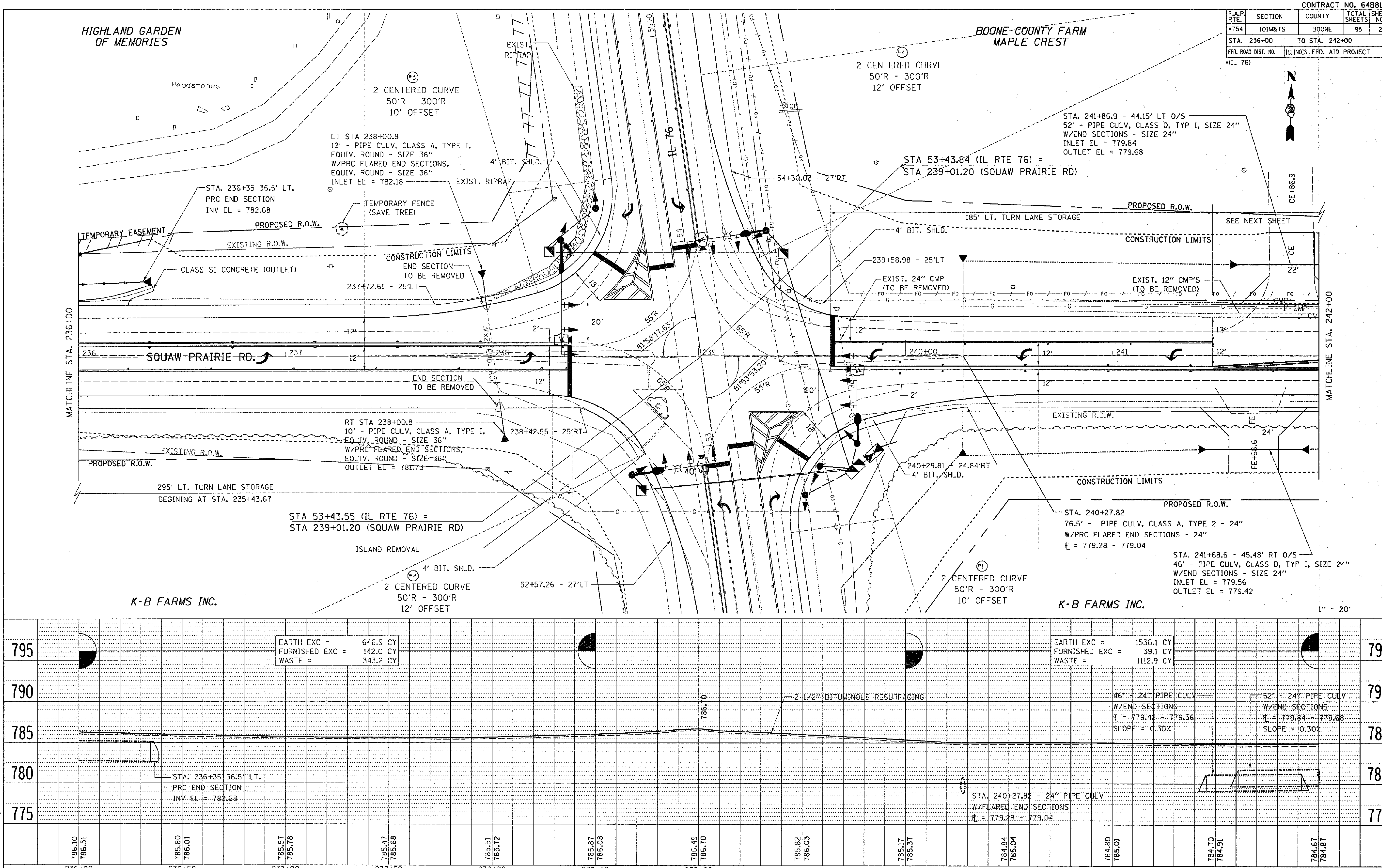
SQUAW PRAIRIE ROAD
PLAN & PROFILE

PLOT DATE = Fri Dec 08 08:15:01 2006
PLOT SCALE = 20.0000 ' / IN.
USER NAME = polzinej

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	25
STA. 236+00	TO STA. 242+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*(IL 76)



HIGHLAND GARDEN OF MEMORIES
Headstones
BOONE COUNTY FARM MAPLE CREST
K-B FARMS INC.
K-B FARMS INC.
N
IL 76
SQUAW PRAIRIE RD.
MATCHLINE STA. 236+00
MATCHLINE STA. 242+00
#3 2 CENTERED CURVE 50'R - 300'R 10' OFFSET
#4 2 CENTERED CURVE 50'R - 300'R 12' OFFSET
#2 2 CENTERED CURVE 50'R - 300'R 12' OFFSET
#1 2 CENTERED CURVE 50'R - 300'R 10' OFFSET
EXIST. RIPRAP
LT STA 238+00.8
12' - PIPE CULV, CLASS A, TYPE I,
EQUIV. ROUND - SIZE 36"
W/PRC FLARED END SECTIONS,
EQUIV. ROUND - SIZE 36"
INLET EL = 782.18
4' BIT. SHLD.
EXIST. RIPRAP
STA. 236+35 36.5' LT.
PRC END SECTION
INV EL = 782.68
TEMPORARY FENCE (SAVE TREE)
PROPOSED R.O.W.
TEMPORARY EASEMENT
EXISTING R.O.W.
CONSTRUCTION LIMITS
END SECTION TO BE REMOVED
CLASS SI CONCRETE (OUTLET)
237+72.61 - 25'LT
STA 53+43.84 (IL RTE 76) =
STA 239+01.20 (SQUAW PRAIRIE RD)
54+30.03 - 27'RT
STA. 241+86.9 - 44.15' LT O/S
52' - PIPE CULV, CLASS D, TYP I, SIZE 24"
W/END SECTIONS - SIZE 24"
INLET EL = 779.84
OUTLET EL = 779.68
185' LT. TURN LANE STORAGE
SEE NEXT SHEET
CONSTRUCTION LIMITS
4' BIT. SHLD.
239+58.98 - 25'LT
EXIST. 24" CMP (TO BE REMOVED)
EXIST. 12" CMP'S (TO BE REMOVED)
CE+86.9
CE
22'
12'
20'
2'
55'R
81°58'17.63"
81°53'53.20"
240+00
241
236
237
238
239
END SECTION TO BE REMOVED
RT STA 238+00.8
10' - PIPE CULV, CLASS A, TYPE I,
EQUIV. ROUND - SIZE 36"
W/PRC FLARED END SECTIONS,
EQUIV. ROUND - SIZE 36"
OUTLET EL = 781.73
238+42.55 - 25'RT
EXISTING R.O.W.
PROPOSED R.O.W.
295' LT. TURN LANE STORAGE
BEGINING AT STA. 235+43.67
STA 53+43.55 (IL RTE 76) =
STA 239+01.20 (SQUAW PRAIRIE RD)
ISLAND REMOVAL
4' BIT. SHLD.
52+57.26 - 27'LT
240+29.81 - 24.84'RT
4' BIT. SHLD.
EXISTING R.O.W.
FE
FE+68.6
24'
CONSTRUCTION LIMITS
PROPOSED R.O.W.
STA. 240+27.82
76.5' - PIPE CULV, CLASS A, TYPE 2 - 24"
W/PRC FLARED END SECTIONS - 24"
℄ = 779.28 - 779.04
STA. 241+68.6 - 45.48' RT O/S
46' - PIPE CULV, CLASS D, TYP I, SIZE 24"
W/END SECTIONS - SIZE 24"
INLET EL = 779.56
OUTLET EL = 779.42
1" = 20'
795
790
785
780
775
EARTH EXC = 646.9 CY
FURNISHED EXC = 142.0 CY
WASTE = 343.2 CY
EARTH EXC = 1536.1 CY
FURNISHED EXC = 39.1 CY
WASTE = 1112.9 CY
2 1/2" BITUMINOUS RESURFACING
786.70
46' - 24" PIPE CULV
W/END SECTIONS
℄ = 779.42 - 779.56
SLOPE = 0.30%
52' - 24" PIPE CULV
W/END SECTIONS
℄ = 779.84 - 779.68
SLOPE = 0.30%
STA. 236+35 36.5' LT.
PRC END SECTION
INV EL = 782.68
STA. 240+27.82 - 24" PIPE CULV
W/FLARED END SECTIONS
℄ = 779.28 - 779.04
786.10 786.31
785.80 786.01
785.57 785.78
785.47 785.68
785.51 785.72
785.87 786.08
786.49 786.70
785.82 786.03
785.17 785.37
784.84 785.04
784.80 785.01
784.70 784.91
784.67 784.87
236+00
236+50
237+00
237+50
238+00
238+50
239+00
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240+00
240+50
241+00
241+50
242+00

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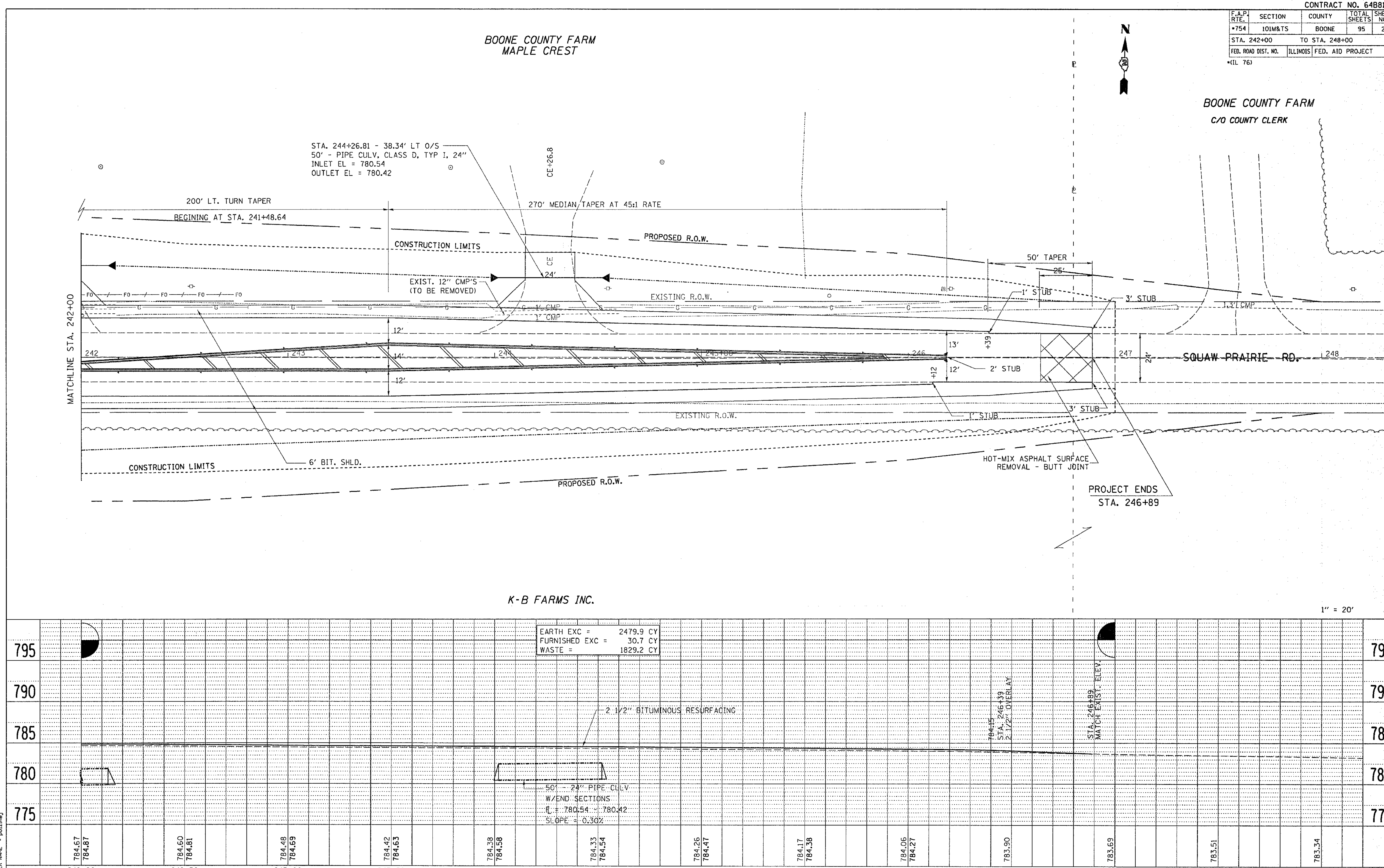
SQUAW PRAIRIE ROAD
PLAN & PROFILE

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	26
STA. 242+00	TO STA. 248+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*(IL 76)



BOONE COUNTY FARM
MAPLE CREST
BOONE COUNTY FARM
C/O COUNTY CLERK
N
STA. 244+26.81 - 38.34' LT O/S
50' - PIPE CULV. CLASS D, TYP I, 24"
INLET EL = 780.54
OUTLET EL = 780.42
CE+26.8
200' LT. TURN TAPER
BEGINING AT STA. 241+48.64
270' MEDIAN TAPER AT 45:1 RATE
PROPOSED R.O.W.
CONSTRUCTION LIMITS
50' TAPER
25'
24'
EXIST. 12" CMP'S
(TO BE REMOVED)
EXISTING R.O.W.
1' STUB
3' STUB
1.3' CMP
MATCHLINE STA. 242+00
12'
13'
14'
12'
+39
+12
2' STUB
SQUAW PRAIRIE RD.
242
243
244
245+00
246
247
248
1' STUB
3' STUB
6' BIT. SHLD.
HOT-MIX ASPHALT SURFACE
REMOVAL - BUTT JOINT
CONSTRUCTION LIMITS
PROPOSED R.O.W.
PROJECT ENDS
STA. 246+89
K-B FARMS INC.
1" = 20'
EARTH EXC = 2479.9 CY
FURNISHED EXC = 30.7 CY
WASTE = 1829.2 CY
2 1/2" BITUMINOUS RESURFACING
784.15
STA. 246+39
2 1/2" OVERLAY
STA. 246+89
MATCH EXIST. ELEV.
50' - 24" PIPE CULV
W/END SECTIONS
℄ = 780.54 - 780.42
SLOPE = 0.30%
795
790
785
780
775
784.67
784.87
784.60
784.81
784.48
784.69
784.42
784.63
784.38
784.58
784.33
784.54
784.26
784.47
784.17
784.38
784.06
784.27
783.90
783.69
783.51
783.34
242+00
242+50
243+00
243+50
244+00
244+50
245+00
245+50
246+00
246+50
247+00
247+50
248+00

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / R/L OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD / NOTE BOOK / NO. / BY / DATE

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PLOT SCALE = 20.0000 ' / IN.
USER NAME = polzine

SQUAW PRAIRIE ROAD
PLAN & PROFILE

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•754	101M&TS	BOONE	95	27
STA. 43+00	TO STA. 49+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

•(IL 76)

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R.T. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

1" = 20'

EARTH EXC = 3177.8 CY
FURNISHED EXC = 254.3 CY
WASTE = 2128.8 CY

•DATE-TIME•
•DGN-SPEC•
•REF
•REF
•REF
•REF

IL RTE 76
PLAN & PROFILE

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	28
STA. 49+00	TO STA. 55+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*(IL 76)

K-B FARMS INC.

STA. 49+76.3 - 48' LT O/S
46' - PIPE CULV, CLASS D, TYPE I, EQUIV. ROUND - SIZE 36"
W/END SECTIONS - EQUIV. ROUND - SIZE 36"
INLET EL = 778.82
OUTLET EL = 778.42

REMOVE EXISTING CULVERT

SEE PREVIOUS SHEET

265' LT & RT TURN LANE STORAGE

CONSTRUCTION LIMITS

8' BIT. SHLD.

PROPOSED R.O.W.

EXISTING R.O.W.

FE+76.3

FE 24'

3'x2' ELIP. CMP

PAVED SHOULDER REMOVAL

4' BIT. SHLD.

MATCHLINE STA. 49+00

IL 76

STA 53+43.55 (IL RTE 76) =
STA 239+01.20 (SQUAW PRAIRIE RD)

(#2) 2 CENTERED CURVE
50'R - 300'R
12' OFFSET

END SECTION TO BE REMOVED

237+72.61 - 25'LT

END SECTION TO BE REMOVED

HIGHLAND GARDEN OF MEMORIES

(#3) 2 CENTERED CURVE
50'R - 300'R
10' OFFSET

SEE NEXT SHEET

EXISTING R.O.W.

PROPOSED R.O.W.

4' BIT. SHLD.

CONSTRUCTION LIMITS

EXIST. RIPRAP

238+42.55 - 25'RT

ISLAND REMOVAL

4' BIT. SHLD.

52+57.26 - 27'LT

SQUAW PRAIRIE RD.

PAVED SHOULDER REMOVAL

MATCHLINE STA. 55+00

54+30.03 - 27'RT

EXISTING R.O.W.

4' BIT. SHLD.

239+58.98 - 25'LT

PROPOSED R.O.W.

(#4) 2 CENTERED CURVE
50'R - 300'R
12' OFFSET

4' BIT. SHLD.

240+00

CONSTRUCTION LIMITS

PROPOSED R.O.W.

STA 53+43.84 (IL RTE 76) =
STA 239+01.20 (SQUAW PRAIRIE RD)

(#1) 2 CENTERED CURVE
50'R - 300'R
10' OFFSET

K-B FARMS INC.

BOONE COUNTY FARM
MAPLE CREST

1" = 20'

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
BY
DATE
FIELD CHECKED
OFFICE CHECKED
R/W. NOTED
CADD FILE NAME

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
BY
DATE
FIELD CHECKED
OFFICE CHECKED
R/W. NOTED
STRUCTURE NOTATING SHEET

DATE-TIME
NOW-SPEC
*REF
*REF
*REF
*REF

790
785
780
775
770
765

2 1/2" BITUMINOUS RESURFACING

46" - 36" EQUIV RND PIPE CULV
W/END SECTIONS
IE = 778.82 - 778.42
SLOPE = 0.885%

EARTH EXC = 1615.5 CY
FURNISHED EXC = 268.3 CY
WASTE = 943.1 CY

EARTH EXC = 196.9 CY
FURNISHED EXC = 28.4 CY
WASTE = 119.3 CY

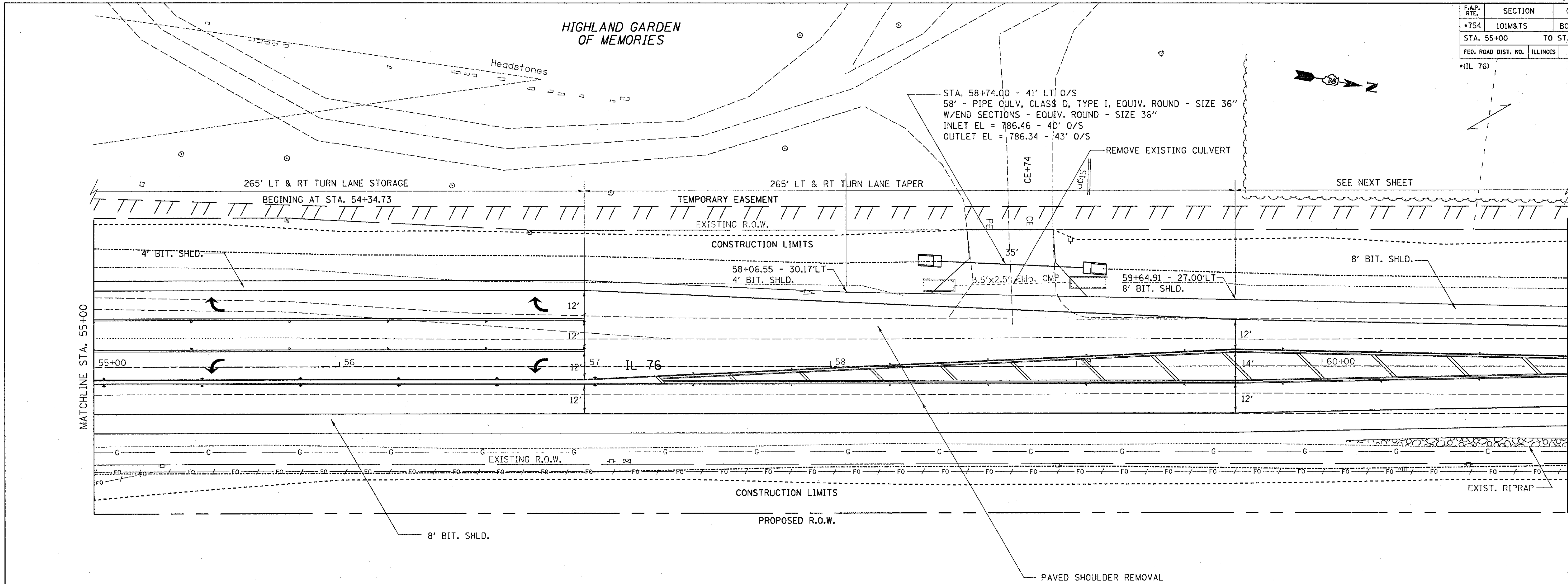
49+00	49+50	50+00	50+50	51+00	51+50	52+00	52+50	53+00	53+50	54+00	54+50	55+00
783.86 / 784.08	784.18 / 784.39	784.47 / 784.68	784.76 / 785.00	785.05 / 785.44	785.35 / 785.57	785.65 / 785.88	785.95 / 786.18	786.24 / 786.49	786.53 / 786.72	786.80 / 786.94	787.12 / 787.41	787.44 / 787.74

IL RTE 76
PLAN & PROFILE

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	29
STA. 55+00	TO STA. 61+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

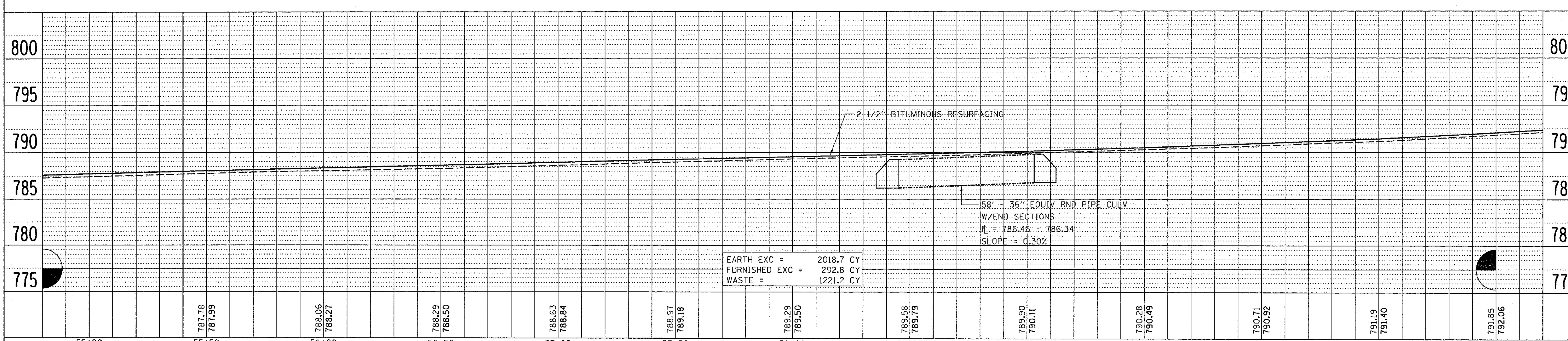
*(IL 76)



HIGHLAND GARDEN OF MEMORIES
Headstones
STA. 58+74.00 - 41' LT O/S
58' - PIPE CULV. CLASS D, TYPE I, EQUIV. ROUND - SIZE 36"
W/END SECTIONS - EQUIV. ROUND - SIZE 36"
INLET EL = 786.46 - 40' O/S
OUTLET EL = 786.34 - 43' O/S
REMOVE EXISTING CULVERT
265' LT & RT TURN LANE STORAGE
BEGINING AT STA. 54+34.73
265' LT & RT TURN LANE TAPER
TEMPORARY EASEMENT
SEE NEXT SHEET
EXISTING R.O.W.
CONSTRUCTION LIMITS
4' BIT. SHLD.
58+06.55 - 30.17'LT
4' BIT. SHLD.
3.5'x2.5' Ell. CMP
59+64.91 - 27.00'LT
8' BIT. SHLD.
8' BIT. SHLD.
MATCHLINE STA. 55+00
MATCHLINE STA. 61+00
IL 76
EXISTING R.O.W.
CONSTRUCTION LIMITS
PROPOSED R.O.W.
EXIST. RIPRAP
8' BIT. SHLD.
PAVED SHOULDER REMOVAL

BOONE COUNTY FARM
MAPLE CREST

1" = 20'



800
795
790
785
780
775
2 1/2" BITUMINOUS RESURFACING
58' - 36" EQUIV RND PIPE CULV
W/END SECTIONS
℄ = 786.46 - 786.34
SLOPE = 0.30%
EARTH EXC = 2018.7 CY
FURNISHED EXC = 292.8 CY
WASTE = 1221.2 CY
787.78 787.99
788.06 788.27
788.29 788.50
788.63 788.84
788.97 789.18
789.29 789.50
789.58 789.79
789.90 790.11
790.28 790.49
790.71 790.92
791.19 791.40
791.85 792.06
55+00
55+50
56+00
56+50
57+00
57+50
58+00
58+50
59+00
59+50
60+00
60+50
61+00

IL RTE 76
PLAN & PROFILE

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	30
STA. 61+00	TO STA. 67+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
*(IL 76)				

HIGHLAND GARDEN OF MEMORIES

DONALD & PEGGY GRENKE

300' MEDIAN TAPER AT 50:1 RATE
BEGINNING AT STA. 59+64.73

TEMPORARY EASEMENT

TEMPORARY FENCE (SAVE TREES)

EXISTING R.O.W.

TREE TRANSPLANT

CONSTRUCTION LIMITS

50' TAPER

25'

2' STUB

1' STUB
52+57.26 - 27'LT

EXIST. 8' BIT. SHLD.

MATCHLINE STA. 61+00

12'

12'

+89.35

23.5'

+07.56

22.5'

61 | 62 | 63 | 64 | 65+00 | 66 | 67

IL 76

52+57.26 - 27'LT

1.1' STUB

12'

EXIST. RIPRAP

CONSTRUCTION LIMITS

8' BIT. SHLD.

EXISTING R.O.W.

PROPOSED R.O.W.

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT TO BE REMOVED

PAVED SHOULDER REMOVAL

STA. 62+88.4 - 34' RT O/S
52' - PIPE CULV, CLASS D, TYPE I - SIZE 18"
W/END SECTIONS - SIZE 18"
INLET EL = 792.23 - 33.5' O/S
OUTLET EL = 791.19 - 34.5' O/S

FE+88.4

PROJECT ENDS
STA. 63+57.56

BOONE COUNTY FARM
MAPLE CREST

1" = 20'

2 1/2" BITUMINOUS RESURFACING

STA. 63+07.56
2 1/2" OVERLAY

STA. 63+57.56
MATCH EXIST. ELEV.

52' - 18" PIPE CULV
W/END SECTIONS
INLET = 792.23 - 791.19
SLOPE = 2.00%

EARTH EXC =	745.9 CY
FURNISHED EXC =	63.1 CY
WASTE =	496.4 CY

805 | 800 | 795 | 790 | 785 | 780

791.85	792.55	793.31	794.20	795.21	796.26	797.41	798.60	799.81	800.93	801.86	802.64	803.27
792.06	792.75	793.52	794.41	795.42								

61+00 | 61+50 | 62+00 | 62+50 | 63+00 | 63+50 | 64+00 | 64+50 | 65+00 | 65+50 | 66+00 | 66+50 | 67+00

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / GRADES CHECKED / NOTE BOOK / NO. / CADD FILE NAME / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / NOTE BOOK / NO. / STRUCTURE NO'S/ATMS CHRD / BY / DATE

DATE-TIME
DGN-SPEC
*REF
*REF
*REF
*REF

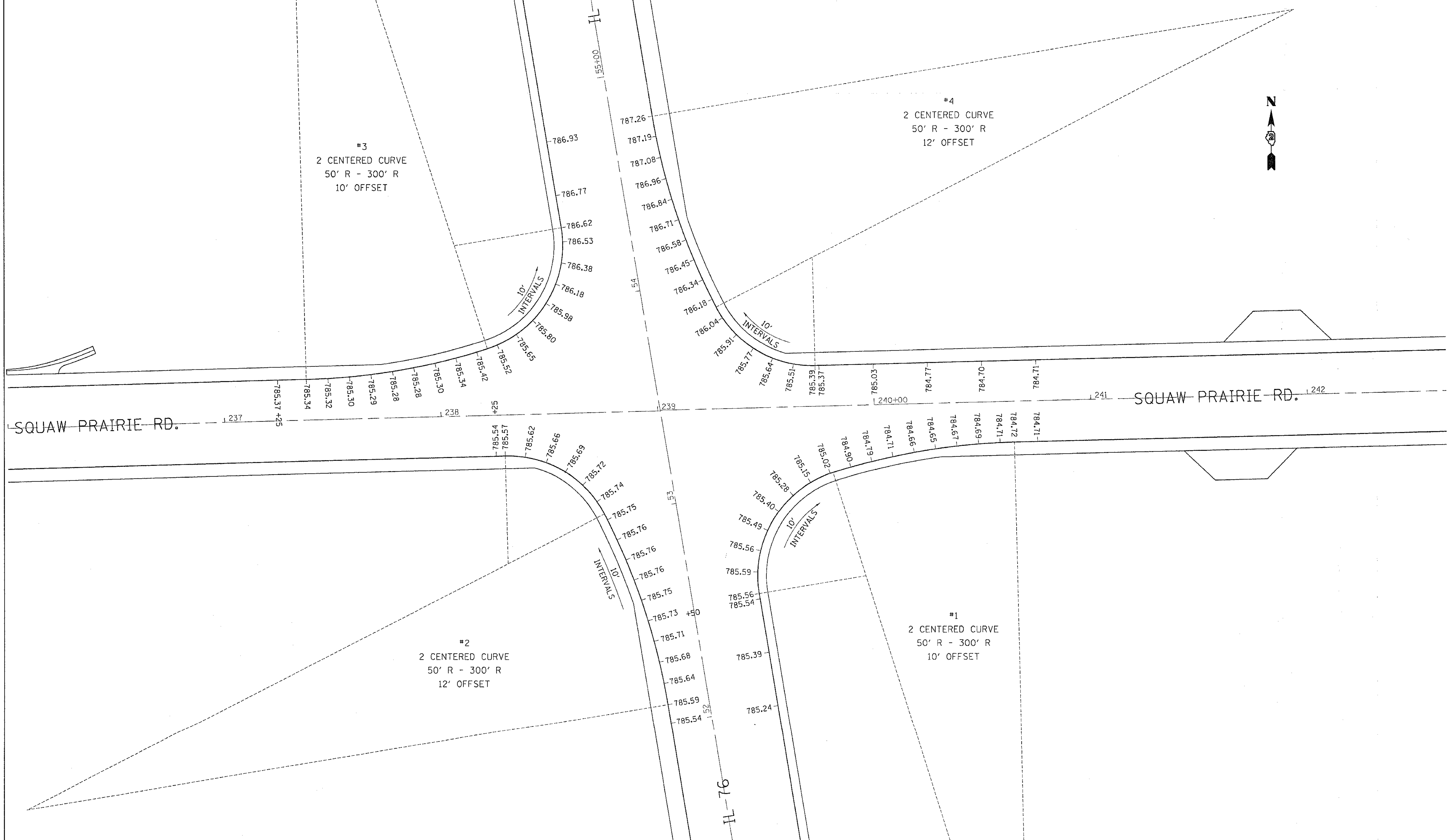
IL RTE 76
PLAN & PROFILE

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	31
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*(IL 76)

PAVEMENT ELEVATIONS



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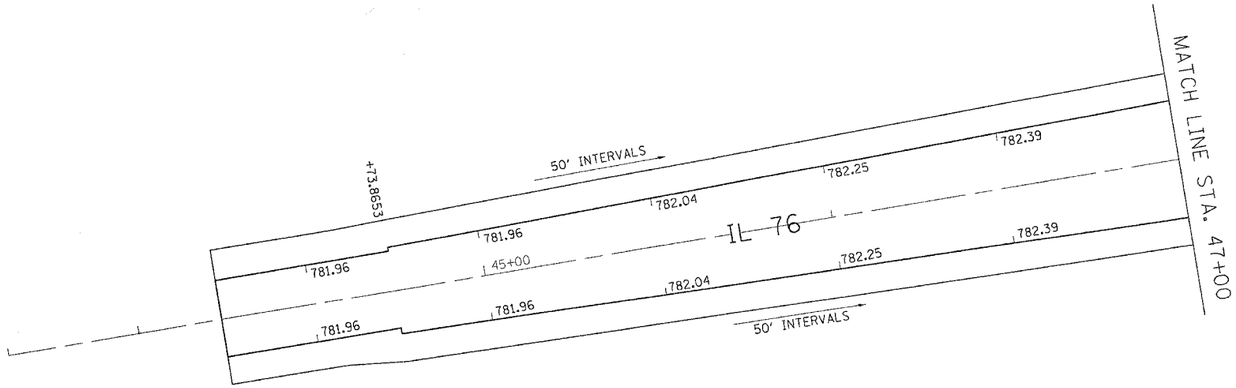
PAVEMENT ELEVATIONS

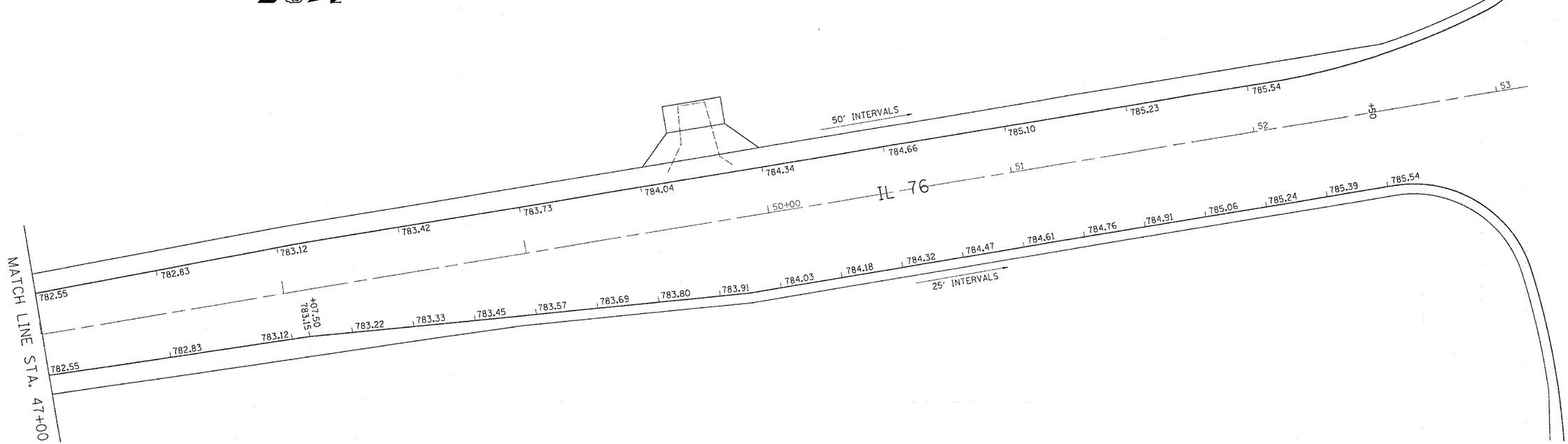
CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•754	101M&TS	BOONE	95	32
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

•(IL 76)

PAVEMENT ELEVATIONS





MAINLINE ELEVATIONS

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REFERENCE = $REF*

CONTRACT NO. 64B81

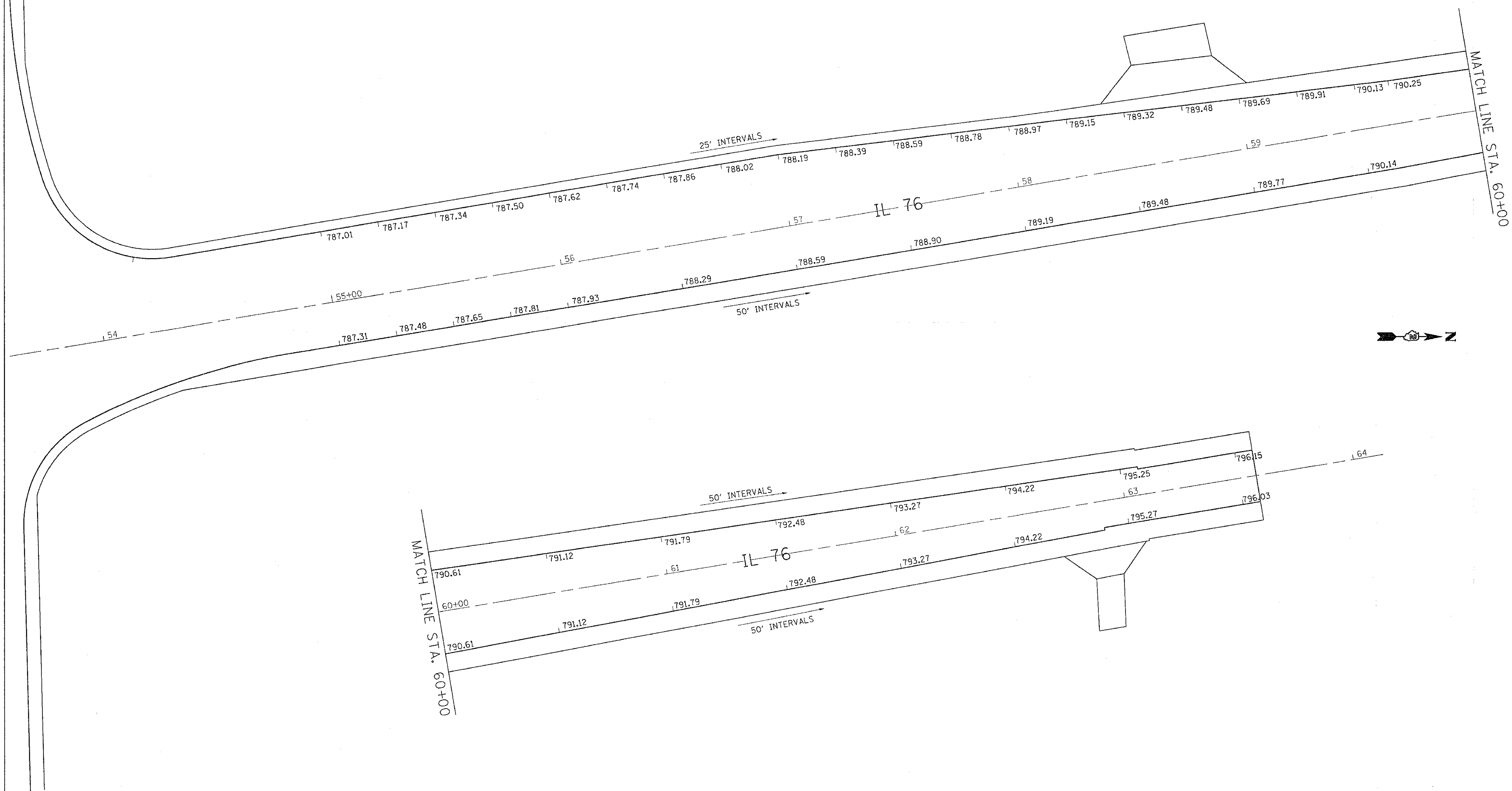
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•754	101M&TS	BOONE	95	33

STA. __________ TO STA. __________

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

•(IL 76)

PAVEMENT ELEVATIONS



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REFERENCE = $REFS

MAINLINE ELEVATIONS

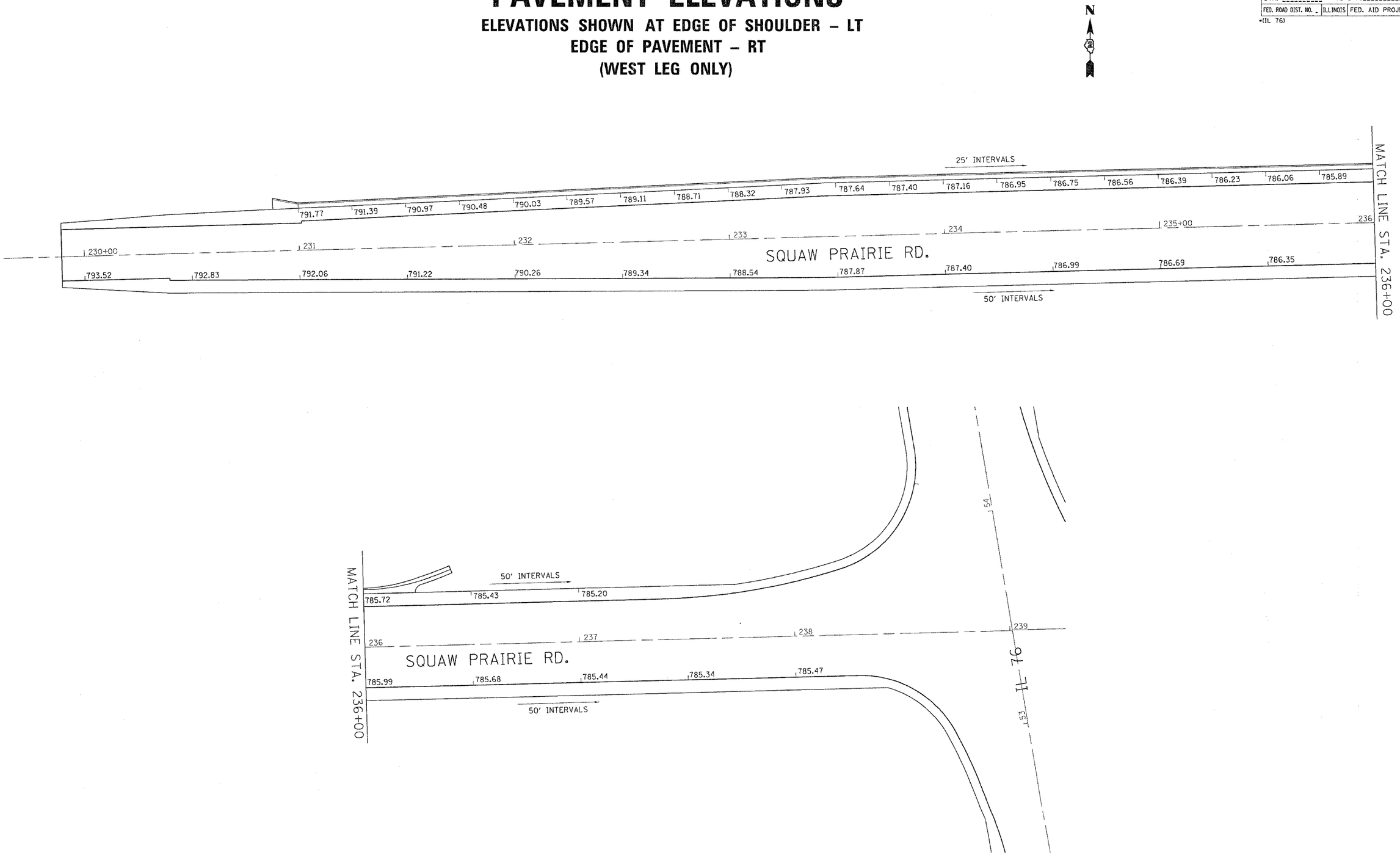
CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	34
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

*(IL 76)

PAVEMENT ELEVATIONS

ELEVATIONS SHOWN AT EDGE OF SHOULDER – LT
EDGE OF PAVEMENT – RT
(WEST LEG ONLY)



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REFERENCE = REF

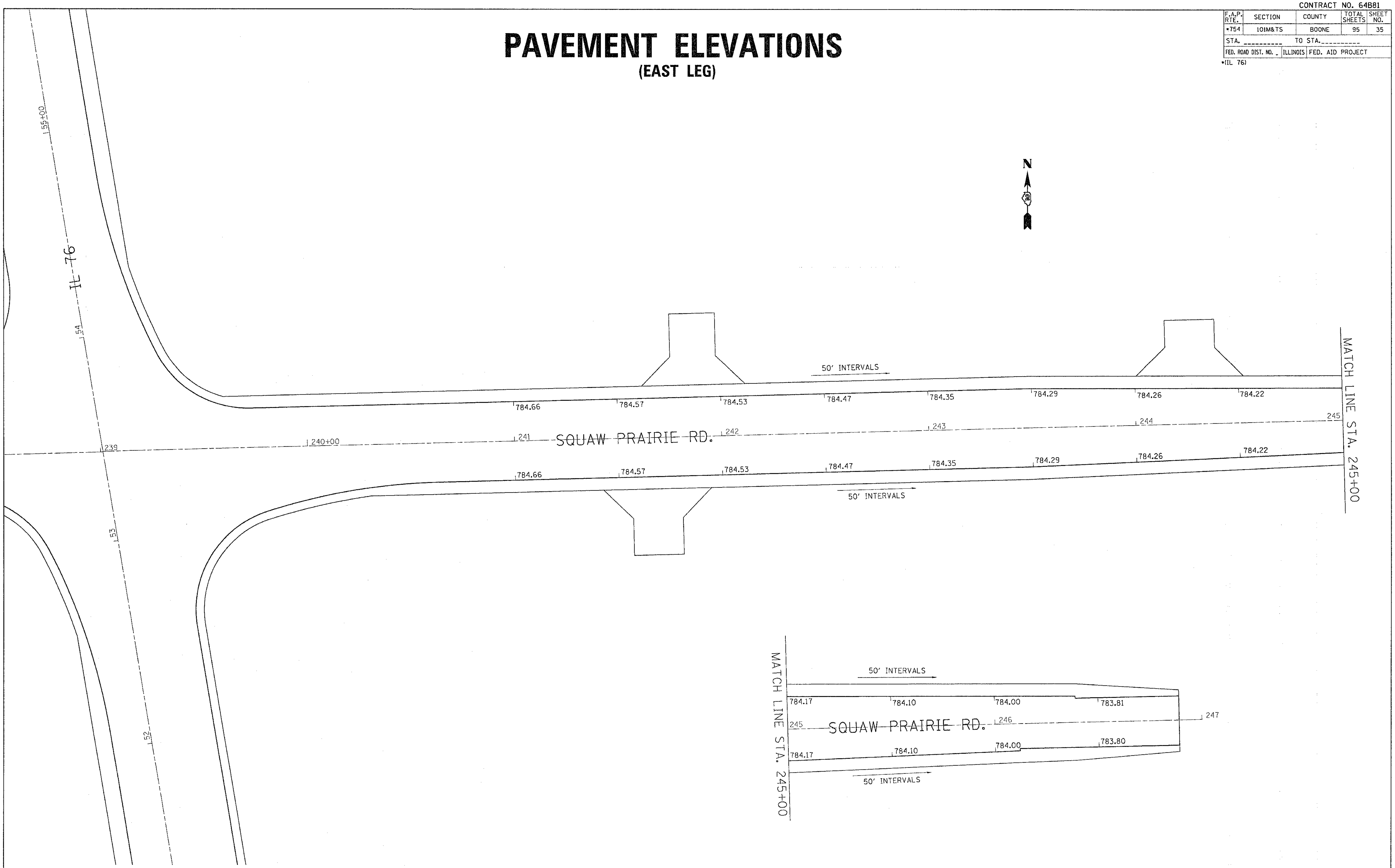
SQUAW PRAIRIE ROAD ELEVATIONS
WEST LEG

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	35
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*(IL 76)

PAVEMENT ELEVATIONS
(EAST LEG)



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PLOT SCALE = 20.0000 ' / IN.
REFERENCE = REF

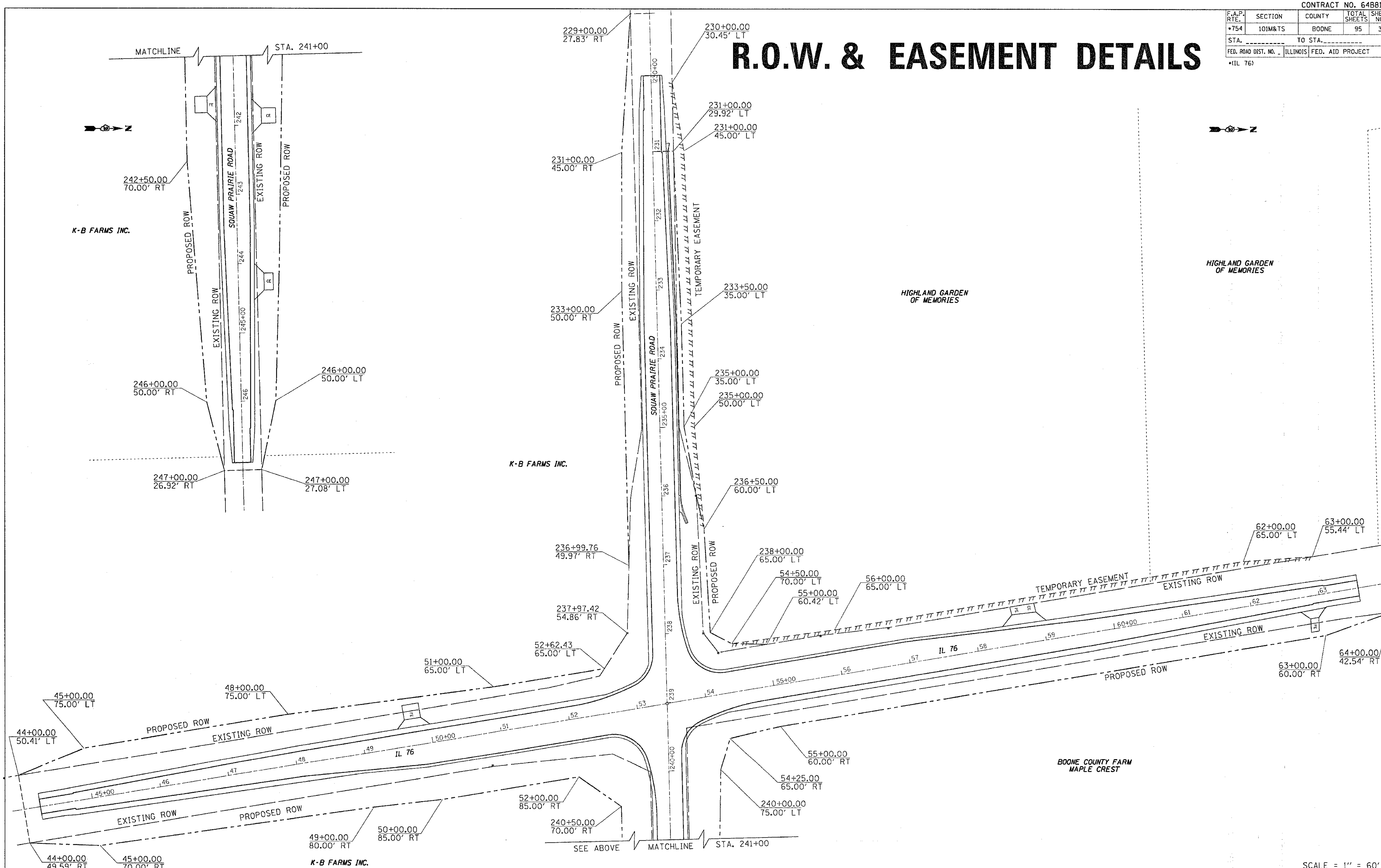
SQUAW PRAIRIE ROAD ELEVATIONS
EAST LEG

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	36
STA. __________	TO STA. __________			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

*(IL 76)

R.O.W. & EASEMENT DETAILS



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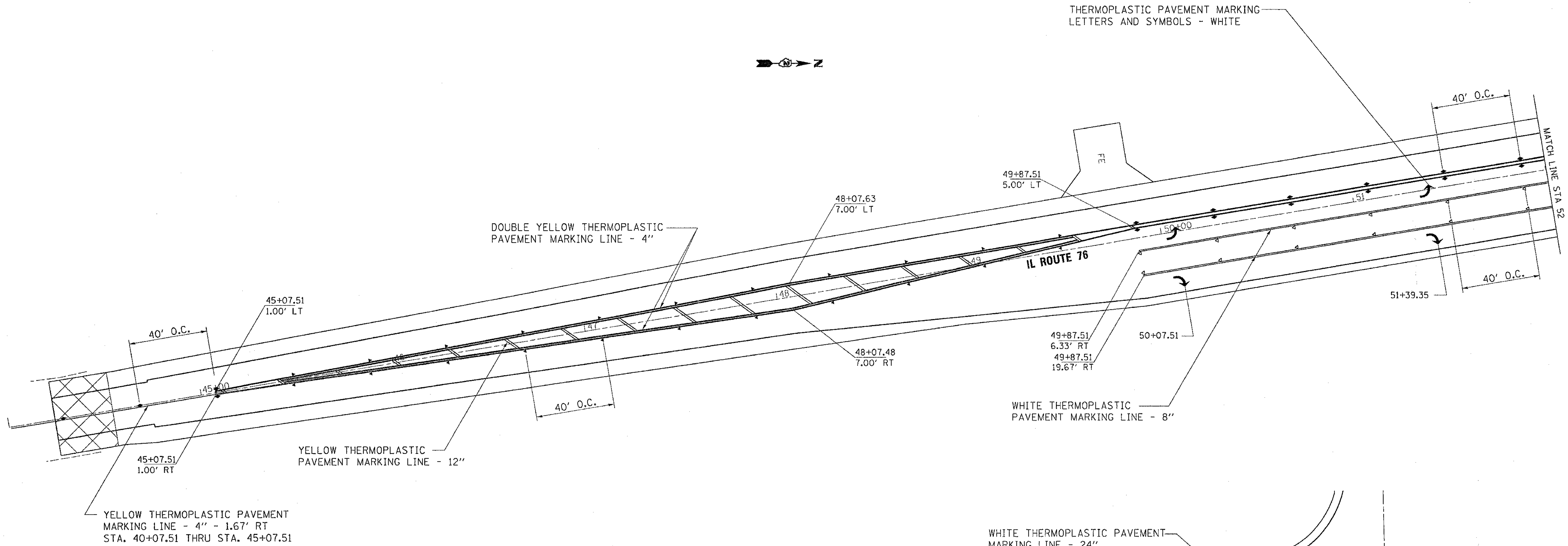
REFERENCE = REF

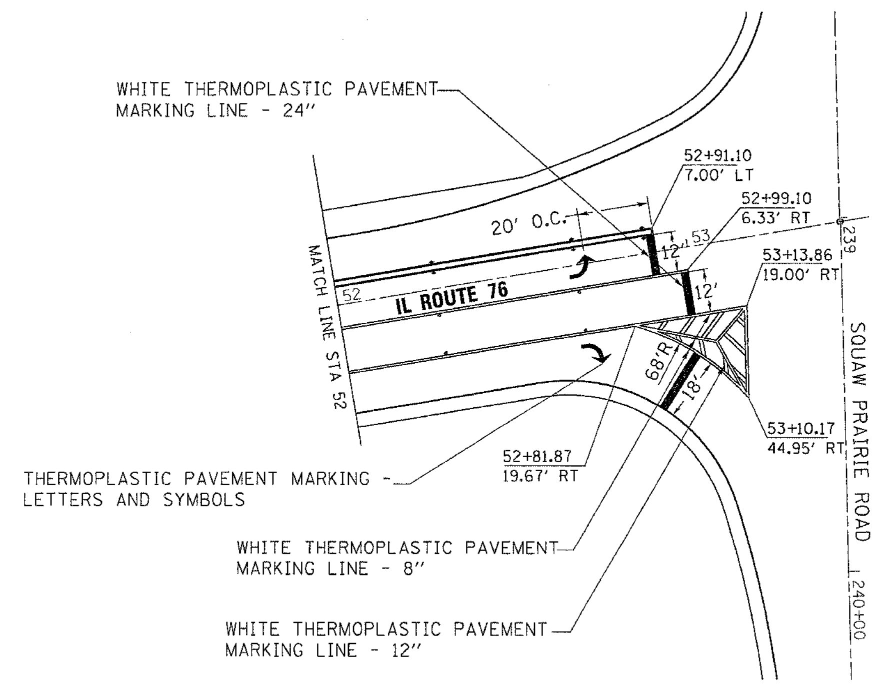
CONTRACT NO. 64881

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•754	101M&TS	BOONE	95	37
STA. _________	TO STA. _________			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

•IL 76

PAVEMENT MARKING DETAILS





◁ ONE-WAY CRYSTAL MARKER
◀ ONE-WAY AMBER MARKER
◆ TWO-WAY AMBER MARKER

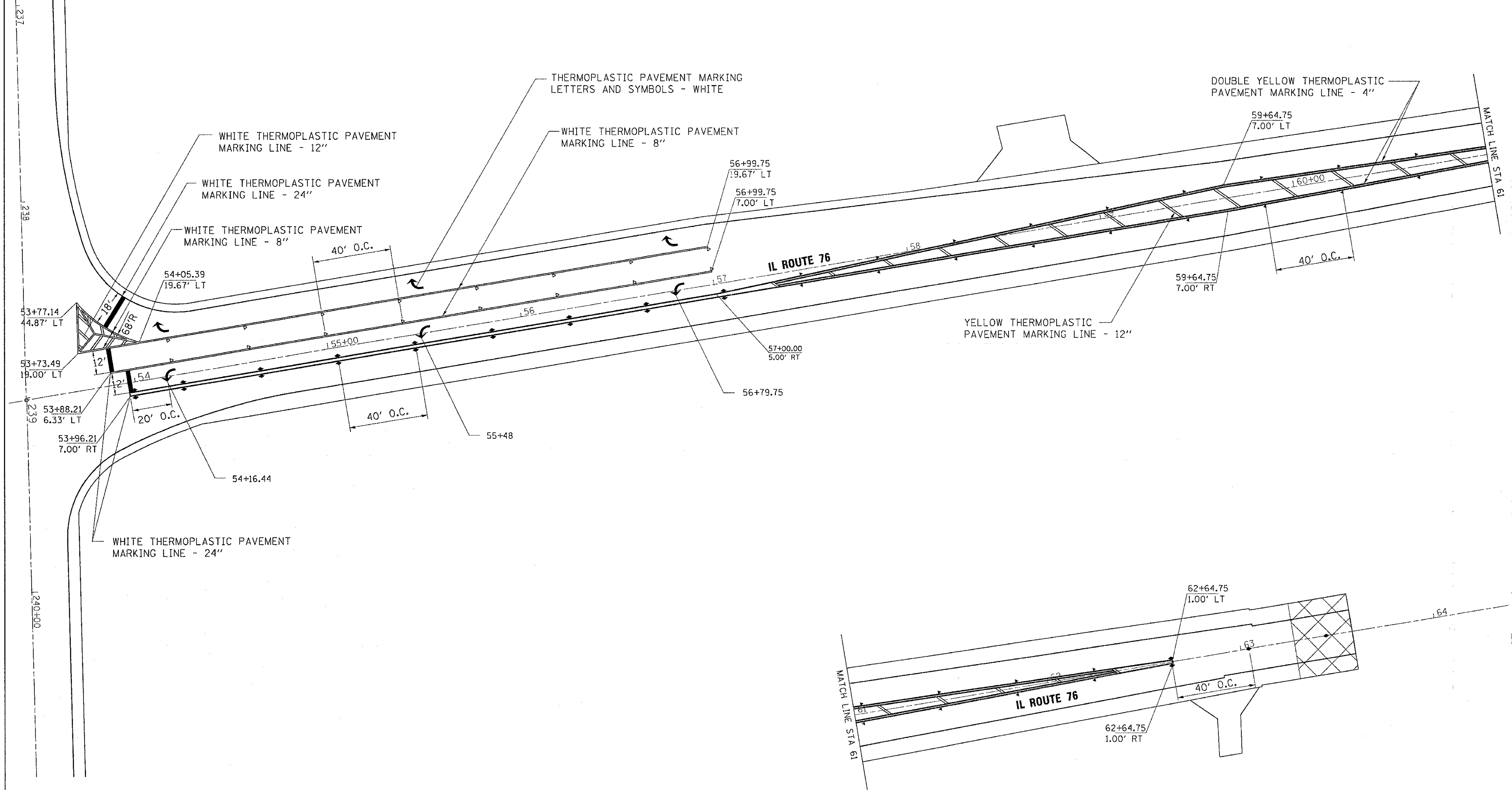
PAVEMENT MARKING DETAILS
IL ROUTE 76 – SOUTH LEG

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•754	101M&TS	BOONE	95	38
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

•IL 76

PAVEMENT MARKING DETAILS



◁ ONE-WAY CRYSTAL MARKER
◀ ONE-WAY AMBER MARKER
◆ TWO-WAY AMBER MARKER

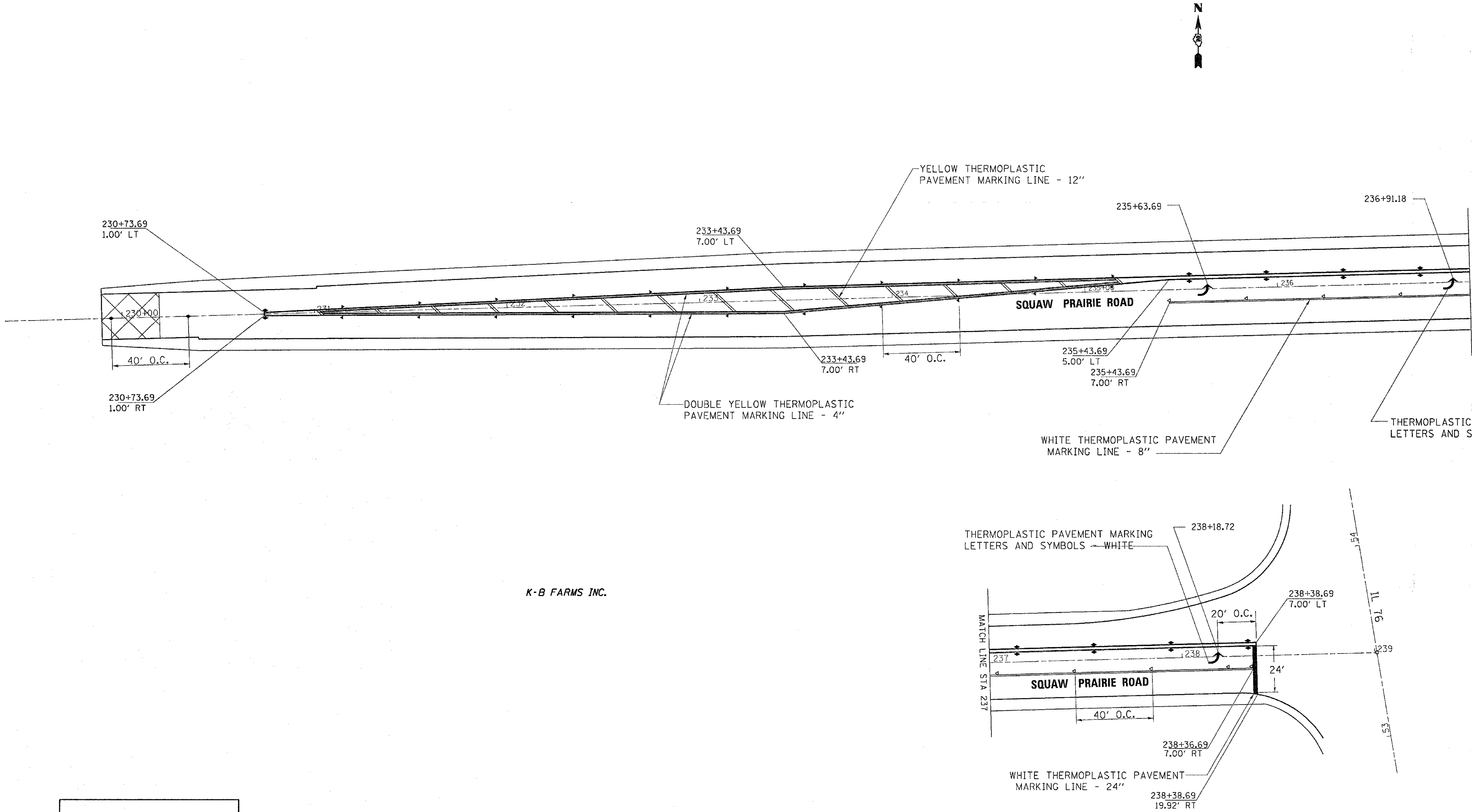
PAVEMENT MARKING DETAILS
IL ROUTE 76 - NORTH LEG

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•754	101M&TS	BOONE	95	39
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

•IL 76

PAVEMENT MARKING DETAILS



- ◁ ONE-WAY CRYSTAL MARKER
- ◀ ONE-WAY AMBER MARKER
- ◆ TWO-WAY AMBER MARKER

PLOT DATE = Fri Dec 08 13:00:00 2006
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PLOT SCALE = 50.0000 ' / IN.
REFERENCE = REF

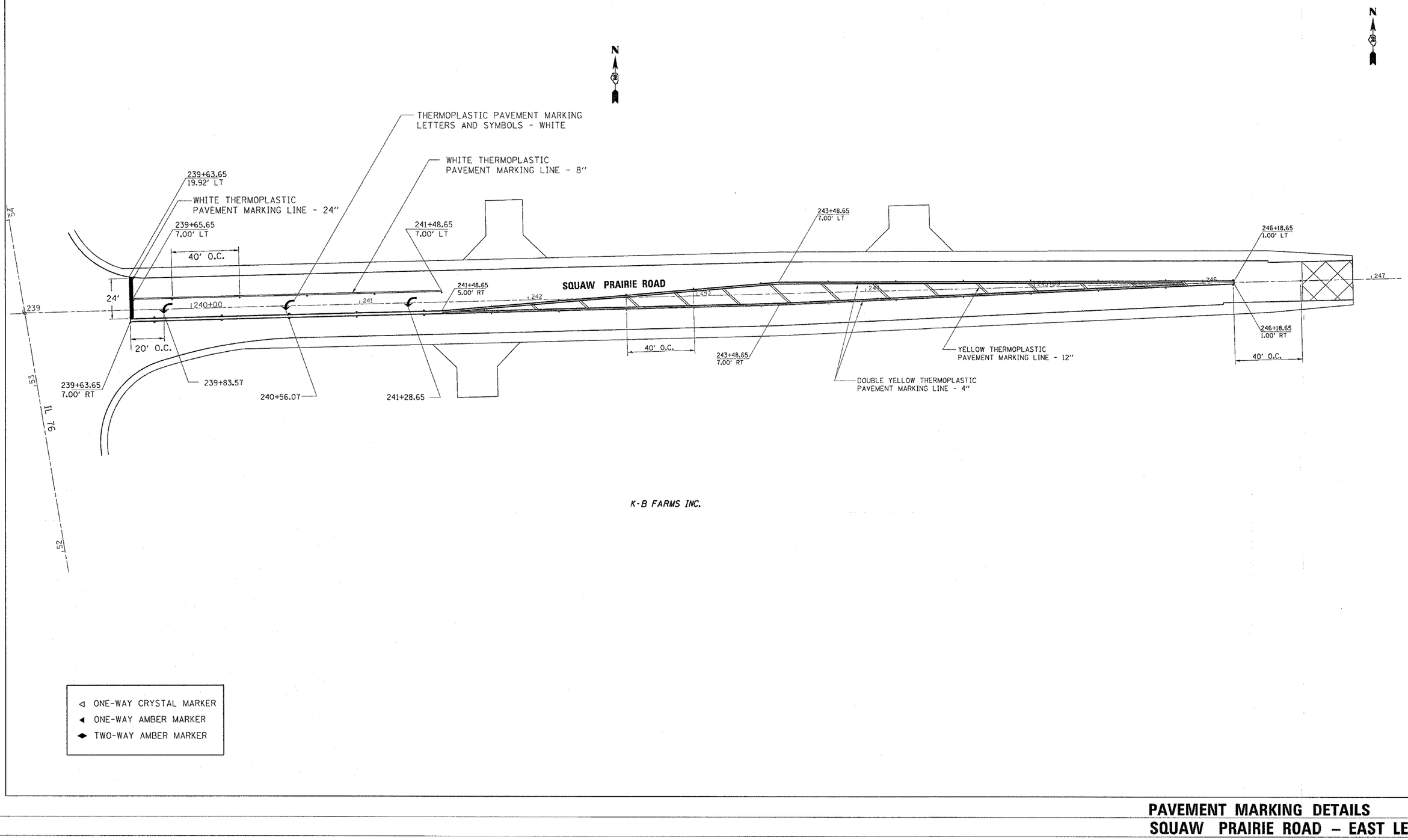
PAVEMENT MARKING DETAILS
SQUAW PRAIRIE ROAD - WEST LEG

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	40
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

*IL 76

PAVEMENT MARKING DETAILS



K-B FARMS INC.

◁ ONE-WAY CRYSTAL MARKER
◀ ONE-WAY AMBER MARKER
◆ TWO-WAY AMBER MARKER

PLOT DATE = Fri Dec 08 13:26:09 2006
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PLOT SCALE = 50.0000 ' / IN.
REFERENCE = REF

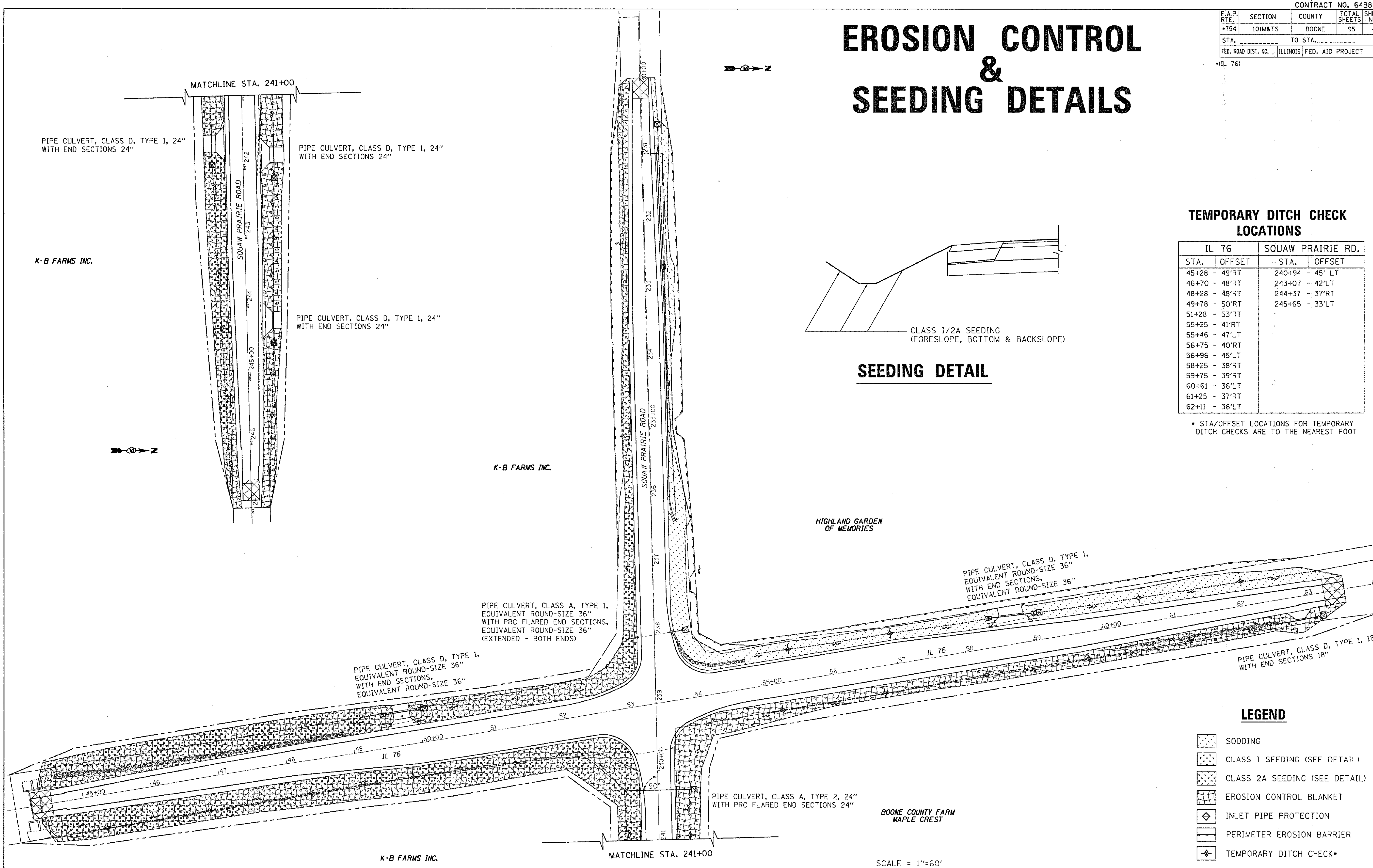
PAVEMENT MARKING DETAILS
SQUAW PRAIRIE ROAD – EAST LEG

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	41
STA. __________	TO STA. __________			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

*(IL 76)

EROSION CONTROL & SEEDING DETAILS



SEEDING DETAIL

TEMPORARY DITCH CHECK LOCATIONS

IL 76		SQUAW PRAIRIE RD.	
STA.	OFFSET	STA.	OFFSET
45+28	- 49'RT	240+94	- 45' LT
46+70	- 48'RT	243+07	- 42'LT
48+28	- 48'RT	244+37	- 37'RT
49+78	- 50'RT	245+65	- 33'LT
51+28	- 53'RT		
55+25	- 41'RT		
55+46	- 47'LT		
56+75	- 40'RT		
56+96	- 45'LT		
58+25	- 38'RT		
59+75	- 39'RT		
60+61	- 36'LT		
61+25	- 37'RT		
62+11	- 36'LT		

* STA/OFFSET LOCATIONS FOR TEMPORARY DITCH CHECKS ARE TO THE NEAREST FOOT

LEGEND

- SODDING
- CLASS I SEEDING (SEE DETAIL)
- CLASS 2A SEEDING (SEE DETAIL)
- EROSION CONTROL BLANKET
- INLET PIPE PROTECTION
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK*

SCALE = 1"=60'

PLOT DATE = Fri Dec 08 11:31:50 2006
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REFERENCE = REF

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	42

STA. __________ TO STA. __________

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

*(IL 76)

TRAFFIC SIGNAL PLANS

	PAY CODE	ITEM	UNIT	TOTAL
*	#2001379	CONDUIT INSTALLED, 1 1/2" DIA., NON-METALLIC	FOOT	11
	72000100	SIGN PANEL TYPE I	SQ FT	12
	72000200	SIGN PANEL TYPE II	SQ FT	32.5
*	80501000	SERVICE INSTALLATION, (SPECIAL)	EACH	1
	81400400	CONCRETE HANDHOLE	EACH	3
	81400600	CONCRETE DOUBLE HANDHOLE	EACH	1
	81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP TYPE USE) 1/C NO. 10	FOOT	1358
	82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	4
*	82500605	LIGHTING CONTROLLER PHOTOCELL RELAY	EACH	1
*	85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
*	86200200	UNINTERRUPTABLE POWER SUPPLY, STANDARD	EACH	1
	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	377
	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	1013
	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	2190
	87301815	ELECTRIC CABLE IN CONDUIT, SERVICE, NO 6 3C	FOOT	21
	87502470	TRAFFIC SIGNAL POST, GALVANIZED STEEL, 13 FT	EACH	1
	87702920	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT	EACH	1
	87702930	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT	EACH	1
	87702940	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT	EACH	1
	87703000	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT	EACH	1
	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6
	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	3
	87800400	CONCRETE FOUNDATION, TYPE E, 30-INCH DIAMETER	FOOT	15.5
	87800415	CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER	FOOT	46.75
	88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	6
	88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	8
	88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	6
	88200400	TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	12
*	X0322674	STROBE LIGHT	EACH	2
*	X0323153	ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C (GREEN)	FOOT	421
*	X0324887	CONDUIT INSTALLED, 2 1/2" DIA., NON-METALLIC	FOOT	54
*	X0324888	CONDUIT INSTALLED, 4" DIA., NON-METALLIC	FOOT	315
*	X0962500	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	L SUM	1
*	XX003165	VIDEO CAMERA DETECTOR SYSTEM	EACH	1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 754 (IL 76)

SECTION 101M&TS

BOONE COUNTY

SCALE: VERT. HORIZ.
DATE

DRAWN BY
CHECKED BY

TRAFFIC SIGNAL PLANS

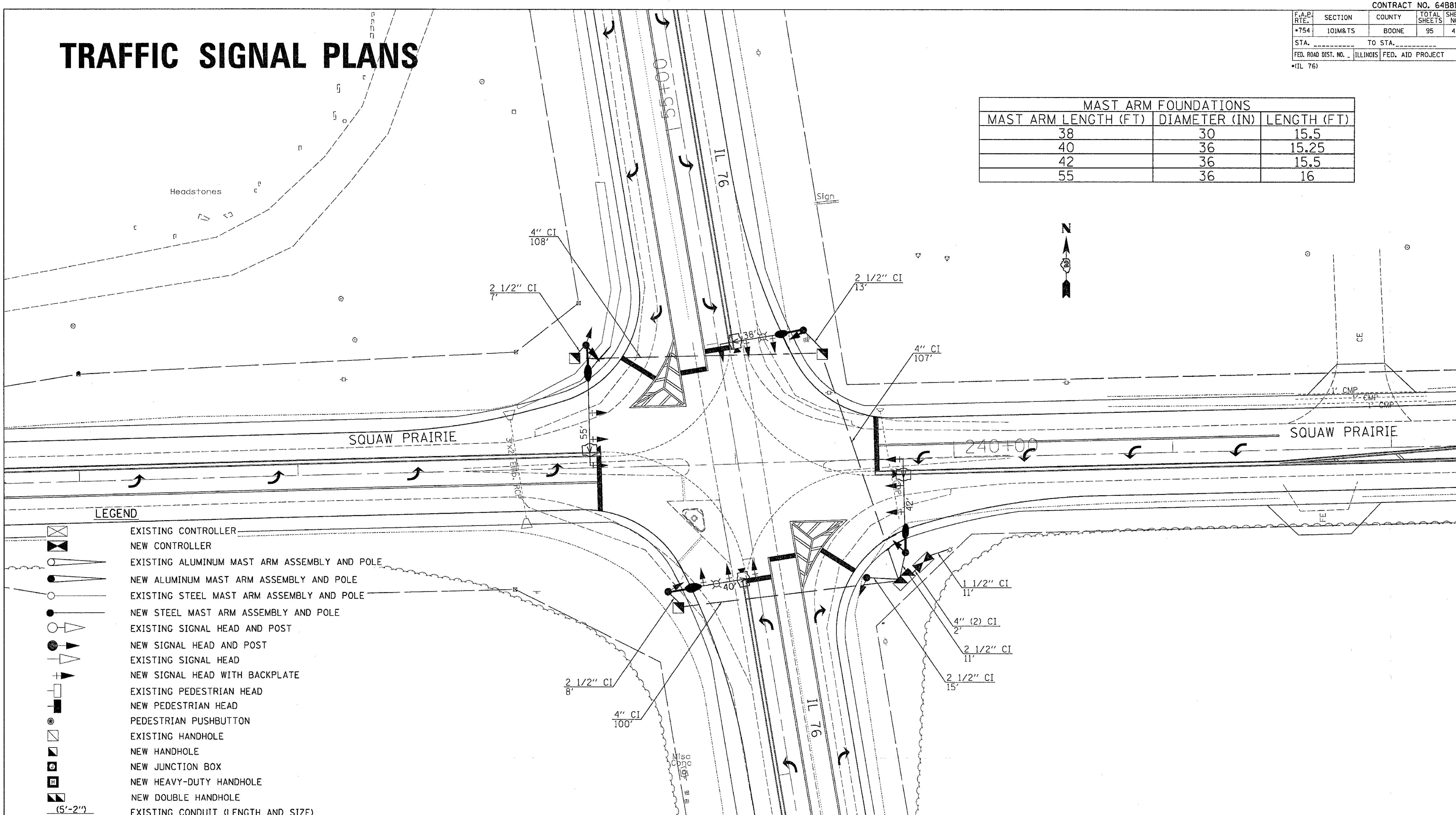
PLOT DATE = Fri Dec 08 11:49:14 2006
FILE NAME = c:\projects\p200106\d00106traf.dgn
PLOT SCALE = 20.0000 ' / IN.
USER NAME = polzinej

TRAFFIC SIGNAL PLANS

CONTRACT NO. 64B81				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•754	101M&TS	BOONE	95	43
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

•(IL 76)

MAST ARM FOUNDATIONS		
MAST ARM LENGTH (FT)	DIAMETER (IN)	LENGTH (FT)
38	30	15.5
40	36	15.25
42	36	15.5
55	36	16



LEGEND

- EXISTING CONTROLLER
- NEW CONTROLLER
- EXISTING ALUMINUM MAST ARM ASSEMBLY AND POLE
- NEW ALUMINUM MAST ARM ASSEMBLY AND POLE
- EXISTING STEEL MAST ARM ASSEMBLY AND POLE
- NEW STEEL MAST ARM ASSEMBLY AND POLE
- EXISTING SIGNAL HEAD AND POST
- NEW SIGNAL HEAD AND POST
- EXISTING SIGNAL HEAD
- NEW SIGNAL HEAD WITH BACKPLATE
- EXISTING PEDESTRIAN HEAD
- NEW PEDESTRIAN HEAD
- PEDESTRIAN PUSHBUTTON
- EXISTING HANDHOLE
- NEW HANDHOLE
- NEW JUNCTION BOX
- NEW HEAVY-DUTY HANDHOLE
- NEW DOUBLE HANDHOLE
- (5'-2") EXISTING CONDUIT (LENGTH AND SIZE)
- NEW LUMINAIRE
- 4" CI / 100' CONDUIT INSTALLED NON-METALLIC
  UPPER NUMERAL INDICATES SIZE OF CONDUIT
  LOWER NUMERAL INDICATES LENGTH
- VIDEO CAMERA DETECTOR

PLOT DATE = Fri Dec 08 11:49:30 2006
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PLOT SCALE = 20.0000 ' / IN.
USER NAME = polzinej

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 754 (IL 76)

SECTION 101M&TS

BOONE COUNTY

SCALE: VERT. HORIZ.
DATE
DRAWN BY
CHECKED BY

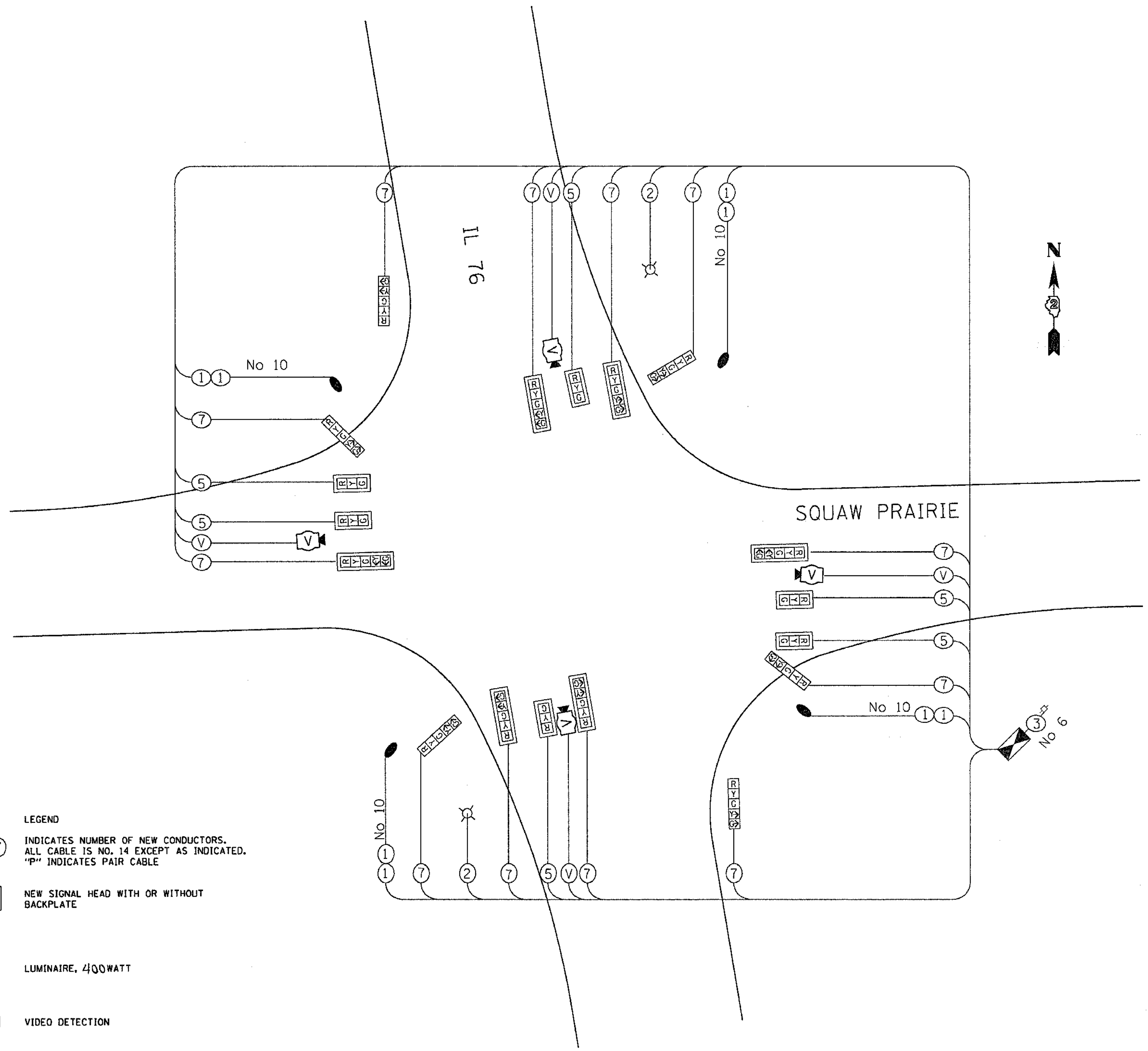
TRAFFIC SIGNAL PLANS

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	44
STA. ________	TO STA. ________			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

*(IL 76)

TRAFFIC SIGNAL PLANS



LEGEND

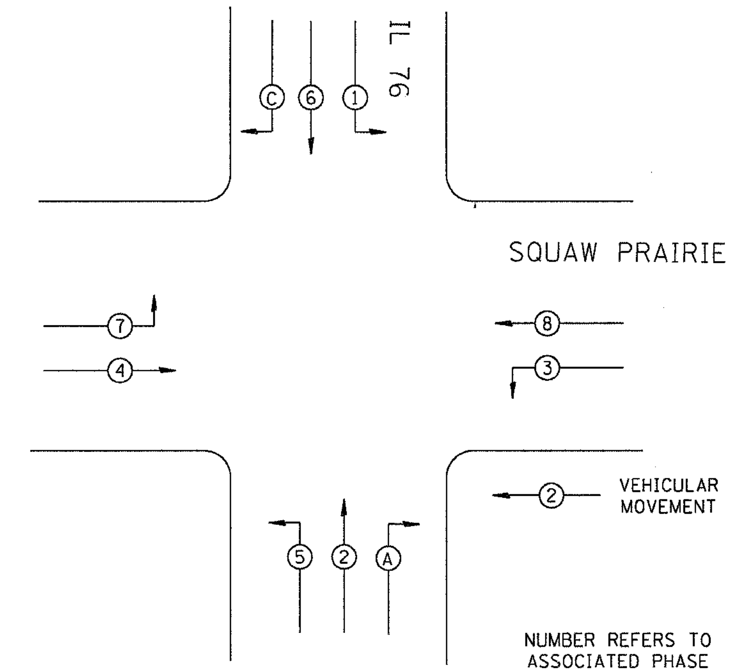
(7) INDICATES NUMBER OF NEW CONDUCTORS. ALL CABLE IS NO. 14 EXCEPT AS INDICATED. "P" INDICATES PAIR CABLE

NEW SIGNAL HEAD WITH OR WITHOUT BACKPLATE

LUMINAIRE, 400WATT

VIDEO DETECTION

PHASE DESIGNATION DIAGRAM



REFER TO STANDARD 857001

DETECTOR ASSIGNMENT

DETECTOR	PHASE NO.	DIRECTION
A	6	SB FAR ADVANCE
B	6	SB MID ADVANCE
C	6	SB PRESENT
D	1	SB LEFT TURN
E	2	NB FAR ADVANCE
F	2	NB MID ADVANCE
G	2	NB PRESENT
H	5	NB LEFT TURN
I	8	WB FAR ADVANCE
J	8	WB MID ADVANCE
K	8	WB PRESENT
L	3	WB LEFT TURN
M	4	EB FAR ADVANCE
N	4	EB MID ADVANCE
O	4	EB PRESENT
P	7	EB LEFT TURN

PLOT DATE = Fri Dec 08 11:49:45 2006
FILE NAME = c:\projects\p200106\d00106traf.dgn
PLOT SCALE = 20.0000 ' / IN.
USER NAME = polzinej

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 754 (IL 76)

SECTION 101M&TS

BOONE COUNTY

SCALE: VERT. HORIZ.

DATE

DRAWN BY

CHECKED BY

TRAFFIC SIGNAL PLANS

CONTRACT NO. 64B81

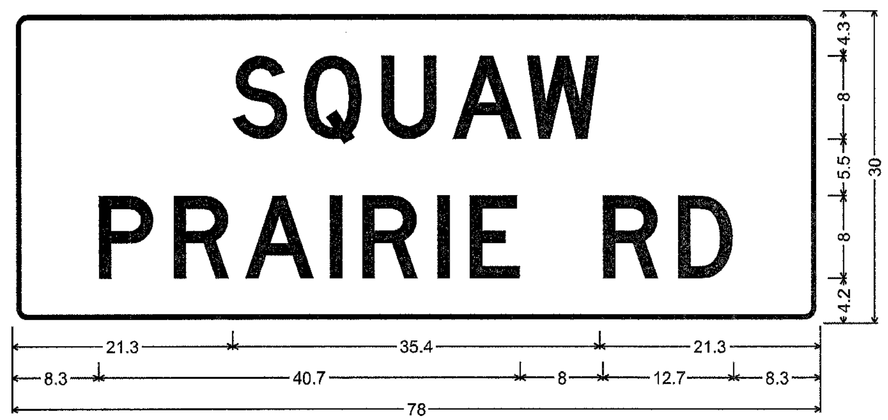
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	45

STA. __________ TO STA.__________

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

*(IL 76)

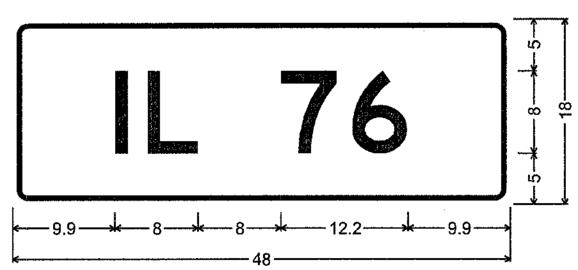
TRAFFIC SIGNAL PLANS



1.5" Radius, 0.5" Border, 0.4" Indent, White on Green;
[SQUAW] D; [PRAIRIE RD] D;
Table of letter and object lefts.

S	Q	U	A	W
21.3	28.2	35.7	42.5	49.7

P	R	A	I	R	I	E	R	D
8.3	15.6	22.5	30.7	33.8	41.0	44.2	57.0	64.3



1.5" Radius, 0.5" Border, 0.4" Indent, White on Green;
[IL 76] D;
Table of letter and object lefts.

I	L	7	6
9.9	13.0	25.9	32.8

GENERAL NOTES

1. THE MOUNTING HEIGHT FOR THE LUMINAIRES ON THE COMBINATION MAST-ARM ASSEMBLIES SHALL BE 35'-0" HORIZONTAL MOUNTED WITH A 12' ARM
2. THE "SIGNAL AHEAD" SIGNS SHALL REPLACE THE EXISTING "INTERSECTION AHEAD" SIGNS ON THE EXISTING POST LOCATION ON ALL FOUR LEGS OF THE INTERSECTION.
THE CONTRACTOR SHALL CONTACT KURT GLAZIER, 815-284-5478, AT THE ILLINOIS DEPARTMENT OF TRANSPORATION TWO (2) WEEKS PRIOR TO THE SIGNAL TURN-ON FOR THIS SIGN REPLACEMENT.
3. THE PAY ITEM "REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT" SHALL BE PREFORMED BY THE CONTRACTOR AND SHALL INCLUDE ALL MATERIAL AND LABOR TO COMPLETE.
THE FOLLOWING ITEMS SHALL REMAIN THE PROPERTY OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND SHALL BE REMOVED AND DELIVERED TO A LOCATION DETERMINED BY CHRIS DARASKA 815-284-5918.
4 - EACH SINGLE FACE FLASHING BEACON
1 - EACH TRAFFIC SIGNAL POST ASSEMBLY
3 - EACH FLASHER CONTROLLER
ALL OTHER UNMENTIONED EQUIPMENT SHALL REMAIN THE PROPERTY OF THE CONTRACTOR FOR SALVAGE.

PLOT DATE = Fri Dec 08 11:50:11 2006
FILE NAME = c:\projects\p200106\d00106traf.dgn
PLOT SCALE = 20.0000 ' / IN.
USER NAME = polzineJ

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 754 (IL 76)

SECTION 101M&TS

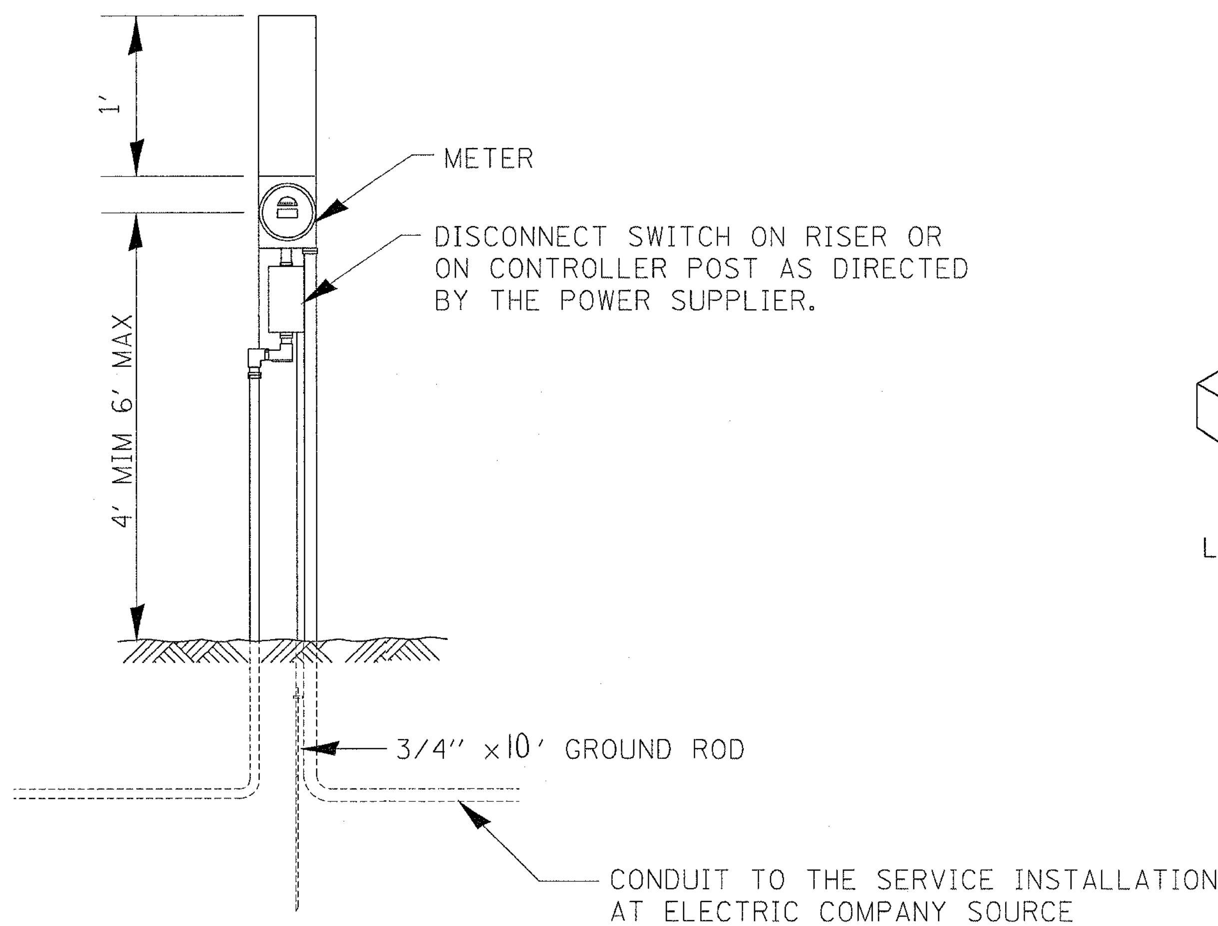
BOONE COUNTY

SCALE: VERT.
HORIZ.
DATE

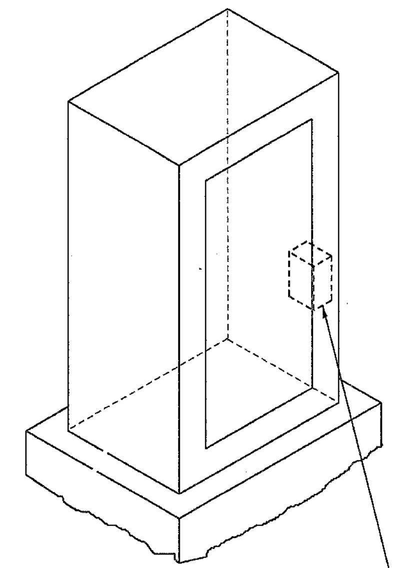
DRAWN BY
CHECKED BY

TRAFFIC SIGNAL PLANS

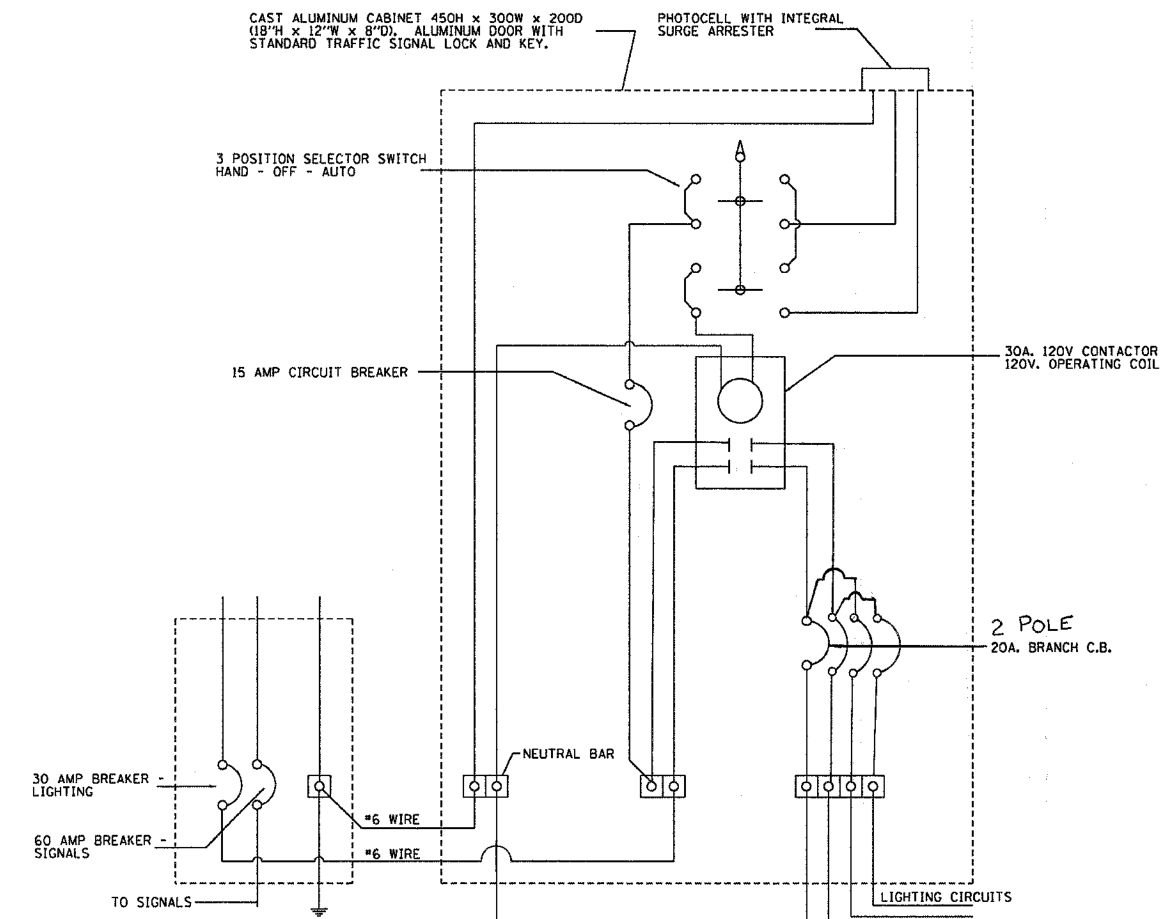
TRAFFIC SIGNAL PLANS



ELECTRIC SERVICE INSTALLATION, SPECIAL
(SEE SPECIAL PROVISIONS)
(DETAIL ONLY SHOW GENERAL SERVICE
WHICH VARIES BY PROVIDERS)



LIGHTING CONTROLLER



DISCONNECT SWITCH

LIGHTING CONTROLLER (PHOTOCELL RELAY)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE 754 (IL 76)

SECTION 101M&TS

BOONE COUNTY

SCALE: VERT.
HORIZ.
DATE

DRAWN BY
CHECKED BY

PLOT DATE = Fri Dec 08 11:50:44 2006
FILE NAME = c:\projects\p200106\d00106traf.dgn
PLOT SCALE = 20.0000 ' / IN.
USER NAME = polzinej

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	47
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

*(IL 76)

SOIL BORINGS

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 1/23/06

ROUTE FA 754 DESCRIPTION P92-001-06 Light Foundation - W. of IL 76 and N. of Squaw Prairie Road LOGGED BY J. Strating

SECTION 101M & TS LOCATION Belvidere Twp. - 14 NW, SEC. , TWP. 44N, RNG. 3E

COUNTY Boone DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. _____
Station _____

BORING NO. B-1
Station 37+73
Offset 17.00ft Lt CL
Ground Surface Elev. 99.0 ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 77.0 ft ▼
Upon Completion 75.0 ft ▽
After ____ Hrs. _____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM dark brown SILTY CLAY LOAM		0.8 P	28
97.00			
MEDIUM brown SILTY CLAY LOAM	2 3 5	1.0 P	29
95.50			
MEDIUM brown SANDY LOAM	-5 1 2 3	0.5 P	21
92.50			
MEDIUM tan clean medium SAND with GRAVEL	3 6 7		
90.50			
Same as above	-10 7 10 12		
88.00			
Same as above	10 11 12		
85.50			
Same as above	-15 9 9 9		
83.00			
Same as above	5 9 9		
80.50			
	-20		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM tan clean moist SAND with GRAVEL *(continued)*	7 7 9		
78.00			
MEDIUM tan clean medium SAND	4 8 12		
75.50			
MEDIUM tan clean medium SAND with GRAVEL	-25 4 7 11		
73.00			
End of Boring			
	-30		
	-35		
	-40		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 1/23/06

ROUTE FA 754 DESCRIPTION P92-001-06 Light Foundation - E. of IL 76 and S. of Squaw Prairie Road LOGGED BY J. Strating

SECTION 101M & TS LOCATION Belvidere Twp. - 14 NW, SEC. , TWP. 44N, RNG. 3E

COUNTY Boone DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. _____
Station _____

BORING NO. B-2
Station 40+00
Offset 29.00ft Rt CL
Ground Surface Elev. 97.4 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 75.4 ft ▼
Upon Completion 0.9 ft
After ____ Hrs. _____ ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM dark brown SILTY CLAY LOAM		0.8 P	26
95.40			
STIFF brown SILTY CLAY LOAM	4 5 4	1.8 B	25
93.40			
LOOSE tan clean medium SAND with GRAVEL	-5 3 2 2		
91.40			
MEDIUM tan clean medium SAND with GRAVEL	4 4 7		
88.90			
Same as above	-10 4 5 10		
86.40			
Same as above	6 7 10		
83.90			
Same as above	-15 7 11 14		
81.40			
Same as above	7 10 13		
78.90			
	-20		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM tan moist clean medium SAND with GRAVEL *(continued)*	6 9 9		
76.40			
MEDIUM tan clean medium SAND with GRAVEL	5 8 10		
73.90			
Same as above	-25 4 10 13		
71.40			
End of Boring			
	-30		
	-35		
	-40		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

PLOT DATE = Thu Dec 07 13:47:34 2006
FILE NAME = s:\projects\p2001086\d0106cvr.dgn
PLOT SCALE = 50.0000 ' / IN.
REFERENCE = REF

SHAFT ANALYSIS

BROM'S OVERTURNING & TORSION SHAFT ANALYSIS

I.D.O.T. BBS CENTRAL GEOTECHNICAL UNIT

Modified on 9/1/2005

38 foot mast arm

TOTAL MOMENT APPLIED AT TOP OF SHAFT ========== [illegible] KIP-FT (POSITIVE BEING CLOCKWISE)
TOTAL SHEAR APPLIED AT TOP OF SHAFT ========== [illegible] KIPS (POSITIVE TO THE RIGHT)
TOTAL TORQUE APPLIED AT TOP OF SHAFT ========== [illegible] FT-KIPS
DIAMETER OF FOUNDATION SHAFT ================ [illegible] FT. (WHICH IS A 30 IN. DIAMETER)
DEPTH BELOW SURFACE TO WATERTABLE ========== [illegible] FT. (MUST BE PLACED BETWEEN SOIL LAYERS)
DEPTH OF FROST/DISTURBED SOIL BELOW SURFACE == [illegible] FT. (MUST BE PLACED BETWEEN SOIL LAYERS) (FOR TORQUE ANALYSIS)
DEPTH OF NEGLECTED SOIL PRESSURE (1.5xDIA.) ===== [illegible] FT. (PLACE BETWEEN LAYERS) (FOR COHESIVE LAYERS/MOMENT ANALYSIS)
CRITICAL SURFACE CROSS SLOPE IN A 15' RADIUS ==== [illegible] DEG. (WHICH IS A -3.01': 1' SLOPE)
FACTOR OF SAFETY FOR OVERTURNING ============ [illegible] F.S. (REDUCES SOIL SHEAR STRENGTH BY 69.0%)
FACTOR OF SAFETY FOR TWISTING ================ [illegible] F.S. (REDUCES SKIN FRICTION RESISTING TORQUE BY 11.3%)

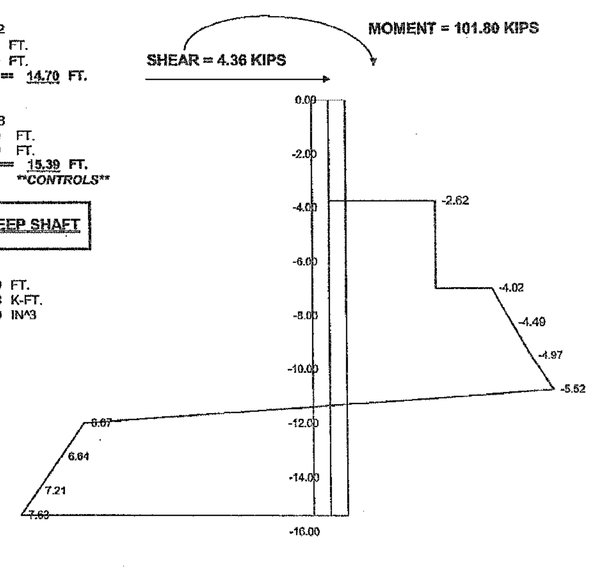
	LAYER THICK (FT.)	COHES. INTER. (KSF)	S.P.T. BLOWS (N)	FRICTON ANGLE (DEG)	UNIT WEIGHT (PCF)	BOUYANT UNIT WT. (PCF)	SOIL PRESSURE (K/FT) AT TOP OF EACH LAYER	SOIL PRESSURE (K/FT) AT BOT. OF EACH LAYER	SUM SHEAR (KIPS) AT TOP OF EACH LAYER	SUM SHEAR (KIPS) AT BOT. OF EACH LAYER	SUM MOMENT (KIP-FT) AT TOP OF EACH LAYER	SUM MOMENT (KIP-FT) AT BOT. OF EACH LAYER	SUM TORQUE (FT-K.) AT TOP OF EACH LAYER	SUM TORQUE (FT-K.) AT BOT. OF EACH LAYER
1	3.00	[illegible]	[illegible]	0.0	115.7	115.7	0.000	0.000	4.360	4.360	101.800	114.880	66.000	66.000
2	0.75	[illegible]	[illegible]	0.0	121.5	59.1	0.000	0.000	4.360	4.360	114.880	118.150	66.000	63.127
3	[illegible]	[illegible]	[illegible]	0.0	115.7	53.3	-2.620	-2.620	4.360	2.395	118.150	120.683	63.127	61.332
4	[illegible]	[illegible]	[illegible]	0.0	115.7	53.3	-2.620	-2.620	2.395	-0.880	120.683	121.630	61.332	58.340
5	[illegible]	[illegible]	[illegible]	0.0	115.7	53.3	-2.620	-2.620	-0.880	-4.154	121.630	118.484	58.340	55.347
6	[illegible]	[illegible]	[illegible]	28.1	115.7	53.3	-4.019	-4.493	-4.154	-9.475	118.484	110.028	55.347	48.012
7	[illegible]	[illegible]	[illegible]	28.1	115.7	53.3	-4.493	-4.967	-9.475	-15.381	110.028	94.571	48.012	40.080
8	[illegible]	[illegible]	[illegible]	31.6	124.2	61.8	-4.967	-5.517	-15.381	-21.933	94.571	71.320	40.080	31.501
9	[illegible]	[illegible]	[illegible]	31.6	124.2	61.8	-5.517	6.066	-21.933	-23.233	71.320	40.895	31.501	22.250
10	[illegible]	[illegible]	[illegible]	32.9	126.9	64.5	6.066	6.640	-23.233	-15.292	40.895	16.742	22.250	12.338
11	[illegible]	[illegible]	[illegible]	32.9	126.9	64.5	6.640	7.214	-15.292	-6.633	16.742	2.964	12.338	1.777
12	[illegible]	[illegible]	[illegible]	33.5	128.0	65.6	7.214	7.632	-6.633	0.000	2.964	-0.027	1.777	-6.159
13	[illegible]	[illegible]	[illegible]	33.5	128.0	65.6								
14	[illegible]	[illegible]	[illegible]	33.5	128.0	65.6								
15	[illegible]	[illegible]	[illegible]	33.8	128.5	66.1								
16	[illegible]	[illegible]	[illegible]	33.8	128.5	66.1								
17	[illegible]	[illegible]	[illegible]	33.2	127.5	65.1								
18	[illegible]	[illegible]	[illegible]	33.2	127.5	65.1								

LAYER OF ZERO TORQUE ======= 12
DISTANCE THRU LAYER ========= 0.20 FT.
SUM OF LAYERS ABOVE ========= 14.50 FT.
LENGTH TO RESIST "TORQUE" WITH F.S. ===== 14.70 FT.

LAYER OF ZERO MOMENT ======= 13
DISTANCE THRU LAYER ========= 0.00 FT.
SUM OF LAYERS ABOVE ========= 15.39 FT.
LENGTH TO RESIST "MOMENT" WITH F.S. ===== 15.39 FT.
CONTROLS

USE 30.0 IN. DIAMETER, 15.39 FT. DEEP SHAFT

SHAFT ROTATION DEPTH ======== 11.500 FT.
MAXIMUM MOMENT ============ 121.78 K-FT.
MIN. REQ'D SECT. MODULUS ===== 73.80 IN^3



SHAFT SOIL PRESSURE DIAGRAM

4/19/2006 *BROMS SHAFT FOUNDATION ANALYSIS* Broms Overturning Torsion Shaft.xls

BROM'S OVERTURNING & TORSION SHAFT ANALYSIS

I.D.O.T. BBS CENTRAL GEOTECHNICAL UNIT

Modified on 9/1/2005

38 foot mast arm

TOTAL MOMENT APPLIED AT TOP OF SHAFT ========== [illegible] KIP-FT (POSITIVE BEING CLOCKWISE)
TOTAL SHEAR APPLIED AT TOP OF SHAFT ========== [illegible] KIPS (POSITIVE TO THE RIGHT)
TOTAL TORQUE APPLIED AT TOP OF SHAFT ========== [illegible] FT-KIPS
DIAMETER OF FOUNDATION SHAFT ================ [illegible] FT. (WHICH IS A 36 IN. DIAMETER)
DEPTH BELOW SURFACE TO WATERTABLE ========== [illegible] FT. (MUST BE PLACED BETWEEN SOIL LAYERS)
DEPTH OF FROST/DISTURBED SOIL BELOW SURFACE == [illegible] FT. (MUST BE PLACED BETWEEN SOIL LAYERS) (FOR TORQUE ANALYSIS)
DEPTH OF NEGLECTED SOIL PRESSURE (1.5xDIA.) ===== [illegible] FT. (PLACE BETWEEN LAYERS) (FOR COHESIVE LAYERS/MOMENT ANALYSIS)
CRITICAL SURFACE CROSS SLOPE IN A 15' RADIUS ==== [illegible] DEG. (WHICH IS A -3.01': 1' SLOPE)
FACTOR OF SAFETY FOR OVERTURNING ============ [illegible] F.S. (REDUCES SOIL SHEAR STRENGTH BY 69.0%)
FACTOR OF SAFETY FOR TWISTING ================ [illegible] F.S. (REDUCES SKIN FRICTION RESISTING TORQUE BY 11.3%)

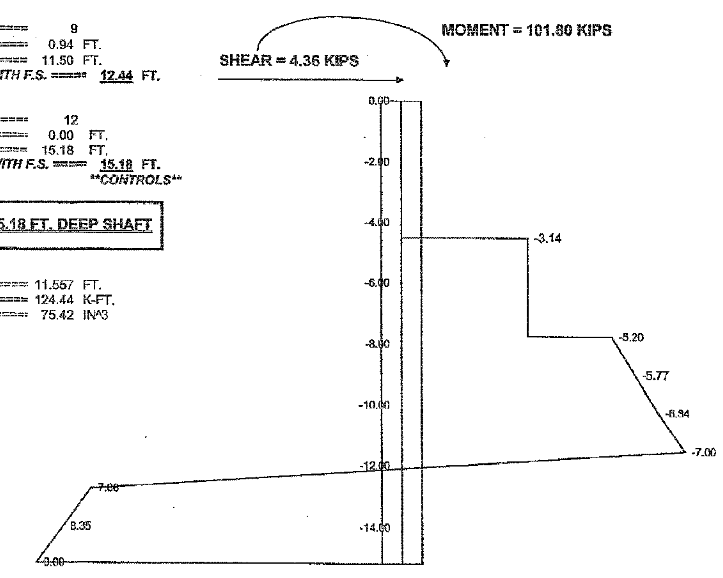
	LAYER THICK (FT.)	COHES. INTER. (KSF)	S.P.T. BLOWS (N)	FRICTON ANGLE (DEG)	UNIT WEIGHT (PCF)	BOUYANT UNIT WT. (PCF)	SOIL PRESSURE (K/FT) AT TOP OF EACH LAYER	SOIL PRESSURE (K/FT) AT BOT. OF EACH LAYER	SUM SHEAR (KIPS) AT TOP OF EACH LAYER	SUM SHEAR (KIPS) AT BOT. OF EACH LAYER	SUM MOMENT (KIP-FT) AT TOP OF EACH LAYER	SUM MOMENT (KIP-FT) AT BOT. OF EACH LAYER	SUM TORQUE (FT-K.) AT TOP OF EACH LAYER	SUM TORQUE (FT-K.) AT BOT. OF EACH LAYER
1	3.00	[illegible]	[illegible]	0.0	115.7	115.7	0.000	0.000	4.360	4.360	101.800	114.880	66.000	66.000
2	1.50	[illegible]	[illegible]	0.0	121.5	59.1	0.000	0.000	4.360	4.360	114.880	121.420	66.000	57.727
3	[illegible]	[illegible]	[illegible]	0.0	115.7	53.3	-3.144	-3.144	4.360	2.002	121.420	123.806	57.727	55.142
4	[illegible]	[illegible]	[illegible]	0.0	115.7	53.3	-3.144	-3.144	2.002	-1.927	123.806	123.853	55.142	50.833
5	[illegible]	[illegible]	[illegible]	0.0	115.7	53.3	-3.144	-3.144	-1.927	-5.857	123.853	118.987	50.833	46.524
6	[illegible]	[illegible]	[illegible]	28.1	115.7	53.3	-5.201	-5.770	-5.857	-12.714	118.987	107.454	46.524	35.359
7	[illegible]	[illegible]	[illegible]	28.1	115.7	53.3	-5.770	-6.339	-12.714	-20.275	107.454	86.931	35.359	23.361
8	[illegible]	[illegible]	[illegible]	31.6	124.2	61.8	-6.339	-6.998	-20.275	-28.610	86.931	56.464	23.361	10.455
9	[illegible]	[illegible]	[illegible]	31.6	124.2	61.8	-6.998	7.658	-28.610	-20.273	56.464	25.322	10.455	-3.393
10	[illegible]	[illegible]	[illegible]	32.9	126.9	64.5	7.658	8.346	-20.273	-10.270	25.322	6.143		
11	[illegible]	[illegible]	[illegible]	32.9	126.9	64.5	8.346	8.999	-10.270	0.000	6.143	-0.015		
12	[illegible]	[illegible]	[illegible]	32.9	126.9	64.5								
13	[illegible]	[illegible]	[illegible]	33.5	128.0	65.6								
14	[illegible]	[illegible]	[illegible]	33.5	128.0	65.6								
15	[illegible]	[illegible]	[illegible]	33.8	128.5	66.1								
16	[illegible]	[illegible]	[illegible]	33.8	128.5	66.1								
17	[illegible]	[illegible]	[illegible]	33.2	127.5	65.1								
18	[illegible]	[illegible]	[illegible]	33.2	127.5	65.1								

LAYER OF ZERO TORQUE ======= 9
DISTANCE THRU LAYER ========= 0.94 FT.
SUM OF LAYERS ABOVE ========= 11.50 FT.
LENGTH TO RESIST "TORQUE" WITH F.S. ===== 12.44 FT.

LAYER OF ZERO MOMENT ======= 12
DISTANCE THRU LAYER ========= 0.00 FT.
SUM OF LAYERS ABOVE ========= 15.18 FT.
LENGTH TO RESIST "MOMENT" WITH F.S. ==== 15.18 FT.
CONTROLS

USE 36.0 IN. DIAMETER, 15.18 FT. DEEP SHAFT

SHAFT ROTATION DEPTH ======== 11.557 FT.
MAXIMUM MOMENT ============ 124.44 K-FT.
MIN. REQ'D SECT. MODULUS ===== 75.42 IN^3



SHAFT SOIL PRESSURE DIAGRAM

4/19/2006 *BROMS SHAFT FOUNDATION ANALYSIS* Broms Overturning Torsion Shaft.xls

PLOT DATE = Thu Dec 07 13:46:03 2006
FILE NAME = c:\projects\p200106\d00106cvr.dgn
PLOT SCALE = 50.0000 ' / IN.
REFERENCE = REF

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	49
STA. _____	TO STA._____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

*(IL76)

SHAFT ANALYSIS

BROM'S OVERTURNING & TORSION SHAFT ANALYSIS

I.D.O.T. BBS CENTRAL GEOTECHNICAL UNIT — Modified on 9/1/2005

40 foot mast arm

TOTAL MOMENT APPLIED AT TOP OF SHAFT ========== KIP-FT (POSITIVE BEING CLOCKWISE)
TOTAL SHEAR APPLIED AT TOP OF SHAFT ========== KIPS (POSITIVE TO THE RIGHT)
TOTAL TORQUE APPLIED AT TOP OF SHAFT ========== FT-KIPS
DIAMETER OF FOUNDATION SHAFT ========== FT. (WHICH IS A 36 IN. DIAMETER)
DEPTH BELOW SURFACE TO WATERTABLE ========== FT. (MUST BE PLACED BETWEEN SOIL LAYERS)
DEPTH OF FROST/DISTURBED SOIL BELOW SURFACE == FT. (MUST BE PLACED BETWEEN SOIL LAYERS) (FOR TORQUE ANALYSIS)
DEPTH OF NEGLECTED SOIL PRESSURE (1.5xDIA.) ========== FT. (PLACE BETWEEN LAYERS) (FOR COHESIVE LAYERS/MOMENT ANALYSIS)
CRITICAL SURFACE CROSS SLOPE IN A 15' RADIUS ========== DEG. (WHICH IS A -3.01: 1' SLOPE)
FACTOR OF SAFETY FOR OVERTURNING ========== F.S. (REDUCES SOIL SHEAR STRENGTH BY 69.0%)
FACTOR OF SAFETY FOR TWISTING ========== F.S. (REDUCES SKIN FRICTION RESISTING TORQUE BY 11.3%)

	LAYER THICK (FT.)	COHES. INTER. (KSF)	S.P.T. BLOWS (N)	FRICTON ANGLE (DEG)	UNIT WEIGHT (PCF)	BOUYANT UNIT WT. (PCF)	SOIL PRESSURE (K/FT) AT TOP / AT BOT. OF EACH LAYER		SUM SHEAR (KIPS) AT TOP / AT BOT. OF EACH LAYER		SUM MOMENT (KIP-FT) AT TOP / AT BOT. OF EACH LAYER		SUM TORQUE (FT-K.) AT TOP / AT BOT. OF EACH LAYER	
1	3.00			0.0	115.7	115.7	0.000	0.000	4.390	4.390	102.906	116.070	70.100	70.100
2	1.50			0.0	121.5	59.1	0.000	0.000	4.390	4.390	116.070	122.655	70.100	61.827
3				0.0	115.7	53.3	-3.144	-3.144	4.390	2.032	122.655	125.063	61.827	59.242
4				0.0	115.7	53.3	-3.144	-3.144	2.032	-1.897	125.063	125.148	59.242	54.933
5				0.0	115.7	53.3	-3.144	-3.144	-1.897	-5.827	125.148	120.329	54.933	50.524
6				28.1	115.7	53.3	-5.201	-5.770	-5.827	-12.684	120.329	108.824	50.624	39.459
7				28.1	115.7	53.3	-5.770	-6.339	-12.684	-20.245	108.824	88.338	39.459	27.461
8				31.6	124.2	61.8	-6.339	-6.998	-20.245	-28.580	88.338	57.909	27.461	14.555
9				31.6	124.2	61.8	-6.998	7.658	-28.580	-20.671	57.909	26.294	14.555	0.707
10				32.9	126.9	64.5	7.658	8.346	-20.671	-10.669	26.294	6.617	0.707	-14.068
11				32.9	126.9	64.5	8.346	9.023	-10.669	0.000	6.617	-0.021		
12				32.9	126.9	64.5								
13				33.5	128.0	65.6								
14				33.5	128.0	65.6								
15				33.8	128.5	66.1								
16				33.8	128.5	66.1								
17				33.2	127.5	65.1								
18				33.2	127.5	65.1								

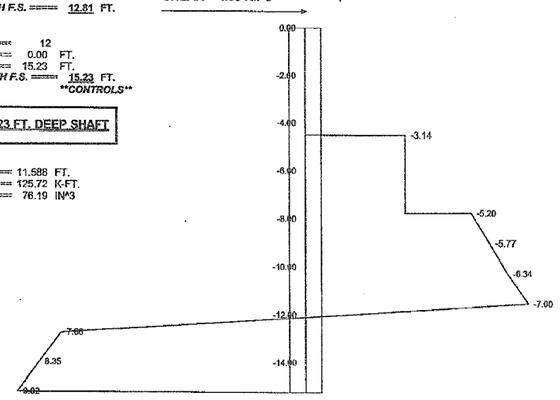
LAYER OF ZERO TORQUE ========== 10
DISTANCE THRU LAYER ========== 0.06 FT.
SUM OF LAYERS ABOVE ========== 12.75 FT.
LENGTH TO RESIST "TORQUE" WITH F.S. ====== 12.81 FT.

LAYER OF ZERO MOMENT ========== 12
DISTANCE THRU LAYER ========== 0.00 FT.
SUM OF LAYERS ABOVE ========== 15.23 FT.
LENGTH TO RESIST "MOMENT" WITH F.S. ====== 15.23 FT.
CONTROLS

USE 36.0 IN. DIAMETER, 15.23 FT. DEEP SHAFT

SHAFT ROTATION DEPTH ========== 11.588 FT.
MAXIMUM MOMENT ========== 125.72 K-FT.
MIN. REQ'D SECT. MODULUS ======= 76.19 IN^3

MOMENT = 102.90 KIPS
SHEAR = 4.39 KIPS



SHAFT SOIL PRESSURE DIAGRAM

4/19/2006 — *BROMS SHAFT FOUNDATION ANALYSIS* — Broms Overturning Torsion Shaft.xls

BROM'S OVERTURNING & TORSION SHAFT ANALYSIS

I.D.O.T. BBS CENTRAL GEOTECHNICAL UNIT — Modified on 9/1/2005

42 foot mast arm

TOTAL MOMENT APPLIED AT TOP OF SHAFT ========== KIP-FT (POSITIVE BEING CLOCKWISE)
TOTAL SHEAR APPLIED AT TOP OF SHAFT ========== KIPS (POSITIVE TO THE RIGHT)
TOTAL TORQUE APPLIED AT TOP OF SHAFT ========== FT-KIPS
DIAMETER OF FOUNDATION SHAFT ========== FT. (WHICH IS A 36 IN. DIAMETER)
DEPTH BELOW SURFACE TO WATERTABLE ========== FT. (MUST BE PLACED BETWEEN SOIL LAYERS)
DEPTH OF FROST/DISTURBED SOIL BELOW SURFACE == FT. (MUST BE PLACED BETWEEN SOIL LAYERS) (FOR TORQUE ANALYSIS)
DEPTH OF NEGLECTED SOIL PRESSURE (1.5xDIA.) ========== FT. (PLACE BETWEEN LAYERS) (FOR COHESIVE LAYERS/MOMENT ANALYSIS)
CRITICAL SURFACE CROSS SLOPE IN A 15' RADIUS ========== DEG. (WHICH IS A -3.01: 1' SLOPE)
FACTOR OF SAFETY FOR OVERTURNING ========== F.S. (REDUCES SOIL SHEAR STRENGTH BY 69.0%)
FACTOR OF SAFETY FOR TWISTING ========== F.S. (REDUCES SKIN FRICTION RESISTING TORQUE BY 11.3%)

	LAYER THICK (FT.)	COHES. INTER. (KSF)	S.P.T. BLOWS (N)	FRICTON ANGLE (DEG)	UNIT WEIGHT (PCF)	BOUYANT UNIT WT. (PCF)	SOIL PRESSURE (K/FT) AT TOP / AT BOT. OF EACH LAYER		SUM SHEAR (KIPS) AT TOP / AT BOT. OF EACH LAYER		SUM MOMENT (KIP-FT) AT TOP / AT BOT. OF EACH LAYER		SUM TORQUE (FT-K.) AT TOP / AT BOT. OF EACH LAYER	
1	3.00			0.0	115.7	115.7	0.000	0.000	4.460	4.460	104.900	118.280	74.700	74.700
2	1.50			0.0	121.5	59.1	0.000	0.000	4.460	4.460	118.280	124.970	74.700	66.427
3				0.0	115.7	53.3	-3.144	-3.144	4.460	2.102	124.970	127.431	66.427	63.842
4				0.0	115.7	53.3	-3.144	-3.144	2.102	-1.827	127.431	127.603	63.842	59.533
5				0.0	115.7	53.3	-3.144	-3.144	-1.827	-5.757	127.603	122.862	59.533	55.224
6				28.1	115.7	53.3	-5.201	-5.770	-5.757	-12.614	122.862	111.454	55.224	44.059
7				28.1	115.7	53.3	-5.770	-6.339	-12.614	-20.175	111.454	91.056	44.059	32.061
8				31.6	124.2	61.8	-6.339	-6.998	-20.175	-28.510	91.056	60.714	32.061	19.155
9				31.6	124.2	61.8	-6.998	7.658	-28.510	-21.442	60.714	28.225	19.155	5.307
10				32.9	126.9	64.5	7.658	8.346	-21.442	-11.439	28.225	7.585	5.307	-9.468
11				32.9	126.9	64.5	8.346	9.035	-11.439	-0.575	7.585	-0.013		
12				33.5	128.0	65.6	9.035	9.071	-0.575	0.000	-0.013	-0.032		
13				33.5	128.0	65.6								
14				33.5	128.0	65.6								
15				33.8	128.5	66.1								
16				33.8	128.5	66.1								
17				33.2	127.5	65.1								
18				33.2	127.5	65.1								

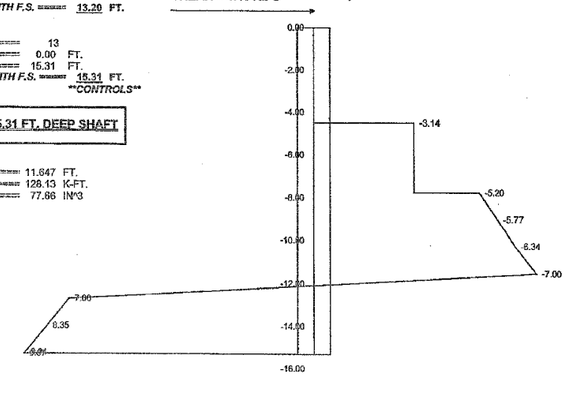
LAYER OF ZERO TORQUE ========== 10
DISTANCE THRU LAYER ========== 0.45 FT.
SUM OF LAYERS ABOVE ========== 12.75 FT.
LENGTH TO RESIST "TORQUE" WITH F.S. ====== 13.20 FT.

LAYER OF ZERO MOMENT ========== 13
DISTANCE THRU LAYER ========== 0.00 FT.
SUM OF LAYERS ABOVE ========== 15.31 FT.
LENGTH TO RESIST "MOMENT" WITH F.S. ====== 15.31 FT.
CONTROLS

USE 36.0 IN. DIAMETER, 15.31 FT. DEEP SHAFT

SHAFT ROTATION DEPTH ========== 11.647 FT.
MAXIMUM MOMENT ========== 128.13 K-FT.
MIN. REQ'D SECT. MODULUS ======= 77.66 IN^3

MOMENT = 104.90 KIPS
SHEAR = 4.46 KIPS



SHAFT SOIL PRESSURE DIAGRAM

4/19/2006 — *BROMS SHAFT FOUNDATION ANALYSIS* — Broms Overturning Torsion Shaft.xls

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CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•754	101M&TS	BOONE	95	50
STA. __________	TO STA.__________			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

•(IL76)

SHAFT ANALYSIS

BROM'S OVERTURNING & TORSION SHAFT ANALYSIS

I.D.O.T. BBS CENTRAL GEOTECHNICAL UNIT — Modified on 9/1/2005

55 foot mast arm

TOTAL MOMENT APPLIED AT TOP OF SHAFT ========== [illegible] KIP-FT (POSITIVE BEING CLOCKWISE)
TOTAL SHEAR APPLIED AT TOP OF SHAFT ============ [illegible] KIPS (POSITIVE TO THE RIGHT)
TOTAL TORQUE APPLIED AT TOP OF SHAFT ========== [illegible] FT-KIPS
DIAMETER OF FOUNDATION SHAFT ================= [illegible] FT. (WHICH IS A 36 IN. DIAMETER)
DEPTH BELOW SURFACE TO WATERTABLE =========== [illegible] FT. (MUST BE PLACED BETWEEN SOIL LAYERS)
DEPTH OF FROST/DISTURBED SOIL BELOW SURFACE == [illegible] FT. (MUST BE PLACED BETWEEN SOIL LAYERS) (FOR TORQUE ANALYSIS)
DEPTH OF NEGLECTED SOIL PRESSURE (1.5xDIA.) ==== [illegible] FT. (PLACE BETWEEN LAYERS) (FOR COHESIVE LAYERS/MOMENT ANALYSIS)
CRITICAL SURFACE CROSS SLOPE IN A 15' RADIUS ==== [illegible] DEG. (WHICH IS A -3.01': 1' SLOPE)
FACTOR OF SAFETY FOR OVERTURNING ============= [illegible] F.S. (REDUCES SOIL SHEAR STRENGTH BY 69.0%)
FACTOR OF SAFETY FOR TWISTING =============== [illegible] F.S. (REDUCES SKIN FRICTION RESISTING TORQUE BY 11.3%)

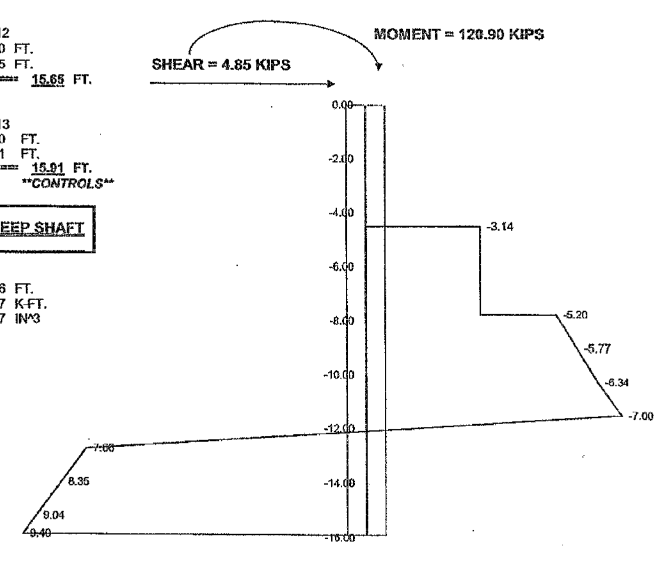
	LAYER THICK (FT.)	COHES. INTER. (KSF)	S.P.T. BLOWS (N)	FRICTON ANGLE (DEG)	UNIT WEIGHT (PCF)	BOUYANT UNIT WT. (PCF)	SOIL PRESSURE (K/FT) AT TOP OF EACH LAYER	SOIL PRESSURE (K/FT) AT BOT. OF EACH LAYER	SUM SHEAR (KIPS) AT TOP OF EACH LAYER	SUM SHEAR (KIPS) AT BOT. OF EACH LAYER	SUM MOMENT (KIP-FT) AT TOP OF EACH LAYER	SUM MOMENT (KIP-FT) AT BOT. OF EACH LAYER	SUM TORQUE (FT-K.) AT TOP OF EACH LAYER	SUM TORQUE (FT-K.) AT BOT. OF EACH LAYER
1	3.00	[illegible]	[illegible]	0.0	115.7	115.7	0.000	0.000	4.850	4.850	120.900	135.450	105.100	105.100
2	1.50	[illegible]	[illegible]	0.0	121.5	59.1	0.000	0.000	4.850	4.850	135.450	142.725	105.100	96.827
3	[illegible]	[illegible]	[illegible]	0.0	115.7	53.3	-3.144	-3.144	4.850	2.492	142.725	145.478	96.827	94.242
4	[illegible]	[illegible]	[illegible]	0.0	115.7	53.3	-3.144	-3.144	2.492	-1.437	145.478	146.138	94.242	89.933
5	[illegible]	[illegible]	[illegible]	0.0	115.7	53.3	-3.144	-3.144	-1.437	-5.367	146.138	141.885	89.933	85.624
6	[illegible]	[illegible]	[illegible]	28.1	115.7	53.3	-5.201	-5.770	-5.367	-12.224	141.885	130.964	85.624	74.459
7	[illegible]	[illegible]	[illegible]	28.1	115.7	53.3	-5.770	-6.339	-12.224	-19.785	130.964	111.053	74.459	62.461
8	[illegible]	[illegible]	[illegible]	31.6	124.2	61.8	-6.339	-6.998	-19.785	-28.120	111.053	81.198	62.461	49.555
9	[illegible]	[illegible]	[illegible]	31.6	124.2	61.8	-6.998	7.658	-28.120	-26.929	81.198	43.917	49.555	35.707
10	[illegible]	[illegible]	[illegible]	32.9	126.9	64.5	7.658	8.346	-26.929	-16.926	43.917	16.417	35.707	20.932
11	[illegible]	[illegible]	[illegible]	32.9	126.9	64.5	8.346	9.035	-16.926	-6.063	16.417	1.960	20.932	5.246
12	[illegible]	[illegible]	[illegible]	33.5	128.0	65.6	9.035	9.404	-6.063	0.000	1.960	-0.047	5.246	-3.361
13	[illegible]	[illegible]	[illegible]	33.5	128.0	65.6								
14	[illegible]	[illegible]	[illegible]	33.5	128.0	65.6								
15	[illegible]	[illegible]	[illegible]	33.8	128.5	66.1								
16	[illegible]	[illegible]	[illegible]	33.8	128.5	66.1								
17	[illegible]	[illegible]	[illegible]	33.2	127.5	65.1								
18	[illegible]	[illegible]	[illegible]	33.2	127.5	65.1								

LAYER OF ZERO TORQUE ======== 12
DISTANCE THRU LAYER ========= 0.40 FT.
SUM OF LAYERS ABOVE ========= 15.25 FT.
LENGTH TO RESIST "TORQUE" WITH F.S. ===== 15.65 FT.

LAYER OF ZERO MOMENT ======== 13
DISTANCE THRU LAYER ========= 0.00 FT.
SUM OF LAYERS ABOVE ========= 15.91 FT.
LENGTH TO RESIST "MOMENT" WITH F.S. ==== 15.91 FT.
*****CONTROLS*****

USE 36.0 IN. DIAMETER, 15.91 FT. DEEP SHAFT

SHAFT ROTATION DEPTH ======== 12.056 FT.
MAXIMUM MOMENT ============= 146.47 K-FT.
MIN. REQ'D SECT. MODULUS ===== 88.77 IN^3



SHAFT SOIL PRESSURE DIAGRAM

4/19/2006 — *BROMS SHAFT FOUNDATION ANALYSIS* — Broms Overturning Torsion Shaft.xls

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STORM WATER POLLUTION PREVENTION PLAN
EROSION CONTROL PLAN

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN ITEMS, AS SHOWN IN THIS PLAN AND REFERENCED BY THE LEGEND, SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME: THEREFORE, REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE SIZE OF THE PROPOSED DITCH CHECKS, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THE PLANS. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SITE DESCRIPTION
DESCRIPTION OF CONSTRUCTION ACTIVITY:

THIS PROJECT CONSISTS OF INTERSECTION IMPROVEMENTS AT IL 76 AND SQUAW PRAIRIE ROAD, 1 MILE NORTH OF US 20 BYPASS IN BELVIDERE.

DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:
THE SEQUENCE OF EVENTS ARE AS FOLLOW: CLEARING, EMBANKMENT, EXCAVATION, GRADING AND PAVING.
THIS PROJECT WILL BE CONSTRUCTED IN SEGMENTS AS SHOWN IN THE "STAGING PLANS".

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 8.28 ACRES

PROPOSED R.O.W (TOTAL PARCEL AREA) 2.92 ACRES

DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 5.05 ACRES

SUPPORTING REPORTS AND PLANS
THE FOLLOWING ASSISTED IN DEVELOPING THE EROSION CONTROL PLAN AS REFERENCED DOCUMENTS:

SOIL PROFILE SHEETS, SOILS REPORTS, BORING LOGS
USGS DRAINAGE MAPS, PROJECT PLAN DOCUMENTS

DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE

KISHWAUKEE RIVER

EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES
STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:
PERIMETER EROSION CONTROL SHALL BE PLACED PRIOR TO BEGINNING EARTHWORK.

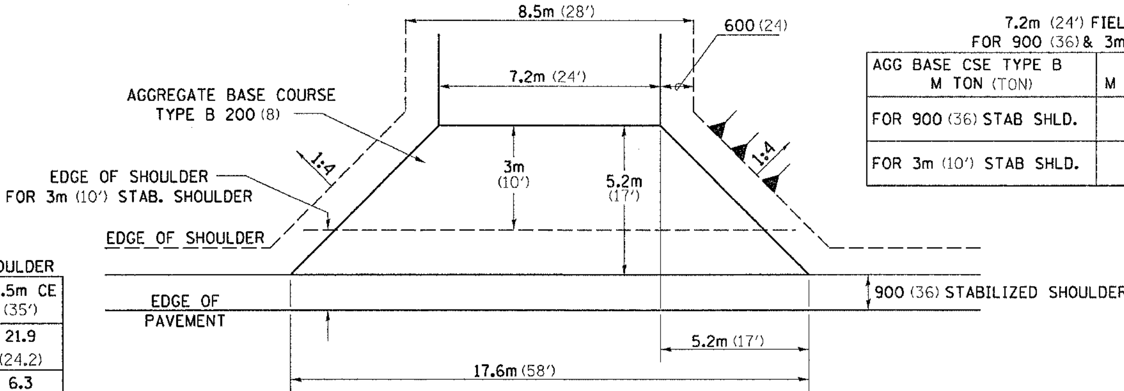
STABILIZATION PRACTICES DURING CONSTRUCTION:
AS EARTH EXCAVATION AND EMBANKMENT ARE BEING COMPLETED THE CONTRACTOR SHALL PLACE DITCH CHECKS, INLET AND PIPE PROTECTION, EROSION CONTROL BLANKET, AND SEEDING AS STAGES OF THE PROJECT ARE COMPLETED. PERIMETER EROSION BARRIER WILL BE INSTALLED AT ADDITIONAL LOCATIONS AS THE PROJECT PROGRESSES. SEEDING SHALL BE COMPLETED AS SPECIFIED IN THE EROSION CONTROL/ SEEDING MOBILIZATION AND TEMPORARY SEEDING SPECIAL PROVISION.

MAINTENANCE AFTER FINAL GRADING
TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH THE PROPER STAND. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP AND DISTURBED TURF RESEEDED.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•754	101M&TS	BOONE	95	52

CONTRACT NO. 64B81
STA. TO STA.
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
•(IL 76)

HOT-MIX ASPHALT APPROACHES & MAILBOX TURNOUTS



FIELD ENTRANCE

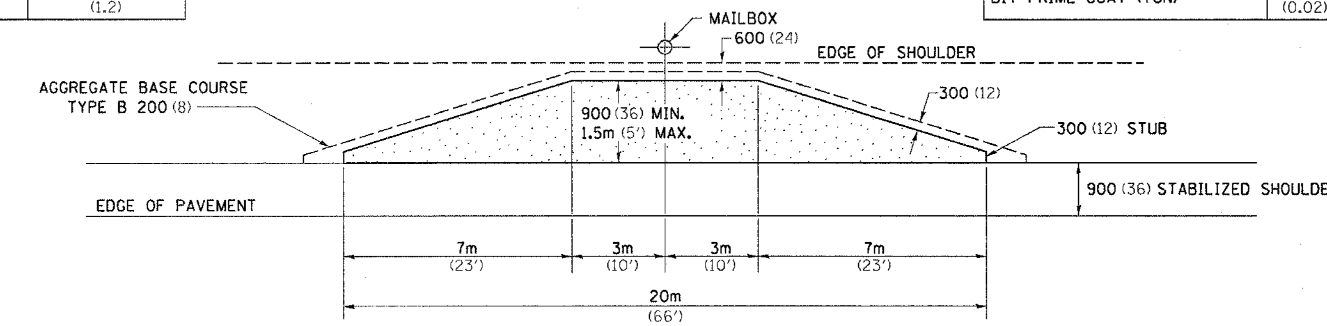
7.2m (24') FIELD ENTRANCE
FOR 900 (36) & 3m (10') SHOULDERS

AGG BASE CSE TYPE B M TON (TON)	APRON M TON (TON)	PER METER (FOOT) ADD. RUN
FOR 900 (36) STAB SHLD.	31.3 (35.3)	3.5 (1.2)
FOR 3m (10') STAB SHLD.	14.9 (17.2)	3.5 (1.2)

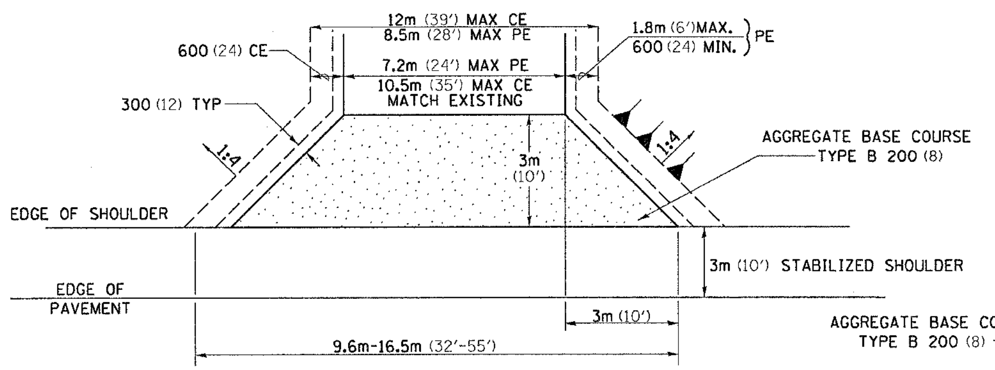
	900 (36)	1.5m (5')
AGG BASE CSE T-B (TON)	10.7 (11.8)	14.4 (15.9)
INC BIT SURF 50 (2) (TON)	2.2 (2.4)	3.4 (3.8)
BIT PRIME COAT (TON)	0.02 (0.02)	0.04 (0.04)

PE & CE FOR 3m (10') STAB. SHOULDER

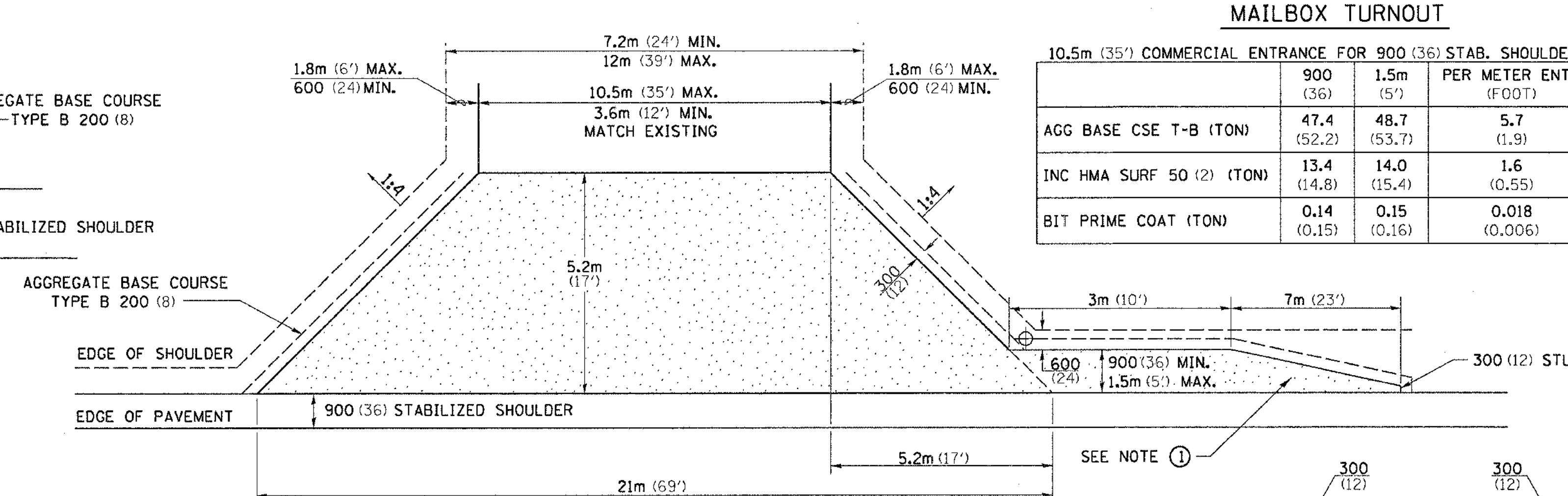
	3.6m PE (12')	10.5m CE (35')
AGG BASE CSE (TON)	11.4 (12.6)	21.9 (24.2)
INC HMA SURF (TON)	3.1 (3.4)	6.3 (7.0)
PRIME (TON)	0.04 (0.04)	0.06 (0.07)



MAILBOX TURNOUT



PE & CE FOR 3m (10') STAB. SHOULDERS



CE FOR 900 (36) STAB. SHOULDERS

10.5m (35') COMMERCIAL ENTRANCE FOR 900 (36) STAB. SHOULDER

	900 (36)	1.5m (5')	PER METER ENTR (FOOT)
AGG BASE CSE T-B (TON)	47.4 (52.2)	48.7 (53.7)	5.7 (1.9)
INC HMA SURF 50 (2) (TON)	13.4 (14.8)	14.0 (15.4)	1.6 (0.55)
BIT PRIME COAT (TON)	0.14 (0.15)	0.15 (0.16)	0.018 (0.006)

NOTE

① ALL ENTRANCES TO BE CONSTRUCTED WITH AN 8" AGGREGATE BASE COURSE, TYPE B AND WITH A 2" INCIDENTAL HOT-MIX ASPHALT SURFACING, UNLESS OTHERWISE NOTED.

② TURNOUTS ARE TO BE CONSTRUCTED ON THE APPROACH SIDE OF ALL PE & CE REGARDLESS IF A MAILBOX IS PRESENT.

③ ALL PE & CE ARE TO BE SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.

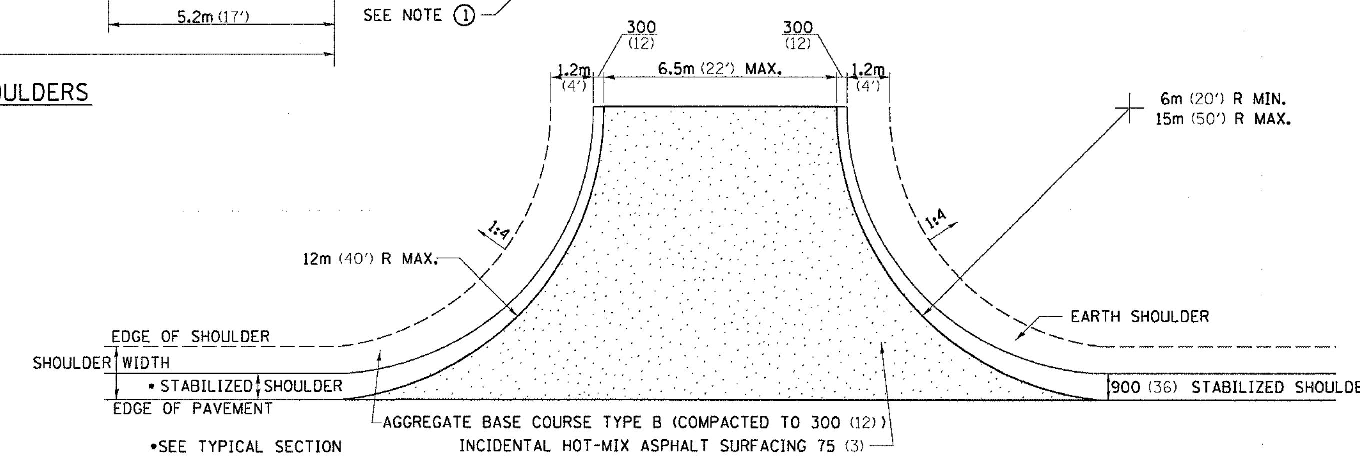
④ FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN WHICH EVER IS GREATER.

⑤ QUANTITIES SHOWN ARE FOR NEW CONSTRUCTION.

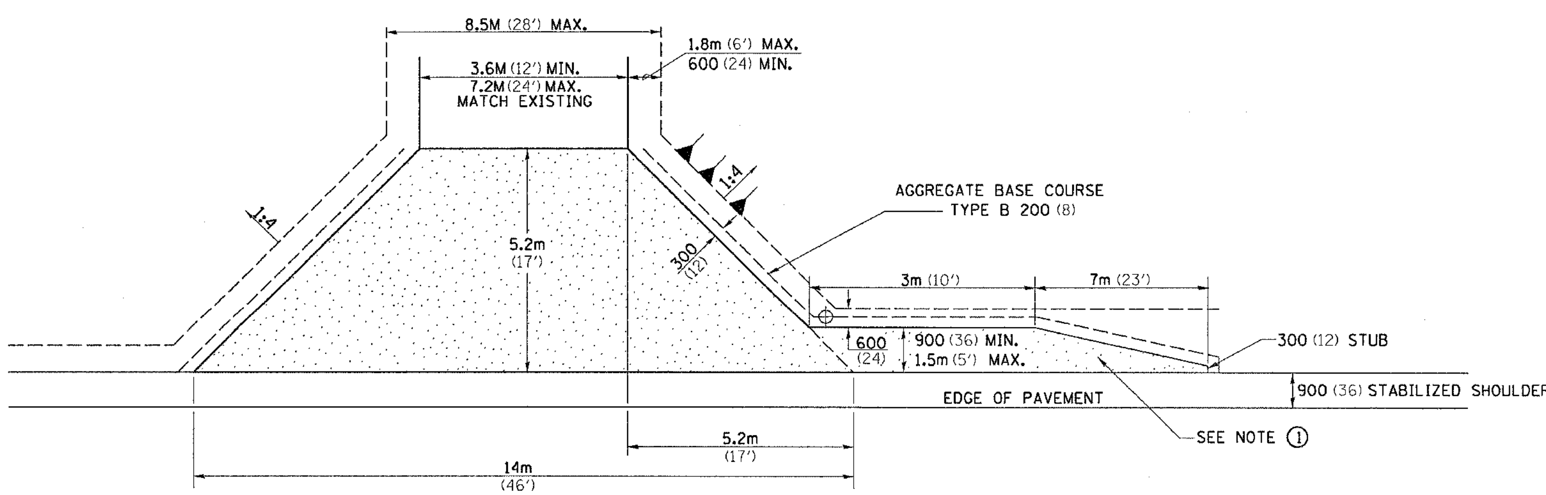
⑥ ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

3.6m (12') PRIVATE ENTRANCE FOR 900 (36) STAB. SHOULDER

	900 (36)	1.5m (5')	PER METER ENTR (FOOT)
AGG BASE CSE (TON)	29.4 (32.4)	30.8 (33.9)	0.64 (0.7)
INC HMA SURF 50 (2) (TON)	7.8 (8.6)	8.4 (9.3)	0.17 (0.19)
BIT PRIME COAT (TON)	0.08 (0.09)	0.09 (0.10)	0.006 (0.002)



SIDE ROAD RETURN



PRIVATE ENTRANCE FOR 900 (36) STAB. SHOULDERS

	6m (20') RADIUS			9m (30') RADIUS			12m (40') RADIUS		
	5.5m (18')	6m (20')	6.5m (22')	5.5m (18')	6m (20')	6.5m (22')	5.5m (18')	6m (20')	6.5m (22')
AGG BASE CSE T-B (TON)	20 (22.1)	21.6 (23.8)	23.1 (25.5)	37 (40.8)	39.5 (43.5)	42 (46.3)	57.9 (63.8)	61.3 (67.6)	64.7 (71.3)
INC HMA SURF 75 (3) (TON)	5.5 (6.1)	6.2 (6.8)	6.6 (7.25)	10.5 (11.6)	11.2 (12.4)	12.1 (13.3)	16.7 (18.4)	17.7 (19.5)	18.7 (20.6)
BIT PRIME CSE T-B (TON)	0.05 (0.06)	0.06 (0.07)	0.06 (0.07)	0.11 (0.12)	0.11 (0.12)	0.12 (0.13)	0.16 (0.18)	0.18 (0.20)	0.19 (0.21)

NOTE: USE 50 (2) INC. HMA SURF. ON EXISTING RETURNS

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REVISED 10-10-06

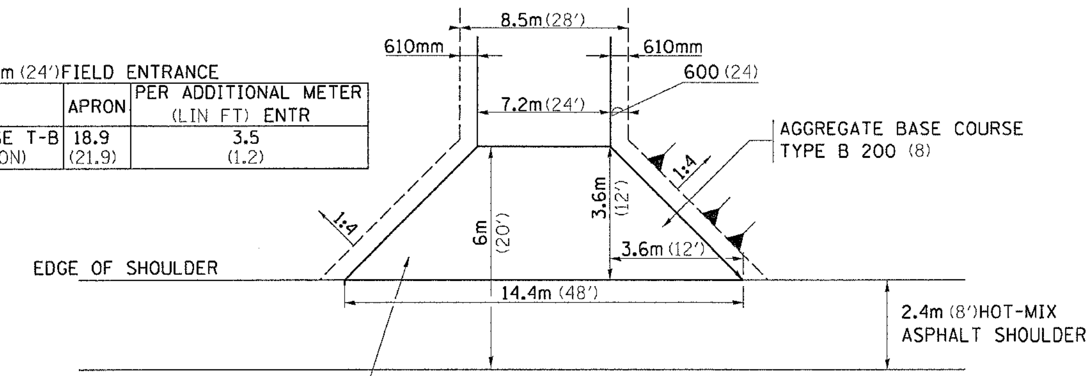
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	53
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*(IL 76)

ENTRANCE AND SIDEROADS WITH 2.4m (8′) HOT-MIX ASPHALT SHOULDERS

7.2m (24′) FIELD ENTRANCE

	APRON	PER ADDITIONAL METER (LIN FT) ENTR
AGG BASE CSE T-B M TON (TON)	18.9 (21.9)	3.5 (1.2)

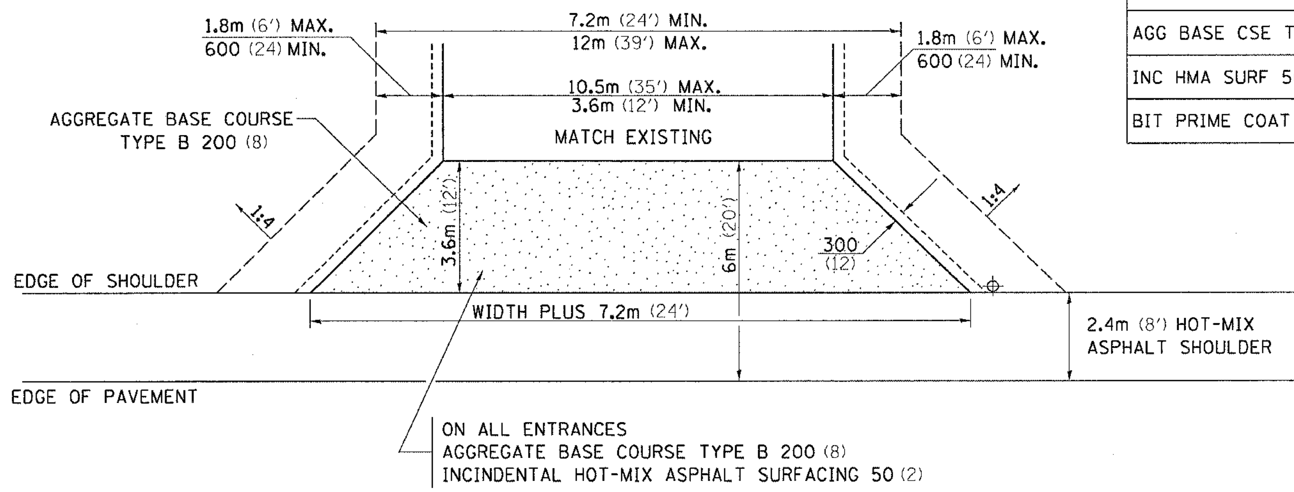


FIELD ENTRANCE

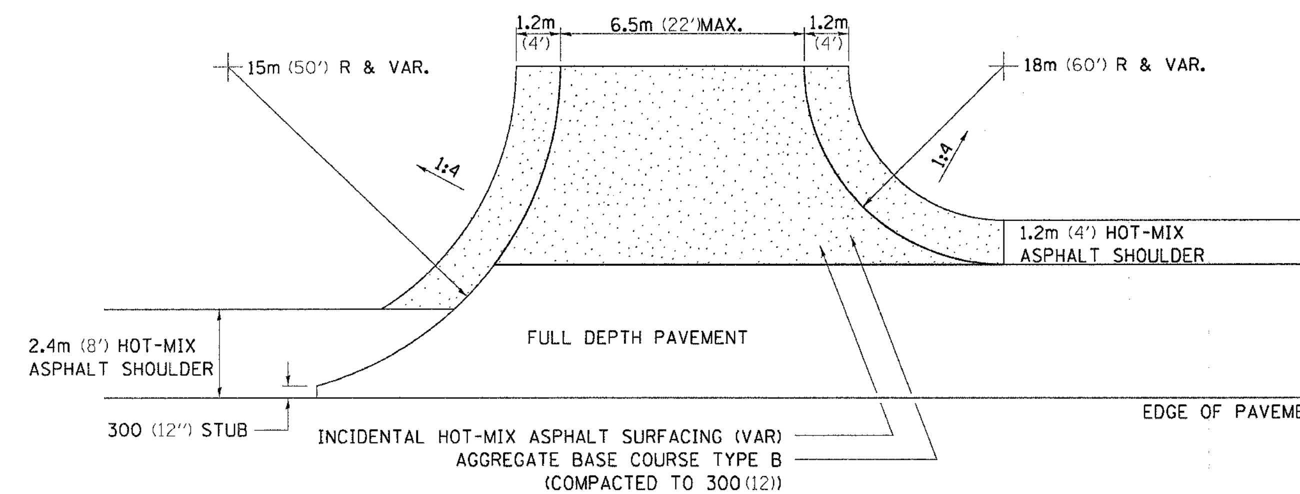
NOTE

1. ALL PE & CE ARE TO BE INCIDENTAL HOT-MIX ASPHALT SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
2. FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN, WHICH EVER IS GREATEST.
3. QUANTITIES ARE CALCULATED WITH 2.4m HOT-MIX ASPHALT SHOULDER IN PLACE. AGGREGATE QUANTITIES SHOWN ARE FOR NEW CONSTRUCTION.
4. EXCAVATION REQUIRED FOR PLACEMENT OF AGGREGATE BASE COURSE SHALL BE CONSIDERED INCIDENTAL TO THE AGGREGATE BASE COURSE.
5. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

COMMERICAL ENTRANCE			PER METER ENTR (FOOT)	
	3.6m (12′)	10.5m (35′)	3.6m (12′)	10.5m (35′)
AGG BASE CSE T-B (TON)	14.3 (15.8)	27.0 (29.8)	0.64 (0.70)	1.70 (1.87)
INC HMA SURF 50 (2) (TON)	3.3 (3.6)	6.35 (7.0)	0.14 (0.15)	0.40 (0.44)
BIT PRIME COAT (TON)	0.042 (0.046)	0.082 (0.090)	0.002 (0.002)	0.005 (0.006)



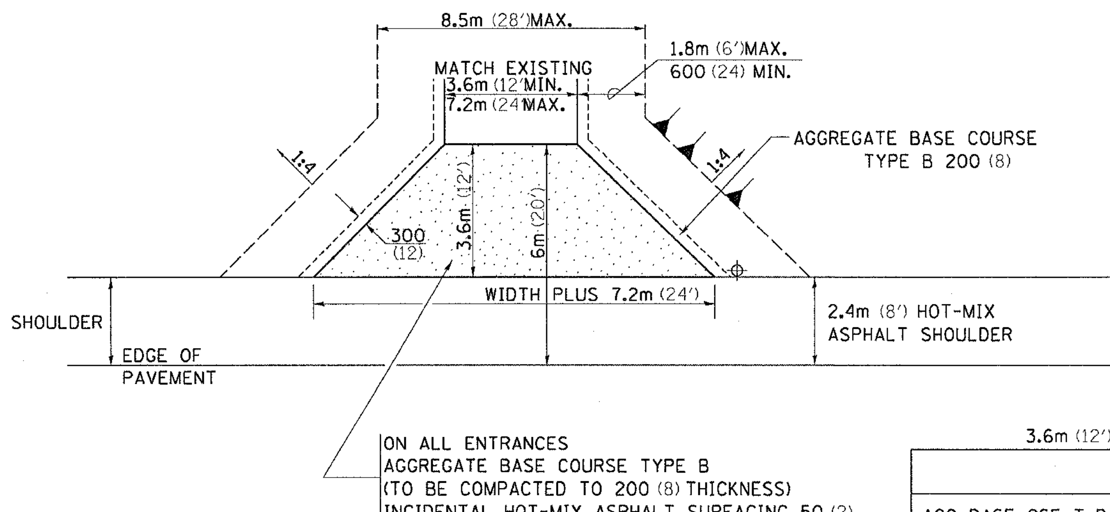
COMMERCIAL ENTRANCE



SIDE ROAD RETURN

	6m RADIUS (20′)			9m RADIUS (30′)			12m RADIUS (40′)		
AGG BASE CSE T-B (TON)									
INC HMA SURF AT 25 (1) (TON)									
BIT PRIME COAT (TON)									

NOTE: USE 50 (2) INC. HMA SURF. ON EXISTING RETURNS



PRIVATE ENTRANCE

3.6m (12′) PRIVATE ENTRANCE			PER METER ENTR (FOOT)	
	3.6m (12′)	7.2m (24′)	3.6m (12′)	7.2m (24′)
AGG BASE CSE T-B (TON)	14.3 (15.8)	21.0 (23.1)	0.64 (0.70)	1.20 (1.32)
INC HMA SURF 50 (2) (TON)	3.3 (3.6)	4.9 (5.4)	0.14 (0.15)	0.27 (0.30)
BIT PRIME COAT (TON)	0.042 (0.046)	0.063 (0.069)	0.002 (0.002)	0.004 (0.004)

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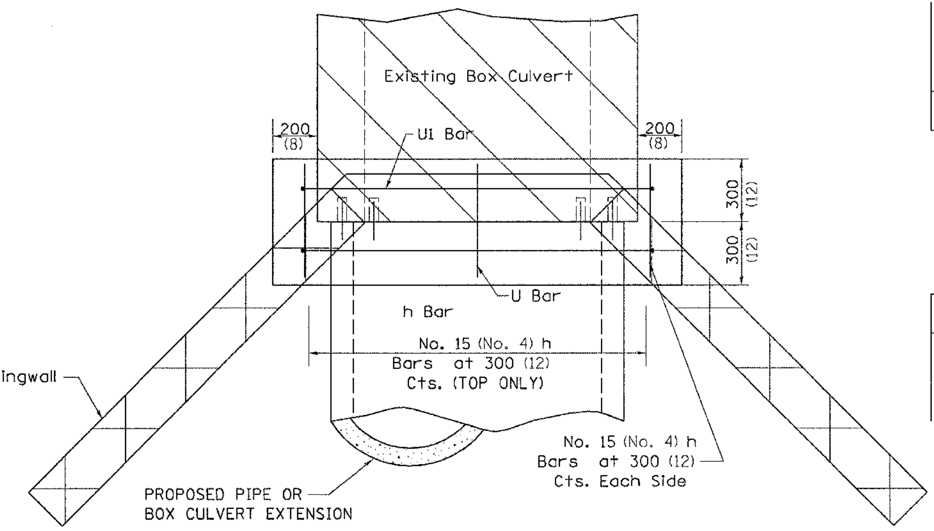
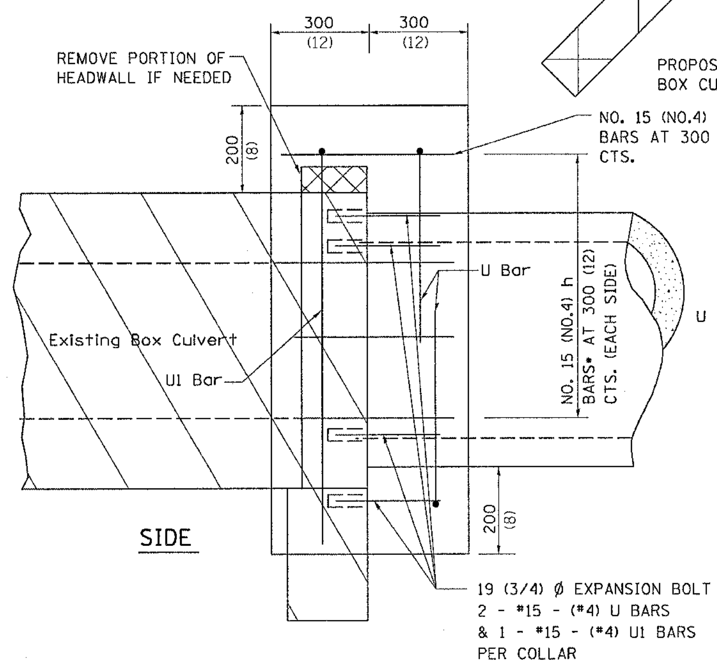
REVISED 10-10-06

CONCRETE COLLARS FOR PIPE OR BOX CULVERT EXTENSIONS



PLAN OF CULVERT WITH ANGLED WING WALLS



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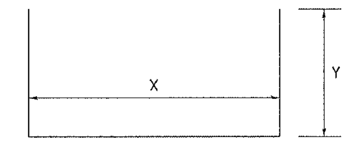

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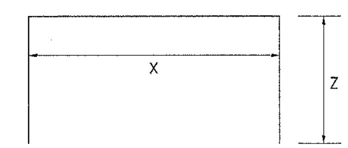
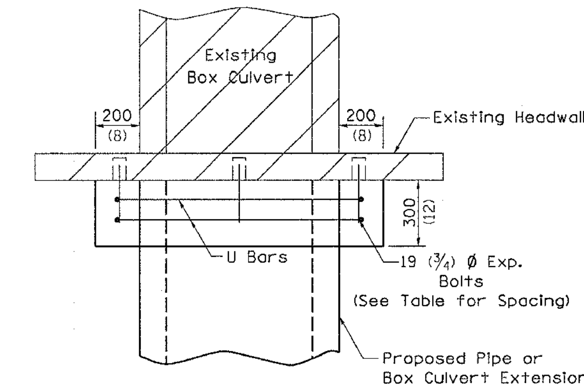
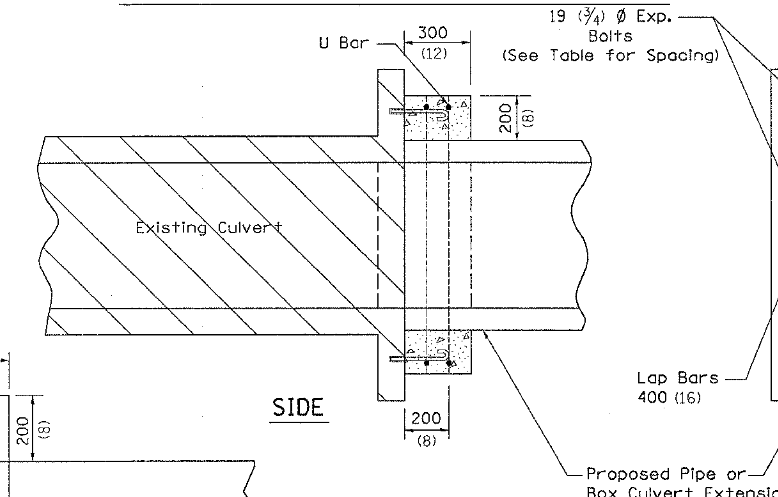


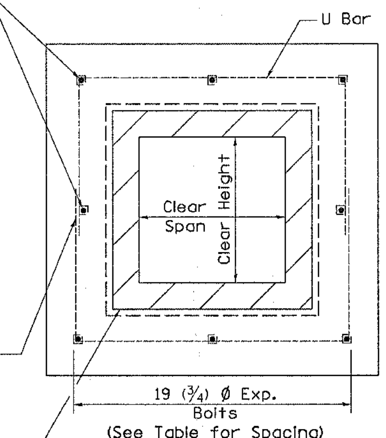
(#4) U1 BAR



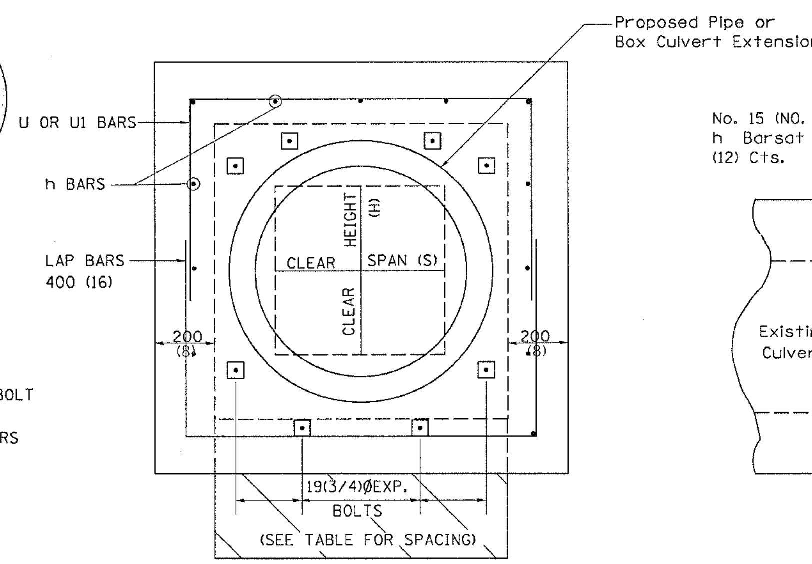
PLAN OF CULVERT WITH STRAIGHT HEADWALL



SIDE



FRONT



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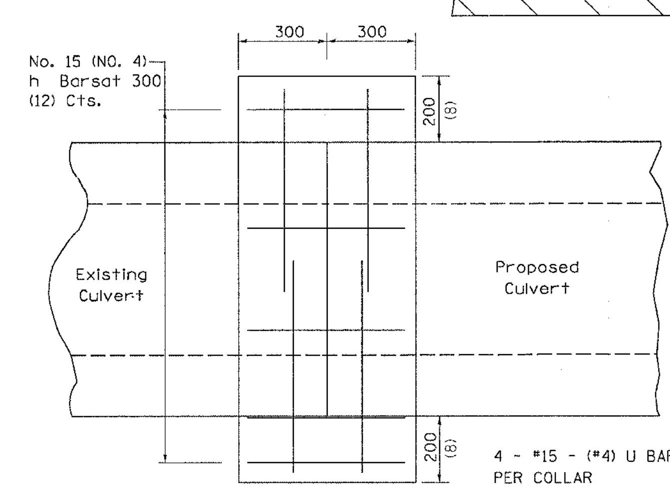


CULVERT CONNECTION WITHOUT EXISTING HEADWALL

PLACEMENT DETAILS FOR EXPANSION BOLTS

H OR S	NUMBER OF EXPANSION BOLTS REQUIRED PER SIDE			
	EXTENSIONS < 4.57m (15')		EXTENSIONS > 4.57m (15')	
	NUMBER	SPACING	NUMBER	SPACING
600 (24)	*		*	
750 (30)	2	450 (18)	2	450 (18)
900 (36)	2	600 (24)	2	600 (24)
1200 (48)	3	450 (18)	3	450 (18)
1500 (60)	4	400 (16)	3	600 (24)
1800 (72)	5	375 (15)	4	500 (20)
2100 (84)	5	450 (18)	4	600 (24)
2400 (96)	6	375 (15)	5	525 (21)
2700 (108)	6	475 (19)	5	600 (24)
3000 (120)	7	450 (18)	6	525 (21)
3300 (132)	8	425 (17)	6	600 (24)
3600 (144)	8	475 (19)	7	550 (22)

* MINIMUM ONE PER SIDE

Bill of Materials

	DIMENSIONS		h Bar	U Bar		EXPANSION BOLTS	CONCRETE COLLAR	REINF. BARS
STATION	X	Y	No.	No.	Length	No.	Cu. Yd	LBS
LT 238+00.8	5.17 FEET	2.58 FEET	11	3	28.83'	-	1.15	20
RT 238+00.8	5.17 FEET	2.58 FEET	11	3	28.83'	-	1.15	20
All h Bars 450 (18) Long					Total	-	2.3	40

General Notes

Concrete Collars shall be constructed of Class SI Concrete in accordance with Section 503 of the Standard Specifications

Reinforcement bars shall conform to Section 508 of the Standard Specifications.

The concrete will be paid for at the contract unit price per cubic meter (cubic yard) for CONCRETE COLLAR. Reinforcement will be paid for at the contract unit price per kilogram (pound) for REINFORCEMENT BARS. Expansion Bolts, when required, will be paid for at the contract unit price each for EXPANSION BOLTS of the size indicated, which price shall include furnishing, drilling holes, and installing the expansion bolts complete in place. These bolts shall extend at least 200 (8 inches) into the new concrete.

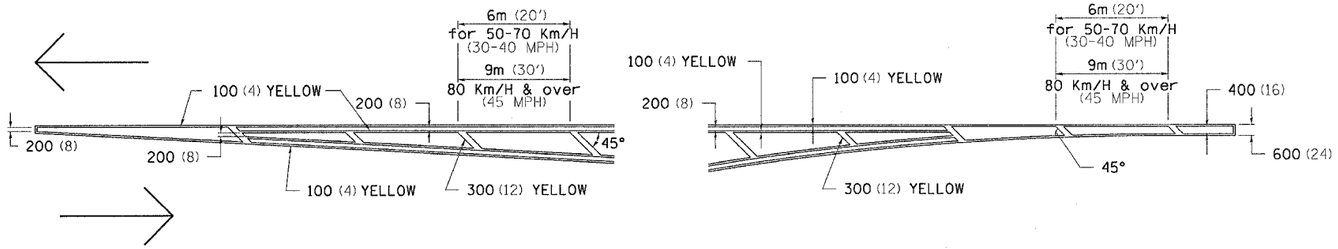
CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	55
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

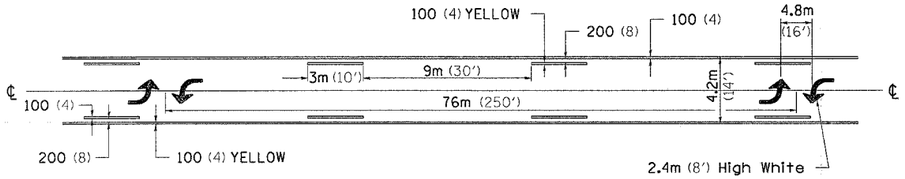
*(IL 76)

TYPICAL PAVEMENT MARKINGS

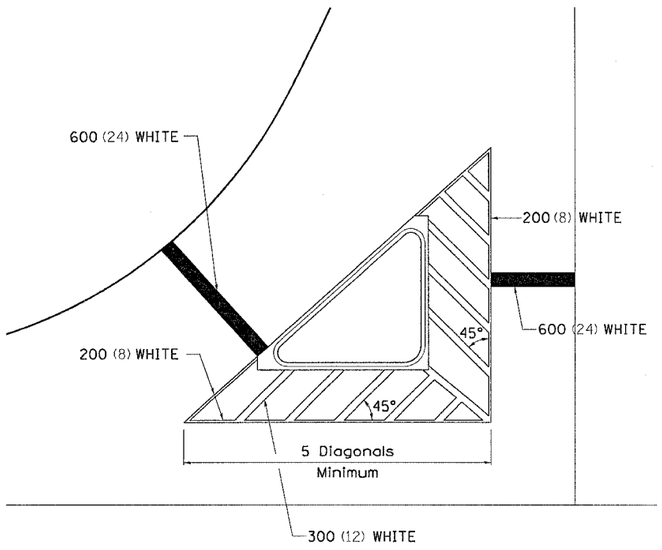
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE



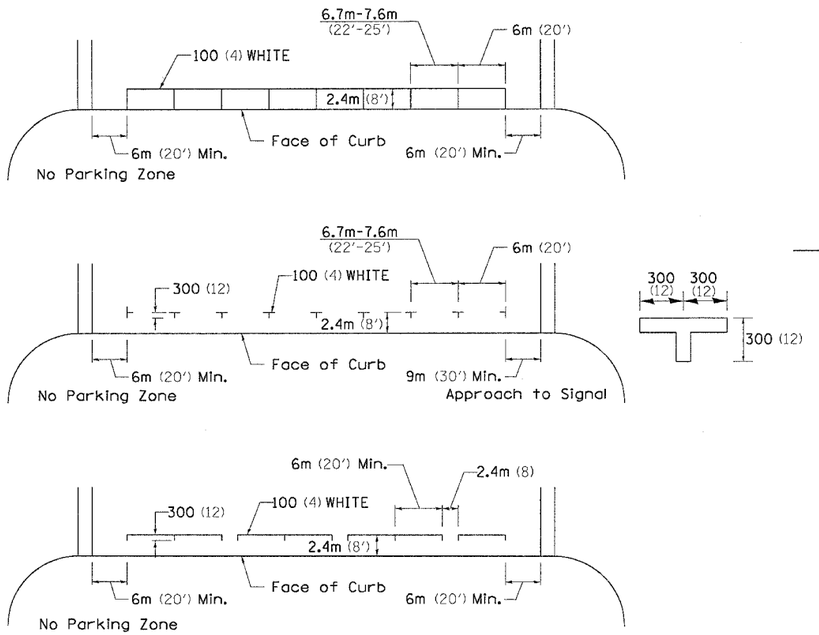
MEDIAN PAVEMENT MARKING



TYPICAL ISLAND OFFSET SHOULDER WIDTH



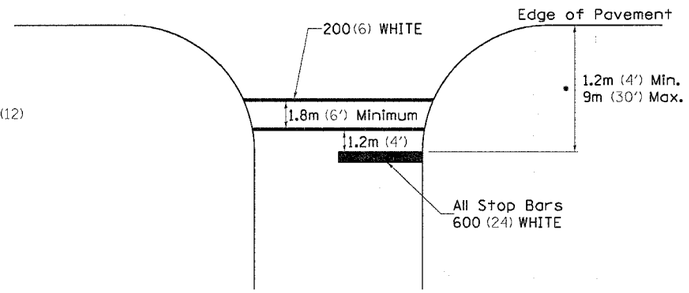
TYPICAL PARKING SPACING



** ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

STANDARD CROSSWALK MARKING

See Schedules for Locations



• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

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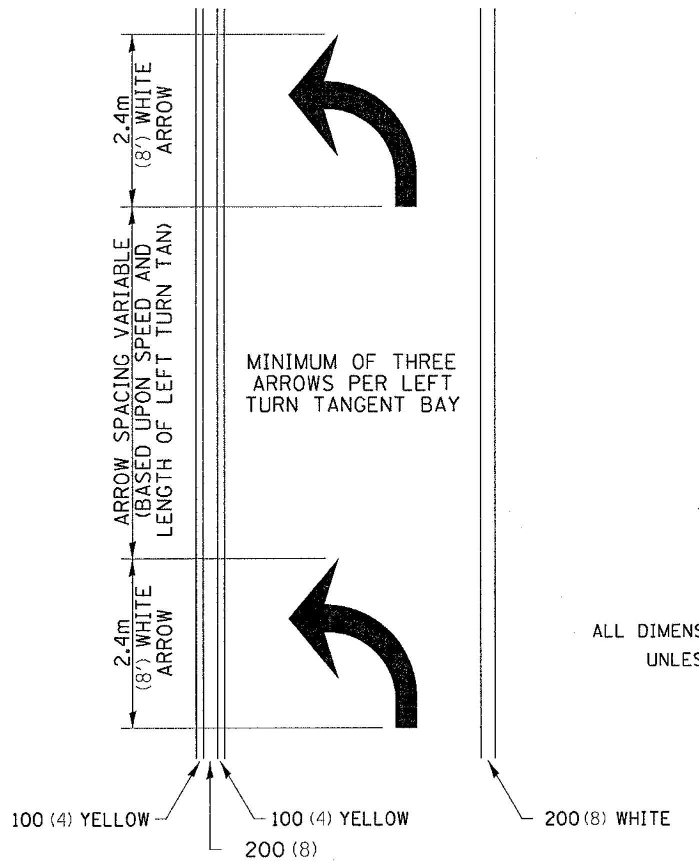
REVISED 7-20-06

CONTRACT NO. 64B81				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	56
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*(IL 76)

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT

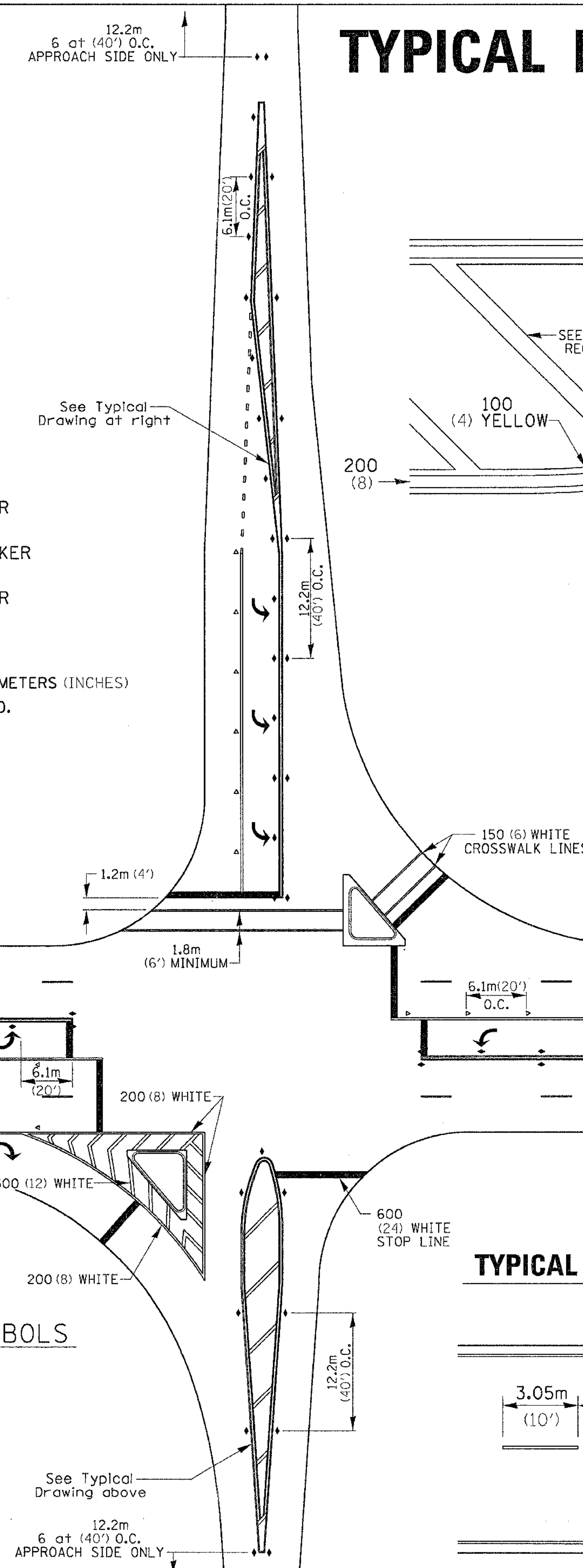


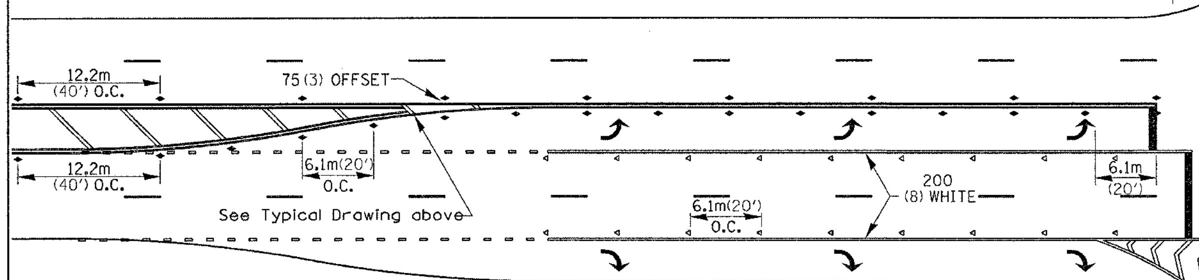
◀ ONE-WAY AMBER MARKER

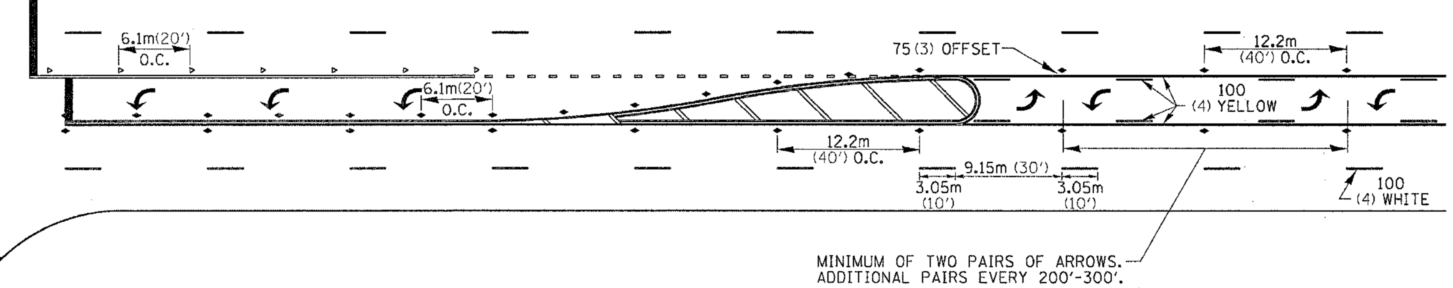
◁ ONE-WAY CRYSTAL MARKER

◆ TWO-WAY AMBER MARKER

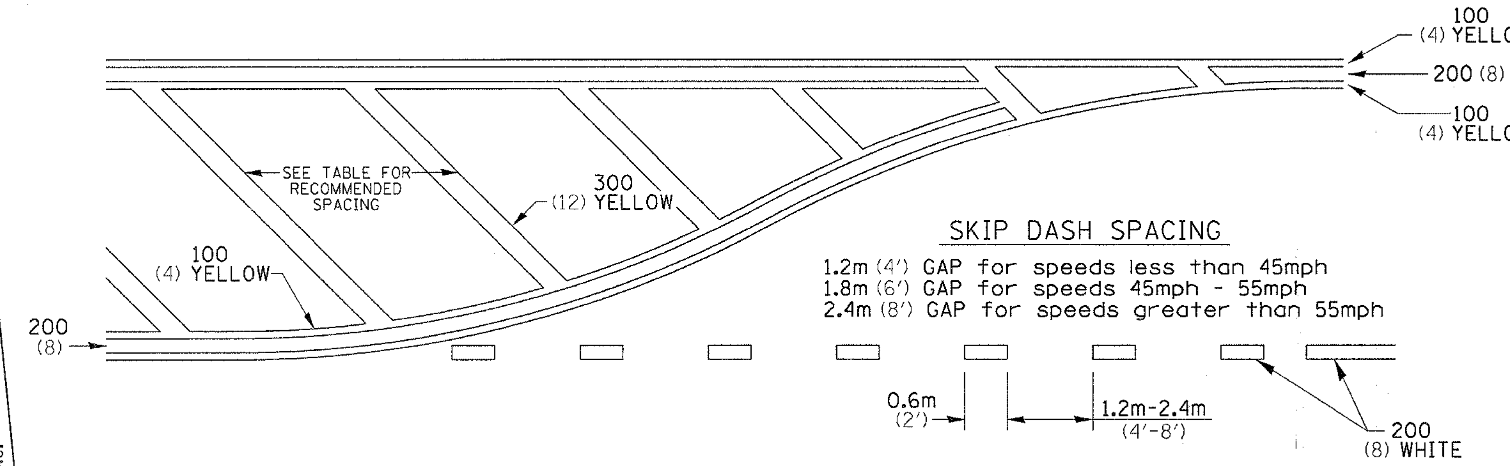
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.







TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



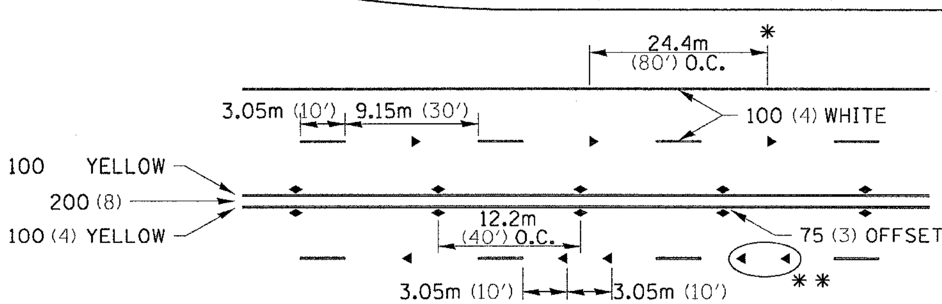
SKIP DASH SPACING

1.2m (4') GAP for speeds less than 45mph
1.8m (6') GAP for speeds 45mph - 55mph
2.4m (8') GAP for speeds greater than 55mph

RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.

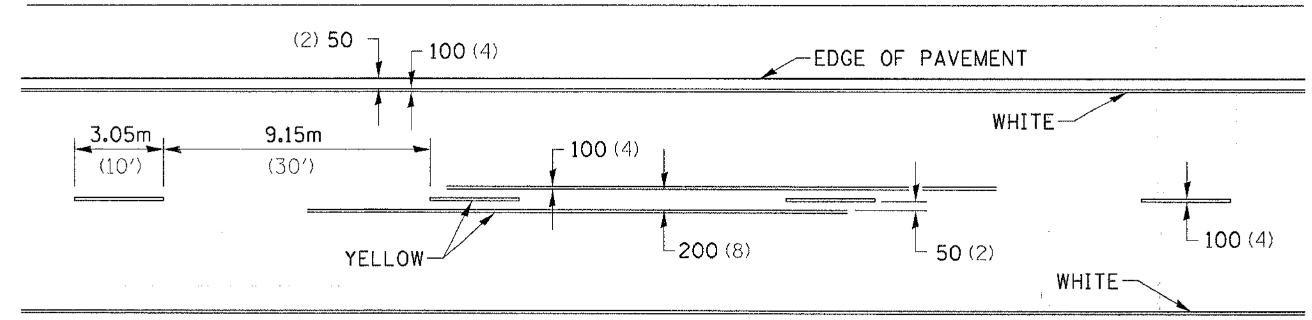


SYMBOLS

* REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.
** USE DOUBLE MARKERS WHEN ADT ≥ 25,000

MULTI-LANE / UNDIVIDED

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



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REVISED 7-20-06

CONTRACT NO. 64B81

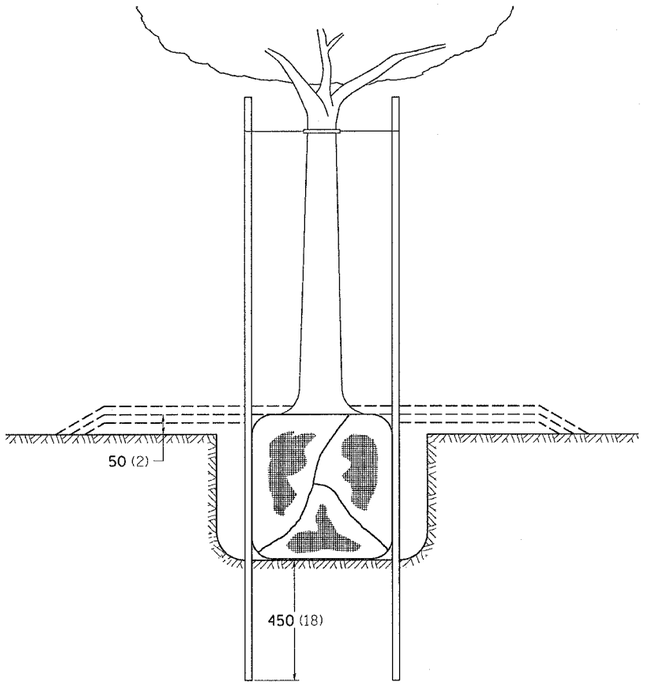
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	57
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*(IL 76)

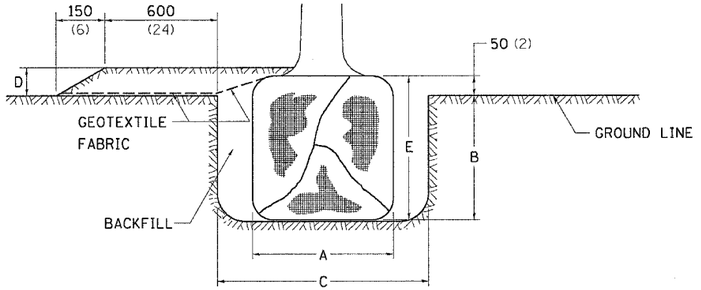
DETAILS OF PLANTING AND BRACING TREES

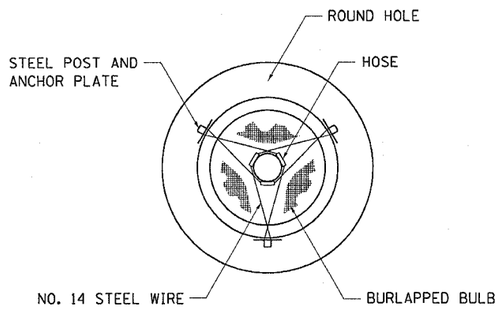
SMALL TREE SIZE	A DIAMETER OF BALL OR ROOT SYS.	B DEPTH OF HOLE EXCAVATION	C WIDTH OF HOLE EXCAVATION	D THICKNESS OF MULCH COVER	E DEPTH OF BALL OR ROOT SYS.	F VOLUME OF MULCH COVER m^3 (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.8-2.0m (6'-7') BB	450 (18)	300 (12)	750 (30)	100 (4)	350 (14)	0.41 (0.54)
2.0-2.4m (7'-8') BB	500 (20)	275 (11)	750 (30)	100 (4)	325 (13)	0.41 (0.54)
2.4-3.0m (8'-10') BB	600 (24)	350 (14)	900 (36)	100 (4)	400 (16)	0.47 (0.61)
3.0-3.6m (10'-12') BB	650 (26)	375 (15)	900 (36)	100 (4)	425 (17)	0.47 (0.61)

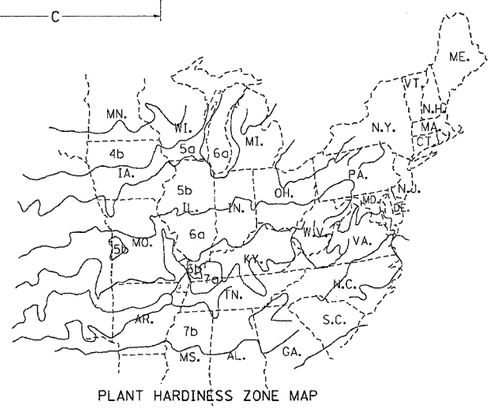
LARGE TREE SIZE	A DIAMETER OF BALL OR ROOT SYS.	B DEPTH OF HOLE EXCAVATION	C WIDTH OF HOLE EXCAVATION	D THICKNESS OF MULCH COVER	E DEPTH OF BALL OR ROOT SYS.	F VOLUME OF MULCH COVER m^3 (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2½)BB	600 (24)	350 (14)	1200 (48)	100 (4)	400 (16)	0.60 (0.78)
65-75 (2½-3)BB	700 (28)	425 (17)	1200 (48)	100 (4)	475 (19)	0.60 (0.78)
75-90 (3-3½) BB	800 (32)	425 (17)	1500 (60)	100 (4)	475 (19)	0.73 (0.96)
90-100 (3½-4) BB	900 (36)	500 (20)	1500 (60)	100 (4)	550 (22)	0.73 (0.96)
100-115 (4-4½) BB	1000 (40)	550 (22)	1800 (72)	100 (4)	600 (24)	0.89 (1.16)
115-125 (4½-5) BB	1100 (44)	600 (24)	1800 (72)	100 (4)	650 (26)	0.89 (1.16)
125-140 (5-5½) BB	1200 (48)	675 (27)	2100 (84)	100 (4)	725 (29)	1.06 (1.38)



TREES SMALLER THAN 115 (4½) IN DIAMETER

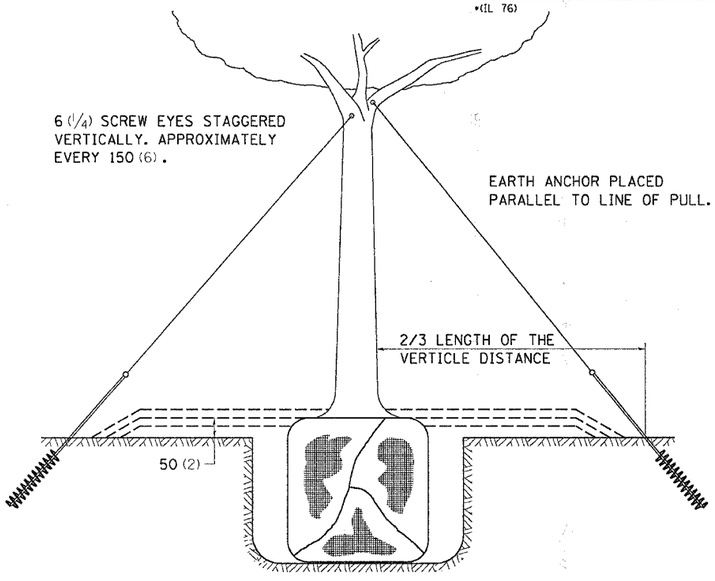




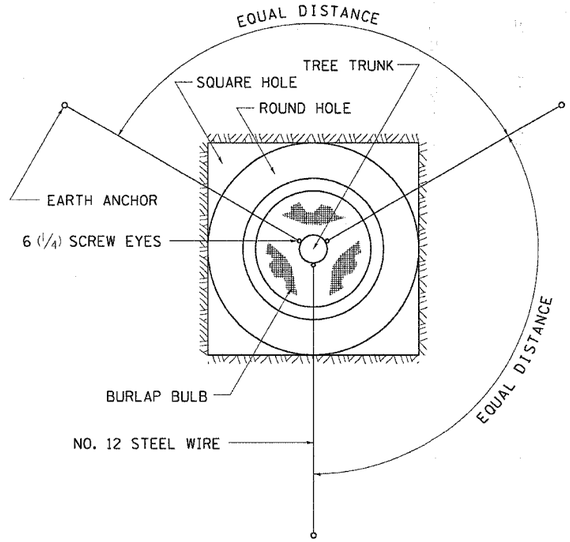


PLANT HARDINESS ZONE MAP

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814



TREES OVER 115 (4½) IN DIAMETER



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UNLESS OTHERWISE NOTED.

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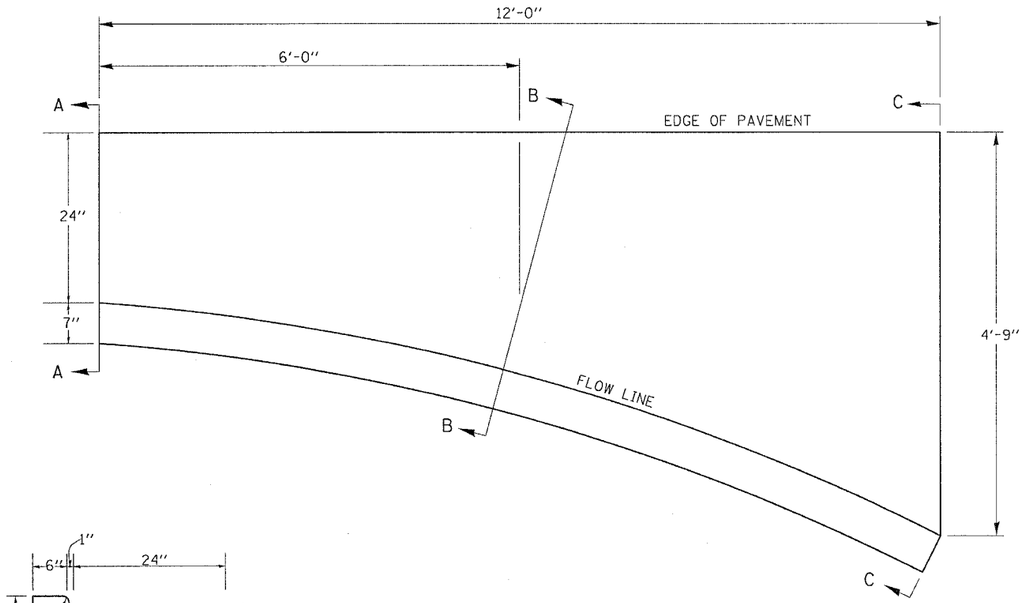
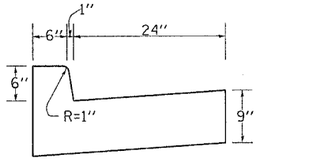
CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	58
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

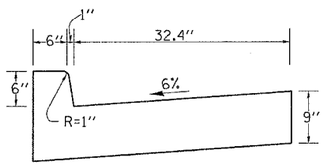
*(IL 76)

STANDARD INLET FOR CURB & GUTTER TYPE B-6.24

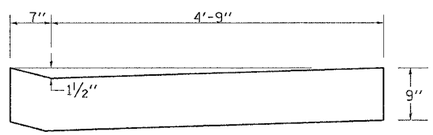




SECTION A-A



SECTION B-B



SECTION C-C

NOTES

Class SI Concrete shall be used throughout.

The Curb and Gutter inlet will be paid for at the contract unit price per cubic yard for Class SI Concrete (OUTLETS).

Joints shall be constructed in accordance with the requirementsof Article 606.07 of the Standard Specifications.

When curb and gutter is constructed adjacent to flexible pavement, a 1" expansion joint shall be installed at construction joints.

- QUANTITY -

Section A-A to C-C
(1.23 Cu. Yds.)
Class SI Concrete

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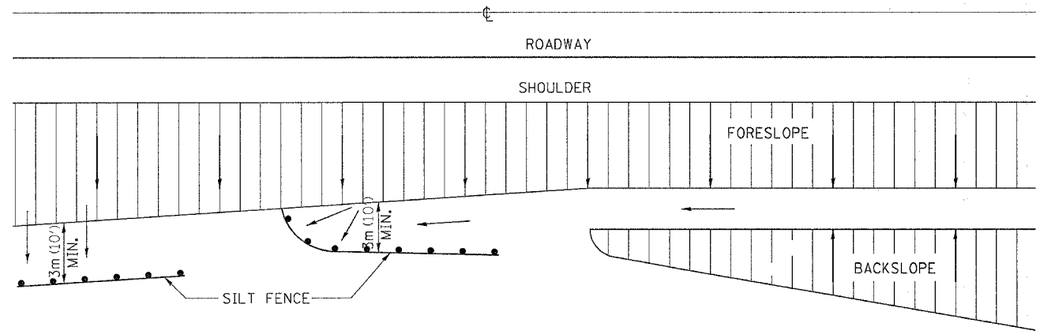
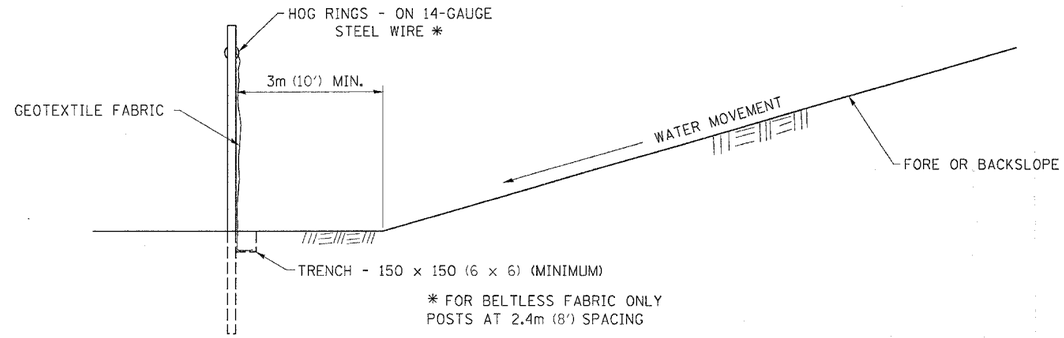
EROSION CONTROL DETAILS FOR SILT FENCE





DETAILS OF SILT FENCE

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

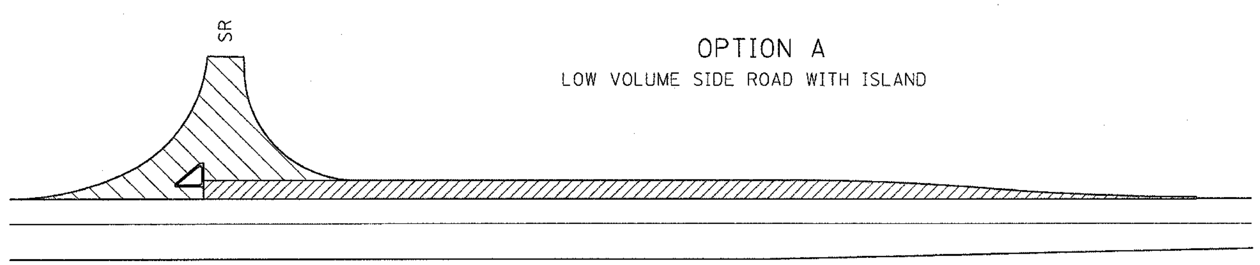
CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	59
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

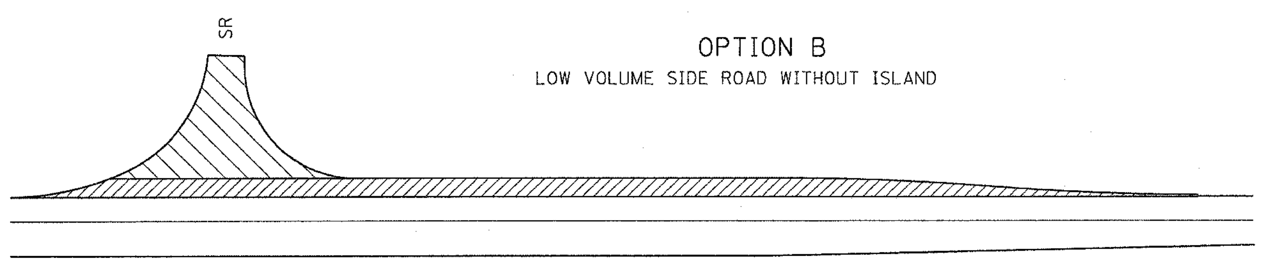
*(IL 76)

RIGHT TURN LANE CONSTRUCTION

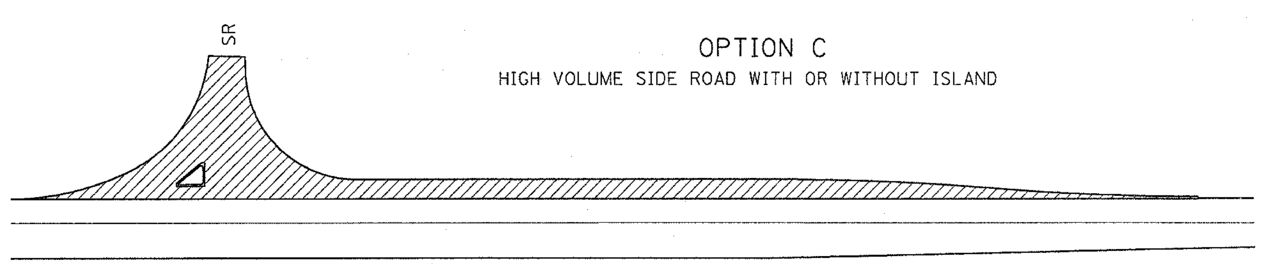
OPTION A
LOW VOLUME SIDE ROAD WITH ISLAND



OPTION B
LOW VOLUME SIDE ROAD WITHOUT ISLAND



OPTION C
HIGH VOLUME SIDE ROAD WITH OR WITHOUT ISLAND

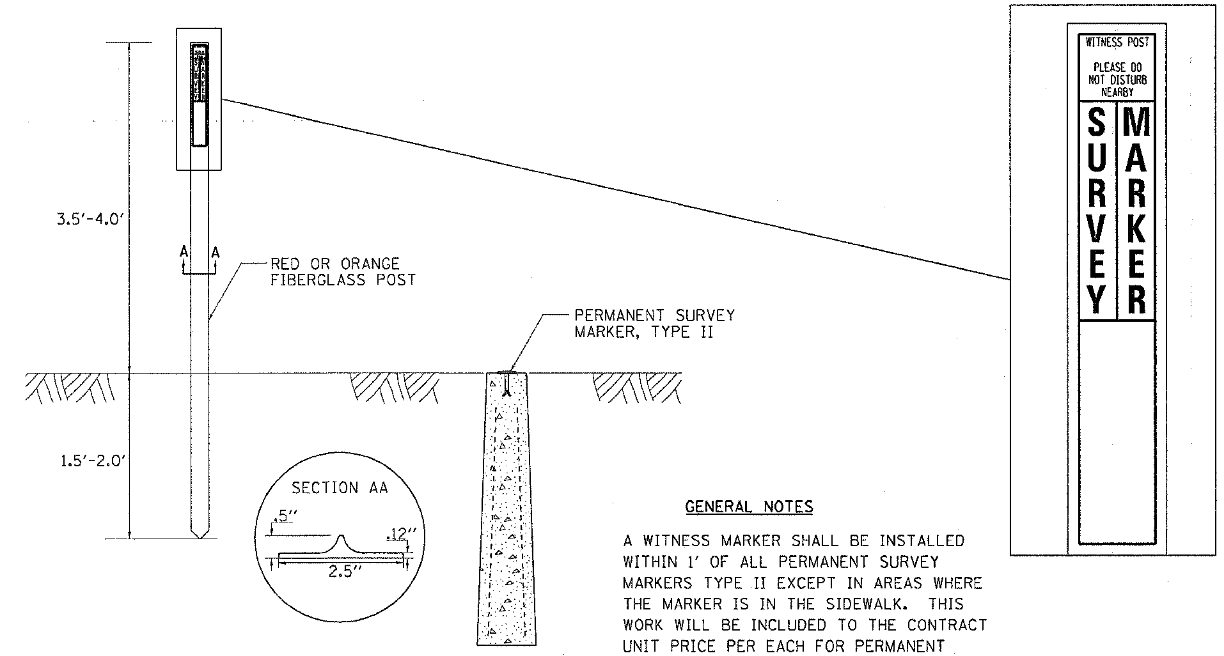


LEGEND

HOT-MIX ASPHALT PAVEMENT (FULL DEPTH)

AGGREGATE BASE WITH HOT-MIX ASPHALT SURFACE

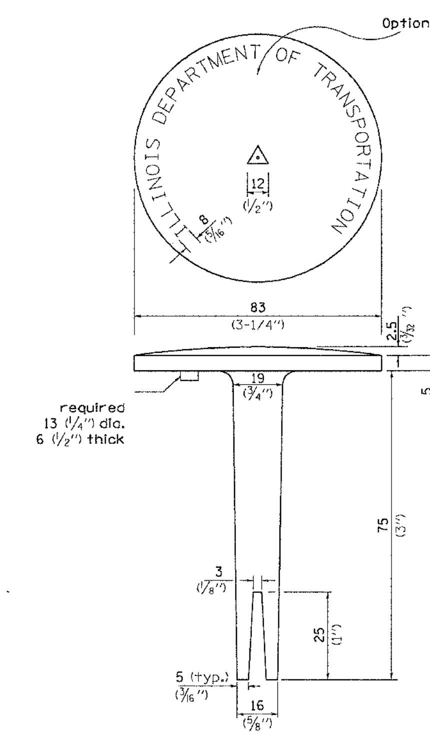
WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



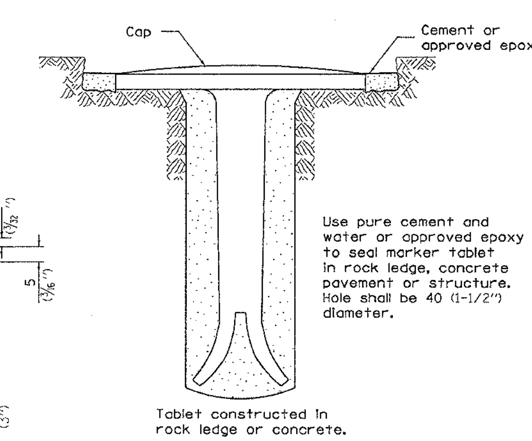
GENERAL NOTES

A WITNESS MARKER SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II EXCEPT IN AREAS WHERE THE MARKER IS IN THE SIDEWALK. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.

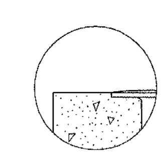
PERMANENT SURVEY MARKERS, TYPE II



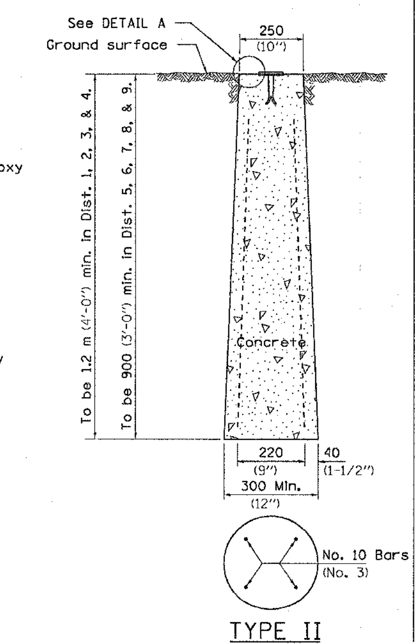
BRASS OR ALUMINUM TABLET



TYPE II



DETAIL A



TYPE II

CAST-IN-PLACE MARKER

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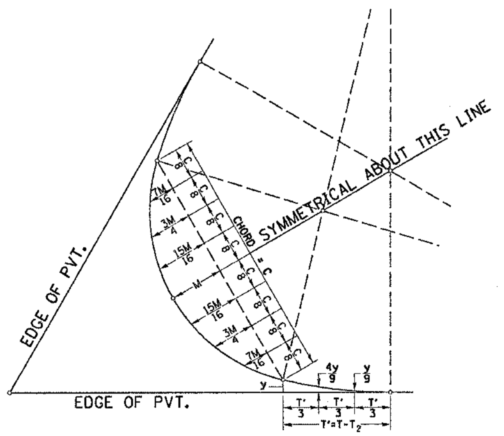
CONTRACT NO. 64B81

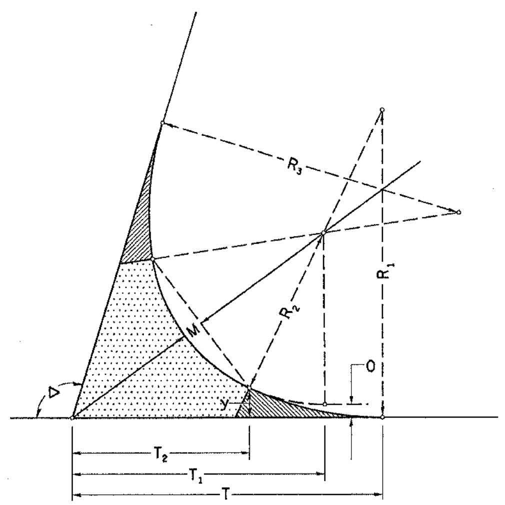
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	60
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*(IL 76)

THREE CENTER CURVE DATA



FIELD LAYOUT METHOD



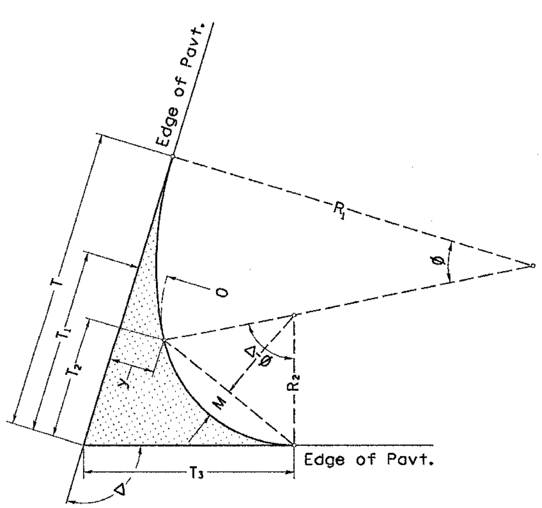
FOR SYMMETRICAL CURVES

SYMMETRICAL CURVES

CURVE #							
R_1							
R_2							
R_3							
O							
Δ							
T							
T_1							
T_2							
T'							
y							
$\frac{4y}{9}$							
$\frac{y}{9}$							
M							
$\frac{15M}{16}$							
$\frac{3M}{4}$							
$\frac{7M}{16}$							
C							

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

TWO CENTER CURVE DATA



TWO CENTER CURVES

CURVE #	1	2	3	4			
R_1	300	300	300	300			
R_2	50	50	50	50			
O	10	12	10	12			
Δ	98.100	81.970	98.030	81.90			
T	129.04	118.27	128.96	118.20			
T_1	59.04	41.75	58.96	41.68			
T_2	45.04	26.44	44.96	26.38			
T_3	67.72	55.56	67.65	55.51			
y	12.00	14.40	12.00	14.40			
$\frac{4y}{9}$	5.33	6.40	5.33	6.40			
$\frac{y}{9}$	1.33	1.60	1.33	1.60			
M	12.22	7.63	12.20	7.62			
$\frac{15M}{16}$	11.46	7.15	11.44	7.14			
$\frac{3M}{4}$	9.16	5.72	9.15	5.71			
$\frac{7M}{16}$	5.35	3.34	5.34	3.33			
C	65.50	53.10	65.45	53.05			

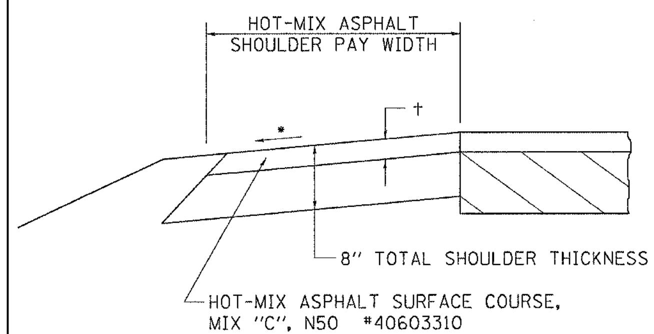
TWO AND THREE CENTER CURVE DATA 92.2

REVISED 3-22-90

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	61
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*(IL 76)

HOT-MIX ASPHALT SHOULDER



† = SEE TYPICAL SECTIONS FOR THICKNESS

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310.

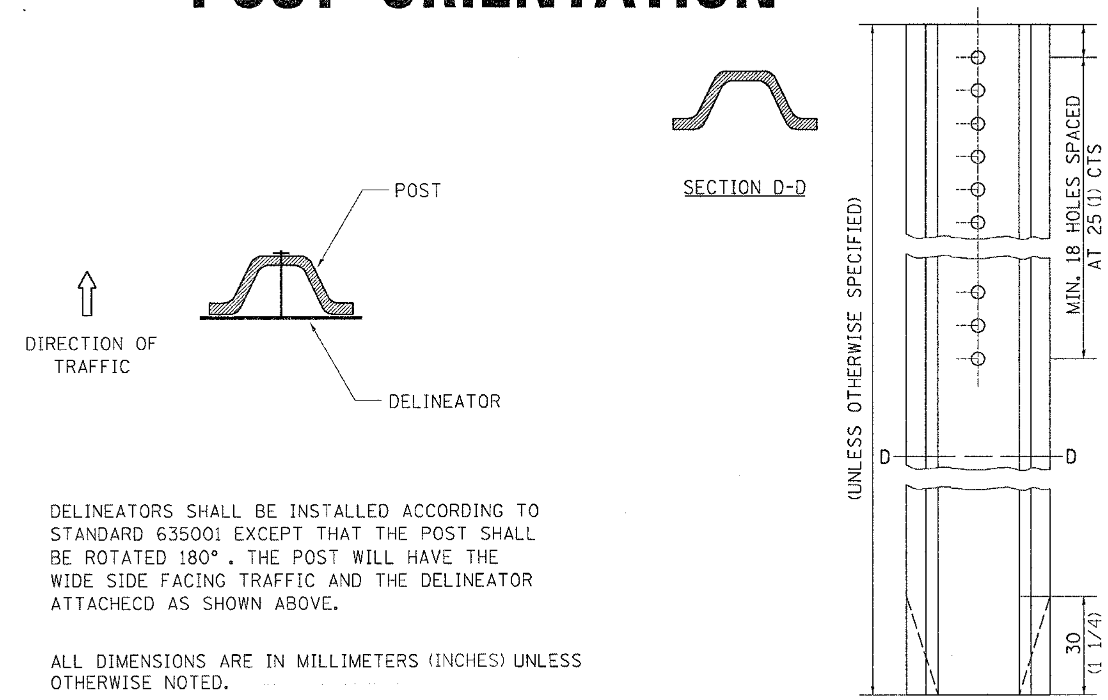
REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

HOT-MIX ASPHALT SHOULDER 23.4a

REVISED 10-06-06

DELINEATOR AND POST ORIENTATION



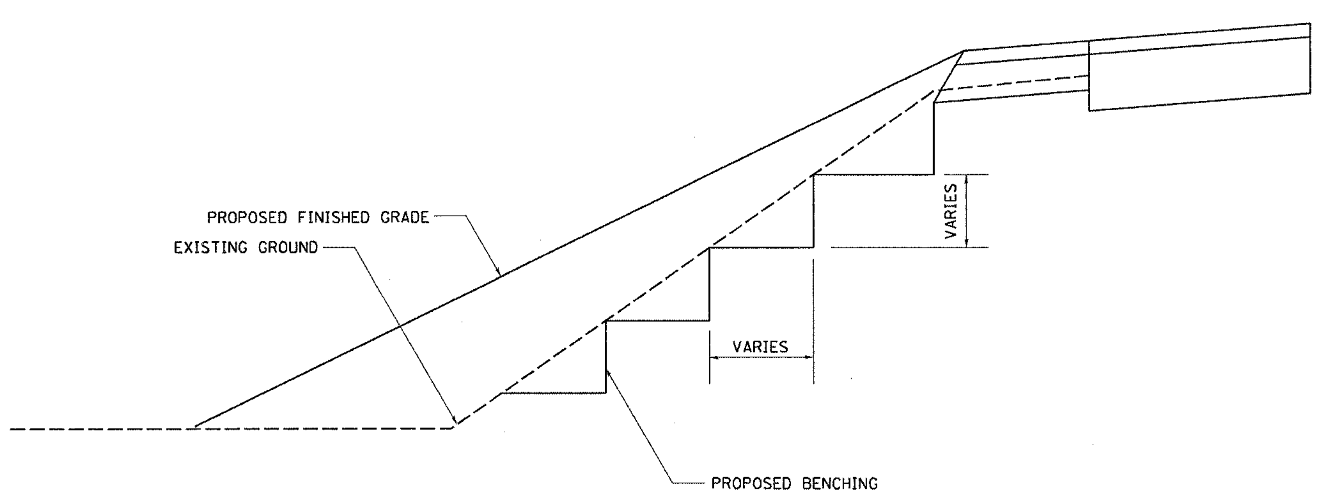
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHECD AS SHOWN ABOVE.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

DELINEATOR AND POST ORIENTATION 37.4

REVISED 1-31-00

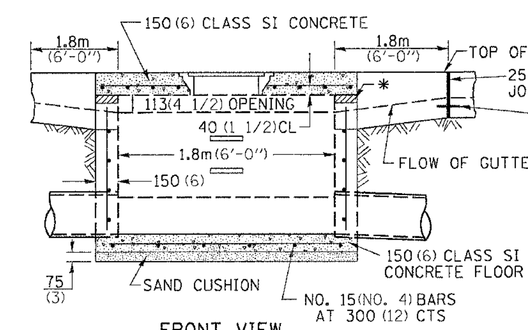
TYPICAL BENCHING ON EXISTING EMBANKMENT



TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

REVISED 2-22-06

INLET SPECIAL NO. 3

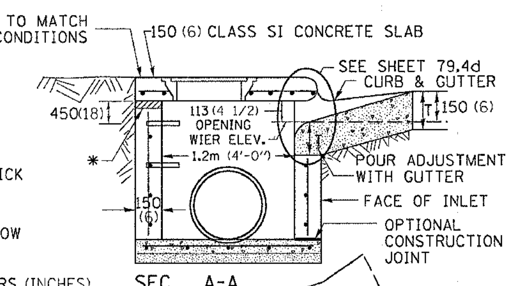


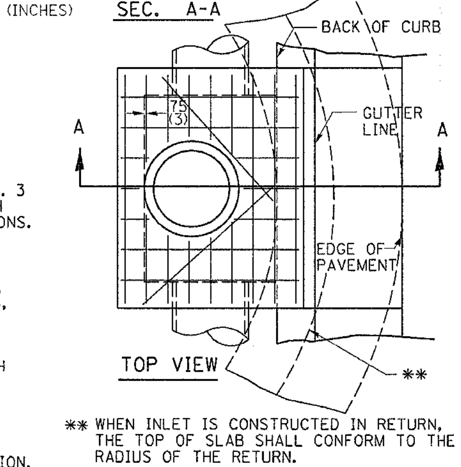
STEPS AT 300 (12) TO 400 (16) CTS.

* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 150 (6) SHORT TO ALLOW FOR FIELD ADJUSTMENTS.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.





NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

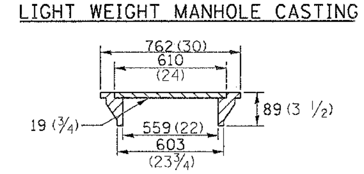
25 (1) PREFORMED EXPANSION JOINTS AS SHOWN SHALL BE PROVIDED ON EACH SIDE OF INLET.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED TROUGHOUT.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS.

REINFORCEMENT FOR INLET SPECIAL #3 SHALL BE ACCORDING TO DISTRICT STANDARD 79.4e

LIGHT WEIGHT MANHOLE CASTING



TOTAL WEIGHT 73 KG. (160 LBS.)

STEPS SHALL BE OMITTED WHEN DEPTH OF INLET IS LESS THAN 1.5 m (5 ft.)

THE INLET SHALL BE CAST IN PLACE OR PRECAST.

EXCEPT AS NOTED HEREON INLET SPECIAL NO. 3 SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL NO. 3 SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE FRAME, LID, REINFORCEMENT BARS, FLOOR AND TOP SLABS, CAST IRON STEPS (IF USED).

THE CURB AND GUTTER WILL BE PAID FOR SEPARATELY AND WILL BE MEASURED THROUGH THE INLET.

THE CURB AND GUTTER ADJACENT TO AND 1.8m (6 FT) ON EITHER SIDE OF THE INLET SHALL BE CONSTRUCTED AS SHOWN WITH NO ADDITIONAL COMPENSATION FOR THE TRANSITION.

** WHEN INLET IS CONSTRUCTED IN RETURN, THE TOP OF SLAB SHALL CONFORM TO THE RADIUS OF THE RETURN.

INLET SPECIAL NO. 3 79.4

REVISED 4-4-05

PLOT DATE = Fri Dec 08 13:22:21 2006
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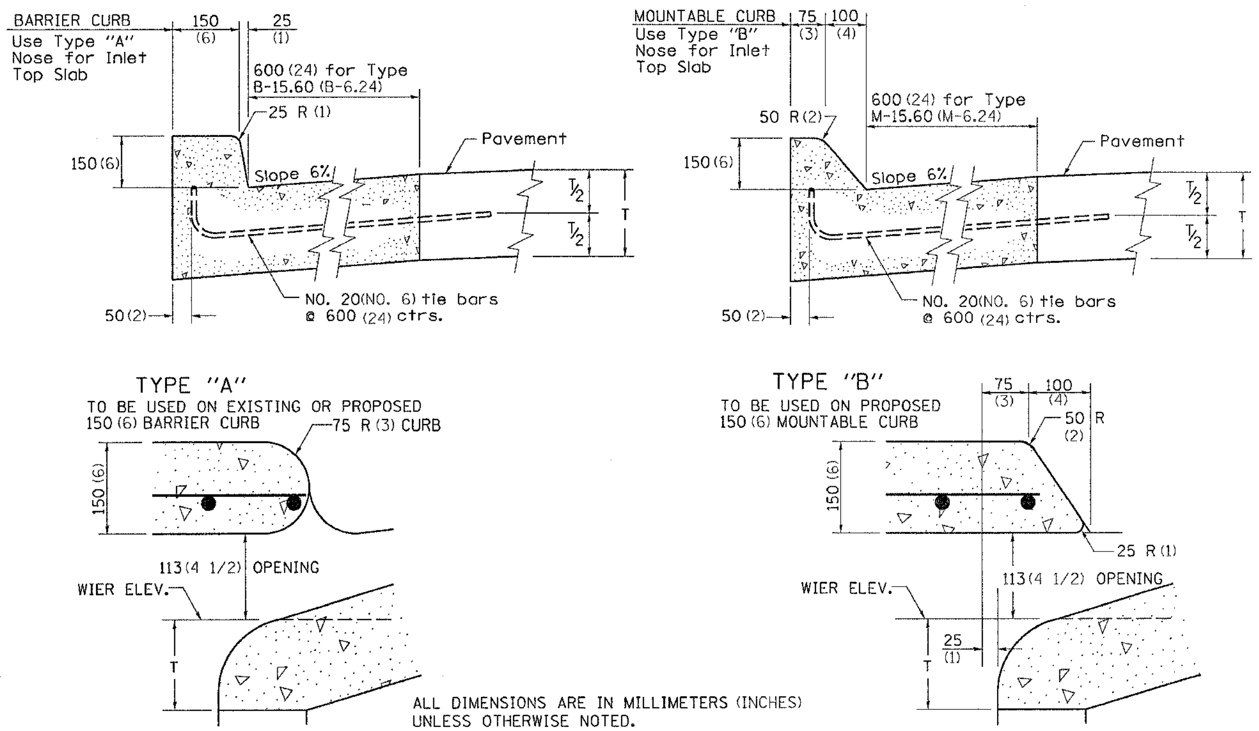
PLOT SCALE = 50.0000 ' / IN.
REFERENCE = REF

CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*754	101M&TS	BOONE	95	62
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*(IL 76)

NOSE TYPE FOR INLET TOP SLAB

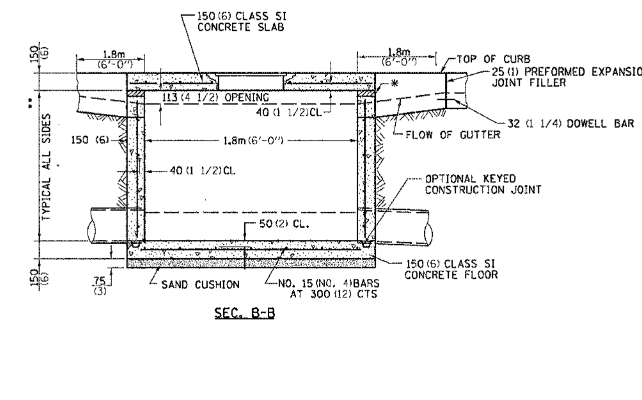


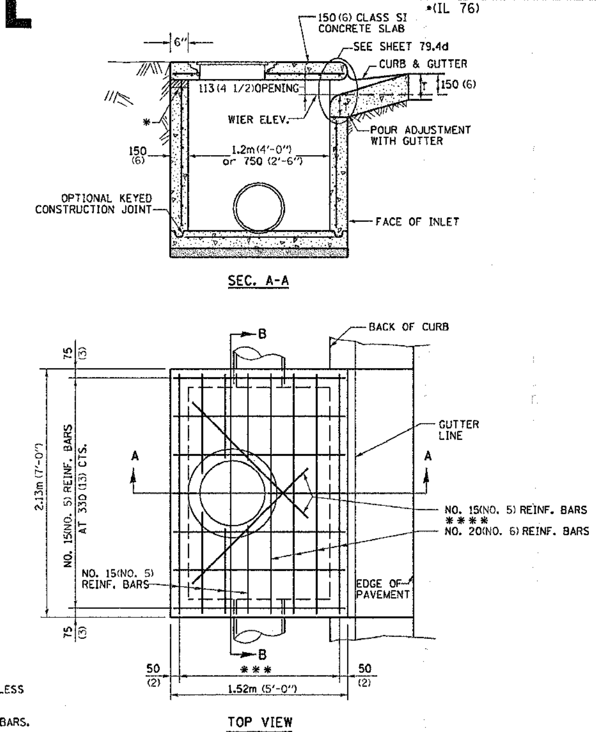
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

NOSE TYPE FOR INLET TOP SLAB 79.4d

REVISED 2-14-95

INLET SPECIAL NO. 3, 4, 5, 6 REINFORCEMENT DETAIL





* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 150 (6) SHORT TO ALLOW FOR FIELD ADJUSTMENTS.

** 1.2m (4'-0") TO 2.4m (8'-0") - NO. 15 (NO. 5) REINF. BARS AT 300 (12) CTS. E.W.
2.4m (8'-0") TO 4.0m (13'-0") - NO. 15 (NO. 5) REINF. BARS AT 250 (10) CTS. E.W.
4.0m (13'-0") TO 4.6m (15'-0") - NO. 15 (NO. 5) REINF. BARS AT 200 (8) CTS. E.W.

*** 7 SPA. AT 200 mm (8") INLET SPECIAL # 3, 4
5 SPA AT 208 mm (7 5/8") INLET SPECIAL # 5, 6

**** 2 REBARS FOR INLET SPECIAL 3 & 4
4 REBARS FOR INELT SPECIAL 5 & 6

NOTES

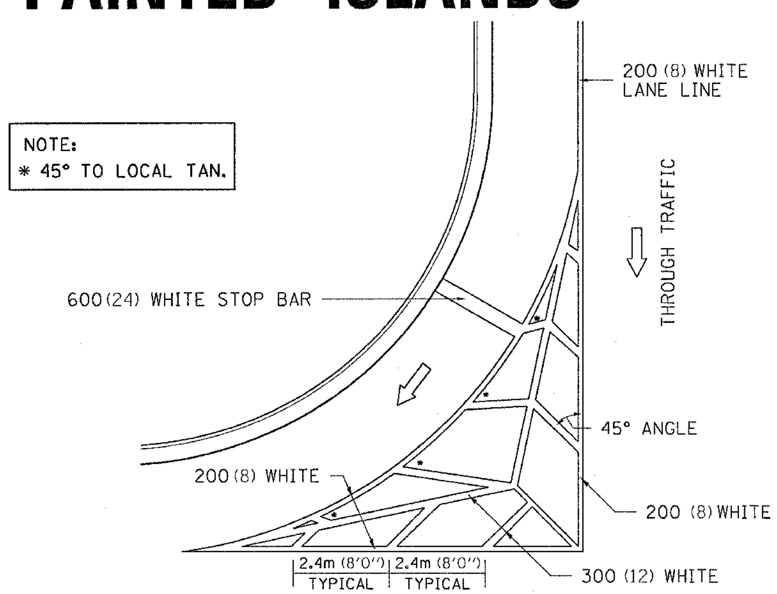
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

TOP SLAB REINFORCEMENT TO BE EPOXY COATED BARS.

INLET SPECIAL NO. 3, 4, 5, 6 REINFORCEMENT DETAIL 79.4e

REVISED 4-4-05

TYPICAL MARKING FOR PAINTED ISLANDS

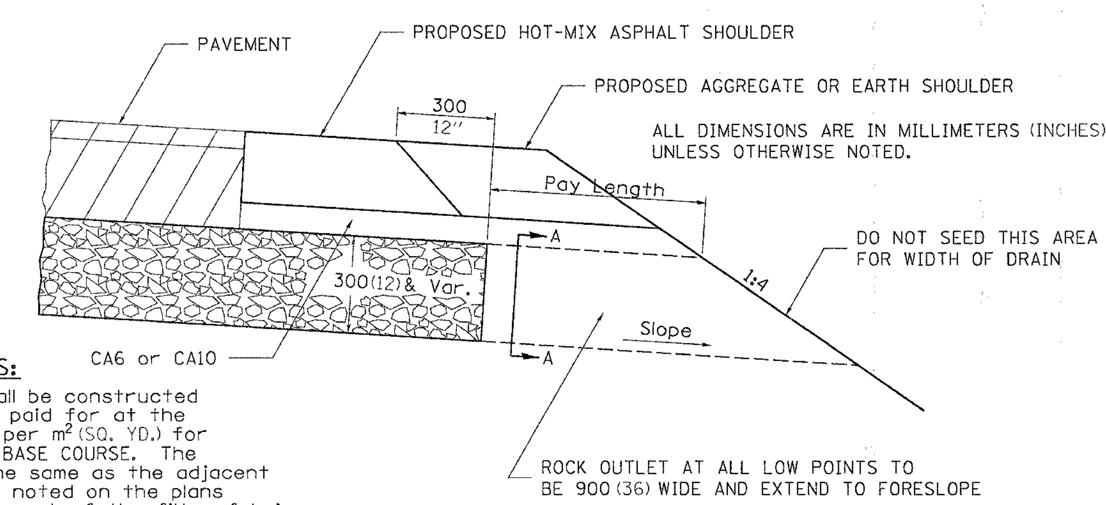


ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

TYPICAL MARKING FOR PAINTED ISLANDS 93.4

REVISED 2-7-05

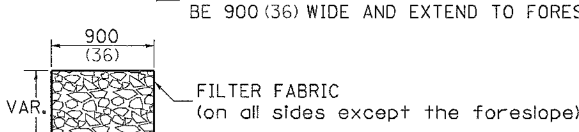
DRAIN FOR AGGREGATE BASE COURSE



ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

NOTES:

The rock outlets shall be constructed using CA7 and will be paid for at the contract unit price per m^2 (SQ. YD.) for DRAIN FOR AGGREGATE BASE COURSE. The thickness shall be the same as the adjacent sub-base material as noted on the plans and shall include the cost of the filter fabric. The Rock outlets will be measured in m^2 (SQ. YD.), the width being 900 (36) by the length shown above. The cost of the CA6 or CA10 under the shoulder shall be included in the contract unit price per m^2 (SQ. YD.) for SUB-BASE GRANULAR MATERIAL, TYPE A of the thickness specified. The filter fabric to be used shall conform to the filter fabric used for Riprap.



SECTION A-A

NOTE: Slope same as shoulder with 2% min.

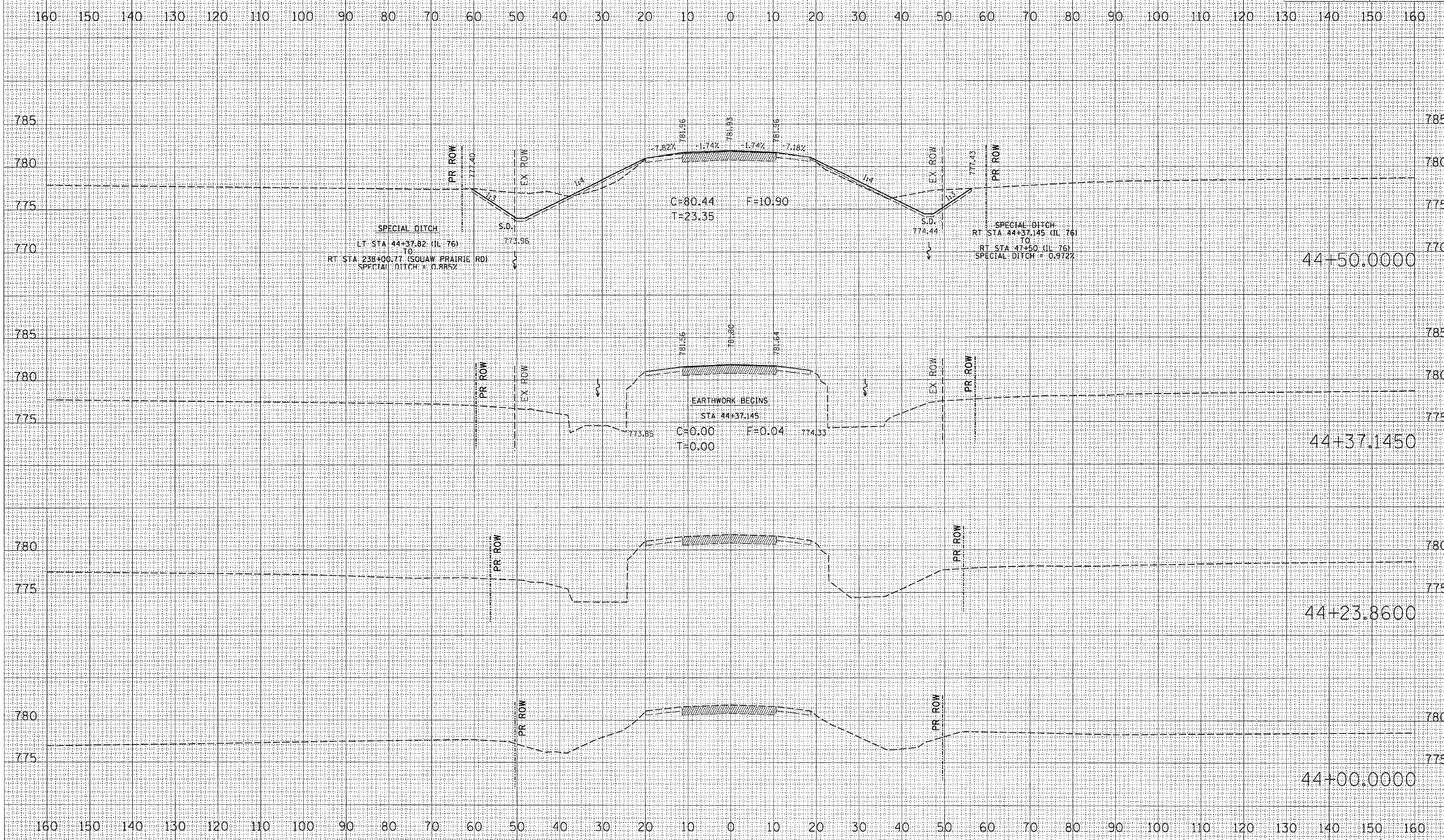
X0325519

DRAIN FOR AGGREGATE BASE COURSE 96.4

REVISED 10-10-06

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	63
STA. 44+00.0000 TO STA. 44+50.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

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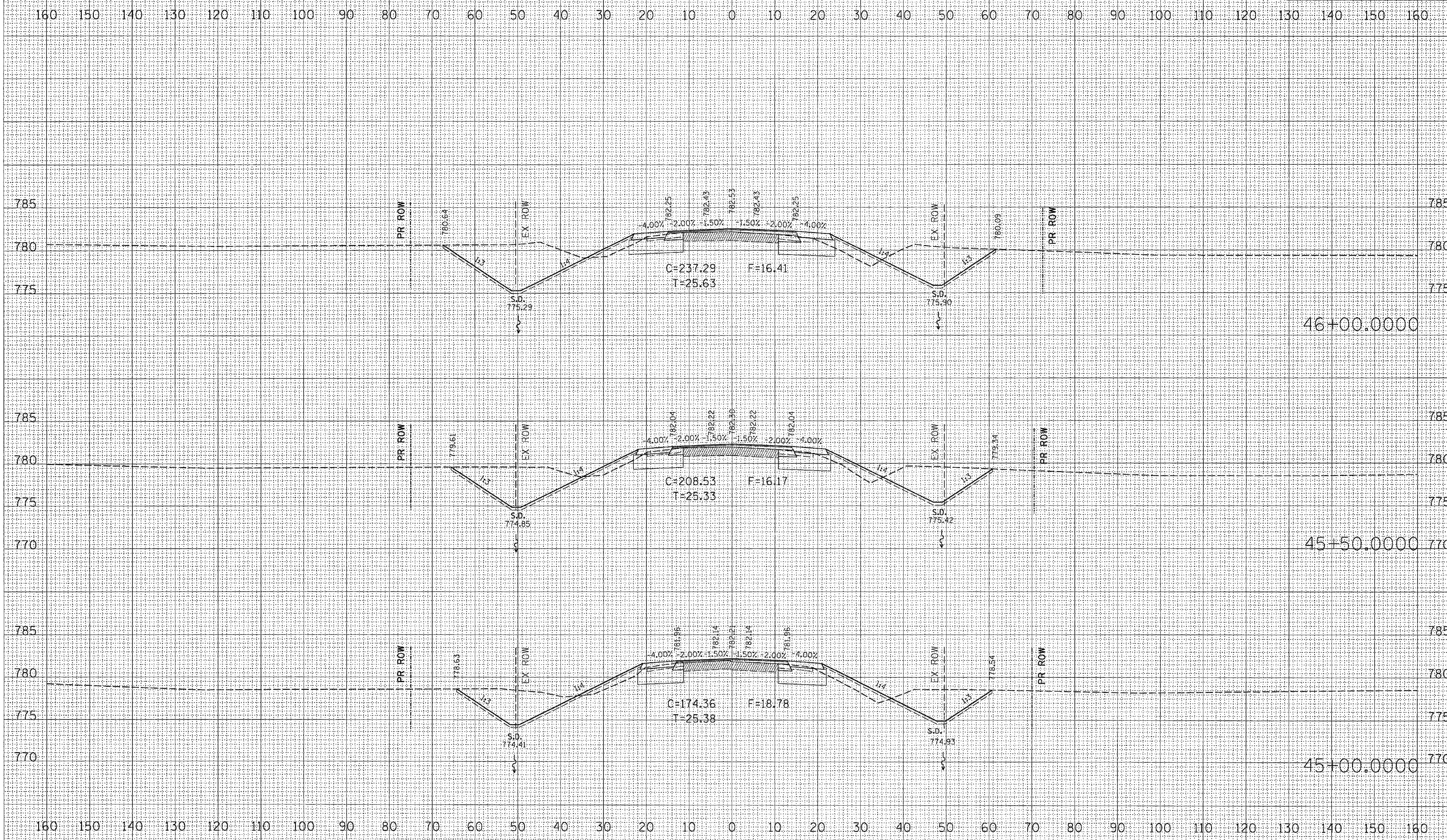
USER NAME = stringer jm

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	64
STA. 45+00.0000 TO STA. 46+00.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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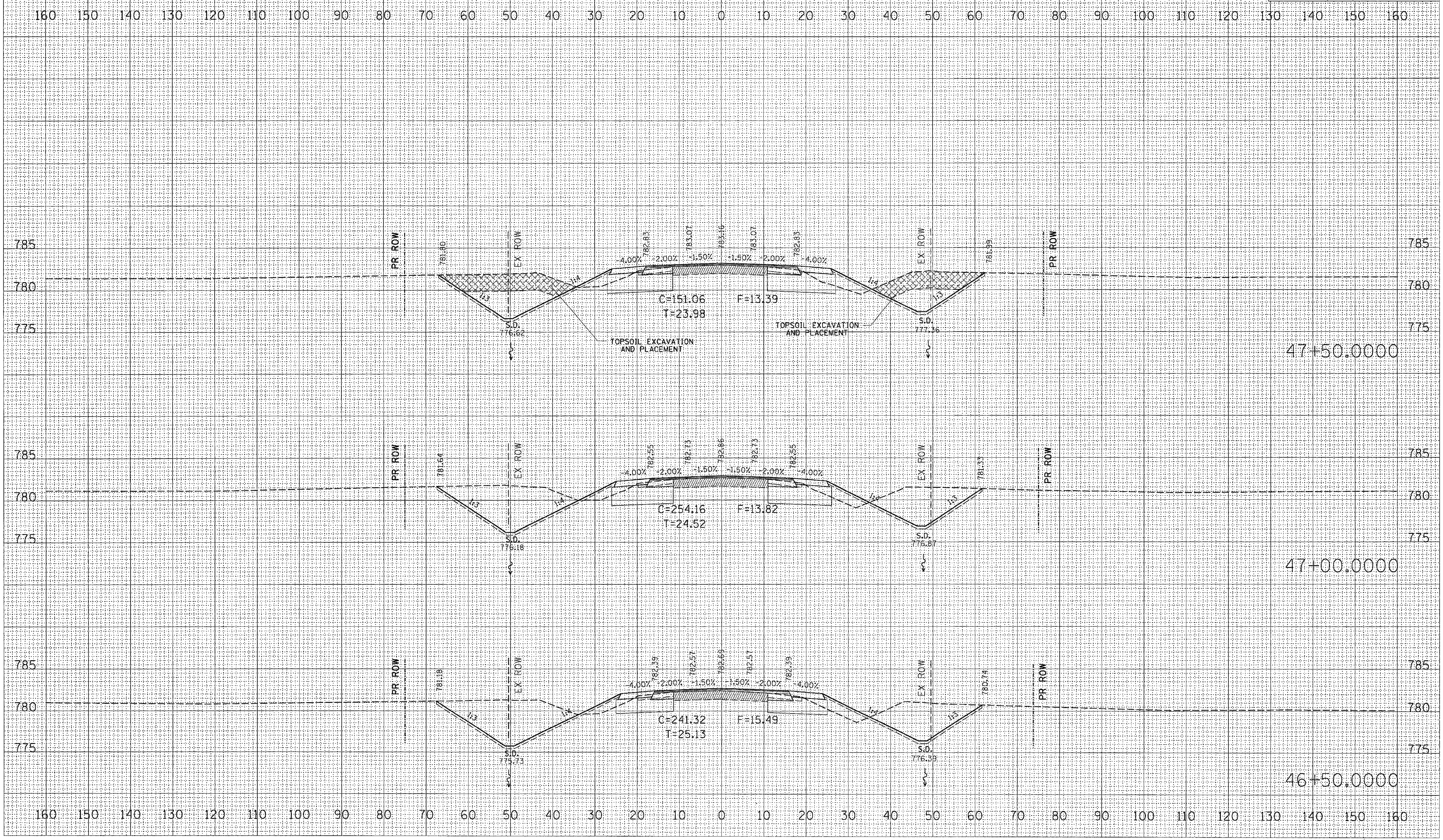
CONTRACT NO. 64B81

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	65

STA. 46+50.0000 TO STA. 47+50.0000

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



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CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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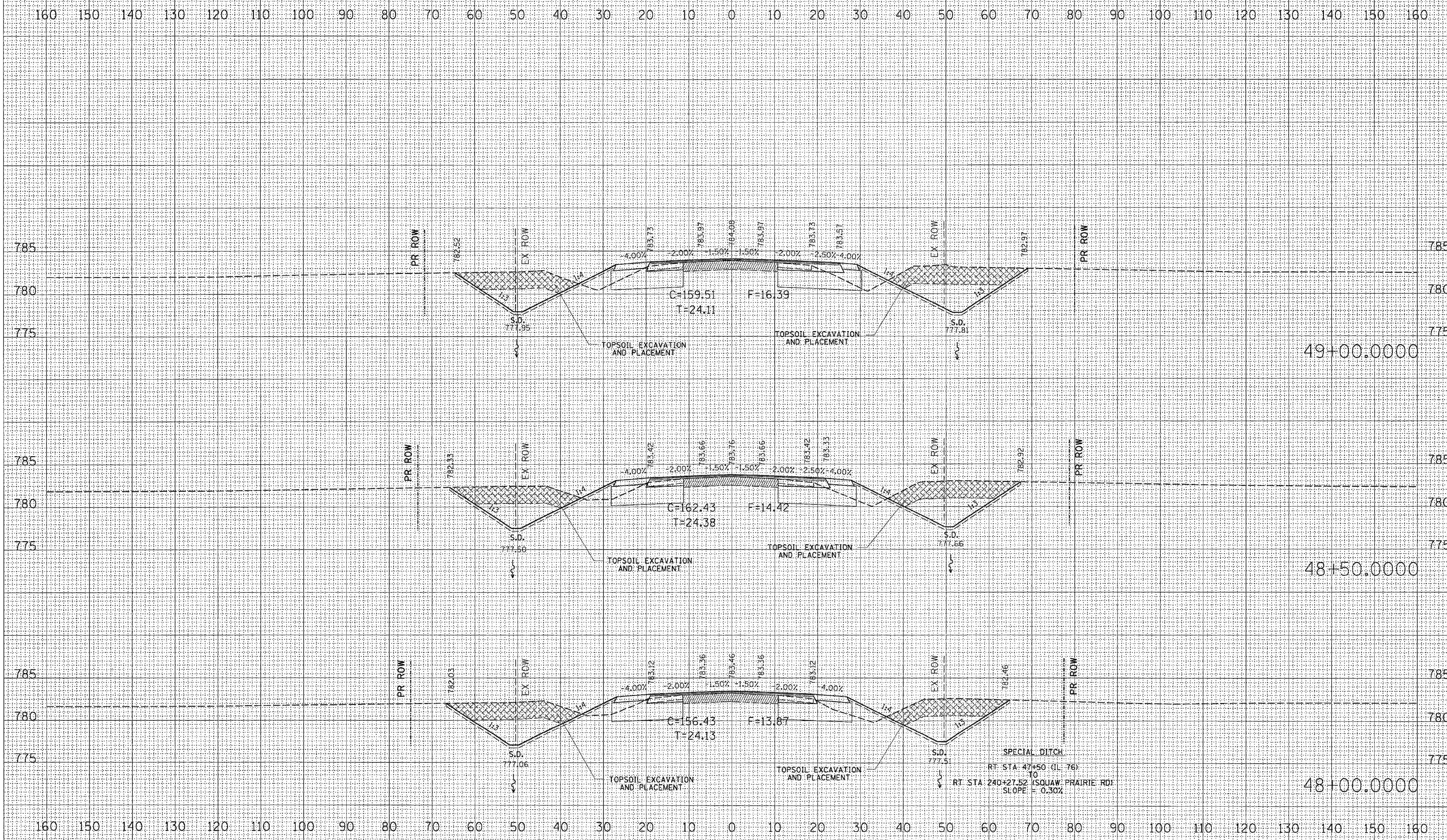
STA. 48+00.0000 TO STA. 49+00.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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ORIGINAL SURVEY | NOTE BOOK | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

PLOT DATE : Thu Dec 07 13:46:57 2006

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	67
STA. 49+50.0000	TO STA. 50+00.0000			
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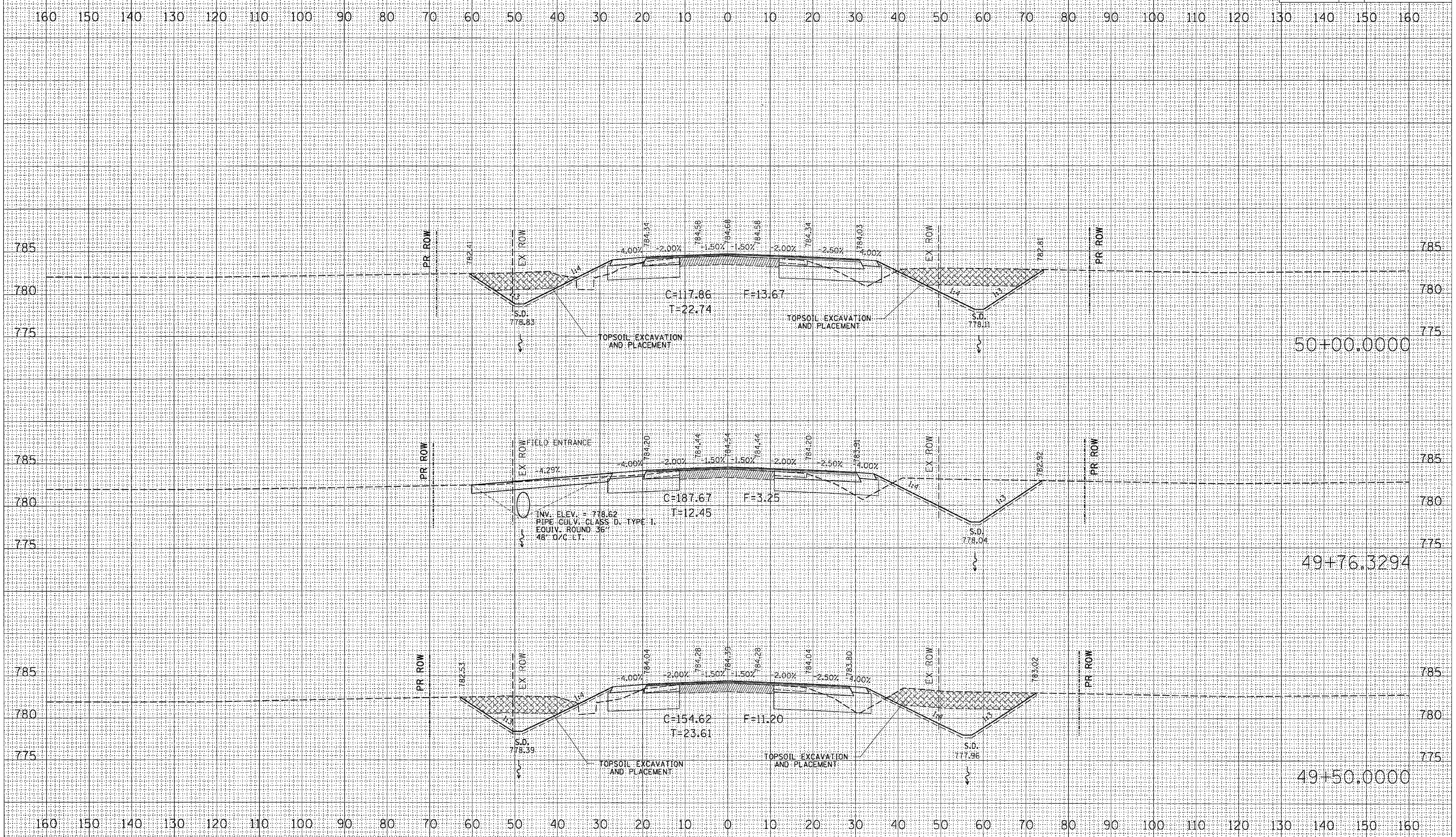

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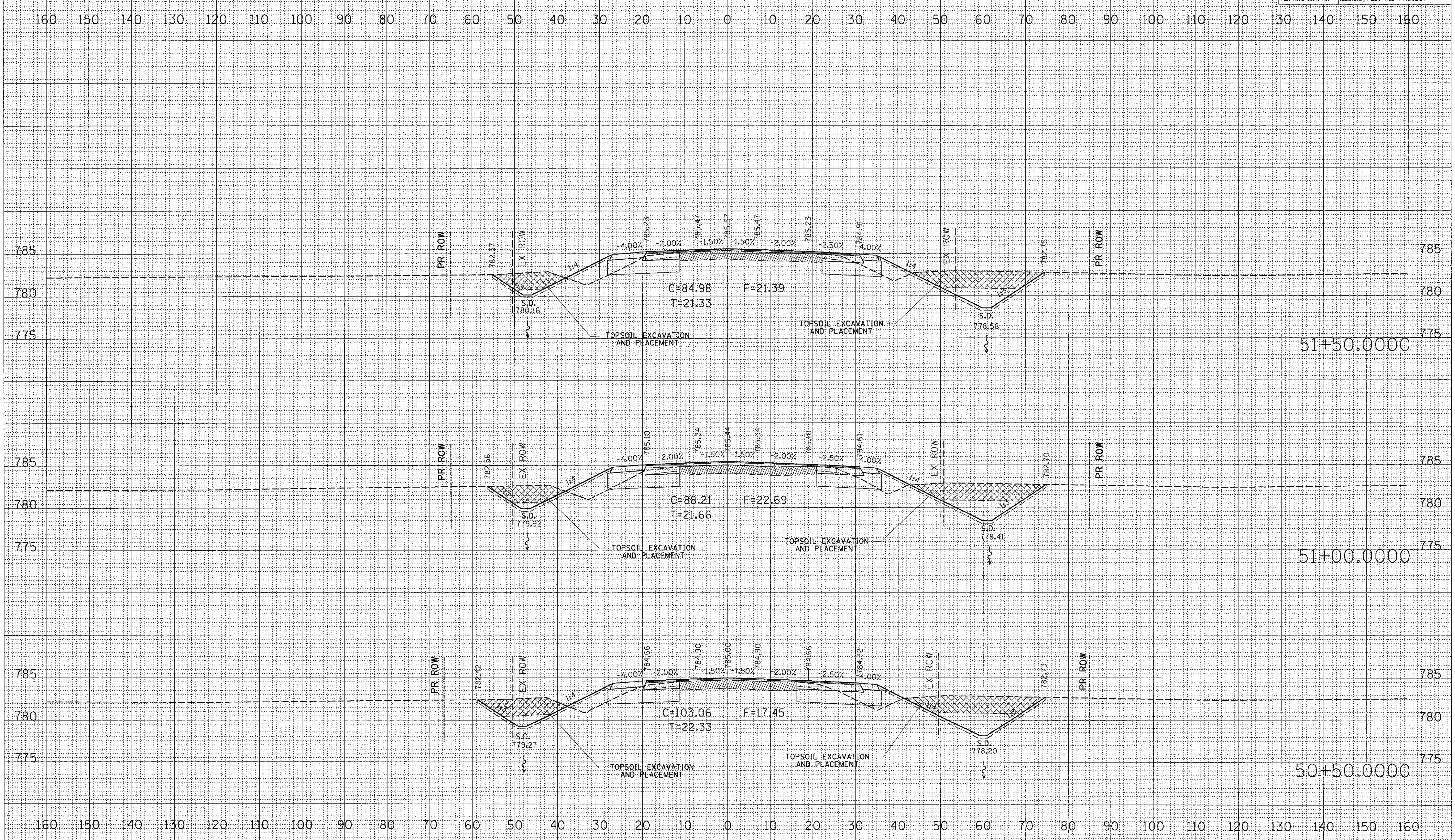
PLOT DATE = Thu Dec 07 13:46:57 2006
PLOT SCALE = 10.0000 ' / IN.
USER NAME = stringerjm

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	68

STA. 50+50.0000 TO STA. 51+50.0000

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



FINAL SURVEY	BY	DATE
NOTE BOOK		
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

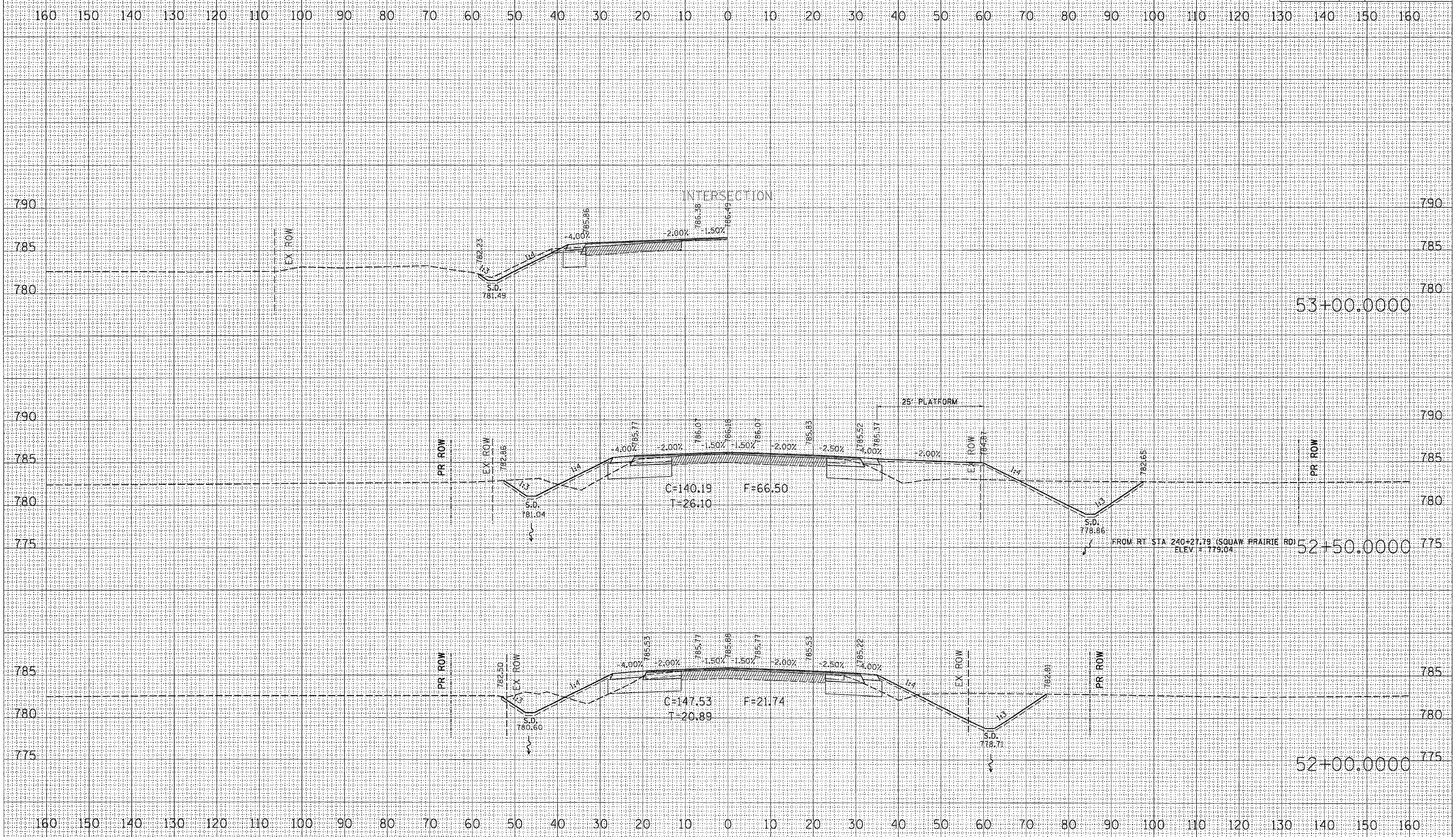
PLOT DATE : Thu Dec 07 13:46:58 2006

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	69

STA. 52+00.0000 TO STA. 53+00.0000

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



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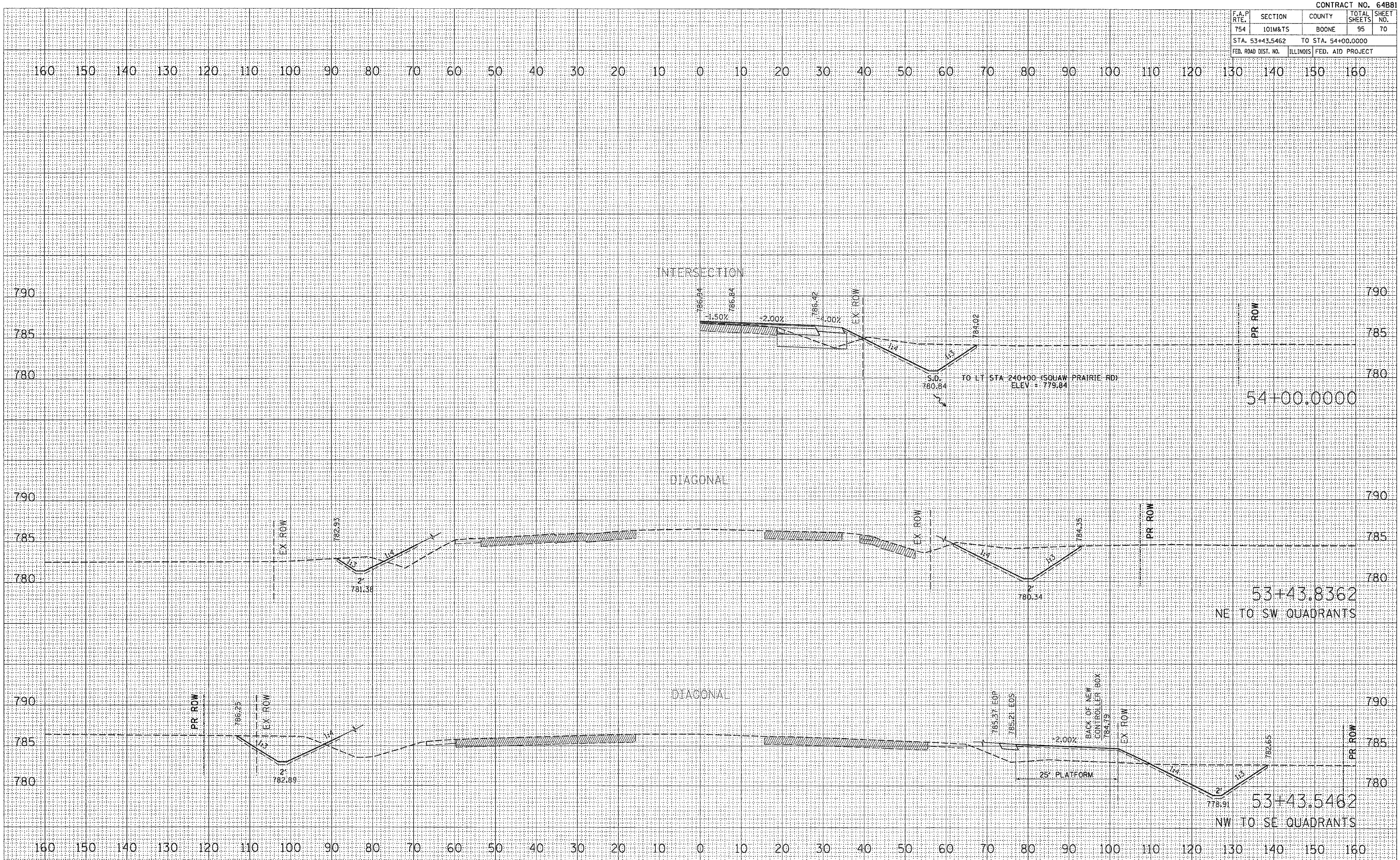
USER NAME

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	70
STA. 53+43.5462 TO STA. 54+00.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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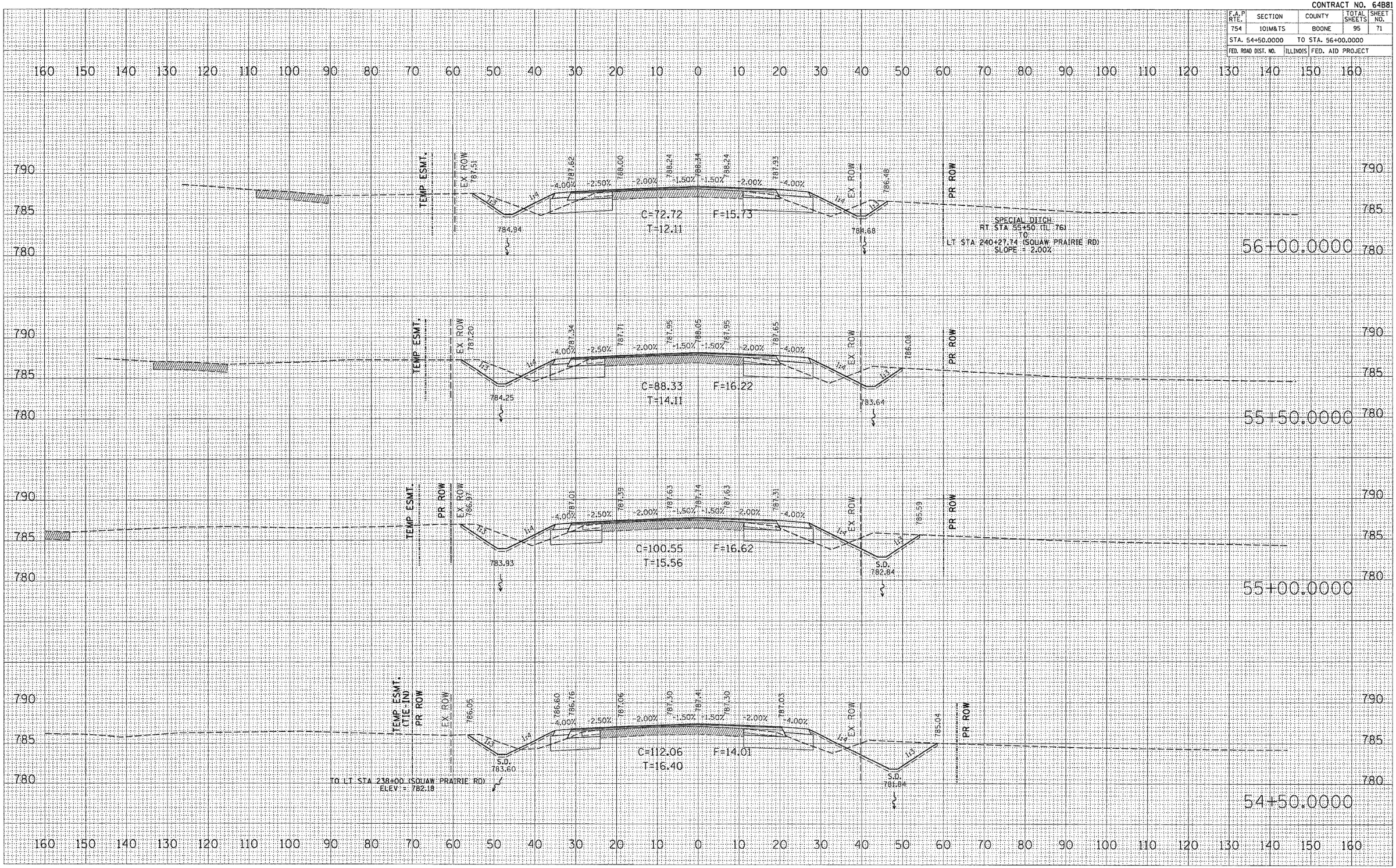
USER NAME = stringerjm

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	71
STA. 54+50.0000		TO STA. 56+00.0000		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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NOTE BOOK	PLOTTED	DATE
NO.	TEMPLATE	
	AREAS	
	AREAS CHECKED	

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

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USER NAME = tarringer

IL 76

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	72
STA. 56+50.0000		TO STA. 58+00.0000		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

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160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160

790
785

TEMP ESMT.
EX. ROW
789.57
1:3
1:4
4.00%
788.97
2.50%
789.19
2.00%
789.43
1.50%
789.53
1.50%
789.43
2.00%
789.19
4.00%
1:4
EX. ROW
1:3
788.12
PR ROW

S.D. 786.18
C=87.15
T=13.48
F=14.50
S.D. 785.87

58+00.0000

TEMP ESMT.
EX. ROW
788.95
788.59
2.50%
788.90
2.00%
789.14
1.50%
789.24
1.50%
789.14
2.00%
788.90
4.00%
EX. ROW
781.36
PR ROW

S.D. 786.03
C=81.26
T=12.29
F=14.23
S.D. 785.58

SPECIAL DITCH
LT STA 57+00 TO 58+74.01
SLOPE = 0.30%

57+50.0000

TEMP ESMT.
EX. ROW
788.58
788.19
2.50%
788.59
2.00%
788.83
1.50%
788.94
1.50%
788.83
2.00%
788.59
4.00%
EX. ROW
786.95
PR ROW

785.88
C=75.66
T=11.70
F=13.13
785.27

57+00.0000

TEMP ESMT.
EX. ROW
788.05
787.86
2.50%
788.29
2.00%
788.53
1.50%
788.63
1.50%
788.53
2.00%
788.29
4.00%
EX. ROW
786.69
PR ROW

785.33
C=75.85
T=12.13
F=13.51
784.97

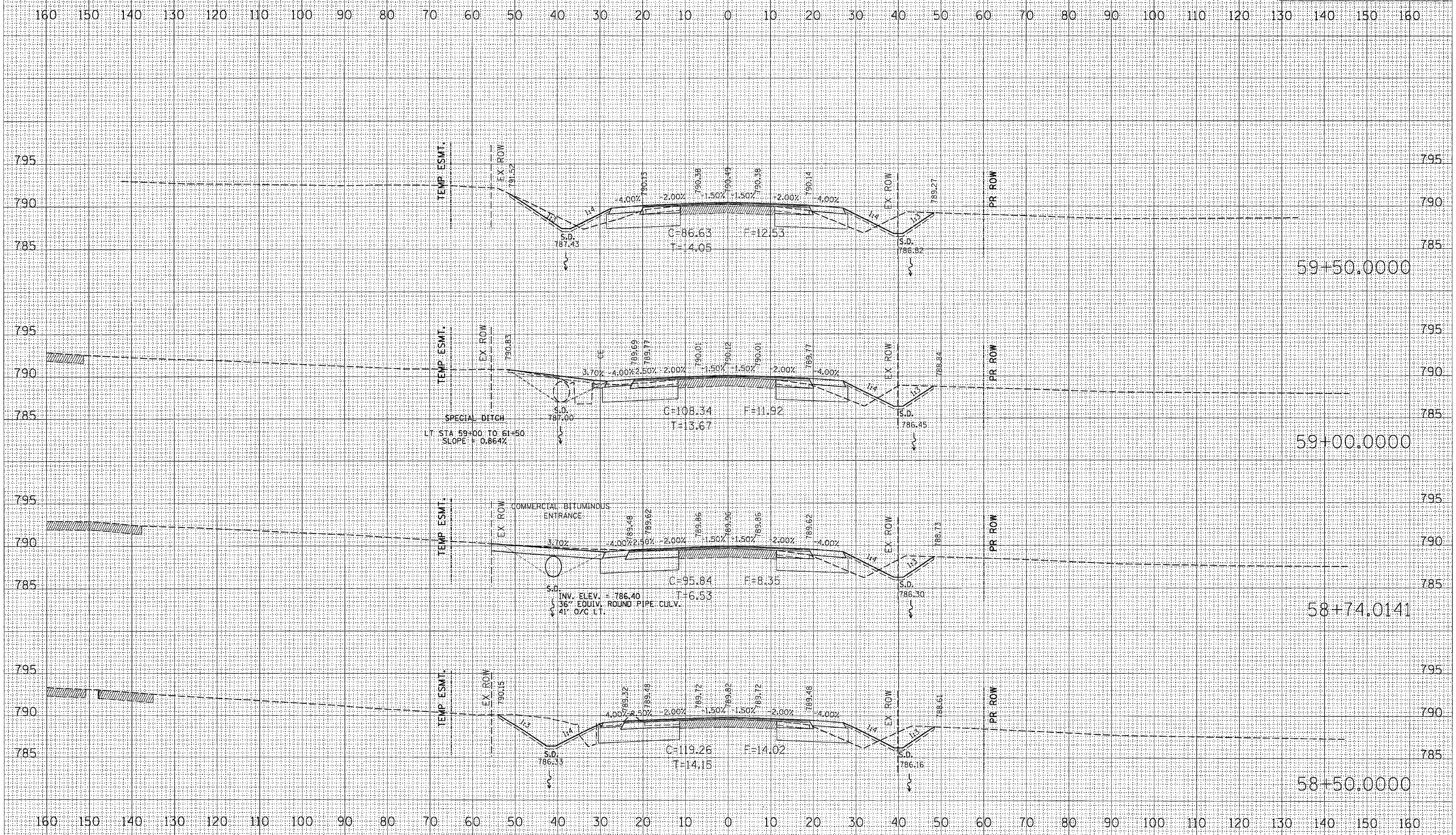
56+50.0000

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	73

STA. 58+50.0000 TO STA. 59+50.0000

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



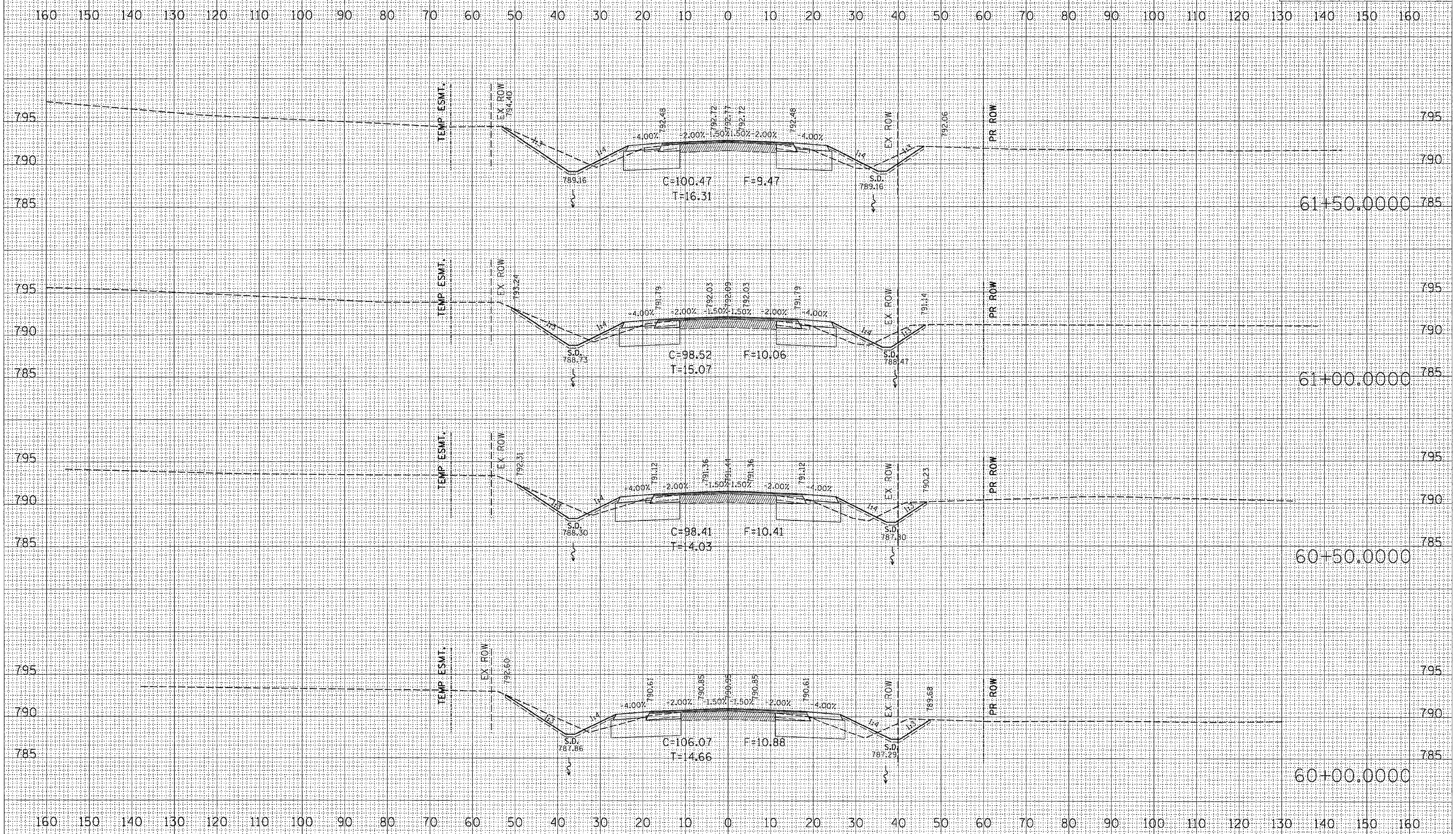
FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

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

PLOT DATE = Thu Dec 07 13:47:00 2006
FILE NAME = c:\projects\p200106\s000106xml.dgn
PLOT SCALE = 10.0000 ' / IN.
USER NAME = stringer_jm

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	74
STA. 60+00.0000 TO STA. 61+50.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

ORIGINAL SURVEY: NOTE BOOK NO. ___ SURVEYED ___ PLOTTED ___ TEMPLATE ___ AREAS ___ AREAS CHECKED ___ | BY | DATE

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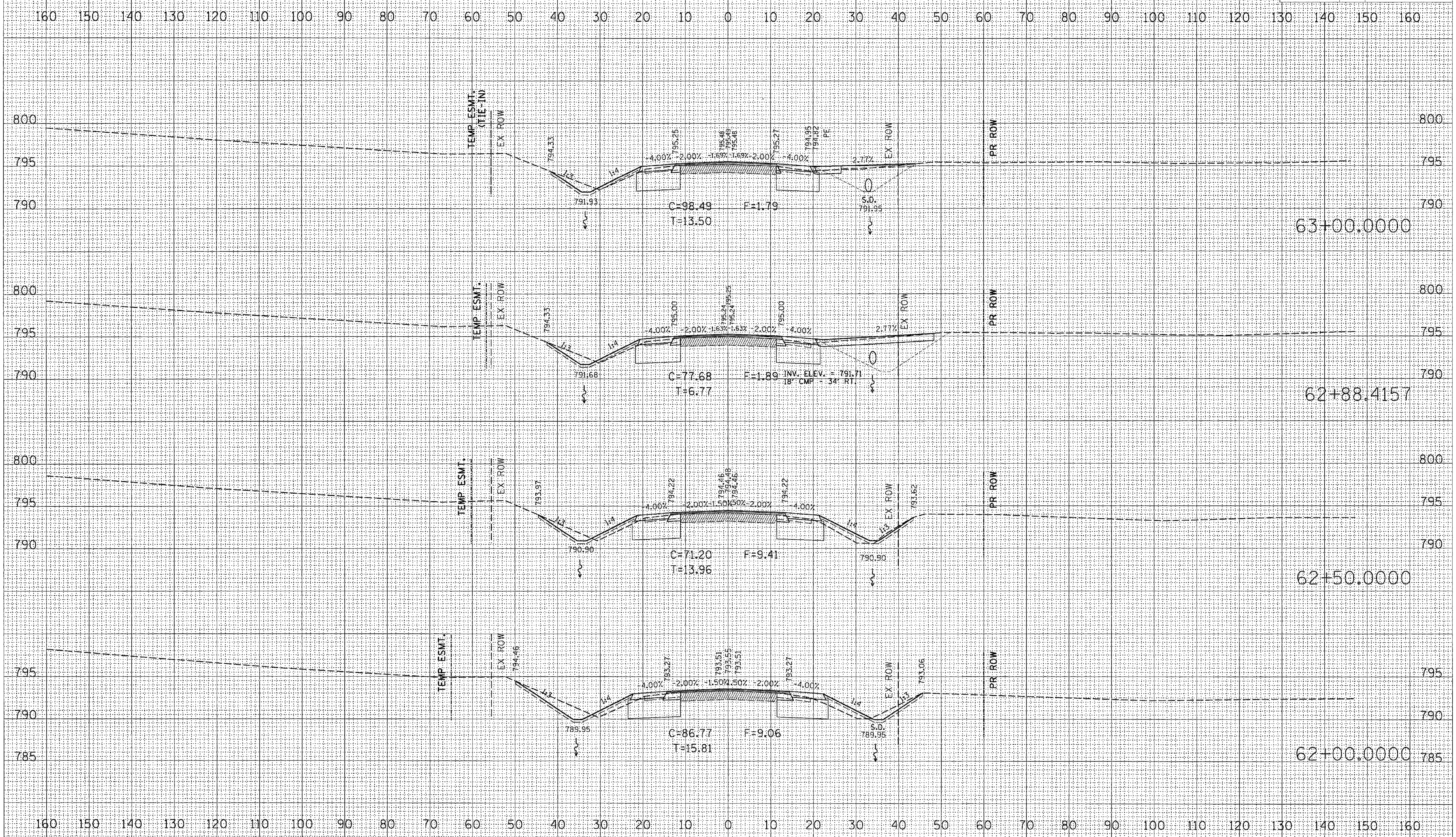
USER NAME = stringerjm

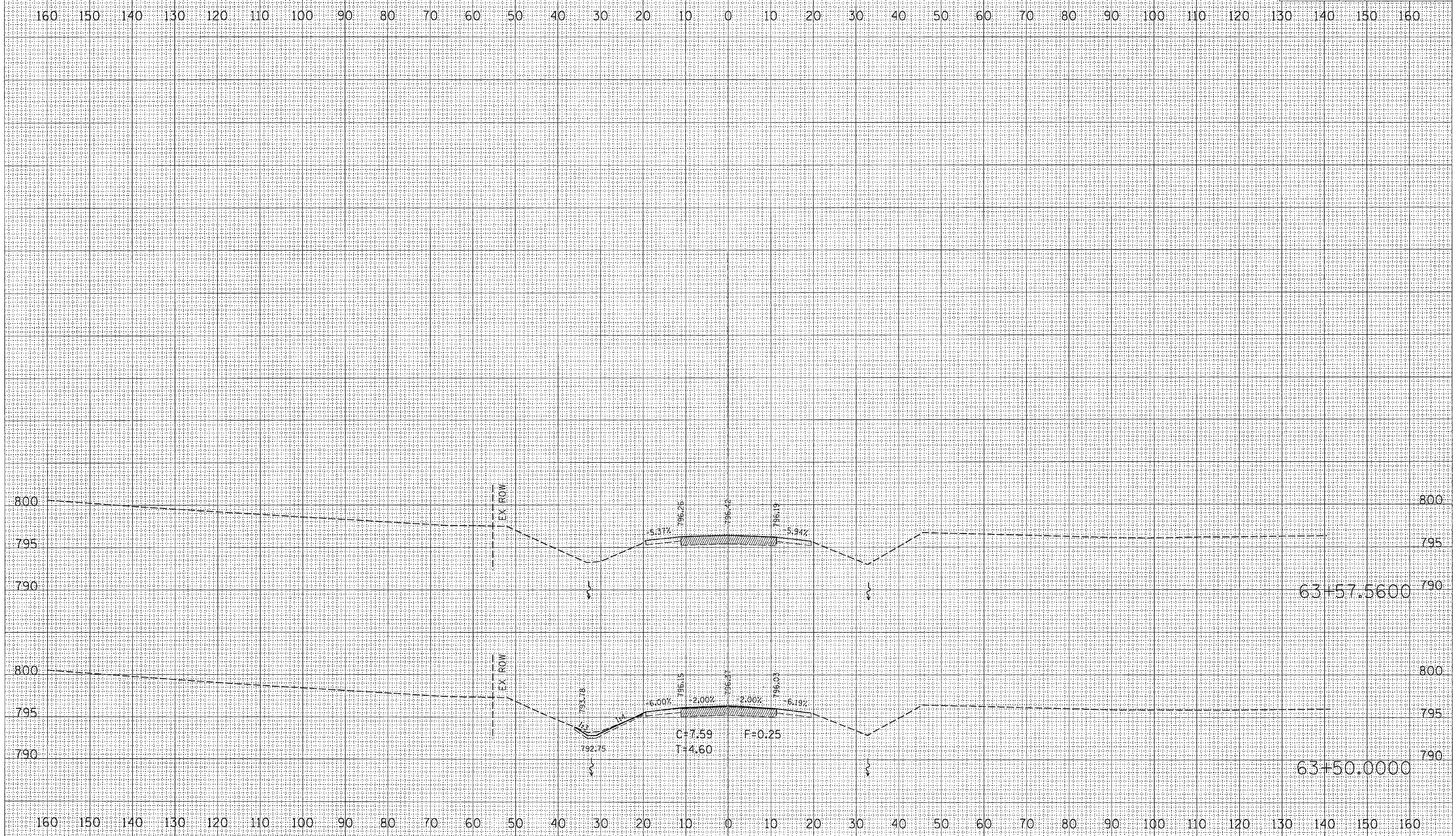
CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	75
STA. 62+00.0000 TO STA. 63+00.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	76
STA. 63+50.0000 TO STA. 63+57.5600				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

ORIGINAL SURVEY — NOTE BOOK NO. ___ — SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED — BY — DATE

PLOT DATE = Thu Dec 07 13:47:01 2006
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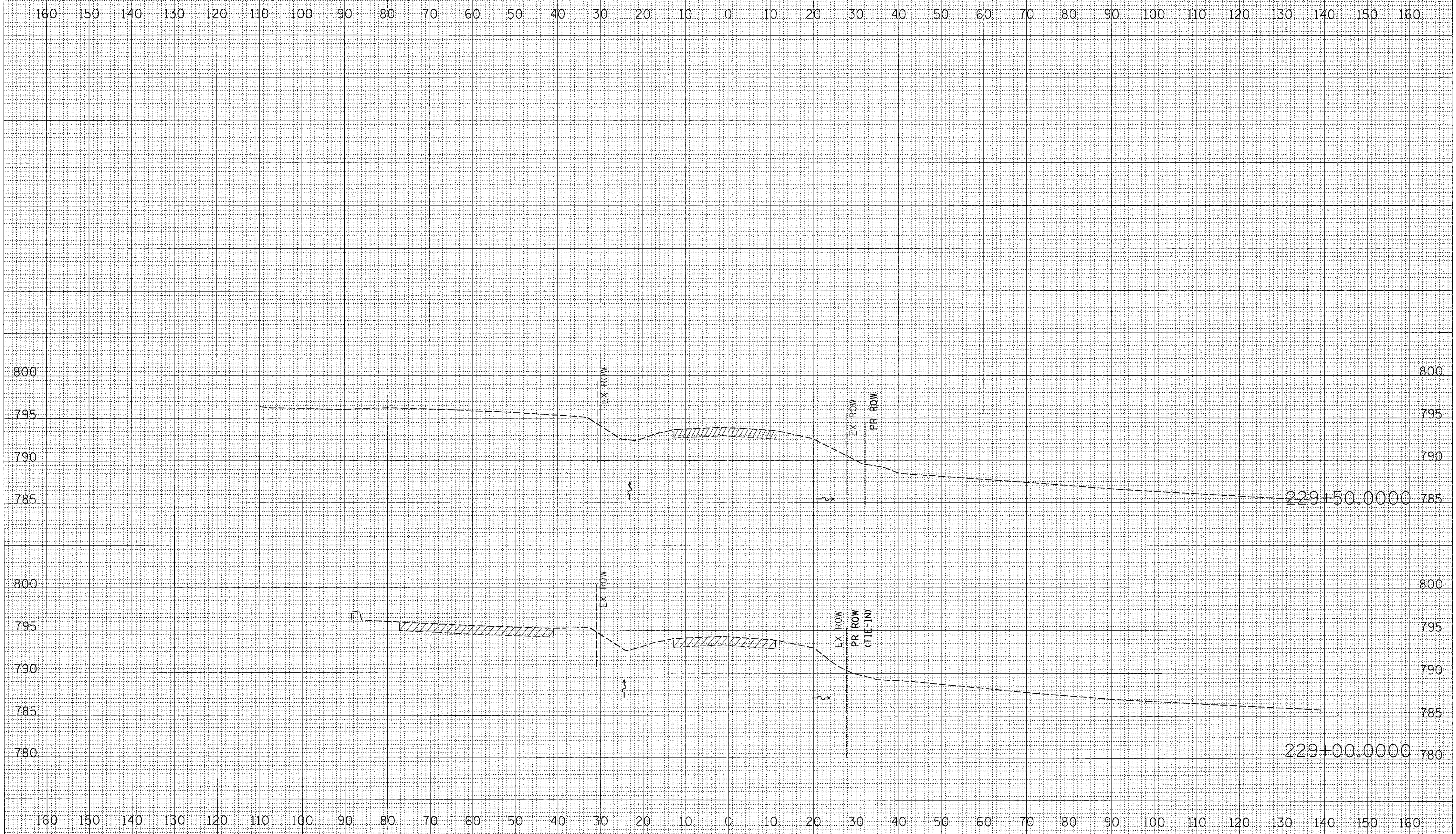
CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	77
STA. 229+00.0000 TO STA. 229+50.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.___	PLOTTED		
	TEMPLATE		
	AREAS		
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PLOT DATE = Fri Dec 08 11:01:17 2006
FILE NAME = c:\projects\p200106\s00106xs1.dgn
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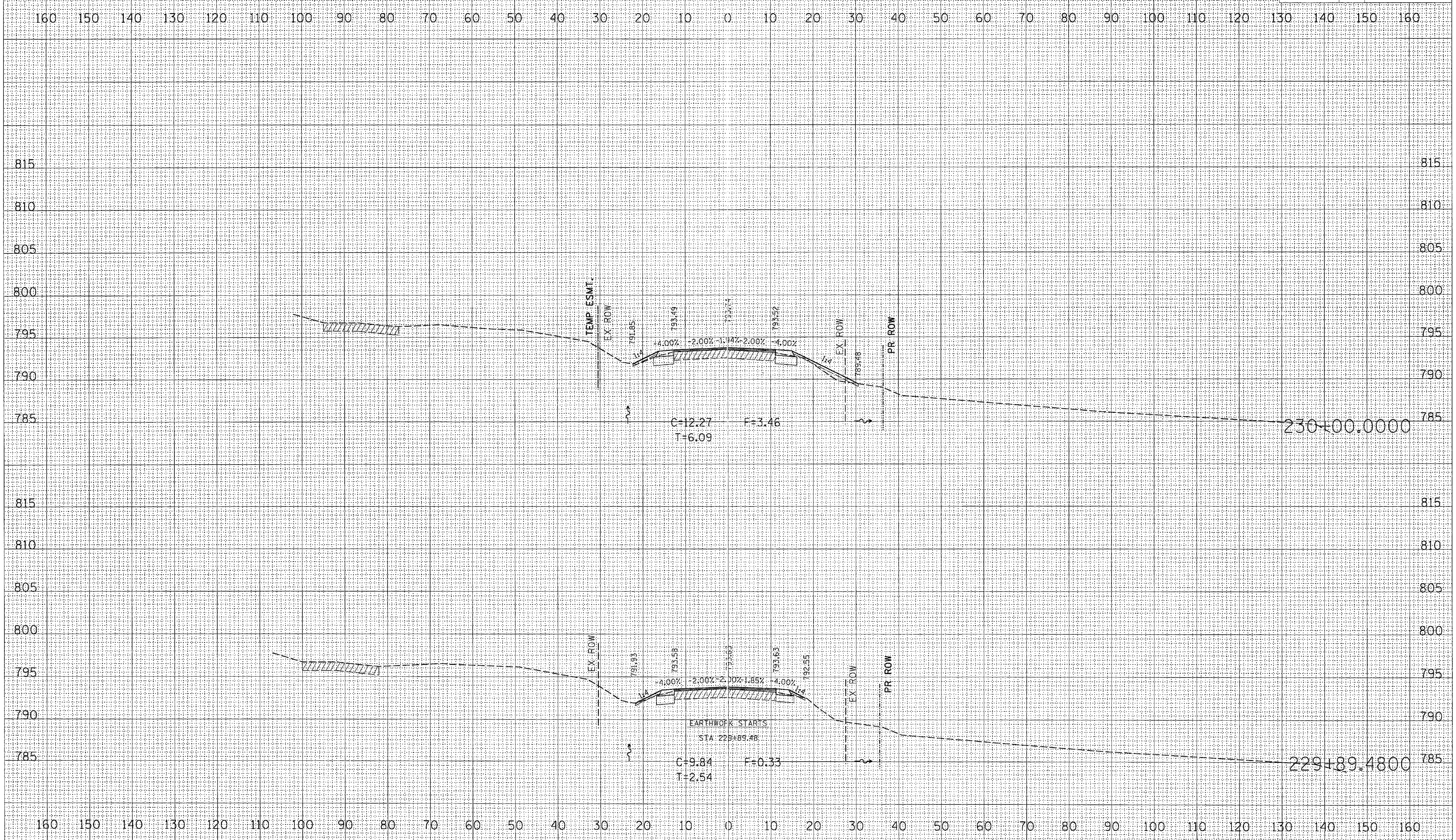
USER NAME = polzinej

SQUAW PRAIRIE ROAD - WEST

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	78
STA. 229+89.4800 TO STA. 230+00.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



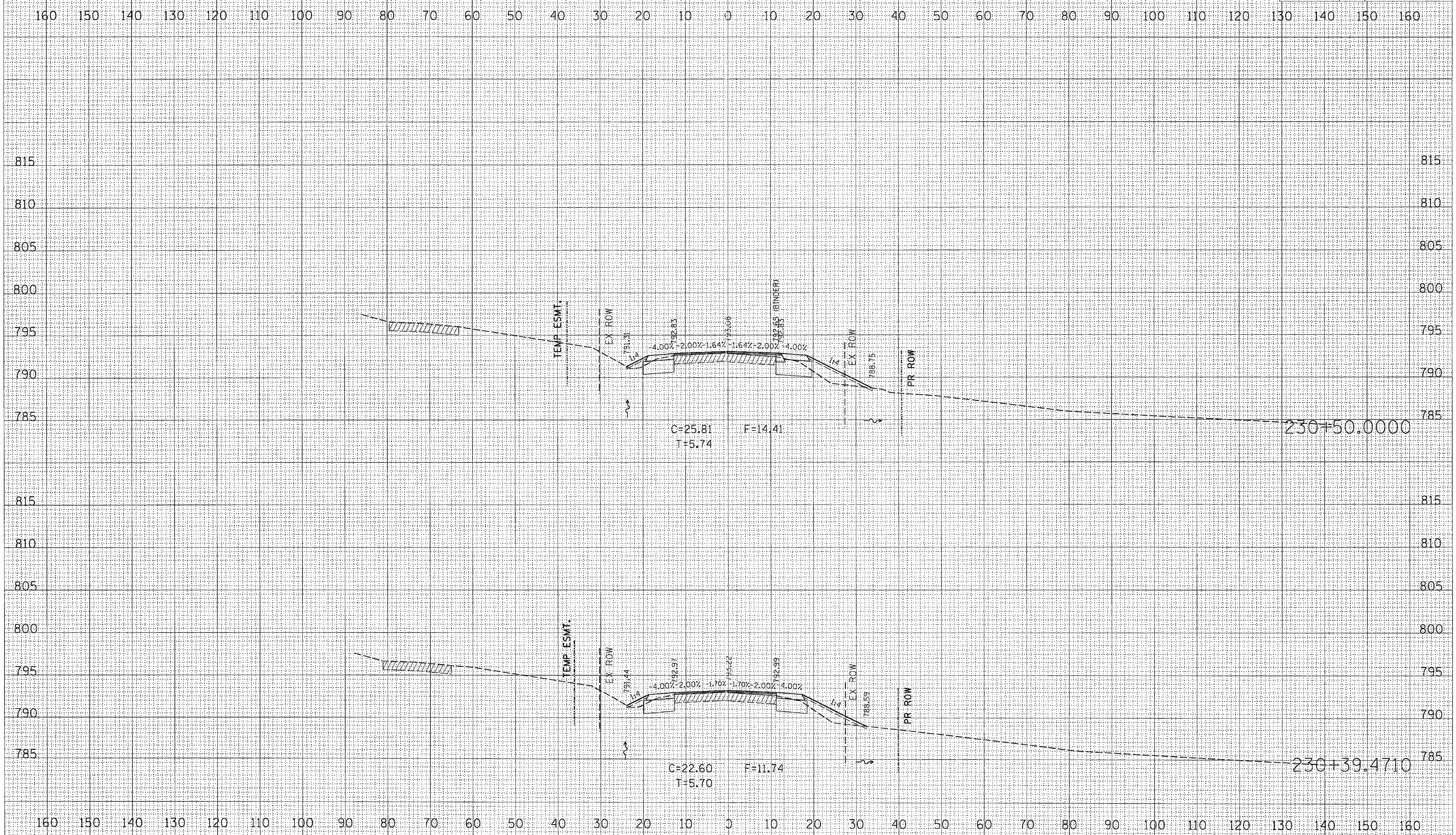
SQUAW PRAIRIE ROAD - WEST

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	79
STA. 230+39.4710 TO STA. 230+50.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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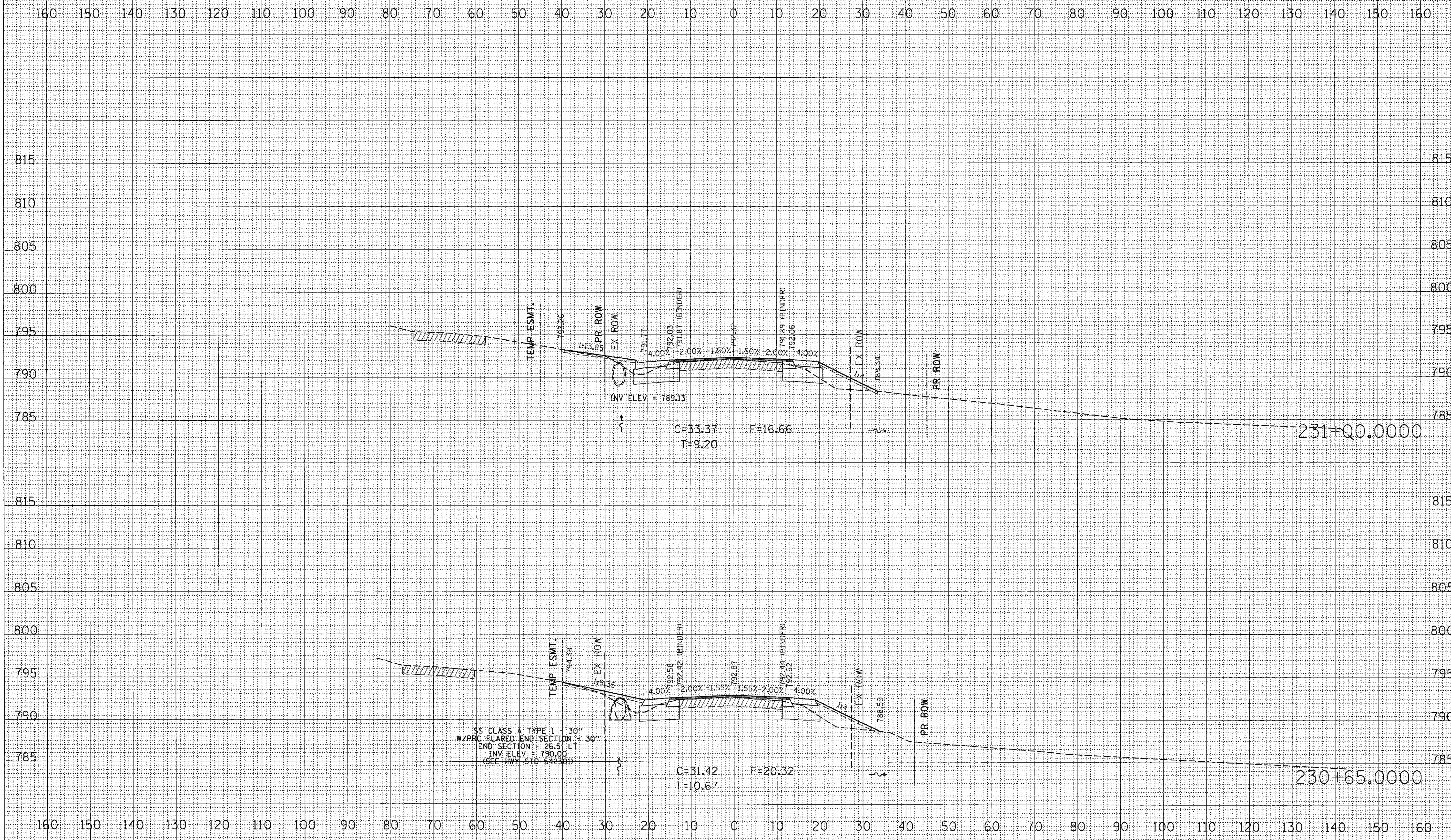
USER NAME = polzineJ

SQUAW PRAIRIE ROAD - WEST

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	80
STA. 230+65.0000 TO STA. 231+00.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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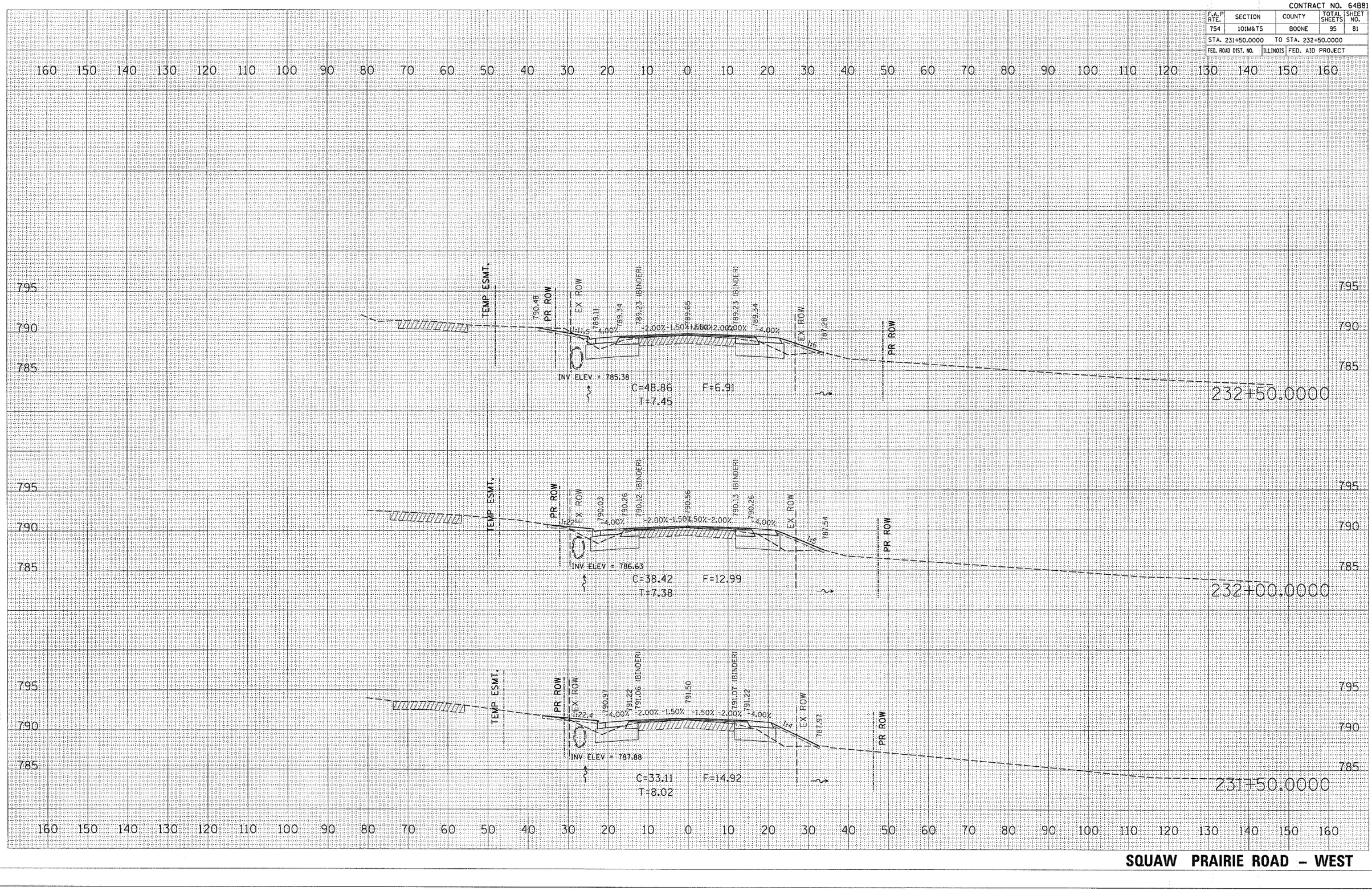
SQUAW PRAIRIE ROAD - WEST

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	81
STA. 231+50.0000		TO STA. 232+50.0000		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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



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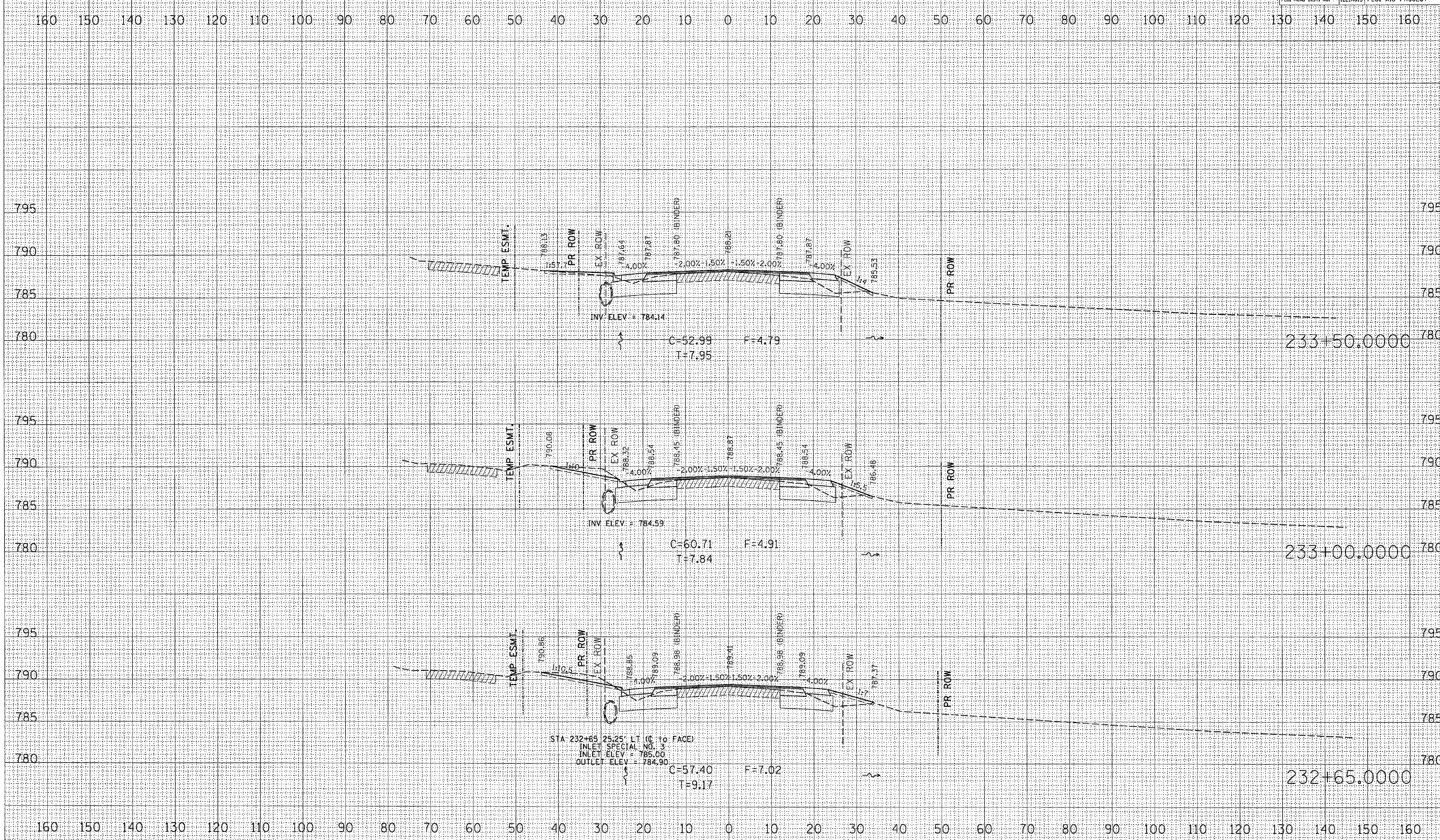
ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK	TEMPLATE	
	AREAS	
NO.	AREAS CHECKED	

SQUAW PRAIRIE ROAD – WEST

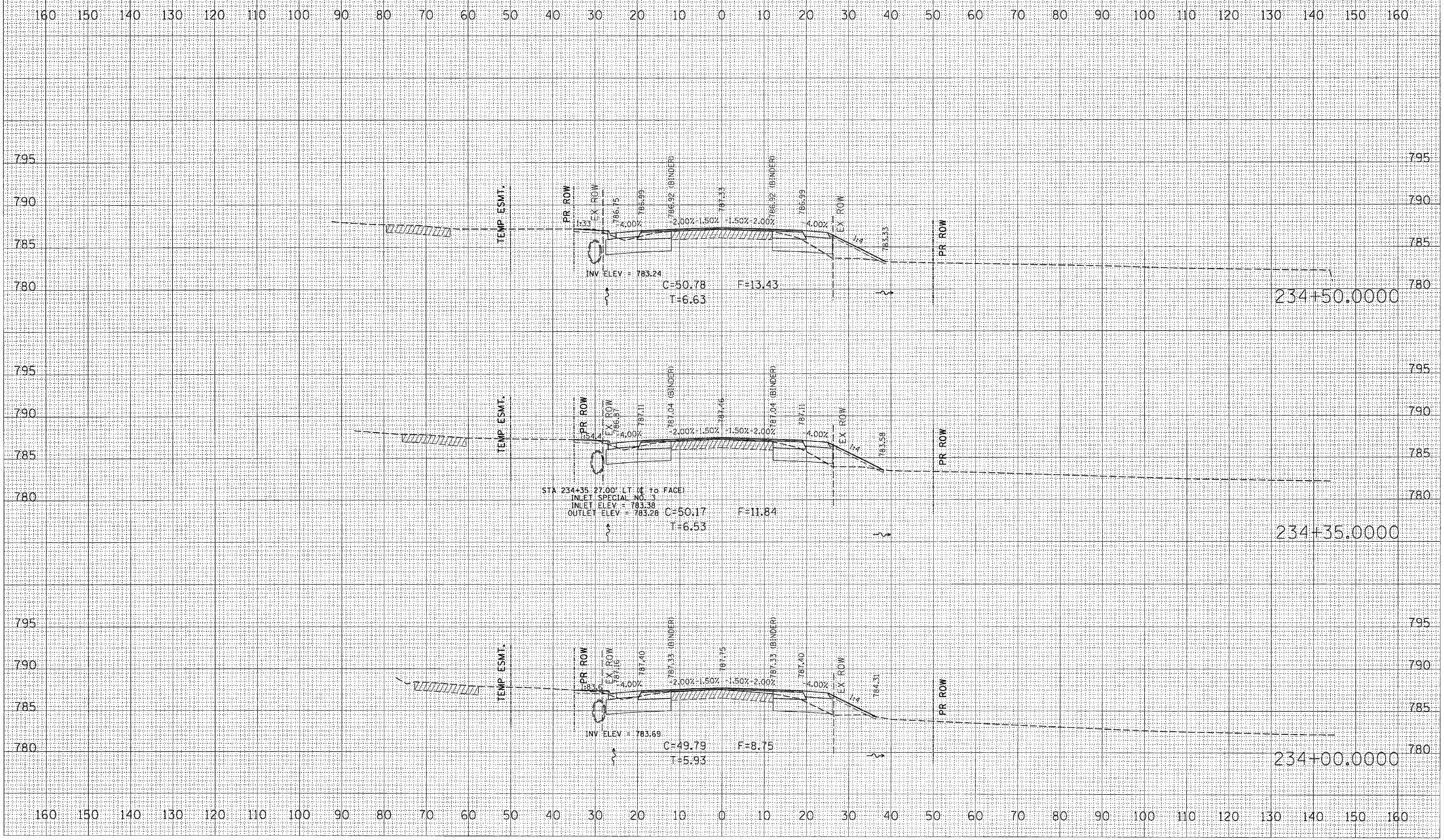
CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	82
STA. 232+65.0000 TO STA. 233+50.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	83
STA. 234+00.0000 TO STA. 234+50.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



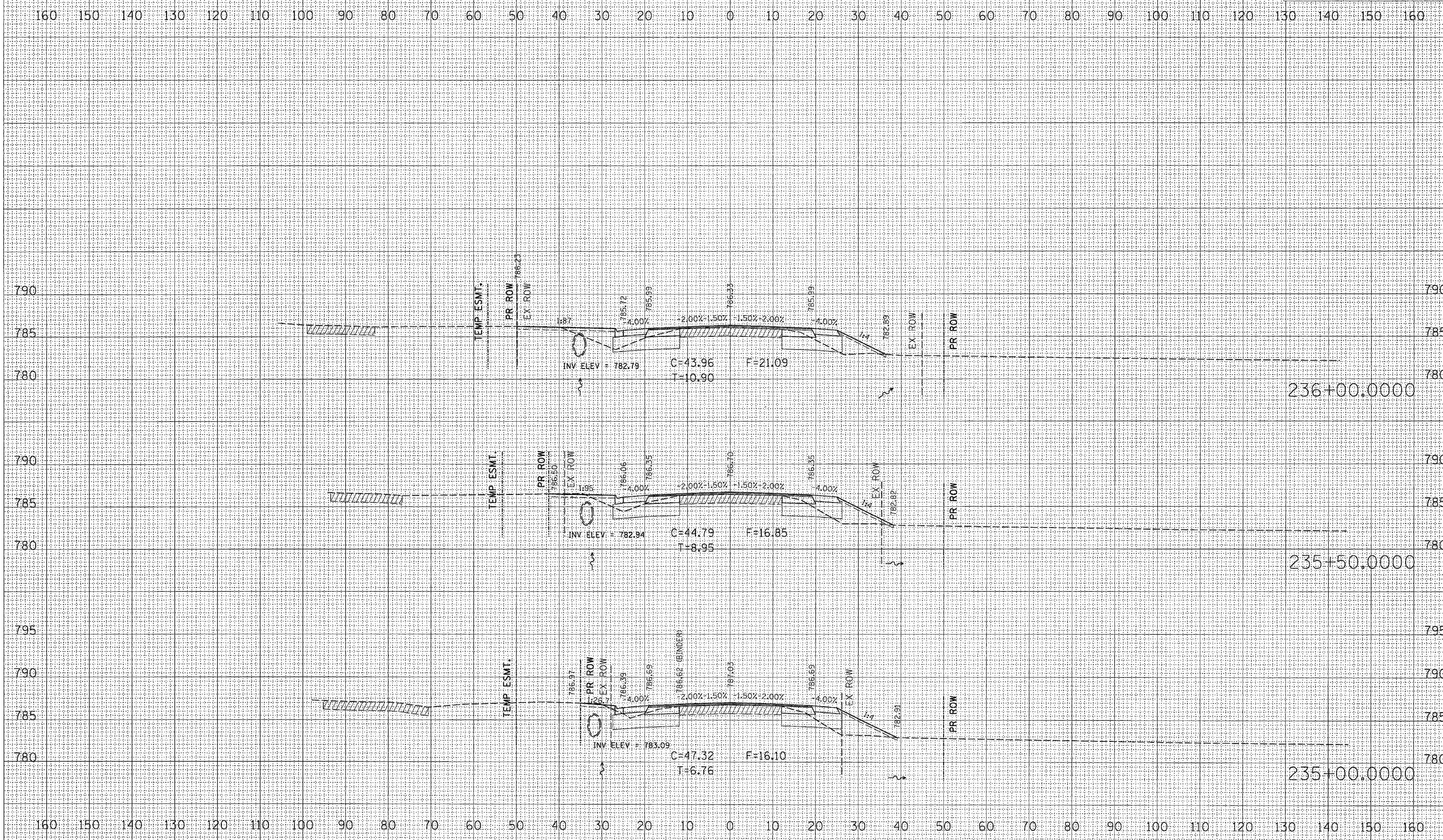
SQUAW PRAIRIE ROAD – WEST

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	84

STA. 235+00.0000 TO STA. 236+00.0000

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



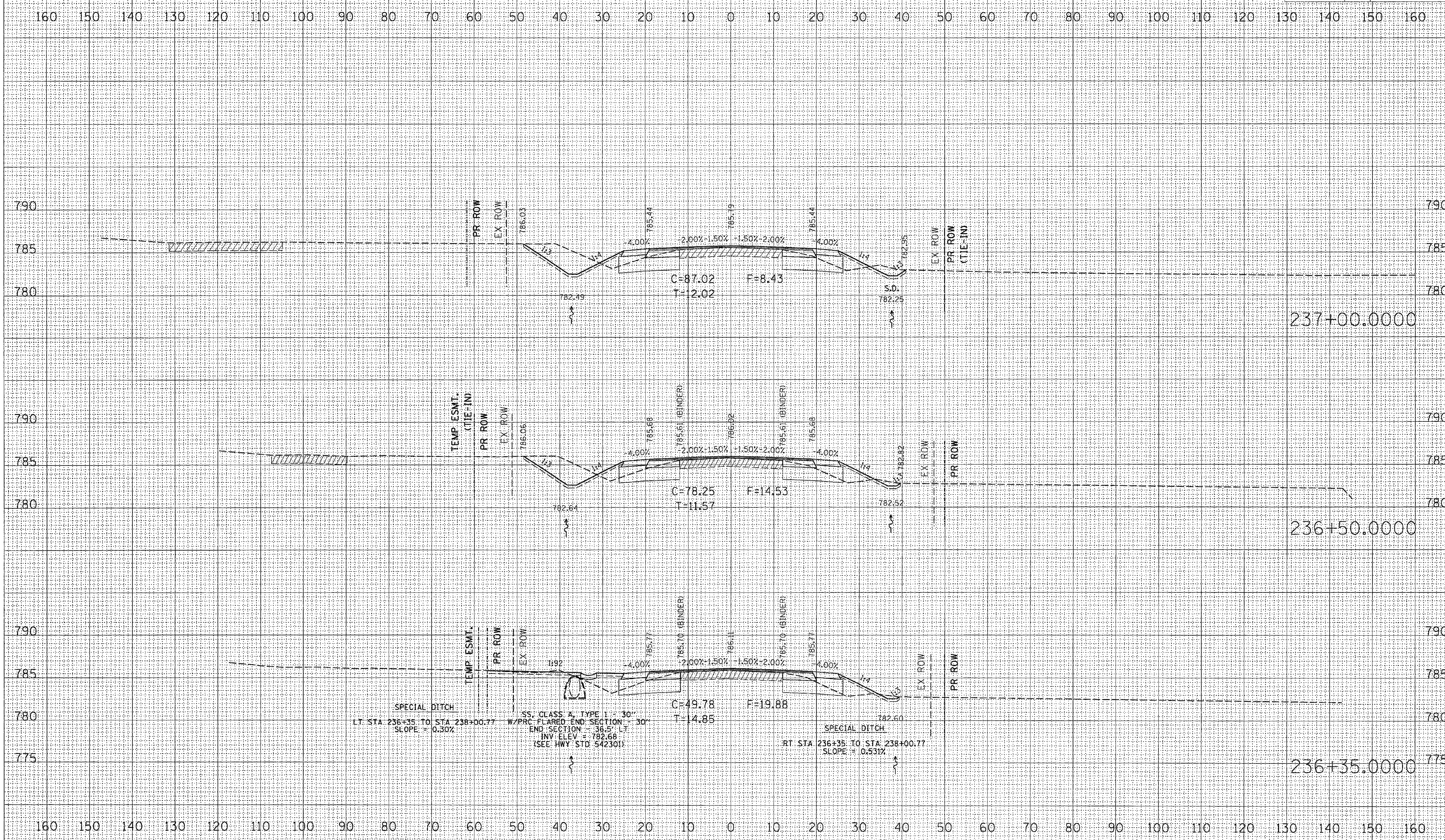
SQUAW PRAIRIE ROAD - WEST

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	85

STA. 236+35.0000 TO STA. 237+00.0000

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



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

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

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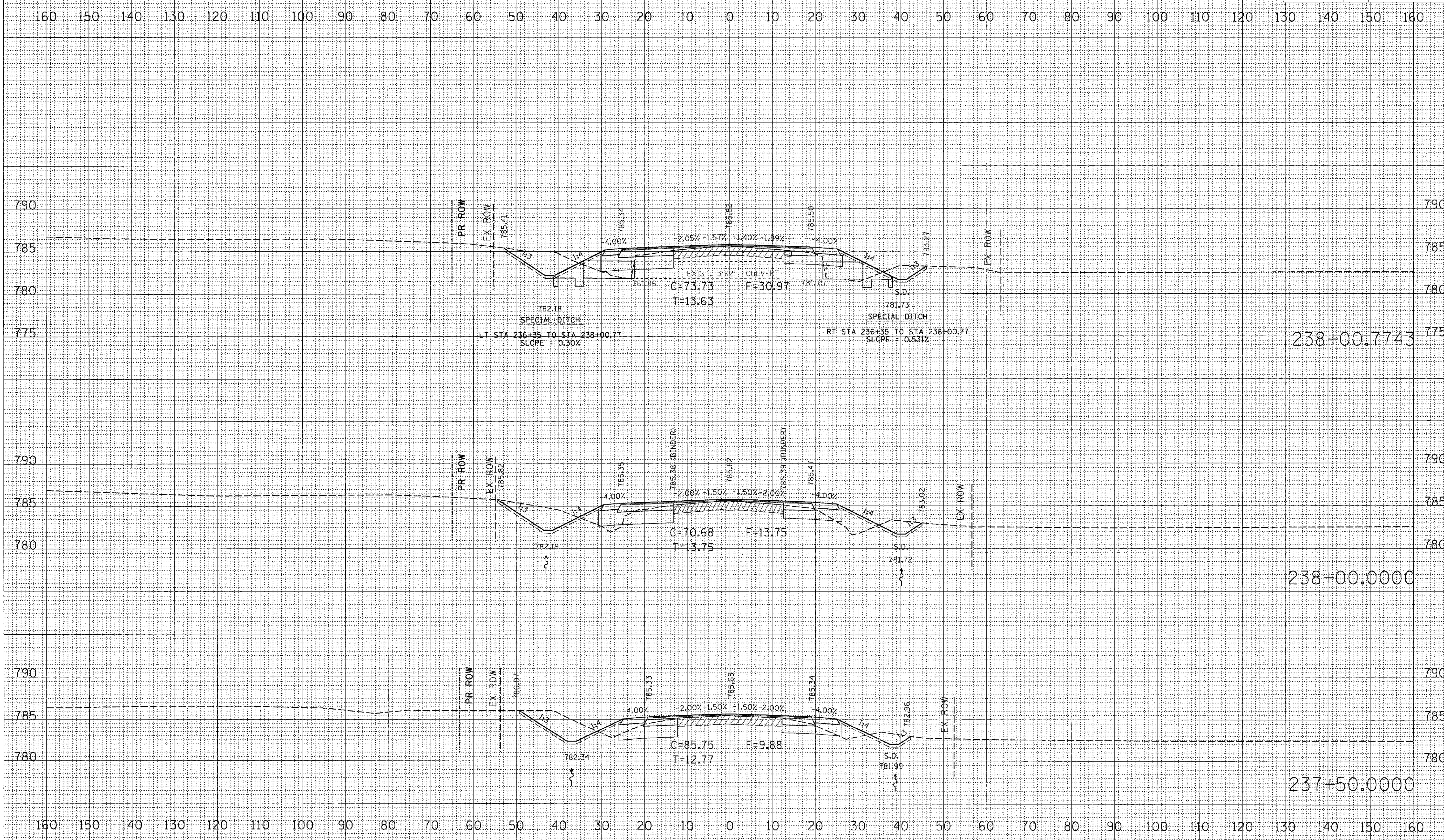
USER NAME = polzinej

SQUAW PRAIRIE ROAD – WEST

			CONTRACT NO. 64B81	
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	86
STA. 237+50.0000 TO STA. 238+00.7743				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



238+00.7743
PR ROW
EX ROW
785.41
785.34
785.82
785.50
783.27
-4.00%
-2.05% -1.57% -1.40% -1.89%
-4.00%
EXIST. 3'X2' CULVERT
781.86
781.75
C=73.73
F=30.97
T=13.63
782.18
SPECIAL DITCH
LT STA 236+35 TO STA 238+00.77
SLOPE = 0.30%
S.D.
781.73
SPECIAL DITCH
RT STA 236+35 TO STA 238+00.77
SLOPE = 0.531%
238+00.0000
785.82
785.35
785.38 (BINDER)
785.62
785.39 (BINDER)
785.47
783.02
4.00%
-2.00% -1.50% -1.50% -2.00%
-4.00%
C=70.68
F=13.75
T=13.75
782.19
S.D.
781.72
237+50.0000
786.07
785.33
785.68
785.34
782.36
-4.00%
-2.00% -1.50% -1.50% -2.00%
-4.00%
C=85.75
F=9.88
T=12.77
782.34
S.D.
781.99

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

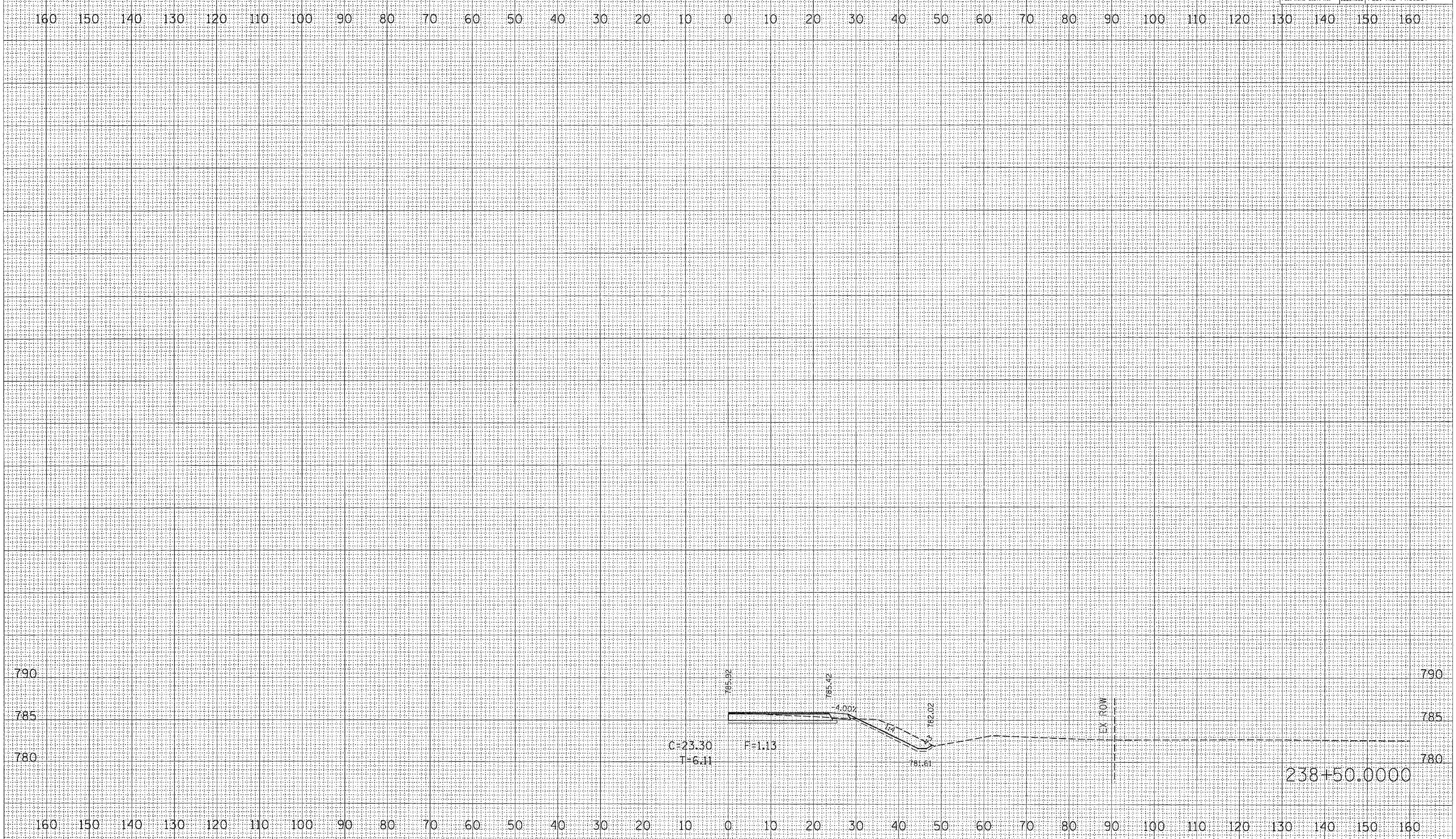
ORIGINAL SURVEY: NOTE BOOK NO. / SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED / BY / DATE

PLOT DATE = Fri Dec 08 11:01:21 2006
PLOT SCALE = 10.0000 ' / IN.

SQUAW PRAIRIE ROAD - WEST

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	87
STA. 238+50.0000 TO STA. 238+50.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

PLOT DATE = Fri Dec 08 11:01:21 2006
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PLOT SCALE = 10.0000 ' / IN.
USER NAME = polzinej

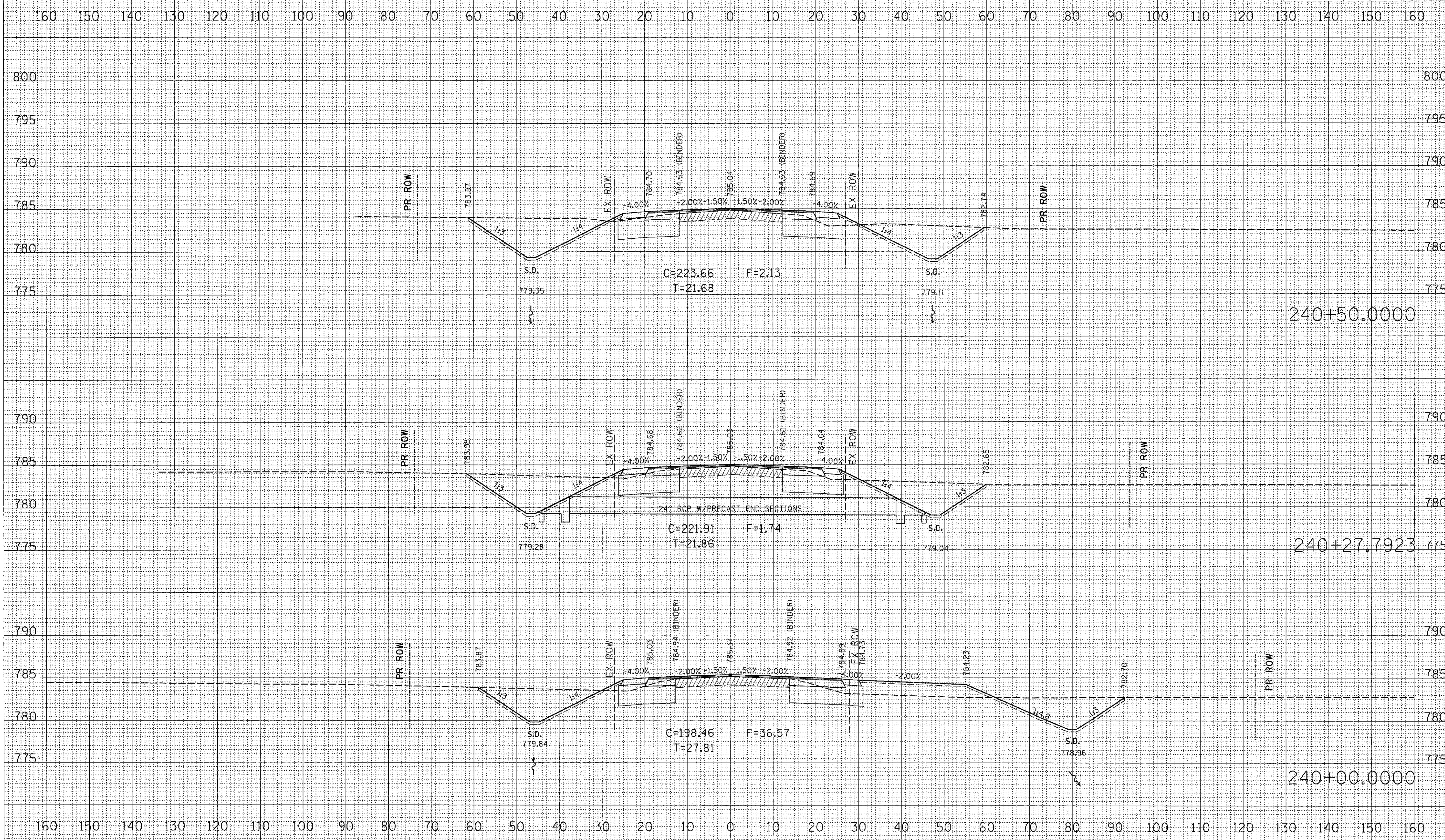
SQUAW PRAIRIE ROAD - WEST

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	88

STA. 240+00.0000 TO STA. 240+50.0000

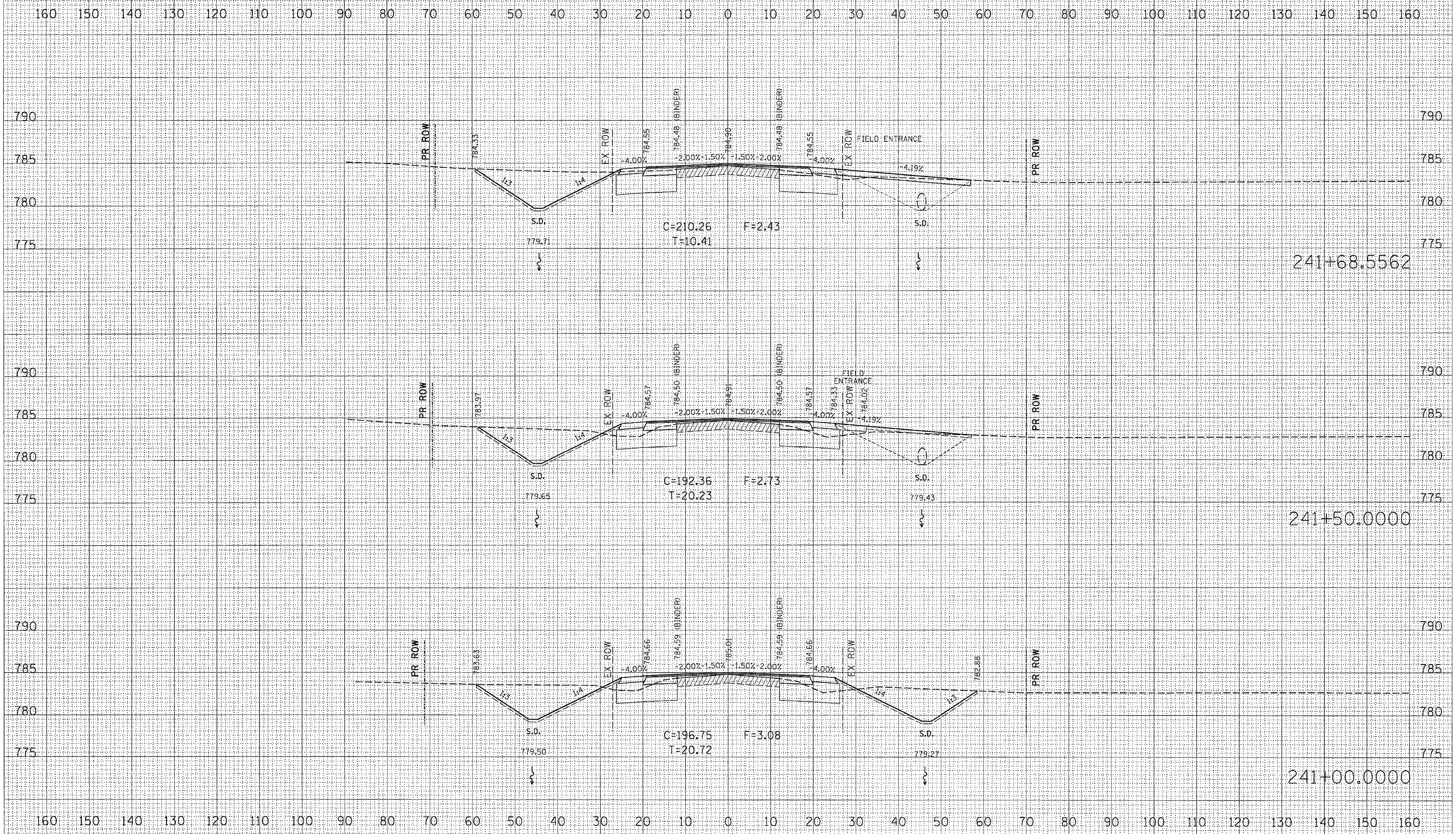
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



SQUAW PRAIRIE ROAD - EAST

CONTRACT NO. 64B81

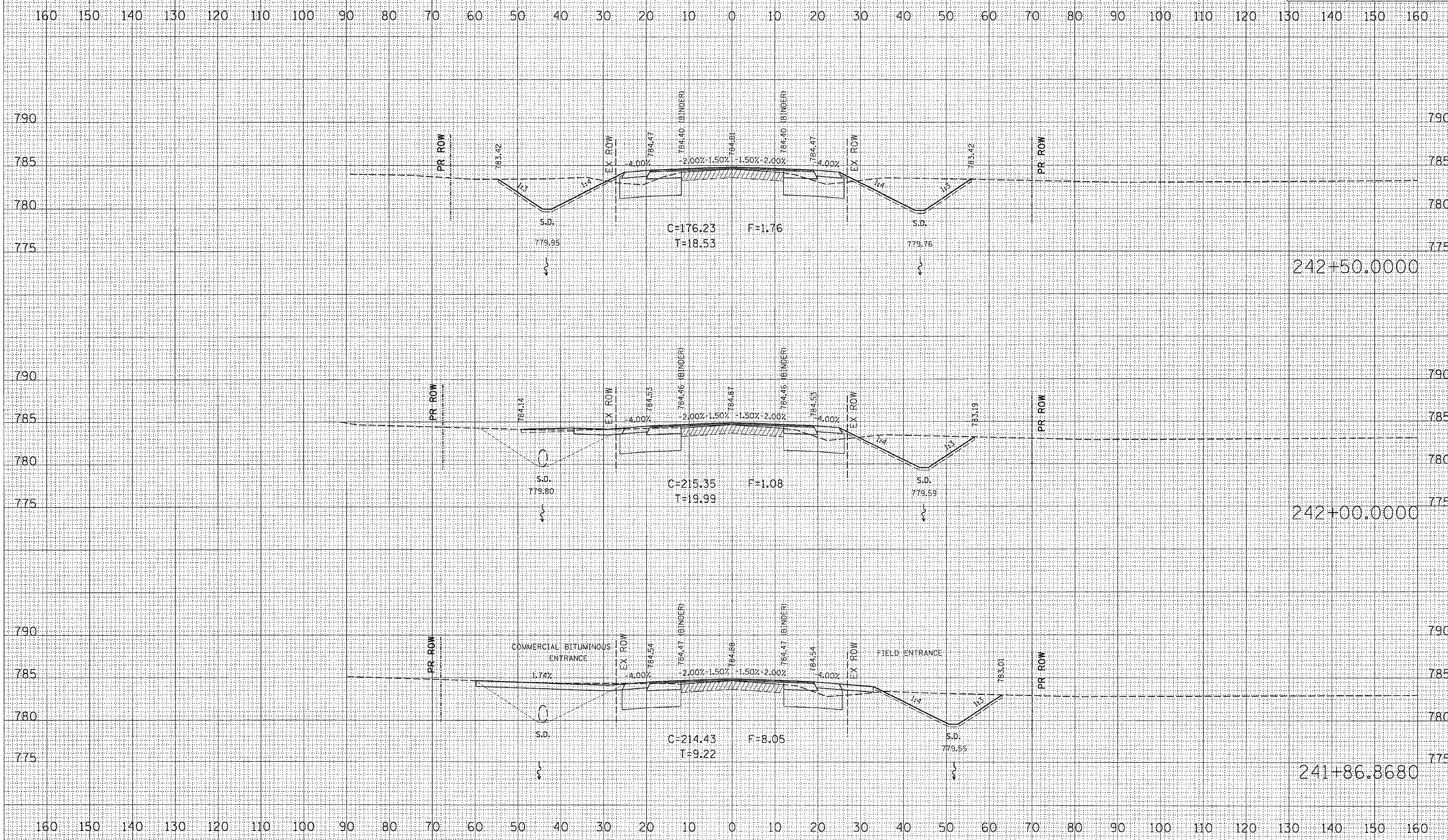
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	89
STA. 241+00.0000 TO STA. 241+68.5562				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SQUAW PRAIRIE ROAD – EAST

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	90
STA. 241+86.8680 TO STA. 242+50.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

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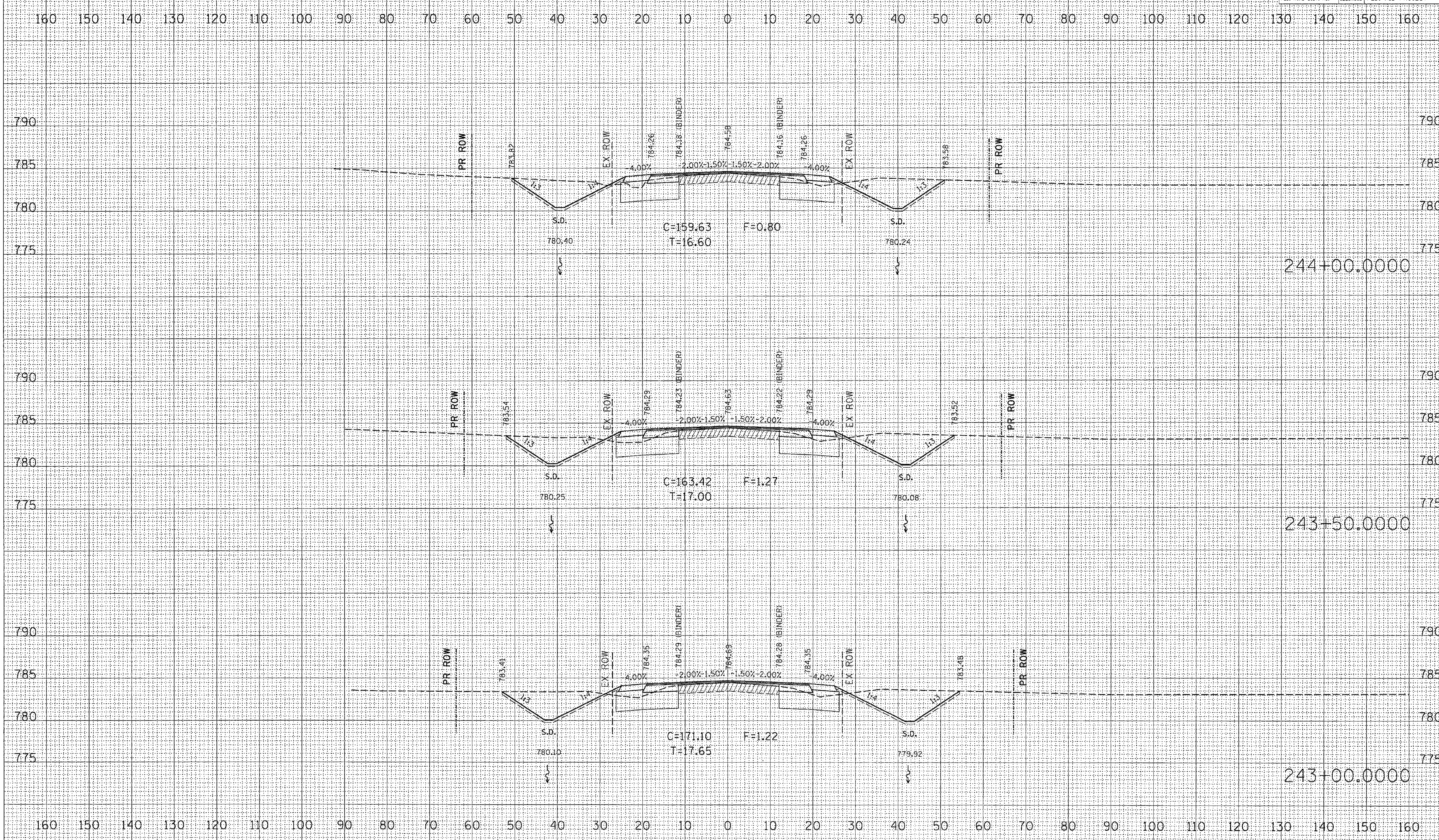
SQUAW PRAIRIE ROAD – EAST

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	91

STA. 243+00.0000 TO STA. 244+00.0000

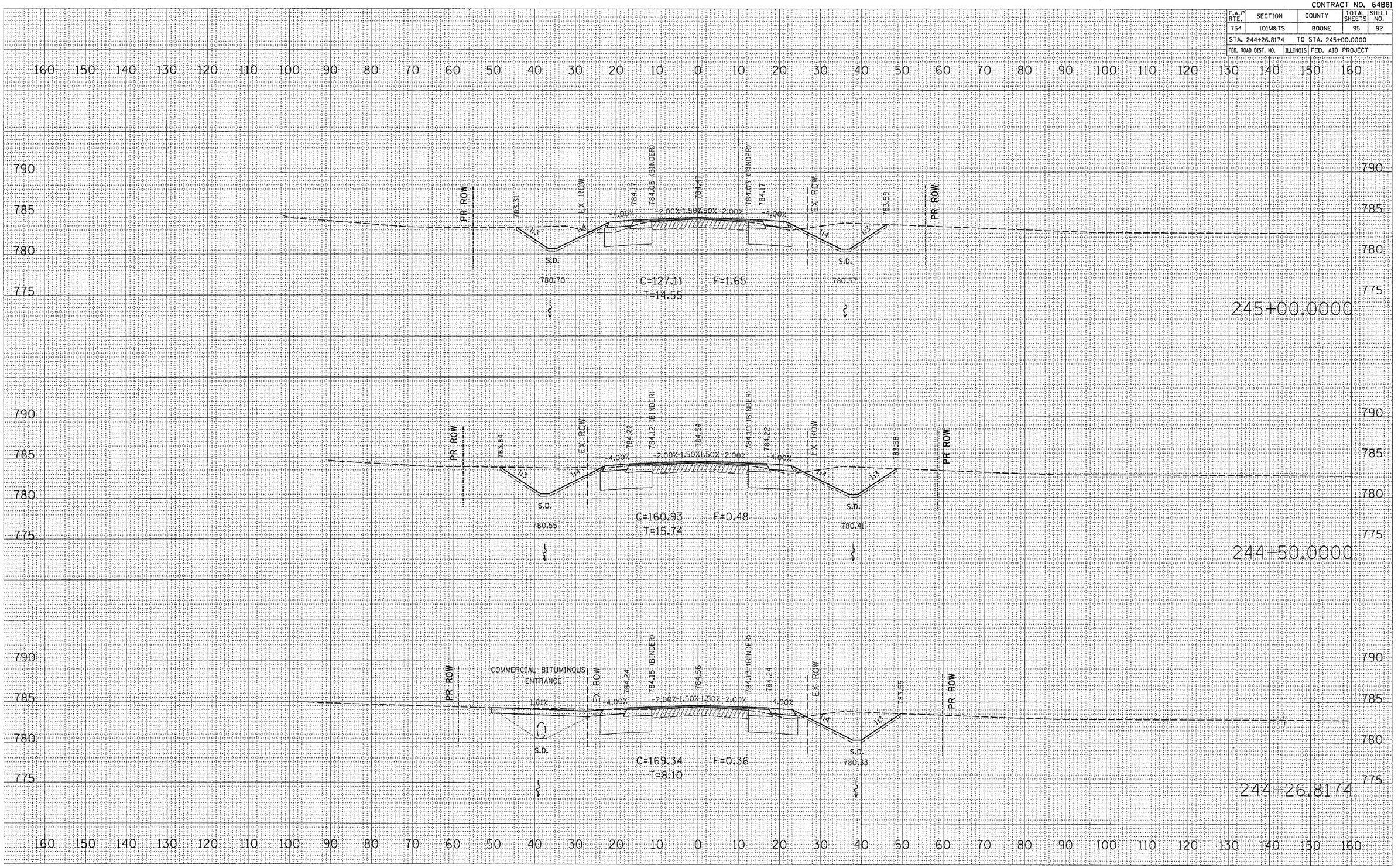
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



SQUAW PRAIRIE ROAD - EAST

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	92
STA. 244+26.8174		TO STA. 245+00.0000		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SQUAW PRAIRIE ROAD – EAST

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

PLOT DATE = Fri Dec 08 11:21:22 2006
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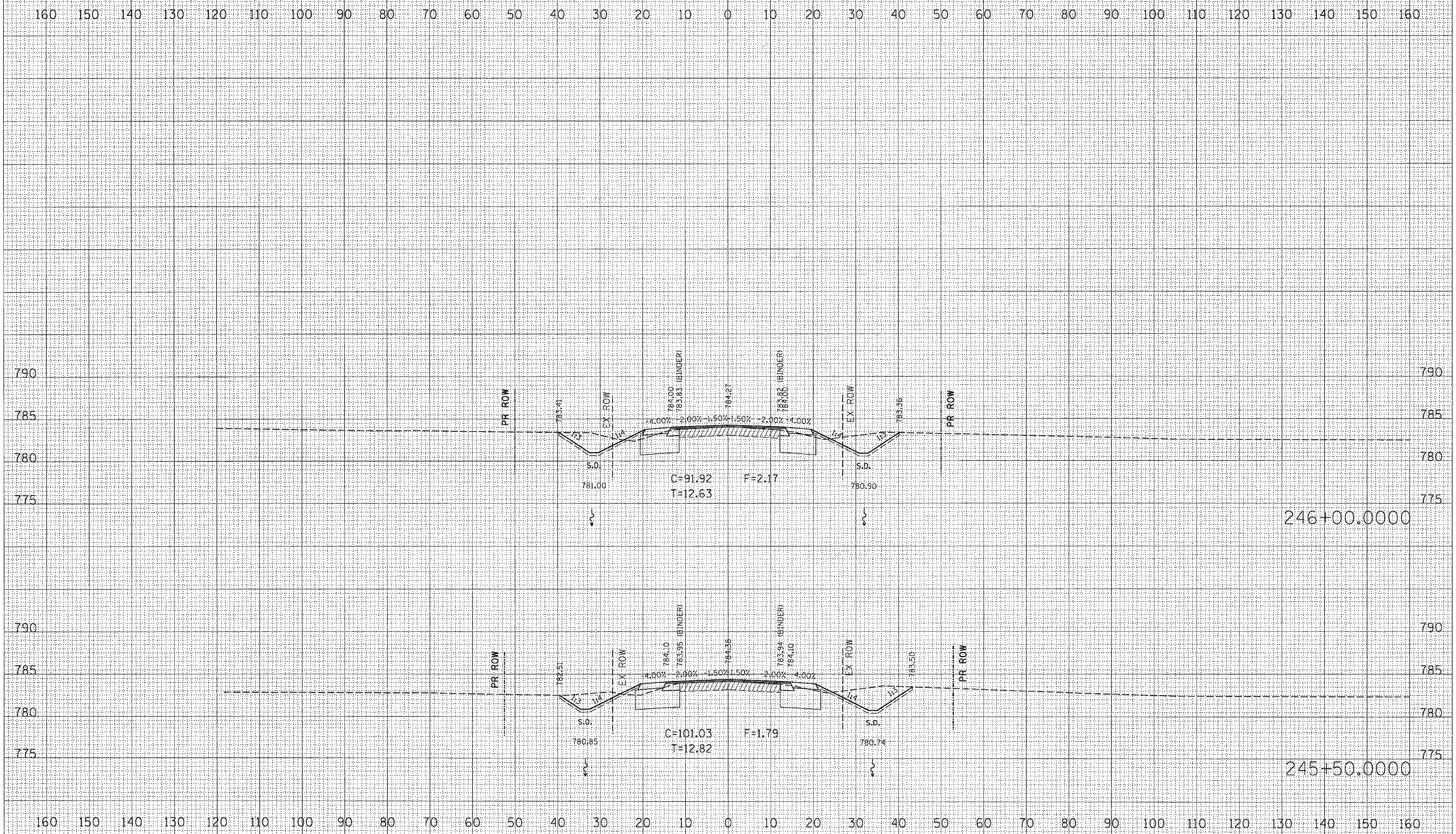
CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	93

STA. 245+50.0000 TO STA. 246+00.0000

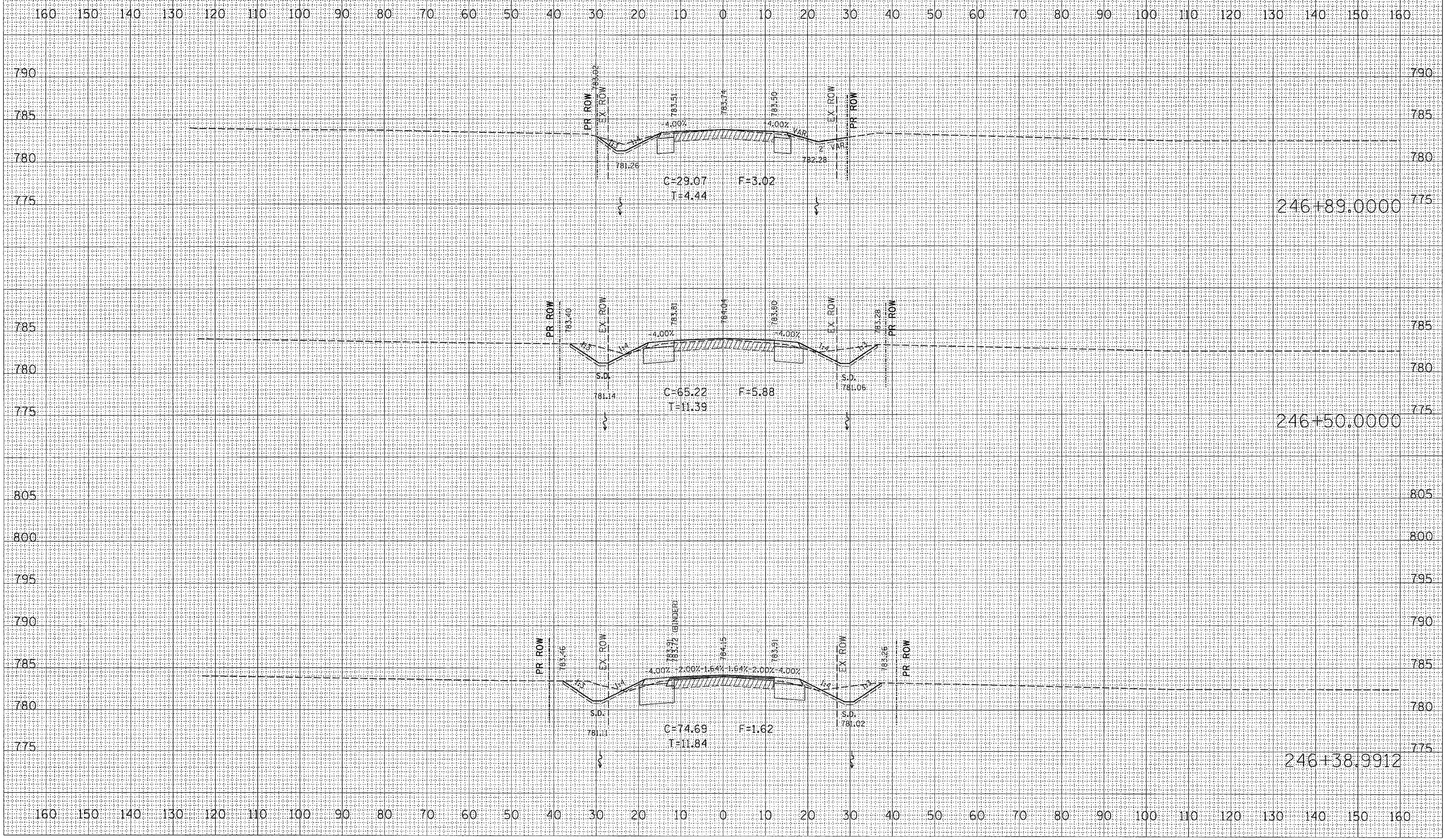
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



SQUAW PRAIRIE ROAD - EAST

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	94
STA. 246+38.9912 TO STA. 246+89.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

PLOT DATE = Fri Dec 08 11:01:24 2006
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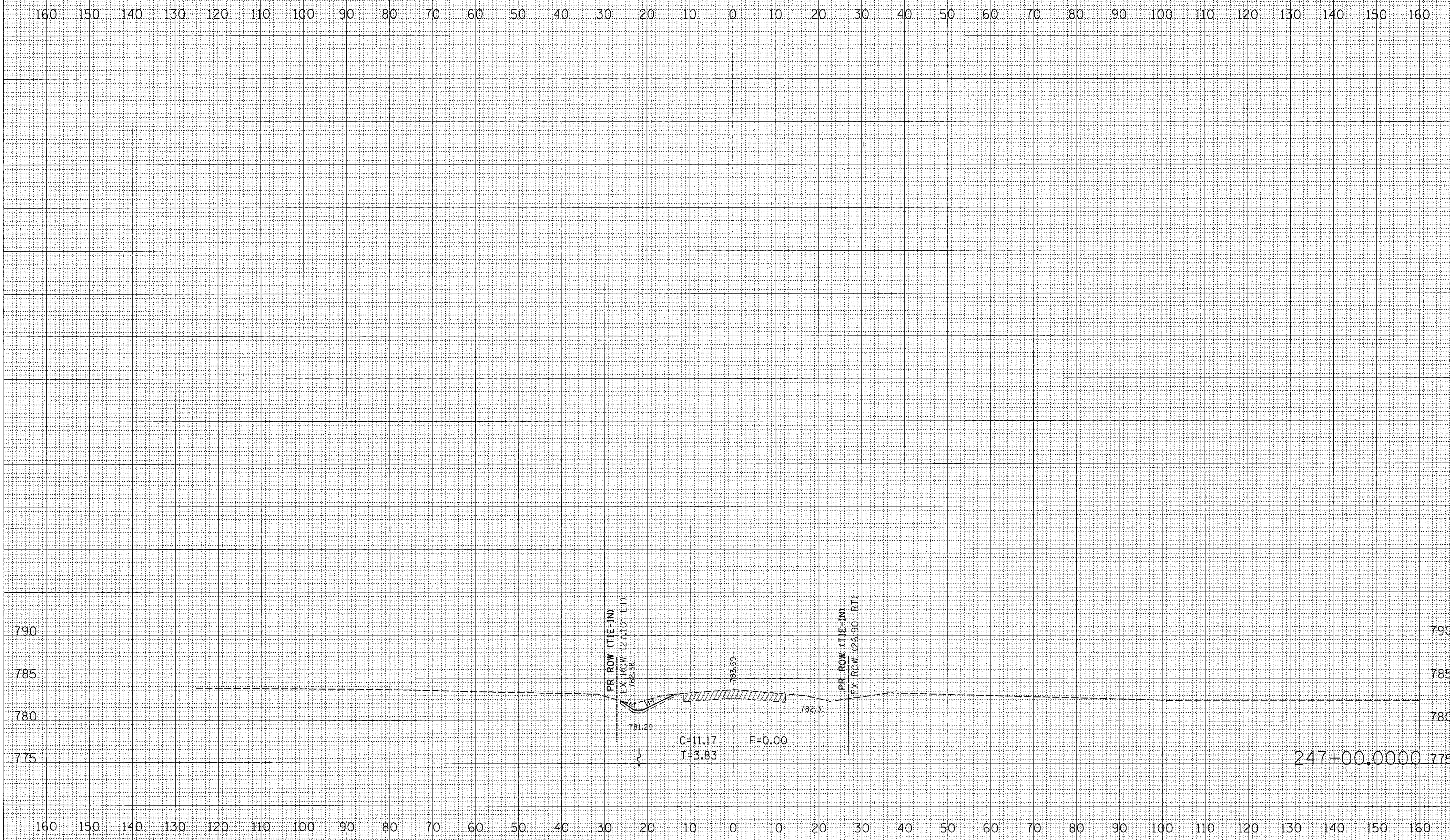
USER NAME = polzinej

SQUAW PRAIRIE ROAD – EAST

CONTRACT NO. 64B81

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
754	101M&TS	BOONE	95	95
STA. 247+00.0000 TO STA. 247+00.0000				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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USER NAME = polzinej

SQUAW PRAIRIE ROAD - EAST