

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*642	(10,11)T	JO DAVIESS	*283	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 64D07		
*IL RTE 78				

*283+1=284

D-92-047-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 642 (IL 78)
SECTION (10,11)T
PROJECT F-0642(047)
JO DAVIESS COUNTY
C-92-093-07

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

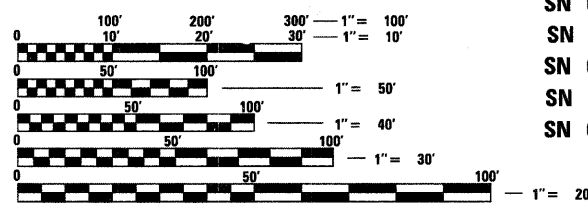


PROJECT ENGINEER: BOB WAGNER

PLEASANT VALLEY TOWNSHIP - SECTIONS: 3, 9, 10, 15, 16, 22, & 35
STOCKTON TOWNSHIP - SECTIONS: 23, 26, & 35

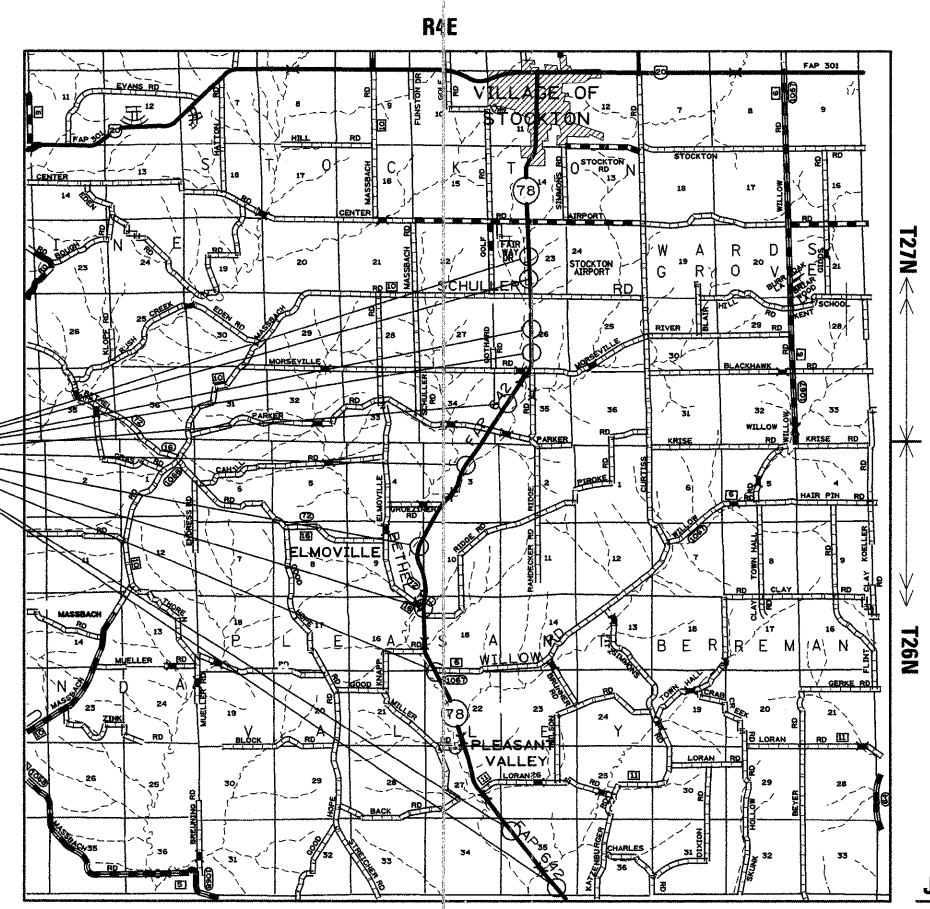
PROJECT LOCATIONS:

SN 043-1062	-	STA 4 + 86.61
SN 043-1063	-	STA 182 + 98.97
SN 043-1064	-	STA 278 + 24.12
SN 043-1065	-	STA 348 + 33.81
SN 043-1066	-	STA 404 + 70.72
SN 043-1067	-	STA 435 + 71.80
SN 043-1068	-	STA 448 + 28.40
SN 043-1069	-	STA 484 + 22.22
SN 043-1070	-	STA 501 + 14.74
SN 043-1078	-	STA 230 + 39.00
SN 043-1079	-	STA 336 + 17.63
SN 043-1082	-	STA 54 + 49.03



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

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



T27N
T26N

JO DAVIESS COUNTY
CARROLL COUNTY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED October 7, 20 08
Gregory F. Ryan
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 5, 20 08
Eric E. Horn
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

December 5, 20 08
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

CONTRACT NO. 64D07

NET LENGTH OF PROJECT = 9,593 LIN. FT = 1.82 MILE
GROSS LENGTH OF PROJECT = 50,221 LIN. FT = 9.51 MILES

SQUAD LEADER: CHAD SPREEMAN (815)-284-5934

INDEX OF SHEETS AND STATE STANDARDS

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STATE STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001-03	NAME PLATE FOR BRIDGES
542111-02	REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS, 1650 MM (66") THRU 2100 MM (84") DIAMETER AT RIGHT ANGLES WITH ROADWAY
542301-02	PRECAST REINFORCED CONCRETE FLARED END SECTION
542311-01	GRATING FOR CONCRETE FLARED END SECTION (FOR 600 MM (24") THRU 1300 MM (54") PIPE)
542401-01	METAL END SECTION FOR PIPE CULVERTS
602301-02	INLET, TYPE A
602406-03	MANHOLE, TYPE A, 1.8 M (6') DIAMETER
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS, TYPE 1
604036-02	GRATE, TYPE B
606101-04	TYPE A GUTTER (INLET, OUTLET, AND ENTRANCE)
630001-08	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
666001-01	RIGHT-OF-WAY MARKERS
667101-01	PERMANENT SURVEY MARKERS
701006-03	OFF-ROAD OPERATIONS 2L, 2W, 4.5 M (15') TO 600 MM (24") FROM PAVEMENT EDGE
701011-02	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-03	LANE CLOSURE 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701301-03	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701306-02	LANE CLOSURE 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701321-10	LANE CLOSURE 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-01	TRAFFIC CONTROL DEVICES
704001-05	TEMPORARY CONCRETE BARRIER
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS AND MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES		80% FED / 20% STATE		Y007 COUNTY	
CODE NUMBER	PAY ITEMS	UNIT	TOTAL QUANTITY	JO DAVIESS	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	297	297	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	555	555	
20100500	TREE REMOVAL, ACRES	ACRE	1.50	1.50	
20200100	EARTH EXCAVATION	CU YD	25,975	25,975	
20200200	ROCK EXCAVATION	CU YD	15	15	
21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	100	100	
* 25000100	SEEDING, CLASS 1	ACRE	0.25	0.25	
* 25000210	SEEDING, CLASS 2A	ACRE	7.25	7.25	
* 25000310	SEEDING, CLASS 4	ACRE	3.25	3.25	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	947	947	
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	947	947	
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	947	947	
* 25000750	MOWING	ACRE	7.50	7.50	
* 25100115	MULCH, METHOD 2	ACRE	10.50	10.50	
* 25100630	EROSION CONTROL BLANKET	SQ YD	18,710	18,710	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	8,422	8,422	
28000300	TEMPORARY DITCH CHECKS	EACH	97	97	
28000400	PERIMETER EROSION BARRIER	FOOT	6,363	6,363	
28000500	INLET AND PIPE PROTECTION	EACH	24	24	
28100107	STONE RIPRAP, CLASS A4	SQ YD	449	449	
28200200	FILTER FABRIC	SQ YD	533	533	
28500400	ARTICULATED BLOCK REVETMENT MAT	SQ YD	83	83	
31100910	SUB-BASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	962	962	
35101400	AGGREGATE BASE COURSE, TYPE B	TON	2,190	2,190	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	449	449	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	428	428	
44002600	GUTTER OUTLET REMOVAL	FOOT	202	202	
44201383	CLASS C PATCHES, TYPE IV, 12 INCH	SQ YD	852	852	
48100100	AGGREGATE SHOULDERS, TYPE A	TON	3,420	3,420	
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	4,013	4,013	
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	1	
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	2	2	
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1	1	
50100600	REMOVAL OF EXISTING STRUCTURES NO. 4	EACH	1	1	

* SPECIALTY ITEM ■ NON-PARTICIPATING

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES				Y007	
CODE NUMBER	PAY ITEMS	UNIT	80% FED / 20% STATE		COUNTY
			TOTAL QUANTITY	JO DAVIESS	
50100700	REMOVAL OF EXISTING STRUCTURES NO. 5	EACH	1	1	
50100800	REMOVAL OF EXISTING STRUCTURES NO. 6	EACH	1	1	
50800105	REINFORCEMENT BARS	POUND	8,120	8,120	
50800515	BAR SPLICERS	EACH	33	33	
51205200	TEMPORARY SHEET PILING	SQ FT	960	960	
51500100	NAME PLATES	EACH	10	10	
54003000	CONCRETE BOX CULVERTS	CU YD	51.9	51.9	
54010403	PRECAST CONCRETE BOX CULVERT 4' X 3'	FOOT	106	106	
542A0253	PIPE CULVERTS, CLASS A, TYPE 1 48"	FOOT	94	94	
542A1081	PIPE CULVERTS, CLASS A, TYPE 2 36"	FOOT	240	240	
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	44	44	
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	72	72	
542D0235	PIPE CULVERTS, CLASS D, TYPE 1 30"	FOOT	58	58	
542D5473	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 18"	FOOT	97	97	
542D5491	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 36"	FOOT	204	204	
54207597	PIPE CULVERTS, TYPE 1, REINFORCED CONCRETE - ARCH, EQUIVALENT ROUND-SIZE 42"	FOOT	54	54	
54207609	PIPE CULVERTS, TYPE 1, REINFORCED CONCRETE - ARCH, EQUIVALENT ROUND-SIZE 54"	FOOT	121	121	
54207615	PIPE CULVERTS, TYPE 1, REINFORCED CONCRETE - ARCH, EQUIVALENT ROUND-SIZE 60"	FOOT	96	96	
5421D012	PIPE CULVERTS, CLASS D, TYPE 1 12" (TEMPORARY)	FOOT	51	51	
5421D024	PIPE CULVERTS, CLASS D, TYPE 1 24" (TEMPORARY)	FOOT	18	18	
5421D030	PIPE CULVERTS, CLASS D, TYPE 1 30" (TEMPORARY)	FOOT	24	24	
5421D036	PIPE CULVERTS, CLASS D, TYPE 1 36" (TEMPORARY)	FOOT	20	20	
5421D042	PIPE CULVERTS, CLASS D, TYPE 1 42" (TEMPORARY)	FOOT	20	20	
54213447	END SECTIONS 12"	EACH	2	2	
54213450	END SECTIONS 15"	EACH	2	2	
54213453	END SECTIONS 18"	EACH	4	4	
54213465	END SECTIONS 30"	EACH	2	2	
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1	
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	1	1	
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	9	9	
54213693	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 48"	EACH	1	1	
54214293	END SECTIONS, EQUIVALENT ROUND-SIZE 18"	EACH	2	2	
54214947	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ARCH, EQUIVALENT ROUND-SIZE 42"	EACH	2	2	
54215472	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 72"	EACH	2	2	

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES				Y007 COUNTY	
CODE NUMBER	PAY ITEMS	UNIT	80% FED / 20% STATE		COUNTY
			TOTAL QUANTITY	JO DAVIESS	
54215484	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 84"	EACH	2	2	
54247190	GRATING FOR CONCRETE FLARED END SECTION 48"	EACH	1	1	
54390180	INSERTION CULVERT LINER 24"	FOOT	71	71	
54390210	INSERTION CULVERT LINER 30"	FOOT	82	82	
54390230	INSERTION CULVERT LINER 36"	FOOT	85	85	
54390330	INSERTION CULVERT LINER 72"	FOOT	105	105	
54390350	INSERTION CULVERT LINER 84"	FOOT	120	120	
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	2	2	
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	16.6	16.6	
60602500	CONCRETE GUTTER, TYPE A	FOOT	39	39	
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	5	5	
61140000	STORM SEWERS, SPECIAL 8"	FOOT	50	50	
61140100	STORM SEWERS, SPECIAL 10"	FOOT	30	30	
61140200	STORM SEWERS, SPECIAL 12"	FOOT	35	35	
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	1,462.5	1,462.5	
* 63000005	STEEL PLATE BEAM GUARD RAIL, TYPE B	FOOT	550	550	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	6	6	
63200310	GUARDRAIL REMOVAL	FOOT	2,550	2,550	
63500105	DELINEATORS	EACH	111	111	
66411900	TEMPORARY FENCE	FOOT	2,408	2,408	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	151	151	
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	13	13	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	7	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	20	20	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIP	EACH	6	6	
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	1,926	1,926	

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES				Y007 COUNTY	
CODE NUMBER	PAY ITEMS	UNIT	80% FED / 20% STATE		JO DAVIESS
			TOTAL	QUANTITY	
70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	19	19	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	679	679	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	325	325	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	275	275	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	68,058	68,058	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	43	43	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	6	6	
78300105	PAVEMENT MARKING REMOVAL	FOOT	834	834	
* A2006514	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	20	20	
* A2007814	TREE, TILIA AMERICANA (AMERICAN LINDEN/ BASSWOOD), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	20	20	
* C2001748	SHRUB, CORNUS SERICEA CARDINAL (CARDINAL REDOSIER DOGWOOD), 4" HEIGHT, BALLED AND BURLAPPED	EACH	49	49	
XX001135	PAVEMENT PATCHING SPECIAL	SQ YD	997	997	
X0323660	DROP BOX NO.1	EACH	1	1	
X0323661	DROP BOX NO.2	EACH	1	1	
X0323662	DROP BOX NO. 3	EACH	1	1	
X0323663	DROP BOX NO. 4	EACH	1	1	
X0323664	DROP BOX NO.5	EACH	1	1	
X0325519	DRAIN FOR AGGREGATE BASE COURSE	SQ YD	3	3	
X0325911	HOT-MIX ASPHALT SURFACE COURSE, SPECIAL	TON	129	129	
X7013015	TRAFFIC CONTROL FOR ROAD CLOSURE	L SUM	1	1	
Z0005400	BREAKER-RUN CRUSHED STONE	TON	391	391	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0023600	FILLING EXISTING CULVERTS	EACH	4	4	
Z0025500	FURNISHING AND INSTALLING PROPERTY MARKERS	EACH	5	5	
Z0028415	GEOTECHNICAL REINFORCEMENT	SQ YD	1,911	1,911	
Z0029001	GRATED CULVERT EXTENSION, NO. 1	EACH	2	2	
Z0029002	GRATED CULVERT EXTENSION, NO. 2	EACH	1	1	
Z0029003	GRATED CULVERT EXTENSION, NO. 3	EACH	1	1	
Z0029004	GRATED CULVERT EXTENSION, NO. 4	EACH	1	1	
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	3	3	
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1	1	
25100900	TURF REINFORCEMENT MAT	SQ YD	919	919	
X0326224	CORRUGATED STEEL PIPE MULTIPLE END SECTIONS EQUIVALENT DOUBLE ROUND-SIZE 36"	EACH	4	4	

* SPECIALTY ITEM

GENERAL NOTES

ROUTE NO	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 642 (IL 78)	(10,11)T	JoDaviess	283	7
FED ROAD DIST. NO.		ILLINOIS PROJECT		
Contract #64D07				

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.

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

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 proposed across road culverts and existing across road culverts that are removed shall conform to Section 502.10 of the Standard Specifications, except that the material shall conform to Article 208.02 of the Standard Specifications, and shall be compacted to a minimum of 95% of the standard laboratory density. Any material conforming to the requirements of Article 1003.04 or 1004.05 which has been excavated from the trenches shall be used for backfilling the trenches. 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.

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.

All embankment constructed of cohesive soil shall be constructed with not more than 110% of optimum moisture content, determined by the standard proctor test. Cohesive soil shall be defined as any soil which contains greater than 10% particles by weight passing the 75 µm (#200 sieve). The 110% of optimum moisture limit may be waived in free-draining granular material when approved by the Engineer.

Cost of removal and disposal of material from the temporary patch shall be included in PAVEMENT PATCHING, SPECIAL.

The existing hot-mix asphalt surface on private and commercial entrances shall be bladed off or milled and disposed of outside the project limits. This could be the entire entrance or tapered at the end depending on if the mainline is resurfaced or milled and resurfaced. The cost of the blading, milling, rolling, and disposal is included in the contract unit price for INCIDENTAL HOT-MIX ASPHALT SURFACING.

The drop off that occurs at entrance edges as a result of resurfacing of the entrance shall be corrected using aggregate shoulder material. This work shall be paid for by the TON for Aggregate Shoulders of the type specified in the plans.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Shoulders-Lower	Surface, Incidental and Shoulders-Top
PG:	PG 58-22	PG 58-22
Design Air Voids	2 @ N50	3 @ N50
Mixture Composition (Gradation Mixture)	BAM or IL 19.0	IL 9.5 or 12.5
Friction Aggregate	N/A	C
20 Year ESAL	N/A	N/A
Mix Unit Weight	112 lbs/sy/in	112 lbs/sy/in

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.

The area to be primed shall be limited to that which can be covered with HMA the same day, unless otherwise permitted by the Engineer.

Bituminous and Aggregate prime coat shall be placed in accordance with Section 406 of the Standard Specifications. The cost of the prime coats shall be included in the contract unit price per ton for INCIDENTAL HOT-MIX ASPHALT SURFACING OR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50.

The new number for the structure at Sta. 4+86.61 will be 043-1062
 The new number for the structure at Sta. 54+49.03 will be 043-1082
 The new number for the structure at Sta. 182+98.97 will be 043-1063
 The new number for the structure at Sta. 230+39.00 will be 043-1078
 The new number for the structure at Sta. 278+24.12 will be 043-1064
 The new number for the structure at Sta. 336+17.63 will be 043-1079
 The new number for the structure at Sta. 348+33.81 will be 043-1065
 The new number for the structure at Sta. 404+70.72 will be 043-1066
 The new number for the structure at Sta. 435+71.80 will be 043-1067
 The new number for the structure at Sta. 448+28.40 will be 043-1068
 The new number for the structure at Sta. 484+22.22 will be 043-1069
 The new number for the structure at Sta. 501+14.74 will be 043-1070

The review and approval of temporary sheet piling will require 4 to 6 weeks. The Contractor shall schedule his work accordingly.

The boring logs for this structure indicate that groundwater levels may encroach on the construction limits of this culvert. It shall be the responsibility of the contractor to control the ground water and divert the stream flow during construction in order to keep the construction area free of water. The method of controlling the water shall be subject to approval of the Engineer and the cost shall be included in the contract unit price for Precast Concrete Box Culverts.

Culvert & bridge flows must be maintained throughout the project. Normal flow shall be allowed to pass at the rate it enters the jobsite. High flows shall be allowed to pass without causing damage to upstream properties.

Box culverts that are stage constructed and undercut by more than 600 mm (2 feet) shall have lean concrete placed on the rock fill at the stage line. The concrete shall retain the rock fill until the second stage rock fill is placed. This work will be included in the pay item for the type of rock fill used.

A Precast Box Culvert at Sta. 4+86.61 is not an option on the project due to soil conditions.

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

GENERAL NOTES

ROUTE NO	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 642 (IL 78)	(10,11)T	JoDaviss	283	8
FED ROAD DIST. NO.		ILLINOIS PROJECT		
Contract #64D07				

The Contractor shall remove all entrance culverts in condition for reuse which are not to be left in place. They shall be cleaned and stored along the right of way as directed. In no case shall they be roughly handled or shoved by heavy machinery. Unusable material shall be disposed of by the Contractor at his expense. Cost of the work to be included in the contract unit price per Cubic Yard for EARTH EXCAVATION.

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

Connecting bands for corrugated metal pipes shall be metal and shall be coated with the same material as the pipe sections. The connecting bands shall be a minimum of 18" wide.

If, during the grinding or resurfacing operations, the existing mailboxes become a hindrance, the Contractor shall be required to carefully remove and reinstall the mailboxes as directed by the Engineer. This work shall be included in the contract unit price for the INCIDENTAL HOT-MIX ASPHALT SURFACING.

All proposed manholes on this project shall be cast in place or precast. This work will be paid for at the contract unit price Each for MANHOLE of the type and size specified.

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. See the Summary of Quantities for the estimated quantities.

Embankment quantities for the construction of the Traffic Barrier Terminals as shown in the plans are included in quantities for Earth Excavation.

The Contractor shall supply the Resident Engineer with the manufacturer's installation requirements for the type of Steel Plate Beam Guardrail Terminal Type 1 Special (Tangent).

One 16d galvanized nail shall be used to toe nail the wood block out to the wood post on all Traffic Barrier Terminal Type I Specials.

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: 12 Each.

Permanent Survey Markers, Type II shall be cast-in-place as shown on District Standard 66.2. The bottom of the marker shall be 5'-0" below the ground surface.

The Contractor shall submit to the Engineer a description of location, elevation, and coordinates for each permanent survey marker. The horizontal and vertical coordinates must be derived by GPS and the elevation derived by a closed level circuit. The Engineer shall submit this information to the Survey Crew.

Tree planting layout shall be performed by the District Landscape Architect. Mulch shall be placed 4" thick and to the diameter around the tree as shown on District Standard 92.1. The mulch shall be hardwood wood chips placed on weed barrier fabric. This work shall be included in the cost of the tree.

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

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:

BP Pipelines North America, Inc.
Verizon
Nicor Gas Co.

Commonwealth Edison Company
Jo-Carroll Energy
Gallatin River Communications

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.

Biological Commitments:

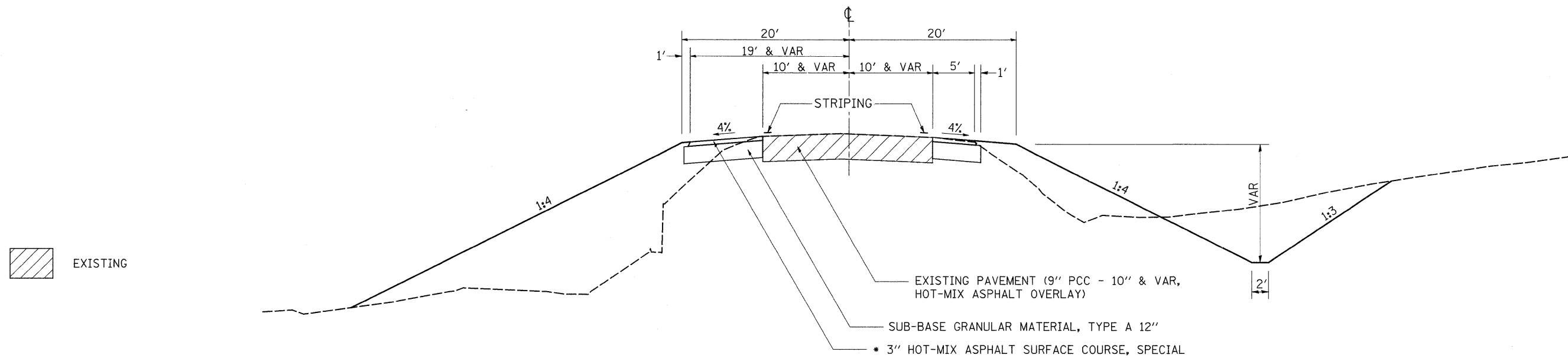
1. There are five regulatory wetlands in the project limits. These wetlands are located near the following stations:
Wetland #1 – Left Sta. 499+80 to 503+25
Wetland #2 – Right Sta. 477±00 to 484+00
Wetland #3 – Left Sta. 480+25 to 485+50
Wetland #4 – Right Sta. 435+00 to 436+75
Wetland #5 – Right Sta. 3+50 to 5+00
2. No construction activities, including equipment and material storage, driving vehicles and equipment shall take place beyond the construction limits shown on the contract plans in these areas so as to avoid further wetland impacts to the wetlands listed in the previous commitment.
3. The berm at Right Sta. 435±50 shall not be impacted during construction. Therefore, the wetland (Wetland #4) shall not be impacted by this construction project.
4. No construction activities, including equipment and material storage, driving vehicles and equipment shall take place beyond the construction limits shown on the plan and profile sheets and cross-sections to minimize tree removal.
5. The apple orchard on the Andersen property, Left Sta. 403±00 to 404±50 shall not be impacted.

TYPICAL SECTIONS

IL ROUTE 78

LT STA 2+50 - 10+00

RT STA 2+50 - 7+00



NOTES:

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

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 64D07								
PLOT DATE = Tue Sep 30 10:55:37 2008		DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

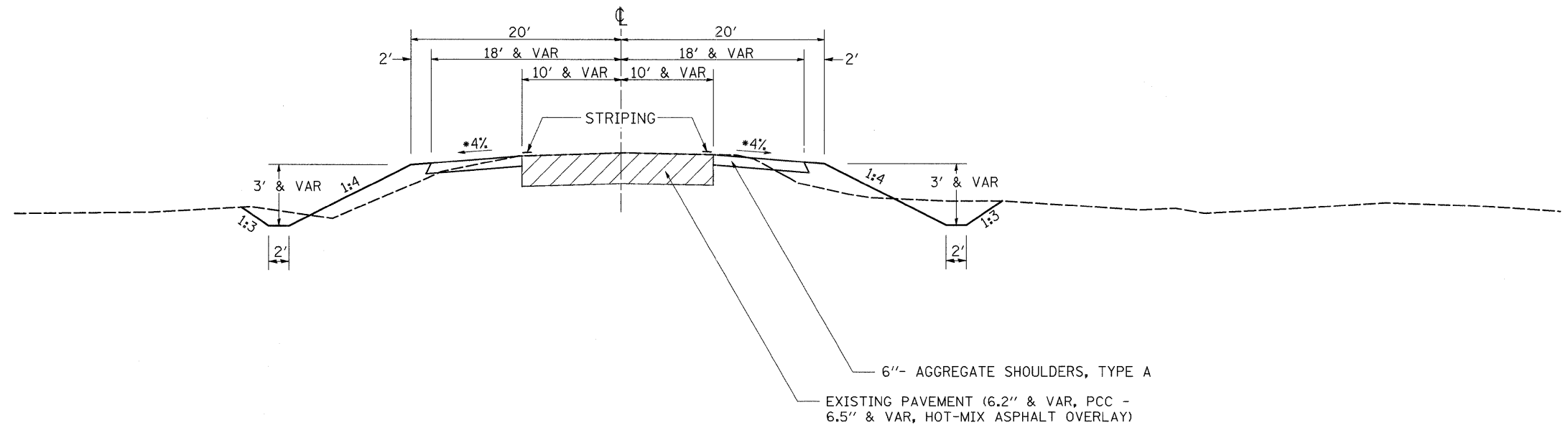
TYPICAL SECTIONS

IL ROUTE 78 - 18' SHOULDER

RT STA 178+00 - 186+00
 RT STA 225+00 - 231+50
 LT STA 226+50 - 231+50
 RT & LT STA 280+75 - 283+00
 LT STA 283+00 - 287+00
 RT STA 338+00 - 347+65
 RT & LT STA 347+65 - 349+50
 RT STA 401+50 - 403+00
 LT STA 403+00 - 408+00
 RT & LT STA 434+50 - 436+65
 RT STA 436+65 - 437+00
 LT STA 447+00 - 447+50
 LT STA 447+50 - 449+25
 RT & LT STA 482+00 - 485+50
 RT STA 485+50 - 486+00
 LT STA 498+50 - 503+50
 RT STA 500+70 - 502+87.5

IL ROUTE 78 - 20' SHOULDER

RT & LT STA 52+80 - 56+20
 LT STA 178+00 - 186+00
 RT STA 403+00 - 408+00
 RT STA 447+50 - 449+25
 LT STA 498+50 - 503+50



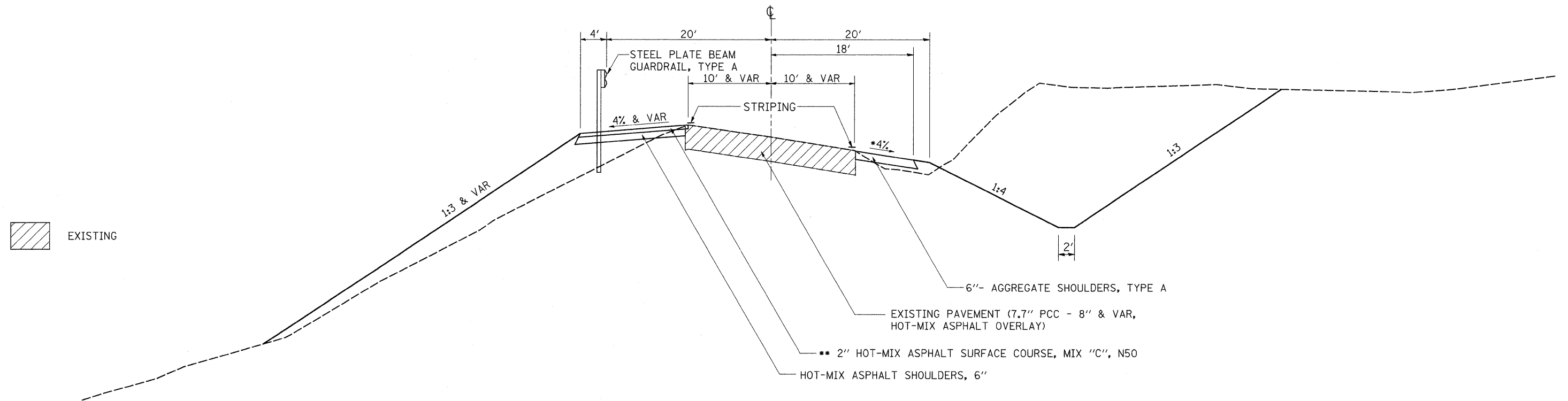
NOTES:
 * MATCH EXISTING MAINLINE SLOPE IN SUPER ELEVATED SECTIONS

FILE NAME =	USER NAME = hensanke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
PLOT SCALE = 50.0000' / IN.		PLOT DATE = Tue Sep 30 10:55:37 2008		SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.				

TYPICAL SECTIONS

IL ROUTE 78

STA 231+50 - 245+50
STA 274+00 - 280+75



NOTES:

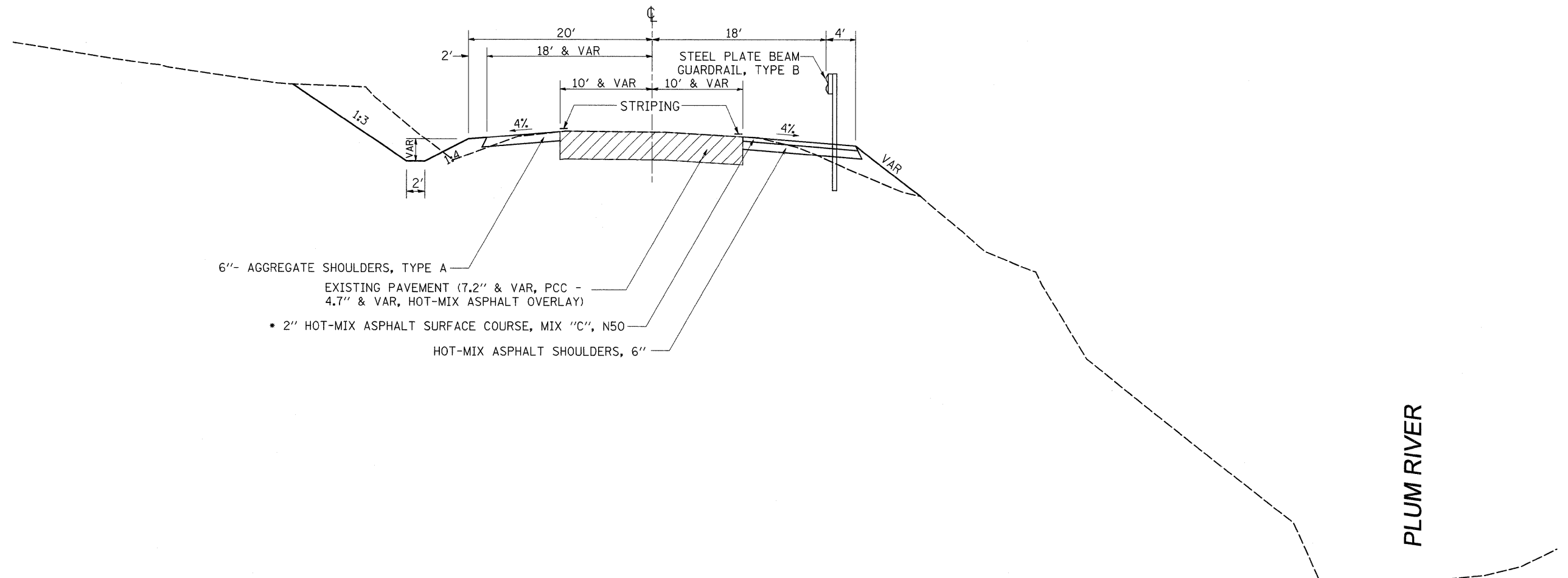
- * MATCH EXISTING MAINLINE SLOPE IN SUPER ELEVATED SECTIONS
- ** RATE OF APPLICATION = 112 LB/SQ YD/IN

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Tue Sep 30 10:55:38 2008		DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			


TYPICAL SECTIONS

IL ROUTE 78

LT & RT STA 329+70 - 338+00



- 6"- AGGREGATE SHOULDERS, TYPE A
- EXISTING PAVEMENT (7.2" & VAR, PCC - 4.7" & VAR, HOT-MIX ASPHALT OVERLAY)
- * 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
- HOT-MIX ASPHALT SHOULDERS, 6"

 EXISTING

PLUM RIVER

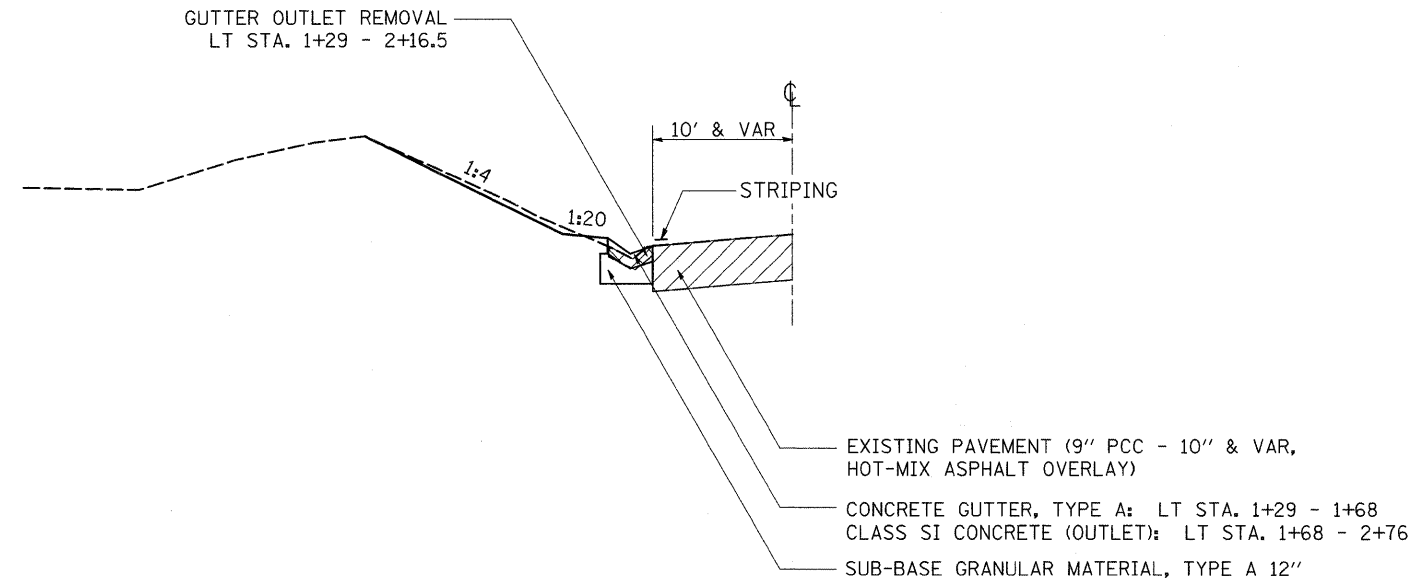
NOTES:
 * RATE OF APPLICATION = 112 LB/SQ YD/IN

FILE NAME =	USER NAME = hensanke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Tue Sep 30 10:55:38 2008	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64D07				
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TYPICAL SECTIONS

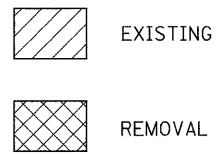
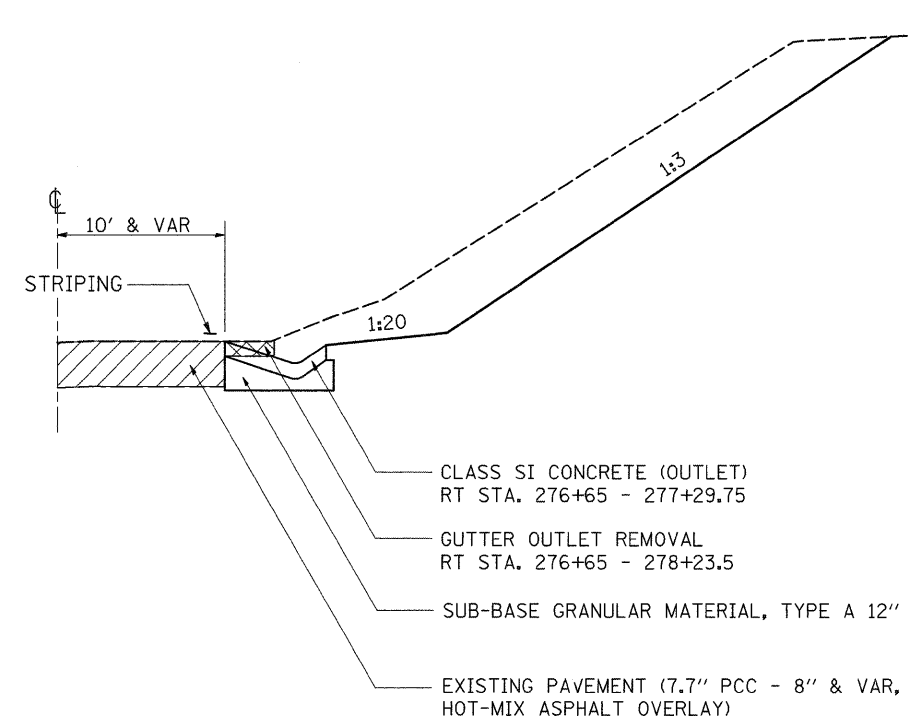
IL ROUTE 78 - GUTTER/OUTLET LOCATION

LT STA 1+29 - 2+76



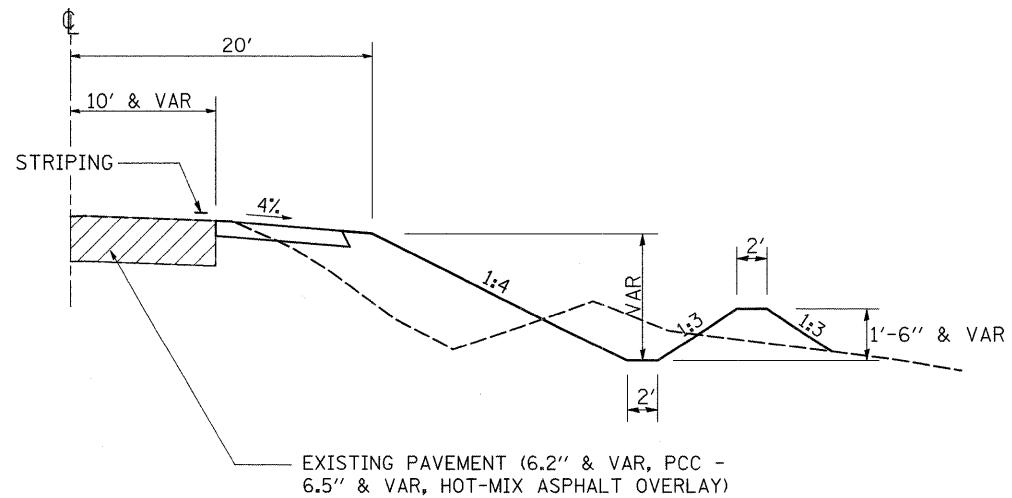
IL ROUTE 78 - OUTLET LOCATION

RT STA 276+65 - 277+29.75



IL ROUTE 78 - BERM LOCATION

LT STA 53+50 - 56+00
 RT STA 402+50 - 404+00
 RT STA 405+00 - 407+50

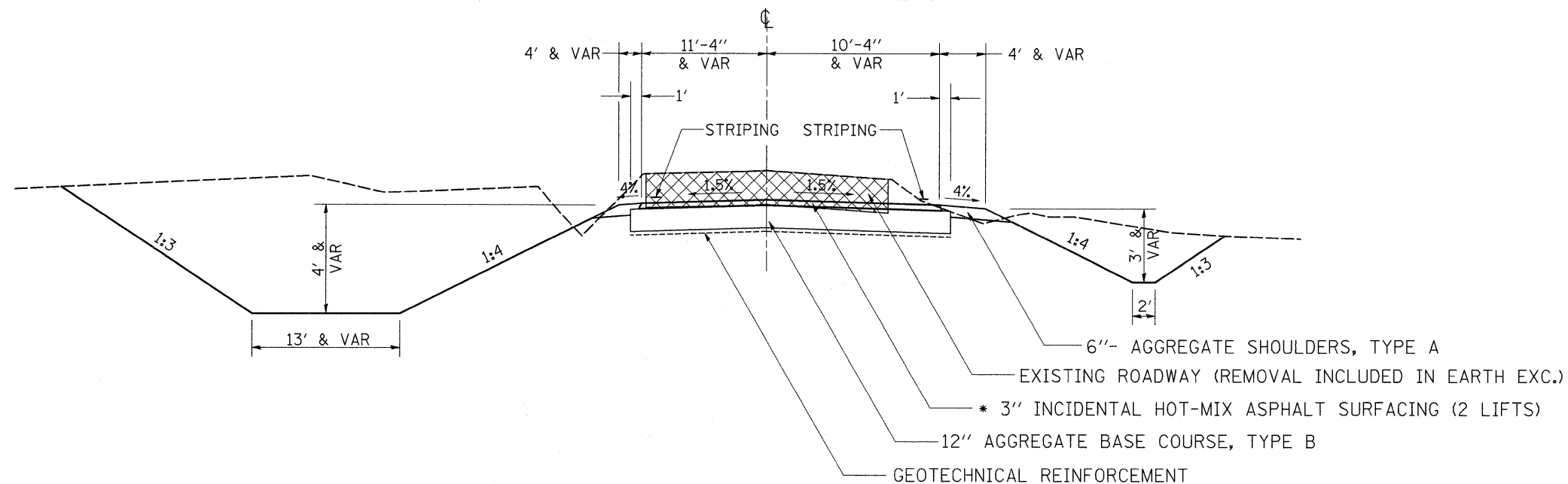


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					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

TYPICAL SECTIONS

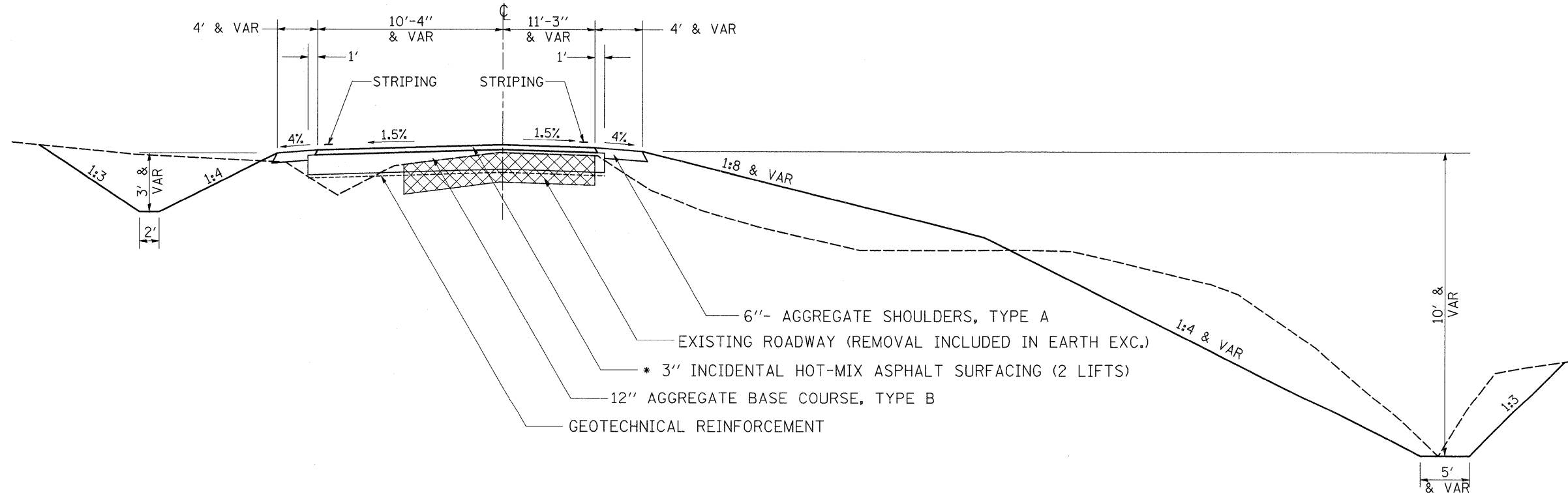
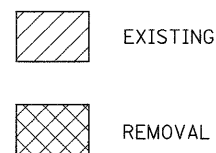
WILLOW ROAD

STA 40+10.47 - STA 42+50



BETHEL ROAD

STA 88+00 - STA 89+89.31



NOTES:

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

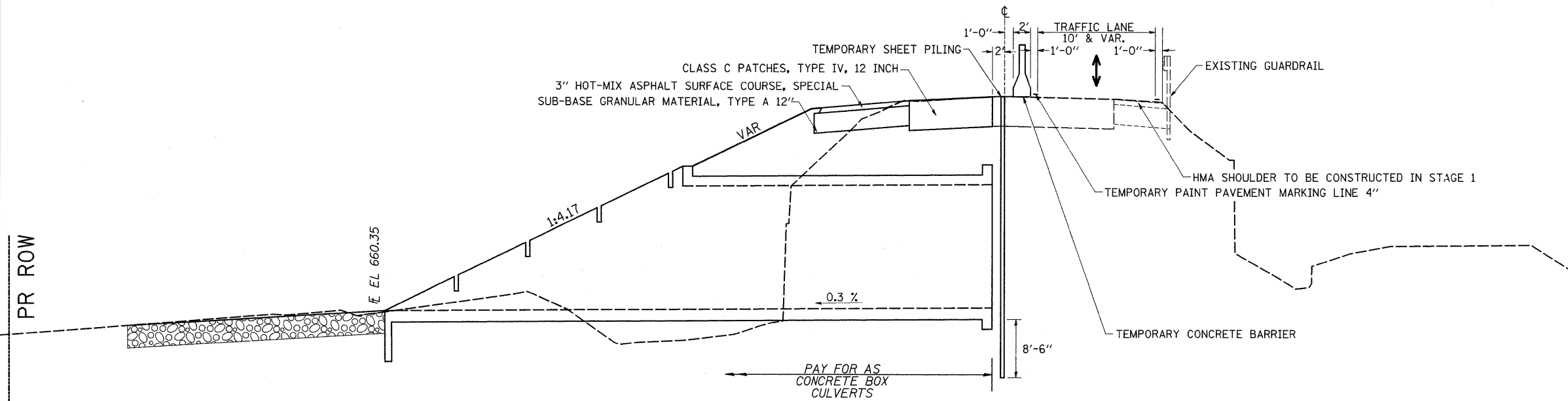
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		DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

STAGING CULVERT TYPICALS

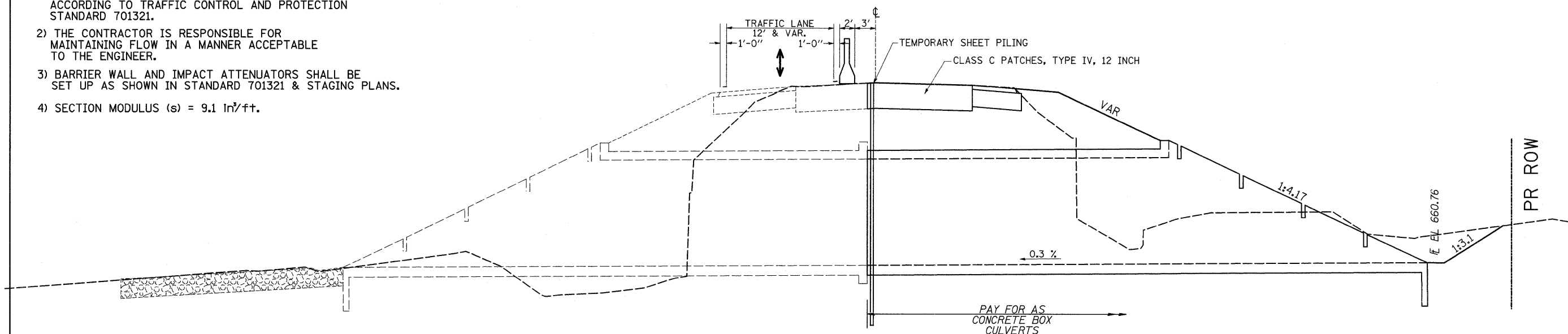
6'x6' Box Culvert @ 10.8° Skew

STA. 4 + 86.61

STAGE 2



STAGE 3



GENERAL NOTES:

- 1) TRAFFIC CONTROL TO BE SET UP AND PAID FOR ACCORDING TO TRAFFIC CONTROL AND PROTECTION STANDARD 701321.
- 2) THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FLOW IN A MANNER ACCEPTABLE TO THE ENGINEER.
- 3) BARRIER WALL AND IMPACT ATTENUATORS SHALL BE SET UP AS SHOWN IN STANDARD 701321 & STAGING PLANS.
- 4) SECTION MODULUS (s) = 9.1 In²/ft.

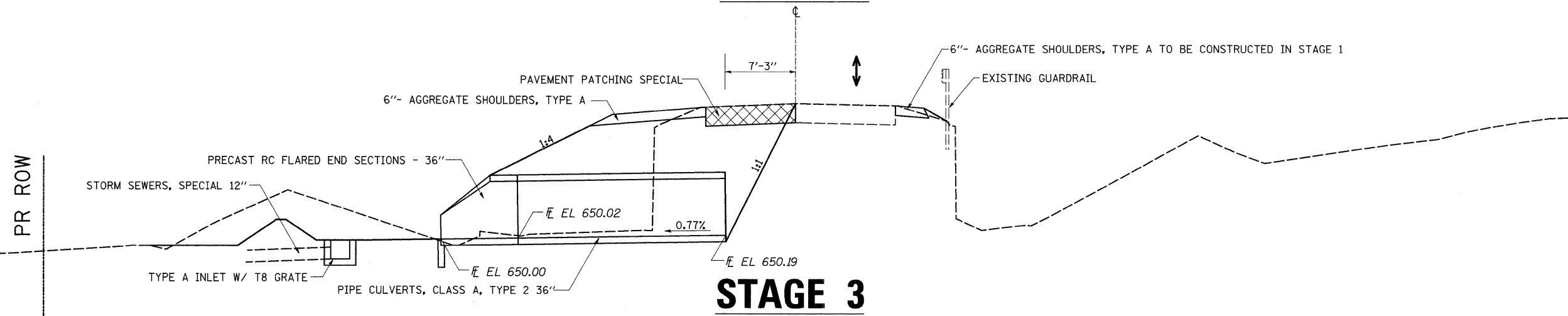
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PLOT DATE = Tue Sep 30 10:55:37 2008	DATE -	CHECKED -	REVISED -		CONTRACT NO. 64D07								
					SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

STAGING CULVERT TYPICALS

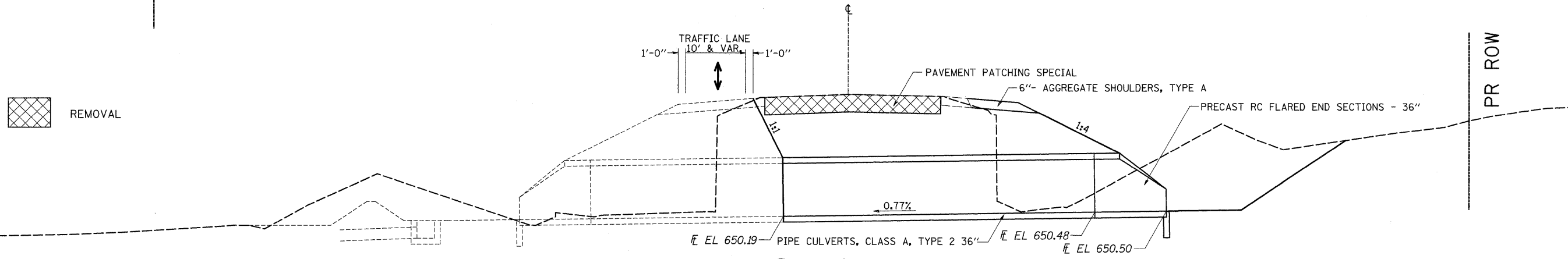
Four 36" Pipe Culverts

STA. 54 + 49.03

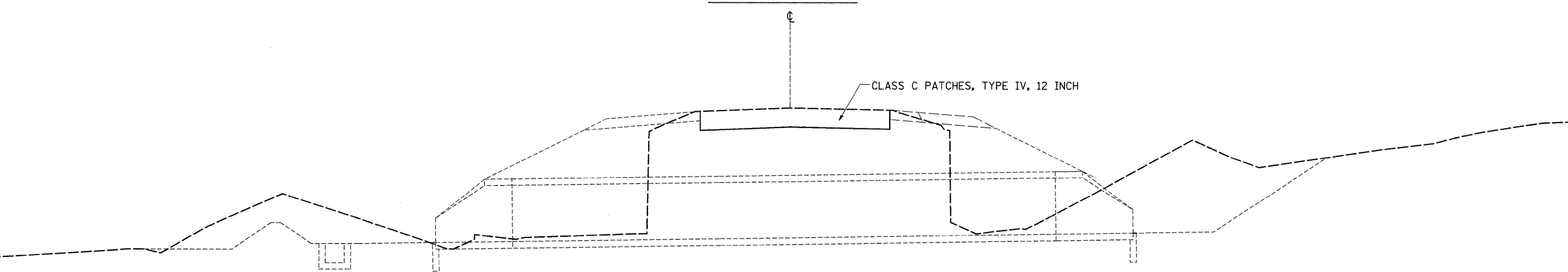
STAGE 2



STAGE 3



STAGE 4



REMOVAL

GENERAL NOTES:
 1) TRAFFIC CONTROL TO BE SET UP AND PAID FOR ACCORDING TO TRAFFIC CONTROL AND PROTECTION STANDARDS 701006, 701201, 701301, 701306, & 701311.

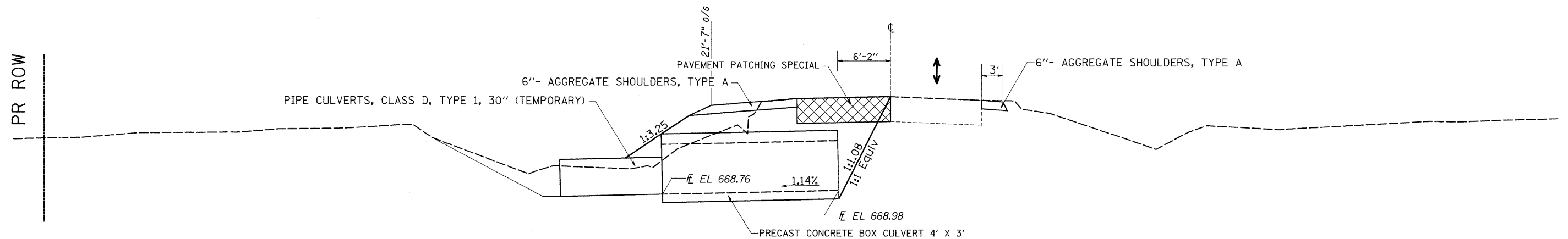
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STAGING CULVERT TYPICALS

Double 4'x3' Box Culvert @ 22.0° Skew

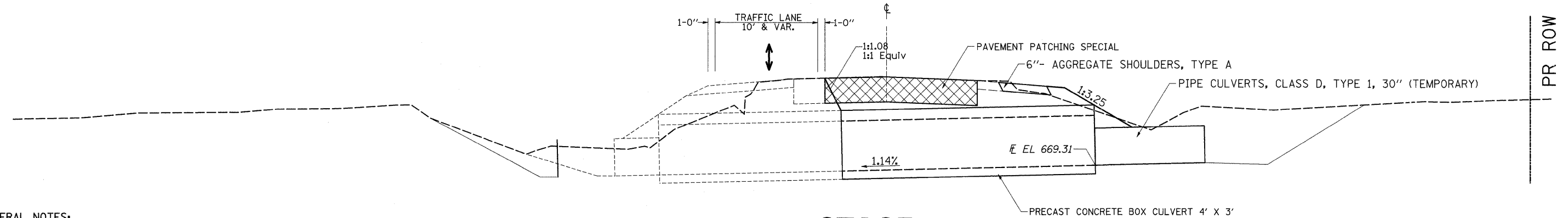
STA. 182 + 98.97

STAGE 1

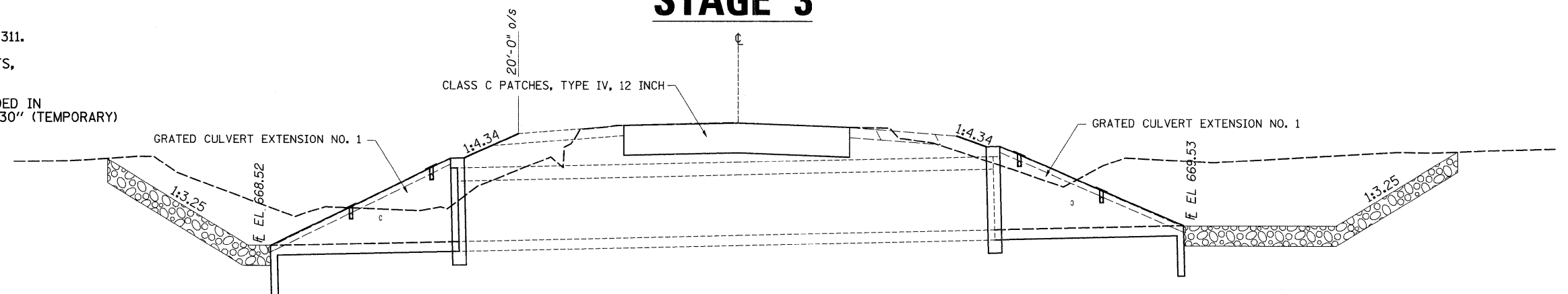


STAGE 2

REMOVAL



STAGE 3



GENERAL NOTES:

- 1) TRAFFIC CONTROL TO BE SET UP AND PAID FOR ACCORDING TO TRAFFIC CONTROL AND PROTECTION STANDARDS 701006, 701201, 701301, 701306, & 701311.
- 2) DURING STAGES 1 & 2, INSTALL 24' PIPE CULVERTS, CLASS D, TYPE 1, 30" (TEMPORARY) UNTIL GRATED CULVERT EXTENSION NO. 1 IS BUILT IN STAGE 3. REMOVAL OF THE TEMPORARY PIPE WILL BE INCLUDED IN THE COST FOR PIPE CULVERTS, CLASS D, TYPE 1, 30" (TEMPORARY)

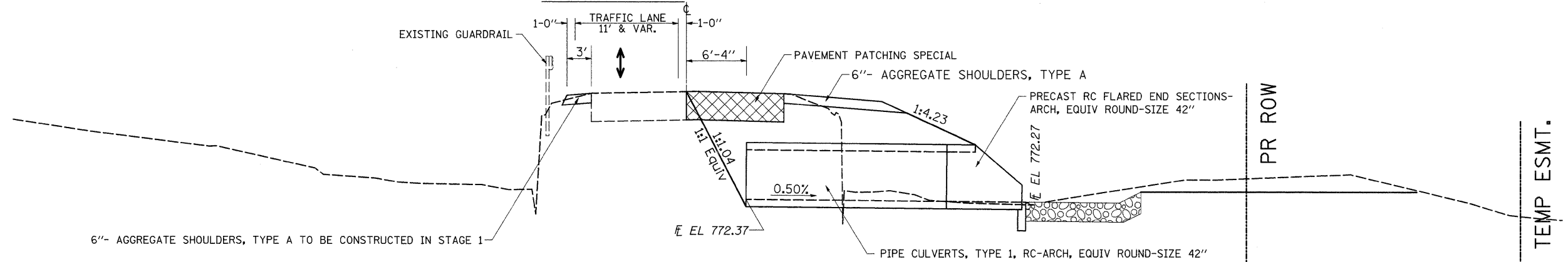
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		CHECKED -	REVISED -			CONTRACT NO. 64D07					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
PLOT SCALE = 50.0000' / IN.		PLOT DATE = Tue Sep 30 10:55:37 2008		SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.				

STAGING CULVERT TYPICALS

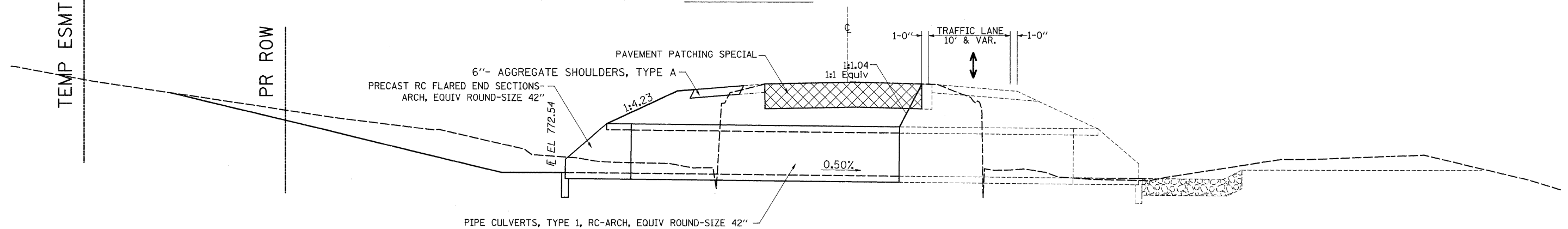
42" Equivalent Arch Pipe Culvert @ 15.0° Skew

STA. 404 + 70.72

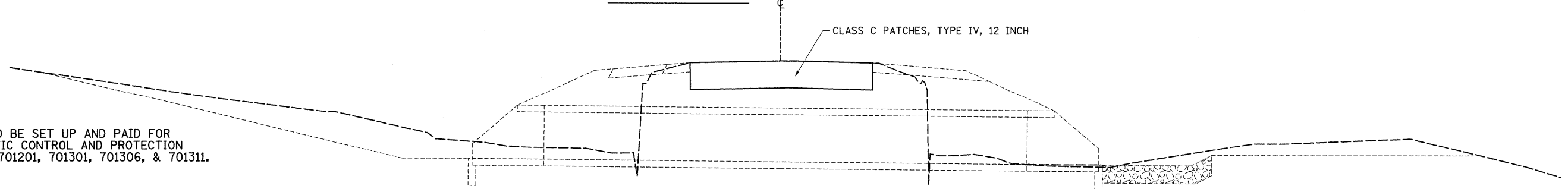
STAGE 1



STAGE 2



STAGE 3



GENERAL NOTES:

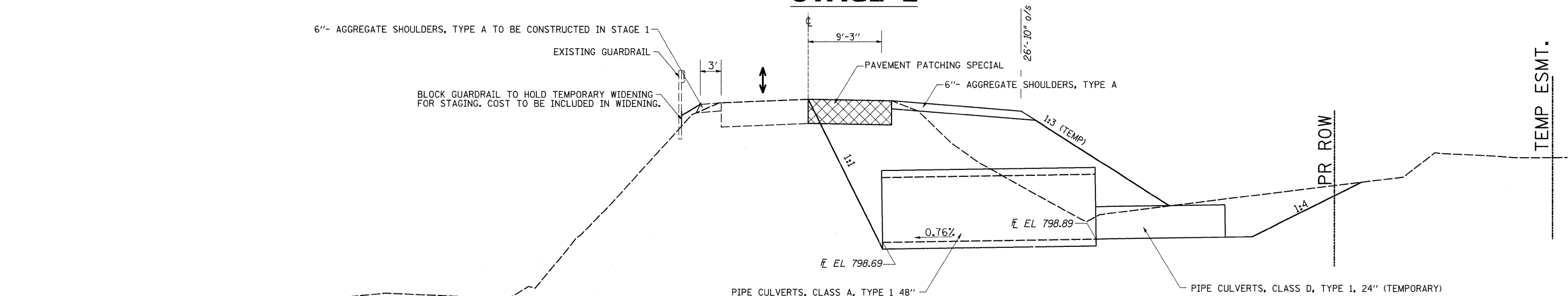
- 1) TRAFFIC CONTROL TO BE SET UP AND PAID FOR ACCORDING TO TRAFFIC CONTROL AND PROTECTION STANDARDS 701006, 701201, 701301, 701306, & 701311.

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Tue Sep 30 10:55:38 2008		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
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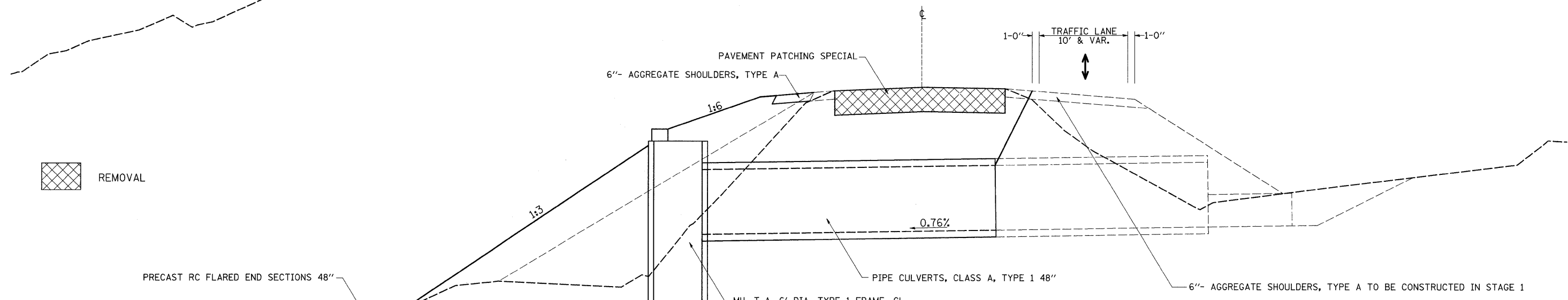
STAGING CULVERT TYPICALS

48" Pipe Culvert
STA. 448 + 28.40

STAGE 2



STAGE 3



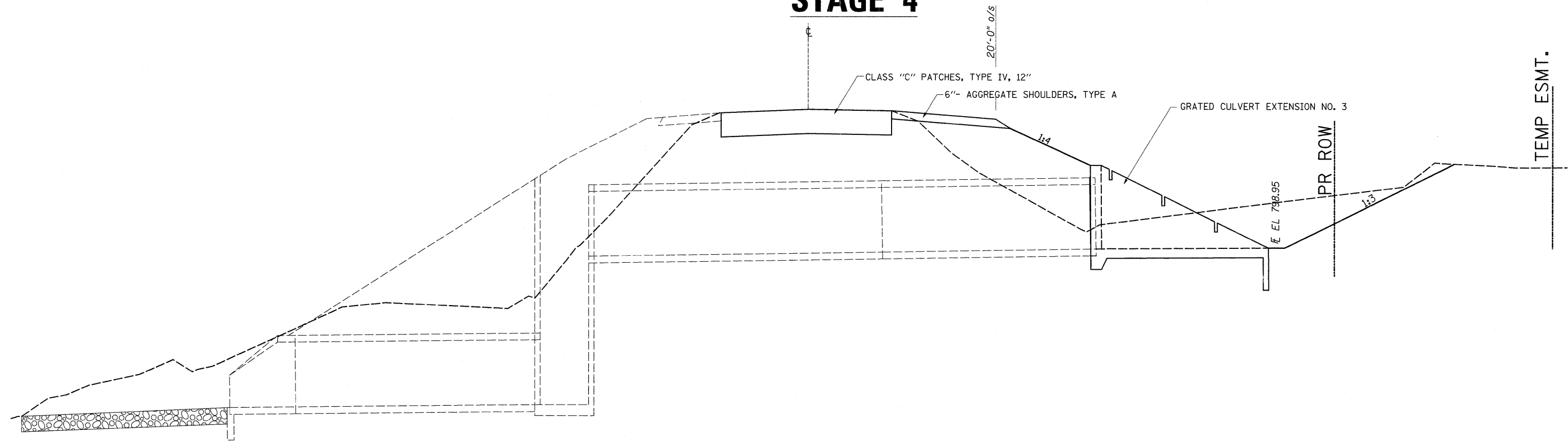
- GENERAL NOTES:**
- 1) TRAFFIC CONTROL TO BE SET UP AND PAID FOR ACCORDING TO TRAFFIC CONTROL AND PROTECTION STANDARDS 701006, 701201, 701301, 701306, & 701311.
 - 2) DURING STAGE 1, INSTALL 18' PIPE CULVERTS, CLASS D, TYPE 1, 24" (TEMPORARY) ON UPSTREAM END OF EX CULVERT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FLOW IN A MANNER ACCEPTABLE TO THE ENGINEER. REMOVE THIS TEMPORARY DOWNSTREAM PIPE AFTER STAGE 3 OPERATIONS. REMOVAL OF THE TEMPORARY PIPE WILL BE INCLUDED IN THE COST OF PIPE CULVERTS, CLASS D, TYPE 1, 24" (TEMPORARY).
 - 3) FOR STAGE 4, "CLASS C PATCHES, TYPE IV, 12 INCH" SHALL BE PLACED AND THE SHOULDER ON THE RIGHT SIDE SHALL BE REMOVED TO A 20' OFFSET AND 1:4 SLOPE TO THE HEADWALL SHALL BE CONSTRUCTED.
 - 4) FOR STAGE 4, GRATED CULVERT EXTENSION NO. 2 SHALL BE BUILT UPSTREAM.

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
at:\pwork\PWIDOT\HENSONKE\dms33697\08707.tpd.dgn	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -			642	(10,11)T	JO DAVIESS	283	19	
	PLOT DATE = Tue Sep 30 10:55:39 2008	CHECKED -	REVISED -			CONTRACT NO. 64D07					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STAGING CULVERT TYPICALS

48" Pipe Culvert
STA. 448 + 28.40

STAGE 4



 REMOVAL

- GENERAL NOTES:
- 1) TRAFFIC CONTROL TO BE SET UP AND PAID FOR ACCORDING TO TRAFFIC CONTROL AND PROTECTION STANDARDS 701006, 701201, 701301, 701306, & 701311.
 - 2) DURING STAGE 1, INSTALL 18" PIPE CULVERTS, CLASS D, TYPE 1, 24" (TEMPORARY) ON UPSTREAM END OF EX CULVERT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FLOW IN A MANNER ACCEPTABLE TO THE ENGINEER. REMOVE THIS TEMPORARY DOWNSTREAM PIPE AFTER STAGE 3 OPERATIONS. REMOVAL OF THE TEMPORARY PIPE WILL BE INCLUDED IN THE COST OF PIPE CULVERTS, CLASS D, TYPE 1, 24" (TEMPORARY).
 - 3) FOR STAGE 4, "CLASS C PATCHES, TYPE IV, 12 INCH" SHALL BE PLACED AND THE SHOULDER ON THE RIGHT SIDE SHALL BE REMOVED TO A 20' OFFSET AND 1:4 SLOPE TO THE HEADWALL SHALL BE CONSTRUCTED.
 - 4) FOR STAGE 4, GRATED CULVERT EXTENSION NO. 2 SHALL BE BUILT UPSTREAM.

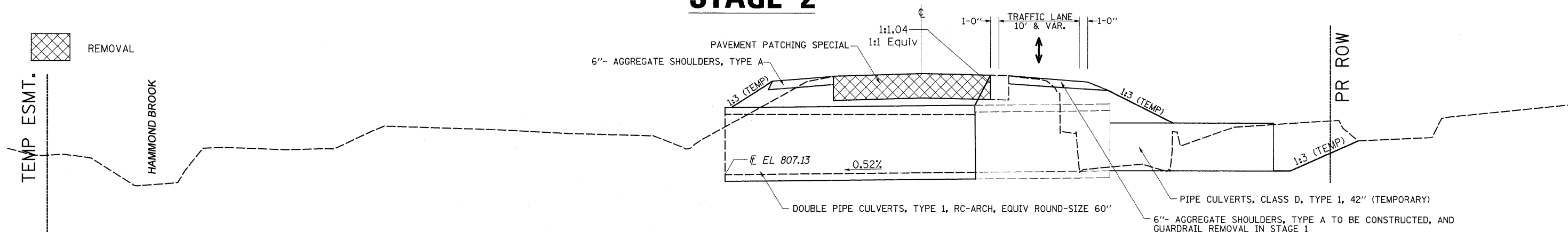
FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
os\pwork\PW100\HENSONKE\dms33697\087707.tpd.dgn		DRAWN -	REVISED -					642	(10,11)T	JO DAVIESS	283	20
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 64D07			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				
PLOT DATE = Tue Sep 30 10:55:39 2008		DATE -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.		

STAGING CULVERT TYPICALS

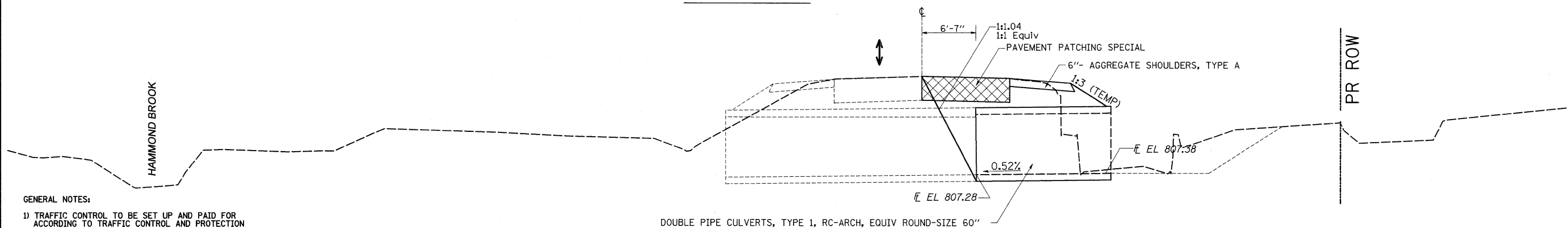
Double 60" Equivalent Arch Pipe Culvert @ 15.0° Skew

STA. 484 + 22.22

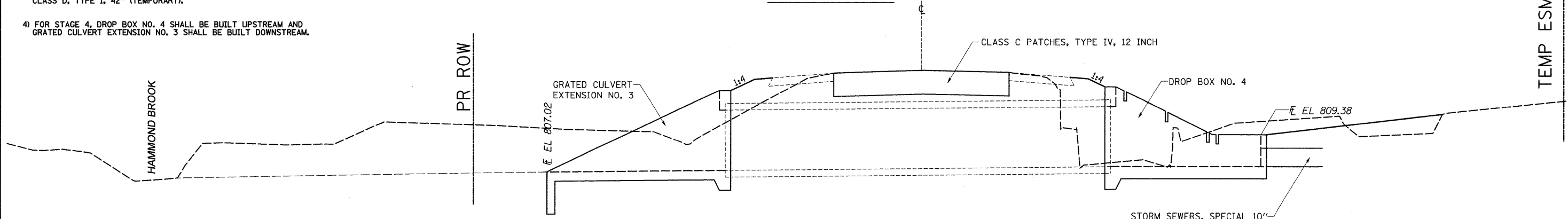
STAGE 2



STAGE 3



STAGE 4



GENERAL NOTES:

- 1) TRAFFIC CONTROL TO BE SET UP AND PAID FOR ACCORDING TO TRAFFIC CONTROL AND PROTECTION STANDARDS 701006, 701201, 701301, 701306, & 701311.
- 2) DURING STAGE 1, INSTALL 20' PIPE CULVERTS, CLASS D, TYPE 1, 42" (TEMPORARY) ON UPSTREAM END OF EX CULVERT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FLOW IN A MANNER ACCEPTABLE TO THE ENGINEER. REMOVE THIS TEMPORARY DOWNSTREAM PIPE AFTER STAGE 2 OPERATIONS. REMOVAL OF THE TEMPORARY PIPE WILL BE INCLUDED IN THE COST OF PIPE CULVERTS, CLASS D, TYPE 1, 42" (TEMPORARY).
- 4) FOR STAGE 4, DROP BOX NO. 4 SHALL BE BUILT UPSTREAM AND GRATED CULVERT EXTENSION NO. 3 SHALL BE BUILT DOWNSTREAM.

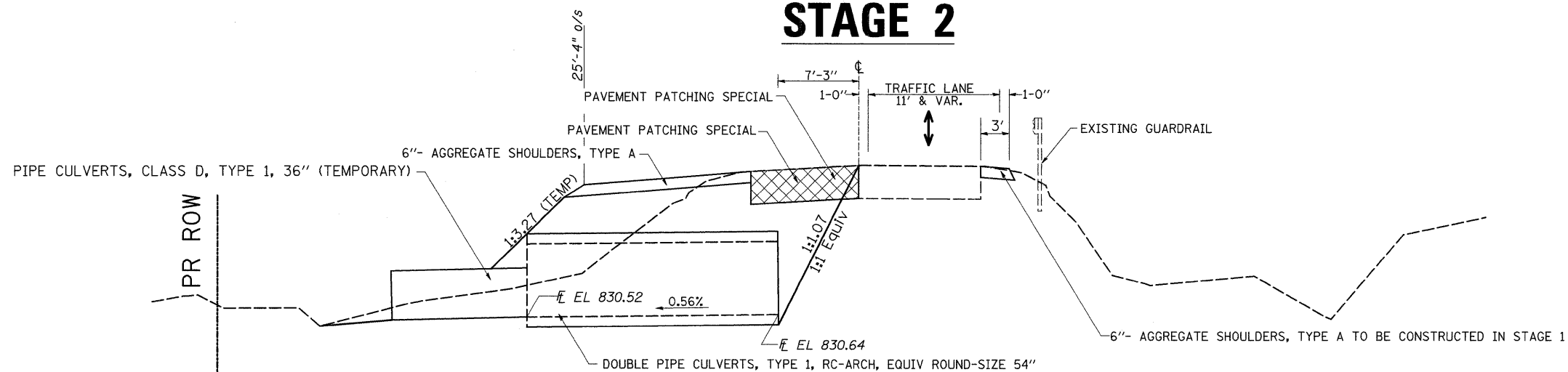
FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cr:\pwork\PIWIDOT\HENSONKE\dms33697\ad707.tpd.dgn	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -					642	(10,11)T	JO DAVIESS	283	21
PLOT DATE = Tue Sep 30 10:55:39 2008	DATE -	CHECKED -	REVISED -					CONTRACT NO. 64D07				
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STAGING CULVERT TYPICALS

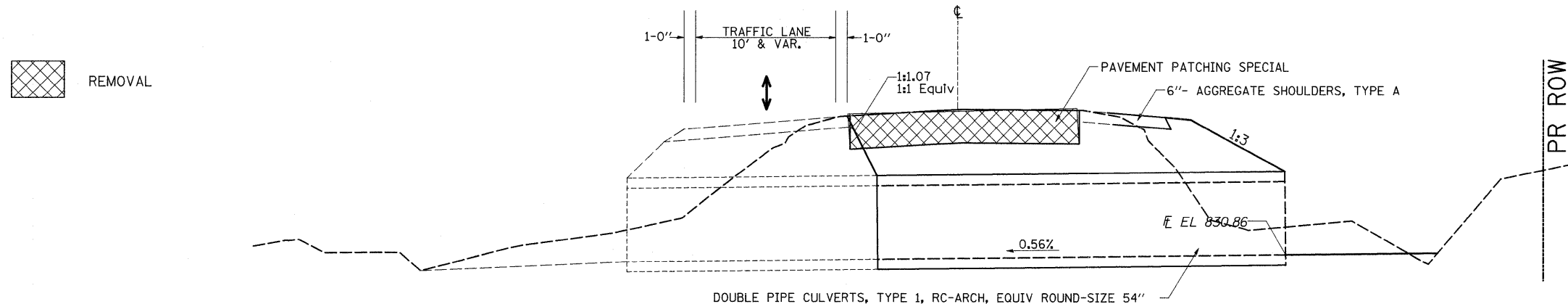
Double 54" Equivalent Arch Pipe Culvert @ 20.4° Skew

STA. 501 + 14.74

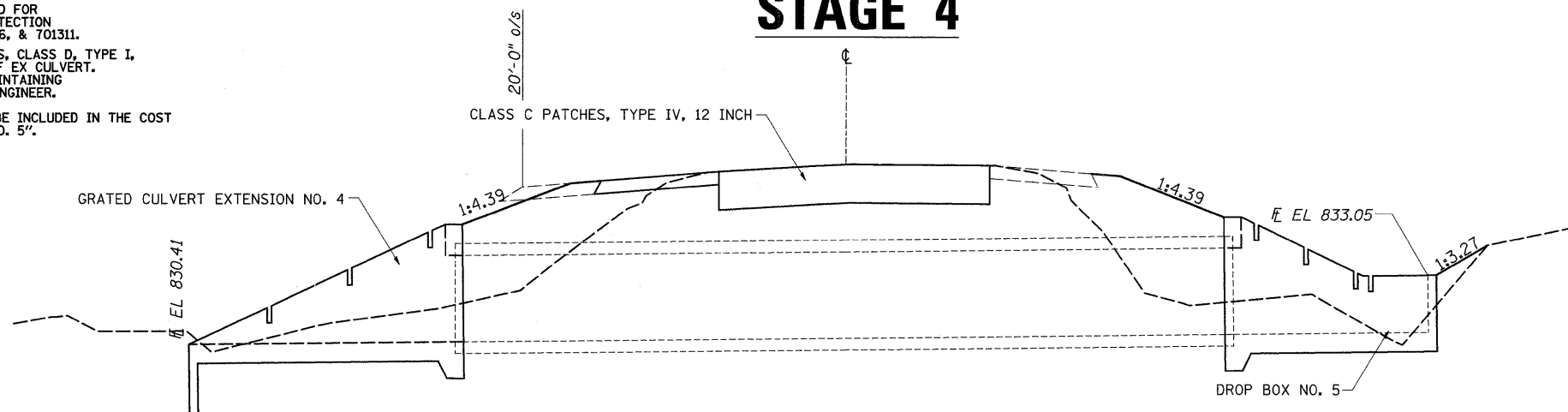
STAGE 2



STAGE 3



STAGE 4



GENERAL NOTES:

- 1) TRAFFIC CONTROL TO BE SET UP AND PAID FOR ACCORDING TO TRAFFIC CONTROL AND PROTECTION STANDARDS 701006, 701201, 701301, 701306, & 701311.
- 2) FOR STAGE 1, INSTALL 20' PIPE CULVERTS, CLASS D, TYPE I, 36" (TEMPORARY) ON DOWNSTREAM END OF EX CULVERT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING FLOW IN A MANNER ACCEPTABLE TO THE ENGINEER.
- 3) THE REMOVAL OF TEMPORARY PIPE WILL BE INCLUDED IN THE COST OF "REMOVAL OF EXISTING STRUCTURES NO. 5".

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cr:\pwork\p\WIDOT\HENSONKE\dms33697\207707.tpd.dgn	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -			642	(10,11)T	JO DAVIESS	283	22	
PLOT DATE = Tue Sep 30 10:55:37 2008	DATE -	REVISED -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
								CONTRACT NO. 64D07			

SCHEDULE OF QUANTITIES

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

UNIT	LOCATION	OFFSET
9	STA 229 + 83.7	93.9' LT
9	STA 230 + 62.2	68.1' RT
8	STA 230 + 68	73.6' RT
13	STA 232 + 30	47.5' RT
10	STA 232 + 40	46.5' RT
9	STA 279 + 79.3	68.2' LT
8	STA 281 + 50.7	38.8' LT
8	STA 285 + 17.7	35.0' LT
9	STA 285 + 23.6	34.8' LT
15	STA 286 + 52.1	37.2' LT
8	STA 336 + 09	71.9' RT
11	STA 336 + 13	80.6' RT
14	STA 336 + 24.8	76.3' RT
8	STA 344 + 22.8	43.7' RT
10	STA 344 + 38.9	35.1' RT
13	STA 344 + 67.1	40.7' RT
13	STA 345 + 78.6	48.9' RT
13	STA 345 + 90.6	53.0' RT
15	STA 346 + 08.6	55.2' RT
8	STA 448 + 08.6	83.9' LT
8	STA 448 + 11.6	77.3' LT
8	STA 448 + 18.7	78.6' LT
9	STA 448 + 23.3	73.1' RT
10	STA 448 + 33.1	83.2' RT
9	STA 448 + 59.8	86.8' RT
15	STA 483 + 51.3	94.9' LT
13	STA 485 + 47.1	40.3' RT
14	STA 501 + 86.2	30.8' RT
297	TOTAL	

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

UNIT	LOCATION	OFFSET
55	STA 230 + 43	43.5' RT
20	STA 230 + 92.8	61.5' RT
61	STA 232 + 11	48.0' RT
21	STA 232 + 60	48.0' RT
39	STA 279 + 71.1	66.9' LT
26	STA 281 + 13.8	34.1' LT
45	STA 281 + 31.1	37.8' LT
17	STA 281 + 58.8	40.6' LT
23	STA 282 + 42.8	35.2' LT
18	STA 283 + 76.6	37.3' LT
20	STA 284 + 16.4	35.2' LT
22	STA 284 + 57.2	37.6' LT
20	STA 284 + 61.9	39.0' LT
24	STA 286 + 12.2	36.3' LT
13	STA 286 + 23.8	35.6' LT
26	STA 286 + 36.2	35.4' LT
18	STA 345 + 02.6	36.7' RT
25	STA 346 + 16.7	32.7' RT
24	STA 346 + 53.9	56.8' RT
16	STA 346 + 64	57.2' RT
18	STA 448 + 92.7	57.0' RT
555	TOTAL	

20100500 TREE REMOVAL ACRES

ACRE	LOCATION	OFFSET
0.09	STA 180 + 80	125 - 185' LT
0.99	STA 232 + 00	46' LT & VAR
0.24	STA 276 + 15	33' RT & VAR
1.32	TOTAL	

20200200 ROCK EXCAVATION

CU_YD	LOCATION	REMARKS
5	STA 448 + 28.40	
5	STA 484 + 22.2	
5	STA 501 + 14.7	
15	TOTAL	

21301052 EXPLORATION TRENCH 52" DEPTH

FOOT	LOCATION	REMARKS
50	LT STA 4 + 86.61	Field Tile
50	RT/LT STA 54 + 50	Field Tile
100	TOTAL	

28000300 TEMPORARY DITCH CHECKS

EACH	LOCATION
	IL RTE 78
1	RT STA 4 + 50
1	RT STA 4 + 75
1	RT STA 4 + 90
1	LT STA 6 + 25
1	LT STA 6 + 75
1	LT STA 7 + 25
1	LT STA 7 + 75
1	LT STA 8 + 25
1	LT STA 8 + 75
1	LT STA 9 + 25
1	LT STA 53 + 25
1	RT STA 53 + 25
1	LT STA 53 + 75
1	RT STA 53 + 75
1	LT STA 54 + 25
1	RT STA 54 + 25
1	LT STA 54 + 75
1	RT STA 54 + 75
1	LT STA 55 + 25
1	RT STA 55 + 25
1	LT STA 55 + 75
1	RT STA 55 + 75
1	RT STA 179 + 75
1	LT STA 179 + 75
1	LT STA 181 + 75
1	LT STA 184 + 50
1	RT STA 225 + 50
1	RT STA 227 + 00
1	LT STA 228 + 00
1	RT STA 228 + 00
1	RT STA 228 + 50
1	LT STA 228 + 75
1	RT STA 229 + 00
1	RT STA 229 + 50

SCHEDULE OF QUANTITIES

1	RT STA	231 + 75
1	RT STA	232 + 25
1	RT STA	232 + 75
1	RT STA	233 + 25
1	RT STA	233 + 75
1	RT STA	234 + 25
1	RT STA	234 + 75
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1	RT STA	342 + 00
1	RT STA	343 + 25
1	RT STA	402 + 50
1	RT STA	403 + 00
1	LT STA	404 + 50
1	LT STA	405 + 50
1	RT STA	405 + 50
1	LT STA	406 + 50
1	RT STA	406 + 50
1	RT STA	435 + 50
1	RT STA	436 + 25
1	RT STA	448 + 00
1	LT STA	484 + 50
1	RT STA	484 + 50
92	SUB-TOTAL	
WILLOW ROAD		
1	LT STA	41 + 50
1	LT STA	42 + 00
2	SUB-TOTAL	
BETHEL ROAD		
1	LT STA	88 + 50
1	LT STA	89 + 00
1	LT STA	89 + 50
3	SUB-TOTAL	
97	GRAND TOTAL	

28000400 PERIMETER EROSION BARRIER

FOOT	LOCATION	REMARKS
IL RTE 78		
190.4	LT STA 3 + 25	23' Gap @ LT STA 4 + 86.61 (Culvert)
101.4	RT STA 2 + 75	
253.6	LT STA 53 + 25	50' Gap @ LT STA 54 + 49.03 (Culvert)
408.4	LT STA 180 + 79.1	Channel West of Willow Road
77.4	LT STA 228 + 99.25	
630.9	LT STA 231 + 13.8	
776.8	LT STA 238 + 25	
667.0	LT STA 274 + 25	20' Gap @ LT STA 278 + 24.12 (Culvert)
158.6	RT STA 277 + 75	30' Gap @ RT STA 278 + 24.12 (Culvert)
652.3	RT STA 331 + 25	50' Gap @ RT STA 336 + 17.63 (Culvert)
492.5	RT STA 343 + 73.5	50' Gap @ RT STA 347 + 68.27 & 348 + 33.81
459.3	RT STA 402 + 25	57.5' Gap @ RT STA 402 + 77 & 404 + 70.72
192.2	LT STA 434 + 75	25' Gap @ LT STA 435 + 71.80 (Culvert)
253.6	LT STA 447 + 00	25' Gap @ LT STA 448 + 28.40 (Culvert)
365.0	LT STA 482 + 46	25' Gap @ LT STA 484 + 22.20 (Culvert)
160.4	RT STA 484 + 20	
448.4	LT STA 498 + 75	16' Gap @ LT STA 501 + 14.74 (Culvert)
6,288.2	SUB-TOTAL	
WILLOW ROAD		
74.8	RT STA 41 + 50	
74.8	SUB-TOTAL	
6,363	GRAND TOTAL	

28000500 INLET AND PIPE PROTECTION

EACH	LOCATION	REMARKS
IL RTE 78		
1	RT STA 4 + 74.6	SN 043-1062
1	LT STA 5 + 15	FIELD TILE JUNCTION VAULTS, 2' DIA.
1	LT STA 54 + 41.00	INLETS, TYPE A
1	RT STA 54 + 49.4	SN 043-1082
1	LT STA 54 + 57.00	INLETS, TYPE A
1	RT STA 181 + 58.6	
1	LT STA 182 + 10.3	
1	LT STA 182 + 75.8	
1	RT STA 183 + 15.3	SN 043-1063
1	RT STA 230 + 72.2	SN 043-1078
1	RT STA 231 + 28.2	
1	RT STA 278 + 24.12	SN 043-1064
1	RT STA 280 + 98.4	
1	LT STA 281 + 20.7	
1	LT STA 336 + 17.6	SN 043-1079
1	LT STA 348 + 33.8	SN 043-1065
1	RT STA 402 + 50.2	
1	RT STA 404 + 70.72	FIELD TILE JUNCTION VAULTS, 2' DIA.
1	LT STA 404 + 79.5	SN 043-1066
1	RT STA 435 + 71.80	SN 043-1067
1	RT STA 448 + 28.40	SN 043-1068
1	RT STA 484 + 22.2	SN 043-1069
1	RT STA 501 + 25.40	SN 043-1070
23	SUB-TOTAL	
WILLOW ROAD		
1	LT STA 41 + 55.2	
1	SUB-TOTAL	
24	GRAND TOTAL	

SCHEDULE OF QUANTITIES

28100107 STONE RIPRAP CLASS A4

SQ YD	LOCATION	REMARKS
44.1	RT/LT STA 182 + 98.97	SN 043-1063
94.4	LT STA 230 + 39.00	SN 043-1078
119.4	RT STA 230 + 39.00	SN 043-1078
76.7	RT STA 278 + 24.12	SN 043-1064
26.7	LT STA 280 + 50.00	
40.0	RT STA 336 + 17.6	SN 043-1079
7.1	RT STA 348 + 33.81	SN 043-1065
12.0	LT STA 435 + 71.80	SN 043-1067
28.9	LT STA 448 + 28.40	SN 043-1068
449	TOTAL	

28200200 FILTER FABRIC

SQ YD	LOCATION	REMARKS
44.1	RT/LT STA 182 + 98.97	SN 043-1063
94.4	LT STA 230 + 39.00	SN 043-1078
119.4	RT STA 230 + 39.00	SN 043-1078
83.3	LT STA 278 + 00 - 278 50	SN 043-1064 - Cattle Walk
76.7	RT STA 278 + 24.12	SN 043-1064
26.7	LT STA 280 + 50.00	
40.0	RT STA 336 + 17.6	SN 043-1079
7.1	RT STA 348 + 33.81	SN 043-1065
12.0	LT STA 435 + 71.80	SN 043-1067
28.9	LT STA 448 + 28.40	SN 043-1068
533	TOTAL	

28500400 ARTICULATED BLOCK REVETMENT MAT

SQ YD	LOCATION	REMARKS
83.3	LT STA 278 + 00 - 278 50	SN 043-1064 - Cattle Walk
83	TOTAL	

44002600 GUTTER OUTLET REMOVAL

FOOT	LOCATION	REMARKS
87.5	LT STA 1 + 29 - 2 16.5	
114.5	RT STA 277 + 09 - 278 23.5	
202	TOTAL	

44201383 CLASS C PATCHES TYPE IV 12 INCH

SQ YD	LOCATION	REMARKS
140.0	STA 4 + 54 - 5 16	SN 043-1062
111.1	STA 54 + 24 - 54 74	SN 043-1082
106.5	STA 182 + 74 - 183 21	SN 043-1063
45.8	STA 239 + 95 - 240 15	
82.9	STA 404 + 52 - 404 90	SN 043-1066
117.0	STA 448 + 13 - 448 63	SN 043-1068
127.4	STA 483 + 88 - 484 43	SN 043-1069
120.8	STA 500 + 87 - 501 47	SN 043-1070
852	TOTAL	

50100300 REMOVAL OF EXISTING STRUCTURES NO. 1

EACH	LOCATION	REMARKS
1	STA 4 + 86.6	Read Special Provision
1	TOTAL	

50100400 REMOVAL OF EXISTING STRUCTURES NO. 2

EACH	LOCATION	REMARKS
2	STA 182 + 98.3 And 40 30.5	Read Special Provision
2	TOTAL	

50100500 REMOVAL OF EXISTING STRUCTURES NO. 3

EACH	LOCATION	REMARKS
1	STA 404 + 70.72	Read Special Provision
1	TOTAL	

50100600 REMOVAL OF EXISTING STRUCTURES NO. 4

EACH	LOCATION	REMARKS
1	STA 484 + 24	Read Special Provision
1	TOTAL	

50100700 REMOVAL OF EXISTING STRUCTURES NO. 5

EACH	LOCATION	REMARKS
1	STA 501 + 17	Read Special Provision
1	TOTAL	

50100800 REMOVAL OF EXISTING STRUCTURES NO. 6

EACH	LOCATION	REMARKS
1	STA 54 + 49	Read Special Provision
1	TOTAL	

50800105 REINFORCEMENT BARS

POUND	LOCATION	REMARKS
8,120	STA 4 + 86.61	SN 043-1062: Barrel and End Sections
8,120	TOTAL	

50800515 BAR SPLICERS

EACH	LOCATION	REMARKS
33	STA 4 + 86.61	SN 043-1062
33	TOTAL	

SCHEDULE OF QUANTITIES

5421D024 PIPE CULVERTS, CLASS D, TYPE 1 24" (TEMPORARY)

FOOT	LOCATION	REMARKS
18.0	RT STA 448 + 48.50	SN 043-1068
18	TOTAL	

5421D030 PIPE CULVERTS, CLASS D, TYPE 1 30" (TEMPORARY)

FOOT	LOCATION	REMARKS
24	STA 182 + 98.97	SN 043-1063
24	TOTAL	

5421D036 PIPE CULVERTS, CLASS D, TYPE 1 36" (TEMPORARY)

FOOT	LOCATION	REMARKS
20.0	LT STA 501 + 14.7	SN 043-1070
20	TOTAL	

5421D042 PIPE CULVERTS, CLASS D, TYPE 1 42" (TEMPORARY)

FOOT	LOCATION	REMARKS
20.0	STA 484 + 22.22	SN 043-1069
20	TOTAL	

54213447 END SECTIONS 12"

EACH	LOCATION	REMARKS
2	RT STA 6 + 66.10	For PIPE CULVERTS 12" (TEMPORARY): Stage 3
2	TOTAL	

54213450 END SECTIONS 15"

EACH	LOCATION	REMARKS
2	RT STA 402 + 77.84	FE
2	TOTAL	

54213453 END SECTIONS 18"

EACH	LOCATION	REMARKS
2	RT STA 280 + 78.00	PE
2	LT STA 281 + 00	FE
4	TOTAL	

54213465 END SECTIONS 30"

EACH	LOCATION	REMARKS
2	RT STA 231 + 14	PE
2	TOTAL	

54213669 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"

EACH	LOCATION	REMARKS
1	RT STA 336 + 17.6	
1	TOTAL	

54213675 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"

EACH	LOCATION	REMARKS
1	RT STA 348 + 33.8	
1	TOTAL	

54213681 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"

EACH	LOCATION	REMARKS
1	LT STA 54 + 49.03	
1	LT STA 54 + 49.03	
1	LT STA 54 + 49.03	
1	LT STA 54 + 49.03	
1	RT STA 54 + 49.03	
1	RT STA 54 + 49.03	
1	RT STA 54 + 49.03	
1	RT STA 54 + 49.03	
1	LT STA 435 + 71.80	
9	TOTAL	

54213693 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 48"

EACH	LOCATION	REMARKS
1	LT STA 448 + 28.4	At 15° Right Forward Skew From MH
1	TOTAL	

54214293 END SECTIONS EQUIVALENT ROUND-SIZE 18"

EACH	LOCATION	REMARKS
2	STA 40 + 35.79	Across Willow Road
2	TOTAL	

54214947 PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ARCH. EQUIVALENT ROUND-SIZE 42"

EACH	LOCATION	REMARKS
2	STA 404 + 70.72	
2	TOTAL	

54215472 CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 72"

EACH	LOCATION	REMARKS
2	RT/LT STA 278 + 24.12	LT - CULVERT DETAIL; RT - HWY STD 542111
2	TOTAL	

54215484 CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 84"

EACH	LOCATION	REMARKS
2	RT/LT STA 230 + 39.00	SN 043-1078
2	TOTAL	

SCHEDULE OF QUANTITIES

54247190 GRATING FOR CONCRETE FLARED END SECTION 48"

EACH	LOCATION
1	LT STA 448 + 28.4
1	TOTAL

54390180 INSERTION CULVERT LINER 24"

FOOT	LOCATION
71.00	STA 336 + 17.6
71	TOTAL

REMARKS
Existing Cattle Walk

54390210 INSERTION CULVERT LINER 30"

FOOT	LOCATION
82.00	STA 348 + 33.8
82	TOTAL

REMARKS
Existing Cattle Walk

54390230 INSERTION CULVERT LINER 36"

FOOT	LOCATION
84.50	STA 435 + 71.80
85	TOTAL

REMARKS
Existing 48" CMP

54390330 INSERTION CULVERT LINER 72"

FOOT	LOCATION
105	STA 278 + 24.12
105	TOTAL

REMARKS
SN 043-1064

54390350 INSERTION CULVERT LINER 84"

FOOT	LOCATION
120	STA 230 + 39.00
120	TOTAL

REMARKS
SN 043-1078

60223800 MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID

EACH	LOCATION
1	LT STA 448 + 28.40
1	TOTAL

REMARKS
30' LT O/S

60236200 INLETS, TYPE A, TYPE 8 GRATE

EACH	LOCATION
1	LT STA 54 + 41.00
1	LT STA 54 + 57.00
2	TOTAL

REMARKS
49' LT O/S
49' LT O/S

60600095 CLASS SI CONCRETE (OUTLET)

CU YD	LOCATION
4.32	LT STA 1 + 68.00 - 2 01.84
6.50	LT STA 2 + 01.84 - 2 76
5.81	RT STA 276 + 10 - 276 72.28
16.6	TOTAL

REMARKS
Type A Gutter Entrance
Type A Gutter Outlet
Type A Gutter Outlet

60602500 CONCRETE GUTTER, TYPE A

FOOT	LOCATION
39	LT STA 1 + 29.00 - 1 68.00
39	TOTAL

61133100 FIELD TILE JUNCTION VAULTS, 2' DIA.

EACH	LOCATION
1	LT STA 5 + 15.00
1	RT STA 54 + 70.00
1	RT STA 404 + 70.72
2	Contingency
5	TOTAL

REMARKS
80' o/s
50' o/s
53' o/s
Contingency

61140000 STORM SEWERS, SPECIAL 8"

FOOT	LOCATION
20	RT STA 404 + 70.72
15	RT STA 54 + 70.00
15	Contingency
50	TOTAL

61140100 STORM SEWERS, SPECIAL 10"

FOOT	LOCATION
15	RT STA 484 + 22.22
15	Contingency
30	TOTAL

REMARKS
Outlet To "Drop Box No. 4"

61140200 STORM SEWERS, SPECIAL 12"

FOOT	LOCATION
10	LT STA 54 + 41.00
10	LT STA 54 + 57.00
15	Contingency
35	TOTAL

REMARKS
Linking Inlets, TYPE A with Ex Field Tile
Linking Inlets, TYPE A with Ex Field Tile
Contingency

63000000 STEEL PLATE BEAM GUARD RAIL, TYPE A

FOOT	LOCATION
1150	LT STA 232 + 00 - 243 50
312.5	LT STA 277 + 00 - 280 12.5
1,462.5	TOTAL

SCHEDULE OF QUANTITIES

66411900 TEMPORARY FENCE

FOOT	LOCATION	REMARKS
1304.00	LT STA 274 +04.67 - 286 79.94	Cattle
269	LT STA 335 +03.25 - 337 60.75	Horses
76.6	LT STA 405 +11.3 - 405 86.12	Horses
207.2	RT STA 447 +59.22 - 449 16.70	Cattle
390.0	LT STA 482 +46 - 485 25	Cattle
160.8	RT STA 484 +19 - 485 68	Cattle
2,408	TOTAL	

66600105 FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

EACH	LOCATION	OFFSET
	IL RTE 78	
1	LT STA 2 +50	33.00'
1	RT STA 2 +70	38.34'
1	RT STA 3 +00	55.00'
1	LT STA 3 +50	60.00'
1	LT STA 4 +50	70.00'
1	LT STA 5 +00	100.00'
1	RT STA 5 +07.87	75.00'
1	RT STA 5 +18.8	36.21'
1	LT STA 8 +00	85.00'
1	LT STA 10 +00	50.00'
1	LT STA 10 +25	33.00'
1	RT STA 52 +40	33.00'
1	RT STA 52 +65	50.00'
1	LT STA 53 +00	33.00'
1	RT STA 54 +25	70.00'
1	LT STA 54 +25	80.00'
1	RT STA 54 +75	70.00'
1	LT STA 54 +75	80.00'
1	RT STA 56 +00	50.00'
1	LT STA 56 +00	50.00'
1	RT STA 56 +25	33.00'
1	LT STA 56 +25	33.00'
1	RT STA 178 +25	33.00'
1	LT STA 178 +40	33.00'
1	RT STA 178 +75	45.00'
1	LT STA 179 +00	45.00'
1	LT STA 180 +50	45.00'
1	RT STA 181 +20	45.00'
1	LT STA 181 +80	95.00'
1	LT STA 182 +60	95.00'
1	LT STA 183 +50	60.00'
1	RT STA 183 +50	60.00'
1	RT STA 185 +50	50.00'
1	LT STA 185 +60	50.00'
1	LT STA 185 +80	33.00'
1	RT STA 185 +84.00	32.97'
1	RT STA 224 +97.25	33.00'
1	RT STA 226 +00	55.00'
1	LT STA 226 +65	33.00'
1	LT STA 227 +00	55.00'
1	RT STA 227 +50	70.00'
1	LT STA 229 +45	55.00'
1	LT STA 229 +65	150.00'
1	LT STA 230 +65.54	155.71'
1	LT STA 231 +39.94	153.34'
1	RT STA 231 +50	60.00'
1	LT STA 232 +25	100.00'
1	RT STA 232 +82.35	70.00'
1	RT STA 233 +50	70.00'

1	RT STA	233 +90	70.00'
1	LT STA	234 +50	130.00'
1	LT STA	236 +00	45.00'
1	RT STA	236 +00	75.00'
1	LT STA	237 +50	50.00'
1	RT STA	239 +00	85.00'
1	LT STA	239 +40	50.00'
1	LT STA	239 +65	95.00'
1	LT STA	240 +35	95.00'
1	LT STA	240 +60	50.00'
1	RT STA	242 +00	80.00'
1	LT STA	242 +50	45.00'
1	LT STA	243 +50	45.00'
1	RT STA	244 +00	100.00'
1	LT STA	244 +50	65.00'
1	RT STA	244 +50	105.00'
1	LT STA	245 +50	33.00'
1	RT STA	246 +00	42.00'
1	LT STA	274 +00	37.77'
1	LT STA	274 +50	65.00'
1	RT STA	275 +75	33.00'
1	RT STA	276 +50	75.00'
1	RT STA	277 +50	90.00'
1	RT STA	281 +00	60.00'
1	LT STA	282 +00	60.00'
1	RT STA	282 +50	85.00'
1	RT STA	283 +00	33.00'
1	LT STA	284 +00	65.00'
1	LT STA	286 +50	55.00'
1	LT STA	286 +92.20	35.45'
1	RT STA	330 +25	33.00'
1	RT STA	330 +55	50.00'
1	LT STA	335 +00	33.00'
1	LT STA	335 +50	55.00'
1	RT STA	335 +90	50.00'
1	RT STA	336 +05	90.00'
1	RT STA	336 +30	90.00'
1	LT STA	336 +35	55.00'
1	RT STA	336 +50	60.00'
1	LT STA	336 +65	70.00'
1	RT STA	338 +00	60.00'
1	LT STA	339 +50	70.00'
1	LT STA	340 +00	32.59'
1	RT STA	340 +00	60.00'
1	RT STA	342 +00	60.00'
1	RT STA	342 +50	75.00'
1	RT STA	344 +00	95.00'
1	RT STA	347 +75	80.00'
1	LT STA	347 +80	33.00'
1	LT STA	347 +95	50.00'
1	RT STA	348 +50	75.00'
1	LT STA	349 +05	50.00'
1	RT STA	349 +10	48.77'
1	LT STA	349 +20	33.00'
1	RT STA	401 +50	33.00'
1	RT STA	402 +00	50.00'
1	LT STA	404 +40	40.00'
1	LT STA	404 +55	65.00'
1	LT STA	406 +00	70.00'
1	LT STA	407 +00	60.00'
1	LT STA	407 +20	40.00'
1	RT STA	407 +50	65.00'
1	RT STA	408 +00	33.00'
1	LT STA	434 +60	33.00'
1	RT STA	434 +70	33.00'
1	RT STA	434 +95	45.00'
1	LT STA	435 +20	80.00'

SCHEDULE OF QUANTITIES

1	LT STA	436 +15	80.00'
1	RT STA	436 +40	45.00'
1	RT STA	436 +75	33.00'
1	LT STA	436 +80	33.00'
1	LT STA	447 +25	35.16'
1	RT STA	447 +60	36.00'
1	LT STA	448 +00	105.00'
1	RT STA	448 +20	65.00'
1	LT STA	448 +25	105.00'
1	LT STA	448 +55	65.00'
1	RT STA	448 +55	65.00'
1	LT STA	449 +00	65.00'
1	LT STA	449 +20	34.34'
1	RT STA	449 +20	36.90'
1	LT STA	483 +50	33.00'
1	LT STA	484 +00	55.00'
1	RT STA	484 +00.01	33.00'
1	RT STA	484 +07.68	50.00'
1	LT STA	485 +00	55.00'
1	RT STA	485 +00	50.00'
1	LT STA	485 +30	33.00'
1	RT STA	485 +75	33.00'
1	RT STA	500 +40	33.00'
1	LT STA	500 +50	33.00'
1	LT STA	500 +75	55.00'
1	RT STA	501 +20	50.00'
1	RT STA	501 +50	50.00'
1	RT STA	501 +68.26	43.79'
1	RT STA	501 +68.68	33.00'
1	LT STA	503 +00	55.00'
1	LT STA	503 +19.58	32.79'
147	SUB-TOTAL		

Willow Road			
1	LT STA	40 +60	80.00'
1	LT STA	41 +50	80.00'
1	RT STA	42 +11.65	25.25'
1	LT STA	42 +69	24.80'
4	SUB-TOTAL		
151	GRAND TOTAL		

66700305 PERMANENT SURVEY MARKERS, TYPE II

EACH	LOCATION	REMARKS
13	Various	1 AT EACH CULVERT / 2 @ SN 043-1062
13	TOTAL	

70106700 TEMPORARY RUMBLE STRIP

EACH	LOCATION
Carroll County	
Sta Equation: Sta 1030+92.44 BK = Sta 0+00.00 AH	
1	RT STA 1015 +56.88
1	RT STA 1020 +56.88
1	RT STA 1025 +56.88
Jo Daviess County	
1	LT STA 15 +32
1	LT STA 20 +32
1	LT STA 25 +32
6	TOTAL

70300520 PAVEMENT MARKING TAPE, TYPE III 4"

FOOT	LOCATION	REMARKS
610.5	RT STA 1 +83 - 7 72	SN 043-1062 (Stage 3) - White
548.6	LT STA 2 +24.91 - 7 72	SN 043-1062 (Stage 2) - White
424.7	LT STA 2 +77 - 7 01	SN 043-1062 (Stage 3) - White
342.0	RT STA 3 +21 - 6 62.70	SN 043-1062 (Stage 2) - White
1,926	TOTAL	

70300570 PAVEMENT MARKING TAPE, TYPE III 24"

FOOT	LOCATION	REMARKS
8.8	RT STA 1 +64.44	SN 043-1062 (Stop Bar) - White
9.9	LT STA 8 +32	SN 043-1062 (Stop Bar) - White
19	TOTAL	

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

SQ FT	LOCATION	REMARKS
17.6	RT STA 1 +64.44	SN 043-1062 (Stop Bar)
203.5	RT STA 1 +83 - 7 72	SN 043-1062 (Edge Line)
182.9	LT STA 2 +24.91 - 7 72	SN 043-1062 (Edge Line)
141.6	LT STA 2 +77 - 7 01	SN 043-1062 (Edge Line)
114.0	RT STA 3 +21 - 6 62.70	SN 043-1062 (Edge Line)
19.8	LT STA 8 +32	SN 043-1062 (Stop Bar)
679	TOTAL	

70400100 TEMPORARY CONCRETE BARRIER

FOOT	LOCATION	REMARKS
275	STA 3 +49 - 6 23	SN 043-1062 (Stage 2)
25	STA 3 +24 - 3 49	SN 043-1062 (Stage 3)
25	STA 6 +23 - 6 48	SN 043-1062 (Stage 3)
325	TOTAL	

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

FOOT	LOCATION	REMARKS
275	STA 3 +49 - 6 23	SN 043-1062 (Stage 3)
275	TOTAL	

SCHEDULE OF QUANTITIES

78001110 PAINT PAVEMENT MARKING - LINE 4" (2 APPLICATIONS)

FOOT	LOCATION	REMARKS
IL RTE 78		
4,000	STA 1+00 - 11 00	White Edge Line
500	STA 1+00 - 11 00	Yellow Skip Dash
2,000	STA 52+00 - 57 00	White Edge Line
250	STA 52+00 - 57 00	Yellow Skip Dash
2,731	STA 177+50 - 186 50	White Edge Line
450	STA 177+50 - 186 50	Yellow Skip Dash
7,887	STA 224+75 - 245 50	White Edge Line
1,365	STA 224+75 - 230 20.8	Yellow Skip Dash/NPZ RT
6,117	STA 230+20.8 - 245 50	Double Yellow - NPZ LT & RT
5,200	STA 274+00 - 287 00	White Edge Line
5,200	STA 274+00 - 287 00	Double Yellow - NPZ LT & RT
8,600	STA 329+00 - 350 50	White Edge Line
4,202	STA 329+00 - 339 50.4	Double Yellow - NPZ LT & RT
2,508	STA 339+50.4 - 349 53.6	NPZ LT/Yellow Skip Dash
48	STA 349+53.6 - 350 50	Yellow Skip Dash
3,000	STA 401+00 - 408 50	White Edge Line
1,654	STA 401+00 - 407 61.6	Yellow Skip Dash/NPZ RT
44	STA 407+61.6 - 408 50	Yellow Skip Dash
1,400	STA 434+00 - 437 50	White Edge Line
1,400	STA 434+00 - 437 50	Double Yellow - NPZ LT & RT
1,200	STA 446+50 - 449 50	White Edge Line
1,200	STA 446+50 - 449 50	Double Yellow - NPZ LT & RT
2,000	STA 481+50 - 486 50	White Edge Line
250	STA 481+50 - 486 50	Yellow Skip Dash
2,400	STA 498+00 - 504 00	White Edge Line
300	STA 498+00 - 504 00	Yellow Skip Dash
65,905	SUB-TOTAL	
Willow Road		
1,174	STA 40+10.5 - 42 50	White Edge Line
1,174	SUB-TOTAL	
Bethel Road		
979	STA 88+00 - 89 89.31	White Edge Line
979	SUB-TOTAL	
68,058	GRAND TOTAL	

78200410 GUARDRAIL MARKERS TYPE A

EACH	LOCATION	REMARKS
24	LT STA 232+00 - 243 50	
7	LT STA 277+00 - 280 12.5	
12	RT STA 331+12.5 - 336 62.5	
43	TOTAL	

78201000 TERMINAL MARKER - DIRECT APPLIED

EACH	LOCATION	REMARKS
1	LT STA 231+50	
1	LT STA 244+00	
1	LT STA 276+50	
1	LT STA 280+62.5	
1	RT STA 330+62.5	
1	RT STA 337+12.5	
6	TOTAL	

78300105 PAVEMENT MARKING REMOVAL

FOOT	LOCATION	REMARKS
668	STA 1+64.44 - 8 32	SN 043-1062 - Existing White Edge Line
167	STA 1+64.44 - 8 32	SN 043-1062 - Existing Yellow Skip Dash
834	TOTAL	

XX001135 PAVEMENT PATCHING SPECIAL

SO YD	LOCATION	REMARKS
55.6	STA 54+24 - 54 74	SN 043-1082: Stage 2
111.1	STA 54+24 - 54 74	SN 043-1082: Stage 3
70.0	STA 182+74 - 183 21	SN 043-1063: Stage 1
96.1	STA 182+74 - 183 21	SN 043-1063: Stage 2
41.5	STA 404+52 - 404 90	SN 043-1066: Stage 1
74.5	STA 404+52 - 404 90	SN 043-1066: Stage 2
58.5	STA 448+13 - 448 63	SN 043-1068: Stage 2
117.0	STA 448+13 - 448 63	SN 043-1068: Stage 3
127.4	STA 483+88 - 484 43	SN 043-1069: Stage 2
63.7	STA 483+88 - 484 43	SN 043-1069: Stage 3
60.4	STA 500+87 - 501 47	SN 043-1070: Stage 2
120.8	STA 500+87 - 501 47	SN 043-1070: Stage 3
997	TOTAL	

X0323660 DROP BOX NO. 1

EACH	LOCATION	REMARKS
1	LT STA 336+17.6	SN 043-1079
1	TOTAL	

X0323661 DROP BOX NO. 2

EACH	LOCATION	REMARKS
1	LT STA 348+33.8	SN 043-1065
1	TOTAL	

X0323662 DROP BOX NO. 3

EACH	LOCATION	REMARKS
1	RT STA 435+71.80	SN 043-1067
1	TOTAL	

X0323663 DROP BOX NO. 4

EACH	LOCATION	REMARKS
1	RT STA 484+22.22	SN 043-1069
1	TOTAL	

X0323664 DROP BOX NO. 5

EACH	LOCATION	REMARKS
1	RT STA 501+14.74	SN 043-1070
1	TOTAL	

SCHEDULE OF QUANTITIES

Z0025519 DRAIN FOR AGGREGATE BASE COURSE

SQ YD	LOCATION	REMARKS
1.2	RT/LT STA 41 + 25	WILLOW ROAD
1.5	RT/LT STA 89 + 00	BETHEL ROAD
2.7	TOTAL	

Z0005400 BREAKER-RUN CRUSHED STONE

TON	LOCATION	REMARKS
92.0	STA 182 + 98.97	18" Additional Bedding Depth/24" Total
12.9	LT/RT STA 278 + 24.12	* 6" Additional Bedding Depth/12" Total
1.3	LT/RT STA 336 + 17.63	* 6" Additional Bedding Depth/12" Total
32.6	STA 404 + 70.72	12" Additional Bedding Depth/18" Total
3.1	LT/RT STA 435 + 71.80	* 6" Additional Bedding Depth/12" Total
36.1	STA 448 + 28.40	6" Additional Bedding Depth/12" Total
79.8	STA 484 + 22.22	6" Additional Bedding Depth/12" Total
133.0	STA 501 + 14.74	18" Additional Bedding Depth/24" Total
391	TOTAL	

**** NOTE: ADDITIONAL BEDDING IS FOR END SECTION(S) AND/OR DROP BOX ONLY (INSERTION CULVERT LINER LOCATION)

Z0023600 FILLING EXISTING CULVERTS

EACH	LOCATION	REMARKS
1	STA 240 + 05.36	PLUG EXISTING
1	STA 334 + 29.71	PLUG EXISTING
1	STA 448 + 48.50	PLUG EXISTING
1	LT STA 501 + 17	TEMP 36" CMP - STAGE II
4	TOTAL	

Z0025500 FURNISHING AND INSTALLING PROPERTY MARKERS

EACH	LOCATION
5	Contingency
5	TOTAL

Z0028415 GEOTECHNICAL REINFORCEMENT

SQ YD	LOCATION	REMARKS
1,053.7	STA 40 + 10.5 - 42 50	WILLOW ROAD
857.5	STA 88 + 00 - 89 89.31	BETHEL ROAD
1,911.	TOTAL	

Z0029001 GRATED CULVERT EXTENSION NO. 1

EACH	LOCATION	REMARKS
2	RT/LT STA 182 + 98.97	SN 043-1063
2	TOTAL	

Z0029002 GRATED CULVERT EXTENSION NO. 2

EACH	LOCATION	REMARKS
1	RT STA 448 + 28.40	SN 043-1068
1	TOTAL	

Z0029003 GRATED CULVERT EXTENSION NO. 3

EACH	LOCATION	REMARKS
1	LT STA 484 + 22.22	SN 043-1069
1	TOTAL	

Z0029004 GRATED CULVERT EXTENSION NO. 4

EACH	LOCATION	REMARKS
1	LT STA 501 + 14.74	SN 043-1070
1	TOTAL	

Z0030250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

EACH	LOCATION	REMARKS
1	STA 3 + 28.83 - 3 48.83	SN 043-1062 (Stage 2)
1	STA 6 + 23.22 - 6 43.22	SN 043-1062 (Stage 2)
1	STA 6 + 48.22 - 6 68.22	SN 043-1062 (Stage 3) - Absorb 350
3	TOTAL	

Z0030350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

EACH	LOCATION	REMARKS
1	STA 3 + 03.83 - 3 23.83	SN 043-1062 (Stage 3)
1	TOTAL	

Z5100900 TURF REINFORCEMENT MAT

SQ YD	LOCATION	REMARKS
186.4	LT STA 4 + 53.20 - 5 41.20	SN 043-1062
733.1	RT STA 183 + 21.00 - 186 00	SN 043-1063 - Along Gravel Parking Lot
919	TOTAL	

CORRUGATED STEEL PIPE MULTIPLE END SECTIONS EQUIVALENT DOUBLE ROUND-SIZE 36"

EACH	LOCATION	REMARKS
2	IL ROUTE 78 LT STA 182 + 40.98	FE over Channel- Twin Culverts
2	WILLOW ROAD LT STA 41 + 16.00	CE - Twin Culverts
4	TOTAL	

AGGREGATE & HOT-MIX ASPHALT SCHEDULE

AGGREGATE & HOT-MIX ASPHALT SCHEDULE

IL ROUTE 78/SIDEROADS/ENTRANCES

LOCATION	REMARKS	LENGTH	SURFACE AREAS			31100910	35101400	40603310	40800050	48100100	48203021	X0325911
			PAVEMENT	SHOULDER		SUB-BASE GRANULAR MATERIAL, TYPE A 12"	AGGREGATE BASE COURSE, TYPE B	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	INCIDENTAL HOT-MIX ASPHALT SURFACING	AGGREGATE SHOULDERS, TYPE A	HOT-MIX ASPHALT SHOULDERS, 6"	HOT-MIX ASPHALT SURFACE COURSE, SPECIAL
				OVERALL AREA	HOT-MIX ASPHALT AREA							
			FT.	SQ. YD.	SQ. YD.	SQ. YD.	SQ. YD.	TON	TON - 2"	TON	TON - 6"	SQ. YD.
IL ROUTE 78												
1+29.00 - 2+38.09	LT SUB-BASE FOR GUTTER	109.09	---	---	58.08	58.08	---	---	---	---	---	---
2+50.00 - 7+00.00	RT STAGING SHOULDER	450	---	243.8	---	293.8	---	---	---	---	---	40.96
2+38.09 - 10+00.00	LT STAGING SHOULDER	761.91	---	525.7	---	610.4	---	---	---	---	---	88.32
52+80.00 - 56+20.00	LT STAGING SHOULDER	340	---	---	316.4	---	---	---	108.1	---	---	---
53+07.70 - 56+20.00	RT STAGING SHOULDER	312.3	---	---	309.5	---	---	---	105.7	---	---	---
178+00.00 - 186+00.00	LT & RT STAGING SHOULDERS	800	---	---	1387.0	---	---	---	473.9	---	---	---
225+00.00 - 245+50.00	RT SHOULDER	2050	---	---	1656.8	---	---	---	566.1	---	---	---
226+50.00 - 230+43.04	LT SHOULDER	393.04	---	---	274.8	---	---	---	93.9	---	---	---
231+10.37 - 245+50.00	LT GUARDRAIL SHOULDER	1439.63	---	1988.7	57.6	---	---	222.73	19.7	1988.7	---	---
274+00.00 - 287+00.00	LT GUARDRAIL SHOULDER	1300	---	992.0	524.9	---	---	111.10	179.3	992.0	---	---
276+00.00 - 283+00.00	RT SHOULDER	700	---	---	607.5	---	---	---	207.6	---	---	---
329+70.21 - 349+31.63	RT SHOULDER	1961.42	---	1032.3	802.0	---	---	115.62	274.0	1032.3	---	---
332+87.07 - 334+36.07	LT SHOULDER	149	---	---	91.1	---	---	---	31.1	---	---	---
334+77.21 - 340+00.00	LT SHOULDER	522.79	---	---	424.5	---	---	---	145.0	---	---	---
347+65.00 - 349+50.00	LT SHOULDER	185	---	---	135.3	---	---	---	46.2	---	---	---
347+84.77 - 349+31.63	RT SHOULDER	146.86	---	---	135.2	---	---	---	46.2	---	---	---
401+50.00 - 408+00.00	RT SHOULDER	650	---	---	692.4	---	---	---	236.6	---	---	---
403+00.00 - 407+50.00	LT SHOULDER	450	---	---	373.1	---	---	---	127.5	---	---	---
434+50.00 - 437+00.00	RT SHOULDER	250	---	---	189.8	---	---	---	64.8	---	---	---
434+50.00 - 436+65.00	LT SHOULDER	215	---	---	149.9	---	---	---	51.2	---	---	---
447+00.00 - 449+25.00	LT SHOULDER	225	---	---	148.8	---	---	---	50.8	---	---	---
447+50.00 - 449+25.00	RT SHOULDER	175	---	---	215.4	---	---	---	73.6	---	---	---
482+00.00 - 485+50.00	LT SHOULDER	350	---	---	257.9	---	---	---	88.1	---	---	---
482+00.00 - 486+00.00	RT SHOULDER	400	---	---	370.2	---	---	---	126.5	---	---	---
498+50.00 - 503+50.00	LT SHOULDER	500	---	---	531.8	---	---	---	181.7	---	---	---
500+60.84 - 501+87.57	RT SHOULDER	126.73	---	---	103.4	---	---	---	35.3	---	---	---
WILLOW ROAD												
40+10.47 - 42+50.00		239.53	1000.7	---	111.9	---	683.8	---	196.13	38.2	---	---
BETHEL ROAD												
88+00.00 - 89+89.31		189.31	815.4	---	144.0	---	557.2	---	159.83	49.2	---	---
ENTRANCES		SEE ENTRANCE SCHEDULE	---	---	---	---	949.32	---	72.03	---	---	---
TOTAL			1,816	4,782	10,069	962	2,190	449	428	3,420	4,013	129

SEEDING SCHEDULE

SEEDING, CLASS 2a SCHEDULE

SEEDING, CLASS 1 SCHEDULE

LOCATION	DISTANCE	SURFACE AREA - LT		SEEDING CLASS 1	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MOWING	MULCH METHOD 2	TEMPORARY EROSION CONTROL SEEDING
		FEET	SQ. FT.							
JO DAVIESS										
IL 78										
499 + 00.00 - 499 + 50.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.000	0.00
499 + 50.00 - 500 + 00.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.000	0.00
500 + 00.00 - 500 + 50.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.000	0.00
500 + 50.00 - 501 + 00.00	50	495	495	0.023	2.05	2.05	2.05	0.023	0.023	18.18
501 + 00.00 - 501 + 14.74	14.74	274	274	0.013	1.13	1.13	1.13	0.013	0.013	10.06
501 + 14.74 - 501 + 50.00	35.26	678	678	0.031	2.80	2.80	2.80	0.031	0.031	24.90
501 + 50.00 - 502 + 00.00	50	527	527	0.024	2.18	2.18	2.18	0.024	0.024	19.36
502 + 00.00 - 502 + 50.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.000	0.00
502 + 50.00 - 503 + 00.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.000	0.00
SUB-TOTAL					8	8	8	0.09	0.09	73
CLASS 1 SEEDING					0.09					

SEEDING, CLASS 2a SCHEDULE

LOCATION	DISTANCE	SURFACE AREA - LT		SEEDING CLASS 2a	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MOWING	MULCH METHOD 2	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING
		FEET	SQ. FT.								
JO DAVIESS											
IL 78											
1 + 29.00 - 1 + 50.00	21	0	0	0.000	0.00	0.00	0.00	0.000	0.000		0.00
1 + 50.00 - 1 + 84.91	34.91	0	0	0.000	0.00	0.00	0.00	0.000	0.000		0.00
1 + 84.91 - 2 + 00.00	15.09	72	0	0.002	0.15	0.15	0.15	0.002	0.002		1.32
2 + 00.00 - 2 + 50.00	50	773	403	0.027	2.43	2.43	2.43	0.027	0.027		21.60
2 + 50.00 - 3 + 00.00	50	915	1107	0.046	4.18	4.18	4.18	0.046	0.046		37.13
3 + 00.00 - 3 + 50.00	50	1235	1533	0.064	5.72	5.72	5.72	0.064	0.064		50.84
3 + 50.00 - 4 + 00.00	50	1901	1844	0.086	7.74	7.74	7.74	0.086	0.086		68.78
4 + 00.00 - 4 + 50.00	50	2132	2112	0.097	8.77	8.77	8.77	0.097	0.097		77.94
4 + 50.00 - 4 + 86.61	36.61	1517	1158	0.061	5.53	5.53	5.53	0.061	0.061		49.13
4 + 86.61 - 5 + 00.00	13.39	544	371	0.021	1.89	1.89	1.89	0.021	0.021		16.80
5 + 00.00 - 5 + 29.58	29.58	1014	533	0.036	3.20	3.20	3.20	0.036	0.036		28.41
5 + 29.58 - 5 + 50.00	20.44	274	111	0.009	0.80	0.80	0.80	0.009	0.009		7.07
5 + 50.00 - 5 + 53.18	3.18	0	17	0.000	0.04	0.04	0.04	0.000	0.000		0.31
5 + 53.18 - 6 + 00.00	46.82	462	71	0.012	1.08	1.08	1.08	0.012	0.012		9.61
6 + 00.00 - 6 + 50.00	50	972	160	0.026	2.34	2.34	2.34	0.026	0.026		20.79
6 + 50.00 - 7 + 00.00	50	973	128	0.025	2.27	2.27	2.27	0.025	0.025		20.22
7 + 00.00 - 7 + 50.00	50	1121	43	0.027	2.40	2.40	2.40	0.027	0.027		21.38
7 + 50.00 - 8 + 00.00	50	1275	0	0.029	2.63	2.63	2.63	0.029	0.029		23.42
8 + 00.00 - 8 + 50.00	50	1275	0	0.029	2.63	2.63	2.63	0.029	0.029		23.42
8 + 50.00 - 9 + 00.00	50	1275	0	0.029	2.63	2.63	2.63	0.029	0.029		23.42
9 + 00.00 - 9 + 50.00	50	1275	0	0.029	2.63	2.63	2.63	0.029	0.029		23.42
9 + 50.00 - 10 + 00.00	50	1172	0	0.027	2.42	2.42	2.42	0.027	0.027		21.52
40 + 35.79 - 40 + 50.00	14.21	254	12	0.006	0.55	0.55	0.55	0.006	0.006		4.89
40 + 50.00 - 40 + 75.00	25	712	846	0.031	2.81	2.81	2.81	0.031	0.031		24.94
40 + 75.00 - 41 + 00.00	25	367	921	0.027	2.45	2.45	2.45	0.027	0.027		21.82
41 + 00.00 - 41 + 15.27	15.27	0	114	0.003	0.24	0.24	0.24	0.003	0.003		2.09
41 + 15.27 - 41 + 25.00	8.73	133	56	0.004	0.39	0.39	0.39	0.004	0.004		3.47
41 + 25.00 - 41 + 50.00	25	773	305	0.025	2.23	2.23	2.23	0.025	0.025		19.80
41 + 50.00 - 41 + 75.00	25	700	314	0.023	2.10	2.10	2.10	0.023	0.023		18.62
41 + 75.00 - 42 + 00.00	25	581	338	0.021	1.90	1.90	1.90	0.021	0.021		16.88
42 + 00.00 - 42 + 25.00	25	415	345	0.017	1.57	1.57	1.57	0.017	0.017		13.96
52 + 85.34 - 53 + 00.00	14.66	119	0	0.003	0.25	0.25	0.25	0.003	0.003		2.19
53 + 00.00 - 53 + 50.00	50	521	298	0.019	1.69	1.69	1.69	0.019	0.019		15.04
53 + 50.00 - 54 + 00.00	50	848	766	0.037	3.33	3.33	3.33	0.037	0.037		29.64
54 + 00.00 - 54 + 49.40	49.40	1088	923	0.046	4.15	4.15	4.15	0.046	0.046		36.93
54 + 49.40 - 55 + 00.00	50.6	1152	1036	0.050	4.52	4.52	4.52	0.050	0.050		40.18
55 + 00.00 - 55 + 50.00	50	974	994	0.045	4.07	4.07	4.07	0.045	0.045		36.14
55 + 50.00 - 56 + 00.00	50	758	772	0.035	3.16	3.16	3.16	0.035	0.035		28.10
88 + 50.00 - 89 + 00.00	50	719	2416	0.072	6.48	6.48	6.48	0.072	0.072		57.58
89 + 00.00 - 89 + 50.00	50	560	3821	0.101	9.05	9.05	9.05	0.101	0.101		80.46

LOCATION	DISTANCE	SURFACE AREA - LT		SEEDING CLASS 2a	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MOWING	MULCH METHOD 2	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING
		FEET	SQ. FT.								
JO DAVIESS											
IL 78											
178 + 00.00 - 178 + 50.00	50	339	439	0.018	1.61	1.61	1.61	0.018	0.018		14.29
178 + 50.00 - 179 + 00.00	50	538	631	0.027	2.42	2.42	2.42	0.027	0.027		21.47
179 + 00.00 - 179 + 50.00	50	533	616	0.026	2.37	2.37	2.37	0.026	0.026		21.10
179 + 50.00 - 180 + 00.00	50	580	680	0.029	2.60	2.60	2.60	0.029	0.029		23.14
180 + 00.00 - 180 + 50.00	50	688	671	0.031	2.81	2.81	2.81	0.031	0.031		24.96
180 + 50.00 - 181 + 00.00	50	797	814	0.032	2.92	2.92	2.92	0.032	0.032		25.91
181 + 00.00 - 181 + 50.00	50	921	675	0.037	3.30	3.30	3.30	0.037	0.037		29.31
181 + 50.00 - 182 + 00.00	50	1047	255	0.032	2.90	2.90	2.90	0.032	0.032		25.75
182 + 00.00 - 182 + 40.37	40.37	447	0	0.010	0.92	0.92	0.92	0.010	0.010		8.21
182 + 40.37 - 182 + 50.00	9.63	0	0	0.000	0.00	0.00	0.00	0.000	0.000		0.00
182 + 50.00 - 182 + 98.97	48.97	187	73	0.006	0.54	0.54	0.54	0.006	0.006		4.78
182 + 98.97 - 183 + 00.00	1.03	17	2	0.000	0.04	0.04	0.04	0.000	0.000		0.35
183 + 00.00 - 183 + 50.00	50	1215	201	0.033	2.93	2.93	2.93	0.033	0.033		26.01
183 + 50.00 - 184 + 00.00	50	1154	690	0.042	3.81	3.81	3.81	0.042	0.042		33.87
184 + 00.00 - 184 + 50.00	50	1050	939	0.046	4.11	4.11	4.11	0.046	0.046		36.53
184 + 50.00 - 185 + 00.00	50	955	860	0.042	3.75	3.75	3.75	0.042	0.042		33.33
185 + 00.00 - 185 + 50.00	50	856	790	0.038	3.40	3.40	3.40	0.038	0.038		30.23
185 + 50.00 - 186 + 00.00	50	544	596	0.026	2.36	2.36	2.36	0.026	0.026		20.94
224 + 74.97 - 225 + 00.00	25.03	0	214	0.005	0.44	0.44	0.44	0.005	0.005		3.93
225 + 00.00 - 225 + 50.00	50	0	588	0.013	1.21	1.21	1.21	0.013	0.013		10.80
225 + 50.00 - 226 + 00.00	50	0	595	0.013	1.15	1.15	1.15	0.013	0.013		10.21
226 + 00.00 - 226 + 50.00	50	0	631	0.014	1.30	1.30	1.30	0.014	0.014		11.59
226 + 50.00 - 227 + 00.00	50	272	733	0.023	2.08	2.08	2.08	0.023	0.023		18.46
227 + 00.00 - 227 + 50.00	50	643	890	0.035	3.17	3.17	3.17	0.035	0.035		28.15
227 + 50.00 - 228 + 00.00	50	787	996	0.041	3.68	3.68	3.68	0.041	0.041		32.75
228 + 00.00 - 228 + 50.00	50	894	988	0.043	3.89	3.89	3.89	0.043	0.043		34.56
228 + 50.00 - 229 + 00.00	50	677	963	0.038	3.39	3.39	3.39	0.038	0.038		30.12
229 + 00.00 - 229 + 50.00	50	654	984	0.038	3.38	3.38	3.38	0.038	0.038		30.08
229 + 50.00 - 230 + 00.00	50	1572	506	0.048	4.29	4.29	4.29	0.048	0.048		38.16
230 + 00.00 - 230 + 16.88	16.88	377	85	0.011	0.95	0.95	0.95	0.011	0.011		8.48

SEEDING SCHEDULE

SEEDING, CLASS 2a SCHEDULE

LOCATION	DISTANCE	SURFACE AREA - LT	SURFACE AREA - RT	25000210	25000400	25000500	25000600	25000750	25100115	25100630	28000250
				SEEDING CLASS 2a	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MOWING	MULCH METHOD 2	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING
	FEET	SO. FT.	SO. FT.	ACRE	POUND	POUND	POUND	ACRE	ACRE	SO. YD	POUND
JO DAVISS											
IL 78											
330+00.00 - 330+50.00	50	0	622	0.014	1.29	1.29	1.29	0.014	0.014		11.42
330+50.00 - 331+00.00	50	0	495	0.011	1.02	1.02	1.02	0.011	0.011		9.09
331+00.00 - 331+50.00	50	0	515	0.012	1.06	1.06	1.06	0.012	0.012		9.46
331+50.00 - 332+00.00	50	0	483	0.011	1.00	1.00	1.00	0.011	0.011		8.87
332+00.00 - 332+50.00	50	0	386	0.009	0.80	0.80	0.80	0.009	0.009		7.09
332+50.00 - 333+00.00	50	238	329	0.013	1.16	1.16	1.16	0.013	0.013	10.32	10.32
333+00.00 - 333+50.00	50	330	349	0.016	1.40	1.40	1.40	0.016	0.016		12.47
333+50.00 - 334+00.00	50	262	316	0.013	1.19	1.19	1.19	0.013	0.013		10.62
334+00.00 - 334+50.00	50	164	646	0.019	1.67	1.67	1.67	0.019	0.019		14.88
334+50.00 - 335+00.00	50	244	686	0.021	1.92	1.92	1.92	0.021	0.021		17.08
335+00.00 - 335+50.00	50	466	370	0.019	1.73	1.73	1.73	0.019	0.019		15.35
335+50.00 - 336+00.00	50	611	439	0.024	2.17	2.17	2.17	0.024	0.024		19.28
336+00.00 - 336+17.63	17.63	266	344	0.014	1.26	1.26	1.26	0.014	0.014		11.20
336+17.63 - 336+50.00	32.37	486	628	0.026	2.30	2.30	2.30	0.026	0.026		20.46
336+50.00 - 337+00.00	50	771	561	0.031	2.75	2.75	2.75	0.031	0.031		24.46
337+00.00 - 337+50.00	50	771	665	0.033	2.97	2.97	2.97	0.033	0.033		26.37
337+50.00 - 338+00.00	50	767	638	0.032	2.90	2.90	2.90	0.032	0.032		25.80
338+00.00 - 338+50.00	50	737	689	0.033	2.95	2.95	2.95	0.033	0.033		26.19
338+50.00 - 339+00.00	50	684	810	0.034	3.09	3.09	3.09	0.034	0.034		27.44
339+00.00 - 339+50.00	50	591	840	0.033	2.96	2.96	2.96	0.033	0.033		26.28
339+50.00 - 340+00.00	50	263	968	0.026	2.34	2.34	2.34	0.026	0.026		20.77
340+00.00 - 340+50.00	50	901	901	0.021	1.86	1.86	1.86	0.021	0.021	100.11	100.11
340+50.00 - 341+00.00	50	0	1120	0.026	2.31	2.31	2.31	0.026	0.026	124.44	124.44
341+00.00 - 341+50.00	50	0	1359	0.031	2.81	2.81	2.81	0.031	0.031	151.00	151.00
341+50.00 - 342+00.00	50	0	1192	0.027	2.46	2.46	2.46	0.027	0.027	132.44	132.44
342+00.00 - 342+50.00	50	0	1662	0.038	3.43	3.43	3.43	0.038	0.038	194.67	194.67
342+50.00 - 343+00.00	50	0	1623	0.037	3.35	3.35	3.35	0.037	0.037	190.33	190.33
343+00.00 - 343+50.00	50	0	858	0.020	1.77	1.77	1.77	0.020	0.020	95.33	95.33
343+50.00 - 344+00.00	50	0	1866	0.043	3.86	3.86	3.86	0.043	0.043	207.33	207.33
344+00.00 - 344+50.00	50	0	2853	0.065	5.89	5.89	5.89	0.065	0.065	317.00	317.00
344+50.00 - 345+00.00	50	0	2756	0.063	5.69	5.69	5.69	0.063	0.063	306.22	306.22
345+00.00 - 345+50.00	50	0	2726	0.063	5.63	5.63	5.63	0.063	0.063	302.89	302.89
345+50.00 - 346+00.00	50	0	2731	0.063	5.64	5.64	5.64	0.063	0.063	303.44	303.44
346+00.00 - 346+50.00	50	0	2723	0.063	5.63	5.63	5.63	0.063	0.063	302.56	302.56
346+50.00 - 347+00.00	50	0	2385	0.055	4.93	4.93	4.93	0.055	0.055	265.00	265.00
347+00.00 - 347+50.00	50	0	1343	0.031	2.77	2.77	2.77	0.031	0.031	149.22	149.22
347+50.00 - 347+58.27	18.27	0	113	0.003	0.23	0.23	0.23	0.003	0.003	12.56	12.56
347+58.27 - 348+00.00	31.73	267	509	0.010	1.60	1.60	1.60	0.010	0.010	86.22	86.22
348+00.00 - 348+33.81	33.81	533	1071	0.037	3.31	3.31	3.31	0.037	0.037	178.22	178.22
348+33.81 - 348+50.00	16.19	249	579	0.019	1.71	1.71	1.71	0.019	0.019	92.00	92.00
348+50.00 - 349+00.00	50	401	1410	0.042	3.74	3.74	3.74	0.042	0.042	201.22	201.22
349+00.00 - 349+50.00	50	0	405	0.009	0.84	0.84	0.84	0.009	0.009	45.00	45.00
402+00.00 - 402+50.00	50	0	763	0.018	1.58	1.58	1.58	0.018	0.018		14.01
402+50.00 - 402+77.09	27	0	205	0.005	0.42	0.42	0.42	0.005	0.005		3.76
402+77.09 - 403+00.00	23	0	199	0.005	0.41	0.41	0.41	0.005	0.005		3.65
403+00.00 - 403+50.00	50	285	811	0.025	2.26	2.26	2.26	0.025	0.025		20.13
403+50.00 - 404+00.00	50	708	759	0.034	3.03	3.03	3.03	0.034	0.034		26.94
404+00.00 - 404+50.00	50	949	947	0.044	3.92	3.92	3.92	0.044	0.044		34.82
404+50.00 - 404+70.72	20.72	312	669	0.023	2.03	2.03	2.03	0.023	0.023		18.02
404+70.72 - 405+00.00	29.28	526	1028	0.036	3.21	3.21	3.21	0.036	0.036		28.54
405+00.00 - 405+50.00	50	1232	1244	0.057	5.12	5.12	5.12	0.057	0.057		45.47
405+50.00 - 406+00.00	50	1042	1004	0.047	4.23	4.23	4.23	0.047	0.047		37.58
406+00.00 - 406+50.00	50	865	849	0.039	3.54	3.54	3.54	0.039	0.039		31.48
406+50.00 - 407+00.00	50	772	739	0.035	3.12	3.12	3.12	0.035	0.035		27.75
407+00.00 - 407+50.00	50	386	746	0.026	2.34	2.34	2.34	0.026	0.026		20.79
435+00.00 - 435+50.00	50	2163	1241	0.078	7.03	7.03	7.03	0.078	0.078		62.52
435+50.00 - 435+71.80	21.8	882	473	0.031	2.80	2.80	2.80	0.031	0.031		24.89
435+71.80 - 436+00.00	28.2	1047	630	0.038	3.46	3.46	3.46	0.038	0.038		30.80
436+00.00 - 436+50.00	50	1638	1174	0.065	5.81	5.81	5.81	0.065	0.065		51.64
447+50.00 - 448+00.00	50	1926	688	0.060	5.40	5.40	5.40	0.060	0.060		48.01
448+00.00 - 448+28.40	28.4	1419	665	0.048	4.31	4.31	4.31	0.048	0.048		38.27
448+28.40 - 448+50.00	21.6	41	574	0.014	1.27	1.27	1.27	0.014	0.014		11.29
448+50.00 - 449+00.00	50	1709	1514	0.074	6.66	6.66	6.66	0.074	0.074		59.19
482+50.00 - 483+00.00	50	937	652	0.036	3.28	3.28	3.28	0.036	0.036		29.18
483+00.00 - 483+50.00	50	842	529	0.031	2.83	2.83	2.83	0.031	0.031		25.18
483+50.00 - 484+00.00	50	1069	422	0.034	3.08	3.08	3.08	0.034	0.034		27.38
484+00.00 - 484+15.00	15	720	202	0.021	1.90	1.90	1.90	0.021	0.021		16.53
484+15.00 - 484+22.22	7.22	436	77	0.012	1.06	1.06	1.06	0.012	0.012		9.42
484+22.22 - 484+50.00	27.78	1080	311	0.032	2.87	2.87	2.87	0.032	0.032		25.55
484+50.00 - 485+00.00	50	1243	870	0.049	4.37	4.37	4.37	0.049	0.049		38.81
485+00.00 - 485+50.00	50	587	829	0.033	2.93	2.93	2.93	0.033	0.033		26.01
499+00.00 - 499+50.00	50	485	0	0.011	1.00	1.00	1.00	0.011	0.011		8.91
499+50.00 - 500+00.00	50	504	0	0.012	1.04	1.04	1.04	0.012	0.012		9.26
500+00.00 - 500+50.00	50	509	0	0.012	1.05	1.05	1.05	0.012	0.012		9.35
500+50.00 - 501+00.00	50	951	0	0.022	1.96	1.96	1.96	0.022	0.022		17.47
501+00.00 - 501+14.74	14.74	285	0	0.007	0.59	0.59	0.59	0.007	0.007		5.23
501+14.74 - 501+50.00	35.26	526	0	0.012	1.09	1.09	1.09	0.012	0.012		9.66
501+50.00 - 502+00.00	50	1060	0	0.024	2.19	2.19	2.19	0.024	0.024		19.47
502+00.00 - 502+50.00	50	1305	0	0.030	2.70	2.70	2.70	0.030	0.030		23.57
502+50.00 - 503+00.00	50	1545	0	0.035	3.19	3.19	3.19	0.035	0.035		28.37
SUB-TOTAL					652	652	652	7.25	7.25		5.797
GRAND TOTAL								7.34		18,710	
CLASS 2a SEEDING											

SEEDING, CLASS 4 SCHEDULE

LOCATION	DISTANCE	SURFACE AREA - LT	SURFACE AREA - RT	25000310	25000400	25000500	250
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SEEDING SCHEDULE

SEEDING, CLASS 4 SCHEDULE

LOCATION	DISTANCE FEET	SURFACE AREA		SEEDING CLASS 4 ACRE	NITROGEN FERTILIZER POUND	PHOSPHORUS FERTILIZER POUND	POTASSIUM FERTILIZER POUND	MULCH METHOD 2 ACRE	TEMPORARY EROSION CONTROL SEEDING POUND
		AREA - LT SQ. FT.	AREA - RT SQ. FT.						
		25000310	25000400						
JO DAVIESS									
IL 78									
236+00.00 - 236+50.00	50	0	1241	0.028	2.56	2.56	2.56	0.028	22.79
236+50.00 - 237+00.00	50	115	1299	0.032	2.92	2.92	2.92	0.032	25.97
237+00.00 - 237+50.00	50	331	1426	0.040	3.63	3.63	3.63	0.040	32.27
237+50.00 - 238+00.00	50	437	1607	0.047	4.22	4.22	4.22	0.047	37.54
238+00.00 - 238+50.00	50	221	1694	0.044	3.96	3.96	3.96	0.044	35.17
238+50.00 - 239+00.00	50	0	1777	0.041	3.67	3.67	3.67	0.041	32.64
239+00.00 - 239+50.00	50	0	1987	0.039	3.49	3.49	3.49	0.039	30.98
239+50.00 - 240+00.00	50	0	1230	0.028	2.52	2.52	2.52	0.028	22.41
240+00.00 - 240+06.10	6.1	0	108	0.002	0.22	0.22	0.22	0.002	1.98
240+06.10 - 240+50.00	43.9	0	614	0.014	1.27	1.27	1.27	0.014	11.28
240+50.00 - 241+00.00	50	0	728	0.017	1.50	1.50	1.50	0.017	13.37
241+00.00 - 241+50.00	50	0	1168	0.027	2.41	2.41	2.41	0.027	21.45
241+50.00 - 242+00.00	50	0	1526	0.035	3.15	3.15	3.15	0.035	28.03
242+00.00 - 242+50.00	50	0	1422	0.033	2.94	2.94	2.94	0.033	26.12
242+50.00 - 243+00.00	50	0	1322	0.030	2.73	2.73	2.73	0.030	24.28
243+00.00 - 243+50.00	50	0	1906	0.041	3.73	3.73	3.73	0.041	33.17
243+50.00 - 244+00.00	50	0	2444	0.056	5.05	5.05	5.05	0.056	44.89
244+00.00 - 244+50.00	50	0	2772	0.064	5.73	5.73	5.73	0.064	50.91
244+50.00 - 245+00.00	50	0	2490	0.057	5.14	5.14	5.14	0.057	45.73
274+50.00 - 275+00.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
275+00.00 - 275+50.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
275+50.00 - 276+00.00	50	0	61	0.001	0.13	0.13	0.13	0.001	1.12
276+00.00 - 276+50.00	50	0	1993	0.025	2.26	2.26	2.26	0.025	20.07
276+50.00 - 277+00.00	50	0	1775	0.021	2.67	2.67	2.67	0.021	22.60
277+00.00 - 277+50.00	50	0	743	0.017	1.54	1.54	1.54	0.017	13.65
277+50.00 - 278+00.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
278+00.00 - 278+24.12	24.12	0	873	0.020	1.80	1.80	1.80	0.020	16.03
278+24.12 - 278+50.00	25.88	0	937	0.022	1.94	1.94	1.94	0.022	17.21
278+50.00 - 279+00.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
279+00.00 - 279+50.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
279+50.00 - 280+00.00	50	0	273	0.006	0.56	0.56	0.56	0.006	5.01
280+00.00 - 280+50.00	50	455	501	0.022	1.98	1.98	1.98	0.022	17.56
280+50.00 - 280+76.68	26.68	242	122	0.008	0.75	0.75	0.75	0.008	6.69
280+76.68 - 281+00.00	23.32	0	185	0.004	0.38	0.38	0.38	0.004	3.40
281+00.00 - 281+50.00	50	330	1059	0.032	2.87	2.87	2.87	0.032	25.51
281+50.00 - 282+00.00	50	762	1522	0.052	4.72	4.72	4.72	0.052	41.95
282+00.00 - 282+50.00	50	577	1899	0.057	5.12	5.12	5.12	0.057	45.47
282+50.00 - 283+00.00	50	915	1040	0.036	3.21	3.21	3.21	0.036	28.56
283+00.00 - 283+50.00	50	790	0	0.017	1.51	1.51	1.51	0.017	13.41
283+50.00 - 284+00.00	50	863	0	0.020	1.82	1.82	1.82	0.020	16.22
284+00.00 - 284+50.00	50	961	0	0.022	1.98	1.98	1.98	0.022	17.65
284+50.00 - 285+00.00	50	838	0	0.019	1.73	1.73	1.73	0.019	15.39
285+00.00 - 285+50.00	50	738	0	0.017	1.52	1.52	1.52	0.017	13.55
285+50.00 - 286+00.00	50	756	0	0.017	1.56	1.56	1.56	0.017	13.88
286+00.00 - 286+50.00	50	786	0	0.018	1.62	1.62	1.62	0.018	14.44
330+00.00 - 330+50.00	50	0	123	0.003	0.25	0.25	0.25	0.003	2.26
330+50.00 - 331+00.00	50	0	289	0.007	0.60	0.60	0.60	0.007	5.31
331+00.00 - 331+50.00	50	0	166	0.004	0.34	0.34	0.34	0.004	3.05
331+50.00 - 332+00.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
332+00.00 - 332+50.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
332+50.00 - 333+00.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
333+00.00 - 333+50.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
333+50.00 - 334+00.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
334+00.00 - 334+50.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
334+50.00 - 335+00.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
335+00.00 - 335+50.00	50	327	0	0.008	0.68	0.68	0.68	0.008	6.01
335+50.00 - 336+00.00	50	528	0	0.012	1.09	1.09	1.09	0.012	9.70
336+00.00 - 336+17.63	17.63	84	0	0.002	0.17	0.17	0.17	0.002	1.54
336+17.63 - 336+50.00	32.37	337	0	0.008	0.70	0.70	0.70	0.008	6.19
336+50.00 - 337+00.00	50	1037	0	0.024	2.14	2.14	2.14	0.024	19.04
337+00.00 - 337+50.00	50	1091	0	0.025	2.25	2.25	2.25	0.025	20.04
337+50.00 - 338+00.00	50	1080	0	0.025	2.23	2.23	2.23	0.025	19.83
338+00.00 - 338+50.00	50	1033	196	0.028	2.54	2.54	2.54	0.028	22.57
338+50.00 - 339+00.00	50	822	465	0.030	2.66	2.66	2.66	0.030	23.64
339+00.00 - 339+50.00	50	528	432	0.022	1.98	1.98	1.98	0.022	17.63
339+50.00 - 340+00.00	50	197	228	0.010	0.88	0.88	0.88	0.010	7.81
340+00.00 - 340+50.00	50	0	352	0.008	0.73	0.73	0.73	0.008	6.46
340+50.00 - 341+00.00	50	0	286	0.007	0.59	0.59	0.59	0.007	5.25
341+00.00 - 341+50.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
341+50.00 - 342+00.00	50	0	221	0.009	0.46	0.46	0.46	0.009	4.06
342+00.00 - 342+50.00	50	0	220	0.005	0.45	0.45	0.45	0.005	4.04
342+50.00 - 343+00.00	50	0	250	0.006	0.52	0.52	0.52	0.006	4.59
343+00.00 - 343+50.00	50	0	372	0.009	0.77	0.77	0.77	0.009	6.83
343+50.00 - 344+00.00	50	0	122	0.003	0.25	0.25	0.25	0.003	2.24
344+00.00 - 344+50.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
344+50.00 - 345+00.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
345+00.00 - 345+50.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
345+50.00 - 346+00.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
346+00.00 - 346+50.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
346+50.00 - 347+00.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
347+00.00 - 347+50.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
347+50.00 - 347+68.27	18.27	0	0	0.000	0.00	0.00	0.00	0.000	0.00
347+68.27 - 348+00.00	31.73	24	0	0.001	0.05	0.05	0.05	0.001	0.44
348+00.00 - 348+33.81	33.81	971	0	0.022	2.01	2.01	2.01	0.022	17.83
348+33.81 - 348+50.00	16.19	886	0	0.020	1.83	1.83	1.83	0.020	16.27
348+50.00 - 349+00.00	50	1337	0	0.031	2.76	2.76	2.76	0.031	24.55
349+00.00 - 349+50.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00

SEEDING, CLASS 4 SCHEDULE

LOCATION	DISTANCE FEET	SURFACE AREA		SEEDING CLASS 4 ACRE	NITROGEN FERTILIZER POUND	PHOSPHORUS FERTILIZER POUND	POTASSIUM FERTILIZER POUND	MULCH METHOD 2 ACRE	TEMPORARY EROSION CONTROL SEEDING POUND
		AREA - LT SQ. FT.	AREA - RT SQ. FT.						
		25000310	25000400						
JO DAVIESS									
IL 78									
402+00.00 - 402+50.00	50	0	417	0.010	0.86	0.86	0.86	0.010	7.66
402+50.00 - 402+77.00	27	0	162	0.004	0.33	0.33	0.33	0.004	2.98
402+77.00 - 403+00.00	23	0	138	0.003	0.29	0.29	0.29	0.003	2.53
403+00.00 - 403+50.00	50	506	652	0.027	2.39	2.39	2.39	0.027	21.27
403+50.00 - 404+00.00	50	1083	717	0.041	3.72	3.72	3.72	0.041	33.06
404+00.00 - 404+50.00	50	1026	363	0.032	2.87	2.87	2.87	0.032	25.51
404+50.00 - 404+70.72	20.72	627	0	0.014	1.30	1.30	1.30	0.014	11.52
404+70.72 - 405+00.00	29.28	1023	223	0.029	2.57	2.57	2.57	0.029	22.88
405+00.00 - 405+50.00	50	1274	683	0.045	4.04	4.04	4.04	0.045	35.94
405+50.00 - 406+00.00	50	1330	681	0.046	4.15	4.15	4.15	0.046	36.93
406+00.00 - 406+50.00	50	1398	871	0.052	4.69	4.69	4.69	0.052	41.67
406+50.00 - 407+00.00	50	1245	931	0.050	4.50	4.50	4.50	0.050	39.96
407+00.00 - 407+50.00	50	585	948	0.035	3.17	3.17	3.17	0.035	28.15
447+50.00 - 448+00.00	50	0	320	0.007	0.66	0.66	0.66	0.007	5.88
448+00.00 - 448+28.40	28.4	0	478	0.011	0.99	0.99	0.99	0.011	8.78
448+28.40 - 448+50.00	21.6	0	682	0.016	1.41	1.41	1.41	0.016	12.53
448+50.00 - 449+00.00	50	0	1038	0.024	2.14	2.14	2.14	0.024	19.06
482+50.00 - 483+00.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.00
483+00.00 - 483+50.00	50	0	0	0.000	0.00	0.00	0.00	0.000	0.0

EARTHWORK & ENTRANCE SCHEDULES

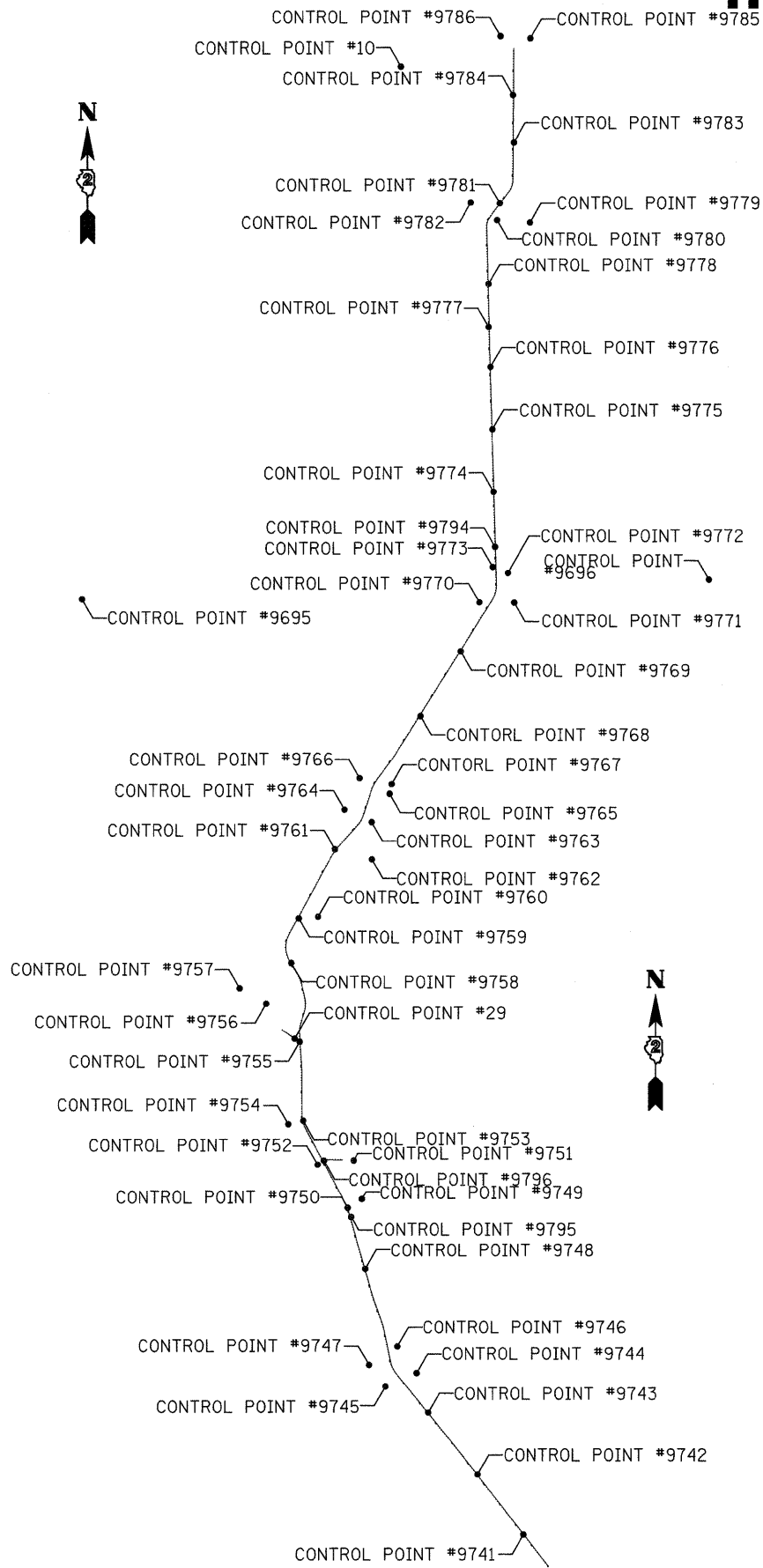
EARTHWORK SCHEDULE

LOCATION	EARTH EXC (CUT)	EARTH EXC ADJ SHRINK 25%	EMBANK (FILL)	EARTH WORK BALANCE WASTE (+) SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
	CU YD	CU YD	CU YD	CU YD
1 29 - 10 50	3759	2819	1439	1380
52 50 - 56 50	575	431	376	55
177 50 - 186 50	1050	788	404	383
224 75 - 245 50	10870	8153	7682	471
274 00 - 287 00	2838	2129	2465	-337
329 50 - 350 00	2318	1739	2506	-767
401 50 - 408 00	1421	1066	895	171
434 50 - 437 00	35	26	929	-903
447 00 - 449 50	88	66	1338	-1272
482 00 - 486 00	327	245	358	-113
498 50 - 503 50	59	44	360	-316
SIDERROADS				
40 00 - 42 50	1525	1143	25	1118
0 00 - 2 75	555	416	37	380
88 00 - 90 00	555	416	416	0
TOTAL				
	25,973	19,480	19,230	250

ENTRANCE SCHEDULE

LOCATION	REMARKS	35101400		40800050	
		PROPOSED SURFACE AREA	AGGREGATE BASE COURSE TYPE B	INCIDENTAL HOT-MIX ASPHALT SURFACING	
		SQ. YD.	TON	TON	
IL ROUTE 78					
1 + 85 LT	FE	40.1	18.27	—	
5 + 30 RT	PE	40.7	21.03	5.70	
5 + 53 LT	FE	205.6	93.67	—	
52 + 85 RT	FE	124.5	56.70	—	
182 + 41 LT	FE	227.1	103.48	—	
230 + 17 RT	FE	71.3	32.47	—	
231 + 14 RT	PE	101.9	51.21	14.27	
280 + 78 RT	PE	133.7	63.79	18.72	
281 + 00 LT	FE	179.1	81.60	—	
340 + 40 RT	FE	138.7	63.16	—	
341 + 46 RT	FE	140.0	63.79	—	
347 + 68 RT	FE	154.7	70.46	—	
349 + 56 RT	FE	165.6	75.43	—	
402 + 77 RT	FE	100.4	45.76	—	
SIDERROADS					
WILLOW ROAD					
41 + 16 LT	CE	238.1	108.49	33.34	
TOTAL			949.32	72.03	

HORIZONTAL VERTICAL CONTROL SHEETS



Chain IL78 contains:
 CUR 1480 269 270 CUR 1510 273 CUR 1530 276 CUR 1550 279 CUR 1570 282 CUR 1590 -
 CUR 1600 CUR 1610 CUR 1620 CUR 1630 CUR 1640 294 CUR 1660 CUR 1670 299 CUR 1690-
 CUR 1700 CUR 1710 CUR 1720 CUR 1730 310 311 312 313 314 CUR 1790 CUR 1800 319

Beginning chain IL78 description
 =====

Curve Data

Curve 1480
 P.I. Station 1+51.33 N 2,014,457.782500 E 2,341,058.093900
 Delta = 1° 46' 53.006751" (RT)
 Degree = 0° 35' 19.052204"
 Tangent = 151.330000'
 Length = 302.635619'
 Radius = 9,733.823730'
 External = 1.176279'
 Long Chord = 302.623430'
 Mid. Ord. = 1.176137'
 P.C. Station 0+00.00 N 2,014,340.941254 E 2,341,154.265061
 P.T. Station 3+02.64 N 2,014,577.556866 E 2,340,965.601359
 C.C. N 2,020,526.847077 E 2,348,669.708731

Course from PT 1480 to 269 N 37° 40' 34.145353" W Dist 1,024.865290'
 Point 269 N 2,015,388.715200 E 2,340,339.206100 Sta 13+27.50
 Course from 269 to 270 N 37° 44' 53.833254" W Dist 802.621699'
 Point 270 N 2,016,023.354500 E 2,339,847.846200 Sta 21+30.12
 Course from 270 to PC 1510 N 37° 41' 54.518884" W Dist 2,288.292051'

Curve Data

Curve 1510
 P.I. Station 48+56.95 N 2,018,180.932500 E 2,338,180.372000
 Delta = 0° 46' 04.975678" (LT)
 Degree = 0° 05' 15.252552"
 Tangent = 438.540000'
 Length = 877.066866'
 Radius = 65,428.433495'
 External = 1.469661'
 Long Chord = 877.060300'
 Mid. Ord. = 1.469628'
 P.C. Station 44+18.41 N 2,017,833.942206 E 2,338,448.541848
 P.T. Station 52+95.48 N 2,018,524.296915 E 2,337,907.574987
 C.C. N 1,977,824.061596 E 2,286,678.962333

Course from PT 1510 to 273 N 38° 27' 59.494563" W Dist 699.184754'
 Point 273 N 2,019,071.738800 E 2,337,472.642000 Sta 59+94.67
 Course from 273 to PC 1530 N 38° 31' 12.803065" W Dist 3,534.439263'

Curve Data

Curve 1530
 P.I. Station 97+73.07 N 2,022,027.914500 E 2,335,119.489600
 Delta = 26° 58' 43.830310" (RT)
 Degree = 5° 38' 01.816912"
 Tangent = 243.960000'
 Length = 478.871448'
 Radius = 1,016.993730'
 External = 28.851731'
 Long Chord = 474.459755'
 Mid. Ord. = 28.055799'
 P.C. Station 95+29.11 N 2,021,837.043029 E 2,335,271.425650
 P.T. Station 100+07.98 N 2,022,266.941740 E 2,335,070.679151
 C.C. N 2,022,470.417395 E 2,336,067.109733

Course from PT 1530 to 276 N 11° 32' 28.972756" W Dist 591.867959'
 Point 276 N 2,022,846.842400 E 2,334,952.260800 Sta 105+99.84
 Course from 276 to PC 1550 N 11° 46' 00.667308" W Dist 626.840971'

Curve Data

Curve 1550
 P.I. Station 114+00.42 N 2,023,630.589800 E 2,334,789.000600
 Delta = 7° 40' 10.792017" (LT)
 Degree = 2° 12' 38.353550"
 Tangent = 173.730000'
 Length = 346.941008'
 Radius = 2,591.802500'
 External = 5.816085'
 Long Chord = 346.682035'
 Mid. Ord. = 5.803063'
 P.C. Station 112+26.69 N 2,023,460.510643 E 2,334,824.429307
 P.T. Station 115+73.63 N 2,023,794.419061 E 2,334,731.189821
 C.C. N 2,022,931.965130 E 2,332,287.092152

Course from PT 1550 to 279 N 19° 26' 11.459326" W Dist 359.048645'
 Point 279 N 2,024,133.005800 E 2,334,611.712000 Sta 119+32.68
 Course from 279 to PC 1570 N 19° 37' 40.498131" W Dist 338.010732'

Curve Data

Curve 1570
 P.I. Station 126+82.25 N 2,024,839.021900 E 2,334,359.923300
 Delta = 3° 46' 54.100153" (RT)
 Degree = 0° 27' 34.563694"
 Tangent = 411.560000'
 Length = 822.821158'
 Radius = 12,466.416796'
 External = 6.791667'
 Long Chord = 822.671811'
 Mid. Ord. = 6.787969'
 P.C. Station 122+70.69 N 2,024,451.376047 E 2,334,498.170637
 P.T. Station 130+93.51 N 2,025,234.941808 E 2,334,247.544208
 C.C. N 2,028,638.976687 E 2,346,240.212564

Course from PT 1570 to 282 N 15° 50' 46.397977" W Dist 2,610.074369'
 Point 282 N 2,027,745.828200 E 2,333,534.846700 Sta 157+03.58
 Course from 282 to PC 1590 N 16° 07' 34.789598" W Dist 279.894386'

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL VERTICAL CONTROL SHEETS			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
ca:\pwwork\pwwork\HENSONKE\dms33697\08707HVC.DGN		DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	642	(10,11)T	JO DAVIESS	283	39
PLOT SCALE = 3200.0000' / IN.		CHECKED -	REVISED -								CONTRACT NO. 64D07				
PLOT DATE = Tue Sep 30 14:00:34 2008		DATE -	REVISED -								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

HORIZONTAL VERTICAL CONTROL SHEETS

Curve Data
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Curve 1590
P.I. Station 161+95.12 N 2,028,218.021500 E 2,333,398.320000
Delta = 11° 52' 49.746395" (LT)
Degree = 2° 49' 00.722546"
Tangent = 211.640000'
Length = 421.762317'
Radius = 2,034.024748'
External = 10.980916'
Long Chord = 421.007145'
Mid. Ord. = 10.921952'
P.C. Station 159+83.48 N 2,028,014.709193 E 2,333,457.104312
P.T. Station 164+05.24 N 2,028,404.876708 E 2,333,298.938811
C.C. N 2,027,449.746304 E 2,331,503.115159

Course from PT 1590 to PC 1600 N 28° 00' 24.535993" W Dist 3,238.735836'

Curve Data
-----*

Curve 1600
P.I. Station 198+04.14 N 2,031,405.742600 E 2,331,702.892200
Delta = 17° 37' 13.871469" (RT)
Degree = 5° 32' 39.606069"
Tangent = 160.170000'
Length = 317.811240'
Radius = 1,033.411208'
External = 12.338836'
Long Chord = 316.560299'
Mid. Ord. = 12.193249'
P.C. Station 196+43.97 N 2,031,264.329830 E 2,331,778.104282
P.T. Station 199+61.79 N 2,031,563.288154 E 2,331,674.016130
C.C. N 2,031,749.595541 E 2,332,690.494503

Curve Data
-----*

Curve 1610
P.I. Station 200+52.11 N 2,031,652.136900 E 2,331,657.731300
Delta = 9° 48' 53.074930" (RT)
Degree = 5° 26' 45.996014"
Tangent = 90.328818'
Length = 180.215659'
Radius = 1,052.049618'
External = 3.870689'
Long Chord = 179.995400'
Mid. Ord. = 3.856500'
P.C. Station 199+61.79 N 2,031,563.288154 E 2,331,674.016130
P.T. Station 201+42.00 N 2,031,742.461224 E 2,331,656.830242
C.C. N 2,031,752.955746 E 2,332,708.827516

Course from PT 1610 to PC 1620 N 0° 34' 17.589593" W Dist 1,601.462310'

Curve Data
-----*

Curve 1620
P.I. Station 219+31.46 N 2,033,531.834500 E 2,331,638.979800
Delta = 2° 59' 02.598264" (LT)
Degree = 0° 47' 37.199997"
Tangent = 188.000000'
Length = 375.915005'
Radius = 7,217.810227'
External = 2.447973'
Long Chord = 375.872520'
Mid. Ord. = 2.447143'
P.C. Station 217+43.46 N 2,033,343.843854 E 2,331,640.855158
P.T. Station 221+19.38 N 2,033,719.472615 E 2,331,627.320559
C.C. N 2,033,271.843956 E 2,324,423.404051

Course from PT 1620 to PC 1630 N 3° 33' 20.187857" W Dist 1,162.967518'

Curve Data
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Curve 1630
P.I. Station 234+92.65 N 2,035,090.096700 E 2,331,542.154300
Delta = 20° 45' 24.060245" (RT)
Degree = 4° 59' 22.950704"
Tangent = 210.300000'
Length = 415.989898'
Radius = 1,148.279086'
External = 19.098723'
Long Chord = 413.718832'
Mid. Ord. = 18.786261'
P.C. Station 232+82.35 N 2,034,880.201511 E 2,331,555.196525
P.T. Station 236+98.34 N 2,035,290.990572 E 2,331,604.345474
C.C. N 2,034,951.414609 E 2,332,701.265264

Course from PT 1630 to PC 1640 N 17° 12' 03.872388" E Dist 458.252683'

Curve Data
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Curve 1640
P.I. Station 244+31.32 N 2,035,991.189000 E 2,331,821.107500
Delta = 29° 46' 29.758320" (LT)
Degree = 5° 32' 39.417933"
Tangent = 274.730000'
Length = 537.038498'
Radius = 1,033.420949'
External = 35.894454'
Long Chord = 531.015894'
Mid. Ord. = 34.689560'
P.C. Station 241+56.59 N 2,035,728.746901 E 2,331,739.862700
P.T. Station 246+93.63 N 2,036,259.329929 E 2,331,761.299348
C.C. N 2,036,034.356328 E 2,330,752.663766

Course from PT 1640 to 294 N 12° 34' 25.885932" W Dist 194.591414'

Point 294 N 2,036,449.254300 E 2,331,718.937200 Sta 248+88.22

Course from 294 to PC 1660 N 13° 30' 57.941560" W Dist 307.510335'

Curve Data
-----*

Curve 1660
P.I. Station 254+93.12 N 2,037,037.401500 E 2,331,577.560800
Delta = 18° 19' 31.014935" (LT)
Degree = 3° 06' 27.196196"
Tangent = 297.390000'
Length = 589.701063'
Radius = 1,843.757834'
External = 23.829851'
Long Chord = 587.190788'
Mid. Ord. = 23.525790'
P.C. Station 251+95.73 N 2,036,748.247923 E 2,331,647.066345
P.T. Station 257+85.43 N 2,037,290.037851 E 2,331,420.666931
C.C. N 2,036,317.327604 E 2,329,854.372666

Course from PT 1660 to PC 1670 N 31° 50' 28.956495" W Dist 462.438774'

Curve Data
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Curve 1670
P.I. Station 268+39.59 N 2,038,185.558300 E 2,330,864.525000
Delta = 60° 32' 38.396460" (RT)
Degree = 5° 39' 06.825727"
Tangent = 591.720000'
Length = 1,071.215724'
Radius = 1,013.744399'
External = 160.057230'
Long Chord = 1,022.068501'
Mid. Ord. = 138.232148'
P.C. Station 262+47.87 N 2,037,682.885104 E 2,331,176.698376
P.T. Station 273+19.08 N 2,038,704.570223 E 2,331,148.706601
C.C. N 2,038,217.705647 E 2,332,037.886331

Course from PT 1670 to 299 N 28° 42' 09.439966" E Dist 1,746.798691'

Point 299 N 2,040,236.729600 E 2,331,987.630500 Sta 290+65.88

Course from 299 to PC 1690 N 28° 36' 51.934700" E Dist 1,644.288502'

Curve Data
-----*

Curve 1690
P.I. Station 309+47.58 N 2,041,888.602000 E 2,332,888.800200
Delta = 13° 18' 53.077901" (RT)
Degree = 2° 49' 00.676737"
Tangent = 237.410000'
Length = 472.681253'
Radius = 2,034.033937'
External = 13.808236'
Long Chord = 471.618373'
Mid. Ord. = 13.715129'
P.C. Station 307+10.17 N 2,041,680.188683 E 2,332,775.101487
P.T. Station 311+82.85 N 2,042,065.228261 E 2,333,047.440271
C.C. N 2,040,706.063577 E 2,334,560.703440

Course from PT 1690 to PC 1700 N 41° 55' 45.012601" E Dist 1,126.636674'

Curve Data
-----*

Curve 1700
P.I. Station 325+24.38 N 2,043,063.285800 E 2,333,943.863700
Delta = 24° 07' 31.652542" (LT)
Degree = 5° 41' 52.365495"
Tangent = 214.890000'
Length = 423.411198'
Radius = 1,005.563236'
External = 22.704790'
Long Chord = 420.290193'
Mid. Ord. = 22.203454'
P.C. Station 323+09.49 N 2,042,903.413776 E 2,333,800.271750
P.T. Station 327+32.90 N 2,043,267.884630 E 2,334,009.567816
C.C. N 2,043,575.342603 E 2,333,052.161416

Course from PT 1700 to PC 1710 N 17° 48' 13.360060" E Dist 914.125573'

Curve Data
-----*

Curve 1710
P.I. Station 339+82.33 N 2,044,457.474700 E 2,334,391.588400
Delta = 18° 58' 37.047891" (RT)
Degree = 2° 51' 21.614895"
Tangent = 335.300000'
Length = 664.458342'
Radius = 2,006.151839'
External = 27.827338'
Long Chord = 661.425367'
Mid. Ord. = 27.446625'
P.C. Station 336+47.03 N 2,044,138.232354 E 2,334,289.068086
P.T. Station 343+11.48 N 2,044,726.027679 E 2,334,592.350416
C.C. N 2,043,524.837437 E 2,336,199.144492

Course from PT 1710 to PC 1720 N 36° 46' 50.407951" E Dist 713.988075'

Curve Data
-----*

Curve 1720
P.I. Station 352+91.48 N 2,045,510.940900 E 2,335,179.127600
Delta = 4° 38' 34.979181" (LT)
Degree = 0° 52' 23.515722"
Tangent = 266.010000'
Length = 531.728824'
Radius = 6,561.596138'
External = 5.389868'
Long Chord = 531.583343'
Mid. Ord. = 5.385444'
P.C. Station 350+25.47 N 2,045,297.884598 E 2,335,019.853207
P.T. Station 355+57.20 N 2,045,736.190942 E 2,335,320.632861
C.C. N 2,049,226.662623 E 2,329,764.451499

Course from PT 1720 to PC 1730 N 32° 08' 15.428769" E Dist 6,865.946275'

FILE NAME = c:\pw\work\VPWIDOT\HENSONKE\dms33697\08707HVC.DGN	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL VERTICAL CONTROL SHEETS	F.A.P. RTE. 642	SECTION (10,11)T	COUNTY JO DAVIESS	TOTAL SHEETS 283	SHEET NO. 40
PLOT SCALE = 3200.0000' / IN.	CHECKED -	DATE -	REVISED -	SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT CONTRACT NO. 64D07				

HORIZONTAL VERTICAL CONTROL SHEETS

Curve Data

Curve 1730
 P.I. Station 427+35.88 N 2,051,814.899000 E 2,339,139.363200
 Delta = 33° 40' 22.266972" (LT)
 Degree = 5° 32' 39.112001"
 Tangent = 312.730000'
 Length = 607.353007'
 Radius = 1,033.436789'
 External = 46.281531'
 Long Chord = 598.650002'
 Mid. Ord. = 44.297698'
 P.C. Station 424+23.15 N 2,051,550.087731 E 2,338,973.005017
 P.T. Station 430+30.50 N 2,052,127.516742 E 2,339,130.984644
 C.C. N 2,052,099.829253 E 2,338,097.918818

Course from PT 1730 to 310 N 1° 32' 06.838204" W Dist 3,790.419771'
 Point 310 N 2,055,916.575900 E 2,339,029.433000 Sta 468+20.92
 Course from 310 to 311 N 1° 45' 45.228584" W Dist 4,281.863276'
 Point 311 N 2,060,196.413300 E 2,338,897.732800 Sta 511+02.78
 Course from 311 to 312 N 1° 32' 38.801357" W Dist 892.618332'
 Point 312 N 2,061,088.707500 E 2,338,873.679800 Sta 519+95.40
 Course from 312 to 313 N 1° 19' 24.032624" W Dist 2,138.497273'
 Point 313 N 2,063,226.634400 E 2,338,824.292000 Sta 541+33.90
 Course from 313 to 314 N 1° 17' 40.759565" W Dist 1,769.264556'
 Point 314 N 2,064,995.447300 E 2,338,784.317100 Sta 559+03.16
 Course from 314 to PC 1790 N 1° 29' 49.925298" W Dist 839.031397'

Curve Data

Curve 1790
 P.I. Station 569+52.67 N 2,066,044.590400 E 2,338,756.895600
 Delta = 38° 55' 59.883951" (RT)
 Degree = 9° 37' 20.145049"
 Tangent = 210.470000'
 Length = 404.616908'
 Radius = 595.450181'
 External = 36.102302'
 Long Chord = 396.877229'
 Mid. Ord. = 34.038537'
 P.C. Station 567+42.20 N 2,065,834.192254 E 2,338,762.394786
 P.T. Station 571+46.81 N 2,066,211.710269 E 2,338,884.835313
 C.C. N 2,065,849.750249 E 2,339,357.641681

Course from PT 1790 to PC 1800 N 37° 26' 09.958654" E Dist 1,170.600301'
 Curve Data

 Curve 1800
 P.I. Station 586+15.34 N 2,067,377.770000 E 2,339,777.520000
 Delta = 37° 03' 07.242165" (LT)
 Degree = 6° 26' 39.864702"
 Tangent = 297.930000'
 Length = 574.948362'
 Radius = 889.077626'
 External = 48.590391'
 Long Chord = 564.982259'
 Mid. Ord. = 46.072414'
 P.C. Station 583+17.41 N 2,067,141.204111 E 2,339,596.415430
 P.T. Station 588+92.36 N 2,067,675.693306 E 2,339,779.517188
 C.C. N 2,067,681.653281 E 2,338,890.459539

Course from PT 1800 to 319 N 0° 23' 02.716489" E Dist 5,002.188289'
 Point 319 N 2,072,677.769200 E 2,339,813.049600 Sta 638+94.55
 =====
 Ending chain IL78 description

Chain WILL.BL contains:

Beginning chain WILL.BL description
 =====
 Point 60000 N 2,030,026.823692 E 2,332,436.286803 Sta 40+00.00
 Course from 60000 to PC 60210 N 77° 15' 08.784987" E Dist 14.366469'

Curve Data

Curve 60210
 P.I. Station 40+31.31 N 2,030,033.733465 E 2,332,466.829651
 Delta = 12° 53' 34.139971" (RT)
 Degree = 38° 11' 49.870832"
 Tangent = 16.948232'
 Length = 33.753315'
 Radius = 150.000000'
 External = 0.954439'
 Long Chord = 33.682148'
 Mid. Ord. = 0.948404'
 P.C. Station 40+14.37 N 2,030,029.993738 E 2,332,450.299163
 P.T. Station 40+48.12 N 2,030,033.690498 E 2,332,483.777829
 C.C. N 2,029,883.690980 E 2,332,483.397547

Course from PT 60210 to 60003 S 89° 51' 17.074195" E Dist 709.495340'
 Point 60003 N 2,030,031.891776 E 2,333,193.270889 Sta 47+57.62
 =====
 Ending chain WILL.BL description

Chain BETH.BL contains:

60004 CUR 60200 60007
 Beginning chain BETH.BL description
 =====
 Point 60004 N 2,035,033.018175 E 2,330,879.250217 Sta 82+00.00
 Course from 60004 to PC 60200 S 56° 45' 34.326463" E Dist 559.244419'

Curve Data

Curve 60200
 P.I. Station 88+59.52 N 2,034,671.497965 E 2,331,430.860355
 Delta = 20° 39' 57.151032" (LT)
 Degree = 10° 25' 02.692045"
 Tangent = 100.278595'
 Length = 198.378162'
 Radius = 550.000000'
 External = 9.066898'
 Long Chord = 197.304571'
 Mid. Ord. = 8.919852'
 P.C. Station 87+59.24 N 2,034,726.466083 E 2,331,346.989605
 P.T. Station 89+57.62 N 2,034,649.666272 E 2,331,528.733608
 C.C. N 2,035,186.473648 E 2,331,648.474331

Course from PT 60200 to 60007 S 77° 25' 31.477234" E Dist 42.377414'
 Point 60007 N 2,034,640.440268 E 2,331,570.094533 Sta 90+00.00
 =====
 Ending chain BETH.BL description

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL VERTICAL CONTROL SHEETS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cr:\pw_work\NP\WIDOT\HENSONKE\dms33697\08	707HVC.DGN	DRAWN -	REVISED -			642	(10,11)T	JO DAVIESS	283	41	
	PLOT SCALE = 3200.0000' / IN.	CHECKED -	REVISED -			CONTRACT NO. 64D07					
	PLOT DATE = Tue Sep 30 14:00:35 2008	DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	

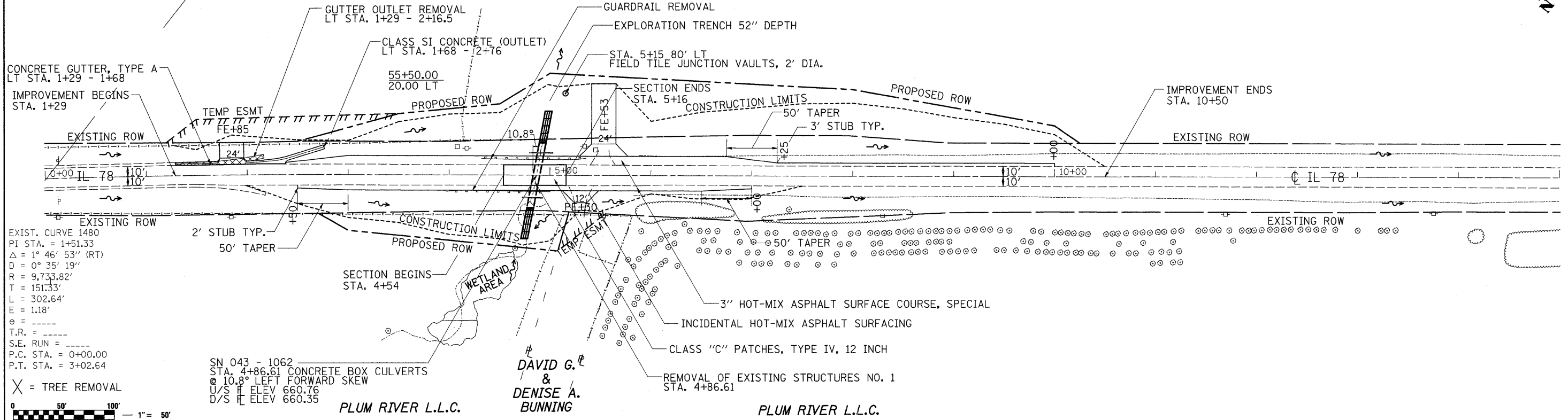
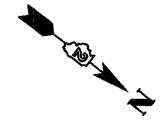
HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
10	2071986.5189	2335468.7378	1079.2100	IL78	631+74.19	4339.5804' LT	VERTICAL CONTROL STATION
29	2034703.2863	2331364.7568	695.3960	IL78	231+17.58	201.045' LT	VERTICAL CONTROL STATION
9695	2051583.7516	2323175.8260	910.5000	IL78	341+35.32	13308.9689' LT	PHOTO CONTROL H. & V.
9696	2052321.8534	2347308.1631	816.3990	IL78	430+27.72	8179.4831' RT	PHOTO CONTROL H. & V.
9741	2015566.6348	2340182.8820	644.7660	IL78	15+63.88	14.6854' LT	PHOTO CONTROL H. & V.
9742	2017901.0332	2338415.0143	650.1040	IL78	44+91.99	14.5396' RT	PHOTO CONTROL H. & V.
9743	2020296.8715	2336516.7341	658.2760	IL78	75+48.53	15.1102' RT	PHOTO CONTROL H. & V.
9744	2021831.1822	2336069.9673	664.6050	IL78	90+27.20	621.1196' RT	PHOTO CONTROL H. & V.
9745	2021313.2739	2334867.3413	647.1640	IL78	93+70.97	642.3495' LT	PHOTO CONTROL H. & V.
9746	2022866.7449	2335330.7985	663.6440	IL78	105+43.61	374.8658' RT	PHOTO CONTROL H. & V.
9747	2022150.9913	2334238.5308	653.0300	IL78	100+60.86	838.5216' LT	PHOTO CONTROL H. & V.
9748	2025851.5261	2334087.5399	664.4970	IL78	137+30.35	14.4385' RT	PHOTO CONTROL H. & V.
9749	2028521.4681	2333957.3923	687.9020	IL78	162+48.43	644.0462' RT	PHOTO CONTROL H. & V.
9750	2028187.6494	2333413.6859	670.3990	IL78	161+60.67	14.0918' RT	PHOTO CONTROL H. & V.
9751	2030009.8773	2333640.6341	696.6520	IL78	176+61.83	1055.3507' RT	PHOTO CONTROL H. & V.
9752	2029847.7938	2332253.8194	671.4000	IL78	181+69.94	245.1672' LT	PHOTO CONTROL H. & V.
9753	2031532.1644	2331698.6174	681.4680	IL78	199+26.11	17.982' RT	PHOTO CONTROL H. & V.
9754	2031398.0300	2331125.2129	676.7740	IL78	199+20.80	570.8658' LT	PHOTO CONTROL H. & V.
9755	2034582.3184	2331558.7391	698.6800	IL78	229+84.82	14.9381' LT	PHOTO CONTROL H. & V.
9756	2036051.6723	2330271.9500	693.2470	IL78	240+30.97	1497.7545' LT	PHOTO CONTROL H. & V.
9757	2036645.4410	2329248.2519	699.5750	IL78	262+90.96	2188.4542' LT	PHOTO CONTROL H. & V.
9758	2037615.9809	2331235.3642	761.9930	IL78	261+60.08	14.5407' RT	PHOTO CONTROL H. & V.
9759	2039326.0366	2331521.5504	725.1270	IL78	280+43.25	28.5626' RT	PHOTO CONTROL H. & V.
9760	2039387.6465	2332264.2171	782.8000	IL78	284+53.97	650.3845' RT	PHOTO CONTROL H. & V.
9761	2041968.9475	2332912.1620	732.1150	IL78	310+23.99	42.6376' LT	PHOTO CONTROL H. & V.
9762	2041578.3908	2334335.0195	813.3940	IL78	316+81.03	1283.2325' RT	PHOTO CONTROL H. & V.

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
9763	2043006.6621	2334324.7308	726.1140	IL78	326+22.77	388.2913' RT	PHOTO CONTROL H. & V.
9764	2043484.5448	2333279.0805	752.9580	IL78	326+62.62	761.1527' LT	PHOTO CONTROL H. & V.
9765	2044090.3701	2335017.4292	744.7560	IL78	339+19.11	696.0838' RT	PHOTO CONTROL H. & V.
9766	2044690.7797	2333861.2776	753.2890	IL78	339+51.74	606.3265' LT	PHOTO CONTROL H. & V.
9767	2044457.2426	2335095.2445	732.1440	IL78	343+97.32	563.7207' RT	PHOTO CONTROL H. & V.
9768	2047085.5450	2336201.4958	749.3620	IL78	371+68.38	28.0956' RT	PHOTO CONTROL H. & V.
9769	2049575.0051	2337750.1770	770.2510	IL78	401+00.21	15.1969' RT	PHOTO CONTROL H. & V.
9770	2051446.3663	2338471.1894	772.6400	IL78	420+68.38	369.7487' LT	PHOTO CONTROL H. & V.
9771	2051436.4256	2339813.3816	813.6040	IL78	426+21.47	805.834' RT	PHOTO CONTROL H. & V.
9772	2052576.2588	2339570.8919	815.8250	IL78	434+67.30	451.7719' RT	PHOTO CONTROL H. & V.
9773	2052804.3360	2338981.7750	792.4950	IL78	437+11.07	131.023' LT	PHOTO CONTROL H. & V.
9774	2055686.4267	2339019.1837	807.1930	IL78	465+91.13	16.4117' LT	PHOTO CONTROL H. & V.
9775	2058069.5284	2338977.6581	819.1190	IL78	489+74.45	14.4695' RT	PHOTO CONTROL H. & V.
9776	2060434.5928	2338904.8526	861.3270	IL78	513+40.69	13.5354' RT	PHOTO CONTROL H. & V.
9777	2061978.6251	2338833.3241	893.8760	IL78	528+86.01	19.7927' LT	PHOTO CONTROL H. & V.
9778	2063634.8917	2338830.8111	906.8780	IL78	545+41.91	15.7417' RT	PHOTO CONTROL H. & V.
9779	2066000.7890	2340430.1616	985.5100	IL78	579+18.70	1355.2522' RT	PHOTO CONTROL H. & V.
9780	2066098.2366	2339161.0669	1064.6890	IL78	572+24.63	288.3146' RT	PHOTO CONTROL H. & V.
9781	2066736.8939	2339267.7233	1052.5730	IL78	577+96.57	15.2214' LT	PHOTO CONTROL H. & V.
9782	2066760.0461	2338146.2355	1008.2390	IL78	571+41.48	919.8529' LT	PHOTO CONTROL H. & V.
9783	2069091.2556	2339814.3356	1013.5080	IL78	603+08.12	25.3283' RT	PHOTO CONTROL H. & V.
9784	2070908.8206	2339775.3069	1006.6060	IL78	621+25.39	25.8836' LT	PHOTO CONTROL H. & V.
9785	2073051.1525	2340447.3470	990.2700	IL78	OUT OF CHAIN	-----	PHOTO CONTROL H. & V.
9786	2073134.3417	2339299.0022	976.7170	IL78	OUT OF CHAIN	-----	PHOTO CONTROL H. & V.
9794	2053569.0259	2339076.3258	811.2520	IL78	444+72.96	16.0188' LT	PHOTO CONTROL H. & V.
9795	2027849.0480	2333543.4825	666.8390	IL78	158+00.34	36.9659' RT	PHOTO CONTROL H. & V.
9796	2030001.4356	2332496.7361	673.0890	IL78	181+91.52	41.4486' RT	PHOTO CONTROL H. & V.

SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
127	2014465.0804	2341026.3453	.0000	IL78	1+76.76	21.4835' LT	TRAVERSE STATION
128	2019539.8183	2337078.1349	.0000	IL78	66+06.58	17.1421' LT	TRAVERSE STATION
129	2022009.0961	2335139.5110	.0000	IL78	97+43.48	18.9873' LT	TRAVERSE STATION
130	2023656.9039	2334760.7319	.0000	IL78	114+33.29	14.1233' LT	TRAVERSE STATION
131	2031385.3554	2331704.2972	.0000	IL78	197+83.50	17.9004' LT	TRAVERSE STATION
132	2035062.3910	2331542.6727	.0000	IL78	234+63.26	15.6163' LT	TRAVERSE STATION
133	2036099.0597	2331823.8171	.0000	IL78	245+29.19	39.6848' RT	TRAVERSE STATION
134	2037219.3045	2331480.8738	.0000	IL78	256+94.34	16.0992' RT	TRAVERSE STATION
135	2037878.4900	2331064.7330	.0000	IL78	264+71.23	16.8354' LT	TRAVERSE STATION
136	2038482.9404	2331043.7007	.0000	IL78	270+75.54	15.2136' LT	TRAVERSE STATION
137	2040801.1673	2332311.1225	.0000	IL78	297+16.31	13.6649' RT	TRAVERSE STATION
138	2041891.4331	2332887.2498	.0000	IL78	309+47.92	16.7093' LT	TRAVERSE STATION
139	2043298.4721	2334035.8037	.0000	IL78	327+70.05	15.6271' RT	TRAVERSE STATION
140	2044517.1746	2334422.2735	.0000	IL78	340+45.43	29.0395' LT	TRAVERSE STATION
141	2045536.3238	2335209.7606	.0000	IL78	353+29.50	16.3969' RT	TRAVERSE STATION
142	2047903.2501	2336701.7448	.0000	IL78	381+26.90	16.7108' RT	TRAVERSE STATION
143	2050063.3525	2338057.2335	.0000	IL78	406+77.07	15.4253' RT	TRAVERSE STATION
144	2051898.8369	2339164.2938	.0000	IL78	428+10.28	51.7146' RT	TRAVERSE STATION
145	2054937.4582	2339075.4478	.0000	IL78	458+40.92	19.7661' RT	TRAVERSE STATION
146	2058488.5431	2338932.1957	.0000	IL78	493+94.66	18.0835' LT	TRAVERSE STATION
147	2060687.3212	2338900.0948	.0000	IL78	515+93.45	15.5894' RT	TRAVERSE STATION
148	2064809.8116	2338771.6832	.0000	IL78	557+17.86	16.825' LT	TRAVERSE STATION
149	2065998.2071	2338741.9202	.0000	IL78	568+98.64	37.9157' LT	TRAVERSE STATION
150	2067413.1458	2339758.1725	.0000	IL78	586+31.51	19.2296' RT	TRAVERSE STATION
151	2068432.7250	2339752.2547	.0000	IL78	596+49.19	32.3366' LT	TRAVERSE STATION
152	2072577.7727	2339843.0026	.0000	IL78	637+94.76	30.6227' RT	TRAVERSE STATION

CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
IL78	1480	1480	1481	1482	1483
IL78	1510	1510	1511	1512	1513
IL78	1530	1530	1531	1532	1533
IL78	1550	1550	1551	1552	1553
IL78	1570	1570	1571	1572	1573
IL78	1590	1590	1591	1592	1593
IL78	1600	1600	1601	1602	1603
IL78	1610	1610	1611	1612	1613
IL78	1620	1620	1621	1622	1623
IL78	1630	1630	1631	1632	1633
IL78	1640	1640	1641	1642	1643
IL78	1660	1660	1661	1662	1663
IL78	1670	1670	1671	1672	1673
IL78	1690	1690	1691	1692	1693
IL78	1700	1700	1701	1702	1703
IL78	1710	1710	1711	1712	1713
IL78	1720	1720	1721	1722	1723
IL78	1730	1730	1731	1732	1733
IL78	1790	1790	1791	1792	1793
IL78	1800	1800	1801	1802	1803

RALPH GUENTNER



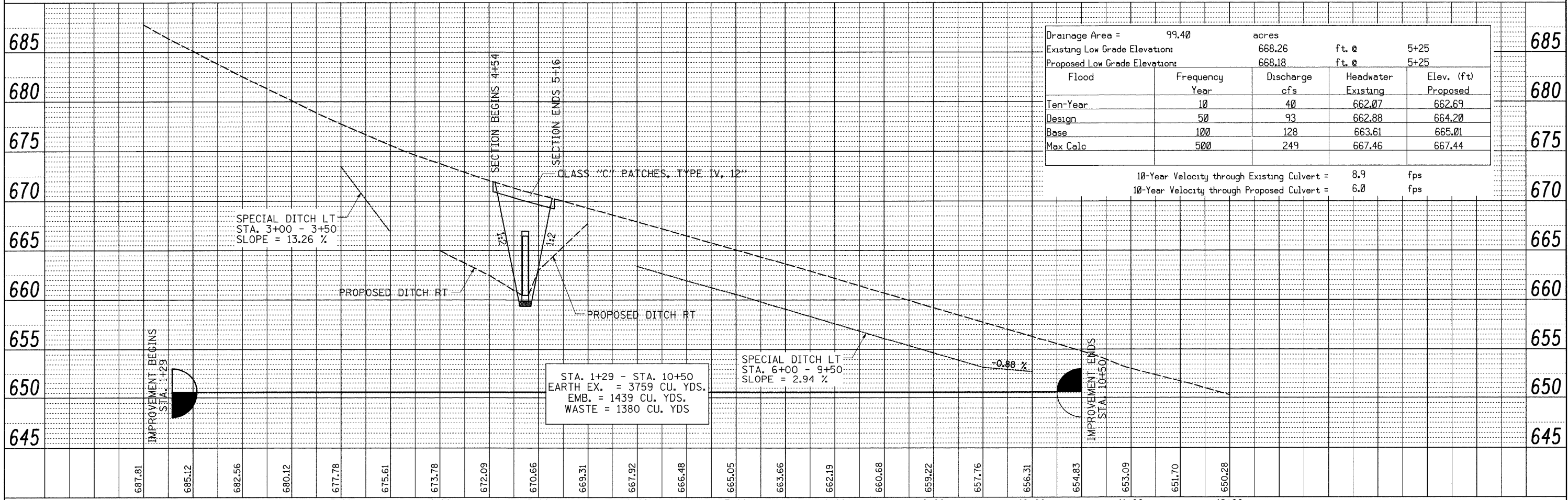
EXIST. CURVE 1480
 PI STA. = 1+51.33
 $\Delta = 1^\circ 46' 53''$ (RT)
 $D = 0^\circ 35' 19''$
 $R = 9,733.82'$
 $T = 151.33'$
 $L = 302.64'$
 $E = 1.18'$
 $e = \text{---}$
 $T.R. = \text{---}$
 $S.E. RUN = \text{---}$
 $P.C. STA. = 0+00.00$
 $P.T. STA. = 3+02.64$

SN 043 - 1062
 STA. 4+86.61 CONCRETE BOX CULVERTS
 @ 10.8° LEFT FORWARD SKEW
 U/S ELEV 660.76
 D/S ELEV 660.35

DAVID G. &
 DENISE A. BUNNING

PLUM RIVER L.L.C.

PLUM RIVER L.L.C.



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 78 PLAN & PROFILE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
es:\pw\work\PWIDOT\HENSONKE\dms33697\du477\plindgn	PLLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -			642	(10-11)T	JODAVIESS	283	44	
PLLOT DATE = Tue Sep 30 14:08:16 2008	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64D07					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

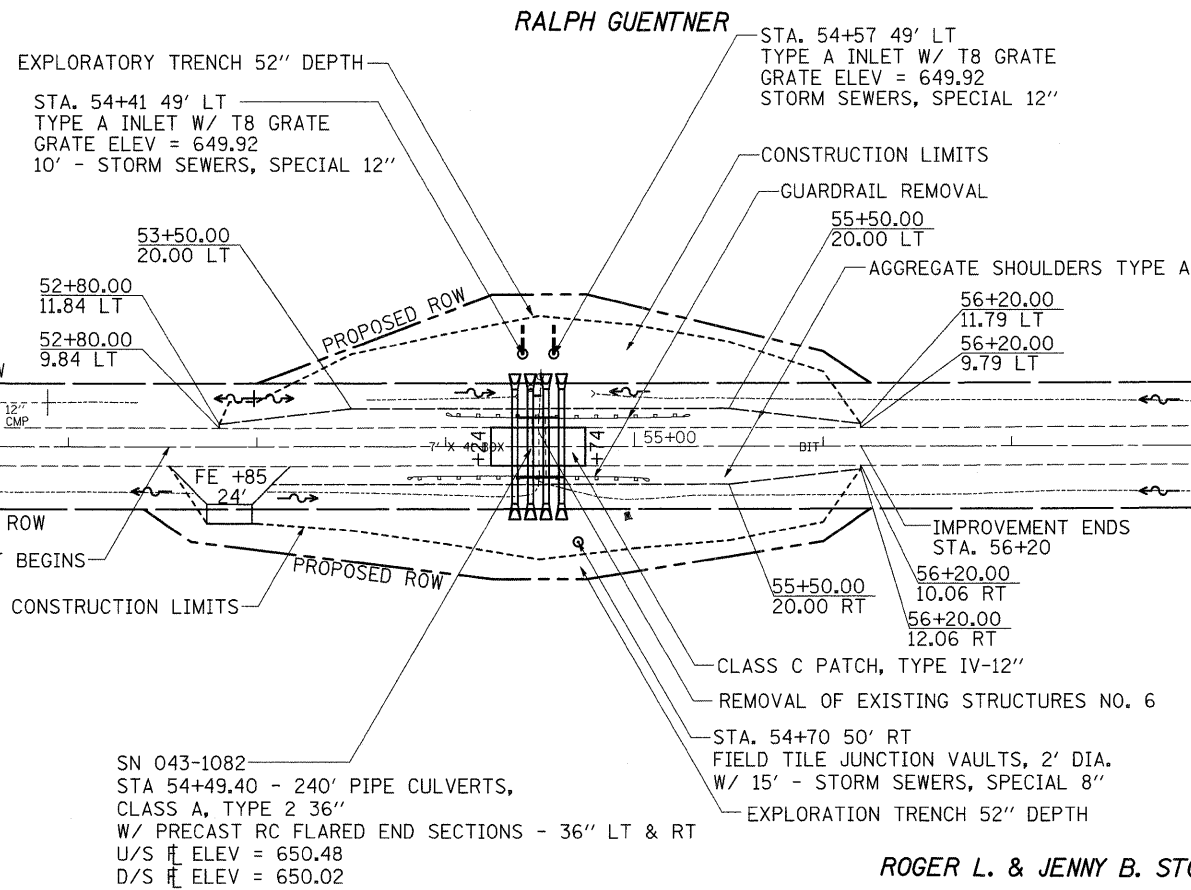
Drainage Area 98 acres			
Existing Low Grade Elevation: 656.00	ft. @ 52+84		
Proposed Low Grade Elevation: 656.00	ft. @ 52+84		
Flood Year	Frequency	Discharge cfs	Headwater Elev. (ft)
Ten-Year	10	154	653.86
Design	50	215	655.10
Base	100	249	655.92
0VT(E)	108	252	656.00
0VT(P)	183	281	656.00

10-Year Velocity through Existing Culvert = 8.9fps
 10-Year Velocity through Proposed Culvert = 9.6fps

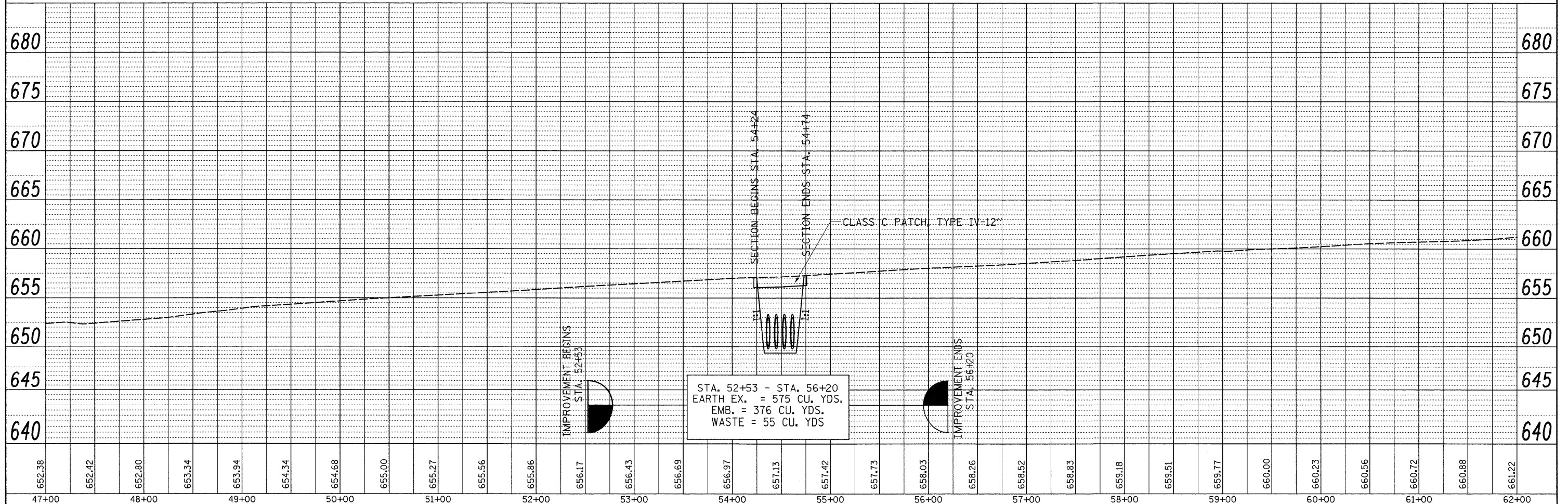
GUENTNER
BAR C INC

PLUM RIVER LLC

X = TREE REMOVAL



ROGER L. & JENNY B. STODDARD



FILE NAME =	USER NAME = hensanke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 78 PLAN & PROFILE				F.A.P. RTE. 642	SECTION (10-11)T	COUNTY JODAVIESS	TOTAL SHEETS 283	SHEET NO. 45
ca\pw_wor\k\p\WIDOT\HENSONKE\dms33697\84797pl.rxdgn		DRAWN -	REVISED -		SCALE: 1:50	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		CONTRACT NO. 64D07				
		CHECKED -	REVISED -										
		DATE -	REVISED -										

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	

DOLORES A. GISHWILLER

PLUM RIVER
TREE REMOVAL (ACRES)

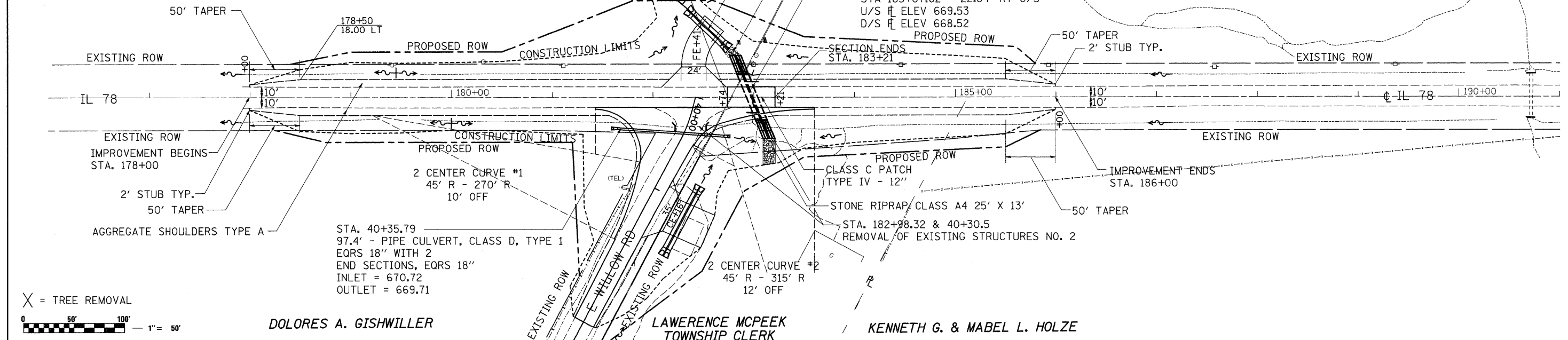
SECTION BEGINS
STA. 182+74
STONE RIPRAP CLASS A4
9' x 8'

STA. 182+40.98 - 67' LT O/S
80' - PIPE CULVERTS, CLASS D, TYPE 1
EQRS 36" WITH 2 CORR STEEL PIPE MULTIPLE
END SECTIONS EQRS 36"
STA 182+40.1 - 80.95' LT O/S, STA 182+69.37 - 53.62 LT O/S
INLET = 668.26, OUTLET = 667.92

KENNETH G. & MABEL L. HOLZE

SN 043-1063
STA. 182+98.97 106' PRECAST CONCRETE BOX CULVERT 4'X3'
@ 22.0° RIGHT FORWARD SKEW
WITH GRATED CULVERT EXTENSION NO. 1 LT & RT
STA 182+89.13 - 22.92' LT O/S
STA 183+07.62 - 22.84' RT O/S
U/S ELEV 669.53
D/S ELEV 668.52

DATE	
BY	
PLAN	
NO.	
NOTE BOOK	
NO.	
FILE NAME	



X = TREE REMOVAL

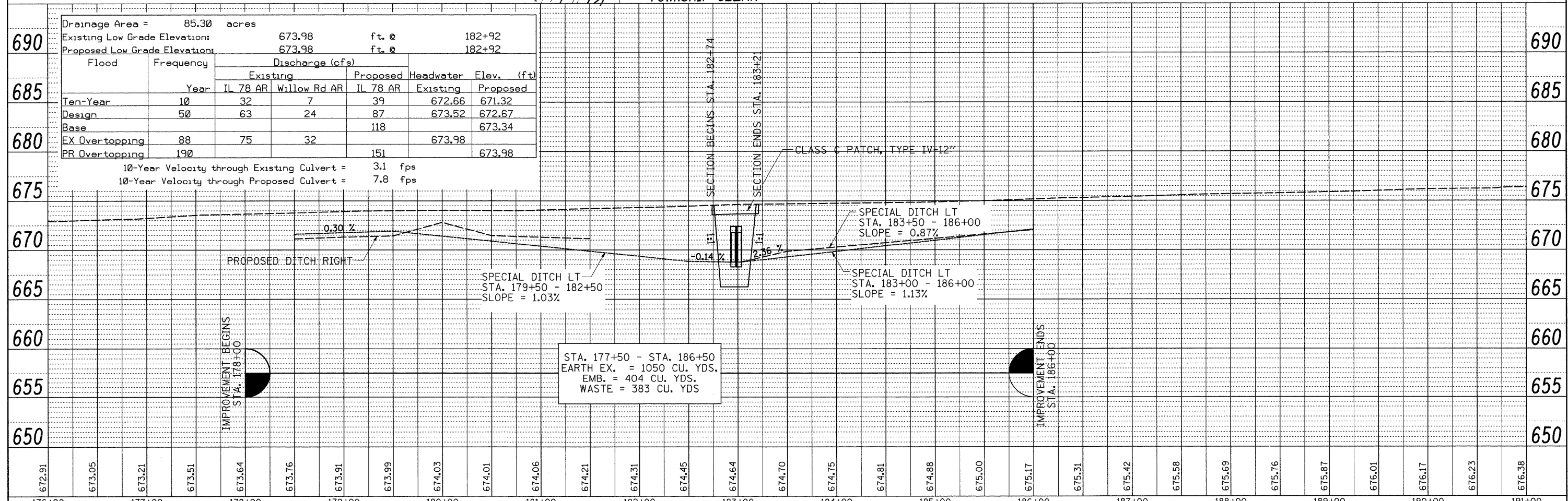


DOLORES A. GISHWILLER

LAWRENCE MCPEEK
TOWNSHIP CLERK

KENNETH G. & MABEL L. HOLZE

DATE	
BY	
PROFILE	
NO.	
NOTE BOOK	
NO.	
FILE NAME	



672.91	673.05	673.21	673.51	673.64	673.76	673.91	673.99	674.03	674.01	674.06	674.21	674.31	674.45	674.64	674.70	674.75	674.81	674.88	675.00	675.17	675.31	675.42	675.58	675.69	675.76	675.87	676.01	676.17	676.23	676.38		
176+00	177+00	178+00	179+00	180+00	181+00	182+00	183+00	184+00	185+00	186+00	187+00	188+00	189+00	190+00	191+00																	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 PLAN & PROFILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
642	(10-11)T	JODAVIESS	283	46
CONTRACT NO. 64D07				

FILE NAME =
USER NAME = hensonge
DESIGNED -
DRAWN -
CHECKED -
PLOT DATE = Tue Sep 30 14:08:17 2008

DESIGNED -
DRAWN -
CHECKED -
DATE -

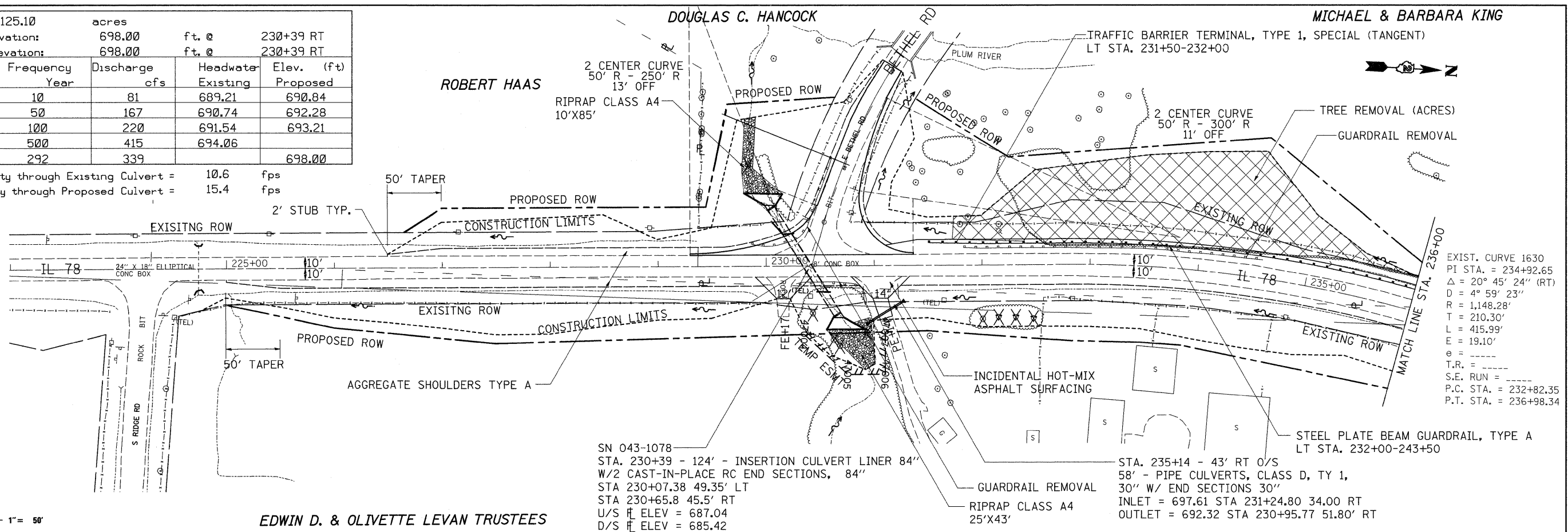
REVISOR -
REVISOR -
REVISOR -
REVISOR -

SCALE: 1:50
SHEET NO. OF SHEETS STA. TO STA.

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

Drainage Area =	125.10	acres			
Existing Low Grade Elevation:	698.00	ft. @	230+39 RT		
Proposed Low Grade Elevation:	698.00	ft. @	230+39 RT		
Flood	Frequency Year	Discharge cfs	Headwater Existing	Elev. (ft) Proposed	
Ten-Year	10	81	689.21	690.84	
Design	50	167	690.74	692.28	
Base	100	220	691.54	693.21	
Max Calc	500	415	694.06		
Prop Overtop	292	339		698.00	

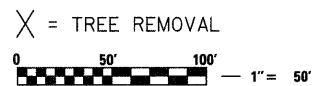
10-Year Velocity through Existing Culvert = 10.6 fps
 10-Year Velocity through Proposed Culvert = 15.4 fps



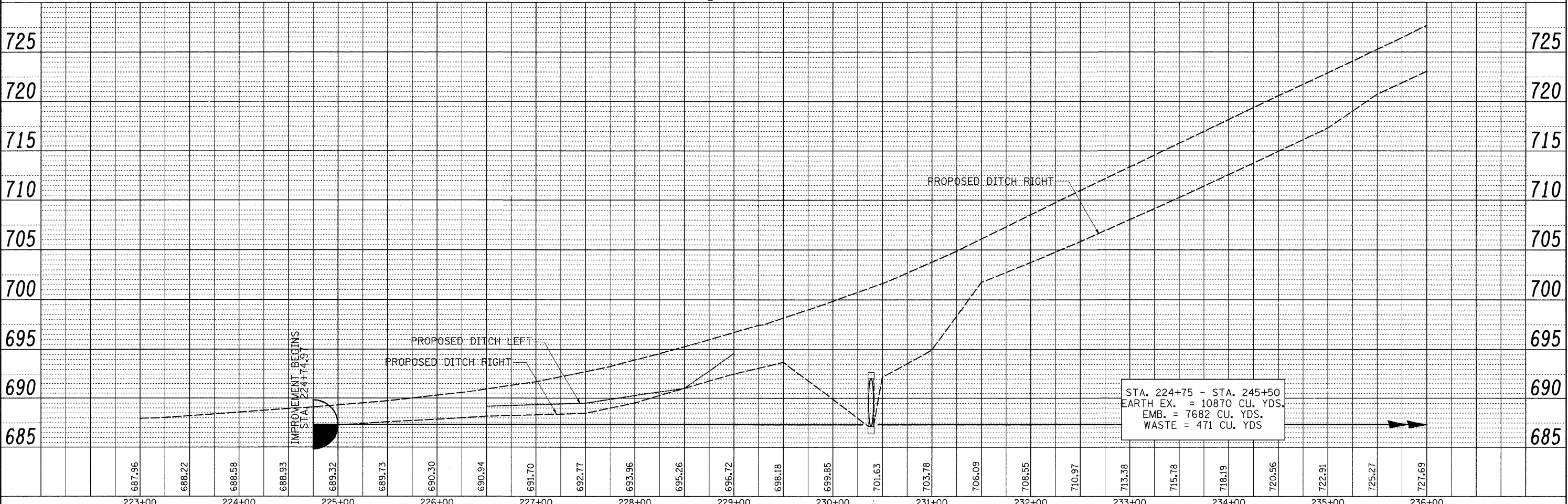
EXIST. CURVE 1630
 PI STA. = 234+92.65
 $\Delta = 20^\circ 45' 24''$ (RT)
 $D = 4^\circ 59' 23''$
 $R = 1,148.28'$
 $T = 210.30'$
 $L = 415.99'$
 $E = 19.10'$
 $e =$
 T.R. =
 S.E. RUN =
 P.C. STA. = 232+82.35
 P.T. STA. = 236+98.34

SN 043-1078
 STA. 230+39 - 124' - INSERTION CULVERT LINER 84"
 W/2 CAST-IN-PLACE RC END SECTIONS, 84"
 STA 230+07.38 49.35' LT
 STA 230+65.8 45.5' RT
 U/S ELEV = 687.04
 D/S ELEV = 685.42

STA. 235+14 - 43' RT O/S
 58' - PIPE CULVERTS, CLASS D, TY 1,
 30" W/ END SECTIONS 30"
 INLET = 697.61 STA 231+24.80 34.00 RT
 OUTLET = 692.32 STA 230+95.77 51.80' RT



EDWIN D. & OLIVETTE LEVAN TRUSTEES



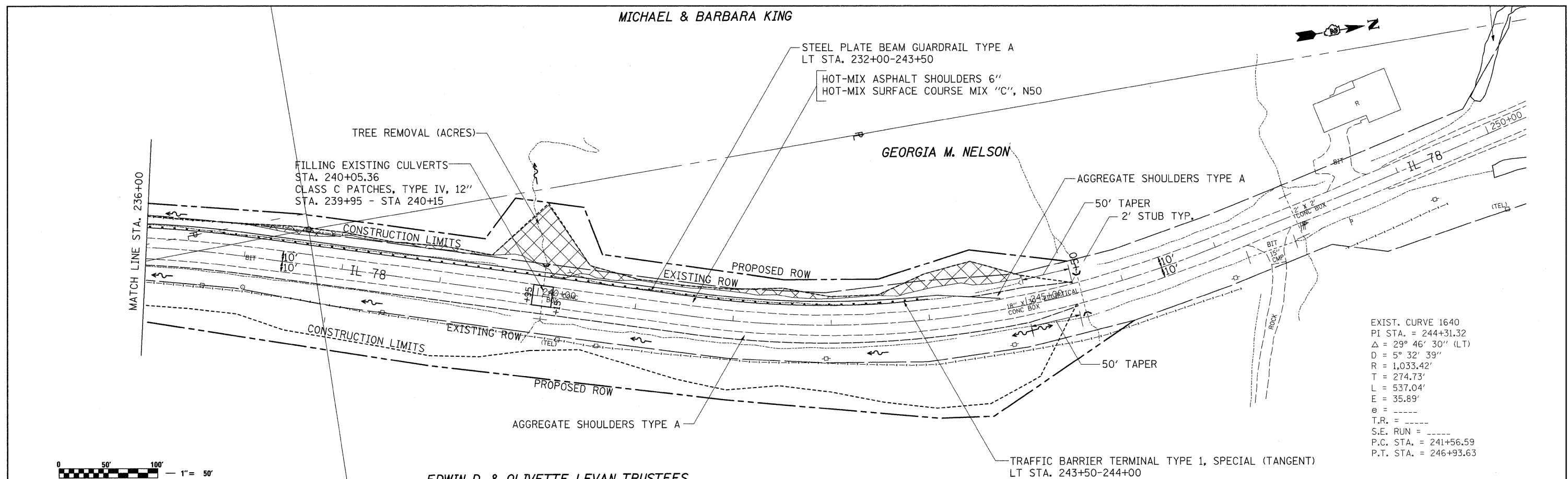
FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 78 PLAN & PROFILE	F.A.P. RTE. 642	SECTION (10-11)T	COUNTY JODAVIESS	TOTAL SHEETS 283	SHEET NO. 47
CONTRACT NO. 64D07	SCALE: 1:50	SHEET NO. OF SHEETS	STA. TO STA.			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
PLOT SCALE = 50,0000' / IN.	CHECKED -	REVISED -								
PLOT DATE = Tue Sep 30 14:08:18 2008	DATE -	REVISED -								

PLAN SURVEYED PLOTTED CHECKED BY DATE
 NOTE BOOK NO. CAD FILE NAME

PROFILE SURVEYED PLOTTED CHECKED BY DATE
 NOTE BOOK NO. STRUCTURE NOTATIONS CHRD

MICHAEL & BARBARA KING

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
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	BY	
	NO.	
	FILE NAME	

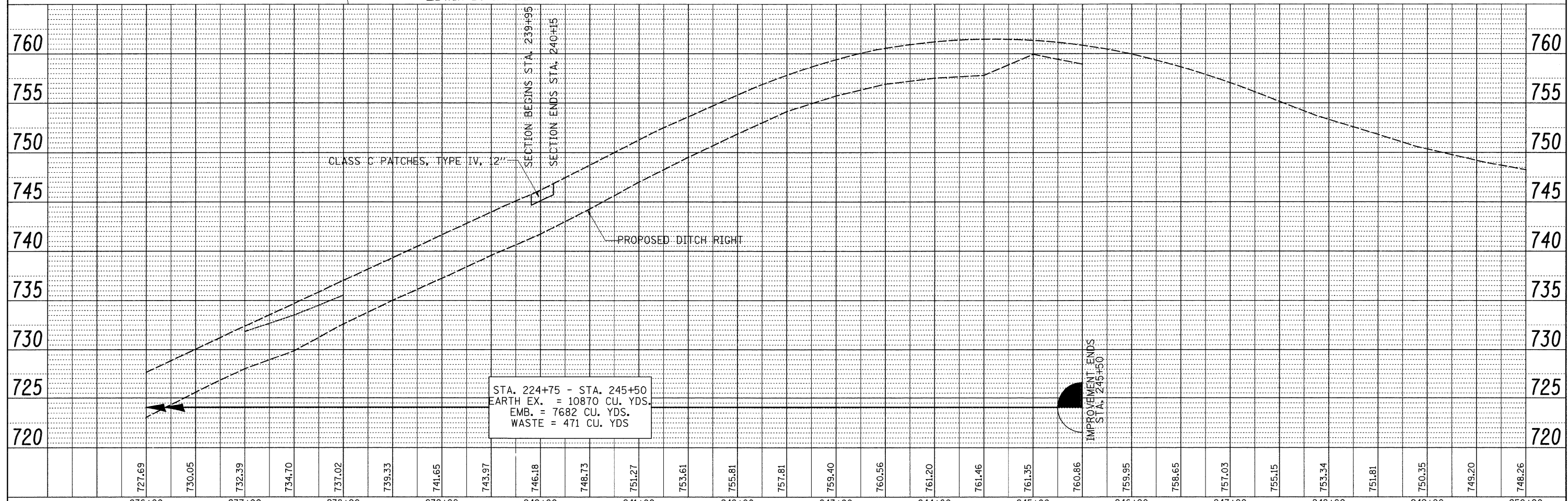


EXIST. CURVE 1640
 PI STA. = 244+31.32
 Δ = 29° 46' 30" (LT)
 D = 5° 32' 39"
 R = 1,033.42'
 T = 274.73'
 L = 537.04'
 E = 35.89'
 e = -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 241+56.59
 P.T. STA. = 246+93.63



EDWIN D. & OLIVETTE LEVAN TRUSTEES

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	
	FILE NAME	

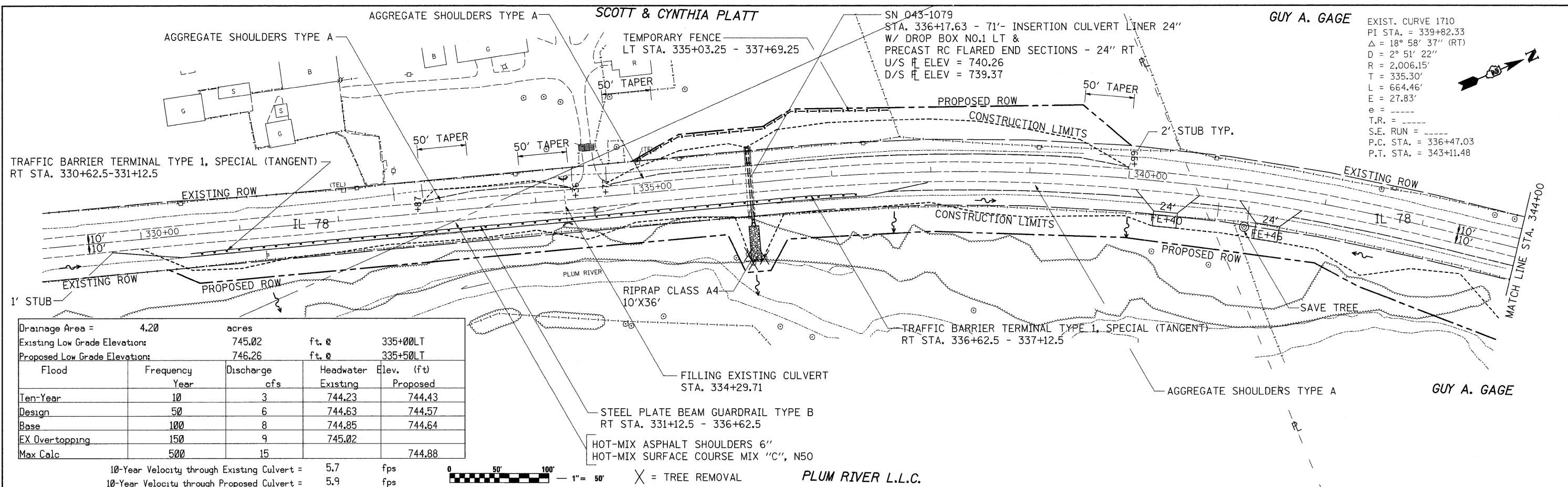


STA. 224+75 - STA. 245+50
 EARTH EX. = 10870 CU. YDS.
 EMB. = 7682 CU. YDS.
 WASTE = 471 CU. YDS

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 78 PLAN & PROFILE				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pw\work\PI\IDOT\HENSONKE\dms33697\084777.plt	7/21/08	DRAWN -	REVISED -		SCALE: 1:50	SHEET NO.	OF	SHEETS	STA.	TO	JODAVIESS	283	48
		CHECKED -	REVISED -								CONTRACT NO. 64D07		
		DATE -	REVISED -								FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

DATE: _____ BY: _____
 SURVEYED: _____ PLOTTED: _____
 CHECKED: _____ REVISIONS: _____
 NOTE BOOK NO. _____ FILE NAME: _____

DATE: _____ BY: _____
 SURVEYED: _____ PLOTTED: _____
 CHECKED: _____ REVISIONS: _____
 NOTE BOOK NO. _____ FILE NAME: _____

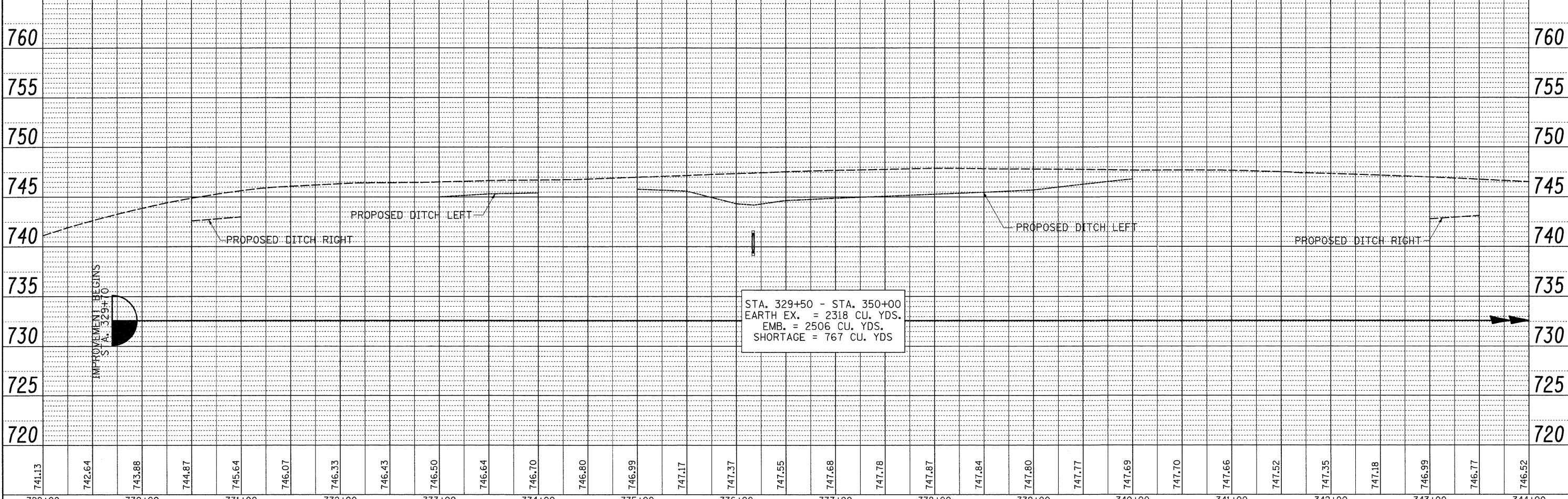


Drainage Area =		4.20		acres	
Existing Low Grade Elevations:		745.02		ft. @ 335+00LT	
Proposed Low Grade Elevations:		746.26		ft. @ 335+50LT	
Flood	Frequency	Discharge	Headwater	Elev. (ft)	
	Year	cfs	Existing	Proposed	
Ten-Year	10	3	744.23	744.43	
Design	50	6	744.63	744.57	
Base	100	8	744.85	744.64	
EX Overtopping	150	9	745.02		
Max Calc	500	15		744.88	

10-Year Velocity through Existing Culvert = 5.7 fps
 10-Year Velocity through Proposed Culvert = 5.9 fps



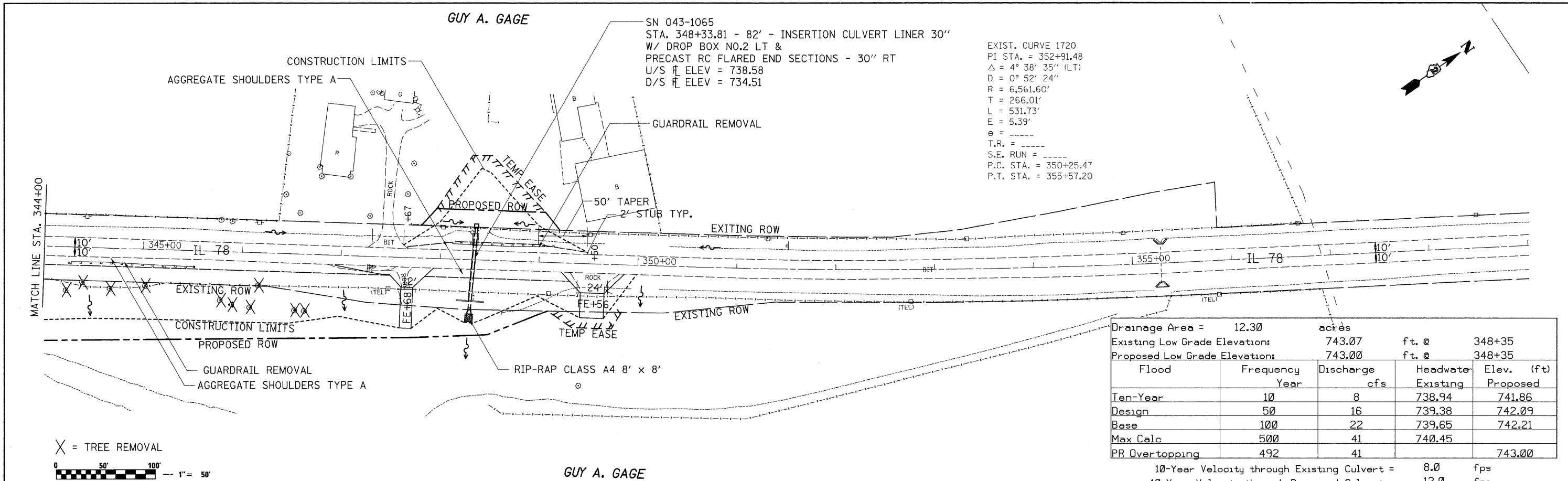
X = TREE REMOVAL
 PLUM RIVER L.L.C.



FILE NAME =	USER NAME = hansonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 78 PLAN & PROFILE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
03:\pwork\p\WID01\HENSONKE\dms33697\d04707.plndgn		DRAWN -	REVISED -			642	(10-11)T	JODAVIESS	283	50
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64D07				
PLOT DATE = Tue Sep 30 14:08:24 2008		DATE -	REVISED -			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

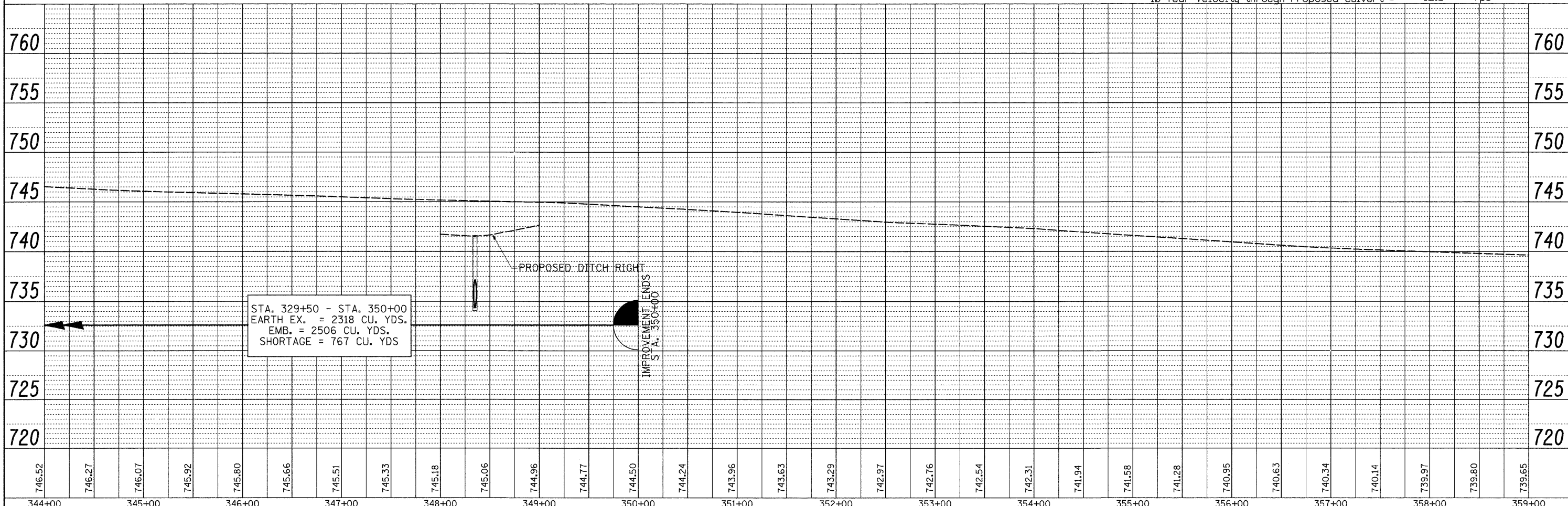
DATE	
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FILE NAME	
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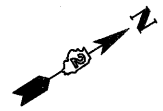
Drainage Area =	12.30	acres		
Existing Low Grade Elevation:	743.07	ft. @	348+35	
Proposed Low Grade Elevation:	743.00	ft. @	348+35	
Flood	Frequency Year	Discharge cfs	Headwater Existing	Elev. (ft) Proposed
Ten-Year	10	8	738.94	741.86
Design	50	16	739.38	742.09
Base	100	22	739.65	742.21
Max Calc	500	41	740.45	
PR Overtopping	492	41		743.00

10-Year Velocity through Existing Culvert = 8.0 fps
 10-Year Velocity through Proposed Culvert = 12.0 fps

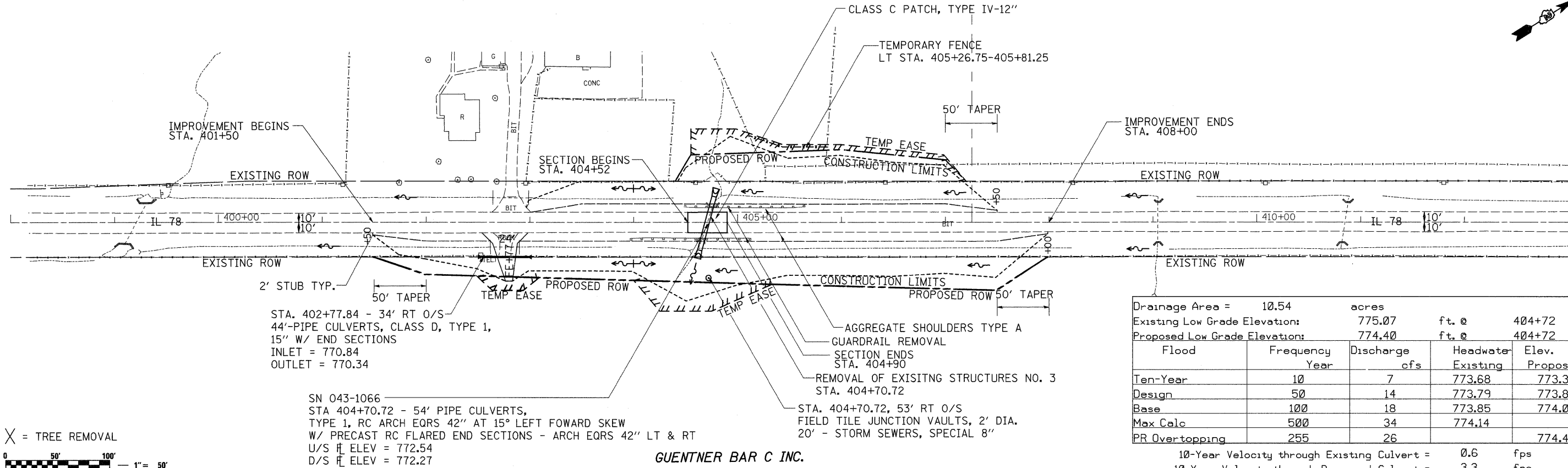


KENNETH B. & DEBRA L. ANDERSEN

BRADLEY J. & LEESA S. HATFIELD

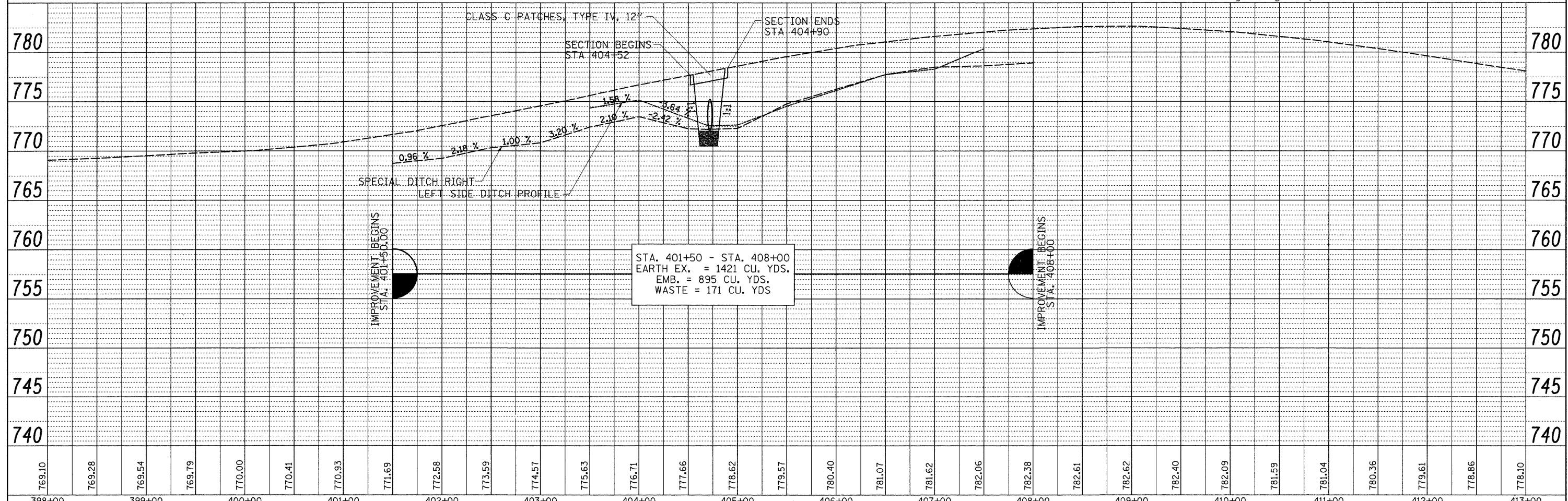


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BY	
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Drainage Area =	10.54	acres		
Existing Low Grade Elevation:	775.07	ft. @	404+72	
Proposed Low Grade Elevation:	774.40	ft. @	404+72	
Flood	Frequency Year	Discharge cfs	Headwater Existing	Elev. (ft) Proposed
Ten-Year	10	7	773.68	773.38
Design	50	14	773.79	773.80
Base	100	18	773.85	774.03
Max Calc	500	34	774.14	
PR Overtopping	255	26		774.40
10-Year Velocity through Existing Culvert =		0.6	fps	
10-Year Velocity through Proposed Culvert =		3.3	fps	

DATE	
BY	
PROFILE	
NO.	



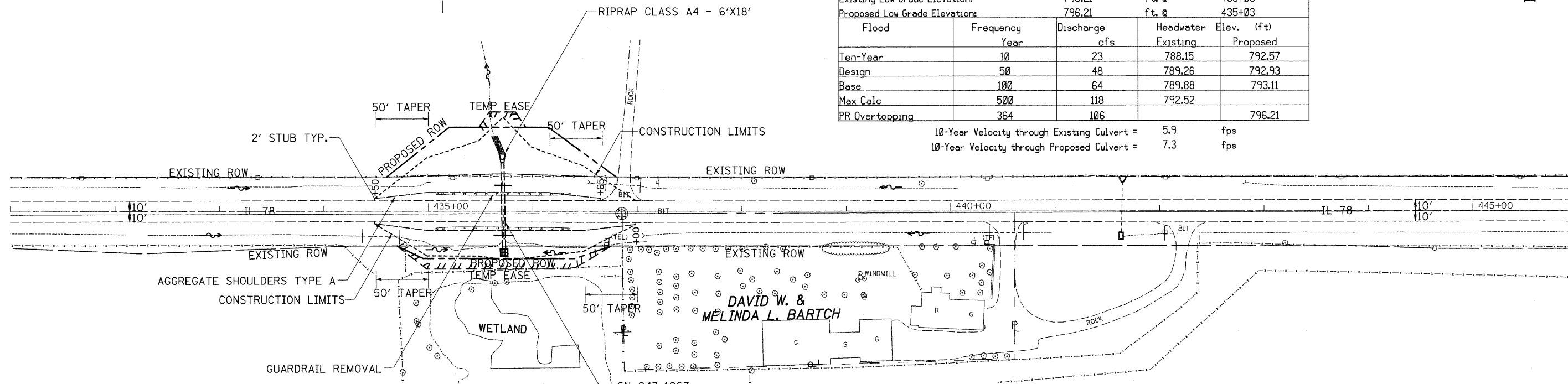
PLAN	SURVEYED	DATE
	PLOTTED	
	GRADED	
	NOTED	
	CHECKED	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADED	
	NOTED	
	CHECKED	
	FILE NAME	

ROBERT & JANE VANHAMME

Drainage Area =	37.20	acres		
Existing Low Grade Elevation:	796.21	ft. @ 435+03		
Proposed Low Grade Elevation:	796.21	ft. @ 435+03		
Flood	Frequency	Discharge	Headwater	Elev. (ft)
	Year	cfs	Existing	Proposed
Ten-Year	10	23	788.15	792.57
Design	50	48	789.26	792.93
Base	100	64	789.88	793.11
Max Calc	500	118	792.52	
PR Overtopping	364	106		796.21

10-Year Velocity through Existing Culvert = 5.9 fps
 10-Year Velocity through Proposed Culvert = 7.3 fps



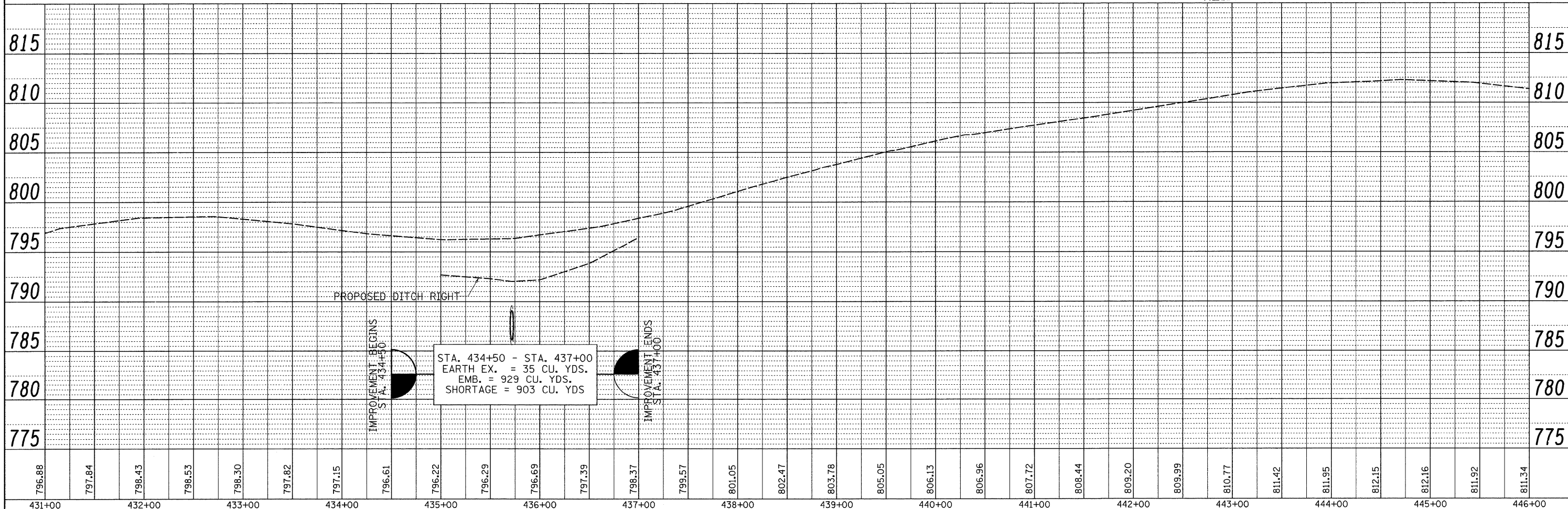
X = TREE REMOVAL



THOMAS R. & MELODY HEIDENREICH

SN 043-1067
 STA 435+71.8 - 85' - INSERTION CULVERT LINER 36"
 W/ PRECAST RC FLARED END SECTIONS 36" LT &
 DROP BOX NO.3 RT
 U/S ELEV = 786.12
 D/S ELEV = 785.67

THOMAS R. & MELODY HEIDENREICH

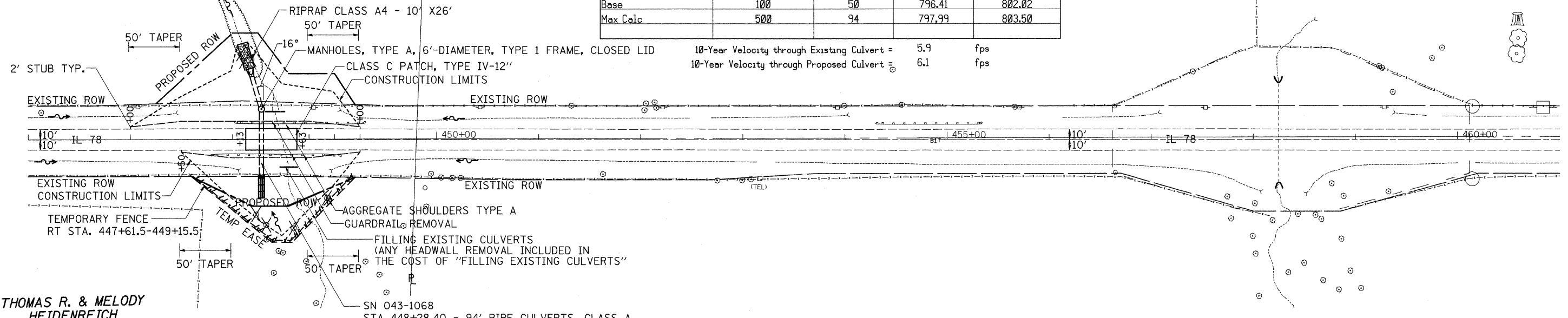


FILE NAME =	USER NAME = henssonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 78 PLAN & PROFILE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca\pwwork\pwwork\HENSONKE\dms33697\0247\7p1r\dgn	DESIGNED -	REVISED -	642			(10-11)T	JODAVIESS	283	53	
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 64D07							
PLOT DATE = Tue Sep 30 14:08:30 2008	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

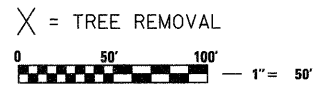
ROBERT & JANE
VANHAMME

Drainage Area =	28.40	acres		
Existing Low Grade Elevation:	807.22	ft. @	448+30	
Proposed Low Grade Elevation:	807.22	ft. @	448+30	
Flood	Frequency	Discharge	Headwater Elev. (ft)	
	Year	cfs	Existing	Proposed
Ten-Year	10	18	794.96	800.69
Design	50	38	795.91	801.56
Base	100	50	796.41	802.02
Max Calc	500	94	797.99	803.50

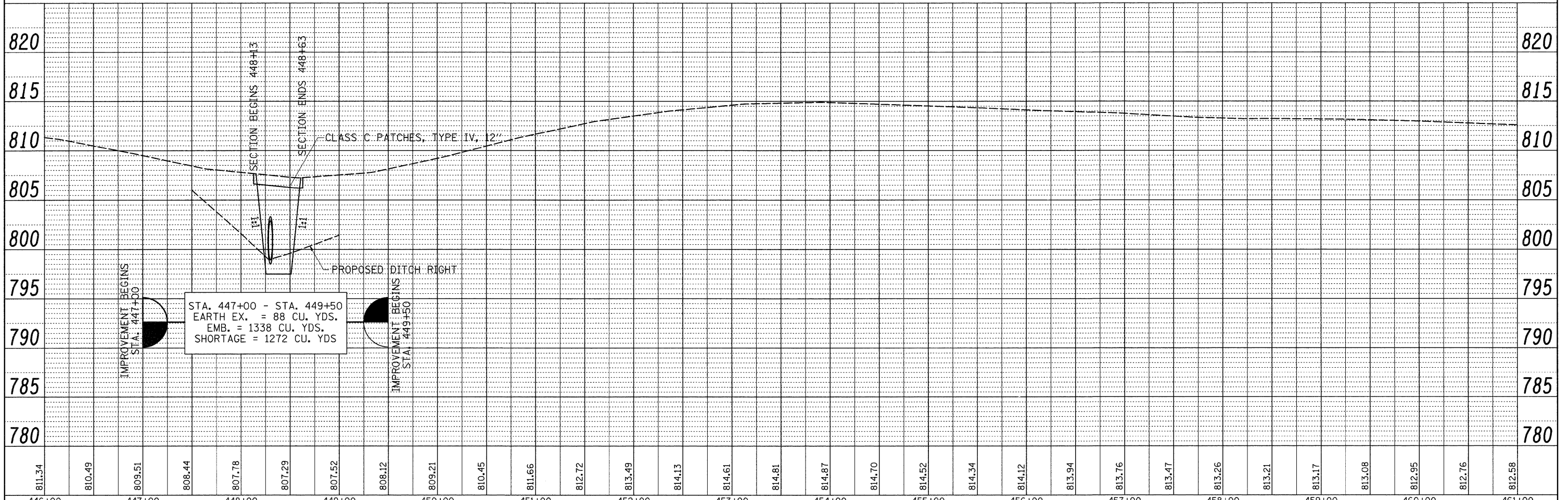
10-Year Velocity through Existing Culvert = 5.9 fps
 10-Year Velocity through Proposed Culvert = 6.1 fps



THOMAS R. & MELODY
HEIDENREICH



LOLA L. KLETT



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 78 PLAN & PROFILE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwwork\p\WIDOT\HENSONKE\dms33697\084707plindgn	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -			642	(10-11)T	JODAVIESS	283	54
PLOT DATE = Tue Sep 30 14:08:32 2008	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64D07		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		
		DATE -	REVISED -			SCALE: 1:50	SHEET NO. OF SHEETS	STA. TO STA.		

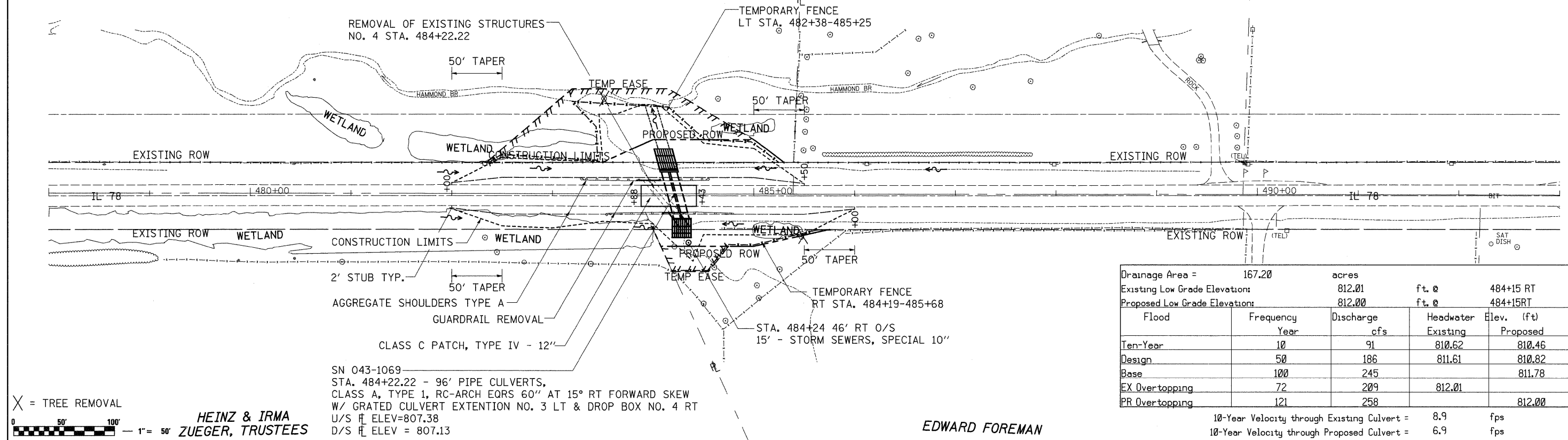
WILLIAM V. &
JANICE L. KEHL

JAMES E. & KATHY S.
WILLIAMS



DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
BY	
NOTE BOOK	
NO.	
CADD FILE NAME	

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
BY	
NOTE BOOK	
NO.	
STRUCTURE NOTATIONS CHRD	



Drainage Area =	167.20	acres		
Existing Low Grade Elevation:	812.01	ft. @	484+15 RT	
Proposed Low Grade Elevation:	812.00	ft. @	484+15RT	
Flood	Frequency	Discharge	Headwater	Elev. (ft)
	Year	cfs	Existing	Proposed
Ten-Year	10	91	810.62	810.46
Design	50	186	811.61	810.82
Base	100	245		811.78
EX Overtopping	72	209	812.01	
PR Overtopping	121	258		812.00

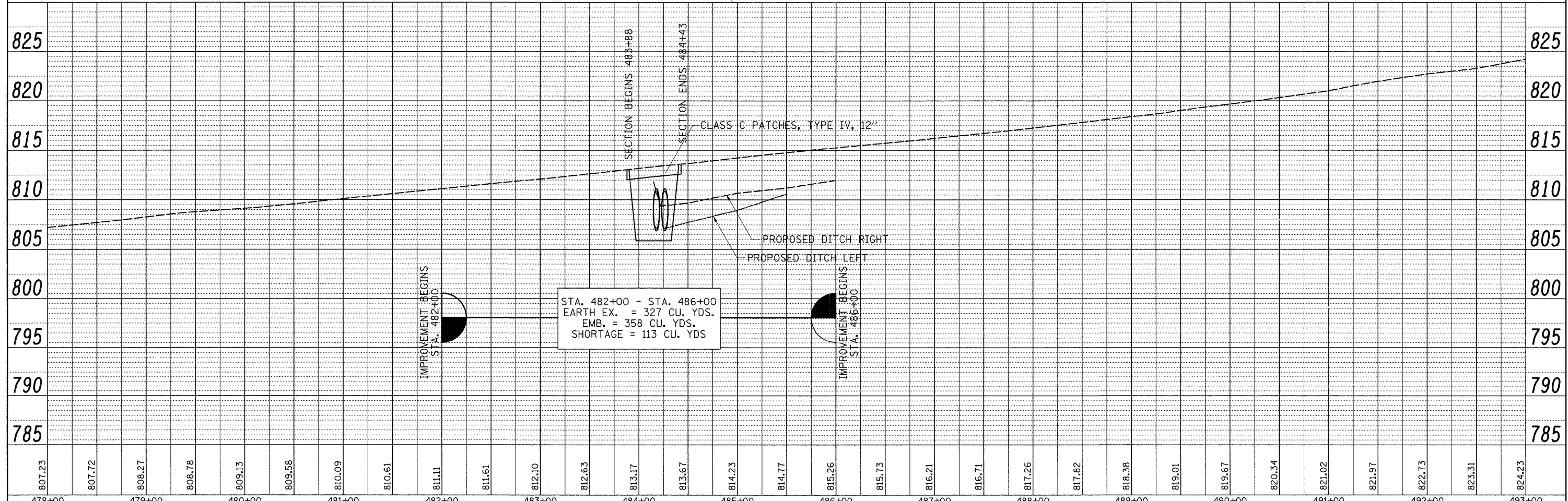
10-Year Velocity through Existing Culvert = 8.9 fps
10-Year Velocity through Proposed Culvert = 6.9 fps

X = TREE REMOVAL

HEINZ & IRMA
ZUEGER, TRUSTEES

SN 043-1069
STA. 484+22.22 - 96' PIPE CULVERTS,
CLASS A, TYPE 1, RC-ARCH EQRS 60" AT 15° RT FORWARD SKEW
W/ GRATED CULVERT EXTENTION NO. 3 LT & DROP BOX NO. 4 RT
U/S ELEV=807.38
D/S ELEV = 807.13

EDWARD FOREMAN

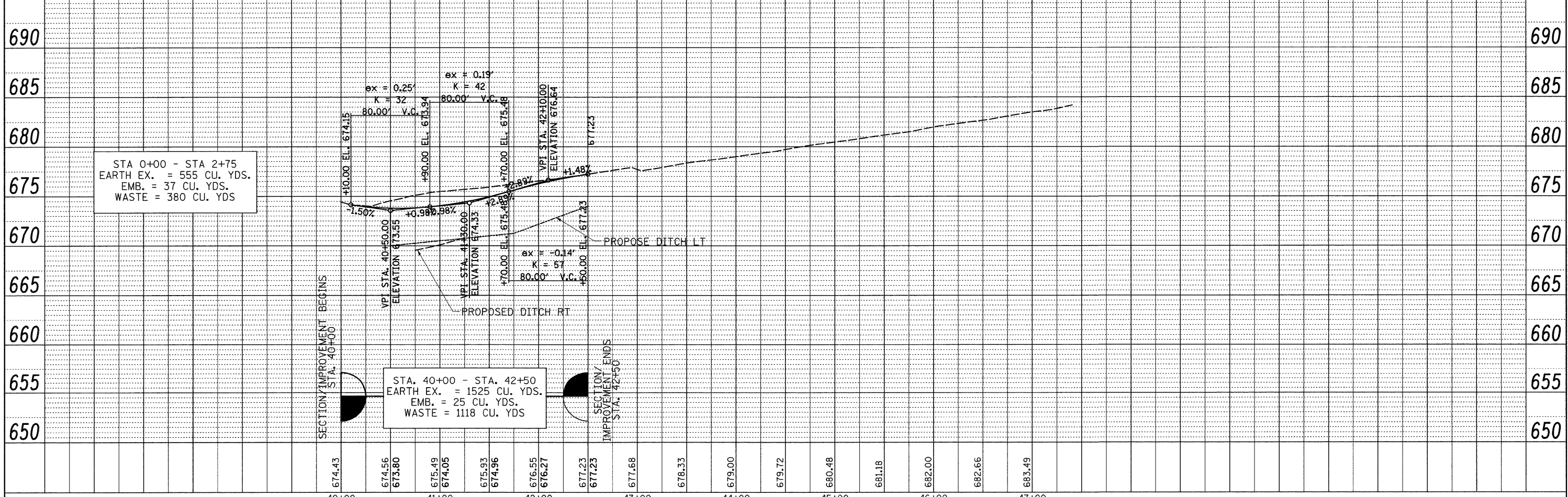
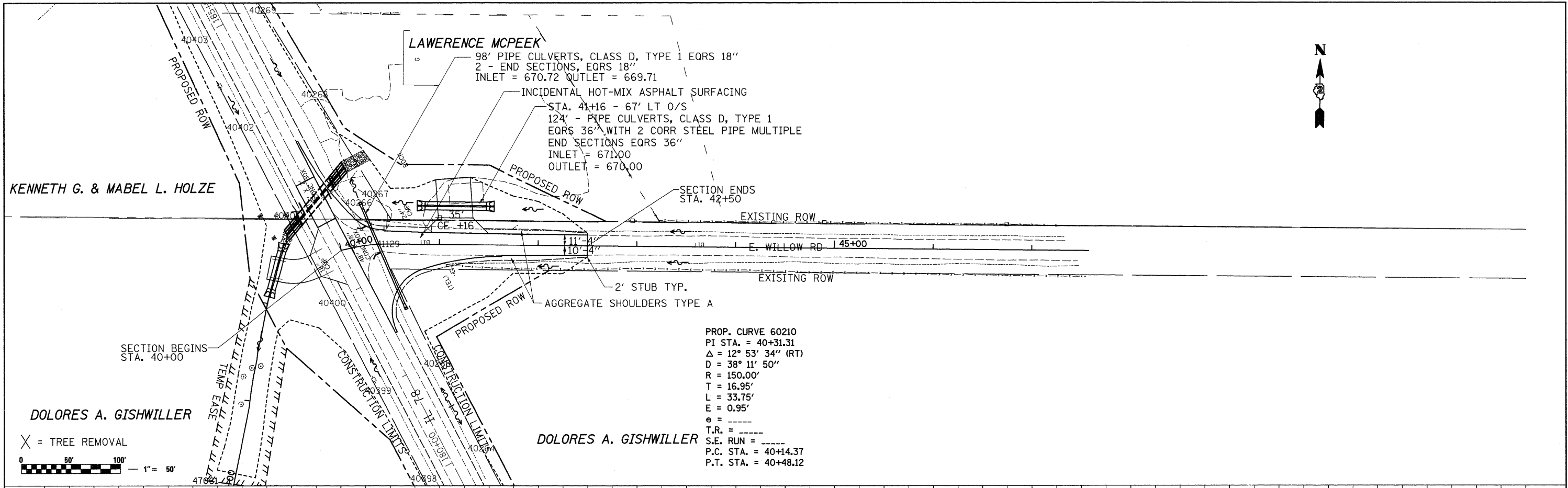


STA. 482+00 - STA. 486+00
EARTH EX. = 327 CU. YDS.
EMB. = 358 CU. YDS.
SHORTAGE = 113 CU. YDS

FILE NAME =	USER NAME = hensonike	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 78 PLAN & PROFILE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca\pwwork\pwwidot\HENSONKE\dms33697\047777.plt	17.plt	DRAWN -	REVISED -			642	(10-11)T	JODAVIESS	283	55	
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64D07					
PLOT DATE = Tue Sep 30 14:08:33 2008		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	REVISIONS	
	BY	
	DATE	
	NO.	
	FILE NAME	

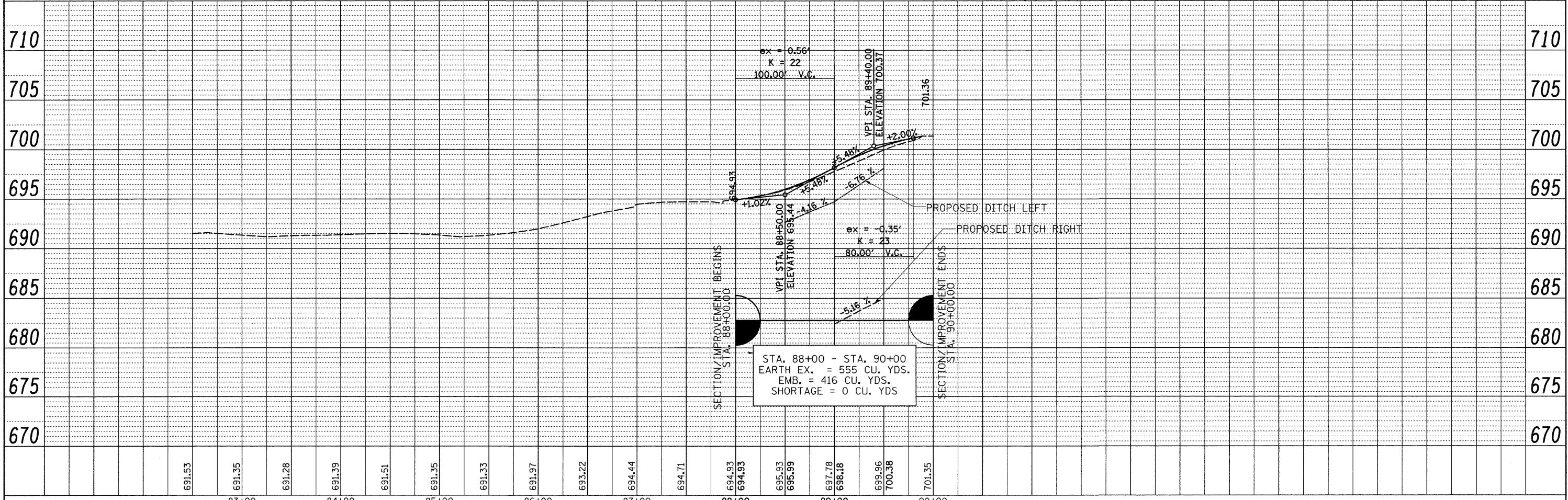
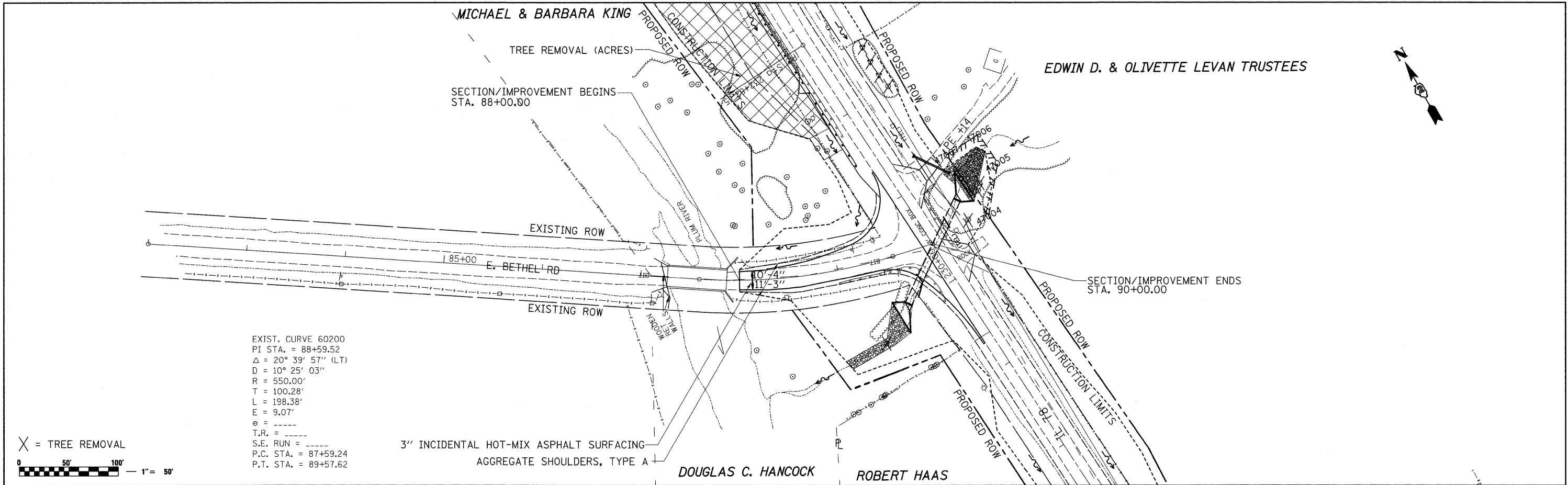
PROFILE	SURVEYED	DATE
	PLOTTED	
	NOTED	
	REVISIONS	
	BY	
	DATE	
	NO.	
	FILE NAME	



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WILLOW ROAD PLAN & PROFILE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pwwork\pwwork\HENSONKE\dms33697\d084777.plt	7/1/2008	DRAWN -	REVISED -			642	(10-11)T	JODAVIESS	283	57	
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64D07					
PLOT DATE = Tue Sep 30 14:08:37 2008		DATE -	REVISED -			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	RT. OF WAY CHECKED		
	CADD FILE NAME		
	NO.		

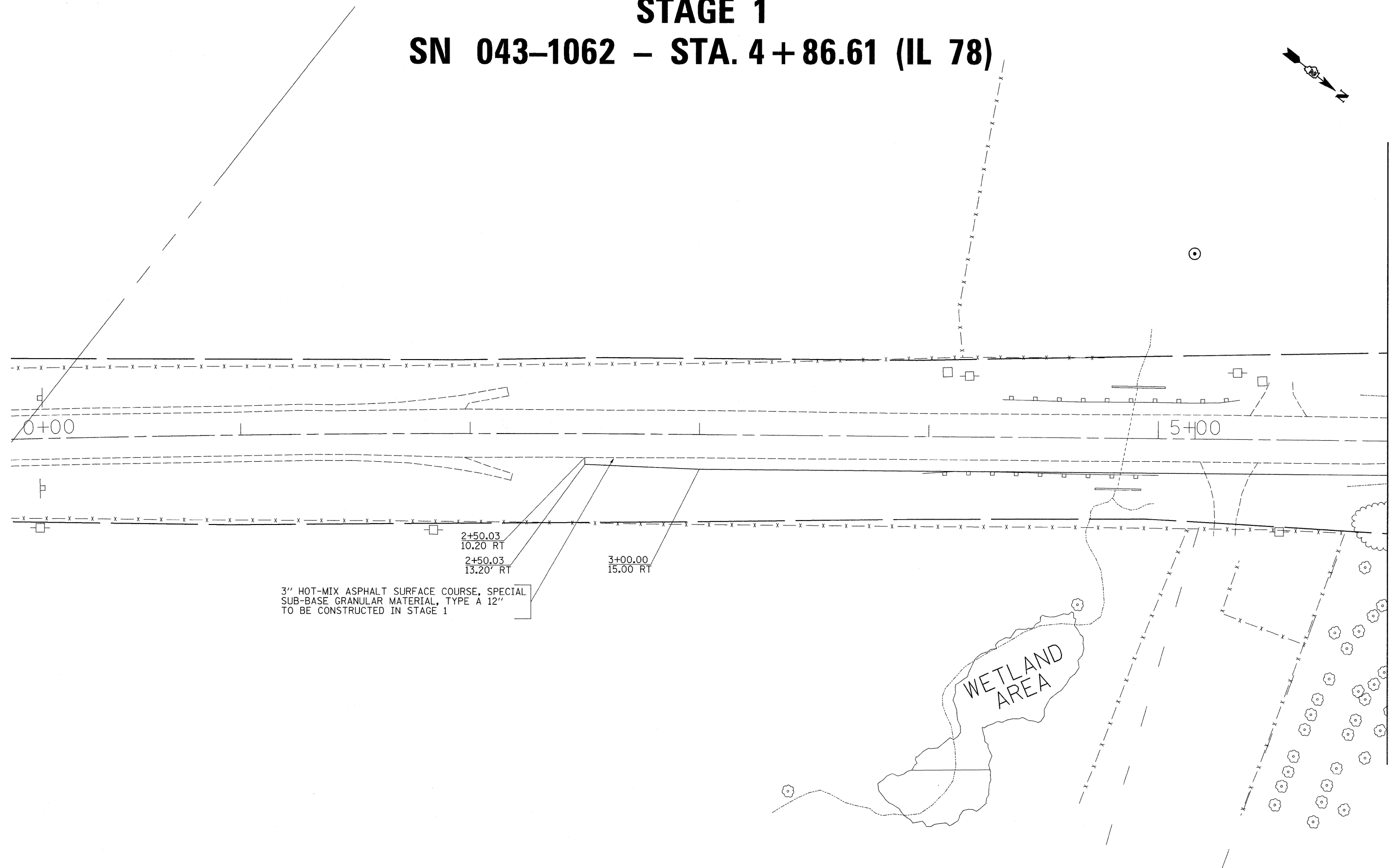
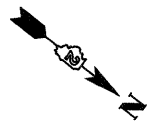
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	RT. OF WAY CHECKED		
	STRUCTURE NOTATIONS CHKD		
	NO.		



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BETHEL ROAD PLAN & PROFILE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca\pw\work\PWIDOT\HENSONKE\dms33697\d04707.plt.dgn		DRAWN -	REVISED -			642	(10-11)T	JODAVIESS	283	58
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64D07				
PLOT DATE = Tue Sep 30 14:08:38 2008		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
SCALE: 1:50						SHEET NO. OF SHEETS STA. TO STA.				

STAGE 1

SN 043-1062 - STA. 4+86.61 (IL 78)



3" HOT-MIX ASPHALT SURFACE COURSE, SPECIAL
SUB-BASE GRANULAR MATERIAL, TYPE A 12"
TO BE CONSTRUCTED IN STAGE 1

2+50.03
10.20' RT
2+50.03
13.20' RT
3+00.00
15.00' RT

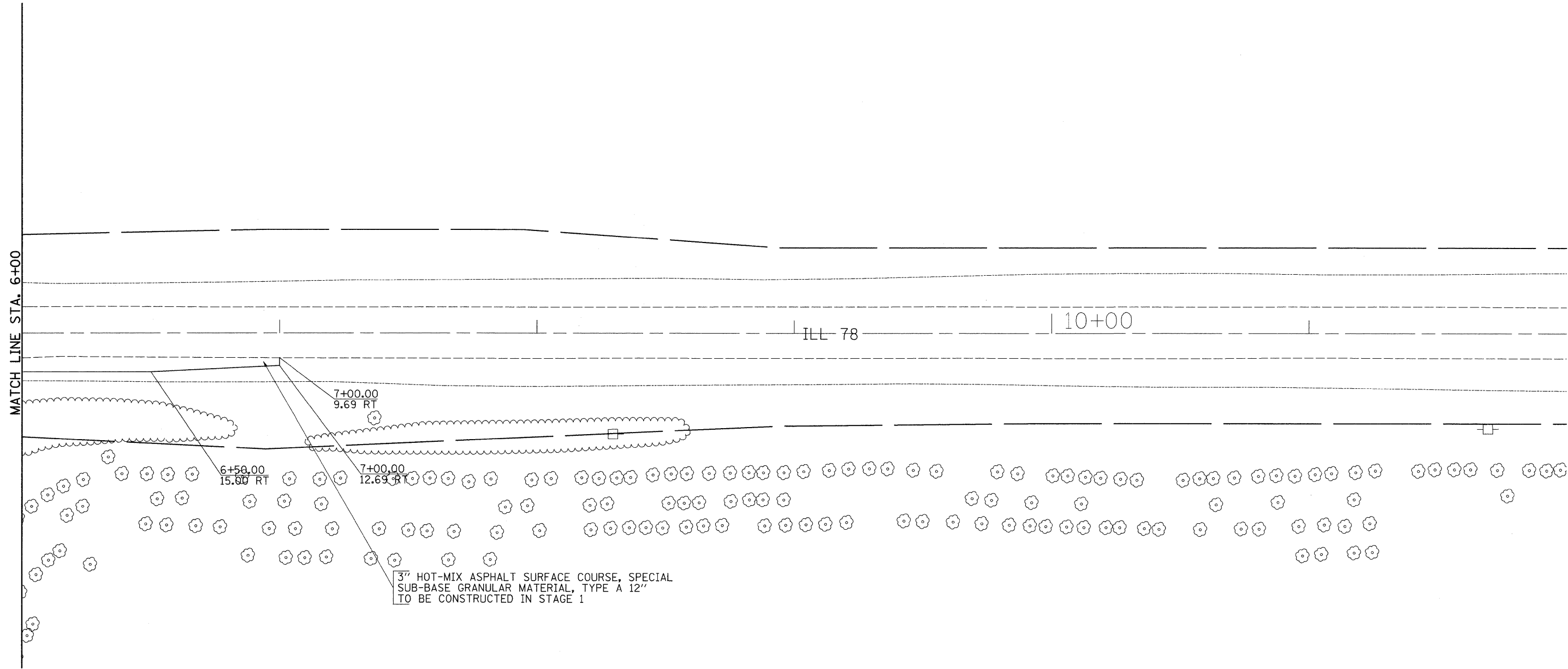
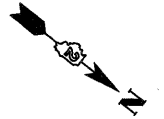


MATCH LINE STA. 6+00

FILE NAME <small>o:\pwork\p1001\HENSONKE\dms33697\08787stg.dgn</small>	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 2 DETAILS - SN 043-1062			F.A.P. RTE. 642	SECTION (10,11)T	COUNTY JODAVIESS	TOTAL SHEETS 283	SHEET NO. 59
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -		SCALE: 20	SHEET NO. OF SHEETS	STA. 0+00 TO STA. 6+00	CONTRACT NO. 64D07				
	PLOT DATE = Tue Sep 30 11:07:43 2008	DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

STAGE 1

SN 043-1062 - STA. 4+86.61 (IL 78)



3" HOT-MIX ASPHALT SURFACE COURSE, SPECIAL
 SUB-BASE GRANULAR MATERIAL, TYPE A 12"
 TO BE CONSTRUCTED IN STAGE 1

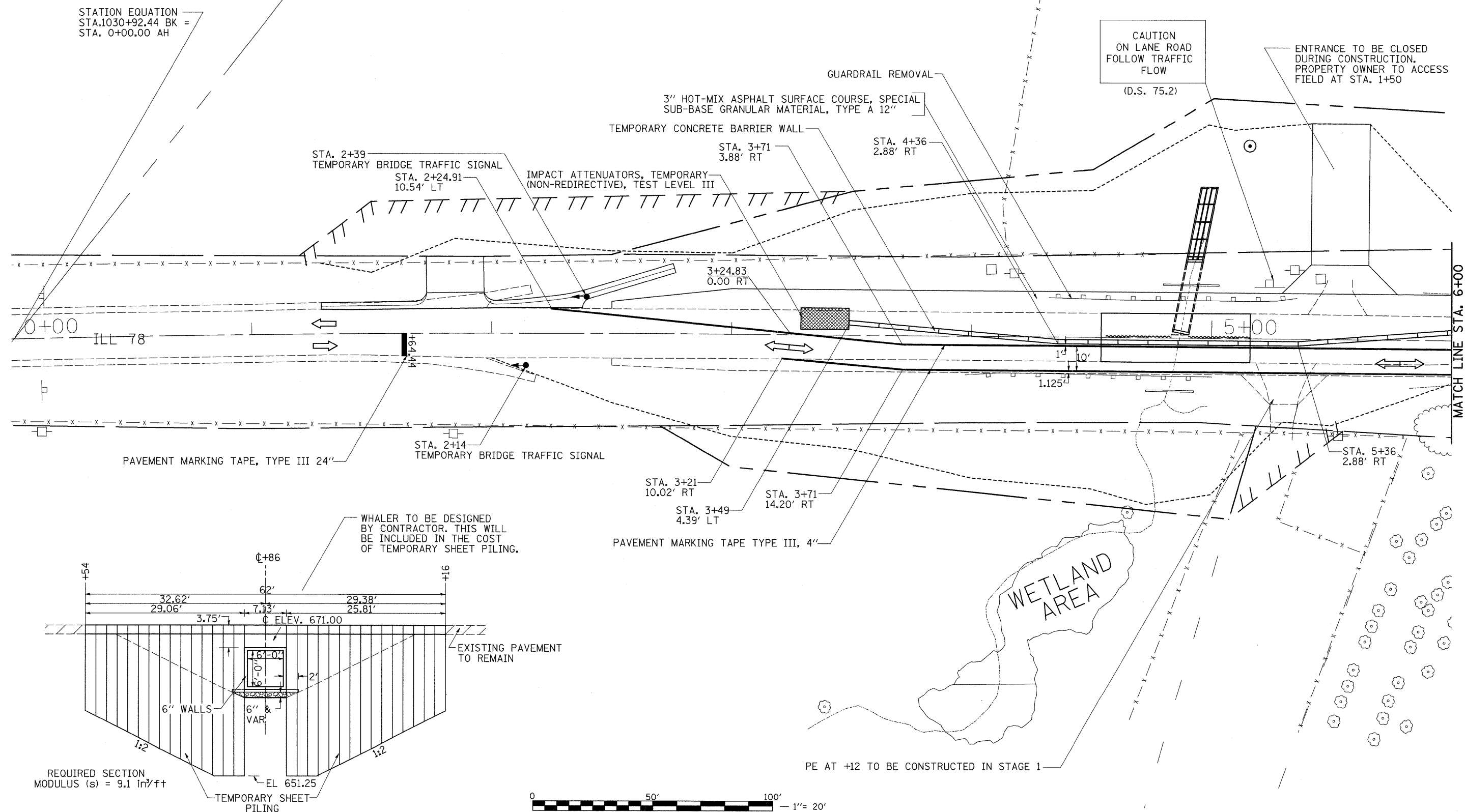
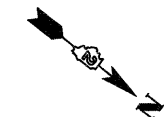


FILE NAME c:\pwork\pwwdot\HENSONKE\dms33697\80787stg.dgn	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 2 DETAILS - SN 043-1062	F.A.P. RTE. 642	SECTION (10,11)T	COUNTY JODAVIESS	TOTAL SHEETS 283	SHEET NO. 60	
PLOT SCALE = 20,0000' / IN.						SCALE: 20' SHEET NO. OF SHEETS STA. 0+00 TO STA. 6+00					
PLOT DATE = Tue Sep 30 11:07:42 2008						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
DATE -						CONTRACT NO. 64D07					

STAGE 2

SN 043-1062 - STA. 4+86.61 (IL 78)

NOTES:
TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321.

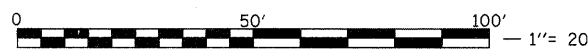
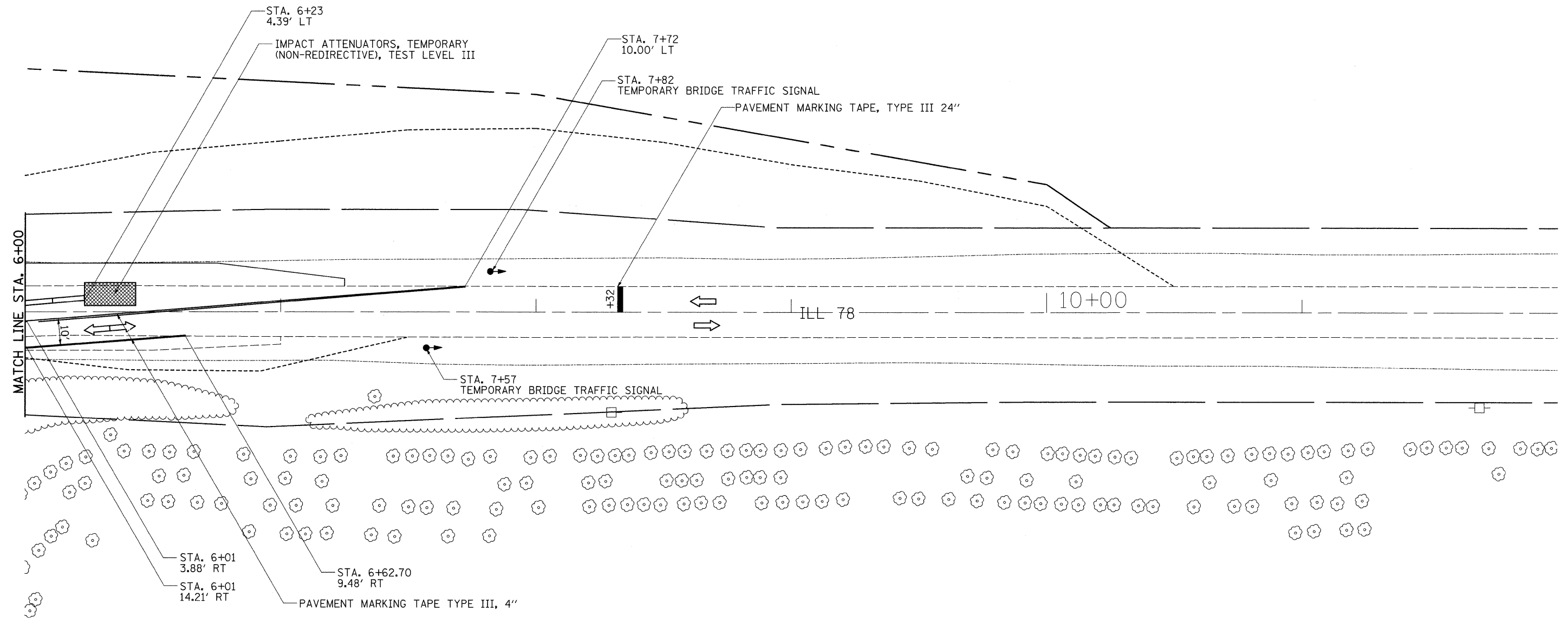
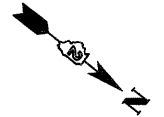


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os:\pwork\PIWID01\HENSONKE\dms33697\80787stg.dgn	PLOT SCALE = 20.0000' / IN.	DRAWN -	REVISED -			642	(10,11)T	JODAVIESS	283	61	
PLOT DATE = Tue Sep 30 11:07:38 2008	DATE -	CHECKED -	REVISED -			SCALE: 20		SHEET NO. OF SHEETS		STA. 0+00 TO STA. 6+00	
						CONTRACT NO. 64D07		FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT	

NOTES:
TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321.

STAGE 2

SN 043-1062 - STA. 4+86.61 (IL 78)



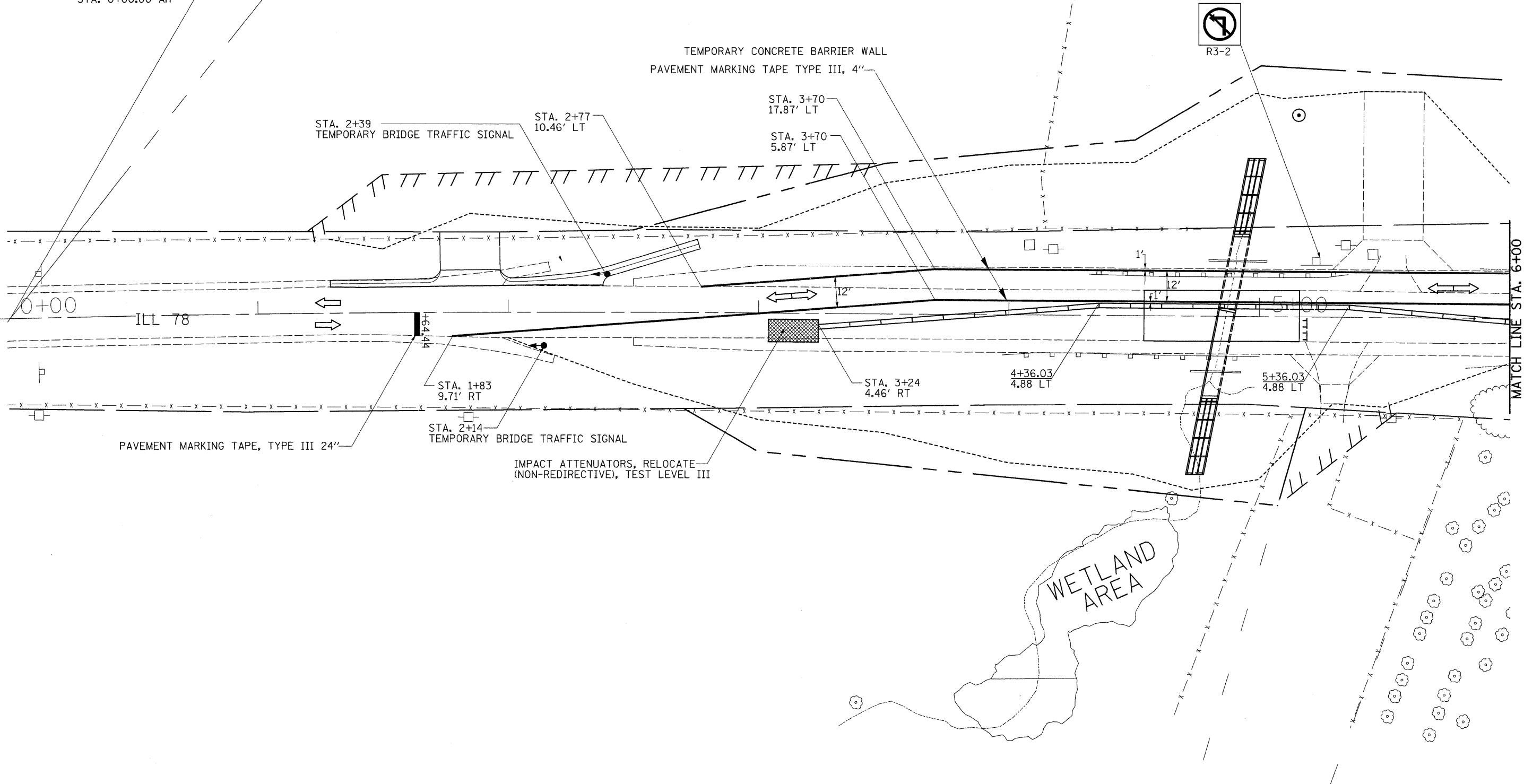
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cr:\pwwork\pwwid01\HENSONKE\dms33697\ad0707stg.dgn		DRAWN -	REVISED -		642	(10,11)T	JODAVIESS	283	62			
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	PLOT DATE = Tue Sep 30 11:07:38 2008	DATE -	REVISED -		FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		CONTRACT NO. 64D07		

STAGE 3

SN 043-1062 - STA. 4+86.61 (IL 78)

NOTES:
TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321.

STATION EQUATION
STA. 1030+92.44 BK =
STA. 0+00.00 AH

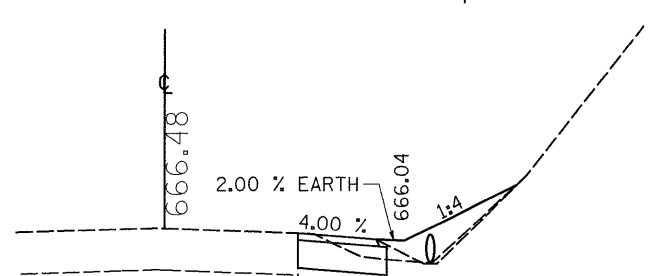
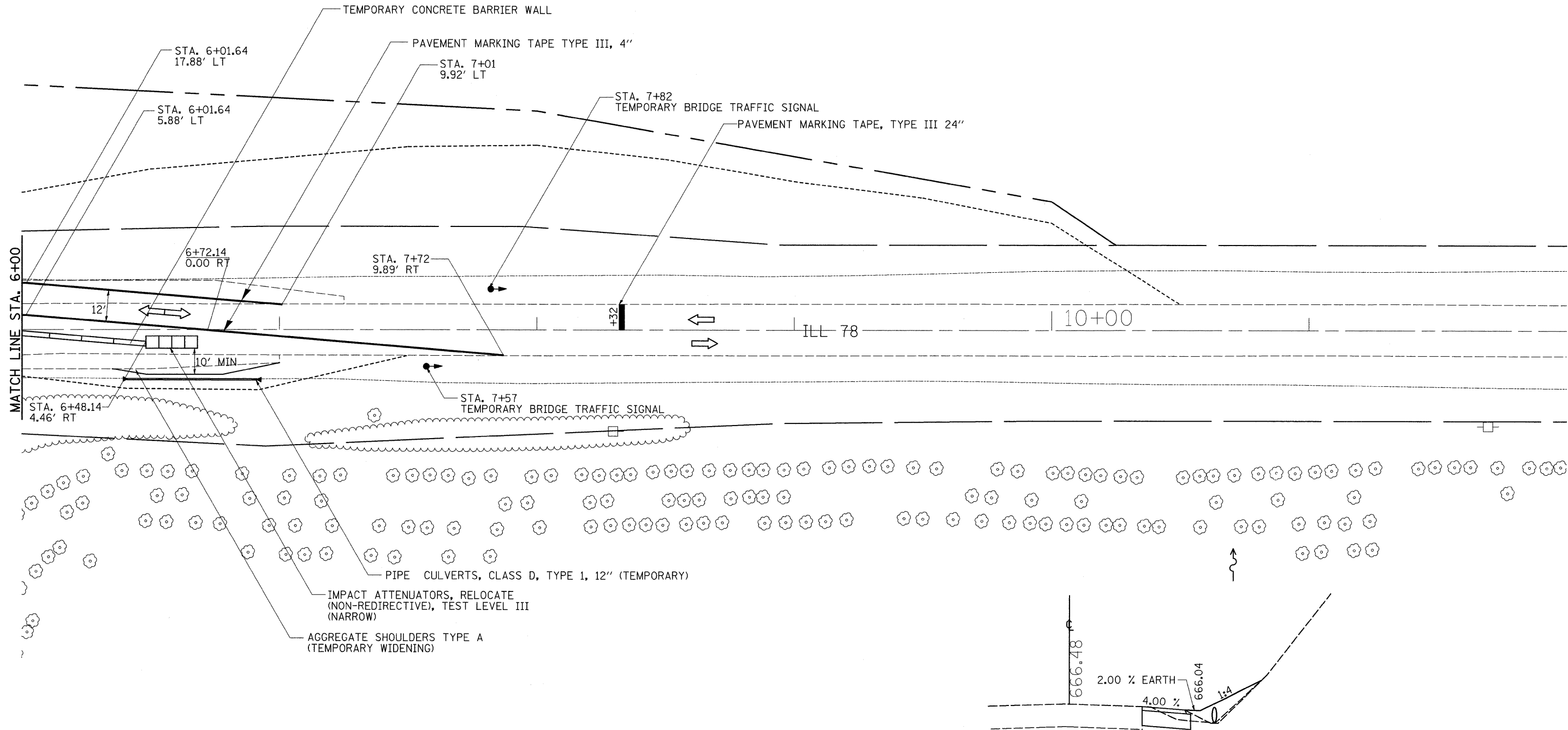
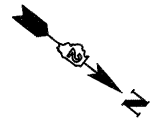


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02:\pw_work\PWIDOT\HENSONKE\dms33697\d0707.stg.dgn	707.stg.dgn	DRAWN -	REVISED -					642	(10,11)T	JODAVIESS	283	63
PLOT SCALE = 28,0000' / IN.		CHECKED -	REVISED -					CONTRACT NO. 64D07				
PLOT DATE = Tue Oct 07 10:28:38 2008		DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
				SCALE: 20	SHEET NO. OF SHEETS	STA. 0+00 TO STA. 6+00						

NOTES:
TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321.

STAGE 3

SN 043-1062 - STA. 4+86.61 (IL 78)



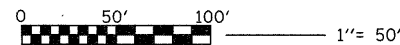
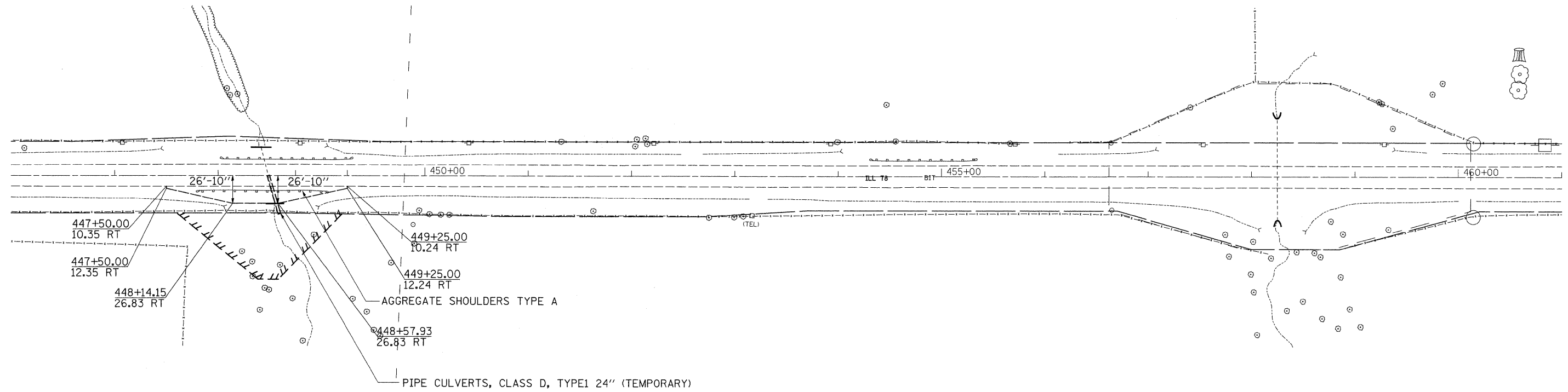
DETAIL SHOWING PIPE CULVERTS, CLASS D, TYPE 1, 12" (TEMPORARY)



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 3 DETAILS - SN 043-1062	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ot\pwork\PIWIDOT\HENSONKE\dms33697\d0707stg.dgn		DRAWN -	REVISED -			642	(10,11)T	JODAVIESS	283	64	
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -			CONTRACT NO. 64D07					
PLOT DATE = Tue Sep 30 11:07:40 2008		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
					SCALE: 20	SHEET NO. OF SHEETS		STA. 6+00 TO STA. 12+00			

STAGING DETAILS

SN 043-1068 - STA. 448+28.40 (IL 78)



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 1 DETAILS - SN 043-1068	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
cr:\pw\work\PW100T\HENSONKE\dms33697\d8787stg.dgn	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -			6/2	(10,11)T	JODAVIESS	283	65	
	PLOT DATE = Tue Sep 30 11:07:40 2008	CHECKED -	REVISED -			SCALE: 50		SHEET NO. OF SHEETS		STA. 441+00 TO STA. 461+00	
		DATE -	REVISED -			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

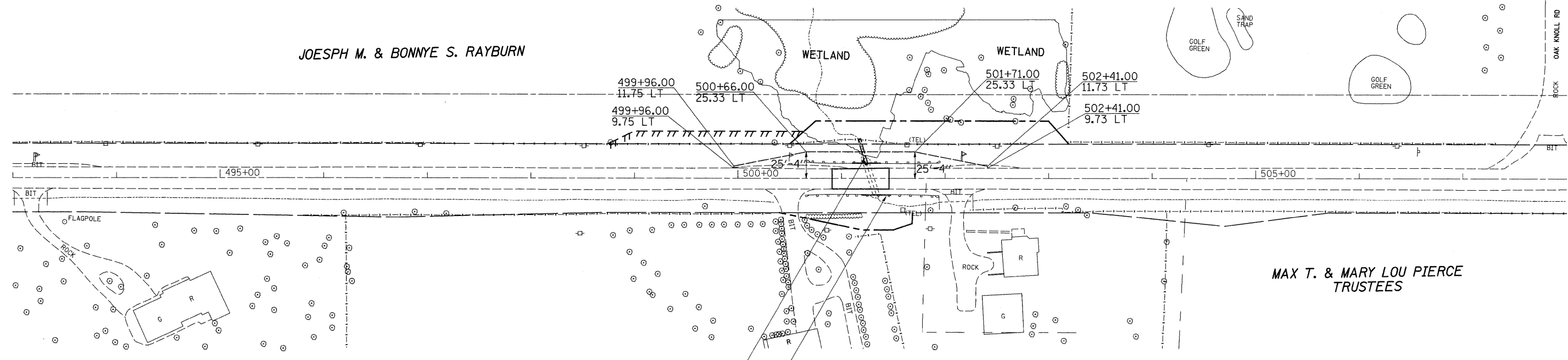
STAGING DETAILS

SN 043-1070 - STA. 501+17 (IL 78)



BLACK HAWK RUN GOLF CLUB
C/O DONNA DOUGHERTY

JOESPH M. & BONNYE S. RAYBURN



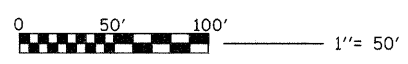
MAX T. & MARY LOU PIERCE
TRUSTEES

ASEF & ROKSHANA ZAHEEN

PIPE CULVERTS, CLASS D, TYPE1 36" (TEMPORARY)

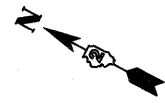
KAREN SCHAIBLE ET. AL.

AGGREGATE SHOULDERS TYPE A
CHRISTOPHER & RENEE LACHER



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 1 DETAILS - SN 043-1070	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cr:\pwork\pwork\HENSONKE\dms33697\ad787stg.dgn	PLOT SCALE = 50.00000' / IN.	DRAWN -	REVISED -			642	(10,11)T	JODAVIESS	283	66
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				SCALE: 50		SHEET NO. OF SHEETS		STA. TO STA.		

183+60.17
326.96' RT



2 CENTERED CURVE - #2
45'R - 315'R
12' OFFSET

1' STUB

182+80.58
68.96' RT

STA 182+42.32 (IL 78)
STA 40+00
(PROPOSED E. WILLOW RD)

10'
INTERVALS

E WILLOW RD

CENTERED CURVE - #1
45'R - 270'R
10' OFFSET

181+42.87
56.95' RT

10'
INTERVALS

1' STUB

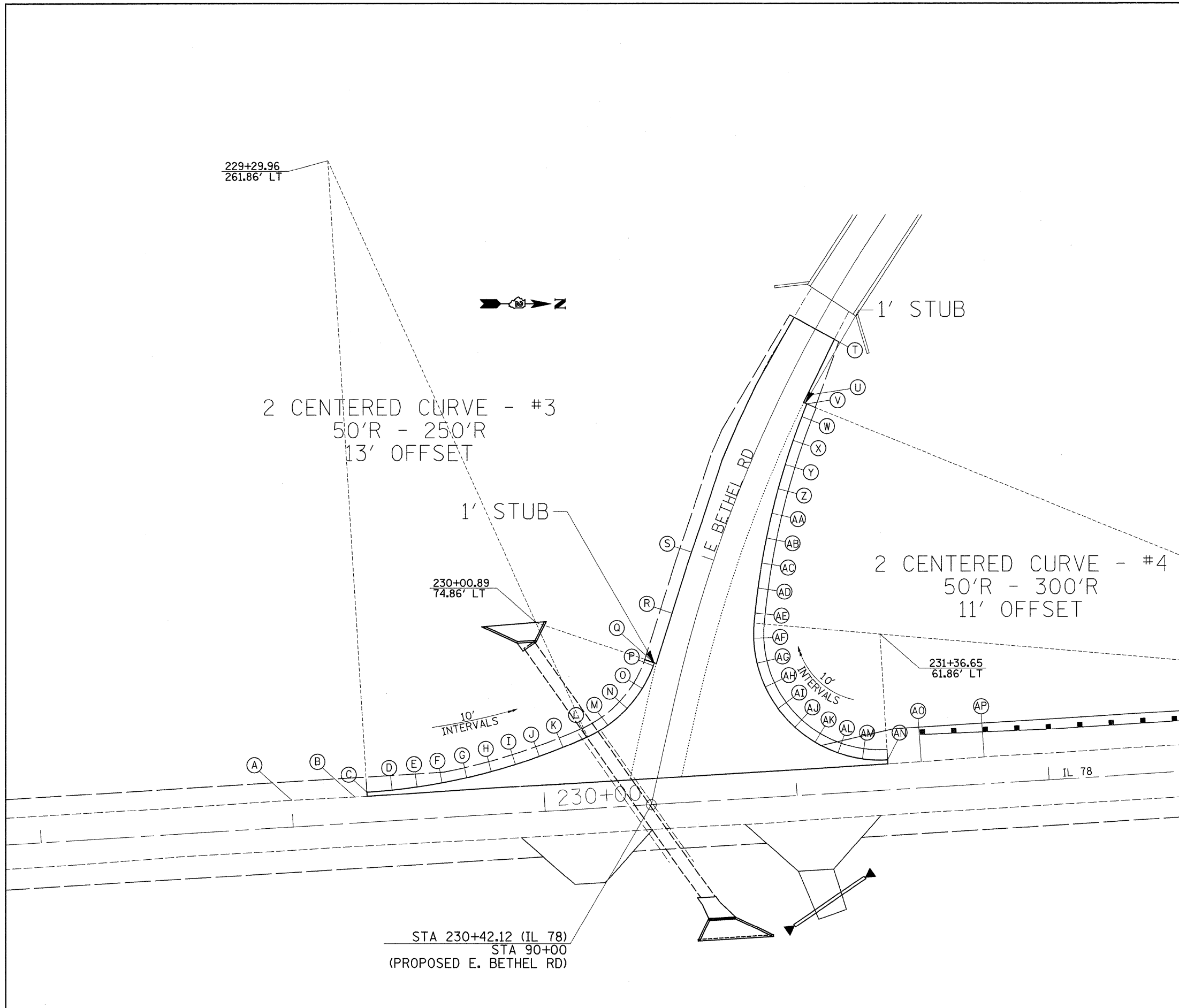
185+00

IL 78

180+00

179+21.30
17.80' RT

	STATION IL 78	OFFSET IL 78	PROPOSED EDGE OF PAVEMENT ELEVATION
A	184+00.00	10.27' RT	674.46
B	183+75.00	10.29' RT	674.45
C	183+60.19	12.00' RT	674.38
D	183+50.18	12.11' RT	674.36
E	183+40.20	12.59' RT	674.34
F	183+30.23	13.39' RT	674.30
G	183+20.29	14.50' RT	674.25
H	183+10.39	15.92' RT	674.19
I	183+00.54	17.66' RT	674.11
J	182+90.76	19.70' RT	673.95
K	182+81.04	22.06' RT	673.77
L	182+71.40	24.73' RT	673.63
M	182+62.97	27.99' RT	673.41
	STATION PROPOSED WILLOW ROAD	OFFSET PROPOSED WILLOW ROAD	PROPOSED EDGE OF PAVEMENT ELEVATION
N	40+27.31	20.02' LT	673.45
O	40+35.41	15.85' LT	673.56
P	40+43.81	14.28' LT	673.62
Q	40+50.00	12.98' LT	673.60
R	40+75.00	12.29' LT	673.64
S	42+00.00	10.33' RT	676.12
T	41+75.00	10.65' RT	675.47
U	41+63.14	11.67' RT	675.11
V	41+53.80	11.99' RT	674.84
W	41+43.83	12.69' RT	674.57
X	41+33.89	13.77' RT	674.31
Y	41+23.99	15.20' RT	674.06
Z	41+14.16	17.01' RT	673.81
AA	41+04.39	19.18' RT	673.57
AB	40+94.72	21.71' RT	673.34
AC	40+85.15	24.59' RT	673.12
AD	40+75.95	28.45' RT	672.83
AE	40+67.82	34.23' RT	672.98
AF	40+61.15	41.66' RT	673.13
	STATION IL 78	OFFSET IL 78	PROPOSED EDGE OF PAVEMENT ELEVATION
AG	181+77.81	28.59' RT	673.27
AH	181+70.70	21.59' RT	673.42
AI	181+62.22	16.32' RT	673.71
AJ	181+52.79	13.06' RT	673.86
AK	181+42.88	12.00' RT	673.87
AL	181+25.00	10.16' RT	673.90
AM	181+00.00	10.44' RT	673.82

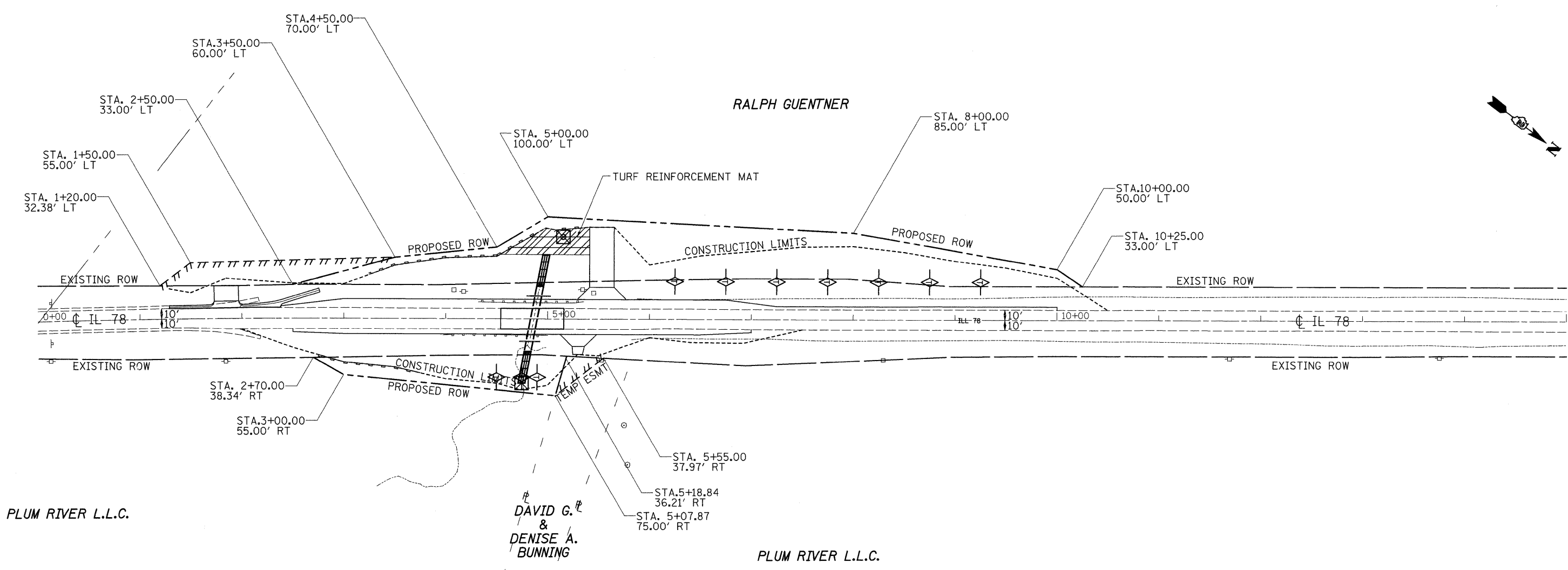





	STATION IL 78	OFFSET IL 78	PROPOSED EDGE OF PAVEMENT ELEVATION
A	229+00.00	10.60' LT	696.45
B	229+25.00	10.37' LT	697.27
C	229+29.97	12.00' LT	697.27
D	229+39.96	12.08' LT	697.59
E	229+49.94	12.68' LT	697.87
F	229+59.89	13.67' LT	698.14
G	229+69.79	15.12' LT	698.41
H	229+79.62	16.93' LT	698.63
I	229+89.38	19.13' LT	698.88
J	229+99.04	21.72' LT	699.14
K	230+08.58	24.68' LT	699.45
L	230+18.20	28.11' LT	699.77
	STATION PROPOSED BETHEL ROAD	OFFSET PROPOSED BETHEL ROAD	PROPOSED EDGE OF PAVEMENT ELEVATION
M	89+73.04	23.58' RT	700.40
N	89+64.98	17.69' RT	700.43
O	89+55.95	13.53' RT	700.31
P	89+46.42	11.35' RT	700.08
Q	89+45.27	11.24' RT	700.04
R	89+25.00	9.53' RT	699.27
S	89+00.00	9.38' RT	698.04
T	88+00.00	8.58' LT	694.80
U	88+25.00	9.28' LT	695.18
V	88+28.33	10.70' LT	695.23
W	88+33.66	11.09' LT	695.36
X	88+43.83	11.94' LT	695.57
Y	88+54.14	12.93' LT	695.86
Z	88+64.31	14.07' LT	696.19
AA	88+74.39	15.36' LT	696.58
AB	88+84.58	16.80' LT	697.00
AC	88+94.78	18.39' LT	697.47
AD	89+05.00	20.11' LT	697.97
AE	89+15.21	21.99' LT	698.42
AF	89+25.35	24.30' LT	698.87
AG	89+35.00	28.21' LT	699.64
AH	89+43.79	33.73' LT	700.42
	STATION IL 78	OFFSET IL 78	PROPOSED EDGE OF PAVEMENT ELEVATION
AI	230+94.58	34.85' LT	701.19
AJ	231+00.78	27.03' LT	701.96
AK	231+08.42	20.59' LT	702.83
AL	231+17.18	15.81' LT	703.98
AM	231+26.72	12.86' LT	704.61
AN	231+36.66	11.86' LT	705.21
AO	231+50.00	10.43' LT	705.96
AP	231+75.00	10.69' LT	707.16

STA 230+42.12 (IL 78)
 STA 90+00
 (PROPOSED E. BETHEL RD)

233+81.49
 29.03' LT

EROSION CONTROL AND ROW DETAILS



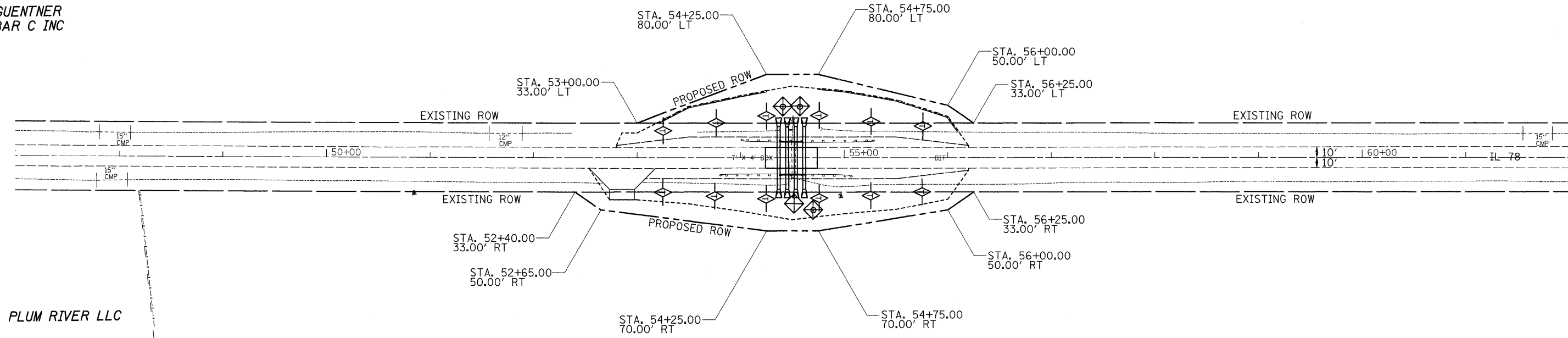
LEGEND	
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	= PERIMETER EROSION BARRIER
	= INLET AND PIPE PROTECTION



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL AND ROW DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = Tue Sep 30 11:15:51 2008	DATE -	CHECKED -	REVISED -			CONTRACT NO. 64D07					
		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

EROSION CONTROL AND ROW DETAILS

GUENTNER
BAR C INC



PLUM RIVER LLC

RALPH GUENTNER

ROGER L. & JENNY B. STODDARD

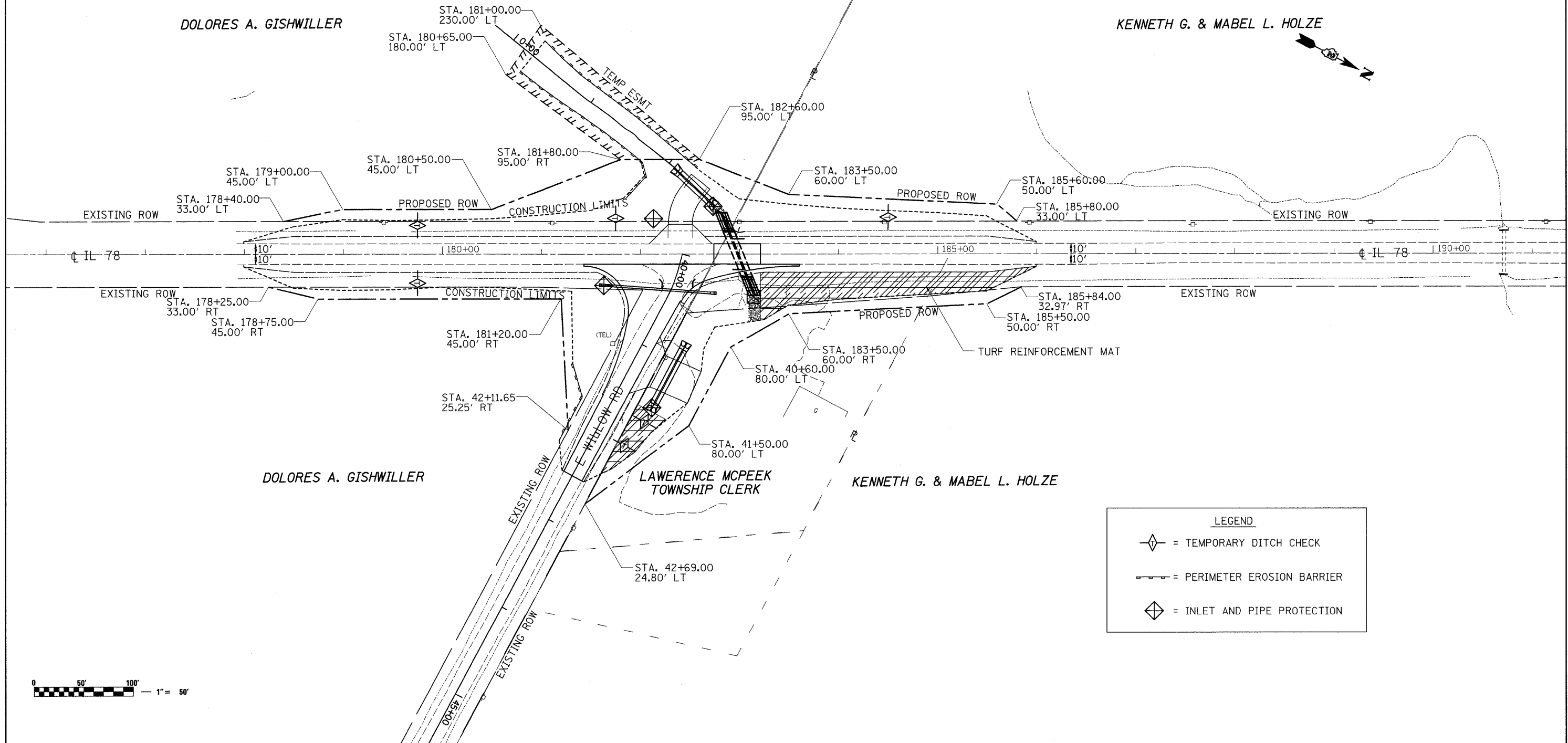
LEGEND

= TEMPORARY DITCH CHECK
 = PERIMETER EROSION BARRIER
 = INLET AND PIPE PROTECTION



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL AND ROW DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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EROSION CONTROL AND ROW DETAILS

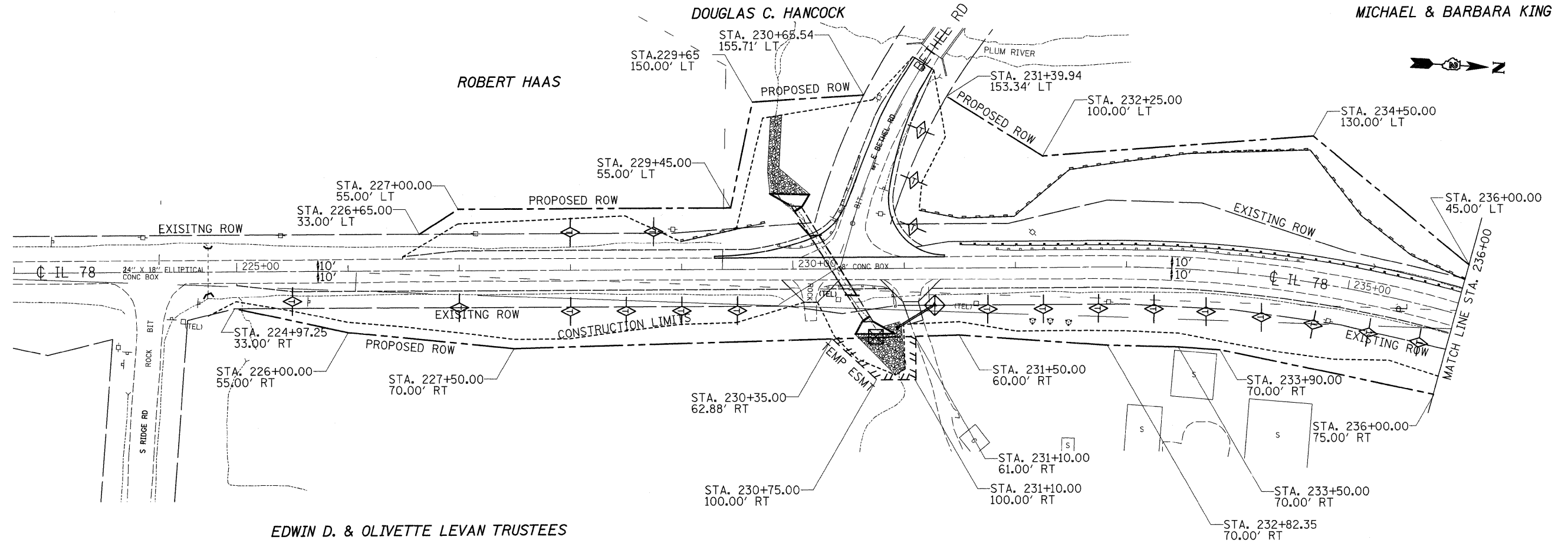


LEGEND	
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	= PERIMETER EROSION BARRIER
	= INLET AND PIPE PROTECTION



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL AND ROW DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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EROSION CONTROL AND ROW DETAILS



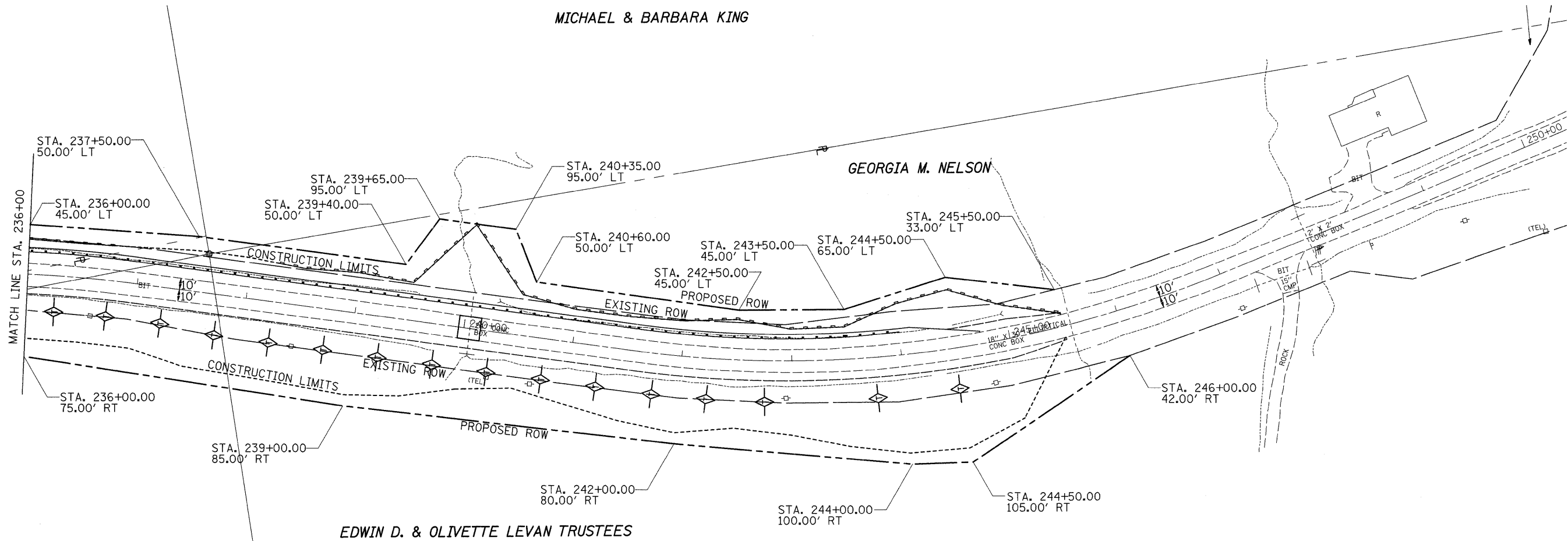
LEGEND

- = TEMPORARY DITCH CHECK
- = PERIMETER EROSION BARRIER
- = INLET AND PIPE PROTECTION



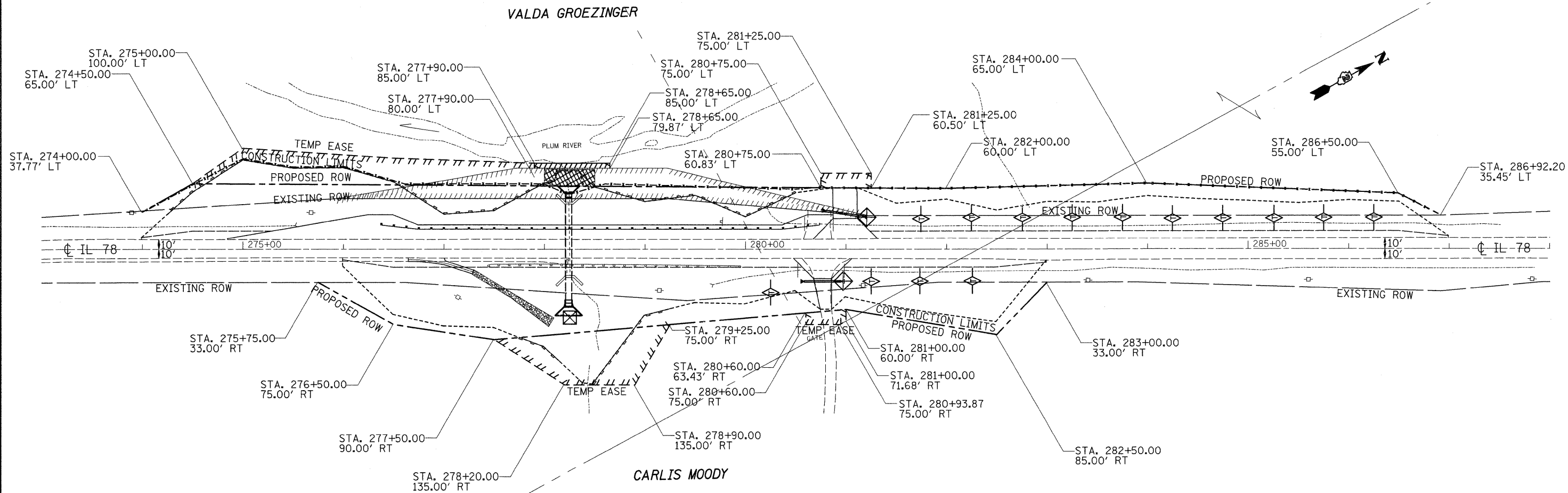
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


EROSION CONTROL AND ROW DETAILS

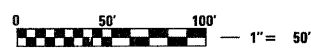


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EROSION CONTROL AND ROW DETAILS

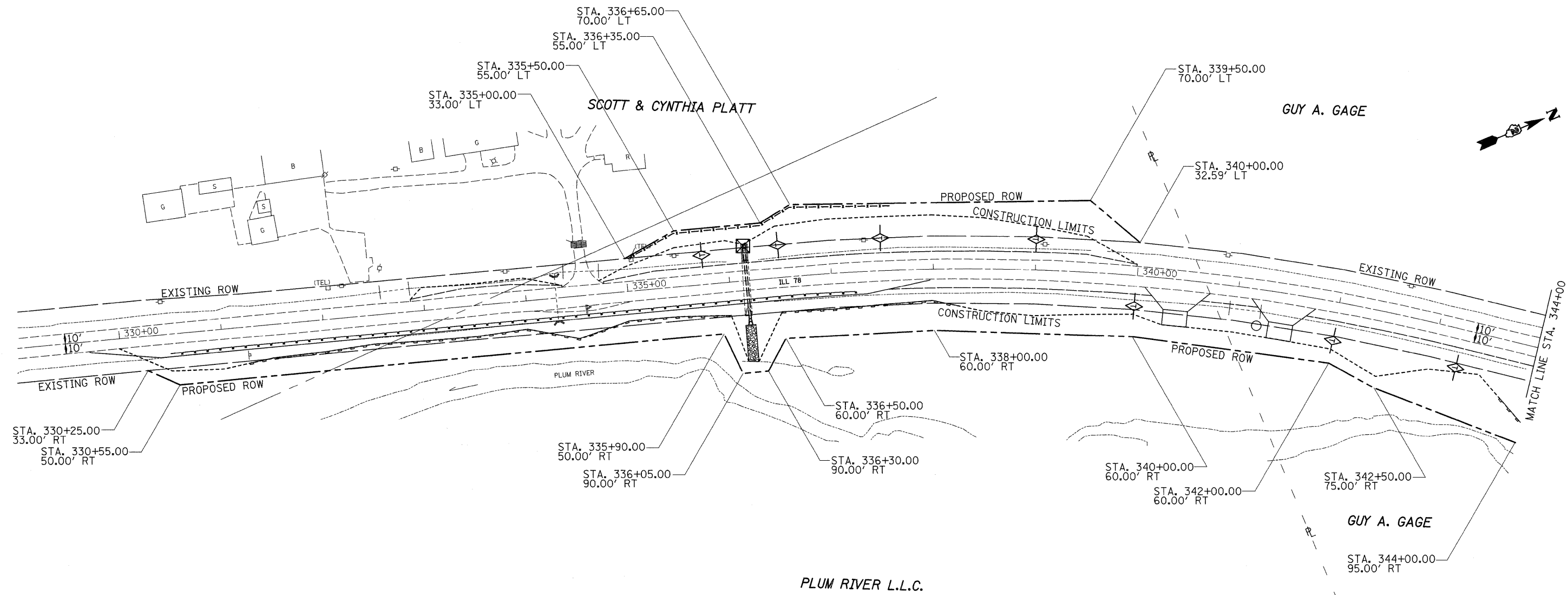


LEGEND	
	= TEMPORARY DITCH CHECK
	= PERIMETER EROSION BARRIER
	= INLET AND PIPE PROTECTION






FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL AND ROW DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		CHECKED -	REVISED -			CONTRACT NO. 64D07					
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EROSION CONTROL AND ROW DETAILS



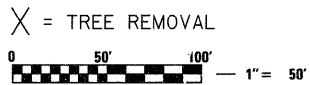
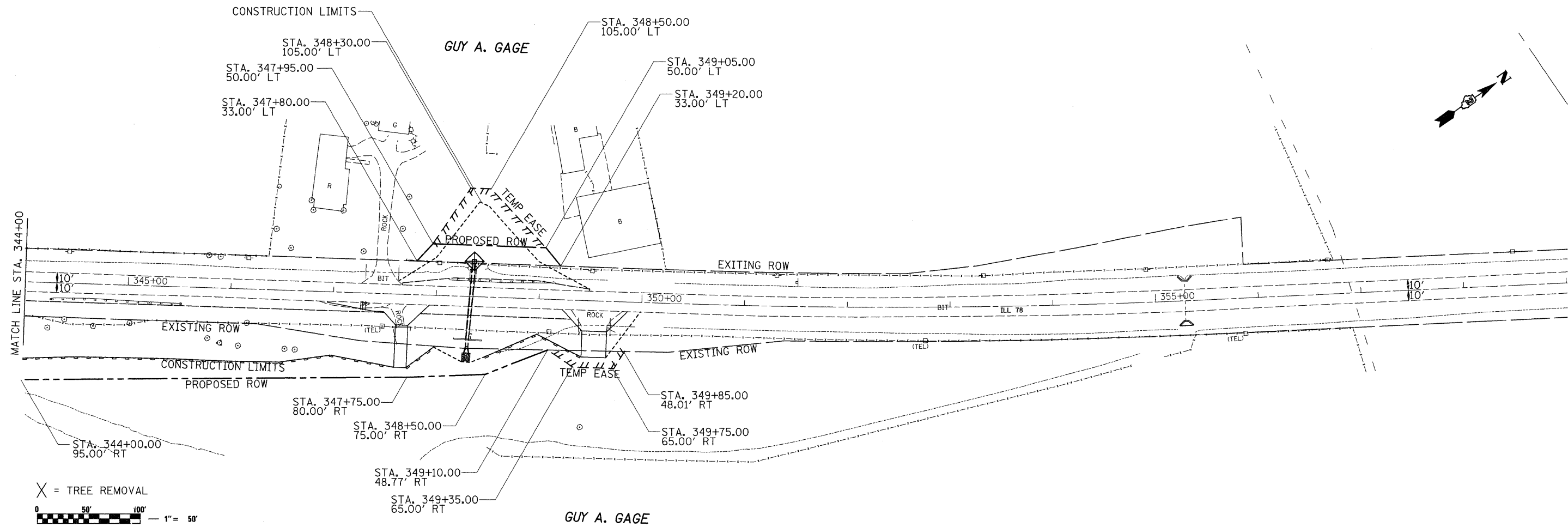
LEGEND

-  = TEMPORARY DITCH CHECK
-  = PERIMETER EROSION BARRIER
-  = INLET AND PIPE PROTECTION



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL AND ROW DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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						SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	

EROSION CONTROL AND ROW DETAILS



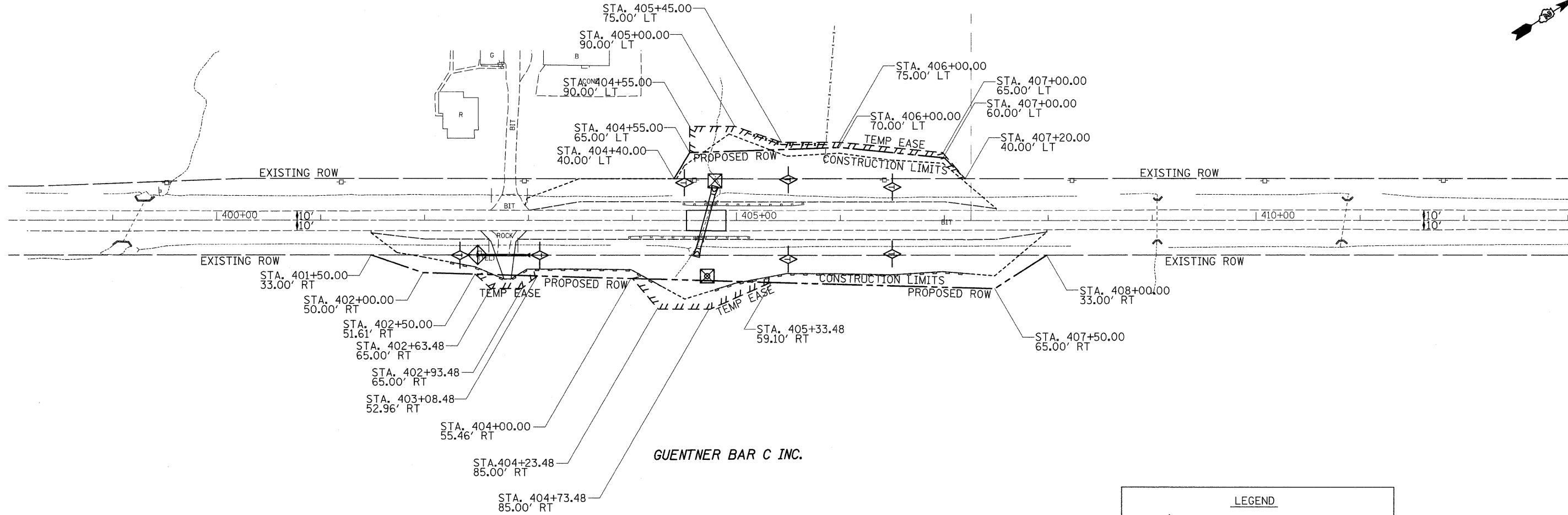
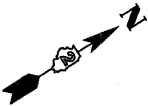
LEGEND	
	= TEMPORARY DITCH CHECK
	= PERIMETER EROSION BARRIER
	= INLET AND PIPE PROTECTION

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL AND ROW DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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					SCALE:	SHEET NO. OF SHEETS		STA. TO STA.			

EROSION CONTROL AND ROW DETAILS

KENNETH B. & DEBRA L.
ANDERSEN

BRADLEY J. & LEESA S.
HATFIELD

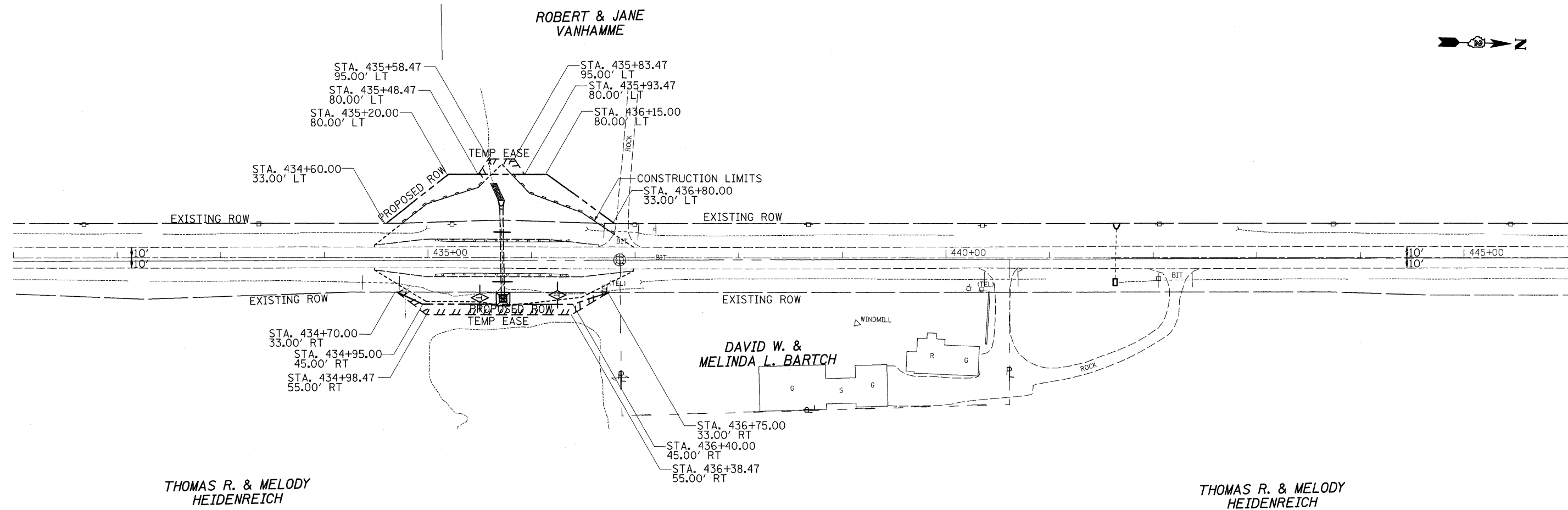


LEGEND	
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	= PERIMETER EROSION BARRIER
	= INLET AND PIPE PROTECTION



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL AND ROW DETAILS	F.A.P RTE. 642	SECTION (10, 11)T	COUNTY JODAVIESS	TOTAL SHEETS 283	SHEET NO. 77		
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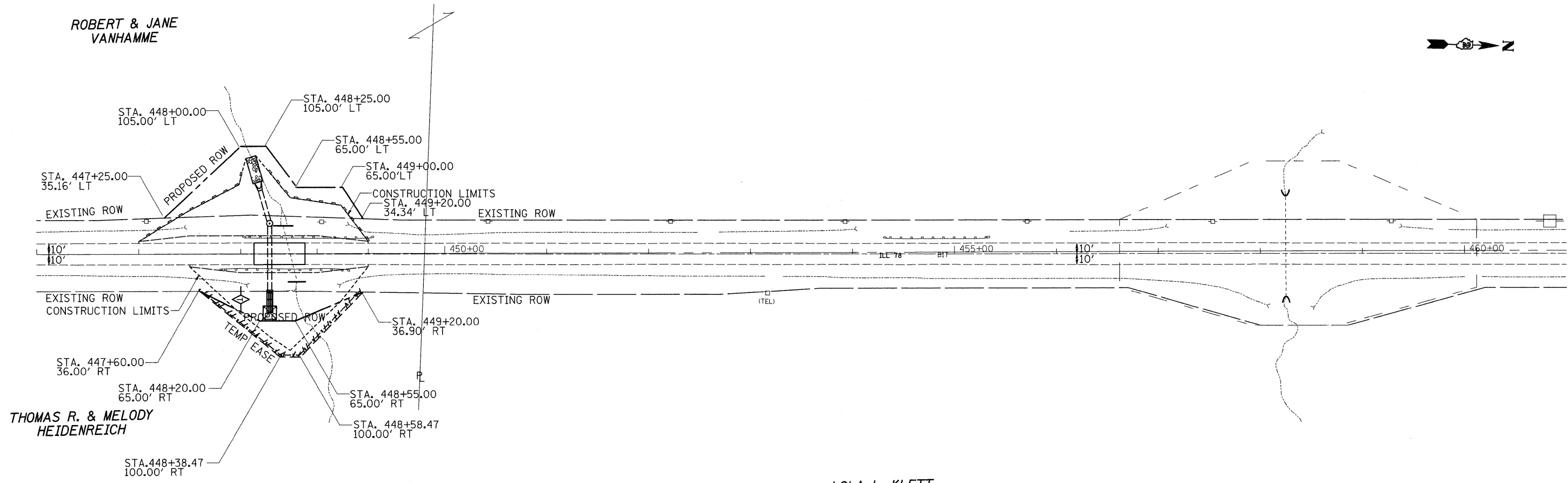
EROSION CONTROL AND ROW DETAILS



LEGEND	
	= TEMPORARY DITCH CHECK
	= PERIMETER EROSION BARRIER
	= INLET AND PIPE PROTECTION

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL AND ROW DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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EROSION CONTROL AND ROW DETAILS

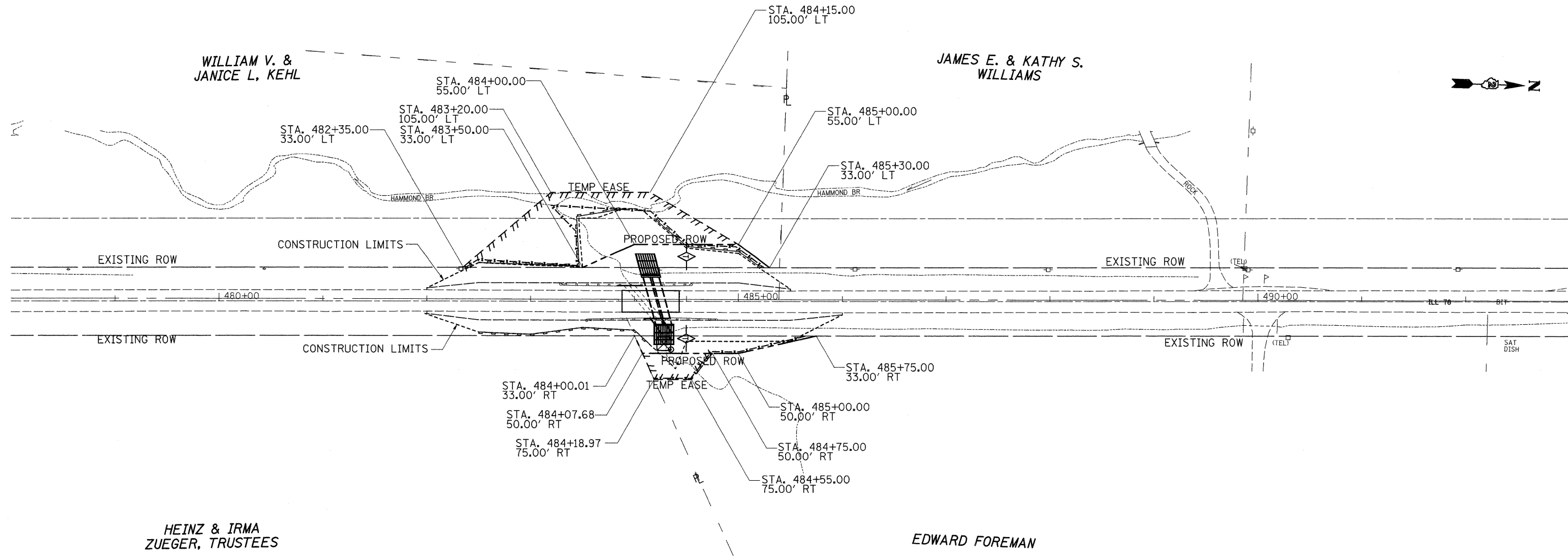


LEGEND

- = TEMPORARY DITCH CHECK
- = PERIMETER EROSION BARRIER
- = INLET AND PIPE PROTECTION

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL AND ROW DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
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EROSION CONTROL AND ROW DETAILS

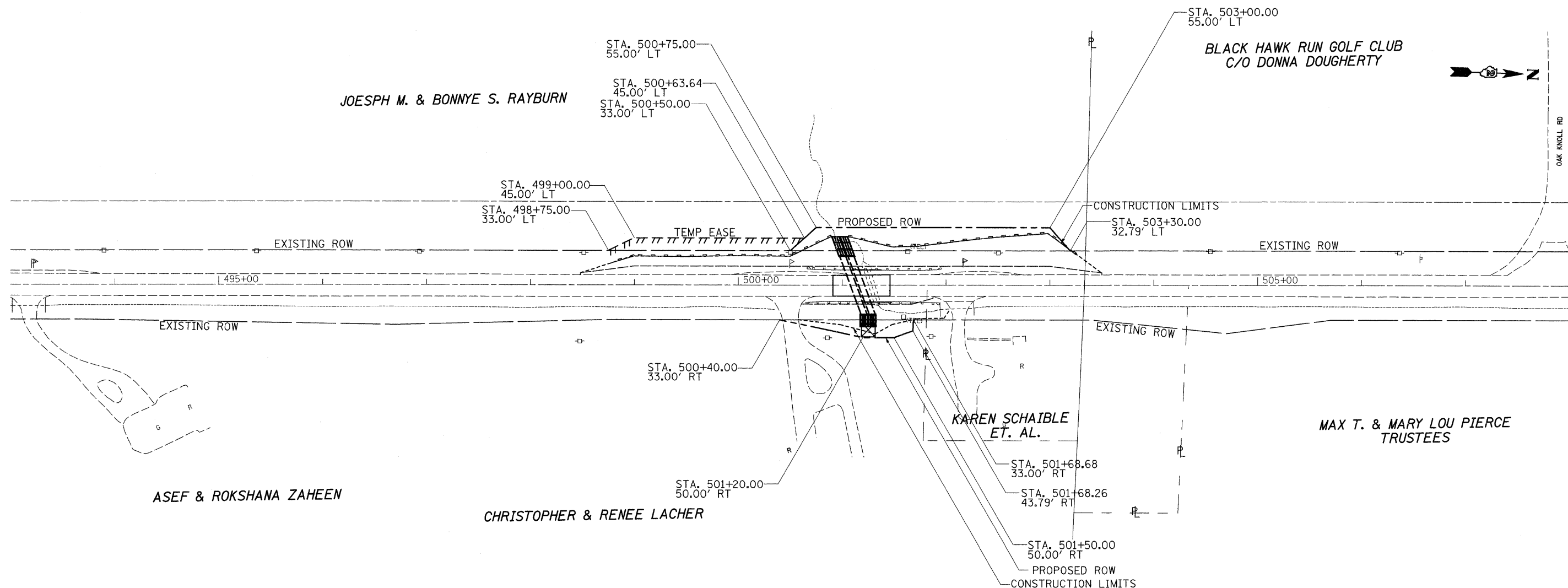


LEGEND	
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	= PERIMETER EROSION BARRIER
	= INLET AND PIPE PROTECTION



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL AND ROW DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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						SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.

EROSION CONTROL AND ROW DETAILS



LEGEND

- = TEMPORARY DITCH CHECK
- = PERIMETER EROSION BARRIER
- = INLET AND PIPE PROTECTION



FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL AND ROW DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = Tue Sep 30 11:15:58 2008		DATE -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

The diameter of this part is equal or larger than the diameter of bar spliced.

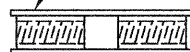
The diameter of this part is the same as the diameter of the bar spliced.

ROLLED THREAD DOWEL BAR



**** ONE PIECE**

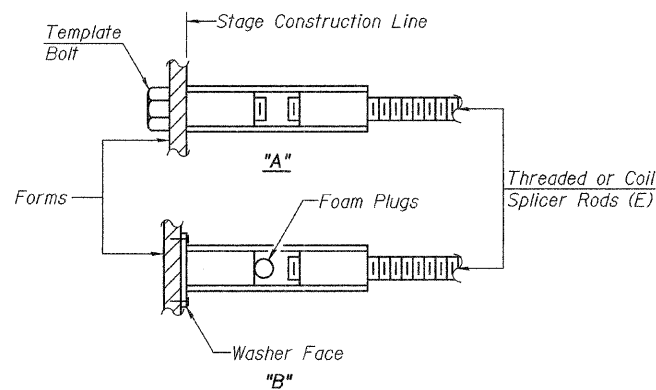
Wire Connector



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

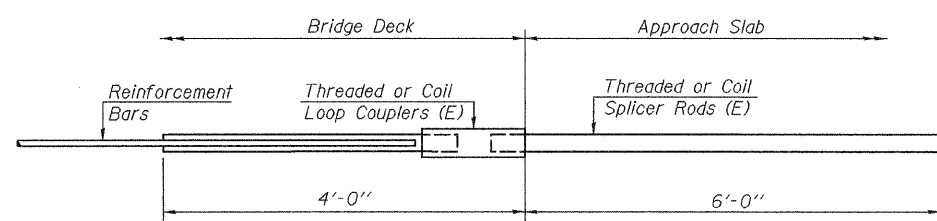
"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

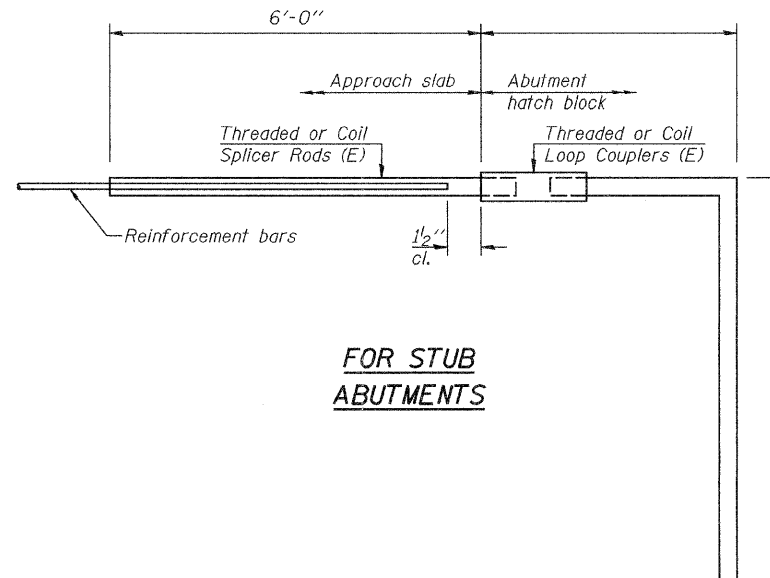
- ① Minimum Capacity = $1.25 \times f_y \times A_t$
 (Tension in kips)
 - ② Minimum *Pull-out Strength = $0.66 \times f_y \times A_t$
 (Tension in kips)
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



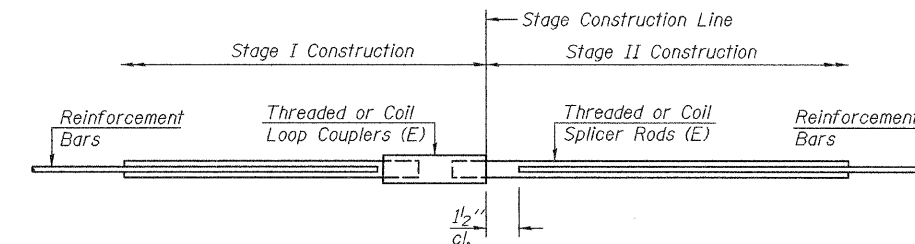
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity = 23.0 kips - tension	
Min. Pull-out Strength = 12.3 kips - tension	
No. Required =	



FOR STUB ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity = 23.0 kips - tension	
Min. Pull-out Strength = 12.3 kips - tension	
No. Required =	



STANDARD

Bar Size	No. Assemblies Required	Location

**BAR SPLICER ASSEMBLY DETAILS
 STRUCTURE NO. 043-1062**

BSD-1

10-1-08

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
#FILEL#		DRAWN -	REVISED -
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -
	PLOT DATE = #DATE#	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CONCRETE BOX CULVERTS - SHEET 1A OF 3

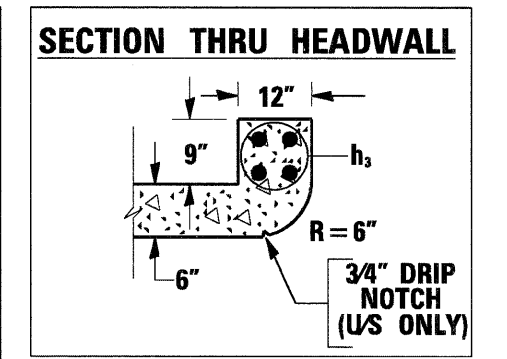
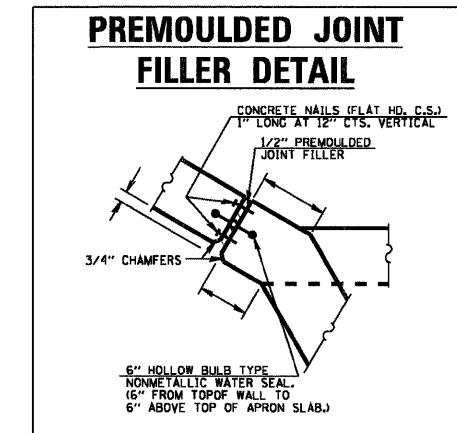
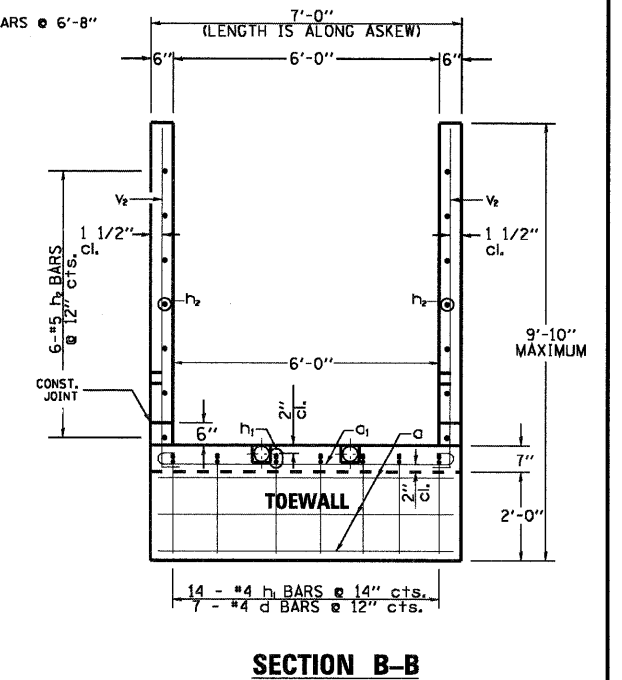
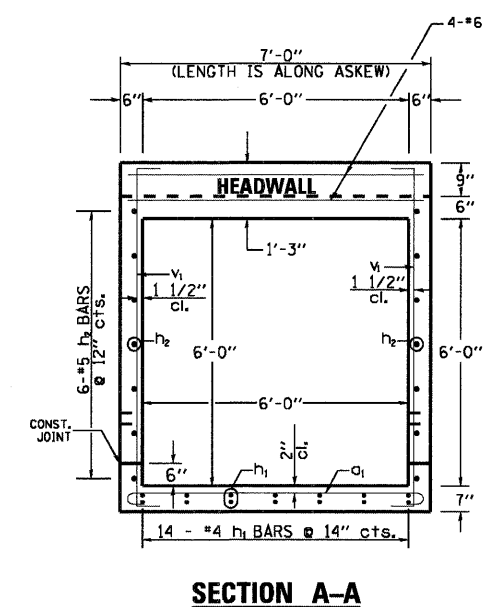
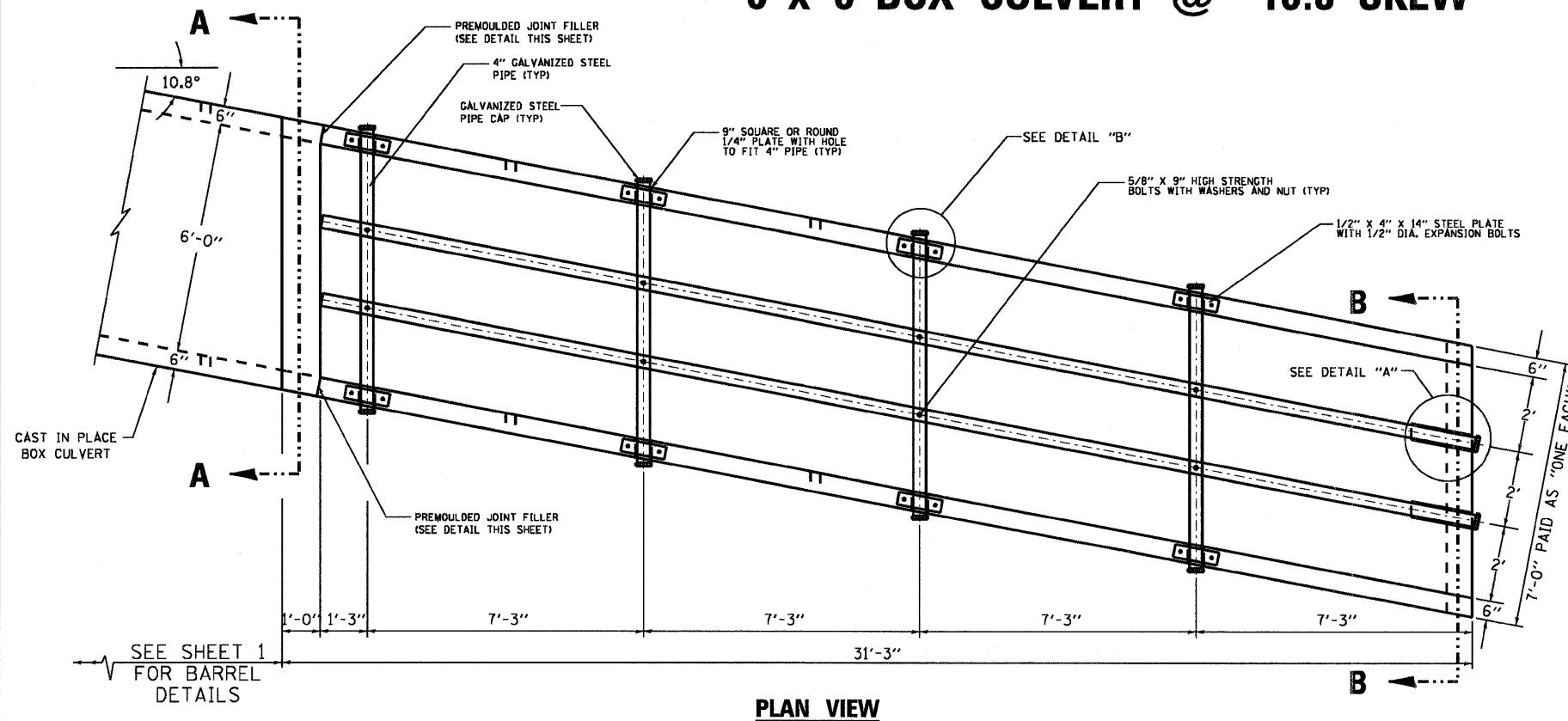
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 642	SECTION (10, 11)T	COUNTY JODAVIESS	TOTAL SHEETS 283	SHEET NO. 82A
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			64D07	

CONCRETE BOX CULVERTS

SN 043-1062 - STA 4+86.61 (IL RTE 78)

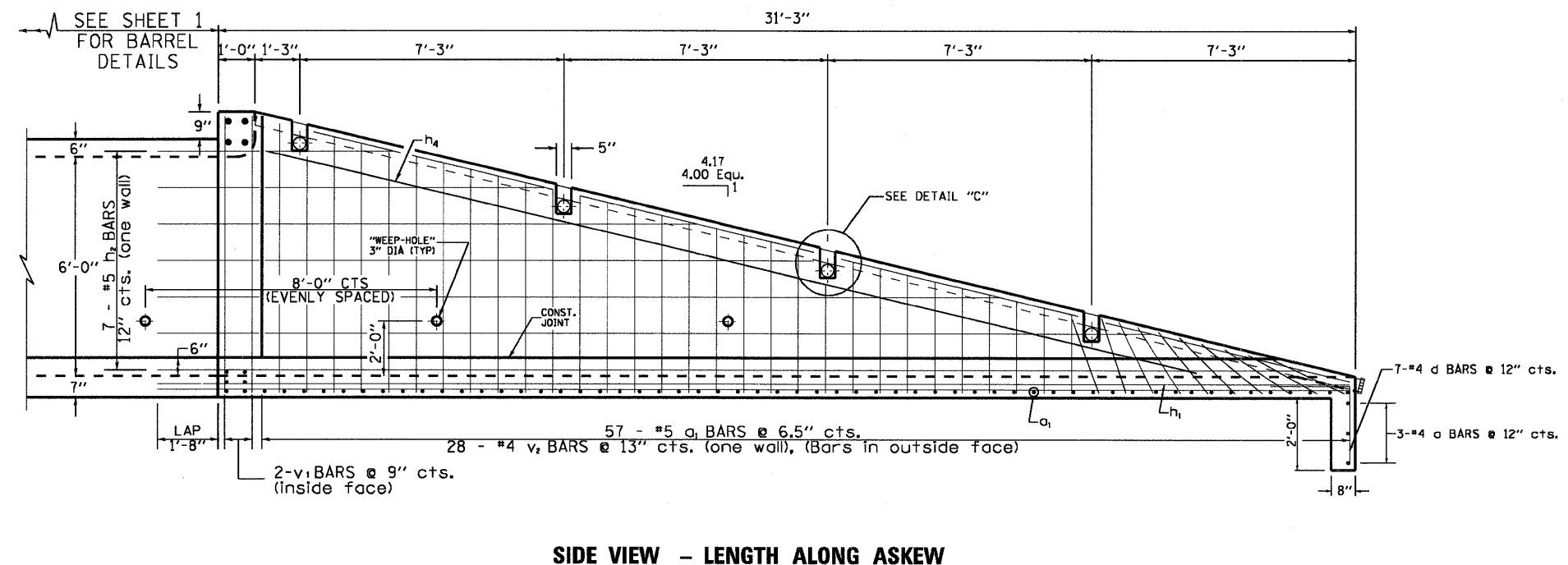
6' x 6' BOX CULVERT @ 10.8° SKEW



DESIGN STRESSES

$f_y = 60,000 \text{ psi}$

$f'_c = 3,500 \text{ psi}$



TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES".



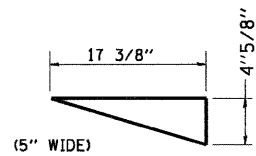
FILE NAME =	USER NAME = #USER#	DESIGNED <i>MGH</i>	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONCRETE BOX CULVERTS - SHEET 2 OF 3	F.A.P. RTE. 642	SECTION (10, 1)T	COUNTY JODAVIESS	TOTAL SHEETS 283	SHEET NO. 83		
		DRAWN <i>WJH</i>	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 64D07		
		CHECKED <i>RGD</i>	REVISED -									
		DATE <i>9/26/2008</i>	REVISED -									

CONCRETE BOX CULVERTS

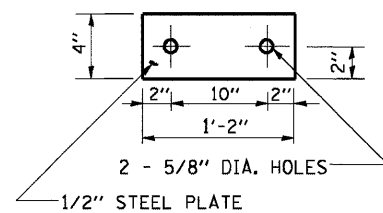
SN 043-1062 - STA 4+86.61 (IL RTE 78)

6' x 6' BOX CULVERT @ 10.8° SKEW

DETAIL "A"



DETAIL "B"



**** BILL OF MATERIALS**
(ONE END SECTION)
(FOR INFORMATION ONLY)

BAR	SIZE	NO.	LENGTH	SHAPE
a	#4	3	6'-8"	—
a ₁	#5	57	7'-10"	U
d	#4	7	4'-4"	L
h ₁	#4	14	33'-4"	—
h ₂	#5	6	38'-7"	—
h ₃	#6	4	6'-8"	—
h ₄	#4	2	25'-0"	—
v ₁	#4	4	9'-9"	U
v ₂	#4	28	12'-0"	U
DESCRIPTION			UNIT	QTY
CONCRETE BOX CULVERTS			CU YD	9.8
REINFORCEMENT BARS			LB	1420

GENERAL NOTES:

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER "CU YD" FOR **CONCRETE BOX CULVERTS**. THIS WORK SHALL INCLUDE THE EXPANSION BOLTS, GALVANIZED PIPE, STEEL PLATES, & CAPS, CLASS SI CONCRETE, REINFORCEMENT BARS, BOLTS, NUTS, WASHERS, PIPE GRATING, EARTH EXCAVATION WHERE REQUIRED, AND ANY NECESSARY GRADING TO FIT EXTENSION AS SHOWN IN THE CROSS SECTIONS OR TO SLOPE.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. EXPOSED EDGES SHALL BE BEVELED 3/4 ".

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR. 60 (IL MODIFIED).

SLOPE FLOW LINE FOR END SECTION IS THE SAME RATE AS THE FLOW LINE OF THE BOX CULVERT.

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120. CONTRACTOR SHALL FIELD VERIFY PIPE LENGTH.

STEEL PLATES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION.

SEE CROSS SECTION SHEET FOR MORE INFORMATION INCLUDING INVERT ELEVATION.

CLEAR COVER INDICATED IS MINIMUM.

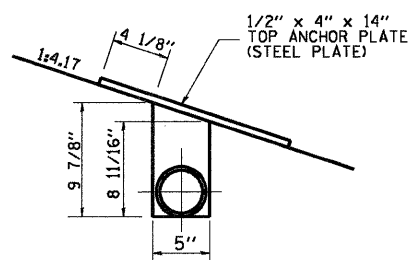
CLEAR COVER SHALL NOT EXCEED MINIMUM BY MORE THAN 1/2 ".

GRATING DESIGN CONFORMS TO AASHTO ROADSIDE DESIGN GUIDE ART. 3.4.2.1.

**** BILL OF MATERIALS**
(ONE END SECTION)
(FOR INFORMATION ONLY)

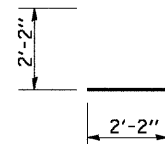
DESCRIPTION	UNIT	QTY.
4" GALVANIZED STEEL PIPE	FOOT	4 @ 7'-6.25"
	FOOT	2 @ 31'-3"
4" GALV PIPE CAPS	EACH	12
1/4" GALV. STEEL PLATE (9" NOMINAL)	EACH	8
1/2" x 4" x 14" GALV. STEEL PLATE	EACH	8
5/8" x 9" GALV. STEEL BOLTS	EACH	8
EXPANSION BOLTS 1/2"Ø	EACH	16

** INFORMATION INCLUDED IS FOR ONE END SECTION (TWO ARE REQUIRED) AND DOES NOT INCLUDE QUANTITIES FOR BARREL SECTIONS. SEE SHEET 1 FOR BARREL SECTION QUANTITIES.

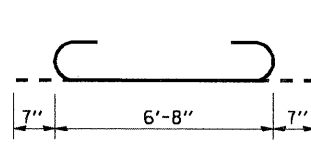


DETAIL "C"

#4 d BAR TOEWALL

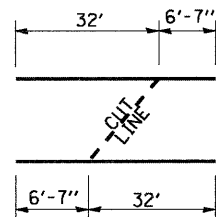


#5 a₁ BAR SLAB

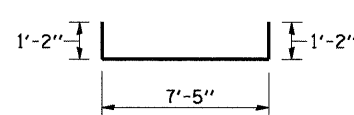


#5 h₂ BAR WINGWALLS

Cut Diagram (7 Req'd)

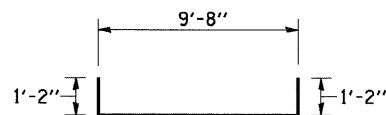
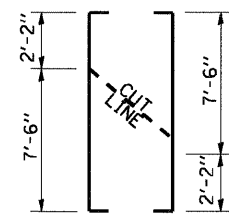


#4 v₁ BAR WINGWALLS



#4 v₂ BAR WINGWALLS

Cut Diagram (28 Req'd)



2 - #4 v₂ BAR (CUT VARIES)

CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 72"

SN 043-1064 - LT STA 278+24.12 (IL RTE 78)

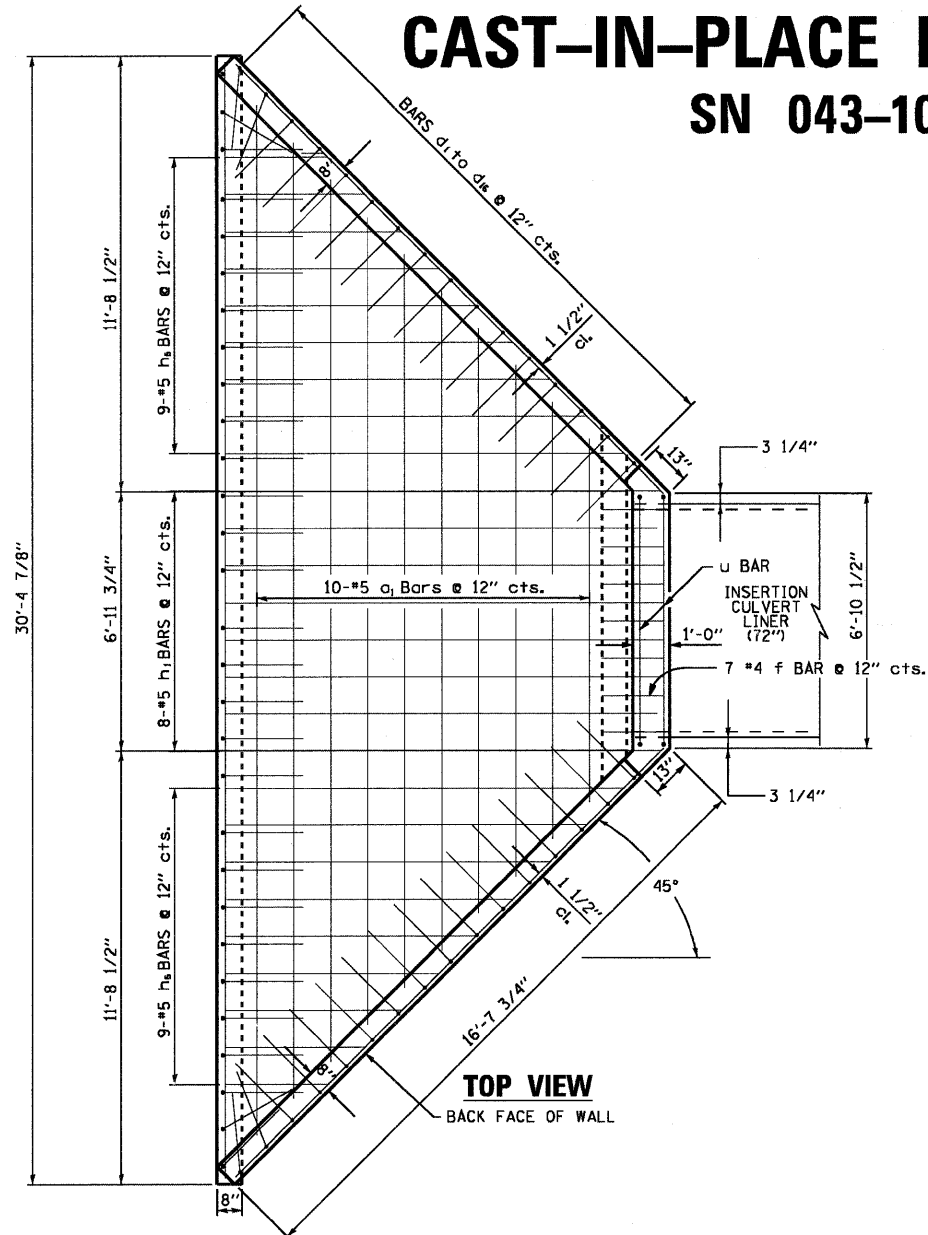
NOTES:
GRATING SHOWN ON THIS SHEET IS INTENDED TO DISCOURAGE THE PASSAGE OF LIVESTOCK.

INSERTION CULVERT LINER SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SECTION 543. RPM-D3262 SHALL BE UTILIZED.

DESIGN STRESSES

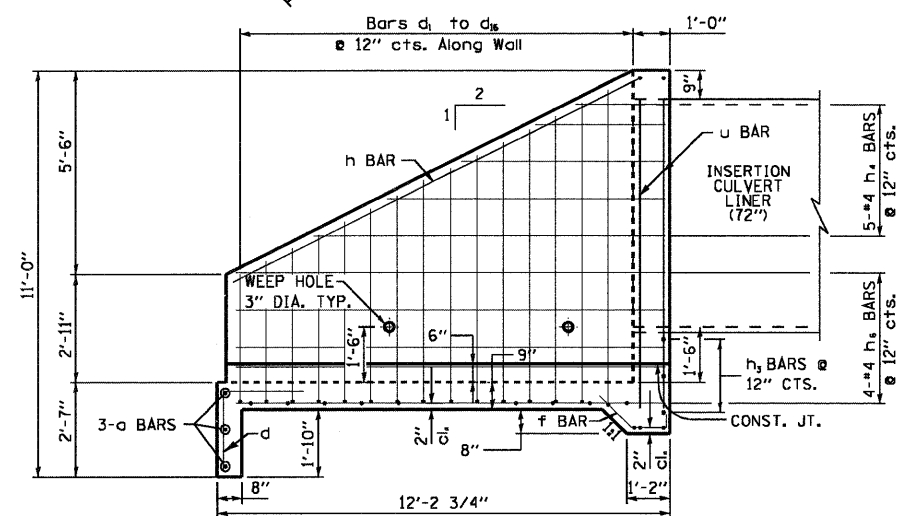
$f_y = 60,000 \text{ psi}$

$f'_c = 3,500 \text{ psi}$

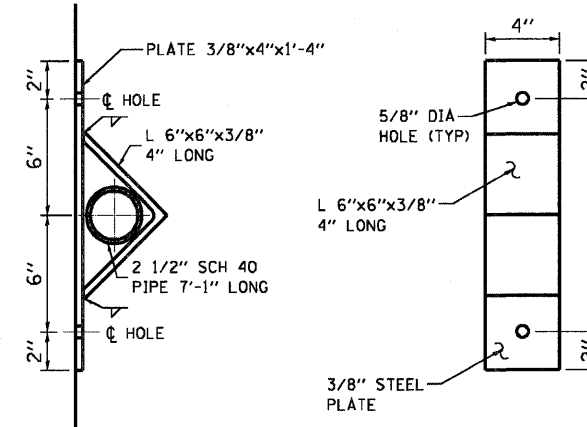


TOP VIEW

BACK FACE OF WALL



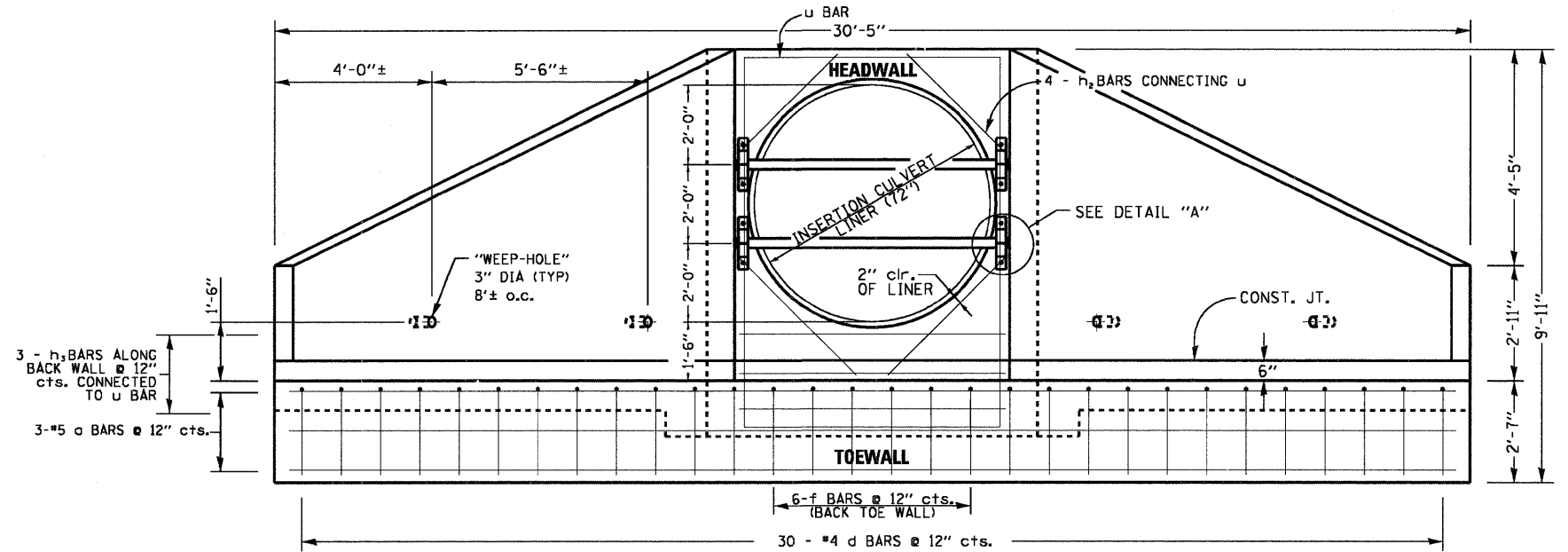
SIDE VIEW



DETAIL "A"

ANCHOR PLATE

PROVIDE 2" CLEAR COVER FOR REINFORCING BARS IN APRON SLAB, 1 1/2" CLEAR COVER FOR REINFORCING BARS IN WALLS. ALL WALL REINFORCEMENT SHALL BE PLACED IN THE BACK FACE.



FRONT VIEW

TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES".



FILE NAME =	USER NAME = #USER#	DESIGNED MGH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS-72" SHEET 1 OF 2	F.A.P. RTE. 642	SECTION (10, 11)T	COUNTY JODAVIESS	TOTAL SHEETS 283	SHEET NO. 85		
	PLOT SCALE = 1:50	DRAWN WJH	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 64D07		
	PLOT DATE = #DATE#	CHECKED RGD	REVISED -									
		DATE 9/26/2008	REVISED -									

CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 72"

SN 043-1064 - LT STA 278+24.12 (IL RTE 78)

BILL OF MATERIALS (LEFT END SECTION)
(FOR INFORMATION ONLY)

BAR	NO.	SIZE	LENGTH	SPACING	SHAPE
a	3	# 5	30'-1"	12" cts.	—
a ₁	5	# 5	36'-6"	12" cts.	⌊
d	30	# 4	4'-4"	12" cts.	┘
d ₁	2	# 4	5'-7"	12" cts.	┘
d ₂	2	# 4	5'-11"	12" cts.	┘
d ₃	2	# 4	6'-3"	12" cts.	┘
d ₄	2	# 4	6'-7"	12" cts.	┘
d ₅	2	# 4	6'-11"	12" cts.	┘
d ₆	2	# 4	7'-3"	12" cts.	┘
d ₇	2	# 4	7'-7"	12" cts.	┘
d ₈	2	# 4	7'-11"	12" cts.	┘
d ₉	2	# 4	8'-3"	12" cts.	┘
d ₁₀	2	# 4	8'-7"	12" cts.	┘
d ₁₁	2	# 4	8'-11"	12" cts.	┘
d ₁₂	2	# 4	9'-3"	12" cts.	┘
d ₁₃	2	# 4	9'-7"	12" cts.	┘
d ₁₄	2	# 4	9'-11"	12" cts.	┘
d ₁₅	2	# 4	10'-2"	12" cts.	┘
d ₁₆	2	# 4	10'-7"	12" cts.	┘
f	7	# 4	3'-6"	12" cts.	┘
h	2	# 4	18'-3"	----	—
h ₁	8	# 5	11'-10"	12" cts.	—
h ₂	4	# 4	3'-0"	----	—
h ₃	3	# 4	6'-6"	12" cts.	—
h ₄	4	# 4	18'-6"	12" cts.	—
h ₅	9	# 5	16'-3"	12" cts.	—
h ₆	8	# 4	16'-3"	12" cts.	—
u	4	# 6	18'-0"	----	⌊
DESCRIPTION			UNIT	QTY	
CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS			CU YD	13.2	
REINFORCEMENT BARS			POUND	1105	
2 1/2" GALV. STEEL PIPE			FOOT	2 @ 7'-1"	
2 1/2" GALV PIPE CAPS			EACH	4 @ 4"	
L 6"x6"x3/8" GALV. STEEL ANGLE			EACH	4	
3/8"x4"x16" GALV. STEEL PLATE			EACH	4	
5/8" x 9" GALV. STEEL BOLTS			EACH	8	

BAR a₁
BOTTOM OF APRON
Cut Diagram

5 REQUIRED

#5 h_s BARS
SLAB
ALL SPACING 12" cts.
Cut Diagram

9 REQUIRED

#4 d_x BARS
WINGWALLS
ALL SPACING 12" cts.

d _x	z	LENGTH
d ₁	2'-2"	4'-4"
d ₂	3'-5"	5'-7"
d ₃	3'-9"	5'-11"
d ₄	4'-1"	6'-3"
d ₅	4'-5"	6'-7"
d ₆	4'-9"	6'-11"
d ₇	5'-1"	7'-3"
d ₈	5'-5"	7'-7"
d ₉	5'-9"	7'-11"
d ₁₀	6'-1"	8'-3"
d ₁₁	6'-5"	8'-7"
d ₁₂	6'-9"	8'-11"
d ₁₃	7'-1"	9'-3"
d ₁₄	7'-5"	9'-7"
d ₁₅	7'-9"	9'-11"
d ₁₆	8'-0"	10'-2"
d ₁₆	8'-5"	10'-7"

#4 h₄ BARS
WINGWALLS
ALL SPACING 12" cts.
Cut Diagram

4 REQUIRED

#6 u BAR
HEADWALL

#4 f BAR
FRONTWALL
ALL SPACING 12" cts.

GENERAL NOTES:

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER "EACH" FOR **CAST-IN-PLACE RC END SECTIONS 72"**. THIS WORK SHALL INCLUDE THE GALVANIZED PIPE, STEEL PLATES, STEEL ANGLES, & CAPS, CLASS SI CONCRETE, REINFORCEMENT BARS, BOLTS, NUTS, WASHERS, PIPE GRATING, INSTALLATION ON THE PROPOSED CULVERT, EARTH EXCAVATION AND DIVERTING WATER WHERE REQUIRED, AND ANY NECESSARY GRADING TO FIT THE END SECTION, AS SHOWN IN THE CROSS SECTIONS OR TO SLOPE.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. EXPOSED EDGES SHALL BE BEVELED 3/4 ".

SLOPE FLOW LINE FOR END SECTION IS THE SAME RATE AS THE FLOW LINE OF THE BOX CULVERT.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR. 60 (IL MODIFIED).

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

STEEL PIPES SHALL CONFORM TO ASTM A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO ASTM A-120. CONTRACTOR SHALL FIELD VERIFY PIPE LENGTH.

STEEL PLATES AND ANGLES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION.

SEE CROSS SECTION SHEET FOR MORE INFORMATION AND INVERT ELEVATIONS.

THE RIGHT END SECTION FOR STA. 278+24.12 SHALL CONFORM TO IDOT HIGHWAY STANDARD 542111-02. SEE ROADWAY PLAN FOR ADDITIONAL INFORMATION.

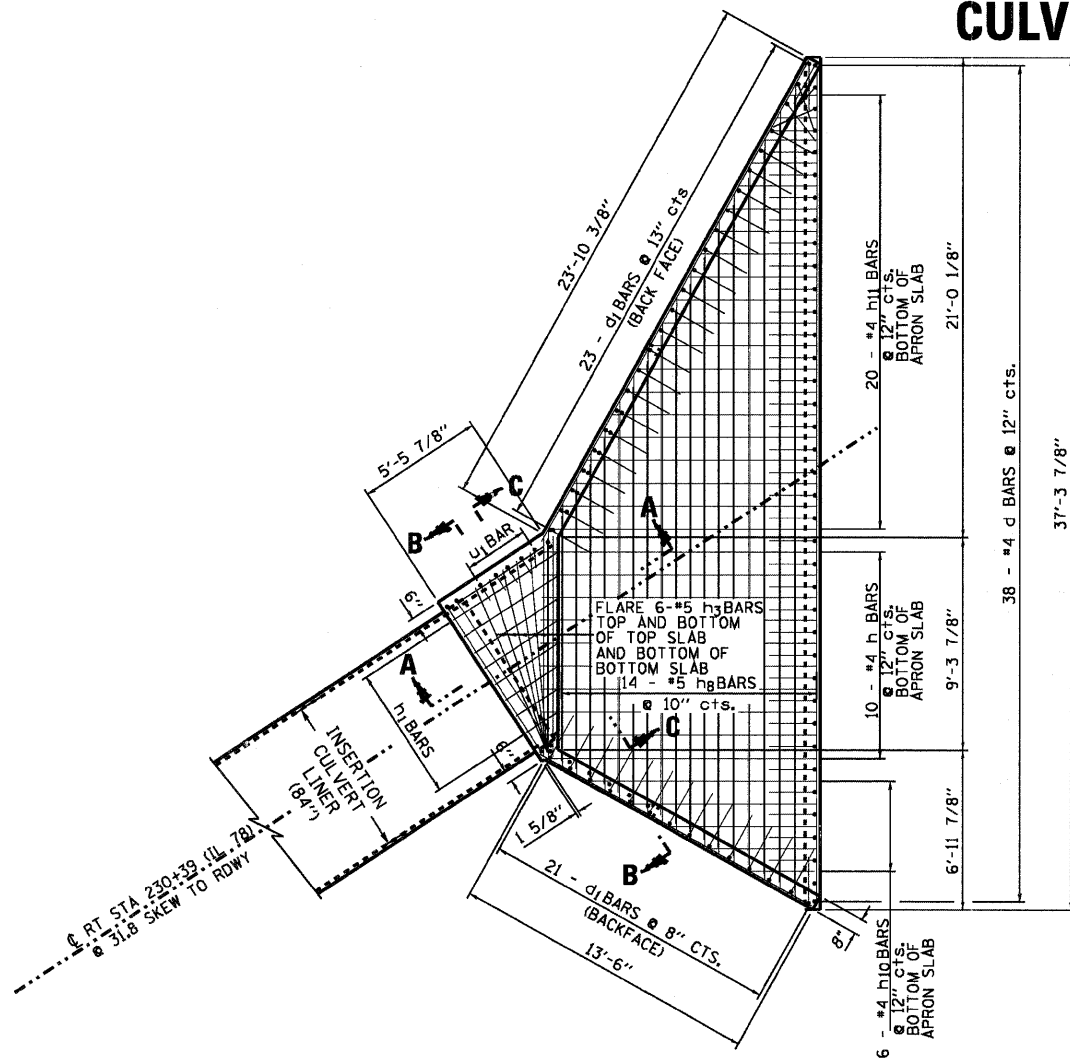
MINIMUM BAR LAP
LOCATION: END SECTION

SIZE	LAP	WT, LB/FT
# 4	1' - 4"	0.668
# 5	1' - 8"	1.043
# 6	2' - 0"	1.502

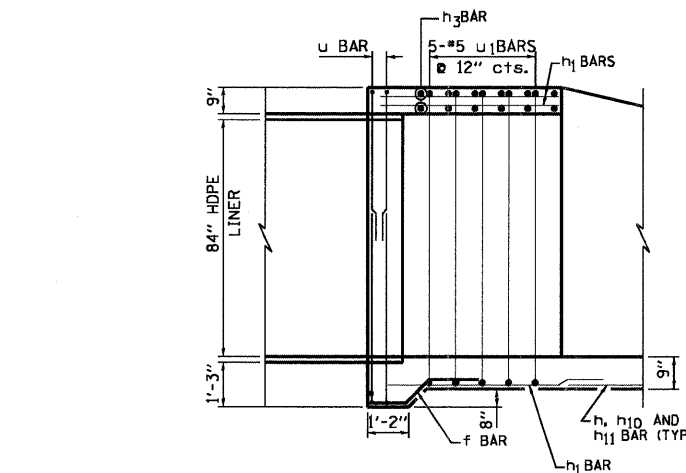
CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS - 84"

SN 043-1078 - LT AND RT STA 230+39

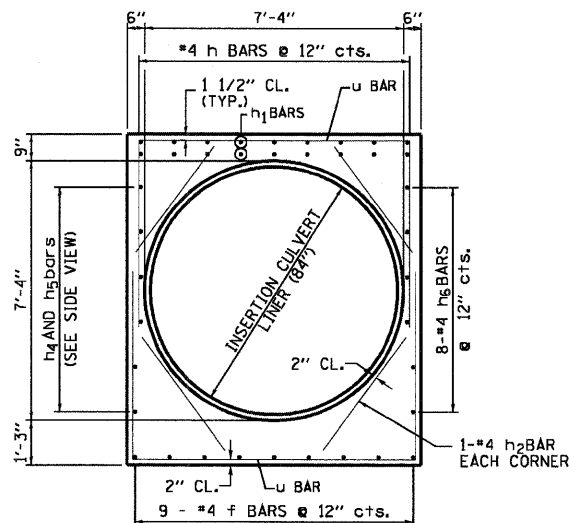
CULVERT @ 31.8° SKEW TO RDWY



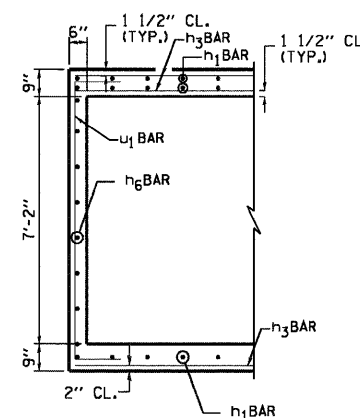
TOP VIEW



SECTION A-A

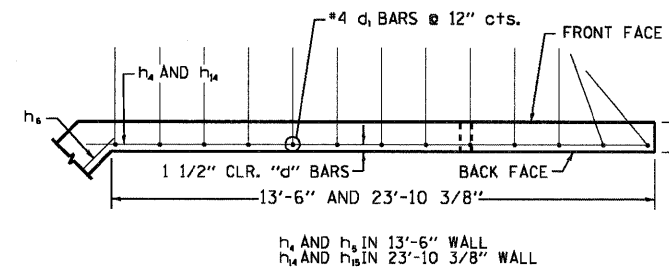


SECTION B-B



SECTION C-C

SECTION D-D (WING WALL)



DESIGN STRESSES

$f_y = 60,000 \text{ psi}$

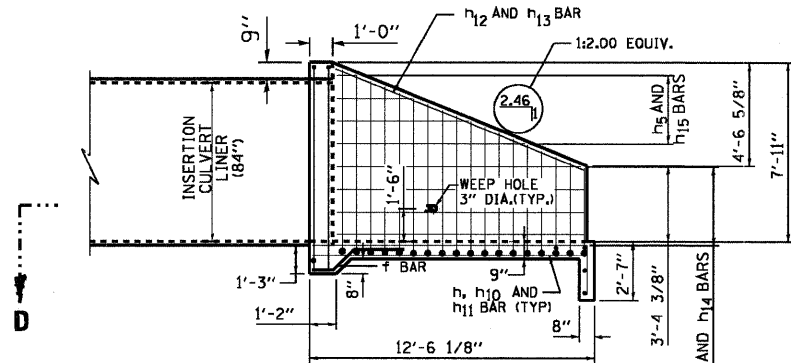
$f'_c = 3,500 \text{ psi}$

NOTES:
CLEAR COVER FOR WALLS SHALL BE 1 1/2".

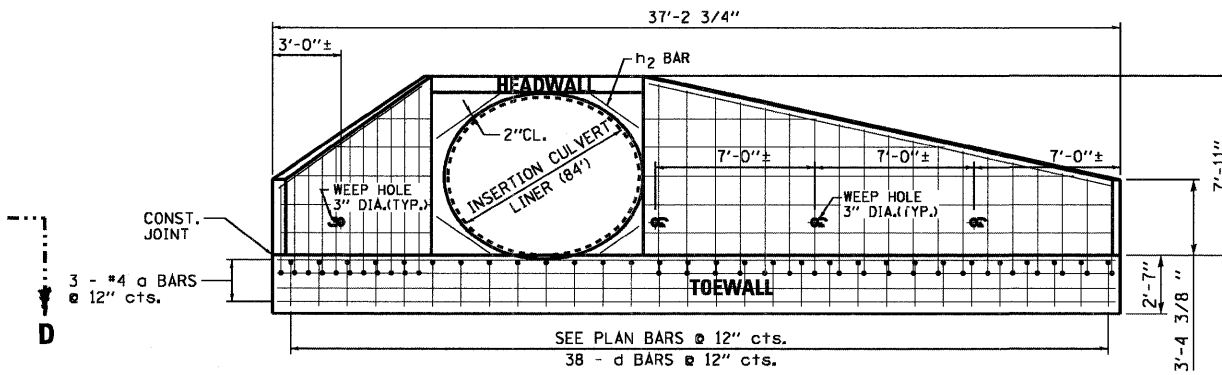
CLEAR COVER FOR APRON SLAB SHALL BE 2".

"d" BARS SHALL BE PLACED WITH 1 1/2" CLEAR COVER TO OUTSIDE FACE OF WALL.

INSERTION CULVERT LINER SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SECTION 543. RPM-D3262 SHALL BE UTILIZED.



SIDE VIEW



FRONT VIEW-ASKEW

TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES".



FILE NAME =	USER NAME = #USER#	DESIGNED MGH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS - 84" SHEET 1 OF 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN WJH	REVISED -			642	(10, 11)T	JODAVIESS	283	87	
PLOT SCALE = 1:50		CHECKED RGD	REVISED -			CONTRACT NO. 64007					
PLOT DATE = #DATE#		DATE 9/26/2008	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS – 84"

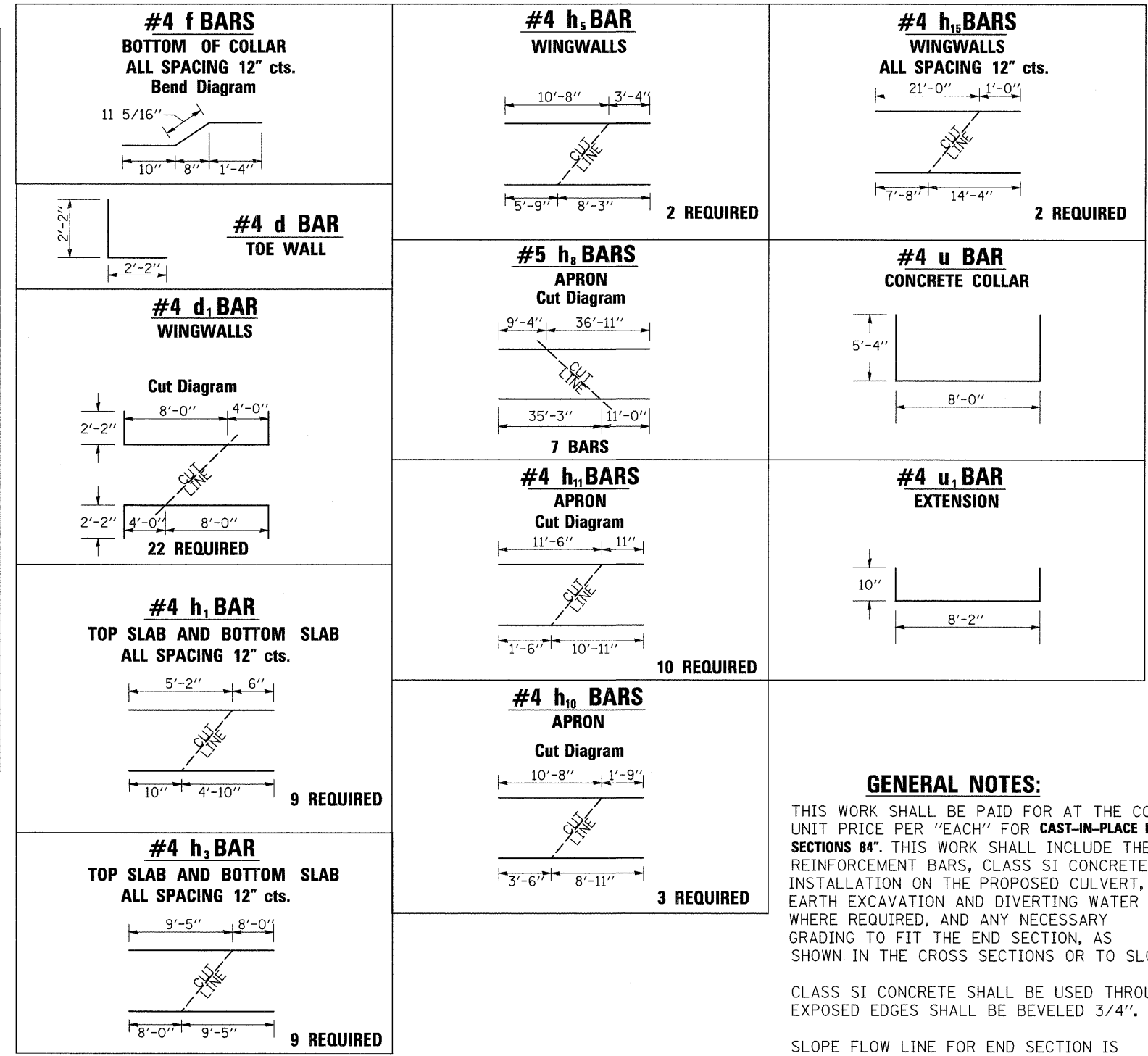
SN 043-1078 – LT AND RT STA 230+39 PR SIDE TAPERED IMPROVED INLET (IL RTE 78)

BILL OF MATERIALS (FOR INFORMATION ONLY)*

BAR	NO.	SIZE	LENGTH	SPACING	SHAPE
a	3	# 4	36'-10"	12" cts.	—————
d	38	# 4	4'-4"	12" cts.	L
d ₁	22	# 4	16'-4"	13", 8" cts.	J
f	9	# 4	2'-10"	12" cts.	———/———
h	10	# 4	12'-2"	12" cts.	—————
h ₁	9	# 4	5'-8"	12" cts.	—————
h ₂	4	# 4	3'-0"	---	—————
h ₃	9	# 4	17'-5"	---	—————
h ₄	4	# 4	13'-2"	---	—————
h ₅	2	# 4	14'-0"	---	—————
h ₆	8	# 4	5'-2"	12" cts.	—————
h ₈	7	# 5	46'-3"	12" cts.	—————
h ₁₀	3	# 4	12'-5"	12" cts.	—————
h ₁₁	10	# 4	12'-5"	12" cts.	—————
h ₁₂	1	# 5	13'-10"	---	—————
h ₁₃	1	# 5	23'-11"	---	—————
h ₁₄	6	# 4	23'-6"	12" cts.	—————
h ₁₅	2	# 4	22'-0"	12" cts.	—————
u	4	# 4	18'-8"	---	—————
u ₁	5	# 4	9'-10"	12" cts.	—————

DESCRIPTION	UNIT	QTY
CAST IN PLACE REINFORCED CONCRETE END SECTIONS	CU YD	18.2
REINFORCEMENT BARS	POUND	1440

* QUANTITIES SHOWN FOR ONE (1) CAST-IN-PLACE REINFORCED CONCRETE END SECTION 84". TWO ARE REQUIRED.



MINIMUM BAR LAP LOCATION: END SECTION

SIZE	LAP
# 4	1' - 4"
# 5	1' - 8"
# 6	2' - 0"

GENERAL NOTES:

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER "EACH" FOR **CAST-IN-PLACE RC END SECTIONS 84"**. THIS WORK SHALL INCLUDE THE REINFORCEMENT BARS, CLASS SI CONCRETE, INSTALLATION ON THE PROPOSED CULVERT, EARTH EXCAVATION AND DIVERTING WATER WHERE REQUIRED, AND ANY NECESSARY GRADING TO FIT THE END SECTION, AS SHOWN IN THE CROSS SECTIONS OR TO SLOPE.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. EXPOSED EDGES SHALL BE BEVELED 3/4".

SLOPE FLOW LINE FOR END SECTION IS THE SAME RATE AS THE FLOW LINE OF THE BOX CULVERT.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR. 60 (IL MODIFIED).

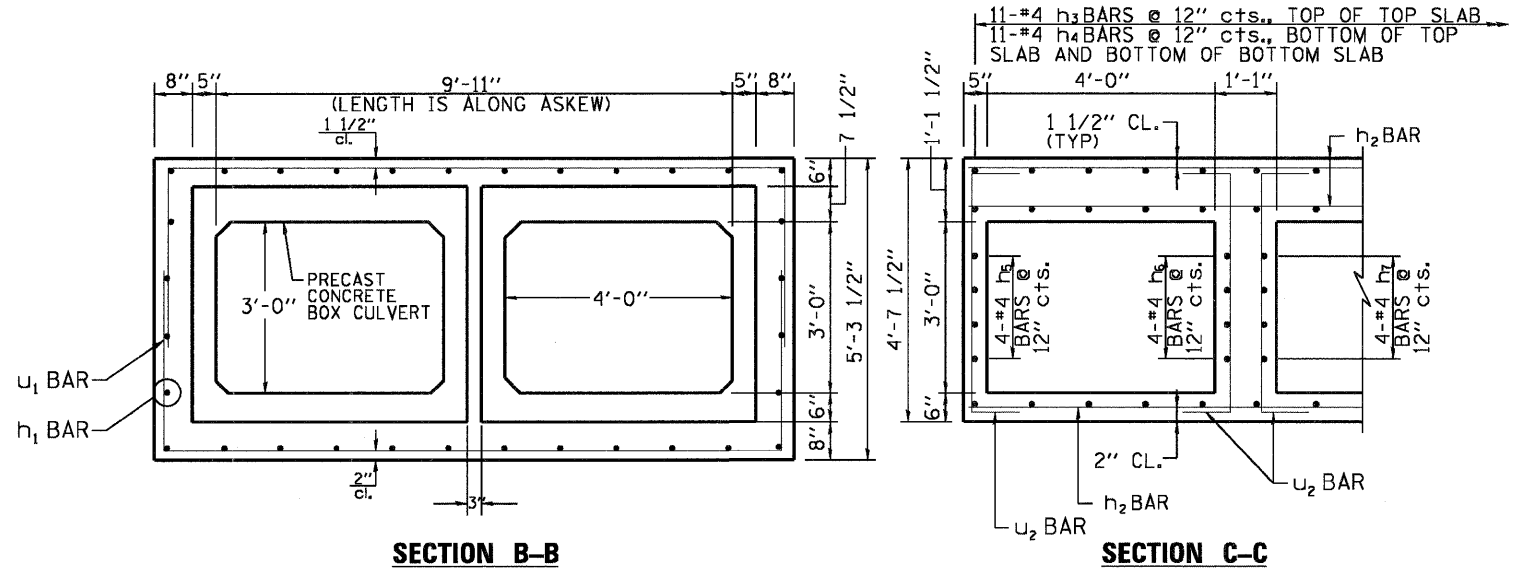
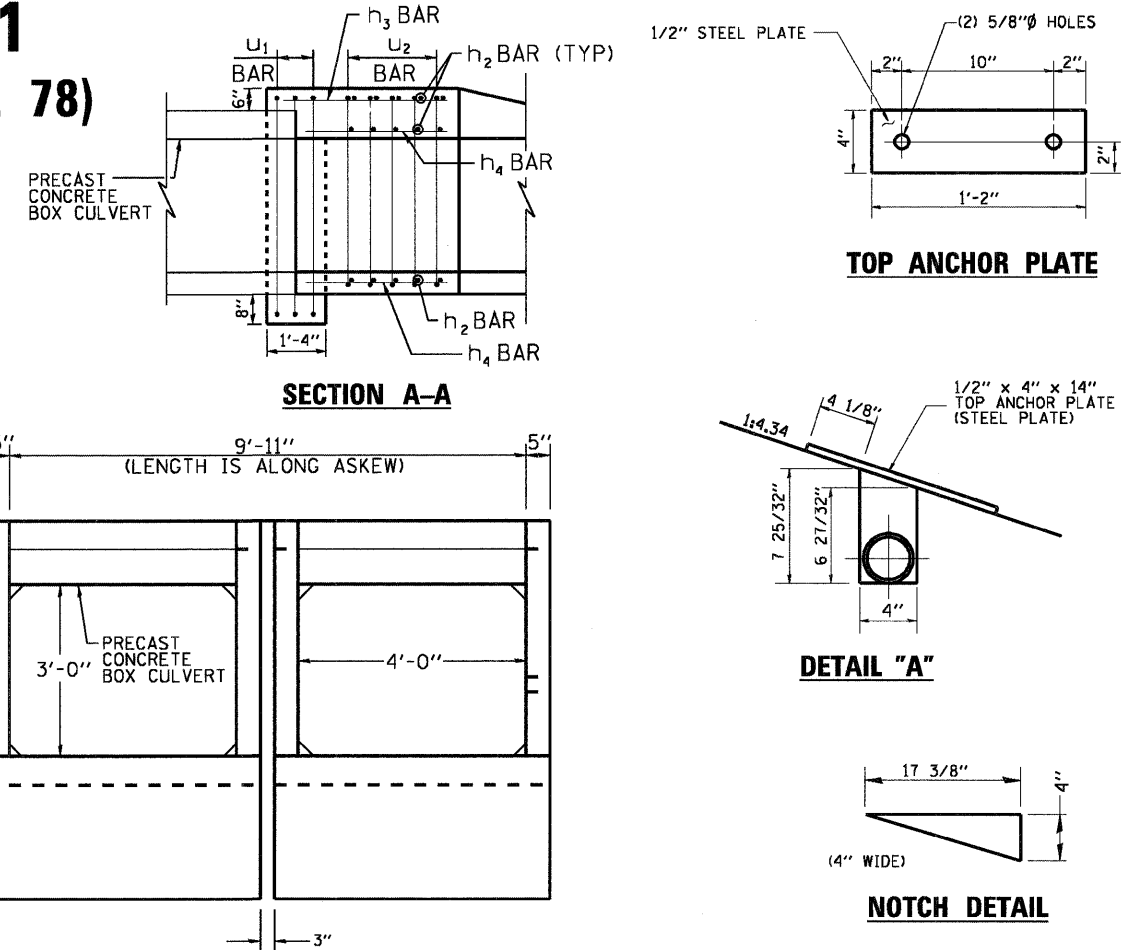
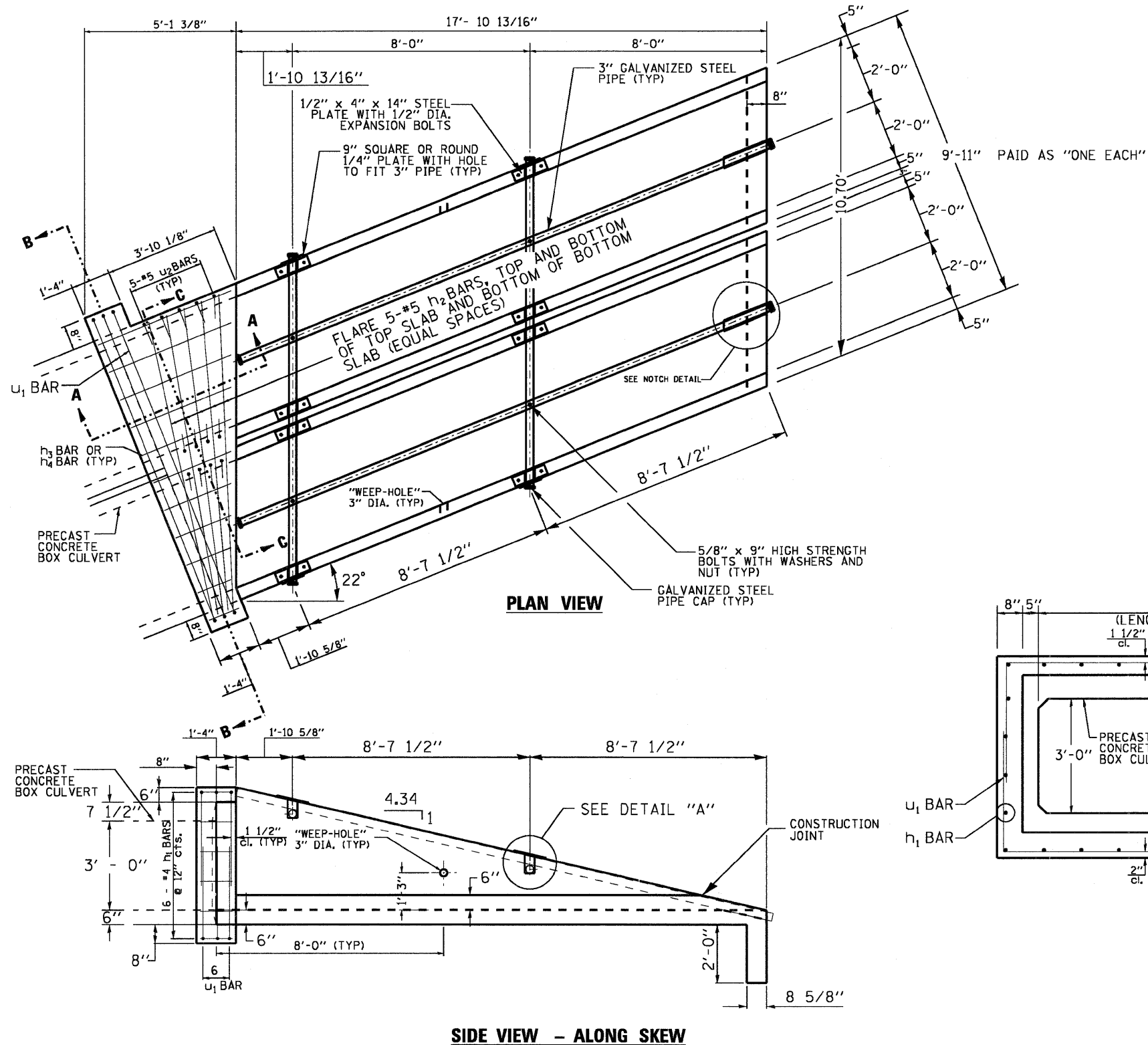
SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION.

SEE CROSS SECTION SHEET FOR MORE INFORMATION AND INVERT ELEVATIONS.


GRATED CULVERT EXTENSION NO. 1

SN 043-1063 - LT & RT STA 182+98.97 (IL RTE 78)

TWIN CULVERT @ 22° SKEW



TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES".


 H. J. Infante
 9/24/08
 CONTRACT NO. 64007

FILE NAME =	USER NAME = *USER*	DESIGNED MGH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GRATED CULVERT EXTENSION NO.1 SHEET 1 OF 2	F.A.P. RTE. 642	SECTION (10, 11)T	COUNTY JODAVIESS	TOTAL SHEETS 283	SHEET NO. 89
PLOT SCALE = 1:50	CHECKED RGD	DATE 9/26/2008	REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	CONTRACT NO. 64007				

GRATED CULVERT EXTENSION NO. 1

SN 043-1063 - LT & RT STA 182+98.97 (IL RTE 78)

TWIN CULVERT @ 22° SKEW

BILL OF MATERIALS * (FOR INFORMATION ONLY - ONE EXTENSION)

BAR	NO.	SIZE	LENGTH	SHAPE
a	6	#4	4'-7"	—
d	10	#4	4'-8"	L
h	6	#4	18'-9"	—
h ₁	32	#4	1'-1"	—
h ₂	15	#5	10'-4"	—
h ₃	6	#4	5'-11"	—
h ₄	11	#4	5'-3"	—
h ₅	4	#4	4'-11"	—
h ₆	4	#4	1'-9"	—
h ₇	4	#4	1'-6"	—
h ₈	4	#4	19'-1"	—
h ₉	7	#4	18'-10"	—
u	52	#4	8'-3"	U
u ₁	6	#6	18'-3"	U
u ₂	15	#5	5'-11"	U
v	30	#4	6'-4"	—

DESCRIPTION	UNIT	QTY
CLASS "SI" CONCRETE	CU YD	12.6
REINFORCEMENT BARS	LB	1200
3" GALVANIZED STEEL PIPE	FOOT	2 @ 11' - 1 9/16"
3" GALV PIPE CAPS	EACH	8
1/4" GALV STEEL PLATE (9" NOMINAL)	EACH	4
1/2" x 4" x 14" GALV STEEL PLATE	EACH	8
5/8" x 9" GALV STEEL BOLTS	EACH	4
EXPANSION BOLTS 1/2"Ø	EACH	16

GENERAL NOTES:

THE CONTRACT UNIT PRICE "EACH" FOR GRATED CULVERT EXTENSION NO. 1 SHALL INCLUDE THE EXPANSION BOLTS, GALVANIZED PIPE, ANCHOR PLATES, & CAPS, CLASS SI CONCRETE, REINFORCEMENT BARS, BOLTS NUTS, WASHERS, INSTALLATION ON THE PROPOSED CULVERT, EARTH EXCAVATION WHERE REQUIRED, CONNECTION COLLAR, PIPE GRATING, AND ANY NECESSARY GRADING TO FIT GRATED CULVERT EXTENSION AS SHOWN IN THE CROSS SECTIONS OR TO SLOPE.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. EXPOSED EDGES SHALL BE BEVELED 3/4".

BOLTS, NUTS AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR. 60 (IL MODIFIED).

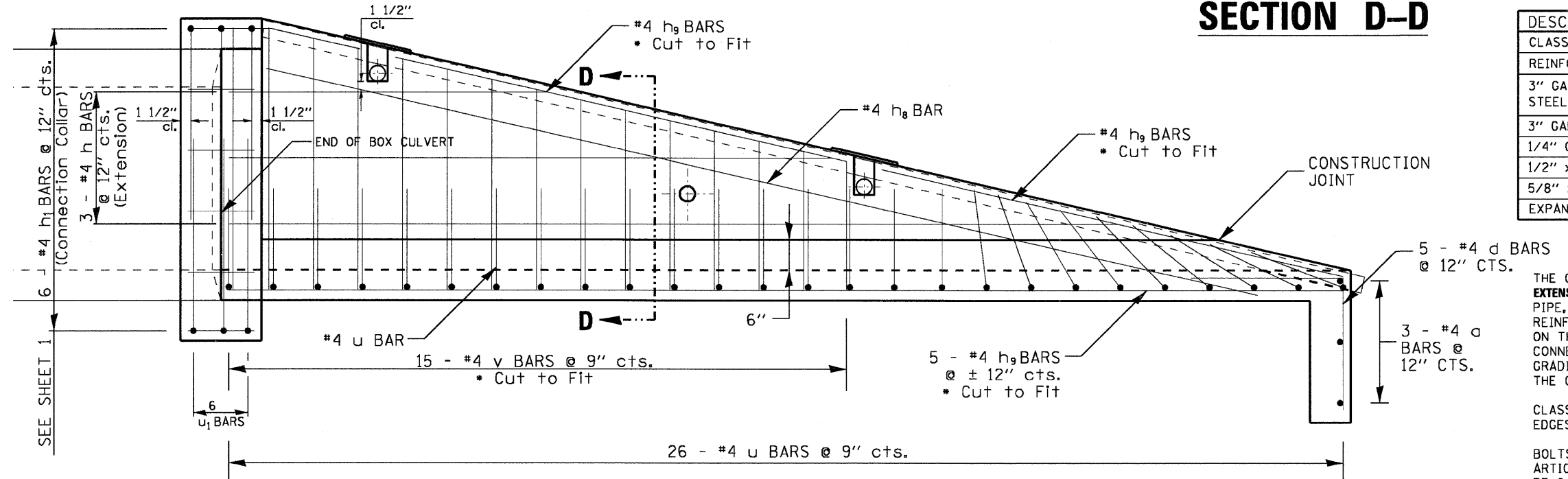
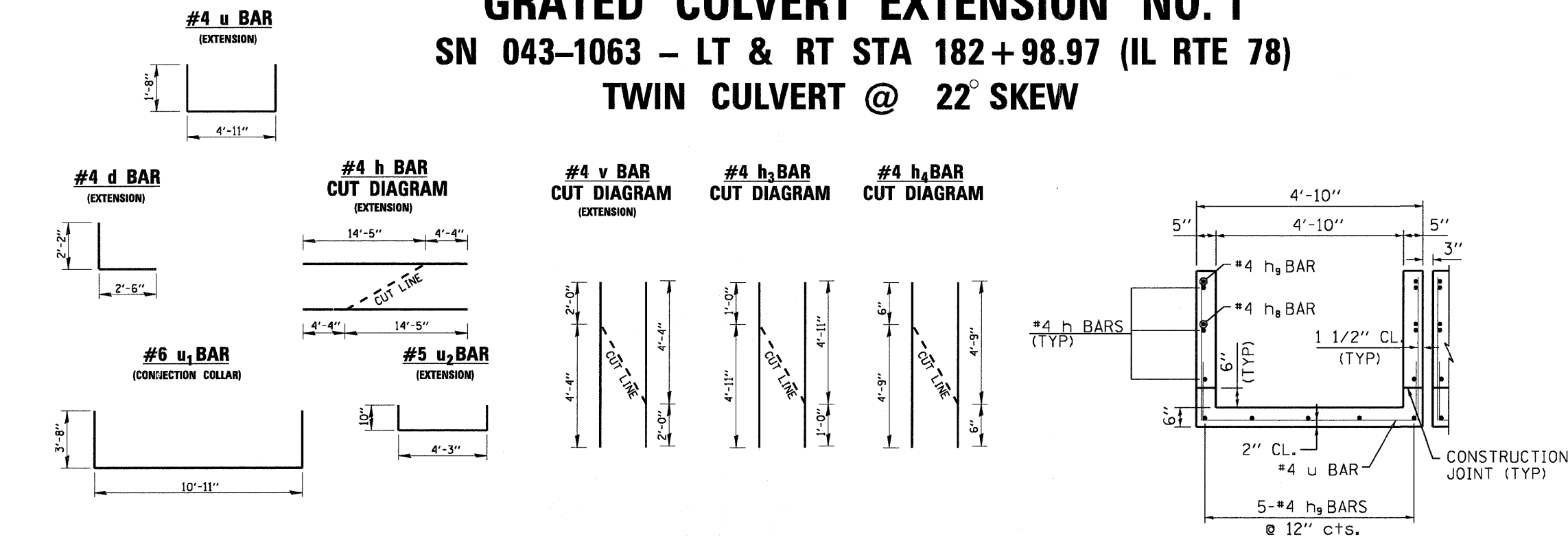
SEE CROSS SECTION SHEET FOR MORE INFORMATION INCLUDING INVERT ELEVATIONS.

STEEL PLATES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

STEEL PIPE SHALL CONFORM TO ASTM A-53 (TYPE E OR S), GRADE B, SCHEDULE 40 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

GRATING DESIGN CONFORMS TO AASHTO ROADSIDE DESIGN GUIDE ART. 3.4.2.1.

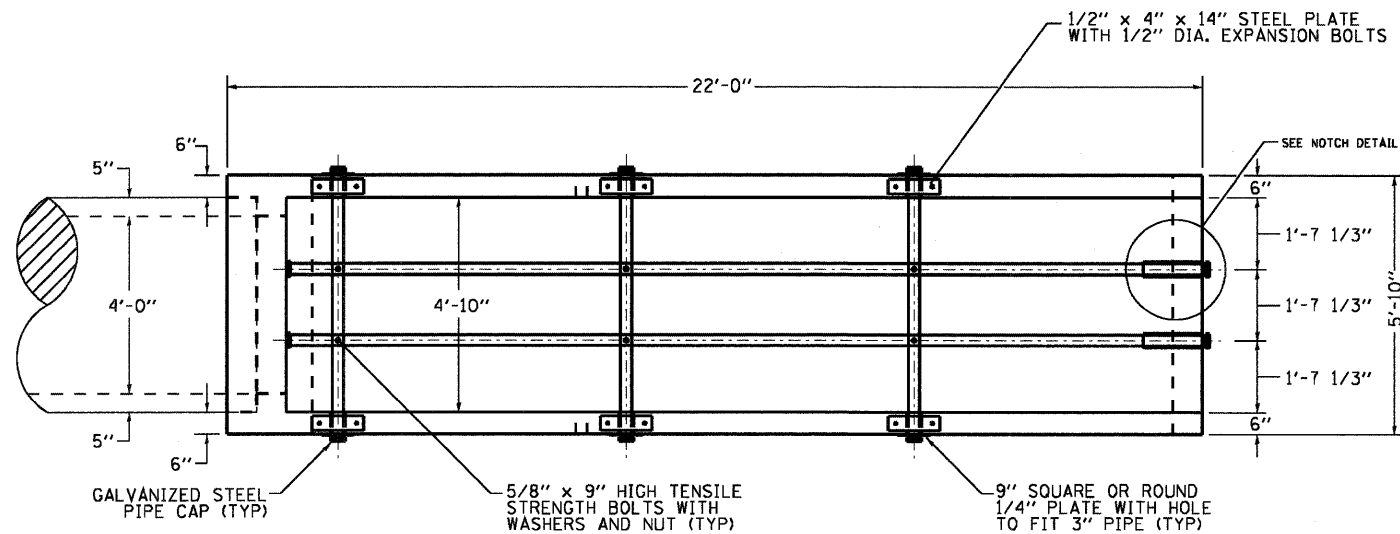
* A TOTAL OF TWO (2) GRATED CULVERT END SECTIONS ARE REQUIRED.



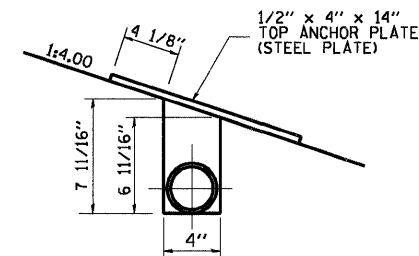
SIDE VIEW - ALONG SKEW (REINFORCEMENT DETAIL)

GRATED CULVERT EXTENSION NO. 2

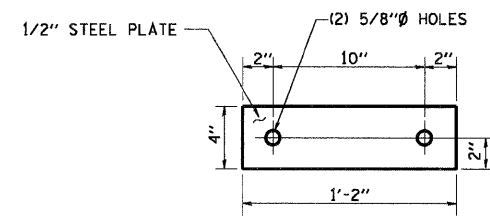
SN 043-1068 - RT STA 448+28.40 (IL RTE 78)



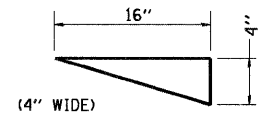
PLAN VIEW



DETAIL "A"

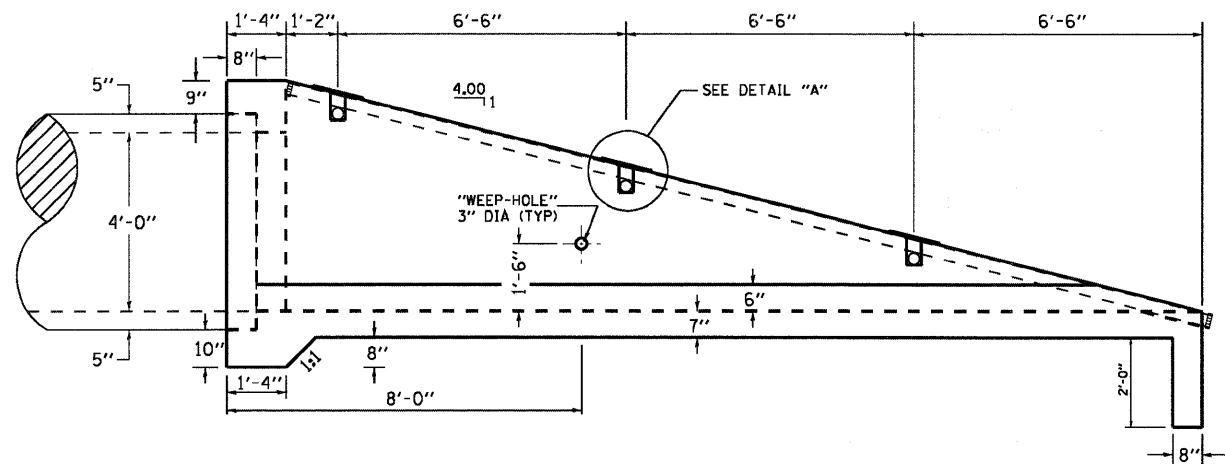


TOP ANCHOR PLATE

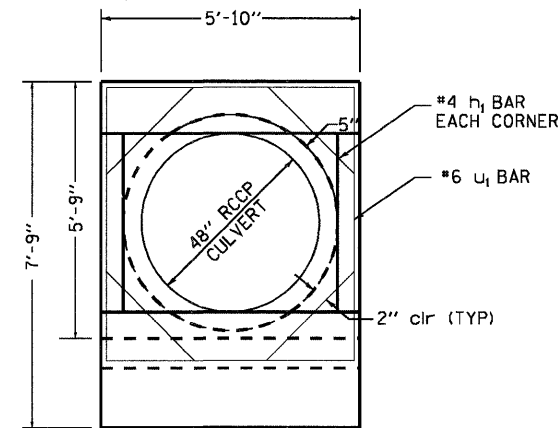


NOTCH DETAIL

PAID AS "ONE EACH"



SIDE VIEW



END VIEW

TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES".



FILE NAME =	USER NAME = #USER#	DESIGNED <i>MGH</i>	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GRATED CULVERT EXTENSION NO. 2 SHEET 1 OF 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 1:50	DRAWN <i>WJH</i>	REVISED -			642	(10, 11)T	JODAVIESS	283	91	
	PLOT DATE = #DATE#	CHECKED <i>RGD</i>	REVISED -			CONTRACT NO. 64007					
		DATE <i>9/26/2008</i>	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET NO.	OF	SHEETS	STA. TO STA.	

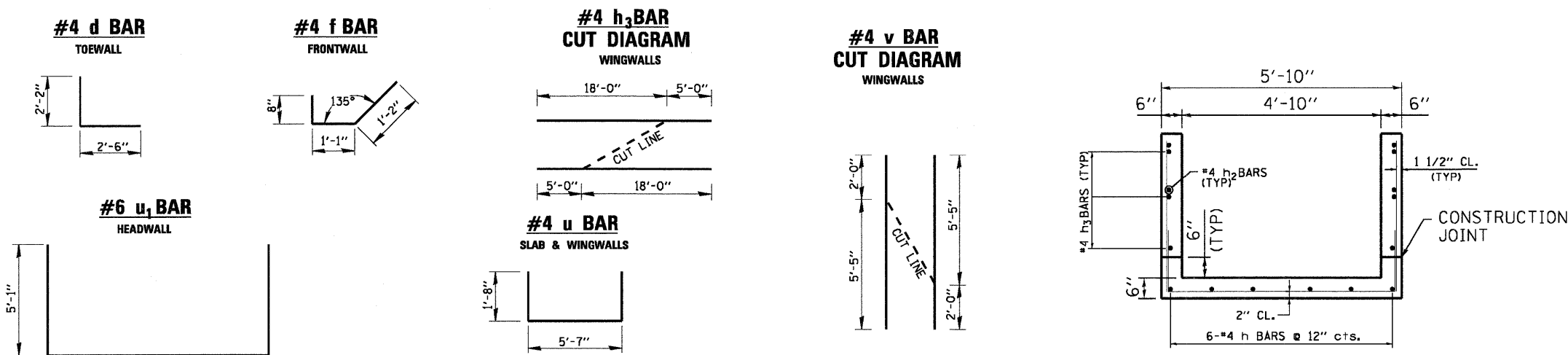
GRATED CULVERT EXTENSION NO. 2

SN 043-1068 - RT STA 448+28.40 (IL RTE 78)

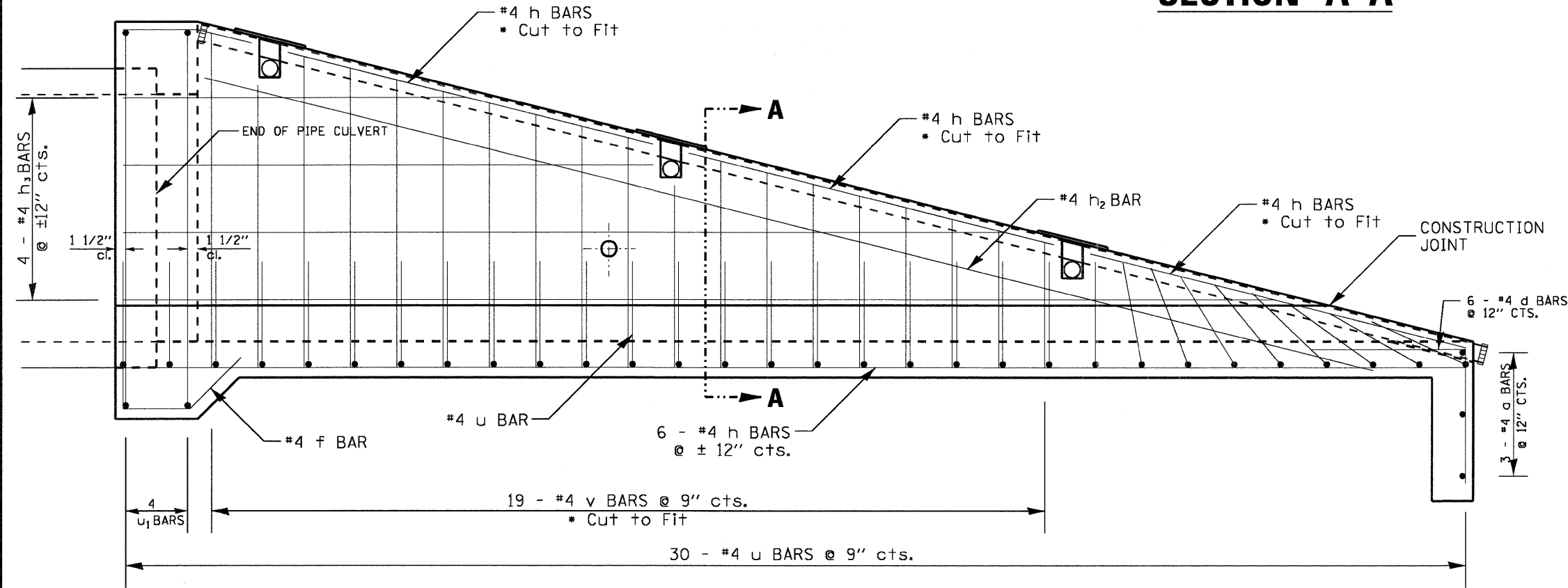
BILL OF MATERIALS (FOR INFORMATION ONLY)

BAR	NO.	SIZE	LENGTH	SHAPE
d	3	#4	5' - 7"	—
d	6	#4	4' - 8"	L
f	6	#4	2' - 11"	L
h	8	#4	21' - 9"	—
h ₁	4	#4	2' - 10"	—
h ₂	4	#4	19' - 9"	—
h ₃	4	#4	23' - 0"	—
u	30	#4	8' - 11"	—
u ₁	4	#6	15' - 9"	—
v	19	#4	7' - 5"	—

DESCRIPTION	UNIT	QTY
CLASS "SI" CONCRETE	CU YD	6.0
REINFORCEMENT BARS	LB	650
3" GALVANIZED STEEL PIPE	FOOT	2 @ 6'-2"
	FOOT	2 @ 21'-6"
3" GALV PIPE CAPS	EACH	10
1/4" GALV STEEL PLATE (9" NOMINAL)	EACH	6
1/2" x 4" x 14" GALV STEEL PLATE	EACH	6
5/8" x 9" GALV STEEL BOLTS	EACH	6
EXPANSION BOLTS 1/2"Ø	EACH	12



SECTION A-A



**SIDE VIEW
(REINFORCEMENT DETAIL)**

GENERAL NOTES:

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER "EACH" FOR GRATED CULVERT EXTENSION NO. 2. THIS WORK SHALL INCLUDE THE GALVANIZED PIPE, ANCHOR PLATES, & CAPS, CLASS SI CONCRETE, REINFORCEMENT BARS, BOLTS, NUTS, WASHERS, INSTALLATION ON THE PROPOSED CULVERT, EARTH EXCAVATION AND DIVERTING WATER WHERE REQUIRED, PIPE GRATING, AND ANY NECESSARY GRADING TO FIT THE GRATED CULVERT EXTENSION AS SHOWN IN THE CROSS SECTIONS OR TO SLOPE.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. EXPOSED EDGES SHALL BE BEVELED 3/4".

BOLTS, NUTS AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR. 60 (IL MODIFIED).

STEEL PLATES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

STEEL PIPES SHALL CONFORM TO ASTM A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO ASTM A-120, CONTRACTOR SHALL FIELD VERIFY PIPE LENGTH.

SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION.

SEE CROSS SECTION SHEET FOR MORE INFORMATION INCLUDING INVERT ELEVATIONS.

GRATING DESIGN CONFORMS TO AASHTO ROADSIDE DESIGN GUIDE ART. 3.4.2.1.

DROP BOX NO. 1

LT STA. 336 + 17.63

BILL OF MATERIALS (FOR INFORMATION ONLY)

BAR	SIZE	NO.	LENGTH	SHAPE
a	#4	24	4'-1"	—
f	#4	5	2'-0"	┌
h	#6	1	4'-1"	—
h ₁	#4	19	4'-1"	—
u	#6	4	11'-0"	┌
v	#4	2	5'-0"	—
v ₁	#5	11	6'-7"	—
DESCRIPTION	UNIT	QTY		
CLASS "SI" CONCRETE	CU YD	2.0		
REINFORCEMENT BARS	LB	280		

BILL OF MATERIALS (FOR INFORMATION ONLY)

DESCRIPTION	UNIT	QTY.
3" GALVANIZED STEEL PIPE	FOOT	1 @ 3'-10"
3" GALV PIPE CAPS	EACH	3
1/4" GALV. STEEL PLATE (9" NOMINAL)	EACH	3
1/2" x 4" x 14" GALV. STEEL PLATE	EACH	3
5/8" x 9" GALV. STEEL BOLTS	EACH	1
EXPANSION BOLTS 1/2"Ø	EACH	6

GENERAL NOTES:

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER "EACH" FOR **DROP BOX NO. 1**. THIS WORK SHALL INCLUDE THE GALVANIZED PIPE, ANCHOR PLATES, & CAPS, CLASS SI CONCRETE, REINFORCEMENT BARS, BOLTS, NUTS, WASHERS, INSTALLATION ON THE PROPOSED CULVERT, PIPE GRATING, EARTH EXCAVATION AND DIVERTING WATER WHERE REQUIRED, AND ANY NECESSARY GRADING TO FIT THE DROP BOX, AS SHOWN IN THE CROSS SECTIONS OR TO SLOPE.

THE CLASS SI CONCRETE SHALL BE USED THROUGHOUT. EXPOSED EDGES SHALL BE BEVELED 3/4".

SLOPE FLOW LINE FOR DROP BOX NO. 1 IS THE SAME RATE AS THE FLOW LINE OF THE PIPE.

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120. CONTRACTOR SHALL FIELD VERIFY PIPE LENGTH.

STEEL PLATES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR. 60 (IL MODIFIED).

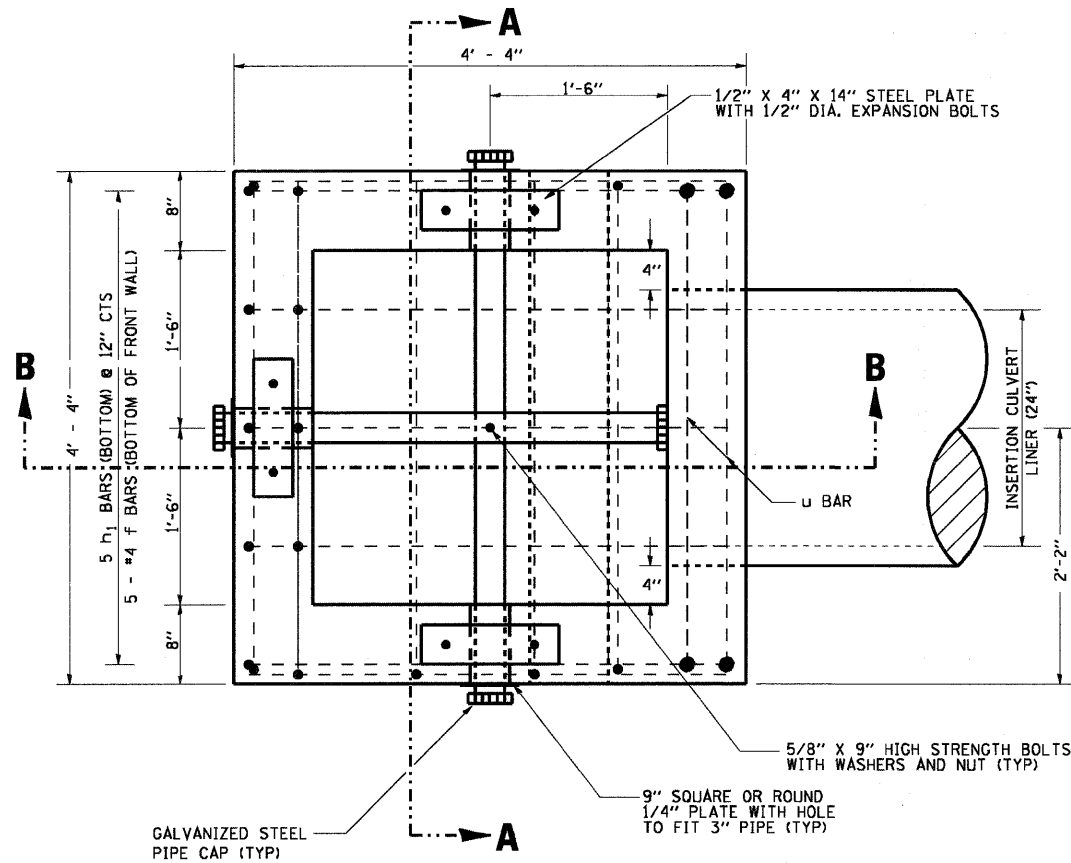
THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIVERTING THE WATER FLOW FROM THE CONSTRUCTION AREA USING A METHOD MEETING THE APPROVAL OF THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLE 503 OF THE STANDARD SPECIFICATION. COST INCLUDED WITH "DROP BOX NO. 1."

SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION.

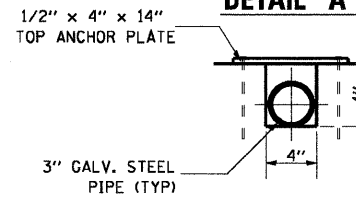
SEE CROSS SECTION SHEET FOR MORE INFORMATION INCLUDING INVERT ELEVATIONS.

INSERTION CULVERT LINER (24") SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SECTION 543. RPM-D3262 OR PROFILE WALL-FB94 SHALL BE UTILIZED.

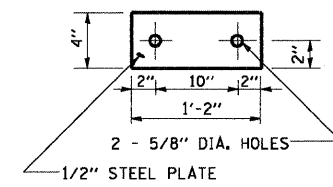
PLAN



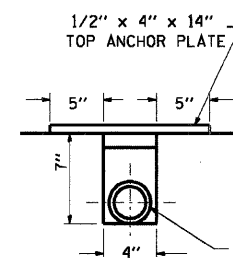
DETAIL "A"



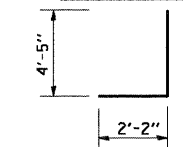
TOP ANCHOR PLATE



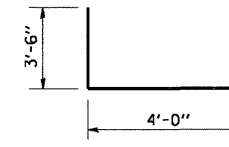
DETAIL "B"



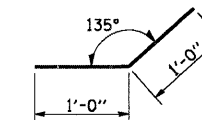
#5 v₁ BAR



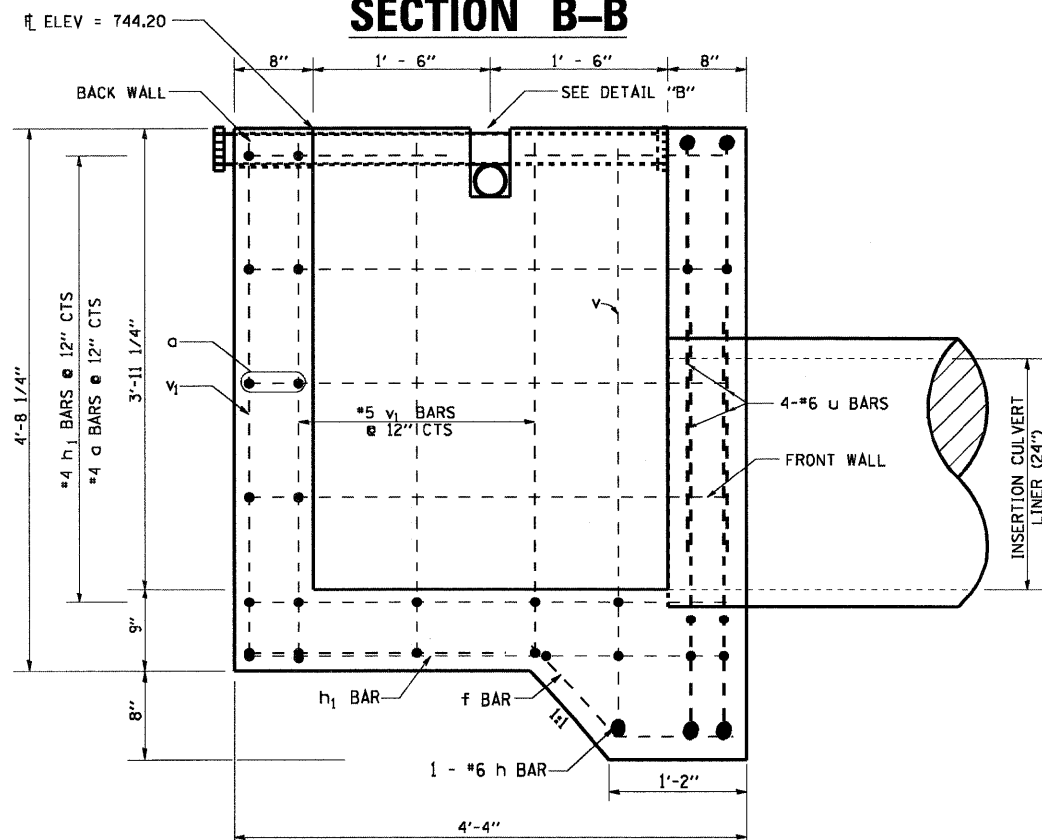
#6 u BAR



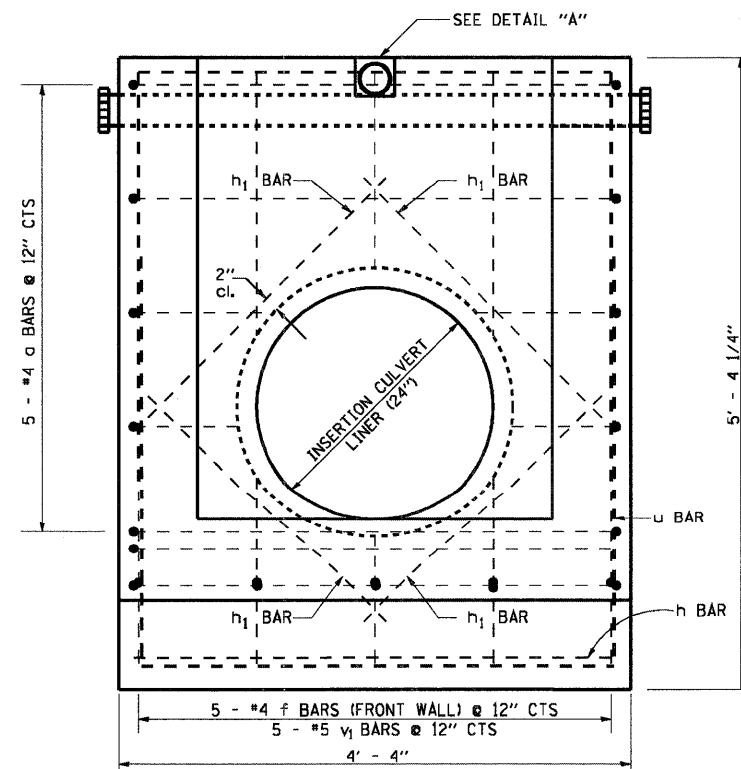
#4 f BAR



SECTION B-B



SECTION A-A



FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DROP BOX NO. 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:50	DRAWN -	REVISED -			642	(10,11)T	JODAVIESS	283	95
	PLOT DATE = #DATE#	CHECKED -	REVISED -			CONTRACT NO. 64007				
		DATE -	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

DROP BOX NO. 2

LT STA. 348 + 33.81

BILL OF MATERIALS (FOR INFORMATION ONLY)

BAR	SIZE	NO.	LENGTH	SHAPE
c	#4	24	5'-1"	—
f	#4	6	2'-0"	┌
h	#6	1	5'-1"	—
h ₁	#4	16	5'-1"	—
u	#6	4	11'-6"	┌
v	#4	2	4'-6"	—
v ₁	#5	8	5'-7"	┌
v ₂	#5	2	5'-8"	┌
v ₃	#5	2	5'-3"	┌
v ₄	#5	2	5'-11"	┌
z	#4	4	3'-6"	—
DESCRIPTION			UNIT	QTY
CLASS "SI" CONCRETE			CU YD	2.3
REINFORCEMENT BARS			LB	320

BILL OF MATERIALS (FOR INFORMATION ONLY)

DESCRIPTION	UNIT	QTY.
3" GALVANIZED STEEL PIPE	FOOT	1 @ 4'-10"
3" GALV PIPE CAPS	EACH	3
1/4" GALV. STEEL PLATE (9" NOMINAL)	EACH	3
1/2" x 4" x 14" GALV. STEEL PLATE	EACH	3
5/8" x 9" GALV. STEEL BOLTS	EACH	1
EXPANSION BOLTS 1/2"Ø	EACH	6

GENERAL NOTES:

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER "EACH" FOR DROP BOX NO. 2. THIS WORK SHALL INCLUDE THE GALVANIZED PIPE, ANCHOR PLATES, & CAPS, CLASS SI CONCRETE, REINFORCEMENT BARS, BOLTS, NUTS, WASHERS, INSTALLATION ON THE PROPOSED CULVERT, PIPE GRATING, EARTH EXCAVATION AND DIVERTING WATER WHERE REQUIRED, AND ANY NECESSARY GRADING TO FIT THE DROP BOX, AS SHOWN IN THE CROSS SECTIONS OR TO SLOPE.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. EXPOSED EDGES SHALL BE BEVELED 3/4".

SLOPE FLOW LINE FOR DROP BOX NO. 2 IS THE SAME RATE AS THE FLOW LINE OF THE PIPE.

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

STEEL PIPES SHALL CONFORM TO ASTM A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO ASTM A-120. CONTRACTOR SHALL FIELD VERIFY PIPE LENGTH.

STEEL PLATES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

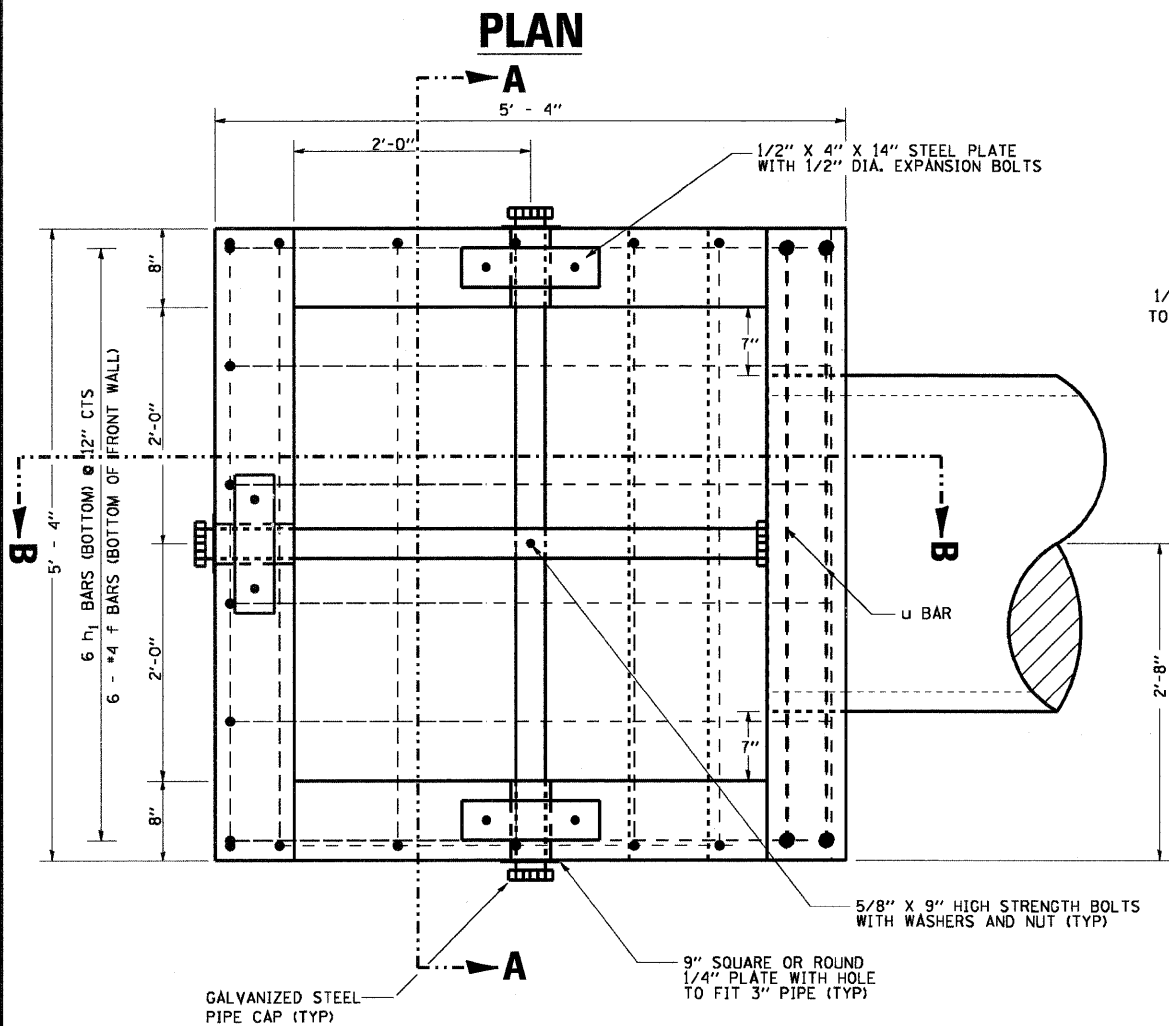
REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR. 60 (IL MODIFIED).

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIVERTING THE WATER FLOW FROM THE CONSTRUCTION AREA USING A METHOD MEETING THE APPROVAL OF THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLE 503 OF THE STANDARD SPECIFICATIONS. COST INCLUDED WITH "DROP BOX NO. 2."

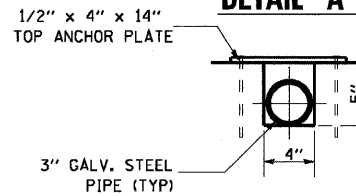
SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION.

SEE CROSS SECTION SHEET FOR MORE INFORMATION INCLUDING INVERT ELEVATIONS.

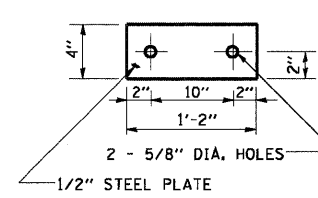
INSERTION CULVERT LINER (30") SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SECTION 543.



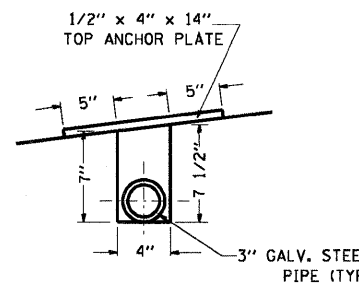
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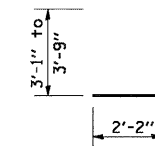
TOP ANCHOR PLATE



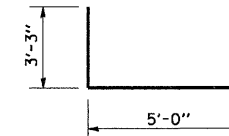
DETAIL "B"



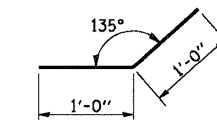
#5 V₁ to V₄ BARS



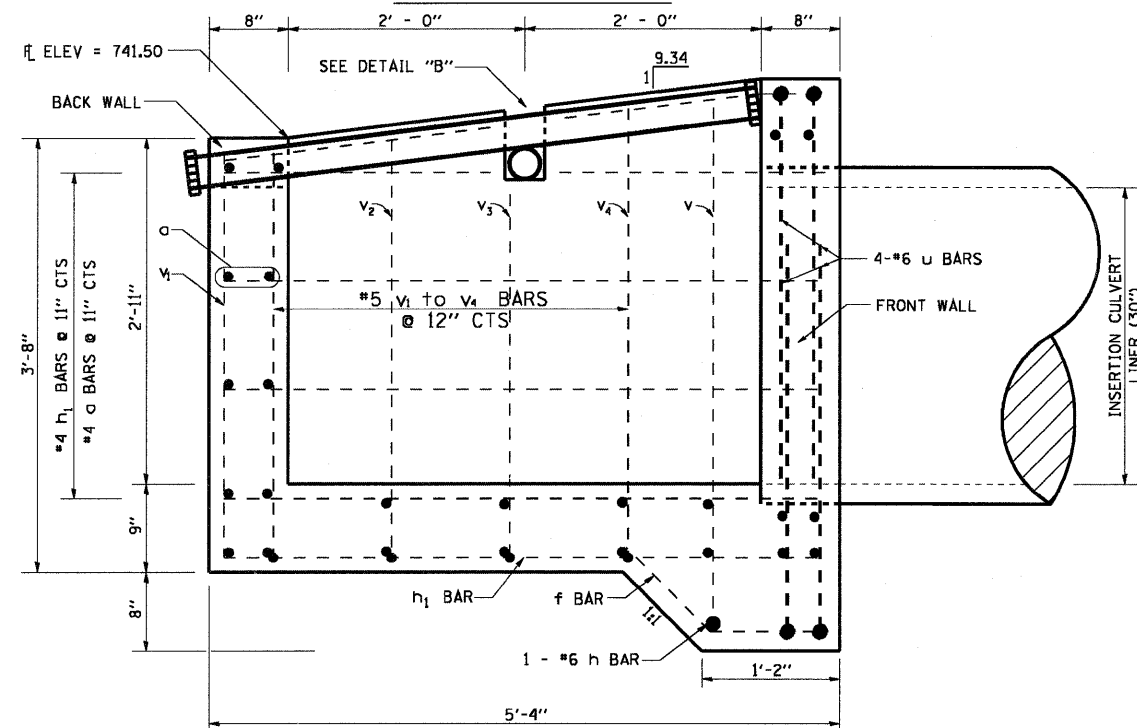
#6 u BAR



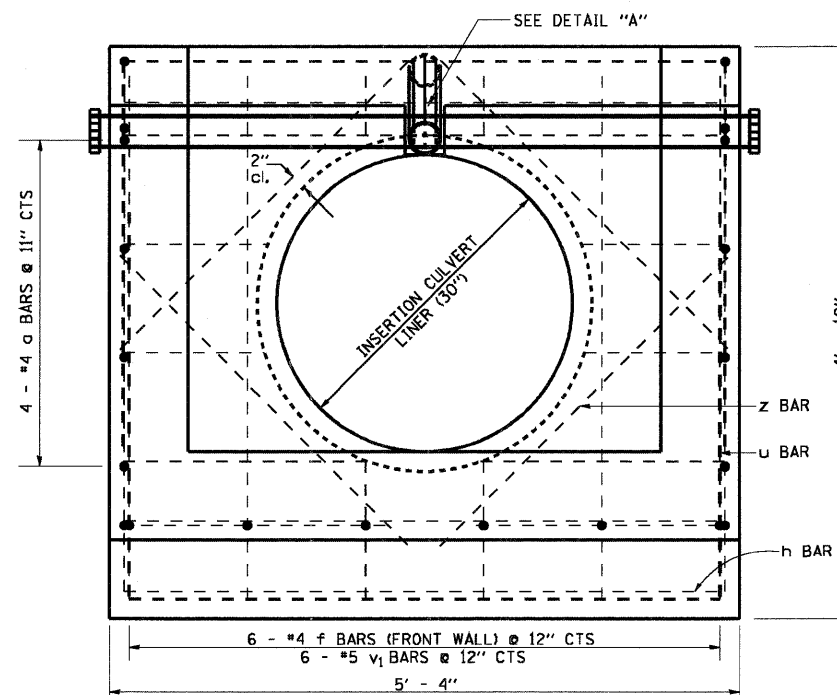
#4 f BAR



SECTION B-B



SECTION A-A

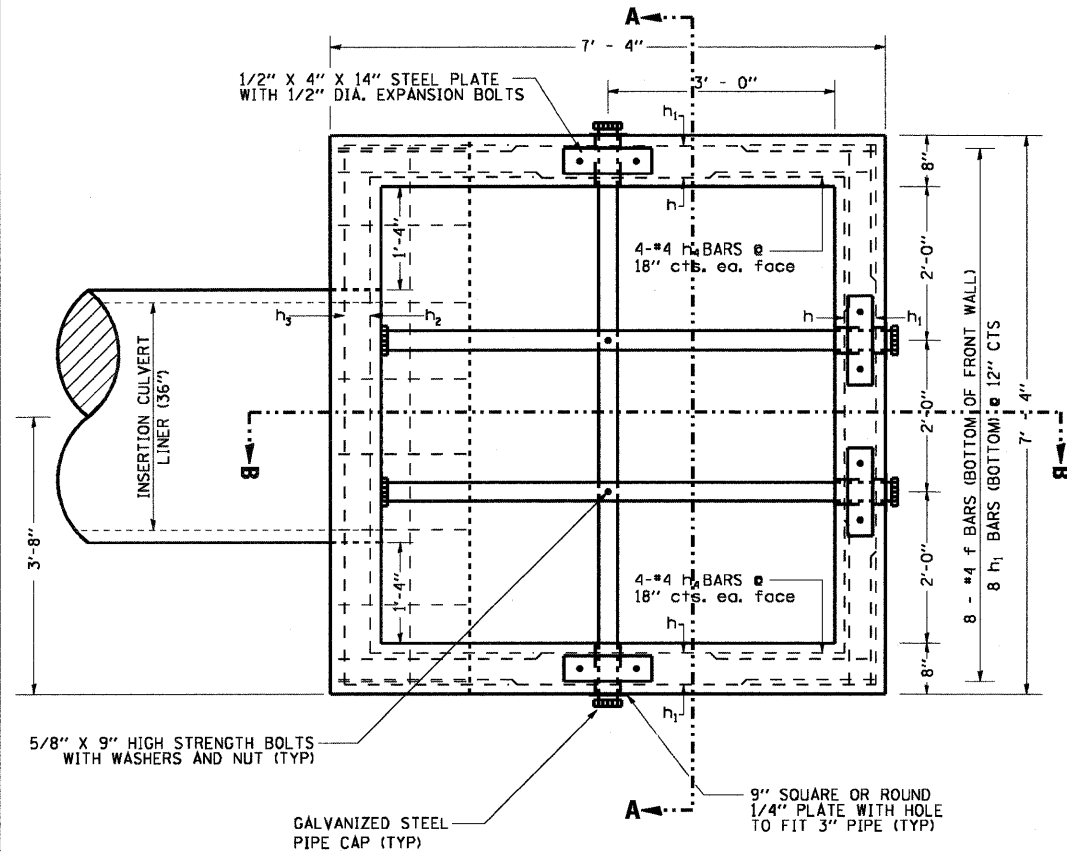


FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DROP BOX NO. 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 1:50	DRAWN -	REVISED -			642	(10, 11)T	JODAVIESS	283	96	
	PLOT DATE = #DATE#	CHECKED -	REVISED -			CONTRACT NO. 64007					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
SCALE: SHEET NO. OF SHEETS STA. TO STA.											

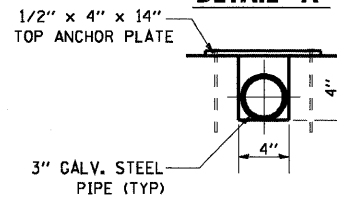
DROP BOX NO. 3

RT STA. 435 + 71.80

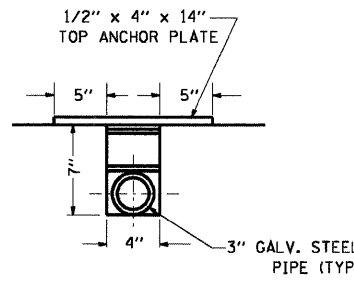
PLAN



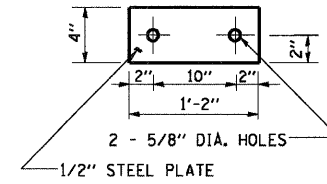
DETAIL "A"



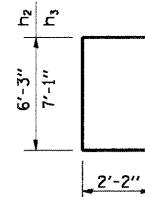
DETAIL "B"



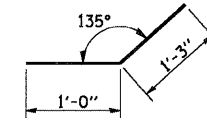
TOP ANCHOR PLATE



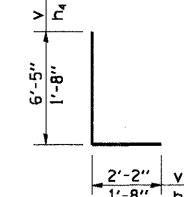
#5 h₂ & h₃ BARS



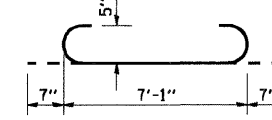
#4 f BAR



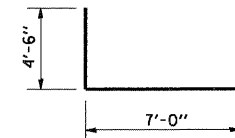
#5 v BAR & #4 h₄ BAR



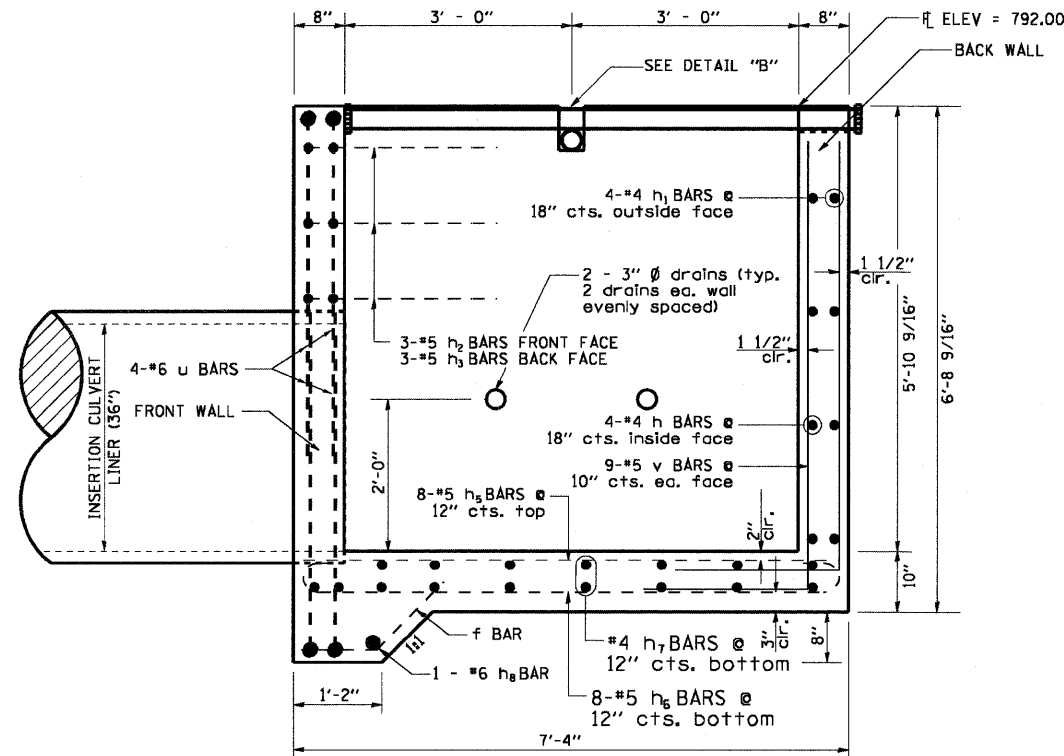
#5 h₄ BAR



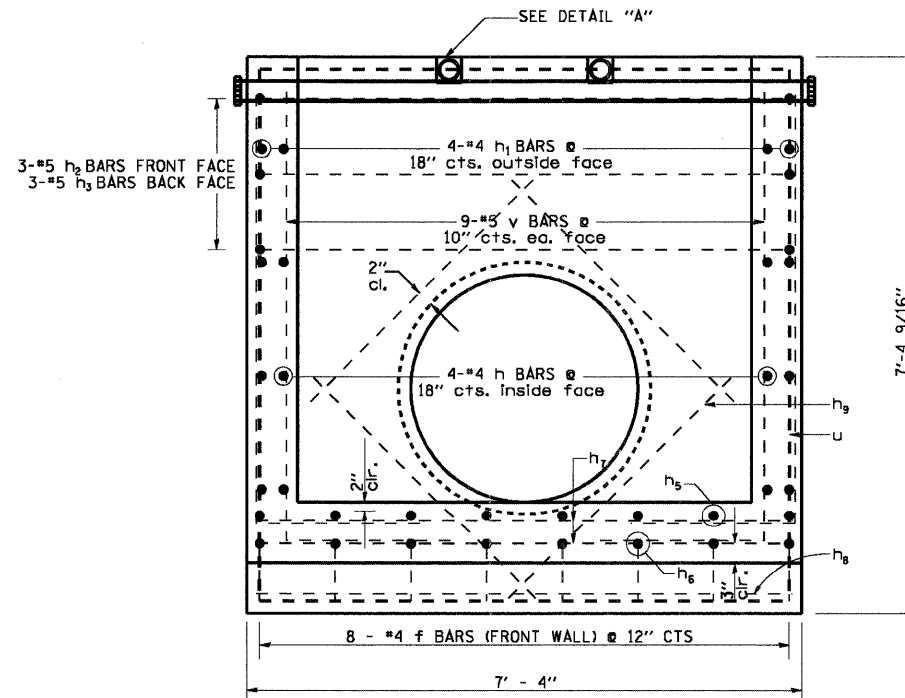
#6 u BAR



SECTION B-B



SECTION A-A



BILL OF MATERIALS (FOR INFORMATION ONLY)

BAR	NO.	SIZE	LENGTH	SHAPE
f	8	#4	2'-3"	
h	12	#4	7'-1"	
h ₁	12	#4	7'-1"	
h ₂	3	#5	8'-5"	
h ₃	3	#5	9'-3"	
h ₄	16	#4	3'-4"	
h ₅	8	#5	7'-1"	
h ₆	8	#5	8'-3"	
h ₇	16	#4	7'-1"	
h ₈	1	#6	7'-1"	
h ₉	4	#4	4'-2"	
u	4	#6	16'-0"	
v	52	#5	8'-7"	
DESCRIPTION		UNIT	QUANTITY	
CLASS "SI" CONCRETE		CU YD	5.6	
REINFORCEMENT BARS		LB	1000	

BILL OF MATERIALS (FOR INFORMATION ONLY)

DESCRIPTION	UNIT	QTY.
3" GALVANIZED STEEL PIPE	FOOT	2 @ 6'-10"
3" GALV PIPE CAPS	EACH	4
1/4" GALV. STEEL PLATE (9" NOMINAL)	EACH	4
1/2" x 4" x 14" GALV. STEEL PLATE	EACH	4
5/8" x 9" GALV. STEEL BOLTS	EACH	2
EXPANSION BOLTS 1/2"Ø	EACH	8

GENERAL NOTES:

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER "EACH" FOR DROP BOX NO. 3. THIS WORK SHALL INCLUDE THE GALVANIZED PIPE, ANCHOR PLATES, & CAPS, CLASS SI CONCRETE, REINFORCEMENT BARS, BOLTS, NUTS, WASHERS, INSTALLATION ON THE PROPOSED CULVERT, PIPE GRATING, EARTH EXCAVATION AND DIVERTING WATER WHERE REQUIRED, AND ANY NECESSARY GRADING TO FIT THE DROP BOX, AS SHOWN IN THE CROSS SECTIONS OR TO SLOPE.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. EXPOSED EDGES SHALL BE BEVELED 3/4"

SLOPE FLOW LINE FOR DROP BOX NO. 3 IS THE SAME RATE AS THE FLOW LINE OF THE PIPE.

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120. CONTRACTOR SHALL FIELD VERIFY PIPE LENGTH.

STEEL PLATES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR. 60 (IL MODIFIED).

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIVERTING THE WATER FLOW FROM THE CONSTRUCTION AREA USING A METHOD MEETING THE APPROVAL OF THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLE 503 OF THE STANDARD SPECIFICATION. COST INCLUDED WITH "DROP BOX NO. 3."

DRAIN HOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 503.11.

SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION.

SEE CROSS SECTION SHEET FOR MORE INFORMATION INCLUDING INVERT ELEVATIONS.

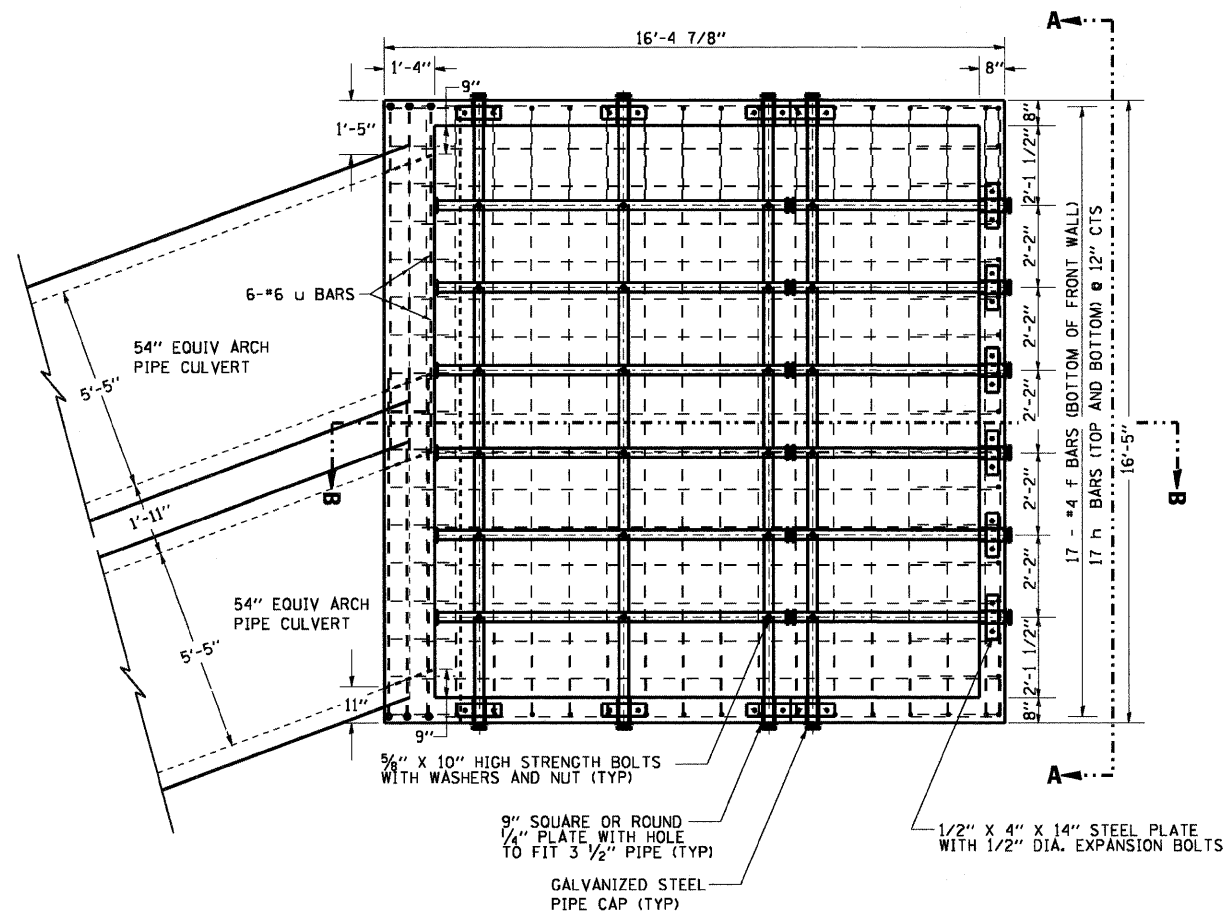
INSERTION CULVERT LINER (36") SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SECTION 543. RPM-D3262, PROFILE WALL-F894, OR PVC SHALL BE UTILIZED.

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DROP BOX NO. 3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -			642	(10, 11)T	JODAVIESS	283	97	
		CHECKED -	REVISED -			CONTRACT NO. 64007					
		DATE -	REVISED -			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					
						SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	

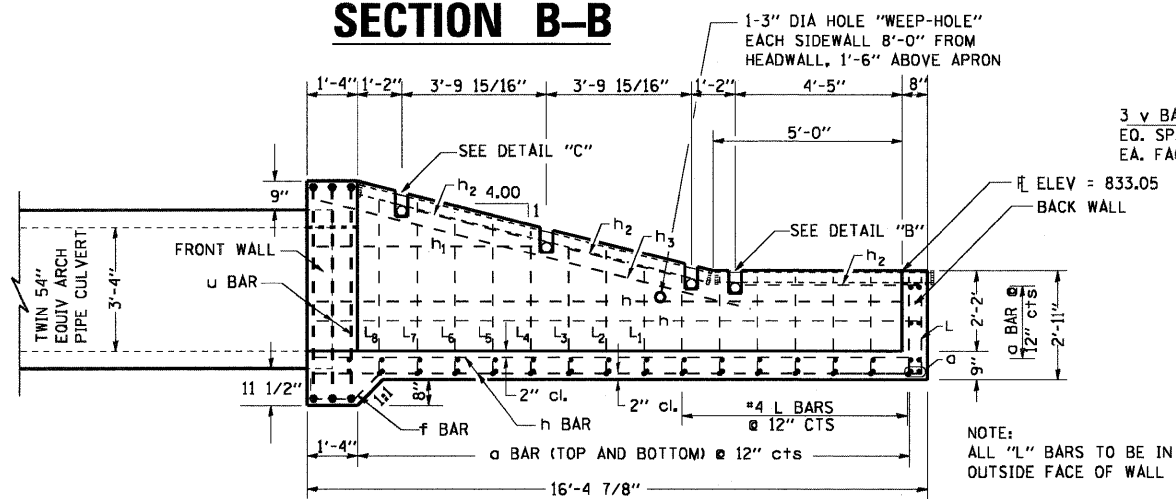
DROP BOX NO. 5

SN 043-1070 - RT STA. 501+14.74 (IL RTE 78)

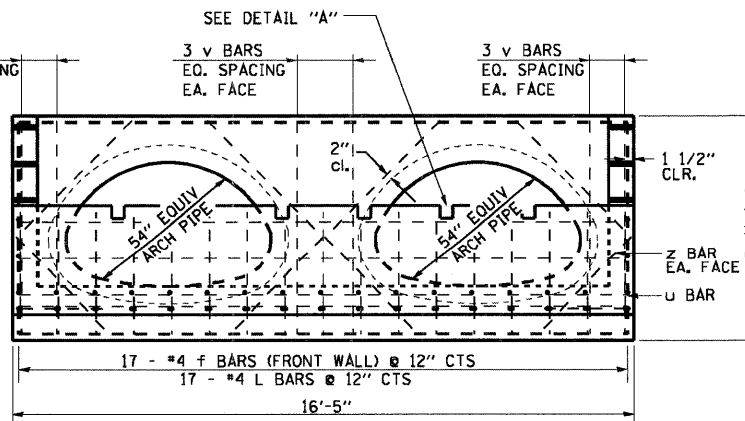
PLAN



SECTION B-B



SECTION A-A



BILL OF MATERIALS (FOR INFORMATION ONLY)

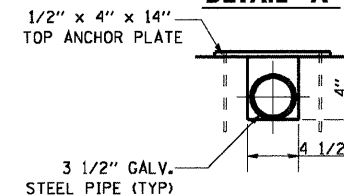
BAR	SIZE	NO.	LENGTH	SHAPE
a	#4	38	16'-1"	—
f	#4	17	3'-6"	—
h	#4	38	16'-0"	—
h ₁	#4	2	5'-1"	—
h ₂	#4	6	3'-2"	—
h ₃	#4	2	12'-0"	—
L	#4	31	4'-9"	—
L ₁	#4	2	5'-3"	—
L ₂	#4	2	5'-6"	—
L ₃	#4	2	5'-9"	—
L ₄	#4	2	6'-0"	—
L ₅	#4	2	6'-3"	—
L ₆	#4	2	6'-5"	—
L ₇	#4	2	6'-9"	—
L ₈	#4	2	7'-0"	—
u	#6	6	23'-9"	—
v	#4	18	7'-2"	—
z	#4	8	7'-11"	—

DESCRIPTION	UNIT	QTY
CLASS "SI" CONCRETE	CU YD	13.4
REINFORCEMENT BARS	LB	1400

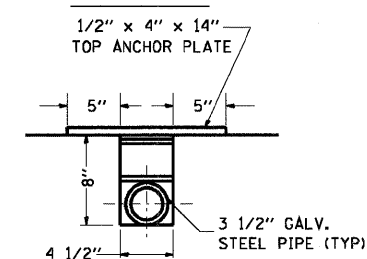
BILL OF MATERIALS (FOR INFORMATION ONLY)

DESCRIPTION	UNIT	QTY.
3 1/2" GALVANIZED STEEL PIPE	FOOT	6 @ 9'-7"
	FOOT	6 @ 5'-9 1/2"
	FOOT	4 @ 16'-9"
3 1/2" GALV PIPE CAPS	EACH	32
1/4" GALV. STEEL PLATE (9" NOMINAL)	EACH	14
1/2" x 4" x 14" GALV. STEEL PLATE	EACH	14
5/8" x 9" GALV. STEEL BOLTS	EACH	24
EXPANSION BOLTS 1/2"Ø	EACH	28

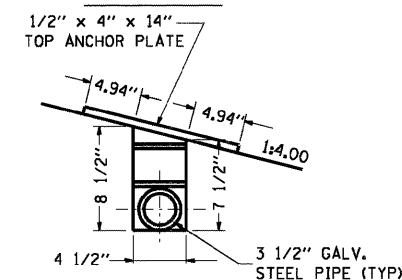
DETAIL "A"



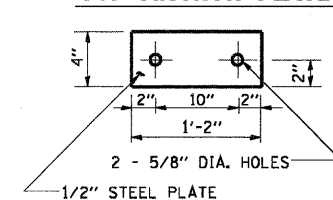
DETAIL "B"



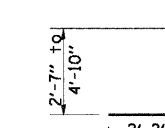
DETAIL "C"



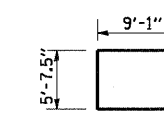
TOP ANCHOR PLATE



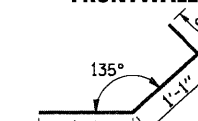
#4 L TO L₆ BAR WINGWALLS



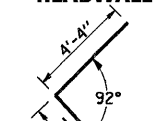
#6 u BAR HEADWALL



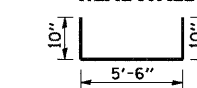
#4 f BAR FRONTWALL



#4 z BAR HEADWALL



#4 v BAR HEADWALL



GENERAL NOTES:

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER "EACH" FOR **DROP BOX NO. 5**. THIS WORK SHALL INCLUDE THE GALVANIZED PIPE, ANCHOR PLATES, & CAPS, CLASS SI CONCRETE, REINFORCEMENT BARS, BOLTS, NUTS, WASHERS, INSTALLATION ON THE PROPOSED CULVERT, PIPE GRATING, EARTH EXCAVATION AND DIVERTING WATER WHERE REQUIRED, AND ANY NECESSARY GRADING TO FIT THE DROP BOX, AS SHOWN IN THE CROSS SECTIONS OR TO SLOPE.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. EXPOSED EDGES SHALL BE BEVELED 3/4".

SLOPE FLOW LINE FOR DROP BOX NO. 5 IS THE SAME RATE AS THE FLOW LINE OF THE PIPE.

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

STEEL PIPES SHALL CONFORM TO A.S.T.M. A-53 (TYPE E OR S) GRADE B, SCHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO A.S.T.M. A-120. CONTRACTOR SHALL FIELD VERIFY PIPE LENGTH.

STEEL PLATES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR. 60 (IL MODIFIED).

SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION.

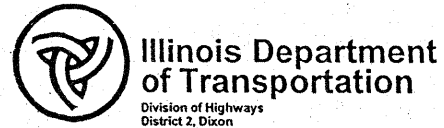
SEE CROSS SECTION SHEET FOR MORE INFORMATION INCLUDING INVERT ELEVATIONS.

GRATING DESIGN CONFORMS TO AASHTO ROADSIDE DESIGN GUIDE ART. 3.4.2.1.

TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH REQUIREMENTS OF THE CURRENT "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES".



BORING LOGS



SOIL BORING LOG

Page 1 of 1

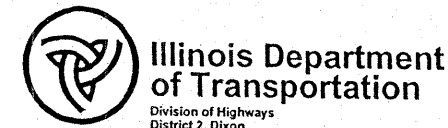
ROUTE FA 642 DESCRIPTION P92-167-90 IL 78 culvert, 0.1 m. N. of Carroll Co. Line LOGGED BY T. Wendel

SECTION (10, 11) RS-2 LOCATION Pleasant Valley Twp. - SE, SEC. 35, TWP. 26N, RNG. 4E

COUNTY JoDaviess DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	DEPTH	BLOW	UCS	MOIST
Station	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
4+85					89.8				
B-2j					89.5				
4+65									
10.50ft Rt CL					72.8				
99.8					72.8				
Asphalt 12"									
SOFT black CLAY LOAM			0.3	19					
			P						
					77.80				
STIFF brown/tan SILTY LOAM	96.80	4							
		4	1.2	22					
	95.30	5	P						
					75.30				
MEDIUM tan CLAY LOAM		1							
		2	0.6	25					
	92.80	3	B						
					72.80				
MEDIUM gray/tan SILTY LOAM		1							
		1	0.6	27					
	90.30	3	B						
					70.30				
MEDIUM black CLAY LOAM		2							
		3	1.0	30					
	87.80	5	P						
MEDIUM black/tan CLAY LOAM with ROCK		2							
		3	1.0	30					
	85.30	4	B						
HARD buff SANDY CLAY		5							
		10	4.7	16					
	82.30	12	S						
MEDIUM gray SHALE		20							
		12							
	80.30	11							

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)



SOIL BORING LOG

Page 1 of 1

ROUTE FA 642 DESCRIPTION P92-167-90 IL 78 culvert, 0.1 m. N. of Carroll County Line LOGGED BY T. Wendel

SECTION (10, 11) RS-2 LOCATION Pleasant Valley Twp. - SE, SEC. 35, TWP. 26N, RNG. 4E

COUNTY JoDaviess DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	DEPTH	BLOW	UCS	MOIST
Station	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
4+85					89.6				
B-1j					89.5				
5+06									
42.50ft Lt CL					79.6				
90.1					89.1				
MEDIUM brown/tan SANDY CLAY LOAM			0.8	28					
			P						
					68.60				
SOFT tan/brown SILTY CLAY	87.60	2							
		2	0.3	28					
	86.10	2	B						
SOFT orangish/tan SILTY CLAY with LIMESTONE fragments		3							
		2	0.3	33					
	83.60	4	P						
MEDIUM tan weathered LIMESTONE with SILTY CLAY in top 3"		7							
		12							
	81.10	14							
VERY STIFF green/gray SHALEY CLAY		11							
		12	2.6	16					
	78.60	13	B						
HARD gray SHALEY CLAY		13							
		12	4.5	19					
	75.60	14	B						
MEDIUM gray brittle SHALE		14							
		12							
	73.60	16							
DENSE gray SHALE		17							
		20							
	71.10	18							

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)

FILE NAME =	USER NAME = hensonke	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\FWIDOT\HENSONKE\dms33697\084707BOR.DGN	DRAWN -	REVISED -	642			(10,11)T	JO DAVIESS	283	100	
PLOT SCALE = 165.0000' / IN.	CHECKED -	REVISED -	CONTRACT NO. 64D07							
PLOT DATE = Wed Sep 03 10:24:04 2008	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
			SCALE:			SHEET NO. OF SHEETS	STA. TO STA.			