

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP 505 (IL 75)
SECTION (W-15D)T-2
PROJECT: ACF-0505(026)
BOX CULVERT REPLACEMENT
WINNEBAGO COUNTY
C-92-085-13

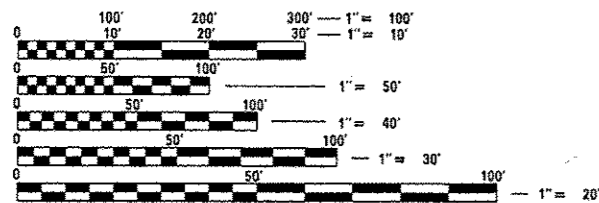
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	(W-15D)T-2	WINNEBAGO	41	1
		ILLINOIS	CONTRACT NO. 64H04	

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

HARRISON TOWNSHIP SECTION 20

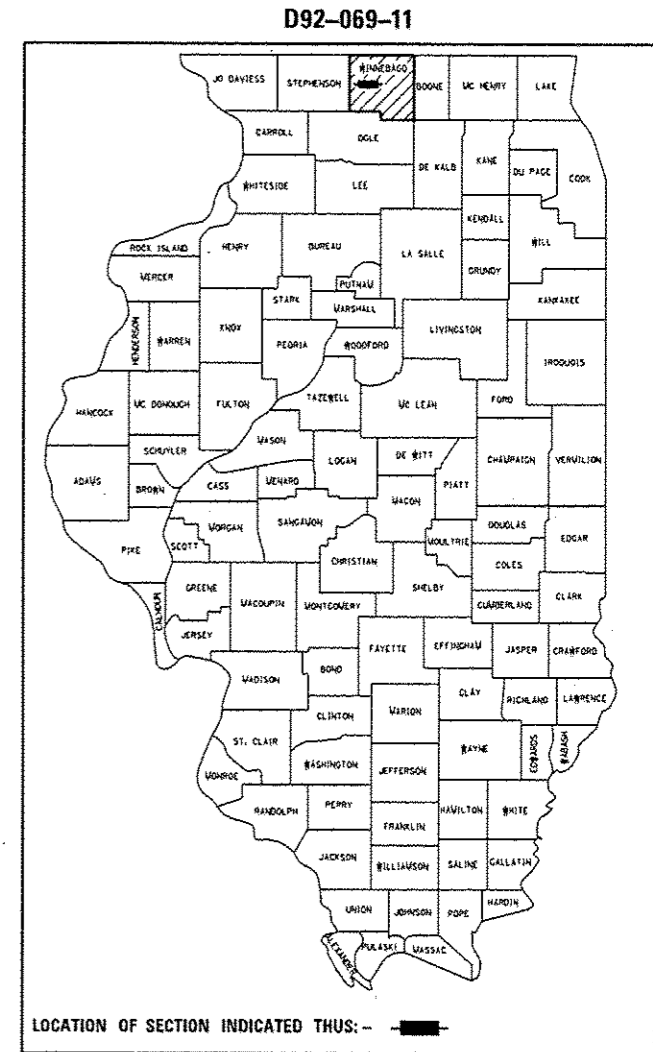
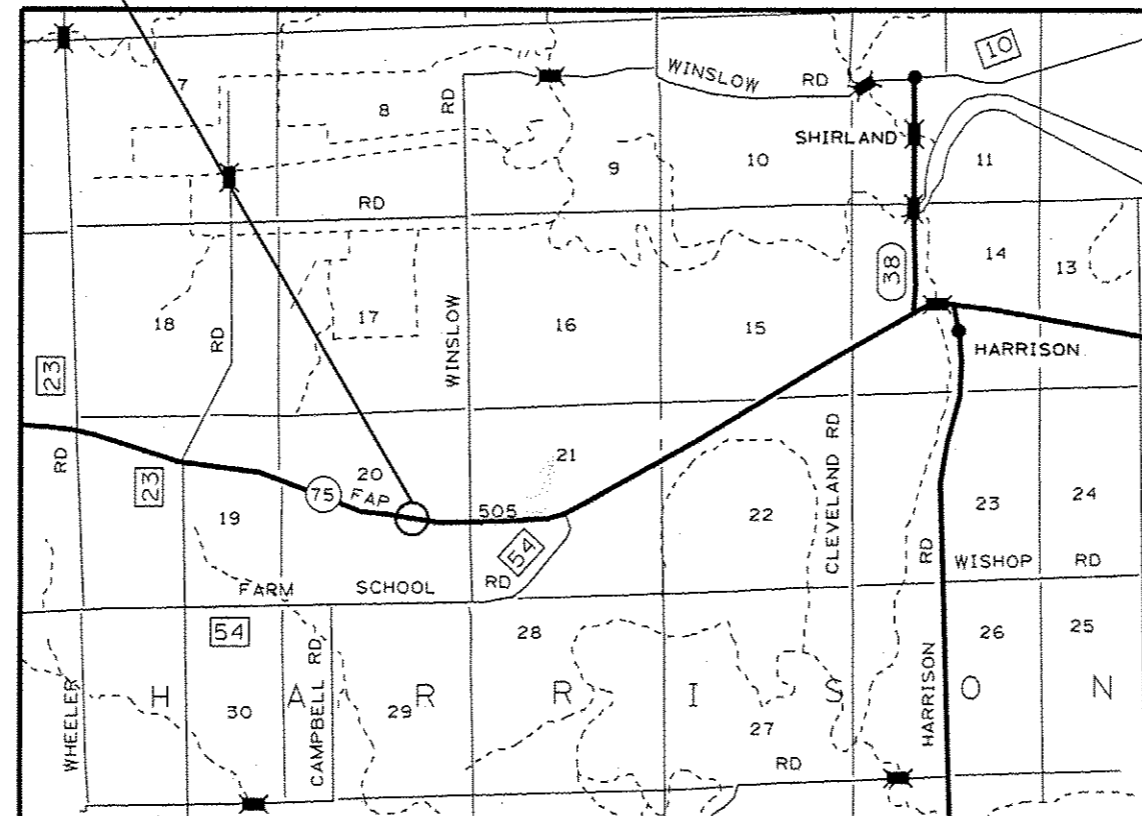
EXISTING SN 101-1039
PROPOSED SN 101-1236
STA 412+60.5
REMOVE EXISTING DOUBLE 3'X2.5' BOX CULVERT
AND CONSTRUCT 7'X4' BOX CULVERT

IMPROVEMENT BEGINS STA 409+32.5
IMPROVEMENT ENDS STA 415+67.5
PROJECT BEGINS STA 410+00
PROJECT ENDS STA 415+00



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

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



PROJECT ENGINEER: MASOOD AHMAD
SENIOR SQUAD LEADER: SAMEER ABDULLAH (815) 284-5935
STUDIES AND PLAN SQUAD ENGINEER: COREY CONDERMAN (815) 284-5936
CONTRACT NO. 64H04

GROSS LENGTH = 500 ft. = 0.09 MILE
NET LENGTH = 500 ft. = 0.09 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec 2 2013
Paul A. Lotten
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Jan 24 2014
John D. Baranzelli, P.E., B.C.
ENGINEER OF DESIGN AND ENVIRONMENT

Jan 24 2014
Omer Osman, P.E., B.C.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

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FILE NAME :	USER NAME : dxtalarso	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 75 INDEX OF SHEETS & STATE STANDARDS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE : Wed Oct 02 09:54:22 2013	DATE -	REVISED -		SHEET	OF	SHEETS	STA.	TO	STA.
ILLINOIS FED. AID PROJECT										

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	RURAL	
				80% FED 20% STATE 0004	80% FED 20% STATE 0040
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	96	96	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	71	71	
20200100	EARTH EXCAVATION	CU YD	1,767	1,767	
25000210	SEEDING, CLASS 2A	ACRE	1.00	1.00	
25000750	MOWING	ACRE	1.00	1.00	
25100125	MULCH, METHOD 3	ACRE	0.25	0.25	
25100630	EROSION CONTROL BLANKET	SQ YD	3,630	3,630	
25100900	TURF REINFORCEMENT MAT	SQ YD	72	72	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	150	150	
28000305	TEMPORARY DITCH CHECKS	FOOT	192	192	
28000400	PERIMETER EROSION BARRIER	FOOT	300	300	
28000500	INLET AND PIPE PROTECTION	EACH	1	1	
28100107	STONE RIPRAP, CLASS A4	SQ YD	67	67	
28200200	FILTER FABRIC	SQ YD	67	67	
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	932	932	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	86	86	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	260	260	
40600990	TEMPORARY RAMP	SQ YD	29	29	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	259	259	
44201383	CLASS C PATCHES, TYPE IV, 12 INCH	SQ YD	102	102	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	34	34	
48203020	HOT-MIX ASPHALT SHOULDERS, 5 3/4"	SQ YD	745	745	
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1

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© 1001-STATE (NP)

FILE NAME =	USER NAME = dxtleran	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 75 SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = Wed Oct 02 00:54:27 2013	DATE -	REVISED -			[ILLINOIS] FED. AID PROJECT CONTRACT NO. 64H04					

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	RURAL	
				80% FED 20% STATE 0004	80% FED 20% STATE 0040
51500100	NAME PLATES	EACH	1		1
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	1		1
54010704	PRECAST CONCRETE BOX CULVERTS 7' X 4'	FOOT	60		60
54215408	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 8"	EACH	1	1	
54215410	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 10"	EACH	1	1	
54215412	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 12"	EACH	1	1	
54260311	TRAVERSABLE PIPE GRATE	FOOT	172		172
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4	
60100915	PIPE DRAINS 6"	FOOT	20	20	
60100925	PIPE DRAINS 8"	FOOT	20	20	
60100935	PIPE DRAINS 10"	FOOT	20	20	
60100945	PIPE DRAINS 12"	FOOT	20	20	
60107600	PIPE UNDERDRAINS 4"	FOOT	70	70	
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	200	200	
61101009	STORM SEWERS PROTECTED, CLASS A, 8"	FOOT	50	50	
61101011	STORM SEWERS PROTECTED, CLASS A, 10"	FOOT	50	50	
61101013	STORM SEWERS PROTECTED, CLASS A, 12"	FOOT	50	50	
61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	2	2	
63500105	DELINEATORS	EACH	6	6	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	12	12	
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	1	1	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4	
67100100	MOBILIZATION	L SUM	1	1	

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SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	RURAL	
				80% FED 20% STATE 0004	80% FED 20% STATE 0040
70100200	TRAFFIC CONTROL AND PROTECTION, STANDARD 701331	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	311	311	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1,560	1,560	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	555	555	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3,030	3,030	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	10	10	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	163	163	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	9	9	
* A2005114	TREE, JUGLANS NIGRA (BLACK WALNUT), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	4	4	
* A2006714	TREE, QUERCUS MACROCARPA (BUR OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	10	10	
X0323660	DROP BOX NO. 1	EACH	1		1
X4400110	TEMPORARY PAVEMENT REMOVAL	SQ YD	368	368	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
* Z0054500	ROCK FILL	TON	181		181
Z0062456	TEMPORARY PAVEMENT	SQ YD	368	368	

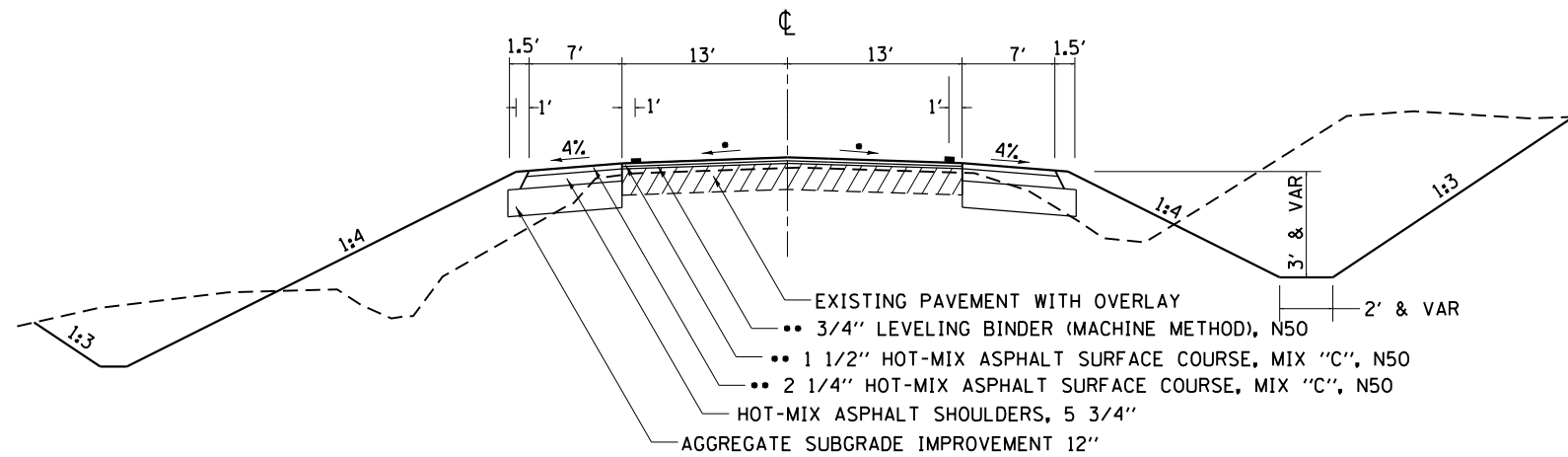
* SPECIALTY ITEM

FILE NAME =	USER NAME = dslalras	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 75 SUMMARY OF QUANTITIES	F.A.P. RTE. 505	SECTION (W-150)T-2	COUNTY WINNEBAGO	TOTAL SHEETS 41	SHEET NO. 5
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	Plot DATE = Wed Oct 02 09:54:29 2013	DATE -	REVISED -							

TYPICAL SECTION

STATION

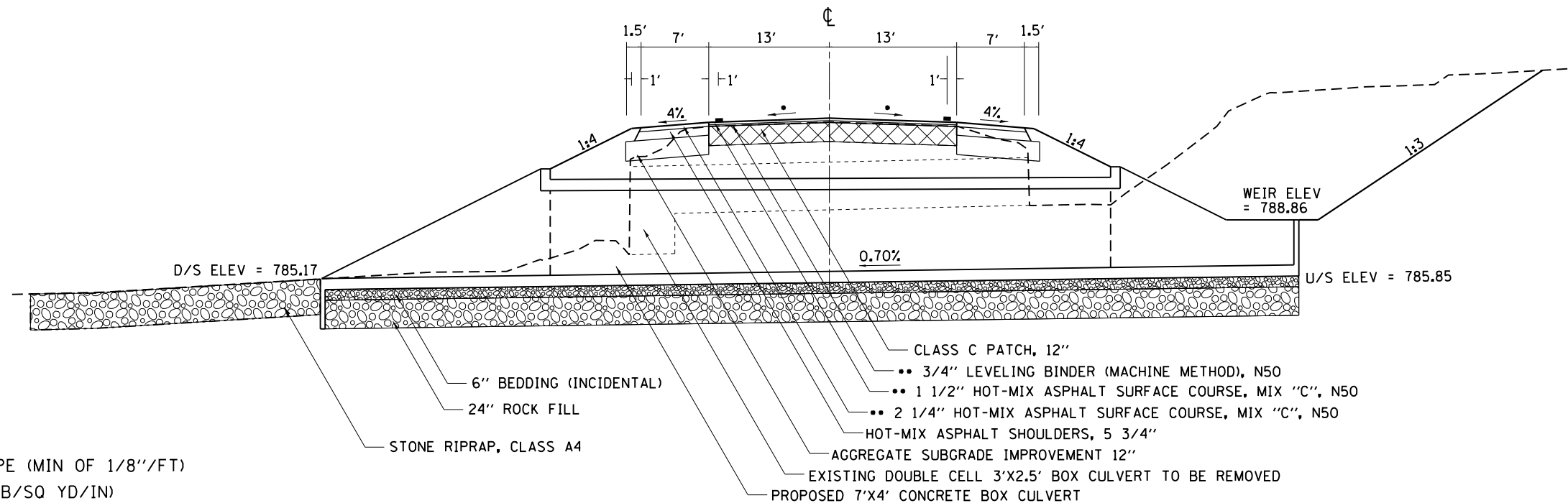
410 + 50 TO 414 + 50





TYPICAL SECTION

STATION

412 + 60.59



-  EXISTING PAVEMENT
-  PAVEMENT REMOVAL

- MATCH EXISTING CROSS SLOPE (MIN OF 1/8"/FT)
- RATE OF APPLICATION (112 LB/SQ YD/IN)

FILE NAME =	USER NAME = ditzlerse	DESIGNED -	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

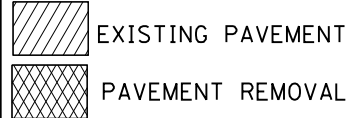
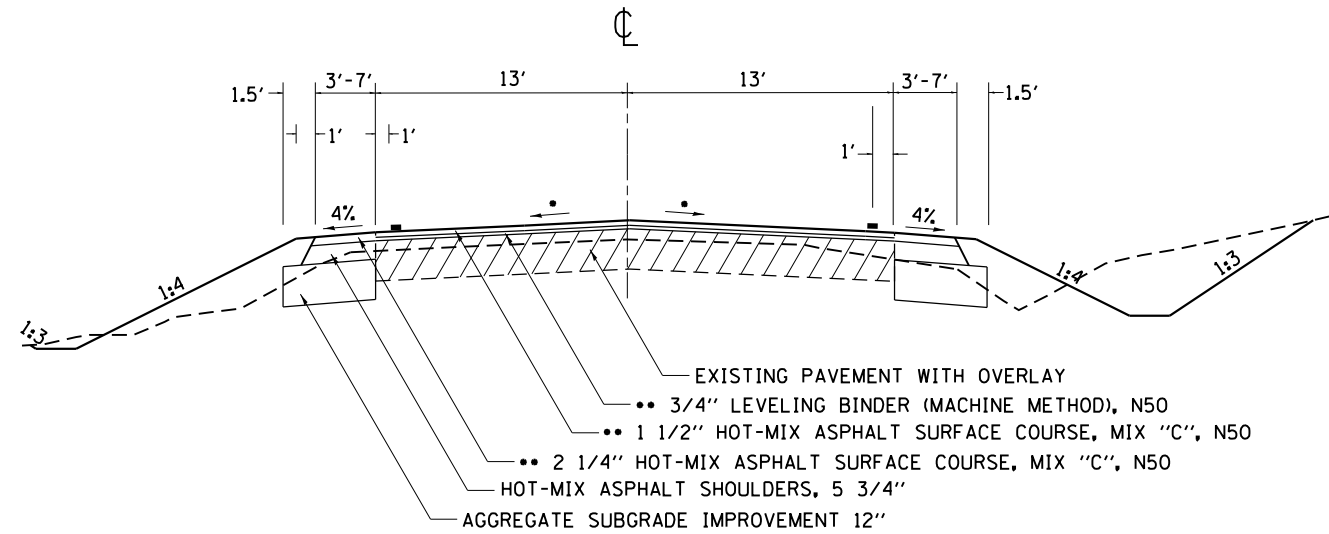
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	(W-15-D)T-2	WINNEBAGO	41	6
CONTRACT NO. 64H04				
ILLINOIS FED. AID PROJECT				

TYPICAL SECTION

STATION

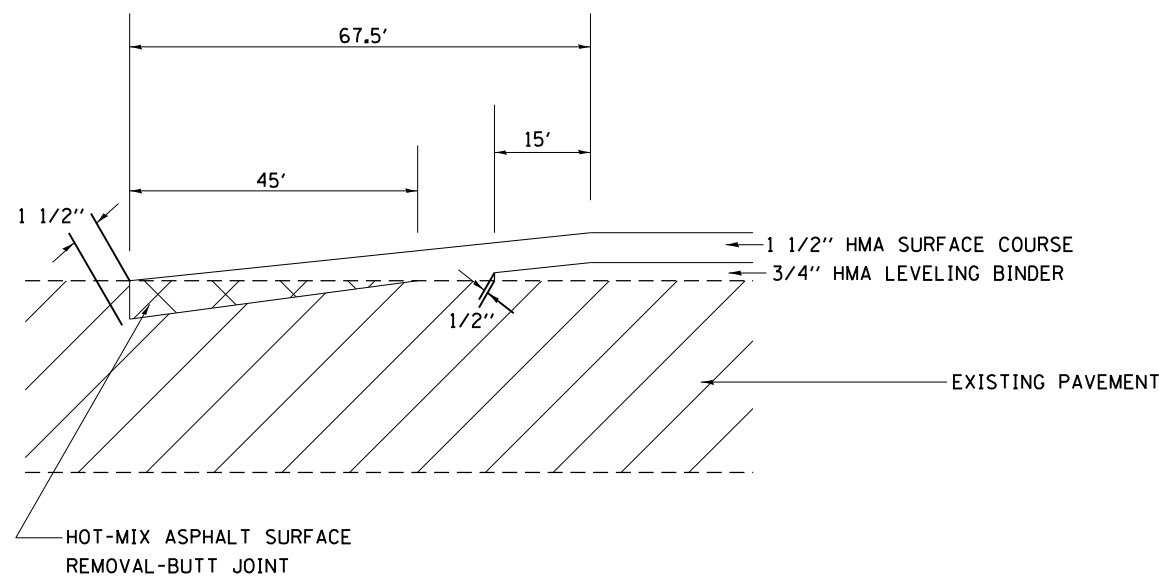
410 + 00 TO 410 + 50
414 + 50 TO 415 + 00



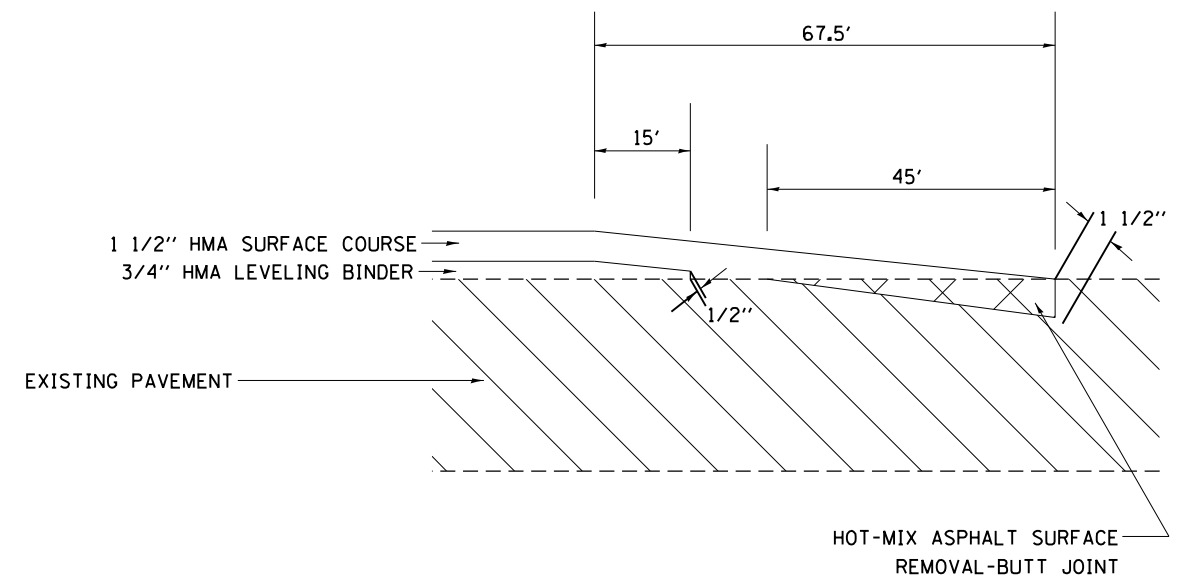
- MATCH EXISTING CROSS SLOPE (MIN OF 1/8"/FT)
- RATE OF APPLICATION (112 LB/SQ YD/IN)

TYPICAL BUTT JOINT TAPER

STATION
409 + 32.5 TO 410 + 00



STATION
415 + 00 TO 415 + 67.5



FILE NAME =	USER NAME = ditzlerse	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 64H04				
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

GENERAL NOTES

See cross sections for special ditches and backslopes.

The final top 4 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 2A shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1.

Fertilizer Nutrients shall be applied at the rate specified in Sections 250 and 252 of the Standard Specifications. This shall be included in the cost of the SEEDING or SODDING.

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. Impervious material shall be used on the outer 3 feet of each end of the culvert. 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.

All "Aggregate Subgrade Improvement" (Section 303), shall be completed in accordance with Articles 311.04, 311.05, 311.05(a), 311.06 and 311.07. All aggregate subgrade thicknesses equal to or less than 12 inches shall be constructed of aggregate of CA02 gradation. All aggregate subgrade thicknesses greater than 12 inches shall be constructed of CS02.

Class C Patches shall be tied to the adjacent lane when the patches are more than 20 feet. The cost of the tie bars shall be included in the cost of the patch.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Surface	Level Binder	Top Shoulder	Bottom Shoulder
PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22
Design Air Voids	4.0 @ N50	4.0 @ N50	3 @ N50	2 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or IL 9.5 FG	IL 9.5 FG*	IL 9.5 or IL 9.5 FG	BAM or IL 19.0
Friction Aggregate	C	N/A	C	N/A
20 Year ESAL	0.7	0.7	N/A	N/A

*On projects with less than 2,000 tons level binder, growth curve will be used for density and IL 9.5 may be used.

The Contractor will be required to furnish 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 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 on the next days productivity, but no more than five days in advance of the placement of the HMA, unless approved by the Engineer.

To help avoid excess drop offs at the edge of pavement, the existing aggregate wedge or shoulder is to be pulled up and rolled to match the edge of pavement before placing any bituminous material. All costs associated with pulling up the shoulders shall be considered included in the contract unit price per Ton for HOT-MIX ASPHALT SURFACE COURSE of the type specified.

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 LEVELING BINDER (MACHINE METHOD) of the type specified.

A Nationwide 404 Permit has been issued for this project and the conditions of that permit must be adhered to.

The new number for this structure will be 101-1236.

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.

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 6" for Pipe Drains and 8" for Storm Sewer, but the size must be at least 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.

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.

The Contractor shall be responsible for collecting and maintaining an electronic log of all stakeout survey that is performed on the job, either by him/her or any sub-contractor performing the stakeout. Upon request, all logs shall be submitted to the Department. No additional compensation will be allowed for this work, but shall be considered included in the cost for CONSTRUCTION LAYOUT.

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

1. All words, such as ONLY, shall be 8 feet high.
2. All non-freeway arrows shall be the large size.
3. The distance between yellow no-passing lines shall be 8 inches, not 7 inches, as shown in the detail of Typical Lane and Edge Lines.
4. Centerline Skip Dash Pavement Marking on multi-lane divided, multi-lane undivided, and one-way roadway shall be according to District Standard 41.1.

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

Permanent Survey Markers, Type II shall be cast-in-place as shown on District Standard 66.2. Option 2 would be to install a vaulted style, monumented as described by NGS as a 3D monument (Top Security Sleeve Rod Monument), with installation instructions provided by the District Chief of Surveys. If poured in place, the bottom of the marker shall be 5'-0" below the ground surface.

The Permanent Survey Markers, if possible, shall be installed at the beginning of the job and protected throughout.

FILE NAME = 64H04.GN.DOCX	USER NAME =	DESIGNED - Engineering Systems	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN -	REVISED -			FAP 505	(W-15d)T-2	Winnebago	41	8		
	PLOT SCALE =	CHECKED -	REVISED -			(IL 75)	CONTRACT NO. 64H04					
	PLOT DATE = 10/2/2013 9:13 AM	DATE - 4/3/2013 10:57 AM	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	ILLINOIS

GENERAL NOTES

The Contractor shall submit to the Engineer a description of location, elevation, and coordinates for each permanent survey marker. The horizontal coordinates must be derived by GPS and the elevation derived using an electronic level. The meta data, such as the Geoid used, (NGS adjustment ie: 97 HARN, 03, 07), and the base point(s) name or number shall be submitted along with a complete collection log. If collected using RTK method, it will require either 3 collections (averaged) from 2 different bases, or a minimum of 3 collections (averaged), at least 2 hours apart, from the same base. If using a CORS type network, the collection procedure shall include localizing with check shots on at least 2 different HARN monuments both before and after collection. The level circuit shall be run from furnished mark to furnished mark and then adjusted. The error of closure shall be submitted with the electronic level notes in a recognized format approved by the Engineer and/or the Chief of Surveys. The Engineer shall submit this information to the District Chief of Surveys.

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.

Excess trees that cannot be planted along the project limits shall be planted at alternative locations, as determined by the District Roadside Management Specialist.

Right-of-way markers will be erected per Highway Standard 666001 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 12 inches inside the new right-of-way line. Method of installation shall be approved by the Engineer.

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

Commonwealth Edison Co. (815/490-2869) Frontier (815/895-1515)
NICOR Gas Co. (630/983-8676)

IDOT is not a member of JULIE. If you are near any overhead lighting, intersection lighting or traffic signals, contact the IDOT Traffic Office at 815/284-5469 at least 48 hours prior to work.

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

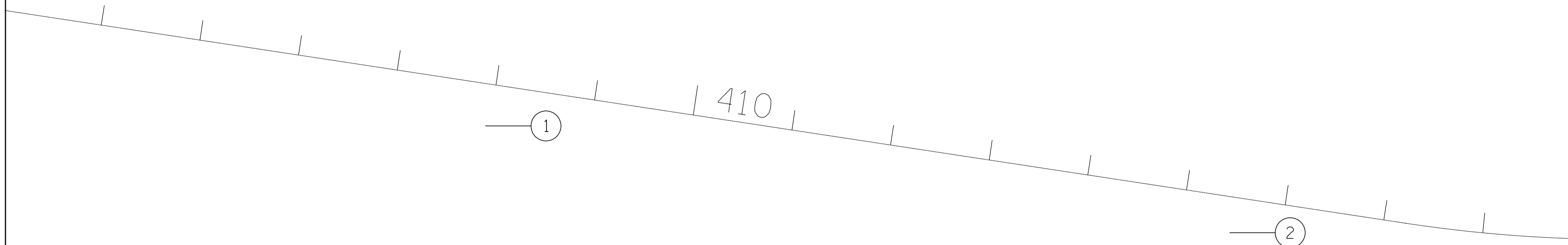
Per SB 699 (90 day utility relocation law), once right-of-way is clear to award the project, a notice will be sent to the utility companies instructing them to have their facilities relocated within 90 days. Estimated date relocation complete = Award Date + 100 days.

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

All hazards shall be alleviated within 10 calendar days, which includes only one weekend, or shall be protected with a longitudinal barrier wall and temporary impact attenuators at no cost to the Department. The barrier wall and temporary impact attenuators layout shall be approved by the Department prior to installation. The hazards include the Grated Culvert Extension, all grading, and shoulder widening. The Drop Box hazard shall be alleviated by having traffic staged as shown in Stage 5 in the plans.

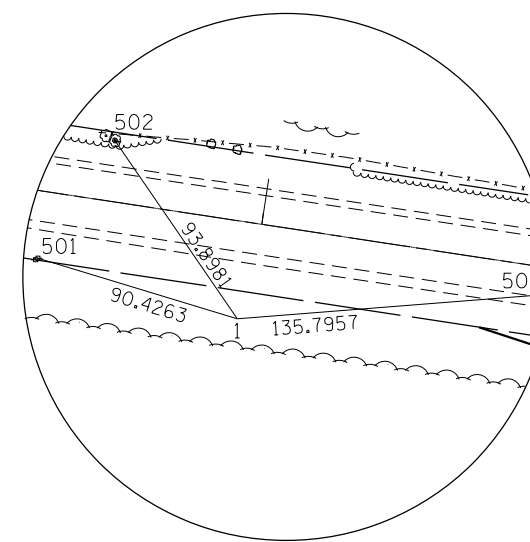
FILE NAME = 64H04.GN.DOCX	USER NAME =	DESIGNED - Engineering Systems	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		DRAWN -	REVISED -			FAP 505	(W-15d)T-2	Winnebago	41	9		
	PLOT SCALE =	CHECKED -	REVISED -			(IL 75)	CONTRACT NO. 64H04					
	PLOT DATE = 10/2/2013 9:14 AM	DATE - 4/3/2013 10:57 AM	REVISED -			SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	ILLINOIS

HORIZONTAL & VERTICAL CONTROL

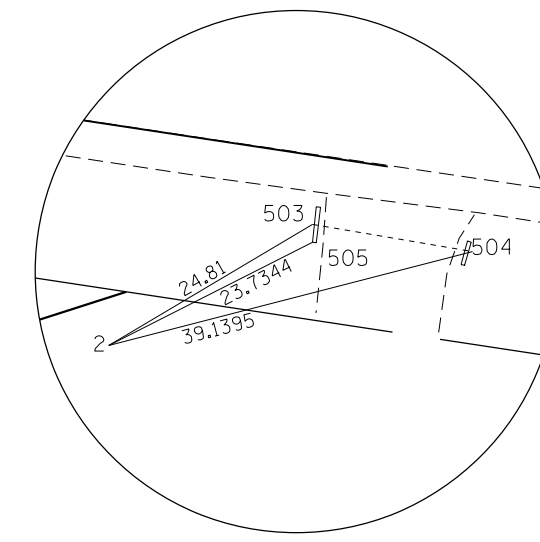


HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	2093902.2969	2544259.8262	795.5690	ALL_EXIL75	407+95.6708	42.1055' RT	GPS CONTROL POINT, PIN
2	2093795.4395	2545005.6212	794.4006	ALL_EXIL75	415+49.0559	35.8093' RT	GPS CONTROL POINT, PIN

REFERENCE TIES							
POINT	NORTH	EAST	CHAIN	STATION	OFFSET	DESCRIPTION	
500	2093912.8912	2544395.2080	ALL_EXIL75	409+27.9287	11.3106' RT	PAVEMENT STATION NUMBER	
501	2093928.5426	2544173.3496	ALL_EXIL75	407+06.2345	29.1372' RT	POWER POLE	
502	2093979.6841	2544206.6465	ALL_EXIL75	407+31.4779	26.4227' LT	TREE DECIDUOUS	
503	2093808.0290	2545026.9997	ALL_EXIL75	415+68.3025	20.1536' RT	HEADWALL, CORNER	
504	2093805.2146	2545043.5204	ALL_EXIL75	415+85.0585	20.4563' RT	PIPE CULVERT, END	
505	2093806.1855	2545026.8563	ALL_EXIL75	415+68.4375	21.9977' RT	PIPE CULVERT, END	



HORIZONTAL CONTROL & REF. TIES
POINT NO. 1 (NOT TO SCALE)



HORIZONTAL CONTROL & REF. TIES
POINT NO. 2 (NOT TO SCALE)

FILE NAME =	USER NAME = dtzlerse	DESIGNED -	REVISED -
ct:\pw\work\p\dot\dtzlerse\0277441\0206911-sh-t-HVC.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = Wed Oct 02 08:54:34 2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HORIZONTAL AND VERTICAL
CONTROL SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	(W-15D)T-2	WINNEBAGO	41	10
CONTRACT NO. 64H04				
ILLINOIS FED. AID PROJECT				

HORIZONTAL & VERTICAL CONTROL

Chain ALL_EXIL75 contains:

A1641 CUR A164200 CUR A164210 CUR A164220 CUR A164230 CUR A164240 CUR A164250 -
 CUR A164260 CUR A164270 CUR A164280 CUR A164290 CUR A164300 CUR A164310 CUR A16-
 4320 A1641230 CUR A1641250 CUR A164330 CUR A164340 CUR A164350 CUR A164360 CUR -
 A164370 CUR A164380 CUR A164390 CUR A1641200SEG_STV CUR A1641200SEG_WIN CUR A16-
 41210 A1641240 CUR 10206200 CUR 10206210 CUR 200 CUR 210 CUR 220 CUR 230 240 CU-
 R 250 CUR 260 CUR 270 CUR 280 CUR 290 CUR 300 CUR 310 CUR 320 CUR A01907230 CUR-
 A01907270 CUR A01907280 CUR A01907290 CUR A01907300 CUR A01907310 CUR A0190732-
 0 CUR A01907200 CUR A01907210 CUR A01907220 CUR 340 CUR 350 CUR 360 CUR A080200-
 CUR A080210 CUR A080220 370 CUR A0971280 CUR 380 390 CUR 1200 CUR 1210 CUR 122-
 0 A250

Beginning chain ALL_EXIL75 description

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Curve Data

Curve 260

P.I. Station 395+19.9434 N 2,094,135.8023 E 2,543,002.2928
 Delta = 17° 18' 02.2585" (LT)
 Degree = 5° 05' 10.3763"
 Tangent = 171.3778'
 Length = 340.1473'
 Radius = 1,126.4914'
 External = 12.9616'
 Long Chord = 338.8566'
 Mid. Ord. = 12.8142'
 P.C. Station 393+48.5656 N 2,094,210.7499 E 2,542,848.1721
 P.T. Station 396+88.7129 N 2,094,110.0786 E 2,543,171.7290
 C.C. N 2,095,223.8080 E 2,543,340.8142

Course from PT 260 to PC 270 98° 37' 57.5764" Dist 2,032.9803'

Curve Data

Curve 270

P.I. Station 418+82.6350 N 2,093,780.7733 E 2,545,340.7961
 Delta = 12° 49' 14.8983" (LT)
 Degree = 3° 59' 59.1404"
 Tangent = 160.9417'
 Length = 320.5393'
 Radius = 1,432.4800'
 External = 9.0127'
 Long Chord = 319.8709'
 Mid. Ord. = 8.9563'
 P.C. Station 417+21.6932 N 2,093,804.9305 E 2,545,181.6777
 P.T. Station 420+42.2325 N 2,093,792.5271 E 2,545,501.3080
 C.C. N 2,095,221.1819 E 2,545,396.6914

Ending chain ALL_EXIL75 description

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BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
401	2093928.0057	2544172.5141	796.3831	ALL_EXIL75	407+05.4890	29.7935' RT	POWER POLE
402	2093806.1746	2545026.7891	793.6146	ALL_EXIL75	415+68.3727	22.0186' RT	HEADWALL, CHISELED SQUARE
450	2093833.0734	2544727.0642	795.3357	ALL_EXIL75	412+68.0059	40.4129' RT	HEADWALL, CHISELED SQUARE

FILE NAME =	USER NAME = dtzlerse	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL AND VERTICAL CONTROL SHEET	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pwork\pwork\dtzlerse\0277441\0206911-sh-t-HVC.dgn		DRAWN -	REVISED -			505	(W-15D)T-2	WINNEBAGO	41	11	
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 64H04					
	PLOT DATE = Wed Oct 02 08:54:34 2013	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

SCHEDULE OF QUANTITIES

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

UNIT	LOCATION			
	IL 75			
9	Sta 409 + 91	29'	-	LT
14	Sta 410 + 42	32'	-	LT
6	Sta 411 + 31	31'	-	LT
7	Sta 411 + 31	31'	-	LT
10	Sta 411 + 31	31'	-	LT
8	Sta 411 + 31	31'	-	LT
11	Sta 412 + 02	34'	-	LT
15	Sta 412 + 58	34'	-	LT
8	Sta 412 + 58	34'	-	LT
8	Sta 412 + 58	34'	-	LT
96	TOTAL			

25000750 MOWING

ACRE	LOCATION			
	IL 75			
0.35	Sta 409 + 32.5 - 415 + 67.5			LT
0.40	Sta 409 + 32.5 - 415 + 67.5			RT
0.75	TOTAL			

28000250 TEMPORARY EROSION CONTROL SEEDING

POUND	LOCATION			
	IL 75			
70	Sta 409 + 32.5 - 415 + 67.5			LT
80	Sta 409 + 32.5 - 415 + 67.5			RT
150	TOTAL			

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

UNIT	LOCATION			
	IL 75			
21	Sta 409 + 85	29'	-	LT
17	Sta 411 + 22	30'	-	LT
17	Sta 411 + 95	34'	-	LT
16	Sta 412 + 58	34'	-	LT
71	TOTAL			

25100125 MULCH METHOD 3

ACRE	LOCATION			
	IL 75			
0.25	As Needed & Directed by Resident (Apply in Field Areas that is now Proposed R. O. W.)			
0.25	TOTAL			

28000305 TEMPORARY DITCH CHECKS

FOOT	LOCATION			
	IL 75			
16	Sta 410 + 25			LT
16	Sta 411 + 00			LT
16	Sta 411 + 50			LT
16	Sta 412 + 00			LT
16	Sta 412 + 50			LT
16	Sta 410 + 50			RT
16	Sta 411 + 50			RT
16	Sta 412 + 00			RT
16	Sta 412 + 50			RT
16	Sta 412 + 75			RT
16	Sta 413 + 75			RT
16	Sta 414 + 75			RT
192	TOTAL			

25100630 EROSION CONTROL BLANKET

SQ YD	LOCATION			
	IL 75			
1,694	Sta 409 + 32.5 - 415 + 67.5			LT
1,936	Sta 409 + 32.5 - 415 + 67.5			RT
3,630	TOTAL			

25000210 SEEDING, CLASS 2A

ACRE	LOCATION			
	IL 75			
0.50	Sta 409 + 32.5 - 415 + 67.5			LT
0.50	Sta 409 + 32.5 - 415 + 67.5			RT
1.00	TOTAL			

25100900 TURF REINFORCEMENT MAT

SQ YD	LOCATION			
	IL 75			
71.1	Sta 412 + 60.5			RT (Around Drop Box)
71.1	TOTAL			

28000400 PERIMETER EROSION BARRIER

FOOT	LOCATION			
	IL 75			
300	Sta 412 + 60.5 - 415 + 50			LT
300	TOTAL			

SCHEDULE OF QUANTITIES

28000500 INLET AND PIPE PROTECTION

<u>EACH</u>	<u>LOCATION</u>
	IL 75
1	Sta 412 + 60.5 RT
1	TOTAL

28100107 STONE RIPRAP, CLASS A4

<u>SQ YD</u>	<u>LOCATION</u>
	IL 75
67	Sta 412 + 60.5 LT (20' x 30')
67	TOTAL

28200200 FILTER FABRIC

<u>SQ YD</u>	<u>LOCATION</u>
	IL 75
67	Sta 412 + 60.5 LT (20' x 30')
67	TOTAL

30300112 AGGREGATE SUBGRADE IMPROVEMENT 12"

<u>SQ YD</u>	<u>LOCATION</u>
	IL 75
465.9	Sta 410 + 00 - 415 + 00 LT
465.9	Sta 410 + 00 - 415 + 00 RT
931.8	TOTAL

40600990 TEMPORARY RAMP

<u>SQ YD</u>	<u>LOCATION</u>
	IL 75
14.4	Sta 409 + 32.5 (26' x 5')
14.4	Sta 415 + 67.5 (26' x 5')
28.8	TOTAL

44201383 CLASS C PATCHES, TYPE IV, 12 INCH

<u>SQ YD</u>	<u>LOCATION</u>
	IL 75
101.1	Sta 412 + 43 - 412 + 78 (35' x 26')
101.1	TOTAL

48102100 AGGREGATE WEDGE SHOULDER, TYPE B

<u>TON</u>	<u>LOCATION</u>
	IL 75
6	Sta 409 + 32.5 - 410 + 00 LT
6	Sta 409 + 32.5 - 410 + 00 RT
6	Sta 415 + 00 - 415 + 67.5 LT
6	Sta 415 + 00 - 415 + 67.5 RT
10	As Needed & Directed by Resident (Place Around Temporary Pavement)
34	TOTAL

50100300 REMOVAL OF EXISTING STRUCTURES NO. 1

<u>EACH</u>	<u>LOCATION</u>
	IL 75
1	Sta 412 + 60.5 (Double Cell 3'x2.5')
1	TOTAL

51500100 NAME PLATES

<u>EACH</u>	<u>LOCATION</u>
	IL 75
1	Sta 412 + 60.5
1	TOTAL

54001001 BOX CULVERT END SECTIONS, CULVERT NO. 1

<u>EACH</u>	<u>LOCATION</u>
	IL 75
1	Sta 412 + 60.5 LT
1	TOTAL

54010704 PRECAST CONCRETE BOX CULVERT 7' X 4'

<u>FOOT</u>	<u>LOCATION</u>
	IL 75
60	Sta 412 + 60.5
60	TOTAL

54215408 CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 8"

<u>EACH</u>	<u>LOCATION</u>
	IL 75
1	As Needed & Directed by the Resident
1	TOTAL

54215410 CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 10"

<u>EACH</u>	<u>LOCATION</u>
	IL 75
1	As Needed & Directed by the Resident
1	TOTAL

SCHEDULE OF QUANTITIES

54215412 CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 12"

<u>EACH</u>	<u>LOCATION</u>
	IL 75
1	As Needed & Directed by the Resident
1	TOTAL

60100925 PIPE DRAINS 8"

<u>FOOT</u>	<u>LOCATION</u>
	IL 75
20	As Needed & Directed by the Resident
20	TOTAL

61100500 EXPLORATION TRENCH 52" DEPTH

<u>FOOT</u>	<u>LOCATION</u>
	IL 75
200	As Needed & Directed by the Resident
200	TOTAL

54260311 TRAVERSABLE PIPE GRATE

<u>FOOT</u>	<u>LOCATION</u>
	IL 75
96	Sta 412 + 60.5 LT
76	Sta 412 + 60.5 RT
172	TOTAL

60100935 PIPE DRAINS 10"

<u>FOOT</u>	<u>LOCATION</u>
	IL 75
20	As Needed & Directed by the Resident
20	TOTAL

61101009 STORM SEWERS PROTECTED, CLASS A, 8"

<u>FOOT</u>	<u>LOCATION</u>
	IL 75
50	As Needed & Directed by the Resident
50	TOTAL

60100060 CONCRETE HEADWALLS FOR PIPE DRAINS

<u>EACH</u>	<u>LOCATION</u>
	IL 75
1	Sta 412 + 43 LT
1	Sta 412 + 43 RT
1	Sta 412 + 78 LT
1	Sta 412 + 78 RT
1	TOTAL

60100945 PIPE DRAINS 12"

<u>FOOT</u>	<u>LOCATION</u>
	IL 75
20	As Needed & Directed by the Resident
20	TOTAL

61101011 STORM SEWERS PROTECTED, CLASS A, 10"

<u>FOOT</u>	<u>LOCATION</u>
	IL 75
50	As Needed & Directed by the Resident
50	TOTAL

60100915 PIPE DRAINS 6"

<u>FOOT</u>	<u>LOCATION</u>
	IL 75
20	As Needed & Directed by the Resident
20	TOTAL

60107600 PIPE UNDERDRAINS 4"

<u>FOOT</u>	<u>LOCATION</u>
	IL 75
35	Sta 412 + 43
35	Sta 412 + 78
70	TOTAL

61101013 STORM SEWERS PROTECTED, CLASS A, 12"

<u>FOOT</u>	<u>LOCATION</u>
	IL 75
50	As Needed & Directed by the Resident
50	TOTAL

SCHEDULE OF QUANTITIES

61133200 FIELD TILE JUNCTION VAULTS, 3' DIA.

<u>EACH</u>	<u>LOCATION</u>
	IL 75
2	As Needed & Directed by the Resident
2	TOTAL

63500105 DELINEATORS

<u>EACH</u>	<u>LOCATION</u>
	IL 75
1	Sta 412 + 43 LT
1	Sta 412 + 43 RT
1	Sta 412 + 60.5 LT
1	Sta 412 + 60.5 RT
1	Sta 412 + 78 LT
1	Sta 412 + 78 RT
6	TOTAL

66600105 FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

<u>EACH</u>	<u>LOCATION</u>
	IL 75
1	Sta 409 + 00 30' - RT
1	Sta 409 + 50 30' - LT
1	Sta 410 + 50 50' - LT
1	Sta 410 + 50 55' - RT
1	Sta 412 + 00 65' - LT
1	Sta 412 + 25 95' - LT
1	Sta 413 + 00 95' - LT
1	Sta 413 + 25 50' - LT
1	Sta 414 + 50 45' - LT
1	Sta 415 + 00 55' - RT
1	Sta 415 + 50 30' - LT
1	Sta 415 + 50 30' - RT
12	TOTAL

66700305 PERMANENT SURVEY MARKER, TYPE II

<u>EACH</u>	<u>LOCATION</u>
	IL 75
1	As Directed by the Resident & Chief of Surveys
1	TOTAL

70300100 SHORT TERM PAVEMENT MARKING

<u>FOOT</u>	<u>LOCATION</u>	
		(3 Applications - Prime, LB, Surf)
	IL 75	
60	Sta 410 + 00 - 415 + 00	White LT - Shoulder Diagonal Stripe
60	Sta 410 + 00 - 415 + 00	RT - Shoulder Diagonal Stripe
120	White Total	
	IL 75	
191	Sta 409 + 32.5 - 415 + 67.5	Yellow Centerline - Skip Dash
191	Yellow Total	
311	TOTAL	

SCHEDULE OF QUANTITIES

70300220 TEMPORARY PAVEMENT MARKING – LINE 4"

<u>FOOT</u>	<u>LOCATION</u>			
	IL 75			White
390	Sta 410 + 65 – 414 + 55			Stage 5 – LT EOP
390	Sta 410 + 65 – 414 + 55			Stage 5 – RT EOP
780	White Total			
	IL 75			Yellow
780	Sta 410 + 65 – 414 + 55			Stage 5 – Centerline Double Yellow
780	Yellow Total			
1,560	TOTAL			

78001110 PAINT PAVEMENT MARKING – LINE 4"

<u>FOOT</u>	<u>LOCATION</u>			
	IL 75			(2 Applications of Paint) White
1,345	Sta 409 + 32.5 – 416 + 05			LT – EOP
1,345	Sta 409 + 32.5 – 416 + 05			RT – EOP
2,690	White Total			
	IL 75			Yellow
340	Sta 409 + 32.5 – 416 + 05			Centerline – Skip Dash
340	Yellow Total			
3,030	TOTAL			

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

<u>SQ FT</u>	<u>LOCATION</u>			
	IL 75			White
7	Sta 410 + 00 – 415 + 00			LT – Shoulder Diagonal Stripe
7	Sta 410 + 00 – 415 + 00			RT – Shoulder Diagonal Stripe
130	Sta 410 + 65 – 414 + 55			Stage 5 – LT EOP
130	Sta 410 + 65 – 414 + 55			Stage 5 – RT EOP
273	White Total			
	IL 75			Yellow
21	Sta 409 + 32.5 – 415 + 67.5			Centerline – Skip Dash
260	Sta 410 + 65 – 414 + 55			Stage 5 – Centerline Double Yellow
281	Yellow Total			
555	TOTAL			

78100100 RAISED REFLECTIVE PAVEMENT MARKER

<u>EACH</u>	<u>LOCATION</u>			
	IL 75			
10	Sta 409 + 32.5 – 415 + 67.5			Two-way Amber 80' o.c.
10	TOTAL			

78300100 PAVEMENT MARKING REMOVAL

<u>SQ FT</u>	<u>LOCATION</u>			
	IL 75			
130	Sta 410 + 65 – 414 + 55			Stage 5 – LT EOP
33	Sta 410 + 65 – 414 + 55			Stage 5 – Centerline Skip Dash
163	TOTAL			

SCHEDULE OF QUANTITIES

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

<u>EACH</u>	<u>LOCATION</u>
	IL 75
9	Sta 409 + 32.5 - 415 + 67.5
9	TOTAL

A2005114 TREE, JUGLANS NIGRA (BLACK WALNUT), 1-3/4" CALIPER, BALLED AND BURLAPPED

<u>EACH</u>	<u>LOCATION</u>
	IL 75
4	As Directed by the District Roadside Management Specialist
4	TOTAL

A2006714 TREE, QUERCUS MACROCARPA (BUR OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED

<u>EACH</u>	<u>LOCATION</u>
	IL 75
10	As Directed by the District Roadside Management Specialist
10	TOTAL

X0323660 DROP BOX NO. 1

<u>EACH</u>	<u>LOCATION</u>
	IL 75
1	Sta 412 + 60.5 RT
1	TOTAL

X4400110 TEMPORARY PAVEMENT REMOVAL

<u>SQ YD</u>	<u>LOCATION</u>
	IL 75
133.3	Sta 411 + 10 - 414 + 10 LT
133.3	Sta 411 + 10 - 414 + 10 RT
101.1	Sta 412 + 43 - 412 + 78 Patch Area
367.7	TOTAL

Z0054500 ROCK FILL

<u>TON</u>	<u>LOCATION</u>
	IL 75
180.4	Sta 412 + 60.5 (Depth = 24")
180.4	TOTAL

Z0062456 TEMPORARY PAVEMENT

<u>SQ YD</u>	<u>LOCATION</u>
	IL 75
133.3	Sta 411 + 10 - 414 + 10 LT
133.3	Sta 411 + 10 - 414 + 10 RT
101.1	Sta 412 + 43 - 412 + 78 Patch Area
367.7	TOTAL

HOT-MIX ASPHALT SCHEDULE

Location	Remarks	Length	Proposed Surface		*Bituminous* Materials (Prime Coat) 2 Applications	**Aggregate** (Prime Coat)	40600982 Hot-Mix Asphalt Surface Removal – Butt Joint	40600625 ***Leveling Binder*** (Machine Method), N50	40603310 ***Hot-Mix Asphalt*** Surface Course, Mix "C", N50	48203020 Hot-Mix Asphalt Shoulders, 5 3/4"
			Width	Sq Yd	Ton	Ton	Sq Yd	Ton	Ton	Sq Yd
IL 75 – Mainline										
Sta 409 + 32.5 – 410 + 00	Butt Joint	67.5	26	195.0	0.11	0.29	130.0	2.4	16.4	
Sta 410 + 00 – 415 + 00		500	26	1,444.4	0.82	2.17		80.9	121.3	
Sta 415 + 00 – 415 + 67.5	Butt Joint	67.5	26	195.0	0.11	0.29	130.0	2.4	16.4	
IL 75 – Shoulders LT										
Sta 410 + 00 – 410 + 50	Taper	50	3' – 7'	30.6	0.05				4.3	30.6
Sta 410 + 50 – 414 + 50		400	7'	311.1	0.53				43.6	311.1
Sta 414 + 50 – 415 + 00	Taper	50	7' – 3'	30.6	0.05				4.3	30.6
IL 75 – Shoulders RT										
Sta 410 + 00 – 410 + 50	Taper	50	3' – 7'	30.6	0.05				4.3	30.6
Sta 410 + 50 – 414 + 50		400	7'	311.1	0.53				43.6	311.1
Sta 414 + 50 – 415 + 00	Taper	50	7' – 3'	30.6	0.05				4.3	30.6
TOTAL					2.33	2.75	260.0	85.8	258.3	744.4

* Bit Prime Coat Rate of Application = 0.000286 Tons / Sq Yd on HMA & 0.00143 Tons / Sq Yd on Aggregate

** Agg Prime Coat Rate of Application = 0.0015 Tons / Sq Yd

*** Hot-Mix Asphalt Rate of Application = 112 Lbs / Sq Yd / in

EARTHWORK SCHEDULE

EARTHWORK SCHEDULE						20200100
LOCATION	EARTH	EARTH	EMBANK	EARTH WORK	EARTH	
	EXC	EXC ADJ		BALANCE		EXCAVATION
	(CUT)	SHRINK		WASTE (+)		
	25%	(FILL)	SHORTAGE (-)			
	CU YD	CU YD	CU YD	CU YD	CU YD	
IL 75						
409 + 50 - 414 + 00	1527	1145	350	795	1527	
414 + 00 - 415 + 50	240	180	91	89	240	
TOTAL	1767	1325	441	884	1767	

LAURA ZIGGLER

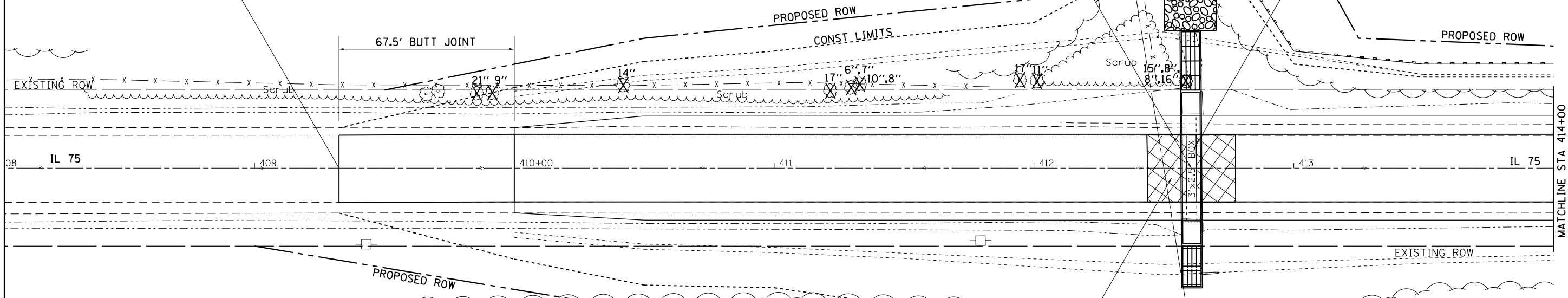
ROBERT E. AND SUSAN K. KINNEY

PROPOSED STRUCTURE (SN 101-1236)
 STA 412+60.5 30'LT to 30'RT
 60" PRECAST CONCRETE BOX CULVERT 7'X4'
 1 EACH BOX CULVERT END SECTION NO. 1
 1 EACH DROP BOX NO. 1
 U/S ELEV. = 785.85
 D/S ELEV. = 785.17

STONE RIPRAP, CLASS A4

REMOVE EXISTING CULVERT (SN 101-1039)
 STA 412+60.5
 41' DOUBLE CELL 3'X2.5' BOX CULVERT

IMPROVEMENT BEGINS
 STA 409+32.5



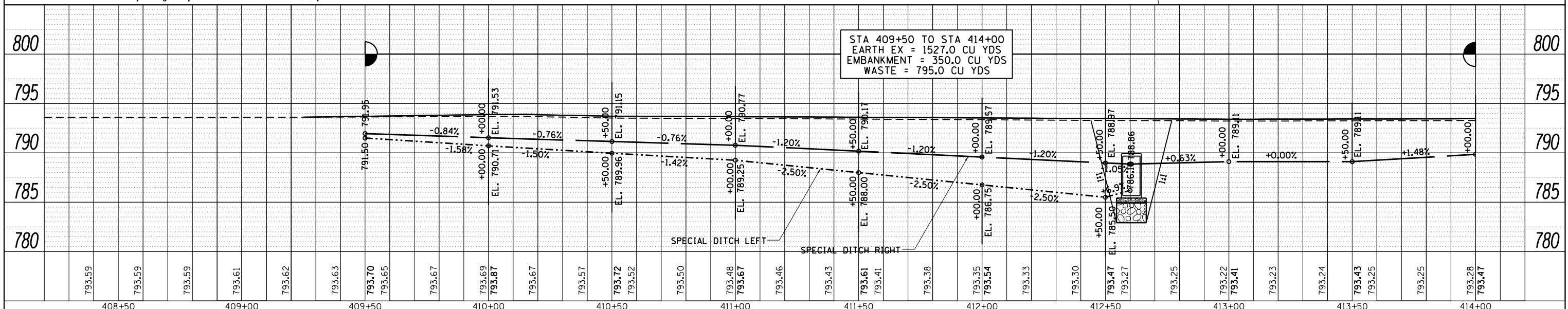
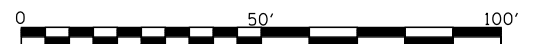
Drainage Area = 55.0		acres	
Existing Low Grade Elevation:	791.95	ft.	409 + 63
Proposed Low Grade Elevation:	791.95	ft.	409 + 63
Flood	Frequency	Discharge	Headwater Elev. (ft)
	Year	cfs	Existing Proposed
OVT (Existing)	2	77	791.95 -
Ten-Year	10	114	- 790.34
Design	50	166	- 790.83
Base	100	193	- 791.51
OVT (Proposed)	143	208	- 791.95

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

CLASS C PATCH, TYPE IV, 12 INCH
 STA 412+43.5 TO 412+77.5

JAMES AND SHIRLEY SWEET,
 TRUSTEES

PAVEMENT REMOVAL
 TREE REMOVAL



STA 409+50 TO STA 414+00
 EARTH EX = 1527.0 CU YDS
 EMBANKMENT = 350.0 CU YDS
 WASTE = 795.0 CU YDS

FILE NAME =	USER NAME = dtz1erse	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		IL 75 PLAN & PROFILE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
Default	PLOT DATE = Wed Oct 02 08:55:07 2013	DRAWN -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	505	(W-15D)T-2	WINNEBAGO
												CONTRACT NO. 64H04			
												ILLINOIS FED. AID PROJECT			

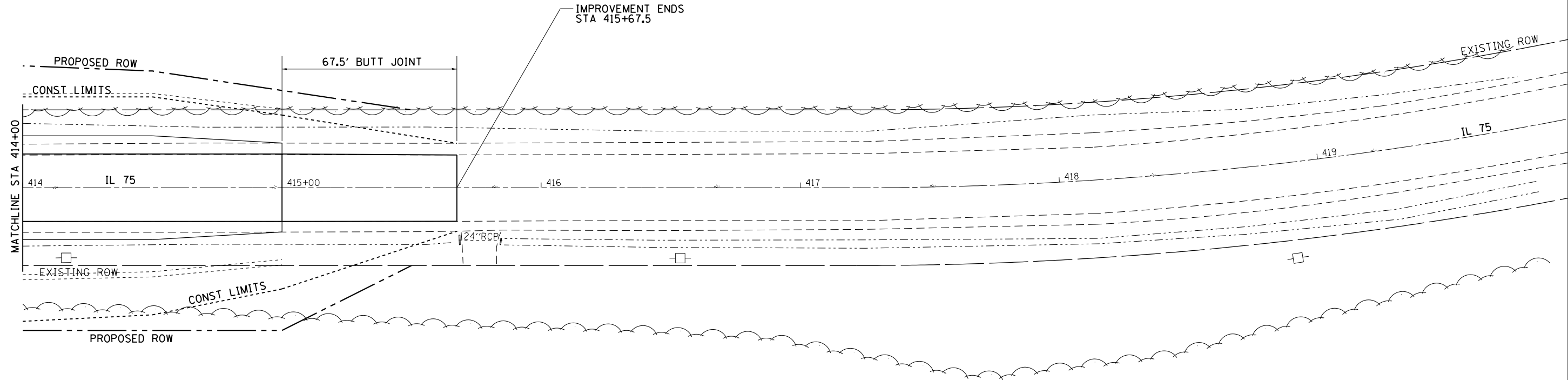
PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	



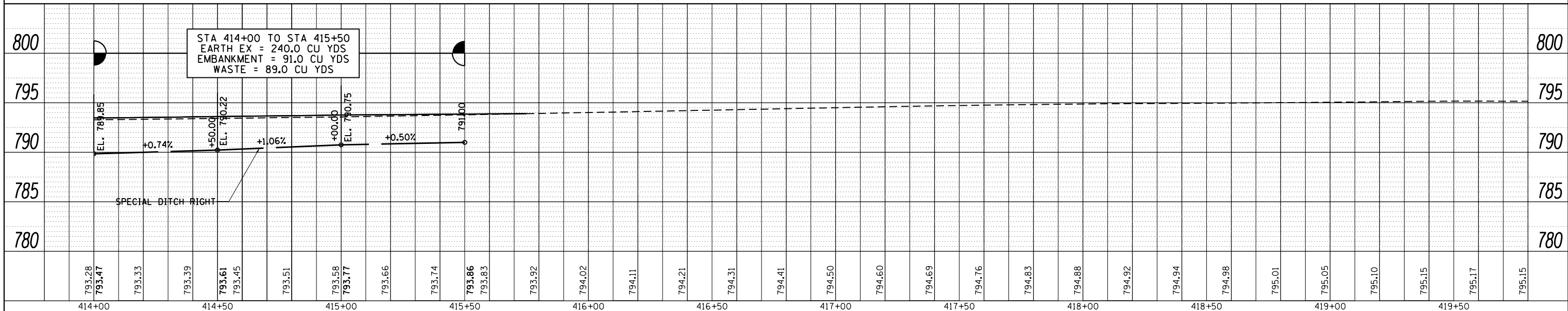
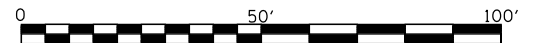
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NOTE BOOK NO.	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	



JAMES AND SHIRLEY SWEET,
TRUSTEES

- PAVEMENT REMOVAL
- TREE REMOVAL



FILE NAME =	USER NAME = ditzlerse	DESIGNED -	REVISIED -
c:\pwork\pwork\dot\ditzlerse\d0277441\0206911-sht-plan.dgn		DRAWN -	REVISIED -
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISIED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

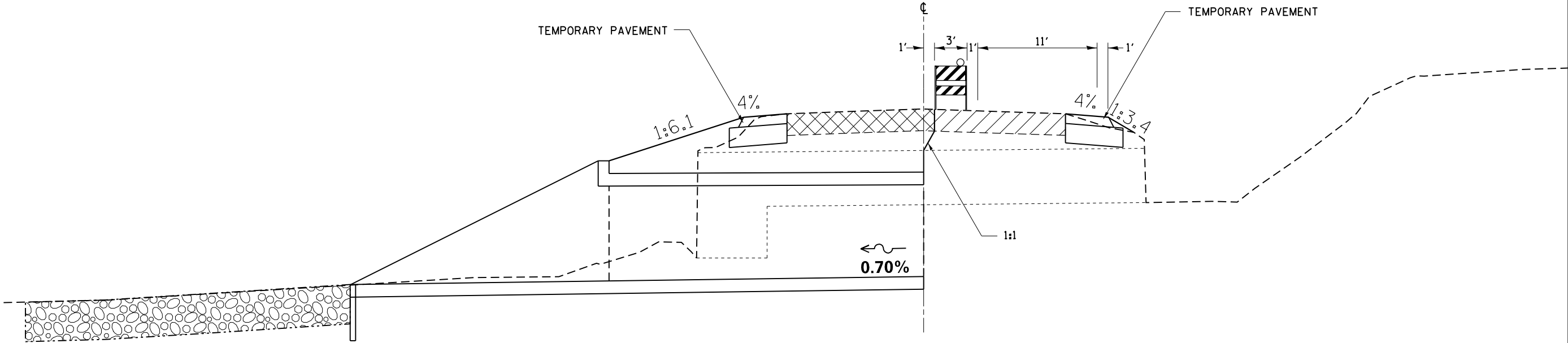
IL 75 PLAN & PROFILE

SCALE: SHEET OF SHEETS STA. TO STA.



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	(W-15D)T-2	WINNEBAGO	41	21
CONTRACT NO. 64H04				
ILLINOIS FED. AID PROJECT				

STAGING TYPICAL

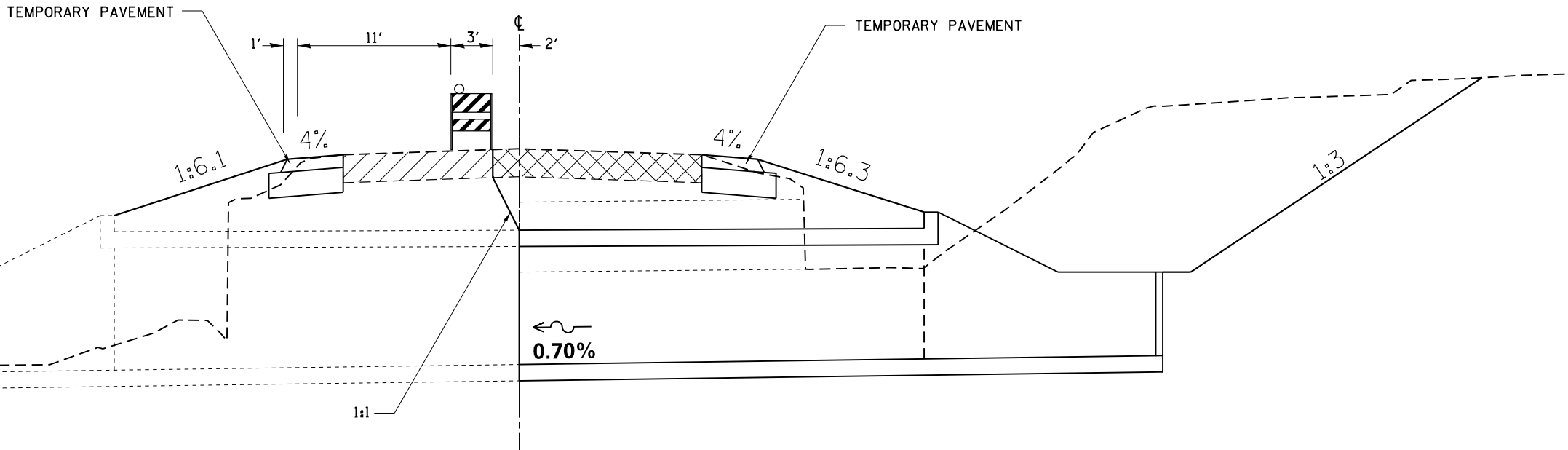
STATION 412 + 60.5
STAGE 1



STATION 412 + 60.5
STAGE 2

-  EXISTING PAVEMENT
-  PAVEMENT REMOVAL

- MATCH EXISTING CROSS SLOPE (MIN OF 1/8"/FT)
- RATE OF APPLICATION (112 LB/SQ YD/IN)



FILE NAME =	USER NAME = ditzlerse	DESIGNED -	REVISED -
c:\pwwork\pwwork\ditzlerse\0277441\0206911-sh-t-typical.dgn		DRAWN -	REVISED -
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	PLOT DATE = Wed Oct 02 08:55:11 2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGING PLANS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	(W-15D)T-2	WINNEBAGO	41	22
CONTRACT NO. 64H04				
ILLINOIS FED. AID PROJECT				

STAGING

PRE-STAGE

1. SETUP & USE TRAFFIC CONTROL & PROTECTION 701326
2. PLACE THE AGGREGATE SUBGRADE IMPROVEMENT 12"
3. CONSTRUCT THE TEMPORARY PAVEMENT
4. DRESS UP THE SLOPES AND DITCHES

STAGE 1

1. SETUP & USE TRAFFIC CONTROL & PROTECTION 701201
2. REMOVE PAVEMENT & SHOULDERS FROM STA 412+43 TO STA 412+78 LT
3. REMOVE PART OF EXISTING CULVERT
4. PLACE ROCK FILL, PRECAST BOX CULVERT, END SECTION AND BACKFILL
5. CONSTRUCT TEMPORARY PATCH, USING TEMPORARY PAVEMENT

STAGE 2

1. UTILIZING TRAFFIC CONTROL & PROTECTION 701201
2. REMOVE PAVEMENT & SHOULDERS FROM STA 412+43 TO STA 412+78 RT
3. REMOVE REMAINDER OF EXISTING CULVERT
4. PLACE ROCK FILL, PRECAST BOX CULVERT AND BACKFILL
5. CONSTRUCT TEMPORARY PATCH, USING TEMPORARY PAVEMENT

STAGE 3

1. UTILIZING TRAFFIC CONTROL & PROTECTION 701201
2. REMOVE TEMPORARY PATCH
3. CONSTRUCT THE CLASS C PATCH

STAGE 4

1. UTILIZING TRAFFIC CONTROL & PROTECTION 701201
2. REMOVE TEMPORARY PAVEMENT
3. PLACE AGGREGATE SUBGRADE IMPROVEMENT 12"
4. CONSTRUCT THE HOT-MIX ASPHALT SHOULDERS, 5 3/4"
5. DRESS UP THE SLOPES AND DITCHES
6. PLACE GRATED END SECTION

NOTE: ANY SHOULDER WORK WHICH RESULTS IN A DROP-OFF GREATER THAN 12" SHALL BE COMPLETED WITHIN 48 HOURS. AT NO TIME WILL A DROP-OFF GREATER THAN 18" BE ALLOWED WITHIN 3 FEET OF AN OPEN LANE OF TRAFFIC.

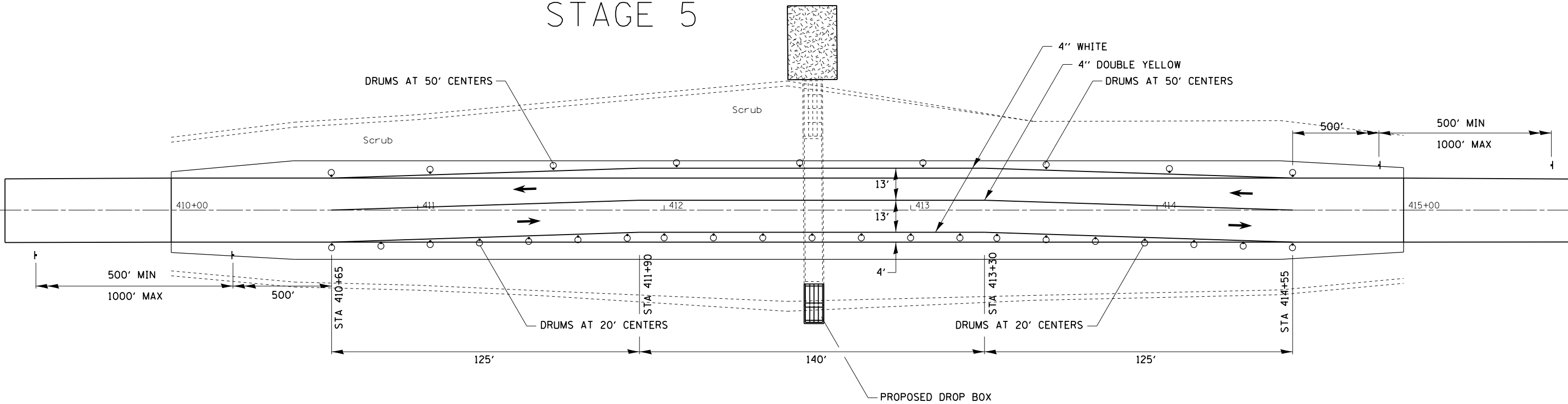
STAGE 5

1. SETUP & USE TRAFFIC CONTROL & PROTECTION 701331 & AS SHOWN IN THE STAGING PLAN
2. CONSTRUCT DROP BOX
3. DRESS UP THE SLOPES AND DITCHES
4. REMOVE TRAFFIC CONTROL FOR STAGING

STAGE 6

1. COMPLETE PAVING WORK
2. COMPLETE FINAL GRADING AND SHAPING WITH SEEDING

STAGE 5



USING STANDARD 701331

FILE NAME =	USER NAME = ditzlerse	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

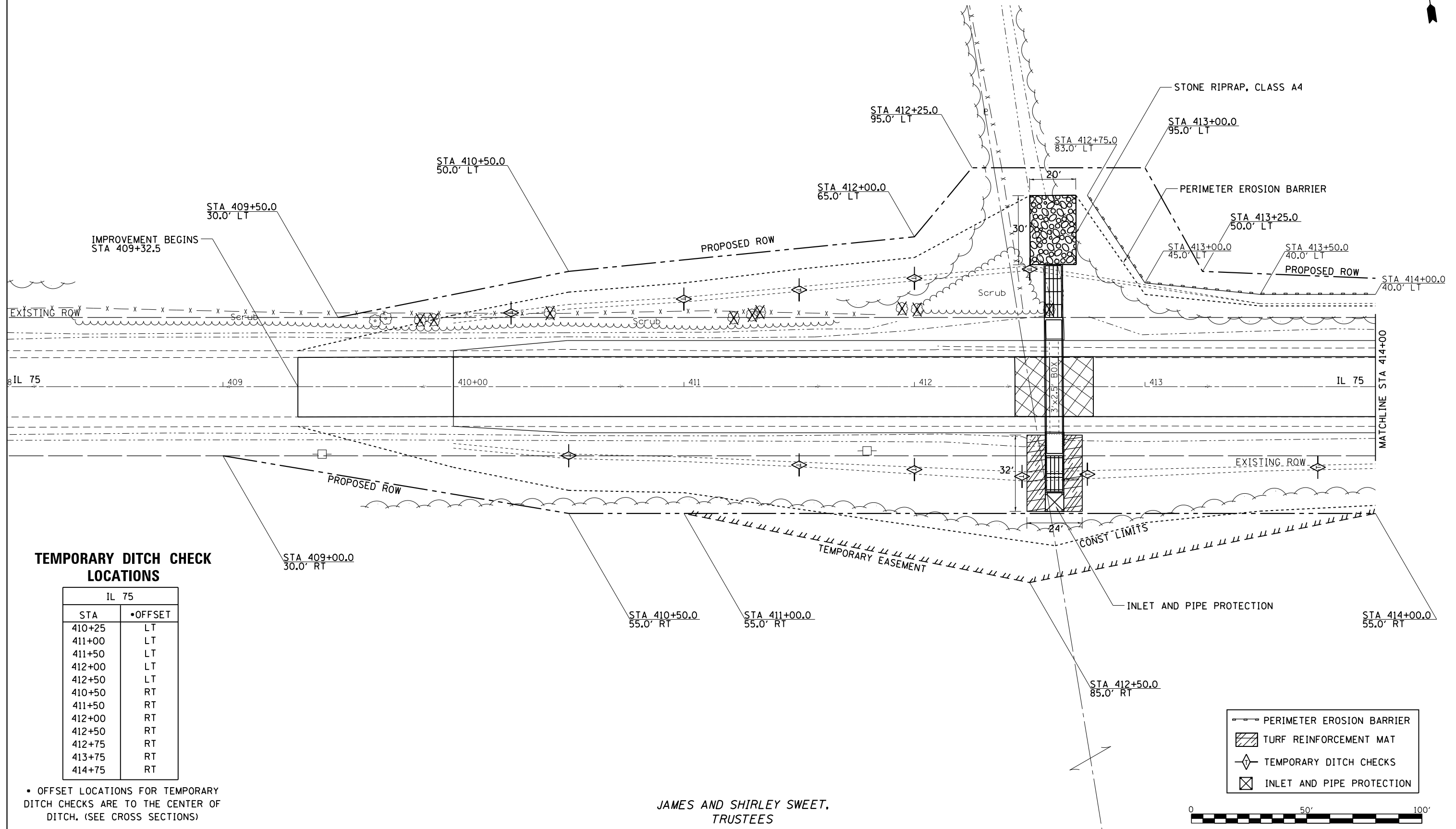
STAGING PLANS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	(W-15D)T-2	WINNEBAGO	41	23
CONTRACT NO. 64H04				
ILLINOIS FED. AID PROJECT				

EROSION CONTROL & R.O.W. DETAILS

LAURA ZIGGLER

ROBERT E. AND SUSAN K. KINNEY



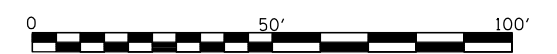
TEMPORARY DITCH CHECK LOCATIONS

IL 75	
STA	•OFFSET
410+25	LT
411+00	LT
411+50	LT
412+00	LT
412+50	LT
410+50	RT
411+50	RT
412+00	RT
412+50	RT
412+75	RT
413+75	RT
414+75	RT

• OFFSET LOCATIONS FOR TEMPORARY DITCH CHECKS ARE TO THE CENTER OF DITCH. (SEE CROSS SECTIONS)

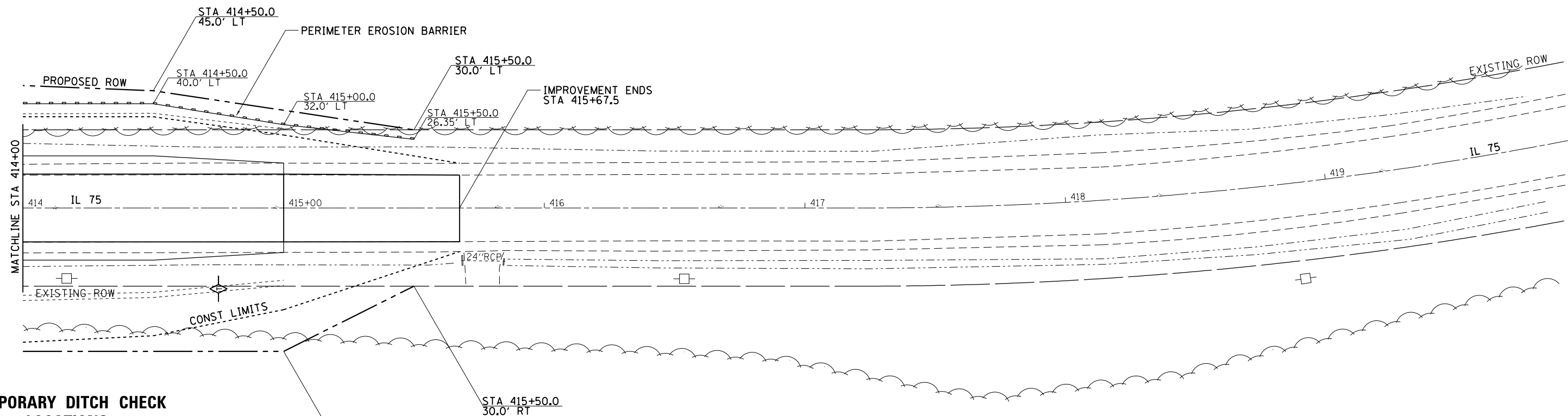
JAMES AND SHIRLEY SWEET,
TRUSTEES

- PERIMETER EROSION BARRIER
- TURF REINFORCEMENT MAT
- TEMPORARY DITCH CHECKS
- INLET AND PIPE PROTECTION



EROSION CONTROL & R.O.W. DETAILS

ROBERT E. AND SUSAN K. KINNEY



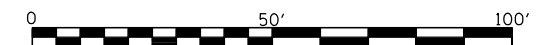
TEMPORARY DITCH CHECK LOCATIONS

IL 75	
STA	•OFFSET
410+25	LT
411+00	LT
411+50	LT
412+00	LT
412+50	LT
410+50	RT
411+50	RT
412+00	RT
412+50	RT
412+75	RT
413+75	RT
414+75	RT

• OFFSET LOCATIONS FOR TEMPORARY DITCH CHECKS ARE TO THE CENTER OF DITCH. (SEE CROSS SECTIONS)

JAMES AND SHIRLEY SWEET,
TRUSTEES

	PERIMETER EROSION BARRIER
	TURF REINFORCEMENT MAT
	TEMPORARY DITCH CHECKS
	INLET AND PIPE PROTECTION



FILE NAME =	USER NAME = ditzlerse	DESIGNED -	REVISED -
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Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL & R.O.W. DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	(W-15D)T2	WINNEBAGO	41	25
CONTRACT NO. 64H04				
ILLINOIS FED. AID PROJECT				

BORING LOGS



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1
Date 6/11/12

ROUTE FAP 505 DESCRIPTION 101-1039 P92-069-11 IL 75 Box Culvert, .2 m. W. of Winslow Road LOGGED BY W. Garza


SECTION (W-15D) T-2 LOCATION Harrison Twp. - 20SE, SEC. , TWP. 28N, RNG. 11E

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

STRUCT. NO. Station	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. _____ ft	D E P T H	B L O W S	U C S	M O I S T	Description	Elev. (ft)	D E P T H	B L O W S	U C S	M O I S T
101-1039 412+61										Stream Bed Elev. <u>95.8</u> ft					
B-1 412+70										Groundwater Elev.:					
11.00ft Rt CL										First Encounter <u>77.9</u> ft ▼					
99.9 ft										Upon Completion <u>77.9</u> ft ▼					
										After _____ Hrs.					
14" Asphalt										DENSE tan moist fine SAND (continued)	78.90	16			
											97.90	18			
STIFF brown SILTY LOAM		2									96.40	9			
		3	1.0	31						DENSE tan clean medium coarse SAND	76.40	17			
		4	P									14			
STIFF light brown SILTY CLAY LOAM		1								MEDIUM tan fine SAND Wash	73.90	7			
		2	1.1	27								12			
		4	B							End of Boring		16			
STIFF light brown SILTY CLAY LOAM		2													
		3	1.2	25											
		5	B												
SOFT tan SILT with fine SAND lens		2													
		4	0.3	24											
		5	B												
LOOSE tan dirty SAND GRAVEL		12													
		4													
		3													
SOFT tan TILL		2													
		3	0.4	13											
		6	B												
STIFF tan TILL		4													
		5	1.2	11											
		9	B												
DENSE tan moist fine SAND		19													

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

BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1
Date 6/11/12

ROUTE FAP 505 DESCRIPTION 101-1039 P92-069-11 IL 75 Box Culvert, .2 m. W. of Winslow Road LOGGED BY W. Garza

SECTION (W-15D) T-2 LOCATION Harrison Twp. - 20SE, SEC. , TWP. 28N, RNG. 11E

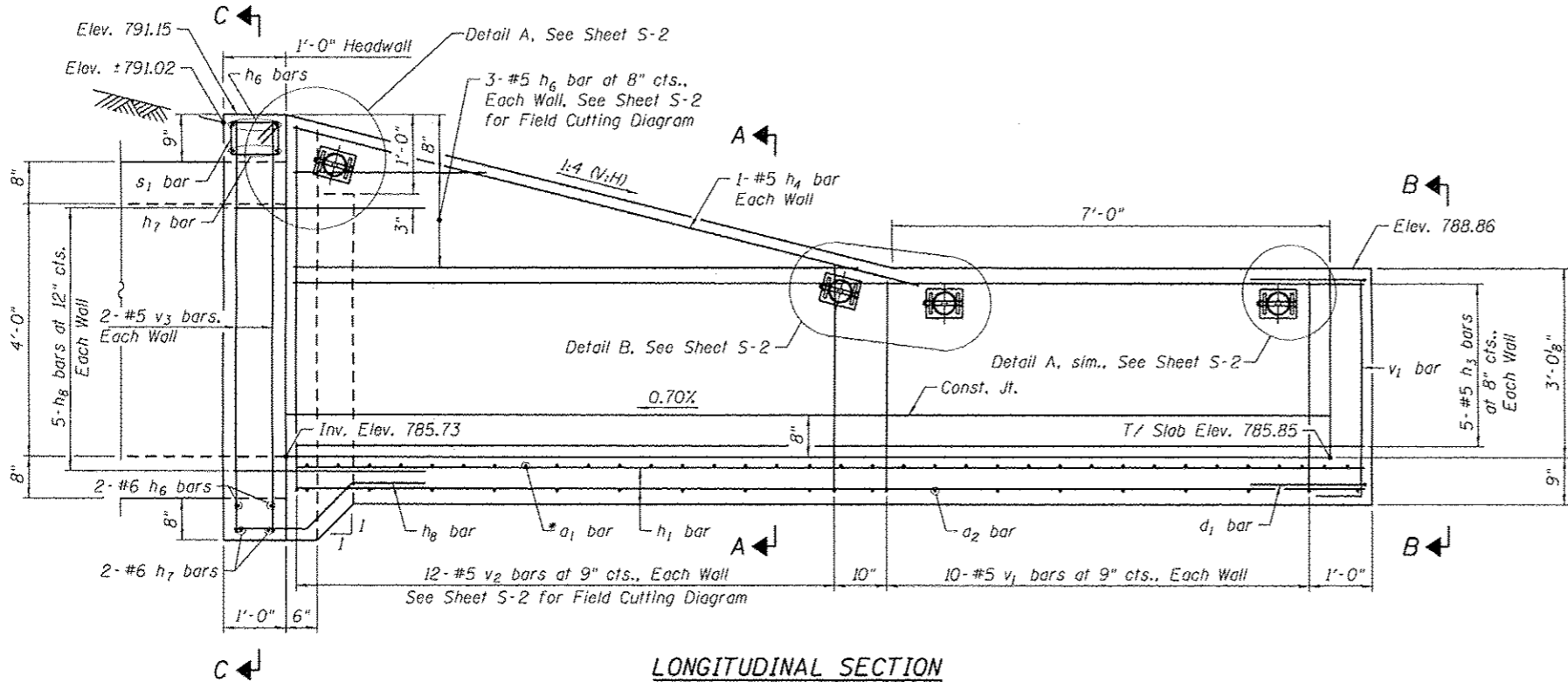
COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45 Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. _____ ft	D E P T H	B L O W S	U C S	M O I S T	Description	Elev. (ft)	D E P T H	B L O W S	U C S	M O I S T
101-1039 412+61										Stream Bed Elev. <u>95.8</u> ft					
B-2 412+51										Groundwater Elev.:					
11.00ft Rt CL										First Encounter <u>77.9</u> ft ▼					
99.9 ft										Upon Completion <u>74.9</u> ft ▼					
										After _____ Hrs.					
14" Asphalt										MEDIUM tan fine moist SAND (continued)	78.90	10			
											97.90	14			
MEDIUM light brown SILTY LOAM		2									96.40	3			
		1	0.5	28						MEDIUM tan fine SAND	76.40	8			
		5	P									11			
STIFF light brown SILTY CLAY LOAM		1								MEDIUM tan fine SAND	73.90	5			
		3	1.7	27								6			
		5	B									8			
STIFF light brown SILTY CLAY LOAM		3													
		4	1.2	26						MEDIUM tan fine SAND Wash	70.90	3			
		6	B									8			
VERY SOFT tan SILTY LOAM		2													
		2	0.2	29											
		4	P												
DENSE tan dirty SAND GRAVEL		14													
		18													
		16													
LOOSE tan dirty SAND GRAVEL		7													
		3													
		5													
STIFF tan TILL		4													
		6	1.0	11											
		8	S												
MEDIUM tan fine moist SAND		6													

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 = dtzlerse	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS	F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	et:\pw\work\p\dot\dtzlerse\027744\1\0206911-sht-log.dgn	DRAWN -	REVISED -			505	(W-15D)T-2	WINNEBAGO	41	26
	PLOT SCALE = 125.0000' / in.	CHECKED -	REVISED -						CONTRACT NO. 64H04	
Default	PLOT DATE = Wed Oct 02 08:55:25 2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
ILLINOIS FED. AID PROJECT										



LONGITUDINAL SECTION

GENERAL NOTES:

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60.
2. All exposed concrete edges shall be chamfered $\frac{3}{4}$ " unless otherwise noted.
3. All construction joints shall be bonded.
4. The contract unit price "Each" for Drop Box No. 1 shall include the Concrete Structures, Reinforcement Bars, earth excavation where required, backfilling and necessary grading to fit the structure as shown, or to the slope.
5. Contractor shall field verify galvanized pipe length.
6. The minimum distance from the center of a hole to the free edge of a structural shape or plate shall be $1\frac{1}{2}$ " unless noted otherwise.
7. This work shall be done according to the applicable portions of 501, 503, 505, 508, and 540 of the Standard Specifications.

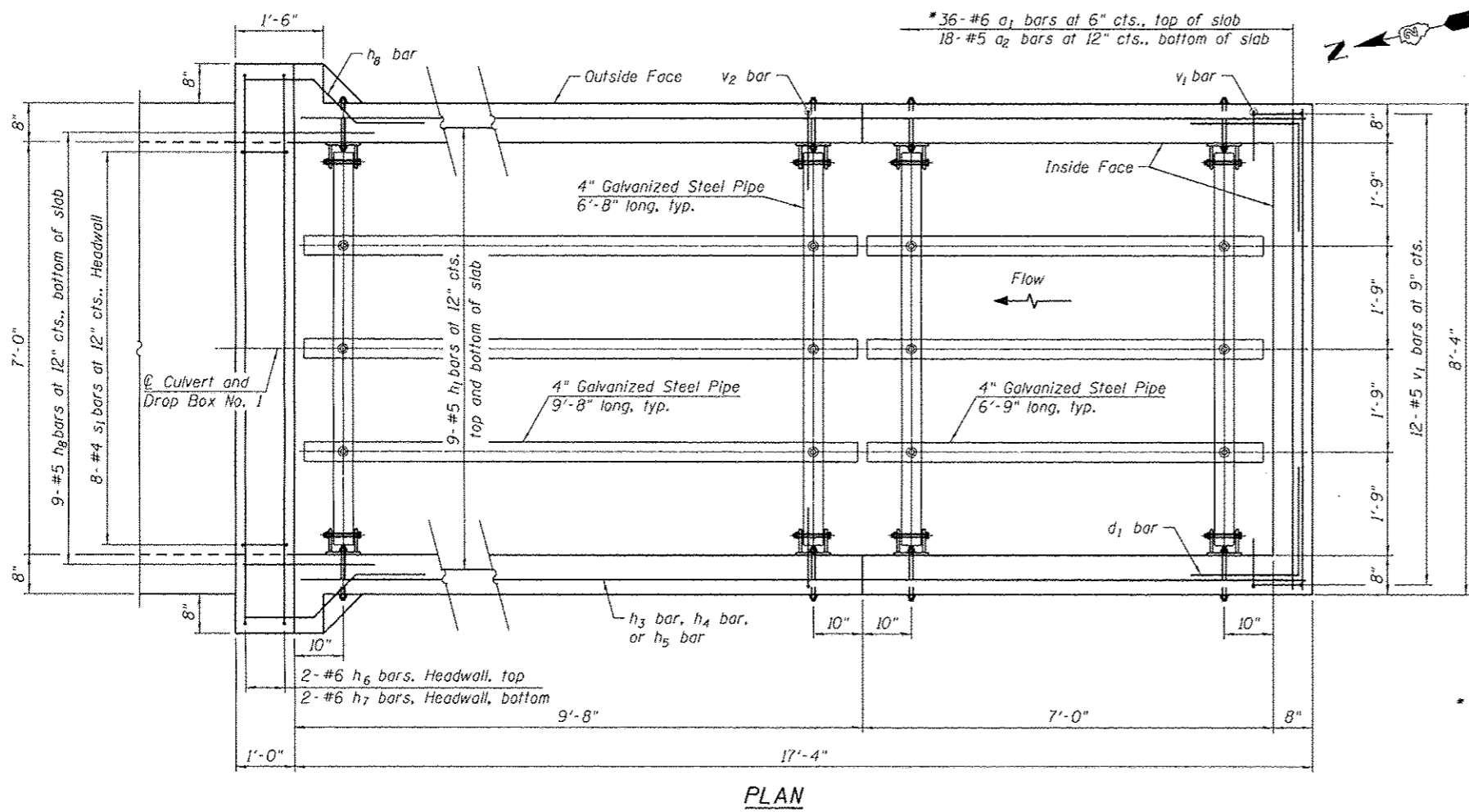
DESIGN STRESSES
FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
* Traversable Pipe Grate	Foot	76
Drop Box No. 1	Each	1

* Indicates Special Provision



PLAN



Brian J. Malone, DATE 9-18-2013
EXPIRES: 11-30-2014
SHEETS: S-1 thru S-2

* Tilt #6 a1 and #6 h6 bars as required to maintain clearance.

PLAN AND ELEVATION
DROP BOX NO. 1 RT
STATION 412+60.50

9/18/2013 3:17:26 PM I:\2008-64H04-S11-01-DE701.dgn



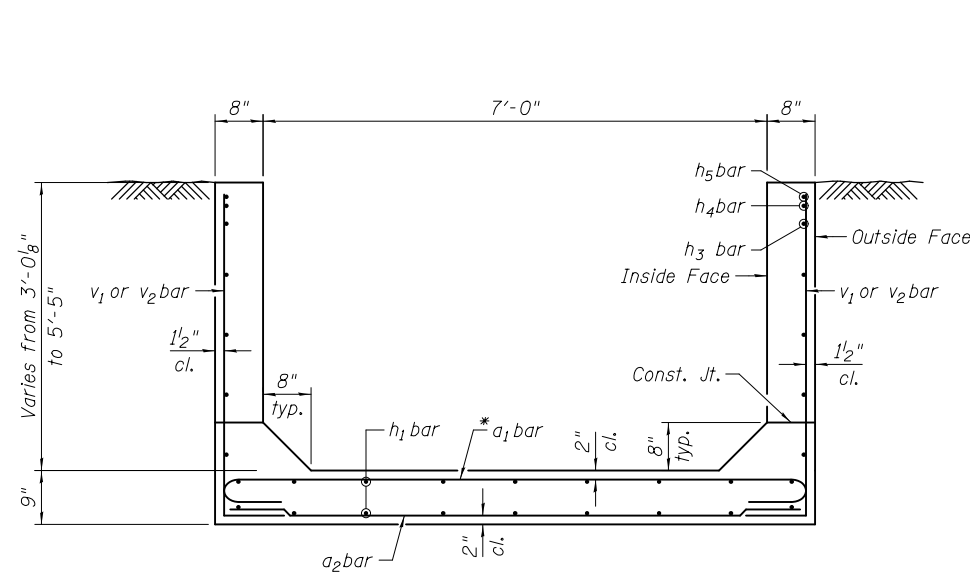
DESIGNED - BJM	REVISED -
CHECKED - MAS	REVISED -
DRAWN - MWS	REVISED -
CHECKED - BJM	REVISED -

PLOT DATE: 9/18/2013

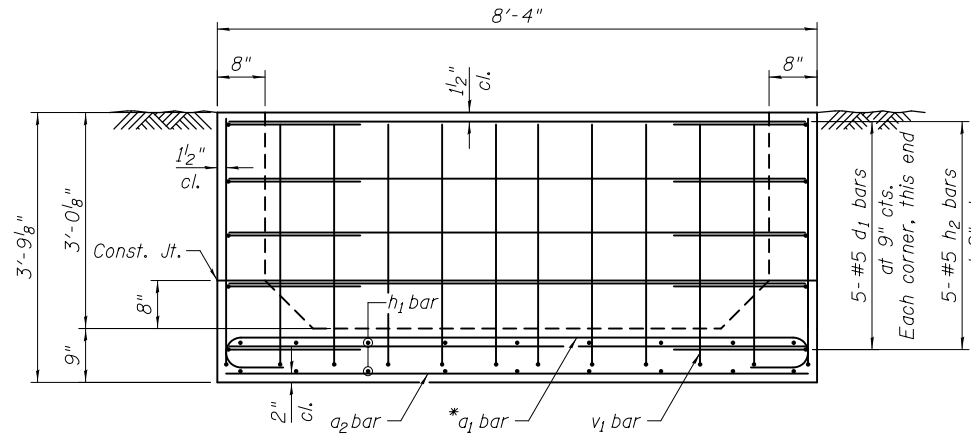
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION
DROP BOX NO. 1
SHEET NO. S-1 OF 2 SHEETS

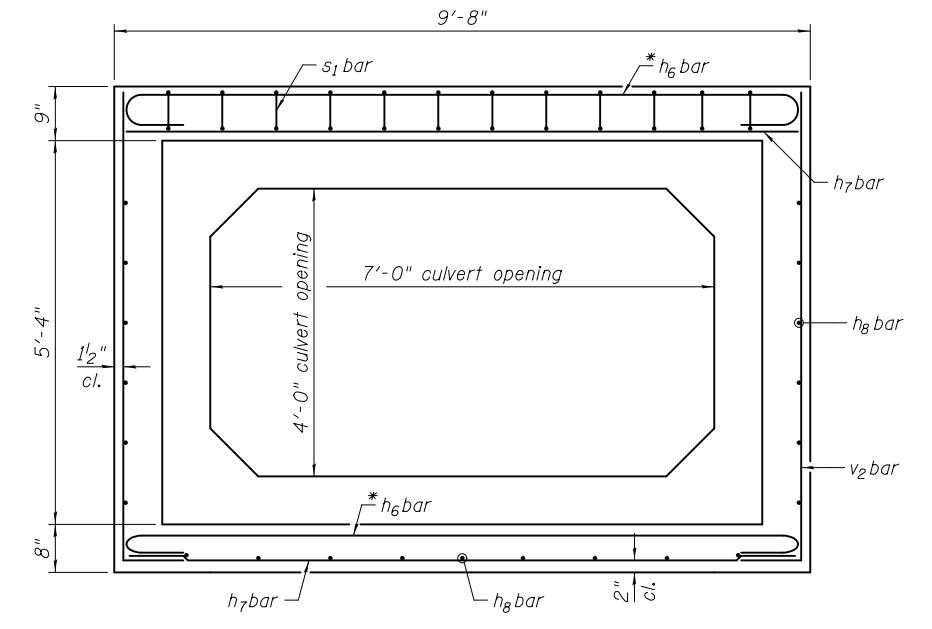
F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	(W-150)T-2	WINNEBAGO	41	27
CONTRACT NO. 64H04				
ILLINOIS FED. AID PROJECT				



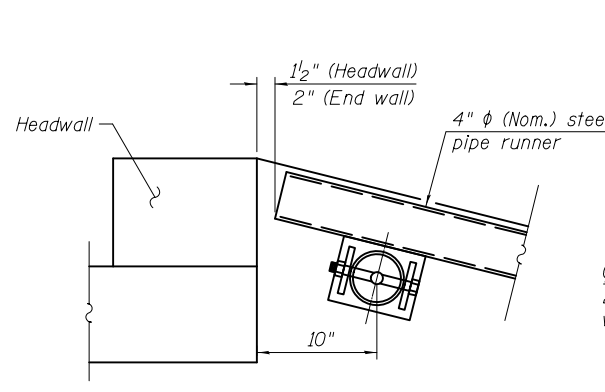
SECTION A-A



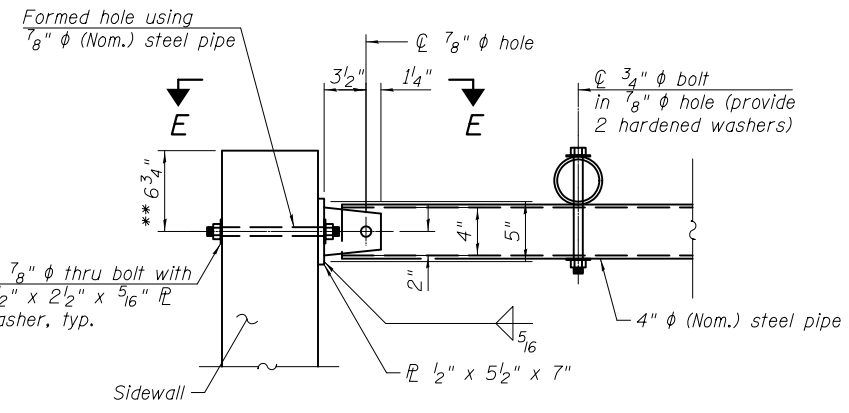
VIEW B-B
End Wall



SECTION C-C
Headwall

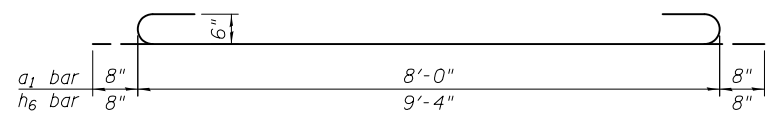


DETAIL A

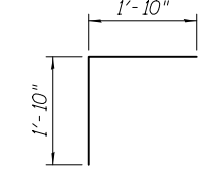


SECTION D-D

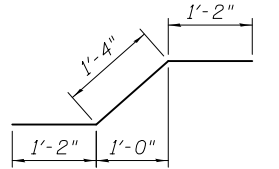
** Measured perpendicular to top of sidewall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert extension with drop box.



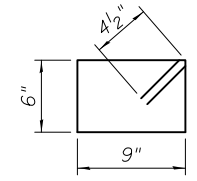
BAR a₁ and h₆
* Tilt #6 a₁ and #6 h₆ bars as required to maintain clearance.



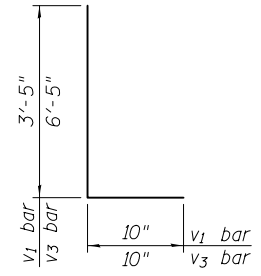
BAR d₁



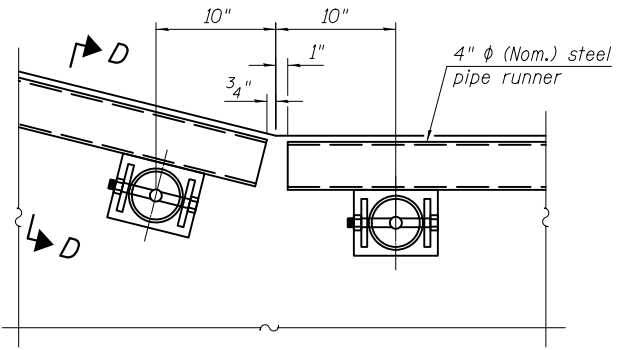
BAR h₈



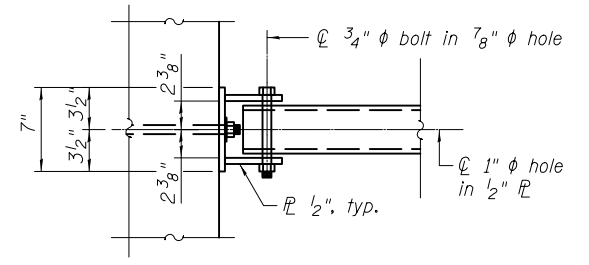
BAR s₁



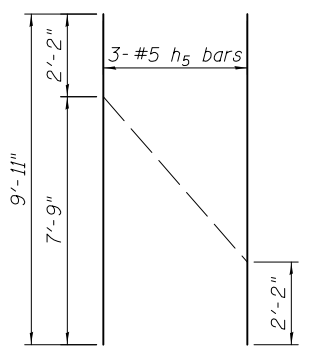
BAR v₁ and v₃



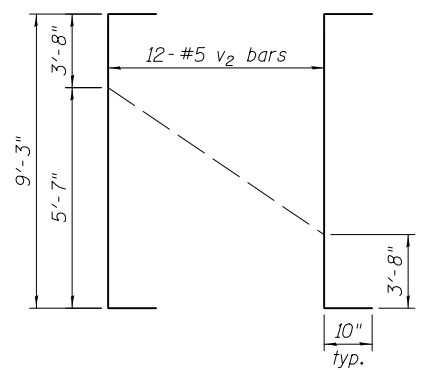
DETAIL B



VIEW E-E



FIELD CUTTING DIAGRAM
Order h₅ full length. Cut as shown and use the remainder of bars in the opposite wall.



FIELD CUTTING DIAGRAM
Order v₂ full length. Cut as shown and use the remainder of bars in the opposite wall.

BILL OF MATERIAL
(For Information Only)

Bar	No.	Size	Length	Shape
a ₁	36	#6	9'-4"	┌───┐
a ₂	18	#5	8'-0"	┌───┐
d ₁	10	#5	3'-8"	┌──┐
h ₁	9	#5	17'-0"	┌───┐
h ₂	5	#5	8'-1"	┌───┐
h ₃	10	#5	17'-0"	┌───┐
h ₄	2	#5	10'-4"	┌───┐
h ₅	3	#5	9'-11"	┌───┐
h ₆	4	#6	10'-8"	┌───┐
h ₇	4	#6	9'-4"	┌───┐
h ₈	19	#5	3'-8"	┌──┐
s ₁	8	#4	3'-3"	┌──┐
v ₁	32	#5	4'-3"	┌──┐
v ₂	12	#5	10'-11"	┌──┐
v ₃	4	#5	7'-3"	┌──┐
Concrete Structures			Cu. Yd.	9.8
Reinforcement Bars			Pound	1,640

9/18/2013 2:52:48 PM 1010000-64H04-SHT-002_DET02.dgn



DESIGNED - BJM
CHECKED - MAS
DRAWN - MWS
CHECKED - BJM

REVISI...
REVISI...
REVISI...
REVISI...

PLOT DATE = 9/18/2013

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS
DROP BOX NO. 1

SHEET NO. S-2 OF 2 SHEETS

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	(W-15d)T-2	WINNEBAGO	41	28
CONTRACT NO. 64H04			ILLINOIS FED. AID PROJECT	

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. This work will be measured for payment as each, with each end of each culvert being one each. End sections will be paid for at the contract unit price per each for Box Culvert End Sections of the culvert number specified.

Typical box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements of ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

Number of segments shown in Side Elevation is for example only. Length and number of precast box sections required to construct Box Culvert End Sections shall be determined by the Contractor.

See roadway plans for embankment slope (V:H).

1" ϕ anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

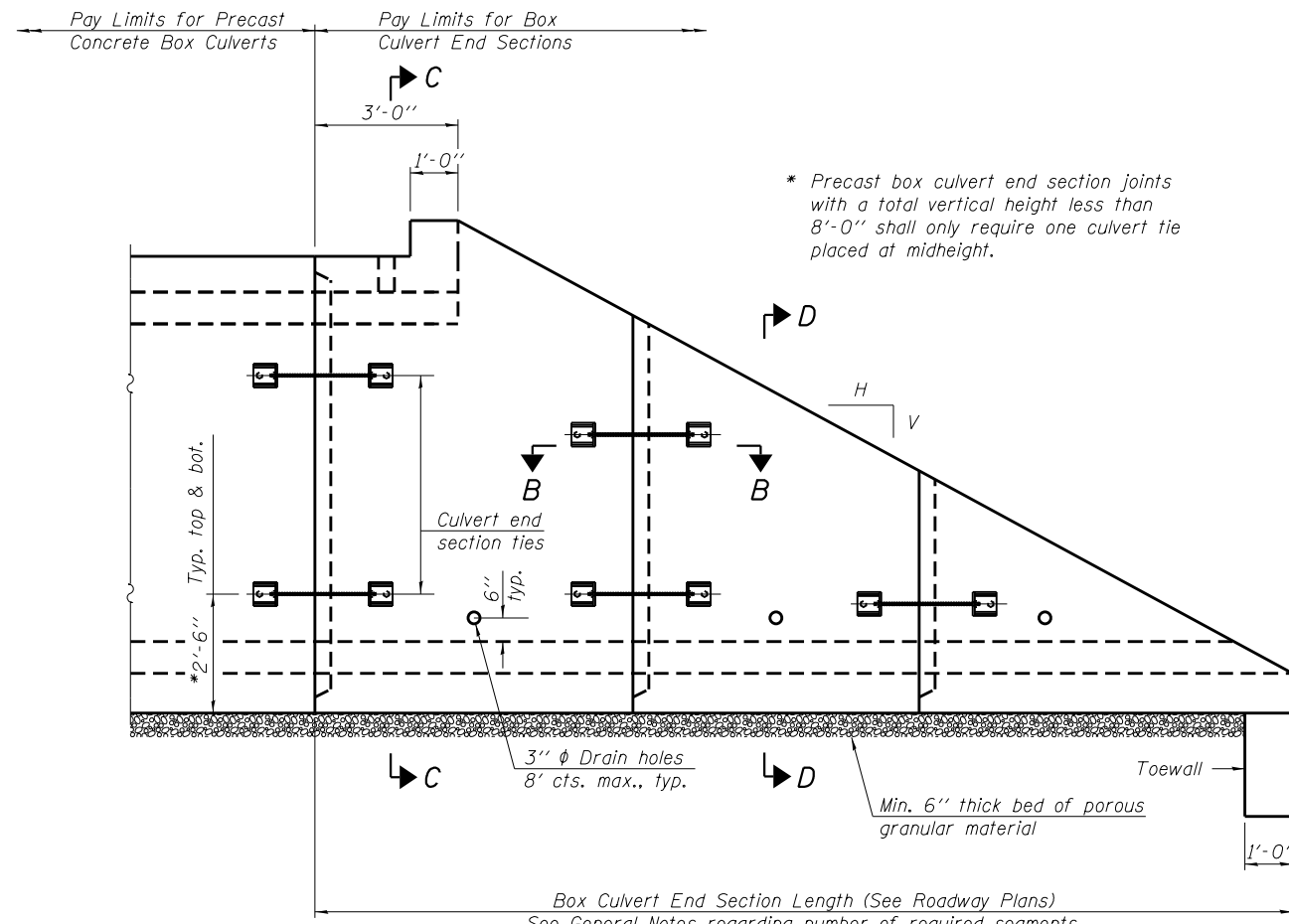
All costs associated with furnishing and installing or constructing the geotextile fabric, toewall, and culvert ties will not be measured for payment but shall be included in the contract unit price for Box Culvert End Sections of the culvert number specified.

Reinforcement bars designated (E) shall be epoxy coated.

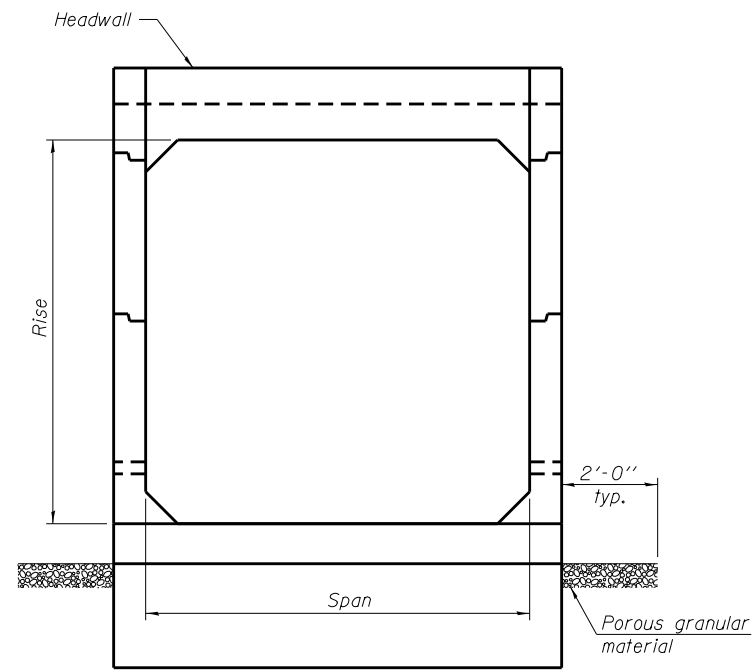
Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications unless noted otherwise.

Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01. The minimum weight of the fabric shall be 6 oz. / sq. yd..

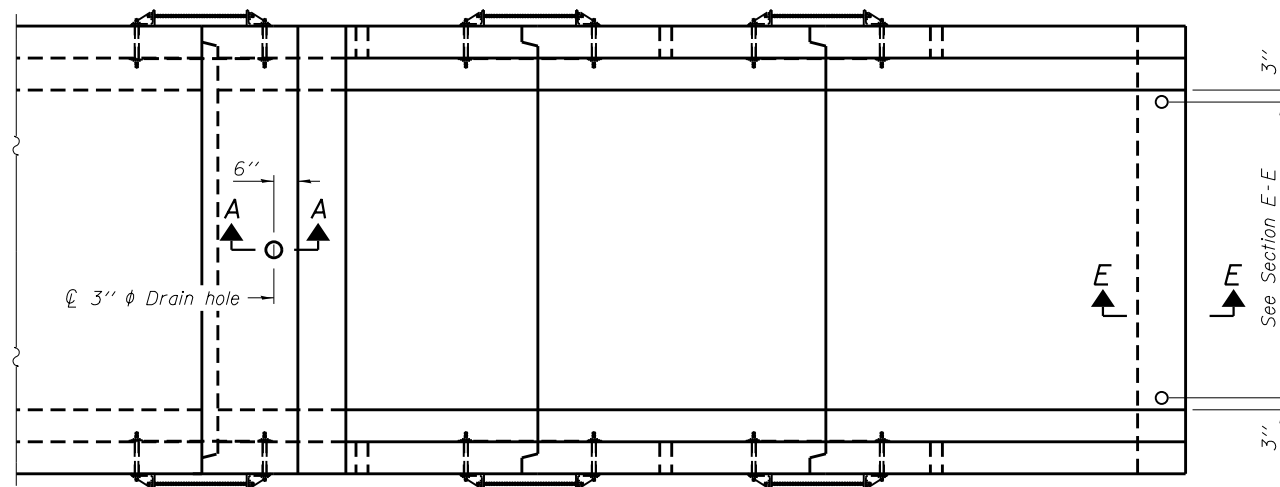
For end sections with traversable pipe grate systems, see grate detail sheet for required modifications.



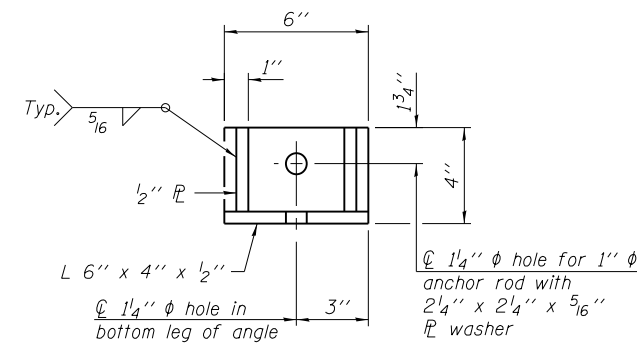
ELEVATION



END VIEW



PLAN



RESTRAINT ANGLE DETAIL

12" x 12" block of CA5, CA7, or CA11 coarse aggregate placed over drain opening. Block of aggregate shall be completely wrapped in nonwoven geotextile fabric.

Provide a double layer of 12" x 12" nonwoven geotextile fabric centered over the drain hole. Fabric shall be sealed to the concrete with mastic.

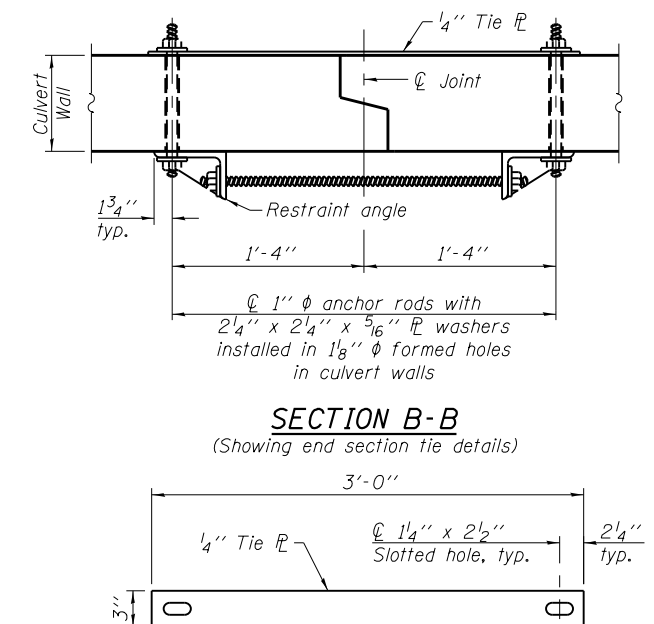
3" ϕ PVC drain cast with the concrete (Adjust location to clear reinforcement).

1/2" Square foam blockout around PVC drain (to be removed with formwork)

SECTION A-A

(All costs associated with furnishing and constructing the above drain details will not be measured for payment but shall be included in the contract unit price for the end section.)

(Sheet 1 of 2)



TIE PLATE DETAIL

10-16-12

FILE NAME
D206911-sht-singlecelldetail.dgn

PLOT DATE
Wed Oct 02 08:55:29 2013

DESIGNED -	REVISED -
CHECKED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SINGLE CELL PRECAST BOX CULVERT END SECTIONS

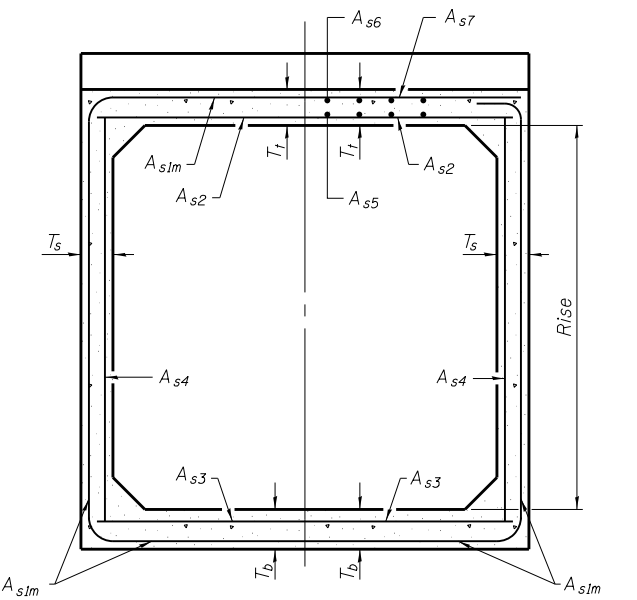
SHEET NO. 1 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	(W-15D)T-2	WINNEBAGO	41	29
CONTRACT NO. 64H04				

ILLINOIS FED. AID PROJECT

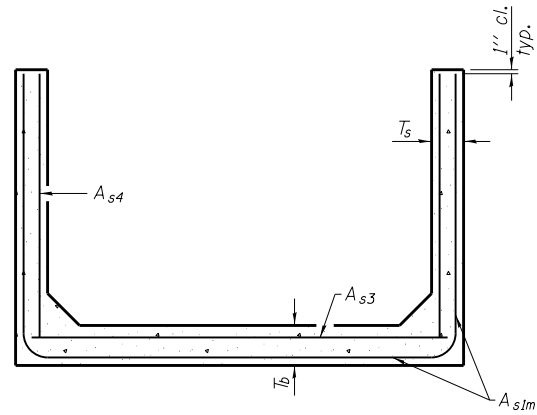
T (in.), T _s (in.)	Reinforcing Steel A _{slm} (in. ² /ft.)										
	2	3	4	5	6	7	8	9	10	11	12
4	0.19	0.17									
5	0.26	0.21	0.18								
6		0.26	0.23	0.22							
7		0.33	0.59	0.27	0.28						
8			0.43	0.39	0.36	0.34	0.40				
9				0.43	0.40	0.37	0.36	0.48			
10				0.47	0.44	0.41	0.38	0.42	0.56		
11				0.54	0.46		0.41	0.50	0.65		
12				0.58	0.50		0.45		0.46	0.75	

(A_{slm} reinforcement based upon welded wire fabric conforming to AASHTO M 55 or M 221).

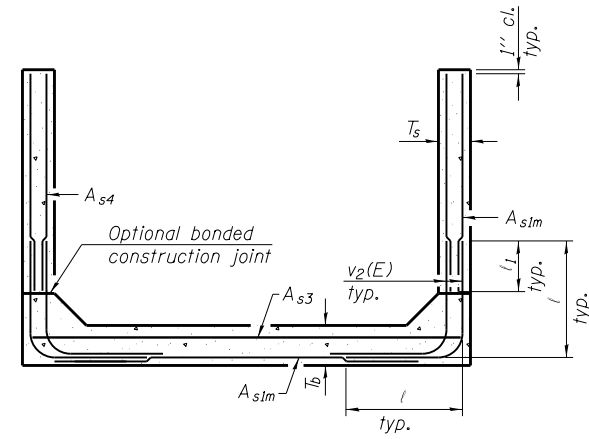


(Design Earth Cover < 2 ft.) (Design Earth Cover ≥ 2 ft.)

SECTION C-C



SECTION D-D



ALTERNATE SECTION D-D

l₁ DIMENSION

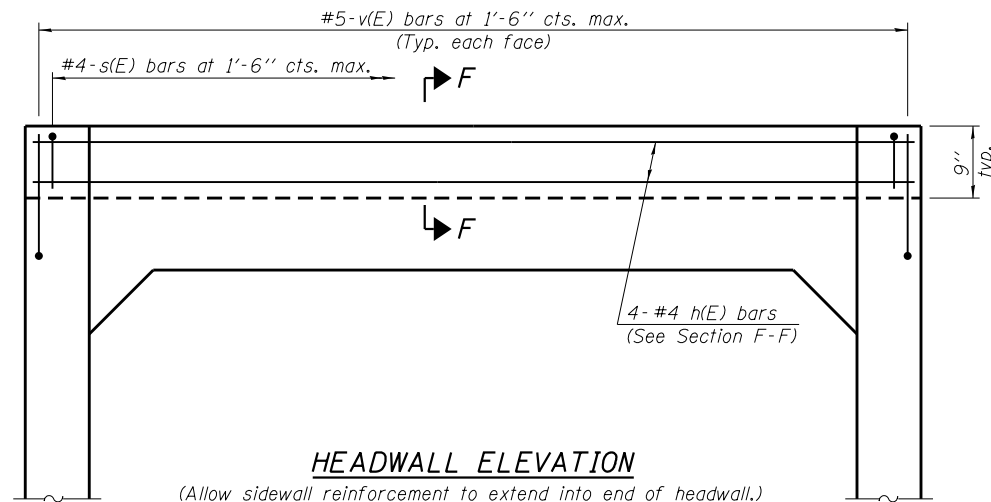
- #3 bar = 2'-0"
- #4 bar = 2'-8"
- #5 bar = 3'-4"
- #6 bar = 3'-11"

Notes:

Alternate Section D-D is provided to allow the Contractor the option of casting the bottom slab of the end section first followed by construction of the sidewalls using conventional forming methods. Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval when using Alternate Section D-D.

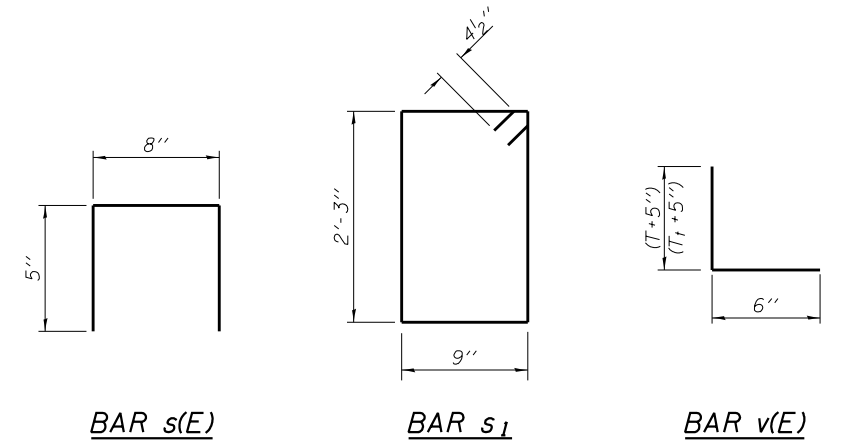
The size and spacing of the v₂(E) bars shall provide a minimum reinforcement area along each face of the walls (in.²/ft.) equal to 1.10*(A_{slm}). v₂(E) bars may consist of #3 thru #6 size reinforcement bars and the longitudinal spacing shall not exceed the lesser of the wall thickness or 8 inches.

Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.



(Allow sidewall reinforcement to extend into end of headwall.)

HEADWALL ELEVATION



BAR s(E)

BAR s_l

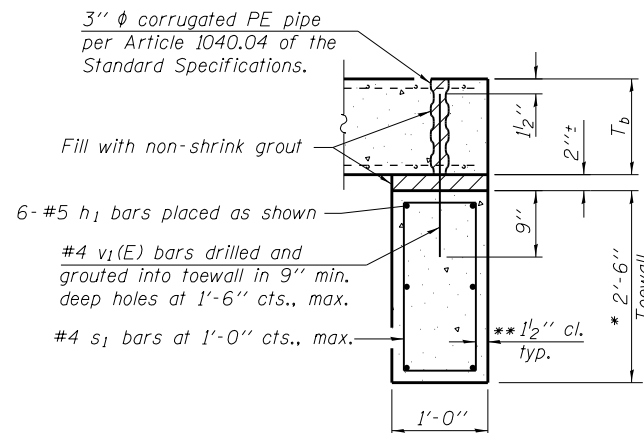
BAR v(E)

TOEWALL CONSTRUCTION SEQUENCE

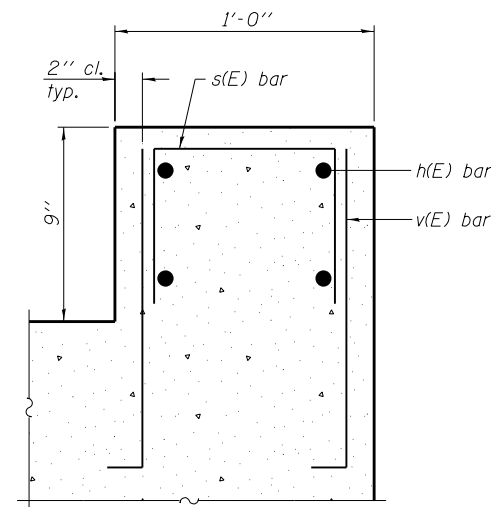
1. Perform excavation and construct toewall.
2. Backfill according to the applicable paragraphs of Article 502.10 of the Standard Specifications and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and grout reinforcement in toewall using approved chemical adhesive in accordance with Section 1027 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling the method.

** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



SECTION E-E



SECTION F-F

10-16-12

(Sheet 2 of 2)

FILE NAME
D206911-shr-singlecelldetail.dgn

PLOT DATE
Wed Oct 02 08:55:30 2013

USER NAME =

PLOT SCALE =

PLOT DATE =

DESIGNED -

CHECKED -

DRAWN -

CHECKED -

REVISED -

REVISED -

REVISED -

REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SINGLE CELL PRECAST BOX CULVERT END SECTIONS

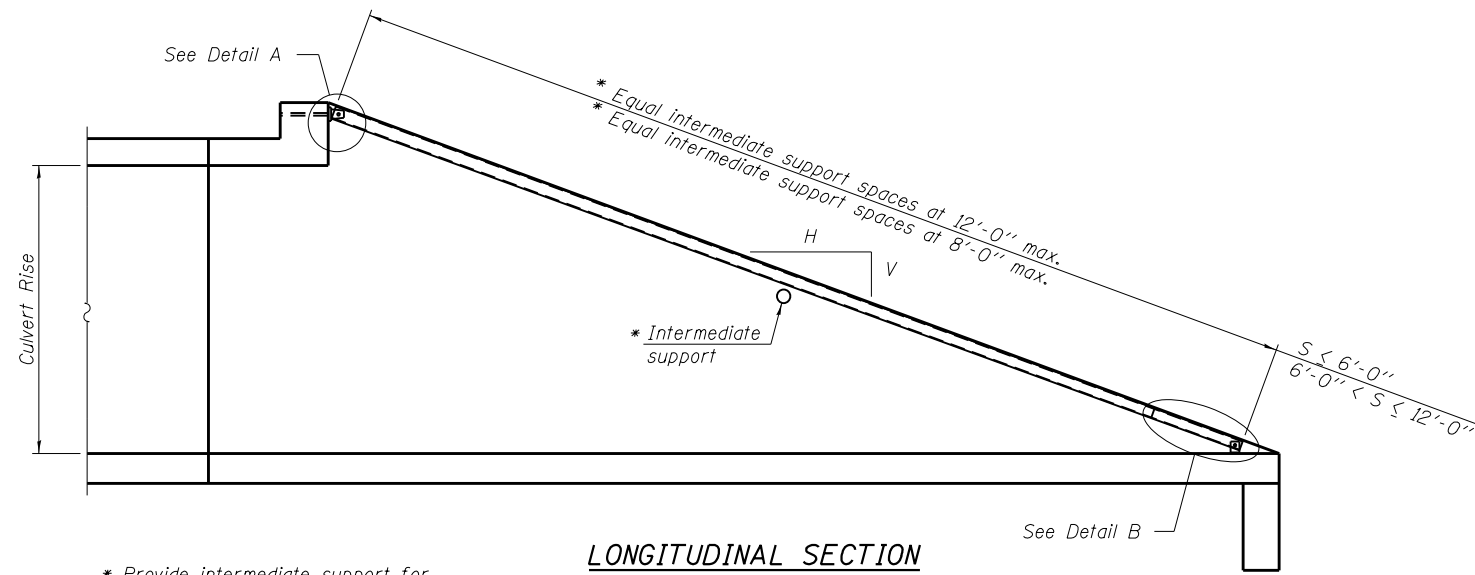
SHEET NO. 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	(W-15D)T-2	WINNEBAGO	41	30
CONTRACT NO. 64H04				

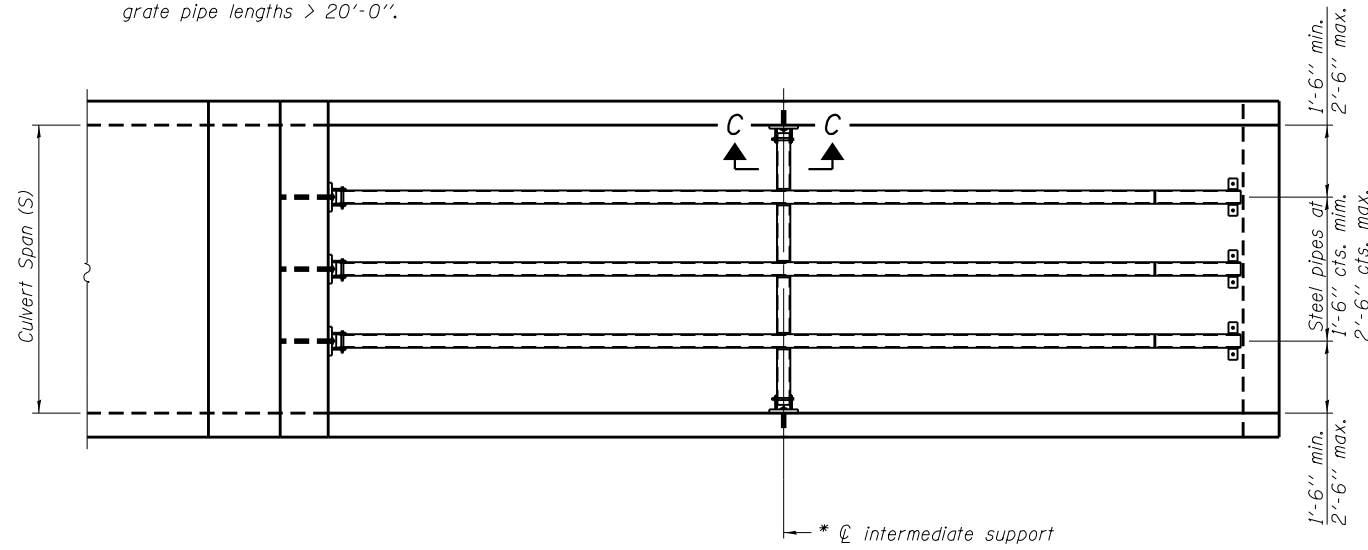
ILLINOIS FED. AID PROJECT

GENERAL NOTES

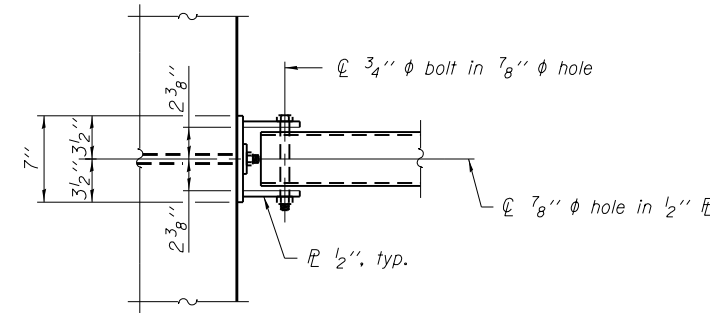
Length and number of steel pipes shall be determined by the Contractor except as shown.
The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 1 1/2" unless noted otherwise.



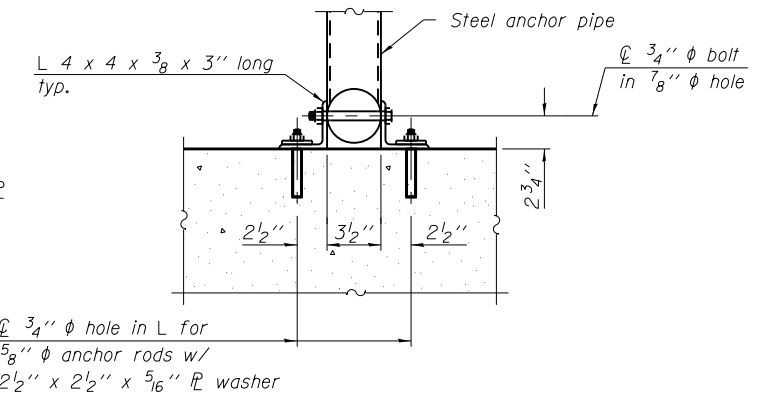
LONGITUDINAL SECTION



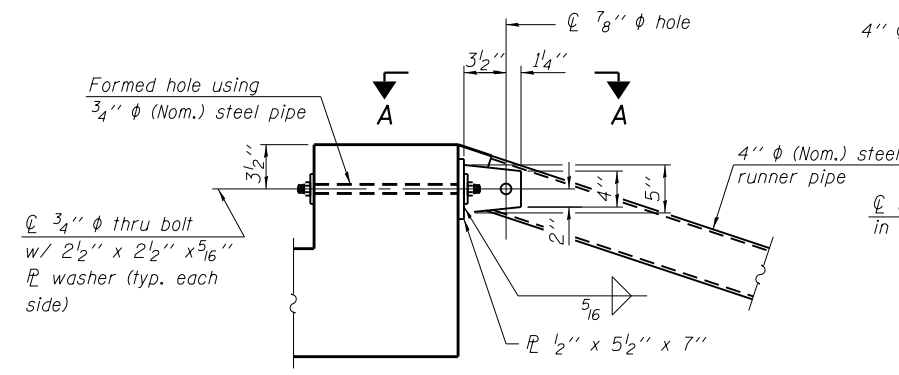
PLAN VIEW



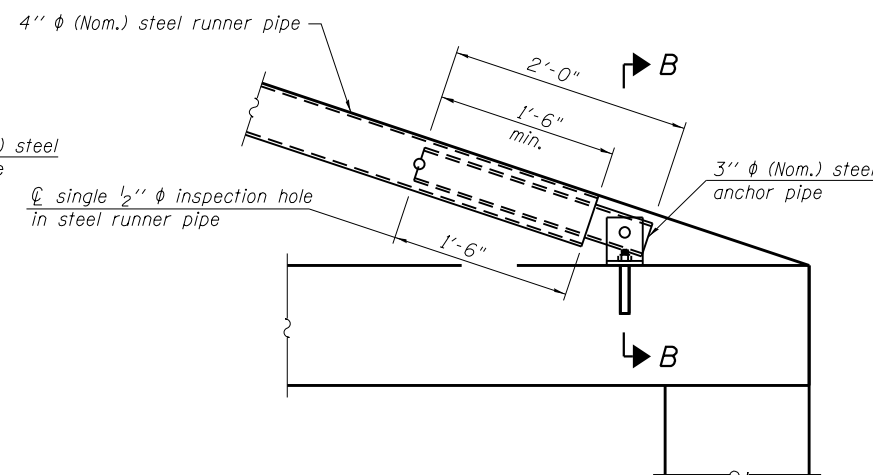
VIEW A-A



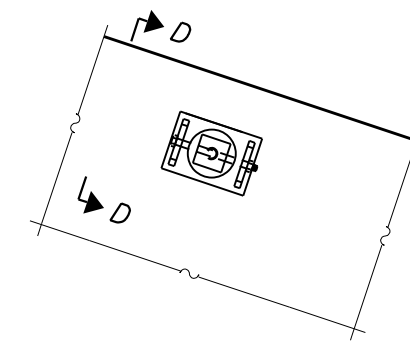
SECTION B-B



DETAIL A

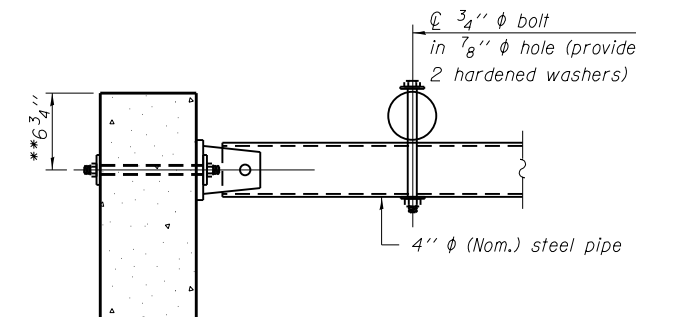


DETAIL B



VIEW C-C

(See Detail A for dimensions and details not shown.)



SECTION D-D

** Measured perpendicular to top of culvert wall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert end section.

10-16-12

FILE NAME
D206911-shr-singlecelldetail.dgn
PLOT DATE
Wed Oct 02 08:55:30 2013

DESIGNED -	REVISED -
CHECKED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -

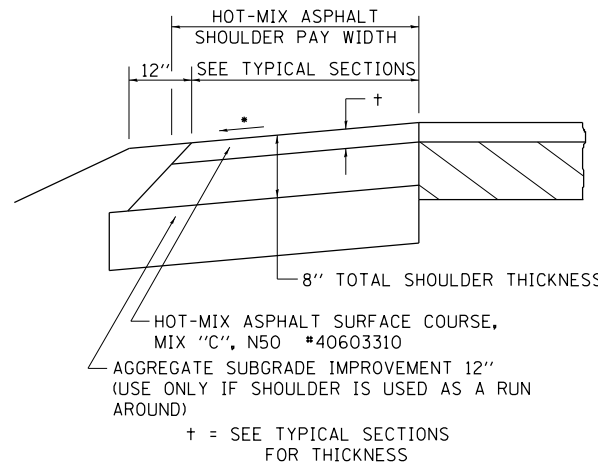
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAVERSABLE PIPE GRATE FOR BOX CULVERTS

SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	(W-15D)T-2	WINNEBAGO	41	31
CONTRACT NO. 64H04				
ILLINOIS FED. AID PROJECT				

HOT-MIX ASPHALT SHOULDER



GENERAL NOTES

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

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

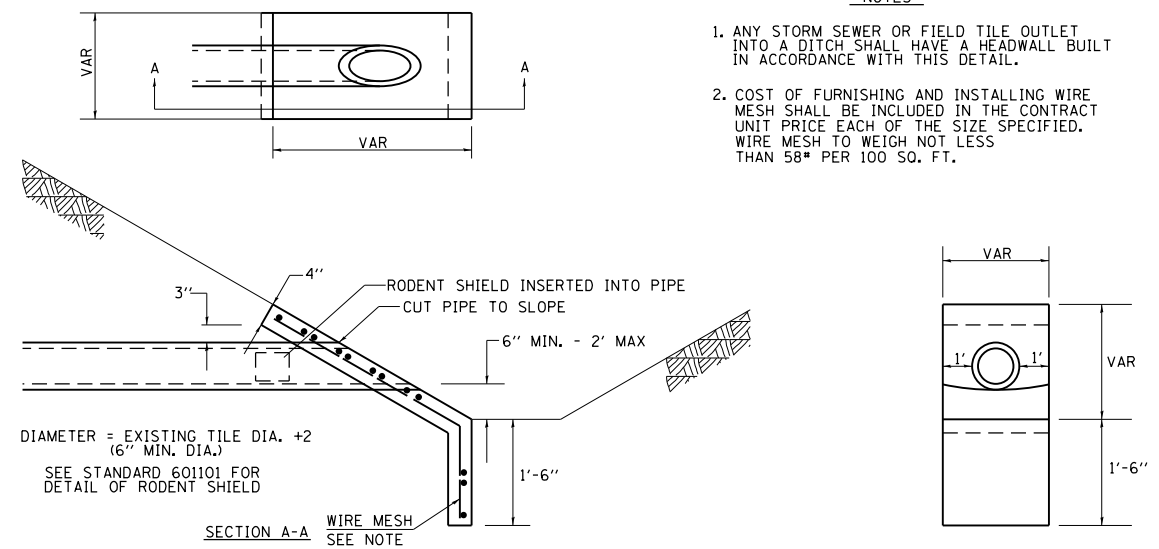
REMOVAL OF MATERIAL FOR PLACEMENT OF THE HOT-MIX ASPHALT SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

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

REVISED - 3-13-13

HOT-MIX ASPHALT SHOULDER 23.4a

CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS



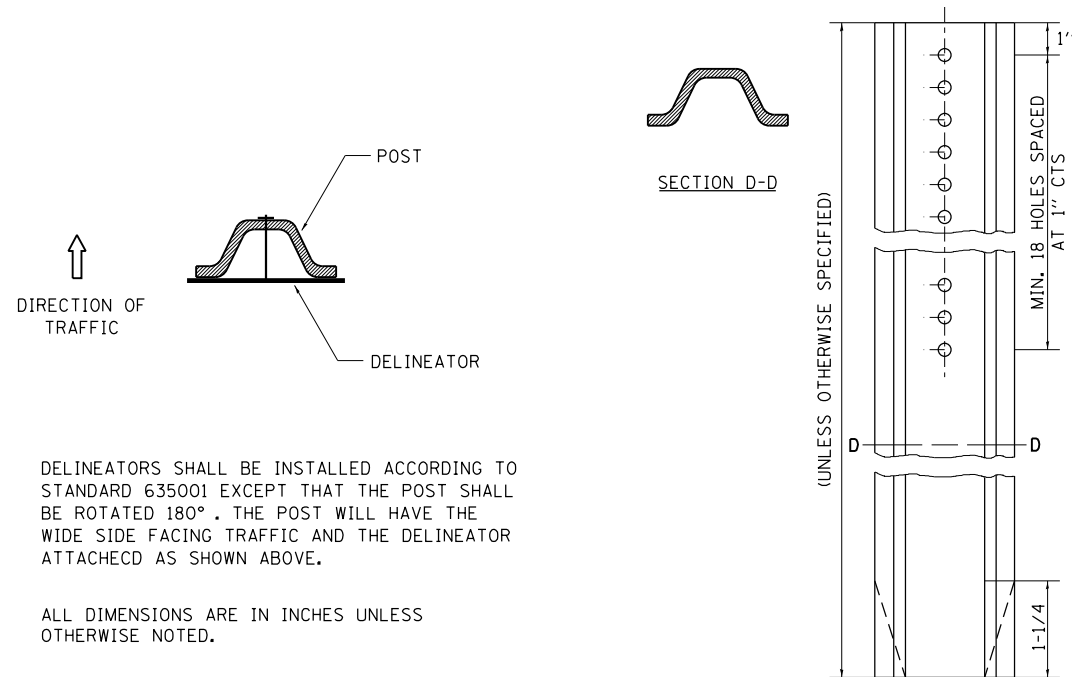
NOTES

- ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
- COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE EACH OF THE SIZE SPECIFIED. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ. FT.

REVISED - 10-09-12

CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 28.4

DELINEATOR AND POST ORIENTATION



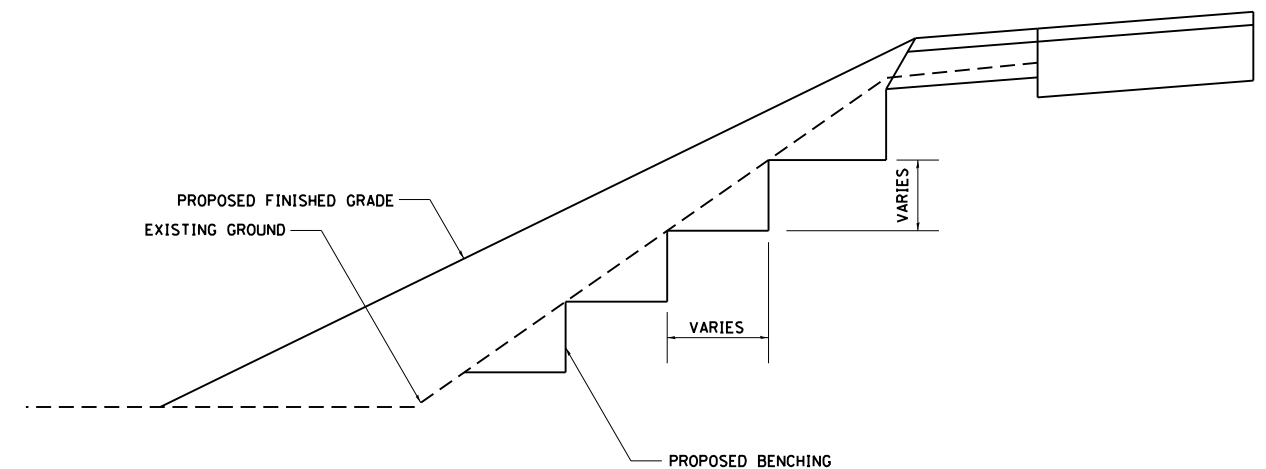
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-03-11

DELINEATOR AND POST ORIENTATION 37.4

TYPICAL BENCHING ON EXISTING EMBANKMENT

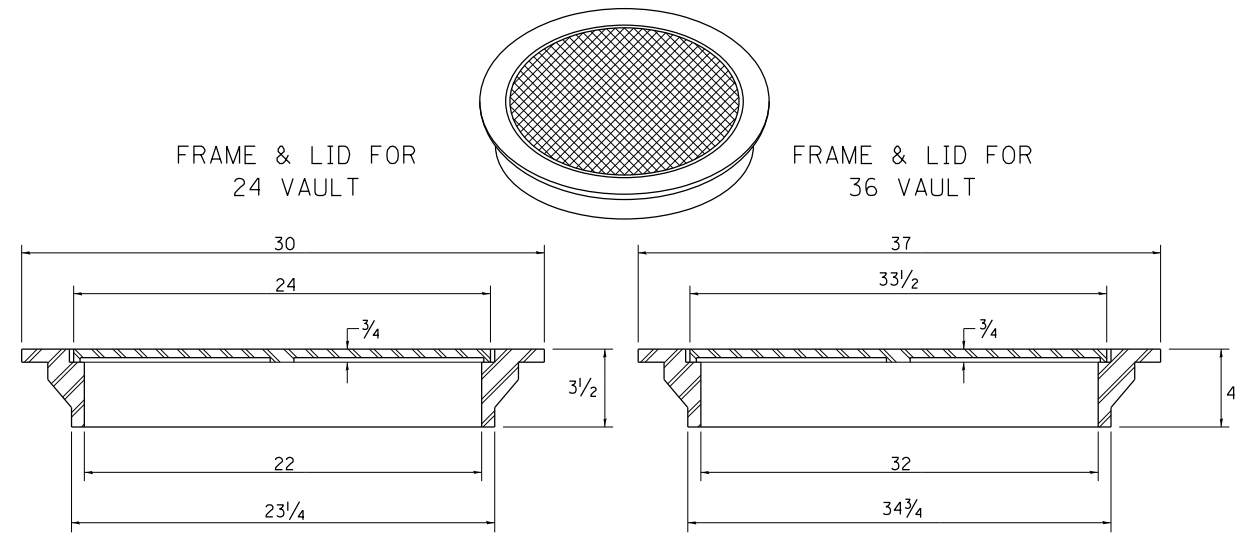


REVISED - 2-22-06

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

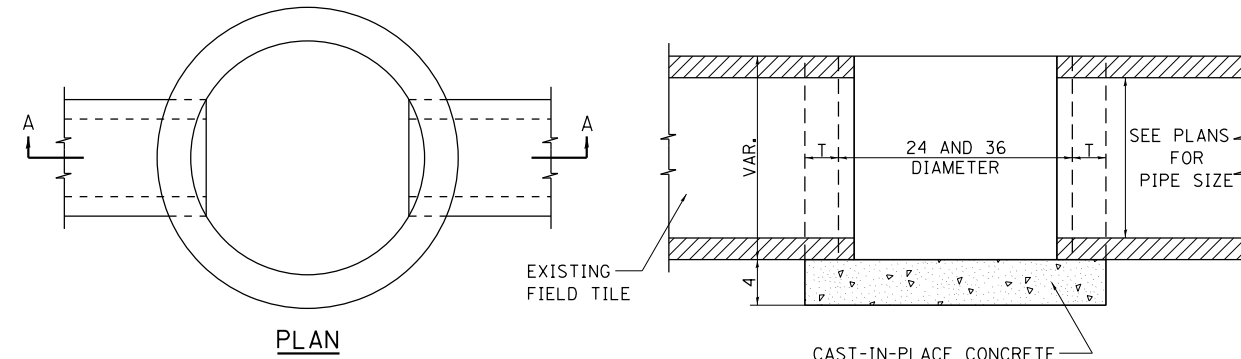
FILE NAME =	USER NAME = ditzlerse	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\p\dot\ditzlerse\0277441\0206911-sh-t-cover.dgn	DRAWN -	REVISED -	505					(W-15D)T-2	WINNEBAGO	41	32	
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -					CONTRACT NO. 64H04				
	PLOT DATE = Wed Oct 02 08:55:34 2013	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		

FIELD TILE JUNCTION VAULTS 24 AND 36 DIA.



TOTAL WEIGHT: 146 LBS.

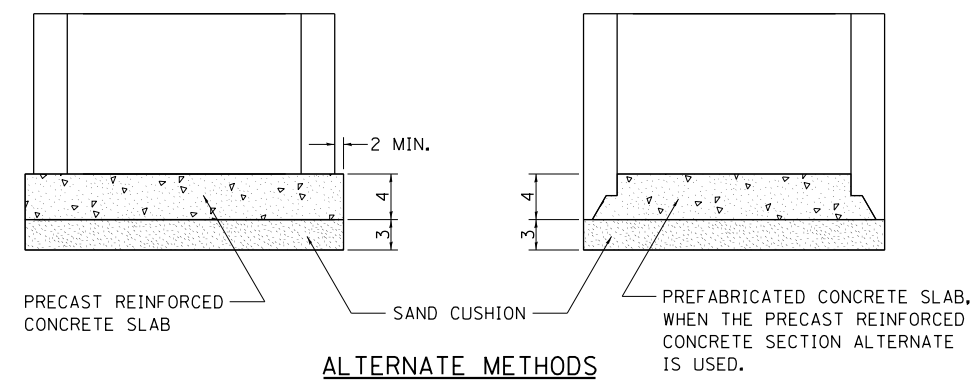
TOTAL WEIGHT: 280 LBS.



ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	8
CAST-IN-PLACE CONCRETE	6
CONCRETE MASONRY UNIT	5
PRECAST REINFORCED CONCRETE SECTION	3

NOTE: THE FRAME AND LID IS REQUIRED ON ALL JUNCTION VAULTS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

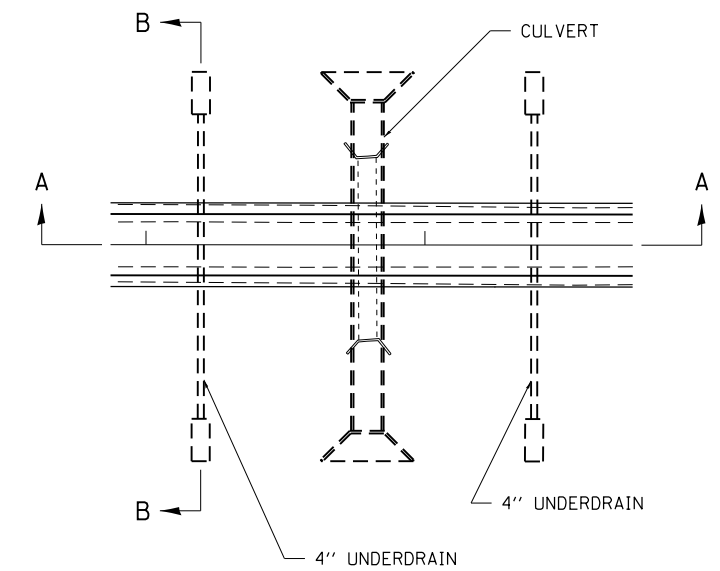


ALTERNATE METHODS

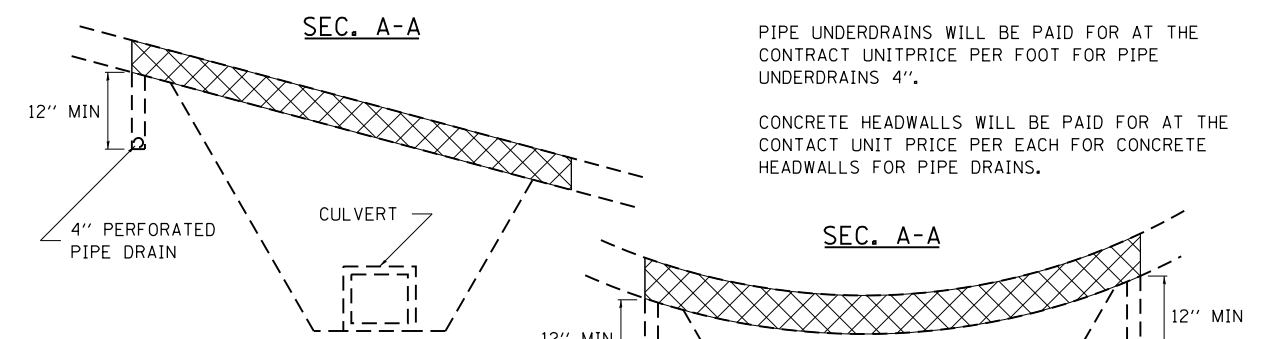
REVISED - 10-14-11

FIELD TILE JUNCTION VAULTS 24 AND 36 DIA. 30.2

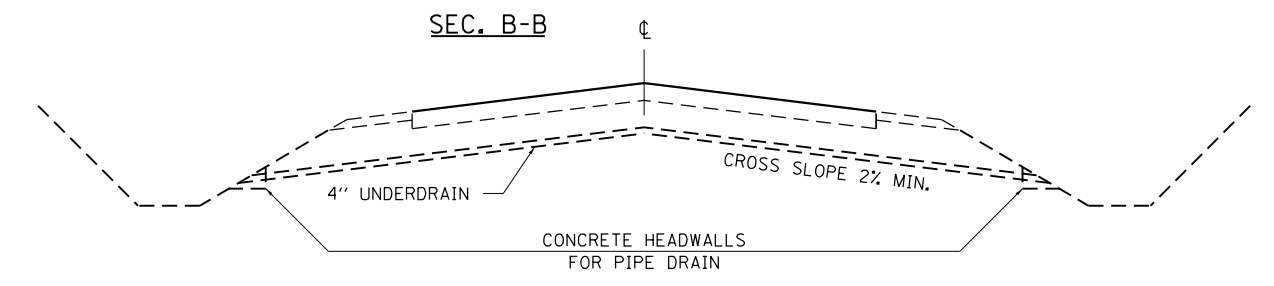
UNDERDRAIN FOR ACROSS ROAD (AR) CULVERTS



NOTES:
 IN SAG CONDITIONS INSTAL PIPE UNDERDRAINS ON BOTH SIDES OF CULVERT.
 ON HIGHWAY GRADES GREATER THAN 2% INSTAL PIPE UNDERDRAINS ON THE HIGH SIDE OF THE CULVERT.
 THIS WORK SHALL BE COMPLETED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATION.
 THE UNDERDRAIN SHALL EXTEND UNTIL INTERSECTING WITH THE SIDE SLOPES. THE PIPES SHALL DRAIN INTO CONCRETE HEADWALLS. (SEE ARTICLE 601.05 OF THE STANDARD SPECIFICATIONS AND HIGHWAY STANDARDS 601101).
 THE UNDERDRAIN SHALL BE A MINIMUM OF 12" BELOW THE EXISTING PAVEMENT.
 THE TRENCH FOR THE UNDERDRAIN SHALL BE BACKFILLED WITH CA7 OR CA16.
 THE TRENCH SHALL BE WRAPPED USING A FABRIC ENVELOPE MEETING THE REQUIREMENTS OF ARTICLE 1080.05 OF THE STANDARD SPECIFICATIONS. FABRIC ENCASING THE PIPE SHALL BE ELIMINATED.



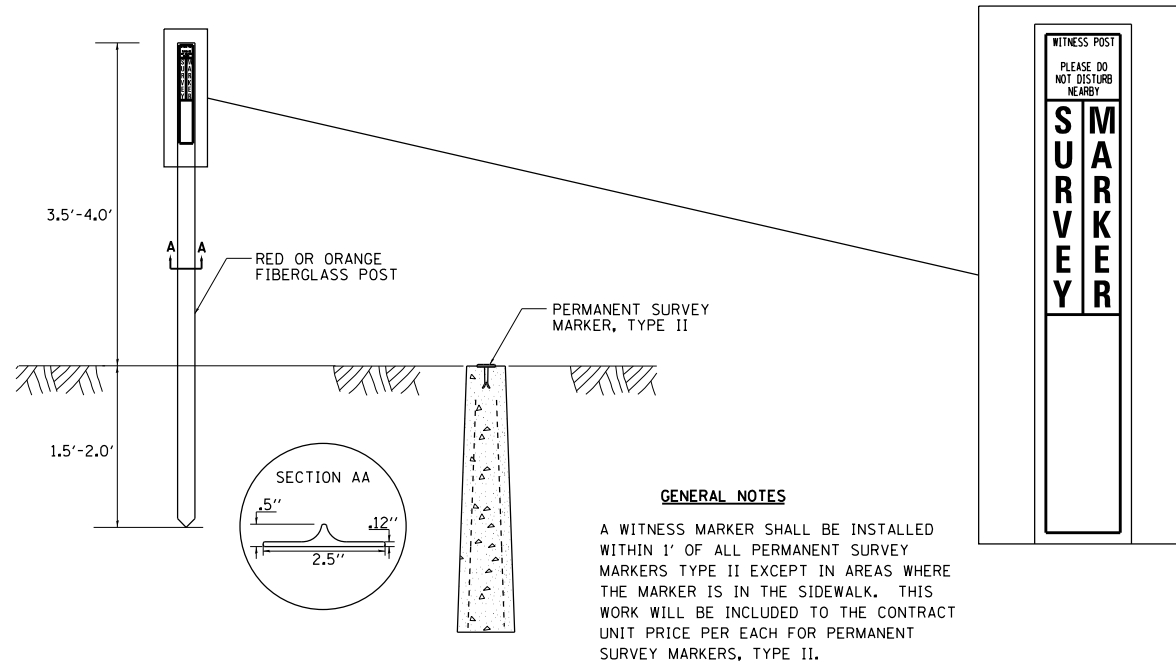
NOTES:
 (HIGHWAY GRADE GREATER THAN 2%)
NOTES:
 (IN SAG CONDITION)
 (PIPE DRAIN ON EACH SIDE)



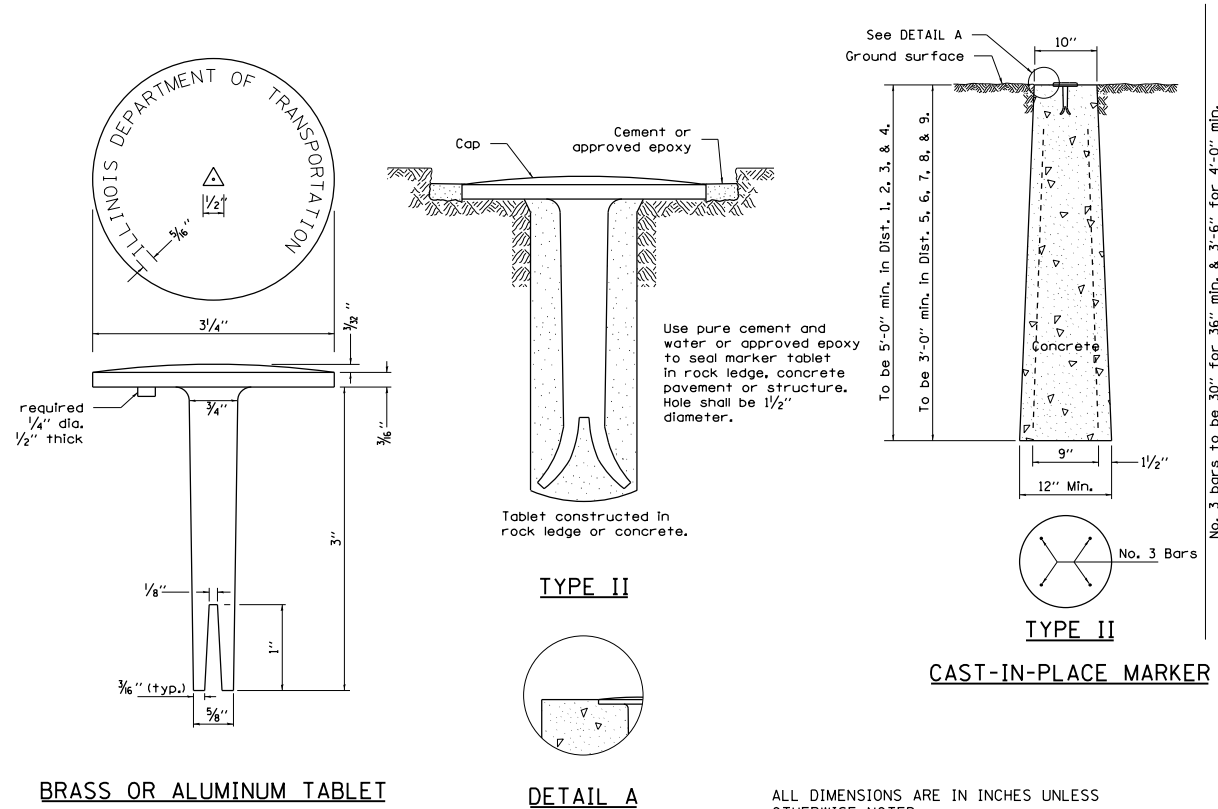
REVISED - 7-05-12

UNDERDRAIN FOR ACROSS ROAD (AR) CULVERTS 37.2

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



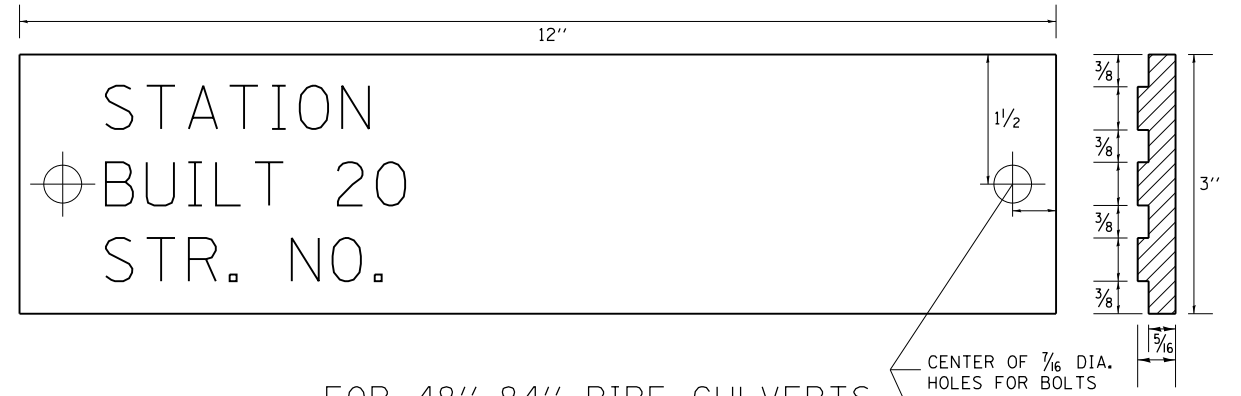
PERMANENT SURVEY MARKERS, TYPE II



WITNESS MARKER & PERMANENT SURVEY MARKERS, TYPE II 66.2

NAME PLATE FOR CULVERTS

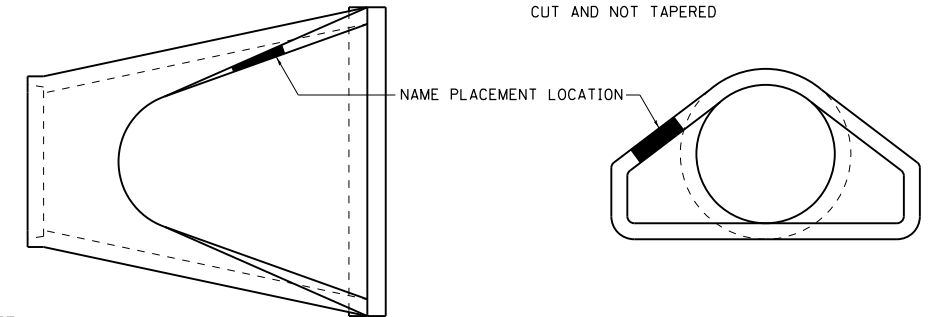
FOR 24\"/>



FOR 48\"/>



NOTE
 LETTERING RAISED 1/8. SQUARE CUT AND NOT TAPERED



DESIGNERS NOTE

NAME PLATES SHALL BE FURNISHED & INSTALLED ACCORDING TO SECTION 515 OF THE STANDARD SPECIFICATIONS, EXCEPT 2 BOLTS SHALL BE USE TO FASTEN THE PLATE TO THE END SECTION.

USE STANDARD 515001 FOR BRIDGES AND MULTI-CELL CULVERTS WITH SPANS OF 20' OR MORE MEASURED ALONG THE CENTERLINE AT THE HIGHWAY.

USE THIS DETAIL FOR ALL OTHER PIPE CULVERTS & BOX CULVERTS WITH STRUCTURE NUMBERS. INCLUDE THE INFORMATION TO FILL OUT THE NAME PLATE FOR EACH CULVERT.

IN BOTH CASES INCLUDE A PAY ITEM FOR NAME PLATES.

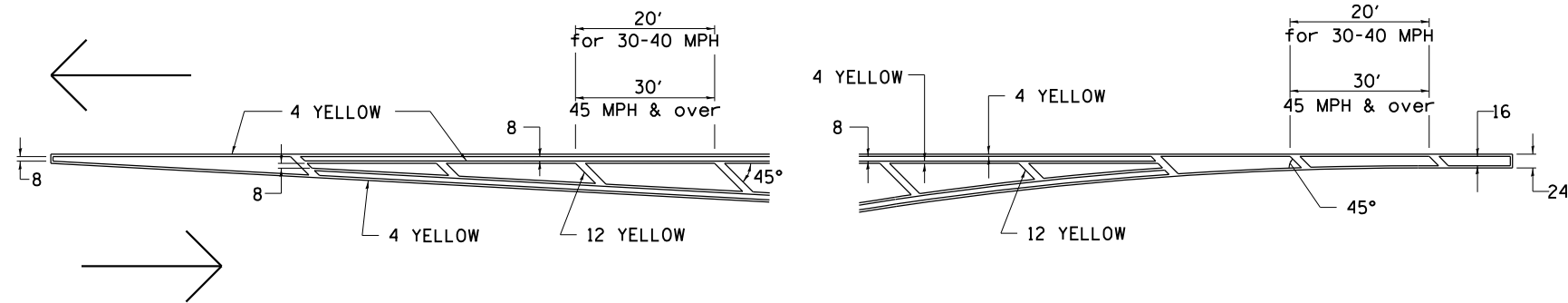
REVISED - 5-27-09

STATION	STRUCTURE NO.
412+60.59	101-1236

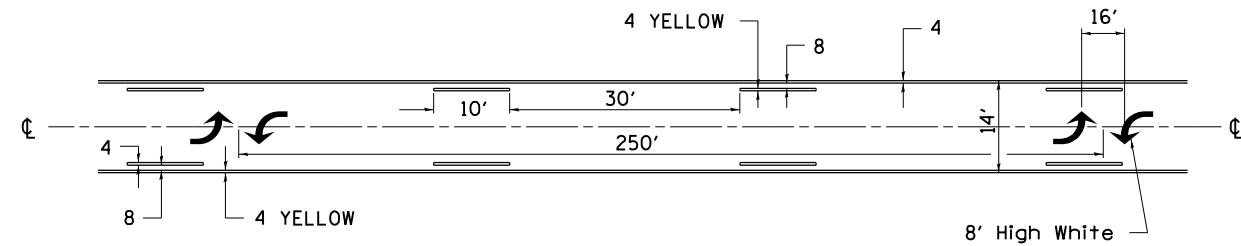
NAME PLATE FOR CULVERTS 88.2

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

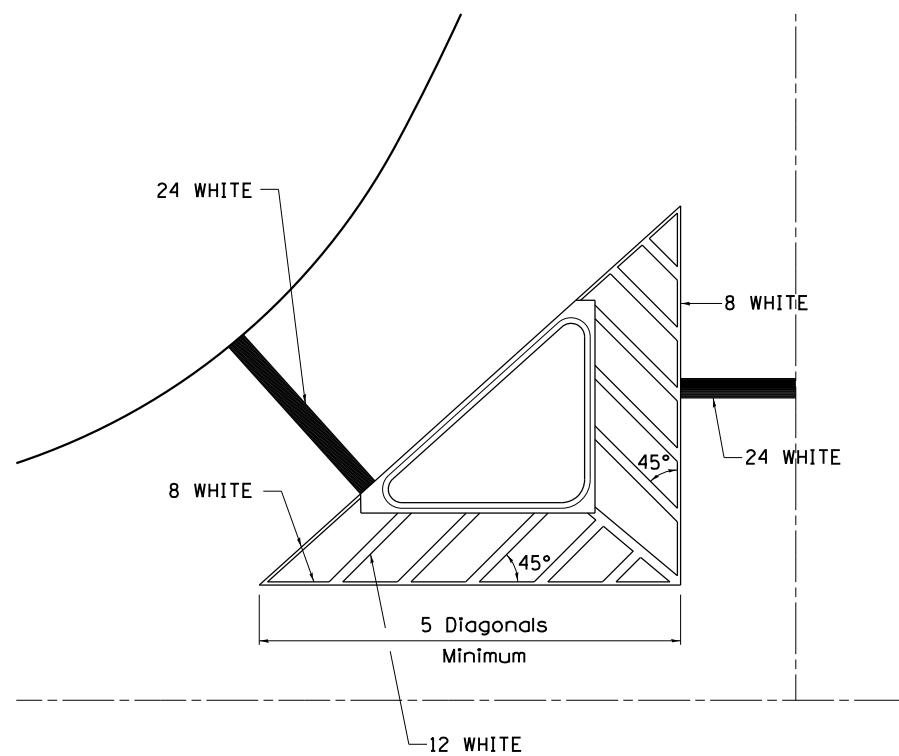


MEDIAN PAVEMENT MARKING

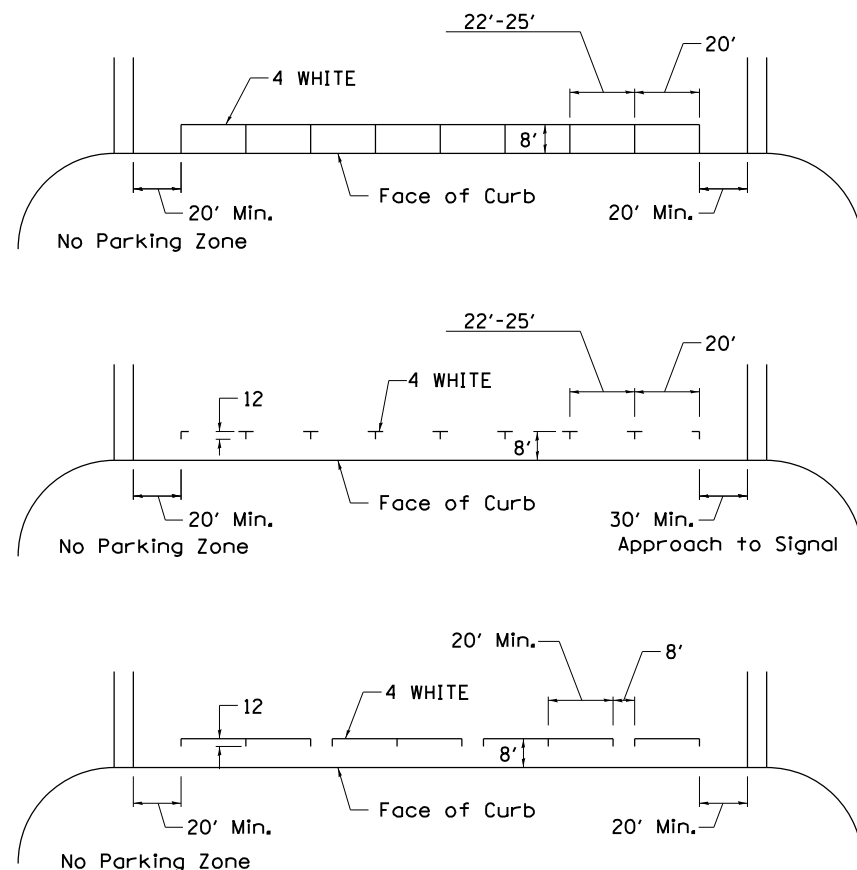


•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH

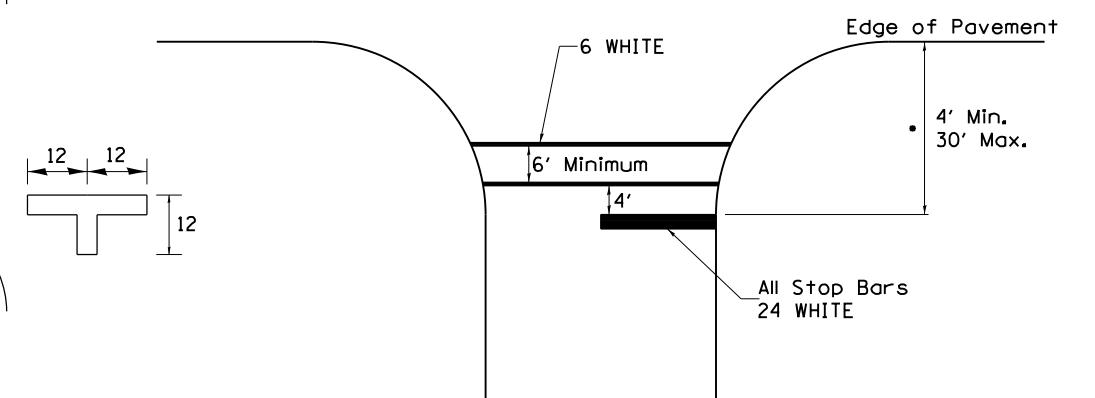


TYPICAL PARKING SPACING



STANDARD CROSSWALK MARKING

See Schedules for Locations

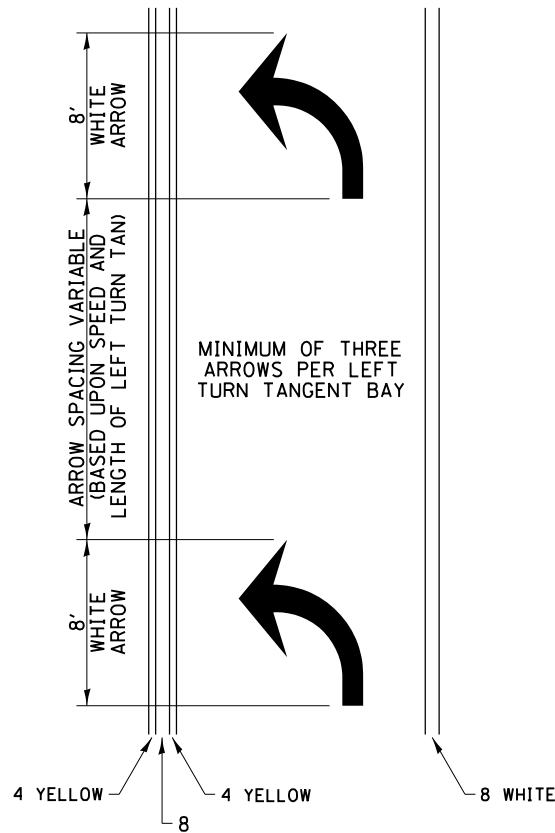


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = ditzlerse	DESIGNED -	REVISED - 3-05-12	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p\dot\ditzlerse\0277441\0206911-sh-t-cover.dgn	DRAWN -	REVISED -	REVISED -					505	(W-15D)T-2	WINNEBAGO	41	35
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	REVISED -		CONTRACT NO. 64H04			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
PLOT DATE = Wed Oct 02 08:55:35 2013	DATE -	REVISED -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.			

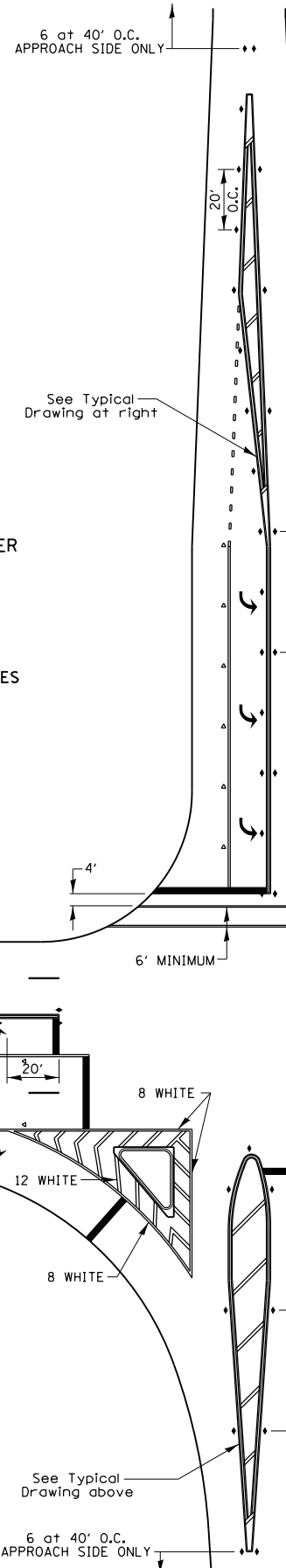
TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT

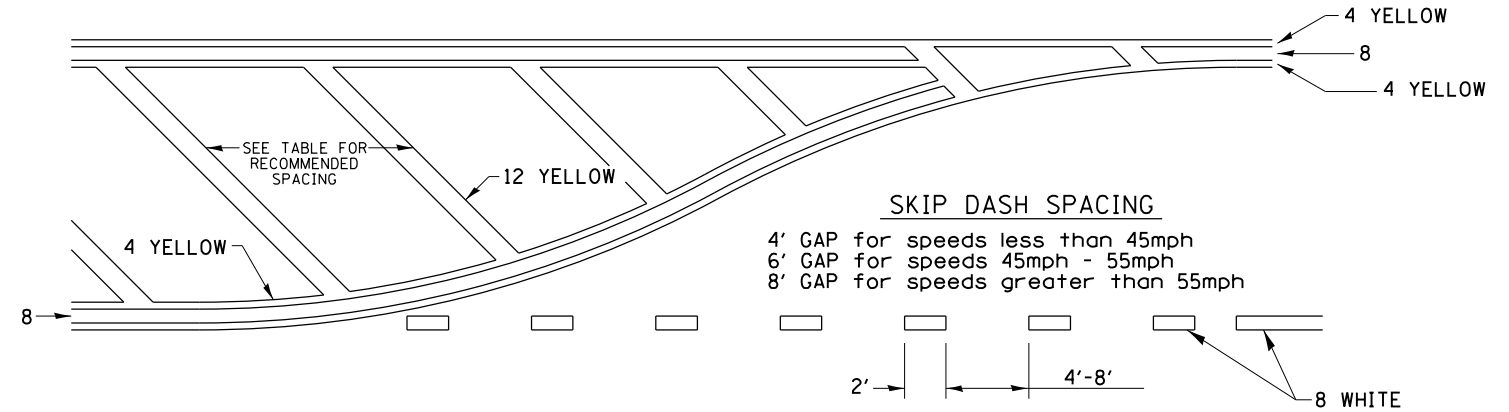


- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



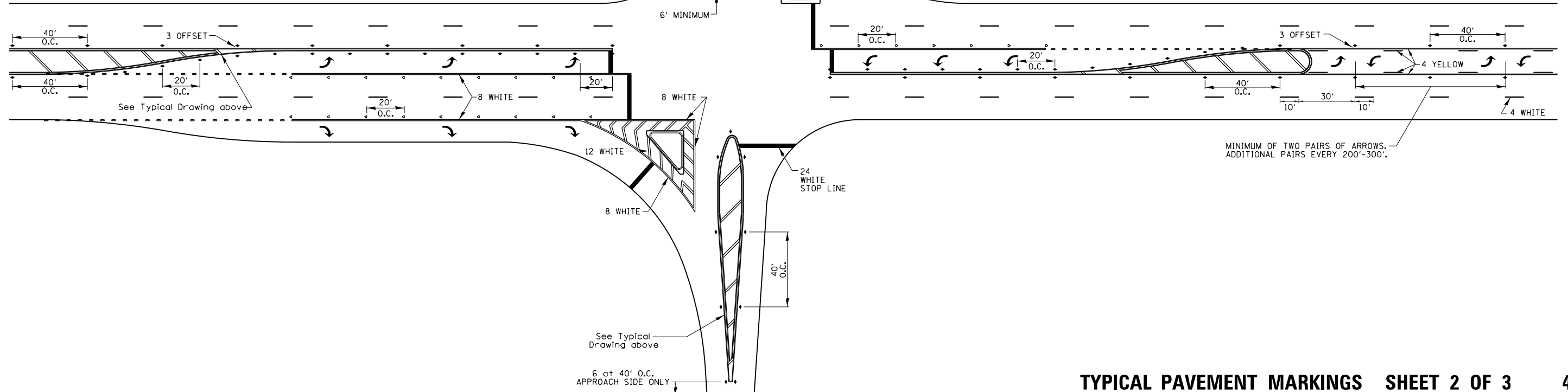
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

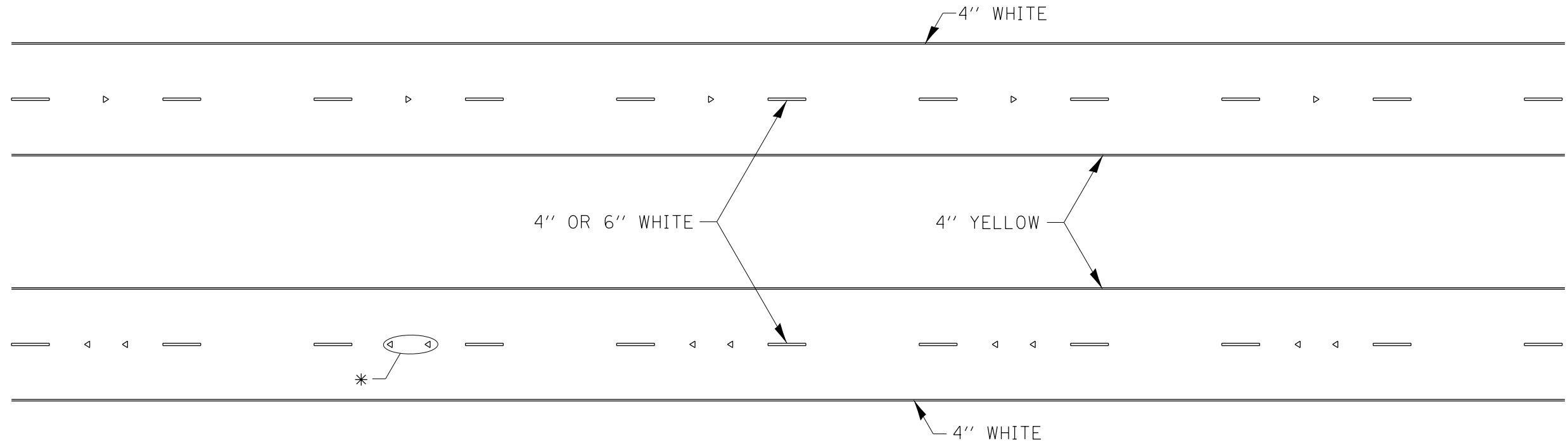
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

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



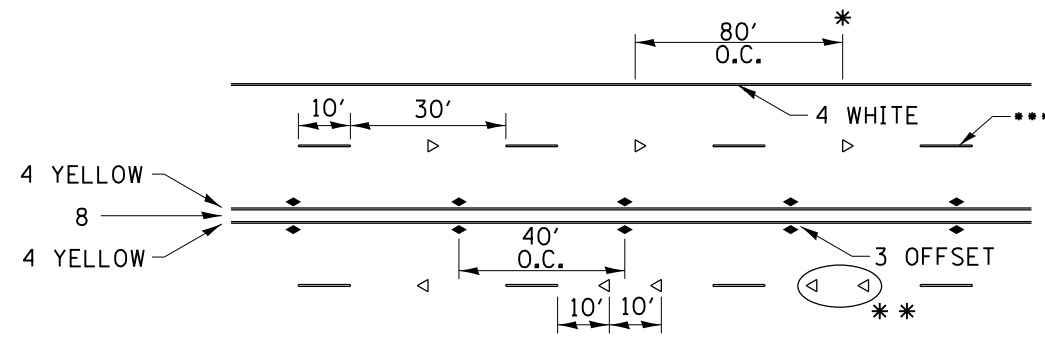
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et:\pw\work\p\idot\ditlerse\0277441\0206911-sh-t-cover.dgn	DRAWN -	REVISED -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	505	(W-15D)T-2	WINNEBAGO	41	36
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	REVISED -						CONTRACT NO. 64H04					
PLOT DATE = Wed Oct 02 08:55:36 2013	DATE -	REVISED -	REVISED -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT \geq 20,000.

MULTI-LANE / DIVIDED

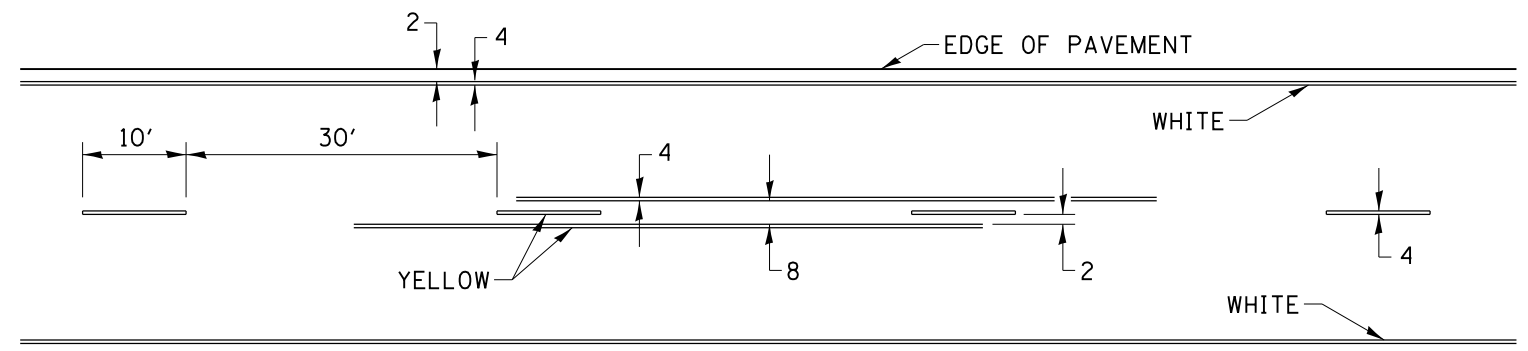


- * REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.
- ** USE DOUBLE MARKERS WHEN ADT \geq 20,000
- *** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS
DETAIL NOT HIGHWAY STANDARD 781001)

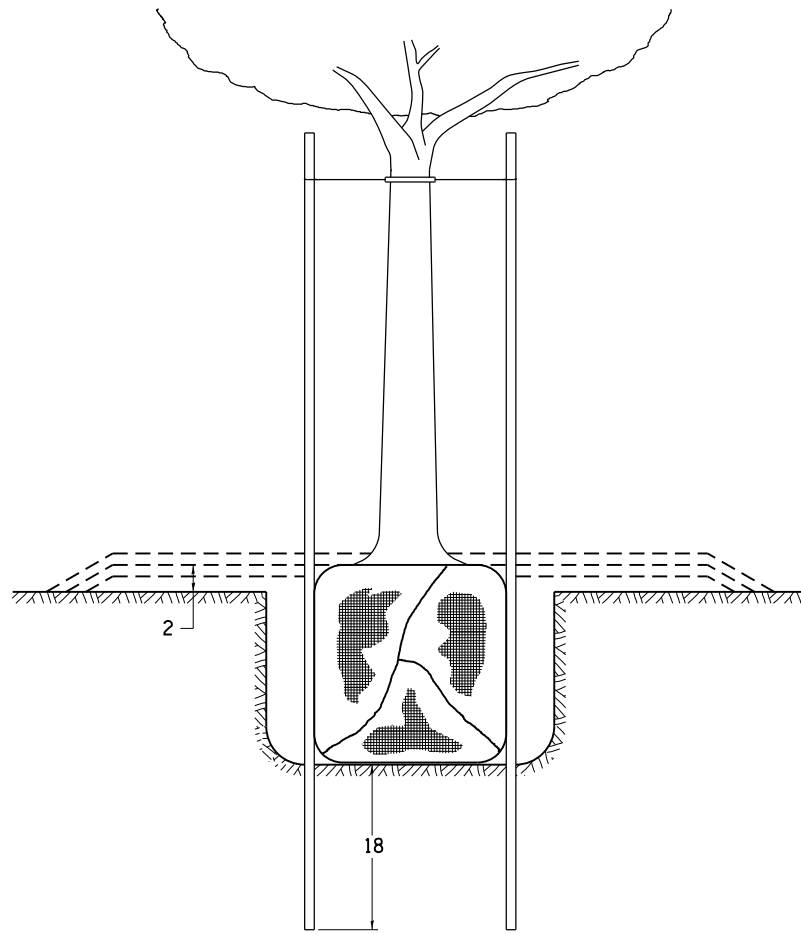
TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



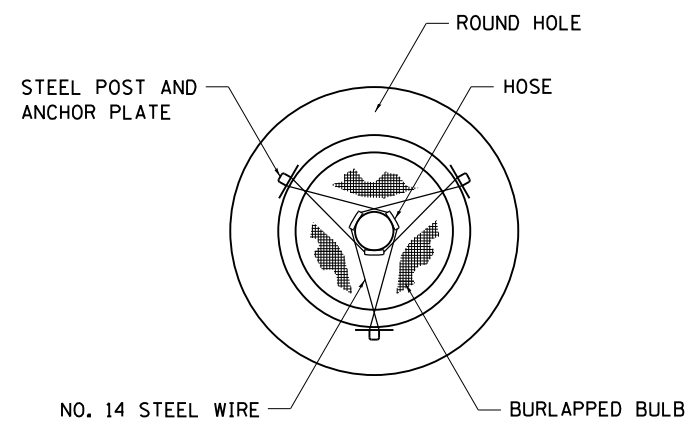
SYMBOLS

FILE NAME =	USER NAME = ditzlerse	DESIGNED -	REVISED - 8-27-13	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		CHECKED -	REVISED -			SCALE:		SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 64H04	
		DATE -	REVISED -			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

DETAILS OF PLANTING AND BRACING TREES

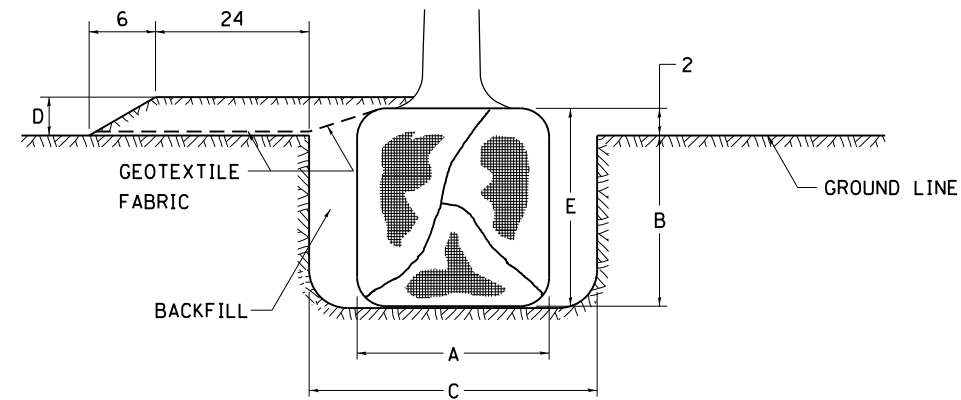


TREES SMALLER THAN 4 1/2 IN DIAMETER

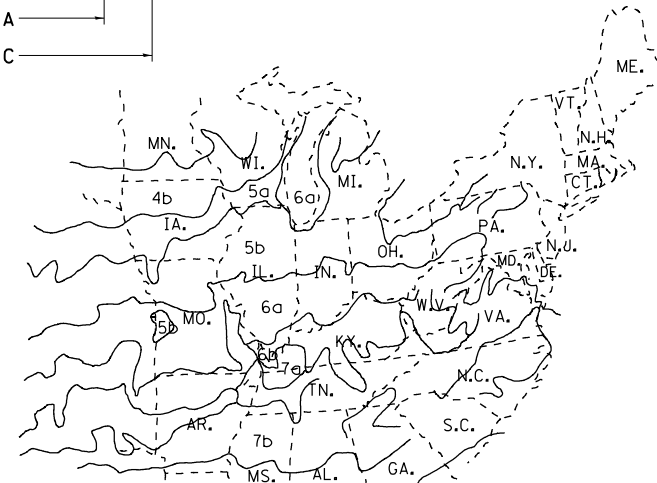


SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER CU. YDS.
5'-6'	16	10	30	4	12	0.54
5'-6' BB	16	10	30	4	12	0.54
6'-7' BB	18	12	30	4	14	0.54
7'-8' BB	20	11	30	4	13	0.54
8'-10' BB	24	14	36	4	16	0.61
10'-12' BB	26	15	36	4	17	0.61

LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER CU. YDS.
0-2	20	11	36	4	13	0.61
2-2 1/2 BB	24	14	48	4	16	0.78
2 1/2-3 BB	28	17	48	4	19	0.78
3-3 1/2 BB	32	17	60	4	19	0.96
3 1/2-4 BB	36	20	60	4	22	0.96
4-4 1/2 BB	40	22	72	4	24	1.16
4 1/2-5 BB	44	24	72	4	26	1.16
5-5 1/2 BB	48	27	84	4	29	1.38

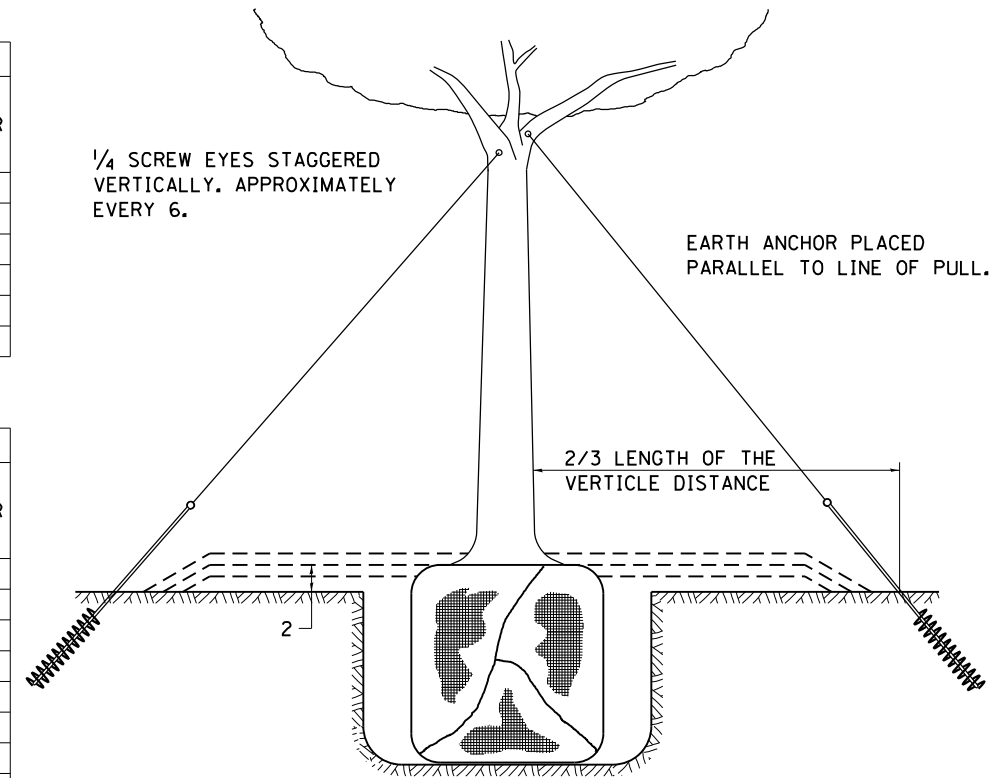


TREES OVER 4 1/2 IN DIAMETER



PLANT HARDINESS ZONE MAP

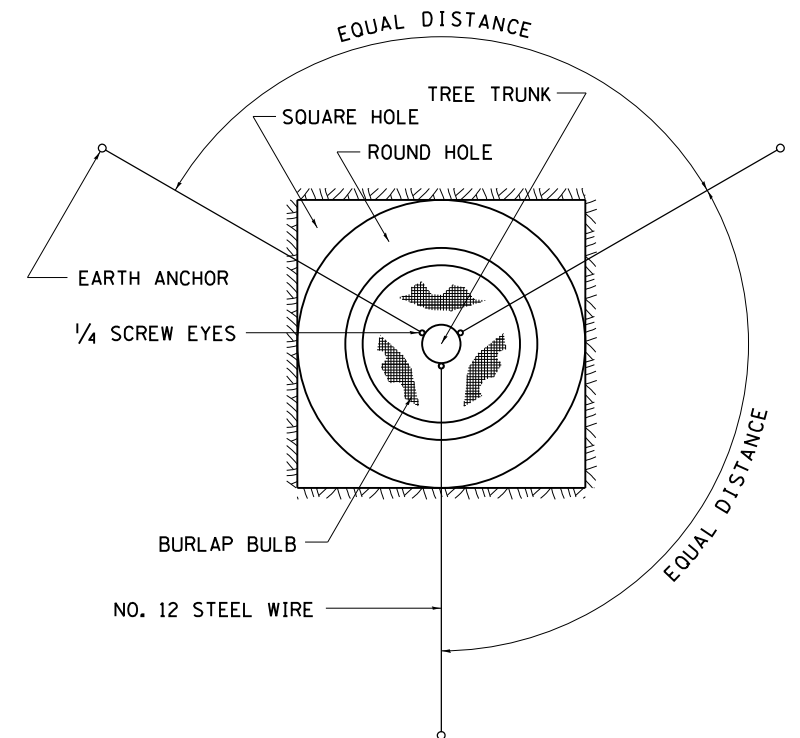
U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814



1/4 SCREW EYES STAGGERED VERTICALLY. APPROXIMATELY EVERY 6.

EARTH ANCHOR PLACED PARALLEL TO LINE OF PULL.

2/3 LENGTH OF THE VERTICLE DISTANCE



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

DETAILS OF PLANTING AND BRACING TREES 92.1

FILE NAME =	USER NAME = ditzlerse	DESIGNED -	REVISED - 10-18-11
ci:\pw\work\p\idot\ditzlerse\0277441\0206911-shr-cover.dgn		DRAWN -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

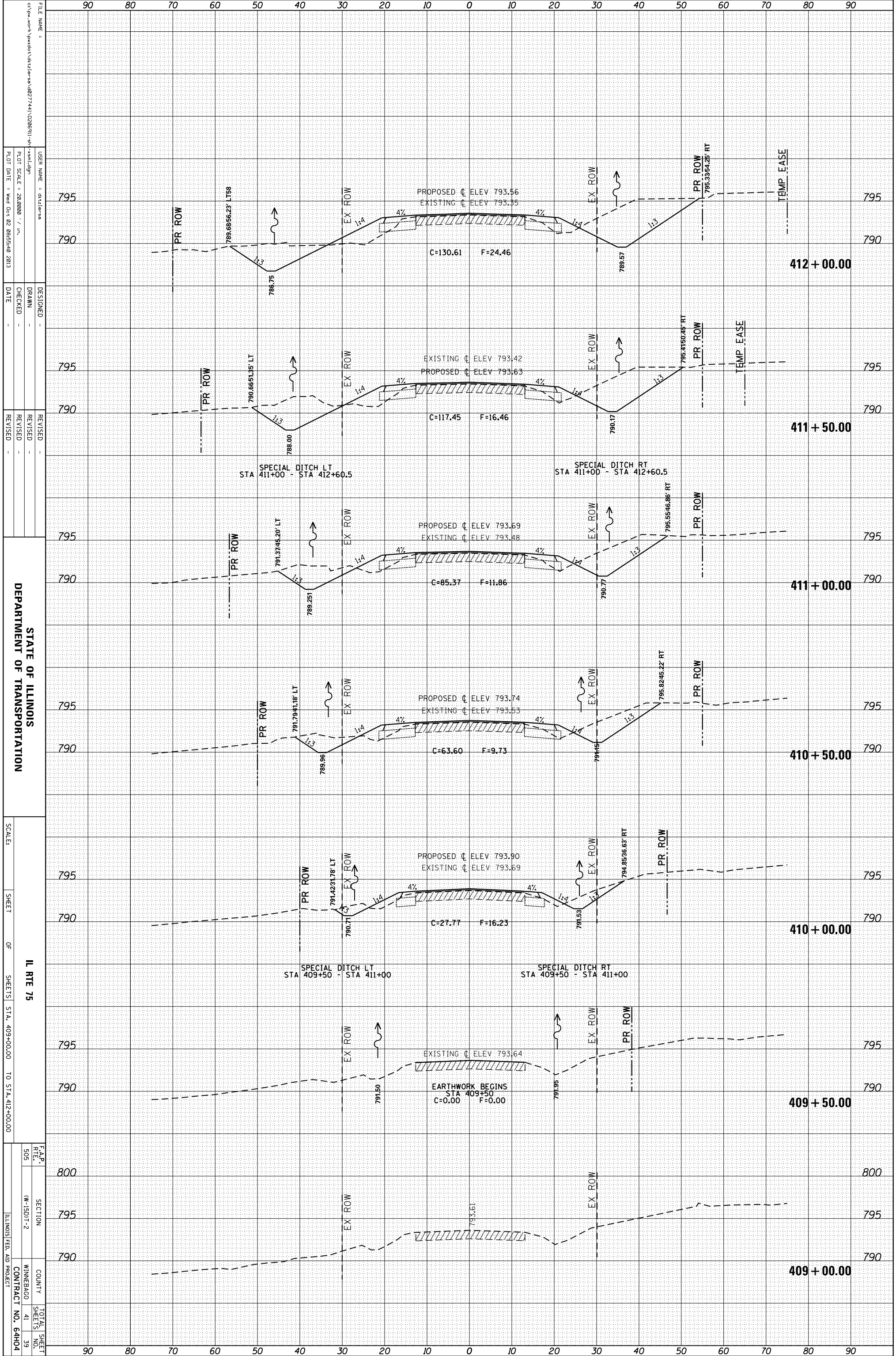
REGION 2 / DISTRICT 2 STANDARD

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
505	(W-15D)T-2	WINNEBAGO	41	38
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64H04	

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

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



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DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISID -
 REVISID -
 REVISID -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

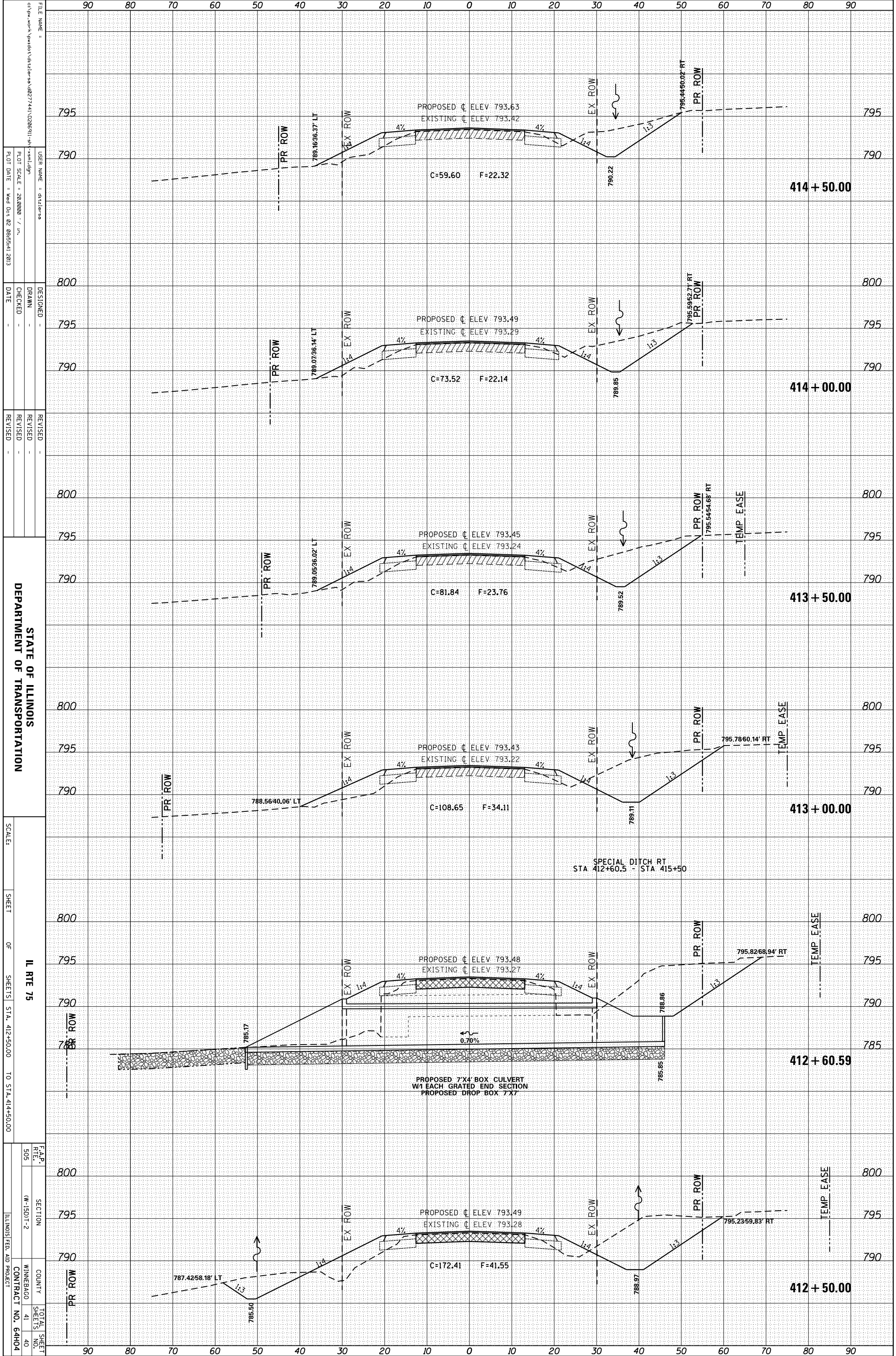
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IL RTE 75

F.A.P. R.T.E. 505 SECTION (W-150)T-2 COUNTY WINNEBAGO TOTAL SHEETS 41 SHEET NO. 39 CONTRACT NO. 64H04 ILLINOIS FED. AID PROJECT

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

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



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DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISOR -
 REVISION -
 REVISION -
 REVISION -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. 412+50.00 TO STA. 414+50.00

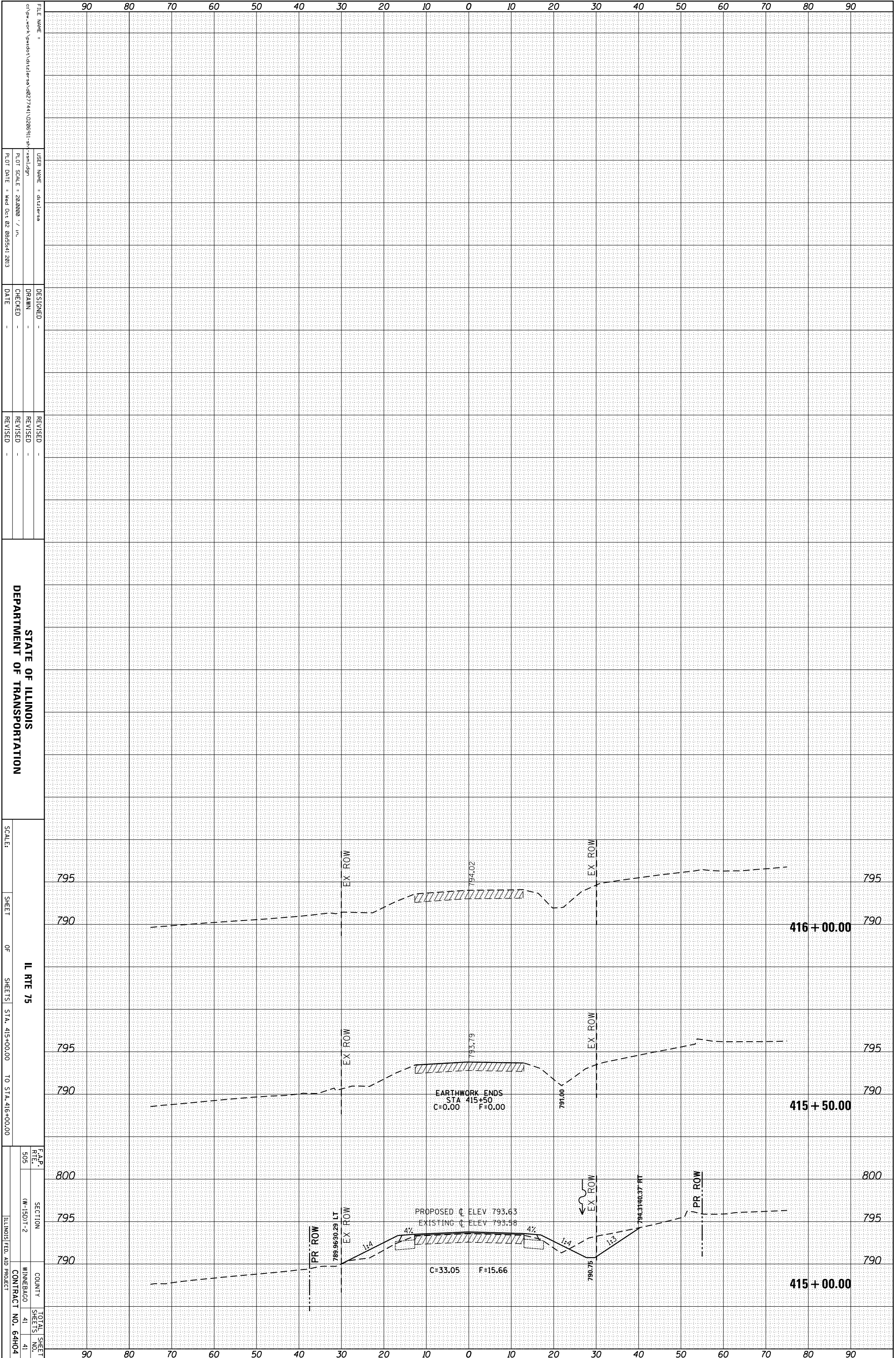
IL RTE 75

F.A.P. SECTION COUNTY TOTAL SHEETS NO. 505 (W-150)T-2 WINNEBAGO 41 40

ILLINOIS FED. AID PROJECT CONTRACT NO. 64H04

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

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



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DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISID -
 REVISID -
 REVISID -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. 415+00.00 TO STA. 416+00.00

IL RTE 75

F.A.P. 505
 SECTION (M-150)T-2
 COUNTY WINNEBAGO
 CONTRACT NO. 64H04

TOTAL SHEET NO. 41