

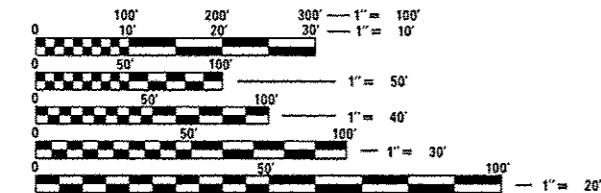
04-24-2015 LETTING ITEM 044

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

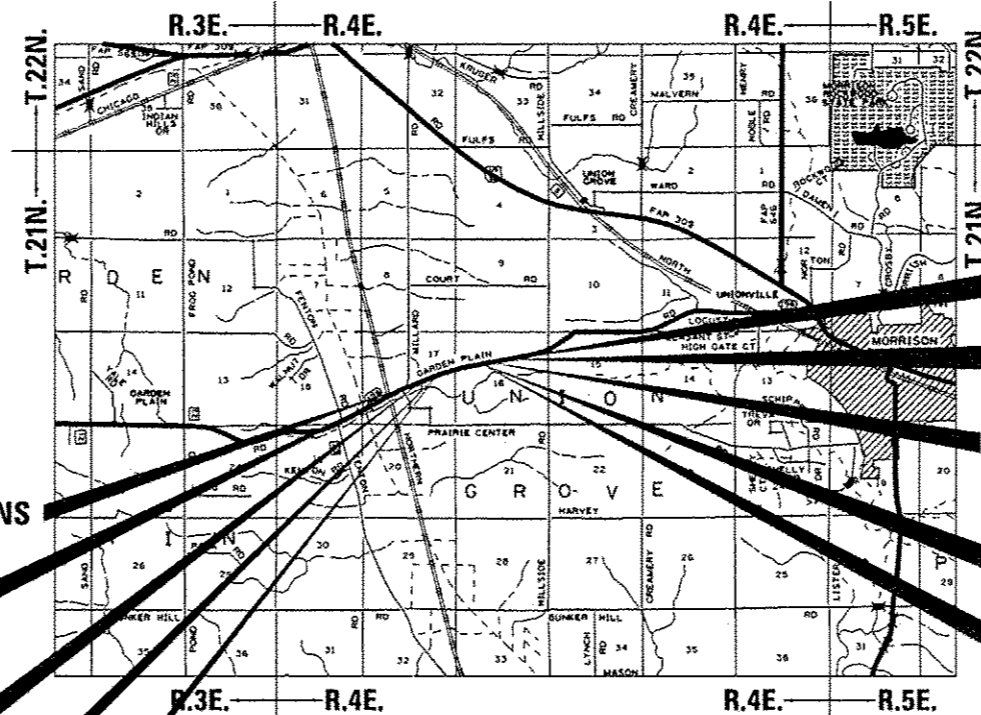
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

CONTRACT NO. 64H60

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PROPOSED
HIGHWAY PLANS**

FAS ROUTE 196 (GARDEN PLAIN ROAD)
SECTION (0-2MFT)T
PROJECT *ACRS-0196(103)*
WHITESIDE COUNTY

C-92-126-13



IMPROVEMENT BEGINS
STA. 325 + 75
PROJECT BEGINS
STA. 327 + 25
STA. 327 + 76
EX SN: 098-1059
PR SN: 098-1076
PROJECT ENDS
STA. 328 + 30
IMPROVEMENT ENDS
STA. 329 + 75

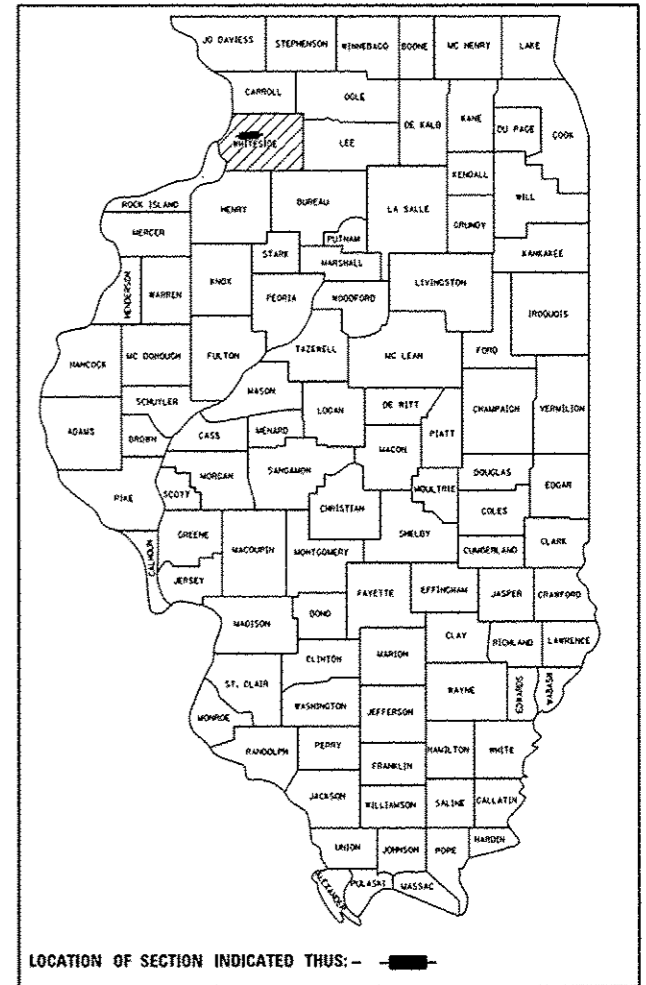
IMPROVEMENT ENDS
STA. 367 + 00
PROJECT ENDS
STA. 365 + 55
STA. 365 + 15
EX SN: 098-1058
PR SN: 098-1075
PROJECT BEGINS
STA. 364 + 75
IMPROVEMENT BEGINS
STA. 362 + 75

UNION GROVE TOWNSHIP SECTION 16&17

GROSS LENGTH = 185 FT. = 0.035 MILE
NET LENGTH = 185 FT. = 0.035 MILE

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
196	(0-2MFT)T	WHITESIDE	61	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 64H60		

D-92-032-12



LOCATION OF SECTION INDICATED THUS: —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED JAN 23 2015
Paul A. Soeter
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Mar 20 2015
John D. Baranzelli PE, Inc.
ENGINEER OF DESIGN AND ENVIRONMENT
Mar 20 2015
Omer Osman PE, Inc.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PROJECT ENGINEER - REBECCA MARRUFFO

SQUAD LEADER - ROB BATES (815)284-5464

SUMMARY OF QUANTITIES

	CODE NUMBER	ITEM	UNIT	80% FED 20% STATE 0040 TOTAL QUANTITY
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	276
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	92
	20200100	EARTH EXCAVATION	CU YD	1,465
*	25000100	SEEDING, CLASS 1	ACRE	0.25
*	25000210	SEEDING, CLASS 2A	ACRE	0.75
*	25000310	SEEDING, CLASS 4	ACRE	0.50
Δ	25000750	MOWING	ACRE	0.95
*	25100630	EROSION CONTROL BLANKET	SQ YD	7,260
*	25100900	TURF REINFORCEMENT MAT	SQ YD	36
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1050
	28000305	TEMPORARY DITCH CHECKS	FOOT	450
	28000400	PERIMETER EROSION BARRIER	FOOT	261
	28000500	INLET & PIPE PROTECTION	EACH	5
	28100107	STONE RIPRAP, CLASS A4	SQ YD	102.6
	28200200	FILTER FABRIC	SQ YD	102.4
	35102000	AGGREGATE BASE COURSE, TYPE B, 8"	SQ YD	479
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	57
	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	16
	44201383	CLASS C PATCHES, TYPE IV, 12 INCH	SQ YD	495
	48101200	AGGREGATE SHOULDERS, TYPE B	TON	288
	50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
	50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1
	50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	642
	50800105	REINFORCEMENT BARS	POUND	41,290
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2,630
	51500100	NAME PLATES	EACH	2
	54003000	CONCRETE BOX CULVERTS	CU YD	293.7

* SPECIALTY ITEMS
 Δ 100% STATE

FILE NAME *	USER NAME * bates1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\ Bates1\10030924\102-500.dgn		DRAWN -	REVISED -			196	10-2MFT1T	WHITESIDE	61	2
PLOT SCALE * 100.0000' / 1" =		CHECKED -	REVISED -							
PLOT DATE * Thu Jan 22 15:01:05 2015		DATE -	REVISED -		SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____					CONTRACT NO. 64H60
										ILLINOIS FED. AID PROJECT

Rev.

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	80% FED 20% STATE 0040 TOTAL QUANTITY
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	47
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	48
542D0235	PIPE CULVERTS, CLASS D, TYPE 1 30"	FOOT	40
54213450	END SECTIONS 15"	EACH	2
54213453	END SECTIONS 18"	EACH	2
54260311	TRAVERSABLE PIPE GRATE	FOOT	806
60100060	CONCRETE HEADWALLS FOR PIPE DRAIN	EACH	6
60100925	PIPE DRAINS 8"	FOOT	61
60100935	PIPE DRAINS 10"	FOOT	17
60107600	PIPE UNDERDRAINS 4"	FOOT	173
61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	3
63500105	DELINEATORS	EACH	4
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	20
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3
67100100	MOBILIZATION	L SUM	1
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,115
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	3
* A2000114	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	7
* A2002914	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	7
* A2005814	TREE, PLATANUS OCCIDENTALIS (SYCAMORE), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	7
* A2006514	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	7
X0325358	SLOPED METAL END SECTION WITH GRATE, 30 INCH	EACH	2
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0025505	PROPERTY MARKERS	EACH	1
* Z0054500	ROCK FILL	TON	1306

2* * SPECIALTY ITEMS
 Δ 100% STATE

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 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.

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.

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:

	Mainline
Mixture Uses(s):	Surface
PG:	RG 64-22
Design Air Voids	3.0 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5
Friction Aggregate	C
20 Year ESAL	0.2
Quality Management Program to be used	QC/QA

* On projects with less than 2000 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.

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 327+76 → 098-1076; 365+15 → 098-1075.

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.

A Precast Box Culvert is not an option on the project due to soil conditions.

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.

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.

The underdrain system scheduled on this project is to be constructed in accordance with Section 601 of the Standard Specifications for Road and Bridge Construction, except CA 16 shall be used in lieu of FA 1 or FA 2 for trench backfill. The CA 16 shall be according to Article 1004.05 and Article 1004.01 of the Standard Specifications, except in the table, Course Aggregate Gradation, the percent passing the No. 16 sieve shall be 4 ± 4%. 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.

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.

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 Hot-Mix Asphalt Surface Course, Mix "C", N50 of the type specified.

FILE NAME = 64H60 GH.DOCX	USER NAME *	DESIGNED - Engineering Systems	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE *	CHECKED -	REVISED -			FAS 196	(0-2MFT)T	Whateoide	61	4
	PLOT DATE = 1/23/2015 10:19 AM	DATE - 3/24/2014 1:02 PM	REVISED -			(Garden Plain Rd.)		CONTRACT NO. 64H60		
					SCALE:	SHEET NO.	OF	SHEETS	STA	TO STA
								ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

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: 2 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.

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.

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:

Mediacom (309/743-4750)
Frontier Legacy (815/772-2078)

Commonwealth Edison Co. (815/490-2869)

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.

Tree planting layout shall be performed by the District Roadside Management Specialist. 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 within the Garden Plain Road project limits shall be planted at alternative locations as determined by the District Roadside Management Specialist.

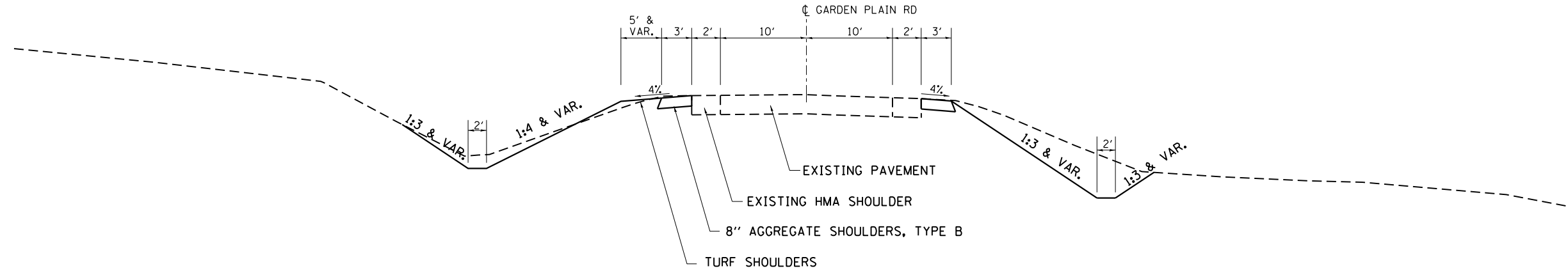
COMMITMENTS

1. Prior to removing the existing fence from the property of Patricia Rizzo, Trustee, the Contractor shall erect a corner post at each of the two points of intersection with the proposed right-of-way line (approximately Sta. 326+90 at 40' RT and Sta. 327+61 at 67' RT) and secure the existing wires to the new post (see Commitment File).

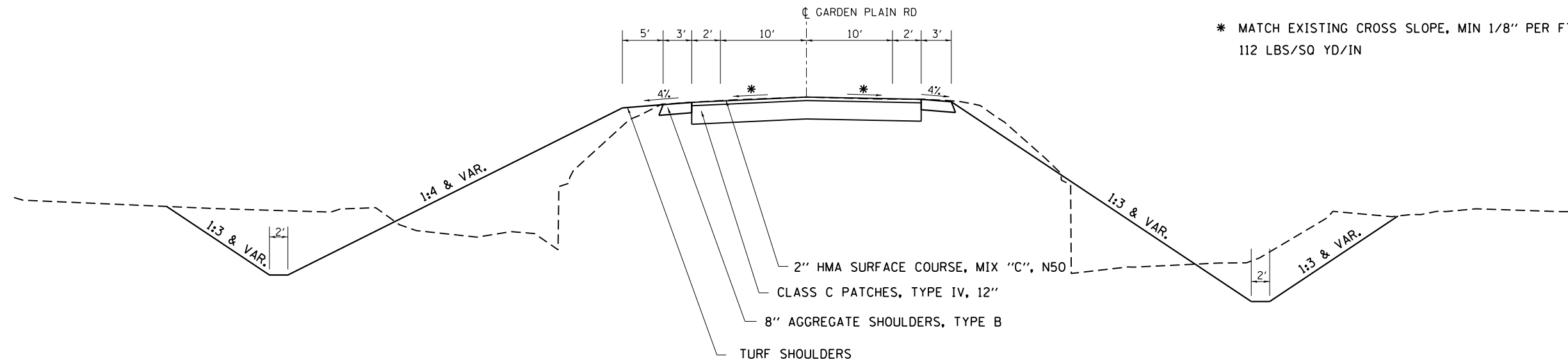
FILE NAME = 64H60 GN.DOCX	USER NAME *	DESIGNED - Engineering Systems	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES				ROUTE	SECTION	COUNTY	DISTRICT SHEETS	SHEET NO.
	PLOT SCALE *	DRAWN -	REVISED -						FAS 196	(0-2MFT)	Whiteside	61	5
	PLOT DATE = 1/23/2015 10:10 AM	CHECKED -	REVISED -		(Garden Plain Rd.)	CONTRACT NO. 64H60		ILLINOIS		FED. AID PROJECT			
	PLOT DATE	DATE	REVISED	SCALE	SHEET NO.	OF	SHEETS	STA.	TO STA.				

TYPICAL SECTIONS

STA. 325+75 - 327+25
 STA. 328+30 - 329+75



STA. 327+25 - 328+30



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PLOT DATE = Wed Jan 21 09:50:37 2015		DATE -	REVISD -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

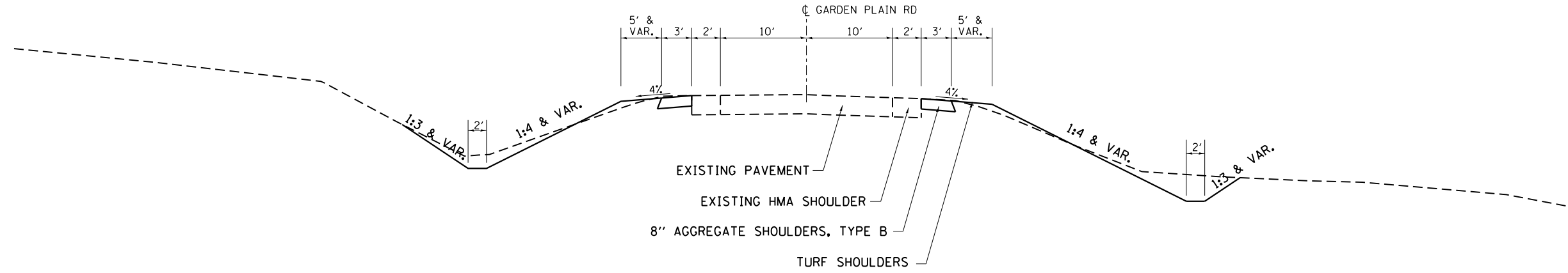
TYPICAL SECTIONS

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

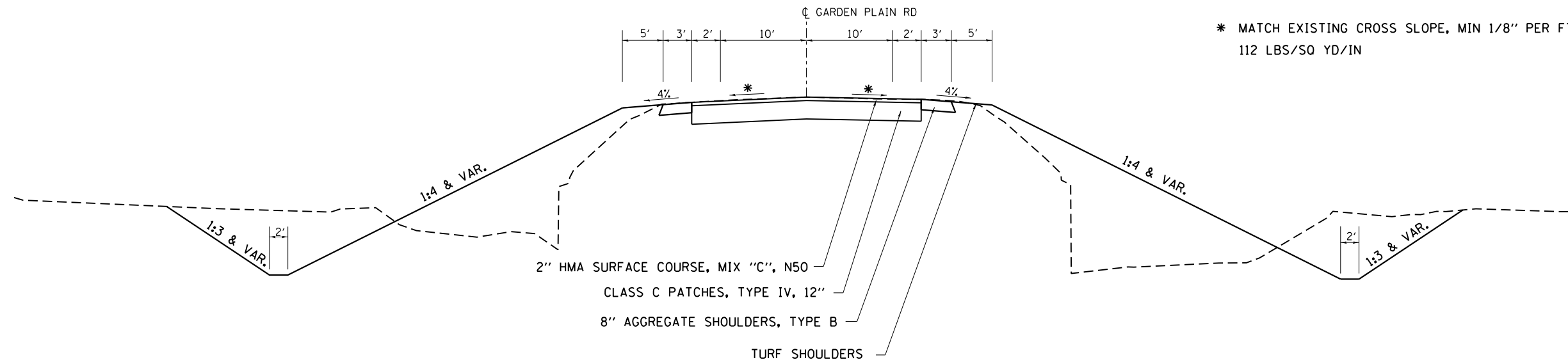
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
196	(0-2MFT)T	WHITESIDE	61	6
CONTRACT NO. 64H60			ILLINOIS FED. AID PROJECT	

TYPICAL SECTIONS

STA. 362+75 - 364+75
 STA. 365+55 - 367+00



STA. 364+75 - 365+55



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PLOT DATE = Wed Jan 21 09:51:39 2015		DATE -	REVISD -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
196	(0-2MFT)T	WHITESIDE	61	7
CONTRACT NO. 64H60			ILLINOIS FED. AID PROJECT	

SCHEDULE OF QUANTITIES

40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING <u>LOCATION</u> PE 363+39	LT	<u>TON</u> 16	TOTAL	16	<u>COMMENTS</u> PLACED AT 2 IN THICKNESS	54213450	END SECTIONS 15" <u>LOCATION</u> FE 363+28	RT	<u>FOOT</u> 2	TOTAL	2	<u>COMMENTS</u>
44201383	CLASS C PATCHES, TYPE IV, 12 INCH <u>LOCATION</u> STA 327+25 TO 328+30 STA 364+75 TO 365+55		<u>SQ YD</u> 280 215	TOTAL	495	<u>COMMENTS</u>	54213453	END SECTIONS 18" <u>LOCATION</u> PE 363+39	LT	<u>FOOT</u> 2	TOTAL	2	<u>COMMENTS</u>
48101200	AGGREGATE SHOULDERS, TYPE B <u>LOCATION</u> STA 325+75 TO 329+75 STA 362+50 TO 367+00	LT & RT LT & RT	<u>TON</u> 136 152	TOTAL	288	<u>COMMENTS</u>	54260311	TRAVERSABLE PIPE GRATE <u>LOCATION</u> STA 327+76 STA 327+76 STA 365+15 STA 365+15	LT RT LT RT	<u>FOOT</u> 122 112 256 316	TOTAL	806	<u>COMMENTS</u>
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1 <u>LOCATION</u> STA 327+63		<u>EACH</u> 1	TOTAL	1	<u>COMMENTS</u> SEE SPECIAL PROVISIONS FOR DETAILS	60100060	CONCRETE HEADWALLS FOR PIPE DRAINS <u>LOCATION</u> STA 328+30 STA 364+75 STA 365+55		<u>EACH</u> 2 2 2	TOTAL	6	<u>COMMENTS</u> SEE DISTRICT STD. 37.2 FOR LOCATIONS SEE DISTRICT STD. 37.2 FOR LOCATIONS SEE DISTRICT STD. 37.2 FOR LOCATIONS
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2 <u>LOCATION</u> STA 365+15		<u>EACH</u> 1	TOTAL	1	<u>COMMENTS</u> SEE SPECIAL PROVISIONS FOR DETAILS	60100925	PIPE DRAINS 8" <u>LOCATION</u> STA 365+08 STA 365+50	LT LT	<u>FOOT</u> 22 39	TOTAL	61	<u>COMMENTS</u> LOCATION TO BE DETERMINED IN THE FIELD LOCATION TO BE DETERMINED IN THE FIELD
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES <u>LOCATION</u> STA 327+76 STA 365+15		<u>CU YD</u> 172 470	TOTAL	642	<u>COMMENTS</u>	60100935	PIPE DRAINS 10" <u>LOCATION</u> STA 365+30	LT	<u>FOOT</u> 17	TOTAL	17	<u>COMMENTS</u> LOCATION TO BE DETERMINED IN THE FIELD
50800205	REINFORCEMENT BARS <u>LOCATION</u> STA 327+76 STA 365+15		<u>POUND</u> 14400 26890	TOTAL	41290	<u>COMMENTS</u>	60107600	PIPE UNDERDRAINS 4" <u>LOCATION</u> STA 328+30 STA 364+75 STA 365+55		<u>FOOT</u> 53 60 60	TOTAL	173	<u>COMMENTS</u> SEE DISTRICT STD. 37.2 FOR LOCATIONS SEE DISTRICT STD. 37.2 FOR LOCATIONS SEE DISTRICT STD. 37.2 FOR LOCATIONS
50800205	REINFORCEMENT BARS, EPOXY COATED <u>LOCATION</u> STA 327+76 STA 365+15		<u>POUND</u> 1420 1210	TOTAL	2630	<u>COMMENTS</u>	61133200	FIELD TILE JUNCTION VAULTS, 3' DIA. <u>LOCATION</u> STA 365+00 STA 365+33 STA 365+71	LT LT LT	<u>EACH</u> 1 1 1	TOTAL	3	<u>COMMENTS</u> LOCATION TO BE DETERMINED IN THE FIELD LOCATION TO BE DETERMINED IN THE FIELD LOCATION TO BE DETERMINED IN THE FIELD
51500100	NAME PLATES <u>LOCATION</u> STA 327+76 STA 365+15		<u>EACH</u> 1 1	TOTAL	2	<u>COMMENTS</u>	63500105	DELINEATORS <u>LOCATION</u> STA 327+76 STA 365+15	LT & RT LT & RT	<u>EACH</u> 2 2	TOTAL	4	<u>COMMENTS</u>
54003000	CONCRETE BOX CULVERTS <u>LOCATION</u> STA 327+76 STA 365+15		<u>CU YD</u> 109.0 185.0	TOTAL	294.0	<u>COMMENTS</u>	542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15" <u>LOCATION</u> FE 363+28	RT	<u>FOOT</u> 47	TOTAL	47	<u>COMMENTS</u>
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15" <u>LOCATION</u> FE 363+28	RT	<u>FOOT</u> 47	TOTAL	47	<u>COMMENTS</u>	542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18" <u>LOCATION</u> PE 363+39	LT	<u>FOOT</u> 48	TOTAL	48	<u>COMMENTS</u>
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18" <u>LOCATION</u> PE 363+39	LT	<u>FOOT</u> 48	TOTAL	48	<u>COMMENTS</u>	542D0235	PIPE CULVERTS, CLASS D, TYPE 1 30" <u>LOCATION</u> FE 366+00	RT	<u>FOOT</u> 40	TOTAL	40	<u>COMMENTS</u>
542D0235	PIPE CULVERTS, CLASS D, TYPE 1 30" <u>LOCATION</u> FE 366+00	RT	<u>FOOT</u> 40	TOTAL	40	<u>COMMENTS</u>							

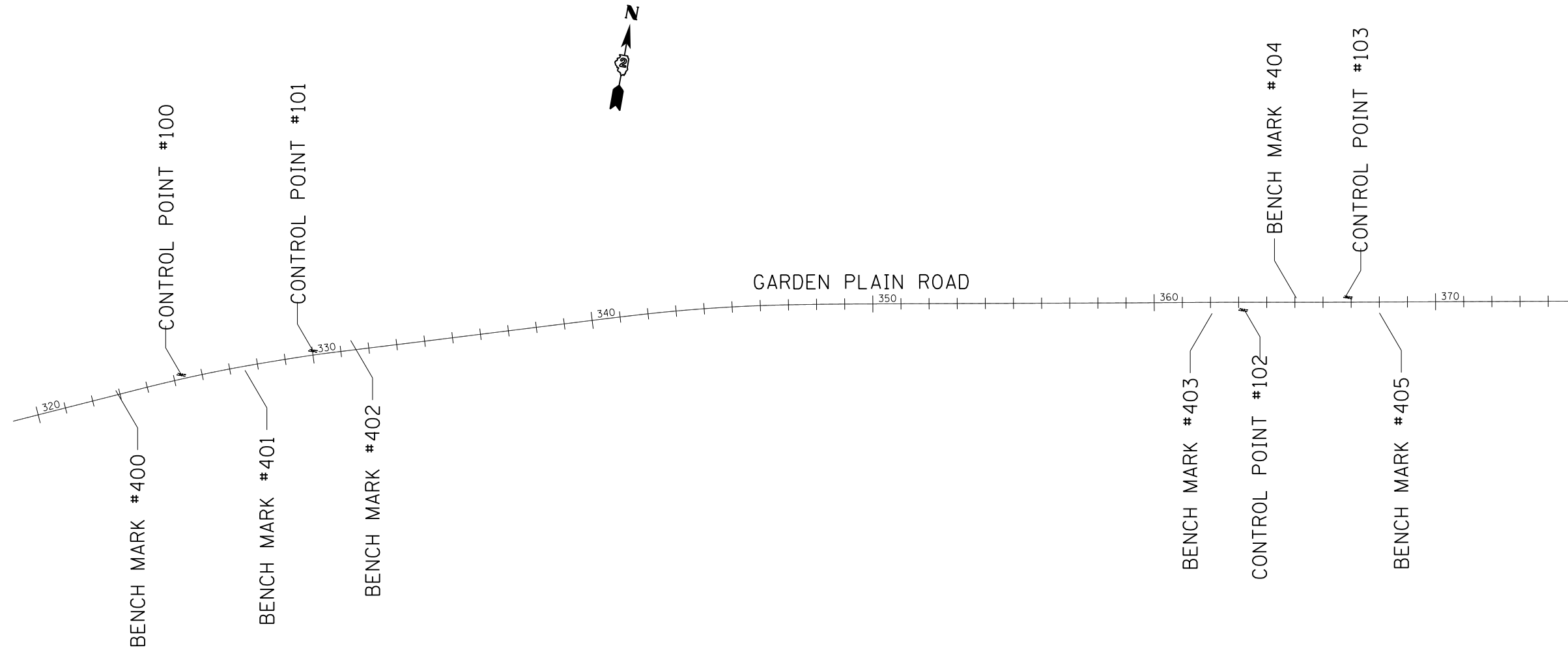
SCHEDULE OF QUANTITIES

66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS <u>LOCATION</u>	<u>EACH</u>	<u>COMMENTS</u>
	STA 326+00 40' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 326+90 40' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 327+00 50' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 327+25 75' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 328+30 85' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 328+75 40' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 329+25 40' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 362+00 39' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 363+00 41' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 363+00 50' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 363+75 55' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 364+00 55' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 364+75 55' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 364+85 75' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 365+00 80' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 365+30 80' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 365+50 75' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 365+75 50' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 366+75 42' LT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	STA 367+00 38' RT	1	SEE GENERAL NOTE FOR INSTALLATION METHOD
	TOTAL	20	
66700305	PERMANENT SURVEY MARKERS, TYPE II <u>LOCATION</u> TO BE DETERMINED IN THE FIELD	<u>EACH</u>	<u>COMMENTS</u>
		2	LOCATION DETERMINED BY DISTRICT CHIEF OF SURVEYS
	TOTAL	2	
78001110	PAINT PAVEMENT MARKING - LINE 4" <u>LOCATION</u>	<u>FOOT</u>	<u>COMMENTS</u>
	STA 327+25 TO 328+30 YELLOW (2 APL.)	55	SKIP DASH CENTER
	STA 364+75 TO 365+55 YELLOW (2 APL.)	320	DOUBLE SOLID
	TOTAL YELLOW	375	
	STA 327+25 TO 328+30 WHITE (2 APL.)	420	LT & RT EDGE LINES
	STA 364+75 TO 365+55 WHITE (2 APL.)	320	LT & RT EDGE LINES
	TOTAL WHITE	740	
	TOTAL	1115	
78100100	RAISED REFLECTIVE PAVEMENT MARKER <u>LOCATION</u>	<u>EACH</u>	<u>COMMENTS</u>
	STA 327+25 TO 328+30	2	TWO-WAY AMBER @ 80' CENTERS
	STA 364+75 TO 365+55	1	TWO-WAY AMBER @ 80' CENTERS
	TOTAL	3	
X0325358	SLOPED METAL END SECTION WITH GRATE, 30 INCH <u>LOCATION</u>	<u>EACH</u>	<u>COMMENTS</u>
	FE 366+00 RT	2	
	TOTAL	2	
Z0025505	PROPERTY MARKERS <u>LOCATION</u>	<u>EACH</u>	<u>COMMENTS</u>
	STA 327+60 67' RT	1	
	TOTAL	1	
Z0054500	ROCK FILL <u>LOCATION</u>	<u>TON</u>	<u>COMMENTS</u>
	STA 327+76	258	
	STA 365+15	1048	
	TOTAL	1306	

EARTHWORK SCHEDULE

			20200100			
LOCATION			EARTH	EXCAVATION	EMBANKMENT	EARTHWORK
			EXCAVATION	ADJUSTED FOR SHRINKAGE		BALANCE
			(CU YD)	(CU YD)	(CU YD)	WASTE (+) SHORTAGE (-)
GARDEN PLAIN RD						
325+75.00	TO	329+75.00	490	370	390	-20
362+75.00	TO	367+00.00	975	730	510	220
TOTALS			1465	1100	900	200

HORIZONTAL & VERTICAL CONTROL



CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
GRDANPLN	WHA1410	WHA1410	WHA1411	WHA1412	WHA1413
GRDANPLN	WHA1420	WHA1420	WHA1421	WHA1413	WHA1423
GRDANPLN	WHA1430	WHA1430	WHA1431	WHA1423	WHA1433
GRDANPLN	WHA1440	WHA1440	WHA1441	WHA1433	WHA1443
GRDANPLN	WHA1460	WHA1460	WHA1461	WHA1462	WHA1463
GRDANPLN	WHA1470	WHA1470	WHA1471	WHA1463	WHA1473
GRDANPLN	WHA1480	WHA1480	WHA1481	WHA1473	WHA1483
GRDANPLN	WHA1490	WHA1490	WHA1491	WHA1492	WHA1493
GRDANPLN	WHA1500	WHA1500	WHA1501	WHA1493	WHA1503
GRDANPLN	WHA1510	WHA1510	WHA1511	WHA1503	WHA1512
GRDANPLN	WHA1520	WHA1520	WHA1521	WHA1522	WHA1523

HORIZONTAL & VERTICAL CONTROL

Chain GRDANPLN contains:

WHA 1403 CUR WHA 1410 CUR WHA1420 CUR WHA1430 CUR WHA1440 CUR WHA1450
 CUR WHA1460 CUR WHA1470 CUR WHA1480 CUR WHA1490 CUR WHA1500 CUR WHA1510 WHA 1522

Beginning chain GRDANPLN description

Point WHA1403 N 1,872,242.1445 E 2,324,519.0643 Sta 318+35.07

Course from WHA1403 to PC WHA1410 N65° 45' 24.3115" E Dist 544.3848

Curve Data

Curve WHA1410
 P.I. Station 324+97.5138 N 1,872,514.1446 E 2,325,123.0721
 Delta = 2° 26' 09.6876" (RT)
 Degree = 1° 01' 55.2010"
 Tangent = 118.0422
 Length = 236.0488
 Radius = 5,551.9151
 External = 1.2547
 Long Chord = 236.0310
 Mid. Ord. = 1.2545
 P.C. Station 323+79.4716 N 1,872,465.6751 E 2,325,015.4401
 P.T. Station 326+15.5204 N 1,872,557.9955 E 2,325,232.6671
 C.C. = N 1,867,403.3809 E 2,327,295.1196
 Back = N 65° 45' 24.3115" E
 Ahead = N 68° 11' 33.9991" E
 Chord Bear = N 66° 58' 29.1553" E

Curve Data

Curve WHA1420
 P.I. Station 326+99.0795 N 1,872,589.0364 E 2,325,310.2466
 Delta = 2° 01' 00.9467" (RT)
 Degree = 1° 12' 25.2483"
 Tangent = 83.5591
 Length = 167.1008
 Radius = 4,746.9050
 External = 0.7354
 Long Chord = 167.0922
 Mid. Ord. = 0.7353
 P.C. Station 326+15.5204 N 1,872,557.9955 E 2,325,232.6671
 P.T. Station 327+82.6213 N 1,872,617.3277 E 2,325,388.8705
 C.C. = N 1,868,150.7837 E 2,326,996.0705
 Back = N 68° 11' 33.9991" E
 Ahead = N 70° 12' 34.9458" E
 Chord Bear = N 69° 12' 04.4724" E

Curve Data

Curve WHA1430
 P.I. Station 328+66.0841 N 1,872,645.5864 E 2,325,467.4038
 Delta = 0° 55' 26.6430" (RT)
 Degree = 0° 33' 12.9332"
 Tangent = 83.4628
 Length = 166.9220
 Radius = 10,349.8103
 External = 0.3365
 Long Chord = 166.9201
 Mid. Ord. = 0.3365
 P.C. Station 327+82.6213 N 1,872,617.3277 E 2,325,388.8705
 P.T. Station 329+49.5432 N 1,872,672.5749 E 2,325,546.3827
 C.C. = N 1,862,878.7964 E 2,328,893.0938
 Back = N 70° 12' 34.9458" E
 Ahead = N 71° 08' 01.5888" E
 Chord Bear = N 70° 40' 18.2673" E

Curve Data

Curve WHA1440
 P.I. Station 330+14.3250 N 1,872,693.5227 E 2,325,607.6841
 Delta = 1° 52' 55.9119" (RT)
 Degree = 1° 27' 10.2717"
 Tangent = 64.7817
 Length = 129.5518
 Radius = 3,943.6729
 External = 0.5320
 Long Chord = 129.5460
 Mid. Ord. = 0.5320
 P.C. Station 329+49.5432 N 1,872,672.5749 E 2,325,546.3827
 P.T. Station 330+79.0950 N 1,872,712.4458 E 2,325,669.6404
 C.C. = N 1,868,940.7714 E 2,326,821.6074
 Back = N 71° 08' 01.5888" E
 Ahead = N 73° 00' 57.5007" E
 Chord Bear = N 72° 04' 29.5447" E

Course from PT WHA1440 to WHA1450 N 73° 00' 57.5007" E Dist 360.9482

Point WHA1450 N 1,872,817.8806 E 2,326,014.8463 Sta 334+40.0432

Course from WHA1450 to PC WHA1460 N 72° 54' 43.4937" E Dist 569.4484

Curve Data

Curve WHA1460
 P.I. Station 340+88.2940 N 1,873,008.3618 E 2,326,634.4801
 Delta = 0° 34' 33.6353" (RT)
 Degree = 0° 21' 55.7295"
 Tangent = 78.8024
 Length = 157.6035
 Radius = 15,676.8396
 External = 0.1981
 Long Chord = 157.6028
 Mid. Ord. = 0.1981
 P.C. Station 340+09.4916 N 1,872,985.2066 E 2,326,559.1564
 P.T. Station 341+67.0951 N 1,873,030.7586 E 2,326,710.0327
 C.C. = N 1,858,000.4211 E 2,331,165.6198
 Back = N 72° 54' 43.4937" E
 Ahead = N 73° 29' 17.1290" E
 Chord Bear = N 73° 12' 00.3114" E

Curve Data

Curve WHA1470
 P.I. Station 344+32.1122 N 1,873,106.0803 E 2,326,964.1207
 Delta = 5° 21' 19.6121" (RT)
 Degree = 1° 00' 40.0782"
 Tangent = 265.0171
 Length = 529.6483
 Radius = 5,666.4938
 External = 6.1939
 Long Chord = 529.4555
 Mid. Ord. = 6.1872
 P.C. Station 341+67.0951 N 1,873,030.7586 E 2,326,710.0327
 P.T. Station 346+96.7434 N 1,873,157.3582 E 2,327,224.1297
 C.C. = N 1,867,597.9471 E 2,328,320.5331
 Back = N 73° 29' 17.1290" E
 Ahead = N 78° 50' 36.7412" E
 Chord Bear = N 76° 09' 56.9351" E

Curve Data

Curve WHA1480
 P.I. Station 348+29.2249 N 1,873,182.9919 E 2,327,354.1076
 Delta = 0° 55' 50.0268" (RT)
 Degree = 0° 21' 04.3654"
 Tangent = 132.4815
 Length = 264.9572
 Radius = 16,313.7028
 External = 0.5379
 Long Chord = 264.9543
 Mid. Ord. = 0.5379
 P.C. Station 346+96.7434 N 1,873,157.3582 E 2,327,224.1297
 P.T. Station 349+61.7006 N 1,873,206.5113 E 2,327,484.4847
 C.C. = N 1,857,151.9441 E 2,330,380.6495
 Back = N 78° 50' 36.7412" E
 Ahead = N 79° 46' 26.7680" E
 Chord Bear = N 79° 18' 31.7546" E

Course from PT WHA1480 to PC WHA1490 N 79° 46' 26.7680" E Dist 954.8806

Curve Data

Curve WHA1490
 P.I. Station 359+29.4993 N 1,873,378.3242 E 2,328,436.9104
 Delta = 0° 17' 45.8189" (LT)
 Degree = 1° 08' 45.2961"
 Tangent = 12.9181
 Length = 25.8362
 Radius = 5,000.0000
 External = 0.0167
 Long Chord = 25.8362
 Mid. Ord. = 0.0167
 P.C. Station 359+16.5812 N 1,873,376.0308 E 2,328,424.1974
 P.T. Station 359+42.4173 N 1,873,380.6832 E 2,328,449.6113
 C.C. = N 1,878,296.6082 E 2,327,536.5495
 Back = N 79° 46' 26.7680" E
 Ahead = N 79° 28' 40.9490" E
 Chord Bear = N 79° 37' 33.8585" E

Curve Data

Curve WHA1500
 P.I. Station 362+53.3629 N 1,873,437.4657 E 2,328,755.3283
 Delta = 0° 40' 25.6473" (RT)
 Degree = 0° 06' 30.0482"
 Tangent = 310.9456
 Length = 621.8840
 Radius = 52,881.8756
 External = 0.9142
 Long Chord = 621.8804
 Mid. Ord. = 0.9142
 P.C. Station 359+42.4173 N 1,873,380.6832 E 2,328,449.6113
 P.T. Station 365+64.3013 N 1,873,490.6491 E 2,329,061.6919
 C.C. = N 1,821,388.0166 E 2,338,106.4945
 Back = N 79° 28' 40.9490" E
 Ahead = N 80° 09' 06.5964" E
 Chord Bear = N 79° 48' 53.7727" E

FILE NAME =	USER NAME = batesr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL & VERTICAL CONTROL SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pw\work\p\midot\batesr1\10309241\02-shc-ATB.dgn		DRAWN -	REVISED -			196	(0-2MFT)T	WHITESIDE	61	12	
PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -			CONTRACT NO. 64H60					
PLOT DATE = Wed Jan 21 10:51:54 2015		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

HORIZONTAL & VERTICAL CONTROL

Curve Data
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Curve WHA1510
 P.I. Station = 365+81.9052 N 1,873,493.6601 E 2,329,079.0363
 Delta = 0° 24' 12.4147" (LT)
 Degree = 1° 08' 45.2959"
 Tangent = 17.6038
 Length = 35.2075
 Radius = 5,000.0002
 External = 0.0310
 Long Chord = 35.2075
 Mid. Ord. = 0.0310
 P.C. Station = 365+64.3013 N 1,873,490.6491 E 2,329,061.6919
 P.T. Station = 365+99.5088 N 1,873,496.7930 E 2,329,096.3591
 C.C. = 365+81.9052 N 1,878,416.9717 E 2,328,206.5026
 Back = N 80° 09' 06.5964" E
 Ahead = N 79° 44' 54.1817" E
 Chord Bear = N 79° 57' 00.3890" E

Course from PT WHA1510 to PC WHA1520 N 79° 44' 54.1817" E Dist 2,019.2061

Curve Data
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Curve WHA1520
 P.I. Station = 386+84.3411 N 1,873,867.8334 E 2,331,147.9085
 Delta = 0° 22' 33.6323" (RT)
 Degree = 0° 17' 11.3240"
 Tangent = 65.6262
 Length = 131.2519
 Radius = 20,000.0006
 External = 0.1077
 Long Chord = 131.2517
 Mid. Ord. = 0.1077
 P.C. Station = 386+18.7149 N 1,873,856.1538 E 2,331,083.3300
 P.T. Station = 387+49.9668 N 1,873,879.0889 E 2,331,212.5622
 C.C. = 386+84.3411 N 1,854,175.4397 E 2,334,642.7561
 Back = N 79° 44' 54.1817" E
 Ahead = N 80° 07' 27.8139" E
 Chord Bear = N 79° 56' 10.9978" E

Course from PT WHA1520 to WHA1522 N 80° 07' 27.8139" E Dist 280.7832

 Ending chain GRDANPLN description

FILE NAME =	USER NAME = batesr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HORIZONTAL & VERTICAL CONTROL SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw\work\p1dot\batesr1\d0309241\02-shk-atb.dgn		DRAWN -	REVISED -			196	(0-2MFT)T	WHITESIDE	61	13	
		CHECKED -	REVISED -			CONTRACT NO. 64H60					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____							

HORIZONTAL & VERTICAL CONTROL

HORIZONTAL CONTROL POINTS							
POINT	NORTHING	EASTING	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
WHA100	1872538.5350	2325145.4270	632.6403	GRDANPLN	325+27.53	15.0397' LT	GPS CONTROL POINT, PIN
WHA101	1872703.7200	2325591.4350	637.4498	GRDANPLN	330+02.04	15.2546' LT	GPS CONTROL POINT, PIN
WHA102	1873420.2130	2328822.2740	671.0825	GRDANPLN	363+16.23	27.8672' RT	GPS CONTROL POINT, PIN
WHA103	1873529.6720	2329180.8120	670.4651	GRDANPLN	366+88.47	17.3239' LT	GPS CONTROL POINT, PIN
WHA104	1876235.6930	2344178.3187	660.1044	GRDANPLN	523+42.44	57.9236' LT	GPS CONTROL POINT, NAIL

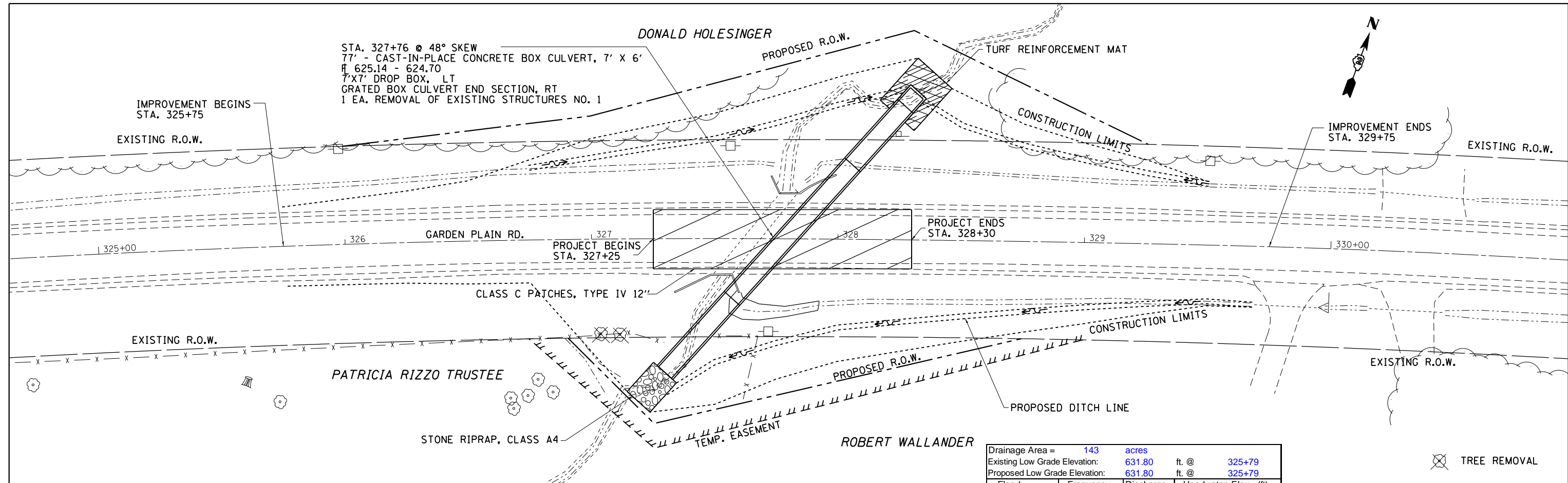
BENCH MARKS							
POINT	NORTHING	EASTING	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
WHA400	1872443.3169	2324925.7592	630.2665	GRDANPLN	322+88.52	16.4375' LT	HEADWALL, CHISELED SQUARE
WHA401	1872593.4151	2325365.8031	634.0011	GRDANPLN	327+52.73	14.5963' RT	HEADWALL, CHISELED SQUARE
WHA402	1872763.3357	2325717.1813	643.8627	GRDANPLN	331+39.43	34.7835' LT	POWER POLE, RR SPIKE
WHA403	1873389.3183	2328715.4785	672.4296	GRDANPLN	362+05.59	39.4064' RT	POWER POLE, RR SPIKE
WHA404	1873495.0008	2329000.7796	669.2973	GRDANPLN	365+05.05	14.7391' LT	HEADWALL, CHISELED SQUARE
WHA405	1873494.3259	2329300.8555	675.9880	GRDANPLN	368+00.30	38.8222' RT	POWER POLE, RR SPIKE
WHA410	1869589.1705	2317306.6535	656.9817	GRDANPLN	239+99.68	19.7629' RT	HEADWALL, CHISELED SQUARE
WHA411	1870148.8817	2320457.0028	614.9425	GRDANPLN	272+64.46	39.6336' RT	RIGHT OF WAY MARKER, TOP
WHA412	1871603.8837	2323218.5703	611.2724	GRDANPLN	303+86.03	16.1813' RT	RR SIGNAL FOUNDATION, CHISELED SQUARE

SURVEY WORK POINTS							
POINT	NORTHING	EASTING	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
WHA105	1873044.4686	2328764.0802	661.9576	GRDANPLN	361+92.13	387.4022' RT	TOPO SURVEY POINT, NAIL
WHA106	1873083.3175	2328882.2895	662.5330	GRDANPLN	363+16.14	370.0666' RT	TOPO SURVEY POINT, NAIL
WHA107	1873082.6368	2329021.3568	663.0202	GRDANPLN	364+53.95	394.9870' RT	TOPO SURVEY POINT, NAIL
WHA108	1873266.5781	2328973.0422	664.9394	GRDANPLN	364+38.14	205.4569' RT	TOPO SURVEY POINT, NAIL
WHA109	1873327.8590	2329041.6726	665.4514	GRDANPLN	365+16.59	156.9458' RT	TOPO SURVEY POINT, NAIL
WHA110	1873431.2511	2329048.2019	666.1452	GRDANPLN	365+40.83	56.2103' RT	TOPO SURVEY POINT, NAIL
WHA111	1873673.1807	2328819.3987	677.7699	GRDANPLN	363+57.66	221.6886' LT	TOPO SURVEY POINT, NAIL
WHA112	1873035.9139	2325596.9290	638.5575	GRDANPLN	331+04.04	330.5998' LT	TOPO SURVEY POINT, NAIL
WHA113	1872526.6980	2325361.7884	630.4894	GRDANPLN	327+25.54	75.7698' RT	TOPO SURVEY POINT, NAIL
WHA114	1873128.6877	2325612.6362	641.1045	GRDANPLN	331+46.16	414.7393' LT	TOPO SURVEY POINT, NAIL
WHA115	1872342.5413	2325344.2706	626.6354	GRDANPLN	326+40.36	241.4334' RT	TOPO SURVEY POINT, NAIL
WHA116	1872237.2452	2325376.3239	624.0604	GRDANPLN	326+30.88	351.1404' RT	TOPO SURVEY POINT, NAIL

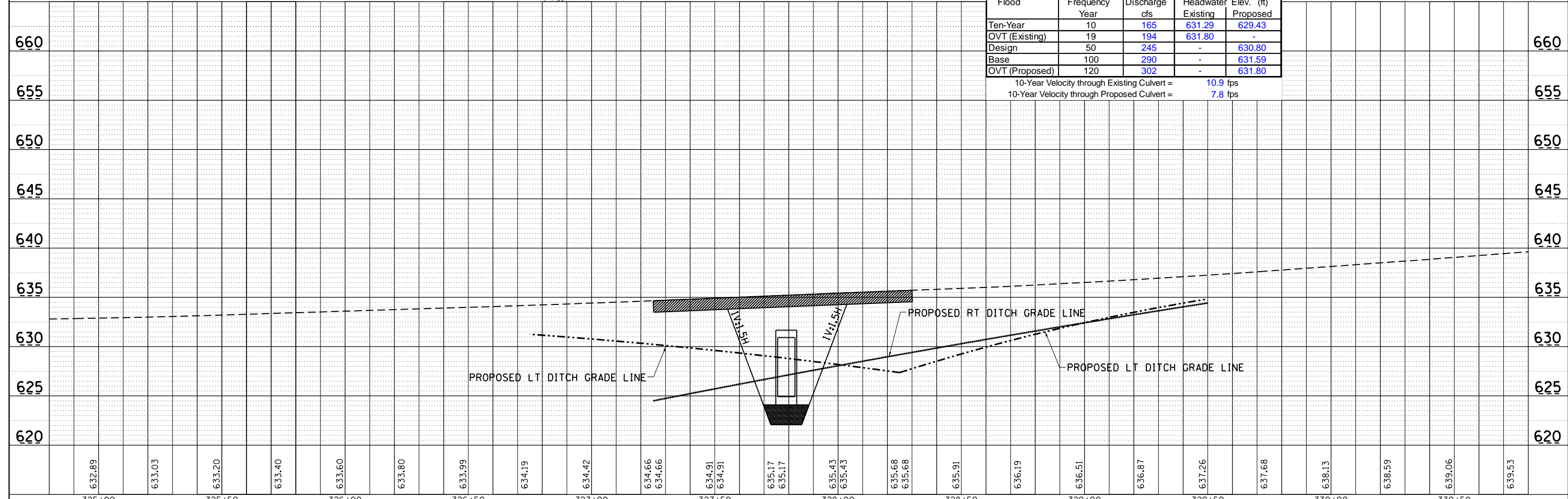
REFERENCE TIES							
POINT	NORTHING	EASTING	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
WHA500	1872522.5034	2325050.1624	634.6329	GRDANPLN	324+34.09	37.8298' LT	POWER POLE, SHINER
WHA501	1872587.4904	2325201.7167	636.4759	GRDANPLN	325+97.87	38.9101' LT	POWER POLE, SHINER
WHA502	1872485.5904	2325167.6729	633.0372	GRDANPLN	325+27.61	42.3886' RT	FENCE POST, SHINER
WHA503	1872705.0679	2325536.4558	638.2491	GRDANPLN	329+50.65	33.9575' LT	POWER POLE, SHINER
WHA504	1872763.8668	2325716.6079	644.5521	GRDANPLN	331+39.03	35.4589' LT	POWER POLE, SHINER
WHA505	1872672.0311	2325599.7783	638.3428	GRDANPLN	330+00.12	17.4577' RT	MAILBOX, SHINER
WHA506	1873501.5080	2328879.3471	672.2611	GRDANPLN	363+86.64	42.1854' LT	POWER POLE, SHINER
WHA507	1873418.8714	2328883.0593	672.3333	GRDANPLN	363+75.88	39.8317' RT	POWER POLE WITH TRANSFORMER, SHINER
WHA508	1873405.9126	2328818.9710	673.4613	GRDANPLN	363+10.46	41.3647' RT	FENCE POST, SHINER
WHA509	1873554.0006	2329212.3608	672.5128	GRDANPLN	367+23.84	35.6493' LT	TELEPHONE SPLICE BOX, SHINER
WHA510	1873493.9961	2329300.5595	675.5723	GRDANPLN	367+99.95	39.0941' RT	POWER POLE, SHINER
WHA511	1873466.7812	2329147.4226	670.9485	GRDANPLN	366+44.42	38.6206' RT	POWER POLE, SHINER

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	CAD FILE NAME	
	NO.	

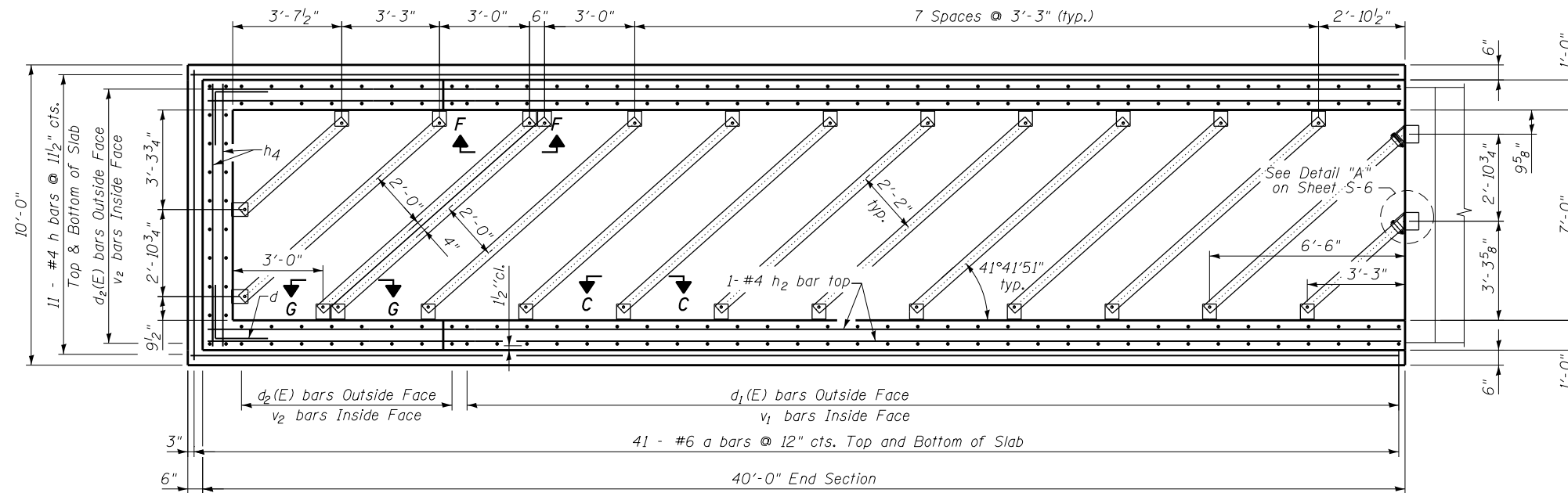
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NO.	



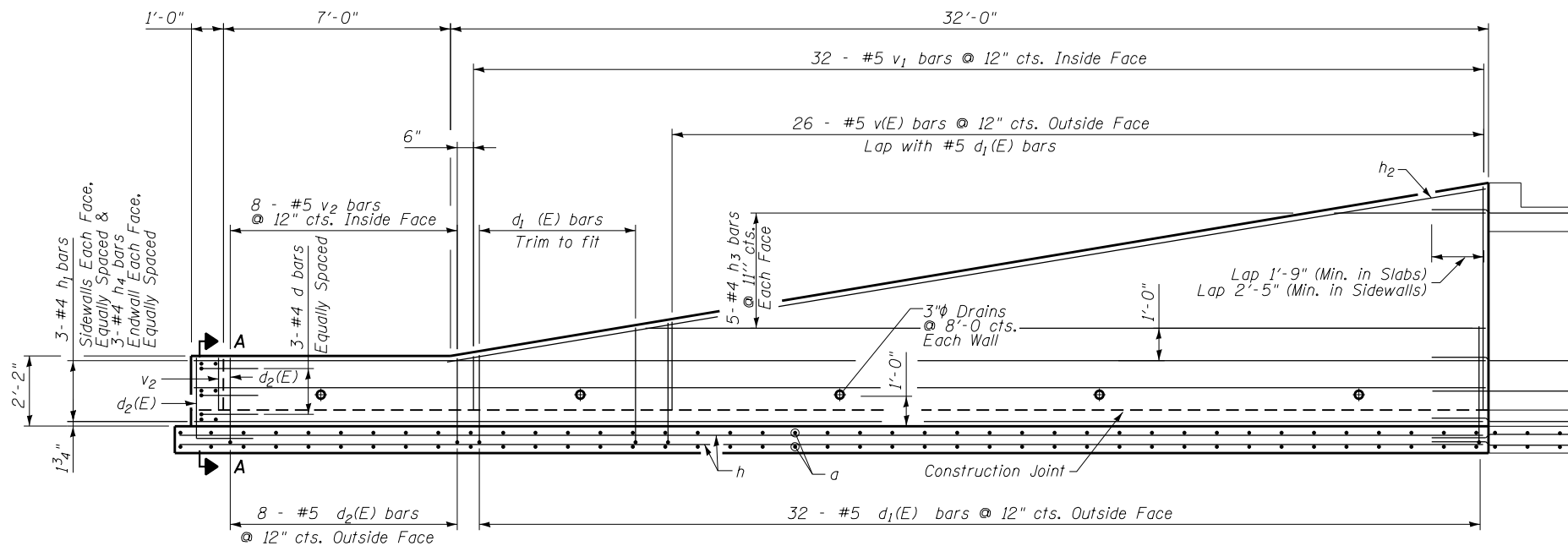
Drainage Area =	143	acres		
Existing Low Grade Elevation:	631.80	ft. @	325+79	
Proposed Low Grade Elevation:	631.80	ft. @	325+79	
Flood	Frequency	Discharge	Headwater Elev. (ft)	
	Year	cfs	Existing	Proposed
Ten-Year	10	165	631.29	629.43
OVT (Existing)	19	194	631.80	-
Design	50	245	-	630.80
Base	100	290	-	631.59
OVT (Proposed)	120	302	-	631.80
10-Year Velocity through Existing Culvert =		10.9 fps		
10-Year Velocity through Proposed Culvert =		7.8 fps		



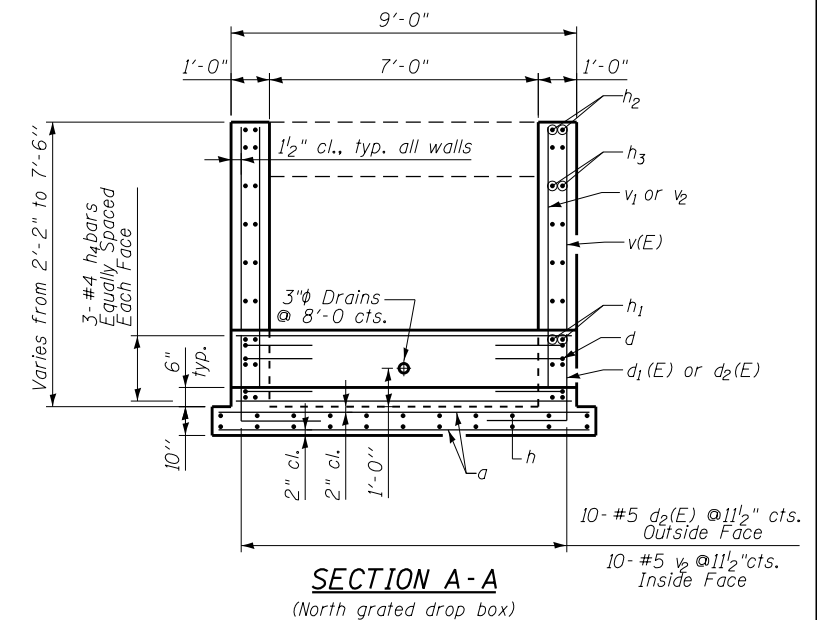
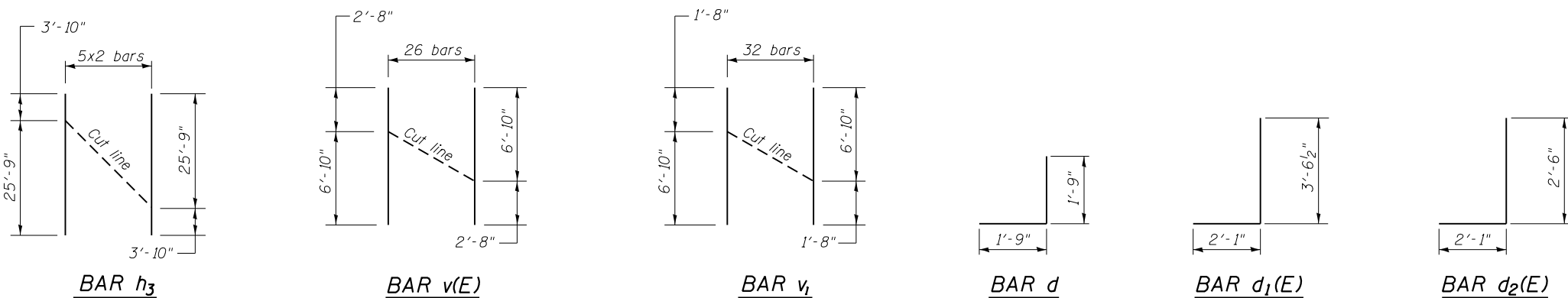
FILE NAME =	USER NAME = bates1	DESIGNED -	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pwidot\bates1\d0309241\0203212-shr-plnpr.f.dgn		DRAWN -	REVISOR -			196	(0-2MFT)	WHITESIDE	61	16	
Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISOR -			CONTRACT NO. 64H60					
	PLOT DATE = Fri Jan 23 08:18:20 2015	DATE -	REVISOR -			ILLINOIS FED. AID PROJECT					



PLAN



ELEVATION



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	82	#6	9'-8"	—
d	6	#4	3'-6"	└
d ₁ (E)	64	#5	5'-7½"	└
d ₂ (E)	26	#5	4'-7"	└
h	22	#4	40'-2"	—
h ₁	12	#4	39'-9"	—
h ₂	4	#4	32'-3"	—
h ₃	10	#4	29'-7"	—
h ₄	6	#4	8'-10"	—
v(E)	26	#5	9'-6"	—
v ₁	32	#5	8'-6"	—
v ₂	26	#5	1'-6½"	—

Description	Unit	Quantity
Concrete Box Culverts	Cu. Yd.	23.2
Reinforcement Bars	Pound	2,760
Reinforcement Bars, Epoxy Coated	Pound	760
Traversable Pipe Gates	Foot	122

- Notes:
- This work shall be done in accordance with the applicable portions of sections 503, 505, 508, and 540 of the Standard Specifications.
 - Contractor shall field verify pipe lengths.
 - The cost of earth excavation, where required, and necessary grading to fit the inlet as shown in the cross sections or to the slope is included in the cost of Concrete Box Culverts.
 - See Sheet S-6 for Traversable Pipe Details and Views C-C, F-F, & G-G.



USER NAME =	DESIGNED - BAB	REVISED
PLOT SCALE =	CHECKED - JAR	REVISED
PLOT DATE =	DRAWN - DBM	REVISED
	CHECKED - BAB	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

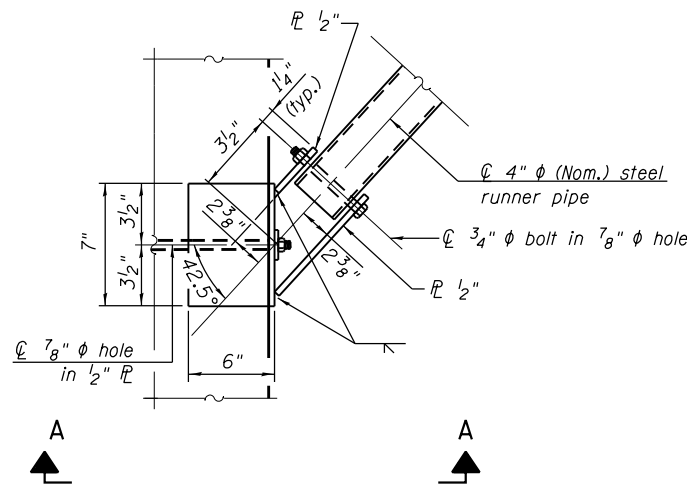
**DROP BOX DETAILS
STRUCTURE NO. 098-1076**

SHEET NO. S-4 OF 7 SHEETS

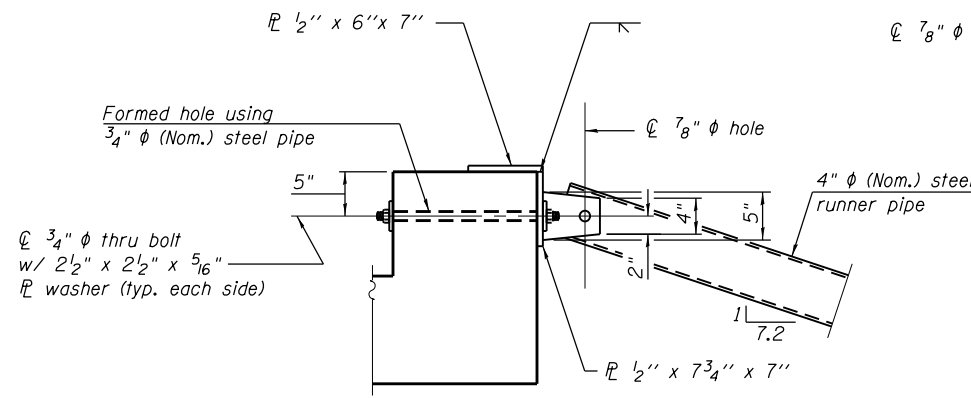
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
196	(0-2MFT)T	WHITESIDE	61	21
CONTRACT NO. 64H60				

ILLINOIS FED. AID PROJECT

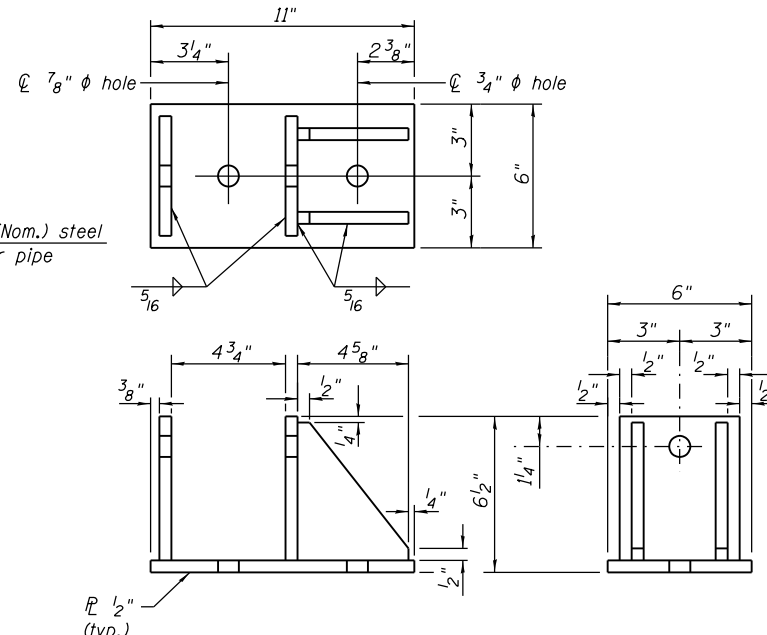
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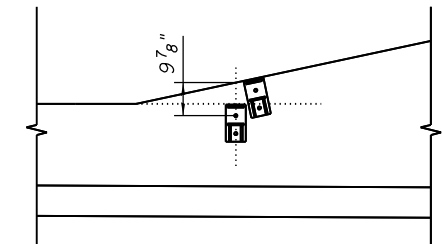
DETAIL A



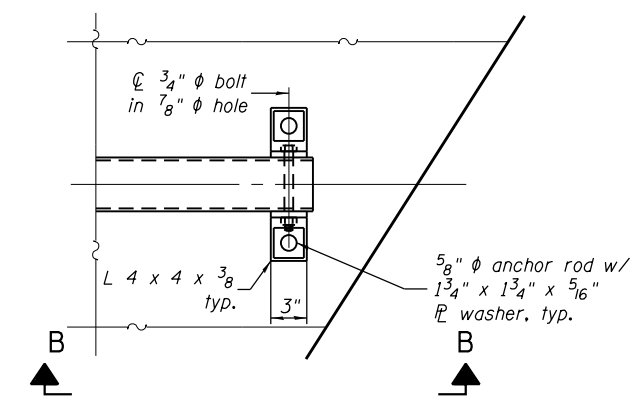
VIEW A-A



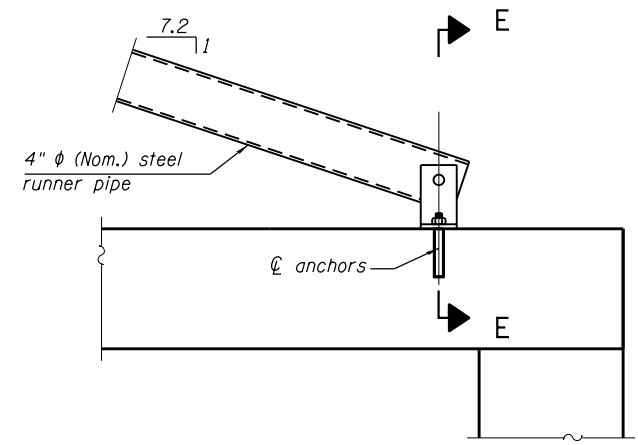
SIDEWALL BRACKET DETAILS



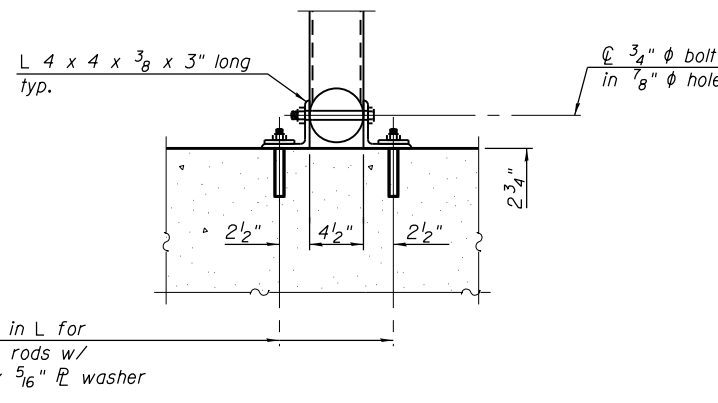
VIEW F-F



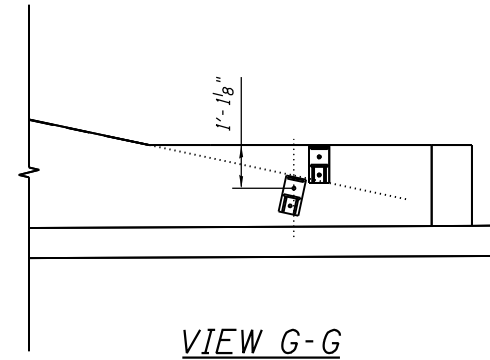
DETAIL B



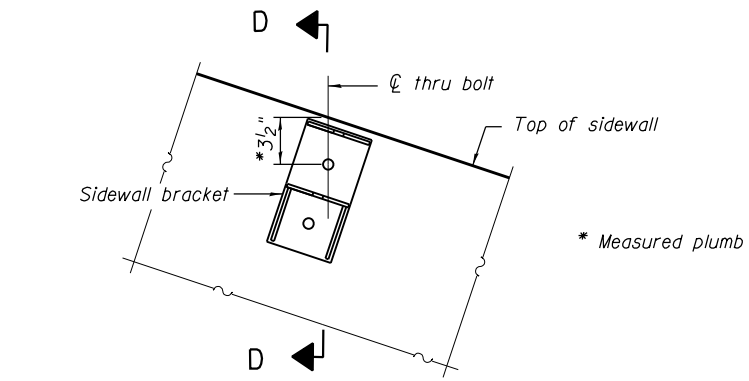
VIEW B-B



SECTION E-E

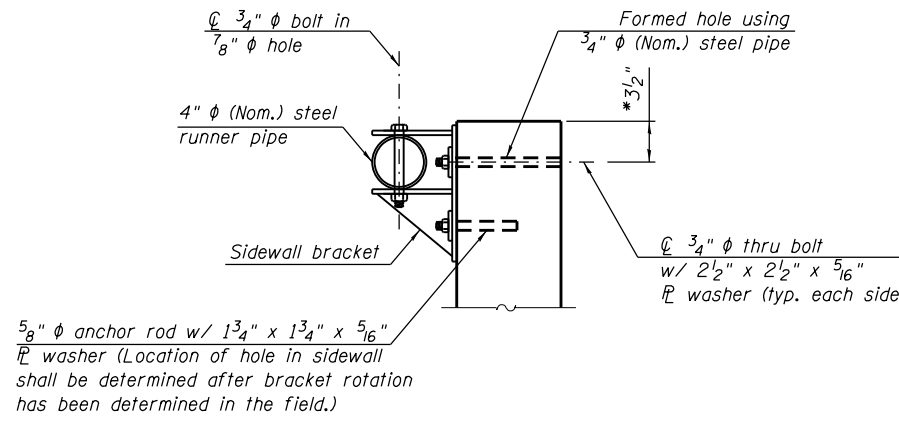


VIEW G-G



VIEW C-C

(Pipe not shown for clarity.)



SECTION D-D

NOTES

All work associated with constructing the traversable pipe grate shall be in accordance with the Special Provision for Traversable Pipe Grate, except as detailed herein.

Contractor shall determine required length of runner pipes after the brackets have been installed in the field. Pipes may be cut to required length and drilled in field to accommodate construction tolerances in the geometry of the culvert end section.

The Contractor may install the thru bolts using drilling and grouting in lieu of providing a formed hole using steel pipe. Installation shall be in accordance with Article 509.06 using a method that results in the annulus surrounding the bolt being completely filled with adhesive. The method of drilling shall not result in spalled concrete at the exit face. Epoxy grouted thru bolts shall be snug tightened followed by an additional 1/3 turn on the interior nut at final installation. Cost included with Traversable Pipe Grate.

The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 1/2" unless noted otherwise.

Steel pipes shall conform to ASTM A-53 (Type E or S) Grade B, Schedule 40, and shall be galvanized conforming to ASTM M-111.

Steel plates shall conform to AASHTO M-270 and shall be galvanized conforming to AASHTO M-111.

Bolts, nuts, washers, and anchor rods shall be according to ASTM A-307 and shall be galvanized conforming to AASHTO M-232.

The contract unit price for Traversable Pipe Grates shall include the galvanized pipe, bolts, nuts, washers, anchor rods, and plates.



USER NAME =	DESIGNED - BAB	REVISED
	CHECKED - JAR	REVISED
PLOT SCALE =	DRAWN - DBM	REVISED
PLOT DATE =	CHECKED - BAB	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

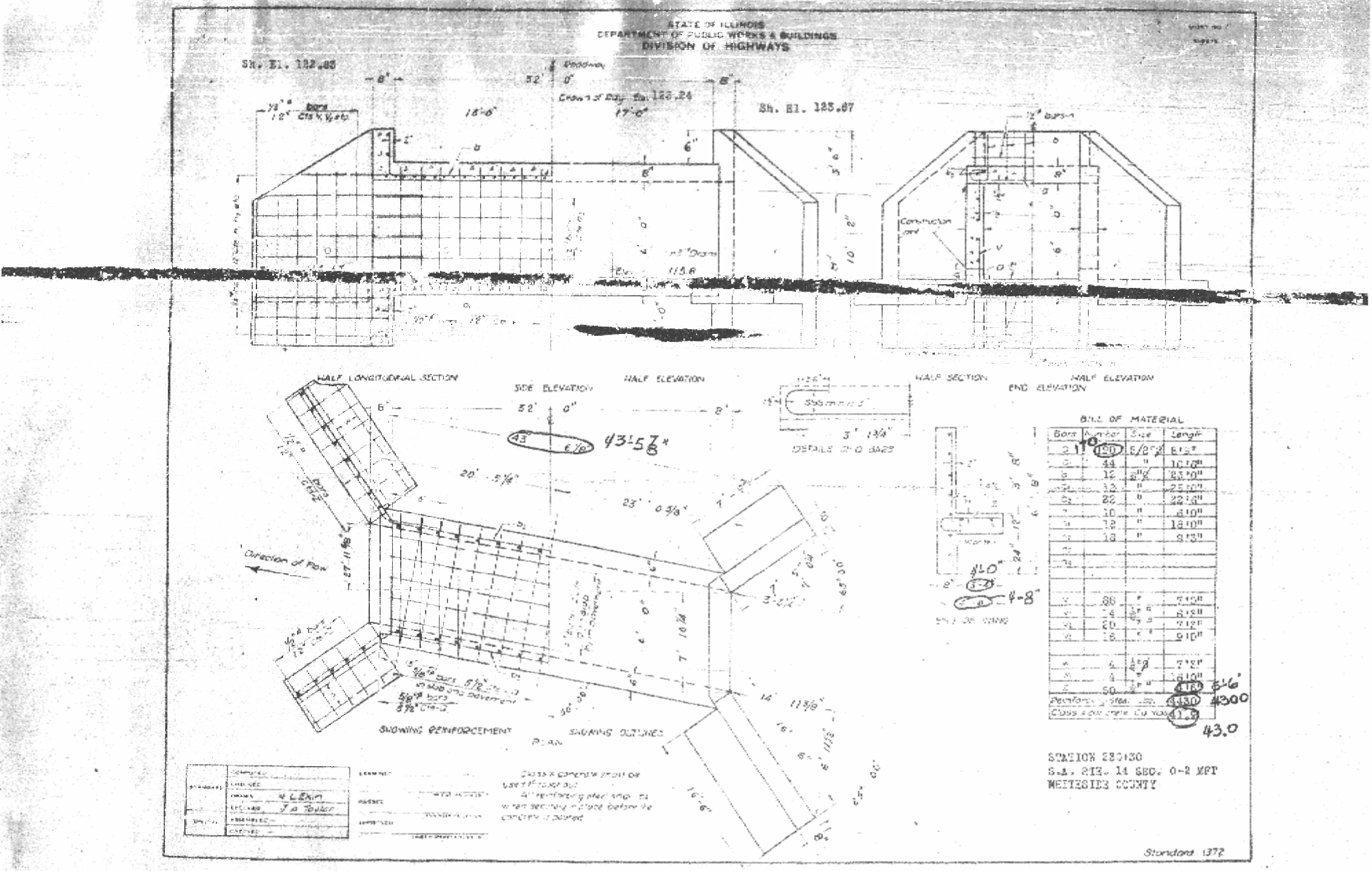
**TRAVERSABLE PIPE GRATES
STRUCTURE NO. 098-1076**

SHEET NO. S-6 OF 7 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
196	(0-2MFT)T	WHITESIDE	61	23
			CONTRACT NO. 64H60	
ILLINOIS FED. AID PROJECT				

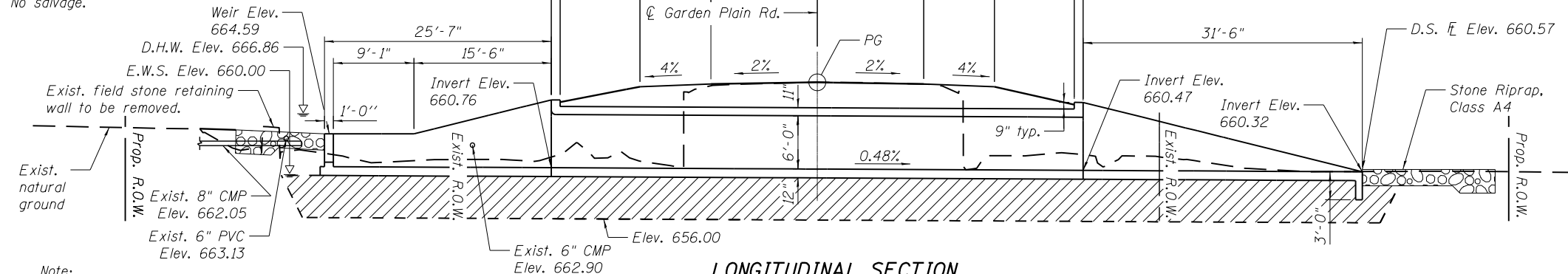
EXISTING STRUCTURE PLANS

(FOR REFERENCE ONLY)



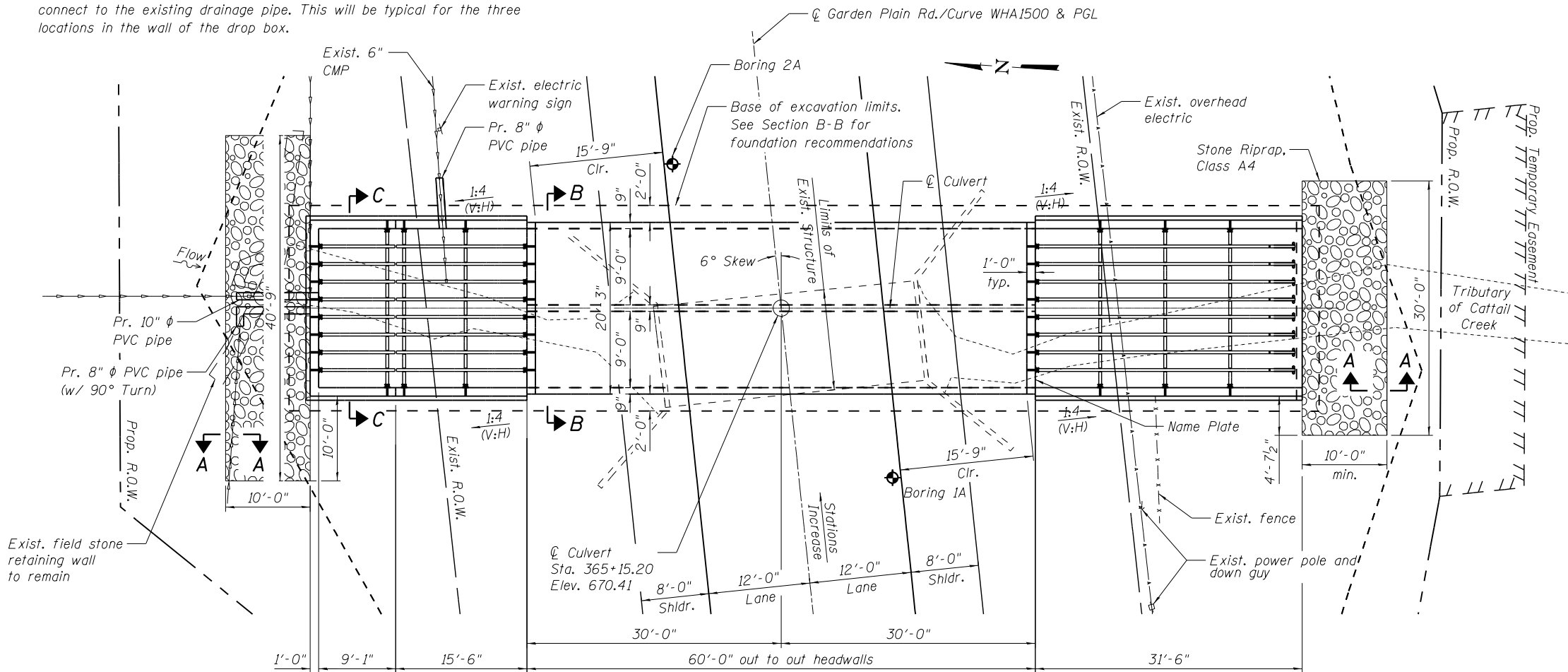
Bench Mark: #404 - Northwest corner of upstream headwall,
Northing 1873495.00, Easting 232900.78, Elevation 669.30.

Existing Structure: SN 098-1058 is a 12'x8' R.C. box culvert,
24'-2" edge-to-edge pavement with a culvert length of 31'-4".
Built in 1938. Traffic will be detoured during construction.
No salvage.



LONGITUDINAL SECTION

Note:
A PVC coupler and a schedule 80 PVC pipe shall be formed in the concrete wall. The PVC coupler shall daylight to the soil side of the wall. A PVC pipe shall then connect to the coupler and then extend away from the wall and connect to the existing drainage pipe. This will be typical for the three locations in the wall of the drop box.



PLAN

WATERWAY INFORMATION

Drainage Area = 304 acres Exist. & Prop. Low Grade Elev. 670.38 @ Sta. 365+63

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Ten-Year	10	203	--	--	--	--	--	--	664.22	666.08
Design	50	427	--	--	--	--	--	--	666.68	666.86
Base	100	561	--	--	--	--	--	--	667.42	667.37
Overtopping	296	892	--	--	--	--	--	--	670.38	--
Max. Calc.	500	1101	--	--	--	--	--	--	--	669.71

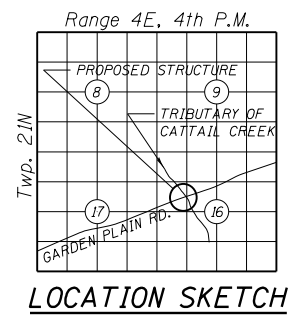
10-Year Velocity through Existing Culvert = 4.3 FPS
10-Year Velocity through Proposed Culvert = 2.8 FPS

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	D.S.	U.S.
	657.32	659.84

STATION 365+15.20
BUILT 20__ BY
STATE OF ILLINOIS
F.A.S. RTE. 196 SEC. (0-2MFT)T
LOADING HL-93
STRUCTURE NO. 098-1075

NAME PLATE
See Std. 515001



LOCATION SKETCH

EXISTING/PROPOSED HORIZONTAL CURVE WHA1500 DATA

PI STA. = 362+53.36
Δ = 0° 40' 26" (RT)
D = 0° 06' 30"
R = 52,881.88'
T = 310.95'
L = 621.88'
E = 0.91'
P.C. STA. = 359+42.42
P.T. STA. = 365+64.30

Sta.	Elev.	Slope
364+00	670.92	-0.66%
364+50	670.59	-0.34%
365+00	670.42	-0.08%
365+50	670.38	+0.10%
366+00	670.43	

EXISTING/PROPOSED PROFILE GRADE
(along Garden Plain Rd.)

LOADING HL-93

Allow 50#/sq. ft. for Future Wearing Surface.

DESIGN SPECIFICATIONS

2012 Interim Revisions to AASHTO LRFD Bridge Design Specifications, Customary U.S. Units, 6th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 35,000 psi (Steel Pipes)



Kevin J. Brehm, S.E. Reg. No. 081-007103

Date: _____
My registration expires November 30, 2014

GENERAL PLAN AND ELEVATION

GARDEN PLAIN ROAD OVER TRIBUTARY TO CATTAIL CREEK

FAS ROUTE 196 - SEC. (0-2MFT)T

WHITESIDE COUNTY

STATION 365+15.20

STRUCTURE NO. 098-1075



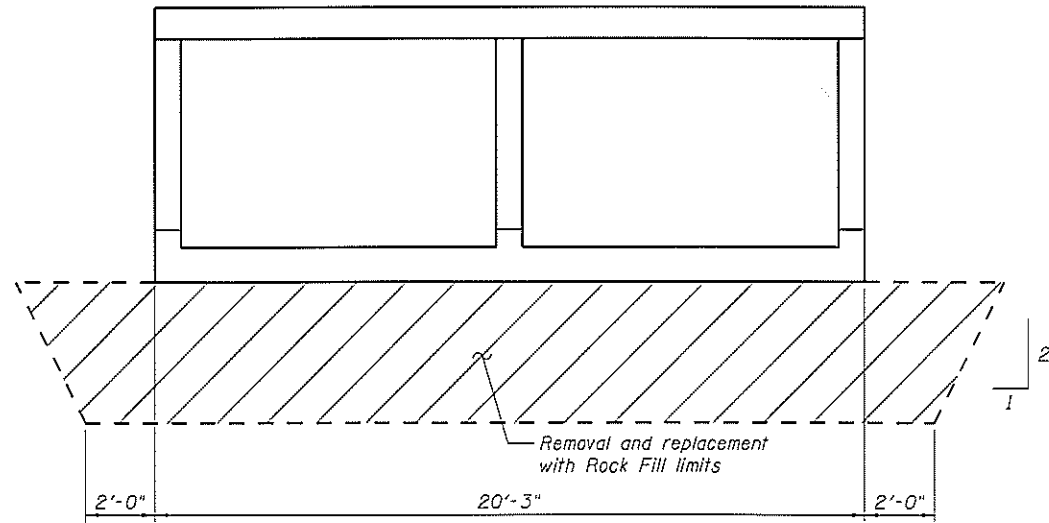
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JRM	JRM	1
KJB	KJB	2
JRM	JRM	3
KJB	KJB	4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 098-1075
SHEET NO. S-1 OF S-7 SHEETS

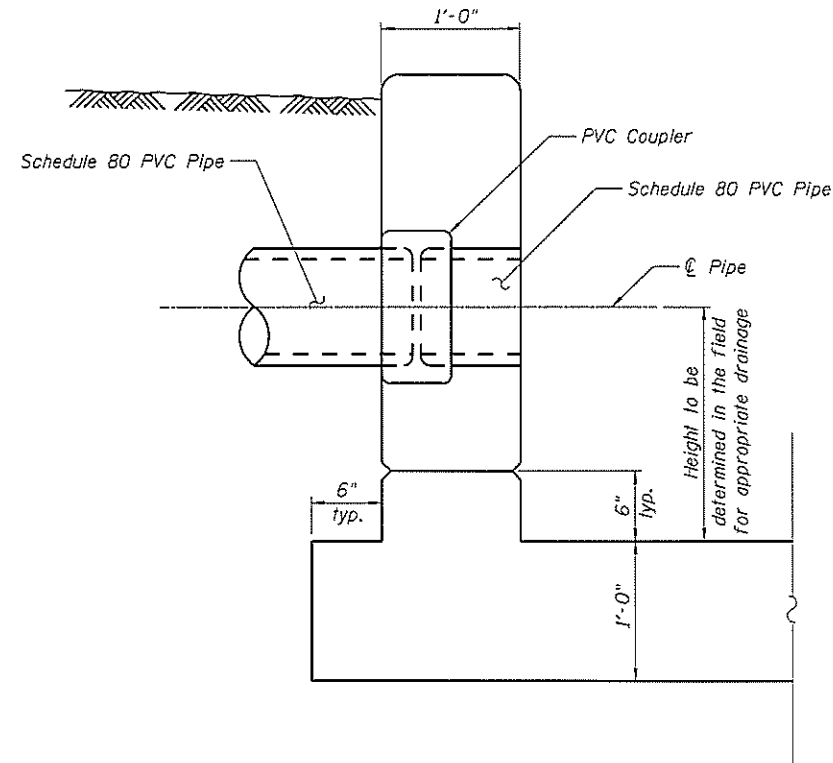
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
196	(0-2MFT)T	WHITESIDE	61	26
				CONTRACT NO. 64H60

ILLINOIS FED. AID PROJECT

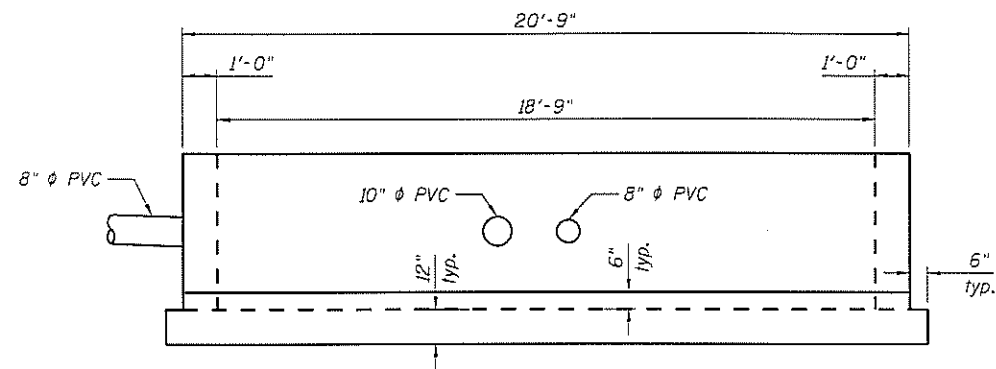


SECTION B-B

The limits and quantities of Removal and Disposal of Unsuitable Material for Structures and replacement with Rock Fill shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

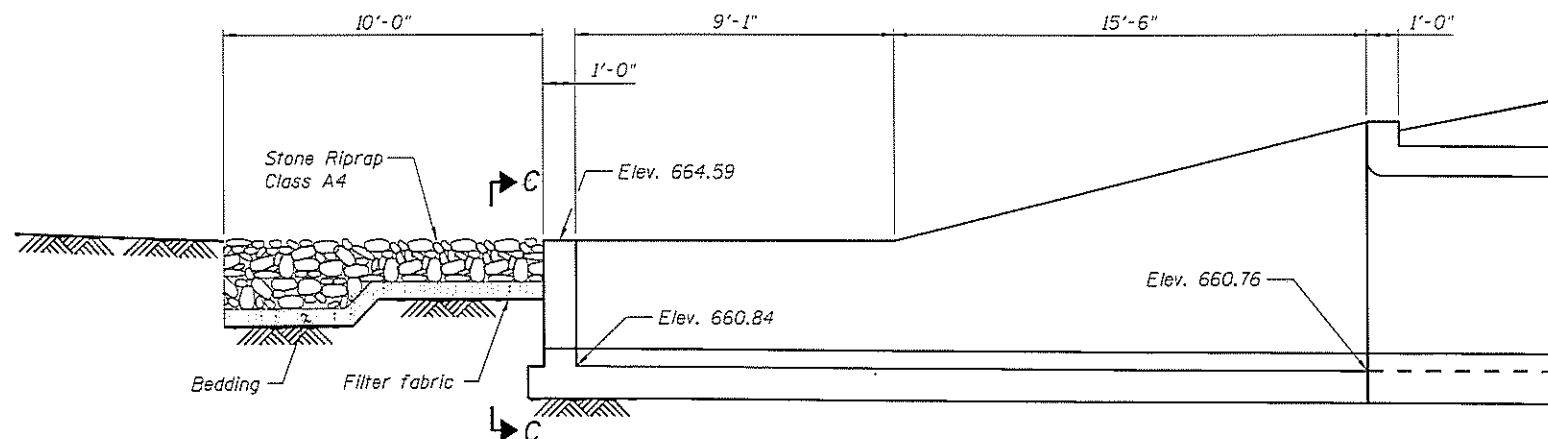


SECTION THROUGH WALL OF DROP BOX



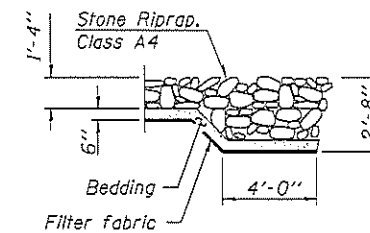
VIEW C-C

(North graded drop box)



ELEVATION

(North graded drop box)



SECTION A-A

TOTAL BILL OF MATERIAL

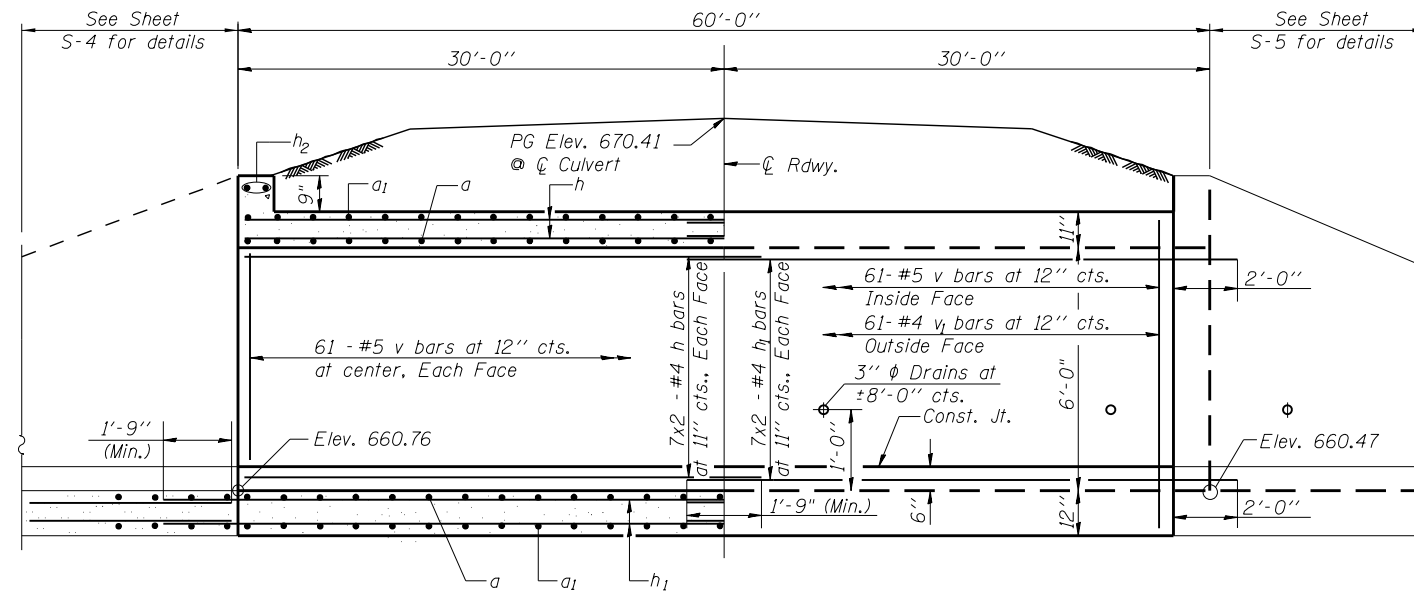
Item	Unit	Total
Stone Riprap, Class A4	Sq. Yd.	78.6
Filter Fabric	Sq. Yd.	78.6
Removal of Existing Structures No. 2	Each	1
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	470
Reinforcement Bars	Pound	26,890
Reinforcement Bars, Epoxy Coated	Pound	1,210
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	184.7
Traversable Pipe Grates	Foot	572
Rock Fill	Ton	1048

INDEX OF SHEETS

- S-1 General Plan and Elevation
- S-2 General Data
- S-3 Culvert Barrel Details
- S-4 Drop Box Details
- S-5 End Section Details
- S-6 Traversable Pipe Details
- S-7 Soil Boring Logs

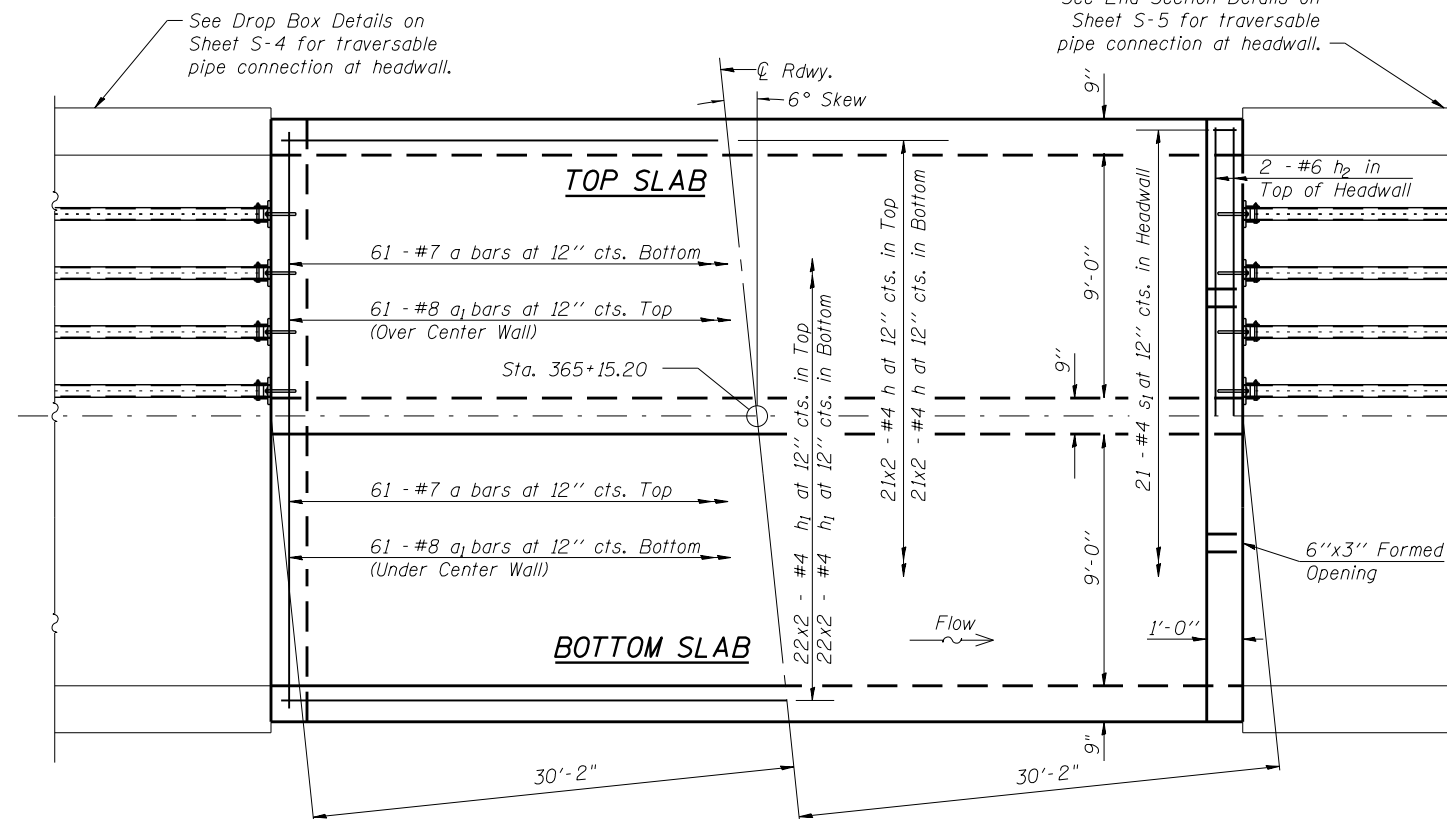
GENERAL NOTES:

- All exposed concrete edges shall be chamfered 3/4" unless otherwise noted.
- Reinforcement bars designated (E) shall be epoxy coated.
- Precast culvert alternate is not allowed.



HALF LONG SECTION
Showing bars in Center Wall

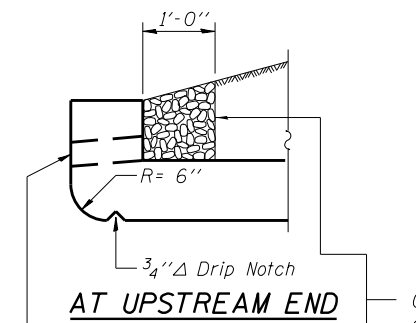
HALF ELEVATION
Showing bars in Outside Wall



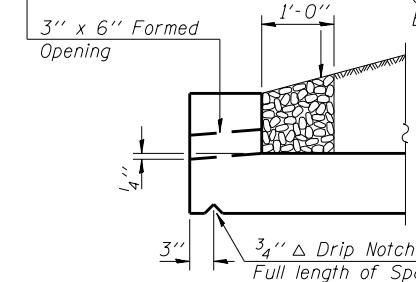
SHOWING REINFORCEMENT

SHOWING OUTLINES

PLAN

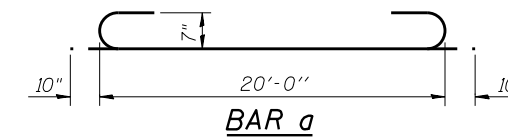


AT UPSTREAM END

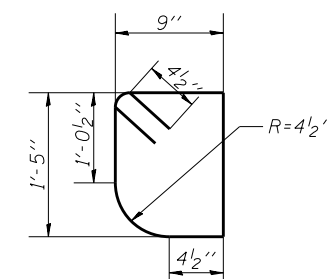


AT DOWNSTREAM END

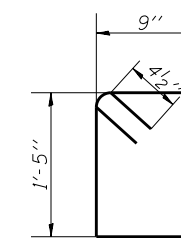
DRAIN DETAIL



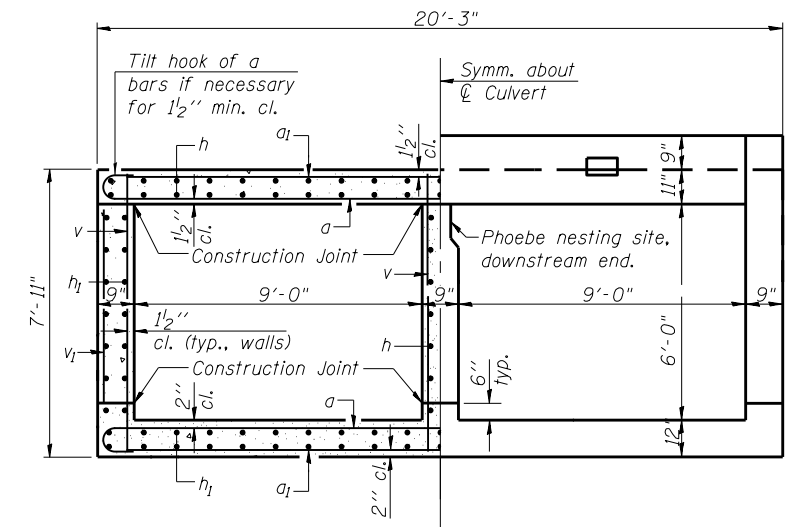
BAR a



BAR s



BAR s1



HALF SECTION THRU BARREL

HALF END ELEVATION

Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Concrete Box Culverts.

Notes:
Bars indicated thus 12x4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	122	#7	21'-8"	U
a1	122	#8	19'-0"	—
h	112	#4	30'-9"	—
h1	144	#4	32'-10 1/2"	—
h2	4	#6	20'-0"	—
v	244	#5	7'-7 1/2"	—
v1	122	#4	5'-4 1/2"	—
s	21	#4	5'-1"	U
s1	21	#4	4'-11"	U
Concrete Box Culverts			Cu. Yd.	117.4
Reinforcement Bars			Pound	19,690

\\hrgreen\desks\CAD\19322016\Sheets\SN 098-1075\0981075-Culvert-Details.dgn



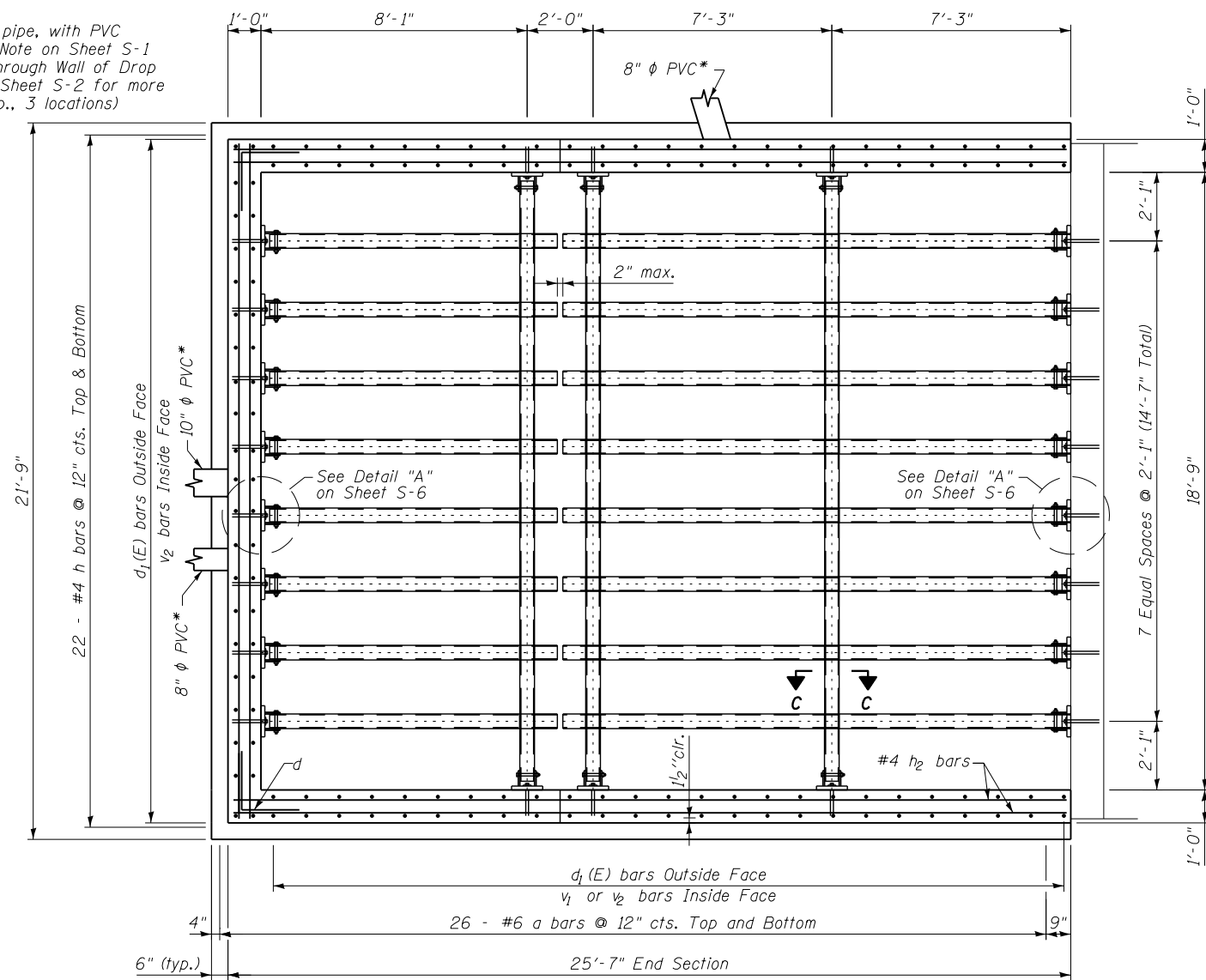
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	CHECKED - KJB	REVISED
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PLOT DATE =	CHECKED - KJB	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

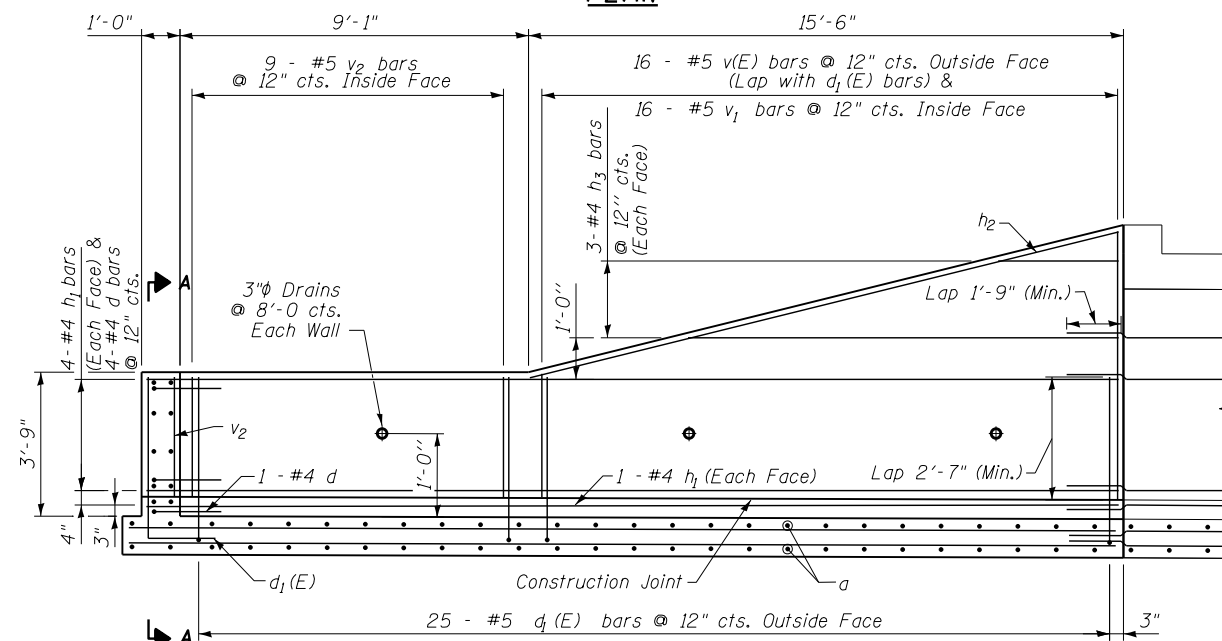
**CULVERT BARREL DETAILS
STRUCTURE NO. 098-1075**
SHEET NO. S-3 OF S-7 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
196	(0-2MFT)T	WHITESIDE	61	28
CONTRACT NO. 64H60			ILLINOIS FED. AID PROJECT	

*Proposed PVC pipe, with PVC coupler. See Note on Sheet S-1 and Section Through Wall of Drop Box Detail on Sheet S-2 for more information (typ., 3 locations)



PLAN



ELEVATION

BILL OF MATERIALS

(For Information Only)

BAR	NO.	SIZE	LENGTH	SHAPE
a	52	#6	21'-5"	—
d	10	#4	3'-6"	└
d ₁ (E)	71	#5	6'-5"	└
h	44	#4	25'-9"	—
h ₁	20	#4	25'-4"	—
h ₂	4	#4	15'-10"	—
h ₃	6	#4	14'-5"	—
h ₄	10	#4	20'-6"	—
v(E)	16	#5	10'-3"	—
v ₁	16	#5	10'-3"	—
v ₂	39	#5	3'-1"	—

DESCRIPTION	UNIT	QUANTITY
Concrete Box Culverts	Cu. Yd.	33.0
Reinforcement Bars	Pound	3,320
Reinforcement Bars, Epoxy Coated	Pound	650
Traversable Pipe Grates	Foot	256

NOTES

This work shall be done in accordance with the applicable portions of sections 503, 505, 508, and 540 of the Standard Specifications.

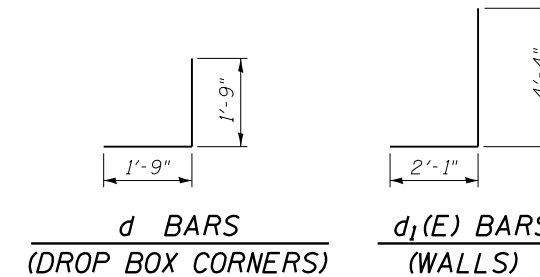
Contractor shall field verify pipe lengths.

The contract unit price for Concrete Box Culverts shall include the 10" φ PVC Pipes and Couplers.

The cost of earth excavation, where required, and necessary grading to fit the inlet as shown in the cross sections or to the slope is included in the cost of Concrete Box Culverts.

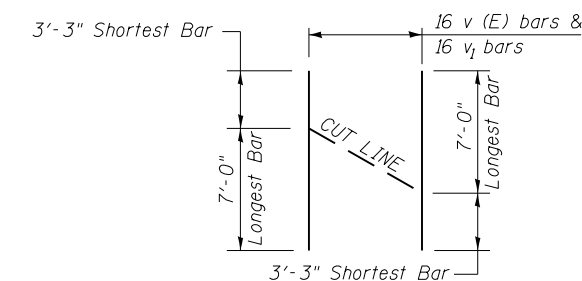
Reinforcement bars designated (E) shall be epoxy coated.

See Sheet S-6 for Traversable Pipe Details.

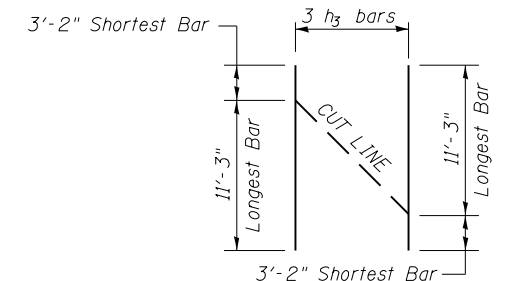


**d BARS
(DROP BOX CORNERS)**

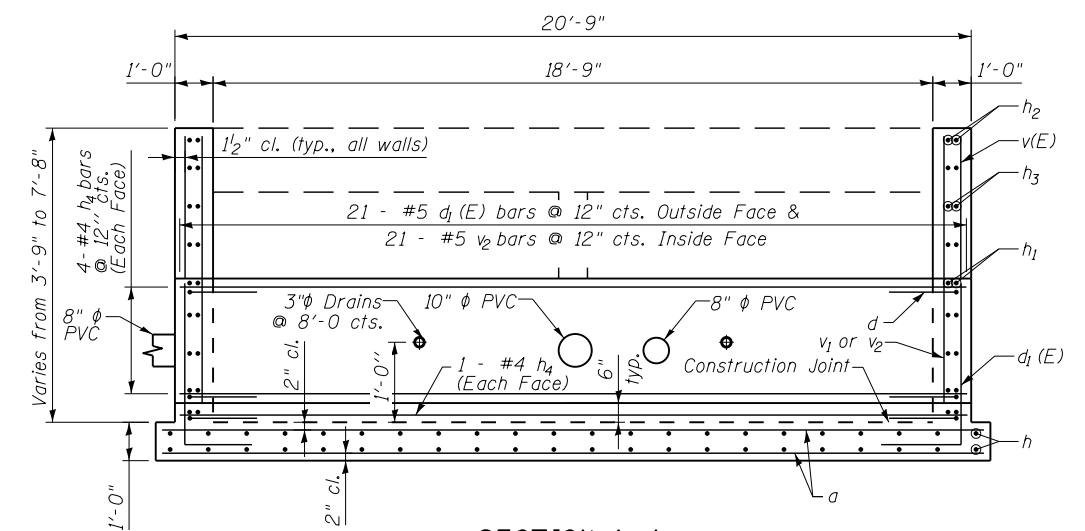
**d₁(E) BARS
(WALLS)**



**BAR v(E) & v₁
CUT DIAGRAM**



**BAR h₃
CUT DIAGRAM**



SECTION A-A

(North grated drop box)

\\hrgreen\desks\CAD\193220116\Sheets\S-N 098-1075\0203212-Drp.Box.Details.dgn

HRGreen
HRGreen.com
Illinois Professional Design Firm
#184-001322

USER NAME =	DESIGNED - JRM	REVISED
PLOT SCALE =	CHECKED - KJB	REVISED
PLOT DATE =	DRAWN - JRM	REVISED
	CHECKED - KJB	REVISED

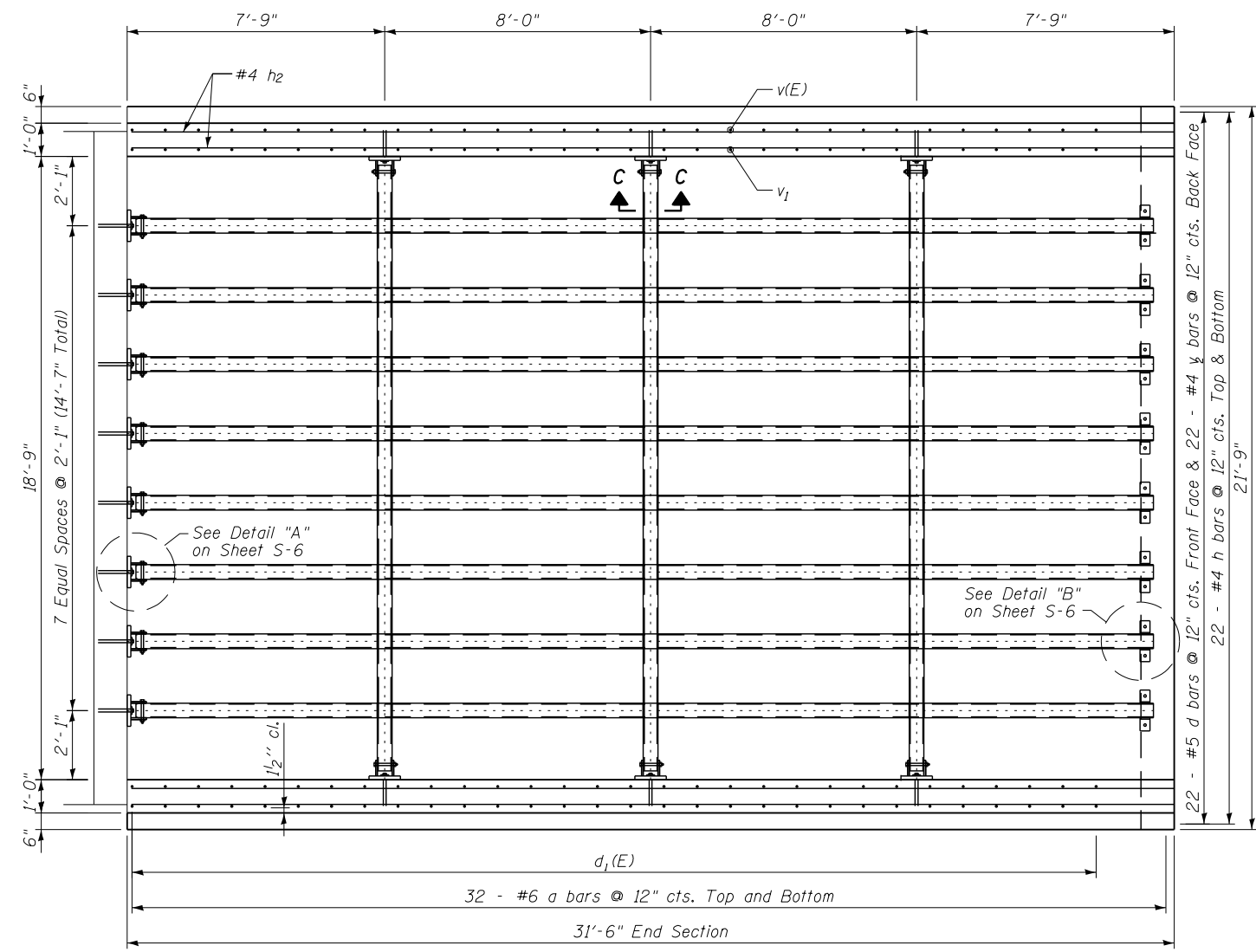
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DROP BOX DETAILS
STRUCTURE NO. 098-1075**

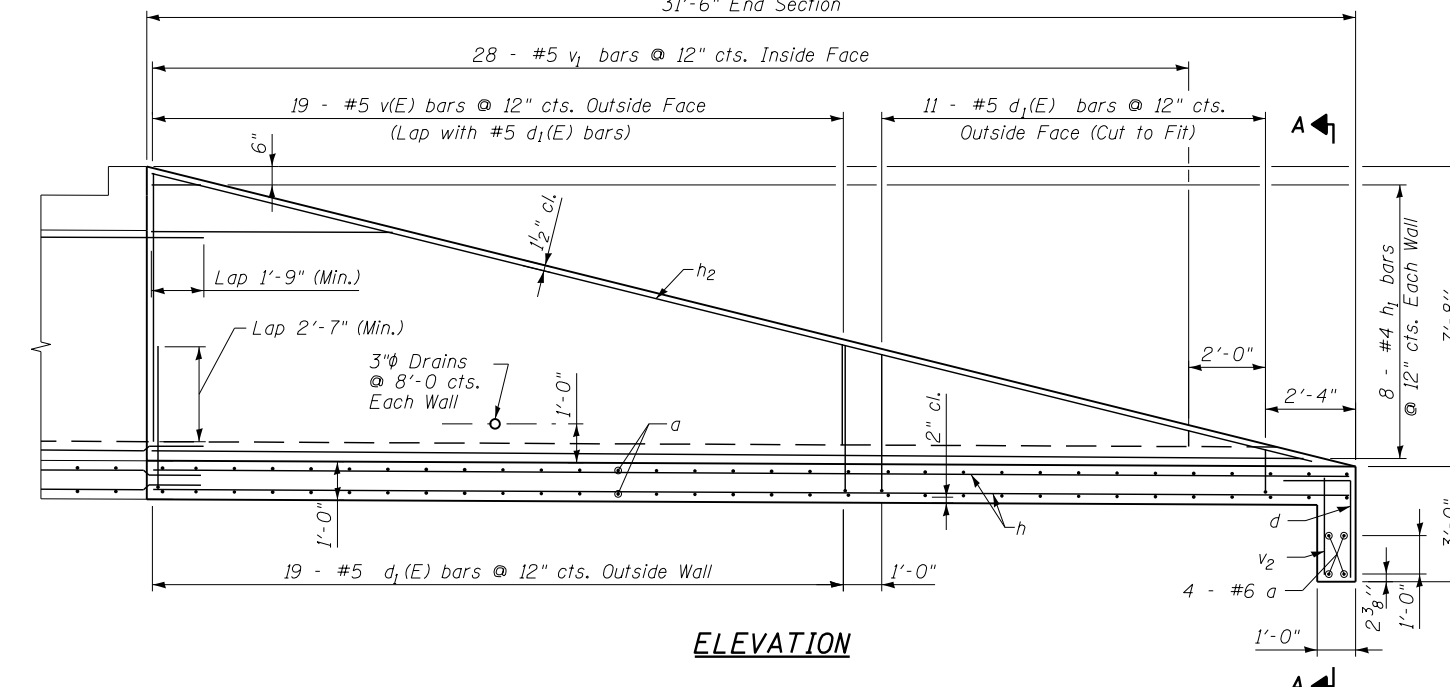
SHEET NO. S-4 OF S-7 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
196	(O-2MFT)T	WHITESIDE	61	29
CONTRACT NO. 64H60				

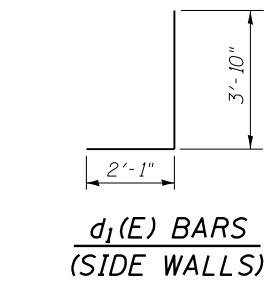
ILLINOIS FED. AID PROJECT



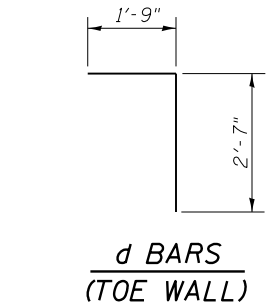
PLAN



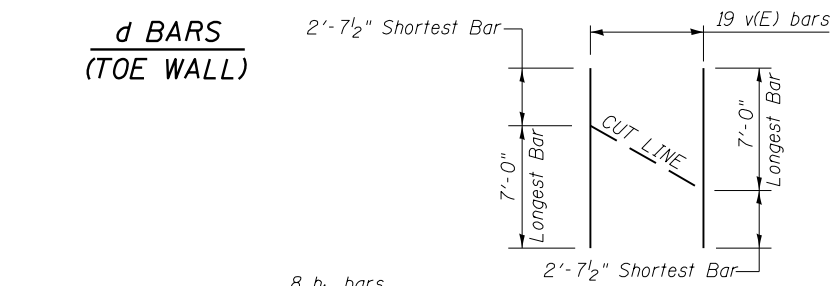
ELEVATION



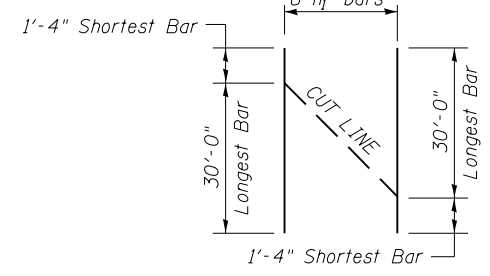
**d₁(E) BARS
(SIDE WALLS)**



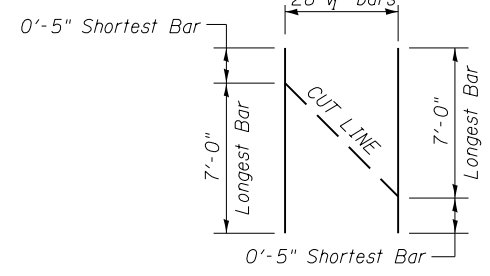
**d BARS
(TOE WALL)**



**BAR v(E)
CUT DIAGRAM**



**BAR h₁
CUT DIAGRAM**



**BAR v₁
CUT DIAGRAM**

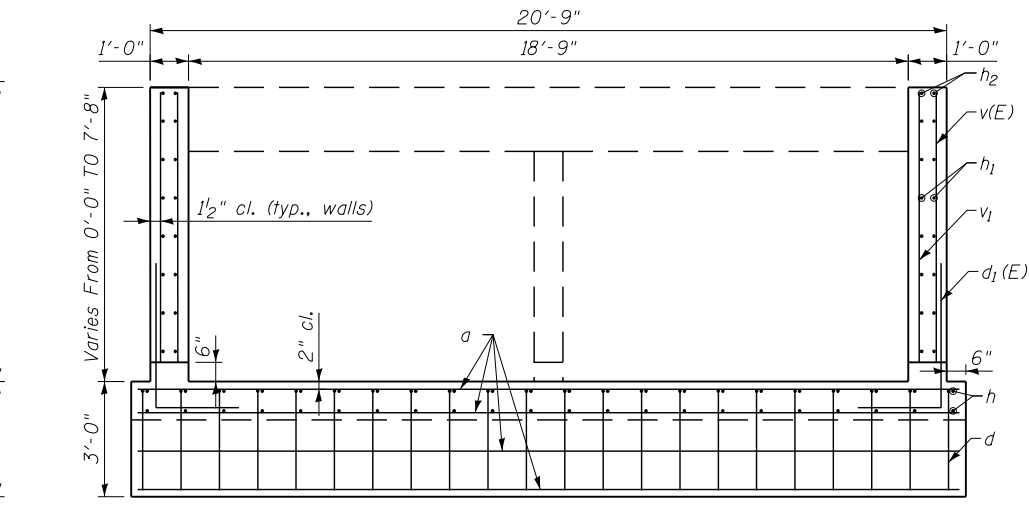
BILL OF MATERIALS
(For Information Only)

BAR	NO.	SIZE	LENGTH	SHAPE
a	68	#6	21'-5"	—
d	22	#5	4'-4"	└
d ₁ (E)	60	#5	5'-11"	└
h	44	#4	31'-2"	—
h ₁	16	#4	31'-4"	—
l ₂	4	#4	32'-0"	—
v(E)	19	#5	9'-7 1/2"	—
v ₁	28	#5	7'-5"	—
v ₂	22	#4	2'-7"	—

DESCRIPTION	UNIT	QUANTITY
Concrete Box Culverts	Cu. Yd.	34.3
Reinforcement Bars	Pound	3,880
Reinforcement Bars, Epoxy Coated	Pound	560
Traversable Pipe Grates	Foot	316

NOTES

This work shall be done in accordance with the applicable portions of sections 503, 505, 508, and 540 of the Standard Specifications.
Contractor shall field verify pipe lengths.
The cost of earth excavation, where required, and necessary grading to fit the outlet as shown in the cross sections or to the slope is included in the cost of Concrete Box Culverts.
Reinforcement bars designated (E) shall be epoxy coated.
See Sheet S-6 for Traversable Pipe Details.



SECTION A-A

\\hrgreen\desks\CAD\19322016\Sheets\SN 098-1075\0203212-End Section_Detail1.sdw
 HRGreen.com
 Professional Design Firm
 #184-001322

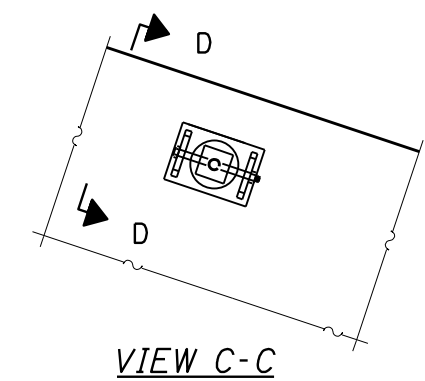
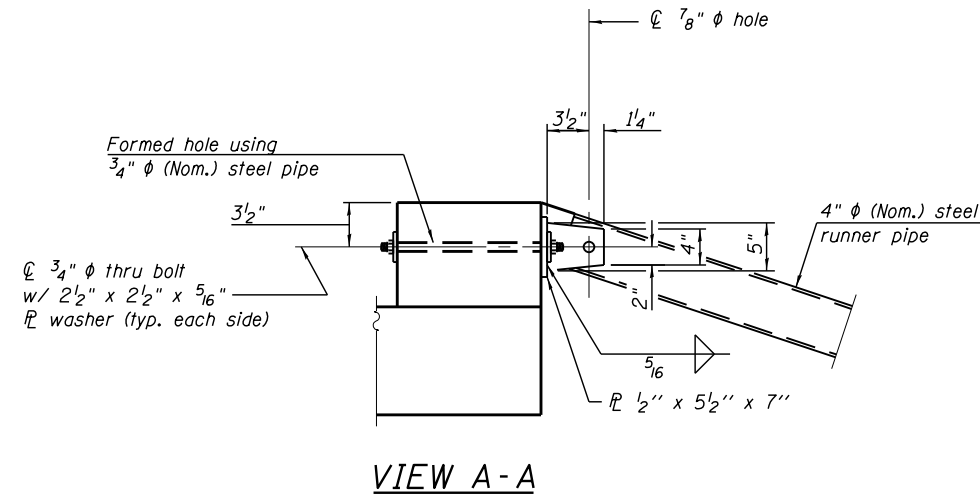
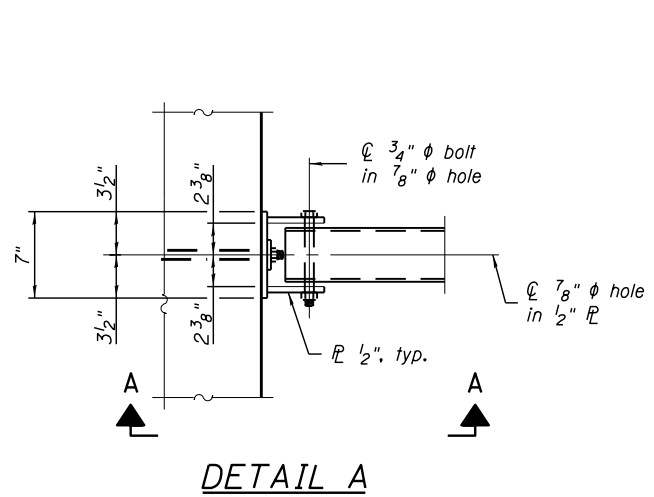


USER NAME =	DESIGNED - JRM	REVISED
PLOT SCALE =	CHECKED - KJB	REVISED
PLOT DATE =	DRAWN - JRM	REVISED
	CHECKED - KJB	REVISED

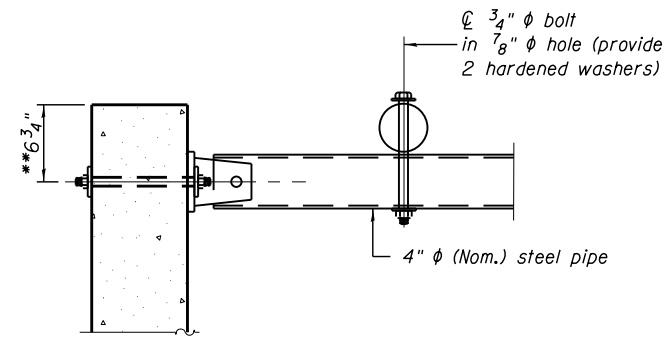
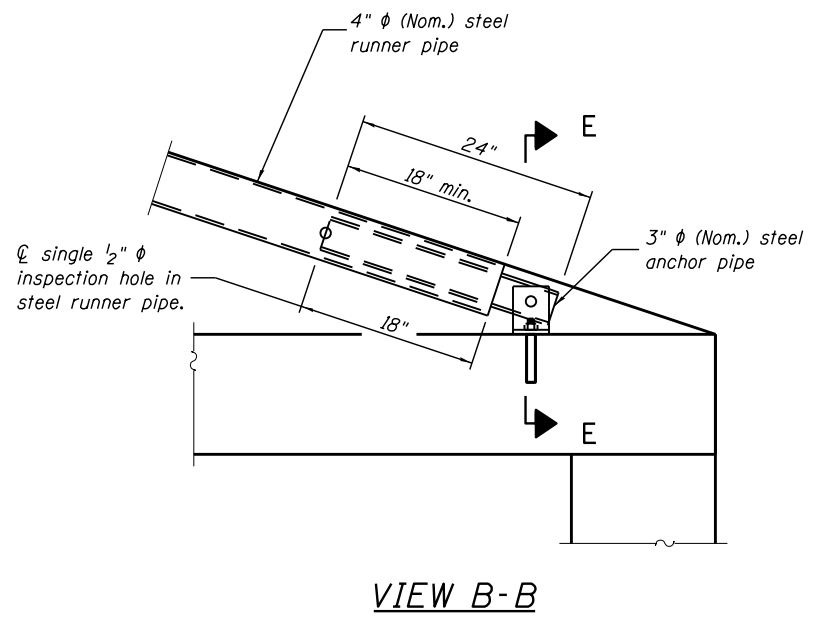
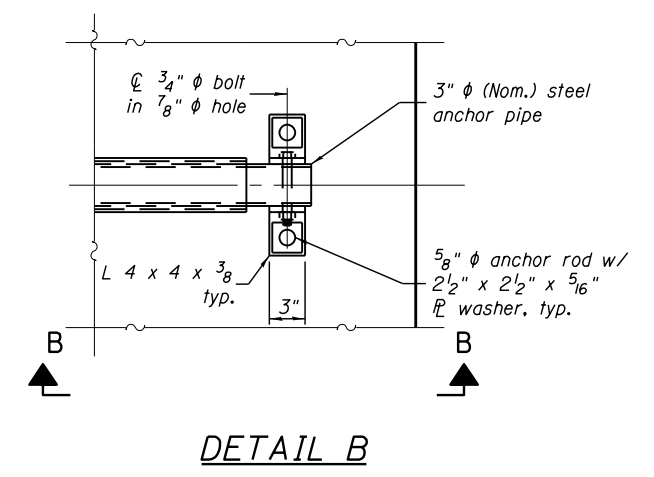
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**END SECTION DETAILS
STRUCTURE NO. 098-1075**
SHEET NO. S-5 OF S-7 SHEETS

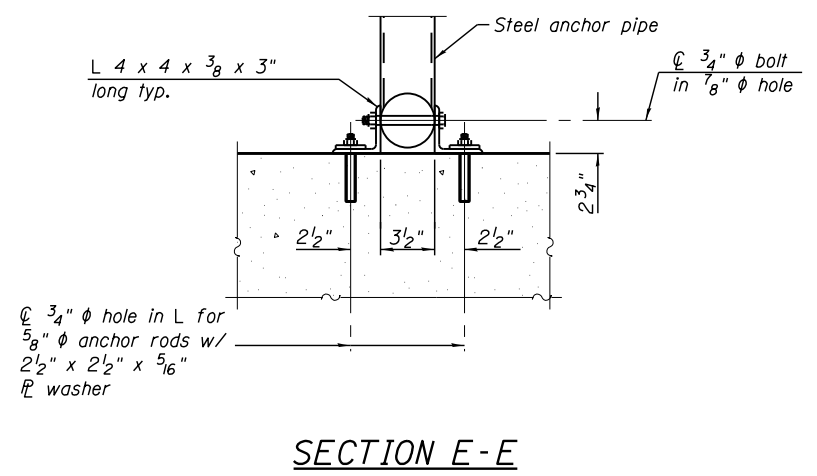
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
196	(O-2MFT)T	WHITESIDE	61	30
CONTRACT NO. 64H60			ILLINOIS FED. AID PROJECT	



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



** 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.



NOTES

The minimum distance from the center of a hole to the free edge of a structural shape or plate shall be 1/2" unless noted otherwise.

Steel pipes shall conform to ASTM A-53 (Type E or S) Grade B, Schedule 40, and shall be galvanized conforming to ASTM M-111.

Steel plates shall conform to AASHTO M-270 and shall be galvanized conforming to AASHTO M-111.

Bolts, nuts, washers, and anchor rods shall be according to ASTM A-307 and shall be galvanized conforming to AASHTO M-232.

The contract unit price for Traversable Pipe Grates shall include the galvanized pipe, bolts, nuts, washers, anchor rods, and plates.

\\hrgreen\desks\CAD\19322016\Sheets\SN 098-1075\0202312-1-Traversable Pipe-Details.dgn

USER NAME =	DESIGNED - JRM	REVISED
	CHECKED - KJB	REVISED
PLOT SCALE =	DRAWN - JRM	REVISED
PLOT DATE =	CHECKED - KJB	REVISED

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
196	(O-2MFT)T	WHITESIDE	61	31
CONTRACT NO. 64H60				



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 12/29/11

ROUTE FAS 196 DESCRIPTION 098-1058 P92-032-12 Box Culvert on Garden Plain Road, .6 m. W. of Hillside Road LOGGED BY W. Garza

SECTION (0-2MFT)T LOCATION Union Grove Twp. - 16NW, SEC. , TWP. 21N, RNG. 4E

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

STRUCT. NO. 098-1075
Station _____
BORING NO. B-1a
Station 364+94
Offset 11.00ft S CL
Ground Surface Elev. 670.1 ft

DEPTH (ft)	BLOW (blows/6")	UCS (tsf)	MOIST (%)
3		0.3 P	17
2	0.9 P		21
1		0.4 P	23
3	0.6 P		31
2	0.6 B		21
1			
4			
3			
4			
6			
11			
13			
4			

SOIL DESCRIPTION	DEPTH (ft)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After Hrs. (ft)
SOFT gray SILTY CLAY LOAM	0-3						
MEDIUM light brown SILTY LOAM	3-6	668.10					
SOFT light brown SILTY LOAM	6-10	666.60					
MEDIUM black SILTY CLAY LOAM	10-13	664.10					
MEDIUM gray SANDY LOAM	13-16	661.60					
LOOSE tan fine SAND	16-19	658.60					
MEDIUM tan SANDSTONE/weathered LIMESTONE	19-22	656.10					
MEDIUM tan weathered LIMESTONE	22-25	654.10					
MEDIUM tan weathered LIMESTONE	25-28	651.60					

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 12/29/11

ROUTE FAS 196 DESCRIPTION 098-1058 P92-032-12 Box Culvert on Garden Plain Road, .6 m. W. of Hillside Road LOGGED BY W. Garza

SECTION (0-2MFT)T LOCATION Union Grove Twp. - 16NW, SEC. , TWP. 21N, RNG. 4E

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

STRUCT. NO. 098-1075
Station _____
BORING NO. B-2a
Station 365+33
Offset 11.00ft N CL
Ground Surface Elev. 670.2 ft

DEPTH (ft)	BLOW (blows/6")	UCS (tsf)	MOIST (%)
5		0.3 P	13
2	0.3 P		26
1		0.9 P	28
2	0.9 B		25
1			
2			
5			
1		1.1 P	50
2			
5			
9			
25			
20			
8			

SOIL DESCRIPTION	DEPTH (ft)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After Hrs. (ft)
SOFT brown SANDY LOAM	0-5						
SOFT tan SILTY LOAM	5-7	668.20					
MEDIUM tan SILTY LOAM	7-10	666.70					
MEDIUM dark gray SILTY CLAY LOAM	10-13	664.20					
LOOSE tan/white fine SAND	13-16	661.20					
STIFF light brown CLAY with weathered LIMESTONE with 13% ORGANICS	16-19	658.70					
No Recovery	19-22	656.20					
DENSE tan/white weathered LIMESTONE	22-25	654.20					

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)

\\hrgreen\desks\c001\93220116\Sheets\SN 098-1075\0203212-Soil Borings.dgn



USER NAME =	DESIGNED - JRM	REVISED
	CHECKED - KJB	REVISED
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PLOT DATE =	CHECKED - KJB	REVISED

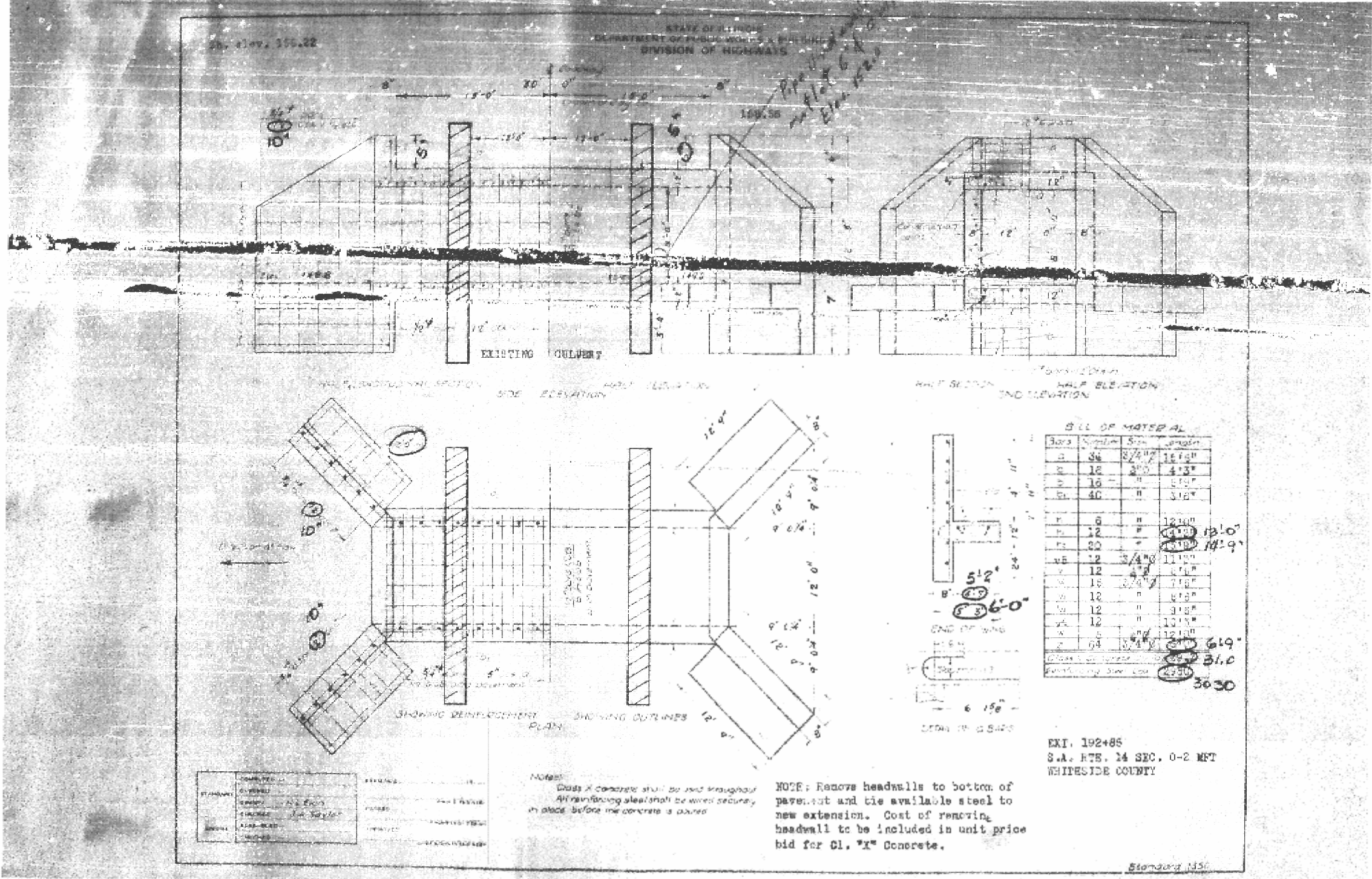
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 098-1075

SHEET NO. S-7 OF S-7 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
196	(0-2MFT)T	WHITESIDE	61	32
CONTRACT NO. 64H60			ILLINOIS FED. AID PROJECT	

EXISTING STRUCTURE PLANS (FOR REFERENCE ONLY)



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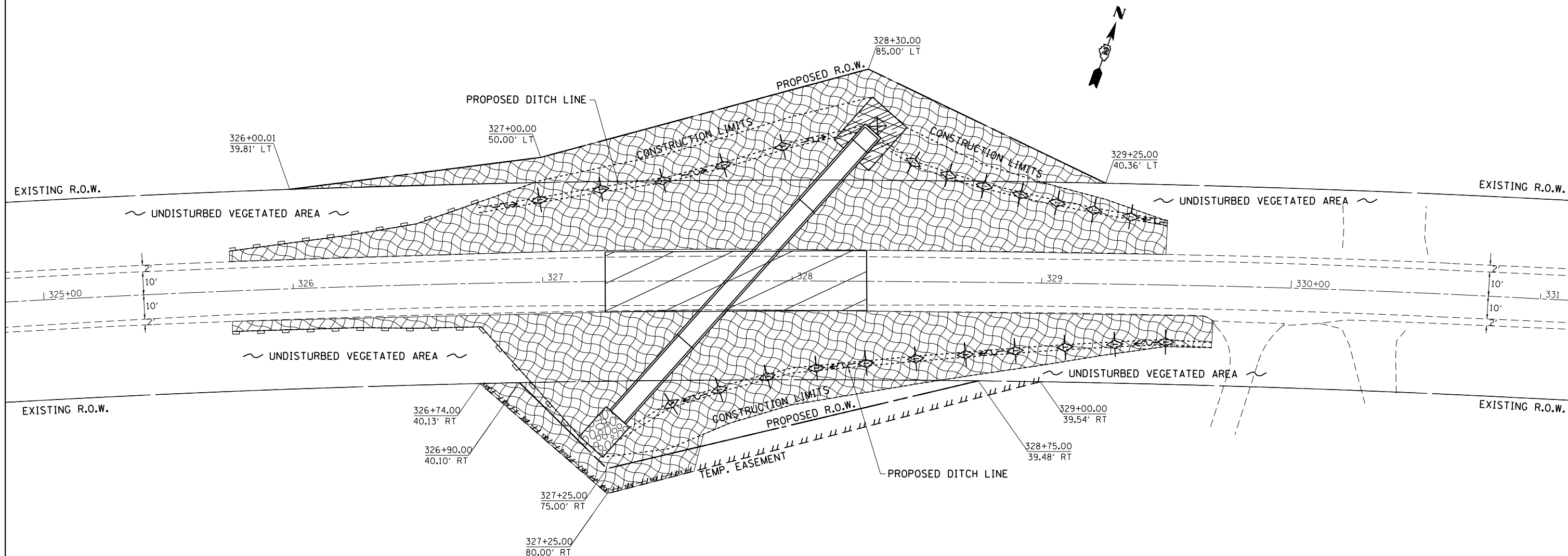
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING STRUCTURE PLANS
STRUCTURE NO. 098-1075**

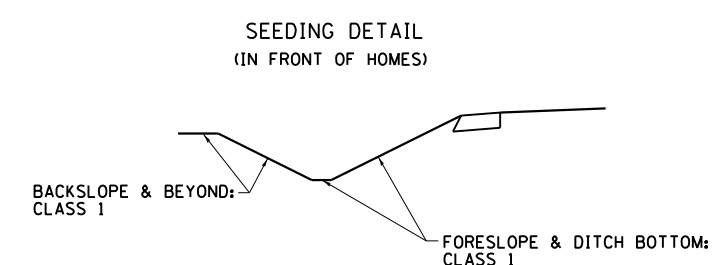
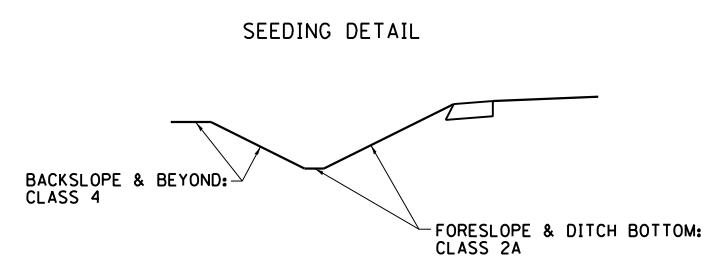
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
196	10-2MFTJT	WHITESIDE	61	33
CONTRACT NO. 64H60				
ILLINOIS FED. AID PROJECT				

RIGHT-OF-WAY & EROSION CONTROL DETAILS



- ⬢ = TEMPORARY DITCH CHECKS
- ▣ = EROSION CONTROL BLANKET
- = PERIMETER EROSION BARRIER
- ⊠ = INLET & PIPE PROTECTION
- ▨ = RIP RAP
- ▩ = TURF REINFORCEMENT MAT



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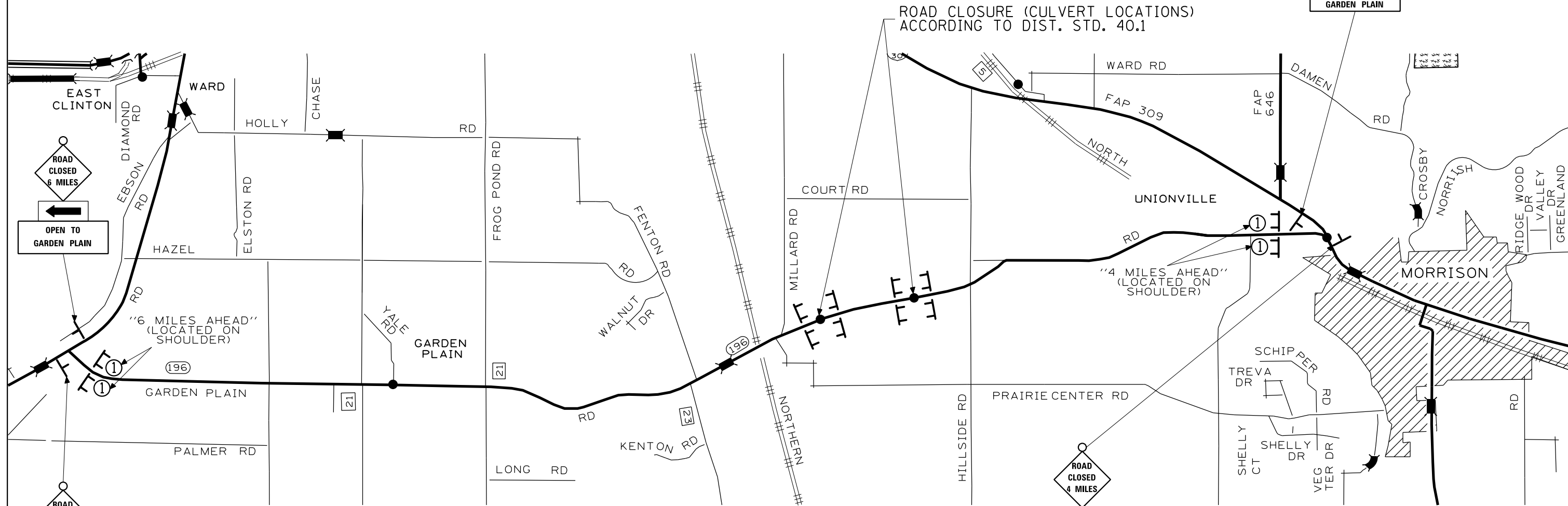
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RIGHT-OF-WAY & EROSION CONTROL DETAILS

SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
196	(O-2MFT)T	WHITESIDE	61	34
CONTRACT NO. 64H60				
ILLINOIS FED. AID PROJECT				

ROAD CLOSURE DETAIL



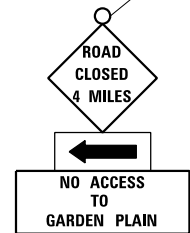
2.25" Radius, 0.75" Border, 0.50" Indent, Black on Orange;
 [OPEN TO] C 2K;
 [GARDEN PLAIN] C 2K 85% spacing;
 Table of letter and object lefts.

O	P	E	N	T	O
11.50	15.38	19.25	22.63	30.38	33.63
G	A	R	D	E	N
4.50	7.75	11.63	15.13	18.75	22.00
P	L	A	I	N	
28.88	32.50	35.25	39.13	40.75	



2.25" Radius, 0.75" Border, 0.50" Indent, Black on Orange;
 [NO ACCESS TO] C 2K;
 [GARDEN PLAIN] C 2K 85% spacing;
 Table of letter and object lefts.

N	O				
3.25	7.00				
A	C	C	E	S	S
14.00	17.75	21.50	25.25	28.50	31.88
T	O				
38.63	41.75				
G	A	R	D	E	N
4.50	7.75	11.63	15.13	18.75	22.00
P	L	A	I	N	
28.88	32.50	35.25	39.13	40.75	

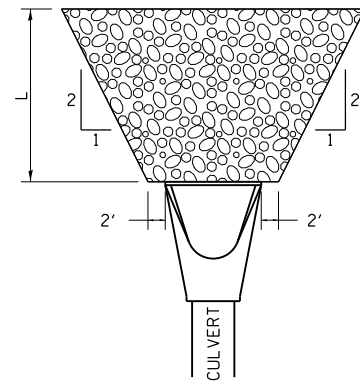


- TYPE III BARRICADES WITH FLASHERS PLACED AS SHOWN IN STANDARD 701901.
- ROAD CLOSED X MILE(S) SIGN WITH SUPPLEMENTAL PLATES AS REQUIRED IN THE SPECIAL PROVISIONS

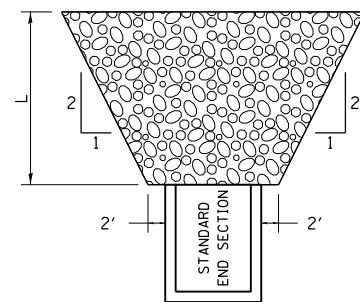
THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL)



RIPRAP AT END SECTIONS



FLARED END SECTION



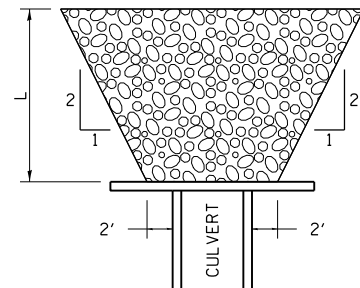
STANDARD END SECTION

REVISED - 11-12-14
2-10-14

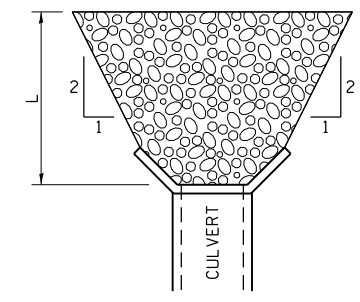
THE LENGTH OF RIPRAP (L) IS TO BE THREE (3) TIMES THE 10 YEAR CULVERT OUTLET VELOCITY, FROM THE WATERWAY INFORMATION TABLE (WIT).

IF THE CULVERT OUTLETS INTO A DEFINED CHANNEL, RIPRAP BANK TO BANK FOR LENGTH (L).

STANDARD END SECTION:
542001 (PIPE), 542011 (ELLIPTICAL)
DISTRICT STANDARD 10.1 (BOX).



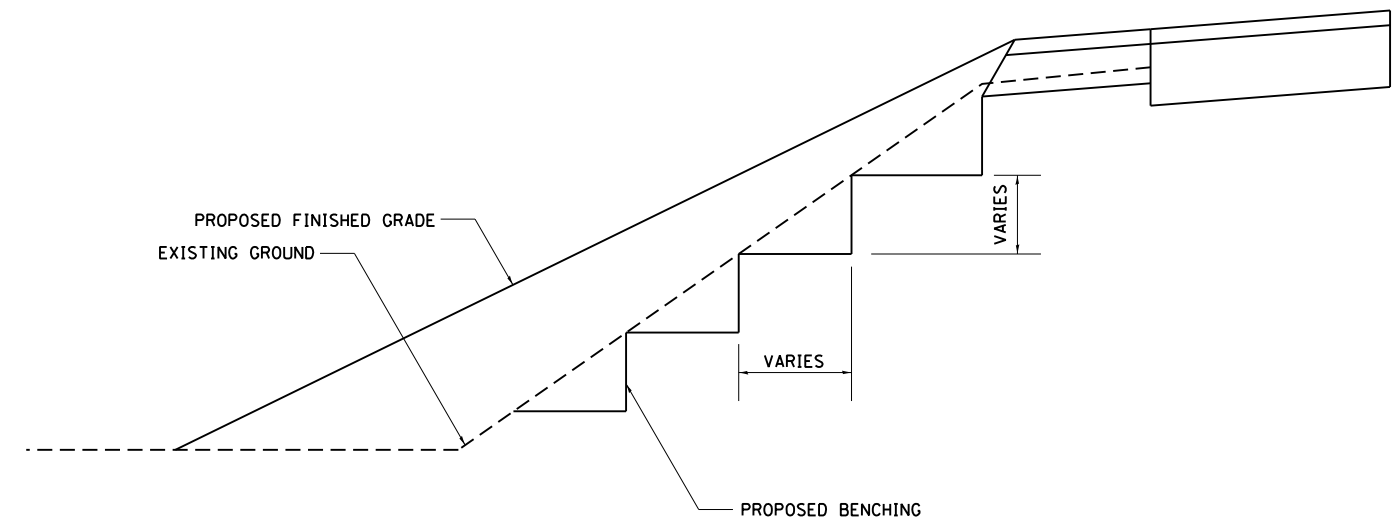
CULVERT WITH HEADWALL



CULVERT WITH WING WALLS

RIPRAP AT END SECTIONS 19.4

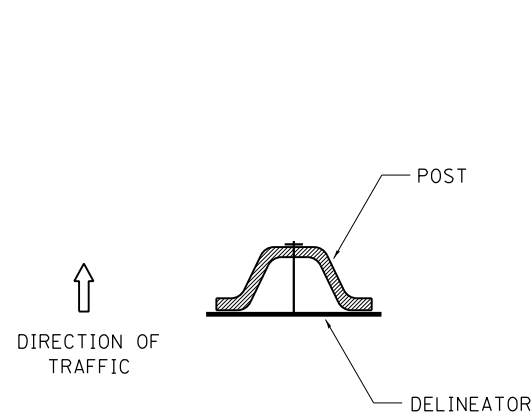
TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

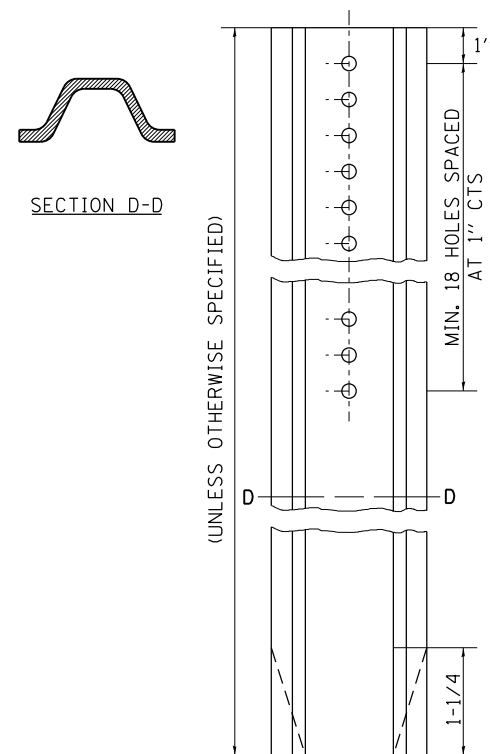
DELINEATOR AND POST ORIENTATION



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.

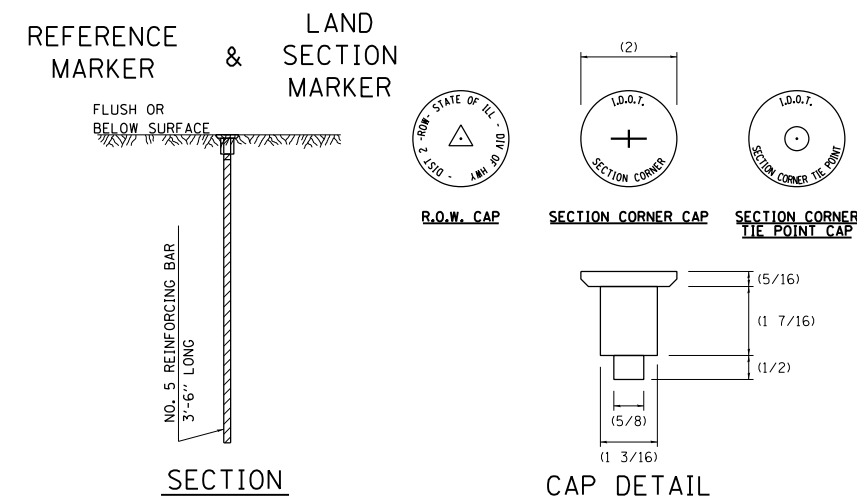
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-03-11

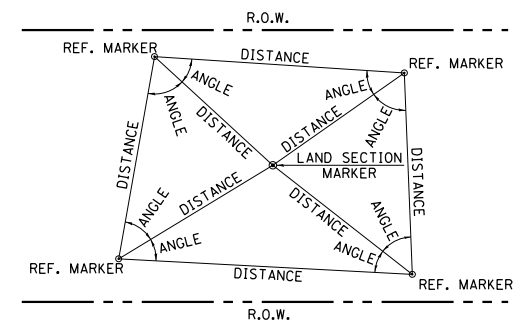


DELINEATOR AND POST ORIENTATION 37.4

LAND SECTION & REFERENCE MARKERS



METHOD OF REFERENCING MARKERS



METHOD OF REFERENCING POINTS

REFERENCE MARKERS SHALL BE USED TO TIE IN PERMANENT LAND SECTION AND 1/4 SECTION CORNERS. WHERE LAND SECTION MARKERS FALL IN THE SHOULDERS OR GRAVEL SURFACES, THE TOP OF THE BAR SHALL BE KEPT 3" BELOW THE SURFACE. LAND SECTION MARKERS LOCATED IN TRAFFIC LANES SHALL BE REPLACED BY CORE DRILL AND RESETTING PIN.

ALUMINUM CAPS SHALL BE PLACED ON TOP OF THE REINFORCEMENT BAR. THERE ARE 3 TYPES OF CAPS, ONE FOR THE RIGHT-OF-WAY CORNERS, ONE FOR THE SECTION CORNERS AND ONE FOR THE SECTION CORNER TIE POINTS. THE CAPS WILL BE SUPPLIED BY THE SURVEYOR WHO IS RESPONSIBLE FOR MONUMENTING CORNERS.

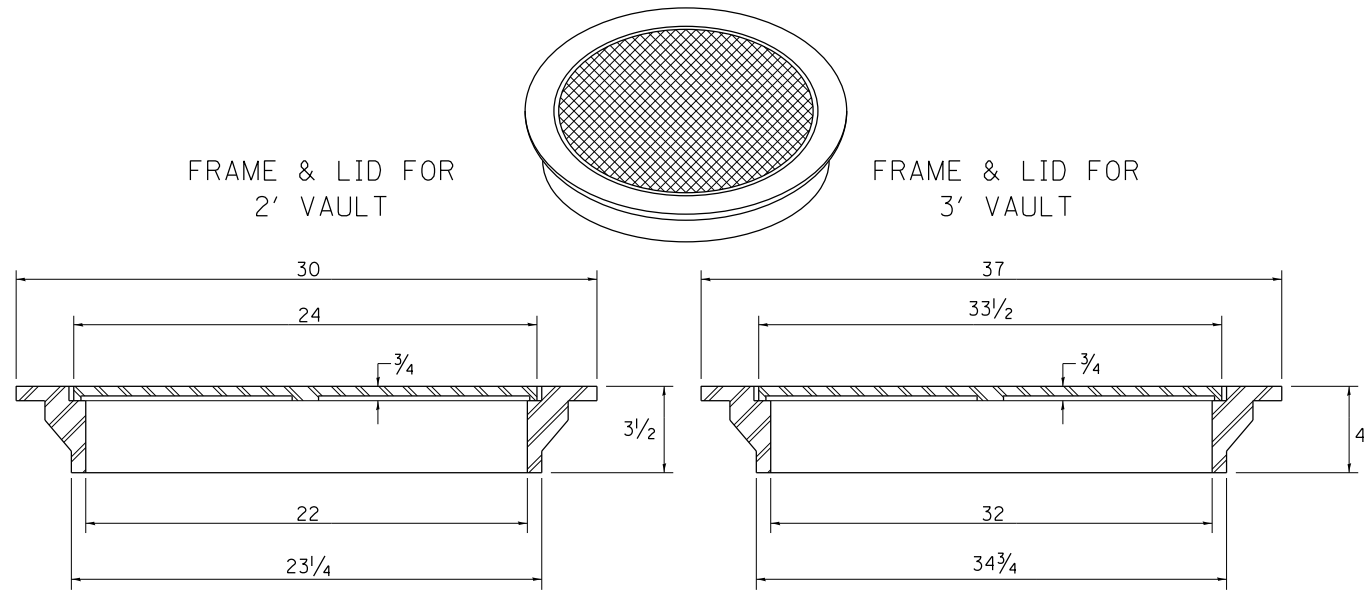
- USE INSTRUMENT TIES TO NEARBY LAND-MARKS (STEEPLES, TOWERS, SILOS, ETC...)
- IN CULTIVATED FIELDS, SET 28" OR MORE BELOW GROUND SURFACE.
- IN FENCE LINE OR PROTECTED AREA SET TOP AT GROUND LEVEL SO AS NOT TO BE DISTURBED BY MOWING.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 3-05-10	REGION 2 / DISTRICT 2 STANDARD		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -	SCALE: 48,000' = 1"	SHEET NO. OF SHEETS	196	(0-2MFT)T	WHITESIDE	61	37
REVISED -	STA. TO STA.		CONTRACT NO. 64HE0		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

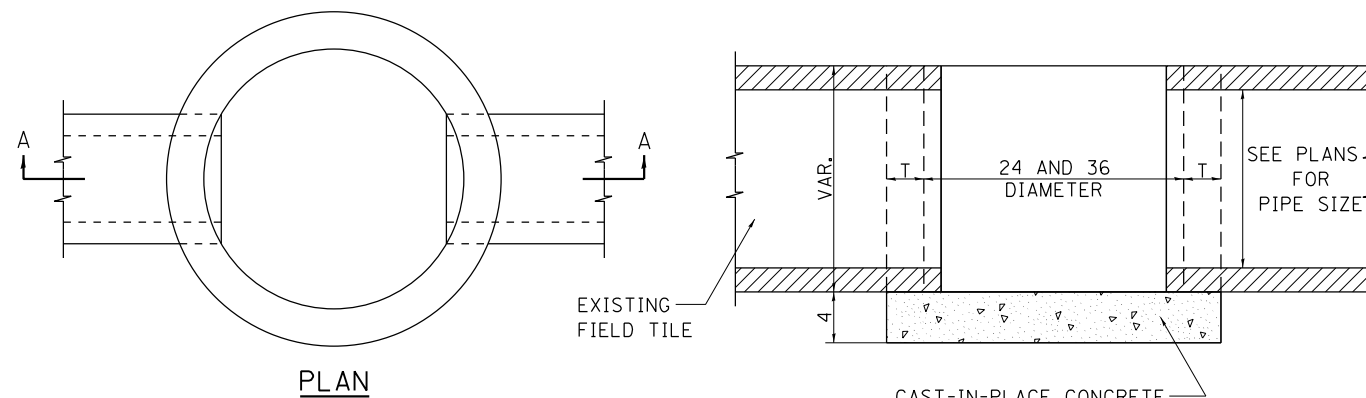
LAND SECTION & REFERENCE MARKERS 63.4

FIELD TILE JUNCTION VAULTS 2' AND 3' DIA.



TOTAL WEIGHT: 146 LBS.

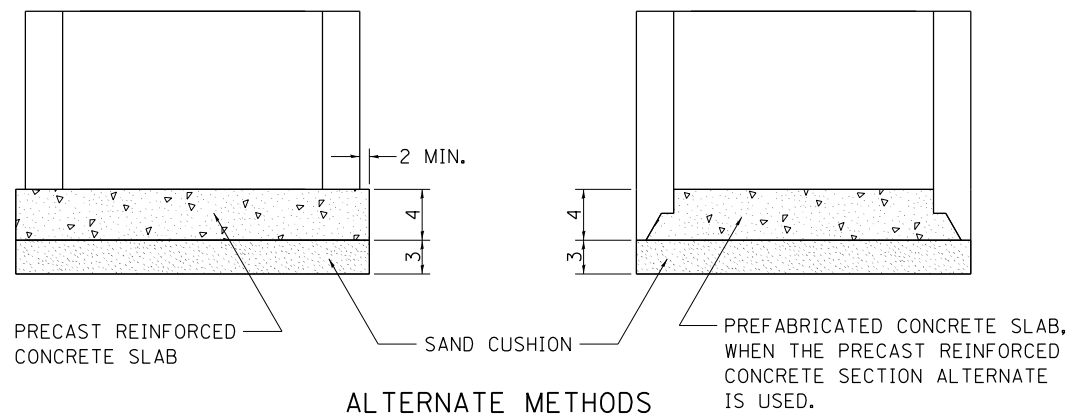
TOTAL WEIGHT: 280 LBS.



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.

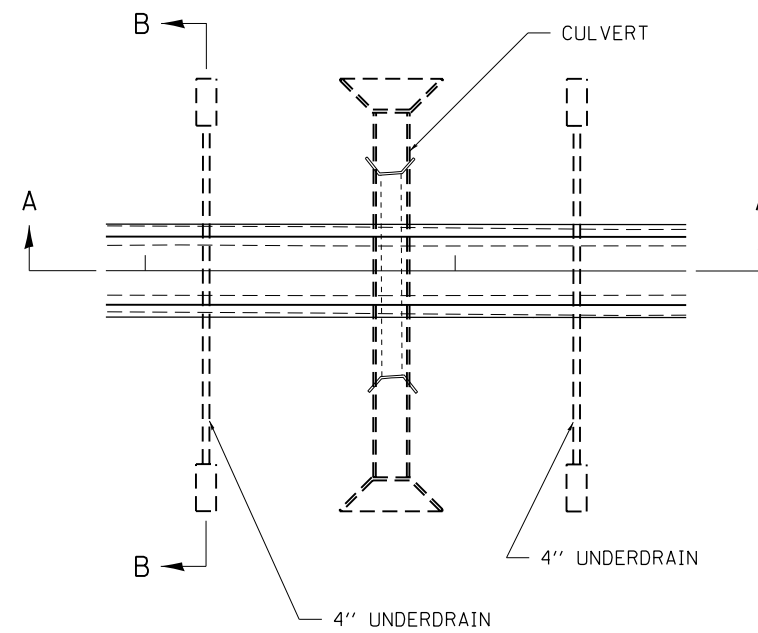
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



ALTERNATE METHODS

REVISED - 6-27-14
10-14-11

UNDERDRAIN FOR ACROSS ROAD (AR) CULVERTS



NOTES:

IN SAG CONDITIONS INSTALL PIPE UNDERDRAINS ON BOTH SIDES OF CULVERT.

ON HIGHWAY GRADES GREATER THAN 2% INSTALL 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.

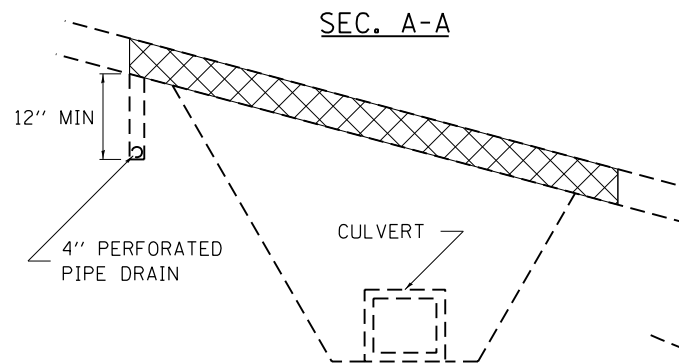
THE TRENCH FOR THE UNDERDRAIN SHALL BE BACKFILLED WITH CA11 OR CA16.

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.

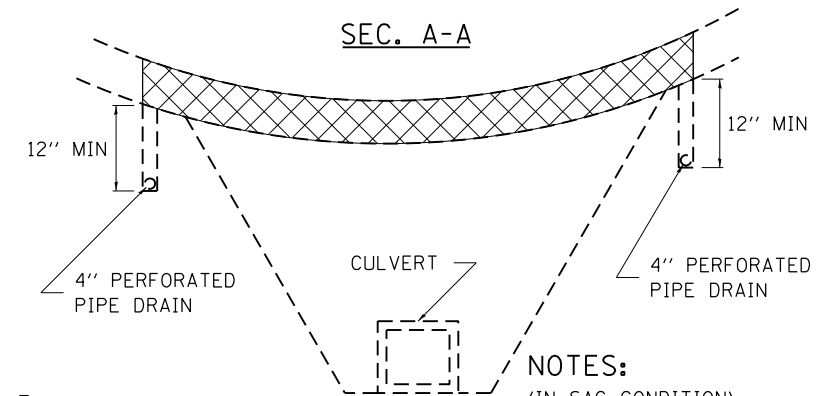
PIPE UNDERDRAINS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR PIPE UNDERDRAINS 4".

CONCRETE HEADWALLS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR CONCRETE HEADWALLS FOR PIPE DRAINS.

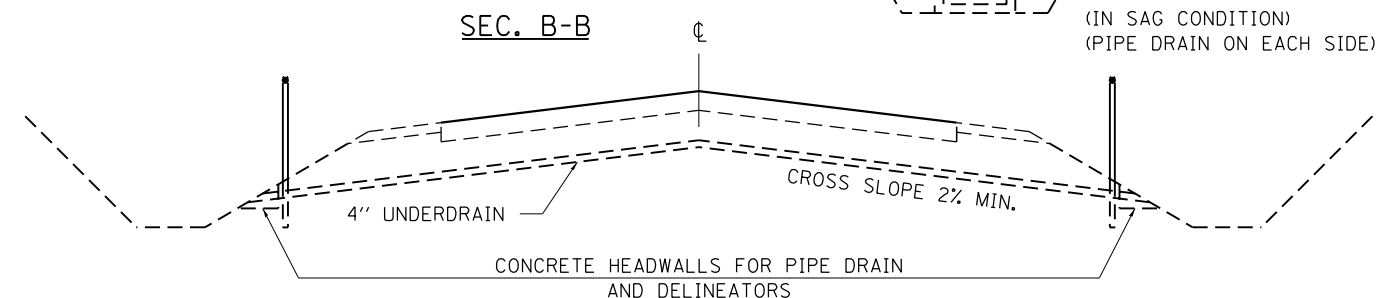
A DELINEATOR SHALL BE PLACED AT EACH CONCRETE HEADWALL. THESE BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR DELINEATORS.



NOTES:
(HIGHWAY GRADE GREATER THAN 2%)

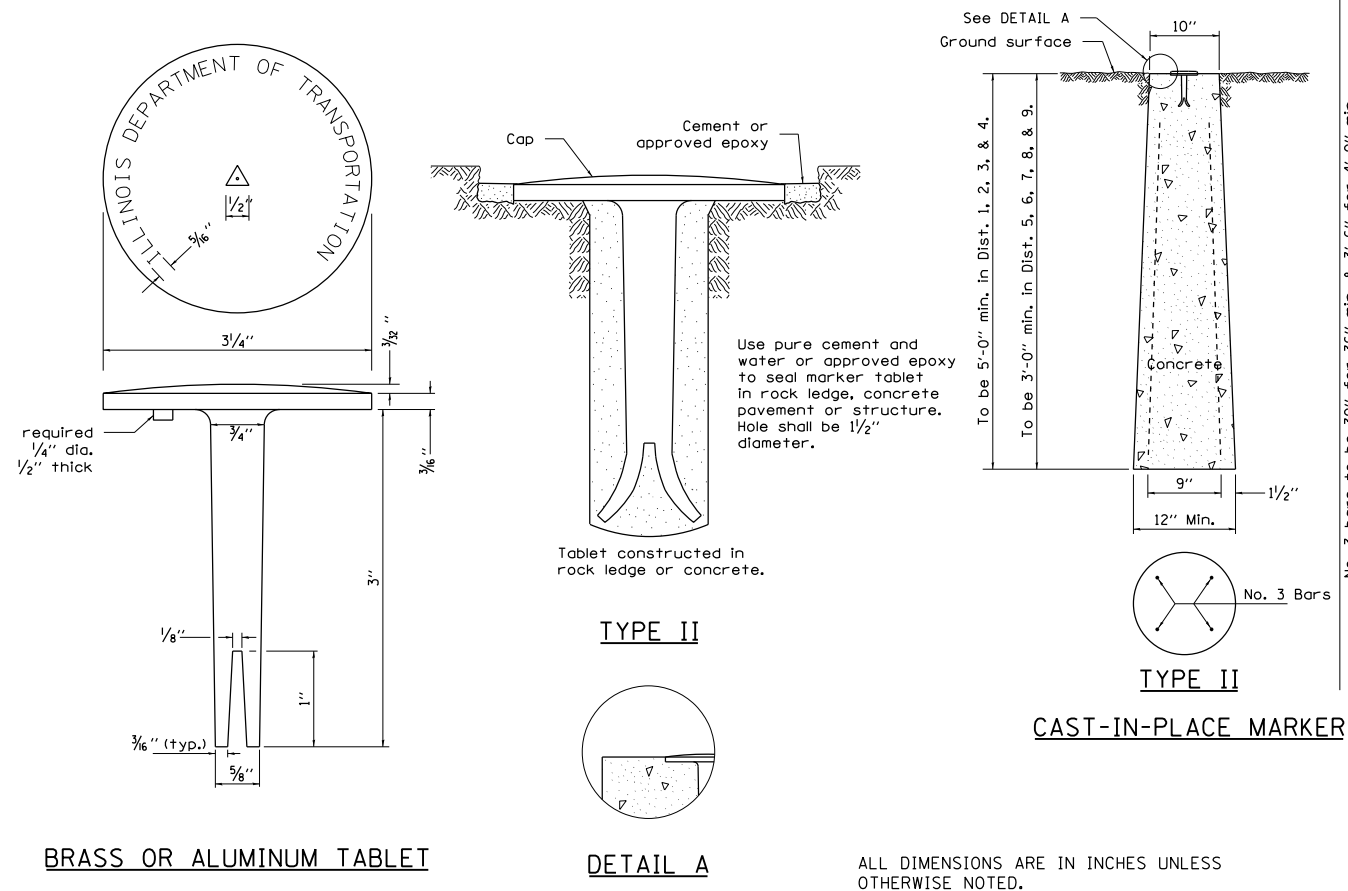


NOTES:
(IN SAG CONDITION)
(PIPE DRAIN ON EACH SIDE)

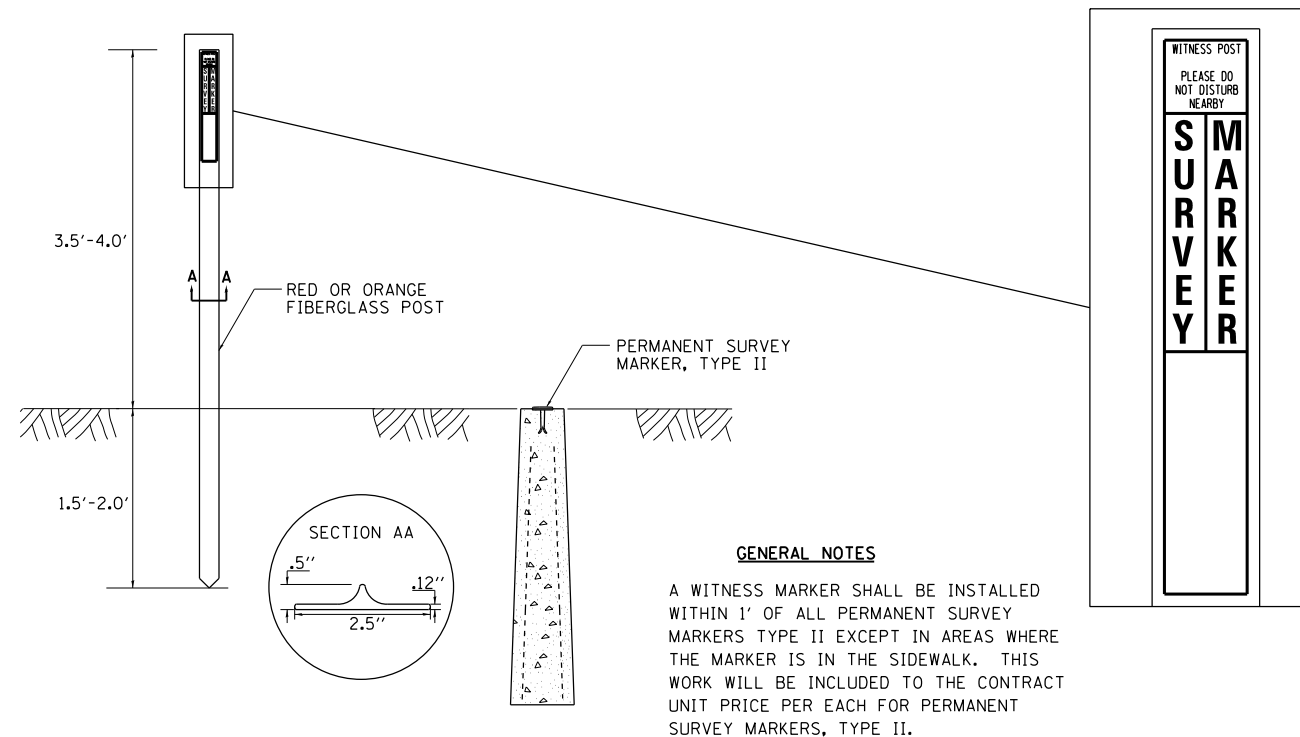


REVISED - 6-27-14	REGION 2 / DISTRICT 2 STANDARD	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 7-05-12		196	(0-2MFT)T	WHITESIDE	61	38
REVISED -		CONTRACT NO. 64H60				
REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PERMANENT SURVEY MARKERS, TYPE II



WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



6-27-14
10-14-11

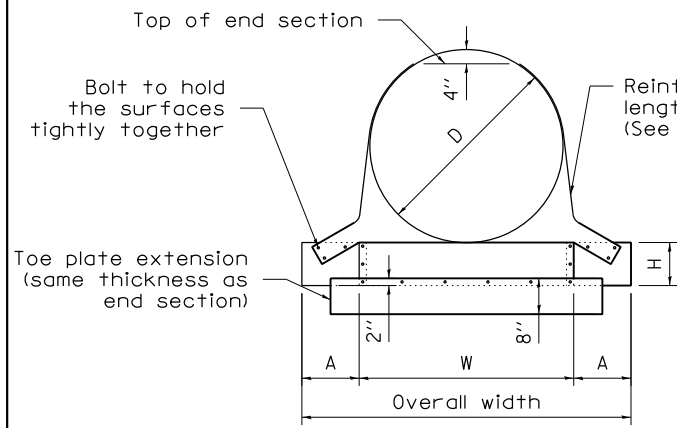
REVISÉD -	REGION 2 / DISTRICT 2 STANDARD	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISÉD -		196	(0-2MFT)T	WHITESIDE	61	39
REVISÉD -		CONTRACT NO. 64H60				
REVISÉD -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCALE: 1/2" = 1'-0" SHEET NO. OF SHEETS STA. TO STA.

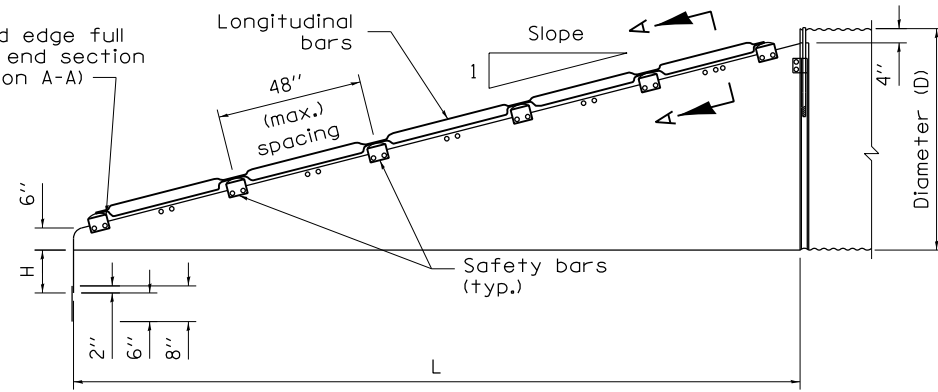
SLOPED METAL END SECTIONS WITH GRATE

GENERAL NOTES

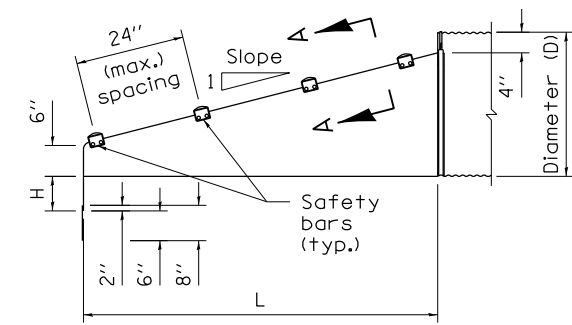
1. USE END SECTIONS ON 1V:4H TO 1V:6H SLOPES ONLY. USE TOE PLATE EXTENSION.
2. A 1:6 SLOPED END SECTION WILL BE USED FOR ALL PARALLEL DRAINAGE STRUCTURE END SECTIONS.
3. FABRICATE SAFETY AND LONGITUDINAL BARS FROM STEEL PIPE CONFORMING TO ASTM A53 SCHEDULE 40 SPECIFICATIONS. GALVANIZE BARS HOT DIPPED AFTER FABRICATION.
4. A LONGITUDINAL BAR IS REQUIRED FOR CROSS DRAINAGE END SECTIONS WHEN THE SPAN IS GREATER THAN 30". USE ADDITIONAL LONGITUDINAL BARS IF SPACING EXCEEDS 30" ON LARGER END SECTIONS.
5. SAFETY AND LONGITUDINAL BARS ARE NOT REQUIRED ON 30" AND SMALLER CROSS DRAINAGE END SECTIONS.
6. THESE END SECTIONS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR SLOPED METAL END SECTIONS WITH GRATE OF THE DIAMETER SPECIFIED, WHICH SHALL INCLUDE FURNISHING AND INSTALLING THE END SECTION COMPLETE IN PLACE, INCLUDING THE TOE PLATE, EXCAVATING, BACKFILLING, CONNECTING TO THE PIPE, AND CROSS DRAINAGE BARS.



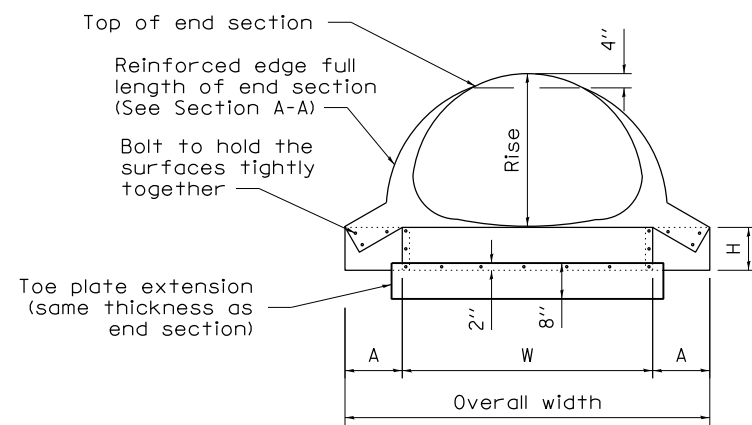
FRONT VIEW
ROUND PIPE CULVERT



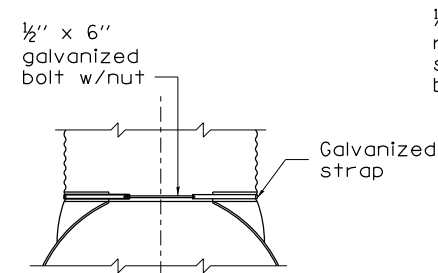
ELEVATION
CROSS DRAINAGE END SECTION



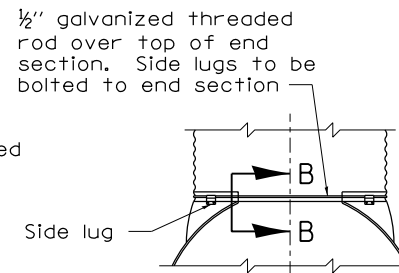
ELEVATION
PARALLEL DRAINAGE END SECTION



FRONT VIEW
PIPE ARCH CULVERT

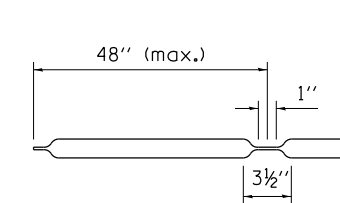


FOR METAL ROUND PIPES
15" THRU 24"
TYPE #1

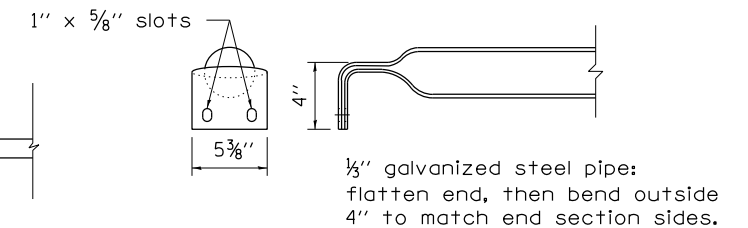


FOR METAL ROUND PIPES 30"
AND LARGER, FOR PIPE ARCHES
21" X 15" AND LARGER
TYPE #2

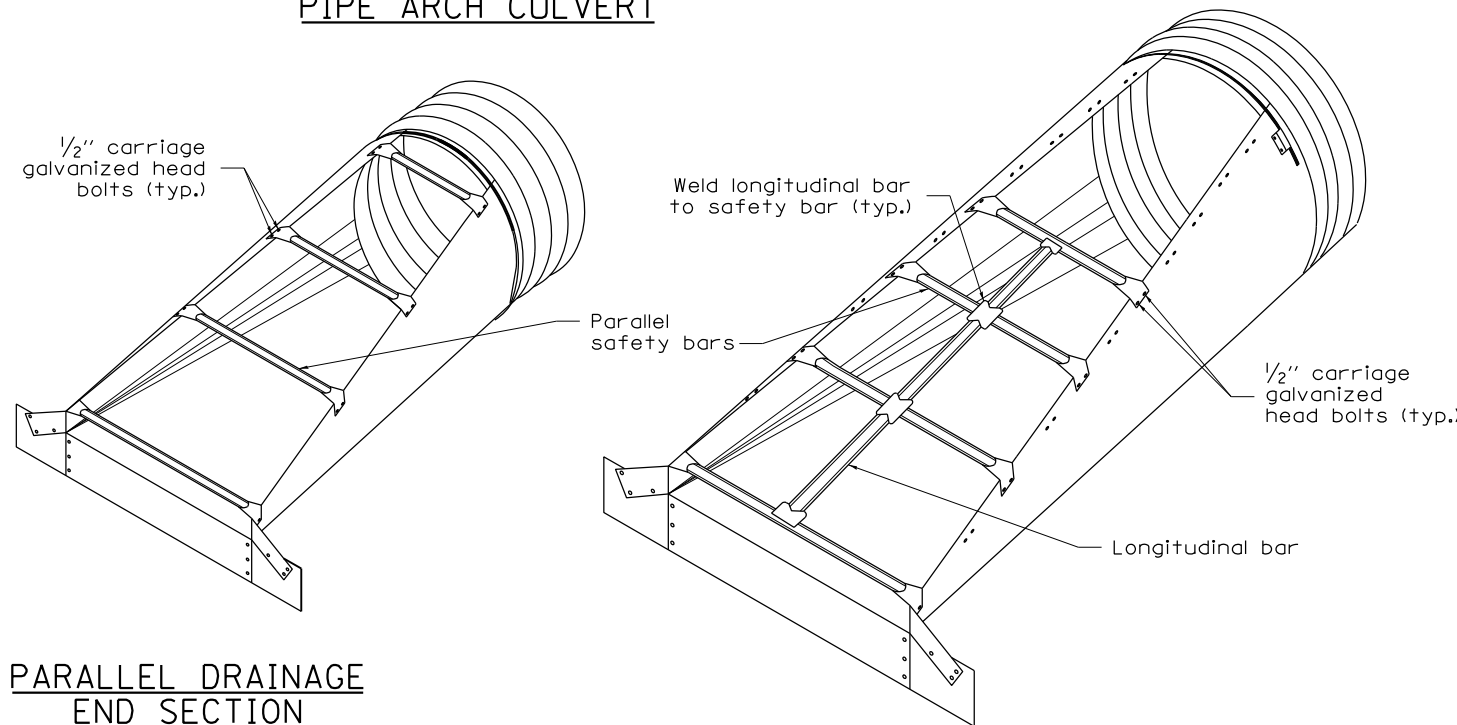
CONNECTOR DETAILS



LONGITUDINAL DRAINAGE BAR

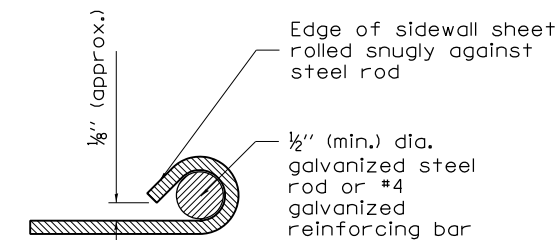


PARALLEL BARS

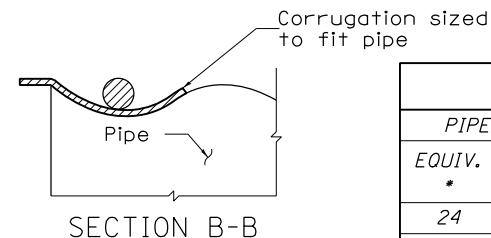


PARALLEL DRAINAGE
END SECTION

CROSS DRAINAGE END SECTION



SECTION A-A



SECTION B-B

NO SCALE

METAL END SECTIONS FOR ROUND PIPE CULVERT

PIPE SIZE • INCHES	METAL THICK (MIN.) INCH/GAGE	DIMENSIONS IN INCHES					
		A	H	W	OVERALL WIDTH	L	
						Slope=4	Slope=6
24	0.064/16	8	6	30	46	55	83
30	0.109/12	12	9	36	60	79	118
36	0.109/12	12	9	42	66	102	154
42	0.109/12	16	12	48	80	126	189
48	0.109/12	16	12	54	86	150	224
54	0.109/12	16	12	60	92	173	260
60	0.109/12	16	12	66	98	197	295

METAL END SECTIONS FOR PIPE ARCH CULVERT

PIPE SIZE (INCHES)			METAL THICK (MIN.) INCH/GAGE	DIMENSIONS (INCHES)					
EQUIV. •	SPAN	RISE		A	H	W	OVERALL WIDTH	L	
								Slope=4	Slope=6
24	28	20	0.064/16	8	6	33	49	40	60
30	35	24	0.109/12	12	9	40	64	55	83
36	41	29	0.109/12	12	9	47	71	75	112
42	48	32	0.109/12	16	12	54	86	90	136
48	56	37	0.109/12	16	12	62	94	110	165
54	63	42	0.109/12	16	12	69	101	130	195
60	70	46	0.109/12	16	12	76	107	146	218
72	82	56	0.109/12	16	12	88	120	185	278

FILE NAME =	USER NAME = batesr1	DESIGNED -	REVISED -
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PLOT SCALE = 40.0000' / in.		CHECKED -	REVISED -
PLOT DATE = Wed Jan 21 12:47:15 2015		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

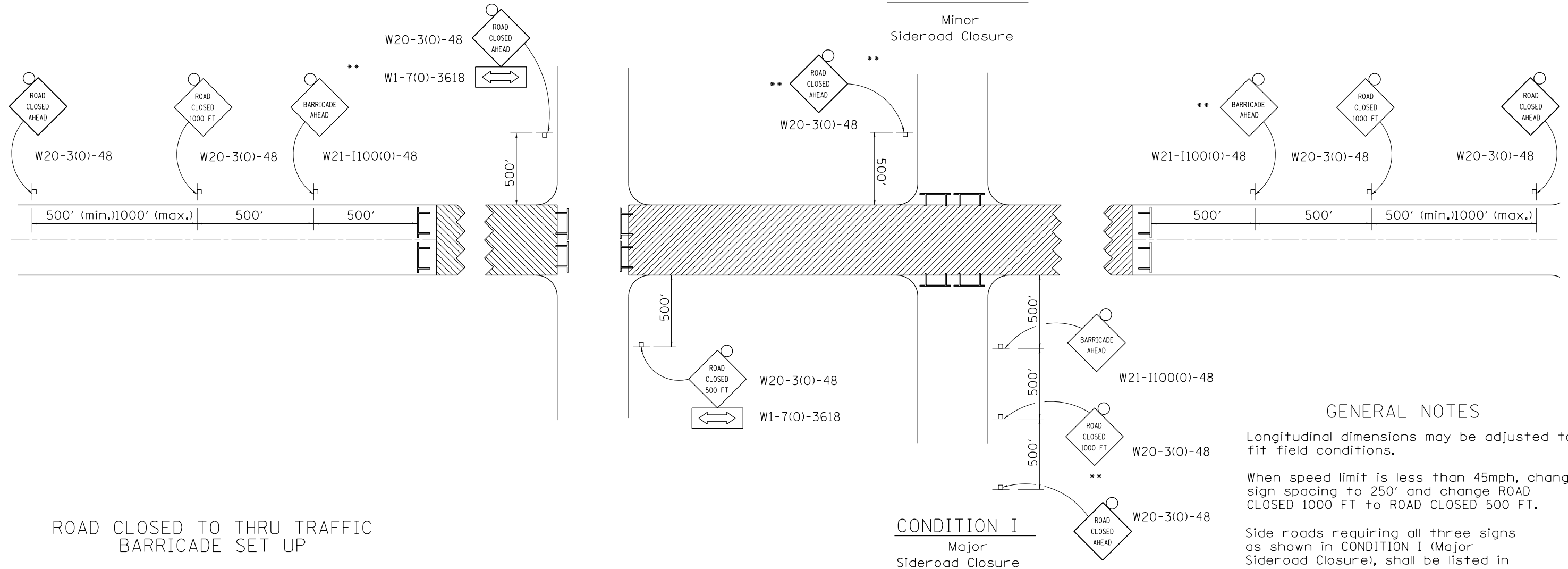
SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
196	(0-2MFT)T	WHITESIDE	61	40
CONTRACT NO. 64460				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

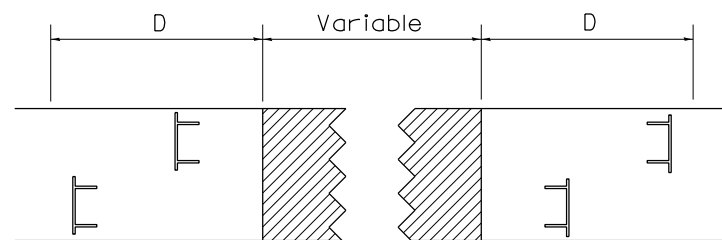
TRAFFIC CONTROL FOR ROAD CLOSURE

CONDITION II

Minor Sideroad Closure






ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 2000' an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

SYMBOLS

-  Work area
-  Type III Barricade with Flashers
-  Sign with flashing light

GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

** Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic. Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

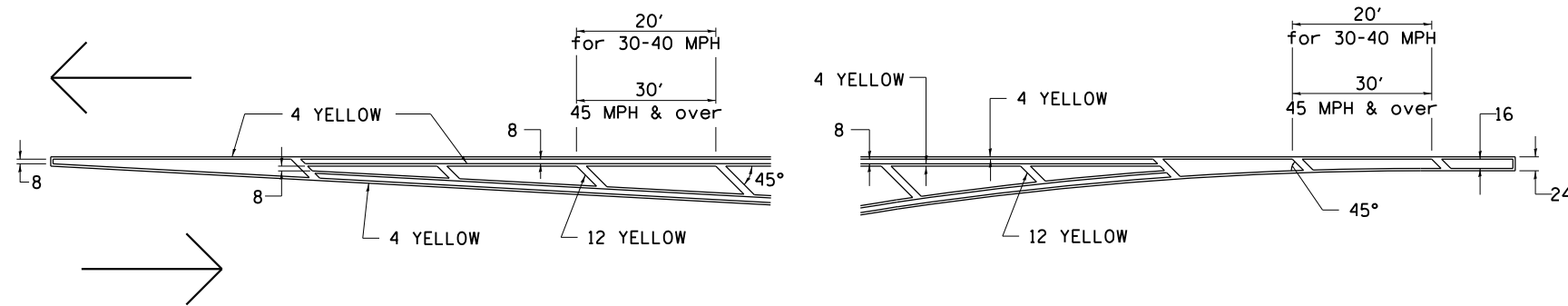
All dimensions are in inches unless otherwise shown.

TYPICAL APPLICATION FOR ROAD CLOSURE

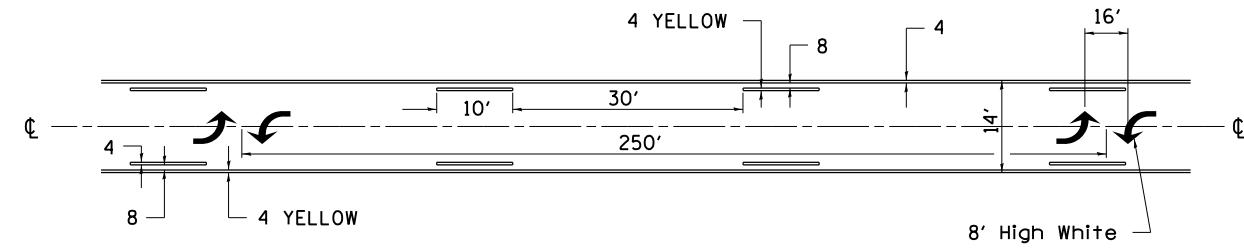
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ca:\pw\work\p1dot\bates1\10309241\02-sh-deta1.s.dgn	DRAWN -	REVISED -	196					(0-2MFT)T	WHITESIDE	61	42	
PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 64H60									
PLOT DATE = Wed Jan 21 12:47:59 2015	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT									

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

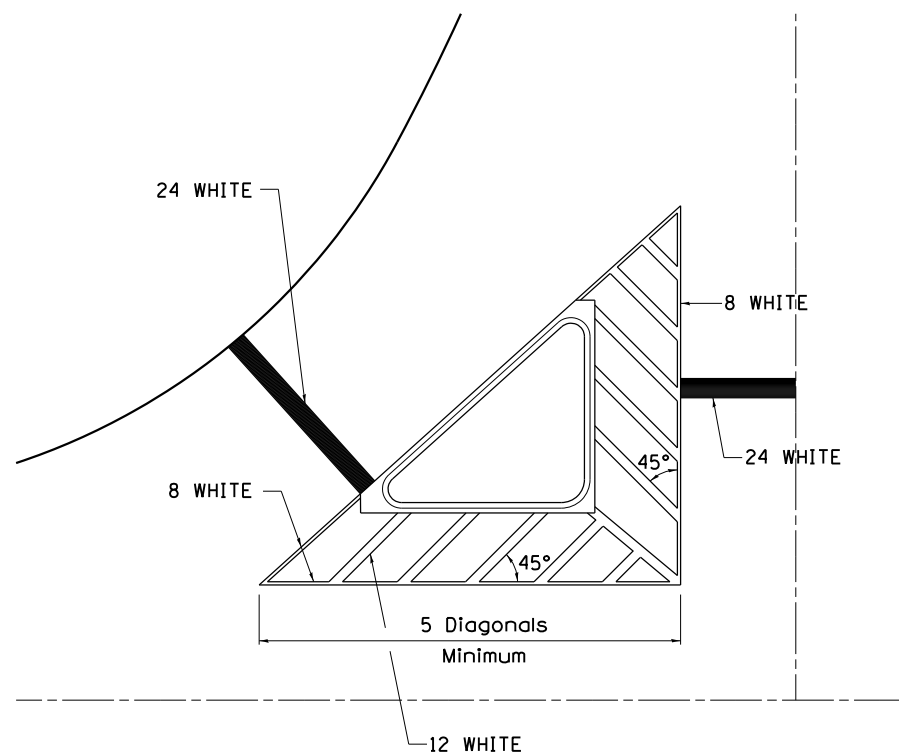


MEDIAN PAVEMENT MARKING



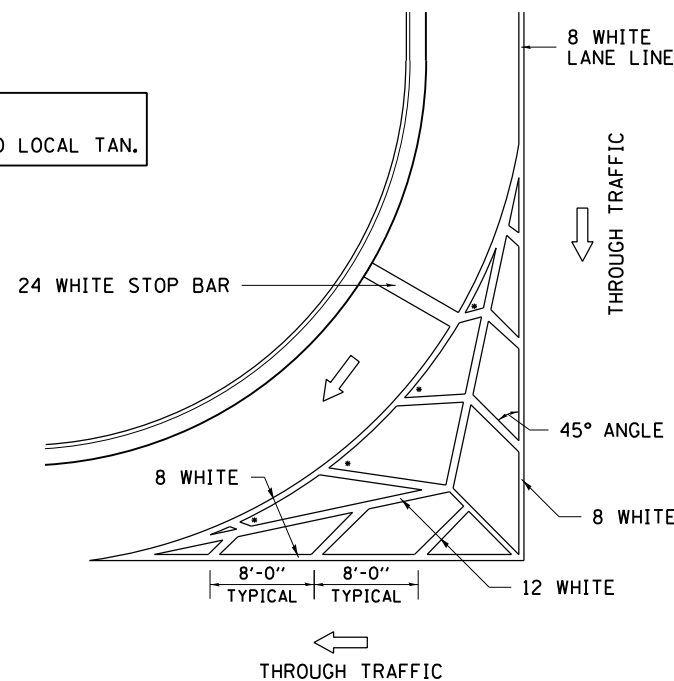
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



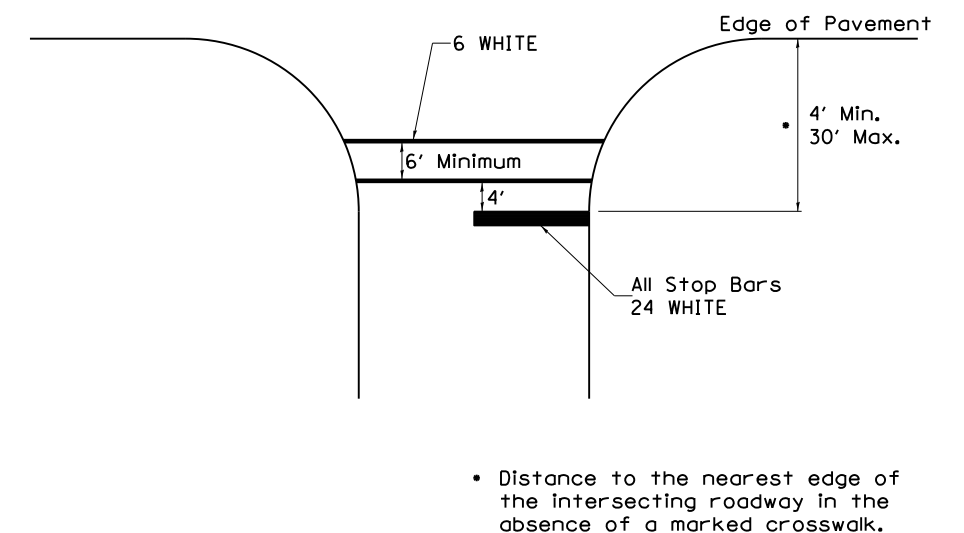
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

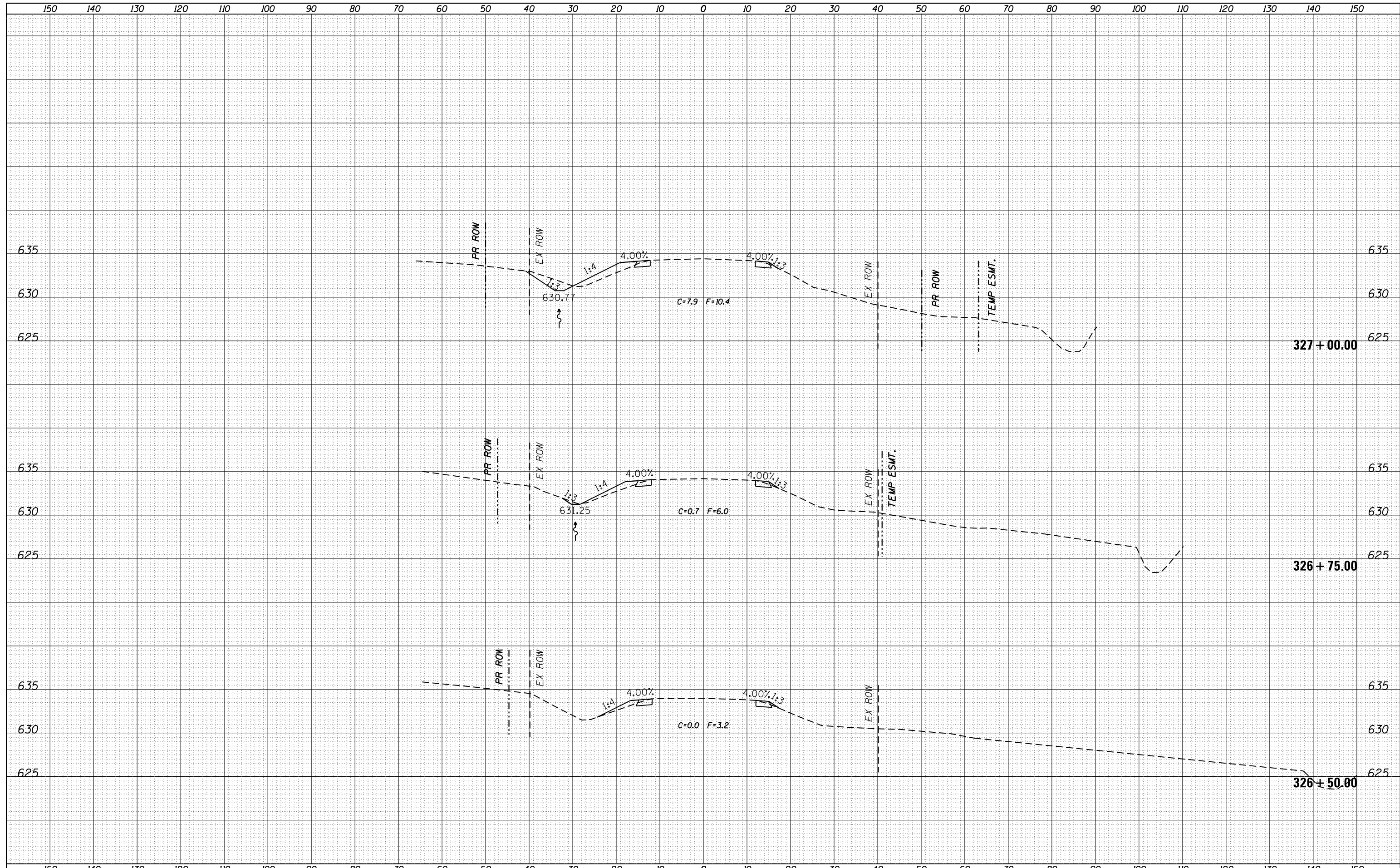
See Schedules for Locations



FILE NAME =	USER NAME = batesr1	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw\work\p\idot\batesr1\0309241\02-shc-details.dgn	DRAWN -	REVISED - 3-05-12	196				(0-2MFT)T	WHITESIDE	61	43	
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PLOT DATE = Wed Jan 21 12:48:25 2015	DATE -	REVISED -	FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT								

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

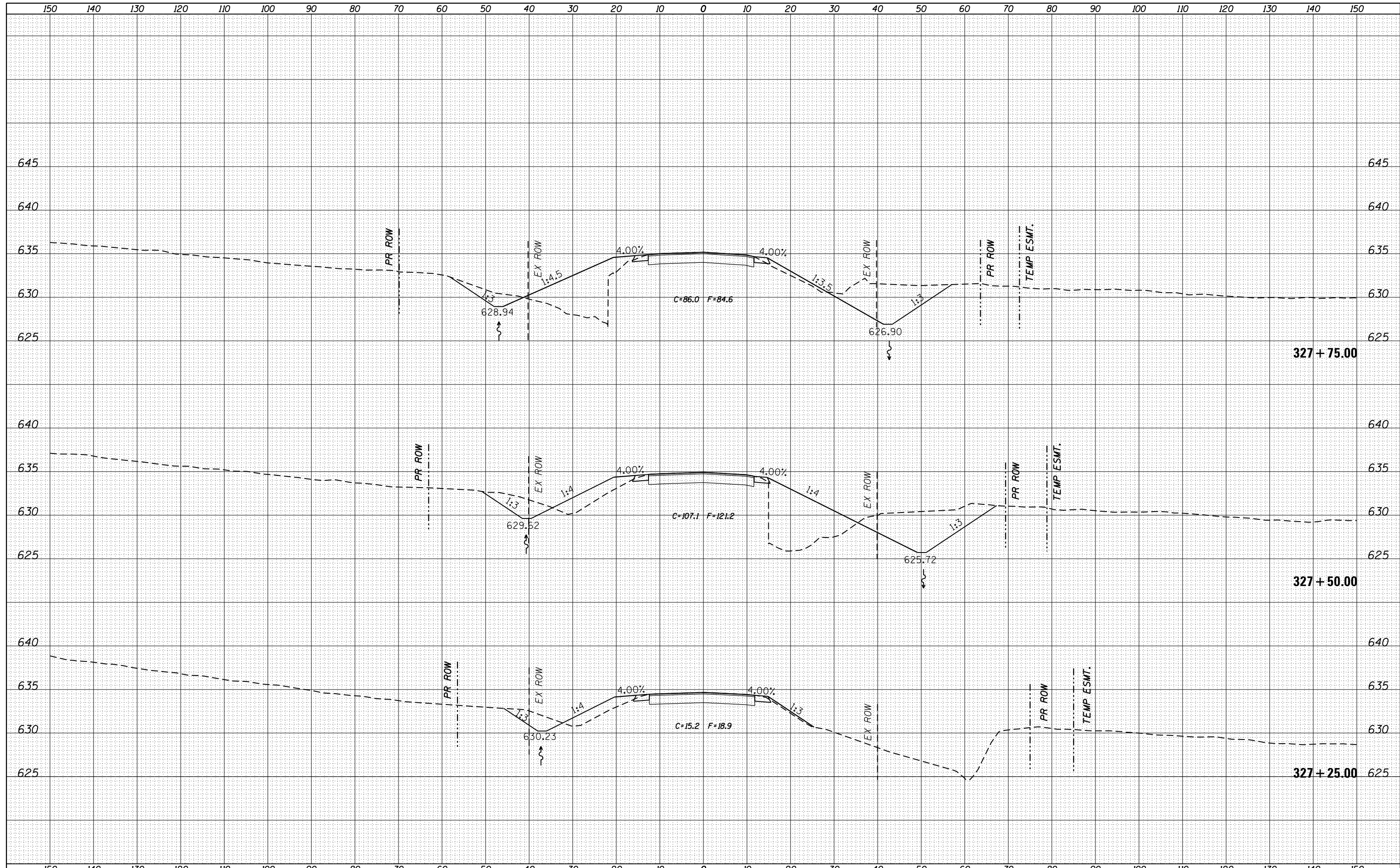
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BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	



FILE NAME =	USER NAME = batesr1	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GARDEN PLAIN ROAD CROSS SECTIONS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\pwidot\batesr1\d0309241\02-sh-t-xssht.dgn	DRAWN - _____	REVISED - _____	196				(0-2MFT)	WHITESIDE	61	48	
Default	PLOT SCALE = 20.0000' / in.	CHECKED - _____	REVISED - _____		SCALE: _____ SHEET _____ OF _____ SHEETS		STA. 326+50.00 TO STA. 327+00.00		CONTRACT NO. 64H60		
	PLOT DATE = Thu Jan 22 15:19:12 2015	DATE - _____	REVISED - _____		ILLINOIS FED. AID PROJECT						

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

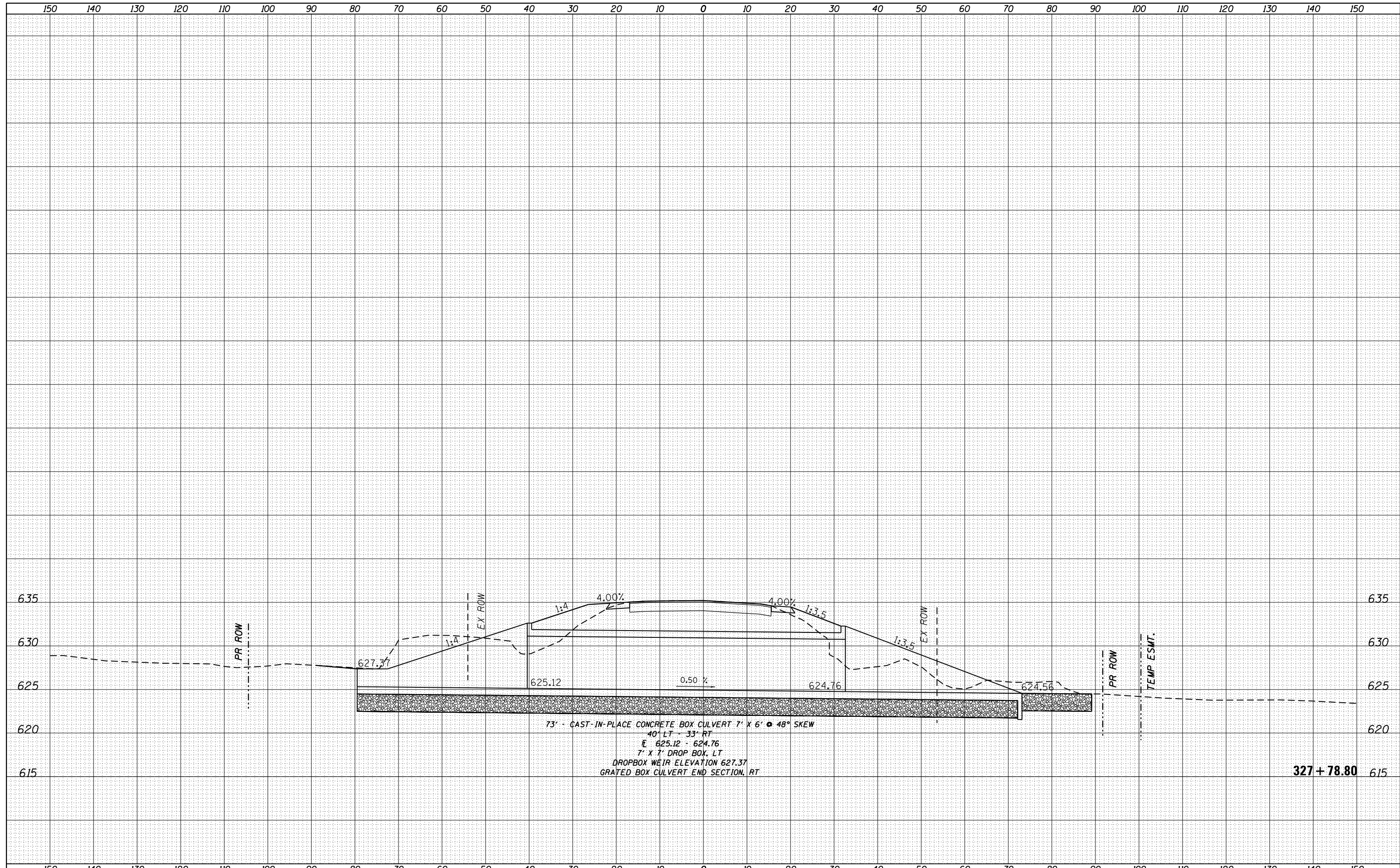
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



FILE NAME =	USER NAME = batesr1	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GARDEN PLAIN ROAD CROSS SECTIONS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	es:\pw_work\pwidot\batesr1\d0309241\02-sh-t-xssht\dgn	DRAWN - _____	REVISED - _____			196	(0-2MFT)T	WHITESIDE	61	49	
		CHECKED - _____	REVISED - _____			CONTRACT NO. 64H60					
	PLOT DATE = Thu Jan 22 15:28:34 2015	DATE - _____	REVISED - _____			SCALE: _____	SHEET _____	OF _____	SHEETS	STA. 327+25.00	TO STA. 327+75.00

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

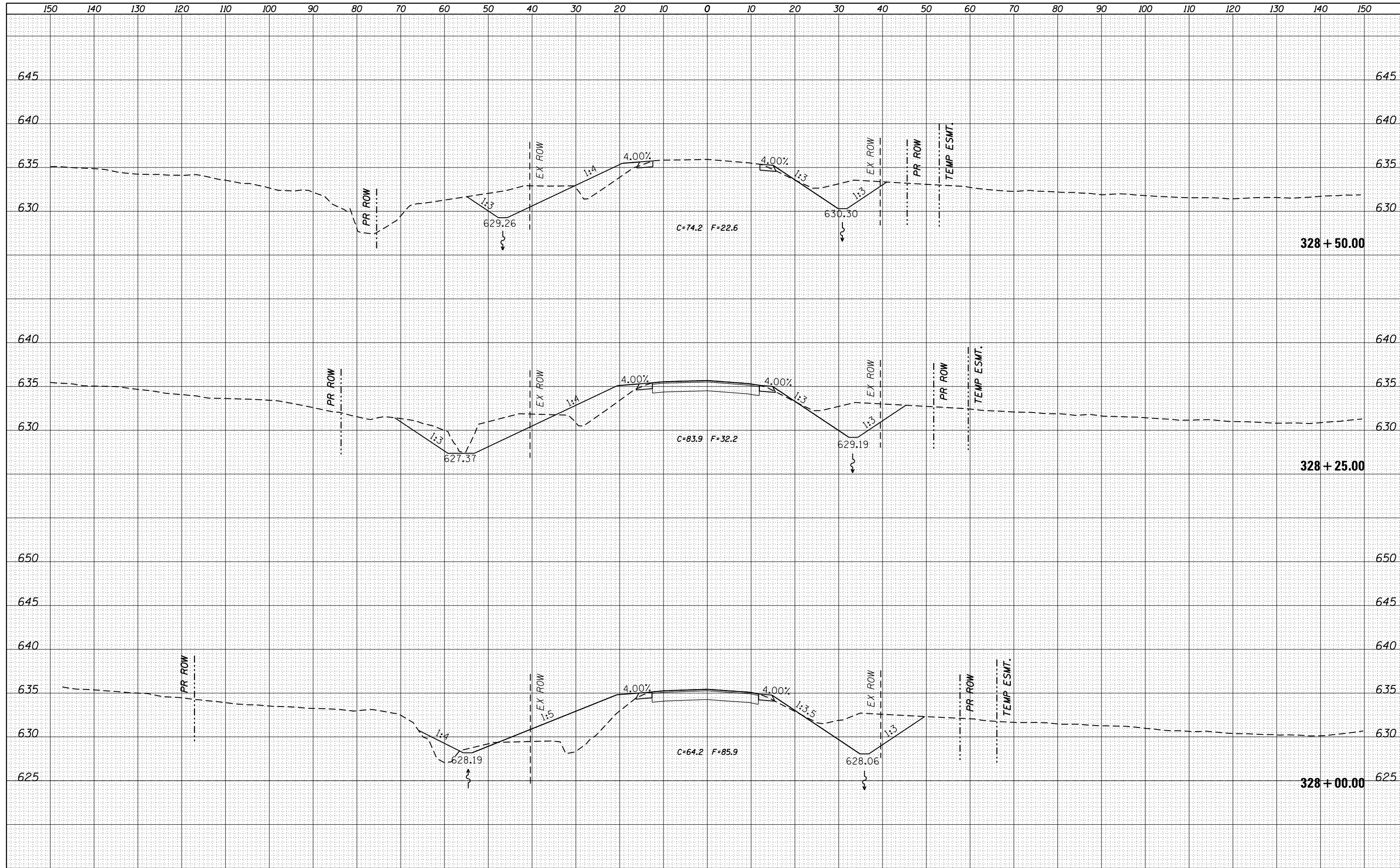
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BY	
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FILE NAME =	USER NAME = batesr1	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GARDEN PLAIN ROAD CROSS SECTIONS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pw_work\pwidot\batesr1\d0309241\02-sh-t-xssht.dgn		DRAWN -	REVISD -			196	(0-2MFT)	WHITESIDE	61	50	
Default		CHECKED -	REVISD -			CONTRACT NO. 64H60					
		DATE -	REVISD -			ILLINOIS FED. AID PROJECT					

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

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



FILE NAME =	USER NAME = batesr1	DESIGNED -	REVISIED -
ca:\pw_work\pwidot\batesr1\d0309241\02-sh-t-xssht\dgn		DRAWN -	REVISIED -
Default		CHECKED -	REVISIED -
		DATE -	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

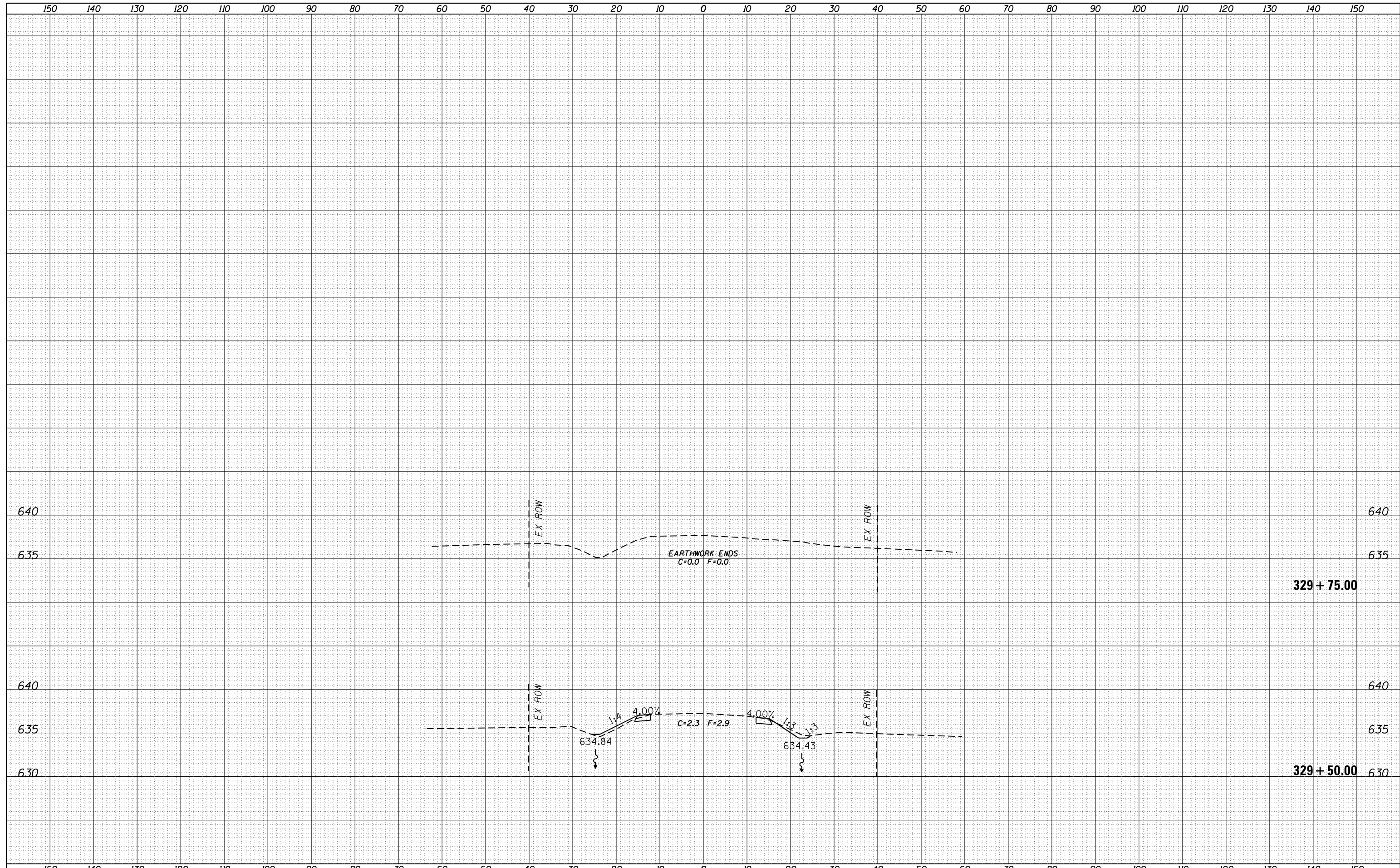
GARDEN PLAIN ROAD CROSS SECTIONS

SCALE: _____ SHEET _____ OF _____ SHEETS STA. 328+00.00 TO STA. 328+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
196	(0-2MFT)T	WHITESIDE	61	51
CONTRACT NO. 64H60				
ILLINOIS FED. AID PROJECT				

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

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



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	DRAWN - _____	REVISED - _____
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PLOT DATE = Thu Jan 22 15:29:50 2015	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

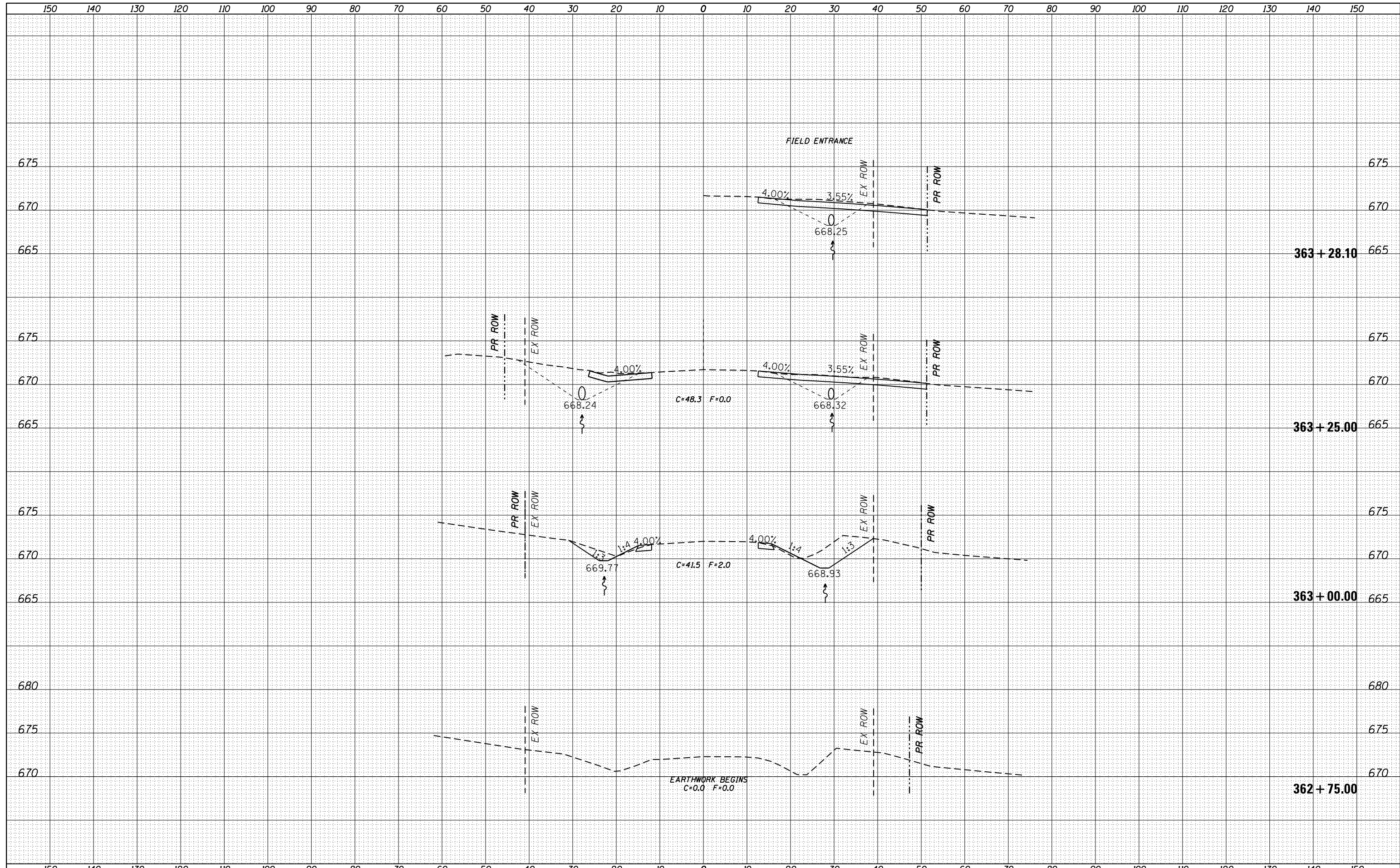
GARDEN PLAIN ROAD CROSS SECTIONS

SCALE: _____ SHEET ____ OF ____ SHEETS STA. 329+50.00 TO STA. 329+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
196	(0-2MFT)T	WHITESIDE	61	53
				CONTRACT NO. 64H60
ILLINOIS FED. AID PROJECT				

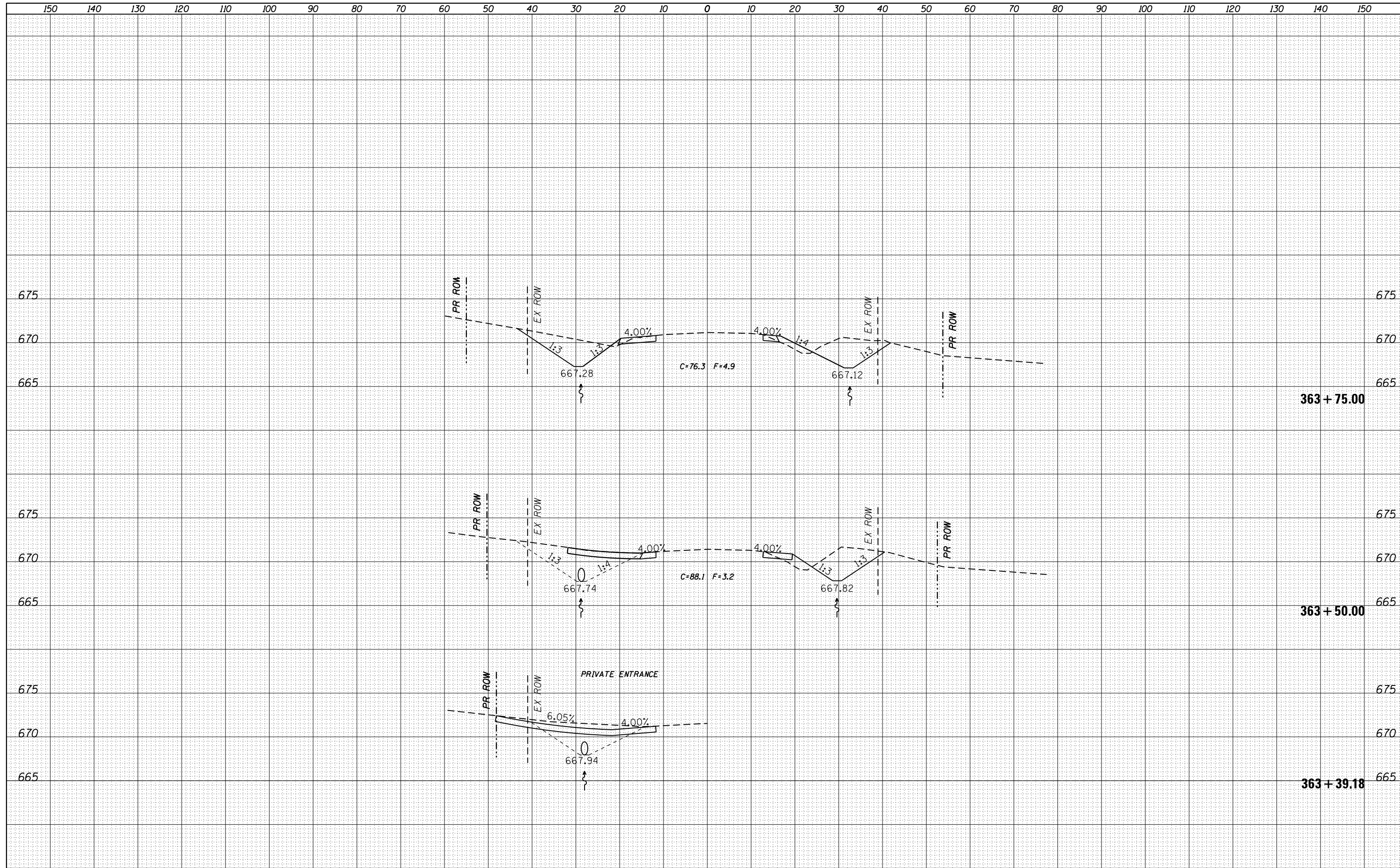
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



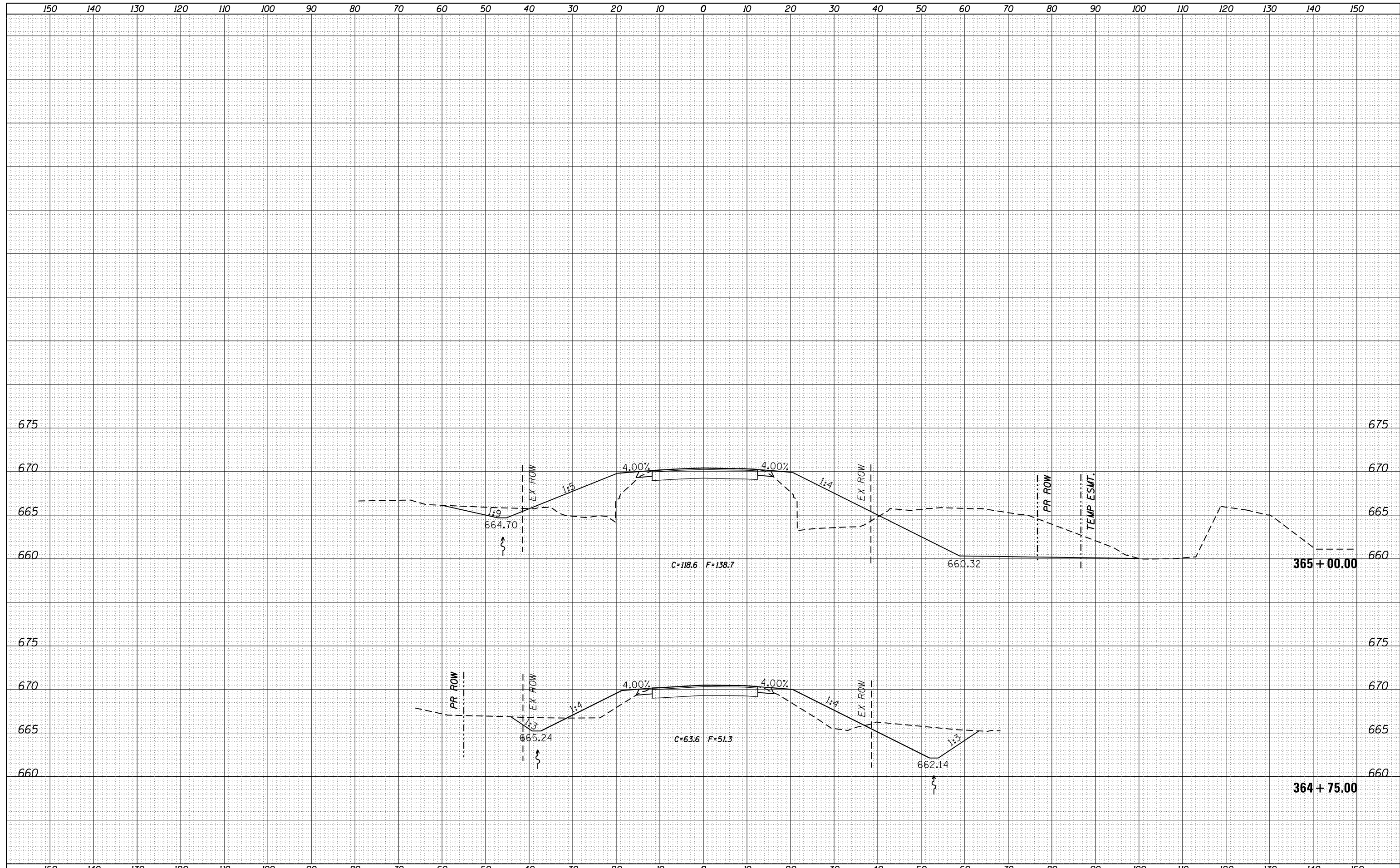
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

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NOTE BOOK	
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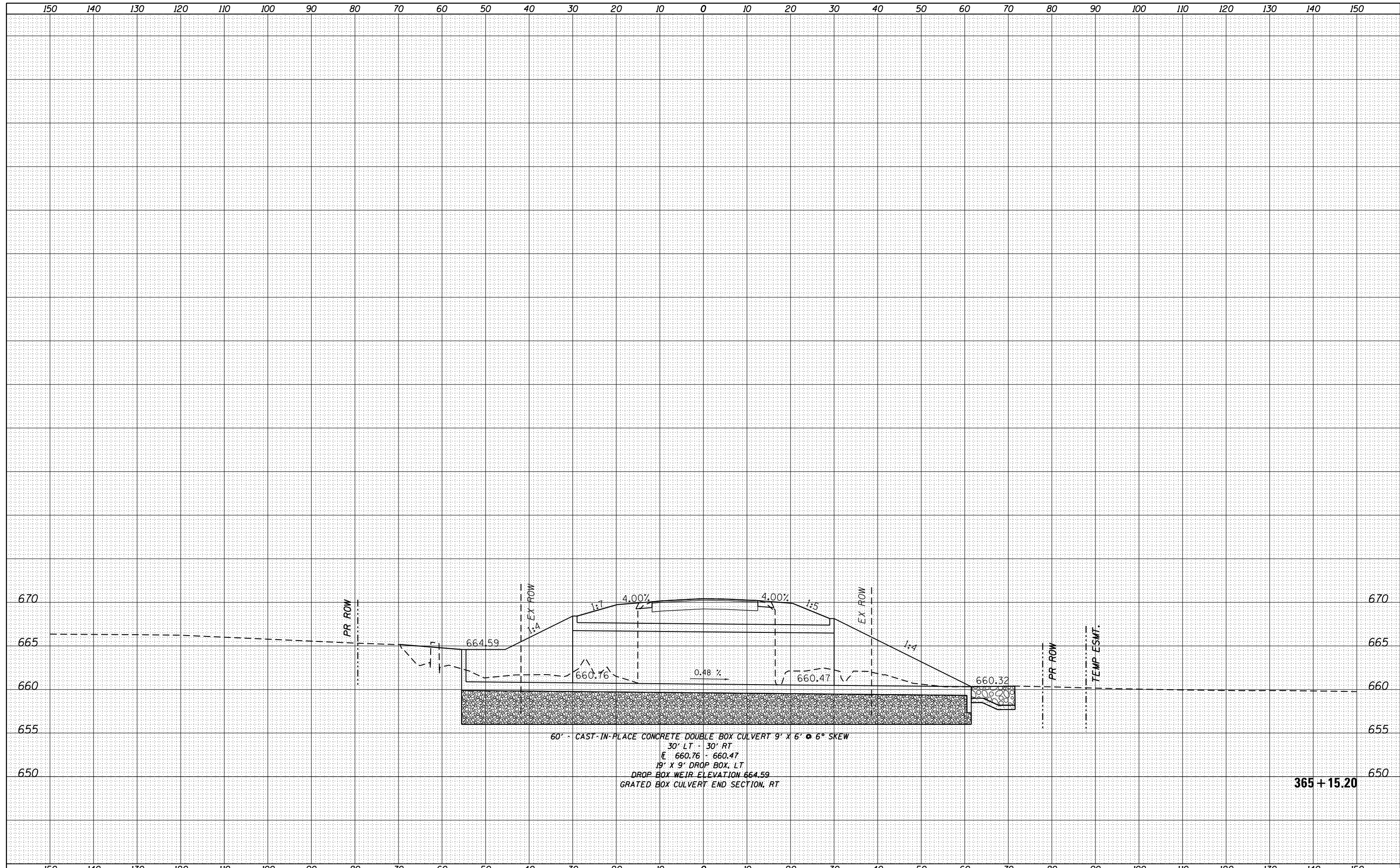
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NOTE BOOK	
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FILE NAME =	USER NAME = batesr1	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GARDEN PLAIN ROAD CROSS SECTIONS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	Plot Scale = 20.0000' / in.	CHECKED -	REVISIED -				196	(0-2MFT)	WHITESIDE	61	57
	PLOT DATE = Thu Jan 22 15:30:59 2015	DATE -	REVISIED -		SCALE: _____ SHEET ____ OF ____ SHEETS		STA. 364+75.00 TO STA. 365+00.00		CONTRACT NO. 64H60		
					ILLINOIS FED. AID PROJECT						

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



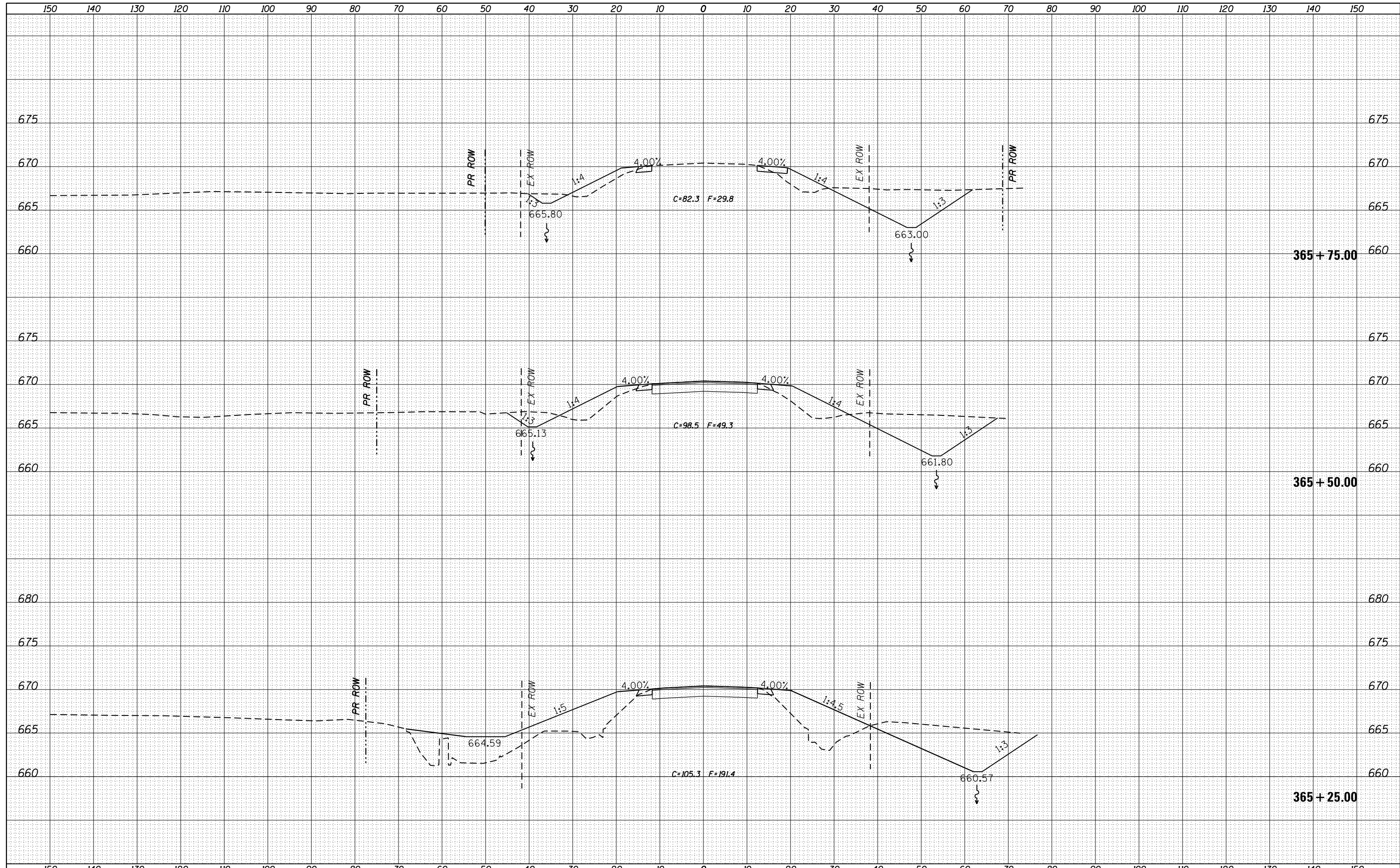
60' - CAST-IN-PLACE CONCRETE DOUBLE BOX CULVERT 9' X 6' @ 6° SKEW
 30' LT - 30' RT
 E 660.76 - 660.47
 19' X 9' DROP BOX, LT
 DROP BOX WEIR ELEVATION 664.59
 GRATED BOX CULVERT END SECTION, RT

365+15.20

FILE NAME =	USER NAME = batesr1	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GARDEN PLAIN ROAD CROSS SECTIONS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	ca:\pw_work\pwidot\batesr1\d0309241\02-shr-xssht.dgn	DRAWN -	REVISIED -		196	(0-2MFT)	WHITESIDE	61	58	CONTRACT NO. 64H60		
	PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -		SCALE: _____	SHEET _____	OF _____	SHEETS	STA. 365+15.20	TO STA. 365+15.20	ILLINOIS FED. AID PROJECT	
	PLOT DATE = Thu Jan 22 15:31:20 2015	DATE -	REVISIED -									

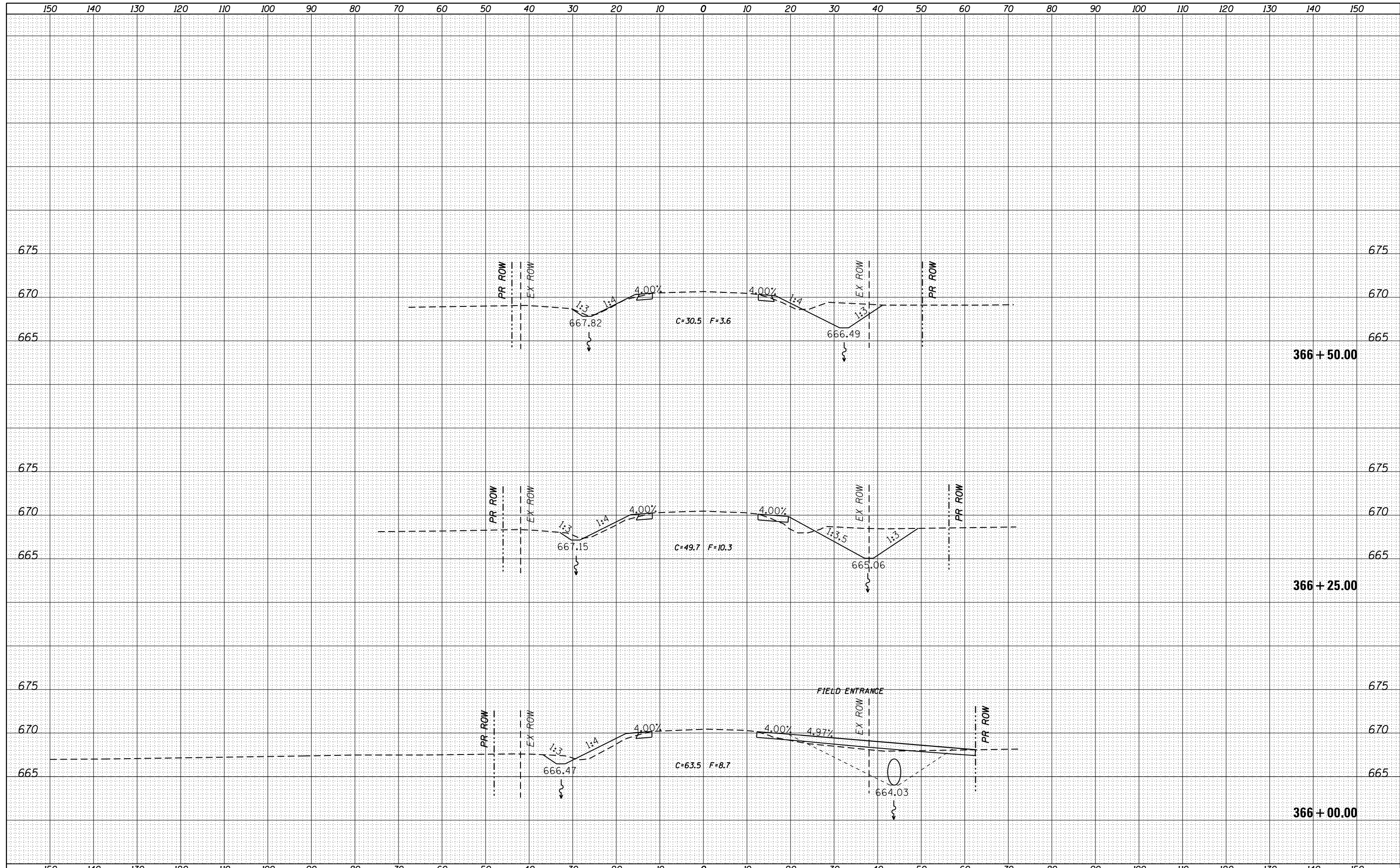
DATE	
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TEMPLATE	
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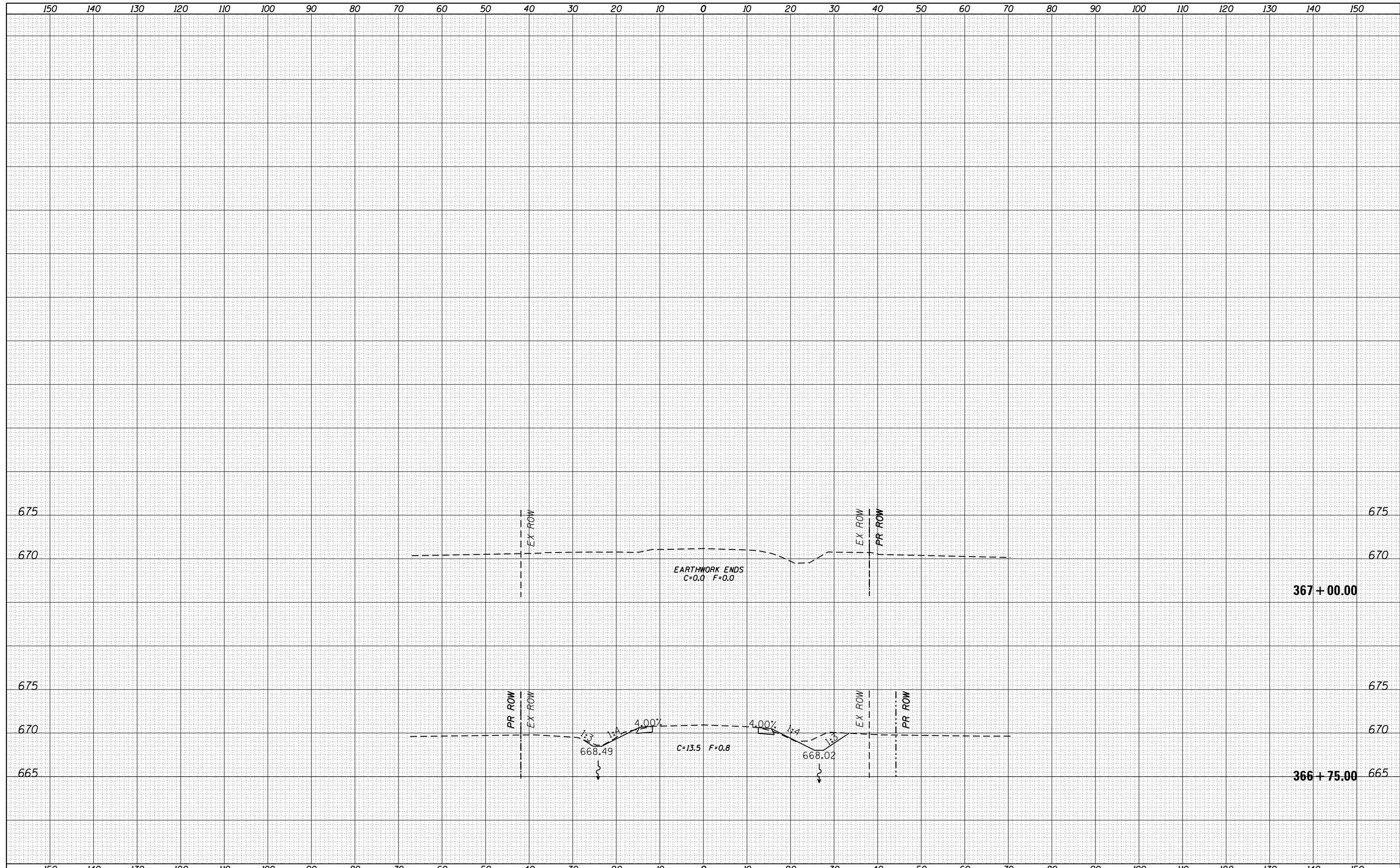
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BY	
FINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
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ORIGINAL SURVEY	
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DATE	
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FINAL SURVEY	
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NOTE BOOK	
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BY	
ORIGINAL SURVEY	
SURVEYED	
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NOTE BOOK	
AREAS CHECKED	
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FILE NAME =	USER NAME = batesr1	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GARDEN PLAIN ROAD CROSS SECTIONS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\pwidot\batesr1\d0309241\02-shr-xssht.dgn	DRAWN -	REVISIED -	196			(0-2MFT)	WHITESIDE	61	61	
Default	PLOT SCALE = 20.0000' / in.	CHECKED -	REVISIED -			CONTRACT NO. 64H60				
	PLOT DATE = Thu Jan 22 15:32:16 2015	DATE -	REVISIED -			SCALE: _____ SHEET ____ OF ____ SHEETS STA. 366+75.00 TO STA. 367+00.00				

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