11-04-2016 LETTING ITEM 006

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	1
	ILLINOIS	CONTRACT NO. 64G91		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.P. ROUTE 5 (US 20 BUS)
0.1 MILES EAST OF GREENFIELD DRIVE
SECTION 20T
PROJECT : ACNHPP-0005(056)
BOX CULVERT REPLACEMENT
STEPHENSON COUNTY

C-92-028-12

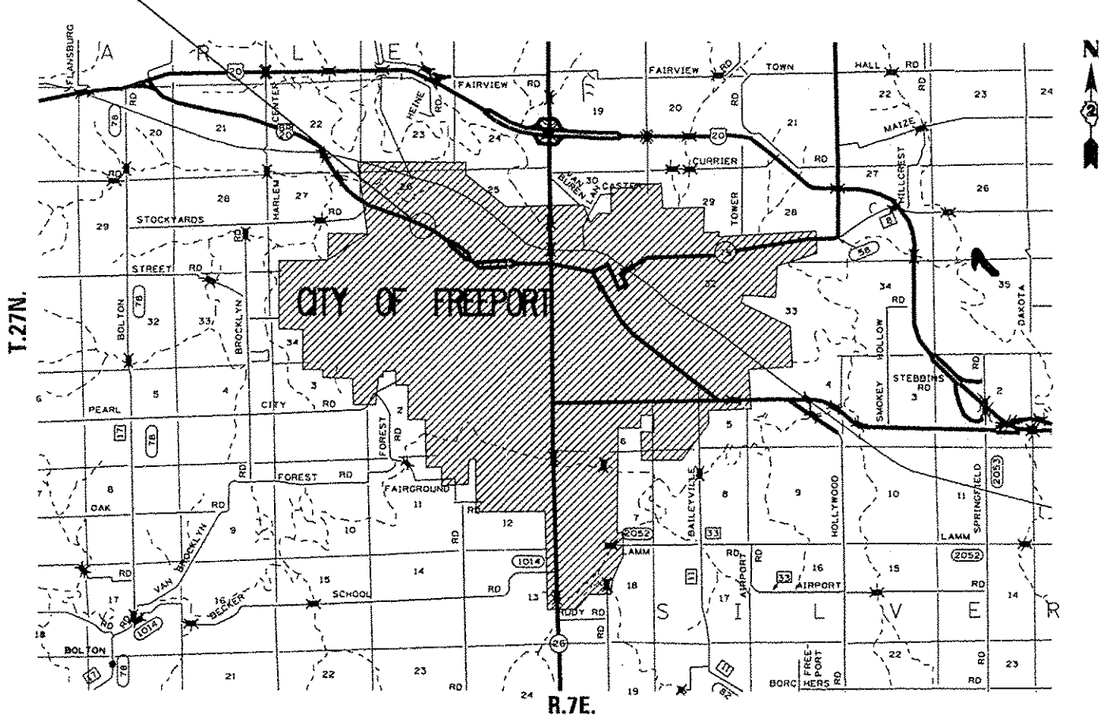
D-92-047-11

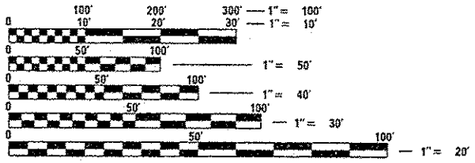
LOCATION OF SECTION INDICATED THUS: –

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

FREEPORT TOWNSHIP SECTION 26

EXISTING SN 089-1071	
PROPOSED SN 089-1148	
STA 171+21	
REMOVE EXISTING 6'x6' BOX CULVERT AND CONSTRUCT 84" PIPE CULVERT	
IMPROVEMENT BEGINS	STA 170+07
IMPROVEMENT ENDS	STA 173+00
PROJECT BEGINS	STA 170+58
PROJECT ENDS	STA 172+33





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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 7-27 2016
K. Marshall
REGIONAL ENGINEER

Sept 30 2016
Maureen M. Addis, PE for
acting ENGINEER OF DESIGN AND ENVIRONMENT

Sept 30 2016
DIRECTOR OF PROGRAM DEVELOPMENT

PROJECT ENGINEER: STEVE ROBERY
STUDIES AND PLANS SQUAD ENGINEER: TRACI DUDEN (815) 284-5932
EMAIL: Traci.Duden@illinois.gov

CONTRACT NO. 64G91

GROSS LENGTH OF SECTION = 175 FT. = 0.033 MILE
NET LENGTH OF SECTION = 175 FT. = 0.033 MILE

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

DISTRICT 2, DIXON

INDEX OF SHEETS & HIGHWAY STANDARDS

INDEX OF SHEETS

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-08	PAVEMENT JOINTS
420101-05	24' (7.2M) JOINTED PCC PAVEMENT
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
442101-07	CLASS B PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" THRU 84" DIAMETER
542401-02	METAL END SECTIONS FOR PIPE CULVERTS
542311-06	TRAVERSABLE PIPE GRATE
601101-02	CONCRETE HEADWALL FOR PIPE DRAIN
602401-03	MANHOLE, TYPE A
602701-02	MANHOLE STEPS
604036-03	GRATE, TYPE 8
635001-02	DELINEATORS
666001-01	RIGHT OF WAY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-05	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

Rev.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS & HIGHWAY STANDARDS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	2
		CONTRACT NO. 64G91		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

	CODE NUMBER	ITEM	UNITS	80% FED 20% STATE 0004 089-1148 TOTAL QUANTITY
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	87
	20200100	EARTH EXCAVATION	CU YD	350
*	21101615	TOPSOIL FURNISH & PLACE, 4"	SQ YD	183
*	25100630	EROSION CONTROL BLANKET	SQ YD	286
	28000305	TEMPORARY DITCH CHECKS	FOOT	267
	28000400	PERIMETER EROSION BARRIER	FOOT	101
	28000500	INLET & PIPE PROTECTION	EACH	2
	28100107	STONE RIPRAP, CLASS A4	SQ YD	150
	28200200	FILTER FABRIC	SQ YD	150
	35102000	AGGREGATE BASE COURSE TYPE B, 8"	SQ YD	171
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	375
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	27
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	44
	42100615	PAVEMENT REINFORCEMENT	SQ YD	516
	44002238	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 9 1/2"	SQ YD	516
	44004250	PAVED SHOULDER REMOVAL	SQ YD	226

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	3
		CONTRACT NO. 64G91		
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNITS	80% FED 20% STATE 0004 089-1148 TOTAL QUANTITY
44200964	CLASS B PATCHES, TYPE IV, 9 INCH	SQ YD	516
44201299	DOWEL BARS 1 1/2"	EACH	260
44213100	PAVEMENT FABRIC	SQ YD	516
44213200	SAW CUTS	FOOT	281
44213204	TIE BARS 3/4"	EACH	89
48203023	HOT MIX ASPHALT SHOULDERS, 6 1/2"	SQ. YD	316
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
51500100	NAME PLATES	EACH	1
542A1129	PIPE CULVERTS, CLASS A, TYPE 2, 84"	FOOT	123
542D1069	PIPE CULVERTS, CLASS D, TYPE 2, 24"	FOOT	90
54215559	METAL END SECTIONS 24"	EACH	1
54215595	METAL END SECTIONS 60"	EACH	1
54260311	TRAVERSABLE PIPE GRATES	FOOT	412.5
54261484	CONCRETE END SECTION, STANDARD 542001, 84", 1:4	EACH	2
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	2
60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	62
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	4
		CONTRACT NO. 64G91		
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE NUMBER	ITEM	UNITS	80% FED 20% STATE 0004 089-1148 TOTAL QUANTITY
	63500105	DELINEATORS	EACH	4
	66600105	FURNISHING & ERECTING ROW MARKERS	EACH	9
	66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	1
	67100100	MOBILIZATION	L. SUM	1
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L. SUM	1
•	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	880
•	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	20
•	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	8
	Z0013798	CONSTRUCTION LAYOUT	L. SUM	1
•	Z0025505	PROPERTY MARKERS	EACH	2
*	Z0054400	ROCK FILL	CU YD	160
•	A2000114	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	6
•	A2002914	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	6
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L. SUM	1

• SPECIALTY ITEM

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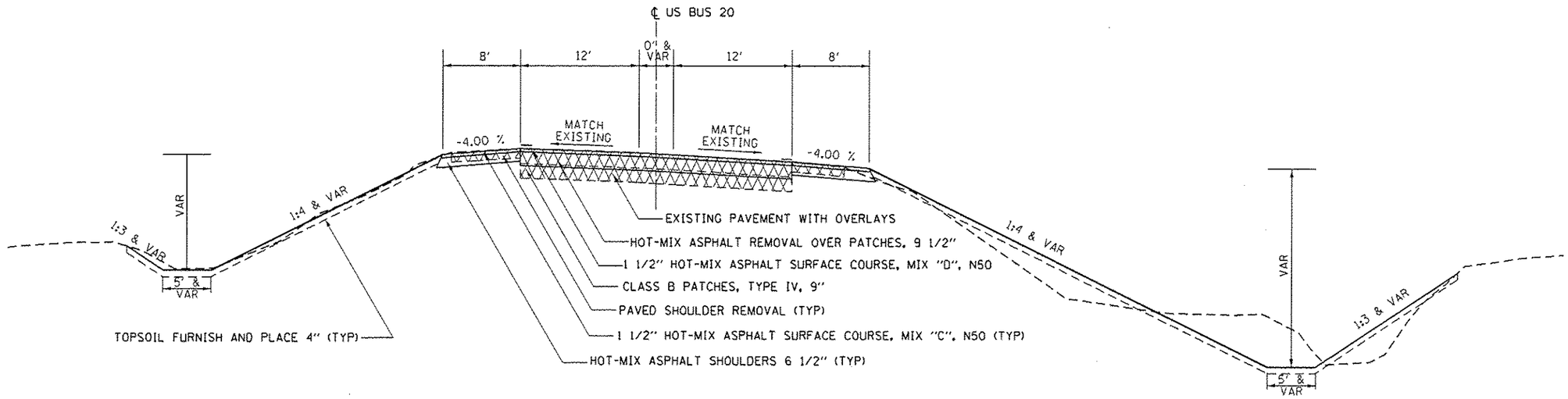
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	5
		CONTRACT NO. 64G91		
		ILLINOIS FED. AID PROJECT		

TYPICAL SECTIONS



TYPICAL SECTION – US BUS 20

STA 170+58 - STA 172+33

HOT-MIX ASPHALT APPLICATION RATE: 112 LBS/SY/IN

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	6
		CONTRACT NO. 64C91		
		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

The removal of Bituminous Surfacing less than 6 inch thickness not on a rigid type base removed in conjunction with the base shall be removed as EARTH EXCAVATION.

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. The cost of this work shall be included in the unit prices bid and no additional compensation will be allowed.

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

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 1A. 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. This work will be included in the contract unit price per Cubic Yard for EARTH EXCAVATION.

Fertilizer shall be applied to all disturbed areas and incorporated into the seedbed prior to seeding or placement of sod at the rate specified in Sections 250 and 252 of the Standard Specifications. This work shall be included in the cost of EARTH EXCAVATION.

Mulch Method II shall be applied over all seeded areas. This shall be included in the cost of the EARTH EXCAVATION.

Placement and compaction of the backfill for proposed across road culverts and existing across road culverts that are removed shall conform to Article 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 for trench backfill 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 unit price item of the work for which it is required.

The Contractor shall use the excavation material from the culvert excavation for the remaining balance of fill for the ditches.

Closed expansion joints on jointed pavements shall be re-established during the patching operations. Class B Patches - when the pavement requires patching at the location of the expansion joint, a new joint should be established using a dowelled expansion patch as shown on Highway Standard 442101. When the joint is closed, but does not require patching, an expansion joint may be formed by sawing the pavement and filling the saw cut with a preformed expansion joint filler meeting the requirements of Section 1051 of the Standard Specifications as shown on Standard 420001.

All mandatory joint sealing for Class A, Class B, and Class B (Hinge Jointed) patches as shown on the plans will not be measured for payment. Optional sawing of the joint for the sealant reservoir will not be measured for payment.

For all concrete patching that will not be resurfaced, the concrete shall be struck off flush with the existing pavement surface at each end of the patch.

The Engineer reserves the right to check all patches for smoothness by the use of a 10' rolling straight edge set to a 3/16" tolerance in the wheel paths. Any patch areas higher than 3/16" must be ground smooth with an approved grinding device consisting of multiple saws. The use of bushhammer or other impact devices will not be permitted. Any patch with depressions greater than 3/16" shall be repaired in a manner approved by the Engineer.

The mandatory saw cuts for pavement patching are:

Class A Patch: Cut two transverse saw cuts at each end of the patch; one full depth and one partial depth. The longitudinal edges of the patch shall be cut full depth. When the patch is adjacent to a pcc shoulder, two saw cuts along the shoulder will be required.

Class B Patch: Cut two transverse saw cuts outlining the patch and one transverse pressure relief saw cut. The longitudinal edges of the patch shall be cut full depth. When the patch is adjacent to a pcc shoulder, two saw cuts along the shoulder will be required.

The mandatory saw cuts will be paid for at the contract unit price per Foot for SAW CUTS.

The following Mixture Requirements are applicable for this project:

Mixture Uses(s):	Surface	Binder	Shoulder (Top)	Shoulder (Lower)
PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22
Design Air Voids	4.0 @ N50	4.0 @ N50	3.0 @ N50	2.0 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5	IL 19.0	IL 9.5	IL 19.0
Friction Aggregate	D	N/A	C	N/A
20 Year ESAL	0.6	0.6	N/A	N/A
Quality Management Program to be Used	QC/QA	QC/QA	QC/QA	QC/QA
Sublot Tonnage	N/A	N/A	N/A	N/A

The area to be tacked or primed shall be limited to that which can be covered with HMA on the next day's production, 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 089-1148.

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.

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

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

The Contractor shall straighten or cut off the ends of existing entrance culverts that will have new metal end sections installed. The cost of this will be included in the contract unit price Each for END SECTIONS of the size specified.

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

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

GENERAL NOTES

submitted to the Department. No additional compensation will be allowed for this work, but shall be considered included in the cost for CONSTRUCTION LAYOUT.

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

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

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

Permanent Survey Markers, Type II shall be cast-in-place as shown on District Standard 66.2, or another option 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 locating and protecting utility property during construction operations as outlined in Article 107.39 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

Commonwealth Edison, 815-490-2869
NICOR Gas, 630-983-8676
City of Freeport, 818-235-8202
Frontier, 815-895-1515
Comcast Cable, 815-395-8977

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.

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.

It shall be the Contractor's responsibility to contact the municipality to determine approved methods of utility structure adjustment. Utility structures may include, but are not limited to, manholes, water valves, handholes, etc. All materials and work necessary to complete adjustments per municipality requirements shall be considered included in the cost of the associated adjustment pay item.

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 PIPE CULVERTS.

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.

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.

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		DRAWN -	REVISED -			FAP 5 (US BUS 20)	- 20T	Stephenson	36	8
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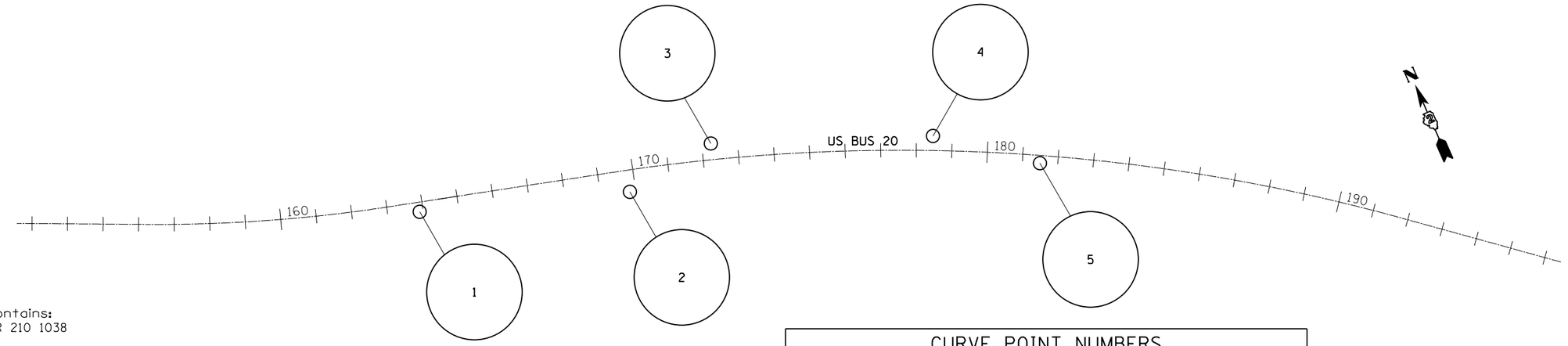
HORIZONTAL & VERTICAL CONTROL



Chain BUSUS20 contains:
1034 CUR 200 CUR 210 1038

Beginning chain BUSUS20 description
==========

Point 1034 N 2,055,948.2034 E 2,431,397.0161 Sta 152+57.2412

Course from 1034 to PC 200 S 65° 42′ 24.3938″ E Dist 362.9555′

Curve Data
•----------•

Curve 200
P.I. Station 159+64.8568 N 2,055,657.0857 E 2,432,041.9737
Delta = 9° 10′ 15.9482″ (LT)
Degree = 1° 19′ 59.8922″
Tangent = 344.6600′
Length = 687.8477′
Radius = 4,297.2800′
External = 13.7994′
Long Chord = 687.1136′
Mid. Ord. = 13.7553′
P.C. Station 156+20.1967 N 2,055,798.8811 E 2,431,727.8326
P.T. Station 163+08.0444 N 2,055,567.1717 E 2,432,374.6988
C.C. N 2,059,715.6453 E 2,433,495.7618

Course from PT 200 to PC 210 S 74° 52′ 40.3420″ E Dist 639.0210′

Curve Data
•----------•

Curve 210
P.I. Station 180+82.1353 N 2,055,104.3516 E 2,434,087.3564
Delta = 24° 09′ 36.1513″ (RT)
Degree = 1° 04′ 49.1104″
Tangent = 1,135.0698′
Length = 2,236.4022′
Radius = 5,303.6501′
External = 120.1021′
Long Chord = 2,219.8703′
Mid. Ord. = 117.4426′
P.C. Station 169+47.0654 N 2,055,400.4656 E 2,432,991.5918
P.T. Station 191+83.4677 N 2,054,385.6935 E 2,434,965.9428
C.C. N 2,050,280.4705 E 2,431,607.9896

Course from PT 210 to 1038 S 50° 43′ 04.1907″ E Dist 464.4618′

Point 1038 N 2,054,091.6241 E 2,435,325.4535 Sta 196+47.9295

==========
Ending chain BUSUS20 description

CURVE POINT NUMBERS

CHAIN	CURVE	PI	CC	PC	PT
BUSUS20	200	200	201	202	203
BUSUS20	210	210	211	212	213

BENCH MARKS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
401	2055590.7340	2432464.5249	792.7064	BUSUS20	163+88.6131	46.18′ LT	POWER POLE, RAIL ROAD SPIKE
402	2055289.6203	2432993.0330	776.9563	BUSUS20	169+77.9953	106.5426′ RT	MISC. CONCRETE SLAB, CUT SQUARE
405	2054999.0423	2434128.6939	826.3616	BUSUS20	181+49.4456	46.0106′ LT	POWER POLE, RAIL ROAD SPIKE

SURVEY WORK POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	2055244.4727	2432866.7580	774.4847	BUSUS20	168+67.2494	183.1575′ RT	TOPO SURVEY POINT, NAIL
101	2055399.6760	2433164.8445	773.4798	BUSUS20	171+13.0791	47.0566′ LT	TOPO SURVEY POINT, NAIL
102	2055413.2779	2433247.3235	769.5380	BUSUS20	171+86.8577	84.5896′ LT	TOPO SURVEY POINT, PIN
103	2055259.8284	2433371.9286	786.9535	BUSUS20	173+52.9290	21.0858′ RT	TOPO SURVEY POINT, NAIL
104	2055445.6044	2433230.0859	770.5798	BUSUS20	171+61.1365	110.2029′ LT	TOPO SURVEY POINT, NAIL
105	2055441.6666	2433326.1383	767.3857	BUSUS20	172+51.6394	136.0171′ LT	TOPO SURVEY POINT, NAIL
106	2055506.4725	2433424.7389	765.8927	BUSUS20	173+21.6985	229.1317′ LT	TOPO SURVEY POINT, NAIL
107	2055530.4107	2433454.5542	765.6398	BUSUS20	173+41.0461	261.5698′ LT	TOPO SURVEY POINT, NAIL
108	2055662.8420	2433513.3657	764.6803	BUSUS20	173+51.7640	406.0242′ LT	TOPO SURVEY POINT, NAIL
109	2055743.4455	2433628.5503	764.2065	BUSUS20	174+26.1434	521.0182′ LT	TOPO SURVEY POINT, NAIL
110	2055362.5606	2432940.8665	774.5500	BUSUS20	169+07.9852	49.8255′ RT	TOPO SURVEY POINT, DISK

APPARENT PROPERTY CORNERS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
700	2055532.1033	2432712.9188	786.9913	BUSUS20	166+43.7011	54.3799′ LT	PROPERTY CORNER, PIN
701	2055498.3420	2432846.0856	779.0615	BUSUS20	167+81.0641	56.5279′ LT	PROPERTY CORNER, PIN

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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HORIZONTAL & VERTICAL CONTROL

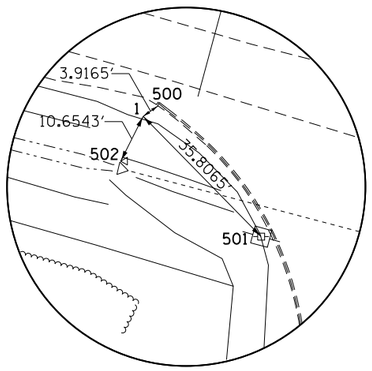
SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	9
		CONTRACT NO. 64G91		
	ILLINOIS	FED. AID PROJECT		

HORIZONTAL & VERTICAL CONTROL

REFERENCE TIES						
POINT	NORTH	EAST	CHAIN	STATION	OFFSET	DESCRIPTION
500	2055521.9303	2432449.7919	BUSUS20	163+92.3396	24.0847′ RT	BACK OF CURB, END
501	2055494.1155	2432471.6678	BUSUS20	164+20.7143	45.2294′ RT	POWER POLE WITH LIGHT, SHINER
502	2055510.1446	2432441.8256	BUSUS20	163+87.7238	37.5405′ RT	FLARED END SECTION, CORNER
503	2055349.1232	2432986.6767	BUSUS20	169+55.7983	50.8396′ RT	POWER POLE, SHINER
504	2055311.9587	2432999.3712	BUSUS20	169+78.1535	83.3229′ RT	COMMERCIAL BUILDING, CORNER
505	2055321.2819	2433030.7273	BUSUS20	170+06.2395	65.9061′ RT	PIPE CULVERT, TOP
506	2055123.9775	2433886.0332	BUSUS20	178+78.9153	48.8299′ LT	BACK OF CURB, END
507	2055141.0430	2433849.7742	BUSUS20	178+39.2074	48.9906′ LT	BACK OF CURB, END
508	2055152.2354	2433826.3198	BUSUS20	178+13.4613	49.394′ LT	TELEPHONE SPLICE BOX, CORNER
509	2054896.0847	2434057.4262	BUSUS20	181+34.8826	78.3622′ RT	TELEPHONE POLE, SHINER
510	2054877.6368	2434078.9352	BUSUS20	181+62.9774	84.5017′ RT	TREE DECIDUOUS
511	2054998.1866	2434128.9969	BUSUS20	181+50.1103	45.3987′ LT	POWER POLE, SHINER
512	2055382.3131	2433265.5294	BUSUS20	172+13.3186	60.6985′ LT	HEADWALL, CORNER
513	2055388.2492	2433241.7951	BUSUS20	171+89.1803	59.0659′ LT	HEADWALL, CORNER
514	2055340.5096	2433288.9058	BUSUS20	172+48.2819	28.2796′ LT	STREET - SIGN, SHINER

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	2055519.6740	2432446.5906	790.9237	BUSUS20	163+89.8378	27.098′ RT	GPS CONTROL POINT, PIN
2	2055349.3564	2433031.6245	775.5637	BUSUS20	169+99.4275	38.6392′ RT	GPS CONTROL POINT, PIN
3	2055356.7822	2433256.9123	778.1004	BUSUS20	172+13.0140	33.7543′ LT	GPS CONTROL POINT, PIN
4	2055135.9709	2433831.7984	813.1519	BUSUS20	178+25.1065	36.8751′ LT	GPS CONTROL POINT, PIN
5	2054940.8572	2434097.5757	829.2394	BUSUS20	181+49.4144	19.9731′ RT	GPS CONTROL POINT, PIN



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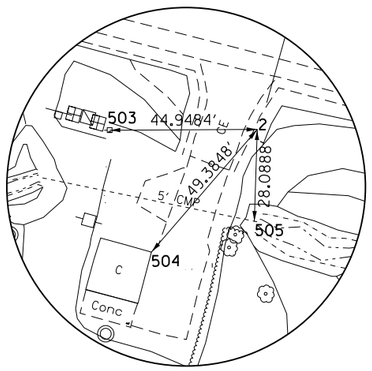

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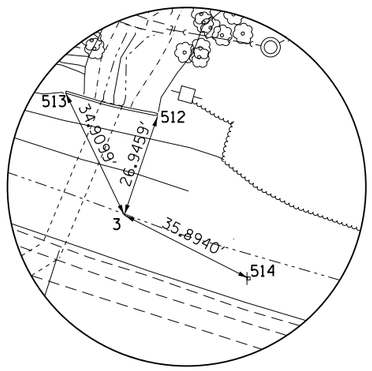

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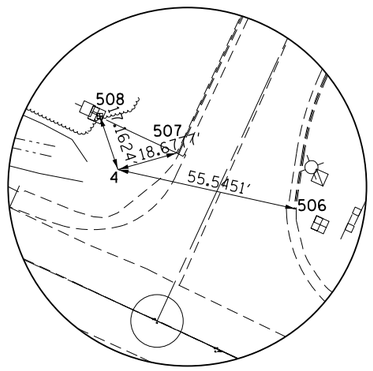

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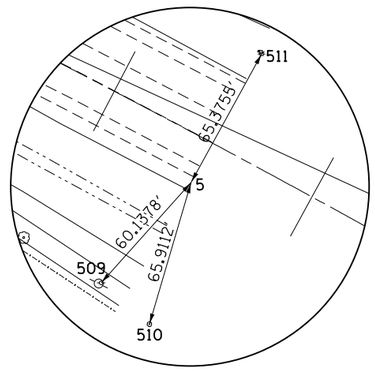

HORIZONTAL CONTROL POINT NO. 5

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HORIZONTAL AND VERTICAL CONTROL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	10
		CONTRACT NO. 64G91		
	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

UNIT	LOCATION STATION		
6	170+43	79'	RT
6	170+84	82'	RT
6	170+90	85'	RT
7	171+22	80'	RT
7	171+45	73'	RT
6.5	171+82	90'	LT
10.5	171+83	80'	LT
7.5	171+83	91'	LT
10.5	171+85	79'	LT
6	172+21	99'	LT
8	172+24	91'	LT
6	172+28	87'	LT
87	TOTAL		

20200100 EARTH EXCAVATION

CU YD	LOCATION STATION	TO STATION	
350	170+58.0 -	172+33	EARTH EXCAVATION FROM CULVERT EXCAVATION SHALL BE USED FOR THE BALANCE OF FILL FOR THE DITCHES
350	TOTAL		

21101615 TOP SOIL FURNISH & PLACE, 4"

SY YD	LOCATION STATION	TO STATION
183	170+58.0 -	172+33
183	TOTAL	

25100630 EROSION CONTROL BLANKET

SQ YD	LOCATION STATION	TO STATION			
125	170+13 -	171+27	RT		
157	171+25 -	172+53	LT		
2	172+28.77		RT	34'	OFFSET
2	173+28.78		LT	32'	OFFSET
286	TOTAL				

28000305 TEMPORARY DITCH CHECKS

FOOT	LOCATION STATION	
30	170+20	RT
17	170+40	RT
20	170+80	RT
20	171+00	RT
22	171+20	RT
18	171+20	LT
16	171+40	LT
18	171+60	LT
19	171+80	LT
26	172+10	LT
20	172+20	LT
21	172+30	LT
20	172+40	LT
267	TOTAL	

28000400 PERIMETER EROSION BARRIER

FOOT	LOCATION STATION	TO OFFSET		STATION	OFFSET
51	172+31	82'	-	172 51	34'
50	172+51	34'	-	173+01	35'
101	TOTAL				

28000500 INLET AND PIPE PROTECTION

EACH	LOCATION STATION	OFFSET	
1	170+53	66'	RT
1	172+24	53'	RT
2	TOTAL		

28100107 STONE RIPRAP, CLASS A4

SQ YD	LOCATION STATION	OFFSET		
77	172+10.0	87'	LT	
73	172+17.0 -	172+49.5	38'	RT
150	TOTAL			

28200200 FILTER FABRIC

SQ YD	LOCATION STATION	OFFSET		
77	172+10.0	87'	LT	
73	172+17.0 -	172+49.5	38'	RT
150	TOTAL			

35102000 AGGREGATE BASE COURSE TYPE B, 8"

SQ YD	LOCATION STATION
171	171+90.0
171	TOTAL

40600290 BITUMINUS MATERIALS (TACK COAT)

POUND	LOCATION STATION	TO STATION	
375	170+58 -	172+33	PATCH AND SHOULDERS
375	TOTAL		

40603310 HOT-MIX ASPHALT SURFACE COURSE MIX "C" N50

TON	LOCATION STATION	TO STATION	
14	170+58 -	172+33	LT
13	170+58 -	172+33	RT
27	TOTAL		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	11
		CONTRACT NO. 64G91		
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

40603335 HOT-MIX ASPHALT SURFACE COURSE MIX "D" N50

TON	LOCATION STATION	TO STATION
44	170+58	- 172+33
44	TOTAL	

42100615 PAVEMENT REINFORCEMENT

SQ YD	LOCATION STATION	STATION
516	170+58.0	- 172 +33
516	TOTAL	

44002238 HOT-MIX ASPHALT REMOVAL OVER PATCHES, 9 1/2"

SQ YD	LOCATION STATION	TO STATION
516	170+58	- 172 +33
516	TOTAL	

44004250 PAVED SHOULDER REMOVAL

SQ YD	LOCATION STATION	TO STATION	
119	170+58	- 172+33	LT
107	170+58	- 172+33	RT
226	TOTAL		

44200964 CLASS B PATCHES, TYPE IV, 9 INCH

SQ YD	LOCATION STATION	TO STATION
516	170+58	- 172 +33
516	TOTAL	

44201299 DOWEL BARS 1 1/2"

EACH	LOCATION STATION
20	170+58
20	170+73
20	170+88
20	170+03
20	171+18
20	171+33
20	171+48
20	171+63
20	171+78
20	171+93
20	172+08
20	172+23
20	172+33
260	TOTAL

44213100 PAVEMENT FABRIC

SQ YD	LOCATION STATION	TO STATION
516	170+58	- 172 +33
516	TOTAL	

44213200 SAW CUTS

FOOT	LOCATION STATION	TO STATION	
53	170+58	172+33	(HMA)
228	170+58	172+33	(PCC)
281	TOTAL		

44213204 TIE BARS 3/4"

EACH	LOCATION STATION	TO STATION
89	170+58	- 172 +33
89	TOTAL	

48203023 HOT-MIX ASPHALT SHOULDERS, 6 1/2"

SQ YD	LOCATION STATION	TO STATION	
163	170+58	- 172+33	LT
153	170+58	- 172+33	RT
316	TOTAL		

50100300 REMOVAL OF EXISTING STRUCTURES NO. 1

EACH	LOCATION STATION	
1	171+81.0	(Single Cell 6'x6')
1	TOTAL	

542A1129 PIPE CULVERTS, CLASS A, TYPE 2, 84"

FOOT	LOCATION STATION	
123	171+21.0	(SKEW 45° LEFT FORWARD)
123	TOTAL	

542D1069 PIPE CULVERTS, CLASS D, TYPE 2, 24"

FOOT	LOCATION STATION	TO STATION
90	171+88.0	172+24
90	TOTAL	

54215559 METAL END SECTIONS 24"

EACH	LOCATION STATION	OFFSET
1	170+55	69' RT
1	TOTAL	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20I	STEPHENSON	36	12
		CONTRACT NO. 64G91		
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

54215595 METAL END SECTIONS 60"

EACH	LOCATION STATION	OFFSET
1	170+10	65' RT
1 TOTAL		

54260311 TRAVERSABLE PIPE GRATES

FOOT	LOCATION STATION	OFFSET
206.25	170+71	49' RT
206.25	171+83	64' LT
412.5 TOTAL		

54261484 CONCRETE END SECTION, STANDARD 542001, 84", 1:4

EACH	LOCATION STATION	OFFSET
1	170+71	49' RT
1	171+83	64' LT
2 TOTAL		

60100060 CONCRETE HEADWALLS FOR PIPE DRAINS

EACH	LOCATION STATION	OFFSET
1	172+28.77	34' RT
1	172+28.77	32' LT
2 TOTAL		

60108204 PIPE UNDERDRAINS, TYPE 2, 4"

FOOT	LOCATION STATION
62	172+28.77
62 TOTAL	

60221900 MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE

EACH	LOCATION STATION	OFFSET
1	172+25	53' RT
1 TOTAL		

63500105 DELINEATORS

EACH	LOCATION STATION	
1	170+71	RT
1	171+83	LT
1	172+28.77	RT
1	172+28.77	LT
4 TOTAL		

66600105 FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

EACH	LOCATION STATION	OFFSET
1	170+02	80' RT
1	171+00	100' RT
1	171+51	80' RT
1	171+51	68' LT
1	171+90	100' LT
1	172+25	80' RT
1	172+35	100' LT
1	172+49	79' LT
1	172+97	66' RT
9 TOTAL		

78009004 MODIFIED URETHANE PAVEMENT MARKING - LINE 4"

FOOT	LOCATION STATION	TO STATION		
175	170+58	172+33	RT	(WHITE EDGE)
175	170+58	172+33	LT	(WHITE EDGE)
360	170+58	171+48		(4 LINES YELLOW-MEDIAN)
170	171+48	172+33		(DOUBLE YELLOW-CENTERLINE)
880 TOTAL				

78009012 MODIFIED URETHANE PAVEMENT MARKING - LINE 12"

FOOT	LOCATION STATION	
7	170+58	DIAGONAL (YELLOW)
6	170+88	DIAGONAL (YELLOW)
4	171+18	DIAGONAL (YELLOW)
3	171+48	DIAGONAL (YELLOW)
20 TOTAL		

78100100 RAISED REFLECTIVE PAVEMENT MARKER

EACH	LOCATION STATION	TO STATION	
8	170+58	- 172+33	AMBER BI-DIRECTIONAL
8 TOTAL			

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

EACH	LOCATION STATION	TO STATION
8	170+583	- 172+33
8 TOTAL		

Z0025505 PROPERTY MARKERS

EACH	LOCATION STATION	
1	172+14	80' RT
1	172+27.72	99.97' LT
2 TOTAL		

Z0054400 ROCK FILL

CU YD	LOCATION STATION	
160	171+21	(Depth = 24") (SKEW 45°)
160 TOTAL		

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		DATE -	REVISED -			ILLINOIS FED. AID PROJECT	SHEET NO. 13
						CONTRACT NO. 64G91	

STEPHEN S & ELIZABETH J SCHMELZLE

GARY N & PATRICIA A YOCHERER

STA 171+21 - 72.00' LT TO 51.00' RT
S.N. 089-1148
123' PIPE CULVERTS, CLASS A, TYPE 2 84"
2 EACH CONCRETE END SECTION, STANDARD 542001, 84", 1:4
2 EACH TRAVERSABLE PIPE GRATE
U/S FL = 766.65
D/S FL = 766.04
SKEWED 45° LEFT FORWARD

JAMES A & LOUISE D WADE

EXISTING RIPRAP TO BE LEFT IN PLACE

TEMP. EASE

THE DEER RIDGE CONDOMINIUM ASSOCIATION

STA 171+81
REMOVAL OF EXISTING STRUCTURES NO. 1

STA 170+58 - STA 172+33
HOT-MIX ASPHALT SHOULDERS 6 1/2"
1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

STA 172+28.77 - 32.00' LT TO 30.00' RT
62' PIPE UNDERDRAINS, TYPE 2 4" (DISTRICT STANDARD 37.2)
2 EACH CONCRETE HEADWALLS FOR PIPE DRAINS

EXISTING R.O.W.

STA 170+58 - STA 172+33
CLASS B PATCHES, TYPE IV, 9"
1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50
HOT-MIX ASHALT REMOVAL OVER PATCHES, 9 1/2"

PROPOSED R.O.W.

CONSTRUCTION LIMITS

15" CMP

1' STUB
25' TAPER
8'
12'
450' VAR
12'
8'

PROJECT ENDS
STA 172+33

IMPROVEMENT ENDS
STA 173+00

IMPROVEMENT BEGINS
STA 170+07

PROJECT BEGINS
STA 170+58

1 EACH METAL END SECTIONS 60"

CONCRETE SLAB

24' FE

Conc

24" CMP

EXISTING RIPRAP TO BE LEFT IN PLACE

EXISTING R.O.W.

TEMP EASE

5' CMP

CONSTRUCTION LIMITS

PETER F HOLESINGER

5'x3' Box

C

Conc

STA 171+34.26
68.59' RT

PROPOSED R.O.W.

TEMPORARY EASEMENT

90" PIPE CULVERTS, CLASS D, TYPE 2 24"
1 EACH METAL END SECTIONS 24"
U/S FL = 768.79
D/S FL = 768.25

1 EACH MANHOLES, TYPE A, 4' DIA, TYPE 8 GRADE
STA 172+25.14
OFFSET 52.69' RT
LID ELEVATION = 773.50
INVERT ELEVATION = 768.79

= CLASS B PATCHES, TYPE IV, 9" & PAVED SHOULDER REMOVAL

= TREE REMOVAL

CITY OF FREEPORT

MARK A & WENDY S SCHARDT

RICHARD BURKINSHAW

DONALD G & JENNIFER J GENNUSA

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

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

STA 170+58 - STA 172+33

EARTH EX =	346.0	CU. YDS.
EMBANKMENT =	311.8	CU. YDS.
CULVERT EX =	2215.9	CU. YDS.
TOTAL WASTE =	1564.0	CU. YDS.

NOTE: CULVERT EX NOT PAID FOR AS EARTH EX TOTAL WASTE INCLUDES WASTE FROM CULVERT EX

STA 170+58 - STA 172+33
CLASS B PATCHES, TYPE IV, 9"
1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50
HOT-MIX ASHALT REMOVAL OVER PATCHES, 9 1/2"

SPECIAL DITCH RT STA 170+58.00 - RT STA 171+25.00 @ 1.24 %
FL ELEV = 766.83 - 768.00

1:1.5

1:1.5

PIPE CULVERTS, CLASS A, TYPE 2 84"

24" ROCK FILL

EXISTING 6'X6' BOX

WATERWAY INFORMATION TABLE

Drainage Area = 212 Acres
Existing Low Grade Elevation 775.88 ft.
Proposed Low Grade Elevation 775.88 ft.

Flood	Frequency Year	Discharge cfs	Headwater Elev. (ft) Existing	Proposed
10-Year	10	113	770.64	770.67
Design	50	226	773.37	773.38
Base		365	775.24	775.12
OVT (Existing)	120	394	775.88	–
OVT (Proposed)	125	403	–	775.88

10-Year velocity through Existing Culvert = 10.8 fps
10-Year velocity through Proposed Culvert = 9.8 fps

785 780 775 770 765 760 755

778.89 778.17 777.45 777.43 777.83 778.57 779.71 781.30 783.27 785.54 788.15 790.91

168+50 169+00 169+50 170+00 170+50 171+00 171+50 172+00 172+50 173+00 173+50 174+00

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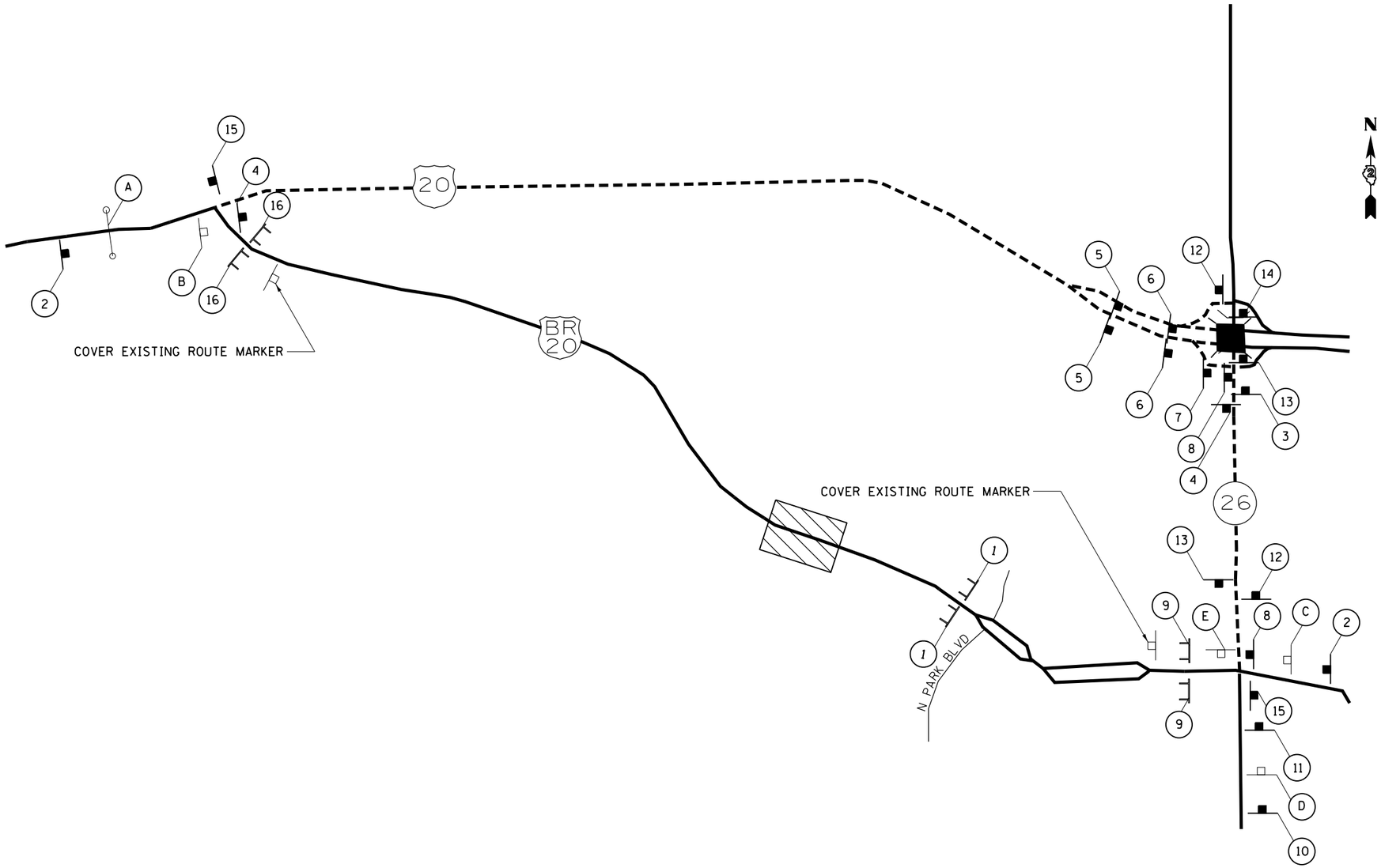
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

US BUS 20

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	14
		CONTRACT NO. 64G91		
	ILLINOIS FED. AID PROJECT			

DETOUR PLAN



LEGEND

= CLOSURE

= DETOUR ROUTE

= TEMPORARY SIGN

= TYPE III BARRICADE

NOTE: ROAD CLOSURE WILL FOLLOW DISTRICT STANDARD 40.1

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	15
		CONTRACT NO. 64G91		
	ILLINOIS	FED. AID PROJECT		

DETOUR PLAN

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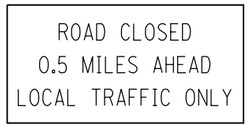

R11-3a (60X30)

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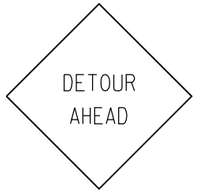

W20-2(0)-48

3

M4-8(0)-2412
M4-3-2412
M1-4-24
M6-3(0)-2115

4

M4-8(0)-2412
M4-3-2412
M1-4-24

5

M4-8(0)-2412
M4-3-2412
M1-4-24
M5-2R(0)-2115

6

M4-8(0)-2412
M4-3-2412
M1-4-24
M6-2R(0)-2115

7

M4-8(0)-2412
M4-3-2412
M1-4-24
M5-1R(0)-2115

8

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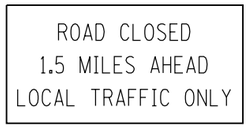
M4-3-2412
M1-4-24
M6-1R(0)-2115

9



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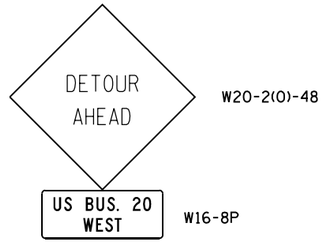

W20-2(0)-48
W16-8P

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M3-4-2412
M4-3-2412
M1-4-24
M6-3(0)-2115

12

M4-8(0)-2412
M3-4-2412
M4-3-2412
M1-4-24

13

M4-8(0)-2412
M4-3-2412
M1-4-24
M5-1L(0)-2115

14

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M6-1L(0)-2115

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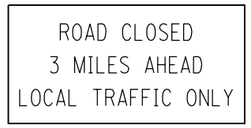
M4-8a(0)-2418

16



R11-3a (60X30)

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Default	PLOT DATE = 7/27/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

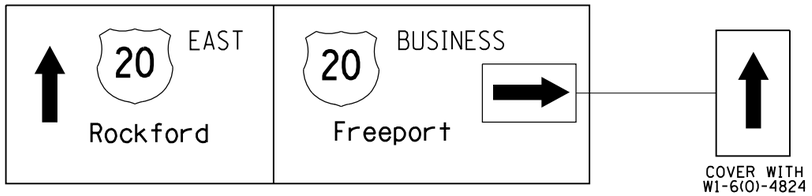
DETOUR PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	16
		CONTRACT NO. 64G91		
	ILLINOIS FED. AID PROJECT			

DETOUR PLAN

A



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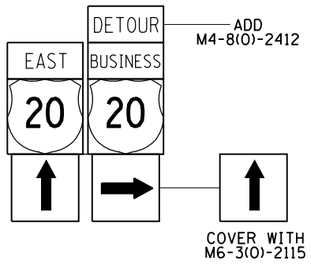

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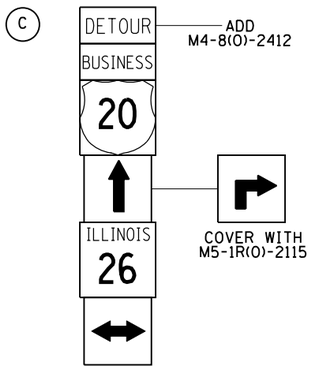

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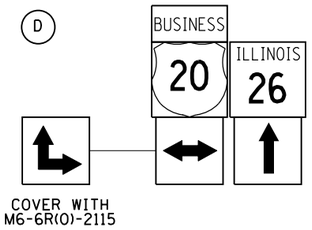

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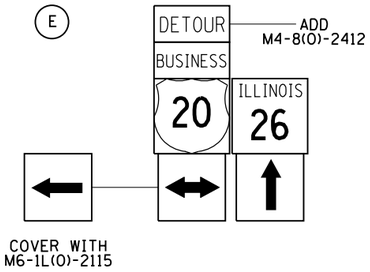

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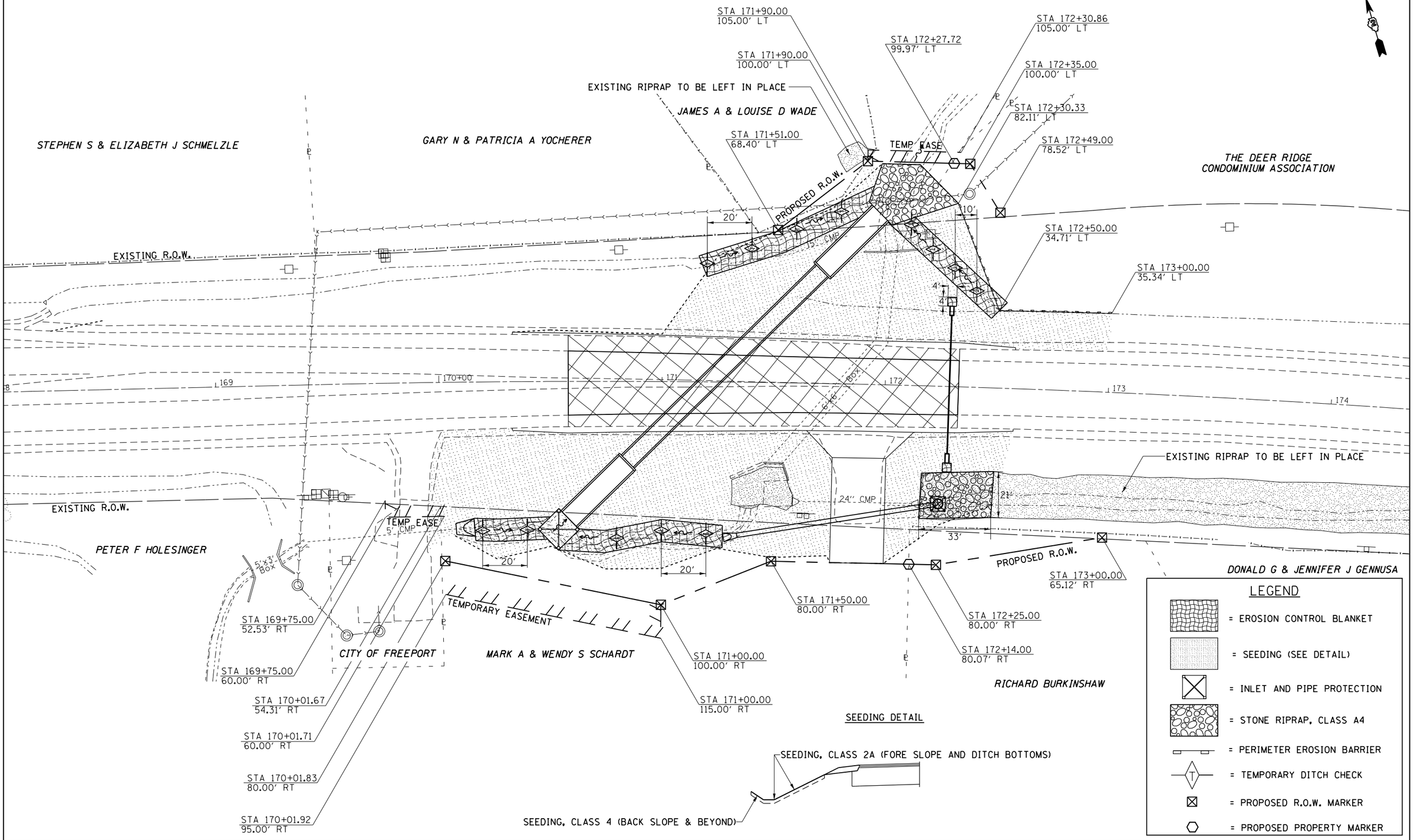
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	17
		CONTRACT NO. 64G91		
		ILLINOIS FED. AID PROJECT		

R.O.W., EROSION CONTROL, & SEEDING DETAILS



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Default	PLOT DATE = 7/27/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

R.O.W., EROSION CONTROL, & SEEDING DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	18
		CONTRACT NO. 64G91		
	ILLINOIS FED. AID PROJECT			

SOIL BORING LOGS

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 7/20/11

ROUTE FAP 5 DESCRIPTION P92-047-11 Culvert on Bus. Route 20, .1 mile E. of Greenfield Drive LOGGED BY W. Garza

SECTION 207 LOCATION Harlem Twp. - 26 SE, SEC. , TWP. 27N, RNG. 7E

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

STRUCT. NO. 089-1071
Station 901+04

BORING NO. B-1
Station 900+38
Offset 43.00ft Rt CL
Ground Surface Elev. 90.3 ft

Surface Water Elev. ft
Stream Bed Elev. 13.7 ft

Groundwater Elev.:
First Encounter 68.3 ft ▼
Upon Completion 76.3 ft ▽
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				STIFF brown SILTY CLAY LOAM
		1.0 P	20	
88.30				
	2			MEDIUM dark gray SILTY LOAM with ORGANICS
	1	0.5 P	48	
86.80	2			
				SOFT gray LOAM
-5	1			
	1	0.4 B	29	
84.30	1			
	2			MEDIUM light gray SILTY CLAY LOAM TILL
	3	0.7 B	17	
81.80	4			
				VERY STIFF light gray SILTY CLAY LOAM TILL
-10	2			
	4	2.9 B	14	
79.30	7			
	6			HARD gray SILTY CLAY LOAM TILL
	7	4.2 S	14	
	8			
76.30 ▽				
				VERY STIFF gray SILTY CLAY
-15	6			
	6	2.3 B	29	
74.30	10			
	5			VERY STIFF gray SILTY CLAY
	8	2.9 B	20	
71.80	10			
				VERY STIFF gray SILTY LOAM
-20	3			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	5	2.1 B	23	VERY STIFF gray SILTY LOAM (continued)
69.30	6			
	3			SOFT gray SILTY LOAM with SAND lens
	2	0.3 P	33	
66.80	3			
	2			VERY STIFF tan SILTY CLAY
-25	3			
	3	2.3 B	23	
64.30	6			
	6			STIFF tan weathered LIMESTONE with CLAY LOAM
	16	2.0 P	23	
61.30	11			
	9			DENSE tan weathered LIMESTONE
-30	15			
59.30	21			
	100/11"			VERY DENSE tan weathered LIMESTONE
56.80				
				End of Boring
-35				
-40				

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

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 1

Date 7/21/11

ROUTE FAP 5 DESCRIPTION P92-047-11 Culvert on Bus. Route 20, .1 m. E. of Greenfield Drive LOGGED BY W. Garza

SECTION 207 LOCATION Harlem Twp. - 26 SE, SEC. , TWP. 27N, RNG. 7E

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

STRUCT. NO. 089-1071
Station 901+04

BORING NO. B-2
Station 901+55
Offset 33.00ft Lt CL
Ground Surface Elev. 97.0 ft

Surface Water Elev. ft
Stream Bed Elev. 13.7 ft

Groundwater Elev.:
First Encounter 75.0 ft ▼
Upon Completion 73.0 ft ▽
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
				Big Rock
92.50				
-5	2			MEDIUM brown LOAM with LIMESTONE
	3	0.8 P	17	
91.00	4			
	2			MEDIUM brown SILTY LOAM
	1	0.6 B	28	
88.50	3			
				SOFT light brown SILTY LOAM
-10	2			
	3	0.3 P	27	
86.00	3			
	2			MEDIUM brown SILTY CLAY LOAM
	3	0.6 B	24	
83.50	4			
	1			VERY SOFT tan SANDY LOAM
-15	2	0.2 P	37	
	2			
80.50				
	1			LOOSE tan fine SAND with medium moist GRAVEL
	3			
	4			
78.00				
				LOOSE tan SAND with SILT lens
-20	0			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Description
	4		24	LOOSE tan SAND with SILT lens (continued)
76.00	3			
	2			STIFF gray SILTY CLAY
	3	1.1 B	24	
73.50	4			
-25	8			VERY DENSE tan weathered LIMESTONE
	18			
71.00	100/5"			
				End of Boring
-30				
-35				
-40				

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

BBS, from 137 (Rev. 8-99)

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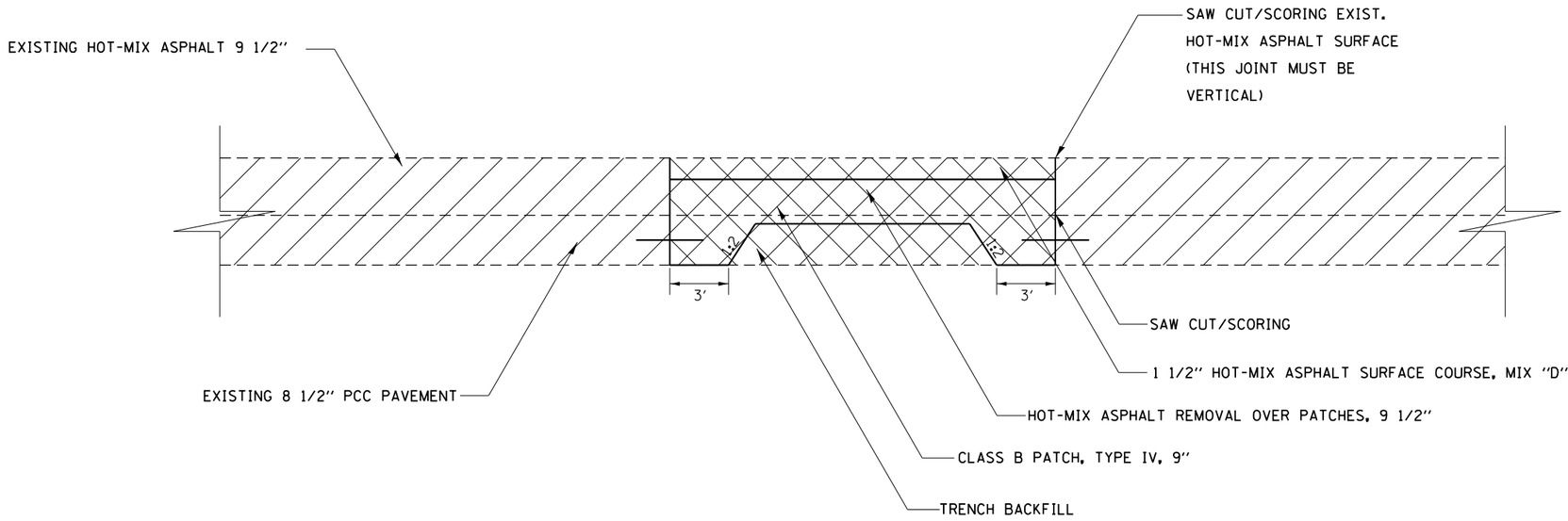
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	19
		CONTRACT NO. 64G91		
	ILLINOIS FED. AID PROJECT			

CLASS B PATCH DETAIL



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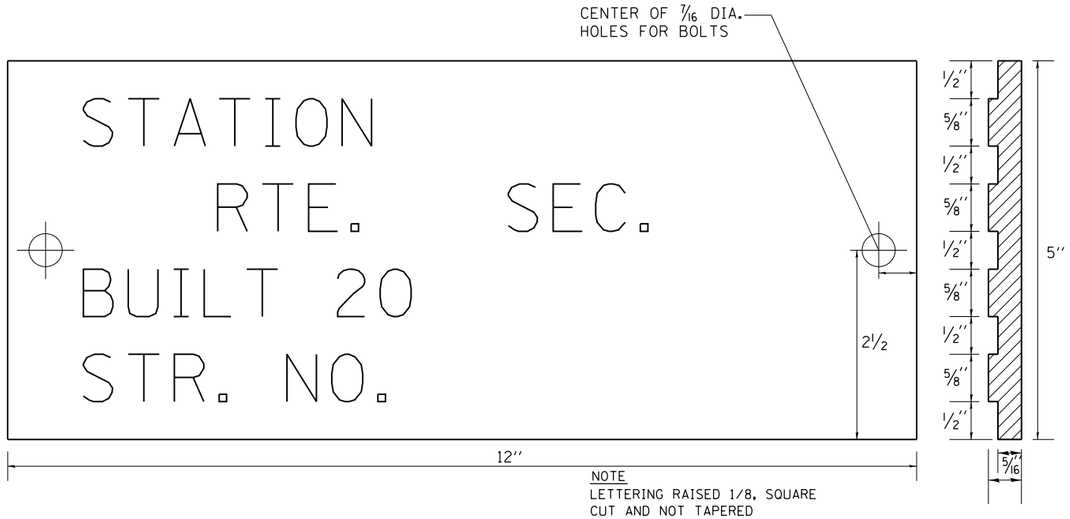
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CLASS B PATCH DETAIL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	20
		CONTRACT NO. 64G91		
		ILLINOIS FED. AID PROJECT		

NAME PLATE DETAIL



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

DESIGNERS NOTE

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

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

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

IN BOTH CASES INCLUDE A PAY ITEM FOR NAME PLATES.

STATION	STRUCTURE NO.
171+21	089-1148

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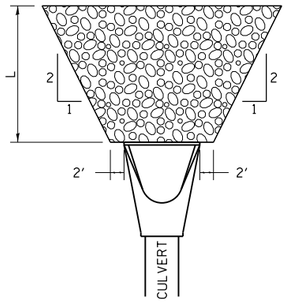
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NAME PLATE DETAIL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	21
		CONTRACT NO. 64G91		
	ILLINOIS	FED. AID PROJECT		

RIPRAP AT END SECTIONS



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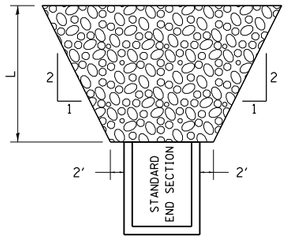
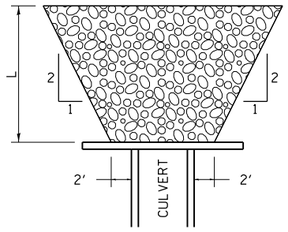


STANDARD END SECTION

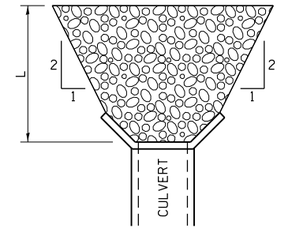
THE LENGTH OF RIPRAP (L) IS TO BE THREE (3) TIMES THE 10 YEAR CULVERT OUTLET VELOCITY, FROM THE WATERWAY INFORMATION TABLE (WIT).

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).



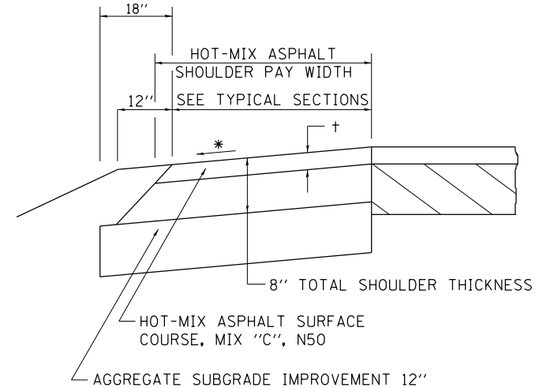
CULVERT WITH HEADWALL



CULVERT WITH WING WALLS

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

HOT–MIX ASPHALT SHOULDER



† = SEE TYPICAL SECTIONS FOR THICKNESS

GENERAL NOTES

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

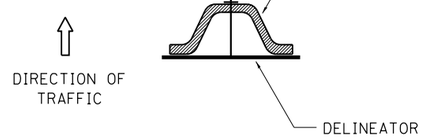
USE HOT-MIX ASPHALT SURFACE COURSE, MIX ''C'', N50. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX ''C'', N50.

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

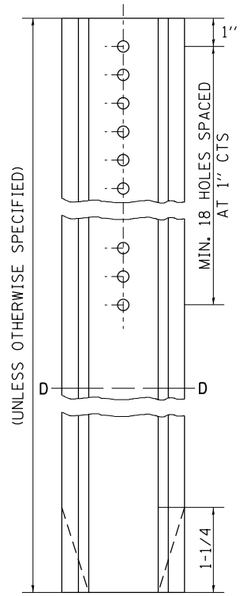
* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.

REVISED - 1-05-16
REVISED - 3-13-13

DELINEATOR AND POST ORIENTATION



SECTION D-D



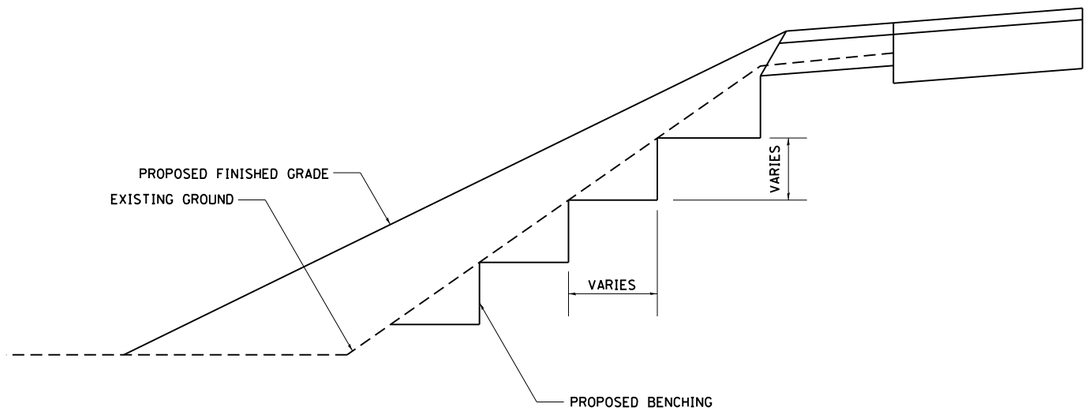
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180° . THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHECD AS SHOWN ABOVE.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-03-11

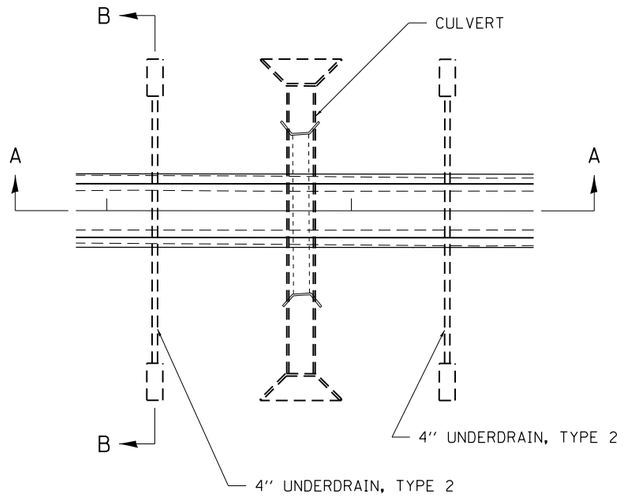
PLOT DATE = 7/27/2016

TYPICAL BENCHING ON EXISTING EMBANKMENT

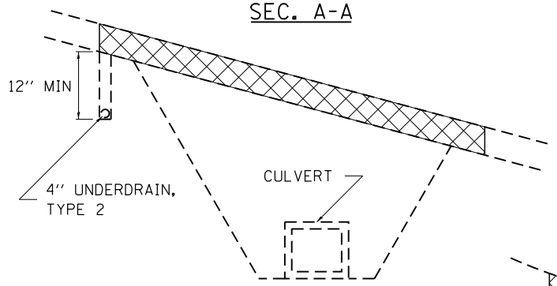


REVISED - 2-22-06	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
REVISED -		5	20T	STEPHENSON	36 / 22
REVISED -				CONTRACT NO. 64G91	
REVISED -	SCALE: 100.0000 ' / in. SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

UNDERDRAIN FOR ACROSS ROAD (AR) CULVERTS

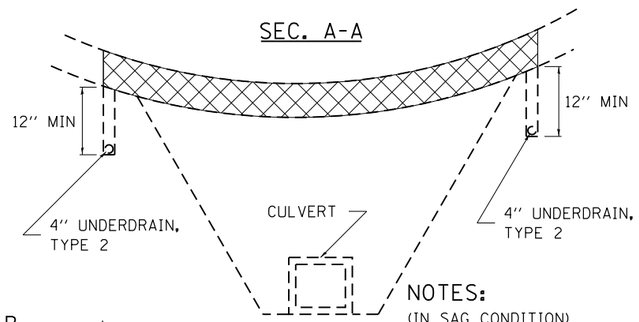


SEC. A-A



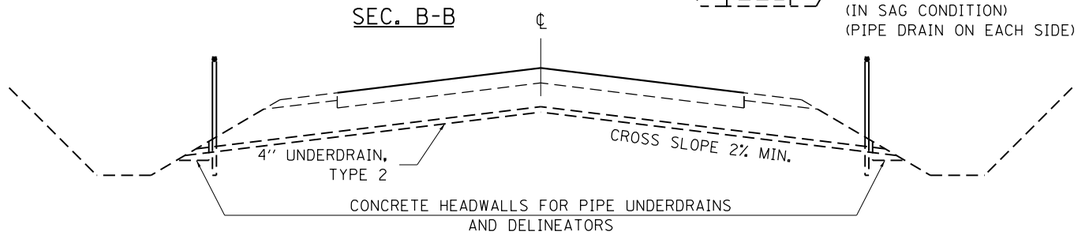
NOTES:
(HIGHWAY GRADE GREATER THAN 2%)

SEC. A-A



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

SEC. B-B



NOTES:

IN SAG CONDITIONS INSTALL PIPE UNDERDRAINS, TYPE 2, ON BOTH SIDES OF CULVERT.

ON HIGHWAY GRADES GREATER THAN 2% INSTALL PIPE UNDERDRAINS, TYPE 2, ON THE HIGH SIDE OF THE CULVERT.

THIS WORK SHALL BE COMPLETED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS.

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 STANDARD 601101).

THE UNDERDRAIN SHALL BE A MINIMUM OF 12'' BELOW THE EXISTING PAVEMENT.

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, TYPE 2, 4''.

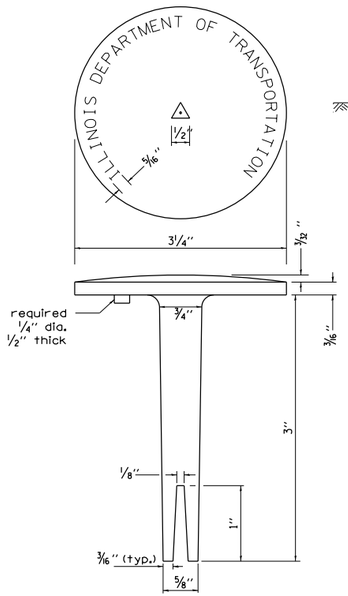
CONCRETE HEADWALLS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR CONCRETE HEADWALLS FOR PIPE UNDERDRAINS.

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

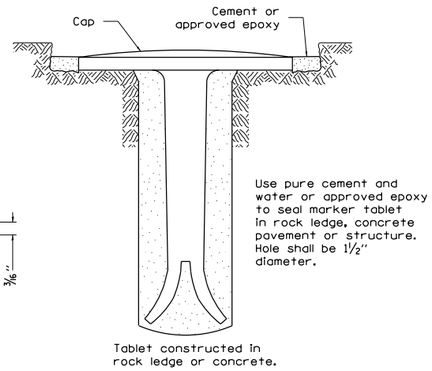
REVISED - 1-05-16
REVISED - 6-27-14
7-05-12

PLOT DATE = 7/27/2016

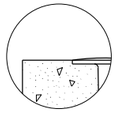
PERMANENT SURVEY MARKERS, TYPE II



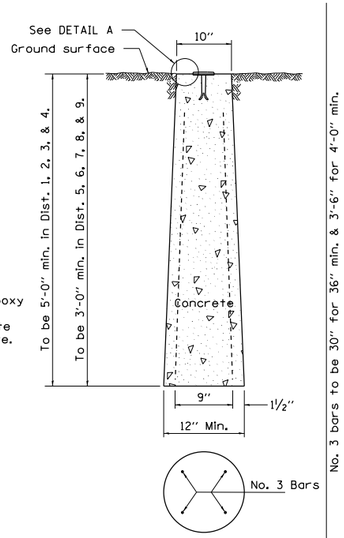
BRASS OR ALUMINUM TABLET



TYPE II



DETAIL A

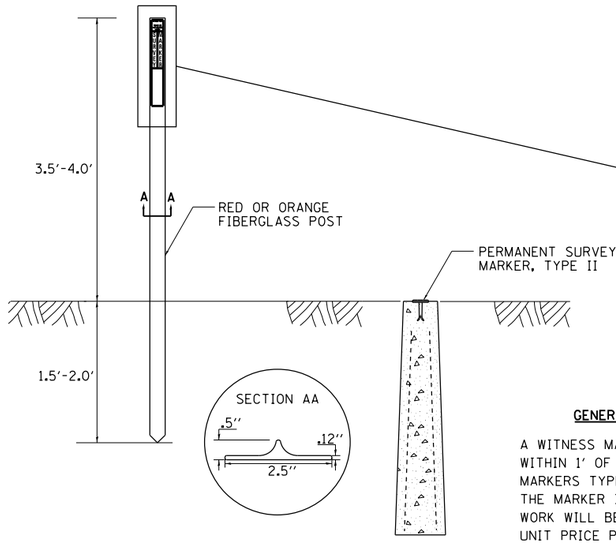


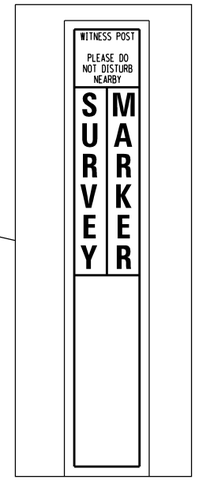
TYPE II

CAST-IN-PLACE MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II





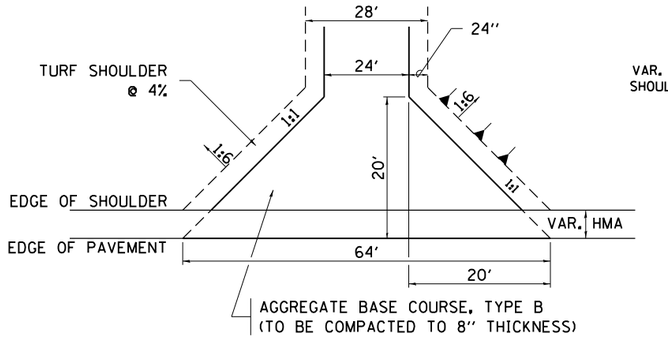
GENERAL NOTES

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

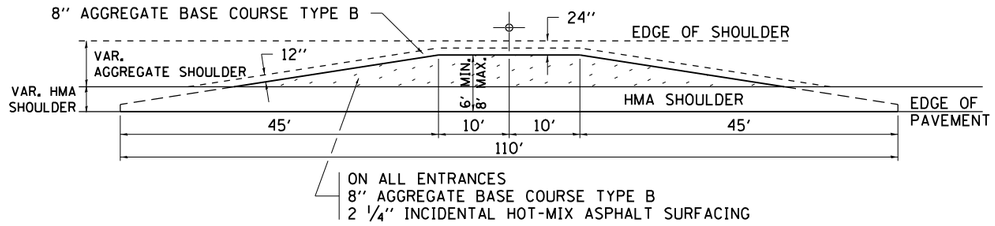
REVISED - 6-27-14	REGION 2 / DISTRICT 2 STANDARD				
REVISED - 10-14-11					
REVISED -					
REVISED -	SCALE: 100.0000 ' / in. SHEET NO. OF SHEETS STA. TO STA.				

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	23
		CONTRACT NO. 64G91		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HOT–MIX ASPHALT APPROACHES AND MAILBOX RETURNS



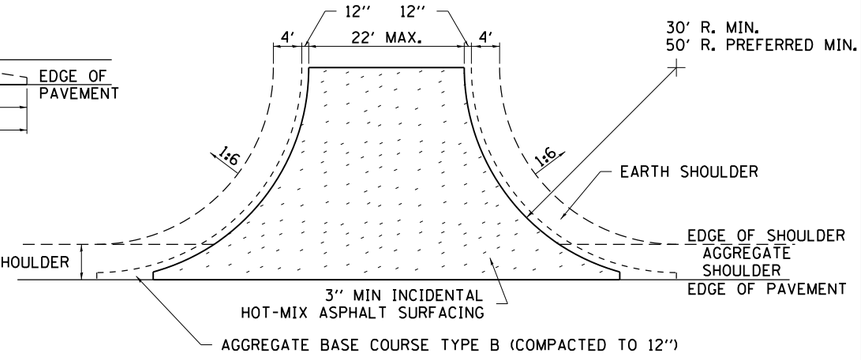
FIELD ENTRANCE



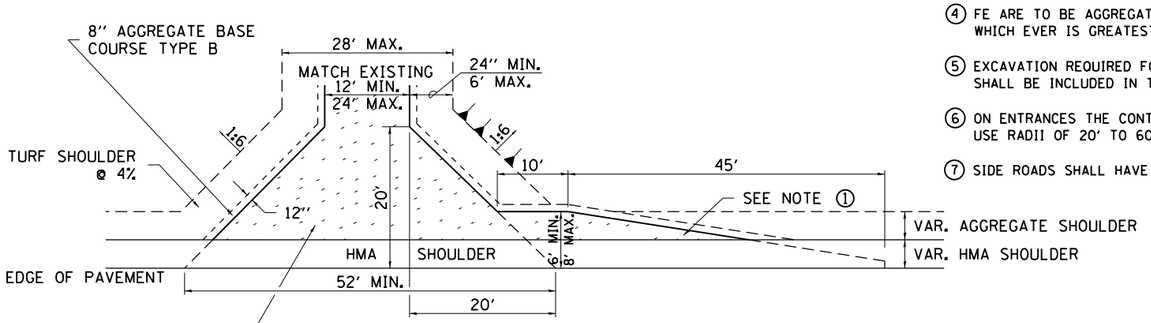
MAILBOX TURNOUT

NOTE

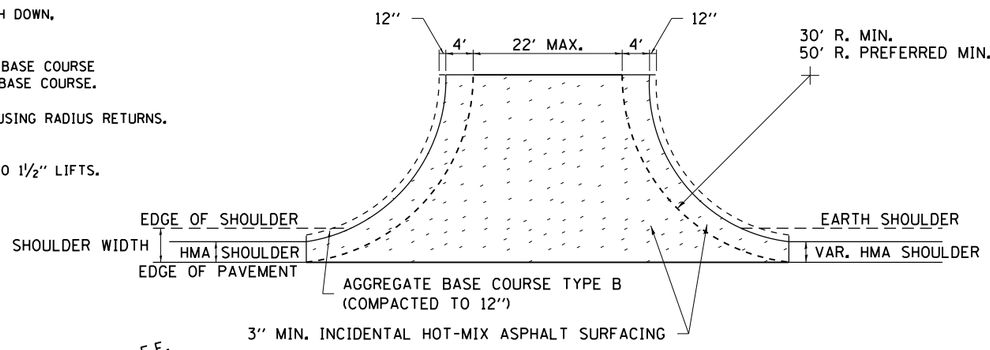
1. TURNOUTS ARE TO BE CONSTRUCTED ON THE APPROACH SIDE OF ALL PE & CE REGARDLESS IF A MAILBOX IS PRESENT.
2. ALL PE & CE ARE TO BE SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
3. ALL PE & CE TO BE CONSTRUCTED WITH AN 8″ AGGREGATE BASE COURSE, TYPE B AND WITH A 2 1/4″ INCIDENTAL HOT-MIX ASPHALT SURFACING, UNLESS OTHERWISE NOTED.
4. FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN, WHICH EVER IS GREATEST.
5. EXCAVATION REQUIRED FOR PLACEMENT OF AGGREGATE BASE COURSE SHALL BE INCLUDED IN THE COST OF THE AGGREGATE BASE COURSE.
6. ON ENTRANCES THE CONTRACTOR HAS THE OPTION OF USING RADIUS RETURNS. USE RADII OF 20′ TO 60′.
7. SIDE ROADS SHALL HAVE 3″ INCIDENTAL PLACED IN TWO 1½″ LIFTS.



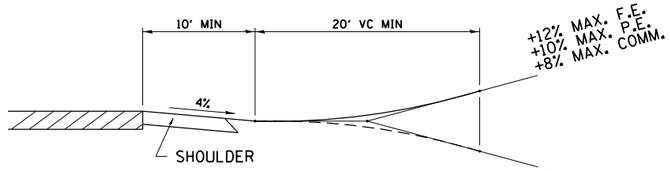
SIDE ROAD RETURN/EARTH SHOULDER



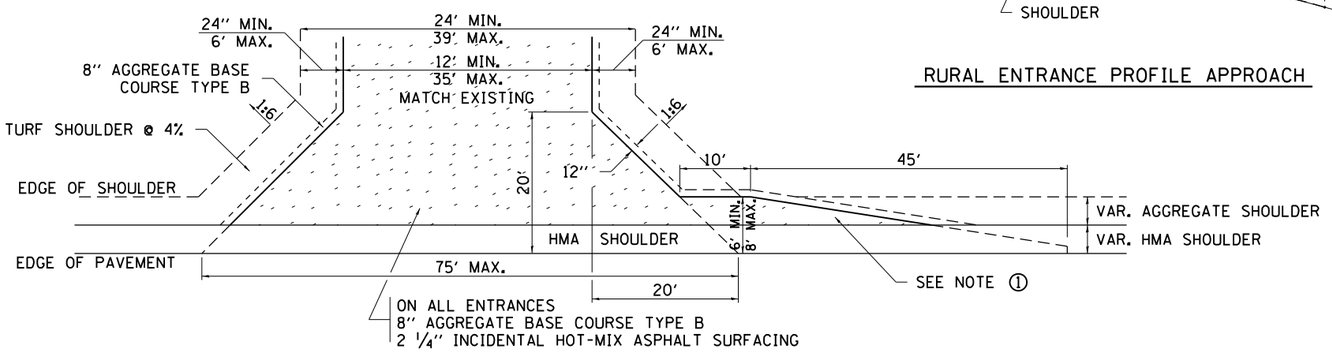
PRIVATE ENTRANCE



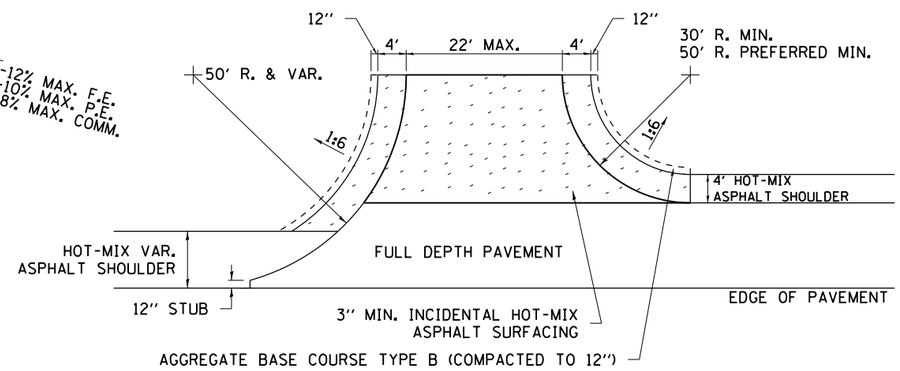
SIDE ROAD RETURN/HMA SHOULDER



RURAL ENTRANCE PROFILE APPROACH



COMMERCIAL ENTRANCE



SIDE ROAD RETURN WITH RIGHT TURN LANE

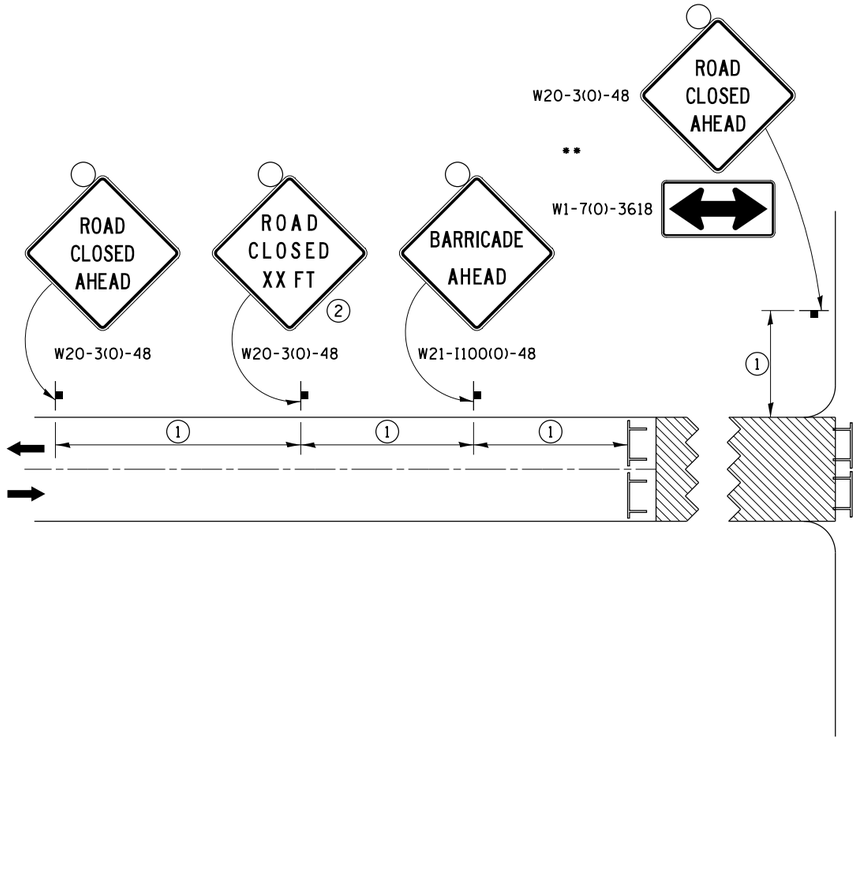
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 2\Projects\D2047[illegible]\CADData\CADsheets\D204711-sht-cover.dgn	USER NAME = goffjl	DESIGNED -	REVISED -	6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN	REVISED -	8-27-13	
	PLOT SCALE = 100.0000 ′ / in.	CHECKED -	REVISED -	12-07-10	
	PLOT DATE = 7/27/2016	DATE -	REVISED -		

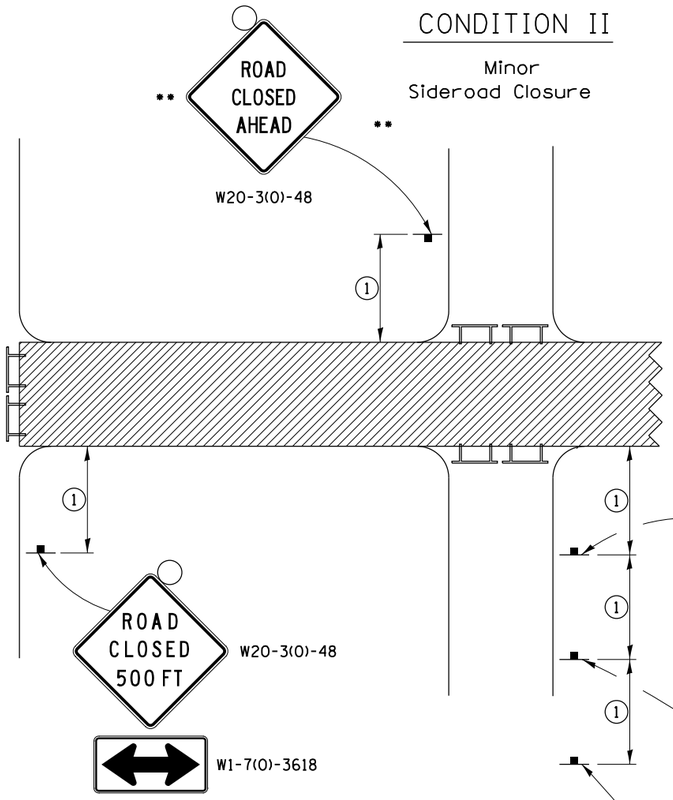
REGION 2 / DISTRICT 2 STANDARD

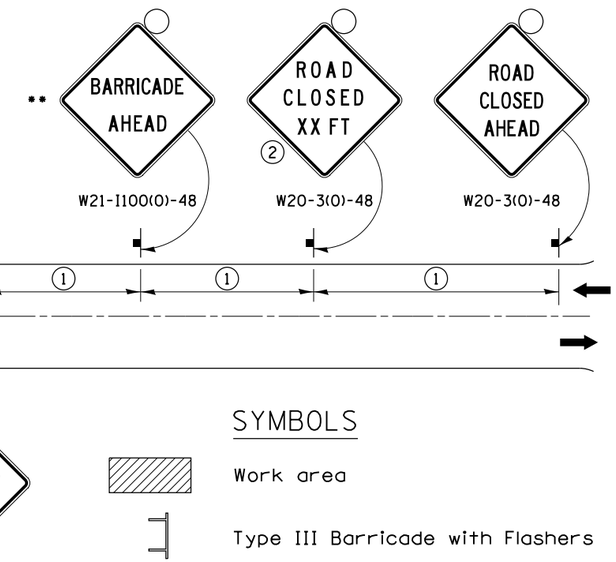
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

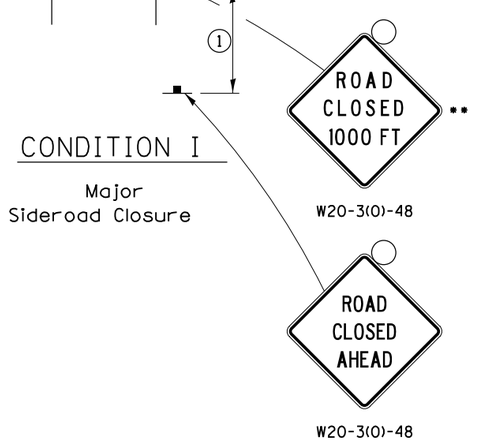
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	24
		CONTRACT NO. 64G91		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC CONTROL FOR ROAD CLOSURE









CONDITION I

Major
Sideroad Closure

SYMBOLS

Work area

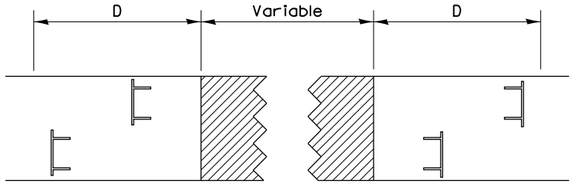
Type III Barricade with Flashers

Sign with flashing light

① SIGN SPACING TABLE	
Posted Speed	Sign Spacing
45 MPH and above	500′
Below 45 MPH	250′

② SIGN LEGEND	
Posted Speed Limit	Distance
45 MPH and above	1000′
Below 45 MPH	500′

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.

GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

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.

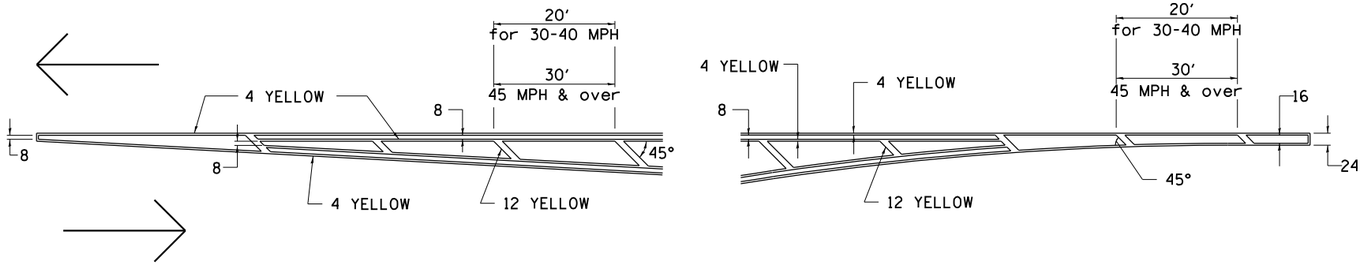
All dimensions are in inches unless otherwise shown.

TYPICAL APPLICATION FOR ROAD CLOSURE

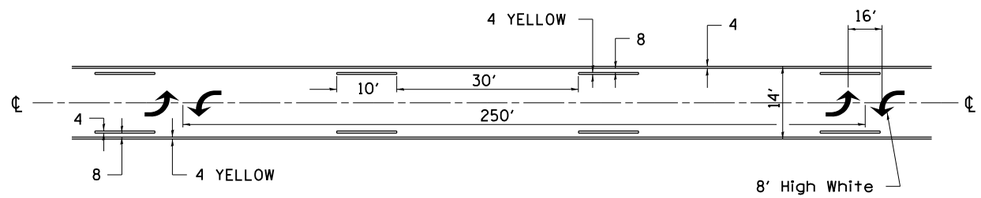
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 2\Projects\D2047\Drawings\CADsheets\D204711-sht-cover.dgn	USER NAME = goffjl	DESIGNED -	REVISED - 1-05-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - 8-27-13				5	20T	STEPHENSON	36	25
	PLOT SCALE = 100.0000 ′ / in.	CHECKED -	REVISED - 10-17-11						CONTRACT NO. 64G91		
	PLOT DATE = 7/27/2016	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

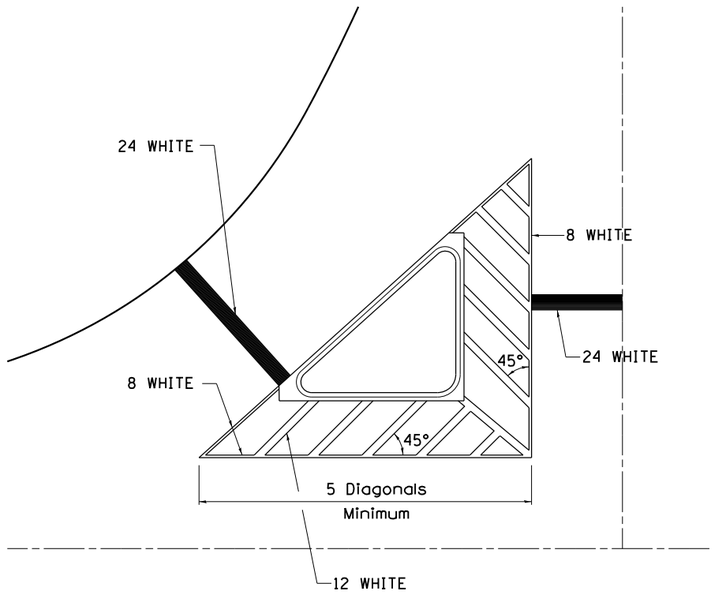


MEDIAN PAVEMENT MARKING



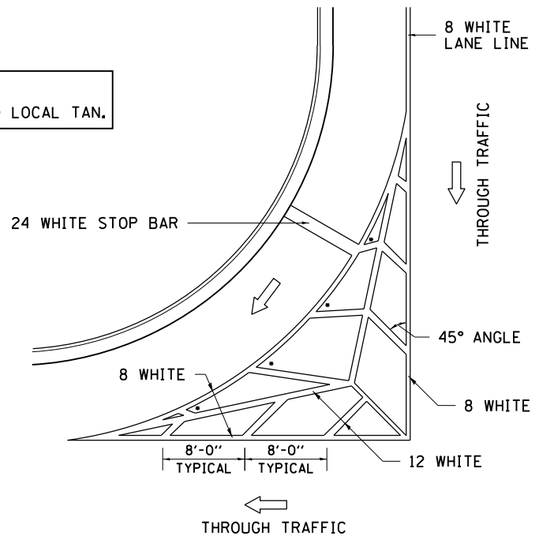
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



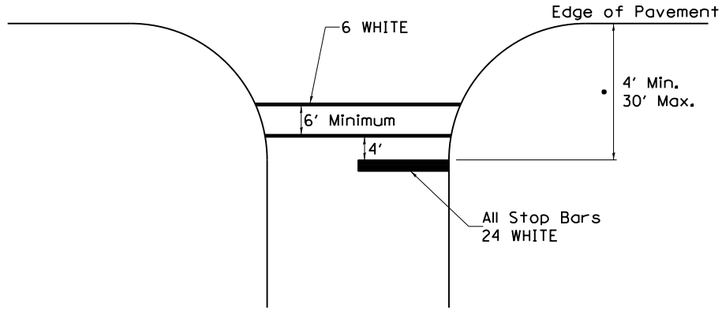
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations



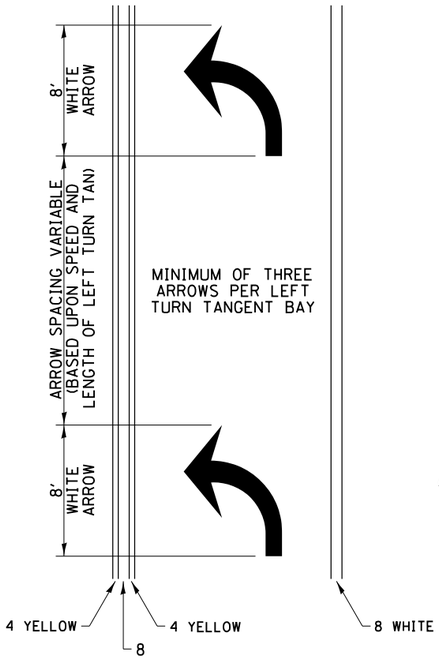
• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 2\Projects\D2047711\WorkData\CADsheets\D2047711-sht-cover.dgn	USER NAME = goffjl	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD
	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED - 3-05-12		
	PLOT DATE = 7/27/2016	CHECKED -	REVISED -		
		DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	26
		CONTRACT NO. 64G91		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT



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

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN

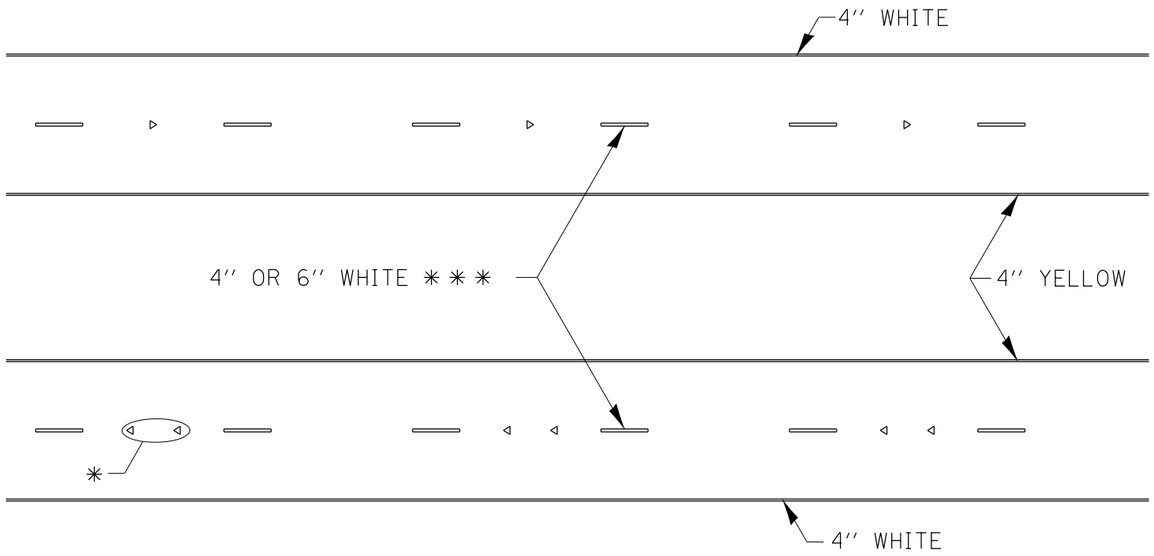
RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

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

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

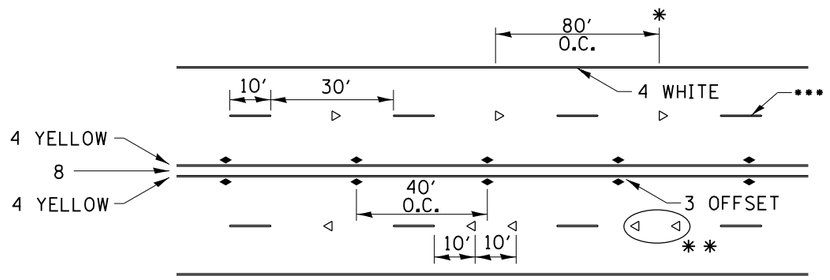
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 2\Projects\D2047\DrawingData\CADsheets\D204711-sht-cover.dgn	USER NAME = goff,jl	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - 3-05-12			5	20T	STEPHENSON	36	27
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 64G91		
	PLOT DATE = 7/27/2016	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS



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

MULTI–LANE / DIVIDED



SYMBOLS

- REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

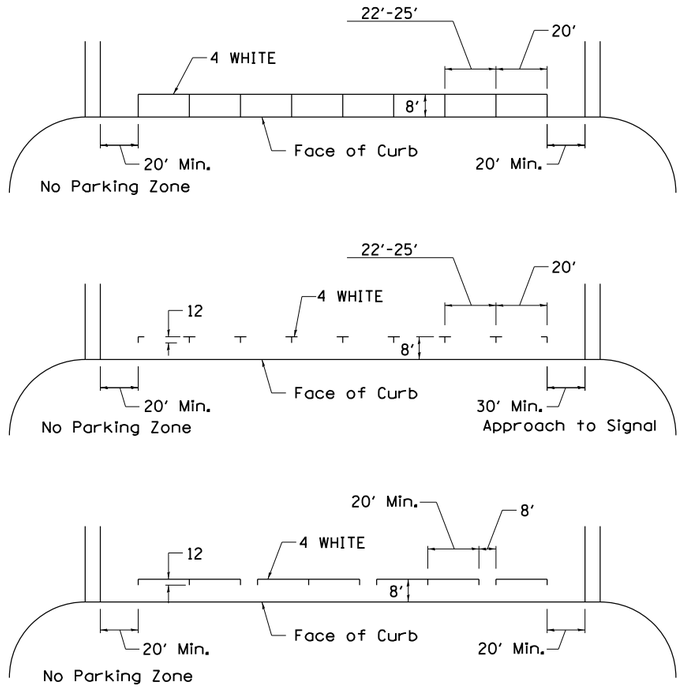
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4'' LINE. SPEED LIMIT 40 MPH AND OVER USE 6'' LINE.

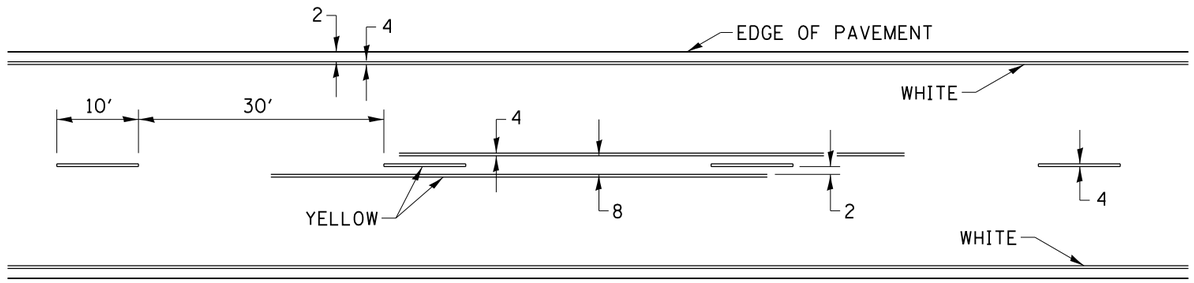
MULTI–LANE / UNDIVIDED & ONE WAY

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

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



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		DRAWN -	REVISED - 8-27-13		
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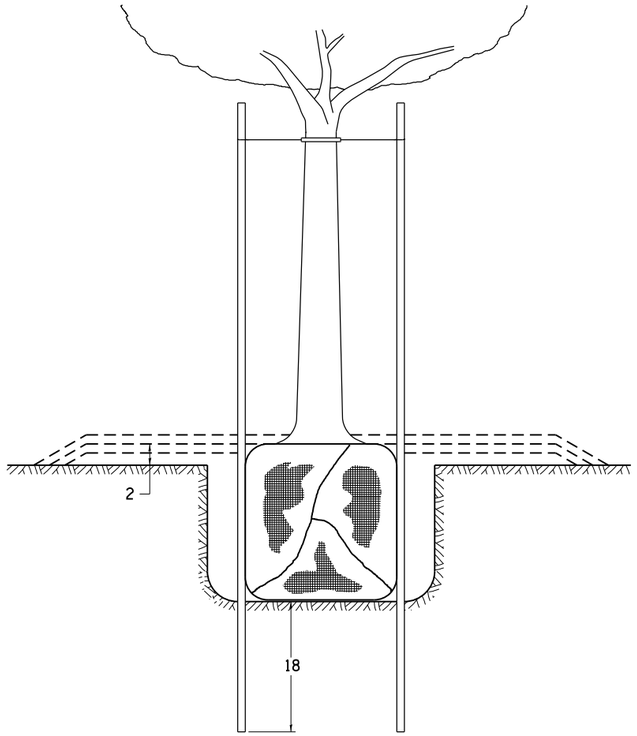
	PLOT DATE = 7/27/2016	DATE -	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	28
		CONTRACT NO. 64G91		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

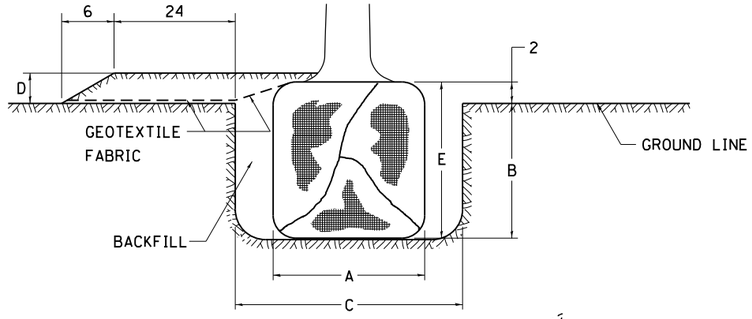
DETAILS OF PLANTING AND BRACING TREES

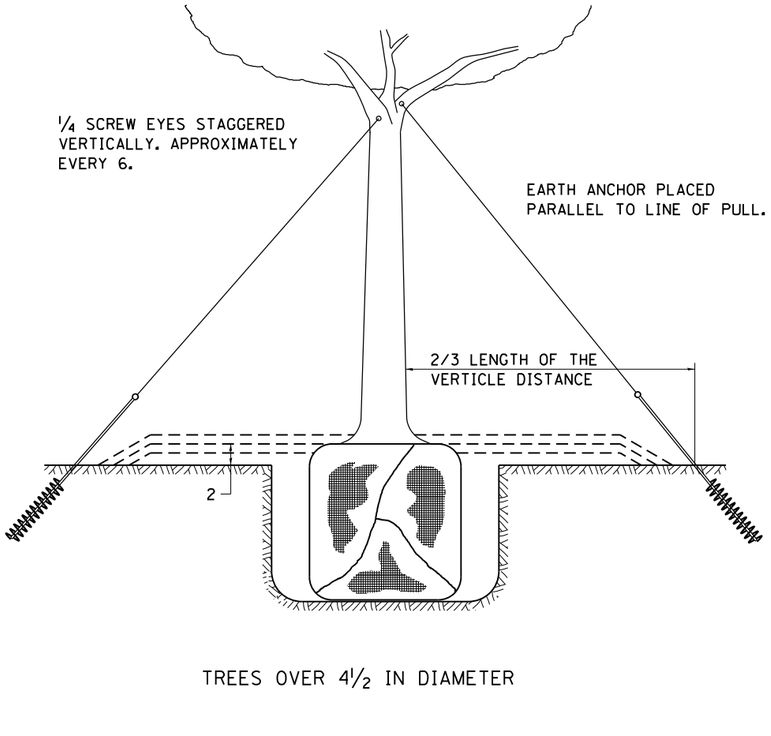


TREES SMALLER THAN 4½ IN DIAMETER

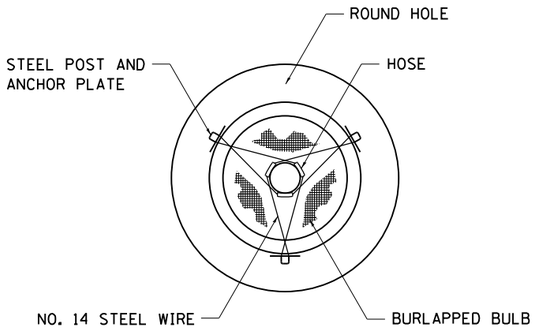
SMALL TREE SIZE	A DIAMETER OF BALL OR ROOT SYS.	B DEPTH OF HOLE EXCAVATION	C WIDTH OF HOLE EXCAVATION	D THICKNESS OF MULCH COVER	E DEPTH OF BALL OR ROOT SYS.	F VOLUME OF MULCH COVER CU. YDS.
5'-6'	16	10	30	4	12	0.54
5'-6' BB	16	10	30	4	12	0.54
6'-7' BB	18	12	30	4	14	0.54
7'-8' BB	20	11	30	4	13	0.54
8'-10'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

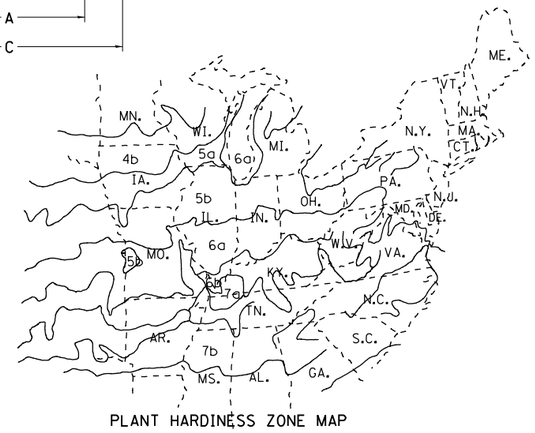
LARGE TREE SIZE	A DIAMETER OF BALL OR ROOT SYS.	B DEPTH OF HOLE EXCAVATION	C WIDTH OF HOLE EXCAVATION	D THICKNESS OF MULCH COVER	E DEPTH OF BALL OR ROOT SYS.	F VOLUME OF MULCH COVER CU. YDS.
0-2	20	11	36	4	13	0.61
2-2½ BB	24	14	48	4	16	0.78
2½-3 BB	28	17	48	4	19	0.78
3-3½ BB	32	17	60	4	19	0.96
3½-4 BB	36	20	60	4	22	0.96
4-4½ BB	40	22	72	4	24	1.16
4½-5 BB	44	24	72	4	26	1.16
5-5½ BB	48	27	84	4	29	1.38





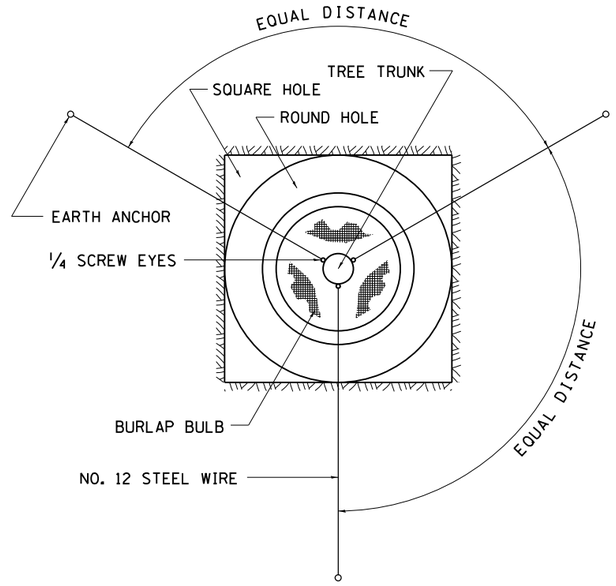
TREES OVER 4½ IN DIAMETER





PLANT HARDINESS ZONE MAP

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



ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE NOTED.

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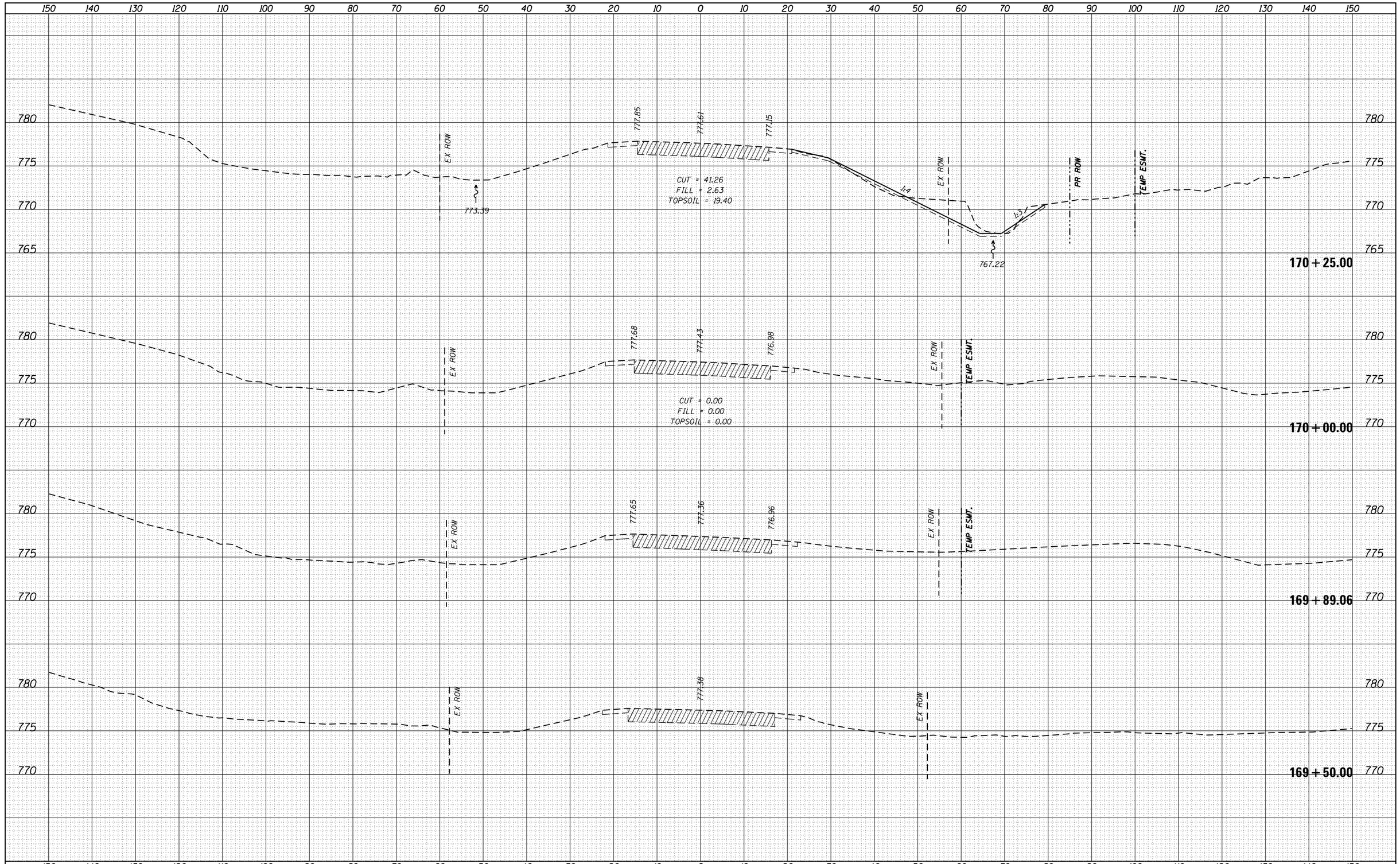
		DRAWN -	REVISED -			5	20T	STEPHENSON	36	29
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 64G91		
	PLOT DATE = 7/27/2016	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

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Default	PLOT DATE = 7/27/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 169+50.00 TO STA.170+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	30
		CONTRACT NO. 64G91		
		ILLINOIS FED. AID PROJECT		

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

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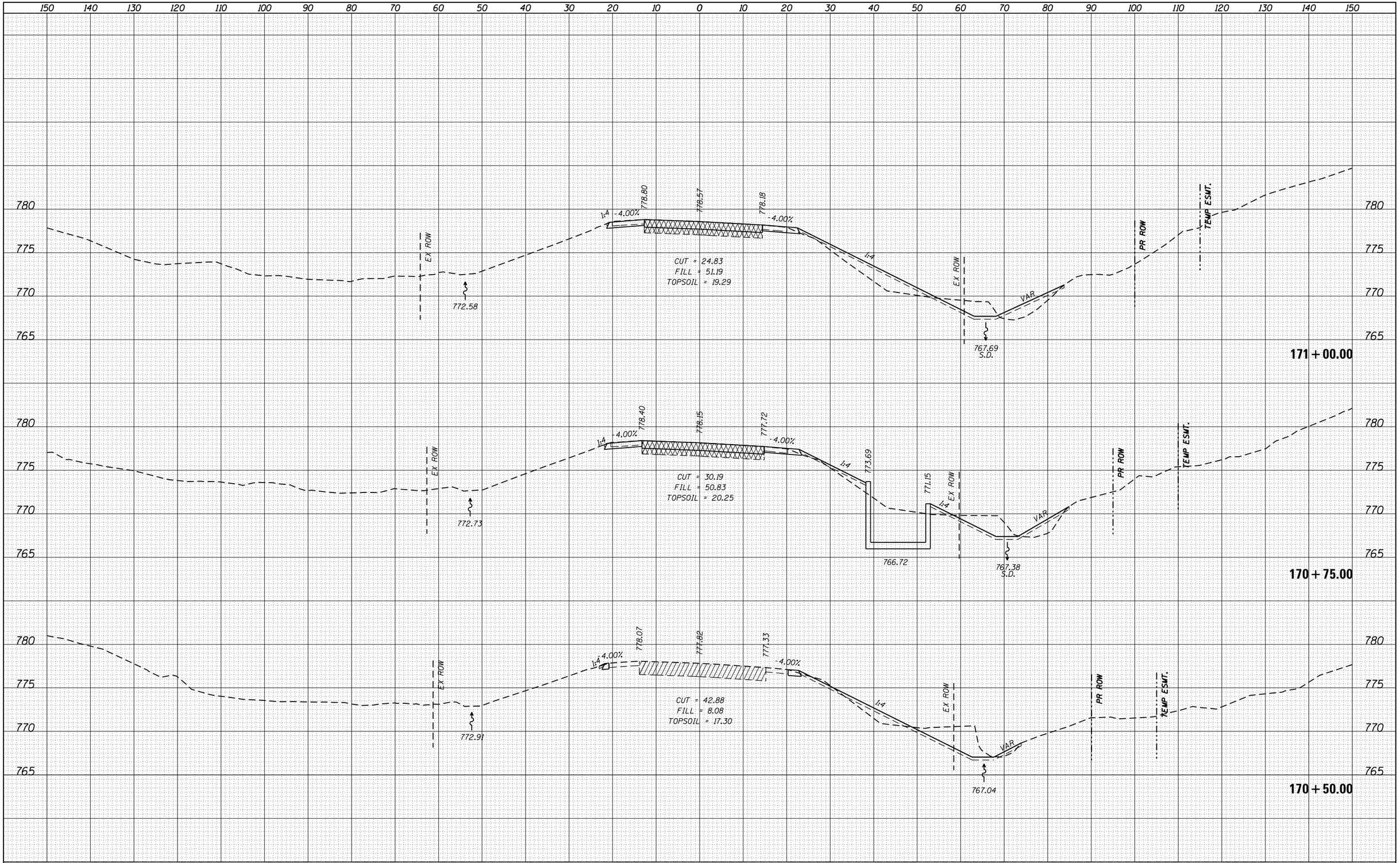
	AREAS			
	AREAS CHECKED			



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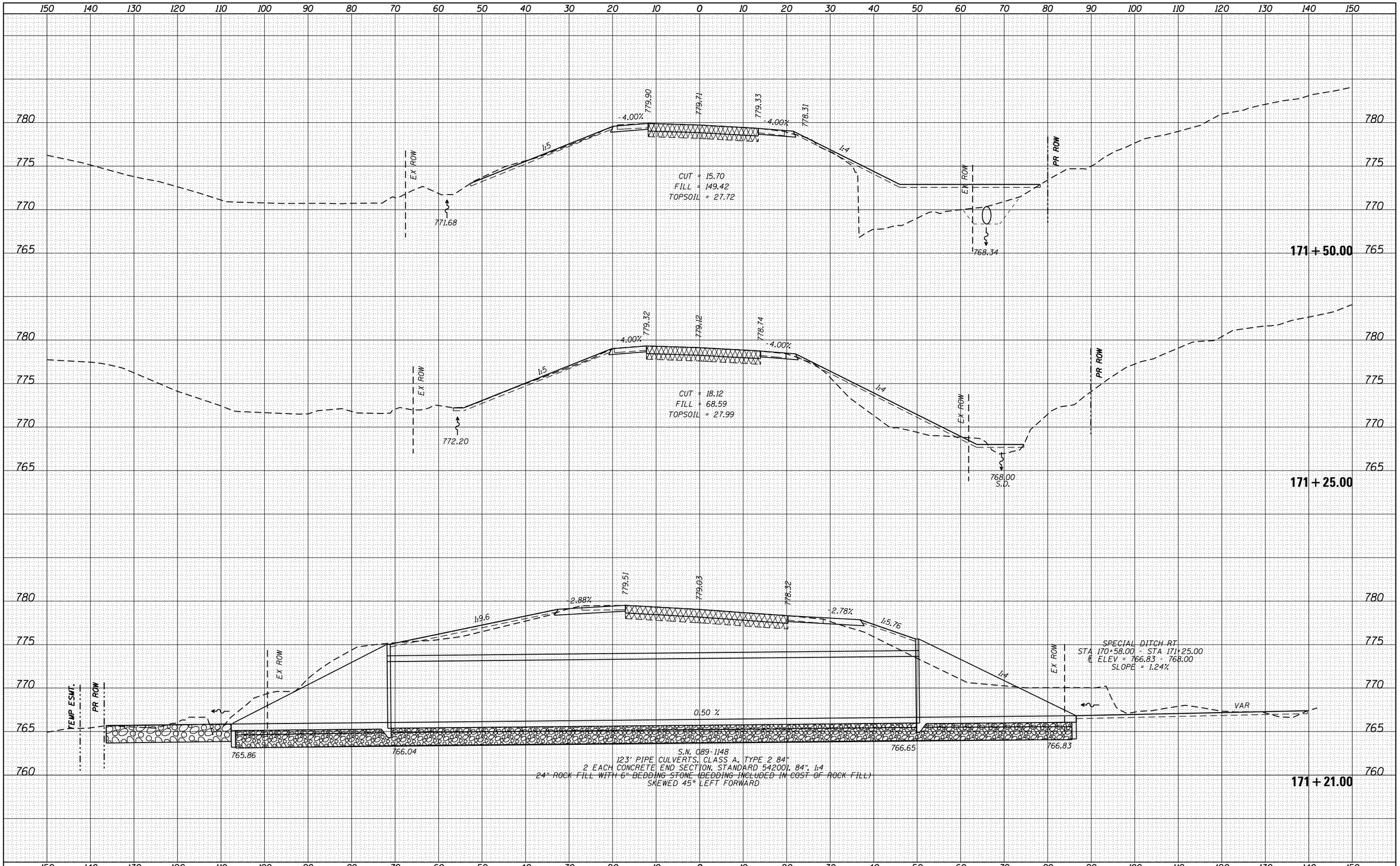
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 7/27/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 170+50.00 TO STA. 171+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	31
		CONTRACT NO. 64G91		
	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY

NO.	NOTE BOOK	BY	DATE

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY

NO.	NOTE BOOK	BY	DATE

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

FILE NAME =	USER NAME = goffjl	DESIGNED -	REVISED -
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Default	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/27/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 171+21.00 | TO STA. 171+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	32

CONTRACT NO. 64G91

ILLINOIS | FED. AID PROJECT

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

BY	DATE

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

BY	DATE

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

780
775
770
765

PR ROW
VAR
767.07
EX ROW
770.15
1:4
781.06
780.91
780.52
-4.00%
-4.00%
FIELD ENTRANCE
-2.33%
EX ROW
PR ROW
765.91
768.62
CUT = 134.97
FILL = 31.97
TOPSOIL = 24.74

171 + 89.00

780
775
770
765

PR ROW
EX ROW
VAR
772.43
775.04
1:5
780.62
780.45
780.07
-4.00%
-4.00%
FIELD ENTRANCE
-2.33%
VAR
EX ROW
PR ROW
766.01
768.53
CUT = 24.32
FILL = 51.04
TOPSOIL = 25.75

171 + 75.00

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Default	PLOT DATE = 7/27/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 171+75.00 | TO STA. 171+89.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	33
		CONTRACT NO. 64G91		
	ILLINOIS FED. AID PROJECT			

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

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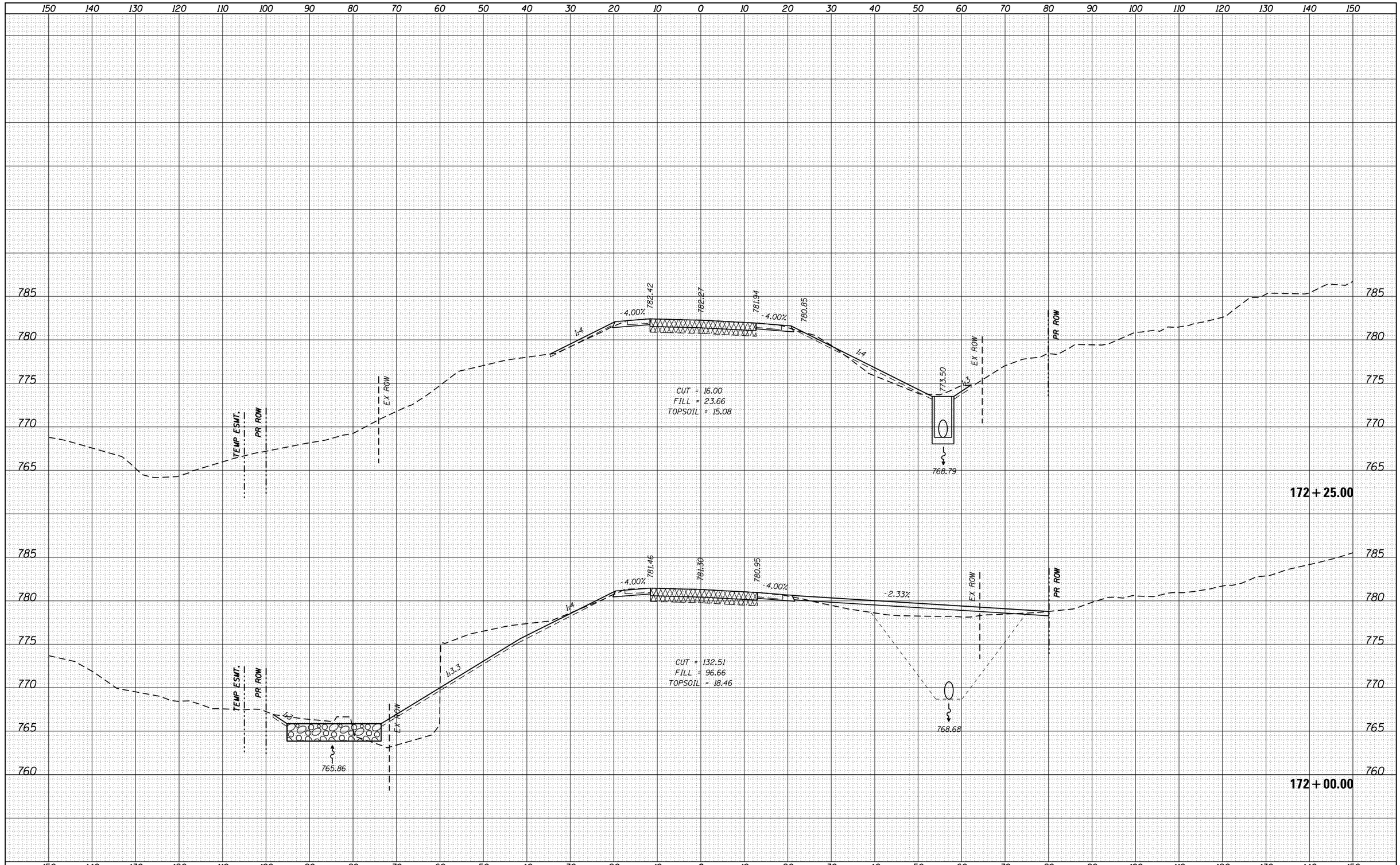
	AREAS	
	AREAS CHECKED	



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Default	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/27/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

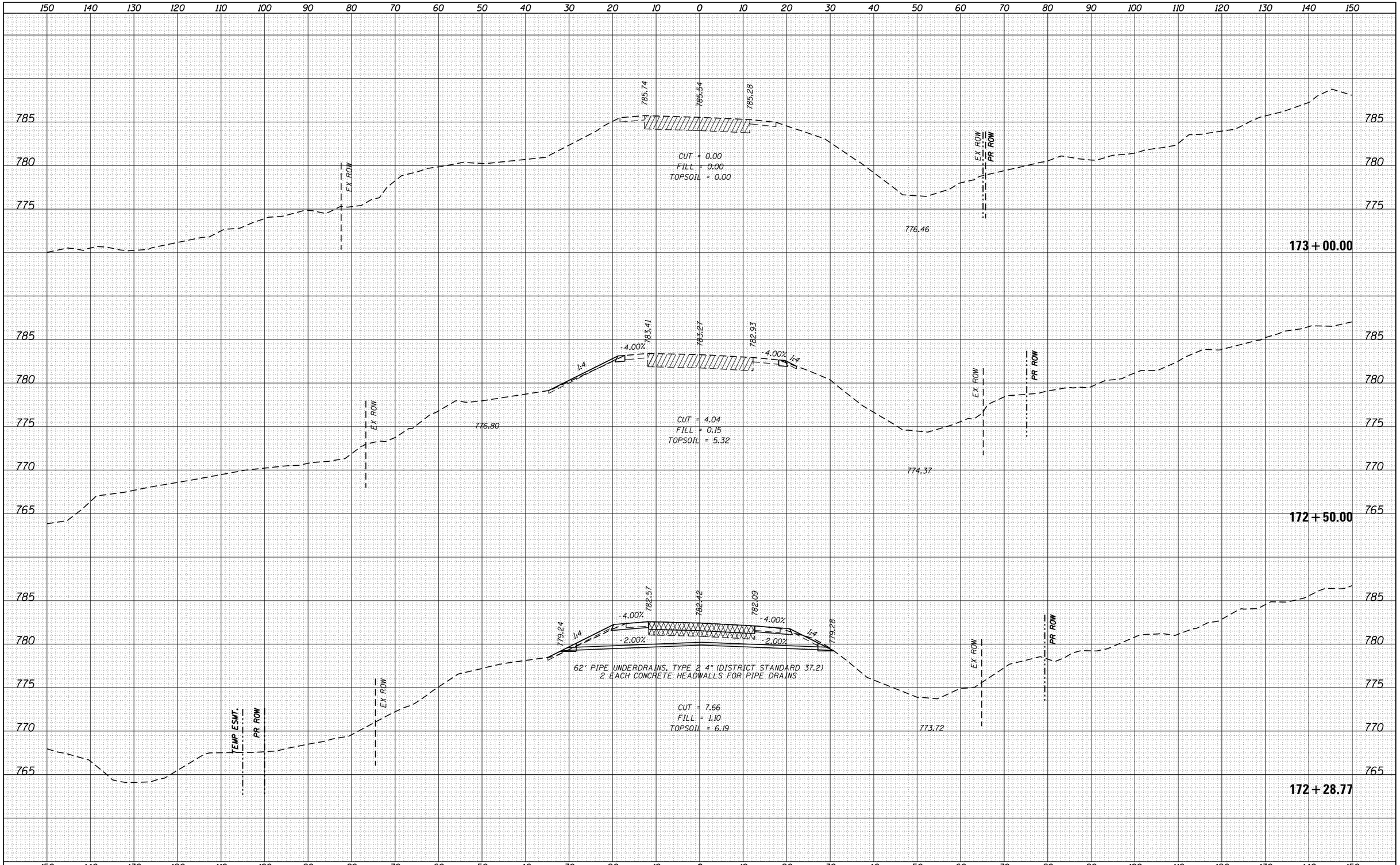
CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 172+00.00 | TO STA. 172+25.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	34
		CONTRACT NO. 64G91		
	ILLINOIS	FED. AID PROJECT		

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

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



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Default	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/27/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 172+28.77 TO STA. 173+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	35
		CONTRACT NO. 64G91		
	ILLINOIS FED. AID PROJECT			

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

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

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

785

780

775

EX. ROW

EX. ROW

785

780

775

173+50.00

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

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Default	PLOT DATE = 7/27/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. 173+50.00 | TO STA. 173+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	20T	STEPHENSON	36	36
		CONTRACT NO. 64G91		
	ILLINOIS	FED. AID PROJECT		