06-16-2023 LETTING ITEM 187

STATE OF ILLINOIS

WINNEBAGO COUNTY HIGHWAY DEPARTMENT

PLANS FOR PROPOSED ITEP IMPROVEMENT

(FAU 5153) PERRYVILLE BIKE PATH EXTENSION
SECTION: 21-00633-01-BT
PROJECT NO.: EKFU(347)
ITEP NO.: 243009

PERRYVILLE BIKE PATH EXTENSION (ANJALI WAY TO WILLOW BROOK LANE)
JOB NO.: C-92-008-22
CONTRACT NO.: 85741

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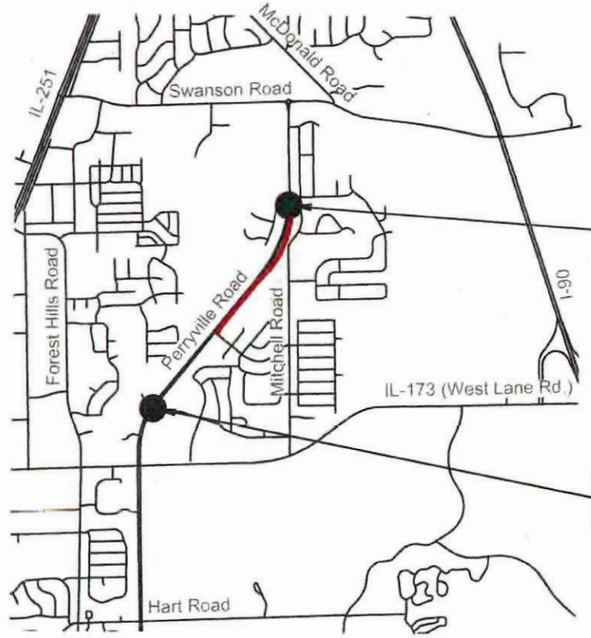
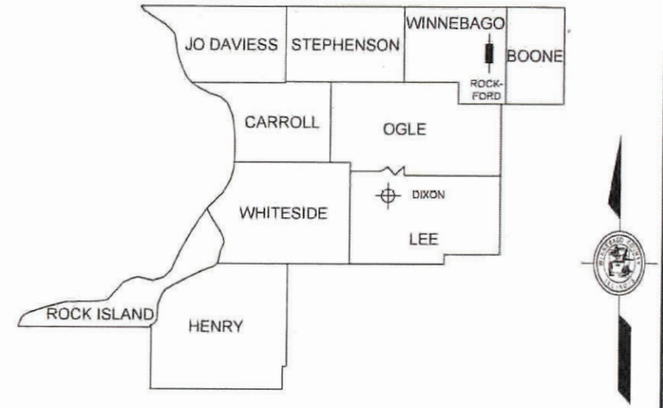
SCALES:	
CROSS-SECTIONS	PLAN & PROFILE
FULL SIZE	FULL SIZE
HORIZONTAL: 1" = 20'	HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'	VERTICAL: 1" = 10'
1/4 SIZE	1/4 SIZE
HORIZONTAL: 1" = 40'	HORIZONTAL: 1" = 100'
VERTICAL: 1" = 20'	VERTICAL: 1" = 20'



21-00633-01-BT PROJECT ENDS
STA 218+71.99 (WILLOW BROOK LANE)

21-00633-01-BT PROJECT BEGINS
STA 153+34.52 (ANJALI WAY)



DISTRICT HEADQUARTER
PROJECT LOCATION

PERRYVILLE PATH. 6,537.47 FT = 1.24 MILES
NO OMISSIONS
TOTAL LENGTH OF IMPROVEMENTS = 6,537.47 FT = 1.24 MILES

CALL J.U.L.I.E.
BEFORE YOU DIG
1-800-892-0123
HARLEM TWP (T45N- R2E)
SEC. - 15 & 16

JAMES MATTHEW FOX
062-068166
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

THESE PLANS PREPARED BY:
WINNEBAGO COUNTY HIGHWAY DEPARTMENT

APPROVED April 13 20 23
WINNEBAGO COUNTY ENGINEER

PASSED 4/18 20 23
DISTRICT 2 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW 4/18 20 23
DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER

GENERAL NOTES

GENERAL NOTES AND CONDITIONS

The scale shown on the drawings applies only to the full size plans and not reduced size plans.

The Contractor shall field verify the elevations of the benchmarks prior to commencing work. The Contractor shall also field verify location, elevation and size of existing work. The contractor shall field verify horizontal control by referencing shown coordinates to known property lines. Notify the Engineer of discrepancies in either vertical or horizontal control prior to proceeding with work.

CAD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as AutoDesk Civil 3D CAD 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 Project Engineer to request these files.

Where section or subsection monuments are encountered, the Engineer shall be notified before such monuments are removed. The Contract shall protect and carefully preserve all property
.....
authorized surveyor, or agent has been witnessed or otherwise referenced their location.

UTILITIES

Exact horizontal and vertical locations of existing utilities shall be determined by the Contractor at no additional cost to the contract. Locations and depths shown on these plans are only schematic representation.

Abandoned underground utilities that conflict with construction or have the potential for creating future problems shall be disposed of outside the limits of the right-of-way according to Article 202.03 of the standard specifications and as directed by the Engineer. This work will not be paid for separately but shall be considered incidental. No additional compensation will be allowed.

It shall be the Contractor's responsibility to contact the utility owner 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 Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.39 of the Standard Specifications. The phone number for J.U.L.I.E. is 800-892-0123. The utilities located within the project limits or immediately adjacent to the project construction limits are members of J.U.L.I.E.

AT&T
c/o Hector Garcia
2408 8th Avenue
Rockford, IL 61108
(815) 394-7297

City of Loves Park
c/o Nathan Bruck
100 Heart Boulevard
Loves Park, IL 61111
(815) 654-5030

North Park Public Water
c/o Ed Rice
1350 Turret Drive
Machesney Park, IL 61115
(815) 633-5461

Commonwealth Edison
c/o Amir Mahmutagic
123 Energy Avenue
Rockford, IL 61109
(630) 985-4043

Village of Machesney Park
c/o Chris Dopkins
300 Roosevelt Road
Machesney Park, IL 61115
(815) 877-5432

Four Rivers Sanitation Authority
3333 Kishwaukee Street
P.O. Box 7480
Rockford, IL 61109
(815) 387-7400

Comcast
c/o Thomas Yuccas
4450 Kishwaukee Street
Rockford, IL 61109
(224) 229-4614

Frontier Communications
c/o Don Belmore
2239 Newburg Road
Belvidere, IL 61008
(815) 544-6171

Charter Communications
c/o Tom Phillips
1348 Plainfield Avenue
Janesville, WI 53547
(608) 373-7537

Nicor Gas
c/o Bruce Koppang
1844 Ferry Road
Naperville, IL 60563
(630) 388-3046

GRADING, EARTH EXCAVATION, & EMBANKMENT NOTES

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 final top four inches of soil in any right-of-way area disturbed by the Contractor must be a cohesive soil capable of supporting vegetation.

GRADING, EARTH EXCAVATION, & EMBANKMENT NOTES CONT.)

The Contractor shall use care in grading or excavating near any and all existing items which are not indicated to be removed. Any damage done to existing items by the Contractor's operations shall be repaired at no additional expense to the owner.

Special attention is brought to article 202.03 of the standard specification. The contractor shall conduct the earth excavation operation in such a way as to minimize the mixing of clean soil with construction debris. If the contractor chooses to dispose of excess soil, construction and demolition debris, or waste at an IEPA regulated facility, the contractor shall be responsible to perform all necessary testing, documentation, and correspondence to comply with all IEPA requirements. The cost of complying with IEPA requirements shall not be paid for seperately, but shall be considered incidental to the contract. IEPA form LPC 663 (Uncontaminated Soil Certification for P.E.) is in the proposal; based on this certification, no contaminated soil is expected.

PAVING AND DRAINAGE NOTES

The Contractor is responsible for maintaining positive drainage at the conclusion of each working day.

All drainage structures within the project limits shall be delivered to the County without silt, debris or other such obstructions at the time of final inspection. The need for additional cleaning of the structures shall be at the direction of the Engineer. This work shall not be paid for separately, but shall be considered incidental to the contract.

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.

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.

The cost of making storm sewer connections to existing drainage structures shall be included in the various contract unit prices for STORM SEWER.

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

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

All Type A Disabled Ramps must have barrier curbs on the sides of the ramps as shown on Highway Standard 424001. The barrier curbs shall be constructed according to the detail of side curb on Highway Standard 424001.

The Contractor shall place temporary hot-mix asphalt tapers along all sides of the utility structures protruding above the milled surface. The temporary tapers shall extend 2' outside of the castings, except for the approach side to traffic shall have a 4' taper length. Hot-mix asphalt meeting the approval of the Engineer shall be used, no cold millings will be allowed. The cost of the material, placement, maintenance, removal and disposal of said work will be included in the Pay Item for Hot-Mix Asphalt Surface Removal.

Where proposed construction abuts existing appurtenances, a saw cut shall be made to achieve a neat butt joint. Saw cutting shall be done in accordance with the applicable portions of Section 442 of the Standard Specifications and as directed by the Engineer. All saw cutting, including but not limited to, saw cuts for removals, patching, butt joints, and construction staging shall not be paid for separately, but shall be considered as included in the various items for removal.

PAVING AND DRAINAGE NOTES CONT.)

The Contractor shall construct all private driveways and field entrances in accordance with the plans. The Contractor is responsible to maintain access to all existing driveways during all stages of construction.

The Contractor, at his own expense, shall relocate and replace to the satisfaction of the Engineer, all mailboxes in accordance with Article 107.20 of the Standard Specifications. Emergency access, garbage pick-up, and mail service shall be maintained at all times. It will be the contractor's responsibility to notify residents when access to their driveways will be temporarily closed due to curb and gutter and / or driveway replacement. The Contractor shall distribute notices provided by the County to residents. Every effort shall be made to accommodate access to these properties including knocking on doors when driveways are about to be closed.

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

TREE PLANTING NOTES

Tree planting layout shall be performed under the direction of the Engineer. The Contractor shall provide lath at locations identified in the tree schedule and the Engineer shall adjust locations as necessary. 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.

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		TREE
		UTILITY POLE
U/E		UNDERGROUND ELECTRIC LINE
O/U	O/U	OVERHEAD UTILITY LINE
ET		ELECTRIC PEDESTAL
GAS	GAS	GAS LINE
	GV	GAS VALVE
T		TELEPHONE LINE
X		TELEPHONE PEDESTAL
T		TELEPHONE VAULT
WATER LINE		WATER LINE
	WV	WATER VALVE
		FIRE HYDRANT
	SAN	SANITARY MANHOLE
SAN		SANITARY SEWER
		STORM SEWER INLET SPECIAL, 1
		STORM SEWER INLET SPECIAL, 2
SSF		STORM SEWER MANHOLE
		GUARD RAIL
		CONCRETE END SECTION
		METAL END SECTION
PL		PROPERTY LINE
ROW	PR ROW	RIGHT-OF-WAY
		DITCH FLOW
		INLET PROTECTION
	SF	PERIMETER EROSION BARRIER
	TD	TEMPORARY DITCH CHECK
	TR	TEMPORARY ROCK DITCH CHECK
		SIGN
		LUMINAIRE
		SIGNAL POST
		MAST ARM
		HANDHOLE
		HEAVY DUTY HANDHOLE
		DOUBLE HANDHOLE
		SIGNAL CONTROLLER

SUMMARY OF QUANTITIES

CONSTRUCTION CODE: 0028

	ITEM NO.	PAY CODE NUMBER	ITEMS	UNIT	QUANTITIES
*	1	20101700	SUPPLEMENTAL WATERING	UNIT	10.0
	2	20200100	EARTH EXCAVATION	CY	6,294
	3	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CY	500
	4	20800150	TRENCH BACKFILL	CY	84
	5	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SY	1,500
*	6	25000210	SEEDING, CLASS 2A	ACRE	3.49
*	7	25000400	NITROGEN FERTILIZER NUTRIENT	LBS	314
*	8	25000500	PHOSPHORUS FERTILIZER NUTRIENT	LBS	314
*	9	25000600	POTASSIUM FERTILIZER NUTRIENT	LBS	314
*	10	25100125	MULCH, METHOD 3	AC	2.70
*	11	25100630	EROSION CONTROL BLANKET	SY	1,872
*	12	25100635	HEAVY DUTY EROSION CONTROL BLANKET	SY	208
	13	28000200	EARTH EXCAVATION FOR EROSION CONTROL	CY	50
	14	28000250	TEMPORARY EROSION CONTROL SEEDING	LB	349
	15	28000305	TEMPORARY DITCH CHECKS	FT	448
	16	28000315	AGGREGATE DITCH CHECKS	TON	9
	17	28000400	PERIMETER EROSION BARRIER	FT	3,508
	18	28000500	INLET AND PIPE PROTECTION	EA	11
	19	28100705	STONE DUMPED RIPRAP, CLASS A3	SY	88
	20	28200200	FILTER FABRIC	SY	88
	21	35101600	AGGREGATE BASE COURSE, TYPE B 4"	SY	8,333
	22	40600275	BITUMINOUS MATERIALS (PRIME COAT)	LBS	20,263
	23	40600290	BITUMINOUS MATERIALS (TACK COAT)	LBS	591
	24	40600990	TEMPORARY RAMP	SY	246
	25	40604000	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "C", N50	TON	1,082
	26	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	85
	27	42000400	PORTLAND CEMENT CONCRETE PAVEMENT 9"	SY	347
	28	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SF	648
	29	42400800	DETECTABLE WARNINGS	SF	131.2
	30	44000100	PAVEMENT REMOVAL	SY	315
	31	44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SY	704
	32	44000500	COMBINATION CURB AND GUTTER REMOVAL	FT	236
	33	54248510	CONCRETE COLLAR	CY	4.0
	34	55100900	STORM SEWER REMOVAL 18"	FT	8
	35	55101200	STORM SEWER REMOVAL 24"	FT	74
	36	55101400	STORM SEWER REMOVAL 30"	FT	48
	37	54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EA	1
	38	54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EA	1
	39	54214515	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 30"	EA	3
	40	550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FT	72
	41	550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FT	80
	42	550A4300	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 30"	FT	436
	43	60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EA	6
	44	60224005	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 8 GRATE	EA	2
	45	60260100	INLETS TO BE ADJUSTED	EA	1
	46	60262700	INLETS TO BE RECONSTRUCTED	EA	2
	47	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FT	173.0
	48	60920012	PIPE CULVERTS TO BE CLEANED 12"	FT	365
	49	60920018	PIPE CULVERTS TO BE CLEANED 18"	FT	76
	50	60920030	PIPE CULVERTS TO BE CLEANED 30"	FT	470
*	51	63500105	DELINEATORS	EA	22
	52	64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FT	1,750.0
	53	67100100	MOBILIZATION	LSUM	1
*	54	72000100	SIGN PANEL - TYPE 1	SF	61.0
*	55	72900100	METAL POST - TYPE A	FT	154.0
*	56	72900200	METAL POST - TYPE B	FT	44.0
*	57	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FT	1,552.0
*	58	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FT	20.0
*	59	78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SF	15.6
*	60	78001110	PAINT PAVEMENT MARKING - LINE 4"	FT	171.0
*	61	78001130	PAINT PAVEMENT MARKING - LINE 6"	FT	511.0
*	62	78001140	PAINT PAVEMENT MARKING - LINE 8"	FT	37.0
*	63	78001150	PAINT PAVEMENT MARKING - LINE 12"	FT	1,351.0
*	64	78001180	PAINT PAVEMENT MARKING - LINE 24"	FT	128.0
*	65	78300201	PAVEMENT MARKING REMOVAL - GRINDING	SF	100.0

* SPECIALTY ITEMS

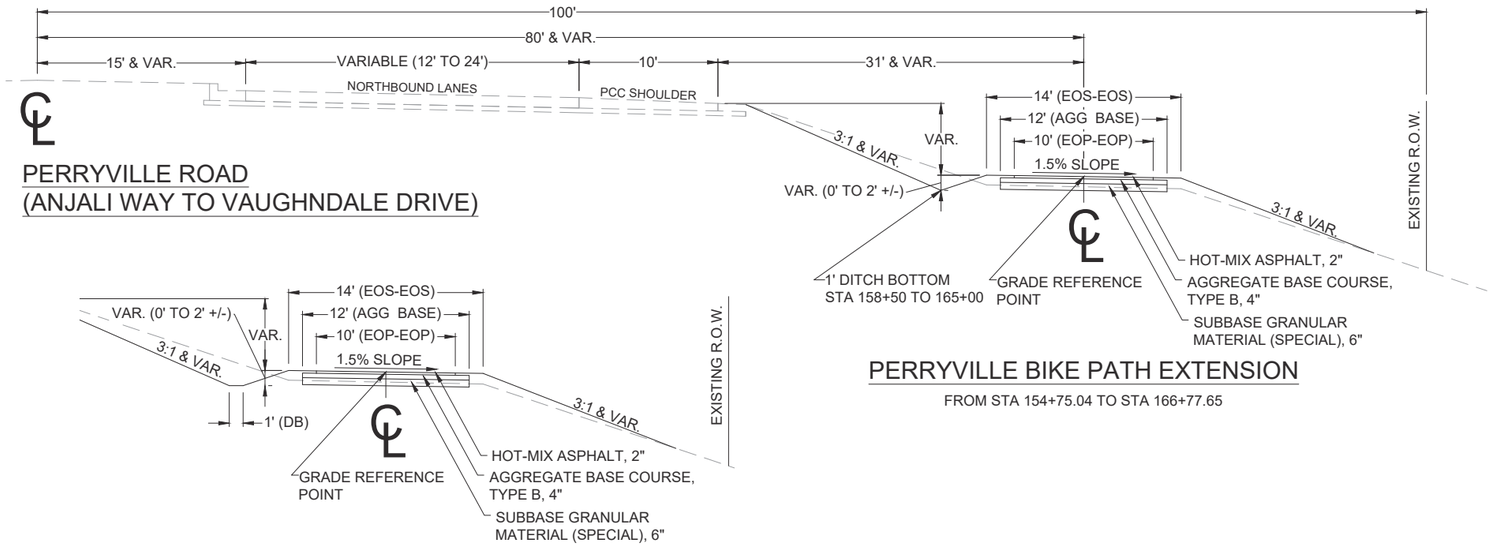
	ITEM NO.	PAY CODE NUMBER	ITEMS	UNIT	QUANTITIES
*	66	81028360	UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.	FT	120.0
*	67	81400700	HANDHOLE, PORTLAND CEMENT CONCRETE	EA	8
*	68	A2002916	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EA	5
*	69	A2006416	TREE, QUERCUS ALBA (WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EA	8
*	70	A2007116	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED	EA	8
	71	X5427602	REMOVE EXISTING FLARED END SECTION	EA	5
	72	X2111100	TOPSOIL EXCAVATION AND PLACEMENT, SPECIAL	CY	1,877
	73	X3112900	SUBBASE GRANULAR MATERIAL (SPECIAL)	CY	2,074
	74	X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SF	180
	75	X6013600	PIPE UNDERDRAINS 4" (MODIFIED)	FT	2,035
	76	X7010216	TRAFFIC CONTROL & PROTECTION SPECIAL	LSUM	1
	77	Z0013796	CONSTRUCTION LAYOUT	LSUM	1
*	78	Z0033039	DISCONNECT AND RECONNECT ELECTRIC SERVICE	EA	4

* SPECIALTY ITEMS

CONTRACT: 85741

WINNEBAGO COUNTY ILLINOIS	ROUTE	SECTION	SHEET
	11	21-0633-01-BT	04 of 52

Perryville Bike Path – Typical Sections



PERRYVILLE ROAD
(ANJALI WAY TO VAUGHNDALE DRIVE)

PERRYVILLE BIKE PATH EXTENSION

FROM STA 154+75.04 TO STA 166+77.65

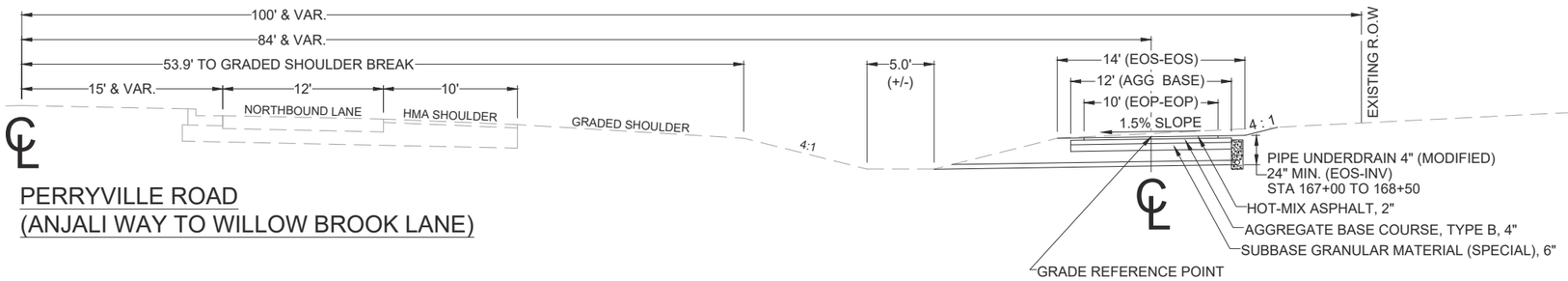
PERRYVILLE BIKE PATH EXTENSION

FROM STA 158+50 TO STA 165+00 (1' DITCH BOTTOM LT)

HMA MIXTURE CHART

LOCATION:	BIKE PATH
MIXTURE USES:	SURFACE
PG:	PG 58-28
DESIGN AIR VOIDS:	4.0% @ N50
MIXTURE COMPOSITION:	IL-9.5FG
FRICTION AGGREGATE:	MIX C
MIX WEIGHT:	112 LBS / SY / IN
QUALITY MANAGEMENT PROGRAM:	QC / QA
SUBLOT SIZE:	N/A
MATERIAL TRANSFER DEVICE:	N/A

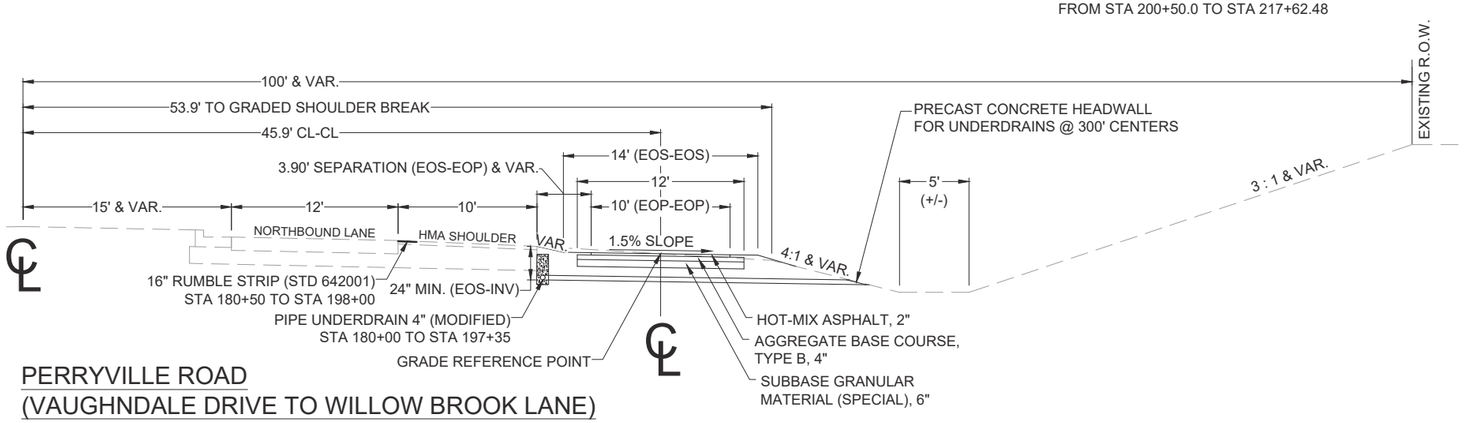
NOTE: THE FINAL TOP FOUR INCHES OF SOIL IN ANY AREA DISTURBED BY THE CONTRACTOR MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION. SEE SPECIAL PROVISIONS FOR TOPSOIL EXCAVATION AND PLACEMENT, SPECIAL.



PERRYVILLE ROAD
(ANJALI WAY TO WILLOW BROOK LANE)

PERRYVILLE BIKE PATH EXTENSION

FROM STA 166+77.65 TO STA 178+57.65
FROM STA 200+50.0 TO STA 217+62.48



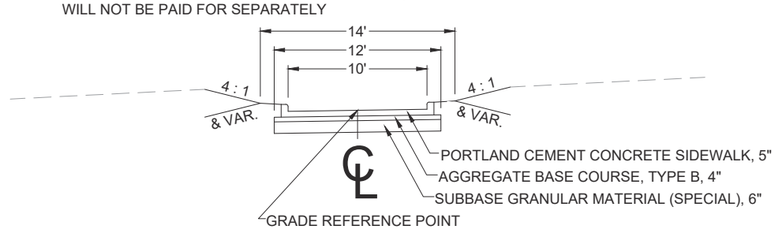
PERRYVILLE ROAD
(VAUGHNDALE DRIVE TO WILLOW BROOK LANE)

PERRYVILLE BIKE PATH EXTENSION

FROM STA 179+41.04 TO STA 200+50.0

NOTE: ADA RAMPS WILL BE CONSTRUCTED PER THE APPLICABLE IDOT STANDARD DRAWINGS & AS DETAILED IN THIS PLAN

NOTE: CURBS AT ADA RAMPS WILL BE MEASURED AND INCLUDED IN THE AREA OF THE PCC SIDEWALK, 5" AND WILL NOT BE PAID FOR SEPARATELY



PERRYVILLE BIKE PATH ADA RAMP DETAIL

TYPICAL SECTION

SCHEDULE OF QUANTITIES

20800150 - TRENCH BACKFILL

PERRYVILLE PATH

STA	O/S	TRENCH BACKFILL (CY)
155+21 to 155+75	Lt & Rt	10.0
155+21 to 156+04	Lt & Rt	21.3
177+92 to 178+50	Lt	16.2
197+34 to 198+85	Lt & Rt	36.6
216+34 to 217+13	Lt	0.0
Total		*84.1*

Note: A quantity of 500 CY for REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL has been provided for use between STA 153+34 & 218+72. Also, a quantity of 1,500 SY for GEOTECHNICAL FABRIC FOR GROUND STABILIZATION has been provided. The Engineer will determine in the field where these items are necessary.

25000210 - SEEDING, CLASS 2A

PERRYVILLE PATH

STA	O/S	SEEDING CL 2A (AC)
154+64 to 178+67	Lt	1.11
154+64 to 178+67	Rt	0.40
179+31 to 217+73	Lt	0.77
179+31 to 217+74	Rt	1.21
Total		*3.49*

Note: Fertilizers have been estimated using an application rate of 90 LBS / Ac. See the Landscaping Plan details for MULCH, METHOD 3 locations.

25100630 - EROSION CONTROL BLANKET

PERRYVILLE PATH

STA	O/S	EROS CONTR BLANK (SY)
154+64 to 178+67	Rt	1915.0
209+71 to 217+74	Lt	1065.0
209+71 to 217+75	Rt	807.0
Total		*1,872.0*

25100635 - HEAVY DUTY EROSION CONTROL BLANKET

PERRYVILLE PATH

STA	O/S	HD EROS CONTR BLANKET (SY)
156+61 to 157+33	Lt	54.0
200+50 to 202+00	Lt	99.0
215+50 to 216+34	Lt	55.0
Total		*208.0*

Note: A quantity of 50 CY for EARTH EXCAVATION FOR EROSION CONTROL has been provided to address the removal of silt at and around erosion control devices, such as ditch checks and inlet and pipe protection from STA 153+34 to 218+72. The Engineer will determine in the field where this item is necessary.

28000250 - TEMPORARY EROSION CONTROL SEEDING

PERRYVILLE PATH

STA	TEMP EROS CONTR SEED (LB)
154+64 to 178+67	151.0
179+31 to 217+73	198.0
Total	*349.0*

28000305 - TEMPORARY DITCH CHECKS

PERRYVILLE PATH

STA	O/S	TEMP DITCH CHECKS (FT)
154+64 to 178+67	Lt	184.0
154+64 to 178+67	Rt	0.0
179+31 to 217+73	Lt	72.0
179+31 to 217+74	Rt	192.0
Total		*448.0*

28000315 - AGGREGATE DITCH CHECKS

PERRYVILLE PATH

STA	O/S	AGG DITCH CHECKS (TON)
153+34 to 218+72	Both	9.0
Total		*9.0*

28000400 - PERIMETER EROSION BARRIER

PERRYVILLE PATH

STA	O/S	PERIMETER EROS BAR (FT)
155+01 to 166+00	Rt	1,098.0
156+50 to 167+00	Lt	1,047.0
193+00 to 197+00	Rt	406.0
207+00 to 216+50	Rt	957.0
Total		*3,508.0*

28000500 - INLET AND PIPE PROTECTION

PERRYVILLE PATH

STA	INLET & PIPE PROTECT (EA)
155+22	1.00
155+75	1.00
156+50	1.00
177+74	1.00
186+69	1.00
192+80	1.00
197+35	1.00
200+50	1.00
215+29	1.00
216+35	1.00
217+08	1.00
Total	*11.00*

28100705 - STONE DUMPED RIPRAP, CLASS A3

PERRYVILLE PATH

STA	O/S	STONE DUMP RIP CL A3 (SY)
156+48 to 156+61	Lt	19.1
177+64 to 177+75	Lt	12.2
197+19 to 197+29	Rt	16.7
200+50 to 200+59	Lt	30.0
216+25 to 216+34	Lt	10.3
Total		*88.3*

28200200 - FILTER FABRIC

PERRYVILLE PATH

STA	O/S	FILTER FABRIC (SY)
156+48 to 156+61	Lt	19.1
177+64 to 177+75	Lt	12.2
197+19 to 197+29	Rt	16.7
200+50 to 200+59	Lt	30.0
216+25 to 216+34	Lt	10.3
Total		*88.3*

Note: Filter fabric shall be used under all rip-rap locations

35101600 - AGGREGATE BASE COURSE, TYPE B 4"

PERRYVILLE PATH

STA	AGG BASE CSE B 4 (SY)
154+75 to 178+57	3,207.3
179+41 to 217+62	5,126.0
Total	*8,333.2*

X3112900 - SUBBASE GRANULAR MATERIAL (SPECIAL)

PERRYVILLE PATH

STA	SUB GRAN MAT SPL (CY)
154+75 to 178+57	534.5
179+41 to 217+62	854.3
Contingency for Undercut	685.2
Total	*2,074.1*

40600990 - TEMPORARY RAMP

PERRYVILLE PATH

STA	O/S	TYPE	TEMPORARY RAMP (SY)
178+34 to 179+95 (Vaughndale Drive)	Rt	Side Street	116.7
217+79 to 218+45 (Willow Brook Lane)	Rt	Side Street	129.5
Total			*246.2*

40604000 - HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "C", N50

PERRYVILLE PATH

STA	HMA SC IL-9.5FG C N50 (TON)
154+75 to 178+57	317.6
179+41 to 217+62	764.2
Total	*1,081.8*

40800050 - INCIDENTAL BITUMINOUS SURFACING (TONS)

PERRYVILLE PATH

STA	O/S	TYPE	INCIDENTAL BIT SURF (TON)
178+34 to 179+95 (Vaughndale Drive Intersection)	Rt	Side Street	49.2
217+38 to 218+81 (Willow Brook Lane Intersection)	Rt	Side Street	35.3
Total			*84.5*

42000400 - PORTLAND CEMENT CONCRETE PAVEMENT 9"

PERRYVILLE PATH

STA	PCC PVT 9 (SY)
154+18 to 155+23 (Anjali Way)	347.0
Total	*347.0*

Note: Dowel bars and tie bars will not be paid for separately but are included in the PORTLAND CEMENT CONCRETE PAVEMENT, 9"

40600275 - BITUMINOUS MATERIALS (PRIME COAT)

PERRYVILLE PATH

STA	AREA (SY)	AREA (SF)	RATE (GAL/SY)	DENSITY (LB/GAL)	NUMBER APPLICATIONS	BIT MATLS PR CT (GAL)	BIT MATLS PR CT (LBS)	BIT MATLS PR CT (TONS)
154+75 to 178+57	2,646.67	23,820.0	0.35	8.40	1	926.3	7,781.2	3.9
179+41 to 217+62	4,245.56	38,210.0	0.35	8.40	1	1,485.9	12,481.9	6.2
Total		*62,030.0*				*2,412.3*	*20,263.1*	*10.1*

40600290 - BITUMINOUS MATERIALS (TACK COAT)

PERRYVILLE PATH

STA	AREA (SY)	AREA (SF)	RATE (GAL/SY)	DENSITY (LB/GAL)	NUMBER APPLICATIONS	BIT MATLS PR CT (GAL)	BIT MATLS PR CT (LBS)	BIT MATLS PR CT (TONS)
178+34 to 179+95 (Vaughndale Drive Intersection)	410.00	3,690.00	0.10	8.40	1	41.0	344.4	0.2
217+38 to 218+81 (Willow Brook Lane Intersection)	294.00	2,646.00	0.10	8.40	1	29.4	247.0	0.1
Total		*6,336.0*				*70.4*	*591.4*	*0.3*

42400200 - PORTLAND CEMENT CONCRETE SIDEWALK 5"

PERRYVILLE PATH

STA	PC CONC SIDEWALK 5 (SF)
154+58 to 154+75 (Anjali Way)	131.8
178+57 to 178+68 (Vaughndale Drive)	100.4
179+28 to 179+41 (Vaughndale Drive)	110.1
217+62 to 217+76 (Willow Brook Lane)	118.7
218+48 to 218+72 (Willow Brook Lane)	186.5
Total	*647.5*

42400800 - DETECTABLE WARNINGS

PERRYVILLE PATH

STA	DETECTABLE WARNINGS (SF)
154+58 to 154+75 (Anjali Way)	28.4
178+57 to 178+68 (Vaughndale Drive)	21.3
179+28 to 179+41 (Vaughndale Drive)	22.4
217+62 to 217+76 (Willow Brook Lane)	23.7
218+48 to 218+72 (Willow Brook Lane)	35.4
Total	*131.2*

44000100 - PAVEMENT REMOVAL

PERRYVILLE PATH

STA	O/S	PAVEMENT REM (SY)
154+18 to 155+23 (Anjali Way)	Both	315.0
Total		*315.0*

44000157 - HOT-MIX ASPHALT SURFACE REMOVAL - 2" (SY)

PERRYVILLE PATH

STA	HMA SURF REM 2" (SY)
178+34 to 179+95 (Vaughndale Drive)	410.0
217+79 to 218+45 (Willow Brook Lane)	294.0
Total	*704.0*

44000500 - COMBINATION CURB AND GUTTER REMOVAL

PERRYVILLE PATH

STA	O/S	COMB CURB GUTTER REM (FT)
154+19 to 154+37 (Anjali Way Corner Island)	Both	56.0
154+42 to 155+24 (Anjali Way)	Both	109.0
178+67 to 178+71 (Vaughndale Drive)	Both	15.0
179+26 to 179+32 (Vaughndale Drive)	Both	15.0
217+72 to 217+79 (Willow Brook Lane)	Both	17.0
218+45 to 218+62 (Willow Brook Lane)	Both	24.0
Total		*236.0*

54248510 - CONCRETE COLLAR

PERRYVILLE ROAD

STA	O/S	CONCRETE COLLAR (CY)
178+50	Rt	4.0
Total		*4.0*

SCHEDULE OF QUANTITIES

55100900 - STORM SEWER REMOVAL 18"

PERRYVILLE PATH

STA	O/S	STORM SEWER REM 18 (FT)
215+29	Lt	8.0
Total		***8.0***

55101200 - STORM SEWER REMOVAL 24"

PERRYVILLE PATH

STA	O/S	STORM SEWER REM 24 (FT)
216+34 to 217+13	Lt	74.0
Total		***74.0***

55101400 - STORM SEWER REMOVAL 30"

PERRYVILLE PATH

STA	O/S	STORM SEWER REM 30 (FT)
155+21 to 155+69	Lt & Rt	48.0
Total		***48.0***

54213669 - PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"

PERRYVILLE PATH

STA	O/S	PRC FLAR END SEC 24 (EA)
216+34	Lt	1.0
Total		***1.0***

54213675 - PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"

PERRYVILLE PATH

STA	O/S	PRC FLAR END SEC 30 (EA)
177+74	Lt	1.0
Total		***1.0***

54214515 - PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 30"

PERRYVILLE PATH

STA	O/S	PRC FL END S EQRS 30 (EA)
156+50	Lt	1.0
197+34	Rt	1.0
200+49	Lt	1.0
Total		***3.0***

550A0120 - STORM SEWERS, CLASS A, TYPE 1 24"

PERRYVILLE PATH

STA	O/S	STORM SEW CL A 1 24 (FT)
216+34 to 217+13	Lt	72.0
Total		***72.0***

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

PERRYVILLE PATH

STA	O/S	STORM SEW CL A 1 30 (FT)
177+74 to 178+50	Lt	80.0
Total		***80.0***

550A4300 - STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 30"

PERRYVILLE PATH

STA	O/S	SS CL A 1 EQRS 30 (FT)
155+21 to 155+75	Lt	57.0
155+75 to 156+44	Lt	67.0
197+34 to 200+49	Lt & Rt	312.0
Total		***436.0***

X6013600 - PIPE UNDERDRAINS 4" (MODIFIED)

PERRYVILLE PATH

STA	O/S	PIPE UNDERDRAIN 4" MOD (FT)
167+00 to 168+50	Rt	170.0
180+00 to 197+35	Lt	1,865.0
Total		***2035.0***

60100060 - CONCRETE HEADWALLS FOR PIPE DRAINS

PERRYVILLE PATH

STA	O/S	CONC HDWL FOR P DRAIN (EA)
168+50	Lt	1.0
183+00	Rt	1.0
186+00	Rt	1.0
189+00	Rt	1.0
192+00	Rt	1.0
195+00	Rt	1.0
Total		***6.0***

60224005 - MANHOLES, TYPE A, 6'-DIAMETER, TYPE 8 GRATE

PERRYVILLE PATH

STA	O/S	MAN TA 6 DIA T8G (EA)
155+75	Lt	1.0
197+34	Rt	1.0
Total		***2.0***

60260100 - INLETS TO BE ADJUSTED

PERRYVILLE PATH

STA	O/S	INLETS ADJUST (EA)
179+57	Lt	1.0
Total		***1.0***

60262700 - INLETS TO BE RECONSTRUCTED

PERRYVILLE PATH

STA	O/S	INLETS RECONST (EA)
155+21	Rt	1.0
217+13	Lt	1.0
Total		***2.0***

Note: A quantity for PIPE CULVERTS TO BE CLEANED of the size specified has been provided to remove silt in existing storm sewer and pipe culverts from STA 153+34 to 218+72.

60605000 - COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24

PERRYVILLE PATH

STA	O/S	CCC&G TB6.24 (FT)
154+41 to 155+23 (Anjali Way)	Lt & Rt	110.0
178+66 to 178+71 (Vaughndale Drive)	Lt & Rt	13.0
179+25 to 179+31 (Vaughndale Drive)	Lt & Rt	13.0
217+71 to 217+79 (Willow Brook Lane)	Lt & Rt	14.0
218+44 to 218+62 (Willow Brook Lane)	Lt & Rt	23.0
Total		***173.0***

63500105 - DELINEATORS

PERRYVILLE PATH

STA	O/S	OBJECT TO DELINEATE	DELINEATORS (EA)
156+50	Lt	PRC FLAR END SEC 30	1
157+72	Lt	BACK OF CURB	1
166+72	Lt	BACK OF CURB	1
167+00	Lt	CONC HDWL FOR P DRAIN	1
168+50	Lt	CONC HDWL FOR P DRAIN	1
177+74	Lt	PRC FLAR END SEC 30	1
183+00	Rt	CONC HDWL FOR P DRAIN	1
186+00	Rt	CONC HDWL FOR P DRAIN	1
186+68	Rt	PRC FLAR END SEC 30	1
186+68	Rt	PRC FLAR END SEC 30	1
189+00	Rt	CONC HDWL FOR P DRAIN	1
192+00	Rt	CONC HDWL FOR P DRAIN	1
192+80	Rt	PRC FLAR END SEC 30	1
194+40	Rt	PRC FLAR END SEC 60	1
194+50	Rt	PRC FLAR END SEC 60	1
195+00	Rt	CONC HDWL FOR P DRAIN	1
197+35	Rt	INLET / MANHOLE	1
200+50	Lt	PRC FL END S EQRS 30	1
215+29	Lt	PRC FLAR END SEC 18	1
216+34	Lt	PRC FLAR END SEC 24	1
217+08	Rt	PRC FLAR END SEC 12	1
217+13	Lt	INLET / MANHOLE	1
Total			***22.0***

SIGN PANELS & POSTS

PERRYVILLE PATH

			72000100	72900100	72900200
STA	**O/S**	**SIGN PANEL**	**SIGN PANEL T1 (SF)**	**METAL POST TY A (FT)**	**METAL POST TY B (FT)**
154+50.8	Rt	R1-5b (36" x 36") - Stop Here for Peds	9	22	
154+76.0	Lt	R1-1 (18" x 18") - Stop	2.25	11	
155+00.0	Rt	R5-3 (24" x 24") - No Motor Vehicles	4		11
166+77.7	Lt	W7-5 (18" x 18") - Hill	2.25	11	
178+36.0	Lt	R5-3 (24" x 24") - No Motor Vehicles	4		11
178+56.7	Rt	R1-1 (18" x 18") - Stop	2.25	11	
179+31.4	Rt	R1-5b (36" x 36") - Stop Here for Peds	9	22	
179+42.1	Lt	R1-1 (18" x 18") - Stop	2.25	11	
179+65.4	Rt	R5-3 (24" x 24") - No Motor Vehicles	4		11
180+50.0	Rt	W7-5 (18" x 18") - Hill	2.25	11	
207+11.0	Rt	W7-5 (18" x 18") - Hill	2.25	11	
207+11.0	Rt	W7-5 (18" x 18") - Hill	2.25	11	
217+50.0	Lt	R5-3 (24" x 24") - No Motor Vehicles	4		11
217+61.5	Rt	R1-1 (18" x 18") - Stop	2.25	11	
218+44.6	Rt	R1-5b (36" x 36") - Stop Here for Peds	9	22	
Total			***61.0***	***154.0***	***44.0***

78000200 - THERMOPLASTIC PAVEMENT MARKING - LINE 4"

PERRYVILLE PATH

STA	THPL PVT MK LINE 4 (FT)
WHITE:	
YELLOW:	
154+75 to 178+58 (Path from Anjali to Vaughndale)	596.0
179+41 to 217+62 (Path from Vaughndale to WBL)	956.0
Total	***1,552.0***

78000600 - THERMOPLASTIC PAVEMENT MARKING - LINE 12"

PERRYVILLE PATH

STA	THPL PVT MK LINE 12 (FT)
WHITE:	
154+75	5.0
178+58	5.0
179+41	5.0
217+62	5.0
YELLOW:	
Total	***20.0***

78001100 - PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS

PERRYVILLE PATH

STA	PAINT PVT MK LTR & SYM (SF)
Contingency	15.6
Total	***15.6***

78001110 - PAINT PAVEMENT MARKING - LINE 4"

PERRYVILLE PATH

STA	PAINT PVT MK LINE 4 (FT)
WHITE:	
Anjali Way Intersection	110.0
Vaughndale Drive Intersection	
YELLOW:	
Anjali Way Intersection	43.0
Vaughndale Drive Intersection	18.0
Total	***171.0***

78001130 - PAINT PAVEMENT MARKING - LINE 6"

PERRYVILLE PATH

STA	PAINT PVT MK LINE 6 (FT)
WHITE:	
Anjali Way Intersection	241.0
Vaughndale Drive Intersection	118.0
Willow Brook Lane Intersection	152.0
YELLOW:	
Total	***511.0***

78001140 - PAINT PAVEMENT MARKING - LINE 8"

PERRYVILLE PATH

STA	PAINT PVT MK LINE 8 (FT)
WHITE:	
Anjali Way Intersection	37.0
YELLOW:	
Total	***37.0***

SCHEDULE OF QUANTITIES

78001150 - PAINT PAVEMENT MARKING - LINE 12"

PERRYVILLE PATH

STA	PAINT PVT MK LINE 12 (FT)
WHITE:	
Anjali Way Intersection	656.0
Vaughndale Drive Intersection	325.0
Willow Brook Lane Intersection	370.0
YELLOW:	
Total	***1,351.0***

78001180 - PAINT PAVEMENT MARKING - LINE 24"

PERRYVILLE PATH

STA	PAINT PVT MK LINE 24 (FT)
WHITE:	
Anjali Way Intersection	66.0
Vaughndale Drive Intersection	26.0
Willow Brook Lane Intersection	36.0
YELLOW:	
Total	***128.0***

Note: A quantity of 100 SF of PAVEMENT MARKING REMOVAL - GRINDING for the removal of any existing pavement markings conflicting with the proposed pavement markings between STA 153+34 to 218+72. The Engineer will determine in the field locations where this item is to be used.

TREE PLANTING SCHEDULE

PERRYVILLE PATH		A2007116	A2006416	A2002916
STA	**O/S**	**T-QUERCUS RUBRA 2 (EA)**	**T-QUERCUS ALBA 2 (EA)**	**T-CELTIS OCCID 2 (EA)**
Perryville Road (Landscaped Median)		Red Oak	White Oak	Common Hackberry
186+22	46' Lt	1		
187+23	46' Lt		1	
188+72	46' Lt	1		
189+23	46' Lt			1
189+72	46' Lt		1	
191+22	46' Lt	1		
192+21	46' Lt		1	
193+72	46' Lt	1		
194+71	46' Lt		1	
196+22	47' Lt	1		
197+67	53' Lt		1	
199+69	80' Lt		1	
201+25	94' Lt	1		
204+39	107' Lt			1
205+43	108' Lt			1
205+95	109' Lt			1
206+46	109' Lt	1		
206+99	109' Lt			1
207+50	108' Lt		1	
209+05	107' Lt	1		
210+08	104' Lt		1	
Total		***8.0***	***8.0***	***5.0***

X5427602 - REMOVE EXISTING FLARED END SECTION

PERRYVILLE PATH

STA	O/S	REMOV EX FLAR END SEC (EA)
155+69	Lt	1.0
178+50	Lt	1.0
197+35	Rt	1.0
215+29	Lt	1.0
216+34	Lt	1.0
Total		***5.0***

X2111100 - TOPSOIL EXCAVATION AND PLACEMENT, SPECIAL

PERRYVILLE PATH

STA	**O/S**	**TOPSOIL EXC & PLAC SP (CY)**
154+64 to 178+67	Lt	596.9
154+64 to 178+67	Rt	215.1
179+31 to 217+73	Lt	414.1
179+31 to 217+74	Rt	650.7
Total		***1,876.8***

Note: TOPSOIL EXCAVATION AND PLACEMENT, SPECIAL has been estimated by using a 4" depth over the area to be seeded (3.49 Ac x 43,560 SF/Ac x 4" x 1 FT / 12 IN x 1 CY / 27 CF = 1,876.8 CY).

X4402020 - CONCRETE MEDIAN SURFACE REMOVAL

PERRYVILLE PATH

STA	O/S	CONC MEDIAN SURF REM (SF)
154+21 to 154+34 (Anjali Way Corner Island)	Lt	180.0
Total		**180.0**

Note: A quantity of 4 EA of DISCONNECT AND RECONNECT ELECTRIC SERVICE and a quantity of 8 EA of HANDHOLE, PORTLAND CEMENT CONCRETE and a quantity of 120 FT of UNDERGROUND CONDUIT, PVC, 2 $\frac{1}{2}$" DIA. have been provided to resolve a possible conflict with the electrical service for the signals at Anjali Way and at Vaughndale Drive. See special provisions for details.

Line Table: Perryville Path Centerline Alignment
(Anjali Way to Vaughndale Drive)

Line #	Begin STA	End STA	Length	Direction	Start Point	End Point
PERRYVILLE PATH CL LINE13	153+34.52	154+21.88	87.36	N30° 32' 19.48"E	(2,609,814.84, 2,079,368.07)	(2,609,859.23, 2,079,443.31)
PERRYVILLE PATH CL LINE15	156+92.23	159+20.62	228.38	N38° 37' 40.15"E	(2,610,038.67, 2,079,643.99)	(2,610,181.24, 2,079,822.41)
PERRYVILLE PATH CL LINE16	164+20.75	165+97.03	176.28	N40° 20' 50.24"E	(2,610,487.71, 2,080,217.51)	(2,610,601.84, 2,080,351.86)
PERRYVILLE PATH CL LINE17	167+26.14	176+05.74	879.60	N38° 37' 40.15"E	(2,610,683.93, 2,080,451.49)	(2,611,233.03, 2,081,138.66)
PERRYVILLE PATH CL LINE18	177+53.40	177+70.51	17.11	N24° 56' 50.85"E	(2,611,318.21, 2,081,258.86)	(2,611,325.42, 2,081,274.37)
PERRYVILLE PATH CL LINE19	178+35.96	179+30.65	94.69	N39° 56' 50.85"E	(2,611,360.44, 2,081,329.45)	(2,611,421.24, 2,081,402.04)

Curve Table: Perryville Path Centerline Alignment
(Anjali Way to Vaughndale Drive)

Curve #	PC STA	PT STA	PI STA	Delta Angle	Radius	Length	Tangent	Chord Direction	Start Point	End Point
PERRYVILLE PATH CL CURVE19	154+21.88	155+92.35	155+07.95	19°32'05"	500.00	170.47	86.072	N40° 18' 22.09"E	(2,609,859.23, 2,079,443.31)	(2,609,968.97, 2,079,572.69)
PERRYVILLE PATH CL CURVE20	155+92.35	156+92.23	156+42.46	11°26'45"	500.00	99.88	50.108	N44° 21' 02.43"E	(2,609,968.97, 2,079,572.69)	(2,610,038.67, 2,079,643.99)
PERRYVILLE PATH CL CURVE21	159+20.62	161+10.66	160+15.66	2°43'20"	4,000.00	190.05	95.041	N37° 16' 00.18"E	(2,610,181.24, 2,079,822.41)	(2,610,296.31, 2,079,973.64)
PERRYVILLE PATH CL CURVE22	161+10.66	164+20.75	162+65.78	4°26'30"	4,000.00	310.09	155.121	N38° 07' 35.22"E	(2,610,296.31, 2,079,973.64)	(2,610,487.71, 2,080,217.51)
PERRYVILLE PATH CL CURVE23	165+97.03	167+26.14	166+61.59	1°43'10"	4,302.04	129.11	64.558	N39° 29' 15.20"E	(2,610,601.84, 2,080,351.86)	(2,610,683.93, 2,080,451.49)
PERRYVILLE PATH CL CURVE24	176+05.74	177+01.70	176+53.72	1°49'58"	3,000.00	95.96	47.984	N37° 42' 41.29"E	(2,611,233.03, 2,081,138.66)	(2,611,291.73, 2,081,214.57)
PERRYVILLE PATH CL CURVE25	177+01.70	177+53.40	177+27.64	11°50'52"	250.00	51.70	25.940	N30° 52' 16.63"E	(2,611,291.73, 2,081,214.57)	(2,611,318.21, 2,081,258.86)
PERRYVILLE PATH CL CURVE26	177+70.51	178+35.96	178+03.42	15°00'00"	250.00	65.45	32.913	N32° 26' 50.85"E	(2,611,325.42, 2,081,274.37)	(2,611,360.44, 2,081,329.45)

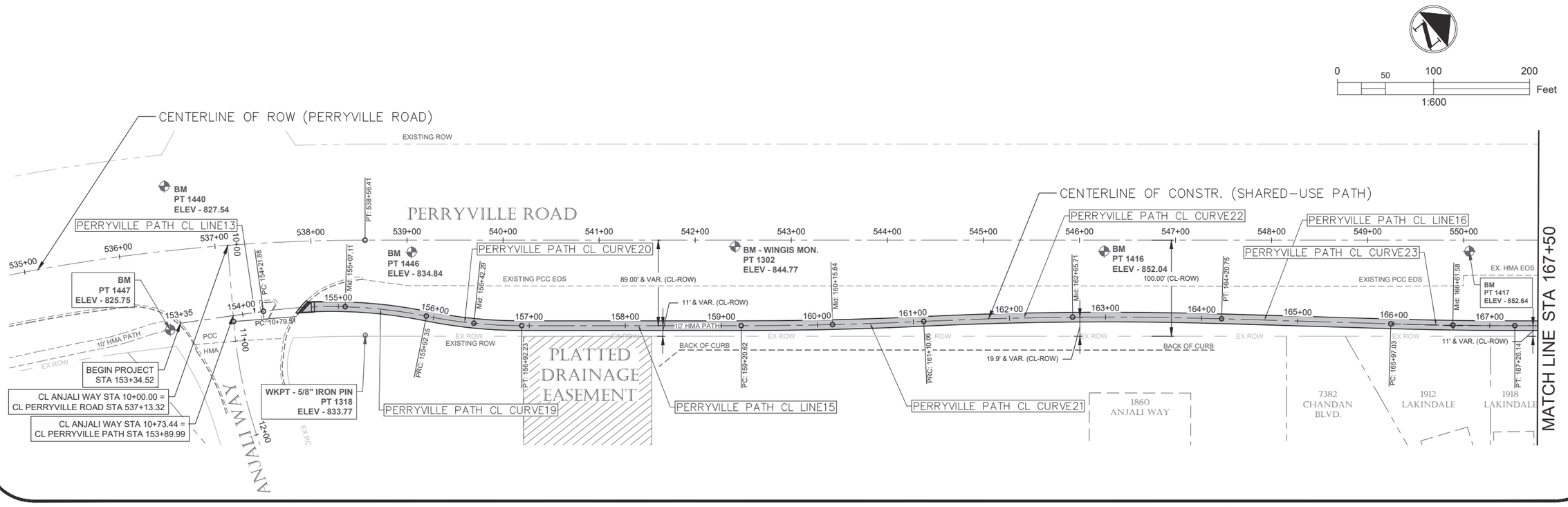
SEE PAGE 11 OF 52 FOR CONTROL POINT COORDINATES

Line Table: Perryville Path Centerline Alignment
(Vaughndale Drive to Willow Brook Lane)

Line #	Begin STA	End STA	Length	Direction	Start Point	End Point
PERRYVILLE PATH CL LINE20	179+30.90	179+38.62	7.72	N39° 56' 50.85"E	(2,611,421.24, 2,081,402.04)	(2,611,426.20, 2,081,407.96)
PERRYVILLE PATH CL LINE21	180+50.46	181+12.36	61.90	N29° 16' 01.27"E	(2,611,489.63, 2,081,499.88)	(2,611,519.89, 2,081,553.88)
PERRYVILLE PATH CL LINE22	182+10.38	195+91.33	1,380.95	N38° 37' 40.07"E	(2,611,574.57, 2,081,635.10)	(2,612,436.63, 2,082,713.92)
PERRYVILLE PATH CL LINE23	217+28.13	218+53.61	125.47	N0° 18' 48.65"W	(2,613,278.89, 2,084,612.73)	(2,613,278.20, 2,084,738.20)

Curve Table: Perryville Path Centerline Alignment
(Vaughndale Drive to Willow Brook Lane)

Curve #	PC STA	PT STA	PI STA	Delta Angle	Radius	Length	Tangent	Chord Direction	Start Point	End Point
PERRYVILLE PATH CL CURVE27	179+38.62	180+50.46	179+94.70	10°40'50"	600.00	111.85	56.085	N34° 36' 26.06"E	(2,611,426.20, 2,081,407.96)	(2,611,489.63, 2,081,499.88)
PERRYVILLE PATH CL CURVE28	181+12.36	182+10.38	181+61.48	9°21'39"	600.00	98.03	49.122	N33° 56' 50.67"E	(2,611,519.89, 2,081,553.88)	(2,611,574.57, 2,081,635.10)
PERRYVILLE PATH CL CURVE29	195+91.33	198+31.67	197+11.64	6°53'06"	2,000.00	240.34	120.313	N42° 04' 13.30"E	(2,612,436.63, 2,082,713.92)	(2,612,597.57, 2,082,892.22)
PERRYVILLE PATH CL CURVE30	198+31.67	203+38.81	200+86.77	15°22'37"	1,889.65	507.14	255.103	N37° 49' 28.11"E	(2,612,597.57, 2,082,892.22)	(2,612,907.64, 2,083,291.61)
PERRYVILLE PATH CL CURVE31	203+38.81	215+68.21	209+63.14	24°37'02"	2,861.38	1,229.40	624.334	N17° 49' 38.55"E	(2,612,907.64, 2,083,291.61)	(2,613,281.13, 2,084,452.99)
PERRYVILLE PATH CL CURVE32	215+68.21	216+55.45	216+11.94	9°59'49"	500.00	87.24	43.731	N0° 31' 12.90"E	(2,613,281.13, 2,084,452.99)	(2,613,281.92, 2,084,540.12)
PERRYVILLE PATH CL CURVE33	216+55.45	217+28.13	216+91.81	4°09'53"	1,000.00	72.69	36.360	N2° 23' 45.12"W	(2,613,281.92, 2,084,540.12)	(2,613,278.89, 2,084,612.73)



CENTERLINE ALIGNMENT CONTROL

CONTRACT: 85741

WINNEBAGO COUNTY ILLINOIS	ROUTE	SECTION	SHEET
	11	21-00633-01-BT	09 OF 52

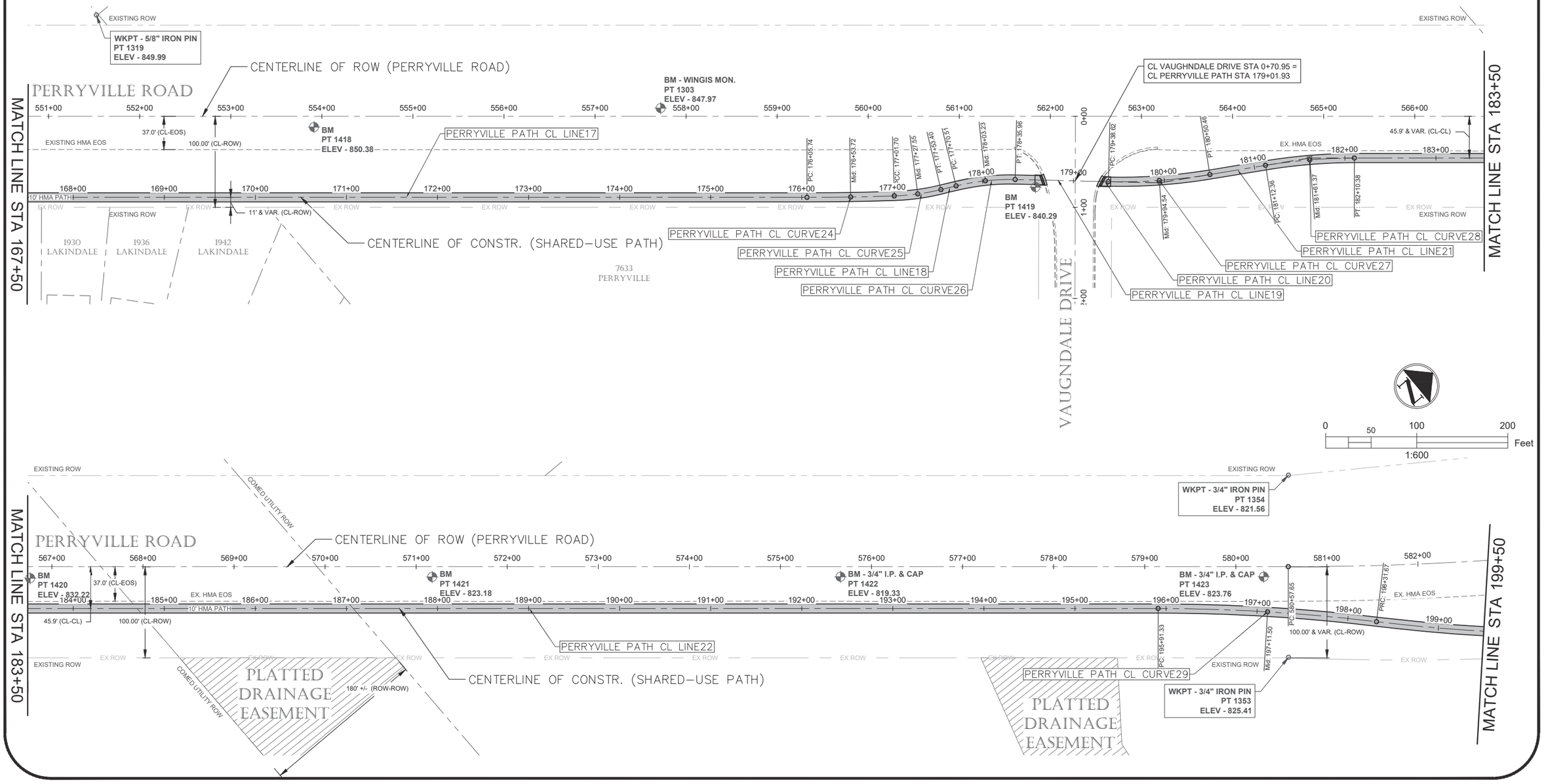
Centerline Alignment & Benchmark Details

SEE PAGE 8 OF 52 FOR PROPOSED ALIGNMENT TABLES

SEE PAGE 11 OF 52 FOR CONTROL POINT COORDINATES

0 50 100 200 Feet

1:600



CENTERLINE ALIGNMENT CONTROL

CONTRACT: 85741

WINNEBAGO COUNTY ILLINOIS	ROUTE	SECTION	SHEET
	11	21-00633-01-BT	10 OF 52

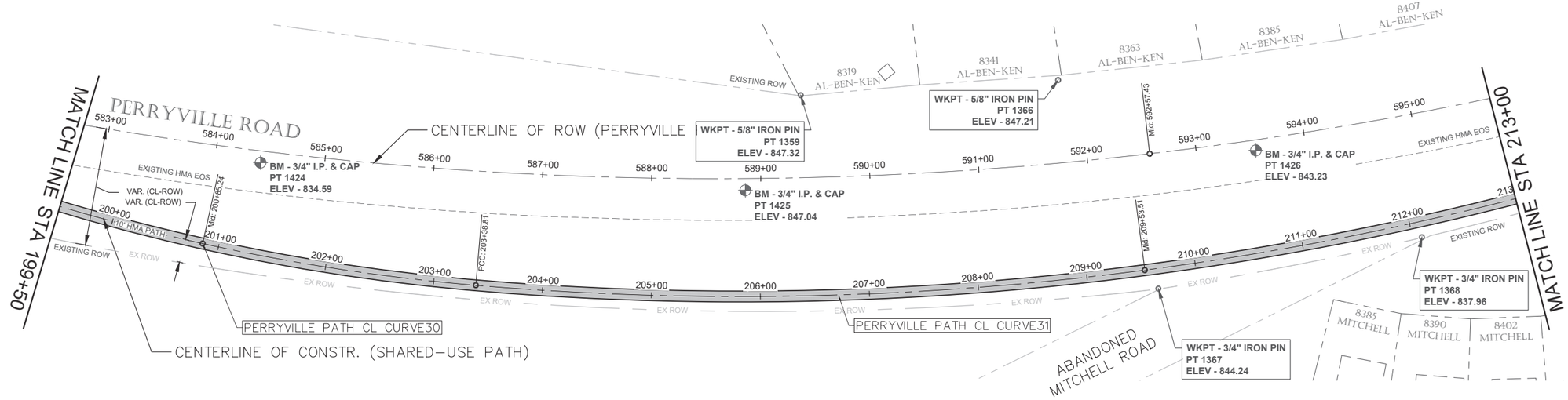
Centerline Alignment & Benchmark Details

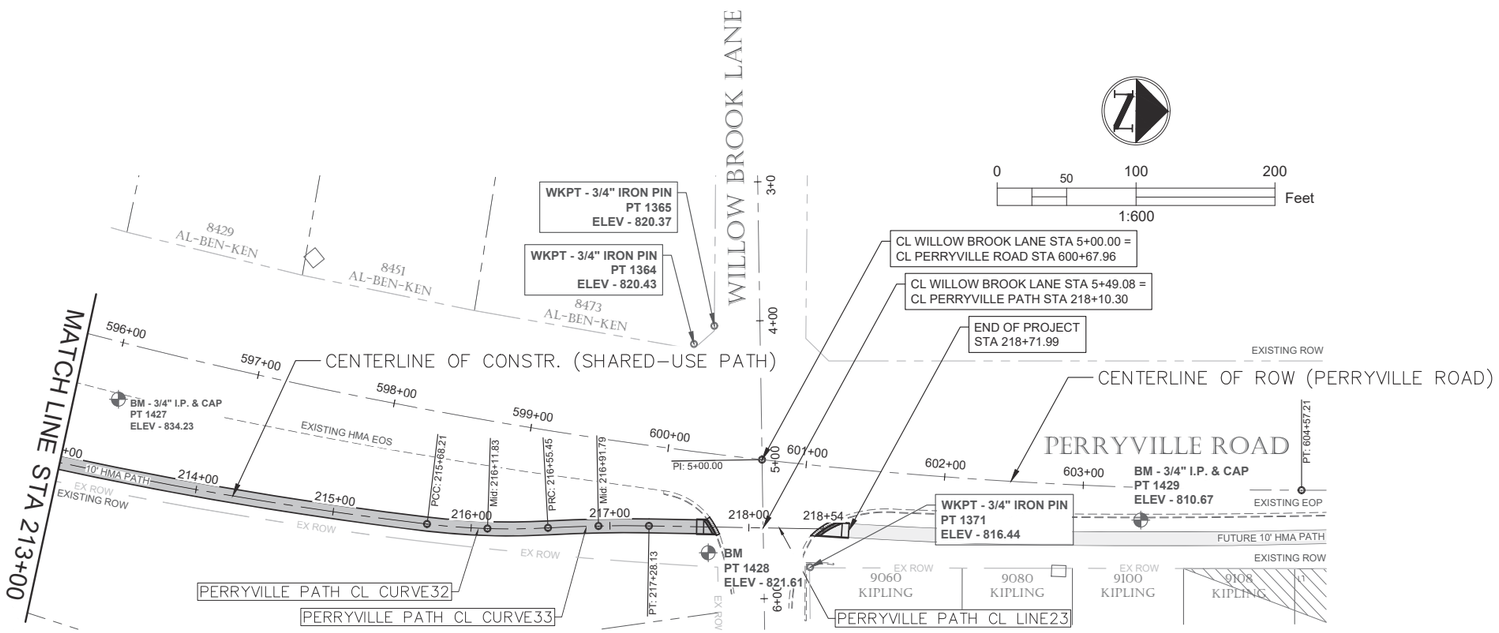
SEE PAGE 8 OF 52 FOR PROPOSED ALIGNMENT TABLES

SEE PAGE 11 OF 52 FOR CONTROL POINT COORDINATES

0 50 100 200 Feet

1:600





0 50 100 200 Feet

1:600

CENTERLINE ALIGNMENT CONTROL

SEE PAGE 8 OF 52 FOR PROPOSED ALIGNMENT TABLES

Survey Control Point Table				
Point #	Elevation	Northing	Easting	Description
1302	844.77	2,079,868.90	2,610,112.95	mon - WIN GIS
1303	847.97	2,081,074.34	2,611,056.24	mon - WIN GIS
1316	828.08	2,079,291.35	2,609,511.29	58 - 5/8" IRON PIN
1318	833.77	2,079,510.54	2,609,944.76	58 - 5/8" IRON PIN

Survey Control Point Table				
Point #	Elevation	Northing	Easting	Description
1319	849.99	2,080,654.09	2,610,589.54	58 - 5/8" IRON PIN
1353	825.41	2,082,792.37	2,612,567.83	34 - 3/4" IRON PIN
1354	821.56	2,082,917.20	2,612,411.54	34 - 3/4" IRON PIN
1359	847.32	2,083,635.50	2,612,877.17	58 - 5/8" IRON PIN

Survey Control Point Table				
Point #	Elevation	Northing	Easting	Description
1364	820.43	2,084,642.19	2,613,147.30	34 - 3/4" IRON PIN
1365	820.37	2,084,656.55	2,613,133.84	34 - 3/4" IRON PIN
1366	847.21	2,083,854.90	2,612,965.40	58 - 5/8" IRON PIN
1367	844.24	2,083,856.25	2,613,177.76	34 - 3/4" IRON PIN

Survey Control Point Table				
Point #	Elevation	Northing	Easting	Description
1368	837.96	2,084,094.84	2,613,238.24	34 - 3/4" IRON PIN
1371	816.44	2,084,729.44	2,613,306.05	34 - 3/4" IRON PIN
1416	852.04	2,080,165.94	2,610,356.59	BM BM XCUT
1417	852.64	2,080,462.80	2,610,593.95	BM BM XCUT

Survey Control Point Table				
Point #	Elevation	Northing	Easting	Description
1418	850.38	2,080,763.91	2,610,834.85	BM BM XCUT
1419	840.29	2,081,341.77	2,611,380.94	BM BM CHISELED SQUARE
1420	832.22	2,081,767.09	2,611,637.45	BM BM XCUT
1421	823.18	2,082,112.87	2,611,911.88	BM BM 3/4" CAPPED IRON PIN

Survey Control Point Table				
Point #	Elevation	Northing	Easting	Description
1422	819.33	2,082,463.22	2,612,191.70	BM BM 3/4" CAPPED IRON PIN
1423	823.76	2,082,826.38	2,612,481.78	BM BM 3/4" CAPPED IRON PIN
1424	834.59	2,083,161.21	2,612,721.64	BM BM 3/4" CAPPED IRON PIN
1425	847.04	2,083,552.37	2,612,934.36	BM BM 3/4" CAPPED IRON PIN

Survey Control Point Table				
Point #	Elevation	Northing	Easting	Description
1426	843.23	2,083,991.24	2,613,101.15	BM BM 3/4" CAPPED IRON PIN
1427	834.23	2,084,228.83	2,613,196.34	BM BM 3/4" CAPPED IRON PIN
1428	821.61	2,084,655.82	2,613,297.25	BM BM CHISELED SQUARE
1429	810.67	2,084,966.66	2,613,266.77	BM BM 3/4" CAPPED IRON PIN

Survey Control Point Table				
Point #	Elevation	Northing	Easting	Description
1440	827.54	2,079,443.88	2,609,693.05	CP CP XCUT
1446	834.84	2,079,602.30	2,609,907.16	BM BM XCUT
1447	825.75	2,079,355.40	2,609,813.65	BM BM CHISELED SQUARE
1448	817.70	2,079,209.55	2,609,697.31	BM BM XCUT

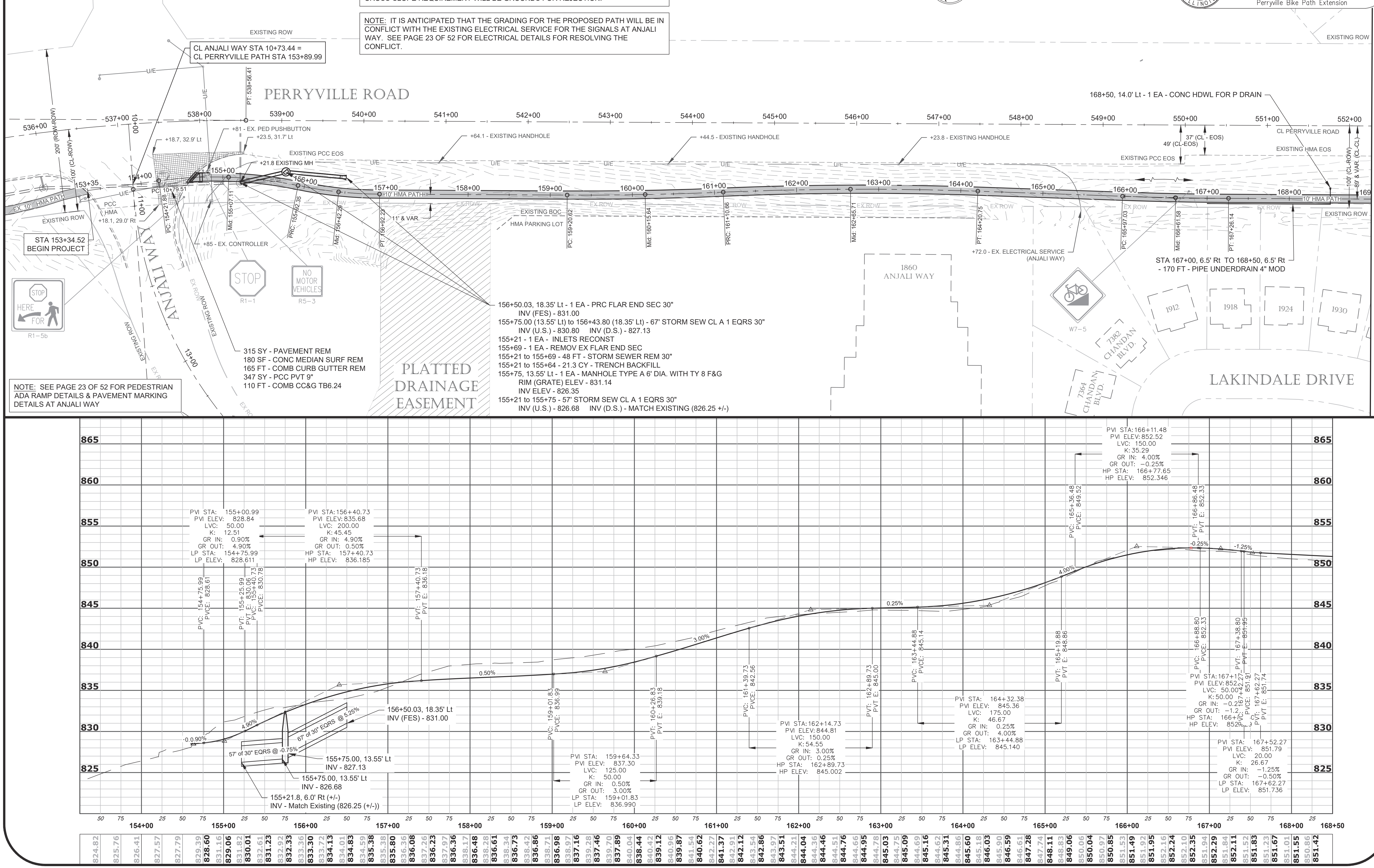
ROUTE	SECTION	SHEET
11	21-00633-01-BT	12 OF 52

Perryville Bike Path Extension

NOTE: THE CONTRACTOR SHALL CONSTRUCT THE NEW PCC PAVEMENT AT ANJALI WAY IN SUCH A WAY THAT ENSURES THE CROSS-WALK CROSS-SLOPE IS CONSTRUCTED AT 1.5% (2.0% STATUTORY MAXIMUM.). EXCEEDING THE CROSS-SLOPE REQUIREMENT WILL BE GROUNDS FOR REJECTION.

NOTE: IT IS ANTICIPATED THAT THE GRADING FOR THE PROPOSED PATH WILL BE IN CONFLICT WITH THE EXISTING ELECTRICAL SERVICE FOR THE SIGNALS AT ANJALI WAY. SEE PAGE 23 OF 52 FOR ELECTRICAL DETAILS FOR RESOLVING THE CONFLICT.

NOTE: SEE PAGE 23 OF 52 FOR PEDESTRIAN ADA RAMP DETAILS & PAVEMENT MARKING DETAILS AT ANJALI WAY



CONTRACT: 85741

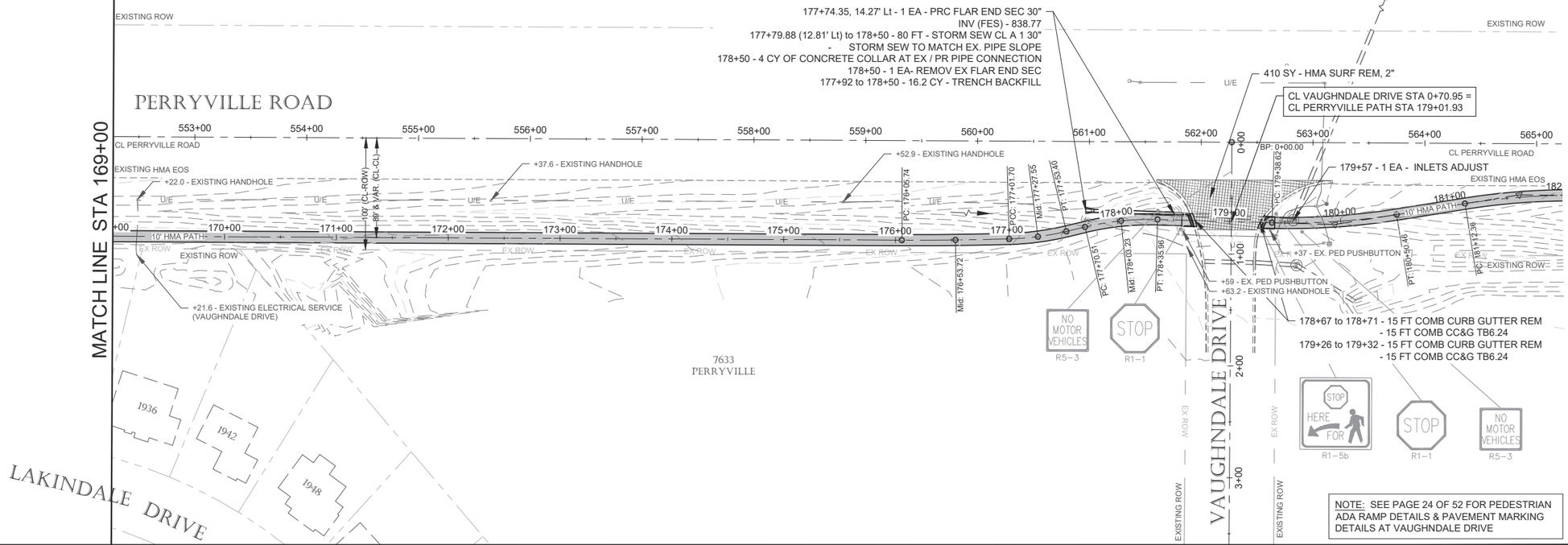
NOTE: IT IS ANTICIPATED THAT THE GRADING FOR THE PROPOSED PATH WILL BE IN CONFLICT WITH THE EXISTING ELECTRICAL SERVICE FOR THE SIGNALS AT VAUGHNDALE DRIVE. SEE PAGE 24 OF 52 FOR ELECTRICAL DETAILS FOR RESOLVING THE CONFLICT.

0 100 200 Feet

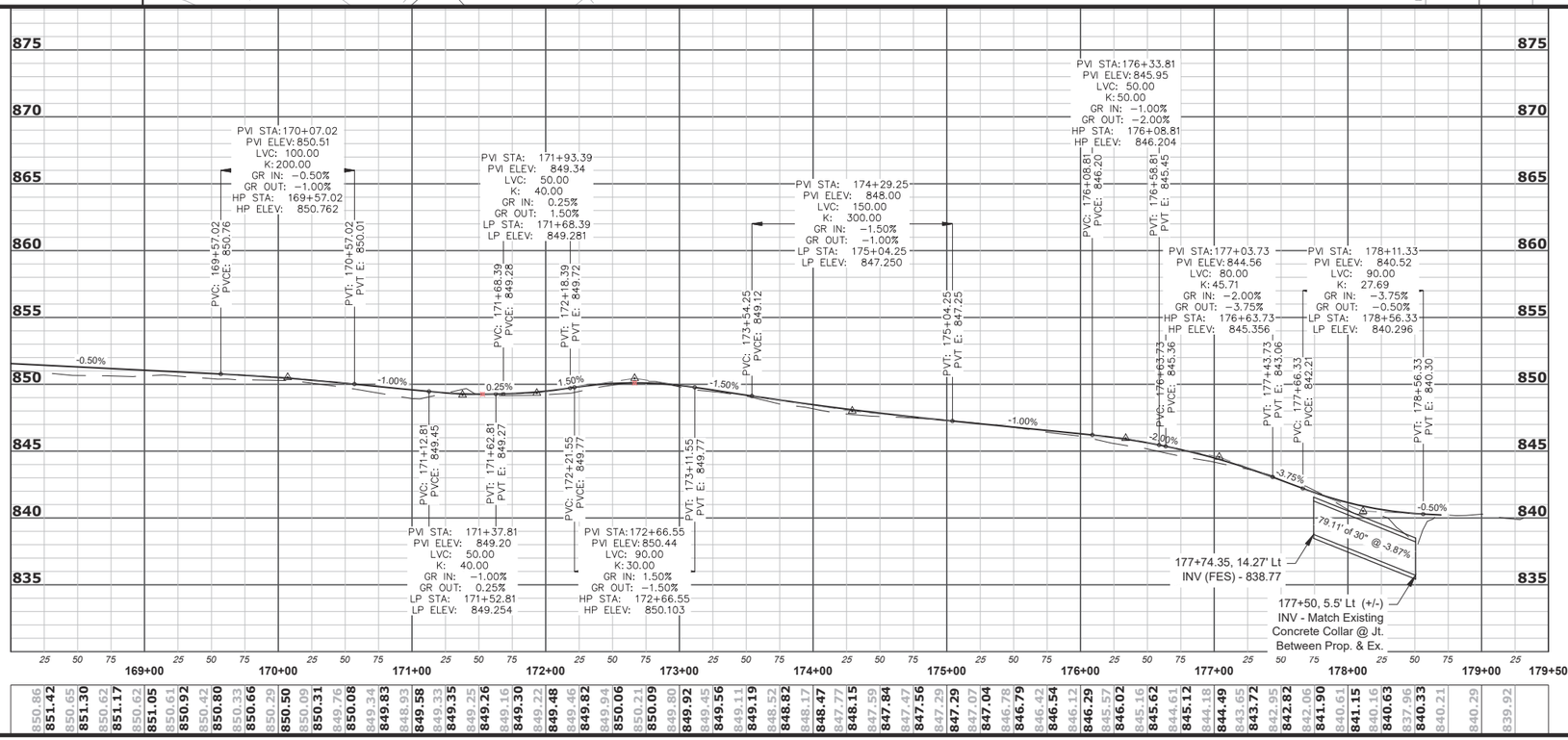
WINNEBAGO COUNTY ILLINOIS

ROUTE	SECTION	SHEET
11	21-00633-01-BT	13 OF 52

Perryville Bike Path Extension



NOTE: SEE PAGE 24 OF 52 FOR PEDESTRIAN ADA RAMP DETAILS & PAVEMENT MARKING DETAILS AT VAUGHNDALE DRIVE



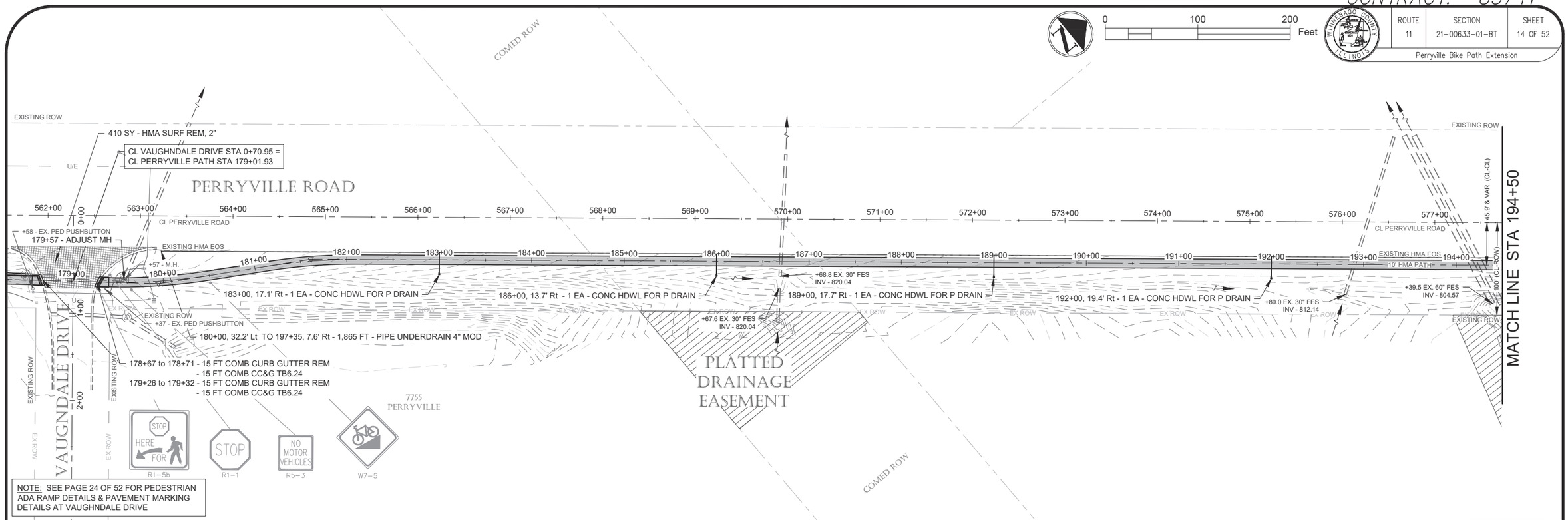
PLAN & PROFILE

CONTRACT: 85741

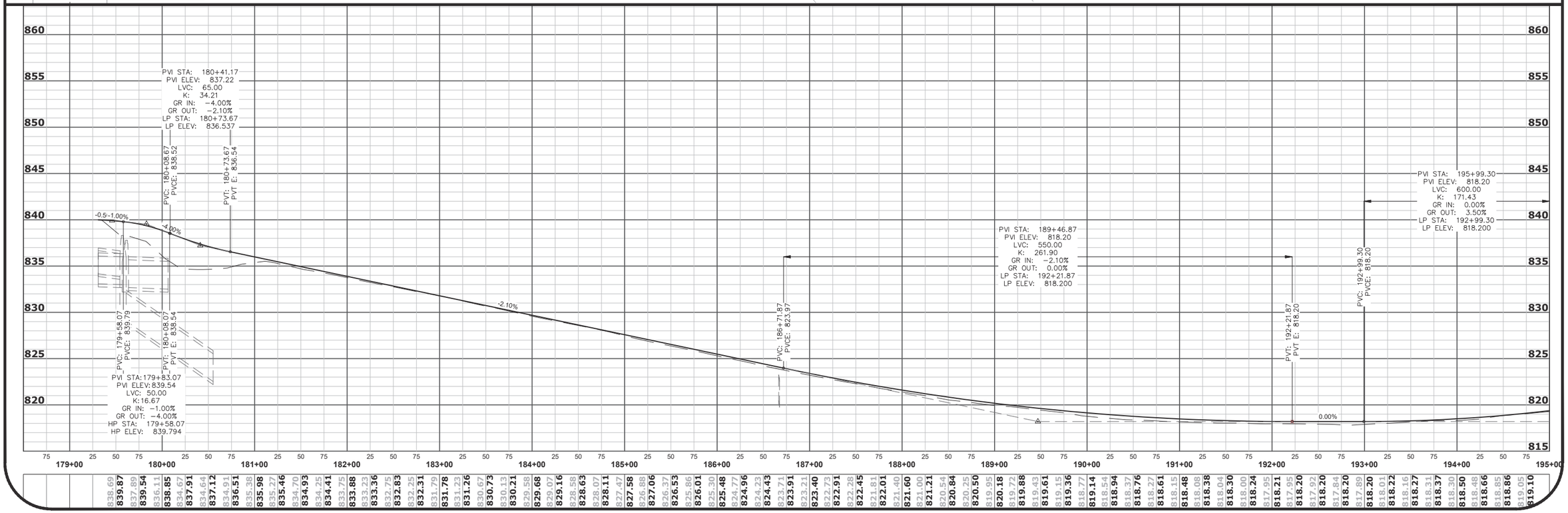
WINNEBAGO COUNTY ILLINOIS	ROUTE	SECTION	SHEET
	11	21-00633-01-BT	14 OF 52

Perryville Bike Path Extension

0 100 200 Feet



NOTE: SEE PAGE 24 OF 52 FOR PEDESTRIAN ADA RAMP DETAILS & PAVEMENT MARKING DETAILS AT VAUGHNDALE DRIVE



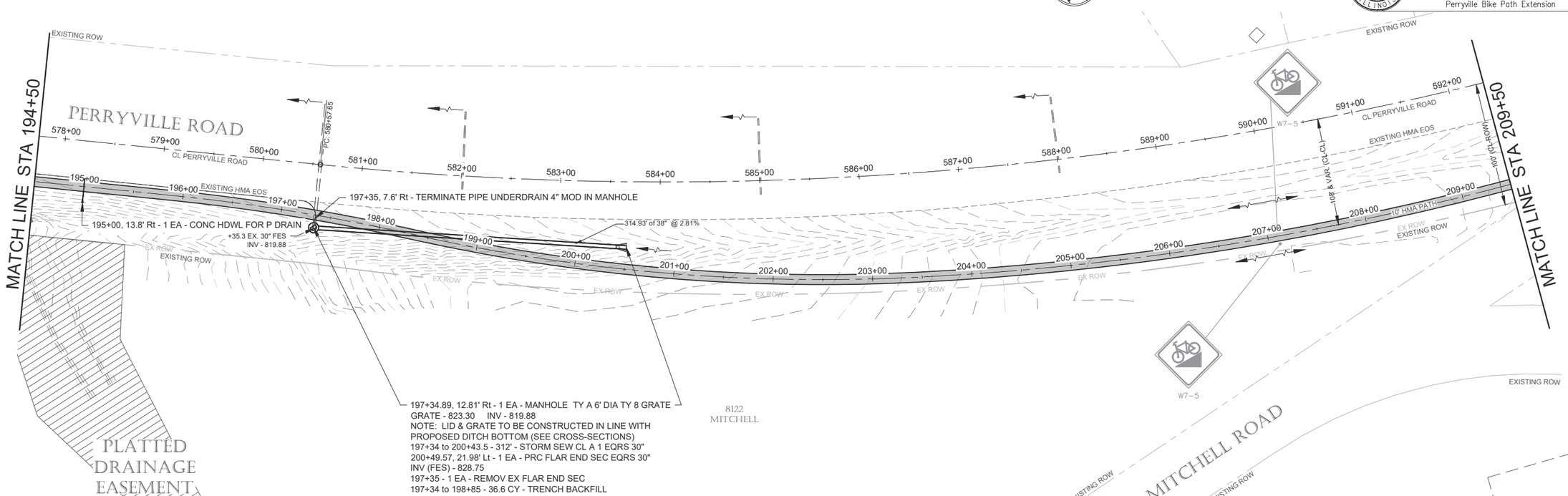
PLAN & PROFILE

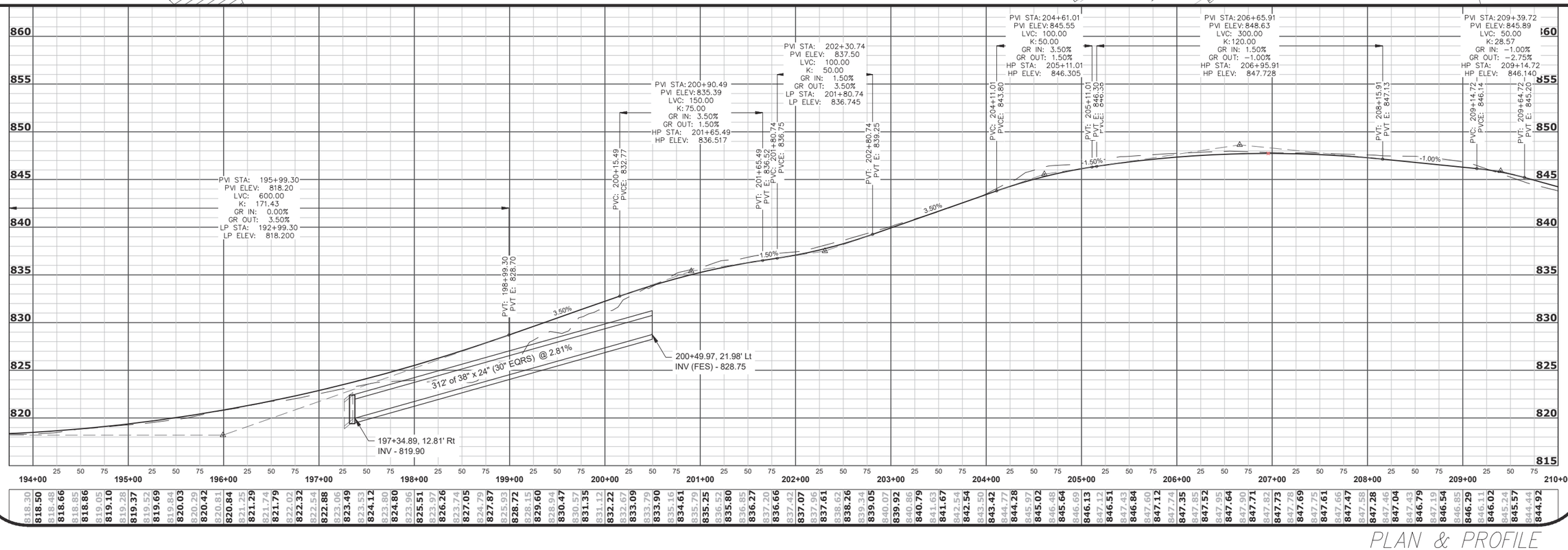
CONTRACT: 85741

0 100 200 Feet

WINNEBAGO COUNTY ILLINOIS	ROUTE	SECTION	SHEET
	11	21-00633-01-BT	15 OF 52

Perryville Bike Path Extension



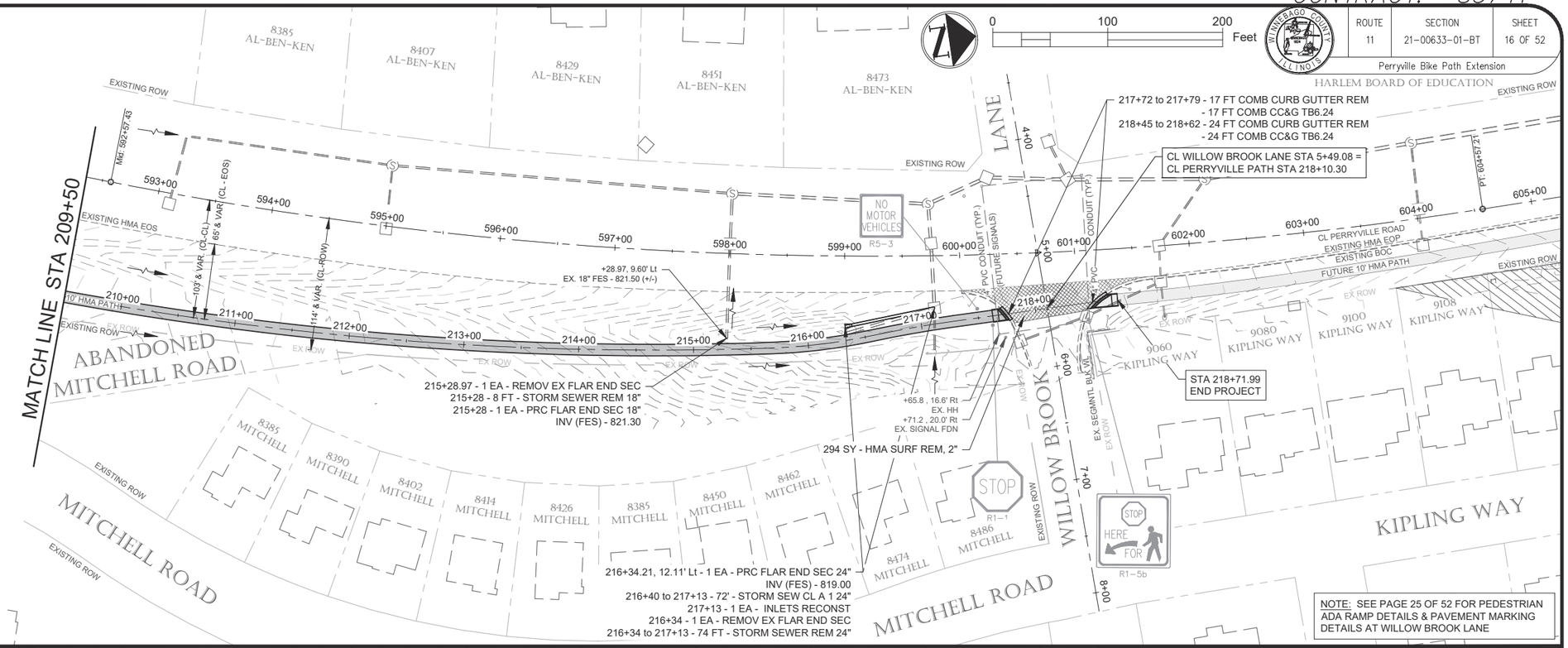


PLAN & PROFILE

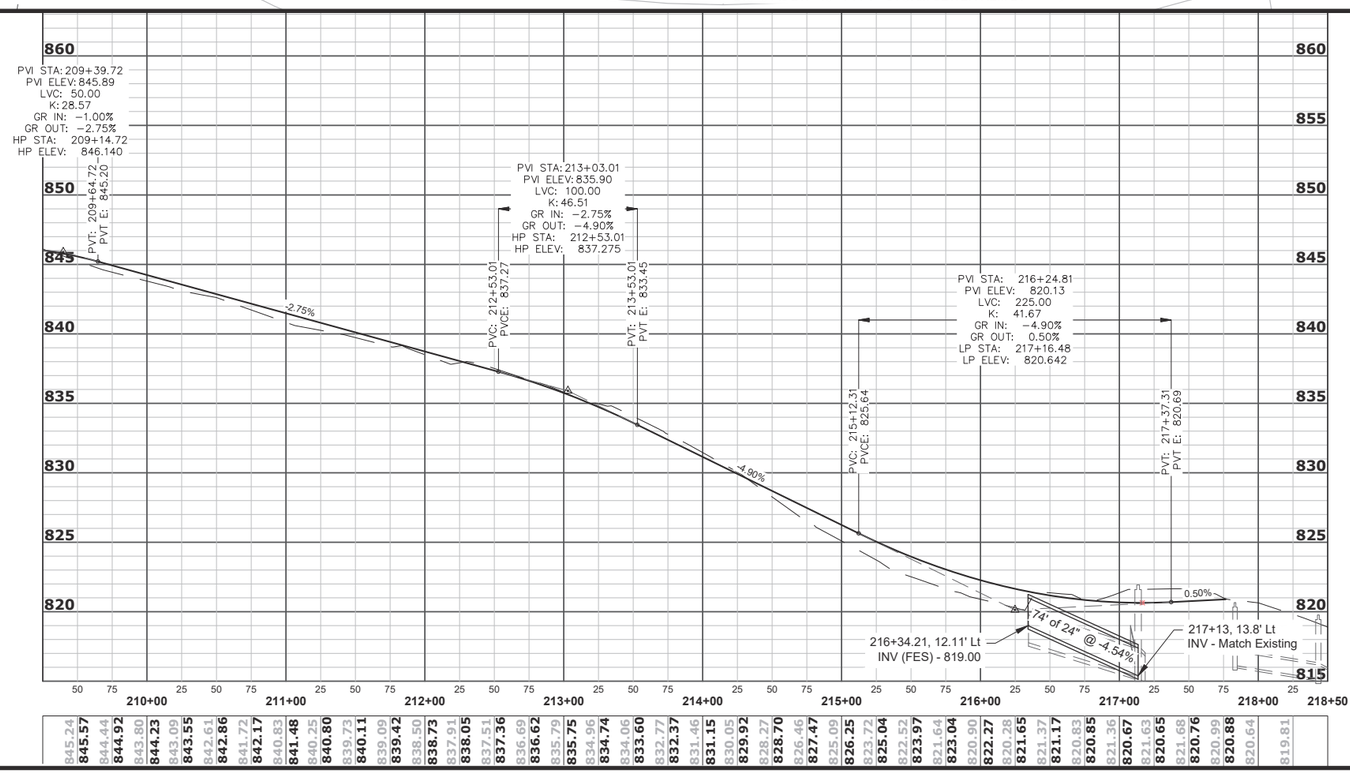
CONTRACT: 85741

WINNEBAGO COUNTY ILLINOIS	ROUTE	SECTION	SHEET
	11	21-00633-01-BT	16 OF 52

Perryville Bike Path Extension



NOTE: SEE PAGE 25 OF 52 FOR PEDESTRIAN ADA RAMP DETAILS & PAVEMENT MARKING DETAILS AT WILLOW BROOK LANE



PLAN & PROFILE

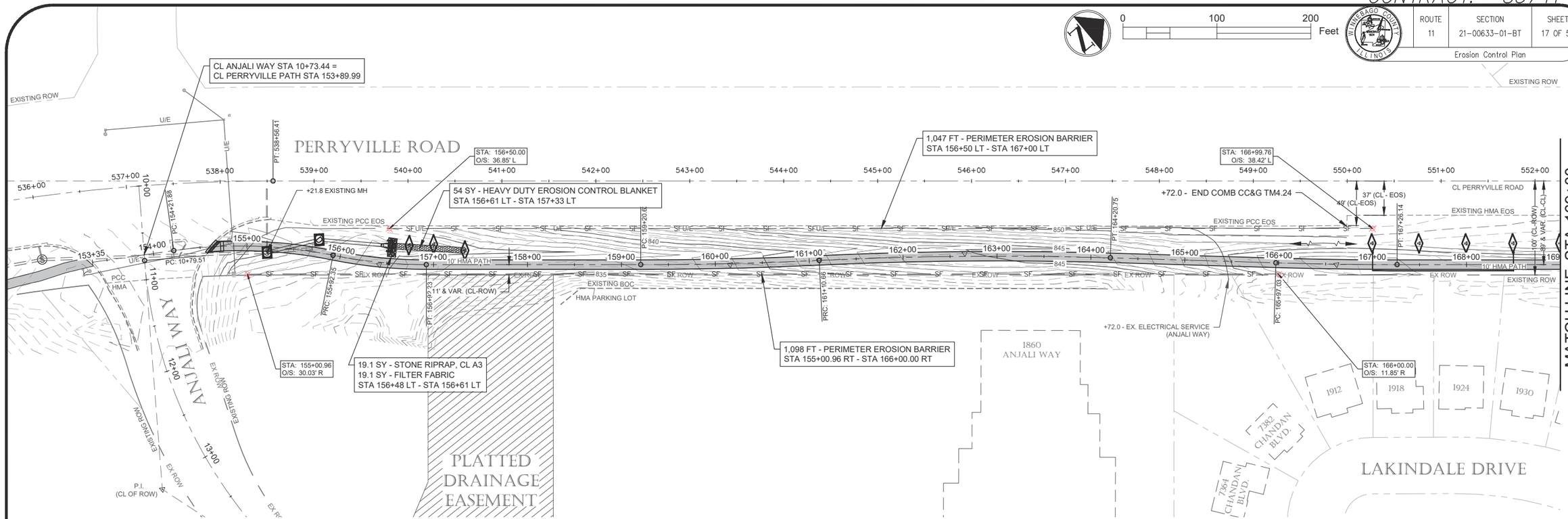
CONTRACT: 85741

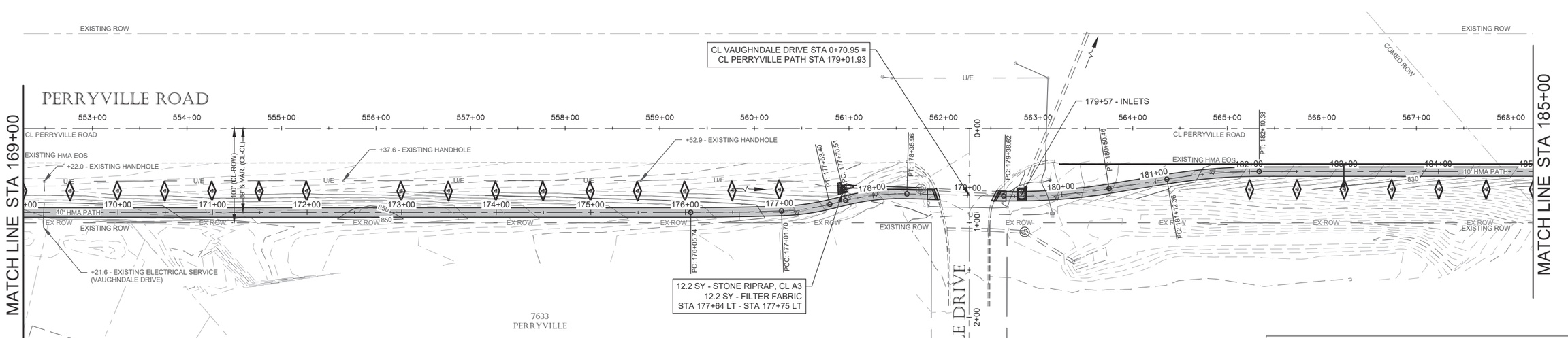
0 100 200 Feet

WINNEBAGO COUNTY ILLINOIS

ROUTE	SECTION	SHEET
11	21-00633-01-BT	17 OF 52

Erosion Control Plan





LEGEND

EXISTING	PROPOSED	DESCRIPTION
		CONCRETE END SECTION
		METAL END SECTION
ROW	ROW	RIGHT-OF-WAY
		DITCH FLOW
		INLET PROTECTION
	SF	PERIMETER EROSION BARRIAR
		TEMPORARY DITCH CHECK
		AGGREGATE DITCH CHECK
		HEAVY DUTY EROSION CONTROL FABRIC
		RIP-RAP

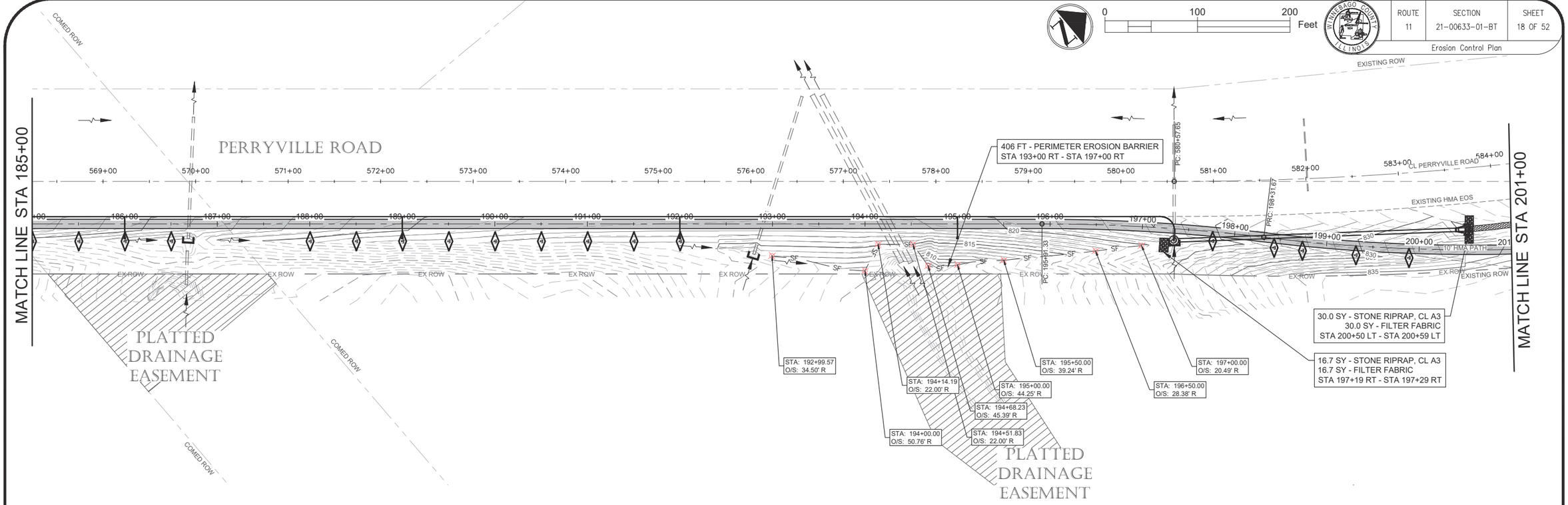
EROSION CONTROL PLAN

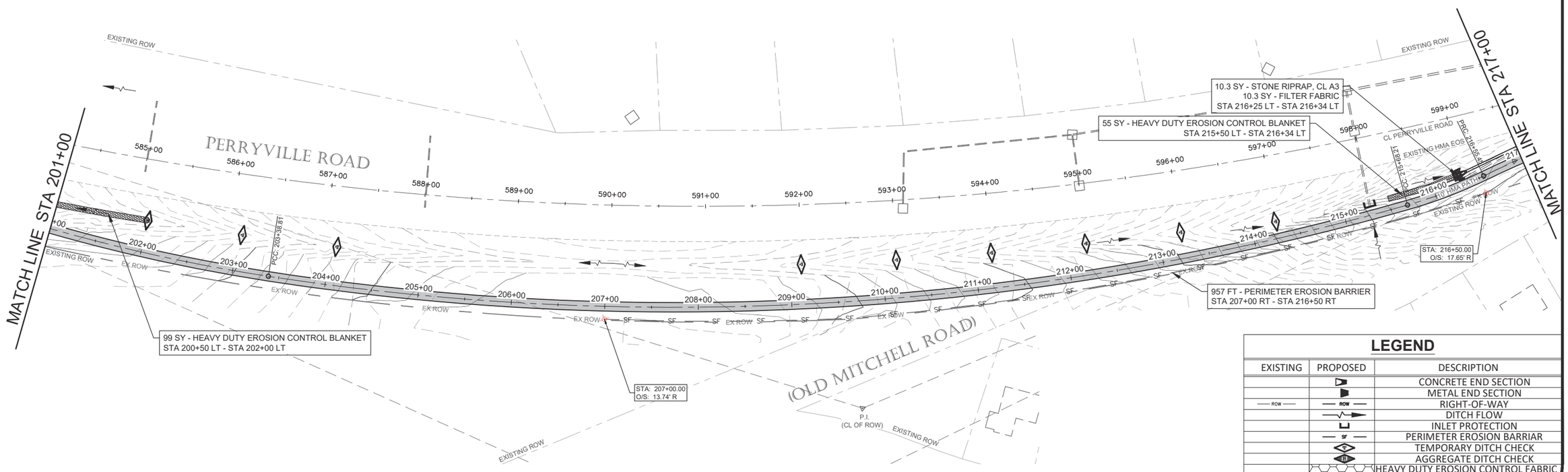
CONTRACT: 85741

ROUTE	SECTION	SHEET
11	21-00633-01-BT	18 OF 52

Erosion Control Plan

0 100 200 Feet



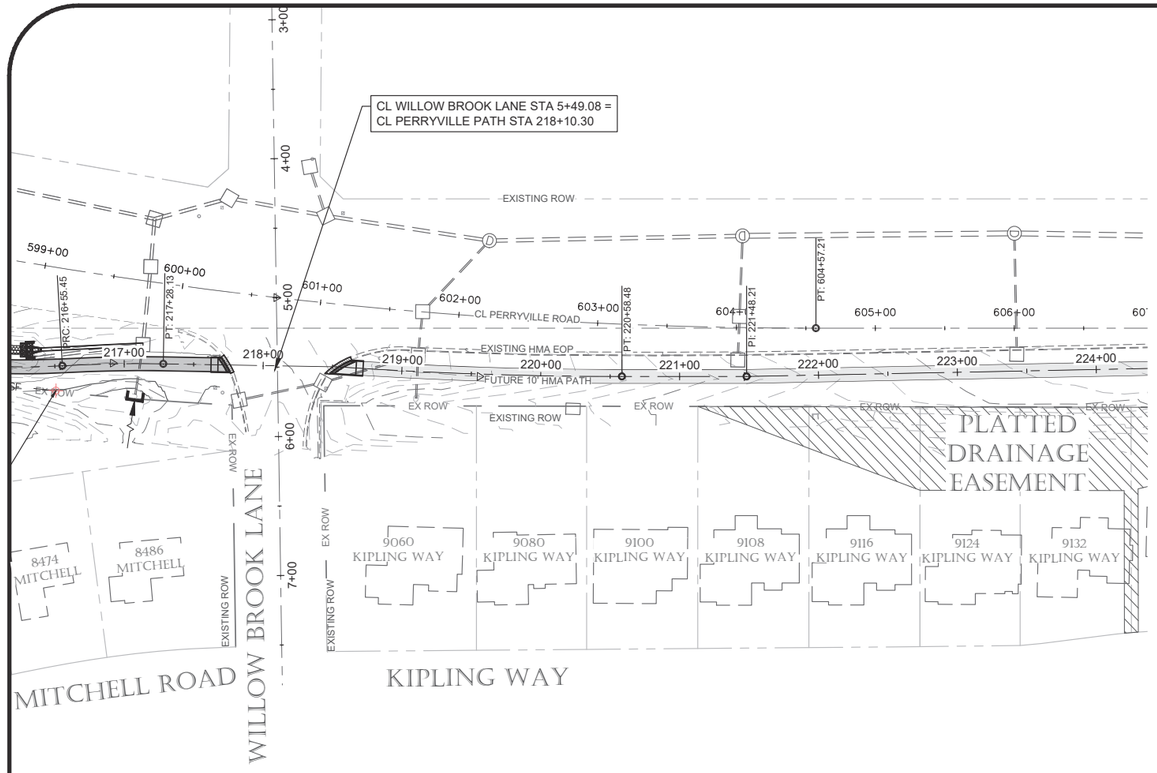


LEGEND

EXISTING	PROPOSED	DESCRIPTION
		CONCRETE END SECTION
		METAL END SECTION
ROW	ROW	RIGHT-OF-WAY
		DITCH FLOW
		INLET PROTECTION
	SF	PERIMETER EROSION BARRIAR
		TEMPORARY DITCH CHECK
		AGGREGATE DITCH CHECK
		HEAVY DUTY EROSION CONTROL FABRIC
		RIP-RAP

EROSION CONTROL PLAN

CONTRACT: 85741



0 100 200 Feet

WINNEBAGO COUNTY ILLINOIS

ROUTE	SECTION	SHEET
11	21-00633-01-BT	19 OF 52

Erosion Control Plan

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		CONCRETE END SECTION
		METAL END SECTION
ROW	ROW	RIGHT-OF-WAY
		DITCH FLOW
		INLET PROTECTION
	SF	PERIMETER EROSION BARRIAR
		TEMPORARY DITCH CHECK
		AGGREGATE DITCH CHECK
		HEAVY DUTY EROSION CONTROL FABRIC
		RIP-RAP

EROSION CONTROL PLAN

CONTRACT: 85741

ROUTE	SECTION	SHEET
11	21-00633-01-BT	20 OF 52

Landscaping Plan

0 100 200 Feet

CL ANJALI WAY STA 10+73.44 =
CL PERRYVILLE PATH STA 153+89.99

PERRYVILLE ROAD

EXISTING ROW

PT: 538+56.41

+21.8 EXISTING MH

PC: 154+21.98

PC: 10+79.51

PCC
HMA

ANJALI WAY

EXISTING ROW

P.I.
(CL OF ROAD)

EXISTING PCC EOS

PC: 155+92.35

PT: 156+82.23

PC: 159+20.62

PC: 161+10.66

PT: 164+20.75

PC: 165+97.03

PT: 167+26.14

CL PERRYVILLE ROAD

EXISTING HMA EOS

37' (CL - EOS)

49' (CL-EOS)

10' (CL-ROW)

89' & VAR. (CL-CL)

10' HMA PATH

EX ROW

EXISTING ROW

11' & VAR. (CL-ROW)

EXISTING BOC
HMA PARKING LOT

ANJALI WAY TO VAUGHNDALE DRIVE
1.11 AC - SEEDING CLASS 2A
99.5 LBS - NITROGEN FERTILIZER NUTRIENT
99.5 LBS - PHOSPHORUS FERTILIZER NUTRIENT
99.5 LBS - POTASSIUM FERTILIZER NUTRIENT
1.11 AC - MULCH, METHOD 3

ANJALI WAY TO VAUGHNDALE DRIVE
0.40 AC - SEEDING CLASS 2A
36 LBS - NITROGEN FERTILIZER NUTRIENT
36 LBS - PHOSPHORUS FERTILIZER NUTRIENT
36 LBS - POTASSIUM FERTILIZER NUTRIENT
1,915 SY - EROSION CONTROL BLANKET

PLATTED
DRAINAGE
EASEMENT

1860
ANJALI WAY

1912
1918
1924
1930

7382
CHANDAN
BLVD.

7364
CHANDAN
BLVD.

LAKINDALE DRIVE

MATCH LINE STA 169+00

MATCH LINE STA 169+00

CL VAUGHNDALE DRIVE STA 0+70.95 =
CL PERRYVILLE PATH STA 179+01.93

PERRYVILLE ROAD

COMED ROW

179+57 - INLETS

PC: 176+05.74

PC: 177+01.70

PT: 177+55.40

PC: 177+70.51

PT: 178+35.96

PC: 179+38.62

PT: 180+50.46

PC: 181+12.36

PT: 182+10.38

VAUGHNDALE DRIVE

7633
PERRYVILLE

1936
1942
1948

MATCH LINE STA 185+00

LEGEND

PROPOSED	DESCRIPTION
C. H. B.	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED
W. O.	TREE, QUERCUS ALBA (WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED
R. O.	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED
	SEEDING, CLASS 2A WITH MULCH METHOD TYPE 3
	SEEDING, CLASS 2A WITH EROSION CONTROL BLANKET

LANDSCAPING PLAN

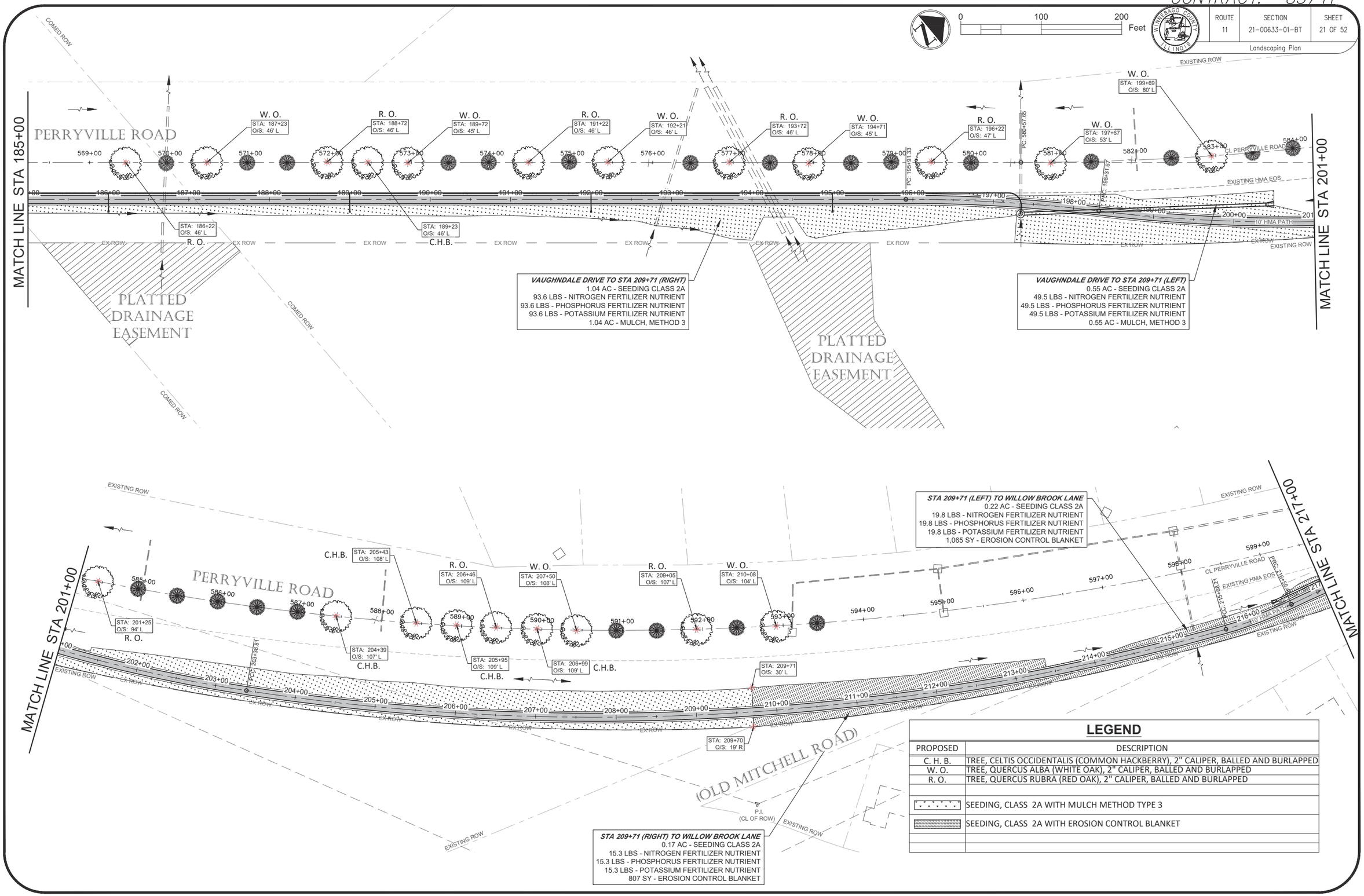
CONTRACT: 85741

0 100 200 Feet

WINNEBAGO COUNTY ILLINOIS

ROUTE	SECTION	SHEET
11	21-00633-01-BT	21 OF 52

Landscaping Plan

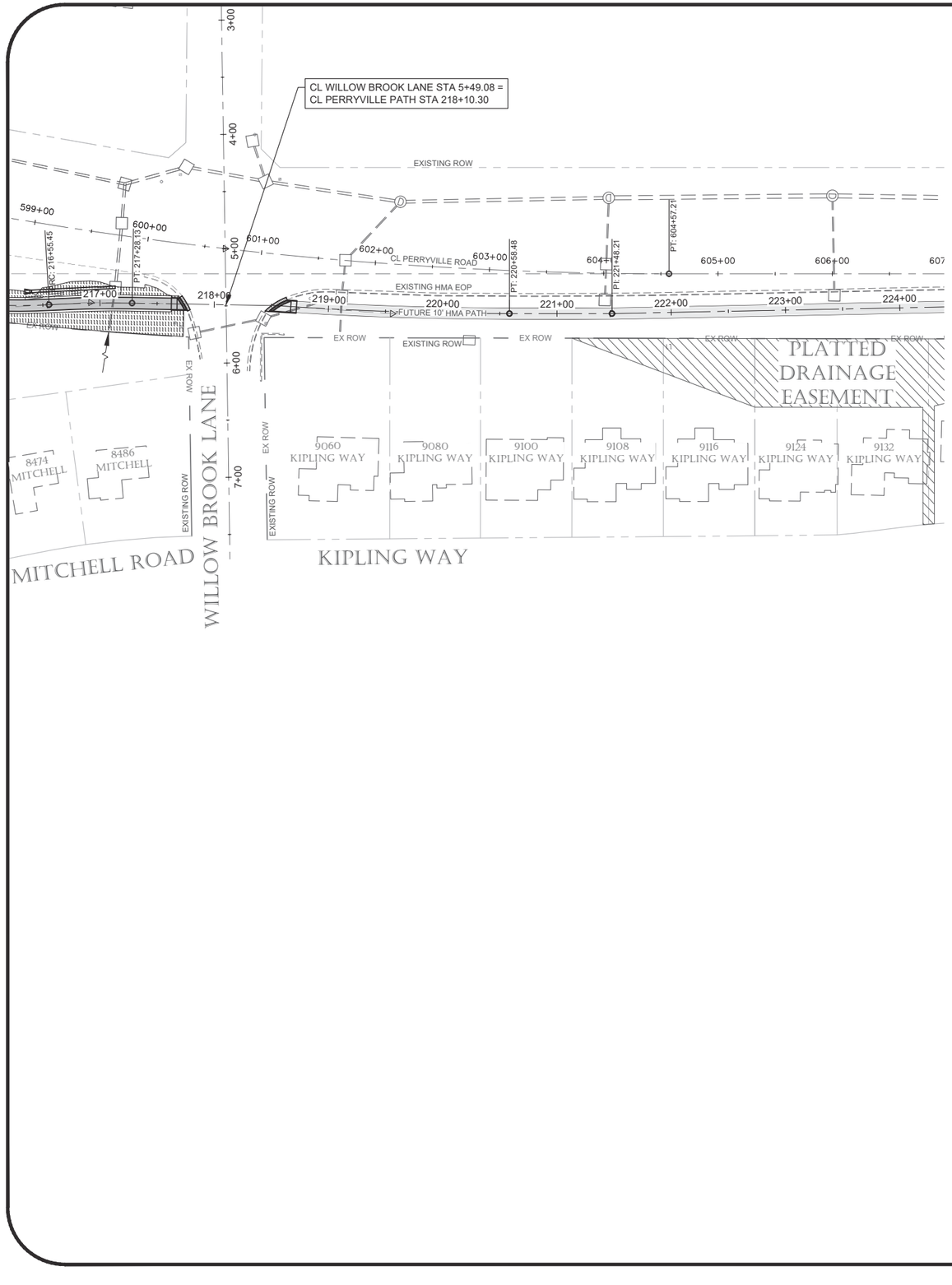


LEGEND

PROPOSED	DESCRIPTION
C. H. B.	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED
W. O.	TREE, QUERCUS ALBA (WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED
R. O.	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED
	SEEDING, CLASS 2A WITH MULCH METHOD TYPE 3
	SEEDING, CLASS 2A WITH EROSION CONTROL BLANKET

LANDSCAPING PLAN

CONTRACT: 85741



0 100 200 Feet

WINNEBAGO COUNTY ILLINOIS

ROUTE	SECTION	SHEET
11	21-00633-01-BT	22 OF 52

Landscaping Plan

LEGEND

PROPOSED	DESCRIPTION
C. H. B.	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED
W. O.	TREE, QUERCUS ALBA (WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED
R. O.	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED
	SEEDING, CLASS 2A WITH MULCH METHOD TYPE 3
	SEEDING, CLASS 2A WITH EROSION CONTROL BLANKET

LANDSCAPING PLAN

CONTRACT: 85741

ROUTE	SECTION	SHEET
11	21-00633-01-BT	23 OF 52

ADA Ramp Details (Anjali Way)

0 10 20 40 Feet

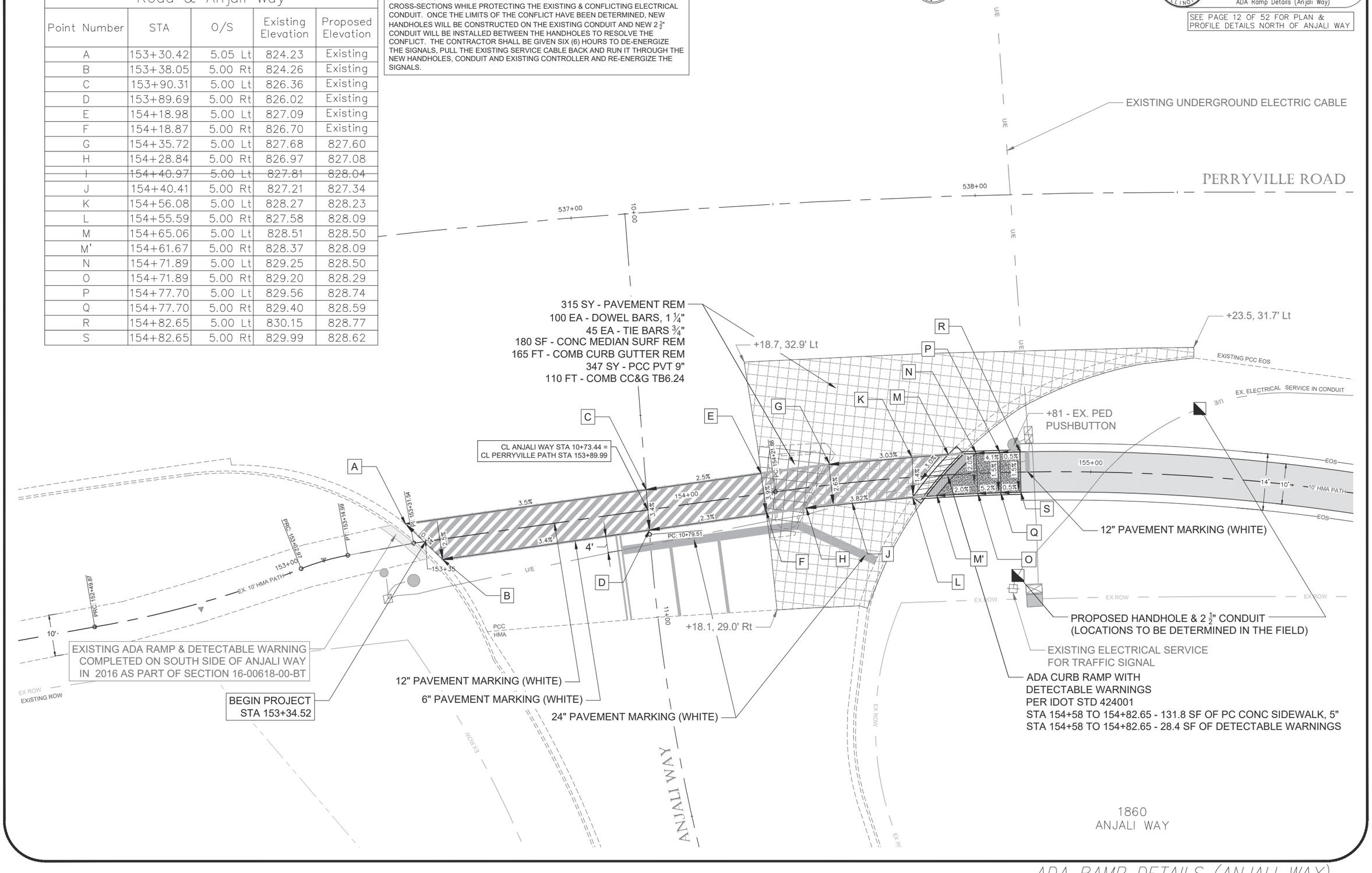
1:120

SEE PAGE 12 OF 52 FOR PLAN & PROFILE DETAILS NORTH OF ANJALI WAY

ADA Ramps at Intersection of Perryville Road & Anjali Way

Point Number	STA	O/S	Existing Elevation	Proposed Elevation
A	153+30.42	5.05 Lt	824.23	Existing
B	153+38.05	5.00 Rt	824.26	Existing
C	153+90.31	5.00 Lt	826.36	Existing
D	153+89.69	5.00 Rt	826.02	Existing
E	154+18.98	5.00 Lt	827.09	Existing
F	154+18.87	5.00 Rt	826.70	Existing
G	154+35.72	5.00 Lt	827.68	827.60
H	154+28.84	5.00 Rt	826.97	827.08
~~I~~	~~154+40.97~~	~~5.00 Lt~~	~~827.81~~	~~828.04~~
J	154+40.41	5.00 Rt	827.21	827.34
K	154+56.08	5.00 Lt	828.27	828.23
L	154+55.59	5.00 Rt	827.58	828.09
M	154+65.06	5.00 Lt	828.51	828.50
M'	154+61.67	5.00 Rt	828.37	828.09
N	154+71.89	5.00 Lt	829.25	828.50
O	154+71.89	5.00 Rt	829.20	828.29
P	154+77.70	5.00 Lt	829.56	828.74
Q	154+77.70	5.00 Rt	829.40	828.59
R	154+82.65	5.00 Lt	830.15	828.77
S	154+82.65	5.00 Rt	829.99	828.62

NOTE: IT IS ANTICIPATED THAT THE GRADING FOR THE PROPOSED PATH WILL BE IN CONFLICT WITH THE EXISTING TRAFFIC SIGNAL ELECTRICAL SERVICE AT ANJALI WAY. THE CONTRACTOR SHALL GRADE TO THE LINES AND SLOPES SHOWN IN THE CROSS-SECTIONS WHILE PROTECTING THE EXISTING & CONFLICTING ELECTRICAL CONDUIT. ONCE THE LIMITS OF THE CONFLICT HAVE BEEN DETERMINED, NEW HANDHOLES WILL BE CONSTRUCTED ON THE EXISTING CONDUIT AND NEW 2 1/2" CONDUIT WILL BE INSTALLED BETWEEN THE HANDHOLES TO RESOLVE THE CONFLICT. THE CONTRACTOR SHALL BE GIVEN SIX (6) HOURS TO DE-ENERGIZE THE SIGNALS, PULL THE EXISTING SERVICE CABLE BACK AND RUN IT THROUGH THE NEW HANDHOLES, CONDUIT AND EXISTING CONTROLLER AND RE-ENERGIZE THE SIGNALS.



ADA RAMP DETAILS (ANJALI WAY)

ROUTE	SECTION	SHEET
11	21-00633-01-BT	24 OF 52

ADA Ramp Details (Vaughndale Drive)

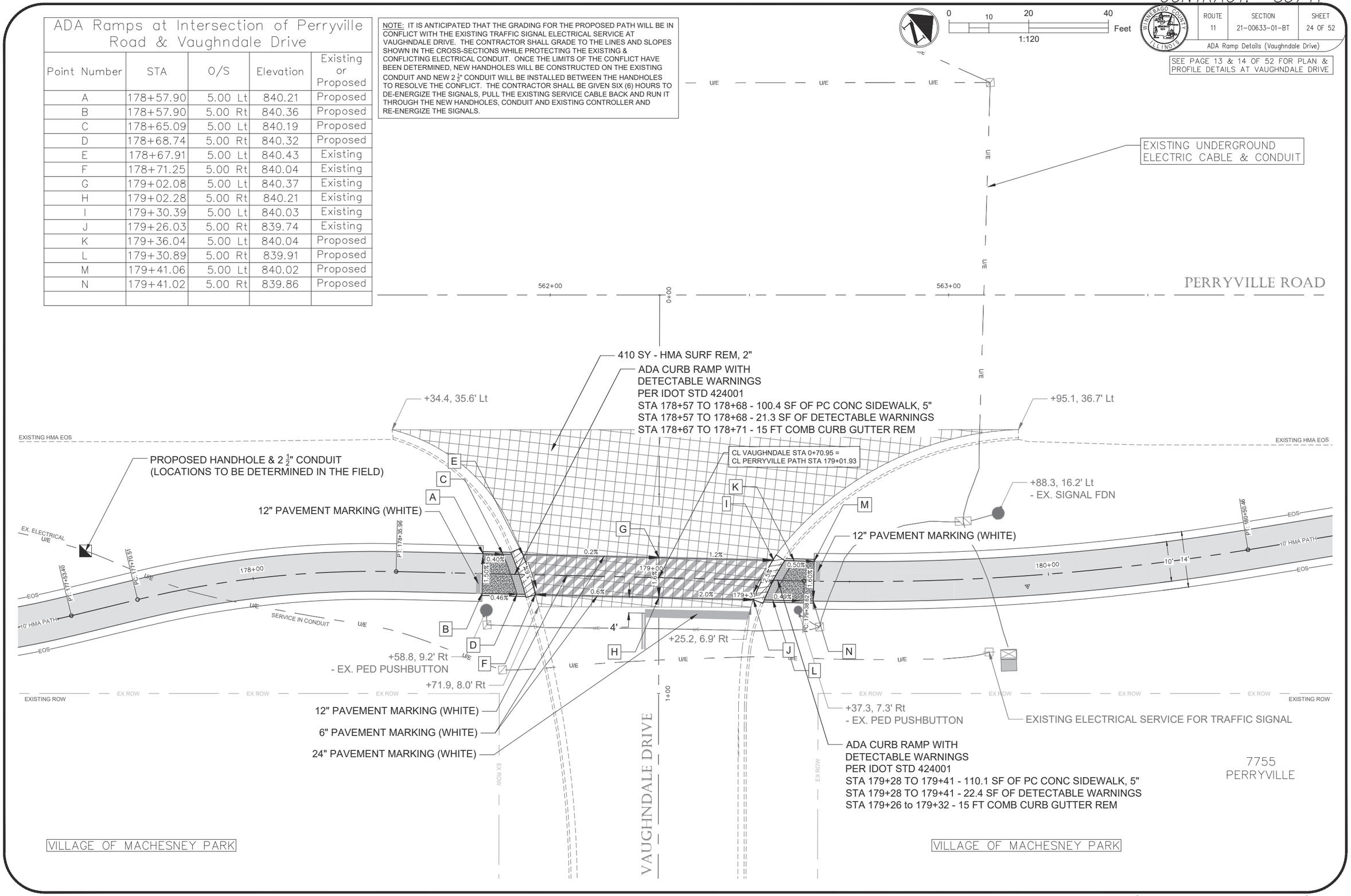
0 10 20 40 Feet
1:120

SEE PAGE 13 & 14 OF 52 FOR PLAN & PROFILE DETAILS AT VAUGHNDALE DRIVE

ADA Ramps at Intersection of Perryville Road & Vaughndale Drive

Point Number	STA	O/S	Elevation	Existing or Proposed
A	178+57.90	5.00 Lt	840.21	Proposed
B	178+57.90	5.00 Rt	840.36	Proposed
C	178+65.09	5.00 Lt	840.19	Proposed
D	178+68.74	5.00 Rt	840.32	Proposed
E	178+67.91	5.00 Lt	840.43	Existing
F	178+71.25	5.00 Rt	840.04	Existing
G	179+02.08	5.00 Lt	840.37	Existing
H	179+02.28	5.00 Rt	840.21	Existing
I	179+30.39	5.00 Lt	840.03	Existing
J	179+26.03	5.00 Rt	839.74	Existing
K	179+36.04	5.00 Lt	840.04	Proposed
L	179+30.89	5.00 Rt	839.91	Proposed
M	179+41.06	5.00 Lt	840.02	Proposed
N	179+41.02	5.00 Rt	839.86	Proposed

NOTE: IT IS ANTICIPATED THAT THE GRADING FOR THE PROPOSED PATH WILL BE IN CONFLICT WITH THE EXISTING TRAFFIC SIGNAL ELECTRICAL SERVICE AT VAUGHNDALE DRIVE. THE CONTRACTOR SHALL GRADE TO THE LINES AND SLOPES SHOWN IN THE CROSS-SECTIONS WHILE PROTECTING THE EXISTING & CONFLICTING ELECTRICAL CONDUIT. ONCE THE LIMITS OF THE CONFLICT HAVE BEEN DETERMINED, NEW HANDHOLES WILL BE CONSTRUCTED ON THE EXISTING CONDUIT AND NEW 2 $\frac{1}{2}$" CONDUIT WILL BE INSTALLED BETWEEN THE HANDHOLES TO RESOLVE THE CONFLICT. THE CONTRACTOR SHALL BE GIVEN SIX (6) HOURS TO DE-ENERGIZE THE SIGNALS, PULL THE EXISTING SERVICE CABLE BACK AND RUN IT THROUGH THE NEW HANDHOLES, CONDUIT AND EXISTING CONTROLLER AND RE-ENERGIZE THE SIGNALS.



CONTRACT: 85741

ROUTE	SECTION	SHEET
11	21-00633-01-BT	25 OF 52

ADA Ramp Details (Willow Brook Lane)

0 10 20 40 Feet

1:120

ADA Ramps at Intersection of Perryville Road & Willow Brook Lane

Point Number	STA	O/S	Existing Elevation	Proposed Elevation
A	217+62.48	5.00 Lt	821.57	820.89
B	217+62.48	5.00 Rt	821.35	820.74
C	217+67.48	5.00 Lt	821.23	820.92
D	217+67.48	5.00 Rt	821.36	820.77
E	217+73.36	5.00 Lt	821.01	821.01
F	217+73.93	5.00 Rt	820.99	820.81
G	217+79.03	5.00 Rt	820.79	Existing
H	217+79.03	5.00 Lt	820.94	820.64
I	218+10.13	5.00 Lt	820.08	820.30
J	218+10.46	5.00 Rt	820.45	Existing
K	218+44.68	5.00 Lt	818.93	819.00
L	218+44.68	5.00 Rt	819.15	Existing
M	218+57.72	5.00 Lt	818.35	Existing
N	218+51.46	5.00 Rt	819.05	818.75
O	218+67.00	5.00 Lt	818.57	818.98
P	218+67.00	5.00 Rt	818.75	818.83
Q	218+72.01	5.00 Lt	818.30	819.01
R	218+71.99	5.00 Rt	818.47	818.86

NOTE: THE CONTRACTOR WILL LOCATE THE EXISTING UNDERGROUND CONDUIT PRIOR TO BEGINNING ANY GRADING OPERATIONS TO ENSURE THAT THE CONDUIT IS NOT DAMAGED.

SEE PAGE 16 OF 52 FOR PLAN & PROFILE DETAILS AT WILLOW BROOK LANE

THE PERRYVILLE ROAD & WILLOW BROOK LANE INTERSECTION IS STOP CONTROLLED

EXISTING UNDERGROUND CONDUIT FOR FUTURE SIGNALS

HARLEM BOARD OF EDUCATION

PERRYVILLE ROAD

600+00 601+00 602+00 5+00

294 SY - HMA SURFACE REMOVAL, 2"

CL WILLOW BROOK LANE STA 5+49.08 = CL PERRYVILLE PATH STA 218+10.30

EXISTING HMA EOS

+38.4, 25.5' Lt

12" PAVEMENT MARKING (WHITE)

+04.3, 17.3' Lt

EXISTING EOP

EXISTING BOC

+83.7, 8.1' Lt
- EX. 36" FDN FOR FUTURE SIGNAL

EOS

PRC: 216+55.45

PT: 217+28.13

217+00

10' HMA PATH

14'

10'

1.9% 3.8% 4.9%

218+00

1.1% 3.8%

218+54

219+00

END PROJECT STA 218+71.99

FUTURE PATH ALIGNMENT

ADA CURB RAMP WITH DETECTABLE WARNINGS PER IDOT STD 424001
STA 217+62 TO 217+76 - 118.7 SF OF PC CONC SIDEWALK, 5"
STA 217+62 TO 217+76 - 23.7 SF OF DETECTABLE WARNINGS
STA 217+72 to 217+79 - 17 FT COMB CURB GUTTER REM

+65.8, 16.6' Rt
- EX. HANDHOLE

+71.2, 20.0' Rt
- EX. 36" FDN FOR FUTURE SIGNAL

+80.2, 8.6' Rt

+43.4, 6.5' Rt

12" PAVEMENT MARKING (WHITE)

6" PAVEMENT MARKING (WHITE)

24" PAVEMENT MARKING (WHITE)

ADA CURB RAMP WITH DETECTABLE WARNINGS PER IDOT STD 424001
STA 218+48 TO 218+72 - 186.5 SF OF PC CONC SIDEWALK, 5"
STA 218+48 TO 218+72 - 35.4 SF OF DETECTABLE WARNINGS
STA 218+45 to 218+62 - 24 FT COMB CURB GUTTER REM

SEGMENTAL BLOCK WALL

WILLOW BROOK LANE

6+00

EXISTING ROW

EX ROW

8366
MITCHELL

8486
MITCHELL

9060
KIPLING WAY

ADA RAMP DETAILS (WILLOW BROOK LANE)

CONTRACT: 85741

ROUTE	SECTION	SHEET
11	21-00633-01-BT	26 OF 52

Cross-Section-Earthwork Summary

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
154+63.63	0.06	15.50	0.00	0.00	0	0
154+90.00	0.00	57.40	0.03	35.39	0	35
155+00.00	0.00	71.20	0.00	23.65	0	59
155+07.11	0.00	68.34	0.00	18.38	0	77
155+25.00	0.00	52.73	0.00	39.88	0	117
155+50.00	0.00	30.00	0.00	38.05	0	155
155+75.00	28.19	3.11	13.15	15.19	13	171
155+92.35	29.91	4.26	18.89	2.33	32	173
156+00.00	35.22	5.58	9.23	1.39	41	174
156+25.00	48.21	7.32	37.61	6.01	79	180
156+42.29	43.07	7.28	28.38	4.69	107	185
156+50.00	26.39	6.88	9.91	2.02	117	187
156+75.00	10.11	8.40	16.53	7.07	134	194
156+92.23	2.95	10.62	4.09	6.07	138	200
157+00.00	7.41	15.89	1.49	3.81	139	204
157+50.00	4.18	49.45	10.73	60.50	150	264
158+00.00	0.00	82.37	3.87	122.06	154	387
158+50.00	1.44	76.12	1.34	146.76	155	533
159+00.00	2.00	63.70	3.19	129.47	158	663
159+20.62	1.03	64.13	1.16	48.81	160	712

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
159+25.00	0.94	63.77	0.16	10.38	160	722
159+50.00	0.67	63.03	0.74	58.71	160	781
159+75.00	0.14	65.45	0.38	59.48	161	840
160+00.00	0.53	66.05	0.31	60.88	161	901
160+15.64	0.87	60.65	0.41	36.69	162	938
160+25.00	1.06	58.27	0.33	20.61	162	958
160+50.00	1.99	57.62	1.41	53.65	163	1,012
160+75.00	2.45	52.96	2.05	51.19	165	1,063
161+00.00	2.92	61.87	2.49	53.16	168	1,116
161+10.66	2.93	58.10	1.15	23.69	169	1,140
161+25.00	3.02	54.09	1.58	29.79	171	1,170
161+50.00	3.04	52.43	2.80	49.31	173	1,219
161+75.00	2.24	45.69	2.44	45.42	176	1,265
162+00.00	3.01	35.82	2.43	37.74	178	1,302
162+25.00	2.88	33.73	2.73	32.20	181	1,334
162+50.00	4.47	32.51	3.40	30.66	184	1,365
162+65.71	3.83	32.75	2.41	18.98	187	1,384
162+75.00	3.40	32.92	1.25	11.30	188	1,395
163+00.00	2.51	33.47	2.74	30.73	191	1,426
163+25.00	3.05	29.42	2.57	29.11	193	1,455

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
163+50.00	6.24	18.91	4.30	22.38	198	1,478
163+75.00	10.62	10.46	7.81	13.60	205	1,491
164+00.00	12.54	7.36	10.72	8.25	216	1,499
164+20.75	16.34	2.18	11.10	3.67	227	1,503
164+50.00	14.64	3.66	16.78	3.16	244	1,506
165+00.00	8.28	9.97	21.23	12.62	265	1,519
165+42.78	4.76	19.30	10.34	23.18	276	1,542
165+97.03	1.12	15.81	5.91	35.27	282	1,577
166+00.00	1.51	15.07	0.14	1.70	282	1,579
166+25.00	1.24	14.70	1.27	13.78	283	1,593
166+50.00	2.02	14.38	1.51	13.47	284	1,606
166+61.58	3.28	12.41	1.14	5.75	286	1,612
166+75.00	1.41	9.05	1.17	5.33	287	1,617
167+00.00	2.33	7.65	1.73	7.73	289	1,625
167+25.00	1.93	8.48	1.97	7.47	290	1,633
167+26.14	1.88	8.52	0.08	0.36	291	1,633
167+50.00	2.08	8.16	1.75	7.37	292	1,640
168+00.00	5.66	5.15	7.16	12.32	299	1,653
168+50.00	7.20	3.82	11.91	8.30	311	1,661
169+00.00	6.13	6.22	12.34	9.30	324	1,670

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
169+50.00	4.09	8.25	9.46	13.41	333	1,684
170+00.00	3.90	14.31	7.40	20.89	341	1,705
170+50.00	4.10	13.04	7.41	25.33	348	1,730
171+00.00	4.03	7.33	7.53	18.86	356	1,749
171+50.00	1.62	11.91	5.23	17.81	361	1,767
172+00.00	3.63	8.12	4.86	18.55	366	1,785
172+50.00	7.09	9.83	9.93	16.63	376	1,802
173+00.00	9.89	10.30	15.72	18.64	391	1,820
173+50.00	6.61	10.20	15.28	18.98	407	1,839
174+00.00	5.57	7.90	11.28	16.76	418	1,856
174+50.00	4.36	8.94	9.20	15.60	427	1,872
175+00.00	2.33	12.21	6.20	19.58	433	1,891
175+50.00	1.17	11.97	3.24	22.38	436	1,914
176+00.00	4.39	9.86	5.14	20.21	442	1,934
176+05.74	4.33	9.12	0.93	2.02	443	1,936
176+25.00	3.22	6.90	2.69	5.71	445	1,942
176+50.00	2.14	6.54	2.48	6.22	448	1,948
176+53.72	2.35	6.38	0.31	0.89	448	1,949
176+75.00	3.31	6.24	2.23	4.97	450	1,954
177+00.00	3.55	8.40	3.18	6.78	453	1,960

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
177+01.70	3.42	8.53	0.22	0.53	454	1,961
177+25.00	3.01	10.91	2.80	8.37	456	1,969
177+27.55	3.06	11.21	0.29	1.04	457	1,970
177+50.00	2.26	12.76	2.20	9.97	459	1,980
177+53.40	2.73	12.82	0.31	1.61	459	1,982
177+70.51	5.33	11.96	2.55	7.85	462	1,990
177+75.00	25.77	11.28	2.69	1.92	464	1,992
178+00.00	35.16	2.26	29.29	6.21	494	1,998
178+03.23	40.17	1.42	4.51	0.22	498	1,998
178+25.00	78.31	0.01	49.30	0.58	548	1,999
178+35.96	93.47	0.00	35.89	0.00	583	1,999
178+50.00	88.26	0.00	47.26	0.00	631	1,999
178+62.53	1.26	10.80	20.77	2.51	651	2,001
178+66.85	0.00	13.32	0.10	1.93	652	2,003

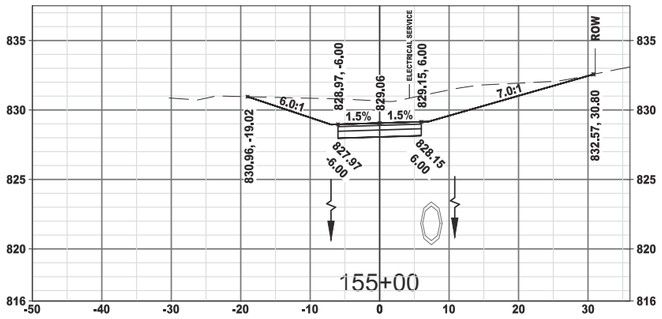
NOTE: A SHRINKAGE FACTOR HAS NOT BEEN APPLIED TO THE EARTHWORK QUANTITY TABLES.

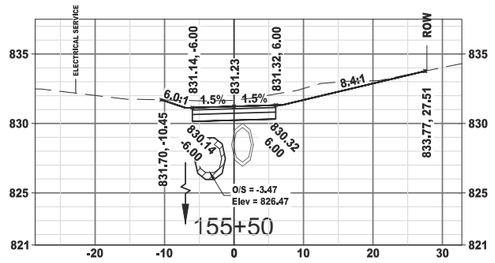
CROSS-SECTIONS (ANJALI WAY TO VAUGHNDALE DRIVE) - EARTHWORK SUMMARY

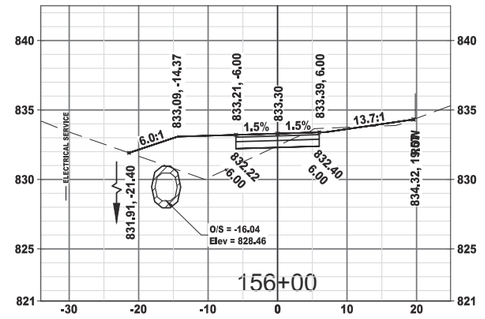
CONTRACT: 85741

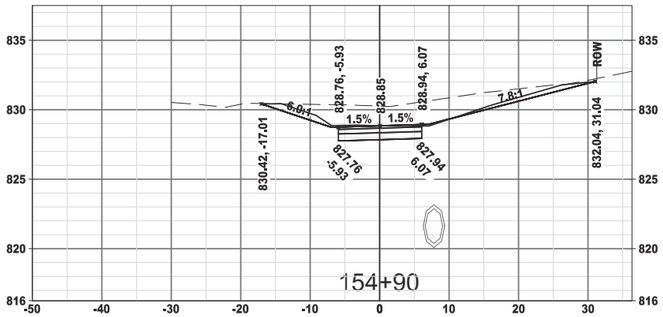
ROUTE	SECTION	SHEET
11	21-00633-01-BT	27 OF 52

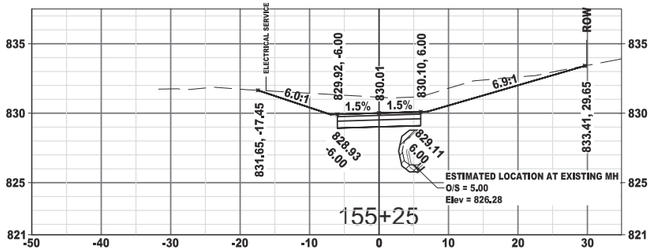
Cross-Section Details

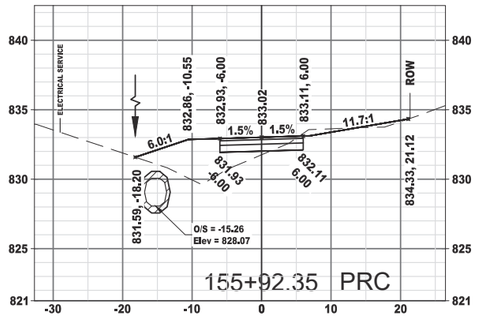


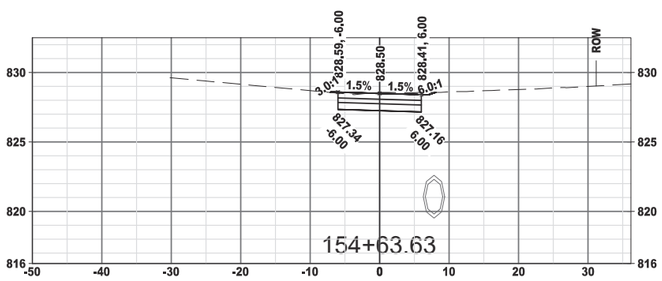


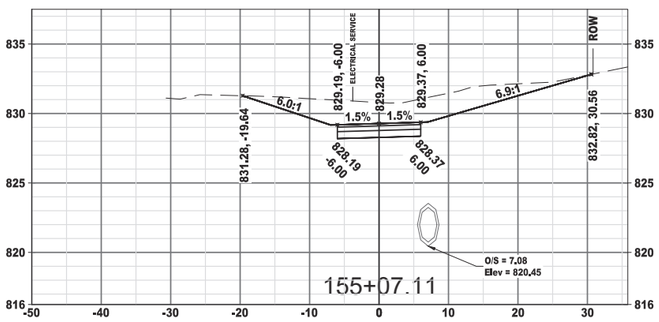


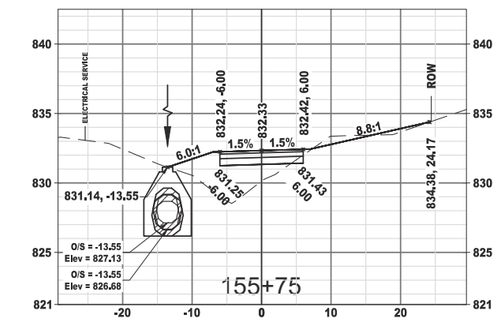




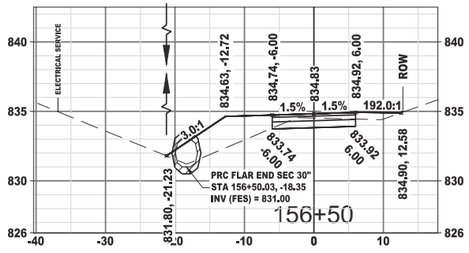


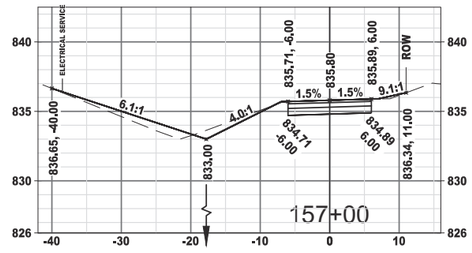


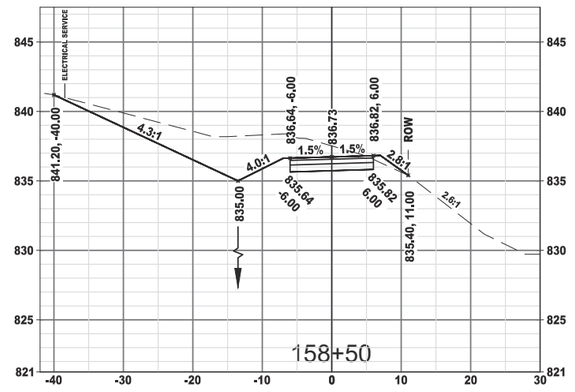




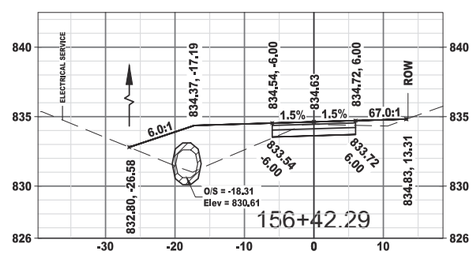
CROSS-SECTIONS (ANJALI WAY TO VAUGHNDALE DRIVE)



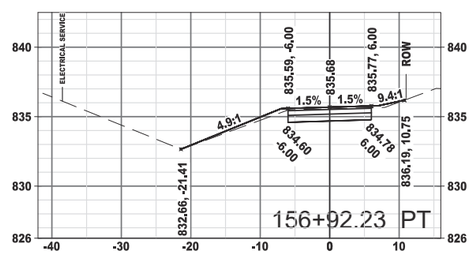


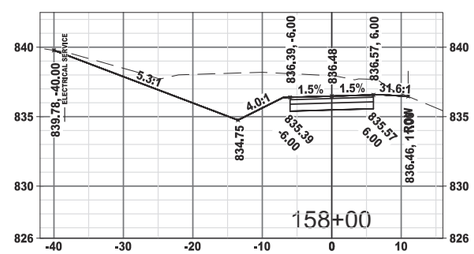


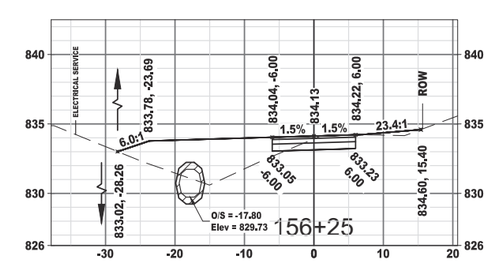
BEGIN 1' DITCH BOTTOM LT

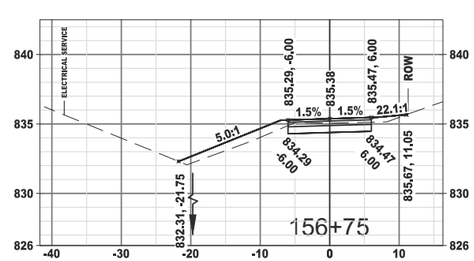


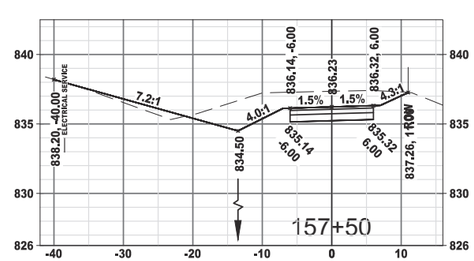
CURVE MIDPOINT

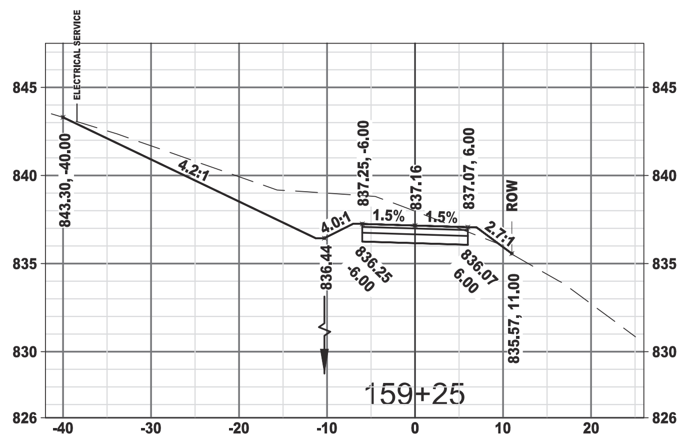


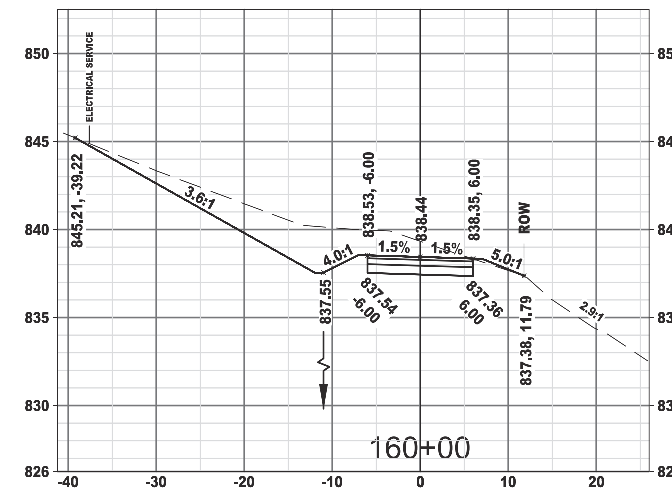


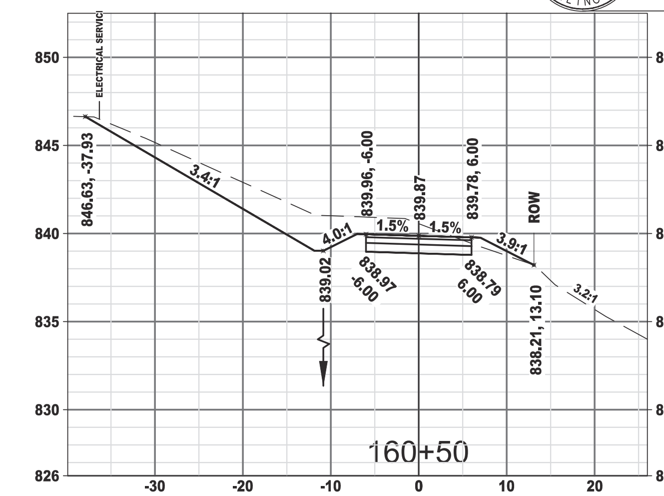


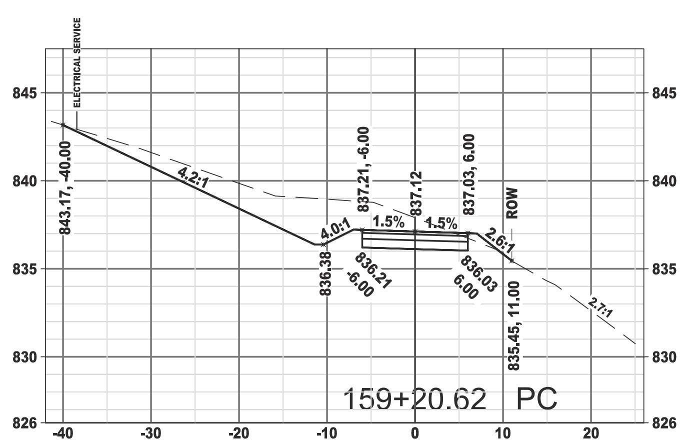


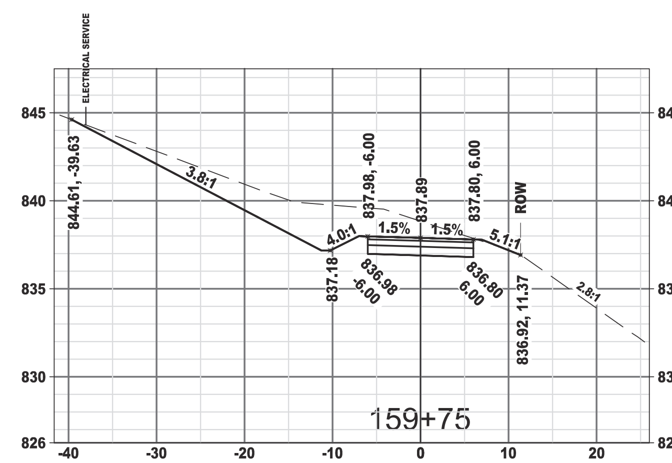


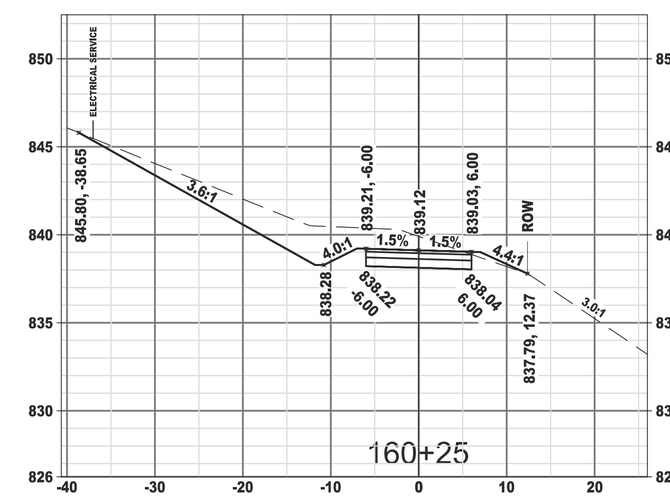


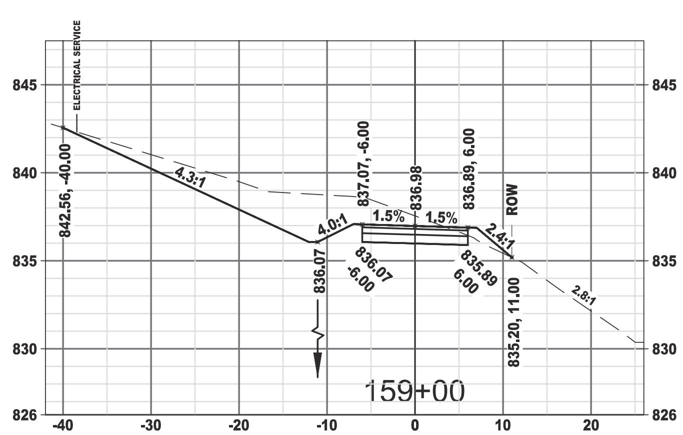


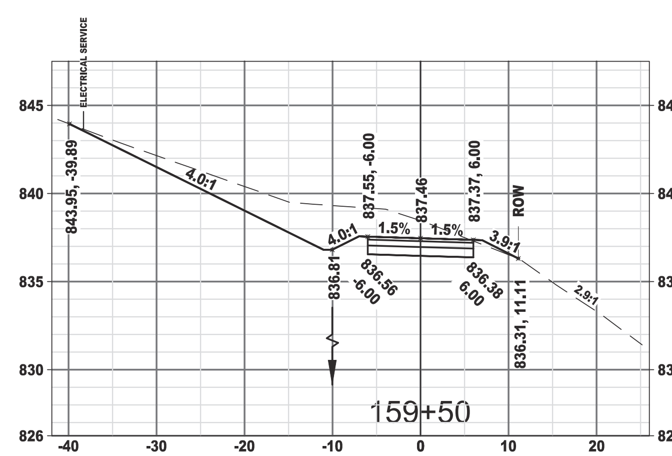


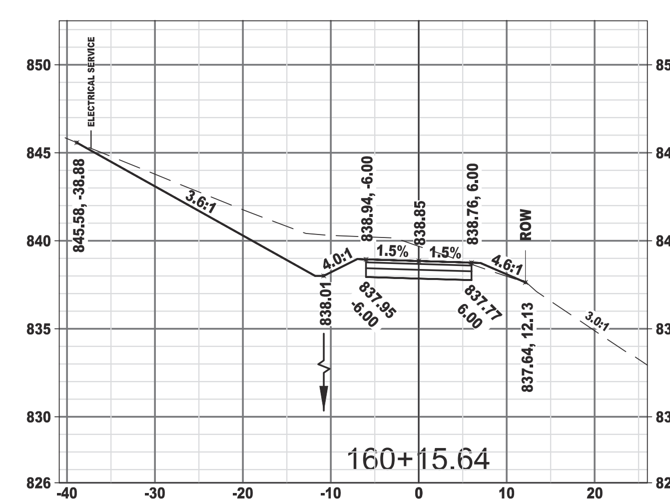




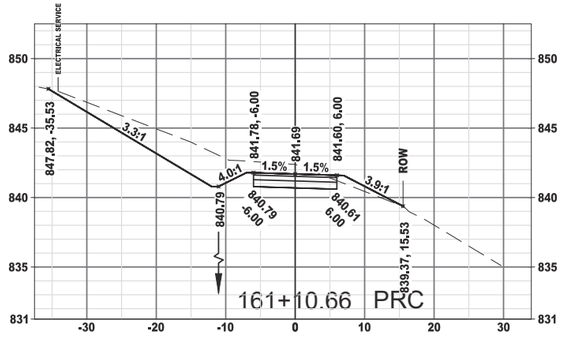


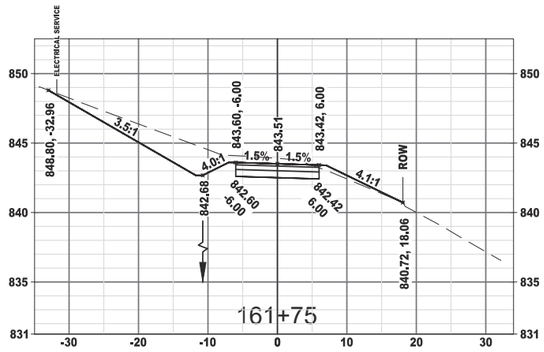


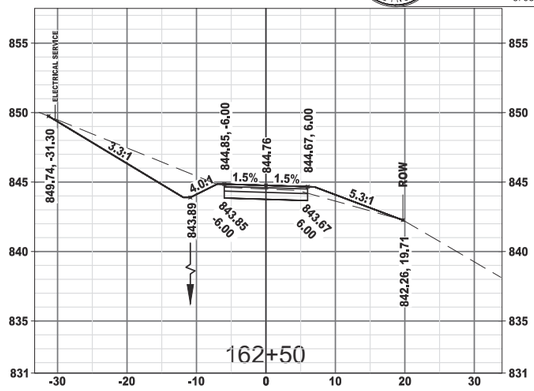


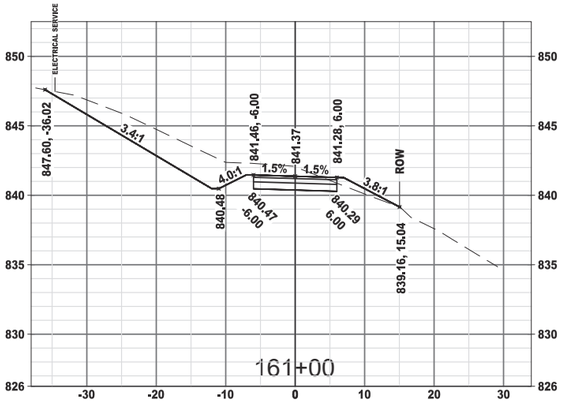


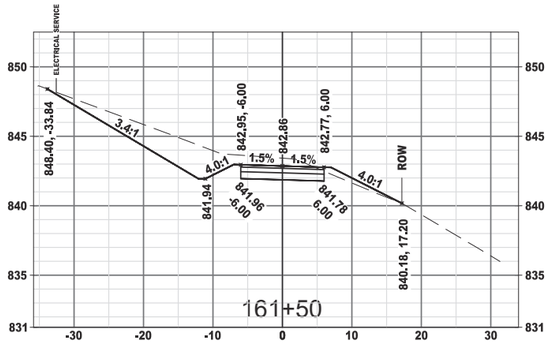
CURVE MIDPOINT

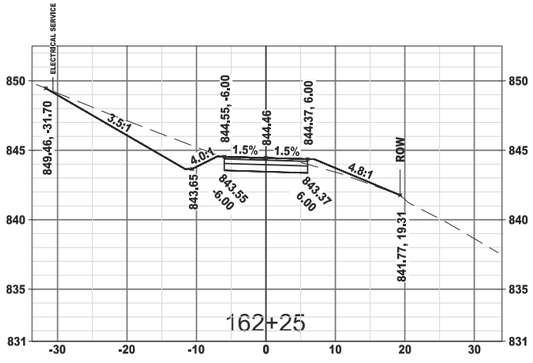

ELECTRICAL SERVICE
847.82, -35.53
3.1:1
4.0:1
841.78, -6.00
841.69
841.60, 6.00
1.5%
1.5%
3.9:1
ROW
840.79
840.79
-6.00
840.61
6.00
839.37, 15.53
161+10.66 PRC

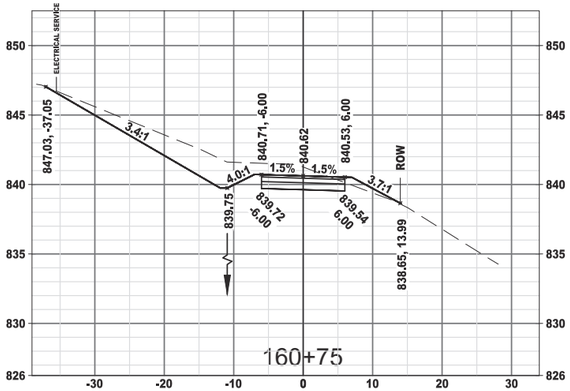

ELECTRICAL SERVICE
848.80, -32.96
3.5:1
4.0:1
843.60, -6.00
843.51
843.42, 6.00
1.5%
1.5%
4.1:1
ROW
842.68
842.60
-6.00
842.42
6.00
840.72, 18.06
161+75

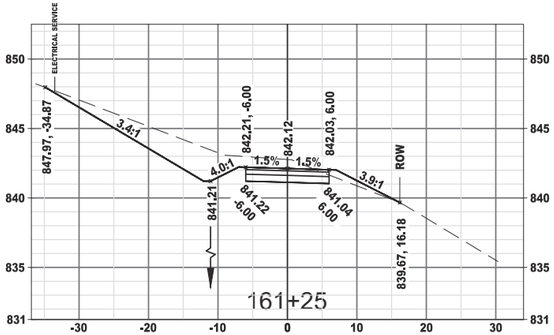

ELECTRICAL SERVICE
849.74, -31.30
3.1:1
4.0:1
844.85, -6.00
844.76
844.67, 6.00
1.5%
1.5%
5.3:1
ROW
843.89
843.85
-6.00
843.67
6.00
842.26, 19.71
162+50

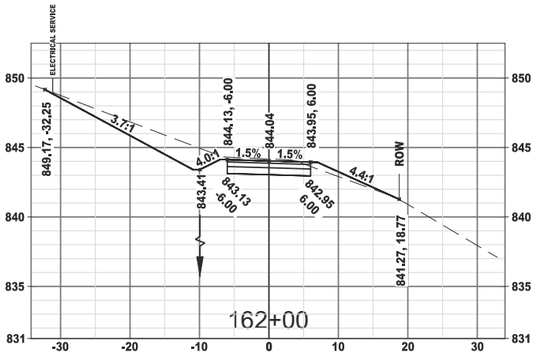

ELECTRICAL SERVICE
847.60, -36.02
3.4:1
4.0:1
841.46, -6.00
841.37
841.28, 6.00
1.5%
1.5%
3.8:1
ROW
840.48
840.47
-6.00
840.29
6.00
839.16, 15.04
161+00

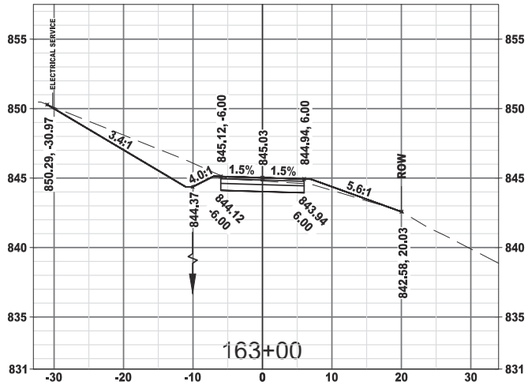

ELECTRICAL SERVICE
848.40, -33.84
3.4:1
4.0:1
842.95, -6.00
842.86
842.77, 6.00
1.5%
1.5%
4.0:1
ROW
841.94
841.96
-6.00
841.78
6.00
840.18, 17.20
161+50

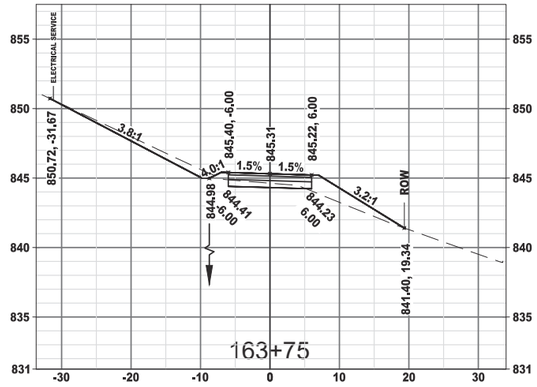

ELECTRICAL SERVICE
849.46, -31.70
3.5:1
4.0:1
844.55, -6.00
844.46
844.37, 6.00
1.5%
1.5%
4.8:1
ROW
843.65
843.55
-6.00
843.37
6.00
841.77, 19.31
162+25

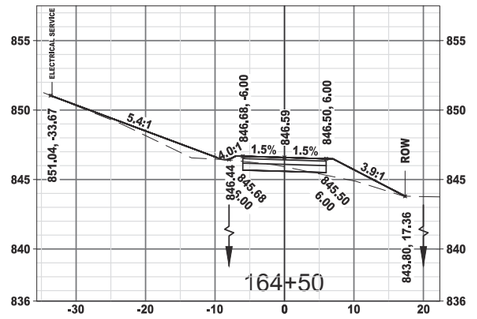

ELECTRICAL SERVICE
847.03, -37.05
3.4:1
4.0:1
840.71, -6.00
840.62
840.53, 6.00
1.5%
1.5%
3.7:1
ROW
839.75
839.72
-6.00
839.54
6.00
838.65, 13.99
160+75

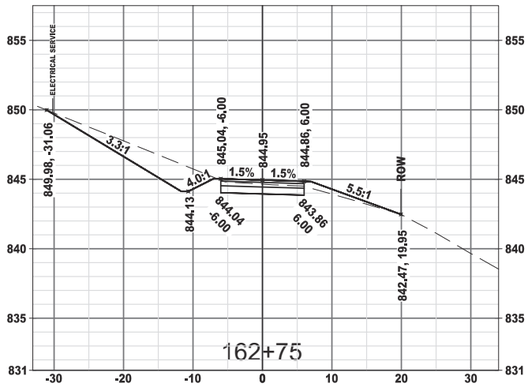

ELECTRICAL SERVICE
847.97, -34.87
3.4:1
4.0:1
842.21, -6.00
842.12
842.03, 6.00
1.5%
1.5%
3.9:1
ROW
841.21
841.22
-6.00
841.04
6.00
839.67, 16.18
161+25

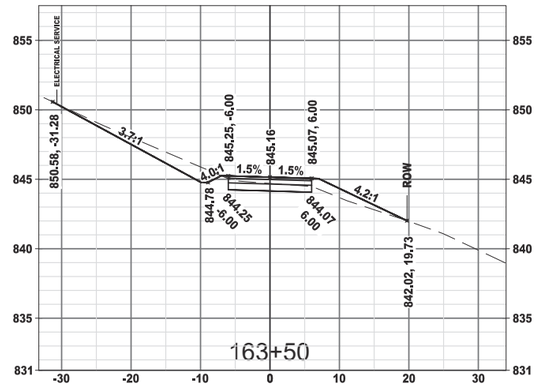

ELECTRICAL SERVICE
849.17, -32.25
3.7:1
4.0:1
844.13, -6.00
844.04
843.95, 6.00
1.5%
1.5%
4.4:1
ROW
843.41
843.13
-6.00
842.95
6.00
841.27, 18.77
162+00

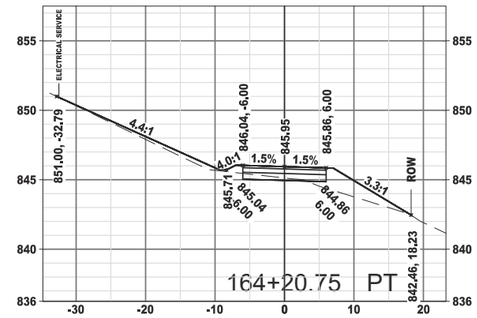

ELECTRICAL SERVICE
850.29, -30.97
3.4:1
4.0:1
845.12, -6.00
845.03
844.94, 6.00
1.5%
1.5%
5.6:1
ROW
844.37
-6.00
844.12
6.00
843.94
842.58, 20.03
163+00

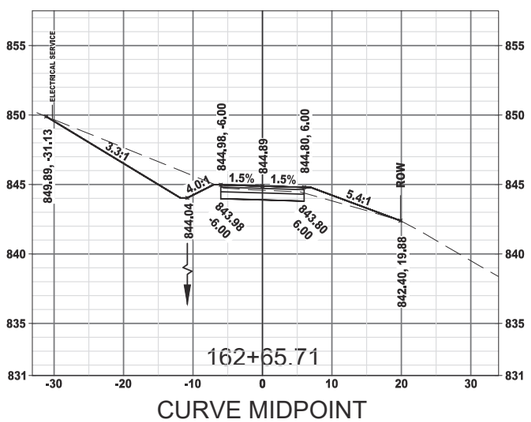

ELECTRICAL SERVICE
850.72, -31.67
3.8:1
4.0:1
845.40, -6.00
845.31
845.22, 6.00
1.5%
1.5%
3.2:1
ROW
844.98
-6.00
844.41
6.00
844.23
841.40, 19.34
163+75

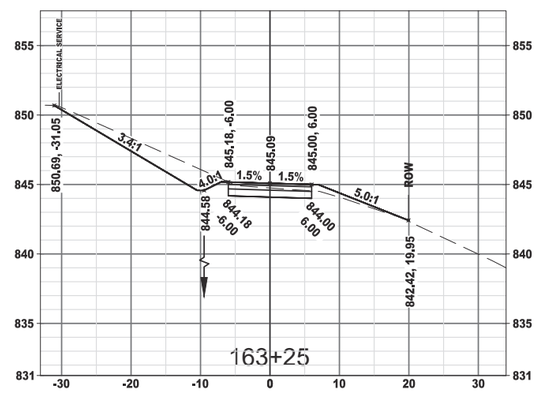

ELECTRICAL SERVICE
851.04, -33.67
5.4:1
4.0:1
846.68, 6.00
846.59
846.50, 6.00
1.5%
1.5%
3.9:1
ROW
846.44
-6.00
845.68
6.00
845.50
843.80, 17.36
164+50

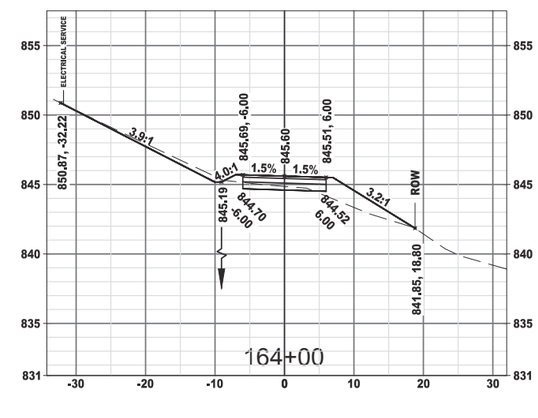

ELECTRICAL SERVICE
849.98, -31.06
3.3:1
4.0:1
845.04, -6.00
844.95
844.86, 6.00
1.5%
1.5%
5.5:1
ROW
844.13
-6.00
844.04
6.00
843.86
842.47, 19.95
162+75

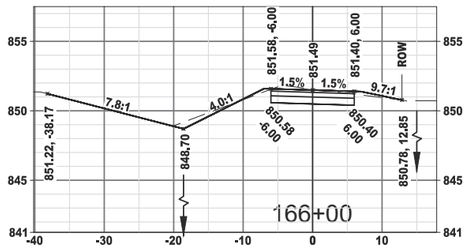

ELECTRICAL SERVICE
850.58, -31.28
3.7:1
4.0:1
845.25, -6.00
845.16
845.07, 6.00
1.5%
1.5%
4.2:1
ROW
844.76
-6.00
844.25
6.00
844.07
842.02, 19.73
163+50

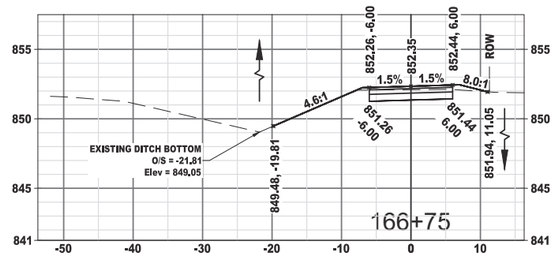

ELECTRICAL SERVICE
851.00, -32.79
4.4:1
4.0:1
846.04, -6.00
845.95
845.86, 6.00
1.5%
1.5%
3.3:1
ROW
845.71
-6.00
845.04
6.00
844.86
842.46, 18.23
164+20.75 PT


ELECTRICAL SERVICE
849.89, -31.13
3.3:1
4.0:1
844.98, -6.00
844.89
844.80, 6.00
1.5%
1.5%
5.4:1
ROW
844.04
-6.00
843.98
6.00
843.80
842.40, 19.88
162+65.71
CURVE MIDPOINT

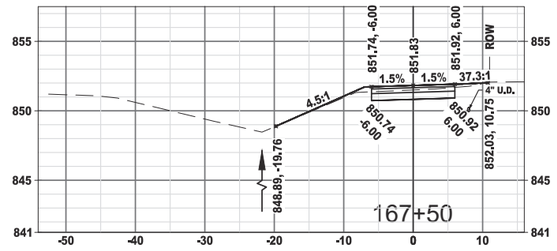

ELECTRICAL SERVICE
850.69, -31.05
3.4:1
4.0:1
845.18, -6.00
845.09
845.00, 6.00
1.5%
1.5%
5.0:1
ROW
844.58
-6.00
844.18
6.00
844.00
842.42, 19.95
163+25

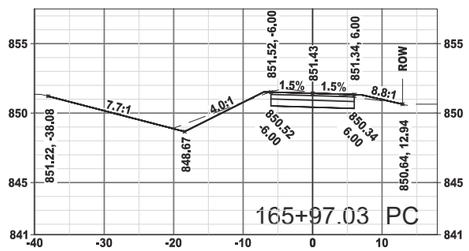

ELECTRICAL SERVICE
850.87, -32.22
3.9:1
4.0:1
845.69, -6.00
845.60
845.51, 6.00
1.5%
1.5%
3.2:1
ROW
845.19
-6.00
844.70
6.00
844.52
841.85, 18.80
164+00

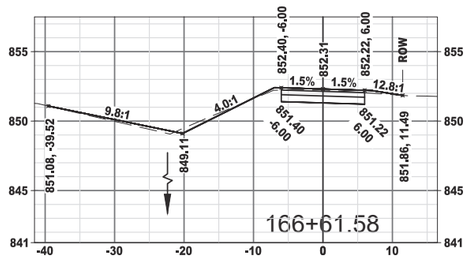




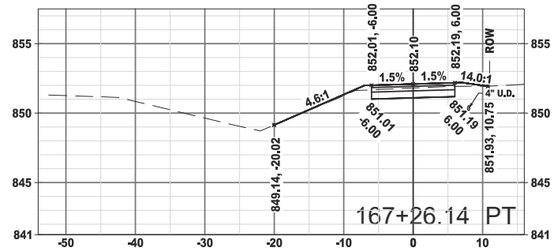
CL HIGHPOINT - STA 166+77.65

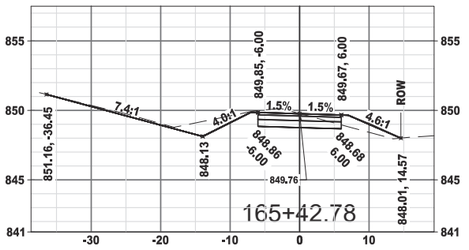




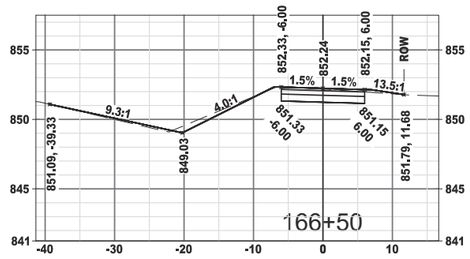


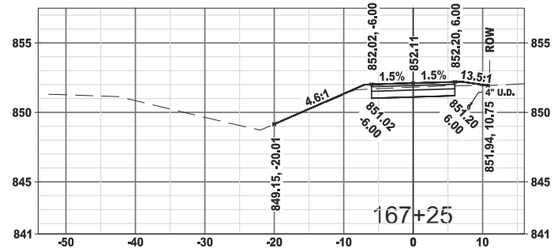
CURVE MIDPOINT

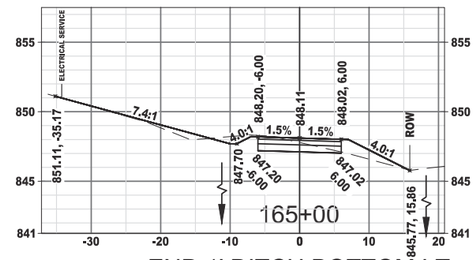




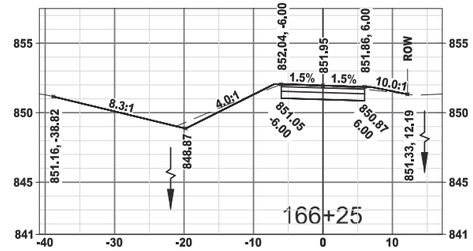
ELECTRICAL SERVICE CROSSES PATH

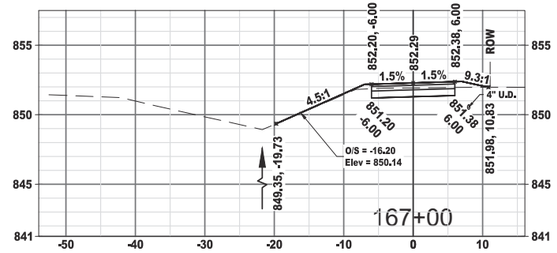


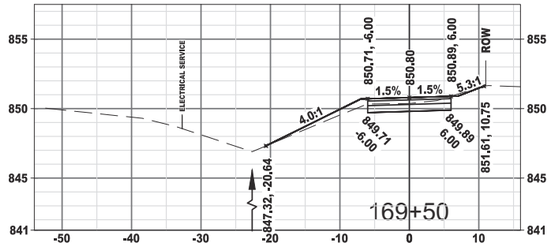


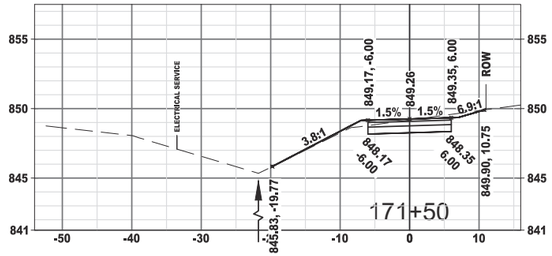


END 1' DITCH BOTTOM LT

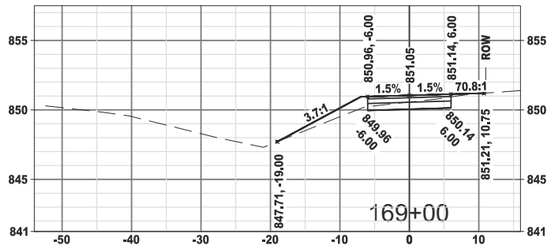


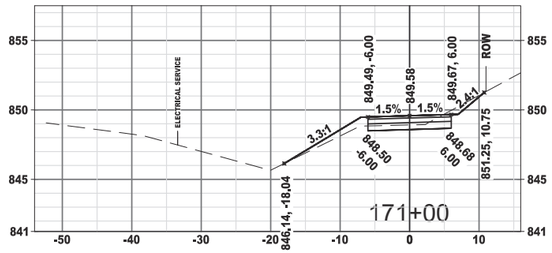


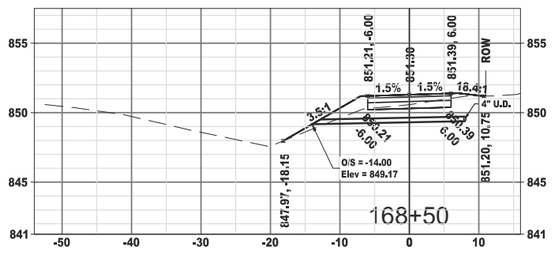




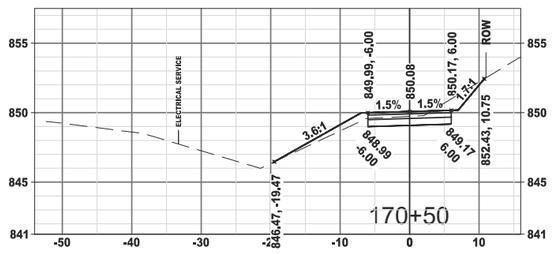
ELECTRICAL SERVICE CROSSES PATH AT STA 169+21

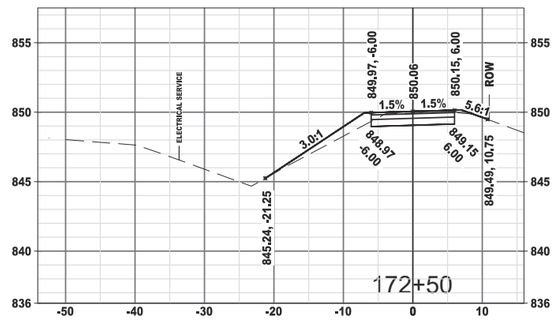


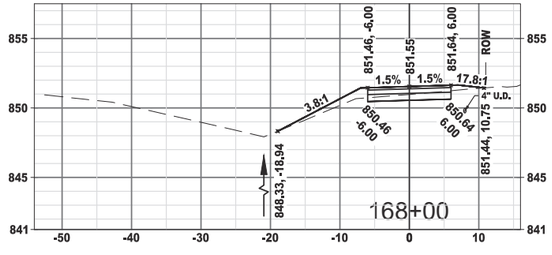


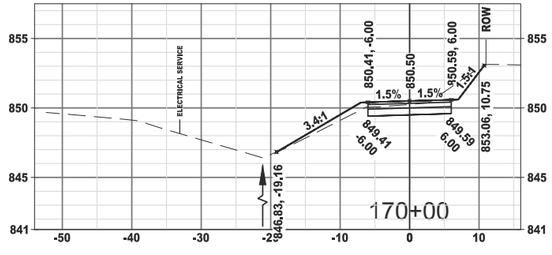


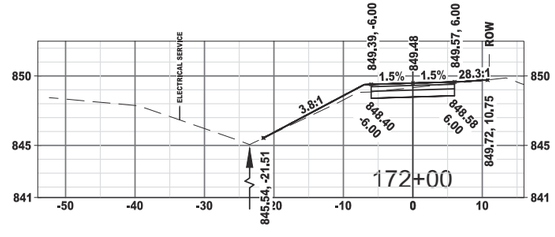
STA 168+50 RT: END 4" UNDERDRAIN & OUTLET LT

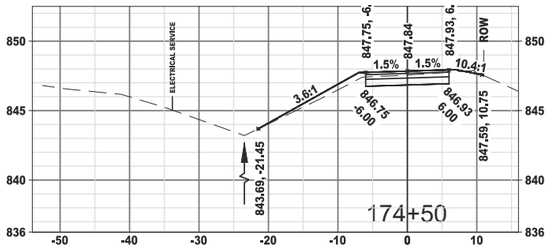


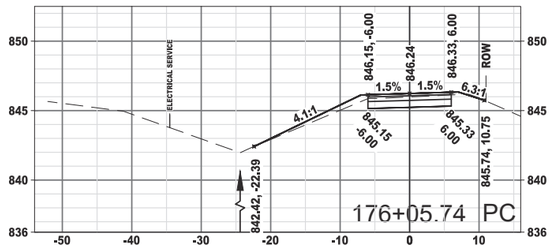


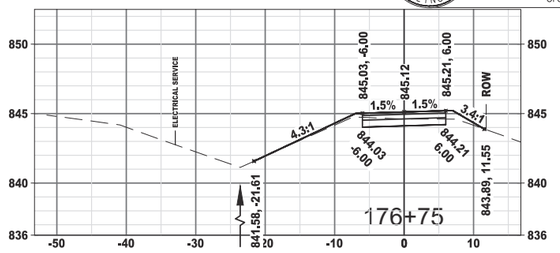


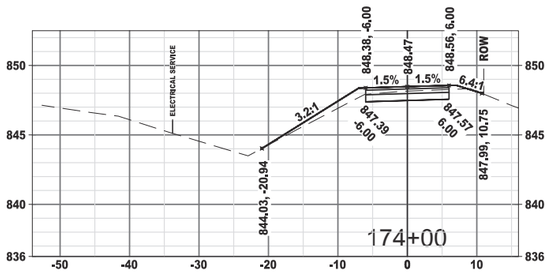


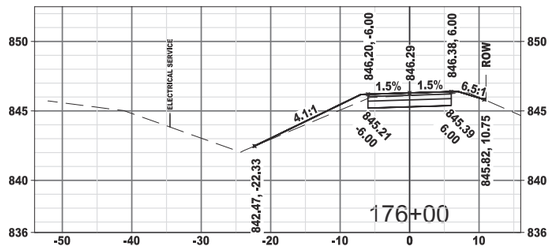


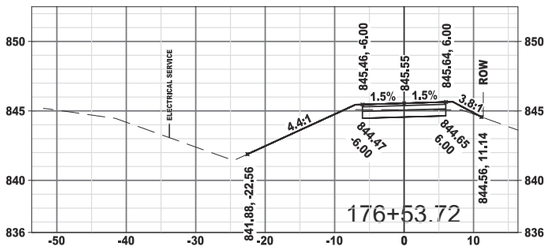

ELECTRICAL SERVICE
847.75, -6.00
847.84
847.93, 6.00
ROW
1.5%
1.5%
10.4:1
3.6:1
846.75
-6.00
846.93
6.00
847.59, 10.75
843.69, -21.45
174+50

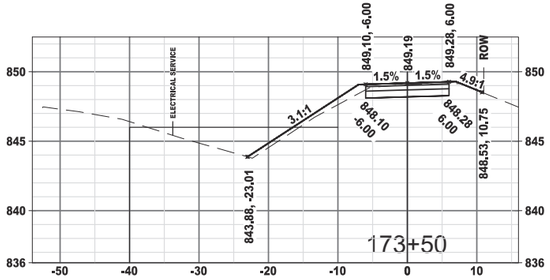

ELECTRICAL SERVICE
846.15, -6.00
846.24
846.33, 6.00
ROW
1.5%
1.5%
6.3:1
4.1:1
845.15
-6.00
845.33
6.00
845.74, 10.75
842.42, -22.39
176+05.74 PC

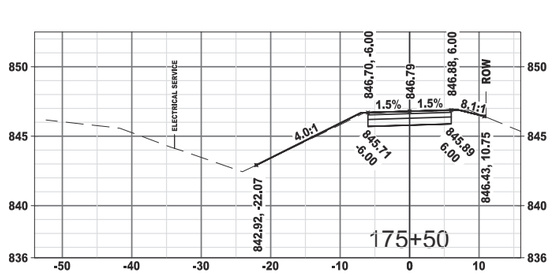

ELECTRICAL SERVICE
845.03, -6.00
845.12
845.21, 6.00
ROW
1.5%
1.5%
3.4:1
4.3:1
844.03
-6.00
844.21
6.00
843.89, 11.55
841.58, -21.61
176+75

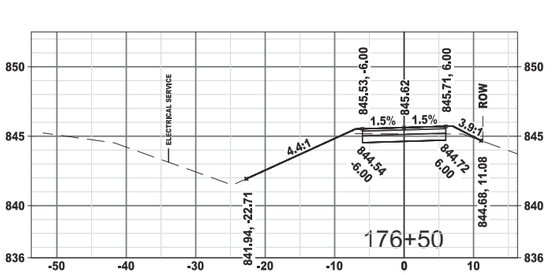

ELECTRICAL SERVICE
848.38, -6.00
848.47
848.56, 6.00
ROW
1.5%
1.5%
6.4:1
3.2:1
847.39
-6.00
847.57
6.00
847.99, 10.75
844.03, -20.94
174+00

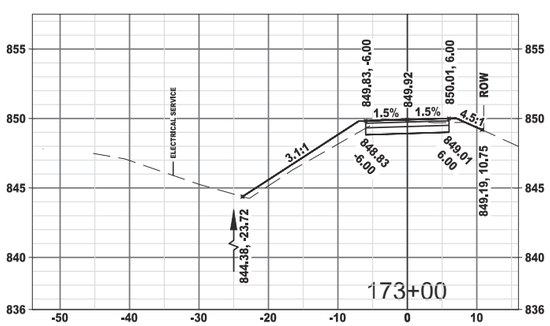

ELECTRICAL SERVICE
846.20, -6.00
846.29
846.38, 6.00
ROW
1.5%
1.5%
6.5:1
4.1:1
845.21
-6.00
845.39
6.00
845.82, 10.75
842.47, -22.33
176+00

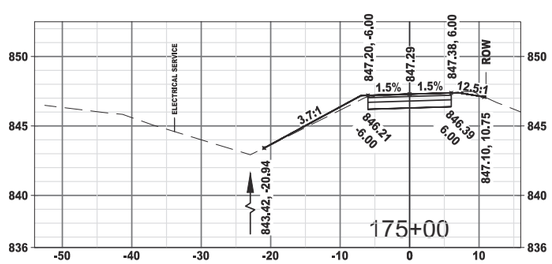

ELECTRICAL SERVICE
845.46, -6.00
845.55
845.64, 6.00
ROW
1.5%
1.5%
3.8:1
4.4:1
844.47
-6.00
844.65
6.00
844.56, 11.14
841.88, -22.56
176+53.72
CURVE MIDPOINT

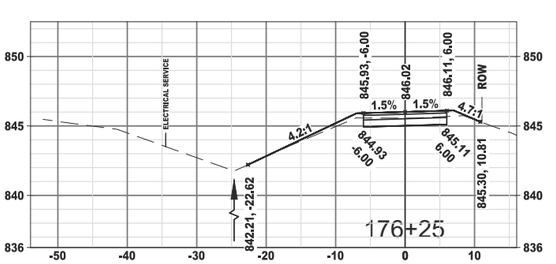

ELECTRICAL SERVICE
849.10, -6.00
849.19
849.28, 6.00
ROW
1.5%
1.5%
4.9:1
3.1:1
848.10
-6.00
848.28
6.00
848.53, 10.75
843.88, -23.01
173+50

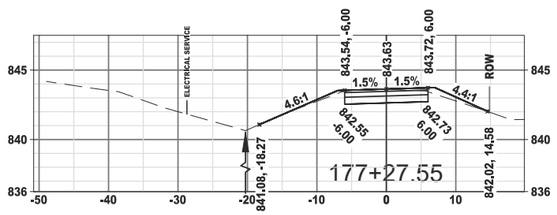

ELECTRICAL SERVICE
846.70, -6.00
846.79
846.88, 6.00
ROW
1.5%
1.5%
8.1:1
4.0:1
845.71
-6.00
845.89
6.00
846.43, 10.75
842.92, -22.07
175+50


ELECTRICAL SERVICE
845.53, -6.00
845.62
845.71, 6.00
ROW
1.5%
1.5%
3.9:1
4.4:1
844.54
-6.00
844.72
6.00
844.68, 11.08
841.94, -22.71
176+50

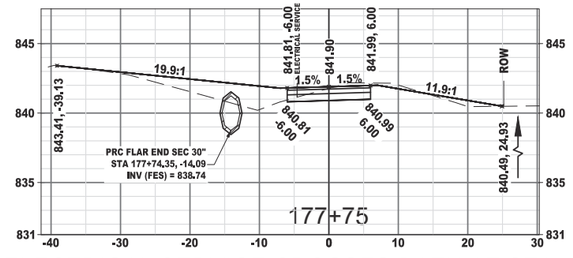

ELECTRICAL SERVICE
849.83, -6.00
849.92
850.01, 6.00
ROW
1.5%
1.5%
4.5:1
3.1:1
848.83
-6.00
849.01
6.00
849.19, 10.75
844.38, -23.72
173+00


ELECTRICAL SERVICE
847.20, -6.00
847.29
847.38, 6.00
ROW
1.5%
1.5%
12.5:1
3.7:1
846.21
-6.00
846.39
6.00
847.10, 10.75
843.42, -20.94
175+00

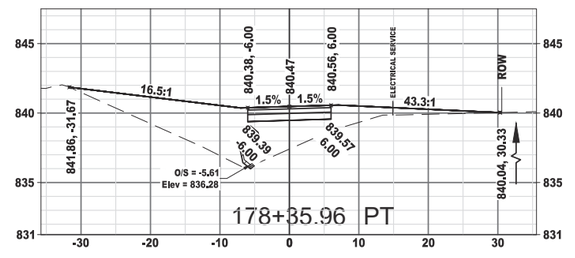

ELECTRICAL SERVICE
845.93, -6.00
846.02
846.11, 6.00
ROW
1.5%
1.5%
4.7:1
4.2:1
844.93
-6.00
845.11
6.00
845.30, 10.81
842.21, -22.62
176+25

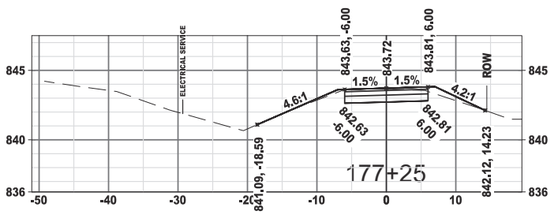


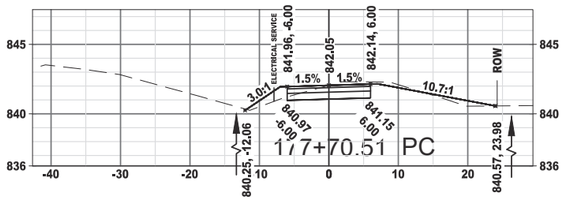
CURVE MIDPOINT

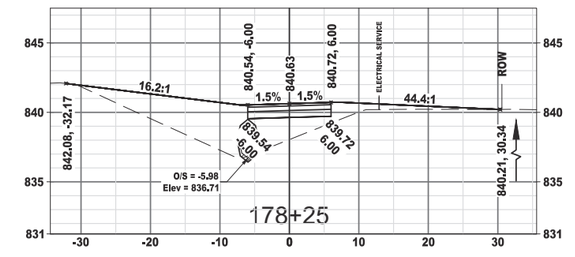


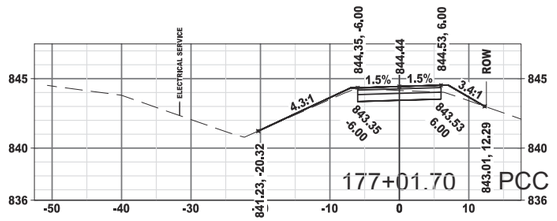
ELECTRICAL SERVICE CROSSES PATH AT STA 177+82

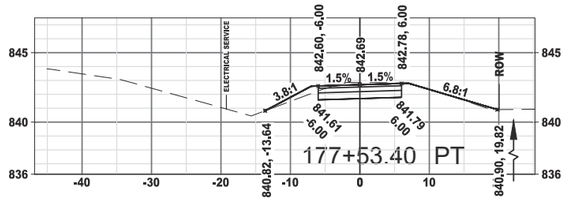


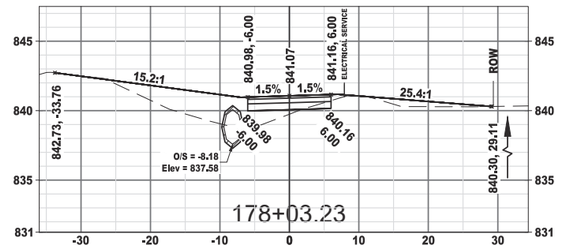




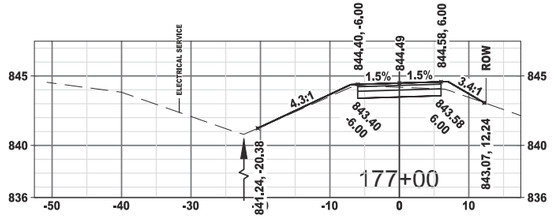


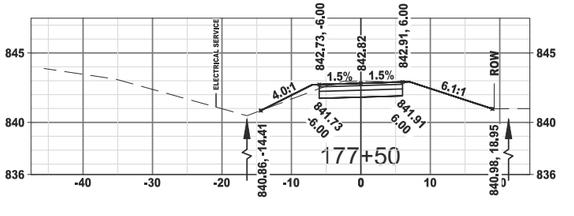


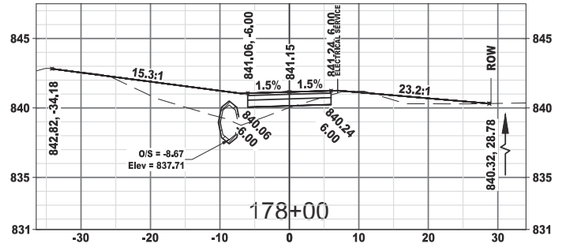


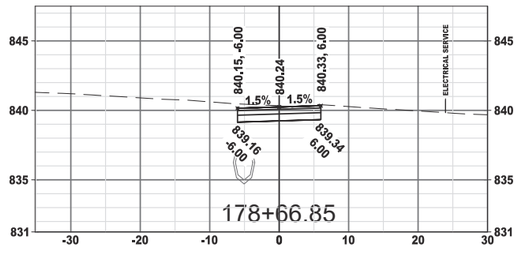


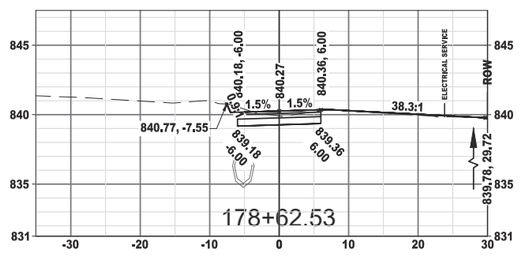
CURVE MIDPOINT

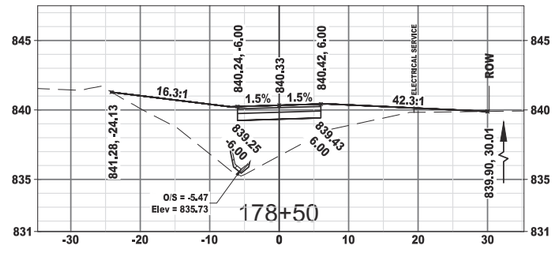







845
840
835
831
-30
-20
-10
0
10
20
30
840.15, -6.00
840.24
840.33, 6.00
1.5%
1.5%
ELECTRICAL SERVICE
839.16
-6.00
839.34
6.00
178+66.85


845
840
835
831
-30
-20
-10
0
10
20
30
840.18, -6.00
840.27
840.36, 6.00
ELECTRICAL SERVICE
ROW
0.9
1.5%
1.5%
38.3:1
840.77, -7.55
839.18
-6.00
839.36
6.00
839.78, 29.72
178+62.53


845
840
835
831
-30
-20
-10
0
10
20
30
840.24, -6.00
840.33
840.42, 6.00
ELECTRICAL SERVICE
ROW
16.3:1
1.5%
1.5%
42.3:1
841.28, -24.13
839.25
-6.00
839.43
6.00
839.90, 30.01
O/S = -5.47
Elev = 835.73
178+50

CONTRACT: 85741

ROUTE	SECTION	SHEET
11	21-00633-01-BT	37 OF 52

Cross-Section-Earthwork Summary

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
179+30.90	0.00	0.00	0.00	0.00	0	0
179+38.62	3.56	8.84	0.51	1.26	1	1
179+50.00	16.66	0.14	4.29	1.89	5	3
179+58.07	28.64	0.00	6.77	0.02	12	3
179+94.54	40.89	0.00	46.73	0.00	58	3
180+00.00	47.26	0.00	8.91	0.00	67	3
180+50.00	31.27	0.00	72.33	0.00	140	3
180+50.46	31.09	0.00	0.53	0.00	140	3
181+00.00	18.66	4.65	45.64	4.27	186	7
181+12.36	15.56	6.70	7.83	2.60	194	10
181+50.00	3.60	9.12	13.13	11.05	207	21
181+61.37	3.64	9.57	1.50	3.94	208	25
182+00.00	2.99	10.40	4.66	14.30	213	39
182+10.38	2.62	10.30	1.08	3.98	214	43
182+50.00	3.56	11.00	4.53	15.63	218	59
183+00.00	1.93	12.16	5.09	21.45	224	80
183+50.00	3.89	11.14	5.39	21.57	229	102
184+00.00	3.26	10.84	6.63	20.34	236	122
184+50.00	2.01	11.35	4.88	20.54	240	143
185+00.00	3.26	10.50	4.88	20.23	245	163

Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
185+50.00	4.86	9.70	7.52	18.70	253	182
186+00.00	6.01	9.57	10.06	17.85	263	200
186+50.00	5.81	9.34	10.94	17.52	274	217
186+67.57	4.19	9.45	3.26	6.11	277	223
187+00.00	3.76	9.76	4.78	11.53	282	235
187+50.00	2.82	9.95	6.09	18.25	288	253
188+00.00	2.29	9.61	4.73	18.11	293	271
188+50.00	3.10	8.29	4.99	16.57	298	288
189+00.00	1.59	9.17	4.34	16.17	302	304
189+50.00	0.99	9.90	2.38	17.66	304	322
190+00.00	3.39	7.49	4.05	16.10	308	338
190+50.00	3.51	7.24	6.38	13.64	315	351
191+00.00	4.46	8.00	7.37	14.12	322	365
191+50.00	2.95	8.81	6.86	15.57	329	381
192+00.00	1.97	8.90	4.56	16.40	334	397
192+50.00	1.17	17.12	2.91	24.09	337	421
193+00.00	2.23	8.31	3.14	23.54	340	445
193+50.00	0.93	12.47	2.92	19.24	343	464
194+00.00	8.96	10.17	9.16	20.96	352	485
194+50.00	3.08	11.76	11.15	20.30	363	505

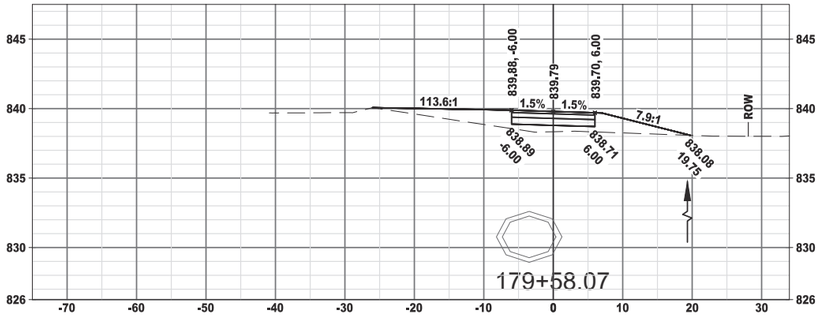
Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
195+00.00	27.29	10.94	28.12	21.02	391	527
195+50.00	25.41	9.81	48.80	19.21	440	546
195+91.33	12.42	11.42	28.95	16.24	469	562
196+00.00	11.04	11.54	3.77	3.68	473	566
196+50.00	9.25	11.08	18.62	20.95	491	587
197+00.00	7.98	7.94	15.85	17.62	507	604
197+11.50	7.09	7.53	3.21	3.30	510	608
197+35.76	30.73	22.48	16.99	13.48	527	621
197+50.00	37.72	13.00	18.05	9.35	545	630
198+00.00	44.32	13.32	75.50	23.99	621	654
198+31.67	52.76	6.55	56.93	11.65	678	666
198+50.00	46.94	7.79	33.85	4.87	712	671
199+00.00	53.12	23.08	92.40	28.94	804	700
199+50.00	65.73	41.39	109.46	60.25	913	760
200+00.00	76.36	35.44	130.58	71.70	1,044	832
200+50.00	13.88	21.88	82.89	53.38	1,127	885
200+85.24	2.16	24.01	10.41	30.03	1,137	915
201+00.00	1.04	24.67	0.87	13.31	1,138	928
201+50.00	0.00	27.61	0.96	48.45	1,139	977
202+00.00	0.00	25.09	0.00	48.75	1,139	1,026

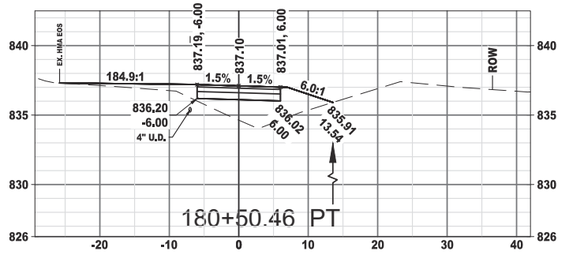
Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
202+50.00	0.00	26.64	0.00	47.81	1,139	1,073
203+00.00	0.00	23.81	0.00	46.59	1,139	1,120
203+38.81	0.00	21.67	0.00	32.56	1,139	1,153
203+50.00	0.05	21.80	0.01	9.01	1,139	1,162
204+00.00	0.00	28.82	0.05	46.71	1,139	1,208
204+50.00	0.00	54.06	0.00	76.49	1,139	1,285
205+00.00	0.00	35.97	0.00	83.12	1,139	1,368
205+50.00	0.00	36.37	0.00	66.80	1,139	1,435
206+00.00	0.00	32.00	0.00	63.13	1,139	1,498
206+50.00	0.00	29.99	0.00	57.22	1,139	1,555
207+00.00	0.18	23.28	0.17	49.17	1,139	1,604
207+50.00	0.00	24.05	0.17	43.70	1,140	1,648
208+00.00	0.00	31.73	0.00	51.50	1,140	1,699
208+50.00	0.00	40.06	0.00	66.29	1,140	1,766
209+00.00	0.00	35.95	0.00	70.21	1,140	1,836
209+50.00	3.34	13.96	3.10	46.10	1,143	1,882
209+53.51	4.15	12.91	0.49	1.75	1,143	1,884
210+00.00	7.50	10.03	10.03	19.75	1,153	1,904
210+50.00	4.44	10.56	11.06	19.03	1,164	1,923
211+00.00	7.76	5.78	11.29	15.11	1,175	1,938

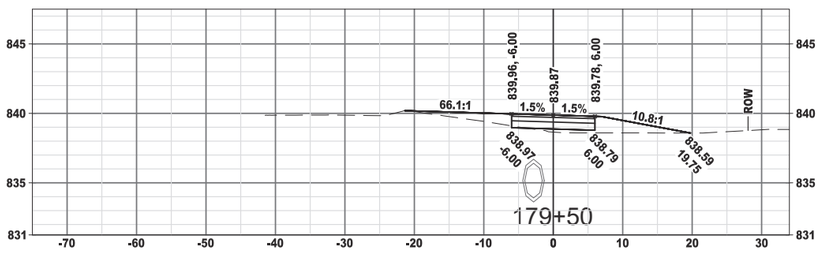
Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
211+50.00	3.56	11.16	10.49	15.65	1,186	1,953
212+00.00	2.04	12.16	5.20	21.55	1,191	1,975
212+50.00	0.13	20.21	2.02	29.93	1,193	2,005
213+00.00	0.86	14.43	0.92	32.06	1,194	2,037
213+50.00	0.03	21.08	0.83	32.90	1,195	2,070
214+00.00	0.28	18.45	0.29	36.64	1,195	2,106
214+50.00	4.27	6.43	4.19	23.06	1,199	2,129
215+00.00	17.86	0.53	20.44	6.45	1,220	2,136
215+28.97	27.67	0.04	24.42	0.31	1,244	2,136
215+50.00	27.73	0.11	21.58	0.06	1,266	2,136
215+68.21	24.79	0.31	17.71	0.14	1,284	2,136
216+00.00	29.35	0.08	31.56	0.23	1,315	2,137
216+34.21	20.43	0.87	31.29	0.61	1,346	2,137
217+00.00	1.39	41.77	26.58	51.95	1,373	2,189
217+07.04	2.27	39.10	0.48	10.54	1,373	2,200
217+28.13	0.08	43.30	0.90	32.14	1,374	2,232
217+50.00	0.76	36.94	0.34	32.49	1,375	2,264

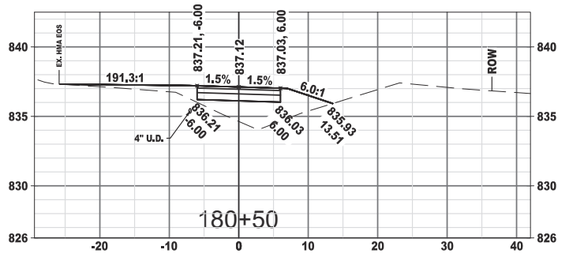
NOTE: A SHRINKAGE FACTOR HAS NOT BEEN APPLIED TO THE EARTHWORK QUANTITY TABLES.

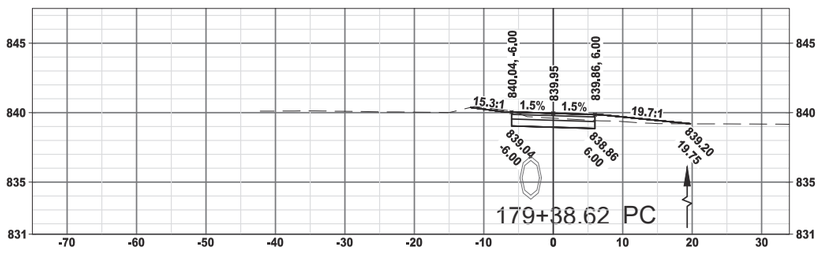
CROSS-SECTIONS (VAUGHNDALE DRIVE TO WILLOW BROOK LANE) - EARTHWORK SUMMARY

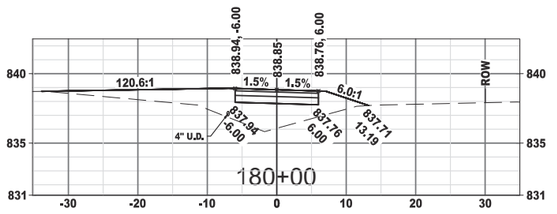




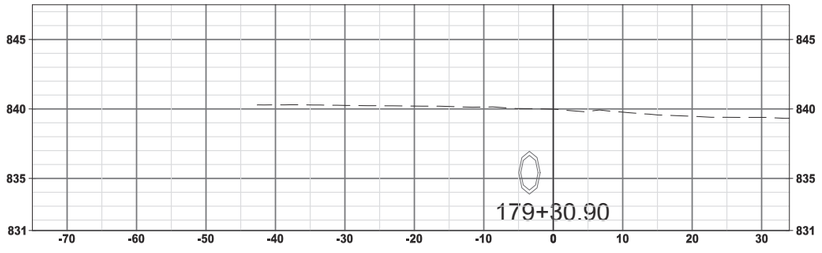


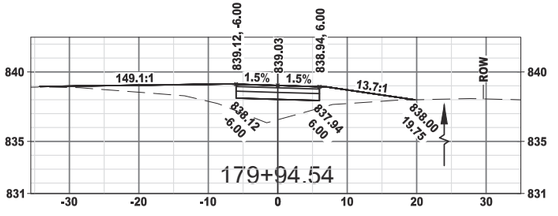




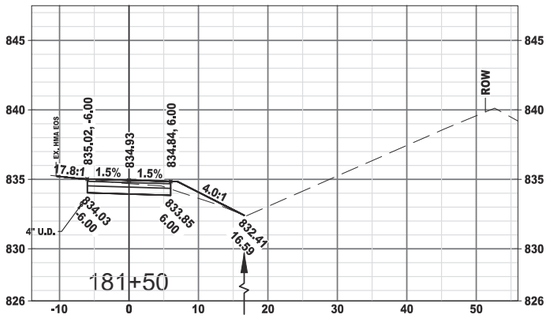


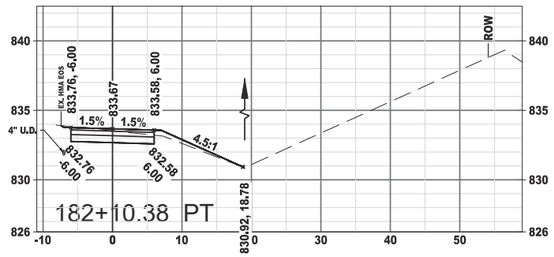
STA 180+00 LT: BEGIN 4" UNDERDRAIN

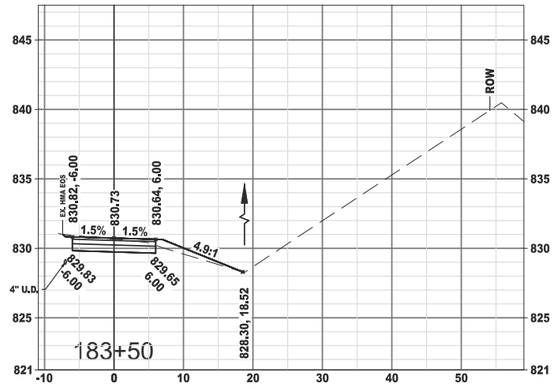


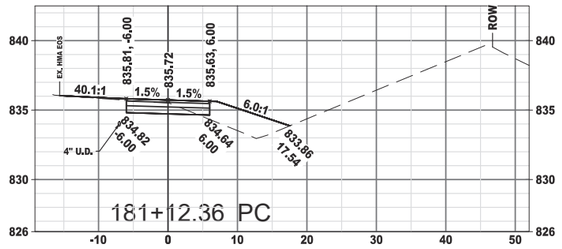


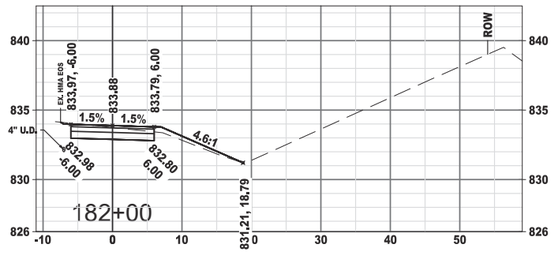
CURVE MIDPOINT

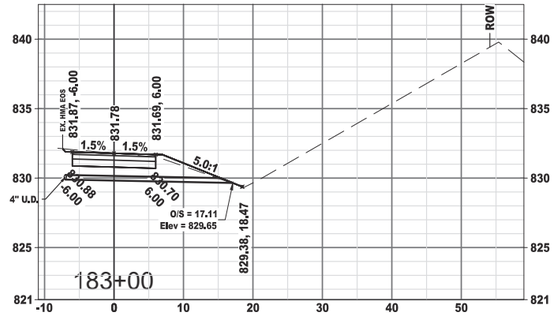




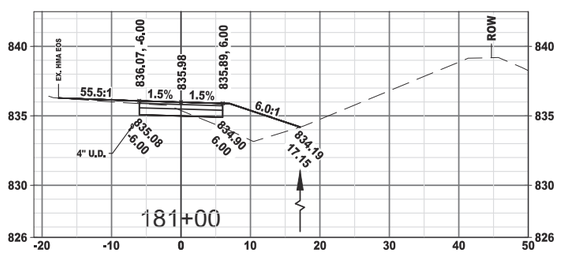


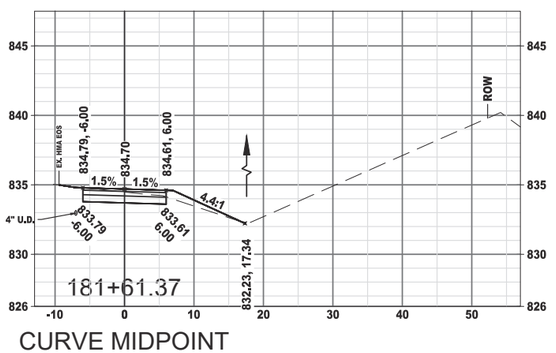




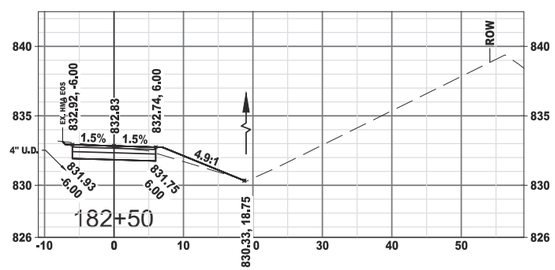


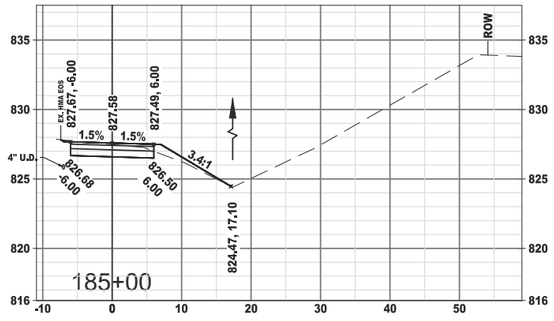
4" UNDERDRAIN OUTLET (EVERY 300')

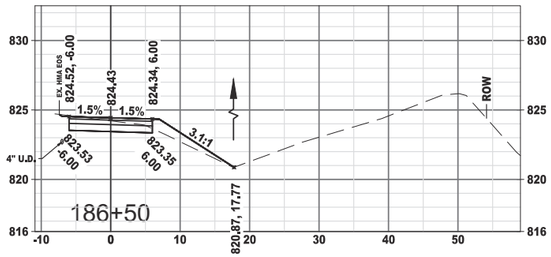


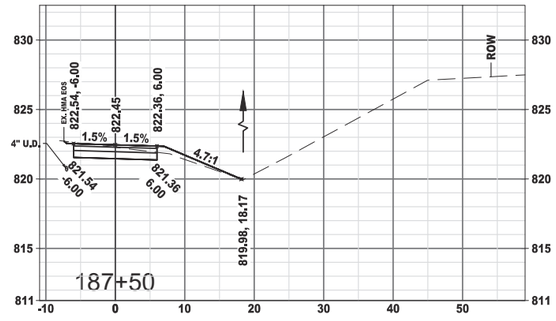


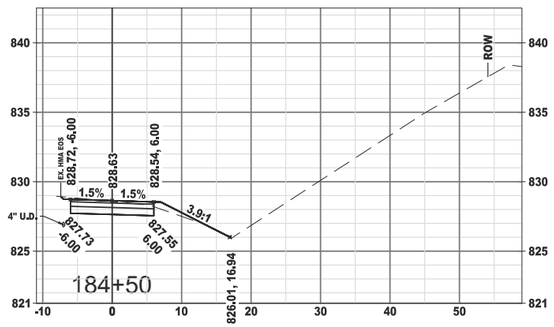
CURVE MIDPOINT

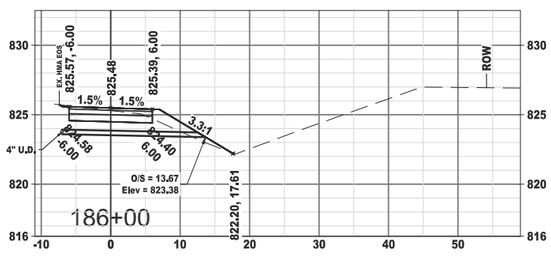


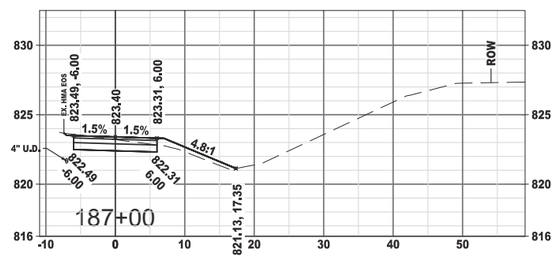




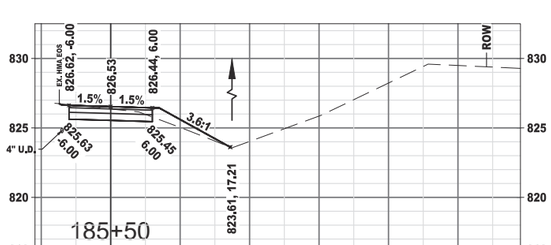


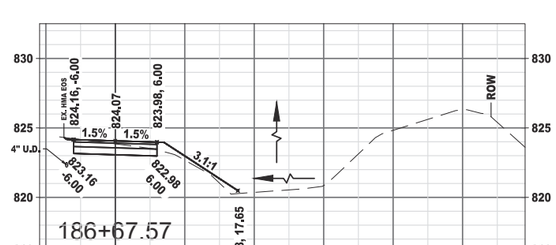




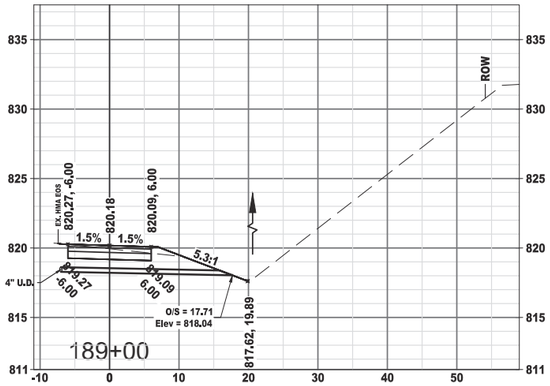


4" UNDERDRAIN OUTLET (EVERY 300')

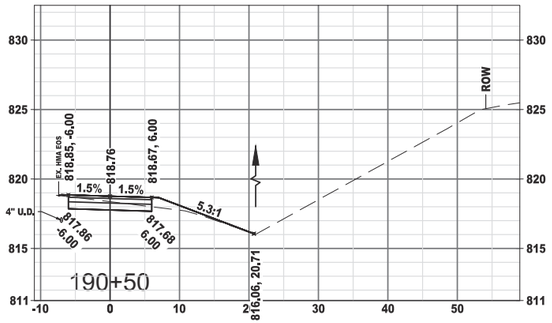


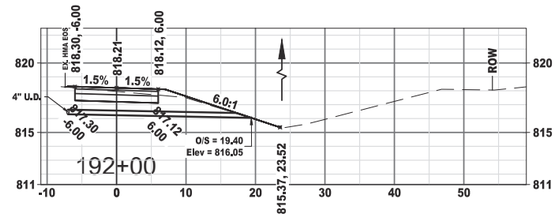


STA 186+69 RT (+/-): EXISTING 30" RCP
A/R CULVERT

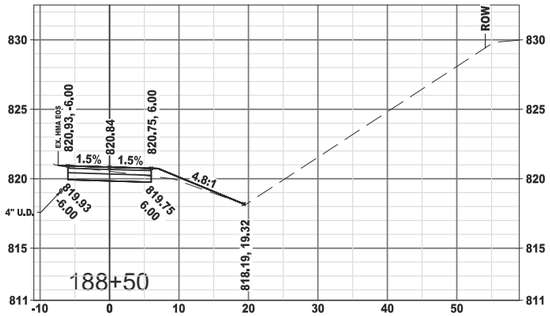


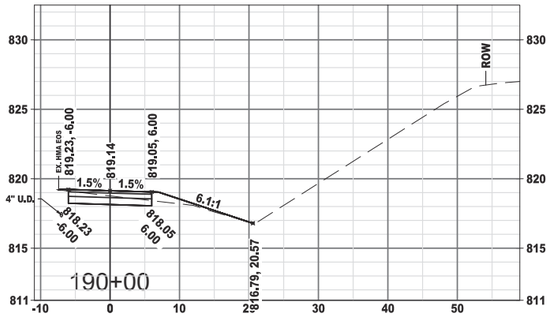
4" UNDERDRAIN OUTLET (EVERY 300')

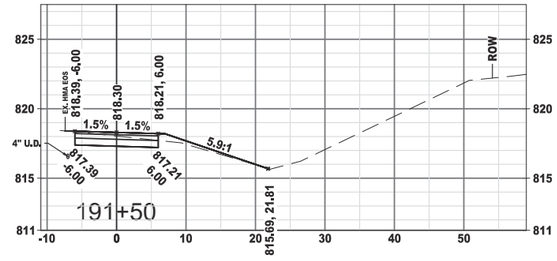


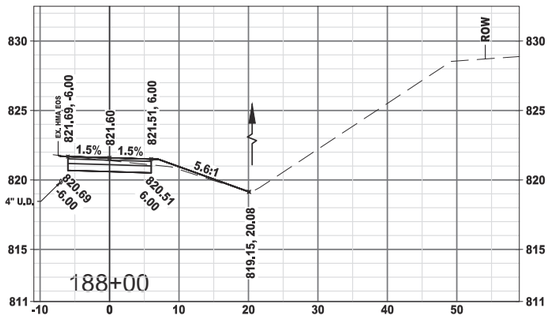


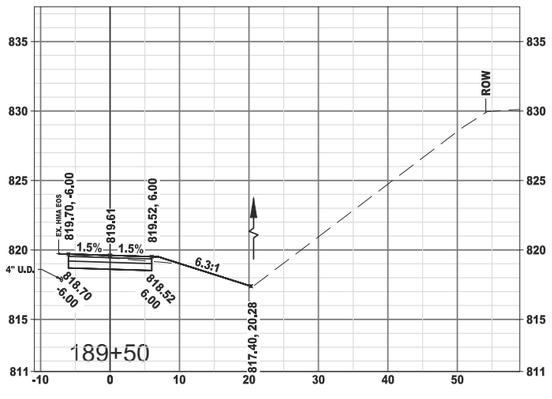
4" UNDERDRAIN OUTLET (EVERY 300')

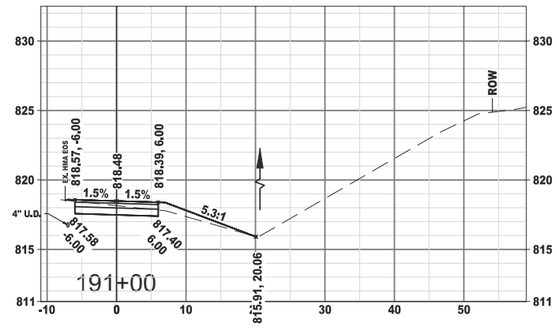




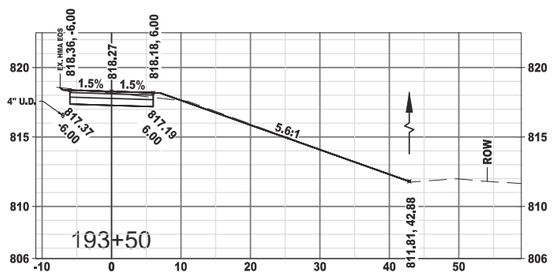


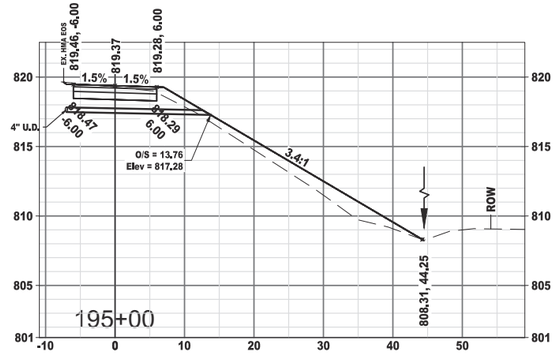




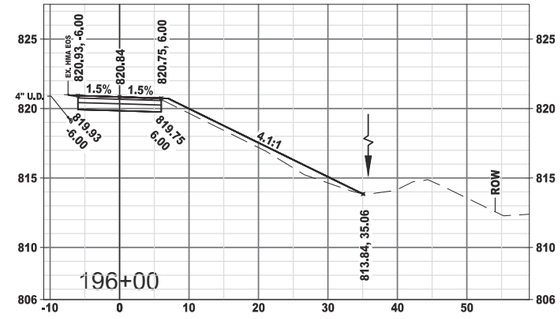


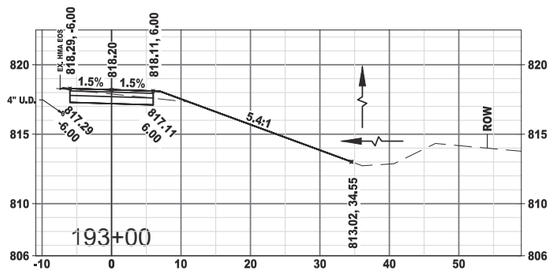
CROSS-SECTIONS (VAUGHNDALE DRIVE TO WILLOW BROOK LANE)



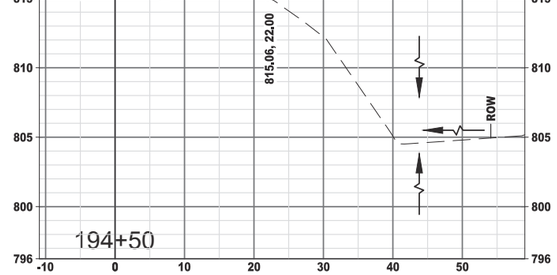


4" UNDERDRAIN OUTLET (EVERY 300')

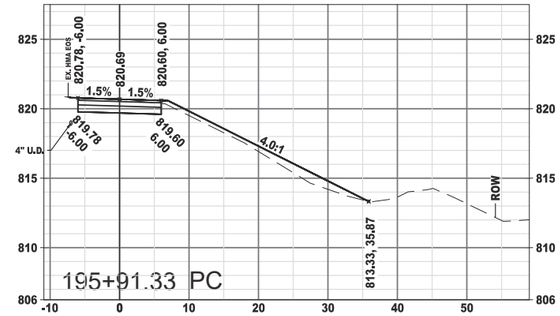


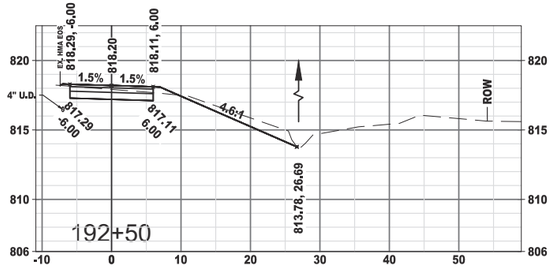


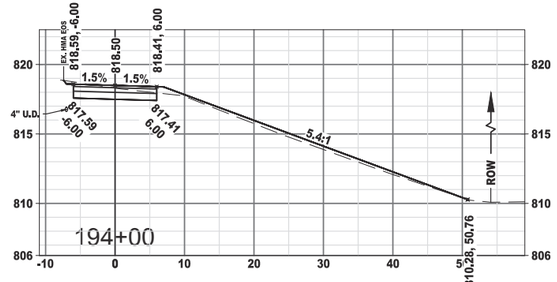
STA 192+80 RT (+/-): EXISTING 30" RCP A/R CULVERT

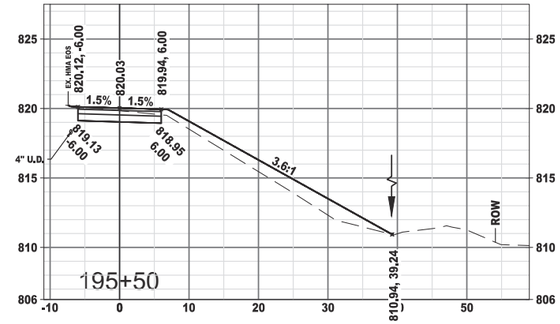


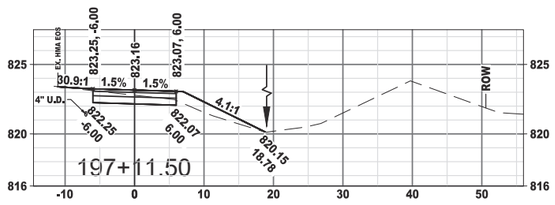
STA 194+45 RT (+/-): EXISTING TWIN 60" RCP A/R CULVERT



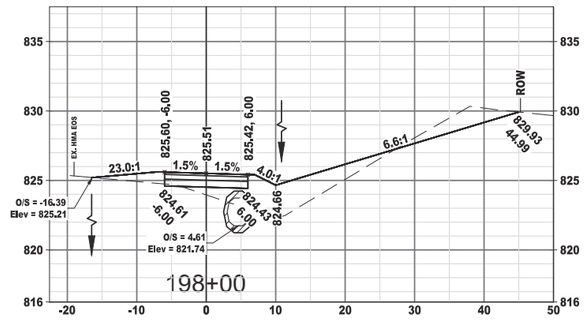


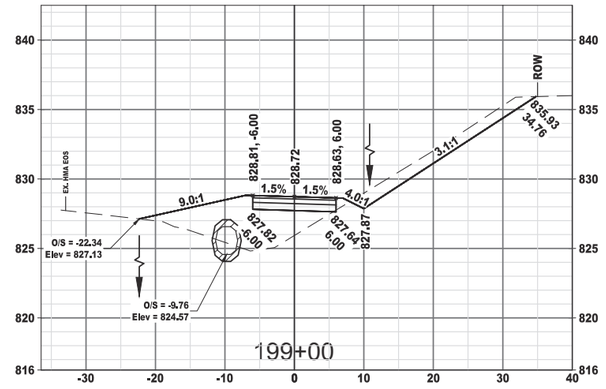


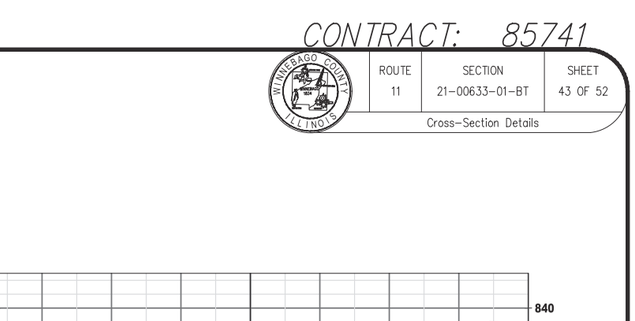


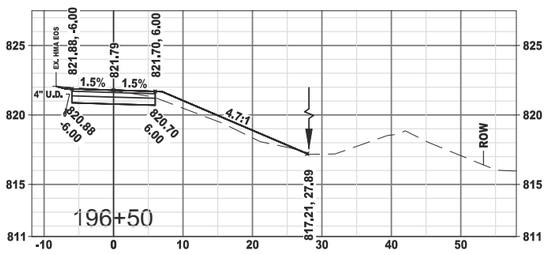


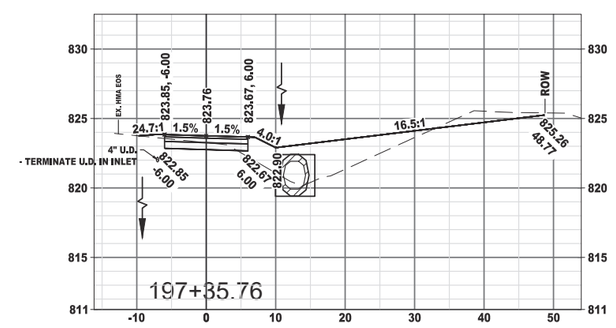
CURVE MIDPOINT



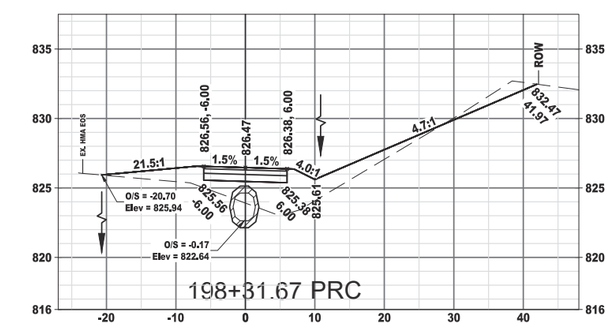


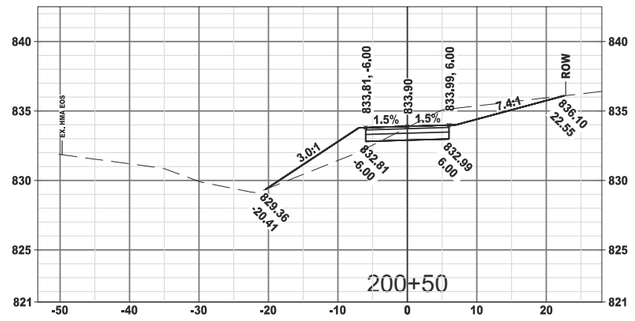


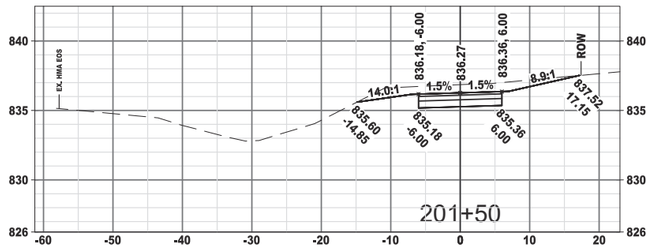


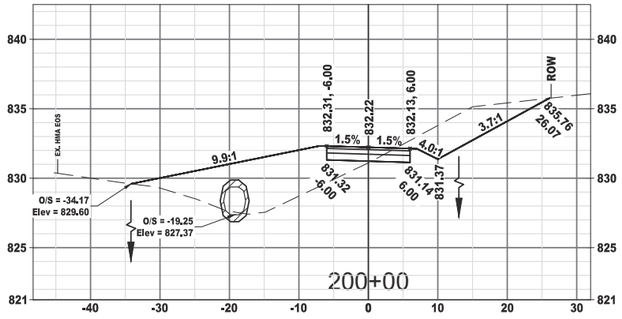


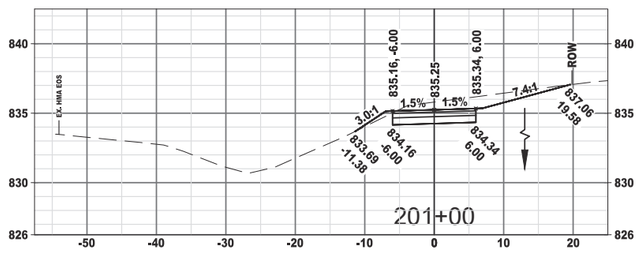
STA 194+35 RT (+/-): EXISTING 30" RCP
A/R CULVERT

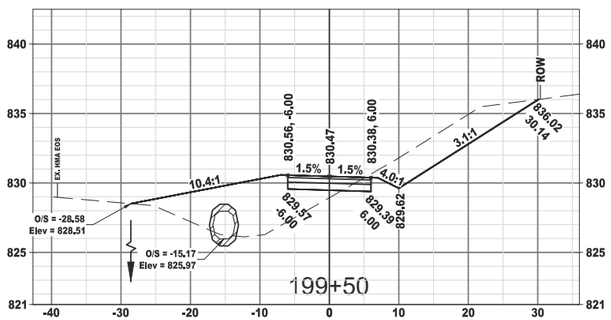


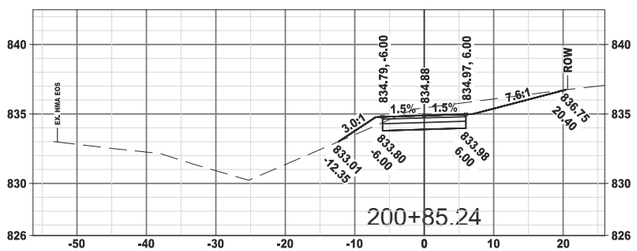

EX. HMA EOS
833.81, -6.00
833.90
833.99, 6.00
ROW
1.5%
1.5%
3.0:1
7.4:1
832.81
-6.00
832.99
6.00
829.36
-20.41
836.10
22.55
200+50

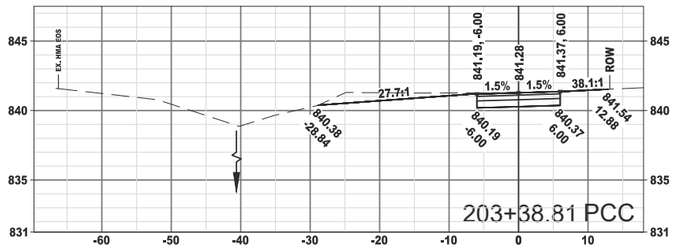

EX. HMA EOS
836.18, -6.00
836.27
836.36, 6.00
ROW
1.5%
1.5%
14.0:1
8.9:1
835.60
-14.95
835.18
-6.00
835.36
6.00
837.52
17.15
201+50

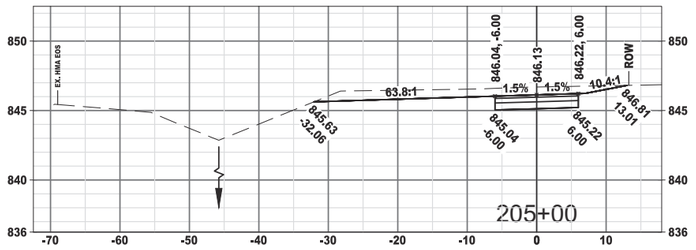

EX. HMA EOS
832.31, -6.00
832.22
832.13, 6.00
ROW
1.5%
1.5%
9.9:1
4.0:1
3.7:1
O/S = -34.17
Elev = 829.60
O/S = -19.25
Elev = 827.37
831.32
-6.00
831.14
6.00
831.37
835.76
26.07
200+00

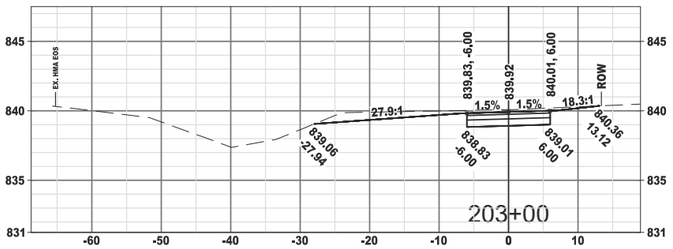

EX. HMA EOS
835.16, -6.00
835.25
835.34, 6.00
ROW
1.5%
1.5%
3.0:1
7.4:1
833.69
-11.38
834.16
-6.00
834.34
6.00
837.06
19.38
201+00

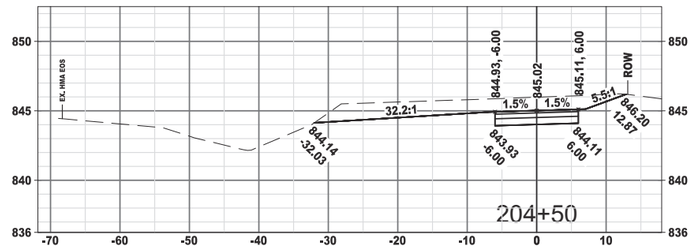

EX. HMA EOS
830.56, -6.00
830.47
830.38, 6.00
ROW
1.5%
1.5%
10.4:1
4.0:1
3.1:1
O/S = -28.58
Elev = 828.51
O/S = -15.17
Elev = 825.97
829.57
-6.00
829.38
6.00
829.62
836.02
30.14
199+50

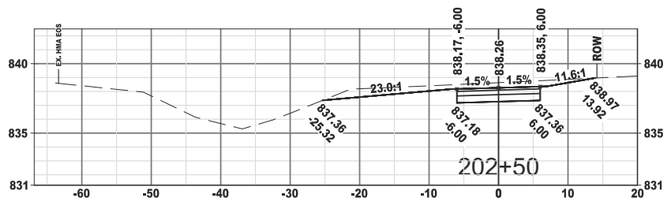

EX. HMA EOS
834.79, -6.00
834.88
834.97, 6.00
ROW
1.5%
1.5%
3.0:1
7.6:1
833.01
-12.35
833.80
-6.00
833.98
6.00
836.75
20.40
200+85.24
CURVE MIDPOINT

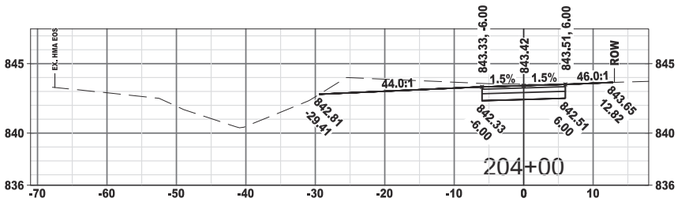

EX. HMA EOS
841.19, -6.00
841.28
841.37, 6.00
ROW
27.7:1
1.5%
1.5%
38.1:1
840.38
-28.84
840.19
-6.00
840.37
6.00
841.54
12.88
203+38.81 PCC

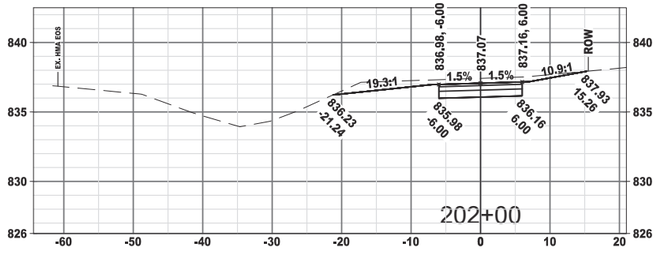

EX. HMA EOS
846.04, -6.00
846.13
846.22, 6.00
ROW
63.8:1
1.5%
1.5%
10.4:1
845.63
-32.06
845.04
-6.00
845.22
6.00
846.91
13.01
205+00

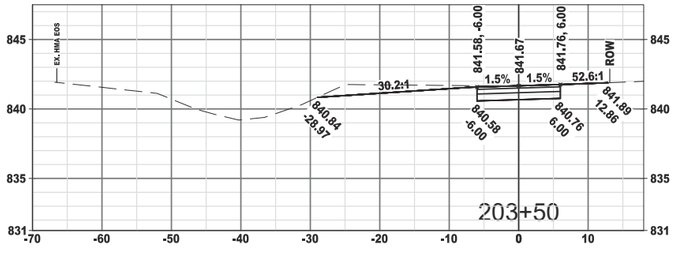

EX. HMA EOS
839.83, -6.00
839.92
840.01, 6.00
ROW
27.9:1
1.5%
1.5%
18.3:1
839.06
-27.94
838.83
-6.00
839.01
6.00
840.36
13.12
203+00

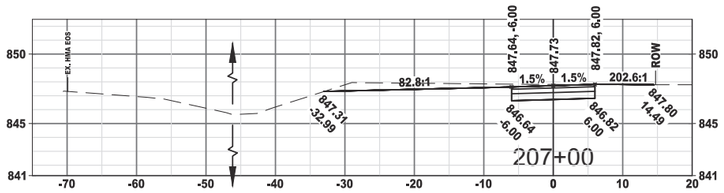

EX. HMA EOS
844.93, -6.00
845.02
845.11, 6.00
ROW
32.2:1
1.5%
1.5%
5.5:1
844.14
-32.03
843.93
-6.00
844.11
6.00
846.20
12.87
204+50


EX. HMA EOS
838.17, -6.00
838.26
838.35, 6.00
ROW
23.0:1
1.5%
1.5%
11.6:1
837.36
-25.32
837.18
-6.00
837.36
6.00
838.97
13.92
202+50

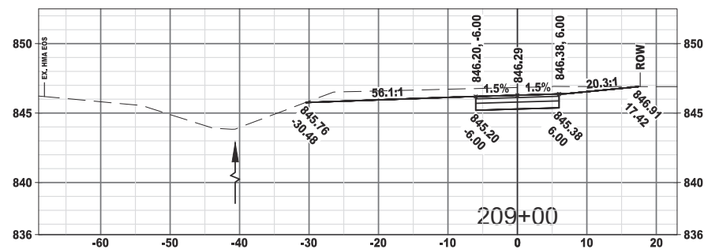

EX. HMA EOS
843.33, -6.00
843.42
843.51, 6.00
ROW
44.0:1
1.5%
1.5%
46.0:1
842.81
-29.41
842.33
-6.00
842.51
6.00
843.65
12.82
204+00

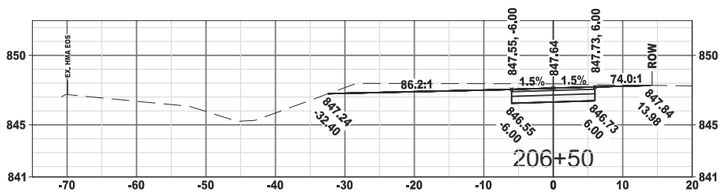

EX. HMA EOS
836.98, -6.00
837.07
837.16, 6.00
ROW
19.3:1
1.5%
1.5%
10.9:1
836.23
-21.24
835.98
-6.00
836.16
6.00
837.93
15.26
202+00

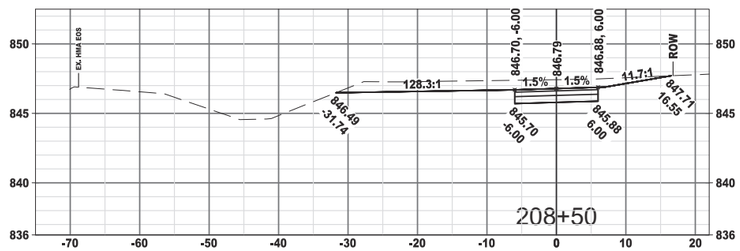

EX. HMA EOS
841.58, -6.00
841.67
841.76, 6.00
ROW
30.2:1
1.5%
1.5%
52.6:1
840.84
-28.97
840.58
-6.00
840.76
6.00
841.89
12.86
203+50

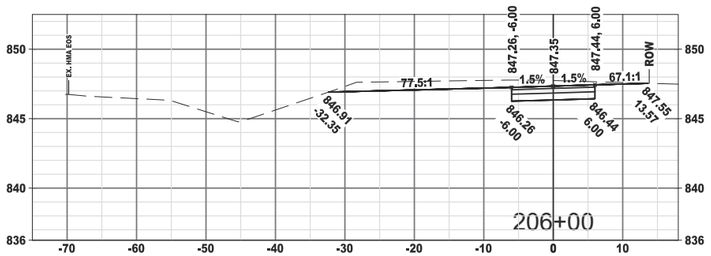


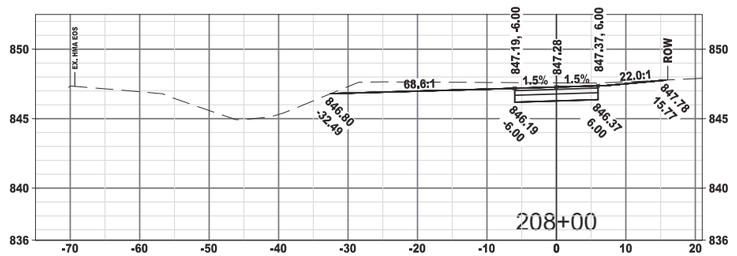
CL HIGH POINT: STA 206+65.91

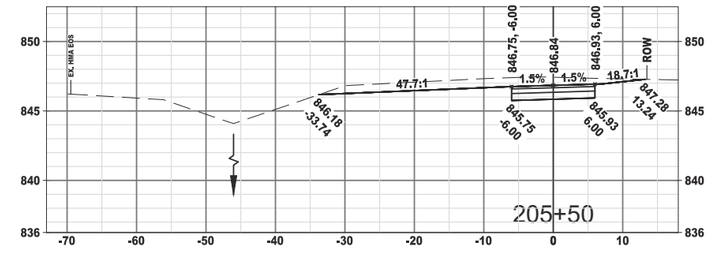


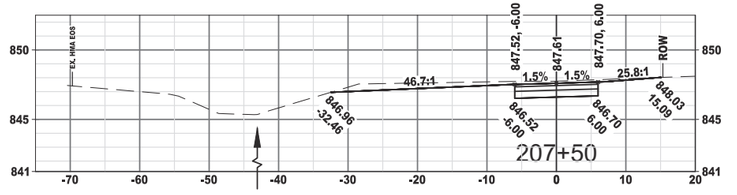


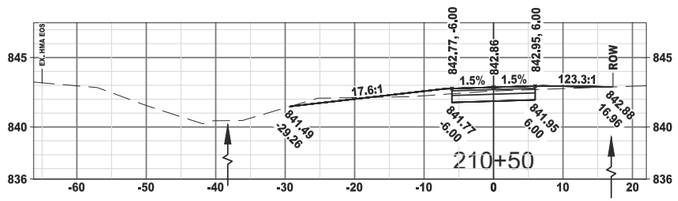


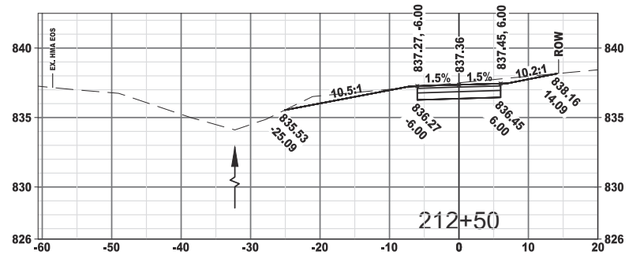


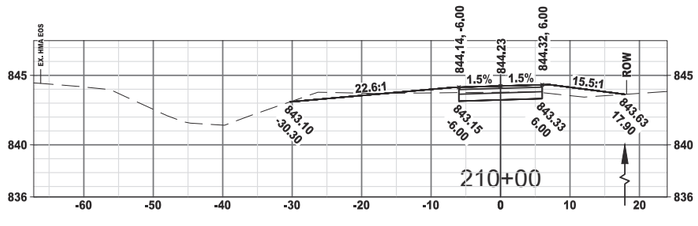


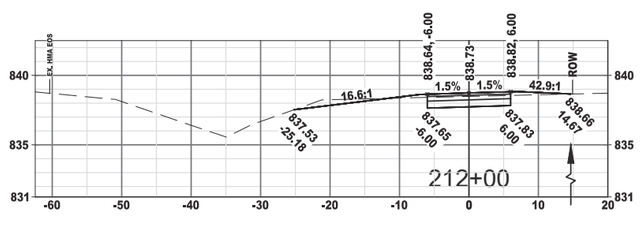


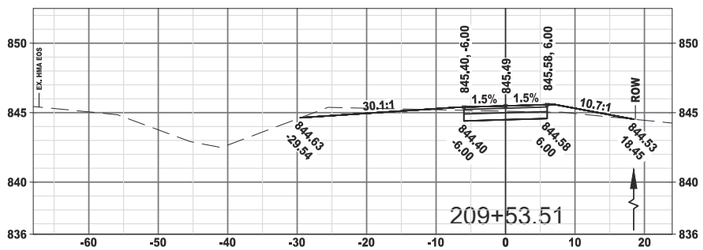




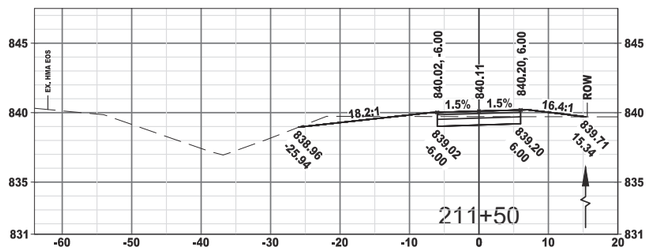


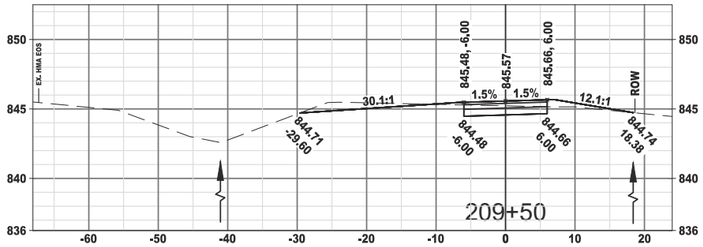


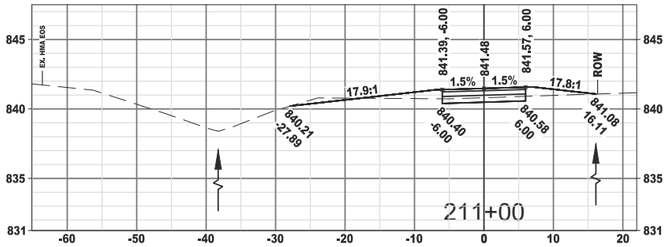


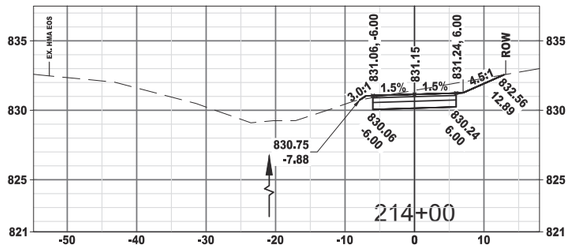


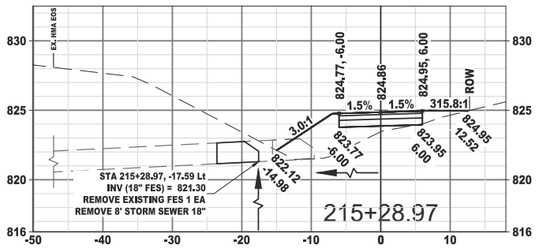
CURVE MIDPOINT

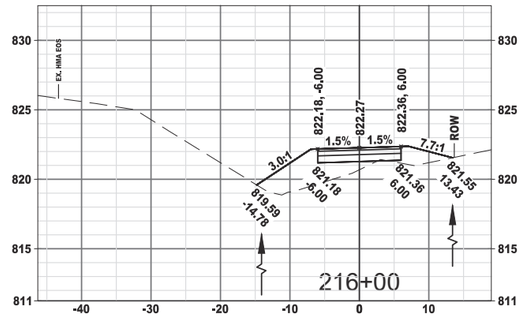




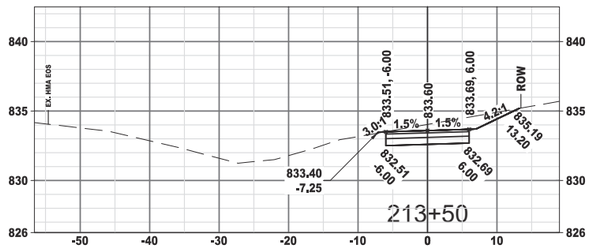


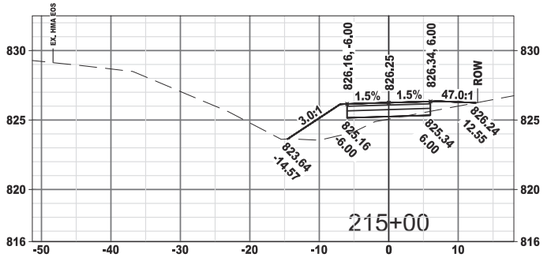


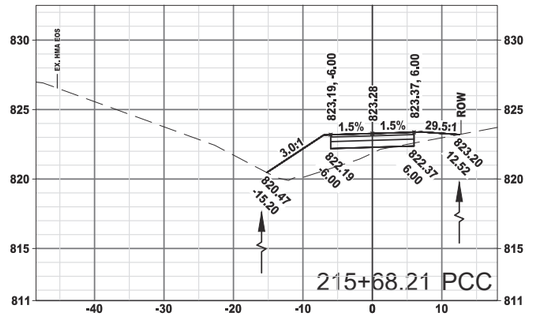


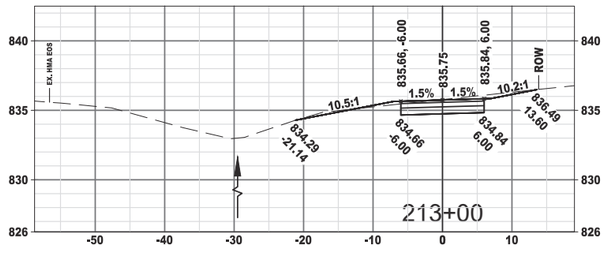


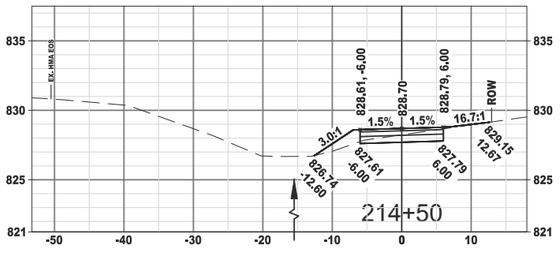
STA 215+29 LT (+/-): EXISTING 18" RCP A/R CULVERT

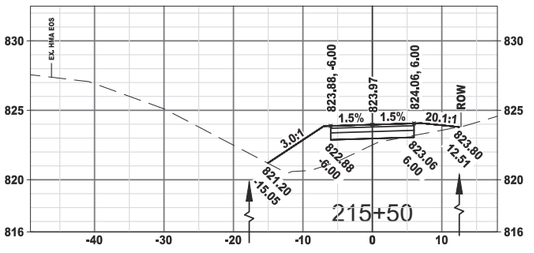


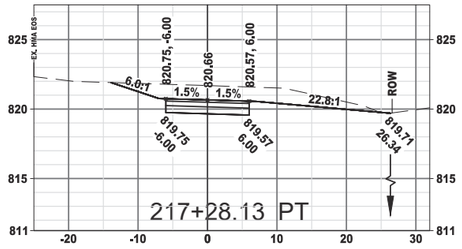




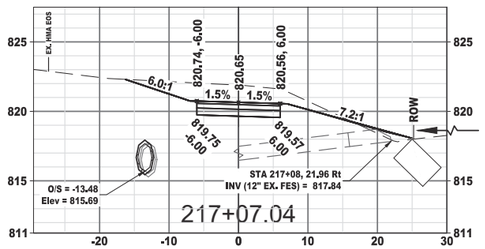






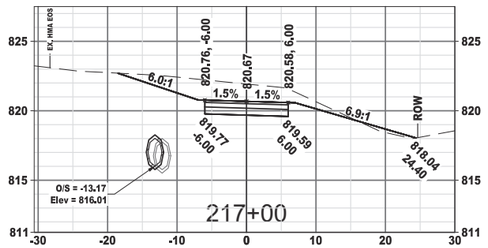


217+28.13 PT

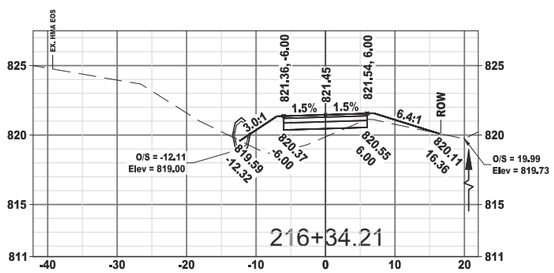


217+07.04

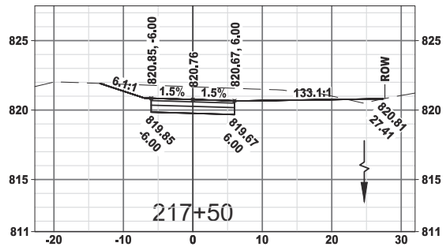
STA 217+08 RT (+/-): EXISTING 12" RCP A/R CULVERT



217+00



216+34.21



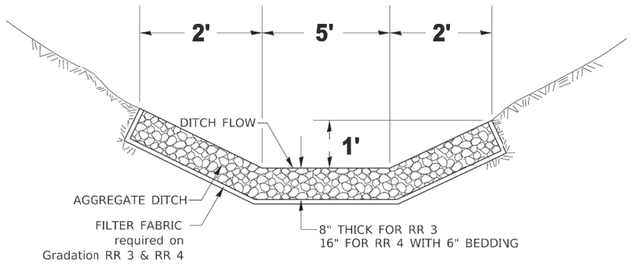
217+50

CONTRACT: 85741

WINNEBAGO COUNTY ILLINOIS	ROUTE	SECTION	SHEET
	11	21-00633-01-BT	50 OF 52

IDOT D2 STD 19.4 (RIPRAP AT END SECTIONS)
IDOT D2 STD 21.4 (AGGREGATE DITCH FOR FLEXIBLE DITCH LINING)

AGGREGATE DITCH FOR FLEXIBLE DITCH LINING



THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 281.
AGGREGATE DITCH WILL BE MEASURED FOR PAYMENT IN PLACE AND THE AREA COMPUTED IN SQUARE YARDS OF ACTUAL SURFACE AREA.
AGGREGATE DITCH WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR STONE RIPRAP CLASS A3 OR STONE RIPRAP CLASS A4 THE FILTER FABRIC SHALL BE ACCORDING TO SECTION 282. FILTER FABRIC WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR FILTER FABRIC.

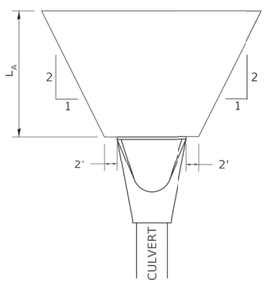
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

FILE NAME: District 2 Standard4
PLOT DATE = 1/11/2022

REVISED - 7-05-12	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -						
REVISED -				CONTRACT NO.		
REVISED -	SCALE: 1.0000 ' / in. SHEET OF SHEETS STA. TO STA.	ILLINOIS	FED. AID PROJECT			

AGGREGATE DITCH FOR FLEXIBLE DITCH LINING 21.4

RIPRAP AT END SECTIONS



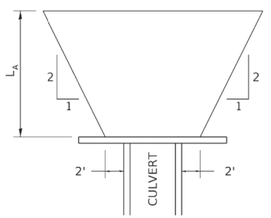
FLARED END SECTION

L_A= 5' (UNLESS OTHERWISE DIRECTED BY THE ENGINEER)

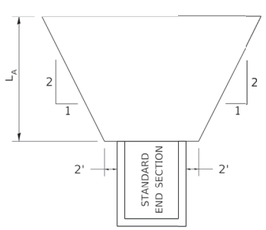
L_A = APRON LENGTH (ft)

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

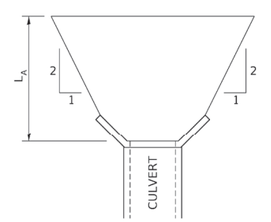
STANDARD END SECTION:
542001 (PIPE), 542011 (ELLIPTICAL)
DISTRICT STANDARD 10.1 (BOX).



CULVERT WITH HEADWALL



STANDARD END SECTION



CULVERT WITH WING WALLS

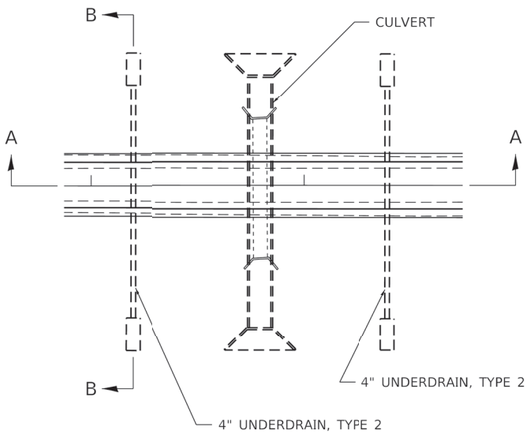
FILE NAME: District 2 Standard
PLOT DATE = 1/11/2022

REVISED - 7-13-16	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 11-12-14						
REVISED - 2-10-14				CONTRACT NO.		
REVISED -	SCALE: 1.0000 ' / in. SHEET OF SHEETS STA. TO STA.	ILLINOIS	FED. AID PROJECT			

RIPRAP AT END SECTIONS 19.4

IDOT D2 STD 19.4 (RIPRAP AT END SECTIONS)
IDOT D2 STD 21.4 (AGGREGATE DITCH FOR FLEXIBLE DITCH LINING)

UNDERDRAIN FOR ACROSS ROAD (AR) CULVERTS



NOTES:

IN SAG CONDITIONS INSTALL PIPE UNDERDRAINS, TYPE 2, 4" ON BOTH SIDES OF CULVERT.

ON HIGHWAY GRADES GREATER THAN 2% INSTALL PIPE UNDERDRAINS, TYPE 2, 4" 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).

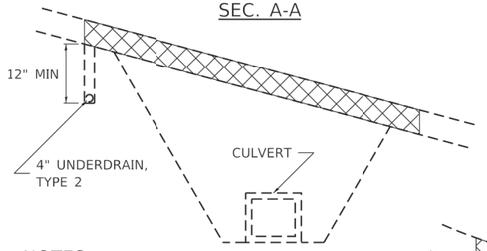
THE UNDERDRAIN SHALL BE A MINIMUM OF 12" BELOW THE EXISTING PAVEMENT.

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 DRAINS.

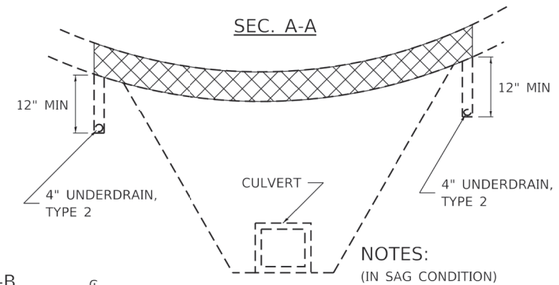
A DELINEATOR SHALL BE PLACED AT EACH CONCRETE HEADWALL. THESE BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR DELINEATORS.

SEC. A-A



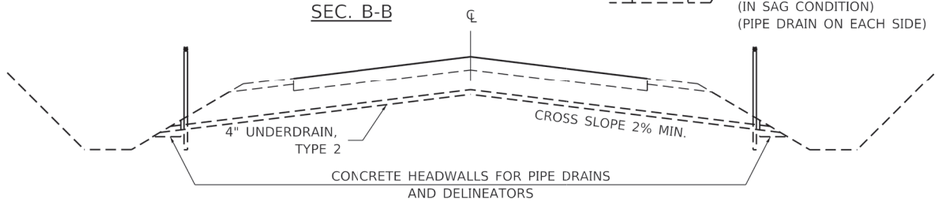
NOTES:
(HIGHWAY GRADE GREATER THAN 2%)

SEC. A-A



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

SEC. B-B

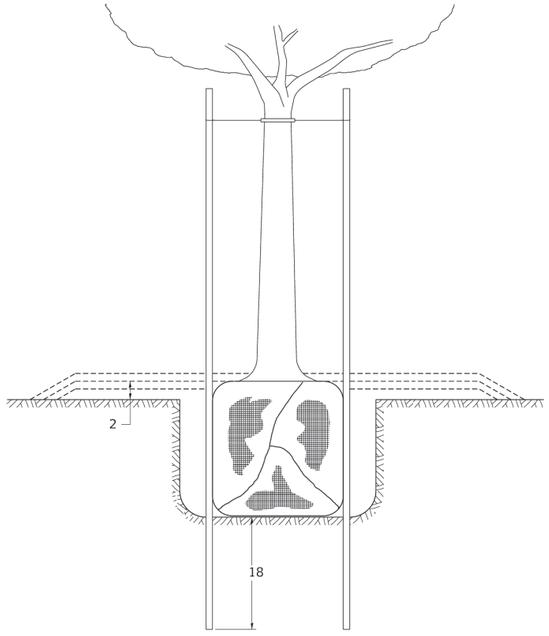


FILE NAME: District 2 standard
PLOT DATE = 5/14/2020

REVISED - 8-03-17	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 7-13-16						
REVISED - 1-05-16				CONTRACT NO.		
REVISED - 6-27-14	SCALE 2.0000 ' / in. SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

UNDERDRAIN FOR ACROSS ROAD (AR) CULVERTS 37.2

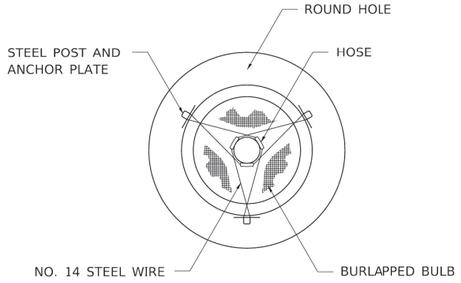
DETAILS OF PLANTING AND BRACING TREES

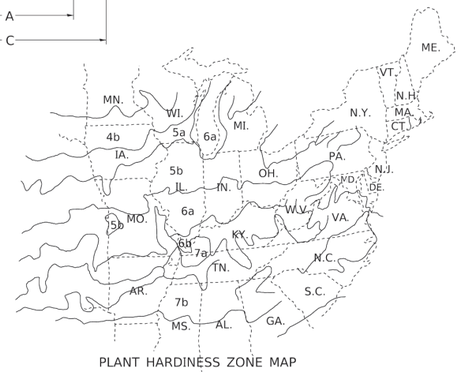


TREES SMALLER THAN 4½ IN DIAMETER

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

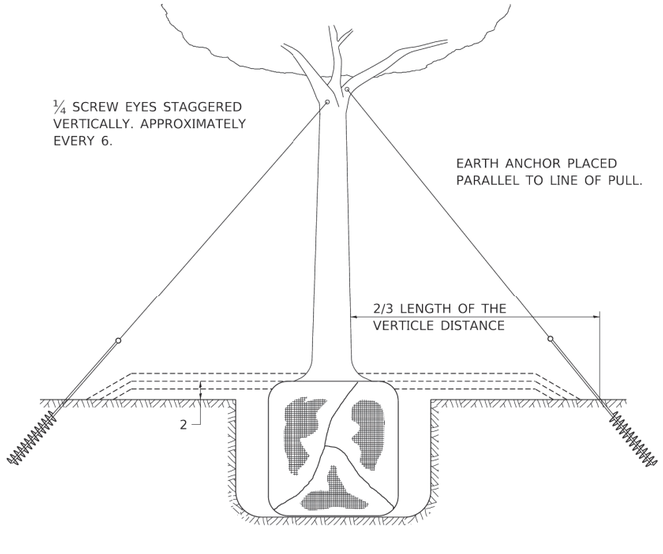
LARGE TREE SIZE	A DIAMETER OF BALL OR ROOT SYS.	B DEPTH OF HOLE EXCAVATION	C WIDTH OF HOLE EXCAVATION	D THICKNESS OF MULCH COVER	E DEPTH OF BALL OR ROOT SYS.	F VOLUME OF MULCH COVER CU. YDS.
0-2	20	11	36	4	13	0.61
2-2½ BB	24	14	48	4	16	0.78
2½-3 BB	28	17	48	4	19	0.78
3-3½ BB	32	17	60	4	19	0.96
3½-4 BB	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



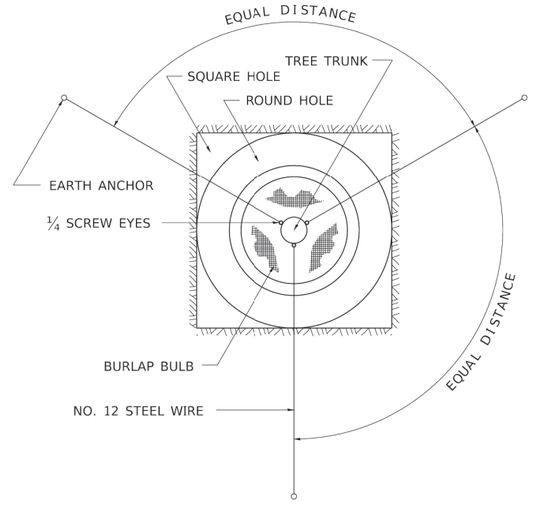


PLANT HARDINESS ZONE MAP

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



TREES OVER 4½ IN DIAMETER



ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE NOTED.

FILE NAME: District 2 Standard	USER NAME = IDOT/District 2	DESIGNED -	REVISED - 10-18-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN -	REVISED -	
	PLOT SCALE = 1.0000 ' / in.	CHECKED -	REVISED -	
	PLOT DATE = 1/11/2022	DATE -	REVISED -	

REGION 2 / DISTRICT 2 STANDARD

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

DETAILS OF PLANTING AND BRACING TREES **92.1**