

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED LOCAL AGENCY IMPROVEMENT FEDERAL-AID PROJECT

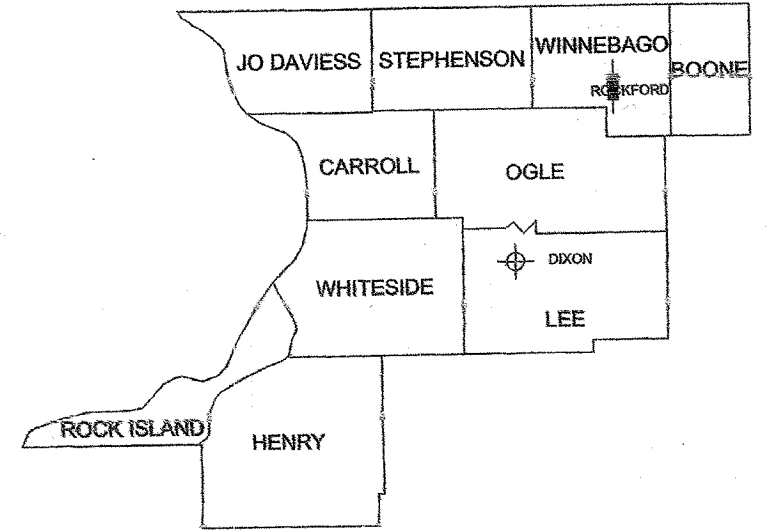


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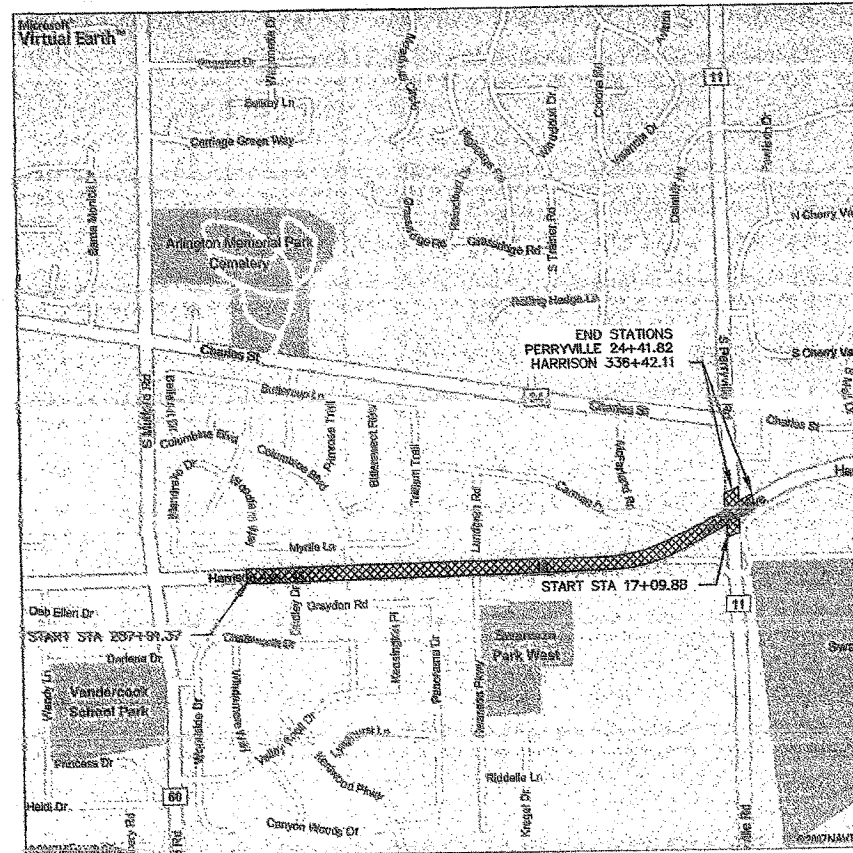
FAP 525 (HARRISON AVE.)
SECTION 04-00355-00-RS
PROJECT NO. RS-0525(114)
JOB NO. C-92-066-07
CONTRACT NO. 85437



+ DISTRICT HEADQUARTER
 PROJECT LOCATION

STANDARDS

- 280001-04 TEMPORARY EROSION CONTROL SYSTEMS
- 353001-04 PCC BASE CSE WITH HMA BINDER & SURFACE CSE
- 486201-01 MAILBOX TURNOUT
- 420001-07 PAVEMENT JOINTS
- 442101-07 CLASS B PATCHES
- 482006-03 HMA SHOULDER ADJACENT TO RIGID PAVEMENT
- 542301-01 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 542401 METAL END SECTION FOR PIPE CULVERTS
- 602401-01 MANHOLE - TYPE A
- 602601-01 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 604001-02 FRAME & LIDS TYPE 1
- 604026-01 FRAME & GRATE TYPE 6
- 606001-03 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB & GUTTER
- 606006-01 OUTLETS FOR CONCRETE CURB & GUTTER TYPE B-6.24
- 606301-03 PC CONCRETE ISLANDS AND MEDIANS
- 635001 DELINEATORS
- 635006-02 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-01 REFLECTOR MARKER AND MOUNTING DETAILS
- 637006-01 CONCRETE BARRIER, DOUBLE FACE
- 701001-01 OFF-RD OPERATIONS 2L, 2W, MORE THAN 15' AWAY
- 701006-02 OFF-RD OPERATIONS 2L, 2W, 4.5M (15') TO PAVEMENT EDGE FOR SPEEDS ≥ 45 MPH
- 701011-01 OFF-RD MOVING OPERATIONS 2L, 2W DAY ONLY FOR SPEEDS ≥ 45 MPH
- 701101 -C OFF-RD OPERATIONS 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE
- 701201-02 LANE CLOSURE, 2L, 2W, DAY ONLY FOR SPEEDS ≥ 45 MPH
- 701306-01 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701311-02 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701320-02 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS ≥ 45 MPH
- 701426-02 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
- 701501-04 URBAN LANE CLOSURE 2L, 2W UNDIVIDED
- 701601-05 URBAN LANE CLOSURE, MULTILANE 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701602-03 URBAN LANE CLOSURE, MULTILANE 2W WITH BI-DIRECTIONAL LEFT TURN LANE
- 701606-05 URBAN LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN
- 701701-05 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 791901 TRAFFIC CONTROL DEVICES
- 720011 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 720016-01 MAST ARM MOUNTED STREET NAME SIGN
- 728001 TELESCOPING STEEL SIGN SUPPORT
- 729001 APPLICATIONS OF TYPE A & B METAL POSTS
- 780001-01 TYPICAL PAVEMENT MARKINGS
- 781801-02 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 814001-01 CONCRETE HANDHOLES
- 857001 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
- 862001 UNINTERRUPTIBLE POWER SUPPLY (UPS)
- 873001-01 TRAFFIC SIGNAL GROUNDING AND BONDING
- 877011-03 STEEL COMBINATION MAST ARM ASSEMBLY & POLE 16' - 65'
- 878001-03 CONCRETE FOUNDATION DETAILS
- 880006 TRAFFIC SIGNAL MOUNTING DETAILS
- B.L.R. 10-5 PCC PAVEMENT SPECIAL (NONREINFORCED)
- B.L.R. 14-9 PORTLAND CEMENT CONCRETE PAVEMENT
- B.L.R. 24-1 MAILBOX TURNOUT FOR LOCAL ROADS



PROJECT LOCATION

SCALES:	
CROSS-SECTIONS FULL SIZE HORIZONTAL: 1" = 10' VERTICAL: 1" = 5' 1/4 SIZE HORIZONTAL: 1" = 20' VERTICAL: 1" = 10'	PLAN & PROFILE FULL SIZE HORIZONTAL: 1" = 20' VERTICAL: 1" = 5' 1/4 SIZE HORIZONTAL: 1" = 40' VERTICAL: 1" = 10'

HARRISON AVE:
NET LENGTH: 4850.7 FT (0.92 MILES)
ADT: 21,500 (2007) TRUCK: 2%
URBAN ARTERIAL
45 MPH DESIGN SPEED

PERRYVILLE ROAD:
NET LENGTH: 731.9 FT (0.14 MILES)
ADT: 21,700 (2007) TRUCK: 2%
URBAN ARTERIAL
45 MPH DESIGN SPEED

CALL J.U.L.I.E.
BEFORE YOU DIG
1-800-892-0123
T.44 N. - R.2 E.
SEC. 34



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
APPROVED	 21 20 08 WINNEBAGO COUNTY ENGINEER
PASSED	 APR 23 20 08 DISTRICT 2 ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	 APR 23 20 08 DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER



GENERAL NOTES

GENERAL NOTES AND CONDITIONS

All earthwork, grading and paving shall be performed in accordance with the "Standard Specifications for Road and Bridge Construction, State of Illinois Department of Transportation, adopted January 1, 2007"; the "Supplemental Specifications and Recurring Special Provisions" (current addition), and all revisions and supplements thereto, and the requirements and specifications of the County of Winnebago.

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.

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.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 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.

Commonwealth Edison 123 Energy Ave. Rockford, IL 61109 Phone - (815) 490-2869	Nicor Gas 300 W. Terra Cotta Crystal Lake, IL 60014 Phone - (815) 455-0271
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Rock River Reclamation District 3333 Kishwaukee St. Rockford, IL 61126-7460 Phone - (815) 387-7660	AT&T/SBC 2404 - 8th Avenue Rockford, IL 61106 Phone - (815) 394-7270
-------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------

Water Division, City of Rockford 425 E. State St. Rockford, IL 61104 Phone - (815) 961-3766	Comcast Communication 811 - 21st Street Rockford, IL 61108 Phone - (815) 962-4400
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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 to EARTH EXCAVATION and no additional compensation will be allowed.

EARTHWORK, GRADING, AND PAVING

A contingency quantity of REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL has been included in the contract quantities for undercutting unsuitable or unstable subgrade. The subgrade shall be processed in accordance with Section 301 of the Standard Specifications before a determination by the Engineer for the necessity of undercut is made. Field determinations in regards to exact location and depths will be made by the Engineer. After excavation of unsuitable material and after the Engineer's approval, GEOTECHNICAL FABRIC FOR GROUND STABILIZATION shall be placed and Porous Granular Embankment shall be used to backfill the excavated area. The excavated unsuitable material shall be disposed outside of the Right-of-Way.

Cut or fill slopes shall have a maximum ratio of 3 horizontal to 1 vertical. These slope constraints apply to temporary stock piles as well as finished slope conditions. See cross sections for special slopes, including driveway slopes. Cut and fill quantities, as shown on the cross sections, are based on finished grade for all cross sections.

(EARTHWORK, GRADING & PAVING CONT.)

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

Existing topsoil and vegetation shall be stripped in embankment areas prior to the placement of fill material. The cost of this work shall be incidental to EARTH EXCAVATION.

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.

Excavation in old gravel or macadam road is to be paid for as EARTH EXCAVATION.

The earth removed in shaping the subgrade of the pavement and not needed to complete the earth shoulders within the project limits shall be disposed of by the Contractor as directed by the Engineer, without additional compensation, it being understood that the cost of performing such work is included in the contract unit price for the particular type of excavation.

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.

All saw cuts, including saw cut pavement (Full Depth), sawing Bituminous Surface and other saw cutting listed or implied on the plans shall be incidental to the accompanying removal items shown, in accordance with the special provisions for this project.

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

Where section or subsection monuments are encountered, the Engineer shall be notified before such monuments are removed. The Contractor shall protect and carefully preserve all property markers, monuments and right-of-way pins until the owner, an authorized surveyor, or agent has been witnessed or otherwise referenced their location.

All private entrances and side road approaches shall be bladed and rolled, as directed by the Engineer, prior to placing Hot Mix Asphalt. This work shall not be paid for separately but shall be considered incidental to INCIDENTAL HMA SURFACING. AGGREGATE BASE COURSE TYPE B (TONS) is provided in the plan quantities and shall be used only as needed and as directed by the Engineer.

Existing, uncontaminated base course material should be used for the purpose of building up entrances for temporary access during construction. However, no additional compensation will be paid beyond the initial EARTH EXCAVATION unit bid price per CY for the existing material used.

The existing signs that interfere with construction shall be removed or relocated as directed by the Engineer. After the construction is completed, the Contractor shall replace the signs as directed by the Engineer. This work will not be paid for separately and shall be considered incidental to the contract and no additional compensation shall be allowed.

It is anticipated that several mailboxes will require relocation to the approach side of the entrances. When this is done, the contractor shall be required to mount the mailbox on a 4"x4" wood post, 40 inches above the shoulder surface and extending to a minimum of 24 inches into the embankment. This work shall be included in the contract unit price for the EARTH EXCAVATION. There are an estimated 20 mailboxes to be relocated.

TEMPORARY EROSION CONTROL

Temporary erosion control measures shall be constructed in accordance with section 280 of the standard specifications and the enclosed Erosion Control Plan.

Temporary erosion control measures includes temporary ditch checks, perimeter erosion barrier, inlet and pipe protection, temporary seeding, and any other temporary erosion control measure needed to limit the amount of soil erosion and sedimentation during construction.

TEMPORARY EROSION CONTROL CONT.)

The Contractor shall place permanent erosion control systems and seeding within a reasonable amount of time; therefore reducing the amount of area being open to the possibility of erosion and reducing the amount of temporary seeding. The Engineer shall determine if temporary erosion control systems shown in the plan can be deleted. The size of proposed ditch check, the proper method of installation, and if any additional temporary erosion control systems shall be added which are not included in the plans. The Contractor shall perform all work as directed by the Engineer and as shown in standard 280001

The erosion control system shall be maintained throughout the course of the project. After each significant rainfall event, the Contractor shall check the condition of the erosion control system and correct any deficiencies. This shall include but is not limited to correcting improper installation and repairing of the erosion control system, removal of trapped sediment, and cleaning of silt filter fence and all roadway and driveway culverts. The cost of maintaining the erosion control system shall be included in the cost of the erosion control items and shall not be paid for separately.

At the completion of the project, all temporary erosion control items shall be removed from the site, becoming the property of the Contractor, and shall be disposed of in accordance with the N.P.D.E.S. permit requirements.

SEEDING

The Contractor shall seed all disturbed areas within the project limits using SEEDING, CLASS 1A. SEEDING SHALL BE PLACED ON ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION OPERATIONS. NUTRIENTS, MULCH, AND ASPHALT, IF REQUIRED, SHALL BE APPLIED TO ALL SEEDING AREAS. THE SEEDING SHALL BE DONE ACCORDING TO SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS, AND THE SPECIAL PROVISIONS.

The following items have been estimated for this contract:

Nitrogen Fertilizer Nutrients	90 LB / ACRE
Phosphorus Fertilizer Nutrients	90 LB / ACRE
Potassium Fertilizer Nutrients	90 LB / ACRE
Seeding, Class 1A	2.48 ACRE

STORM SEWER

All frames and grates of drainage structures to be removed shall be carefully salvaged and shall remain the property of Winnebago County Highway Department.

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

The cost of removing existing Storm Sewer during the installation of new storm sewers shall be included in the contract unit prices for the STORM SEWER being installed.

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

New manhole, valve vault, and inlet lids on this project shall have the word "STORM", or "WATER", or "SANITARY" on the lid. It will be the Contractor's responsibility to determine the appropriate type of lid. No additional compensation will be allowed for this work.

CONCRETE ISLAND

The Contractor shall install a 18" diameter formed opening in the Concrete Median Surface of the Island as directed by the Engineer. Also, a 4" diameter formed opening shall be installed in each corner of the Island 1 foot behind the back of curb. All existing pavement surfaces of other existing obstructions beneath these openings shall be removed by the Contractor.

HOT-MIX ASPHALT

The following Mixture requirements are applicable for this project:

MIXTURE USE(S):	SURFACE	BINDER
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0 @ N70	4.0 @ N70
MIXTURE COMPOSITION (GRADATION MIXTURE):	IL 9.5 or 12.5	IL 19.0
FRICITION AGGREGATE:	F	N/A
20 YEAR ESAL:	0.7	0.7
MIX UNIT WEIGHT	112 lbs/sy/in	

PCC BASE COURSE

The Contractor shall place contraction joint in prolongation with joints in the existing pavement. The joint shall be a sawed contraction joint with dowel bar assembly as shown on the Highway Standard 420001. The cost for this work shall be included in the contract unit price per SQUARE YARD for the PCC BASE COURSE.

TRAFFIC CONTROL COMPLETE

Stripping removal (permanent and temporary) shall be incidental to traffic control complete. This work will not be paid for separately and shall be considered incidental to the contract and no additional compensation shall be allowed.

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		TREE
		UTILITY POLE
		ELECTRIC LINE
		ELECTRIC PED/TRANS
		GAS LINE
		GAS VALVE
		TELEPHONE LINE
		TELEPHONE PEDESTAL
		TELEPHONE VAULT
		WATER LINE
		WATER VALVE
		FIRE HYDRANT
		SANITARY SEWER
		SANITARY MANHOLE
		CONCRETE END SECTION
		METAL END SECTION
		RIGHT-OF-WAY
		DITCH FLOW



SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE: 1000 (OVERLAY) CONSTRUCTION TYPE CODE: J000 (RECONSTRUCTION) CONSTRUCTION TYPE CODE: Y031-1F (SIGNAL WORK) SUMMARY TOTAL FOR ALL CODES

CONSTRUCTION TYPE CODE: I000 (OVERLAY) CONSTRUCTION TYPE CODE: J000 (RECONSTRUCTION) CONSTRUCTION TYPE CODE: Y031-1F (SIGNAL WORK) SUMMARY TOTAL FOR ALL CODES

Table with columns: Item No, Item, Unit, QTY, QTY, QTY, QTY. Lists various construction items like tree removal, paving, and manholes.

Table with columns: Item No, Item, Unit, QTY, QTY, QTY, QTY. Lists various construction items like island paving, concrete barriers, and traffic signals.

* SPECIALTY ITEMS



Table: TREE REMOVAL, 6-15" DIA. (UNIT). Items include Harrison 291+69, 58.5' RT (10.00), 292+14, 58.6' RT (10.00), 292+30, 60.4' RT (10.00), 292+45, 62.5' RT (10.00), 293+11, 60.5' RT (10.00). TOTAL: 50.00

Table: EARTH EXCAVATION (CU. YD.). Items include Harrison Avenue (5,296.00), Perryville Road (1,628.00). TOTAL: 6,924.00

Table: REMOVE & DISPOSE UNS MATL (CU. YD.). Items include Harrison Avenue (1,424.00), Perryville Road (711.00). TOTAL: 2,135.00

Table: TRENCH BACKFILL (CU. YD.). Items include Harrison 292+79, 55.0' RT (10.00), 314+00, 0' RT (2.00), 330+40, RT & LT (8.00), 332+45, RT & LT (10.00). PERRYVILLE 20+56, 55' LT (7.00), 22+06, 47.5' LT (6.00). TOTAL: 43.00

Table: GEOTECH FAB FIGR STAB (SQ. YD.). Items include Harrison Avenue (4,239.00), Perryville Road (2,167.00). TOTAL: 6,406.00

Table: TOPSOIL FURNISH AND PLACE 4" (SQ. YD.). Items include Harrison Avenue (8,068.00), Perryville Road (4,028.00). TOTAL: 12,086.00

Table: SEEDING CLASS 1A (Acre). Items include Harrison Avenue (2.00), Perryville Road (1.00). TOTAL: 3.00

Table: FERTILIZER NUTRIENTS (LBS). Items include Harrison Avenue Nitrogen (74.00), Phosphorus (74.00), Potassium (74.00). Perryville Road Nitrogen (150.00), Phosphorus (150.00), Potassium (150.00). TOTAL EACH: 224.00

Table: MULCH METHOD 3 (Acre). Items include Harrison Avenue (2.00), Perryville Road (1.00). TOTAL: 3.00

Table: EROSION CONTROL BLANKET (SQ. YD.). Items include 320+00-323+90, RT (1,185.00), 320+50-321+60, LT (100.00), 321+75-322+30, LT (50.00), 322+80-328+25, LT (2,505.00), 324+10-330+00, RT (1,840.00), 328+75-330+00, LT (390.00), 330+00-331+30, LT (510.00), 330+00, RT-16+50, L (1,550.00), 331+45-333+50, LT (705.00), 337+00, LT-24+00, F (1,475.00). TOTAL: 10,310.00

Table: TEMP DITCH CHECKS (EA.). Items include 325+00-328+00, RT (4.00), 328+25, LT (1.00), 328+75, LT (1.00), 330+00, RT (1.00), 330+40, LT (1.00), 331+00, RT-16+50, L (5.00), 332+50-333+00, LT (2.00). TOTAL: 15.00

Table: PERIMETER EROSION BARRIER (FT). Items include 287+75-292+50, RT (500.00), 320+00-323+90, RT (390.00), 320+50-321+60, LT (110.00), 321+75-322+30, LT (55.00), 322+80-328+25, LT (580.00), 324+10-330+00, RT (590.00), 328+75-330+00, LT (130.00), 330+00-331+30, LT (130.00), 330+00-16+50, LT (420.00), 331+45-333+50, LT (205.00), 337+00-24+00, RT (370.00). TOTAL: 3,480.00

Table: INLET AND PIPE PROTECTION (EACH). Items include 289+00, RT Harrison (1.00), 292+38, RT Harrison (1.00), 314+00, MED Harrison (1.00), 323+00, MED Harrison (1.00), 326+00, MED Harrison (1.00), 334+00, ISLN Harrison (1.00), 20+60, MED Perryville (1.00), 22+00, MED Perryville (1.00), 24+00, MED Perryville (1.00). TOTAL: 9.00

Table: SUB-BASE GRANULAR MATERIAL, T-B, 4" (SQ. YD.). Items include 287+68 TO 292+67, RT (209), 313+13 TO 318+31 (709), 320+52 TO 334+16, RT & LT (14082). TOTAL: 15,000.00

Table: AGGREGATE BASE COURSE, TYPE B, 4" (SQ. YD.). Items include Driveways, 320+52-333+00, RT & (276.00), Shoulders, 320+52-333+00, RT & (3,239.00). TOTAL: 3,515.00

Table: AGGREGATE BASE COURSE, TYPE B, 8" (SQ. YD.). Items include 287+91 TO 292+64, RT (581.00). TOTAL: 581.00

Table: BIT MATERIALS (PRIME COAT) (GAL). Items include 287+91 TO 320+52, RT & LT (2,008.00). TOTAL: 2,008.00

Table: AGGREGATE (PRIME COAT) (TON). Items include 320+52 TO 334+16, RT & LT (9.00). TOTAL: 9.00

Table: HMA SURFACE COURSE, MIX "C", N30 (TON). Items include 287+91 TO 292+64, RT (60.00). TOTAL: 60.00

Table: HMA SURFACE COURSE, MIX "D", N70 (TON). Items include 287+91 TO 320+52, RT & LT (3,335.00). TOTAL: 3,335.00

Table: INCIDENTAL HOT-MIX ASPHALT SURFACING, 3" (TON). Items include 288+27, RT (8.10), 288+48, RT (8.20), 289+69, RT (8.20), 290+80, RT (8.30), 317+75, LT (22.80), 320+45, LT (6.00), 321+68, LT (6.00), 322+45, LT (18.70), 323+93, RT (9.30), 331+42, LT (6.40). TOTAL: 102.00

Table: PCC PAVEMENT, JOINTED 10" (SQ. YD.). Items include Harrison Avenue (12,067.00), Perryville Road (1,678.00). TOTAL: 13,745.00

Table: HMA SURFACE REMOVAL- COLD MILLING (SQ. YD.). Items include 287+91 TO 320+52, RT & LT (27,098.00). TOTAL: 27,098.00

Table: PAVEMENT REMOVAL (SQ. YD.). Items include 287+68 TO 292+67, RT (579.00), 320+52 TO 334+16, RT & LT (11,940.00), 335+07 TO 336+42, RT & LT (452.00). TOTAL: 12,971.00

Table: DRIVEWAY PAVEMENT REMOVAL (SQ. YD.). Items include 288+27, RT (47.70), 288+48, RT (48.70), 289+69, RT (48.20), 290+80, RT (48.40), 317+75, LT (134.80), 320+45, LT (35.70), 321+68, LT (35.60), 322+45, LT (111.20), 323+93, RT (55.30), 331+42, LT (38.40). TOTAL: 604.00

Table: COMBINATION CURB & GUTTER REMOVAL (FT). Items include 20+25 TO 24+41, RT & LT (1,169.00). TOTAL: 1,169.00

Table: COMB C&G REMOVE & REPLACEMENT (FT). Items include 287+91 TO 320+52, RT & LT (3,000.00). TOTAL: 3,000.00

Table: GUTTER OUTLET REMOVAL (EACH). Items include 287+67, RT (1.00). TOTAL: 1.00

Table: ISLAND REMOVAL (SQ FT). Items include 333+71, RT (261.00), 334+38, LT (224.00), 334+71, RT (504.00), 335+33, LT (267.00). TOTAL: 1,256.00

Table: MEDIAN REMOVAL SPECIAL (SQ FT). Items include 313+13 TO 318+31, RT & I (7,817.00), 320+52 TO 328+79, RT & I (11,037.00), 329+37 TO 333+83, RT & I (4,282.00), 334+89, LT (167.00). TOTAL: 23,303.00

Table: MEDIAN SURFACE REM & REP (SQ FT). Items include 287+91 TO 320+52, RT & I (4,000.00). TOTAL: 4,000.00

Table: AGGREGATE SHOULDERS, 6" TYPE B (SQ. YD.). Items include 328+68, LT (44.00), 328+91, LT (44.00). TOTAL: 88.00

Table: AGG SHOULDERS, (SPECIAL) 6" TYPE B (SQ. YD.). Items include 287+91 TO 292+64, RT (105.00). TOTAL: 105.00

Table: HMA SHOULDERS, 3" (SQ. YD.). Items include 287+91 TO 320+52, RT & I (1,075.00). TOTAL: 1,075.00

Table: HMA SHOULDERS, 8" (SQ. YD.). Items include 320+52 TO 334+16, RT & I (2,932.00). TOTAL: 2,932.00

Table: PIPE CULVERT REMOVAL (FEET). Items include 288+27, RT (22.00), 288+48, RT (23.00), 289+69, RT (20.00), 290+80, RT (20.00), 317+75, LT (35.00), 320+45, LT (20.00), 321+68, LT (20.00), 322+45, LT (35.00), 323+93, RT (20.00), 331+42, LT (20.00). TOTAL: 235.00

Table: PRC FLARED END SECTION 12" (EACH). Items include 330+40.9, 67' RT (1.00). TOTAL: 1.00

Table: PRC FLARED END SECTION 18" (EACH). Items include 293+04, 55' RT (1.00). TOTAL: 1.00

Table: PRC FLARED END SECTION 24" (EACH). Items include 328+61, 65' LT (1.00). TOTAL: 1.00

Table: PRC FLARED END SECTION 36" (EACH). Items include 328+57, 58' LT (1.00). TOTAL: 1.00

Table: STORM SEWER CL A, TY 1, 12" (FOOT). Items include 289+00, 50' RT (8.00), 292+38, 50' RT (8.00), 330+40, RT & LT (32.00). TOTAL: 48.00

Table: STORM SEWER CL A, TY 1, 18" (FOOT). Items include 288+08 TO 293+04, 55' RT (487.00). TOTAL: 487.00

Table: STORM SEWER CL A, TY 1, 24" (EACH). Items include 328+61, 65' LT (6.00). TOTAL: 6.00

Table: STORM SEWER CL A, TY 1, 36" (EACH). Items include 328+57, 58' LT (6.00). TOTAL: 6.00

Table: INLETS TYPE A, T-3, FRAME & GRATE (EACH). Items include 328+57, 9.5' LT (1.00), 330+40, 9.5' LT (1.00), 332+45, 9.5' LT (1.00). TOTAL: 3.00

Table: INLETS TYPE A, T-4, FRAME & GRATE (EACH). Items include 20+56, 55' LT (1.00), 22+06, 47.5' LT (1.00). TOTAL: 2.00

Table: MANHOLES TO BE ADJUSTED (EACH). Items include 288+09, 50' RT (1.00), 20+86, 96' LT (1.00), 22+05, 44' LT (1.00). TOTAL: 3.00

Table: MANHOLES TO BE RECONSTRUCTED (EACH). Items include 288+09, 56' RT (1.00), 332+45, 51' LT (1.00). TOTAL: 2.00

Table: INLETS TO BE ADJUSTED WITH NEW T-4 F&G (EACH). Items include 19+06, 33' LT (1.00), 20+56, 48' LT (1.00), 22+06, 33' LT (1.00), 24+06, 33' LT (1.00). TOTAL: 4.00

Table: INLETS TO BE RECON W \ SALVAGED F&G (EACH). Items include 325+85, 6' LT (1.00). TOTAL: 1.00

Table: REMOVING INLETS (EACH). Items include 328+55, 4' LT (1.00), 330+40, 5.3' LT (1.00), 20+56, 48' LT (1.00), 22+06, 33' LT (1.00). TOTAL: 4.00

Table: REMOVING MANHOLES TO MAINTAIN FLOW (EACH). Items include 20+56, 48' LT (1.00). TOTAL: 1.00

Table: COMB CC & G, TYPE B-6.06 (FEET). Items include 325+90 TO 326+40, LT (298.00), 333+58, RT (32.00), 334+30, LT (23.00), 334+65, RT (33.00), 335+51, LT (28.00). TOTAL: 414.00

Table: COMB CC & G, TYPE B-6.24 (FEET). Items include 287+68 TO 292+67, RT (519.00), 313+13 TO 318+31, RT & (215.00), 320+52 TO 324+90, RT & (874.00), 328+79 TO 329+15, RT & (101.00), 329+41 TO 330+19, RT & (160.00), 333+58, RT (78.00), 334+30, LT (36.00), 334+65, RT (45.00), 335+51, LT (65.00), 336+95, LT TO 23+50, RT (331.00). TOTAL: 2,424.00

Table: CONCRETE MEDIAN SURFACE 4" (SQ. FT.). Items include 315+09 TO 315+34, LT (73.00), 320+52 TO 326+40, RT & (5,089.00), 329+41 TO 330+19, RT & (451.00), 329+41 TO 330+19, RT & (442.00). TOTAL: 6,055.00

Table: CONC MEDIAN, T-SB-6.06 SPEC (SQ. FT.). Items include 315+34 TO 317+43, LT (1,216.00), 326+40 TO 328+60, LT (1,237.00), 330+19 TO 333+64 LT (2,155.00), 334+89, 57' LT (111.00). TOTAL: 4,719.00

Table: ISLAND PAVEMENT (SPECIAL) (SQ. YD.). Items include 333+71, RT (50.00), 334+38, LT (14.00), 334+71, RT (22.00), 335+33, LT (33.00). TOTAL: 119.00

Table: CONCRETE BARRIER, D-FACE SPEC (FEET). Items include 333+14, LT TO 24+41, LT (524.00). TOTAL: 524.00

Table: SHORT TERM PAVEMENT MARKING (FEET). Items include Harrison Avenue (16,000.00). TOTAL: 16,000.00

Table: MANHOLE, TYPE A, 3' DIA, FRAME & LID (EACH). Items include 289+99, 56' RT (1.00), 292+37, 55' RT (1.00). TOTAL: 2.00

Table: GUARDRAIL, SPECIAL (FEET). Items include 297+00 TO 298+00, LT (100.00). TOTAL: 100.00

Table: THERMOPLASTIC PAVEMENT MARKING L & S (SQ. FT.). Items include Harrison Avenue (400.00), Perryville Road (-). TOTAL: 400.00

Table: THERMOPLASTIC PAVEMENT MARKING LINE 4" WHITE (FEET). Items include Harrison Avenue (7,853.00), Perryville Road (-). 4" YELLOW Harrison Avenue (6,206.00), Perryville Road (-). TOTAL: 14,059.00

Table: THERMOPLASTIC PAVEMENT MARKING LINES" WHITE (FEET). Items include Harrison Avenue (1,110.00), Perryville Road (-). TOTAL: 1,110.00

Table: EPOXY PAVEMENT MARKING L & S (FEET). Items include Harrison Avenue (-), Perryville Road (368.00). TOTAL: 368.00

Table: EPOXY PAVEMENT MARKING LINE 4" WHITE (FEET). Items include Harrison Avenue (2,413.00), Perryville Road (1,500.00). 4" YELLOW Harrison Avenue (1,759.00), Perryville Road (760.00). TOTAL: 6,432.00

Table: EPOXY PAVEMENT MARKING LINE 6" WHITE (FEET). Items include Harrison Avenue (227.00), Perryville Road (951.00). TOTAL: 1,178.00

Table: EPOXY PAVEMENT MARKING LINE 8" (FEET). Items include Harrison Avenue (679.00), Perryville Road (775.00). TOTAL: 1,454.00

Table: EPOXY PAVEMENT MARKING LINE 12" (FEET). Items include Harrison Avenue (206.00), Perryville Road (464.00). TOTAL: 670.00

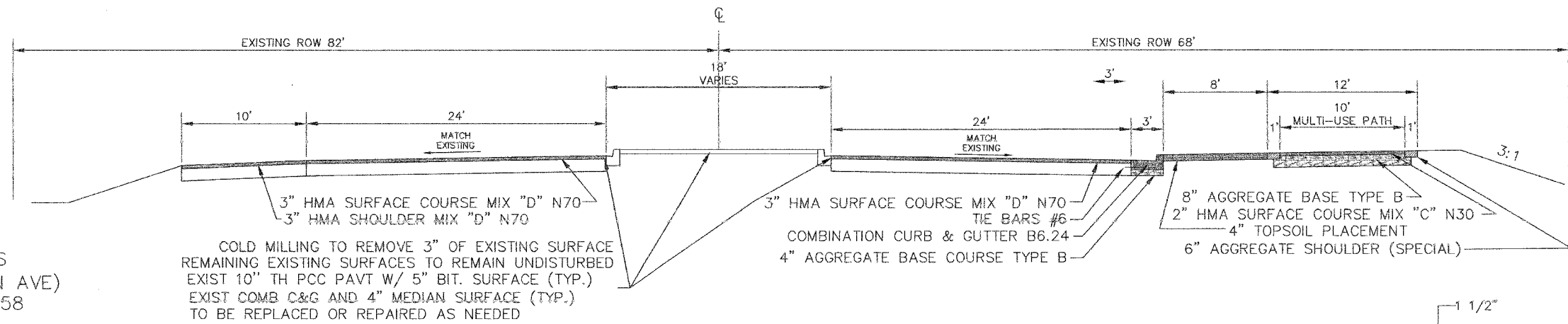
Table: EPOXY PAVEMENT MARKING LINE 24" WHITE (FEET). Items include Harrison Avenue (36.00), Perryville Road (191.00). TOTAL: 227.00

Table: RAISED REFLECTIVE PAVEMENT MARKER (EACH). Items include Harrison Avenue (140.00), Perryville Road (16.00). TOTAL: 156.00

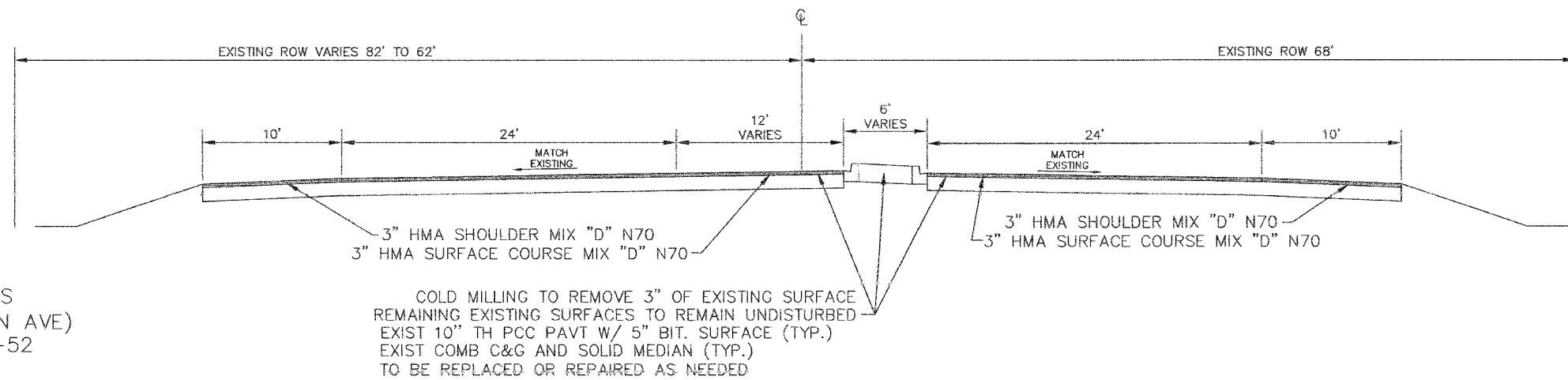
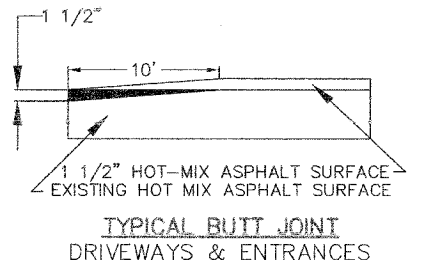
Table: P CUL 1 CS/A CP 16" (FOOT). Items include 320+45, LT (20.00), 321+68, LT (20.00), 322+45, LT (40.00), 323+93, RT (30.00), 331+42, LT (20.00). TOTAL: 130.00

Table: STEEL END SECTIONS 15" (EACH). Items include 320+45, LT (2.00), 321+68, LT (2.00), 322+45, LT (2.00), 323+93, RT (2.00), 331+42, LT (2.00). TOTAL: 10.00

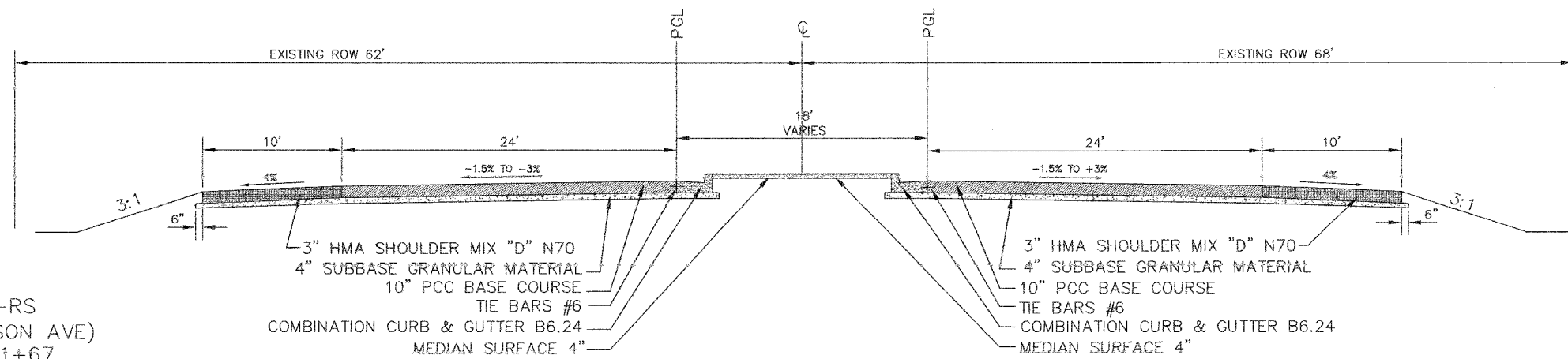
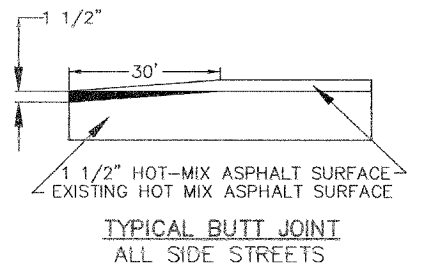
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SECTION 04-00355-00-RS
COUNTY HIGHWAY 43 (HARRISON AVE)
STA. 287+91 TO STA. 292+58



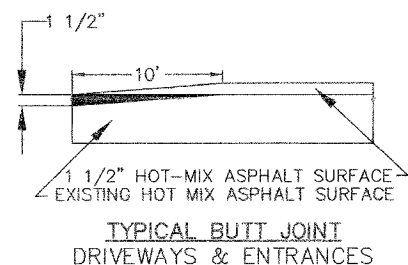
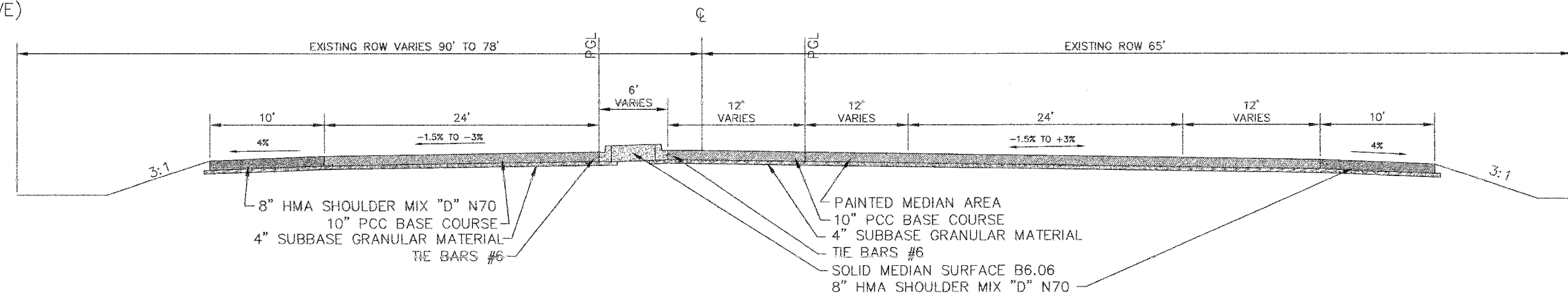
SECTION 04-00355-00-RS
COUNTY HIGHWAY 43 (HARRISON AVE)
STA. 292+58 TO STA. 320+52



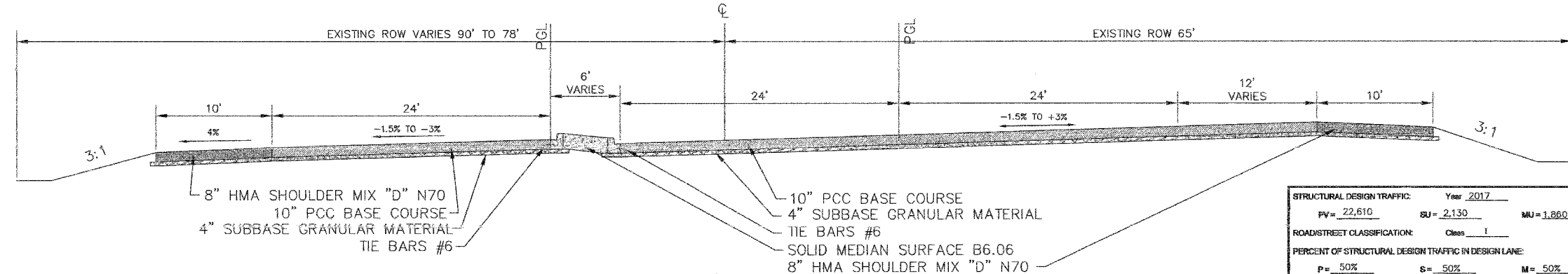
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COUNTY HIGHWAY 43 (HARRISON AVE)
STA. 320+52 TO STA. 321+67



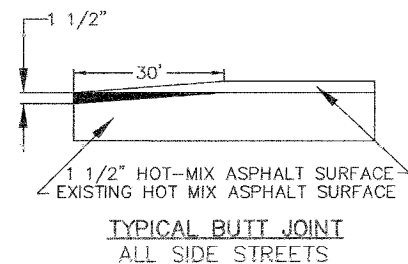
SECTION 04-00355-00-RS
COUNTY HIGHWAY 43 (HARRISON AVE)
STA. 320+52 TO STA. 329+00



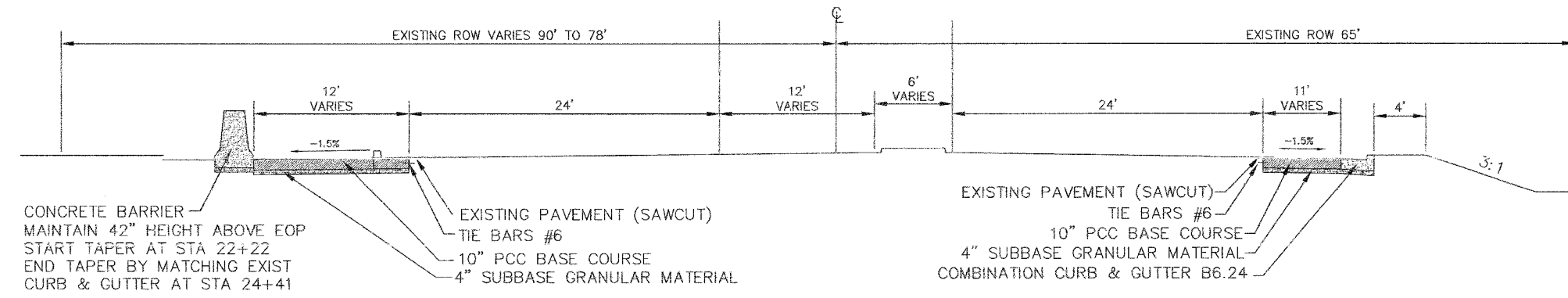
SECTION 04-00355-00-RS
COUNTY HIGHWAY 43 (HARRISON AVE)
STA. 329+00 TO STA. 333+86



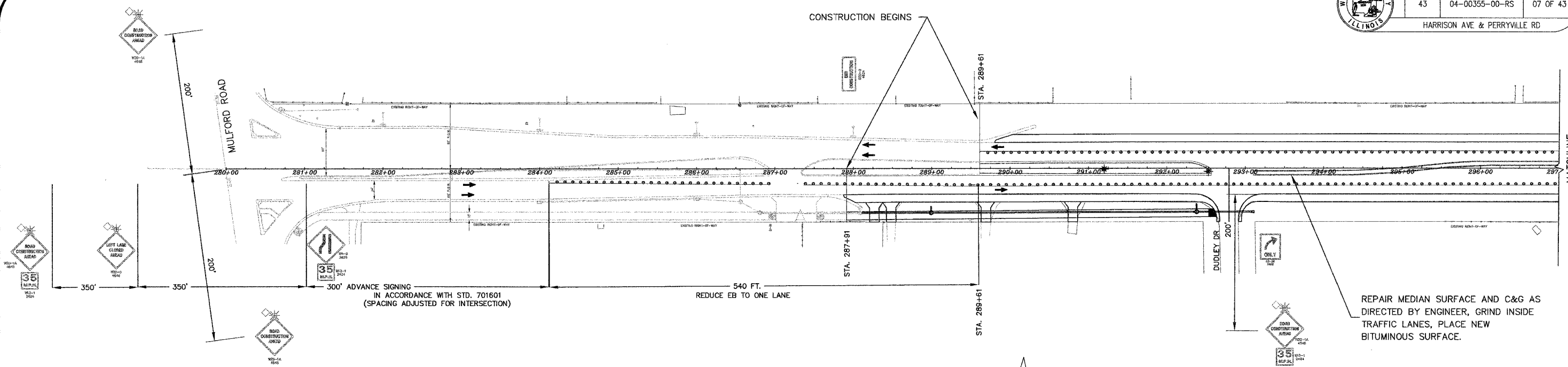
STRUCTURAL DESIGN TRAFFIC: Year 2017		
PV = 22,610	SU = 2,130	MU = 1,860
ROAD/STREET CLASSIFICATION: Class I		
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:		
P = 50%	S = 50%	M = 50%
TRAFFIC FACTOR: TF = 16.05		
SUBGRADE SUPPORT RATING:		
SSR = GRANULAR* (Sta. 320+52.70 to 334+09.73)		
SSR = _____ (Sta. _____ to _____)		
* BITUMINOUS USED		



SECTION 04-00355-00-RS
COUNTY HIGHWAY 11 (PERRYVILLE RD)
STA. 20+19 TO STA. 24+41



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WCHD, A. Lutz



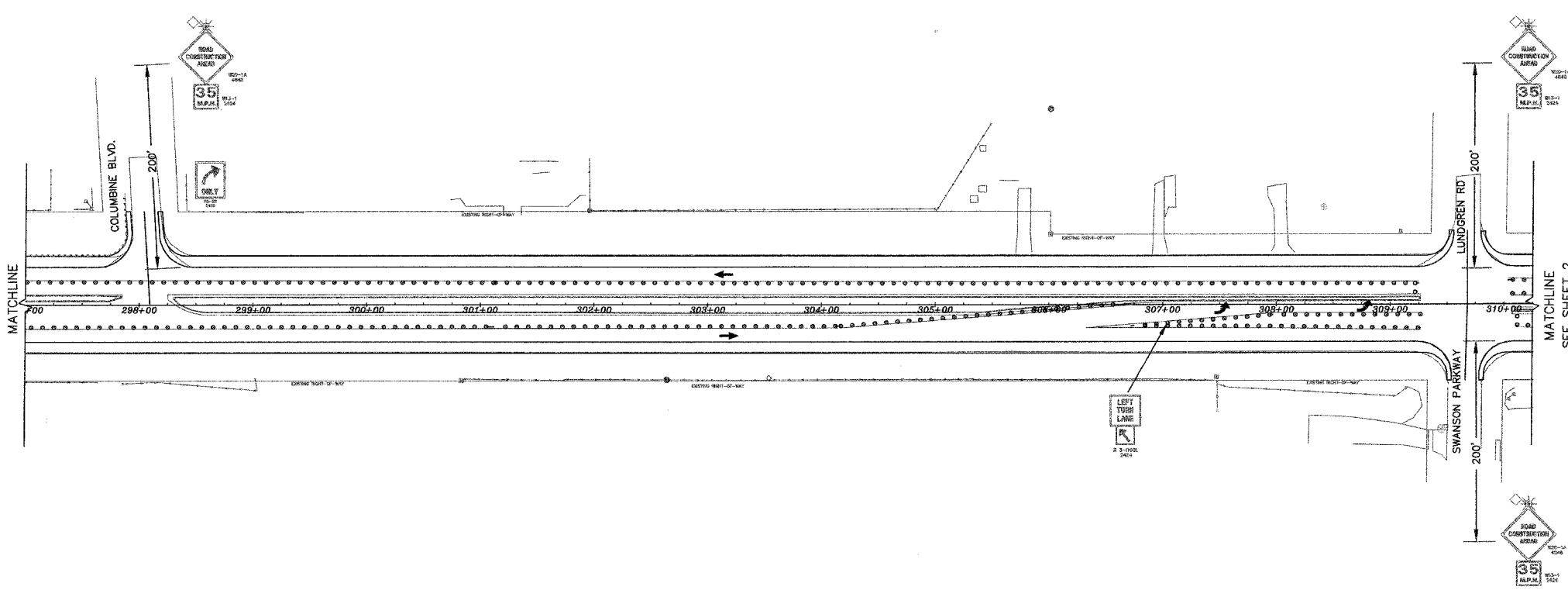
PHASING

1. RELOCATE OR COVER EXISTING REGULATORY SIGNS AS APPLICABLE
2. PLACE SIGNING, FLAGGERS AND TRAFFIC CONTROL DEVICES PER STD. 701601, 701701, 701901, 701606 AND IDOT DIST II DETAIL # 94.2 (ALL TEMPORARY TRAFFIC CONTROL PLACEMENT BASED ON 45 MPH DESIGN)
3. REMOVE MEDIAN IN AREAS SHOWN, CLOSE SIDE ROADS AS DIRECTED BY ENGINEER
4. CONSTRUCT AREAS TO BE USED BY TRAFFIC DURING CONSTRUCTION
5. RECONSTRUCT PERRYVILLE MEDIAN NOSE, NORTH LEG
6. POST AN ADVISORY SPEED LIMIT OF 35 MPH THROUGH CONSTRUCTION AREA

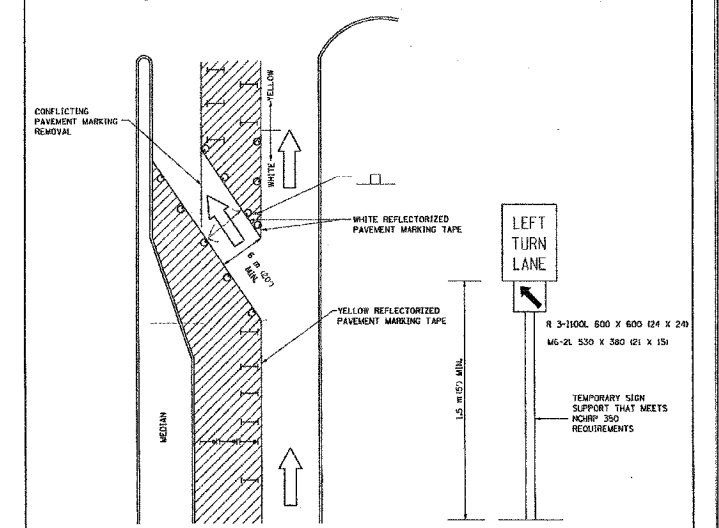
LEGEND

- PROP RECONSTRUCTION AREAS
- EXISTING CURB LINE
- PROPOSED CURB LINE
- TRAFFIC BARRICADES
- MEDIAN REMOVAL AREAS
- TEMPORARY PAVEMENT MARKING

SCALE 1"=60'



TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)



LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- BARRICADE OR DRUM WITH FLASHING BURNING LIGHT
- SIGN (SEE DETAIL)
- TYPE I OR II CHECK BARRICADE WITH STEADY LIGHT BURN

GENERAL NOTES

CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING BAY OPERATIONS. CONES SHALL BE A MINIMUM OF 110 CM IN HEIGHT. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR BAY OPERATIONS. ALL LIGHTS WILL BE UNIDIRECTIONAL.

REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.

THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANES AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" 80 300 600 X 800 124 X 210 AND 40-28 530 X 300 121 X 151 SHALL BE USED.

THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS TO REMAIN OPEN TO TRAFFIC SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OF ITEMS.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

REVISION	DATE	BY	SECTION	COUNTY	TOTAL SHEETS
REVISION	DATE	BY	SECTION	COUNTY	TOTAL SHEETS
REVISION	DATE	BY	SECTION	COUNTY	TOTAL SHEETS

SCALE: 1/4" = 10' (SHEET NO. OF SHEETS) 1/4" = 10' (SHEET NO. OF SHEETS)

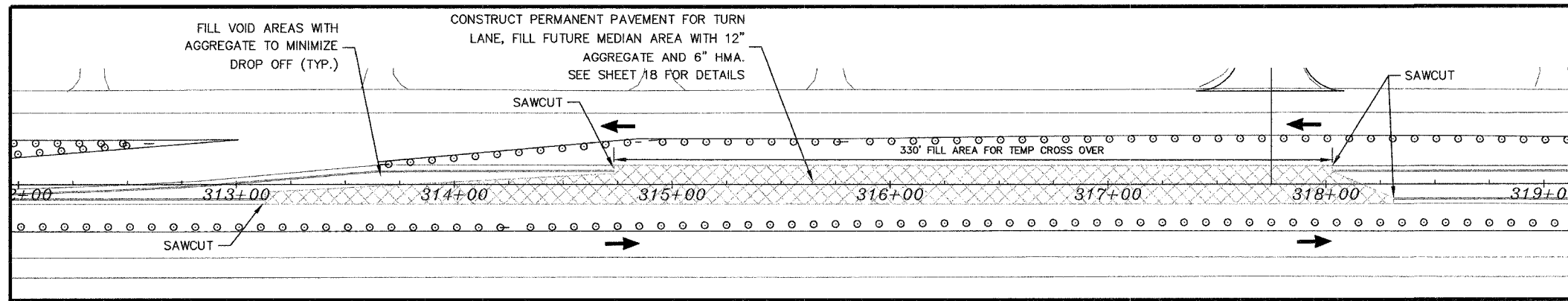
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) 94.2

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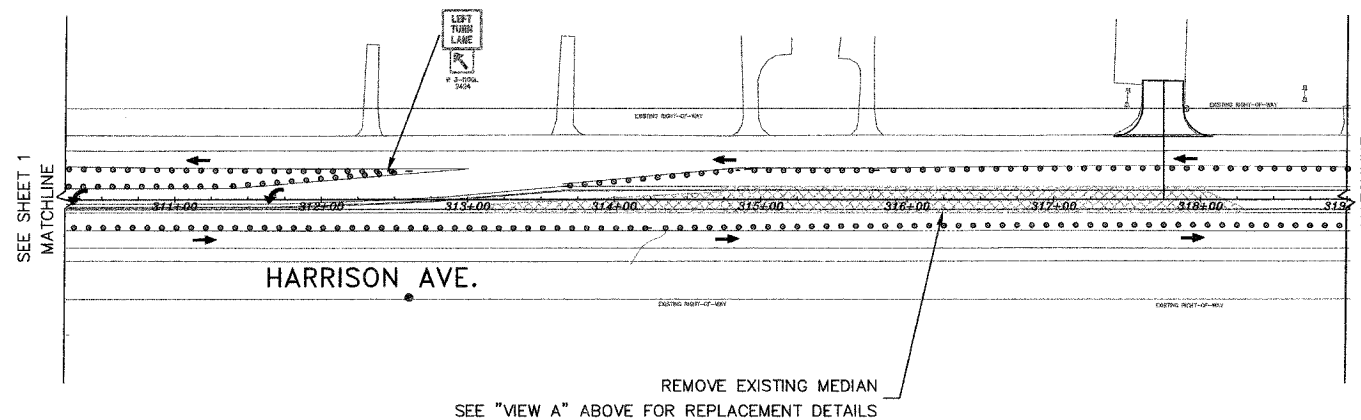


LEGEND

- PROP RECONSTRUCTION AREAS
- EXISTING CURB LINE
- PROPOSED CURB LINE
- TRAFFIC BARRICADES
- MEDIAN REMOVAL AREAS
- TEMPORARY PAVEMENT MARKING

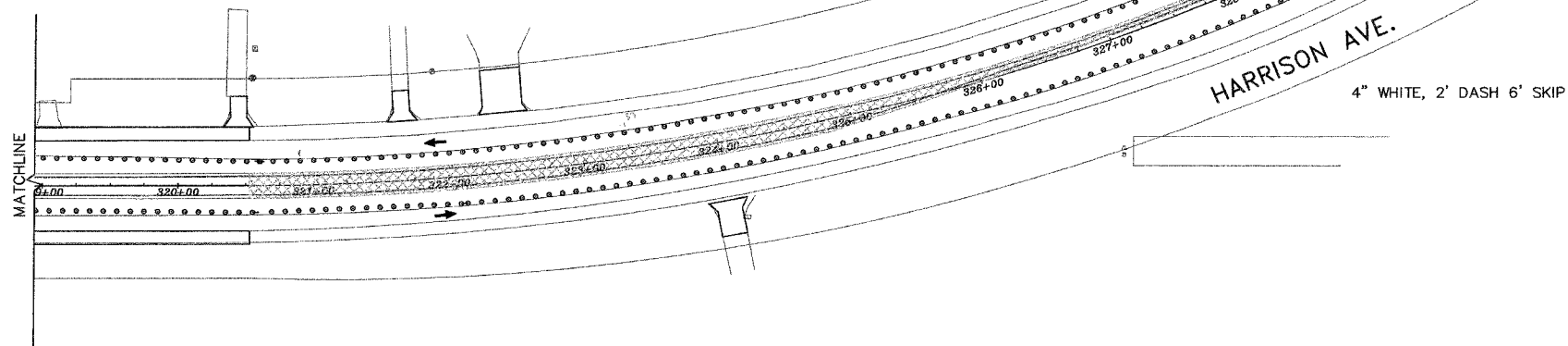


"VIEW A"
SCALE 1"=30'



PHASING

1. RELOCATE OR COVER EXISTING REGULATORY SIGNS AS APPLICABLE
2. PLACE SIGNING, FLAGGERS AND TRAFFIC CONTROL DEVICES PER STD. 701601, 701701, 701901, 701606 AND IDOT DIST II DETAIL # 94.2 (ALL TEMPORARY TRAFFIC CONTROL PLACEMENT BASED ON 45 MPH DESIGN)
3. REMOVE MEDIAN IN AREAS SHOWN, CLOSE SIDE ROADS AS DIRECTED BY ENGINEER
4. CONSTRUCT AREAS TO BE USED BY TRAFFIC DURING CONSTRUCTION
5. RECONSTRUCT PERRYVILLE MEDIAN NOSE, NORTH LEG
6. POST AN ADVISORY SPEED LIMIT OF 35 MPH THROUGH CONSTRUCTION AREA

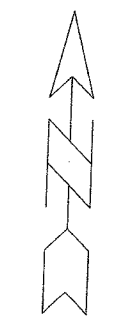


MAINTAIN,
1 EB THRU/RT LANE
1 EB LT, TURN LANE
1 EB RT, TURN LANE
1 WB LANE
NOTE: 12' TYP LANE WIDTH, 11' MIN

FILL REMOVED MEDIAN AREA WITH
12" AGGREGATE AND 6" HMA

SEE SHEET 3
FOR DETAILS

SEE SHEET 3
FOR DETAILS



SCALE 1"=60'



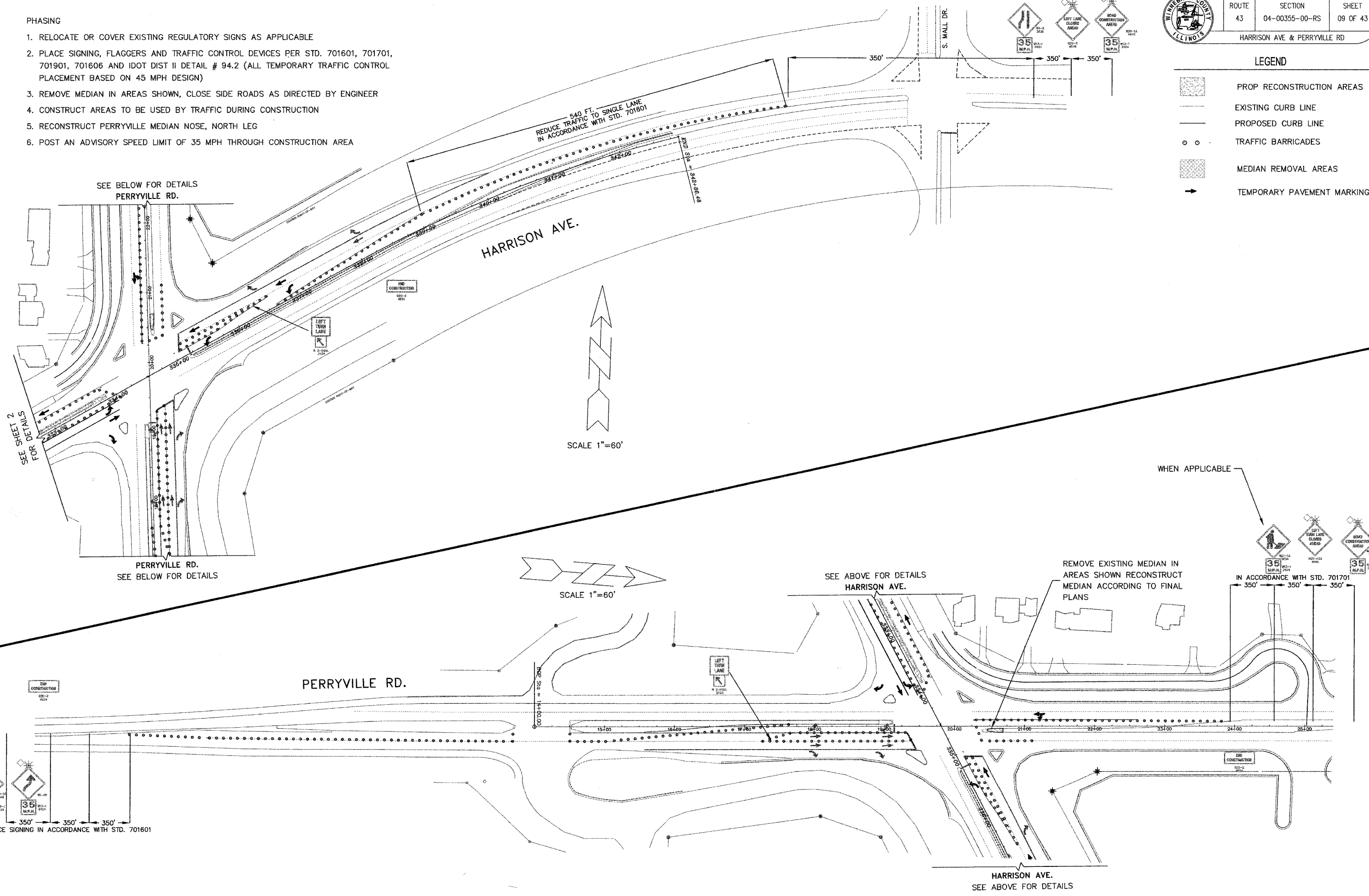
ROUTE	SECTION	SHEET
43	04-00355-00-RS	09 OF 43
HARRISON AVE & PERRYVILLE RD		

LEGEND

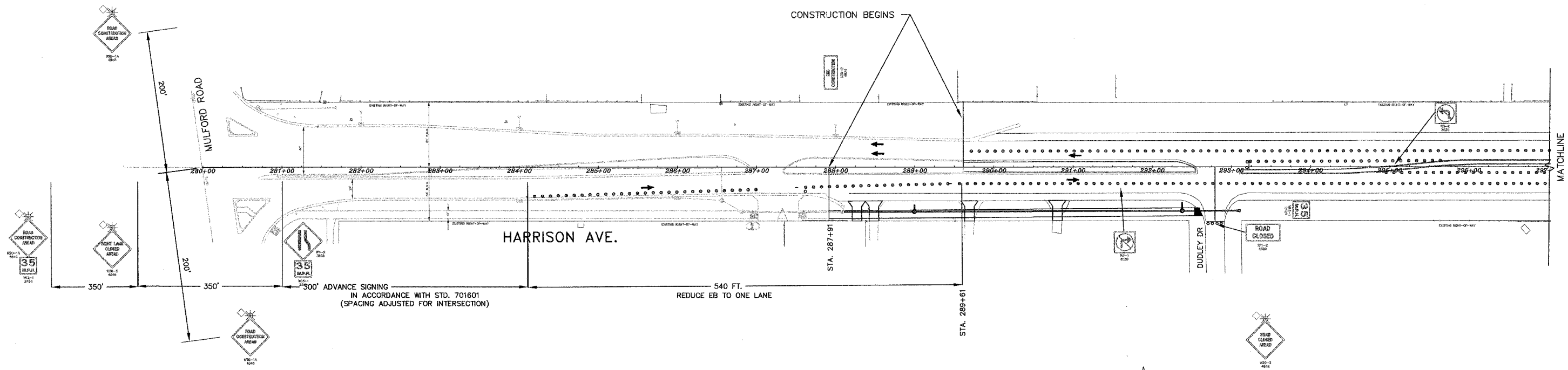
- PROP RECONSTRUCTION AREAS
- EXISTING CURB LINE
- PROPOSED CURB LINE
- TRAFFIC BARRICADES
- MEDIAN REMOVAL AREAS
- TEMPORARY PAVEMENT MARKING

PHASING

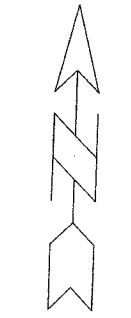
1. RELOCATE OR COVER EXISTING REGULATORY SIGNS AS APPLICABLE
2. PLACE SIGNING, FLAGGERS AND TRAFFIC CONTROL DEVICES PER STD. 701601, 701701, 701901, 701606 AND IDOT DIST II DETAIL # 94.2 (ALL TEMPORARY TRAFFIC CONTROL PLACEMENT BASED ON 45 MPH DESIGN)
3. REMOVE MEDIAN IN AREAS SHOWN, CLOSE SIDE ROADS AS DIRECTED BY ENGINEER
4. CONSTRUCT AREAS TO BE USED BY TRAFFIC DURING CONSTRUCTION
5. RECONSTRUCT PERRYVILLE MEDIAN NOSE, NORTH LEG
6. POST AN ADVISORY SPEED LIMIT OF 35 MPH THROUGH CONSTRUCTION AREA



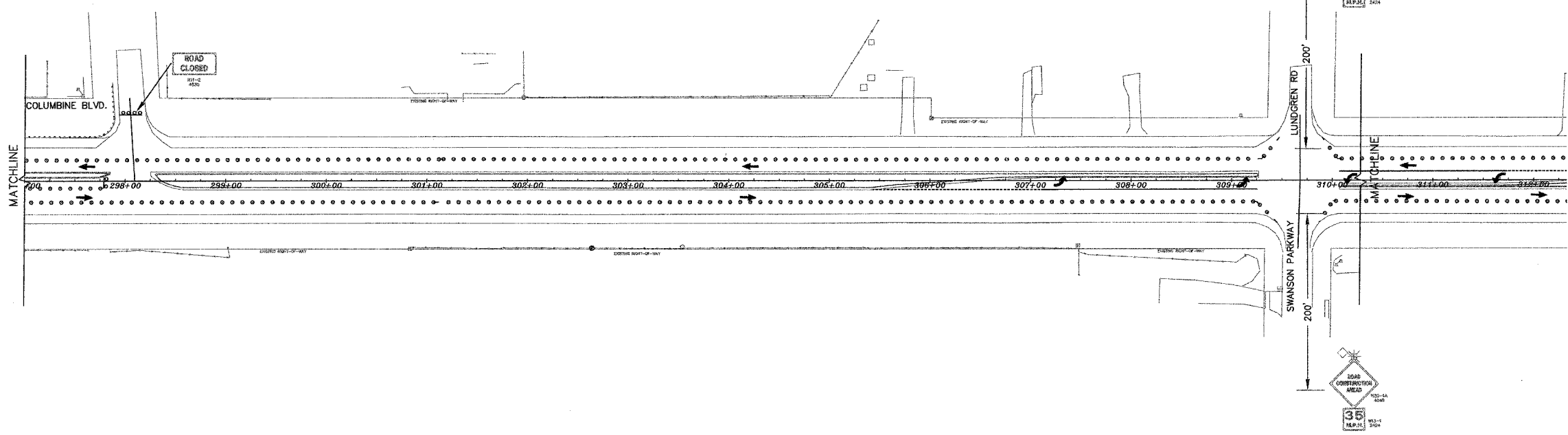
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- PHASING**
1. PLACE SIGNING, FLAGGERS AND TRAFFIC CONTROL DEVICES PER STD. 701601, 701701, 701901, 701606 AND IDOT DIST II DETAIL # 94.2 (ALL TEMPORARY TRAFFIC CONTROL PLACEMENT BASED ON 45 MPH DESIGN)
 2. INSTALL TEMPORARY STRIPING, SIGNING TEMPORARY TRAFFIC CONTROL DEVICES AND ASSIGN FLAGGERS. MOVE TRAFFIC TO INDICATED LANES. CLOSE SIDE ROADS AS DIRECTED BY ENGINEER
 3. REMOVE SUFFICIENT EXISTING PAVEMENT IN SW QUADRANT TO CONSTRUCT NEW ISLAND AND RELOCATE TRAFFIC SIGNAL TO NEW LOCATION. A TEMPORARY SIGNAL MAY BE NECESSARY DURING THE TIME THE PERMANENT SIGNAL IS BEING RELOCATED.
 4. REMOVE REMAINING EXISTING EB PAVEMENT AS INDICATED AND CONSTRUCT NEW PAVEMENT AND SHOULDERS.
 5. PRIOR TO SHUTTING DOWN FOR WINTER ALL TRAFFIC CONTROL DEVICES ARE TO BE REMOVED FROM ROADWAY AND LANES ARE TO BE OPENED AND STRIPED.



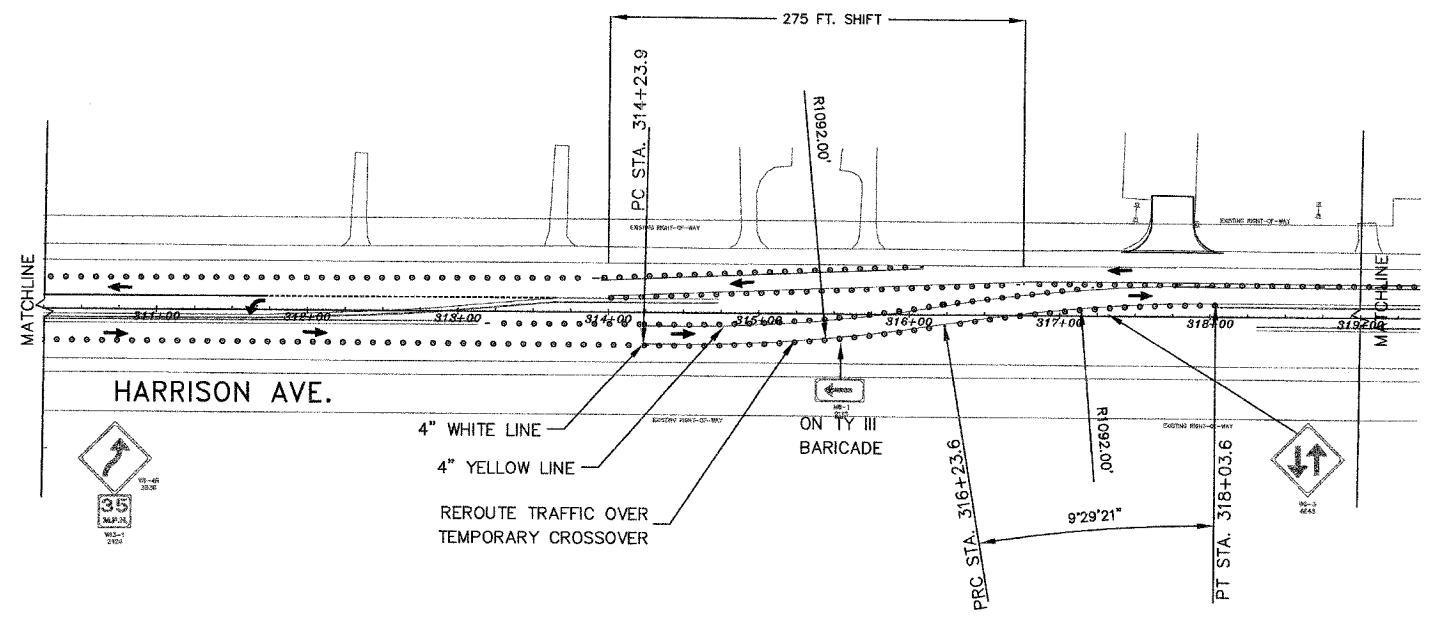
SCALE 1"=60'



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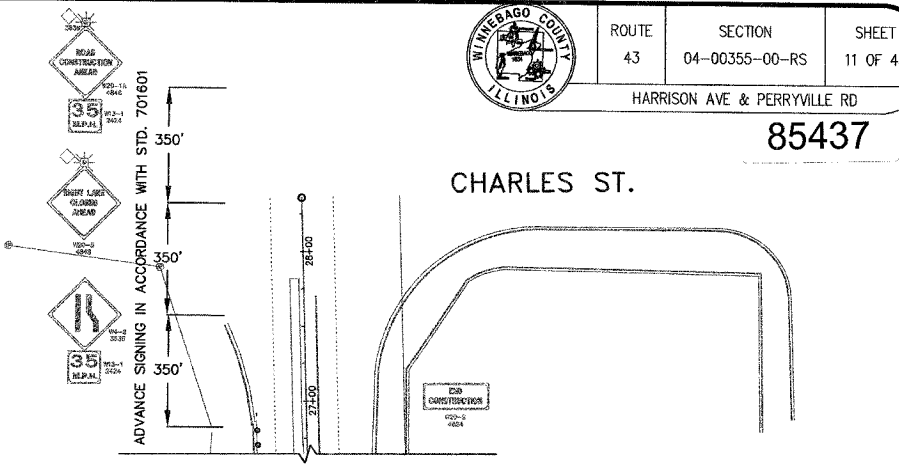


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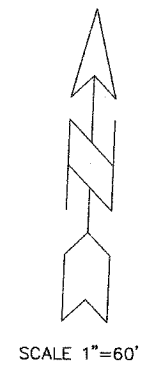
LEGEND

- PROP RECONSTRUCTION AREAS
- EXISTING CURB LINE
- PROPOSED CURB LINE
- TRAFFIC BARRICADES
- MEDIAN REMOVAL AREAS
- TEMPORARY PAVEMENT MARKING

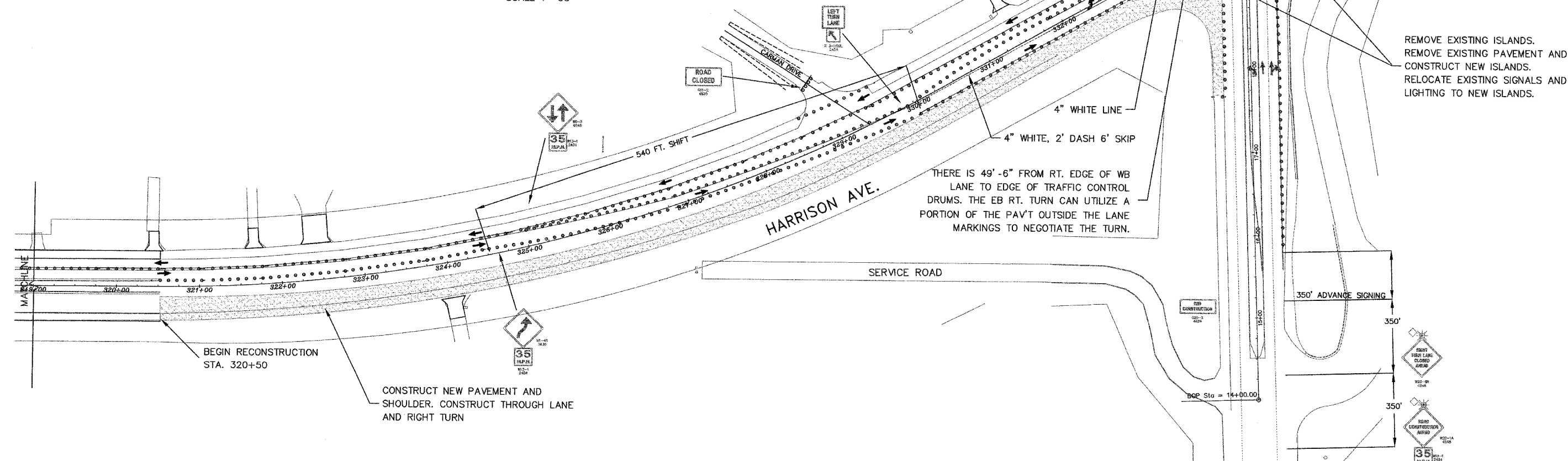


PHASING

1. PLACE SIGNING, FLAGGERS AND TRAFFIC CONTROL DEVICES PER STD. 701601, 701701, 701901, 701606 AND IDOT DIST II DETAIL # 94.2 (ALL TEMPORARY TRAFFIC CONTROL PLACEMENT BASED ON 45 MPH DESIGN)
2. INSTALL TEMPORARY STRIPING, SIGNING TEMPORARY TRAFFIC CONTROL DEVICES AND ASSIGN FLAGGERS. MOVE TRAFFIC TO INDICATED LANES. CLOSE SIDE ROADS AS DIRECTED BY ENGINEER
3. REMOVE SUFFICIENT EXISTING PAVEMENT IN SW QUADRANT TO CONSTRUCT NEW ISLAND AND RELOCATE TRAFFIC SIGNAL TO NEW LOCATION. A TEMPORARY SIGNAL MAY BE NECESSARY DURING THE TIME THE PERMANENT SIGNAL IS BEING RELOCATED.
4. REMOVE REMAINING EXISTING EB PAVEMENT AS INDICATED AND CONSTRUCT NEW PAVEMENT AND SHOULDERS.
5. PRIOR TO SHUTTING DOWN FOR WINTER ALL TRAFFIC CONTROL DEVICES ARE TO BE REMOVED FROM ROADWAY AND LANES ARE TO BE OPENED AND STRIPED.



STRIPE AREA FOR:
1 EB THRU/RT LANE
1 EB IT, TURN LANE
1 WB LANE
INTRODUCE IT, TURN LANE EAST OF CARMAN DRIVE.
NOTE: 12' TYP LANE WIDTH, 11' MIN



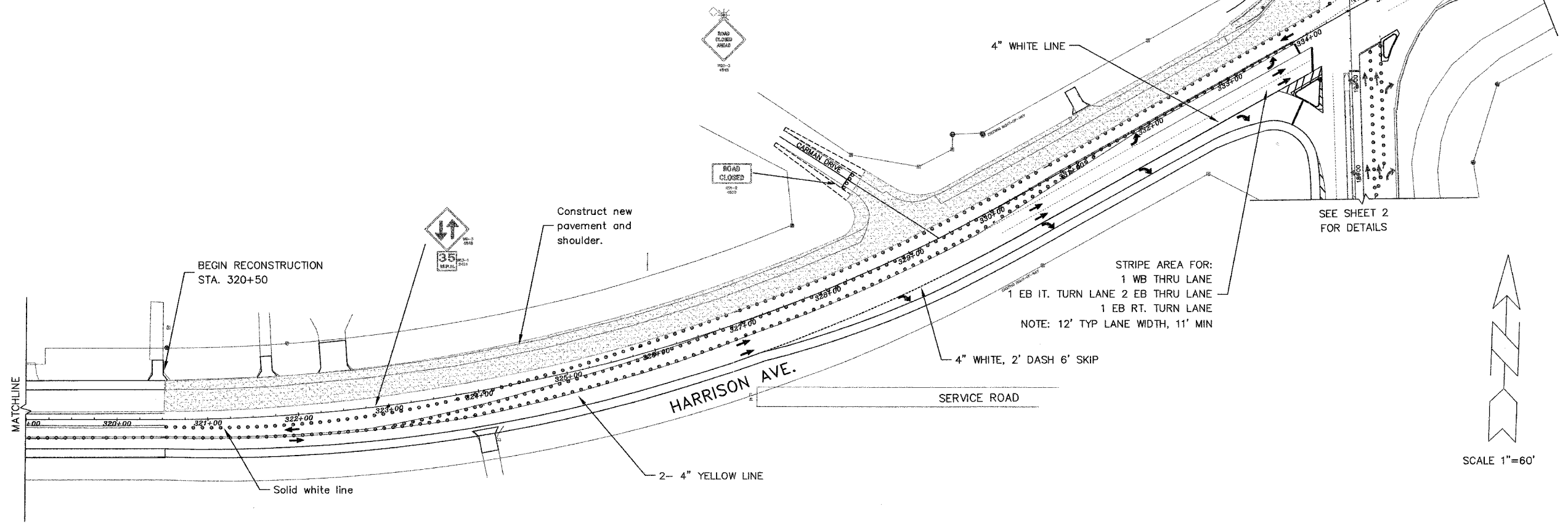
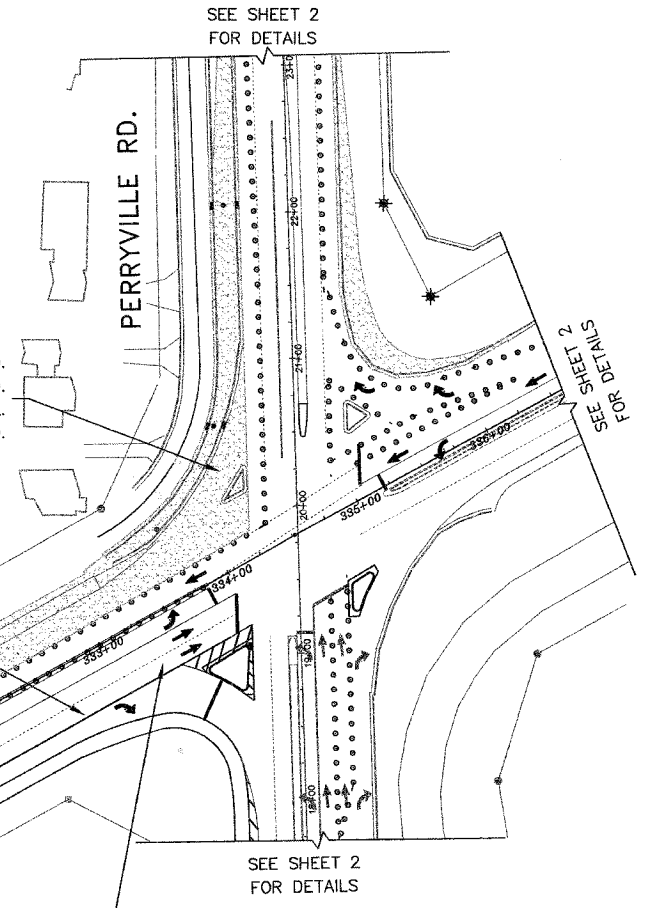
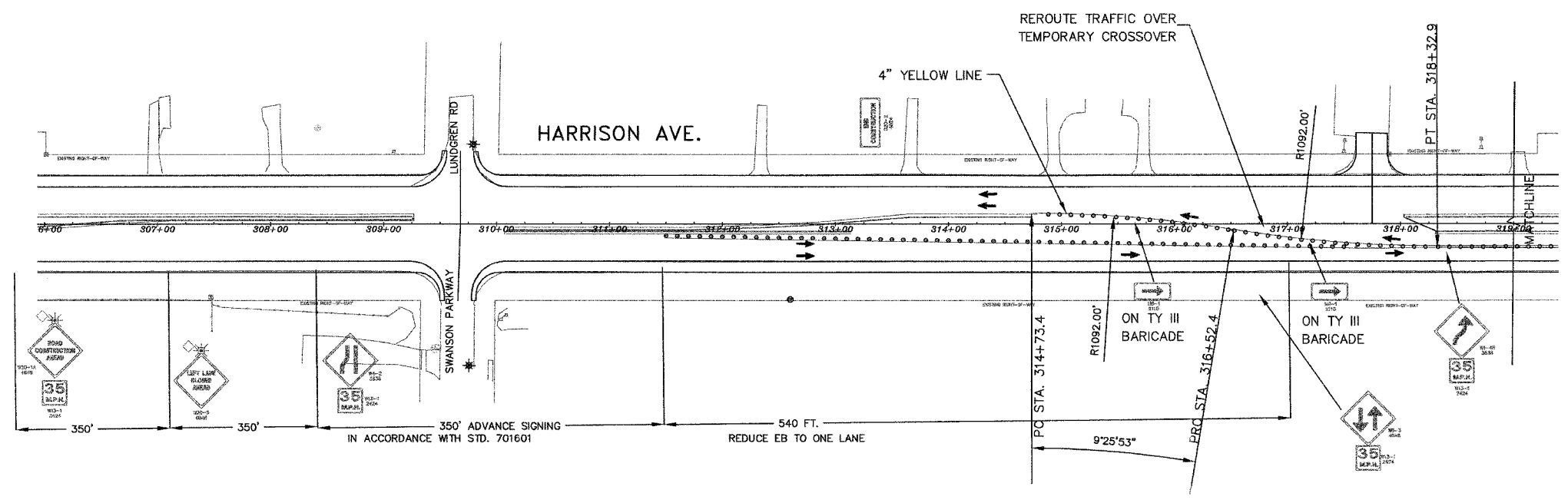
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ROUTE	SECTION	SHEET
43	04-00355-00-RS	12 OF 43
HARRISON AVE & PERRYVILLE RD		

LEGEND

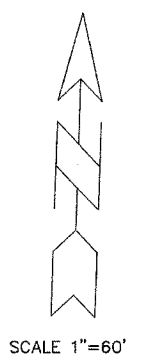
- PROP RECONSTRUCTION AREAS
- EXISTING CURB LINE
- PROPOSED CURB LINE
- TRAFFIC BARRICADES
- MEDIAN REMOVAL AREAS
- TEMPORARY PAVEMENT MARKING



PHASING

1. PLACE SIGNING, FLAGGERS AND TRAFFIC CONTROL DEVICES PER STD. 701601, 701701, 701901, 701606 AND IDOT DIST II DETAIL # 94.2 (ALL TEMPORARY TRAFFIC CONTROL PLACEMENT BASED ON 45 MPH DESIGN)
2. CONSTRUCT NEW NW ISLAND AND RELOCATE TRAFFIC SIGNAL AND LIGHTING TO NEW ISLAND.
3. REMOVE EXISTING WB PAVEMENT AS INDICATED AND CONSTRUCT NEW PAVEMENT AND SHOULDERS. INCLUDE CARMAN DRIVE APPROACH. (CARMAN DRIVE WILL CONTINUE TO REMAIN CLOSED AFTER THIS STAGE)
4. CONSTRUCT NEW RIGHT TURN LANE ON NORTH LEG OF PERRYVILLE, INCLUDING NEW ISLAND.
5. WIDEN NB PERRYVILLE PAVEMENT AND CONSTRUCT ISLAND AS SHOWN.

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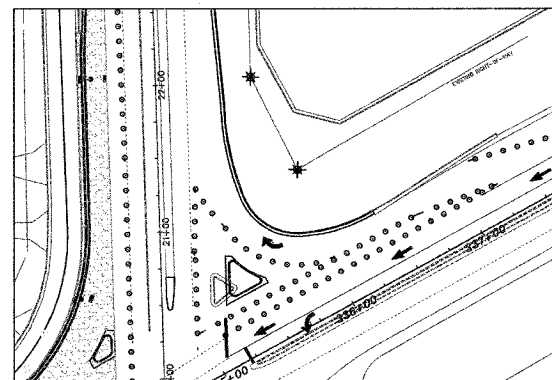
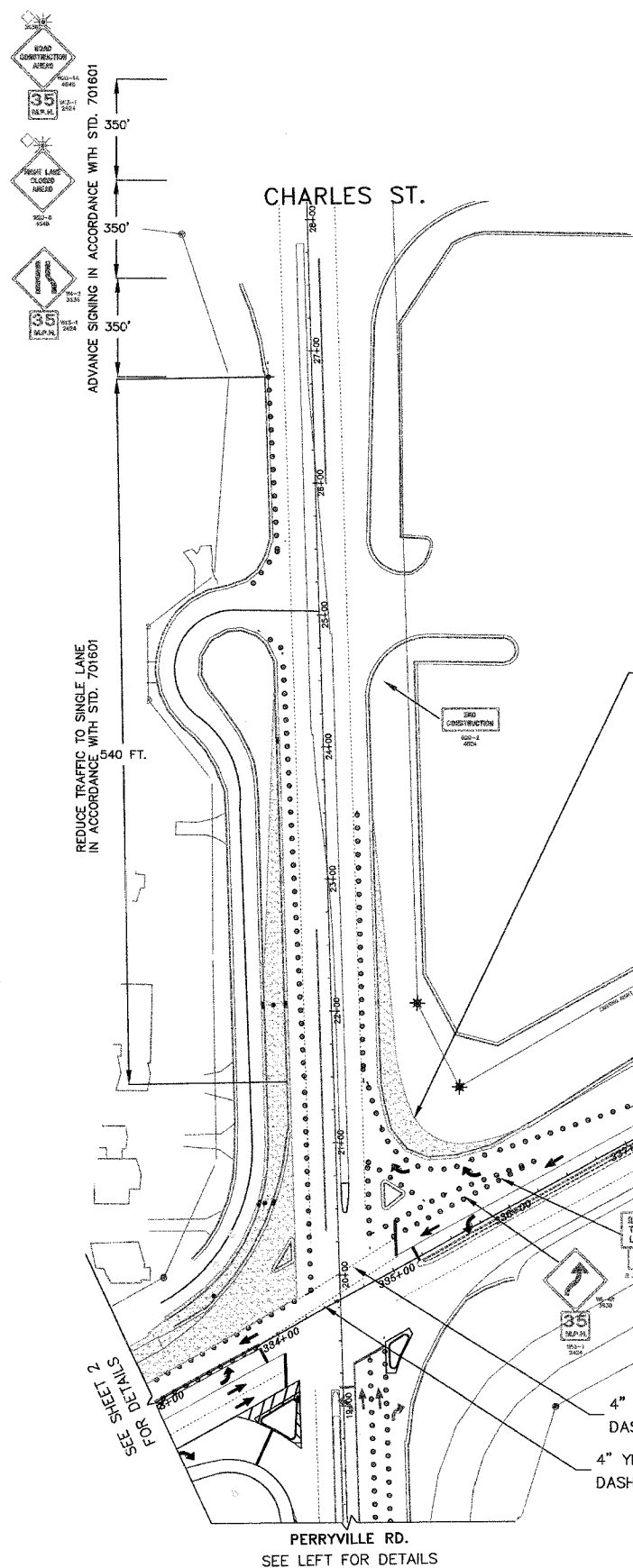
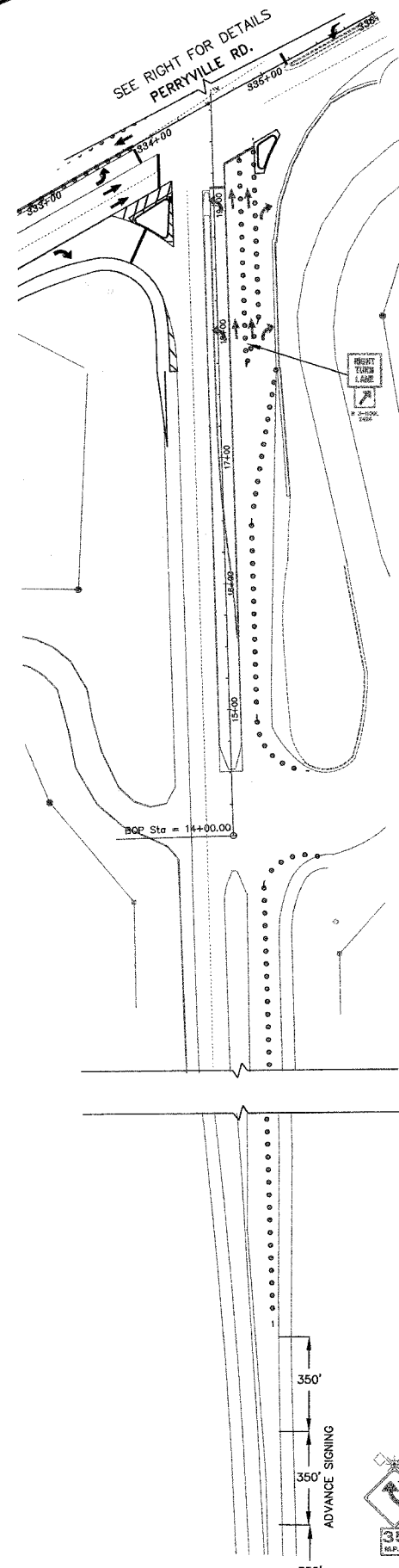


PHASING

1. PLACE SIGNING, FLAGGERS AND TRAFFIC CONTROL DEVICES PER STD. 701601, 701701, 701901, 701606 AND IDOT DIST II DETAIL # 94.2 (ALL TEMPORARY TRAFFIC CONTROL PLACEMENT BASED ON 45 MPH DESIGN)
2. CONSTRUCT NEW NW ISLAND AND RELOCATE TRAFFIC SIGNAL AND LIGHTING TO NEW ISLAND.
3. REMOVE EXISTING WB PAVEMENT AS INDICATED AND CONSTRUCT NEW PAVEMENT AND SHOULDERS. INCLUDE CARMAN DRIVE APPROACH. (CARMAN DRIVE WILL CONTINUE TO REMAIN CLOSED AFTER THIS STAGE)
4. CONSTRUCT NEW RIGHT TURN LANE ON NORTH LEG OF PERRYVILLE, INCLUDING NEW ISLAND.
5. WIDEN NB PERRYVILLE PAVEMENT AND CONSTRUCT ISLAND AS SHOWN.



SCALE 1"=60'

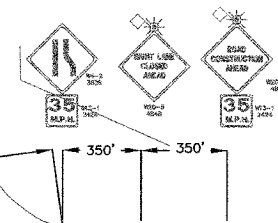
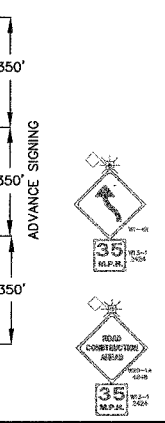


PHASE 2

- PHASE 1 - CONSTRUCT PAVEMENT IN WIDENING AREA
- PHASE 2 - REDIRECT TRAFFIC TO NEW PAVEMENT AREA WHILE THE NORTH PERRYVILLE AND WEST BOUND HARRISON RIGHT LANES REMAIN CLOSED
- PHASE 3 - CONSTRUCT ISLAND AND SIGNALS

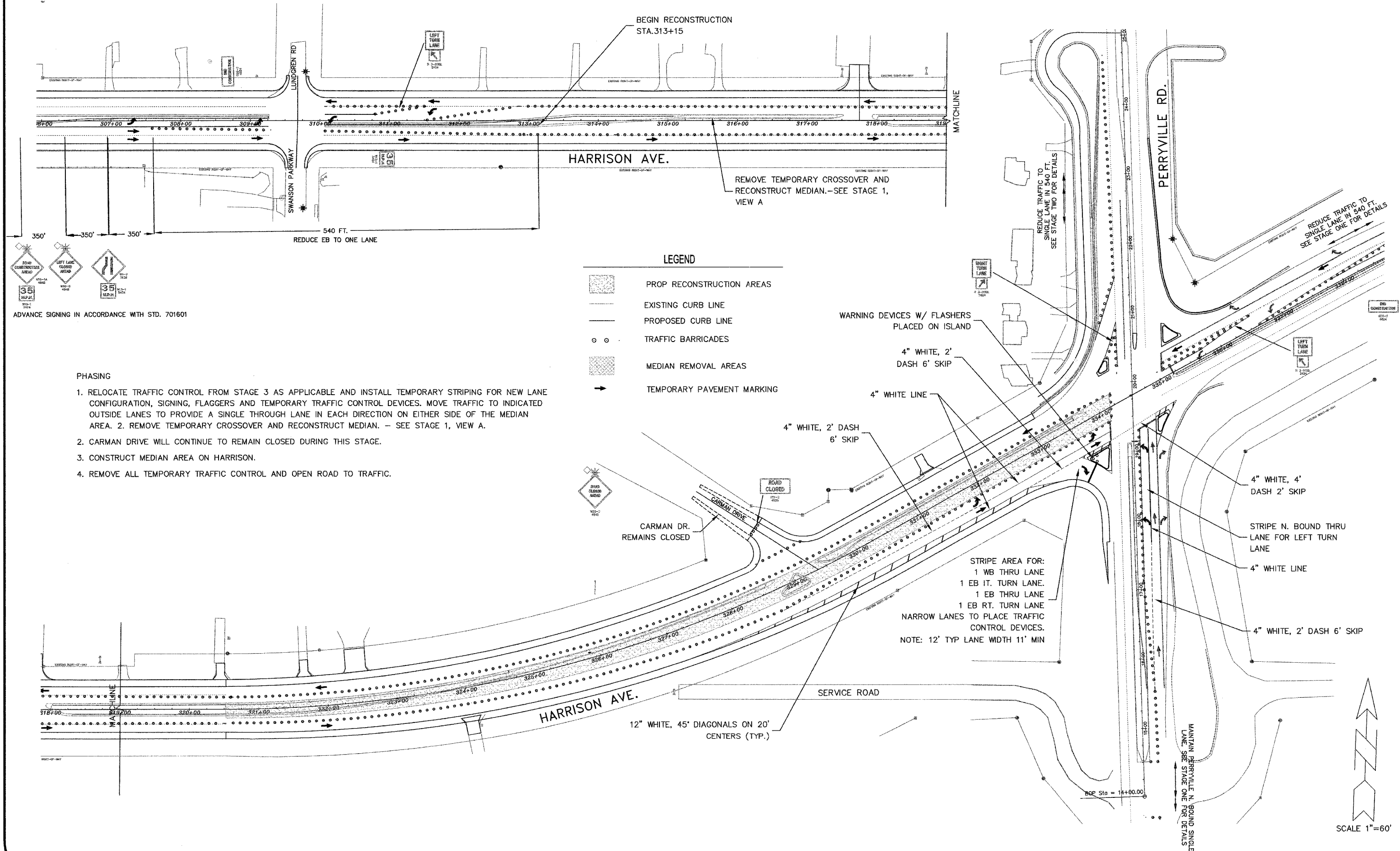
REDUCE TRAFFIC TO SINGLE LANE IN ACCORDANCE WITH STD. 701601

540 FT. REDUCE TRAFFIC TO SINGLE LANE IN ACCORDANCE WITH STD. 701601



4" WHITE, 4' DASH 2' SKIP
 4" YELLOW, 4' DASH 2' SKIP

\\hfd\p2\county\shared\delaware\highway\dept\projects\04-00355-00-RS (Harrison & Perryville Staging).dwg, 4/16/2008 12:53:09 PM, Cdr TC5490.pcl, WCHD, Joe Barakat



LEGEND

- PROP RECONSTRUCTION AREAS
- EXISTING CURB LINE
- PROPOSED CURB LINE
- TRAFFIC BARRICADES
- MEDIAN REMOVAL AREAS
- TEMPORARY PAVEMENT MARKING

PHASING

1. RELOCATE TRAFFIC CONTROL FROM STAGE 3 AS APPLICABLE AND INSTALL TEMPORARY STRIPING FOR NEW LANE CONFIGURATION, SIGNING, FLAGGERS AND TEMPORARY TRAFFIC CONTROL DEVICES. MOVE TRAFFIC TO INDICATED OUTSIDE LANES TO PROVIDE A SINGLE THROUGH LANE IN EACH DIRECTION ON EITHER SIDE OF THE MEDIAN AREA. 2. REMOVE TEMPORARY CROSSOVER AND RECONSTRUCT MEDIAN. - SEE STAGE 1, VIEW A.
2. CARMAN DRIVE WILL CONTINUE TO REMAIN CLOSED DURING THIS STAGE.
3. CONSTRUCT MEDIAN AREA ON HARRISON.
4. REMOVE ALL TEMPORARY TRAFFIC CONTROL AND OPEN ROAD TO TRAFFIC.

ADVANCE SIGNING IN ACCORDANCE WITH STD. 701601

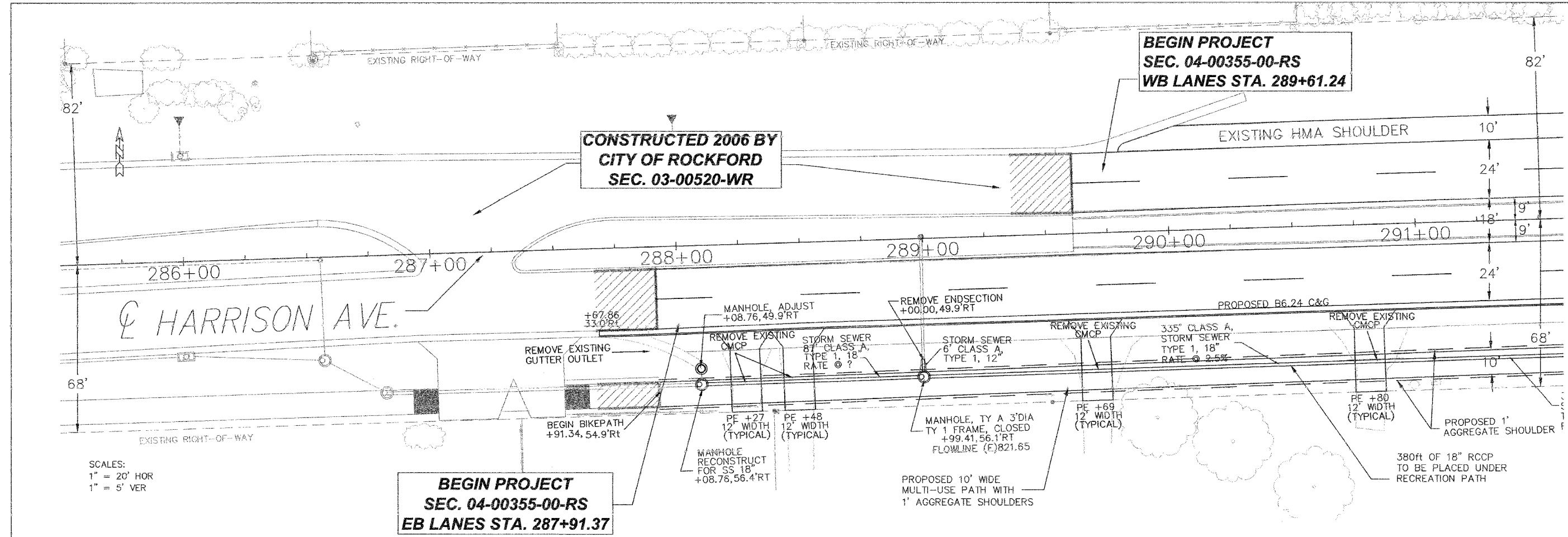
STRIPE AREA FOR:
 1 WB THRU LANE
 1 EB LT. TURN LANE.
 1 EB THRU LANE
 1 EB RT. TURN LANE
 NARROW LANES TO PLACE TRAFFIC CONTROL DEVICES.
 NOTE: 12' TYP LANE WIDTH 11' MIN

SCALE 1"=60'

STAGE 4

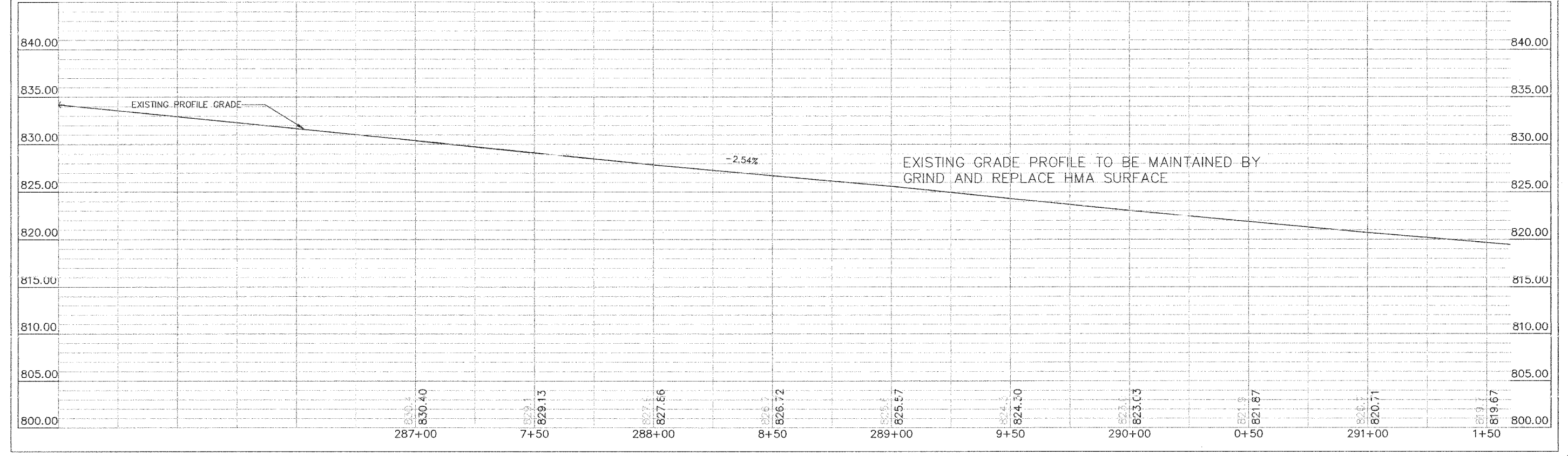
STAGING PLAN

\\hfd402\county_shared\Roads\Highway_Dept\Projects\04-00355-00-RS\Harrison & Perryville Staging.dwg, 4/16/2008 3:18:25 PM, Doc: TC5400.dwg, WCHD, Joe Buschek



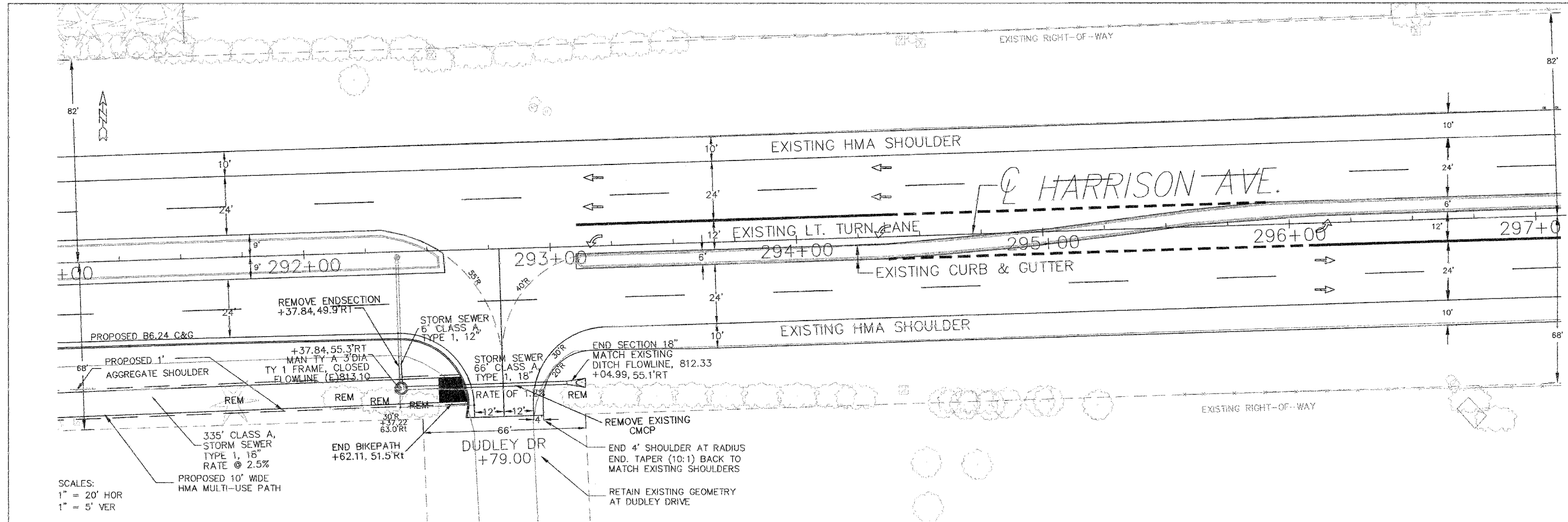
SCALES:
1" = 20' HOR
1" = 5' VER

**BEGIN PROJECT
SEC. 04-00355-00-RS
EB LANES STA. 287+91.37**

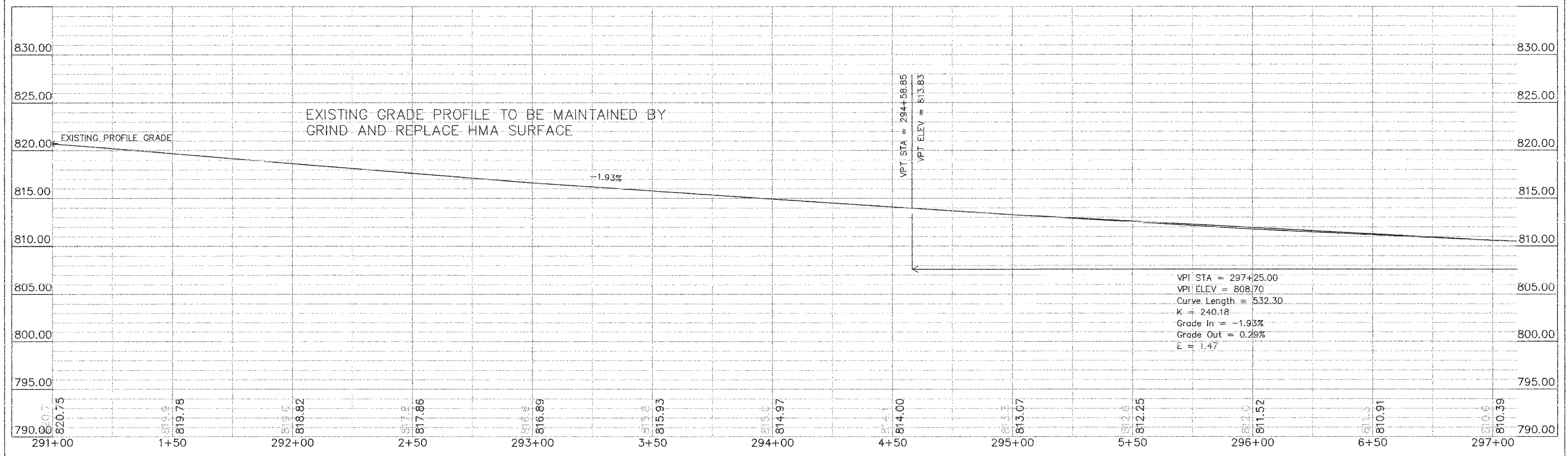


HARRISON AVENUE PLAN & PROFILE

F:\Library\Projects\Harrison Avenue\2001001.dwg, 4-9-2008 9:18:00 AM, B.L. WRC, A. Linking



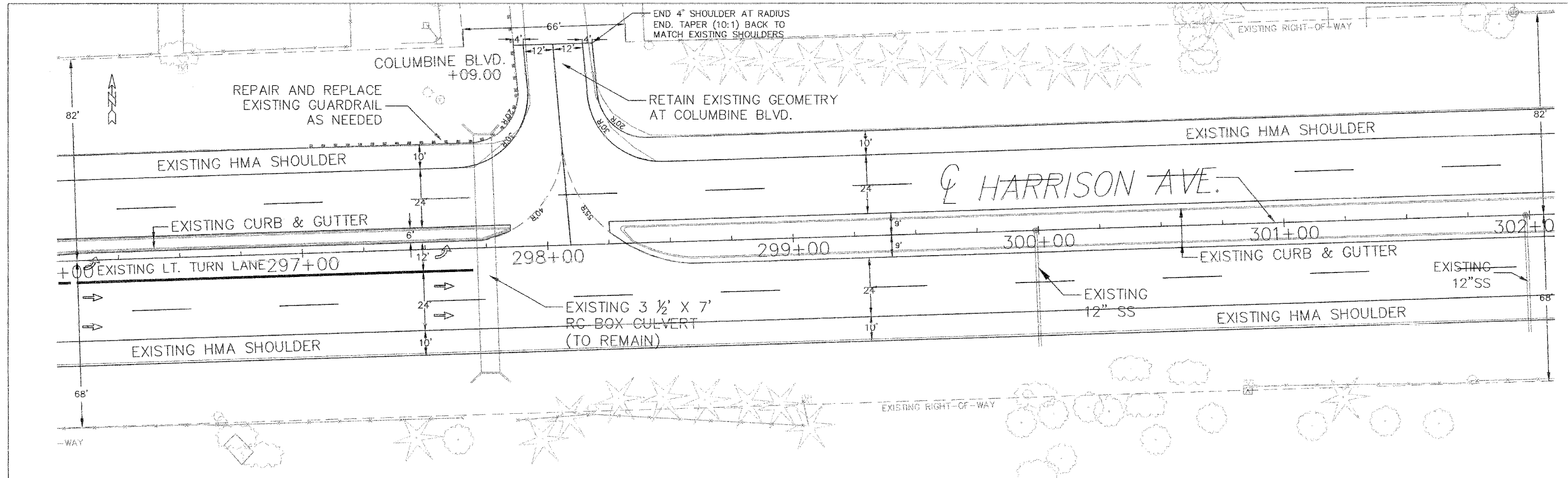
SCALES:
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1" = 5' VER



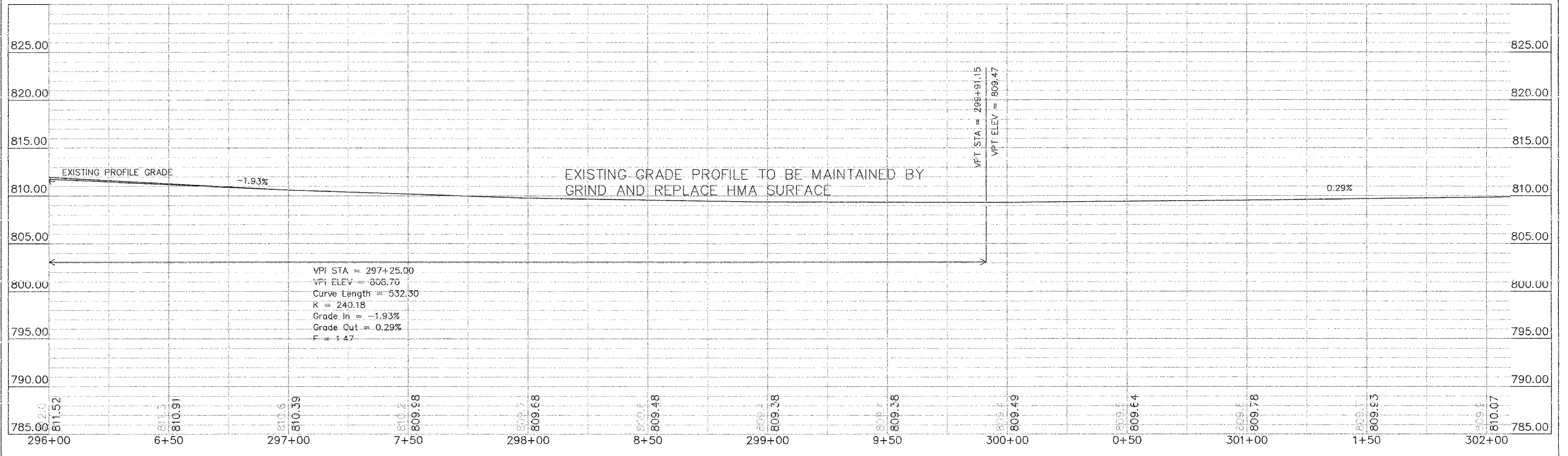
VPI STA = 297+25.00
VPI ELEV = 808.70
Curve Length = 532.30
K = 240.18
Grade In = -1.93%
Grade Out = 0.29%
E = 1.47

HARRISON AVENUE PLAN & PROFILE

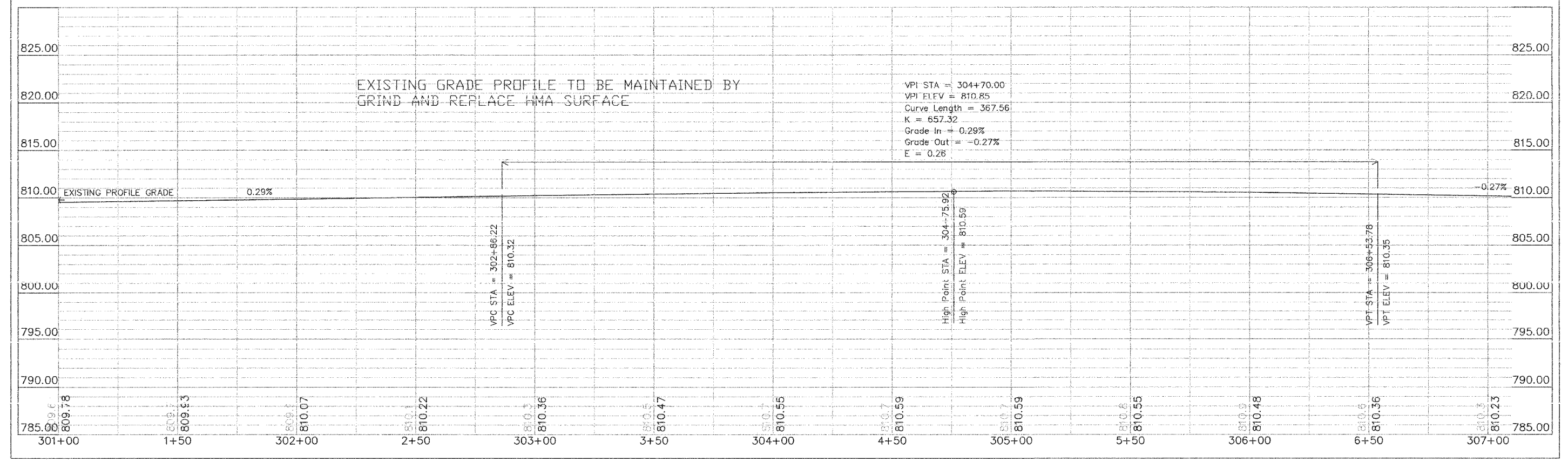
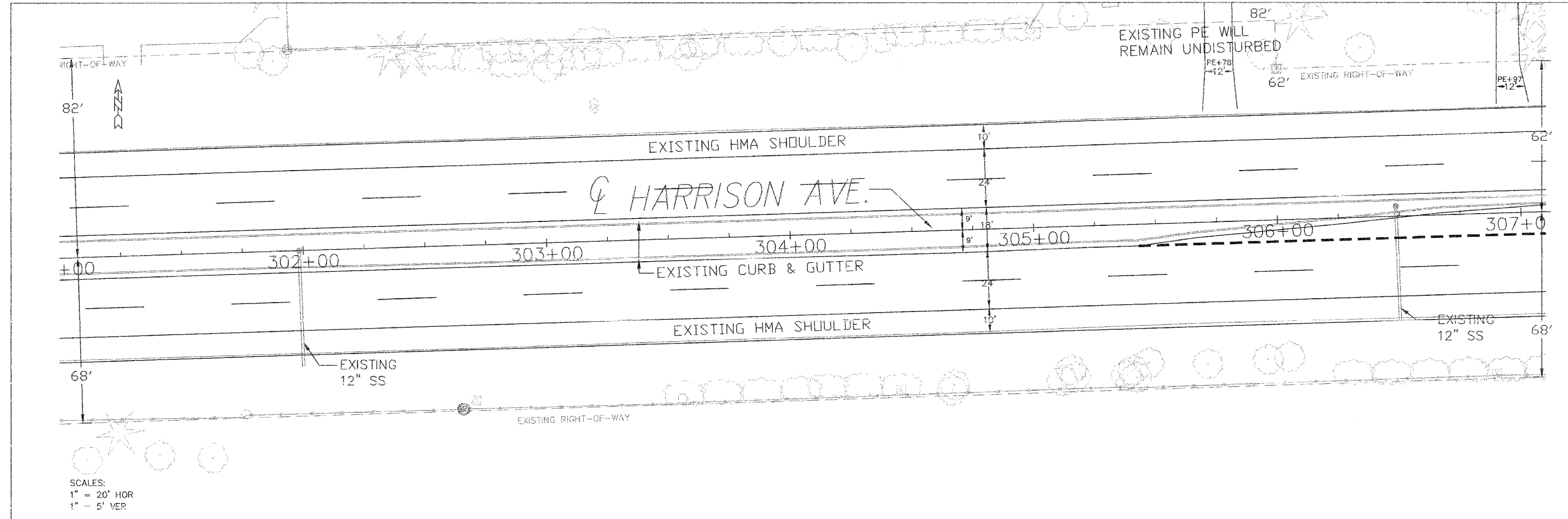
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SCALES:
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 1" = 5' VER

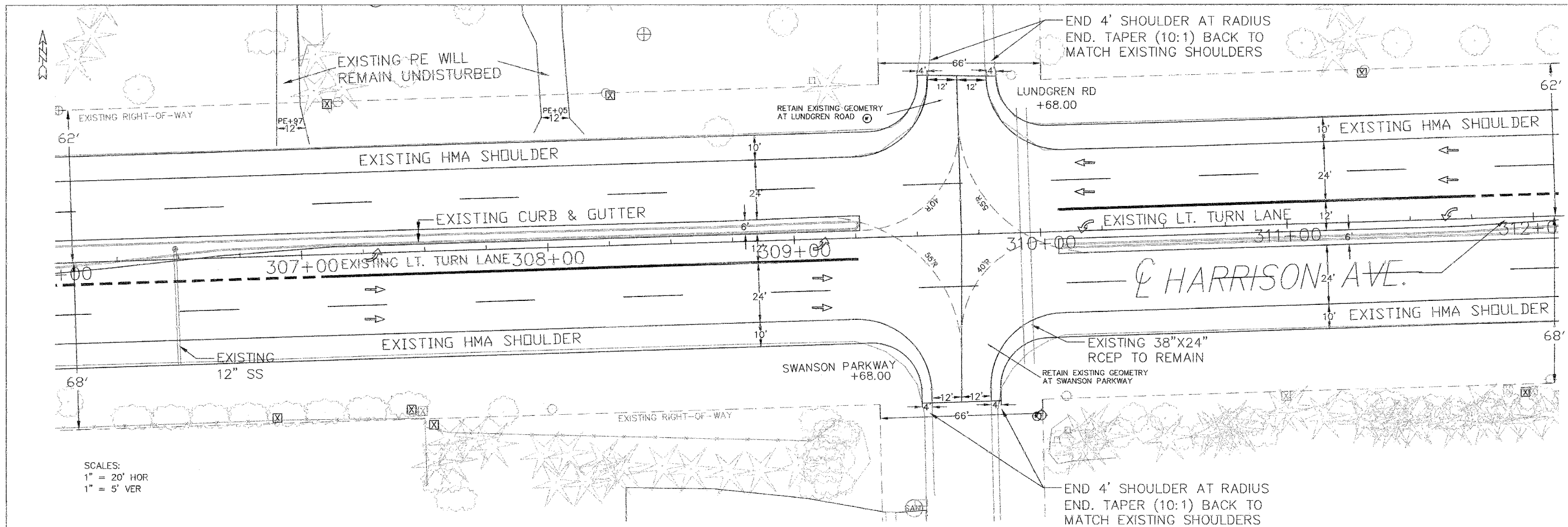


HARRISON AVENUE PLAN & PROFILE

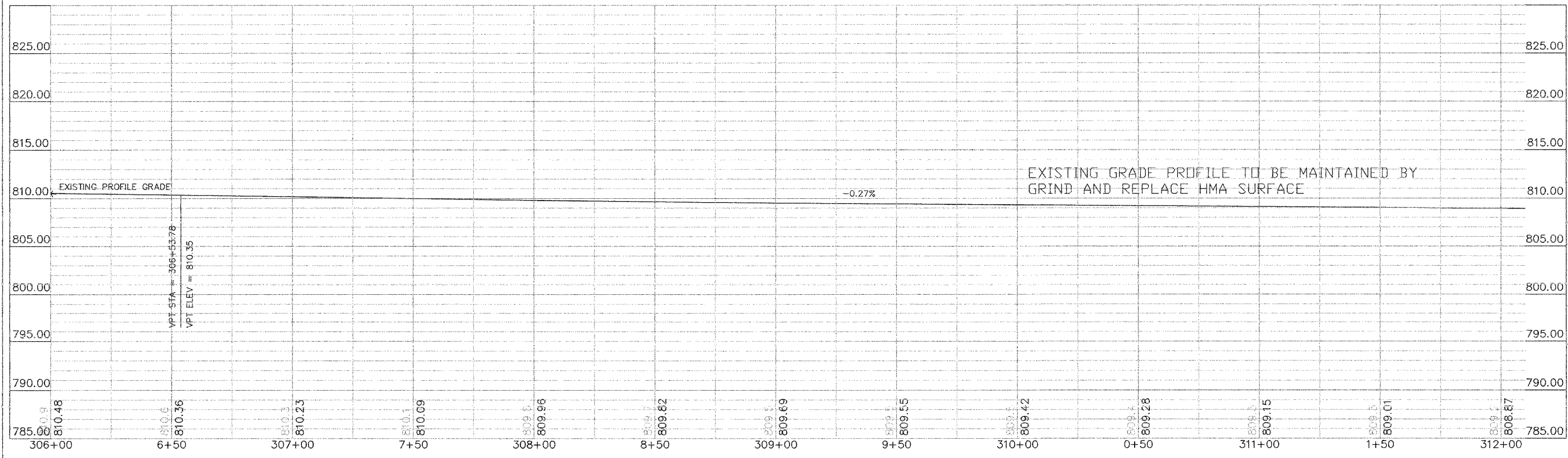


HARRISON AVENUE PLAN & PROFILE

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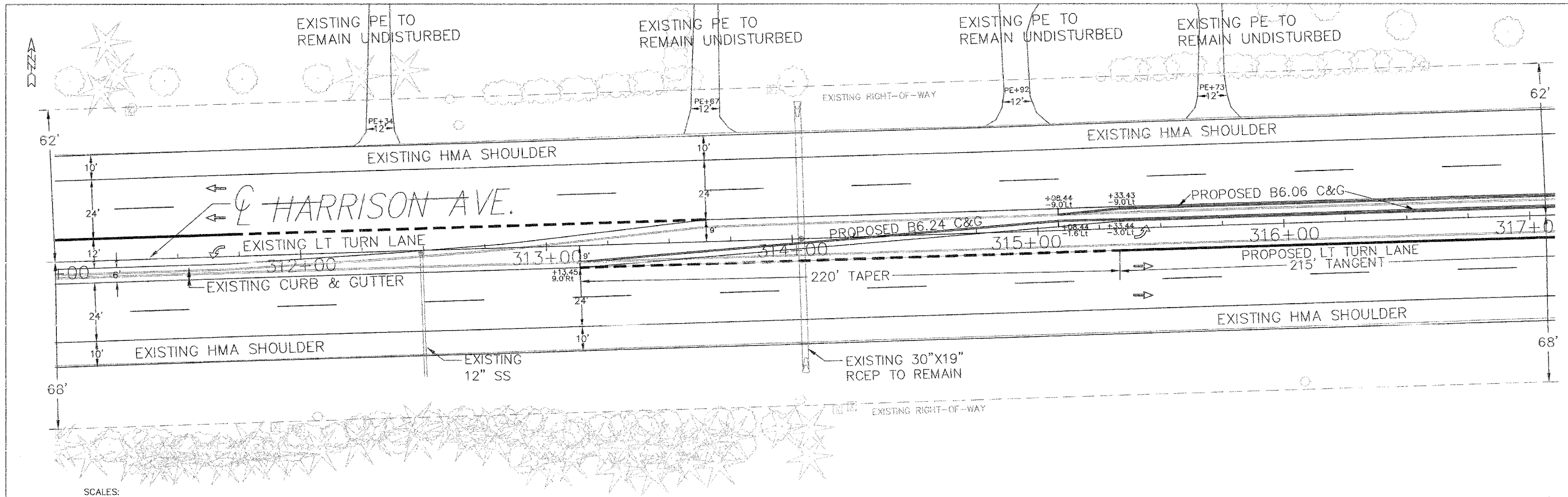


SCALES:
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1" = 5' VER

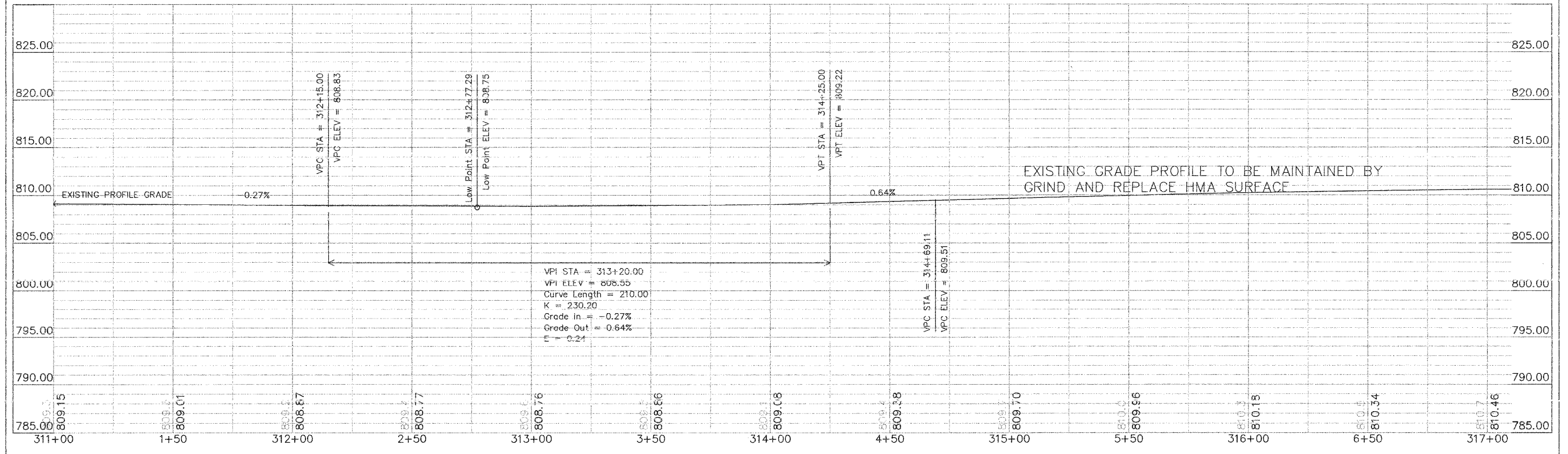


HARRISON AVENUE PLAN & PROFILE

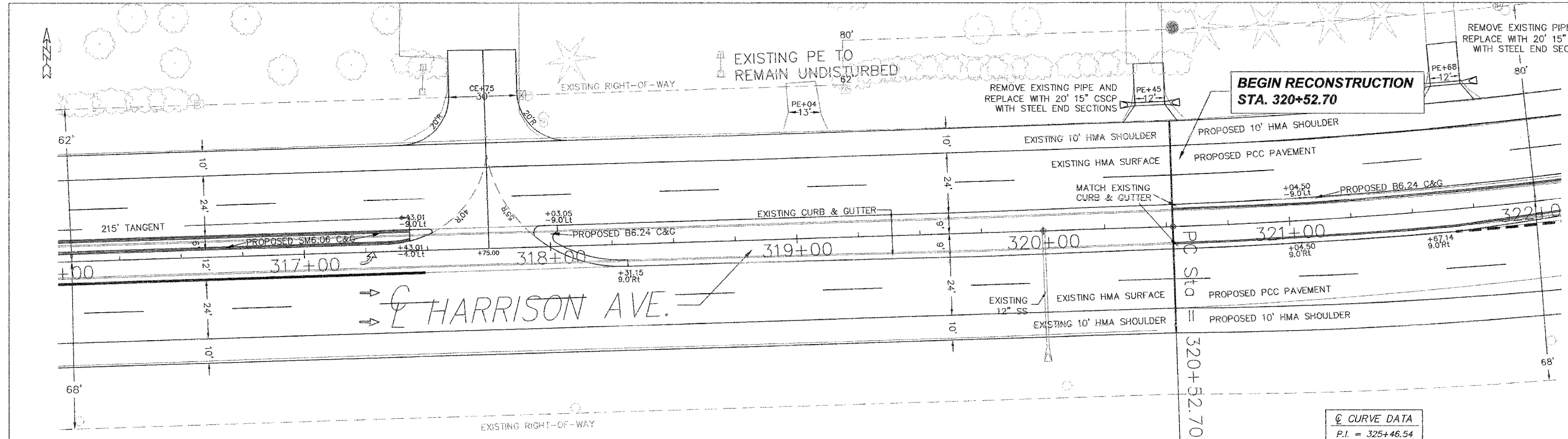
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SCALES:
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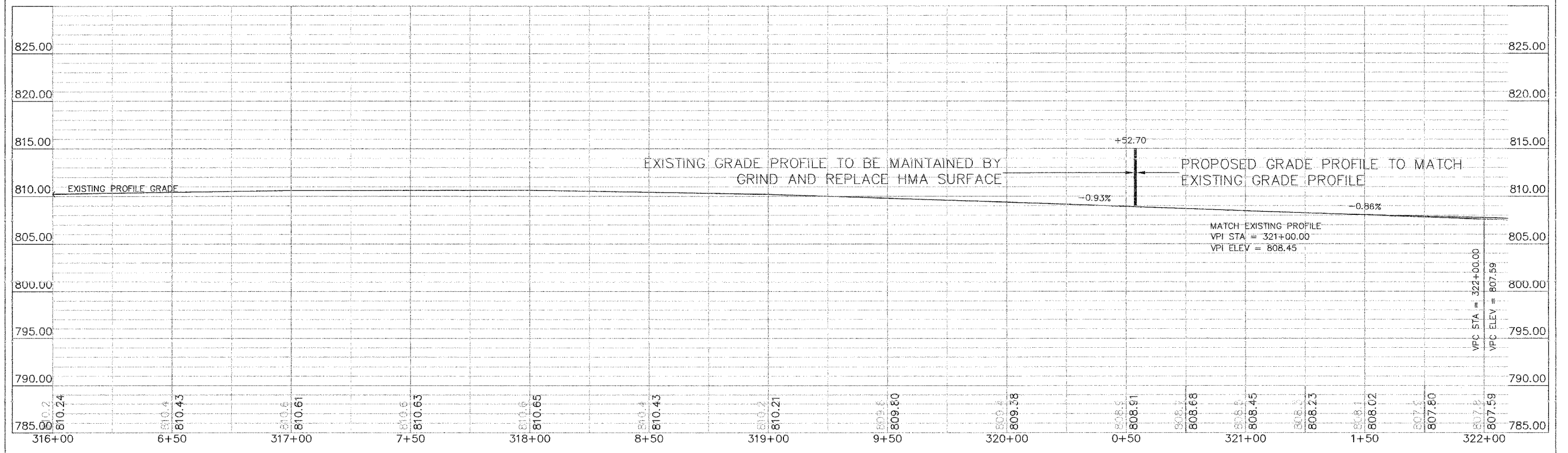


SCALES:
1" = 20' HOR
1" = 5' VER

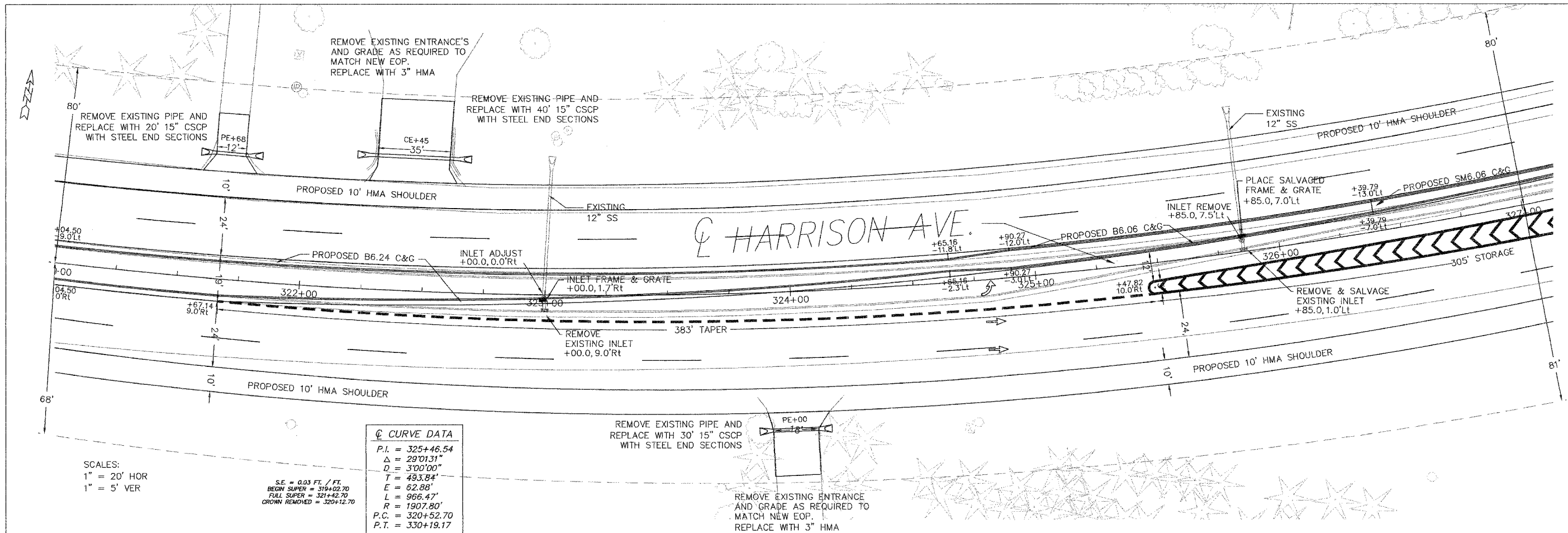
☺ CURVE DATA

P.I.	= 325+46.54
Δ	= 29°01'31"
D	= 3°00'00"
T	= 493.84'
E	= 62.88'
L	= 966.47'
R	= 1907.80'
P.C.	= 320+52.70
P.T.	= 330+19.17

S.E. = 0.03 FT. / FT.
BEGIN SUPER = 318+02.70
FULL SUPER = 321+42.70
CROWN REMOVED = 320+12.70



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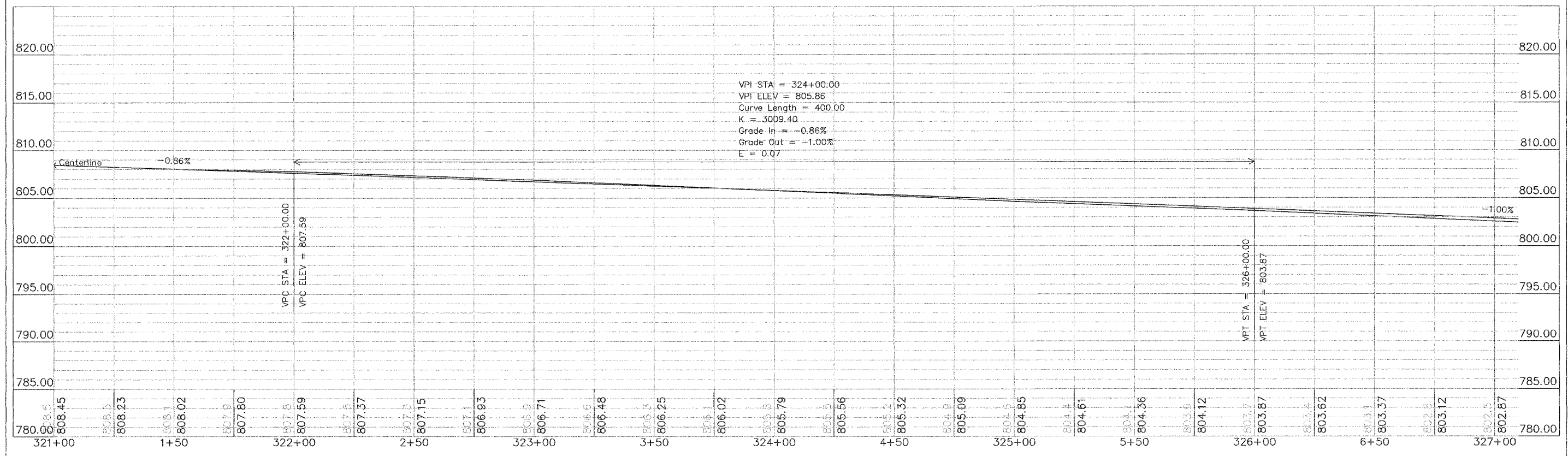
Q CURVE DATA

P.I.	= 325+46.54
Δ	= 29°01'31"
D	= 3'00"00"
T	= 493.84'
E	= 62.88'
L	= 966.47'
R	= 1907.80'
P.C.	= 320+52.70
P.T.	= 330+19.17

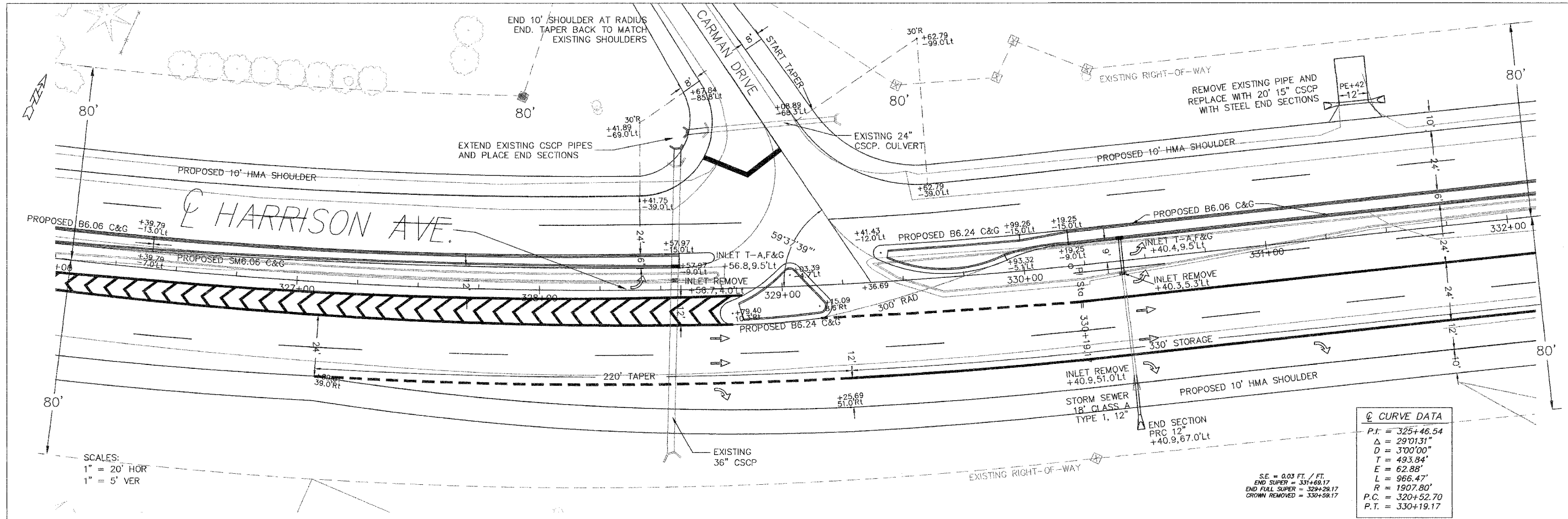
SCALES:
1" = 20' HOR
1" = 5' VER

S.E. = 0.03 FT. / FT.
BEGIN SUPER = 319+22.70
FULL SUPER = 321+42.70
CROWN REMOVED = 320+12.70

VPI STA = 324+00.00
VPI ELEV = 805.86
Curve Length = 400.00
K = 3009.40
Grade In = -0.86%
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E = 0.07



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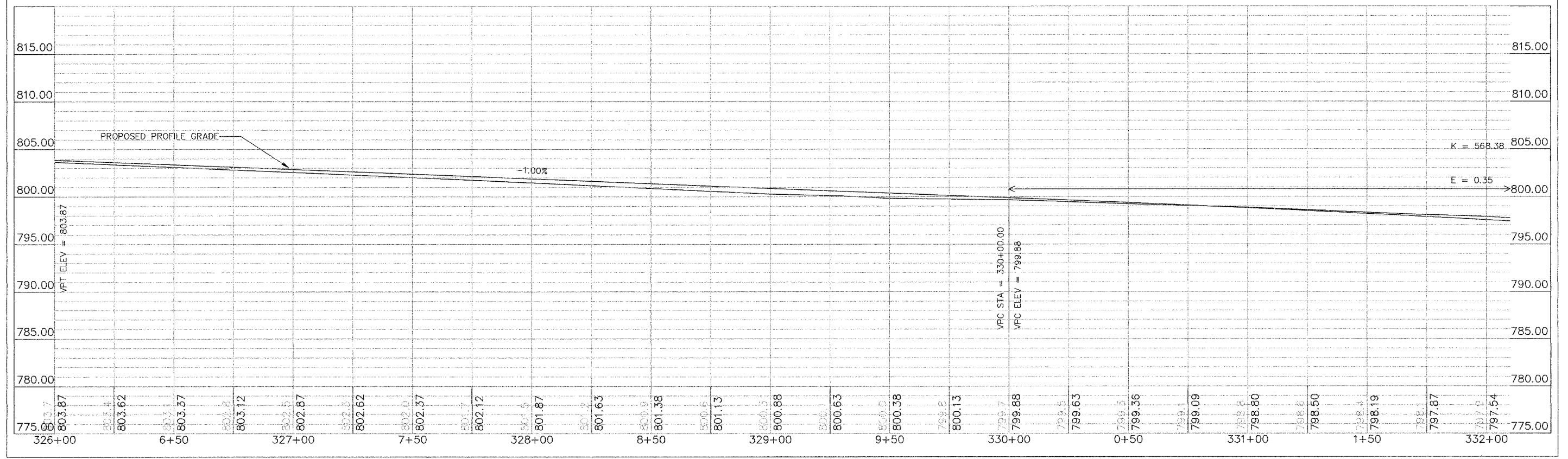


SCALES:
1" = 20' HOR
1" = 5' VER

☉ CURVE DATA

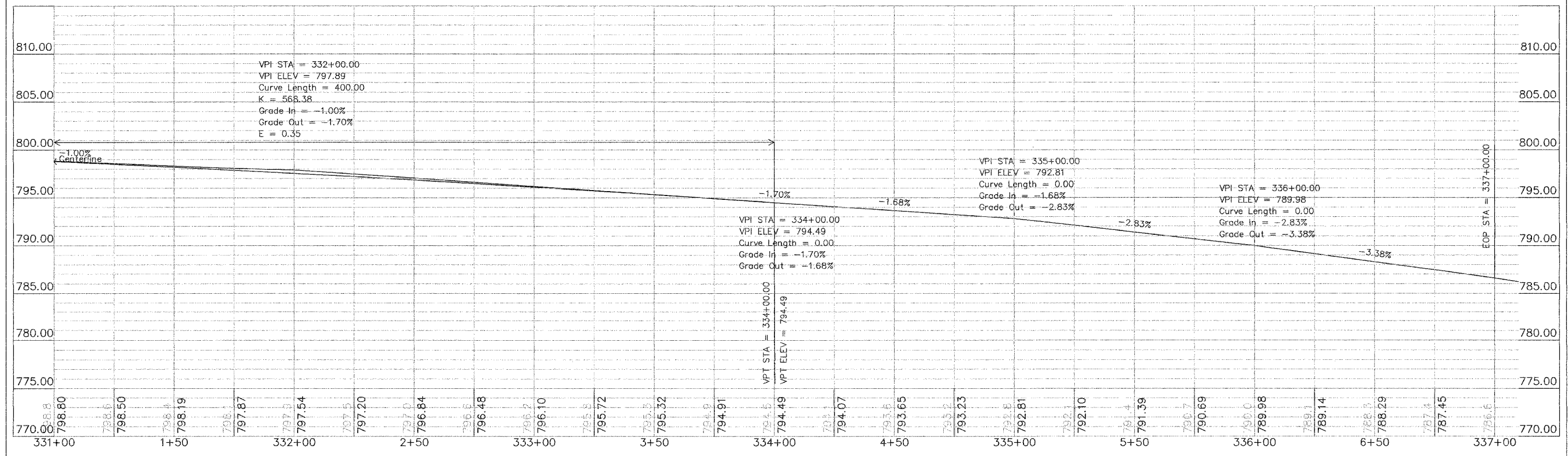
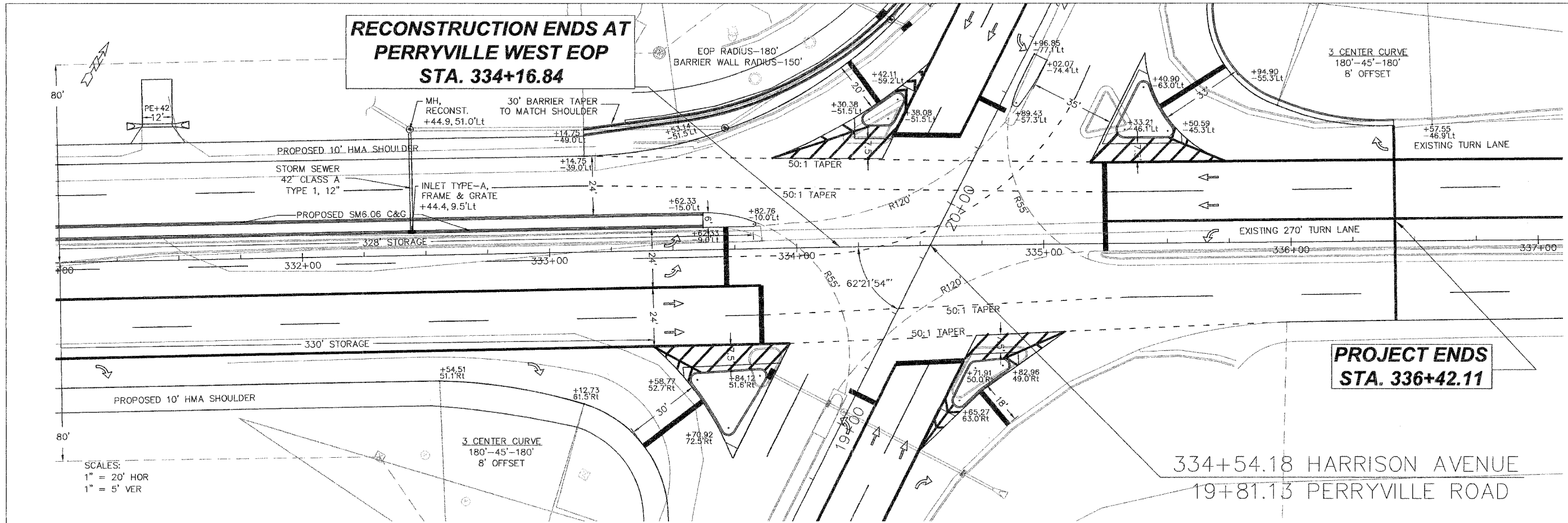
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E = 62.88'
L = 966.47'
R = 1907.80'
P.C. = 320+52.70
P.T. = 330+19.17

S.E. = 0.03 FT. / FT.
END SUPER = 331+69.17
END FULL SUPER = 329+29.17
CROWN REMOVED = 330+59.17



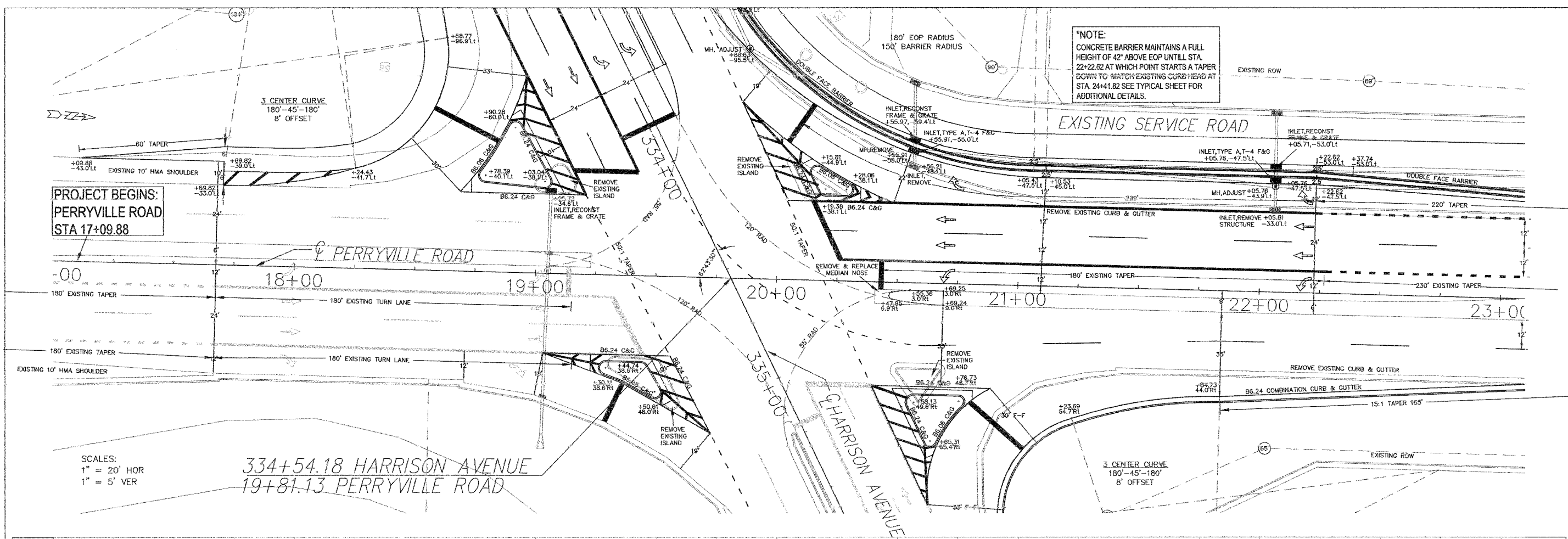
HARRISON AVENUE PLAN & PROFILE

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HARRISON AVENUE PLAN & PROFILE

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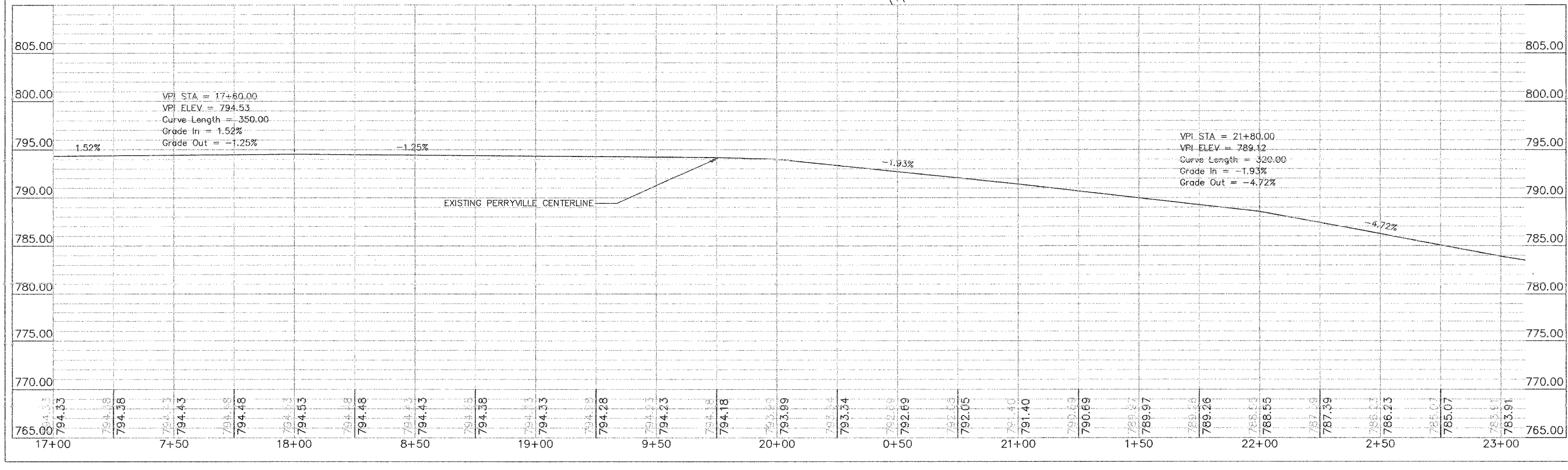


**PROJECT BEGINS:
 PERRYVILLE ROAD
 STA 17+09.88**

***NOTE:**
 CONCRETE BARRIER MAINTAINS A FULL
 HEIGHT OF 42" ABOVE EOP UNTILL STA.
 22+22.82 AT WHICH POINT STARTS A TAPER
 DOWN TO MATCH EXISTING CURB HEAD AT
 STA. 24+41.82 SEE TYPICAL SHEET FOR
 ADDITIONAL DETAILS.

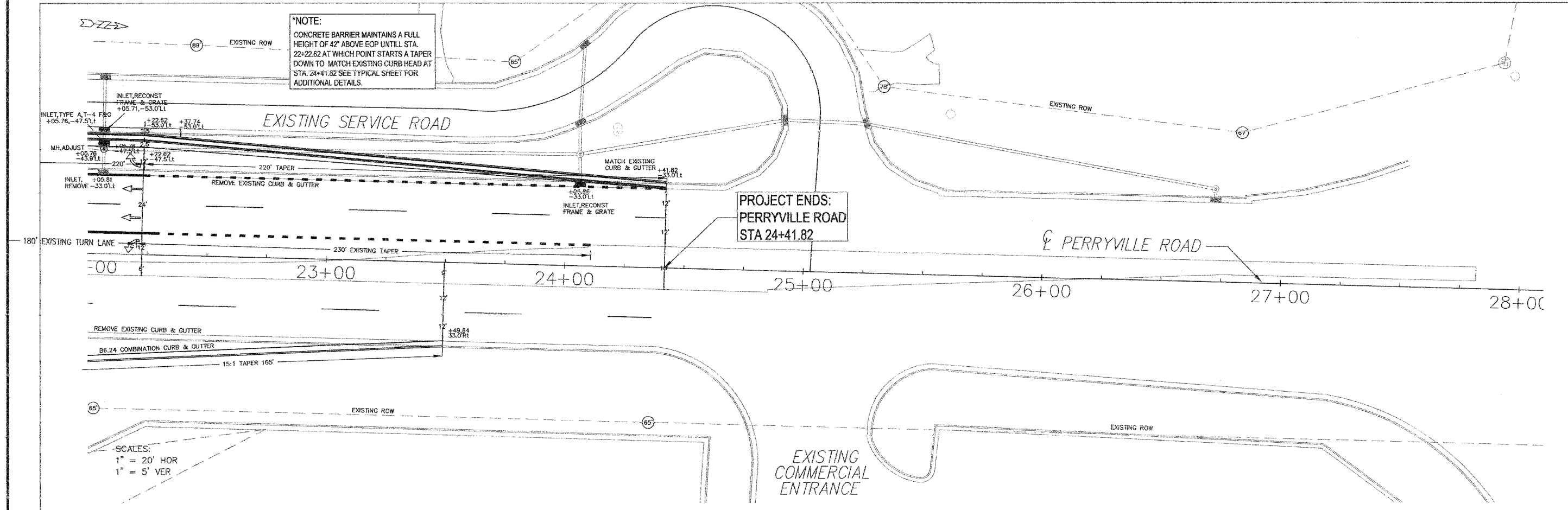
SCALES:
 1" = 20' HOR
 1" = 5' VER

334+54.18 HARRISON AVENUE
 19+81.13 PERRYVILLE ROAD

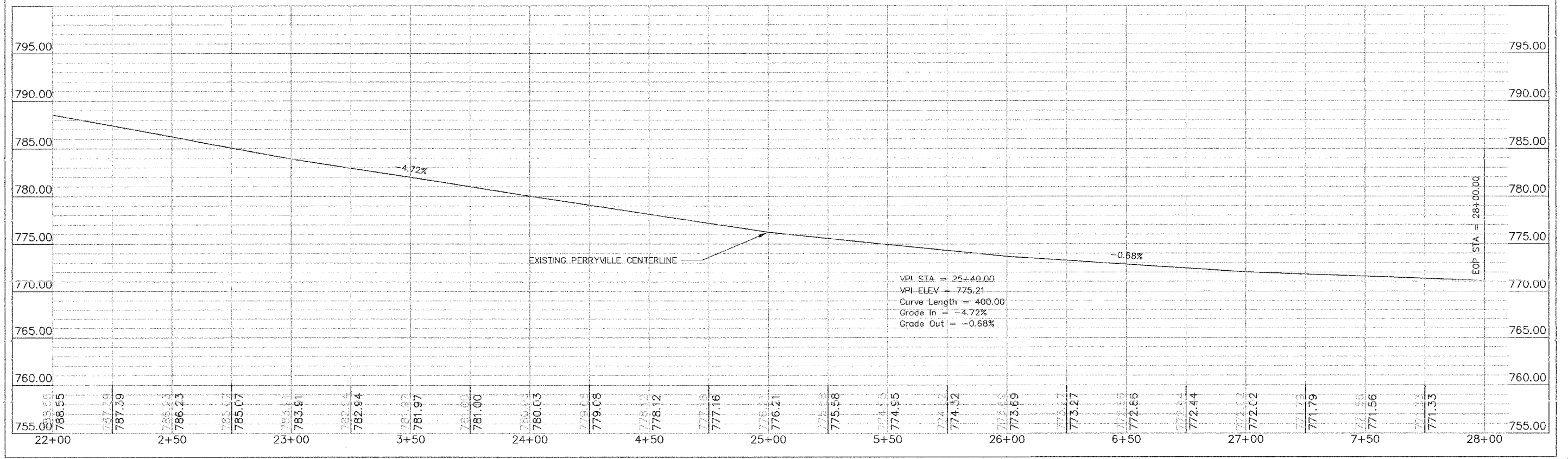


PERRYVILLE ROAD PLAN & PROFILE SHEET

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 WGD, A. Limberg

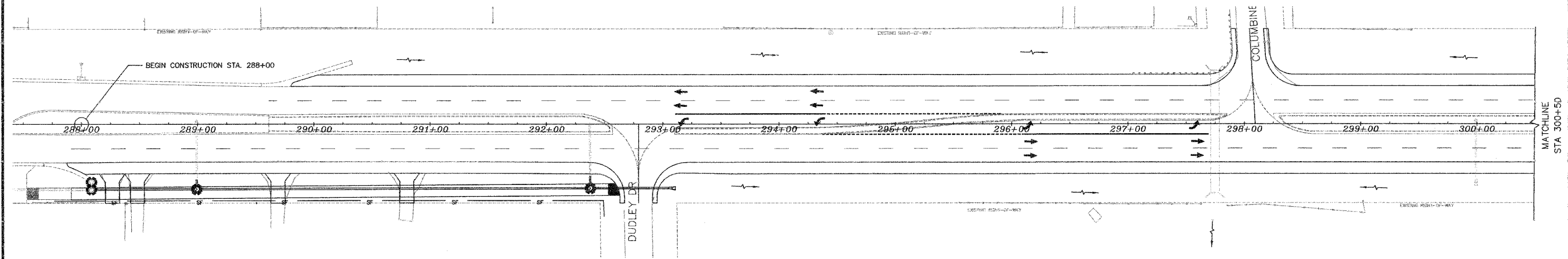


SCALES:
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1" = 5' VER

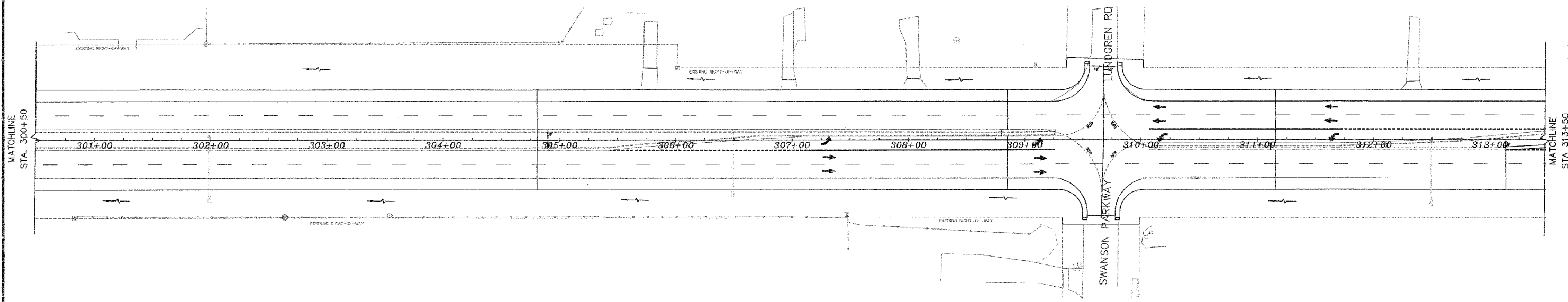


PERRYVILLE ROAD PLAN & PROFILE SHEET

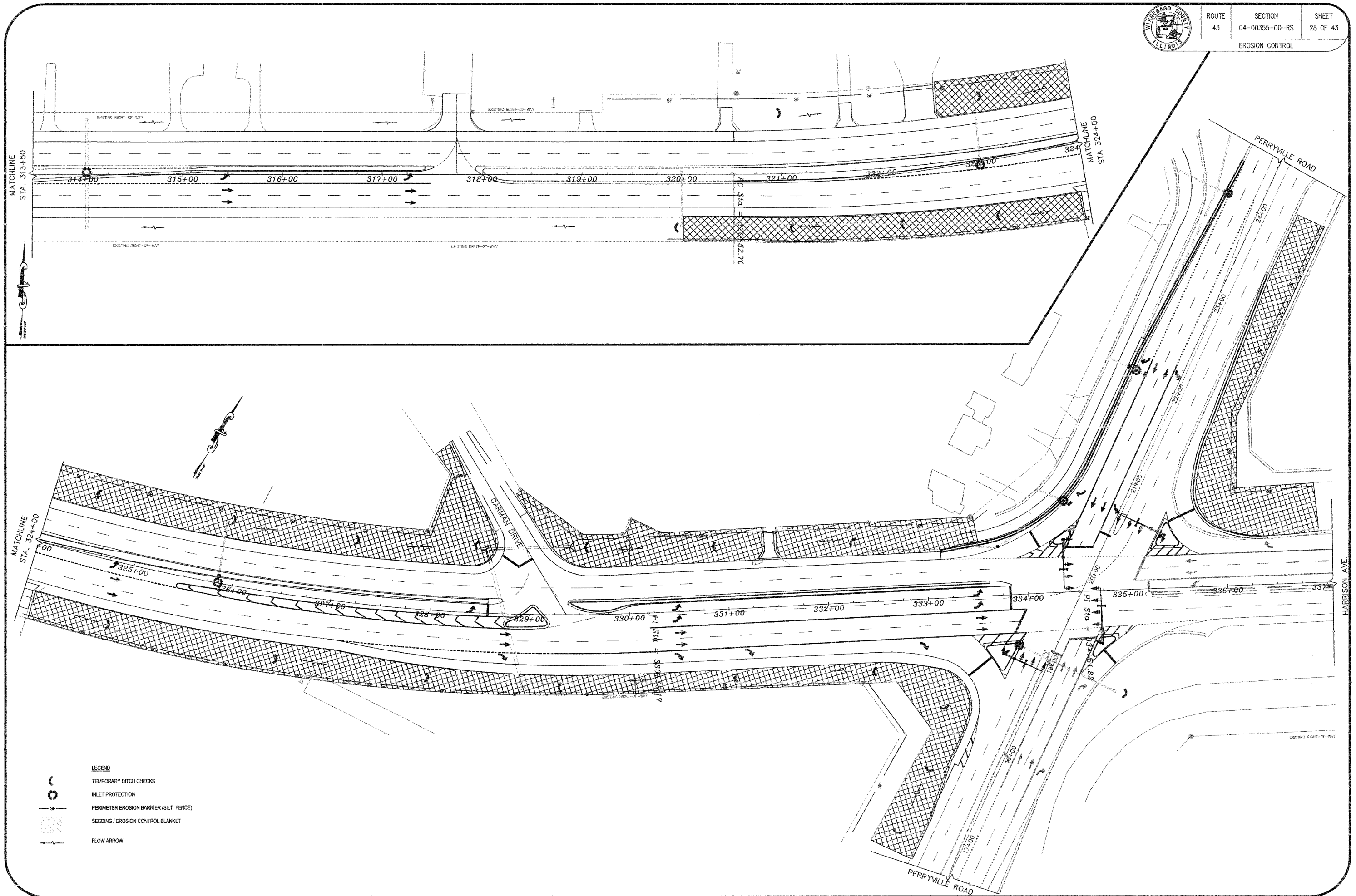
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- LEGEND**
- TEMPORARY DITCH CHECKS
 - INLET PROTECTION
 - PERIMETER EROSION BARRIER (SILT FENCE)
 - SEEDING / EROSION CONTROL BLANKET
 - FLOW ARROW

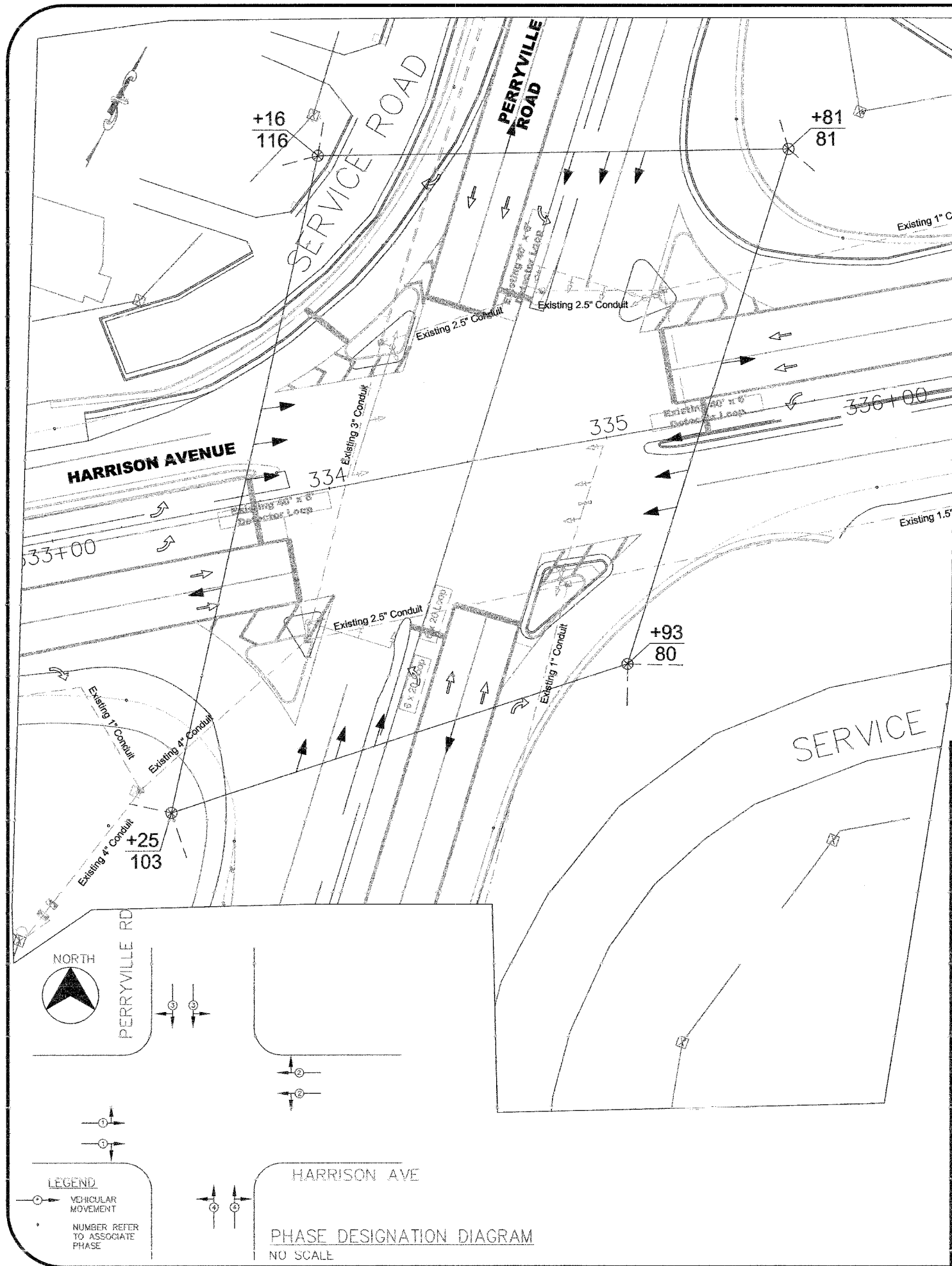


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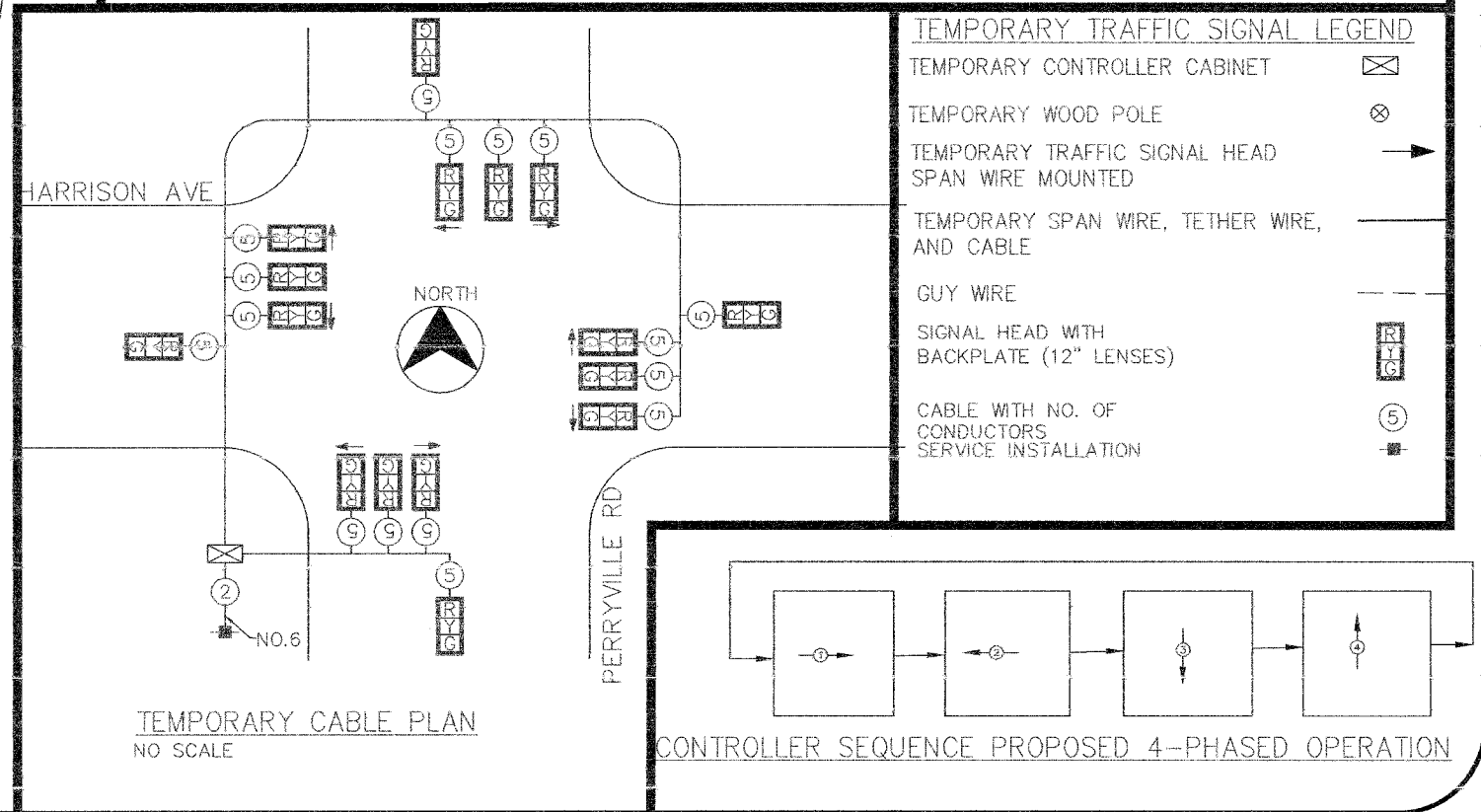
- LEGEND**
- TEMPORARY DITCH CHECKS
 - INLET PROTECTION
 - PERIMETER EROSION BARRIER (SILT FENCE)
 - SEEDING / EROSION CONTROL BLANKET
 - FLOW ARROW

F:\willco\projects\harrison Avenue\27428\INDY\harrison.dwg, 4/9/2008 9:59:40 AM, L1, WCH, A, Linteng



NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. THE CONTRACTOR WILL SUPPLY AND INSTALL ALL TEMPORARY TRAFFIC SIGNAL EQUIPMENT. ALL LABOR AND MATERIAL REQUIRED TO COMPLY WITH THESE REQUIREMENTS SHALL BE CONSIDERED INCIDENTAL TO THE BID PRICE OF TEMPORARY TRAFFIC SIGNAL INSTALLATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COORDINATION OF THE ELECTRICAL SERVICE TO THE TEMPORARY SIGNALS WITH COMED AND WILL PROVIDE THE ELECTRICAL CABLE NECESSARY TO FEED THE CONTROLLER.
2. ALL CONTROLLERS USED FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL MEET OR EXCEED THE REQUIREMENTS OF SECTION 857 OF THE "STANDARD SPECIFICATIONS FOR THE ROAD AND BRIDGE CONSTRUCTION" WITH REGARDS TO INTERNAL TIME BASE COORDINATION AND PREEMPTION. THIS TEMPORARY CONTROLLER SHALL BE A FULLY ACTUATED NEMA MICROPROCESSOR WITH INDIVIDUAL PHASE LENGTH SETTING UP TO 99 SECONDS. THE CONTROLLER SHALL BE PROGRAMMED AS DIRECTED BY THE CITY OF ROCKFORD. THE TEMPORARY TRAFFIC CONTROLLER SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS.
3. ALL TRAFFIC SIGNAL SECTIONS SHALL BE 12 INCHES. EACH TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE THE HEADS TO ANY POSITION ON THE SPAN WIRE. THE TEMPORARY TRAFFIC SIGNALS AND POLES SHALL BE RELOCATED AS REQUIRED TO THE APPROPRIATE LOCATIONS PER THE CONTRACTOR'S STAGED CONSTRUCTION PLAN.
4. THE INSTALLATION OF THE POLES SHALL CONFORM WITH SECTION 830 OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR THE ROAD AND BRIDGE CONSTRUCTION".
5. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT TO BE REMOVED WILL REMAIN THE PROPERTY OF THE WINNEBAGO COUNTY HIGHWAY DEPARTMENT.
6. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE.



E:\winnebago\projects\harrison_avenue\13-32\13-32\13-32\traffic_signals.dwg, 4-9-2008 9:00:05 AM, 11, WDR, A List.dwg



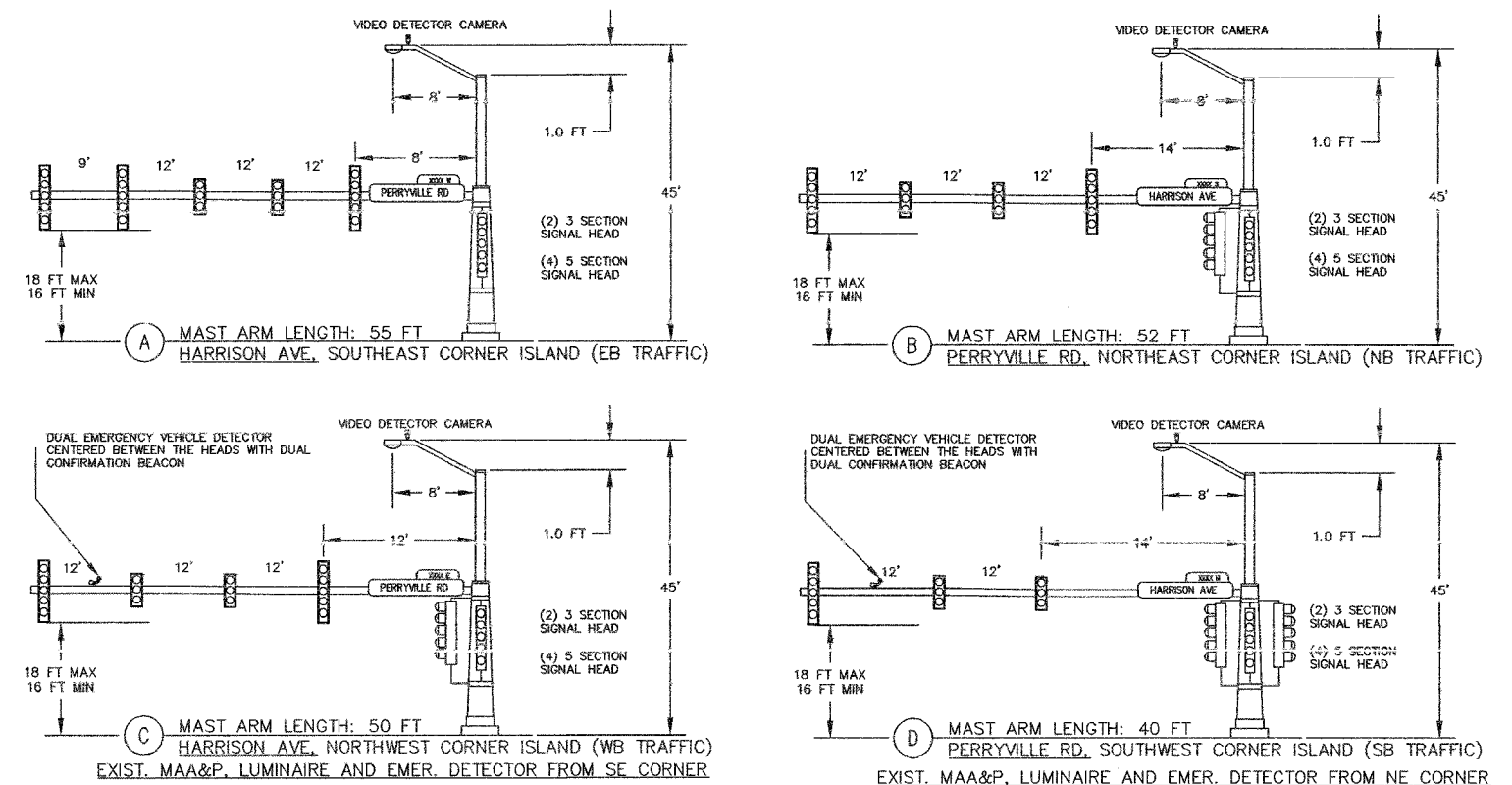
Item No	Item	Unit	QTY
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	44.00
81021340	CONDUIT PUSHED, 2 1/2" DIA., PVC	FOOT	39.00
81021370	CONDUIT PUSHED, 4" DIA., PVC	FOOT	210.00
81400100	HANDHOLE	EACH	3.00
81400200	HEAVY-DUTY HANDHOLE	EACH	1.00
81702110	ELECTRIC CABLE IN CONDUIT, 600V(XLP-TYPE USE) 1/C NO. 10	FOOT	2,624.00
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	44.00
82103400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 400 WATT	EACH	2.00
86200200	UNINTERRUPTABLE POWER SUPPLY	EACH	1.00
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2,656.00
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	5,440.00
87500600	TRAFFIC SIGNAL POST, 10 FT.	EACH	1.00
87702985	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1.00
87703000	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT.	EACH	1.00
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	3.00
87800415	CONCRETE FOUNDATION, TYPE E, 36-INCH DIAMETER	FOOT	58.00
87900200	DRILL EXISTING HANDHOLE	EACH	3.00
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8.00
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1.00
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	8.00
88040290	SIGNAL HEAD, POLYCARBONATE, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2.00
88040360	SIGNAL HEAD, POLYCARBONATE, LED, 3-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1.00
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	16.00
89000200	TEMPORARY TRAFFIC SIGNAL INSTALLATION	L SUM	1.00
89501300	RELOCATE EXISTING MAST ARM ASSEMBLY AND POLE	EACH	2.00
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	2.00
89502200	MODIFY EXISTING CONTROLLER	EACH	1.00
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	L SUM	1.00
89502380	REMOVE EXISTING HANDHOLE	EACH	2.00
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	4.00
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	4.00
X0320837	EMERGENCY VEHICLE PRIORITY SYSTEM DUAL DETECTOR UNIT	EACH	2.00
X0324134	BATTERY BACKUP SYSTEM WITH CABINET	EACH	1.00
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	717.00
XX001909	ELECTRIC CABLE IN CONDUIT NO. 20 3/C	FOOT	1,148.00
XX003583	VIDEO ELECTRIC CABLE IN CONDUIT, NO. 16 3/C	FOOT	1,312.00
XX003584	VIDEO BELDEN 8281 COAXIAL CABLE IN CONDUIT	FOOT	1,312.00
XX003962	VIDEO VEHICLE DETECTION SYSTEM	L SUM	1.00

GENERAL NOTES

- CALL J.U.L.L.E. AT LEAST 48 HRS PRIOR TO CONSTRUCTION (800) 892-0123
- ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION
- ALL SIGNING, STRIPING, TRAFFIC SIGNALS AND TRAFFIC CONTROL DEVICES DURING CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) CURRENT EDITION.
- ALL NEW CONSTRUCTION SHALL CONFORM TO THE STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION. ALL TRAFFIC SIGNAL EQUIPMENT IS TO BE SPUN ALUMINUM OR GALVANIZED FINISH EXCEPT FOR SIGNAL HEADS.
- ALL LENSES SHALL BE 12".
- EAGLE BRAND EQUIPMENT MUST BE USED FOR COMPATIBILITY WITH EXISTING COUNTY EQUIPMENT.
- MAST ARM SHALL BE DESIGNED TO ACCOMMODATE 18"X 72" STREET NAME SIGN. ALL TRAFFIC SIGNAL MOUNTED SIGNS TO BE INSTALLED BY THE CONTRACTOR.
- CONTRACTOR SHOULD CHECK THE CRITICAL DIMENSIONS OF THE NEW TYPE E FOUNDATIONS, SUCH AS ANCHOR BOLT SIZE AND BOLT CIRCLE WITH THE REUSED COMBINATION MAST ARM ASSEMBLIES BEFORE THE CONSTRUCTION OF THE NEW TYPE E FOUNDATIONS.
- SALVAGE EXISTING STREET NAME SIGNS FROM EXISTING MAST ARMS AND REUSE ON NEW MAST ARMS, COST INCIDENTAL TO RELOCATE EXIST MAA&POLE.

MAST ARM EQUIPMENT MOUNTING DETAIL

NO SCALE

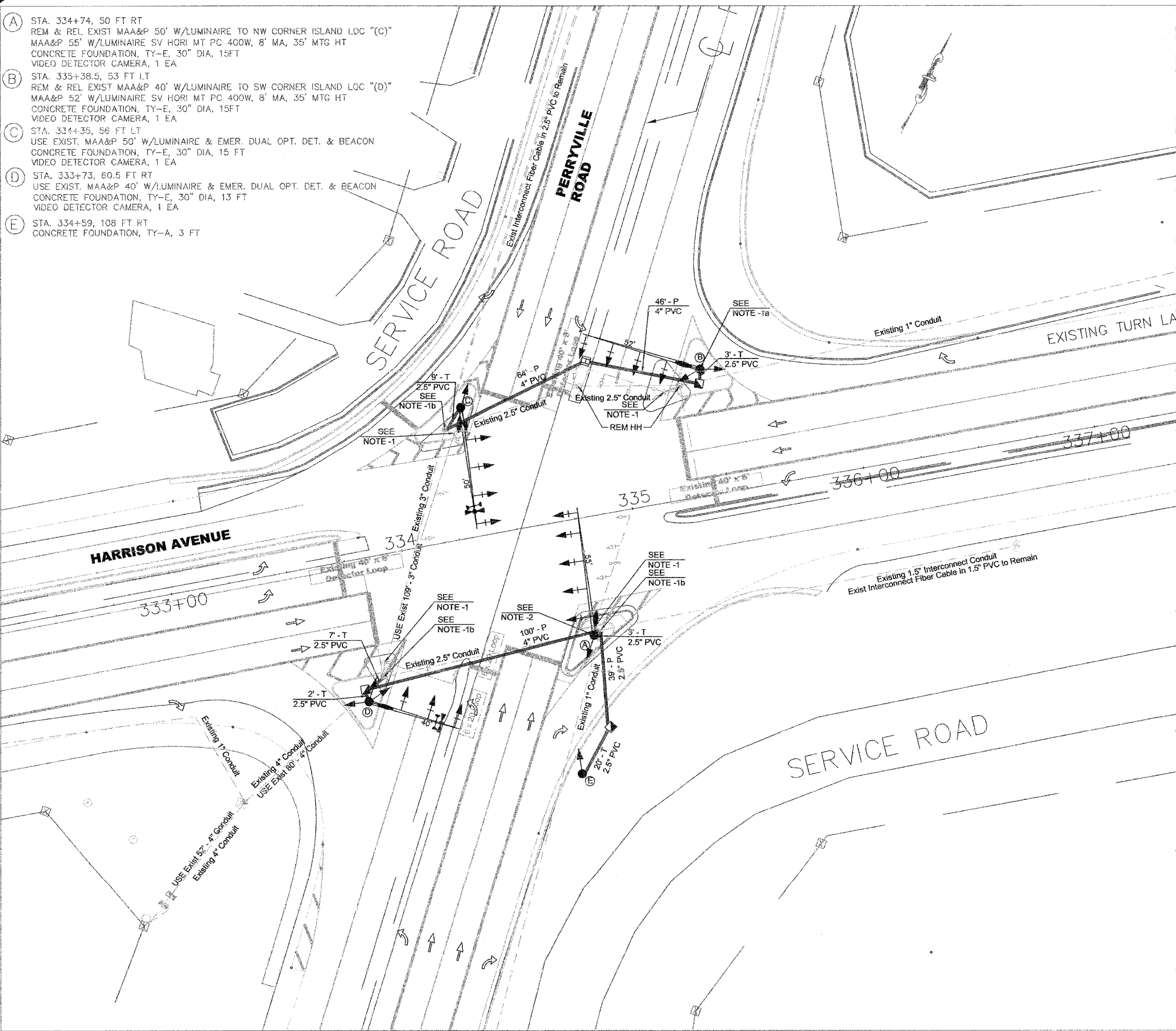


STANDARDS

209-814001-01	HANDHOLES
209-857001	STD PHASE DESIGNATION DIAGRAMS & PHASE SEQUENCES
209-862001	UNINTERRUPTIBLE POWER SUPPLY (UPS)
209-873001-01	TRAFFIC SIGNAL GROUNDING & BONDING
209-877011-03	STEEL COMB MAST ARM ASSEMBLY & POLE
209-878001-06	CONCRETE FOUNDATION DETAILS
209-880006	TRAFFIC SIGNAL MOUNTING DETAILS



- (A) STA. 334+74, 50 FT RT
REM & REL EXIST MAA&P 50' W/LUMINAIRE TO NW CORNER ISLAND LOC "(C)"
MAA&P 55' W/LUMINAIRE SV HORI MT PC 400W, 8' MA, 35' MTG HT
CONCRETE FOUNDATION, TY-E, 30" DIA, 15FT
VIDEO DETECTOR CAMERA, 1 EA
- (B) STA. 335+38.5, 53 FT LT
REM & REL EXIST MAA&P 40' W/LUMINAIRE TO SW CORNER ISLAND LOC "(D)"
MAA&P 52' W/LUMINAIRE SV HORI MT PC 400W, 8' MA, 35' MTG HT
CONCRETE FOUNDATION, TY-E, 30" DIA, 15FT
VIDEO DETECTOR CAMERA, 1 EA
- (C) STA. 334+35, 56 FT LT
USE EXIST. MAA&P 50' W/LUMINAIRE & EMER. DUAL OPT. DET. & BEACON
CONCRETE FOUNDATION, TY-E, 30" DIA, 15 FT
VIDEO DETECTOR CAMERA, 1 EA
- (D) STA. 333+73, 60.5 FT RT
USE EXIST. MAA&P 40' W/LUMINAIRE & EMER. DUAL OPT. DET. & BEACON
CONCRETE FOUNDATION, TY-E, 30" DIA, 13 FT
VIDEO DETECTOR CAMERA, 1 EA
- (E) STA. 334+59, 108 FT RT
CONCRETE FOUNDATION, TY-A, 3 FT



- NOTES:**
- 1) CONSTRUCT NEW MAA&P 52' AND CONCRETE FOUNDATION TYPE E, 30" DIA., 15' DEEP IN ACCORDANCE TO SECTION 878 AND SECTION 877, AND STANDARD 878001 AND 877011.
 - 1a) DRILL HOLE IN EXISTING HANDHOLE FOR PROPOSED CONDUIT IN ACCORDANCE TO SECTION 879.
 - 2) CONSTRUCT NEW MAA&P 55' AND CONCRETE FOUNDATION TYPE E, 30" DIA., 15' DEEP IN ACCORDANCE TO SECTION 878 AND SECTION 877, AND STANDARD 878001 AND STANDARD 877011.
 - 3b) USE EXISTING CONTROLLER, CABINET AND FOUNDATION.
 - 4) USE EXISTING EMERGENCY VEHICLE PREEMPTION SYSTEM WITH DUAL OPTICAL DETECTOR AND DUAL CONFIRMATION BEACON.
 - 5) ABANDONED EXISTING DETECTOR LOOP & PULL CABLE FROM CONDUIT AND CAP IT.
 - 8) REMOVING ELECTRICAL CABLE FROM CONDUIT SHALL BE PAID FOR BY THE FOOT. PAY ITEM- REM ELEC CABLE FROM CONDUIT. EACH CABLE FOR EACH SIGNAL HEAD SHALL BE REMOVED FROM THE SIGNAL HEAD TO THE CONTROLLER.

	EXISTING	PROPOSED
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
PEDESTRIAN PUSHBUTTON DETECTOR		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
WOOD POLE		
CONDUIT IN TRENCH OR PUSHED		
COMMON TRENCH		
DETECTOR LOOP		
WOOD POLE		
LUMINAIRE		

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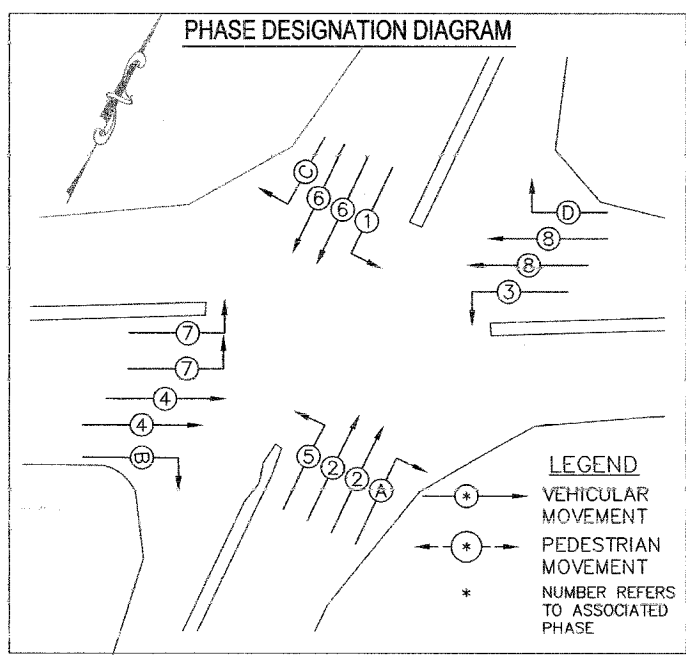
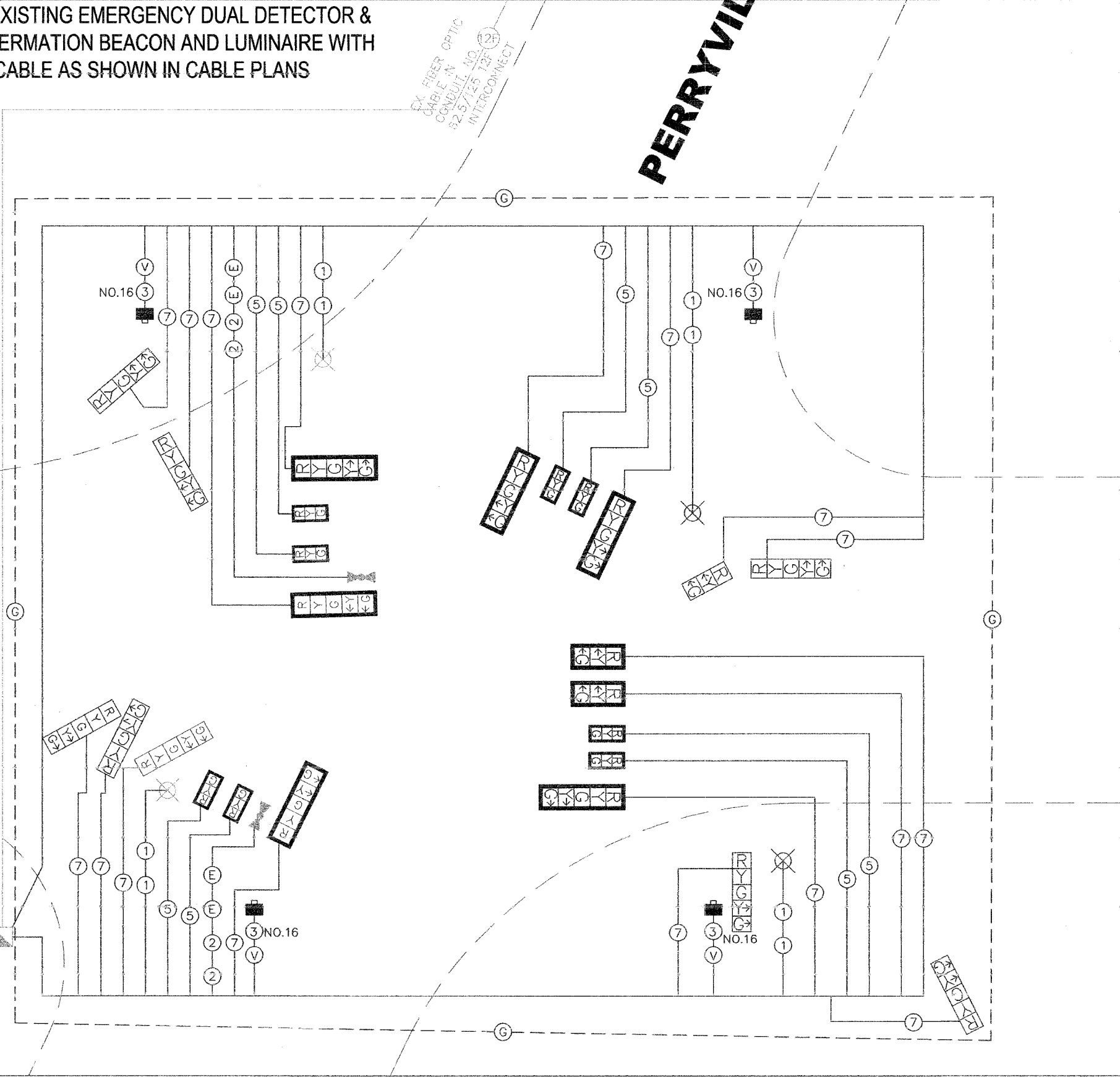
NOTE:
USE EXISTING EMERGENCY DUAL DETECTOR & CONFIRMATION BEACON AND LUMINAIRE WITH NEW CABLE AS SHOWN IN CABLE PLANS

PERRYVILLE

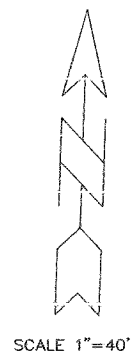
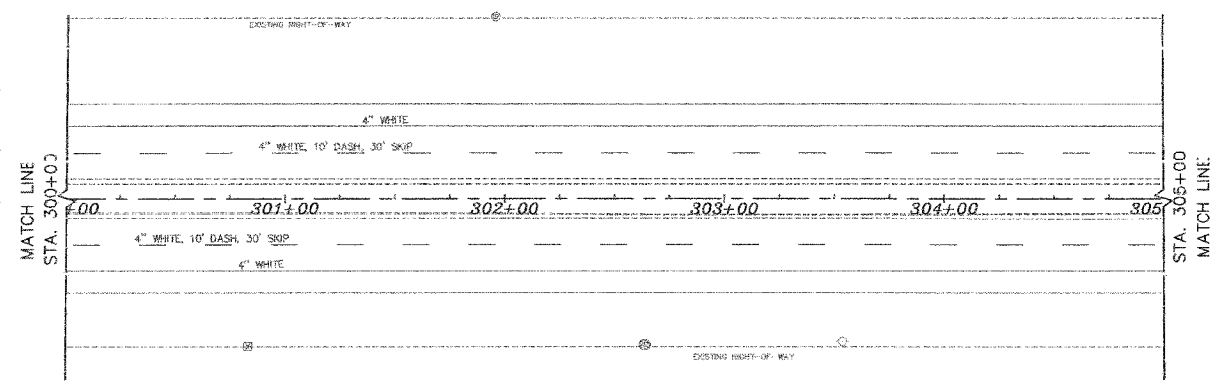
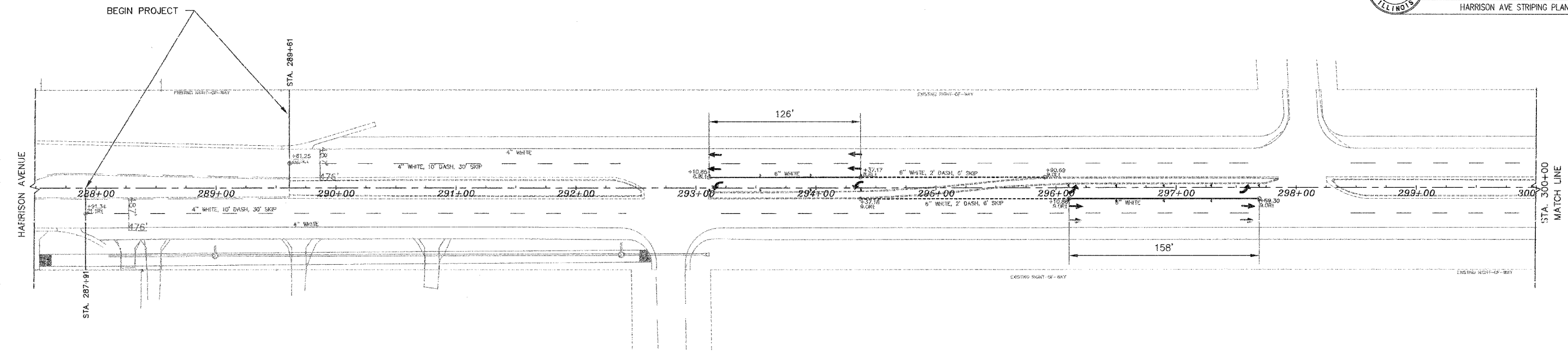
CABLE PLAN LEGEND

PROPOSED	EXISTING	
		SERVICE INSTALLATION
		VIDEO DETECTOR CAMERA
		VIDEO DETECTOR CABLE BELDON 8281 COAXIAL
		CONTROLLER CABINET
		CABLE WITH NO. OF CONDUCTORS
		SIGNAL HEAD WITH BACK PLATE (12" LENSES)
		SIGNAL HEAD WITHOUT BACK PLATE (12" LENSES)
		HIGH PRESSURE SODIUM LUMINAIRE (400 WATTS)
		EMERGENCY VEHICLE PRIORITY SYSTEM LEAD-IN CABLE (3/C NO. 20)
		EMERGENCY VEHICLE DOUBLE OPTICAL DETECTOR WITH DOUBLE CONFIRMATION BEACON
		FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, 12F
		GROUNDING CIRCUIT AS PER STD 873001. (1/C NO. 6)

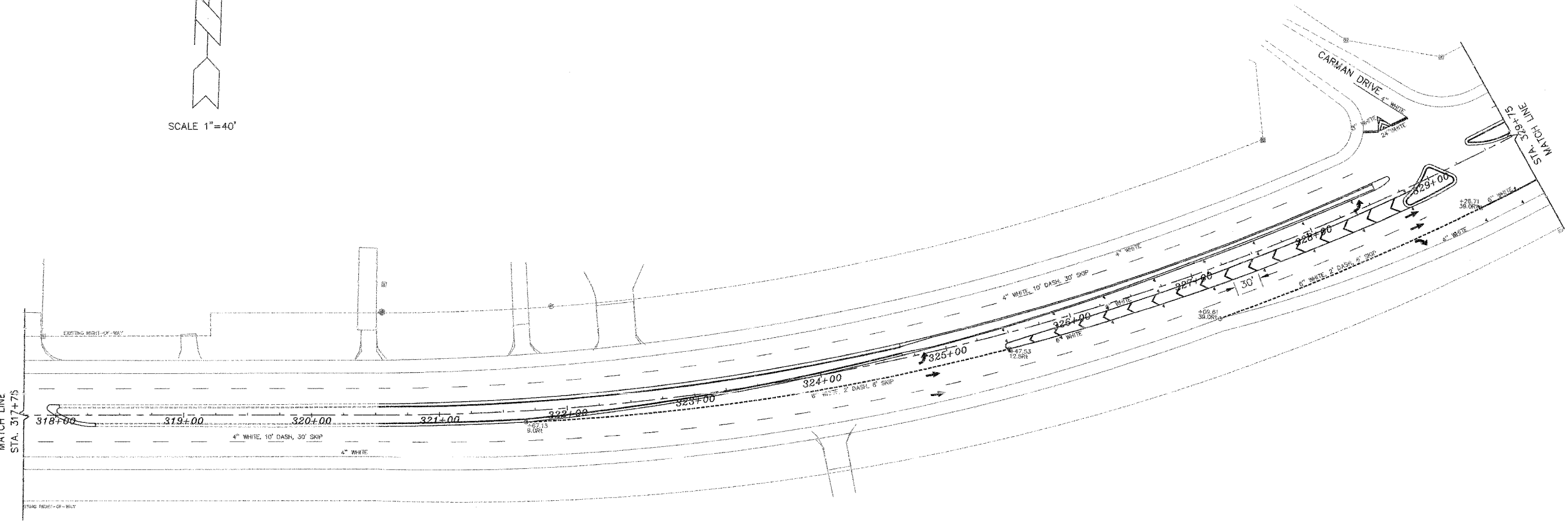
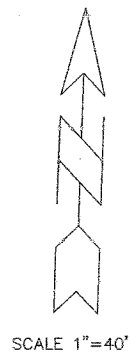
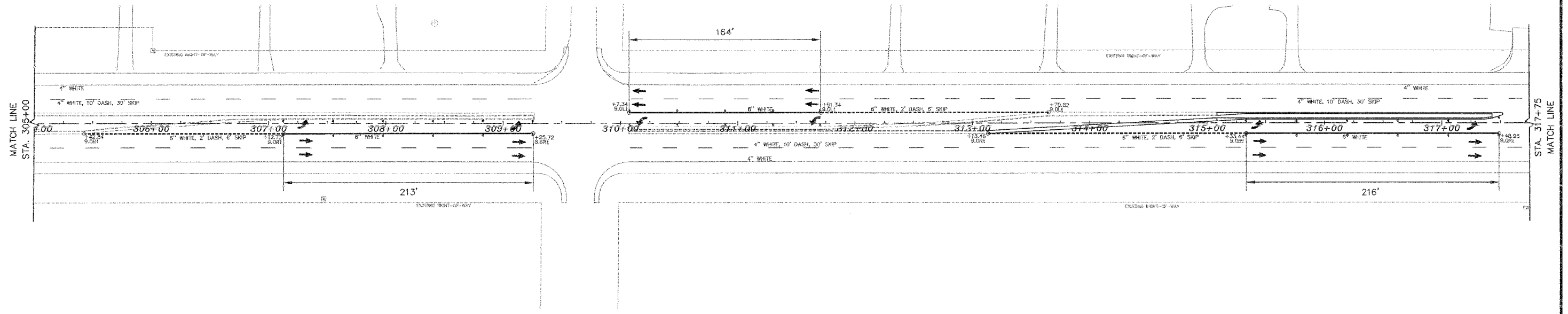
HARRISON



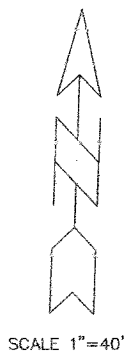
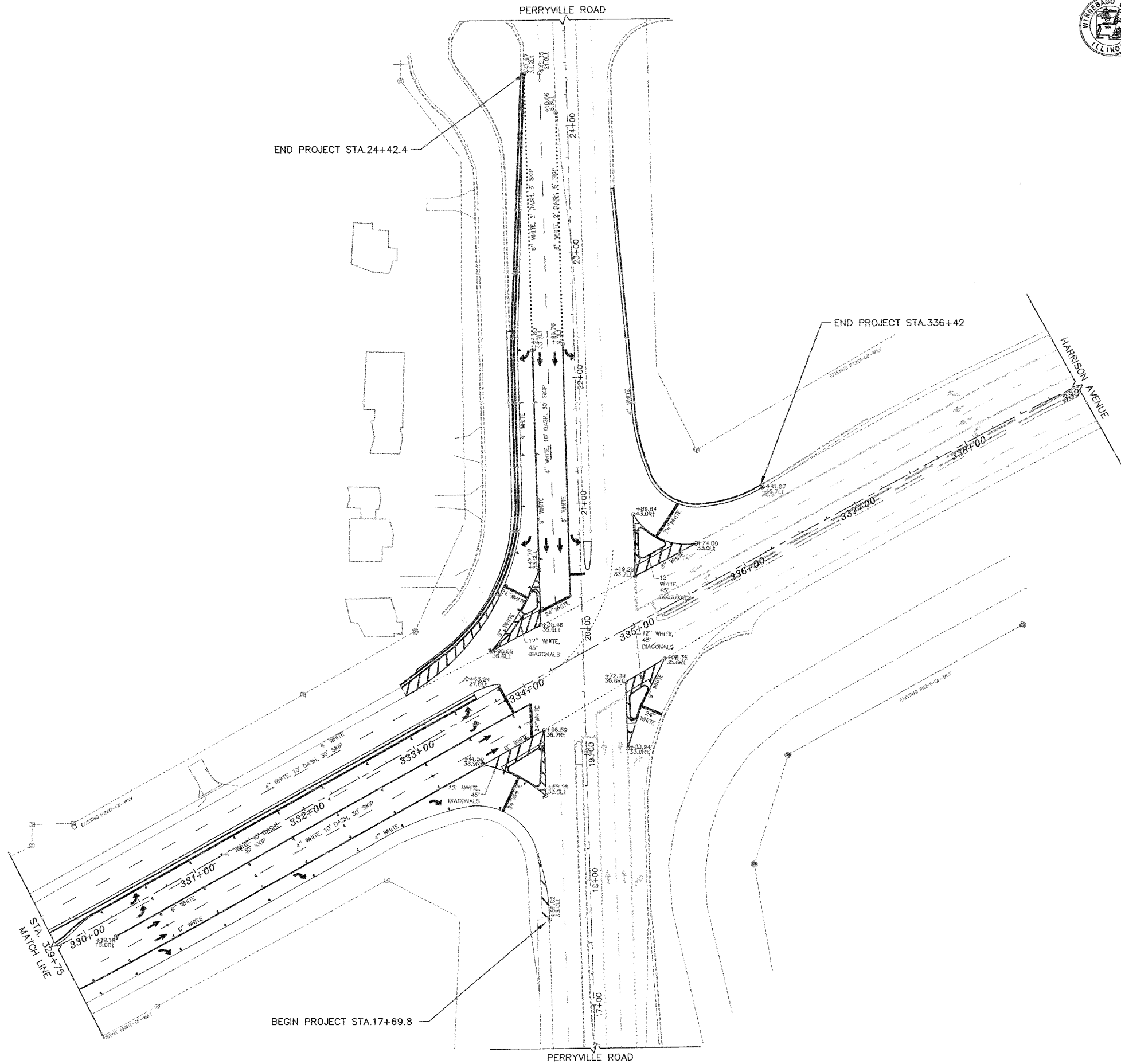
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Winnago, A. Linn, Ill.



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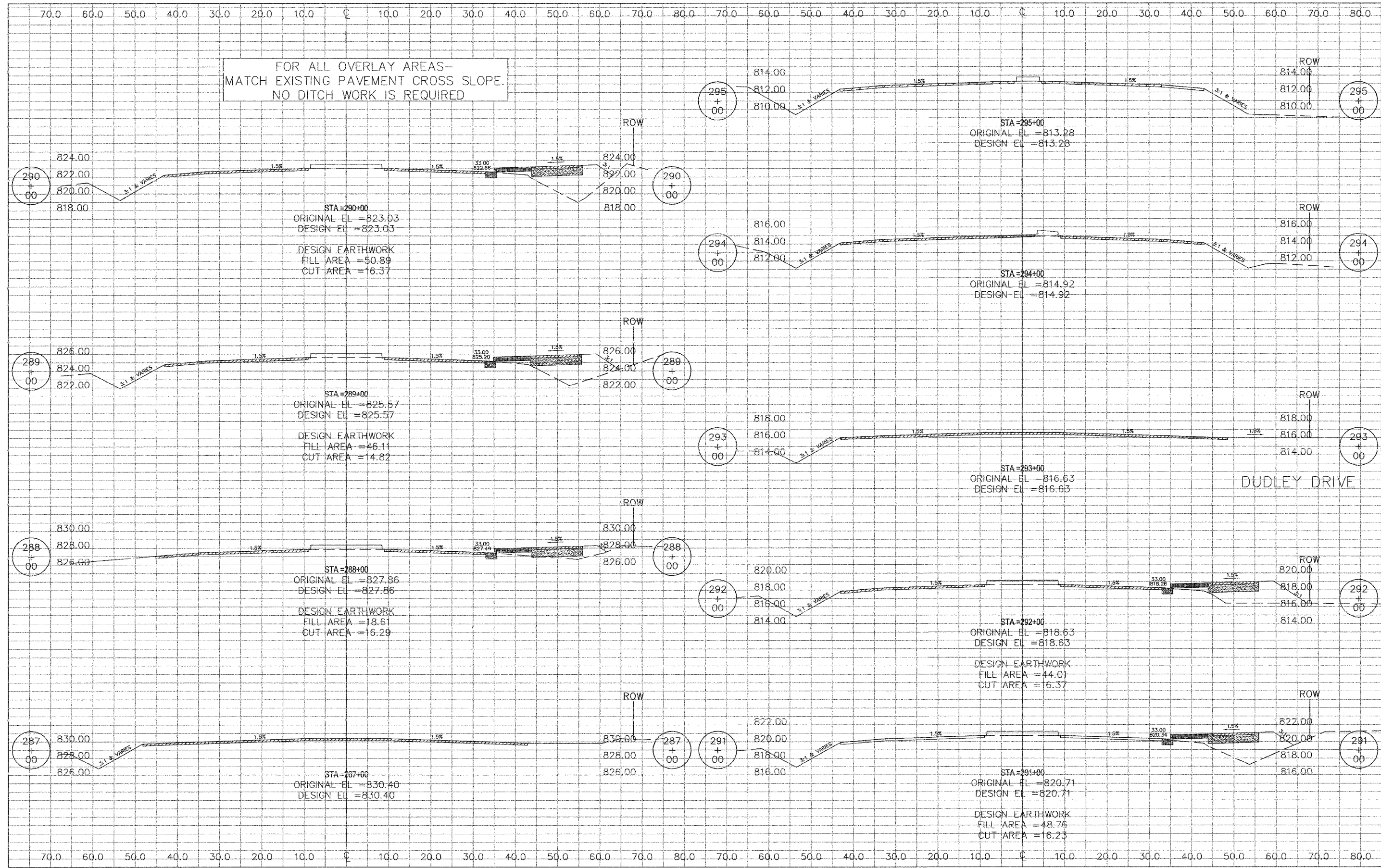
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WCHD, A. Lint

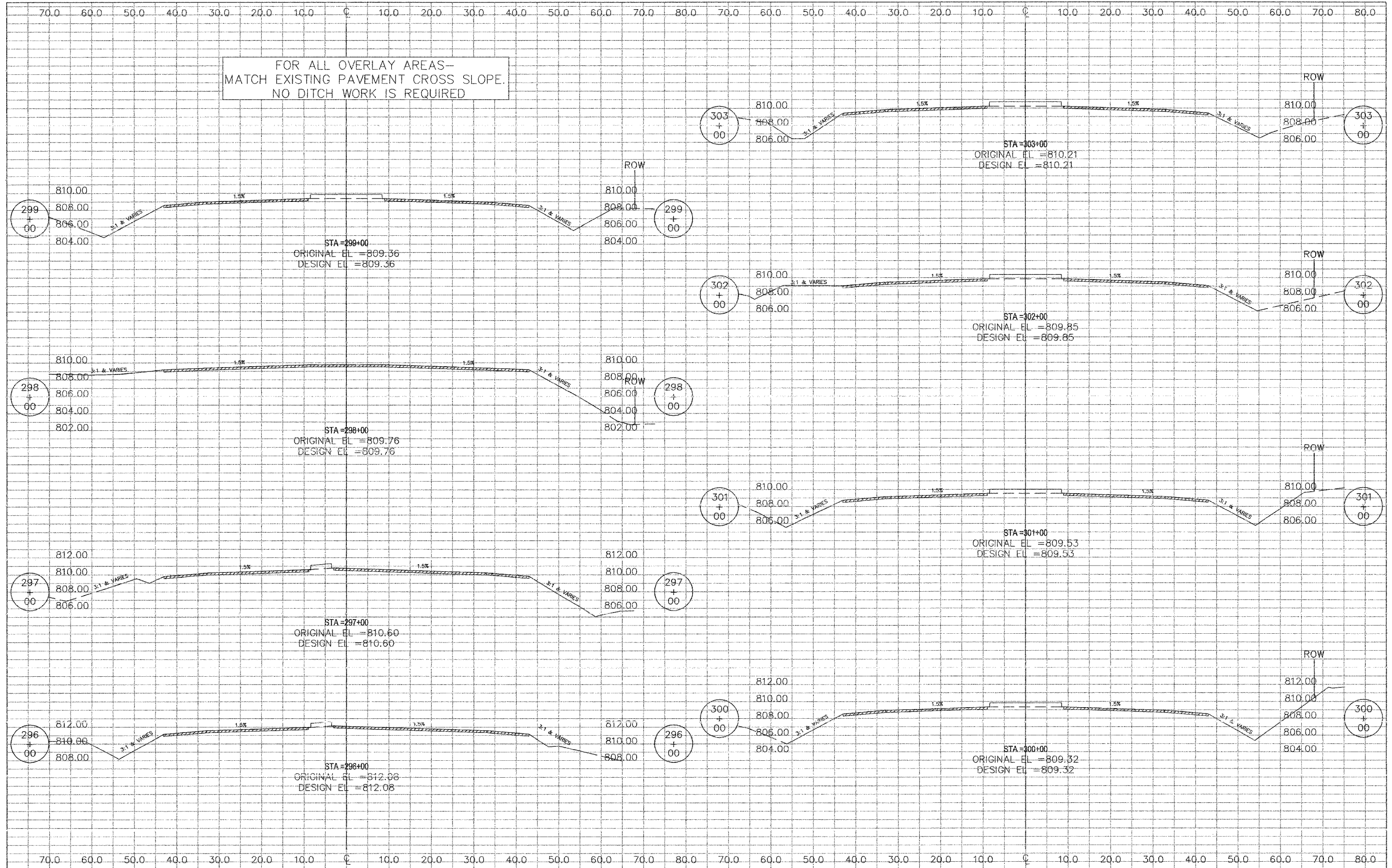


FOR ALL OVERLAY AREAS-
MATCH EXISTING PAVEMENT CROSS SLOPE.
NO DITCH WORK IS REQUIRED



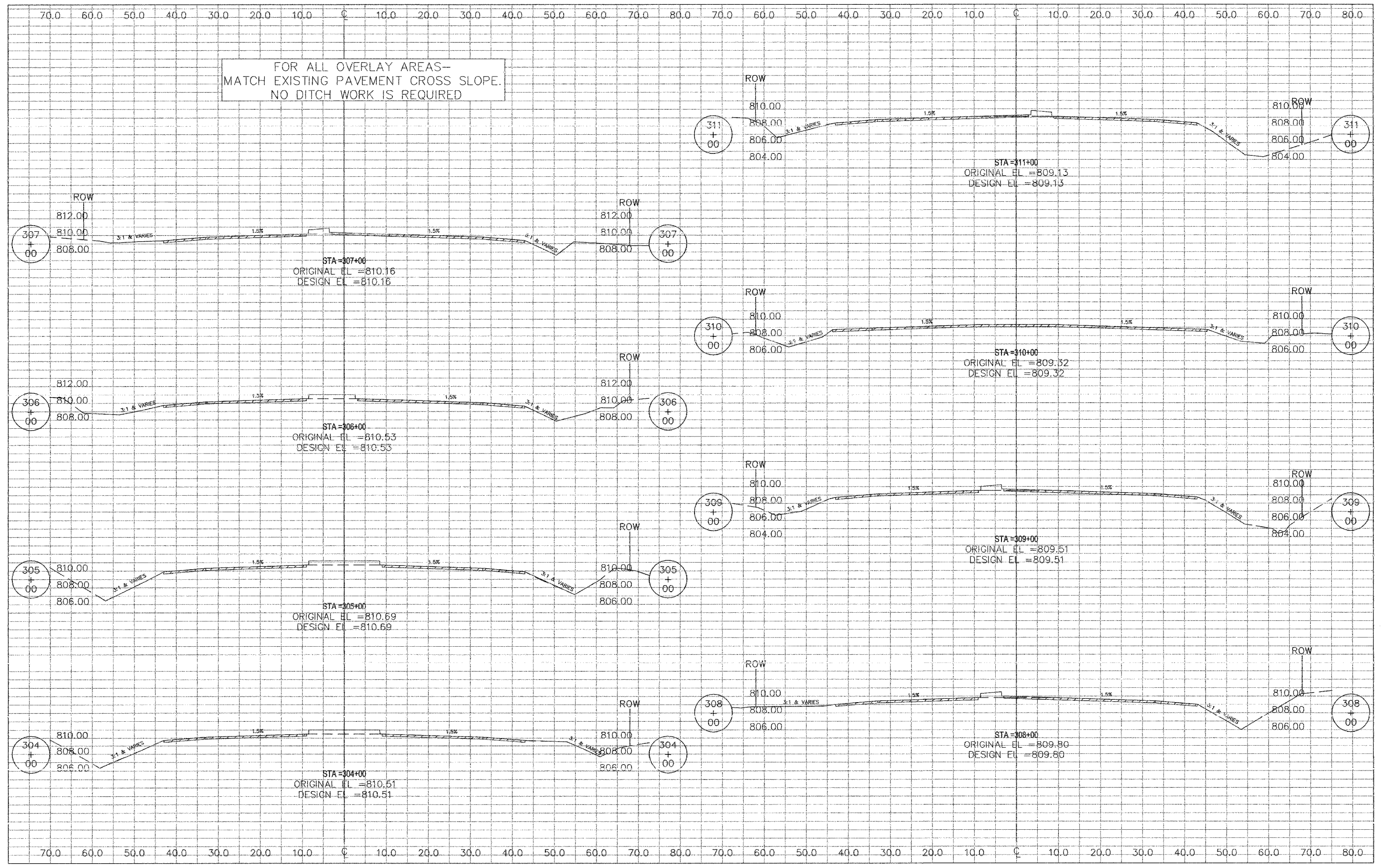
DUDLEY DRIVE

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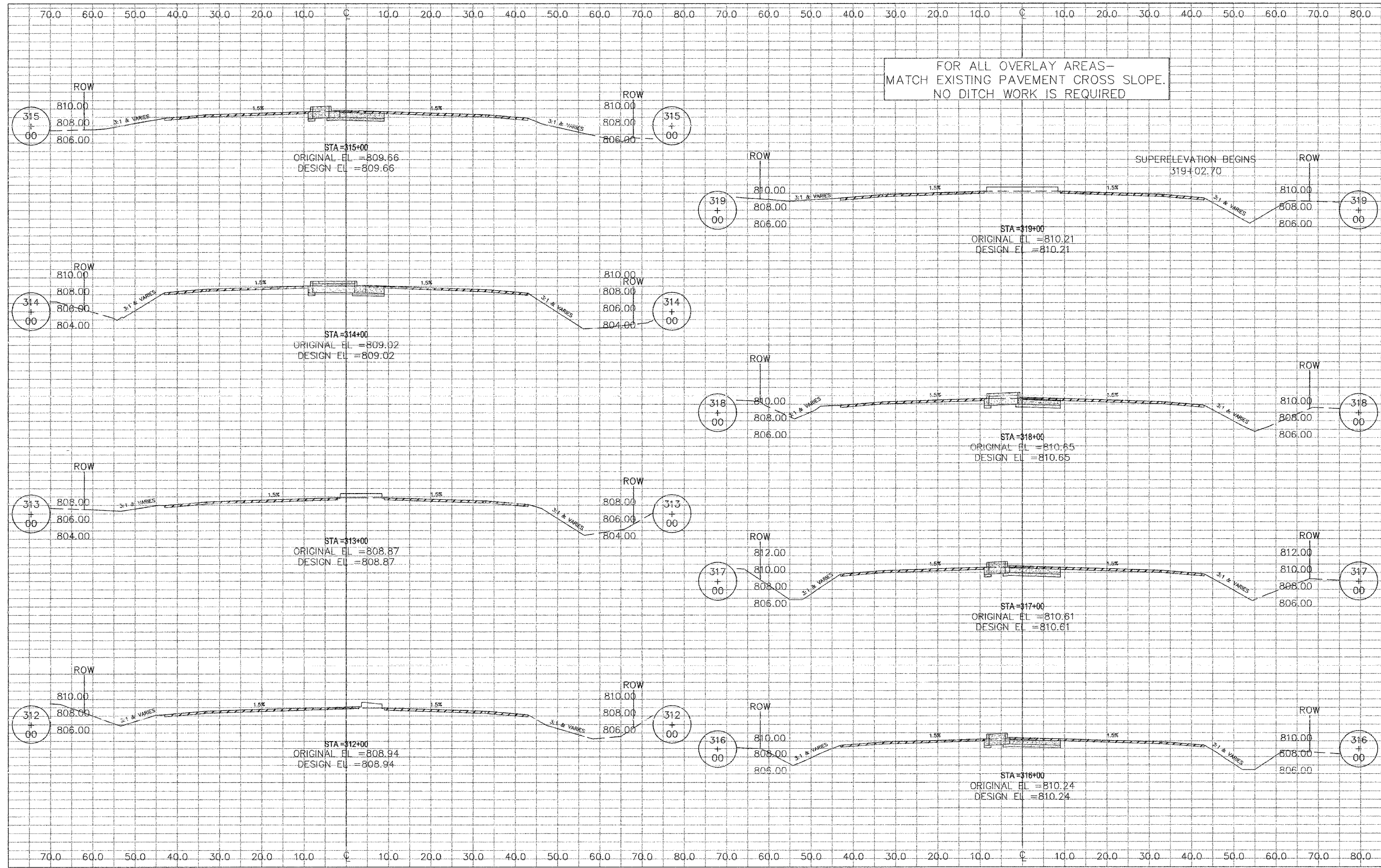




FOR ALL OVERLAY AREAS-
MATCH EXISTING PAVEMENT CROSS SLOPE.
NO DITCH WORK IS REQUIRED



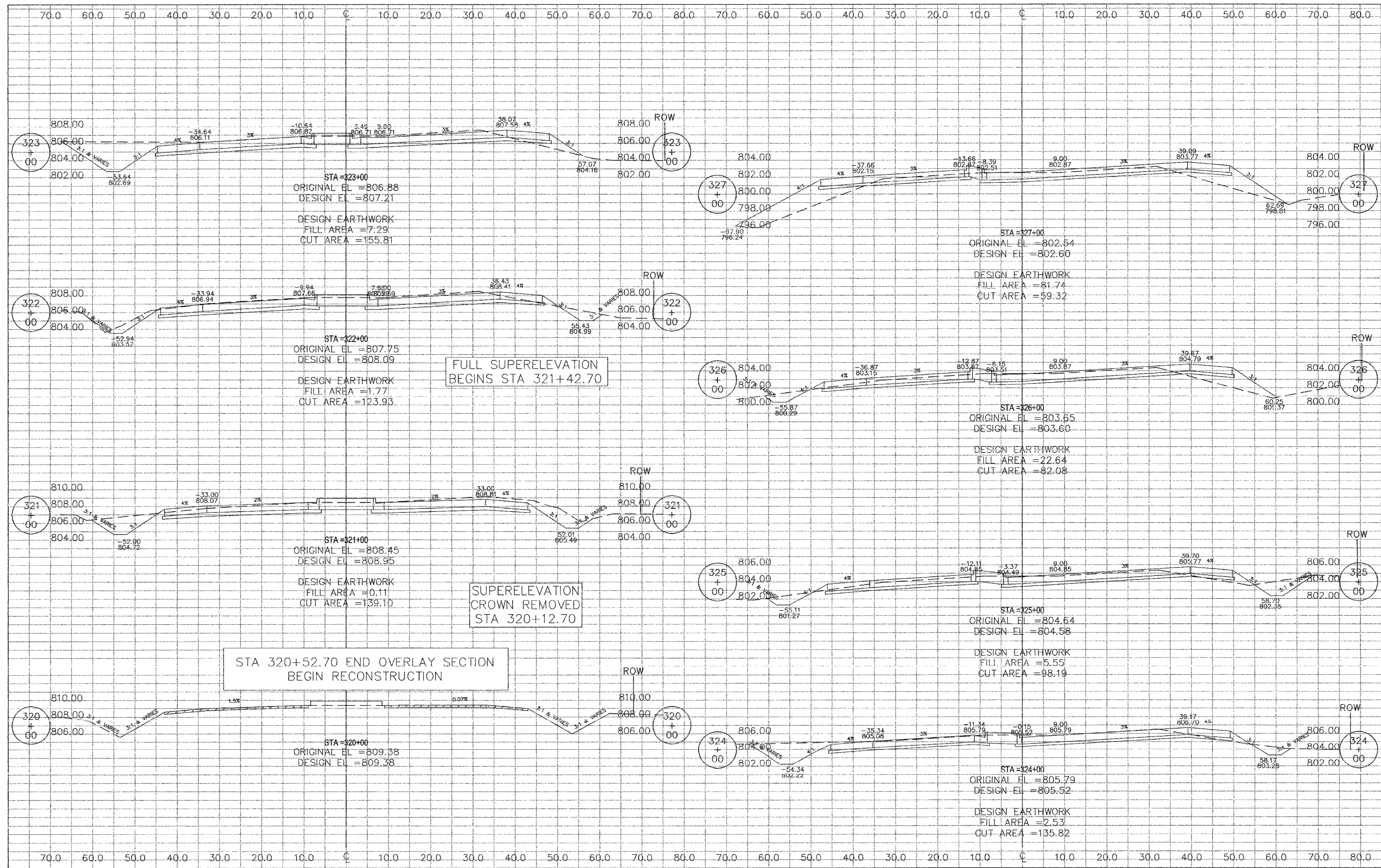
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FOR ALL OVERLAY AREAS-
MATCH EXISTING PAVEMENT CROSS SLOPE.
NO DITCH WORK IS REQUIRED

HARRISON AVENUE CROSS SECTION SHEET

P:\Projects\04-00355\Harrison Avenue\0400355.dwg, 4/9/2004, 9:20:25 AM, LL
WWD, A, Lint, 03



FULL SUPERELEVATION BEGINS STA 321+42.70

SUPERELEVATION CROWN REMOVED STA 320+12.70

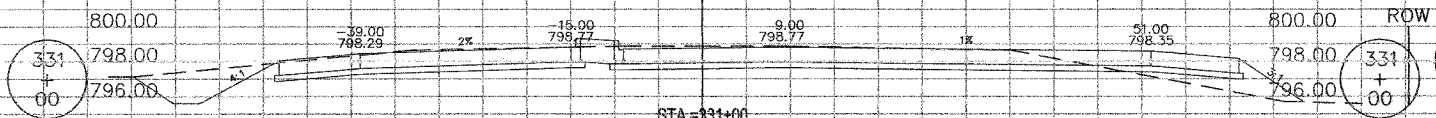
STA 320+52.70 END OVERLAY SECTION BEGIN RECONSTRUCTION

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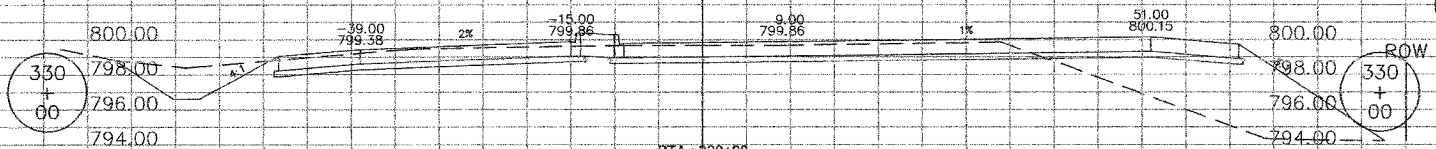
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SUPERELEVATION ENDS STA 331+69.17



STA=331+00 ORIGINAL EL =798.85 DESIGN EL =798.77 DESIGN EARTHWORK FILL AREA =12.88 CUT AREA =126.07

SUPERELEVATION CROWN REMOVED STA 330+59.17

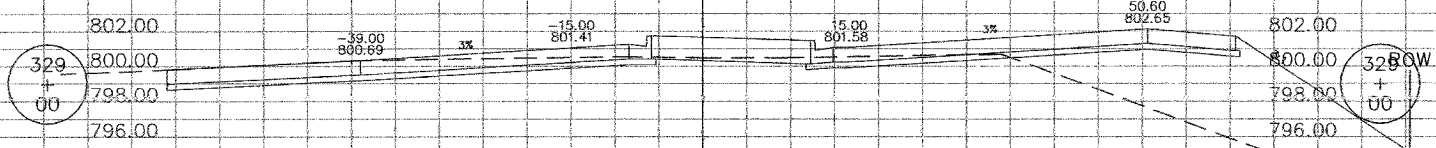


STA=330+00 ORIGINAL EL =799.66 DESIGN EL =799.86 DESIGN EARTHWORK FILL AREA =94.06 CUT AREA =105.98

STA=336+00 ORIGINAL EL =789.98 DESIGN EARTHWORK FILL AREA =178.26 CUT AREA =48.91

STA=335+00 ORIGINAL EL =792.81 DESIGN EARTHWORK FILL AREA =0.14 CUT AREA =37.26

FULL SUPERELEVATION ENDS STA 329+29.17



STA=329+00 ORIGINAL EL =800.29 DESIGN EL =801.41 DESIGN EARTHWORK FILL AREA =121.80 CUT AREA =42.33

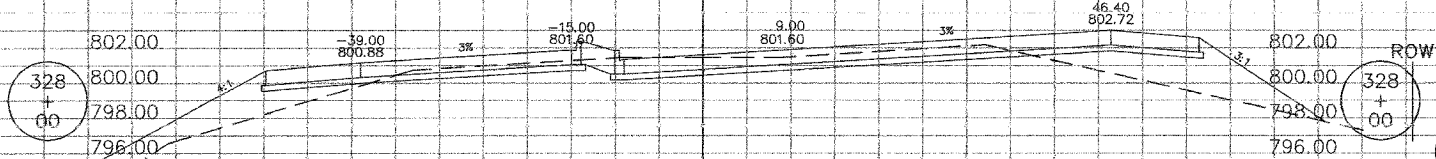
MATCH EXISTING PERRYVILLE ROAD EOP PROFILE

STA=334+00 ORIGINAL EL =794.49 DESIGN EL =794.49 DESIGN EARTHWORK FILL AREA =5.61 CUT AREA =101.97

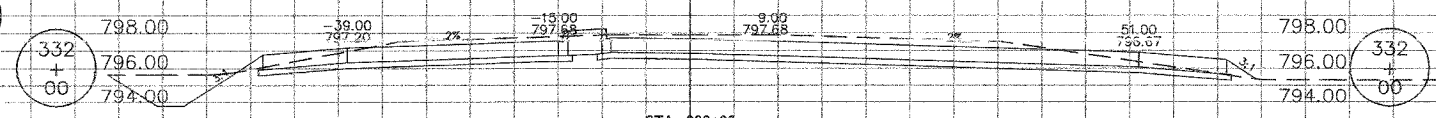
CARMAN DRIVE



STA=333+00 ORIGINAL EL =796.19 DESIGN EL =796.24 DESIGN EARTHWORK FILL AREA =1.52 CUT AREA =187.56



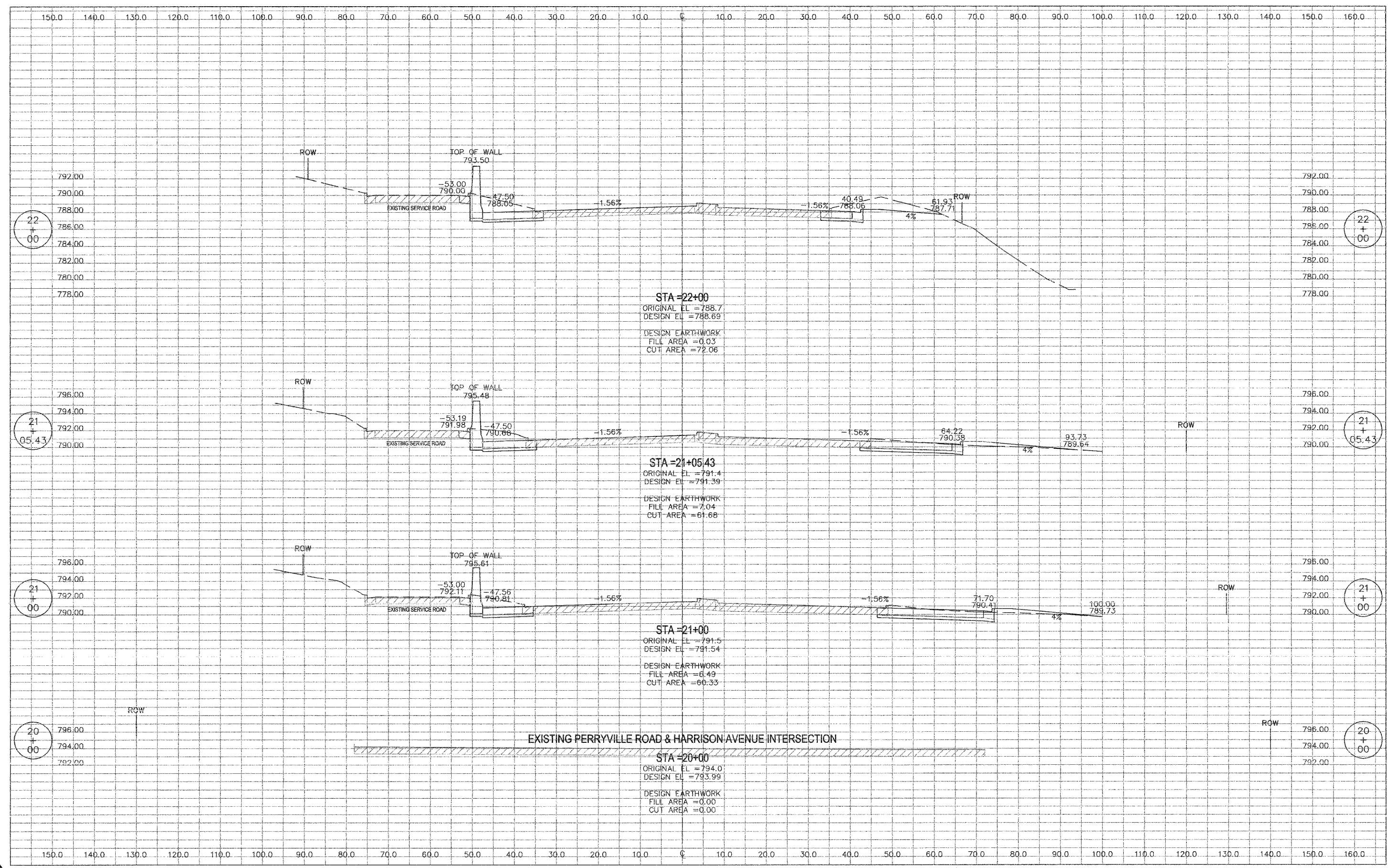
STA=328+00 ORIGINAL EL =801.46 DESIGN EL =801.60 DESIGN EARTHWORK FILL AREA =66.54 CUT AREA =56.15



STA=332+00 ORIGINAL EL =797.89 DESIGN EL =797.68 DESIGN EARTHWORK FILL AREA =1.03 CUT AREA =171.41

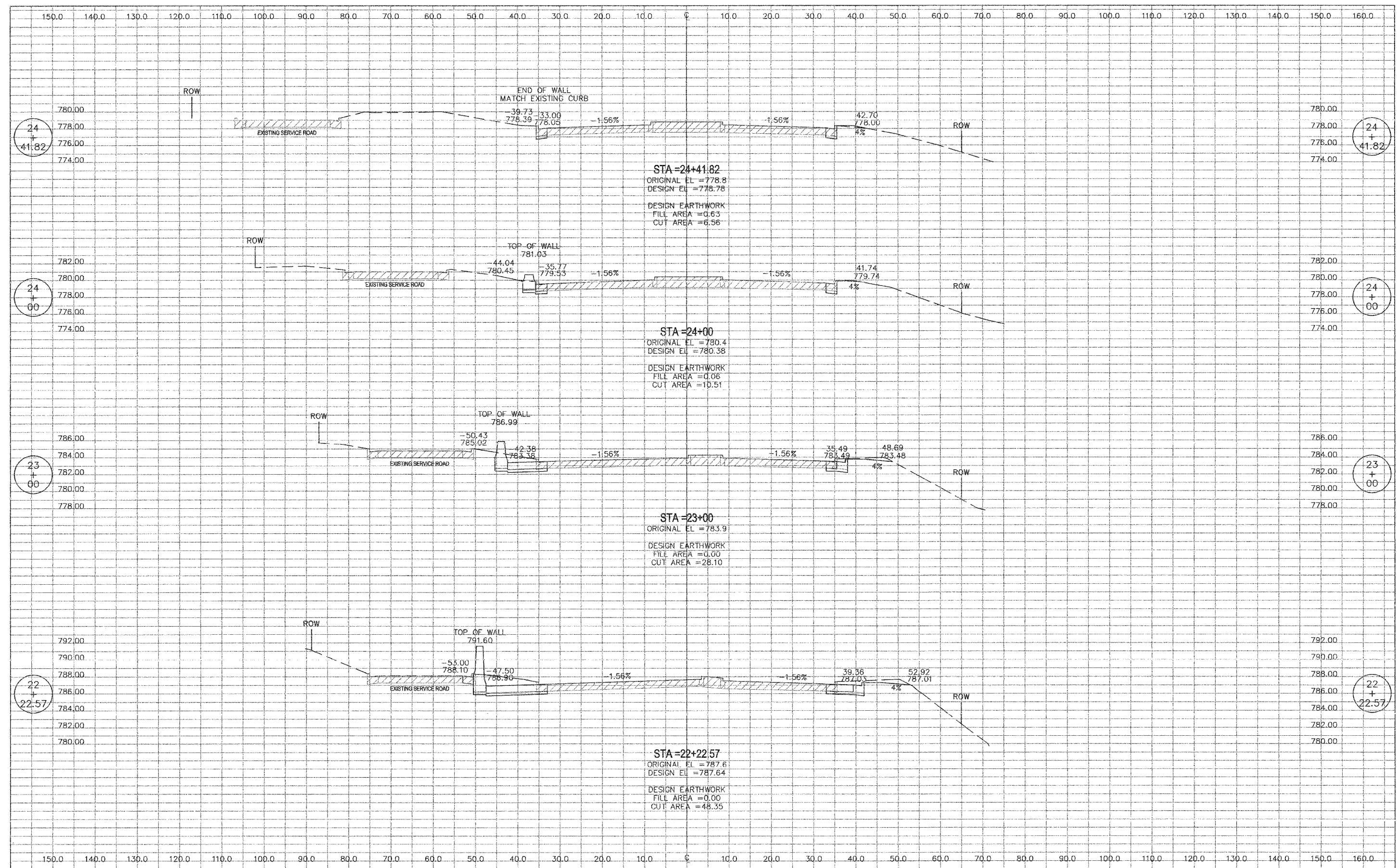
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PERRYVILLE ROAD CROSS SECTIONS



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