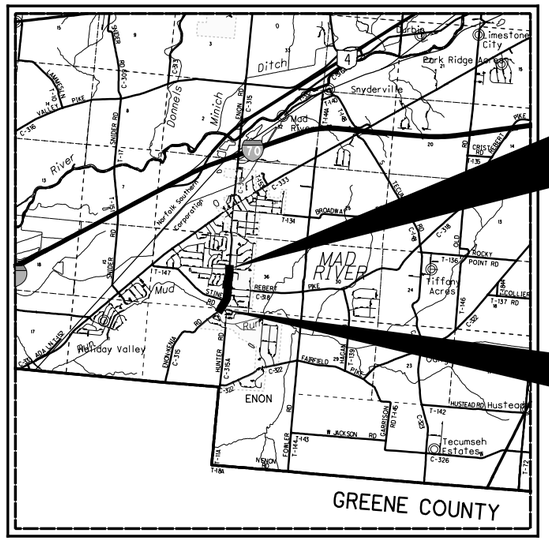


LOCATION MAP

LATITUDE: 39°51'45" LONGITUDE: 83°56'15"

SCALE IN MILES

0 1 2 3 4

N

PORTION TO BE IMPROVED

INTERSTATE HIGHWAY

FEDERAL ROUTES

STATE ROUTES

COUNTY & TOWNSHIP ROADS

OTHER ROADS

DESIGN DESIGNATION

	MUD RUN TO STINE RD.	STINE RD. TO GREEN VISTA DR.
CURRENT ADT (2023)	4096	
DESIGN YEAR ADT (2043)	6086	
DESIGN HOURLY VOLUME (2043)	505	
DIRECTIONAL DISTRIBUTION	53%	
TRUCKS (24 HOUR B&C)	2%	
DESIGN SPEED	55 MPH	35 MPH
LEGAL SPEED	55 MPH	35 MPH
DESIGN FUNCTIONAL CLASSIFICATION:		
MAJOR COLLECTOR		
NHS PROJECT	NO	

DESIGN EXCEPTIONS

DESIGN FEATURE	APPROVAL DATE	SHEET NO.
HORIZONTAL: SUPERELEVATION	PENDING	2, 75

ADA DESIGN WAIVERS

NONE

UNDERGROUND UTILITIES

Contact Two Working Days Before You Dig

OHIO811.org
Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

ENGINEERS SEAL:

SIGNED:

DATE:

PLAN PREPARED BY:
STRAND ASSOCIATES, INC.
615 ELSINORE PLACE, SUITE 320
CINCINNATI, OHIO 45202

CLARK COUNTY, OHIO

OFFICE OF THE COUNTY ENGINEER

CLA-CR315-1.28

VILLAGE OF ENON

MAD RIVER TOWNSHIP

CLARK COUNTY

INDEX OF SHEETS:

PROJECT DESCRIPTION

THIS PROJECT INCLUDES 3400-FT OF FULL-DEPTH PAVEMENT RECONSTRUCTION AND CONSTRUCTION OF A SHARED USE PATH. THE EXISTING STORM SEWER WILL BE REPLACED FOR THE LENGTH OF THE PROJECT. THIS PROJECT ALSO INCLUDES WATER MAIN REPLACEMENT AND SIDEWALK RECONSTRUCTION NORTH OF REBERT PIKE.

PROJECT EARTH DISTURBED AREA: 5.26 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.50 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 5.76 ACRES

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE PART-TIME CLOSING OF THE HIGHWAY TO TRAFFIC, AS NOTED ON SHEETS 10-11. DURING WHICH TIME DETOURS WILL BE PROVIDED AS SHOWN HEREIN. PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED _____
DATE _____ *CLARK COUNTY ENGINEER*

APPROVED _____
DATE _____ *CLARK COUNTY COMMISSIONER*

APPROVED _____
DATE _____ *CLARK COUNTY COMMISSIONER*

APPROVED _____
DATE _____ *CLARK COUNTY COMMISSIONER*

STANDARD CONSTRUCTION DRAWINGS

BP-2.1	1/21/22	DM-1.1	7/17/20	MT-95.61	4/19/19			SS 800	1/21/22
BP-2.2	1/15/21	DM-1.2	7/16/21	MT-97.10	4/19/19			SS 832	10/19/18
BP-3.1	1/21/22	DM-4.2	7/20/12	MT-99.20	4/19/19				
BP-3.2	1/18/19	DM-4.3	1/15/16	MT-101.60	1/17/20				
BP-4.1	7/19/13	DM-4.4	1/15/16	MT-101.90	7/17/20				
BP-5.1	1/21/22			MT-105.10	1/17/20				
BP-7.1	1/21/22	MH-3	7/16/21						
BP-9.1	1/18/19	MH-4	7/16/21	TC-41.20	10/18/13				
		MH-5	7/16/21	TC-41.30	10/18/13				
CB-2-2A,	7/16/21			TC-42.10	10/18/13				
2-2B, 2-2C				TC-42.20	10/18/13				
CB-2-3	7/16/21			TC-52.10	10/18/13				
CB-3	7/16/21			TC-52.20	1/15/21				
CB-4	7/16/21			TC-65.10	1/17/14				
CB-6	1/21/22			TC-65.11	7/21/17				
				TC-71.10	7/16/21				

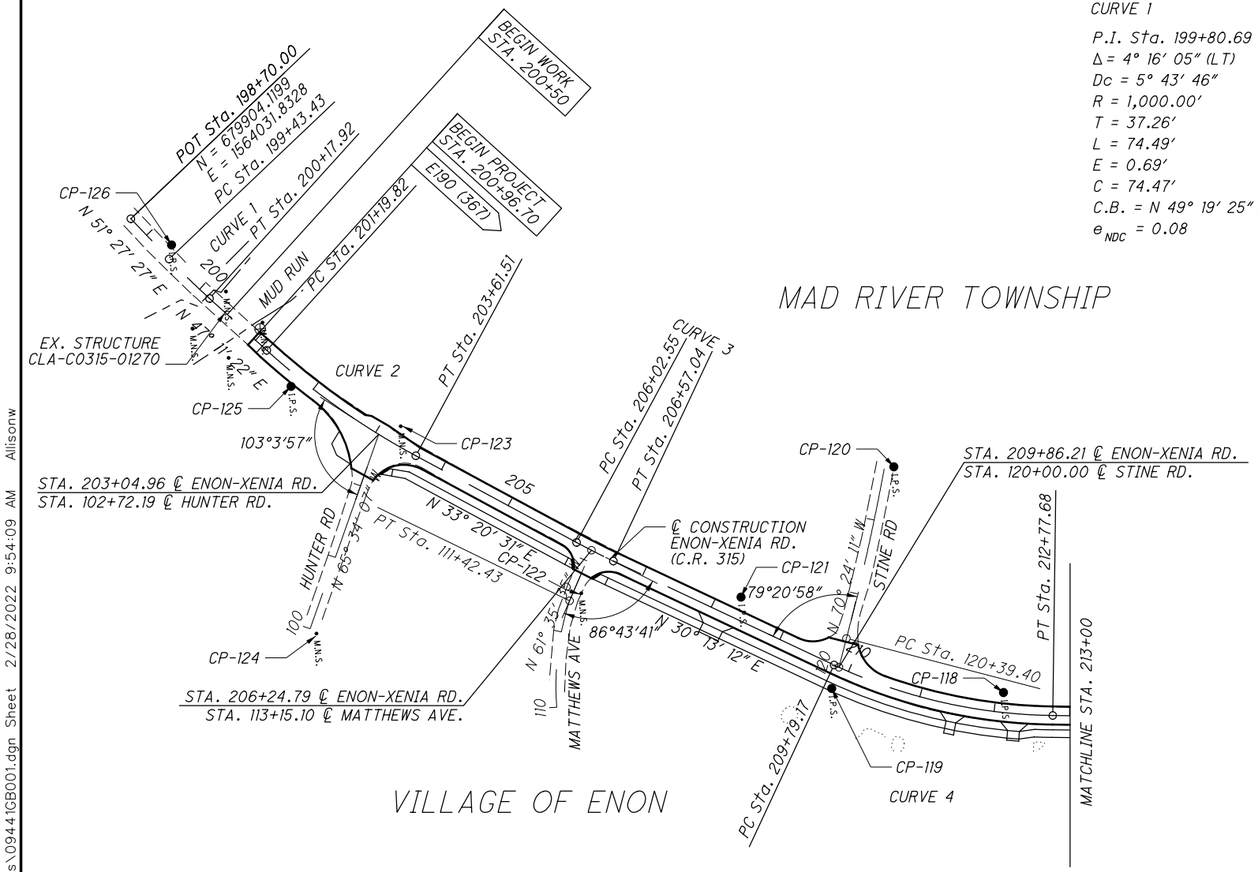
SUPPLEMENTAL SPECIFICATIONS		*SPECIAL PROVISIONS*
SS 800	1/21/22	
SS 832	10/19/18	

FEDERAL PROJECT NO. E190 (367)

PID NO. 109441

CONSTRUCTION PROJECT NO. CLA-CR315-1.28

RAILROAD INVOLVEMENT N/A



CURVE 1

P.I. Sta. 199+80.69
Δ = 4° 16′ 05″ (LT)
Dc = 5° 43′ 46″
R = 1,000.00′
T = 37.26′
L = 74.49′
E = 0.69′
C = 74.47′
C.B. = N 49° 19′ 25″ E
e_{NDC} = 0.08

CURVE 2

P.I.Sta. 202+41.26
Δ = 13° 50′ 52″ (LT)
Dc = 5° 43′ 46″
R = 1,000.00′
T = 121.44′
L = 241.69′
E = 7.35′
C = 241.10′
C.B. = N 40° 15′ 57″ E
e_{NDC} = 0.08; e_D = R.C.

CURVE 3

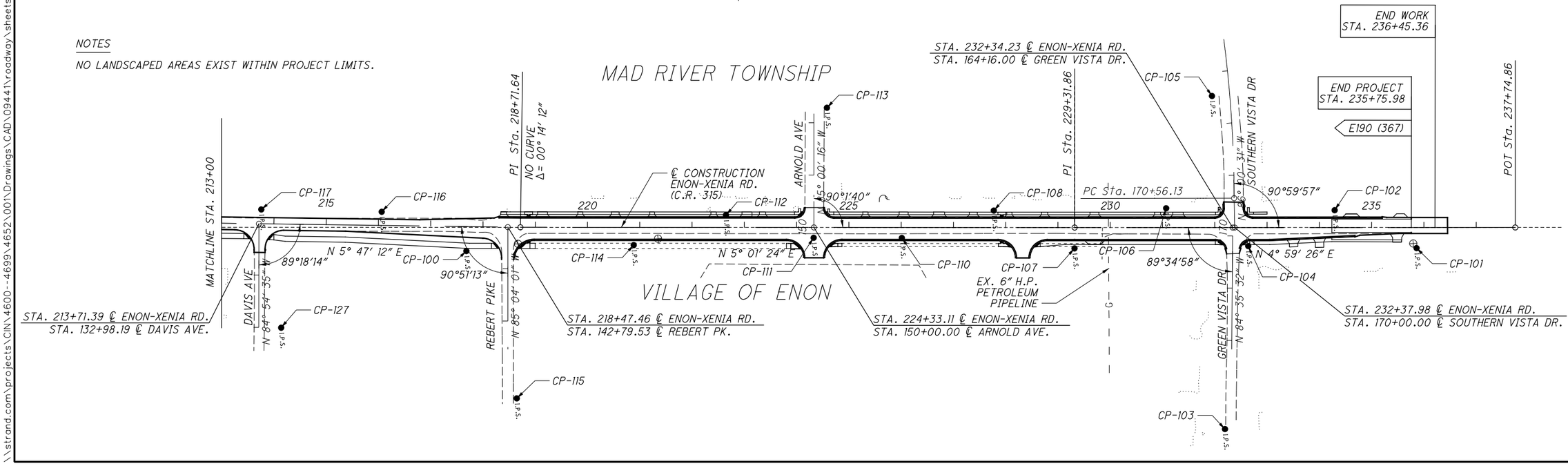
P.I.Sta. 206+29.80
Δ = 3° 07′ 19″ (LT)
Dc = 5° 43′ 46″
R = 1,000.00′
T = 27.25′
L = 54.49′
E = 0.37′
C = 54.48′
C.B. = N 31° 46′ 51″ E
e_{NDC} = 0.08; e_D = R.C.

CURVE 4

P.I.Sta. 211+30.73
Δ = 24° 26′ 00″ (LT)
Dc = 8° 11′ 06″
R = 700.00′
T = 151.56′
L = 298.51′
E = 16.22′
C = 296.25′
C.B. = N 18° 00′ 12″ E
e_{NDC} = 0.06; e_D = R.C.

NOTES

NO LANDSCAPED AREAS EXIST WITHIN PROJECT LIMITS.



SCHEMATIC PLAN

CLA-CR315-1.28

PROJECT CONTROL POINTS

TYPE	STATION	OFFSET	NORTHING (GRID)	EASTING (GRID)	NORTHING (SCALED)	EASTING (SCALED)	ELEV	DESC
CP-100	217+68.83	46.64 RT	681543.3606	1564887.1310	681589.0853	1564992.1193	898.2840	IPINS
CP-101	235+85.92	39.41 RT	683354.5300	1565040.0790	683400.3763	1565145.0775	897.9350	IPINS
CP-102	234+29.22	33.01 LT	683204.7361	1564954.3080	683250.5723	1565059.3008	897.7930	IPINS
CP-103	232+19.42	385.40 RT	682959.3495	1565352.8520	683005.1692	1565457.8715	896.0830	IPINS
CP-104	232+63.88	35.37 RT	683034.0847	1565008.0400	683079.9095	1565113.0364	895.6930	IPINS
CP-105	231+94.67	251.52 LT	682990.0999	1564716.2370	683035.9217	1564821.2138	897.6360	IPINS
CP-106	231+06.89	36.84 LT	682883.9801	1564922.4550	682929.7948	1565027.4456	897.2290	IPINS
CP-107	229+31.67	39.81 RT	682702.7448	1564983.5640	682748.5473	1565088.5587	896.7940	IPINS
CP-108	227+77.25	32.41 LT	682555.2499	1564898.1090	682601.0425	1565003.0980	896.9990	IPINS
CP-110	226+01.36	20.02 RT	682375.4590	1564934.9330	682421.2396	1565039.9245	896.1130	IPINS
CP-111	224+32.60	19.70 RT	682207.3864	1564919.8380	682253.1557	1565024.8285	896.8790	IPINS
CP-112	222+64.80	23.46 LT	682044.0246	1564862.1560	682089.7829	1564967.1426	898.2580	IPINS
CP-113	224+57.93	228.85 LT	682254.3778	1564674.4740	682300.1502	1564779.4480	895.9830	IPINS
CP-114	220+88.45	33.82 RT	681863.3491	1564903.7700	681909.0953	1565008.7594	897.7640	IPINS
CP-115	218+69.11	327.13 RT	681614.8432	1565176.2880	681660.5727	1565281.2957	899.9920	IPINS
CP-116	216+05.88	26.03 LT	681388.5789	1564798.4100	681434.2933	1564903.3923	896.9220	IPINS
CP-117	213+75.41	27.32 LT	681159.4327	1564773.8880	681205.1317	1564878.8687	889.9100	IPINS
CP-118	212+09.64	26.21 LT	680997.3670	1564755.3840	681043.0551	1564860.3634	885.5390	IPINS
CP-119	209+89.01	29.43 RT	680771.8047	1564730.1870	680817.4777	1564835.1647	884.5120	IPINS
CP-120	209+39.05	270.34 LT	680879.1175	1564445.8800	680924.7977	1564550.8387	891.6430	IPINS
CP-121	208+29.78	28.68 LT	680663.0769	1564599.6880	680708.7426	1564704.6570	882.5600	IPINS
CP-122	206+37.79	56.74 RT	680453.4413	1564576.2090	680499.0929	1564681.1764	882.9670	MAGS
CP-123	203+24.49	24.14 LT	680235.1832	1564335.7940	680280.8202	1564440.7453	884.3630	MAGS
CP-124	203+58.34	268.83 RT	680100.6236	1564598.7160	680146.2516	1564703.6849	885.0660	MAGS
CP-125	201+74.75	15.25 RT	680095.5735	1564270.7540	680141.2011	1564375.7009	882.8690	IPINS
CP-126	199+32.04	15.10 LT	679954.6931	1564070.9980	680000.3113	1564175.9315	881.9140	IPINS
CP-127	214+16.64	198.19 RT	681177.7075	1565002.3940	681223.4077	1565107.3900	893.7380	IPINS

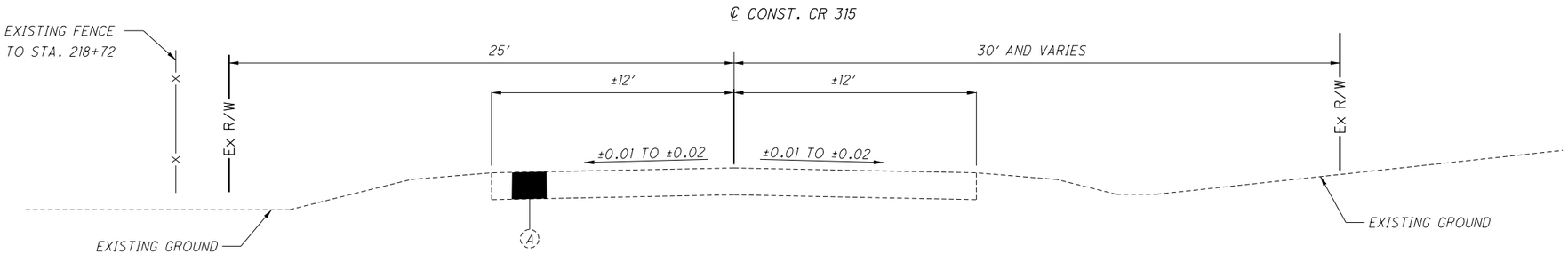
NOTES:

1. ALL STATIONS AND OFFSETS ARE WITH RESPECT TO ℄ CONSTRUCTION ENON-XENIA RD. (C.R. 315)
2. THE COORDINATES SHOWN IN THE PLANS ARE GROUND COORDINATES, UNLESS INDICATED OTHERWISE.
3. FOR ADDITIONAL SURVEYING PARAMETERS INFORMATION, SEE NOTE ON SHEET 7.

HORIZONTAL SCALE IN FEET
0 50 100 200

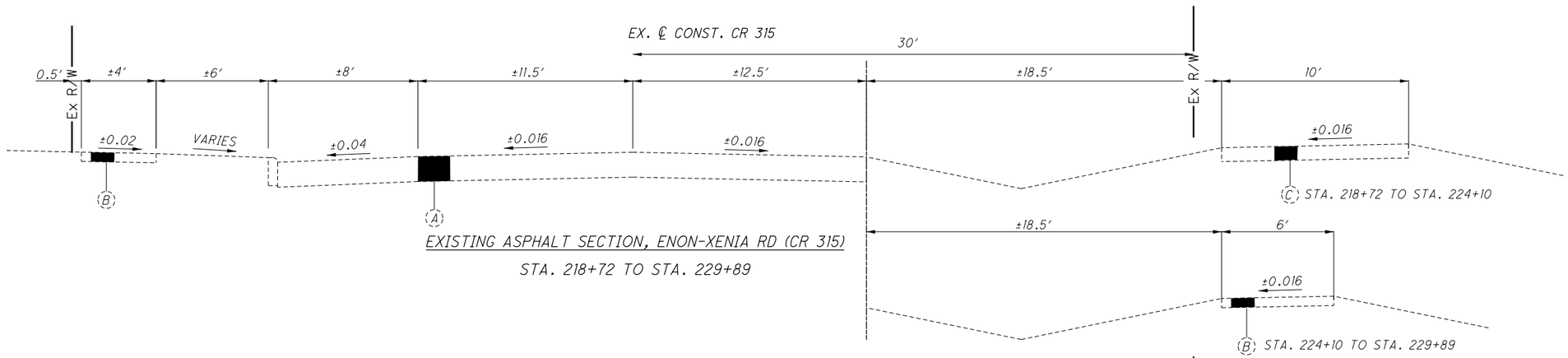
PROJECT CONTROL INFORMATION

CLA-CR315-1.28



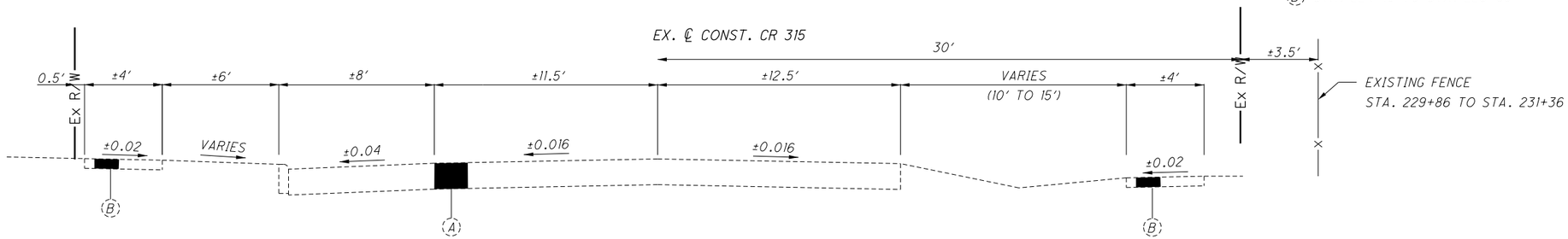
EXISTING ASPHALT SECTION, ENON-XENIA RD (CR 315)

STA. 200+97 TO STA. 218+72



EXISTING ASPHALT SECTION, ENON-XENIA RD (CR 315)

STA. 218+72 TO STA. 229+89



EXISTING ASPHALT SECTION, ENON-XENIA RD (CR 315)

STA. 229+89 TO STA. 236+45.36

LEGEND

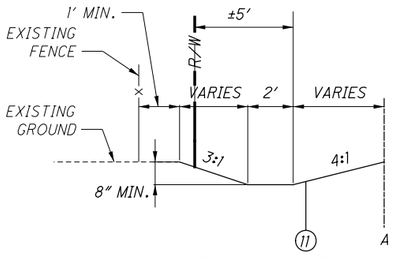
1. ITEM 441 - 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG 64-22 WITH ASPHALT SAFETY EDGE PER BP-3.2
2. ITEM 441 - 1.75″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448)
3. ITEM 254 - 3.25″ PAVEMENT PLANING
4. ITEM 301 - 5″ ASPHALT CONCRETE BASE, PG64-22
5. ITEM 407 - NON-TRACKING TACK COAT
6. ITEM 608 - 4″ CONCRETE WALK
7. ITEM 609 - CURB AND GUTTER, TYPE 4
8. ITEM 304 - 6″ AGGREGATE BASE (MAX 6″ LIFT)
9. ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING
10. ITEM 605 - 6″ BASE PIPE UNDERDRAINS
11. ITEM 659 - SEEDING AND MULCHING, AS PER PLAN AND TOPSOIL, AS PER PLAN
12. ITEM 609 - CURB AND GUTTER, TYPE 2
13. NOT USED
14. SUBGRADE IMPROVEMENT (12″ DEEP) SEE NOTE ON SHEET 7.

* OR AS OTHERWISE NOTED IN THE PLANS

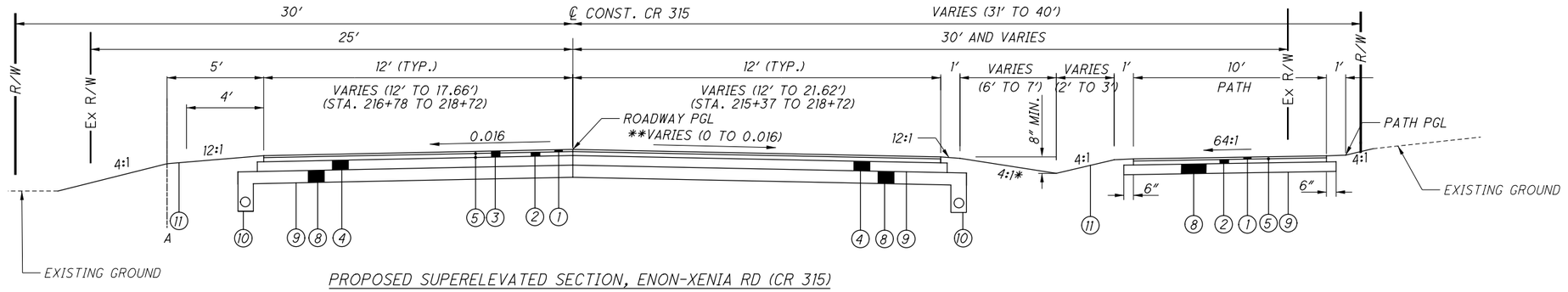
(A) EX. ASPHALT CONCRETE, 12″ AVG.
(B) EX. CONCRETE WALK, 4″ AVG.
(C) EX. ASPHALT PATH, 3″ AVG.

TYPICAL SECTIONS

CLA-CR315-1.28



PROPOSED WEST DITCH
STA. 210+31 TO STA. 218+72

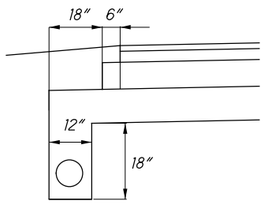


PROPOSED SUPERELEVATED SECTION, ENON-XENIA RD (CR 315)
STA. 200+97 TO STA. 218+31 = 1,734'

STA. 203+36 TO STA. 210+31

PROPOSED NORMALSECTION, ENON-XENIA RD (CR 315)
(WITH SHARED USE PATH)
STA. 218+31 TO STA. 224+10 = 579'

UNCURBED STEP DETAIL
WITH UNDERDRAIN



(NOTE: FOR CLARITY, ASPHALT SAFETY EDGE NOT SHOWED. REFER TO SCD BP-3.2)

LEGEND

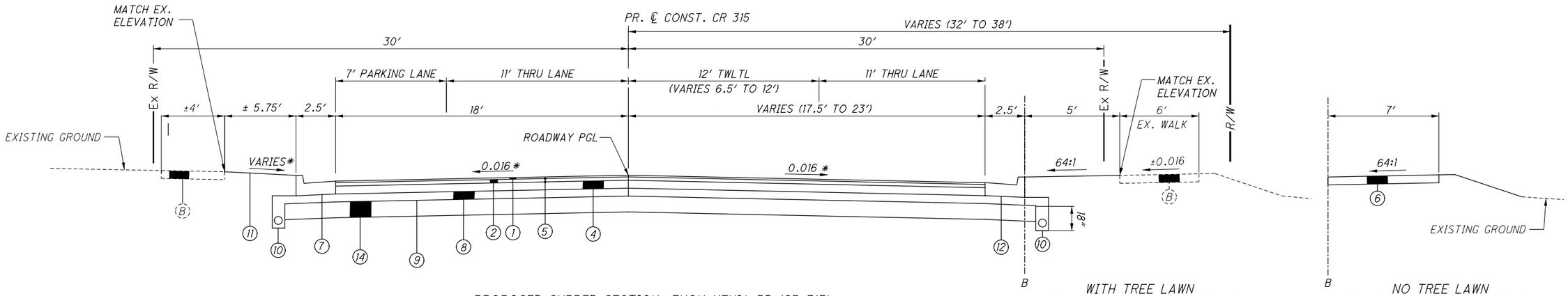
1. ITEM 441 - 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG 64-22 WITH ASPHALT SAFETY EDGE PER BP-3.2
2. ITEM 441 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448)
3. ITEM 254 - 3.25" PAVEMENT PLANING
4. ITEM 301 - 5" ASPHALT CONCRETE BASE, PG64-22
5. ITEM 407 - NON-TRACKING TACK COAT
6. ITEM 608 - 4" CONCRETE WALK
7. ITEM 609 - CURB AND GUTTER, TYPE 4
8. ITEM 304 - 6" AGGREGATE BASE (MAX 6" LIFT)
9. ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING
10. ITEM 605 - 6" BASE PIPE UNDERDRAINS
11. ITEM 659 - SEEDING AND MULCHING, AS PER PLAN AND TOPSOIL, AS PER PLAN
12. ITEM 609 - CURB AND GUTTER, TYPE 2
13. NOT USED
14. SUBGRADE IMPROVEMENT (12" DEEP) SEE NOTE ON SHEET 7.

(A) EX. ASPHALT CONCRETE, 12" AVG.
(B) EX. CONCRETE WALK, 4" AVG.
(C) EX. ASPHALT PATH, 3" AVG.

* OR AS OTHERWISE NOTED IN THE PLANS
** SEE SUPERELEVATION TABLE (SHEET 75)

TYPICAL SECTIONS

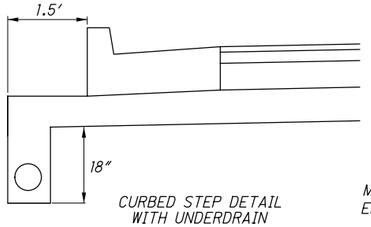
CLA-CR315-1.28



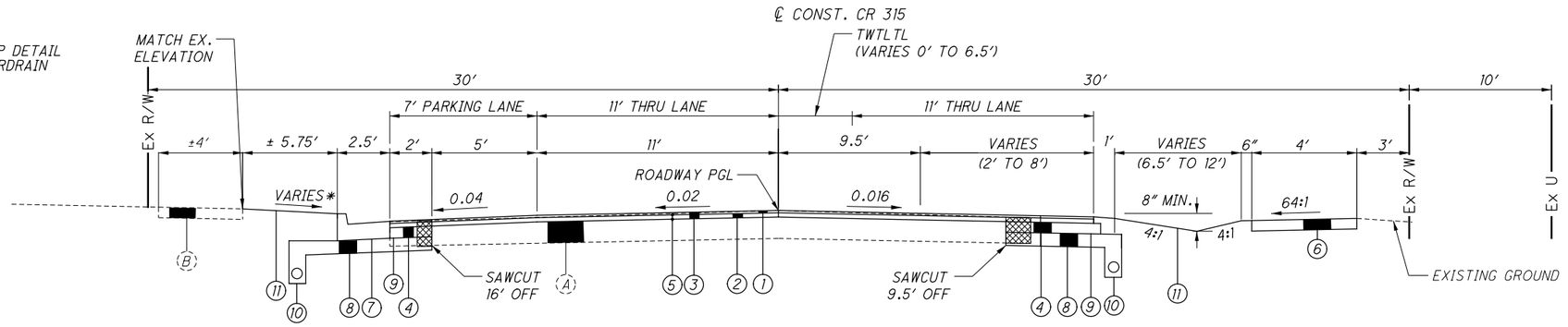
PROPOSED CURBED SECTION, ENON-XENIA RD (CR 315)
STA. 224+10 TO STA. 234+24 = 1014′

WITH TREE LAWN
STA. 224+10 TO STA. 228+12
= 402′

NO TREE LAWN
STA. 228+12 TO STA. 234+24
= 612′



CURBED STEP DETAIL
WITH UNDERDRAIN



PROPOSED CURBED WIDENING SECTION, ENON-XENIA RD (CR 315)
234+24 TO 236+76 = 252′

LEGEND

1. ITEM 441 - 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG 64-22 WITH ASPHALT SAFETY EDGE PER BP-3.2
2. ITEM 441 - 1.75″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448)
3. ITEM 254 - 3.25″ PAVEMENT PLANING
4. ITEM 301 - 5″ ASPHALT CONCRETE BASE, PG64-22
5. ITEM 407 - NON-TRACKING TACK COAT
6. ITEM 608 - 4″ CONCRETE WALK
7. ITEM 609 - CURB AND GUTTER, TYPE 4
8. ITEM 304 - 6″ AGGREGATE BASE (MAX 6″ LIFT)
9. ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING
10. ITEM 605 - 6″ BASE PIPE UNDERDRAINS
11. ITEM 659 - SEEDING AND MULCHING, AS PER PLAN AND TOPSOIL, AS PER PLAN
12. ITEM 609 - CURB AND GUTTER, TYPE 2
13. NOT USED
14. SUBGRADE IMPROVEMENT (12″ DEEP) SEE NOTE ON SHEET 7.

(A) EX. ASPHALT CONCRETE, 12″ AVG.
(B) EX. CONCRETE WALK, 4″ AVG.
(C) EX. ASPHALT PATH, 3″ AVG.

REMOVE EX. PAVEMENT

* OR AS OTHERWISE NOTED IN THE PLANS

TYPICAL SECTIONS

CLA-CR315-1.28

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

GAS:
COLUMBIA GAS OF OHIO
2101 W. MAIN STREET
SPRINGFIELD, OHIO 45504

GAS:
MARATHON PIPE LINE LLC
10722 E. COUNTY ROAD 300 N.
INDIANAPOLIS, IN 46234
MR. AUSTIN GUYER
OFFICE: (317) 871-7814
CELL: (317) 4737441
AGUYER@MARATHONPETROLEUM.COM

SANITARY AND WATER:
CLARK COUNTY UTILITIES DEPARTMENT
3130 E MAIN ST
P.O BOX 1303
SPRINGFIELD, OH 45501
MR. TOM BLEIDORN, P.E.
(937) 521-2150

TELECOM:
AT&T
7201 FAR HILLS AVENUE
DAYTON, OH 45459
MR. HOWARD LAUDERMILK
(937) 296-3588

TELECOM:
CHARTER COMMUNICATIONS
3691 TURNER ROAD
DAYTON, OHIO, 45415
MR. CHRIS BOOKSH
OFFICE: (937) 425-8854
CELL: (937) 631-1594

WATER:
VILLAGE OF ENON
363 E MAIN ST
ENON, OH 45323
MR. KEVIN SIFERD
VILLAGE ADMINISTRATOR
(937) 864-7870

ELECTRIC:
OHIO EDISON
420 YORK STREET
SPRINGFIELD, OHIO 45505
MR. NAT BENOY
(937) 327-1272

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ALL POWER-OPERATED CONSTRUCTION-TYPE DEVICES SHALL BE OPERATED IN A MANNER THAT CONFORMS TO LOCAL NOISE ORDINANCES. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISDE CUSTIMARILY AND NECESSARILY ATTENDANT TO THE REASONALBE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 3 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: MIN. 5 VRS-DERIVED GNSS OBSERVATIONS
MONUMENT TYPE: IRON PIN

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOIDA2B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE - SOUTH ZONE
COMBINED SCALE FACTOR: 1.00006709
ORIGIN OF COORDINATE
SYSTEM: 0,0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY FEET.

SUBGRADE IMPROVEMENT

IF UNSUITABLE SOILS ARE ENCOUNTERED AS IDENTIFIED BY THE ENGINEER THE UNSUITABLE SOIL SHALL BE EXCAVATED AND PAID FOR BY ITEM 204 EXCAVATION OF SUBGRADE AND REPLACED USING ITEM 204 GRANULAR MATERIAL, TYPE B. THE FOLLOWING STATION RANGES REQUIRE IMPROVEMENT:

STATION 221+50 TO 225+50

IN ADDITION, 20% OF REMAINING EXPOSED SUBGRADE HAS BEEN ASSUMED TO REQUIRE IMPROVEMENT ALONG THE REMAINING LENGTH OF THE PROJECT. THE BELOW QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

204, EXCAVATION OF SUBGRADE - 1,723 CY
204, GRANULAR MATERIAL, TYPE B - 1,723 CY

CALCULATIONS:
AREA REQUIRING IMPROVEMENT
= 400 FT LENGTH X 49 FT WIDTH = 2,178 SY
20% OF REMAINING SUBGRADE AREA
= (17,130 SY - 2,178 SY) X 20% = 2,990 SY
VOLUME OF IMPROVEMENTS AT 12" DEPTH
= (2,178 SY + 2,990 SY) X 1 FT X (1 YD / 3 FT) = 1,723 CY

SEEDING AND MULCHING, AS PER PLAN

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST 2 EACH

659, SEEDING AND MULCHING, AS PER PLAN 8,786 SY

659, TOPSOIL, AS PER PLAN
= 8,786 SY X (111 CY/1000 SY) = 975 CY

659, REPAIR SEEDING AND MULCHING
= 5% X 8,786 SY = 439 SY

659, INTER-SEEDING
= 5% X 8,786 SY = 439 SY

659, COMMERCIAL FERTILIZER
= 8,786 SY X (1 TON / 7410 SY)
+ 439 SY X (1 TON / 11,111 SY) = 1.23 TON

659, LIME
= 8,786 SY X (1 ACRE / 4,840 SY) = 1.82 AC

659, WATER
= (2 X 8,786 SY X (0.0027 M. GAL. / SY))
+ 439 SY X (0.0027 M. GAL. / SY) = 49 M. GAL

IN ADDITION TO THE REQUIREMENTS OF 659, THE CONTRACTOR SHALL NOT PERFORM ANY FINAL SEEDING AND MULCHING IF SUBSTANTIAL RAIN IS FORECASTED WITHIN 48 HOURS UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL NOT PERFORM SEEDING AND MULCHING WITHOUT WRITTEN APPROVAL IDENTIFYING AREAS APPROVED FOR SEEDING BY STATION RANGE OR BY PROPERTY ADDRESS. THE COST FOR THE WORK DESCRIBED ABOVE SHALL BE INCIDENTAL TO SEEDING AND MULCHING, AS PER PLAN.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

TOPSOIL, AS PER PLAN

QUANTITIES FOR TOPSOIL ACCOUNT FOR 4" OF TOPSOIL PLACED OVER ALL DISTURBED AREAS. PLACE TOPSOIL IN ACCORDANCE WITH ITEM 659.11. PREPARE THE SITE FOR TOPSOIL IN ACCORDANCE WITH 659.10 WITH THE FOLLOWING MODIFICATION: REMOVE ALL STONES, DEBRIS, AND SOIL CLUMPS THAT ARE 0.50 INCH OR GREATER IN ANY DIMENSION FROM ALL SEED AREAS. TOPSOIL SHALL NOT HAVE ANY PARTICLES EXCEEDING 0.50 INCH OR GREATER IN ANY DIMENSION AT THE TIME OF SEEDING.

PROOF ROLLING AND TEST ROLLING

ITEM 206 TEST ROLLING SHALL BE APPLIED TO WIDENED AREAS WHERE NEW EMBANKMENT WILL BE PLACED. ITEM 204 PROOF ROLLING SHALL BE APPLIED ALONG THE ENTIRE ROADWAY ONCE THE PROPOSED SUBGRADE ELEVATION HAS BE ATTAINED. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 204 PROOF ROLLING 8 HR
ITEM 206 TEST ROLLING 8 HR

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
2. EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSUITABLE SUBGRADE. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO 204.05.

   IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.
3. COMPACT THE SUBGRADE ACCORDING TO 204.03.
4. APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSTABLE SUBGRADE. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

   PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO 204.06.
5. EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.
6. PROOF ROLL THE STABILIZED AREAS ACCORDING TO 204.06 TO VERIFY STABILITY.
7. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204 EXCAVATION OF SUBGRADE.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
30"	1		1
48"		2	2

CALCULATED ATW CHECKED JCH

GENERAL NOTES

CLA-CR315-1.28

SAW CUTTING EXISTING PAVEMENT

WHERE THE PLANS CALL FOR SAW CUTTING NEAT LINES ALONG THE EXISTING ASPHALT SURFACES, THE SAW CUT SHALL BE FULL DEPTH. THE EXISTING PAVEMENT EDGE SHALL BE SAWCUT TO LOCATE A SOUND PAVEMENT EDGE PER SECTION 203.04(E) OF THE CMS. ADDITIONAL PAVEMENT REMOVAL MAY BE REQUIRED AS DIRECTED BY THE ENGINEER. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 202 - PAVEMENT REMOVED.

UTILITY TEST HOLES

TEST HOLES WERE PERFORMED PRIOR TO CONSTRUCTION TO INVESTIGATE EXISTING UNDERGROUND UTILITY DEPTHS. THE TEST HOLE REPORTS ARE AVAILABLE UPON REQUEST FROM THE COUNTY ENGINEER'S OFFICE. TEST HOLE LOCATIONS ARE NOTED ON THE PLANS.

REMOVAL OF GROUND MOUNTED SIGN AND REERECTION, AS PER PLAN

THIS WORK SHALL INCLUDE REMOVAL OF SCHOOL FLASHER ASSEMBLY, INCLUDING SOLAR PANELS, AND EXISTING WOOD POST. IMMEDIATELY FOLLOWING COMPLETION OF THE CONSTRUCTION WORK IN THAT AREA, THE CONTRACTOR SHALL REERECT THE POST AND SIGN ASSEMBLY AS SHOWN IN THE PLANS. PAYMENT FOR THIS WORK SHALL BE PER EACH SIGN REMOVED AND REERECTED.

COORDINATION AT MARATHON PETROLEUM PIPELINE

A MARATHON REPRESENTATIVE MUST BE PRESENT FOR ANY WORK WITHIN 50 FT OF THE HIGH PRESSURE PETROLEUM PIPELINE. MAKE CONTACT WITH OPERATIONS SUPERVISOR NICOLE TORR (740-258-6899) A MINIMUM OF 48 HOURS PRIOR TO WORK TAKING PLACE TO SCHEDULE FOR REPRESENTATIVE TO BE PRESENT.

NO VIBRATING EQUIPMENT TO BE USED WITHIN 10 FT OF THE PETROLEUM PIPELINE. THE COST FOR THIS WORK SHALL BE INCIDENTAL TO THE PROPOSED CONDUIT AND ROADWAY WORK IN THE AREA.

PART-WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY TO BUILD THIS PROJECT UNDER TRAFFIC AND TO CONSTRUCT THE FULL PAVEMENT WIDTH IN STAGES, EXERCISE CARE TO PREVENT THE CONSTRUCTION OF A BUTT JOINT IN THE BASE COURSES. LAP LONGITUDINAL JOINTS AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER ANY MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR THE ITEMS DESIGNED TO BE USED 'AS DIRECTED BY THE ENGINEER' UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION IN TO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

ITEM 203 - ROADWAY, MISC.: HYDROEXCAVATION

AS DIRECTED BY THE ENGINEER, WHEN THERE ARE CONCERNS WITH EXISTING UTILITIES, THE CONTRACTOR SHALL HYDROEXCAVATE THE EXISTING UTILITY TO FACILITATE CONSTRUCTION OPERATIONS. ALL COSTS FOR EQUIPMENT MOBILIZATION (MULTIPLE MOBILIZATIONS MAY BE REQUIRED), EXCAVATION, AND RESTORATION OF THE EXCAVATION SHALL BE INCLUDED IN THE UNIT PRICE BID. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 203 -	ROADWAY, MISC.: HYDROEXCAVATION,	300 CY

COORDINATION OF DRIVEWAYS

THE CONTRACTOR SHALL NOTIFY EACH PROPERTY OWNER THREE DAYS BEFORE THE OWNER'S DRIVE WILL BE PLACED. THE CONTRACTOR MAY NEED TO PLACE HALF OF THE DRIVE AT A TIME (OR ONLY ONE OF SEVERAL DRIVES AT A TIME) FOR SOME OF THE PROPERTIES TO MAINTAIN ACCESS. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO WORK OUT AN AGREEABLE SOLUTION WITH EACH OWNER TO MAINTAIN ACCESS FOR THE OWNERS. PAYMENT SHALL BE INCLUDED WITH THE RESPECTIVE DRIVEWAY PAY ITEMS.

TIED CONCRETE BLOCK MATS

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR THE EROSION CONTROL AT THE INTERSECTION OF STINE ROAD AND THE INTERSECTION OF REBERT PIKE. SEE INTERSECTION DETAILS FOR LOCATIONS.

ITEM 601-	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	4 SY

FENCE REMOVED FOR STORAGE, AS PER PLAN

THE CONTRACTOR SHALL PERFORM THIS WORK IN CONFORMANCE WITH ITEM 202 OF THE ODOT CMS. THE CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNER FOR STORAGE OF THE FENCE. DAMAGE TO THE FENCE DUE TO THIS WORK SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

EXISTING SEPTIC SYSTEMS

THE FOLLOWING PROPERTIES ARE SUSPECTED TO HAVE PRIVATE SEPTIC SYSTEMS:

720 ENON-XENIA ROAD
* 15 DAVIS AVENUE
11 GREEN VISTA DRIVE
* 490 S. XENIA STREET
* 480 S. XENIA STREET
* 470 S. XENIA STREET

THE CONTRACTOR SHALL USE CAUTION WHEN PERFORMING WORK WITHIN THESE PROPERTIES. IF ANY DAMAGE OCCURS TO THE EXISTING SEPTIC SYSTEMS THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER AND ENGINEER IMMEDIATELY AND DAMAGE SHALL BE AT THE CONTRACTOR'S EXPENSE.

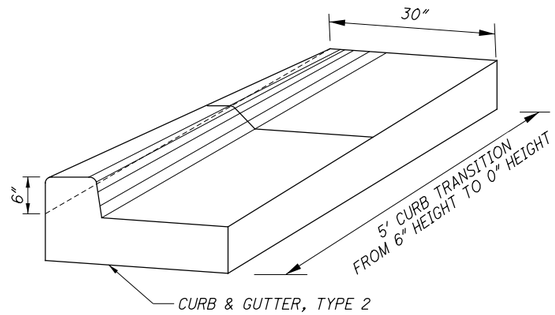
* SKETCHES OF THE SEPTIC SYSTEM FOR THE PROPERTIES INDICATED MAY BE OBTAINED FROM THE CLARK COUNTY COMBINED HEALTH DISTRIC UPON REQUEST. PRELIMINARY REVIEW OF THESE SKETCHES REFLECT THAT THE SEPTIC SYSTEMS DO NOT APPEAR TO BE WITHIN THE PROJECT'S CONSTRUCTION LIMITS.

COORDINATION WITH OHIO EDISON

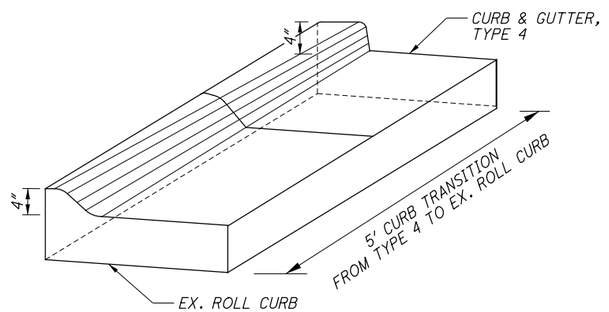
THE EXISTING LIGHT POLES ON THE WEST SIDE OF THE ROAD FROM THE INTERSECTION OF REBERT PIKE TO THE NORTH LIMITS OF CONSTRUCTION SHALL BE REMOVED BY THE OWNER PRIOR TO CONSTRUCTION. THE LIGHT POLES WILL BE RE-INSTALLED BY THE OWNER AS LISTED IN THE RESPECTIVE MAINTENANCE OF TRAFFIC PHASE. THE CONTRACTOR IS NOT PERMITTED TO DISTURB THE POLES. THE CONTRACTOR SHALL NOTIFY OHIO EDISON OF THE APPROPRIATE DATES THAT THIS WORK CAN BE PERFORMED FOUR WEEKS PRIOR TO THE BEGIN DATE.

PROTECTION OF DRINKING WATER RESOURCES

PORTIONS OF THE PROJECT ARE LOCATED WITHIN THE BOUNDARIES OF A DESIGNATED SOLE SOURCE AQUIFER. BEST CONSTRUCTION PRACTICES ARE TO BE IMPLEMENTED TO MINIMIZE WATER QUALITY IMPACTS. IDLE EQUIPMENT, PETROCHEMICALS, AND TOXIC/HAZARDOUS MATERIALS SHALL NOT BE STORED NEAR DRAINAGE WAYS, DITCHES OR STREAMS. REFUELING SHALL NOT BE UNDERTAKEN NEAR DRAINAGE WAYS, DITCHES OR STREAMS. A SPILL CONTAINMENT KIT IS TO BE MAINTAINED ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. SPILLS OF FUELS, OILS, CHEMICALS, OR OTHER MATERIALS WHICH COULD POSE A THREAT TO GROUNDWATER SHALL BE CLEANED UP IMMEDIATELY. IF THE SPILL IS A REPORTABLE AMOUNT, THE LOCAL FIRE DEPARTMENT (911), LOCAL EMERGENCY COORDINATOR (937-324-7615) AND THE OEPA (1-800-282-9378) MUST BE CONTACTED WITHIN 30 MINUTES OF KNOWLEDGE OF THE RELEASE.



BEGIN AND END CURB TRANSITION DETAIL



TYPE 4 TO EX. ROLL CURB TRANSITION DETAIL

CALCULATED ATW
CHECKED JCH

GENERAL NOTES

CLA-CR315-1.28

ITEM 670 DITCH EROSION PROTECTION MAT, TYPE A

THIS ITEM INCLUDES ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO INSTALL ITEM 670 DITCH EROSION PROTECTION MAT, TYPE A. THE INSTALLED WIDTH OF THE MAT SHALL BE CENTERED ON THE PROPOSED FLOW LINE OF THE DITCH AS SPECIFIED BELOW. THIS ITEM SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS:

STA	STA	SIDE	WIDTH	QUANTITY
214+00	216+50	RT	11.0'	2,750 SY

ITEM SPECIAL - FILL AND PLUG EXISTING CONDUIT

THIS ITEM SHALL CONSIST OF THE CONSTRUCTION OF BULK-HEADS IN AN EXISTING CONDUIT AND FILLING THE AREA THUS SEALED OFF WITH ITEM 613-LOW STRENGTH MORTAR, FINE AGGREGATE (SAND) IN ACCORDANCE WITH ITEM 703.02, SAND OR OTHER MATERIAL APPROVED BY THE ENGINEER.

BULKHEADS SHALL BE LOCATED AT THE LIMITS OF THE AREA TO BE FILLED AS INDICATED ON THE PLANS. THE BULKHEADS SHALL CONSIST OF BRICK OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

THE FILL MATERIAL SHALL BE PUMPED INTO PLACE, OR PLACED BY OTHER MEANS APPROVED BY THE ENGINEER, SO THAT, AFTER SETTLEMENT, AT LEAST 90 PERCENT OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, FOR ITS ENTIRE LENGTH, SHALL BE FILLED. THE LENGTH OF FILLED AND PLUGGED CONDUIT TO BE PAID FOR SHALL BE THE ACTUAL NUMBER OF FEET (MEASURED ALONG THE CENTERLINE OF EACH CONDUIT FROM OUTER FACE TO OUTER FACE OF BULKHEADS) FILLED AND PLUGGED AS DESCRIBED ABOVE.

IN LIEU OF FILLING AND PLUGGING THE EXISTING CONDUIT, THE PIPE MAY BE CRUSHED AND BACKFILLED IN ACCORDANCE WITH THE PROVISIONS OF 203, OR IT MAY BE REMOVED. THE LENGTH, MEASURED AS PROVIDED ABOVE, SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR, ITEM SPECIAL, FILL AND PLUG EXISTING CONDUIT. THE CONTRACTOR SHALL PERFORM THIS WORK FOR THE FOLLOWING EXISTING DIAMETER PIPES. EACH DIAMETER PIPE SHALL BE PAID FOR AS A SEPARATE PAY ITEM.

2"	8"	18"	36"
4"	10"	24"	42"
6"	12"	30"	48"

COMPACTION AND SUPPORT AT VILLAGE OF ENON TRANSITE WATER MAIN

CONTRACTOR IS TO USE CAUTION WHEN PERFORMING SUBGRADE COMPACTION NEAR THE VILLAGE OF ENON EX. 8" TRANSITE (ASBESTOS CEMENT) WATER MAIN FOR THE LENGTH OF THE PROJECT. NO HEAVY COMPACTION EQUIPMENT ABOVE A PLATE COMPACTOR IS TO BE USED WITHIN 5' IN ANY DIRECTION OF THE TRANSITE WATER MAIN.

THE CONTRACTOR IS RESPONSIBLE FOR SUPPORTING THE TRANSITE MAIN WHEN PERFORMING OPEN TRENCH ACTIVITIES FOR STORM AND SANITARY SEWER WORK. FOLLOWING TRENCH OPERATIONS, THE CONTRACTOR SHALL PROVIDE LOW STRENGTH MORTAR BACKFILL UP TO THE SPRINGLINE OF THE WATER MAIN. THE WORK TO PLACE THE LSM SHALL BE INCLUDED IN THE COST OF THE PROPOSED CONDUIT PAY ITEM. SEE NOTE ON THIS SHEET.

THE WORK DESCRIBED IN THIS NOTE SHALL BE INCIDENTAL TO THE APPLICABLE PAY ITEMS. APPLICABLE PAY ITEMS INCLUDE, BUT ARE NOT LIMITED TO: CONDUIT PAY ITEMS, FILL AND PLUG CONDUIT PAY ITEMS, SUBGRADE COMPACTION AND PROOF ROLLING, SUBGRADE IMPROVEMENT PAY ITEMS.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, OR OTHERWISE NOTED ON THE PLANS,THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN

THIS WORK SHALL CONSIST OF RECONSTRUCTION OF EXISTING SANITARY AND/OR STORMWATER MANHOLES THAT ARE LOCATED WITHIN THE PROPOSED CURB AND GUTTER. THE CONTRACTOR SHALL REMOVE THE EXISTING CASTING AND WALLS IN CONFORMANCE WITH ODOT CMS SECTION 611. THE STRUCTURE SHALL BE RECONSTRUCTED TO ENSURE THAT THE STRUCTURE DOES NOT CONFLICT WITH THE CURB AND GUTTER DEPTH. THE FRAME AND COVER SHALL BE PLACED EITHER WITHIN THE GUTTER OR AT THE TOP OF THE CURB, AND POSITIONED SUCH THAT THE VERTICAL FACE OF THE CURB IS NOT IMPACTED.

THIS WORK SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO PERFORM THE WORK IN CONFORMANCE WITH ODOT CMS SECTION 611.

HOUSE DRAINS AND FARM DRAINS

ALL HOUSE DRAINS AND FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE CONSTRUCTION LIMITS BY ITEM 611 CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES, SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 611 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL FIELD TILES WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY 611, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

EROSION CONTROL PADS AND ANIMAL GUARDS SHALL BE PROVIDED AT THE OUTLET END OF ALL DRAINS AS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. PAYMENT FOR THE EROSION CONTROL PADS AND ANIMAL GUARDS AND ANY NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

611	12" CONDUIT, TYPE B	20 FT.
611	6" CONDUIT, TYPE E	20 FT.
611	6" CONDUIT, TYPE F	30 FT.
601	ROCK CHANNEL PROTECTION TYPE C WITH FILTER	20 CU. YD.

LOW STRENGTH MORTAR BACKFILL

THIS CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT TO INSTALL LOW STRENGTH MORTAR BACKFILL (LSM) IN ACCORDANCE WITH THE ODOT CMS IN THE LOCATIONS SHOWN IN THE STORM SEWER PROFILE SHEETS AND THE SANITARY PLANS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONDUIT PAY ITEM. THE FOLLOWING PAY ITEMS ARE AFFECTED:

ITEM 611 - 8" TYPE B, 748.01
ITEM 611 - 10" TYPE B, 707.45
ITEM 611 - 12" TYPE B
ITEM 611 - 12" TYPE B, 707.45

ITEM 611 - 12" TYPE C
ITEM 611 - 15" TYPE B
ITEM 611 - 18" TYPE B
ITEM 611 - 24" TYPE B

ITEM 611 - 30" TYPE B
ITEM 611 - 36" TYPE B
ITEM 611 - 48" TYPE B
ITEM 611 - 60" TYPE B

ITEM 611 - 72" TYPE B, 707.75
ITEM 611 - 43" X 68" TYPE B, 706.04

DRAINAGE ALTERNATE 1

UNLESS OTHERWISE SHOWN IN THE PLANS ALL TYPE B CONDUIT SHALL BE CONCRETE PIPE (706.02) AND ALL TYPE C CONDUIT SHALL BE CPP (707.33)

MANHOLE, MISC.: MH-4 OR MH-5

THIS WORK INCLUDES ALL LABOR, MATERIAL, AND EQUIPMENT TO FURNISH AND INSTALL EITHER ODOT MANHOLE TYPE 4 OR MANHOLE TYPE 5 IN ACCORDANCE WITH SECTION 611 OF THE CMS AND THE STANDARD CONSTRUCTION DRAWINGS MH-4 AND MH-5, RESPECTIVELY. THE CONTRACTOR SHALL SELECT THE MANHOLE TYPE BEST SUITED FOR EACH LOCATION AS SHOWN IN THE PLANS. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO THE ENGINEER AND SHALL NOT PURCHASE THE STRUCTURE UNTIL RECEIVING ENGINEER APPROVAL.

PER THE STANDARD CONSTRUCTION DRAWINGS, MANHOLE TYPE 4 MUST BE USED WHERE THERE IS NO CHANGE IN HORIZONTAL DIRECTION. IN LOCATIONS THROUGHOUT THE PLANS, MANHOLE, MISC.: MH-4 OR MH-5 IS PROPOSED IN AREAS WITH A SLIGHT HORIZONTAL DEFLECTION. WHEN NECESSARY, THE CONTRACTOR IS RESPONSIBLE FOR ACHIEVING THE PROPOSED ALIGNMENT WHEN LAYING THE PIPE JOINTS AND FITTINGS ALONG THE LENGTHS OF THE INCOMING AND OUTGOING PIPES. THE COST FOR THIS WORK SHALL BE INCIDENTAL TO THE ITEM 611 - XX" CONDUIT TYPE B.

PAYMENT FOR FITTINGS, CAPS, BENDS

THIS WORK INCLUDES ALL LABOR, MATERIAL, AND EQUIPMENT TO FURNISH AND INSTALL CAPS, BENDS, AND OTHER FITTINGS AS SHOWN IN THE DRAWINGS. THE COST FOR THIS WORK SHALL BE INCIDENTAL TO THE RESPECTIVE CONDUIT ITEM.

CALCULATED ATW CHECKED JCH

GENERAL NOTES

CLA-CR315-1.28

ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEETS 13 & 14.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE.

NOTICE OF CLOSURE SIGN TIME TABLE

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
ROAD CLOSURE	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES AS SHOWN IN THE DETOUR PLANS.

INGRESS AND EGRESS TO ANY DRIVE SHALL BE MAINTAINED AT ALL TIMES UNLESS PERMISSION IS OBTAINED FROM THE OWNER OR ENGINEER FOR ACCESS TO BE HALTED. THE CONTRACTOR SHALL PROVIDE A 72 HOURS NOTICE AS TO WHEN ACCESS TO DRIVEWAYS WILL BE RESTRICTED DUE TO CONSTRUCTION OPERATIONS. THIS ACCESS SHALL BE MAINTAINED BY THE USE OF EXISTING AND PROPOSED PAVEMENT AND ITEM 304 AGGREGATE BASE IN ACCORDANCE WITH SECTION 410 OF THE ODOT CMS FOR TRAFFIC COMPACTED SURFACES.

IF DRIVEWAY ACCESS IS NOT MAINTAINED AS DIRECTED IN THE PLANS AND AT THE DISCRETION OF THE ENGINEER, THE CONTRACTOR SHALL RECTIFY THE ISSUE IMMEDIATELY AT THE EXPENSE OF THE CONTRACTOR. SEE ADDITIONAL NOTE ON SHEET 8.

ITEM 614, MAINTAINING TRAFFIC (CONTINUED)

DRAINAGE FLOW SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION BY USE OF EXISTING STORM SEWER, PROPOSED STORM SEWER, AND/OR DITCHES. ANY LABOR, MATERIALS, OR EQUIPMENT NECESSARY TO MAINTAIN DRAINAGE FLOW SHALL BE INCLUDED IN THE 614 LUMP SUM BID ITEM FOR MAINTAINING TRAFFIC.

THE LANE FOR THROUGH TRAFFIC SHALL BE A MINIMUM OF 10' AT ALL TIMES EXCEPT FOR LENGTHS LESS THAN 100 FT IN WHICH A 9' LANE MAY BE USED. THE CONTRACTOR IS PERMITTED TO USE THIS NARROW LANE WIDTH DURING PHASE 3 OF CONSTRUCTION WHEN INSTALLING STORM SEWER MANHOLES. NO MORE THAN ONE MANHOLE SHALL BE INSTALLED AT A TIME AND OPERATIONS AFFECTING TRAFFIC LANE WIDTH SHALL NOT EXCEED ONE DAY.

THE FOLLOWING INTERSECTIONS SHALL REMAIN OPEN THROUGHOUT CONSTRUCTION, EXCEPT FOR ONE 2-DAY CLOSURE AT EACH INTERSECTION FOR UNDERGROUND SEWER WORK:

- INTERSECTION WITH REBERT PIKE
- INTERSECTION WITH ARNOLD AVENUE
- INTERSECTION WITH SOUTHERN VISTA DRIVE AND GREEN VISTA DRIVE

A SINGLE INTERSECTION CLOSURE IS PERMITTED AT ANY ONE TIME. THE CONTRACTOR SHALL GIVE 72-HOUR NOTICE TO THE ENGINEER PRIOR TO EACH CLOSURE.
A SCHOOL SPEED LIMIT SIGN (S5-H1-24) SHALL BE PRESENT AND VISIBLE AT ALL TIMES FOR TRAFFIC ENTERING THE SCHOOL ZONE ON ENON-XENIA ROAD. THE CONTRACTOR IS PERMITTED TO USE EXISTING, PROPOSED, OR TEMPORARY SIGNAGE TO MEET THIS REQUIREMENT.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

PORTABLE CHANGEABLE MESSAGE SIGNS

PORTABLE CHANGEABLE MESSAGE SIGNS ARE TO PROVIDE ADVANCED INFORMATION ABOUT UPCOMING TRAFFIC CONDITIONS OR DIVERSION ROUTING SCHEMES TO ROAD USERS. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN
24 SNMT

ROADWAYS FOR MAINTAINING TRAFFIC

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY:

ITEM 615	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	641 SQ. YD.
ITEM 615	ROADS FOR MAINTAINING TRAFFIC	LUMP SUM

DETOUR SIGNING

ALL SIGNS SHOWN IN THE DETOUR PLANS, PHASING PLANS, OR OTHERWISE USED FOR MAINTAINING TRAFFIC SHALL BE INCLUDED IN THE LUMP SUM BID ITEM 614 DETOUR SIGNING. ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR THE INSTALLATION, RELOCATION, AND REMOVAL OF THE SIGNS WILL BE PAID FOR UNDER THE LUMP SUM BID ITEM.

ITEM 614 - MAINTAINING TRAFFIC, MISC.: TRAFFIC SIGNAL ADJUSTMENT

THIS ITEM INCLUDES ANY LABOR, MATERIALS, OR EQUIPMENT NECESSARY TO MODIFY THE TRAFFIC SIGNAL AT ARNOLD AVENUE DURING CONSTRUCTION PHASES. THE WORK MAY INCLUDE, BUT IS NOT LIMITED TO, SHIFTING SIGNAL HEADS AND RADAR DETECTION UNITS, AND ADJUSTING PHASING AND TIMING OEPRATIONS. ONCE CONSTRUCTION IS COMPLETE AND THE FINAL TRAFFIC PATTERN HAS BEEN IMPLEMENTED THE CONTRACTOR SHALL ADJUST THE TRAFFIC SIGNAL TO CORRECT OPERATION. ALL WORK TO ADJUST THIS TRAFFIC SIGNAL SHALL BE INCLUDED IN THIS BID ITEM AT LUMP SUM.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 11 M. GAL

TRENCH PROTECTION AND OVERNIGHT TRENCH CLOSING

ANY TRENCH WITHIN THE ROADWAY GREATER THAN 24-IN DEEP SHALL BE BACKFILLED OR OTHERWISE PROTECTED FROM TRAFFIC IN ACCORDANCE WITH SCD MT-101.90 (CONDITION II) AT ALL TIMES. IN ADDITION, THE CONTRACTOR SHALL PLACE WORK ZONE PROTECTION (DRUMS OR PORTABLE BARRIER) SUCH THAT DRIVEWAY ACCESS IS NOT BLOCKED FOR MORE THAN ONE 12-HOUR WORK DAY.

NO DRIVEWAYS MAY BE BLOCKED OVERNIGHT. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED OR OTHERWISE PROTECTED AT THE DIRECTION OF THE ENGINEER.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

WINTERIZATION OF THE PROJECT

IF CONSTRUCTION EXTENDS MULTIPLE SEASON AND CANNOT CONTINUE DUE TO INCLEMENT WEATHER, OPEN TRENCHES SHALL BE CLOSED AND BACKFILLED AS SPECIFIED IN THE PLANS. ANY MILLED SECTIONS OF PAVEMENT WILL BE RESURFACED AT THE EXPENSE OF THE CONTRACTOR PRIOR TO SUSPENDING WORK FOR THE WINTER.

CALCULATED ATW
CHECKED JCH

MAINTENANCE OF TRAFFIC GENERAL NOTES

CLA-CR315-1.28

SEQUENCE OF CONSTRUCTION

PHASE 1: (NOT SHOWN IN PLANS)

1. CLOSE ENON-XENIA RD SOUTH OF REBERT PK. DETOUR TRAFFIC ACCORDING TO THE PHASE 1 DETOUR PLAN. THE INTERSECTION AT REBERT PIKE SHALL REMAIN ACTIVE AT ALL TIMES DURING THIS CONSTRUCTION PHASE.
2. PERFORM ALL WORK SOUTH OF REBERT PK, WHICH INCLUDES BUT IS NOT LIMITED TO, REMOVAL OF EXISTING STORM SEWER, INSTALLATION OF PROPOSED STORM SEWER, AND PLACEMENT OF ASPHALT CONCRETE UP TO THE INTERMEDIATE COURSE. PLACE THE SURFACE ASPHALT COURSE, PAVEMENT MARKINGS, AND SIGNING SOUTH OF STA. 215+40. PLACE TEMPORARY PAVEMENT MARKINGS NORTH OF STA. 215+40 IN ACCORDANCE WITH THE NEXT PHASE OF CONSTRUCTION.
3. INSTALL THE PROPOSED STORM SEWER FROM THE OUTFALL TO STRUCTURE D403 AT STA. 218+24. MAINTAIN DRAINAGE THROUGHOUT THE CONSTRUCTION PHASE, INCLUDING CONNECTION BETWEEN THE EXISTING 36" STORM SEWER AND THE PROPOSED STORM SEWER AT REBERT PK.
4. WHEN WORK IS COMPLETE, OPEN ENON-XENIA RD TO TRAFFIC.

PHASE 2: (NOT SHOWN IN PLANS)

1. MAINTAIN PEDESTRIAN TRAFFIC BY ROUTING THE PEDESTRIAN PATHWAY TO THE EAST SIDE OF ENON-XENIA RD, PROVIDING CROSSWALKS AT SOUTHERN VISTA DR AND THE SOUTH SCHOOL ENTRANCE.
2. INSTALL THE PROPOSED WATER MAIN USING THE EXISTING PARKING LANE AS A STAGING AREA FOR EQUIPMENT. AT DRIVEWAYS, BACKFILL THE TRENCH ONCE THE WATER MAIN HAS BEEN INSTALLED AND PLACE GRAVEL AT THE DRIVEWAY SURFACE UNTIL THE NEW DRIVE APRON IS CONSTRUCTED. ONE 12-FT LANE OF TRAFFIC SHALL REMAIN OPEN AT SOUTHERN VISTA DR AND ARNOLD AVE WHILE THE WATER MAIN IS INSTALLED ACROSS THE INTERSECTION, AND TRAFFIC SHALL BE MAINTAINED IN BOTH DIRECTIONS USING FLAGGERS.
3. AFTER THE WATER MAIN WORK IS COMPLETE, INSTALL A 3-FT WIDTH OF TEMPORARY PAVEMENT ON THE EAST SIDE OF ENON-XENIA RD.

PHASE 3:

1. MAINTAIN ONE, 10-FT NORTHBOUND LANE USING THE EXISTING NORTHBOUND LANE AND TEMPORARY PAVEMENT TO MAINTAIN NORTHBOUND TRAFFIC, AS SHOWN IN THE PHASE 3 TYPICAL SECTION. SOUTHBOUND TRAFFIC SHALL BE DETOURED ACCORDING TO THE PHASES 3 & 4 DETOUR PLAN. THIS PHASE ALSO INCLUDES TEMPORARY MODIFICATIONS TO THE TRAFFIC SIGNAL AT ARNOLD AVE.
2. REMOVE THE EXISTING WATER MAIN AND STORM SEWER AND INSTALL THE NEW STORM SEWER TRUNK LINE, CURB, SIDEWALK, AND DRIVEWAYS. DRAINAGE FLOW SHALL BE MAINTAINED AT ALL TIMES DURING THIS CONSTRUCTION PHASE. OPEN EXCAVATION SHALL BE FILLED BEFORE THE END OF THE DAY AND DRIVEWAYS SHALL BE CLOSED FOR NO LONGER THAN ONE WORKING DAY (7AM TO 7PM). INSTALL PROPOSED STORM SEWER FROM SOUTH TO NORTH AND PROVIDE INLET LEADS TO THE EDGE OF THE WORK ZONE. RE-INSTALLATION OF OHIO EDISON POLES SHALL OCCUR DURING THIS PHASE OF CONSTRUCTION.
3. ONCE WORK IS COMPLETE IN PHASE 3, TRANSITION MAINTENANCE OF TRAFFIC TO PHASE 4. TEMPORARY CROSSWALK AT SOUTHERN VISTA DR CAN BE REMOVED AFTER THE CONSTRUCTION OF THE PROPOSED SIDEWALK.

PHASE 4:

1. MAINTAIN ONE, 11-FT TO 13-FT NORTHBOUND LANE USING THE EXISTING PARKING LANE AND SOUTHBOUND LANE, AS SHOWN IN THE PHASE 4 TYPICAL SECTION. SOUTHBOUND TRAFFIC WILL BE DETOURED ACCORDING TO THE PHASES 3 & 4 DETOUR PLAN. AT LEAST ONE ENTRANCE TO THE SCHOOL SHALL REMAIN OPEN AT ALL TIMES. THIS PHASE ALSO INCLUDES TEMPORARY MODIFICATIONS TO THE TRAFFIC SIGNAL AT ARNOLD AVE.
2. REMOVE THE EXISTING 36" STORM SEWER FROM THE NORTH END OF THE PROJECT TO THE SOUTH END. DRAINAGE FLOW SHALL BE MAINTAINED AT ALL TIMES DURING THIS CONSTRUCTION PHASE.
3. INSTALL THE REMAINING INLETS AND STORM SEWER CONDUIT. WHEN ALL OF THE PROPOSED STORM SEWER IS INSTALLED, REMOVE THE TEMPORARY STORM SEWER CONNECTION AT REBERT PK.
4. CONSTRUCT ALL REMAINING WORK IN THE WORK ZONE INCLUDING CURB AND GUTTER AND ASPHALT PAVEMENT.
5. WHEN PHASE 4 WORK IS COMPLETE, PROVIDE ONE NORTHBOUND AND ONE SOUTHBOUND LANE OF TRAFFIC FOR PHASE 5. ADJUST THE TRAFFIC SIGNAL AT ARNOLD AVE TO PRE-CONSTRUCTION CONDITIONS.

PHASE 5:

1. MAINTAIN TWO LANES OF TRAFFIC AT ALL TIMES, ONE NORTHBOUND AND ONE SOUTHBOUND.
2. PLACE ASPHALT SURFACE COURSE, PERMANENT PAVEMENT MARKINGS, AND SIGNING NORTH OF STA. 215+40.
3. OPEN TRAFFIC TO THE NEW, PERMANENT CONDITION.

COORDINATION WITH GREENON LOCAL SCHOOLS

THE CONTRACTOR SHALL MAINTAIN FULL ACCESS TO AT LEAST ONE ENTRANCE ALONG ENON-XENIA ROAD TO THE GREENON K-12 BUILDING AT ALL TIMES THROUGHOUT CONSTRUCTION DURING SCHOOL DAYS. CLOSURE OF ANY SCHOOL ENTRANCES MUST BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE SCHOOL DISTRICT AND THE ENGINEER A MINIMUM OF 14 DAYS PRIOR TO ANY ENTRANCE CLOSURES.

ITEM 607 - FENCE, SNOW, AS PER PLAN

THIS ITEM INCLUDES ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, AND REMOVING A TEMPORARY FENCE IN THE LOCATIONS SPECIFIED BELOW:

STA. RANGE	OFF (FT)	SIDE	LENGTH (FT)	NOTES
STA. 218+47 TO STA. 232+34	30	LT	1283	AT EX. R/W
STA. 218+47 TO STA. 224+33	41	RT	499	6" BEHIND BACK OF EX. PATH
STA. 224+33 TO STA. 228+55	37	RT	355	6" BEHIND PROP. WALK
STA. 228+55 TO STA. 233+75	33	RT	407	6" BEHIND PROP. WALK
STA. 233+75 TO STA. 232+75	30	RT	200	AT EX. R/W
TOTAL CARRIED TO GENERAL SUMMARY			2744	

THE FENCE SHALL BE PLASTIC MATERIAL. THE FENCE SHALL BE INSTALLED AT LEAST 24 HOURS IN ADVANCE OF ANY PAVEMENT SAWING OR TRENCH ACTIVITIES IN THE IMMEDIATE AREA AND SHALL REMAIN ERECT UNTIL THE END OF PROJECT CONSTRUCTION OR AS DIRECTED BY THE ENGINEER. UPON PROJECT COMPLETION, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE FENCE.

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 20 HOURS

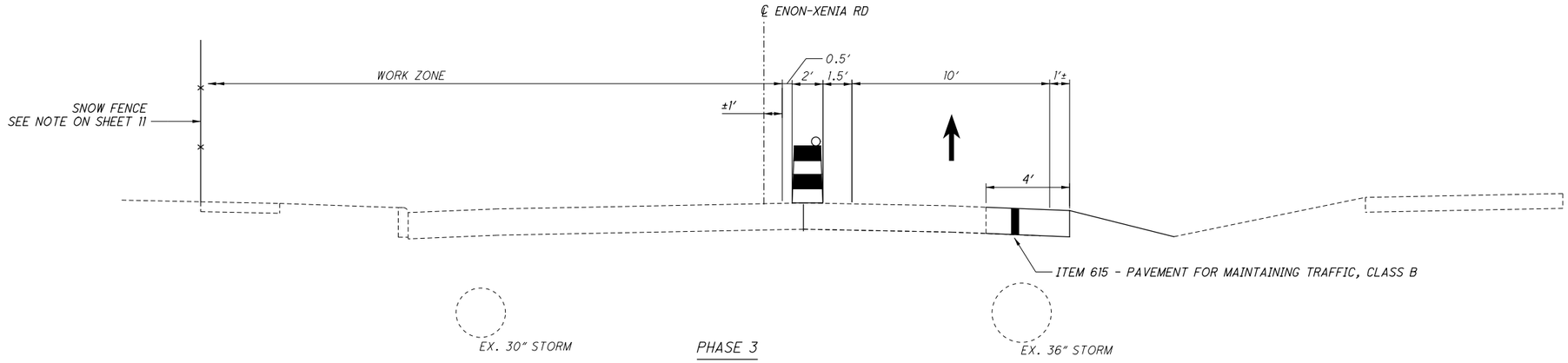
THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

CALCULATED ATW CHECKED JCH

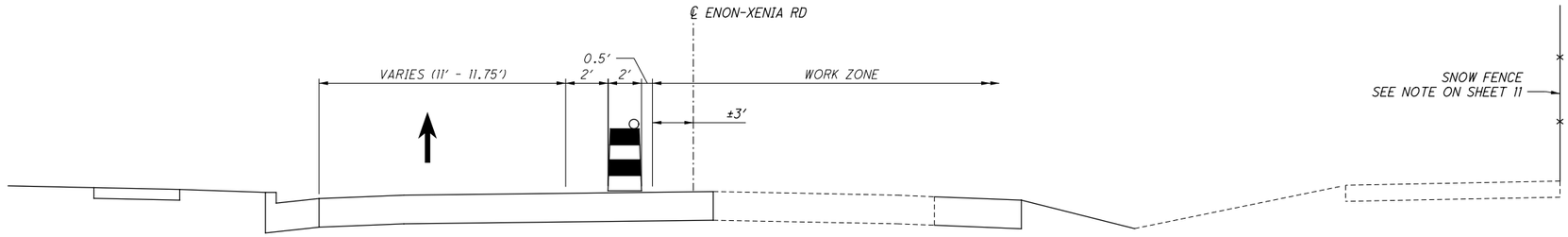
MAINTENANCE OF TRAFFIC GENERAL NOTES

CLA-CR315-1.28



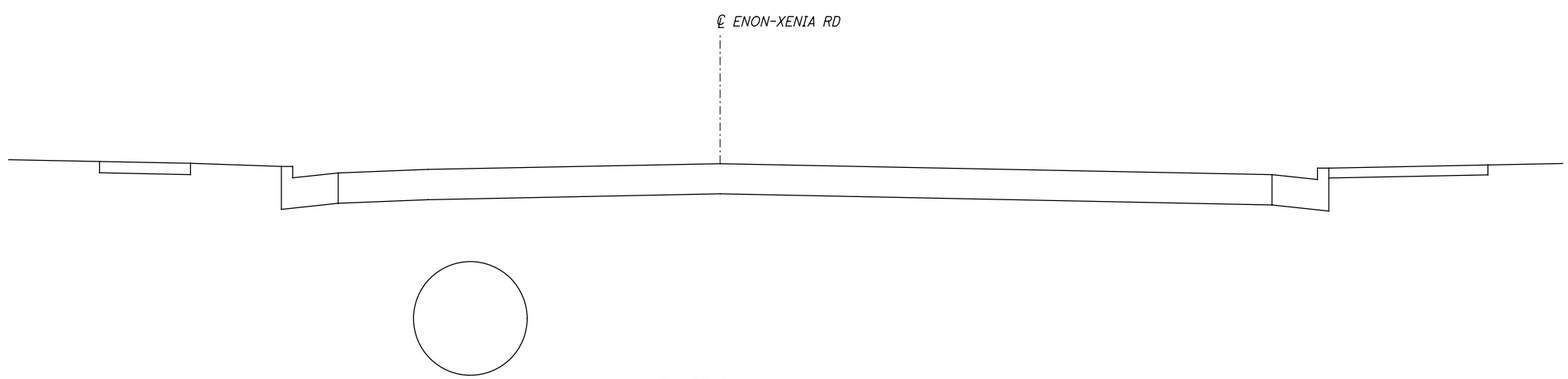
PHASE 3

STA. 218+50 TO 236+45



PHASE 4

STA. 218+50 TO 236+45



PHASE 5

STA. 218+50 TO 236+45

MAINTENANCE OF TRAFFIC TYPICAL SECTIONS

CLA-CR315-1.28

1

DETOUR

M4-8-12

ENON-XENIA RD

D3-1-48

2

DETOUR

M4-8-12

ENON-XENIA RD

D3-1-48

M5-1-12

3

DETOUR

M4-8-12

ENON-XENIA RD

D3-1-48

M5-1-12

4

DETOUR

M4-8-12

ENON-XENIA RD

D3-1-48

M6-1-12

5

DETOUR

M4-8-12

ENON-XENIA RD

D3-1-48

M6-1-12

6

DETOUR

M4-8-12

ENON-XENIA RD

D3-1-48

M6-3-12

7

ROAD CLOSED
2 MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3A-60

DETOUR

M4-10L-48

8

ROAD CLOSED
1 MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3A-60

DETOUR

M4-10R-48

9

ROAD CLOSED
1 MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3A-60

10

ROAD CLOSED

R11-2-48

11

ROAD CLOSED
LOCAL TRAFFIC ONLY

R11-3-66

12

DETOUR AHEAD

W20-2-36

13

END DETOUR

M4-8A-12

A

NORTH

M3-1-24

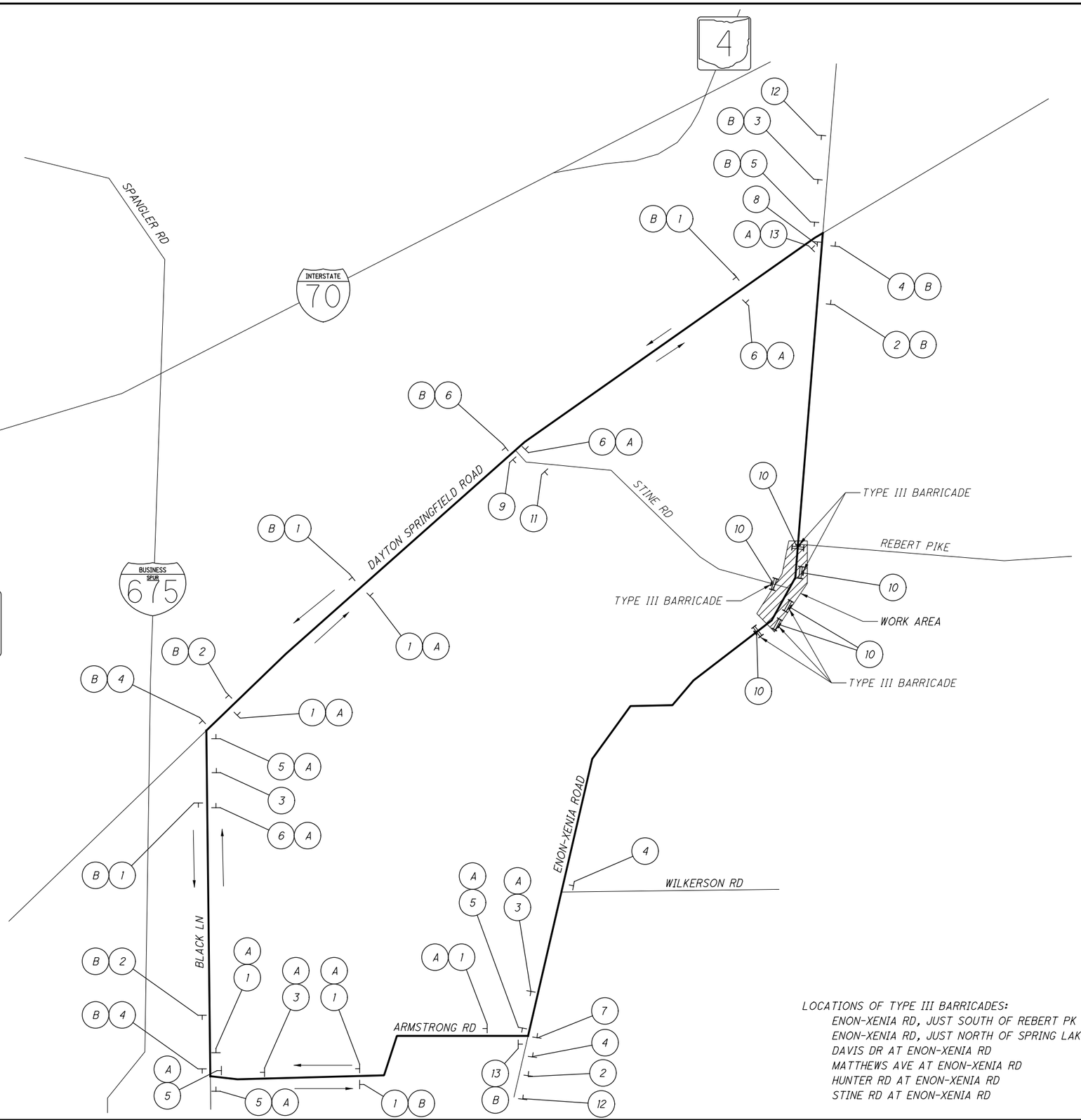
B

SOUTH

M3-3-24

ENON-XENIA PK

D3-1-48



LOCATIONS OF TYPE III BARRICADES:
ENON-XENIA RD, JUST SOUTH OF REBERT PK
ENON-XENIA RD, JUST NORTH OF SPRING LAKE CR
DAVIS DR AT ENON-XENIA RD
MATTHEWS AVE AT ENON-XENIA RD
HUNTER RD AT ENON-XENIA RD
STINE RD AT ENON-XENIA RD

CALCULATED CJR
CHECKED JCH

DETOUR MAP - PHASE ONE

CLA-CR315-1.28

13
138

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1

DETOUR

M4-8-12

ENON-XENIA RD

D3-1-48

2

DETOUR

M4-8-12

ENON-XENIA RD

D3-1-48

M5-1-12

3

DETOUR

M4-8-12

ENON-XENIA RD

D3-1-48

M5-1-12

4

DETOUR

M4-8-12

ENON-XENIA RD

D3-1-48

M6-1-12

5

DETOUR

M4-8-12

ENON-XENIA RD

D3-1-48

M6-1-12

6

DETOUR

M4-8-12

ENON-XENIA RD

D3-1-48

M6-3-12

7

ROAD CLOSED
2 MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3A-60

DETOUR

M4-10L-48

8

ROAD CLOSED
1 MILE AHEAD
LOCAL TRAFFIC ONLY

R11-3A-60

DETOUR

M4-10R-48

9

ROAD CLOSED
1 MILE AHEAD
LOCAL TRAFFIC ONLY

R11-3A-60

10

ROAD CLOSED

R11-2-48

11

ROAD CLOSED
LOCAL TRAFFIC ONLY

R11-3-66

12

DETOUR AHEAD

W20-2-36

13

END DETOUR

M4-8A-12

ENON-XENIA RD

D3-1-48

A

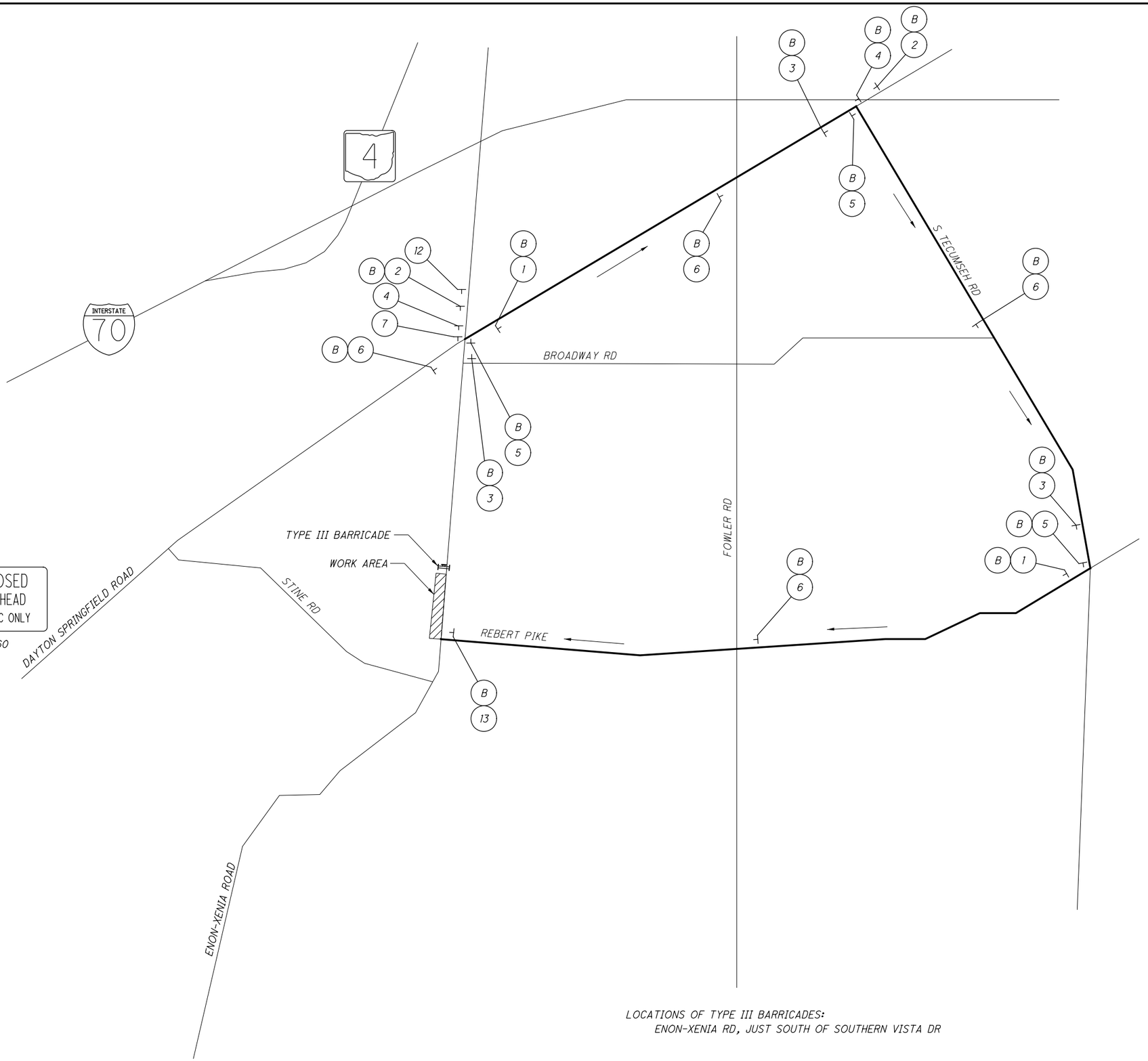
NORTH

M3-1-24

B

SOUTH

M3-3-24



LOCATIONS OF TYPE III BARRICADES:
ENON-XENIA RD, JUST SOUTH OF SOUTHERN VISTA DR

CALCULATED CJR
CHECKED JCH

DETOUR MAP - PHASES THREE AND FOUR

CLA-CR315-1.28

LEGEND

AREA TO BE CONSTRUCTED

PAVEMENT FOR MAINTAINING TRAFFIC (CONSTRUCTED IN PHASE 2)

REMOVAL OF PAVEMENT MARKING

DRUMS

DIRECTION OF TRAFFIC

TYPE III BARRICADE

NOTE: WZPM START STA. 215+41 PER SEQUENCE OF CONSTRUCTION

WZCL-1

WZEL-1

Sta. 218+71.64

SNOW FENCE (TYP.)

ENON-XENIA RD

REBERT PK

MATCH LINE STA. 222+00

℄ ENON-XENIA RD

WZEL-2A

WZEL-2

WZEL-3

R-301

NOTE: WZPM START STA. 215+41 PER SEQUENCE OF CONSTRUCTION

W20-1-24 STA. 212+00

ROAD WORK AHEAD

TYPE A WARNING LIGHT

R6-1L-36

ONE WAY

R3-1-24

ARNOLD AVE

SNOW FENCE (TYP.)

MATCH LINE STA. 222+00

ENON-XENIA RD

MATCH LINE STA. 227+00 SEE SHEET 16

℄ ENON-XENIA RD

WZEL-3

WZEL-2

WZCW-1

DO NOT ENTER

R5-1-30

WRONG WAY

R5-1A-30

ONE WAY

R6-1R-36

R-301

R3-2-24

ARNOLD SCHOOL ENTRANCE

NOTES:

1. ANY OPEN TRENCH GREATER THAN 24" DEEP WITHIN THE WORK ZONE SHALL BE PROTECTED IN ACCORDANCE WITH MT-101.90.
2. DRIVEWAY ACCESS DURING THE REMOVAL OF THE EXISTING STORM SEWER AND WATER MAIN AND INSTALLATION OF NEW STORM SEWER SHALL BE CLOSED FOR NO MORE THAN ONE WORKING DAY.

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED CJR CHECKED JCH

MAINTENANCE OF TRAFFIC PHASE THREE
STA. 217+00 TO STA. 227+00

CLA-CR315-1.28

15
138

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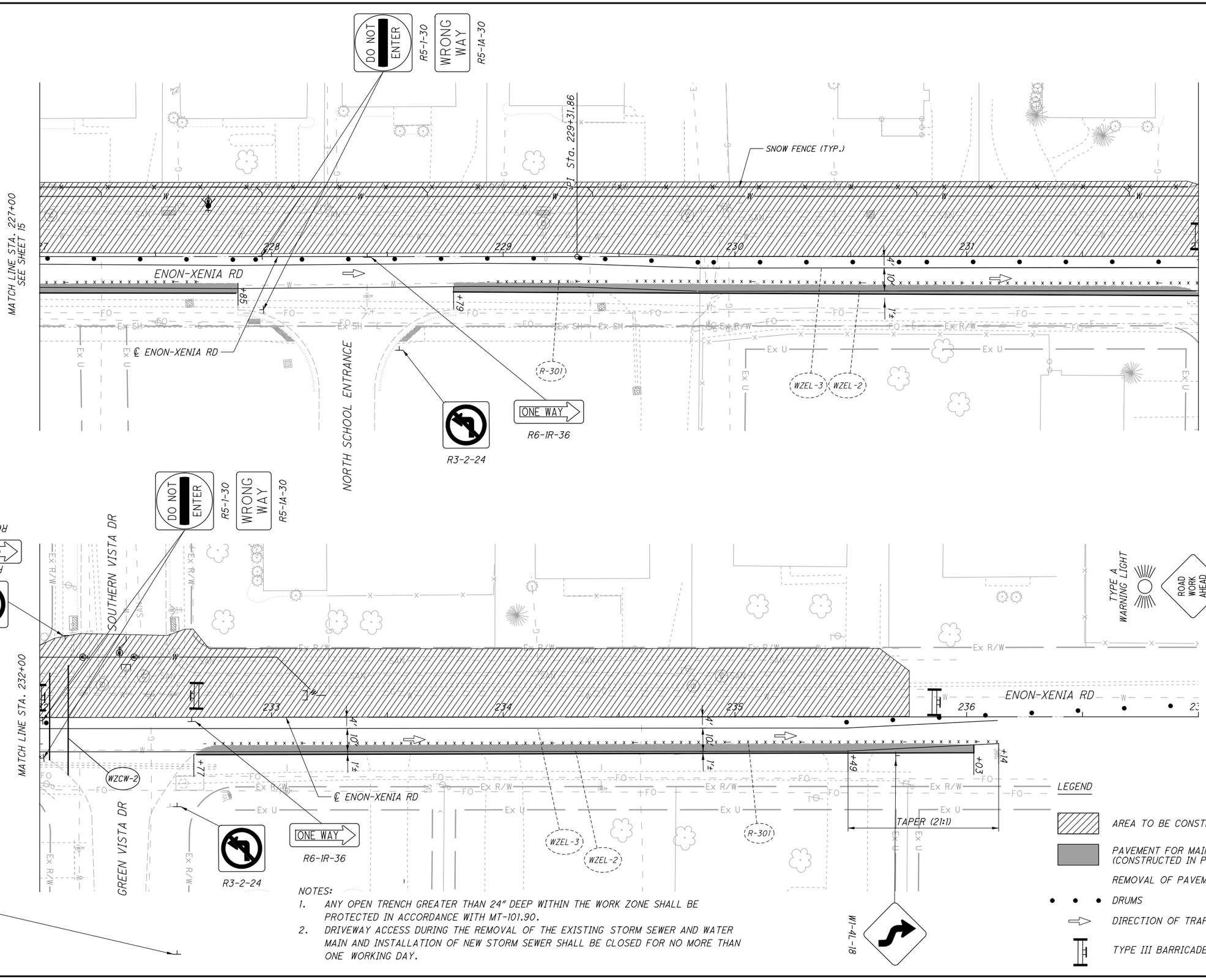
MAINTENANCE OF TRAFFIC PHASE THREE
STA. 227+00 TO STA. 237+00

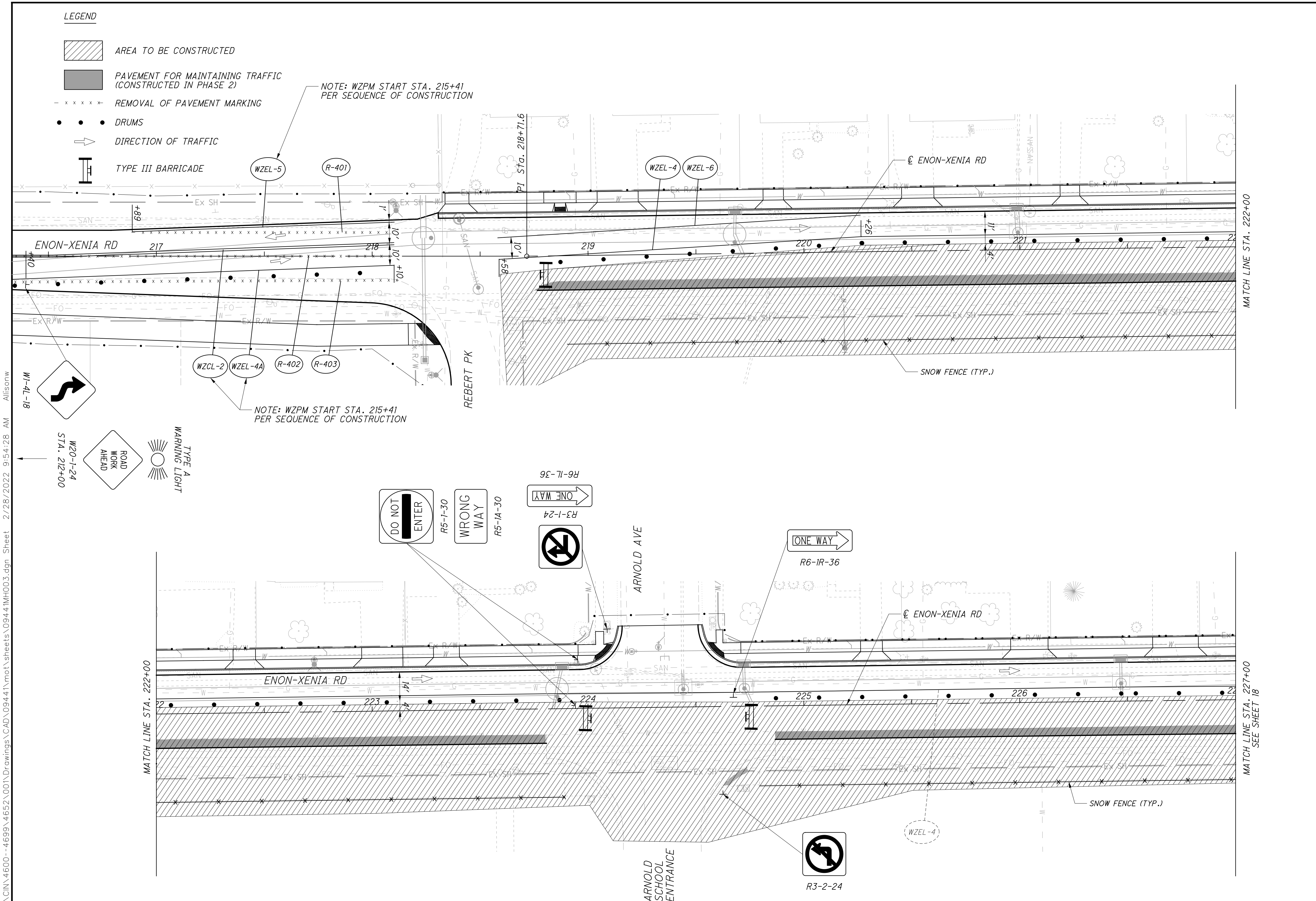
CLA-CR315-1.28

CALCULATED CJR
CHECKED JCH

HORIZONTAL SCALE IN FEET
0 10 20 40



NOTES:
1. ANY OPEN TRENCH GREATER THAN 24" DEEP WITHIN THE WORK ZONE SHALL BE PROTECTED IN ACCORDANCE WITH MT-101.90.
2. DRIVEWAY ACCESS DURING THE REMOVAL OF THE EXISTING STORM SEWER AND WATER MAIN AND INSTALLATION OF NEW STORM SEWER SHALL BE CLOSED FOR NO MORE THAN ONE WORKING DAY.



HORIZONTAL SCALE IN FEET: 0 10 20 40

CALCULATED: CJR

CHECKED: JCH

MAINTENANCE OF TRAFFIC PHASE FOUR
STA. 217+00 TO STA. 227+00

CLA-CR315-1.28

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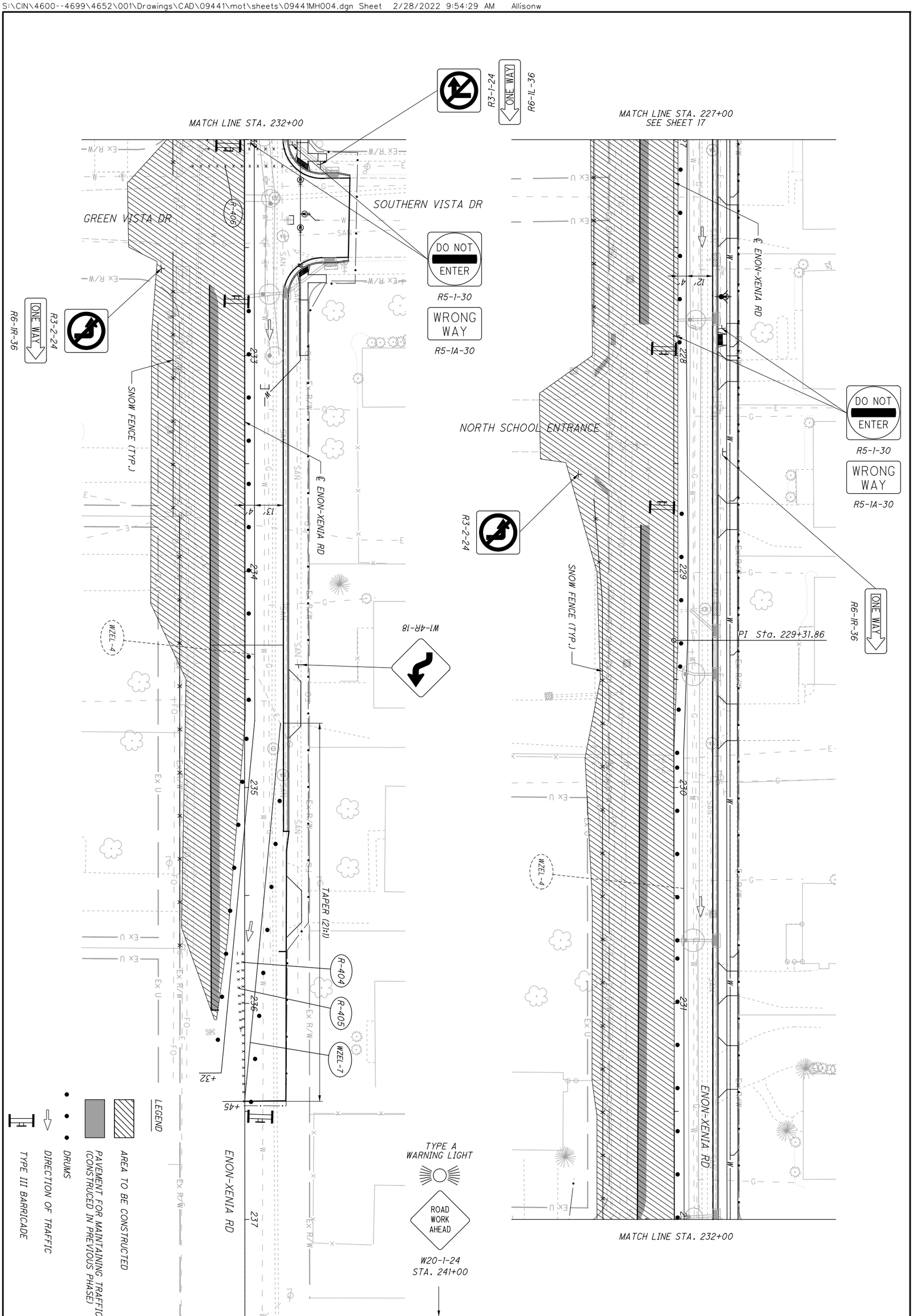

18 / 138	CLA-CR315-1.28	MAINTENANCE OF TRAFFIC PHASE FOUR STA. 227+00 TO STA. 237+00	CALCULATED CJR / CHECKED JCH	0 10 20 40 HORIZONTAL SCALE IN FEET

SHEET NUM.													PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
7	8	9	23	25	26	27	28	29	30	74	84	114	CMAQ	STBG						
																			ROADWAY	
															201	11000	LS		CLEARING AND GRUBBING	
			12,307								801		7,320	5,788	202	23000	13,108	SY	PAVEMENT REMOVED	
			7,238										7,238		202	30000	7,238	SF	WALK REMOVED	
			1,656										1,656		202	32000	1,656	FT	CURB REMOVED	
			205										205		202	32500	205	FT	CURB AND GUTTER REMOVED	
				106										106	202	38000	106	FT	GUARDRAIL REMOVED	
				6	2								5	3	202	58000	8	EACH	MANHOLE REMOVED	
				16	6								12	10	202	58100	22	EACH	CATCH BASIN REMOVED	
				12										12	SPECIAL	20270000	12	FT	FILL AND PLUG EXISTING CONDUIT, 2"	9
					3,225								1,506	1,719	SPECIAL	20270000	3,225	FT	FILL AND PLUG EXISTING CONDUIT, 4"	9
				1,450									1,440	10	SPECIAL	20270000	1,450	FT	FILL AND PLUG EXISTING CONDUIT, 6"	9
				47	8								55		SPECIAL	20270000	55	FT	FILL AND PLUG EXISTING CONDUIT, 8"	9
				259	20									279	SPECIAL	20270000	279	FT	FILL AND PLUG EXISTING CONDUIT, 10"	9
				52	58								58	52	SPECIAL	20270000	110	FT	FILL AND PLUG EXISTING CONDUIT, 12"	9
				6	73								79		SPECIAL	20270000	79	FT	FILL AND PLUG EXISTING CONDUIT, 18"	9
				55	81								87	49	SPECIAL	20270000	136	FT	FILL AND PLUG EXISTING CONDUIT, 24"	9
				818	361								1,179		SPECIAL	20270000	1,179	FT	FILL AND PLUG EXISTING CONDUIT, 30"	9
				2,416	278								1,156	1,538	SPECIAL	20270000	2,694	FT	FILL AND PLUG EXISTING CONDUIT, 36"	9
				604										604	SPECIAL	20270000	604	FT	FILL AND PLUG EXISTING CONDUIT, 42"	9
				1,652									226	1,426	SPECIAL	20270000	1,652	FT	FILL AND PLUG EXISTING CONDUIT, 48	9
				104	165								165	104	202	75101	269	FT	FENCE REMOVED FOR STORAGE, AS PER PLAN	8
				2	1								3		202	75610	3	EACH	VALVE BOX REMOVED	
										3,296			1,691	1,605	203	10000	3,296	CY	EXCAVATION	
										611			353	258	203	20000	611	CY	EMBANKMENT	
	300												150	150	203	98000	300	CY	ROADWAY, MISC.: HYDROEXCAVATION	8
			16,535								703		10,451	6,787	204	10000	17,238	SY	SUBGRADE COMPACTION	
8													4	4	204	45000	8	HOUR	PROOF ROLLING	
1,723													726	997	204	13000	1,723	CY	EXCAVATION OF SUBGRADE	
1,723													726	997	204	30010	1,723	CY	GRANULAR MATERIAL, TYPE B	
8													4	4	206	20000	8	HOUR	TEST ROLLING	
				2										2	606	26150	2	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
				2,208	6,510								8,718		608	10000	8,718	SF	4" CONCRETE WALK	
				1,274	949								1,635	588	608	52000	2,223	SF	CURB RAMP	
												10	3	7	623	38500	10	EACH	MONUMENT ASSEMBLY	
												86	16	70	623	40500	86	EACH	REFERENCE MONUMENT	
															878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	
																			EROSION CONTROL	
	4								4					8	601	21050	8	SY	TIED CONCRETE BLOCK MAT WITH TYPE I UNDERLAYMENT	
						26								26	601	32100	26	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
		20												20	601	32200	20	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
2													1	1	659	00100	2	EACH	SOIL ANALYSIS TEST	
975													293	682	659	00301	975	CY	TOPSOIL, AS PER PLAN	7
8,786													2,657	6,129	659	10001	8,786	SY	SEEDING AND MULCHING, AS PER PLAN	7
439													132	307	659	14000	439	SY	REPAIR SEEDING AND MULCHING	
439													132	307	659	15000	439	SY	INTER-SEEDING	
1.23													0.37	0.86	659	20000	1.23	TON	COMMERCIAL FERTILIZER	
1.82													0.55	1.27	659	31000	1.82	ACRE	LIME	
49													15	34	659	35000	49	MGAL	WATER	
		2,750												2,750	670	00710	2,750	SY	DITCH EROSION PROTECTION MAT, TYPE A	
															832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
															832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
															832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
													23,100	53,900	832	30000	77,000	EACH	EROSION CONTROL	
																			DRAINAGE	
						17.1								17.1	602	20000	17.1	CY	CONCRETE MASONRY	
									6,401				2,928	3,473	605	14000	6,401	FT	6" BASE PIPE UNDERDRAINS	
									210				117	93	611	00510	210	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
		20												20	611	01400	20	FT	6" CONDUIT, TYPE E	
		30												30	611	01500	30	FT	6" CONDUIT, TYPE F	

CALCULATED ATW
CHECKED JCH

GENERAL SUMMARY

CLA-CR315-1.28

19
138

SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
9	23	27	28	29	30	84	94	101	102			CMAQ	STBG						
20			14	444	53							408	123	611	04400	531	FT	12" CONDUIT, TYPE B	
			108	132	145							210	175	611	04600	385	FT	12" CONDUIT, TYPE C	
			61	86	24								171	611	04900	171	FT	12" CONDUIT, TYPE D	
				93								36	57	611	05900	93	FT	15" CONDUIT, TYPE B	
			11										11	611	06100	11	FT	15" CONDUIT, TYPE C	
			77		36							36	77	611	07400	113	FT	18" CONDUIT, TYPE B	
			106		38							38	106	611	07600	144	FT	18" CONDUIT, TYPE C	
					175							175		611	07900	175	FT	18" CONDUIT, TYPE D	
			58	124								11	171	611	10400	182	FT	24" CONDUIT, TYPE B	
			24	20								24	20	611	13400	44	FT	30" CONDUIT, TYPE B	
					54							54		611	16400	54	FT	36" CONDUIT, TYPE B	
					73							73		611	20900	73	FT	48" CONDUIT, TYPE B	
				128	29							157		611	22400	157	FT	54" CONDUIT, TYPE B	
				562								562		611	23800	562	FT	60" CONDUIT, TYPE B	
			568	1,008								418	1,158	611	26200	1,576	FT	72" CONDUIT, TYPE B	
			354	353								144	563	611	26200	707	FT	72" CONDUIT, TYPE B, 707.75	
				123								123		611	53102	123	FT	43" X 68" CONDUIT, TYPE B, 706.04	
		8	15									23		611	98150	23	EACH	CATCH BASIN, NO. 3	
		2											2	611	98230	2	EACH	CATCH BASIN, NO. 4	
			1									1		611	98370	1	EACH	CATCH BASIN, NO. 6	
		13	7									8	12	611	98470	20	EACH	CATCH BASIN, NO. 2-2B	
		2											2	611	98510	2	EACH	CATCH BASIN, NO. 2-3	
		9	8									11	6	611	99574	17	EACH	MANHOLE, NO. 3	
		4	1									1	4	611	99654	5	EACH	MANHOLE ADJUSTED TO GRADE	
		2	3									5		611	99661	5	EACH	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN	9
		5	1									4	2	611	99690	6	EACH	MANHOLE, MISC.: MH-4 OR MH-5	9
					2								2	611	99710	2	EACH	PRECAST REINFORCED CONCRETE OUTLET	
																		PAVEMENT	
	706											667	39	254	01000	706	SY	PAVEMENT PLANING, ASPHALT CONCRETE	
	1,961					20						1,144	837	301	46000	1,981	CY	ASPHALT CONCRETE BASE, PG64-22	
	2,756					50						1,672	1,134	304	20000	2,806	CY	AGGREGATE BASE	
	1,709					17						1,078	648	407	20000	1,726	GAL	NON-TRACKING TACK COAT	
	670					11						431	250	441	50000	681	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
	781					7						503	285	441	50300	788	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	
						453						421	32	452	10010	453	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
	1,634											1,634		609	12000	1,634	FT	COMBINATION CURB AND GUTTER, TYPE 2	
	1,687											1,687		609	23000	1,687	FT	COMBINATION CURB AND GUTTER, TYPE 4	
																		WATER WORK	
									3			3		638	07800	3	EACH	6" GATE VALVE AND VALVE BOX	
									6			6		638	07900	6	EACH	8" GATE VALVE AND VALVE BOX	
								20				20		638	06200	20	FT	POLYETHYLENE ENCASEMENT	
									3			1	2	638	10200	3	EACH	6" FIRE HYDRANT	
									2			2		638	10700	2	EACH	FIRE HYDRANT REMOVED AND DISPOSED OF	
									2			1	1	638	10400	2	EACH	FIRE HYDRANT ADJUSTED TO GRADE	
								16	56			63	9	SPECIAL	63811602	72	FT	6" WATER MAIN DIP AND FITTINGS (CLARK COUNTY STANDARD NOTES)	
								1,526				1,526		SPECIAL	63811604	1,526	FT	8" WATER MAIN DIP AND FITTINGS (CLARK COUNTY STANDARD NOTES)	
								110				55	55	SPECIAL	63811604	110	FT	8" WATER MAIN DIP AND FITTINGS (VILLAGE OF ENON)	101
									7			6	1	SPECIAL	63820500	7	EACH	VALVE BOX ADJUSTED TO GRADE (VILLAGE OF ENON)	101
									3			3		SPECIAL	63820548	3	EACH	6" CUTTING IN SLEEVE	
									3			3		SPECIAL	63820692	3	EACH	8" X 6" TAPPING SLEEVE, VALVE AND VALVE BOX (CLARK COUNTY STANDARD NOTES)	
									3			3		SPECIAL	63820750	3	EACH	6" FIRE HYDRANT (CLARK COUNTY STANDARD NOTES)	
									3			1	2	SPECIAL	63820760	3	EACH	FIRE HYDRANT REMOVED AND DISPOSED OF (VILLAGE OF ENON)	101
								85				85		SPECIAL	63820766	85	FT	3/4" COPPER WATER SERVICE LINE (CLARK COUNTY STANDARD NOTES)	
								3				3		SPECIAL	63820878	3	EACH	CUT AND PLUG EXISTING 6" WATER LINE	
									7			2	5	SPECIAL	63820902	7	EACH	SERVICE BOX ADJUSTED TO GRADE (VILLAGE OF ENON)	101
																		SANITARY SEWER	
							90					56	34	611	01800	90	FT	8" CONDUIT, TYPE B, 748.01	
							259						259	611	03100	259	FT	10" CONDUIT, TYPE B, 707.45	
							70						70	611	04400	70	FT	12" CONDUIT, TYPE B, 707.45	

CALCULATED ATW
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GENERAL SUMMARY

CLA-CR315-1.28

20
138

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SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
10	11	24	31	32	33	94						CMAQ	STBG						
						87							87	611	97400	87	FT	CONDUIT, MISC.: 2" CONDUIT, TYPE B, 748.02	94
						4						1	3	611	99574	4	EACH	MANHOLE, NO. 3	
						2							2	611	99575	2	EACH	MANHOLE, NO. 3, AS PER PLAN	94
						1							1	611	99690	1	EACH	MANHOLE, MISC.: CONNECT TO EXISTING SAN. MANHOLE	94
																		TRAFFIC CONTROL	
				75	14							52	37	621	00100	89	EACH	RPM	
			516.2									291.5	224.7	630	03100	516.2	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
			1										1	630	08600	1	EACH	SIGN POST REFLECTOR	
			293.5									183.5	110	630	80100	293.5	SF	SIGN, FLAT SHEET	
			42									24	18	630	84900	42	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
			2									1	1	630	85101	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION, AS PER PLAN	8
			26									14	12	630	86002	26	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
				0.89								0.22	0.67	644	00100	0.89	MILE	EDGE LINE, 4"	
				0.69	0.11							0.48	0.32	644	00300	0.8	MILE	CENTER LINE	
				387								387		644	00400	387	FT	CHANNELIZING LINE, 8"	
					193							153	40	644	00500	193	FT	STOP LINE	
				1,042								816	226	644	00620	1,042	FT	CROSSWALK LINE, 12"	
				154								154		644	00630	154	FT	CROSSWALK LINE, 24"	
				533								437	96	644	00700	533	FT	TRANSVERSE/DIAGONAL LINE	
					151							113	38	644	00900	151	SF	ISLAND MARKING	
					2							1	1	644	01100	2	EACH	SCHOOL SYMBOL MARKING, 72"	
					12							12		644	01300	12	EACH	LANE ARROW	
																		MAINTENANCE OF TRAFFIC	
	2,744											2,744		607	30001	2,744	FT	FENCE, SNOW, AS PER PLAN	11
	20											20		614	11110	20	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
														614	12420	LS		DETOUR SIGNING	
														614	18002	LS		MAINTAINING TRAFFIC, MISC.: TRAFFIC SIGNAL ADJUSTMENT	10
24												24		614	18600	24	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN	
		0.1											0.1	614	21000	0.1	MILE	WORK ZONE CENTER LINE, CLASS I	
		1.25										1.07	0.18	614	22000	1.25	MILE	WORK ZONE EDGE LINE, CLASS I, 4"	
			189									189		614	27010	189	FT	WORK ZONE CROSSWALK LINE, CLASS I, 12"	
														615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
641												641		615	25000	641	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	
11												3	8	616	10000	11	MGAL	WATER	
		0.47										0.33	0.14	642	30030	0.47	MILE	REMOVAL OF PAVEMENT MARKING	
																		INCIDENTALS	
														614	11000	LS		MAINTAINING TRAFFIC	
												6	6	619	16010	12	MNTH	FIELD OFFICE, TYPE B	
														623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
														624	10000	LS		MOBILIZATION	

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GENERAL SUMMARY

CLA-CR315-1.28

21
138

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PAVEMENT CALCULATIONS

ALIGNMENT	START STA	END STA	LENGTH	AVG. WIDTH	CADD-GENERATED SURFACE AREA	202 PAVEMENT REMOVED	202 WALK REMOVED	202 CURB REMOVED	202 CURB AND GUTTER REMOVED	204 SUBGRADE COMPACTION	254 PAVEMENT PLANING, ASPHALT CONCRETE	301 ASPHALT CONCRETE BASE, PG64-22	304 AGGREGATE BASE	407 NON-TRACKING TACK COAT	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	609 COMBINATION CURB AND GUTTER, TYPE 2	609 COMBINATION CURB AND GUTTER, TYPE 4	DESCRIPTION
			FT	FT	SY	SY	SF	FT	FT	SY	SY	CY	CY	GAL	CY	CY	FT	FT	
ENON-XENIA RD	200+96.70	201+11.70	15.00	23.33	38.89						38.9			5.4	1.6	1.9			RESURFACING
ENON-XENIA RD	201+11.70	218+31.49	1719.79	24.00	4585.36	4653.9				5250.4		659.9	875.1	504.4	191.1	222.9			FULL DEPTH CORRIDOR SOUTH OF REBERT PK
ENON-XENIA RD	215+37.07	218+31.49	294.42	5.46	178.76					244.2		27.1	40.7	19.7	7.4	8.7			FULL DEPTH TAPER (RT)
ENON-XENIA RD	216+79.01	218+31.49	152.48	2.84	48.20					82.1		7.9	13.7	5.3	2.0	2.3			FULL DEPTH TAPER (LT)
ENON-XENIA RD	203+46.67	218+99.84	1321.67	10.00	1465.56					146.9			24.5	80.6	61.1	71.2			SHARED USE PATH
ENON-XENIA RD	218+31.49	234+24.01	1592.52	41.00	7217.73	5518.2	6760.1	1559.7		8633.3		1002.5	1438.9	794.0	300.7	350.9	1304.6	1542.6	FULL DEPTH CORRIDOR NORTH OF REBERT PK
ENON-XENIA RD	234+24.01	235+75.98	151.97	25.50	430.59						430.6			60.3	17.9	20.9			RESURFACING
ENON-XENIA RD	234+24.01	234+68.12	44.11	6.91	33.87	10.5	219.5			53.5		4.7	8.9	3.7	1.4	1.6			FULL DEPTH WIDENING (RT) WITH CURB
ENON-XENIA RD	234+24.01	235+20.32	96.31	2.00	21.40	34.0		96.3		64.2		3.0	10.7	2.4	0.9	1.0			FULL DEPTH WIDENING (LT) WITH CURB
ENON-XENIA RD	234+68.12	235+75.98	107.86	3.62	43.39	24.8	258.1			67.4		6.9	11.2	4.8	1.8	2.1			FULL DEPTH WIDENING (RT) WITH NO CURB
ENON-XENIA RD	235+20.32	235+75.98	55.66	3.43	21.19	20.7				33.6		3.4	5.6	2.3	0.9	1.0			FULL DEPTH WIDENING (LT) WITH NO CURB
ENON-XENIA RD	235+75.98	23645.31	69.33	30.70	236.50						236.5			33.1	9.9	11.5			RESURFACING
HUNTER RD	102+16.67	102+59.92	43.25	93.53	449.48	449.5				468.7		63.1	78.1	49.4	18.7	21.8			FULL DEPTH ALONG HUNTER RD
MATTHEWS AVE	111+82.01	112+03.07	21.06	42.36	99.13	99.1				108.5		14.1	18.1	10.9	4.1	4.8			FULL DEPTH ALONG MATTHEWS AVE
STINE RD	120+12.23	120+34.85	22.62	63.14	158.70	158.7				168.8		22.4	28.1	17.5	6.6	7.7			FULL DEPTH ALONG STINE RD
DAVIS AVE	132+42.33	132+86.03	43.70	33.68	163.53	163.5				183.0		23.4	30.5	18.0	6.8	7.9			FULL DEPTH ALONG DAVIS AVE
REBERT PK	142+16.65	142+56.53	39.88	44.94	199.14	179.8				216.9		28.3	36.1	21.9	8.3	9.7	52.3		FULL DEPTH ALONG REBERT PK
ARNOLD AVE	150+18.00	150+37.95	19.95	43.72	96.92	90.3				114.7		13.5	19.1	10.7	4.0	4.7		62.7	FULL DEPTH ALONG ARNOLD
ENON-XENIA RD	224+33.11	224+33.11	35.00	51.03	198.46	328.9			103.1	229.6		27.6	38.3	21.8	8.3	9.6	110.0		FULL DEPTH ALONG ARNOLD SCHOOL ENTRANCE
ENON-XENIA RD	228+32.57	228+32.57	35.00	39.02	151.76	273.4			102.3	182.9		21.1	30.5	16.7	6.3	7.4	109.8		FULL DEPTH ALONG NORTH SCHOOL ENTRANCE
SOUTHERN VISTA DR	170+18.00	170+48.56	30.56	41.29	140.19	130.8				167.4		19.5	27.9	15.4	5.8	6.8		81.7	FULL DEPTH ALONG SOUTHERN VISTA DR
GREEN VISTA DR	163+65.99	163+93.00	27.01	31.94	95.87	170.7				119.9		13.3	20.0	10.5	4.0	4.7	57.6		FULL DEPTH ALONG GREEN VISTA DR
TOTALS CARRIED TO GENERAL SUMMARY						12,307	7,238	1,656	205	16,535	706	1,961	2,756	1,709	670	781	1,634	1,687	

CLA-CR315-1.28

SHEET NO.	REFERENCE NO.	PHASE	STATION		SIDE	614	614	614	614	642
						WORK ZONE CENTER LINE, CLASS I	WORK ZONE EDGE LINE, CLASS 1, 4" (WHITE)	WORK ZONE EDGE LINE, CLASS 1, 4" (YELLOW)	WORK ZONE CROSSWALK LINE, CLASS 1, 12"	REMOVAL OF PAVEMENT MARKING
			FROM	TO		MILE	MILE	MILE	FT	MILE
15	WZCL-1	2-3	215+41	218+12	C	0.051				
15	WZEL-1	2-3	215+41	218+12	L		0.051			
15	WZEL-2A	2-3	215+41	218+12	R		0.051			
15	WZEL-2	3	218+74	236+14	R		0.330			
15	WZEL-3	3	218+74	236+14	R			0.329		
15	WZCW-1	2-4	224+02	224+10	C				105.19	
16	WZCW-2	2-3	232+04	232+12	C				84.27	
15	R-301	3	218+72	236+14	R					0.290
17	WZCL-2	4	215+41	218+10	L	0.051				
17	WZEL-4A	4	215+73	218+10	R		0.045			
17	WZEL-4	4	218+58	236+32	R/L		0.345			
17	WZEL-5	4	216+89	218+10	L		0.023			
17	WZEL-6	4	218+58	220+26	L			0.041		
18	WZEL-7	4	234+70	236+47	L			0.033		
17	R-401	4	216+90	218+12	L					0.023
17	R-402	4	215+41	218+12	C					0.063
17	R-403	4	215+74	218+12	R					0.057
18	R-404	4	235+76	236+46	R					0.013
18	R-405	4	235+76	236+13	R					0.007
18	R-406	4	232+04	232+12	C					0.016
TOTALS CARRIED TO GENERAL SUMMARY						0.10	0.85	0.40	189	0.47

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CALCULATED ATW
CHECKED JCH

MAINTENANCE OF TRAFFIC GENERAL NOTES

CLA-CR315-1.28

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	SPECIAL FILL AND PLUG EXISTING CONDUIT, 2"	SPECIAL FILL AND PLUG EXISTING CONDUIT, 6"	SPECIAL FILL AND PLUG EXISTING CONDUIT, 8"	SPECIAL FILL AND PLUG EXISTING CONDUIT, 10"	SPECIAL FILL AND PLUG EXISTING CONDUIT, 12"	SPECIAL FILL AND PLUG EXISTING CONDUIT, 18"	SPECIAL FILL AND PLUG EXISTING CONDUIT, 24"	SPECIAL FILL AND PLUG EXISTING CONDUIT, 30"	SPECIAL FILL AND PLUG EXISTING CONDUIT, 36"	SPECIAL FILL AND PLUG EXISTING CONDUIT, 42"	SPECIAL FILL AND PLUG EXISTING CONDUIT, 48"	202 GUARDRAIL REMOVED	202 MANHOLE REMOVED	202 CATCH BASIN REMOVED	202 FENCE REMOVED FOR STORAGE, AS PER PLAN	202 VALVE BOX REMOVED	606 ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	608 4" CONCRETE WALK	608 CURB RAMP
		FROM	TO		FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	EA	EA	FT	EA	EA	SF	SF
35	R-1	200+90.75	202+37.85	LT											143		1						
35	R-2	201+00.12	203+60.20	RT											265			1					
35	R-3	202+37.85	206+16.70	LT											375			1					
35	R-4	202+77.43	203+29.97	LT/RT		10																	
35	R-5	203+60.20	205+42.68	RT									183					1					
35	R-45	202+51.22	202+81.03	RT/LT	12																		
35	R-46	200+96.70	201+38.19	RT												50							
35	R-47	200+96.70	201+52.18	LT												56							
35	CR-1	203+31.59	203+46.67	RT																			107
35	GR-1	203+31.59	204+49.54	RT																	1		
35	GR-2	203+31.59	201+51.04	LT																	1		
36	R-6	205+42.68	206+75.77	RT									134					1					
36	R-7	206+16.70	210+03.37	LT										405				1					
36	R-8	205+99.81	206+16.70	LT/RT							49												
36	R-9	206+75.77	211+33.76	RT									463					1					
36	R-10	210+03.37	212+28.93	LT										199				1					
36	CR-2	205+80.02	205+95.97	RT																			134
36	CR-3	206+21.55	206+40.68	RT																			169
37	R-11	211+33.76	213+44.00	RT									215					1					
37	R-12	211+59.29	212+50.30	RT															104				
37	R-13	212+28.93	218+73.00	LT											643		1						
37	R-14	213+53.62 (CR 315)	130+54.1 (DAVIS AVE)	LT				259									1						
37	R-15	213+44.00	213+97.91	RT									54					1					
37	R-16	213+97.91	218+86.58	RT									489					1					
37	CR-4	213+42.89	213+56.52	RT																			93
37	CR-5	213+88.25	214+00.31	RT																			85
38	R-17	218+25.00		RT																	1		
38	R-18	218+40.34	218+49.15	LT/RT			34										1						
38	R-19	218+76.61	233+15.37	LT		1440																	
38	R-20	218+73.00	220+99.10	LT			9			6	6				226								
38	R-21	218+86.58	219+83.61	RT									97					1					
38	R-22	219+83.61	219+81.70	RT					7														
38	R-23	219+83.61	221+32.35	RT									149					1					
38	CR-6	218+16.74	218+31.89	RT																			115
38	CR-7	218+67.73	218+89.84	RT																			198
38	CR-8	218+79.84	218+94.84	LT																			99
38	W-1	218+44.81	223+95.77	LT																		2208	
39	R-24	220+36.90	220+39.21	LT			4											1					
39	R-25	220+99.10	224+45.76	LT								345					1						
39	R-26	221+32.35	224+98.18	RT									364					1					
39	R-27	224+00.73	224+45.75	LT					45									1					
39	R-28	224+45.76	229+17.83	LT								473					1						
39	R-29	224+52.96		LT																	1		
39	R-30	224+98.18	227+64.64	RT									268					1					
39	CR-9	223+88.79	224+09.16	RT																			167
39	CR-10	223+95.77	224+12.84	LT																			107
TOTALS CARRIED TO GENERAL SUMMARY					12	1450	47	259	52	6	55	818	2416	604	1652	106	6	16	104	2	2	2208	1274

NOTE: ALL STATIONS ARE WITH RESPECT TO ℄ ENON-XENIA RD. UNLESS NOTED OTHERWISE

CALCULATED ATW
CHECKED JCH

ROADWAY SUBSUMMARY

CLA-CR315-1.28

25
138

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	SPECIAL FILL AND PLUG EXISTING CONDUIT, 4" FT	SPECIAL FILL AND PLUG EXISTING CONDUIT, 8" FT	SPECIAL FILL AND PLUG EXISTING CONDUIT, 10" FT	SPECIAL FILL AND PLUG EXISTING CONDUIT, 12" FT	SPECIAL FILL AND PLUG EXISTING CONDUIT, 18" FT	SPECIAL FILL AND PLUG EXISTING CONDUIT, 24" FT	SPECIAL FILL AND PLUG EXISTING CONDUIT, 30" FT	SPECIAL FILL AND PLUG EXISTING CONDUIT, 36" FT	SPECIAL FILL AND PLUG EXISTING CONDUIT, 42" FT	SPECIAL FILL AND PLUG EXISTING CONDUIT, 48" FT	202 MANHOLE REMOVED EA	202 CATCH BASIN REMOVED EA	202 FENCE REMOVED FOR STORAGE, AS PER PLAN FT	202 VALVE BOX REMOVED EA	608 4" CONCRETE WALK SF	608 CURB RAMP SF
39	CR-11	224+55.27	224+71.15	LT																94
39	CR-12	224+60.68	224+78.97	RT																100
39	W-2	224+71.15	232+10.09	LT															2920	
39	W-3	224+78.97	224+86.58	RT															46	
40	R-31	227+55.47	227+55.47	LT		4										1				
40	R-32	227+64.64	229+42.29	RT								178				1				
40	R-33	229+17.13	229+17.13	LT				4								1				
40	R-34	229+17.83	232+78.64	LT							361				1					
40	R-35	229+42.29	230+43.05	RT								101								
40	CR-13	227+86.13	228+11.61	RT																183
40	CR-14	228+53.50	228+66.21	RT																62
40	CR-15	227+85.13	228+00.13	LT																103
40	W-4	228+66.21	232+01.02	RT															2219	
41	R-36	230+37.81	231+87.22	RT													165			
41	R-37	231+10.36	231+10.36	LT		4										1				
41	R-38	232+47.00	233+27.59	RT						81										
41	R-39	232+67.15	232+67.15	LT				27								1				
41	R-40	232+97.81	233+10.32	LT				27								1				
41	R-41	232+96.32		LT											1					
41	R-42	233+08.41		LT														1		
41	R-43	232+78.64	233+51.63	LT					73											
41	CR-16	232+01.02	232+17.56	RT																89
41	CR-17	232+01.39	232+15.09	LT																80
41	CR-18	232+57.62	232+74.22	LT																97
41	CR-19	232+51.48	232+66.85	RT																141
41	W-5	232+66.85	235+40.10	RT															1222	
41	W-6	232+74.22	232+99.67	LT															103	
97	R-44	131+23.10 (DAVIS AVE.)	131+43.11 (DAVIS AVE.)	RT			20													
35	R-48	200+96.70	218+33.77	RT	1719															
38	R-49	218+33.77	233+09.44	LT	1506															
TOTALS CARRIED TO GENERAL SUMMARY					3225	8	20	58	73	81	361	278	0	0	2	6	165	1	6510	949

NOTE: ALL STATIONS ARE WITH RESPECT TO ℄ ENON-XENIA RD. UNLESS NOTED OTHERWISE

CALCULATED ATW CHECKED JCH

ROADWAY SUBSUMMARY

CLA-CR315-1.28

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	601 ROCK CHANNEL PROTECTION, TYBE B WITH FILTER	602 CONCRETE MASONRY	611 CATCH BASIN, NO. 3	611 CATCH BASIN, NO. 4	611 CATCH BASIN, NO. 2-2B	611 CATCH BASIN, NO. 2-3	611 MANHOLE, NO. 3	611 MANHOLE ADJUSTED TO GRADE	611 MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN	611 MANHOLE, MISC.; MANHOLE, NO. 4 OR MANHOLE, NO. 5
					CY	CY	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
35	D-101	201+12		RT	25.65	17.1								
35	D-102	202+65		RT							1			
35	D-103	202+77		LT								1		
35	D-104	204+08		LT								1		
36	D-201	205+42		RT						1				
36	D-202	206+18		RT							1			
36	D-203	206+19		RT							1			
36	D-204	206+76		RT						1				
36	D-205	207+82		RT					1					
36	D-206	208+43		RT					1					
36	D-207	209+50		RT					1					
36	D-208	207+62		LT								1		
36	D-301	210+27		RT										1
36	D-302	210+29		RT					1					
36	D-303	210+33		LT				1						
37	D-304	211+66		RT							1			
37	D-305	211+66		RT					1					
37	D-306	211+89		LT				1						
37	D-307	212+49		RT					1					
37	D-308	212+84		RT					1					
37	D-309	213+74		RT							1			
37	D-310	213+74		LT					1					
37	D-311	213+58		RT					1					
37	D-312	213+74		RT							1			
37	D-313	213+89		RT					1					
37	D-314	214+10		RT					1					
37	D-315	212+26		LT								1		
38	D-401	216+01		RT										1
38	D-402	216+01		RT					1					
38	D-403	218+24		LT							1			
38	D-404	218+24		RT					1					
38	D-405	219+68		LT			1							
38	D-406	219+68		LT							1			
38	D-407	219+82		RT			1							
39	D-501	221+01		RT			1							
39	D-502	220+99		LT										1
39	D-503	220+99		LT			1							
39	D-504	233+79		RT			1							
39	D-505	223+86		LT							1			
39	D-506	223+88		LT			1							
39	D-507	224+44		LT										1
39	D-508	224+87		RT			1							
39	D-509	224+73		LT										1
39	D-510	224+72		LT			1							
39	D-511	221+05		LT									1	
39	D-512	224+04		LT									1	
TOTALS CARRIED TO GENERAL SUMMARY					26	17.1	8	2	13	2	9	4	2	5

DRAINAGE SUBSUMMARY

CALCULATED PER
CHECKED AWA

CLA-CR315-1.28

DRAINAGE SUBSUMMARY

CALCULATED PER
CHECKED AWA

611

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	12" CONDUIT, TYPE B FT	12" CONDUIT, TYPE C FT	12" CONDUIT, TYPE D FT	15" CONDUIT, TYPE C FT	18" CONDUIT, TYPE B FT	18" CONDUIT, TYPE C FT	24" CONDUIT, TYPE B FT	30" CONDUIT, TYPE B FT	72" CONDUIT, TYPE B FT	72" CONDUIT, TYPE B, 707.75 FT	CATCH BASIN, NO. 3 EACH	CATCH BASIN, NO. 6 EACH	CATCH BASIN, NO. 2-2B EACH	MANHOLE, NO. 3 EACH	MANHOLE ADJUSTED TO GRADE EACH	MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN EACH	MANHOLE, MISC.; MANHOLE, NO. 4 OR MANHOLE, NO. 5 EACH
40	D-601	226+47		LT																	1
40	D-602	226+47		LT											1						
40	D-603	226+49		RT											1						
40	D-604	227+83		LT											1						
40	D-605	227+83		LT														1			
40	D-606	227+84		RT											1						
40	D-607	229+28		LT											1						
40	D-608	229+48		LT											1						
40	D-609	229+48		LT														1			
40	D-610	229+35		RT											1						
40	D-611	227+05		LT																1	
41	D-701	230+23		RT													1				
41	D-702	230+71		LT														1			
41	D-703	230+71		LT											1						
41	D-704	230+71		RT											1						
41	D-705	231+52		RT													1				
41	D-706	231+99		LT														1			
41	D-707	231+98		LT											1						
41	D-708	232+00		RT											1						
41	D-709	232+09		RT													1				
41	D-710	232+16		LT											1						
41	D-711	232+27		LT														1			
41	D-712	232+53		RT													1				
41	D-713	232+57		LT											1						
41	D-714	232+71		LT											1						
41	D-715	232+81		LT														1			
41	D-716	232+75		RT											1						
41	D-717	232+75		RT														1			
41	D-718	233+63		RT													1				
41	D-719	234+50		RT													1				
41	D-720	229+55		RT												1					
41	D-721	233+00		LT														1			
41	D-722	229+79		LT																1	
42	D-801	234+75		RT													1				
42	D-802	234+82		LT															1		
42	D-803	234+94		LT																1	
35	D-102 TO D-101	202+65	201+12	RT									158.9								
35-36	D-202 TO D-102	206+18	202+65	RT										353.9							
36	D-203 TO D-202	206+19	206+18	RT								14									
36	D-201 TO D-203	205+42	206+19	RT					76.8												
36	D-204 TO D-203	206+76	206+18	RT							57.5										
36	CAP TO D-203	206+19	206+19	RT								9.8									
36	D-205 TO D-204	207+82	206+76	RT						106.1											
36	D-206 TO D-205	208+43	207+82	RT			60.8														
36	D-207 TO D-206	209+50	208+43	RT		107.6															
36	D-301 TO D-202	210+27	206+18	RT									409.5								
36	EX. TO D-303	210+22	210+33	RT				10.9													
36	D-302 TO D-301	210+29	210+27	RT	14.2																
TOTALS CARRIED TO GENERAL SUMMARY					14	108	61	11	77	106	58	24	568	354	15	1	7	8	1	3	1

CLA-CR315-1.28

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	611 12" CONDUIT, TYPE B FT	12" CONDUIT, TYPE C FT	12" CONDUIT, TYPE D FT	15" CONDUIT, TYPE B FT	24" CONDUIT, TYPE B FT	30" CONDUIT, TYPE B FT	54" CONDUIT, TYPE B FT	60" CONDUIT, TYPE B FT	72" CONDUIT, TYPE B FT	72" CONDUIT, TYPE B, 707.75 FT	43" X 68" CONDUIT, TYPE B, 706.04 FT
36	D-303 TO D-301	210+33	210+27	LT - RT					30.6						
36-37	D-304 TO D-301	211+66	210+27	RT									140.0		
37	D-305 TO D-304	211+66	211+66	RT	16.2										
37	D-306 TO D-304	211+89	211+66	LT - RT					36.4						
37	D-309 TO D-304	213+74	211+66	RT										208.6	
37	D-310 TO D-309	213+74	213+74	LT - RT	28.9										
37	D-312 TO D-309	213+74	213+74	RT					35.6						
37	D-307 TO D-305	212+49	211+66	RT			86.00								
37	D-308 TO D-307	212+84	212+49	RT		35.2									
37	D-311 TO D-312	213+58	213+74	RT	15.9										
37	D-313 TO D-312	213+89	213+74	RT	14.6										
37	D-314 TO D-313	214+10	213+89	RT		31.4									
37	CAP TO D-312	213+74	213+74	RT					10.2						
37-38	D-401 TO D-309	216+01	213+74	RT									226.5		
38	D-402 TO D-401	216+01	216+01	RT	13										
38	D-403 TO D-401	218+24	216+01	LT - RT									223.7		
38	D-404 TO D-403	218+24	218+24	RT - LT				56.6							
38	CAP TO D-403	218+24	218+24	LT						19.7					
38	D-406 TO D-403	219+68	218+24	LT										144.2	
38	D-405 TO D-406	219+68	219+68	LT	10.9										
38	D-407 TO D-406	219+82	219+68	RT - LT				36.1							
38-39	D-502 TO D-406	220+99	219+68	LT									131.3		
39	D-501 TO D-502	221+01	220+99	RT - LT	33.4										
39	D-503 TO D-502	220+99	220+99	LT					10.9						
39	D-505 TO D-502	223+86	220+99	LT									286.5		
39	D-504 TO D-505	233+79	223+86	RT - LT	34.5										
39	D-506 TO D-505	223+88	223+86	LT	10.7										
39	D-507 TO D-505	224+44	223+86	LT								58.5			
39	D-509 TO D-507	224+73	224+44	LT								28.3			
39	D-508 TO D-509	224+87	224+73	RT - LT	36.7										
39	D-510 TO D-509	224+72	224+73	LT	10.6										
39-40	D-601 TO D-509	226+47	224+73	LT								174.6			
40	D-602 TO D-601	226+47	226+47	LT	10.6										
40	D-603 TO D-601	226+49	226+47	RT - LT	33.7										
40	D-605 TO D-601	227+83	226+47	LT								136.3			
40	D-604 TO D-605	227+83	227+83	LT	9.4										
40	D-606 TO D-605	227+84	227+83	RT - LT	34.9										
40	D-609 TO D-605	229+48	227+83	LT								164.2			
40	D-608 TO D-609	229+48	229+48	LT	10.5										
40	D-607 TO D-608	229+28	229+48	LT	20										
40	EX. TO D-607	229+18	229+28	LT		15.3									
40	D-610 TO D-609	229+35	229+48	RT - LT	35.8										
40-41	D-702 TO D-609	230+71	229+48	LT											123.3
41	D-703 TO D-702	230+71	230+71	LT	10.8										
40-41	D-720 TO D-610	229+55	229.35	RT	19.4										
41	D-704 TO D-702	230+71	230+71	RT - LT	33.5										
41	D-701 TO D-704	230+23	230+71	RT		50.1									
41	D-706 TO D-702	231+99	230+71	LT							128				
TOTALS CARRIED TO GENERAL SUMMARY					444	132	86	93	124	20	128	562	1008	353	123

CALCULATED PER
CHECKED AWA

DRAINAGE SUBSUMMARY

CLA-CR315-1.28

STORM CONDUIT SUBSUMMARY (CONTINUED)

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	611 12" CONDUIT, TYPE B FT	611 12" CONDUIT, TYPE C FT	611 12" CONDUIT, TYPE D FT	611 18" CONDUIT, TYPE B FT	611 18" CONDUIT, TYPE C FT	611 18" CONDUIT, TYPE D FT	611 36" CONDUIT, TYPE B FT	611 48" CONDUIT, TYPE B FT	611 54" CONDUIT, TYPE B FT
41	D-707 TO D-706	231+88	231+99	LT	10.5								
41	D-710 TO D-707	232+16	231+98	LT		27.9							
41	D-708 TO D-706	232+00	231+99	RT - LT	33.8								
41	D-705 TO D-708	231+52	232+00	RT		49.5							
41	D-709 TO D-708	232+09	232+00	RT		20.8							
41	D-711 TO D-706	232+27	231+99	LT									28.5
41	CAP TO D-711	232+27	232+27	RT - LT							53.5		
41	D-715 TO D-711	232+81	232+27	LT								44.4	
41	D-714 TO D-715	232+71	232+81	LT	8.2								
41	D-713 TO D-714	232+57	232+71	LT		24.6							
41	D-716 TO D-715	232+75	232+81	RT - LT				36.3					
41	D-717 TO D-716	232+75	232+75	RT					10.7				
41	D-712 TO D-717	232+53	232+75	RT		22.4							
41	D-718 TO D-717	233+63	232+75	RT						87.4			
41	D-719 TO D-718	234+50	233+63	RT						87.4			
41	D-721 TO D-715	233+00	232+81	LT								28.6	
42	D-801 TO D-719	234+75	234+50	RT					27.5				
97	N/A	131+21	131+45	RT			24.0						
		(DAVIS AVE)											
TOTALS CARRIED TO GENERAL SUMMARY					53	145	24	36	38	175	54	73	29

UNDERDRAIN SUBSUMMARY

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	601 TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT SY	605 6" BASE PIPE UNDERDRAINS FT	611 6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS FT	611 PRECAST REINFORCED CONCRETE OUTLET EACH
92	UD-1	201+12	203+60	RT	1.8	251.1	3.5	1
92	UD-2	201+11	203+59	LT	1.8	244.7	4	1
92	UD-3	203+64	205+43	RT		179.1	6.3	
92	UD-4	203+64	206+18	LT		254.2	18.1	
92	UD-5	205+43	206+14	RT		79.3		
92	UD-6	206+42	206+76	RT		41.3	6.9	
92	UD-7	206+18	210+28	LT		408.4		
92	UD-8	206+76	208+41	RT		165.1		
92	UD-9	208+43	209+49	RT		105.9	5	
92	UD-10	209+50	210+27	RT		77.5	6.7	
92	UD-11	210+29	211+64	RT		137.7	5.6	
92	UD-12	210+33	211+86	LT		149.9	11	
92	UD-13	211+66	212+47	RT		82.1	4.8	
92	UD-14	211+89	213+72	LT		180.6	11.4	
92	UD-15	212+49	213+55	RT		112.6	3.3	
92	UD-16	213+74	216+56	LT		282	11.2	
92	UD-17	214+11	216+00	RT		180.9	8.4	
92	UD-18	216+01	216+55	RT		53.8	2.5	
92-93	UD-19	216+64	219+68	LT		304.8	1.5	
92	UD-20	216+62	218+26	RT		182.1	7.2	
92-93	UD-21	218+62	219+82	RT		136.4	1.4	
93	UD-22	219+72	220+96	LT		118.3	5.3	
93	UD-23	221+04	223+76	RT		106.3	6.2	
93	UD-24	221+02	223+85	LT		278.6	5.1	
93	UD-25	221+04	223+76	RT		263.8	8.2	
93	UD-26	224+55	226+46	RT		201.5	7.9	
93	UD-27	224+55	226+44	LT		213.4	6.2	
93	UD-28	226+53	227+81	RT		120.9	8.5	
93	UD-29	226+50	227+80	LT		125.3	4.9	
93	UD-30	227+86	229+45	LT		152.8	6.0	
93	UD-31	228+48	229+52	RT		118.0	4.3	
93	UD-32	229+58	230+67	RT		106.2	4.2	
93	UD-33	229+51	230+68	LT		112.6	5	
93	UD-34	230+74	232+20	RT		150.2	5.7	
93	UD-35	230+74	232+14	LT		145.6	3.9	
93	UD-36	232+74	235+67	LT		288.5	4.4	
93	UD-37	232+78	235+71	RT		289.1	5.3	
TOTALS CARRIED TO GENERAL SUMMARY					4	6401	210	2

NOTE: SEE UNDERDRAIN PLANS FOR BENDS AND TEES.

CALCULATED PER
CHECKED AWA

DRAINAGE SUBSUMMARY

CLA-CR315-1.28

SIGNING SUBSUMMARY

CALCULATED ATW
CHECKED JCH

REF. NO.	SHEET	STA.	SIDE	CODE	SIZE (INCHES)	630 SIGN, FLAT SHEET	630 GROUND MOUNTED SUPPORT, NO. 3 POST	630 SIGN POST REFLECTOR	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION, AS PER PLAN
						SF	FT	EA	EA
S-1	107	201+10	LT	OM-3R-12	36X12	3.0	11.9		
S-2	107	203+35	LT	R9-3-18	18X18	2.3	11.4		
S-3	107	203+37	RT	D3-1-48	48X12	4.0	14.5		
				D3-1-48	48X12	4.0			
				R1-1-30	30X30	6.3			
S-4	107	205+40	RT	W3-5-36	36X36	9.0	14.1		
S-5	107	206+05	LT	R9-3-18	18X18	2.3	11.4		
S-6	107	206+52	LT	R9-3-18	18X18	2.3	11.4		
S-7	107	206+47	RT	D3-1-48	48X12	4.0	14.5		
				D3-1-48	48X12	4.0			
				R1-1-30	30X30	6.3			
S-8	108	210+28	LT	OM2-2V-6	12X24	2.0	10.9		
S-9	108	210+41	RT	R2-1-24	24X30	5.0	12.4		
S-10	108	210+41	LT	R2-1-24	24X30	5.0	12.4		
S-11	108	212+29	LT	OM2-2V-6	12X24	2.0	10.9		
S-12	108	213+25	RT	S4-5-36	36X36	9.0	14.1	1	
S-13	108	213+46	LT	R9-3-18	18X18	2.3	11.4		
S-14	108	213+91	RT	D3-1-48	48X12	4.0	14.5		
				D3-1-48	48X12	4.0			
				R1-1-30	30X30	6.3			
S-15	108	213+98	LT	R9-3-18	18X18	2.3	11.4		
S-16	108	214+45	RT	S1-1-30	36X36	9.0	13.0		
				W16-9P-24	24X12	2.0			
S-17	108	217+27	LT	R2-1-24	24X30	5.0	12.4		
S-18	108	217+77	RT						1
S-19	108	217+87	LT	S5-3-24	24X30	5.0	12.4		
S-20	108	218+25	LT	R9-3-18	18X18	2.3	11.4		
S-21	108	218+57	LT	W1-7-48	48X24	8.0	23.7		
S-22	108	218+69	RT	D3-1-48	48X12	4.0	14.5		
				D3-1-48	48X12	4.0			
				R1-1-30	30X30	6.3			
S-23	108	218+95	LT	S1-1-36	36X36	9.0	13.0		
				W16-7PL-24	24X12	2.0			
S-24	108	218+98	RT	S1-1-36	36X36	9.0	13.0		
				W16-7PL-24	24X12	2.0			
S-25	108	219+98	LT	R3-H8BA-30	30X30	6.3	12.4		
S-26	108	219+98	RT	R3-9CP-30	30X12	2.5	13.0		
				R3-9B-24	24X36	6.0			
S-27	109	222+88	LT	R3-9CP-30	30X12	2.5	13.0		
				R3-9B-24	24X36	6.0			
S-28	109	222+97	RT	R3-H8BH-36	36X30	7.5	12.4		
S-29	109	227+53	LT	R3-H8BH-36	36X30	7.5	12.4		
S-30	109	227+85	RT	S1-1-36	36X36	9.0	13.0		
				W16-7PL-24	24X12	2.0			
S-31	109	227+99	LT	S1-1-36	36X36	9.0	13.0		
				W16-7PL-24	24X12	2.0			
S-32	109	228+61	LT	R9-3-18	18X18	2.3	11.4		
S-33	109	228+60	RT	R1-1-30	36X36	6.3	12.4		
S-34	109	229+56	LT	R3-H8BA-30	30X30	6.3	12.4		
SUBTOTAL						231.5	425.3	1	1

REF. NO.	SHEET	STA.	SIDE	CODE	SIZE (INCHES)	630 SIGN, FLAT SHEET	630 GROUND MOUNTED SUPPORT, NO. 3 POST	630 SIGN POST REFLECTOR	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION, AS PER PLAN
						SF	FT	EA	EA
S-35	110	230+08	RT	S5-3-24	24X30	5.00	12.37		
S-36	110	230+12	LT						1
S-37	110	231+01	RT	R3-H8BH-36	36X30	7.5	12.4		
S-38	110	231+88	RT	R2-1-24	24X30	5.0	12.4		
S-39	110	232+14	LT	D3-1-48	48X12	4.0	13.5		
				R1-1-30	30X30	6.3			
S-40	110	232+56	RT	D3-1-48	48X12	4.0	14.5		
				D3-1-48	48X12	4.0			
				R1-1-30	30X30	6.3			
S-41	110	233+27	LT	S1-1-30	36X36	9.0	13.0		
				W16-9P-24	24X12	2.0			
S-42	110	234+85	LT	S4-5-36	36X36	9.0	12.9		
SUBTOTAL						62.0	90.9	0	1
TOTALS CARRIED TO GENERAL SUMMARY						293.5	516.2	1	2

REF. NO.	SHEET	STA.	SIDE	630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
				EA	EA
R-101	107	201+10	LT	1	1
R-102	107	203+37	RT	3	1
R-103	107	205+40	RT	1	1
R-104	107	206+47	RT	3	1
R-105	108	210+28	LT	1	1
R-106	108	210+41	RT	1	1
R-107	108	210+41	RT	1	1
R-108	108	212+29	LT	1	1
R-109	108	213+91	RT	3	1
R-110	108	214+20	RT	1	1
R-111	108	217+27	LT	1	1
R-125	108	217+87	LT	1	1
R-112	108	218+57	LT	1	2
R-113	108	218+62	RT	3	1
R-114	108	218+85	RT	3	1
R-115	108	218+85	RT	1	1
R-116	109	223+95	LT	3	1
R-124	109	228+60	RT	1	1
R-117	109	229+38	RT	2	1
R-118	109	229+56	LT	2	1
R-119	110	230+08	RT	1	1
R-120	110	231+88	RT	1	1
R-121	110	232+14	LT	2	1
R-122	110	232+56	RT	3	1
R-123	110	234+85	LT	1	1
TOTALS CARRIED TO GENERAL SUMMARY				42	26

CLA-CR315-1.28

SHEET NO.	REFERENCE NO.	ALIGNMENT	STATION		SIDE	644									621
						EDGE LINE, 4"	CENTER LINE	CHANNELIZING LINE, 8"	STOP LINE	CROSSWALK LINE, 12"	CROSSWALK LINE, 24"	TRANSVERSE/DIAGONAL LINE	SCHOOL SYMBOL MARKING, 72"	LANE ARROW	RPM
			FROM	TO		MILE	MILE	FT	FT	FT	FT	FT	EACH	EACH	EACH
107	CL-1	ENON-XENIA RD.	200+97	202+60	C		0.03								5
107	CL-2	ENON-XENIA RD.	203+36	205+88	C		0.05								7
107	CL-3	ENON-XENIA RD.	206+72	209+44	C		0.05								7
108	CL-4	ENON-XENIA RD.	210+18	213+46	C		0.06								9
108	CL-5	ENON-XENIA RD.	214+06	217+97	C		0.07								5
108	CL-6	ENON-XENIA RD.	215+41	217+97	R		0.05								4
108	CL-7	ENON-XENIA RD.	218+98	219+98	R		0.02								2
108	CL-8	ENON-XENIA RD.	219+48	219+98	C		0.01								3
109	CL-9	ENON-XENIA RD.	222+97	223+97	C		0.02								2
109	CL-10	ENON-XENIA RD.	222+97	223+47	R		0.01								3
109	CL-11	ENON-XENIA RD.	224+30	224+30	R		0.00								
109	CL-12	ENON-XENIA RD.	224+73	227+81	R		0.06								4
109	CL-13	ENON-XENIA RD.	226+25	227+81	C		0.03								5
109	CL-14	ENON-XENIA RD.	228+34	228+34	R		0.00								
109	CL-15	ENON-XENIA RD.	228+81	231+50	R		0.05								4
109	CL-16	ENON-XENIA RD.	229+56	232+00	C		0.05								6
110	CL-17	ENON-XENIA RD.	232+72	236+45	C		0.07								5
110	CL-18	ENON-XENIA RD.	232+72	235+62	R		0.06								4
107	EL-1	ENON-XENIA RD.	200+97	209+58	L	0.16									
107	EL-2	ENON-XENIA RD.	200+97	202+98	R	0.05									
107	EL-3	ENON-XENIA RD.	203+30	206+16	R	0.06									
107	EL-4	ENON-XENIA RD.	206+40	213+58	R	0.14									
107	EL-5	ENON-XENIA RD.	209+97	218+92	L	0.17									
108	EL-6	ENON-XENIA RD.	213+87	218+33	R	0.09									
108	EL-7	ENON-XENIA RD.	218+33	223+97	L	0.10									
109	EL-8	ENON-XENIA RD.	224+73	227+88	L	0.06									
110	EL-9	ENON-XENIA RD.	232+72	236+45	L	0.07									
107	CW-1	ENON-XENIA RD.	206+10	206+47	R					63					
108	CW-2	ENON-XENIA RD.	213+48	213+96	R					79					
108	CW-3	ENON-XENIA RD.	218+24	218+75	R					84					
108	CW-4	ENON-XENIA RD.	218+84	218+92	C					85	48				
109	CW-5	ENON-XENIA RD.	224+08	224+64	R					104					
109	CW-6	ENON-XENIA RD.	224+14	224+54	L					78					
109	CW-7	ENON-XENIA RD.	224+54	224+71	C					103					
109	CW-8	ENON-XENIA RD.	224+01	224+14	C					104					
109	CW-9	ENON-XENIA RD.	227+89	227+97	C					84	48				
109	CW-10	ENON-XENIA RD.	228+06	228+59	R					91	58				
110	CW-11	ENON-XENIA RD.	232+11	232+61	L					89					
110	CW-12	ENON-XENIA RD.	232+10	232+58	R					78					
108	TL-1	ENON-XENIA RD.	215+41	217+97	C							96			
108	TL-2	ENON-XENIA RD.	216+22	218+31	L							45			
109	TL-3	ENON-XENIA RD.	226+34	227+81	R							134			
109	TL-4	ENON-XENIA RD.	229+69	231+39	R							137			
110	TL-5	ENON-XENIA RD.	232+72	235+34	R							121			
108	CH-1	ENON-XENIA RD.	218+98	219+48	C			50							
109	CH-2	ENON-XENIA RD.	223+47	223+95	R			47							
109	CH-3	ENON-XENIA RD.	224+42		R			15							
109	CH-4	ENON-XENIA RD.	224+75	226+25	C			150							
109	CH-5	ENON-XENIA RD.	228+81	229+56	C			75							
110	CH-6	ENON-XENIA RD.	231+50	232+00	R			50							
TOTALS CARRIED TO GENERAL SUMMARY						0.89	0.69	387	0	1042	154	533	0	0	75

CALCULATED ATW
CHECKED JCH

PAVEMENT MARKING SUBSUMMARY

CLA-CR315-1.28

SHEET NO.	REFERENCE NO.	ALIGNMENT	STATION FROM	STATION TO	SIDE	644 EDGE LINE, 4"	644 CENTER LINE	644 CHANNELIZING LINE, 8"	644 STOP LINE	644 CROSSWALK LINE, 12"	644 CROSSWALK LINE, 24"	644 TRANSVERSE/DIAGONAL LINE	644 ISLAND MARKING	644 SCHOOL SYMBOL MARKING, 12"	644 LANE ARROW	621 RPM
						MILE	MILE	FT	FT	FT	FT	FT	SF	EACH	EACH	EACH
109	LT-1	ENON-XENIA RD.	219+98	222+97	C		0.06									7
109	LT-2	ENON-XENIA RD.	219+98	222+97	R		0.06									7
108	LA-1	ENON-XENIA RD.	219+08		R										1	
109	LA-2	ENON-XENIA RD.	220+58		R										2	
109	LA-3	ENON-XENIA RD.	222+23		R										2	
109	LA-4	ENON-XENIA RD.	223+87		R										1	
109	LA-5	ENON-XENIA RD.	224+82		R										1	
109	LA-6	ENON-XENIA RD.	225+48		R										1	
109	LA-7	ENON-XENIA RD.	226+14		R										1	
109	LA-8	ENON-XENIA RD.	228+91		R										1	
109	LA-9	ENON-XENIA RD.	229+41		R										1	
110	LA-10	ENON-XENIA RD.	231+90		R										1	
108	SC-1	ENON-XENIA RD.	214+33	214+39	C									1		
110	SC-2	ENON-XENIA RD.	234+79	234+86	C									1		
107	SL-11	ENON-XENIA RD.	203+18	203+30	R				16							
107	SL-1	ENON-XENIA RD.	206+28	206+39	R				11							
108	SL-2	ENON-XENIA RD.	213+72	213+85	R				13							
108	SL-3	ENON-XENIA RD.	218+48	218+62	R				14							
109	SL-4	ENON-XENIA RD.	224+16	224+33	L				17							
109	SL-5	ENON-XENIA RD.	223+94	223+95	R				27							
109	SL-6	ENON-XENIA RD.	224+74	224+75	L				23							
109	SL-7	ENON-XENIA RD.	224+30	224+55	R				25							
109	SL-8	ENON-XENIA RD.	228+34	228+48	R				14							
110	SL-9	ENON-XENIA RD.	232+18	232+37	L				19							
110	SL-10	ENON-XENIA RD.	232+34	232+48	R				14							
108	IM-1	ENON-XENIA RD.	217+97	218+02	C								38.3			
109	IM-2	ENON-XENIA RD.	227+81	227+88	C								56.4			
110	IM-3	ENON-XENIA RD.	232+66	232+72	R								56.4			
TOTALS CARRIED TO GENERAL SUMMARY						0.00	0.11	0	193	0	0	0	151	2	12	14

CALCULATED ATW
CHECKED JCH

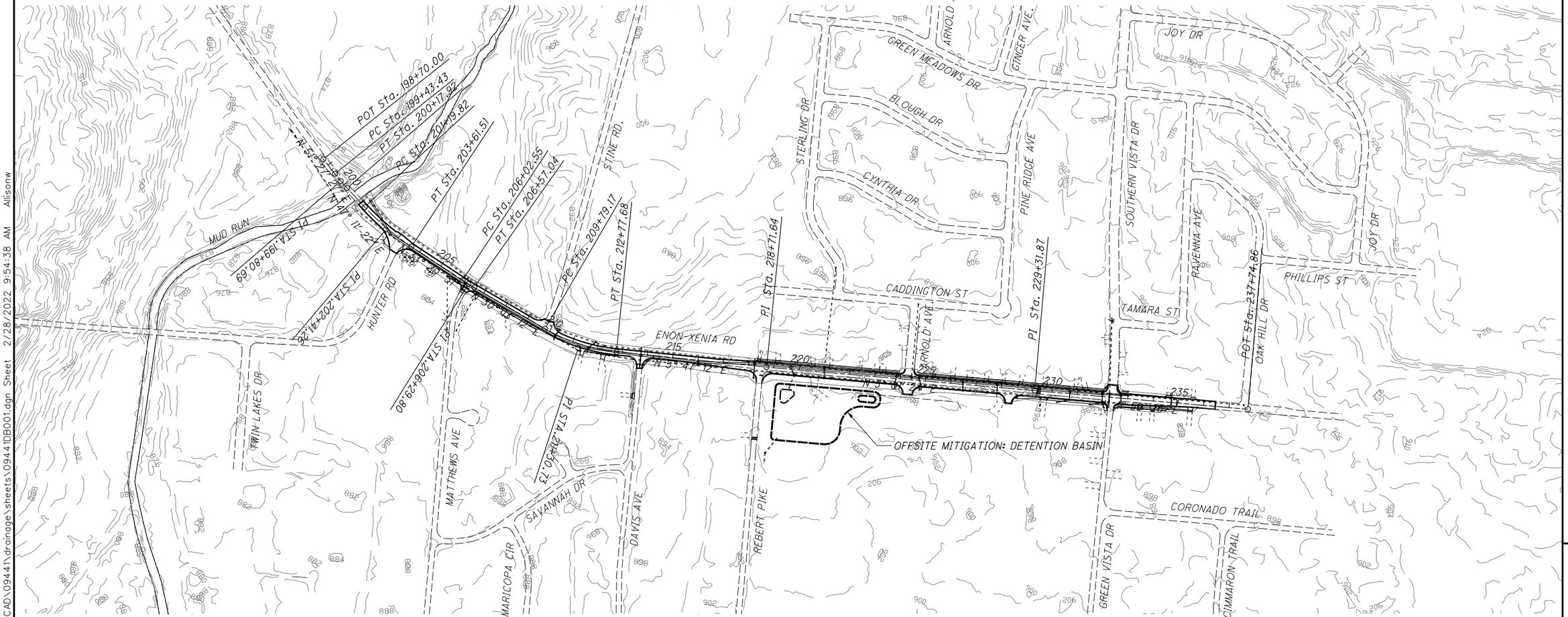
PAVEMENT MARKING SUBSUMMARY

CLA-CR315-1.28

PROJECT DESCRIPTION

THIS PROJECT INCLUDES 3,400-FT OF FULL-DEPTH PAVEMENT RECONSTRUCTION AND CONSTRUCTION OF A SHARED USE PATH. THE EXISTING STORM SEWER WILL BE REPLACED FOR THE LENGTH OF TH PROJECT. THIS PROJECT ALSO INCLUDES WATER MAIN REPLACEMENT AND SIDEWALK RECONSTRUCTION NORTH OF REBERT PIKE.

PROJECT DATA			
TOTAL AREA (RIGHT-OF-WAY)	6.59 AC	RUNOFF COEFFICIENT FOR PRE-CONSTRUCTION SITE	0.548
PROJECT EARTH DISTURBED AREA	5.26 AC	RUNOFF COEFFICIENT FOR POST-CONSTRUCTION SITE	0.549
ESTIMATED CONTRACTOR EARTH DISTURBED AREA	0.50 AC	POST CONSTRUCTION BMP(S): OFFSITE TREATMENT	
NOTICE OF INTENT EARTH DISTURBED AREA	5.76 AC	IMMEDIATE RECEIVING WATERS	MUD RUN CREEK
IMPERVIOUS (PAVED) AREA FOR PRE-CONSTRUCTION SITE	2.97 AC	SUBSEQUENT RECEIVING WATERS	MAD RIVER
IMPERVIOUS (PAVED) AREA FOR POST CONSTRUCTION SITE	4.04 AC		



LEGEND

- *PROPOSED CATCH BASIN, NO 2-2B*
- *PROPOSED CATCH BASIN, NO 2-3*
- *PROPOSED CATCH BASIN, NO 2-4*
- *PROPOSED CATCH BASIN, NO 2-6*
- *PROPOSED CATCH BASIN, NO 3*
- *PROPOSED MANHOLE, NO 3*
- *PROPOSED MANHOLE, NO 4*
- *EXISTING STORM SEWER*
- *PROPOSED STORM SEWER*

USGS MAP: YELLOW SPRINGS QUADRANGLE
ENON, OHIO
*LATITUDE: 39°51'45"**
*LONGITUDE: 83°56'17"**
**APPROXIMATE CENTER OF PROJECT*

BMP TYPE	TREATMENT TYPE	REQUIRED TREATMENT AREA (ACRES)
OFF-SITE MITIGATION	DETENTION BASIN	1.41

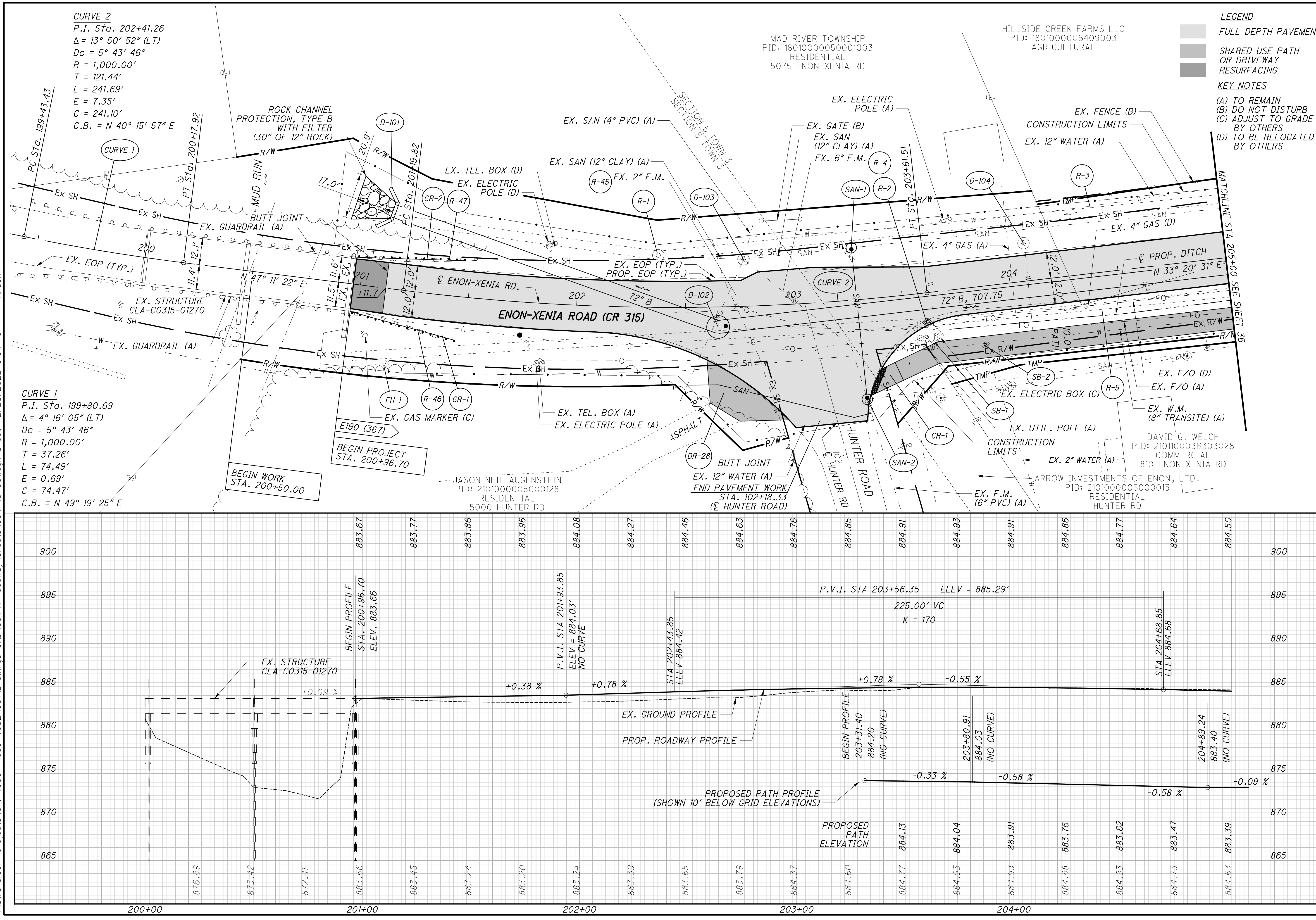
N

0 100 200 400
HORIZONTAL SCALE IN FEET

PROJECT SITE PLAN
ENON-XENIA ROAD (CR 315)

CLA-CR315-1.28

34
138



PLAN AND PROFILE-STA 200+00 TO STA 205+00
ENON-XENIA ROAD (CR 315)

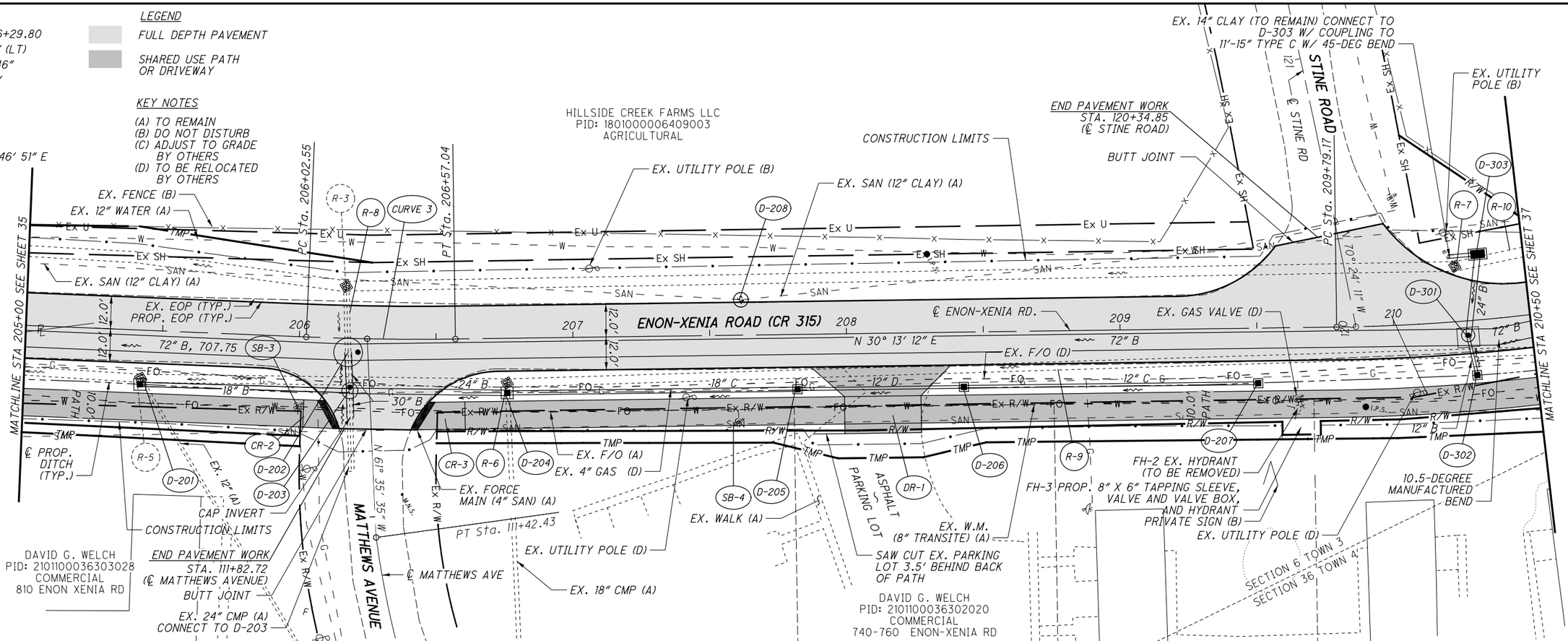
CALCULATED ATW
CHECKED JCH

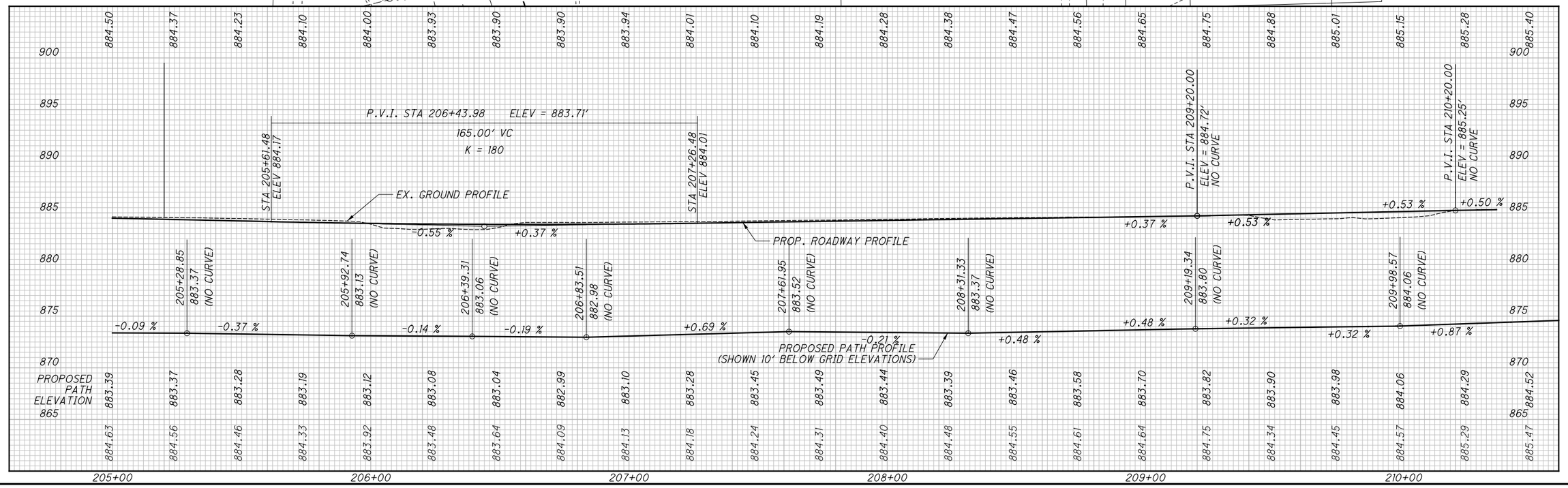
CLA-CR315-1.28

CURVE 3
P.I. Sta. 206+29.80
Δ = 3° 07′ 19″ (LT)
Dc = 5° 43′ 46″
R = 1,000.00′
T = 27.25′
L = 54.49′
E = 0.37′
C = 54.48′
C.B. = N 31° 46′ 51″ E

LEGEND
FULL DEPTH PAVEMENT
SHARED USE PATH OR DRIVEWAY

KEY NOTES
(A) TO REMAIN
(B) DO NOT DISTURB
(C) ADJUST TO GRADE BY OTHERS
(D) TO BE RELOCATED BY OTHERS





HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED ATW
CHECKED JCH

PLAN AND PROFILE-STA 205+00 TO STA 210+00
ENON-XENIA ROAD (CR 315)

CLA-CR315-1.28

36
138

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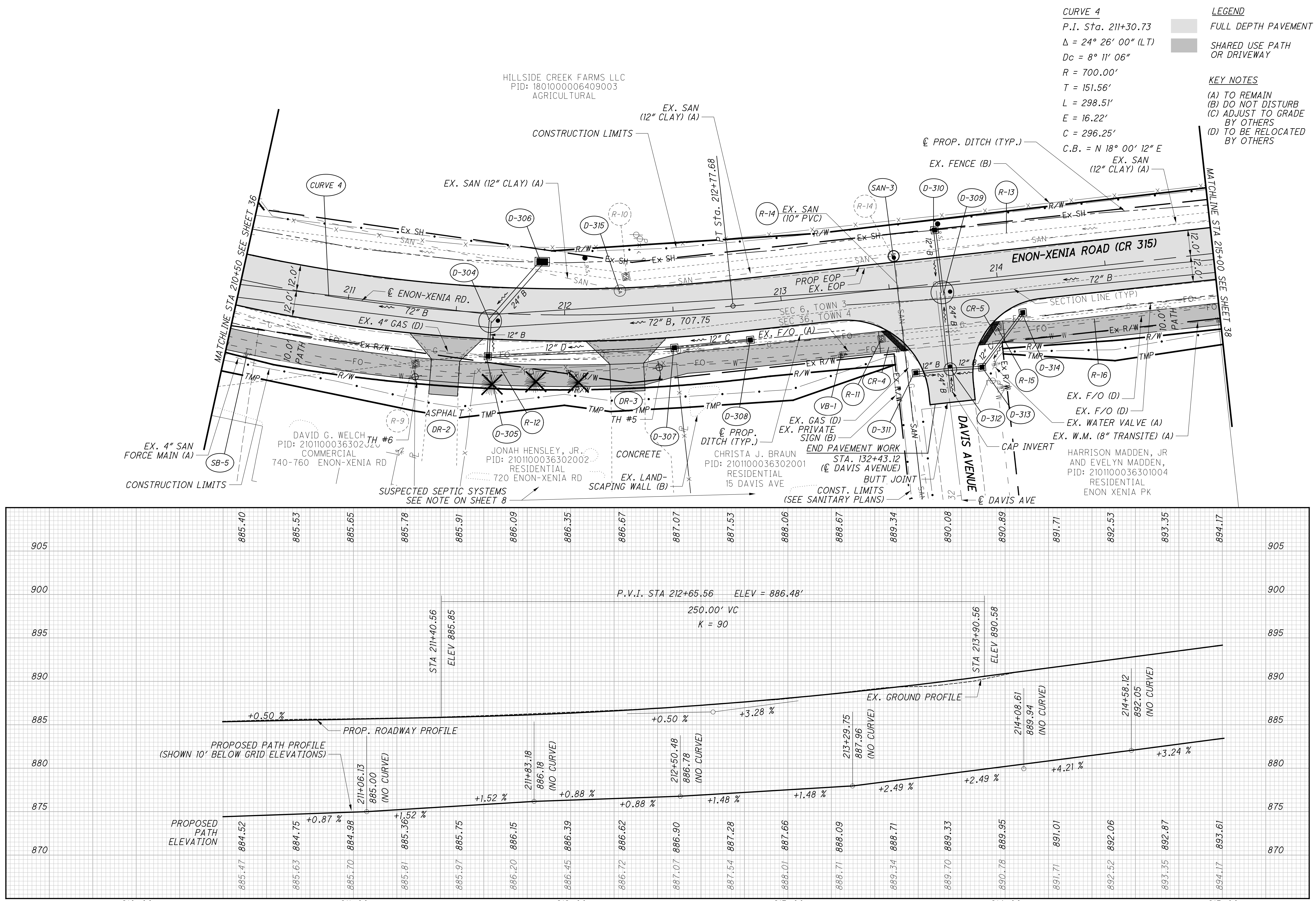


HORIZONTAL SCALE IN FEET (0 10 20 40)

CALCULATED ATW
CHECKED JCH

PLAN AND PROFILE-STA 210+00 TO STA 215+00
ENON-XENIA ROAD (CR 315)

CLA-CR315-1.28

LEGEND

FULL DEPTH PAVEMENT

SHARED USE PATH OR WALK OR DRIVEWAY

KEY NOTES

(A) TO REMAIN
(B) DO NOT DISTURB
(C) ADJUST TO GRADE BY OTHERS
(D) TO BE RELOCATED BY OTHERS
(E) POLES TO BE RELOCATED DURING CONSTRUCTION (SEE NOTE ON SHEET 8)

HILLSIDE CREEK FARMS LLC
PID: 1801000006409003
AGRICULTURAL

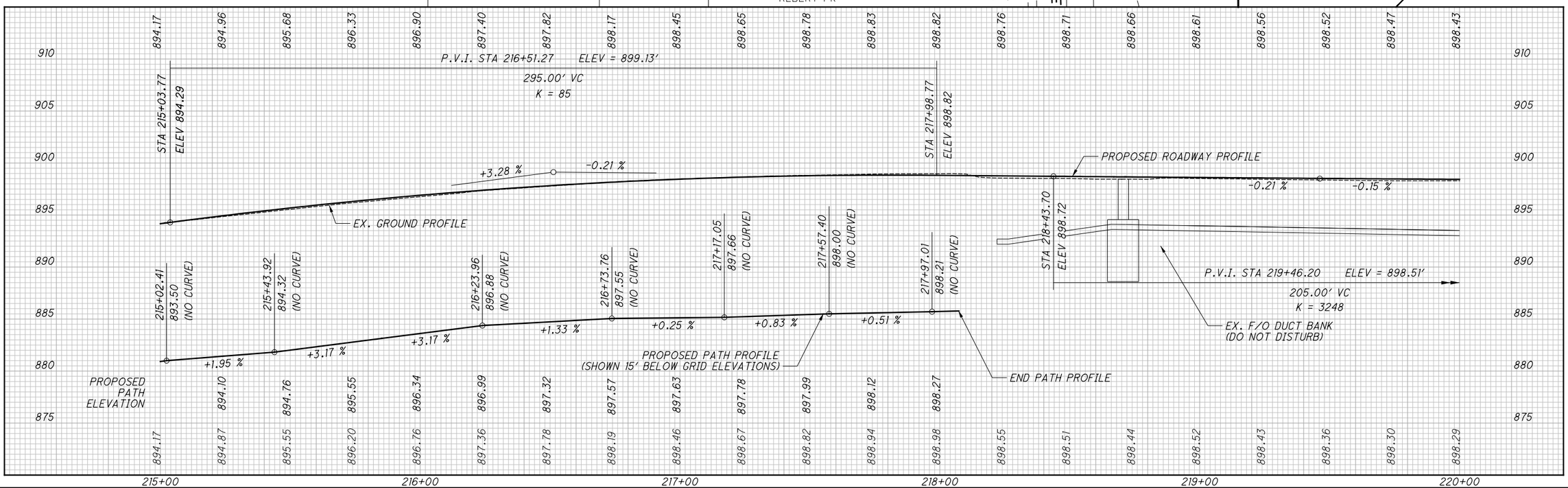
LOYD E. HARDY AND MARY R. HARDY
PID: 1801000006408016
RESIDENTIAL
4675 ENON-XENIA RD

SHAWN W. FOGLE
PID: 1801000006408015
RESIDENTIAL
4659 ENON-XENIA RD

EUGENE H. ALLISON AND JUDY LEE ALLISON
PID: 1801000006408014
RESIDENTIAL
4641 ENON-XENIA RD

EX. UTILITY POLE (B)
℄ PROP. DITCH (TYP.)
EX. FENCE (B)
CONSTRUCTION LIMITS
EX. SAN (12" CLAY) (A)
PROP. EOP (TYP.)
EX. UTILITY POLE (B)
EX. 4" GAS (D)
EX. WALL (B)
EX. 6" WATER
EX. LIGHT POLE (E)
PROP. 8" WATER MAIN
CAP INVERT
ASPHALT
TREE (B)
PI STA. 218+71.64
MATCHLINE STA 215+00 SEE SHEET 37
MATCHLINE STA 220+00 SEE SHEET 39
ENON-XENIA ROAD (CR 315)
SECTION LINE (TYP.)
℄ ENON-XENIA RD. 217
EX. EOP (TYP.)
SEC 6, TOWN 3
SEC 36, TOWN 4
N 5° 47' 12" E
72" B
72" B, 707.75
30" B
15" B
12" B
TAPER 27:1
PROP. EOP (TYP.)
B-001-0-19
TH #4
EX. F/O DUCT BANK (B)
TH #3
EX. UTILITY POLE (A)
ATT TH #3
ATT TH #1
10.0' PATH
CONSTRUCTION LIMITS
℄ PROP. DITCH (TYP.)
EX. F/O (D)
EX. UTILITY POLE (D)
EX. 4" GAS (D)
5-DEGREE MANUFACTURED BEND
EX. W.M. (8" TRANSITE) (A)
EX. UTILITY POLE (D)
EX. TEL. BOX (D)
EX. TEL. MH (C) ATT TH #2
EX. TEL. VAULT (B)
EX. POLE (D)
EX. SAN (8" PVC) (A)
℄ REBERT PIKE
BUTT JOINT END PAVEMENT WORK STA. 142+16.65 (℄ REBERT PIKE)
EDGE OF EX. DETENTION BASIN
EX. CB (A)
EX. CPP
BOARD OF EDUCATION OF THE MAD RIVER-GREEN LOCAL SCHOOL DISTRICT
PID: 210111000360001008
EDUCATIONAL
HARRISON MADDEN, JR AND EVELYN MADDEN
PID: 2101100036301003
RESIDENTIAL
ENON XENIA PK
HARRISON MADDEN, JR AND EVELYN MADDEN
PID: 2101100036301035
RESIDENTIAL
ENON XENIA PK
HARRISON MADDEN, JR AND EVELYN MADDEN
PID: 2101100036301036
RESIDENTIAL
REBERT PK

NOTE: SEE WATER MAIN PLANS FOR WATERWORK FROM STA. 215+00 TO 237+00



CALCULATED ATW
CHECKED JCH

HORIZONTAL SCALE IN FEET
0 10 20 40

PLAN AND PROFILE-STA 215+00 TO STA 220+00
ENON-XENIA ROAD (CR 315)

CLA-CR315-1.28

38
138

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EUGENE H. ALLISON AND JUDY LEE ALLISON
PID: 1801000006408014
RESIDENTIAL
4641 ENON-XENIA RD

DANA D. MAYS AND CARMEN D. MAYS
PID: 1801000006408013
RESIDENTIAL
4623 ENON-XENIA RD

ADA M. WOODS AND WILLENA J. CLONCH
PID: 1801000006408012
RESIDENTIAL
4605 ENON-XENIA RD

KENNETH CLONCH, SR. AND WILLENA CLONCH,
PID: 1801000006408011
RESIDENTIAL
4583 ENON-XENIA RD

IRVIN L. MCWHORTER
PID: 1801000006408010
RESIDENTIAL
4569 ENON-XENIA RD

JOHN T GRAY AND MARY CATHERINE GRAY,
PID: 1801000006408009
RESIDENTIAL
4551 ENON-XENIA RD

TABITHA L. MCCARTY
PID: 1801000006401026
RESIDENTIAL
4523 ENON-XENIA RD

EX. 8" CLAY (TO REMAIN) CONNECT TO D-503 W/ FERNCO COUPLING TO 7'-8" PVC W/ 45-DEG BEND
EX. 24" STM (A)
EX. 8" SAN (A)
EX. LIGHT POLE (E)
EX. LANDSCAPING WALL (B)
PROP. 8" TMP WATER MAIN
CONSTRUCTION LIMITS
FENCE (DND)
TREE (B)
LANDSCAPING (B)
EX. GAS VALVE (D)
℄ ARNOLD AVE
ARNOLD AVENUE
N 85° 00' 16" W 151
BUTT JOINT
END PAVEMENT WORK
STA. 150+37.95
(℄ ARNOLD AVENUE)
EX. SAN (12" CLAY) (A)
ASPHALT
CONCRETE
TMP
5.0' WALK
Ex R/W
SAN
MATCHLINE STA 220+00 SEE SHEET 38
MATCHLINE STA 225+00 SEE SHEET 40
℄ ENON-XENIA RD.
SEC 6, TOWN 3
SEC 36, TOWN 4
ENON-XENIA ROAD (CR 315)
PROP. EOP (TYP.)
EX. EOP (TYP.)
EX. 6" WATER
EX. 4" GAS (D)
ATT TH #4
ATT TH #5
ATT TH #6
ATT TH #7
EX. W.M. (8" TRANSITE) (A)
B-002-0-19
N 5° 01' 24" E
EXTEND EX. 12" B
CONNECT TO D-507
EX. TEL. MH (C)
EX. PATH (A)
EX. F/O DUCT BANK (B)
CONSTRUCTION LIMITS
EX. UTILITY POLE (A)
EX. 18" STM (A)
EX. SIGNAL POLE (A) (TYP.)
EX. SAN (8" CLAY) (ABANDONED)
EX. 18" STM (A)
EX. CB (A)
EX. 15" STM (A)
EX. WALK (A)
BUTT JOINT
END PAVEMENT WORK, OFF. 58.00'
ARNOLD SCHOOL ENTRANCE
NOTE: SEE WATER MAIN PLANS FOR WATERWORK FROM STA. 215+00 TO 237+00
EX. DETENTION BASIN
BOARD OF EDUCATION OF THE MAD RIVER-GREEN LOCAL SCHOOL DISTRICT
PID: 210110003600001008
EDUCATIONAL
72" B
24" B
12" B
60" B
222
223
224
18.0'
23.0'
10.0'
150
895
890
885

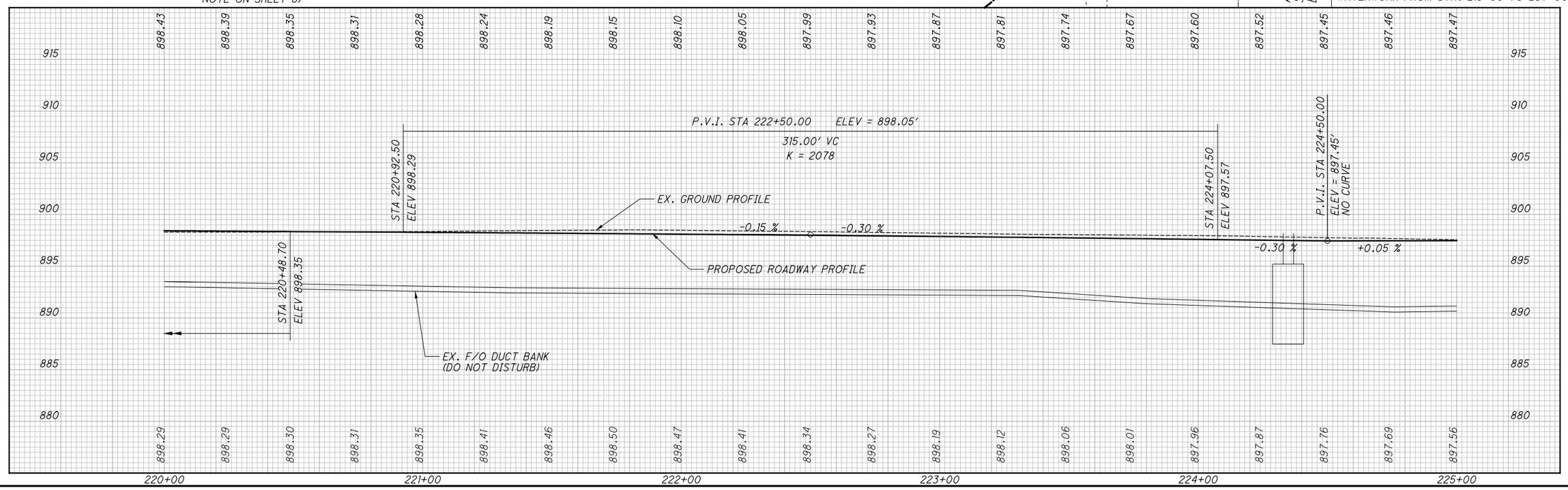
LEGEND

FULL DEPTH PAVEMENT

SHARED USE PATH OR DRIVEWAY OR WALK

KEY NOTES

(A) TO REMAIN
(B) DO NOT DISTURB
(C) ADJUST TO GRADE BY OTHERS
(D) TO BE RELOCATED BY OTHERS
(E) POLES TO BE RELOCATED DURING CONSTRUCTION (SEE NOTE ON SHEET 8)



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ATW
CHECKED JCH

PLAN AND PROFILE-STA 220+00 TO STA 225+00
ENON-XENIA ROAD (CR 315)

CLA-CR315-1.28

39
138

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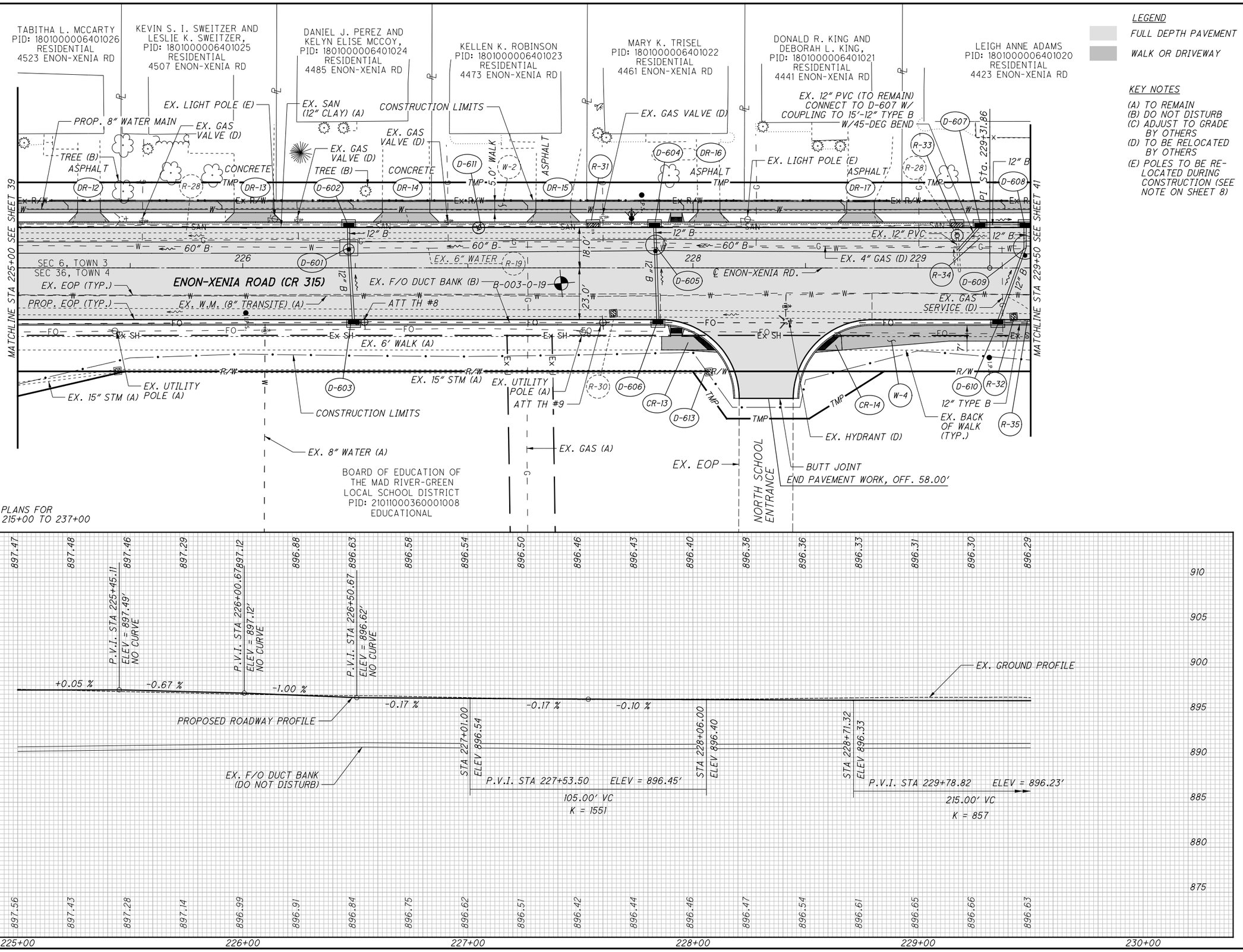

HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED ATW
CHECKED JCH

PLAN AND PROFILE-STA 225+00 TO STA 229+50
ENON-XENIA ROAD (CR 315)

CLA-CR315-1.28

40
138

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LEGEND

FULL DEPTH PAVEMENT

WALK OR DRIVEWAY

RESURFACING

KEY NOTES

(A) TO REMAIN
(B) DO NOT DISTURB
(C) ADJUST TO GRADE BY OTHERS
(D) TO BE RELOCATED BY OTHERS
(E) POLES TO BE RE-LOCATED DURING CONSTRUCTION (SEE NOTE ON SHEET 8)

LEIGH ANNE ADAMS
PID: 1801000006401020
RESIDENTIAL
4423 ENON-XENIA RD

BARBARA ANN KINARD
PID: 1801000006216016
RESIDENTIAL
4393 ENON-XENIA RD

RONNIE R. CONLEY AND
VICTORIA L. CONLEY
PID: 1801000006216015
RESIDENTIAL
4375 ENON-XENIA RD

CHARLES F. SUVER III
PID: 1801000006214012
RESIDENTIAL
6512 SOUTHERN VISTA DR

DENNIS D. SMITH AND
DEBRA I. SMITH
PID: 1801000006214009
RESIDENTIAL
4307 ENON-XENIA RD

SOUTHERN VISTA DRIVE

GREEN VISTA DRIVE

ENON-XENIA DRIVE (CR 315)

EX. LIGHT POLE (E)

EX. MARATHON PIPELINE AIR VENT (D)

TH #10

CONSTRUCTION LIMITS

PROP. 8" WATER MAIN

EX. BOULDER (B)

PC Sta. 170+56.13

END PAVEMENT WORK
STA. 170+48.56
(℄ SOUTHERN VISTA DRIVE)

BUTT JOINT

EX. 24" RCP (A)

EX. 3" SAN (A)

EX. WALK (A)

EX. F/O (A)

EX. 18" STORM (A)
(CONNECT TO D-715)
CONTRACTOR TO FIELD VERIFY SIZE AND INVERT

EX. SAN
(8" F.M.) (A)

EX. SAN
(12" CLAY) (A)

EX. 6" WATER (A)

MATCHLINE STA 229+50
SEE SHEET 40

MATCHLINE STA 234+50 SEE SHEET 42

43" X 68" B, 706.04

SEC 6, TOWN 3

SEC 36, TOWN 4

EX. EOP (TYP.)

PROP. EOP (TYP.)

EX. 4" GAS (D)

EX. 6" WATER

EX. GAS VALVE (D)

EX. W.M. (8" TRANSITE) (A)

B-004-0-19

EX. GAS VALVE (D)

BEGIN TAPER
STA. 233+04.93
OFF. 23.00 RT

21:1 TAPER

N 4° 59' 26" E ℄ ENON-XENIA RD.

EX. F/O DUCT BANK (B)

SAW CUT
+24.01
16.00 LT
+24.01
9.50 RT

ATT TH #10

EX. 12" CPP (A)

GRAVEL

EX. UTILITY POLE (D)

TH #7

TH #8

TH #9

CONSTRUCTION LIMITS

EX. MARATHON PIPELINE AIR VENT (D)

EX. 6" H.P. PETROLEUM PIPELINE (B)

BOARD OF EDUCATION OF THE MAD RIVER-GREEN LOCAL SCHOOL DISTRICT
PID: 210110003600010008
EDUCATIONAL

ROBERT D. HECKLER AND PENNY CREIGHTON
PID: 2101100036102001
RESIDENTIAL
11 GREEN VISTA DR

SUSPECTED SEPTIC SYSTEM SEE NOTE ON SHEET 8

EX. UTILITY POLE (D)

ATT TH #11

CAP INVERT

BUTT JOINT

END PAVEMENT WORK
STA. 163+65.99
(℄ GREEN VISTA DRIVE)

EX. TEL. VAULT (B)

EX. TEL MH (C)
ATT TH #12

℄ PROP. DITCH

EX. TEL. BOX (D)

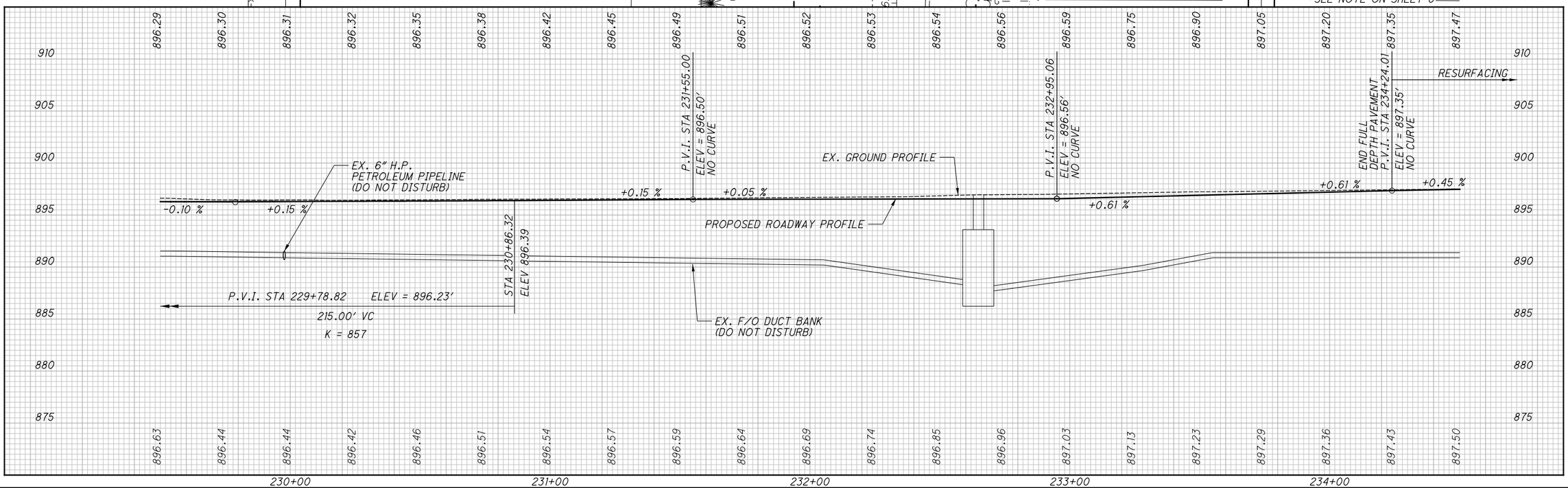
CONCRETE

LARRY D. SECRIST
PID: 2101100036101009
RESIDENTIAL
490 S XENIA ST

DENISE S. BOCKELMAN
PID: 2101100036101008
RESIDENTIAL
480 S XENIA ST

SUSPECTED SEPTIC SYSTEMS SEE NOTE ON SHEET 8

NOTE: SEE WATER MAIN PLANS FOR WATERWORK FROM STA. 215+00 TO 237+00



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ATW
CHECKED JCH

PLAN AND PROFILE-STA 229+50 TO STA 234+50
ENON-XENIA DRIVE (CR 315)

CLA-CR315-1.28

41
138

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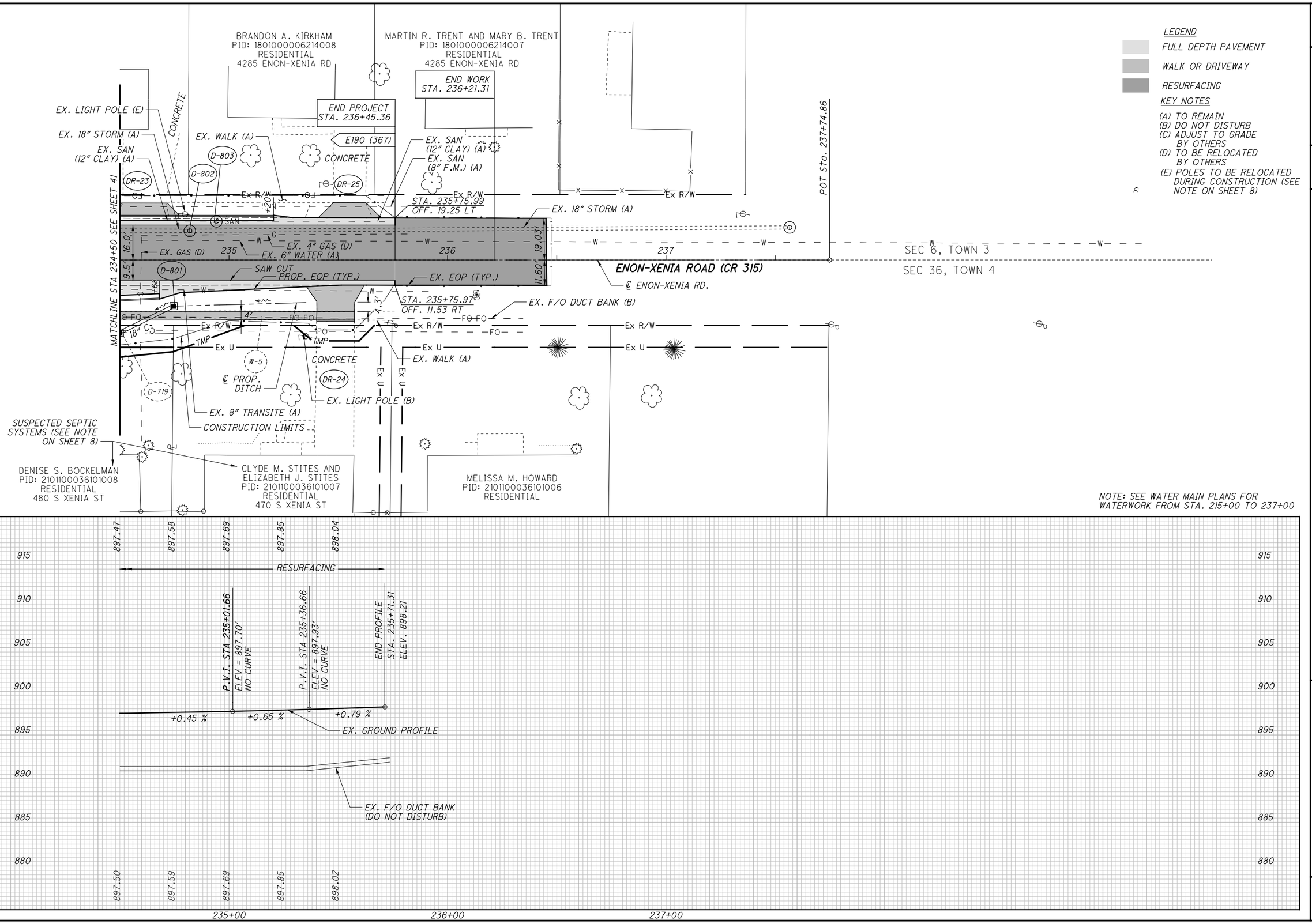


PLAN AND PROFILE-STA 235+00 TO 237+75
ENON-XENIA ROAD (CR 315)

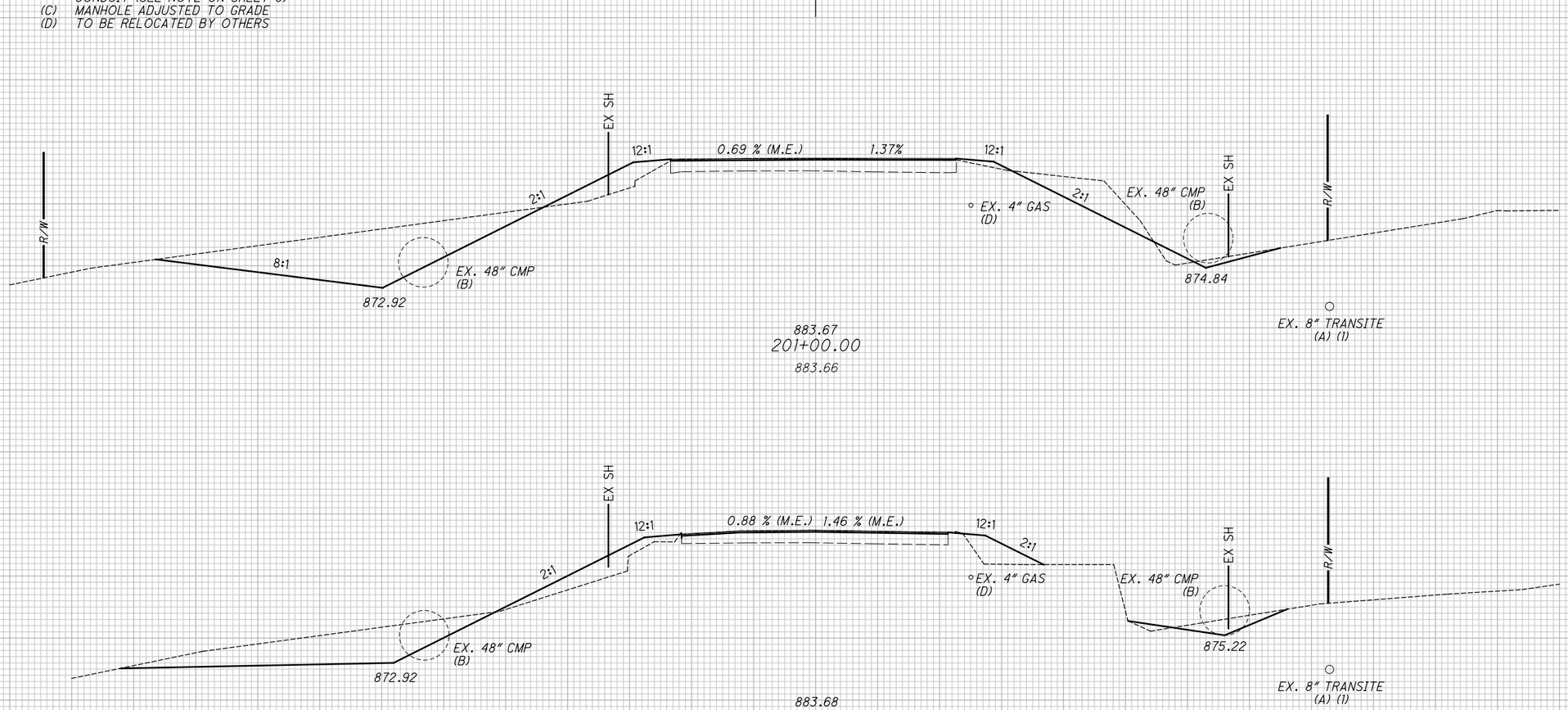
CLA-CR315-1.28

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS

℄ ENON-XENIA RD.



END AREA	
CUT	FILL
77	14
55	23

VOLUME	
CUT	FILL
7	2
7	2

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD
STA. 200+00.00 TO STA. 201+00.00

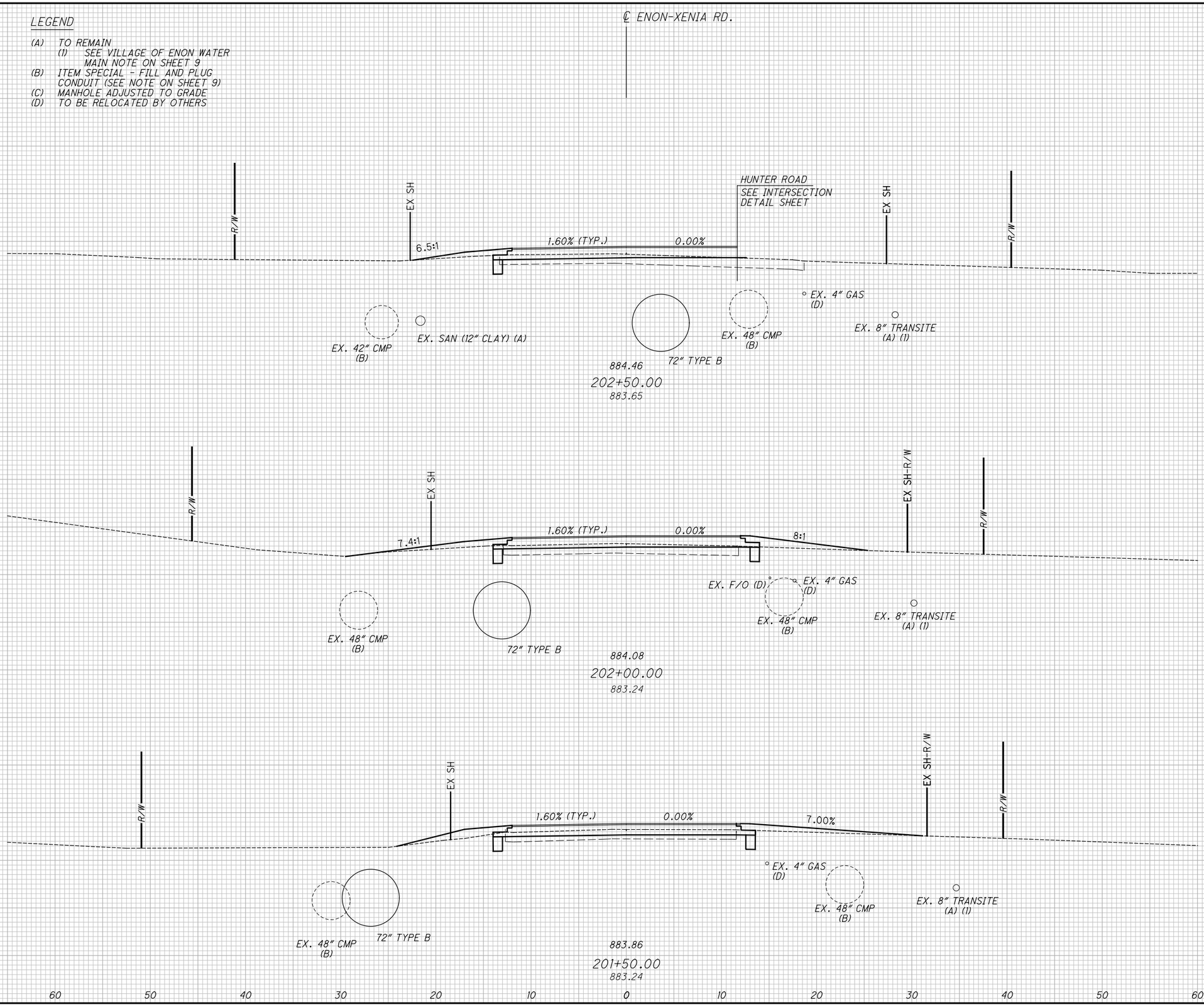
CLA-CR315-1.28

43
138

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS



END AREA		VOLUME	
CUT	FILL	CUT	FILL
4	28		
		7	54
4	30		
		8	51
5	25		
		76	36
		91	141

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD STA. 201+50.00 TO STA. 202+50.00

CLA-CR315-1.28

44
138

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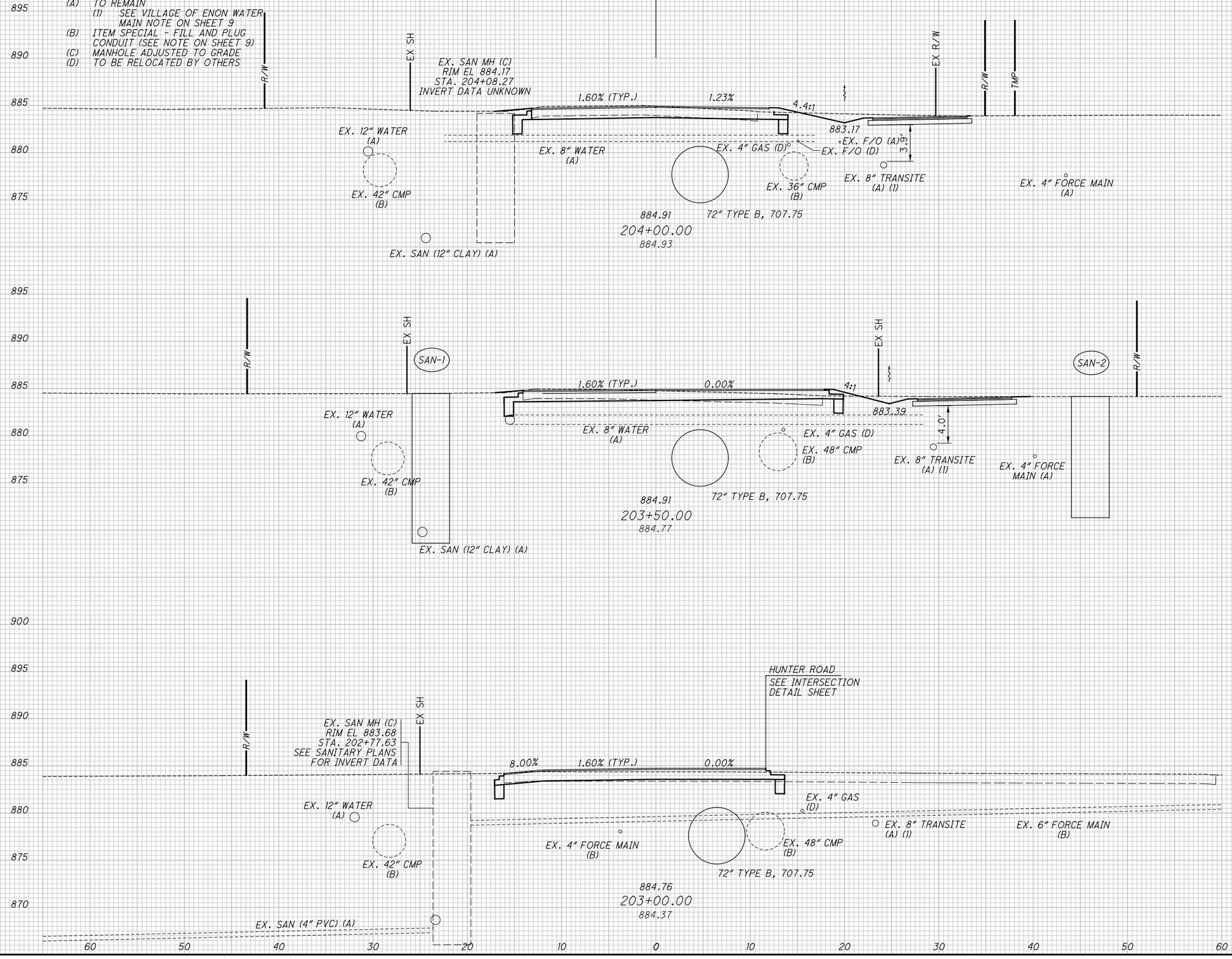
SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS

℄ ENON-XENIA RD.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
25	2		
		42	7
20	6		
		44	62
		86	69

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD STA. 203+00.00 TO STA. 204+00.00

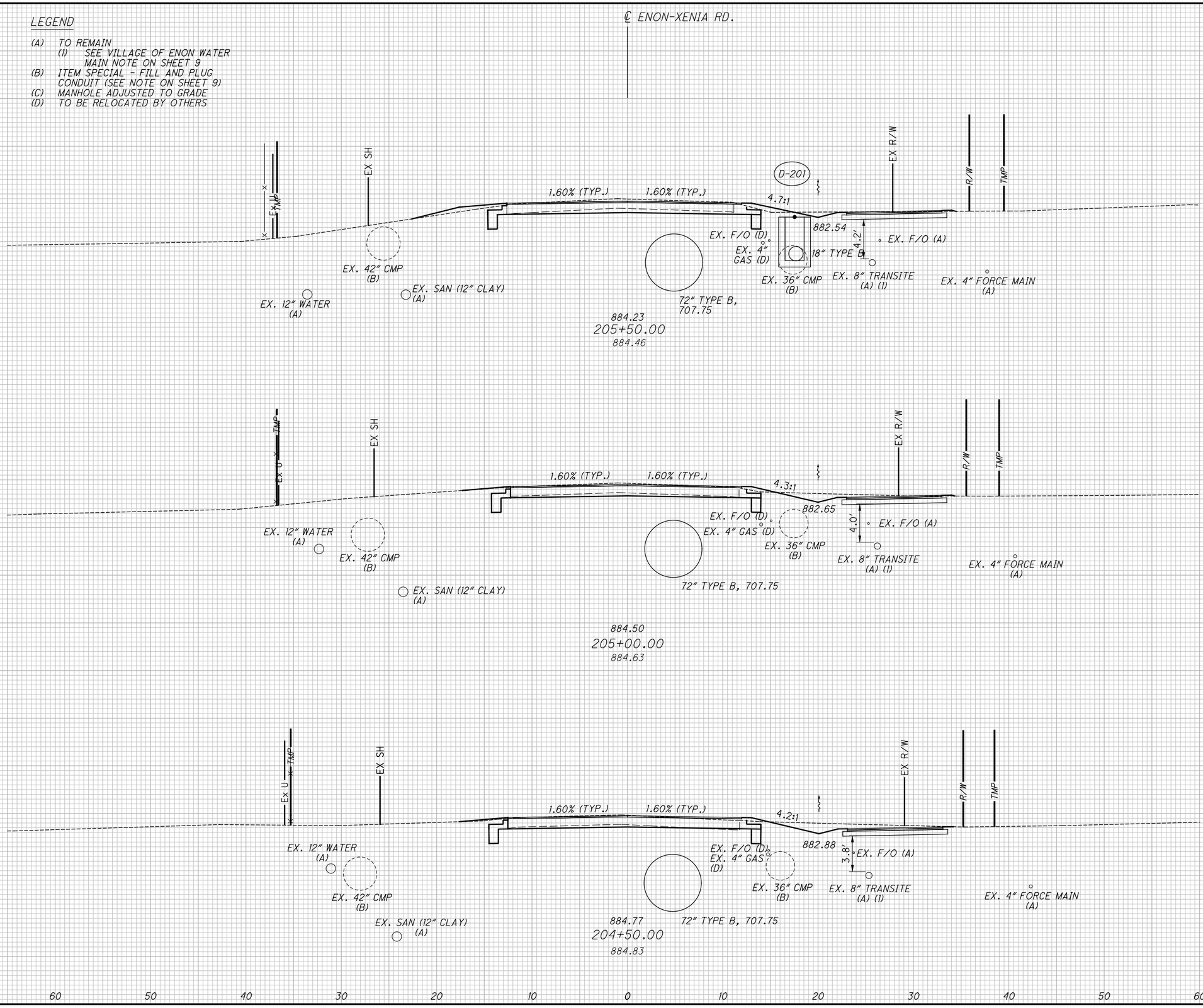
CLA-CR315-1.28

45
138

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS



END AREA		VOLUME	
CUT	FILL	CUT	FILL
23	5		
		44	6
24	1		
		45	3
25	2		
		46	4
		139	13

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD STA. 204+50.00 TO STA. 205+50.00

CLA-CR315-1.28

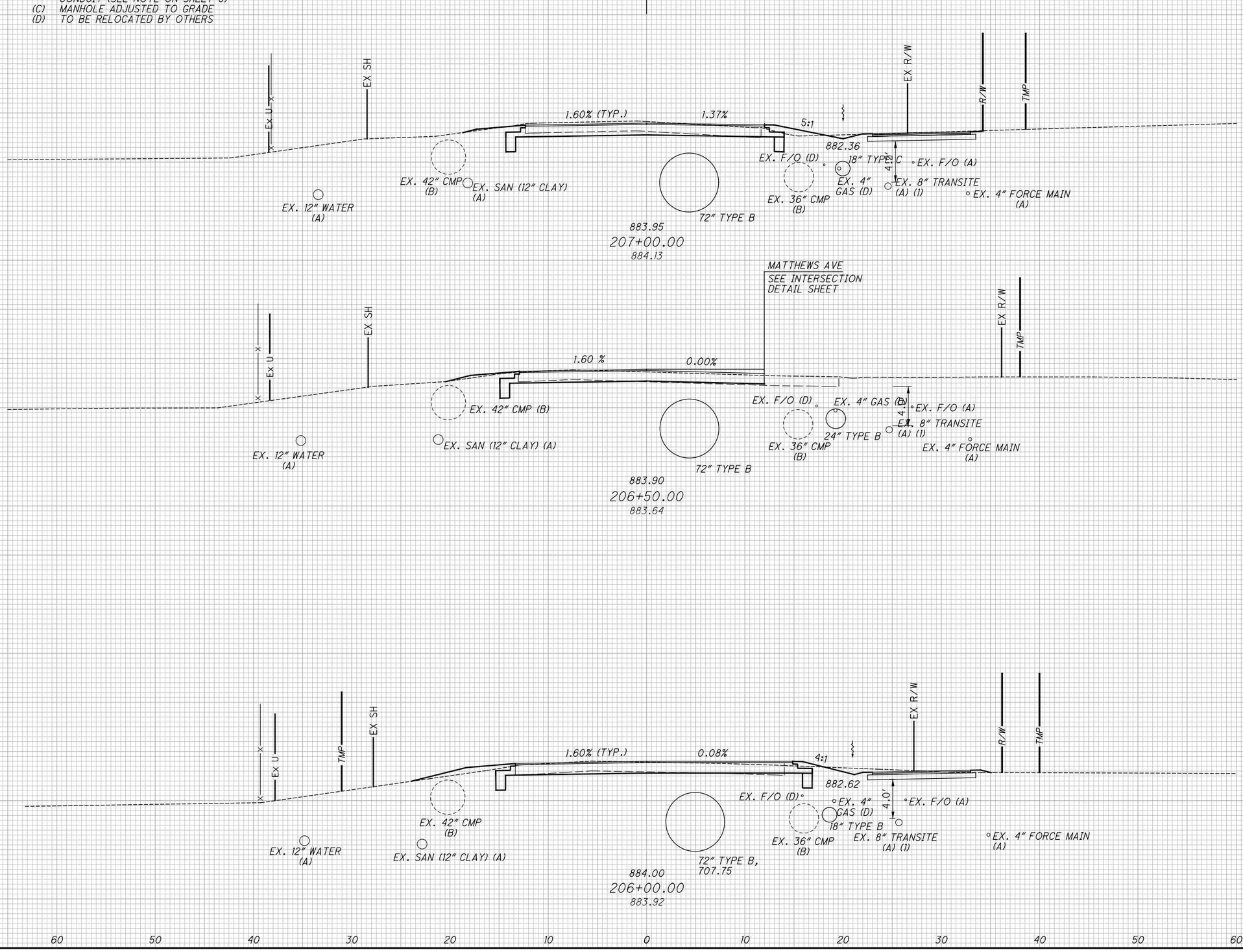
46
138

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS

℄ ENON-XENIA RD.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
21	3		
		74	16
19	6		
		39	10
		113	26

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD
STA. 206+00.00 TO STA. 207+00.00

CLA-CR315-1.28

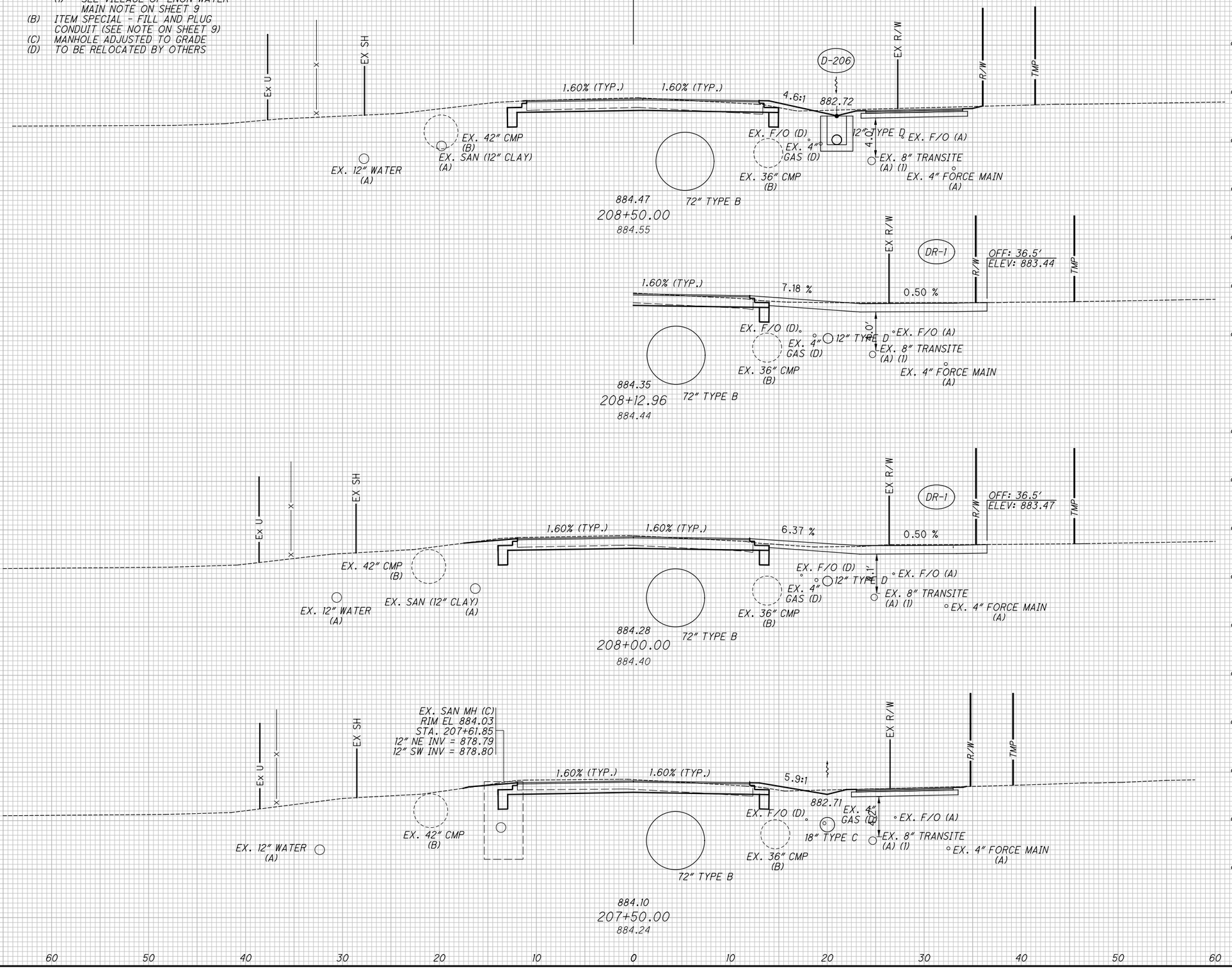
47
138

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS

℄ ENON-XENIA RD.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
21	3	30	3
11	0	30	2
21	2	39	5
		99	10

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD
STA. 207+50.00 TO STA. 208+50.00

CLA-CR315-1.28

48
138

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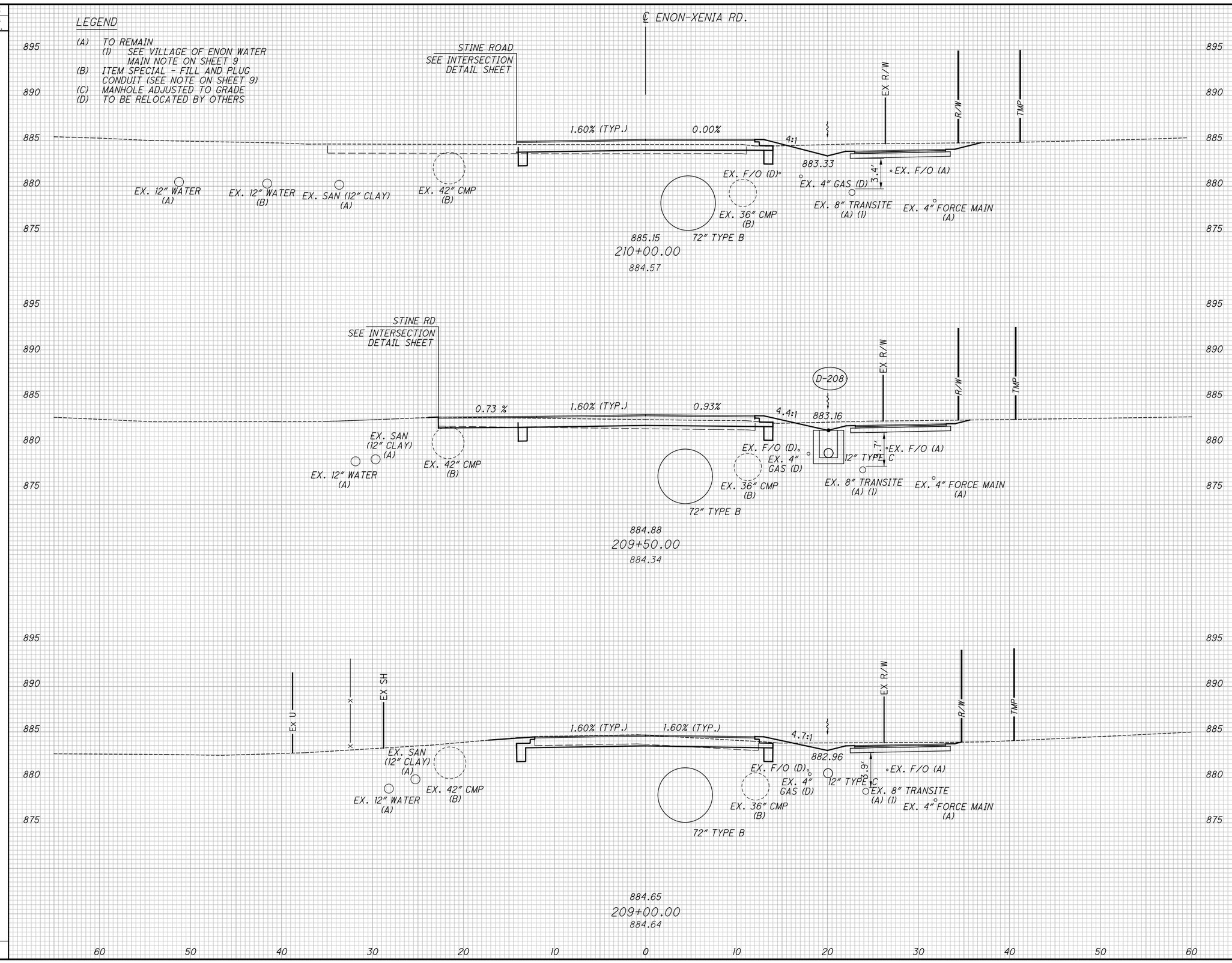
SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS



END AREA		VOLUME	
CUT	FILL	CUT	FILL
26	2		
		44	11
21	10		
		40	12
22	3		
		40	6
		124	29

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD
STA. 209+00.00 TO STA. 210+00.00

CLA-CR315-1.28

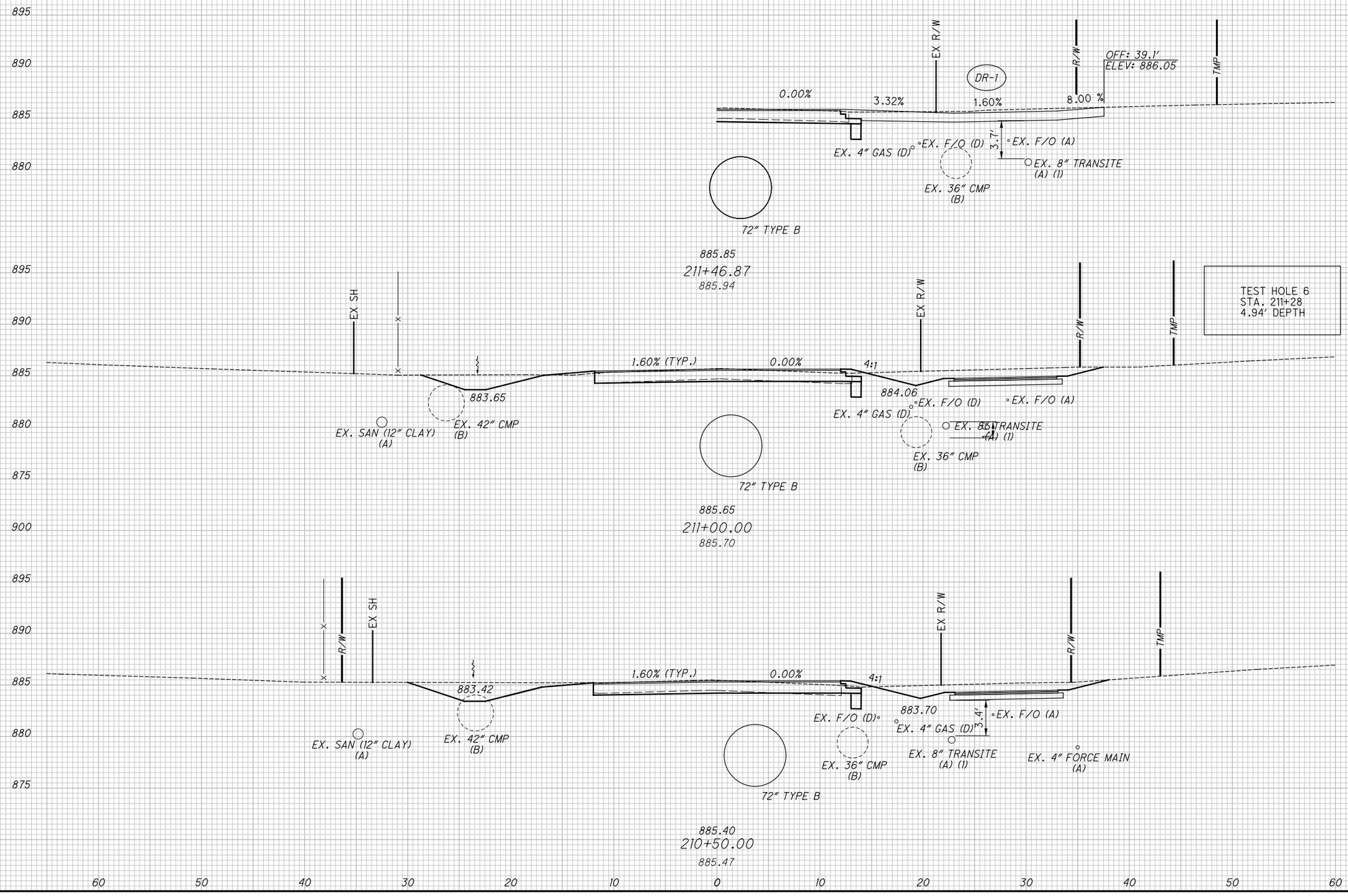
49
138

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS

℄ ENON-XENIA RD.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
40	1		
		80	2
46	1		
		67	3
		147	5

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD
STA. 210+50.00 TO STA. 211+46.87

CLA-CR315-1.28

50
138

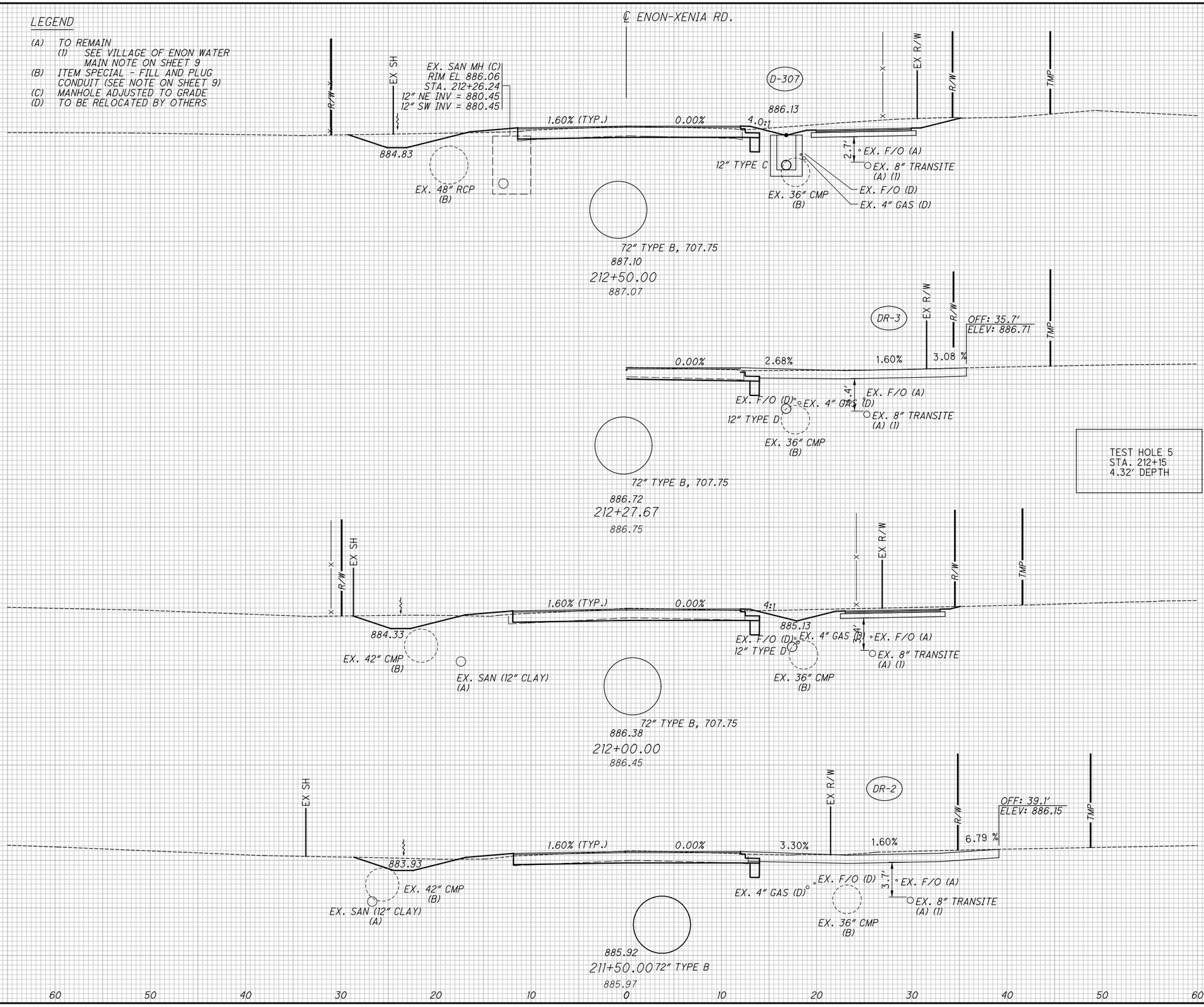
S:\CN\4600--4699\4652\001\Drawings\CAD\09441\roadway\sheets\09441XS001.dgn Sheet 2/28/2022 9:55:23 AM Allisonw

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS

℄ ENON-XENIA RD.



TEST HOLE 5
STA. 212+15
4.32' DEPTH

END AREA		VOLUME	
CUT	FILL	CUT	FILL
37	2	63	5
31	3	61	5
35	2	69	3
		193	13

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD
STA. 211+50.00 TO STA. 212+50.00

CLA-CR315-1.28

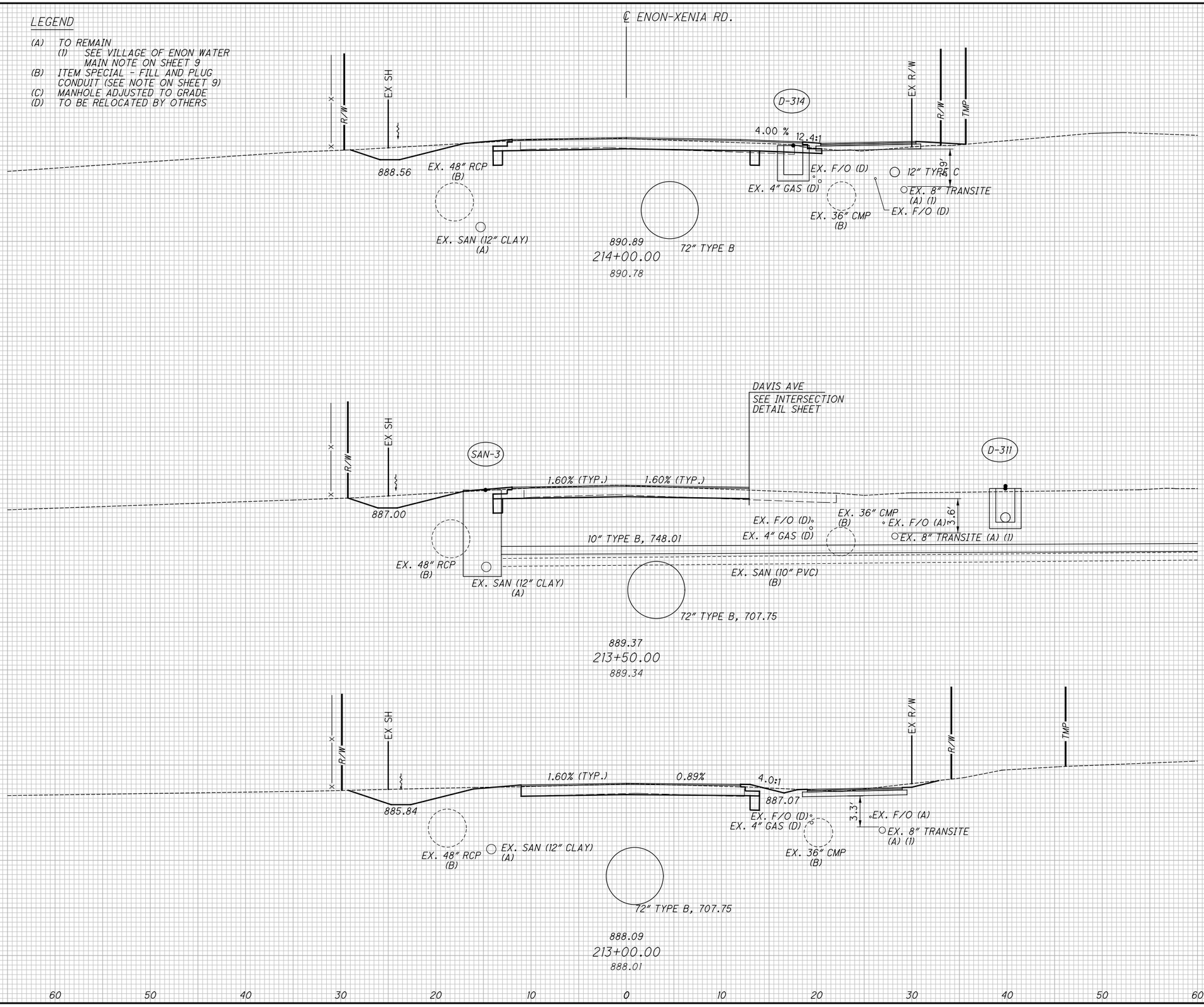
51
138

S:\CN\4600--4699\4652\001\Drawings\CAD\09441\roadway\sheets\09441XS001.dgn Sheet 2/28/2022 9:55:25 AM Allisonw

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS



END AREA		VOLUME	
CUT	FILL	CUT	FILL
18	4		
		81	11
26	2		
		58	4
		139	15

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD
STA. 213+00.00 TO STA. 214+00.00

CLA-CR315-1.28

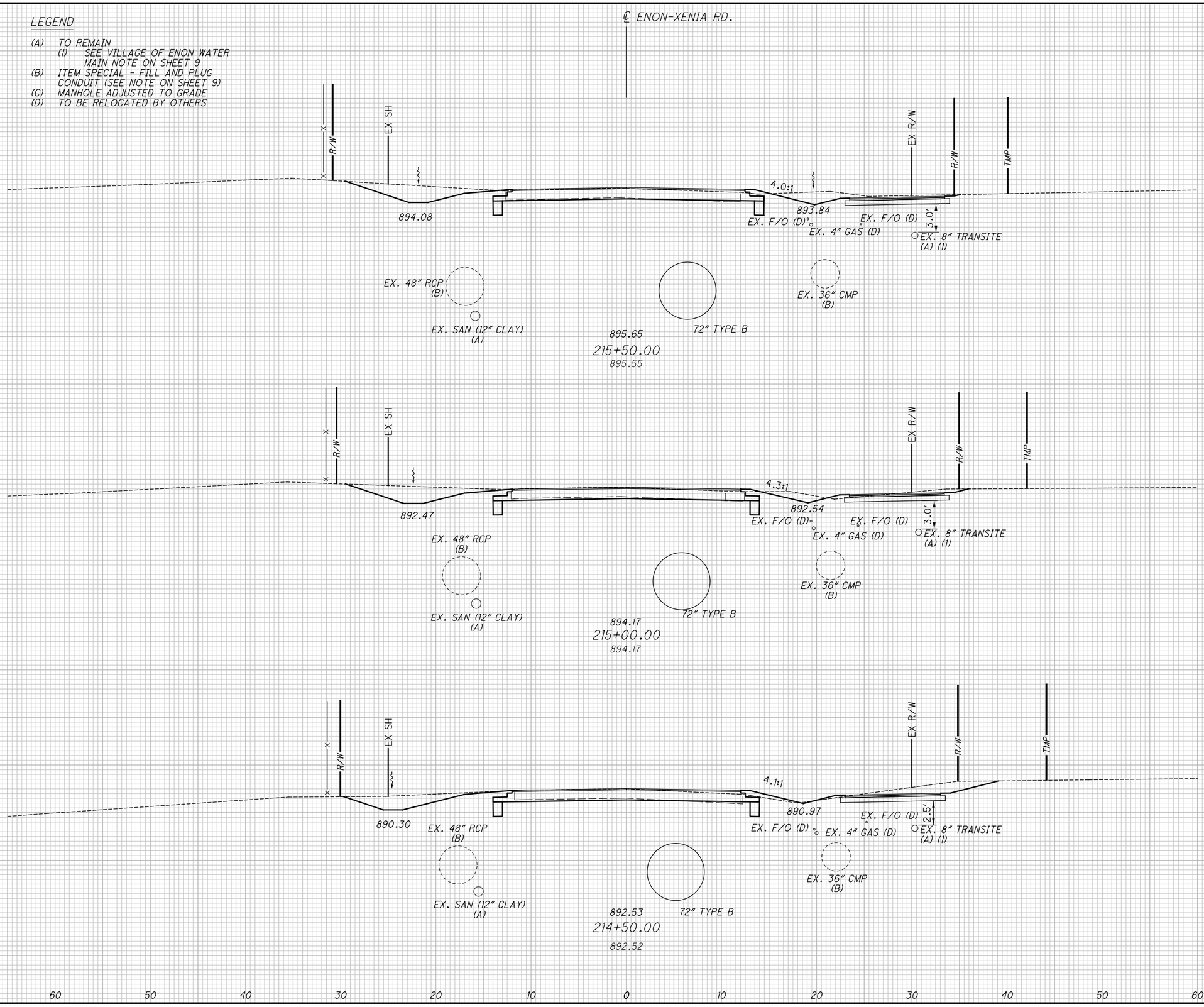
52
138

S:\CIN\4600-4699\4652\001\Drawings\CAD\09441roadway\sheets\09441XS001.dgn Sheet 2/28/2022 9:55:28 AM Allisonw

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS



END AREA		VOLUME	
CUT	FILL	CUT	FILL
38	1		
		69	2
36	1		
		68	3
37	2		
		51	6
		188	11

CALCULATED ATW
CHECKED JCH

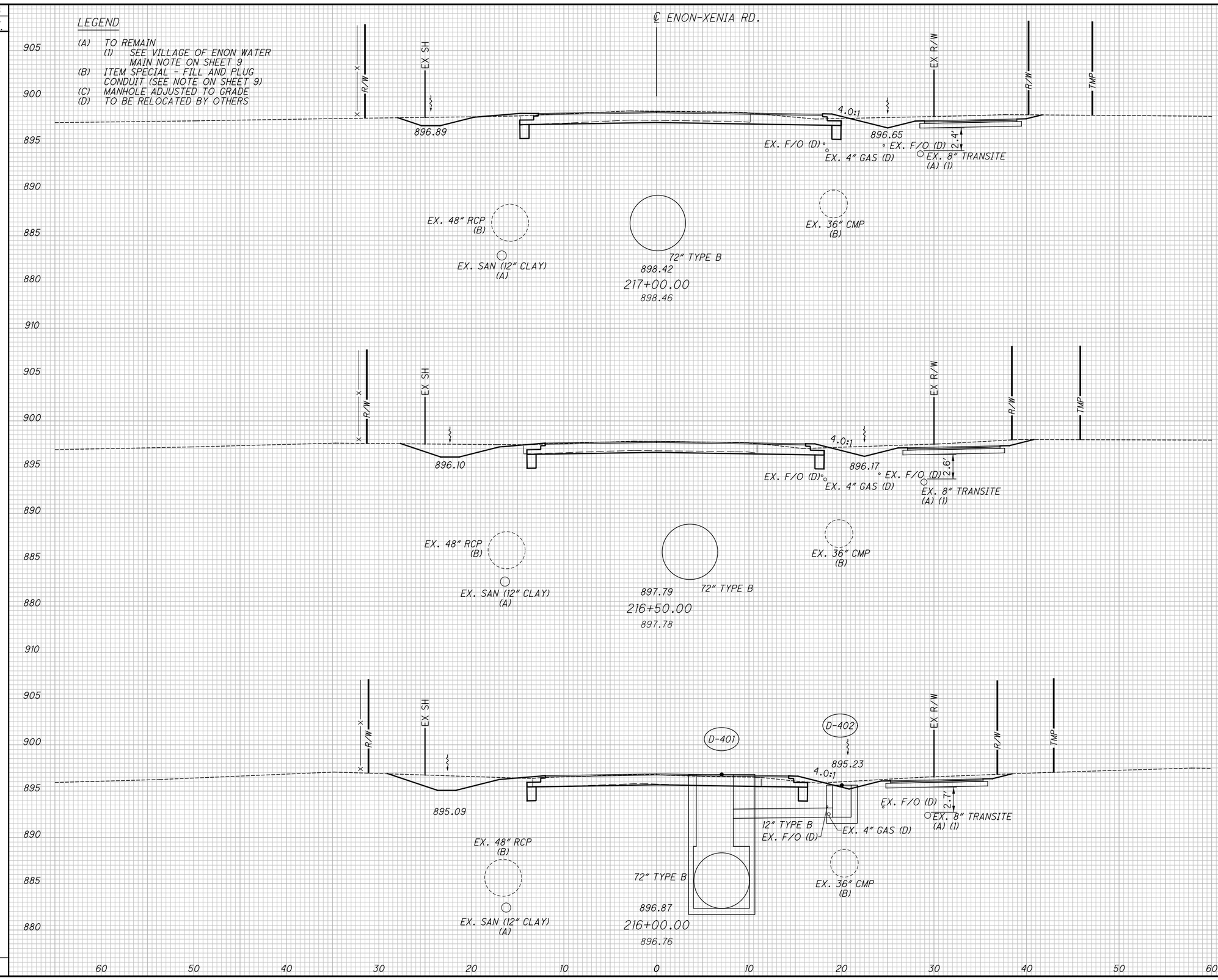
CROSS SECTIONS ENON-XENIA ROAD
STA. 214+50.00 TO STA. 215+50.00

CLA-CR315-1.28

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS



END AREA		VOLUME	
CUT	FILL	CUT	FILL
40	3		
41	2		
34	2	75	5
		69	4
		67	3
		211	12

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD
STA. 216+00.00 TO STA. 217+00.00

CLA-CR315-1.28

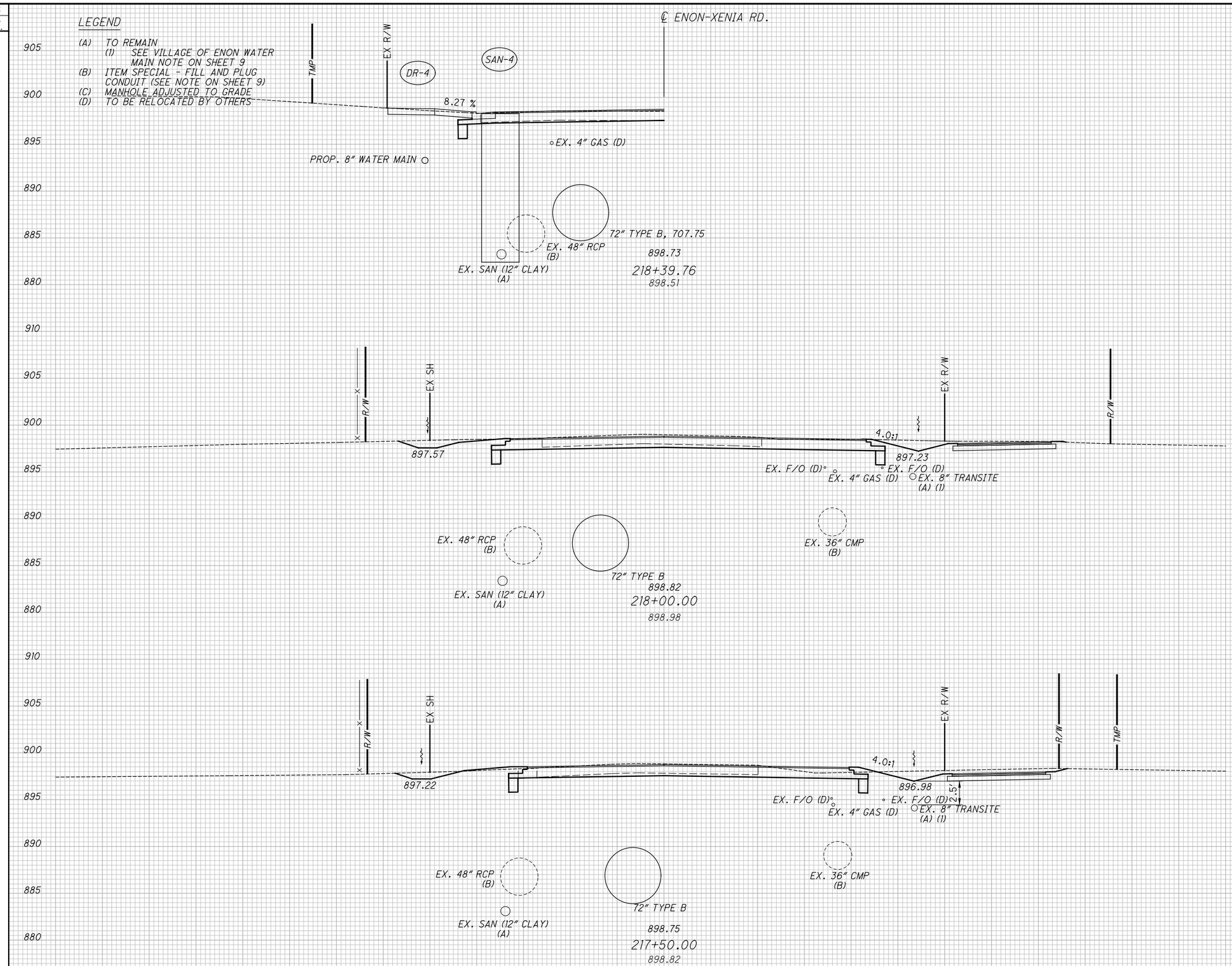
54
138

S:\CIN\4600-4699\4652\001\Drawings\CAD\09441roadway\sheets\09441XS001.dgn Sheet 2/28/2022 9:55:32 AM Allisonw

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(I) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS



END AREA		VOLUME	
CUT	FILL	CUT	FILL
48	0		
		81	2
39	2		
		73	5
		154	7

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD
STA. 217+50.00 TO STA. 218+39.76

CLA-CR315-1.28

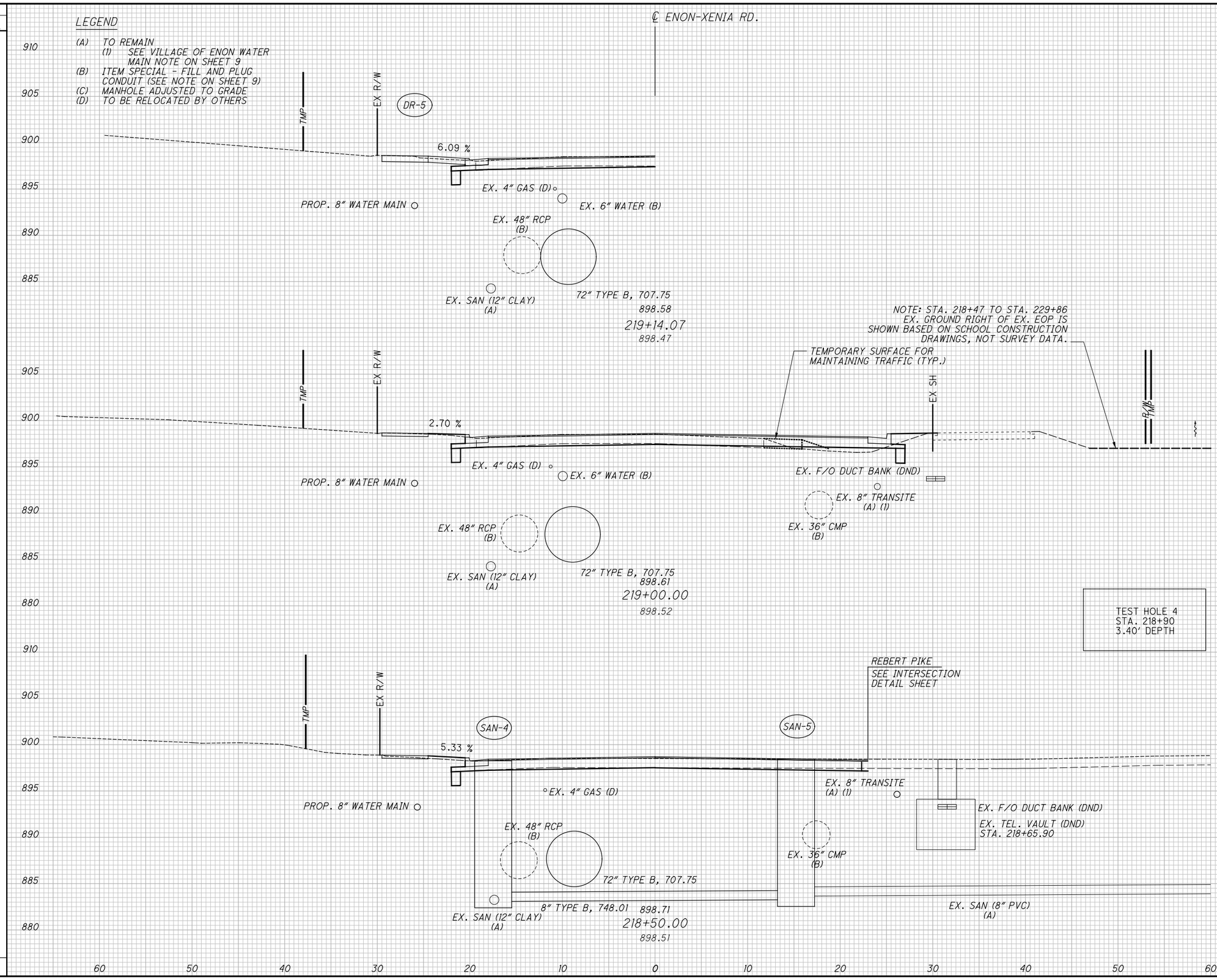
55
138

S:\CIN\4600--4699\4652\001\Drawings\CAD\09441\roadway\sheets\09441XS001.dgn Sheet 2/28/2022 9:55:35 AM Allisonw

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS



END AREA		VOLUME	
CUT	FILL	CUT	FILL
10	7		
6	1		
		15	7
		50	1
		65	8

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD STA. 218+50.00 TO STA. 219+14.07

CLA-CR315-1.28

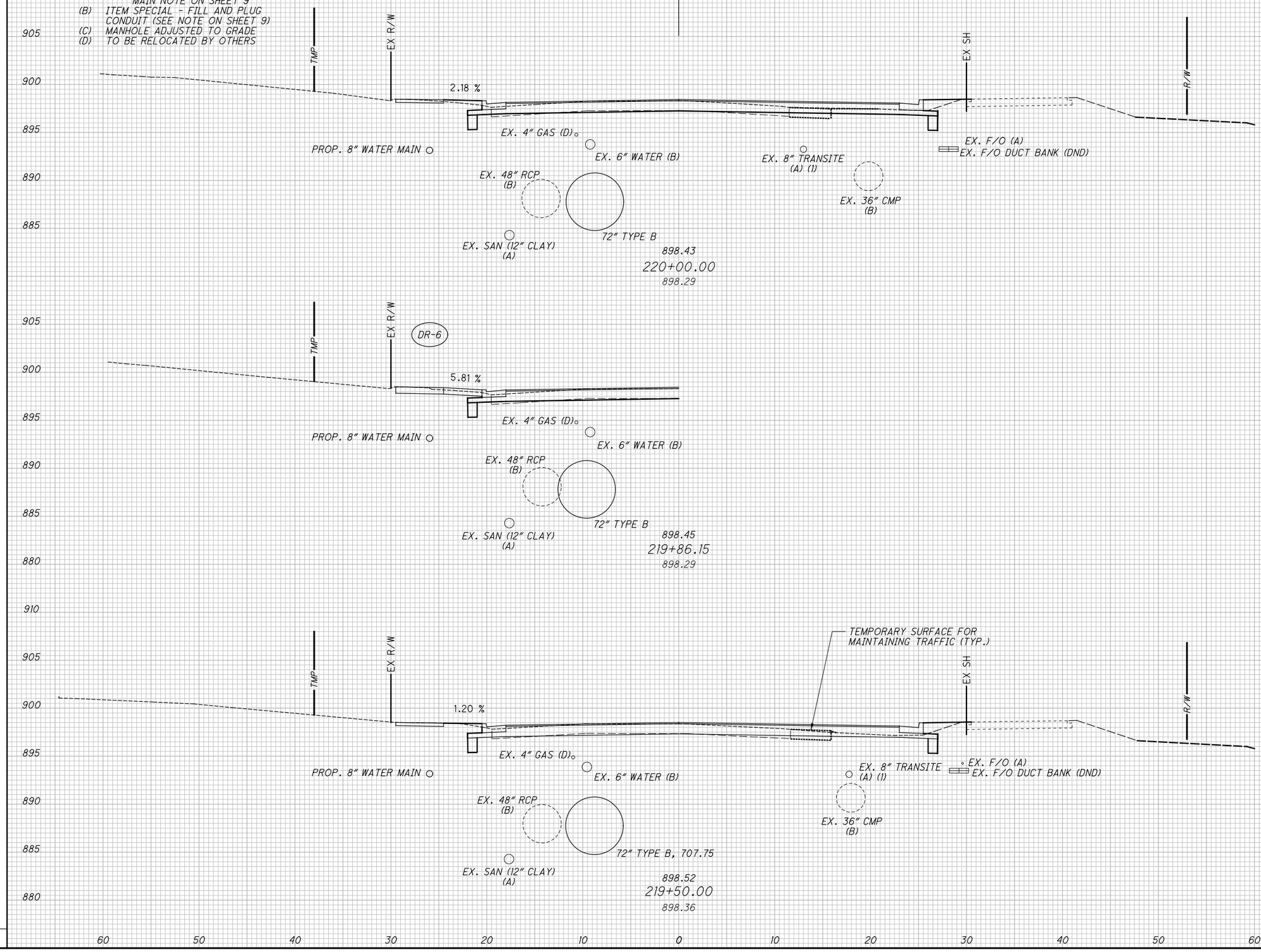
56
138

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS

℄ ENON-XENIA RD.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
15	6		
12	5		
		25	11
		20	11
		45	22

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD
STA. 219+50.00 TO STA. 220+00.00

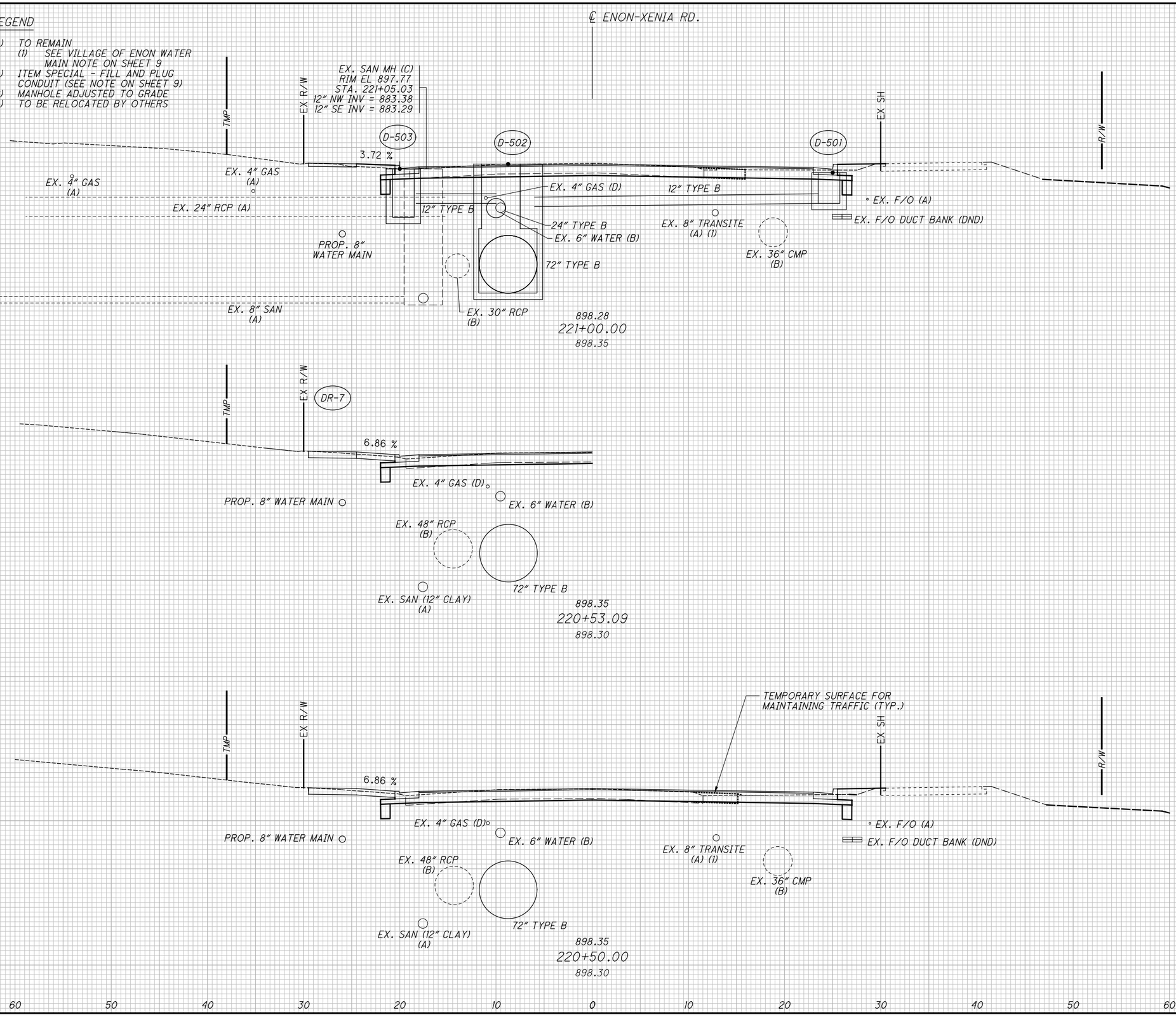
CLA-CR315-1.28

57
138

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS



END AREA		VOLUME	
CUT	FILL	CUT	FILL
24	3	41	6
20	3	32	8
		73	14

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD
STA. 220+50.00 TO STA. 221+00.00

CLA-CR315-1.28

58
138

S:\CIN\4600-4699\4652\001\Drawings\CAD\09441roadway\sheets\09441XS001.dgn Sheet 2/28/2022 9:55:42 AM Allisonw

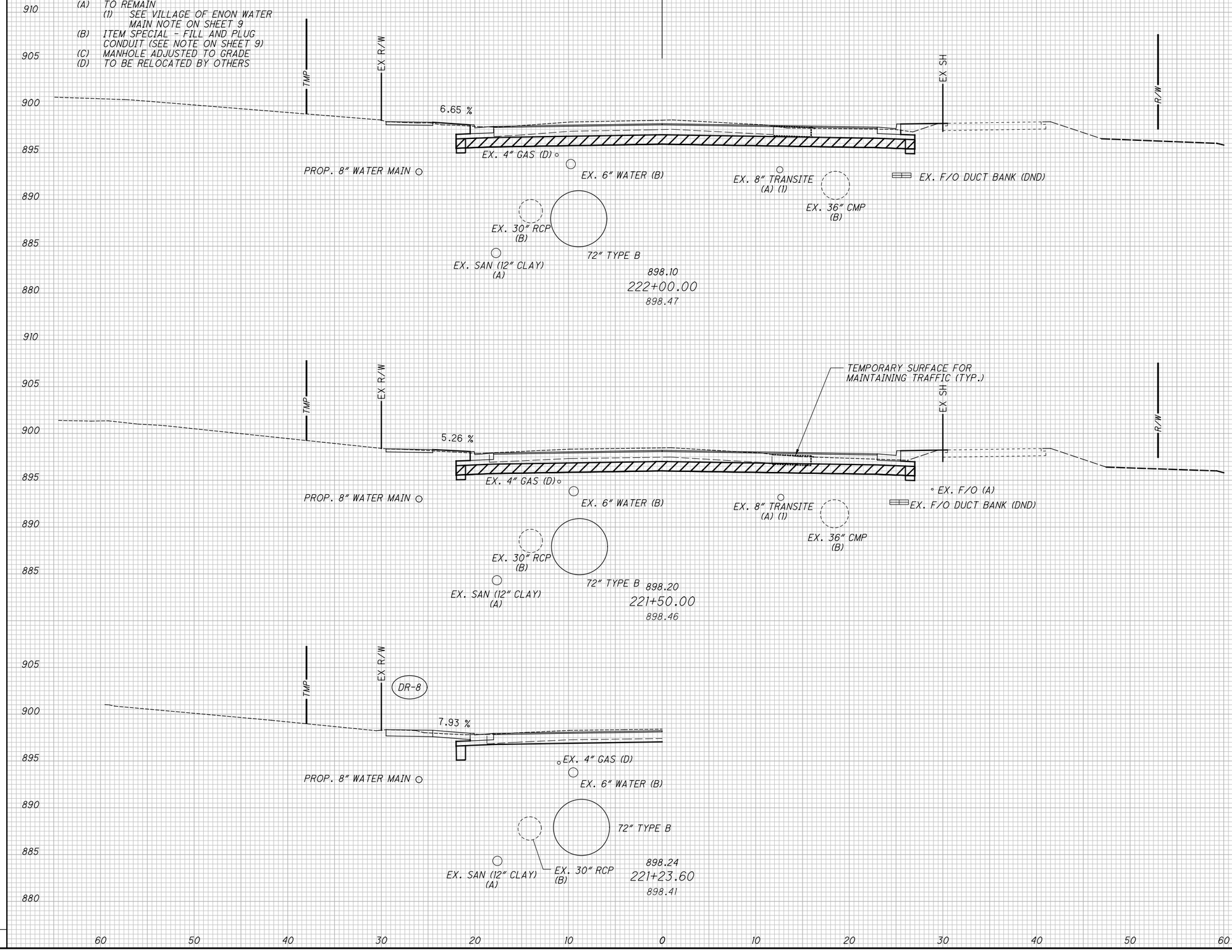
SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS

℄ ENON-XENIA RD.

ITEM 204 - EXCAVATION OF SUBGRADE
ITEM 204 - GRANULAR MATERIAL, TYPE B (12" DEEP)



END AREA		VOLUME	
CUT	FILL	CUT	FILL
30	3		
24	3		
		50	6
		44	6
		94	12

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD
STA. 221+23.60 TO STA. 222+00.00

CLA-CR315-1.28

59
138

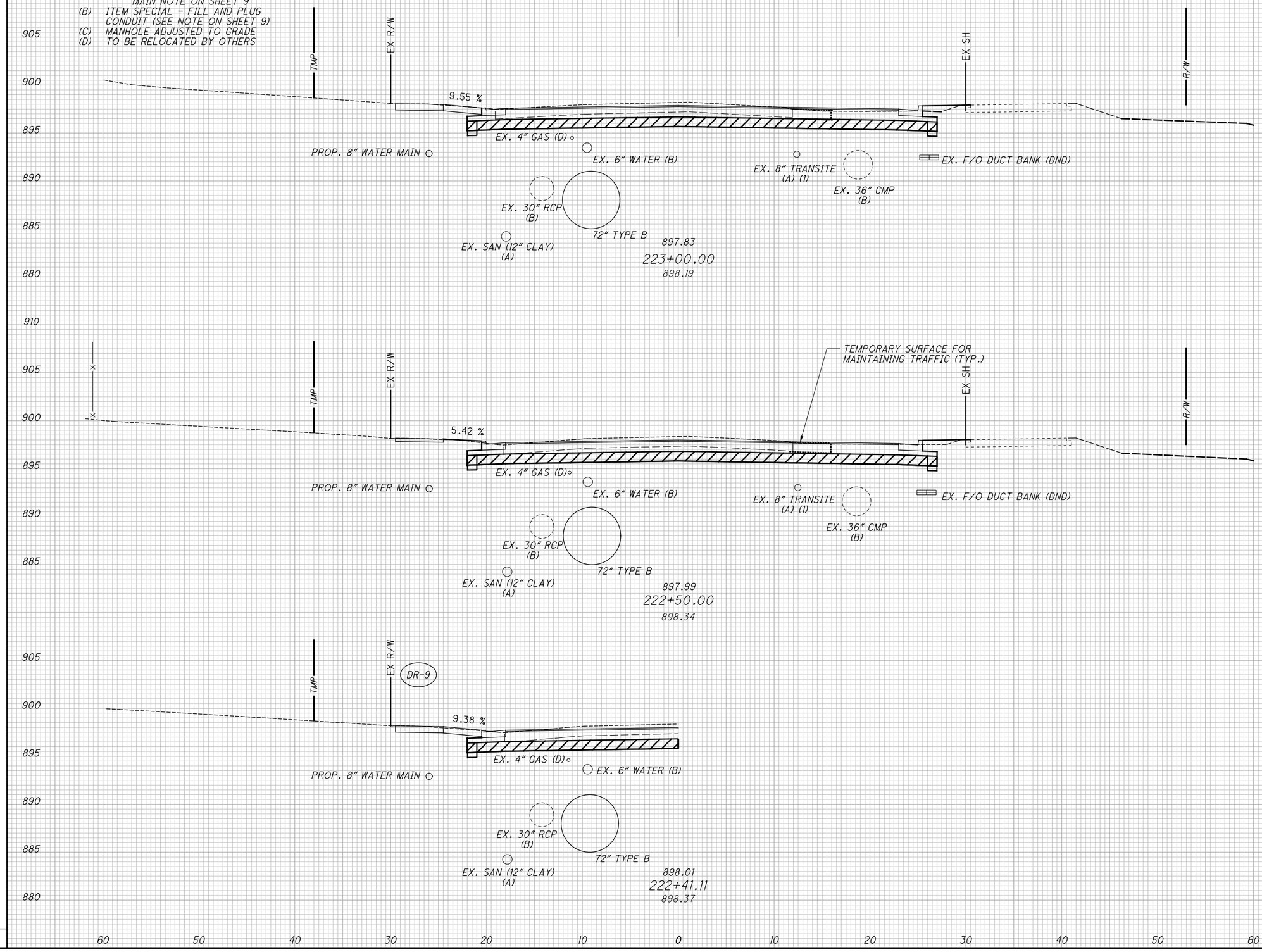
SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS

℄ ENON-XENIA RD.

ITEM 204 - EXCAVATION OF SUBGRADE
ITEM 204 - GRANULAR MATERIAL, TYPE B (12" DEEP)



END AREA		VOLUME	
CUT	FILL	CUT	FILL
27	2		
30	2		
		53	4
56	5		
		109	9

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD STA. 222+41.11 TO STA. 223+00.00

CLA-CR315-1.28

60
138

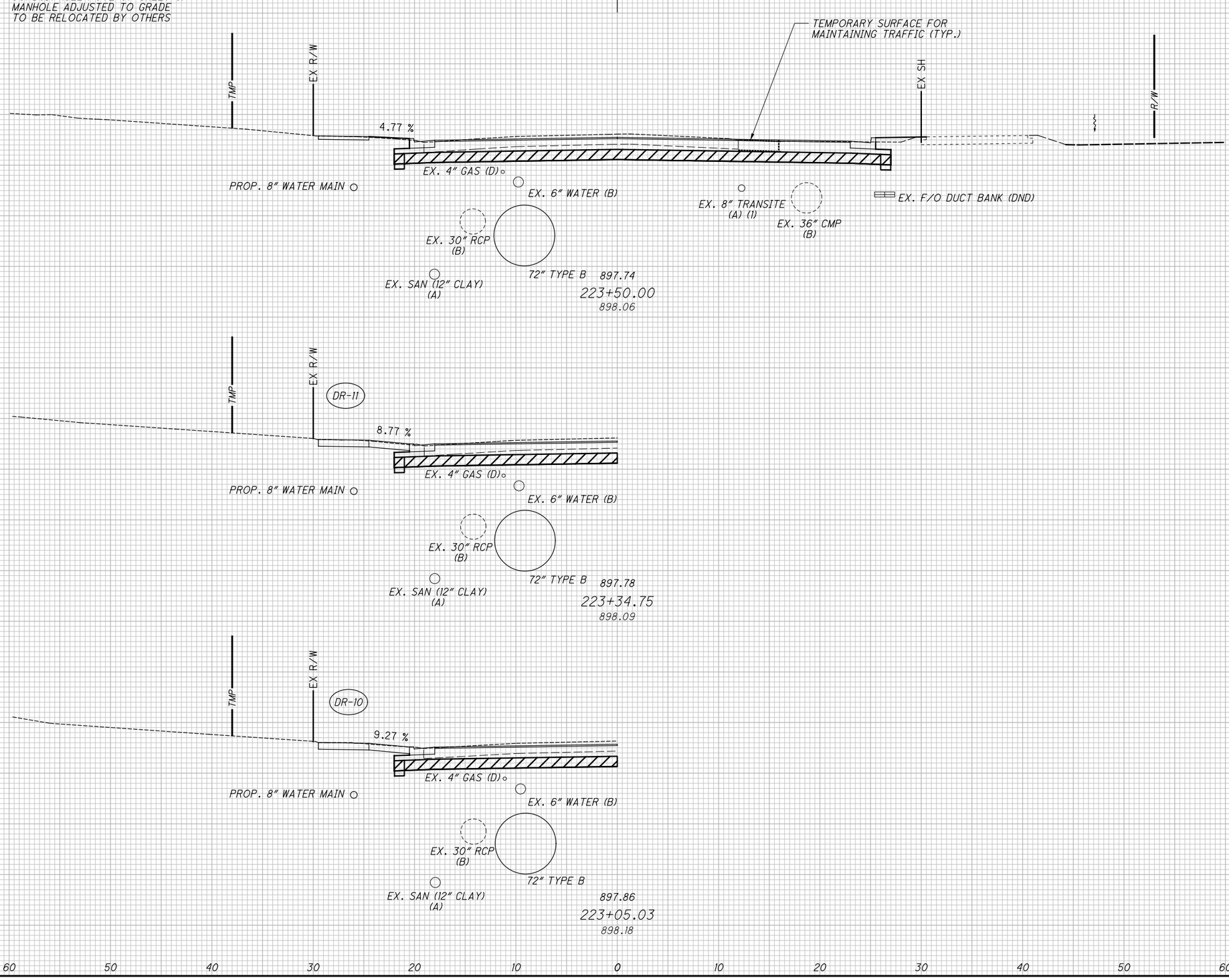
SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS

℄ ENON-XENIA RD.

ITEM 204 - EXCAVATION OF SUBGRADE
ITEM 204 - GRANULAR MATERIAL, TYPE B (12" DEEP)



END AREA		VOLUME	
CUT	FILL	CUT	FILL
29	2		
		52	4
		52	4

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD STA. 223+05.03 TO STA. 223+50.00

CLA-CR315-1.28

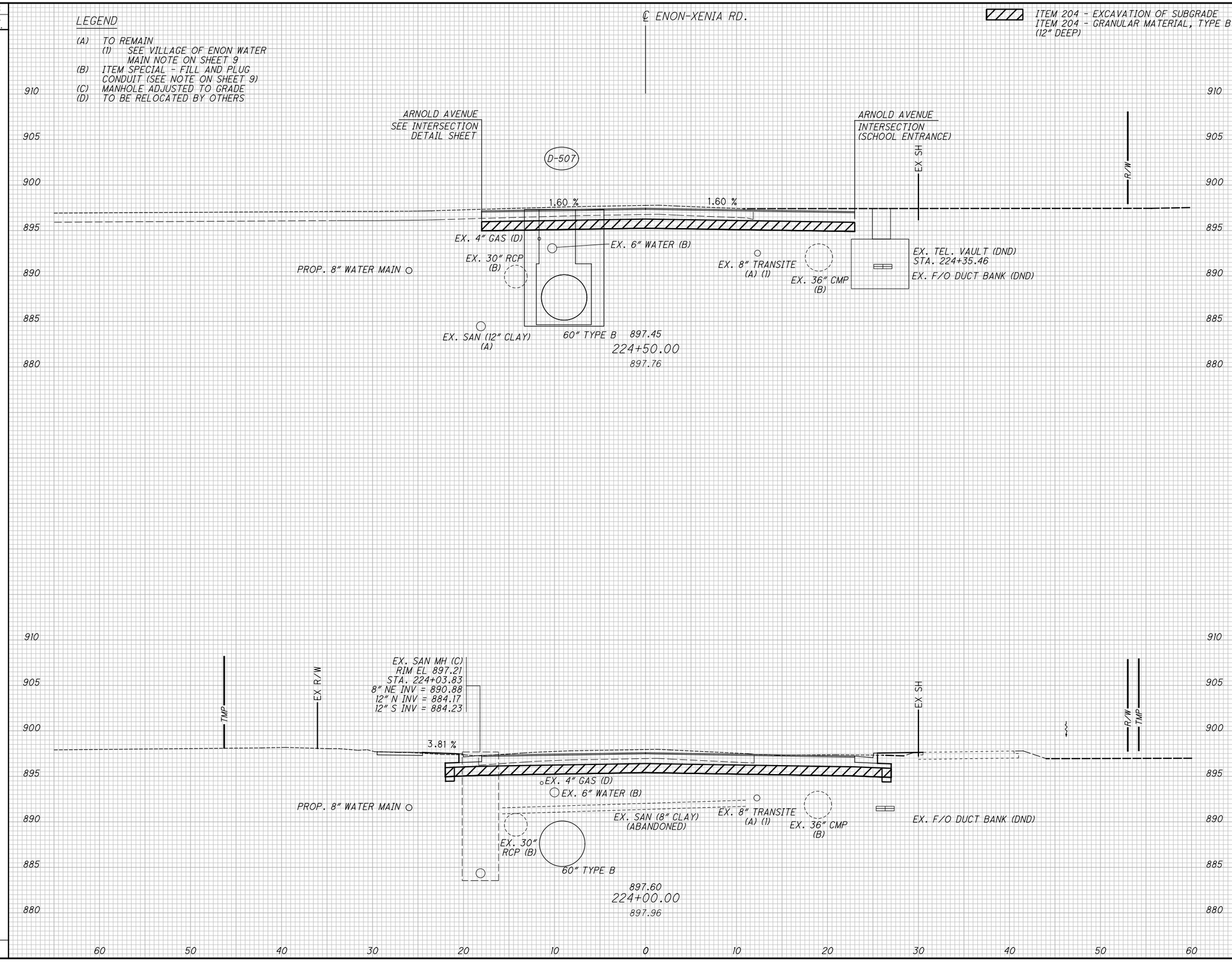
61
138

S:\CIN\4600-4699\4652\001\Drawings\CAD\09441roadway\sheets\09441XS001.dgn Sheet 2/28/2022 9:55:49 AM Allisonw

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS



END AREA		VOLUME	
CUT	FILL	CUT	FILL
34	2		
58	4		
58	4		

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD
STA. 224+00.00 TO STA. 224+50.00

CLA-CR315-1.28

62
138

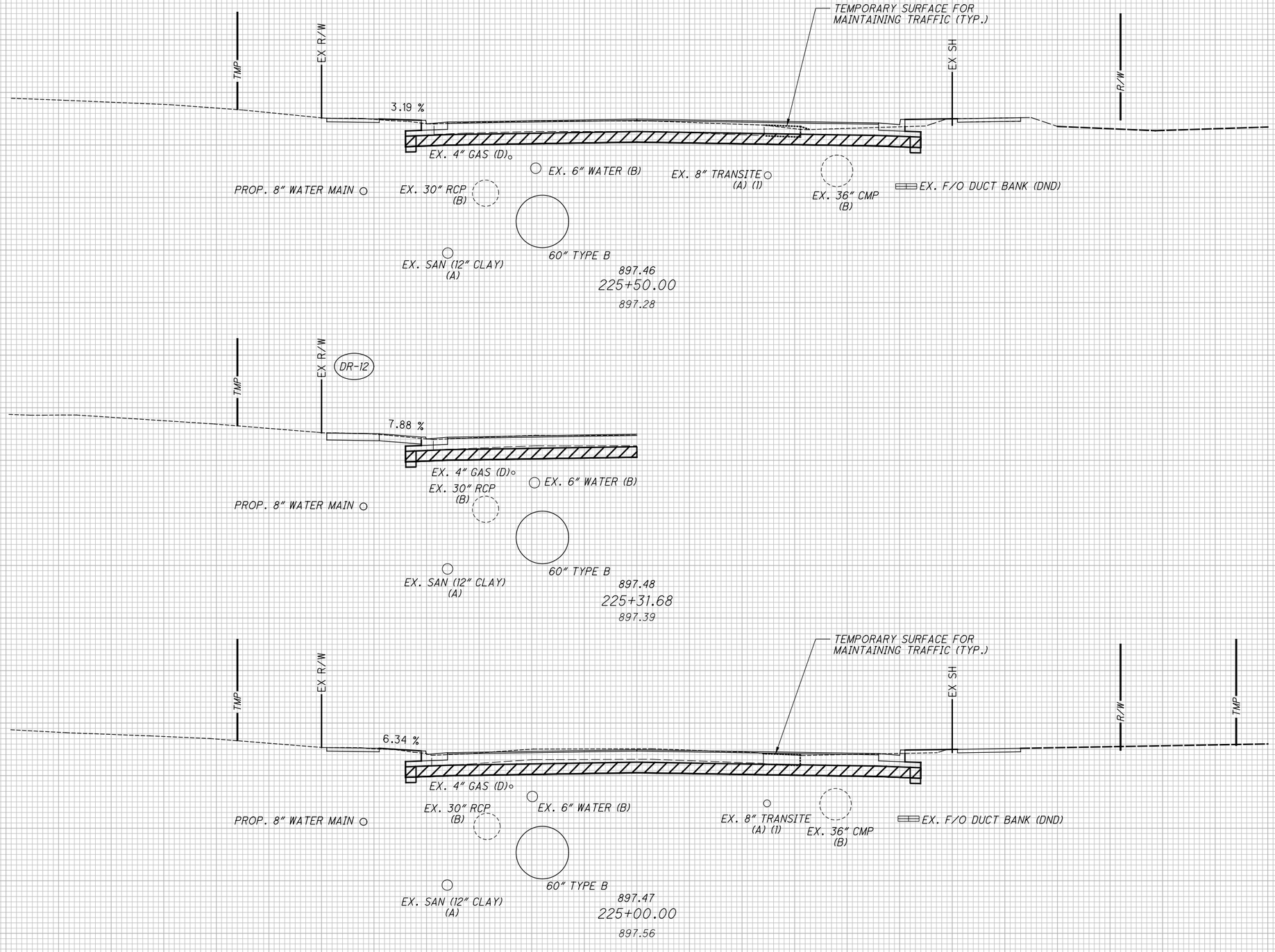
SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS

℄ ENON-XENIA RD.

ITEM 204 - EXCAVATION OF SUBGRADE
ITEM 204 - GRANULAR MATERIAL, TYPE B (12" DEEP)



END AREA		VOLUME	
CUT	FILL	CUT	FILL
12	3		
		33	5
24	2		
		107	7
		140	12

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD
STA. 225+00.00 TO STA. 225+50.00

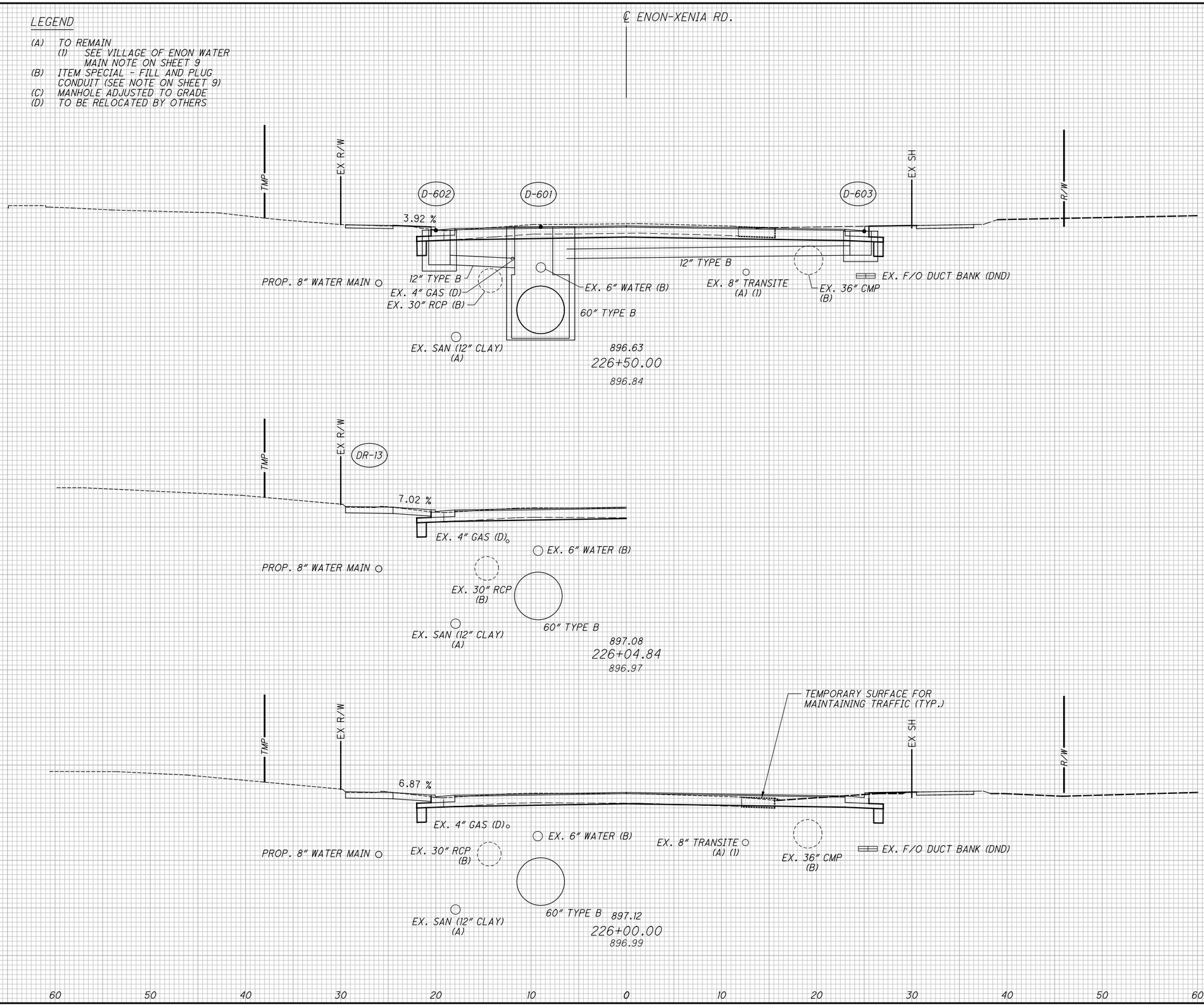
CLA-CR315-1.28

63
138

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS



END AREA		VOLUME	
CUT	FILL	CUT	FILL
34	0		
		51	1
21	1		
		31	4
		82	5

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD
STA. 226+00.00 TO STA. 226+50.00

CLA-CR315-1.28

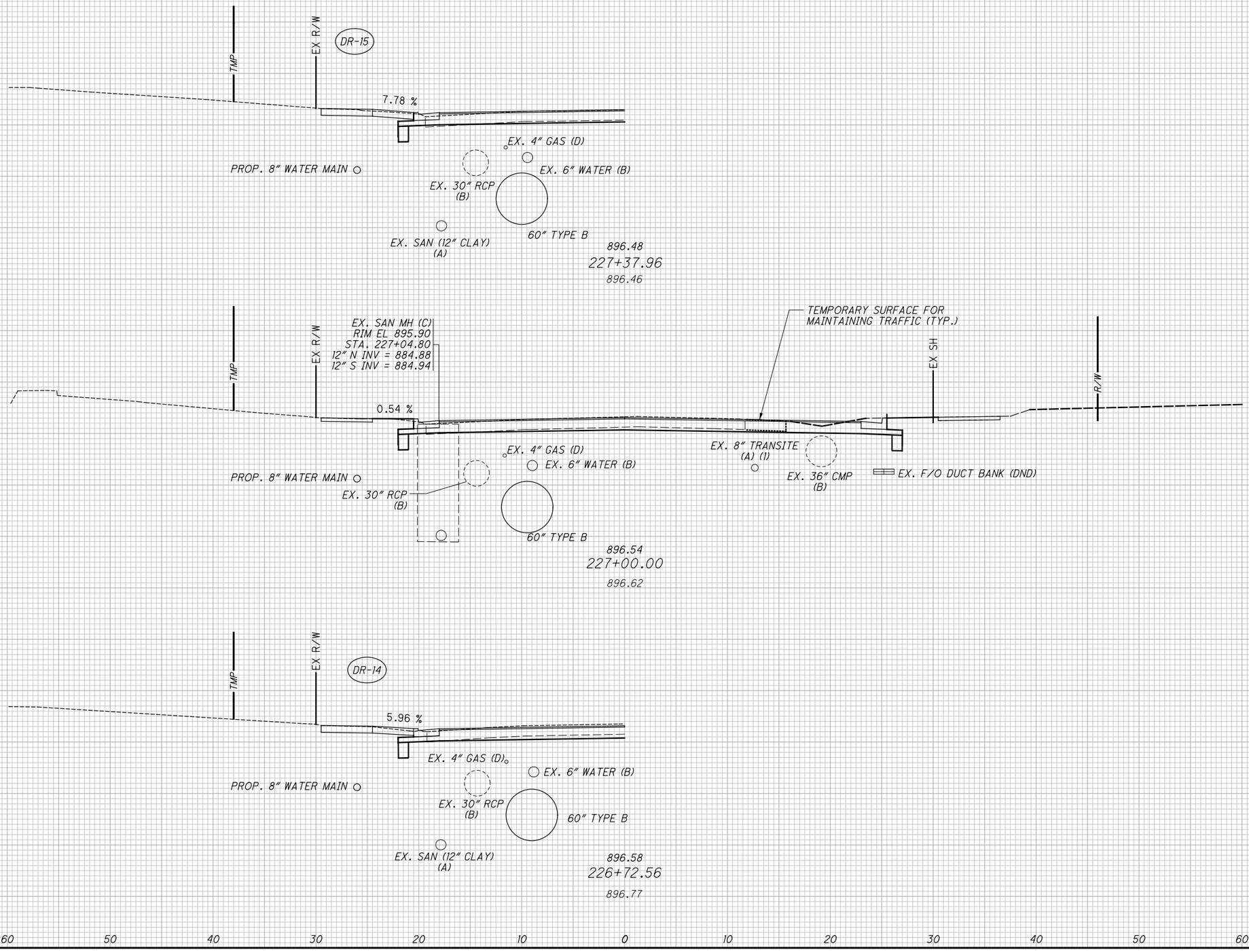
64
138

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS

℄ ENON-XENIA RD.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
26	0		
		56	1
		56	1

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD
STA. 226+72.56 TO STA. 227+37.96

CLA-CR315-1.28

65
138

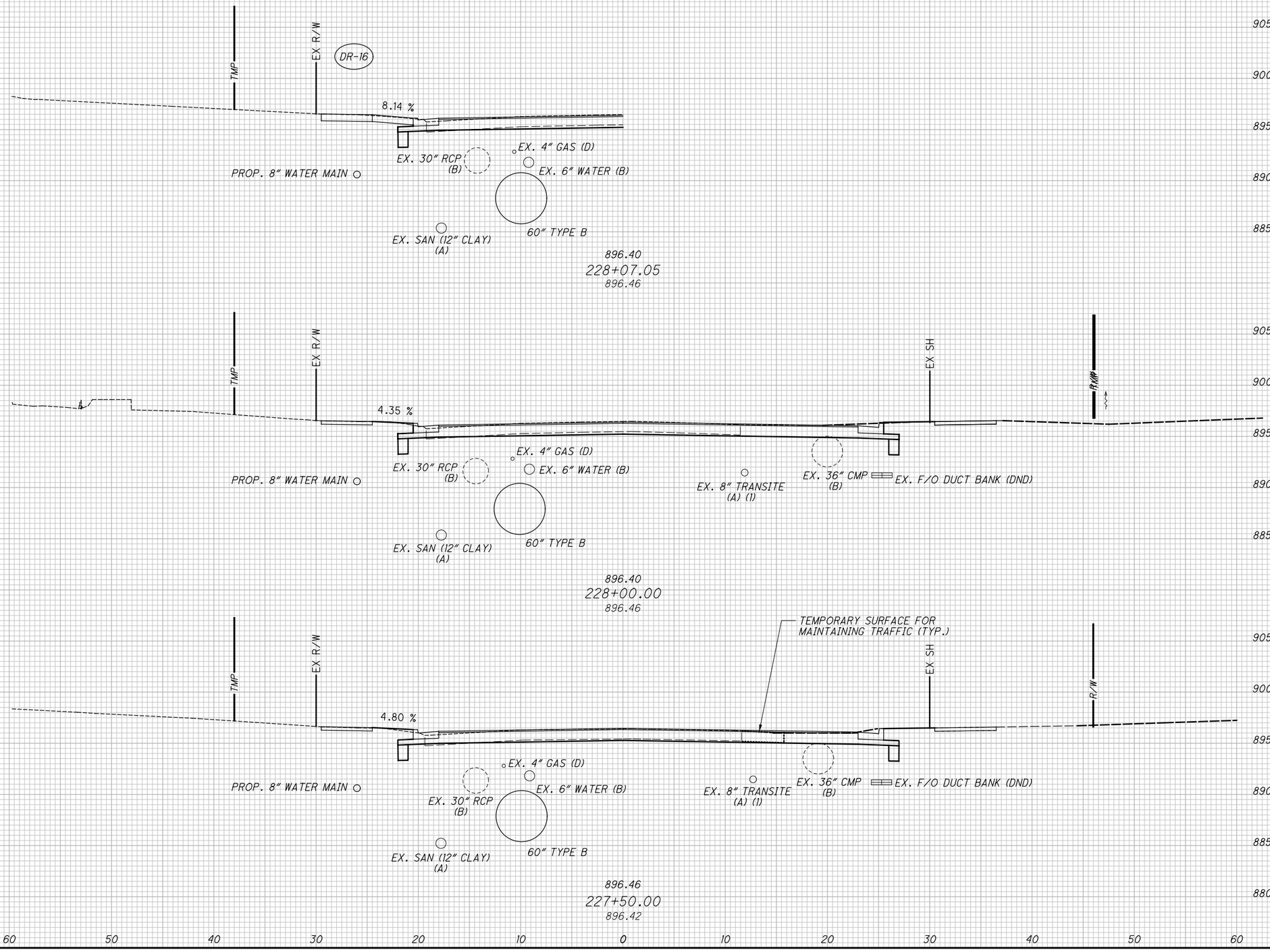
S:\CIN\4600-4699\4652\001\Drawings\CAD\09441roadway\sheets\09441XS001.dgn Sheet 2/28/2022 9:55:58 AM Allisonw

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS

℄ ENON-XENIA RD.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
29	0		
		50	1
25	0		
		47	1
		97	2

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD STA. 227+50.00 TO STA. 228+07.05

CLA-CR315-1.28

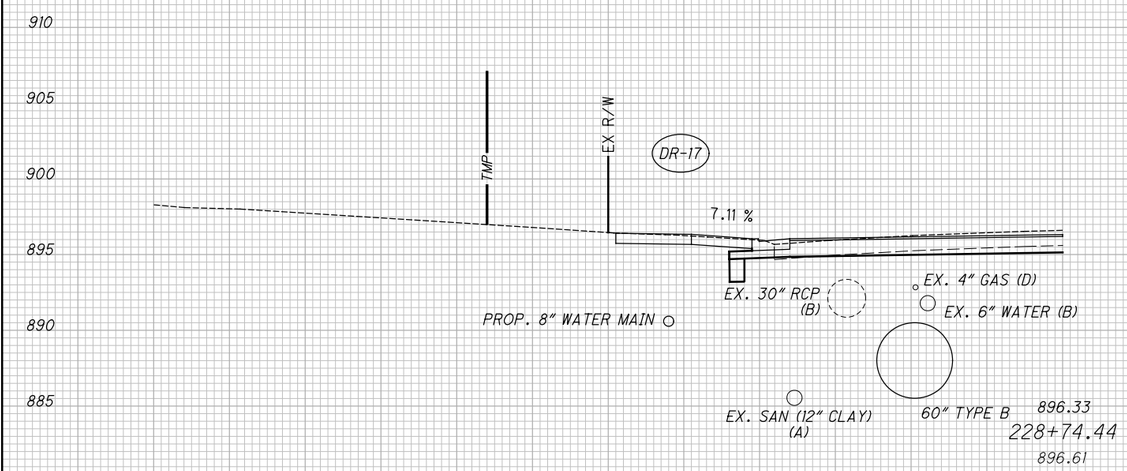
66
138

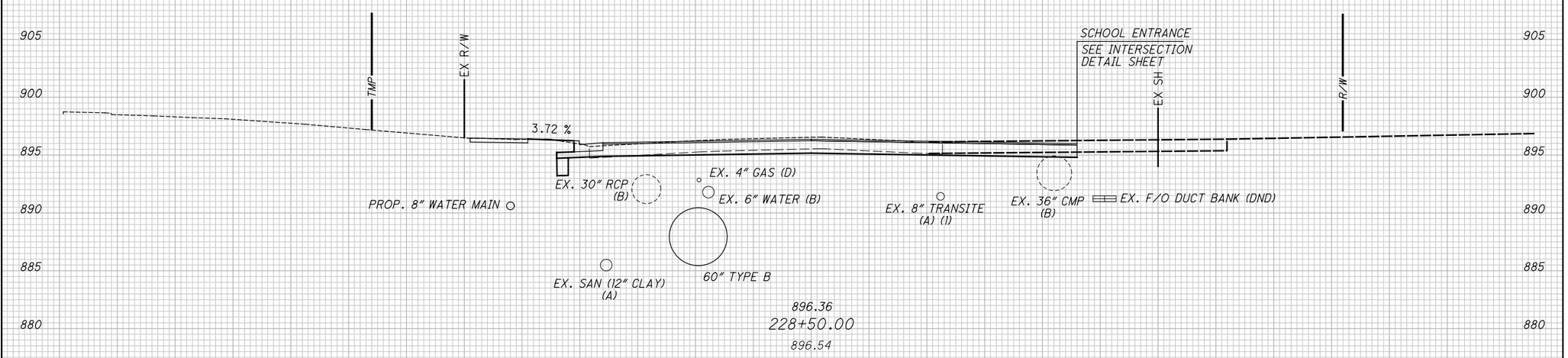
SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS

℄ ENON-XENIA RD.





60 50 40 30 20 10 0 10 20 30 40 50 60

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		10	0
		36	1
		36	1

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD
STA. 228+34.12 TO STA. 228+74.44

CLA-CR315-1.28

67
138

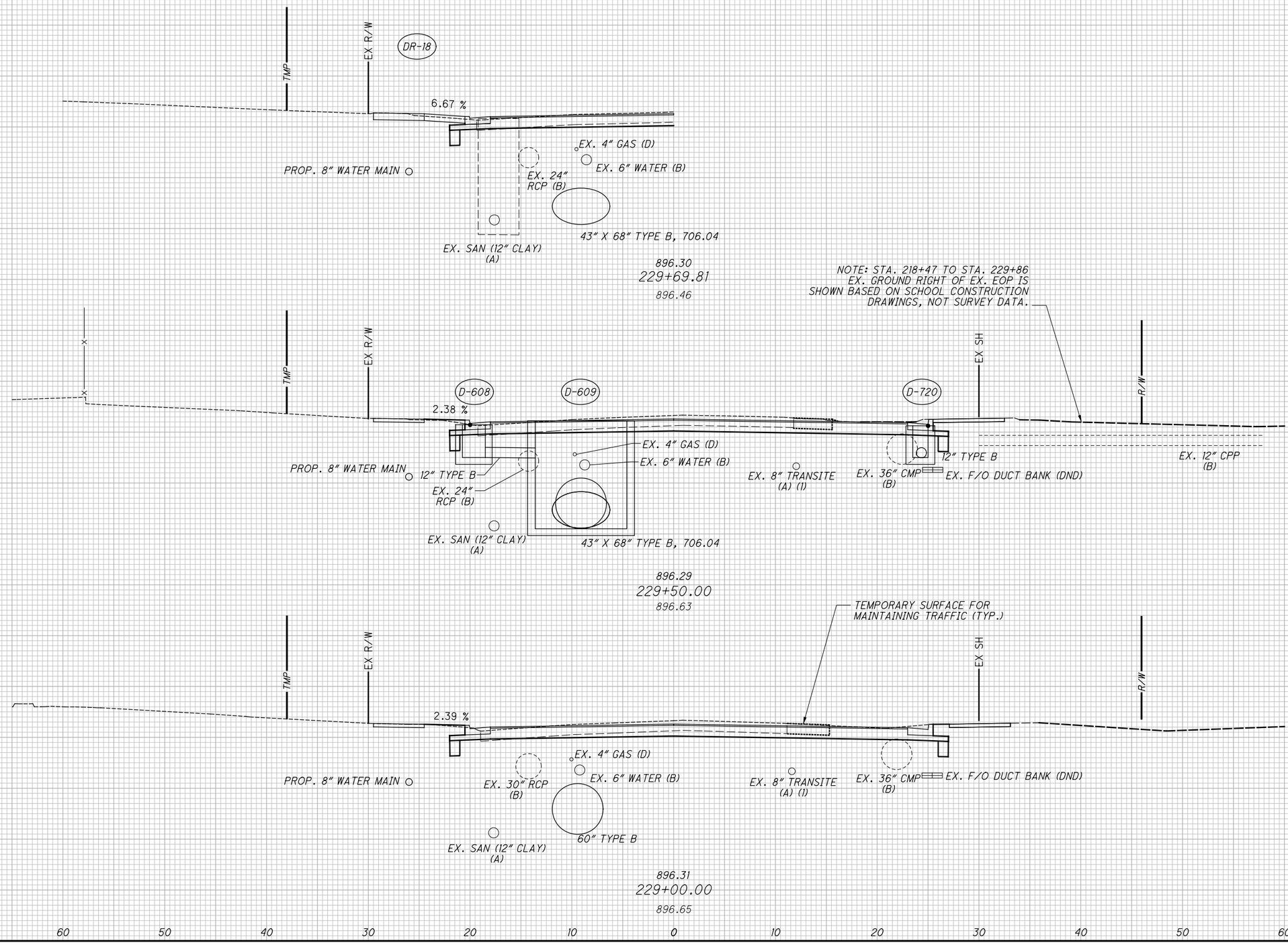
S:\CIN\4600-4699\4652\001\Drawings\CAD\09441roadway\sheets\09441XS001.dgn Sheet 2/28/2022 9:56:03 AM Allisonw

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS

℄ ENON-XENIA RD.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
35	0		
		66	1
36	0		
		43	1
		109	2

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD STA. 229+00.00 TO STA. 229+69.81

CLA-CR315-1.28

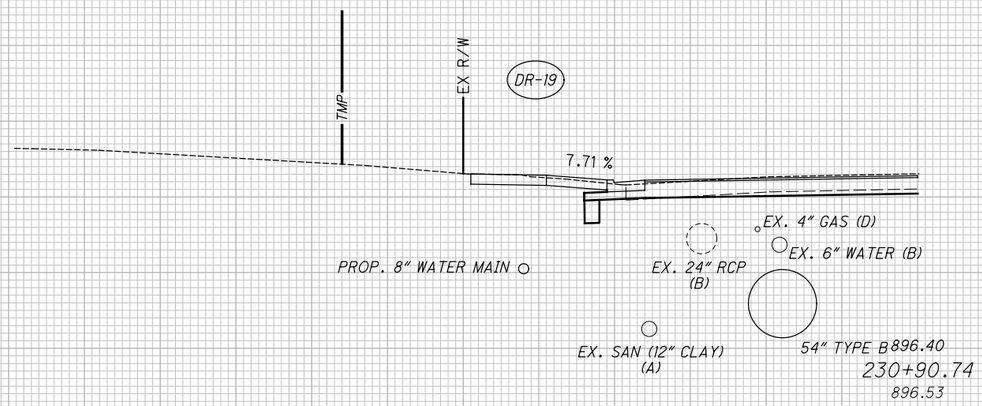
68
138

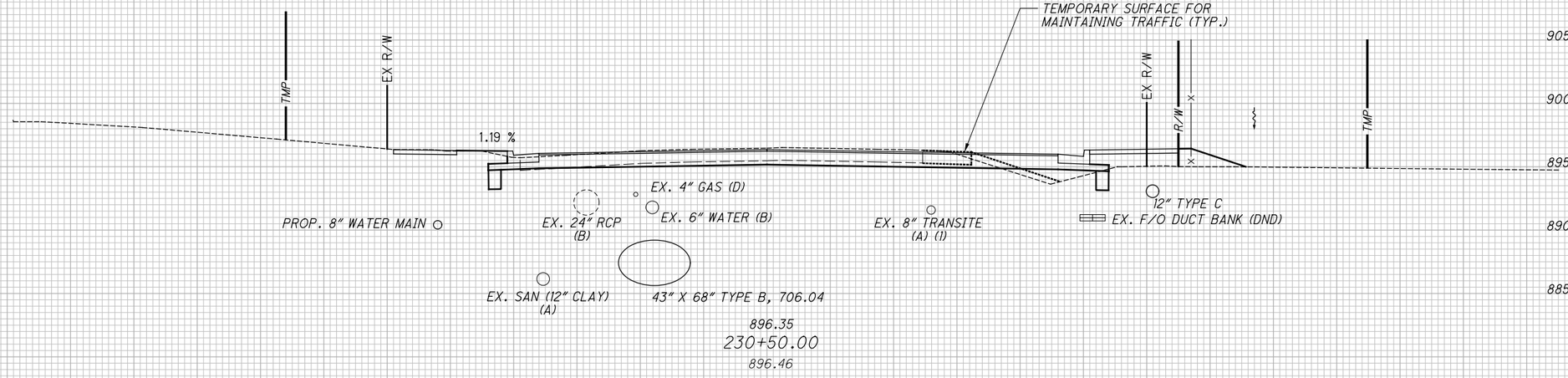
SEEDING	
END WIDTH	SQ. YDS.

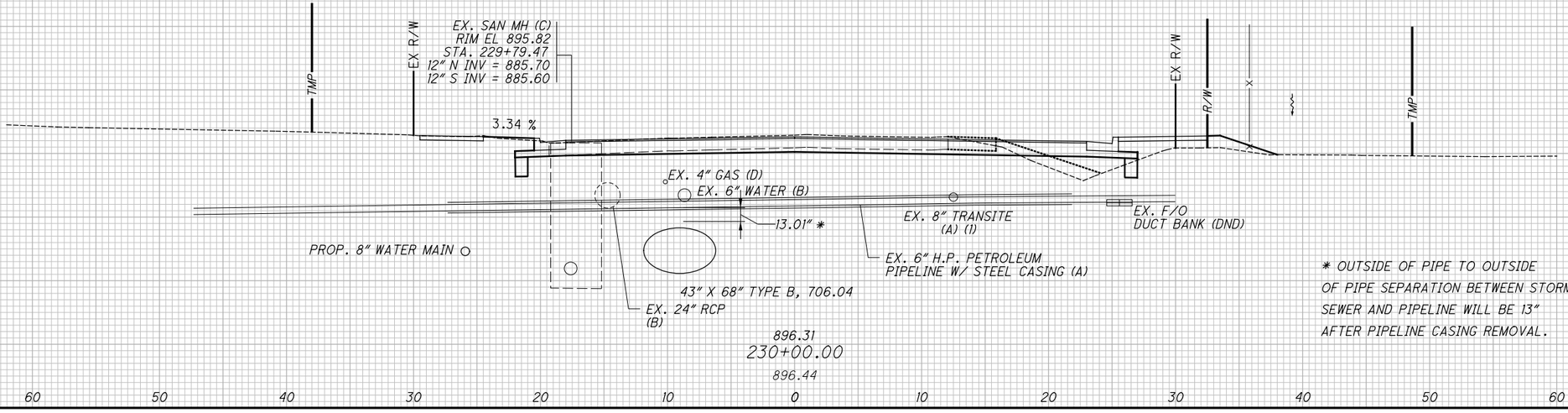
LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS

℄ ENON-XENIA RD.







* OUTSIDE OF PIPE TO OUTSIDE OF PIPE SEPARATION BETWEEN STORM SEWER AND PIPELINE WILL BE 13" AFTER PIPELINE CASING REMOVAL.

END AREA		VOLUME	
CUT	FILL	CUT	FILL
18	17		
		32	32
17	18		
		48	17
		80	49

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD STA. 230+00.00 TO STA. 230+90.74

CLA-CR315-1.28

69
138

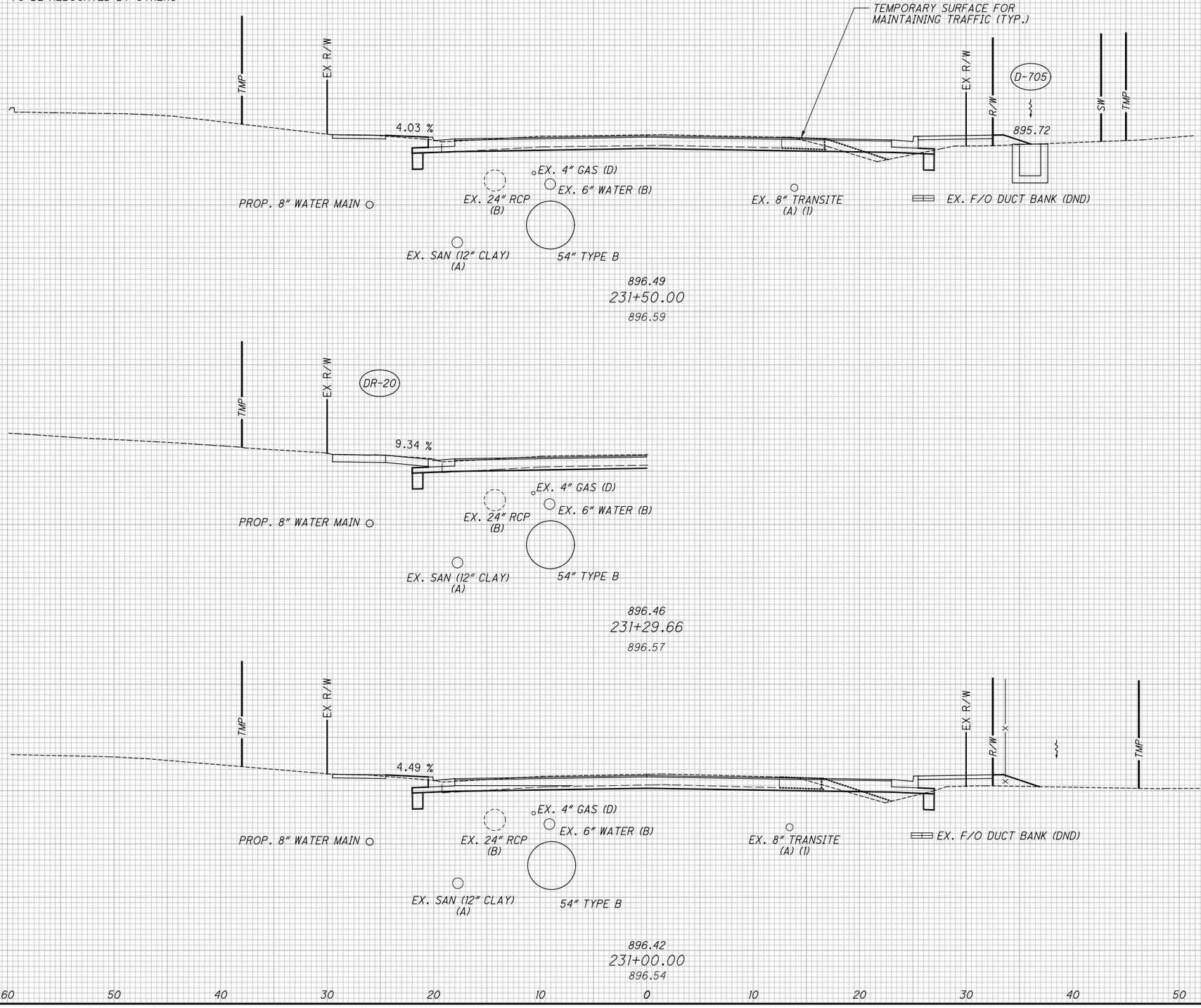
S:\CIN\4600-4699\4652\001\Drawings\CAD\09441roadway\sheets\09441XS001.dgn Sheet 2/28/2022 9:56:08 AM Allisonw

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS

℄ ENON-XENIA RD.



END AREA		VOLUME	
CUT	FILL	CUT	FILL
18	11		
		32	22
17	13		
		32	28
		64	50

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD STA. 231+00.00 TO STA. 231+50.00

CLA-CR315-1.28

70
138

SEEDING	
END WIDTH	SQ. YDS.

END AREA	
CUT	FILL

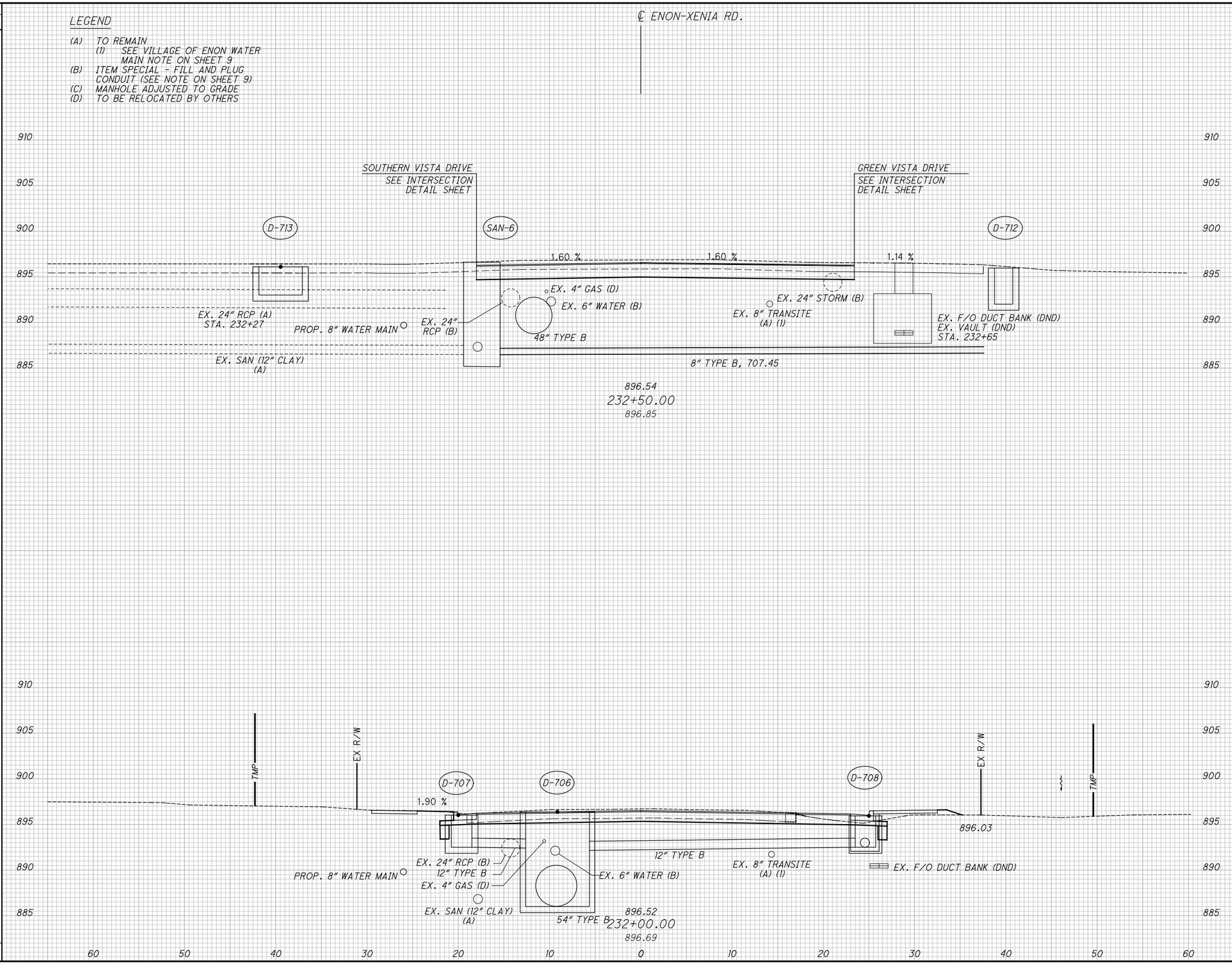
VOLUME	
CUT	FILL

CALCULATED ATW

CHECKED JCH

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS



24 4

39 14

39 14

CROSS SECTIONS ENON-XENIA ROAD
STA. 232+00.00 TO STA. 232+50.00

CLA-CR315-1.28

71
138

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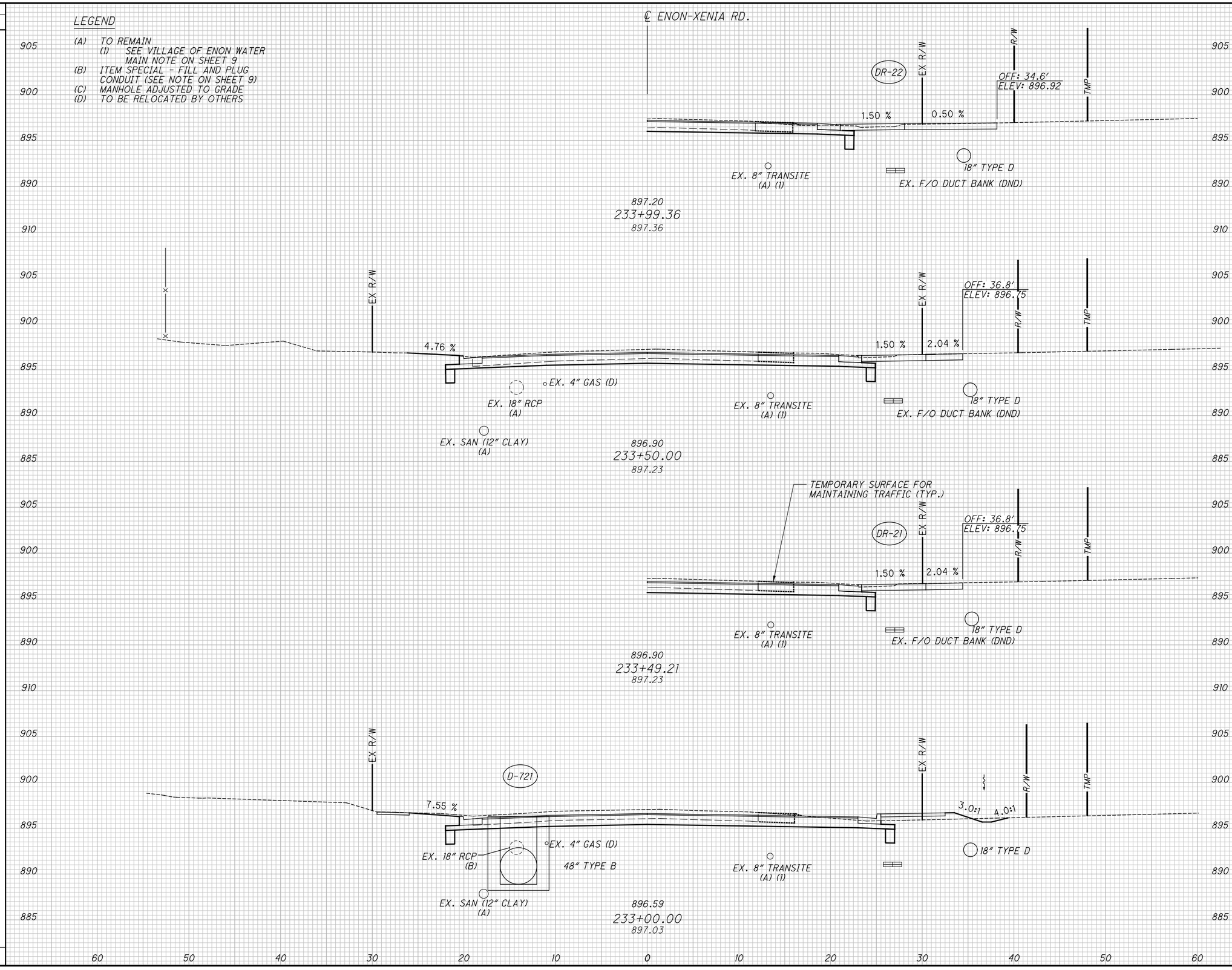
SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS



END AREA		VOLUME	
CUT	FILL	CUT	FILL
34	0		
69	4		
40	4		
119	15		
188	19		

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD STA. 233+00.00 TO STA. 233+99.36

CLA-CR315-1.28

72
138

SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS

℄ ENON-XENIA RD.

EX R/W
EX. SAN MH (C)
RIM EL 897.17
STA. 234+94.11
12" N INV = 889.17
12" S INV = 889.10
5.38 %
4.0:1
4.0:1
896.01
EX R/W
TMP
EX. 4" GAS (D)
EX. 18" RCP (A)
EX. 8" TRANSITE (A) (1)
EX. F/O DUCT BANK (DND)
897.70
235+00.00
897.69

EX R/W
DR-23
5.53 %
EX. 4" GAS (D)
EX. 18" RCP (A)
EX. SAN (12" CLAY) (A)
897.52
234+61.41
897.54
TEMPORARY SURFACE FOR MAINTAINING TRAFFIC (TYP.)

EX R/W
EX R/W
D-719
896.12
2.09 %
3.0:1
4.0:1
R/W
TMP
EX. 4" GAS (D)
EX. 18" RCP (A)
EX. 8" TRANSITE (A) (1)
18" TYPE D
EX. F/O DUCT BANK (DND)
EX. SAN (12" CLAY) (A)
897.47
234+50.00
897.50

EX R/W
EX R/W
R/W
TMP
OFF: 38.2'
ELEV: 896.93
2.26 %
1.50 %
0.50 %
EX. 4" GAS (D)
EX. 18" RCP (A)
EX. 8" TRANSITE (A) (1)
18" TYPE D
EX. F/O DUCT BANK (DND)
EX. SAN (12" CLAY) (A)
897.20
234+00.00
897.36

905 / 900 / 895 / 890 / 885

60 50 40 30 20 10 0 10 20 30 40 50 60

END AREA		VOLUME	
CUT	FILL	CUT	FILL
9	3		
		22	14
15	12		
24	0		
		36	11
		54	1
		112	26

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD
STA. 234+00.00 TO STA. 235+00.00

CLA-CR315-1.28

73
138

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SEEDING	
END WIDTH	SQ. YDS.

LEGEND

(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 9
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOTE ON SHEET 9)
(C) MANHOLE ADJUSTED TO GRADE
(D) TO BE RELOCATED BY OTHERS

℄ ENON-XENIA RD.

END PROJECT
236+45.36

EX R/W
6.20%
M.E.
M.E.
6.0:1
896.79
EX. 4" GAS (D)
EX. 18" RCP (A)
EX. SAN (12" CLAY) (A)
EX. 8" TRANSITE (A) (1)
EX. F/O DUCT BANK (DND)

898.21
235+71.31
898.21

EX R/W
DR-25
8.20%
EX. 4" GAS (D)
EX. 18" RCP (A)
EX. SAN (12" CLAY) (A)

898.08
235+55.22
898.05

TEMPORARY SURFACE FOR MAINTAINING TRAFFIC (TYP.)
EX R/W
OFF: 28.1'
ELEV: 897.69
TMP
8.24%
1.38 %
1.50 %
EX. 4" GAS (D)
EX. 18" RCP (A)
EX. 8" TRANSITE (A) (1)
EX. F/O DUCT BANK (DND)
EX. SAN (12" CLAY) (A)

898.04
235+50.00
898.02

EX R/W
DR-24
OFF: 28.1'
ELEV: 897.69
TMP
1.40 %
1.50 %
EX. 8" TRANSITE (A) (1)
EX. F/O DUCT BANK (DND)

898.03
235+49.20
898.01

60 50 40 30 20 10 0 10 20 30 40

END AREA		VOLUME	
CUT	FILL	CUT	FILL
6	0	11	1
6	0	14	3
		25	4
		3296	611

TOTALS CARRIED TO GENERAL SUMMARY

CALCULATED ATW
CHECKED JCH

CROSS SECTIONS ENON-XENIA ROAD
STA. 235+49.20 TO STA. 235+71.31

CLA-CR315-1.28

74
138

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CENTERLINE CONTROL		RIGHT SIDE						
STA	PROFILE GRADE	WIDTH (FT)	CROSS SLOPE	E. CORRECTION	EDGE EL.	TRANSITION RATE	DESC.	CURVE
200+97.05	883.66	12.00	-1.46%	-0.18	883.48	312.5:1	BEGIN PROJECT MATCH EXISTING CROSS SLOPE	CURVE 2 55 MPH
201+00.00	883.67	12.00	-1.37%	-0.16	883.51			
201+19.82	883.75	12.00	-0.73%	-0.09	883.66		PC	
201+25.00	883.77	12.00	-0.57%	-0.07	883.70			
201+42.67	883.83	12.00	0.00%	0.00	883.83		ZERO	
201+50.00	883.86	12.00	0.00%	0.00	883.86			
201+75.00	883.96	12.00	0.00%	0.00	883.96			
202+00.00	884.08	12.00	0.00%	0.00	884.08			
202+25.00	884.27	12.00	0.00%	0.00	884.27			
202+50.00	884.46	12.00	0.00%	0.00	884.46			
202+75.00	884.63	12.00	0.00%	0.00	884.63			
203+00.00	884.76	12.00	0.00%	0.00	884.76			
203+25.00	884.85	12.00	0.00%	0.00	884.85			
203+50.00	884.91	12.00	0.00%	0.00	884.91			
203+61.51	884.92	12.00	0.00%	0.00	884.92	312.5:1	ZERO PT	
203+75.00	884.93	12.00	-0.43%	-0.05	884.88			
204+00.00	884.91	12.00	-1.23%	-0.15	884.76			
204+11.51	884.89	12.00	-1.60%	-0.19	884.70		NC	
STA 204+11.51 TO STA 205+52.55 NORMAL CROWN								
205+52.55	884.21	12.00	-1.60%	-0.19	884.02	312.5:1	NC	CURVE 3 55 MPH
205+75.00	884.10	12.00	-0.88%	-0.11	883.99			
206+00.00	884.00	12.00	-0.08%	-0.01	883.99			
206+02.55	883.99	12.00	0.00%	0.00	883.99		ZERO PC	
206+25.00	883.93	12.00	0.00%	0.00	883.93			
206+50.00	883.90	12.00	0.00%	0.00	883.90			
206+57.04	883.89	12.00	0.00%	0.00	883.89	312.5:1	ZERO PT	
206+75.00	883.90	12.00	-0.57%	-0.07	883.83			
207+00.00	883.94	12.00	-1.37%	-0.16	883.78			
207+07.04	883.95	12.00	-1.60%	-0.19	883.76		NC	
STA 207+07.04 TO STA 209+29.17 NORMAL CROWN								
209+29.17	884.77	12.00	-1.60%	-0.19	884.58	312.5:1	NC	CURVE 4 35 MPH
209+50.00	884.88	12.00	-0.93%	-0.11	884.77			
209+75.00	885.01	12.00	-0.13%	-0.02	884.99			
209+79.17	885.04	12.00	0.00%	0.00	885.04		ZERO PC	
210+00.00	885.15	12.00	0.00%	0.00	885.15			
210+25.00	885.28	12.00	0.00%	0.00	885.28			
210+50.00	885.40	12.00	0.00%	0.00	885.40			
210+75.00	885.53	12.00	0.00%	0.00	885.53			
211+00.00	885.65	12.00	0.00%	0.00	885.65			
211+25.00	885.78	12.00	0.00%	0.00	885.78			
211+50.00	885.91	12.00	0.00%	0.00	885.91			
211+75.00	886.09	12.00	0.00%	0.00	886.09			
212+00.00	886.35	12.00	0.00%	0.00	886.35			
212+25.00	886.67	12.00	0.00%	0.00	886.67			
212+50.00	887.07	12.00	0.00%	0.00	887.07			
212+75.00	887.53	12.00	0.00%	0.00	887.53			
212+77.68	887.58	12.00	0.00%	0.00	887.58	312.5:1	ZERO PT	
213+00.00	888.06	12.00	-0.71%	-0.09	887.97			
213+25.00	888.67	12.00	-1.51%	-0.18	888.49			
213+27.68	888.74	12.00	-1.60%	-0.19	888.55		NC	

NOTES:

1. NEGATIVE CORRECTION MEANS BELOW PROFILE GRADE, POSITIVE CORRECTION MEANS ABOVE PROFILE GRADE.

2. LEFT SIDE IS MAINTAINED AT 1.60% THROUGHOUT ALL CURVES AND THEREFORE IS NOT SHOWN ON THIS SHEET.

CALCULATED ATW
CHECKED JCH

SUPERELEVATION TABLE

CLA-CR315-1.28

CURVE DATA FOR RADIUS RETURNS

CURVE NO.	RADIUS	INTERIOR ANGLE	LENGTH OF CURVE
1	135′	46°33′	105.63′
2	50′	75°04′	65.51′

ALL DISTANCES ARE MEASURED TO THE EDGE OF PAVEMENT.

CURVE 2
P.I. Sta. 202+41.26
Δ = 13° 50′ 52″ (LT)
Dc = 5° 43′ 46″
R = 1,000.00′
T = 121.44′
L = 241.69′
E = 7.35′
C = 241.10′
C.B. = N 40° 15′ 57″ E
PC Sta. 201+19.82

STA. 202+77.15
OFF 12.00 LT

STA. 202+83.87
OFF 15.53 LT

D-102 MH-3
RIM EL = 884.57

STA. 203+04.96 ℄ ENON-XENIA RD.
STA. 102+72.19 ℄ HUNTER RD.

STA. 203+10.85
OFF 16.36 LT

SAN-1 MH-2
RIM EL = 884.44

PT Sta. 203+61.51

STA. 203+61.51
OFF. 12.00 LT

℄ ENON-XENIA RD.

ENON-XENIA RD (CR 315)

STA. 201+75.13
OFF 11.70 RT
ELEV 883.86

PC - CURVE 1
STA. 202+08.80
OFF 11.79 RT
ELEV 884.14

STA. 202+59.65
OFF 24.67 RT
ELEV 883.85

STA. 202+60.74
OFF 44.11 RT
ELEV 882.3±
(M.E.)

ASPHALT DRIVE

STA. 202+73.62
OFF 52.87 RT
ELEV 883.1±
(M.E.)

STA. 202+94.96
OFF 53.05 RT
883.91

PT - CURVE 1
STA. 202+97.99
OFF 56.83 RT
ELEV 884.0±
(M.E.)

STA. 203+16.40
OFF 56.18 RT
ELEV 884.7±
(M.E.)

GRADE BREAK (TYP.)

78°44′42″

N 33° 20′ 31″ E 884.91
50.0′
SUPERELEVATION TRANSITION

VARIES

PT - CURVE 2
STA. 203+76.95
OFF 12.00 RT
ELEV 883.87

℄ PROP. DITCH

STA. 203+36.25
OFF 33.21 RT
ELEV 884.45

STA. 203+63.99
OFF 23.00 RT
ELEV 883.92

CR-1

STA. 203+63.52
OFF 33.00 RT
ELEV 884.08

STA. 203+31.59
OFF 44.59 RT
ELEV 884.28

SAN-2 MH-3
RIM EL = 884.25

PC - CURVE 2
STA. 203+30.19
OFF 49.63 RT
ELEV 884.22

STA. 203+29.36
OFF 55.95 RT
ELEV 884.2± (M.E.)

HUNTER ROAD

℄ HUNTER RD.

NOTES:

1. ELEVATIONS ARE ON PAVEMENT UNLESS OTHERWISE NOTED
2. ELEVATIONS ALONG CURVES ARE SHOWN EVERY 10′ UNLESS OTHERWISE NOTED.
3. M.E. = MATCH EXISTING

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED ATW
CHECKED JCH

INTERSECTION DETAILS
ENON-XENIA ROAD & HUNTER ROAD

CLA-CR315-1.28

76
138

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CURVE DATA FOR RADIUS RETURNS

CURVE NO.	RADIUS	INTERIOR ANGLE	LENGTH OF CURVE
1	30′	68°34′	35.90′
2	35′	63°55′	39.04′

ALL DISTANCES ARE MEASURED TO THE EDGE OF PAVEMENT.

℄ ENON-XENIA RD. 206+24.79
℄ MATTHEWS AVE. 112+15.10
℄ ENON-XENIA RD.
86°29′15″
℄ MATTHEWS AVE.

CURVE 3
P.I. Sta. 206+29.80
Δ = 3° 07′ 19″ (LT)
Dc = 5° 43′ 46″
R = 1,000.00′
T = 27.25′
L = 54.49′
E = 0.37′
C = 54.48′
C.B. = N 31° 46′ 51″ E

PC Sta. 206+02.55
PT Sta. 206+57.04
D-202 MH-3
RIM EL = 883.94
D-203 MH-3
RIM EL = 883.62

℄ ENON-XENIA RD.
ENON-XENIA RD (CR 315)
205
N 33° 20′ 31″ E
884.50
884.36
884.23
884.10
884.00
206
883.93
883.90
207
883.90
883.94
884.01
N 30° 13′ 12″ E
884.10
12.0′
50.0′
1.6%
0%
SUPERELEVATION TRANSITION
GRADE BREAK
CROSS SLOPE TRANSITION

℄ PROP. DITCH
884.04
884.00
STA. 205+87.21
OFF 12.00 RT
ELEV 883.89
883.10
883.69
883.59
883.36
10.0′
6.5′
11.5′
11.1′
2%
D-203
883.67
883.93
883.89
883.63
883.40
8.5′
12.1′
13.2′
STA. 206+72.47
OFF 12.00 RT
ELEV 883.84
883.94
℄ PROP. DITCH
882.94
CR-2
882.87
882.89
882.92
CR-3
10.0′
D-201 CB-2-2B
GRATE EL = 882.57
883.26
52.6′
883.10
883.03
883.05
883.08
D-204 CB-2-2B
GRATE EL = 882.25
1
STA. 205+87.21, 42.4′ RT
STA. 111+75.83, 41.1′ LT
STA. 206+15.50
OFF 33.08 RT
ELEV 883.2±
(M.E.)
STA. 206+40.90
OFF 33.13 RT
ELEV 883.08±
(M.E.)
STA. 206+72.47, 47.0′ RT
STA. 111+66.09, 46.1′ RT
2
883.2 (EX.)
883.3 (EX.)
883.1 (EX.)
STA. 206+26.84
OFF 33.02 RT
ELEV 883.38±
(M.E.)
883.2 (EX.)
883.1 (EX.)
883.0 (EX.)
882.8 (EX.)
882.9 (EX.)
N 61° 35′ 35″ W
12.0′
℄ MATTHEWS AVE.
10.0′
10.0′
PT Sta. 111+42.43
MATTHEWS AVENUE

NOTES:

1. ELEVATIONS ARE ON PAVEMENT UNLESS OTHERWISE NOTED
2. ELEVATIONS ALONG CURVES ARE SHOWN EVERY 10′ UNLESS OTHERWISE NOTED.
3. M.E. = MATCH EXISTING

HORIZONTAL SCALE IN FEET
0 5 10 20
CALCULATED ATW
CHECKED JCH

INTERSECTION DETAILS
ENON-XENIA ROAD & MATTHEWS AVENUE

CLA-CR315-1.28

77
138

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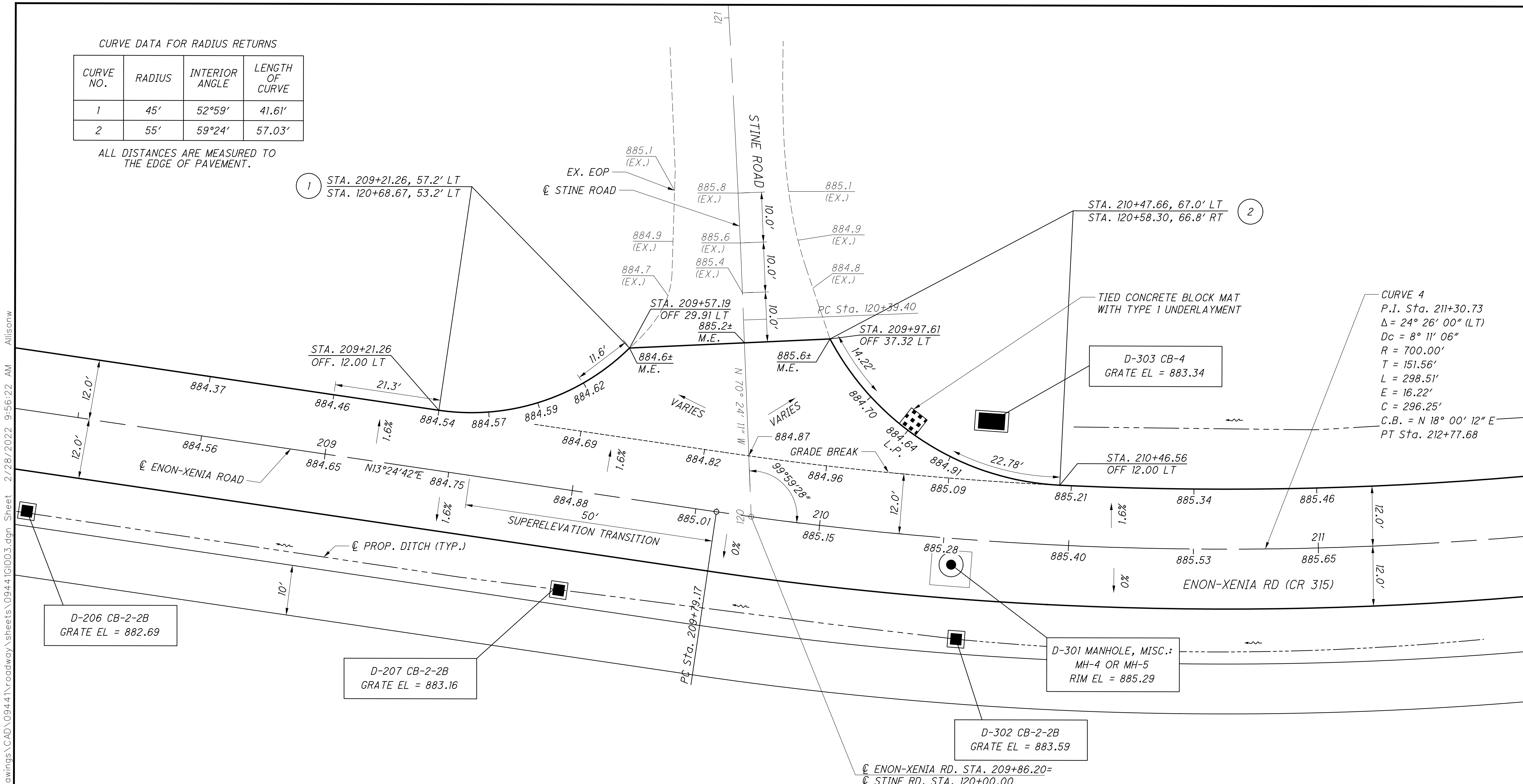
CURVE DATA FOR RADIUS RETURNS

CURVE NO.	RADIUS	INTERIOR ANGLE	LENGTH OF CURVE
1	45'	52°59'	41.61'
2	55'	59°24'	57.03'

ALL DISTANCES ARE MEASURED TO THE EDGE OF PAVEMENT.



NOTES:

1. ELEVATIONS ARE ON PAVEMENT UNLESS OTHERWISE NOTED
2. ELEVATIONS ALONG CURVES ARE SHOWN EVERY 10' UNLESS OTHERWISE NOTED.
3. M.E. = MATCH EXISTING

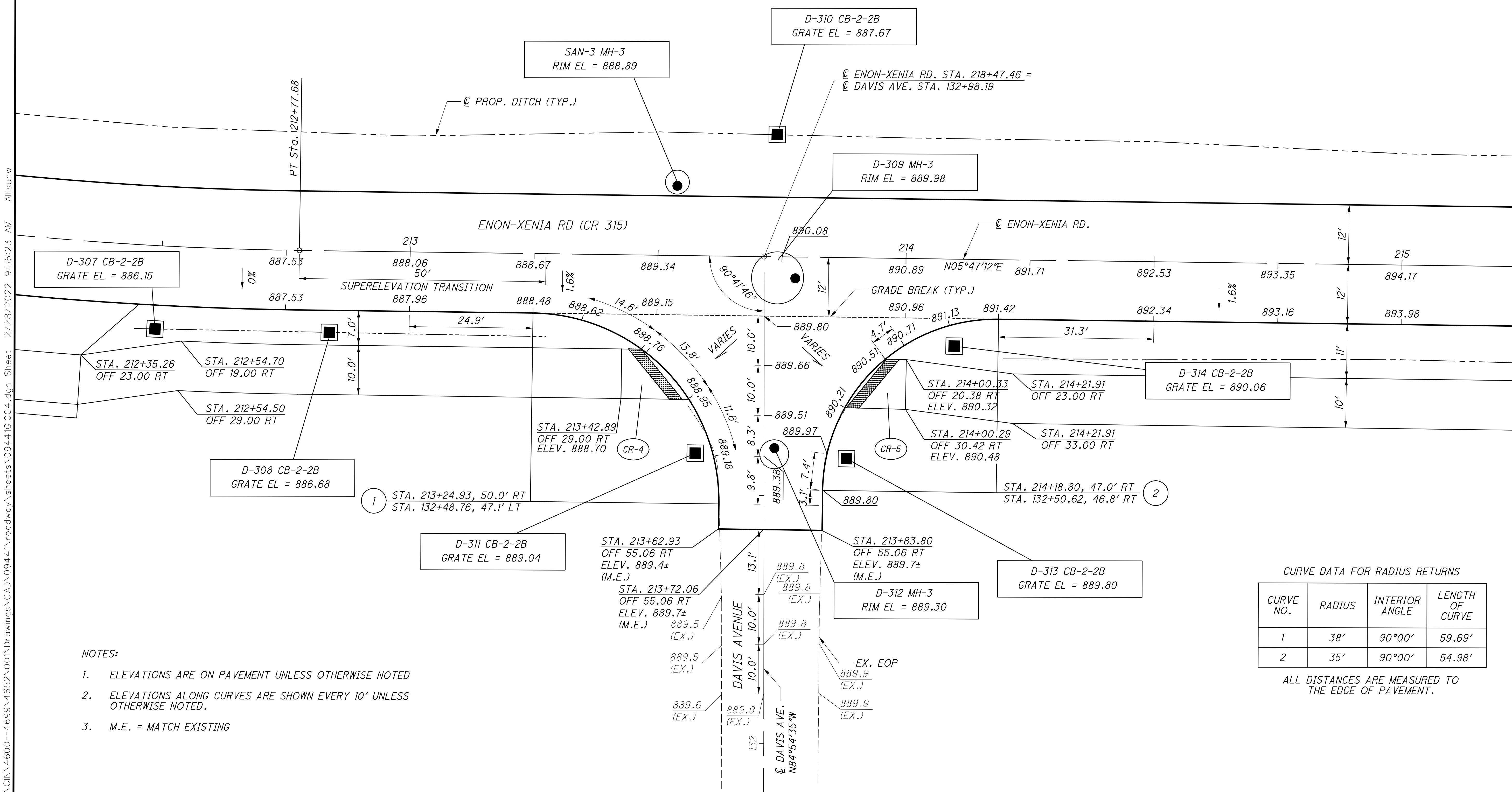
HORIZONTAL SCALE IN FEET (0 5 10 20)

CALCULATED ATW
CHECKED JCH

INTERSECTION DETAILS
ENON-XENIA ROAD & STINE ROAD

CLA-CR315-1.28

INTERSECTION DETAILS
ENON-XENIA ROAD & DAVIS AVENUE



NOTES:

1. ELEVATIONS ARE ON PAVEMENT UNLESS OTHERWISE NOTED
2. ELEVATIONS ALONG CURVES ARE SHOWN EVERY 10' UNLESS OTHERWISE NOTED.
3. M.E. = MATCH EXISTING

CURVE DATA FOR RADIUS RETURNS

CURVE NO.	RADIUS	INTERIOR ANGLE	LENGTH OF CURVE
1	38'	90°00'	59.69'
2	35'	90°00'	54.98'

ALL DISTANCES ARE MEASURED TO THE EDGE OF PAVEMENT.

HORIZONTAL SCALE IN FEET 0 5 10 20

CALCULATED ATW CHECKED JCH

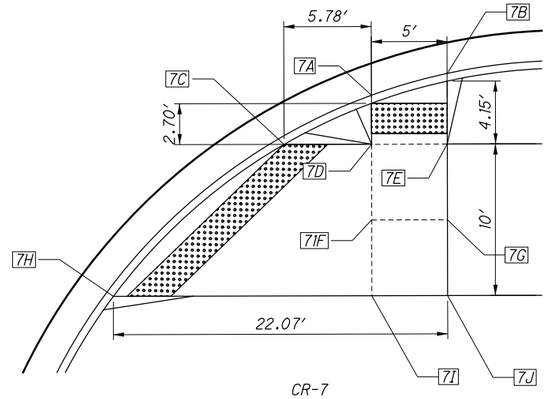
CLA-CR315-1.28

℄ ENON-XENIA RD. STA. 218+47.46 =
℄ REBERT PK. STA. 142+79.53

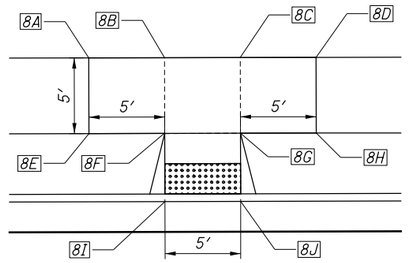
89°8'47"

℄ ENON-XENIA RD.

℄ REBERT PK.



CR-7



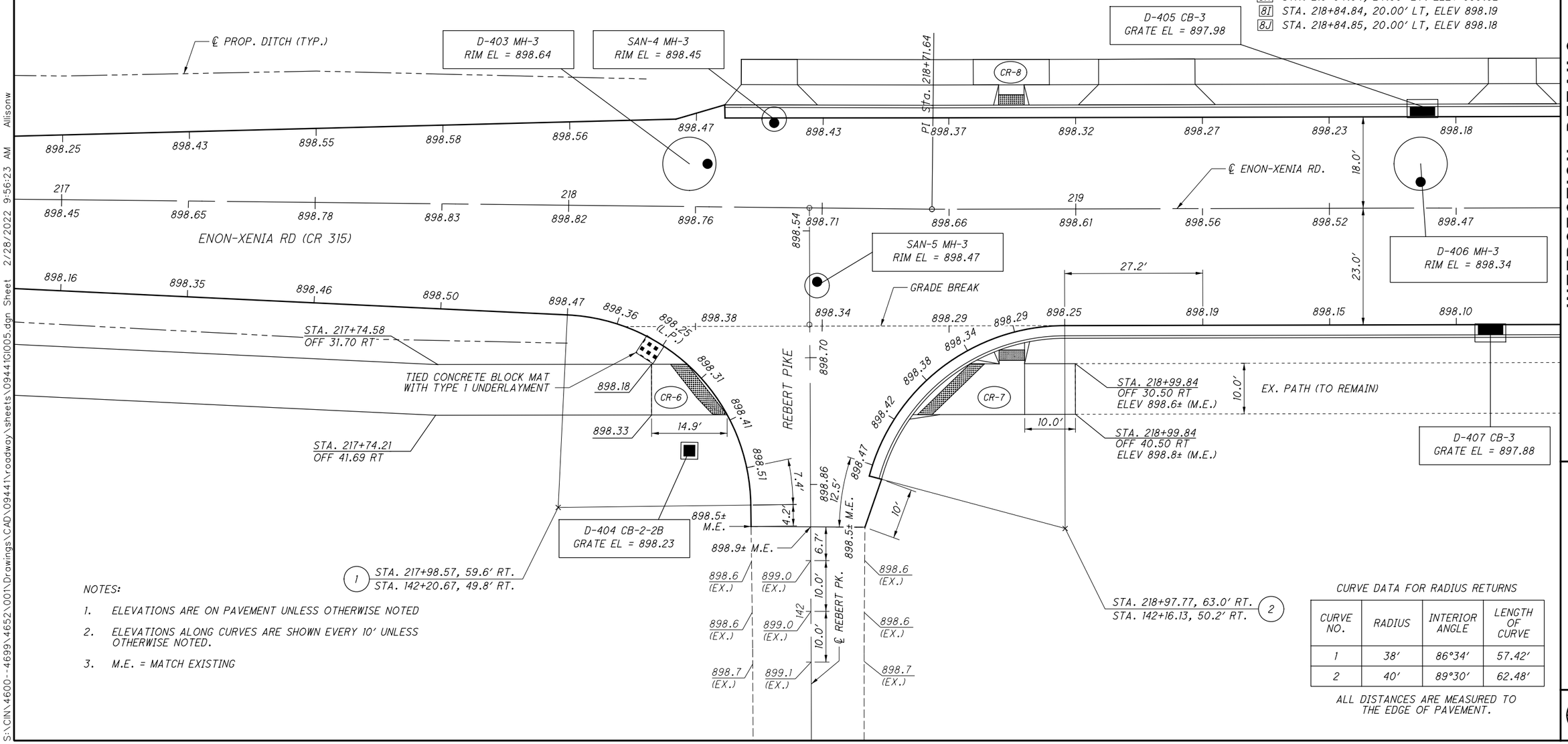
CR-8

CR-7 DATA

7A STA. 218+84.84, 27.27' RT, ELEV 898.11
7B STA. 218+89.84, 25.84' RT, ELEV 898.13
7C STA. 218+79.06, 30.50' RT, ELEV 898.19
7D STA. 218+84.84, 30.50' RT, ELEV 898.36
7E STA. 218+89.84, 30.50' RT, ELEV 898.44
7F STA. 218+84.84, 35.50' RT, ELEV 898.44
7G STA. 218+89.84, 35.50' RT, ELEV 898.52
7H STA. 218+68.31, 40.56' RT, ELEV 898.21
7I STA. 218+84.84, 40.50' RT, ELEV 898.52
7J STA. 218+89.84, 40.50' RT, ELEV 898.60

CR-8 DATA

8A STA. 218+79.84, 29.50' LT, ELEV 898.68
8B STA. 218+84.84, 29.50' LT, ELEV 898.57
8C STA. 218+84.85, 29.50' LT, ELEV 898.56
8D STA. 218+94.84, 29.50' LT, ELEV 898.69
8E STA. 218+79.84, 24.50' LT, ELEV 898.60
8F STA. 218+84.84, 24.50' LT, ELEV 898.49
8G STA. 218+84.85, 24.50' LT, ELEV 898.48
8H STA. 218+94.84, 24.50' LT. ELEV 898.62
8I STA. 218+84.84, 20.00' LT, ELEV 898.19
8J STA. 218+84.85, 20.00' LT, ELEV 898.18



NOTES:

1. ELEVATIONS ARE ON PAVEMENT UNLESS OTHERWISE NOTED
2. ELEVATIONS ALONG CURVES ARE SHOWN EVERY 10' UNLESS OTHERWISE NOTED.
3. M.E. = MATCH EXISTING

CURVE DATA FOR RADIUS RETURNS

CURVE NO.	RADIUS	INTERIOR ANGLE	LENGTH OF CURVE
1	38'	86°34'	57.42'
2	40'	89°30'	62.48'

ALL DISTANCES ARE MEASURED TO THE EDGE OF PAVEMENT.

N

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED CJR
CHECKED JCH

INTERSECTION DETAILS
ENON-XENIA ROAD & REBERT PIKE

CLA-CR315-1.28

80
138

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NOTES:

1. ELEVATIONS ARE ON PAVEMENT UNLESS OTHERWISE NOTED
2. ELEVATIONS ALONG CURVES ARE SHOWN EVERY 10' UNLESS OTHERWISE NOTED.
3. M.E. = MATCH EXISTING

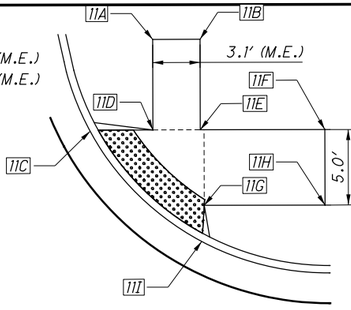
CURVE DATA FOR RADIUS RETURNS

CURVE NO.	RADIUS	INTERIOR ANGLE	LENGTH OF CURVE
1	20'	90°10'	31.31'
2	20'	89°50'	31.42'
3	35'	89°51'	55.03'
4	35'	90°09'	54.92'

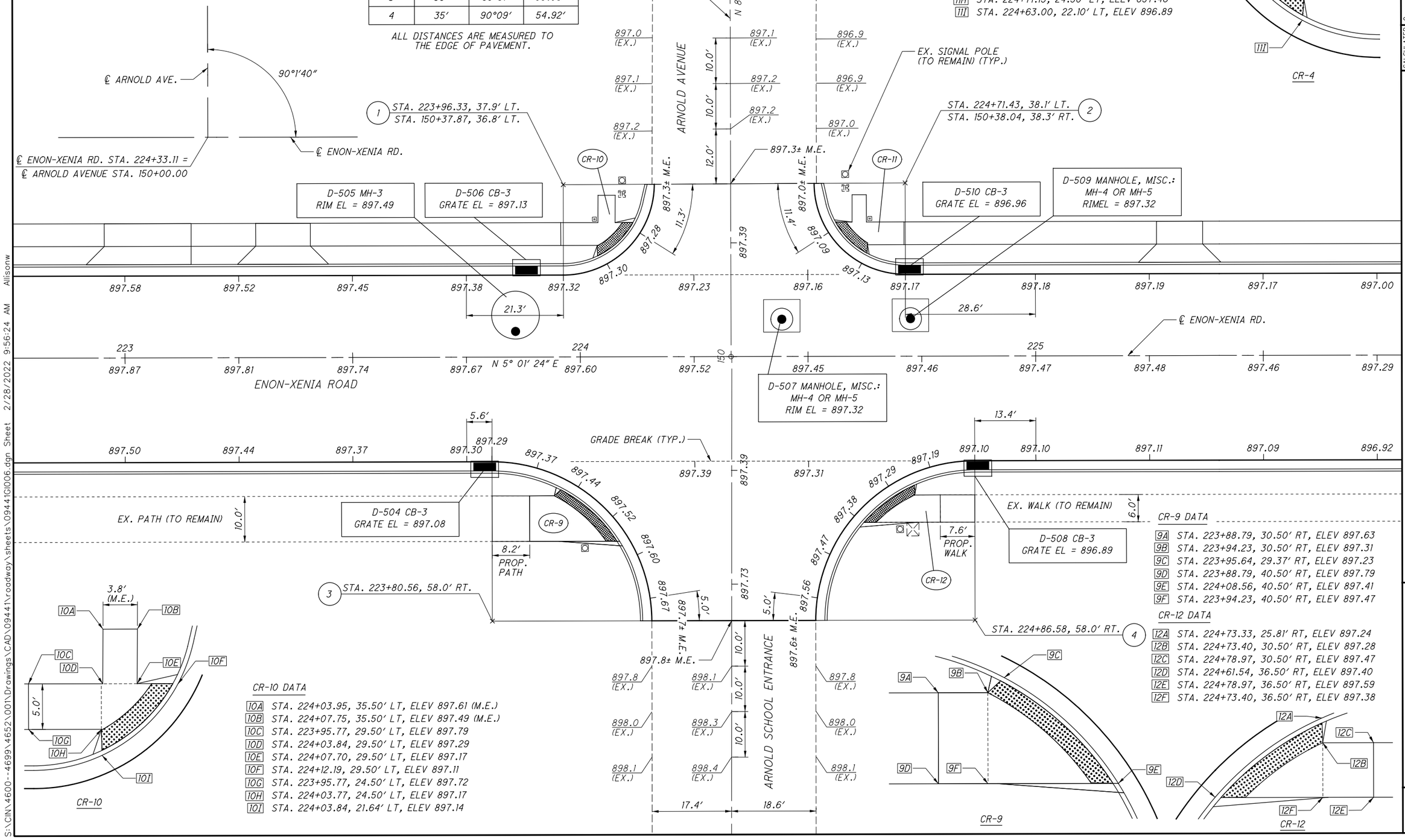
ALL DISTANCES ARE MEASURED TO THE EDGE OF PAVEMENT.

CR-11 DATA

- 11A STA. 224+59.76, 35.50' LT, ELEV 897.38 (M.E.)
- 11B STA. 224+62.90, 35.50' LT, ELEV 897.47 (M.E.)
- 11C STA. 224+55.57, 29.50' LT, ELEV 896.90
- 11D STA. 224+59.76, 29.50' LT, ELEV 896.97
- 11E STA. 224+62.90, 29.50' LT, ELEV 897.01
- 11F STA. 224+71.15, 29.50' LT, ELEV 897.54
- 11G STA. 224+63.15, 24.50' LT, ELEV 896.93
- 11H STA. 224+71.15, 24.50' LT, ELEV 897.46
- 11I STA. 224+63.00, 22.10' LT, ELEV 896.89



CR-4



CR-10

CR-10 DATA

- 10A STA. 224+03.95, 35.50' LT, ELEV 897.61 (M.E.)
- 10B STA. 224+07.75, 35.50' LT, ELEV 897.49 (M.E.)
- 10C STA. 223+95.77, 29.50' LT, ELEV 897.79
- 10D STA. 224+03.84, 29.50' LT, ELEV 897.29
- 10E STA. 224+07.70, 29.50' LT, ELEV 897.17
- 10F STA. 224+12.19, 29.50' LT, ELEV 897.11
- 10G STA. 223+95.77, 24.50' LT, ELEV 897.72
- 10H STA. 224+03.77, 24.50' LT, ELEV 897.17
- 10I STA. 224+03.84, 21.64' LT, ELEV 897.14

CR-9

CR-9 DATA

- 9A STA. 223+88.79, 30.50' RT, ELEV 897.63
- 9B STA. 223+94.23, 30.50' RT, ELEV 897.31
- 9C STA. 223+95.64, 29.37' RT, ELEV 897.23
- 9D STA. 223+88.79, 40.50' RT, ELEV 897.79
- 9E STA. 224+08.56, 40.50' RT, ELEV 897.41
- 9F STA. 223+94.23, 40.50' RT, ELEV 897.47

CR-12

CR-12 DATA

- 12A STA. 224+73.33, 25.81' RT, ELEV 897.24
- 12B STA. 224+73.40, 30.50' RT, ELEV 897.28
- 12C STA. 224+78.97, 30.50' RT, ELEV 897.47
- 12D STA. 224+61.54, 36.50' RT, ELEV 897.40
- 12E STA. 224+78.97, 36.50' RT, ELEV 897.59
- 12F STA. 224+73.40, 36.50' RT, ELEV 897.38

N

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED CJR
CHECKED JCH

INTERSECTION DETAILS
ENON-XENIA ROAD & ARNOLD AVENUE

CLA-CR315-1.28

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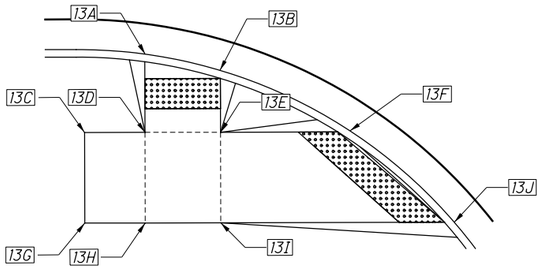
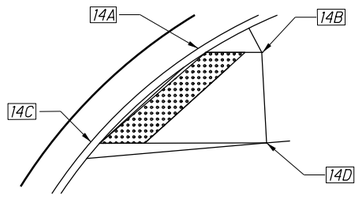
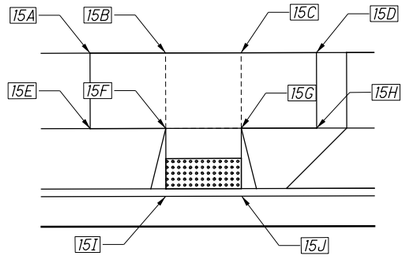






CR-13 DATA

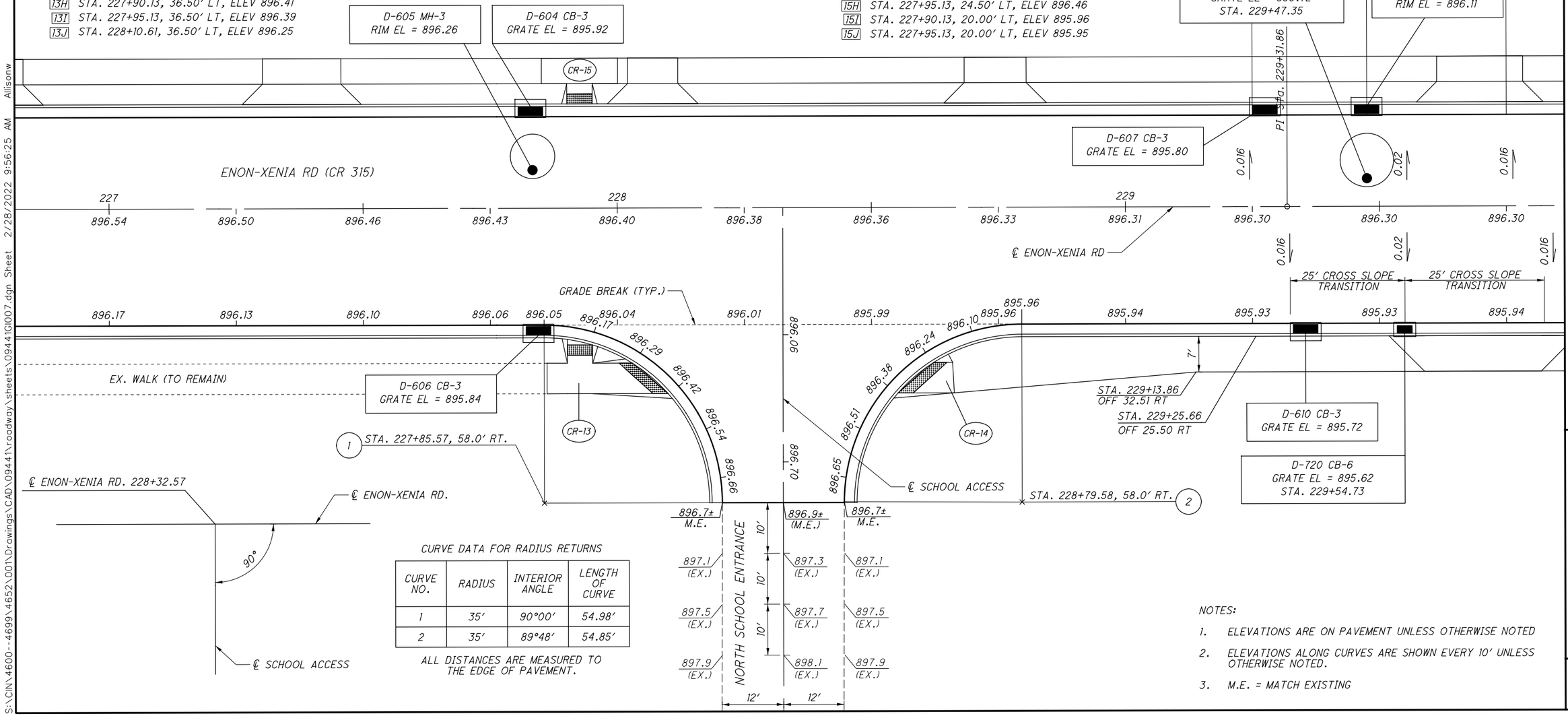
- 13A STA. 227+90.13, 25.32′ RT, ELEV 895.94
- 13B STA. 227+95.13, 26.41′ RT, ELEV 896.00
- 13C STA. 227+86.13, 30.50′ RT, ELEV 896.47
- 13D STA. 227+90.13, 30.50′ RT, ELEV 896.32
- 13E STA. 227+95.13, 30.50′ RT, ELEV 896.30
- 13F STA. 228+02.90, 30.50′ RT, ELEV 896.15
- 13G STA. 227+86.13, 36.50′ RT. ELEV 896.55
- 13H STA. 227+90.13, 36.50′ LT, ELEV 896.41
- 13I STA. 227+95.13, 36.50′ LT, ELEV 896.39
- 13J STA. 228+10.61, 36.50′ LT, ELEV 896.25

CR-14 DATA

- 14A STA. 228+62.25, 30.50′ RT, ELEV 896.11
- 14B STA. 228+66.01, 30.50′ RT, ELEV 896.40
- 14C STA. 228+54.54, 36.50′ RT, ELEV 896.21
- 14D STA. 228+66.26, 36.50′ RT, ELEV 896.47

CR-15 DATA

- 15A STA. 227+85.13, 29.50′ LT, ELEV 896.56
- 15B STA. 227+90.13, 29.50′ LT, ELEV 896.33
- 15C STA. 227+95.13, 29.50′ LT, ELEV 896.32
- 15D STA. 228+00.13, 29.50′ LT, ELEV 896.53
- 15E STA. 227+85.13, 24.50′ LT, ELEV 896.48
- 15F STA. 227+90.13, 24.50′ LT, ELEV 896.26
- 15G STA. 227+95.13, 24.50′ LT, ELEV 896.25
- 15H STA. 227+95.13, 24.50′ LT, ELEV 896.46
- 15I STA. 227+90.13, 20.00′ LT, ELEV 895.96
- 15J STA. 227+95.13, 20.00′ LT, ELEV 895.95



CURVE DATA FOR RADIUS RETURNS

CURVE NO.	RADIUS	INTERIOR ANGLE	LENGTH OF CURVE
1	35′	90°00′	54.98′
2	35′	89°48′	54.85′

ALL DISTANCES ARE MEASURED TO THE EDGE OF PAVEMENT.

NOTES:

1. ELEVATIONS ARE ON PAVEMENT UNLESS OTHERWISE NOTED
2. ELEVATIONS ALONG CURVES ARE SHOWN EVERY 10′ UNLESS OTHERWISE NOTED.
3. M.E. = MATCH EXISTING

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED CJR
CHECKED JCH

INTERSECTION DETAILS
ENON-XENIA ROAD & STUDENT ENTRANCE

CLA-CR315-1.28

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138

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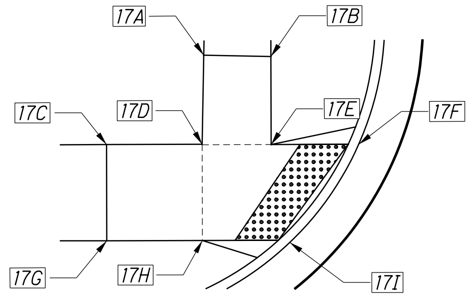
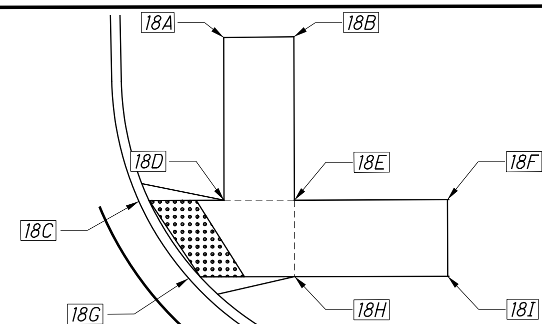
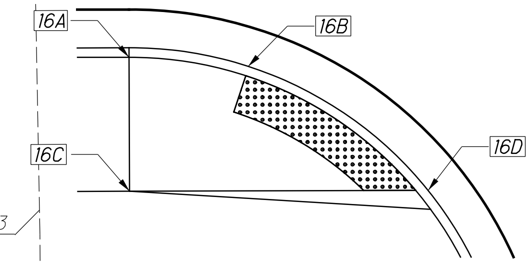
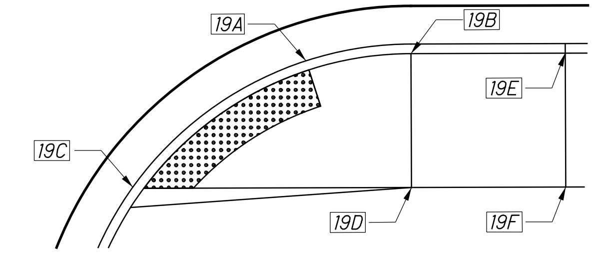








CR-17 DATA

17A	STA. 232+06.49, 34.19' LT, ELEV 896.58
17B	STA. 232+10.01, 34.11' LT, ELEV 896.56
17C	STA. 232+01.39, 29.53' LT, ELEV 896.55
17D	STA. 232+06.39, 29.53' LT, ELEV 896.27
17E	STA. 232+10.00, 29.50' LT, ELEV 896.22
17F	STA. 232+15.04, 29.50' LT, ELEV 896.15
17G	STA. 232+01.39, 24.50' LT, ELEV 896.47
17H	STA. 232+06.39, 24.50' LT, ELEV 896.19
17I	STA. 232+11.55, 24.50' LT, ELEV 896.12

CR-18 DATA

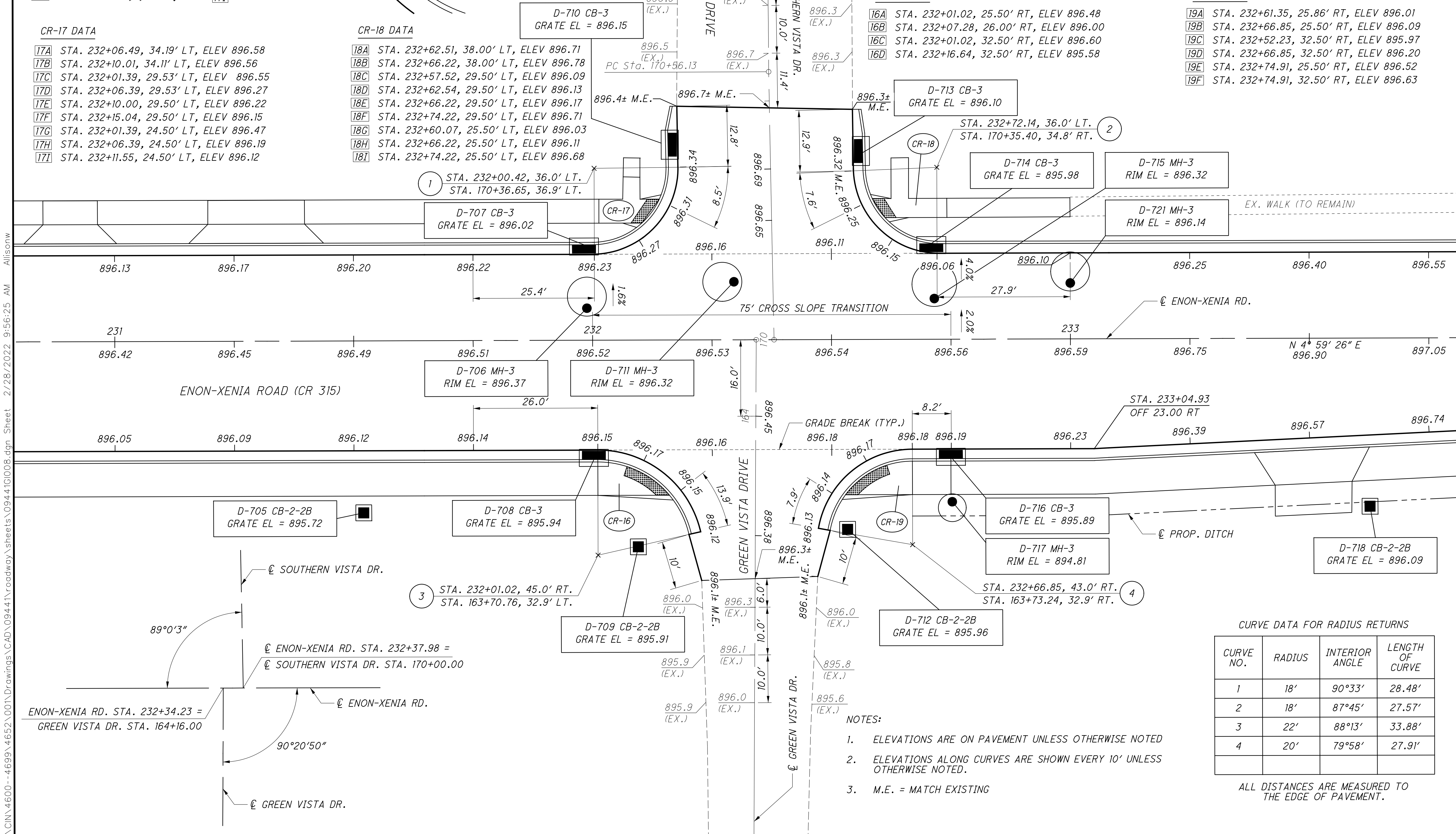
18A	STA. 232+62.51, 38.00' LT, ELEV 896.71
18B	STA. 232+66.22, 38.00' LT, ELEV 896.78
18C	STA. 232+57.52, 29.50' LT, ELEV 896.09
18D	STA. 232+62.54, 29.50' LT, ELEV 896.13
18E	STA. 232+66.22, 29.50' LT, ELEV 896.17
18F	STA. 232+74.22, 29.50' LT, ELEV 896.71
18G	STA. 232+60.07, 25.50' LT, ELEV 896.03
18H	STA. 232+66.22, 25.50' LT, ELEV 896.11
18I	STA. 232+74.22, 25.50' LT, ELEV 896.68

CR-16 DATA

16A	STA. 232+01.02, 25.50' RT, ELEV 896.48
16B	STA. 232+07.28, 26.00' RT, ELEV 896.00
16C	STA. 232+01.02, 32.50' RT, ELEV 896.60
16D	STA. 232+16.64, 32.50' RT, ELEV 895.58

CR-19 DATA

19A	STA. 232+61.35, 25.86' RT, ELEV 896.01
19B	STA. 232+66.85, 25.50' RT, ELEV 896.09
19C	STA. 232+52.23, 32.50' RT, ELEV 895.97
19D	STA. 232+66.85, 32.50' RT, ELEV 896.20
19E	STA. 232+74.91, 25.50' RT, ELEV 896.52
19F	STA. 232+74.91, 32.50' RT, ELEV 896.63



NOTES:

1. ELEVATIONS ARE ON PAVEMENT UNLESS OTHERWISE NOTED
2. ELEVATIONS ALONG CURVES ARE SHOWN EVERY 10' UNLESS OTHERWISE NOTED.
3. M.E. = MATCH EXISTING

CURVE DATA FOR RADIUS RETURNS

CURVE NO.	RADIUS	INTERIOR ANGLE	LENGTH OF CURVE
1	18'	90°33'	28.48'
2	18'	87°45'	27.57'
3	22'	88°13'	33.88'
4	20'	79°58'	27.91'

ALL DISTANCES ARE MEASURED TO THE EDGE OF PAVEMENT.

HORIZONTAL SCALE IN FEET 0 5 10 20

CALCULATED CJR CHECKED JCH

INTERSECTION DETAILS ENON-XENIA ROAD & GREEN VISTA DRIVE

CLA-CR315-1.28

RESIDENTIAL DRIVES

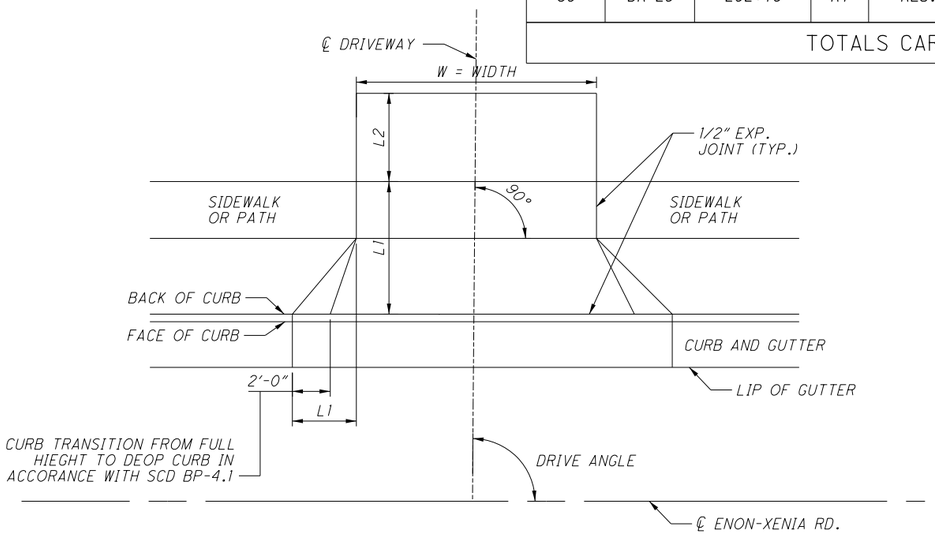
ASPHALT DRIVE BUILD-UP
ITEM 441- 2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG64-22
ITEM 304 - 6" AGGREGATE BASE

CONCRETE DRIVE BUILD-UP
ITEM 452 - 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP

COMMERCIAL DRIVES

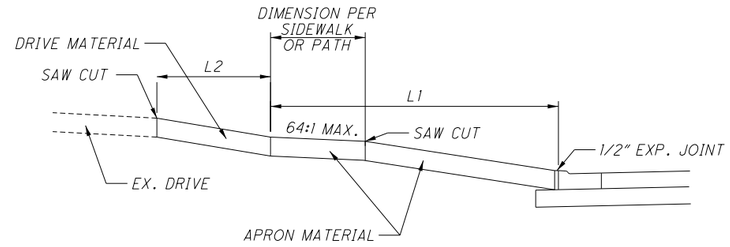
ASPHALT DRIVE BUILD-UP
ITEM 441 -1-¼" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) PG64-22
ITEM 441 -1-¾" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)
ITEM 407 - NON-TRACKING TACK COAT (0.06 GAL/SY)
ITEM 301 - 5" ASPHALT CONCRETE BASE, PG64-22
ITEM 304 - 8" AGGREGATE BASE

SHEET NO.	REFERENCE NO.	STATION	SIDE	DRIVE TYPE	APRON MATERIAL	DRIVE MATERIAL	DRIVE ANGLE	APRON LENGTH "L1"	DRIVEWAY LENGTH "L2"	WIDTH "W"	202 PAVEMENT REMOVED	204 SUBGRADE COMPACTION	301 ASPHALT CONRETE BASE, PG64-22	304 AGGREGATE BASE	407 NON-TRACKING TACK COAT	441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	441 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)	452 6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P
							DD-MM-SS	FT	FT	FT	SY	SY	CY	CY	GAL	CY	CY	SY
36	DR-1	208+13	RT	COMM.	ASPH.	ASPH.	90° 02' 47"	21.00	3.49	28.0	82.43	90.34	12.55	20.07	10.84	3.14	4.39	
37	DR-2	211+47	RT	COMM.	ASPH.	ASPH.	89° 47' 20"	21	6.14	13.29	48.18	52.29	7.26	11.62	6.27	1.82	2.54	
37	DR-3	212+28	RT	RES.	ASPH.	CONC.	89° 49' 19"	21	2.69	15.88	50.39	54.48		8.28		2.76		4.81
38	DR-4	218+40	LT	RES.	CONC.		90° 45' 48"	9.07	0	11.04	21.20	12.67						12.67
38	DR-5	219+14	LT	RES.	CONC.		90° 00' 00"	9.00	0	19.02	22.49	20.80						20.80
38	DR-6	219+86	LT	RES.	CONC.		90° 00' 00"	9.08	0	9.45	10.67	11.23						11.23
39	DR-7	220+53	LT	RES.	CONC.		90° 00' 00"	9.09	0	15	17.41	16.70						16.70
39	DR-8	221+24	LT	RES.	CONC.		90° 00' 00"	9.00	0	9.07	11.15	10.84						10.84
39	DR-9	222+41	LT	RES.	CONC.		90° 00' 00"	9.00	0	10.39	10.48	12.17						12.17
39	DR-10	223+05	LT	RES.	CONC.		90° 00' 00"	9.00	0	19.08	19.94	19.97						19.97
39	DR-11	223+35	LT	RES.	CONC.		90° 00' 00"	9.12	0	12.00	26.31	13.78						13.78
40	DR-12	225+32	LT	RES.	CONC.		90° 00' 00"	9.00	0	10.12	12.21	11.90						11.90
40	DR-13	226+05	LT	RES.	CONC.		90° 00' 00"	9.00	0	17.34	19.10	19.12						19.12
40	DR-14	226+73	LT	RES.	CONC.		90° 00' 00"	9.00	0	21.15	11.51	22.92						22.92
40	DR-15	227+38	LT	RES.	CONC.		90° 00' 00"	9.00	0	15.47	17.29	17.24						17.24
40	DR-16	228+07	LT	RES.	CONC.		90° 00' 00"	9.00	0	9.82	11.86	11.65						11.65
40	DR-17	228+74	LT	RES.	CONC.		90° 00' 00"	9.00	0	12.26	14.19	13.98						13.98
41	DR-18	229+70	LT	RES.	CONC.		90° 00' 00"	9.00	0	16.92	16.97	18.70						18.70
41	DR-19	230+91	LT	RES.	CONC.		90° 00' 00"	8.83	0	11.40	15.48	13.18						13.18
41	DR-20	231+30	LT	RES.	CONC.		90° 00' 00"	9.05	0	20.22	23.01	22.00						22.00
41	DR-21	233+49	RT	RES.	CONC.	CONC.	87° 22' 58"	7.00	6.50	15.7	47.15	27.24						27.24
41	DR-22	233+99	RT	RES.	CONC.	CONC.	88° 03' 43"	6.99	10.07	16.18	47.16	33.17						33.17
42	DR-23	234+61	LT	RES.	CONC.		90° 00' 00"	5.57	0	20.76	17.43	16.34						16.34
42	DR-24	235+49	RT	RES.	CONC.	CONC.	90° 56' 46"	15.96	0.59	17.32	36.12	35.21						35.21
42	DR-25	235+55	LT	RES.	CONC.		90° 00' 00"	7.02	0	14.72	21.81	16.94						16.94
41	DR-26	229+67	RT	RES.	CONC.	CONC.	90° 00' 00"	7.00		22.95	86.62	23.30						23.30
97	DR-27	131+33 (DAVIS AVE)	LT	RES.	CONC.		SEE SHEET 97 FOR DIMENSIONS				25.17	27.01						27.01
35	DR-28	202+78	RT	RES.	ASPH.		SEE SHEET 76 FOR DIMENSIONS				57.61	57.61		9.60		3.20		
TOTALS CARRIED TO GENERAL SUMMARY											801	703	20	50	17	11	7	453



L1 = CURB LAWN WIDTH. SEE TYPICAL SECTION
THE WIDTH OF THE HORIZONTAL FLARED EDGE IS EQUAL TO L1.
THE APRON FLARES VERTICALLY OVER 2' AT THE EOP.

DRIVE APRON DETAIL



DROP CURB DETAILS AT DRIVEWAYS

NOTES

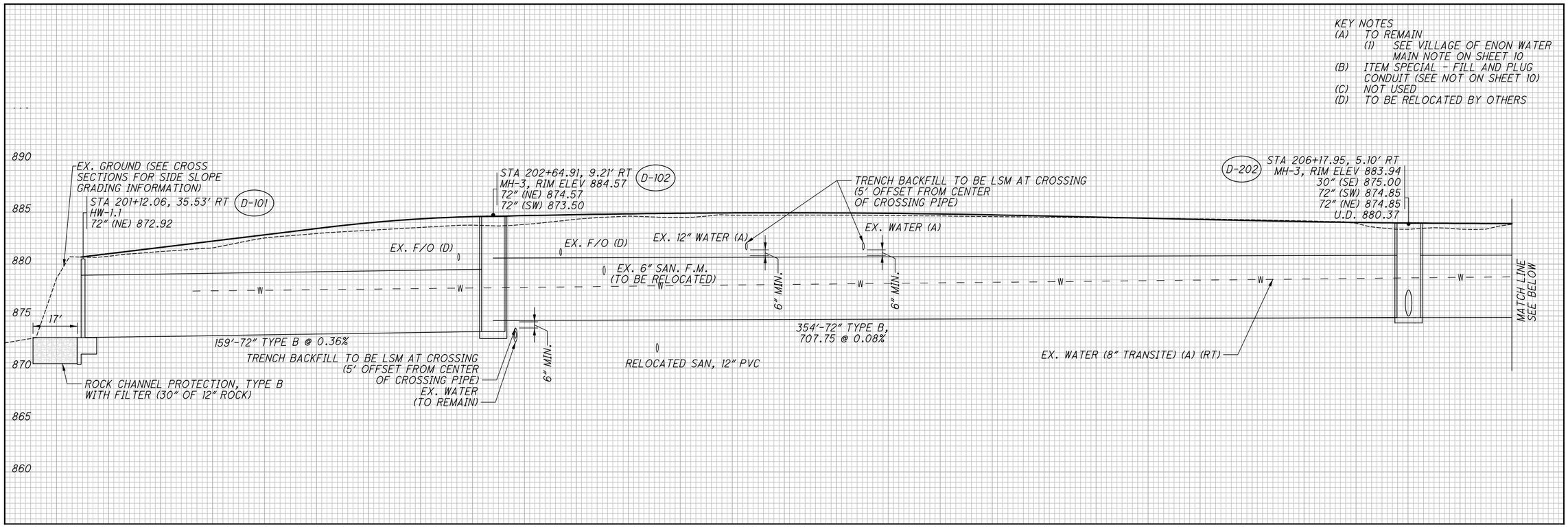
JOINTS: IMPRESSED JOINTS FOR PORTLAND CEMENT CONCRETE DRIVEWAYS SHALL BE ¼" MINIMUM WIDTH BY 3"± DEPTH.

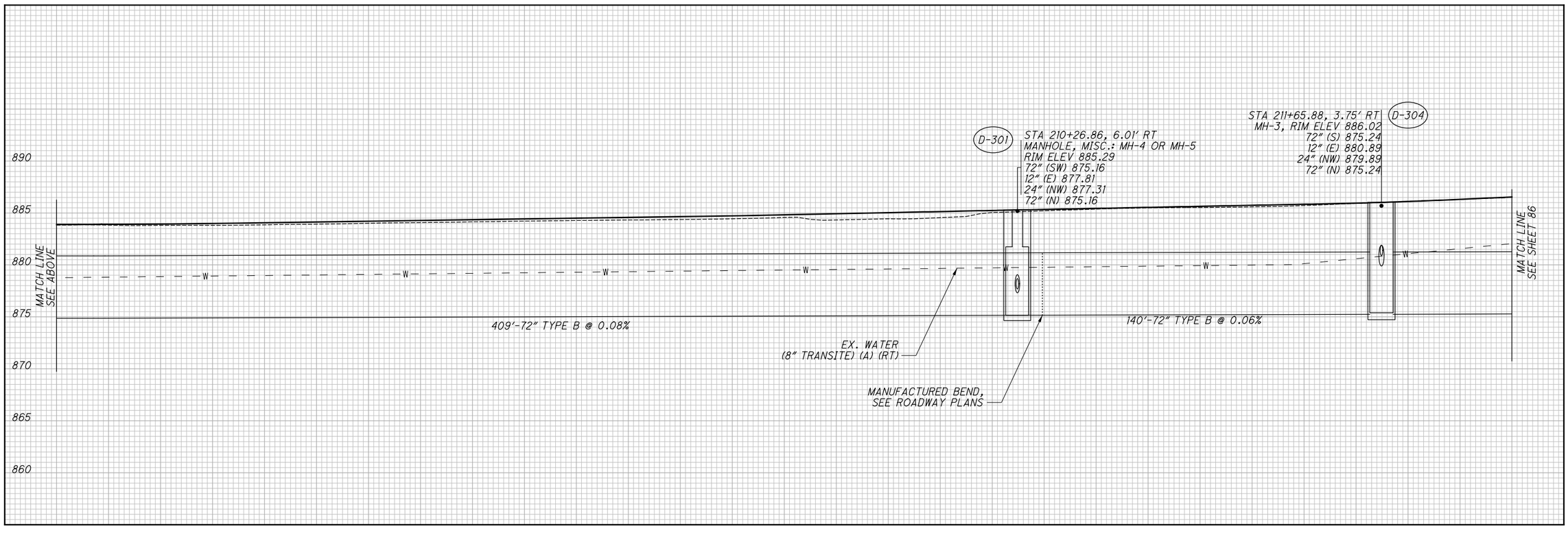
IMPRESSED JOINTS WITHOUT TIE BARS SHALL BE PLACED IN PORTLAND CEMENT CONCRETE DRIVEWAYS BEYOND THE FLARE APRON AT INTERVALS MATCHING EXISTING JOINT SPACING AND NOT TO EXCEED 10'.

CALCULATED ATW
CHECKED JCH

DRIVEWAY DETAILS

CLA-CR315-1.28





CALCULATED ZGR
CHECKED MDE

STORM SEWER PROFILES

CLA-CR315-1.28

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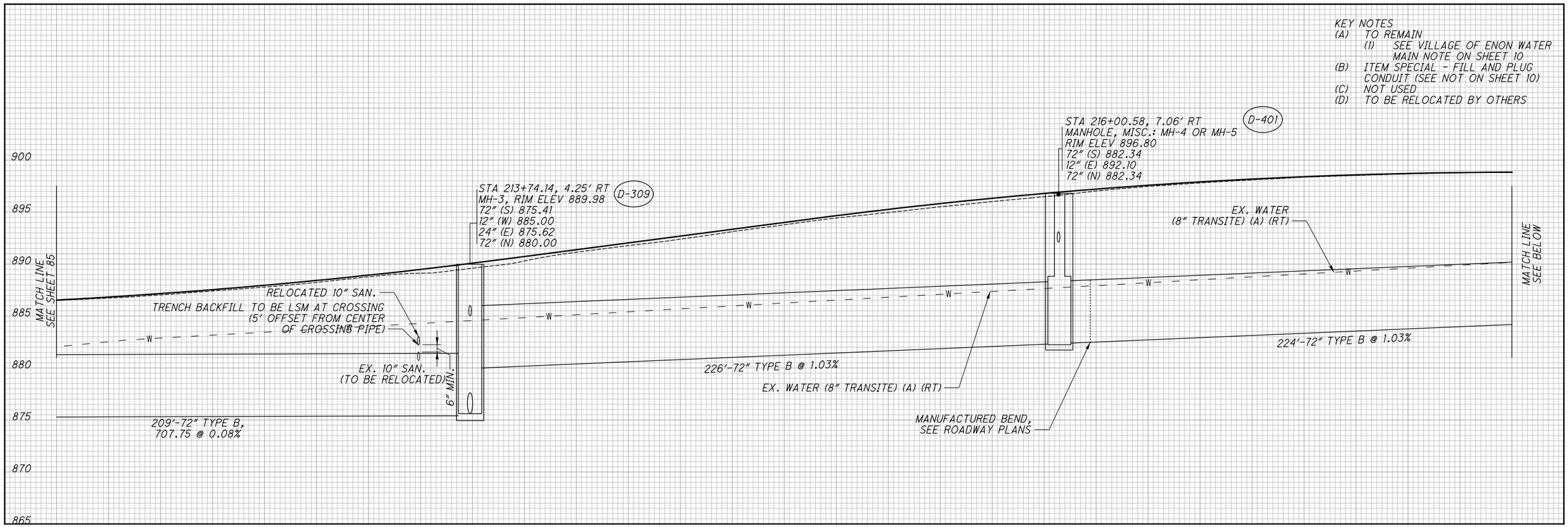
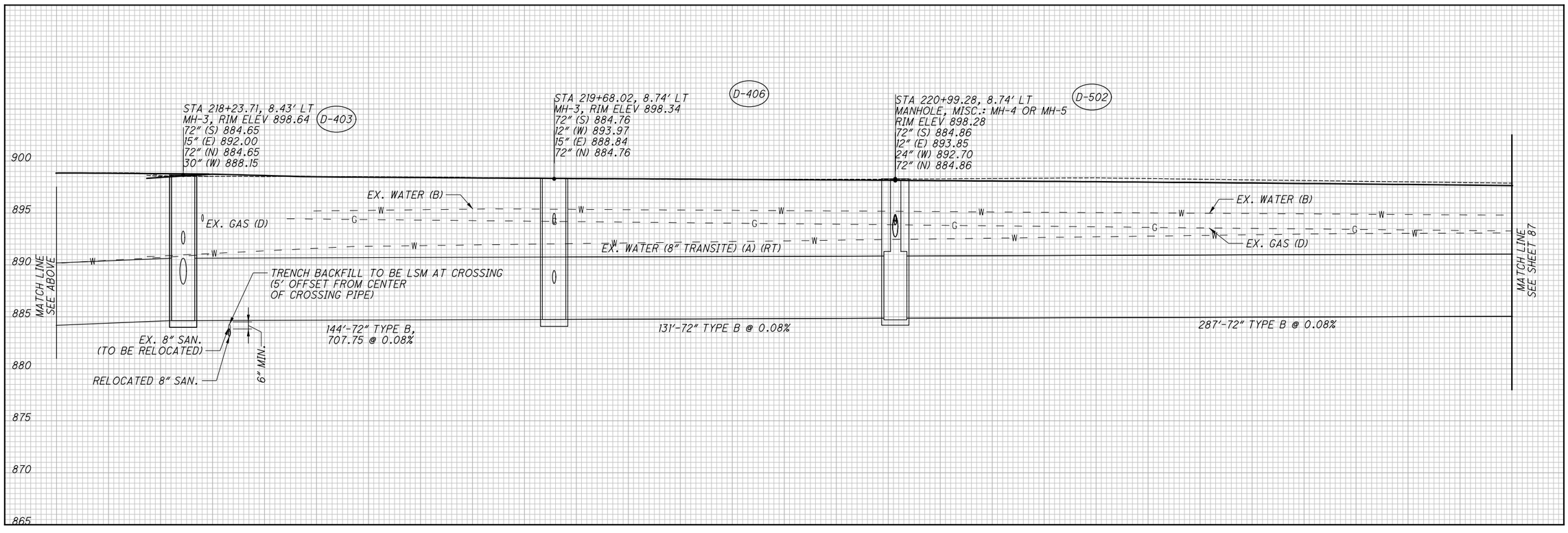
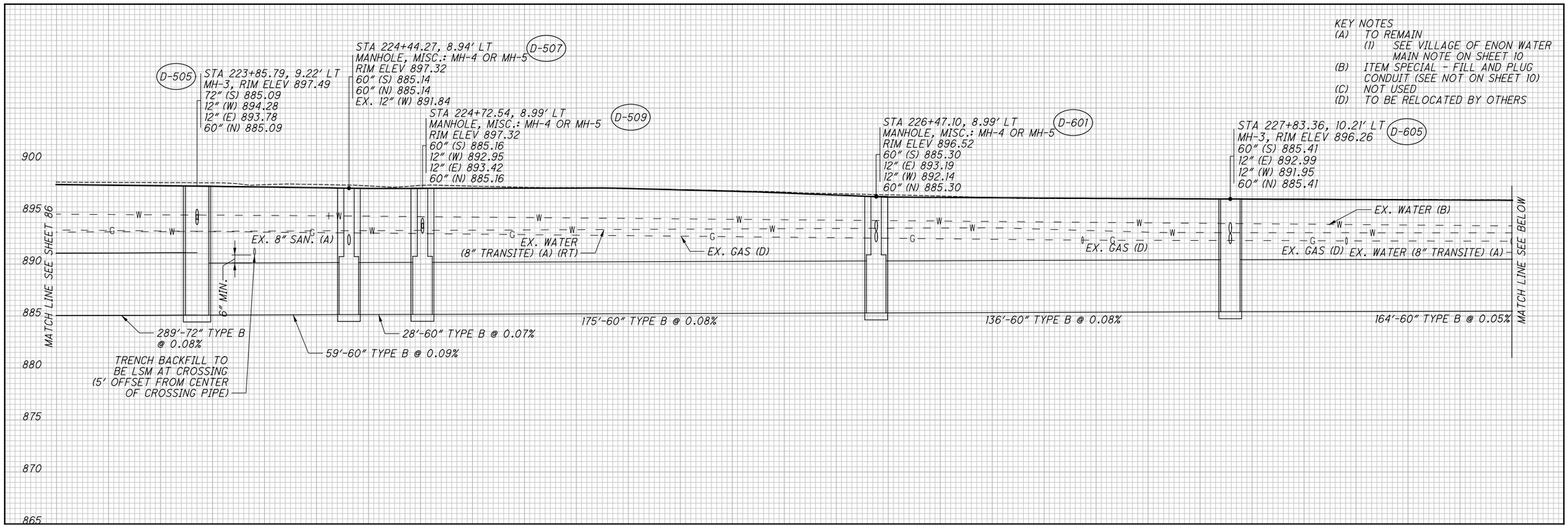




CALCULATED ZGR
CHECKED MDE

STORM SEWER PROFILES

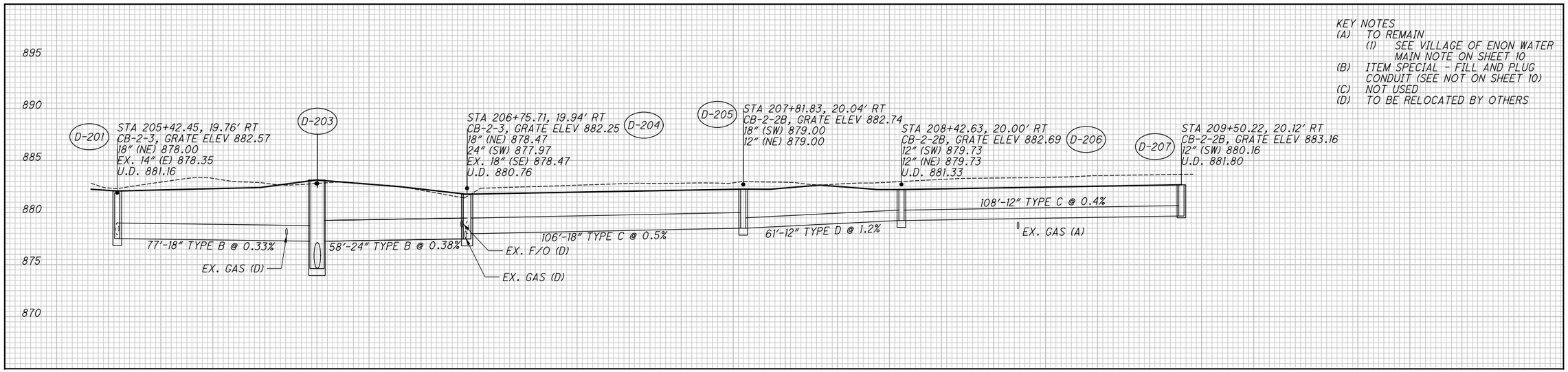
CLA-CR315-1.28

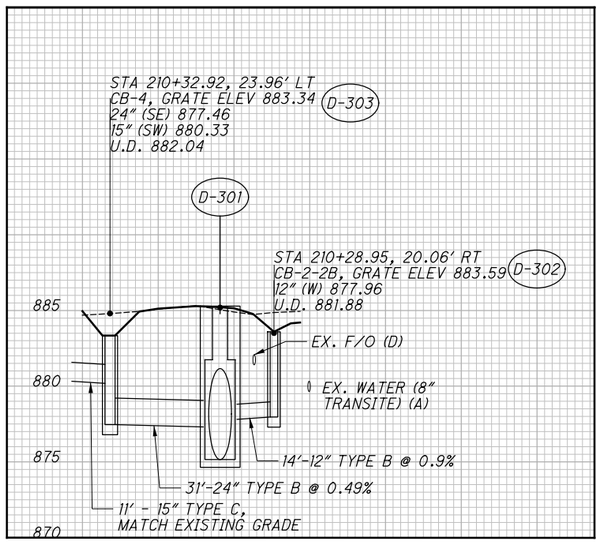


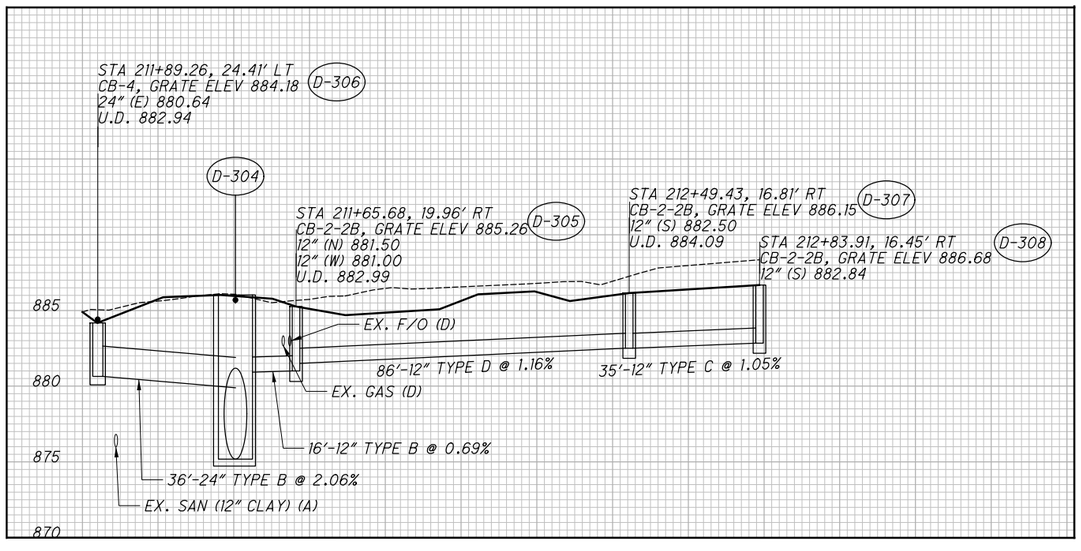
CALCULATED ZGR
CHECKED MDE

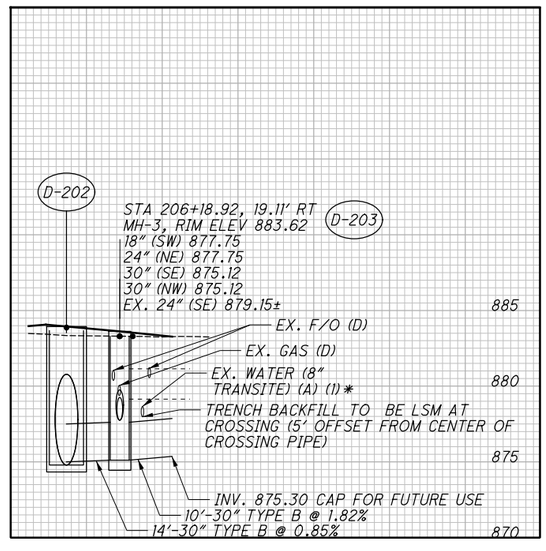
STORM SEWER PROFILES

CLA-CR315-1.28







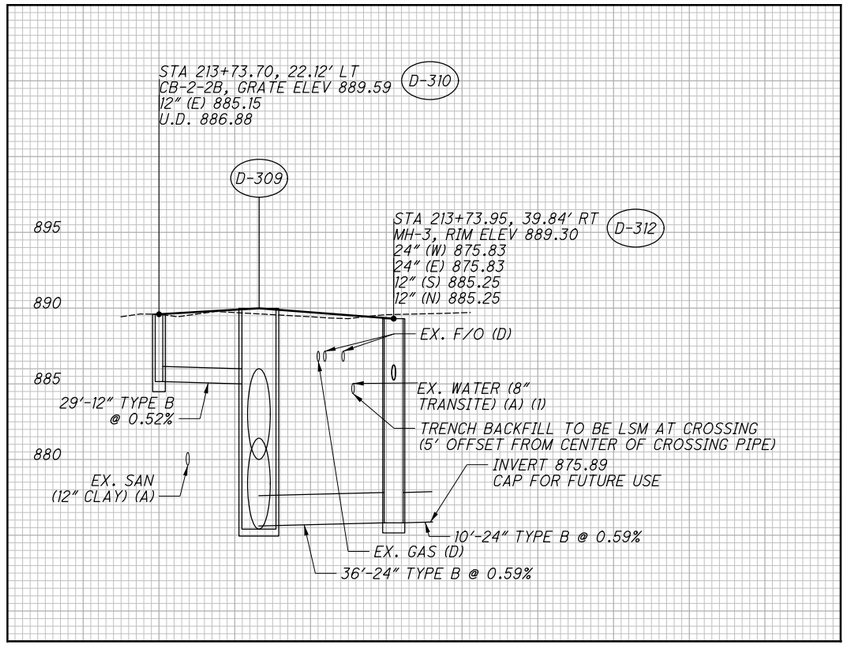


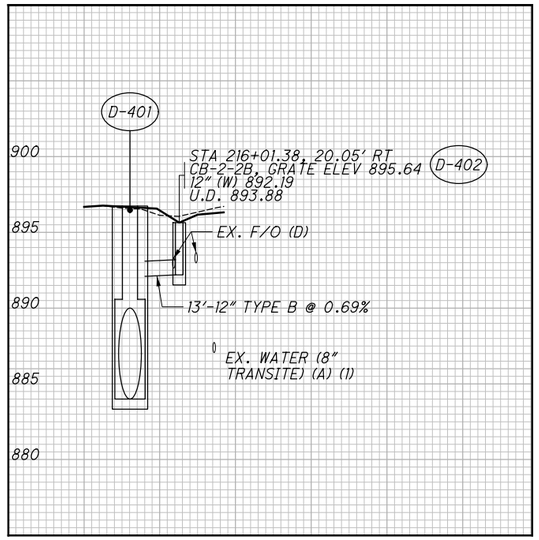
* CONTRACTOR TO VERFY DEPTH OF TRANSITE WM PRIOR TO PERFORMING WORK. SEE WATER WORK PLANS FOR RELOCATION CONTINGENCY QUANTITIES.

CALCULATED ZGR
CHECKED MDE

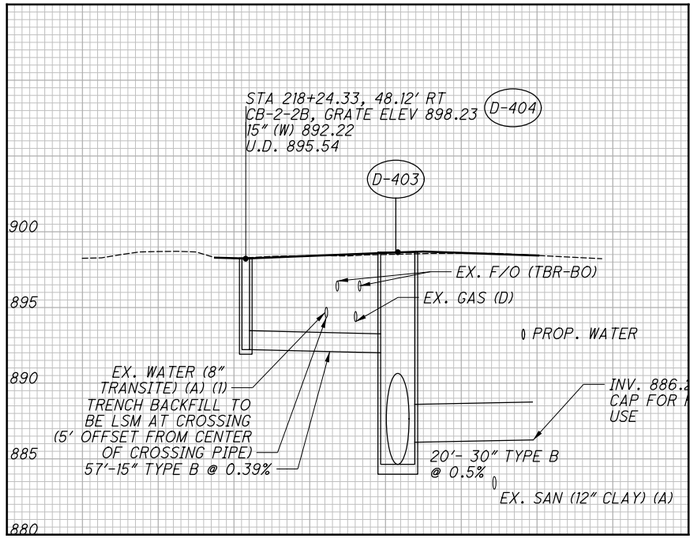
STORM SEWER PROFILES

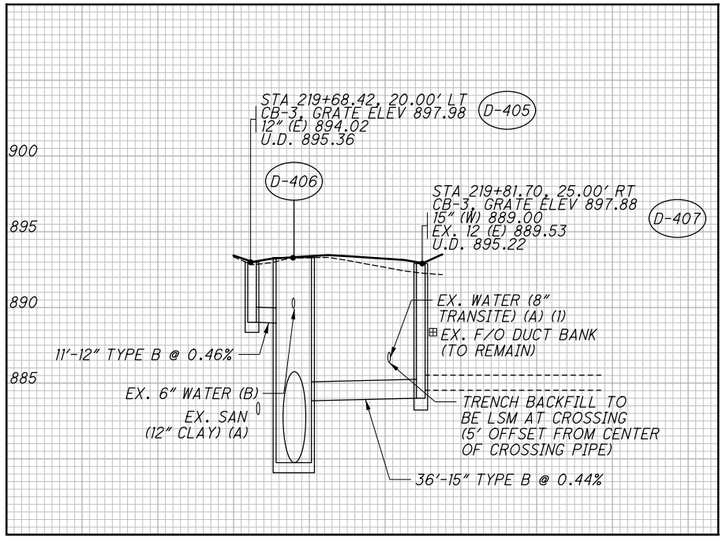
CLA-CR315-1.28

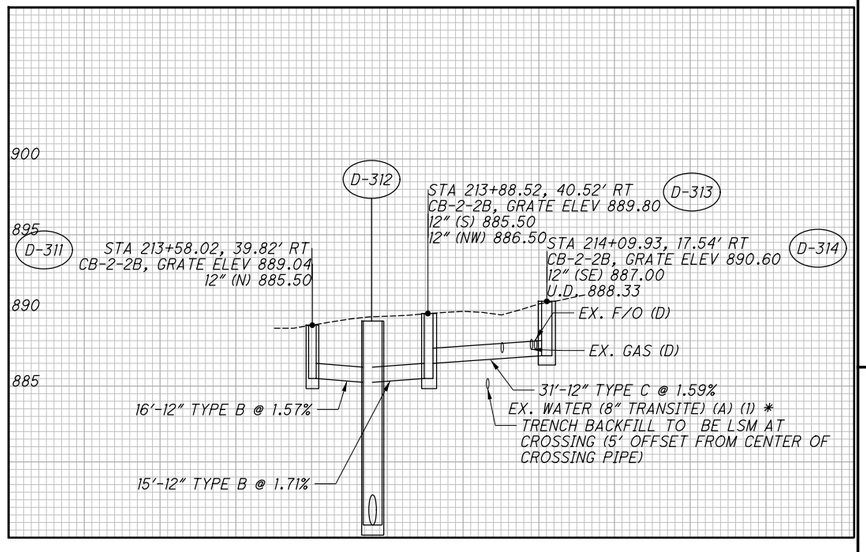




KEY NOTES
(A) TO REMAIN
(1) SEE VILLAGE OF ENON WATER MAIN NOTE ON SHEET 10
(B) ITEM SPECIAL - FILL AND PLUG CONDUIT (SEE NOT ON SHEET 10)
(C) NOT USED
(D) TO BE RELOCATED BY OTHERS







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STORM SEWER PROFILES

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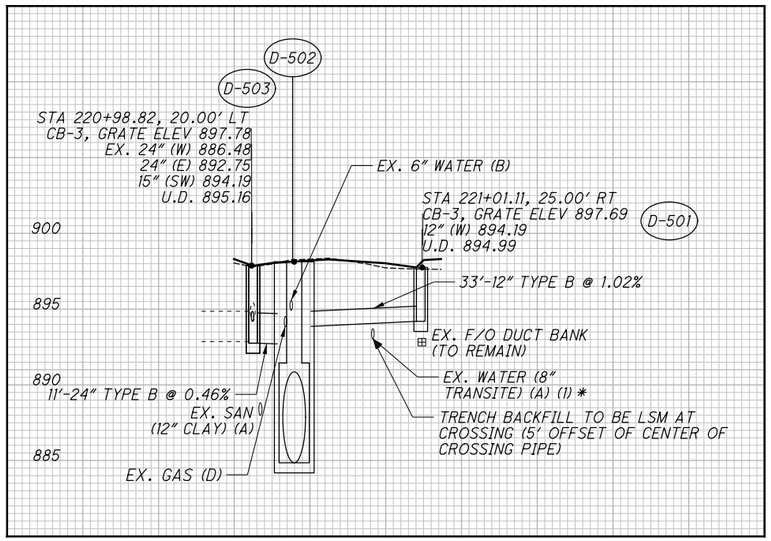

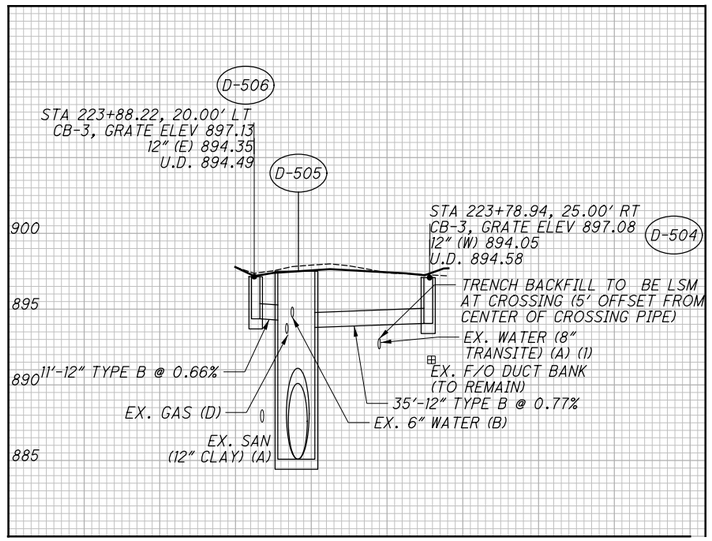

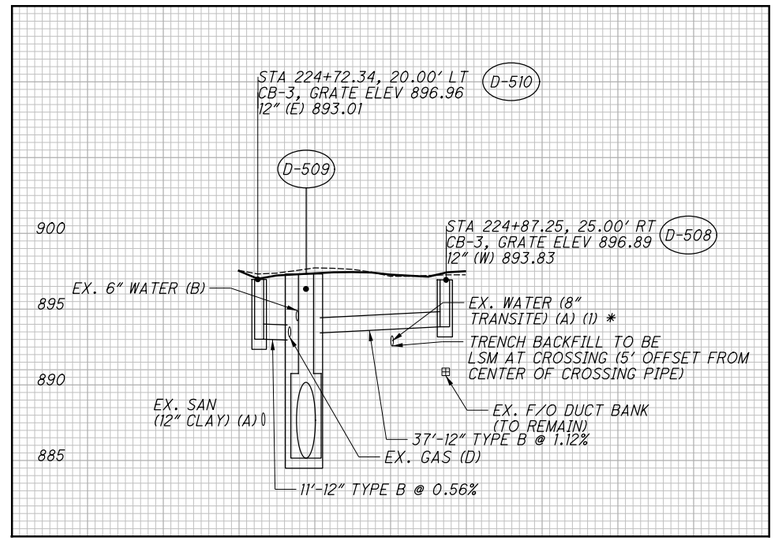

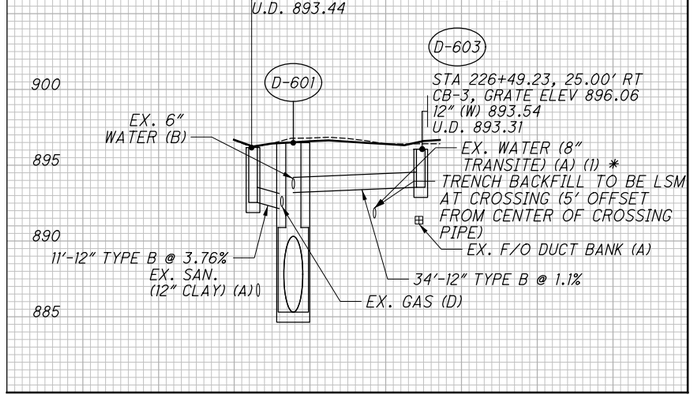

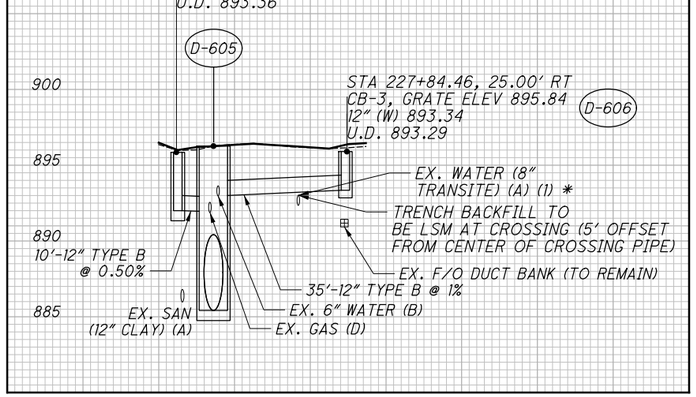

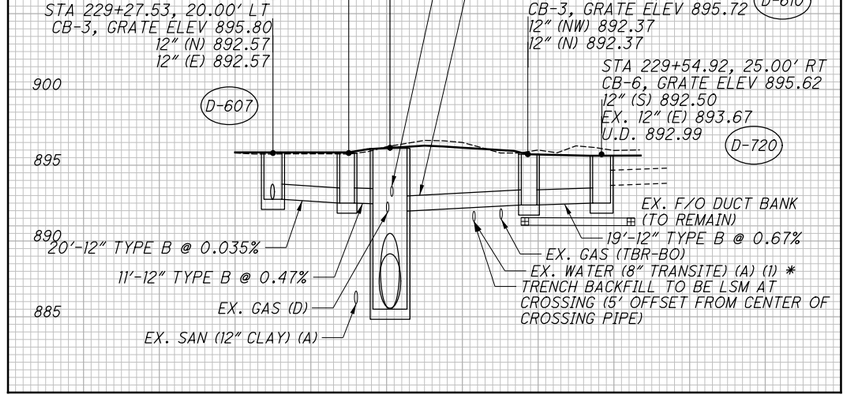

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STORM SEWER PROFILES

CLA-CR315-1.28

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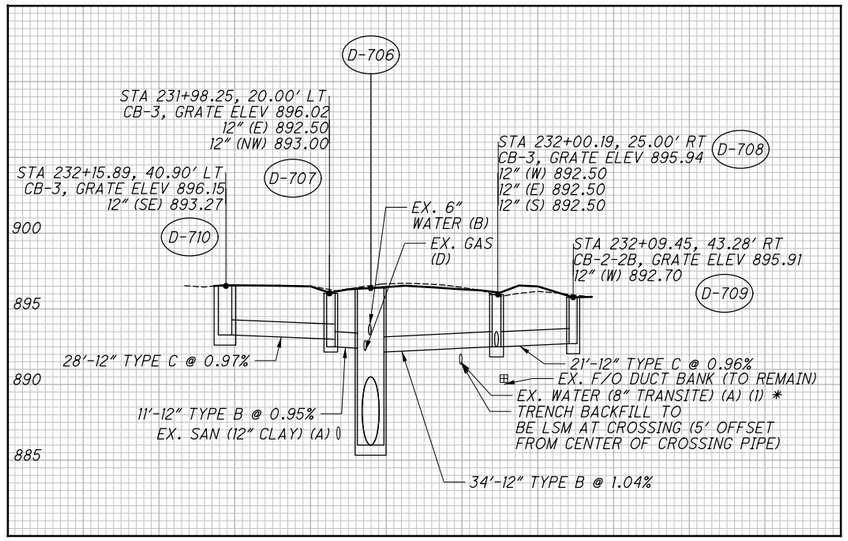

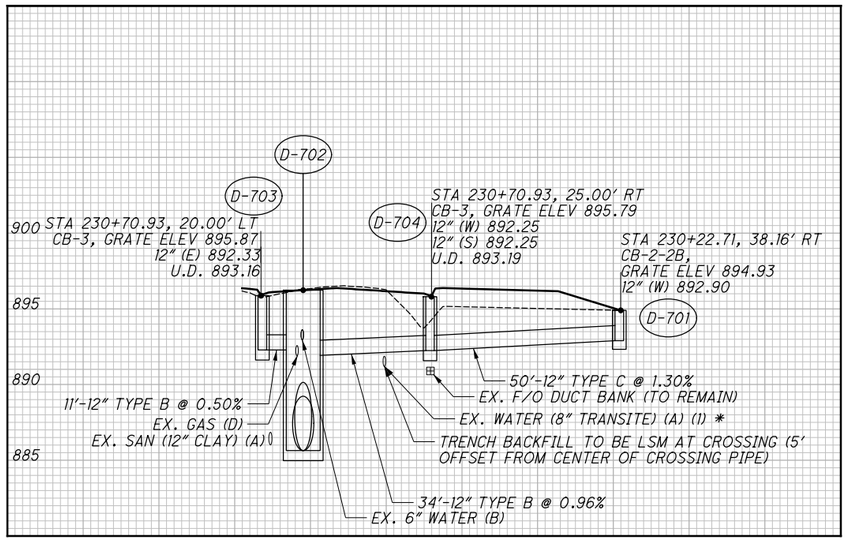

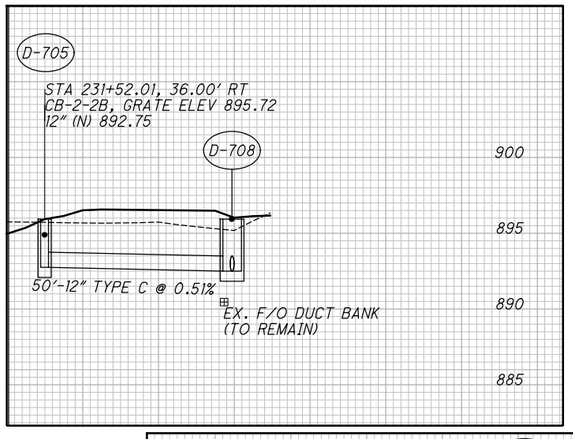

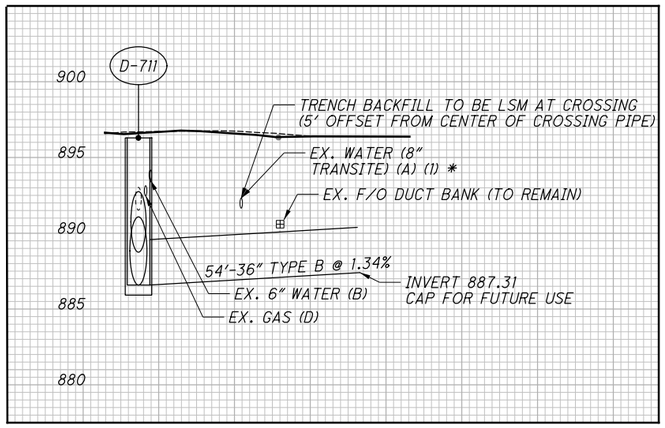

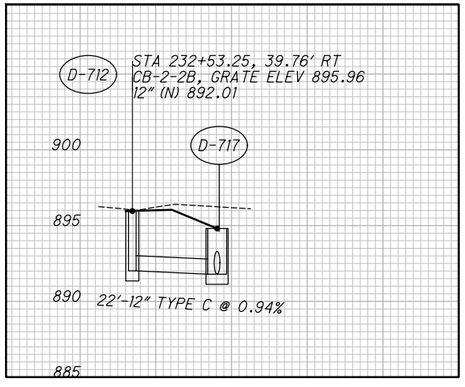

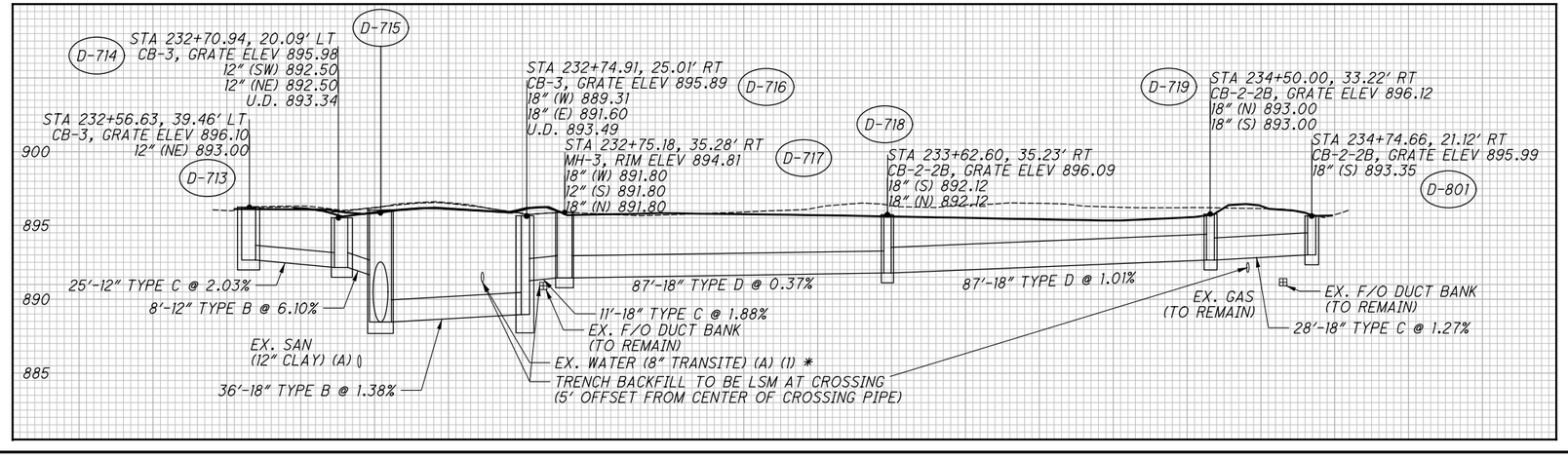

CALCULATED ZGR
CHECKED MDE

STORM SEWER PROFILES

CLA-CR315-1.28

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HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ATW
CHECKED JCH

UNDERDRAIN PLAN

CLA-CR315-1.28

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ATW
CHECKED JCH

UNDERDRAIN PLAN

CLA-CR315-1.28

93
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ITEM 611 - MANHOLE, NO. 3, AS PER PLAN

SANITARY SEWER MANHOLE NOTED AS PER PLAN SHALL BE THE TYPE AS SHOWN ON THE DRAWINGS AND PER STANDARD DETAILS PROVIDED IN THE DRAWINGS INCLUDING DOGHOUSE BASED. REFER TO DOGHOUSE STRUCTURE BASE DETAIL AS SHOWN ON THIS SHEET.

THIS ITEM SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT TO INSTALL NEW MANHOLE INCLUDING EXCAVATION, HAUL-OFF AND DISPOSAL OF EXCAVATED MATERIALS, DEWATERING, BYPASS PUMPING, BACKFILL, AND TESTING.

ITEM 611 - MANHOLE, MISC.: CONNECT TO EXISTING SAN. MANHOLE

THIS ITEM SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT TO INSTALL AND CONNECT NEW SEWER MAIN TO EXISTING MANHOLES INCLUDING EXCAVATION, HAUL-OFF AND DISPOSAL OF EXCAVATED MATERIALS, DEWATERING, BYPASS PUMPING, BACKFILL, AND TESTING.

SANITARY SEWER CONDUIT

SANITARY SEWER CONDUIT PLACED AS PART OF THIS PROJECT SHALL CONFORM TO ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS, 2019 FOR THE PIPE MATERIAL LISTED IN THIS NOTE. WHERE MATERIAL 707.45 IS MARKED, WORK SHALL CONFORM TO ASTM D-3034 WITH SDR 35. WHERE THE DRAWINGS CALL FOR THE PROPOSED SEWER TO CROSS EXISTING UTILITIES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING UTILITY, BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT FOR POSSIBLE CONFLICTS.

ALL RIGID MATERIAL INCLUDING, BUT NOT LIMITED TO, ASPHALT, CONCRETE, BRICK, CURB, CURB AND GUTTER, DRIVE APPROACHES, STONE, AND SOIL NECESSARY TO BE REMOVED TO OBTAIN THE PROPER ELEVATIONS IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM. PRIOR TO EXCAVATION OF RIGID MATERIAL, THE CONTRACTOR SHALL SAWCUT FULL DEPTH OF MATERIAL TO CREATE A STRAIGHT EDGE FOR NEW MATERIAL CONNECTIONS. WHEN DRAWINGS CALL FOR PLACEMENT OF NEW CONDUIT INTO EXISTING STRUCTURE, CONTRACTOR SHALL CORE EXISTING STRUCTURE USING A CIRCULAR BIT. WHEN CONNECTION OF AN EXISTING PIPE IS NECESSARY, CONTRACTOR SHALL MAKE THE CONNECTION OF THE TWO PIPES WITH A FERNCO COUPLING, OR AN APPROVED EQUAL. CONCRETE AND/OR MORTAR IS NOT AN ACCEPTABLE MANNER TO CONNECT TWO PIPES.

WHERE PROPOSED SANITARY SEWER CONDUIT CROSSES BELOW EXISTING VILLAGE OF ENON 8" TRANSITE WATER MAIN, THE CONTRACTOR SHALL SUPPORT THE EX. WATER MAIN WHILE PERFORMING SANITARY SEWER WORK. THIS WORK SHALL BE INCLUDED IN THE COST OF THIS PAY ITEM.

WHERE LOW STRENGTH MORTAR BACKFILL (LSM) OR GRANULAR STRUCTURAL MATERIAL (ODOT MATERIAL 703.11) IS SPECIFIED IN THE DRAWINGS, THE CONTRACTOR SHALL INCLUDE THIS WORK IN THE COST OF THIS PAY ITEM. SEE NOTE ON SHEET .

STEEL CASING SHALL BE FURNISHED AND INSTALLED IN THE AREAS MARKED IN THE DRAWINGS. STEEL CASING SHALL CONFORM TO ASTM A-1097. THIS WORK SHALL BE INCLUDED IN THE COST OF THIS PAY ITEM FOR THE DIAMETER PIPE IT APPLIES TO.

WHERE PROPOSED SANITARY SEWER CONDUIT CONNECTS AN EXISTING FORCE MAIN TO A PROPOSED MANHOLE, THE CONTRACTOR SHALL INSTALL APPROPRIATE TRANSITION COUPLING, AND INSTALL INSIDE DROP PIPE AS DETAILED ON THIS SHEET. THIS WORK SHALL BE INCLUDED IN THE COST OF THIS PAY ITEM.

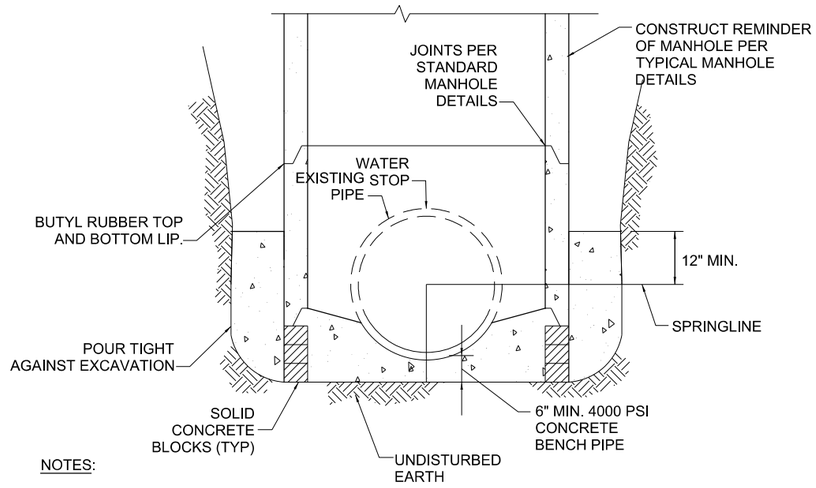
THE BELOW ITEMS SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT TO INSTALL NEW SEWER CONDUIT INCLUDING EXCAVATION, HAUL-OFF AND DISPOSAL OF EXCAVATED MATERIALS, DEWATERING, BYPASS PUMPING, BACKFILL, AND TESTING.

ITEM 611 - 10" CONDUIT, TYPE B, 707.45
ITEM 611 - 12" CONDUIT, TYPE B, 707.45

ITEM 611 - 8" CONDUIT, TYPE B, 748.01
ITEM 611 - 6" CONDUIT, TYPE B, 748.02
ITEM 611 - CONDUIT MISC.:
2" CONDUIT, TYPE B, 748.02

BYPASS PUMPING REQUIREMENTS

SANITARY SEWER FLOW DESCRIPTION	AVG (GPM)	MAX (GPM)
TO SAN-1 FROM NORTH ON ENON-XENIA RD.	265	1,330
4" FM NORTH OF SAN-4	NA	150
6" FM EAST FROM SAN-2	NA	300
TO SAN-3 FROM NORTH ON ENON-XENIA RD.	245	1,230
TO SAN-3A FROM EAST ON DAVIS AVE.	20	100
TO SAN-4 FROM NORTH ON ENON-XENIA RD.	216	1,085
TO SAN-5 FROM EAST ON REBERT PIKE	29	260
TO SAN-6 FROM WEST ON SOUTHERN VISTA DR.	80	390
TO SAN-6 FROM NORTH ON ENON-XENIA RD.	20	80
8" FM NORTH OF SAN-6	NA	400



NOTES:

1. BEFORE POURING CONCRETE ASSURE DOGHOUSE STABILITY, LEVEL, AND PLUMB.
2. USE SOLID CONCRETE BLOCKING FOR DOGHOUSE SUPPORT.
3. WAIT A MIN. OF 24 HOURS AFTER POUR BEFORE BACKFILL PLACEMENT.
4. BENCH TO HAVE SMOOTH FINISH WITH SLOPE OR FALL TO THE SPRINGLINE.
5. CUT PIPE AT THE SPRINGLINE.
6. PROVIDE WATER STOP BETWEEN CONCRETE BENCH AND PRECAST MANHOLE SECTION.

TYPICAL DOG-HOUSE MANHOLE BASE

NO SCALE

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	611 CONDUIT, MISC.: 2" CONDUIT, TYPE B, 748.02 FT	611 8" CONDUIT, TYPE B, 748.01 FT	611 10" CONDUIT, TYPE B, 707.45 FT	611 12" CONDUIT, TYPE B, 707.45 FT	611 MANHOLE, NO. 3 EACH	611 MANHOLE, NO. 3, AS PER PLAN EACH	611 MANHOLE, MISC.: CONNECT TO EXISTING SAN. MANHOLE EACH
96	SAN-1 TO SAN-2	203+28	203+30	LT - RT				70.2			
96	SAN-7	202+51	203+31	RT	87						
97	SAN-3 TO SAN-3A	213+54	213+56	LT - RT			259.1				
98	SAN-4 TO SAN-5	218+40	218+49	LT - RT		33.9					
99	CAP TO SAN-6	232+45	232+43	LT - RT		55.7					
96	SAN-1	203+28		LT						1	
96	SAN-2	203+30		RT					1		
97	SAN-3	213+54		LT						1	1
98	SAN-4	218+40		LT					1		
98	SAN-5	218+48		RT					1		
99	SAN-6	232+45		LT					1		
TOTALS CARRIED TO GENERAL SUMMARY					87	90	259	70	4	2	1

CALCULATED ATW CHECKED JCH

SANITARY SEWER NOTES

CLA-CR315-1.28

94
138

SHEET INTENTIONALLY LEFT BLANK
(RESERVED FOR COUNTY SANITARY DETAILS)

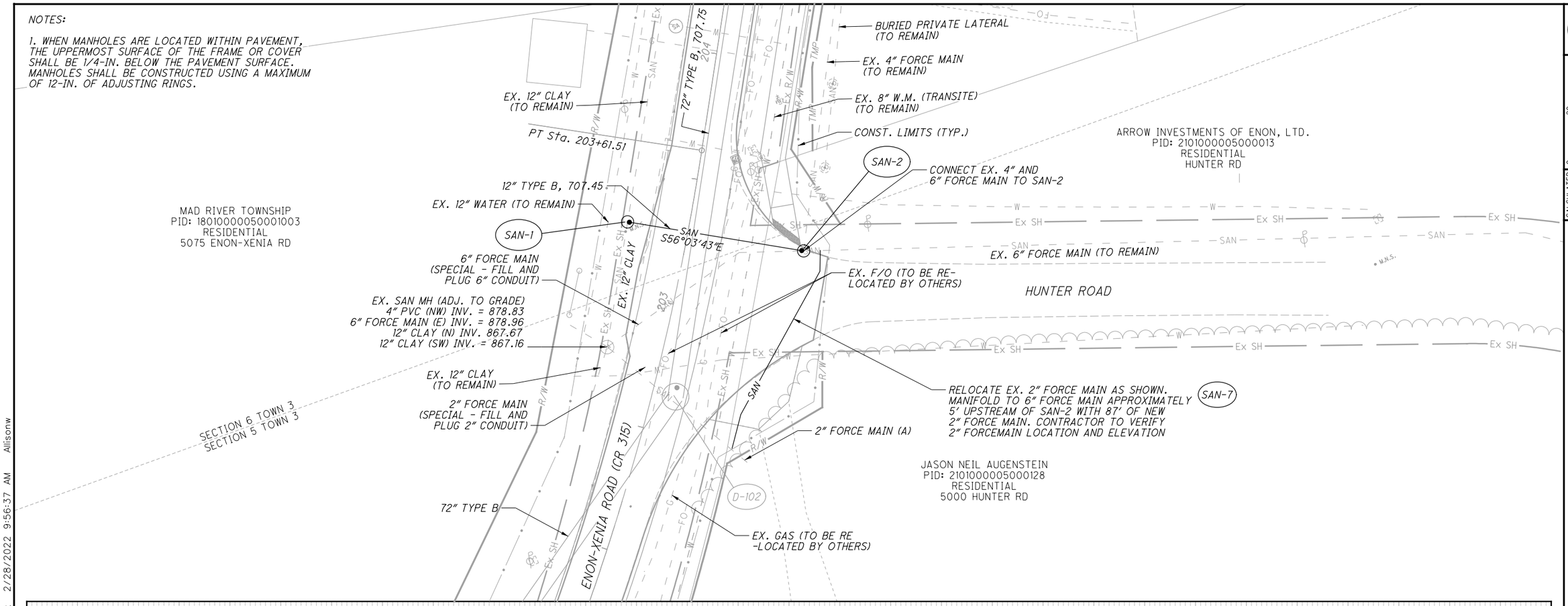
CALCULATED ATW
CHECKED JCH

SANITARY SEWER NOTES

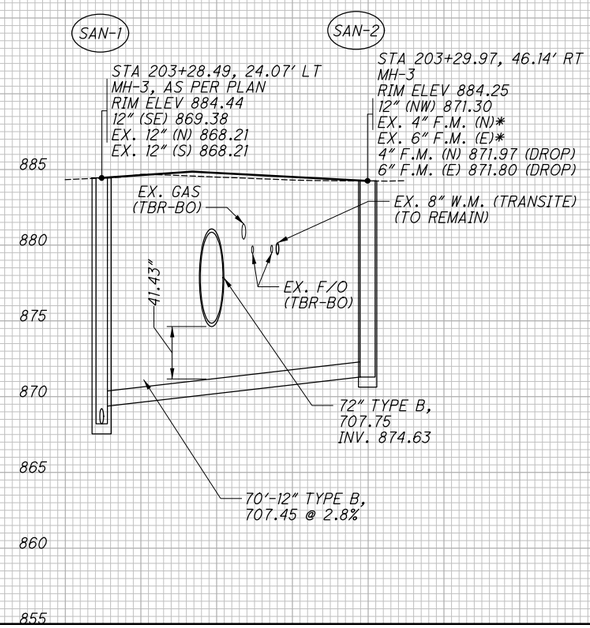
CLA-CR315-1.28

NOTES:

1. WHEN MANHOLES ARE LOCATED WITHIN PAVEMENT, THE UPPERMOST SURFACE OF THE FRAME OR COVER SHALL BE 1/4-IN. BELOW THE PAVEMENT SURFACE. MANHOLES SHALL BE CONSTRUCTED USING A MAXIMUM OF 12-IN. OF ADJUSTING RINGS.



* CONTRACTOR SHALL FEILD VERIFY FORCE MAIN ELEVATIONS



NOTE: PROFILE SHOWS THE WALL THICKNESS OF CONDUITS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED LR
CHECKED AWA

PLAN AND PROFILE
SANITARY WORK - HUNTER ROAD

CLA-CR315-1.28

96
138

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NOTES:

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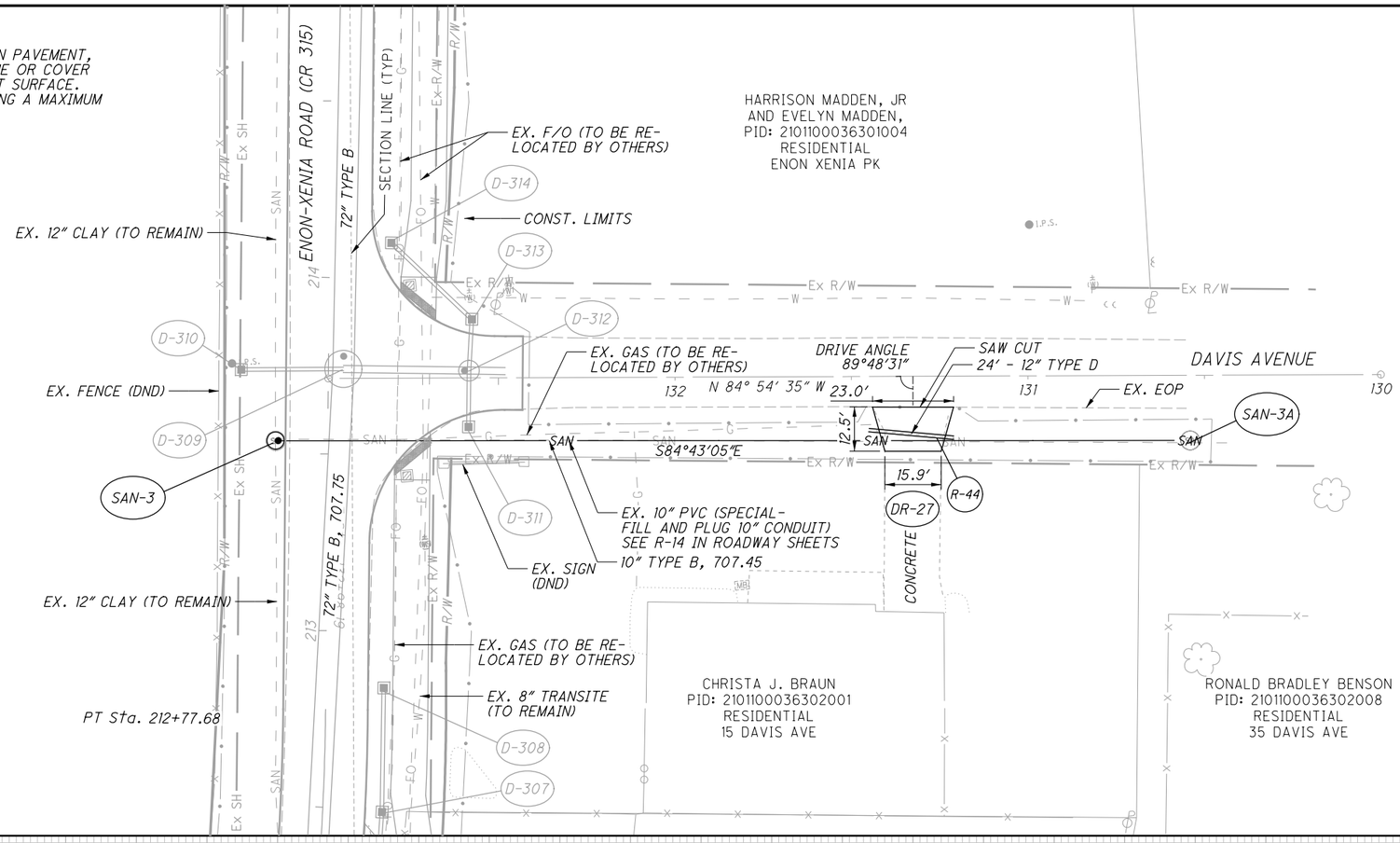

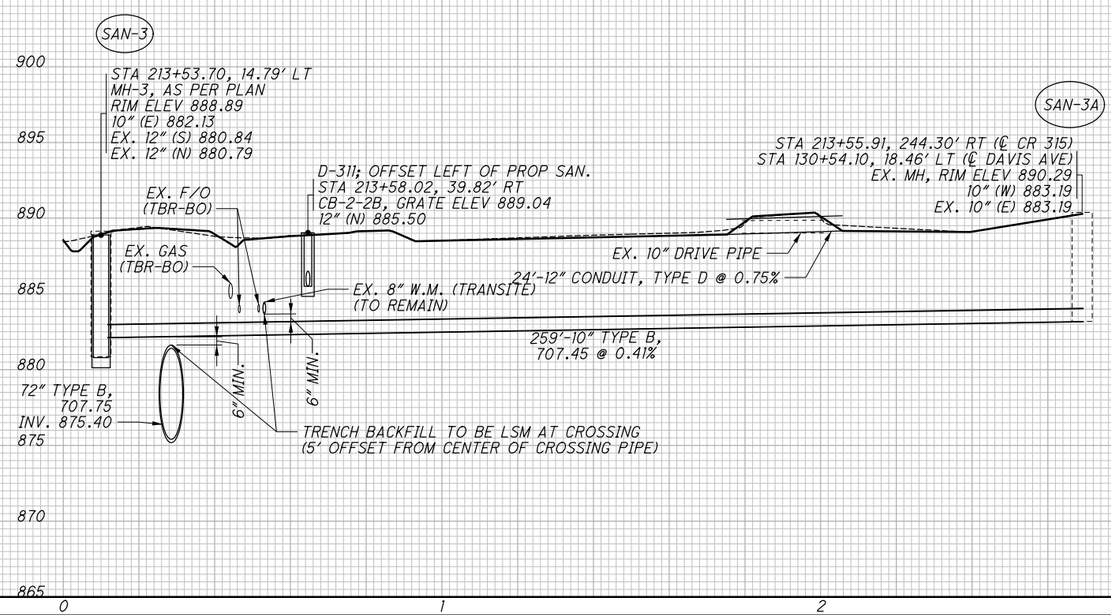

NOTE: PROFILE SHOWS THE WALL THICKNESS OF CONDUITS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED LR
CHECKED AWA

PLAN AND PROFILE
SANITARY WORK - DAVIS AVENUE

CLA-CR315-1.28

97
138

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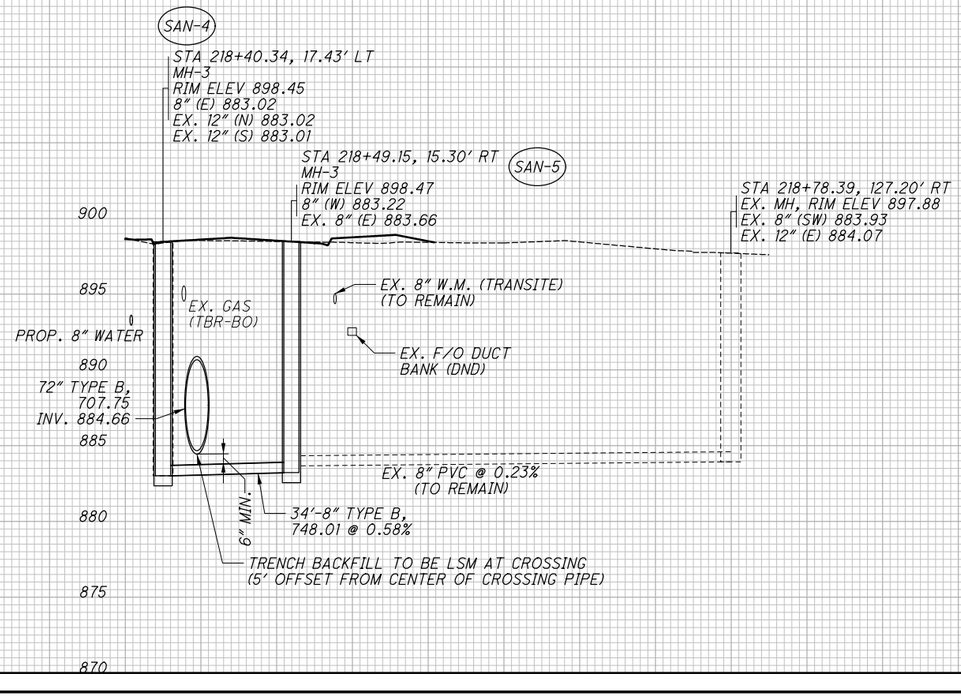
LOYD E. HARDY AND
MARY R. HARDY
PID: 1801000006408016
RESIDENTIAL
4675 ENON-XENIA RD

BOARD OF EDUCATION OF
THE MAD RIVER-GREEN
LOCAL SCHOOL DISTRICT
PID: 21011000360001008
EDUCATIONAL

HILLSIDE CREEK FARMS LLC
PID: 1801000006409003
AGRICULTURAL

HARRISON MADDEN, JR
AND EVELYN MADDEN
PID: 2101100036301036
RESIDENTIAL
REBERT PK

EX. F/O DUCT BANK (TO REMAIN)
EX. 8" TRANSITE (TO REMAIN)
EX. F/O VAULT (DND)
EX. SAN MH (TO REMAIN)
EX. 12" PVC (TO REMAIN)
EX. 8" PVC (TO REMAIN)
EX. GAS (TO BE RE-LOCATED BY OTHERS)
EX. 12" CLAY (TO REMAIN)
PROP. WATER MAIN
EX. 12" CLAY (TO REMAIN)
EX. GAS (TO BE RE-LOCATED BY OTHERS)
EX. F/O (TO BE RE-LOCATED BY OTHERS)
72" TYPE B
8" TYPE B, 748.01
N 80° 19' 16" E
N 85° 04' 01" W
REBERT PIKE
ENON-XENIA ROAD (CR 315)
SAN-4
SAN-5
D-403
D-404
SAN
Ex R/W
Ex SH



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HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED LR
CHECKED AWA

PLAN AND PROFILE
SANITARY WORK - REBERT PIKE

CLA-CR315-1.28

98
138

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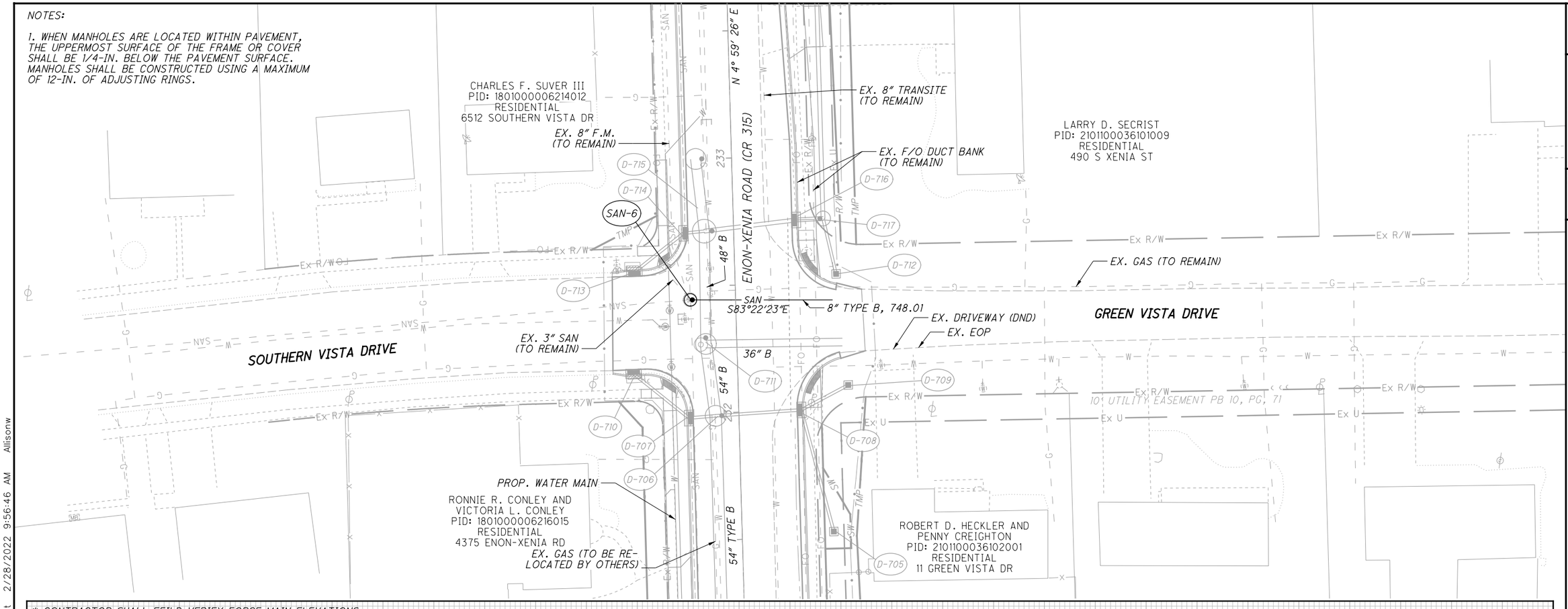

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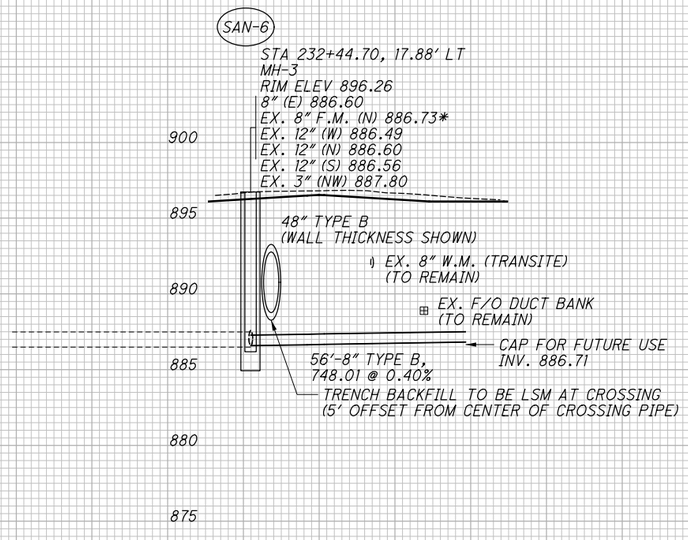

NOTE: PROFILE SHOWS THE WALL THICKNESS OF CONDUITS

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED LR
CHECKED AWA

PLAN AND PROFILE
SANITARY WORK - GREEN VISTA DRIVE

CLA-CR315-1.28

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138

MATERIAL SPECIFICATIONS

WATER MAIN SHALL BE AWWA C-151 DUCTILE IRON MINIMUM THICKNESS CLASS 50, SLIP-ON JOINTS WITH RUBBER GASKETS.

BELL JOINT RESTRAINTS – USE FIELD LOCK BY US PIPE OR APPROVED EQUIVALENT.

MECHANICAL JOINT RESTRAINTS – EBBA IRON MEGALUG RETAINER GLAND OR EQUIVALENT.

FIRE HYDRANTS – MUELLER CENTURION, A-423, MECHANICAL JOINT, WITH (2) 2 1/2" HOSE NOZZLES, (1) 4 1/2" PUMPER NOZZLE NATIONAL STANDARDS THREADS CONFORMING TO AWWA, CCW TO OPEN, BREAK FLANGES OR APPROVED EQUIVALENT.

GATE VALVES – AWWA C-509, RESILIENT WEDGE, NON-RISING STEM, MECHANICAL JOINT, 150 PSI WORKING PRESSURE, CCW TO OPEN, WITH ARROW INDICATING OPEN

VALVE BOXES – 3-PIECE CAST IRON 6" DIAMETER NOMINAL, ADJUSTABLE SCREW TYPE, COVER MARKED "WATER", DOMESTIC MADE ONLY.

SERVICE LINE – K TYPE COPPER TUBE SIZE (CTS).

CURB STOP – BRASS CONFORMING TO AWWA C-800.

CURB BOXES – EXTENSION MINNEAPOLIS STYLE AND CAST IRON LID WITH PENTAGON HEAD PLUG EM2-45-67.

SERVICE CONNECTIONS WILL NOT BE MADE WITHOUT THE INSTALLATION OF A METER.

HYDROSTATIC TEST

A. AFTER THE PIPE HAS BEEN LAID AND BACKFILLED, ALL NEWLY LAID PIPE OR VALVED SECTION, SHALL BE SUBJECTED TO HYDROSTATIC PRESSURE AND LEAKAGE TEST. ALL WATER MAINS MUST BE HYDROSTATICALLY TESTED (AWWA C-600). THE TESTS MUST BE PERFORMED IN THE PRESENCE OF A REPRESENTATIVE OF THE COUNTY. THE LEAKAGE TEST PRESSURE SHALL BE NOT LESS THAN 150 PSI. THE DURATION OF THE LEAKAGE TEST SHALL NOT BE LESS THAN 2 HOURS. HYDROSTATIC PRESSURE SHALL BE APPLIED BY MEANS OF A PUMP TAKING WATER FROM AN AUXILIARY SUPPLY. ALL PIPING MUST BE PROPERLY FILLED AND FLUSHED TO DISPEL ALL AIR BEFORE THE TEST IS MADE USING POTABLE WATER.

B. LEAKAGE IS DEFINED AS THE QUANTITY OF WATER TO BE SUPPLIED INTO THE NEWLY LAID PIPE, OR ANY VALVED SECTION THEREOF, NECESSARY TO MAINTAIN THE SPECIFIED LEAKAGE TEST PRESSURE AFTER THE PIPE HAS BEEN FILLED WITH WATER AND THE AIR EXPELLED.

C. NO PIPE INSTALLATION WILL BE ACCEPTED IF THE LEAKAGE EXCEEDS THE LEAKAGE DETERMINED BY THE FOLLOWING FORMULA:

$$L = \frac{n\,D\,\sqrt{P}}{7400}$$

WHERE: n = NUMBER OF PIPE JOINTS
D = PIPE DIAMETER
P = TEST PRESSURE
L = ALLOWABLE LEAKAGE PER HOUR

THE FOLLOWING TABLE REPRESENTS THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR.

D. DURING THE HYDROSTATIC TEST, A THOROUGH EXAMINATION OF ALL PIPING, FITTINGS, VALVES, HYDRANTS, ETC. SHALL BE PERFORMED. LEAKING JOINTS SHALL BE TIGHTENED AND CRACKED OR OTHERWISE DEFECTIVE MATERIAL SHALL BE REMOVED AND REPLACED AND THE TEST SHALL BE REPEATED UNTIL SATISFACTORY RESULTS ARE OBTAINED.

DISINFECTION

A. AFTER SATISFACTORY HYDROSTATIC TESTING, THE COMPLETED WATER WORK SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C-651.

B. MAINTAIN PIPES FREE OF DIRT AND FOREIGN MATTER DURING CONSTRUCTION BY DEWATERING TRENCH AND SEALING OPEN PIPE BARRELS. SWAB EACH LENGTH OF PIPE AS IT IS INSTALLED. UPON COMPLETION OF MAIN, ISOLATE MAIN SEGMENTS AND FLUSH PIPE AT 2 FPS VELOCITY.

C. STERILIZE MAIN IN ACCORDANCE WITH AWWA C-651. INJECT 3% TO 5% HYPOCHLORITE SOLUTION TO PROVIDE 50 TO 60 MG PER LITER CONCENTRATION IN MAIN. CHLORINE MUST BE PLACED IN EACH SECTION OF PIPE AT THE TIME OF INSTALLATION. SAMPLE WATER AT EACH HYDRANT OR IF NO HYDRANT IS AVAILABLE, AT A TAP IN THE PROPOSED LINE. ANALYZE SAMPLE USING ORTHOTOLIDINE REAGENT TO VERIFY FREE CHLORINE CONCENTRATION. MAINTAIN CONCENTRATION IN MAIN FOR 24 HOURS. SAMPLE HYDRANTS AT COMPLETION OF STERILIZATION VERIFYING MINIMUM CHLORINE RESIDUAL OF 20 MG PER LITER.

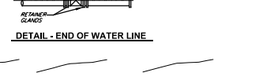
D. FLUSH CHLORINE SOLUTION TO WASTE INTO SANITARY SEWER AT A CONTROLLED RATE, NOT TO EXCEED 25 GPM, IF CHLORINE RESIDUAL DROPS IN 10 MG PER LITER, FLUSH MAIN AT 2 FPS AND REPEAT STERILIZATION PROCEDURE.

E. WATER SAMPLES – PERFORM BACTERIOLOGICAL TEST PER AWWA C-651. SAMPLE MAIN AT HYDRANT OR IF HYDRANT IS NOT AVAILABLE, AT A TAP IN THE PROPOSED LINE. DELIVER SAMPLE TO STATE CERTIFIED LABORATORY. DELIVER COPIES OF LABORATORY REPORT TO THE COUNTY IN THE EVENT OF DETECTION OF COLIFORM ORGANISM, REPEAT FLUSHING, STERILIZATION, AND SAMPLING OF MAINS UNTIL ACCEPTABLE TEST RESULTS ARE ACHIEVED. THIS IS TO BE PERFORMED PRIOR TO TRANSFER OF SERVICE.

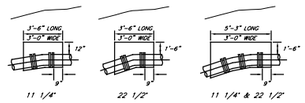
ALLOWABLE LEAKAGE PER 1000 FT. (305M) OF PIPELINE (GPH+)

AVG. TEST PRESSURE (PSI) BAR	NOMINAL PIPE DIAMETER – INCHES 3	4	6	8	10	12	14	16	18	20	24	30
450 (31)	0.48	0.64	0.95	1.27	1.59	1.91	2.23	2.55	2.87	3.18	3.82	4.78
400 (28)	0.45	0.60	0.90	1.20	1.50	1.80	2.10	2.40	2.70	3.00	3.60	4.50
350 (24)	0.42	0.56	0.84	1.12	1.40	1.69	1.97	2.25	2.53	2.81	3.37	4.21
300 (21)	0.39	0.52	0.78	1.04	1.30	1.56	1.82	2.08	2.34	2.60	3.12	3.90
275 (19)	0.37	0.50	0.75	1.00	1.24	1.49	1.74	1.99	2.24	2.49	2.99	3.73
250 (17)	0.36	0.47	0.71	0.95	1.19	1.42	1.66	1.90	2.14	2.37	2.85	3.56
225 (16)	0.34	0.45	0.68	0.90	1.13	1.35	1.58	1.80	2.03	2.25	2.70	3.38
200 (14)	0.32	0.43	0.64	0.85	1.06	1.28	1.48	1.70	1.91	2.12	2.55	3.19
175 (12)	0.30	0.40	0.59	0.80	0.99	1.19	1.39	1.59	1.79	1.98	2.38	2.98
150 (10)	0.28	0.37	0.55	0.74	0.92	1.10	1.29	1.47	1.66	1.84	2.21	2.76
120 (9)	0.25	0.34	0.50	0.67	0.84	1.01	1.18	1.34	1.51	1.68	2.01	2.52

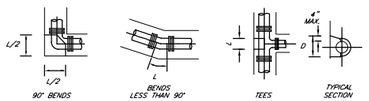
WATER MAIN MATERIAL & TESTING NOTES



DETAIL - END OF WATER LINE



CONCRETE BLOCKING FOR VERTICAL BENDS



CONCRETE BLOCKING FOR HORIZONTAL BENDS

THRUST BLOCKS AREA (Lx D) REQUIRED

SIZE OF PIPE	11 1/4°	22 1/2°	45°	90°	TEE OR PLUG
4"	1	1	1	1.3	1
6"	1	1	1.6	3	2.1
8"	1	1.5	2.9	5	4
10"	1.2	2.3	5	8	6
12"	1.7	3	7	12	9
16"	3	6	12	21	15

BENDS

SIZE OF OPENING	DEGREE OF BEND 11 1/4° L	D	22 1/2° L	D	45° L	D	90° L	D
3", 4", 6"	8"	6"	10"	6"	20"	6"	36"	6"
8"	9"	8"	14"	8"	24"	9"	50"	8"
12"	14"	12"	22"	12"	30"	16"	60"	15"
16"	18"	16"	24"	18"	33"	36"	70"	22"

TEES

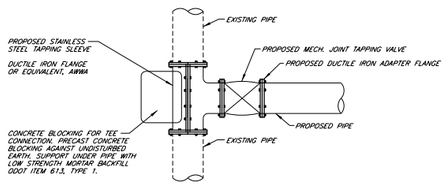
RUN	BRANCH 3", 4", 6" L	D	22 1/2° L	D	45° L	D	90° L	D
3", 4", 6"	8"	6"	10"	6"	20"	6"	36"	6"
8"	9"	8"	14"	8"	24"	9"	50"	8"
12"	14"	12"	22"	12"	30"	16"	60"	15"
16"	18"	16"	24"	18"	33"	36"	70"	22"

NOTES
A. CARE SHALL BE TAKEN TO KEEP CONCRETE AWAY FROM MECHANICAL JOINTS BY PLACING VISQUEEN OR OTHER APPROVED MATERIAL OVER PIPE BEFORE PLACING OF CONCRETE.

B. CONCRETE FOR BLOCKING VALVES AND FITTINGS SHALL CONFORM TO SECTION ODOT 499 CLASS C.

C. CONTRACTOR SHALL USE THE THRUST BLOCKS AS SHOWN ONLY IF PREAPPROVED FOR SPECIAL CONDITION BY THE COUNTY PRIOR TO BEGINNING CONSTRUCTION.

CONCRETE BLOCKING DETAIL

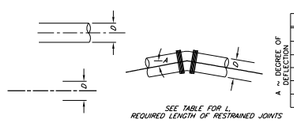


TAPPING SLEEVE AND VALVE DETAIL

NOTES
A. BELL JOINT RESTRAINTS – FOR PVC, USE EBAA IRON SERIES 1500 OR EQUIVALENT. FOR DIP, USE FIELD LOCK BY U.S. PIPE OR APPROVED EQUIVALENT.

B. MECHANICAL JOINT RESTRAINTS – EBAA IRON MEGALUG RETAINER GLAND OR EQUIVALENT.

C. CONTRACTOR TO USE RESTRAINED JOINTS UNLESS THRUST BLOCKING IS PREAPPROVED FOR SPECIAL CONDITIONS BY THE COUNTY PRIOR TO THE BEGINNING OF CONSTRUCTION.



D = DIAMETER OF PIPE

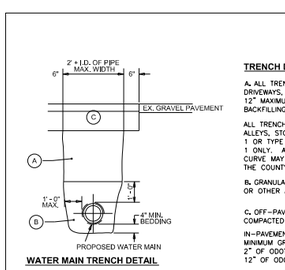
Δ = DEGREE OF DEFLECTION	4"	6"	8"	10"	12"	16"	20"	24"
11 1/4°	*	*	*	*	*	5	5	6
22 1/2°	*	2	3	5	6	8	10	12
45°	4	8	12	14	20	30	36	45
90°	12	26	38	48	66	98	125	145
TEE	12	26	38	48	66	98	125	145
END	12	26	38	48	66	98	125	145

* REQUIRED RESTRAINED JOINT AT FITTING AND ONE BELL JOINT FROM FITTING MINIMUM.

DESIGN PARAMETERS
LAYING CONDITIONS – TYPE 5
SOIL DESIGNATION – SILT
DEPTH OF COVER – 4'
DESIGN PRESSURE – 80 PSI
SAFETY FACTOR – 1.50
POLYWRAPPED PIPE
IF WORST CONDITIONS EXIST, ADDITIONAL RESTRAINTS WILL BE NECESSARY.

REQUIRED LENGTH OF RESTRAINED JOINTS FOR WATER MAINS

RESTRAINING JOINT & TAPPING SLEEVE DETAIL



WATER MAIN TRENCH DETAIL

TRENCH DETAIL NOTES

A. ALL TRENCH EDGES NOT UNDER OR WITHIN 5' OF PROPOSED OR EXISTING PAVEMENT, CURB, DRIVEWAYS, ALLEYS, STONE AREA OR WALKS CAN BE COMPACTED EXISTING NATIVE MATERIAL IN 12" MAXIMUM LIFTS OR AS APPROVED BY THE COUNTY. NO MATERIAL SHALL BE USED FOR BACKFILLING THAT CONTAINS STONE, ROCKS, ETC., GREATER THAN 4" DIAMETER.

ALL TRENCH EDGES UNDER OR WITHIN 5' OF PROPOSED OR EXISTING PAVEMENT, CURB, DRIVEWAYS, ALLEYS, STONE AREA OR WALKS SHALL EITHER BE GRANULAR BACKFILL MATERIAL ODOT 603 TYPE 1 OR TYPE 2, IN 6" MAXIMUM LIFTS OR LOW STRENGTH MORTAR BACKFILL ODOT ITEM 613 TYPE 1 ONLY. A DENSITY TEST ON GRANULAR BACKFILL OF 98% ASTM D698 STANDARD PROCTOR CURVE MAY BE REQUIRED TO BE PREFORMED BY A COMMERCIAL TESTING LAB SATISFACTORY TO THE COUNTY.

B. GRANULAR BEDDING SHALL BE CRUSHED STONE OR GRAVEL, ODOT 603 TYPE 3 (#57 OR #67). OR OTHER APPROVED EQUIVALENT.

C. OFF-PAVEMENT AREAS SHALL BE PROVIDED WITH A MINIMUM OF 12" TOPSOIL OVER THE COMPACTED MATERIAL AND THEN SEEDED AND MULCHED PER ODOT ITEM 659.

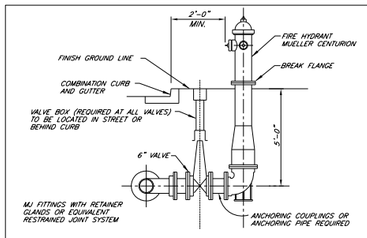
IN-PAVEMENT AREAS SHALL CONSIST OF THE FOLLOWING:
MINIMUM GRAVEL PAVEMENT REPLACEMENT
2" OF ODOT #67 ON
12" OF ODOT ITEM 304, IN LIFTS OF 3" MAXIMUM

MINIMUM ASPHALT PAVEMENT REPLACEMENT
1-1/4" OF ODOT ITEM 404 ON
2-3/4" OF ODOT ITEM 402 ON
9" OF ODOT ITEM 304 IN LIFTS OF 3" MAXIMUM

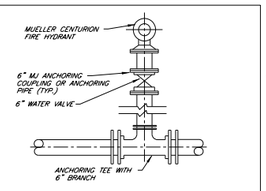
WHERE THE EXISTING PAVEMENT IS THICKER, THE CONTRACTOR SHALL INCREASE THE COURSE THICKNESS TO MATCH EXISTING.

D. THE OPEN ENDS OF ALL PIPES SHALL BE PLUGGED TO THE APPROVAL OF THE COUNTY BEFORE LEAVING THE WORK FOR THE NIGHT.

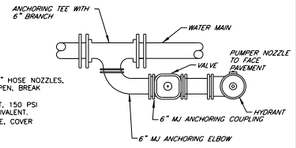
WATER MAIN TRENCH DETAIL



SECTION VIEW



BASIC TEE DETAIL PLAN



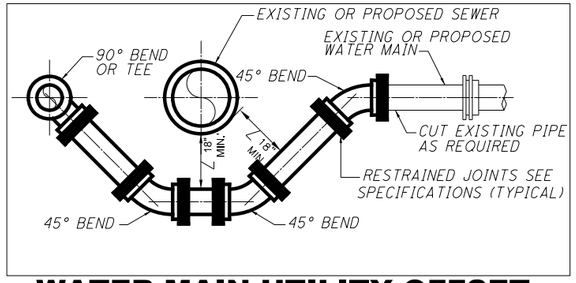
SPECIAL MECHANICAL JOINT HYDRANT TEE DETAIL PLAN

NOTES
A. FIRE HYDRANTS SHALL BE MUELLER CENTURION, A-423, MECHANICAL JOINT, WITH (2) 2-1/2" HOSE NOZZLES, (1) 4 1/2" PUMPER NOZZLE, NATIONAL STANDARDS THREADS CONFORMING TO AWWA CCW TO OPEN, BREAK FLANGES 3" ABOVE GRADE OR APPROVED EQUIVALENT.
B. GATE VALVES SHALL BE AWWA C-509, RESILIENT WEDGE, NONRISING STEM, MECHANICAL JOINT, 150 PSI WORKING PRESSURE, CCW TO OPEN WITH ARROW INDICATING OPEN DIRECTION, MUELLER OR EQUIVALENT.
C. VALVE BOXES SHALL BE 3-PIECE CAST IRON 6" DIAMETER NOMINAL, ADJUSTABLE SCREW TYPE, COVER MARKED "WATER", DOMESTIC MADE ONLY.
D. ALL FITTINGS TO BE RESTRAINED.
E. ALL FITTINGS TO BE AWWA C-153 DUCTILE IRON, COMPACT.
F. ALL VALVES AND HYDRANTS SHALL OPEN LEFT BY TURNING IN A COUNTERCLOCKWISE DIRECTION.
G. CONTRACTOR TO FACE HYDRANT TOWARDS ADJACENT PAVEMENT.
H. WATER MATERIAL SHALL BE DUCTILE IRON PIPE PRESSURE CLASS 350 PSI, AWWA C-151, SLIP-ON JOINTS WITH RUBBER GASKETS OR APPROVED EQUIVALENT.
I. THE LAYING OF PIPE ON EXISTING DIRT WITH THE BELLS CUT OUT, SHALL NOT BE PERMITTED.
J. THE OPEN ENDS OF ALL PIPES AND SPECIAL CASTINGS SHALL BE PLUGGED OR OTHERWISE CLOSED WITH A WATERTIGHT PLUG TO THE APPROVAL OF THE COUNTY BEFORE LEAVING THE WORK FOR THE NIGHT.

FIRE HYDRANT DETAIL

WATER SERVICE CONNECTIONS

WATER SERVICE TAG	PARCEL NO.	SERVICE SIZE
WS1	1801000006408016	3/4-INCH
WS2	1801000006408015	3/4-INCH
WS3	1801000006408014	3/4-INCH
WS4	1801000006408013	3/4-INCH
WS5	1801000006408012	3/4-INCH
WS6	1801000006408011	3/4-INCH
WS7	1801000006408010	3/4-INCH
WS8	1801000006408009	3/4-INCH
WS9	1801000006401026	3/4-INCH
WS10	1801000006401025	3/4-INCH
WS11	1801000006401024	3/4-INCH
WS12	1801000006401023	3/4-INCH
WS13	1801000006401022	3/4-INCH
WS14	1801000006401021	3/4-INCH
WS15	1801000006401020	3/4-INCH
WS16	1801000006216016	3/4-INCH
WS17	1801000006216015	3/4-INCH



WATER MAIN UTILITY OFFSET

NOTE:
1. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL WATER SERVICE LEADS IN THE FIELD PRIOR TO PERFORMING ANY TAPS. WATER SERVICE LOCATIONS ON THE DRAWINGS ARE NOT EXACT AND ARE FOR INFORMATIONAL PURPOSES ONLY.
2. THE COUNTY UTILITIES DEPARTMENT WILL BE RESPONSIBLE FOR BACTERIA TESTING DURING CONSTRUCTION. CONTRACTOR SHALL CONTACT THE COUNTY 48 HOURS IN ADVANCE TO SCHEDULE SAMPLING.
3. ALL EXISTING WATER SERVICE LINES 2 INCHES IN DIAMETER AND LESS CONNECTED TO THE MAIN TO BE ABANDONED SHALL BE REPLACED WITH A MINIMUM 3/4 INCH DIAMETER OR SAME SIZE LINE. SERVICES SHALL BE K TYPE COPPER AND BE A SINGLE SEGMENT OF PIPE WITH NO SPLICES OR UNIONS BETWEEN TAP AND CURB STOP.
4. PRIOR TO THE START OF ANY WATER MAIN CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A MAINTENANCE OF WATER SERVICE PLAN TO THE COUNTY UTILITIES DEPARTMENT FOR REVIEW. THIS PLAN WILL DETAIL THE FOLLOWING:
   a. SEGMENTS OF WATER MAIN TO BE CONSTRUCTED AND TESTED.
   b. THE LOCATIONS AND LENGTHS OF ANY TEMPORARY WATER SERVICE SHUTDOWNS. ALL SHUTDOWNS MUST BE COORDINATED WITH THE COUNTY A MINIMUM OF 72 HOURS IN ADVANCE. CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE THE SHUTDOWN AREA AND DURATION AND COORDINATE SERVICE SHUTDOWNS FOR BUSINESSES TO REDUCE / ELIMINATE DISRUPTION DURING NORMAL BUSINESS HOURS.
   c. UTILIZATION OF TEMPORARY WATER MAIN SERVICES IF NECESSARY.
   d. PLAN FOR MAINTAINING FIRE HYDRANT COVERAGE. HYDRANTS TO BE REMOVED OR RELOCATED CANNOT BE DONE UNTIL THE NEW MAIN HAS BEEN TESTED AND APPROVED.
5. CONNECTIONS TO EXISTING WATER LINES THAT ARE LOOPED AND TO REMAIN IN SERVICE SHALL BE DONE BY MINIMIZING THE LENGTH OF WATER MAIN TO BE TEMPORARILY OUT OF SERVICE. A LINE TAP OR INSTALLATION OF A LINE STOP ON THE EXISTING MAIN AT OR NEAR THE PAVING LIMIT WILL BE NOTED. THE COUNTY MAY WAIVE THE INSTALLATION OF THE VALVE IF AN EXISTING VALVE IS CLOSE ENOUGH TO ISOLATE THE SEGMENT OF THE MAIN WITHOUT INTERRUPTING SERVICE TO ANY COMMERCIAL BUSINESS.
6. NOTES APPLY TO CLARK COUNTY WATER MAIN WORK. ENON WATER MAIN IS TO REMAIN IN PLACE EXCEPT AS NOTED ON THE DRAWINGS.

CALCULATED PER
CHECKED MDE

WATER MAIN NOTES

CLA-CR315-1.28

ITEM 638 - FIRE HYDRANT REMOVED AND DISPOSED OF, AS PER PLAN (VILLAGE OF ENON)

THIS ITEM INCLUDES ALL WORK TO REMOVE AND DISPOSE OF EXISTING HYDRANTS IN ACCORDANCE WITH SECTION 638. THE HYDRANTS FOR THIS ITEM ARE CONNECTED TO THE EX. TRANSITE WATER MAIN. THE CONTRACTOR MUST SHUT DOWN THE TRANSITE MAIN TO PERFORM THIS WORK AND SHALL NOTIFY THE VILLAGE OF ENON AND THE ENGINEER TWO WEEKS PRIOR TO PERFORMING THIS WORK.

VILLAGE OF ENON WATER WORK NOTES

CONTRACTOR TO PROVIDE A MINIMUM OF 2 WEEKS NOTICE TO VILLAGE PRIOR TO COMMENCING WORK THAT REQUIRES DISRUPTION TO WATER SERVICE.

CONTRACTOR TO LIMIT COMPACTION AND COMPACTION EQUIPMENT TO WITHIN A 5-FT OFFSET ON EITHER SIDE OF THE TRANSITE WATER MAIN IN AREAS OF LIMITED COVER ABOVE TRANSITE MAIN. SEE NOTE ON SHEET 9.

ALL VILLAGE OF ENON HYDRANTS TO BE REPLACED WITH NEW HYDRANTS AS SHOWN ON THE PLANS.

METER PIT ADJUSTMENTS: USE ADJUSTING RINGS TO RAISE METER PIT. REMOVE AND RESET PIT TO LOWER METER PIT.

THE CONTRACTOR IS TO VERIFY THE DEPTH OF THE TRANSITE WATER MAIN AS NOTED IN THE DRAWINGS. IN THE EVENT THAT THE TRANSITE MAIN CONFLICTS WITH THE PROPOSED WORK, THE CONTRACTOR SHALL RELOCATE THE MAIN AS DIRECTED BY THE ENGINEER. THE FOLLOWING QUANTITIES ARE INCLUDED AS CONTINGENCY FOR THIS WORK:

SPECIAL - 8" WATER MAIN DIP AND FITTINGS (VILLAGE OF ENON) 110 FT

POLYWRAP AT MARATHON PETROLEUM PIPELINE

THE CONTRACTOR SHALL WRAP THE PROPOSED WATER LINE WITH MINIMUM 8 MM BLUE POLYETHYLENE SLEEVE 10 FT BOTH SIDES (20 FT TOTAL) OF WATER LINE CROSSING OF THE HIGH PRESSURE PETROLEUM PIPELINE. USE POLYWRAP OR APPROVED EQUAL. THE FOLLOWING QUANTITY HASE BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS WORK:

ITEM 638 - POLYETHYLENE ENCASEMENT 20 FT

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	638 SPECIAL - 6" WATER MAIN DIP AND FITTINGS (CLARK COUNTY STANDARD NOTES)	638 SPECIAL - 8" WATER MAIN DIP AND FITTINGS (CLARK COUNTY STANDARD NOTES)	638 SPECIAL - 3/4" COPPER WATER SERVICE LINE (CLARK COUNTY STANDARD NOTES)	638 SPECIAL - CUT AND PLUG EXISTING 6" WATER LINE
					FT	FT		EACH
103-106	WM-1	218+08	233+23	LT		1525.5		
104	WM-2	224+33	224+36	LT	8			
104	WM-3	224+36		LT				1
106	WM-4	232+34	232+37	LT	8			
106	WM-5	232+37		LT				1
106	WM-6	233+15		LT				1
103	WS-1	218+92		LT			5	
103	WS-2	219+40		LT			5	
104	WS-3	220+10		LT			5	
104	WS-4	220+81		LT			5	
104	WS-5	221+51		LT			5	
104	WS-6	222+12		LT			5	
104	WS-7	222+79		LT			5	
104	WS-8	223+74		LT			5	
105	WS-9	225+22		LT			5	
105	WS-10	225+91		LT			5	
105	WS-11	226+49		LT			5	
105	WS-12	227+27		LT			5	
105	WS-13	227+96		LT			5	
105	WS-14	228+67		LT			5	
105	WS-15	229+39		LT			5	
106	WS-16	230+79		LT			5	
106	WS-17	231+70		LT			5	
TOTALS CARRIED TO GENERAL SUMMARY					16	1526	85	3

CALCULATED PER
CHECKED MDE

WATER MAIN NOTES

CLA-CR315-1.28

SHEET NO.	REFERENCE NO.	STATION FROM	STATION TO	SIDE	638 6" GATE VALVE AND VALVE BOX EACH	8" GATE VALVE AND VALVE BOX EACH	6" FIRE HYDRANT EACH	SPECIAL - 6" FIRE HYDRANT (CLARK COUNTY STANDARD DETAILS) EACH	SPECIAL - FIRE HYDRANT REMOVED AND DISPOSED OF (VILLAGE OF ENON) EACH	FIRE HYDRANT REMOVED AND DISPOSED OF EACH	FIRE HYDRANT ADJUSTED TO GRADE EACH	SPECIAL - VALVE BOX ADJUSTED TO GRADE (VILLAGE OF ENON) EACH	SPECIAL - SERVICE BOX ADJUSTED TO GRADE (VILLAGE OF ENON) EACH	SPECIAL - 6" WATER MAIN DIP AND FITTINGS (CLARK COUNTY STANDARD NOTES) FT	SPECIAL - 6" CUTTING IN SLEEVE EACH	SPECIAL - 8" X 6" TAPPING SLEEVE, VALVE AND VALVE BOX (CLARK COUNTY STANDARD DETAILS) EACH
104	CS-1	224+36		LT											1	
106	CS-2	232+37		LT											1	
106	CS-3	233+23		LT											1	
35	FH-1	201+15		RT							1					
36	FH-2	209+45		RT					1							
36	FH-3	209+45		RT			1							9.2		1
103	FH-4	218+11		LT	1			1						4		
103	FH-5	218+21		RT					1							
103	FH-6	218+30		RT			1							4		1
104	FH-7	220+15		RT					1							
104	FH-8	220+18		RT			1							31.1		1
104	FH-9	220+40		LT						1						
104	FH-10	222+73		LT	1			1						4		
105	FH-11	227+73		LT	1			1						4		
106	FH-12	232+61		LT							1					
105	FH-13	225+46		LT						1						
35	SB-1	203+62		RT									1			
35	SB-2	203+85		RT									1			
36	SB-3	205+80		RT									1			
36	SB-4	207+40		RT									1			
37	SB-5	210+59		RT									1			
106	SB-6	233+06		RT									1			
106	SB-7	234+42		RT									1			
37	VB-1	213+25		RT								1				
103	VB-2	218+11		LT		1										
103	VB-3	218+13		RT								1				
103	VB-4	218+25		RT								1				
104	VB-5	220+16		RT								1				
104	VB-6	224+21		LT		1										
104	VB-7	224+33		LT		1										
105	VB-8	226+12		RT								1				
105	VB-9	228+43		RT								1				
106	VB-10	231+90		RT								1				
106	VB-11	232+19		LT		1										
106	VB-12	232+34		LT		1										
106	VB-13	232+41		LT		1										
TOTALS CARRIED TO GENERAL SUMMARY					3	6	3	3	3	2	2	7	7	56.3	3	3

CALCULATED PER
CHECKED MDE

WATER MAIN NOTES

CLA-CR315-1.28

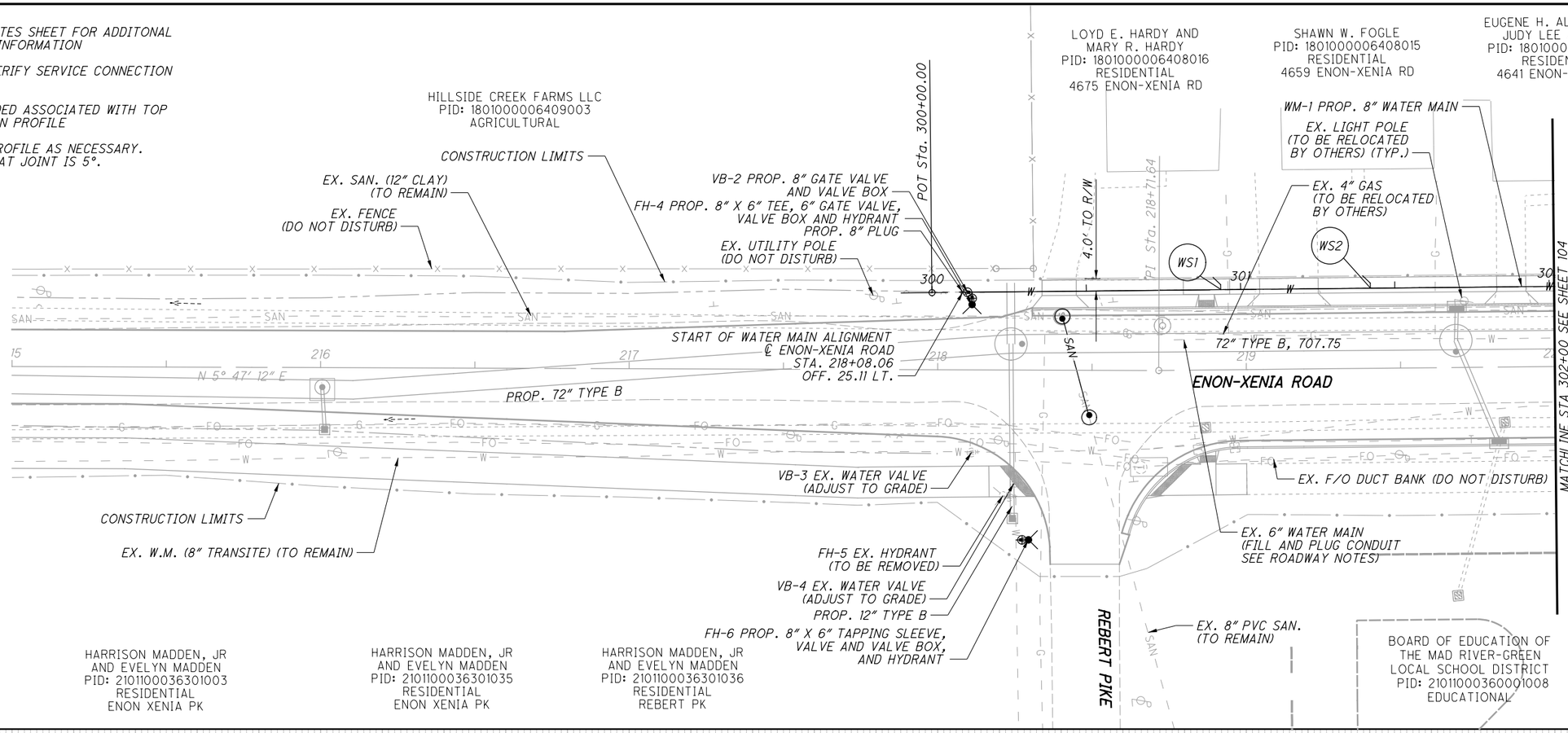
102
138

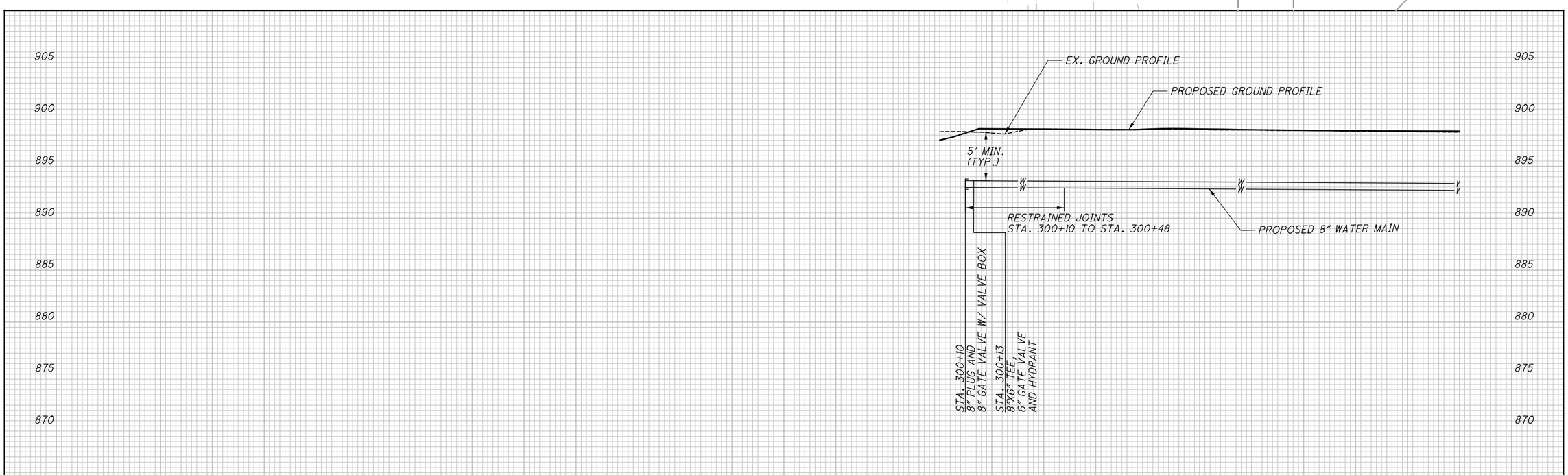
NOTES:
1. SEE WATER MAIN NOTES SHEET FOR ADDITONAL SERVICE CONNECTION INFORMATION

2. CONTRACTOR TO VERIFY SERVICE CONNECTION LOCATIONS

3. STATIONING PROVIDED ASSOCIATED WITH TOP OF PIPE IN WATER MAIN PROFILE

4. DEFLECT PIPE IN PROFILE AS NECESSARY. MAXIMUM DEFLECTION AT JOINT IS 5°.



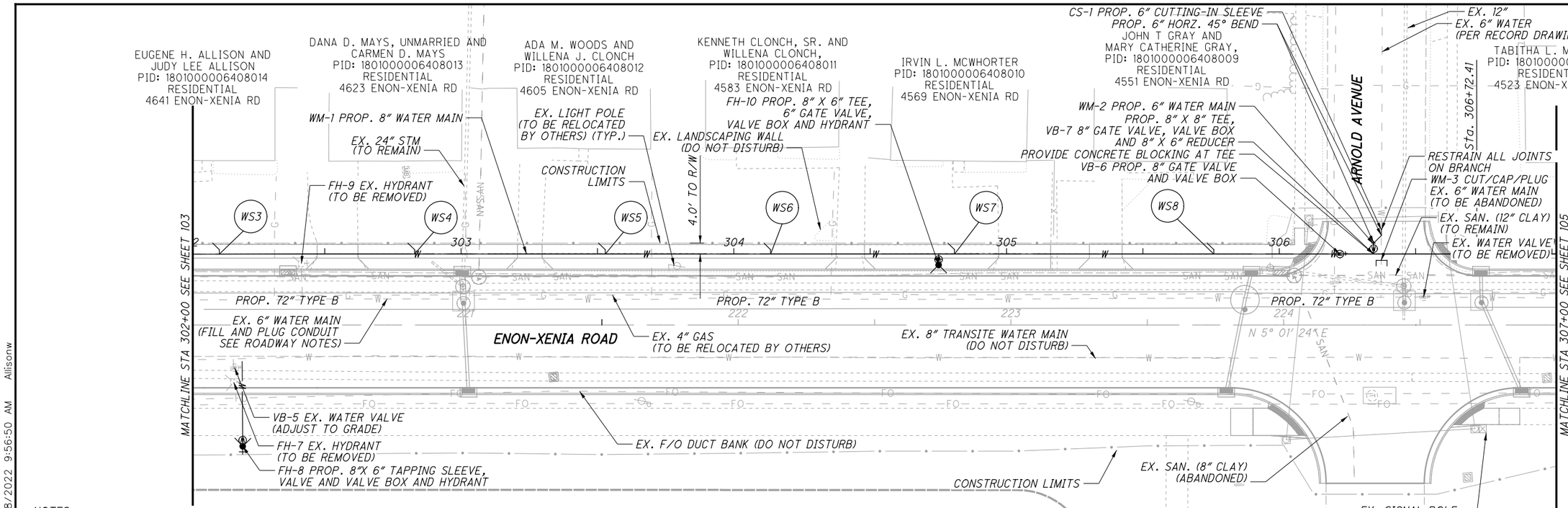


HORIZONTAL SCALE IN FEET
0 10 20 40
CALCULATED PER
CHECKED AWA

WATER MAIN PLAN AND PROFILE
STA 215+00 TO 220+00

CLA-CR315-1.28

103
138



NOTES:
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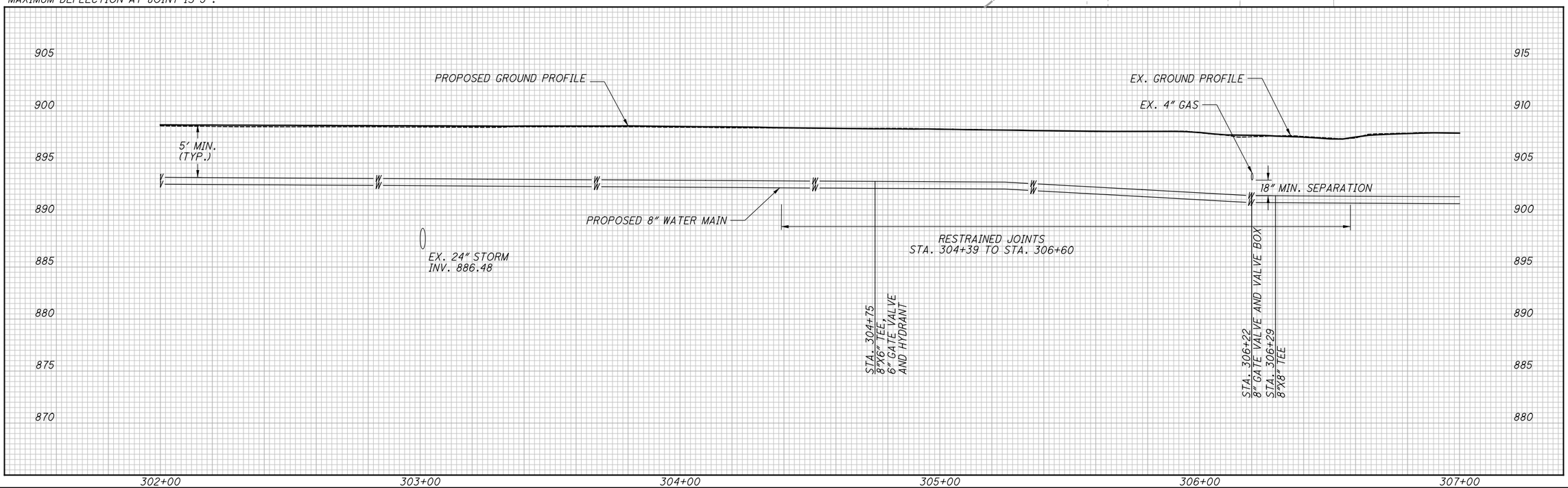


WATER WORK PLAN AND PROFILE
STA 220+00 TO 225+00

CLA-CR315-1.28

104
138

CALCULATED PER
CHECKED AWA

HORIZONTAL SCALE IN FEET
0 10 20 40

S:\CIN\4600--4699\4652\001\Drawings\CAD\09441\drainage\Water Main Replacement\09441 WM005.dgn Sheet 2/28/2022 9:56:50 AM Allisonw

TABITHA L. MCCARTY
PID: 18010000006401026
RESIDENTIAL
4523 ENON-XENIA RD

KEVIN S. I. SWEITZER AND
LESLIE K. SWEITZER,
PID: 18010000006401025
RESIDENTIAL
4507 ENON-XENIA RD

DANIEL J. PEREZ AND
KELYN ELISE MCCOY,
PID: 18010000006401024
RESIDENTIAL
4485 ENON-XENIA RD

KELLEN K. ROBINSON
PID: 18010000006401023
RESIDENTIAL
4473 ENON-XENIA RD

MARY K. TRISEL
PID: 18010000006401022
RESIDENTIAL
4461 ENON-XENIA RD

DONALD R. KING AND
DEBORAH L. KING,
PID: 18010000006401021
RESIDENTIAL
4441 ENON-XENIA RD

LEIGH ANNE ADAMS
PID: 18010000006401020
RESIDENTIAL
4423 ENON-XENIA RD

FH-13 EX. HYDRANT
(REMOVE AND DISPOSE OF)

EX. LIGHT POLE
(TO BE RELOCATED
BY OTHERS) (TYP.)

CONSTRUCTION LIMITS

EX. GAS VALVE
((TO BE RELOCATED
BY OTHERS) (TYP.)

WM-1 PROP. 8" WATER MAIN
FH-11 PROP. 8" X 6" TEE,
6" GATE VALVE, VALVE
BOX AND HYDRANT

EX. GAS MARKER
(TO REMAIN)

PI Sta. 229+31.86
Sta. 311+33.43

4.0' TO R/W

WS9 WS10 WS11 WS12 WS13 WS14 WS15

308 309 310 311

MATCHLINE STA 307+00 SEE SHEET 104

MATCHLINE STA 312+00 SEE SHEET 106

PROP. 60" TYPE B

PROP. 60" TYPE B

PROP. 60" TYPE B

226 227 228 229

4"

EX. 6" WATER MAIN
(FILL AND PLUG CONDUIT
SEE ROADWAY NOTES)

EX. GAS (TO BE
RELOCATED BY OTHERS)

EX. 6" H.P. PETROLEUM PIPELINE
(DO NOT DISTURB)

ENON-XENIA ROAD

EX. 8" TRANSITE WATER
(DO NOT DISTURB)

VB-9 EX. WATER VALVE
(ADJUST TO GRADE)

EX. HYDRANT
(TO BE RELOCATED
BY OTHERS PRIOR
TO CONSTRUCTION)

EX. 12" CPP

CONSTRUCTION LIMITS

EX. F/O DUCT BANK (DO NOT DISTURB)

VB-8 EX. WATER VALVE
(ADJUST TO GRADE)

FUTURE SCHOOL ENTRANCE
TO BE INSTALLED BY OTHERS
PRIOR TO CONSTRUCTION

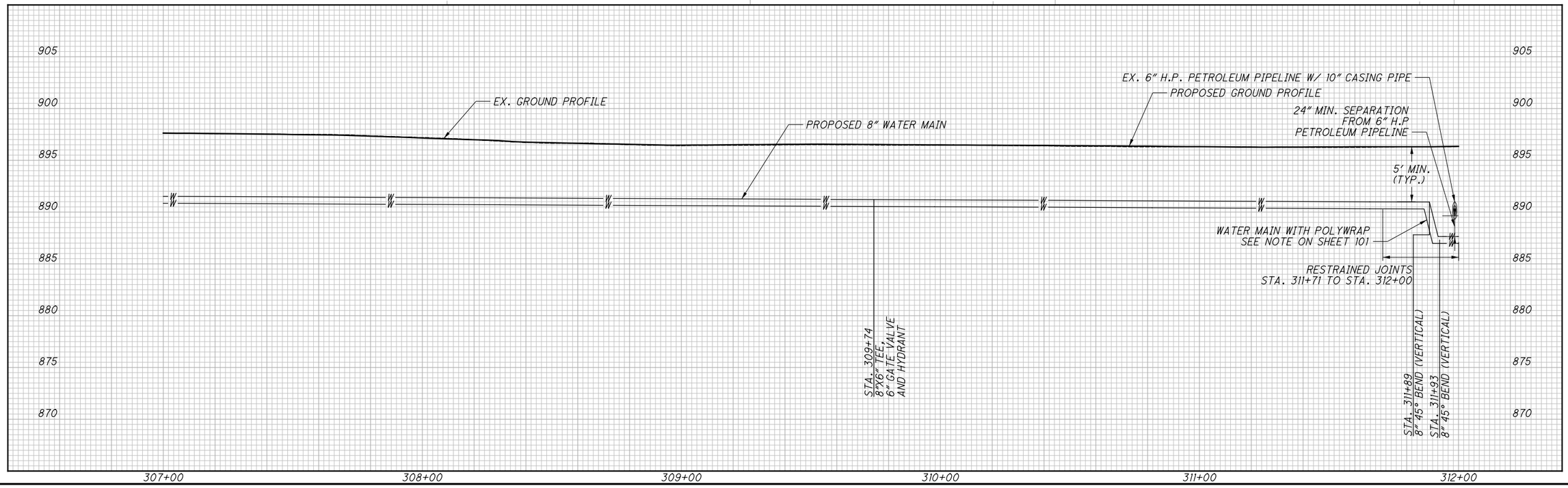
NOTES:
1. SEE WATER MAIN NOTES SHEET FOR ADDITONAL SERVICE CONNECTION INFORMATION

2. CONTRACTOR TO VERIFY SERVICE CONNECTION LOCATIONS

3. STATIONING PROVIDED ASSOCIATED WITH TOP OF PIPE IN WATER MAIN PROFILE

4. DEFLECT PIPE IN PROFILE AS NECESSARY. MAXIMUM DEFLECTION AT JOINT IS 5°.

BOARD OF EDUCATION OF
THE MAD RIVER-GREEN
LOCAL SCHOOL DISTRICT
PID: 21011000360001008
EDUCATIONAL



N

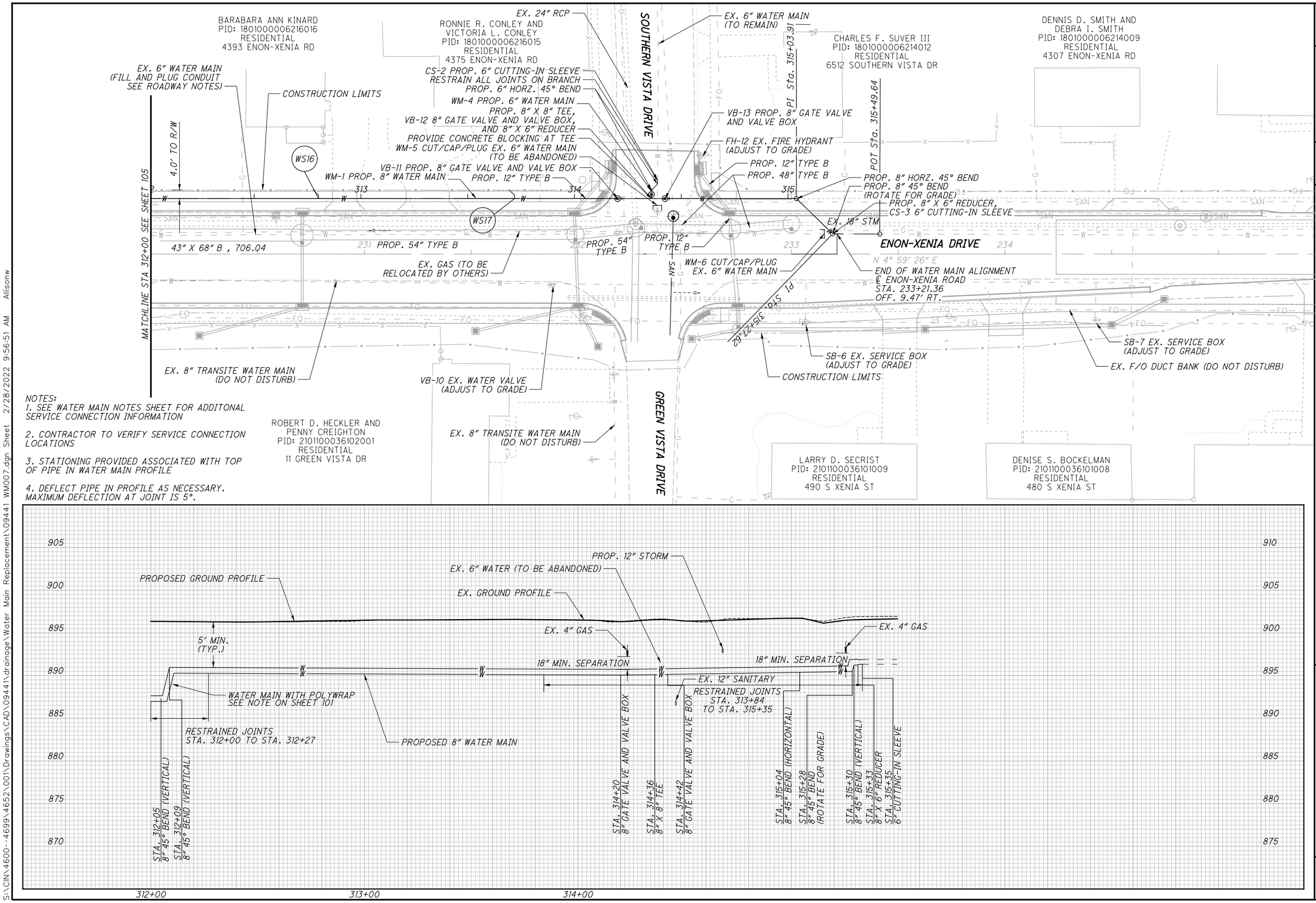
0 10 20 40
HORIZONTAL
SCALE IN FEET

CALCULATED PER
CHECKED AWA

WATER WORK PLAN AND PROFILE
STA 225+00 TO 230+00

CLA-CR315-1.28

105
138



NOTES:
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3. STATIONING PROVIDED ASSOCIATED WITH TOP OF PIPE IN WATER MAIN PROFILE

4. DEFLECT PIPE IN PROFILE AS NECESSARY. MAXIMUM DEFLECTION AT JOINT IS 5°.

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED PER
CHECKED AWA

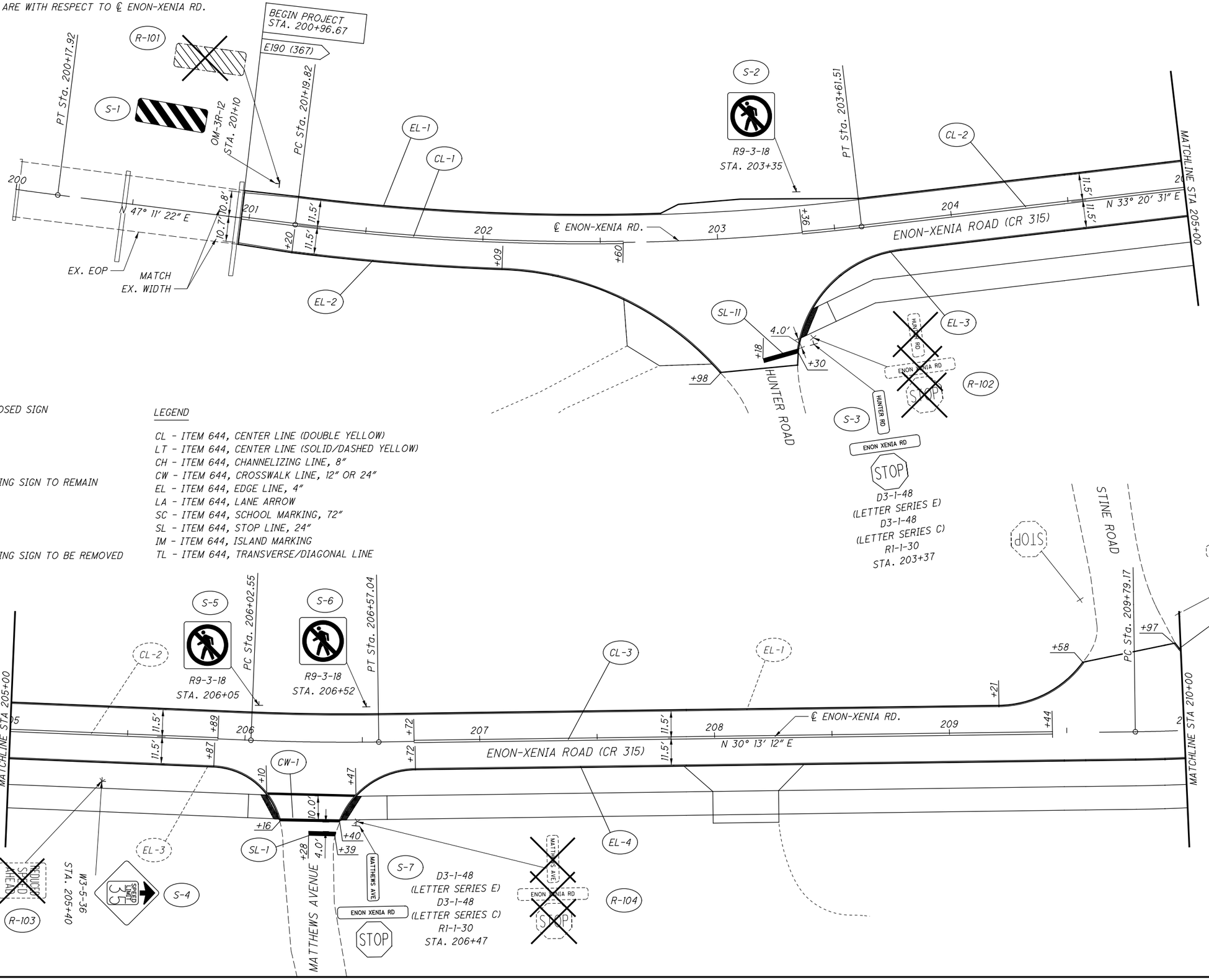
WATER WORK PLAN AND PROFILE
STA 230+00 TO 235+00

CLA-CR315-1.28

106
138

S:\CIN\4600-4699\4652\001\Drawings\CAD\09441\drainage\Water Main Replacement\09441 WM007.dgn Sheet 2/28/2022 9:56:51 AM Allisonw

NOTE: ALL STATIONS ARE WITH RESPECT TO ℄ ENON-XENIA RD.



PROPOSED SIGN

EXISTING SIGN TO REMAIN

EXISTING SIGN TO BE REMOVED

LEGEND

CL - ITEM 644, CENTER LINE (DOUBLE YELLOW)
LT - ITEM 644, CENTER LINE (SOLID/DASHED YELLOW)
CH - ITEM 644, CHANNELIZING LINE, 8"
CW - ITEM 644, CROSSWALK LINE, 12" OR 24"
EL - ITEM 644, EDGE LINE, 4"
LA - ITEM 644, LANE ARROW
SC - ITEM 644, SCHOOL MARKING, 72"
SL - ITEM 644, STOP LINE, 24"
IM - ITEM 644, ISLAND MARKING
TL - ITEM 644, TRANSVERSE/DIAGONAL LINE

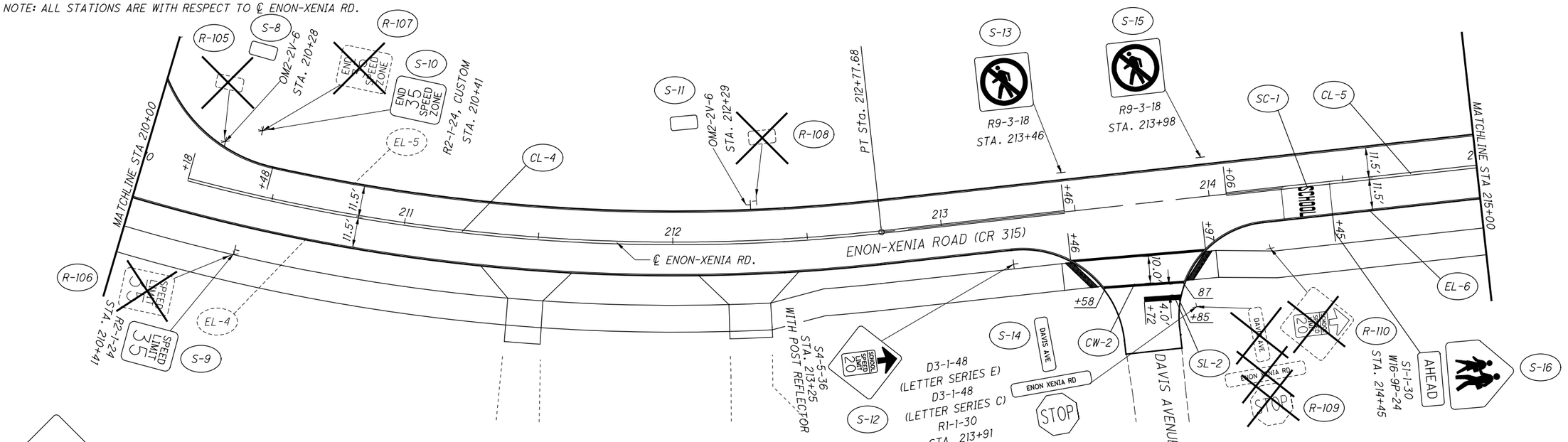
HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ATW
CHECKED JCH

SIGNING AND PAVEMENT MARKING PLAN

CLA-CR315-1.28

NOTE: ALL STATIONS ARE WITH RESPECT TO ℄ ENON-XENIA RD.



PROPOSED SIGN

EXISTING SIGN TO REMAIN

EXISTING SIGN TO BE REMOVED

LEGEND

CL - ITEM 644, CENTER LINE (DOUBLE YELLOW)
LT - ITEM 644, CENTER LINE (SOLID/DASHED YELLOW)
CH - ITEM 644, CHANNELIZING LINE, 8"
CW - ITEM 644, CROSSWALK LINE, 12" OR 24"
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SC - ITEM 644, SCHOOL MARKING, 72"
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IM - ITEM 644, ISLAND MARKING
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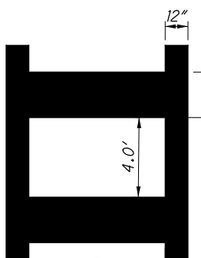


ENON-XENIA ROAD CROSSWALK DETAIL

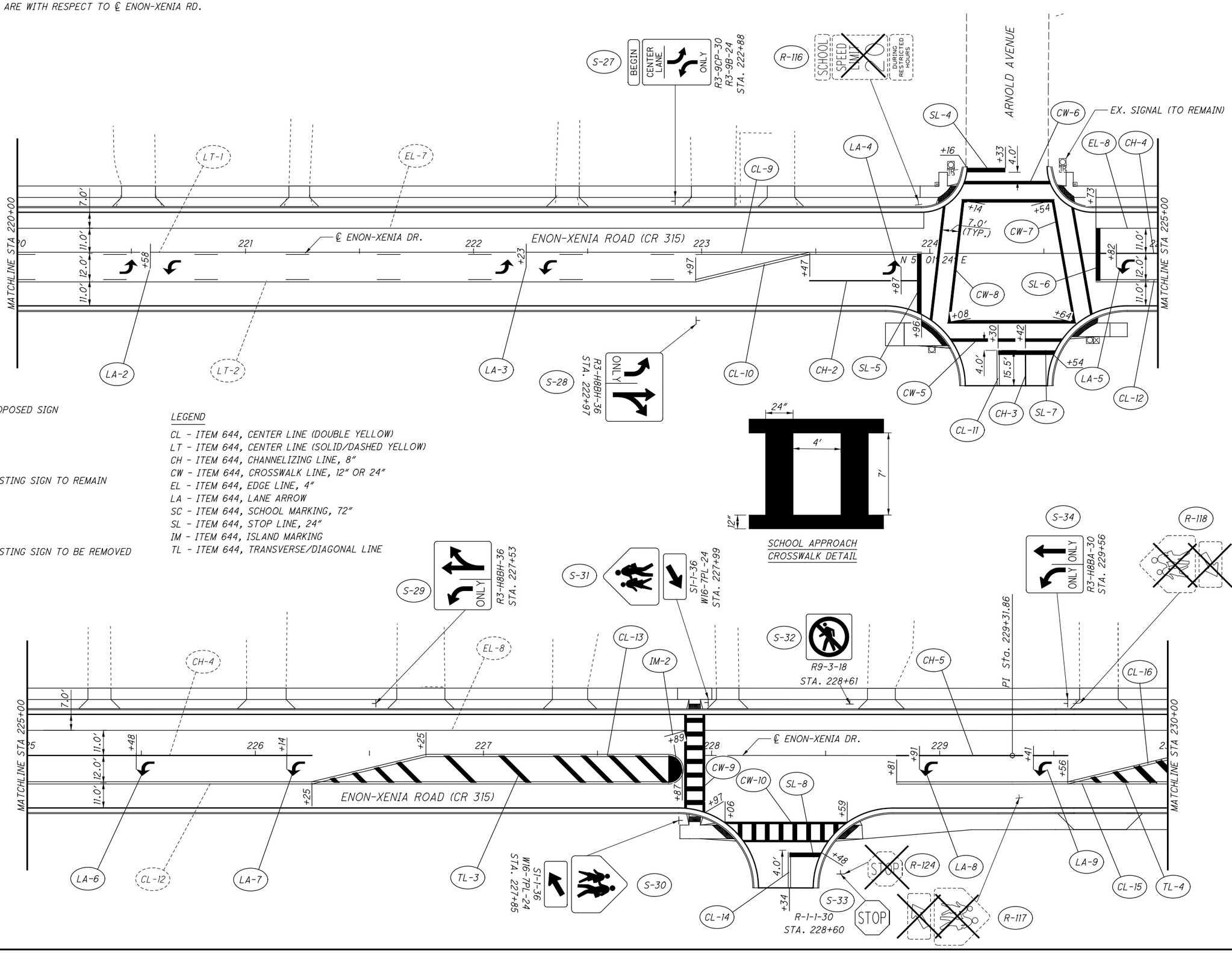
HORIZONTAL SCALE IN FEET (0, 10, 20, 40)

CALCULATED ATW
CHECKED JCH

SIGNING AND PAVEMENT MARKING

CLA-CR315-1.28

NOTE: ALL STATIONS ARE WITH RESPECT TO ℄ ENON-XENIA RD.



PROPOSED SIGN

EXISTING SIGN TO REMAIN

EXISTING SIGN TO BE REMOVED

LEGEND

CL - ITEM 644, CENTER LINE (DOUBLE YELLOW)
LT - ITEM 644, CENTER LINE (SOLID/DASHED YELLOW)
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TL - ITEM 644, TRANSVERSE/DIAGONAL LINE

HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED ATW
CHECKED JCH

SIGNING AND PAVEMENT MARKING PLAN

CLA-CR315-1.28

109
138

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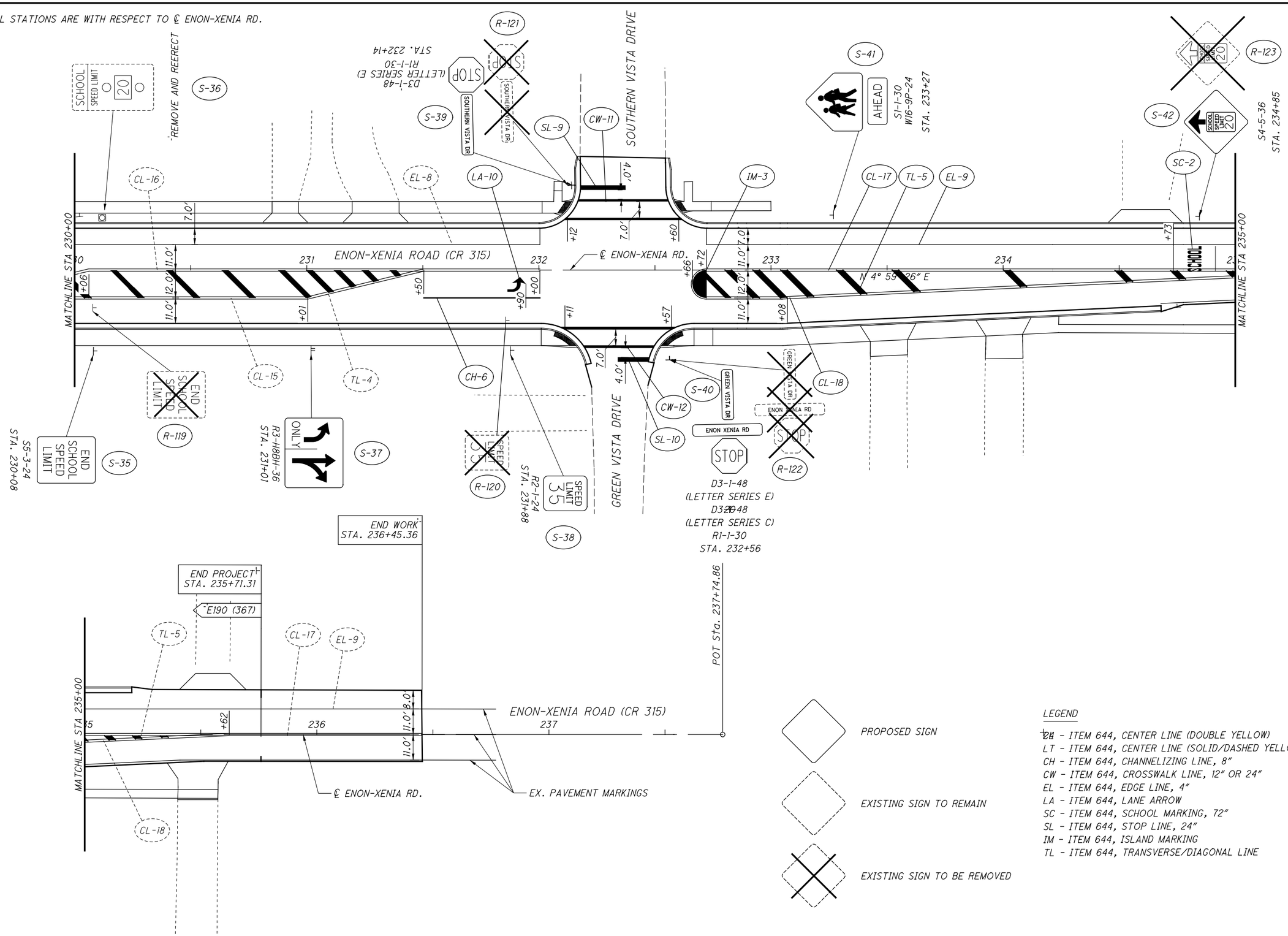
NOTE: ALL STATIONS ARE WITH RESPECT TO ℄ ENON-XENIA RD.



PROPOSED SIGN

EXISTING SIGN TO REMAIN

EXISTING SIGN TO BE REMOVED

LEGEND

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IM - ITEM 644, ISLAND MARKING
TL - ITEM 644, TRANSVERSE/DIAGONAL LINE

HORIZONTAL SCALE IN FEET

CALCULATED ATW
CHECKED JCH

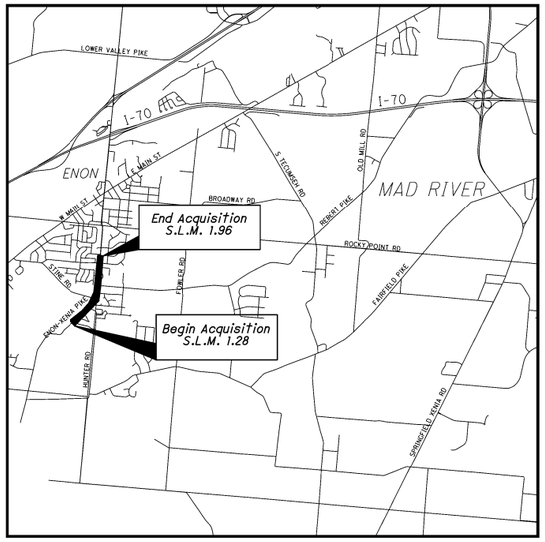
SIGNING AND PAVEMENT MARKING PLAN

CLA-CR315-1.28

110
138

RIGHT OF WAY LEGEND SHEET
CLA-CR315-1.28

CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 5 & 6 T. 3 E., R. 8 N.
SEC. 36 T. 4 E., R. 8 N.



LOCATION MAP

LATITUDE: 39°51'45" LONGITUDE: 83°56'15"

UTILITY OWNERS	
TYPE	NAME & ADDRESS
WATER	VILLAGE OF ENON JASON ROSE 363 EAST MAIN STREET ENON, OH 45323 (937)864-7870 JASON.ROSE@ENON-OH.GOV
ELECTRIC	OHIO EDISON NAT BENOY 420 YORK STREET SPRINGFIELD, OH 45505 (937)327-1272 NBENOY@FIRSTENERGYCORP.COM
GAS	COLUMBIA GAS ETHAN POPE 2101 WEST MAIN ST. SPRINGFIELD, OH 45504 (937)327-7120 EPOPE@NISOURCE.COM
GAS	MARATHON PIPELINE AUSTIN GUYER 10722 E. COUNTY ROAD 300 N INDIANAPOLIS, IN 46234 (317)871-7814 AGUYER@MARATHONPETROLEUM.COM
WATER & WASTEWATER	CLARK COUNTY UTILITIES TOM BLEIDORN. P.E. 3130 E. MAIN STREET P.O. BOX 1303 SPRINGFIELD, OH 45501-1303 (937)521-2158 TBLEIDORN@CLARKCOUNTYOHIO.GOV

NOTES: THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE OBTAINED FROM THE OWNER OF THE UTILITIES AS REQUIRED BY SECTION 153.64 O.R.C.

STRUCTURE KEY

- RESIDENTIAL
- COMMERCIAL
- OUT-BUILDING

CONVENTIONAL SYMBOLS

County Line
Township Line
Section Line
Corporation Line or
Fence Line (Ex) (Pr)
Center Line
Right of Way (Ex) Ex R/W
Right of Way (Pr) R/W
Standard Highway Ease.(Ex) Ex SH
Standard Highway Ease.(Pr) SH
Temporary Right of Way TMP
Channel Ease. (Pr) CH
Utility Ease. (Ex) Ex U
Railroad or
Guardrail (Ex) (Pr)
Construction Limits
Edge of Pavement (Ex)
Edge of Pavement (Pr)
Edge of Shoulder (Ex)
Edge of Shoulder (Pr)
Ditch / Creek (Ex)
Ditch / Creek (Pr)
Tree Line (Ex)
Ownership Hook Symbol , Example
Property Line Symbol , Example
Break Line Symbol , Example
Tree (Pr) , Tree (Ex) , Shrub (Ex)
Tree (Remove) , Shrub (Remove)
Evergreen (Ex) , Stump
Evergreen (Remove) , Stump (Remove)
Wetland (Pr) , Grass (Pr) , Aerial Target
Post (Ex) , Mailbox (Ex) , Mailbox (Pr)
Light (Ex) , Telephone Marker (Ex) TEL
Fire Hydrant (Ex) , Water Meter (Ex)
Water Valve (Ex) , Utility Valve Unknown (Ex.)
Telephone Pole (Ex) , Power Pole (Ex)
Light Pole (Ex)

INDEX OF SHEETS:

PROJECT DESCRIPTION

THIS PROJECT INCLUDES 3400-FT OF FULL-DEPTH PAVEMENT RECONSTRUCTION AND CONSTRUCTION OF A SHARED USE PATH. THE EXISTING STORM SEWER WILL BE REPLACED FOR THE LENGTH OF THE PROJECT. THIS PROJECT ALSO INCLUDES WATER MAIN REPLACEMENT AND SIDEWALK RECONSTRUCTION NORTH OF REBERT PIKE.

PLANS PREPARED BY:

FIRM NAME : SURVEY and MAPPING LLC. (SAM, LLC)
R/W DESIGNER: JAMES D. HEIDER
R/W REVIEWER: JEFFREY C. SPONTAK
FIELD REVIEWER: JAMES D. HEIDER
PRELIMINARY FIELD REVIEW DATE: 03/19/2021
TRACINGS FIELD REVIEW DATE:
OWNERSHIP UPDATED BY: JAMES D. HEIDER
DATE COMPLETED:
PLAN COMPLETION DATE:

LEGEND

WD = WARRANTY DEED
WDV = WARRANTY DEED, IN THE NAME OF THE VILLAGE OF ENON
SH = STANDARD HIGHWAY EASEMENT
SL = SLOPE EASEMENT
CH = CHANNEL EASEMENT
PR = PROPERTY RIGHT
T = TEMPORARY
SW = SEWER EASEMENT

I, Jeffrey C. Spontak, P. S. have conducted a survey of the existing conditions for Clark County Engineer on August, 2019. The results of that survey are contained herein. The horizontal coordinates expressed herein are based on the Ohio State Plane Coordinate System, South Zone on NAD 83 2011 datum. The Project Coordinates (US Survey feet) are relative to State Plane Coordinates (meters or US Survey feet) by a Project Adjustment Factor multiplier of 1.0000670852. As a part of this project I have reestablished the locations of the existing property lines for property takes contained herein. All of my work contained herein was conducted in accordance with Ohio Administrative Code 4733-37 commonly known as "A Minimum Standards for Boundary Surveys in the State of Ohio" unless noted. The words I and my as used herein are to mean either myself or someone working under my direct supervision.

_____
Jeffrey C. Spontak, Professional Land Surveyor No. 7856,

_____
Date:

SURVEYORS SEAL

FEDERAL PROJECT NO. E190 (367)
PID NO. 109441
CALCULATED JDH
CHECKED BJS
RIGHT OF WAY LEGEND SHEET
CLA-CR315-1.28
1 / 25
111 / 138

W:\2019\050176\100\Survey\02Base\09441RL001.dgn Design 7/8/2021 2:29:59 PM jheider

CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 5 & 6, T. 3 E, R. 8 N
SEC. 36, T. 4 E, R. 8 N
BETWEEN THE MIAMI RIVERS SURVEY

(C1)
P.I.Sta. 199+80.69
Δ = 4° 16′ 05″ (LT)
Dc = 5° 43′ 46″
R = 1,000.00′
T = 37.26′
L = 74.49′
E = 0.69′
C = 74.47′
C.B. = N 49° 19′ 25″ E

(C2)
P.I.Sta. 202+41.26
Δ = 13° 50′ 52″ (LT)
Dc = 5° 43′ 46″
R = 1,000.00′
T = 121.44′
L = 241.69′
E = 7.35′
C = 241.10′
C.B. = N 40° 15′ 57″ E

(C3)
P.I.Sta. 206+29.80
Δ = 3° 07′ 19″ (LT)
Dc = 5° 43′ 46″
R = 1,000.00′
T = 27.25′
L = 54.49′
E = 0.37′
C = 54.48′
C.B. = N 31° 46′ 51″ E

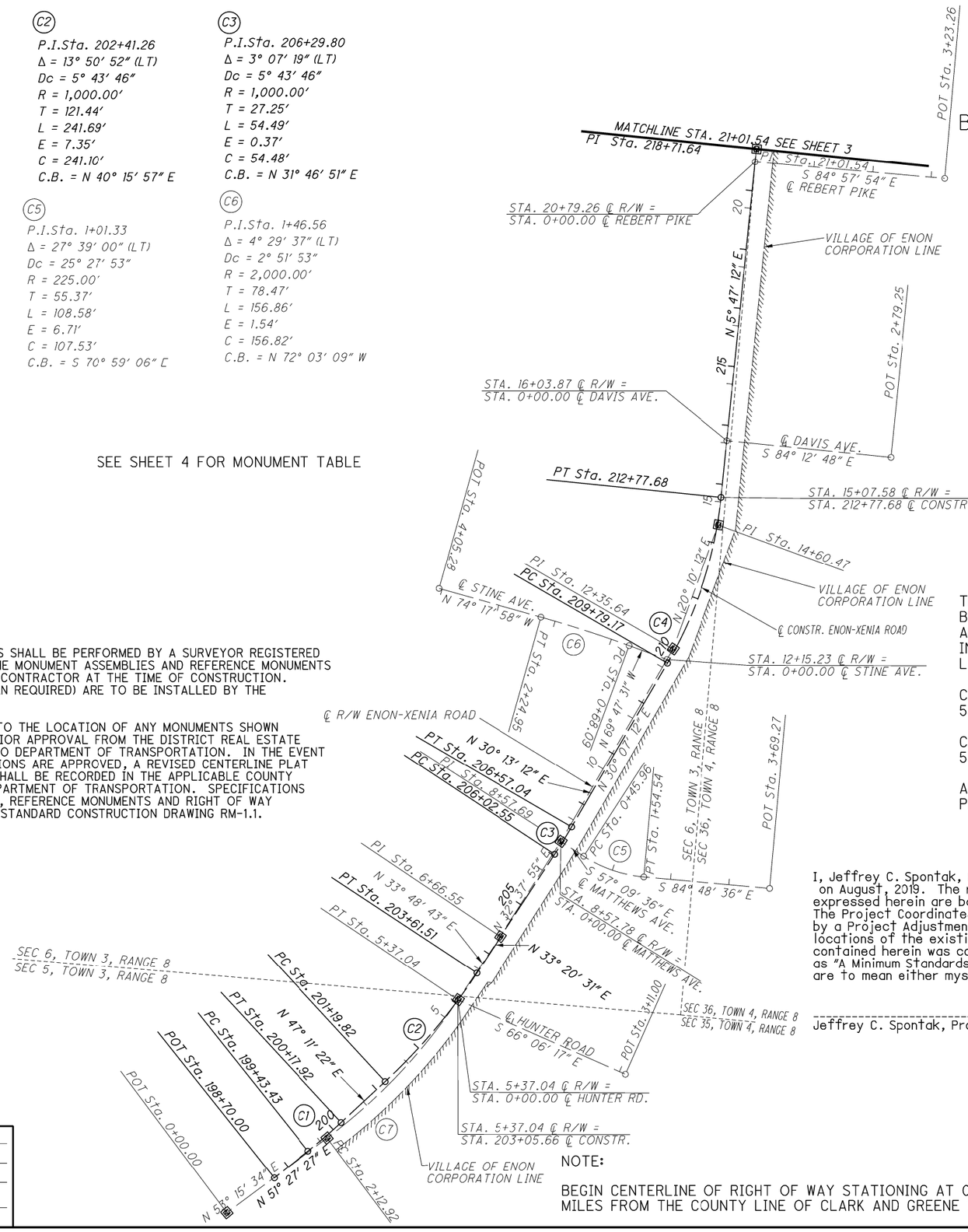
(C4)
P.I.Sta. 211+30.73
Δ = 24° 26′ 00″ (LT)
Dc = 8° 11′ 06″
R = 700.00′
T = 151.56′
L = 298.51′
E = 16.22′
C = 296.25′
C.B. = N 18° 00′ 12″ E

(C5)
P.I.Sta. 1+01.33
Δ = 27° 39′ 00″ (LT)
Dc = 25° 27′ 53″
R = 225.00′
T = 55.37′
L = 108.58′
E = 6.71′
C = 107.53′
C.B. = S 70° 59′ 06″ E

(C6)
P.I.Sta. 1+46.56
Δ = 4° 29′ 37″ (LT)
Dc = 2° 51′ 53″
R = 2,000.00′
T = 78.47′
L = 156.86′
E = 1.54′
C = 156.82′
C.B. = N 72° 03′ 09″ W

(C7)
P.I.Sta. 3+76.56
Δ = 19° 26′ 51″ (LT)
Dc = 6° 00′ 00″
R = 954.93′
T = 163.64′
L = 324.12′
E = 13.92′
C = 322.57′
C.B. = N 43° 32′ 09″ E

SEE SHEET 4 FOR MONUMENT TABLE



MONUMENT LEGEND

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- RAILROAD SPIKE FOUND
- RAILROAD SPIKE SET
- I.P.F. IRON PIN FOUND
- I.P.F. IRON PIN FOUND W/ ID CAP
- I.P.S. IRON PIN SET W/ ID CAP
- P.F. IRON PIPE FOUND
- P.S. IRON PIPE SET
- P.K.F. P.K. NAIL FOUND
- P.K.S. P.K. NAIL SET

BASIS FOR BEARINGS:

THE BEARINGS REFERRED TO HEREIN ARE GRID SOUTH OF OHIO STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83 (2011) DATUM FROM GPS OBSERVATIONS OF THE ODOT VRS SYSTEM AND ARE FOR DEFINING ANGULAR MEASUREMENTS ONLY.

SURVEY DATUM:

UNITS ARE US SURVEY FEET (SFT).

HORIZONTAL DATUM IS BASED UPON THE OHIO STATE PLANE COORDINATE SYSTEM SOUTH ZONE (3402), NAD83 (2011) ADJUSTMENT, UTILIZING GLOBAL POSITIONING OBSERVATIONS COLLECTED ON SITE WITH CORRECTIONS FROM ODOT VIRTUAL REFERENCE STATIONS (VRS). OHIO STATE PLANE COORDINATES (OSPC) WERE CONVERTED TO GROUND COORDINATES BY MULTIPLICATION OF 1.0000670852 (1/ COMBINED SCALE FACTOR). VERTICAL DATUM IS BASED UPON NAVD88, ELLIPSOID GRS80, GEOID 12A, UTILIZING GLOBAL POSITIONING OBSERVATIONS COLLECTED ON SITE WITH CORRECTIONS FROM ODOT VRS.

BASIS OF EXISTING C/L OF R/W AND R/W WIDTH:

THE EXISTING CENTERLINE OF CR 315 (ENON-XENIA ROAD) WAS ESTABLISHED BY THE EXISTING R/W LINES, AS DETERMINED FROM PROPERTY MONUMENTATION AND RECORD DOCUMENTS. THE R/W WIDTH OF CR 315 (ENON-XENIA ROAD) IS VARIABLE IN WIDTH, RANGING FROM 50 FEET TO 55 FEET TO 60 FEET DEPENDING UPON LOCATION.

CLARK COUNTY COMMISSION JOURNAL BOOK 8, PAGES 194-195, APRIL 22, 1937
50′ WIDTH FROM HUNTER ROAD TO REBERT PIKE.

CLARK COUNTY COMMISSION JOURNAL BOOK 23, PAGES 216-219, JANUARY 23, 1958
50′ WIDTH - CURVE RELOCATION SOUTH OF HUNTER.

ANNEXATION FROM MAD RIVER TWP TO VILLAGE OF ENON
PB 10 PAGE 96 & PB 12, PG 1

SETTING OF ALL MONUMENTS SHALL BE PERFORMED BY A SURVEYOR REGISTERED IN THE STATE OF OHIO. THE MONUMENT ASSEMBLIES AND REFERENCE MONUMENTS WILL BE INSTALLED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. THE IRON PIN AND CAP (WHEN REQUIRED) ARE TO BE INSTALLED BY THE CONTRACTOR'S SURVEYOR.

CHANGES OR ALTERATIONS TO THE LOCATION OF ANY MONUMENTS SHOWN IN THIS TABLE, REQUIRE PRIOR APPROVAL FROM THE DISTRICT REAL ESTATE ADMINISTRATOR OF THE OHIO DEPARTMENT OF TRANSPORTATION. IN THE EVENT THAT CHANGES OR ALTERATIONS ARE APPROVED, A REVISED CENTERLINE PLAT WITH THE NEW LOCATIONS SHALL BE RECORDED IN THE APPLICABLE COUNTY RECORDS AND THE OHIO DEPARTMENT OF TRANSPORTATION. SPECIFICATIONS FOR MONUMENT ASSEMBLIES, REFERENCE MONUMENTS AND RIGHT OF WAY MONUMENTS ARE SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1.

I, Jeffrey C. Spontak, P. S. have conducted a survey of the existing corditions for Clark County Engineer on August, 2019. The results of that survey are contained herein. The horizontal coordinates expressed herein are based on the Ohio State Plane Coordinate System, South Zone on NAD 83 2011 datum. The Project Coordinates (US Survey feet) are relative to State Plane Coordinates (meters or US Survey feet) by a Project Adjustment Factor multiplier of 1.0000670852. As a part of this project I have reestablished the locations of the existing property lines for property takes contained herein. All of my work contained herein was conducted in accordance with Ohio Administrative Code 4733-37 commonly known as "A Minimum Standards for Boundary Surveys in the State of Ohio" unless noted. The words I and my as used herein are to mean either myself or someone working under my direct supervision.

_____
Jeffrey C. Spontak, Professional Land Surveyor No. 7856,

_____
Date:

NOTE:

BEGIN CENTERLINE OF RIGHT OF WAY STATIONING AT 0+00 WHICH IS 1.28 MILES FROM THE COUNTY LINE OF CLARK AND GREENE COUNTY

RECEIVED _____, 20__
RECORDED _____, 20__
BOOK _____ PAGE _____
_____
COUNTY RECORDER

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 04/03/19

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 109441

R/W DESIGNER JDH
R/W REVIEWER BJS

CENTERLINE PLAT

CLA-CR315-1.28

2 / 25

112 / 138

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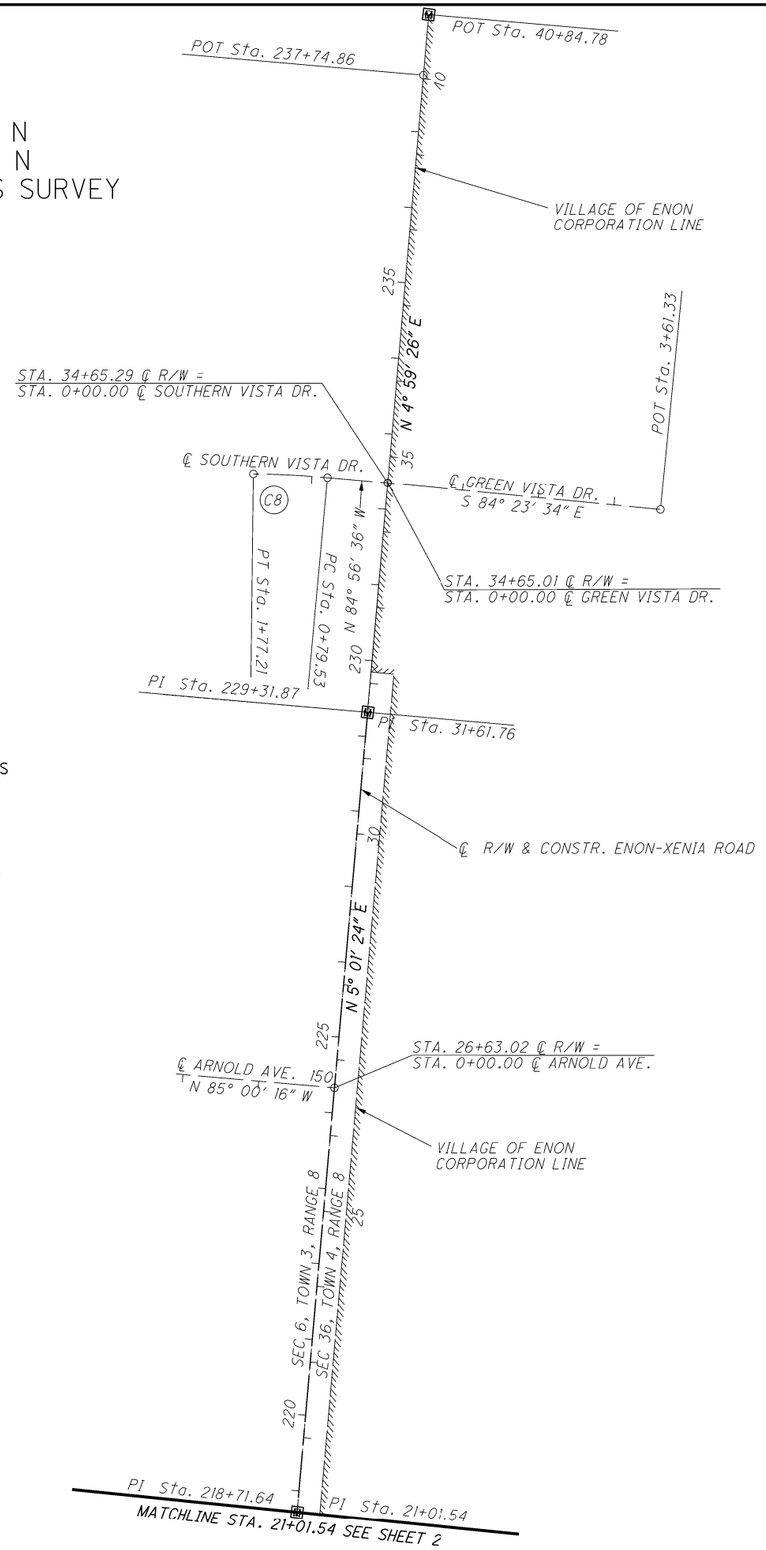
CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 6, T. 3 E, R. 8 N
SEC. 36, T. 4 E, R. 8 N
BETWEEN THE MIAMI RIVERS SURVEY



C8

P.I.Sta. 1+28.40
Δ = 4° 35' 19" (LT)
Dc = 4° 41' 51"
R = 1,219.68'
T = 48.87'
L = 97.68'
E = 0.98'
C = 97.66'
C.B. - N 87° 01' 37" W

MONUMENT LEGEND

- EXISTING R/W MONUMENT BOX
- PROPOSED R/W MONUMENT BOX
- EXISTING CONCRETE MONUMENT
- PROPOSED CONCRETE MONUMENT
- RAILROAD SPIKE FOUND
- RAILROAD SPIKE SET
- I.P.F. IRON PIN FOUND
- I.P.F. IRON PIN FOUND W/ ID CAP
- I.P.S. IRON PIN SET W/ ID CAP
- P.F. IRON PIPE FOUND
- P.S. IRON PIPE SET
- P.K.F. P.K. NAIL FOUND
- P.K.S. P.K. NAIL SET

SEE SHEET 4 FOR MONUMENT TABLE

SETTING OF ALL MONUMENTS SHALL BE PERFORMED BY A SURVEYOR REGISTERED IN THE STATE OF OHIO. THE MONUMENT ASSEMBLIES AND REFERENCE MONUMENTS WILL BE INSTALLED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. THE IRON PIN AND CAP (WHEN REQUIRED) ARE TO BE INSTALLED BY THE CONTRACTOR'S SURVEYOR.

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RECEIVED _____, 20____
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BOOK _____ PAGE _____
_____
COUNTY RECORDER

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 04/03/19

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 109441

R/W DESIGNER JDH
R/W REVIEWER BJS

CENTERLINE PLAT

CLA-CR315-1.28

3/25

113/138

PROPOSED MONUMENT TABLE

℄ of Right of Way Enon-Xenia Road		PROJECT COORDINATES (GROUND) SEE SURVEY CERTIFICATION		MONUMENTS TO BE SET		R/W MON. EXPECTED TO BE DISTURBED	
STATION	OFFSET	NORTH (Y)	EAST (X)	MON. ASSY.	REF. MON.	R/W MON.	DESCRIPTION
1+06.00	0.00′	679908.733	1564036.975	1		1	MAG SPIKE
2+63.48	58.53′ LT	680048.454	1564124.201	1		1	REBAR W/ CAP
2+80.99	33.00′ RT	679989.821	1564196.573	1		1	REBAR W/ CAP
3+02.97	0.00′	680029.352	1564191.466	1		1	MAG SPIKE
3+19.00	75.00′ LT	680094.967	1564152.012	1		1	REBAR W/ CAP
3+60.00	60.00′ LT	680110.866	1564189.744	1		1	REBAR W/ CAP
4+70.00	43.00′ LT	680178.038	1564270.947	1		1	REBAR W/ CAP
4+75.00	33.00′ RT	680135.515	1564334.133	1		1	REBAR W/ CAP
5+03.00	65.00′ RT	680139.997	1564377.378	1		1	REBAR W/ CAP
5+47.00	56.94′ RT	680182.597	1564396.992	1		1	MAG SPIKE
5+48.29	64.31′ RT	680179.569	1564403.825	1		1	MAG SPIKE
5+72.91	60.00′ RT	680202.427	1564413.952	1		1	REBAR W/ CAP
5+76.42	0.00′	680238.7314	1564366.053	1		1	MAG SPIKE
5+93.03	31.52′ RT	680234.993	1564401.486	1		1	REBAR W/ CAP
5+96.57	38.23′ RT	680234.196	1564409.033	1		1	REBAR W/ CAP
5+99.00	36.00′ RT	680237.457	1564408.528	1		1	REBAR W/ CAP
6+45.80	40.00′ LT	680318.630	1564371.422	1		1	REBAR W/ CAP
6+50.52	25.00′ LT	680314.211	1564386.517	1		1	REBAR W/ CAP
6+58.41	0.00′	680306.848	1564411.674	1		1	MAG SPIKE
6+63.06	14.77′ RT	680302.497	1564426.537	1		1	REBAR W/ CAP
6+66.29	25.00′ LT	680327.309	1564395.288	1		1	REBAR W/ CAP
7+56.14	0.00′	680389.059	1564464.514	1		1	MAG SPIKE
8+32.64	39.00′ RT	680432.457	1564538.612	1		1	REBAR W/ CAP
8+32.67	30.00′ RT	680437.338	1564531.050	1		1	REBAR W/ CAP
8+57.14	25.00′ LT	680487.602	1564497.926	1		1	REBAR W/ CAP
8+80.98	37.00′ RT	680476.165	1564562.969	1		1	REBAR W/ CAP
8+81.38	30.00′ RT	680479.938	1564557.066	1		1	REBAR W/ CAP
10+35.00	39.00′ RT	680608.382	1564641.987	1		1	REBAR W/ CAP
11+80.41	25.00′ LT	680766.272	1564659.595	1		1	REBAR W/ CAP
11+90.00	38.00′ RT	680742.846	1564719.091	1		1	REBAR W/ CAP
11+90.00	43.00′ RT	680740.446	1564723.228	1		1	REBAR W/ CAP
12+04.00	38.00′ RT	680754.992	1564726.055	1		1	REBAR W/ CAP
12+04.00	43.00′ RT	680752.556	1564730.253	1		1	REBAR W/ CAP
12+30.42	0.00′	680796.984	1564706.316	1		1	MAG SPIKE
12+33.00	38.00′ RT	680788.710	1564736.199	1		1	REBAR W/ CAP
12+35.64	30.00′ RT	680780.151	1564740.482	1		1	REBAR W/ CAP
12+38.00	30.00′ RT	680793.372	1564737.911	1		1	REBAR W/ CAP
12+45.55	25.00′ LT	680819.425	1564688.888	1		1	REBAR W/ CAP
12+86.00	25.00′ LT	680857.393	1564702.835	1		1	REBAR W/ CAP
13+00.00	45.00′ RT	680846.398	1564773.369	1		1	REBAR W/ CAP

PROPOSED MONUMENT TABLE

℄ of Right of Way Enon-Xenia Road		PROJECT COORDINATES (GROUND) SEE SURVEY CERTIFICATION		MONUMENTS TO BE SET		R/W MON. EXPECTED TO BE DISTURBED	
STATION	OFFSET	NORTH (Y)	EAST (X)	MON. ASSY.	REF. MON.	R/W MON.	DESCRIPTION
13+64.25	30.00′ RT	680911.883	1564781.444	1		1	REBAR W/ CAP
13+66.21	44.40′ RT	680908.756	1564795.638	1		1	REBAR W/ CAP
13+82.32	30.00′ RT	680928.845	1564787.675	1		1	REBAR W/ CAP
14+20.00	25.00′ LT	680983.175	1564749.039	1		1	REBAR W/ CAP
14+60.47	30.00′ RT	681005.750	1564815.925	1		1	REBAR W/ CAP
14+78.87	30.00′ RT	681027.827	1564818.162	1		1	REBAR W/ CAP
14+78.87	33.71′ RT	681027.453	1564821.854	1		1	REBAR W/ CAP
15+21.00	34.00′ RT	681069.337	1564826.389	1		1	REBAR W/ CAP
15+50.00	29.00′ LT	681104.542	1564766.634	1		1	REBAR W/ CAP
15+59.82	34.67′ RT	681107.891	1564830.970	1		1	REBAR W/ CAP
15+78.87	30.00′ RT	681127.318	1564828.244	1		1	REBAR W/ CAP
16+28.87	30.00′ RT	681177.062	1564833.286	1		1	REBAR W/ CAP
16+28.87	33.00′ RT	681176.760	1564836.270	1		1	REBAR W/ CAP
16+84.00	35.00′ RT	681231.406	1564833.818	1		1	REBAR W/ CAP
17+28.87	30.00′ RT	681276.553	1564843.368	1		1	REBAR W/ CAP
17+28.87	35.00′ RT	681276.049	1564843.343	1		1	REBAR W/ CAP
17+70.29	34.00′ RT	681317.3536	1564851.523	1		1	REBAR W/ CAP
18+00.00	31.00′ LT	681353.469	1564789.851	1		1	REBAR W/ CAP
18+33.26	30.00′ RT	681380.411	1564853.893	1		1	REBAR W/ CAP
18+33.26	37.00′ RT	681379.706	1564860.857	1		1	REBAR W/ CAP
18+99.26	30.00′ RT	681446.075	1564860.547	1		1	REBAR W/ CAP
18+99.26	39.00′ RT	681445.167	1564869.502	1		1	REBAR W/ CAP
20+25.00	44.00′ RT	681569.761	1564887.154	1		1	REBAR W/ CAP
20+49.65	30.00′ RT	681595.700	1564875.711	1		1	REBAR W/ CAP
20+50.09	63.00′ RT	681592.804	1564908.589	1		1	REBAR W/ CAP
20+62.29	32.00′ LT	681614.495	1564815.296	1		1	REBAR W/ CAP
20+62.59	0.52′ RT	681611.543	1564847.684	1		1	MAG SPIKE
20+79.26	0.00′	681628.183	1564848.849	1		1	MAG SPIKE
20+99.66	30.03′ RT	681645.447	1564880.780	1		1	REBAR W/ CAP
20+99.66	53.00′ RT	681643.431	1564903.665	1		1	REBAR W/ CAP
26+63.02	0.00′	682207.246	1564900.046	1		1	MAG SPIKE
27+00.00	46.00′ RT	682242.481	1564949.321	1		1	REBAR W/ CAP
27+00.00	53.00′ RT	682241.868	1564956.294	1		1	REBAR W/ CAP
32+14.51	46.00′ RT	682755.040	1564994.344	1		1	REBAR W/ CAP
32+14.65	32.50′ RT	682756.357	1564980.908	1		1	REBAR W/ CAP
32+14.68	30.00′ RT	682756.600	1564978.419	1		1	REBAR W/ CAP
34+14.47	30.00′ RT	682955.639	1564995.800	1		1	REBAR W/ CAP
34+24.15	32.50′ RT	682965.070	1564999.133	1		1	REBAR W/ CAP
34+65.01	0.00′	683008.598	1564970.310	1		1	MAG SPIKE
34+65.29	0.00′	683008.870	1564970.334	1		1	MAG SPIKE
34+96.15	42.00′ RT	683035.961	1565014.859	1		1	REBAR W/ CAP
35+14.48	30.00′ RT	683055.266	1565004.499	1		1	REBAR W/ CAP
36+04.38	40.00′ RT	683143.958	1565022.282	1		1	REBAR W/ CAP
36+04.48	30.00′ RT	683144.925	1565012.328	1		1	REBAR W/ CAP
37+04.38	40.00′ RT	683243.579	1565030.981	1		1	REBAR W/ CAP
37+04.48	30.00′ RT	683244.548	1565021.028	1		1	REBAR W/ CAP
TOTAL CARRIED TO GENERAL SUMMARY SHEET				86		86	

MONUMENT TABLE

℄ of Right of Way Enon-Xenia Road		PROJECT COORDINATES (GROUND) SEE SURVEY CERTIFICATION		MONUMENTS TO BE SET DURING CONSTRUCTION		
STATION	OFFSET	NORTH (Y)	EAST (X)	MON. ASSY.	REF. MON.	DESCRIPTION
0+00.00	℄	679844.7998	1563951.3274	1		MONUMENT ASSEMBLY
2+12.92	℄	679972.1670	1564121.9513	1		MONUMENT ASSEMBLY
5+37.04	℄	680206.2728	1564344.6932	1		MONUMENT ASSEMBLY
6+66.55	℄	680313.8710	1564416.7565	1		MONUMENT ASSEMBLY
8+57.69	℄	680474.8424	1564519.8289	1		MONUMENT ASSEMBLY
12+35.64	℄	680801.7654	1564709.4919	1		MONUMENT ASSEMBLY
14+60.47	℄	681013.0060	1564786.8559	1		MONUMENT ASSEMBLY
21+01.54	℄	681650.3486	1564851.0949	1		MONUMENT ASSEMBLY
31+61.76	℄	682706.4993	1564943.9304	1		MONUMENT ASSEMBLY
40+84.78	℄	683626.0184	1565024.2238	1		MONUMENT ASSEMBLY
TOTAL CARRIED TO GENERAL SUMMARY SHEET				10		

EXISTING MONUMENT TABLE - ENON-XENIA ROAD

℄ of R/W & CONSTR. Enon-Xenia Road		PROJECT COORDINATES (GROUND) SEE SURVEY CERTIFICATION		
STATION	OFFSET	NORTH (Y)	EAST (X)	DESCRIPTION
20+62.19	29.61 LT	681614.219	1564817.497	IRON PIN
20+62.21	29.78 LT	681614.187	1564817.665	IRON PIN
21+31.65	30.11 LT	681682.975	1564823.740	IRON PIPE
22+00.66	30.16 LT	681751.725	1564829.725	IRON PIPE
22+69.61	29.94 LT	681820.392	1564835.977	IRON PIPE
23+38.61	30.21 LT	681889.150	1564841.757	IRON PIPE
24+07.61	29.96 LT	681957.870	1564848.044	IRON PIPE
24+76.61	29.95 LT	682026.595	1564854.100	IRON PIPE
25+45.72	29.98 LT	682095.595	1564860.122	IRON PIPE
27+75.15	30.03 LT	682324.002	1564880.164	IRON PIPE
28+44.27	30.00 LT	682392.850	1564886.241	IRON PIPE
29+13.41	30.13 LT	682461.738	1564892.168	IRON PIPE
29+82.36	30.04 LT	682530.412	1564898.296	IRON PIN FOUND
31+22.39	29.99 LT	682669.906	1564910.607	IRON PIN FOUND
32+26.37	29.98 LT	682773.471	1564919.685	IRON PIPE
36+26.42	30.06 LT	683172.009	1564954.409	IRON PIPE
37+11.60	30.17 LT	683256.877	1564961.709	IRON PIPE
37+96.56	30.24 LT	683341.518	1564969.025	IRON PIPE
38+81.50	30.13 LT	683426.125	1564976.520	IRON PIPE

EXISTING MONUMENT TABLE - STINE ROAD

℄ of R/W & CONSTR. STINE Road		PROJECT COORDINATES (GROUND) SEE SURVEY CERTIFICATION		
STATION	OFFSET	NORTH (Y)	EAST (X)	DESCRIPTION
120+72.90	28.57 LT	680781.036	1564625.114	COUNTY MON. (ALUMINUM CAP IN CONCRETE)
120+71.73	27.62 RT	680833.787	1564644.530	COUNTY MON. (ALUMINUM CAP IN CONCRETE)
122+29.42	28.37 RT	680882.678	1564493.196	COUNTY MON. (ALUMINUM CAP IN CONCRETE)
122+28.99	27.69 LT	680828.703	1564478.020	COUNTY MON. (ALUMINUM CAP IN CONCRETE)

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BOOK _____ PAGE _____

COUNTY RECORDER

CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 5 & 6, T. 3 E, R. 8 N
SEC. 36, T. 4 E, R. 8 N
BETWEEN THE MIAMI RIVERS SURVEY

HORIZONTAL SCALE IN FEET
0 50 100 200

PID NO. 109441

R/W DESIGNER JDH
R/W REVIEWER BJS

CENTERLINE PLAT

CLA-CR315-1.28

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 04/03/19

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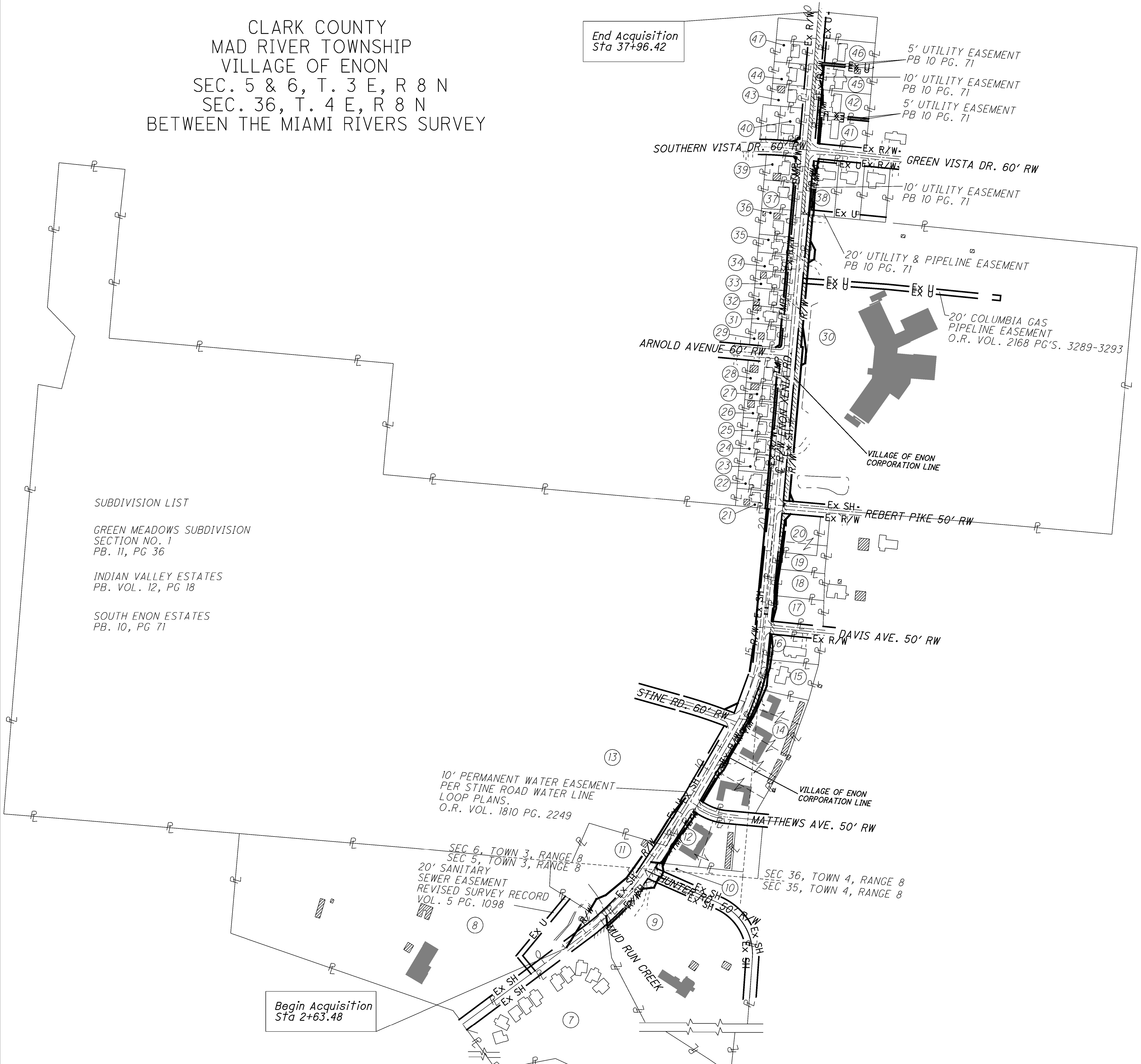
CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 5 & 6, T. 3 E, R 8 N
SEC. 36, T. 4 E, R 8 N
BETWEEN THE MIAMI RIVERS SURVEY



(7)	SPRING LAKE CONDOMINIUM 2101000005800027
(8)	GEORGE ROGERS CIARK MEMORIAL NO. 8437, VETERANS WARS OF THE UNITED STATES 1801000005000089
(9)	JASON NEIL AUGENSTEIN 2101000005000128
(10)	ARROW INVESTMENTS OF ENON, LTD., 2101000005000013
(11)	MAD RIVER TOWNSHIP 1801000005000 1003
(12)	DAVID G. WELCH 2101100036303028
(13)	HILLSIDE CREEK FARMS LLC, AN ARIZONA LIMITED LIABILITY COMPANY 1801000006409003
(14)	DAVID G. WELCH 2101100036302020
(15)	JONAH HENSLEY, JR. 2101100036302002
(16)	CHRISTA J. BRAUN 2101100036302001
(17)	HARRISON MADDEN, JR. AND EVELYN MADDEN 2101100036301004
(18)	HARRISON MADDEN, JR. AND EVELYN MADDEN 2101100036301003
(19)	HARRISON MADDEN, JR. AND EVELYN MADDEN 2101100036301035
(20)	HARRISON MADDEN, JR. AND EVELYN MADDEN 2101100036301036
(21)	LOYD E. HARDY AND MARY R. HARDY 1801000006408016
(22)	SHAWN W. FOGLE 1801000006408015
(23)	EUGENE H. ALLISON AND JUDY LEE ALLISON 1801000006408014
(24)	DANA D. MAYS, UNMARRIED AND CARMEN D MAYS, UNMARRIED 1801000006408013
(25)	ADA M. WOODS AND WILLENA J. CLONCH 1801000006408012
(26)	KENNETH CLONCH, SR. AND WILLENA CLONCH 1801000006408011
(27)	IRVIN L. MCWHORTER 1801000006408010
(28)	JOHN T GRAY AND MARY CATHERINE GRAY 1801000006408009
(29)	TABITHA L. MCCARTY 1801000006401026
(30)	BOARD OF EDUCATION OF THE MAD RIVER-GREEN LOCAL SCHOOL DISTRICT 2101100036000 1008
(31)	KEVIN S. I. SWEITZER AND LESLIE K. SWEITZER 1801000006401025
(32)	DANIEL J. PEREZ AND KELYN ELISE MCCOY 1801000006401024
(33)	KELLY K. ROBINSON 1801000006401023
(34)	MARY K. TRISEL 1801000006401022
(35)	DONALD R. KING AND DEBORAH L. KING 1801000006401021
(36)	LEIGH ANNE ADAMS, UNMARRIED 1801000006401020
(37)	BARBARA ANN KINARD 1801000006216016
(38)	ROBERT D. HECKLER AND PENNY CREIGHTON 2101100036102001
(39)	RONNIE R. CONLEY AND VICTORIA L. CONLEY 1801000006216015
(40)	CHARLES F. SUVER III 1801000006214012
(41)	LARRY D. SECRIST 2101100036101009
(42)	DENIS S. BOCKELMAN 2101100036101008
(43)	DENNIS D. SMITH AND DEBRA I. SMITH 1801000006214009
(44)	BRANDON A. KIRKHAM 1801000006214008
(45)	CLYDE M.S STITES AND ELIZABETH J. STITES 2101100036101007
(46)	MELISSA M. HOWARD 2101100036101006
(47)	MARTIN R. TRENT AND MARY B. TRENT 1801000006214007

REV. BY	DATE	DESCRIPTION

DATE COMPLETED 04/03/19

0 100 200 400 HORIZONTAL SCALE IN FEET

PID NO. 109441

R/W DESIGNER JDH
R/W REVIEWER BJS

PROPERTY MAP

CLA-CR315-1.28

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TOTAL NUMBER OF :

35 OWNERSHIPS 0 TOTAL TAKES

54 PARCELS 0 OWNERSHIPS W/ STRUCTURES INVOLVED

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

ALL AREAS IN ACRES

GRANTEE:

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF BOARD OF CLARK COUNTY COMMISSIONERS UNLESS OTHERWISE SHOWN.

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS	AS ACQUIRED BOOK	AS ACQUIRED PAGE
													FEDERAL			
7	SPRING LAKE CONDOMINIUM	10, 11	PB 15, PG 67	2101000005800027	8.347									NO TAKE		
8	GEORGE ROGERS CLARK MEMORIAL NO.	10, 11	OR VOL 526, PG 209	1801000005000089	15.053									NO TAKE		
	8437 VETERANS OF FOREIGN WARS															
	OF THE UNITED STATES															
9-WDV	JASON NEIL AUGENSTEIN	10, 11	OR BK 627, PG 171	2101000005000128	8.02	0.162	0.230	0.162	0.068			7.790		GRADING		
10-WDV	ARROW INVESTMENTS OF ENON, LTD.,	10, 11	OR BK 1197, PG 39	2101000005000013	0.18	0.047	0.061	0.047	0.014			0.119		CONSTRUCT BIKEPATH		
	AN OHIO LIMITED LIABILITY COMPANY															
10-T						0.000	0.001	0.000	0.001					GRADING & SEEDING		
11-WD	MAD RIVER TOWNSHIP	10, 11	OR VOL 2087, PG 2246	1801000050001003	2.26	0.293	0.555	0.293	0.262		1.705			GRADING FOR DRAINAGE		
12-WDV	DAVID G. WELCH	10, 11, 12	OR VOL 1931, PG 736	2101100036303028	0.94	0.000	0.037	0.000	0.037			0.903		CONSTRUCT BIKEPATH		
		13														
12-T						0.000	0.021	0.000	0.021					GRADING & SEEDING		
13-WD	HILLSIDE CREEK FARMS, LLC,	10, 11, 12	OR VOL 2023, PG 707	1801000006409003	112.299	1.021	1.123	1.021	0.102		111.176			GRADING		
	AN ARIZONA LIABILITY COMPANY	13, 14, 15														
		16, 17														
13-T						0.000	0.038	0.000	0.038					GRADING & SEEDING		
14-WDV	DAVID G. WELCH	12, 13, 14	OR VOL 1931, PG 736	2101100036302020	2.36	0.000	0.110	0.000	0.110			2.250		CONSTRUCT BIKEPATH		
		15														
14-T						0.000	0.075	0.000	0.075					GRADING & SEEDING		
15-WDV	JONAH HENSLEY, JR.	14, 15	OR VOL 663, PG 271	2101100036302002	0.505	0.000	0.024	0.000	0.024			0.481		CONSTRUCT BIKEPATH		
15-T						0.000	0.030	0.000	0.030					GRADING & SEEDING		
16-WDV	CHRISTA J. BRAUN	14, 15	OR VOL 2123, PG 1807	2101100036302001	0.597	0.000	0.009	0.000	0.009			0.588		CONSTRUCT BIKEPATH		
16-T						0.000	0.021	0.000	0.021					GRADING & SEEDING		
17-WDV	HARRISON MADDEN, JR. AND	14, 15	OR VOL 1824, PG 2503	2101100036301004	0.457	0.000	0.010	0.000	0.010			0.447		CONSTRUCT BIKEPATH		
	EVELYN MADDEN	16, 17														
17-T						0.000	0.016	0.000	0.016					GRADING & SEEDING		
													FEDERAL			

LEGEND:
WD = WARRANTY DEED
WDV = WARRANTY DEED IN THE NAME OF THE VILLAGE OF ENON, OHIO
SHV = STANDARD HIGHWAY EASEMENT IN THE NAME OF THE VILAGE OF ENON, OHIO
T = TEMPORARY EASEMENT
SWV = SEWER EASEMENT IN THE NAME OF THE VILLAGE OF ENON, OHIO

NOTE: ALL TEMPORARY PARCELS TO BE OF 12 MONTH DURATION.

NOTE: UNDER NO CIRCUMSTANCES ARE TEMPORARY EASEMENTS TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

(c) = CALCULATED AREA

* DENOTES RIGHT OF WAY ENCROACHMENT

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

FEDERAL PROJECT NO. E190 (367)

PID NO. 109441

STATE JOB NO. 471192

R/W DESIGNER JDH

R/W REVIEWER BJS

SUMMARY OF ADDITIONAL RIGHT OF WAY

CLA-CR315-01.28

6 / 25

116 / 138

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NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

GRANTEE:
ALL RIGHT OF WAY ACQUIRED IN THE NAME OF BOARD OF CLARK COUNTY COMMISSIONERS UNLESS OTHERWISE SHOWN.

ALL AREAS IN ACRES

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS	AS ACQUIRED BOOK	AS ACQUIRED PAGE
													FEDERAL			
18-WDV	HARRISON MADDEN, JR. AND	16, 17	OR VOL 1824, PG 2503	2101100036301003	0.458	0.000	0.012	0.000	0.012			0.446		CONSTRUCT BIKEPATH		
	EVELYN MADDEN															
18-T						0.000	0.015	0.000	0.015					GRADING & SEEDING		
19-WDV	HARRISON MADDEN, JR. AND	16, 17	OR VOL 1824, PG 2503	2101100036301035	0.471	0.000	0.012	0.000	0.012			0.459		CONSTRUCT BIKEPATH		
	EVELYN MADDEN															
19-T						0.000	0.011	0.000	0.011					GRADING & SEEDING		
20-WDV	HARRISON MADDEN, JR. AND	16, 17	OR VOL 1824, PG 2503	2101100036301036	0.516	0.000	0.047	0.000	0.047			0.469		CONSTRUCT BIKEPATH		
	EVELYN MADDEN															
20-T						0.000	0.018	0.000	0.018					GRADING & SEEDING		
21-T	LOYD E. HARDY AND	16, 17	DB 526, PG 209	1801000006408016	0.198	0.000	0.013	0.000	0.013					GRADING, SEEDING & SIDEWALK REPLACEMENT		
	MARY R. HARDY															
22-T	SHAWN W. FOGLE	16, 17, 18	OR VOL 2155, PG 4766	1801000006408015	0.195	0.000	0.013	0.000	0.013					GRADING, SEEDING & SIDEWALK REPLACEMENT		
		19														
23-T	EUGENE H. ALLISON AND	18, 19	OR VOL 1783, PG 2134	1801000006408014	0.198	0.000	0.013	0.000	0.013					GRADING, SEEDING & SIDEWALK REPLACEMENT		
	JUDY LEE ALLISON															
24-T	DANA D. MAYS AND	18, 19	OR VOL 1987, PG 138	1801000006408013	0.198	0.000	0.013	0.000	0.013					GRADING, SEEDING & SIDEWALK REPLACEMENT		
	CARMEN D. MAYS															
25-T	ADA M. WOODS AND	18, 19	OR VOL 2025, PG 900	1801000006408012	0.198	0.000	0.013	0.000	0.013					GRADING, SEEDING & SIDEWALK REPLACEMENT		
	WILLENA J. CLONCH															
26-T	KENNETH CLONCH, SR. AND	18, 19	OR VOL 2024, PG 1156	1801000006408011	0.198	0.000	0.013	0.000	0.013					GRADING, SEEDING & SIDEWALK REPLACEMENT		
	WILLENA CLONCH															
27-T	IRVIN L. MCWHORTER	18, 19	OR VOL 2158, PG 3203	1801000006408010	0.198	0.000	0.013	0.000	0.013					GRADING, SEEDING & SIDEWALK REPLACEMENT		
28-T	JOHN T. GRAY AND	18, 19	DB 531, PG 352	1801000006408009	0.244	0.000	0.016	0.000	0.016					GRADING, SEEDING & SIDEWALK REPLACEMENT		
	MARY CATHERINE GRAY															
29-T	TABITHA L. MCCARTY	20, 21	OR VOL 2153, PG 2269	1801000006401026	0.244	0.000	0.017	0.000	0.017					GRADING, SEEDING & SIDEWALK REPLACEMENT		
													FEDERAL			

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(c) = CALCULATED AREA

* DENOTES RIGHT OF WAY ENCROACHMENT

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

FEDERAL PROJECT NO. E190 (367)
PID NO. 109441
STATE JOB NO. 471192
R/W DESIGNER JDH
R/W REVIEWER BJS

SUMMARY OF ADDITIONAL RIGHT OF WAY

CLA-CR315-01.28

NET RESIDUE = RECORD AREA - TOTAL PRO - NET TAKE

GRANTEE:

ALL RIGHT OF WAY ACQUIRED IN THE NAME OF BOARD OF CLARK COUNTY COMMISSIONERS UNLESS OTHERWISE SHOWN.

ALL AREAS IN ACRES

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS	AS ACQUIRED BOOK	AS ACQUIRED PAGE
													FEDERAL			
30-SHV	BOARD OF EDUCATION OF THE MAD RIVER-GREEN LOCAL SCHOOL DISTRICT	16, 17, 18 19, 20, 21 22, 23	DB 505, PG 194	2101100036001008	34.06	0.000	0.506	0.000	0.506			33.554		CONSTRUCT SIDEWALK		
30-T						0.000	0.006	0.000	0.006					GRADING & SEEDING		
30-T1						0.000	0.037	0.000	0.037					CONSTRUCT A DRIVE		
30-T2						0.000	0.030	0.000	0.030					CONSTRUCT A DRIVE		
31-T	KEVIN S. I. SWEITZER AND LESLIE K. SWEITZER	20, 21	OR VOL 2114, PG 2608	18010000064010 25	0.198	0.000	0.013	0.000	0.013					GRADING, SEEDING & SIDEWALK REPLACEMENT		
32-T	DANIEL J. PEREZ AND KELYN ELISE MCCOY	20, 21	OR VOL 2144, PG 3010	18010000064010 24	0.198	0.000	0.013	0.000	0.013					GRADING, SEEDING & SIDEWALK REPLACEMENT		
33-T	KELLY K. ROBINSON	20, 21	OR VOL 2049,PG 2056	18010000064010 23	0.200	0.000	0.013	0.000	0.013					GRADING, SEEDING & SIDEWALK REPLACEMENT		
34-T	MARY K TRISEL	20, 21	OR VOL 1235, PG 188	18010000064010 22	0.201	0.000	0.013	0.000	0.013					GRADING, SEEDING & SIDEWALK REPLACEMENT		
35-T	DONALD R. KING AND DEBORAH L. KING	20, 21	DB 810, PG 562	18010000064010 21	0.201	0.000	0.013	0.000	0.013					GRADING, SEEDING & SIDEWALK REPLACEMENT		
36-T	LEIGH ANNE ADAMS	20, 21, 22 23	OR VOL 1803, PG 285	18010000064010 20	0.296	0.000	0.019	0.000	0.019					GRADING, SEEDING & SIDEWALK REPLACEMENT		
37-T	BARBARA ANN KINARD	22, 23	OR VOL 1807, PG 1681	18010000062160 16	0.313	0.000	0.020	0.000	0.020					GRADING, SEEDING & SIDEWALK REPLACEMENT		
38-SHV	ROBERT D. HECKLER AND PENNY CREIGHTON	22, 23	OR VOL 2057, PG 701	2101100036102001	0.505	0.000	0.012	0.000	0.012			0.493		CONSTRUCT SIDEWALK		
38-T						0.000	0.073	0.000	0.073					SEEDING & GRADING		
38-SWV1						0.000	0.007	0.000	0.007					DRAINAGE EASEMENT		
38-SWV2						0.000	0.005	0.000	0.005					DRAINAGE EASEMENT		
39-T	RONNIE R. CONLEY AND VICTORIA L. CONLEY	22, 23	OR VOL 1766, PG 968	18010000062160 15	0.281	0.000	0.019	0.000	0.019					GRADING, SEEDING & SIDEWALK REPLACEMENT		
40-T	CHARLES F. SUVER III	22, 23	OR VOL 2069, PG 607	18010000062140 12	0.268	0.000	0.004	0.000	0.004					GRADING, SEEDING & SIDEWALK REPLACEMENT		
41-WDV	LARRY D. SECRIST	22, 23	OR VOL 1490, PG 1375	2101100036101009	0.505	0.000	0.026	0.000	0.026			0.479		CONSTRUCT SIDEWALK		
41-T						0.000	0.018	0.000	0.018				FEDERAL	GRADING & SEEDING		

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REV. BY	DATE	DESCRIPTION

DATE COMPLETED

FEDERAL PROJECT NO. E190 (367)

PID NO. 109441

STATE JOB NO. 471192

R/W DESIGNER JDH

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SUMMARY OF ADDITIONAL RIGHT OF WAY

CLA-CR315-01.28

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PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD	AUDITOR'S PARCEL	RECORD AREA	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUCTURE	NET RESIDUE LEFT	NET RESIDUE RIGHT	TYPE FUND	REMARKS	AS ACQUIRED BOOK	AS ACQUIRED PAGE
													FEDERAL			
42-WDV	DENIS S. BOCKELMAN	22, 23	OR VOL 1614, PG 130	2101100036101008	0.459	0.000	0.023	0.000	0.023			0.436		CONSTRUCT SIDEWALK		
		24, 25														
42-T						0.000	0.014	0.000	0.014					GRADING & SEEDING		
43	DENNIS D. SMITH AND	22, 23,	DB 143, PG 19	18010000006214009	0.268									NO TAKE		
	DEBRA I. SMITH	24, 25,														
44	BRANDON A. KIRKHAM	24, 25	OR VOL 1881, PG 1763	18010000006214008	0.268									NO TAKE		
45-T	CLYDE M. STITES AND	24, 25	OR VOL 1423, PG 622	2101100036101007	0.459	0.000	0.005	0.000	0.005					GRADING & SEEDING		
	ELIZABETH J. STITES															
45-T1						0.000	0.005	0.000	0.005					CONSTRUCT DRIVE		
46	MELISSA M. HOWARD	24, 25	OR VOL 2020, PG 1409	2101100036101006	0.459									NO TAKE		
47	MARTIN R. TRENT AND	24, 25	OR VOL 1224, PG 196	18010000006214007	0.268									NO TAKE		
	MARY B. TRENT															
													FEDERAL			

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THE NAME OF THE VILAGE OF ENON, OHIO
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SUMMARY OF ADDITIONAL RIGHT OF WAY

CLA-CR315-01.28

CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 5 & 6, T.3 E., R. 8 N
BETWEEN THE MIAMI RIVERS SURVEY

Ex U — Ex U

20' SANITARY SEWER EASEMENT REVISED SURVEY RECORD VOL. 5 PG. 1098

Ex U — Ex U

BEGIN ACQUISTION Sta. 2+63.48

BEGIN WORK Sta. 3+04.95

BEGIN PROJECT Sta. 200+96.70

(8)
COMMERCIAL
GEORGE ROGERS CLARK MEMORIAL NO. 8437 VETERANS OF FOREIGN WARS
OR BK 526, PG 209
1801000005000089
15.053 AC.
5075 ENON-XENIA RD.

POT Sta. 198+70.00

PC Sta. 199+43.43

PC Sta. 2+12.92

PT Sta. 200+17.92

PC Sta. 201+19.82

PT Sta. 203+61.51

PT Sta. 5+37.04

(11)
LAND USE-NOT AVAILABLE
MAD RIVER TOWNSHIP
OR VOL 2087, PG 2246
1801000005000103
2.26 AC.
5075 ENON-XENIA RD..

SEC. 6, TOWN 3, RANGE 8
SEC 5, TOWN 3, RANGE 8

(13)
AGRICULTURAL
HILLSIDE CREEK FARMS, LLC,
AN ARIZONA LIMITED LIABILITY COMPANY
OR VOL 2023, PG 707
1801000006109003
112.299 AC.

(13-T)
VINYL GARAGE

SEE SHEET 12

MATCHLINE STA 6+50.00

RIGHT OF WAY TOPO SHEET
STA 1+00.00 TO STA 6+50.00

R/W DESIGNER JDH
R/W REVIEWER BJS

PID NO. 109441

CLA-CR315-1.28

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138

HORIZONTAL SCALE IN FEET
0 10 20 40

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(C1)
P.I. Sta. 199+80.69
Δ = 4° 16' 05" (LT)
Dc = 5° 43' 46"
R = 1,000.00'
T = 37.26'
L = 74.49'
E = 0.69'
C = 74.47'
C.B. = N 49° 19' 25" E

(C7)
P.I. Sta. 3+76.56
Δ = 19° 26' 51" (LT)
Dc = 6° 00' 00"
R = 954.93'
T = 163.64'
L = 324.12'
E = 13.92'
C = 322.57'
C.B. = N 43° 32' 09" E

(C2)
P.I. Sta. 202+41.26
Δ = 13° 50' 52" (LT)
Dc = 5° 43' 46"
R = 1,000.00'
T = 121.44'
L = 241.69'
E = 7.35'
C = 241.10'
C.B. = N 40° 15' 57" E

N 51° 27' 27" E 199
N 53° 15' 34" E
N 47° 11' 22" E 201
℄ CONST. ENON-XENIA RD. 202
℄ R/W. ENON-XENIA RD.
N 33° 48' 43" E 204
N 47° 11' 22" E 203
STA 5+37.04 ℄ R/W = STA 0+00.00 ℄ HUNTER RD.

BRIDGE ABUTMENT
GUARD RAIL
PIER CAP
BRIDGE ABUTMENT
GUARD RAIL
GUARD RAIL
GRASS
GRASS
CONST. LIMITS
CONST. LIMITS
SAVE TREES
SAVE GATE
SAVE TREES
SAVE TREES
SAVE ROCK
ROCK
ASPH DRIVE
GRASS
HUNTER 50' R/W
MUD RUN CREEK
MUD RUN CREEK
VILLAGE OF ENON CORPORATION LINE

(7)
RESIDENTAL
SPRING LAKE CONDOMINIUM
BK 15, PG 67
8.3465 AC.
2101000005800027
SPRING LAKE CIRCLE

1 STORY VINYL SIDING

1 STORY VINYL SIDING

(9)
RESIDENTAL
JASON NEIL AUGENSTEIN
OR BK 627, PG 171
2101000005000128
2.159 AC.
5000 HUNTER RD.

(10)
COMMERCIAL
ARROW INVESTMENTS OF ENON, LTD., AN OHIO LIMITED LIABILITY COMPANY
OR VOL 1197, PG 39
2101000005000013
0.18 AC.
HUNTER ROAD

(12)
COMMERCIAL
DAVID G. WELCH
OR VOL 1931, PG 736
INDIAN VALLEY ESTATES
PB VOL 12, PG 18
2101100036303028
0.94 AC. (LOTS 20, 21)
810 ENON XENIA RD

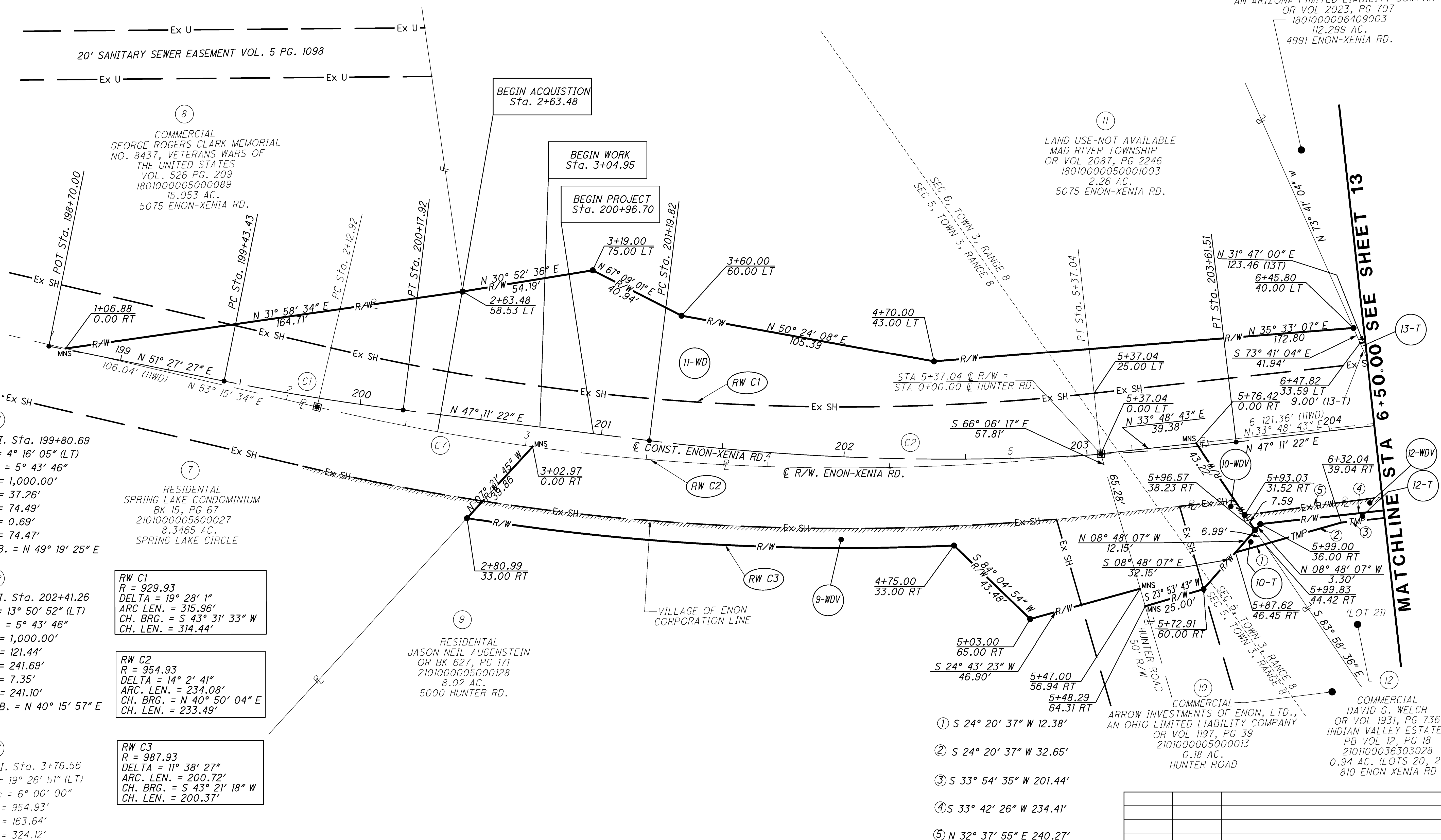
(LOT 21)

9-WDV
11-WD
10-WDV
12-WDV
10-T
12-T

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 5 & 6, T.3 E., R. 8 N
BETWEEN THE MIAMI RIVERS SURVEY



(C1)
P.I. Sta. 199+80.69
Δ = 4° 16' 05" (LT)
Dc = 5° 43' 46"
R = 1,000.00'
T = 37.26'
L = 74.49'
E = 0.69'
C = 74.47'
C.B. = N 49° 19' 25" E

(C2)
P.I. Sta. 202+41.26
Δ = 13° 50' 52" (LT)
Dc = 5° 43' 46"
R = 1,000.00'
T = 121.44'
L = 241.69'
E = 7.35'
C = 241.10'
C.B. = N 40° 15' 57" E

(C7)
P.I. Sta. 3+76.56
Δ = 19° 26' 51" (LT)
Dc = 6° 00' 00"
R = 954.93'
T = 163.64'
L = 324.12'
E = 13.92'
C = 322.57'
C.B. = N 43° 32' 09" E

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HORIZONTAL SCALE IN FEET 0 10 20 40

PID NO. 109441

R/W DESIGNER JDH
R/W REVIEWER BJS

RIGHT OF WAY BOUNDARY SHEET
STA 1+00.00 TO STA 6+50.00

CLA-CR315-1.28

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 6, T. 3 E., R. 8 N
SEC. 36, T. 4 E., R. 8 N
BETWEEN THE MIAMI RIVERS SURVEY

MATCHLINE STA 6+50.00 SEE SHEET 10

MATCHLINE STA 11+50.00 SEE SHEET 14

(13)
AGRICULTURAL
HILLSIDE CREEK FARMS, LLC,
AN ARIZONA LIMITED LIABILITY COMPANY
OR VOL 2023, PG 707
1801000006409003
112.299 AC.

PI Sta. 6+66.55
PC Sta. 206+02.55
PI Sta. 8+57.69
PT Sta. 206+57.04

10' PERMANENT WATER EASEMENT
PER STINE ROAD WATERLINE LOOP PLANS
OR VOL 1810, PG. 2249

13-T
DO NOT DISTURB WOOD FEN
13-WD
WOOD FEN
CONST. LIMITS
GRASS
Ex U
Ex SH
TMP
STA 8+57.78 ℄ R/W =
STA 0+00.00 ℄ MATTHEWS AVE.
℄ R/W ENON-XENIA RD.
℄ CONST. ENON-XENIA RD.
N 33° 20' 31" E
205
N 32° 37' 55" E
206
207
208
N 30° 07' 12" E
N 30° 13' 12" E
209
C3
Ex R/W
R/W
FO
G
W
E
VILLAGE OF ENON
CORPORATION LINE
CONC. WALK
CONC. PORCH
DO NOT DISTURB
CONC. WALK
14-T
14-WDV
12-T
12-WDV
ASPH DRIVE
MATTHEWS AVENUE
50' R/W
WALK

(12)
COMMERCIAL
DAVID G. WELCH
OR VOL 1931, PG 736
INDIAN VALLEY ESTATES
PB VOL 12, PG 18
2101100036303028
0.94 AC. (LOT 21)
810 ENON XENIA RD
1-STORY
BRICK
BLD
(LOT 20)

(14)
COMMERCIAL
DAVID G. WELCH
OR VOL 1931, PG 736
INDIAN VALLEY ESTATES
PB VOL 12, PG 18
2101100036302020
2.36 AC. (LOTS 22-26)
740-760 ENON XENIA RD
1-STORY
BRICK
BLD
(LOT 22)
(LOT 23)
(LOT 24)

C3
P.I. Sta. 206+29.80
Δ = 3° 07' 19" (LT)
Dc = 5° 43' 46"
R = 1,000.00'
T = 27.25'
L = 54.49'
E = 0.37'
C = 54.48'
C.B. = N 31° 46' 51" E

SEC 6, TOWN 3, RANGE 8
SEC 36, TOWN 4, RANGE 8

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 109441

R/W DESIGNER JDH
R/W REVIEWER BJS

RIGHT OF WAY TOPO SHEET
STA 6+50.00 TO STA 11+50.00

CLA-CR315-1.28

12 / 25

122
138

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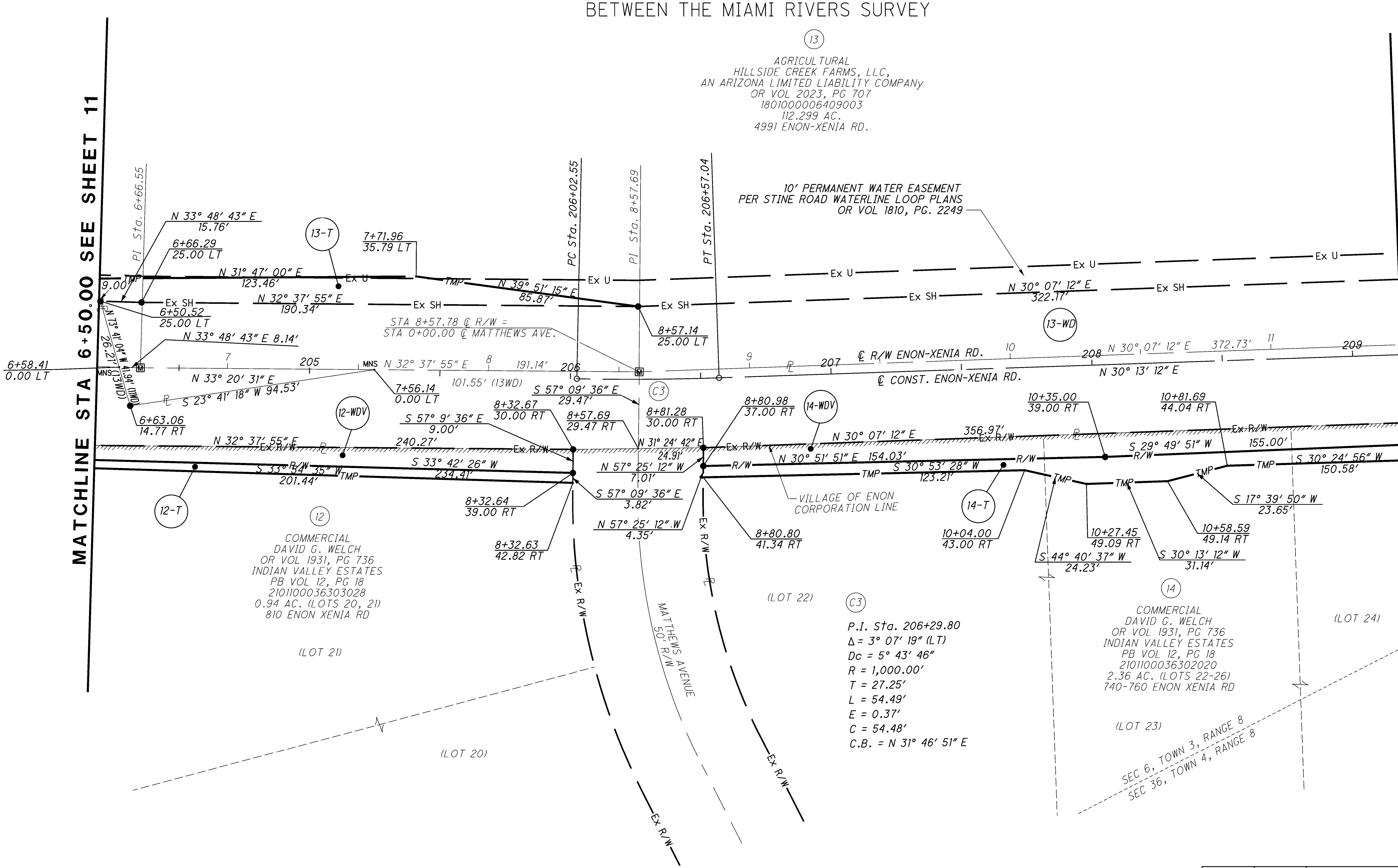
CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 6, T. 3 E., R. 8 N
SEC. 36, T. 4 E., R. 8 N
BETWEEN THE MIAMI RIVERS SURVEY



MATCHLINE STA 6+50.00 SEE SHEET 11
MATCHLINE STA 11+50.00 SEE SHEET 15
13
AGRICULTURAL
HILLSIDE CREEK FARMS, LLC,
AN ARIZONA LIMITED LIABILITY COMPANy
OR VOL 2023, PG 707
1801000006409003
112.299 AC.
4991 ENON-XENIA RD.
10' PERMANENT WATER EASEMENT
PER STINE ROAD WATERLINE LOOP PLANS
OR VOL 1810, PG. 2249
PI Sta. 6+66.55
PC Sta. 206+02.55
PI Sta. 8+57.69
PT Sta. 206+57.04
N 33° 48' 43" E
15.76'
6+66.29
25.00 LT
13-T
7+71.96
35.79 LT
N 31° 47' 00" E
123.46'
N 39° 51' 15" E
85.87'
N 30° 07' 12" E
322.17'
N 32° 37' 55" E
190.34'
6+50.52
25.00 LT
8+57.14
25.00 LT
13-WD
N 33° 48' 43" E 8.14'
STA 8+57.78 ℄ R/W =
STA 0+00.00 ℄ MATTHEWS AVE.
6+58.41
0.00 LT
N 73° 41' 04" W 41.94' (1WD)
26.21' (13WD)
N 33° 20' 31" E
N 32° 37' 55" E
191.14'
101.55' (13WD)
S 23° 41' 18" W 94.53'
7+56.14
0.00 LT
℄ R/W ENON-XENIA RD.
℄ CONST. ENON-XENIA RD.
N 30° 07' 12" E
372.73'
N 30° 13' 12" E
6+63.06
14.77 RT
12-WDV
S 57° 09' 36" E
29.47'
8+32.67
30.00 RT
8+57.69
29.47 RT
8+81.28
30.00 RT
8+80.98
37.00 RT
14-WDV
10+35.00
39.00 RT
10+81.69
44.04 RT
S 57° 9' 36" E
9.00'
N 32° 37' 55" E
240.27'
N 31° 24' 42" E
24.91'
N 30° 07' 12" E
356.97'
S 29° 49' 51" W
155.00'
S 33° 54' 35" W
201.44'
S 33° 42' 26" W
234.41'
N 57° 25' 12" W
7.01'
N 30° 51' 51" E 154.03'
S 30° 53' 28" W
123.21'
S 30° 24' 56" W
150.58'
8+32.64
39.00 RT
S 57° 09' 36" E
3.82'
N 57° 25' 12" W
4.35'
VILLAGE OF ENON
CORPORATION LINE
S 17° 39' 50" W
23.65'
12-T
14-T
8+32.63
42.82 RT
8+80.80
41.34 RT
10+04.00
43.00 RT
10+27.45
49.09 RT
10+58.59
49.14 RT
S 44° 40' 37" W
24.23'
S 30° 13' 12" W
31.14'
12
COMMERCIAL
DAVID G. WELCH
OR VOL 1931, PG 736
INDIAN VALLEY ESTATES
PB VOL 12, PG 18
2101100036303028
0.94 AC. (LOTS 20, 21)
810 ENON XENIA RD
(LOT 21)
(LOT 20)
(LOT 22)
MATTHEWS AVENUE
50' R/W
C3
P.I. Sta. 206+29.80
Δ = 3° 07' 19" (LT)
Dc = 5° 43' 46"
R = 1,000.00'
T = 27.25'
L = 54.49'
E = 0.37'
C = 54.48'
C.B. = N 31° 46' 51" E
14
COMMERCIAL
DAVID G. WELCH
OR VOL 1931, PG 736
INDIAN VALLEY ESTATES
PB VOL 12, PG 18
2101100036302020
2.36 AC. (LOTS 22-26)
740-760 ENON XENIA RD
(LOT 23)
(LOT 24)
SEC 6, TOWN 3, RANGE 8
SEC 36, TOWN 4, RANGE 8

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET 0 10 20 40

PID NO. 109441

R/W DESIGNER JDH
R/W REVIEWER BJS

RIGHT OF WAY BOUNDARY SHEET
STA 6+50.00 TO STA 11+50.00

CLA-CR315-1.28

13/25

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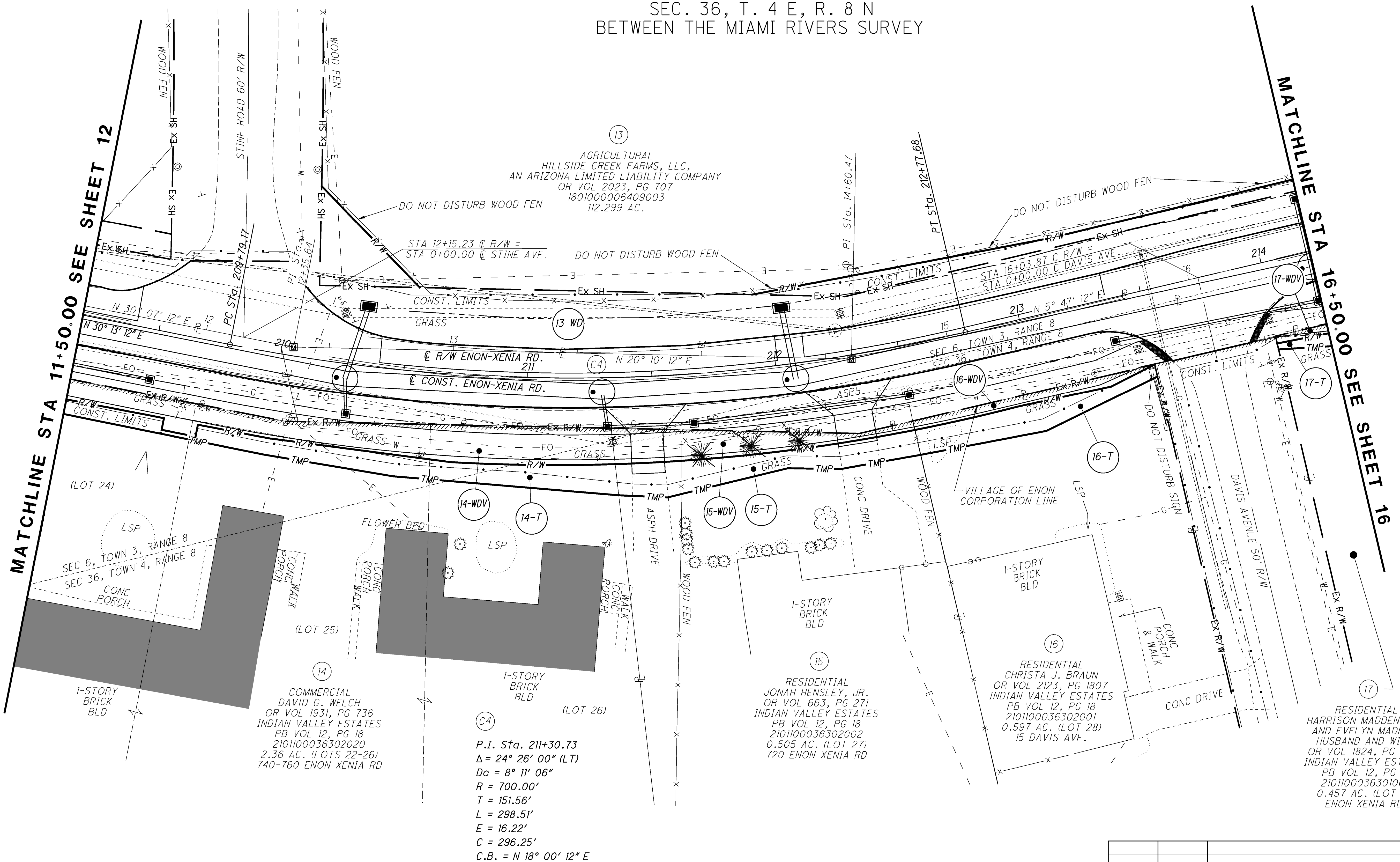
CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 6, T. 3 E, R. 8 N
SEC. 36, T. 4 E, R. 8 N
BETWEEN THE MIAMI RIVERS SURVEY



REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET 0 10 20 40

PID NO. 109441

R/W DESIGNER JDH
R/W REVIEWER BJS

RIGHT OF WAY TOPO SHEET
STA 11+50.00 TO STA 16+50.00

CLA-CR315-1.28

14/25

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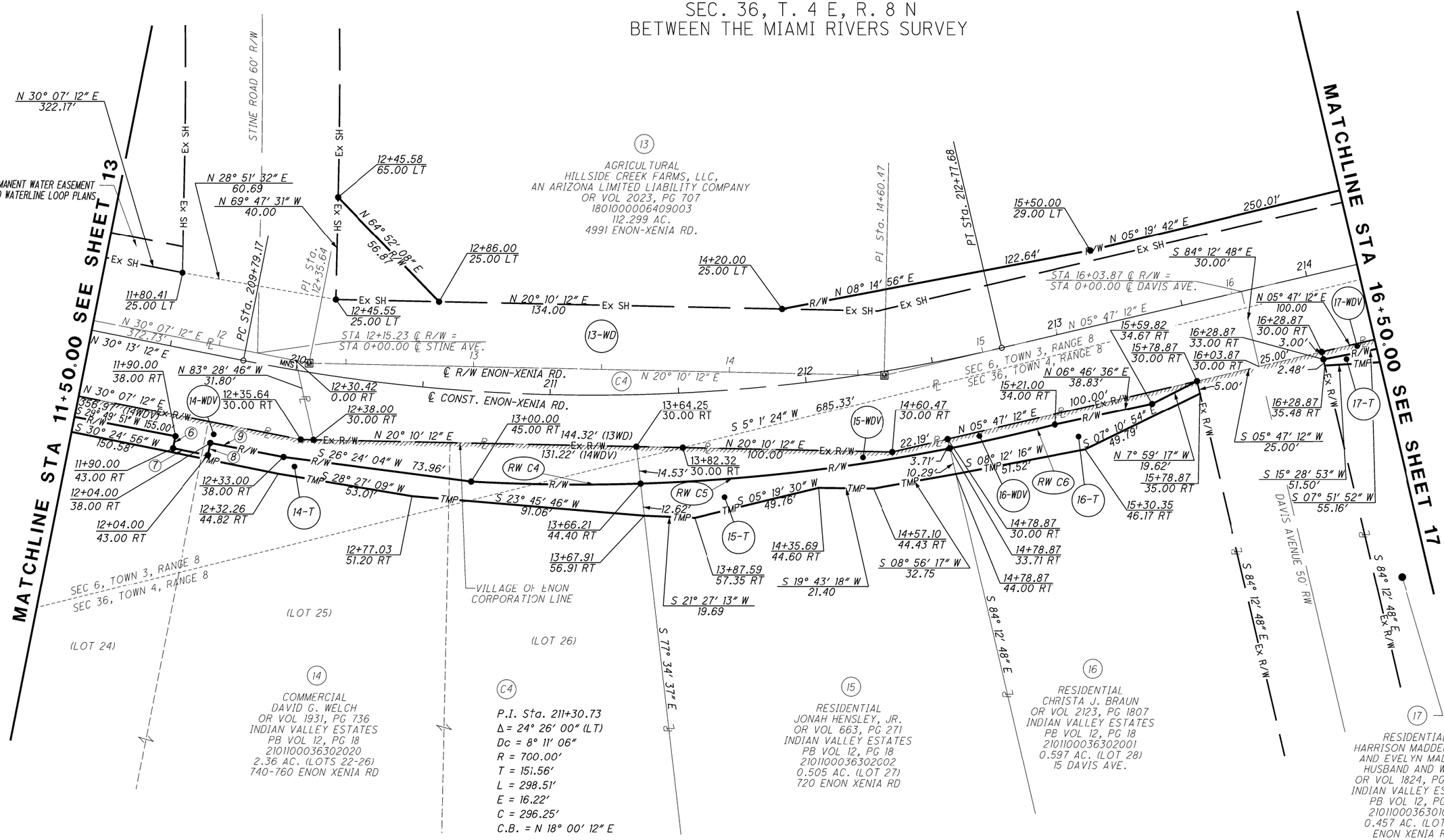
CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 6, T. 3 E, R. 8 N
SEC. 36, T. 4 E, R. 8 N
BETWEEN THE MIAMI RIVERS SURVEY



RW C4	RW C5	RW C6
R = 748.00	R = 748.00	R = 748.00
DELTA = 05° 04' 25"	DELTA = 09° 19' 17"	DELTA = 03° 13' 39"
ARC LEN. = 66.24'	ARC LEN. = 121.69'	ARC LEN. = 42.13'
CH. BRG. = S 19° 39' 08" W	CH. BRG. = S 12° 27' 17" W	CH. BRG. = S 6° 10' 49" W
CH. LEN. = 66.21'	CH. LEN. = 121.56'	CH. LEN. = 42.13'

⑥ N 59° 52' 48" W 4.78'

⑦ S 30° 07' 12" W 14.00'

⑧ S 59° 52' 48" E 4.85'

⑨ S 29° 49' 51" W 29.00'

REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 109441

R/W DESIGNER JDH
R/W REVIEWER BJS

RIGHT OF WAY BOUNDARY SHEET
STA 11+50.00 TO STA 16+50.00

CLA-CR315-1.28

15 / 25

125 / 138

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CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 6, T. 3 E, R. 8 N
SEC. 36, T. 4 E, R. 8 N
BETWEEN THE MIAMI RIVERS SURVEY

MATCHLINE STA 16+50.00 SEE SHEET 14

MATCHLINE STA 21+50.00 SEE SHEET 18

(13) AGRICULTURAL
HILLSIDE CREEK FARMS, LLC,
AN ARIZONA LIMITED LIABILITY COMPANY
OR VOL 2023, PG 707
1801000006409003
112.299 AC.

(17) RESIDENTIAL
HARRISON MADDEN, JR.
AND EVELYN MADDEN,
HUSBAND AND WIFE,
OR VOL 1824, PG 2503
INDIAN VALLEY ESTATES
PB VOL 12, PG 18
2101100036301004
0.457 AC. (LOT 29)
ENON XENIA RD.

(18) RESIDENTIAL
HARRISON MADDEN, JR.
AND EVELYN MADDEN,
HUSBAND AND WIFE,
OR VOL 1824, PG 2503
INDIAN VALLEY ESTATES
PB VOL 12, PG 18
2101100036301003
0.457 AC. (LOT 30)
ENON XENIA RD.

(19) RESIDENTIAL
HARRISON MADDEN, JR.
AND EVELYN MADDEN,
HUSBAND AND WIFE,
OR VOL 1824, PG 2503
INDIAN VALLEY ESTATES
PB VOL 12, PG 18
2101100036301035
0.471 AC. (LOT 31)
ENON XENIA RD.

(20) RESIDENTIAL
HARRISON MADDEN, JR.
AND EVELYN MADDEN,
HUSBAND AND WIFE,
OR VOL 1824, PG 2503
INDIAN VALLEY ESTATES
PB VOL 12, PG 18
2101100036301036
0.516 AC. (LOTS 31 AND 32)
ENON XENIA RD.

(21) RESIDENTIAL
LOYD E. HARDY AND
MARY R. HARDY
DB 526, PG 209
GREEN MEADOWS SUBDIVISION
SECTION NO. 1
1801000006408016
0.198 AC. (LOT 23)
4675 ENON-XENIA RD.

(22) RESIDENTIAL
SHAWN W. FOGLE
OR VOL 2155, PG 4766
GREEN MEADOWS SUBDIVISION
SECTION NO. 1
PB 11, PG 36
1801000006408015
0.195 AC. (LOT 22)
4659 ENON-XENIA RD.

(30) EDUCATIONAL
BOARD OF EDUCATION OF
THE MAD RIVER-GREEN
LOCAL SCHOOL DISTRICT
DB 505, PG 194
21011000360001008
34.06 AC.
ENON-XENIA RD.

VILLAGE OF ENON CORPORATION LINE

℄ RW & CONST. ENON-XENIA RD.

STA 20+79.26 ℄ R/W =
STA 0+00.00 ℄ REBERT PIKE

PI Sta. 218+71.64
PI Sta. 219+04.54

2-STORY VINYL SIDING BLD

CONC PORCH & OVERHANG

SAVE BRICK WALL

SAVE CONC SIDEWALK

ASPH DRIVE

REBERT PIKE 50' R/W

CHAIN LINK FEN

DO NOT DISTURB WOOD FEN

CONST. LIMITS

GRASS

Ex SH

Ex R/W

R/W

TMP

SEC 6, TOWN 3, RANGE 8
SEC 36, TOWN 4, RANGE 8

N 5° 47' 12" E

N 5° 01' 24" E

17-WDV, 17-T, 18-WDV, 18-T, 19-WDV, 19-T, 20-T, 20-WDV, 21-T, 22-T, 30-SHV, 30-T

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

RIGHT OF WAY TOPO SHEET
STA 16+50.00 TO STA 21+50.00

CLA-CR315-1.28

PID NO. 109441

R/W DESIGNER JDH
R/W REVIEWER BJS

HORIZONTAL SCALE IN FEET
0 10 20 40

16 / 25

126 / 138

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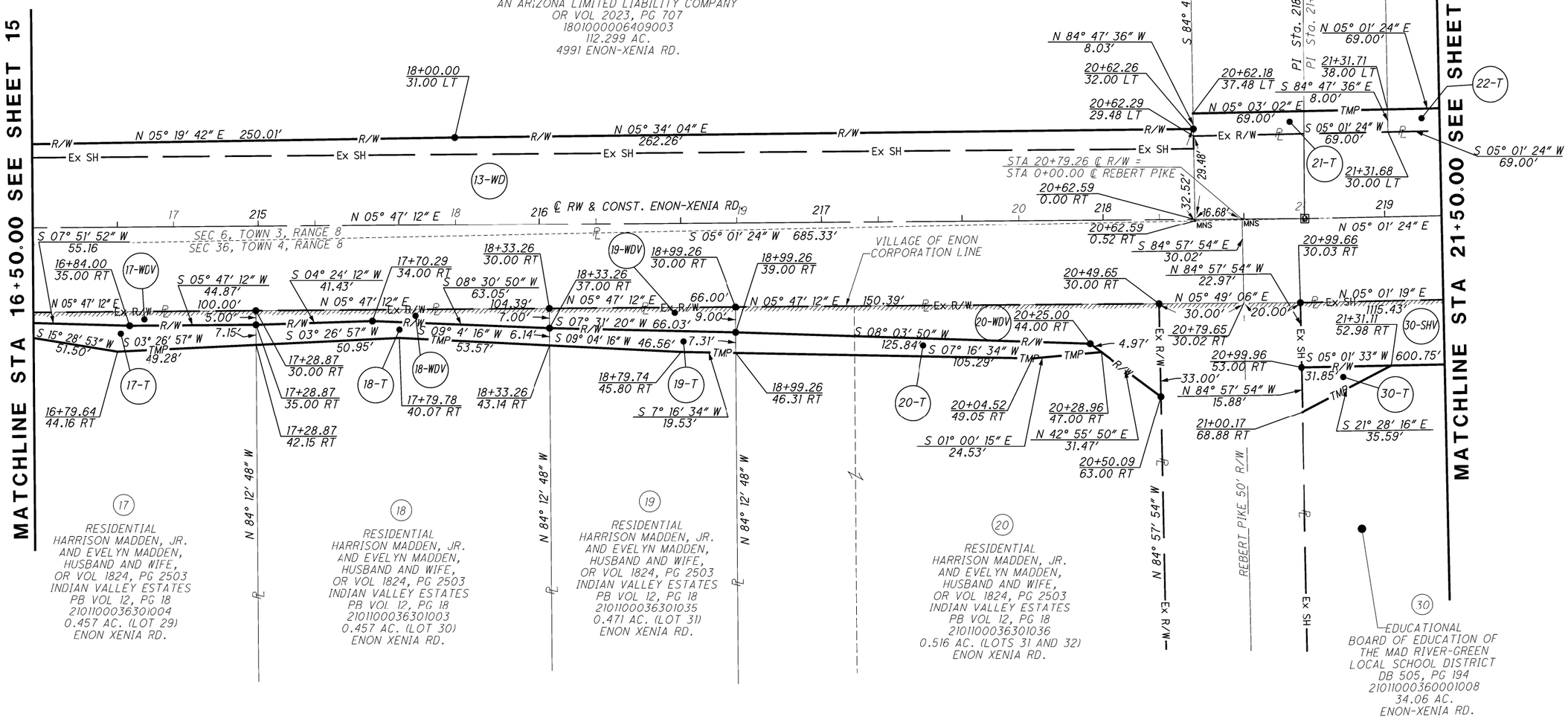
CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 6, T. 3 E, R. 8 N
SEC. 36, T. 3 E, R. 8 N
BETWEEN THE MIAMI RIVERS SURVEY



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REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

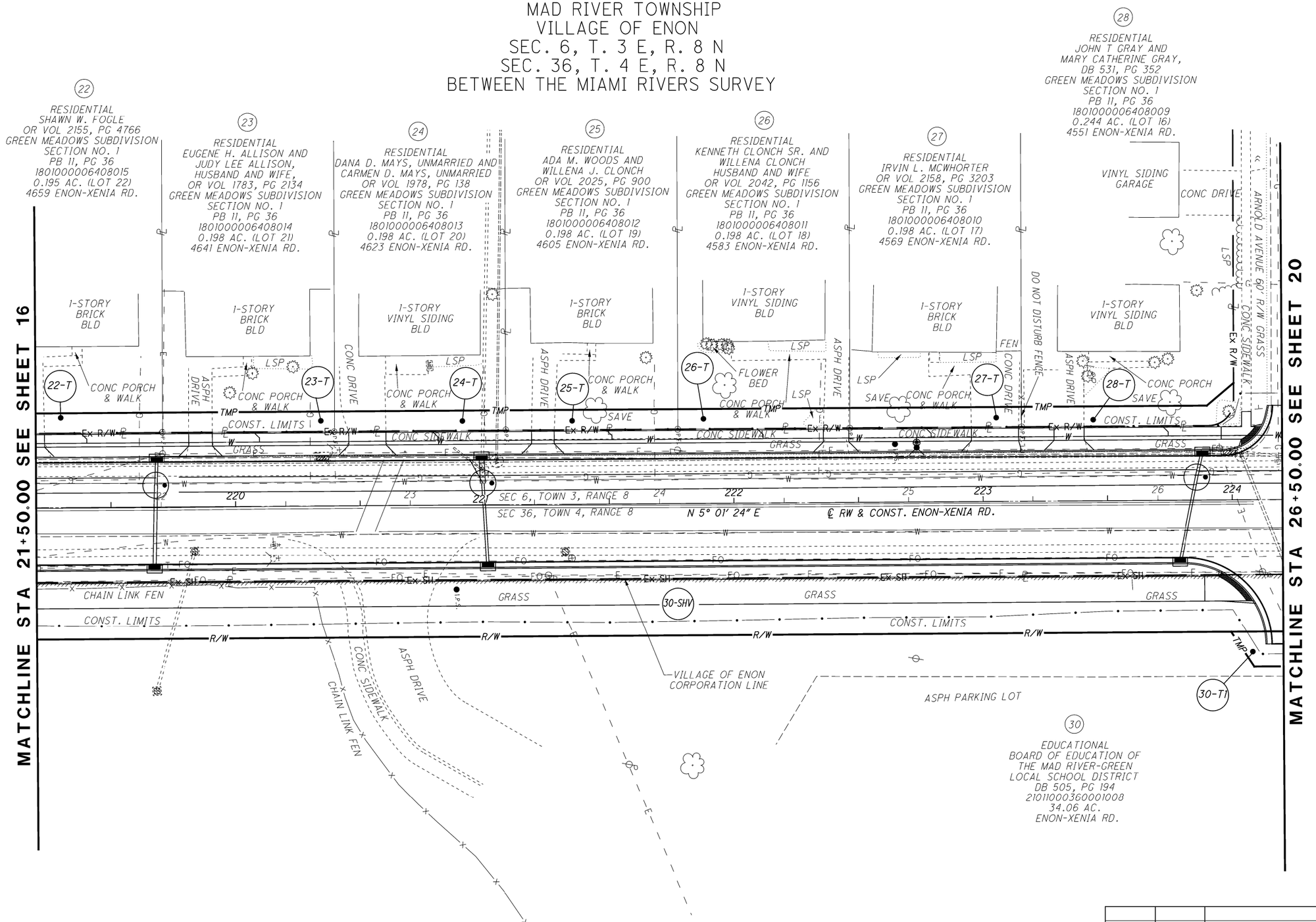
PID NO. 109441

R/W DESIGNER JDH
R/W REVIEWER BJS

RIGHT OF WAY BOUNDARY SHEET
STA 16+50.00 TO STA 21+50.00

CLA-CR315-1.28

CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 6, T. 3 E, R. 8 N
SEC. 36, T. 4 E, R. 8 N
BETWEEN THE MIAMI RIVERS SURVEY



REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

N

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 109441

R/W DESIGNER JDH
R/W REVIEWER BJS

RIGHT OF WAY TOPO SHEET
STA 21+50.00 TO STA 26+50.00

CLA-CR315-1.28

18 / 25

128
138

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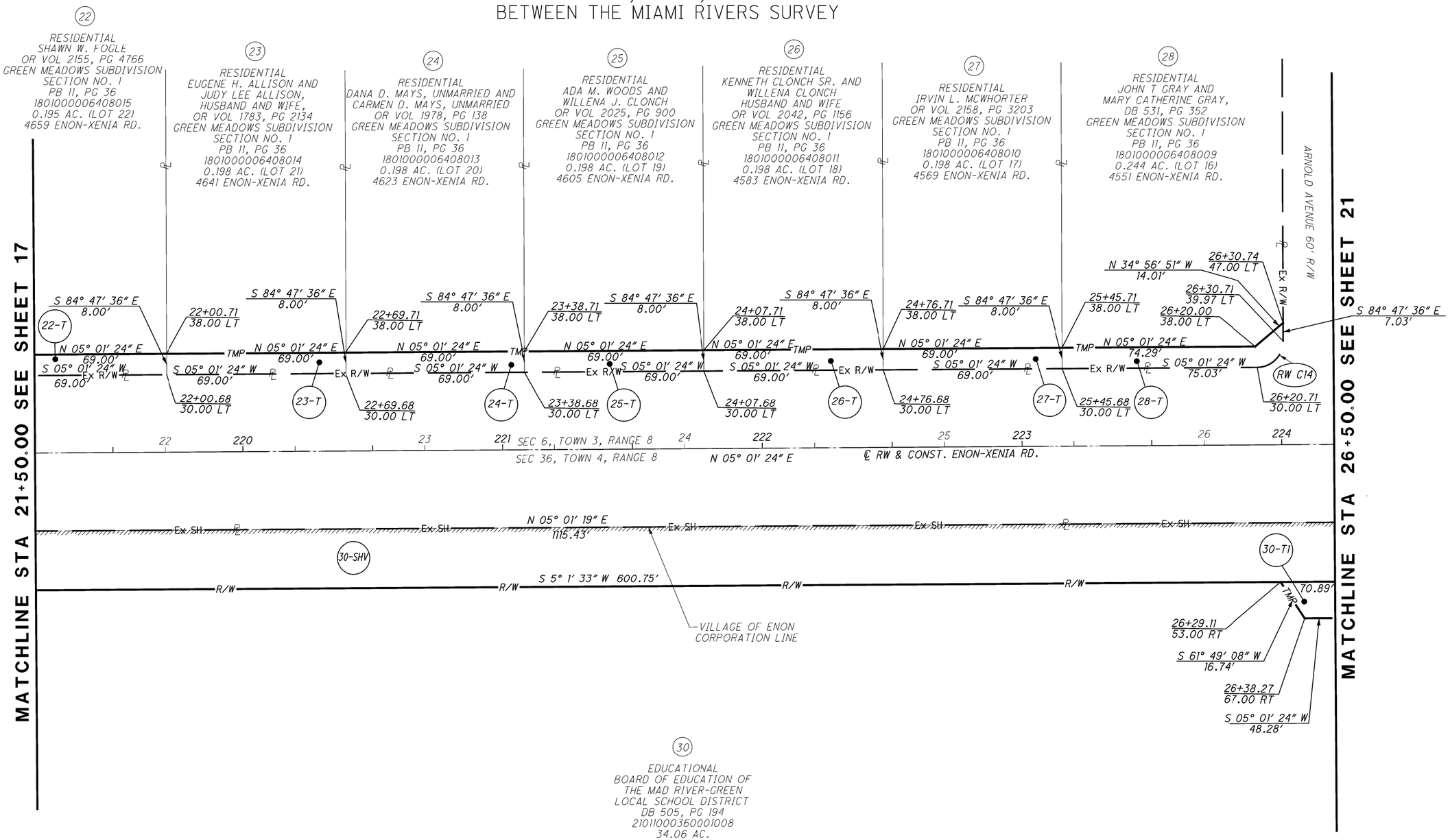
CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 6, T. 3 E, R. 8 N
SEC. 36, T. 4E, R. 8 N
BETWEEN THE MIAMI RIVERS SURVEY



RW C14
R = 10.00
DELTA = 89° 49' 00"
ARC. LEN. = 15.68'
CH. BRG. = S 39° 53' 54" W
CH. LEN. = 14.12'

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 109441

R/W DESIGNER JDH
R/W REVIEWER BJS

RIGHT OF WAY BOUNDARY SHEET
STA 21+50.00 TO STA 26+50.00

CLA-CR315-1.28

19 / 25

129
138

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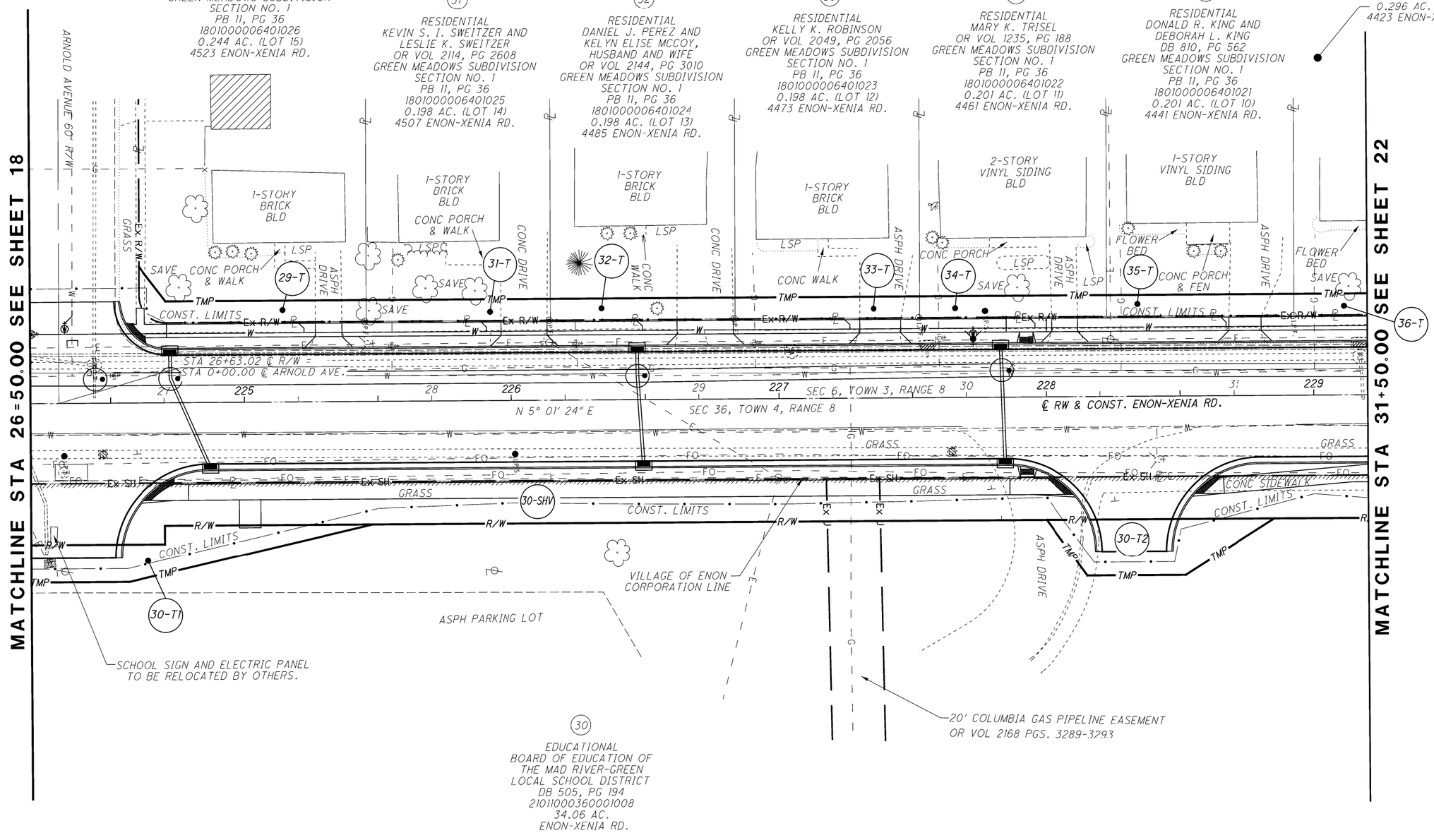
CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 6, T. 3 E, R. 8 N
SEC. 36, T. 4 E, R. 8 N
BETWEEN THE MIAMI RIVERS SURVEY



REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 109441

R/W DESIGNER JDH
R/W REVIEWER BJS

RIGHT OF WAY TOPO SHEET
STA 26+50.00 TO STA 31+50.00

CLA-CR315-1.28

20 / 25

130 / 138

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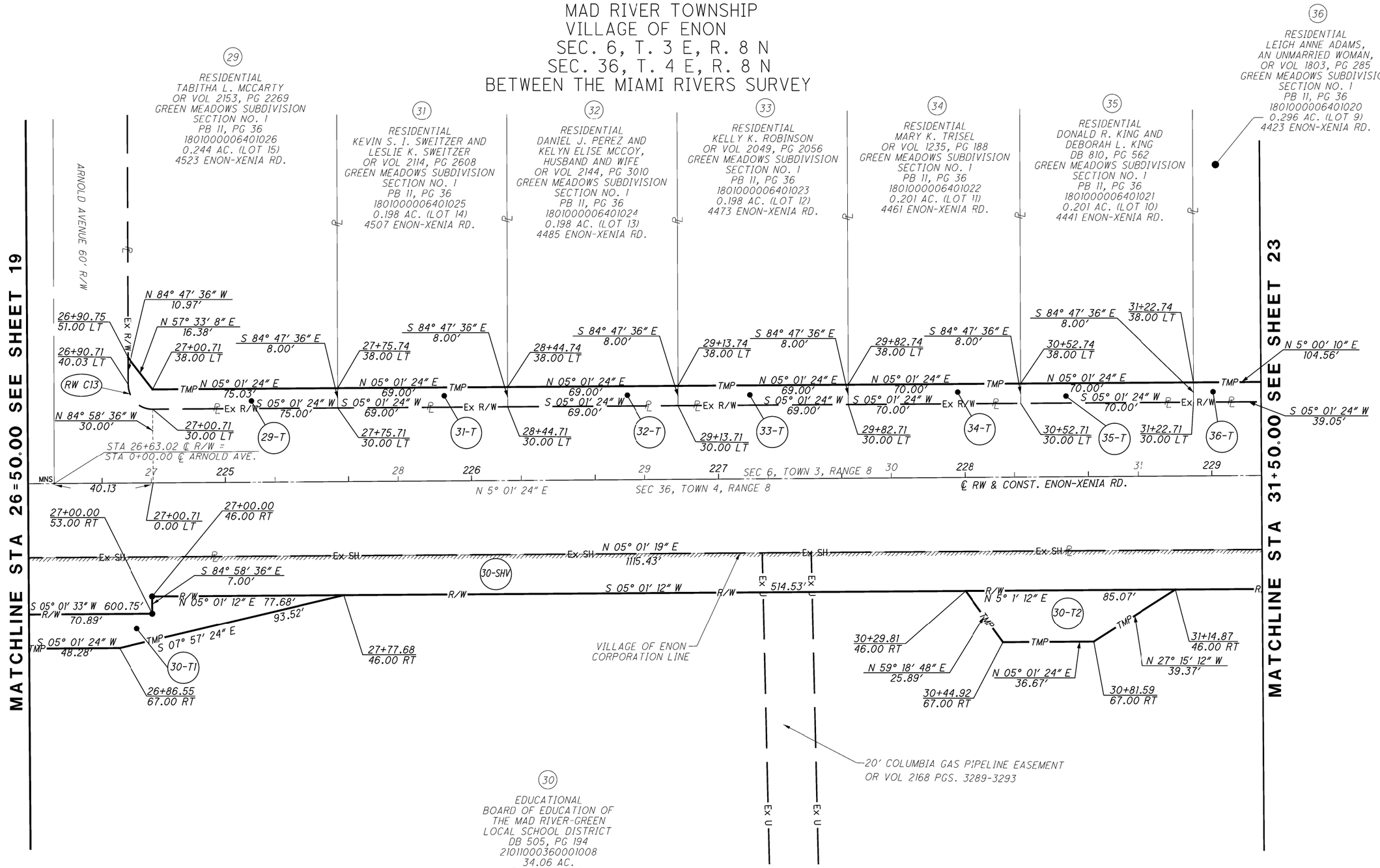
CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 6, T. 3 E, R. 8 N
SEC. 36, T. 4 E, R. 8 N
BETWEEN THE MIAMI RIVERS SURVEY



(29)
RESIDENTIAL
TABITHA L. MCCARTY
OR VOL 2153, PG 2269
GREEN MEADOWS SUBDIVISION
SECTION NO. 1
PB 11, PG 36
1801000006401026
0.244 AC. (LOT 15)
4523 ENON-XENIA RD.

(31)
RESIDENTIAL
KEVIN S. I. SWEITZER AND
LESLIE K. SWEITZER
OR VOL 2114, PG 2608
GREEN MEADOWS SUBDIVISION
SECTION NO. 1
PB 11, PG 36
1801000006401025
0.198 AC. (LOT 14)
4507 ENON-XENIA RD.

(32)
RESIDENTIAL
DANIEL J. PEREZ AND
KELYN ELISE MCCOY,
HUSBAND AND WIFE
OR VOL 2144, PG 3010
GREEN MEADOWS SUBDIVISION
SECTION NO. 1
PB 11, PG 36
1801000006401024
0.198 AC. (LOT 13)
4485 ENON-XENIA RD.

(33)
RESIDENTIAL
KELLY K. ROBINSON
OR VOL 2049, PG 2056
GREEN MEADOWS SUBDIVISION
SECTION NO. 1
PB 11, PG 36
1801000006401023
0.198 AC. (LOT 12)
4473 ENON-XENIA RD.

(34)
RESIDENTIAL
MARY K. TRISEL
OR VOL 1235, PG 188
GREEN MEADOWS SUBDIVISION
SECTION NO. 1
PB 11, PG 36
1801000006401022
0.201 AC. (LOT 11)
4461 ENON-XENIA RD.

(35)
RESIDENTIAL
DONALD R. KING AND
DEBORAH L. KING
DB 810, PG 562
GREEN MEADOWS SUBDIVISION
SECTION NO. 1
PB 11, PG 36
1801000006401021
0.201 AC. (LOT 10)
4441 ENON-XENIA RD.

(36)
RESIDENTIAL
LEIGH ANNE ADAMS,
AN UNMARRIED WOMAN,
OR VOL 1803, PG 285
GREEN MEADOWS SUBDIVISION
SECTION NO. 1
PB 11, PG 36
1801000006401020
0.296 AC. (LOT 9)
4423 ENON-XENIA RD.

(30)
EDUCATIONAL
BOARD OF EDUCATION OF
THE MAD RIVER-GREEN
LOCAL SCHOOL DISTRICT
DB 505, PG 194
210110003600001008
34.06 AC.
ENON-XENIA RD.

RW C13
R = 10.00
DELTA = 90° 11' 00"
ARC. LEN. = 15.74'
CH. BRG. = S 50° 06' 54" W
CH. LEN. = 14.16'

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 109441

R/W DESIGNER JDH
R/W REVIEWER BJS

RIGHT OF WAY BOUNDARY SHEET
STA 26+50.00 TO STA 31+50.00

CLA-CR315-1.28

21 / 25

131
138

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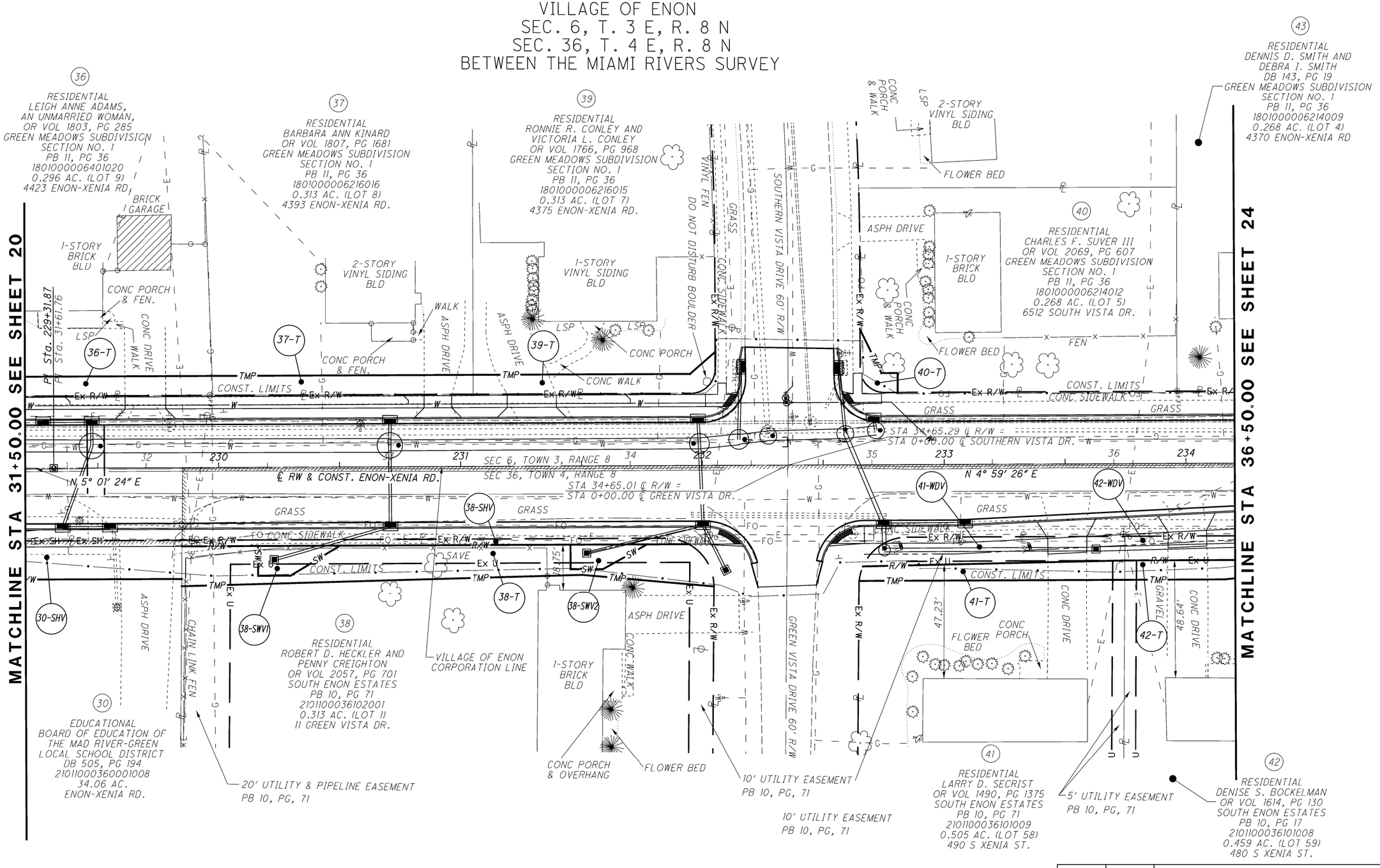
CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 6, T. 3 E, R. 8 N
SEC. 36, T. 4 E, R. 8 N
BETWEEN THE MIAMI RIVERS SURVEY



REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 109441

R/W DESIGNER JDH
R/W REVIEWER BJS

RIGHT OF WAY TOPO SHEET
STA 31+50.00 TO STA 36+50.00

CLA-CR315-1.28

22 / 25

132
138

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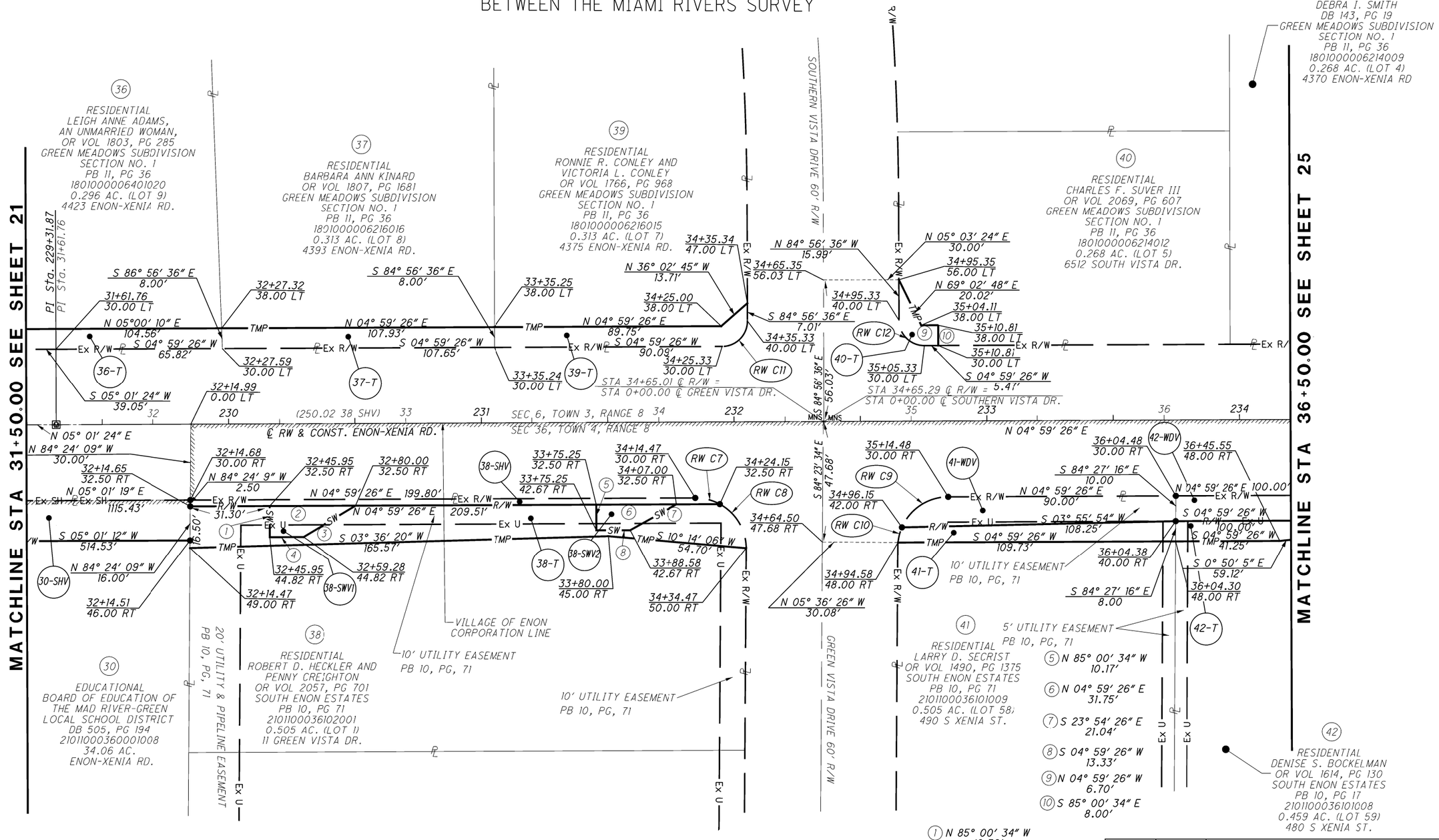
CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 6, T. 3 E, R. 8 N
SEC. 36, T. 4 E, R. 8 N
BETWEEN THE MIAMI RIVERS SURVEY



1. N 85° 00' 34" W 12.32'
2. N 04° 59' 26" E 34.05'
3. S 25° 44' 30" E 24.10'
4. S 04° 59' 26" W 13.33'
5. N 85° 00' 34" W 10.17'
6. N 04° 59' 26" E 31.75'
7. S 23° 54' 26" E 21.04'
8. S 04° 59' 26" W 13.33'
9. N 04° 59' 26" E 6.70'
10. S 85° 00' 34" E 8.00'

RW C7	RW C8	RW C9	RW C10	RW C11	RW C12
R = 20.00	R = 20.00	R = 20.00	R = 20.00	R = 10.00	R = 10.00
DELTA = 28° 57' 18"	DELTA = 61° 2' 42"	DELTA = 66° 25' 20"	DELTA = 17° 50' 19"	DELTA = 89° 56' 02"	DELTA = 90° 03' 58"
ARC. LEN. = 10.11'	ARC. LEN. = 21.31'	ARC. LEN. = 23.19'	ARC. LEN. = 5.23'	ARC. LEN. = 15.70'	ARC. LEN. = 15.72'
CH. BRG. = N 19° 28' 05" E	CH. BRG. = N 64° 28' 05" E	CH. BRG. = N 28° 13' 14" W	CH. BRG. = N 70° 21' 04" W	CH. BRG. = S 39° 58' 35" E	CH. BRG. = S 50° 01' 25" W
CH. LEN. = 10.00'	CH. LEN. = 20.32'	CH. LEN. = 21.91'	CH. LEN. = 6.20'	CH. LEN. = 14.13'	CH. LEN. = 14.15'

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
0 10 20 40

PID NO. 109441

R/W DESIGNER JDH
R/W REVIEWER BJS

BOUNDARY SHEET
RIGHT OF WAY
STA 31+50.00 TO STA 36+50.00

CLA-CR315-1.28

23 / 25

133 / 138

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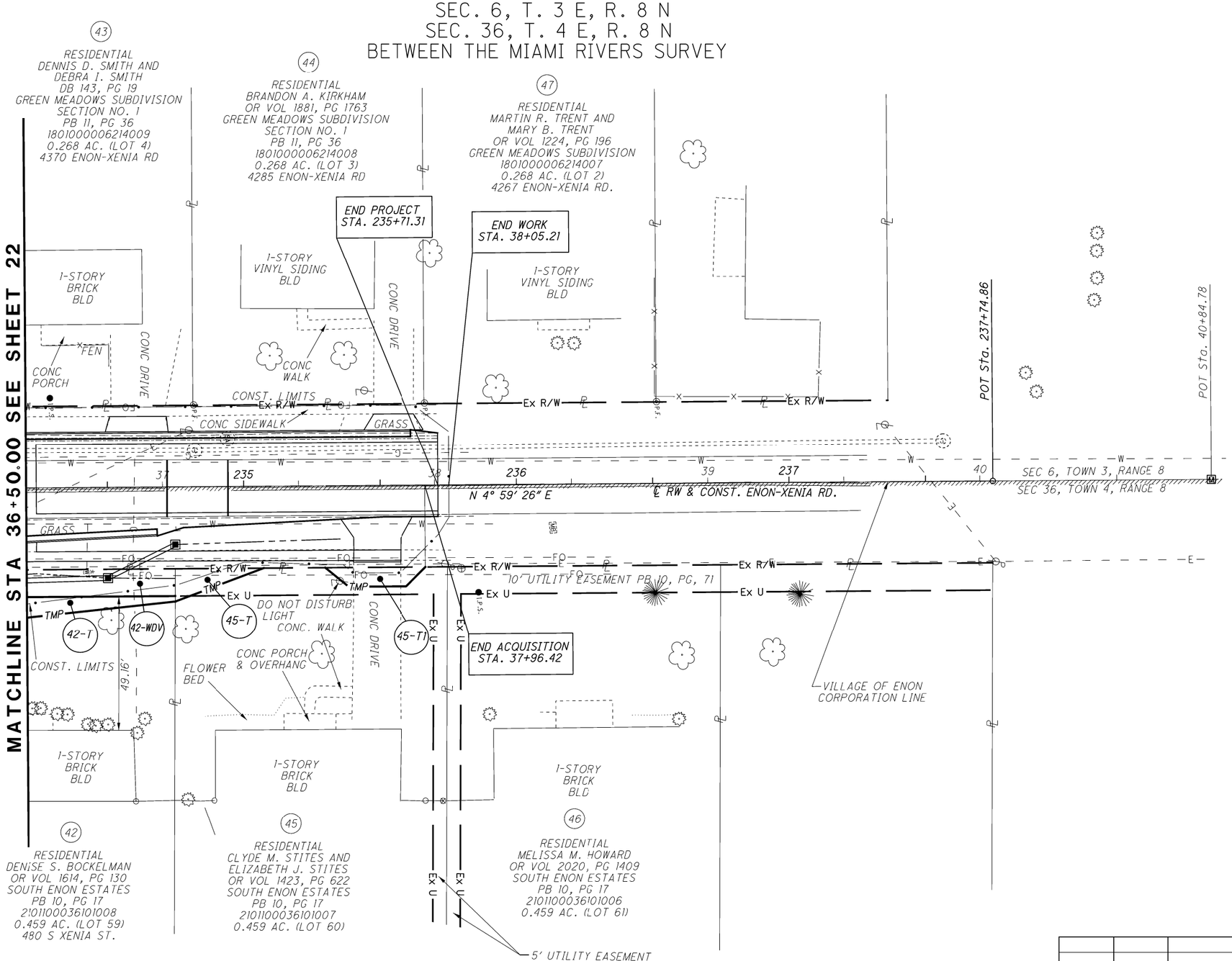
CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 6, T. 3 E, R. 8 N
SEC. 36, T. 4 E, R. 8 N
BETWEEN THE MIAMI RIVERS SURVEY



REV. BY	DATE	DESCRIPTION

DATE COMPLETED

HORIZONTAL SCALE IN FEET
0 10 20 40

R/W DESIGNER JDH
R/W REVIEWER BJS

PID NO. 109441

RIGHT OF WAY TOPO SHEET
STA 36+50.00 TO STA 40+84.78

CLA-CR315-1.28

24/25

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138

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CLARK COUNTY
MAD RIVER TOWNSHIP
VILLAGE OF ENON
SEC. 6, T. 3 E, R. 8 N
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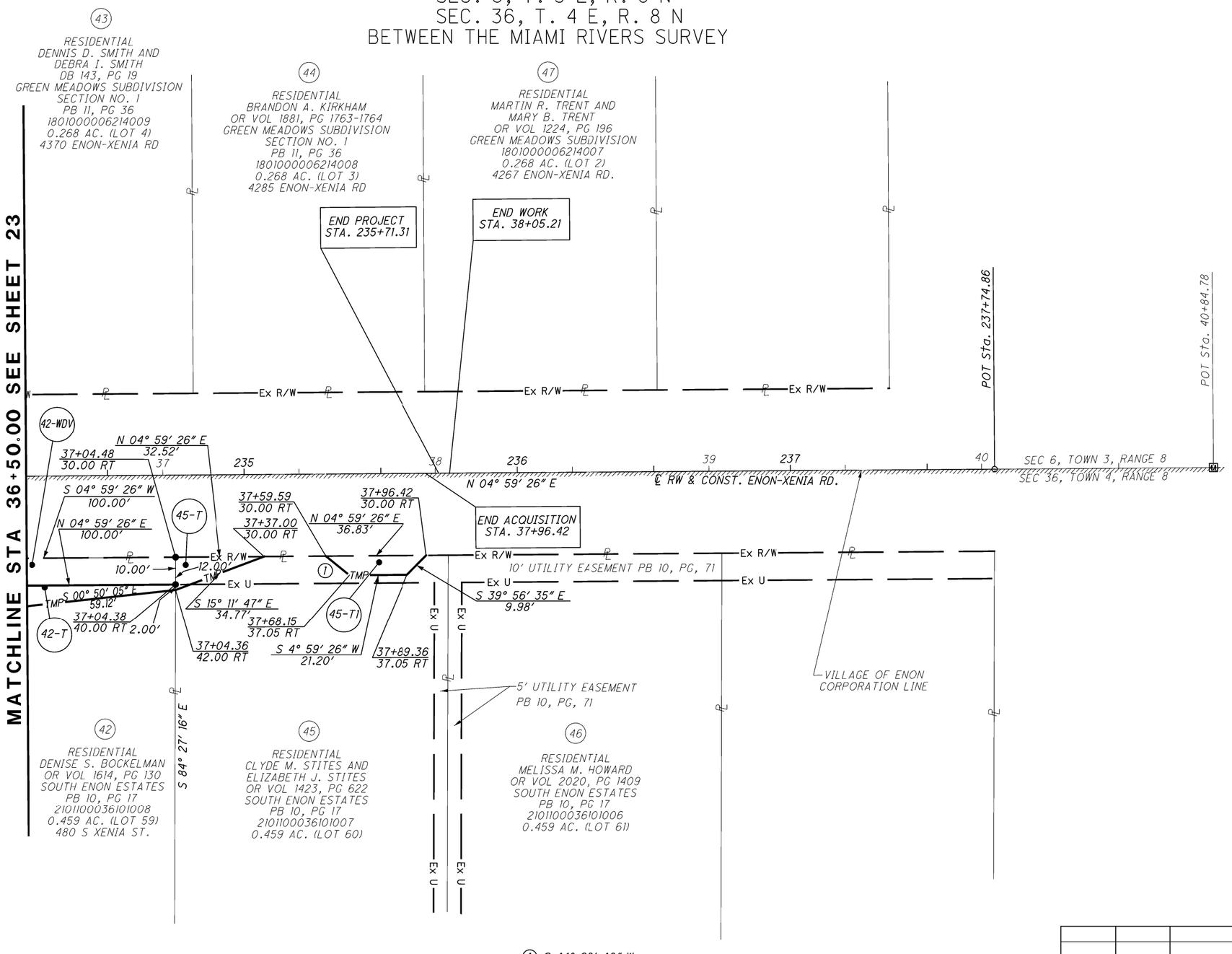

REV. BY	DATE	DESCRIPTION
DATE COMPLETED		

HORIZONTAL SCALE IN FEET
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RIGHT OF WAY BOUNDARY SHEET
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CLA-CR315-1.28

25/25

135
138

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PROJECT DESCRIPTION

AS PART OF THE PROPOSED RESURFACING OF CR 315 (ENON-XENIA ROAD) IN ENON, OHIO, IT IS PLANNED TO COMPLETELY REPLACE AND WIDEN APPROXIMATELY 1,400 L.F. OF EXISTING CR 315 PAVEMENT BETWEEN REBERT PIKE AND GREEN VISTA DRIVE. WITHIN THIS SECTION OF ROADWAY, IT IS ALSO PLANNED TO REPLACE A STORM SEWER AND CONSTRUCT A NEW WATER LINE. THIS PROJECT ALSO INCLUDES THE REHABILITATION AND RESURFACING OF THE EXISTING BRIDGE OVER MUD RUN, LOCATED ROUGHLY 1,700 FEET SOUTH OF REBERT PIKE.

HISTORIC RECORDS

BASED ON REVIEW OF THE ODOT TRANSPORTATION INFORMATION MANAGEMENT SYSTEM (TIMS) WEBPAGE, NO HISTORIC BORING LOGS OR INFORMATION WERE LOCATED WITHIN THE PAVEMENT REPLACEMENT PROJECT LIMITS.

GEOLOGY

THIS SITE IS WITHIN THE MAD RIVER INTERLOBATE PLAIN PHYSIOGRAPHIC REGION OF THE STATE, WITH SOIL OVERBURDEN CONSISTING PRIMARILY OF WISCONSIN-AGED AND PRIMARILY COHESIVE GLACIAL TILL. DISCONTINUOUS LAYERS/POCKETS OF GRANULAR MATERIAL MAY BE PRESENT, PARTICULARLY IN LOCALIZED ALLUVIAL DEPOSITS NEAR WATERCOURSES. ODNR BEDROCK TOPOGRAPHY MAPPING INDICATES THAT THE UPPERMOST BEDROCK IS LOCATED MORE THAN 100 FEET BELOW THE GROUND SURFACE. A REVIEW OF THE ODNR "LANDSLIDES IN OHIO" MAP INDICATES THAT ENON IS NOT IN A PORTION OF THE STATE THAT IS SUBJECT TO SEVERE SLOPE FAILURES, AND THE ON-LINE ODNR "OHIO MINE VIEWER" REVEALS THIS SITE IS NOT LOCATED OVER OR NEAR ANY KNOWN UNDERGROUND MINES.

KARST TERRAIN FEATURES ARE KNOWN TO BE PRESENT IN CLARK COUNTY. KARST FEATURES ARE FORMED BY THE DISSOLUTION OF CARBONATE ROCKS SUCH AS THE DOLOMITE PRESENT BENEATH THIS SITE. THE ODNR DIVISION OF GEOLOGIC SURVEY REPORT "KARST OF SPRINGFIELD, OHIO" DOES NOT INDICATE THE PRESENCE OF VERIFIED KARST FEATURES IN THE IMMEDIATE VICINITY OF THIS SITE, ALTHOUGH NUMEROUS FIELD VERIFIED KARST FEATURES ARE DOCUMENTED NORTHEAST OF ENON AND JUST NORTH OF I-70.

RECONNAISSANCE

ON DECEMBER 13, 2019, S&ME PERFORMED A SITE RECONNAISSANCE OF THE PROJECT SITE TO OBSERVE CURRENT CONDITIONS, POTENTIAL UTILITY CONFLICTS, AND TRAFFIC CONTROL REQUIREMENTS, AND TO MARK THE LOCATIONS OF THE BORINGS. SIGNIFICANT EXISTING PAVEMENT DISTRESS WAS OBSERVED THROUGHOUT THE PROJECT LIMITS AND, IN GENERAL, THE PAVEMENT WAS IN POOR CONDITION WITH NUMEROUS PRIOR UTILITY REPAIRS EVIDENT. CURRENT CONSTRUCTION AT THE ADJACENT SCHOOL HAD REQUIRED UTILITY WORK IN THE ROADWAY, WITH STEEL PLATES FOR TEMPORARY COVER. SEVERAL OVERHEAD UTILITY WIRES AS WELL AS NUMEROUS UNDERGROUND UTILITIES MANHOLES, CAPS, AND VALVES WERE NOTED ALONG THIS SECTION OF CR 315. TO AVOID UNDERGROUND UTILITIES, ALL FOUR BORINGS WERE DRILLED IN THE EXISTING NORTHBOUND LANE.

SUBSURFACE EXPLORATION

ON DECEMBER 31, 2019, FOUR (4) BORINGS AND ONE (1) BRIDGE DECK PAVEMENT CORE WERE PERFORMED FOR THIS SUBGRADE EXPLORATION. THE BORINGS WERE PERFORMED BY AN ATV-MOUNTED DRILLING RIG USING A 4-1/2-INCH O.D. CONTINUOUS-FLIGHT AUGER TO ADVANCE THE BORINGS BETWEEN SAMPLING ATTEMPTS. DISTURBED BUT REPRESENTATIVE SOIL SAMPLES WERE OBTAINED BY LOWERING A 2-INCH O.D. SPLIT-BARREL SAMPLER TO THE BOTTOM OF THE BORING AND THEN DRIVING THE SAMPLER INTO THE SOIL WITH BLOWS FROM A 140-POUND HAMMER FREELY FALLING 30 INCHES (ASTM D1586 - STANDARD PENETRATION TEST). SPT SAMPLES WERE ATTEMPTED CONTINUOUSLY BEGINNING BENEATH THE EXISTING PAVEMENT SECTION TO A DEPTH OF 6 FEET BELOW THE EXISTING SUBGRADE LEVEL, AND THEN AT 2-1/2-FOOT INTERVALS TO A DEPTH OF 15 FEET. SPT SAMPLES WERE EXAMINED IMMEDIATELY AFTER RECOVERY AND REPRESENTATIVE PORTIONS WERE PRESERVED IN AIRTIGHT GLASS JARS. IN ACCORDANCE WITH THE CURRENT ODOT SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS (SGE), THE HAMMER SYSTEM ON THE DRILL RIG WAS CALIBRATED IN ACCORDANCE WITH ASTM D 4633 TO DETERMINE THE DRILL ROD ENERGY RATIO. THE RATIO DETERMINED FOR THIS RIG EXCEEDED THE MAXIMUM ENERGY RATIO PERMITTED BY ODOT (90%), WHICH IS SHOWN ON THE BORING LOGS. AT THE COMPLETION OF DRILLING, THE BORINGS WERE BACKFILLED WITH CUTTINGS MIXED WITH BENTONITE CHIPS. THE EXISTING PAVEMENT WAS REPAIRED WITH AND EQUIVALENT THICKNESS OF COLD PATCH ASPHALT.

EXPLORATION FINDINGS

BENEATH 6 TO 12 INCHES OF EXISTING ASPHALT AND 2 TO 6 INCHES OF GRANULAR FILL (A-1-b, A-2-6) IN BORINGS B-001 AND B-004, ALL FOUR (4) BORINGS ENCOUNTERED 1.4 TO 1.5 FEET OF EXISTING FILL CONSISTING OF VERY-STIFF OR LOOSE TO MEDIUM-DENSE BROWN AND GRAY SANDY SILT (A-4a). BENEATH THE FILL, THE BORINGS ENCOUNTERED 3.0 TO 7.5 FEET OF NATURAL SOIL CONSISTING VARIABLY OF STIFF TO VERY-STIFF BROWN CLAY (A-7-6), SILT AND CLAY (A-6a), SILTY CLAY (A-6b) WITH A FEW MEDIUM-STIFF POCKETS, AND SANDY SILT (A-4a). THE A-7-6 SOIL WAS DESCRIBED AS CONTAINING SILT ZONES BELOW 5.5 FEET. ALL FOUR BORINGS WERE TERMINATED AT A DEPTH OF 15 FEET AFTER PENETRATING 5.0 TO 9.5 FEET INTO A DEPOSIT OF GRANULAR SOIL COMPRISING MEDIUM-DENSE BROWN COARSE AND FINE SAND (A-3a) OR MEDIUM-DENSE TO VERY-DENSE BROWN AND GRAY GRAVEL WITH SAND (A-1-b). GROUNDWATER WAS NOT ENCOUNTERED DURING DRILLING NOR DURING THE SHORT PERIOD WHEN THE BOREHOLES WERE LEFT OPEN PRIOR TO BACKFILLING, AND ALL FOUR SULFATE CONTENT TEST RESULTS WERE LESS THAN 20 PARTS PER MILLION (PPM).

S&ME ALSO PERFORMED A CORE OF THE ASPHALT DECK SURFACE OF THE BRIDGE OVER MUD RUN. AS DIRECTED, THE CORE WAS TERMINATED UPON ENCOUNTERING CONCRETE. APPROXIMATELY 4-1/2 INCHES OF EXISTING ASPHALT WERE RECOVERED.

SPECIFICATIONS

THIS GEOTECHNICAL EXPLORATION HAS BEEN PERFORMED IN GENERAL ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, OFFICE OF GEOTECHNICAL ENGINEERING, SPECIFICATIONS FOR GEOTECHNICAL INVESTIGATIONS.

AVAILABLE INFORMATION

ALL AVAILABLE SOIL AND BEDROCK INFORMATION THAT CAN BE CONVENIENTLY SHOWN ON THESE GEOTECHNICAL EXPLORATION SHEETS HAS BEEN SO REPORTED. ADDITIONAL EXPLORATIONS MAY HAVE BEEN MADE TO STUDY SOME SPECIAL ASPECT OF THE PROJECT. COPIES OF THIS DATA, IF ANY, MAY BE INSPECTED IN THE DISTRICT DEPUTY DIRECTOR'S OFFICE OR THE OFFICE OF GEOTECHNICAL ENGINEERING AT 1980 WEST BROAD STREET, COLUMBUS, OHIO.

LEGEND

DESCRIPTION	ODOT CLASS	CLASSIFIED MECH.	CLASSIFIED VISUAL
GRAVEL WITH SAND	A-1-b	1	10
COARSE AND FINE SAND	A-3a	1	1
SANDY SILT	A-4a	4	1
SILT AND CLAY	A-6a	--	1
SILTY CLAY	A-6b	1	--
CLAY	A-7-6	3	5
	TOTAL	10	18

XXXXX PAVEMENT OR BASE = X = APPROXIMATE THICKNESS — VISUAL

BORING LOCATION - PLAN VIEW

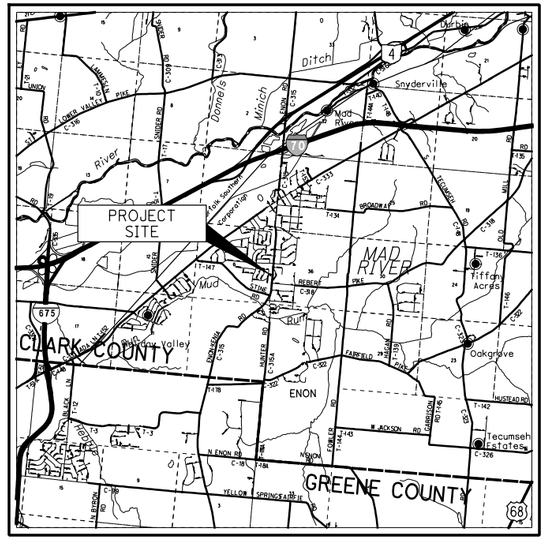
DRIVE SAMPLE AND/OR ROCK CORE BORING PLOTTED TO VERTICAL SCALE ONLY. HORIZONTAL BAR INDICATES A CHANGE IN STRATIGRAPHY.

WC INDICATES WATER CONTENT IN PERCENT.

N_{60} INDICATES STANDARD PENETRATION RESISTANCE NORMALIZED TO 60% DRILL ROD ENERGY RATIO.

SS INDICATES A SPLIT SPOON SAMPLE, STANDARD PENETRATION TEST.

ND BELOW DETECTION LIMITS OF ppm.



LOCATION MAP

SCALE IN MILES

0 1 2 3 4

N

PARTICLE SIZE DEFINITIONS

12"	3"	2.0 mm	0.42 mm	0.074 mm	0.005 mm
BOULDERS	COBBLES	GRAVEL	COARSE SAND	FINE SAND	SILT	CLAY
		No. 10 SIEVE	No. 40 SIEVE	No. 200 SIEVE		

RECON. - S&ME 12/13/19
DRILLING - S&ME 12/31/19
DRAWN - KAH 5/20/20 - 5/27/20, 12/7/20
REVIEWED - RSW 5/27/20, 12/7/20

6190 ENTERPRISE COURT
DUBLIN, OHIO 43016
(614) 793-2226

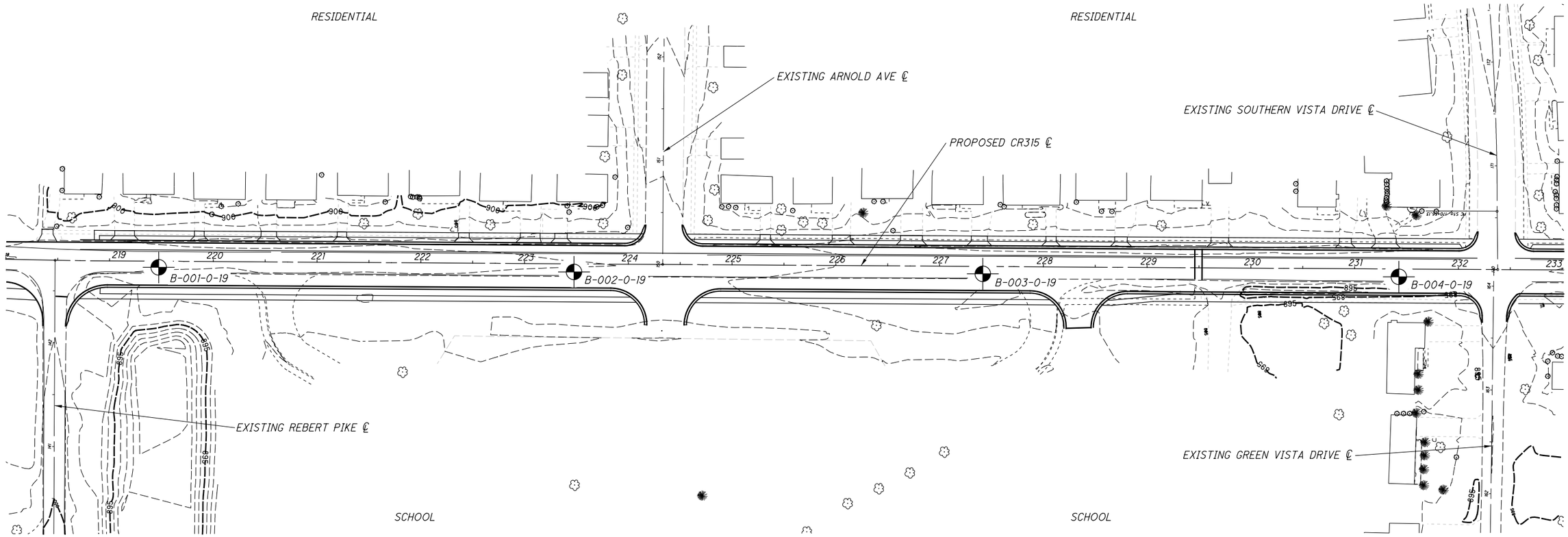
PID NO. 109441

SOIL PROFILE - ROADWAY
CR 315 (ENON-XENIA ROAD)

CLA-CR315-1.28

SUMMARY OF SOIL TEST DATA
C.R. 315

EXPLORATION ID., STATION & OFFSET	FROM - TO	SAMPLE ID	N_{60}	% REC	tsf HP	% GR	% CS	% FS	% SILT	% CLAY	LL	PL	PI	% WC	ODOT CLASS (GI)	ppm SO_4
B-001-0-19	1.0 - 2.5	SS-1	18	89	2.5-4.0	15	15	16	31	23	27	18	9	14	A-4a (4)	20
Sta. 219+47, 6' RT.	2.5 - 4.0	SS-2	12	78	2.5-3.25	SAME AS SS-3								21	A-7-6 (VISUAL)	
Latitude = 39.862897 N	4.0 - 5.5	SS-3	20	89	1.5-2.5	2	5	14	29	50	53	21	32	24	A-7-6 (19)	
Longitude = 83.9379611 W	5.5 - 7.0	SS-4	8	67	1.5-2.0	SAME AS SS-3								24	A-7-6 (VISUAL)	
	8.5 - 10.0	SS-5	12	67	-	SAME AS SS-6								11	A-3a (VISUAL)	
	11.0 - 12.5	SS-6	30	67	-	22	19	37	16	6	-	-	-	6	A-3a (VISUAL)	
	13.5 - 15.0	SS-7	75	100	-	VERY-DENSE GRAVEL WITH SAND								6	A-1-b (VISUAL)	
B-002-0-18	1.0 - 2.5	SS-1	12	89	2.0-3.5	8	16	18	36	22	23	15	8	13	A-4a (5)	12
Sta. 223+47, 8' RT.	2.5 - 4.0	SS-2	11	78	1.2-2.5	2	5	18	25	50	48	19	29	24	A-7-6 (17)	
Latitude = 39.863992 N	4.0 - 5.5	SS-3	24	50	1.8-3.7	SAME AS SS-2								15	A-7-6 (VISUAL)	
Longitude = 83.937854 W	5.5 - 7.0	SS-4	17	50	-	MEDIUM-DENSE TO DENSE GRAVEL WITH SAND								9	A-1-b (VISUAL)	
	8.5 - 10.0	SS-5	42	78	-	SAME AS SS-4								5	A-1-b (VISUAL)	
	11.0 - 12.5	SS-6	47	89	-	SAME AS SS-4								5	A-1-b (VISUAL)	
	13.5 - 15.0	SS-7	45	100	-	SAME AS SS-4								7	A-1-b (VISUAL)	
B-003-0-18	1.0 - 2.5	SS-1	23	89	-	27	16	15	30	12	19	16	3	10	A-4a (1)	ND
Sta. 227+41, 7' RT.	2.5 - 4.0	SS-2	9	100	1.7-2.5	2	3	12	40	43	40	18	22	21	A-6b (13)	
Latitude = 39.865072 N	4.0 - 5.5	SS-3	17	78	0.7-1.5	SAME AS SS-2								20	A-6a (VISUAL)	
Longitude = 83.937756 W	5.5 - 7.0	SS-4	14	78	1.5-3.0	STIFF TO VERY-STIFF SILT AND CLAY								12	A-1-b (VISUAL)	
	8.5 - 10.0	SS-5	14	78	-	42	23	15	13	7	-	-	-	9	A-1-b (VISUAL)	
	11.0 - 12.5	SS-6	42	50	-	SAME AS SS-5								6	A-1-b (VISUAL)	
	13.5 - 15.0	SS-7	57	100	-	SAME AS SS-5								6	A-1-b (VISUAL)	
B-004-0-18	1.0 - 2.5	SS-1	23	89	-	23	18	14	32	13	19	16	3	9	A-4a (2)	10
Sta. 231+42, 7' RT.	2.5 - 4.0	SS-2	11	50	1.5-2.5	1	2	7	37	53	44	21	23	23	A-7-6 (14)	
Latitude = 39.86617 N	4.0 - 5.5	SS-3	12	89	2.0-2.5	SAME AS SS-2								23	A-7-6 (VISUAL)	
Longitude = 83.937653 W	5.5 - 7.0	SS-4	17	94	1.5-2.0	SAME AS SS-2								22	A-7-6 (VISUAL)	
	8.5 - 10.0	SS-5	15	28	2.0	STIFF TO VERY-STIFF SANDY SILT								20	A-4a (VISUAL)	
	11.0 - 12.5	SS-6	17	67	-	MEDIUM-DENSE TO DENSE GRAVEL WITH SAND								8	A-1-b (VISUAL)	
	13.5 - 15.0	SS-7	32	100	-	SAME AS SS-6								9	A-1-b (VISUAL)	



N

0 50 100
HORIZONTAL SCALE IN FEET

DRAWN KAH
CHECKED RSW

SOIL PROFILE - ROADWAY
STA. 218+50 TO STA. 232+50 CR315

CLA-CR315-1.28

3 / 3

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