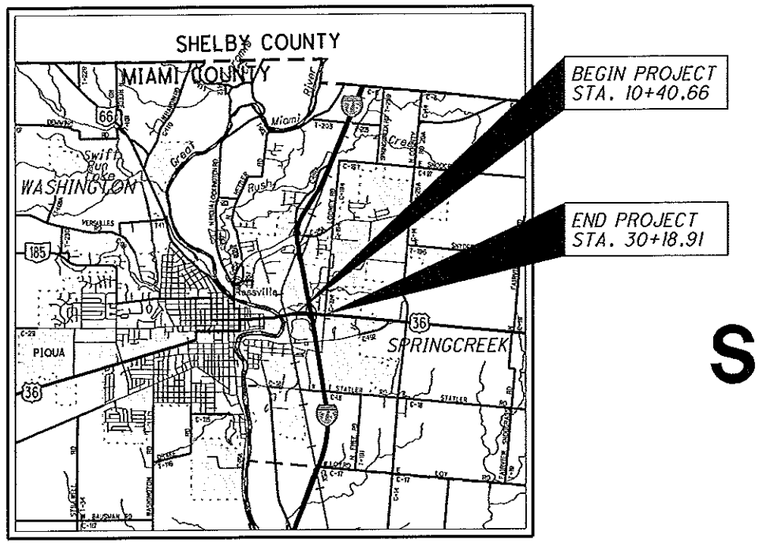

LOCATION MAP

LATITUDE: 40°09'05" LONGITUDE: 84°13'15"

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

	U.S. 36
CURRENT ADT (2016)	23,000
DESIGN YEAR ADT (2036)	26,000
DESIGN HOURLY VOLUME (2036)	2,300
DIRECTIONAL DISTRIBUTION	53%
TRUCKS (24 HOUR B&C)	7%
DESIGN SPEED	40 MPH
LEGAL SPEED	40 MPH

DESIGN FUNCTIONAL CLASSIFICATION:
03 PRINCIPAL ARTERIAL (URBAN)

NHS PROJECT ..... YES

DESIGN EXCEPTIONS

NONE REQUIRED

UNDERGROUND UTILITIES

CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG.

OHIO Utilities Protection SERVICE — Call Before You Dig 1-800-362-2764

(Non-members must be called directly)

OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE 1-800-925-0988

PLAN PREPARED BY:

KORDA

KORDA/NEMETH ENGINEERING, INC - CONSULTING ENGINEERS
1650 Watermark Drive, Suite 200 - Columbus, OH 43215-7010
TEL. 614-487-1650 FAX 614-487-8981 WEB www.korda.com

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

MIA-EAST ASH STREET BIKEWAY

CITY OF PIQUA
MIAMI COUNTY

INDEX OF SHEETS:

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TRAFFIC CONTROL	29,30
STRUCTURE (OVER 20 FOOT SPAN)	31-33

ENGINEERS SEAL:
FOR STRUCTURE (OVER 20 FOOT SPAN)
STATE OF OHIO — CAROL ANN BOEHM 52242 — REGISTERED PROFESSIONAL ENGINEER
SIGNED: Carol Ann Boehm
DATE: 1-10-17

ENGINEERS SEAL:
FOR ENTIRE PLAN EXCEPT STRUCTURE (OVER 20 FOOT SPAN)
STATE OF OHIO — CHRISTINE L. PLACEK 74317 — REGISTERED PROFESSIONAL ENGINEER
SIGNED: Christine L. Placek
DATE: 1-10-17

STANDARD CONSTRUCTION DRAWINGS

BP-7.1	7/18/14	SBR-1-13	1/17/14
CB-2.3	1/15/16	HL-30.11	7/21/17
CB-4.2	1/18/13		
		MT-95.30	7/21/17
DM-1.1	7/21/17	MT-95.31	7/21/17
DM-4.3	1/15/16	MT-97.10	7/18/14
DM-4.4	1/15/16	MT-101.90	7/21/17
		MT-105.10	7/19/13
MGS-1.1	7/21/17		
MGS-2.1	7/19/13	TC-41.20	10/18/13
MGS-3.1	7/21/17	TC-42.20	10/18/13
MGS-5.2	7/15/16	TC-52.10	10/18/13
		TC-52.20	7/21/17
RM-4.5	7/21/17	TC-61.30	1/20/17
RM-4.6	7/19/13	TC-71.10	1/20/17

SUPPLEMENTAL SPECIFICATIONS

800-2016	10/20/17
832	1/17/14
902	12/31/12

SPECIAL PROVISIONS

PROJECT DESCRIPTION

CONSTRUCTION OF A 0.38 MILE SECTION OF SHARED-USE PATH LOCATED ADJACENT TO EAST ASH STREET (U.S. 36 WB). PROJECT INCLUDES THE ADDITION OF PEDESTRIAN BARRIER TO THE MIA-36-11.76L BRIDGE.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 0.94 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.00 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI not required)

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2016 SPECIFICATIONS

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

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED Amy L. Stavenar
DATE 1/13/17 CITY ENGINEER, CITY OF PIQUA

APPROVED Randy Chevalley PE PS/ [illegible]
DATE 10/2/17 DISTRICT DEPUTY DIRECTOR

APPROVED [illegible]
DATE 11-1-17 DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. E140 (975)
PID NO. 97899
CONSTRUCTION PROJECT NO.
RAILROAD INVOLVEMENT NONE
MIA-EAST ASH STREET BIKEWAY
1/33

MIA - East Ash Street Bikeway
180027 PID - 97899
Dist 7 1/11/2018
Contract Proposal Available @ www.contracts.dot.state.oh.us/home
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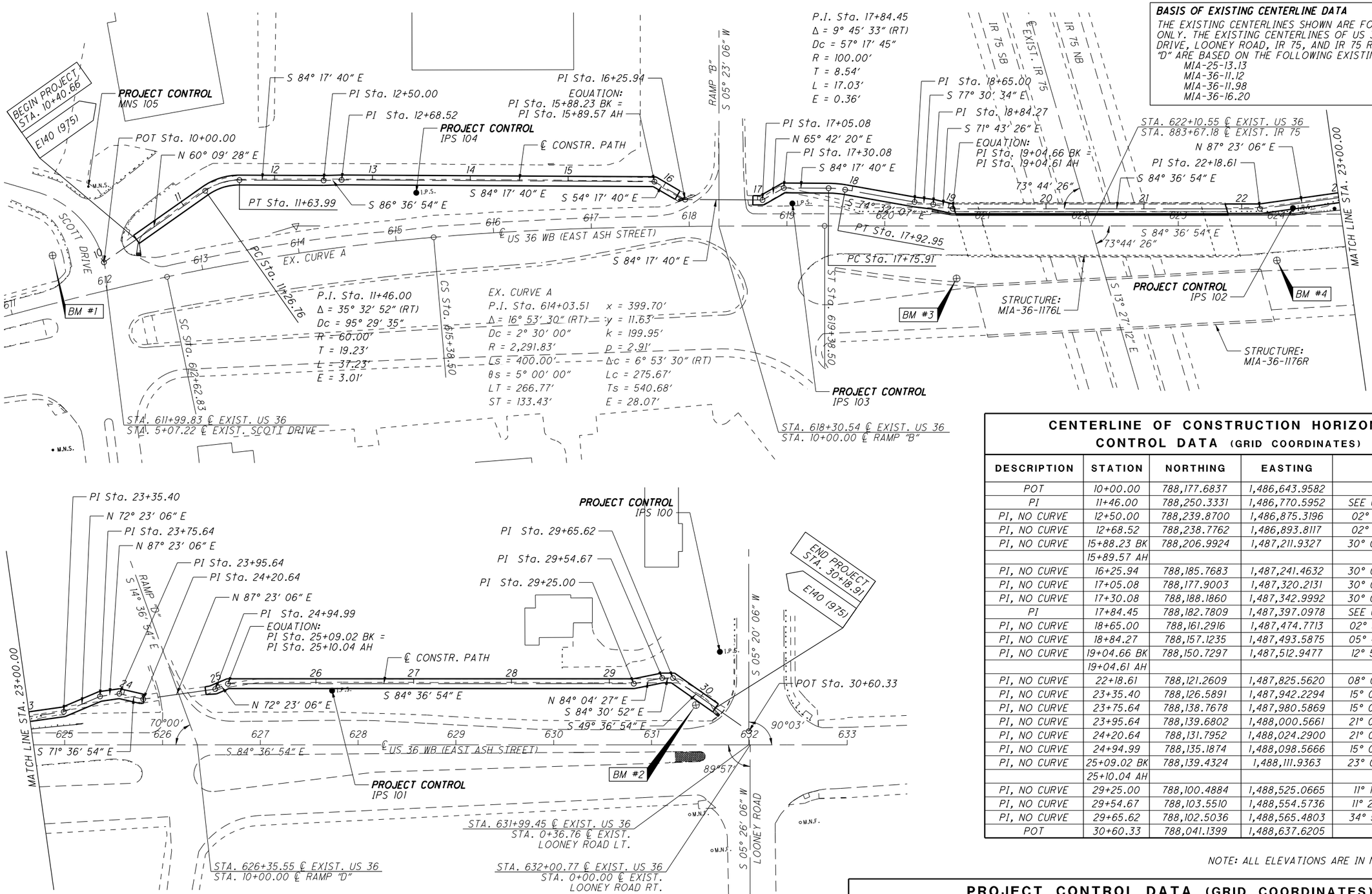

BASIS OF EXISTING CENTERLINE DATA

THE EXISTING CENTERLINES SHOWN ARE FOR REFERENCE ONLY. THE EXISTING CENTERLINES OF US 36, SCOTT DRIVE, LOONEY ROAD, IR 75, AND IR 75 RAMPS "B" AND "D" ARE BASED ON THE FOLLOWING EXISTING PLANS.

MIA-25-13.13
MIA-36-11.12
MIA-36-11.98
MIA-36-16.20

CENTERLINE OF CONSTRUCTION HORIZONTAL CONTROL DATA (GRID COORDINATES)

DESCRIPTION	STATION	NORTHING	EASTING	Δ
POT	10+00.00	788,177.6837	1,486,643.9582	NONE
PI	11+46.00	788,250.3331	1,486,770.5952	SEE CURVE DATA
PI, NO CURVE	12+50.00	788,239.8700	1,486,875.3196	02° 19' 14" (LT)
PI, NO CURVE	12+68.52	788,238.7762	1,486,893.8117	02° 19' 14" (RT)
PI, NO CURVE	15+88.23 BK	788,206.9924	1,487,211.9327	30° 00' 00" (RT)
	15+89.57 AH			
PI, NO CURVE	16+25.94	788,185.7683	1,487,241.4632	30° 00' 00" (LT)
PI, NO CURVE	17+05.08	788,177.9003	1,487,320.2131	30° 00' 00" (LT)
PI, NO CURVE	17+30.08	788,188.1860	1,487,342.9992	30° 00' 00" (RT)
PI	17+84.45	788,182.7809	1,487,397.0978	SEE CURVE DATA
PI, NO CURVE	18+65.00	788,161.2916	1,487,474.7713	02° 58' 27" (LT)
PI, NO CURVE	18+84.27	788,157.1235	1,487,493.5875	05° 47' 08" (RT)
PI, NO CURVE	19+04.66 BK	788,150.7297	1,487,512.9477	12° 53' 27" (LT)
	19+04.61 AH			
PI, NO CURVE	22+18.61	788,121.2609	1,487,825.5620	08° 00' 00" (LT)
PI, NO CURVE	23+35.40	788,126.5891	1,487,942.2294	15° 00' 00" (LT)
PI, NO CURVE	23+75.64	788,138.7678	1,487,980.5869	15° 00' 00" (RT)
PI, NO CURVE	23+95.64	788,139.6802	1,488,000.5661	21° 00' 00" (RT)
PI, NO CURVE	24+20.64	788,131.7952	1,488,024.2900	21° 00' 00" (LT)
PI, NO CURVE	24+94.99	788,135.1874	1,488,098.5666	15° 00' 00" (LT)
PI, NO CURVE	25+09.02 BK	788,139.4324	1,488,111.9363	23° 00' 00" (RT)
	25+10.04 AH			
PI, NO CURVE	29+25.00	788,100.4884	1,488,525.0665	11° 18' 39" (LT)
PI, NO CURVE	29+54.67	788,103.5510	1,488,554.5736	11° 24' 40" (RT)
PI, NO CURVE	29+65.62	788,102.5036	1,488,565.4803	34° 53' 59" (RT)
POT	30+60.33	788,041.1399	1,488,637.6205	NONE

NOTE: ALL ELEVATIONS ARE IN NAVD88 (USGS).

PROJECT BENCHMARKS

NO.	STATION	℄	OFFSET	SIDE	ELEVATION	DESCRIPTION
BM#1	9+61.15	PATH	36.00'	LT	912.37	"X" CUT IN TOP OF NORTHWEST CAP BOLT OF FIRE HYDRANT.
BM#2	30+00.66	PATH	9.17'	RT	934.04	CHISELED "□" IN THE NORTHWEST CORNER OF SIGNAL POLE BASE.
BM#3	19+08.58	PATH	71.24'	RT	929.00	CHISELED "□" IN THE NORTHWEST CORNER OF SIGN POST BASE. (FOUND)
BM#4	22+28.51	PATH	54.74'	RT	929.87	CHISELED "□" IN THE SOUTHEAST CORNER OF SIGN POST BASE. (FOUND)

PROJECT CONTROL DATA (GRID COORDINATES)

POINT NO.	DESCRIPTION	STATION	℄	OFFSET	SIDE	NORTHING	EASTING	ELEVATION
100	IRON PIN SET	29+89.52	PATH	49.49'	LT	788,124.7140	1,488,615.7500	933.35
101	IRON PIN SET	26+16.59	PATH	7.11'	RT	788,122.3521	1,488,217.3520	927.64
102	IRON PIN SET	22+52.19	PATH	3.97'	RT	788,118.8313	1,487,859.2856	931.15
103	IRON PIN SET	17+38.97	PATH	15.85'	RT	788,171.5276	1,487,350.2712	927.33
104	IRON PIN SET	13+44.86	PATH	12.76'	RT	788,218.4861	1,486,968.5041	918.19
105	MAG NAIL SET	10+31.60	PATH	72.41'	LT	788,256.2186	1,486,635.3346	912.05

N

HORIZONTAL SCALE IN FEET 0 25 50 100

CALCULATED CLP
CHECKED BMV

SCHEMATIC PLAN

MIA-EAST ASH STREET BIKEWAY

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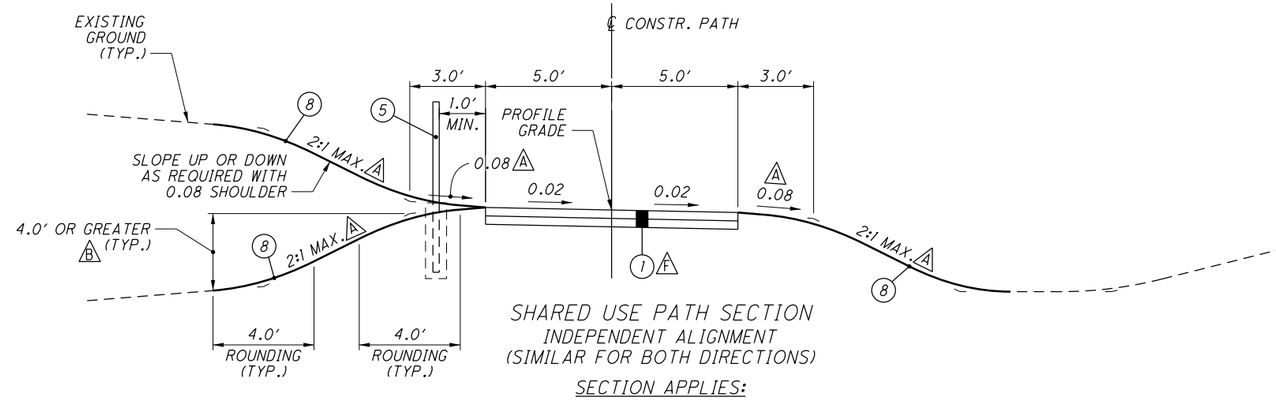
EXISTING LEGEND

- (A) 9" CONCRETE PAVMENT WITH 6" ASPHALT OVERLAY
- (B) 12" ASPHALT SHOULDER
- (C) APPROACH SLAB (T=15")
- (D) 6" AGGREGATE BASE
- (E) COMBINATION CURB AND GUTTER, TYPE 2
- (F) GUARDRAIL

LEGEND

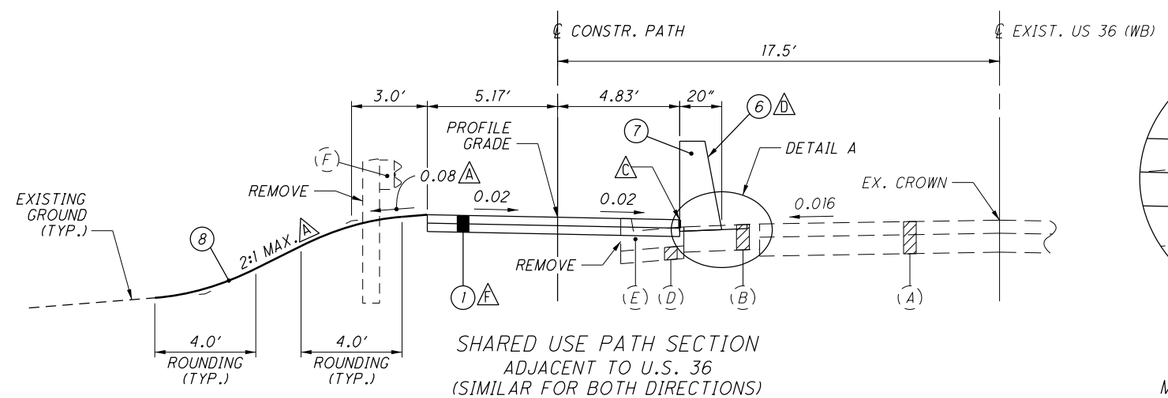
1. ITEM 608 - 4" CONCRETE WALK (F)
2. ITEM 202 - WEARING COURSE REMOVED (1 ½" DEPTH)
3. ITEM 441 - 1 ½" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
4. ITEM 407 - TACK COAT
5. ITEM 607 - FENCE, MISC.: DECORATIVE STEEL FENCE
6. ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
7. ITEM 622 - CONCRETE BARRIER, TYPE D
8. ITEM 659 - SEEDING AND MULCHING



SHARED USE PATH SECTION
INDEPENDENT ALIGNMENT
(SIMILAR FOR BOTH DIRECTIONS)

SECTION APPLIES:

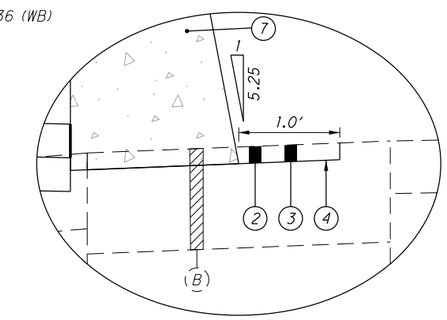
STA. 10+40.66 TO STA. 16+16.92
STA. 16+95.22 TO STA. 19+04.39
STA. 22+18.61 TO STA. 24+20.64
STA. 24+85.00 TO STA. 30+18.91



SHARED USE PATH SECTION
ADJACENT TO U.S. 36
(SIMILAR FOR BOTH DIRECTIONS)

SECTION APPLIES:

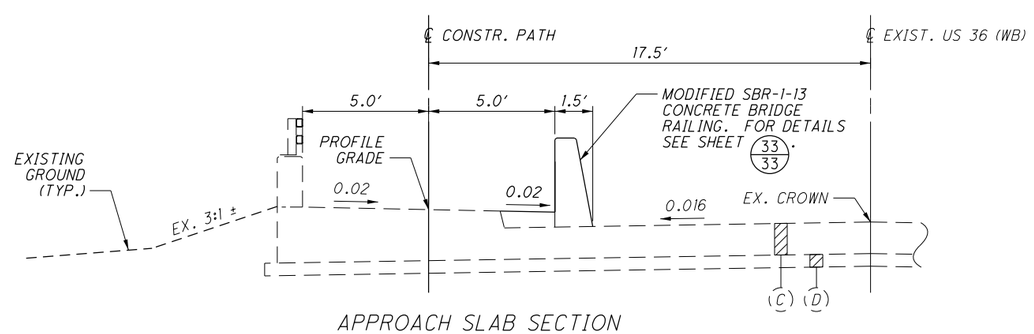
STA. 19+04.39 TO STA. 19+06.19
STA. 21+84.63 TO STA. 22+18.61



DETAIL A
MILL AND FILL AT CONCRETE BARRIER

SECTION APPLIES:

STA. 18+83.87 TO STA. 19+06.19
STA. 21+84.63 TO STA. 22+65.24



APPROACH SLAB SECTION
MIA-36-1176 L

SECTION APPLIES:

STA. 19+06.19 TO STA. 19+31.19
STA. 21+59.59 TO STA. 21+84.63

CODED NOTES:

(A) UNLESS OTHERWISE SHOWN ON CROSS SECTIONS.

(B) FOR 2:1 SLOPES OVER 4.0 FEET IN HEIGHT USE RAILING. FOR 3:1 SLOPES OVER 6.0 FEET IN HEIGHT USE RAILING.

(C) AS PER CMS 608.03.C, 1/2" THICK EXPANSION JOINT FILLER SHALL BE INSTALLED BETWEEN THE WALK AND ANY FIXED STRUCTURE THAT EXTENDS THE FULL DEPTH OF THE WALK. THIS INCLUDES THE CONCRETE BARRIER AND THE APPROACH SLAB. THE COST OF THIS IS INCLUDED IN THE COST OF THE CONCRETE WALK.

(D) SEAL ALL EXPOSED SURFACES OF THE CONCRETE BARRIER PER ITEM 512.

(F) AS PER CMS 608, 4" AGGREGATE BASE SHALL BE INCLUDED WITH THE 4" CONCRETE WALK

TYPICAL SECTIONS

MIA-EAST ASH STREET BIKEWAY

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ROUNDING

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

UTILITIES

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

TELEPHONE	AT&T OHIO (FORMERLY SBC) 3233 WOODMAN DRIVE DAYTON, OH 45420 TELEPHONE: (937) 296-3894 CONTACT: MR. JESSE WEAD TELECOMMUNICATION SPECIALIST EMAIL: jw1291@att.com
ELECTRIC	DAYTON POWER & LIGHT CO. 1900 DRYDEN RD. DAYTON, OH 45439 TELEPHONE: (937) 331-4521 CONTACT: MR. WILLIAM GOURLEY EMAIL: William.gourley@aes.com
ELECTRIC, SEWER, WATER, TRAFFIC SIGNALS	CITY OF PIQUA 201 W. WATER STREET PIQUA, OH 45356 TELEPHONE: (937) 778-2016 CONTACT: MS. AMY HAVENAR, CITY ENGINEER EMAIL: ahavenar@piquaoh.org
TRAFFIC SIGNALS	OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 7 1001 SAINT MARYS AVENUE SIDNEY, OH 45365 TELEPHONE: (937) 497-6897 CONTACT: JUSTIN YOH EMAIL: Justin.Yoh@dot.ohio.gov
GAS	VECTREN ENERGY DELIVERY 6500 CLYO ROAD CENTERVILLE, OH 45459 TELEPHONE: (937) 312-2533 CONTACT: DON SPECHT EMAIL: dspecht@vectren.com
CABLE	CHARTER COMMUNICATIONS 3691 TURNER ROAD DAYTON, OH 45415 TELEPHONE: (937) 425-8850 CONTACT: TIM KUSS EMAIL: Tim.Kuss@charter.com

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.

EXISTING PLANS

EXISTING PLANS MAY BE INSPECTED IN THE DISTRICT SEVEN OFFICE IN SIDNEY, OHIO.

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.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 2/33 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: VRS
MONUMENT TYPE: USED EXISTING R/W MONUMENTS

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 1988
GEOID: 2012A

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83 (2011)
ELLIPSOID: GRS 80
MAP PROJECTION: LAMBERT CONIC CONFORMAL
COORDINATE SYSTEM: OHIO SOUTH 3402
COMBINED SCALE FACTOR: GRID
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.

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. TREES AND STUMPS UNDER 12" IN DIAMETER ARE NOT QUANTIFIED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	0	0	0
30"	0	0	0
48"	0	0	0
60"	0	0	0

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

FENCE LENGTHS

THE LENGTHS OF FENCE SHOWN IN THE PLANS ARE HORIZONTAL DIMENSIONS. MEASUREMENTS OF THE FINAL QUANTITIES WILL BE IN ACCORDANCE WITH ITEM 607.

ITEM 202 - GUARDRAIL REMOVED, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEM 202, PATCH AND RESEAL THE BRIDGE CONCRETE PARAPET WHERE THE BRIDGE TERMINAL ASSEMBLY HAS BEEN REMOVED.

PAYMENT FOR ALL ASSOCIATED LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 202 - GUARDRAIL REMOVED, AS PER PLAN.

SEEDING AND MULCHING

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

659, TOPSOIL 402 CU. YD.

659, SEEDING AND MULCHING 3,620 SQ. YD.

659, REPAIR SEEDING AND MULCHING 181 SQ. YD

659, INTER-SEEDING 181 SQ. YD.

659, COMMERCIAL FERTILIZER 0.49 TON

659, LIME 0.75 ACRES

659, WATER 20 M. GAL.

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.

PIPE CONNECTIONS TO CORRUGATED METAL STRUCTURES

CONNECTIONS OF PROPOSED LONGITUDINAL DRAINAGE TO CORRUGATED METAL STRUCTURES SHALL BE MADE BY MEANS OF A SHOP FABRICATED OR FIELD WELDED STUB ON THE STRUCTURE. THE STUB SHALL MEET THE REQUIREMENTS OF 707 AND HAVE A MINIMUM LENGTH OF 2 FEET AND A MINIMUM WALL THICKNESS OF 0.064 INCHES.

THE LOCATION AND ELEVATION OF THE STUB ARE TO BE CONSIDERED APPROXIMATE AND MAY BE ADJUSTED BY THE ENGINEER TO AVOID CUTTING THROUGH JOINTS IN THE STRUCTURE.

THE FIELD WELDED JOINT, IF USED, SHALL BE THOROUGHLY CLEANED AND REGALVANIZED OR OTHERWISE SUITABLY REPAIRED. WELDING SHALL MEET THE REQUIREMENTS OF 513.21.

A MASONRY COLLAR, AS PER STANDARD DRAWING DM-1.1, WILL BE REQUIRED TO CONNECT THE LONGITUDINAL DRAINAGE TO THE STUB, WHEN PIPE OTHER THAN CORRUGATED METAL IS PROVIDED FOR THE LONGITUDINAL DRAINAGE.

PAYMENT FOR CUTTING INTO THE STRUCTURE AND PROVIDING THE CONNECTION DESCRIBED, SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 611 OR 522.

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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.

PULL BOX DRAIN OUTLETS

ALL PULL BOX DRAINS DISTURBED BY THE WORK, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS. FURNISH EITHER AN OPEN CONTINUANCE OR AN UNOBSTRUCTED CONTINUANCE BY CONNECTING A CONDUIT INTO A DRAINAGE STRUCTURE OR OUTLETTING INTO THE ROADWAY DITCH. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEEDED CONDUIT TO REPLACE OR EXTEND AN EXISTING UNDER DRAIN WILL BE DETERMINED BY THE ENGINEER.

PAYMENT FOR ANIMAL GUARDS AND ANY NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS. PULL BOX DRAINS SHALL BE IN ACCORDANCE WITH C&MS 611 AND SCD HL-30.11.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

611, 4" CONDUIT, TYPE E, FOR UNDERDRAIN OUTLETS
200 FT.

611, 6" CONDUIT, TYPE E, FOR UNDERDRAIN OUTLETS
200 FT.

ITEM 625 - LIGHTING, MISC.: MANHOLE ADJUSTED TO GRADE

THE CONTRACTOR SHALL NOTIFY THE CITY OF PIQUA, PIQUA POWER SYSTEM OF WORK BEING DONE ON PIQUA FACILITIES.

THE CONTRACTOR SHALL ADJUST THE TOP OF CASTING TO GRADE AS SPECIFIED IN CMS SECTION 611.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS "ITEM 625 - LIGHTING, MISC.: MANHOLE ADJUSTED TO GRADE WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ENVIRONMENTAL COMMITMENTS

THE CONTRACTOR MUST MAINTAIN ACCESS TO CENTRE COURT AT ALL TIMES.

NO EQUIPMENT OR STAGING IS PERMITTED WITHIN THE HOLLOW PARK.

PORTIONS OF THE PROJECT ARE LOCATED WITHIN THE BOUNDARIES OF A DESIGNATED SOLE SOURCE AQUIFER AND THE SOURCE WATER PROTECTION AREA OF THE KNIGHTS INN PUBLIC WATER SUPPLY. 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 PIQUA FIRE DEPARTMENT (937-778-2013), LOCAL EMERGENCY COORDINATOR (937-339-6400) AND THE OEPA (1-800-282-9378) MUST BE CONTACTED WITHIN 30 MINUTES OF KNOWLEDGE OF THE RELEASE.

ITEM 607 - FENCE, MISC.: DECORATIVE STEEL FENCE

IN ADDITION TO THE REQUIREMENTS IN 607, THE FOLLOWING SHALL BE REQUIRED FOR THE MANUFACTURE AND INSTALLATION OF THE PROPOSED FENCE:

THE FENCE INSTALLED SHALL BE A COMMERCIAL GRADE DECORATIVE STEEL FENCE. THE FENCE SHALL BE ONE OF THE FOLLOWING OR AN APPROVED EQUAL:

S4 - SAYBROOK
SPECRAIL
P.O. BOX 6308
333 WELTON STREET
HAMDEN, CT 06517
(800) 243-6256
(203) 248-6346

MONTAGE II MAJESTIC 3-RAIL
AMERISTAR FENCE PRODUCTS
1555 N. MINGO
TULSA, OK 74116
(888) 333-3422

CLASSIC PREMIER, UNIVERSAL 3-RAIL
MASTER HALCO
ONE CITY BLVD. WEST
SUITE 900
ORANGE, CA 92868
(800) 229-5615
(718) 385-0091

FENCE SHALL MEET AS A MINIMUM, THE REQUIREMENTS FOR INDUSTRIAL WEIGHT FENCES UNDER ASTM F2408.

MATERIALS: ASTM A-513, WITH A MINIMUM YIELD STRENGTH OF 45,000 PSI. MINIMUM G60 ZINC COATING, 0.60 OZ/SF.

POSTS: SQUARE TUBULAR MEMBERS.

RAIL: MINIMUM 14 GAUGE MEMBERS.

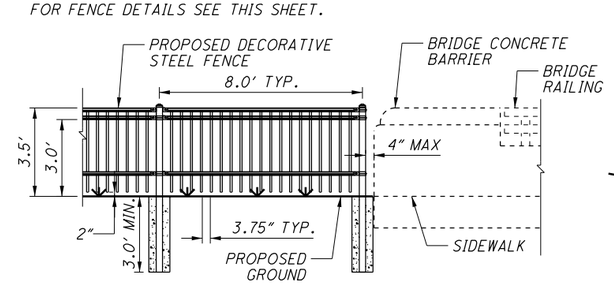
PICKETS: SQUARE TUBULAR MEMBERS, SPACED AT 4 INCHES CENTER TO CENTER MAXIMUM.

COLOR: BLACK.

FABRICATION AND INSTALLATION: FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS EXCEPT AS NOTED IN THESE PLANS.

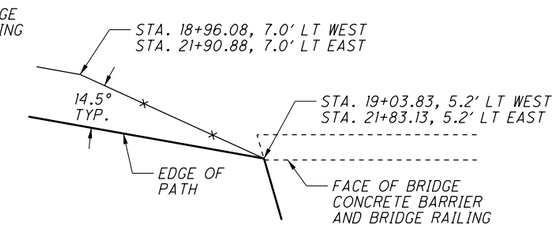
METHOD OF MEASUREMENT AND BASIS OF PAYMENT: ALL MATERIAL, LABOR, AND EQUIPMENT COSTS ASSOCIATED WITH THE FABRICATION AND INSTALLATION OF THE FENCE SHALL BE INCLUDED IN THE LINEAR FOOT UNIT BID COST FOR ITEM 607 - FENCE, MISC.: DECORATIVE STEEL FENCE. THIS SHALL INCLUDE BUT IS NOT LIMITED TO ALL SURFACE PREPARATION, GALVANIZATION, PAINTING, DELIVERY, AUGERING POST HOLES, SETTING IN CONCRETE, AND ALL REQUIRED CONCRETE, SLEEVES, BOLTS, STUDS, NUTS, WASHERS, REMOVABLE PINS, AND OTHER CONNECTIONS.

FOR FENCE DETAILS SEE THIS SHEET.



FENCE ELEVATION

WEST (REAR) ABUTMENT SHOWN,
EAST (FORWARD) ABUTMENT SIMILAR



FENCE PLAN

WEST (REAR) ABUTMENT SHOWN,
EAST (FORWARD) ABUTMENT SIMILAR

COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR SHOULD BE AWARE OF THE FOLLOWING PROJECTS ADJACENT TO OR WITHIN THE PROJECT LIMITS THAT IS EITHER UNDER CONTRACT OR PLANNED TO BE UNDER CONTRACT DURING THIS PROJECT. REFER TO CMS 105.08.

MIA-36-11.34, PID 95925

STATUS: 2-15-18 LETTING DATE

ESTIMATED CONSTRUCTION COMPLETION DATE: 8-31-18

DESCRIPTION: REHABILITATION OF THE CONCRETE DECK AND ABUTMENTS OF THE BRIDGE OVER THE GREAT MIAMI RIVER INCLUDING LANE RECONFIGURATIONS TO INCLUDE A SHARED USE PATH.

D06-STW-CCTV FY17, PID 104135

STATUS: SOLD

ESTIMATED CONSTRUCTION COMPLETION DATE: 5-31-18

DESCRIPTION: INSTALLATION OF CCTV CAMERAS AT VARIOUS FREEWAY/EXPRESSWAY INTERCHANGES STATEWIDE.

CALCULATED CLP
CHECKED BMV

GENERAL NOTES

MIA-EAST ASH STREET BIKEWAY

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ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF ONE LANE OF THROUGH TRAFFIC IN THE WESTBOUND DIRECTION OF US 36 (EAST ASH STREET) SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT.

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.

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 OF THE TYPE AND LOCATION SHOWN IN THE PLANS.

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.

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 2 M. GAL

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 40 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.

TRAFFIC SIGNAL COORDINATION

THE CONTRACTOR SHALL CONTACT THE THE ODOT DISTRICT 7 TRAFFIC OPERATIONS ENGINEER JUSTIN YOH AT 937-497-6897 (Justin.Yoh@dot.ohio.gov) A WEEK IN ADVANCE OF A MAINTENANCE OF TRAFFIC PHASE CHANGE.

THE CONTRACTOR SHALL OBSERVE THE TRAFFIC ON THE NORTHBOUND EXIT RAMP FROM IR 75 TO US 36 DURING MAINTENANCE OF TRAFFIC OPERATIONS. IF A QUEUE IS EXTENDING BEYOND THE IR 75 EXIT RAMP, THE ODOT DISTRICT 7 TRAFFIC OPERATIONS ENGINEER JUSTIN YOH AT 937-497-6897 AND THE CITY OF PIQUA TRAFFIC ENGINEER AT 937-778-2044 SHALL BE CONTACTED AND THEY WILL COORDINATE WITH THE CONTRACTOR TO OPTIMIZE THE SIGNAL TIMING.

PAYMENT FOR ALL WORK LISTED ABOVE SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

MAINTAINING PEDESTRIAN TRAFFIC

PROVIDE A 4' MINIMUM WIDTH AND ACCESS TO PEDESTRIAN PUSH BUTTONS AT ALL TIMES BY USE OF THE EXISTING PAVEMENT / WALK, THE COMPLETED WALK, ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC AND ITEM 615 ROADS FOR MAINTAINING TRAFFIC. WHERE MAINTAINING ACCESS AT CURB RAMPS AND PUSH BUTTONS SEE SIDEWALK CLOSURE DETAIL (8/33).

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR MAINTAINING PEDESTRIAN TRAFFIC.

ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B 50 SQ. YD.

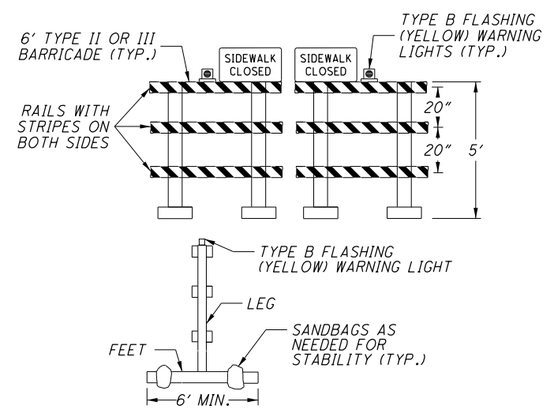
ITEM 615, ROADS FOR MAINTAINING TRAFFIC LUMP

SIDEWALK CLOSURE

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN R9-9-30 "SIDEWALK CLOSED" SIGNS OR SIGNS AS SPECIFIED IN THE PLANS, SIGN SUPPORTS, BARRICADES AND LIGHTS AT THE POINT OF CLOSURE FULLY BLOCKING THE SIDEWALK, UNTIL CONSTRUCTION OF THE SHARED USE PATH IS COMPLETE.

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.

TYPE 3 BARRICADE DETAIL (NOT TO SCALE)



SEQUENCE OF CONSTRUCTION

PHASE 1

1. PLACE TEMPORARY TRAFFIC CONTROL NECESSARY TO MAINTAIN ONE THROUGH LANE AND THE LEFT TURN LANE ON THE MIA-36-11.76L BRIDGE AND US 36 WESTBOUND (EAST ASH STREET) AND CLOSE THE OUTSIDE CURB LANE AS DETAILED IN THE PHASE 1 PLAN.

2. MAINTAIN PEDESTRIAN TRAFFIC ACROSS THE BRIDGE.

3. CONSTRUCT THE BRIDGE WORK.

PHASE 2

1. WHEN PHASE 1 CONSTRUCTION IS COMPLETE PLACE TEMPORARY TRAFFIC CONTROL NECESSARY TO CLOSE THE SIDEWALK BETWEEN SCOTT DRIVE AND LOONEY ROAD AND TO MAINTAIN ONE THROUGH LANE OF TRAFFIC ON US 36 WESTBOUND (EAST ASH STREET) AS DETAILED IN THE PHASE 2 PLAN.

2. MAINTAIN PEDESTRIAN TRAFFIC ALONG SHOULDERS AND A THROUGH LANE OF US 36.

3. CONSTRUCT THE PATH AND ROADWAY WORK.

PHASE 3

1. WHEN PHASE 2 CONSTRUCTION IS COMPLETE MAINTAIN ONE THROUGH LANE OF TRAFFIC ON US 36 WESTBOUND (EAST ASH STREET), REMOVE EXISTING PAVEMENT MARKINGS AND PLACE PERMANENT PAVEMENT MARKINGS USING FLAGGERS.

PHASE 4

1. WHEN PHASE 3 CONSTRUCTION IS COMPLETE OPEN ALL LANES OF TRAFFIC ON US 36 WESTBOUND (EAST ASH STREET).

2. COMPLETE ALL REMAINING ITEMS.

MAINTENANCE OF TRAFFIC SUBSUMMARY

REF NO.	SHEET NO.	STATION	TO	STATION	SIDE	614 WORK ZONE EDGE LINE, CLASS I, 740.06, TYPE I MILE		
EL-1	7	620+50	TO	625+90	LT	0.10		
EL-2	7	626+50	TO	630+43	LT	0.07		
EL-3	8	618+60	TO	625+90	LT	0.14		
EL-4	8	626+50	TO	631+50	LT	0.10		
TOTALS CARRIED TO GENERAL SUMMARY						0.41		

CALCULATED CLP
CHECKED ZLS

MAINTENANCE OF TRAFFIC GENERAL NOTES AND SUBSUMMARY

MIA-EAST ASH STREET BIKEWAY

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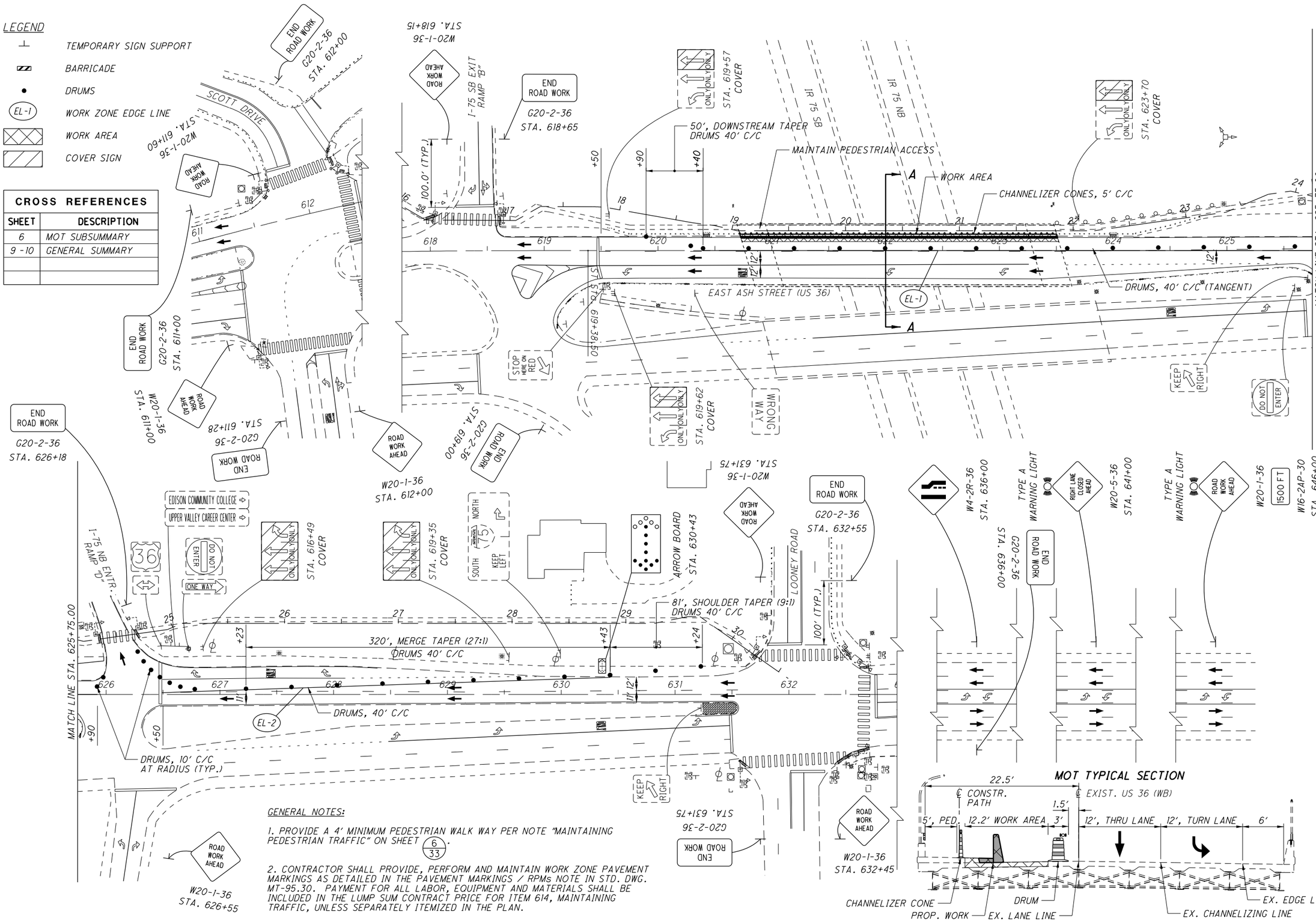
LEGEND

- TEMPORARY SIGN SUPPORT
- BARRICADE
- DRUMS
- EL-1 WORK ZONE EDGE LINE
- WORK AREA
- COVER SIGN

CROSS REFERENCES	
SHEET	DESCRIPTION
6	MOT SUBSUMMARY
9 -10	GENERAL SUMMARY



GENERAL NOTES:

1. PROVIDE A 4' MINIMUM PEDESTRIAN WALK WAY PER NOTE "MAINTAINING PEDESTRIAN TRAFFIC" ON SHEET 6/33.

2. CONTRACTOR SHALL PROVIDE, PERFORM AND MAINTAIN WORK ZONE PAVEMENT MARKINGS AS DETAILED IN THE PAVEMENT MARKINGS / RPMs NOTE IN STD. DWG. MT-95.30. 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.

HORIZONTAL SCALE IN FEET 0 20 40 80

CALCULATED CLP
CHECKED BMV

MAINTENANCE OF TRAFFIC PLAN
PHASE 1

MIA-EAST ASH STREET BIKEWAY

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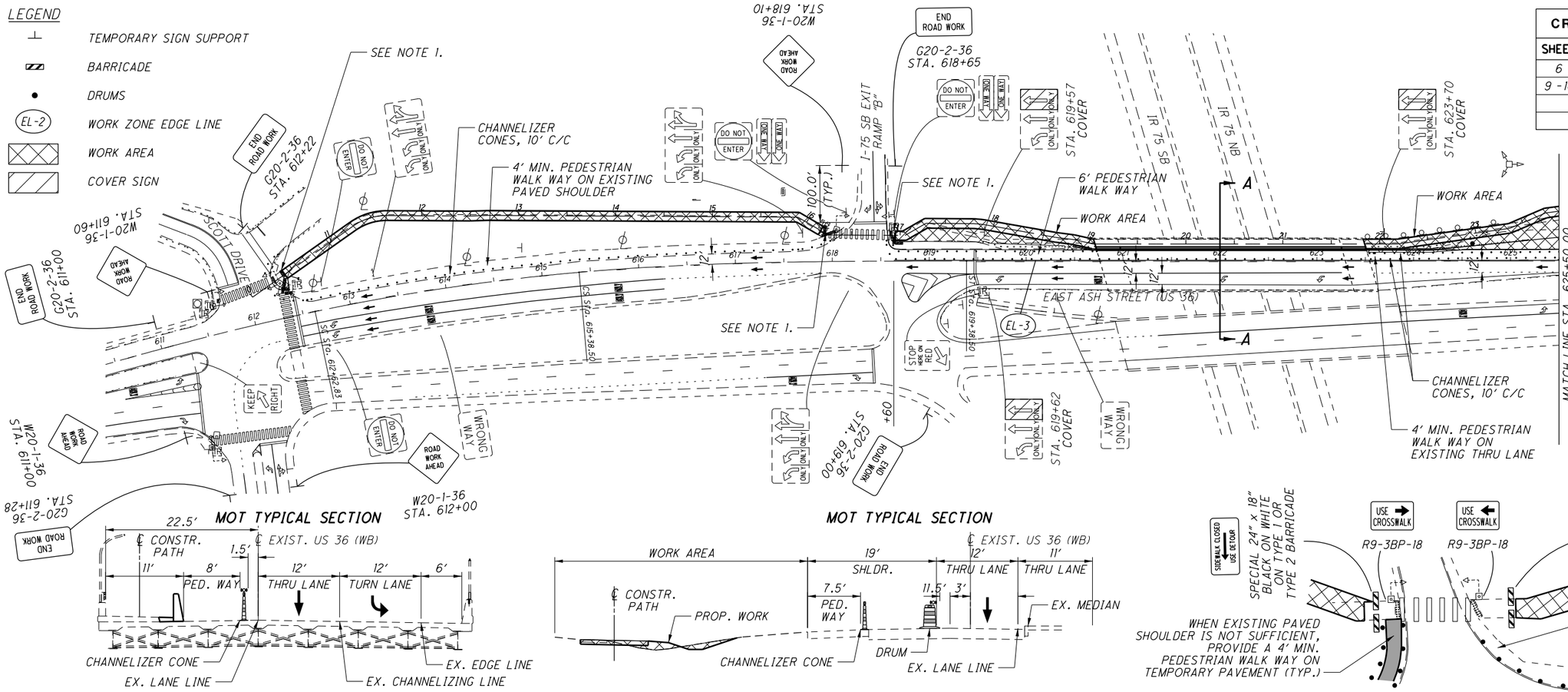
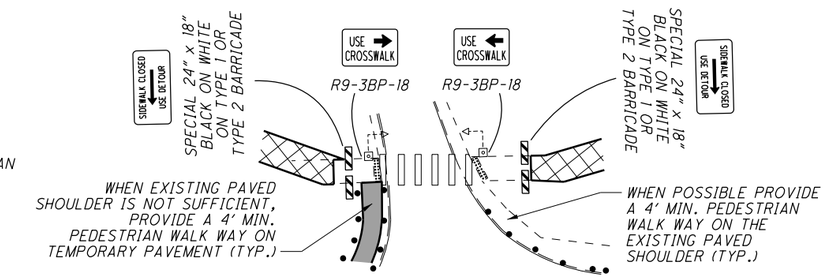
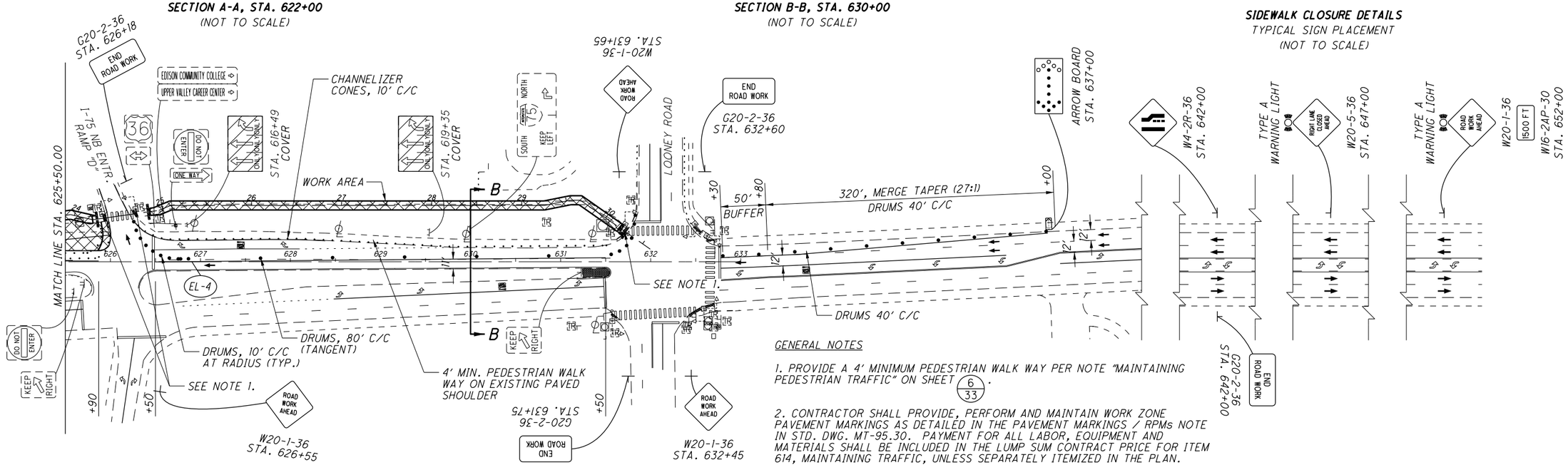


SECTION A-A, STA. 622+00
(NOT TO SCALE)

SECTION B-B, STA. 630+00
(NOT TO SCALE)



SIDEWALK CLOSURE DETAILS
TYPICAL SIGN PLACEMENT
(NOT TO SCALE)



GENERAL NOTES

1. PROVIDE A 4' MINIMUM PEDESTRIAN WALK WAY PER NOTE "MAINTAINING PEDESTRIAN TRAFFIC" ON SHEET 6/33.

2. CONTRACTOR SHALL PROVIDE, PERFORM AND MAINTAIN WORK ZONE PAVEMENT MARKINGS AS DETAILED IN THE PAVEMENT MARKINGS / RPMs NOTE IN STD. DWG. MT-95.30. 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.

CROSS REFERENCES	
SHEET	DESCRIPTION
6	MOT SUBSUMMARY
9 - 10	GENERAL SUMMARY

HORIZONTAL SCALE IN FEET 0 30 60 120

CALCULATED CLP
CHECKED BMV

MAINTENANCE OF TRAFFIC PLAN
PHASE 2

MIA-EAST ASH STREET BIKEWAY

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SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
OFFICE CALCS.								4	5	11	27	30	01/NH3/PV						
																		ROADWAY	
													LS	201	11000	LS		CLEARING AND GRUBBING	
148													148	202	23010	148	SY	PAVEMENT REMOVED, ASPHALT	
26													26	202	23500	26	SY	WEARING COURSE REMOVED	
6,513													6,513	202	30000	6,513	SF	WALK REMOVED	
										153			153	202	32500	153	FT	CURB AND GUTTER REMOVED	
										29			29	202	35100	29	FT	PIPE REMOVED, 24" AND UNDER	
										145			145	202	38001	145	FT	GUARDRAIL REMOVED, AS PER PLAN	4
										1			1	202	58100	1	EACH	CATCH BASIN REMOVED	
											268		268	203	10000	268	CY	EXCAVATION	
											335		335	203	20000	335	CY	EMBANKMENT	
										126			126	512	10100	126	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
										12.5			12.5	606	15050	12.5	FT	GUARDRAIL, TYPE MGS	
										1			1	606	26150	1	EACH	ANCHOR ASSEMBLY, MGS TYPE E	
										1			1	606	35002	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
										64			64	607	98000	64	FT	FENCE, MISC.: DECORATIVE STEEL FENCE	5
15,531													15,531	608	10000	15,531	SF	4" CONCRETE WALK	
										80			80	608	52000	80	SF	CURB RAMP	
										26			26	608	53020	26	SF	DETECTABLE WARNING	
										91			91	622	24000	91	FT	CONCRETE BARRIER, TYPE D	
										1			1	622	25000	1	EACH	CONCRETE BARRIER END SECTION, TYPE D	
																		EROSION CONTROL	
								402					402	659	00300	402	CY	TOPSOIL	
								3,620					3,620	659	10000	3,620	SY	SEEDING AND MULCHING	
								181					181	659	14000	181	SY	REPAIR SEEDING AND MULCHING	
								181					181	659	15000	181	SY	INTER-SEEDING	
								0.49					0.49	659	20000	0.49	TON	COMMERCIAL FERTILIZER	
								0.75					0.75	659	31000	0.75	ACRE	LIME	
								20					20	659	35000	20	MGAL	WATER	
													15,000	832	30000	15,000	EACH	EROSION CONTROL	
																		DRAINAGE	
										1.0			1	602	20000	1.0	CY	CONCRETE MASONRY	
									200				200	611	00400	200	FT	4" CONDUIT, TYPE E	
									200				200	611	01400	200	FT	6" CONDUIT, TYPE E	
										10			10	611	04400	10	FT	12" CONDUIT, TYPE B	
										38			38	611	04600	38	FT	12" CONDUIT, TYPE C	
										10			10	611	09100	10	FT	21" CONDUIT, TYPE C	
										1			1	611	98370	1	EACH	CATCH BASIN. NO. 6	
										1			1	611	98700	1	EACH	INLET, SIDE DITCH	
																		PAVEMENT	
1													2	407	10000	2	GAL	TACK COAT	
1													1	441	50000	1	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
																		LIGHTING	
										3			3	625	31510	3	EACH	PULL BOX REMOVED	
										1			1	625	98000	1	EACH	LIGHTING, MISC.: MANHOLE ADJUSTED TO GRADE	5
																		TRAFFIC CONTROL	
												4	4	626	00102	4	EACH	BARRIER REFLECTOR, TYPE 1, ONE-WAY	
												3	3	626	00110	3	EACH	BARRIER REFLECTOR, TYPE 2, ONE-WAY	
												26	26	630	03100	26	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
												1	1	630	85100	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
												2	2	630	86002	2	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
												0.24	0.24	644	00100	0.24	MILE	EDGE LINE, 4"	
												0.12	0.12	644	00200	0.12	MILE	LANE LINE, 4"	
												390	390	644	00400	390	FT	CHANNELIZING LINE, 8"	
												3	3	644	01300	3	EACH	LANE ARROW	
												216	216	644	01500	216	FT	DOTTED LINE, 4"	
												2,421	2,421	644	30000	2,421	FT	REMOVAL OF PAVEMENT MARKING	
												3	3	644	30020	3	EACH	REMOVAL OF PAVEMENT MARKING	

CALCULATED CLP
CHECKED BMV

GENERAL SUMMARY

MIA-EAST ASH STREET BIKEWAY

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SHEET NUM. OFFICE CALCS.												6	PART. 01/NH3/PV	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
																		STRUCTURE OVER 20 FOOT SPAN (MIA-36-1176 L)	
													10,425	509	10000	10,425	LB	EPOXY COATED REINFORCING STEEL	32
													816	510	10000	816	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	32
													60	511	34449	60	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN	32
													62	512	10050	62	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	32
													259	512	10100	259	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	32
													12	516	13600	12	SF	1" PREFORMED EXPANSION JOINT FILLER	32
													129	SPECIAL	53000800	129	SY	STRUCTURES: BRIDGE DECK SURFACE PREPARATION	32
																		MAINTENANCE OF TRAFFIC	
												40	40	614	11110	40	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
												0.41	0.41	614	22200	0.41	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 740.06, TYPE I	
													LS	615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
												50	50	615	25000	50	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	
												2	2	616	10000	2	MGAL	WATER	
																		INCIDENTALS	
													LS	614	11000	LS		MAINTAINING TRAFFIC	
													LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
													LS	624	10000	LS		MOBILIZATION	

CALCULATED CLP
CHECKED BMV

GENERAL SUMMARY

MIA-EAST ASH STREET BIKEWAY

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REF NO.	SHEET NO.	STATION TO STATION			SIDE	202 CURB AND GUTTER REMOVED	202 PIPE REMOVED, 24" AND UNDER	202 GUARDRAIL REMOVED, AS PER PLAN	202 CATCH BASIN REMOVED	512 SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	606 GUARDRAIL, TYPE MGS	606 ANCHOR ASSEMBLY, MGS TYPE E	606 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	607 FENCE, MISC.: DECORATIVE STEEL FENCE	608 CURB RAMP	608 DETECTABLE WARNING	622 CONCRETE BARRIER, TYPE D	622 CONCRETE BARRIER END SECTION, TYPE D	602 CONCRETE MASONRY	611 12" CONDUIT, TYPE B	611 12" CONDUIT, TYPE C	611 21" CONDUIT, TYPE C	611 CATCH BASIN, NO. 6	611 INLET, SIDE DITCH	625 PULL BOX REMOVED	625 LIGHTING, MISC.: MANHOLE ADJUSTED TO GRADE
						FT	FT	FT	EACH	SY	FT	EACH	EACH	FT	SF	SF	FT	EACH	CY	FT	FT	FT	EACH	EACH	EACH	EACH
R1	13	15+76	TO	15+90	LT/RT		22																			
R2	13	18+84	TO	19+07	RT	24																				
R3	14	21+85	TO	23+13	RT	128																				
R4	14	21+83	TO	23+27	LT			145																		
R5	15	29+25			RT																			1		
R6	15	30+05			LT																			1		
R7	15	30+12			LT																			1		
F1	13	18+48	TO	19+04	LT									56												
F2	14	21+83	TO	21+91	LT									8												
CR1	12	10+31	TO	10+35	RT										40	8										
CR2	13	16+17	TO	16+26	RT										24	14										
CR3	15	30+19	TO	30+26	RT	1									16	4										
D1	12	10+50			RT														0.2		8					
D2	14	22+35			RT		7		1											10			1	1		
D3	14	25+10	TO	25+62	LT/RT														0.4		30					
D4	15	29+59	TO	29+76	RT														0.4			10				
CB1	13	18+84	TO	19+08	RT					35							25									
CB2	14	21+86	TO	22+65	RT					91							66	1								
GR1	14	22+65.24	TO	23+47.67	RT						12.5	1	1													
L1	14	25+07			RT																					1

CALCULATED CLP
CHECKED BMV

SUBSUMMARY

MIA-EAST ASH STREET BIKEWAY

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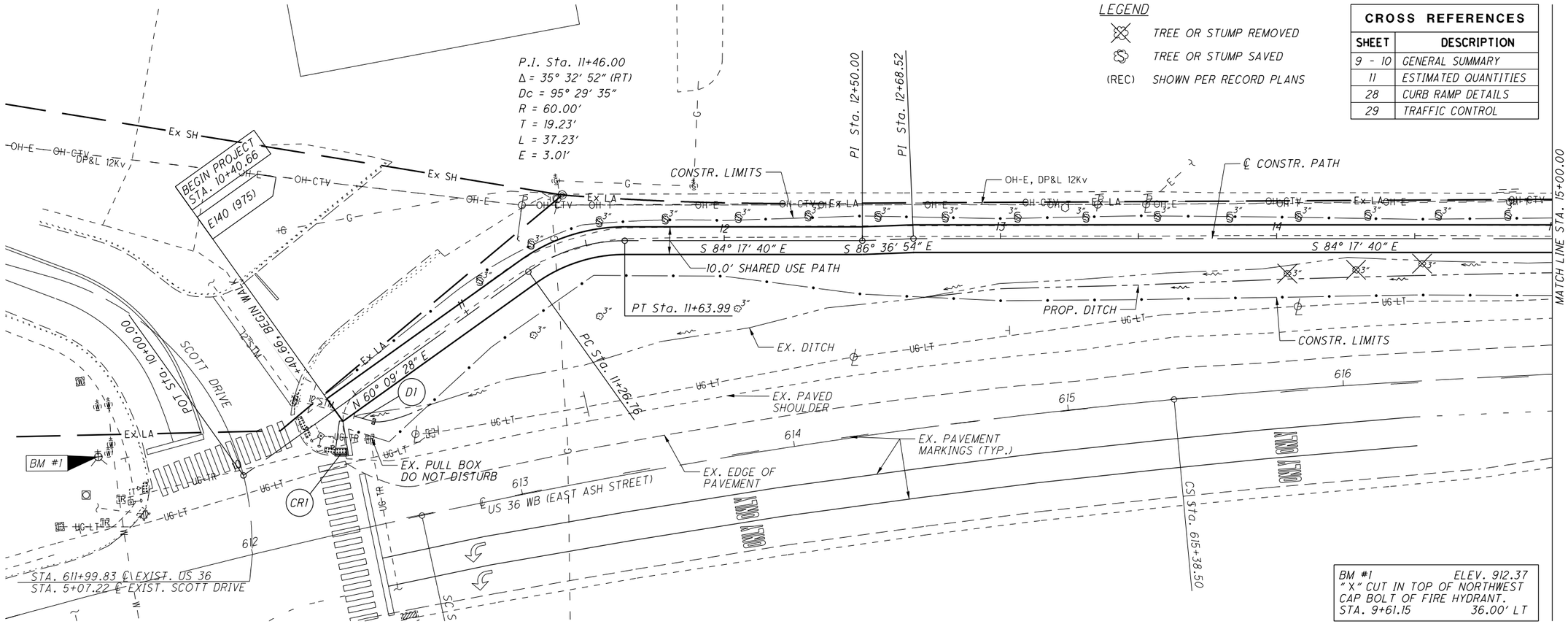
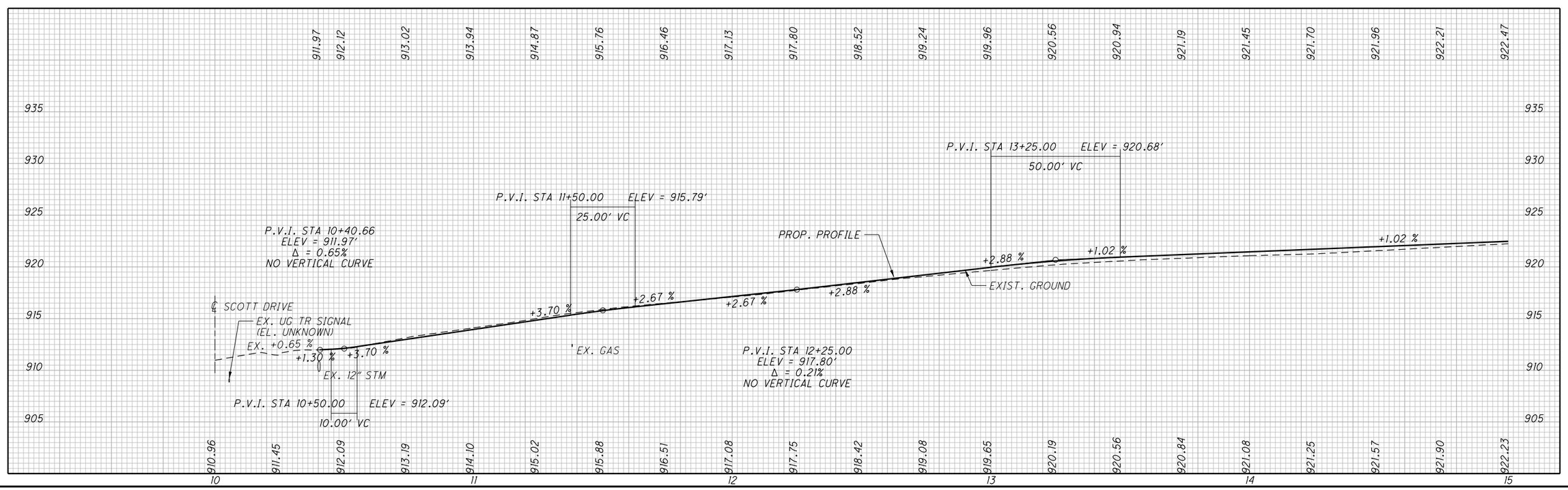


CROSS REFERENCES	
SHEET	DESCRIPTION
9 - 10	GENERAL SUMMARY
11	ESTIMATED QUANTITIES
28	CURB RAMP DETAILS
29	TRAFFIC CONTROL



HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED ZLS CHECKED CLP

PLAN AND PROFILE
STA. 10+00.00 TO STA. 15+00.00

MIA-EAST ASH STREET BIKEWAY

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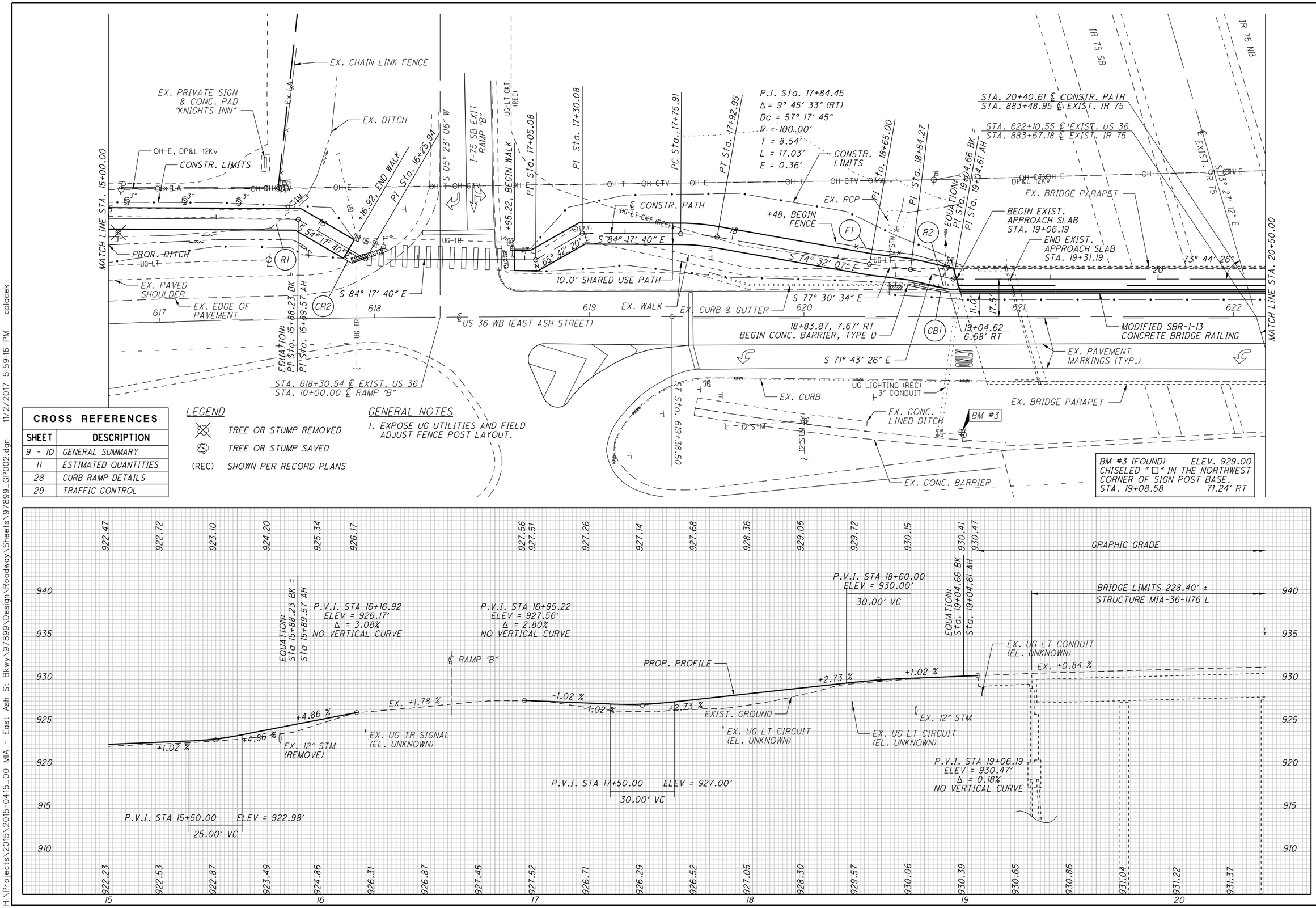

CROSS REFERENCES	
SHEET	DESCRIPTION
9 - 10	GENERAL SUMMARY
11	ESTIMATED QUANTITIES
28	CURB RAMP DETAILS
29	TRAFFIC CONTROL

LEGEND

- TREE OR STUMP REMOVED
- TREE OR STUMP SAVED
- (REC) SHOWN PER RECORD PLANS

GENERAL NOTES

1. EXPOSE UG UTILITIES AND FIELD ADJUST FENCE POST LAYOUT.

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED ZLS
CHECKED CLP

PLAN AND PROFILE
STA. 15+00.00 TO STA. 20+50.00

MIA-EAST ASH STREET BIKEWAY

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CROSS REFERENCES	
SHEET	DESCRIPTION
9 - 10	GENERAL SUMMARY
11	ESTIMATED QUANTITIES
28	CURB RAMP DETAILS
29	TRAFFIC CONTROL

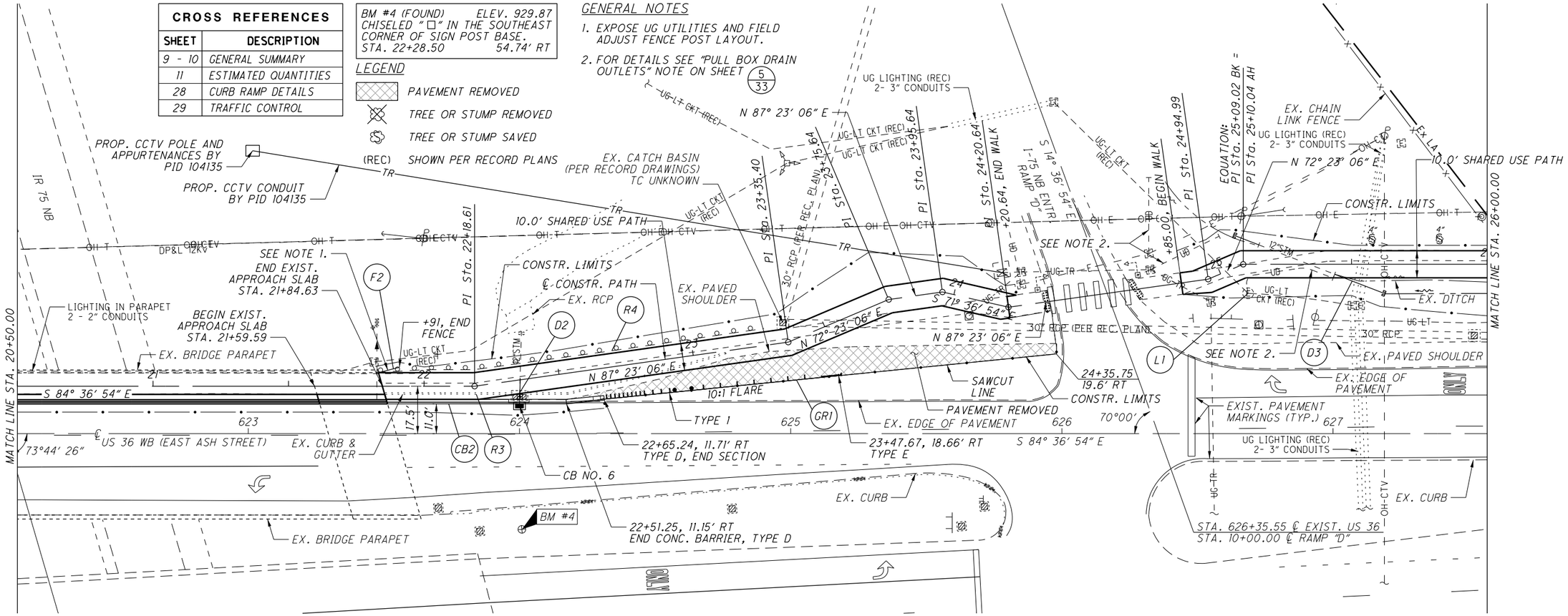
BM #4 (FOUND) ELEV. 929.87
CHISELED "□" IN THE SOUTHEAST CORNER OF SIGN POST BASE.
STA. 22+28.50 54.74' RT

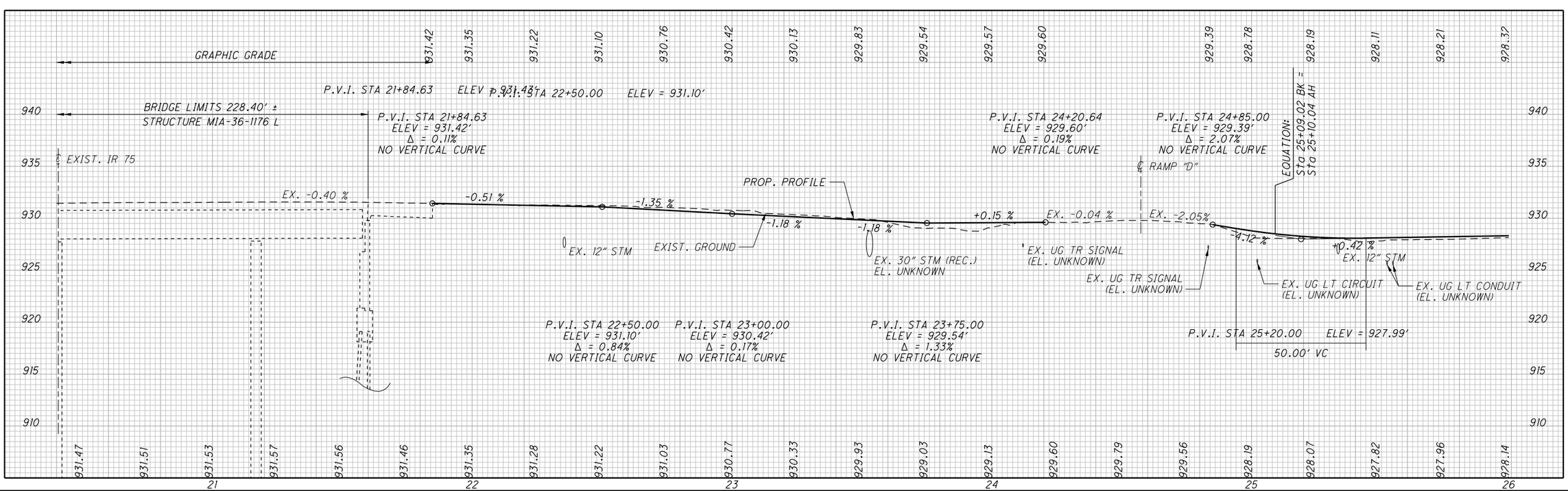
LEGEND

PAVEMENT REMOVED
TREE OR STUMP REMOVED
TREE OR STUMP SAVED
(REC) SHOWN PER RECORD PLANS

GENERAL NOTES

1. EXPOSE UG UTILITIES AND FIELD ADJUST FENCE POST LAYOUT.
2. FOR DETAILS SEE "PULL BOX DRAIN OUTLETS" NOTE ON SHEET 5/33





N

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED ZLS
CHECKED CLP

PLAN AND PROFILE
STA. 20+50.00 TO STA. 26+00.00

MIA-EAST ASH STREET BIKEWAY

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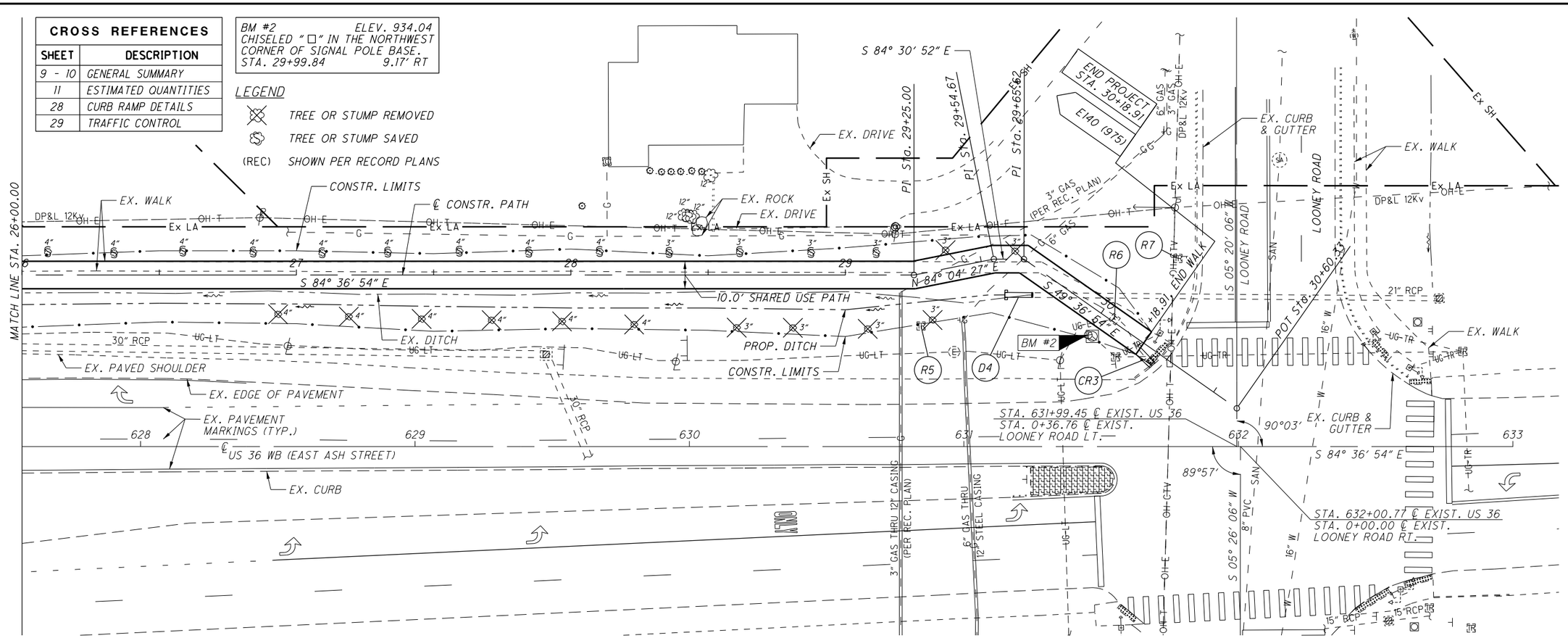
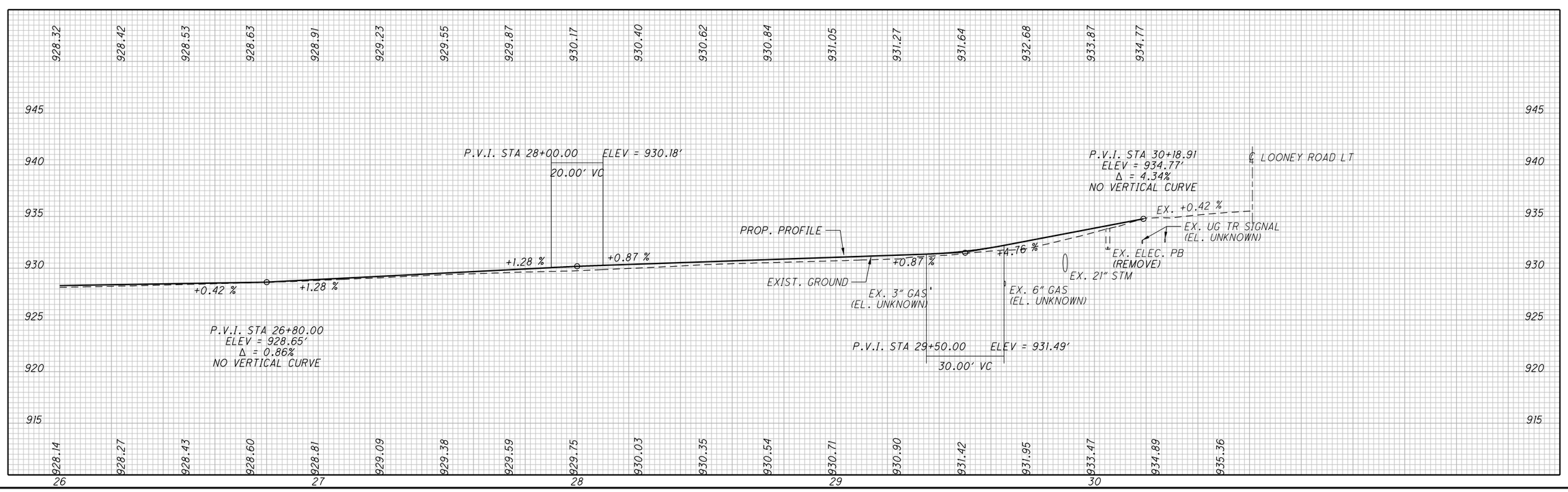
CROSS REFERENCES	
SHEET	DESCRIPTION
9 - 10	GENERAL SUMMARY
11	ESTIMATED QUANTITIES
28	CURB RAMP DETAILS
29	TRAFFIC CONTROL

BM #2 ELEV. 934.04
CHISELED "□" IN THE NORTHWEST CORNER OF SIGNAL POLE BASE.
STA. 29+99.84 9.17' RT

LEGEND

- TREE OR STUMP REMOVED
- TREE OR STUMP SAVED
- (REC) SHOWN PER RECORD PLANS





HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED ZLS
CHECKED CLP

PLAN AND PROFILE
STA. 26+00.00 TO STA. 30+60.33

MIA-EAST ASH STREET BIKEWAY

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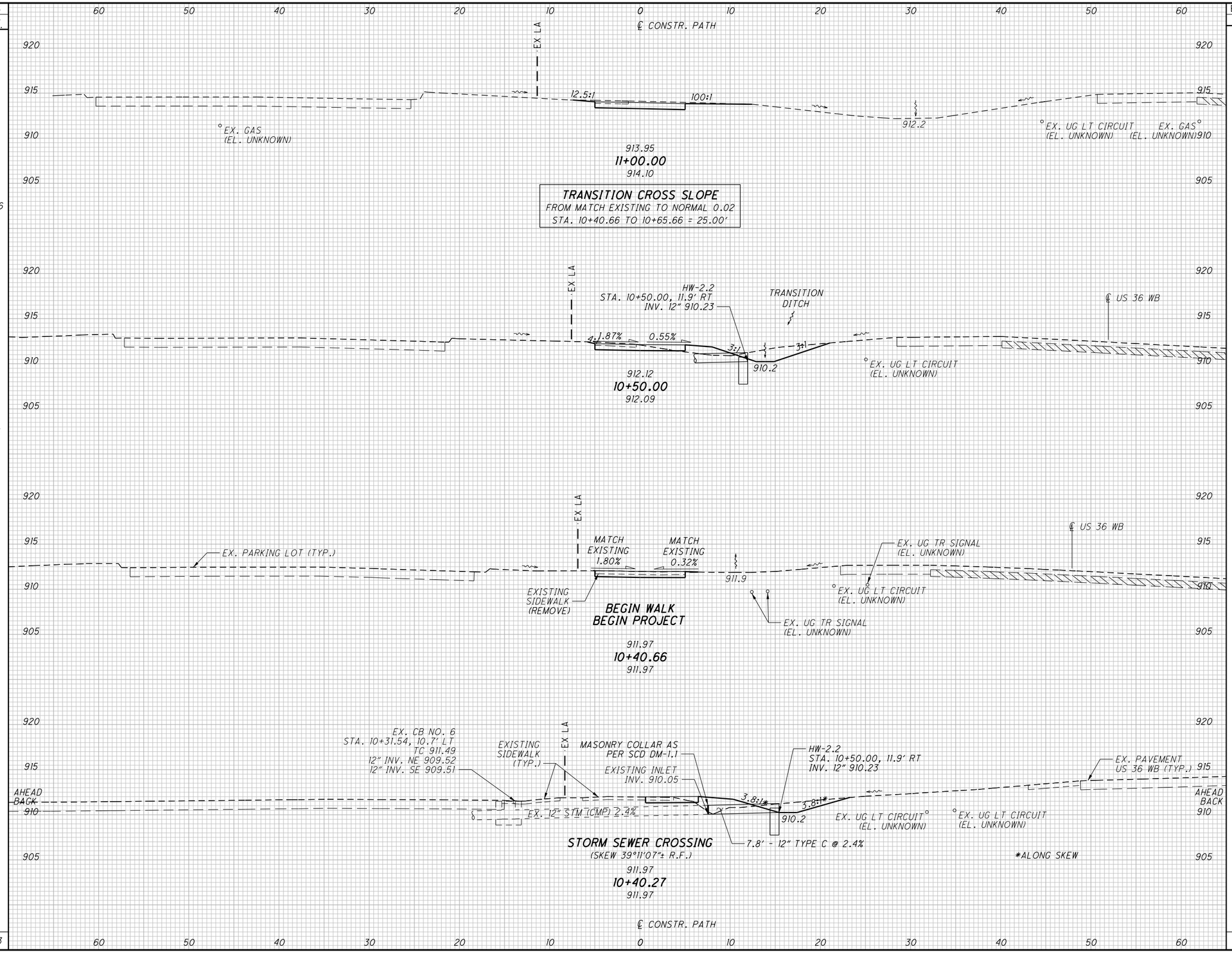

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
8	0		
		18	4
12	4		
		3	1
3	0		
		0	0
9	7		
0	0		
		21	5

CALCULATED ZLS
CHECKED CLP

CROSS SECTIONS
STA. 10+40.27 TO STA. 11+00.00

MIA-EAST ASH
STREET BIKEWAY

16
33

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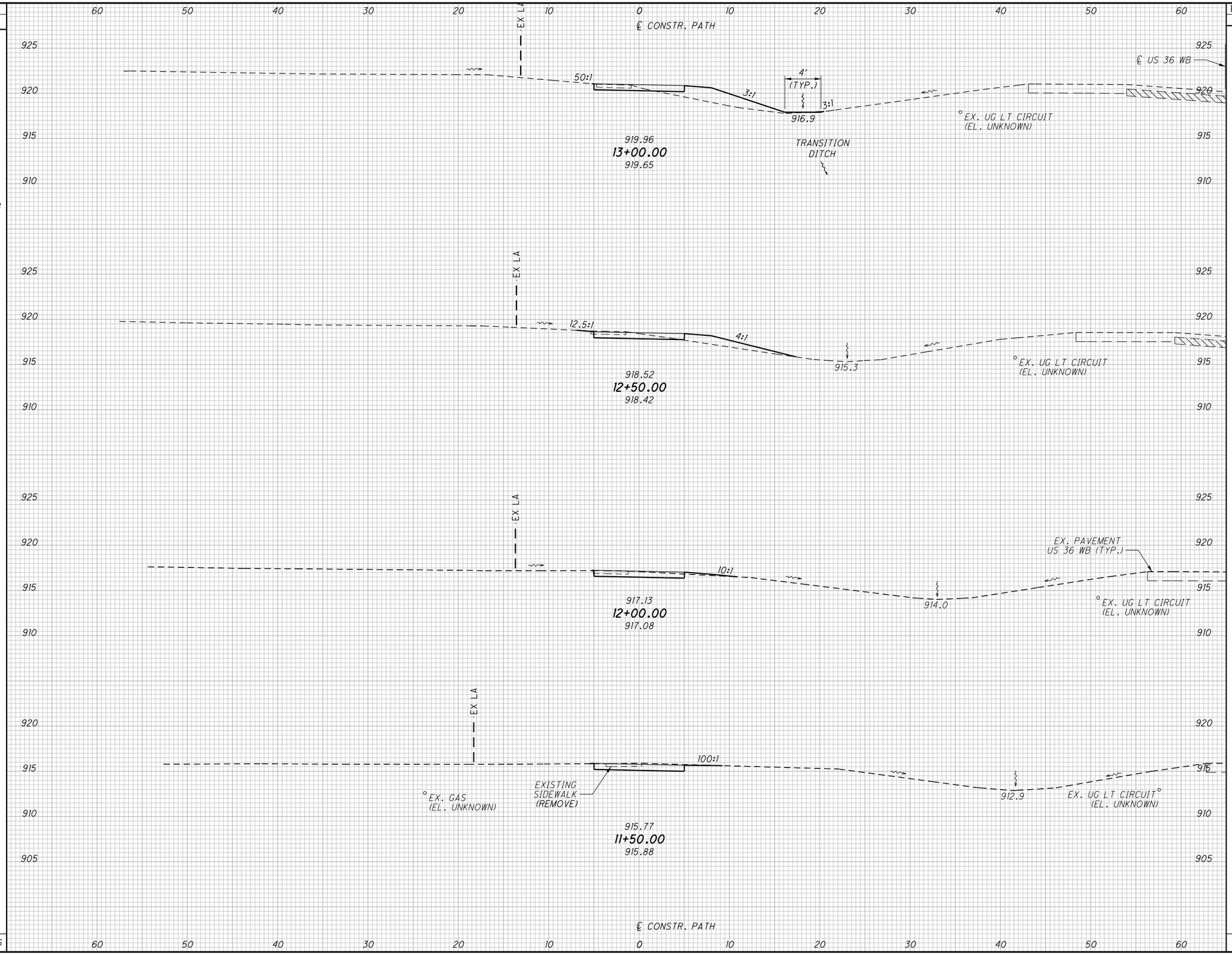

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
20		2	13		
	108			5	19
19		4	7		
	81			8	7
10		5	1		
	53			10	1
9		6	0		
	64			13	0
	306			36	27

CALCULATED ZLS
CHECKED CLP

CROSS SECTIONS
STA. 11+50.00 TO STA. 13+00.00

MIA-EAST ASH
STREET BIKEWAY

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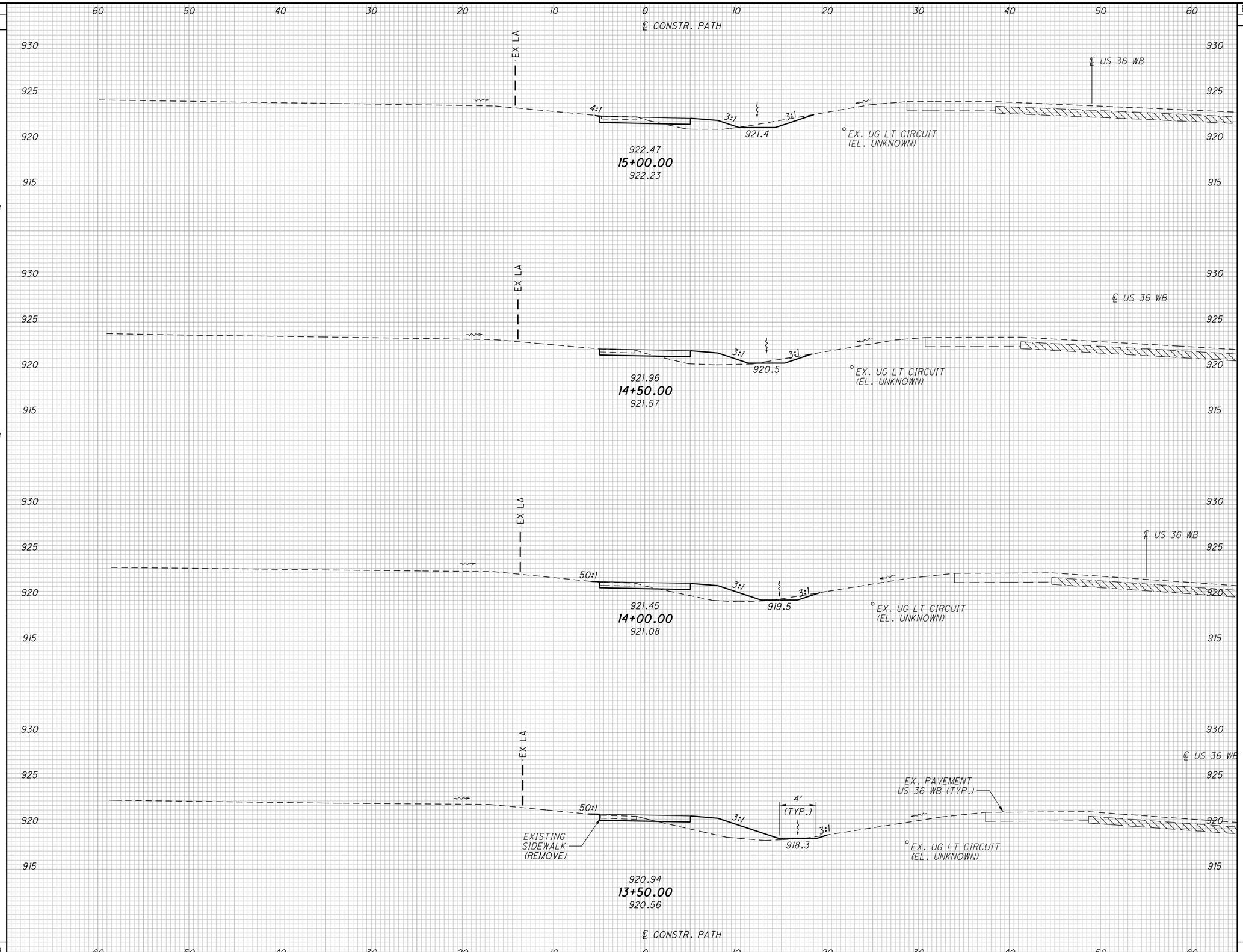
SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
20	108	5	5	8	12
19	108	3	8	6	17
20	114	3	10	4	23
21	114	2	14	3	25
	444			21	77



CALCULATED ZLS
CHECKED CLP

CROSS SECTIONS
STA. 13+50.00 TO STA. 15+00.00

MIA-EAST ASH STREET BIKEWAY

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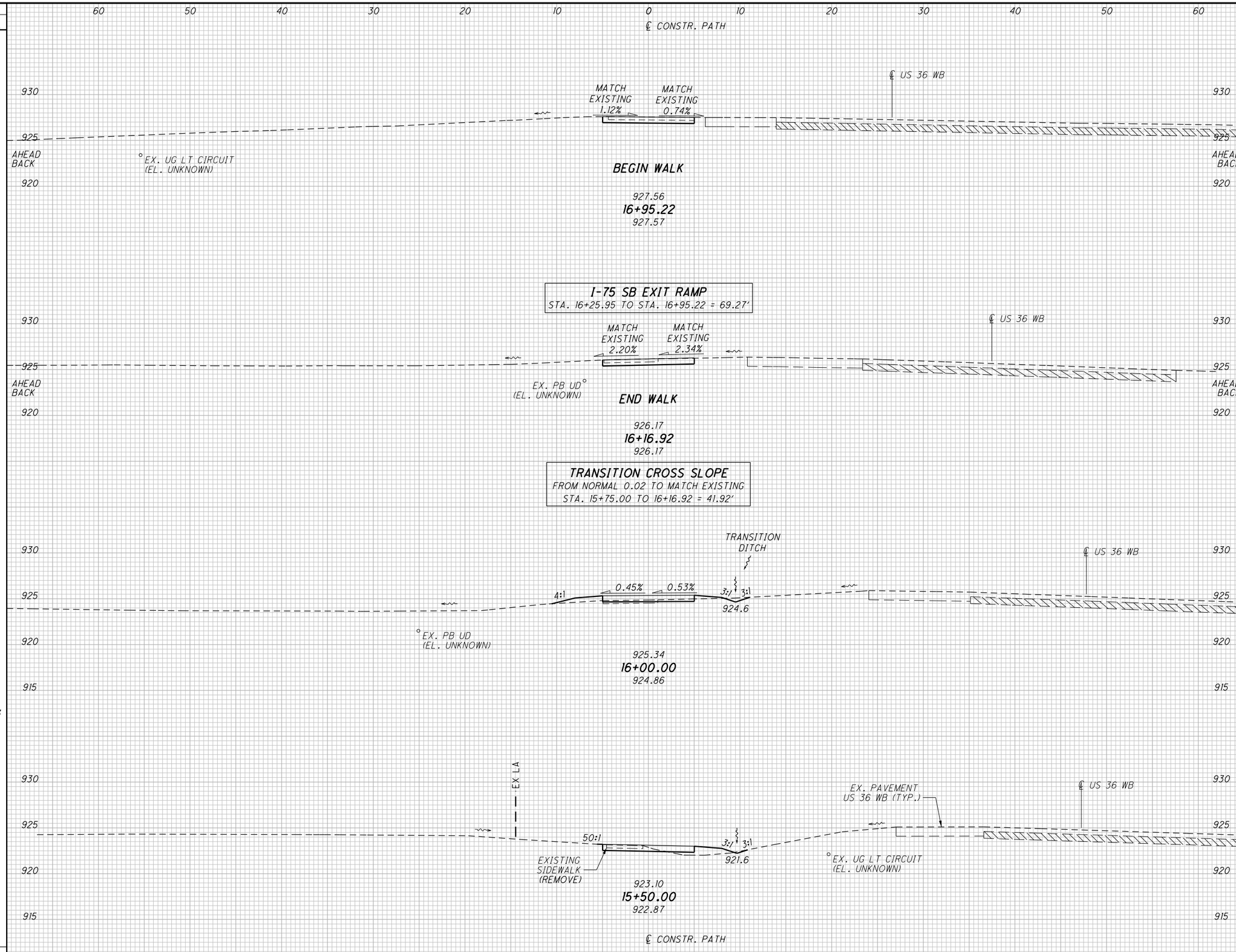
SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0		4	0		
0		0	0		
	0			0	0
0		0	0		
0		5	0		
	30			2	1
16		2	3		
	103			5	6
21		3	4		
	114			7	8
	247			14	15



CALCULATED ZLS
CHECKED CLP

CROSS SECTIONS
STA. 15+50.00 TO STA. 16+95.22

MIA-EAST ASH STREET BIKEWAY

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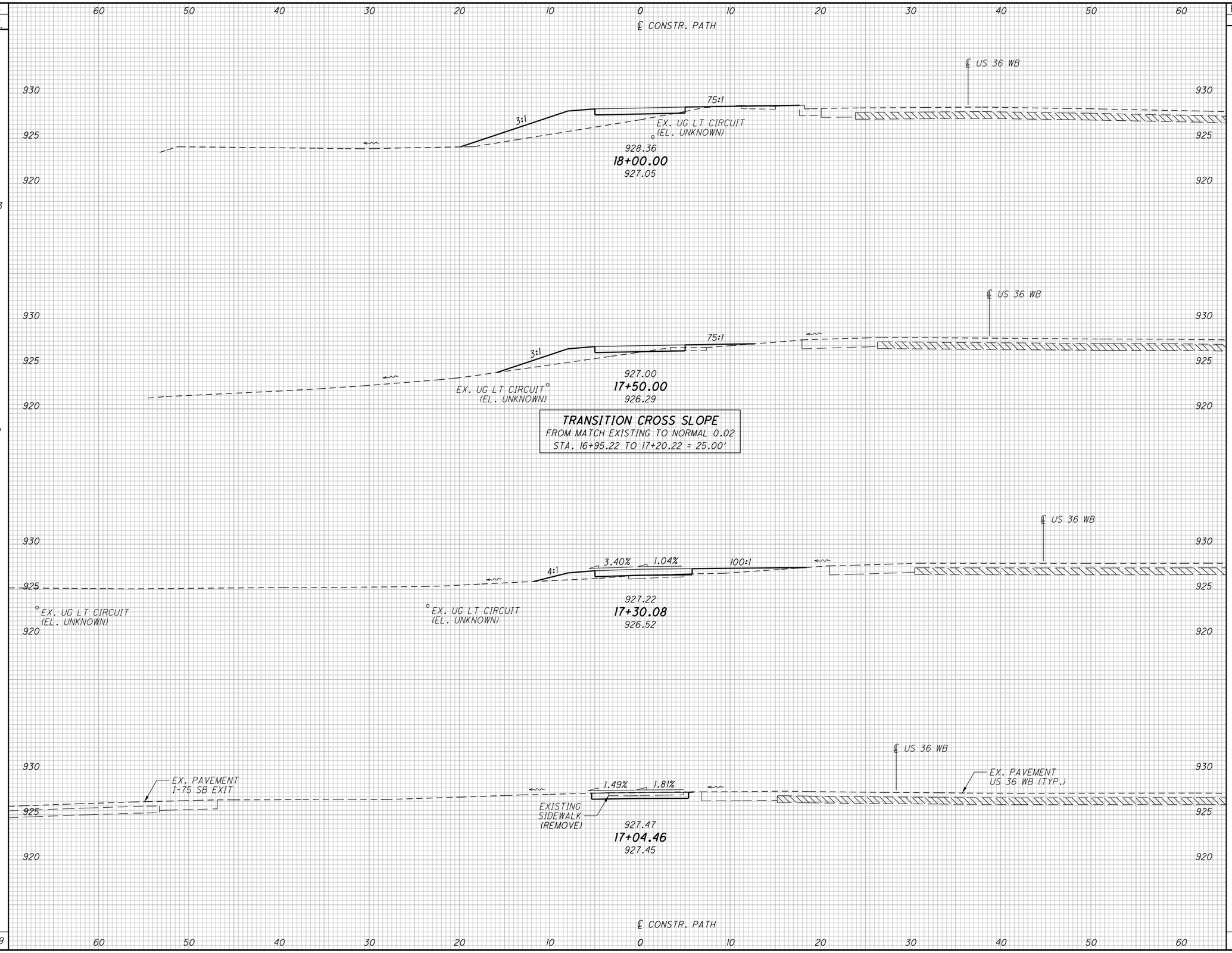

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
32		0	28		
	153			1	39
23		1	14		
	52			0	8
24		0	9		
	41			2	4
5		5	0		
	3			1	0
	249			4	51

CALCULATED ZLS
CHECKED CLP

CROSS SECTIONS
STA. 17+04.46 TO STA. 18+00.00

MIA-EAST ASH
STREET BIKEWAY

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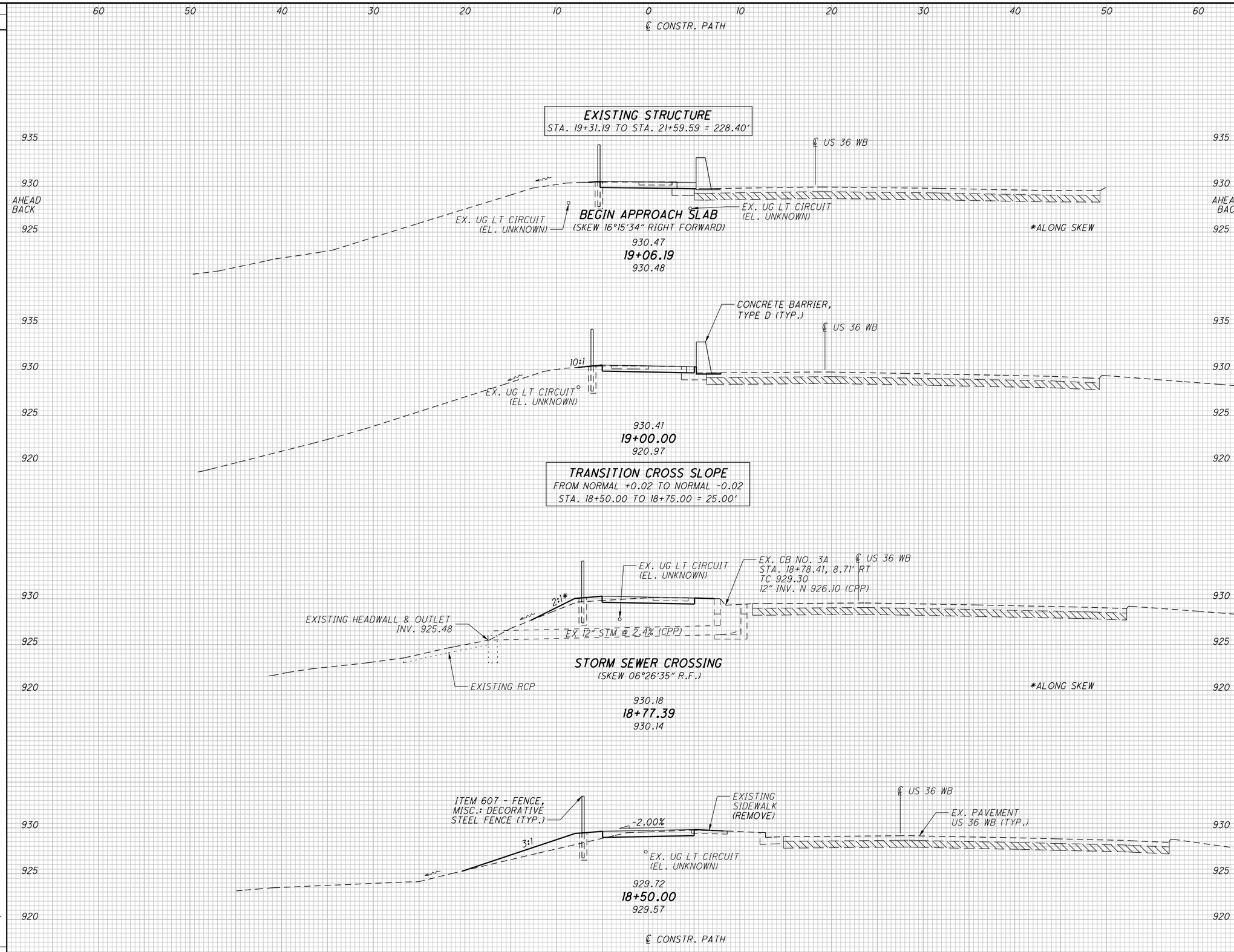
SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0		0	0		
5		4	0		
	4			1	0
7		4	0		
	23			3	1
11		4	2		
	52			4	6
23		4	11		
	153			4	36
	232			12	43



CALCULATED ZLS
CHECKED CLP

CROSS SECTIONS
STA. 18+50.00 TO STA. 19+06.19

MIA-EAST ASH
STREET BIKEWAY

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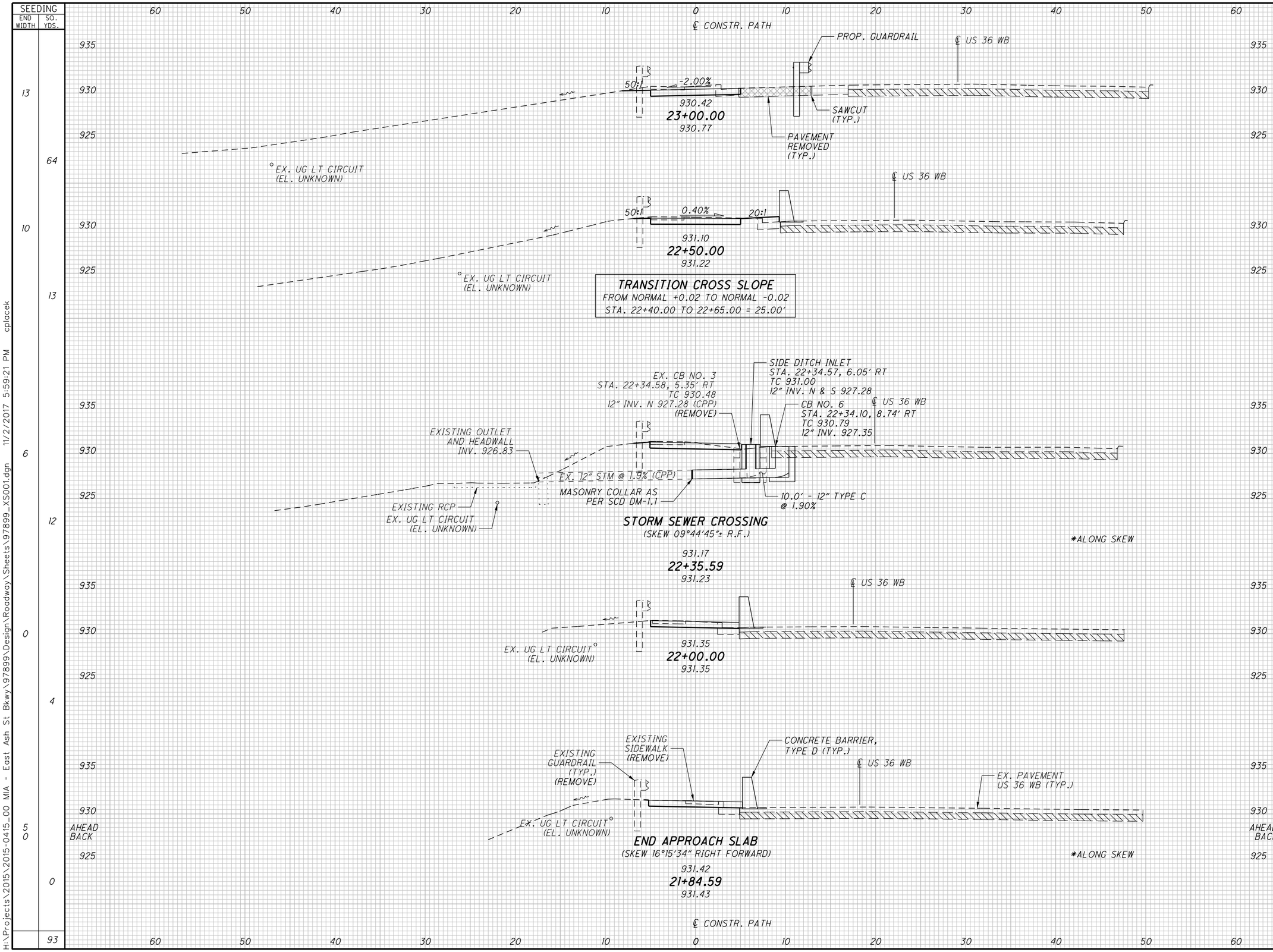

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
13		7	0		
	64			13	1
10		7	1		
	13			3	0
6		5	0		
	12			6	0
0		4	0		
	4			2	0
5 0		4 0	0 0		
	0			0	0
	93			24	1

CALCULATED ZLS
CHECKED CLP

CROSS SECTIONS
STA. 21+84.59 TO STA. 23+00.00

MIA-EAST ASH STREET BIKEWAY

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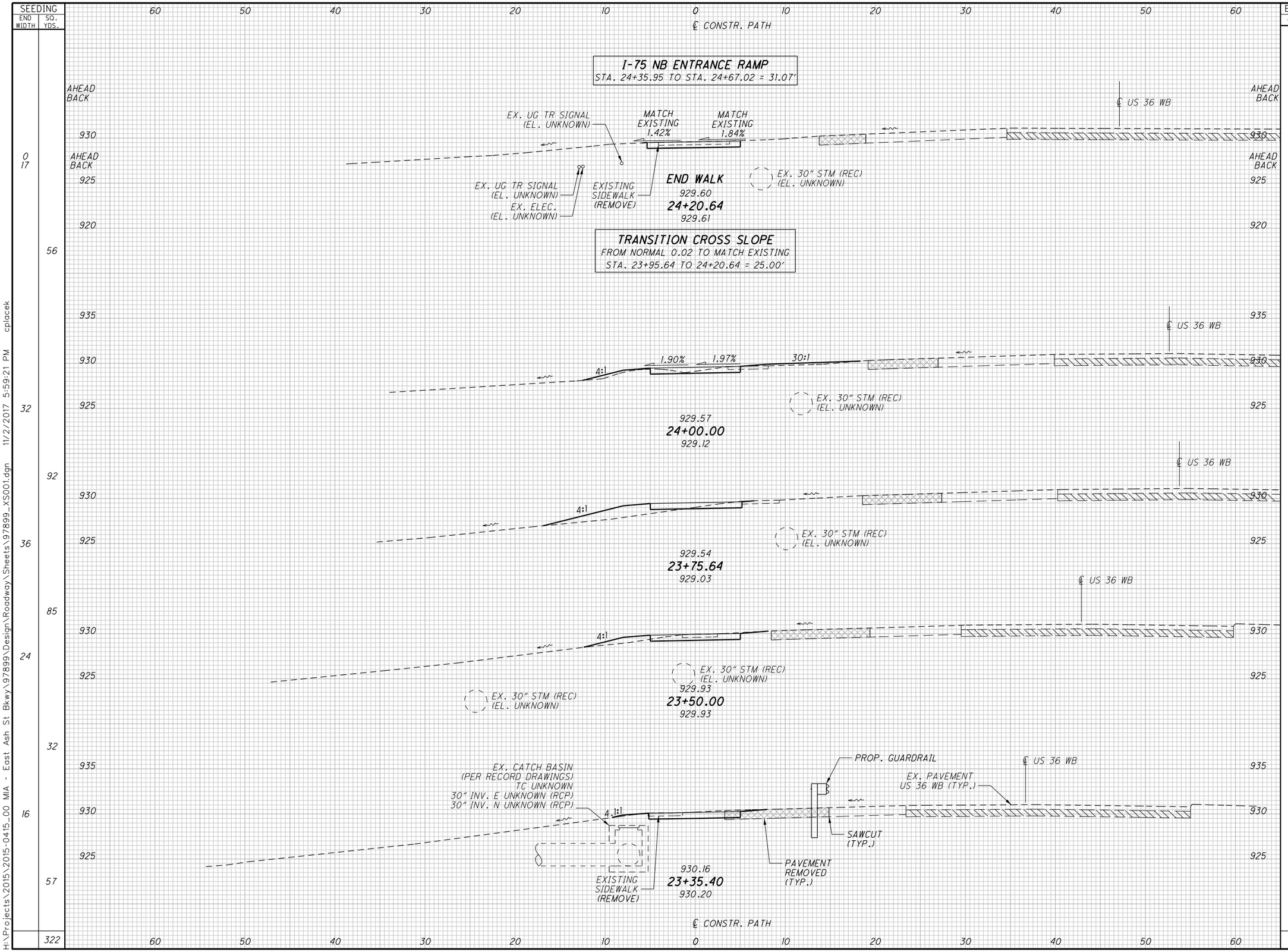

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0		0	0		
17		4	0		
	56			3	1
32		4	4		
	92			3	6
36		3	11		
	85			3	6
24		5	3		
	32			3	1
16		5	0		
	57			8	0
	322			20	14

CALCULATED ZLS
CHECKED CLP

CROSS SECTIONS
STA. 23+35.40 TO STA. 24+20.64

MIA-EAST ASH STREET BIKEWAY

23/33

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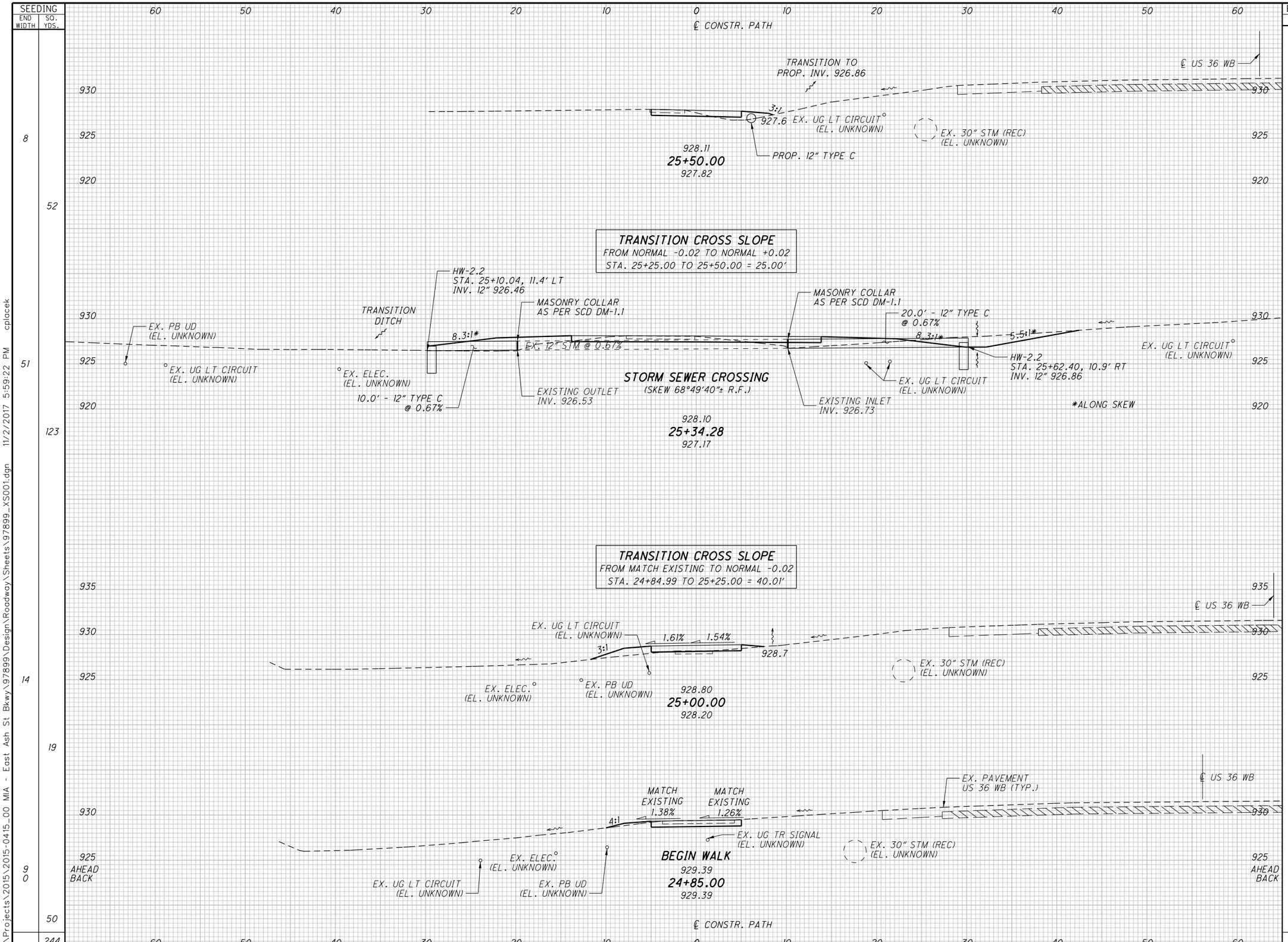
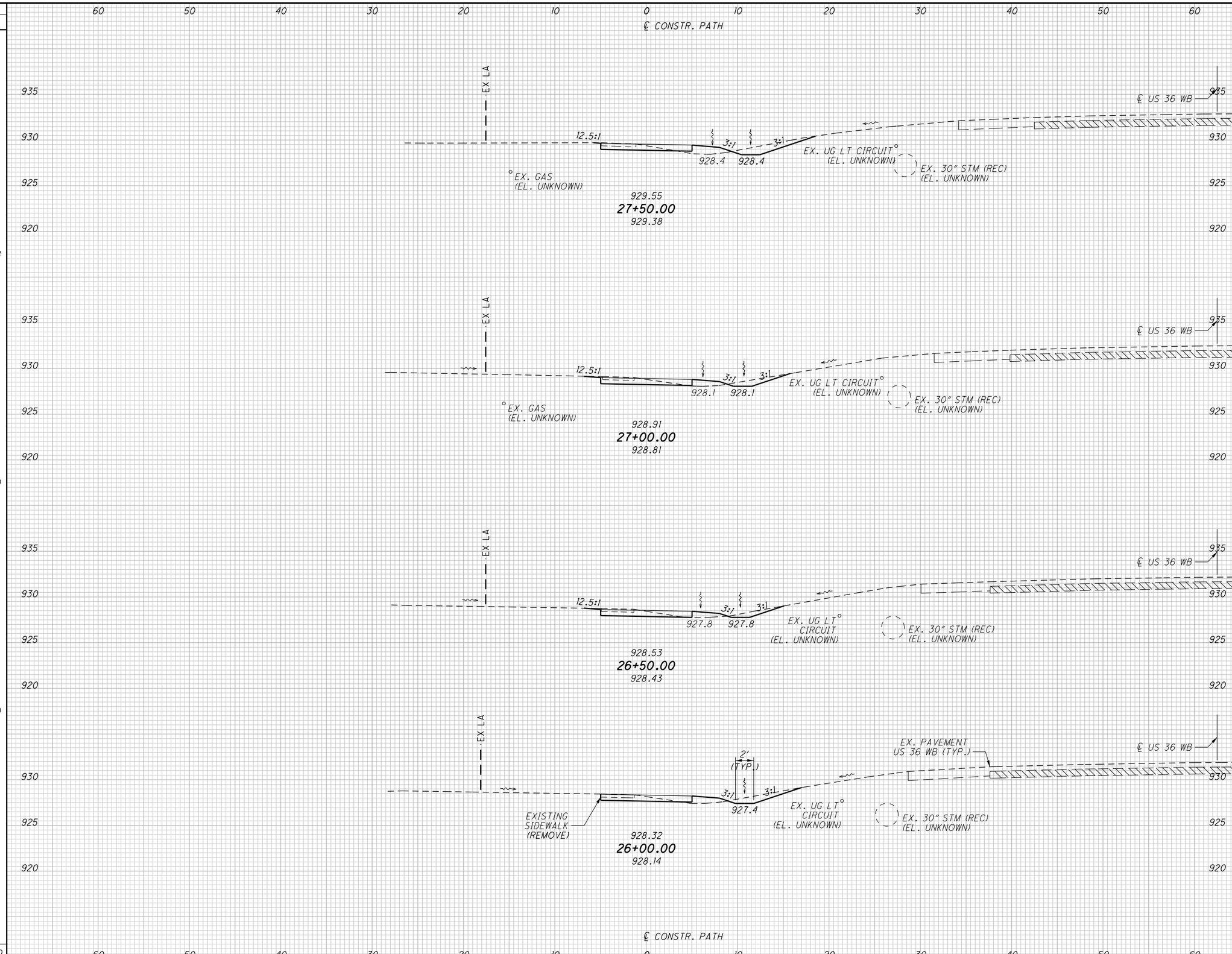

SEEDING
END WIDTH
SQ. YDS.
60 50 40 30 20 10 0 10 20 30 40 50 60
℄ CONSTR. PATH
TRANSITION TO
PROP. INV. 926.86
℄ US 36 WB
930
925
920
3:1
927.6
EX. UG LT CIRCUIT
(EL. UNKNOWN)
EX. 30" STM (REC)
(EL. UNKNOWN)
928.11
25+50.00
927.82
PROP. 12" TYPE C
TRANSITION CROSS SLOPE
FROM NORMAL -0.02 TO NORMAL +0.02
STA. 25+25.00 TO 25+50.00 = 25.00'
HW-2.2
STA. 25+10.04, 11.4' LT
INV. 12" 926.46
MASONRY COLLAR
AS PER SCD DM-1.1
TRANSITION
DITCH
EX. PB UD
(EL. UNKNOWN)
8.3:1*
EX. 12" STM @ 0.61%
20.0' - 12" TYPE C
@ 0.67%
5.5:1*
EX. UG LT CIRCUIT
(EL. UNKNOWN)
EX. ELEC.
(EL. UNKNOWN)
10.0' - 12" TYPE C
@ 0.67%
EXISTING OUTLET
INV. 926.53
STORM SEWER CROSSING
(SKEW 68°49'40"± R.F.)
EXISTING INLET
INV. 926.73
HW-2.2
STA. 25+62.40, 10.9' RT
INV. 12" 926.86
*ALONG SKEW
928.10
25+34.28
927.17
TRANSITION CROSS SLOPE
FROM MATCH EXISTING TO NORMAL -0.02
STA. 24+84.99 TO 25+25.00 = 40.01'
1.61%
1.54%
928.7
928.80
25+00.00
928.20
EX. PAVEMENT
US 36 WB (TYP.)
MATCH
EXISTING
1.38%
MATCH
EXISTING
1.26%
4:1
EX. UG TR SIGNAL
(EL. UNKNOWN)
BEGIN WALK
929.39
24+85.00
929.39
AHEAD
BACK
℄ CONSTR. PATH
END AREA
CUT FILL
VOLUME
CUT FILL
CALCULATED ZLS
CHECKED CLP
CROSS SECTIONS
STA. 24+85.00 TO STA. 25+50.00
MIA-EAST ASH
STREET BIKEWAY
24
33
H:\Projects\2015\2015-0415_00 MIA - East Ash St Bkwy\97899\Design\Roadway\Sheets\97899_XS001.dgn 11/2/2017 5:59:22 PM cplacek

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
21	108	8	3	13	5
18	100	6	2	11	4
18	100	6	2	11	4
18	72	6	2	8	5
380				43	18



CALCULATED ZLS
CHECKED CLP

CROSS SECTIONS
STA. 26+00.00 TO STA. 27+50.00

MIA-EAST ASH
STREET BIKEWAY

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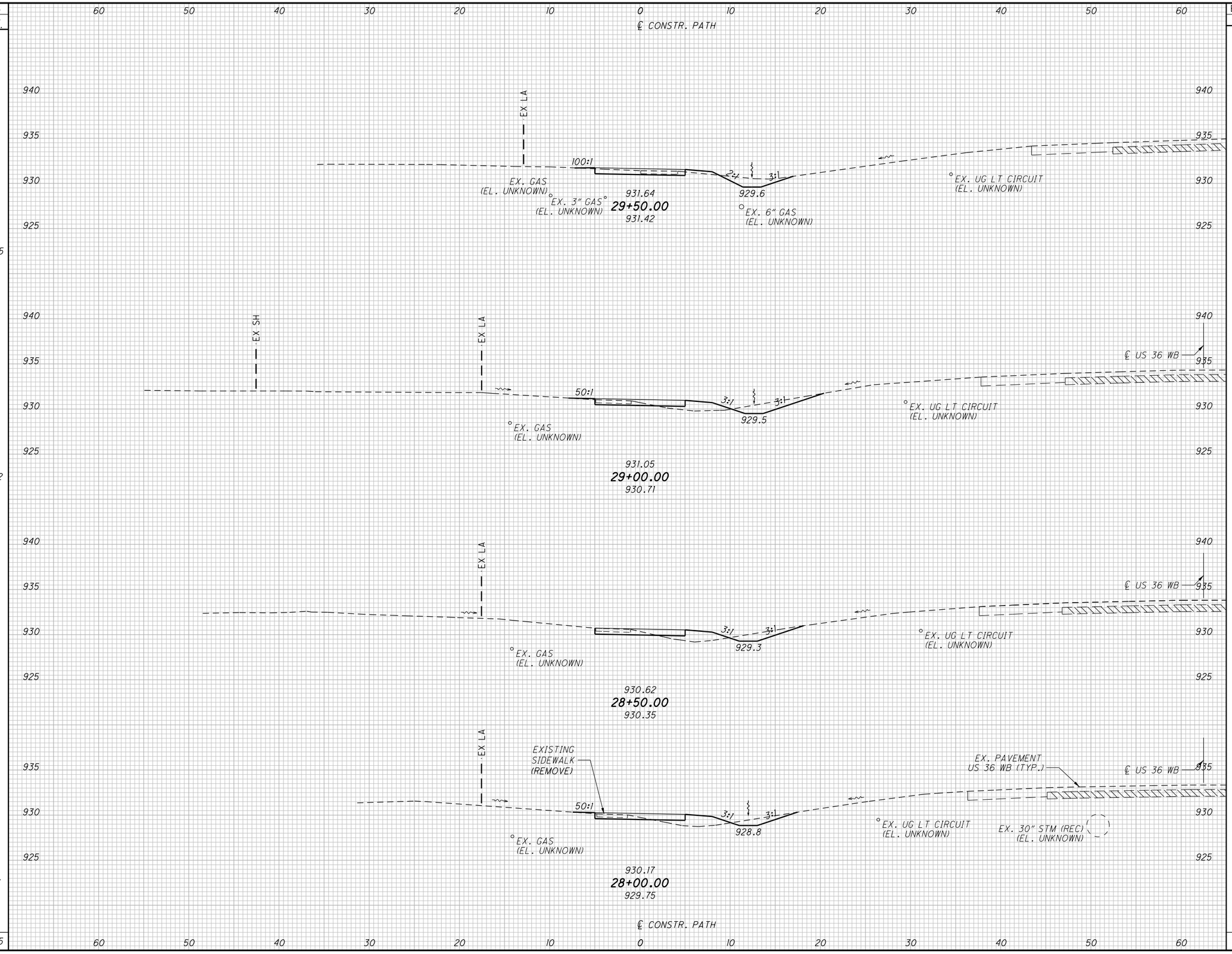
SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
22	295	1	5	6	8
25	122	8	5	13	9
19	111	6	5	10	10
21	117	5	6	11	8
	645			40	35



CALCULATED ZLS
CHECKED CLP

CROSS SECTIONS
STA. 28+00.00 TO STA. 29+50.00

MIA-EAST ASH
STREET BIKEWAY

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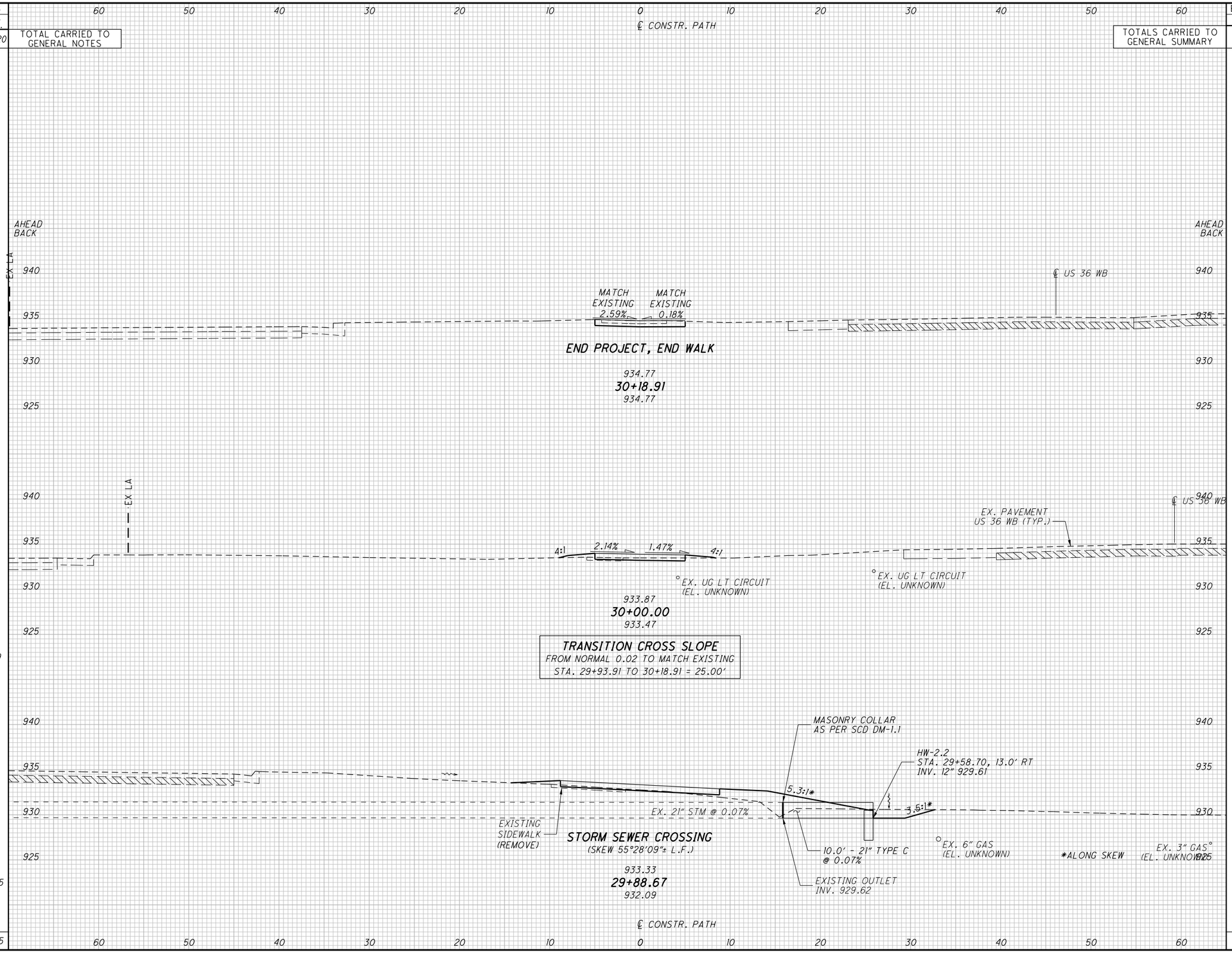
SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	3,620			268	335
0		0	0		
0		4	0		
11				2	1
11		2	2		
29				2	5
35		6	20		
295				10	15
335				14	21



CALCULATED ZLS
CHECKED CLP

CROSS SECTIONS
STA. 29+88.67 TO STA. 30+18.91

MIA-EAST ASH STREET BIKEWAY

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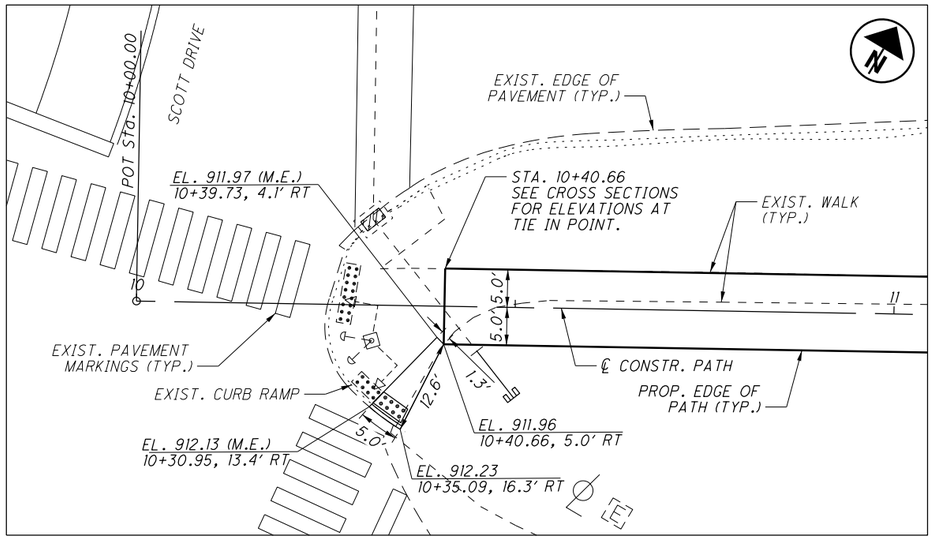
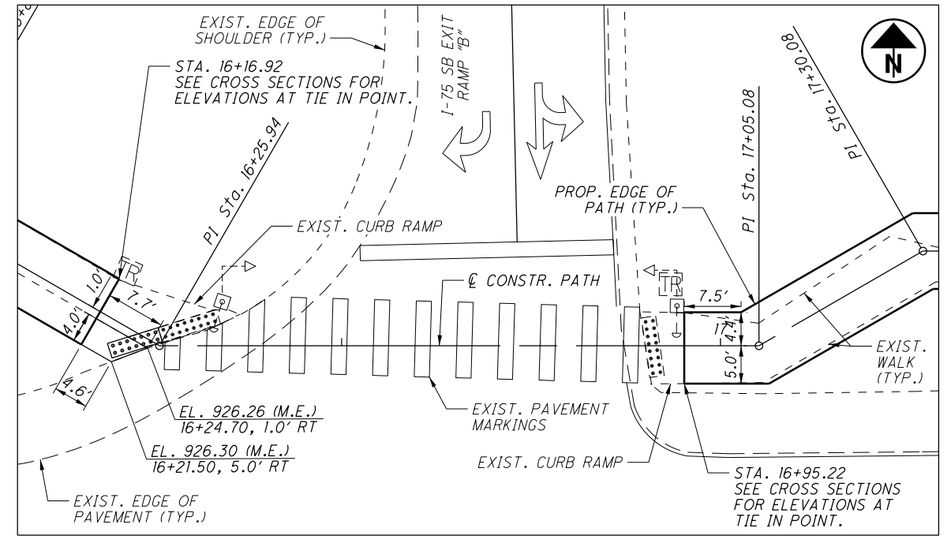


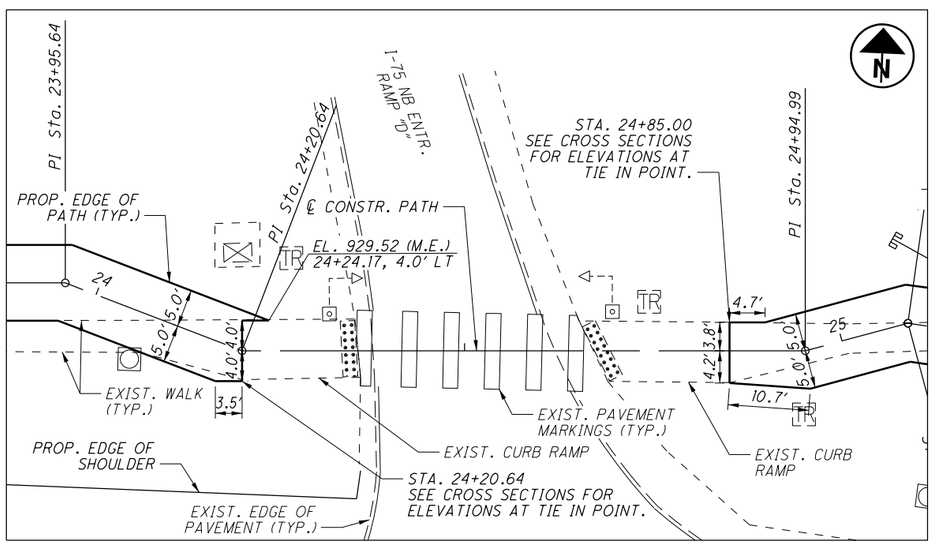
CURB RAMP DETAILS

SCOTT DRIVE



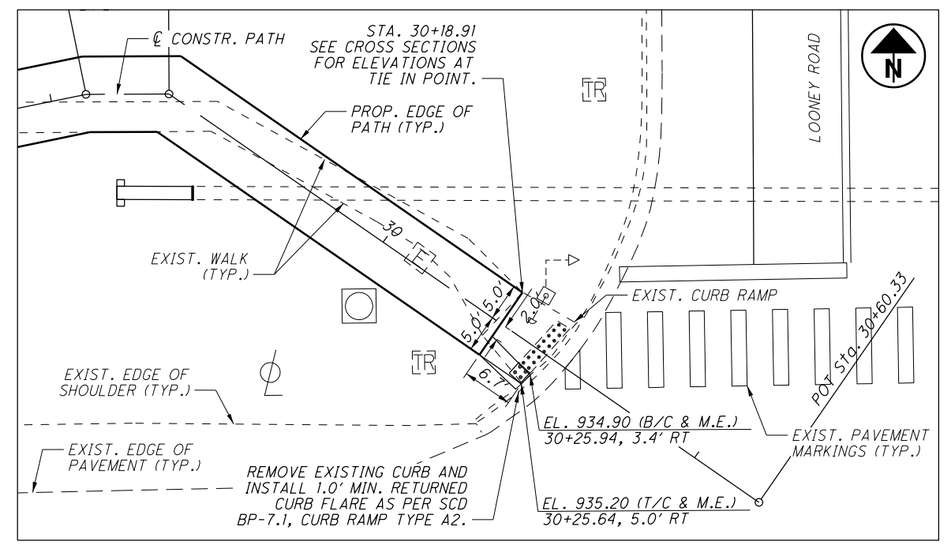
CURB RAMP DETAILS

I-75 SB EXIT RAMP "B"



CURB RAMP DETAILS

I-75 NB ENTR. RAMP "D"



CURB RAMP DETAILS

LOONEY ROAD

GENERAL NOTES:

1. WHERE PROPOSED WALK TIES IN TO EXISTING WALK MATCH EXISTING ELEVATIONS. SEE CROSS SECTIONS FOR ELEVATIONS AT TIE IN POINTS.

2. ALL ELEVATIONS ARE ALONG THE EDGE OF WALK UNLESS OTHERWISE NOTED.

LEGEND:

EL. 926.30 / 16+21.50, 5.0' RT	PROPOSED ELEVATION, STATION AND OFFSET		EXISTING LIGHT POLE
		TR	EXISTING SIGNAL PULLBOX
M.E.	MATCH EXISTING		EXISTING SIGNAL POLE
T/C	TOP OF CURB		EXISTING PEDESTRIAN SIGNAL POLE
B/C	BOTTOM OF CURB		EXISTING PEDESTRIAN PUSHBUTTON
	EXISTING DETECTABLE WARNING		EXISTING PEDESTRIAN SIGNAL HEAD
	PROPOSED DETECTABLE WARNING		

HORIZONTAL SCALE IN FEET 0 5 10 20

CALCULATED CLP
CHECKED BMV

CURB RAMP DETAILS

MIA-EAST ASH STREET BIKEWAY

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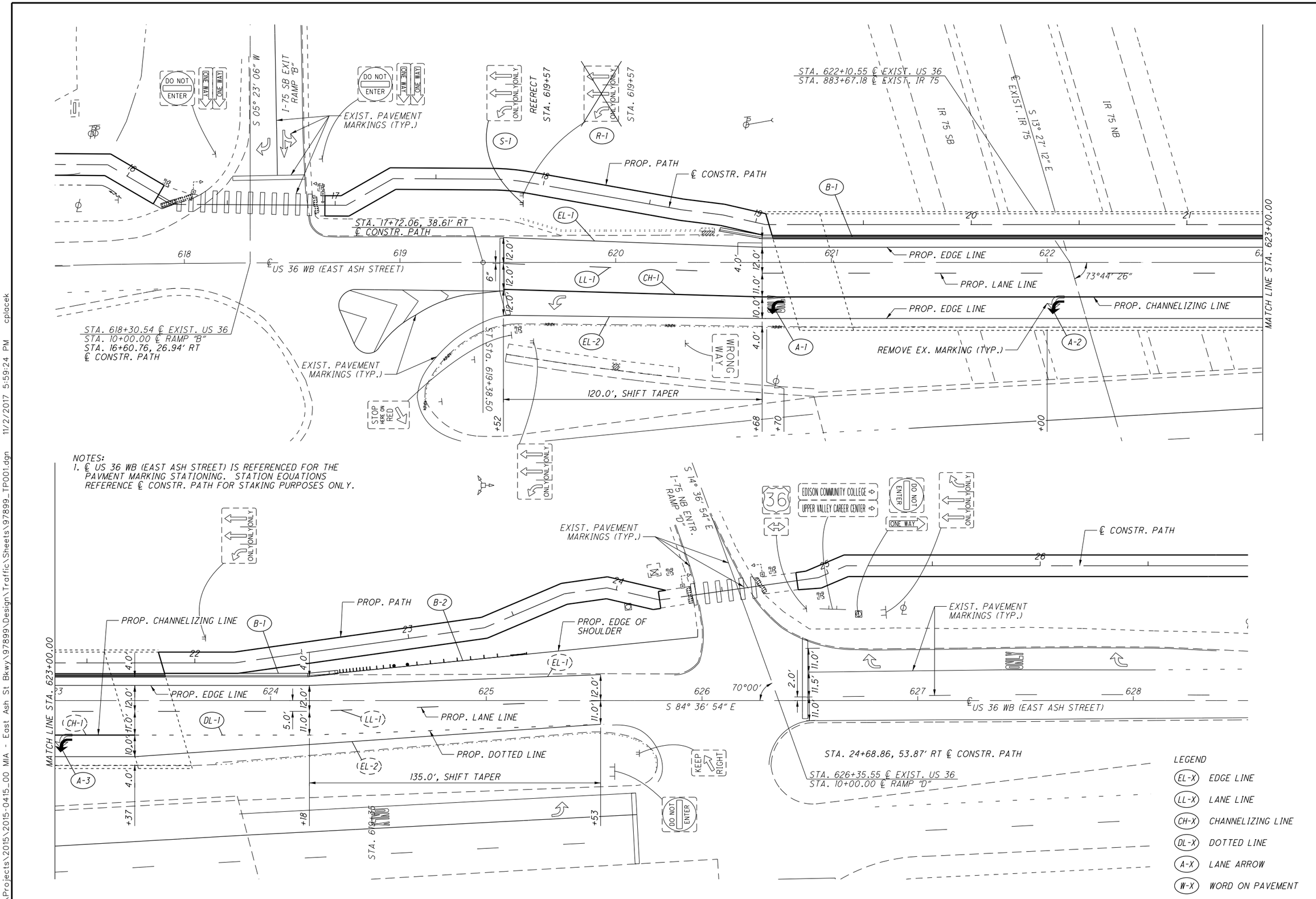

HORIZONTAL SCALE IN FEET 0 10 20 40

CALCULATED CLP
CHECKED BMV

PAVEMENT MARKING PLAN
STA. 617+50.00 TO STA. 628+25.00

MIA-EAST ASH STREET BIKEWAY

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REF NO.	SHEET NO.	STATION TO STATION			SIDE	630 GROUND MOUNTED SUPPORT, NO. 3 POST	630 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	644 EDGE LINE, 4" (WHITE)	644 EDGE LINE, 4" (YELLOW)	644 LANE LINE, 4"	644 CHANNELIZING LINE, 8"	644 LANE ARROW	644 DOTTED LINE, 4"	644 REMOVAL OF PAVEMENT MARKING	644 REMOVAL OF PAVEMENT MARKING	626 BARRIER REFLECTOR, TYPE 1, ONE-WAY	626 BARRIER REFLECTOR, TYPE 2, ONE-WAY
						FT	EACH	EACH	MILE	MILE	MILE	FT	EACH	FT	FT	EACH	EACH	EACH
S-1	29	619+57			LT	13/13												
R-1	29	619+57			LT		1	2										
EL-1	29	619+52	TO	625+53	LT				0.12						605			
EL-2	29	619+52	TO	625+53	RT					0.12					605			
LL-1	29	619+52	TO	625+53	RT						0.12				605			
CH-1	29	619+52	TO	623+37	RT							390			390			
A-1	29	620+70			RT								1			1		
A-2	29	622+00			RT								1			1		
A-3	29	623+00			RT								1			1		
DL-1	29	623+37	TO	625+53	RT									216	216			
B-1	29	620+48	TO	624+31	LT												4	
B-2	29	624+31	TO	625+18	LT													3
TOTALS CARRIED TO GENERAL SUMMARY						26	1	2	0.12	0.12	0.12	390	3	216	2421	3	4	3
									0.24									

CALCULATED CLP
CHECKED BMV

PAVEMENT MARKING SUBSUMMARY

MIA-EAST ASH STREET BIKEWAY

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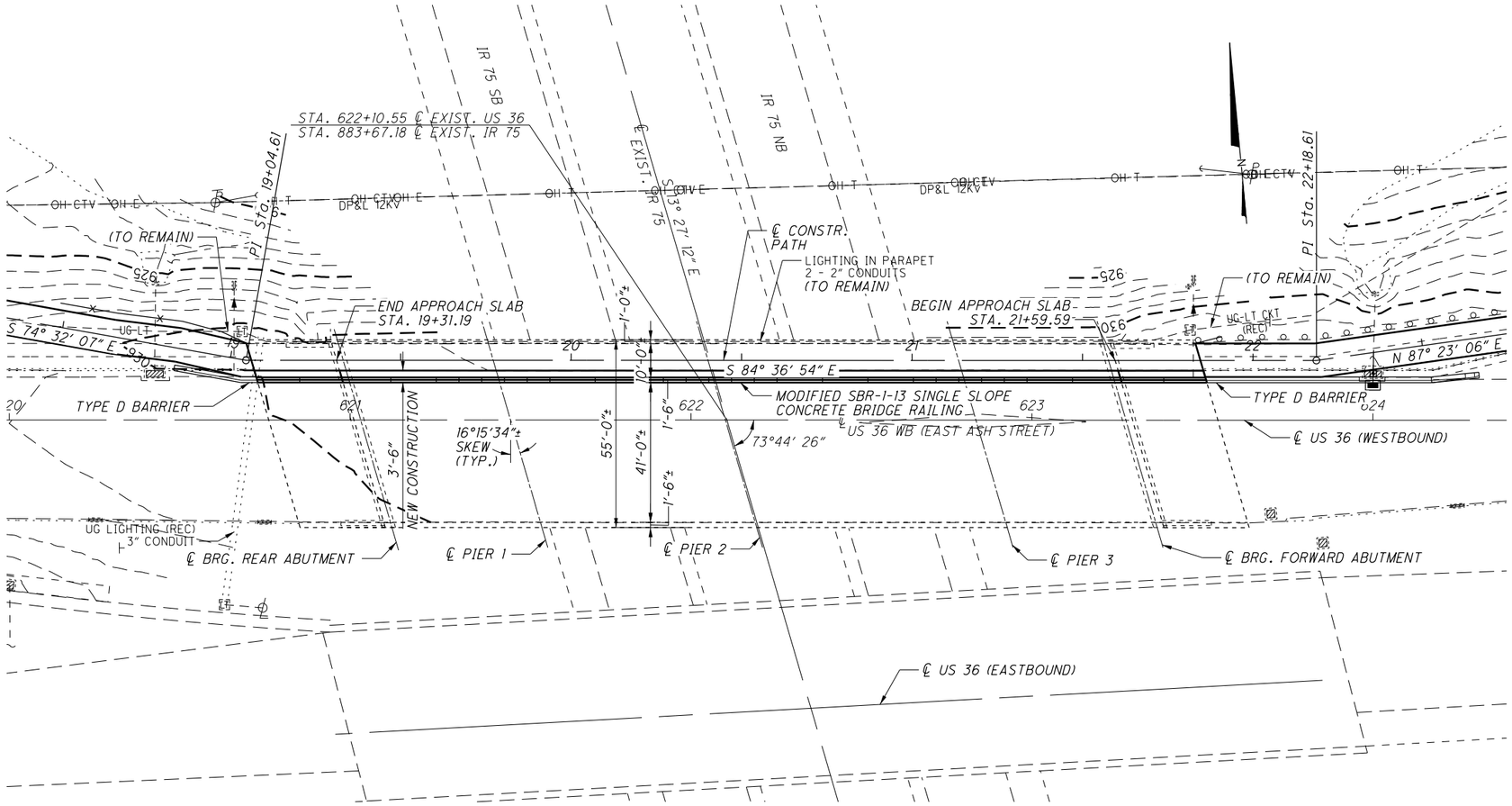
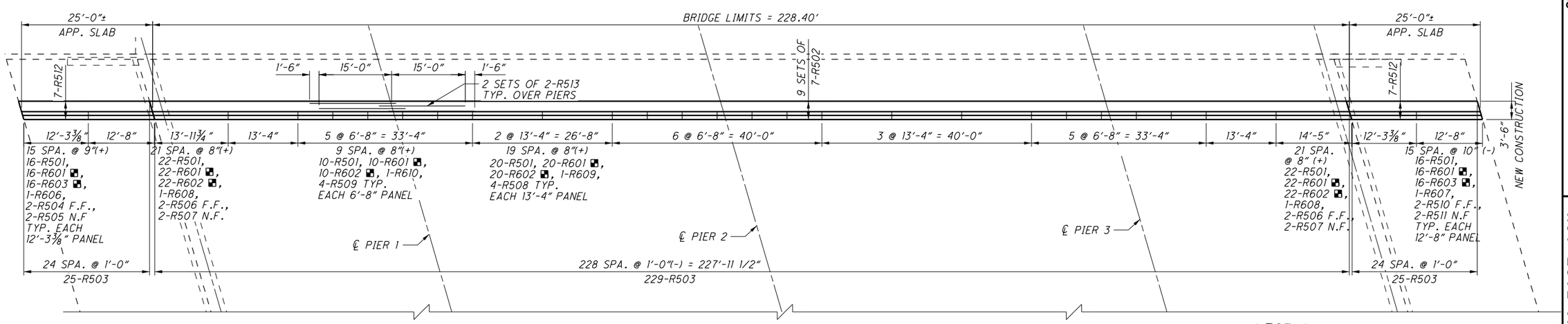


GENERAL PLAN



PARTIAL DECK PLAN

EXISTING STRUCTURE

TYPE: FOUR SPAN CONTINUOUS STEEL BEAM WITH COMPOSITE REINFORCED CONCRETE DECK AND REINFORCED CONCRETE SUBSTRUCTURES

SPANS: 44'-0"±; 63'-0"±; 73'-6"±; AND 44'-0"± C/C BEARINGS

ROADWAY: 44'-6"± TOE OF PARAPET TO TOE OF 8'-0"± SIDEWALK

LOADING: CF-400(51) SUBSTRUCTURE, HS20 CASE I, 60 PSF FUTURE WEARING SURFACE AND ALTERNATE MILITARY LOADING SUPERSTRUCTURE

SKEW: 16°15'34"± RIGHT FORWARD

APPROACH SLABS: AS-1-81 (25'-0"±)

ALIGNMENT: TANGENT

CROWN: 3/16"/FT

WEARING SURFACE: 1" MONOLITHIC CONCRETE

STRUCTURE FILE NUMBER: 5500184

DATE BUILT: 1958 (ORIGINAL), 1982 (WIDENED), 2011 (NEW DECK)

DISPOSITION: TO REMAIN

PROPOSED STRUCTURE

PROPOSED WORK:
ADJUST SHOULDER WIDTHS TO ACCOMMODATE WIDENED SIDEWALK/PATH WIDTH INCLUDING INSTALLATION OF A MODIFIED SBR-1-13 CONCRETE BRIDGE RAILING BARRIER

ROADWAY: 41'-0" TOE/TOE PARAPET WITH
10'-0" TOE/TOE BARRIER SIDEWALK/PATH

COORDINATES: LATITUDE 40°08'55"N
LONGITUDE 84°12'55"W

LEGEND:

■ R601 AND R602 DOWEL BARS, DOWEL 6" INTO EXISTING DECK SLAB. R601 AND R603 DOWEL 7 1/2" INTO EXISTING APPROACH SLAB. INSTALL WITH CMS 705.20 NON-SHRINK NONMETALLIC GROUT (TYP.)

DESIGN AGENCY
KORDA
KORDA/NEMETH ENGINEERING, INC. - CONSULTING ENGINEERS
8500 Walton Parkway, Suite 200 - Columbus, OH. 43235-1005
TEL. 614-487-9550 FAX 614-487-8981 WEB www.korda.com

DESIGNED	DRAWN	REVIEWED	DATE
ZLS	ZLS	BMV	5/17/2016
CHECKED	REVISED	STRUCTURE FILE NUMBER	
CAB	XXX	5500184	

GENERAL PLAN
BRIDGE NO.: MIA-36-1176L
US 36 OVER I-75

MIA-EAST ASH STREET BIKEWAY
PID No. 97899

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STRUCTURE GENERAL NOTES

STANDARD DRAWINGS:
REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING:

SBR-1-13 DATED 01-17-2014 (MODIFIED)

DESIGN SPECIFICATIONS
MINOR MODIFICATION WORK FOR THIS STRUCTURE CONFORMS TO THE OHIO DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL AND THE CONSTRUCTION AND MATERIALS SPECIFICATIONS (DATED 2016)

DESIGN LOADING
EXISTING SUPERSTRUCTURE LOADING: HS20, CASE I AND THE ALTERNATE MILITARY LOADING AND FUTURE WEARING SURFACE (FWS) OF 60 PSF. (ORIGINAL)
EXISTING SUBSTRUCTURE LOADING: CF-400 (51) (ORIGINAL)

DESIGN DATA
CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4500 PSI (BARRIER AND WALK ADDITION)

REINFORCING STEEL - ASTM A615 OR A996, GRADE 60, MINIMUM YIELD STRENGTH 60,000 PSI

DECK PROTECTION METHOD
EPOXY COATED REINFORCING STEEL
2-1/2" CONCRETE COVER
SEALING OF CONCRETE

EXISTING STRUCTURE VERIFICATION:
DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, AND 105.02.

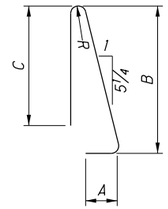
BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

ITEM 511 - CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN

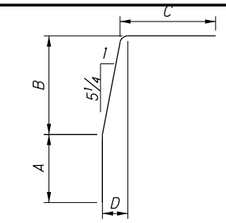
THE CONCRETE PLACED ABOVE THE EXISTING CONCRETE DECK SURFACE OF THE EXTENDED SIDEWALK/PATH, THE PARAPET MOUNTED ON THE DECK SLAB, THE PARAPET MOUNTED ON THE APPROACH SLAB, SAWCUTS, AND CAULKING COMPOUND ARE INCLUDED FOR PAYMENT IN THE UNIT PRICE BID FOR ITEM 511 CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN.

ITEM 530 - SPECIAL, STRUCTURES: BRIDGE DECK SURFACE PREPARATION:

PREPARATION OF SURFACE: AFTER REMOVING ALL UNSATISFACTORY CONCRETE, INSTALL DOWELS AS PER PLAN. WITHIN 24 HOURS OF PLACING THE NEW CONCRETE BLAST CLEAN ALL SURFACES TO WHICH THE NEW CONCRETE IS TO BOND, INCLUDING ALL EXPOSED REINFORCING STEEL, FACE OF CURBS, AND PORTION OF EXISTING CONCRETE DECK, OF ALL DIRT, DUST, LAITANCE AND CONTAMINANTS DETRIMENTAL TO THE ACHIEVEMENT OF AN ADEQUATE BOND. THE CONTRACTOR MAY BLAST CLEAN THESE SURFACES USING HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING, OR ANY OTHER METHOD THAT PRODUCES SATISFACTORY RESULTS. THOROUGHLY DRENCH THE SURFACE WITH CLEAN WATER. BEFORE PLACING CONCRETE, ALLOW THE SURFACE TO DRY TO A DAMP CONDITION BUT WITHOUT FREE WATER.



TYPE-23



TYPE-39

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS A	B	C	D	E	R	INC
BARRIER & SIDEWALK REINFORCING STEEL											
R501	408	8'-4"	3546	23	0'-11"	3'-9"	3'-6"			2¾"	
R502	63	28'-5"	1867	STR							
R503	279	1'-7"	461	STR							
R504	4	12'-4"	51	STR							
R505	4	12'-0"	50	STR							
R506	4	11'-8"	49	STR							
R507	4	12'-3"	51	STR							
R508	28	13'-0"	380	STR							
R509	64	6'-4"	423	STR							
R510	4	11'-11"	50	STR							
R511	4	12'-2"	51	STR							
R512	14	24'-6"	358	STR							
R513	12	17'-6"	219	STR							
R601 ◘	408	1'-10"	1123	STR							
R602 ◘	344	2'-2"	1119	39	0'-6"	0'-11"	0'-11"	0'-2"			
R603 ◘	64	2'-4"	224	39	0'-7½"	0'-11"	0'-11"	0'-2"			
R604	NOT USED										
R605	NOT USED										
R606	2	12'-1"	36	STR							
R607	2	12'-0"	36	STR							
R608	2	13'-10"	42	STR							
R609	7	13'-0"	137	STR							
R610	16	6'-4"	152	STR							
EPOXY COATED TOTAL			10,425	POUNDS							

NOTES:
1. ALL REINFORCING STEEL TO BE EPOXY-COATED.
2. LENGTHS ARE RECORDED IN FEET - INCHES.
3. "STR." IN THE TYPE COLUMN INDICATES STRAIGHT BARS.
4. REFER TO C.M.S. SEC. 509.05 FOR STANDARD BEND DIMENSIONS.
5. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE FIRST TWO DIGITS WHERE FOUR ARE USED, INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, P601 IS A NO. 6 BAR. BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. "R" INDICATES INSIDE RADIUS, UNLESS OTHERWISE INDICATED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.
6. ◘ R601, R602, AND R603 DOWEL BARS, DOWEL 6" INTO EXISTING DECK SLAB, AND 7 1/2" INTO EXISTING APPROACH SLAB AND INSTALL WITH CMS 705.20 NON-SHRINK NONMETTALIC GROUT (TYP.)

ESTIMATED QUANTITIES

CALC BY: ZLS DATE: 10/18/2016
CHKD BY: CAB DATE: 10/19/2016

ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	REF. SHEET
509	10000	10425	LB	EPOXY COATED REINFORCING STEEL	
510	10000	816	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
511	34449	60	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN	2/3
512	10050	62	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
512	10100	259	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
516	13600	12	SF	1" PREFORMED EXPANSION JOINT FILLER	
SPECIAL	530 00800	129	SY	STRUCTURES: BRIDGE DECK SURFACE PREPARATION	2/3

DESIGN AGENCY
KORDA
KORDA/MENTH ENGINEERING, INC. - CONSULTING ENGINEERS
6500 Emerald Parkway, Suite 200 - Columbus, OH 43016-1003
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DESIGNED	DRAWN	REVIEWED	DATE
ZLS	ZLS	BMV	5/17/2016
CHECKED	REVISED	STRUCTURE FILE NUMBER	
CAB	XXX	5500184	

GENERAL NOTES, ESTIMATED QUANTITIES, AND REINFORCING STEEL
BRIDGE NO.: MIA-36-1176L
US 36 OVER I-75

MIA-EAST ASH STREET BIKEWAY
PID No. 97899

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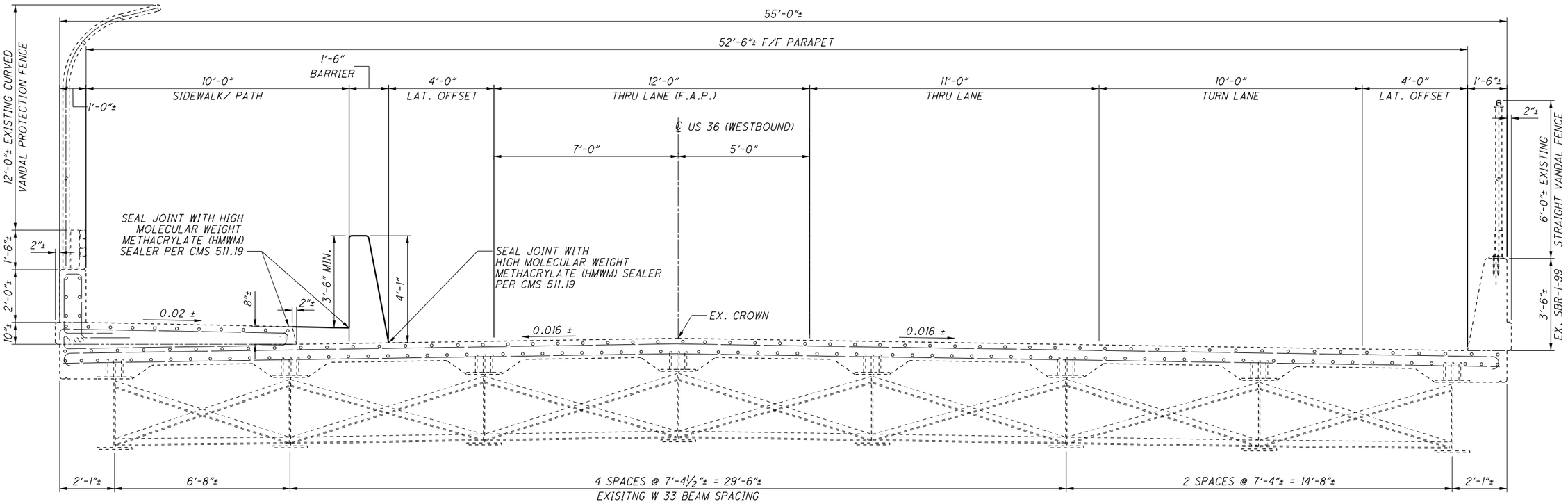
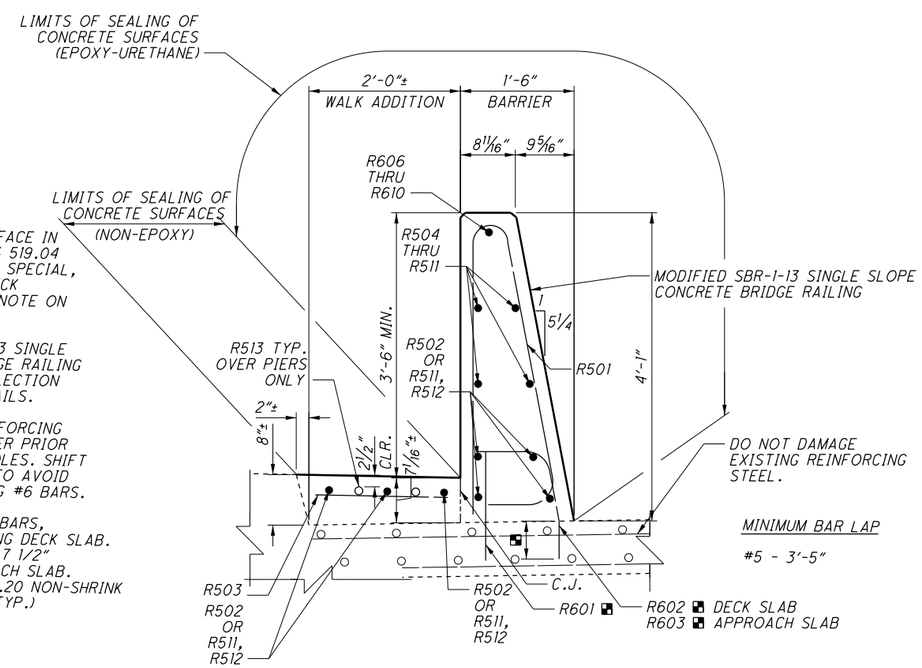


TRANSVERSE SECTION



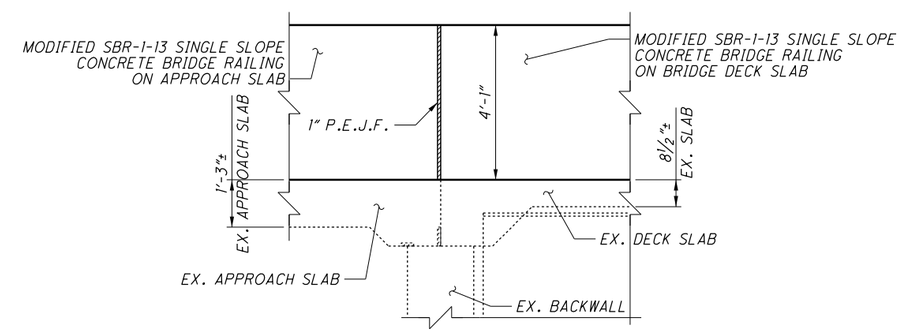
PARAPET DETAIL

SECTION APPLIES ON DECK SLAB AND ON APPROACH SLAB.

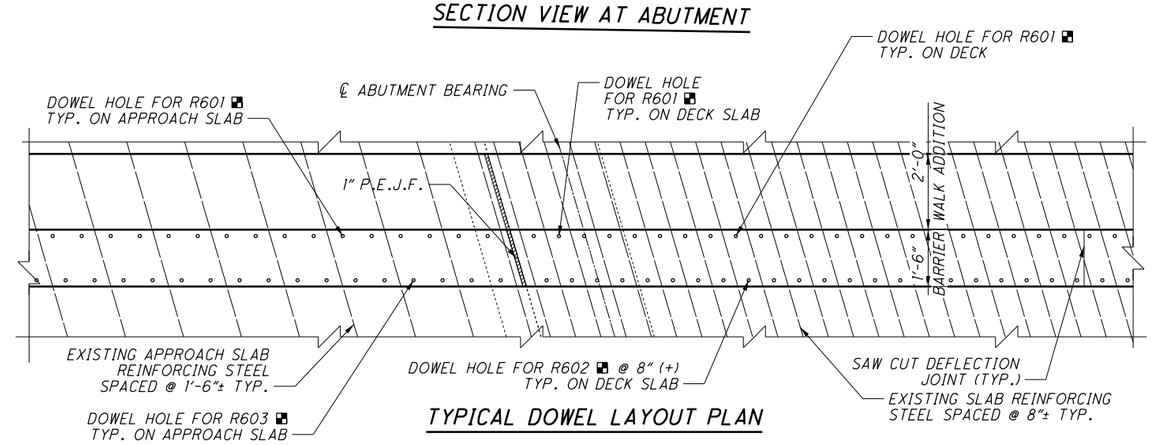
NOTES:

1. PREPARE EXISTING SURFACE IN ACCORDANCE WITH CM&S 519.04 AND AS PER ITEM 530 - SPECIAL, STRUCTURES: BRIDGE DECK SURFACE PREPARATION NOTE ON SHEET 2/3.
2. SEE STD. DWG. SBR-1-13 SINGLE SLOPE CONCRETE BRIDGE RAILING FOR SAW CUT AND DEFLECTION JOINT NOTES AND DETAILS.
3. LOCATE EXISTING REINFORCING STEEL WITH PACHOMETER PRIOR TO DRILLING DOWEL HOLES. SHIFT HOLES AS NECESSARY TO AVOID DAMAGING THE EXISTING #6 BARS.

■ R601 AND R602 DOWEL BARS, DOWEL 6" INTO EXISTING DECK SLAB. R601 AND R603 DOWEL 7 1/2" INTO EXISTING APPROACH SLAB. INSTALL WITH CMS 705.20 NON-SHRINK NONMETTALIC GROUT (TYP.)



SECTION VIEW AT ABUTMENT



TYPICAL DOWEL LAYOUT PLAN

DESIGN AGENCY
KORDA/NEMETH ENGINEERING, INC. - CONSULTING ENGINEERS
8500 Walton Parkway, Suite 200 - Columbus, OH 43235-1005
TEL. 614-487-1650 FAX 614-487-8881 WEB www.korda.com

DESIGNED	DRAWN	REVIEWED	DATE
ZLS	ZLS	BMV	5/17/2016
CHECKED	REVISED	STRUCTURE FILE NUMBER	
CAB	XXX	5500184	

TRANSVERSE SECTION
BRIDGE NO.: MIA-36-1176L
US 36 OVER I-75

MIA-EAST ASH STREET BIKEWAY
PID No. 97899

3 / 3

33 / 33

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