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CIVIL WEST CONSTRUCTION

VOLUME 6 RETAINING WALLS

PLAN PACKAGE INDEX / DESCRIPTION

CIVIL WEST CONSTRUCTION

VOLUME 1 - EXISTING CONDITIONS

VOLUME 2 - CIVIL

VOLUME 3 - TRACKWORK

VOLUME 4A - BRIDGES

VOLUME 4B - BRIDGES

VOLUME 5 - TUNNELS

VOLUME 6 - RETAINING WALLS

VOLUME 7 - UTILITIES

VOLUME 8 - DRAINAGE

VOLUME 9 - URBAN DESIGN / LANDSCAPE

VOLUME 10 - TRAFFIC / LIGHTING

VOLUME 11 - STATIONS

VOLUME 12 - SYSTEMS

THE PROPOSED SOUTHWEST LRT PROJECT IS NOT FINAL BUT IS STILL UNDER ENVIRONMENTAL REVIEW AND THE PROJECT IS SUBJECT TO CHANGE. THESE PLANS ARE NOT FINAL.

THE COUNCIL, THROUGH THE DEVELOPMENT OF THESE PLANS, DOES NOT INTEND THAT THEY WILL PREJUDICE OR COMPROMISE ANY STATE OR FEDERAL ENVIRONMENTAL REVIEW OR OTHER LEGAL REQUIREMENTS. THESE PLANS DO NOT LIMIT THE PROJECT DESIGN ALTERNATIVES OR MITIGATIVE MEASURES THAT THE COUNCIL MAY UNDERTAKE IF THE PROPOSED SWLRT PROJECT PROCEEDS TO CONSTRUCTION.

THE COUNCIL WILL NOT TAKE FINAL ACTION ON THIS MATTER UNLESS THE COUNCIL PROCEEDS WITH THE PROJECT AFTER THE FTA'S RECORD OF DECISION AND THE COUNCIL'S DETERMINATION OF ADEQUACY.

WARNING: THIS RECORD MAY CONTAIN SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSONS WITHOUT A "NEED TO KNOW", AS DEFINED IN 49 CFR PARTS 15 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATIOR OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION. FOR U.S. GOVERNMENT AGENCIES, PUBLIC DISCLOSURE IS GOVERNED BY 5 U.S.C. 552 AND 49 CFR PARTS 15 AND 1520.

60% SUBMISSION DATE: 09/28/15



		CIVIL WEST				CIVIL WEST				CIVIL WEST	
SHT#	SHEET NAME		ATION STATION RE	V SHT #	SHEET NAME	SHEET DESCRIPTION	STATION STATION RE	EV SHT# S	HEET NAME	SHEET DESCRIPTION	STATION STATION REV
		VOLUME 6 - RETAINING WALLS		73	RTW-W108-DTL	RTW-W108 GEOMETRY					
1		COVER SHEET		74	RTW-W122-PLE	RTW-W122 PLAN AND ELEVATION					
2	W0-RTW-IDX-001	VOLUME INDEX OF PLAN SHEETS		75	RTW-W122-DTL	RTW-W122 GEOMETRY					
3		GENERAL KEY MAP		76	RTW-W127-PLE	RTW-W127 PLAN AND ELEVATION		_			
4		GENERAL LEGEND AND ARREST (ATTIONS SHEET 1		77	RTW-W127-DTL	RTW-W127 GEOMETRY RTW-W208 PLAN AND ELEVATION					
5 6		GENERAL LEGEND AND ABBREVIATIONS SHEET 2 STRUCTURES NOTES, ABBREVIATIONS & SYMBOLS		78 79	RTW-W208-PLE RTW-W208-DTL	RTW-W208 PLAN AND ELEVATION RTW-W208 GEOMETRY		_			
7		PLAN SHEET LAYOUT SHEET 1		80	RTW-W303-PLE-001	RTW-W303 PLAN AND ELEVATION	0+50 8+00	-			
8		PLAN SHEET LAYOUT SHEET 2		81	RTW-W303-PLE-002	RTW-W303 PLAN AND ELEVATION	8+00 15+00	_			
9		PLAN SHEET LAYOUT SHEET 3		82	RTW-W303-PLE-003	RTW-W303 PLAN AND ELEVATION	15+00 18+25				
10		RTW-W112 PLAN AND ELEVATION		83	RTW-W303-DTL	RTW-W303 GEOMETRY	1 1 1 1 1 1 1 1 1				
11		RTW-W112 GEOMETRY		84	RTW-W206A-PLE	RTW-W206A PLAN AND ELEVATION					
12	RTW-W126-PLE	RTW-W126 PLAN AND ELEVATION		85	RTW-W206B-PLE	RTW-W206B PLAN AND ELEVATION					
13	RTW-W126-DTL	RTW-W126 GEOMETRY		86	RTW-W206C-PLE	RTW-W206C PLAN AND ELEVATION					
14	RTW-W205-PLE	RTW-W205 PLAN AND ELEVATION		87	RTW-W206D-PLE	RTW-W206D PLAN AND ELEVATION					
15		RTW-W205 GEOMETRY		88	RTW-W206E-PLE	RTW-W206E PLAN AND ELEVATION					
16		RTW-W215 PLAN AND ELEVATION		89	RTW-W206-DTL	RTW-W206 GEOMETRY		_			
17		RTW-W215 GEOMETRY		90	RTW-W125-PLE	RTW-W125 PLAN AND ELEVATION					
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29	RTW-W211-DTL	RTW-W211 GEOMETRY						1			l
30		RTW-W217 PLAN AND ELEVATION									
31		RTW-W217 GEOMETRY									
32		RTW-W301 PLAN AND ELEVATION									
33		RTW-W301 GEOMETRY									
34		RTW-W302A PLAN AND ELEVATION									
35 36		RTW-W302B PLAN AND ELEVATION RTW-W302C PLAN AND ELEVATION		-							
37		RTW-W302 GEOMETRY									
38		RTW-W305 PLAN AND ELEVATION		-							
39		RTW-W305 GEOMETRY									
40		RTW-W307B PLAN AND ELEVATION									
41	RTW-W307B-DTL	RTW-W307B GEOMETRY									
42	RTW-W308-PLE	RTW-W308 PLAN AND ELEVATION									
<u>4</u> 3	RTW-W308-DTL	RTW-W308 GEOMETRY									
¥ 44		RTW-W309 PLAN AND ELEVATION									
<u>.ĕ</u> 45		RTW-W309 GEOMETRY									
녹 46		RTW-W310 PLAN AND ELEVATION									
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<u>53</u>	RTW-W326-DTL	RTW-W326 GEOMETRY						1			l
54		RTW-W113 PLAN AND ELEVATION						1			l
<u>></u> 55	RTW-W113-DTL	RTW-W113 GEOMETRY						1			
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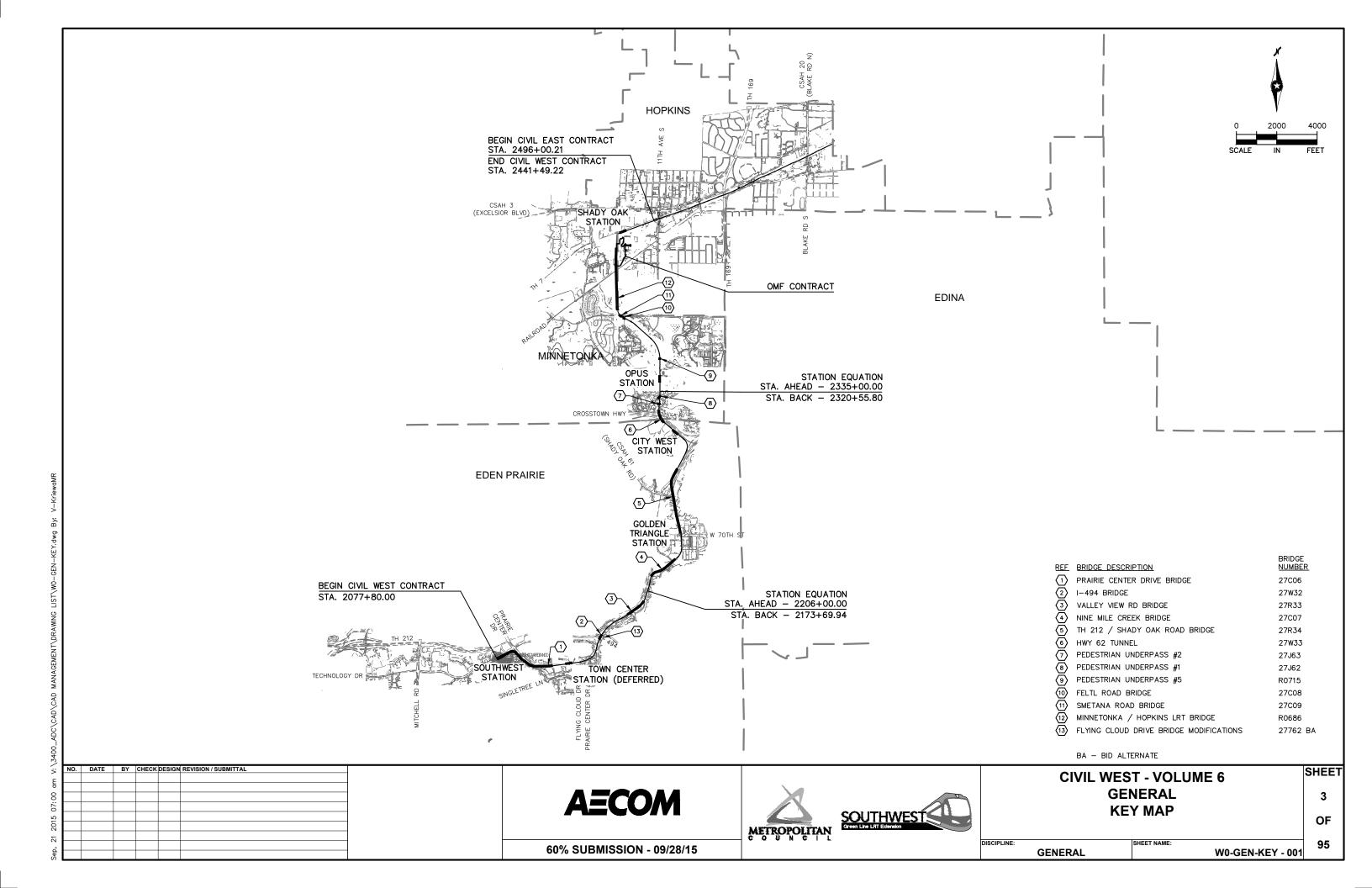
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DISCIPLINE:

GENERAL

SHEET NAME:

W0-RTW-IDX - 001



TRACK LINETYPES TRACK SYMBOLS — — — — ROADWAY Q PROPOSED DIRECTIONAL LANE USE * - TRACK € (LRT) — TRACK € (FRT) EXISTING DIRECTIONAL LANE USE **₩** RETAINING WALL BALLAST CURB PEDESTRIAN FLASHER ---- TUNNEL WALL AUTOMATIC GATE RAIL TURNOUT RAIL CROSSOVER (DOUBLE) FENCE / RAILING RAIL CROSSOVER (SINGLE) —— ID ——— ID ——— INTRUSION DETECTION φ POINT OF SWITCH (PS) CIVIL LINETYPES OCS POLE FOUNDATION - ---- - ROADWAY C RAIL LUBRICATOR - TRACK € (LRT) — TRACK ℚ (FRT) POINT OF INTERSECTION (PI) OF TURNOUT (TO) - RETAINING WALL (W2-200)RAILROAD CURVE NUMBER ---- BALLAST CURB ---- TUNNEL WALL ALL TURNOUTS AND CROSSOVERS TO BE EQUIPPED WITH POWER CONCRETE CURB AND GUTTER SWITCH MACHINES AND SWITCH HEATERS - SIDEWALK - DRIVEWAY CIVIL SYMBOLS - BRIDGE ----- SAWCUT ACCESSIBLE PEDESTRIAN CURB RAMP _× ____× ____ FENCE (DESIGN VARIES) PROPOSED DIRECTIONAL LANE USE - · - · · - · - · - WATER EDGE — – – — EX ROW 2₽ EXISTING DIRECTIONAL LANE USE — - - - - - PROP ROW ---- PROP TCE AUTOMATIC GATE HANDICAP PARKING STALL STOP BAR TACTILE WARNING STRIP \Box MEDIAN NOSE

SURVEY NOTES

- 1. THE HORIZONTAL DATUM OF THIS MAP IS BASED ON THE HENNEPIN COUNTY COORDINATE SYSTEM WHICH IS RELATED TO THE MINNESOTA STATE PLANE COORDINATE SYSTEM NAD 83 (2007) ADJUSTMENT SOUTH ZONE.
- 2. THE PLANIMETRIC FEATURES SHOWN ON THIS MAP ARE AS PREPARED BY AERO-METRIC, INC. FROM AERIAL DATA AND IMAGERY COLLECTED IN APRIL 2012, AS SUPPLEMENTED BY FIELD SURVEYS COMPLETED BY
- 3. HORIZONTAL POSITIONAL ACCURACY: USING THE NATIONAL STANDARD FOR SPATIAL DATA ACCURACY, THE DATA SET TESTED 0.14 FEET HORIZONTAL ACCURACY AT A 95% CONFIDENCE LEVEL.
- 4. VERTICAL POSITIONAL ACCURACY: USING THE NATIONAL STANDARD FOR SPATIAL DATA ACCURACY, THE DATA SET TESTED 0.10 FEET VERTICAL ACCURACY AT 95% CONFIDENCE LEVEL.

AECOM

TPSS BUILDING (TPSS-SW###)

SIGNAL OR INTERMEDIATE OR PLATFORM OR XING OR TUNNEL HOUSE OR ANY COMBINATION OF THESE





CIVIL WEST - VOLUME 6 GENERAL LEGEND AND ABBREVIATIONS SHEET 1

GENERAL

95

60% SUBMISSION - 09/28/15

SHEET

OF

W0-GEN-NTS - 001

ABBREVIATIONS

ALGEBRAIC DIFFERENCE AVE AVENUE BGN BP BEGIN BEGINNING POINT BVCE BEGINNING VERTICAL CURVE ELEVATION BEGINNING VERTICAL CURVE STATION RI VD **ROULEVARD** BURLINGTON NORTHERN SANTA FE RAILWAY BNSF CURB AND GUTTER C&G CENTERI INF € CIR CIRCLE CANADIAN PACIFIC CPRAIL CANADIAN PACIFIC RAILWAY CURVE TO SPIRAL
COUNTY STATE AID HIGHWAY CS CSAH D&U DF DRAINAGE AND UTILITY DIRECT FIXATION DR DRIVE DTL DETAIL DRIVEWAY ACTUAL SUPERELEVATION (INCHES) Εa ĒΒ EAST BOUND $\mathsf{EL} \ \mathsf{or} \ \mathsf{ELEV}$ **ELEVATION** FP FND POINT ESMT FASEMENT UNBALANCED SUPERELEVATION (INCHES) **EVCE** ENDING VERTICAL CURVE ELEVATION ENDING VERTICAL CURVE STATION **EVCS** EX **HCRRA** HENNEPIN COUNTY REGIONAL RAILROAD AUTHORITY LEFT HAND ΙN LANF LRT LIGHT RAIL TRANSIT CURVE LENGTH (FEET) SPIRAL LENGTH (FEET) Lc L_S MIN MINIMUM MILES PER HOUR MPI S CITY OF MINNEAPOLIS MINNEAPOLIS PARK AND RECREATION BOARD **MPRB** NORTH NORTH BOUND NIC NO NOT IN CONTRACT NUMBER OMF OPERATIONS AND MAINTENANCE FACILITY ocs OVERHEAD CONTACT SYSTEM OH PC OVERHEAD POINT OF CURVE PERMANENT EASEMENT PITO POINT OF INTERSECTION OF TURNOUT PKWY PARKWAY POT POINT ON TANGENT POINT OF SWITCH POINT OF TANGENT PS PT POINT OF VERTICAL INTERSECTION RADIUS (FEET) R RD ROAD RL RAIL LUBRICATOR RATE OF CHANGE VERTICAL CURVE r RH RIGHT HAND ROW RIGHT OF WAY SOUTH SOUTH BOUND SPIRAL TO CURVE SIGNAL COMMUNICATION SIG-COMM STREET SPIRAL TO TANGENT STA TCE NOITATE

TRAIL INDEX

ABBREVIATED NAME TRAIL 1 FULL NAME / LOCATION UNDER RED CIRCLE DR, LRT, AND YELLOW CIRCLE DR TRAIL 2 FROM TRAIL 1 TO GREEN CIRCLE DR OPUS STATION ACCESS FROM BREN RD E FROM BREN RD W TO TRAIL 5 TRAIL 3 TRAIL 4 TRAIL 5 FROM OPUS STATION TO GREEN CIRCLE DR TRAIL 6 FROM TRAIL 5 TO SMETANA RD CEDAR LAKE LRT REGIONAL TRAIL/FROM SHADY OAK STATION TO 11TH AVE CEDAR LAKE TRAIL CEDAR LAKE TRAIL CEDAR LAKE LRT REGIONAL TRAIL/WEST OF EXCELSIOR CEDAR LAKE TRAIL CEDAR LAKE LRT REGIONAL LRT TRAIL/BETWEEN EXCELSIOR AND KENILWORTH TRAIL CONNECTION MIDTOWN GREENWAY MIDTOWN GREENWAY/EAST OF KENILWORTH TRAIL CONNECTION TRAIL A KENILWORTH TRAIL (SECONDARY)/BETWEEN CEDAR-ISLES CHANNEL AND 21ST STREET STATION TRAIL B KENILWORTH TRAIL (SECONDARY)/BETWEEN 21ST STREET STATION AND PENN STATION TRAIL B CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION TRAIL C 10' CONNECTOR TRAÎL FROM CEDAR LAKE LRT REGIONAL TRAIL TO TYLER AVE. 10' CONNECTOR TRAIL/BELTLINE STATION TO CEDAR LAKE LRT REGIONAL TRAIL TRAIL D KENILWORTH TRAIL KENILWORTH TRAIL (MAIN)/W LAKE ST TO PENN STATION CEDAR LAKE TRAIL CEDAR LAKE TRAIL (MAIN)/PENN STATION TO TH 394 KENILWORTH TRAIL (SECONDARY)/EAST OF W LAKE ST TRAIL E TRAIL F KENILWORTH TRAIL (SECONDARY)/WEST OF CEDAR LAKE PKWY KENILWORTH TRAIL (SECONDARY)/WEST OF PENN STATION TRAIL G CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION

10' CONNECTOR TRAIL/EAST OF PENN STATION TO KENWOOD PKWY TRAIL G TRAIL H TRAIL CEDAR LAKE TRAIL (MAIN)/AT-GRADE CROSSING AT PENN STATION CEDAR LAKE TRAIL CEDAR LAKE TRAIL (SECONDARY)/NORTHWEST OF PENN STATION CEDAR LAKE TRAIL (SECONDARY)/NORTHWEST OF PENN STATION TRAIL J TRAIL K TRAIL L CEDAR LAKE TRAIL (SECONDARY)/EAST OF PENN STATION TRAIL N 8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO EDGEBROOOK DRIVE TRAIL O 8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO W LAKE STREET 8' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO LOUISIANA AVE TRAIL P 10' CONNECTOR TRAIL FROM CEDAR LAKE TRAIL TO TH 7 SERVICE ROAD TRAIL Q TRAIL R 20' CONNECTOR TRAIL FROM VAN WHITE STATION TO CEDAR LAKE TRAIL TRAIL S TRAIL T 8' CONNECTOR TRAIL FROM VAN WHITE STATION TO VAN WHITE MEMORIAL BLVD TRAIL U 10' TRAIL PARALLEL TO CEDAR LAKE PKWY LUCE LINE TRAIL LUCE LINE REGIONAL TRAIL/ON BRIDGE OVER LIGHT RAIL CONNECTOR TRAIL TO LUCE LINE REGIONAL TRAIL WEST OF LIGHT RAIL CONNECTOR TRAIL TO LUCE LINE REGIONAL TRAIL WEST OF LIGHT RAIL TRAIL W

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TEMPORARY CONSTRUCTION EASEMENT

TRACTION POWER SUBSTATION

TRUNK HIGHWAY

TANGENT TO SPIRAL

VERTICAL CURVE

WEST BOUND

DATE BY CHECK DESIGN REVISION / SUBMITTA

DESIGN VELOCITY (MPH)

THROUGH TOP OF RAIL

TYPICAL UNDERGROUND







CIVIL WEST - VOLUME 6 GENERAL LEGEND AND ABBREVIATIONS

SHEET

5

OF

DISCIPI INF

GENERAL

SHEET 2 95 W0-GEN-NTS - 002

THRU

TOR

TS TYP

UG

VC

WB

ABBREVIATION LIST:

	 		
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY	N	NORTH
	AND TRANSPORTATION OFFICIALS	NB	NORTH BOUND
ABT	ABOUT	NBL	NORTH BOUND LANE(S)
ABUT	ABUTMENT	NO	NUMBER
ADT	AVERAGE DAILY TRAFFIC	OC	ON CENTER
APPROX	APPROXIMATE (OR APPROXIMATELY)	OFF	OFFSET
ASSY	ASSEMBLY	PC	POINT OF CURVATURE
AVE	AVENUE	PCC	POINT OF COMPOUND CURVE
ΑZ	AZIMUTH	PG	PROFILE GRADE
0	AT	PI	POINT OF INTERSECTION
BF	BACK FACE	PL	PLATE
BIT	BITUMINOUS	POC	POINT OF CURVE
ВМ	BENCH MARK	POT	POINT OF TANGENT
ВМ	BEAM	PSI	POUNDS PER SQUARE INCH
ВОТ	BOTTOM	PT	POINT OF TANGENCY
BR	BRIDGE	PKWY	PARKWAY
BRG	BEARING	PED	PEDESTRIAN
BTWN	BETWEEN	PERF	PERFORATED
C-I-P	CAST-IN-PLACE	PT	POINT
ę ·	CENTERLINE	R .	RADIUS
CJ	CONSTRUCTION JOINT	ROW	RIGHT OF WAY
CLR	CLEAR	RDWY	ROADWAY
COL		REINF	REINFORCED (OR REINFORCING/MENT)
CONC	COLUMN		, , ,
	CONCRETE	REQ'D	REQUIRED
CONST	CONSTRUCTION	RT	RIGHT
CASH	COUNTY AND STATE HIGHWAY	S	SOUTH
DIA	DIAMETER	SB	SOUTH BOUND
DIAPH	DIAPHRAGM	SBL	SOUTH BOUND LANE(S)
DL	DEADLOAD	SDWK	SIDEWALK
DML	DOWEL	SER	SERIES
E	EAST	SHLDR	SHOULDER
EB	EAST BOUND	SP	SPACES
EBL	EAST BOUND LANE(S)	SPA	SPACED
EA	EACH	SPG	SPACING
EF	EACH FACE	ST	STREET
EJ	EXPANSION JOINT	STA	STATION
EL	ELEVATION	STD	STANDARD
EMBED	EMBEDMENT	STRUCT	STRUCTURAL
ENGR	ENGINEER	SYM	SYMMETRICAL
EQ	EQUAL	TH	TRUNK HIGHWAY
EXP	EXPANSION	TOR	TOP OF RAIL
FF	FRONT FACE	TTC	TANGENT TO CURVE
FIN	FINISHED	TYP	TYPICAL
FIX	FIXED	VC	VERTICAL CURVE
FTG	FOOTING	VPC	VERTICAL POINT OF CURVATURE
GALV	GALVANIZED	VPI	VERTICAL POINT OF INTERSECTION
HORIZ	HORIZONTAL	VPT	VERTICAL POINT OF TANGENCY
HS	HIGH STRENGTH	VAR	VARIES
JCT	JUNCTION	VERT	VERTICAL
JT	JOINT	W	WEST
LT	LEFT	WB	WEST BOUND
MAX	MAXIMUM	WBL	WEST BOUND LANE(S)
MIN	MINIMUM	WC	WEARING COURSE
MISC	MISCELLANEOUS	WP	WORKING POINT
		WW	WINGWALL
		44.44	WINGWALL

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM





CIVIL WEST - VOLUME 6 RETAINING WALLS STRUCTURAL NOTES, ABBREVIATIONS & SYMBOLS

STRUCTURES

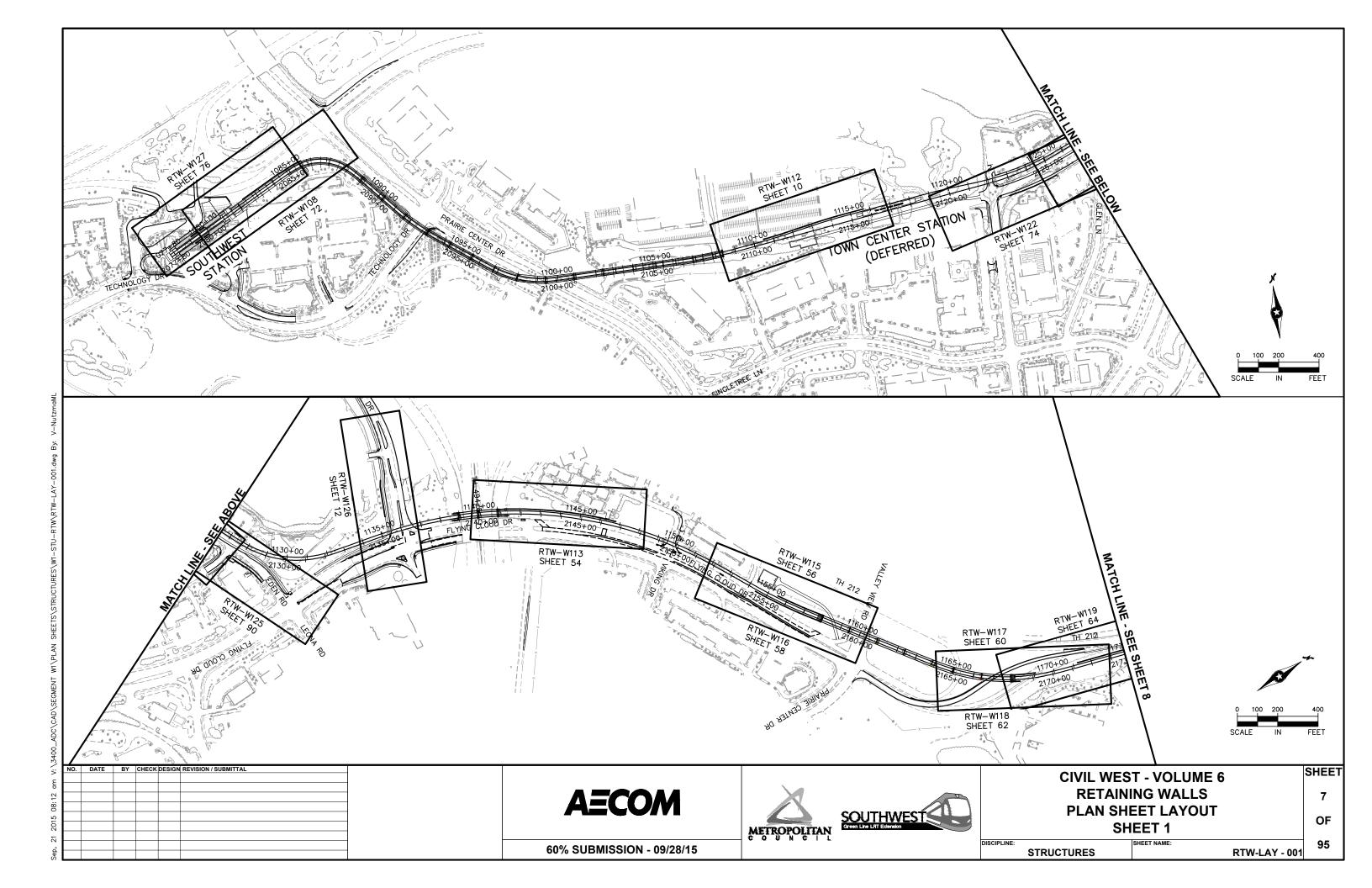
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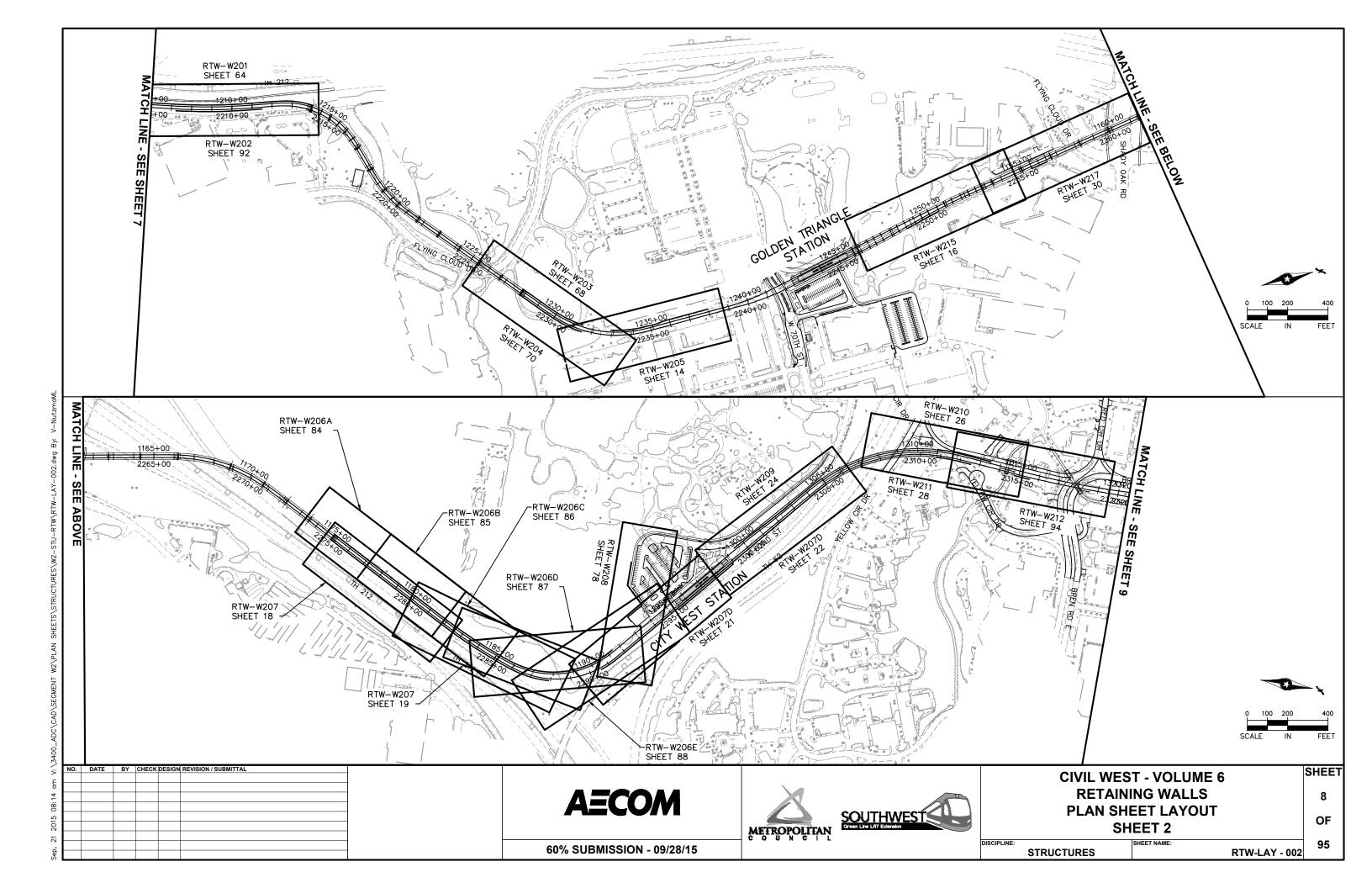
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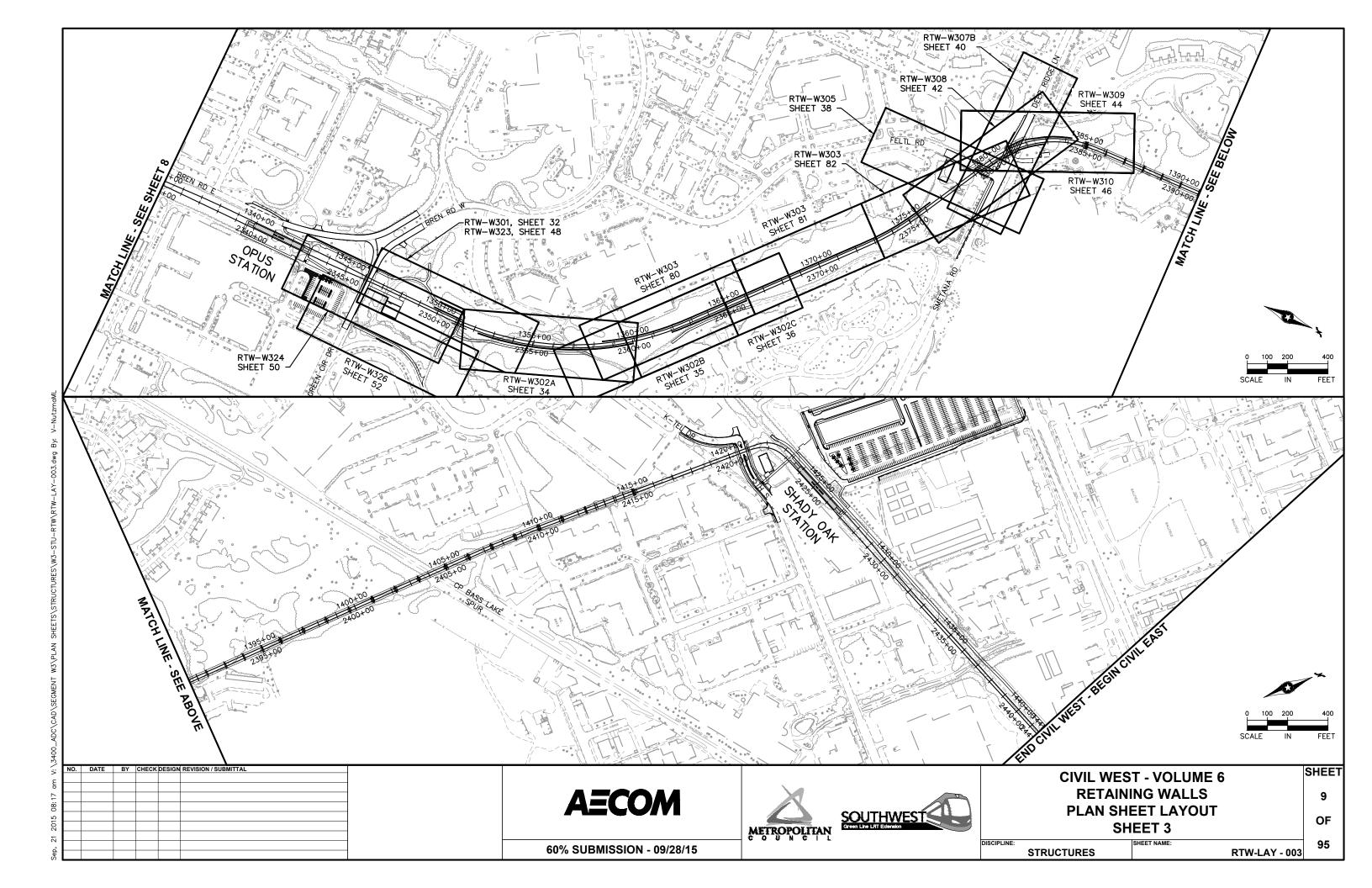
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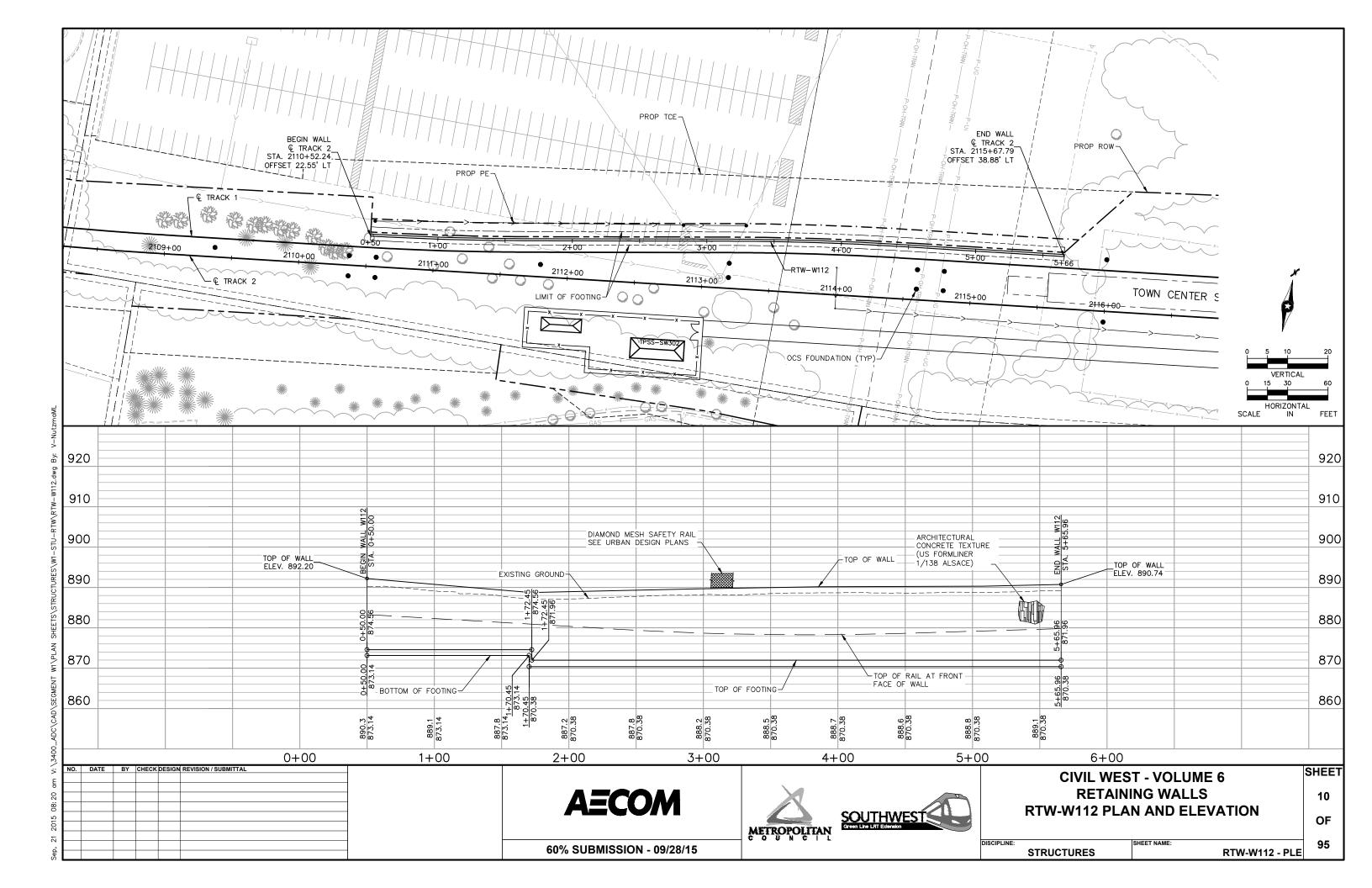
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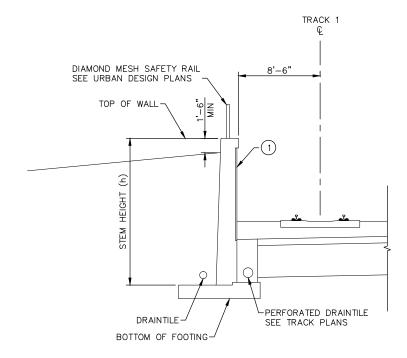
95 RTW-NTS - 001











- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- 2. RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W112 SECTION NOT TO SCALE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W112 GEOMETRY

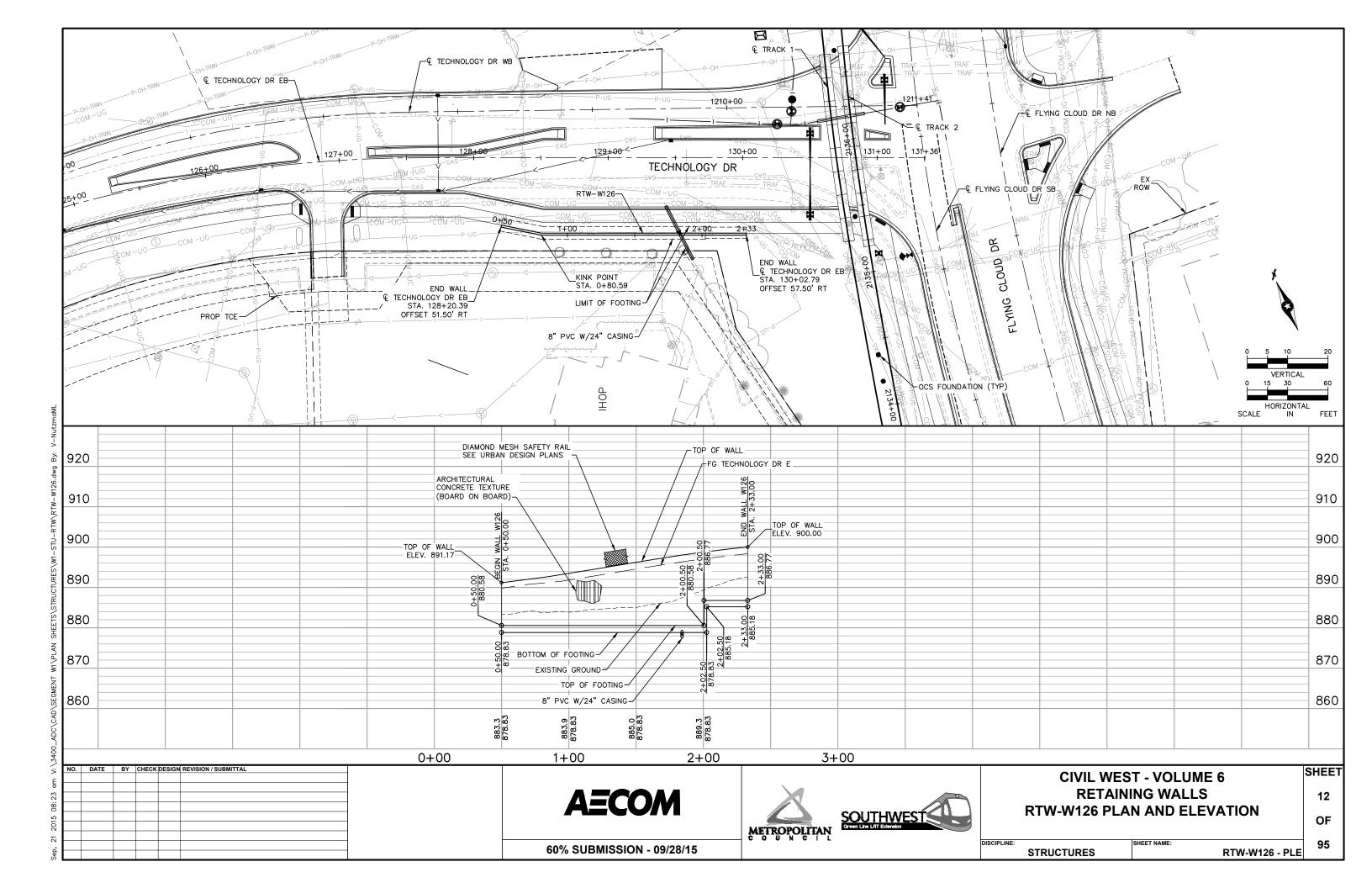
11 OF

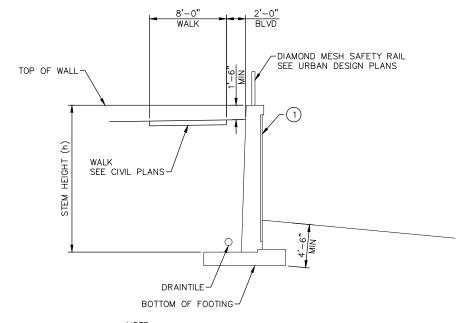
SHEET

60% SUBMISSION - 09/28/15

STRUCTURES

RTW-W112 - DTL





- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- 2. RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W126 SECTION NOT TO SCALE

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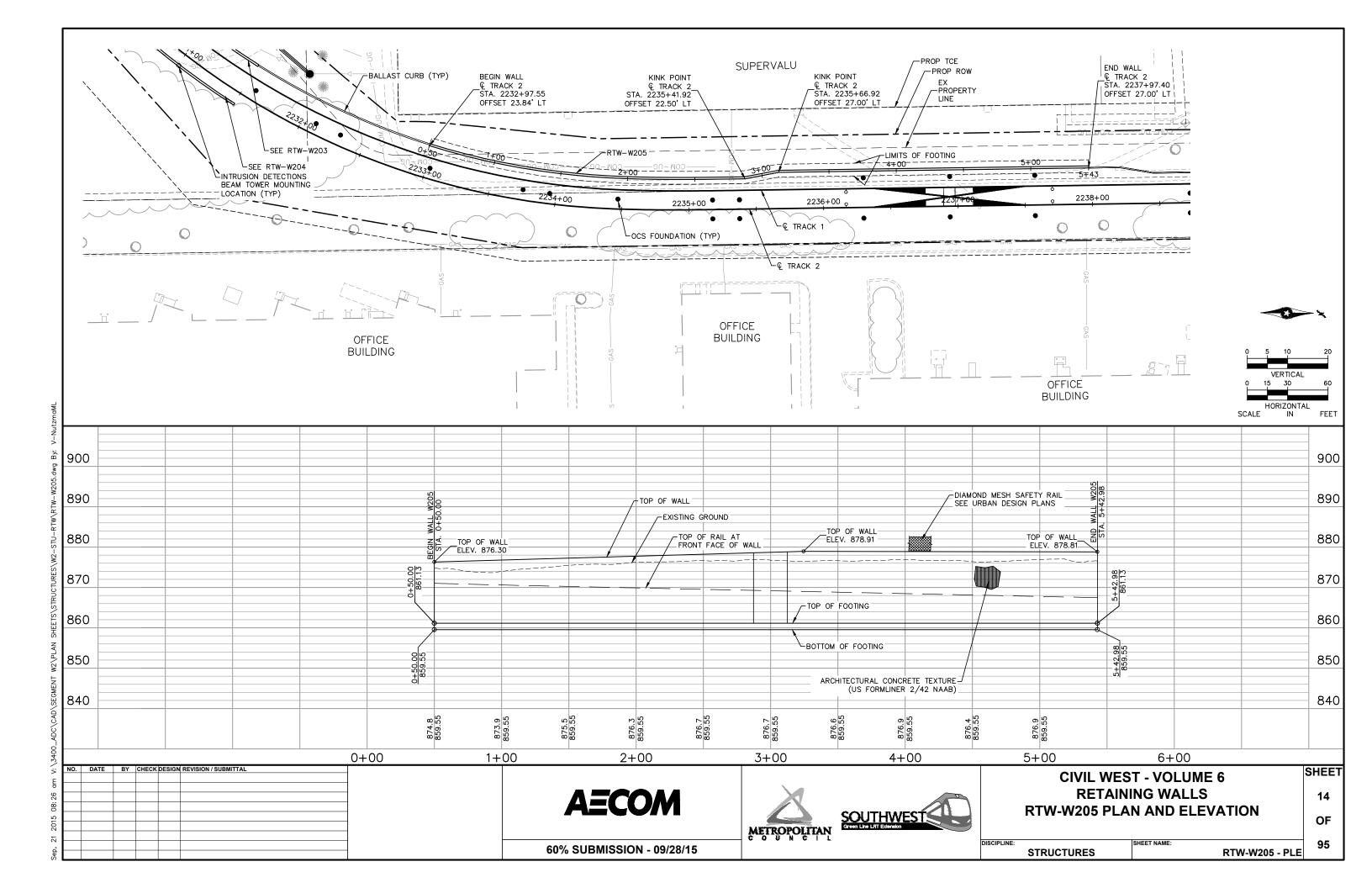
CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W126 GEOMETRY

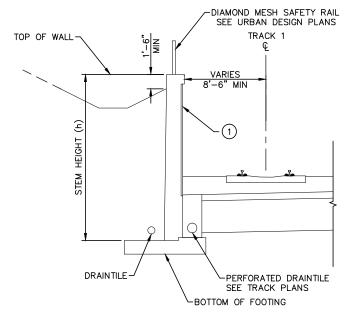
13 OF

SHEET

60% SUBMISSION - 09/28/15

RTW-W126 - DTL **STRUCTURES**





- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- 2 RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W205 SECTION NOT TO SCALE

AECOM





CIVIL WEST - VOLUME 6
RETAINING WALLS
RTW-W205 GEOMETRY

15 OF

SHEET

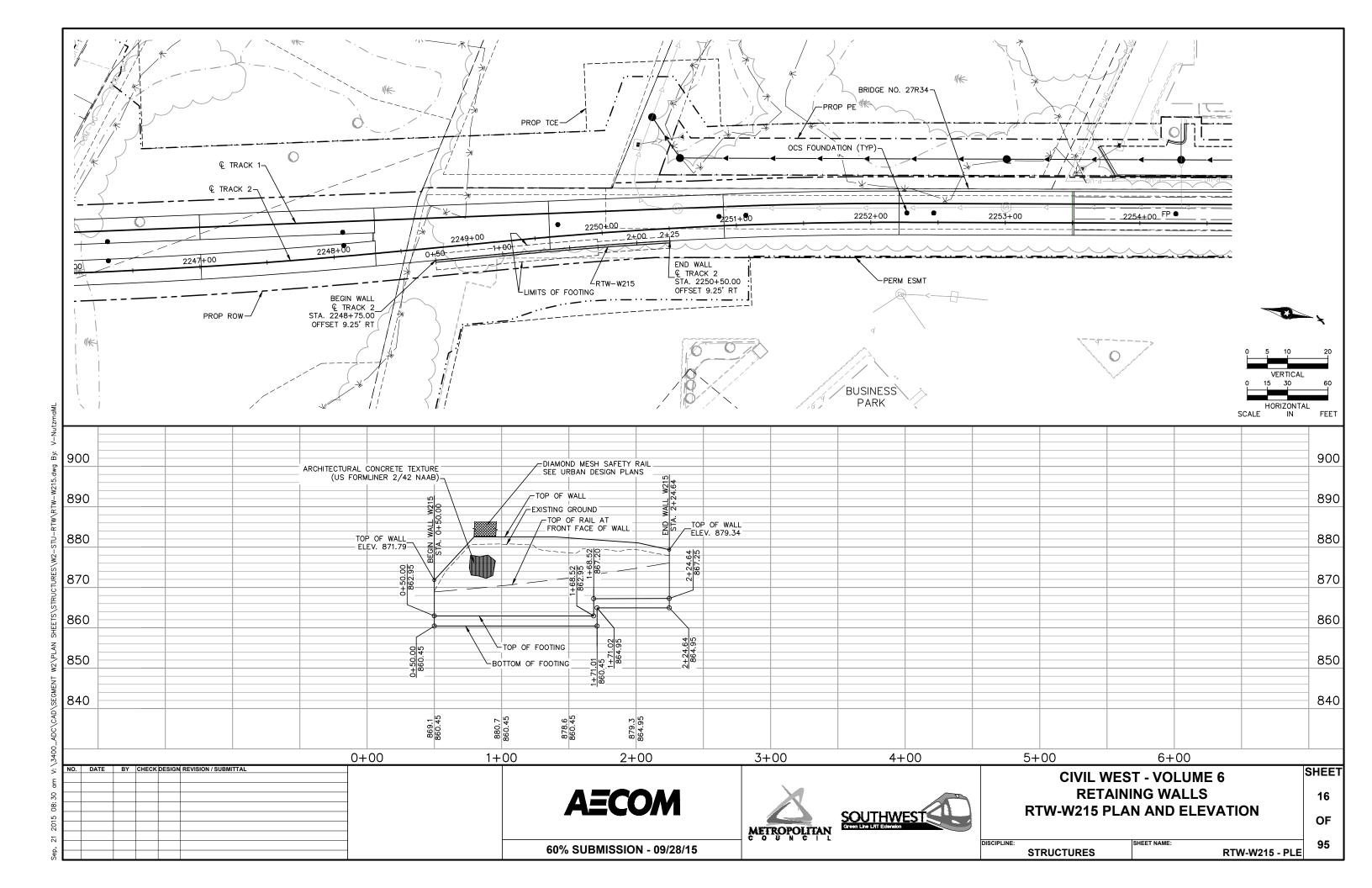
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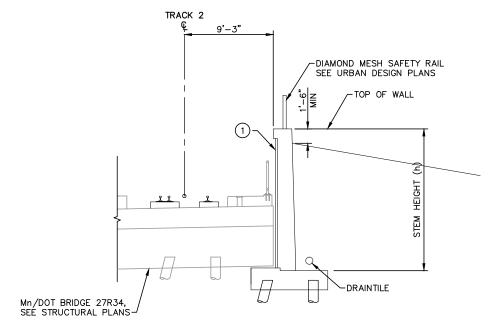
SHEET NAME:

RTW-W205 - DTL

60% SUBMISSION - 09/28/15

STRUCTURES





NOTE: ARCHITECTURAL CONCRETE TEXTURE

2 RETAINING WALL TO BE PILE SUPPORTED CIP

RTW-W215 SECTION NOT TO SCALE

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CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W215 GEOMETRY

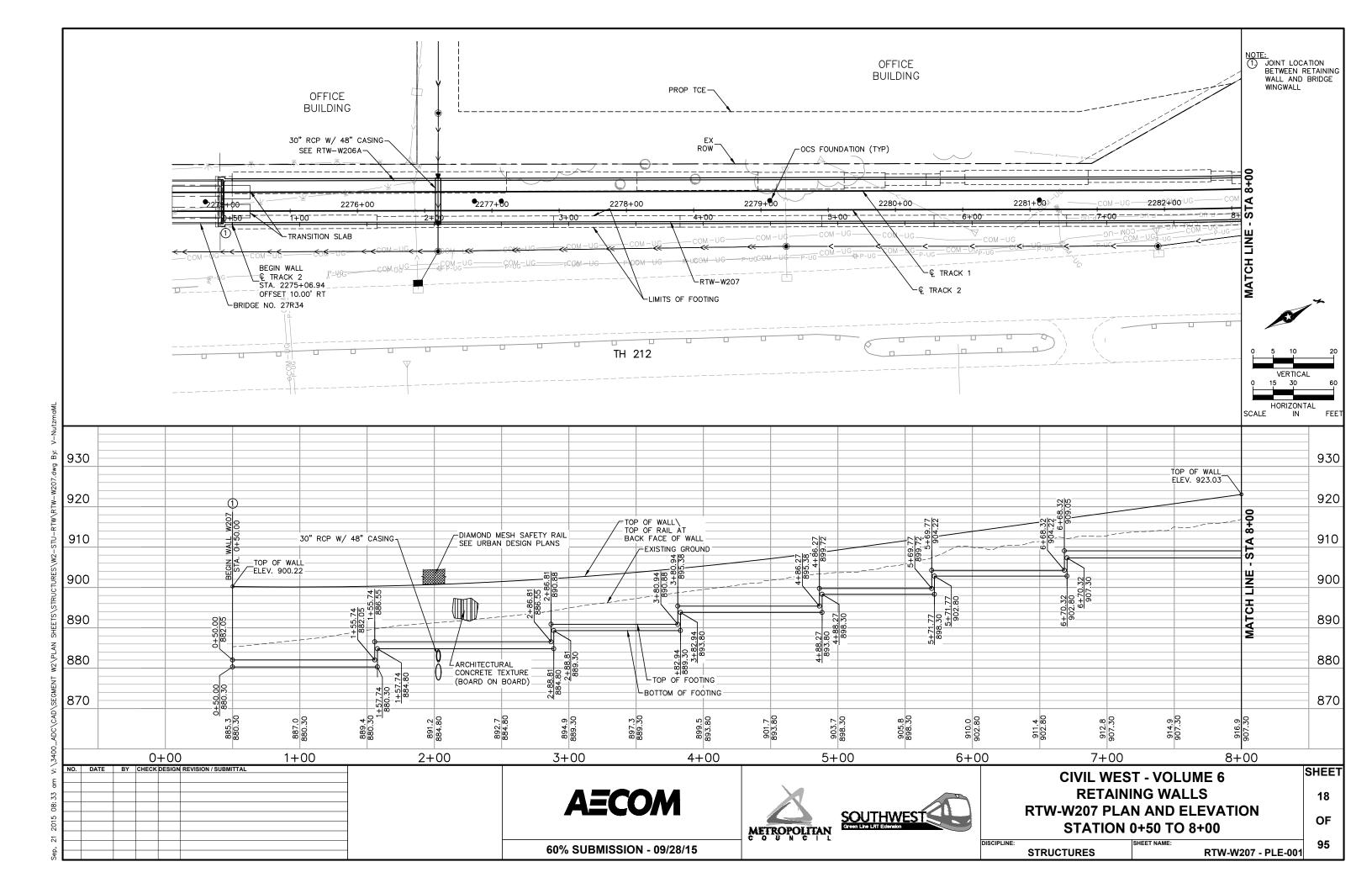
17 OF

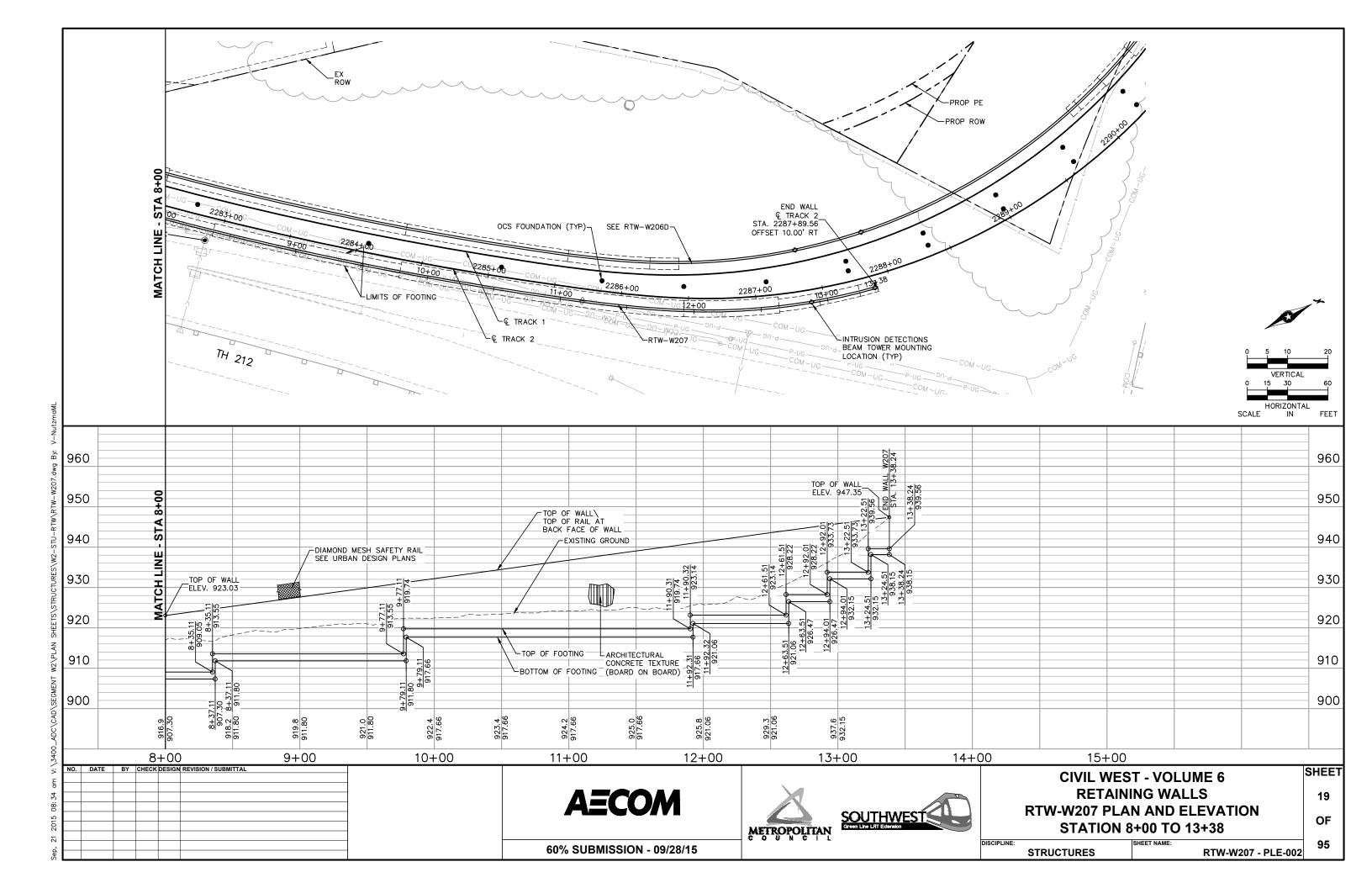
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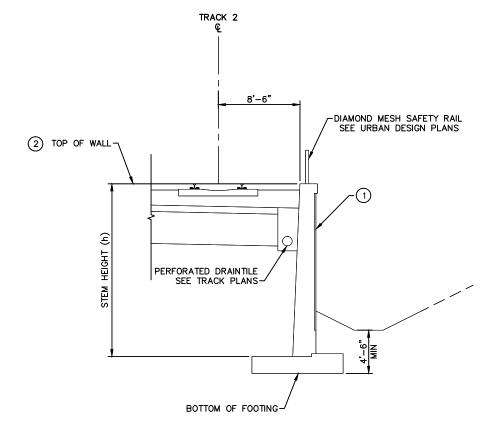
DISCIPLINE:

60% SUBMISSION - 09/28/15

RTW-W215 - DTL STRUCTURES







- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- (2) TOP OF WALL = TOP OF RAIL THROUGH TANGENTS
 TOP OF WALL = TOP OF RAIL + SUPERELEVATION (Eq)
 THROUGH OUTSIDE CURVES AND SPIRALS
- 3 RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W207 SECTION NOT TO SCALE

AECOM





CIVIL WEST - VOLUME 6
RETAINING WALLS
RTW-W207 GEOMETRY

20 OF

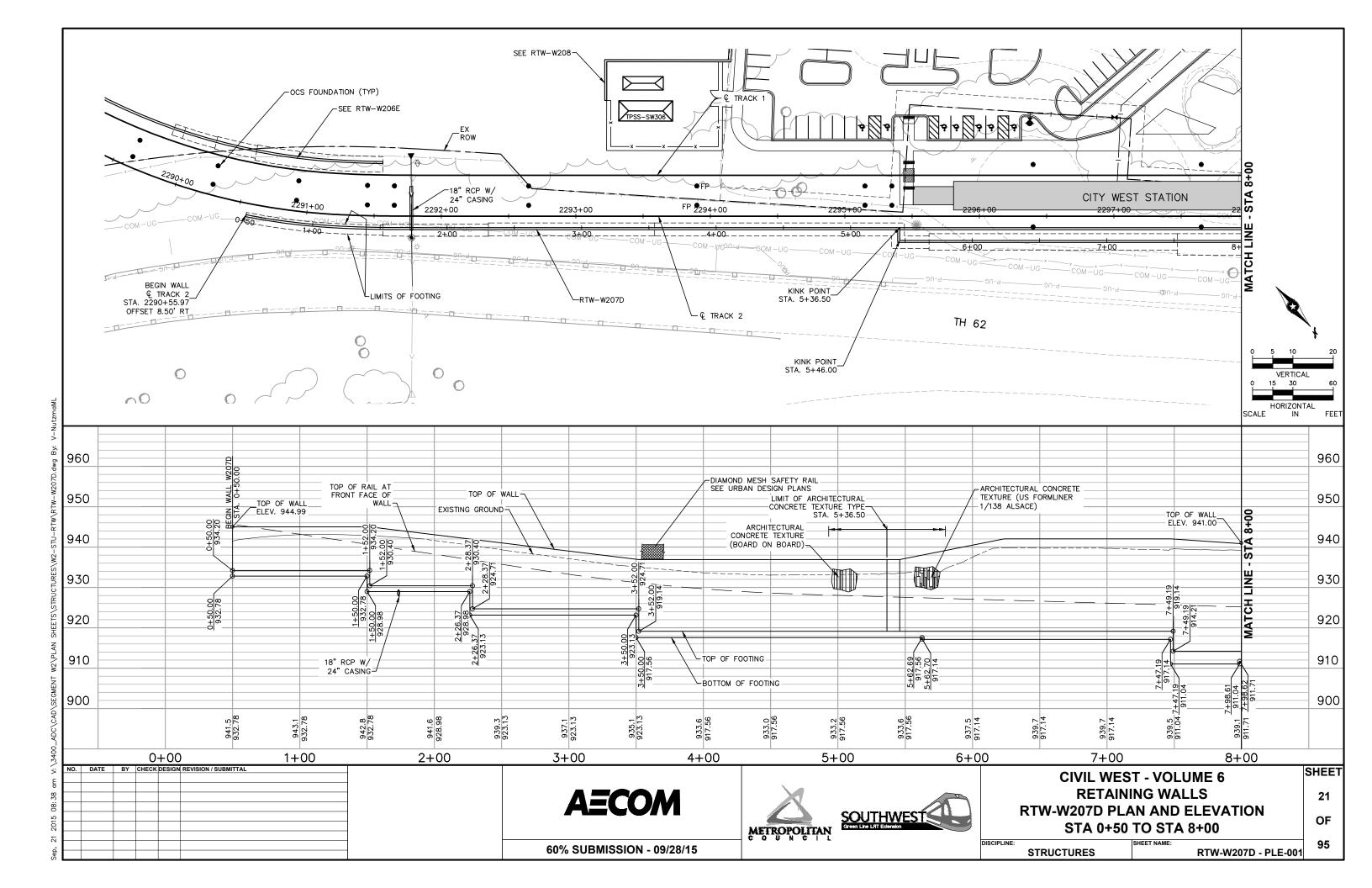
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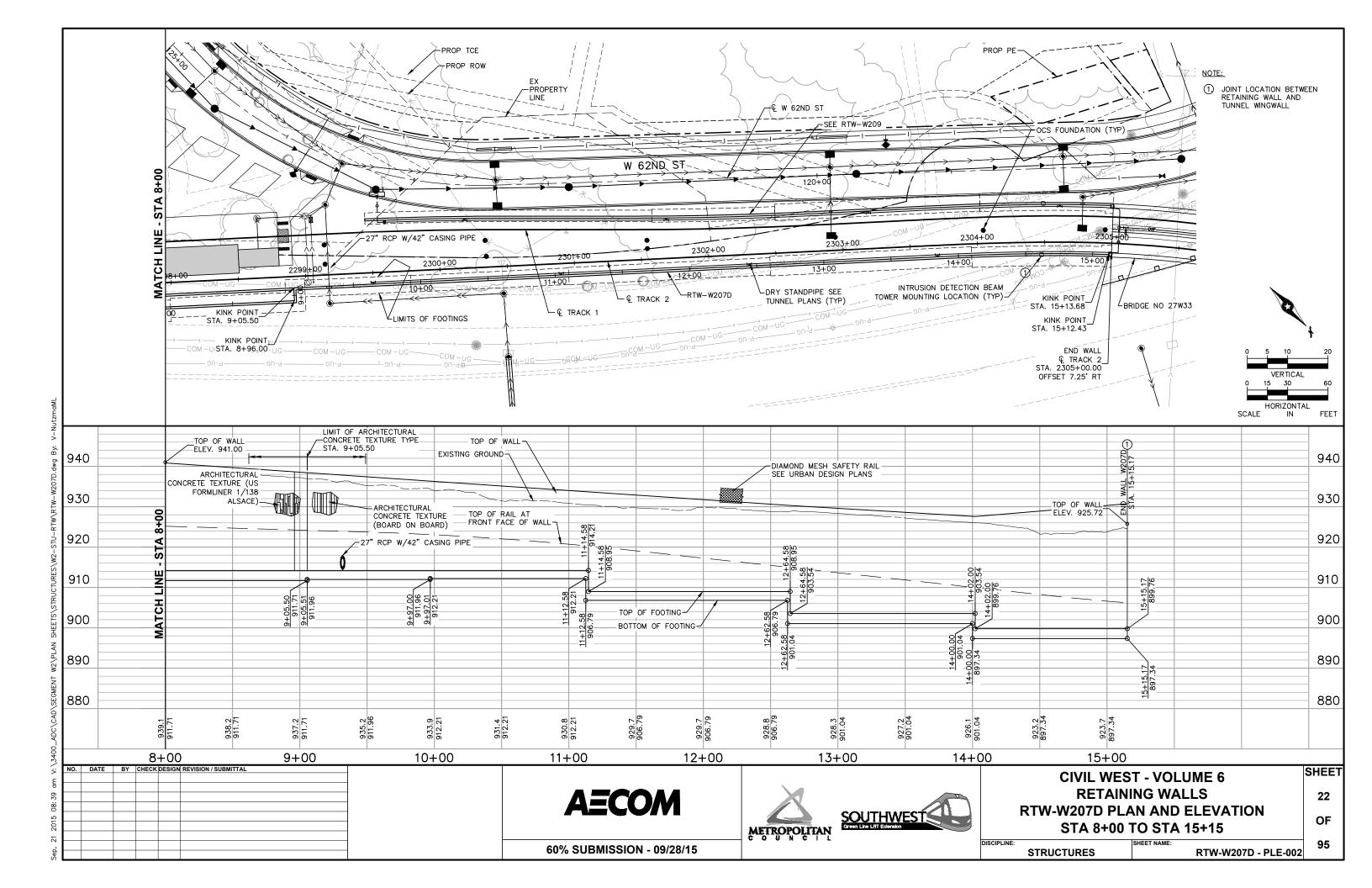
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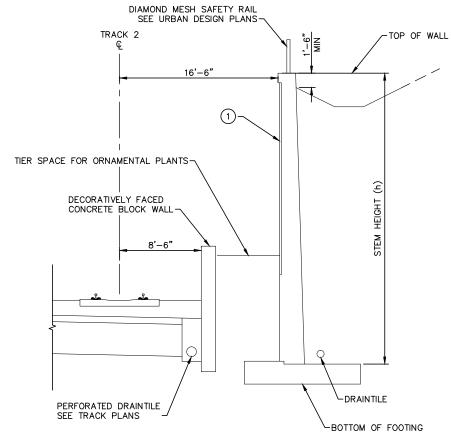
STRUCTURES

RTW-W207 - DTL 95

60% SUBMISSION - 09/28/15

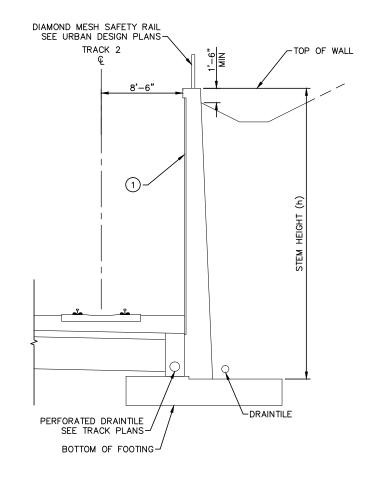






- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- 2 RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W207D SECTION STA. 5+37 TO STA. 9+06 NOT TO SCALE



- NOTE: ARCHITECTURAL CONCRETE TEXTURE
- 2 RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W207D SECTION STA. 0+50 TO STA. 5+37 AND STA. 9+06 TO 15+15 NOT TO SCALE

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CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W207D GEOMETRY

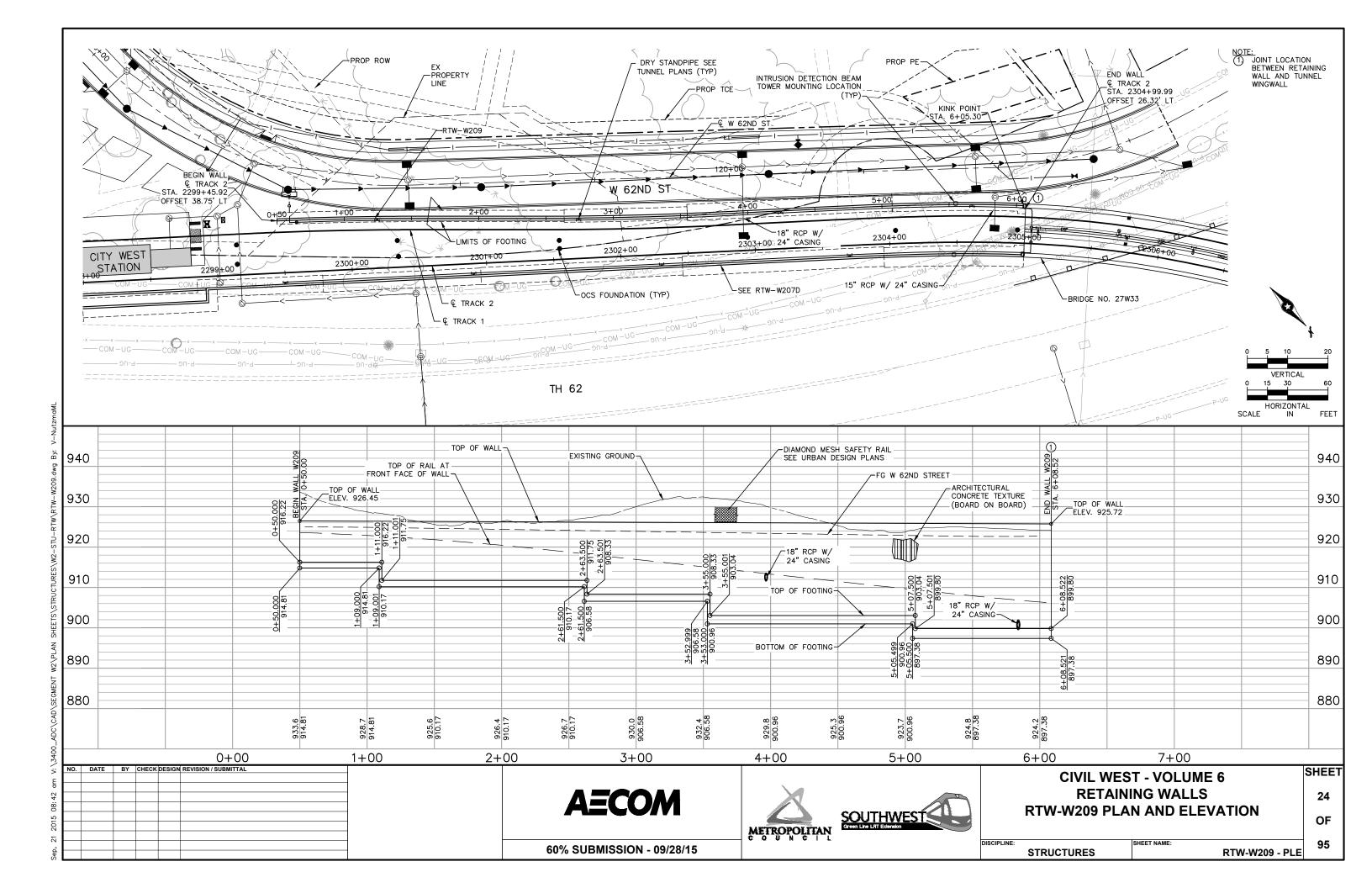
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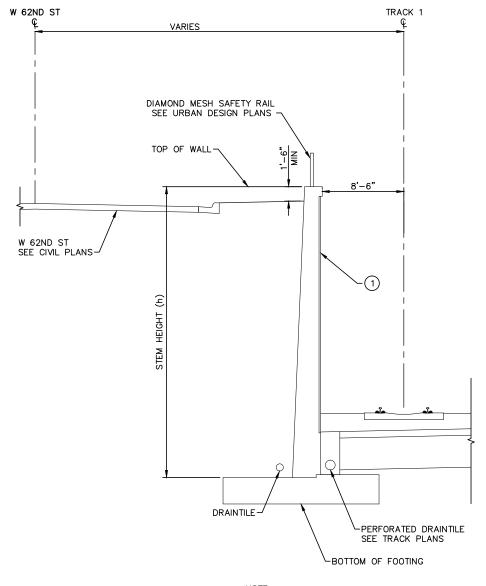
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DISCIPLINE: **STRUCTURES**

RTW-W207D - DTL

60% SUBMISSION - 09/28/15





NOTE: ARCHITECTURAL CONCRETE TEXTURE

2 RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W209 SECTION NOT TO SCALE

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CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W209 GEOMETRY

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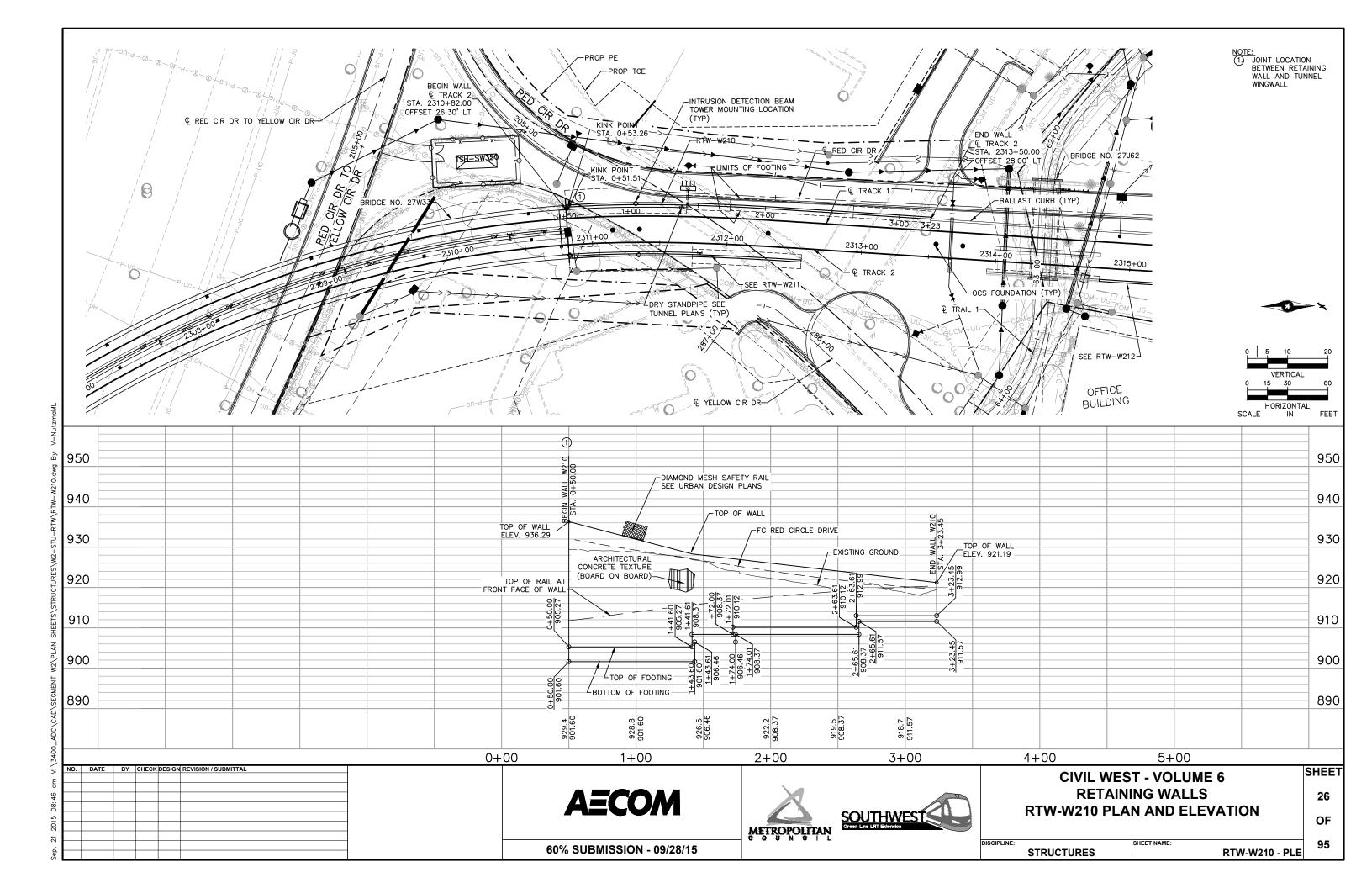
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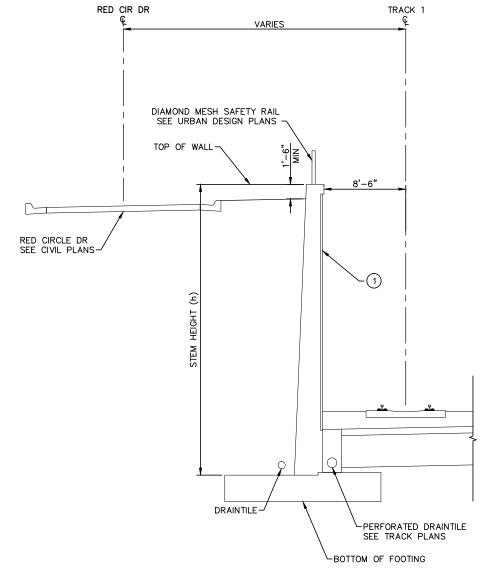
STRUCTURES

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60% SUBMISSION - 09/28/15

RTW-W209 - DTL





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NOTE:
ARCHITECTURAL CONCRETE TEXTURE

2 RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W210 SECTION NOT TO SCALE

NO. DATE BY CHECK DESIGN REVISION / SUBMITTAL

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CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W210 GEOMETRY

27 OF

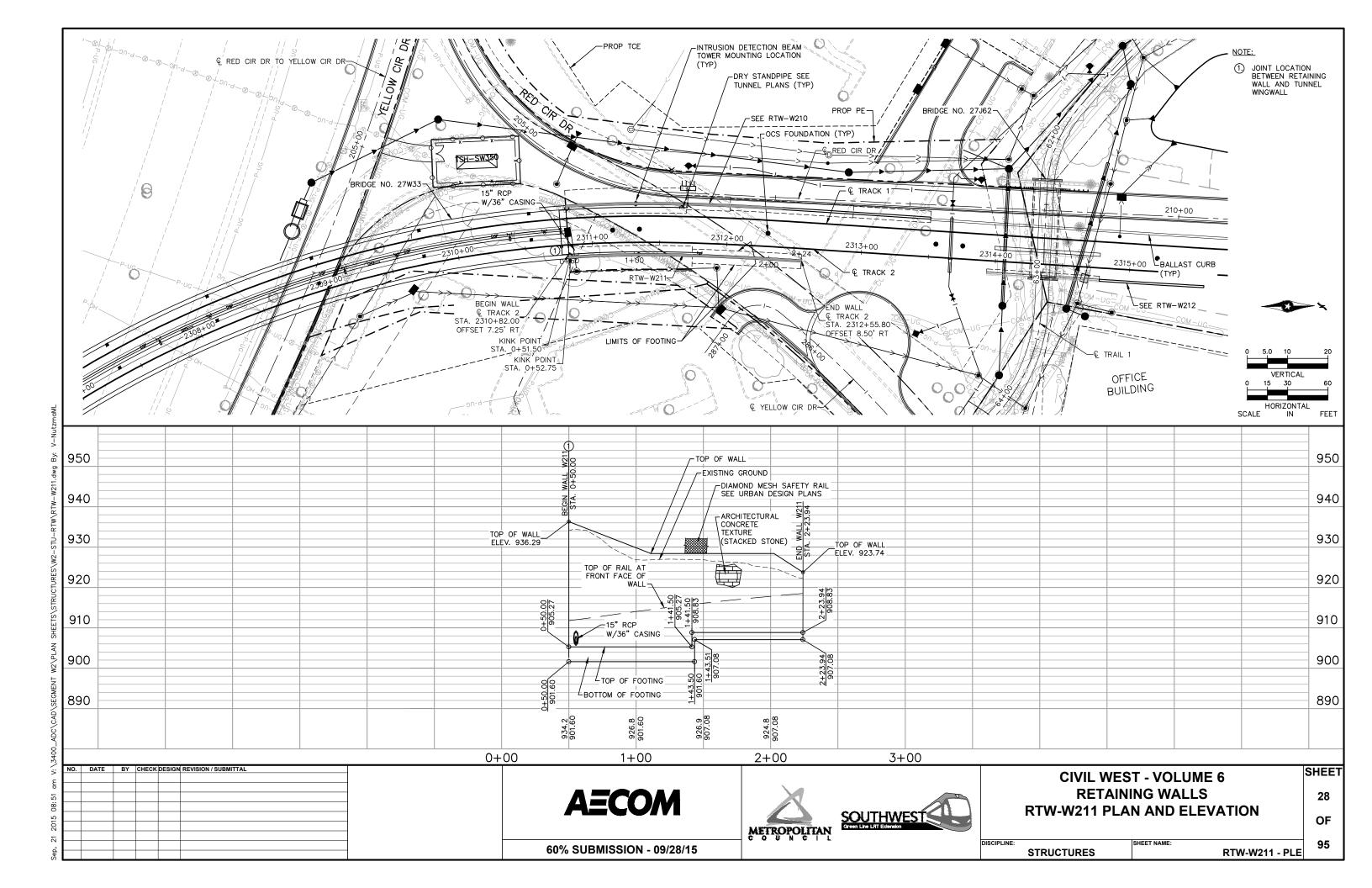
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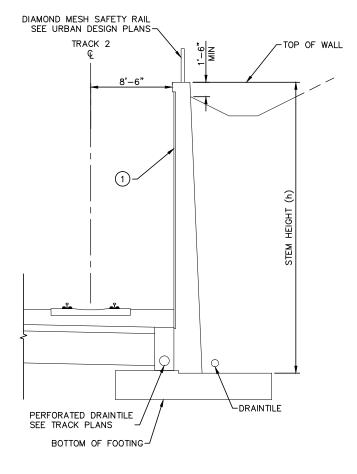
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RTW-W210 - DTL

60% SUBMISSION - 09/28/15

STRUCTURES





NOTE:
ARCHITECTURAL CONCRETE TEXTURE

2 RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W211 SECTION NOT TO SCALE

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CIVIL WEST - VOLUME 6
RETAINING WALLS
RTW-W211 GEOMETRY

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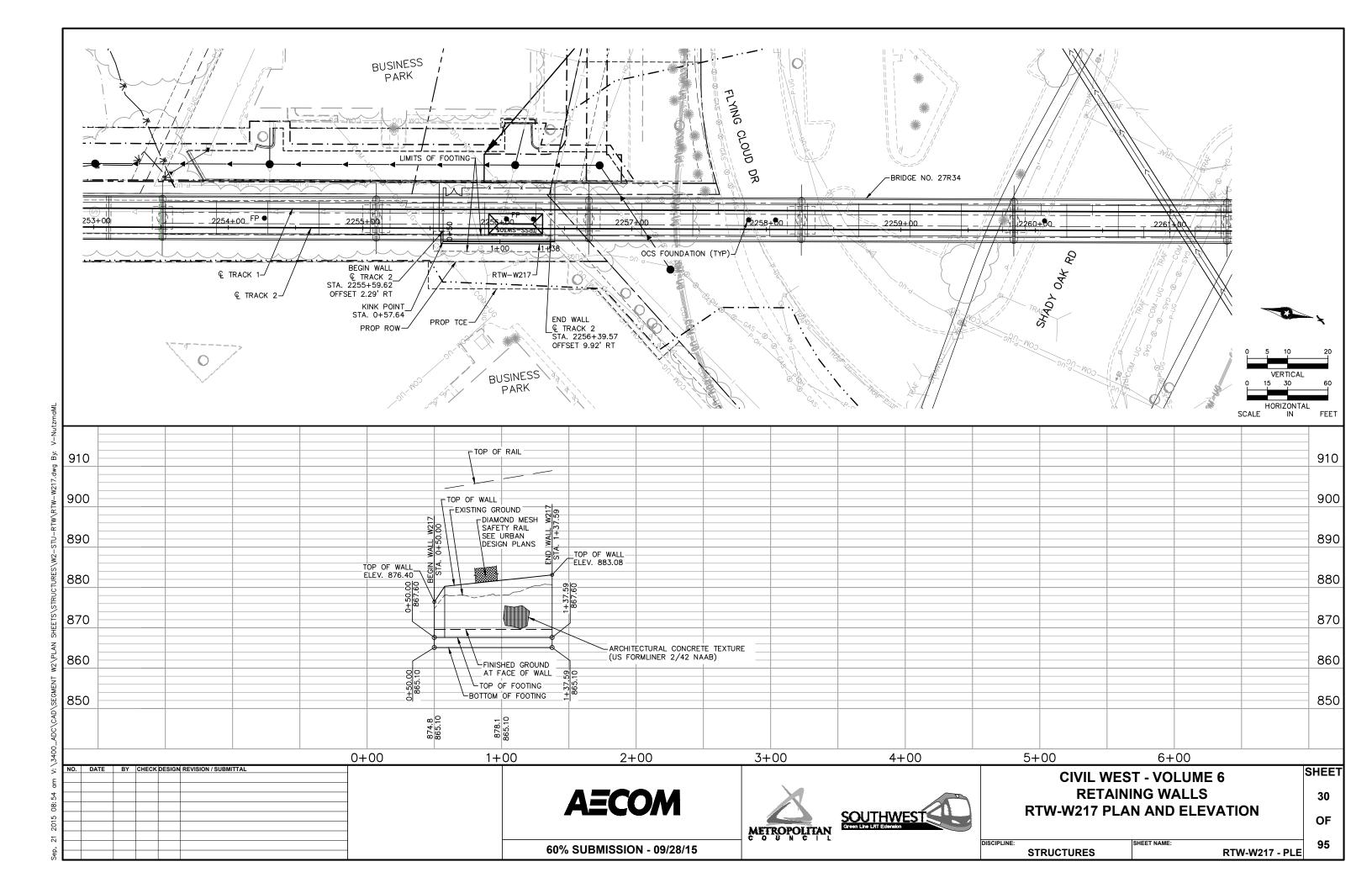
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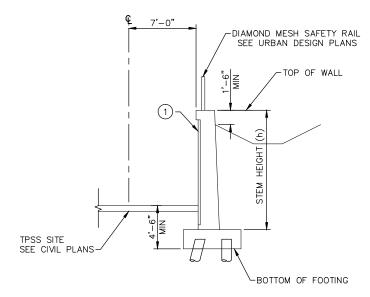
STRUCTURES

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60% SUBMISSION - 09/28/15

RTW-W211 - DTL





NOTE:
ARCHITECTURAL CONCRETE TEXTURE

2 RETAINING WALL TO BE PILE SUPPORTED CIP RTW-W217 SECTION NOT TO SCALE

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CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W217 GEOMETRY

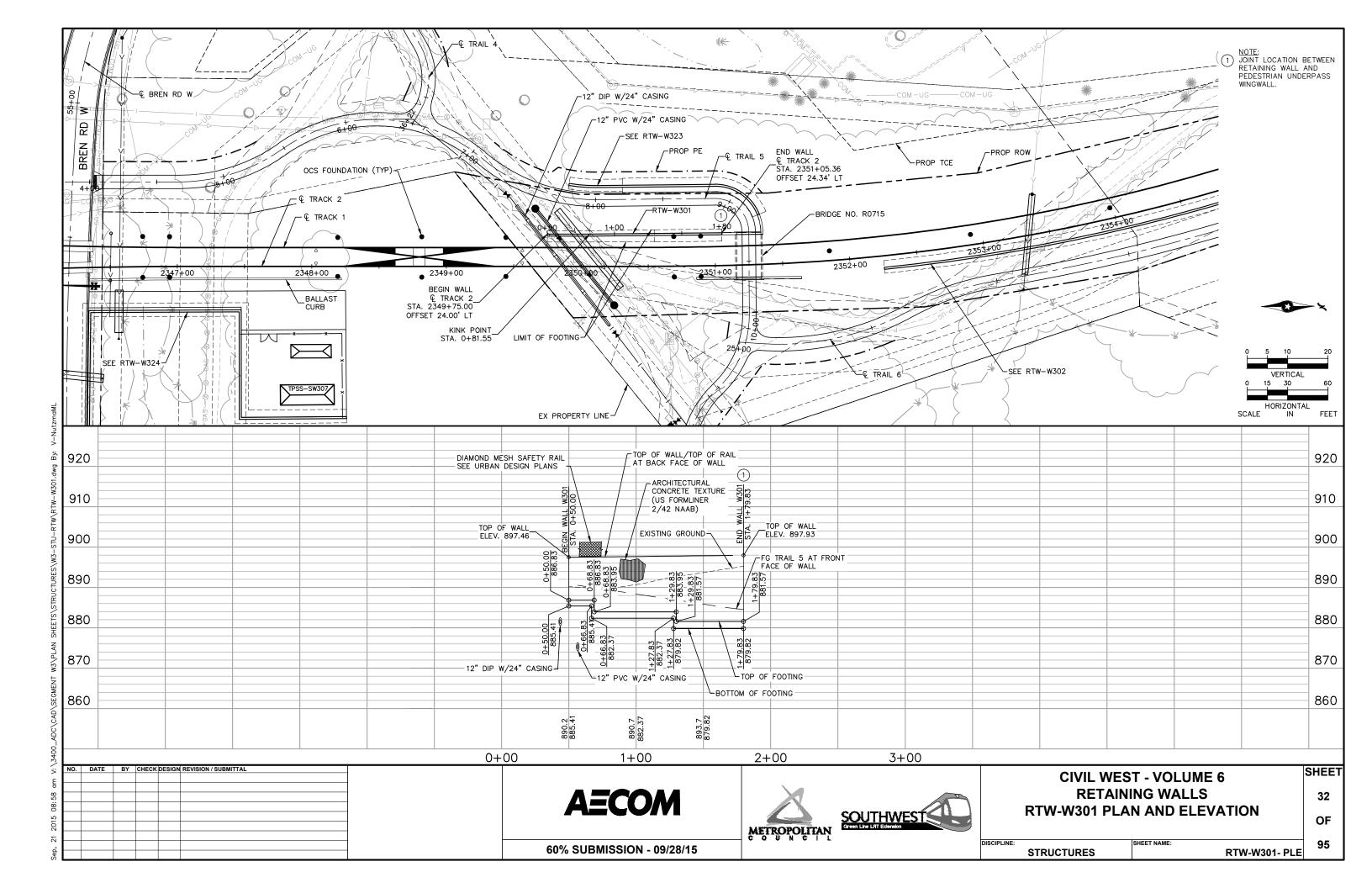
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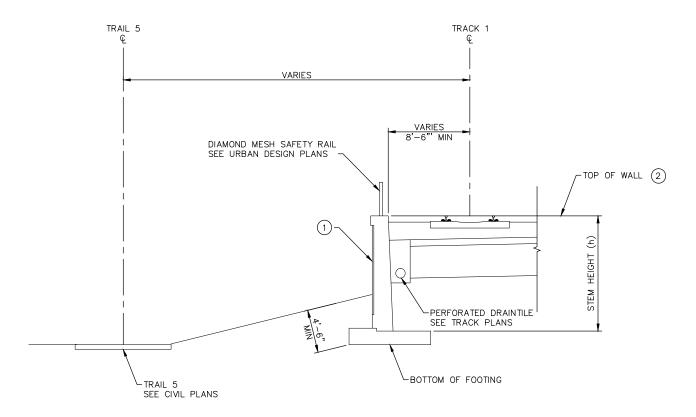
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STRUCTURES

60% SUBMISSION - 09/28/15

RTW-W217 - DTL





- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- TOP OF WALL = TOP OF RAIL THROUGH TANGENTS
 TOP OF WALL = TOP OF RAIL + SUPERELEVATION (Ed)
 THROUGH OUTSIDE CURVES AND SPIRALS
- 3. RETAINING WALL TO BE CIP WALL ON SPREAD FOOTING

RTW-W301 SECTION

NOT TO SCALE

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CIVIL WEST - VOLUME 6
RETAINING WALLS
RTW-W301 GEOMETRY

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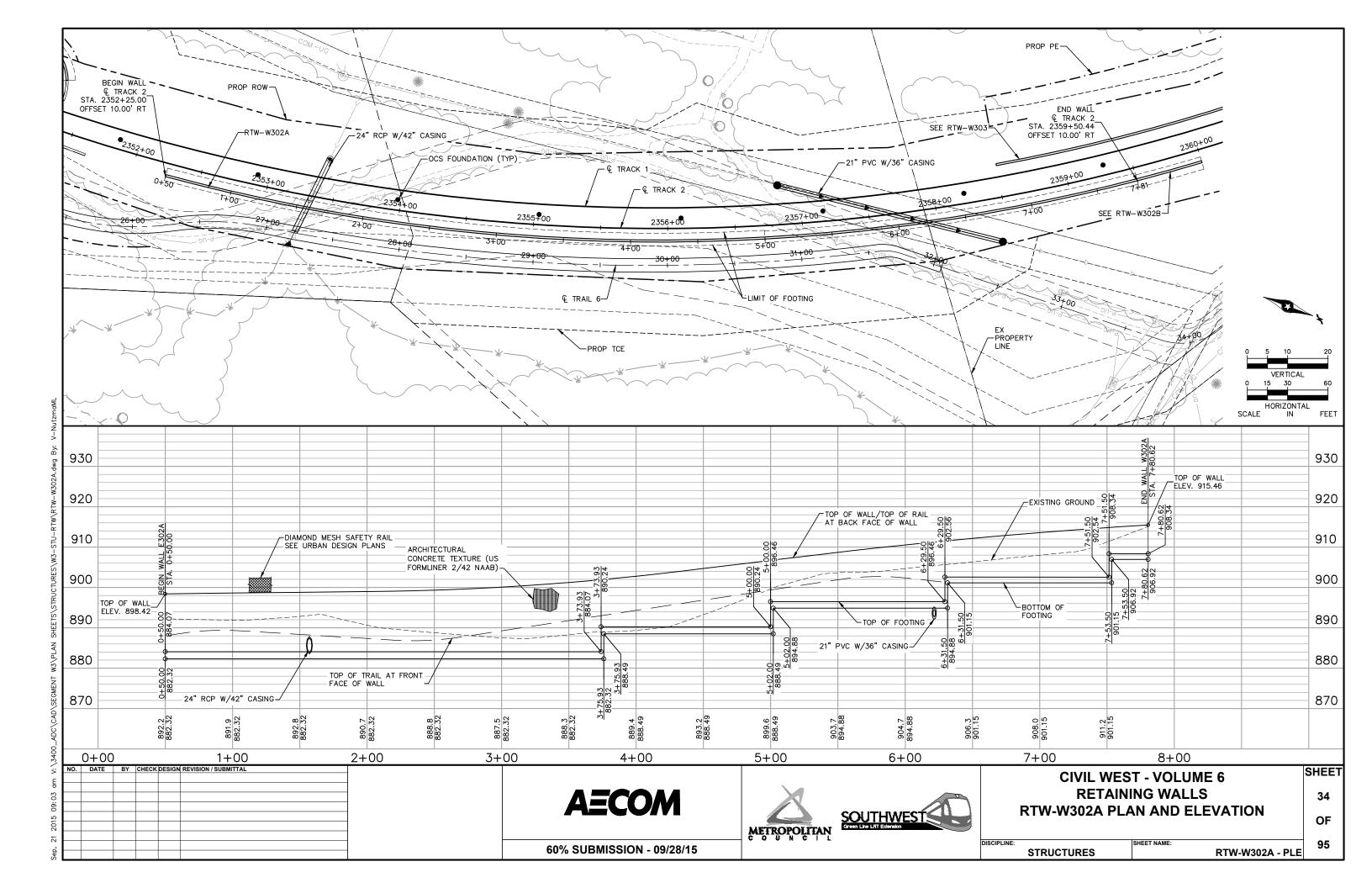
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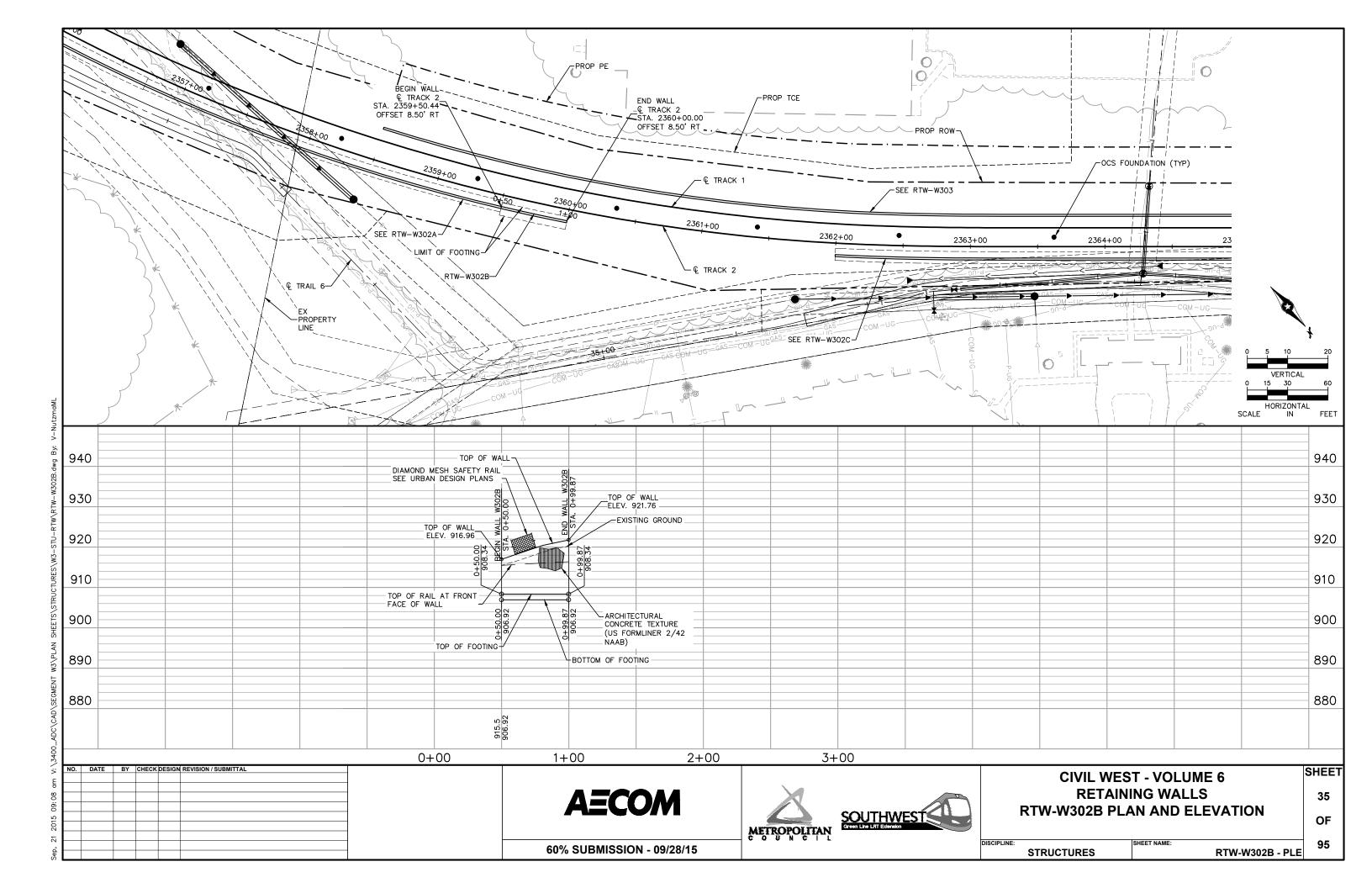
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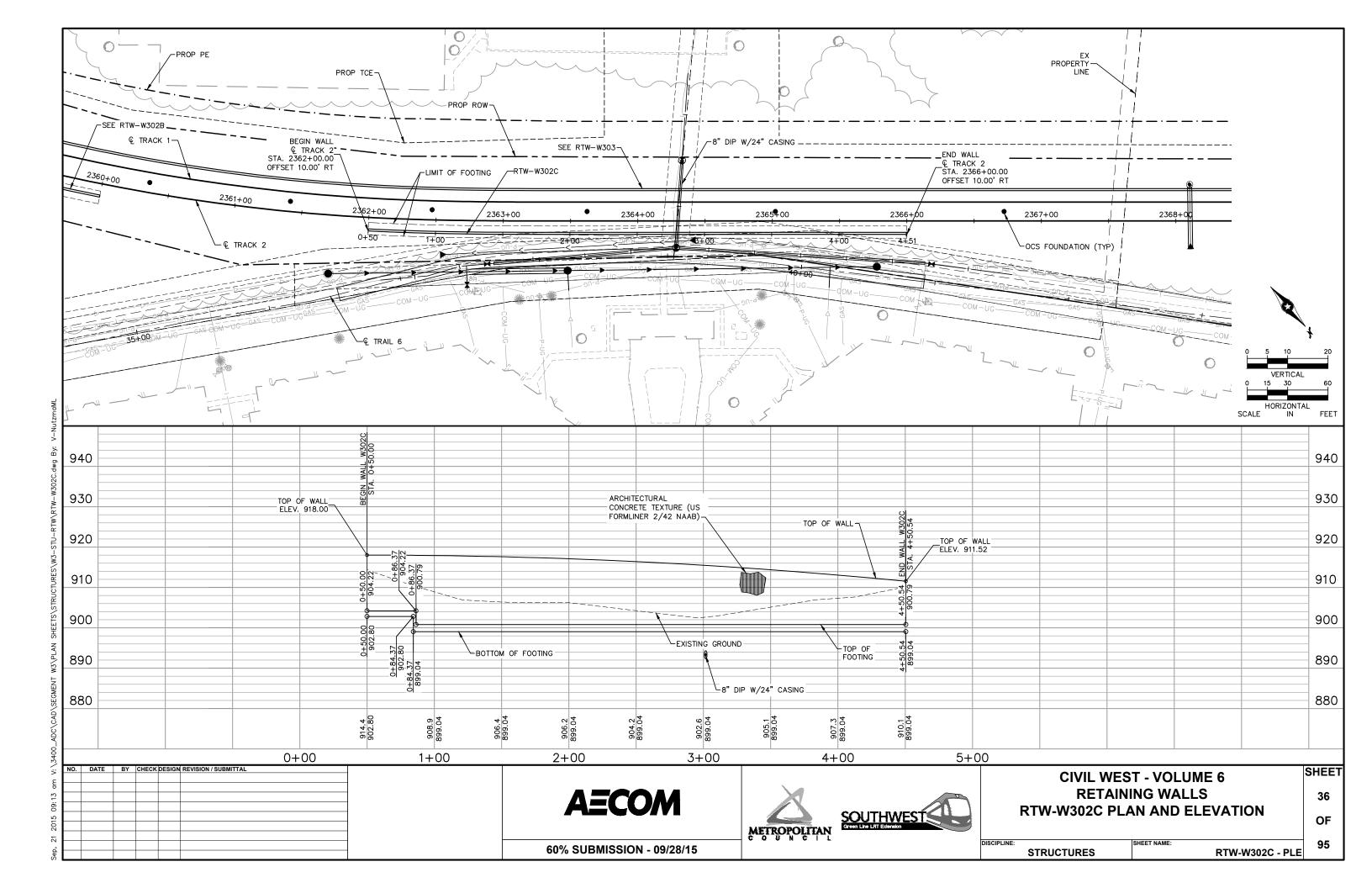
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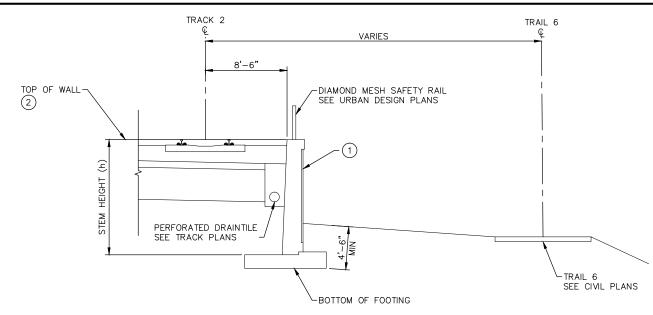
RTW-W301 - DTL

60% SUBMISSION - 09/28/15





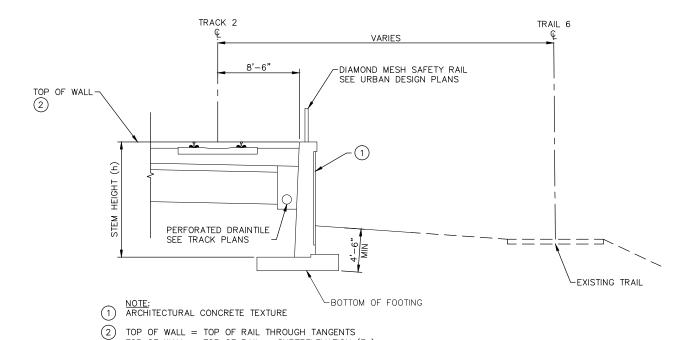




- NOTE: ARCHITECTURAL CONCRETE TEXTURE
- TOP OF WALL = TOP OF RAIL THROUGH TANGENTS
 TOP OF WALL = TOP OF RAIL + SUPERELEVATION (Ea)
 THROUGH OUTSIDE CURVES AND SPIRALS
- 3. RETAINING WALL TO BE CIP WALL ON SPREAD FOOTING

RTW-W302A SECTION

NOT TO SCALE



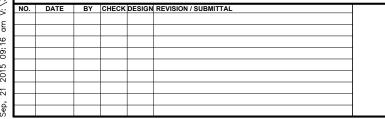
- TRACK 2 TRAIL 6 VARIES DIAMOND MESH SAFETY RAIL SEE URBAN DESIGN PLANS TOP OF WALL TRAIL, SEE CIVIL PLANS PERFORATED DRAINTILE SEE TRACK PLANS --DRAINTILE -BOTTOM OF FOOTING
- NOTE: ARCHITECTURAL CONCRETE TEXTURE
- RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W302B SECTION

NOT TO SCALE



TOP OF WALL = TOP OF RAIL + SUPERELEVATION (Eg)
THROUGH OUTSIDE CURVES AND SPIRALS



AECOM





CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W302 GEOMETRY

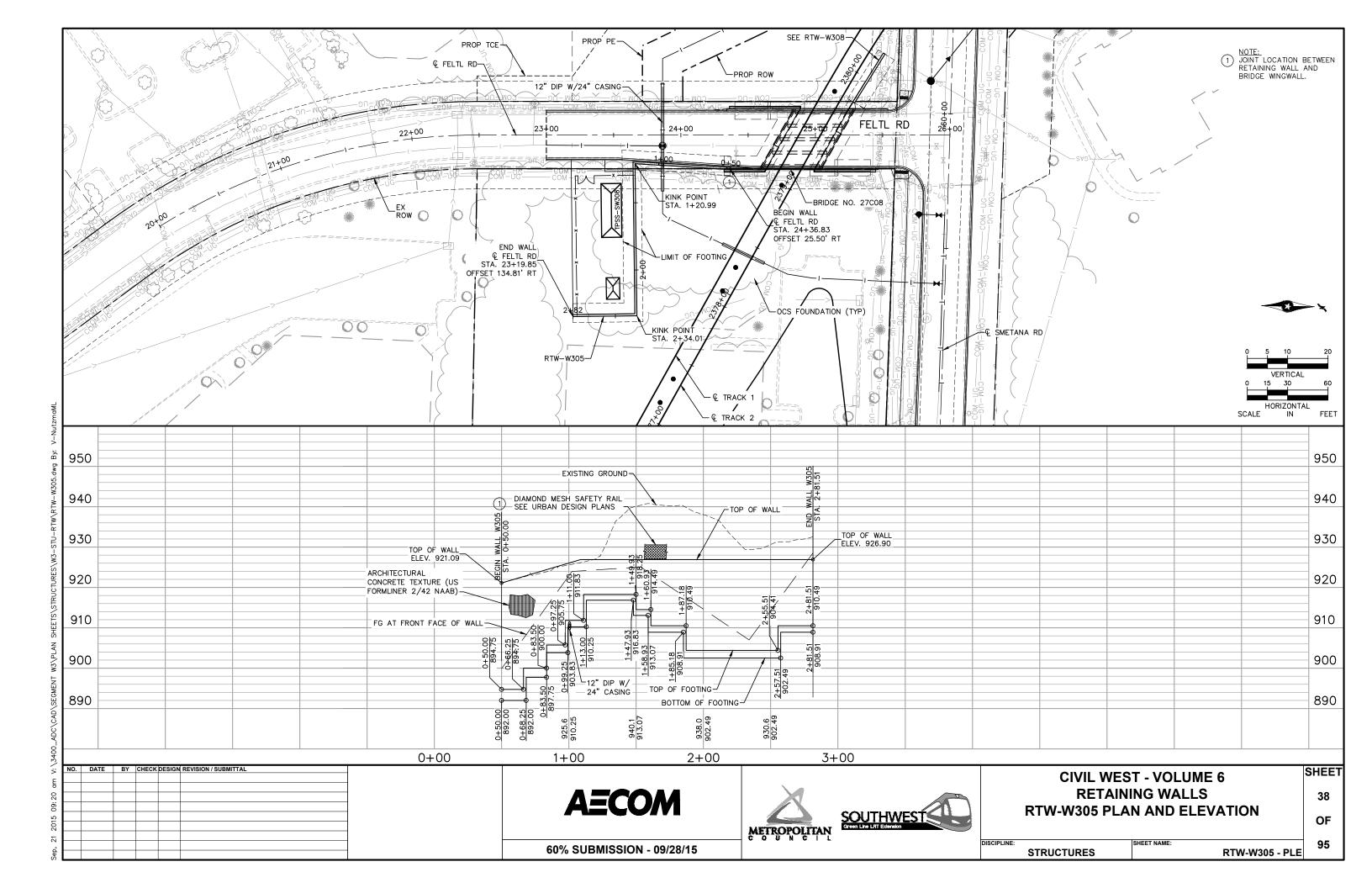
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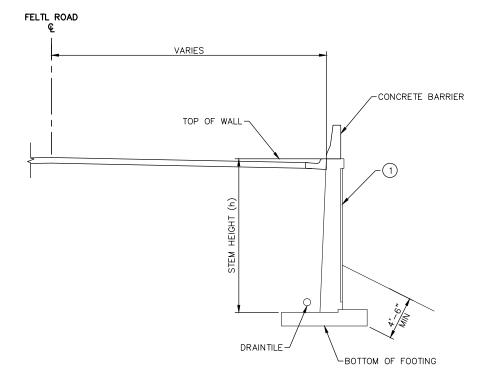
DISCIPLINE: **STRUCTURES**

RTW-W302 - DTL

60% SUBMISSION - 09/28/15

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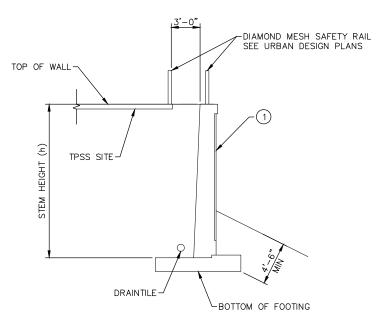




- NOTE:

 ARCHITECTURAL CONCRETE TEXTURE
- 2. RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W305 SECTION STA. 0+50 TO STA. 1+21 NOT TO SCALE



- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- 2. RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W305 SECTION STA. 1+21 TO STA. 2+82 NOT TO SCALE

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CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W305 GEOMETRY

39 OF

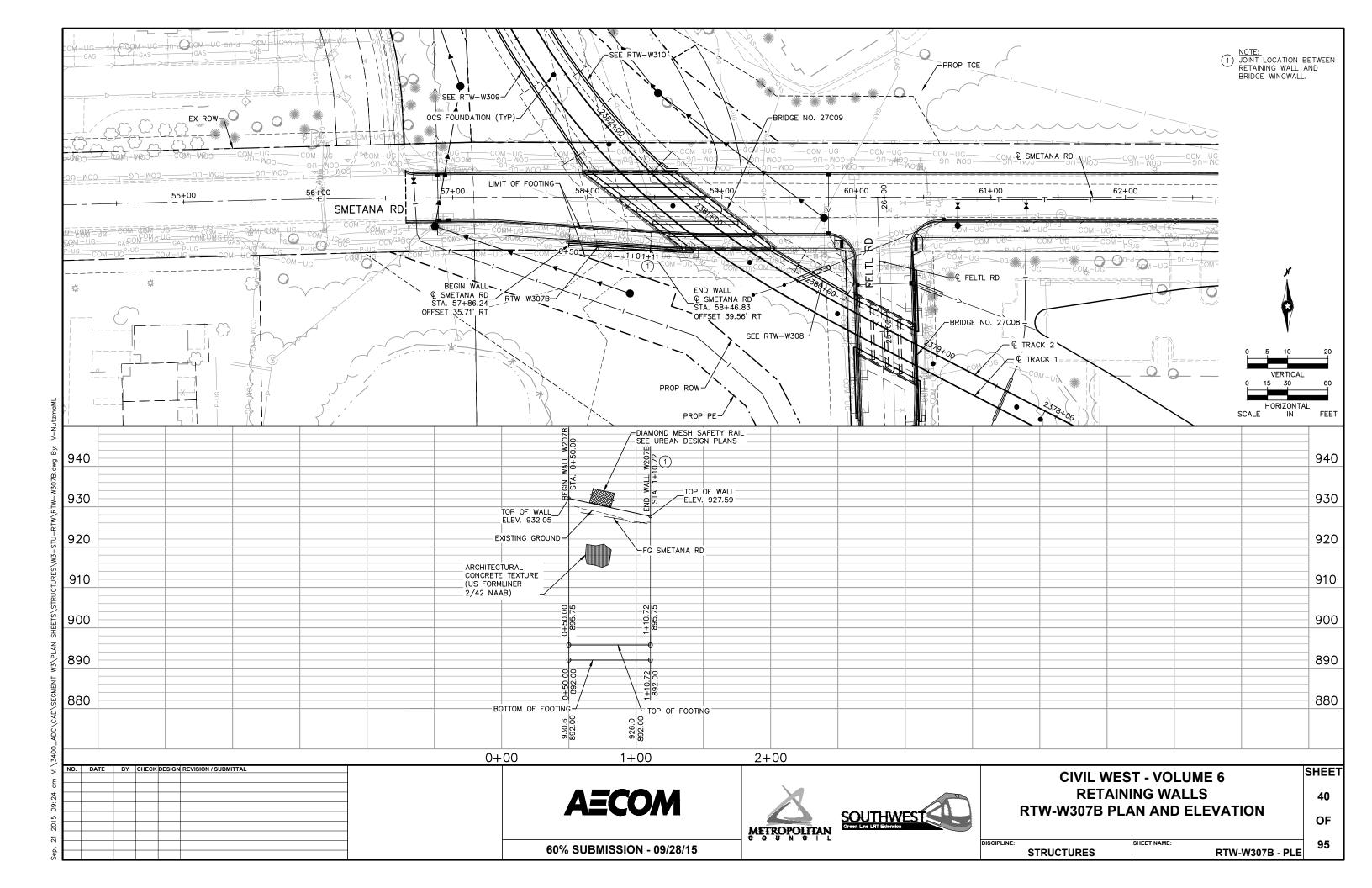
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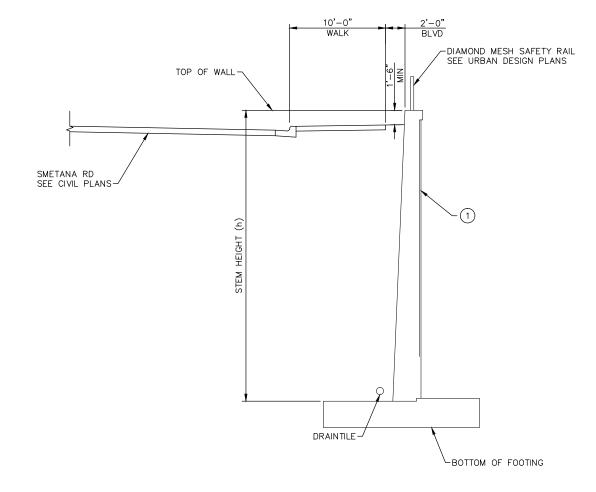
60% SUBMISSION - 09/28/15

STRUCTURES

RTW-W305 - DTL

95 305 - DTL





- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- 2. RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W307B SECTION NOT TO SCALE

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CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W307B GEOMETRY

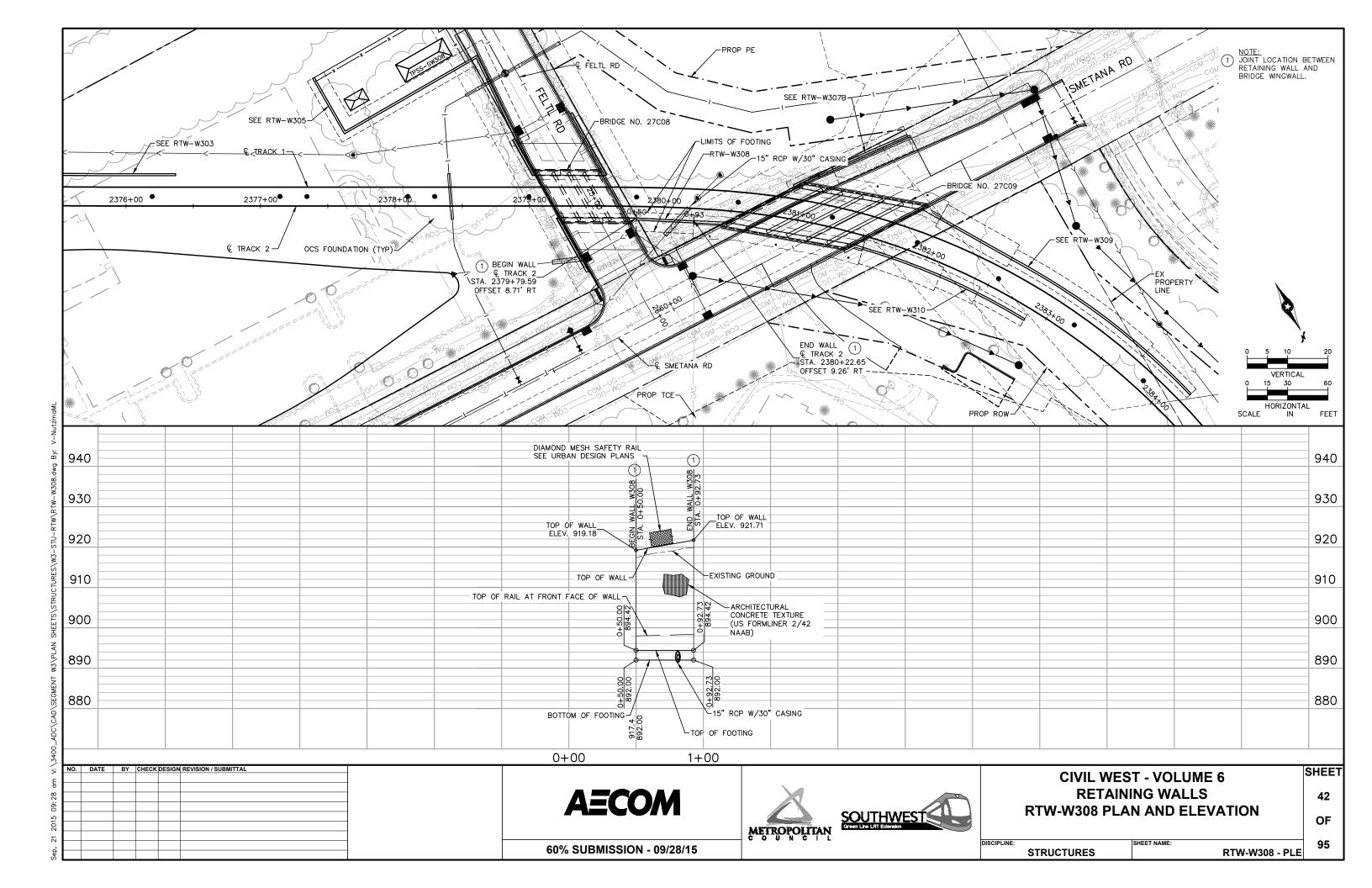
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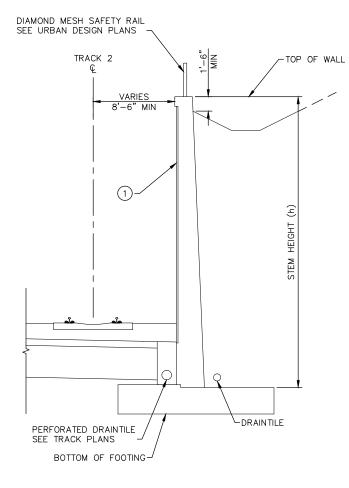
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RTW-W307B - DTL

60% SUBMISSION - 09/28/15

STRUCTURES





- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- 2. RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W308 SECTION

NOT TO SCALE

NO. DATE BY CHECK DESIGN REVISION / SUBMITTAL

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CIVIL WEST - VOLUME 6
RETAINING WALLS
RTW-W308 GEOMETRY

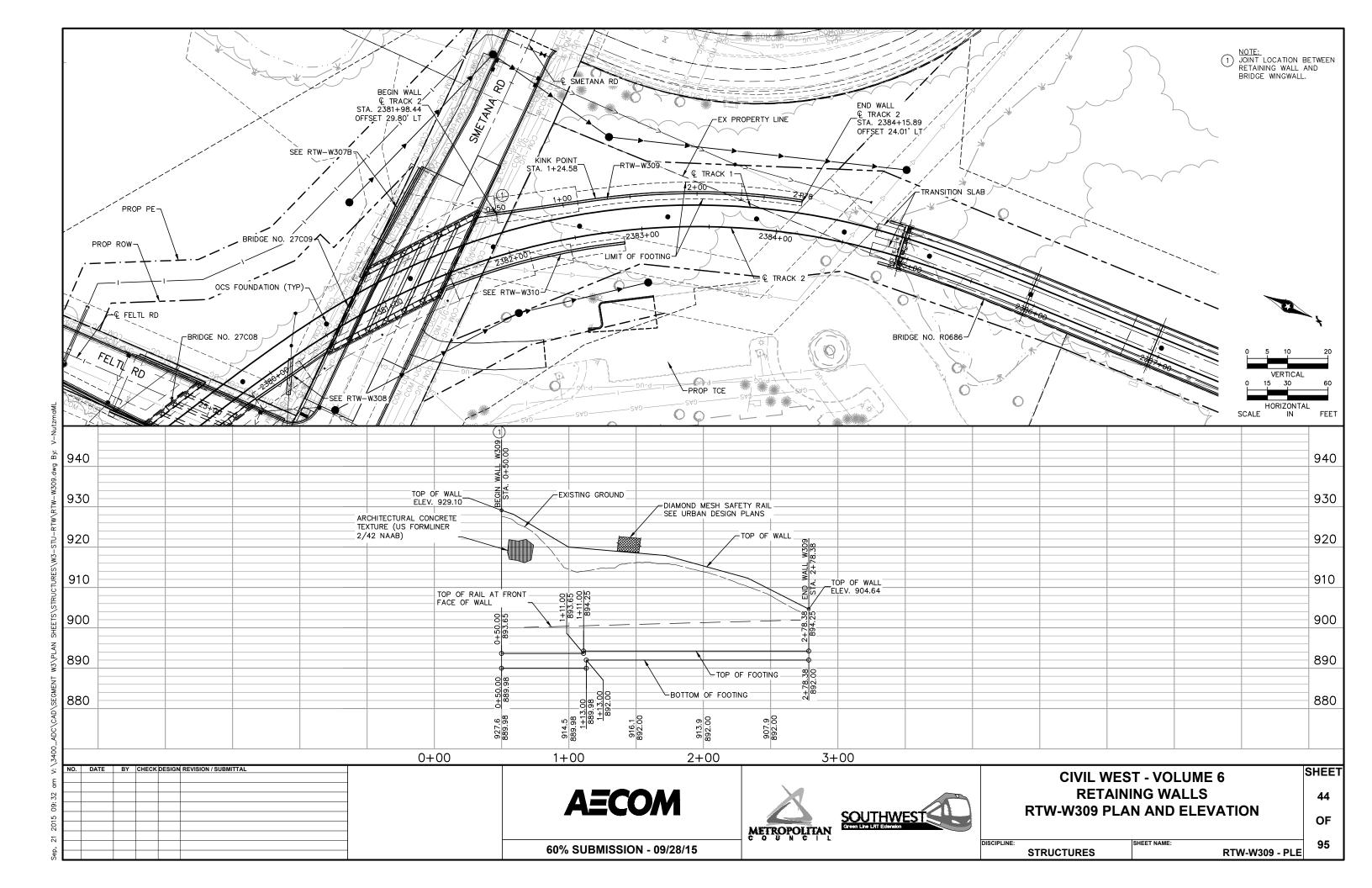
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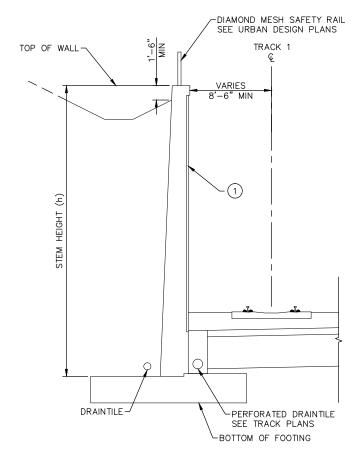
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DISCIPLINE: STRUCTURES

ET NAME:

RTW-W308 - DTL





- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- 2. RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W309 SECTION NOT TO SCALE

AECOM





CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W309 GEOMETRY

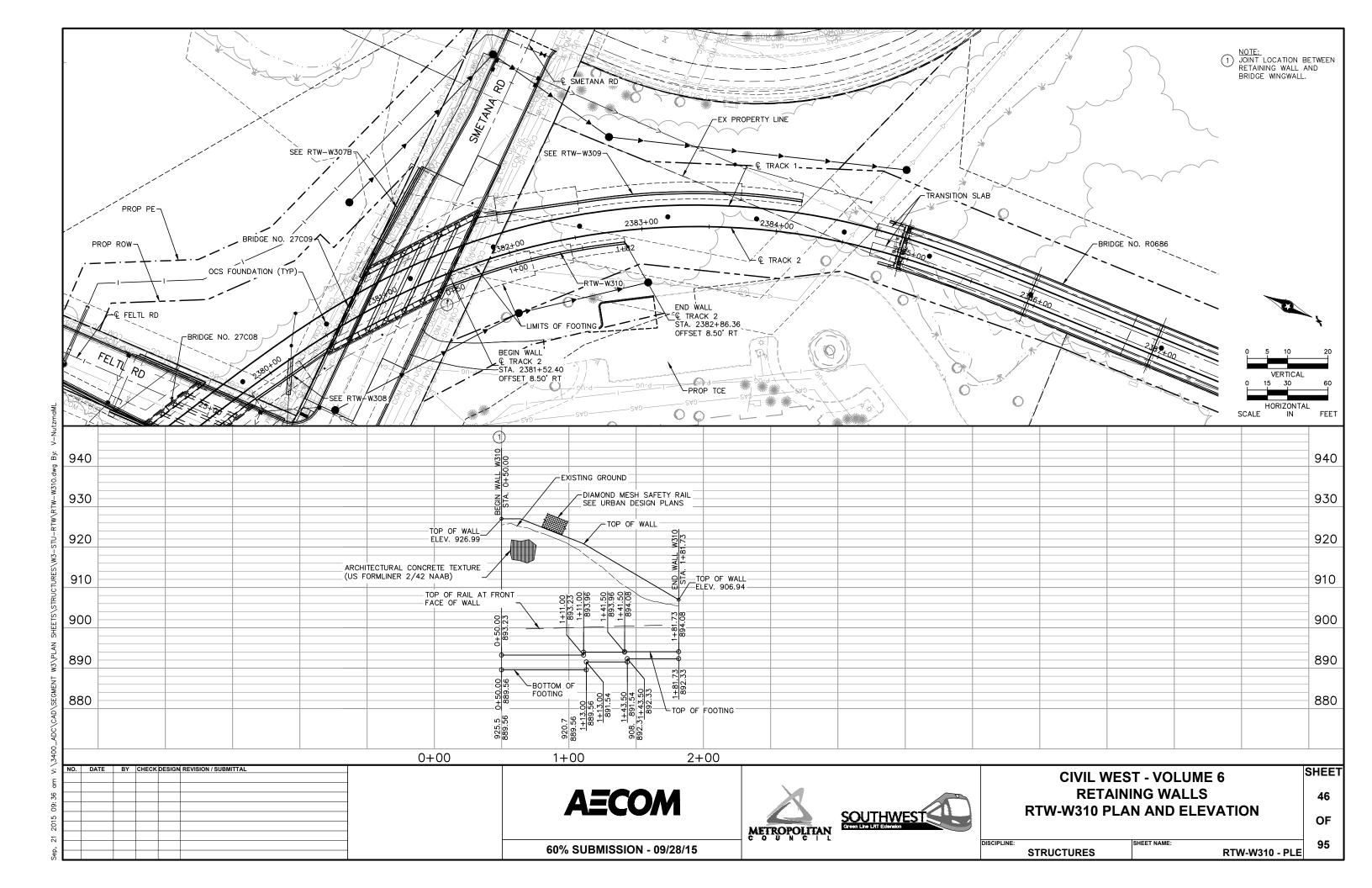
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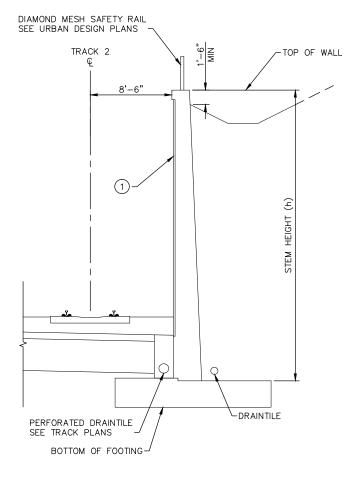
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DISCIPLINE:

60% SUBMISSION - 09/28/15

RTW-W309 - DTL STRUCTURES





- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- 2. RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W310 SECTION NOT TO SCALE

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CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W310 GEOMETRY

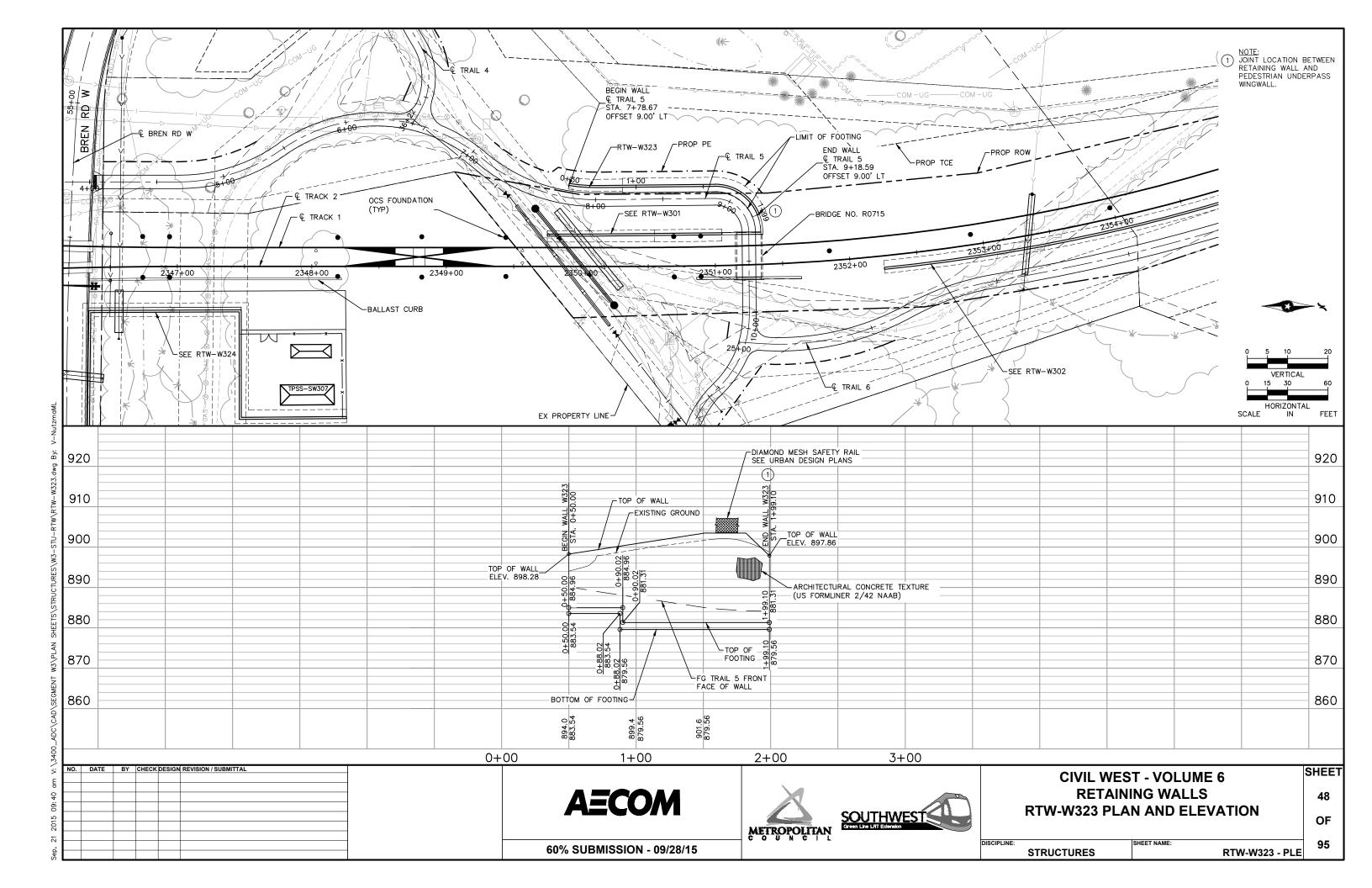
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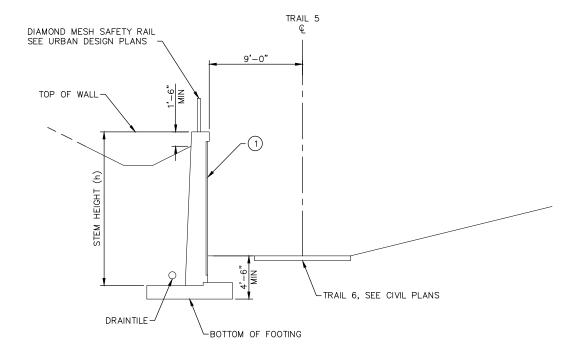
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DISCIPLINE: STRUCTURES

60% SUBMISSION - 09/28/15

RTW-W310 - DTL





NOTE:
ARCHITECTURAL CONCRETE TEXTURE

2. RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W323 SECTION

NOT TO SCALE

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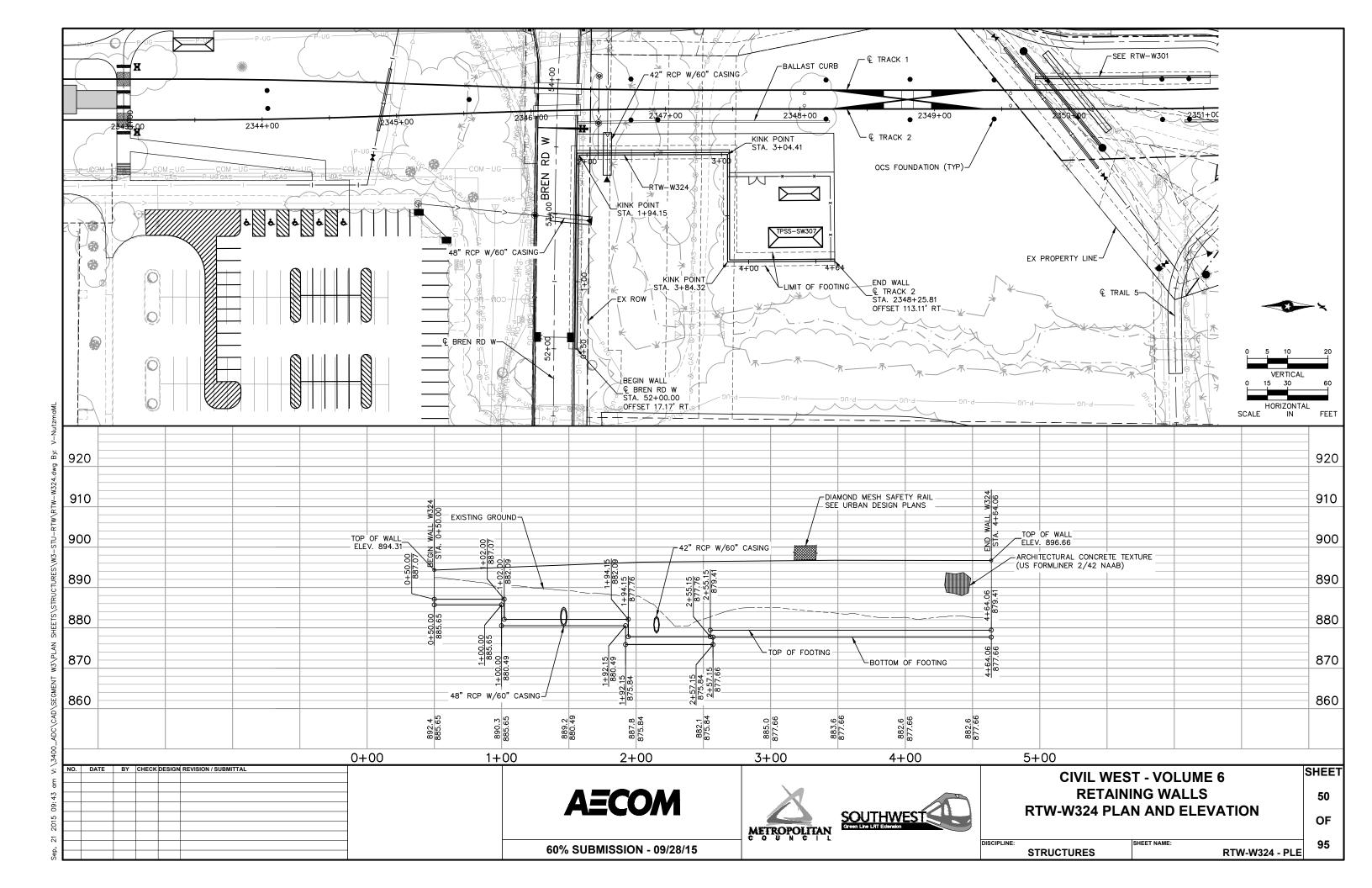
CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W323 GEOMETRY

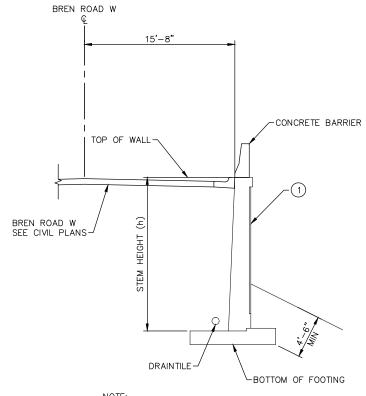
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DISCIPLINE: STRUCTURES

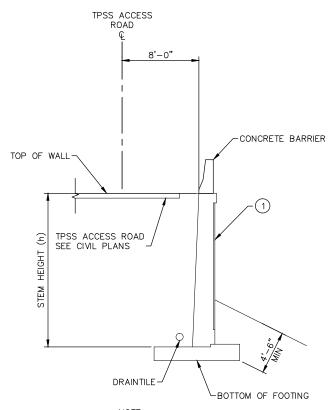
RTW-W323 - DTL





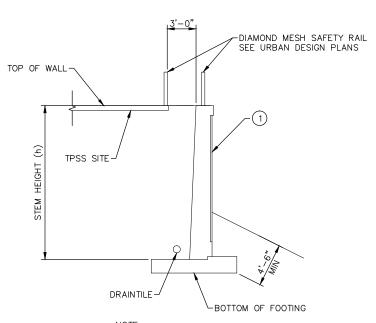
- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- 2. RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W324 SECTION STA. 0+50 TO STA. 1+94 NOT TO SCALE



- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- 2. RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W324 SECTION STA. 1+94 TO STA. 3+04 NOT TO SCALE



- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- 2. RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W324 SECTION STA. 3+04 TO STA.4+64 NOT TO SCALE

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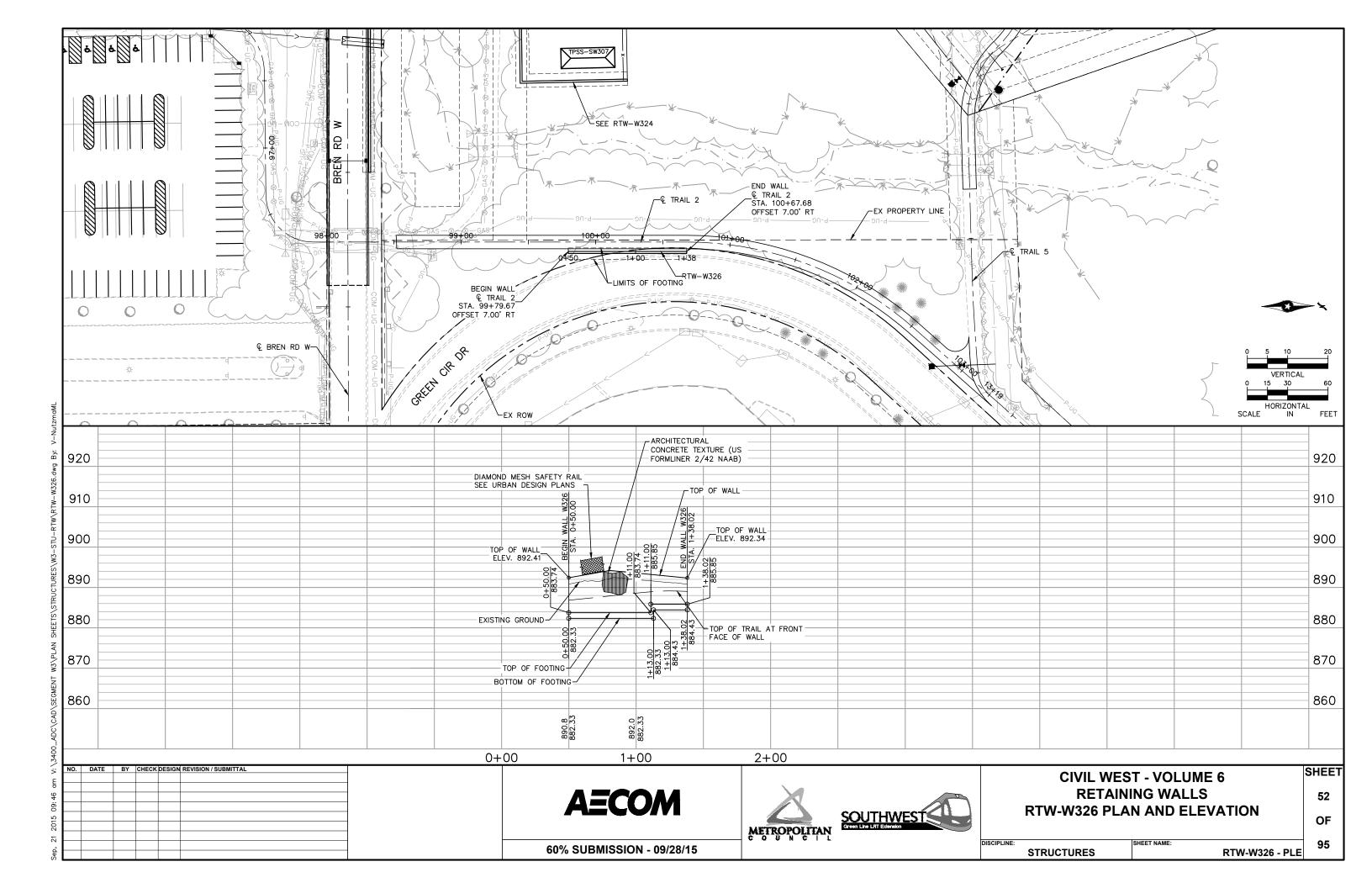
CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W324 GEOMETRY

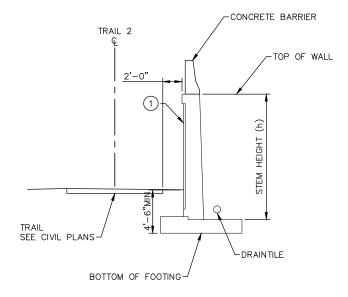
51 OF

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DISCIPLINE: **STRUCTURES**

RTW-W324 - DTL





- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- 2. RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W326 SECTION

NOT TO SCALE

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CIVIL WEST - VOLUME 6
RETAINING WALLS
RTW-W326 GEOMETRY

53 OF

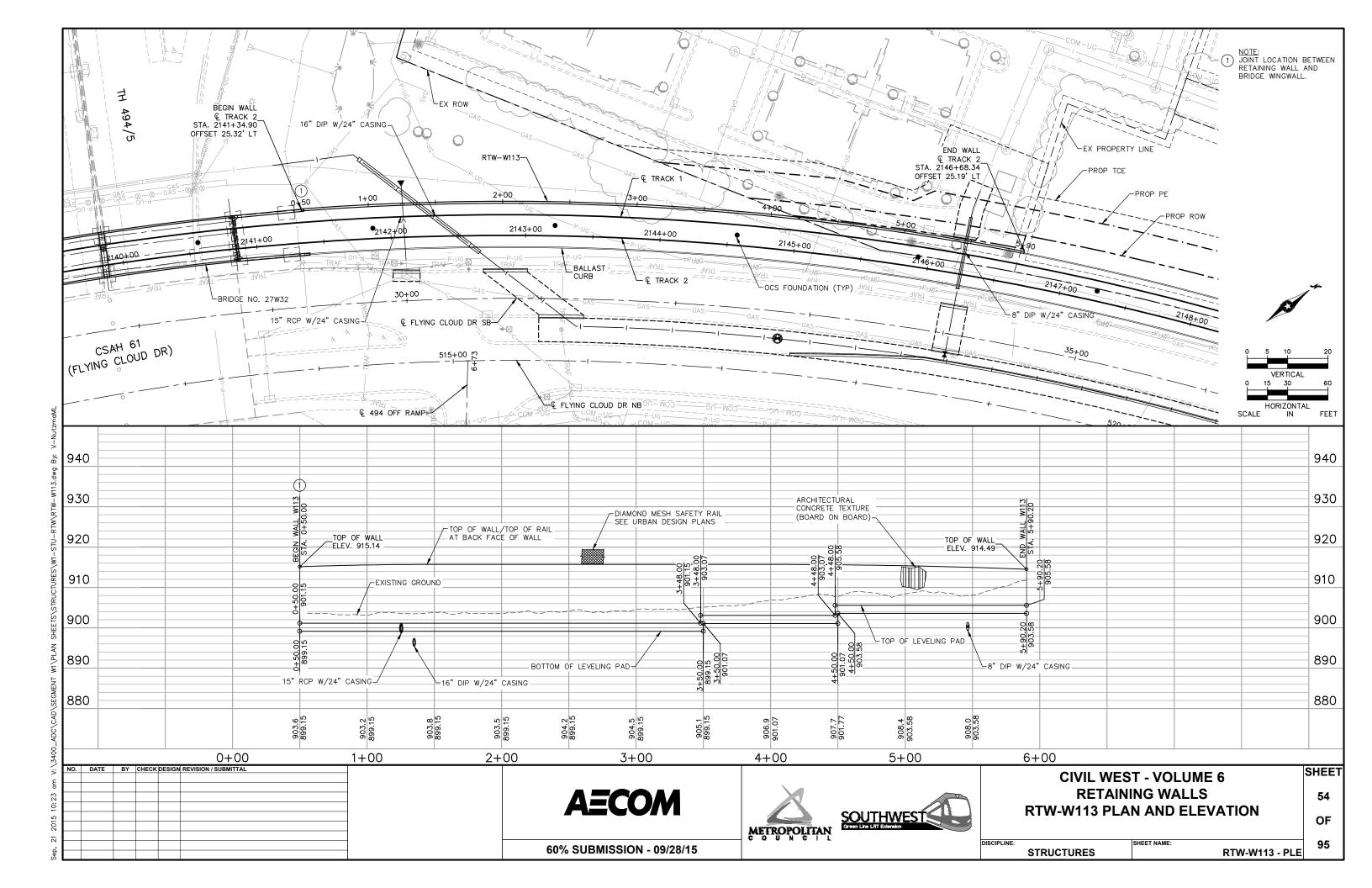
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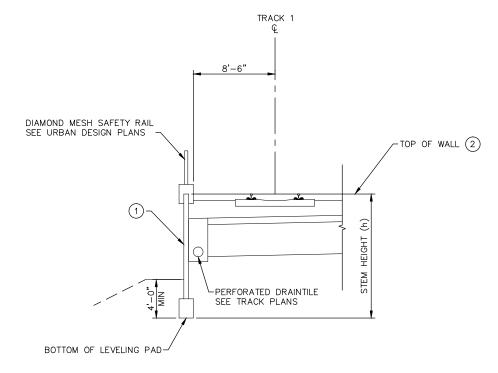
60% SUBMISSION - 09/28/15

STRUCTURES

RTW-W326 - DTL

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- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- (2) TOP OF WALL = TOP OF RAIL THROUGH TANGENTS
 TOP OF WALL = TOP OF RAIL + SUPERELEVATION (Ea)
 THROUGH OUTSIDE CURVES AND SPIRALS
- 3. RETAINING WALL TO BE MSE WALL

RTW-W113 SECTION

NOT TO SCALE

AECOM





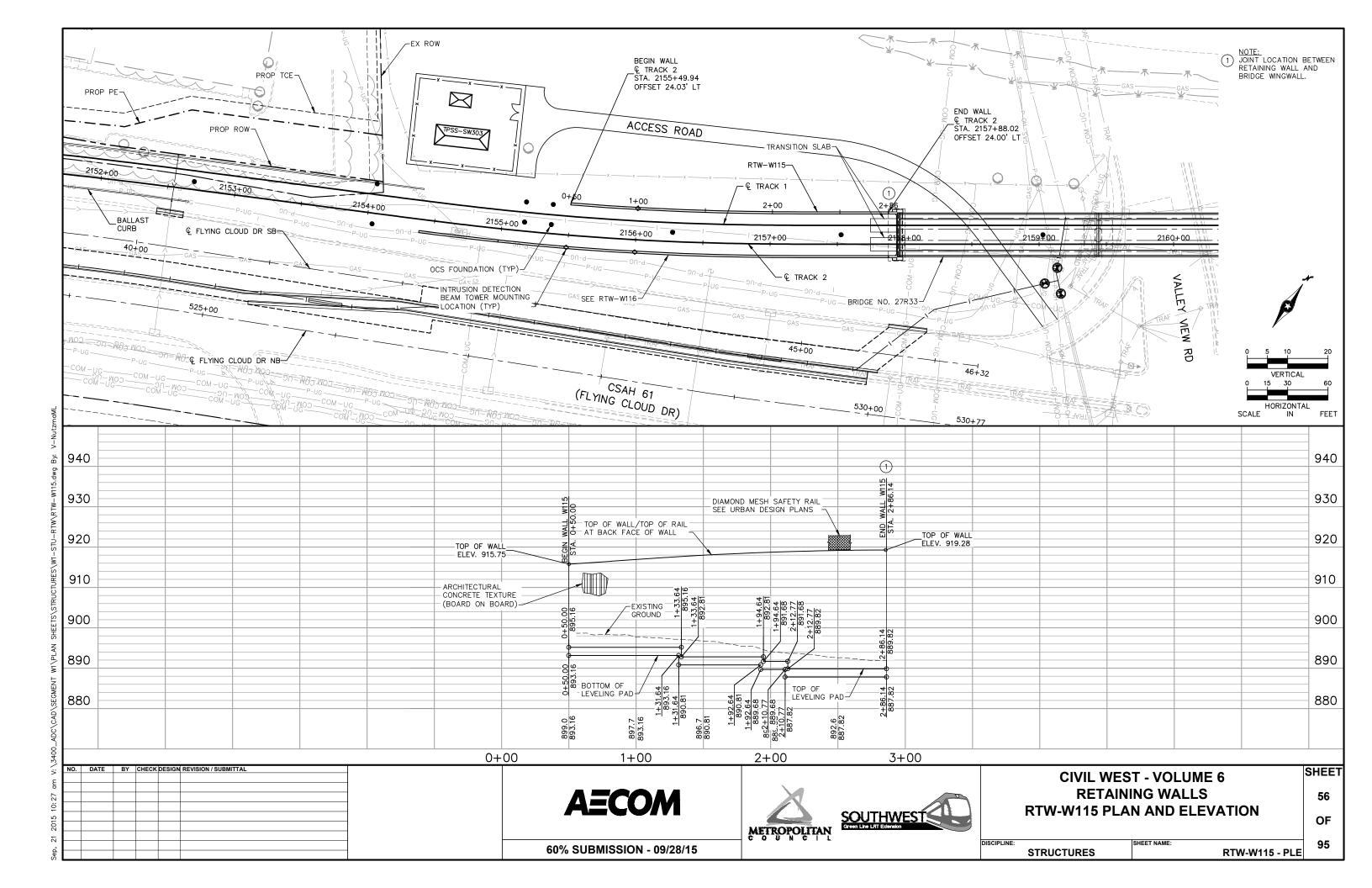
CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W113 GEOMETRY

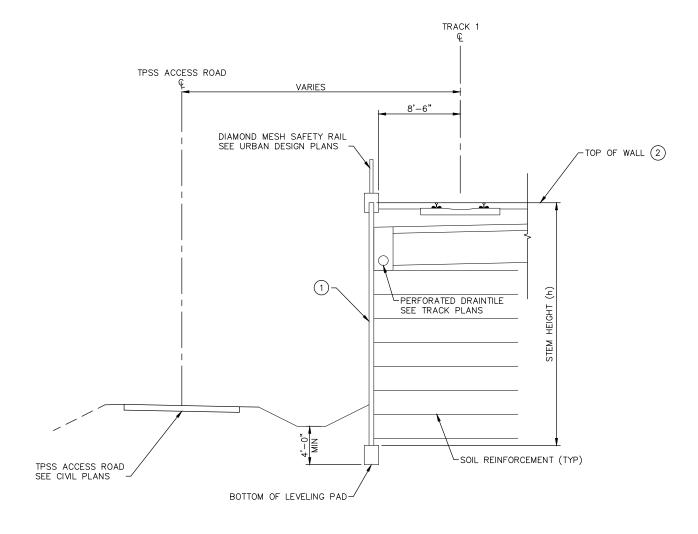
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DISCIPLINE: **STRUCTURES**

RTW-W113 - DTL





- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- (2) TOP OF WALL = TOP OF RAIL THROUGH TANGENTS TOP OF WALL = TOP OF RAIL + SUPERELEVATION (Eq) THROUGH OUTSIDE CURVES AND SPIRALS
- 3. RETAINING WALL TO BE MSE WALL

RTW-W115 SECTION

NOT TO SCALE

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CIVIL WEST - VOLUME 6
RETAINING WALLS
RTW-W115 GEOMETRY

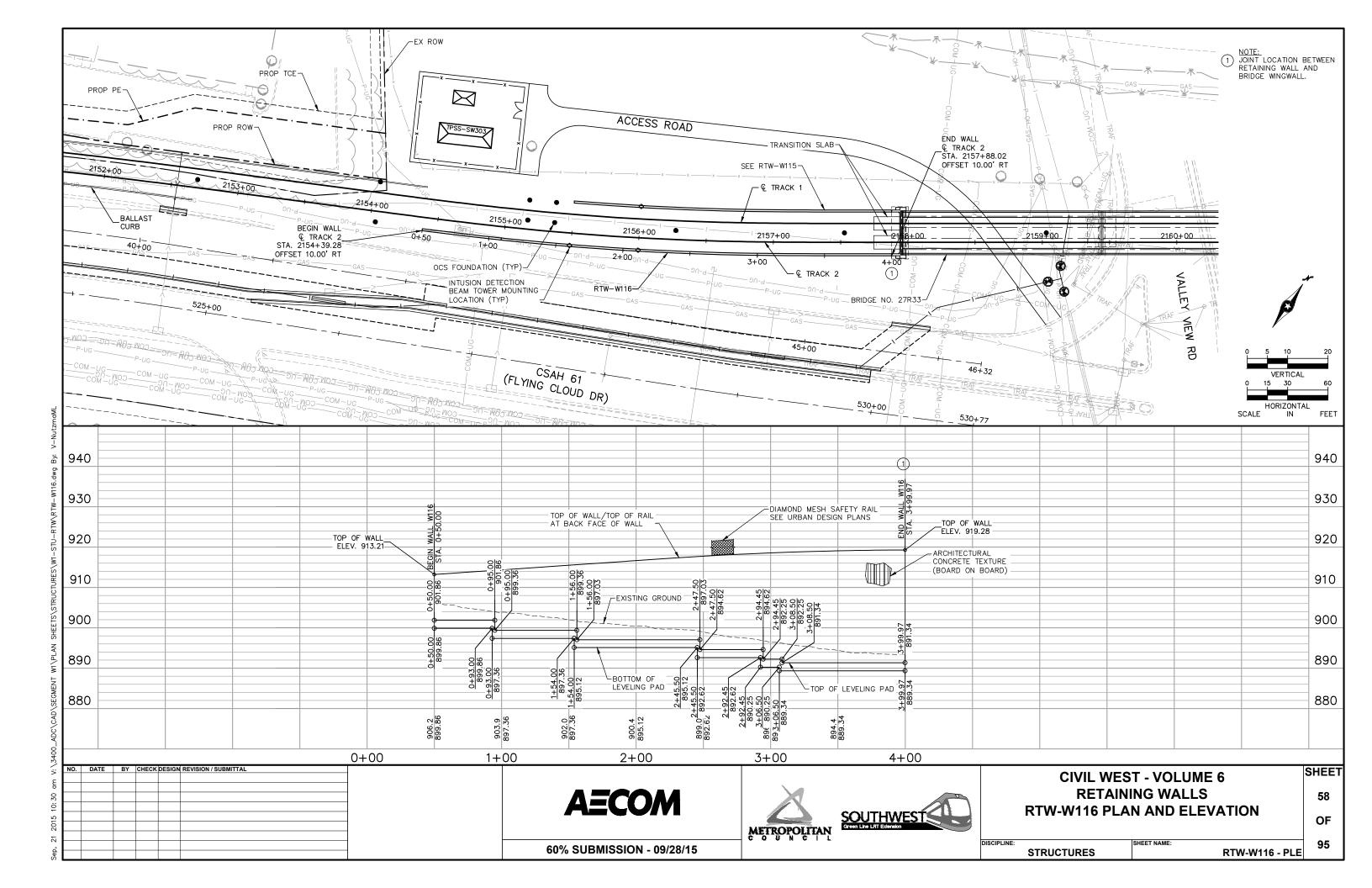
57 OF

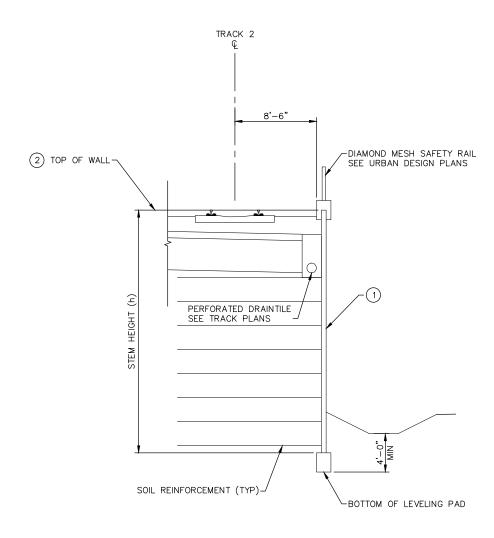
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DISCIPLINE: STRUCTURES

EET NAME:

RTW-W115 - DTL





- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- TOP OF WALL = TOP OF RAIL THROUGH TANGENTS
 TOP OF WALL = TOP OF RAIL + SUPERELEVATION (Ea)
 THROUGH OUTSIDE CURVES AND SPIRALS
- 3. RETAINING WALL TO BE MSE WALL

RTW-W116 SECTION

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CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W116 GEOMETRY

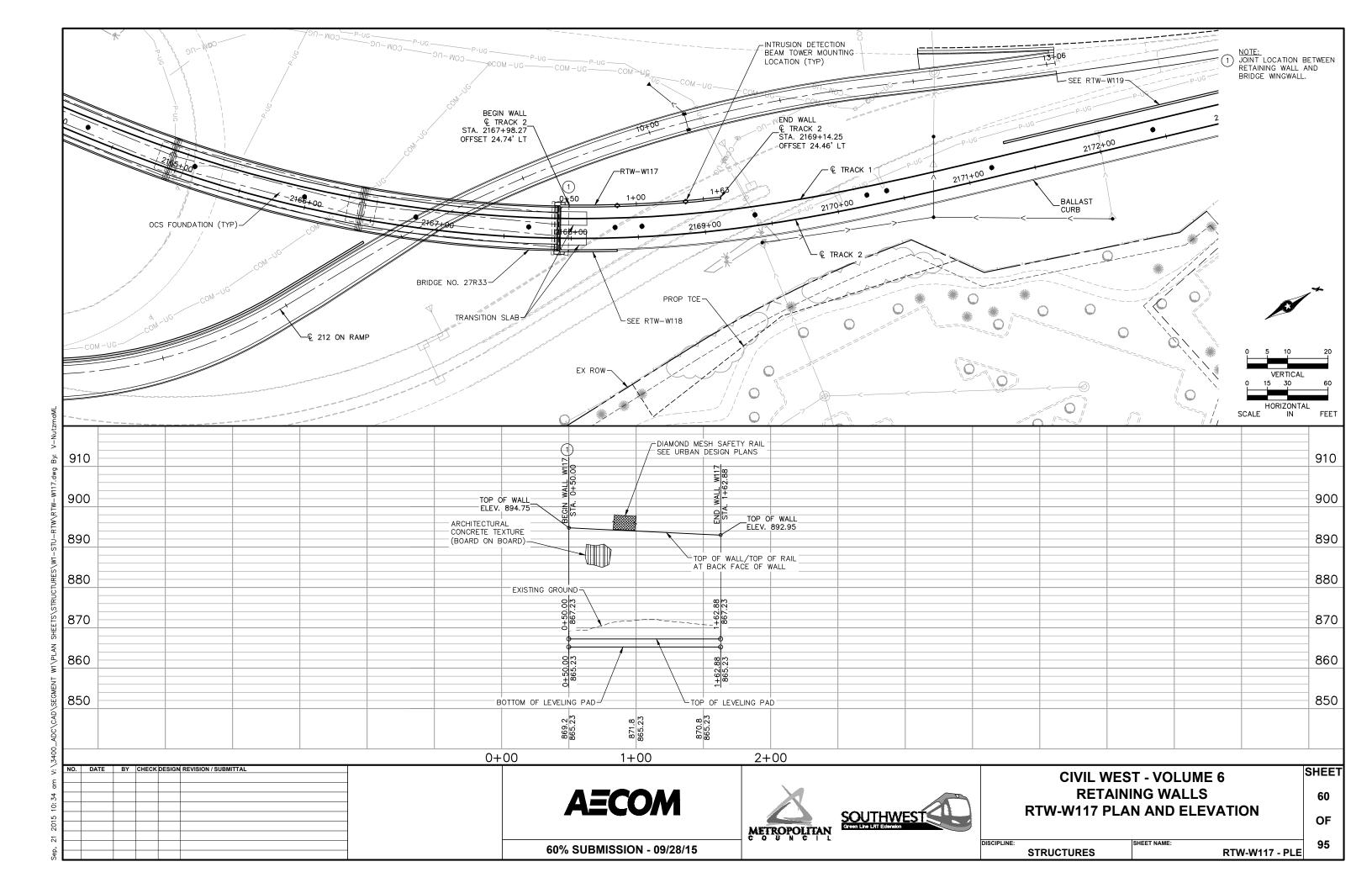
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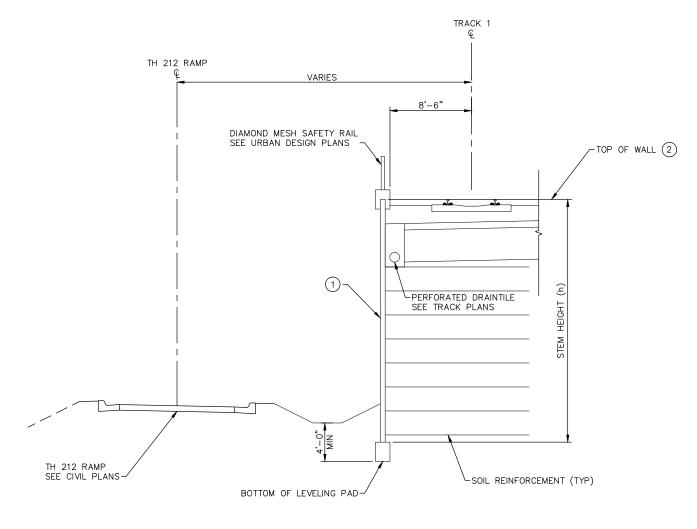
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DISCIPLINE: **STRUCTURES**

RTW-W116 - DTL





- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- (2) TOP OF WALL = TOP OF RAIL THROUGH TANGENTS
 TOP OF WALL = TOP OF RAIL + SUPERELEVATION (Ea)
 THROUGH OUTSIDE CURVES AND SPIRALS
- 3. RETAINING WALL TO BE MSE WALL

RTW-W117 SECTION

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CIVIL WEST - VOLUME 6
RETAINING WALLS
RTW-W117 GEOMETRY

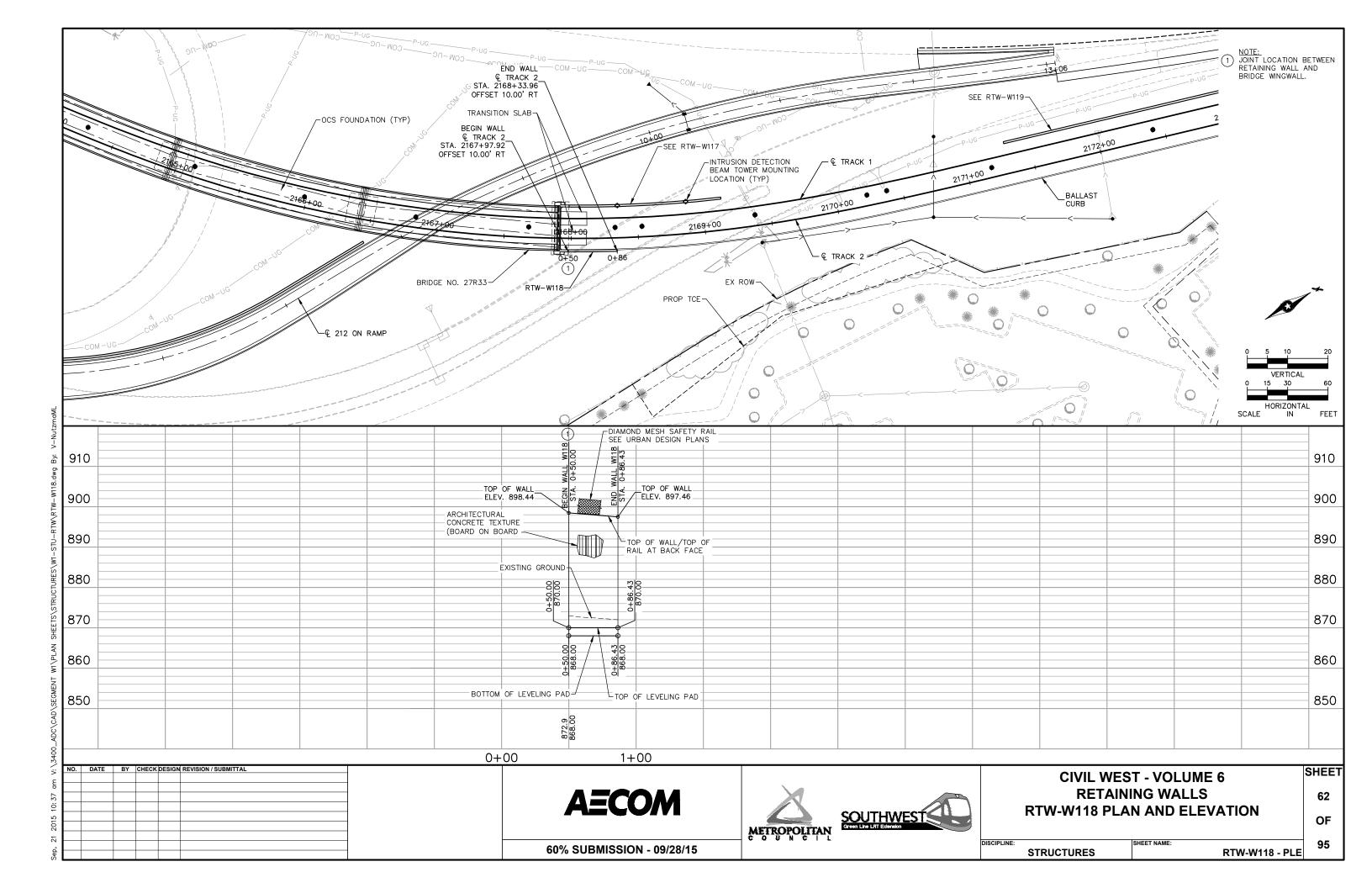
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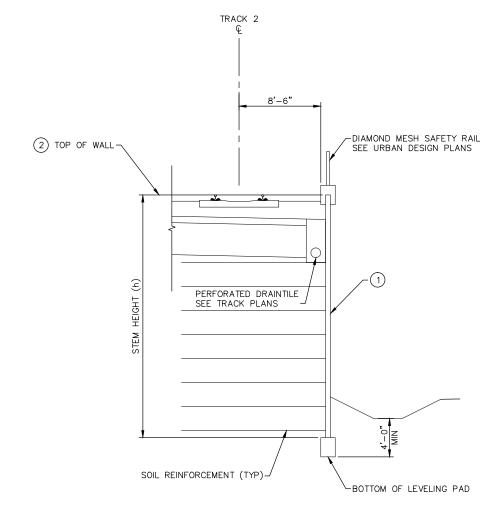
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DISCIPLINE: STRUCTURES

T NAME:

RTW-W117 - DTL





- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- (2) TOP OF WALL = TOP OF RAIL THROUGH TANGENTS
 TOP OF WALL = TOP OF RAIL + SUPERELEVATION (Ea)
 THROUGH OUTSIDE CURVES AND SPIRALS
- 3. RETAINING WALL TO BE MSE WALL

RTW-W118 SECTION

NOT TO SCALE

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CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W118 GEOMETRY

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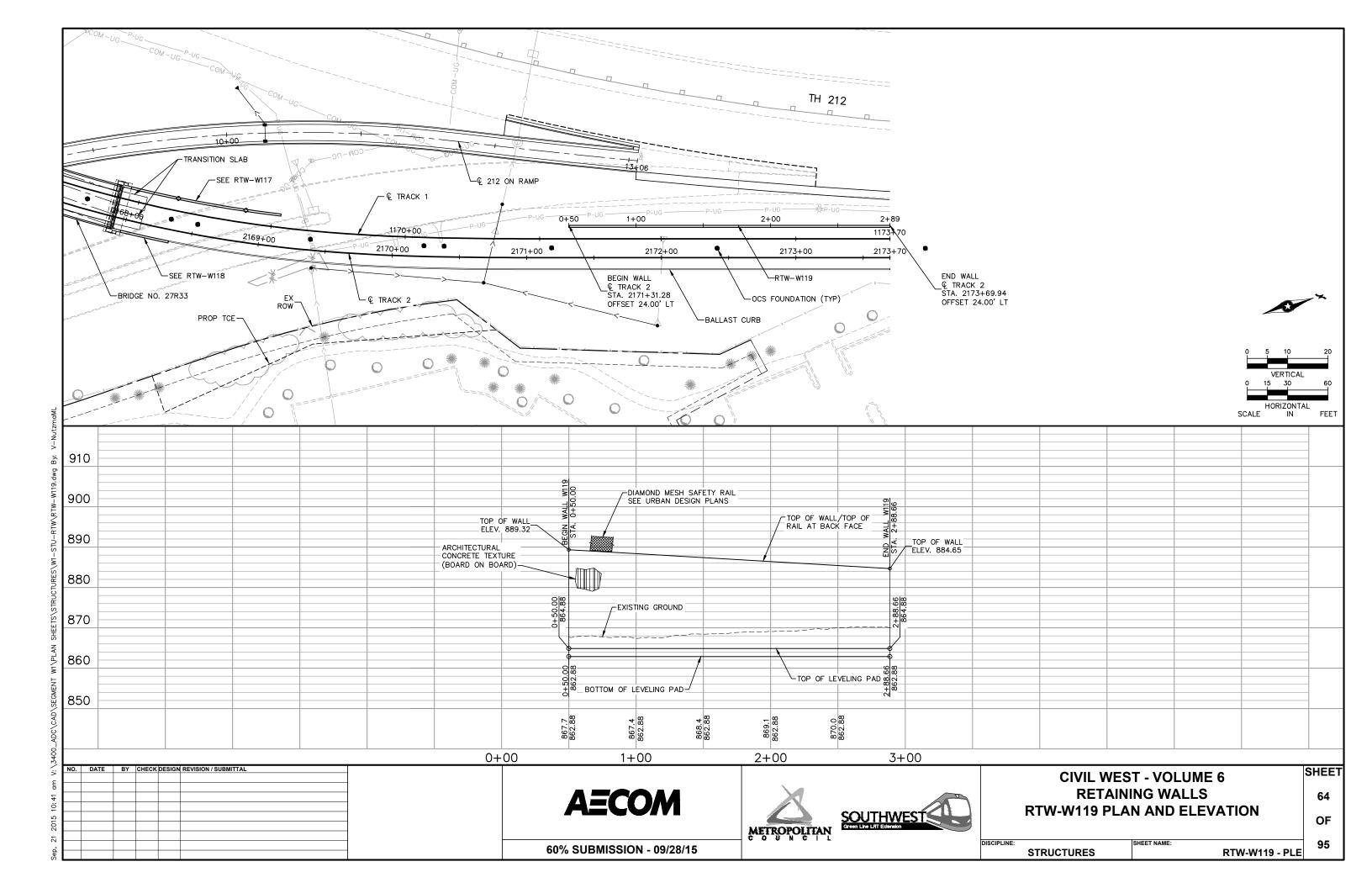
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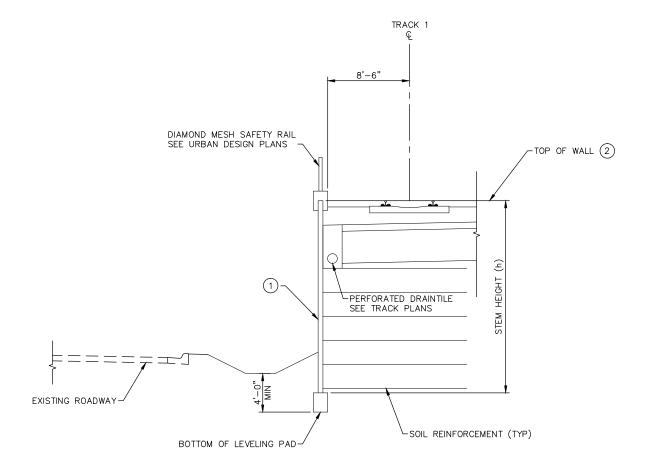
DISCIPLINE:

RTW-W118 - DTL

60% SUBMISSION - 09/28/15

STRUCTURES





- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- (2) TOP OF WALL = TOP OF RAIL THROUGH TANGENTS TOP OF WALL = TOP OF RAIL + SUPERELEVATION (Ed) THROUGH OUTSIDE CURVES AND SPIRALS
- 3. RETAINING WALL TO BE MSE WALL

RTW-W119 SECTION

NOT TO SCALE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

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CIVIL WEST - VOLUME 6
RETAINING WALLS
RTW-W119 GEOMETRY

65 OF

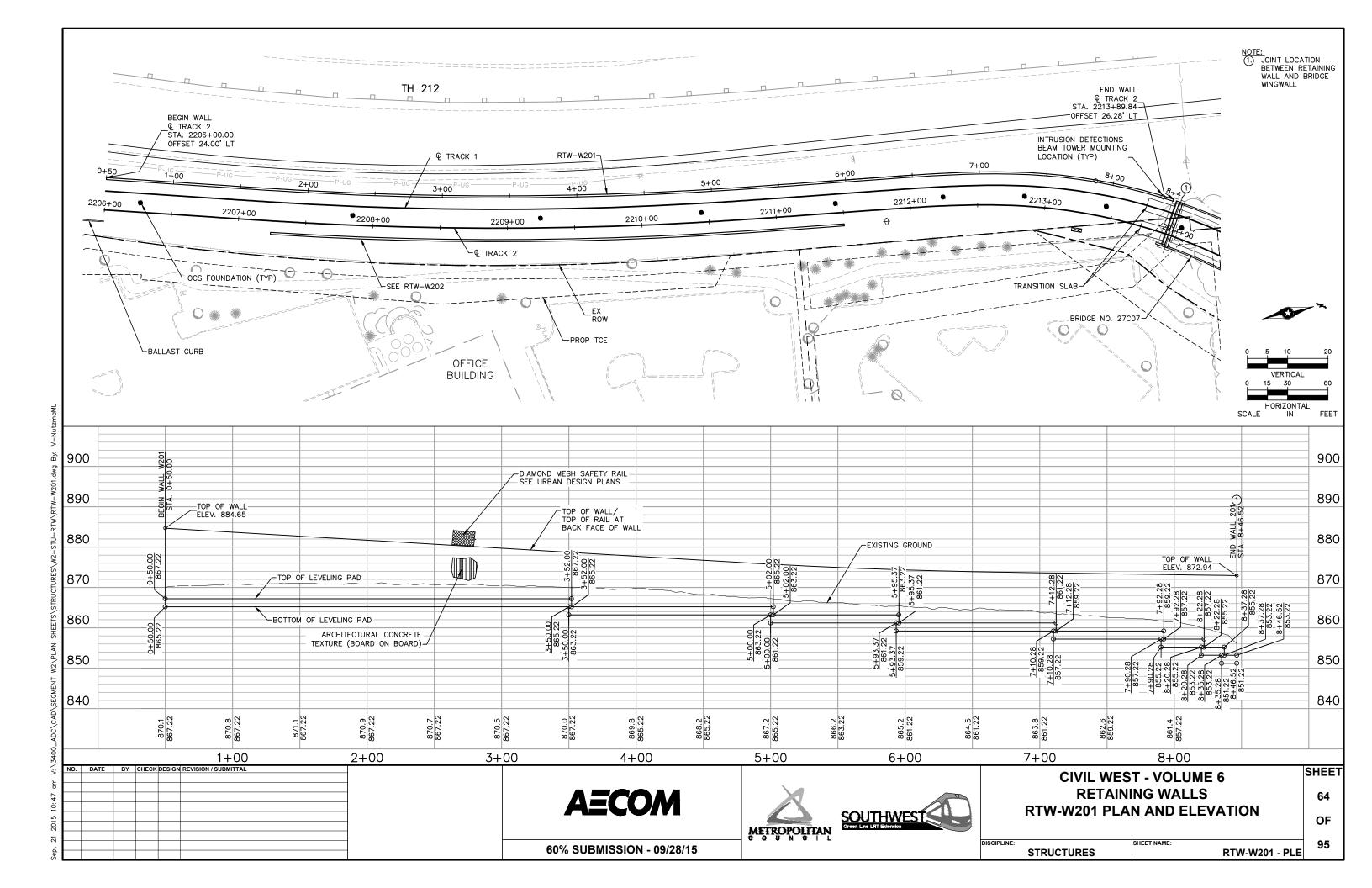
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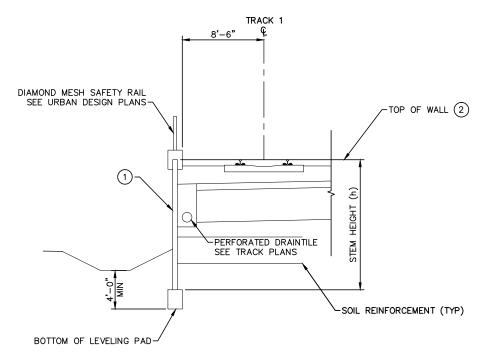
DISCIPLINE: STRUCTURES

RTW-W119 - DTL

60% SUBMISSION - 09/28/15

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- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- TOP OF WALL = TOP OF RAIL THROUGH TANGENTS
 TOP OF WALL = TOP OF RAIL + SUPERELEVATION (Ea)
 THROUGH OUTSIDE CURVES AND SPIRALS
- 3 RETAINING WALL TO BE MSE WALL

RTW-W201 SECTION NOT TO SCALE

NO. DATE BY CHECK DESIGN REVISION / SUBMITTAL

AECOM





CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W201 GEOMETRY

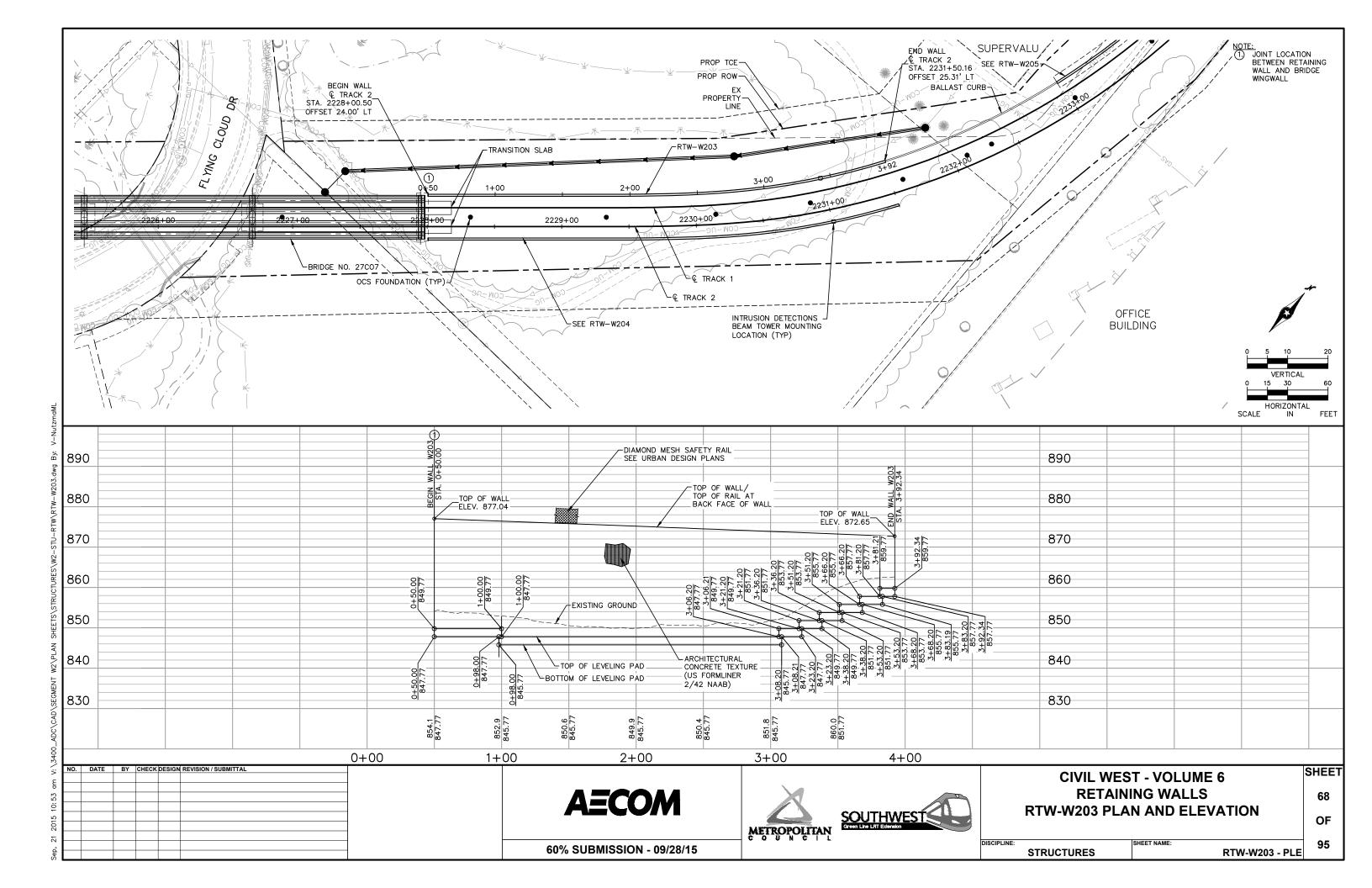
65 OF

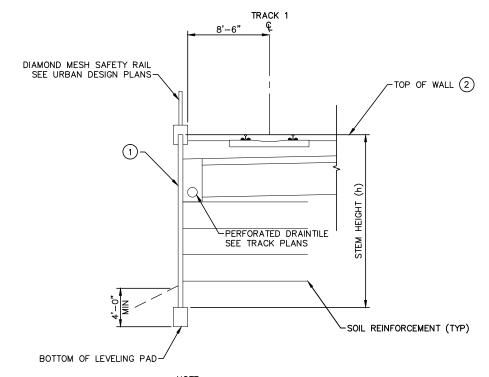
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60% SUBMISSION - 09/28/15

DISCIPLINE: STRUCTURES

RTW-W201 - DTL





- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- (2) TOP OF WALL = TOP OF RAIL THROUGH TANGENTS
 TOP OF WALL = TOP OF RAIL + SUPERELEVATION (Eq)
 THROUGH OUTSIDE CURVES AND SPIRALS
- 3 RETAINING WALL TO BE MSE WALL

RTW-W203 SECTION NOT TO SCALE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL
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CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W203 GEOMETRY

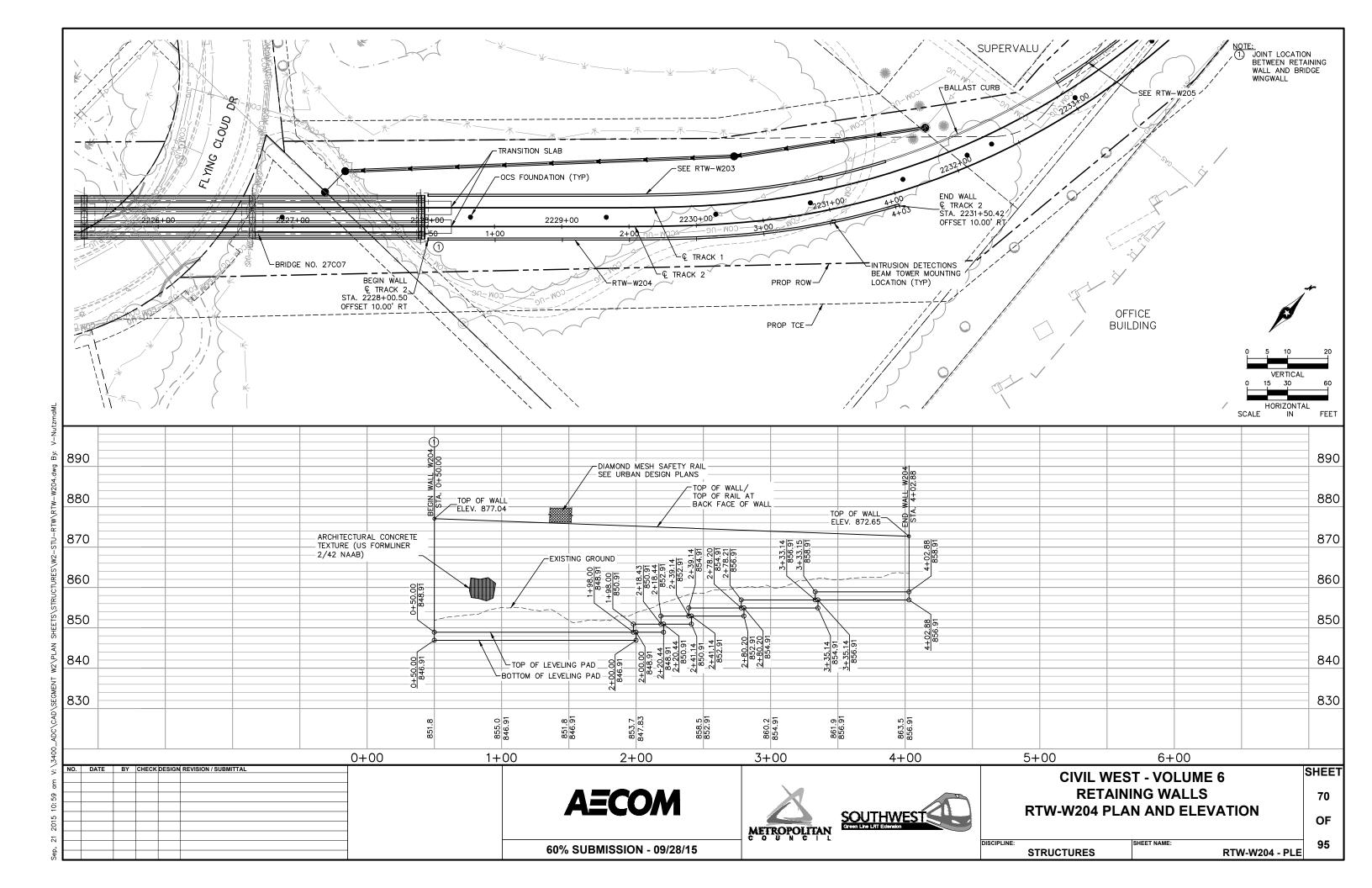
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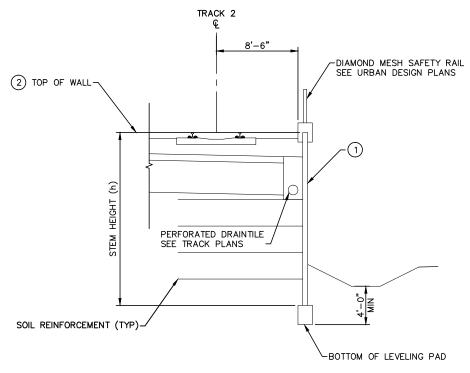
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60% SUBMISSION - 09/28/15

DISCIPLINE: STRUCTURES

RTW-W203 - DTL





- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- (2) TOP OF WALL = TOP OF RAIL THROUGH TANGENTS
 TOP OF WALL = TOP OF RAIL + SUPERELEVATION (Ea)
 THROUGH OUTSIDE CURVES AND SPIRALS
- 3 RETAINING WALL TO BE MSE WALL

RTW-W204 SECTION NOT TO SCALE

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60% SUBMISSION - 09/28/15





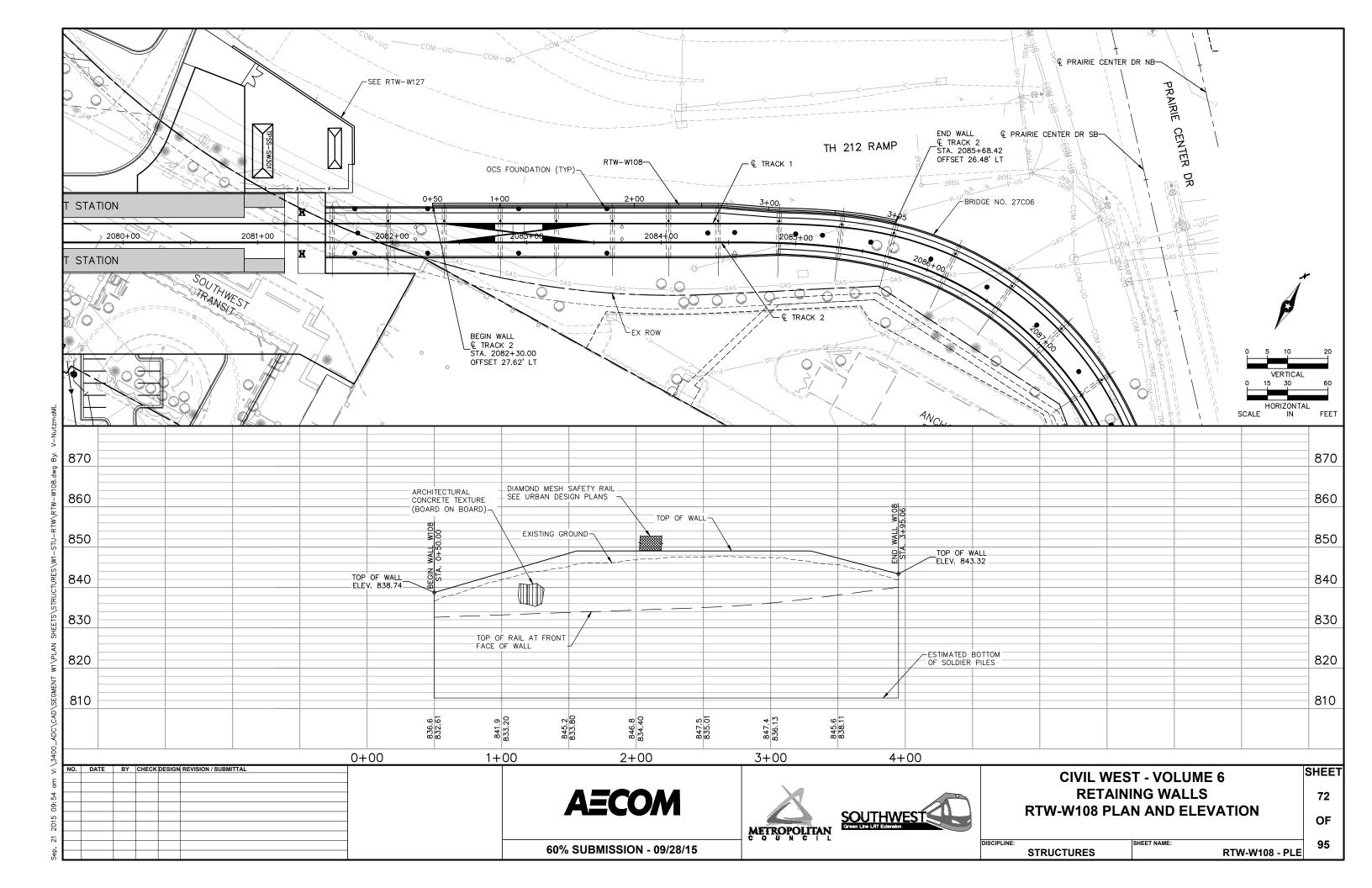
CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W204 GEOMETRY

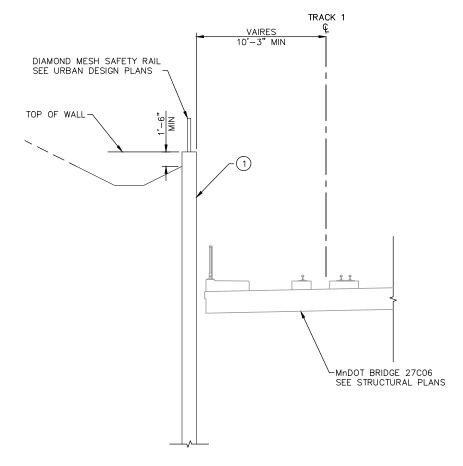
71 OF

SHEET

STRUCTURES

RTW-W204 - DTL





- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- 2. RETAINING WALL TO BE SOLDIER PILE AND LAGGING WALL

RTW-W108 SECTION

NOT TO SCALE

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CIVIL WEST - VOLUME 6
RETAINING WALLS
RTW-W108 GEOMETRY

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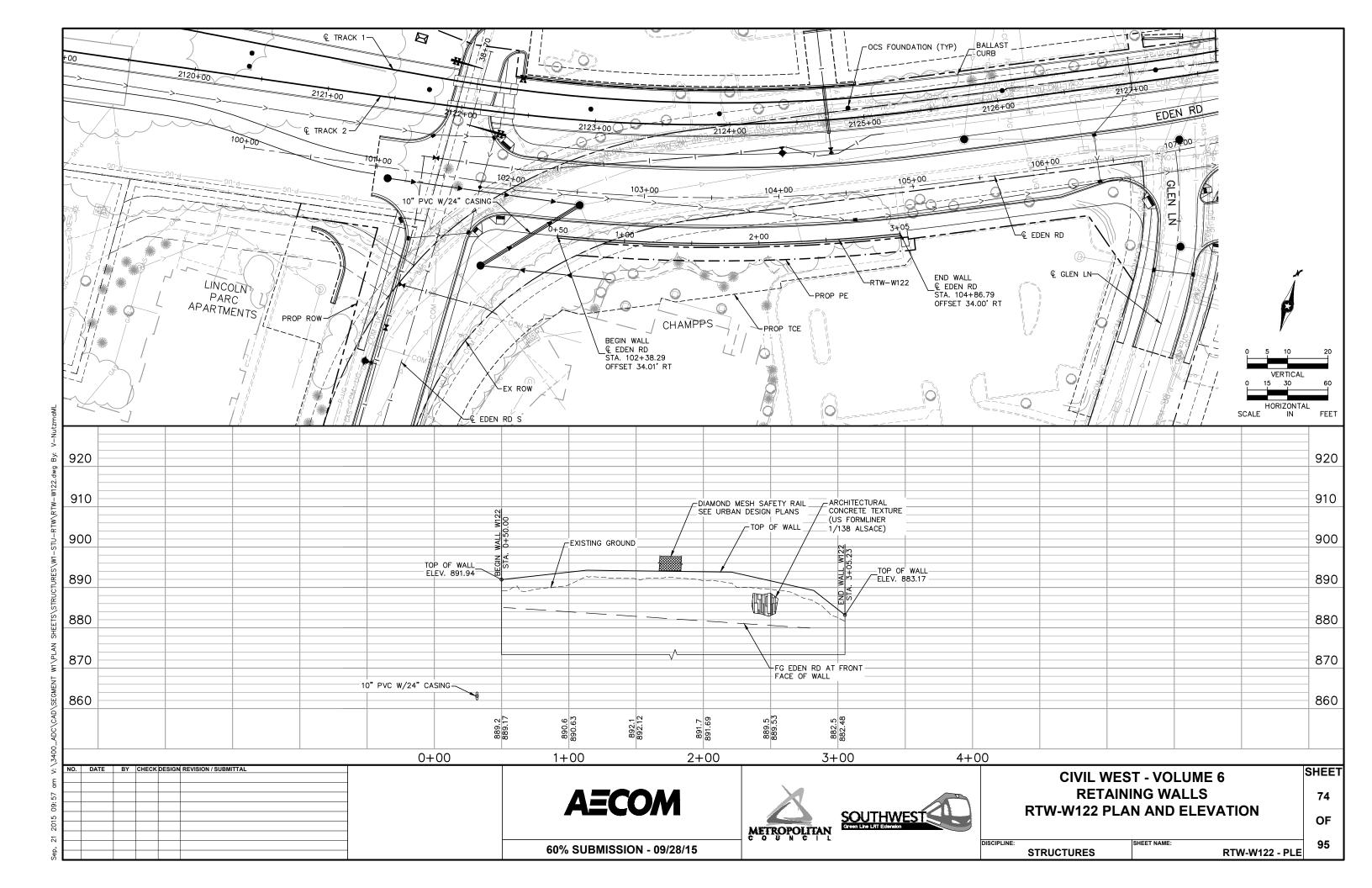
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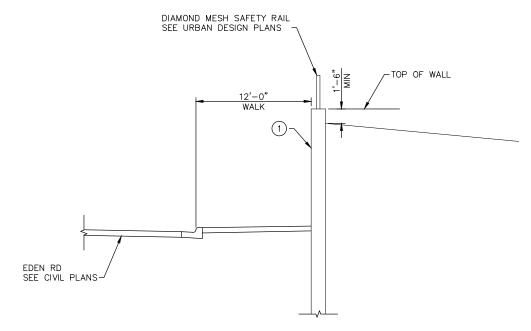
SCIPLINE: STRUCTURES

ET NAME:

RTW-W108 - DTL 9

60% SUBMISSION - 09/28/15





NOTE:
ARCHITECTURAL CONCRETE TEXTURE

2. RETAINING WALL TO BE SOLDIER PILE AND LAGGING WALL

RTW-W122 SECTION

NOT TO SCALE

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CIVIL WEST - VOLUME 6
RETAINING WALLS
RTW-W122 GEOMETRY

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DISCIPLINE:

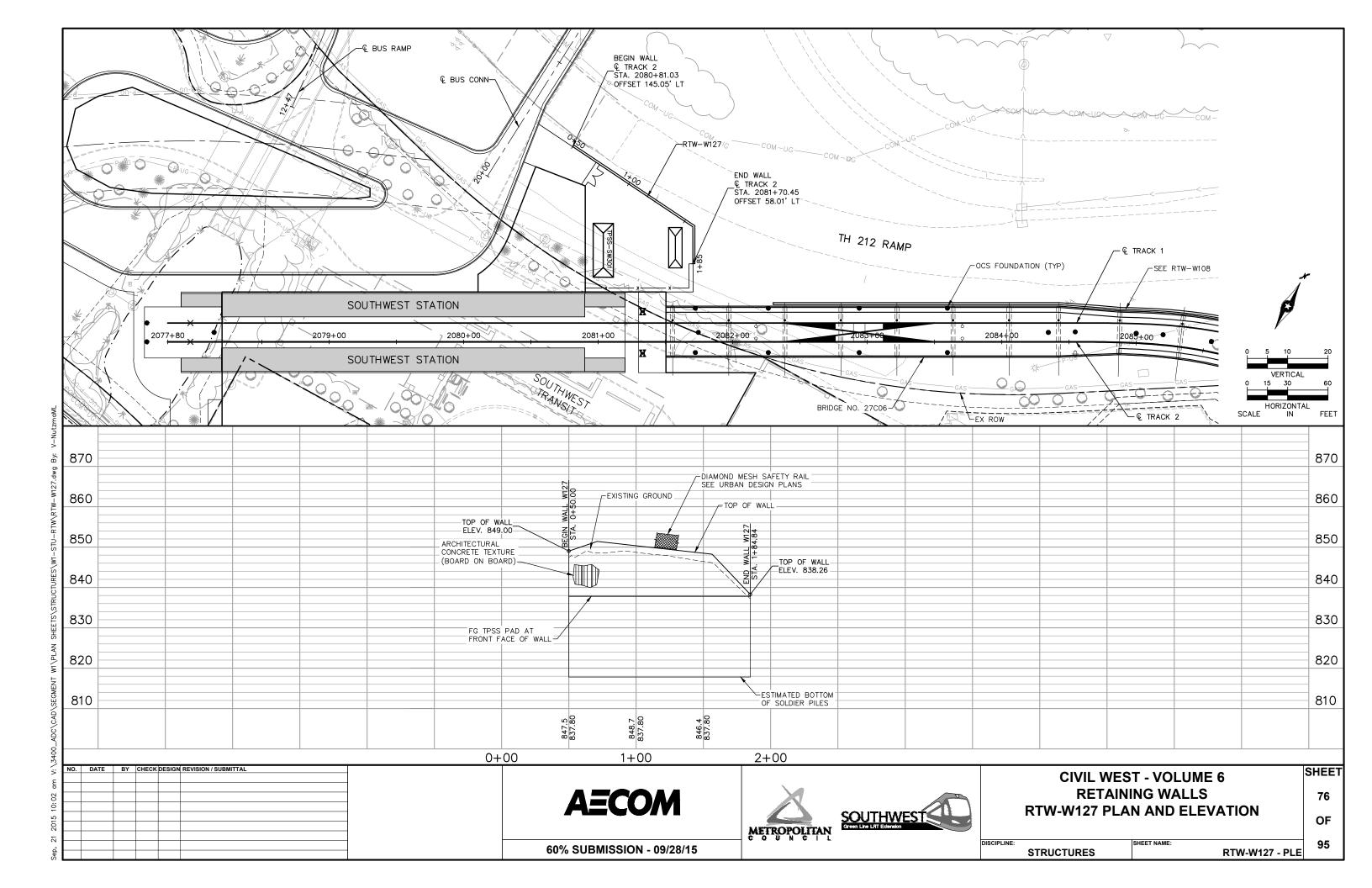
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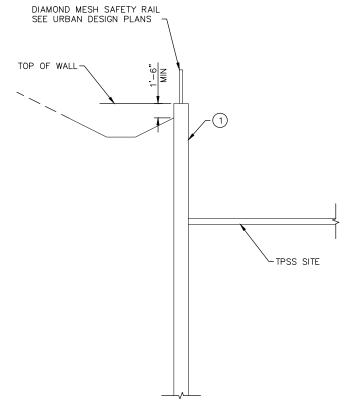
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60% SUBMISSION - 09/28/15

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STRUCTURES





- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- 2. RETAINING WALL TO BE SOLDIER PILE AND LAGGING WALL

RTW-W127 SECTION

NOT TO SCALE

NO.	DAIL	DI	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM





CIVIL WEST - VOLUME 6
RETAINING WALLS
RTW-W127 GEOMETRY

77 OF

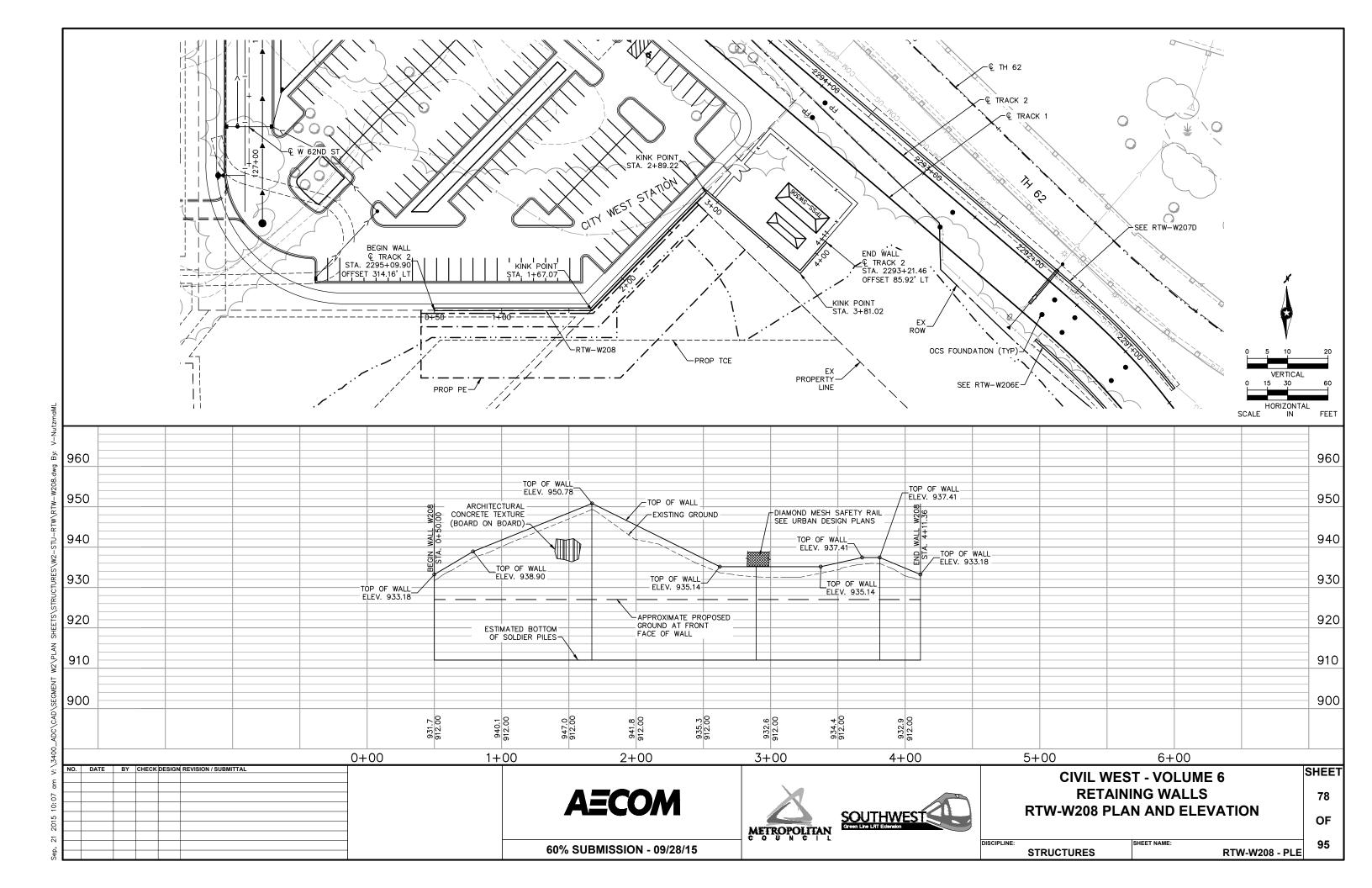
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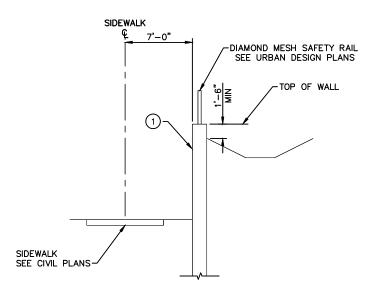
STRUCTURES

IEET NAME:

RTW-W127 - DTL

60% SUBMISSION - 09/28/15





NOTE:
ARCHITECTURAL CONCRETE TEXTURE

2 RETAINING WALL TO BE SOLDIER PILE AND LAGGING WALL

RTW-W208 SECTION NOT TO SCALE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM





CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W208 GEOMETRY

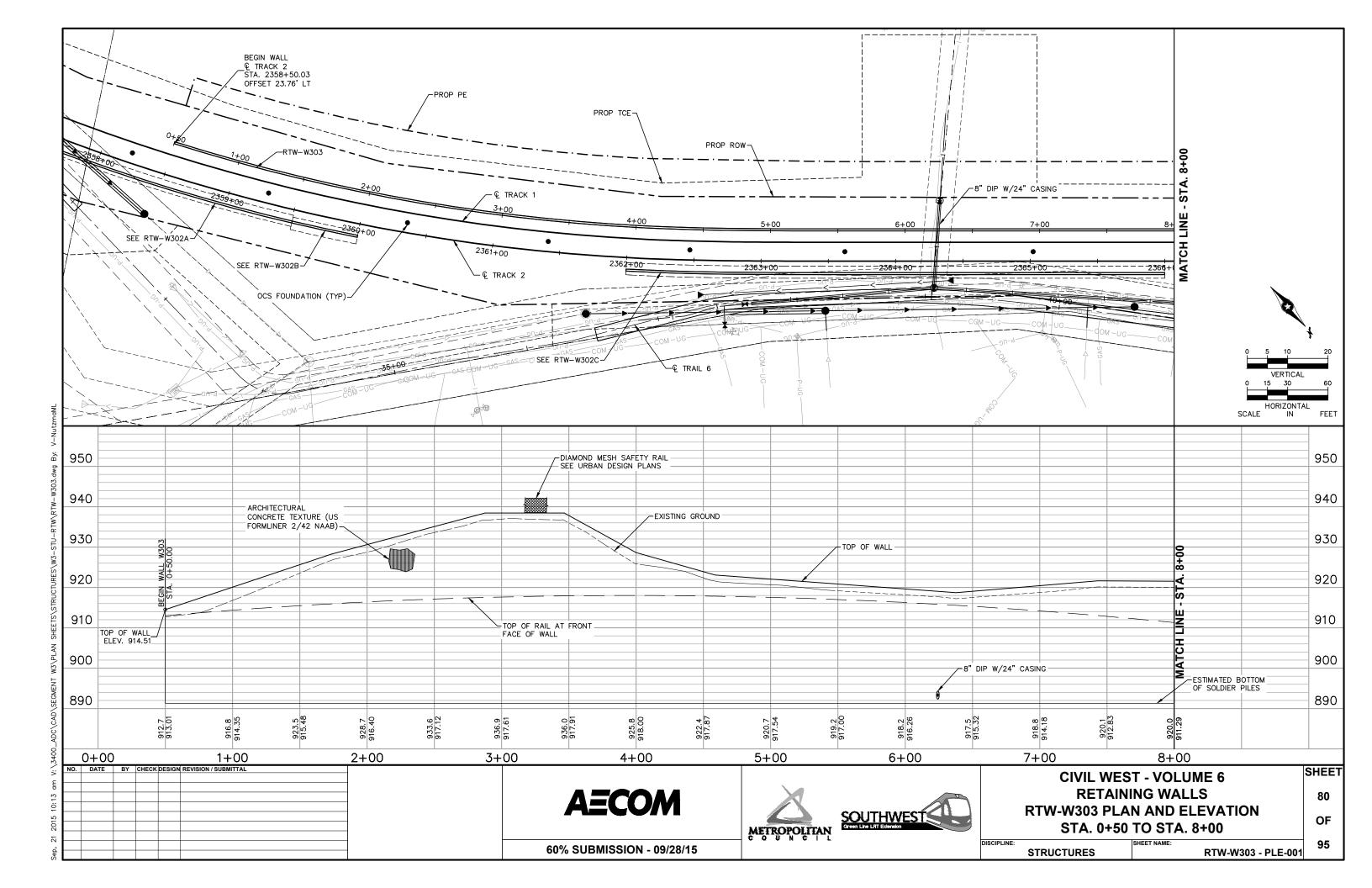
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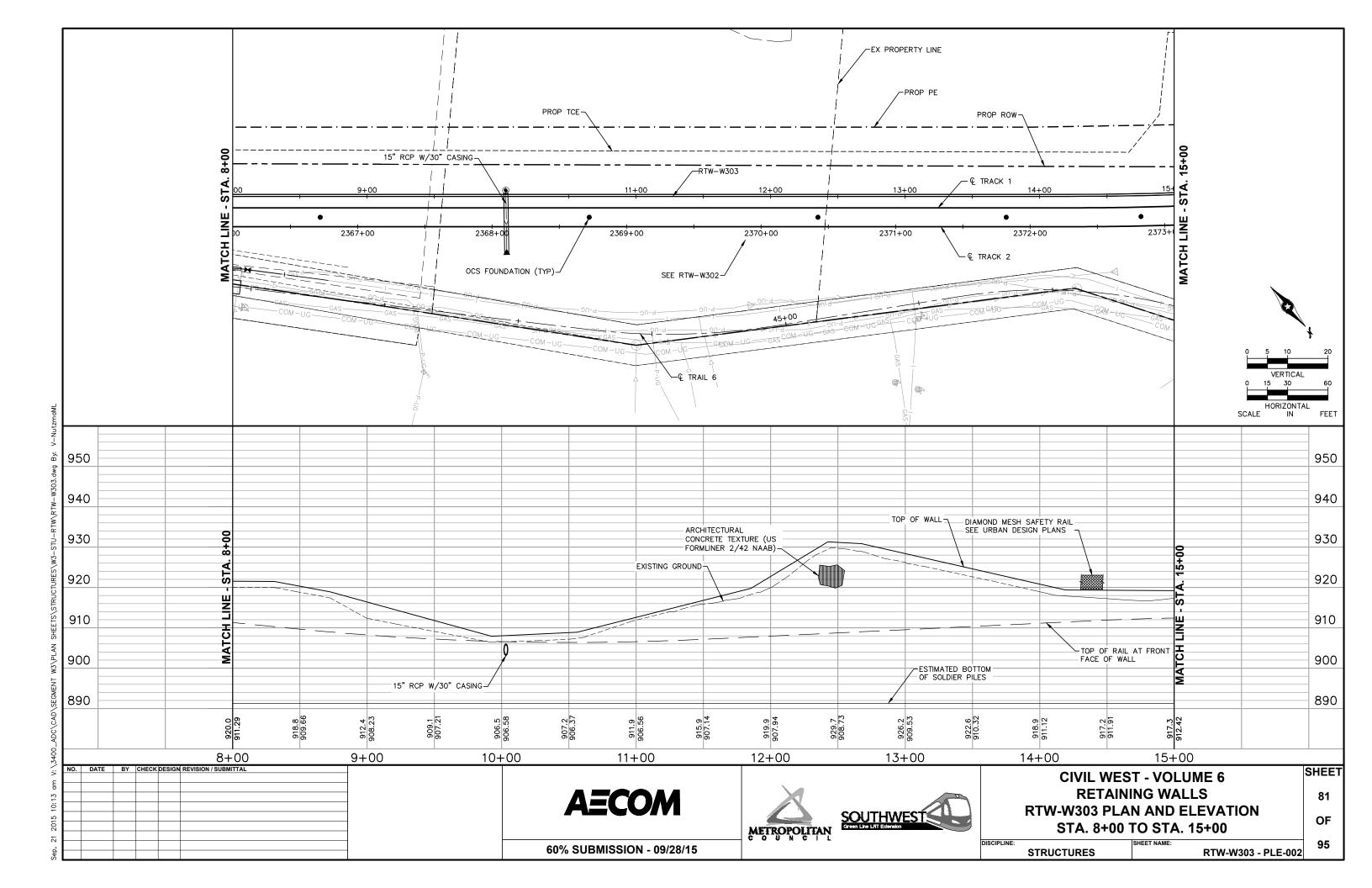
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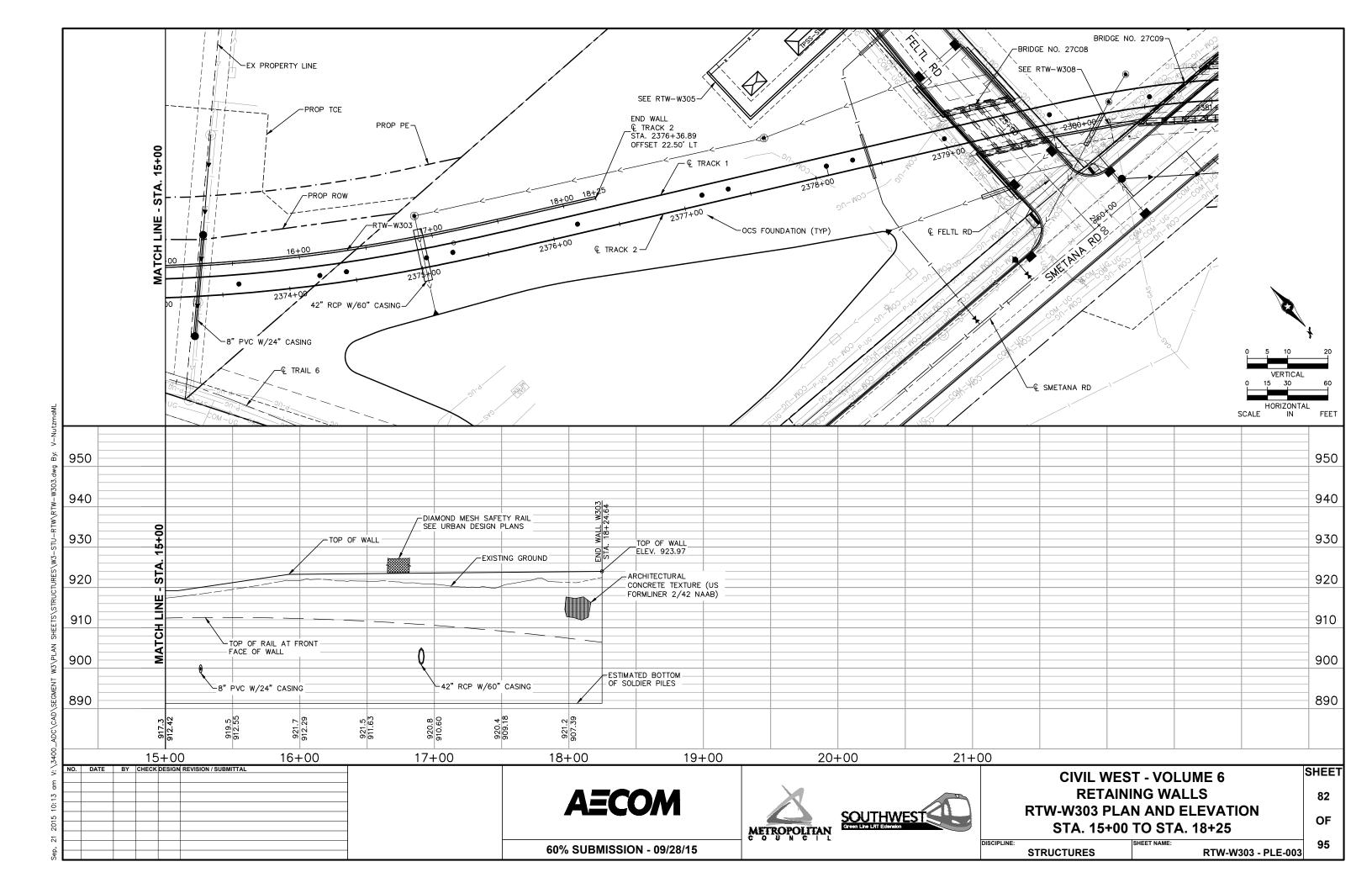
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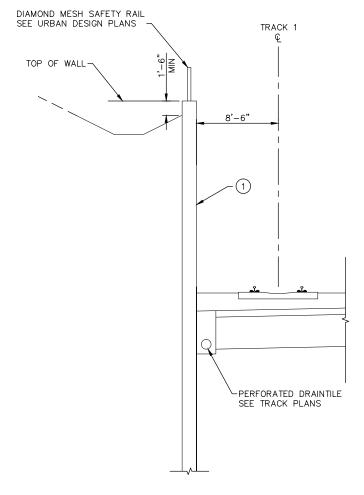
60% SUBMISSION - 09/28/15

RTW-W208 - DTL STRUCTURES









- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- 2. RETAINING WALL TO BE SOLDIER PILE AND LAGGING WALL

RTW-W303 SECTION

NOT TO SCALE

NO.	DAIL	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM





CIVIL WEST - VOLUME 6
RETAINING WALLS
RTW-W303 GEOMETRY

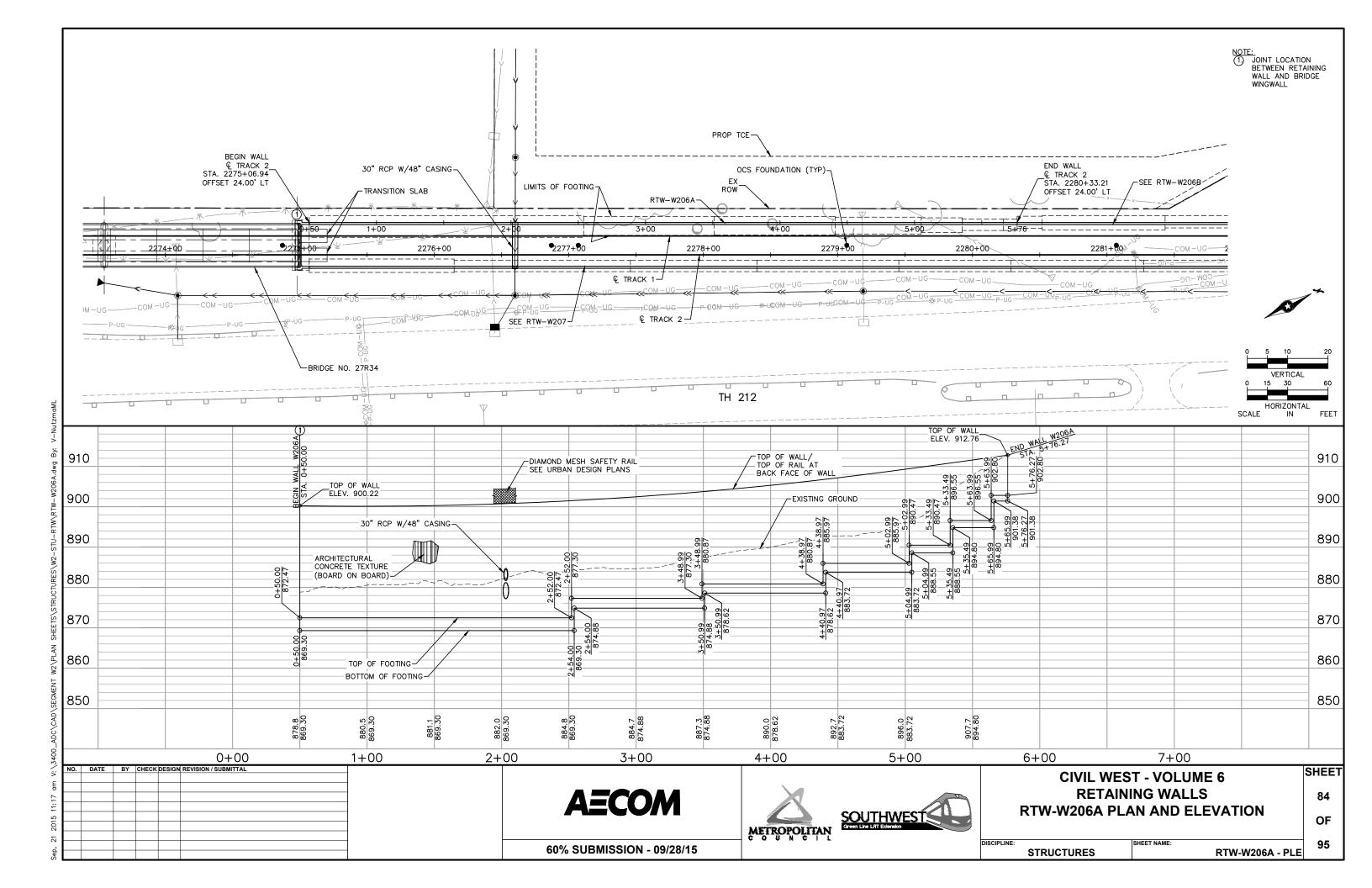
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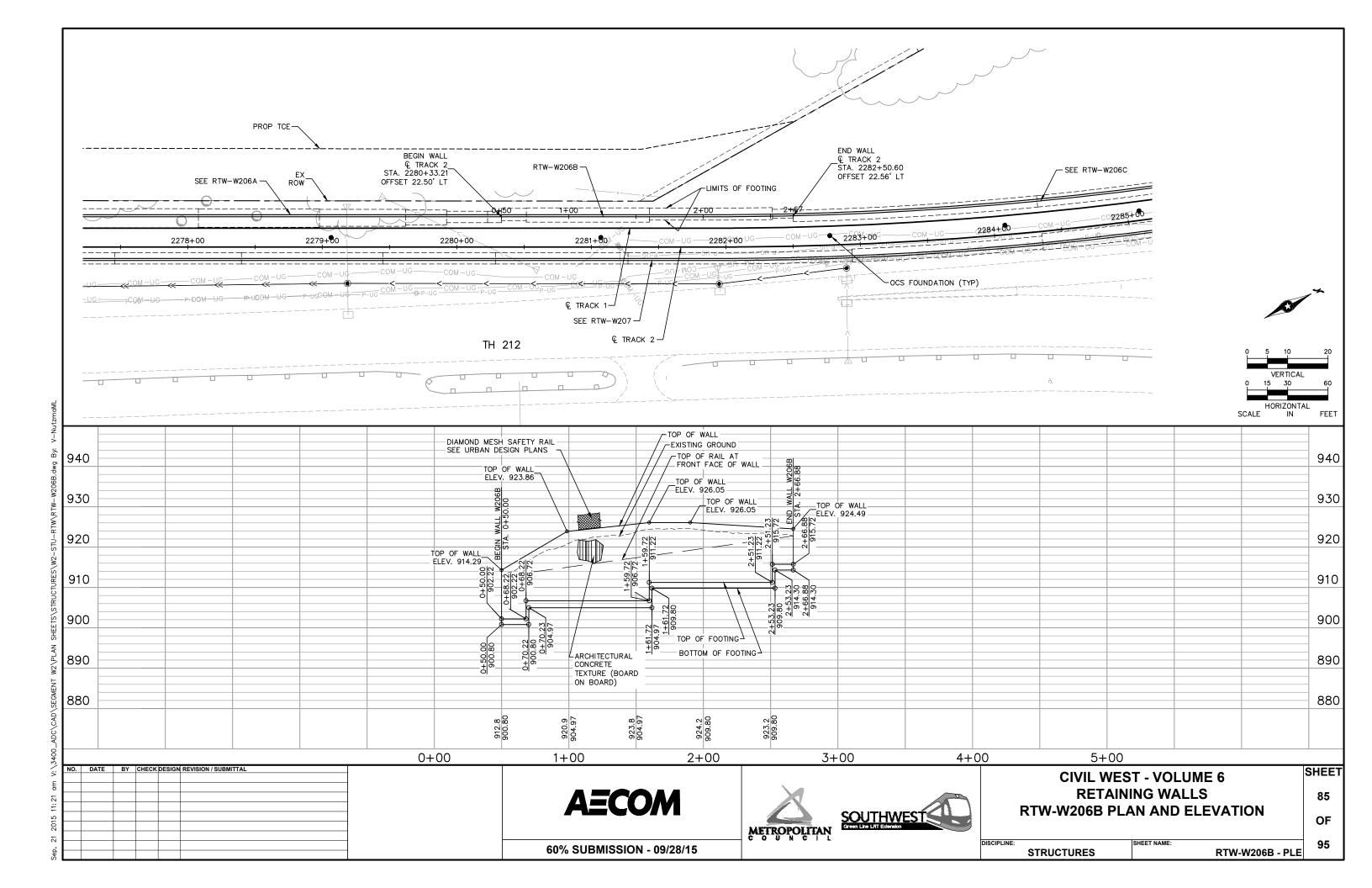
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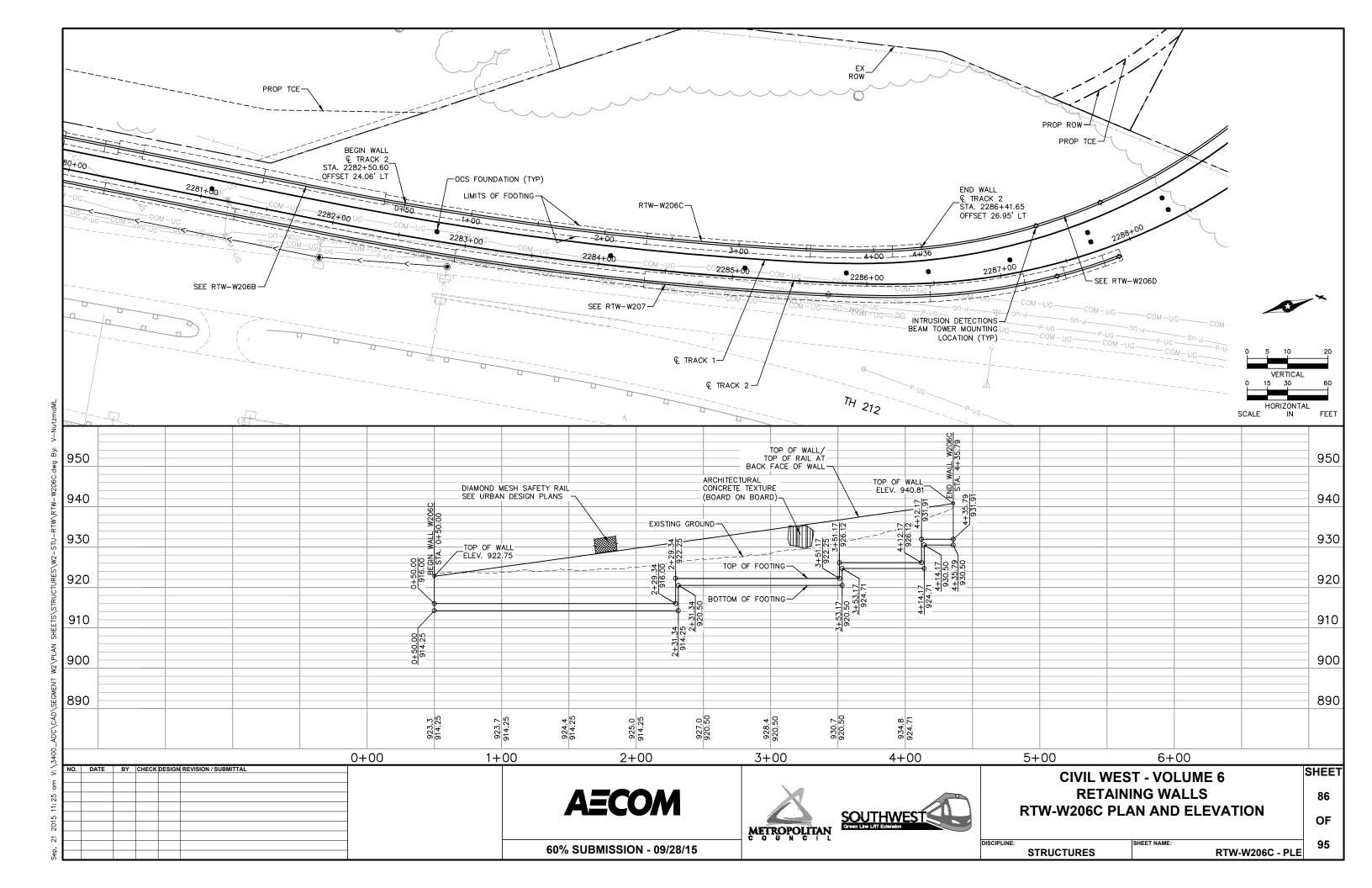
60% SUBMISSION - 09/28/15

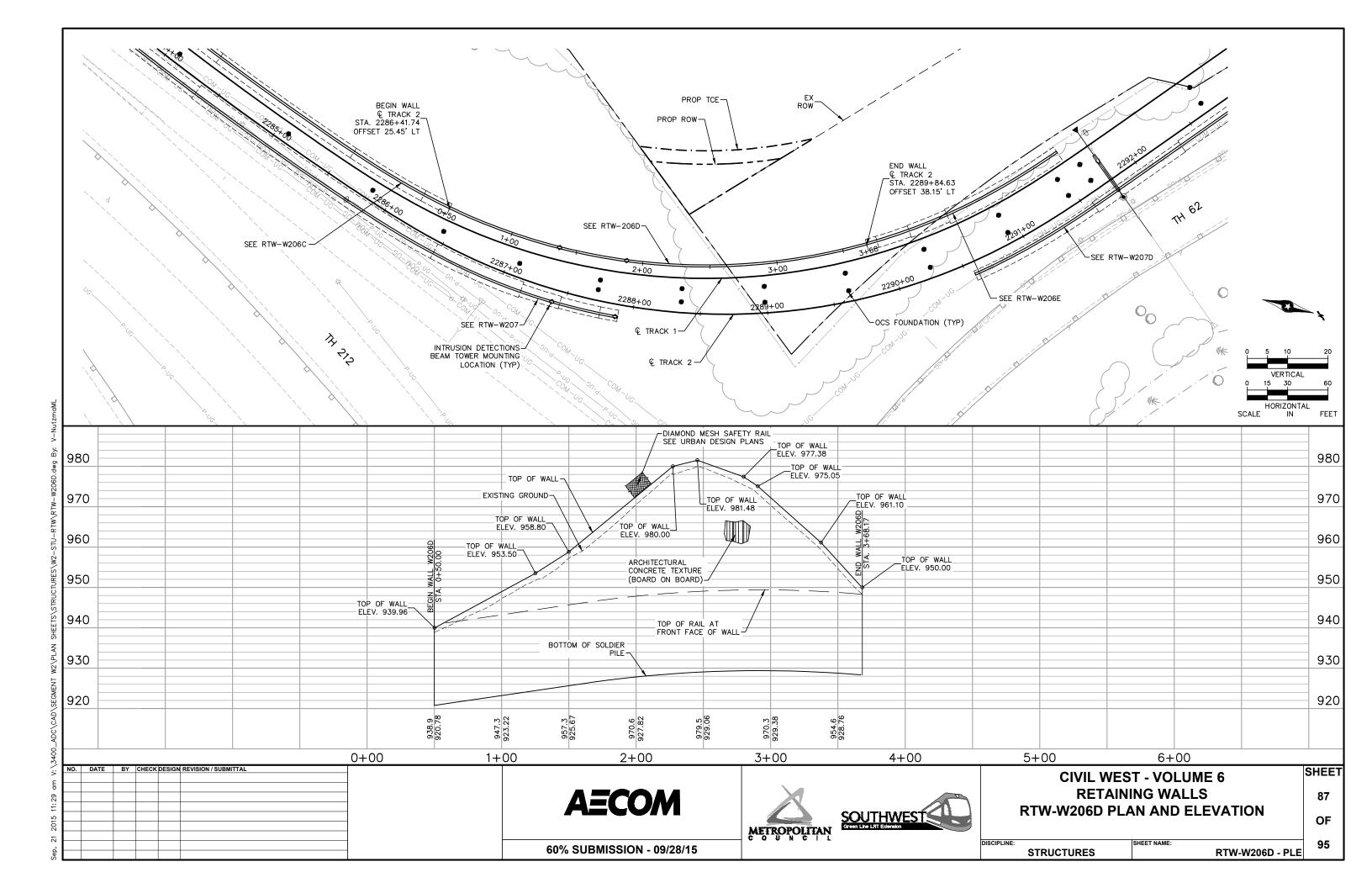
DISCIPLINE: STRUCTURES

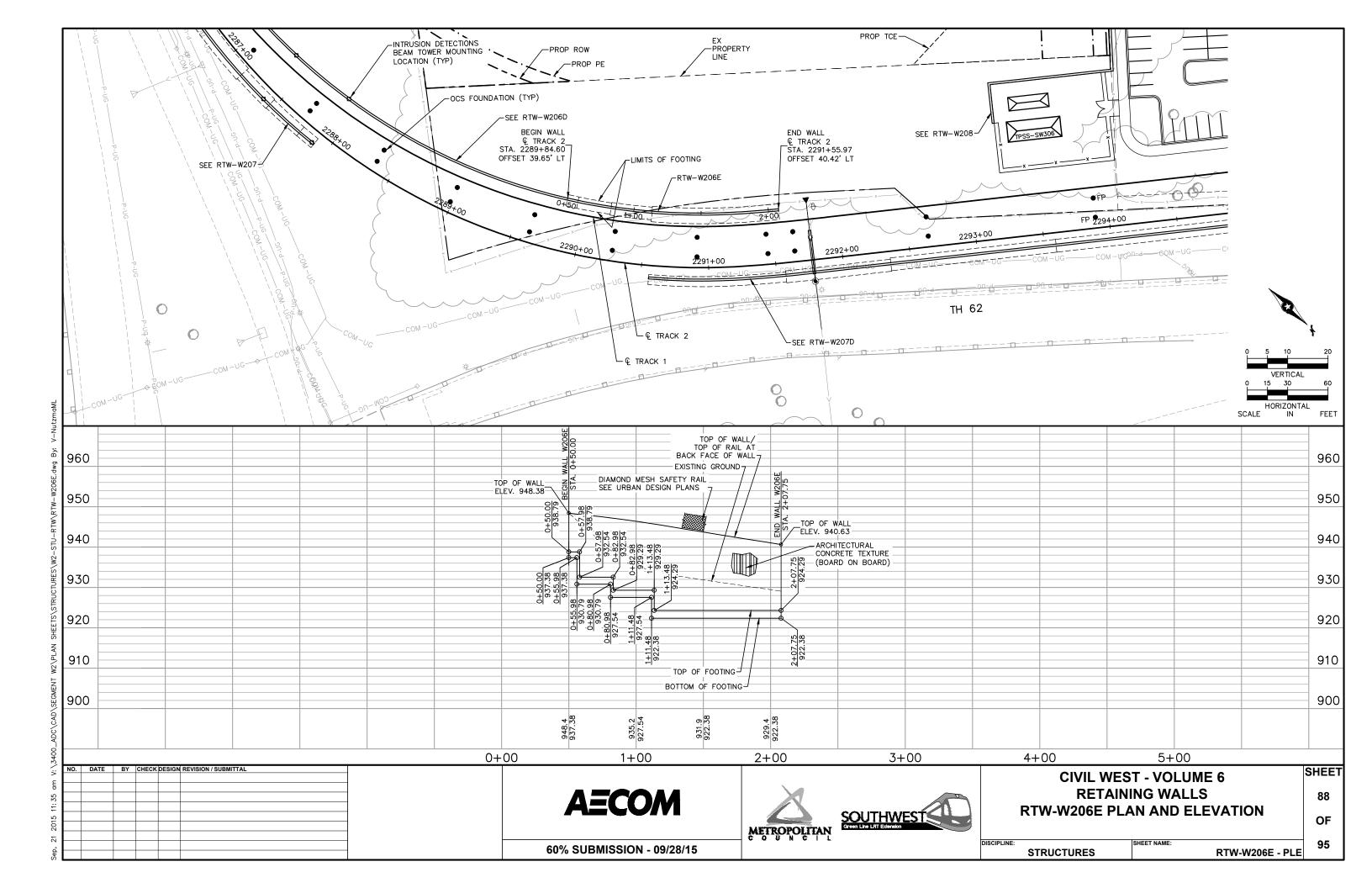
RTW-W303 - DTL

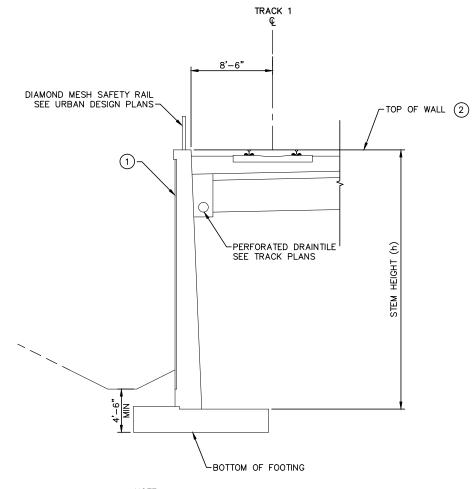






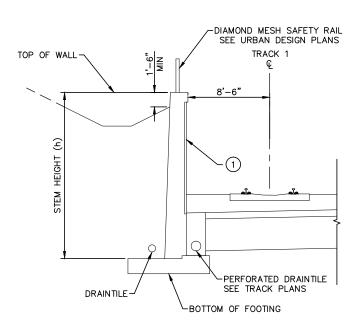






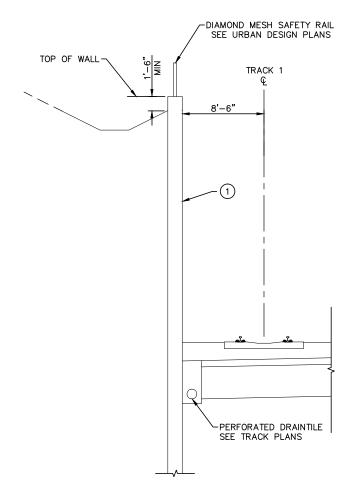
- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- (2) TOP OF WALL = TOP OF RAIL THROUGH TANGENTS
 TOP OF WALL = TOP OF RAIL + SUPERELEVATION (Eq)
 THROUGH OUTSIDE CURVES AND SPIRALS
- 3 RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W206A, RTW-W206C & RTW-W206E SECTION



- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- 2 RETAINING WALL TO BE CIP ON SPREAD FOOTING

RTW-W206B SECTION NOT TO SCALE



- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- 2 RETAINING WALL TO BE SOLDIER PILE AND LAGGING WALL

RTW-W206D SECTION NOT TO SCALE

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM





CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W206 GEOMETRY

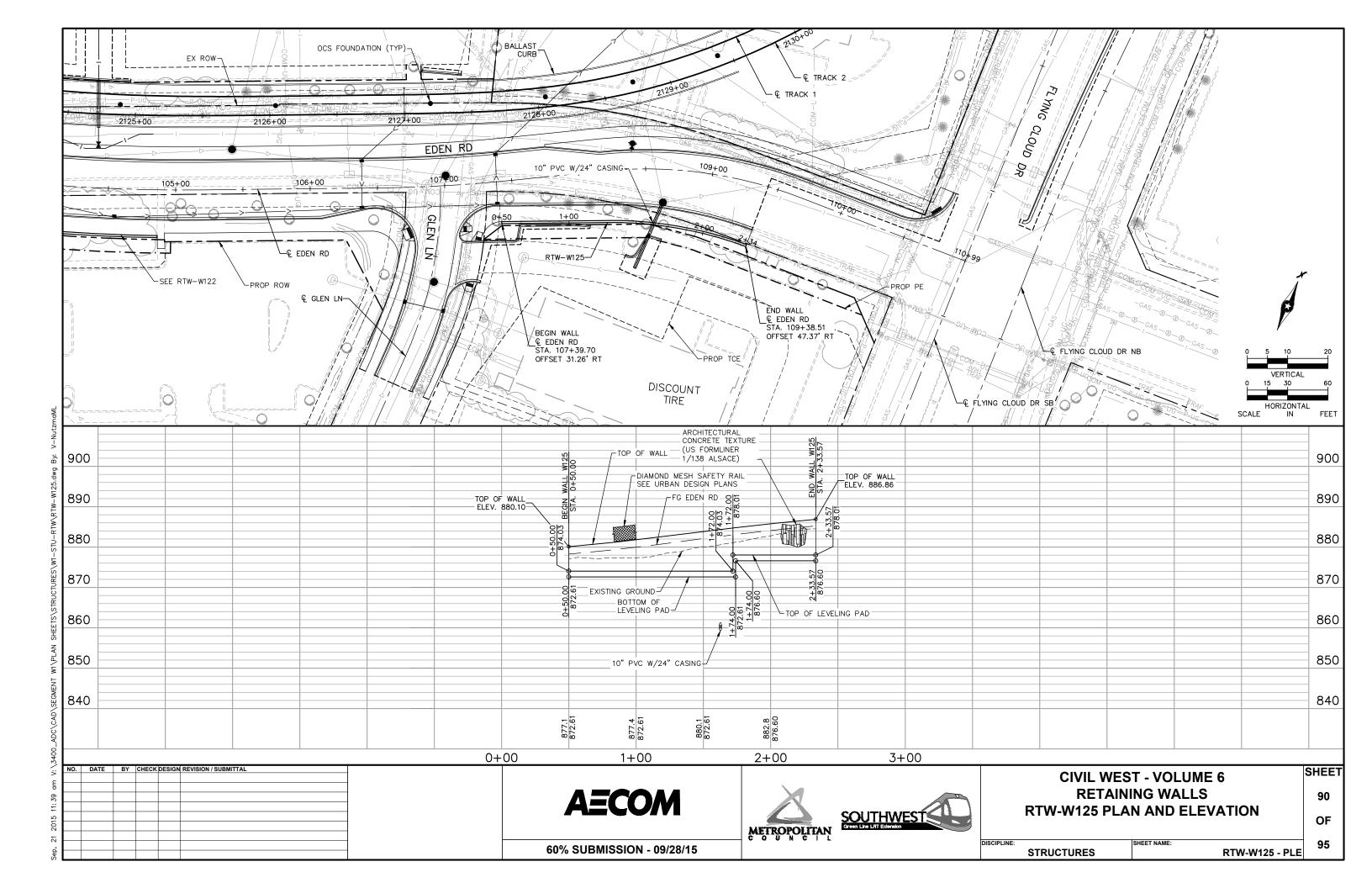
89 OF 95

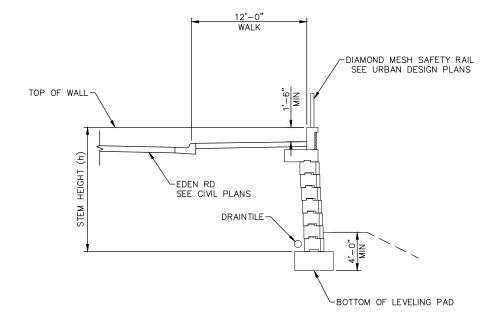
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60% SUBMISSION - 09/28/15

STRUCTURES

RTW-W206 - DTL





NOTE: 1. RETAINING WALL TO BE PMBW

RTW-W125 SECTION NOT TO SCALE

AECOM





CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W125 GEOMETRY

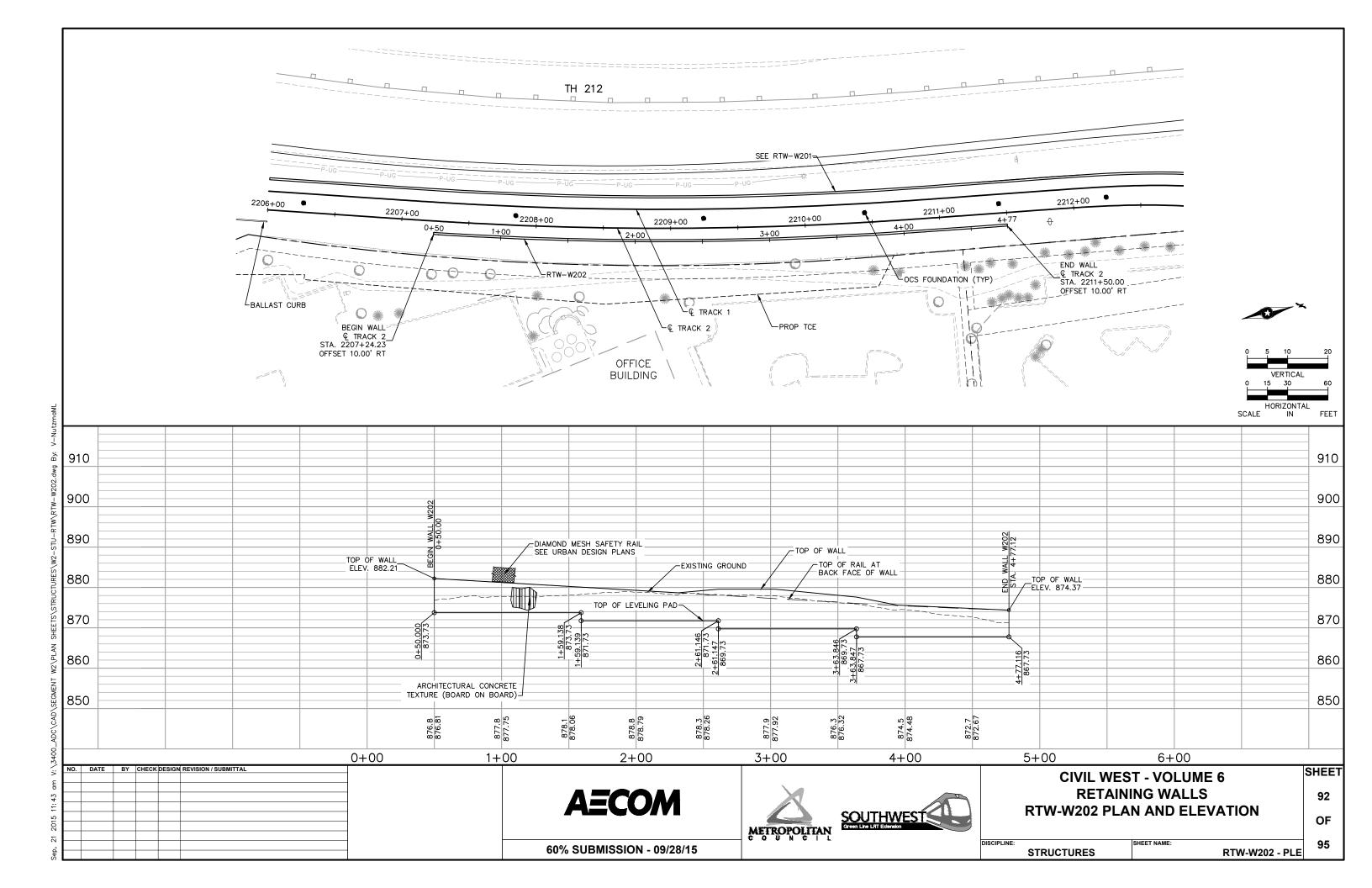
91 OF

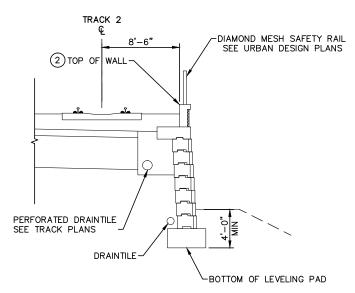
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DISCIPLINE: STRUCTURES

RTW-W125 - DTL

60% SUBMISSION - 09/28/15





- NOTE:
 ARCHITECTURAL CONCRETE TEXTURE
- (2) TOP OF WALL = TOP OF RAIL THROUGH TANGENTS
 TOP OF WALL = TOP OF RAIL + SUPERELEVATION (Eq)
 THROUGH OUTSIDE CURVES AND SPIRALS
- 3 RETAINING WALL TO BE PMBW

RTW-W202 SECTION

NO.	DATE	BY	CHECK	DESIGN	REVISION / SUBMITTAL

AECOM





CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W202 GEOMETRY

93 OF

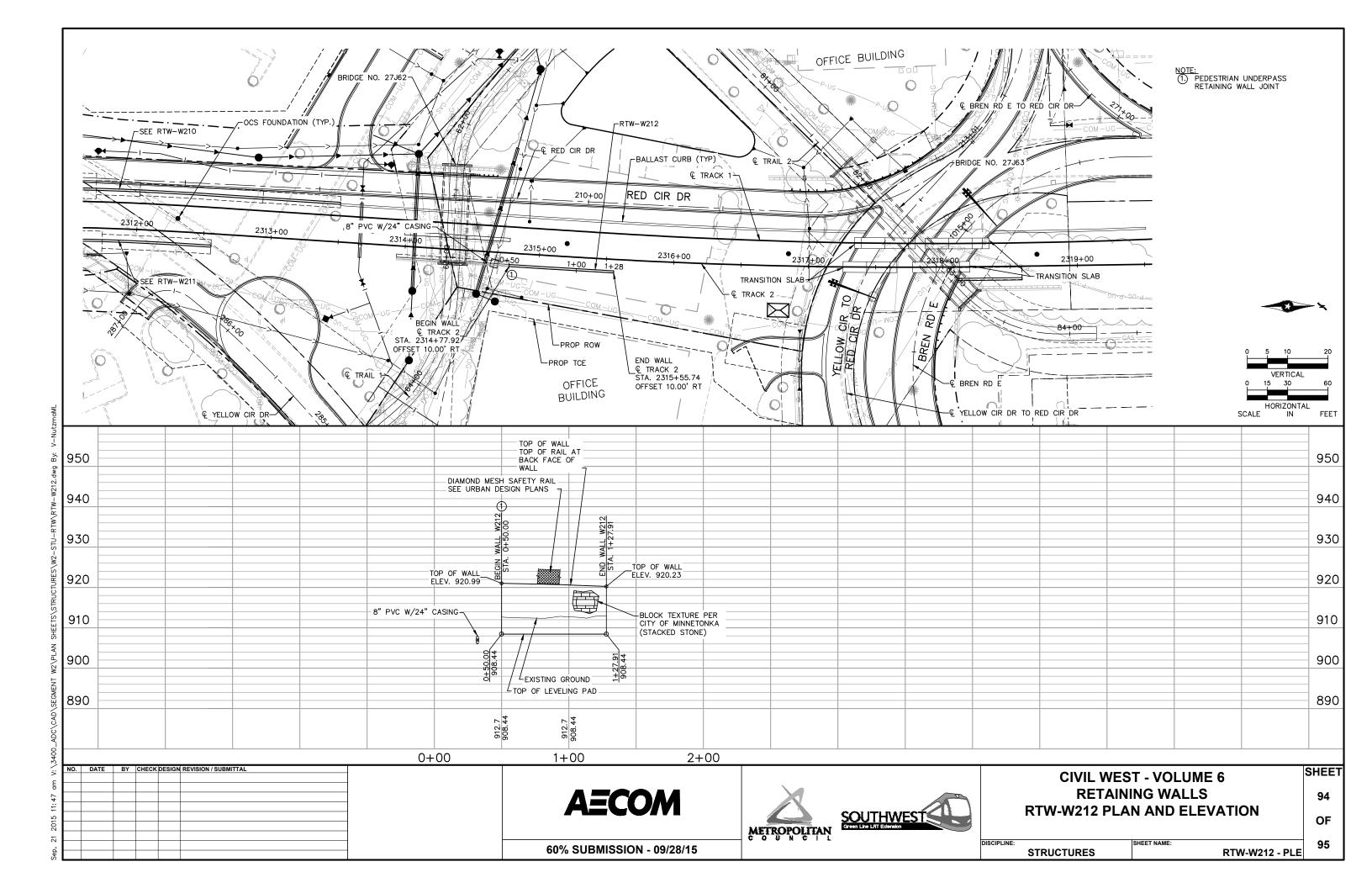
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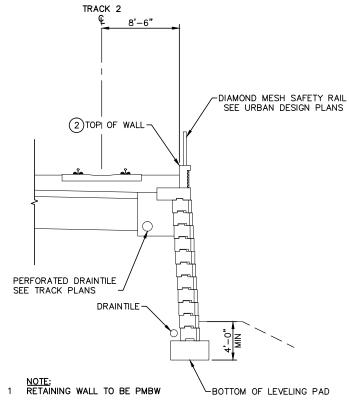
DISCIPLINE:

RTW-W202 - DTL

60% SUBMISSION - 09/28/15

STRUCTURES





(2) TOP OF WALL = TOP OF RAIL THROUGH TANGENTS TOP OF WALL = TOP OF RAIL + SUPERELEVATION (Eq) THROUGH OUTSIDE CURVES AND SPIRALS

RTW-W212 SECTION NOT TO SCALE

NO. DATE BY CHECK DESIGN REVISION / SUBMITTAL

AECOM





CIVIL WEST - VOLUME 6 RETAINING WALLS RTW-W212 GEOMETRY

95 OF 95

SHEET

60% SUBMISSION - 09/28/15

STRUCTURES

RTW-W212 - DTL