

AKERS DR & ACCESS RD ROUNDABOUT CONSTRUCTION DOCUMENTS

CITY OF COLORADO SPRINGS, COUNTY OF EL PASO, STATE OF COLORADO

CONTACTS:

OWNER:
THE CITIZEN ON CONSTITUTION, LLC.
C/O THE GARRETT COMPANIES, INC.
1051 GREENWOOD SPRINGS BLVD, SUITE 101
GREENWOOD, IN 46143
TEL: (317) 497-8275
CONTACT: ANDREW WHITE

ENGINEER:
KIMLEY-HORN AND ASSOCIATES, INC.
4582 SOUTH ULSTER STREET, SUITE 1500
DENVER, CO 80237
TEL: (303) 228-2300
CONTACT: SEAN HAYS, P.E.

EL PASO COUNTY:
EL PASO COUNTY
PCD DEPARTMENT
2880 INTERNATIONAL CIRCLE, SUITE 110
COLORADO SPRINGS, CO 80910
PHONE: (719) 520-6300

SURVEYOR:
BARRON LAND, LLC
2790 N. ACADEMY BLVD, SUITE 311
COLORADO SPRINGS, CO 80917
TEL: (719) 360-6827
CONTACT: SPENCER BARRON, PLS

DEVELOPER'S SIGNATURE BLOCK

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

NAME _____ DATE 10/26/2022

ENGINEER'S SIGNATURE BLOCK

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH THE APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THE DETAILED PLANS AND SPECIFICATIONS.



10/26/2022

SEAN HAYS, PE - KIMLEY-HORN AND ASSOCIATES, INC. DATE

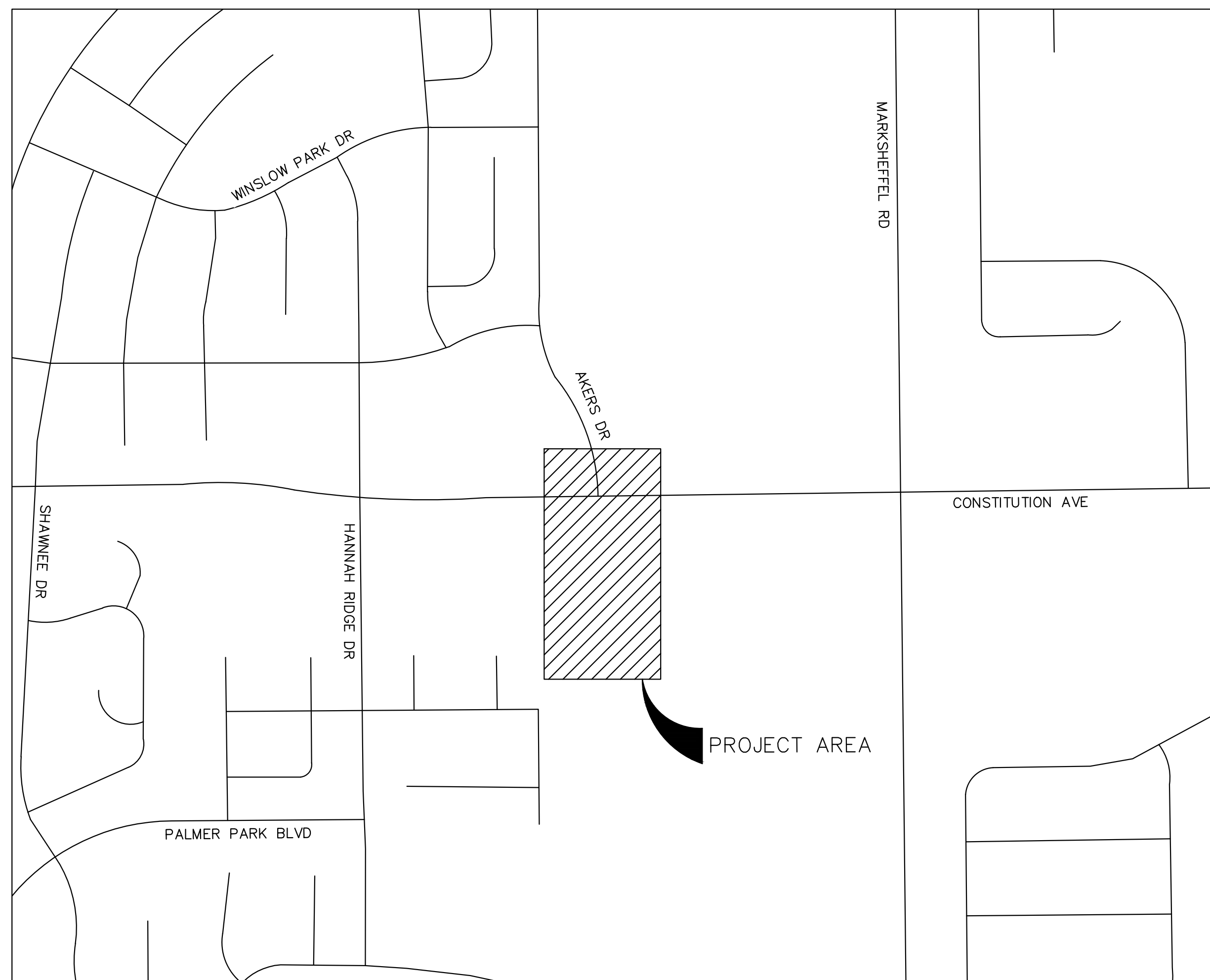
EL PASO COUNTY REVIEW STATEMENT

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN DIMENSIONS AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

JOSHUA PALMER, P.E. DATE
COUNTY ENGINEER / ECM ADMINISTRATOR



VICINITY MAP
N.T.S.

SHEET INDEX:

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- 20 ROADWAY PLAN - MARKSHEFFEL ACCESS

DESIGN DATA	AKERS DR	ACCESS RD
ADT (2023)	1100	N/A
ADT (2045)	1700	N/A
DESIGN SPEED	40 MPH*	25 MPH
POSTED SPEED	35 MPH*	25 MPH
ROAD CLASSIFICATION	URBAN NON-RESIDENTIAL COLLECTOR	PRIVATE ACCESS
MINIMUM RADIUS OF CURVE	565'	300'
MINIMUM K-VALUE (CREST/SAG)	44'/64'	19'/37'
MINIMUM VERTICAL GRADE	0.5%	0.5%
MINIMUM SSD	305'	200'
CLEAR ZONE DISTANCE	12'-14'	N/A

SEE DESIGN DOCUMENTATION MEMORANDUM DATED 9/09/2022 FOR ADDITIONAL DETAILS OF ROUNDABOUT GEOMETRICS.



DESIGNED BY: SMH
DRAWN BY: TL
CHECKED BY: CEH
DATE: 10/20/2022

AKERS DR & ACCESS ROAD ROUNDABOUT
EL PASO COUNTY, COLORADO
ROADWAY CONSTRUCTION DOCUMENTS
COVER SHEET



PROJECT NO.
096481004

SHEET

1

PCD FILING NO.: SF-226



STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
 - A. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - B. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
 - C. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 - D. CDOT M & S STANDARDS
4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ON-SITE AND OFF-SITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DPW AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DPW, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

STANDARD NOTES FOR EL PASO COUNTY SIGNING & STRIPING PLANS

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
7. ALL STREET NAME SIGNS SHALL HAVE 'D' SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS"
8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.
12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

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NO.	REVISION	BY	DATE	APPR.

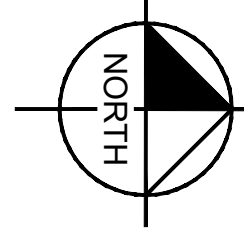
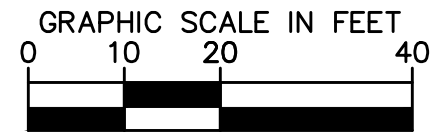
Kimley»Horn
 2022 KIMLEY-HORN AND ASSOCIATES, INC.
 4882 South Ulster Street, Suite 1500
 Denver, CO 80237 (303) 228-2300

DESIGNED BY: SMH
 DRAWN BY: TL
 CHECKED BY: CEH
 DATE: 10/20/2022

AKERS DR & ACCESS ROAD ROUNDABOUT
 EL PASO COUNTY, COLORADO
 ROADWAY CONSTRUCTION DOCUMENTS
GENERAL NOTES



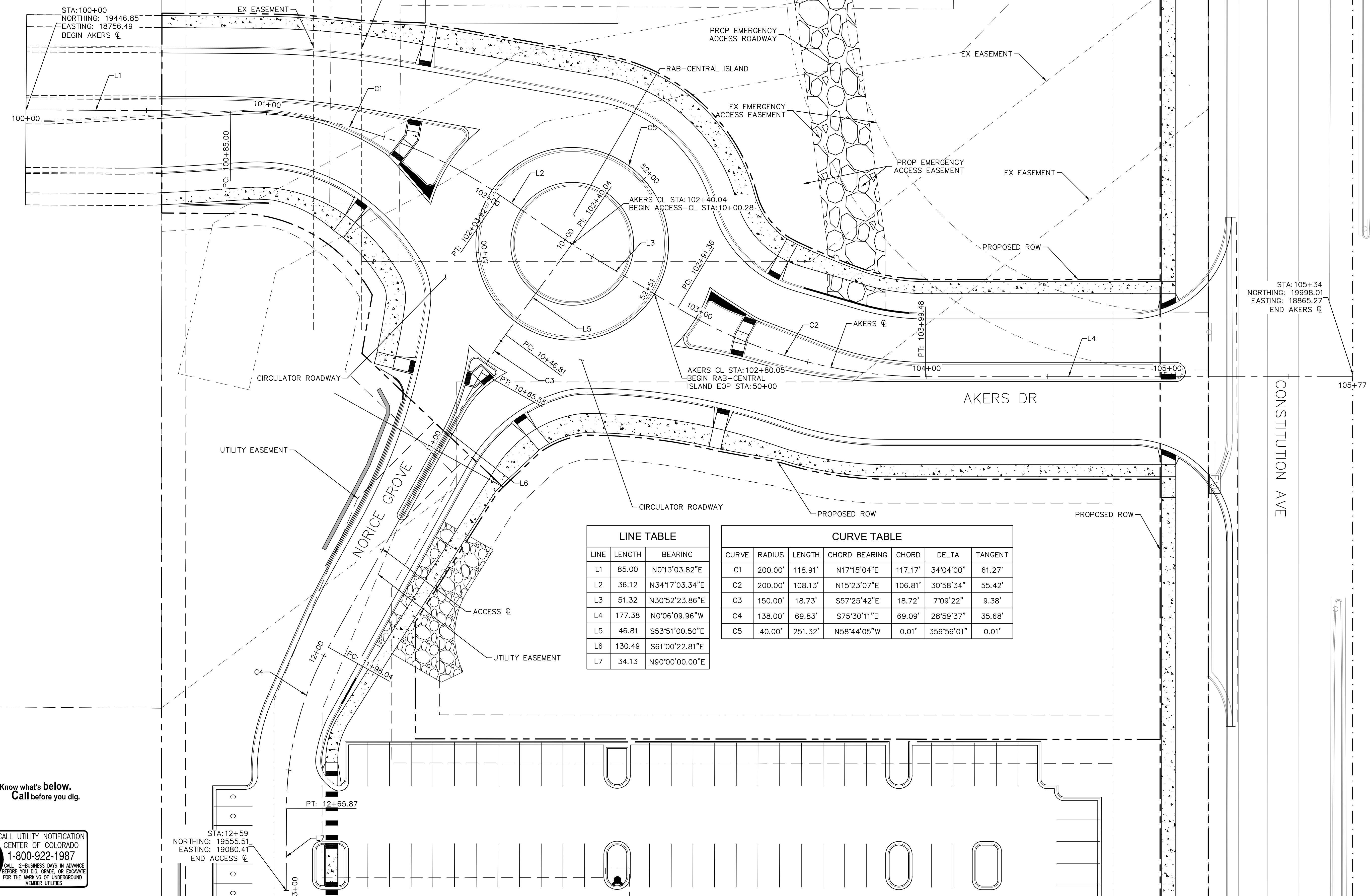
PROJECT NO.
096481004
 SHEET
2



FOUND #5 REBAR WITH ORANGE PLASTIC CAP STAMPED 38069 ACCEPTED AS 1' WITNESS CORNER

FOUND #5 REBAR WITH YELLOW PLASTIC CAP STAMPED 38367 ACCEPTED AS 1' WITNESS CORNER

FOUND #5 REBAR (60' WITNESS CORNER) EAST 1/8 CORNER SECTION 5, T14S, R65W



LINE TABLE		
LINE	LENGTH	BEARING
L1	85.00	N0°13'03.82"E
L2	36.12	N34°17'03.34"E
L3	51.32	N30°52'23.86"E
L4	177.38	N0°06'09.96"W
L5	46.81	S53°51'00.50"E
L6	130.49	S61°00'22.81"E
L7	34.13	N90°00'00.00"E

CURVE TABLE							
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT	
C1	200.00'	118.91'	N17°15'04"E	117.17'	34°04'00"	61.27'	
C2	200.00'	108.13'	N15°23'07"E	106.81'	30°58'34"	55.42'	
C3	150.00'	18.73'	S57°25'42"E	18.72'	7°09'22"	9.38'	
C4	138.00'	69.83'	S75°30'11"E	69.09'	28°59'37"	35.68'	
C5	40.00'	251.32'	N58°44'05"W	0.01'	359°59'01"	0.01'	



CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

STA: 12+59
NORTHING: 19555.51
EASTING: 19080.41
END ACCESS

NO.	REVISION	BY	DATE	APPR.

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Denver, CO 80237 (303) 228-2300

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DRAWN BY: TL
CHECKED BY: CEH
DATE: 10/20/2022

AKERS DR & ACCESS ROAD ROUNDABOUT
EL PASO COUNTY, COLORADO
ROADWAY CONSTRUCTION DOCUMENTS
HORIZONTAL CONTROL

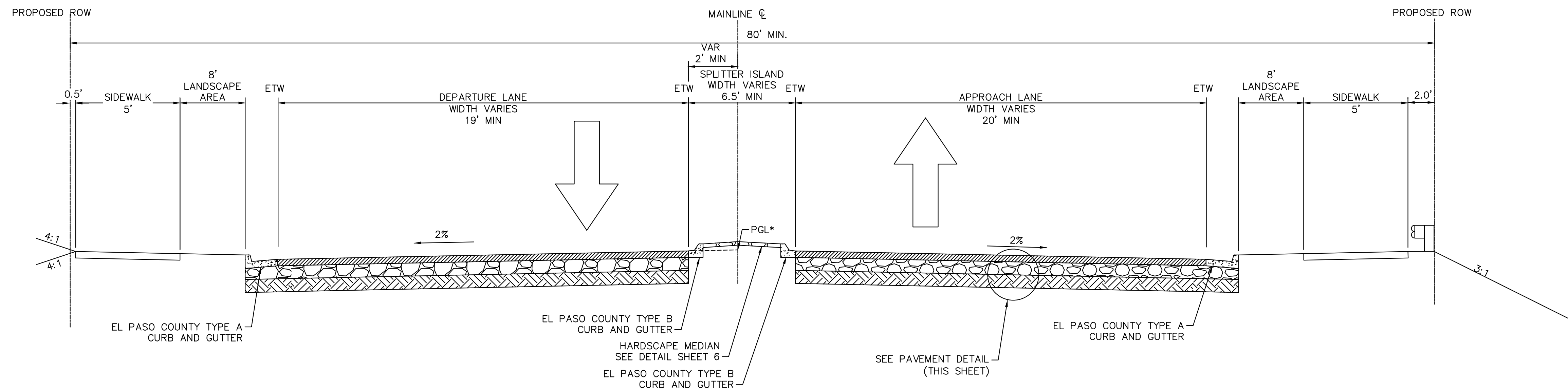


PROJECT NO.
096481004

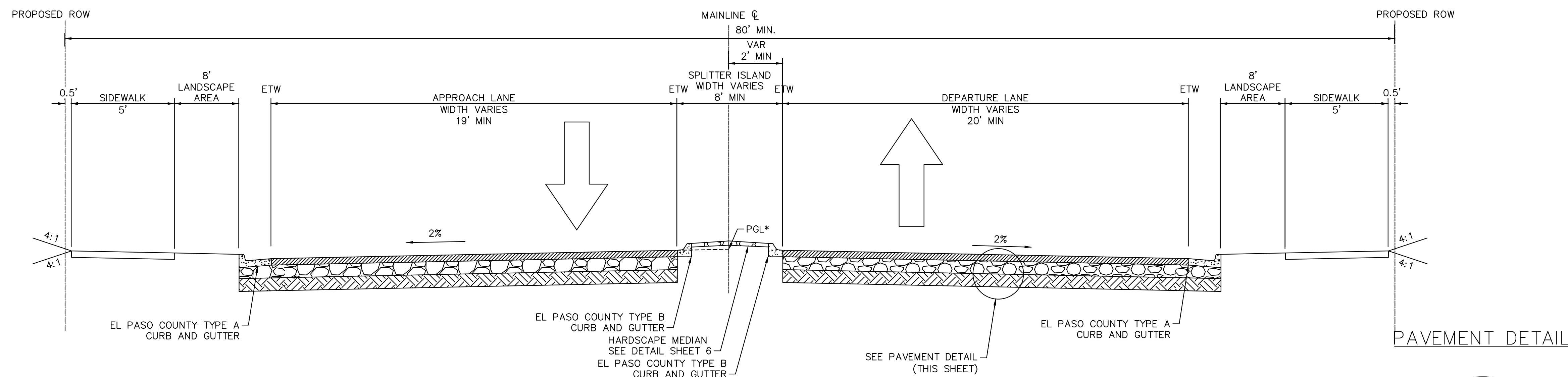
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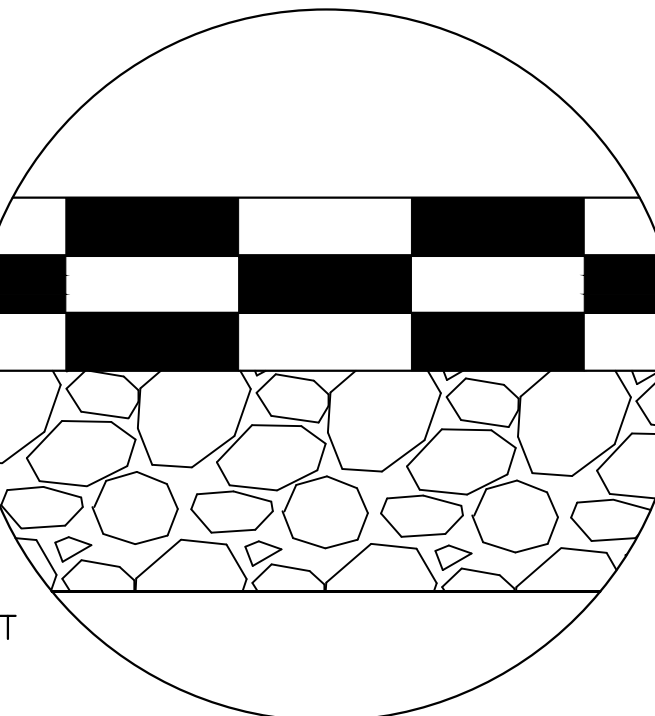
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SOUTH LEG TYPICAL SECTION APPROACH



NORTH LEG TYPICAL SECTION APPROACH



4" OF HOT MIX ASPHALT

9" AGGREGATE BASE COURSE

(PAVEMENT THICKNESS INFO. FOR BID PURPOSES ONLY - REFERENCE PAVEMENT REPORT FOR ADDITIONAL INFO.)

ABBREVIATIONS:
 ETW = EDGE OF TRAVELWAY
 ROW = RIGHT OF WAY

* PGL IS A 2% PROJECT UP FROM THE ETW

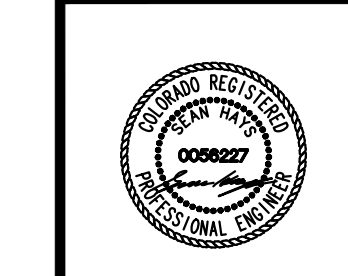


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 EL PASO COUNTY, COLORADO
 ROADWAY CONSTRUCTION DOCUMENTS
 TYPICAL SECTIONS

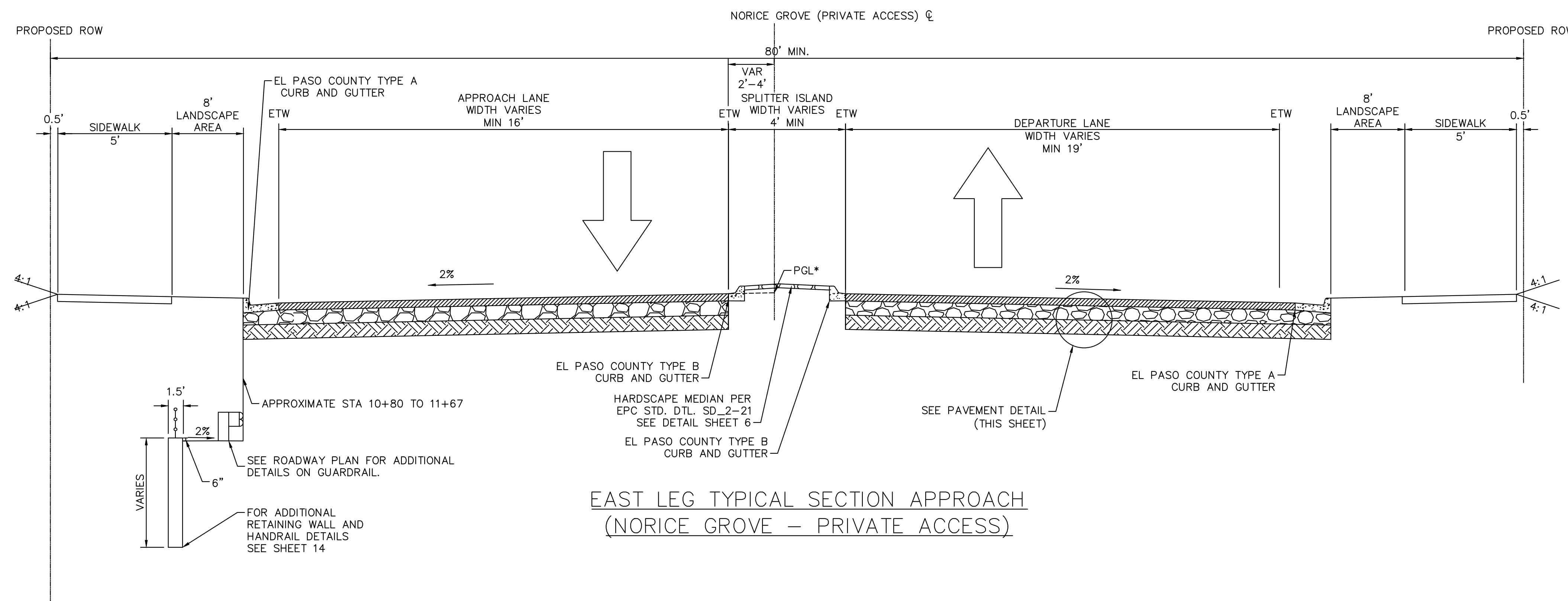


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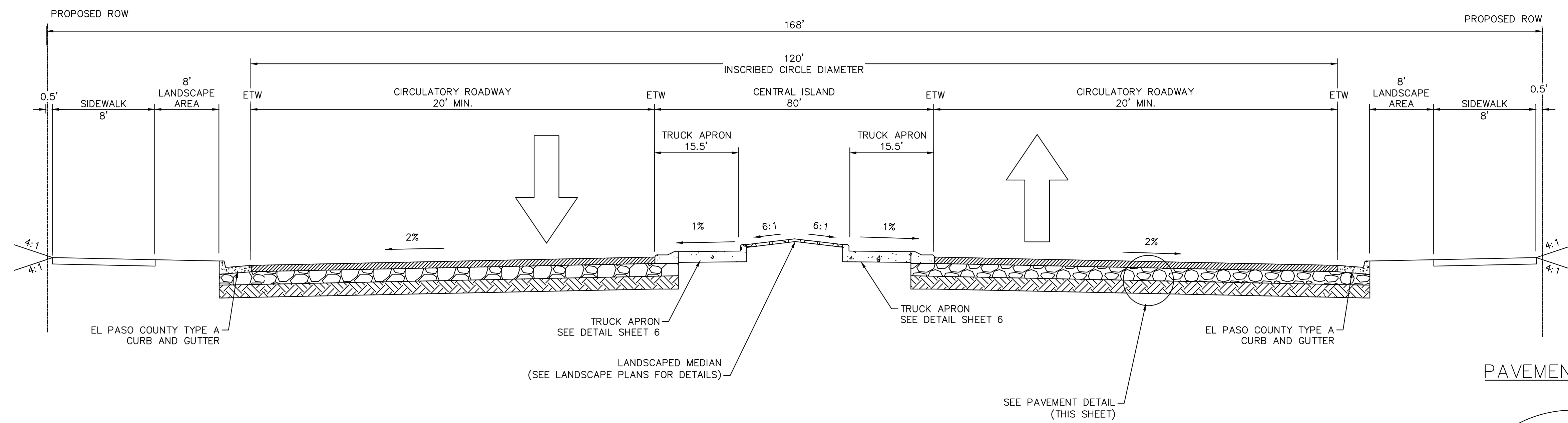
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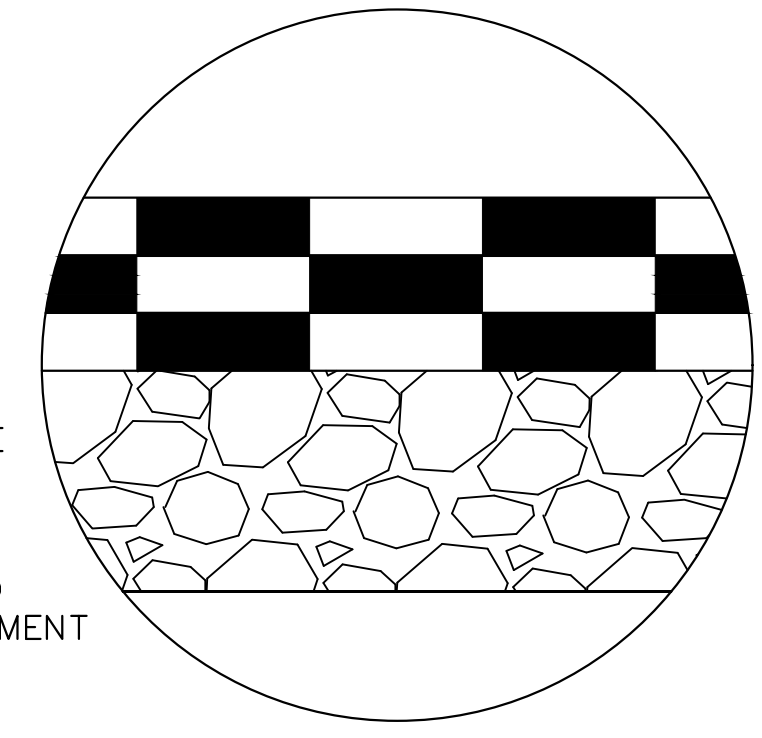


**EAST LEG TYPICAL SECTION APPROACH
(NORICE GROVE - PRIVATE ACCESS)**



CIRCULATORY ROADWAY TYPICAL SECTION

PAVEMENT DETAIL



4" OF HOT MIX ASPHALT
9" AGGREGATE BASE COURSE
(PAVEMENT THICKNESS INFO. FOR BID PURPOSES ONLY - REFERENCE PAVEMENT REPORT FOR ADDITIONAL INFO.)



CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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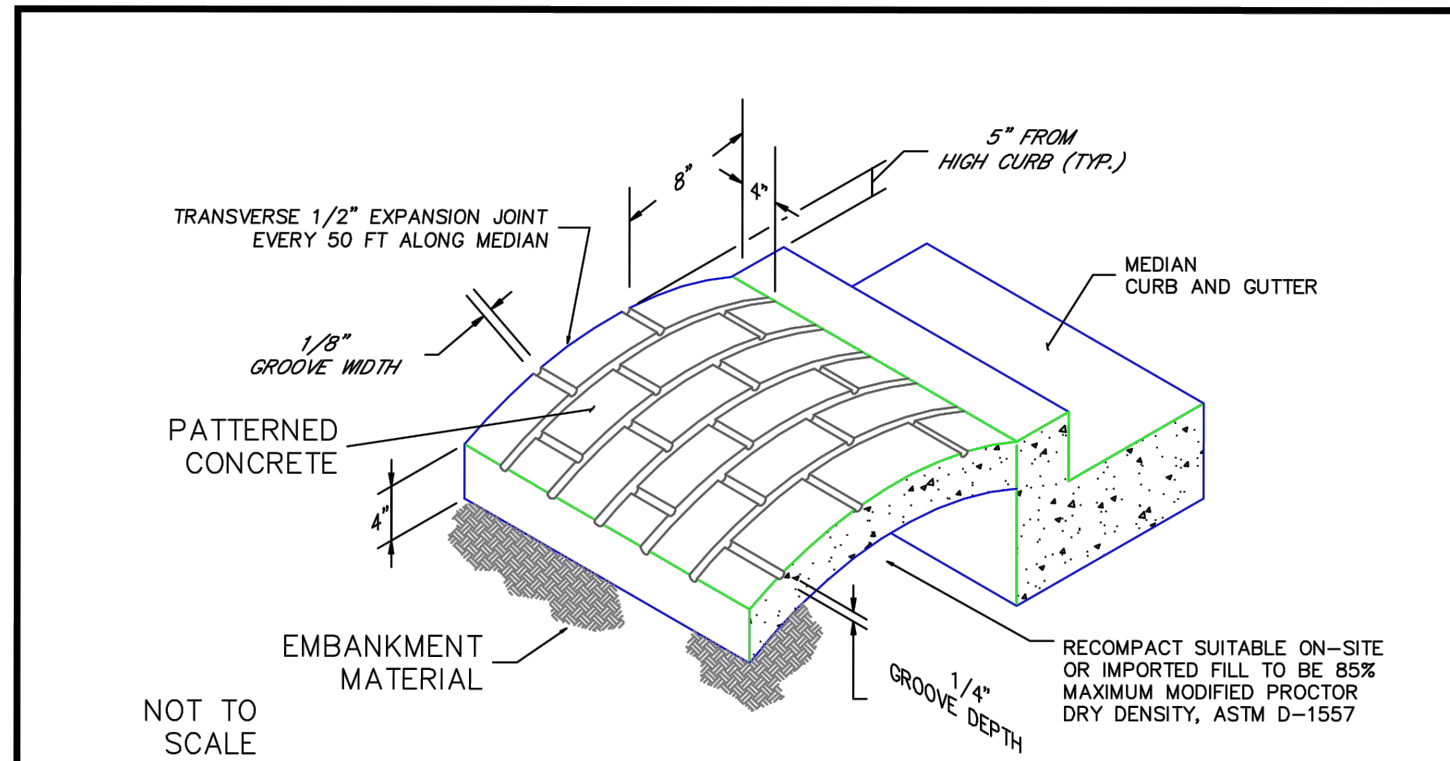
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ROADWAY CONSTRUCTION DOCUMENTS
TYPICAL SECTIONS



PROJECT NO.
096481004

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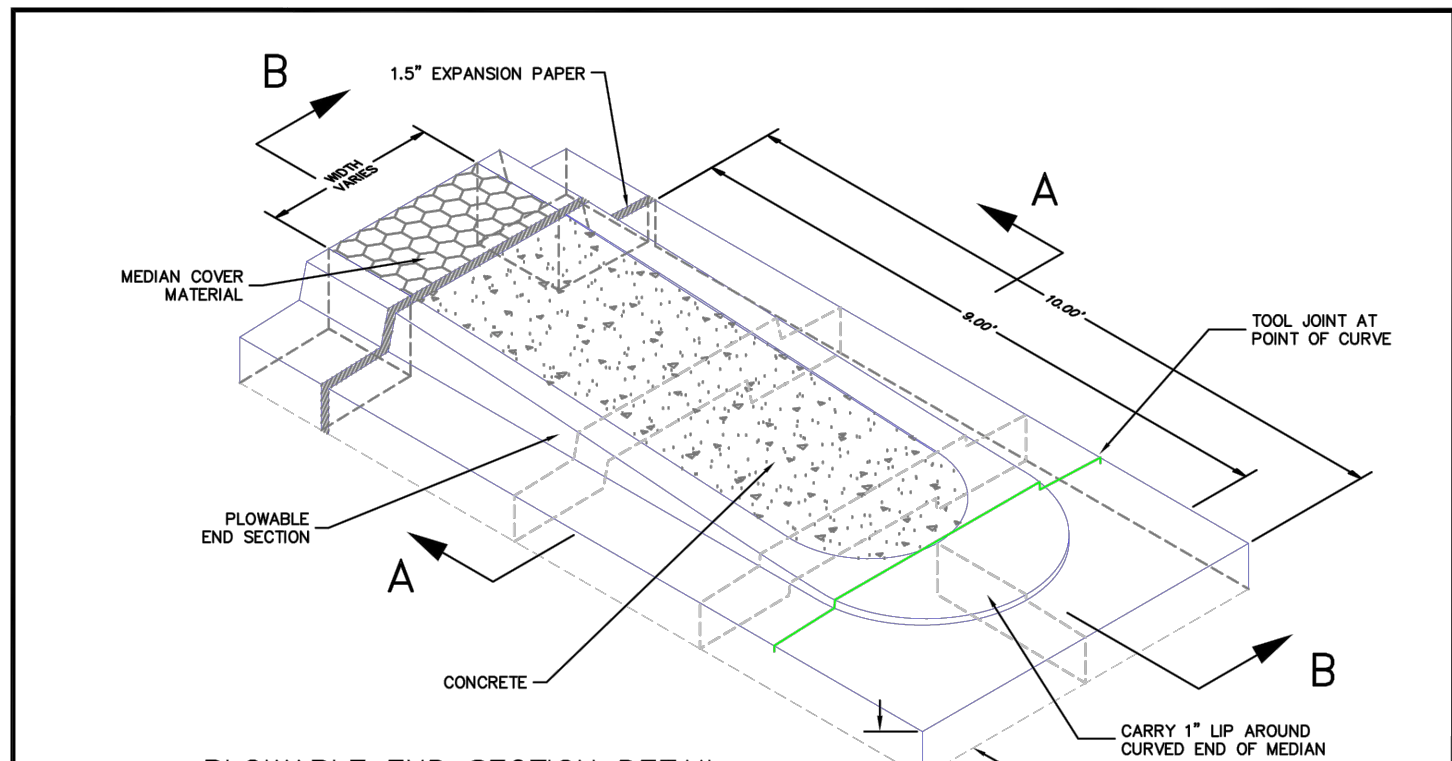


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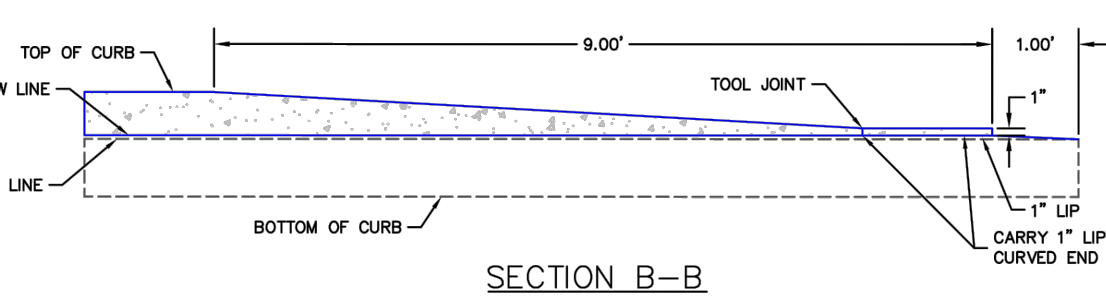
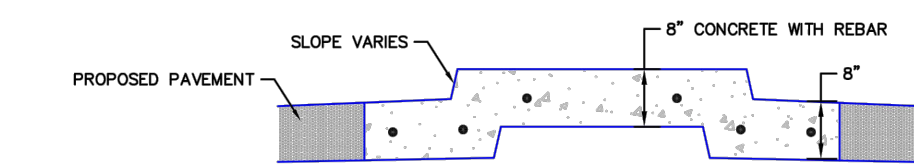
- A) The median paving shall be constructed with 4 inch thick, integrally colored concrete, embossed with a running bond 4" x 8" brick pattern as shown.
- B) Install 1/2" x 4" expansion material at median noses, fixed objects, and at transverse joints at 50 ft. intervals (maximum) along the median.
- C) The color additive shall be an approved commercially pure or synthetic mineral pigment, factory formulated and packaged in cubic yard dosage increments. The mixture shall be "Chromix" as manufactured by L.M. Scofield Company, "Davis Colors" as manufactured by Davis Color Company, Pigment No. 678, 5 lbs./sack, or an approved equal.
- D) Patterned concrete to be colored L.M. Scofield Company "Santa Barbara Brown, C-35", Davis Color Company, Pigment No. 678, 5 lbs./sack, or an approved equal.
- E) The Matching curing compound shall be a blend of waxes and pigments in a solvent emulsion base and conform to the requirements of ASTM C-309. The curing compound shall be "Lithocrome Colorwax" as manufactured by L.M. Scofield Company, Davis Color-Seal, as manufactured by Davis Color Company, or approved equal.
- F) The concrete mix design shall conform to the requirements of the color admixture manufacturer and shall meet CDOT Class B concrete requirements, unless otherwise approved.
- G) For weed control prior to median paving, apply a pre-emergent herbicide to median subgrade area per manufacturer's specifications for paving under Barrier 50 label (pbi Gordon). Trifluralin is labeled for use under asphalt under the Treflan 4EC label (Elanco).

SCALE: NOT TO SCALE

DATE APPROVED: 7/9/09	FILE NAME: SD_2-21	
DESIGNED BY: André P. Brackin	REVISION DATE: 1/18/11	



PLOWABLE END SECTION DETAIL

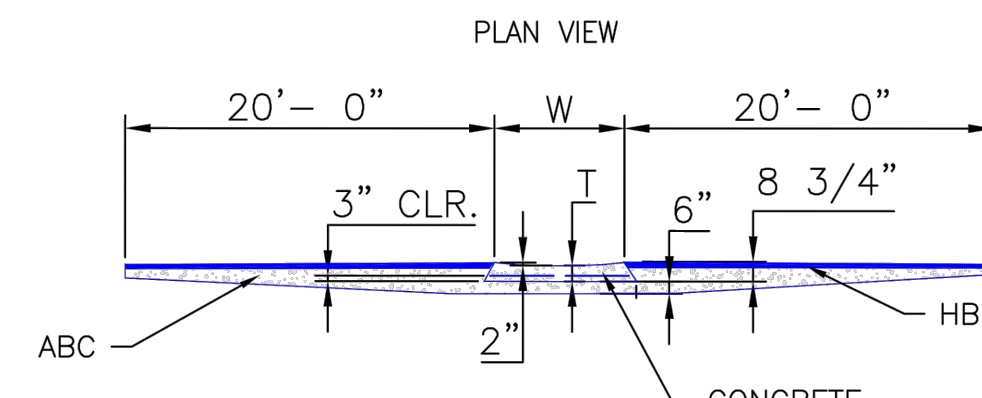
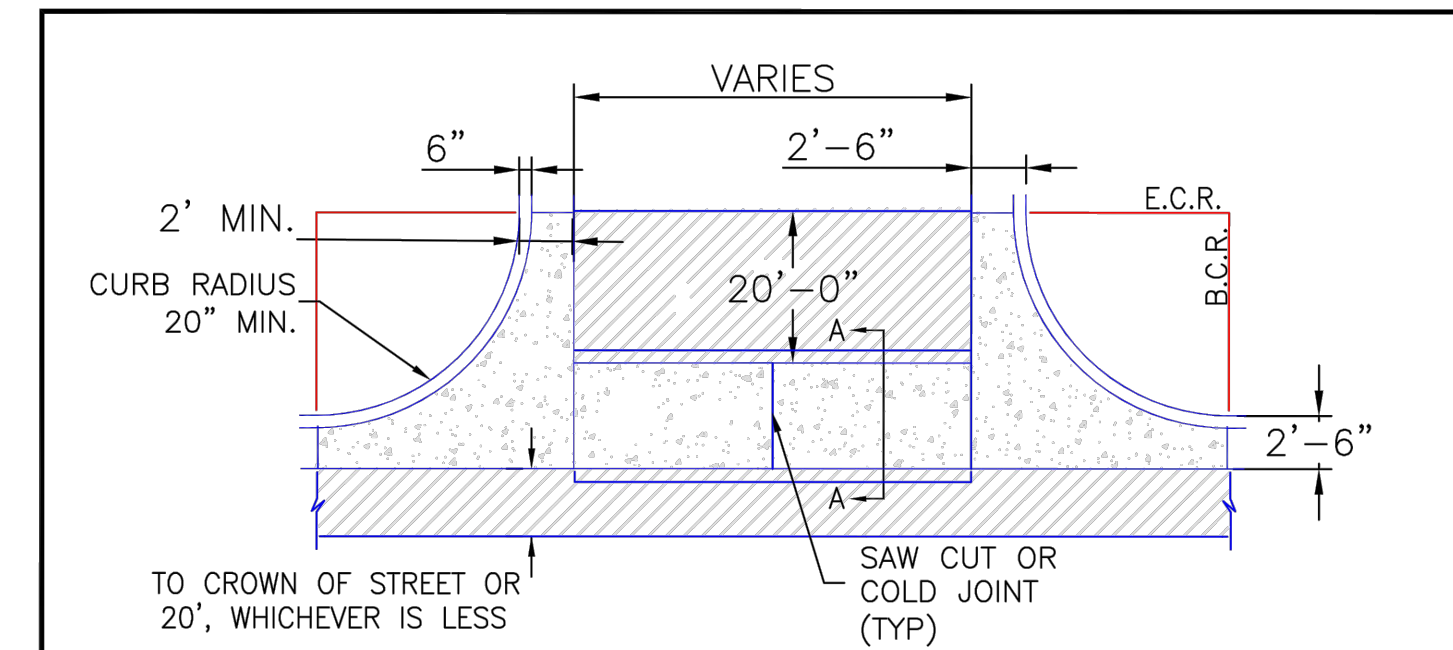


NOTES:

- 1. MEDIAN NOSE CONCRETE AND CURB & GUTTER SHALL BE PLACED MONOLITHIC WITH NON-COLORED CONCRETE REINFORCED #4 REBAR AT 18" E.W.
- 2. MEDIANS GREATER THAN 10' WIDE (BOC TO BOC) DO NOT REQUIRE MEDIAN NOSE.

SCALE: NOT TO SCALE

DATE APPROVED: 1/12/16	FILE NAME: SD_2-22	
DESIGNED BY: André P. Brackin	REVISION DATE: 1/12/16	



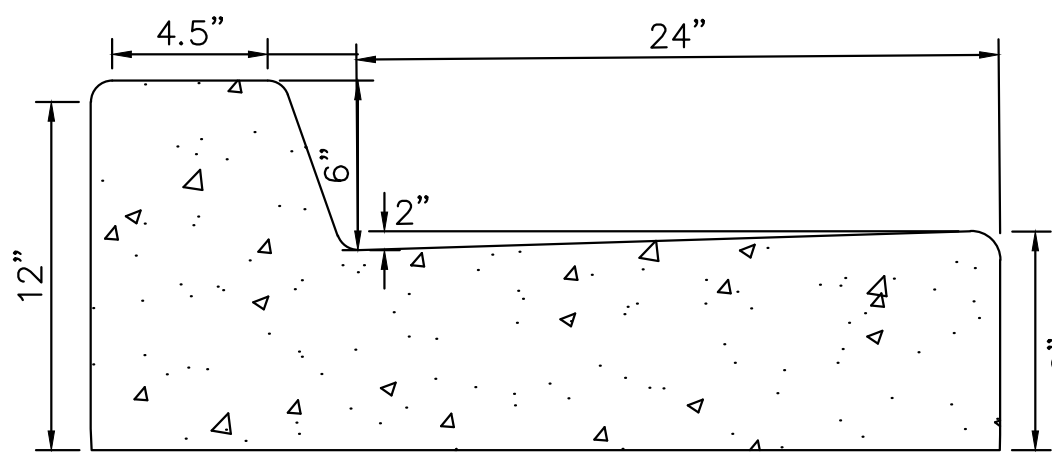
NOTES:

- 1. W - WIDTH SHALL BE 6' FOR LOCAL, 8' FOR COLLECTORS, AND 10' FOR ARTERIAL ROADS.
- 2. T - SQUARED-OFF RETURN TO BE POURED MONOLITHICALLY, 8" PCC FOR LOCAL ROADS, 9" FOR COLLECTORS WITH 6x6 - 4.4 W.W.F. OR #4 REINFORCING BAR @ 18" EACH WAY.
- 3. [Hatched Area] = 3" MINIMUM ASPHALT DEPTH (2 LIFTS).
- 4. DESIGN TO SPECIFY ELEVATIONS AT PI AND PCR.

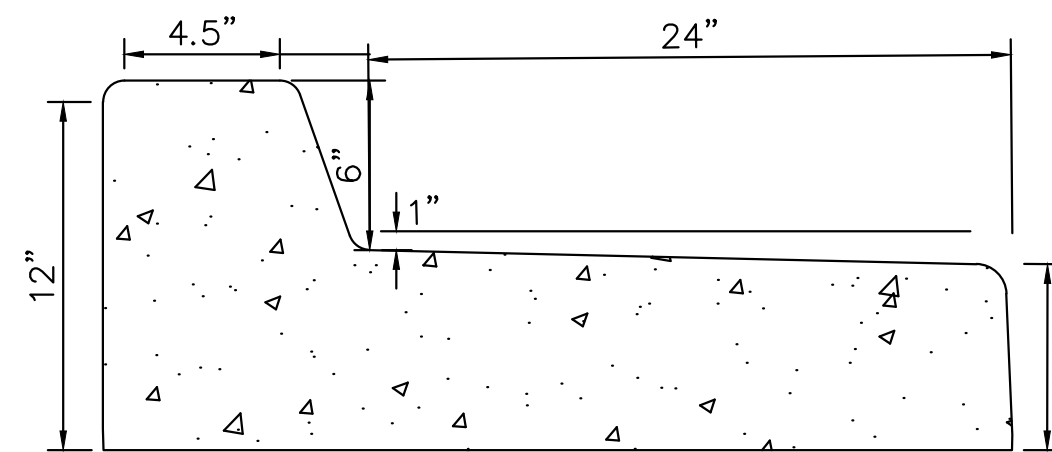
SCALE: NOT TO SCALE

DATE APPROVED: 8/11/11	FILE NAME: SD_2-26	
DESIGNED BY: André P. Brackin	REVISION DATE: 12/8/15	

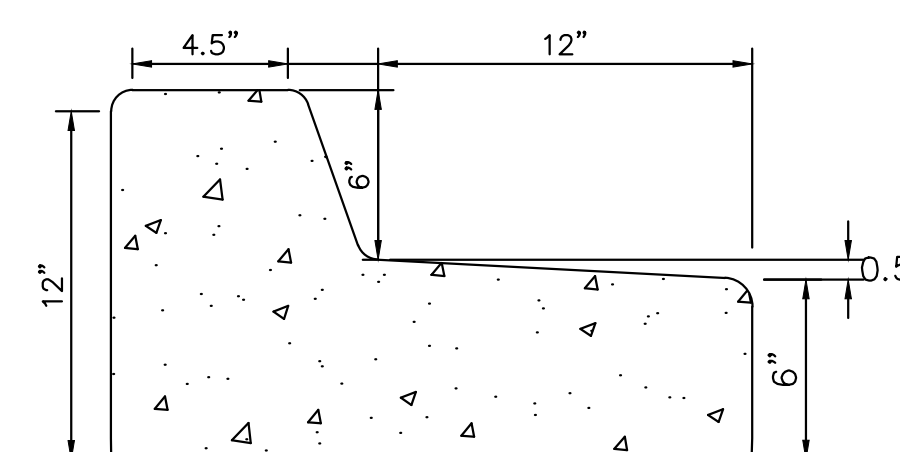
LEGEND FOR RADII	
A = 1/8"	TO 1/4"
B = 1 1/2"	
C = 1 1/2"	TO 2"



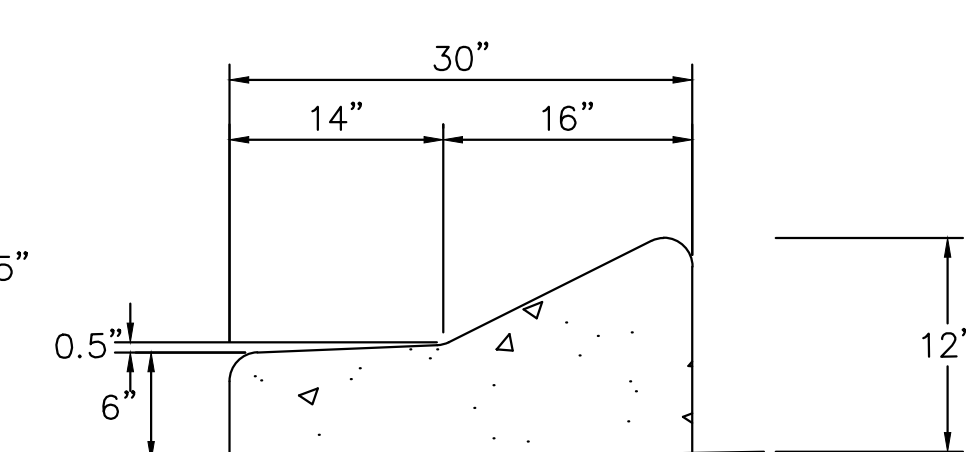
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(N.T.S)



EPC CURB & GUTTER TYPE A (SPILL)
(N.T.S)

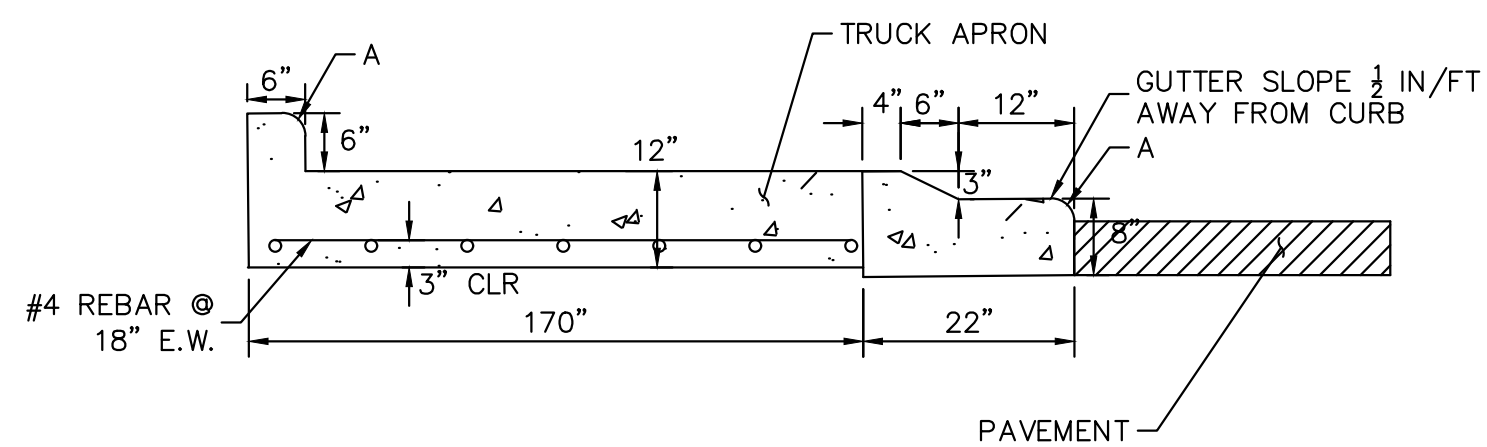


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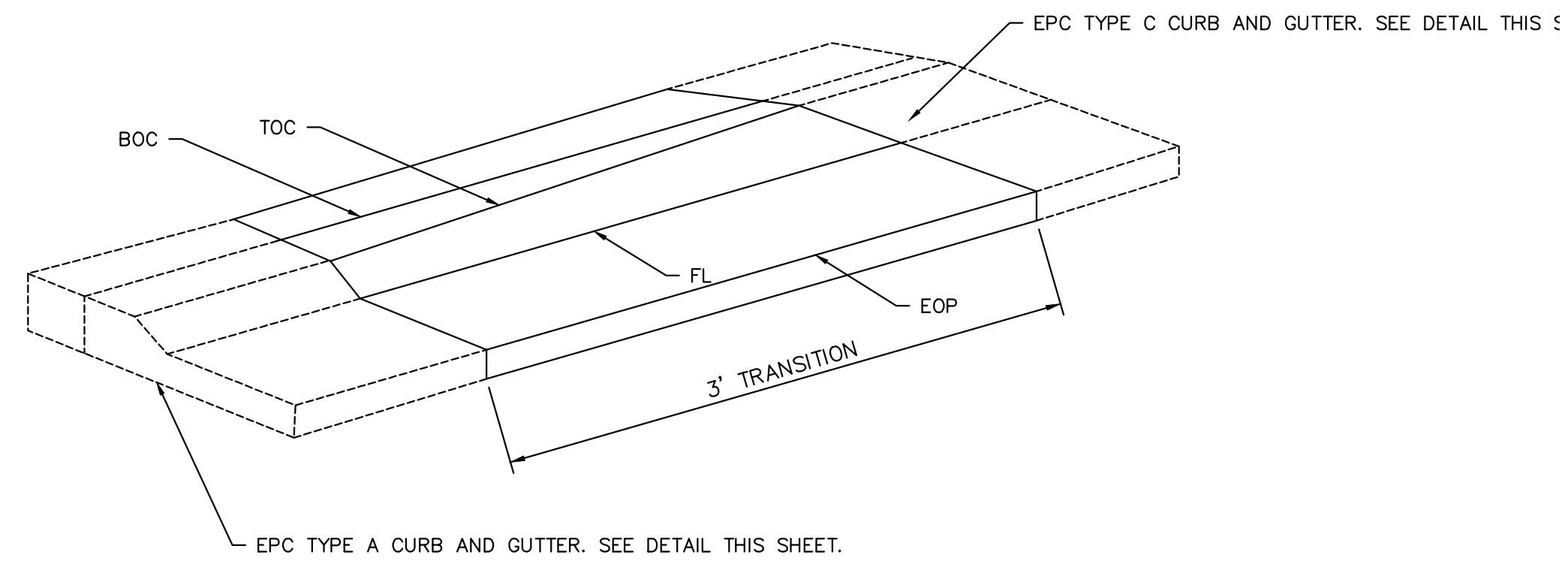


EPC CURB & GUTTER TYPE C
(N.T.S)

TRUCK APRON DETAIL
(N.T.S)



CURB TRANSITION DETAIL
(N.T.S)



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NO.	REVISION	BY	DATE	APPR.

Kimley»Horn
2022 KIMLEY-HORN AND ASSOCIATES, INC.
4582 South Ulster Street, Suite 1500
Denver, CO 80237 (303) 228-2300

DESIGNED BY: SMH
DRAWN BY: TL
CHECKED BY: CEH
DATE: 10/20/2022

AKERS DR & ACCESS ROAD ROUNDABOUT
EL PASO COUNTY, COLORADO
ROADWAY CONSTRUCTION DOCUMENTS
ROADWAY DETAILS



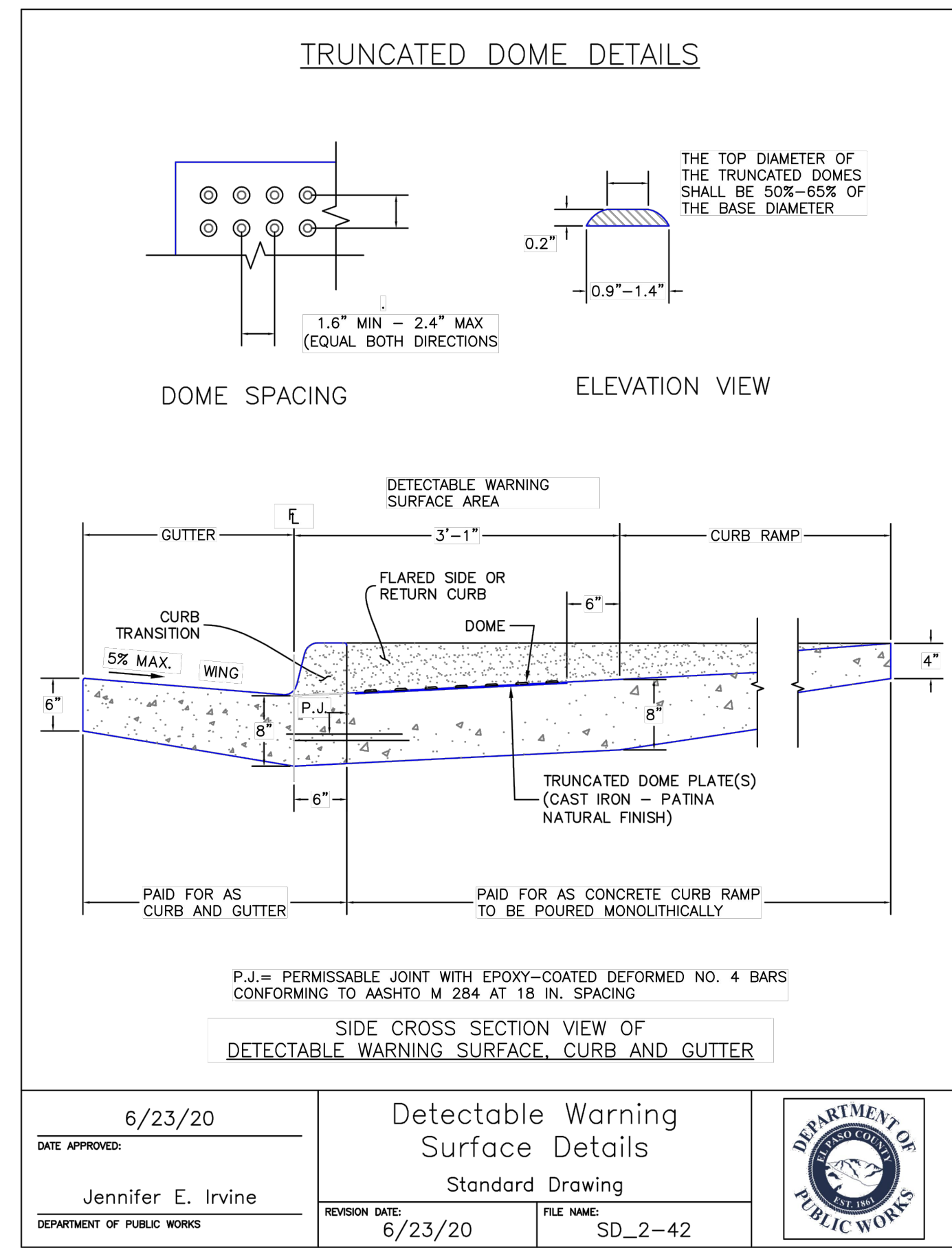
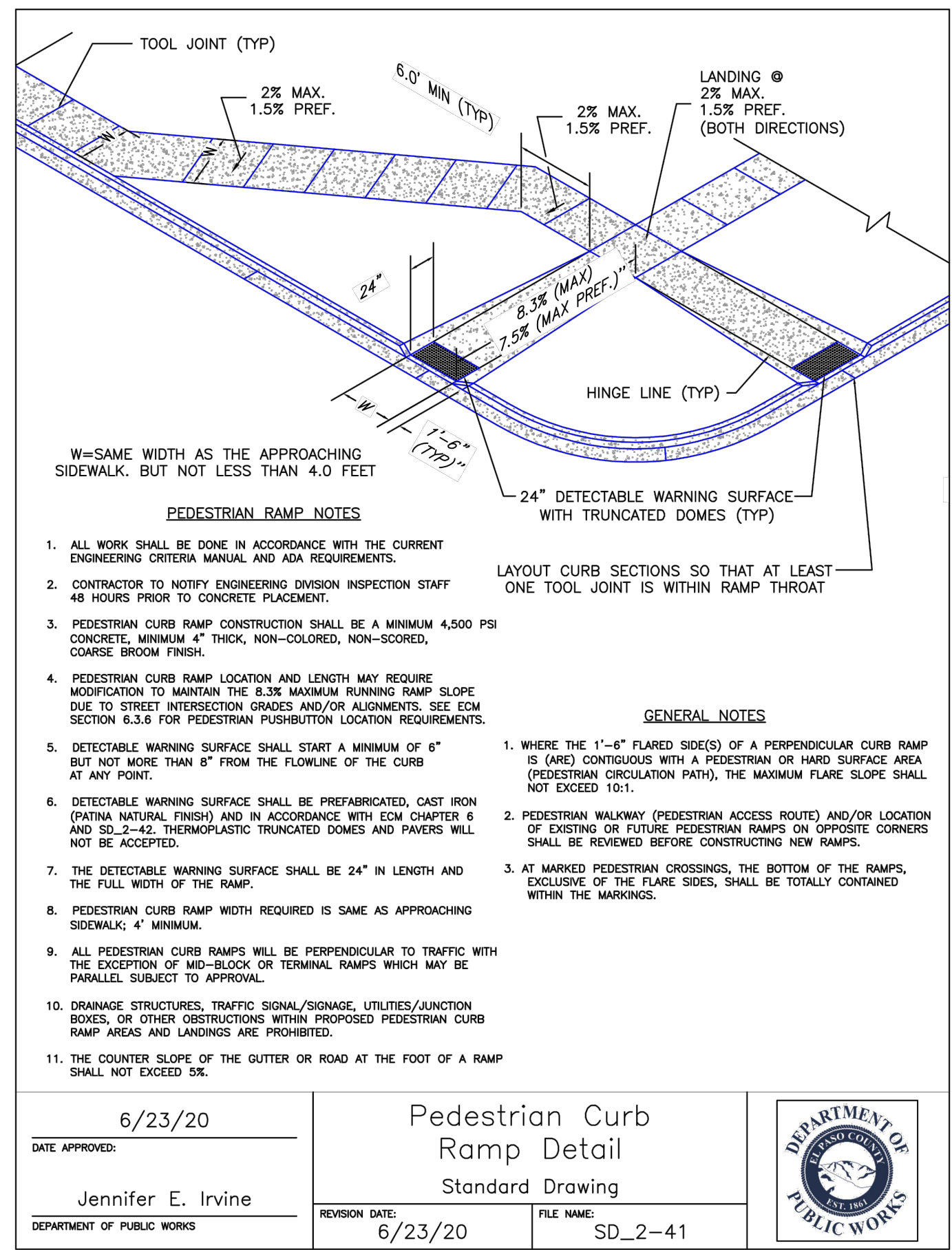
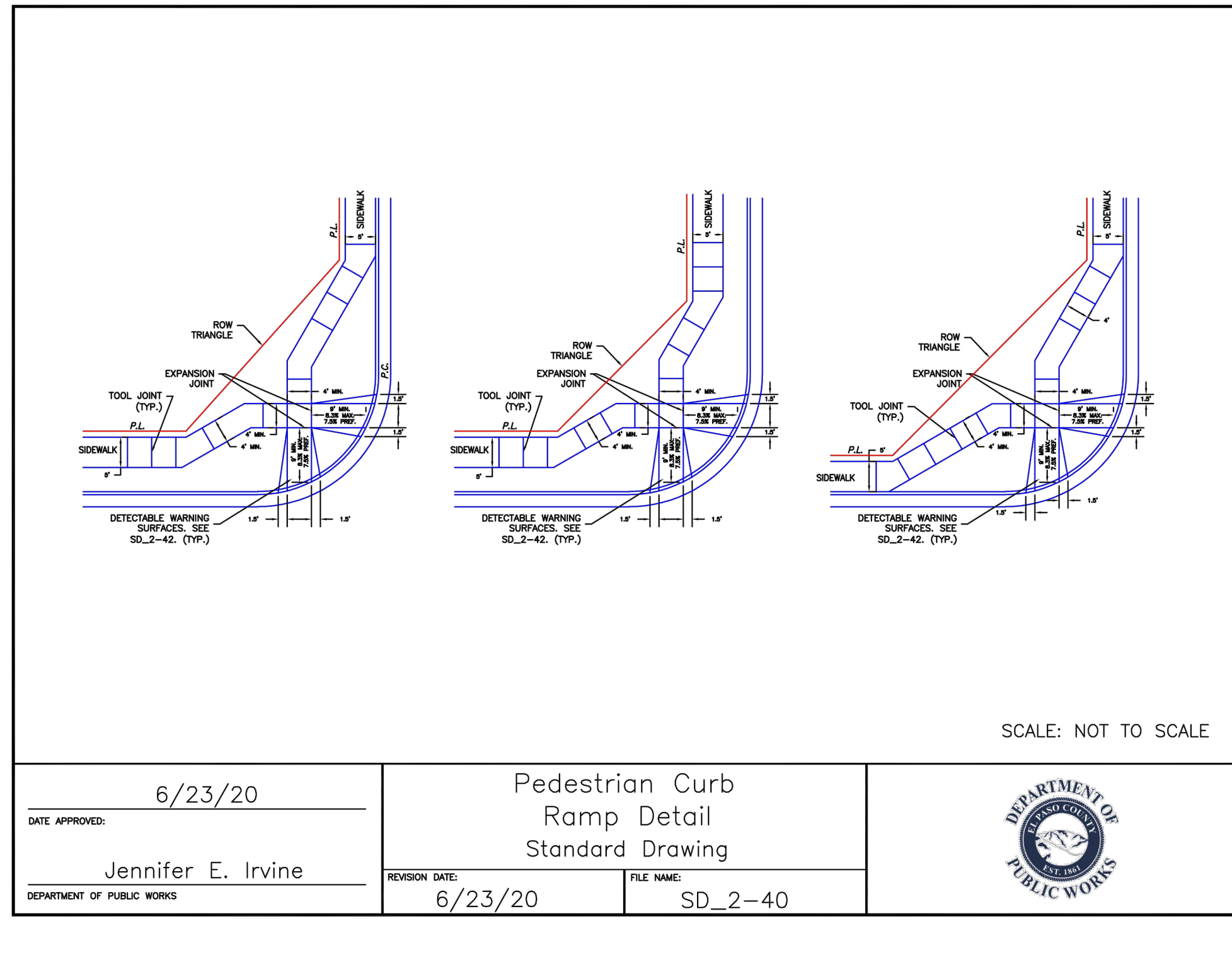
PROJECT NO.
096481004

SHEET

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CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES



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2022 KIMLEY-HORN AND ASSOCIATES, INC.
4882 South Ulster Street, Suite 1500
Denver, CO 80237 (303) 228-2300

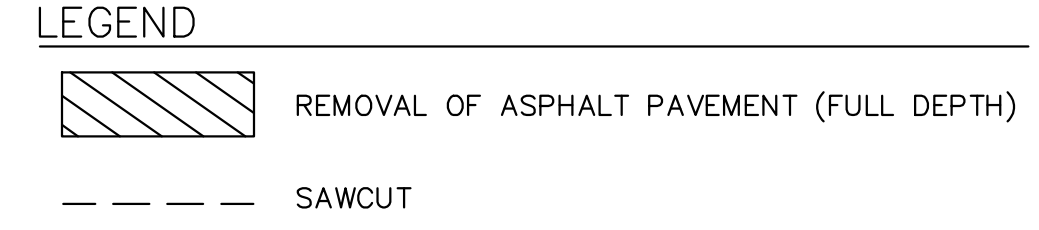
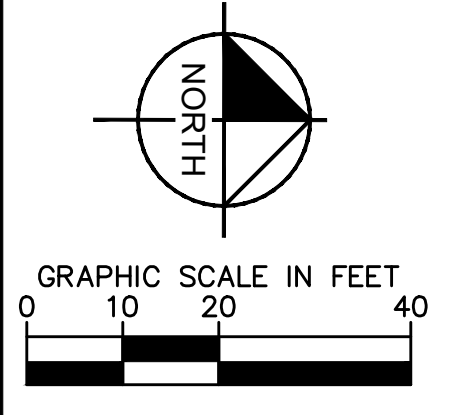
DESIGNED BY: SMH
DRAWN BY: TL
CHECKED BY: CEH
DATE: 10/20/2022

AKERS DR & ACCESS ROAD ROUNDABOUT
EL PASO COUNTY, COLORADO
ROADWAY CONSTRUCTION DOCUMENTS
ROADWAY DETAILS

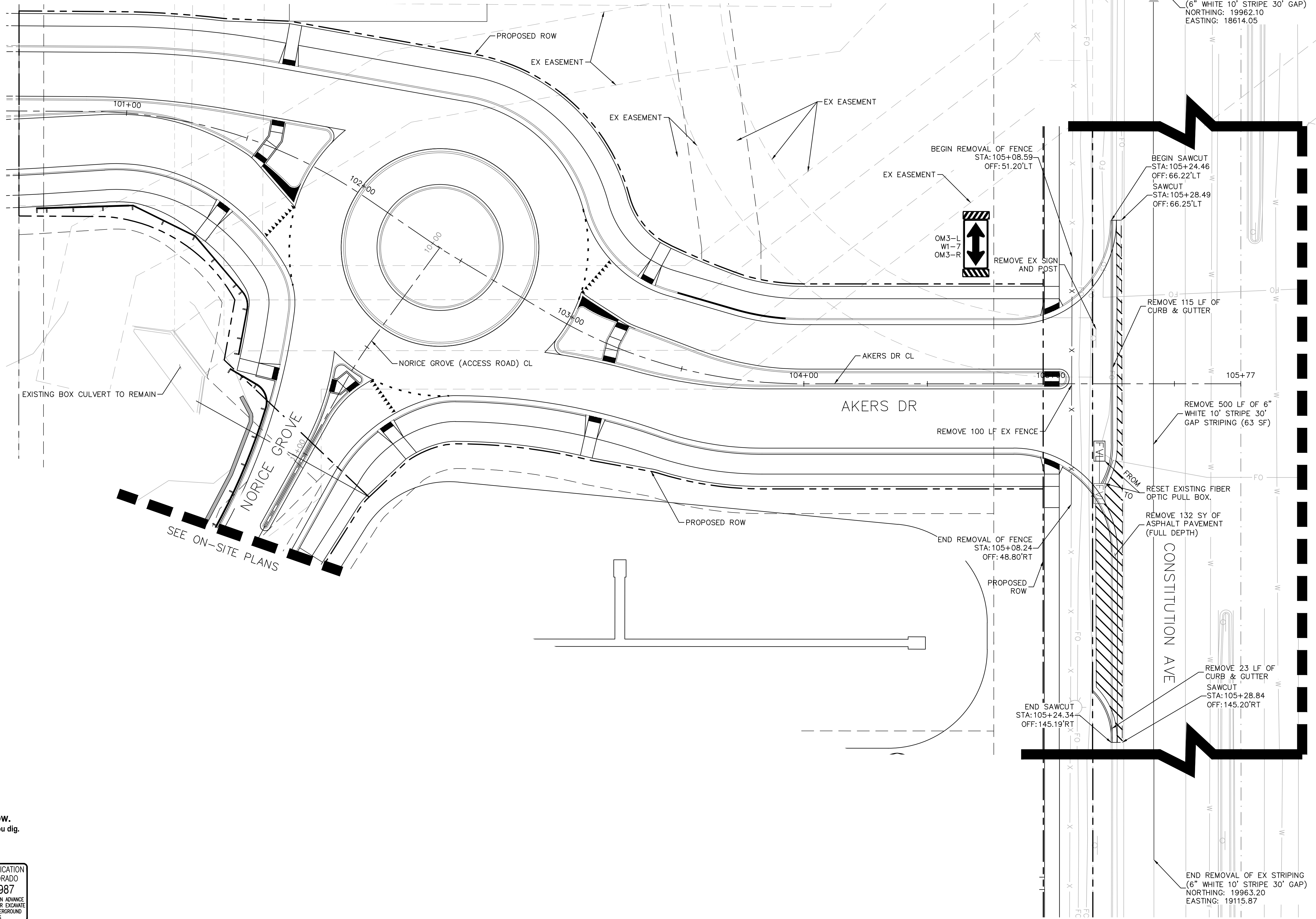


PROJECT NO.
096481004
SHEET

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- NOTES**
1. SEE ON-SITE PLANS FOR ADDITIONAL REMOVAL/RESET INFORMATION.
 2. PAVEMENT MARKINGS SHALL BE REMOVED BY WATER BLASTING.
 3. CONTRACTOR SHALL CONFIRM ADEQUATE SLACK EXISTS IN FIBER OPTIC PULL BOX PRIOR TO REMOVAL. CONTRACTOR SHALL PROTECT EXISTING SPLICES/EQUIPMENT IN REMOVED FIBER OPTIC PULL BOX UNTIL PLACED INTO PROPOSED FIBER OPTIC PULL BOX.



CALL UTILITY NOTIFICATION
CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES

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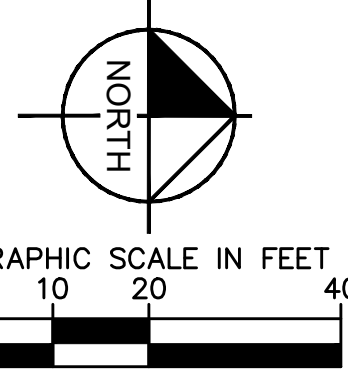
DESIGNED BY: SMH
DRAWN BY: TL
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DATE: 10/20/2022

**AKERS DR & ACCESS ROAD ROUNDABOUT
EL PASO COUNTY, COLORADO
ROADWAY CONSTRUCTION DOCUMENTS
REMOVAL AND RESET PLAN**



PROJECT NO.
096481004

SHEET

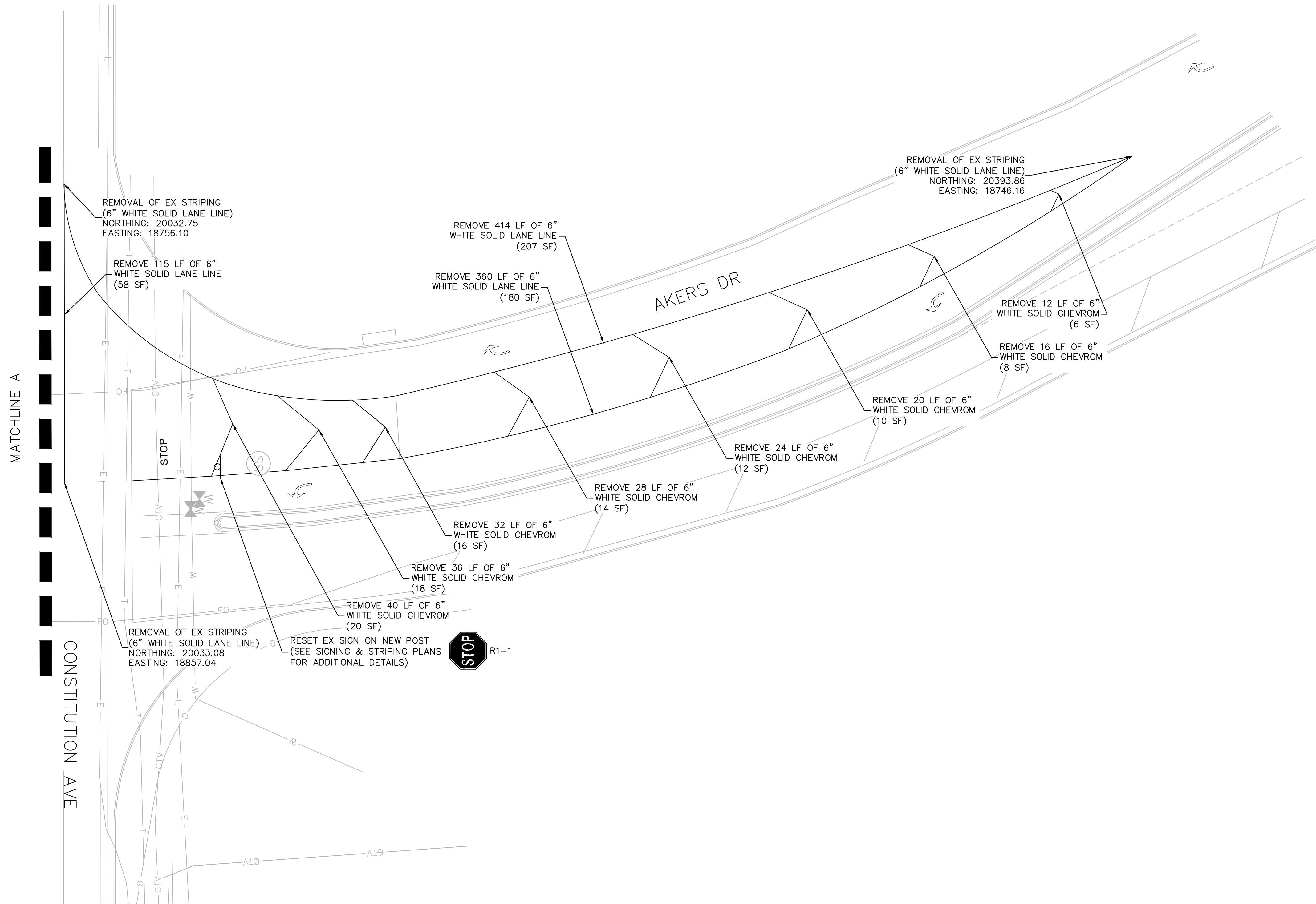


LEGEND

- REMOVAL OF ASPHALT PAVEMENT (FULL DEPTH)
- SAWCUT

NOTES

1. SEE ON-SITE PLANS FOR ADDITIONAL REMOVAL/RESET INFORMATION.
2. PAVEMENT MARKINGS SHALL BE REMOVED BY WATER BLASTING.



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 4582 South Ulster Street, Suite 1500
 Denver, CO 80237 (303) 228-2300

DESIGNED BY: SMH
 DRAWN BY: TL
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**AKERS DR & ACCESS ROAD ROUNDABOUT
 EL PASO COUNTY, COLORADO
 ROADWAY CONSTRUCTION DOCUMENTS
 REMOVAL AND RESET PLAN**

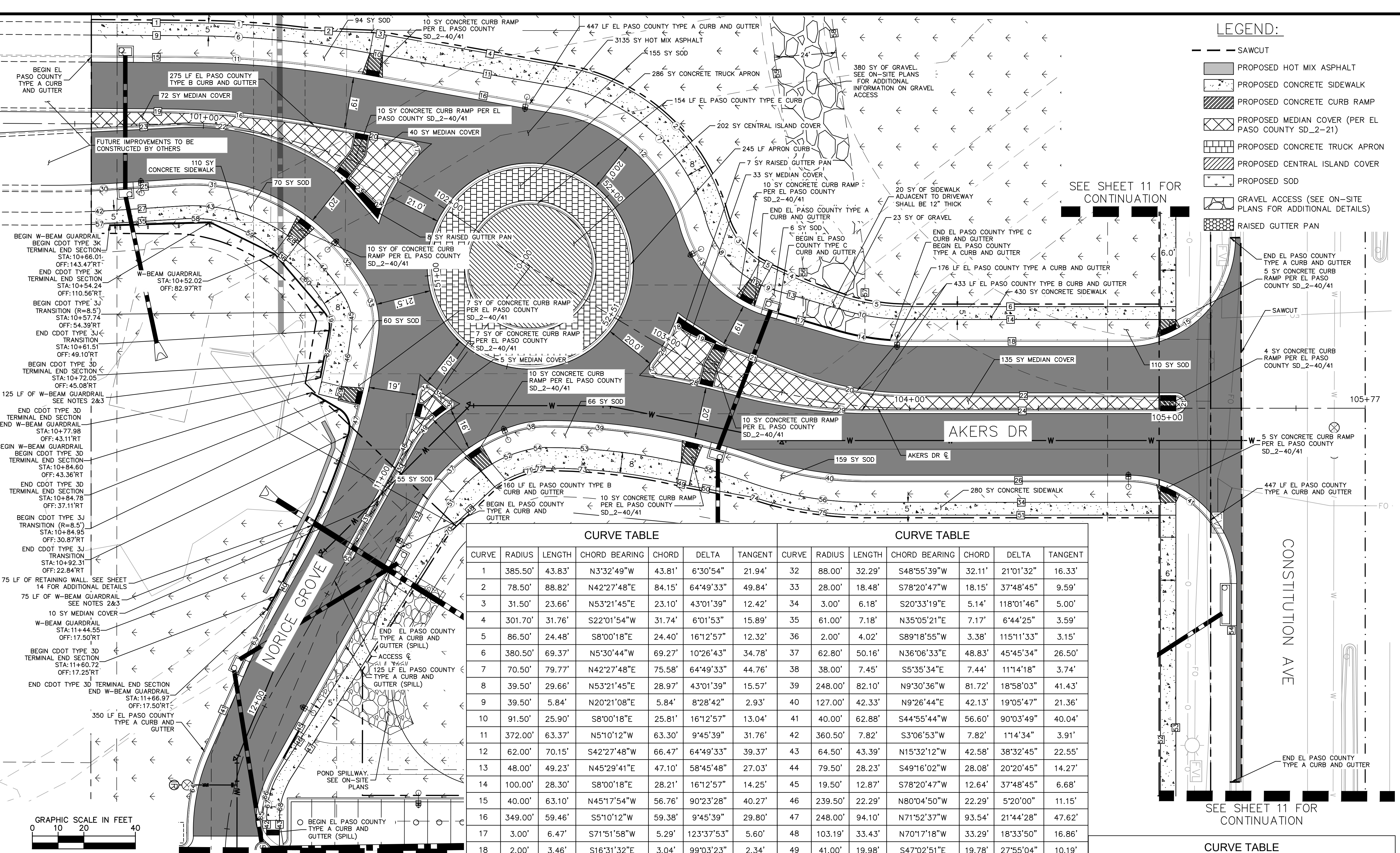


PROJECT NO.
096481004

SHEET

9

LINE	LENGTH	BEARING
1	39.21	N0°17'22.43"E
2	26.62	N2°14'16.02"E
3	5.00	N10°03'01.81"E
4	70.86	N10°03'01.81"E
5	5.00	S28°13'12.01"W
6	103.56	N0°06'09.96"W
7	161.47	N89°53'50.00"E
8	158.83	N89°53'50.00"E
9	39.18	N0°17'22.43"E
10	5.05	N10°03'01.81"E
11	70.86	N10°03'01.81"E
12	4.98	N28°14'14.24"E
13	27.43	N16°06'46.96"E
14	103.56	N0°06'09.96"W
15	39.13	N0°17'22.43"E
16	80.40	N10°03'01.81"E
17	27.43	N16°06'46.96"E
18	84.66	N0°06'09.96"W
19	27.37	N0°17'22.43"E
20	38.08	S10°03'01.81"W
21	39.40	S20°35'04.09"W
22	103.56	N0°06'09.96"W
23	33.27	S3°01'17.21"E
24	118.60	N0°06'09.96"W
25	27.49	S3°44'10.21"E
26	101.89	N0°06'09.96"W
27	27.49	S3°44'10.21"E
28	5.05	N36°58'06.32"E
29	5.00	S76°13'03.94"E
30	49.75	S61°00'22.81"E
31	35.88	S61°00'22.81"E
32	119.74	S61°00'22.81"E
33	5.00	N13°13'36.86"E
34	120.32	N0°06'09.96"W
35	27.49	S3°44'10.21"E
36	4.71	N36°52'07.11"E
37	750.62	S89°53'50.00"W
38	4.57	N50°16'01.52"W
39	6.11	S42°55'48.86"W
40	23.66	S61°00'22.81"E
41	35.49	S66°16'18.65"E
42	7.33	N89°55'54.53"E
43	11.33	N89°55'54.53"E
44	10.89	S89°54'13.41"W
45	119.74	S61°00'22.81"E
46	119.14	S57°39'37.99"E
47	111.71	S57°40'47.43"E
48	21.36	S43°19'23.32"E
49	4.92	N13°14'14.06"E
50	24.45	N10°13'46.93"E
51	120.32	N0°06'09.96"W
52	226.55	N89°53'50.00"E
53	981.98	N89°53'50.00"E
54	77.10	S89°57'38.64"W



LEGEND:

- SAWCUT
- PROPOSED HOT MIX ASPHALT
- PROPOSED CONCRETE SIDEWALK
- PROPOSED CONCRETE CURB RAMP
- PROPOSED MEDIAN COVER (PER EL PASO COUNTY SD_2-21)
- PROPOSED CONCRETE TRUCK APRON
- PROPOSED CENTRAL ISLAND COVER
- PROPOSED SOD
- GRAVEL ACCESS (SEE ON-SITE PLANS FOR ADDITIONAL DETAILS)
- RAISED GUTTER PAN

CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT	CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
1	385.50'	43.83'	N3°32'49"W	43.81'	6°30'54"	21.94'	32	88.00'	32.29'	S48°53'39"W	32.11'	21°01'32"	16.33'
2	78.50'	88.82'	N42°27'48"E	84.15'	64°49'33"	49.84'	33	28.00'	18.48'	S78°20'47"W	18.15'	37°48'45"	9.59'
3	31.50'	23.66'	N53°21'45"E	23.10'	43°01'39"	12.42'	34	3.00'	6.18'	S20°33'19"E	5.14'	118°01'46"	5.00'
4	301.70'	31.76'	S22°01'54"W	31.74'	6°01'53"	15.89'	35	61.00'	7.18'	N35°05'21"E	7.17'	6°44'25"	3.59'
5	86.50'	24.48'	S8°00'18"E	24.40'	16°12'57"	12.32'	36	2.00'	4.02'	S89°18'55"W	3.38'	115°11'33"	3.15'
6	380.50'	69.37'	N5°30'44"W	69.27'	10°26'43"	34.78'	37	62.80'	50.16'	N36°06'33"E	48.83'	45°45'34"	26.50'
7	70.50'	79.77'	N42°27'48"E	75.58'	64°49'33"	44.76'	38	38.00'	7.45'	S5°35'34"E	7.44'	11°14'18"	3.74'
8	39.50'	29.66'	N53°21'45"E	28.97'	43°01'39"	15.57'	39	248.00'	82.10'	N9°30'36"W	81.72'	18°58'03"	41.43'
9	39.50'	5.84'	N20°21'08"E	5.84'	8°28'42"	2.93'	40	127.00'	42.33'	N9°26'44"E	42.13'	19°05'47"	21.36'
10	91.50'	25.90'	S8°00'18"E	25.81'	16°12'57"	13.04'	41	40.00'	62.88'	S44°55'44"W	56.60'	90°03'49"	40.04'
11	372.00'	63.37'	N5°10'12"W	63.30'	9°45'39"	31.76'	42	360.50'	7.82'	S3°06'53"W	7.82'	11°4'34"	3.91'
12	62.00'	70.15'	S42°27'48"W	66.47'	64°49'33"	39.37'	43	64.50'	43.39'	N15°32'12"W	42.58'	38°32'45"	22.55'
13	48.00'	49.23'	N45°29'41"E	47.10'	58°45'48"	27.03'	44	79.50'	28.23'	S49°16'02"W	28.08'	20°20'45"	14.27'
14	100.00'	28.30'	S8°00'18"E	28.21'	16°12'57"	14.25'	45	19.50'	12.87'	S78°20'47"W	12.64'	37°48'45"	6.68'
15	40.00'	63.10'	N45°17'54"W	56.76'	90°23'28"	40.27'	46	239.50'	22.29'	N80°04'50"W	22.29'	5°20'00"	11.15'
16	349.00'	59.46'	S5°10'12"W	59.38'	9°45'39"	29.80'	47	248.00'	94.10'	N71°52'37"W	93.54'	21°44'28"	47.62'
17	3.00'	6.47'	S71°51'58"W	5.29'	123°37'53"	5.60'	48	103.19'	33.43'	N70°17'18"W	33.29'	18°33'50"	16.86'
18	2.00'	3.46'	S16°31'32"E	3.04'	99°03'23"	2.34'	49	41.00'	19.98'	S47°02'51"E	19.78'	27°55'04"	10.19'
19	46.00'	9.97'	N26°47'37"E	9.95'	12°25'05"	5.00'	50	1.00'	3.14'	N28°59'37"E	2.00'	180°00'00"	INFINITY
20	121.00'	43.69'	S10°14'27"E	43.45'	20°41'14"	22.08'	51	49.50'	21.48'	N48°34'29"E	21.31'	24°51'48"	10.91'
21	3.00'	9.42'	N90°00'00"W	6.00'	180°00'00"	INFINITY	52	49.50'	21.54'	N23°40'39"E	21.37'	24°55'52"	10.94'
22	96.00'	70.62'	N17°20'21"W	69.04'	42°09'03"	37.00'	53	239.50'	52.68'	N6°19'39"W	52.57'	12°36'09"	26.45'
23	111.00'	13.58'	S41°55'12"W	13.57'	7°00'39"	6.80'	54	29.50'	5.79'	S5°35'34"E	5.78'	11°14'18"	2.90'
24	3.00'	5.81'	N10°00'29"W	4.94'	110°52'03"	4.35'	55	239.50'	21.61'	N16°24'34"W	21.60'	5°10'07"	10.81'
25	62.00'	20.69'	S55°52'48"E	20.60'	19°07'25"	10.44'	56	135.50'	45.16'	N9°26'44"E	44.95'	19°05'47"	22.79'
26	61.00'	15.07'	N58°58'36"W	15.03'	14°09'15"	7.57'	57	365.50'	8.14'	S3°05'53"W	8.14'	1°16'34"	4.07'
27	3.00'	6.22'	N68°40'14"E	5.17'	118°51'34"	5.08'	58	59.50'	11.13'	N1°37'21"W	11.11'	10°43'03"	5.58'
28	271.00'	29.51'	N12°21'37"W	29.50'	6°14'21"	14.77'	59	53.45'	28.06'	S26°46'06"W	27.74'	30°04'46"	14.36'
29	199.00'	54.12'	N7°41'19"E	53.96'	15°34'58"	27.23'	60	71.50'	25.39'	S49°16'02"W	25.26'	20°20'45"	12.83'
30	352.00'	7.28'	S3°08'39"W	7.28'	1°11'03"	3.64'	61	11.50'	7.59'	S78°20'47"W	7.45'	37°48'45"	3.94'
31	73.00'	53.70'	N17°20'21"W	52.50'	42°09'03"	28.13'	62	231.50'	26.38'	N79°28'57"W	26.37'	6°31'47"	13.21'

CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
63	252.00'	23.16'	S63°38'21"E	23.15'	5°15'56"	11.59'
64	76.00'	34.69'	N79°20'52"E	34.39'	26°09'06"	17.65'
65	10.00'	7.18'	S76°21'29"E	7.02'	41°07'11"	3.75'
66	48.00'	18.49'	N72°02'39"E	18.38'	22°04'33"	9.36'
67	33.79'	18.62'	N73°21'46"W	18.38'	31°34'06"	9.55'
68	25.00'	8.75'	N80°02'35"E	8.70'	20°03'00"	4.42'
69	25.00'	6.26'	S50°30'05"E	6.25'	14°21'24"	3.15'
70	41.50'	17.46'	N23°15'57"E	17.33'	24°06'28"	8.86'
71	21.50'	4.22'	S5°35'34"E	4.21'	11°14'18"	2.12'
72	231.50'	50.92'	N6°19'39"W	50.82'	12°36'09"	25.56'
73	25.00'	3.03'	N13°42'11"E	3.03'	6°56'49"	1.52'
74	140.50'	42.37'	N8°32'13"E	42.21'	17°16'46"	21.35'

NOTES:

- LINE AND CURVE DATA PROVIDED FOR CURB IS AT THE FLOWLINE OF PROPOSED CURB.
- GUARDRAIL TO BE INSTALLED WITH 7' POST PER RESTRICTIVE ROADSIDE INSTALLATION CRITERIA PER CDOT M-606-1.
- ALONG THE ACCESS DRIVE, THE FACE OF GUARDRAIL SHALL BE PARALLEL TO THE FLOWLINE OF THE CURB, AND THE TOP OF GUARDRAIL SHALL BE 27" HIGHER THAN THE FLOWLINE PER URBAN ROADSIDE INSTALLATION WITH CURB & GUTTER CRITERIA PER CDOT M-606-1.
- SEE ON-SITE PLANS FOR ADDITIONAL INFORMATION ON SIDEWALK ALONG CONSTITUTION AVE.



DESIGNED BY: SMH
DRAWN BY: TL
CHECKED BY: CEH
DATE: 10/20/2022

AKERS DR & ACCESS ROAD ROUNDABOUT
EL PASO COUNTY, COLORADO
ROADWAY CONSTRUCTION DOCUMENTS
ROADWAY PLAN

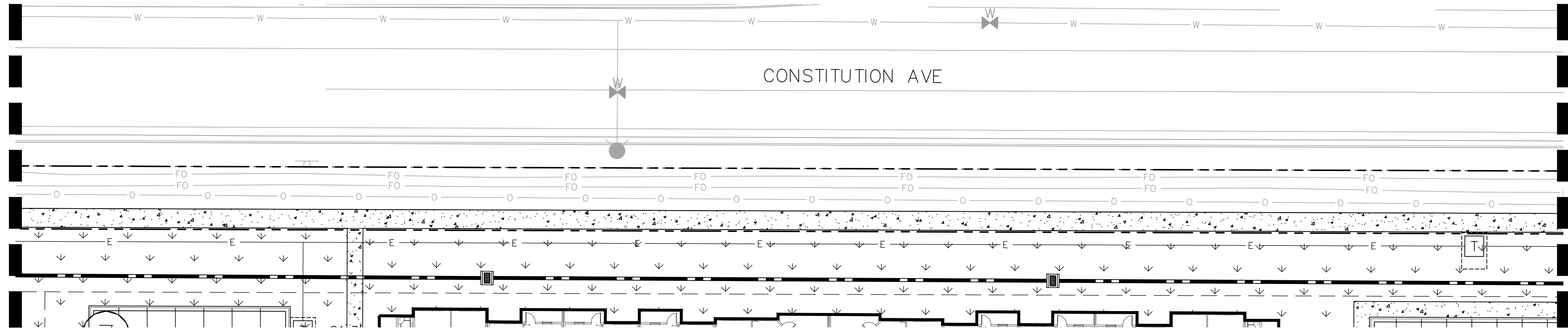


PROJECT NO.
096481004
SHEET
10

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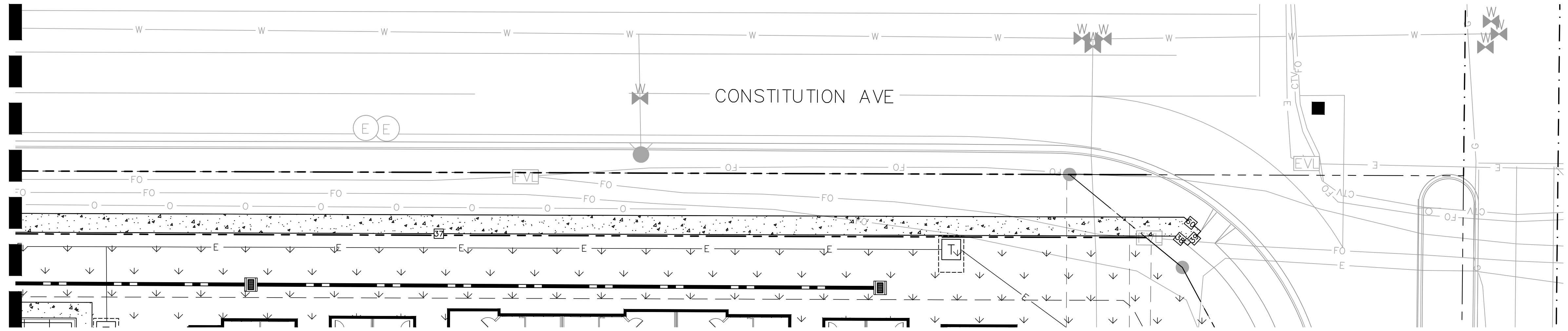
LINE TABLE		
LINE	LENGTH	BEARING
55	125.93	S82°12'23.98"W
56	4.49	S89°53'50.00"W
57	14.36	N89°53'50.00"E
58	125.93	N82°12'23.98"E
59	9.11	N89°53'50.00"E
60	6.95	S50°16'01.52"E

SEE SHEET 10 FOR CONTINUATION

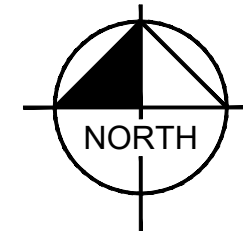
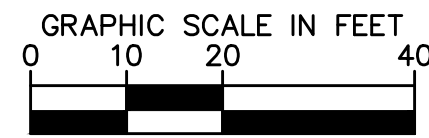
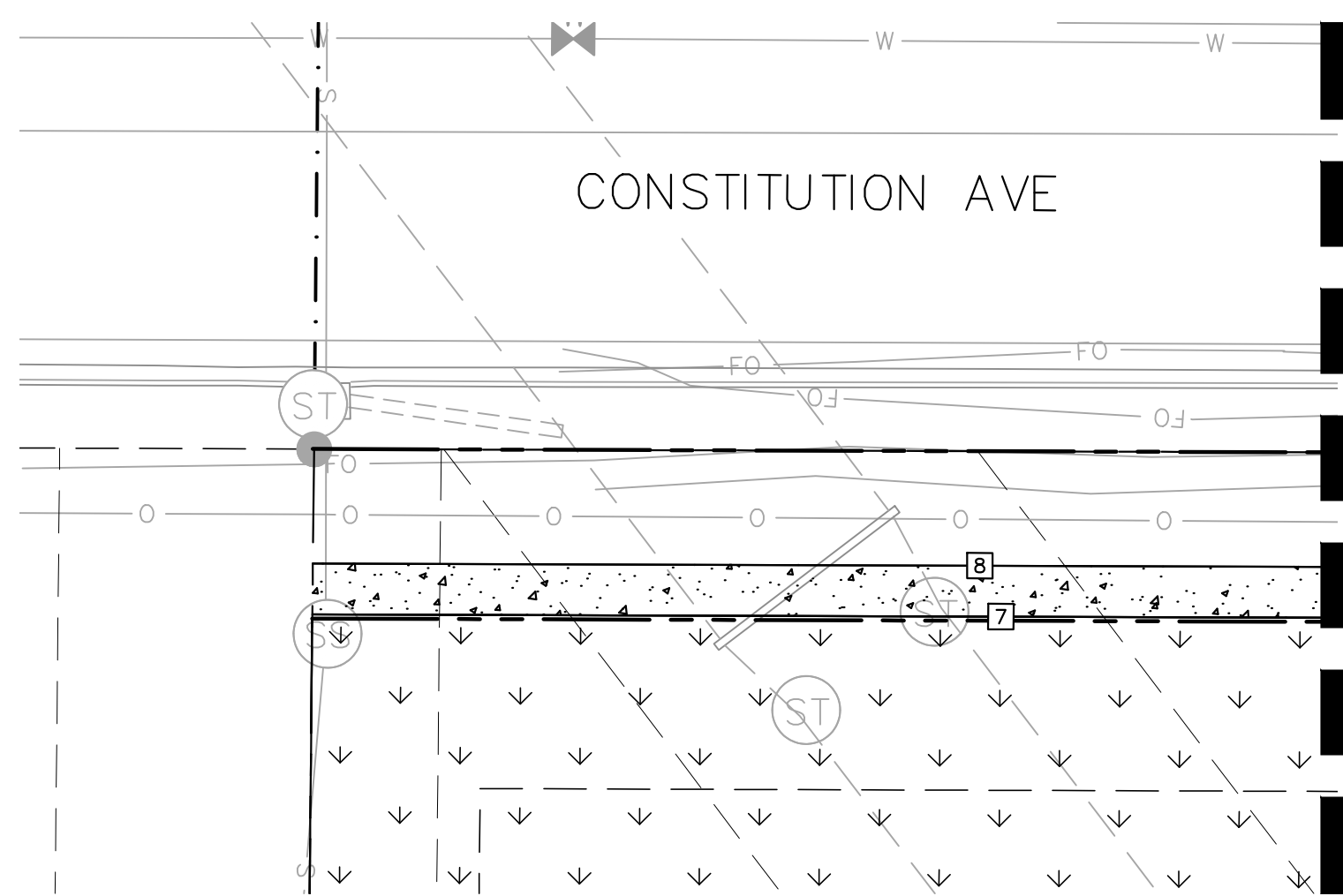


SEE BELOW LEFT FOR CONTINUATION

SEE ABOVE RIGHT FOR CONTINUATION



SEE SHEET 10 FOR CONTINUATION



LEGEND:

- SAWCUT
- PROPOSED HOT MIX ASPHALT
- ▨ PROPOSED CONCRETE SIDEWALK
- ▩ PROPOSED CONCRETE CURB RAMP
- ▧ PROPOSED MEDIAN COVER (PER EL PASO COUNTY SD_2-21)
- ▤ PROPOSED CONCRETE TRUCK APRON
- ▥ PROPOSED CENTRAL ISLAND COVER
- PROPOSED SOD
- ▩ PROPOSED GRAVEL ACCESS (SEE ON-SITE PLANS FOR ADDITIONAL DETAILS)
- ▨ PROPOSED RAISED GUTTER PAN

NOTES:

1. LINE AND CURVE DATA PROVIDED FOR CURB IS AT THE FLOWLINE OF PROPOSED CURB.
2. GUARDRAIL TO BE INSTALLED WITH 7' POST PER RESTRICTIVE ROADSIDE INSTALLATION CRITERIA PER CDOT M-606-1.
3. ALONG THE ACCESS DRIVE, THE FACE OF GUARDRAIL SHALL BE PARALLEL TO THE FLOWLINE OF THE CURB, AND THE TOP OF GUARDRAIL SHALL BE 27" HIGHER THAN THE FLOWLINE PER URBAN ROADSIDE INSTALLATION WITH CURB & GUTTER CRITERIA PER CDOT M-606-1.
4. SEE ON-SITE PLANS FOR ADDITIONAL INFORMATION ON SIDEWALK ALONG CONSTITUTION AVE.



CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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NO.	REVISION	BY	DATE	APPR.

Kimley»Horn
2022 KIMLEY-HORN AND ASSOCIATES, INC.
4582 South Ulster Street, Suite 1500
Denver, CO 80237 (303) 228-2300

DESIGNED BY: SMH
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AKERS DR & ACCESS ROAD ROUNDABOUT
EL PASO COUNTY, COLORADO
ROADWAY CONSTRUCTION DOCUMENTS
ROADWAY PLAN

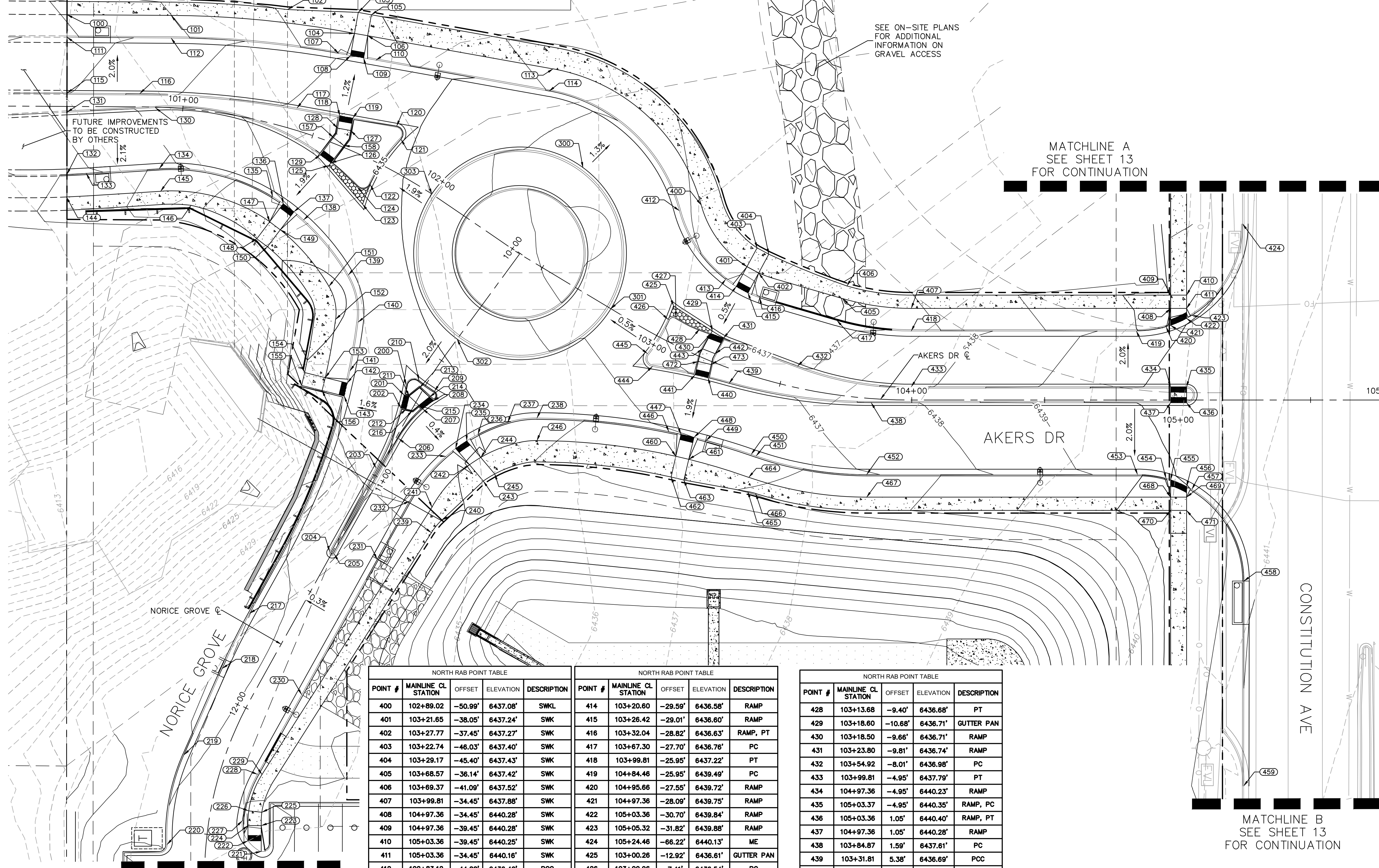


PROJECT NO.
096481004

SHEET

11

POINT #	MAINLINE CL STATION	OFFSET	ELEVATION	DESCRIPTION
100	100+56.24	-34.51'	6432.06'	SWK
101	100+93.89	-34.69'	6433.00'	SWK
102	101+29.95	-43.03'	6434.11'	SWK
103	101+50.95	-49.42'	6434.72'	SWK
104	101+52.00	-41.50'	6434.64'	SWK
105	101+54.90	-50.28'	6434.76'	SWK
106	101+56.07	-42.39'	6434.74'	SWK
107	101+49.33	-32.42'	6433.85'	RAMP, PT
108	101+53.18	-33.14'	6433.96'	RAMP
109	101+57.40	-34.03'	6434.08'	RAMP
110	101+61.33	-34.97'	6434.19'	RAMP
111	100+56.28	-26.01'	6431.40'	PI
112	100+94.21	-26.20'	6432.34'	PC
113	102+11.09	-64.57'	6436.19'	SWK
114	102+14.58	-56.82'	6435.53'	PC
115	100+56.39	-5.01'	6431.97'	PT
116	100+83.76	-4.98'	6432.63'	PC
117	101+41.42	-8.08'	6434.12'	PT
118	101+56.87	-10.50'	6434.44'	RAMP
119	101+61.51	-11.48'	6434.53'	RAMP
120	101+76.71	-15.62'	6434.86'	PC
121	101+80.21	-11.89'	6434.95'	PCC
122	101+77.73	8.56'	6434.80'	PCC
123	101+78.62	16.45'	6434.69'	GUTTER PAN
124	101+73.53	11.47'	6434.70'	PCC
125	101+59.87	8.37'	6434.53'	GUTTER PAN
126	101+60.19	7.27'	6434.59'	RAMP, PCC
127	101+62.47	-6.88'	6434.77'	RAMP
128	101+57.72	-5.87'	6434.67'	RAMP
129	101+55.22	5.89'	6434.55'	RAMP
130	100+89.64	0.23'	6433.23'	PT
131	100+56.42	2.17'	6432.22'	PT
132	100+56.52	25.56'	6431.58'	PC
133	100+63.80	25.13'	6431.80'	PT
134	100+92.04	23.12'	6432.64'	PC
135	101+42.23	26.50'	6433.84'	RAMP
136	101+47.54	27.80'	6433.93'	RAMP
137	101+53.08	28.36'	6434.02'	RAMP, PCC
138	101+58.35	30.98'	6434.09'	RAMP
139	101+87.95	42.40'	6434.41'	PCC
140	102+04.38	55.52'	6434.38'	PCC
141	102+12.18	72.33'	6434.17'	RAMP
142	102+13.97	76.70'	6434.11'	RAMP
143	102+15.77	81.37'	6434.05'	RAMP
144	100+56.37	34.07'	6432.23'	SWK
145	100+93.09	31.58'	6433.30'	SWK
146	101+07.31	35.95'	6433.82'	SWK
147	101+44.18	35.83'	6434.59'	SWK
148	101+40.71	43.33'	6434.67'	SWK
149	101+49.97	37.46'	6434.68'	SWK
150	101+46.74	45.04'	6434.76'	SWK
151	101+82.33	48.72'	6435.07'	SWK
152	101+93.82	59.20'	6435.04'	SWK
153	102+06.01	79.68'	6434.77'	SWK
154	101+94.72	82.36'	6434.89'	SWK
155	101+97.53	87.09'	6434.83'	SWK
156	102+07.76	84.37'	6434.71'	SWK
157	101+57.55	-1.98'	6434.67'	RAMP
158	101+62.34	-0.66'	6434.77'	RAMP



POINT #	MAINLINE CL STATION	OFFSET	ELEVATION	DESCRIPTION
400	102+89.02	-50.99'	6437.08'	SWK
401	103+21.65	-38.05'	6437.24'	SWK
402	103+27.77	-37.45'	6437.27'	SWK
403	103+22.74	-46.03'	6437.40'	SWK
404	103+29.17	-45.40'	6437.43'	SWK
405	103+68.57	-36.14'	6437.42'	SWK
406	103+69.37	-41.09'	6437.52'	SWK
407	103+99.81	-34.45'	6437.88'	SWK
408	104+97.36	-34.45'	6440.28'	SWK
409	104+97.36	-39.45'	6440.28'	SWK
410	105+03.36	-39.45'	6440.25'	SWK
411	105+03.36	-34.45'	6440.16'	SWK
412	102+83.12	-44.88'	6436.42'	PCC
413	103+15.04	-30.49'	6436.56'	RAMP

POINT #	MAINLINE CL STATION	OFFSET	ELEVATION	DESCRIPTION
414	103+20.60	-29.59'	6436.58'	RAMP
415	103+26.42	-29.01'	6436.60'	RAMP
416	103+32.04	-28.82'	6436.63'	RAMP, PT
417	103+67.30	-27.70'	6436.76'	PC
418	103+99.81	-25.95'	6437.22'	PT
419	104+84.46	-25.95'	6439.49'	PC
420	104+95.66	-27.55'	6439.72'	RAMP
421	104+97.36	-28.09'	6439.75'	RAMP
422	105+03.36	-30.70'	6439.84'	RAMP
423	105+05.32	-31.82'	6439.88'	RAMP
424	105+24.46	-66.22'	6440.13'	ME
425	103+00.26	-12.92'	6436.61'	GUTTER PAN
426	103+00.96	-7.41'	6436.54'	PC
427	103+03.24	-9.54'	6436.62'	PCC

POINT #	MAINLINE CL STATION	OFFSET	ELEVATION	DESCRIPTION
428	103+13.68	-9.40'	6436.68'	PT
429	103+18.60	-10.68'	6436.71'	GUTTER PAN
430	103+18.50	-9.66'	6436.71'	RAMP
431	103+23.80	-9.81'	6436.74'	RAMP
432	103+54.92	-8.01'	6436.98'	PC
433	103+99.81	-4.95'	6437.79'	PT
434	104+97.36	-4.95'	6440.23'	RAMP
435	105+03.37	-4.95'	6440.35'	RAMP, PC
436	105+03.36	1.05'	6440.40'	RAMP, PT
437	104+97.36	1.05'	6440.28'	RAMP
438	103+84.87	1.59'	6437.61'	PC
439	103+31.81	5.38'	6436.69'	PCC
440	103+23.92	6.21'	6436.61'	RAMP
441	103+19.14	6.99'	6436.54'	RAMP

FOR NORTH RAB POINTS DATA NOS. 442 - 495 SEE SHEET 13

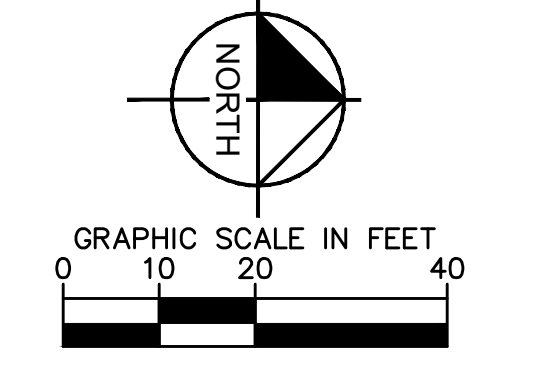
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300	102+43.73	-40.11'	6436.47'	CNTR ISLD
301	102+80.05	0.00'	6436.30'	CNTR ISLD
302	102+38.73	39.70'	6435.16'	CNTR ISLD
303	102+00.03	0.00'	6435.24'	CNTR ISLD

POINT #	MAINLINE CL STATION	OFFSET	ELEVATION	DESCRIPTION
200	10+64.54	6.37'	6434.88'	PC
201	10+68.19	5.21'	6434.63'	RAMP
202	10+73.02	3.91'	6434.57'	RAMP
203	10+97.35	1.00'	6434.29'	PT
204	11+33.23	1.00'	6433.33'	PC
205	11+33.23	-1.00'	6433.41'	PT
206	10+83.47	-1.00'	6434.69'	PC
207	10+69.37	-3.50'	6434.86'	RAMP
208	10+64.69	-5.54'	6434.92'	RAMP, PCC
209	10+61.23	-4.04'	6434.83'	PCC
210	10+60.68	3.11'	6434.79'	PCC
211	10+67.63	3.31'	6434.78'	SWK

POINT #	MAINLINE CL STATION	OFFSET	ELEVATION	DESCRIPTION
212	10+72.46	1.99'	6434.74'	SWK
213	10+83.03	1.44'	6434.83'	SWK
214	10+64.19	-3.48'	6434.93'	SWK
215	10+68.88	-1.58'	6434.83'	SWK
216	10+71.75	-0.41'	6434.78'	SWK
217	11+68.21	16.00'	6432.45'	PCC
218	11+91.34	14.94'	6432.34'	PT
219	12+23.90	14.78'	6432.62'	PC
220	12+55.05	14.80'	6433.43'	PCC
221	12+54.72	-20.93'	6433.60'	RAMP, PC
222	12+50.70	-15.56'	6433.56'	RAMP
223	12+43.43	-19.74'	6434.09'	SWK

POINT #	MAINLINE CL STATION	OFFSET	ELEVATION	DESCRIPTION
224	12+44.34	-14.80'	6434.04'	SWK
225	12+37.66	-19.04'	6434.13'	SWK
226	12+38.20	-14.10'	6434.02'	SWK
227	12+42.75	-12.39'	6433.29'	PCC
228	12+22.48	-13.73'	6433.43'	PT
229	12+21.93	-15.40'	6433.93'	SWK
230	11+85.42	-16.00'	6433.25'	PT
231	11+27.12	-16.00'	6433.63'	PT
232	11+02.13	-16.00'	6433.87'	PC
233	10+80.72	-19.75'	6434.37'	RAMP
234	10+76.31	-21.53'	6434.48'	RAMP
235	10+71.82	-23.78'	6434.60'	RAMP

POINT #	MAINLINE CL STATION	OFFSET	ELEVATION	DESCRIPTION
236	10+67.64	-26.28'	6434.71'	RAMP
237	10+56.05	-33.63'	6434.98'	PCC
238	10+46.19	-41.76'	6435.20'	PCC
239	11+08.47	-28.97'	6434.48'	SWK
240	11+02.33	-30.11'	6434.64'	SWK
241	10+99.97	-24.50'	6434.59'	SWK
242	10+79.15	-29.09'	6435.15'	SWK
243	10+81.98	-36.60'	6435.25'	SWK
244	10+74.70	-31.44'	6435.24'	SWK
245	10+77.56	-39.07'	6435.34'	SWK
246	10+55.87	-46.59'	6435.86'	SWK



811 Know what's below. Call before you dig.

CALL UTILITY NOTIFICATION CENTER OF COLORADO 1-800-922-1987

Kimley»Horn
 2022 KIMLEY-HORN AND ASSOCIATES, INC.
 4882 South Ulster Street, Suite 1500
 Denver, CO 80237 (303) 228-2300

DESIGNED BY: SMH
 DRAWN BY: TL
 CHECKED BY: CEH
 DATE: 10/26/2022

AKERS DR & ACCESS ROAD ROUNDABOUT
 EL PASO COUNTY, COLORADO
 ROADWAY CONSTRUCTION DOCUMENTS
 GRADING PLAN

PROJECT NO. 096481004
 SHEET 12

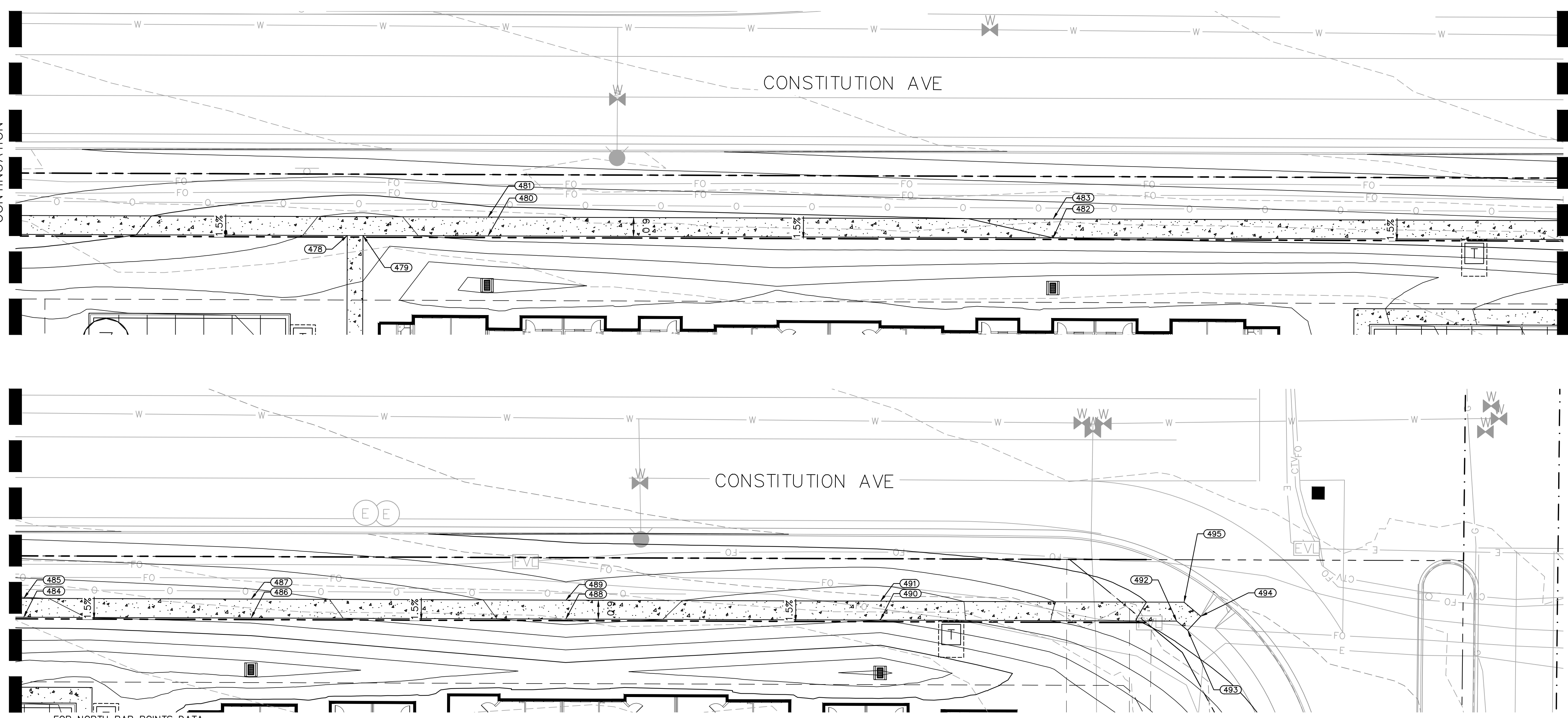
REVISION NO. BY DATE APPR.

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MATCHLINE B
SEE SHEET 12 FOR
CONTINUATION

SEE ABOVE RIGHT FOR
CONTINUATION

SEE BELOW LEFT FOR
CONTINUATION



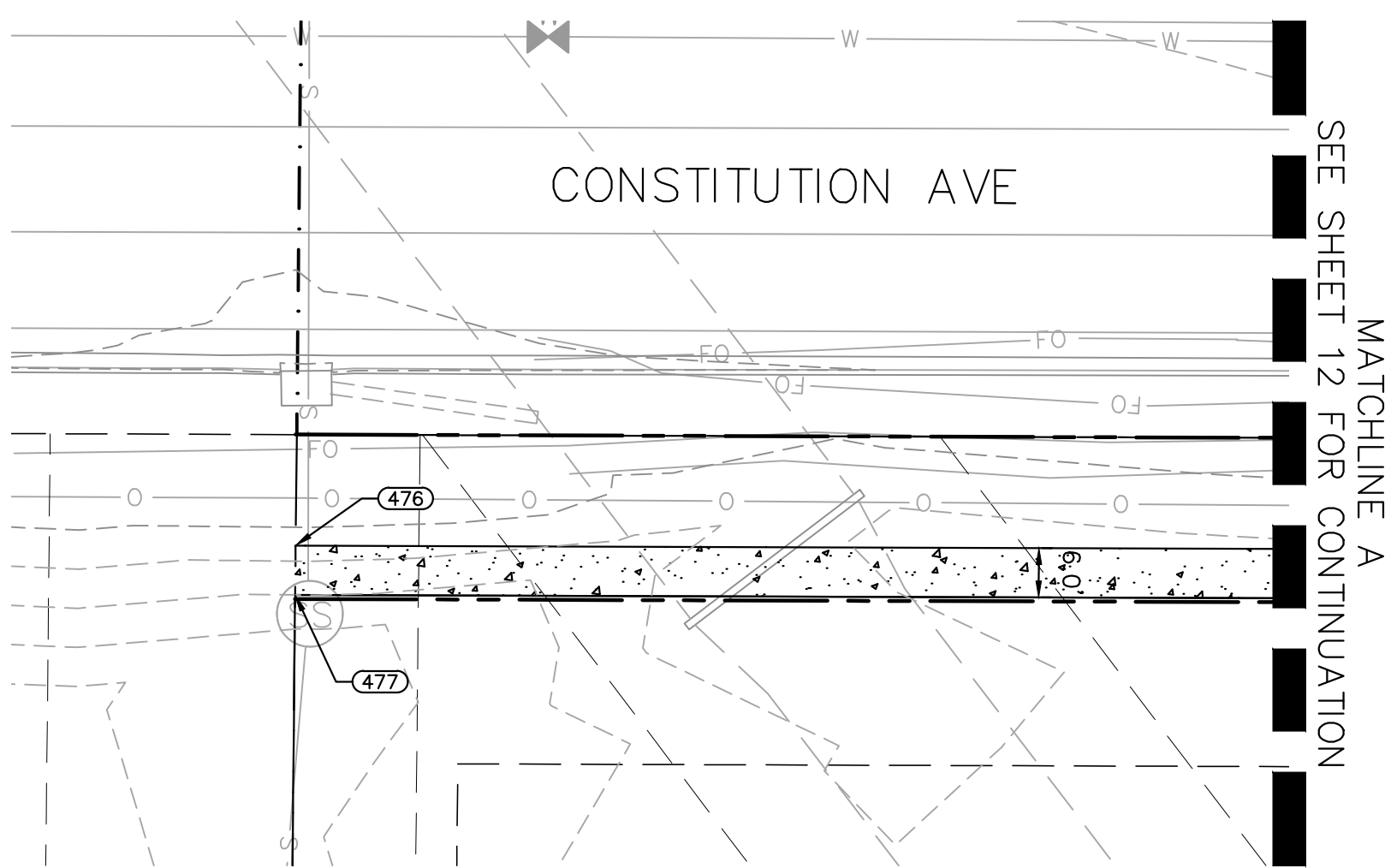
FOR NORTH RAB POINTS DATA
NOS. 400 - 441 SEE SHEET 12

NORTH RAB POINT TABLE				
POINT #	MAINLINE CL STATION	OFFSET	ELEVATION	DESCRIPTION
442	103+23.03	-3.24'	6436.89'	RAMP
443	103+17.90	-3.08'	6436.84'	RAMP
444	103+03.96	10.98'	6436.31'	PCC
445	103+00.23	7.60'	6436.34'	PCC
446	103+18.47	30.55'	6435.92'	RAMP
447	103+22.51	29.69'	6435.97'	RAMP
448	103+26.83	28.99'	6436.01'	RAMP
449	103+30.94	28.51'	6436.06'	RAMP
450	103+46.47	28.40'	6436.23'	PT
451	103+48.17	28.54'	6436.25'	PC
452	103+85.09	28.64'	6436.90'	PT
453	104+84.93	28.05'	6439.45'	PC
454	104+95.65	29.51'	6439.75'	RAMP
455	104+97.36	30.03'	6439.82'	RAMP

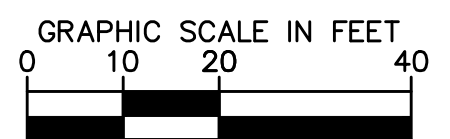
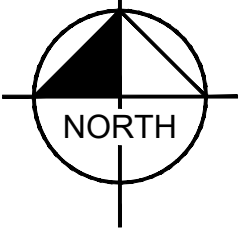
NORTH RAB POINT TABLE				
POINT #	MAINLINE CL STATION	OFFSET	ELEVATION	DESCRIPTION
470	104+97.36	41.55'	6440.36'	SWK
471	105+03.36	41.55'	6440.33'	SWK
472	103+18.29	1.93'	6436.79'	RAMP
473	103+23.18	1.13'	6436.85'	RAMP
476	105+03.36	-189.52'	6439.46'	SWK
477	104+97.36	-189.56'	6438.00'	SWK
478	104+97.36	256.58'	6438.73'	SWK
479	104+97.36	261.58'	6438.68'	SWK
480	104+97.36	301.28'	6439.40'	SWK
481	105+03.36	301.29'	6439.49'	SWK
482	104+97.36	480.87'	6440.00'	SWK
483	105+03.36	480.88'	6440.09'	SWK
484	104+97.36	645.75'	6440.85'	SWK
485	105+03.36	645.76'	6440.94'	SWK

NORTH RAB POINT TABLE				
POINT #	MAINLINE CL STATION	OFFSET	ELEVATION	DESCRIPTION
456	105+03.36	32.55'	6439.95'	RAMP
457	105+05.33	33.64'	6440.03'	RAMP
458	105+24.93	68.09'	6440.74'	PT
459	105+24.84	145.18'	6441.30'	ME
460	103+23.59	38.10'	6436.63'	SWK
461	103+27.76	37.42'	6436.67'	SWK
462	103+24.61	46.00'	6436.75'	SWK
463	103+28.58	45.36'	6436.79'	SWK
464	103+47.82	37.02'	6436.91'	SWK
465	103+48.49	42.32'	6437.03'	SWK
466	103+50.99	42.30'	6437.06'	SWK
467	103+85.60	37.12'	6437.56'	SWK
468	104+97.36	36.55'	6440.32'	SWK
469	105+03.36	36.55'	6440.24'	SWK

NORTH RAB POINT TABLE				
POINT #	MAINLINE CL STATION	OFFSET	ELEVATION	DESCRIPTION
486	104+97.36	718.03'	6441.40'	SWK
487	105+03.36	718.04'	6441.49'	SWK
488	104+97.36	818.04'	6443.45'	SWK
489	105+03.36	818.05'	6443.54'	SWK
490	104+97.36	918.03'	6442.00'	SWK
491	105+03.36	918.04'	6442.09'	SWK
492	104+97.36	1012.20'	6445.48'	SWK
493	104+94.43	1015.71'	6445.65'	SWK
494	104+98.91	1019.87'	6445.57'	SWK
495	105+03.36	1014.53'	6445.41'	SWK



MATCHLINE A
SEE SHEET 12 FOR
CONTINUATION



NOTES:
1. ALL STATIONING IS FROM AKERS CL UNLESS OTHERWISE STATED.

LEGEND:
- - - - - TOP OF SLOPE
- TOE OF SLOPE

NO.	REVISION	BY	DATE	APPR.

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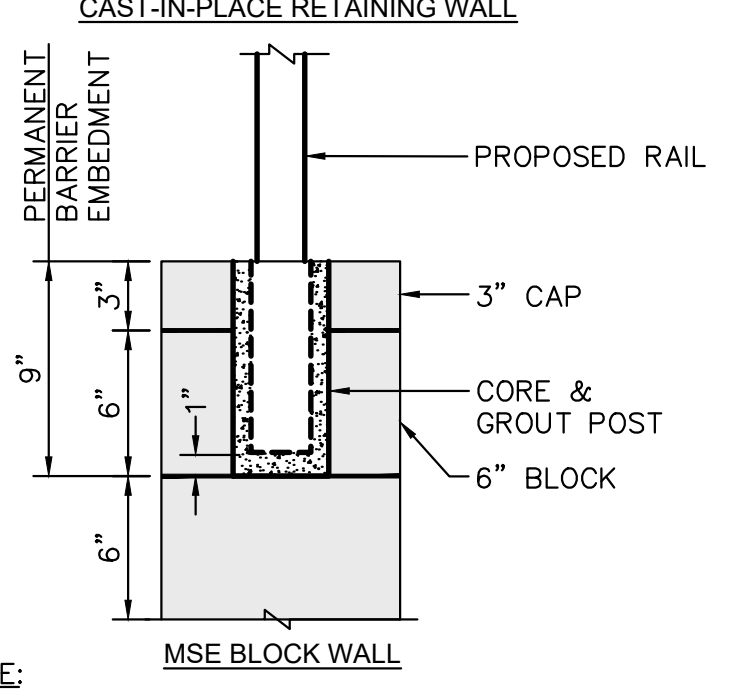
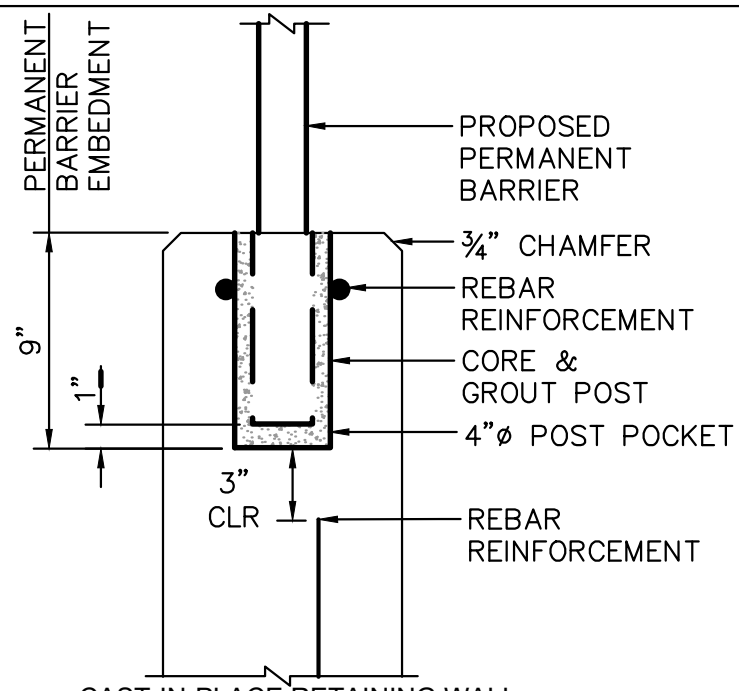
DESIGNED BY: SMH
DRAWN BY: TL
CHECKED BY: CEH
DATE: 10/26/2022

AKERS DR & ACCESS ROAD ROUNDABOUT
EL PASO COUNTY, COLORADO
ROADWAY CONSTRUCTION DOCUMENTS
GRADING PLAN



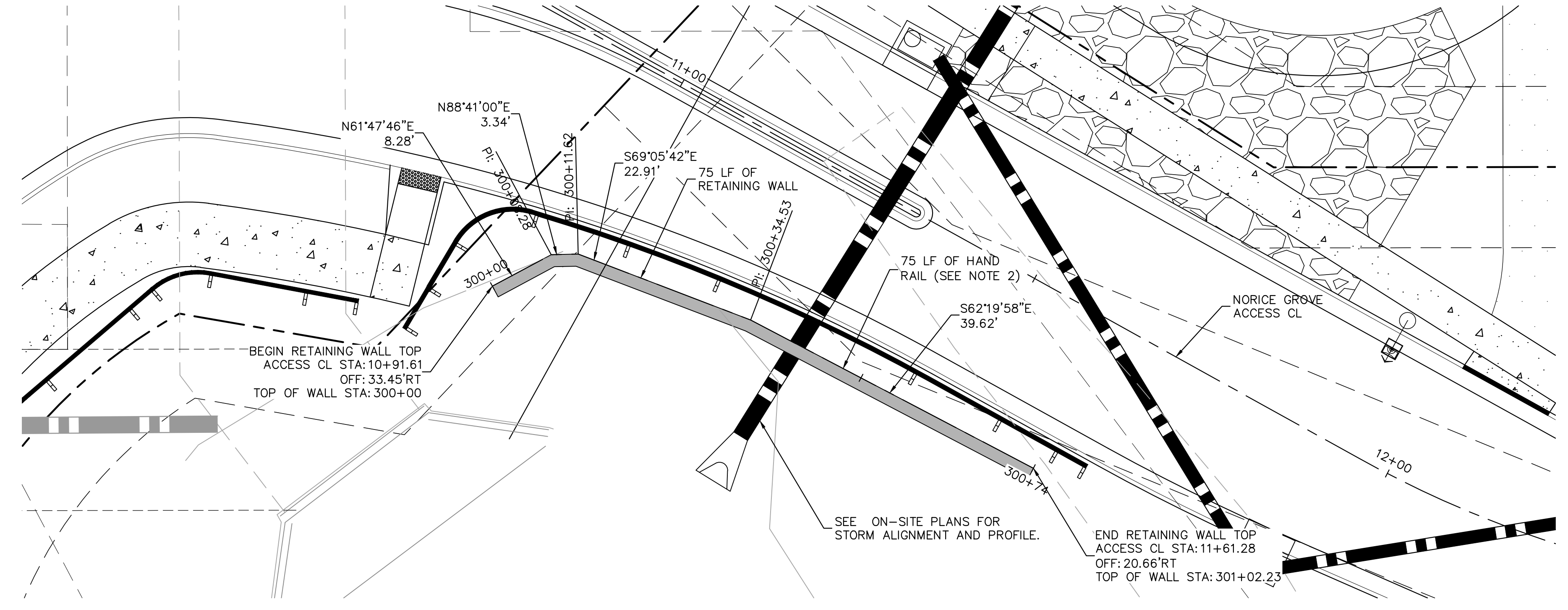
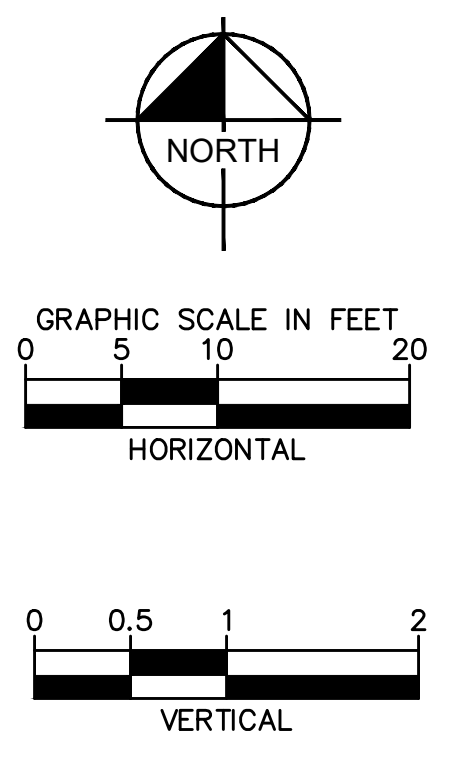
PROJECT NO.
096481004

SHEET
13



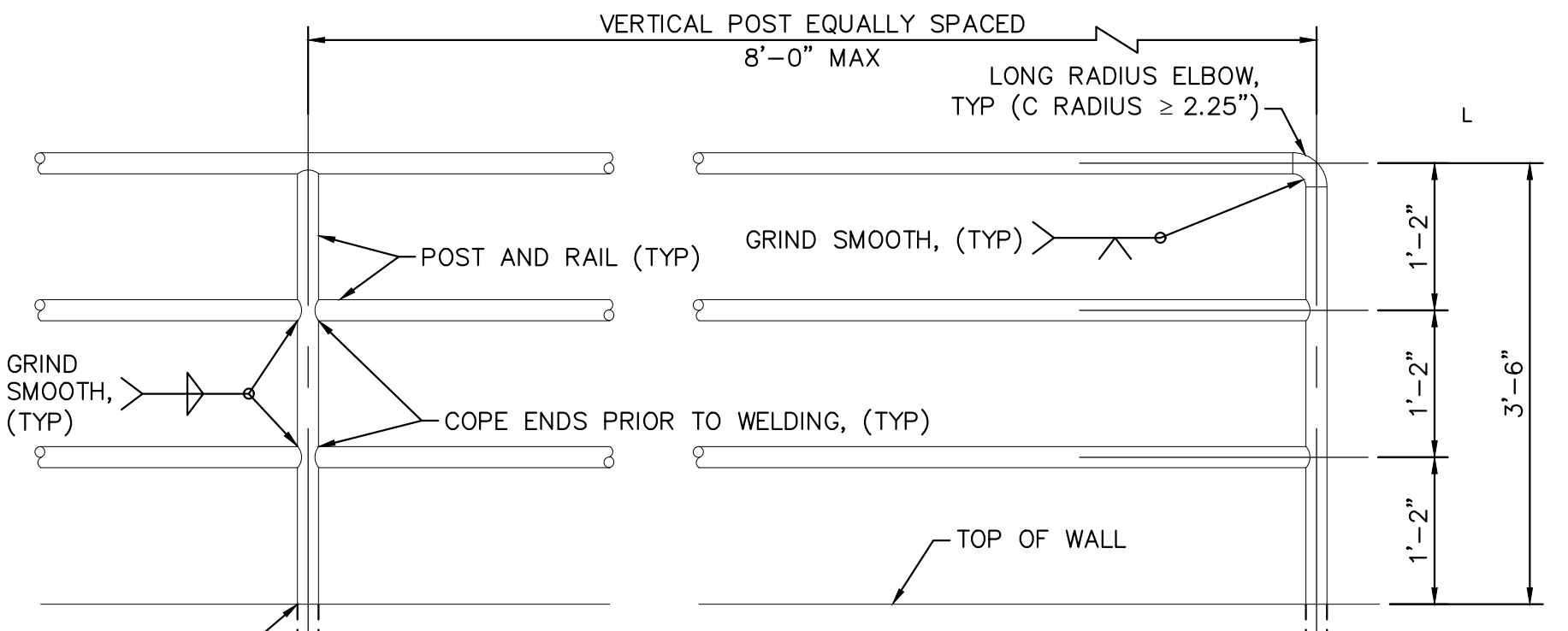
NOTE:
GUARDRAILS ARE TO BE 42" MINIMUM HEIGHT AND REQUIRED IN ANY LOCATION WHERE THE ADJACENT GRADE IS MORE THAN 30" BELOW THE TOP OF WALL.

SAFETY RAILING WALL EMBEDMENT DETAIL (N.T.S.)



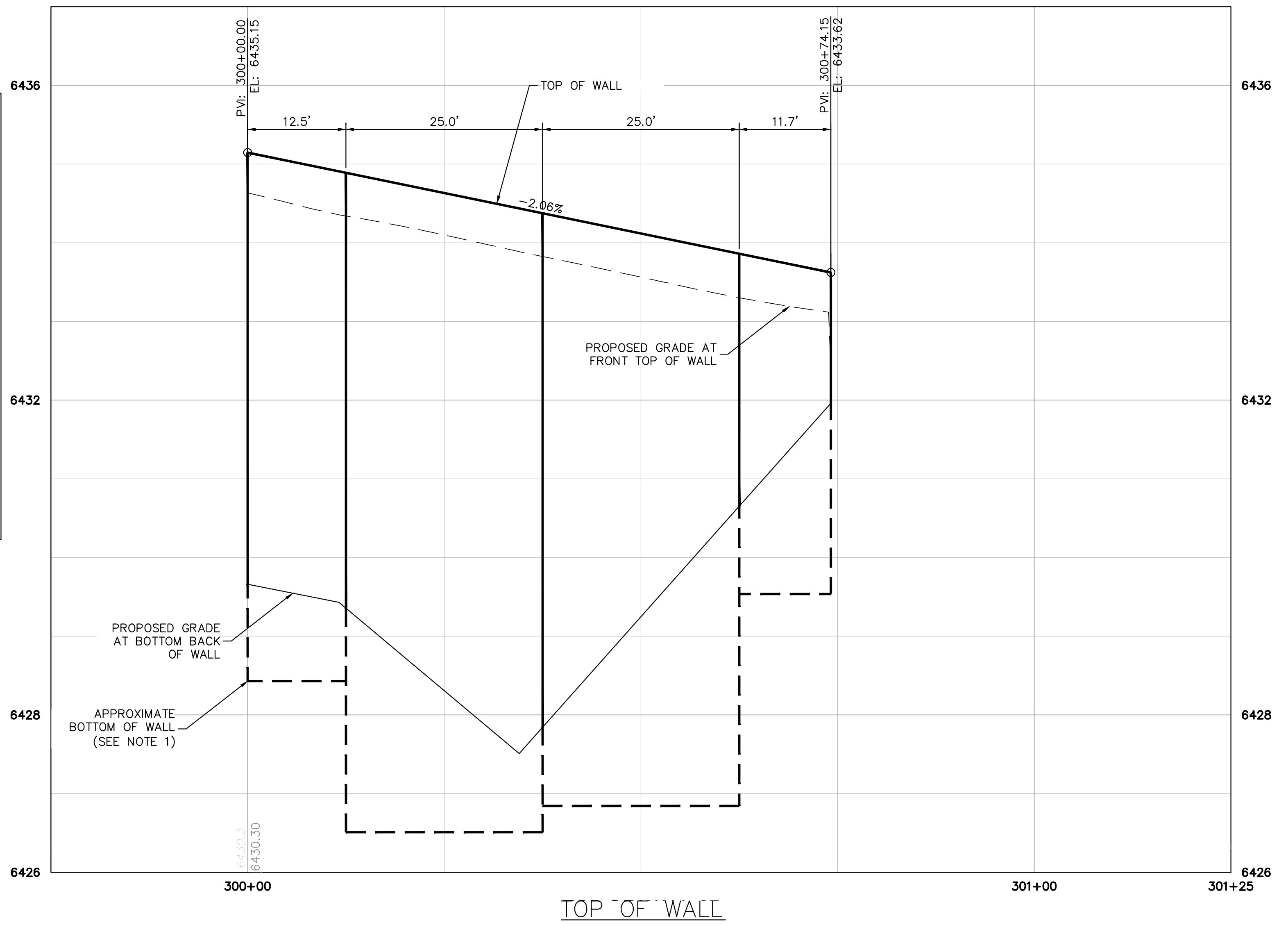
SAFETY RAILING NOTES:

1. POSTS AND RAILING SHALL BE 1.5" SCHEDULE 40 STEEL PIPE PER ASTM A53 GRADE B (2.72 #/LF, 1.9" O.D.). SHOP PRIME RAIL WITH PRUST INHIBITING PRIMER (FIELD REPAIR PRIMER AS NEEDED). RAIL FINISH PAINT SHALL BE BENJAMIN MOORE (BM) 1001 (4B) NORTH CREEK BROWN, SATIN FINISH.
2. VERTICAL POSTS TO BE EVENLY SPACED. REMOVE ALL SHARP EDGES.
3. THE ANCHORAGE EMBEDMENT SHALL BE LOCATED BEHIND THE MSE BLOCK WALL AND ANCHORED PER MANUFACTURER RECOMMENDATIONS.
4. RAILING SHALL BE REQUIRED AT ALL LOCATIONS WHERE RETAINING WALLS ARE 30" TALL OR TALLER.



POST EMBEDMENT. FOR WALL EMBEDMENT DETAIL SEE THIS SHEET. FOR OTHER EMBEDMENT TYPES, SEE MANUFACTURER RECOMMENDATIONS FOR ANCHORAGE DETAILS. CONTRACTOR SHALL SUBMIT EMBEDMENT/ANCHORAGE DETAIL TO ENGINEER OF RECORD FOR APPROVAL, INCLUDING A DESIGN SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF COLORADO.

SAFETY RAILING - ELEVATION (WALL)
NOT TO SCALE



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- NOTES:**
1. SIZE OF WALL FOOTING AND LOCATION OF FOOTING STEPS ARE APPROXIMATE ONLY. CONTRACTOR SHALL PROVIDE FINAL DESIGN & SHOP DRAWINGS TO THE COUNTY PRIOR TO CONSTRUCTION.
 2. CONTRACTOR SHALL INSTALL HANDRAIL ALONG THE TOP OF THE RETAINING WALL REFER TO DETAILS ON THIS SHEET.

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Kimley»Horn
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CHECKED BY: CEH
DATE: 10/26/2022

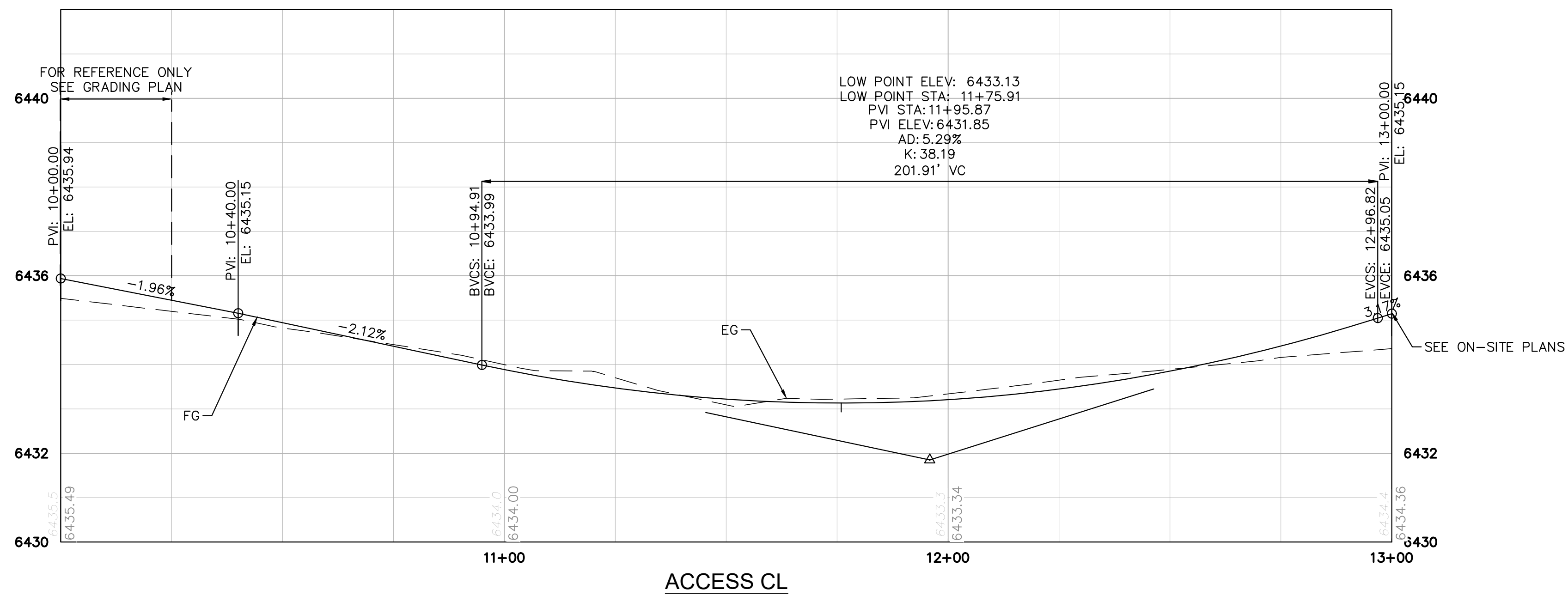
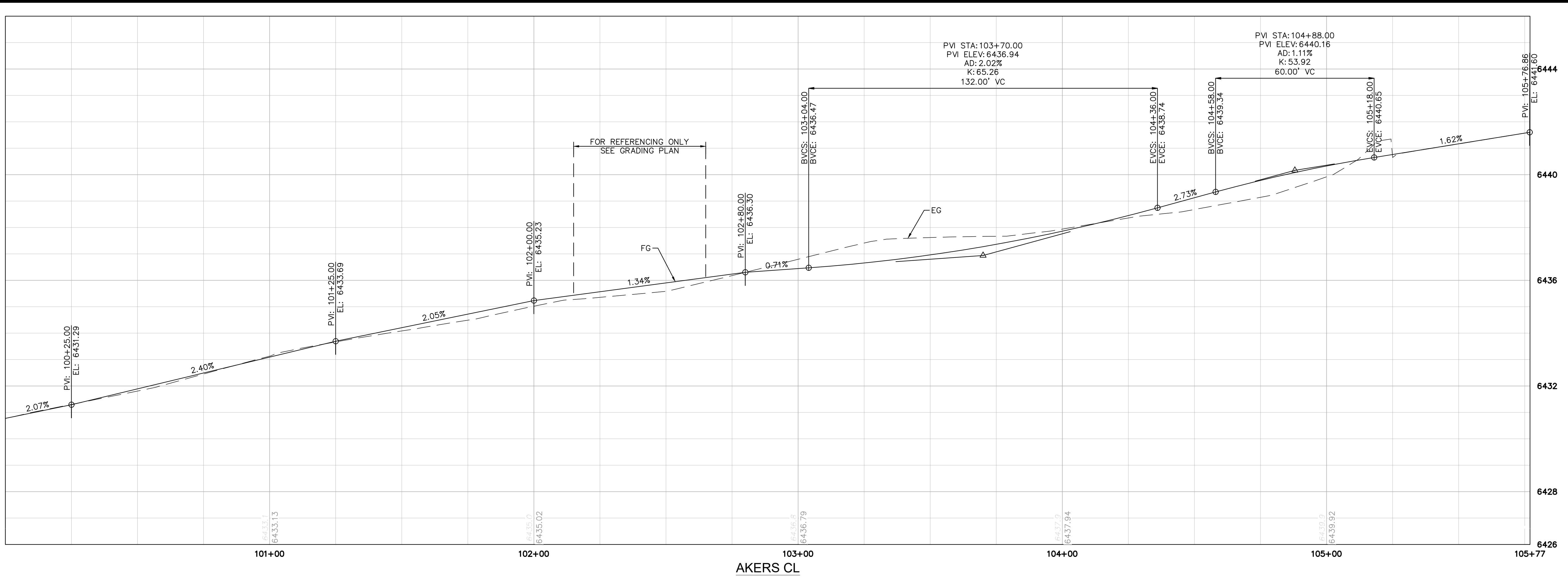
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EL PASO COUNTY, COLORADO
ROADWAY CONSTRUCTION DOCUMENTS
RETAINING WALL PLAN**



PROJECT NO.
096481004

SHEET
14

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DESIGNED BY: SMH
 DRAWN BY: JT
 CHECKED BY: CEH
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AKERS DR & ACCESS ROAD ROUNDABOUT
 EL PASO COUNTY, COLORADO
 ROADWAY CONSTRUCTION DOCUMENTS
ROADWAY PROFILES



PROJECT NO.
096481004
 SHEET
15

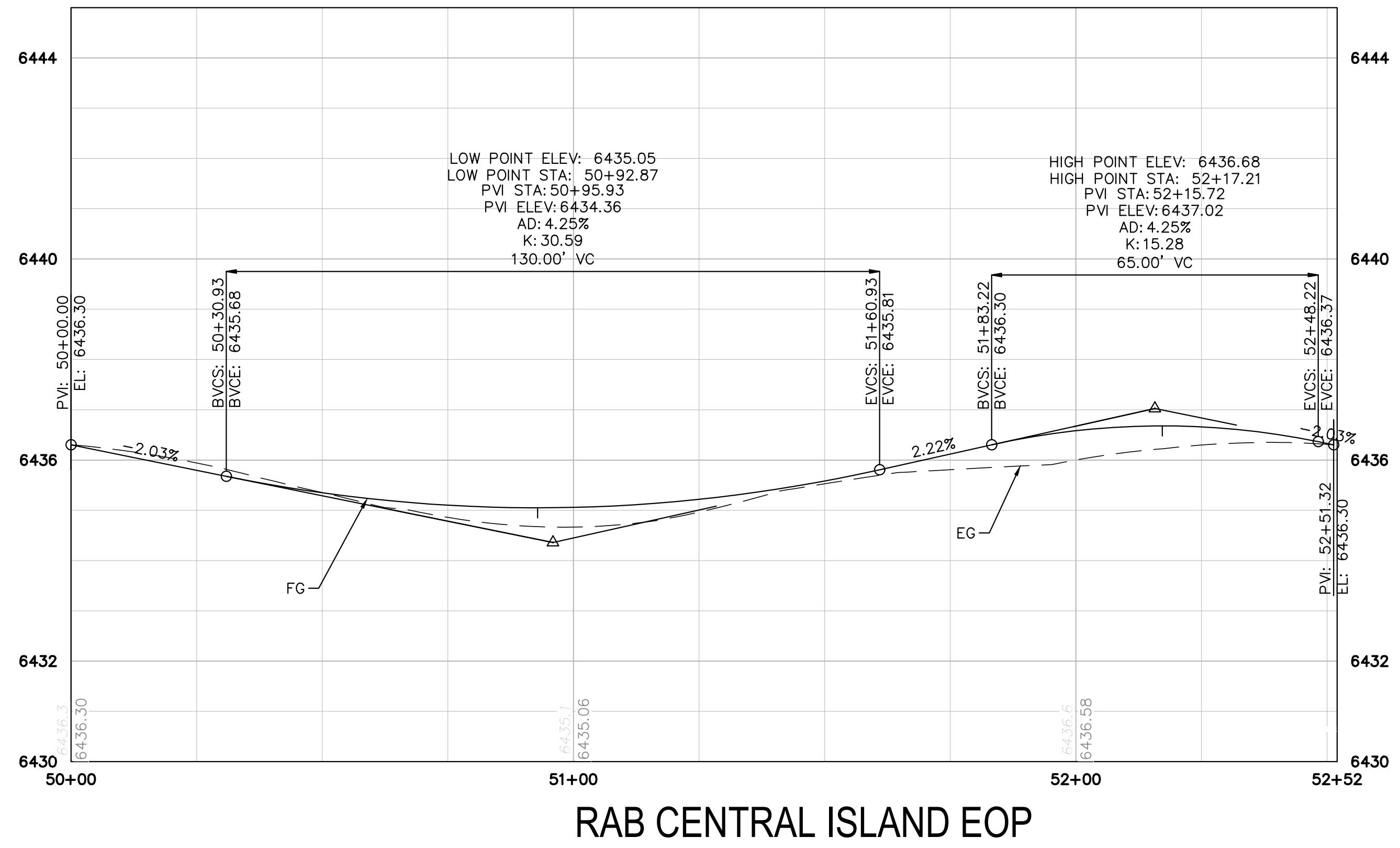
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CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE, OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES



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 Denver, CO 80237 (303) 228-2300

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 DATE: 10/20/2022

AKERS DR & ACCESS ROAD ROUNDABOUT
 EL PASO COUNTY, COLORADO
 ROADWAY CONSTRUCTION DOCUMENTS
 ROADWAY PROFILES



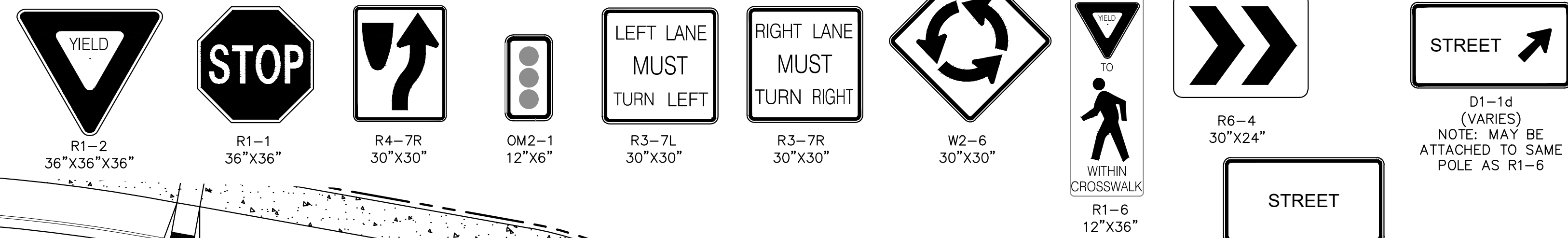
PROJECT NO.
096481004

SHEET

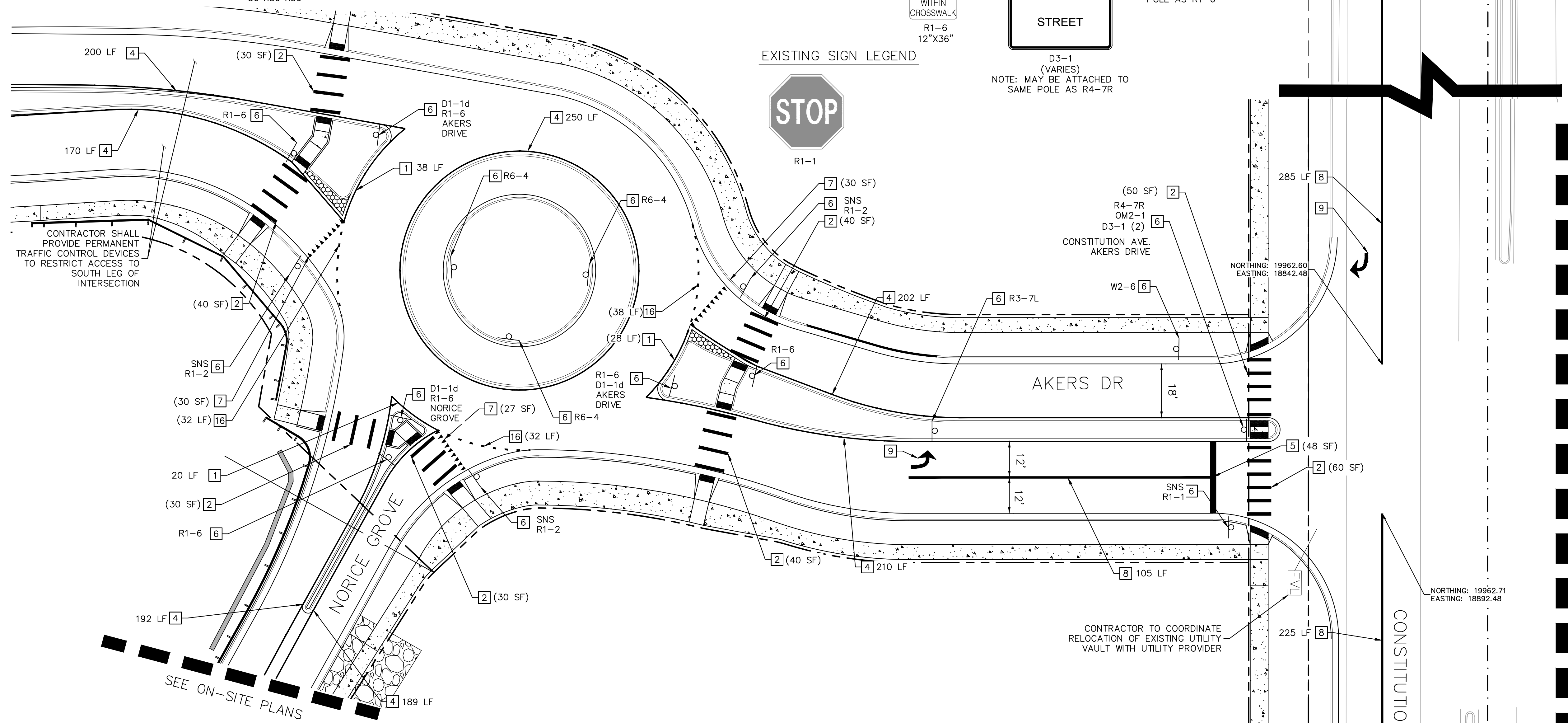
16

NOTES:
 1. CONTRACTOR SHALL CONFER WITH EL PASO COUNTY PRIOR TO FABRICATION OF STREET NAME SIGNS.

PROPOSED SIGN LEGEND



EXISTING SIGN LEGEND

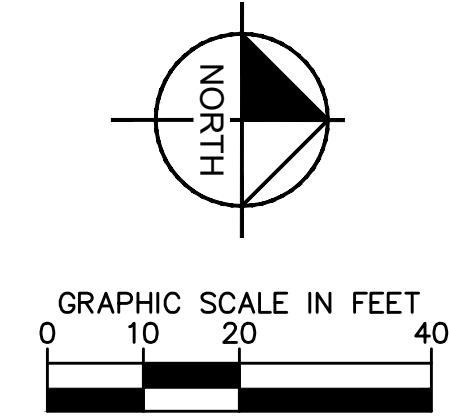


CONTRACTOR SHALL PROVIDE PERMANENT TRAFFIC CONTROL DEVICES TO RESTRICT ACCESS TO SOUTH LEG OF INTERSECTION

CONTRACTOR TO COORDINATE RELOCATION OF EXISTING UTILITY VAULT WITH UTILITY PROVIDER

SIGNING AND STRIPING NOTES

- | | |
|--|--|
| 1 EDGE LINE: SOLID WHITE, 4" WIDE (EPOXY) | 9 TURN ARROW: WHITE, 16.1 SF (PER CDOT S-627-1) (THERMOPLASTIC) |
| 2 CROSSWALK MARKING: 10 SF, 1"X10" SOLID WHITE, SPACING AS NEEDED PER AND WHEEL PATH (THERMOPLASTIC) | 10 RESET SIGN ON NEW POST |
| 3 THRU-TURN ARROW: WHITE, 27.5 SF (PER CDOT S-627-1) (THERMOPLASTIC) | 11 EXISTING SIGN AND POST TO REMAIN |
| 4 EDGE LINE: SOLID YELLOW, 4" WIDE (EPOXY) | 12 CHEVRON: WHITE, 8" WIDE, 5 SF, 25' SPACING (THERMOPLASTIC) |
| 5 STOP BAR: WHITE, 2' WIDE (THERMOPLASTIC) | 13 TURN ARROW: WHITE, 16.1 SF (PER CDOT S-627-1) (THERMOPLASTIC) |
| 6 NEW SIGN PANEL WITH NEW POST | 14 STOP MARKING: WHITE, 8' TALL, 7'-4" WIDE (PER CDOT S-627-1) (THERMOPLASTIC) |
| 7 YIELD TEETH: WHITE TRIANGLES, 1' WIDE AND 1.5' TALL, 0.75 SF (THERMOPLASTIC) | 15 RUBBER CURB: 1' WIDE |
| 8 CHANNELIZING LINE: SOLID WHITE, 8" WIDE (EPOXY) | 16 ROUNDABOUT LINE: WHITE, 6" WIDE, 1 SF, 2' PAINT, 4' SPACING |



K:\DEN_Civil\096481004 - El Paso Constitution\CADD\PlanSheets\RAB\Signing and Striping.dwg Kramer, Michael 10/25/2022 10:00 PM



NO.	REVISION	BY	DATE	APPR.

Kimley»Horn
 2022 KIMLEY-HORN AND ASSOCIATES, INC.
 4582 South Ulster Street, Suite 1500
 Denver, CO 80237 (303) 228-2300

DESIGNED BY: SMH
 DRAWN BY: TL
 CHECKED BY: CEH
 DATE: 10/26/2022

AKERS DR & ACCESS ROAD ROUNDABOUT
 EL PASO COUNTY, COLORADO
 ROADWAY CONSTRUCTION DOCUMENTS
SIGNING AND STRIPING



PROJECT NO.
096481004

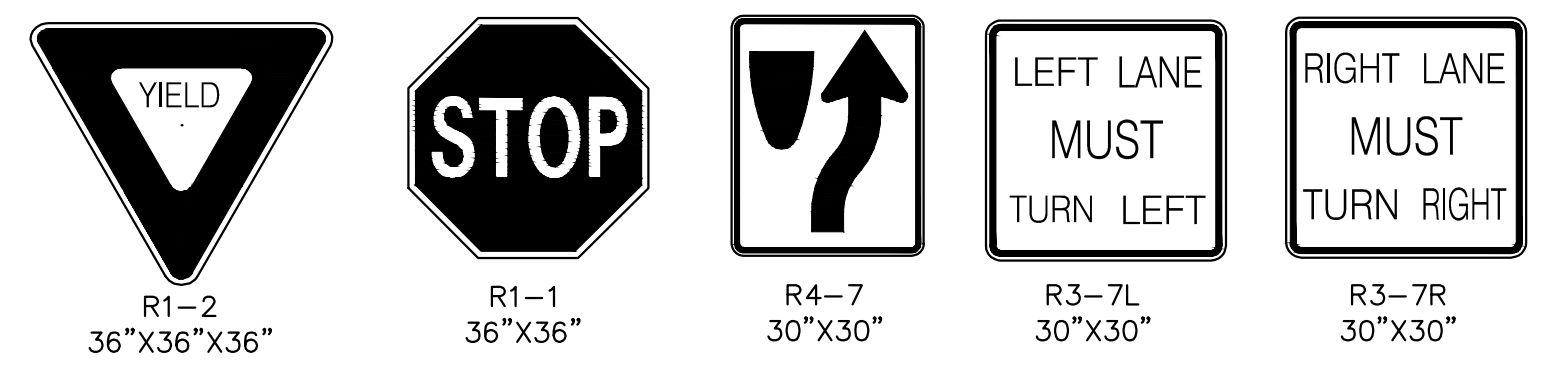
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17

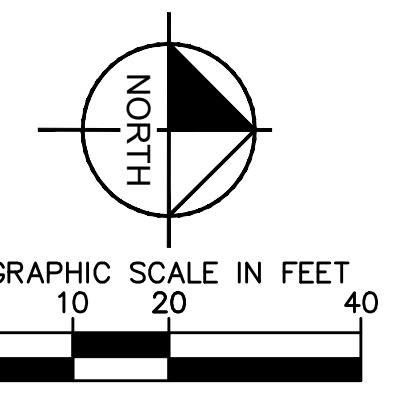
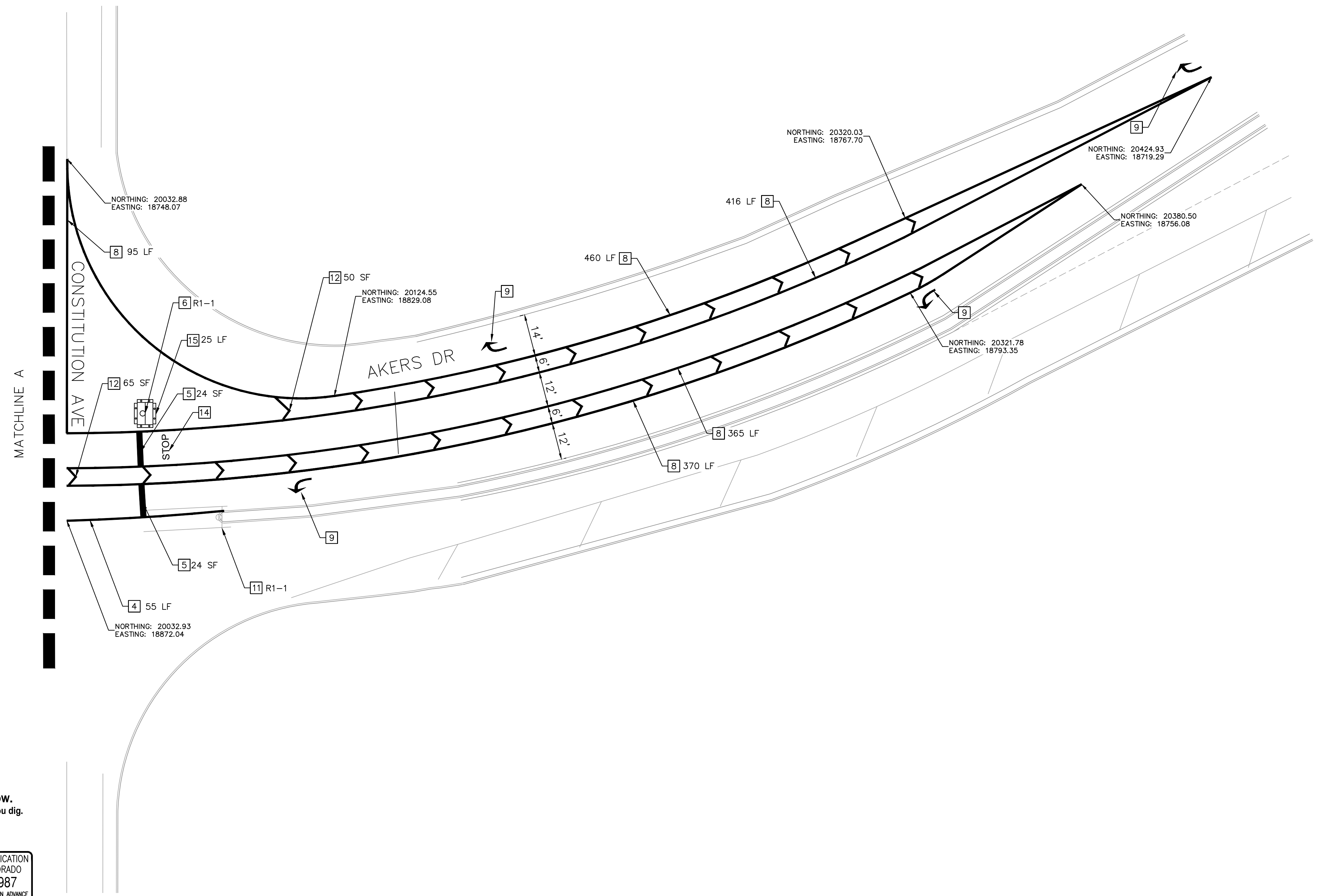
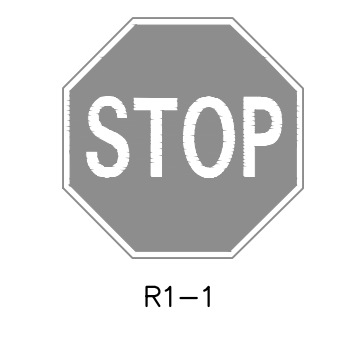
SIGNING AND STRIPING NOTES

- 1 EDGE LINE: SOLID WHITE, 4" WIDE (EPOXY)
- 2 CROSSWALK MARKING: 20 SF, 2"x10" SOLID WHITE, SPACING AS NEEDED PER AND WHEEL PATH (THERMOPLASTIC)
- 3 THRU-TURN ARROW: WHITE, 27.5 SF (PER CDOT S-627-1) (THERMOPLASTIC)
- 4 EDGE LINE: SOLID YELLOW, 4" WIDE (EPOXY)
- 5 STOP BAR: WHITE, 2' WIDE (THERMOPLASTIC)
- 6 NEW SIGN PANEL WITH NEW POST
- 7 YIELD TEETH: WHITE TRIANGLES, 2' WIDE AND 3' TALL, 3 SF (THERMOPLASTIC)
- 8 CHANNELIZING LINE: SOLID WHITE, 8" WIDE (EPOXY)
- 9 TURN ARROW: WHITE, 16.1 SF (PER CDOT S-627-1) (THERMOPLASTIC)
- 10 RESET SIGN ON NEW POST
- 11 EXISTING SIGN AND POST TO REMAIN
- 12 CHEVRON: WHITE, 8" WIDE, 5 SF, 25' SPACING (THERMOPLASTIC)
- 13 TURN ARROW: WHITE, 16.1 SF (PER CDOT S-627-1) (THERMOPLASTIC)
- 14 STOP MARKING: WHITE, 8' TALL, 7'-4" WIDE (PER CDOT S-627-1) (THERMOPLASTIC)
- 15 RUBBER CURB: 1' WIDE

PROPOSED SIGN LEGEND



EXISTING SIGN LEGEND



K:\DEN_Civil\096481004 - El Paso Constitution\CADD\PlanSheets\RAB\Signing and Striping.dwg Kramer, Michael 10/20/2022 9:04 AM

NO.	REVISION	BY	DATE	APPR.



DESIGNED BY: SMH
 DRAWN BY: TL
 CHECKED BY: CEH
 DATE: 10/20/2022

**AKERS DR & ACCESS ROAD ROUNDABOUT
 EL PASO COUNTY, COLORADO
 ROADWAY CONSTRUCTION DOCUMENTS
 SIGNING AND STRIPING**


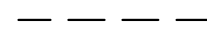


PROJECT NO.
096481004

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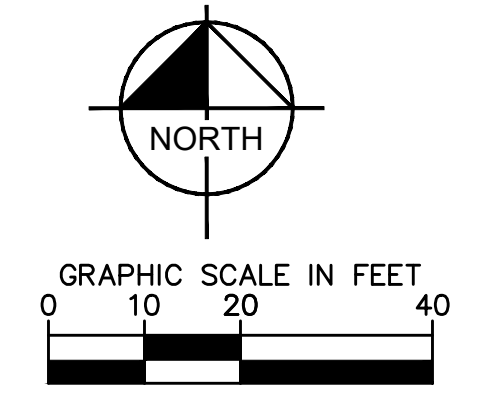
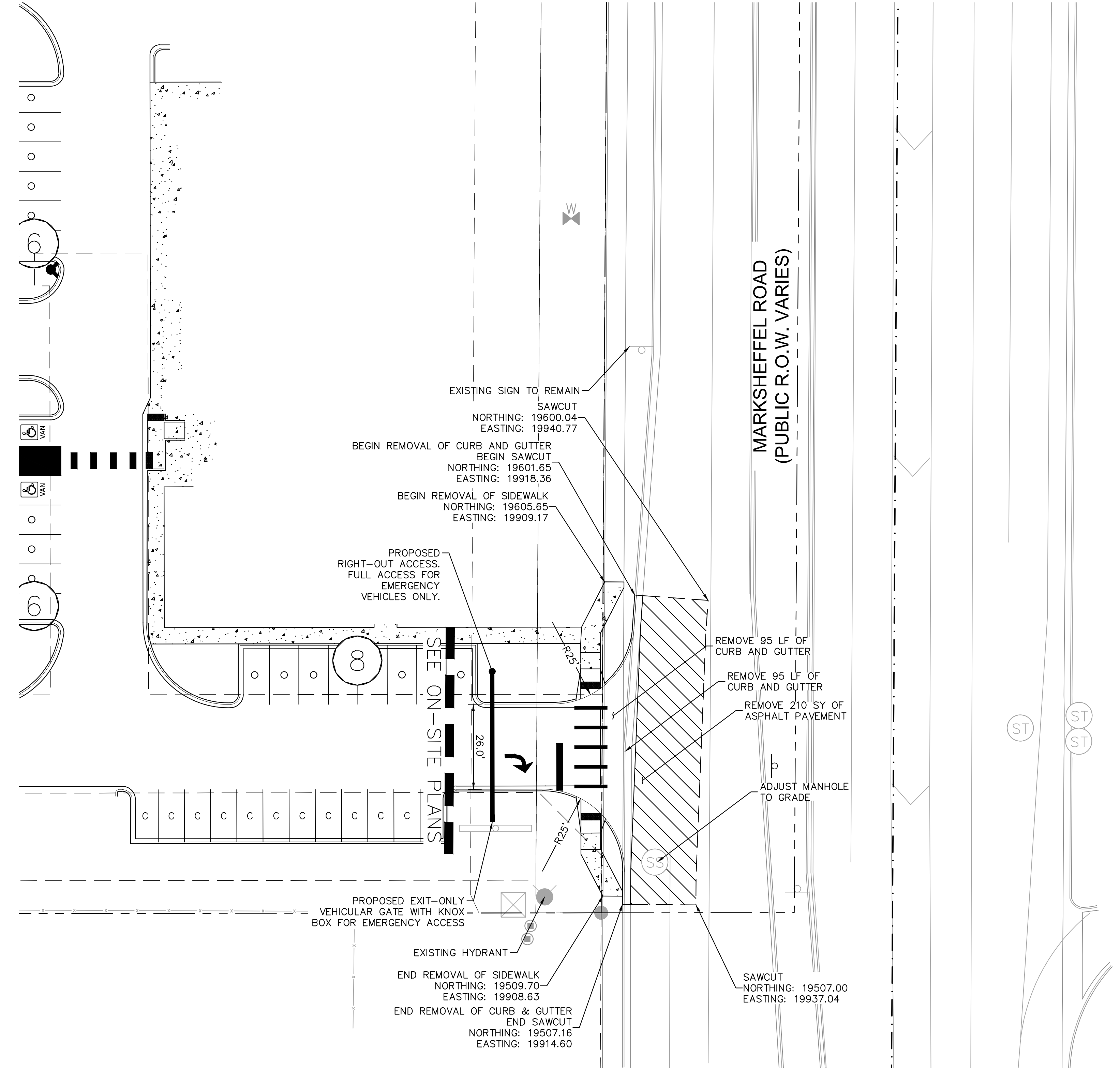
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LEGEND

-  REMOVAL OF ASPHALT PAVEMENT (FULL DEPTH)
-  SAWCUT

NOTES

1. SEE ON-SITE PLANS FOR ADDITIONAL REMOVAL/RESET INFORMATION.
2. PAVEMENT MARKINGS SHALL BE REMOVED BY WATER BLASTING.



811 Know what's below.
Call before you dig.

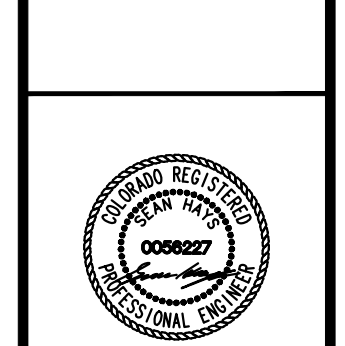
CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

NO.	REVISION	BY	DATE	APPR.

Kimley»Horn
 2022 KIMLEY-HORN AND ASSOCIATES, INC.
 4582 South Ulster Street, Suite 1500
 Denver, CO 80237 (303) 228-2300

DESIGNED BY: SMH
 DRAWN BY: TL
 CHECKED BY: CEH
 DATE: 10/20/2022

**AKERS DR & ACCESS ROAD ROUNDABOUT
EL PASO COUNTY, COLORADO
ROADWAY CONSTRUCTION DOCUMENTS
REMOVAL PLAN - MARKSHEFFEL**



PROJECT NO.
096481004

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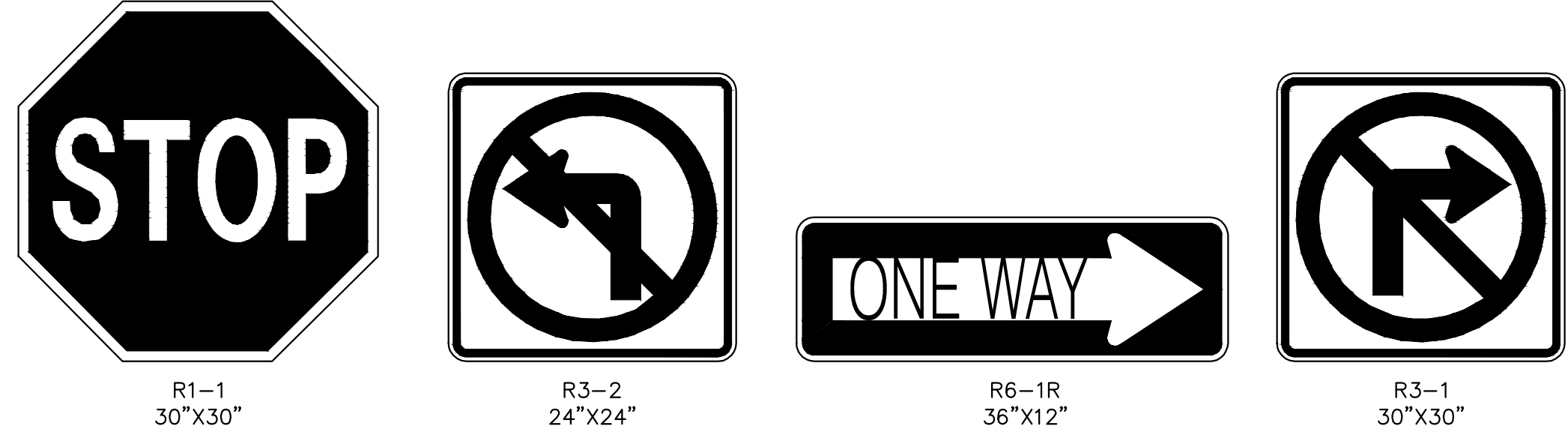
19

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SIGNING AND STRIPING NOTES

- 1 STOP BAR: WHITE, 2' WIDE (THERMOPLASTIC)
- 2 TURN ARROW: WHITE, 16.1 SF (PER CDOT S-627-1) (THERMOPLASTIC)
- 3 NEW SIGN PANEL WITH NEW POST
- 4 EXISTING SIGN PANEL AND POST TO REMAIN
- 5 CROSSWALK MARKING: 10 SF, 1"x10" SOLID WHITE, SPACING AS NEEDED PER AND WHEEL PATH (THERMOPLASTIC)

PROPOSED SIGN LEGEND



EXISTING SIGN LEGEND



- LEGEND:**
- - - SAWCUT
 - PROPOSED HOT MIX ASPHALT
 - ▨ PROPOSED CONCRETE SIDEWALK
 - ▧ PROPOSED CONCRETE CURB RAMP

LINE TABLE

LINE	LENGTH	BEARING
1	10.10	N4°09'19.63"E
3	20.49	N89°54'38.02"E
4	26.35	S89°54'38.02"W
5	10.03	N0°21'16.31"E

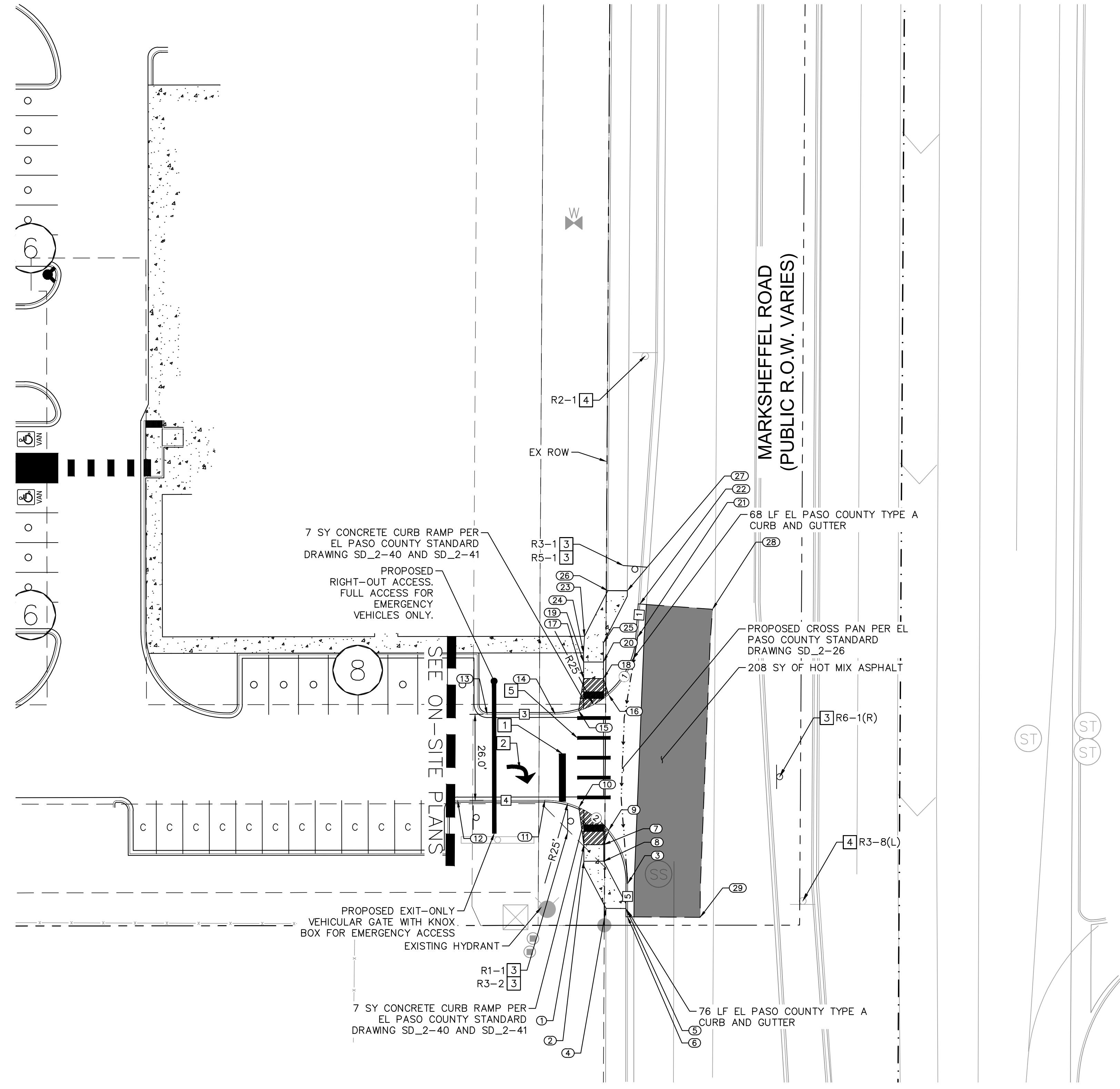
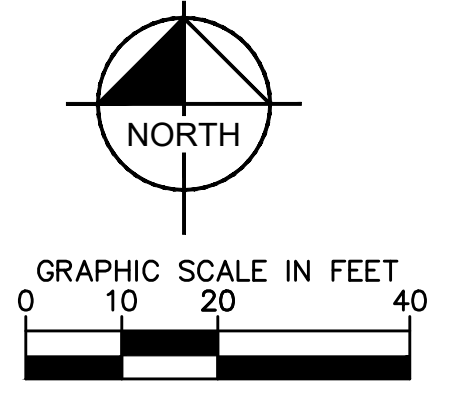
CURVE TABLE

CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
1	25.00'	37.42'	N47°01'59"E	34.02'	85°45'18"	23.21'
2	25.00'	39.46'	N44°52'03"W	35.49'	90°26'38"	25.19'

MARKSHEFFEL POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	19528.9440	19901.9304	6438.3'	RAMP
2	19523.9440	19901.9304	6438.3'	RAMP
3	19517.1896	19915.1668	6437.5'	FL
4	19509.7042	19908.8250	6437.8'	SWK,ME
5	19509.6671	19914.8202	6437.5'	SWK,ME
6	19507.1608	19915.1047	6437.3'	FL,ME
7	19528.9534	19907.9226	6438.2'	RAMP
8	19523.9534	19907.9304	6438.3'	RAMP
9	19533.2971	19909.4158	6438.1'	RAMP
10	19540.1519	19900.4051	6438.3'	RAMP
11	19542.3442	19890.1282	6438.9'	FL
12	19542.3031	19883.7733	6439.9'	FL
13	19568.3171	19872.7435	6440.0'	FL
14	19568.3491	19893.2307	6438.9'	FL
15	19569.3987	19900.3594	6438.8'	RAMP
16	19574.2743	19909.3518	6438.7'	RAMP
17	19579.0906	19901.8443	6439.3'	RAMP
18	19579.1000	19907.8443	6439.2'	RAMP
19	19584.0906	19901.8365	6439.3'	RAMP
20	19584.1000	19907.8365	6439.3'	RAMP
21	19591.5375	19918.1259	6438.7'	FL
22	19601.6102	19918.8578	6438.9'	FL,ME
23	19591.8521	19902.1096	6439.5'	SWK
24	19586.8518	19901.8332	6439.4'	SWK
25	19589.8589	19907.8297	6439.4'	SWK
26	19605.6453	19909.1684	6439.7'	SWK,ME
27	19605.6453	19915.0572	6439.6'	SWK,ME
28	19600.0391	19940.7676	6439.4'	PVMT
29	19506.9983	19937.0351	6437.9'	PVMT

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