

MARKSHEFFEL ROAD - SEGMENT M3

EL PASO COUNTY, COLORADO STREET IMPROVEMENT PLANS

PCD FILE NO. CDR-2413



Know what's below.
Call before you dig.

GENERAL CONSTRUCTION NOTES:

- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK. THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NONEXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR.
- ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
- ALL BACKFILL, SUB-BASE, AND/OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED PER THE SOILS ENGINEER'S RECOMMENDATIONS, AND APPROVED BY EL PASO COUNTY PCD.
- ALL STATIONING IS CENTERLINE OF IMPROVEMENTS UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE FLOW LINE UNLESS OTHERWISE INDICATED AS TOP BACK OF CURB (TBC), ASPHALT (ASP), OR TOP OF INLET OR BOX (TOB).
- ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO EPC ECM APPENDIX K - 1.2C.
- ALL INTERSECTION ACCESSES TO BE CONSTRUCTED WITH A 25 FOOT SIGHT VISIBILITY TRIANGLES IS REQUIRED AND THERE SHALL BE NO OBSTRUCTIONS GREATER THAN 18" VERTICAL IN THIS AREA.
- ALL CULVERTS AND STORM DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE (HDPE), REINFORCED CONCRETE PIPE (RCP). ALL CULVERTS SHALL BE PLACED COMPLETE WITH FLARED END SECTIONS. ADEQUACY OF MATERIAL THICKNESS FOR ANY CSP INSTALLED SHALL BE VERIFIED BY OWNER'S GEOTECHNICAL ENGINEER TO SUPPORT MINIMUM 50 YEAR DESIGN LIFE. CULVERTS MUST CONFORM TO EPC ECM SECTION 3.32 - CULVERTS.
- ASPHALT THICKNESS AND BASE COURSE THICKNESS (COMPACTED) FOR ROADS SHALL BE PER DESIGN REPORT BY OWNER'S GEOTECHNICAL ENGINEER. OWNER'S GEOTECHNICAL ENGINEER TO BE ON SITE AT THE TIME OF ROAD CONSTRUCTION TO EVALUATE SOIL CONDITIONS AND DETERMINE IF ADDITIONAL MEASURES ARE NECESSARY TO ASSURE STABILITY OF THE NEW ROADS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY DEVELOPMENT SERVICES ENGINEERING DIVISION PRIOR TO CONSTRUCTION.

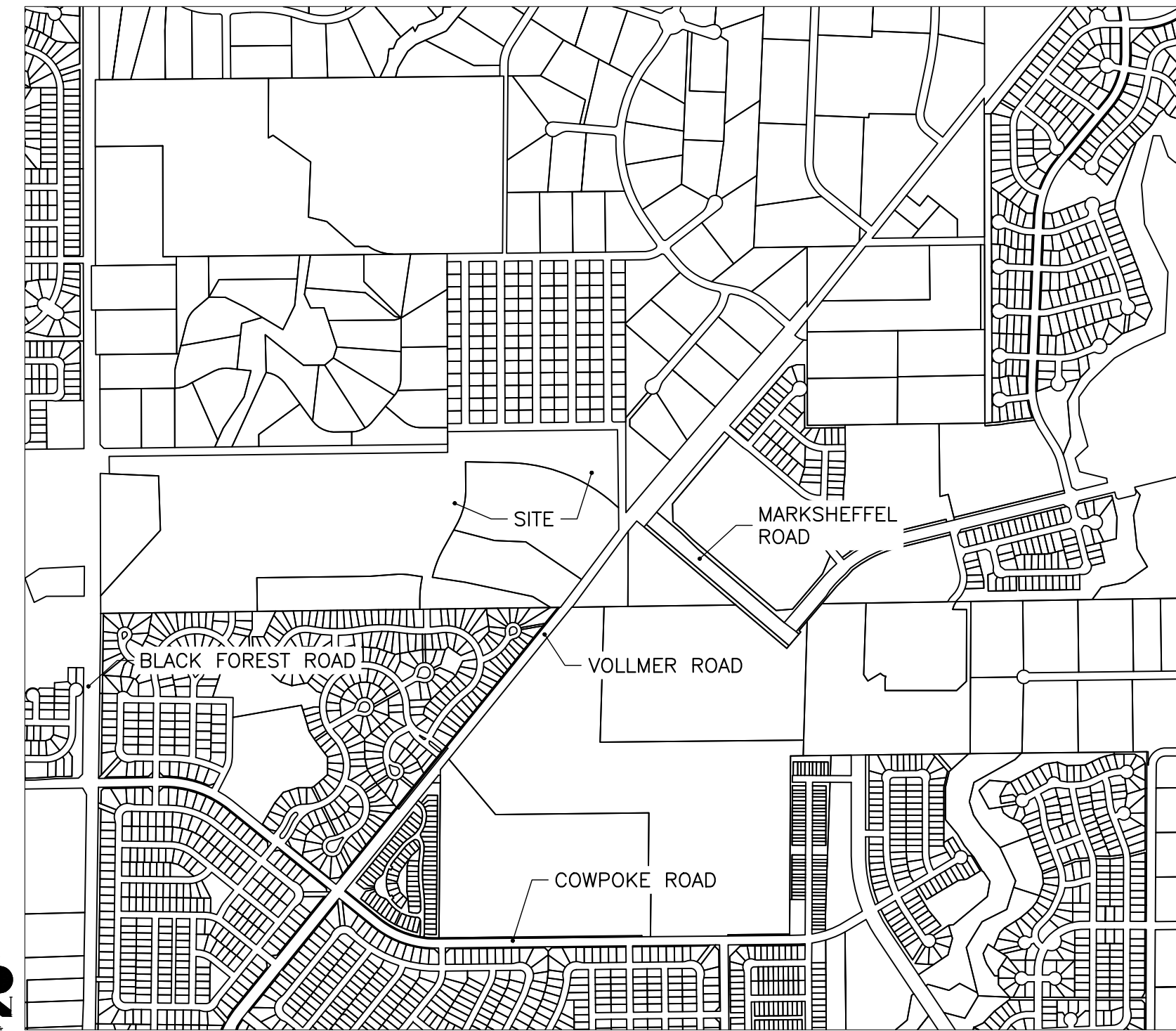
Please update to the 2026 signing and striping notes

SIGNAGE AND STRIPING NOTES:

- ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 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.
- ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
- 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.
- STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
- ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
- 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"
- ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
- 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.

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS:

- 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.
- 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).
- 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:
 - EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
 - COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 - CDOT M & S STANDARDS
- 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.
- 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.
- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- 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.
- 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.
- ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- 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.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- 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.
- SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY PCD AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
- CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DPW, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- 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.



VICINITY MAP
SCALE: 1"=1000'

SHEET INDEX

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CITY STATEMENT

THE CITY OF COLORADO SPRINGS RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN. THE CITY HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY. RESUBMITTAL REQUIRED IF CONSTRUCTION HAS NOT COMMENCED WITHIN 180 DAYS AFTER REVIEW DATE.

UTILITY GRADE REVIEW

CENTERLINE LINE AND GRADE IS REVIEWED FOR CONFORMANCE TO STANDARDS TO ALLOW FOR THE DESIGN AND CONSTRUCTION OF UTILITY MAINS, DRAINAGE FACILITIES DESIGN HAS BEEN CHECKED BY THE DESIGN ENGINEER TO AVOID CONFLICTS WITH UTILITY MAINS. THIS IS NOT A CURB & GUTTER REVIEW AND THE DEVELOPER WILL BE RESPONSIBLE FOR ANY COST DUE TO DESIGN CHANGES PRIOR TO CURB & GUTTER REVIEW. THIS REVIEW EXPIRES IN 180 DAYS.

STREET DESIGN FOR CITY ENGINEERING

UTILITY GRADE REVIEW:	DATE:
CURB & GUTTER REVIEW:	DATE:
FINAL REVIEW:	DATE:
DRAINAGE DESIGN:	DATE:

THIS IS FILED IN ACCORDANCE WITH SECTION 7.7.906 (DRAINAGE ORDINANCE) OF THE CORD OF THE CITY OF COLORADO SPRINGS, 2001 AS AMENDED.

AGENCIES

OWNER/DEVELOPER:	TURKEY CANON QUARRY, LLC 20 BOULDER CRESCENT, SUITE 201 COLORADO SPRINGS, CO 80903 JAMES F. MORLEY (719) 471-1742	WATER & WASTEWATER:	FALCON AREA WATER & WASTEWATER AUTHORITY ENGINEERS - RESPEC 5540 E. TECH CENTER DR. COLORADO SPRINGS, CO 80919 719.227.0072
CIVIL ENGINEER:	ALL TERRAIN ENGINEERING LLC 1004 WEST VAN BUREN STREET COLORADO SPRINGS, CO 80907 RYAN BURNS P.E. 203.577.8656	FIRE DISTRICT:	BLACK FOREST FIRE PROTECTION DISTRICT 11445 TEACOUT ROAD COLORADO SPRINGS, CO 80908 CHIEF BRYAN JACK (719) 495-4300
COUNTY ENGINEERING:	EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, CO 80910 (719) 520-6300	GAS DEPARTMENT:	COLORADO SPRINGS UTILITIES 7710 DURANT DR. COLORADO SPRINGS, CO 80947 TIM WENDT (719) 668-3556
TRAFFIC ENGINEERING:	EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS 3275 AKERS DRIVE COLORADO SPRINGS, CO 80922 (719) 520-6300	ELECTRIC DEPARTMENT:	MOUNTAIN VIEW ELECTRIC 11140 E. WOODMEN ROAD FALCON, CO 80831 (719) 495-2283

BASIS OF BEARINGS

THE NORTH LINE OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 5, TOWNSHIP 13 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, BEING MONUMENTED AT THE NORTHEAST CORNER OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 5, BY A 3-1/4" ALUMINUM CAP STAMPED "LS 10376" AND AT THE NORTH QUARTER CORNER BY A 3-1/4" ALUMINUM CAP STAMPED "LS 4842 1996", BEARING S89°14'13"W.

BENCHMARKS

- THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF BARBARICK SUBDIVISION
NORTHING = 411416.273
EASTING = 235167.071
ELEVATION = 7023.42
- THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT THE NORTHWEST BOUNDARY CORNER OF PAWNEE RANCHEROS SUBDIVISION
NORTHING = 410095.404
EASTING = 235052.131
ELEVATION = 7000.40
- THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDIVISION
NORTHING = 411399.962
EASTING = 233849.817
ELEVATION = 7030.82

OWNER/DEVELOPER STATEMENT

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

JIM MORLEY DATE

TURKEY CANON QUARRY LLC
20 BOULDER CRESCENT, SUITE 200
COLORADO SPRINGS, CO 80903

EL PASO COUNTY 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 THE 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 J. PALMER, P.E. DATE

COUNTY ENGINEER/ECM ADMINISTRATOR

DISTRICT APPROVALS

THESE DOCUMENTS HAVE BEEN REVIEWED AND APPROVED FOR STORM DRAIN AND ASSOCIATED UTILITY SERVICE CONSTRUCTION.

FOR AND ON BEHALF OF THE STONEBRIDGE METRO DISTRICT DATE

ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECT 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 APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLAN 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 THESE DETAILED PLANS AND SPECIFICATIONS.

RYAN E. BURNS, P.E. DATE
COLORADO P.E. 54412
FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

CS JOB NO. STM-REV25-1210
PCD FILE NO. CDR-2413

DESIGN DATA	
SIDEWALKS: _____ WIDTH: _____ ROW WIDTH: _____	
LOCATION: ATTACHED: <input type="checkbox"/> DETACHED: <input type="checkbox"/>	FL-FL: _____
DESIGN SPEED: _____ THICKNESS: _____	
CURB TYPE: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 COMPOSITE SECTION: _____	
	HMA: _____ BASE COURSE: _____



PREPARED FOR:
TURKEY CANON QUARRY INC.
20 BOULDER CRESCENT STREET, SUITE 200
COLORADO SPRINGS, CO 80903
ATTN: JIM MORLEY
(719) 491-3024
JMORLEY387@AOL.COM

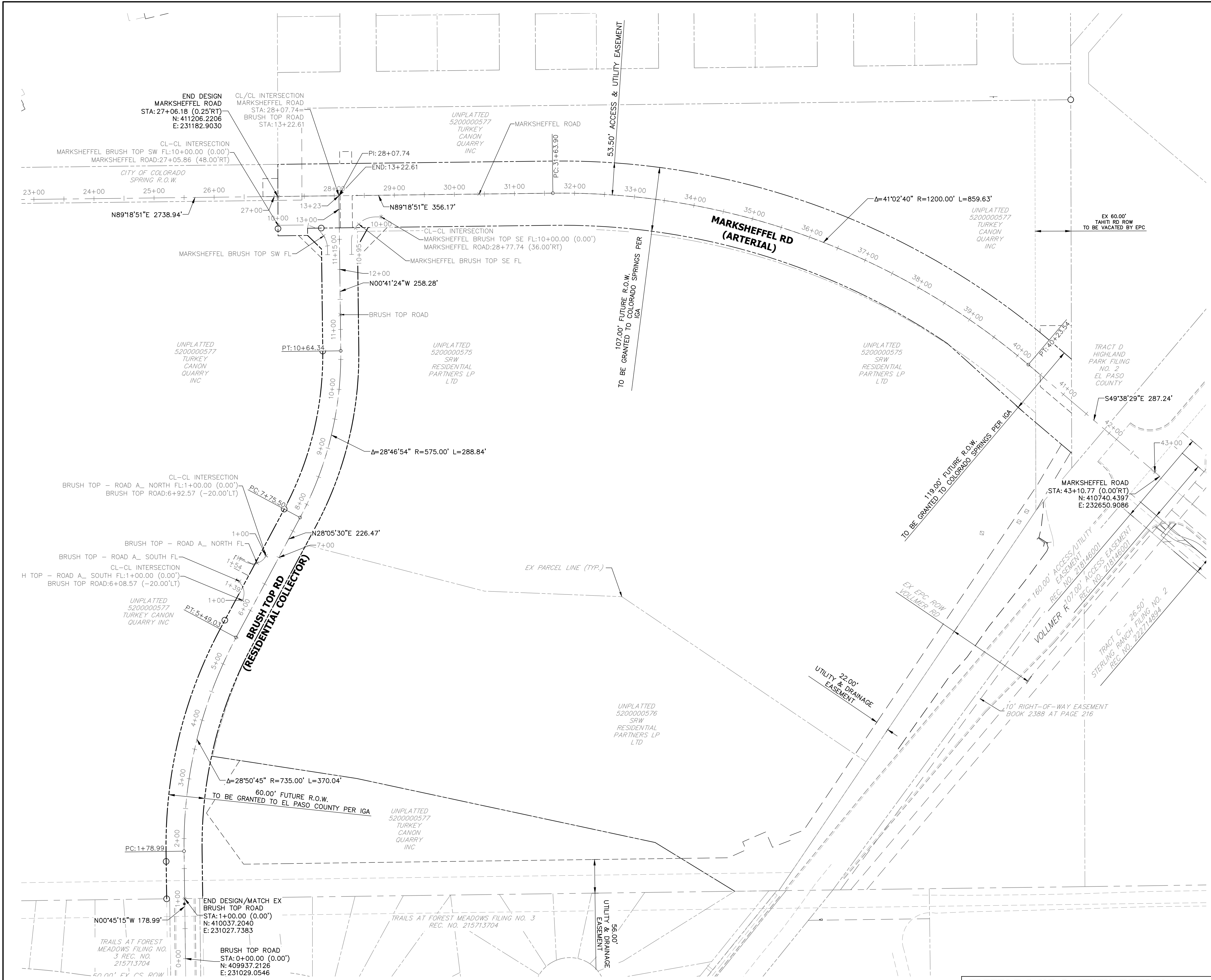
UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, ALL TERRAIN ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

DATE	
REVISION	
DESCRIPTION	

MARKSHEFFEL ROAD - SEGMENT M3
COVER SHEET

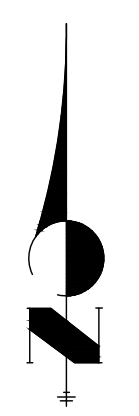
DESIGN: REB
REVIEW: NOJ
DATE: 04/27/2026
H-SCALE: 1"=1000'
V-SCALE: N/A
SHEET
1 OF 15

RYAN E. BURNS, P.E.
54412
5/27/2026
ALLTERRAINENGINEERING.COM

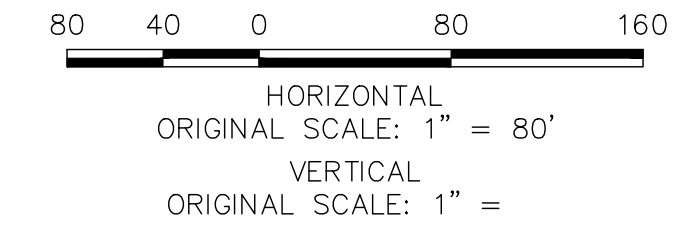


THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

CS JOB NO. STM-REV25-1210
PCD FILE NO. CDR-2413



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



HORIZONTAL ORIGINAL SCALE: 1" = 80'
VERTICAL ORIGINAL SCALE: 1" = 80'

STREET DESIGN FOR CITY ENGINEERING	
UTILITY GRADE REVIEW: _____	DATE: _____
CURB & GUTTER REVIEW: _____	DATE: _____
FINAL REVIEW: _____	DATE: _____
DRAINAGE DESIGN: _____	DATE: _____

THIS IS FILED IN ACCORDANCE WITH SECTION 7.7.906 (DRAINAGE ORDINANCE) OF THE CORD OF THE CITY OF COLORADO SPRINGS, 2001 AS AMENDED.

ENGINEER'S STATEMENT
 PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF ALL TERRAIN ENGINEERING

RYAN E. BURNS, P.E.
 COLORADO P.E. 54412
 FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

DATE _____



ALL TERRAIN
ENGINEERING

PREPARED FOR:
 TURKEY CANYON QUARRY INC.
 20 BOULDER CRESCENT STREET, SUITE 100
 COLORADO SPRINGS, CO 80903
 ATTN: JIM MORLEY
 (719) 491-3024
 JIMORLEY3870@AOL.COM

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, ALL TERRAIN ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

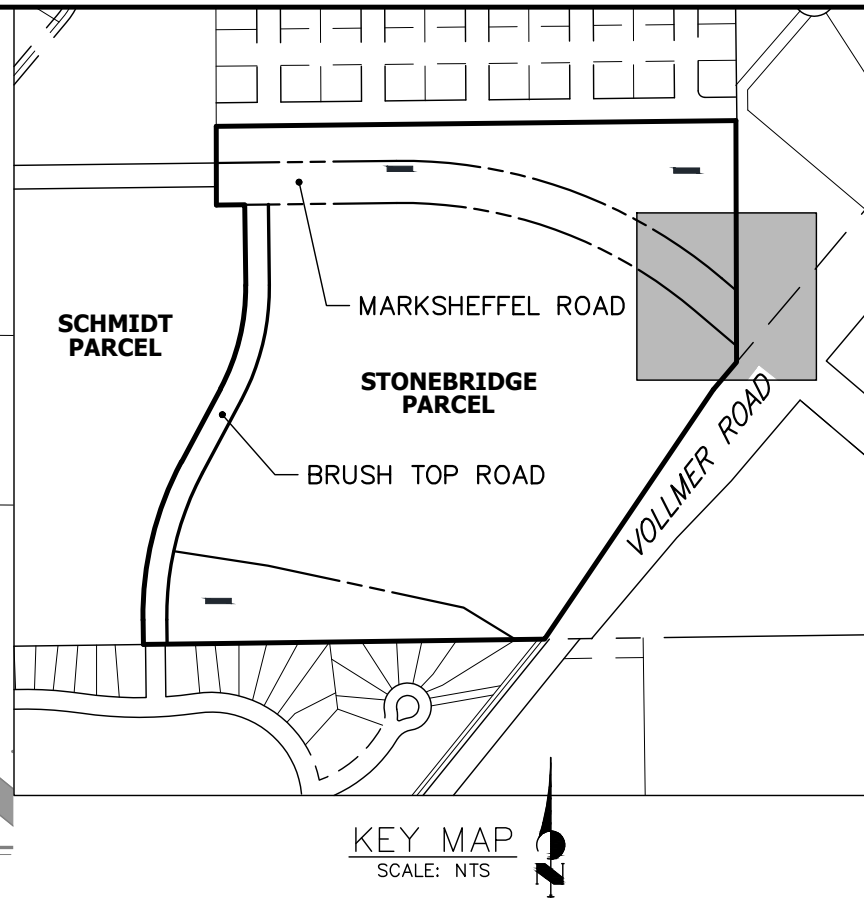
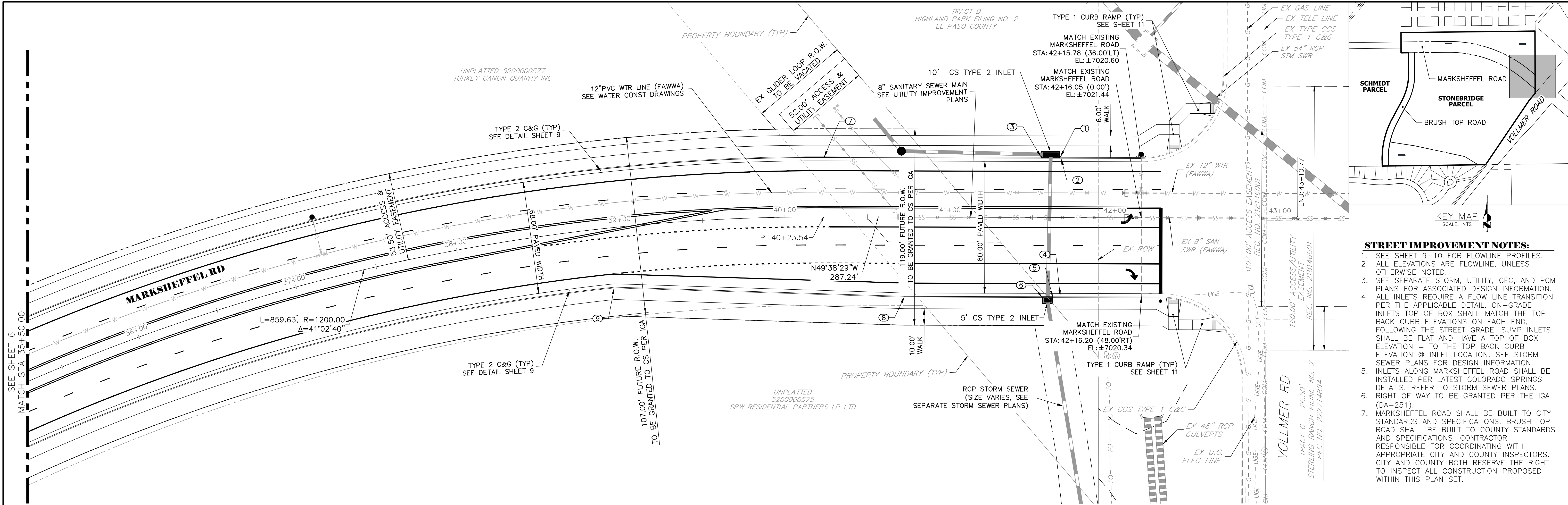
DATE	DESCRIPTION

JOB NO. 24013	LOCATION: EPC
REV. DESCRIPTION	

MARKSHEFFEL ROAD - SEGMENT M3

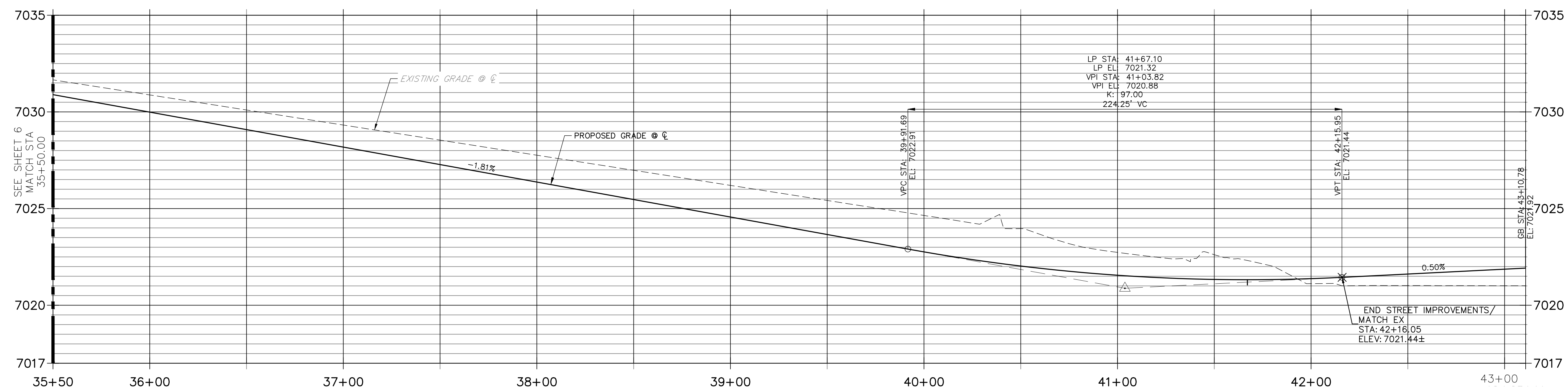
HORIZONTAL CONTROL PLAN

DESIGN: REB
 REVIEW: NOJ
 DATE: 04/27/2026
 H-SCALE: 1"=80'
 V-SCALE: N/A
 SHEET
 4 OF 15



- STREET IMPROVEMENT NOTES:**
- SEE SHEET 9-10 FOR FLOWLINE PROFILES. OTHERWISE NOTED.
 - ALL ELEVATIONS ARE FLOWLINE, UNLESS OTHERWISE NOTED.
 - SEE SEPARATE STORM, UTILITY, GEC, AND PCM PLANS FOR ASSOCIATED DESIGN INFORMATION.
 - ALL INLETS REQUIRE A FLOW LINE TRANSITION PER THE APPLICABLE DETAIL. ON-GRADE INLETS TOP OF BOX SHALL MATCH THE TOP BACK CURB ELEVATIONS ON EACH END, FOLLOWING THE STREET GRADE. SUMP INLETS SHALL BE FLAT AND HAVE A TOP OF BOX ELEVATION @ INLET LOCATION. SEE STORM SEWER PLANS FOR DESIGN INFORMATION.
 - INLETS ALONG MARKSHEFFEL ROAD SHALL BE INSTALLED PER LATEST COLORADO SPRINGS DETAILS. REFER TO STORM SEWER PLANS.
 - RIGHT OF WAY TO BE GRANTED PER THE IGA (DA-251).
 - MARKSHEFFEL ROAD SHALL BE BUILT TO CITY STANDARDS AND SPECIFICATIONS. BRUSH TOP ROAD SHALL BE BUILT TO COUNTY STANDARDS AND SPECIFICATIONS. CONTRACTOR RESPONSIBLE FOR COORDINATING WITH APPROPRIATE CITY AND COUNTY INSPECTORS, CITY AND COUNTY BOTH RESERVE THE RIGHT TO INSPECT ALL CONSTRUCTION PROPOSED WITHIN THIS PLAN SET.

**MARKSHEFFEL ROAD CL PROFILE
STA 35+50.00 TO 43+10.86**



POINT TABULATION					
POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	DESCRIPTION
1	41+66.65	36.50' (LT)	Marksheffel Road	7021.18	INLET EDGE @ TBC
2	41+67.09	36.00' (LT)	Marksheffel Road	7020.51	LP
3	41+55.31	36.50' (LT)	Marksheffel Road	7021.19	INLET EDGE @ TBC
4	41+67.09	48.00' (RT)	Marksheffel Road	7020.27	LP
5	41+62.59	48.50' (RT)	Marksheffel Road	7020.94	INLET EDGE @ TBC
6	41+56.26	48.50' (RT)	Marksheffel Road	7020.95	INLET EDGE @ TBC
7	40+23.54	36.00' (LT)	Marksheffel Road	7021.58	PT
8	40+72.77	48.00' (RT)	Marksheffel Road	7020.74	PI
9	38+92.66	36.00' (RT)	Marksheffel Road	7023.89	PI

DESIGN DATA

SIDEWALKS: _____ WIDTH: _____ ROW WIDTH: _____

LOCATION: ATTACHED: FL-FL: _____

DETACHED:

DESIGN SPEED: _____ THICKNESS: _____

CURB TYPE: 1 2 3 4 5 COMPOSITE SECTION: _____

HMA: _____ BASE COURSE: _____

STREET DESIGN FOR CITY ENGINEERING

UTILITY GRADE REVIEW: _____ DATE: _____

CURB & GUTTER REVIEW: _____ DATE: _____

FINAL REVIEW: _____ DATE: _____

DRAINAGE DESIGN: _____ DATE: _____

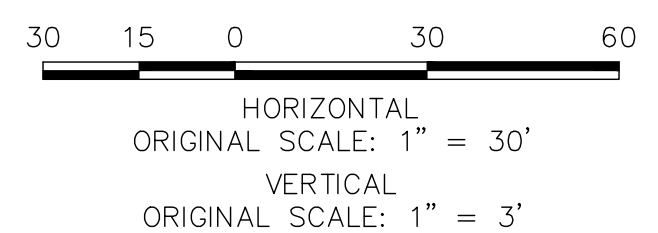
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ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF ALL TERRAIN ENGINEERING

RYAN E. BURNS, P.E.
COLORADO P.E. 54412
FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

DATE: _____



THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

ALL TERRAIN ENGINEERING

PREPARED FOR:
TURKEY CANON QUARRY INC.
20 BOULDER CREST STREET, SUITE 100
COLORADO SPRINGS, CO 80903
ATTN: JIM MORLEY
(719) 491-3024
JMORLEY3870@AOL.COM

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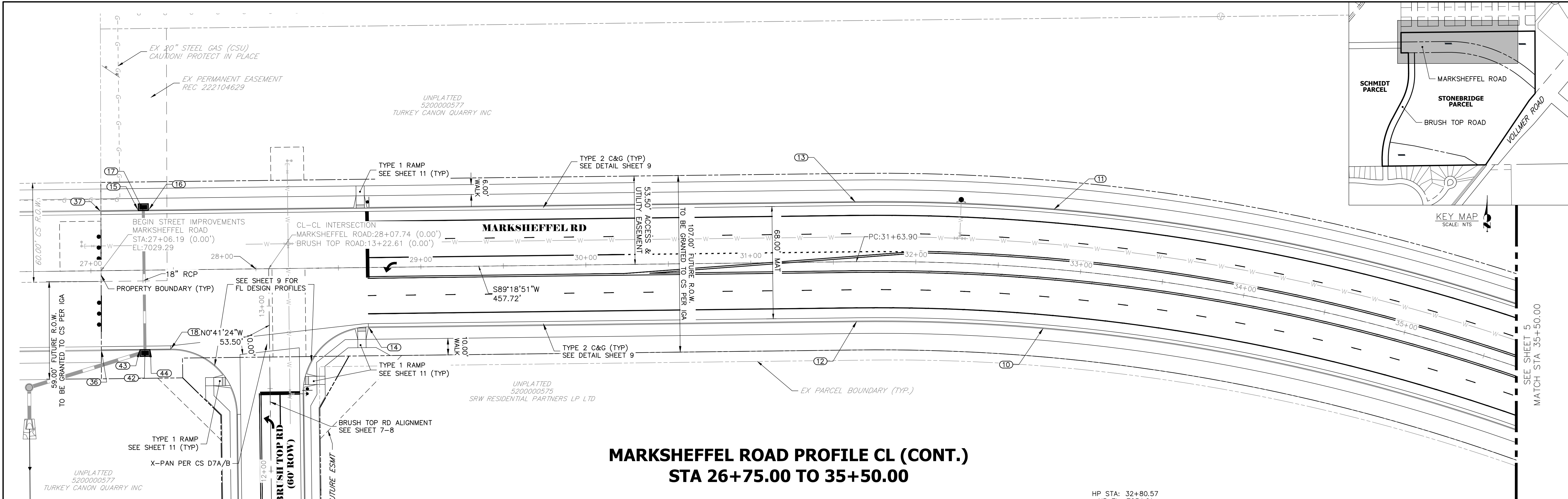
REV	DESCRIPTION	DATE

JOB NO: 24013 LOCATION: EPC

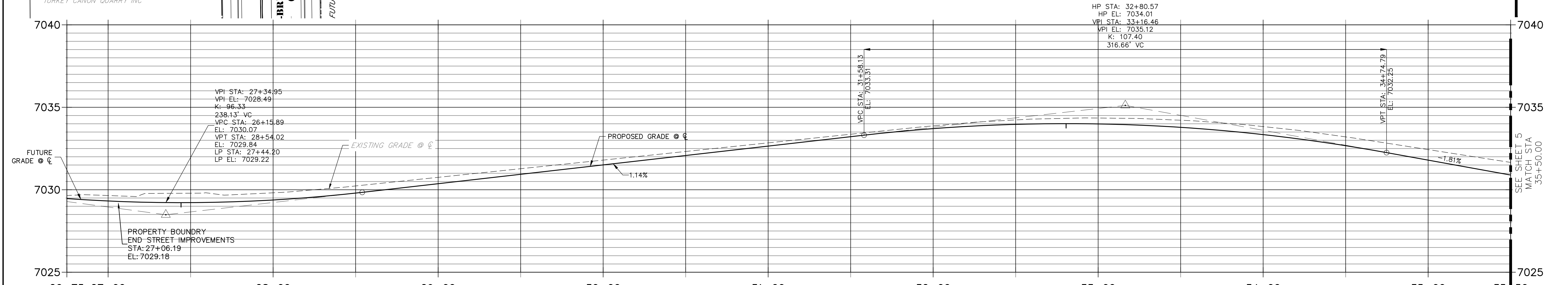
MARKSHEFFEL ROAD - SEGMENT M3

MARKSHEFFEL ROAD

DESIGN: REB
REVIEW: NOJ
DATE: 04/27/2026
H-SCALE: 1" = 30'
V-SCALE: 1" = 3'
SHEET 5 OF 15



**MARKSHEFFEL ROAD PROFILE CL (CONT.)
STA 26+75.00 TO 35+50.00**



STREET IMPROVEMENT NOTES:

- SEE SHEET 9-10 FOR FLOWLINE PROFILES.
- ALL ELEVATIONS ARE FLOWLINE, UNLESS OTHERWISE NOTED.
- SEE SEPARATE STORM, UTILITY, GEC, AND PCM PLANS FOR ASSOCIATED DESIGN INFORMATION.
- ALL INLETS REQUIRE A FLOW LINE TRANSITION PER THE APPLICABLE DETAIL. ON-GRADE INLETS TOP OF BOX SHALL MATCH THE TOP BACK CURB ELEVATIONS ON EACH END, FOLLOWING THE STREET GRADE. SUMP INLETS SHALL BE FLAT AND HAVE A TOP OF BOX ELEVATION = TO THE TOP BACK CURB ELEVATION @ INLET LOCATION. SEE STORM SEWER PLANS FOR DESIGN INFORMATION.
- INLETS ALONG MARKSHEFFEL ROAD SHALL BE INSTALLED PER LATEST COLORADO SPRINGS DETAILS. REFER TO STORM SEWER PLANS.
- RIGHT OF WAY TO BE GRANTED PER THE IGA (DA-251).
- MARKSHEFFEL ROAD SHALL BE BUILT TO CITY STANDARDS AND SPECIFICATIONS. BRUSH TOP ROAD SHALL BE BUILT TO COUNTY STANDARDS AND SPECIFICATIONS. CONTRACTOR RESPONSIBLE FOR COORDINATING WITH APPROPRIATE CITY AND COUNTY INSPECTORS. CITY AND COUNTY BOTH RESERVE THE RIGHT TO INSPECT ALL CONSTRUCTION PROPOSED WITHIN THIS PLAN SET.

POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	DESCRIPTION
10	32+80.57	36.00' (RT)	Marksheffel Road	7033.20	HP
11	32+80.57	36.00' (LT)	Marksheffel Road	7033.20	HP
12	31+63.90	36.00' (RT)	Marksheffel Road	7032.57	PC
13	31+63.90	36.00' (LT)	Marksheffel Road	7032.57	PC
14	28+67.74	36.00' (RT)	Marksheffel Road	7029.15	PT
15	27+29.05	36.50' (LT)	Marksheffel Road	7029.09	INLET EDGE @ TBC
16	27+35.38	36.50' (LT)	Marksheffel Road	7029.08	INLET EDGE @ TBC
17	27+32.31	36.00' (LT)	Marksheffel Road	7028.42	LP
18	27+47.74	48.00' (RT)	Marksheffel Road	7028.13	PC
36	27+05.86	48.00' (RT)	Marksheffel Road	7029.39	BEGIN T2 C&G

POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	DESCRIPTION
37	27+06.51	36.00' (LT)	Marksheffel Road	7028.49	BEGIN T2 C&G
42	12+74.62	75.43' (LT)	Brush Top Road	7028.18	LP
43	12+74.12	78.69' (LT)	Brush Top Road	7028.85	INLET EDGE @ TBC
44	12+74.12	72.36' (LT)	Brush Top Road	7028.84	INLET EDGE @ TBC

DESIGN DATA

SIDEWALKS: _____ WIDTH: _____ ROW WIDTH: _____

LOCATION: ATTACHED: FL-FL: _____

DETACHED:

DESIGN SPEED: _____ THICKNESS: _____

CURB TYPE: 1 2 3 4 5 COMPOSITE SECTION: _____

HMA: _____ BASE COURSE: _____

STREET DESIGN FOR CITY ENGINEERING

UTILITY GRADE REVIEW: _____ DATE: _____

CURB & GUTTER REVIEW: _____ DATE: _____

FINAL REVIEW: _____ DATE: _____

DRAINAGE DESIGN: _____ DATE: _____

THIS IS FILED IN ACCORDANCE WITH SECTION 7.7.906 (DRAINAGE ORDINANCE) OF THE CORD OF THE CITY OF COLORADO SPRINGS, 2001 AS AMENDED.

ENGINEER'S STATEMENT

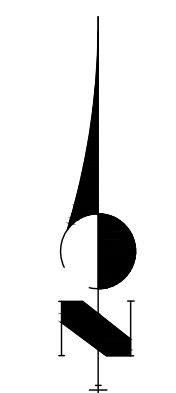
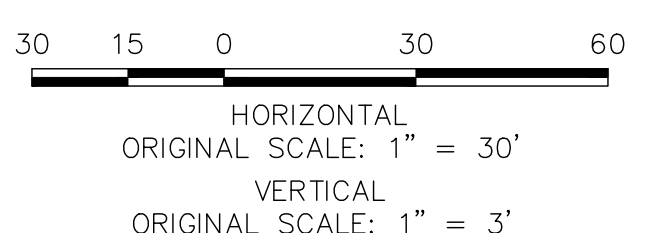
PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF ALL TERRAIN ENGINEERING

RYAN E. BURNS, P.E.
COLORADO P.E. 54412
FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

DATE: _____



THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.



ALL TERRAIN ENGINEERING

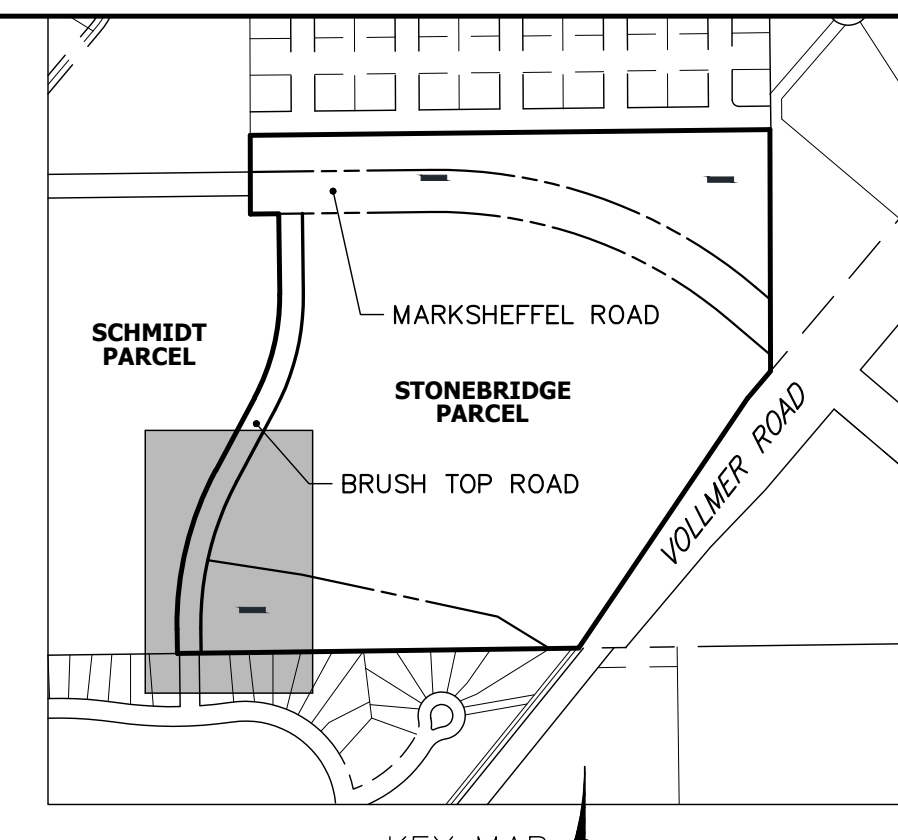
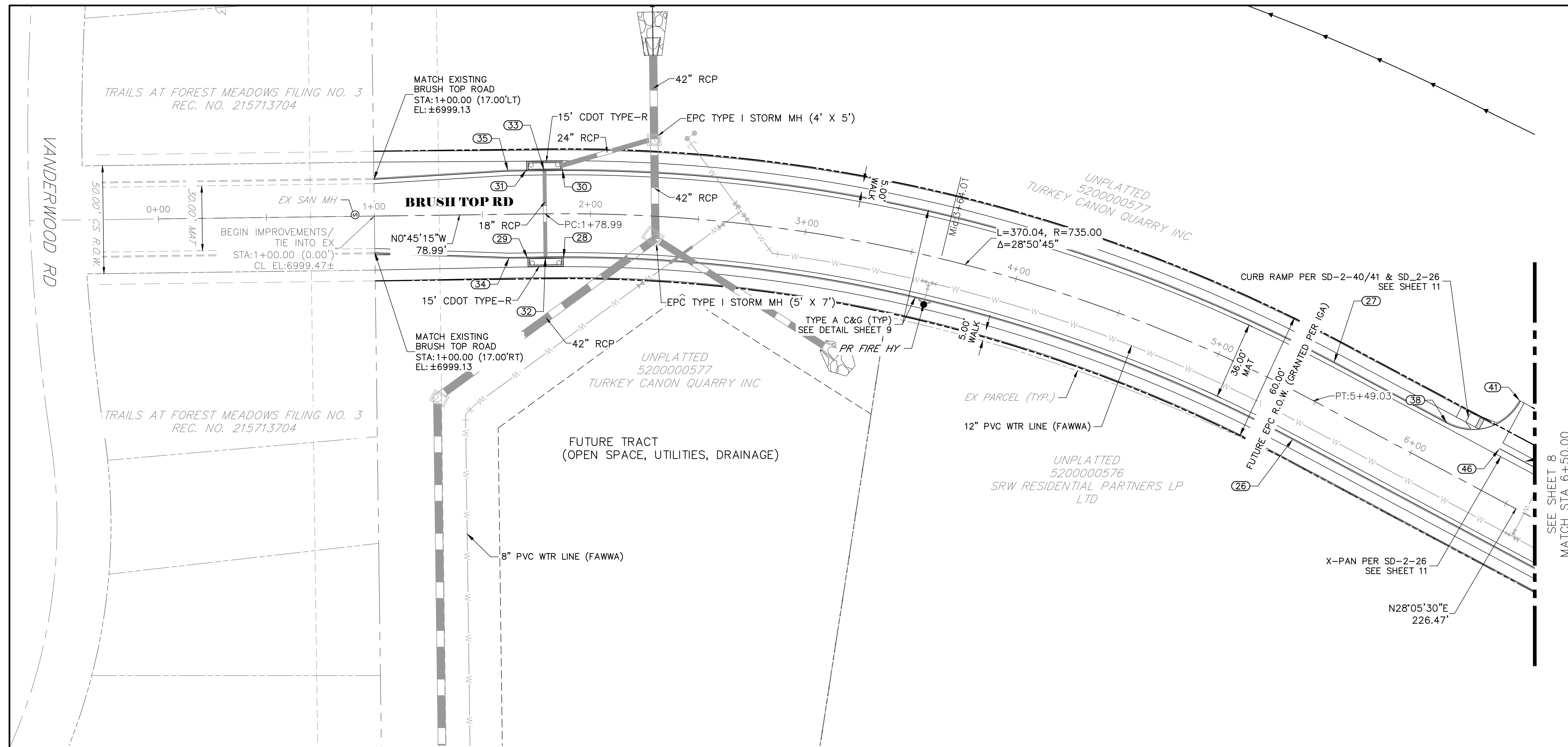
PREPARED FOR:
TURKEY CANON QUARRY INC.
20 BOULDER CREST STREET, SUITE 100
COLORADO SPRINGS, CO 80903
ATTN: JIM MORLEY
(719) 491-3024
JMORLEY3870@AOL.COM

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, ALL TERRAIN ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

JOB NO.	DATE	DESCRIPTION
24013		

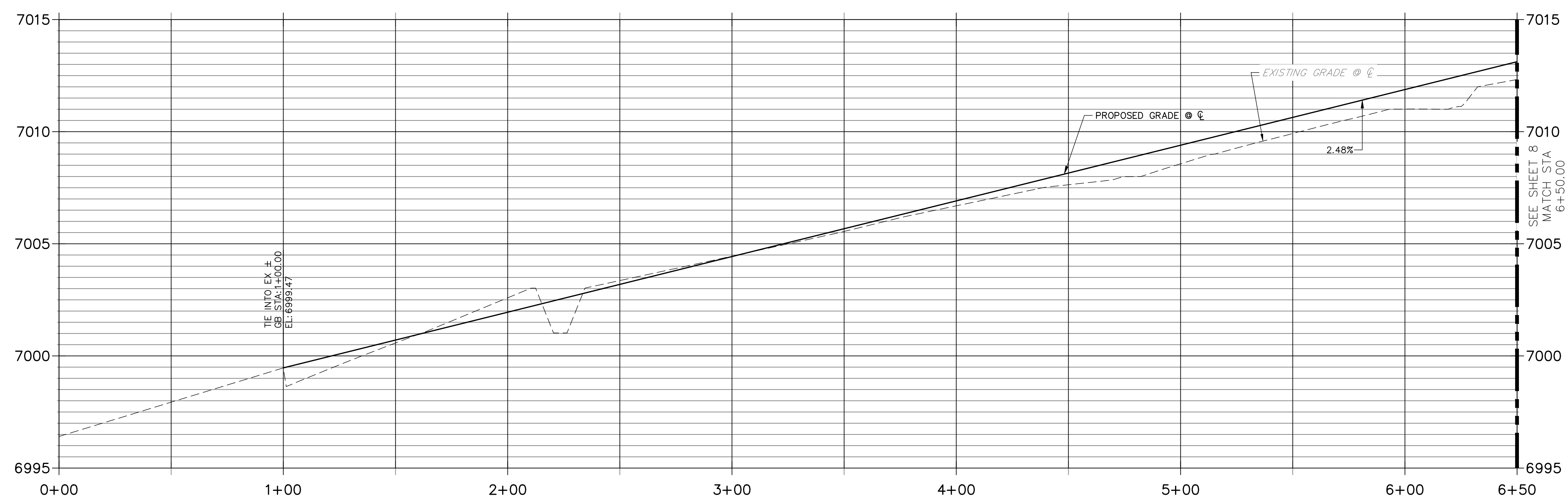
MARKSHEFFEL ROAD - SEGMENT M3

MARKSHEFFEL ROAD (CONT.)

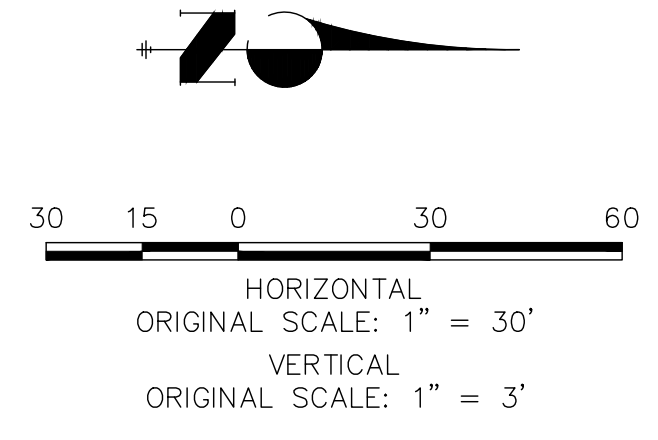


- STREET IMPROVEMENT NOTES:**
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**BRUSH TOP ROAD CL PROFILE
STA 0+00.00 TO 6+50.00**



POINT TABULATION					
POINT NUMBER	STATION	OFFSET	ALIGNMENT	ELEVATION	DESCRIPTION
26	5+49.03	20.00' (RT)	Brush Top Road	7010.13	PT
27	5+49.03	20.00' (LT)	Brush Top Road	7010.13	PT
28	1+87.40	20.50' (RT)	Brush Top Road	7001.65	INLET EDGE @ TBC
29	1+70.82	20.50' (RT)	Brush Top Road	7001.24	INLET EDGE @ TBC
30	1+86.94	20.50' (LT)	Brush Top Road	7001.64	INLET EDGE @ TBC
31	1+70.82	20.50' (LT)	Brush Top Road	7001.24	INLET EDGE @ TBC
32	1+78.99	20.00' (RT)	Brush Top Road	7000.94	PC
33	1+78.99	20.00' (LT)	Brush Top Road	7000.94	PC
34	1+62.27	20.00' (RT)	Brush Top Road	7000.54	PI/END TAPER
35	1+62.27	20.00' (LT)	Brush Top Road	7000.53	PI/END TAPER
38	6+08.57	20.00' (LT)	Brush Top Road	7011.66	PCR
41	6+33.57	45.00' (LT)	Brush Top Road	7012.66	PCR
46	6+35.57	21.00' (LT)	Brush Top Road	7012.39	FL-FL



THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

ENGINEER'S STATEMENT
 PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF ALL TERRAIN ENGINEERING

RYAN E. BURNS, P.E.
 COLORADO P.E. 54412
 FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

ALL TERRAIN ENGINEERING

PREPARED FOR:
 TURKEY CANON QUARRY INC.
 20 BOULDER CRESCENT STREET, SUITE 100
 COLORADO SPRINGS, CO 80903
 ATTN: JIM MORLEY
 (719) 491-3024
 JIMORLEY3870@AOL.COM

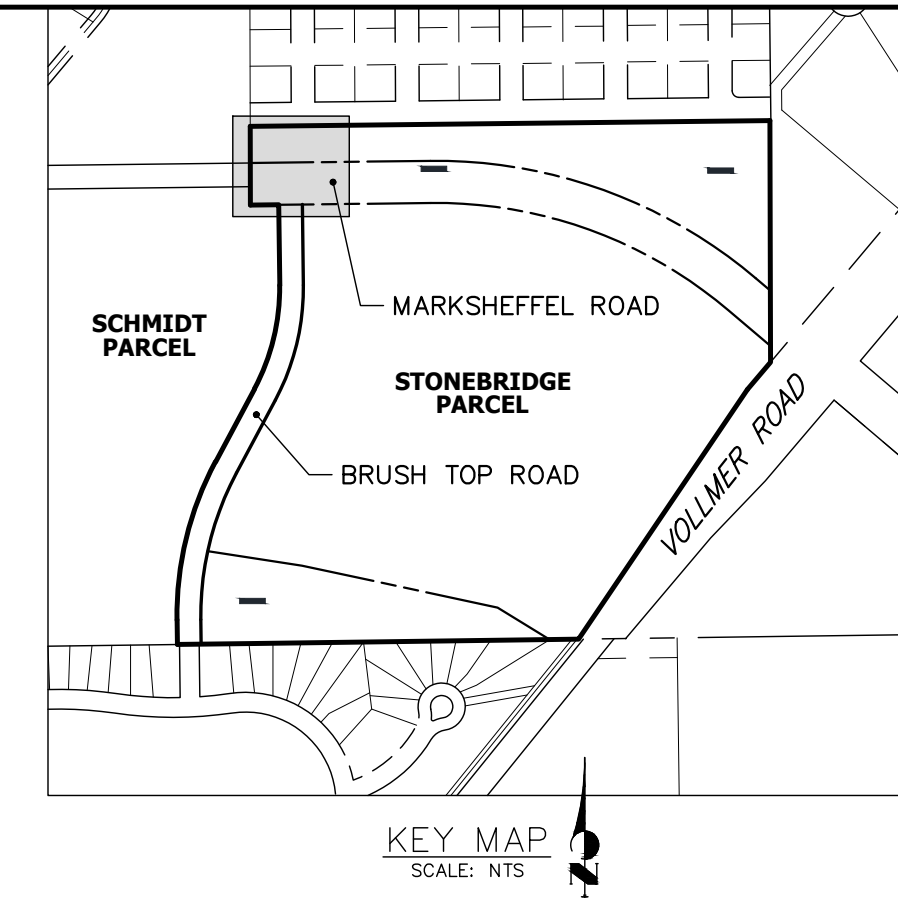
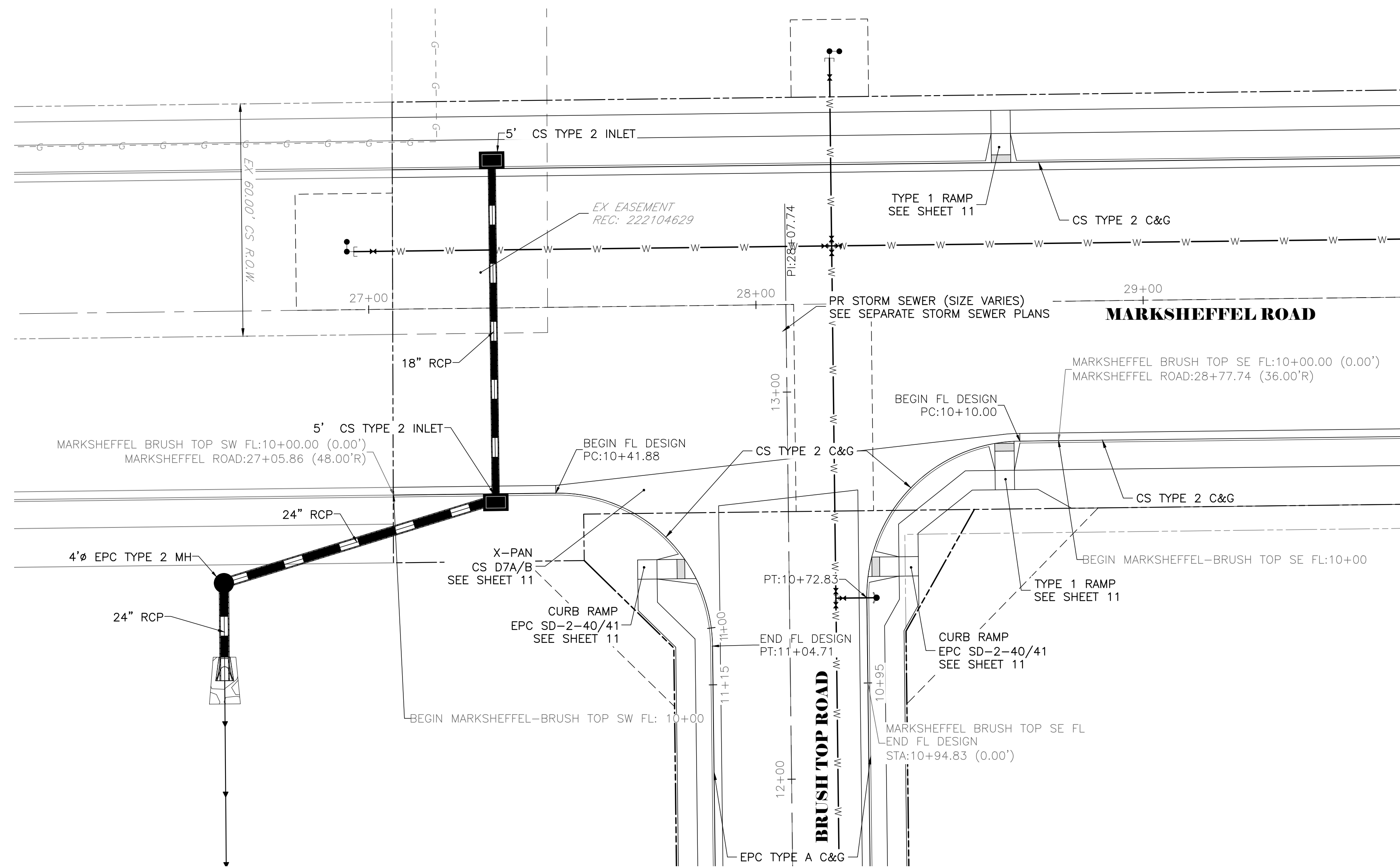
UNLESS SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, ALL TERRAIN ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

JOB NO: 24013
 LOCATION: EPC
 REV DESCRIPTION
 DATE

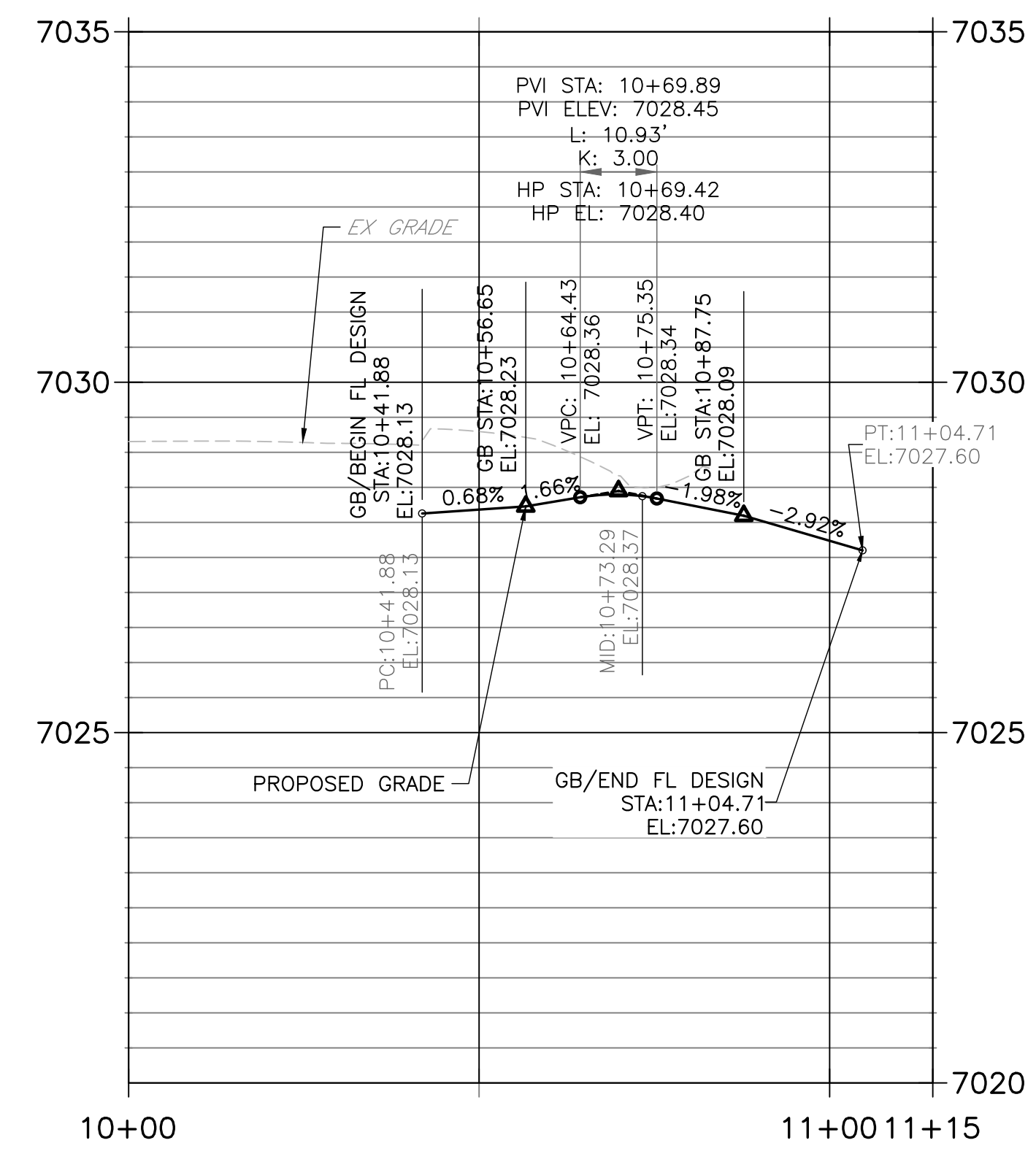
MARKSHEFFEL ROAD - SEGMENT M3
 BRUSH TOP ROAD

DESIGN: REB
 REVIEW: NOJ
 DATE: 04/27/2026
 (H)-SCALE: 1" = 30'
 (V)-SCALE: 1" = 3'

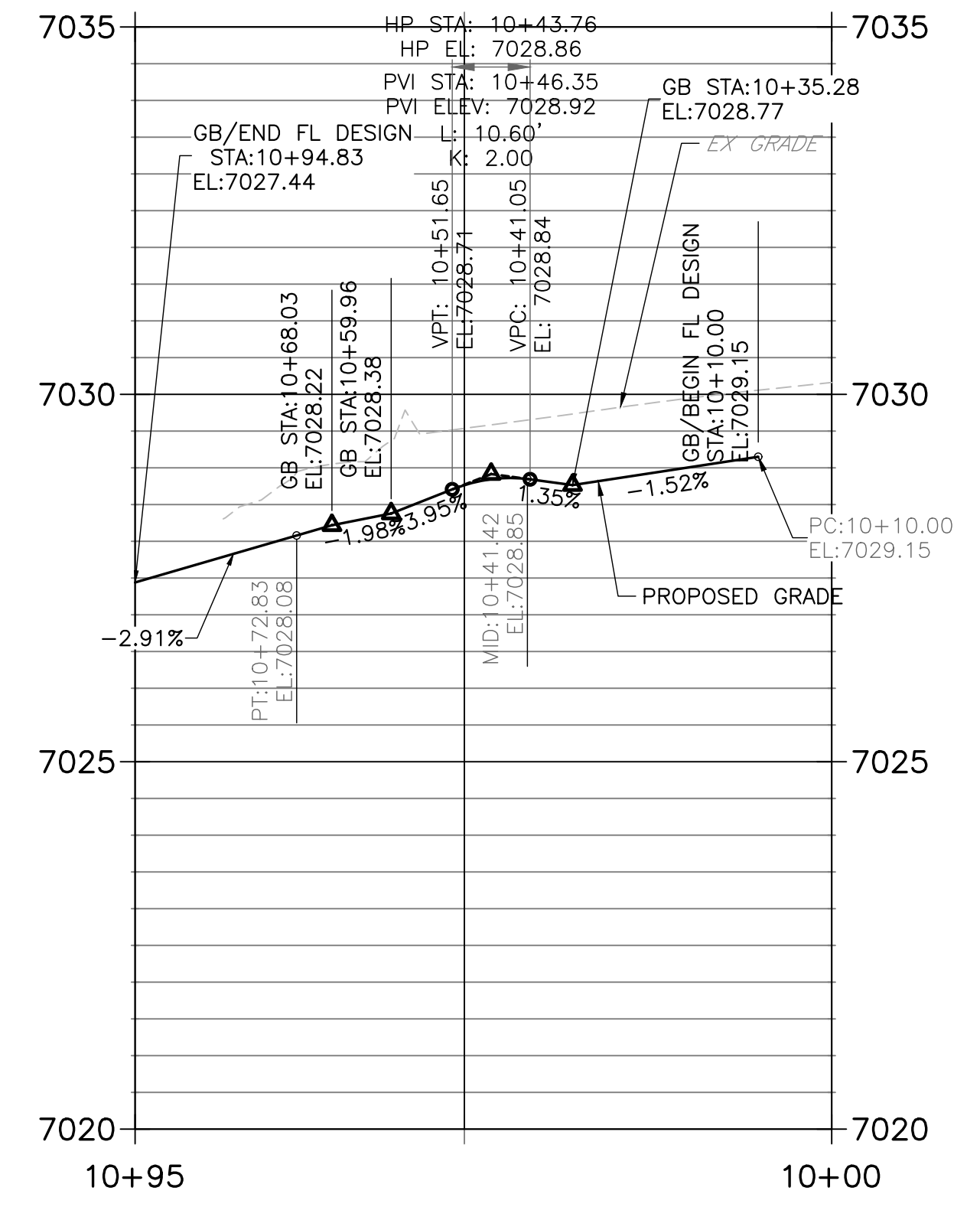
SHEET
 7 OF 15



**MARKSHEFFEL-BRUSH TOP SW FL
STA 10+00.00 TO 11+14.71**



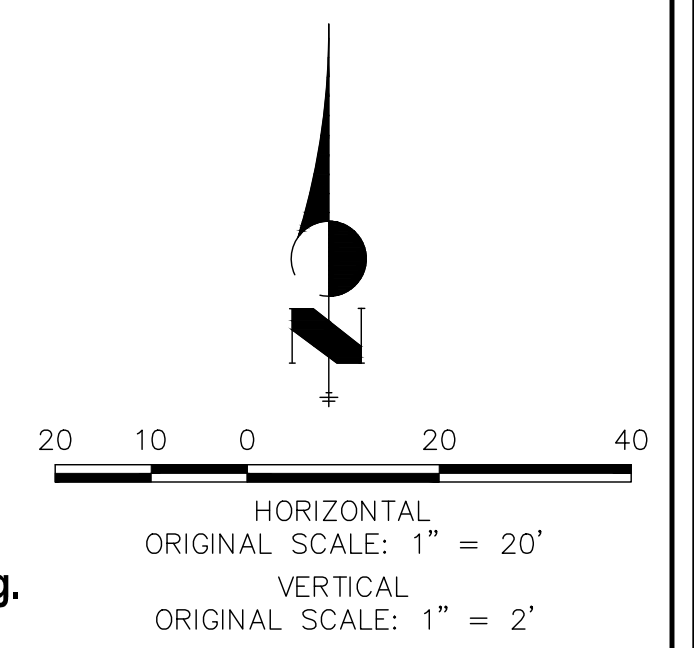
**MARKSHEFFEL-BRUSH TOP SE FL
STA 10+00.00 TO 10+94.83**



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Know what's below.
Call before you dig.



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 PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF ALL TERRAIN ENGINEERING
 RYAN E. BURNS, P.E.
 COLORADO P.E. 54412
 FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

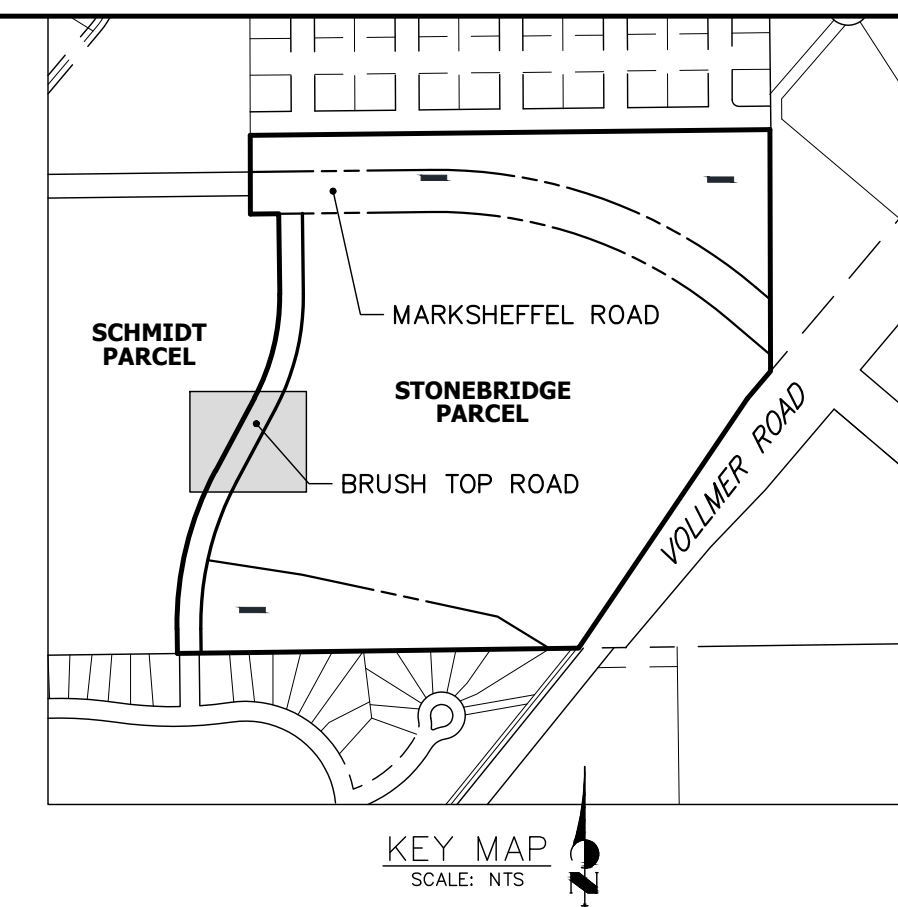
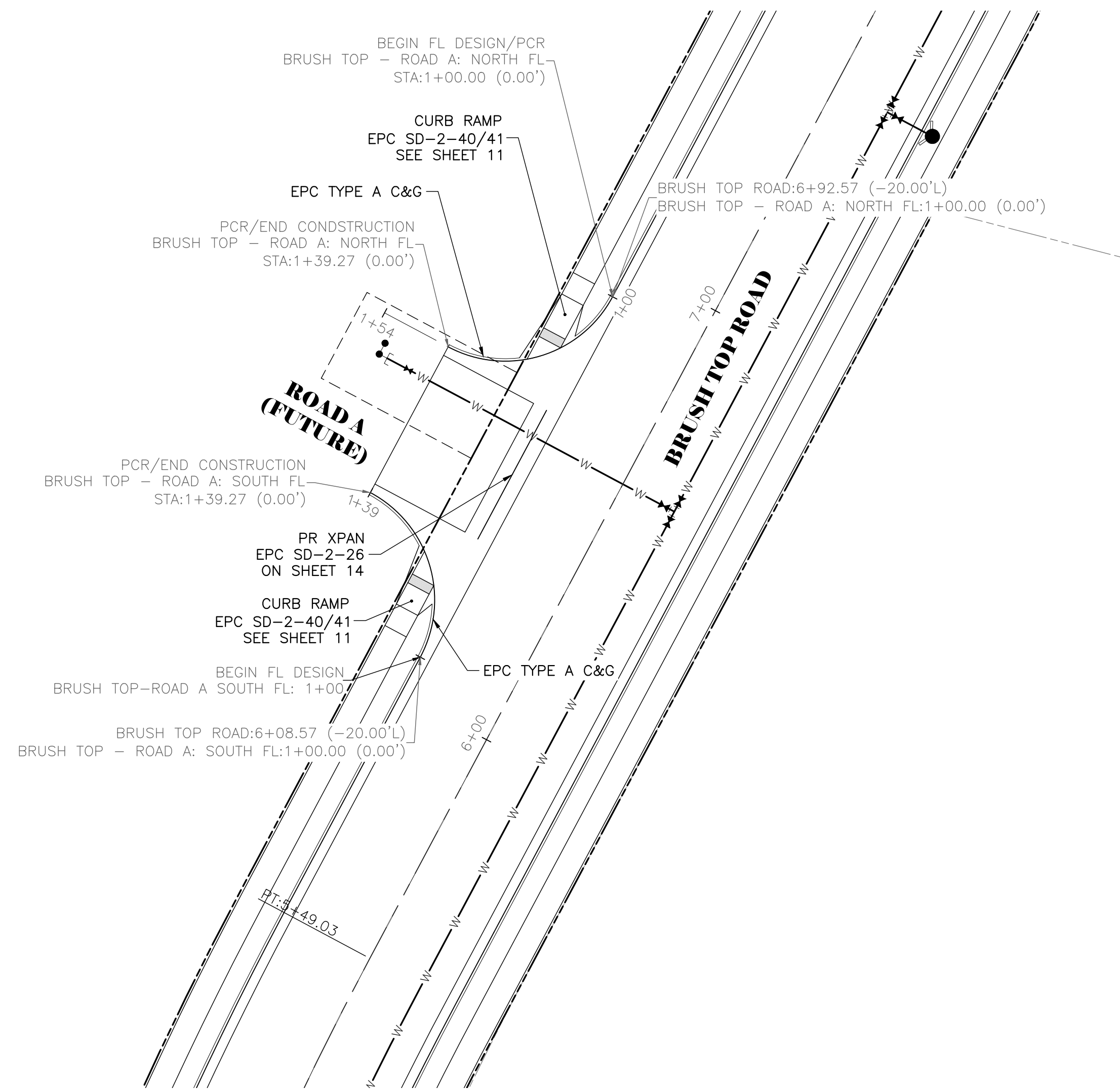
ALL TERRAIN ENGINEERING
 PREPARED FOR:
 TURKEY CANON QUARRY INC.
 20 BOULDER CREST STREET, SUITE 100
 COLORADO SPRINGS, CO 80903
 ATTN: JIM MORLEY
 (719) 491-3024
 JIMORLEY3870@AOL.COM

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REV	DESCRIPTION	DATE

MARKSHEFFEL ROAD - SEGMENT M3
 FLOWLINE PROFILES

DESIGN: REB
 REVIEW: NOJ
 DATE: 04/27/2026
 H-SCALE: 1" = 20'
 V-SCALE: 1" = 2'
 SHEET
 9 OF 15

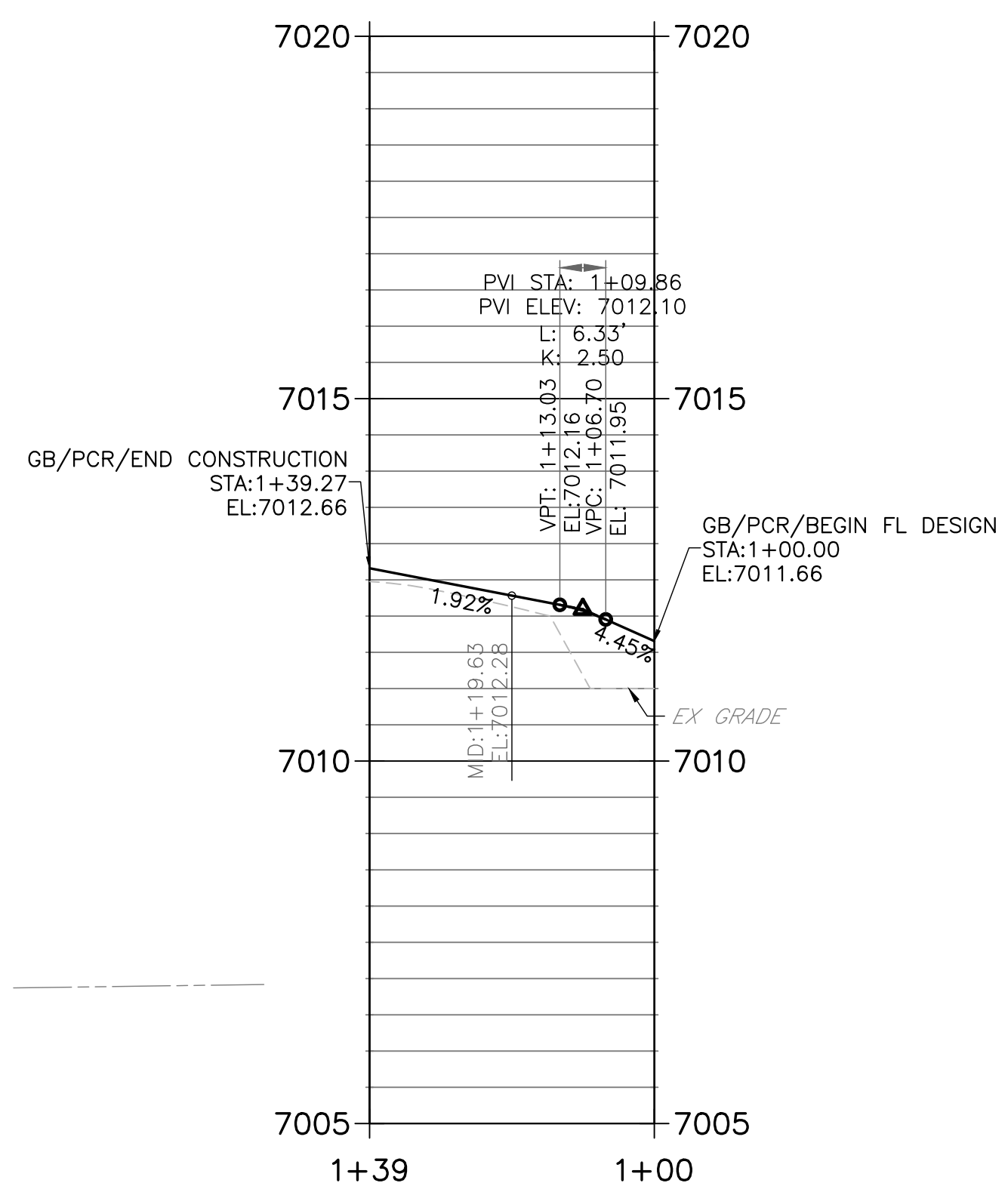


TERRAIN ENGINEERING
 RYAN E. BURNS, P.E.
 550 391 1000 - RYAN@TERRAINENGINEERING.COM
 303 577 8888 - RYAN@TERRAINENGINEERING.COM

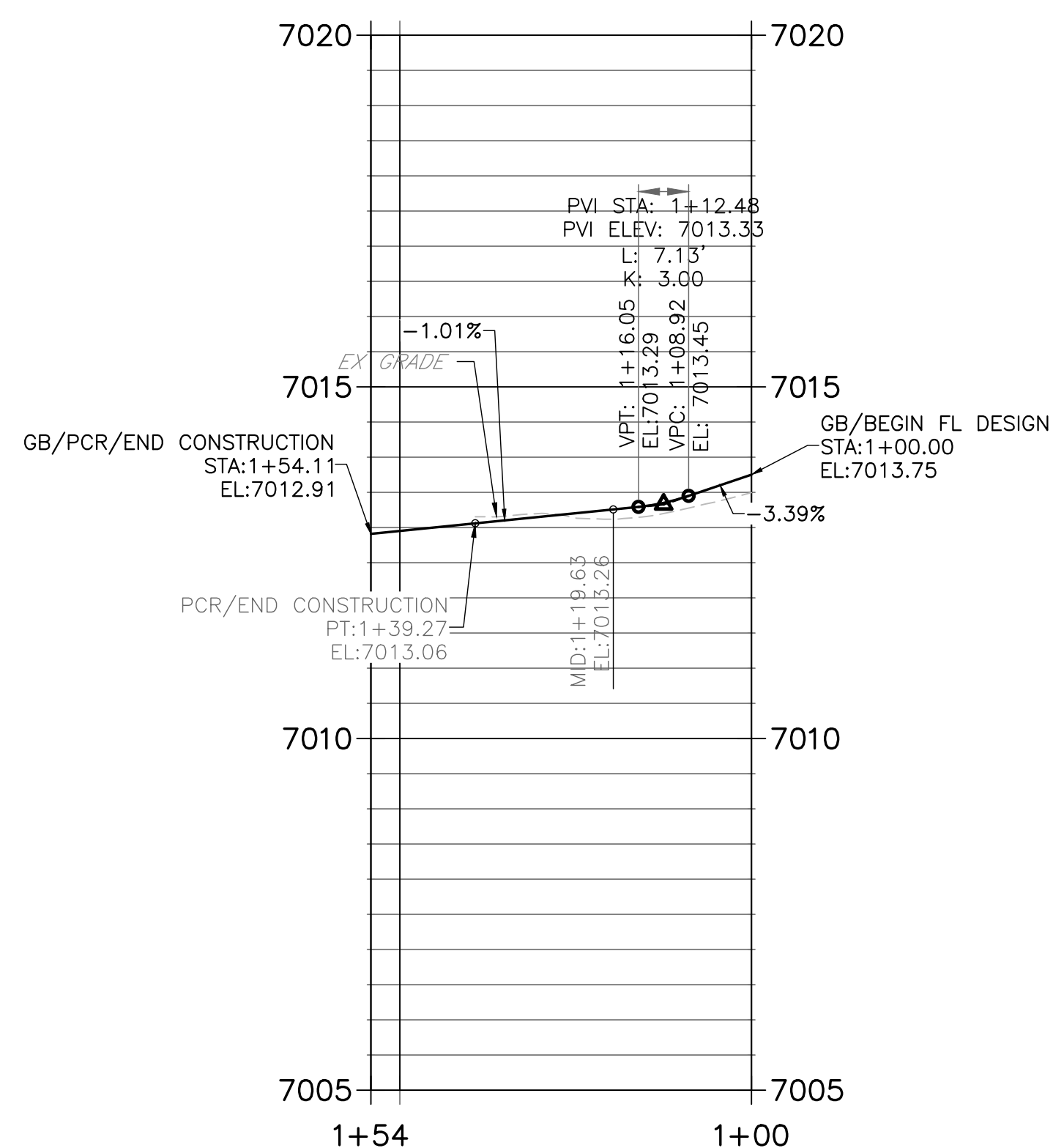
PREPARED FOR:
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 20 BOULDER CRESCENT STREET, SUITE 100
 COLORADO SPRINGS, CO 80903
 ATTN: JIM MORLEY
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 JMORLEY3870@AOL.COM

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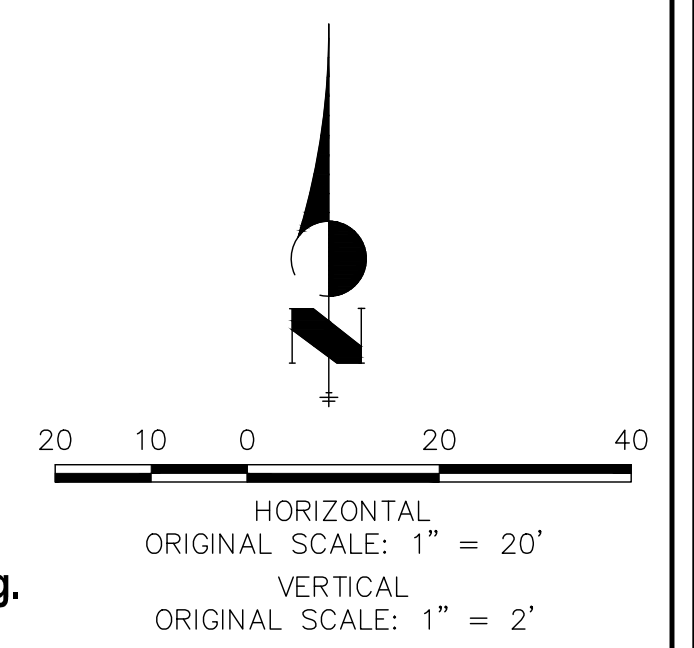
**BRUSH TOP - ROAD A SOUTH FL
 STA 1+00.00 TO 1+39.27**



**BRUSH TOP - ROAD A NORTH FL
 STA 1+00.00 TO 1+54.11**



Know what's below.
 Call before you dig.



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ENGINEER'S STATEMENT
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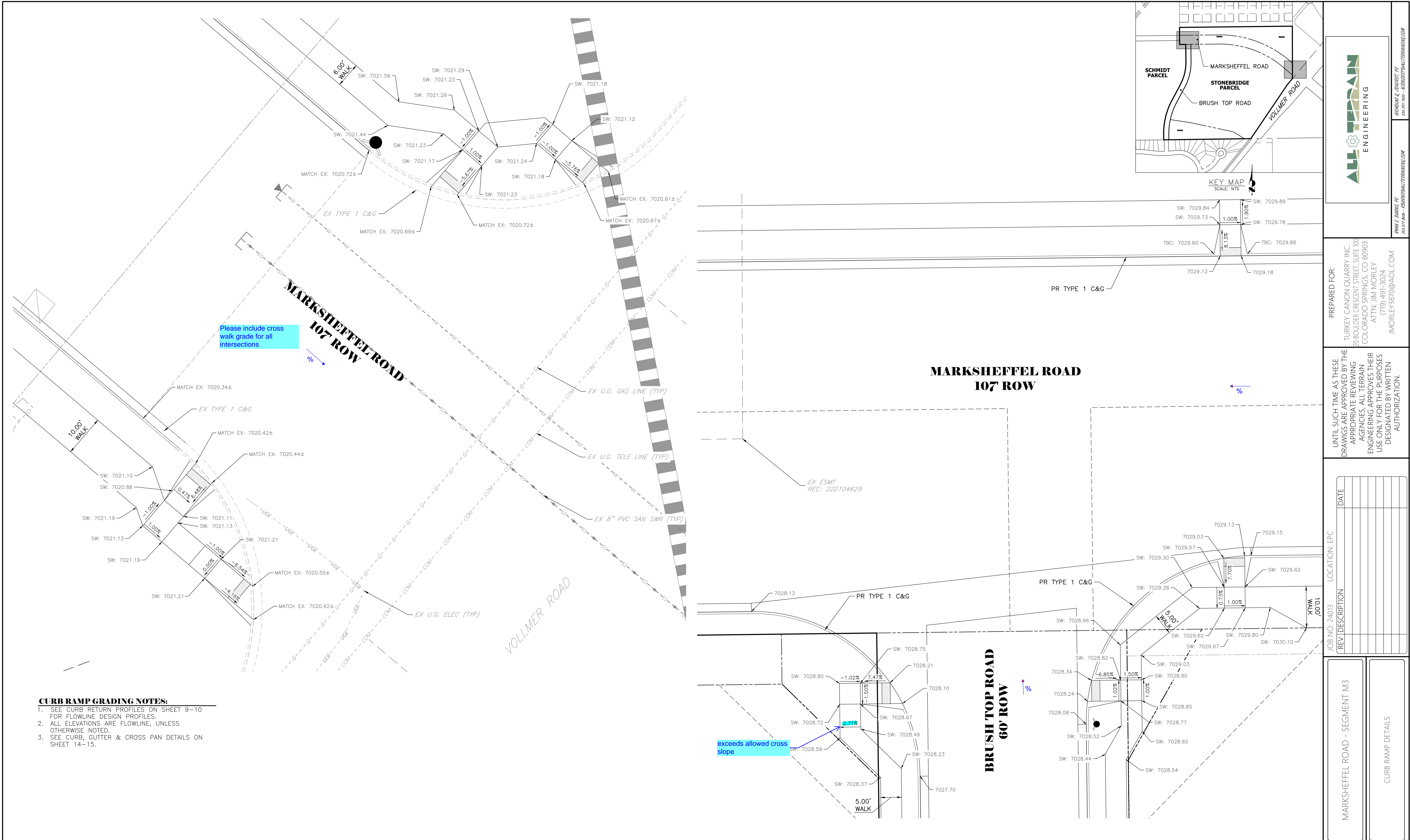
RYAN E. BURNS, P.E.
 COLORADO P.E. 54412
 FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

DATE

REV	DESCRIPTION	DATE

JOB NO: 24013
 LOCATION: EPC
 MARKSHEFFEL ROAD - SEGMENT M3
 FLOWLINE PROFILES (CONT.)

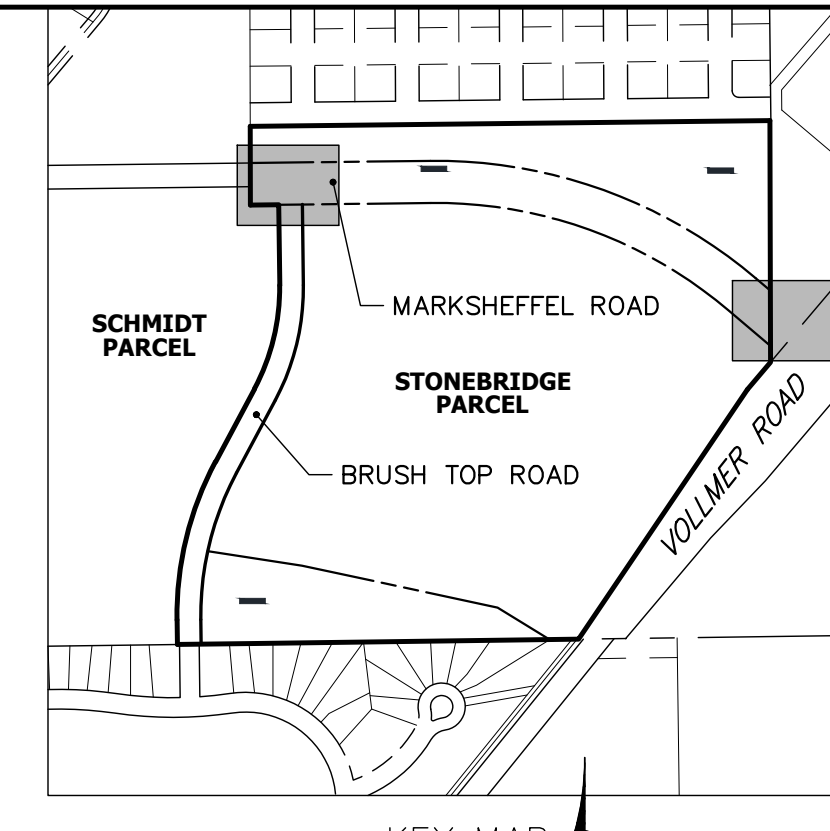
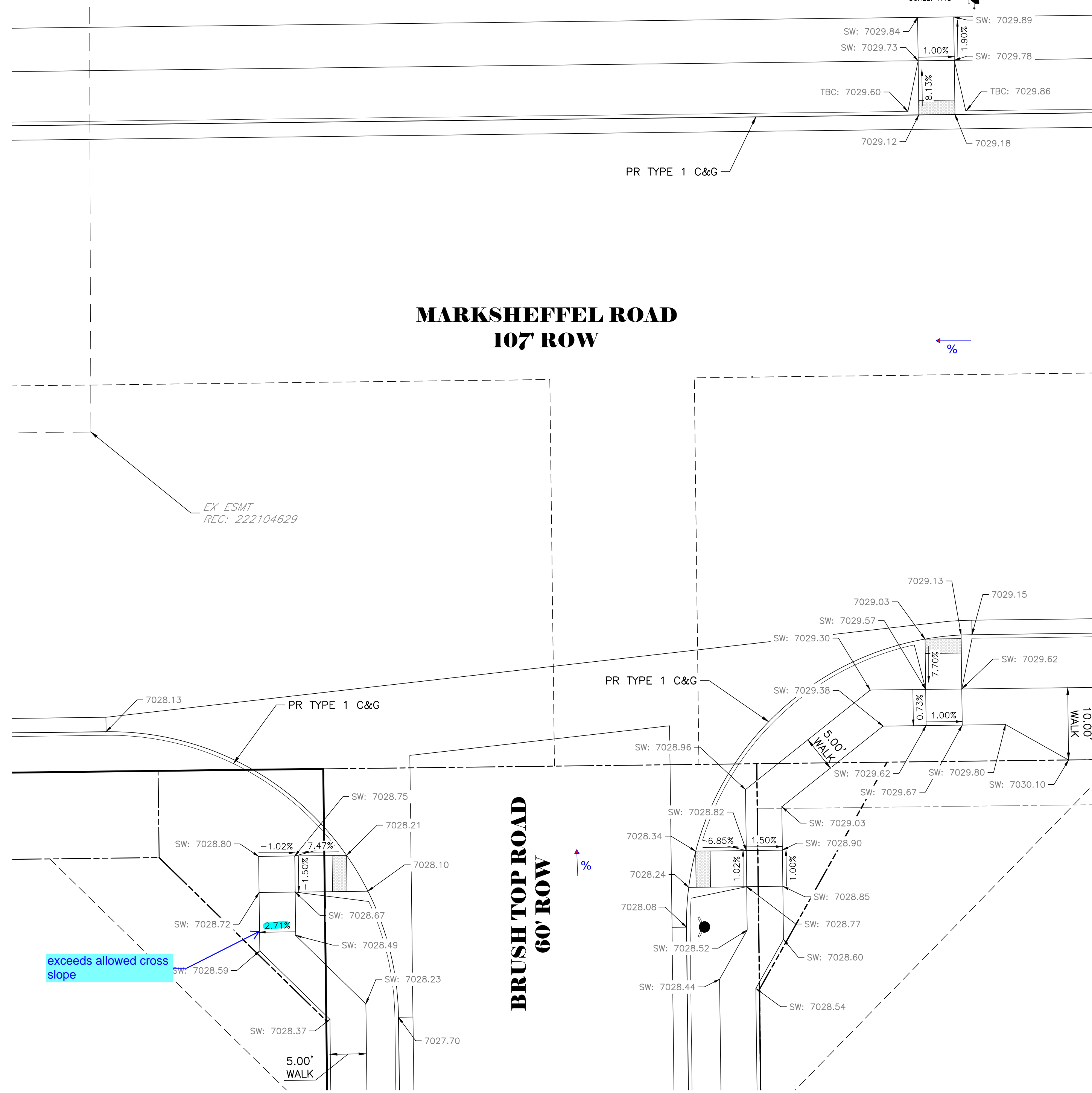
DESIGN: REB
 REVIEW: NOJ
 DATE: 04/27/2026
 H-SCALE: 1" = 20'
 V-SCALE: 1" = 2'
 SHEET
 10 OF 15



Please include cross walk grade for all intersections

- CURB RAMP GRADING NOTES:**
1. SEE CURB RETURN PROFILES ON SHEET 9-10 FOR FLOWLINE DESIGN PROFILES.
 2. ALL ELEVATIONS ARE FLOWLINE, UNLESS OTHERWISE NOTED.
 3. SEE CURB, GUTTER & CROSS PAN DETAILS ON SHEET 14-15.

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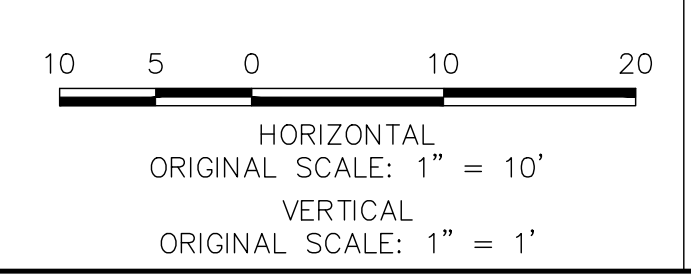
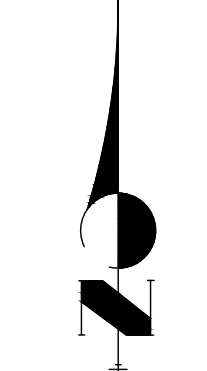


PREPARED FOR:
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20 BOULDER CRESCENT STREET, SUITE 100
COLORADO SPRINGS, CO 80903
ATTN: JIM MORLEY
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DATE	DESCRIPTION

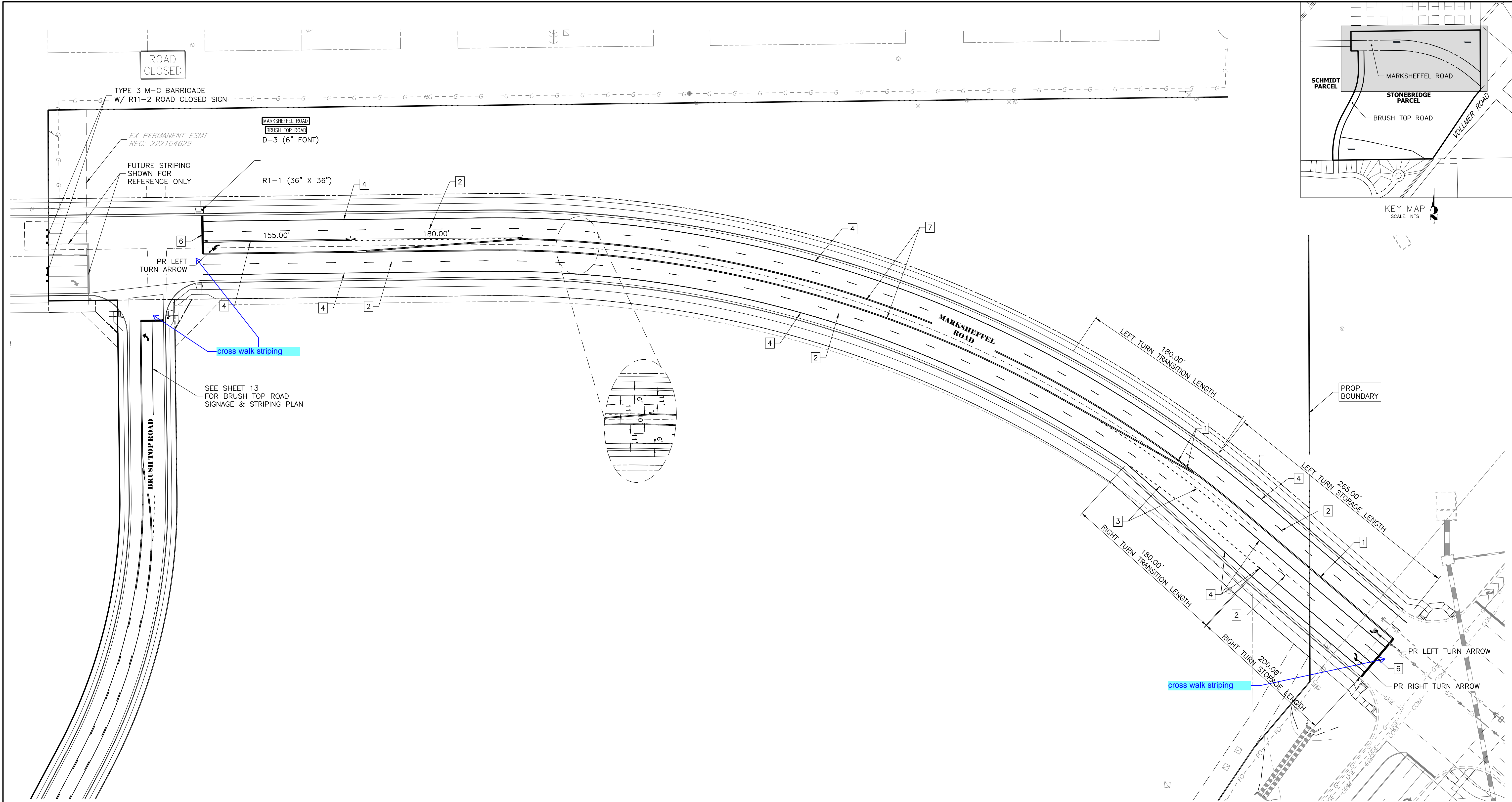
MARKSHEFFEL ROAD - SEGMENT M3
CURB RAMP DETAILS



ENGINEER'S STATEMENT
PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF ALL TERRAIN ENGINEERING

RYAN E. BURNS, P.E.
COLORADO P.E. 54412
FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

DESIGN: REB
REVIEW: NOJ
DATE: 04/27/2026
H-SCALE: 1" = 10'
V-SCALE: N/A
SHEET 11 OF 15



ROAD CLOSED

TYPE 3 M-C BARRICADE
W/ R11-2 ROAD CLOSED SIGN

EX PERMANENT ESMT
REC: 222104629

FUTURE STRIPING
SHOWN FOR
REFERENCE ONLY

MARKSHEFFEL ROAD
BRUSH TOP ROAD
D-3 (6" FONT)

R1-1 (36" X 36")

PR LEFT
TURN ARROW

cross walk striping

SEE SHEET 13
FOR BRUSH TOP ROAD
SIGNAGE & STRIPING PLAN

BRUSH TOP ROAD

MARKSHEFFEL ROAD

LEFT TURN TRANSITION LENGTH

180.00'

LEFT TURN STORAGE LENGTH

265.00'

RIGHT TURN TRANSITION LENGTH

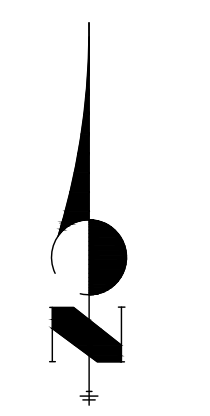
180.00'

RIGHT TURN STORAGE LENGTH

200.00'

PROP. BOUNDARY

KEY MAP
SCALE: NTS



50 25 0 50 100
ORIGINAL SCALE: 1" = 50'

NOTE TO CONTRACTOR:

1. ALL 4" AND 8" SOLID OR SKIP PAVEMENT MARKINGS ARE TO BE EPOXY.
2. SIGNS AND POLES SHALL BE PER CDOT STANDARDS S-614-8, S-614-2, AND S-614-3, LATEST REVISION.
3. ALL SIGNAGE INSTALLATION IS TO BE IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

STRIPING LEGEND

STRIPE	PAVEMENT MARKINGS	MARKING DESCRIPTION
①	DOUBLE CENTERLINE LANE MARKINGS (EPOXY)	PARALLEL SOLID YELLOW, 4" WIDE, 12" APART
②	LANE LINES (EPOXY)	BROKEN WHITE, 4" WIDE, 10' SEGMENTS WITH 30' GAPS
③	LANE DROP LINES (EPOXY)	BROKEN WHITE, 4" WIDE, 3' SEGMENTS WITH 12' GAPS
④	EDGE LINES (EPOXY)	SOLID WHITE, 4" WIDE
⑤	CHANNELIZING LINES (EPOXY)	SOLID WHITE, 8" WIDE
⑥	STOP LINES (THERMO PLASTIC)	SOLID WHITE, 24" WHITE
⑦	DOUBLE CENTERLINE LANE MARKINGS (EPOXY)	PARALLEL YELLOW, 4" WIDE, 12" APART OUTSIDE STRIPE: SOLID INSIDE STRIPE: BROKEN YELLOW

NOTE: MARKSHEFFEL ROAD STRIPING SHALL BE INSTALLED ACCORDING TO THE COLORADO SPRINGS SIGNING AND STRIPING NOTES ON PAGE 2.



Know what's below.
Call before you dig.

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STREET DESIGN FOR CITY ENGINEERING

UTILITY GRADE REVIEW: _____ DATE: _____
CURB & GUTTER REVIEW: _____ DATE: _____
FINAL REVIEW: _____ DATE: _____
DRAINAGE DESIGN: _____ DATE: _____

THIS IS FILED IN ACCORDANCE WITH SECTION 7.7.906 (DRAINAGE ORDINANCE) OF THE CORD OF THE CITY OF COLORADO SPRINGS, 2001 AS AMENDED.

ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF ALL TERRAIN ENGINEERING

RYAN E. BURNS, P.E.
COLORADO P.E. 54412
FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

DESIGN: REB
REVIEW: NOJ
DATE: 04/27/2026

H-SCALE: 1"=50'

V-SCALE: N/A

SHEET
12 OF 15

REV	DESCRIPTION	DATE

LOCATION: EPC

JOB NO: 24013

MARKSHEFFEL ROAD - SEGMENT M3

SIGNAGE & STRIPING PLAN

PREPARED FOR:
TURKEY CANON QUARRY INC.
20 BOULDER CRESCENT STREET, SUITE 100
COLORADO SPRINGS, CO 80903
ATTN: JIM MORLEY
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RYAN E. BURNS, P.E.
54412
ALL TERRAIN ENGINEERING, LLC
10017 10th Ave - Boulder, CO 80501
www.allterrainengineering.com

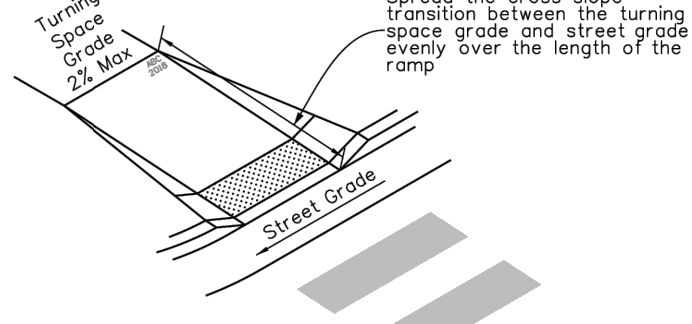
General Notes

- All work shall be done in accordance with the current City of Colorado Springs Engineering Division (The City) Standard Specifications.
- The Contractor shall obtain all required permits and notify City Engineering by 1500 hours the business day before inspection is required.
- Concrete shall have a minimum compressive strength of 4,000 psi and use a City-approved concrete mix.
- A broom finish, with sweep perpendicular to the direction of pedestrian traffic, shall be applied to ramp surfaces.
- The Contractor shall stamp their company name and construction date at the top right corner of the ramp as viewed from the street.
- Detectable warnings shall be installed at sidewalk to street transitions and shall consist of prefabricated truncated dome panels approved by the City. The detectable warning panels shall be set into the wet concrete. The domes shall be in a square grid pattern and aligned with pedestrian traffic.
- All detectable warning surfaces at the base of ramps shall start a minimum of 6 inches from the flowline of the curb and not be more than 8 inches from any point on the flowline of the curb, with the exception for ramps that are constructed within the curved portion of the return as approved by the City.
- Ramp and detectable warning running slope shall be 8.3% or flatter except on long ramps as specified by Note 14.
- Drainage structures, traffic signal equipment, or other obstructions shall not be installed in the ramp or turning space areas.
- If a traffic signal pedestrian push button cannot be mounted within 10 inches horizontally of the pedestrian path or is obstructed from reach then a separate pedestrian push button post assembly shall be installed. Push buttons shall meet the requirements of MUTCD Chapter 4 for pedestrian detectors.
- Diagonal ramps on the apex are not allowed in new construction. A single diagonal ramp on the apex may be permitted during reconstruction or alteration where physical site constraints prevent two ramps from being installed and shall require approval from the City on a case-by-case basis.
- Ramps, excluding flared sides or blended transitions, shall be wholly contained within the width of the crosswalk and/or the pedestrian street crossing that they serve.
- All ramp joints and grade breaks shall be flush (0% slope). The joint between the roadway surface and gutter pan shall be flush.
- In retrofit applications, to avoid chasing grade indefinitely on steep streets, ramp length is not required to exceed 15 feet.
- The counter slope of the gutter or road at the foot of a ramp, turning space, or blended transition shall not exceed 5.0%.
- Flared side slopes may exceed 10% only where they abut a non-walkable surface (landscaping or domed surface) or the adjacent circulation path is blocked such that it is unlikely for a pedestrian to walk across the flared side slope.
- The minimum turning space for new construction is 5 feet by 5 feet. The minimum turning space allowed for retrofit applications is 4 feet by 4 feet. In all types of construction where the turning space is constrained by an element taller than 2 inches such as curb, the turning space shall be 5 feet by 5 feet.
- Contact the City Forestry Division if it is necessary to disturb trees or roots.
- All curb ramps shall have a minimum concrete thickness of 6 inches.
- Attached sidewalks and turning spaces shall have a cross slope between 0.5% and 2.0%.
- Ramps shall align with each other across the street.

Slope Table

The table below is intended to be used to convert between the percent (rise/run) and ratio (run/rise) methods of expressing the magnitude of a slope:

PERCENT SLOPE	0.5%	1.0%	2.0%	5.0%	7.1%	8.3%	10.0%
RATIO	200:1	100:1	50:1	20:1	14:1	12:1	10:1



Ramp Cross Slope Transition To Match Roadway Profile

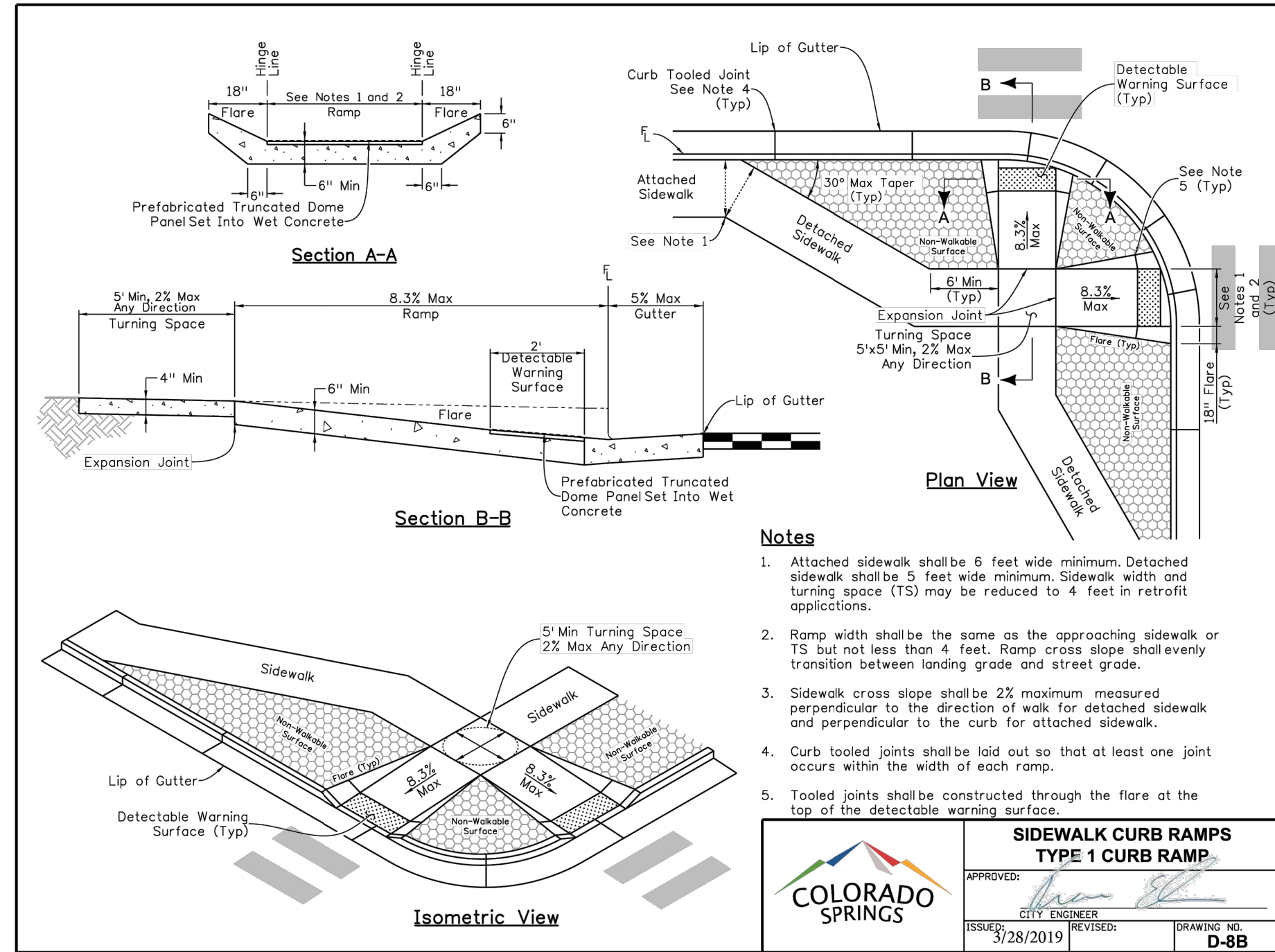
Ramp cross slopes and turning spaces shall be:
 A. 2% max when a yield or stop control is present.
 B. Permitted to equal the street grade when there is no yield or stop control, when a traffic signal is present, at a mid block crossing location, or in retrofit applications.

COLORADO SPRINGS

SIDEWALK CURB RAMPS GENERAL NOTES AND DETAILS

APPROVED: *Gayle Sturdivant*

ISSUED: 6/4/21 REVISED: DRAWING NO. D-8A



Notes

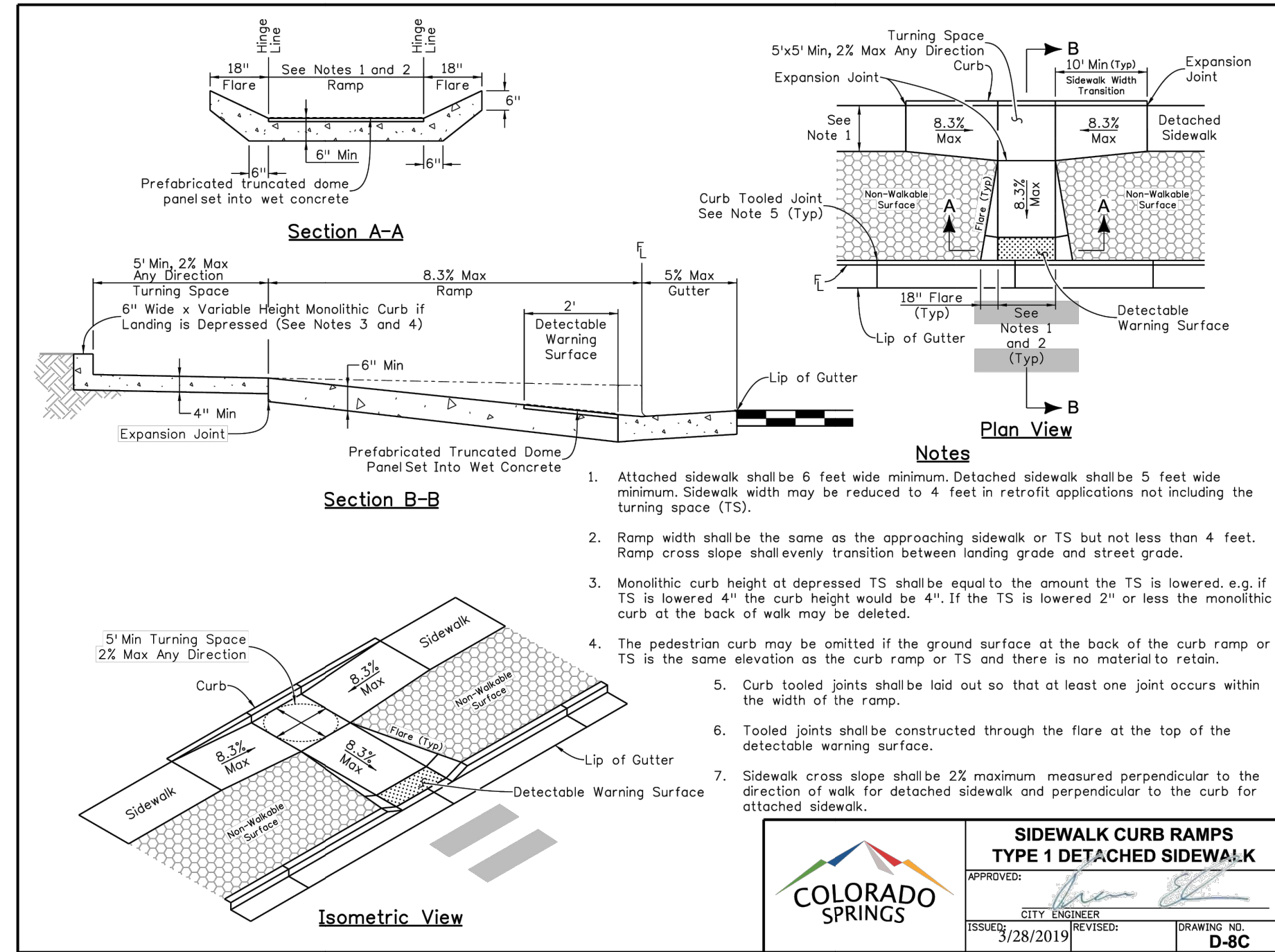
- Attached sidewalk shall be 6 feet wide minimum. Detached sidewalk shall be 5 feet wide minimum. Sidewalk width and turning space (TS) may be reduced to 4 feet in retrofit applications.
- Ramp width shall be the same as the approaching sidewalk or TS but not less than 4 feet. Ramp cross slope shall evenly transition between landing grade and street grade.
- Sidewalk cross slope shall be 2% maximum measured perpendicular to the direction of walk for detached sidewalk and perpendicular to the curb for attached sidewalk.
- Curb toled joints shall be laid out so that at least one joint occurs within the width of each ramp.
- Toled joints shall be constructed through the flare at the top of the detectable warning surface.

COLORADO SPRINGS

SIDEWALK CURB RAMPS TYPE 1 CURB RAMP

APPROVED: *Gayle Sturdivant*

ISSUED: 6/4/21 REVISED: DRAWING NO. D-8B



Notes

- Attached sidewalk shall be 6 feet wide minimum. Detached sidewalk shall be 5 feet wide minimum. Sidewalk width may be reduced to 4 feet in retrofit applications not including the turning space (TS).
- Ramp width shall be the same as the approaching sidewalk or TS but not less than 4 feet. Ramp cross slope shall evenly transition between landing grade and street grade.
- Monolithic curb height at depressed TS shall be equal to the amount the TS is lowered, e.g. if TS is lowered 4" the curb height would be 4". If the TS is lowered 2" or less the monolithic curb at the back of walk may be deleted.
- The pedestrian curb may be omitted if the ground surface at the back of the curb ramp or TS is the same elevation as the curb ramp or TS and there is no material to retain.
- Curb toled joints shall be laid out so that at least one joint occurs within the width of the ramp.
- Toled joints shall be constructed through the flare at the top of the detectable warning surface.
- Sidewalk cross slope shall be 2% maximum measured perpendicular to the direction of walk for detached sidewalk and perpendicular to the curb for attached sidewalk.

COLORADO SPRINGS

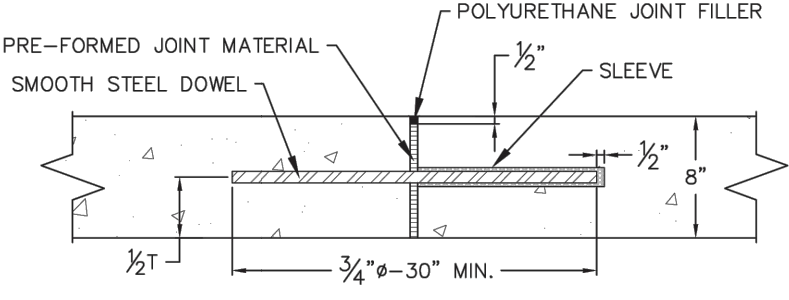
SIDEWALK CURB RAMPS TYPE 1 DETACHED SIDEWALK

APPROVED: *Gayle Sturdivant*

ISSUED: 6/4/21 REVISED: DRAWING NO. D-8C

GENERAL NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT CITY OF COLORADO SPRINGS ENGINEERING DIVISION (THE CITY) STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FOR CITY PERMITS CONTRACTORS SHALL USE THE ACCELA ON-LINE PERMIT SYSTEM. ONCE CITY PERMITS ARE APPROVED AND PAID, THEN APPROPRIATE SCHEDULING AND NOTIFICATIONS SHALL BE IN ACCELA.
- CONTACT CITY PARKS PRIOR TO STARTING WORK IF IT IS NECESSARY TO DISTURB MEDIAN LANDSCAPING OR WORK IS ADJACENT TO AN EXISTING PARK.
- CONTACT THE CITY FORESTRY DIVISION, PRIOR TO STARTING WORK, IF IT IS NECESSARY TO DISTURB TREES OR ROOTS.
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AND BE A CITY APPROVED CONCRETE MIX DESIGN.
- A BROOM FINISH, WITH SWEEPS IN THE DIRECTION OF FLOW, SHALL BE APPLIED TO ALL GUTTER AND CROSS PANS.
- PRIOR TO OPENING TO TRAFFIC, CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,200 PSI AS DEMONSTRATED BY FIELD CURE CYLINDERS.
- NEW ASPHALT SHALL NOT BE PLACED AGAINST FRESHLY POURED CONCRETE. CONCRETE SHALL BE 5-DAYS OLD OR HAVE A COMPRESSIVE STRENGTH OF 3,200 PSI AS DEMONSTRATED BY FIELD CURE CYLINDERS. WHERE PATCHING IN AN EXISTING ROADWAY, PATCHING SHALL BE IN ACCORDANCE WITH ASPHALT REPAIR DRAWINGS.
- THE CONTRACTOR SHALL STAMP THEIR COMPANY NAME AND CONSTRUCTION DATE ON FRONT FACE OF CURB.
- WHITE CURE SHALL BE PLACED WITH 100% COVERAGE, AND MEET THE SPECIFICATION OF SECTION 500.



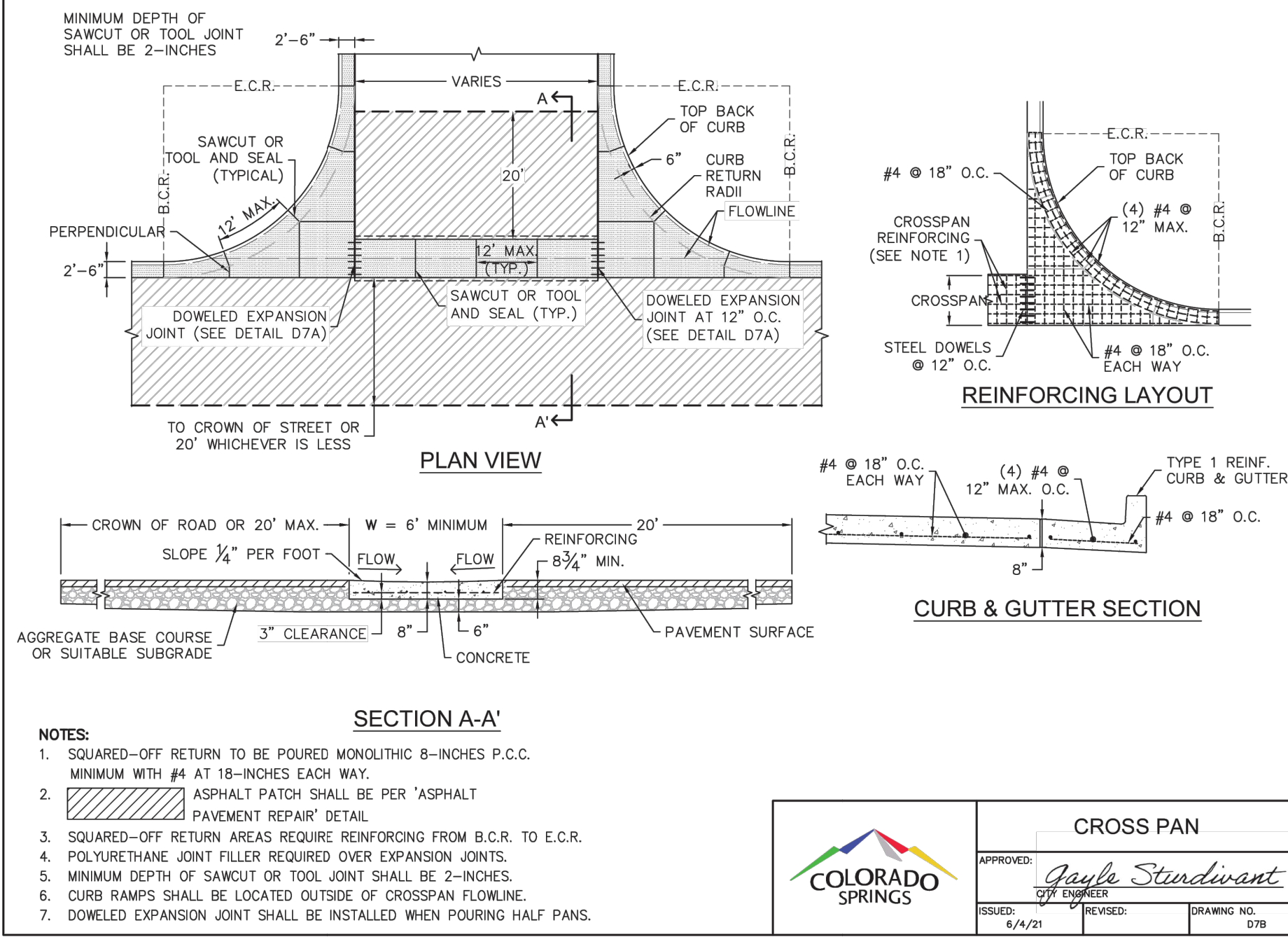
EXPANSION JOINT DETAIL

COLORADO SPRINGS

CROSS PAN NOTES

APPROVED: *Gayle Sturdivant*

ISSUED: 6/4/21 REVISED: DRAWING NO. D7A



NOTES:

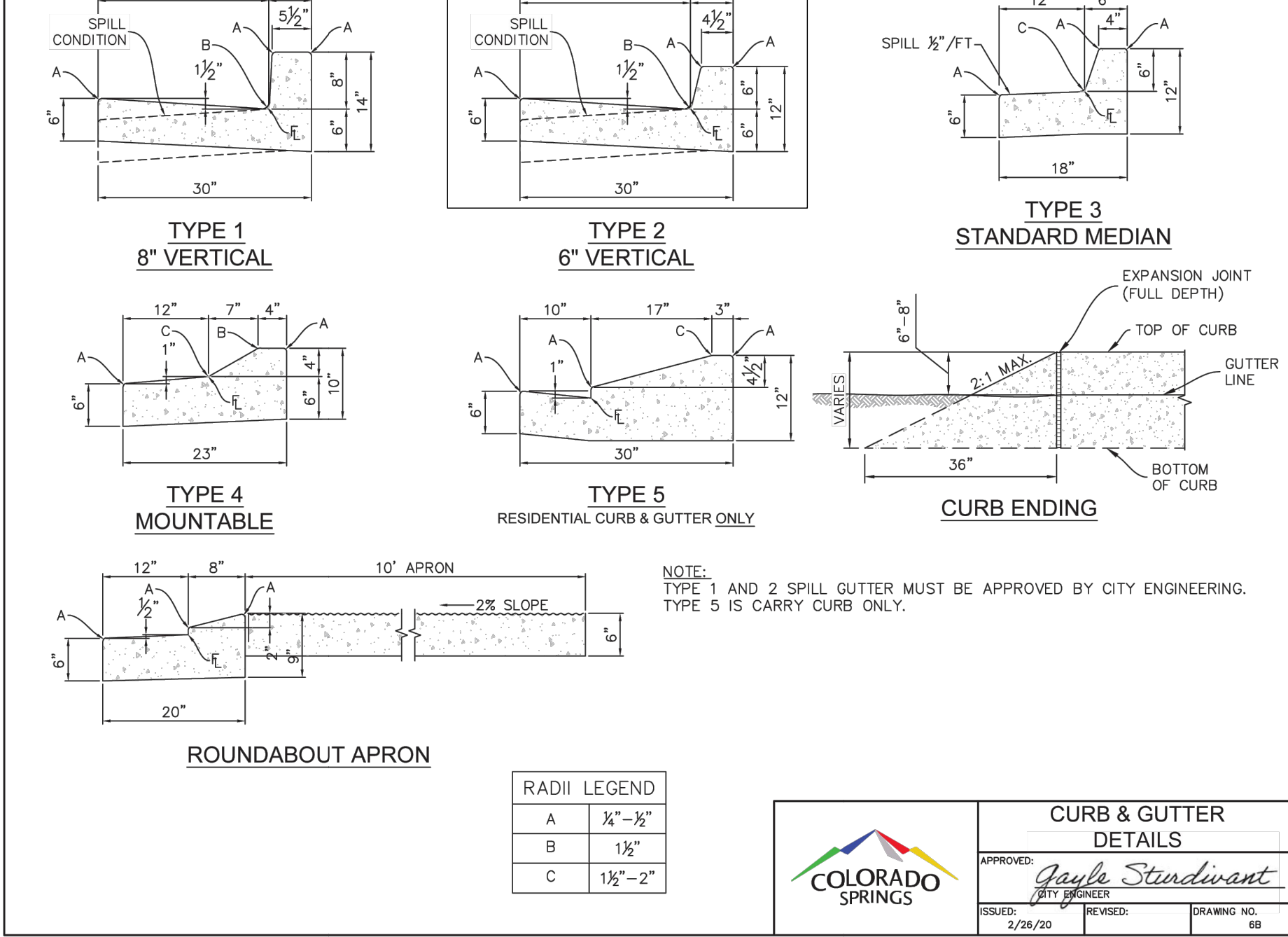
- SQUARED-OFF RETURN TO BE POURED MONOLITHIC 8-INCHES P.C.C. MINIMUM WITH #4 AT 18-INCHES EACH WAY.
- ASPHALT PATCH SHALL BE PER 'ASPHALT PAVEMENT REPAIR' DETAIL.
- SQUARED-OFF RETURN AREAS REQUIRE REINFORCING FROM B.C.R. TO E.C.R.
- POLYURETHANE JOINT FILLER REQUIRED OVER EXPANSION JOINTS.
- MINIMUM DEPTH OF SAWCUT OR TOOL JOINT SHALL BE 2-INCHES.
- CURB RAMPS SHALL BE LOCATED OUTSIDE OF CROSSPAN FLOWLINE.
- DOWELED EXPANSION JOINT SHALL BE INSTALLED WHEN POURING HALF PANS.

COLORADO SPRINGS

CROSS PAN

APPROVED: *Gayle Sturdivant*

ISSUED: 6/4/21 REVISED: DRAWING NO. D7B



RADI LEGEND

A	1/4" - 3/4"
B	1 1/2"
C	1 1/2" - 2"

COLORADO SPRINGS

CURB & GUTTER DETAILS

APPROVED: *Gayle Sturdivant*

ISSUED: 2/7/20 REVISED: DRAWING NO. 68



PREPARED FOR:
 TURKEY QUARRY INC.
 20 BOULDER CREEK STREET, SUITE 100
 COLORADO SPRINGS, CO 80903
 ATTN: JIM MORLEY
 (719) 491-3024
 JMORLEY3870@AOL.COM

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, ALL TERRAIN ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

DATE	DESCRIPTION

MARKSHEFFEL ROAD - SEGMENT W3
 CITY STREET DETAILS

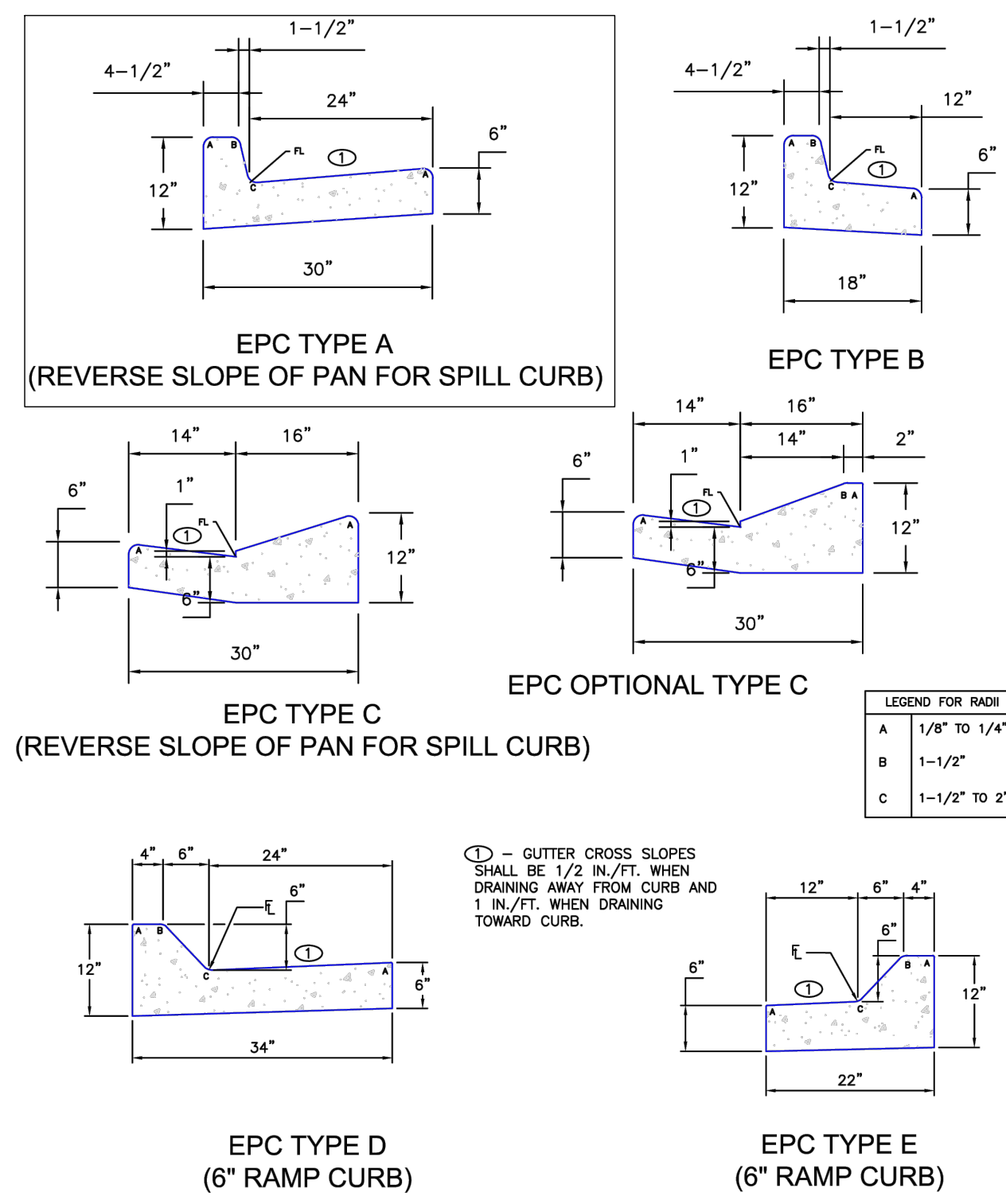
ENGINEER'S STATEMENT
 PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF ALL TERRAIN ENGINEERING

RYAN E. BURNS, P.E.
 COLORADO P.E. 54412
 FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

DATE

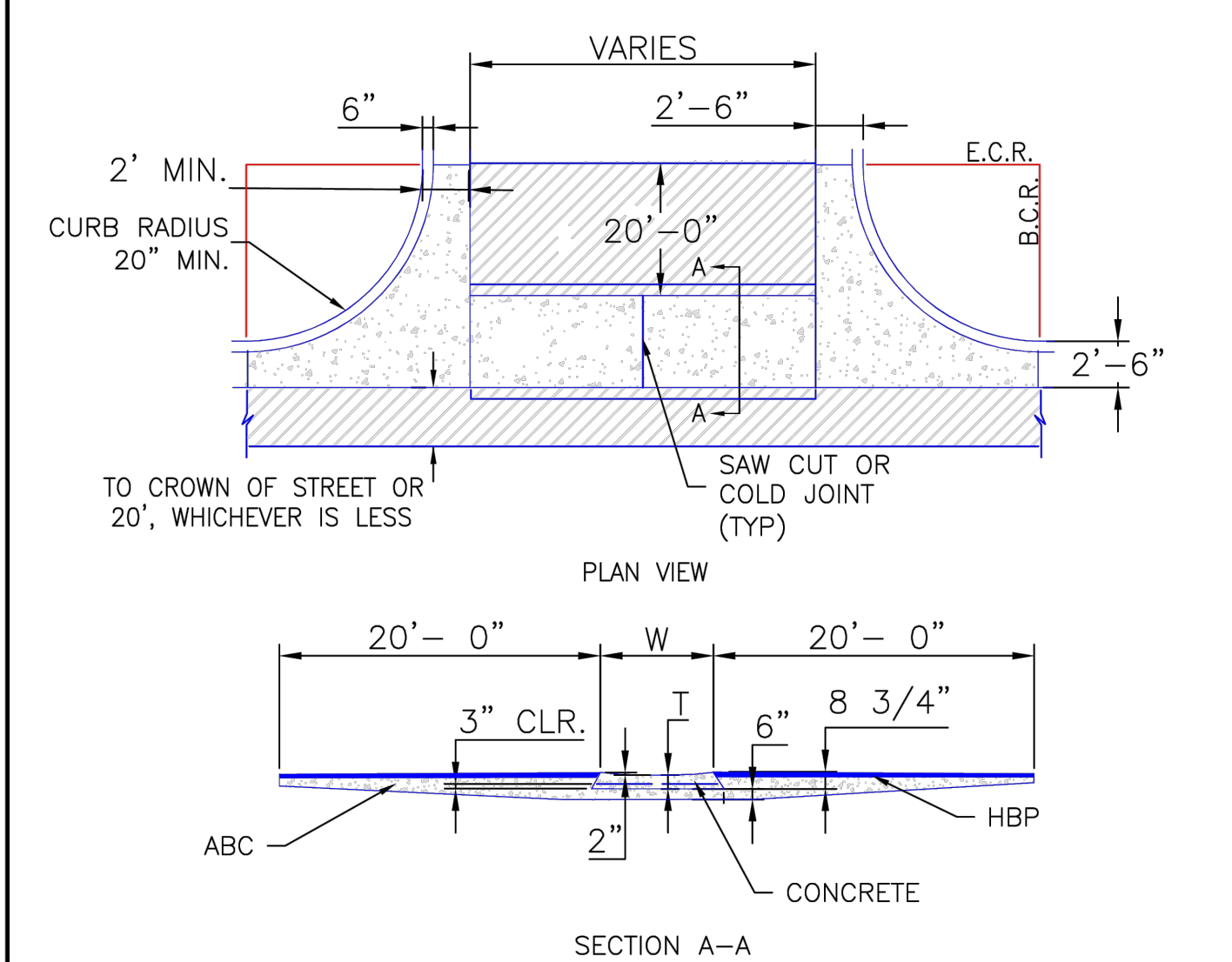
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 REVIEW: NQJ
 DATE: 04/27/2026
 H-SCALE: NA
 V-SCALE: NA
 SHEET
 14 OF 15

P:\ECC\July_2022_Edits\SD_2-20_Ang_Layout1_7/27/2023 10:37:45 AM.dwg, Supersedes All Previously Dated Sets



NOTE: SIDEWALK/CURB & GUTTER SHALL NOT BE POURED MONOLITHICALLY SCALE: NOT TO SCALE

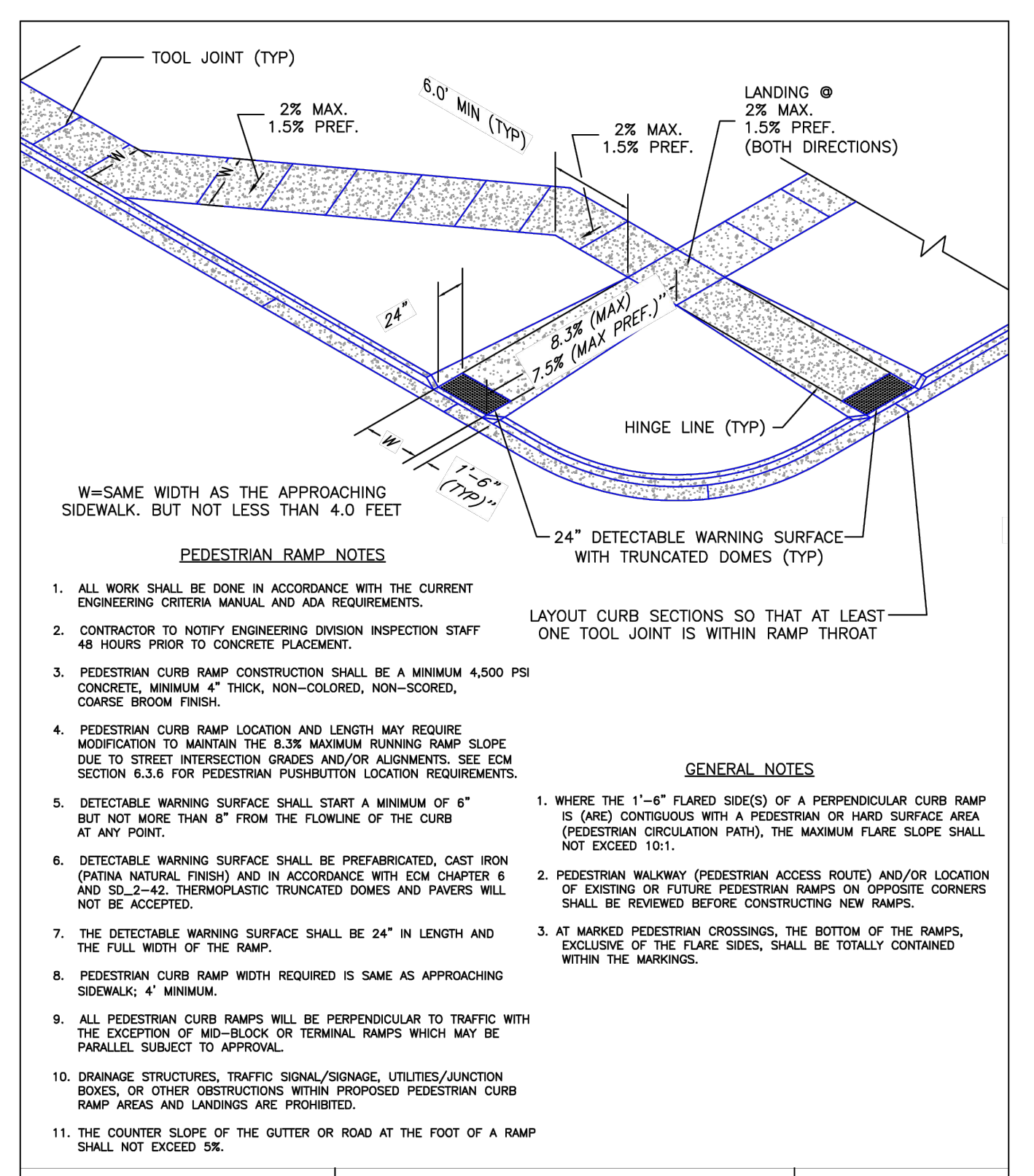
DATE APPROVED: 6/23/20	Typical Curb and Gutter Details	
APPROVED: Joshua J. Palmer	Standard Drawing	
REVISION DATE: 7/18/23	FILE NAME: SD_2-20	



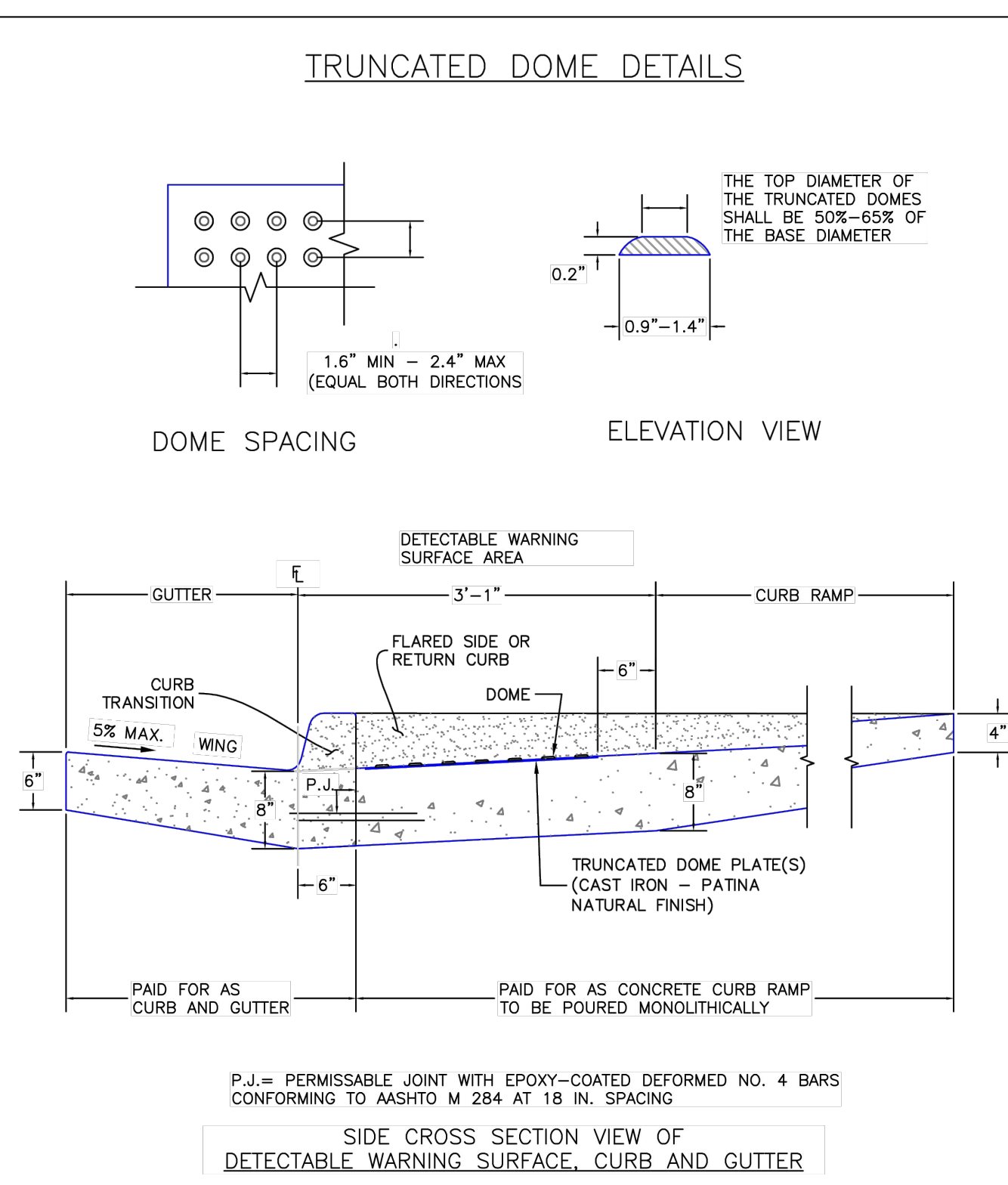
- NOTES**
- W - WIDTH SHALL BE 6' FOR LOCAL, 8' FOR COLLECTORS, AND 10' FOR ARTERIAL ROADS.
 - T - SQUARED-OFF RETURN TO BE POURED MONOLITHICALLY, 8" PCC FOR LOCAL ROADS, 9" FOR COLLECTORS WITH 6x6 - 4.4 W.W.F. OR #4 REINFORCING BAR @ 18" EACH WAY.
 - = 3" MINIMUM ASPHALT DEPTH (2 LIFTS).
 - DESIGN TO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

SCALE: NOT TO SCALE

DATE APPROVED: 8/11/11	Typical Cross Pan Layout Detail	
APPROVED: André P. Brackin	Standard Drawing	
REVISION DATE: 12/8/15	FILE NAME: SD_2-26	



DATE APPROVED: 6/23/20	Pedestrian Curb Ramp Detail	
APPROVED: Jennifer E. Irvine	Standard Drawing	
REVISION DATE: 6/23/20	FILE NAME: SD_2-41	



DATE APPROVED: 6/23/20

APPROVED: Jennifer E. Irvine
 DETECTABLE WARNING Surface Details | || REVISION DATE: 6/23/20 | FILE NAME: SD_2-42 | Standard Drawing |

ENGINEER'S STATEMENT

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF ALL TERRAIN ENGINEERING

RYAN E. BURNS, P.E. COLORADO P.E. 54412 FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

DATE



PREPARED FOR: TURKEY CANON QUARRY INC. 20 BOULDER CREST STREET, SUITE 100 COLORADO SPRINGS, CO 80903 ATTN: JIM MORLEY (719) 491-3024 JIMORLEY3870@AOL.COM

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, ALL TERRAIN ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

DATE	
REV DESCRIPTION	

MARKSHEFFEL ROAD - SEGMENT M3

COUNTY STREET DETAILS

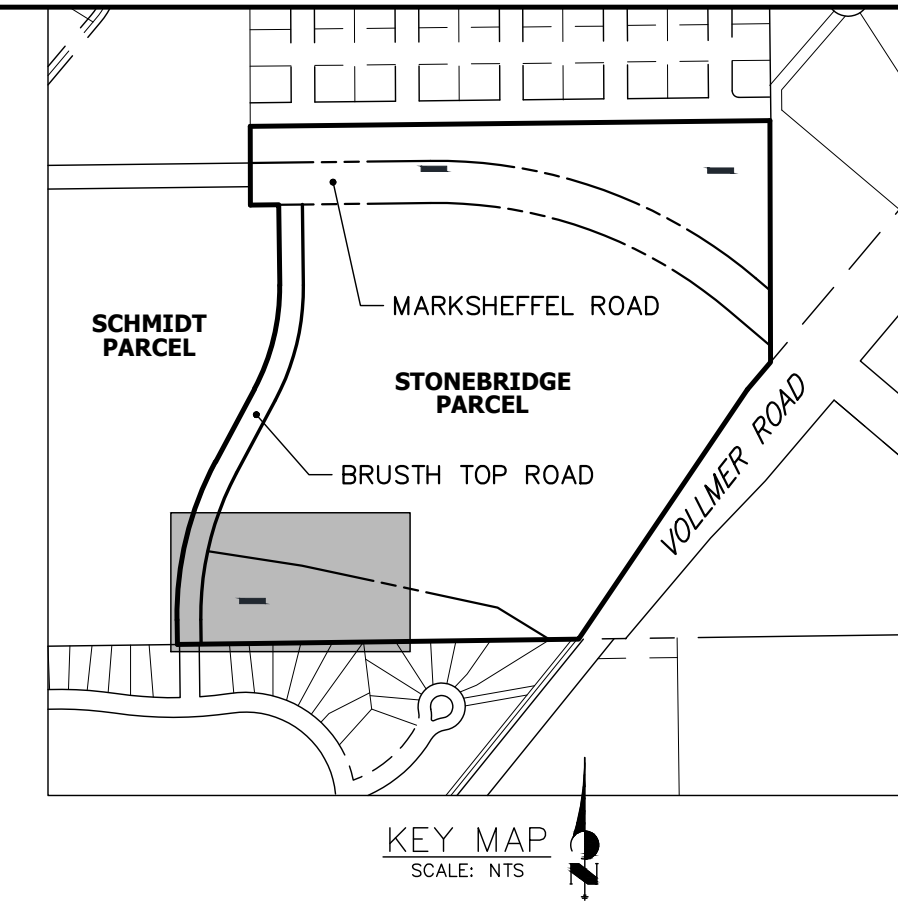
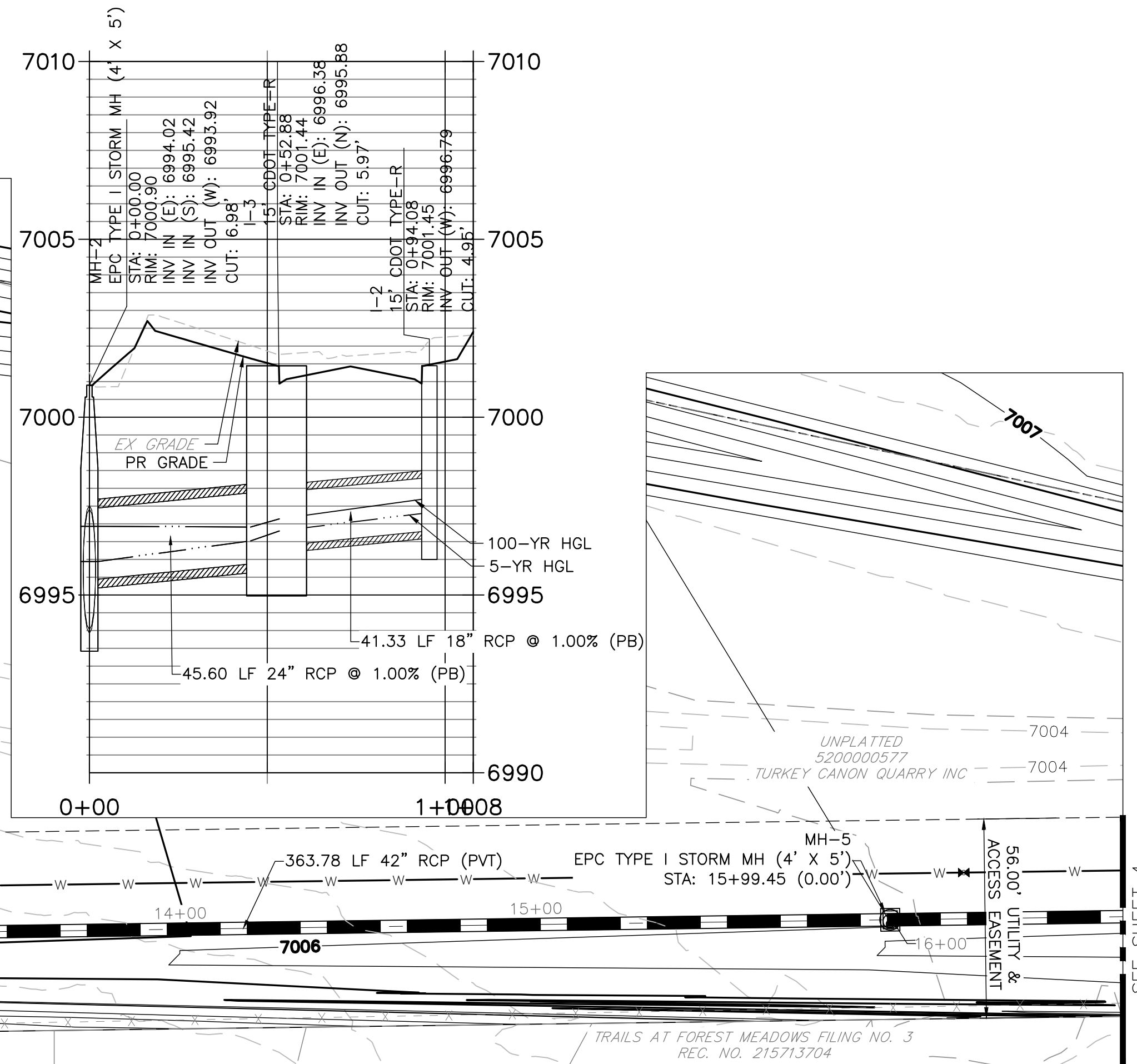
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REVIEW: NQJ
DATE: 04/27/2026

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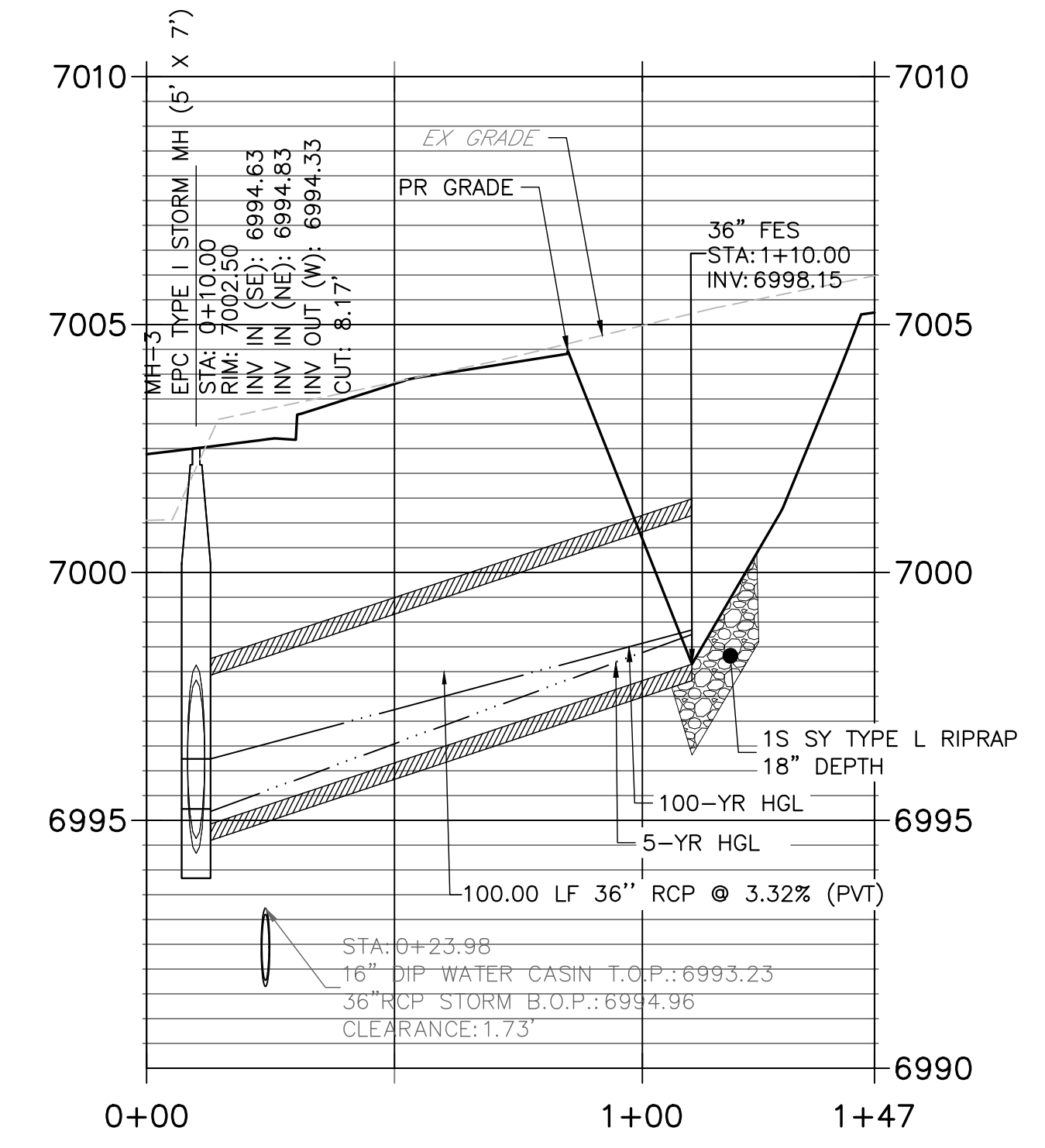
SHEET 15 OF 15

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

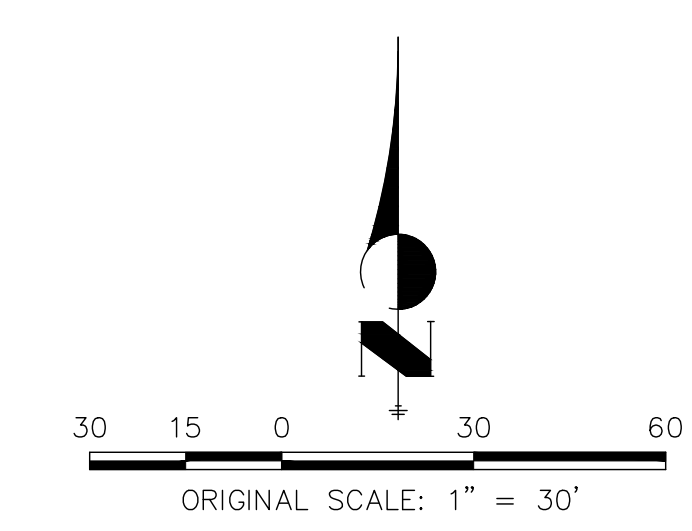
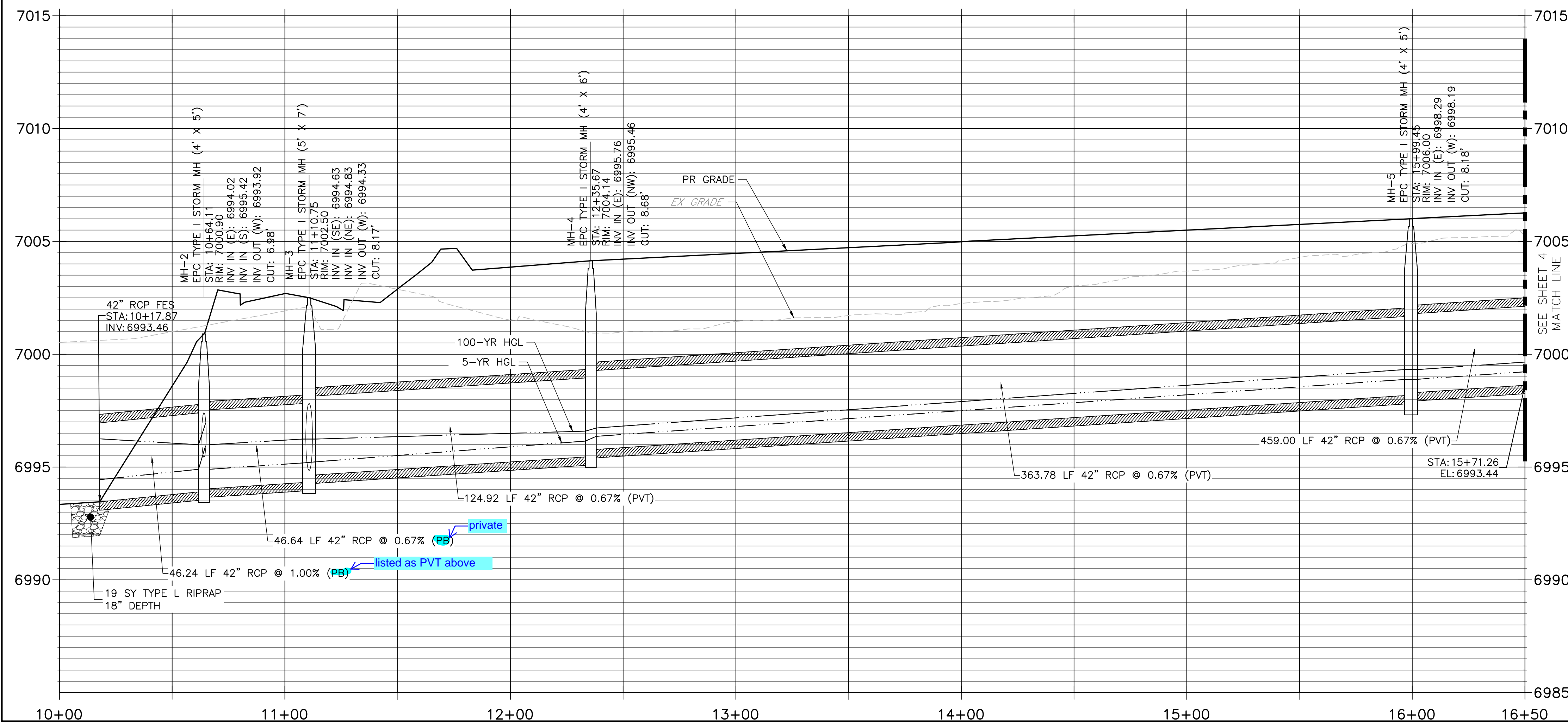
DP04 STA 0+00.00 TO 1+07.91



DP05 STA 0+00.00 TO 1+46.83



DP02-1 STA 10+00.00 TO 16+50.00



ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECT 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 APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLAN 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 THESE DETAILED PLANS AND SPECIFICATIONS.



PCD FILE NO. CDR-2413

RYAN E. BURNS, P.E.
COLORADO P.E. 54412
FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

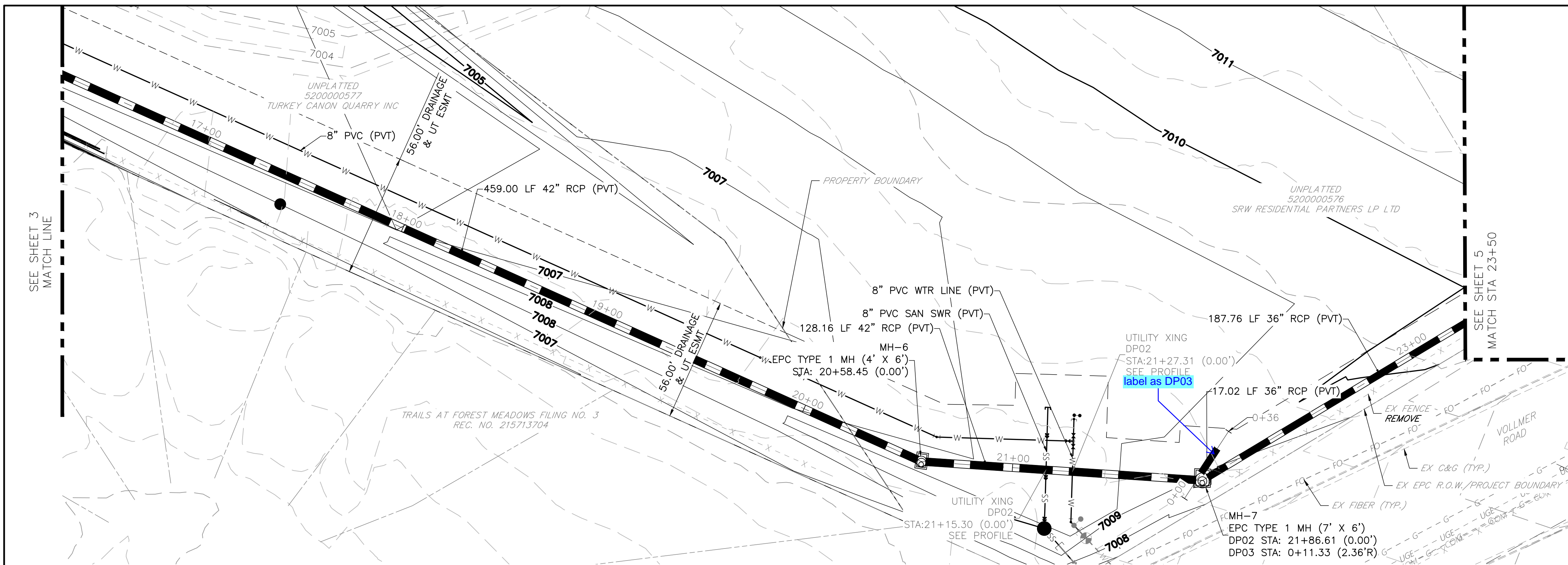
PREPARED FOR:
TURKEY CANYON QUARRY INC.
20 BOULDER CRESCENT STREET, SUITE 100
COLORADO SPRINGS, CO 80903
ATTN: JIM MORLEY
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JMORLEY3870@AOL.COM

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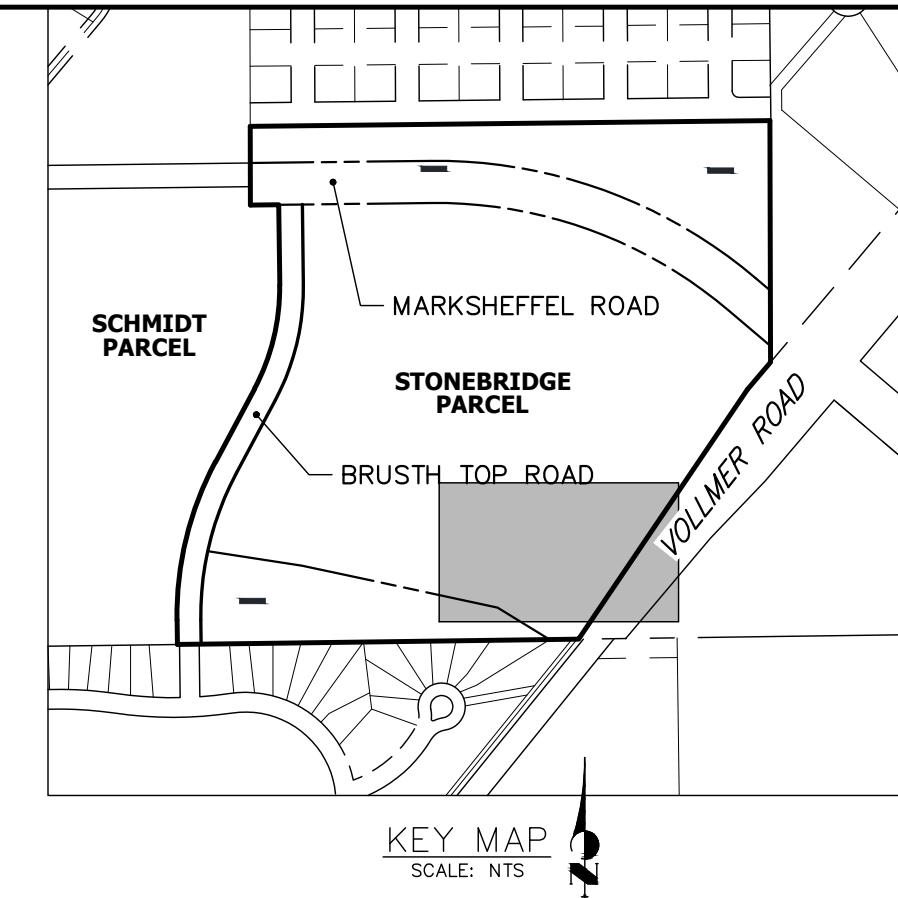
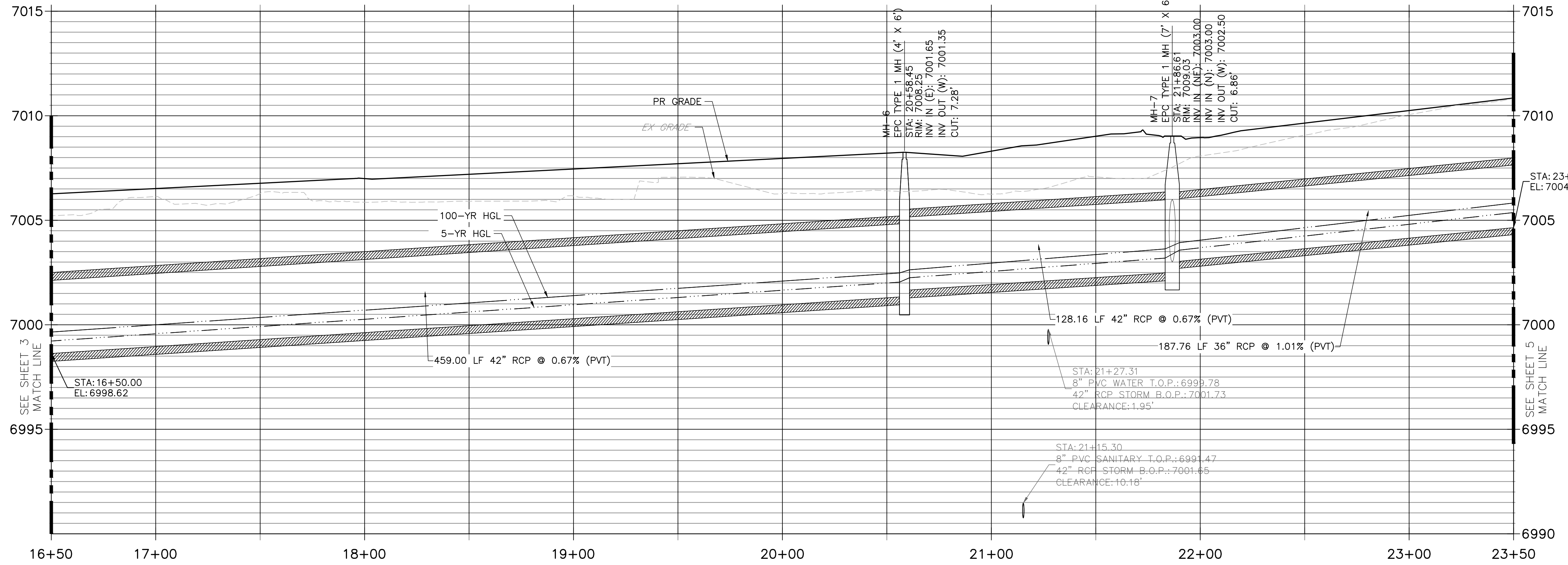
DATE	REV DESCRIPTION

MARKSHEFFEL ROAD SEGMENT M3
STORM SEWER PLAN & PROFILE

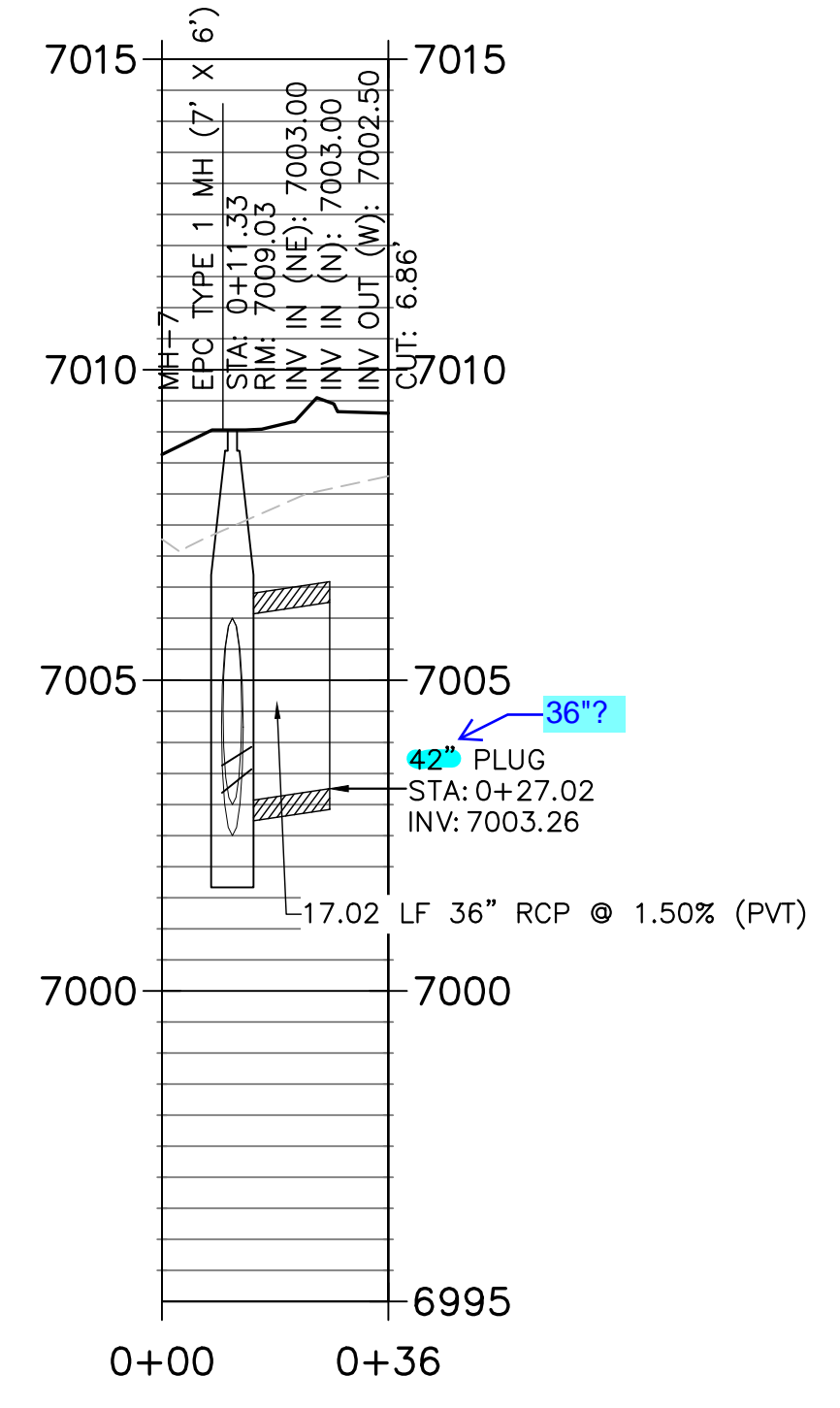
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REVIEW: NOJ
DATE: 04/27/2026
H-SCALE: 1" = 30'
V-SCALE: 1" = 3'
SHEET
3 OF 8



**DP02-2
STA 16+50.00 TO 23+50.00**



**DP03 (3)
STA 0+00.00 TO 0+36.47**



ORIGINAL SCALE: 1" = 30'

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RYAN E. BURNS, P.E.
COLORADO P.E. 54412
FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

ALL TERRAIN ENGINEERING

PREPARED FOR:
TURKEY CANYON QUARRY INC.
20 BOULDER CRESCENT STREET, SUITE 100
COLORADO SPRINGS, CO 80903
ATTN: JIM MORLEY
(719) 491-3024
JMORLEY3870@AOL.COM

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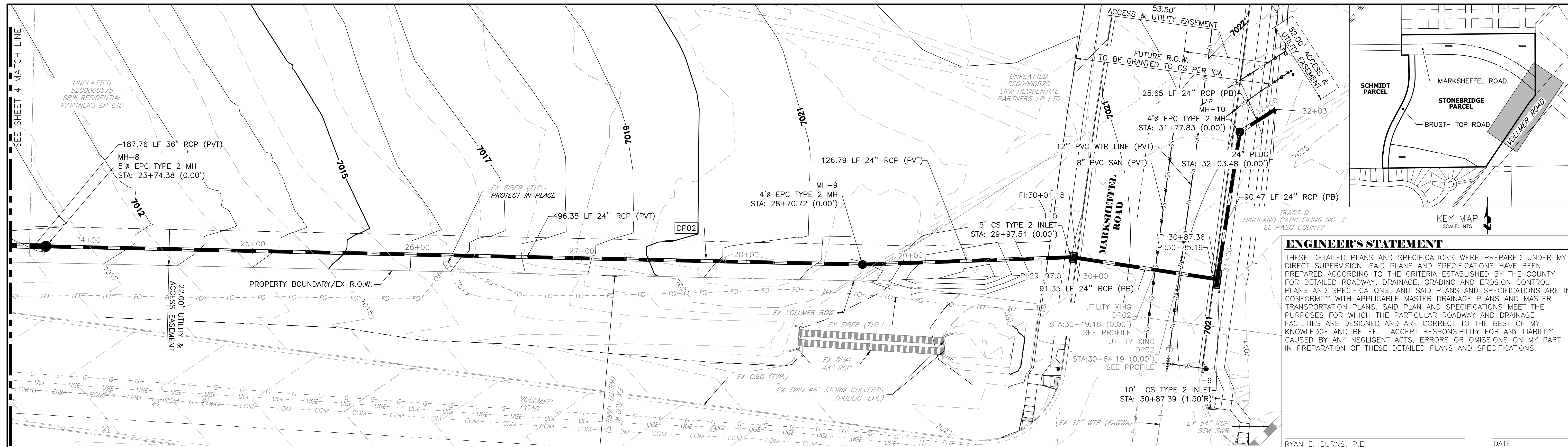
DATE	DESCRIPTION

MARKSHEFFEL ROAD SEGMENT M3
STORM SEWER PLAN & PROFILE

DESIGN: REB
REVIEW: NOJ
DATE: 04/27/2026

H-SCALE: 1" = 30'
V-SCALE: 1" = 3'

SHEET
4 OF 8

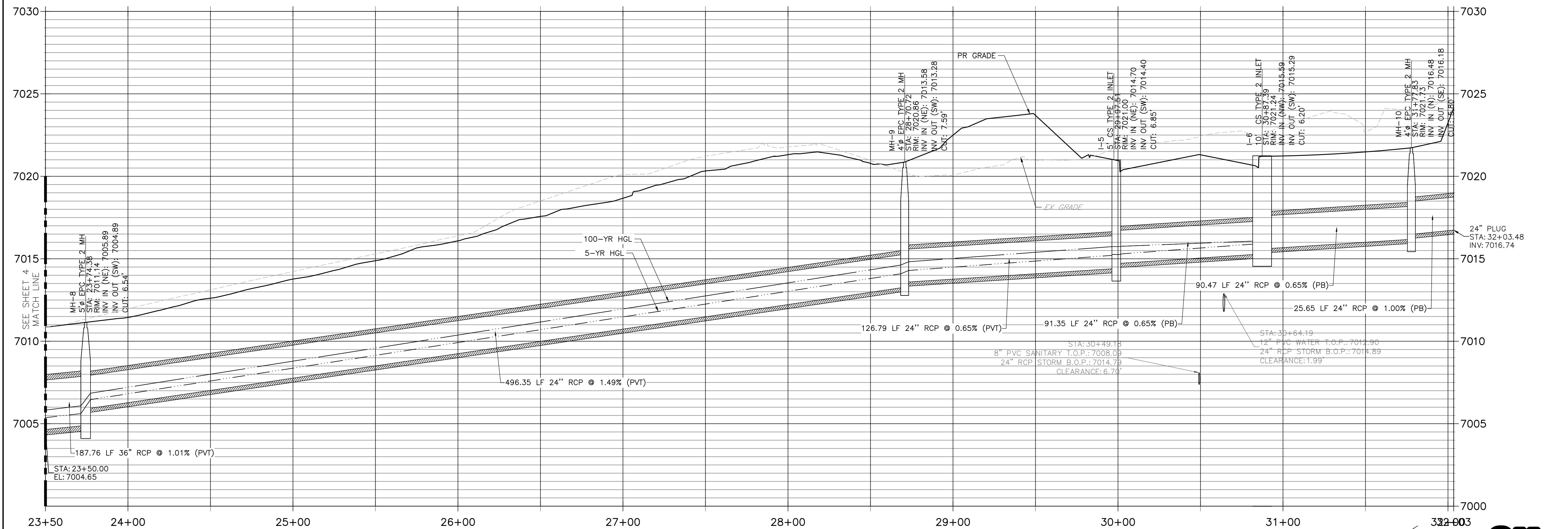


**DP02-3
STA 23+50.00 TO 32+03.48**

ENGINEER'S STATEMENT

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RYAN E. BURNS, P.E. DATE
 COLORADO P.E. 54412
 FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC



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ORIGINAL SCALE: 1" = 30'

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

ALL TERRAIN ENGINEERING

PREPARED FOR:
 TURKEY CANON QUARRY INC.
 20 BOULDER CRESCENT STREET, SUITE 100
 COLORADO SPRINGS, CO 80903
 ATTN: JIM MORLEY
 (719) 491-3024
 JIMORLEY3870@AOL.COM

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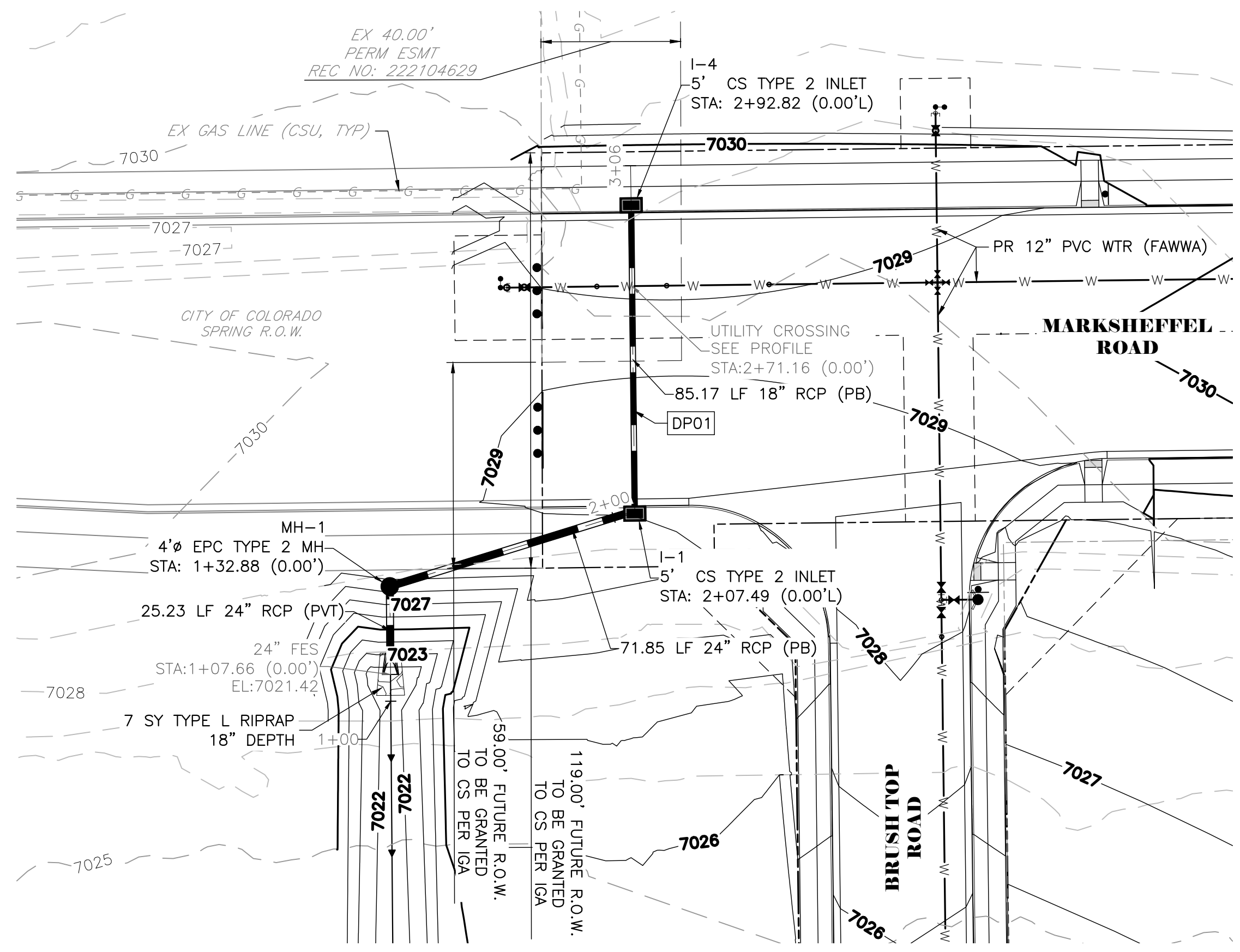
DATE	DESCRIPTION

JOB NO: 24013 LOCATION: EPC

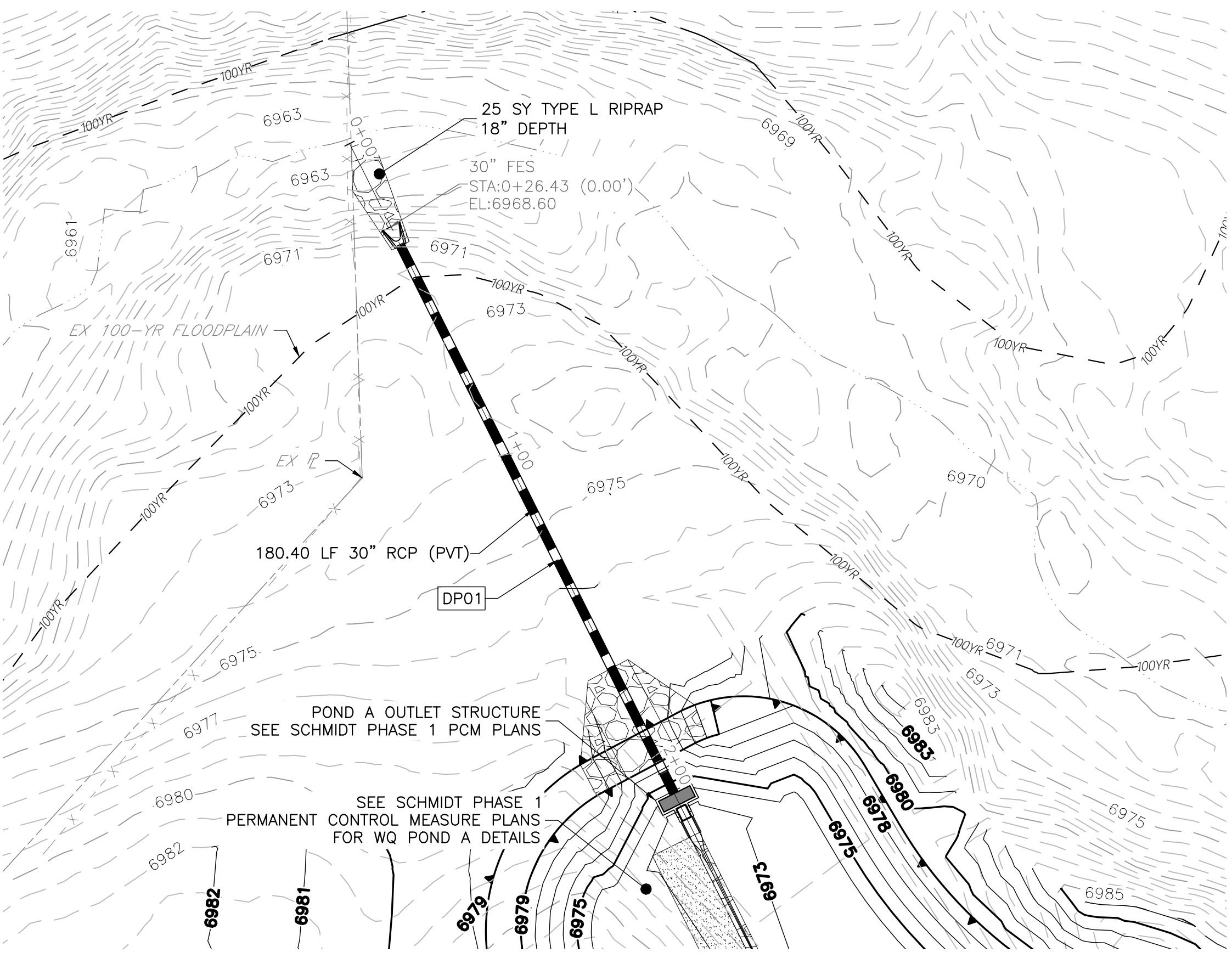
MARKSHEFFEL ROAD SEGMENT M3

STORM SEWER PLAN & PROFILE

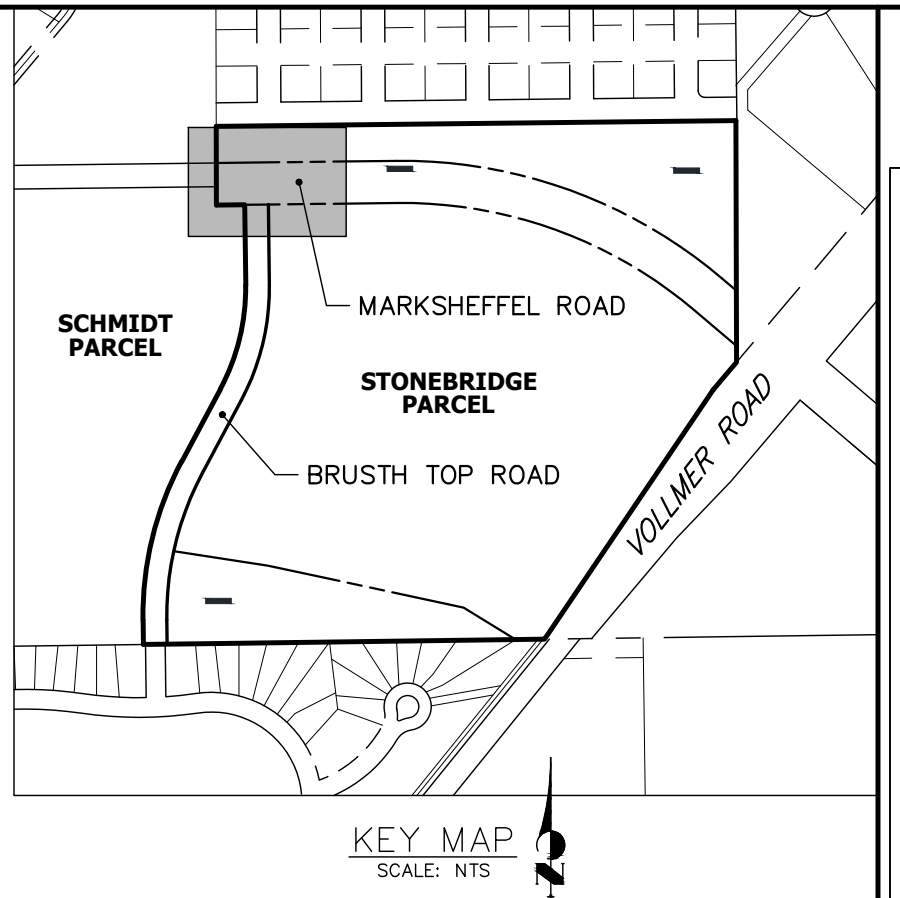
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 REVIEW: NOJ
 DATE: 04/27/2026
 H-SCALE: 1" = 30'
 V-SCALE: 1" = 3'
 SHEET 5 OF 8



DP01
STA 1+00.00 TO 3+05.66



POND A
STA 0+00.00 TO 2+50.00

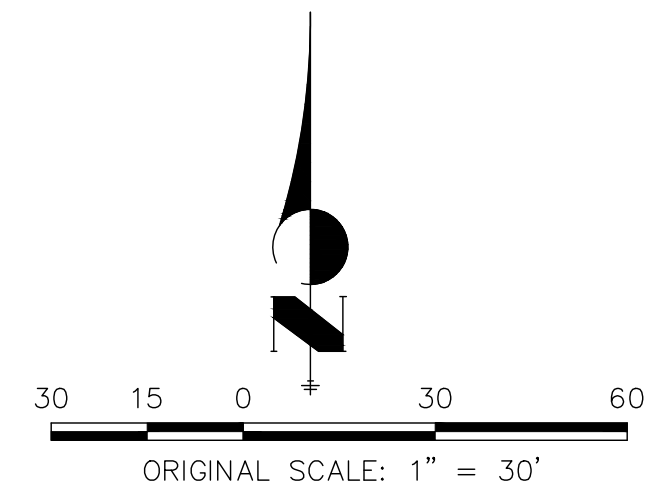
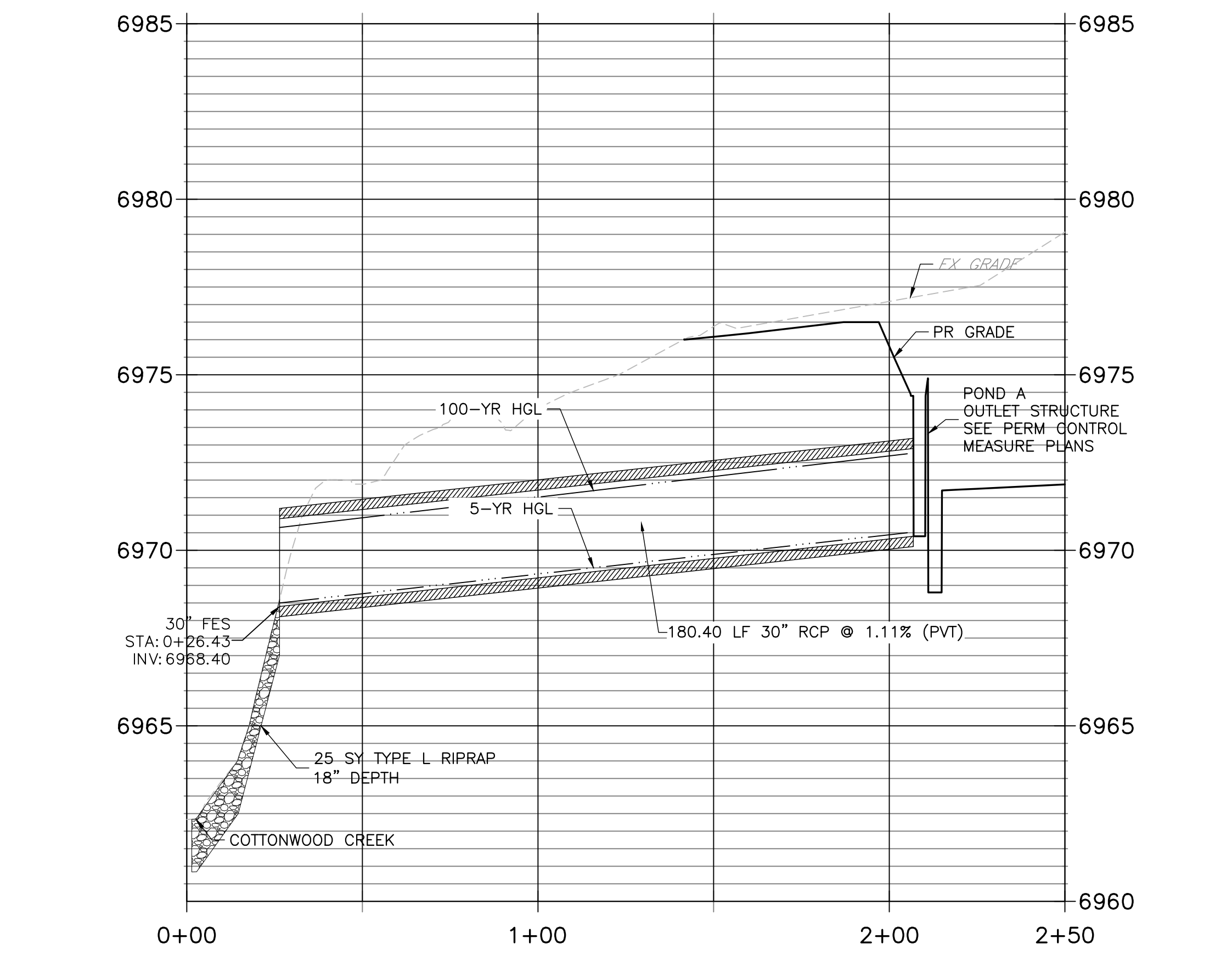
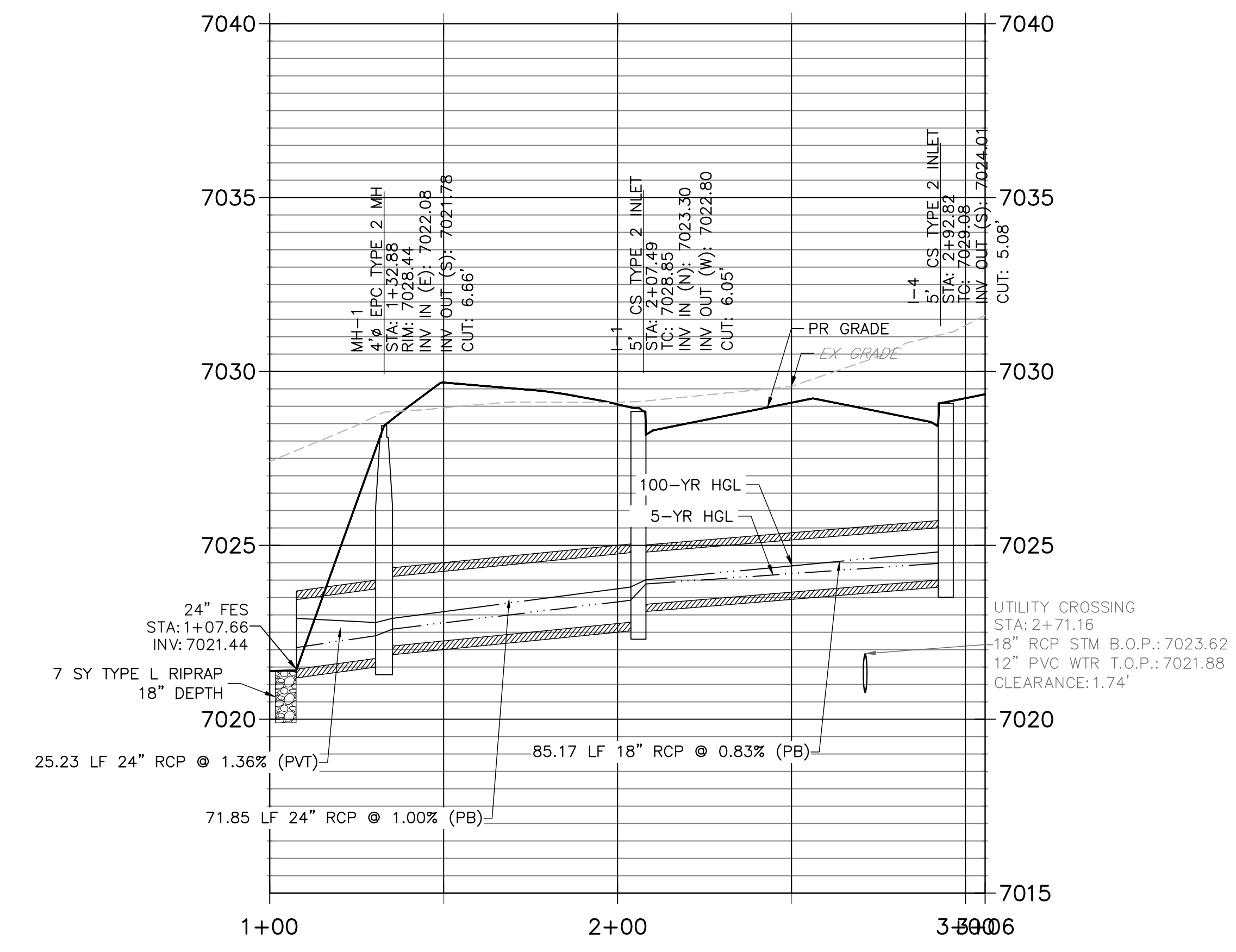


ALL TERRAIN ENGINEERING

RYAN E. BURNS, P.E.
550 391 5500
rburns@allterraineng.com

PREPARED FOR:
TURKEY CANON QUARRY INC.
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JMORLEY3870@AOL.COM

UNTIL SUCH TIME AS THESE
DRAWINGS ARE APPROVED BY THE
APPROPRIATE REVIEWING
AGENCIES, ALL TERRAIN
ENGINEERING APPROVES THEIR
USE ONLY FOR THE PURPOSES
DESIGNATED BY WRITTEN
AUTHORIZATION.



THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECT 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 APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLAN 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 THESE DETAILED PLANS AND SPECIFICATIONS.

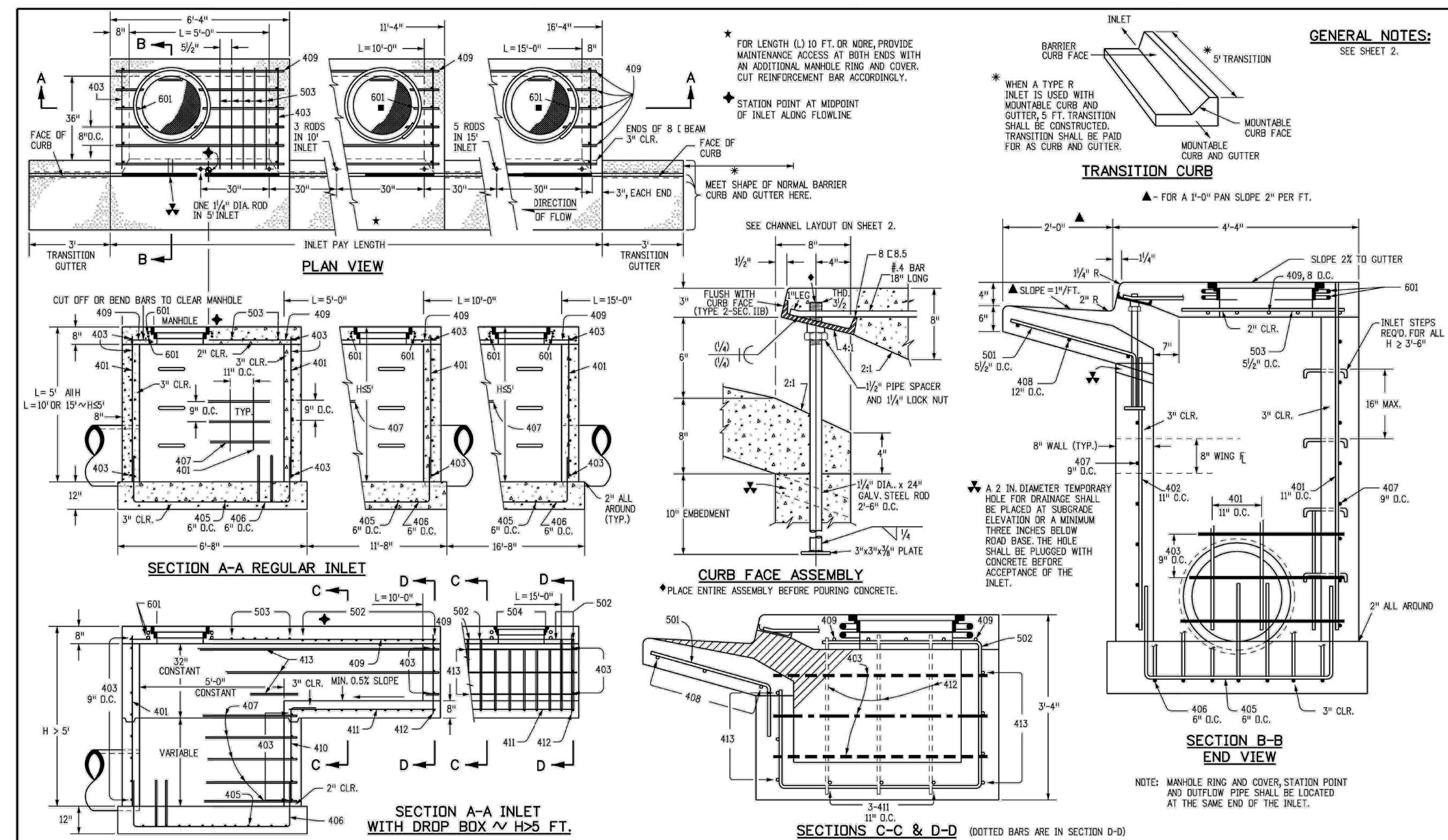
RYAN E. BURNS, P.E. DATE
COLORADO P.E. 54412
FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

DATE	DESCRIPTION

MARKSHEFFEL ROAD SEGMENT M3

STORM SEWER PLAN & PROFILE

DESIGN: REB
REVIEW: NQJ
DATE: 04/27/2026
H-SCALE: 1" = 30'
V-SCALE: 1" = 3'
SHEET
6 OF 8



Computer File Information		Sheet Revisions		Colorado Department of Transportation		CURB INLET TYPE R		STANDARD PLAN NO. M-604-12	
Creation Date: 07/31/19	Designer Initials: JBK	Date:	Comments:	2829 West Howard Place					
Last Modification Date: 07/31/19	Detailer Initials: LTA			COIT, 3rd Floor					
CAD Ver: MicroStation V8	Scale: Not to Scale			Denver, CO 80204					
				Phon: 303-757-9021 FAX: 303-757-9868					
				Project Development Branch	JBK	Issued by the Project Development Branch: July 31, 2019		Project Sheet Numbers	

MARK	BAR # OR SIZE	O.C. SPACING	TYPE	ALL INLETS			INLETS: H ≤ 5 FT.			INLETS: H > 5 FT.			
				NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH
401	4	12"	II	15	*	21	*	26	*	11	*	11	*
402	4	12"	II	7	*	13	*	18	*	7	*	7	*
403	4	9"	II	8	*	14	*	19	*	8	*	8	*
404	4	6"	VI	11	*	17	*	22	*	11	*	11	*
405	4	6"	VII	7	*	13	*	18	*	7	*	7	*
406	4	6"	VIII	7	*	13	*	18	*	7	*	7	*
407	4	9"	II	8	*	14	*	19	*	8	*	8	*
408	4	12"	II	7	*	13	*	18	*	7	*	7	*
409	4	9"	II	8	*	14	*	19	*	8	*	8	*
410	4	12"	II	7	*	13	*	18	*	7	*	7	*
411	4	12"	II	7	*	13	*	18	*	7	*	7	*
412	4	12"	II	7	*	13	*	18	*	7	*	7	*
413	4	9"	II	8	*	14	*	19	*	8	*	8	*
501	5	5/2"	IV	11	3'-4"	22	3'-4"	33	3'-4"	22	3'-4"	33	3'-4"
502	5	5/2"	III	11	3'-4"	22	3'-4"	33	3'-4"	11	11'-5"	17	11'-5"
503	5	5/2"	II	5	3'-6"	16	3'-6"	27	3'-6"	6	3'-6"	6	3'-6"
504	5	5/2"	IK	1	10'-0"	1	10'-0"	1	10'-0"	1	10'-0"	1	10'-0"

TABLE ONE ~ BAR LIST FOR CURB INLETS, TYPE "R"

H"	LENGTH	REGULAR		DROP BOX		L = 5 FT.		L = 10 FT.		L = 15 FT.	
		REGULAR	DROP BOX	CONC. STEEL LBS.	CONC. STEEL LBS.	CONC. STEEL LBS.	CONC. STEEL LBS.	CONC. STEEL LBS.	CONC. STEEL LBS.	CONC. STEEL LBS.	CONC. STEEL LBS.
3'-0"	2'-8"	1'-8"	10	7	3.2	285	5.3	497	7.4	706	
3'-0"	3'-2"	2'-2"	10	7	3.4	305	5.7	528	7.9	747	
4'-0"	3'-8"	2'-8"	12	9	3.7	326	6.0	559	8.4	786	
4'-0"	4'-2"	3'-2"	12	9	4.1	354	6.4	571	8.8	803	
5'-0"	4'-8"	3'-8"	14	11	4.1	354	6.7	602	9.3	844	
5'-0"	5'-2"	4'-2"	16	13	4.4	375	6.9	607	7.4	850	
6'-0"	5'-8"	4'-8"	18	15	4.6	382	6.2	616	7.6	860	
6'-0"	6'-2"	5'-2"	18	15	4.8	402	6.4	637	7.8	880	
7'-0"	6'-8"	5'-8"	24	21	5.0	423	6.6	654	8.0	897	
7'-0"	7'-2"	6'-2"	24	21	5.3	450	6.9	664	8.3	897	
8'-0"	7'-8"	6'-8"	32	29	5.5	450	7.1	684	8.5	927	
8'-0"	8'-2"	7'-2"	32	29	5.7	471	7.3	702	8.7	944	
9'-0"	8'-8"	7'-8"	36	34	5.9	479	7.6	711	9.0	954	
9'-0"	9'-2"	8'-2"	36	34	6.2	499	7.8	732	9.2	974	
10'-0"	9'-8"	8'-8"	42	41	6.4	500	8.0	749	9.4	992	
10'-0"	10'-2"	9'-2"	42	41	6.7	527	8.3	759	9.7	1003	
11'-0"	10'-8"	9'-8"	50	49	6.9	547	8.5	779	9.9	1022	

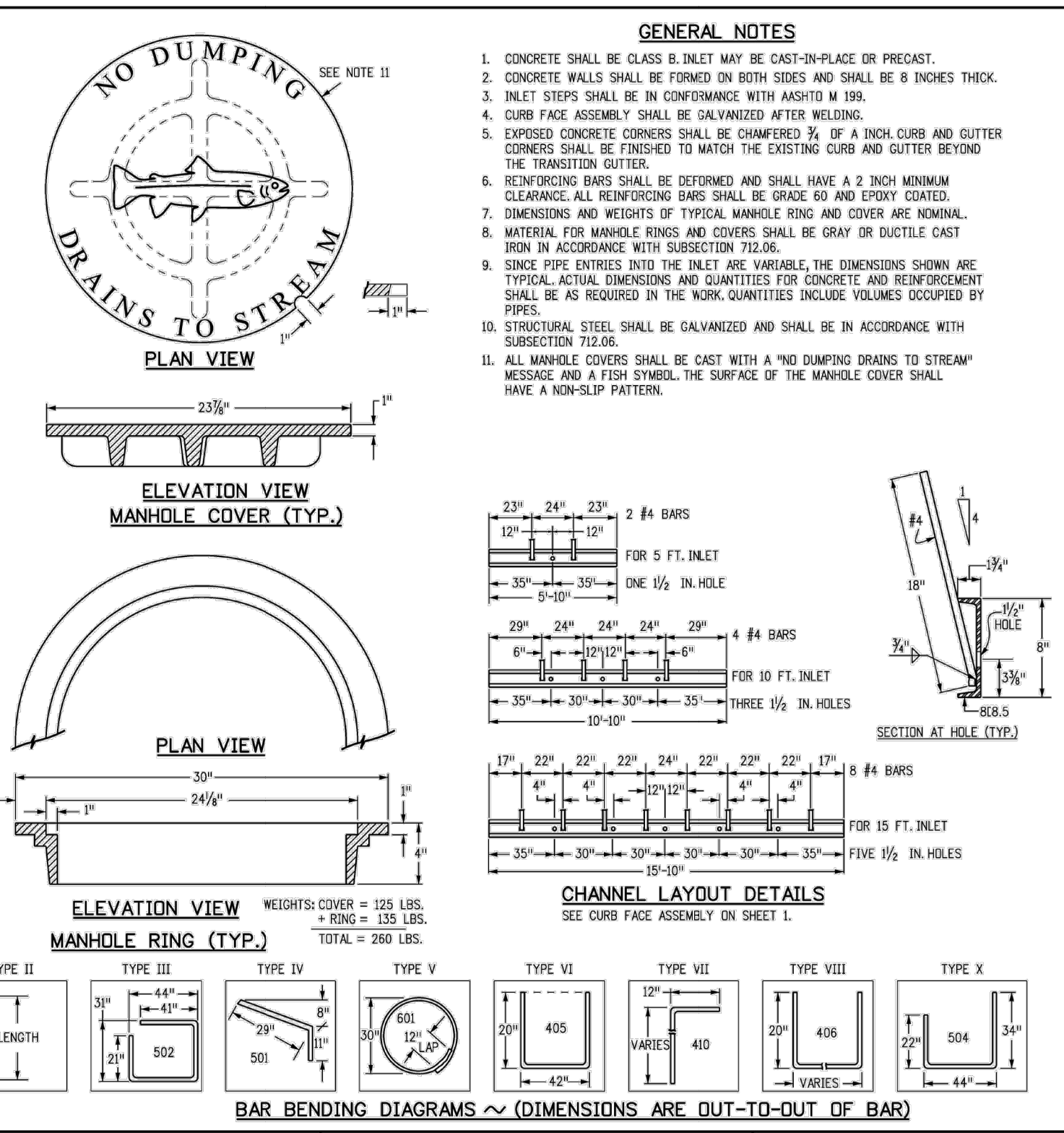


TABLE TWO ~ BARS AND QUANTITIES VARIABLE WITH "H"

H"	LENGTH	REGULAR		DROP BOX		L = 5 FT.		L = 10 FT.		L = 15 FT.	
		REGULAR	DROP BOX	CONC. STEEL LBS.	CONC. STEEL LBS.	CONC. STEEL LBS.	CONC. STEEL LBS.	CONC. STEEL LBS.	CONC. STEEL LBS.	CONC. STEEL LBS.	CONC. STEEL LBS.
3'-0"	2'-8"	1'-8"	10	7	3.2	285	5.3	497	7.4	706	
3'-0"	3'-2"	2'-2"	10	7	3.4	305	5.7	528	7.9	747	
4'-0"	3'-8"	2'-8"	12	9	3.7	326	6.0	559	8.4	786	
4'-0"	4'-2"	3'-2"	12	9	4.1	354	6.4	571	8.8	803	
5'-0"	4'-8"	3'-8"	14	11	4.1	354	6.7	602	9.3	844	
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6'-0"	5'-8"	4'-8"	18	15	4.6	382	6.2	616	7.6	860	
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8'-0"	7'-8"	6'-8"	32	29	5.5	450	7.1	684	8.5	927	
8'-0"	8'-2"	7'-2"	32	29	5.7	471	7.3	702	8.7	944	
9'-0"	8'-8"	7'-8"	36	34	5.9	479	7.6	711	9.0	954	
9'-0"	9'-2"	8'-2"	36	34	6.2	499	7.8	732	9.2	974	
10'-0"	9'-8"	8'-8"	42	41	6.4	500	8.0	749	9.4	992	
10'-0"	10'-2"	9'-2"	42	41	6.7	527	8.3	759	9.7	1003	
11'-0"	10'-8"	9'-8"	50	49	6.9	547	8.5	779	9.9	1022	

Computer File Information

Creation Date: 07/31/19
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 CAD Ver: MicroStation V8

Sheet Revisions

Date:	Comments:

Colorado Department of Transportation
 2829 West Howard Place
 COIT, 3rd Floor
 Denver, CO 80204
 Phon: 303-757-9021 FAX: 303-757-9868

Project Development Branch JBK

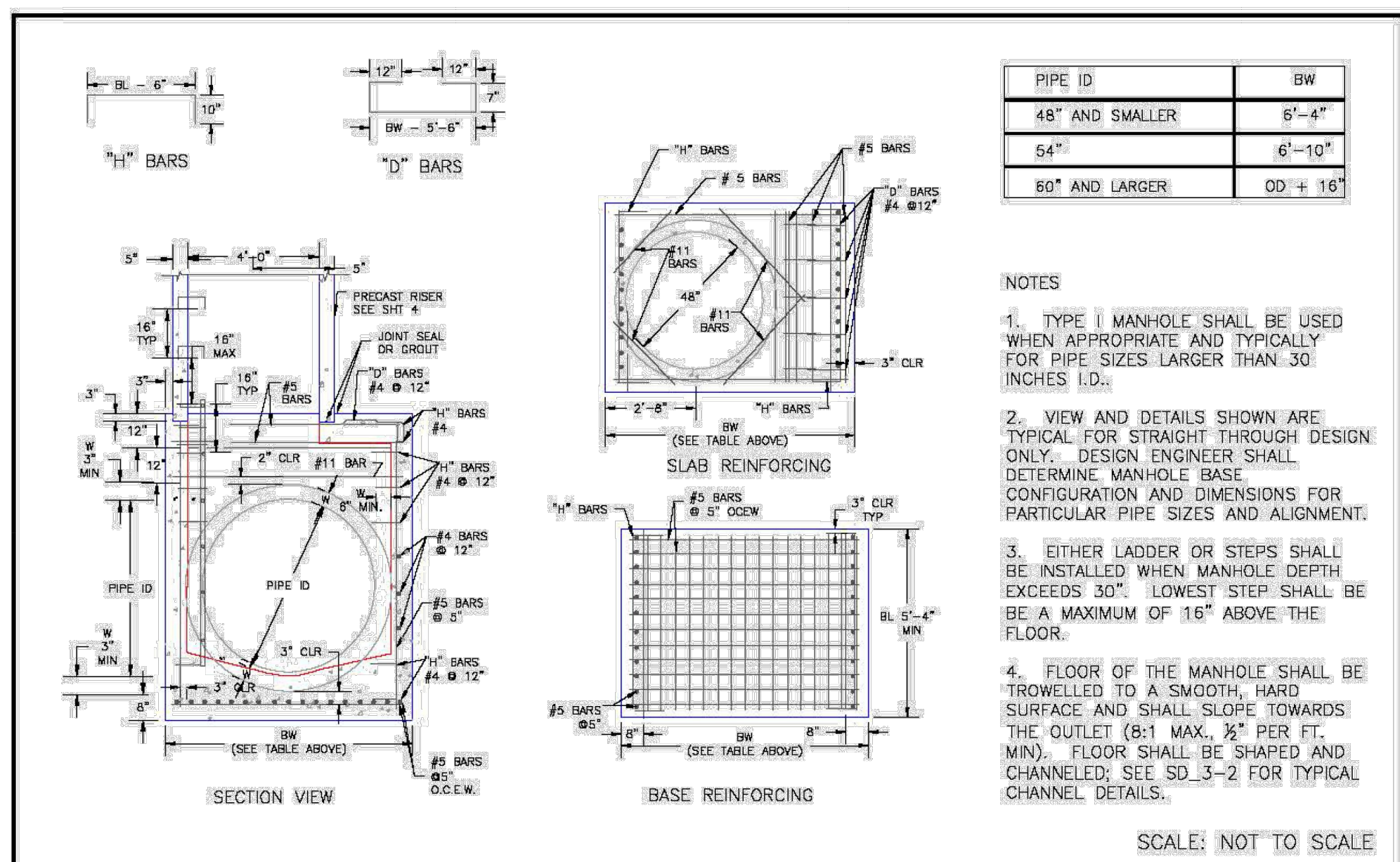
CURB INLET TYPE R

STANDARD PLAN NO. M-604-12

Standard Sheet No. 2 of 2

Issued by the Project Development Branch: July 31, 2019

- ENGINEERING CRITERIA MANUAL
 Appendix F STANDARD DRAWINGS



7/9/09

Storm Sewer Manhole Detail
 Type I
 Standard Drawing

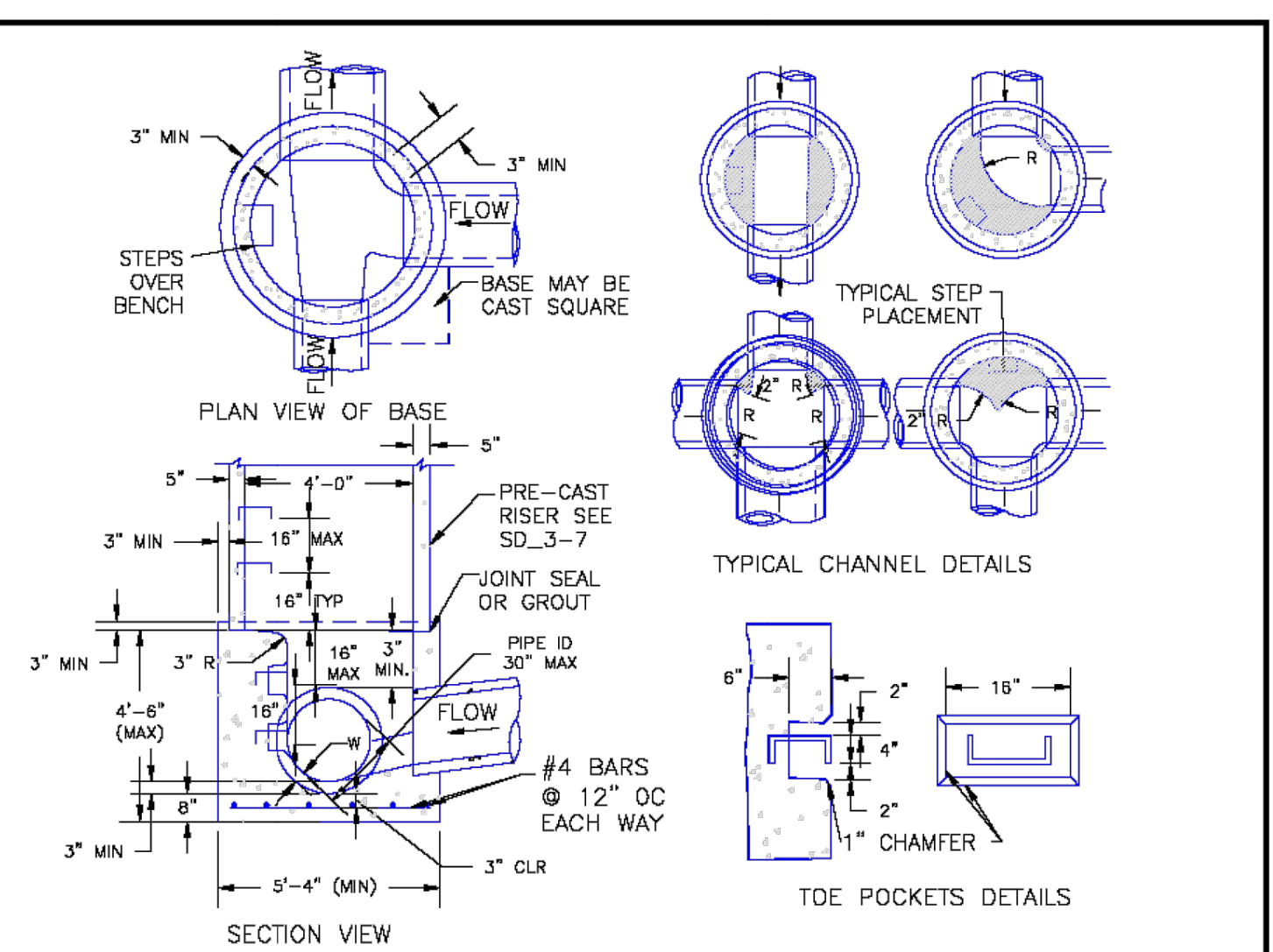
André Brackin

REVISION DATE: 7/9/09

FILE NAME: SD_3-1

El Paso County, Colorado
 DEPARTMENT OF TRANSPORTATION

- ENGINEERING CRITERIA MANUAL
 Appendix F STANDARD DRAWINGS



- NOTES:**
- TYPE II MANHOLES SHALL BE USED WHEN APPROPRIATE AND TYPICALLY WHEN THE PIPE SIZES ARE 30" OR LESS INSIDE DIAMETER.
 - VIEW AND DETAILS ARE TYPICAL. DESIGN ENGINEER SHALL DETERMINE MANHOLE BASE CONFIGURATION AND DIMENSIONS FOR PARTICULAR PIPE SIZES AND ALIGNMENT.
 - EITHER LADDER OR STEPS SHALL BE INSTALLED WHEN MANHOLE DEPTH EXCEEDS 30". STEPS IN BASE SHALL BE INSTALLED IN "TOE POCKETS" (SEE DETAIL THIS SHEET). LOWEST STEP SHALL BE A MAXIMUM OF 16" ABOVE THE FLOOR.
 - PIPES SHALL BE TRIMMED TO FINAL SHAPE AND SET BEFORE MANHOLE IS POURED.
 - BENCH SHALL BE SLOPED TOWARD CENTER OF MANHOLE BASE (4:1 MAX., 1/2" PER FOOT. MIN.).
 - FLOOR OF MANHOLE SHALL BE TROWELLED TO A SMOOTH, HARD SURFACE AND SHALL SLOPE TOWARDS THE OUTLET (8:1, 1/2" PER FT. MIN.). FLOOR SHALL BE SHAPED AND CHANNELLED; SEE DETAILS THIS SHEET.

El Paso County, Colorado
 (Supp. No. 2)

ENGINEER'S STATEMENT
 STANDARD DETAILS SHOWN WERE REVIEWED ONLY AS TO THEIR APPLICATION ON THIS PROJECT

RYAN E. BURNS, P.E.
 COLORADO P.E. 0054412
 FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING, LLC

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, ALL TERRAIN ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

DATE	
REVISION	
DESCRIPTION	

MARKSHEFFEL ROAD SEGMENT M3

EPC STORM DETAILS

DESIGN: REB
 REVIEW: NOJ
 DATE: 04/27/2026

H-SCALE: N/A
 V-SCALE: N/A

SHEET

7 OF 8

MARKSHEFFEL ROAD - SEGMENT 3 CD

EL PASO COUNTY, COLORADO

PERMANENT CONTROL MEASURE CONSTRUCTION DRAWINGS

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 ONSITE AND OFFSITE, 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 PCD 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.



VICINITY MAP
SCALE: 1"=1000'

SHEET INDEX

- 1 - COVER SHEET
- 2 - LEGEND
- 3 - POND GRADING
- 4 - FOREBAY #1 DETAILS
- 5 - OUTLET STRUCTURE DETAILS
- 6 - OUTLET STRUCTURE DETAILS (CONT.)

AGENCIES

<p>OWNER/DEVELOPER: TURKEY CANON QUARRY, LLC 20 BOULDER CRESCENT, SUITE 201 COLORADO SPRINGS, CO 80903 JAMES F. MORLEY (719) 471-1742</p> <p>CIVIL ENGINEER: ALL TERRAIN ENGINEERING LLC 1004 WEST VAN BUREN STREET COLORADO SPRINGS, CO 80907 RYAN BURNS P.E. 203.577.8656</p> <p>COUNTY ENGINEERING: EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, CO 80910 (719) 520-6300</p> <p>TRAFFIC ENGINEERING: EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS 3275 AKERS DRIVE COLORADO SPRINGS, CO 80922 (719) 520-6300</p>	<p>WATER & WASTEWATER: FALCON AREA WATER & WASTEWATER AUTHORITY ENGINEERS - RESPEC 5540 E. TECH CENTER DR. COLORADO SPRINGS, CO 80919 719.227.0072</p> <p>FIRE DISTRICT: BLACK FOREST FIRE PROTECTION DISTRICT 11445 TEACHOUT ROAD COLORADO SPRINGS, CO 80908 CHIEF BRYAN JACK (719) 495-4300</p> <p>GAS DEPARTMENT: COLORADO SPRINGS UTILITIES 7710 DURANT DR. COLORADO SPRINGS, CO 80947 TIM WENDT (719) 668-3556</p> <p>ELECTRIC DEPARTMENT: MOUNTAIN VIEW ELECTRIC 11140 E. WOODMEN ROAD FALCON, CO 80831 (719) 495-2283</p>
--	--

BASIS OF BEARINGS

THE NORTH LINE OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 5, TOWNSHIP 13 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, BEING MONUMENTED AT THE NORTHEAST CORNER OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 5, BY A 3-1/4" ALUMINUM CAP STAMPED "LS 10376" AND AT THE NORTH QUARTER CORNER BY A 3-1/4" ALUMINUM CAP STAMPED "LS 4842 1996", BEARING S89°14'13"W.

BENCHMARKS

1. THE TOP OF AN ALUMINUM SURVEYORS CAP, STAMPED "9853", AT THE SOUTHEAST BOUNDARY CORNER OF BARBARICK SUBDIVISION
NORTHING = 411416.273
EASTING = 235167.071
ELEVATION = 7023.42
2. THE TOP OF A RED PLASTIC SURVEYORS CAP, ILLEGIBLE, AT THE NORTHWEST BOUNDARY CORNER OF PAWNEE RANCHEROS SUBDIVISION
NORTHING = 410095.404
EASTING = 235052.131
ELEVATION = 7000.40
3. THE TOP OF A RED PLASTIC SURVEYORS CAP, STAMPED "38141", AT THE SOUTHWEST BOUNDARY CORNER OF BARBARICK SUBDIVISION
NORTHING = 411399.962
EASTING = 233849.817
ELEVATION = 7030.82

OWNER/DEVELOPER STATEMENT

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

JIM MORLEY _____ DATE _____

TURKEY CANON QUARRY LLC
20 BOULDER CRESCENT, SUITE 200
COLORADO SPRINGS, CO 80903

DISTRICT APPROVALS

THESE DOCUMENTS HAVE BEEN REVIEWED AND APPROVED FOR STORM DRAIN AND ASSOCIATED UTILITY SERVICE CONSTRUCTION.

FOR AND ON BEHALF OF THE STONEBRIDGE METRO DISTRICT _____ DATE _____

EL PASO COUNTY 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 THE 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 J. PALMER, P.E. _____ DATE _____

COUNTY ENGINEER/ECM ADMINISTRATOR

ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECT 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 APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLAN 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 THESE DETAILED PLANS AND SPECIFICATIONS.

RYAN E. BURNS, P.E. _____ DATE _____

COLORADO P.E. 54412
FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

REV	DESCRIPTION	DATE

LOCATION: EPC

JOB NO: 24013

MARKSHEFFEL ROAD - SEGMENT 3 CD

COVER SHEET

DESIGN: REB
REVIEW: NOJ
DATE: 07/01/2024

H-SCALE: 1"=1000'

V-SCALE: N/A

SHEET

1 OF 6



Know what's below.
Call before you dig.

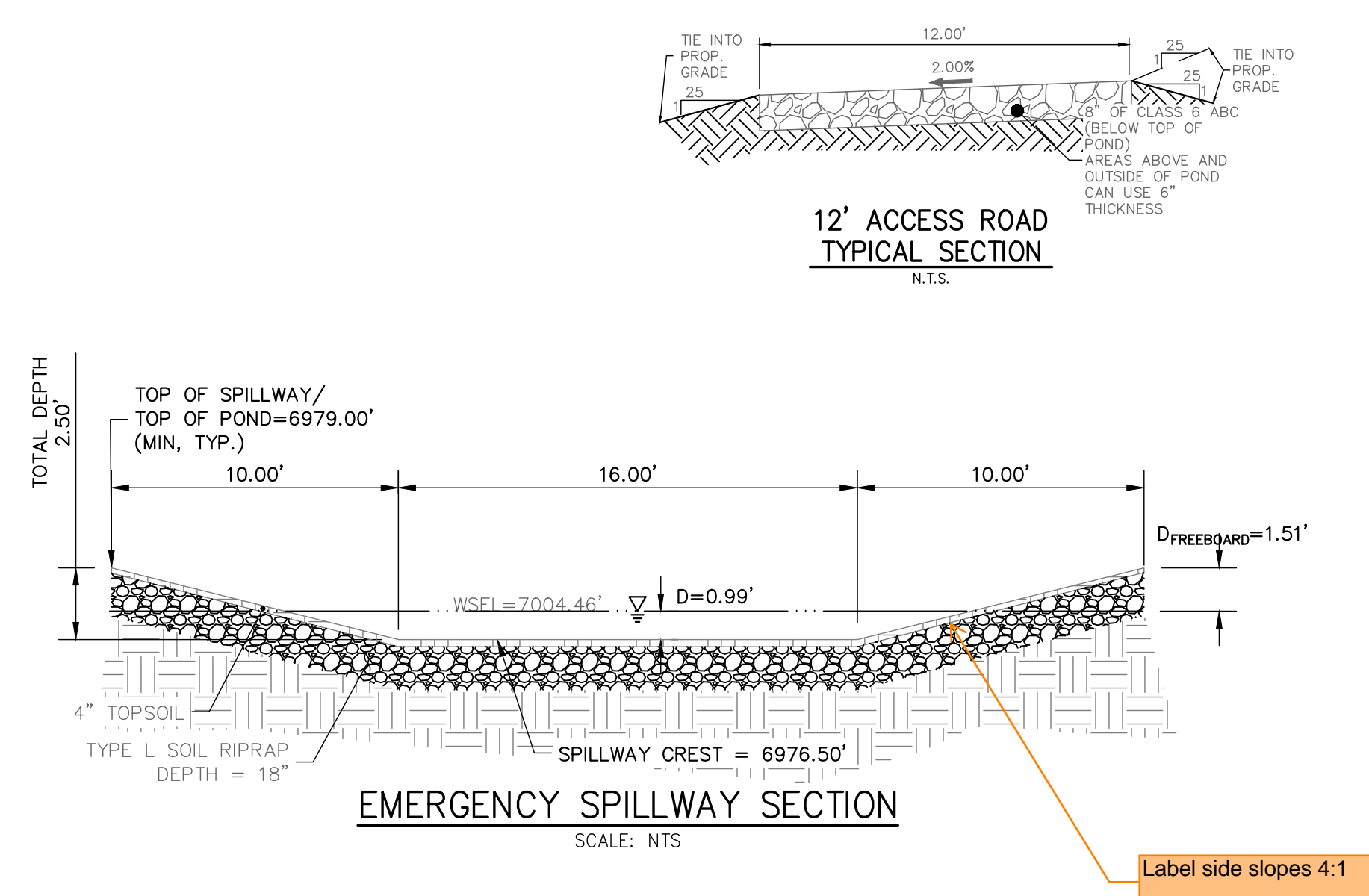
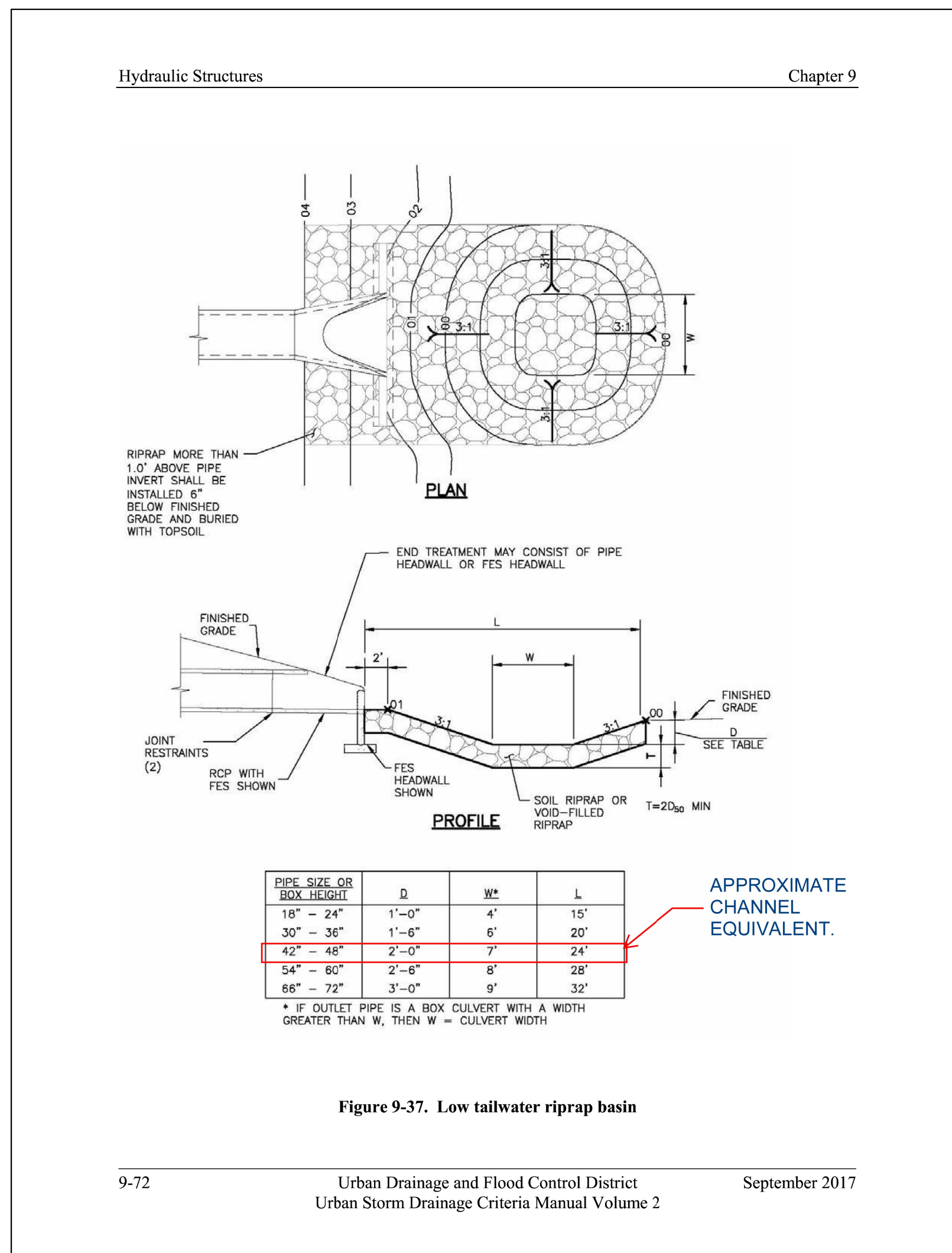
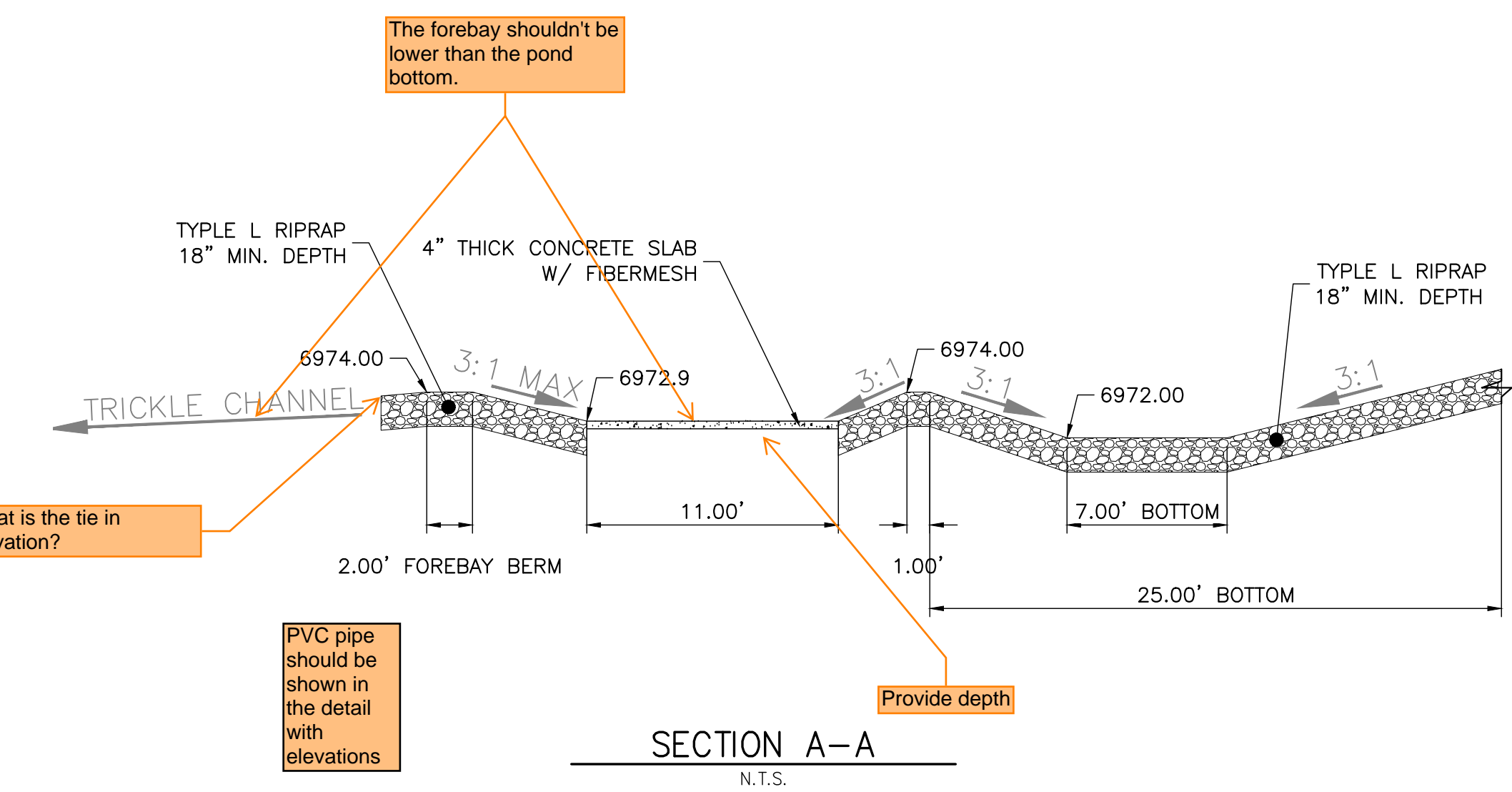
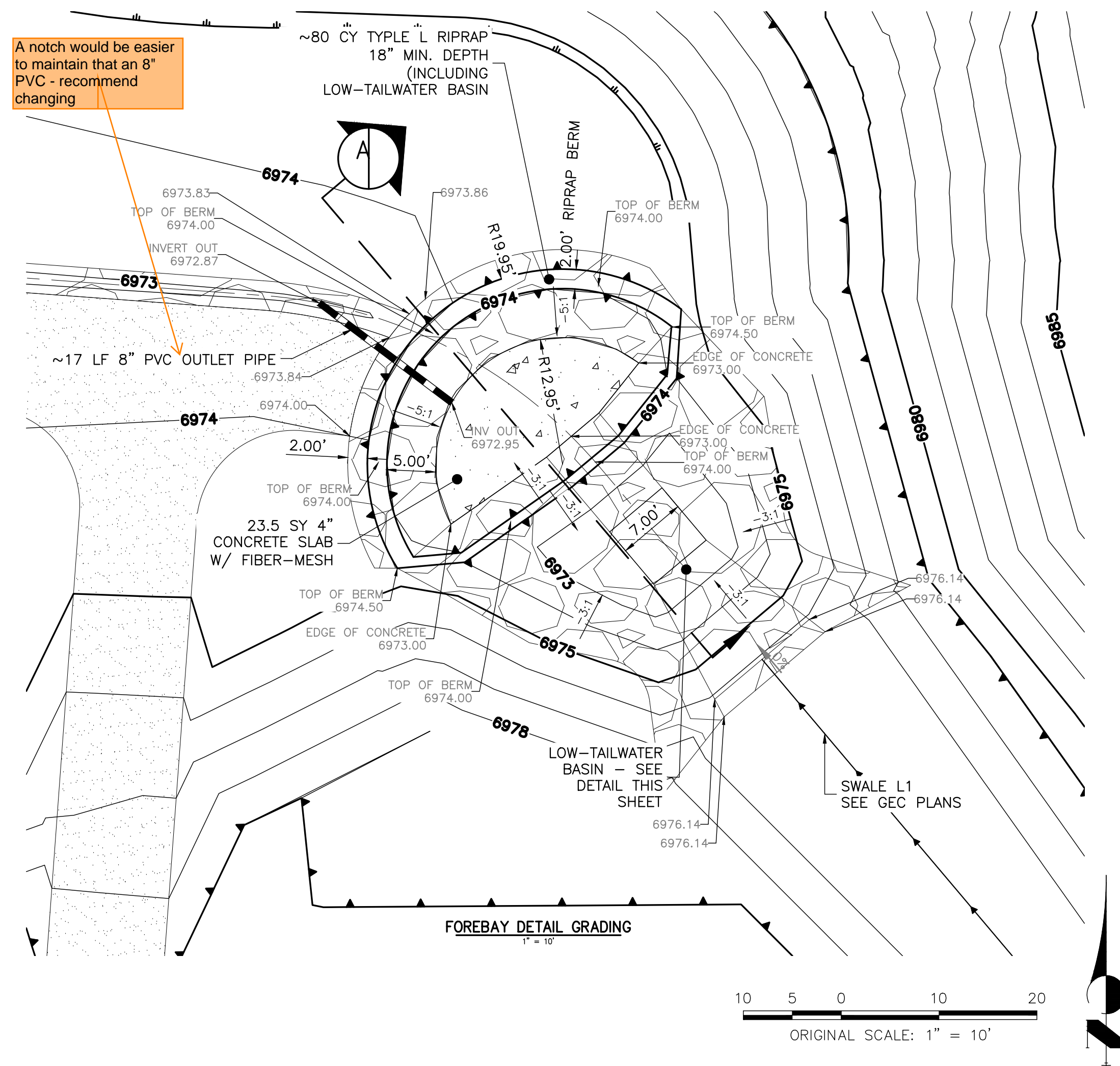
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PCD FILE NO. CDR-2413



RYAN E. BURNS, P.E.
54412
ALL TERRAIN ENGINEERING, LLC

PREPARED FOR:
TURKEY CANON QUARRY, LLC
20 BOULDER CRESCENT, SUITE 201
COLORADO SPRINGS, CO 80903
ATTN: JIM MORLEY
(719) 471-1742
JMORLEY3670@AOL.COM

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ENGINEER'S STATEMENT
 PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF ALL TERRAIN ENGINEERING

RYAN E. BURNS, P.E. DATE
 COLORADO P.E. 54412
 FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

ALL TERRAIN ENGINEERING

PREPARED FOR:
 TURKEY CANON QUARRY INC
 20 BOULDER CRESCENT STREET, SUITE 100
 COLORADO SPRINGS, CO 80903
 ATTN: JIM MORLEY
 (719) 491-3024
 JIMORLEY3870@AOL.COM

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, ALL TERRAIN ENGINEERING APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.

REV	DESCRIPTION	DATE

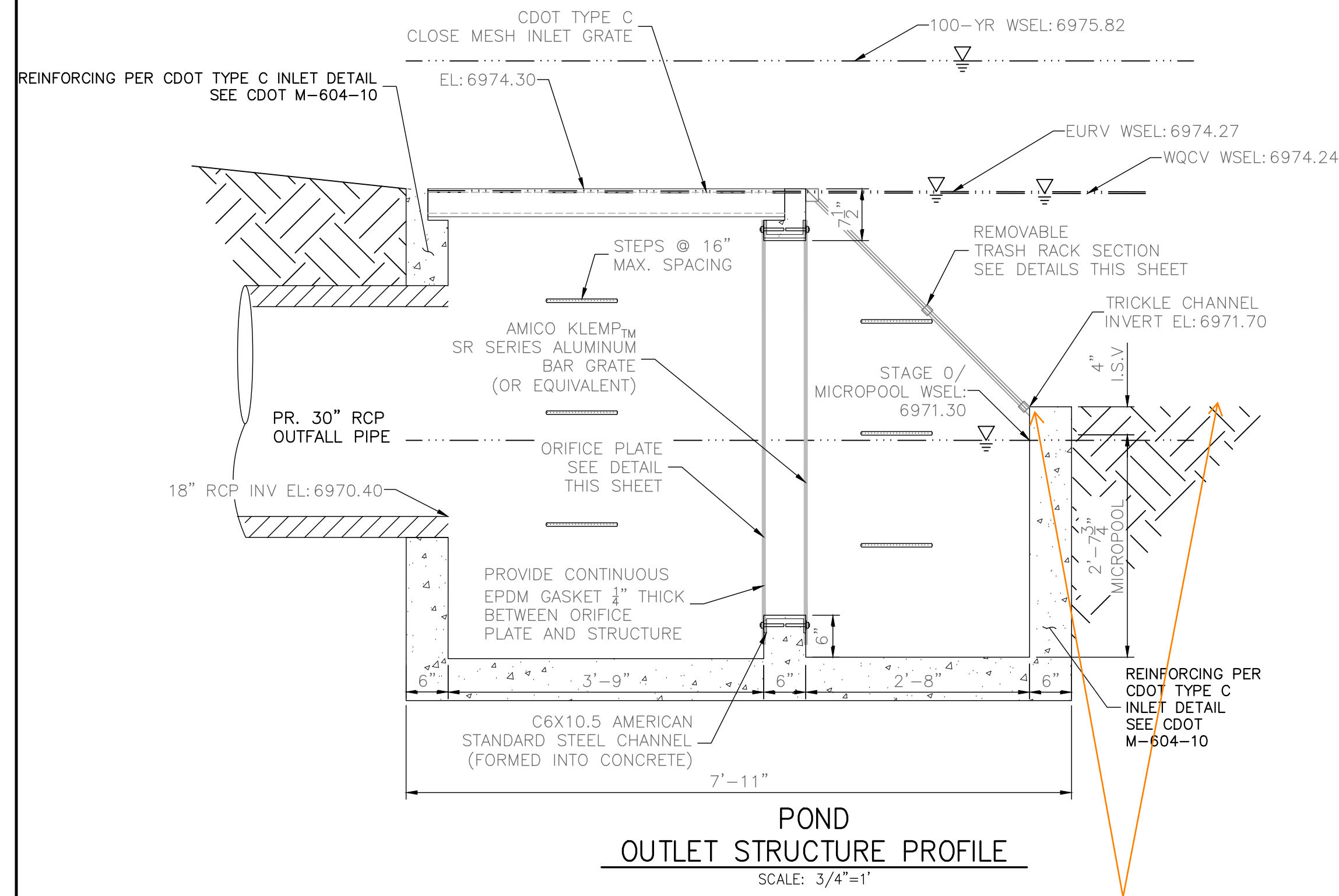
JOB NO: 24013 LOCATION: EPC

MARKSHEFFEL ROAD - SEGMENT 3 CD

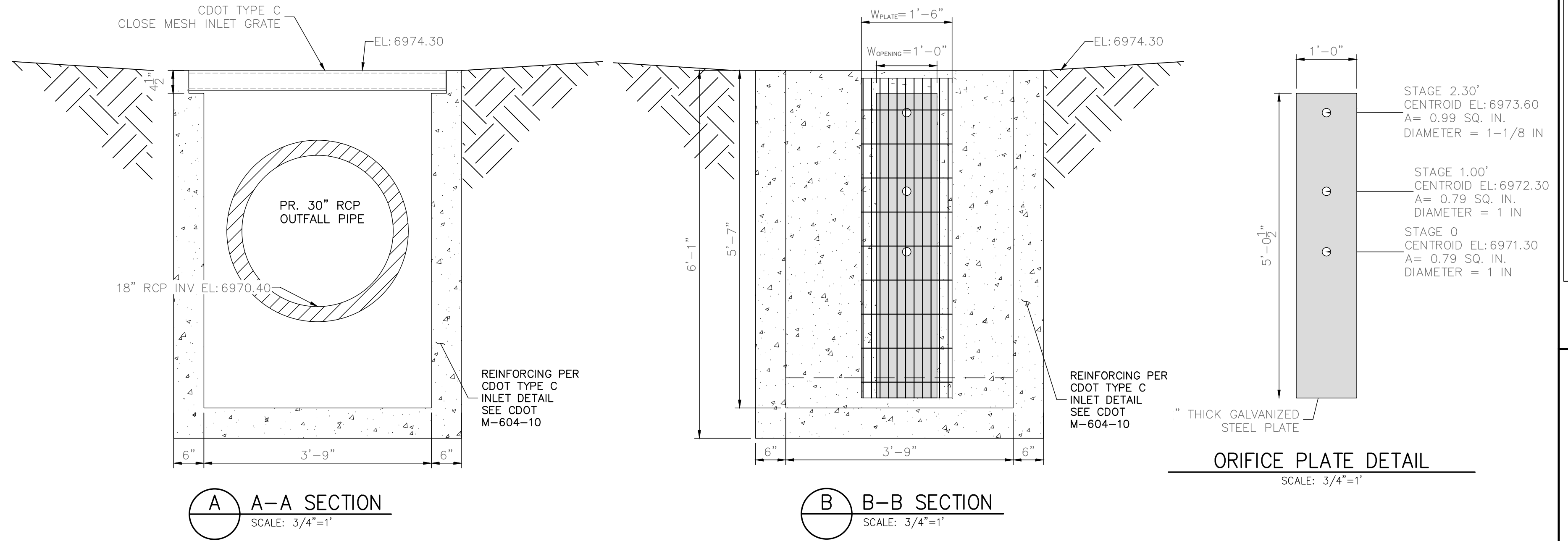
FOREBAY #1 DETAILS

DESIGN: REB
 REVIEW: NOJ
 DATE: 04/27/2026
 H-SCALE: VARIES
 V-SCALE: VARIES

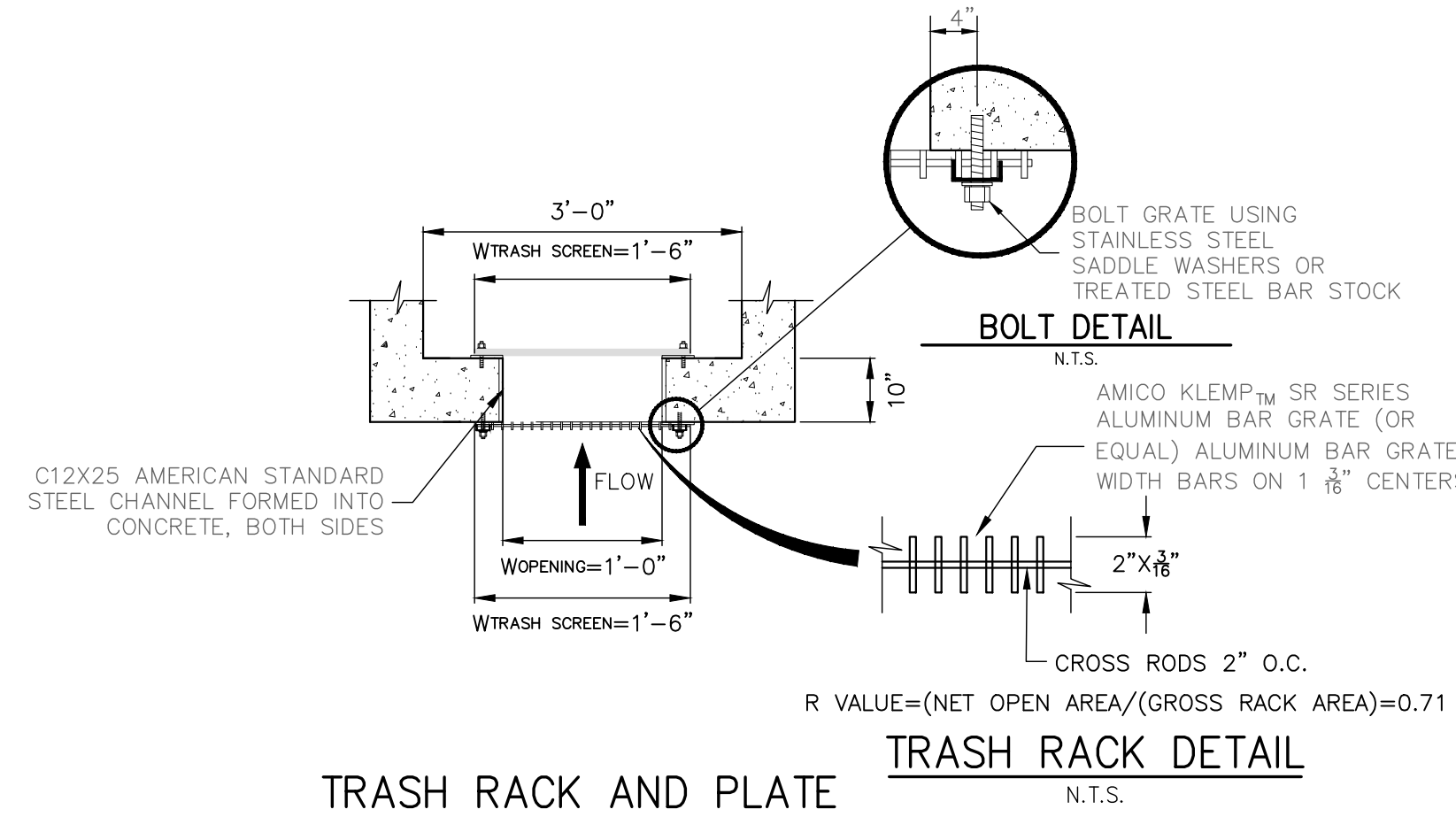
SHEET
 4 OF 6



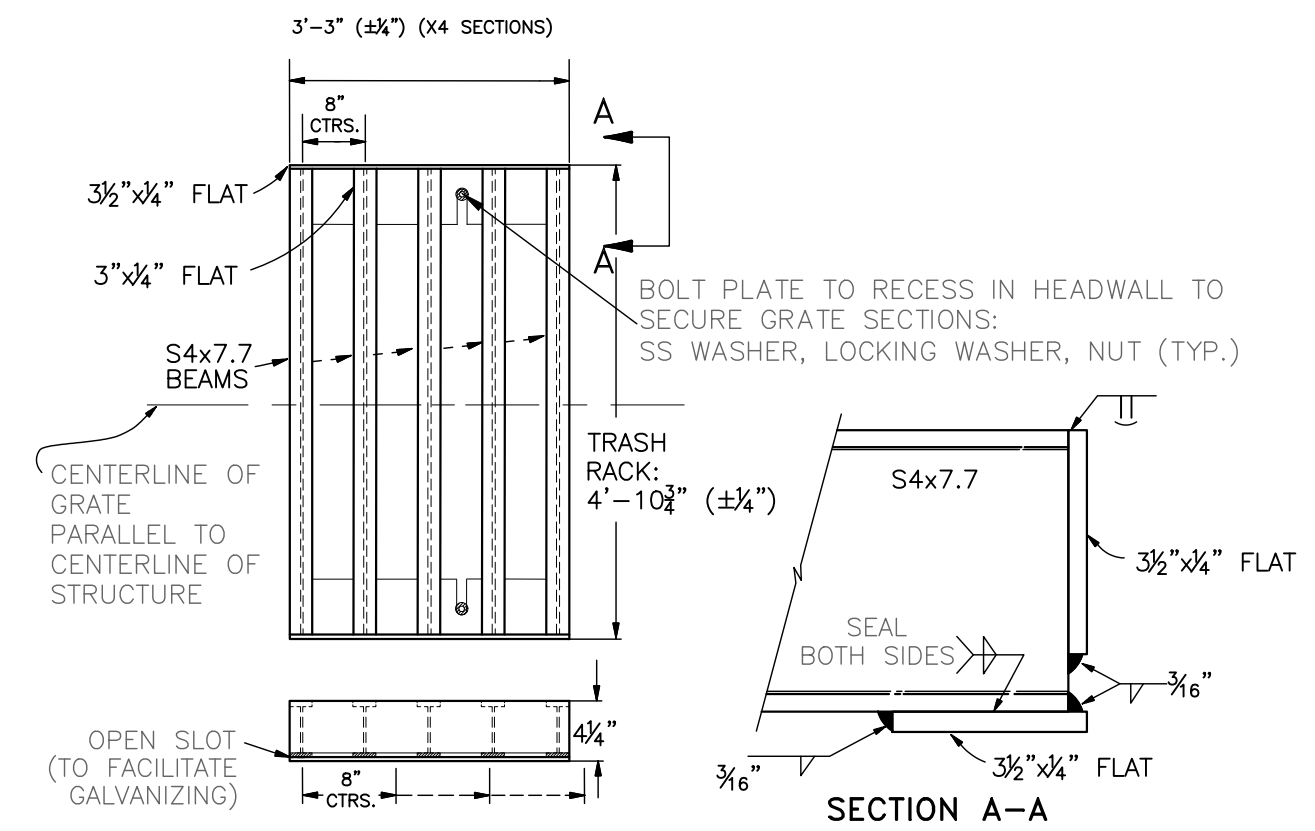
Provide detail on how the triangular trickle curb microchannel will tie-into the concrete square curb microchannel. This location labeled invert should be the top of the trickle channel so the trickle channel is flush with the pond bottom. With this detail it appears the trickle channel would be floating above the pond bottom and with similar details we have seen triangular trickle channels are built that way.



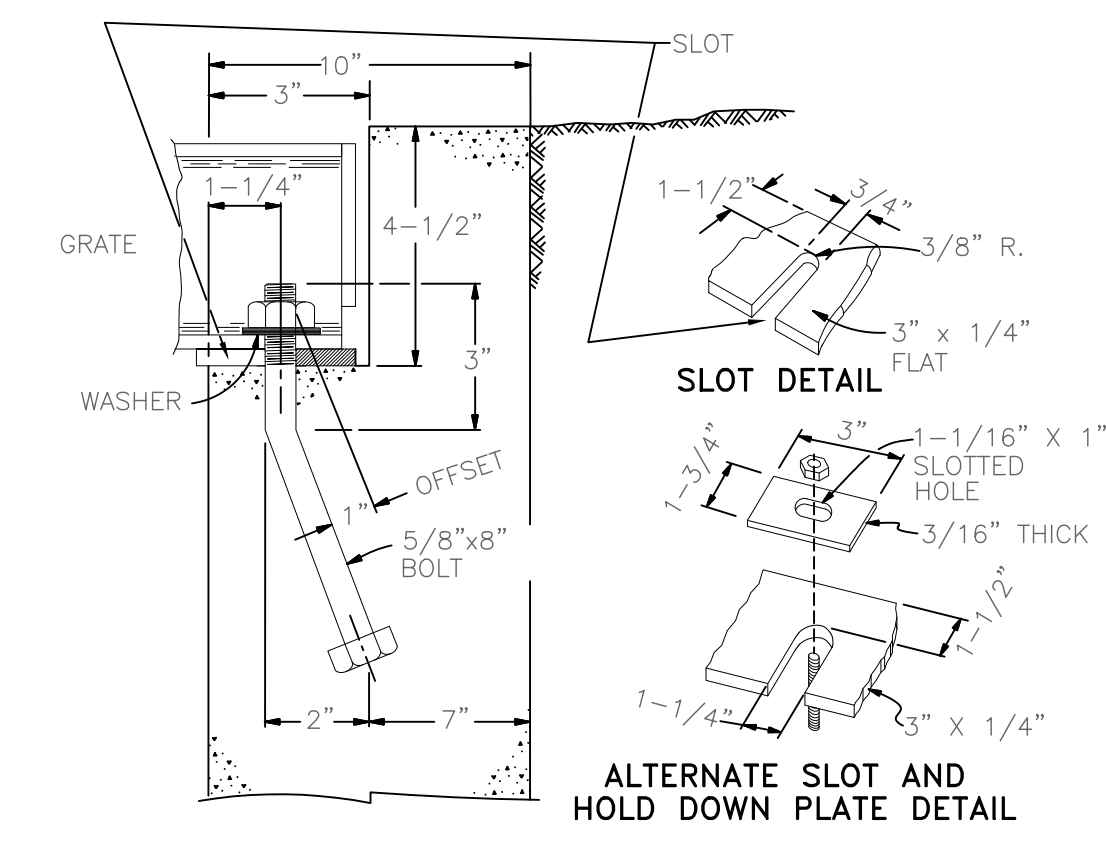
ORIFICE PLATE DETAIL
SCALE: 3/4\"/>



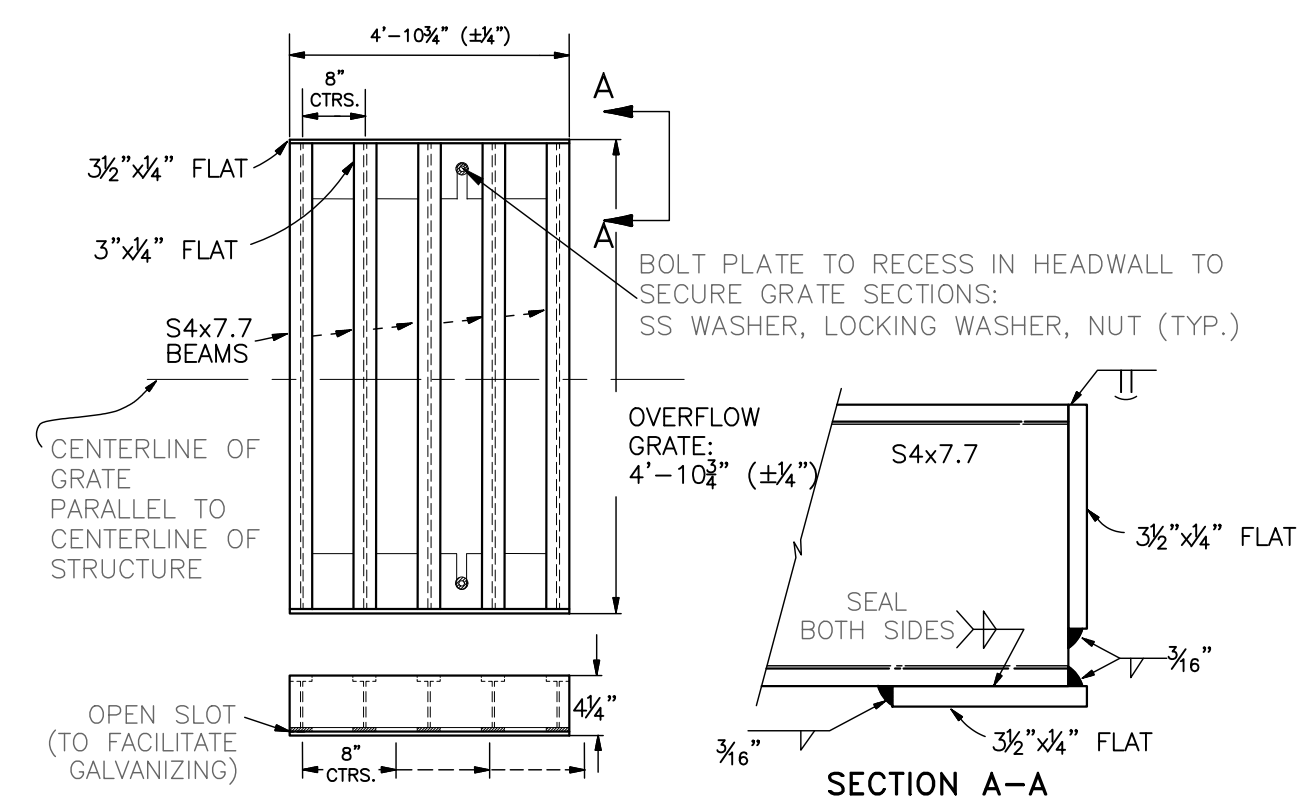
TRASH RACK AND PLATE DETAIL (PLAN)
N.T.S.



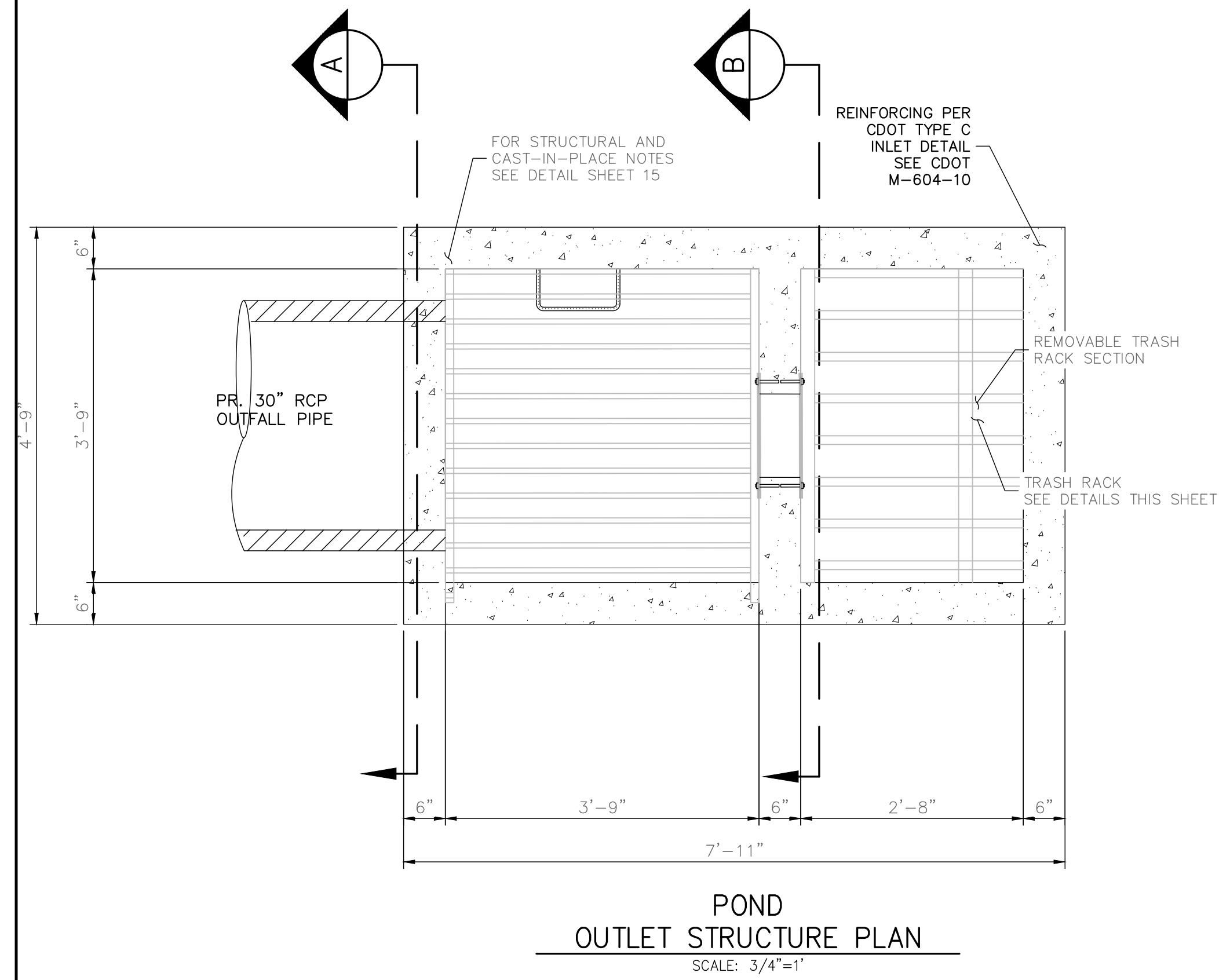
TRASH RACK DETAILS
N.T.S.



OVERFLOW GRATE/TRASH RACK INSTALLATION DETAIL
N.T.S.



OVERFLOW GRATE DETAILS
N.T.S.



POND OUTLET STRUCTURE PLAN
SCALE: 3/4\"/>



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DATE	DESCRIPTION

MARKSHEFFEL ROAD - SEGMENT 3 CD
OUTLET STRUCTURE DETAILS

ENGINEER'S STATEMENT
PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF ALL TERRAIN ENGINEERING
RYAN E. BURNS, P.E.
COLORADO P.E. 54412
FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

DESIGN: REB
REVIEW: NOJ
DATE: 04/27/2026
H-SCALE: 3/4\"/>

GENERAL STRUCTURE NOTES:

ALL WORK SHALL BE DONE IN ACCORDANCE WITH CITY OR COUNTY STANDARD CONSTRUCTION SPECIFICATIONS. EXCEPT AS SHOWN IN THE PLANS, STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH CDOT M-206-1, AND M-206-2 EXPANSION JOINT MATERIAL SHALL MEET AASHTO SPECIFICATION M-213

THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 AT LEAST 2 DAYS (NOT INCLUDING THE DAY OF NOTIFICATION) PRIOR TO ANY EXCAVATION OF OTHER.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DESIGNING AND PROVIDING ALL BRACING AND SHORING AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE EXCAVATION PROCEDURES INCLUDING ANY SHORING REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL METHODS AND MEANS OF CONSTRUCTION AS WELL AS ALL JOB SITE SAFETY & HEALTH PRECAUTIONS.

ALL SOILS WORK INCLUDING (BUT NOT LIMITED TO) PIER DRILLING AND CONSTRUCTION, SOILS EXCAVATION, FILL PLACEMENT, AND STRUCTURE BACKFILL SHALL BE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT, UNLESS MORE STRINGENT REQUIREMENTS ARE PRINTED ON THE "IRRIGATION NOTES".

BACKFILL SHALL NOT BEGIN UNTIL CONCRETE WALLS REACH COMPRESSION STRENGTH AT LEAST 80 PERCENT OF THE REQUIRED 28 DAY STRENGTH, 0.81c'.

REINFORCED CONCRETE:
 CLASS D CONCRETE: $f_c = 4,500$ psi
 REINFORCING STEEL: $f_y = 60,000$ psi
 ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS D UNLESS NOTED OTHERWISE.

REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60 U.N.O.
 REINFORCING BARS TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60.
 ALL REINFORCING, EXCEPT PIER REINFORCING, SHALL BE EPOXY COATED AND SHALL CONFORM TO ASTM A775.
 ALL REINFORCING SHALL HAVE 2" CONCRETE COVER, U.N.O. ON PLANS, 3" AGAINST GROUND (BOTTOM SLAB).
 ALL REINFORCING SHALL BE HOOKED AROUND CORNERS AND LAPPED, SEE DETAILS.
 ALL LAP SPLICE LOCATIONS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

THE FOLLOWING TABLE GIVES THE MINIMUM CLASS B (STAGGERED) LAP SPLICE LENGTH FOR EPOXY COATED REINFORCING BARS PLACE IN ACCORDANCE WITH SUBSECTION 602.06. THESE SPLICE LENGTHS SHALL BE INCREASED BY 25% FOR BARS SPACED AT LESS THAN 6" ON CENTER. INCREASED BY 40% FOR HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW (TOP BARS.), AND INCREASED BY 75% IF BOTH CONDITIONS EXIST. THE INCREASES ABOVE FOR #6 THRU #11 BARS MAY BE 25%, 13%, AND 42% RESPECTIVELY.

BAR SIZE	SPLICE LENGTH	BAR SIZE	SPLICE LENGTH
#4	1'-3"	#5	1'-7"
#6	2'-5"	#7	2'-10"
#8	3'-8"	#9	4'-8"
#10	5'-11"	#11	7'-3"

WHEN THE CONTRACTOR ELECTS TO SUBSTITUTE EPOXY COATED REINFORCEMENT FOR BLACK REINFORCING BARS. THE MINIMUM LAP SPLICE SHALL BE AS DESCRIBED ABOVE.

STATIONS, ELEVATIONS, AND DIMENSIONS CONTAINED IN THESE PLANS ARE CALCULATED FROM A RECENT FIELD SURVEY. THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

THE CONTRACTOR SHALL SUBMIT REINFORCING STEEL PLACING DRAWINGS (PRIOR TO CONSTRUCTION) TO THE ENGINEER FOR REVIEW FOR CONFORMANCE WITH THE DESIGN DRAWINGS. THE DESIGN DRAWINGS SHALL GOVERN OVER PLACING DRAWINGS IN ALL CASES UNLESS MODIFICATIONS ARE APPROVED IN WRITING BY ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.

E.F. = EACH FACE
 F.E. = FAR FACE
 N.F. = NEAR FACE
 I.F. = INSIDE FACE
 T.W. = TWO WAY
 E.S. = EACH SIDE

O.F. = OUTSIDE FACE
 T.&B. = TOP AND BOTTOM
 T.F. = TOP FACE
 B.F. = BOTTOM FACE
 T.F. = TWO FACES
 Lp = LAP LENGTH

OUTLET STRUCTURE PLATE, GRATE, AND RAIL NOTES:

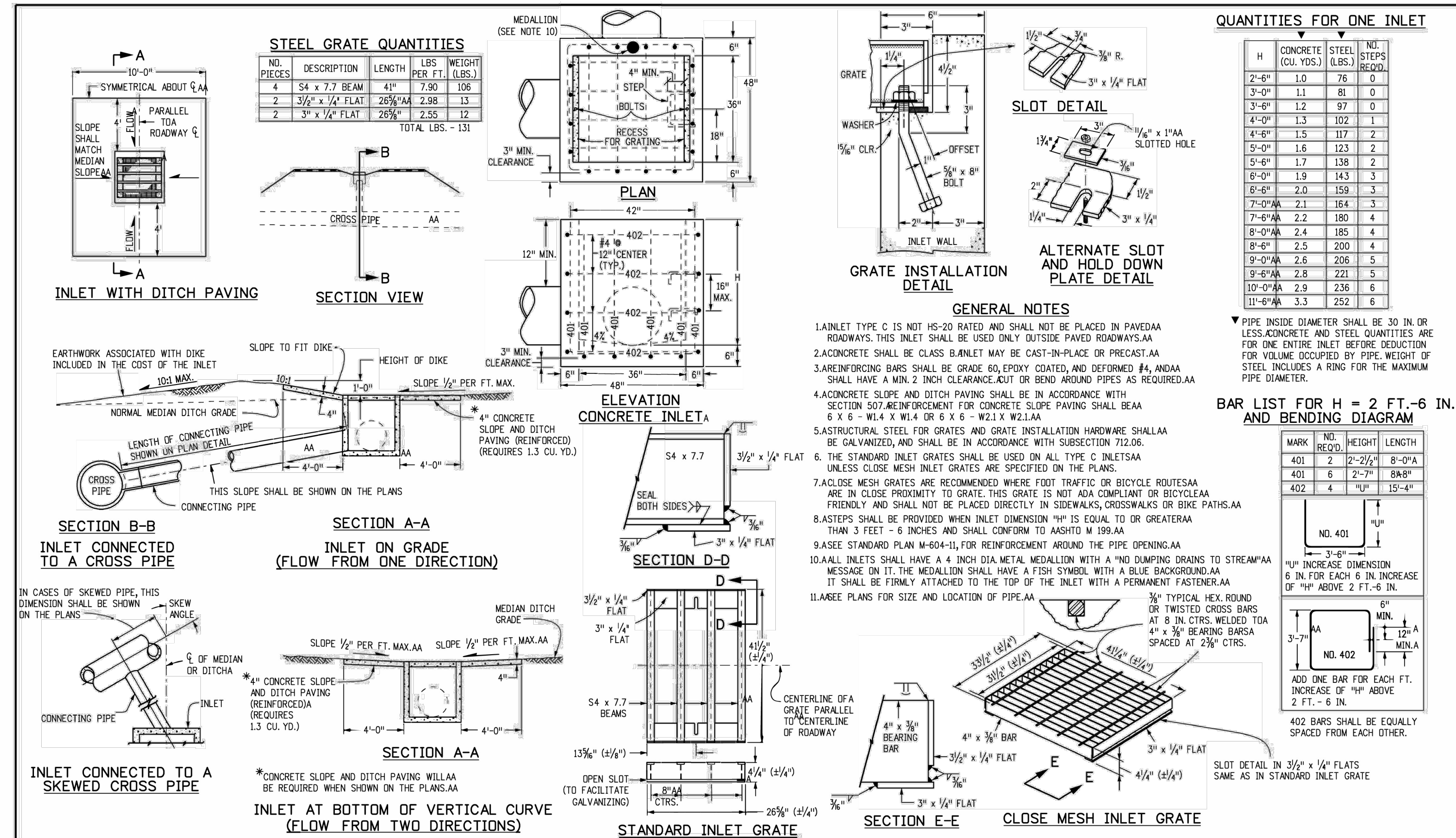
- ORIFICE PLATE:**
- PROVIDE CONTINUOUS EPDM GASKET 1/4" THICK BETWEEN ORIFICE PLATE AND STRUCTURE.
 - THE GASKET SHALL BE MADE OF 1/4-INCH THICK, 60 DUROMETER EPDM RUBBER IN A CONTINUOUS SHEET THE SIZE OF THE ORIFICE PLATE. THE SHEET SHALL BE PLACED BETWEEN THE ORIFICE PLATE AND THE CONCRETE WALL, WITH THE WIDTH OF THE OVERLAP BETWEEN THE PLATE AND THE CONCRETE. OPENINGS SHALL BE CUT INTO THE SHEET CORRESPONDING TO THE PLATE BOLT HOLES AND THE CONCRETE WALL OPENING. CUTS MADE EITHER BY THE CONTRACTOR IN THE FIELD OR BY THE MANUFACTURER. OR EQUIVALENT APPROVED BY EPC.
 - BOLT PLATE TO CONCRETE 12" MAX. ON CENTER.

- TRASH RACKS & GRATES:**
- RACKS AND GRATE OPEN AREAS ARE FOR THE SPECIFIED MATERIALS/MANUFACTURERS. ALTERNATIVE MANUFACTURERS AND MATERIALS WITH DIFFERING DIMENSIONS ARE ACCEPTABLE PROVIDED THEY MEET THE GROSS OPEN AREA RATIO (R VALUE) AND ARE CONSIDERED EQUAL BY THE ENGINEER AND EPC. SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PROCUREMENT.
 - TRASH RACKS SHALL BE 1 1/2" SCH.40 STEEL PIPE, GALVANIZED, @ 6" CENTERS. SUPPORT BARS SHALL BE 1/2"x2" STEEL RECTANGULAR BARS, GALVANIZED, @ 36". ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE.
 - REMOVABLE TRASH RACK SECTIONS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED & LOCKABLE OR BOLTABLE ACCESS PANELS AS SHOWN ON THE PLANS.
 - STEEL TRASH RACKS SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
 - STRUCTURAL STEEL FOR GRATES, ORIFICE PLATES, AND BARS SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH CDOT STANDARD SPECIFICATIONS, SUBSECTION 712.06.
 - ALL HARDWARE, BOLTS, AND FASTENERS SHALL BE STAINLESS STEEL.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PLATES AND GRATING FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.

- HAND RAILS:**
- WELD PLATES MAY BE SUBSTITUTED FOR PIPE EMBEDMENT.
 - STRUCTURES THAT CREATE A 30" OR GREATER DROP HEIGHT REQUIRE HAND RAILS FOR FALL PROTECTION.
 - CONTRACTOR TO ENSURE HANDRAIL DESIGN AND MOUNTING SYSTEM IS COMPATIBLE WITH HW/WW DESIGN AND REINFORCING.
 - DESIGN CRITERIA SHALL BE ACCORDANCE W/ AASHTO

CAST-IN-PLACE STRUCTURAL NOTES:

- ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED BEFORE FRESH CONCRETE IS POURED.
- ALL CONSTRUCTION JOINTS NOT SHOWN ON THE PLANS SHALL BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
- DO NOT BACKFILL UNTIL CONCRETE HAS REACHED DESIGN STRENGTH, f_c .
- ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4".
- CONTRACTOR SHALL SUBMIT STEEL REINFORCING SHOP DRAWINGS FOR ALL CAST-IN-PLACE STRUCTURES FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION. REINFORCING SHOWN IS FOR INFORMATION ONLY.
- REINFORCING AND WALLS SHALL BE PER CDOT-M-604-10.
- WALLS AND FLOOR TO BE POURED MONOLITHICALLY.
- REINFORCING STEEL SHALL BE GRADE 60 & MIN. SLICE LENGTHS PER CDOT STANDARDS AND APPLICABLE M-STANDARD DRAWINGS FOR HEADWALLS AND WINGWALLS
- SEE GENERAL STRUCTURE NOTES ON SHEET 4.



Computer File Information		Sheet Revisions		Colorado Department of Transportation		STANDARD PLAN NO.	
Creation Date: 07/31/19	Designer Initials: JBK	Date:	Comments:	2829 West Howard Place	M-604-10		Standard Sheet No. 1 of 1
Last Modification Date: 07/31/19	Detailer Initials: LTA			CDOT HQ, 3rd Floor	Project Sheet Number:		
CAD Ver: MetaStation V8	Scale: Not to Scale			Denver, CO 80204			
				Phone: 303-757-9021 FAX: 303-757-9868			
				Project Development Branch	JBK		



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JOB NO: 24013 LOCATION: EPC

REV	DESCRIPTION	DATE

MARKSHEFFEL ROAD - SEGMENT 3 CD

OUTLET STRUCTURE DETAILS (CONT.)

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DESIGN: REB
 REVIEW: NOJ
 DATE: 04/27/2026

H-SCALE: NTS
 V-SCALE: NTS

SHEET

RYAN E. BURNS, P.E. DATE
 COLORADO P.E. 54412
 FOR AND ON BEHALF OF ALL TERRAIN ENGINEERING LLC

6 OF 6