

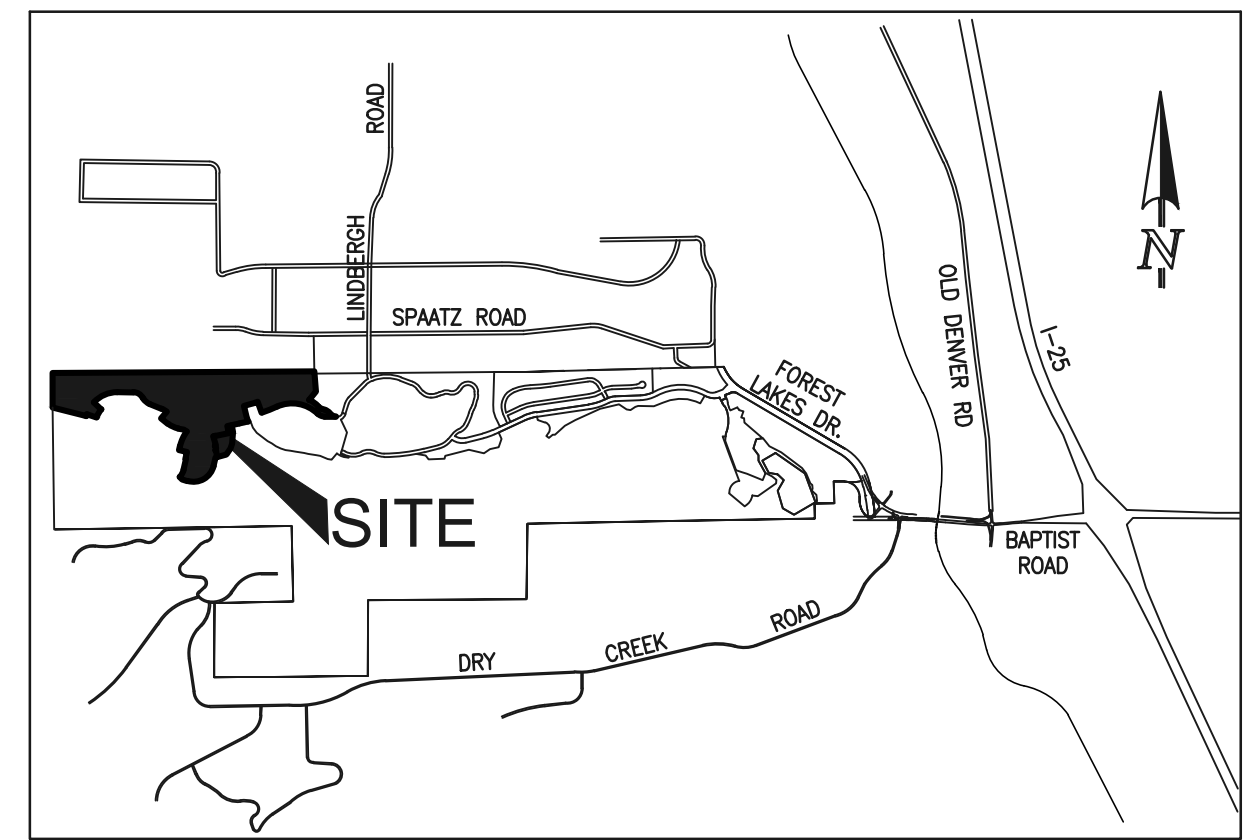
FOREST LAKES FILING NO. 6

COUNTY OF EL PASO, STATE OF COLORADO

CONSTRUCTION PLANS

DECEMBER 2020

(SECTIONS 27 AND 28, TOWNSHIP 11 SOUTH, RANGE 67 WEST)



VICINITY MAP
NOT TO SCALE

GENERAL CONSTRUCTION NOTES:

- THE LOCATION OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND MAY NOT INCLUDE ALL UTILITIES. THE EXCAVATION CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- BEFORE COMMENCING ANY EXCAVATION, CALL 1-800-922-1987 FOR EXISTING UTILITY LOCATIONS.
- 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.
- ALL BACKFILL, SUB-BASE AND/OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED TO THE SOILS ENGINEER'S RECOMMENDATIONS, AND APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD).
- ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS AS SOON AS POSSIBLE AND EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.
- ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO THE EPC ECM APPENDIX K - 1.2C.
- ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
- BUILDING CONTRACTORS WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
- 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 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 PLANNING AND COMMUNITY DEVELOPMENT PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS WITHIN 21 DAYS OF SUBSTANTIAL GRADING COMPLETION. EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER IS RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.
- TYPE M RIP-RAP WITH 4" OF TYPE II GRANULAR BEDDING AND MIRAFI 180N OR EQUAL MAY BE SUBSTITUTED WHERE TYPE L RIP-RAP WITH MIRAFI FW 700 OR EQUAL IS SPECIFIED
- ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN COMPLIANCE WITH ANY AND ALL APPLICABLE EL PASO COUNTY STANDARDS.
- LOCATION OF THE CONCRETE WASHOUT, STORAGE FOR MAINTENANCE EQUIPMENT AND TEMPORARY DISPOSAL AREAS WILL BE ADDED TO THIS PLAN BY SWMP ADMINISTRATOR UPON COORDINATION WITH SELECTED CONTRACTOR.

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS:

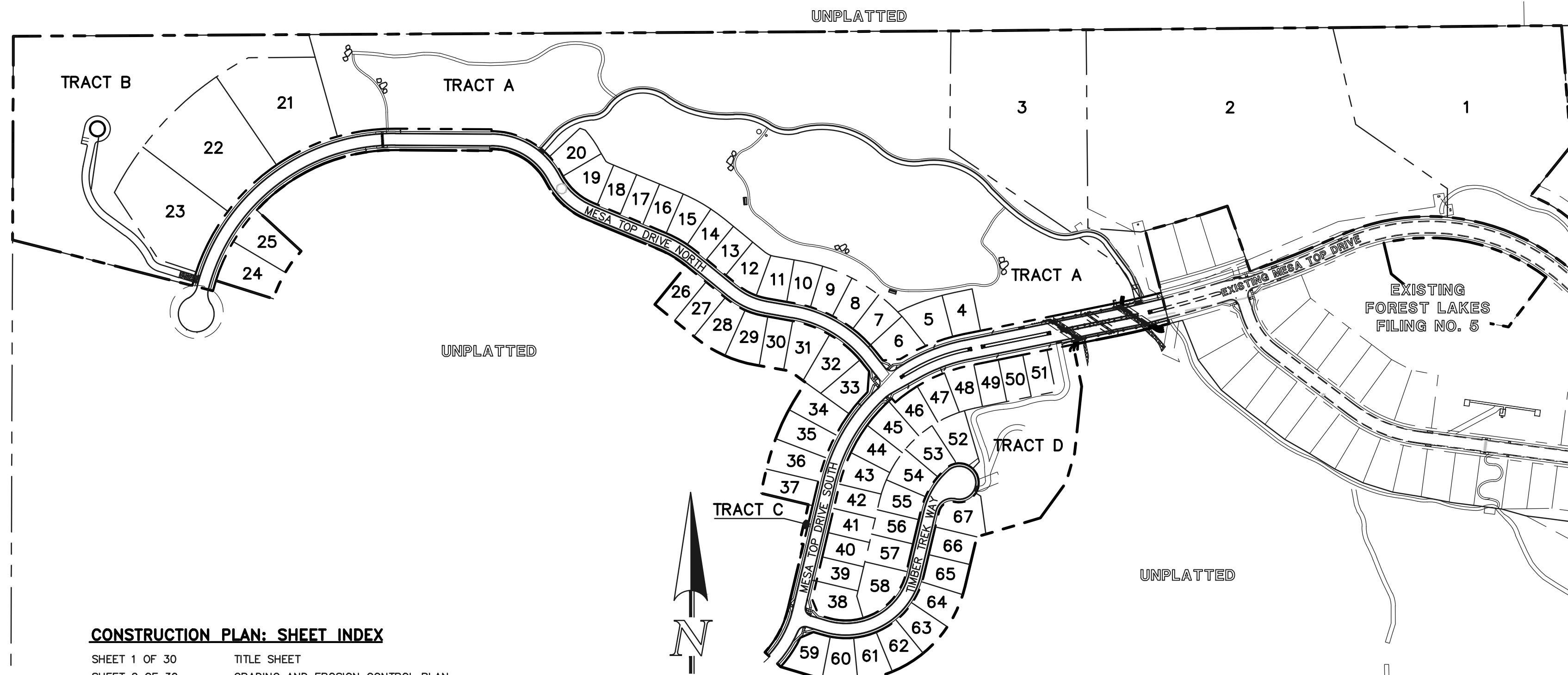
- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION 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 911 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 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.
- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT - 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 DEPARTMENT OF PUBLIC WORKS AND MUTCD CRITERIA.
- CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS, 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.

SIGNING 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 STOPPED 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. CROSSWALK 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.

BENCHMARKS:

- THE SOUTHWESTERLY CORNER OF LOT 15 AS PLATTED IN FOREST LAKES FILING NO. 1 BEING MONUMENTED BY A NO. 4 REBAR AND RED PLASTIC SURVEYORS CAP STAMPED "ROCKWELL PLS 19586" ELEVATION = 7039.42
- THE NORTHEASTERLY CORNER OF LOT 2 AS PLATTED IN FOREST LAKES FILING NO. 1 BEING MONUMENTED BY A NO. 4 REBAR AND RED PLASTIC SURVEYORS CAP STAMPED "ROCKWELL PLS 19586" ELEVATION = 6966.24



KEY MAP
SCALE: 1" = 250'

CONSTRUCTION PLAN: SHEET INDEX

SHEET 1 OF 30	TITLE SHEET
SHEET 2 OF 30	GRADING AND EROSION CONTROL PLAN
SHEET 3 OF 30	GRADING AND EROSION CONTROL PLAN
SHEET 4 OF 30	GRADING AND EROSION CONTROL PLAN
SHEET 5 OF 30	GRADING AND EROSION CONTROL PLAN
SHEET 6 OF 30	GRADING AND EROSION CONTROL PLAN NOTES & DETAIL SHEET
SHEET 7 OF 30	GRADING AND EROSION CONTROL PLAN DETAIL SHEET
SHEET 8 OF 30	GRADING AND EROSION CONTROL PLAN DETAIL SHEET
SHEET 9 OF 30	KEY MAP WITH TYPICAL STREET SECTIONS
SHEET 10 OF 30	STREET IMPROVEMENT PLAN (MESA TOP DRIVE SOUTH STA: 1+00-15+50)
SHEET 11 OF 30	STREET IMPROVEMENT PLAN (MESA TOP DRIVE SOUTH STA: 15+50-END)&(TIMBER TREK WAY)
SHEET 12 OF 30	STREET IMPROVEMENT PLAN (MESA TOP DRIVE NORTH STA: 1+00-9+00)
SHEET 13 OF 30	STREET IMPROVEMENT PLAN (MESA TOP DRIVE NORTH STA: 9+00-END)
SHEET 14 OF 30	STREET IMPROVEMENT PLAN (TRAIL/EMERGENCY ACCESS STA: 1+00-7+00)
SHEET 15 OF 30	STREET IMPROVEMENT PLAN (TRAIL/EMERGENCY ACCESS STA: 7+00-END)
SHEET 16 OF 30	MEDIAN AND RETAINING WALL DETAILED GRADING
SHEET 17 OF 30	PEDESTRIAN RAMP AND MAIL KIOSK DETAILED GRADING
SHEET 18 OF 30	STORM SEWER PLAN & PROFILE (MAIN A, MAIN B, & MAIN C)
SHEET 19 OF 30	STORM SEWER PLAN & PROFILE (MAIN D, MAIN E & MAIN F)
SHEET 20 OF 30	STORM SEWER PLAN & PROFILE (MAIN H)
SHEET 21 OF 30	STORM SEWER PLAN & PROFILE (MAIN G, MAIN I, MAIN J, MAIN K & POND OUTFALL)
SHEET 22 OF 30	PRIVATE POND 'B' FULL SPECTRUM DETENTION
SHEET 23 OF 30	MAIN 'A' - 48" IMPACT STRUCTURE
SHEET 24 OF 30	MAIN 'H' - 42" IMPACT STRUCTURE
SHEET 25 OF 30	POND OUTLET BOX - PROFILE VIEW
SHEET 26 OF 30	POND OUTLET BOX AND MICROPOOL DETAILS
SHEET 27 OF 30	POND OUTLET BOX DETAILS
SHEET 28 OF 30	PRIVATE POND 'B' SPILLWAY DETAILS
SHEET 29 OF 30	DETAIL SHEET
SHEET 30 OF 30	DETAIL SHEET

UTILITY CONSTRUCTION PLAN: SHEET INDEX

SHEET 1 OF 12	TITLE SHEET
SHEET 2 OF 12	SANITARY SEWER PLAN - MESA TOP DR. SOUTH STA: 1+00.00 - END
SHEET 3 OF 12	SANITARY SEWER PLAN - SANITARY SEWER OUTFALL STA: 1+00.00 - END & MESA TOP DR. NORTH STA: 1+00.00 - STA: 9+00.00
SHEET 4 OF 12	SANITARY SEWER PLAN - MESA TOP DR. NORTH STA: 9+00.00 - END
SHEET 5 OF 12	SANITARY SEWER PLAN - TIMBER TREK WAY STA: 1+00.00 - END
SHEETS 6-9 OF 12	PUBLIC 12"/8" PVC WATER SYSTEM PLAN
SHEETS 10-11 OF 12	UTILITY SERVICE PLAN
SHEET 12 OF 12	DETAIL SHEET

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW	NO. REVISION	DATE
THE LOCATIONS OF EXISTING 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 UNDERGROUND UTILITIES.		

REVIEW:	DATE
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC	
KYLE R. CAMPBELL, COLORADO P.E. #29794	

619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719) 785-0790
(719) 785-0799 (fax)

FOREST LAKES FILING NO. 6 CONSTRUCTION PLANS TITLE SHEET			
DESIGNED BY	MAL	SCALE	DATE 08/04/2020
DRAWN BY	MES	(H) 1" = N/A	SHEET 1 OF 30
CHECKED BY		(V) 1" = N/A	JOB NO. 1175.60

AGENCIES:

DEVELOPER:	FOREST LAKES RESIDENTIAL DEVELOPMENT, LLC 6385 CORPORATE DRIVE, SUITE 200 COLORADO SPRINGS, CO 80919 MR. JIM BOULTON (719) 592-3259
CIVIL ENGINEER:	CLASSIC CONSULTING ENGINEERS & SURVEYORS 619 N. CASCADE AVENUE, SUITE 200 COLORADO SPRINGS, CO 80903 MR. KYLE R. CAMPBELL, P.E. (719) 785-2800
COUNTY ENGINEERING:	DEVELOPMENT SERVICES DEPARTMENT 2880 INTERNATIONAL CIRCLE COLORADO SPRINGS, CO 80910 MR. GILBERT LAFORCE, (719) 520-7945
WATER & SANITATION DISTRICT:	FOREST LAKES METROPOLITAN DISTRICT 2 N. CASCADE AVENUE, SUITE 1280 COLORADO SPRINGS, CO 80903 MS. ANN NICHOLS, (719) 633-9500
FIRE DISTRICT:	TRI-LAKES MONUMENT FIRE PROTECTION DISTRICT 166 SECOND STREET MONUMENT, COLORADO 80132 (719) 484-0911
GAS COMPANY:	BLACK HILLS ENERGY 18965 BASE CAMP ROAD, A-7 MONUMENT, CO 80132 (888) 890-5554
ELECTRIC COMPANY:	MOUNTAIN VIEW ELECTRIC 11140 E. WOODMEN ROAD FALCON, COLORADO 80831 (719) 495-2283
TELEPHONE COMPANY:	CENTURY LINK COMMUNICATIONS (LOCATORS) (800)-922-1987 A.T.&T. (LOCATORS) (719) 635-3674

APPROVALS:

DESIGN ENGINEER'S STATEMENT:

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 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 DIRECTLY CAUSED BY THE NEGLIGENT ACTS, ERRORS, OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

KYLE R. CAMPBELL COLORADO P.E. #29794
FOR AND ON THE BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS

DATE

OWNER/DEVELOPER'S STATEMENT:

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

JIM BOULTON

DATE

EL PASO COUNTY:

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.

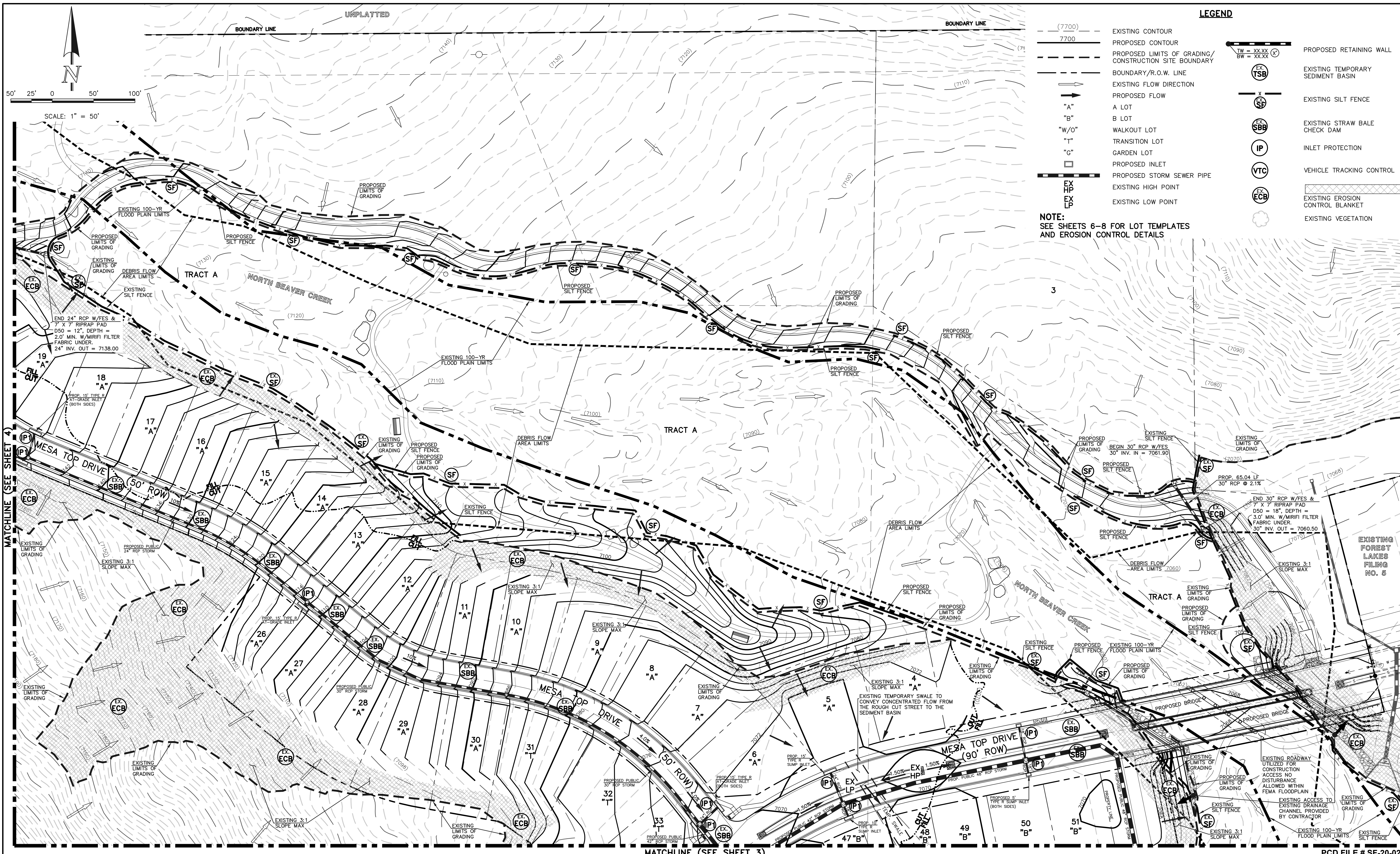
IN ACCORDANCE WITH WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT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

JENNIFER IRVINE, P.E.
COUNTY ENGINEER / ECM ADMINISTRATOR

DATE

PCD FILE # SF-20-027





LEGEND

- (7700) EXISTING CONTOUR
- 7700 PROPOSED CONTOUR
- - - - - PROPOSED LIMITS OF GRADING/ CONSTRUCTION SITE BOUNDARY
- - - - - BOUNDARY/R.O.W. LINE
- EXISTING FLOW DIRECTION
- PROPOSED FLOW
- "A" A LOT
- "B" B LOT
- "W/O" WALKOUT LOT
- "T" TRANSITION LOT
- "G" GARDEN LOT
- PROPOSED INLET
- PROPOSED STORM SEWER PIPE
- EXISTING HIGH POINT
- EXISTING LOW POINT
- TW = XX.XX PROPOSED RETAINING WALL
- BW = XX.XX
- EX TSB EXISTING TEMPORARY SEDIMENT BASIN
- EX SF EXISTING SILT FENCE
- EX SBB EXISTING STRAW BALE CHECK DAM
- EX IP INLET PROTECTION
- EX VTC VEHICLE TRACKING CONTROL
- EX ECB EXISTING EROSION CONTROL BLANKET
- EXISTING VEGETATION

NOTE:
SEE SHEETS 6-8 FOR LOT TEMPLATES AND EROSION CONTROL DETAILS



MATCHLINE (SEE SHEET 4)

MATCHLINE (SEE SHEET 3)

PCD FILE # SF-20-027

NOTE:
OVERLOT GRADING COMPLETED WITH PRE-DEVELOPMENT GRADING PLAN & PERMIT. EROSION CONTROL BLANKETS, TEMPORARY SEDIMENT BASINS, SILT FENCE & STRAW BALE BARRIERS INSTALLED PER THAT PLAN.

48 HOURS BEFORE YOU DIG,
CALL UTILITY LOCATORS
811
UTILITY NOTIFICATION CENTER OF COLORADO
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NO.	REVISION	DATE

REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE

CLASSIC CONSULTING

619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903

(719) 785-0790
(719) 785-0799 (fax)

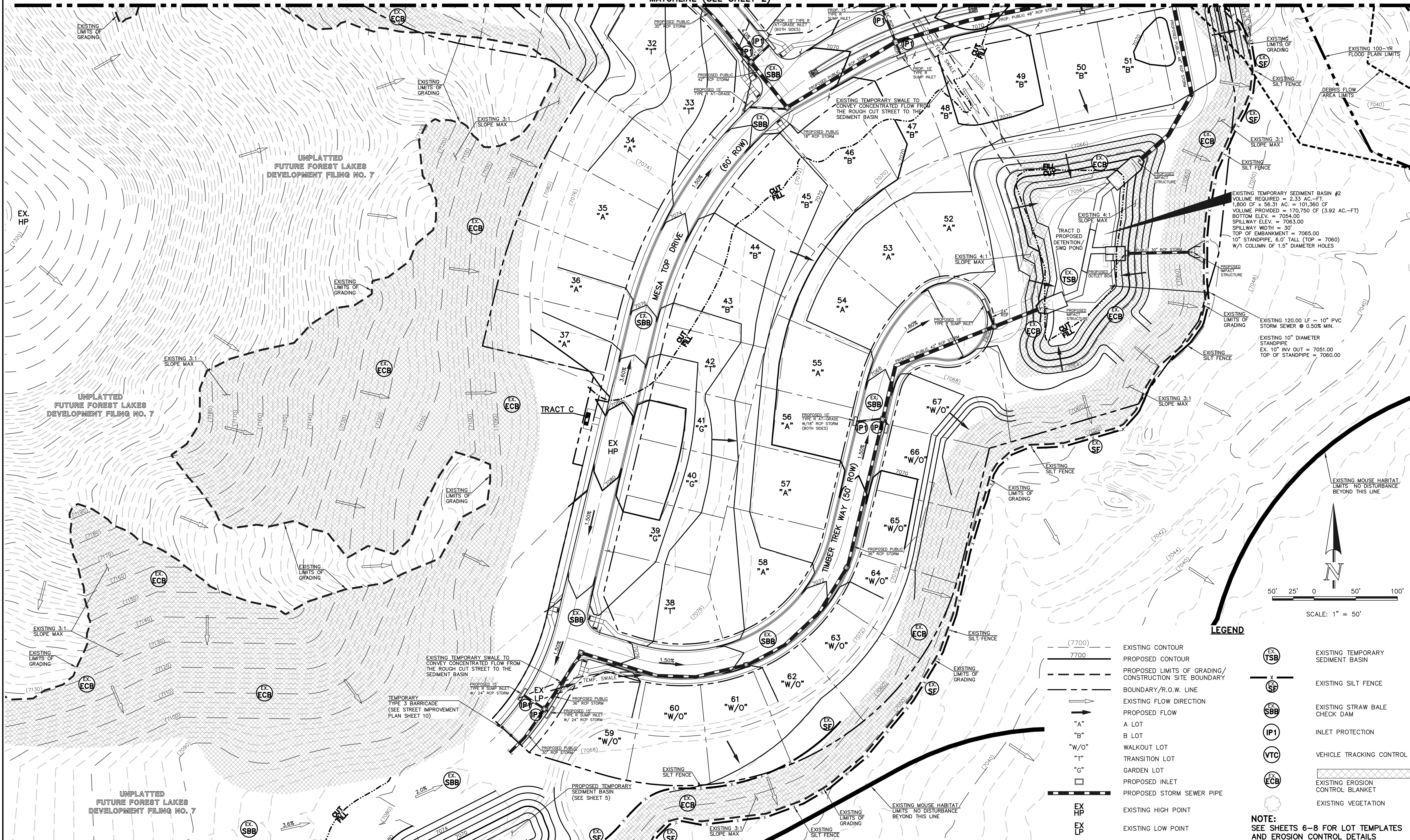
FOREST LAKES FILING NO. 6

GRADING AND EROSION CONTROL PLAN

DESIGNED BY	MAL	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET	2 OF 30
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.60	

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MATCHLINE (SEE SHEET 2)



LEGEND

- (7700) --- EXISTING CONTOUR
- 7700 --- PROPOSED CONTOUR
- - - - - PROPOSED LIMITS OF GRADING/CONSTRUCTION SITE BOUNDARY
- BOUNDARY/R.O.W. LINE
- EXISTING FLOW DIRECTION
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- "G" GARDEN LOT
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- PROPOSED STORM SEWER PIPE
- EX HP EXISTING HIGH POINT
- EX LP EXISTING LOW POINT
- EX TSB EXISTING TEMPORARY SEDIMENT BASIN
- EX SF EXISTING SILT FENCE
- EX SBB EXISTING STRAW BALE CHECK DAM
- IP1 INLET PROTECTION
- VTC VEHICLE TRACKING CONTROL
- EX ECB EXISTING EROSION CONTROL BLANKET
- EX VEG EXISTING VEGETATION

NOTE:
SEE SHEETS 6-8 FOR LOT TEMPLATES AND EROSION CONTROL DETAILS

PCD FILE # SF-20-027

MATCHLINE (SEE SHEET 5)

NOTE:
OVERLOT GRADING COMPLETED WITH PRE-DEVELOPMENT GRADING PLAN & PERMIT. EROSION CONTROL BLANKETS, TEMPORARY SEDIMENT BASINS, SILT FENCE & STRAW BALE BARRIERS INSTALLED PER THAT PLAN.

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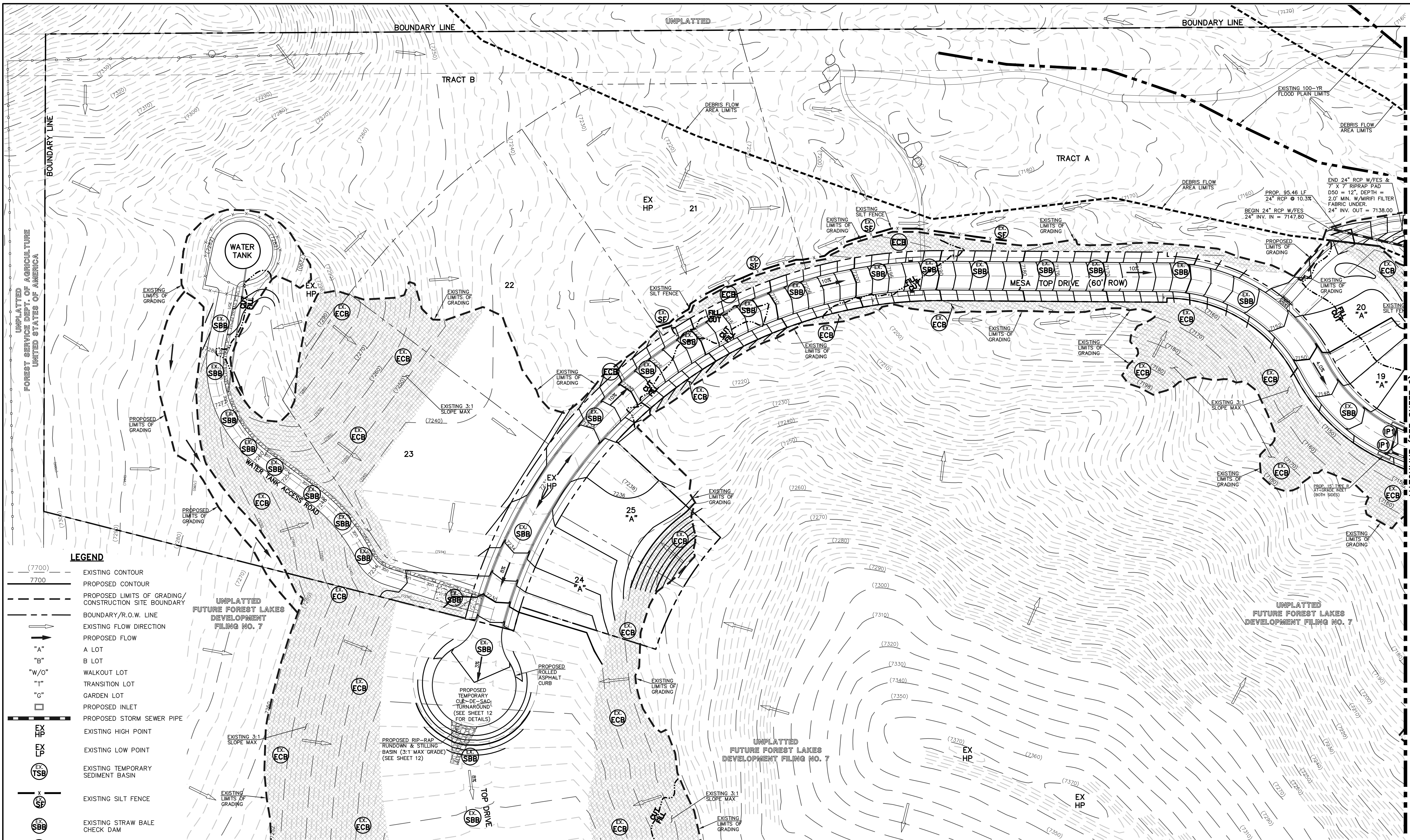
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KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE

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(719) 785-0790
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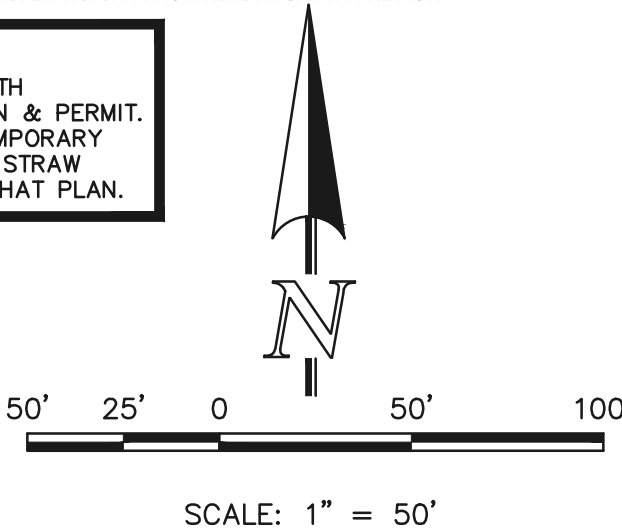
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DRAWN BY	MES	(H) 1" = 50'	SHEET 3 OF 30
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.50

N:\175560\GRAVING\CONSTRUCTION\GRAVING-EROSION\03-117560-CR-02.dwg, 12/27/2020 1:05:04 PM, 1:1



- LEGEND**
- (7700) --- EXISTING CONTOUR
 - 7700 --- PROPOSED CONTOUR
 - - - - - PROPOSED LIMITS OF GRADING / CONSTRUCTION SITE BOUNDARY
 - - - - - BOUNDARY/R.O.W. LINE
 - EXISTING FLOW DIRECTION
 - PROPOSED FLOW
 - "A" A LOT
 - "B" B LOT
 - "W/O" WALKOUT LOT
 - "T" TRANSITION LOT
 - "G" GARDEN LOT
 - PROPOSED INLET
 - PROPOSED STORM SEWER PIPE
 - EX HP EXISTING HIGH POINT
 - EX LP EXISTING LOW POINT
 - EX TSB EXISTING TEMPORARY SEDIMENT BASIN
 - EX SF EXISTING SILT FENCE
 - EX SBB EXISTING STRAW BALE CHECK DAM
 - IP INLET PROTECTION
 - VTC VEHICLE TRACKING CONTROL
 - EX CB EXISTING EROSION CONTROL BLANKET
 - ☁ EXISTING VEGETATION

NOTE:
OVERLOT GRADING COMPLETED WITH PRE-DEVELOPMENT GRADING PLAN & PERMIT. EROSION CONTROL BLANKETS, TEMPORARY SEDIMENT BASINS, SILT FENCE & STRAW BALE BARRIERS INSTALLED PER THAT PLAN.



NOTE:
SEE SHEETS 6-8 FOR LOT TEMPLATES AND EROSION CONTROL DETAILS

48 HOURS BEFORE YOU DIG,
CALL UTILITY LOCATORS
811
UTILITY NOTIFICATION CENTER OF COLORADO
IT'S THE LAW

THE LOCATIONS OF EXISTING 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 UNDERGROUND UTILITIES.

NO.	REVISION	DATE

REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE

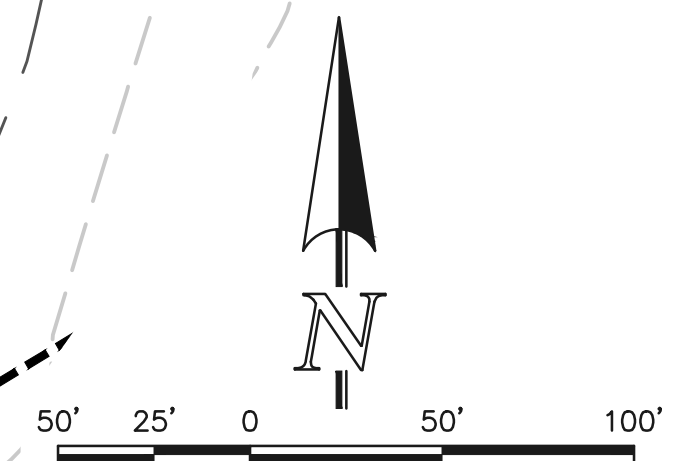
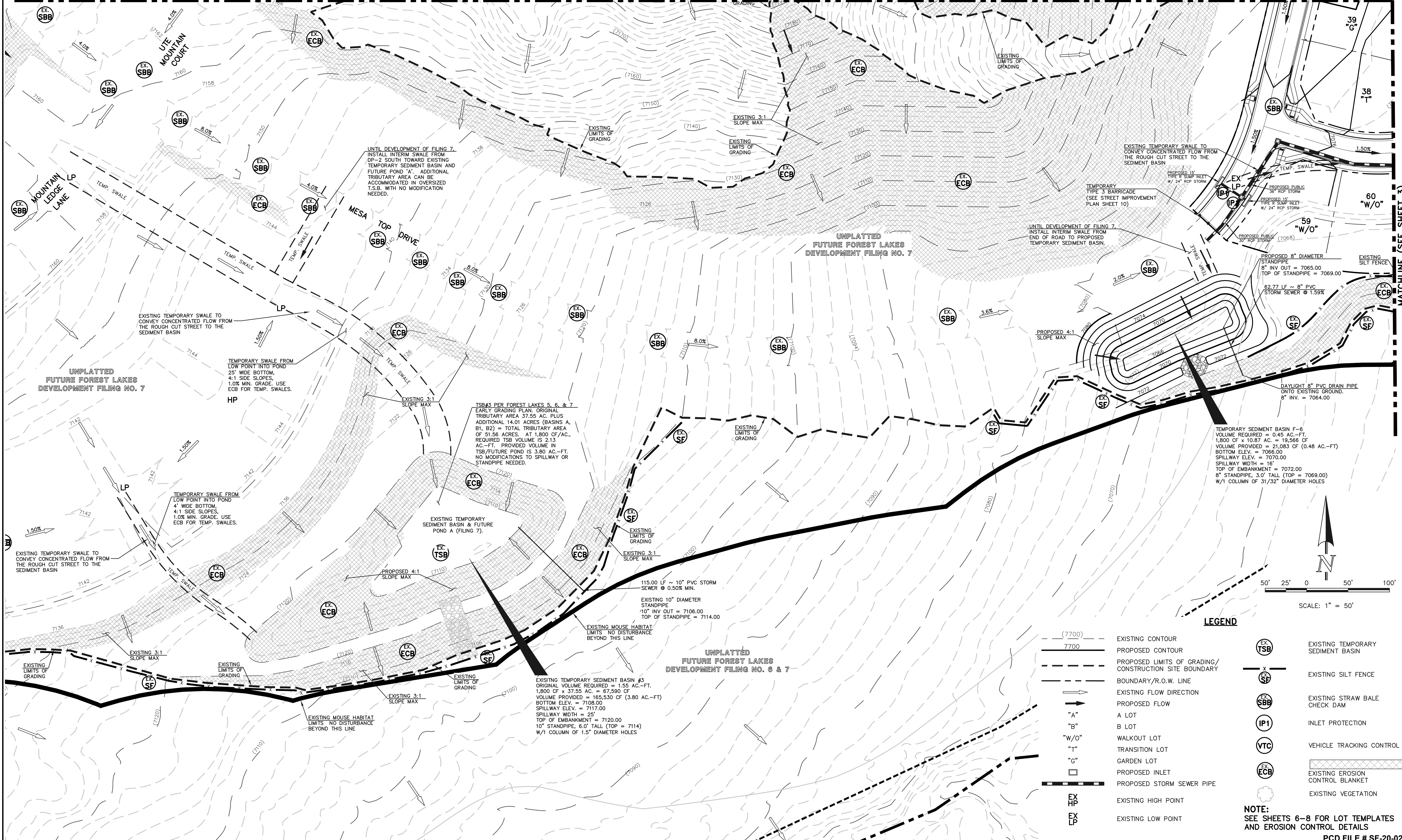


FOREST LAKES FILING NO. 6			
GRADING AND EROSION CONTROL PLAN			
DESIGNED BY	MAL	SCALE	DATE 08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET 4 OF 30
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.60

PCD FILE # SF-20-027

MATCHLINE (SEE SHEET 2)

N:\117560\FORAMINCS\CONSTRUCTIVE\CONSTRUCTION\EROSION\04-117560-CR-03.dwg, 1/25/2021, 8:55:28 AM, 1:1



LEGEND

- (7700) EXISTING CONTOUR
- 7700 PROPOSED CONTOUR
- - - - - PROPOSED LIMITS OF GRADING/CONSTRUCTION SITE BOUNDARY
- — — — — BOUNDARY/R.O.W. LINE
- EXISTING FLOW DIRECTION
- PROPOSED FLOW
- "A" A LOT
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- "T" TRANSITION LOT
- "G" GARDEN LOT
- PROPOSED INLET
- — — — — PROPOSED STORM SEWER PIPE
- EX HP EXISTING HIGH POINT
- EX LP EXISTING LOW POINT
- EX TSB EXISTING TEMPORARY SEDIMENT BASIN
- x — EXISTING SILT FENCE
- EX SBB EXISTING STRAW BALE CHECK DAM
- IP1 INLET PROTECTION
- VTC VEHICLE TRACKING CONTROL
- EX ECB EXISTING EROSION CONTROL BLANKET
- ☁ EXISTING VEGETATION

NOTE:
SEE SHEETS 6-8 FOR LOT TEMPLATES AND EROSION CONTROL DETAILS
PCD FILE # SF-20-027

NOTE:
OVERLOT GRADING COMPLETED WITH PRE-DEVELOPMENT GRADING PLAN & PERMIT. EROSION CONTROL BLANKETS, TEMPORARY SEDIMENT BASINS, SILT FENCE & STRAW BALE BARRIERS INSTALLED PER THAT PLAN.

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NO.	REVISION	DATE

REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE

FOREST LAKES FILING NO. 6			
GRADING AND EROSION CONTROL PLAN			
DESIGNED BY	SCALE	DATE	
MAL	(H) 1" = 50'	08/04/2020	SHEET 5 OF 30
DRAWN BY	SCALE	DATE	
MES	(V) 1" = N/A		JOB NO. 1175.50
CHECKED BY	SCALE	DATE	

1175560 (DRAINAGES) CONSTRUCTION GRADING - EROSION (05-117560-CR-04.dwg, 12/21/2020 1:03:45 PM, 1:1)

EL PASO COUNTY GRADING AND EROSION CONTROL NOTES:

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- 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.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP IS APPROVED AND A 'NOTICE TO PROCEED' HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRE-CONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATERS. CONTROL MEASURES INCLUDING SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT AFFECT THE FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE EGM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENEED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON-SITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE EGM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ON-SITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE EGM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
 WATER QUALITY CONTROL DIVISION
 WQCD - PERMITS
 4300 CHERRY CREEK DRIVE SOUTH
 DENVER, CO 80246-1530
 ATTN: PERMITS UNIT

EROSION CONTROL CRITERIA:

- EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN A MANNER THAT WILL PROTECT PROPERTIES AND PUBLIC FACILITIES FROM THE ADVERSE EFFECTS OF EROSION AND SEDIMENTATION AS A RESULT OF CONSTRUCTION AND EARTHWORK ACTIVITIES WITHIN THE PROJECT SITE.
- THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NON-EXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES.
 - DURING GRADING OPERATIONS, LOCATE AND SET THE STRAW BALE CHECK DAMS AND SILT FENCES AS SHOWN ON THE EROSION CONTROL PLAN. AT THIS TIME RESEED ALL DISTURBED AREAS WITH AN EL PASO COUNTY APPROVED SEED MIX.
 - SEEDING APPLICATION: DRILLED TO A DEPTH OF .25" TO .50" INTO SOIL WHERE POSSIBLE. BROADCAST AND RAKED TO COVER ON STEEPER THAN 3:1 SLOPES WHERE ACCESS IS LIMITED OR UNSAFE FOR EQUIPMENT.
 - MULCHING REQUIREMENT AND APPLICATION: 1.5 TONS PER ACRE NATIVE HAY MECHANICALLY CRIMPED INTO SOIL.
 - THE STRAW BALE CHECK DAMS AND SILT FENCES SHALL BE KEPT IN PLACE AND MAINTAINED UNTIL EROSION AND SEDIMENTATION POTENTIAL IS MITIGATED. REMOVAL OF SILT AND SEDIMENT COLLECTED BY THE STRAW BALES IS REQUIRED ONCE IT REACHES HALF THE HEIGHT OF THE STRAW BALES OR SILT FENCE.
 - SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN TWENTY-ONE (21) CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE, HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SEEDED. ON A CASE-BY-CASE BASIS, THE M54 PERMITTEE MAY ALLOW ANOTHER APPROPRIATE BMP TO BE IN PLACE THAT PREVENTS SEDIMENT FROM LEAVING THE SITE. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMP'S SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED.
 - ALL FACILITIES, VEGETATION AND OTHER ITEMS REQUIRED BY THE APPROVED FINAL GRADING, EROSION CONTROL, AND RECLAMATION PLAN SHALL BE PROPERLY MAINTAINED BY THE OWNERS OF THE PROPERTY. SUCH MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO KEEPING ALL EROSION CONTROL FACILITIES IN GOOD ORDER AND FUNCTIONAL, REPAIRING ANY EROSION DAMAGE THAT OCCURS, KEEPING ALL VEGETATION HEALTHY AND IN GROWING CONDITION AND REPLACING ANY DEAD VEGETATION AS SOON AS PRACTICABLE.
 - ALL SILT FENCES ARE TO BE REGULARLY INSPECTED AND REPAIRED AS NEEDED.
 - THE CONTRACTOR SHALL PROVIDE VEHICLE TRACKING CONTROL FACILITIES FOR EACH ENTRANCE/EXIT TO THE SITE. THE CONTRACTOR SHALL SUBMIT A PLAN WHICH WILL ASSURE USAGE OF THIS FACILITY BY ALL VEHICLES LEAVING THE SITE.
 - EROSION CONTROL MEASURES SHALL BE CHECKED AFTER EACH STORM EVENT AND REPAIRED WHEN NECESSARY.
 - CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION CONTROL FACILITIES IN GOOD WORKING ORDER UNTIL SUCH TIME AS PERMANENT FACILITIES ARE IN PLACE AND THE CONSTRUCTION MANAGER HAS APPROVED THEIR REMOVAL.
 - ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
 - THE EROSION CONTROL MEASURES OUTLINED ON THE PLAN ARE THE RESPONSIBILITY OF THE DEVELOPER TO MONITOR AND REPLACE, REGRADE AND REBUILD AS NECESSARY UNTIL VEGETATION IS ESTABLISHED.
 - MAXIMUM ACREAGE OPEN AT ANY GIVEN TIME IS TO BE 30 ACRES.

SEEDING GUIDELINES:

- SEEDBED PREPARATION**
 THE SEEDBED SHOULD BE WELL-SETTLED AND FIRM, BUT FRIABLE ENOUGH THAT THE SEED CAN BE PLACED AT THE SPECIFIED DEPTHS. COMPETITIVE STANDS OF WEEDS THAT ARE PRESENT BEFORE SEEDING MUST BE CONTROLLED BY SHALLOW TILLAGE OR BY APPLICATION OF HERBICIDES. SOILS THAT HAVE BEEN OVER-COMPACTED BY TRAFFIC OR EQUIPMENT, ESPECIALLY WHEN WET, SHOULD BE TILLED TO BREAK UP ROOTING-RESTRICTIVE LAYERS, THAN HARROWED, ROLLED, OR PACKED TO PREPARE THE REQUIRED FIRM SEEDBED.
- FERTILIZER**
 FERTILIZER SHOULD BE APPLIED AT A RATE OF 50 POUNDS OF AVAIL-ABLE NITROGEN PER ACRE AND 40 POUNDS OF AVAILABLE PHOSPHATE PER ACRE. THE TIME OF APPLICATION SHOULD BE IMMEDIATELY PRIOR TO SEEDING, AT THE TIME OF SEEDING, OR IMMEDIATELY FOL-LOWING SEEDING, DEPENDING ON THE KIND OF FERTILIZER AND TYPE OF EQUIPMENT USED.
- SEEDING**
 SEED SHOULD BE PLANTED WITH A GRASS DRILL ON ALL SLOPES OF 3:1 (3:1) OR FLATTER. SEED MAY BE BROADCAST BY HAND, BY MECHANICAL SPREADER, OR BY HYDRAULIC EQUIPMENT ON AREAS THAT ARE SMALL, TOO STEEP, OR NOT ACCESSIBLE FOR SEED DRILL OPERATIONS. SEED PLANTED WITH A DRILL SHOULD BE COVERED WITH SOIL TO A DEPTH OF 1/4 TO 3/4 INCH. SEED PLANTED BY THE BROADCAST METHOD SHALL BE INCORPORATED INTO THE SOIL SURFACE, NOT TO EXCEED A DEPTH OF 3/4 INCH, BY RAKING, HARROWING, OR OTHER PROVEN METHOD. THE TIME OF SEEDING IS FROM OCTOBER 15TH - MAY 31ST. SEED PLANTED IN THE LATE FALL WILL REMAIN DORMANT UNTIL SPRING, WHEN IT WILL GERMINATE.
- MULCHING**
 SEEDED AREAS SHOULD BE MULCHED TO CONSERVE MOISTURE; PREVENT SURFACE COMPACTION OR CRUSTING; REDUCE RUNOFF AND EROSION; CONTROL INSECTS; AND HELP ESTABLISH PLANT COVER.
 NATIVE HAY OR STRAW SHOULD BE APPLIED AT A RATE OF 4,000 POUNDS PER ACRE AND CRIMPED INTO THE GROUND. ON SLOPES GREATER THAN 3:1, AN AGRONOMY BLANKET SHOULD BE USED.
- SUPPLEMENTAL WATER**
 IN LOW RAINFALL AREAS, WHERE WATER IS AVAILABLE AND WHERE RAPID ESTABLISHMENT IS NEEDED, IRRIGATION OF NEW SEEDING SHOULD BE PERFORMED DURING THE FIRST GROWING SEASON. WATER SHOULD BE APPLIED AT APPROXIMATELY ONE WEEK INTERVALS, AT A RATE OF 3/4 TO 1 INCH PER APPLICATION, WHEN RAINFALL IS DEFICIENT FOR PLANT DEVELOPMENT.

NOTES:

AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF THE CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
 WATER QUALITY CONTROL DIVISION
 WQCD - PERMITS
 4300 CHERRY CREEK DRIVE SOUTH
 DENVER, CO 80246-1530
 ATTN: PERMITS UNIT

A PORTION OF THE OVERALL FOREST LAKES DEVELOPMENT IS LOCATED WITHIN A FLOODPLAIN AS DETERMINED BY THE FLOOD INSURANCE RATE MAPS (F.I.R.M.) MAP NUMBERS 08041 C0267G, C0266G, C0259G & C0259G EFFECTIVE DATE, DECEMBER 7, 2018. HOWEVER, THERE IS NO PORTION OF FILING 6 DEVELOPMENT WITHIN THE FLOODPLAIN LIMITS.

THE AVERAGE SOIL CONDITION REFLECTS HYDROLOGIC SOIL GROUP "B", MOSTLY JARRE-TEOLOTE COMPLEX AND PEYTON-PRING COMPLEX AS DETERMINED BY THE "SOIL SURVEY OF EL PASO COUNTY AREA" PREPARED BY THE U.S. SOIL CONSERVATION SERVICE.

EXISTING VEGETATION CONSISTS OF NATIVE GRASSES.

EMERGENCY OVERFLOW SWALES FOR INLETS IN THE INTERIM UNTIL CURB AND ASPHALT IS INSTALLED WILL BE THE LOTS, FINAL WILL BE TO OVERTOP THE HIGH POINT IN ROADWAY TO THE NEXT AVAILABLE INLET OR TO PROPOSED POND.

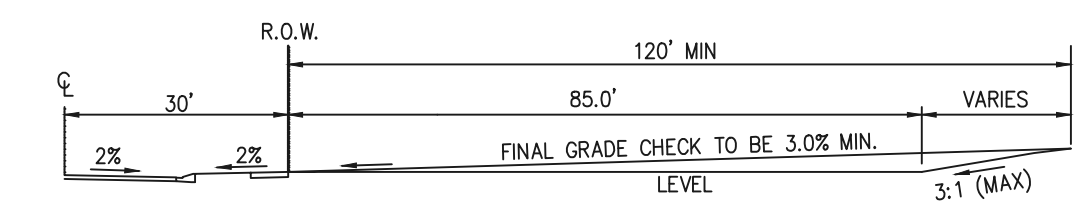
STACKPILE LOCATIONS FOR HOMEBUILDING TO BE ON EACH INDIVIDUAL LOT THAT IS BEING BUILT UPON.

LIMITS OF DISTURBANCE FOR THIS PLAN INCLUDE UTILITY INSTALLATION AND ROADWAY CONSTRUCTION WITHIN THE R.O.W. AND OVERLOT GRADING FOR DEVELOPMENT THEN INDIVIDUAL LOTS FOR HOMEBUILDING ONCE CONSTRUCTION OF THE HOME BEGINS.

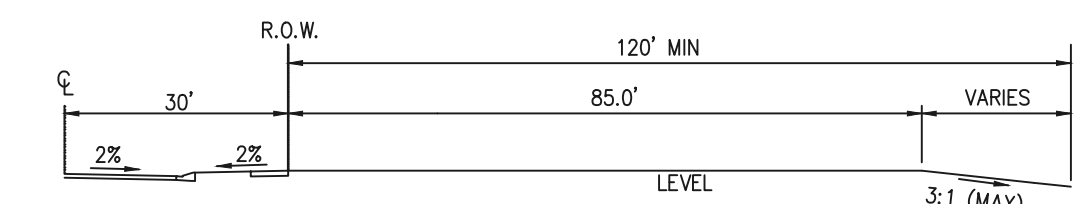
GRADING WITHIN THIS PHASE WILL BE FULLY DEVELOPED WITH HOME BUILDING OPERATIONS.

LOCATION OF THE CONCRETE WASHOUT, STORAGE FOR MAINTENANCE EQUIPMENT AND TEMPORARY DISPOSAL AREAS WILL BE ADDED TO THIS PLAN BY SWMP ADMINISTRATOR UPON COORDINATION WITH SELECTED CONTRACTOR.

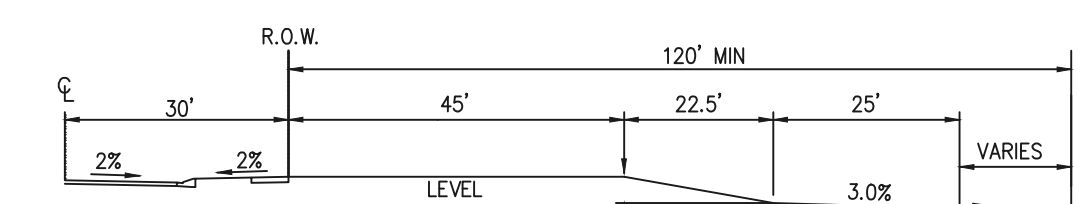
ALL AREAS ARE TO BE RESEEDED OUTSIDE OF THE FILING NO. 5 AREA. RESEED ALL AREAS AS NEEDED TO PREVENT EROSION AND SEDIMENT RUNOFF ONTO CONSTRUCTION ACTIVITIES.



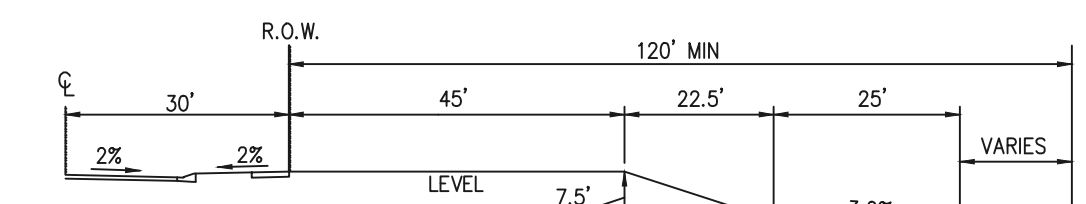
TYPICAL A LOT
NOT TO SCALE



TYPICAL B LOT
NOT TO SCALE



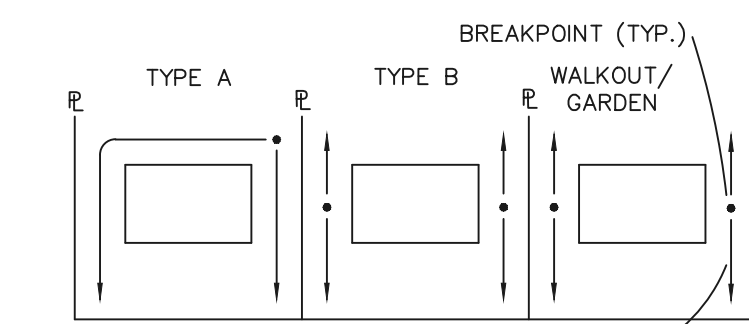
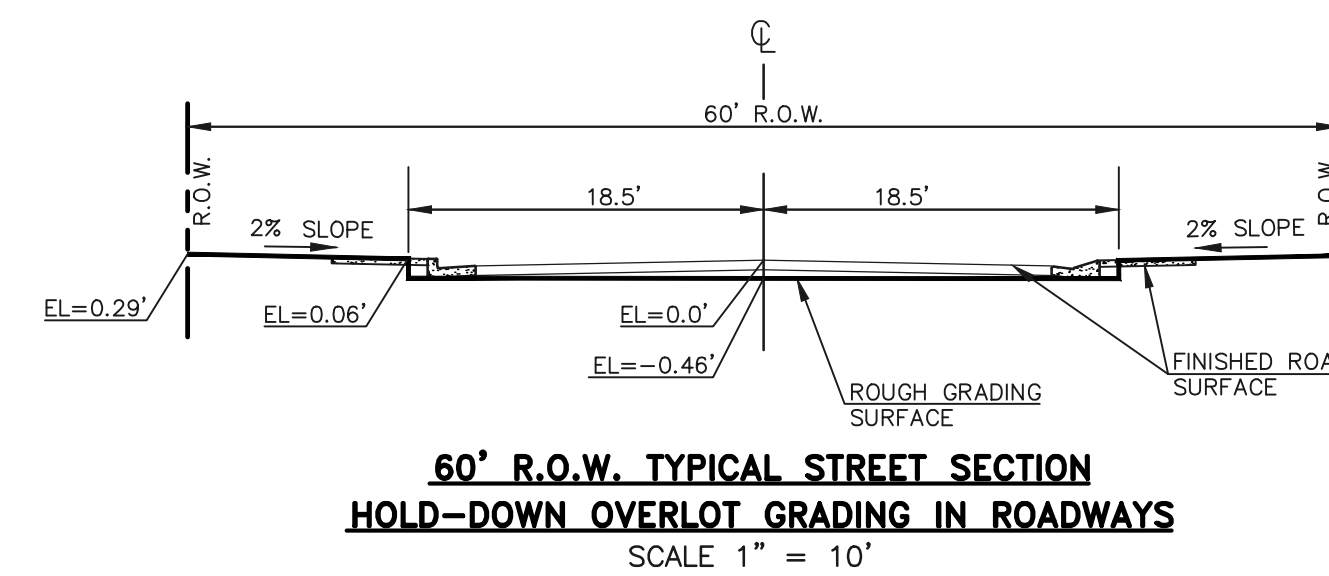
TYPICAL GARDEN (G) LOT
NOT TO SCALE



TYPICAL WALKOUT (W/O) LOT
NOT TO SCALE

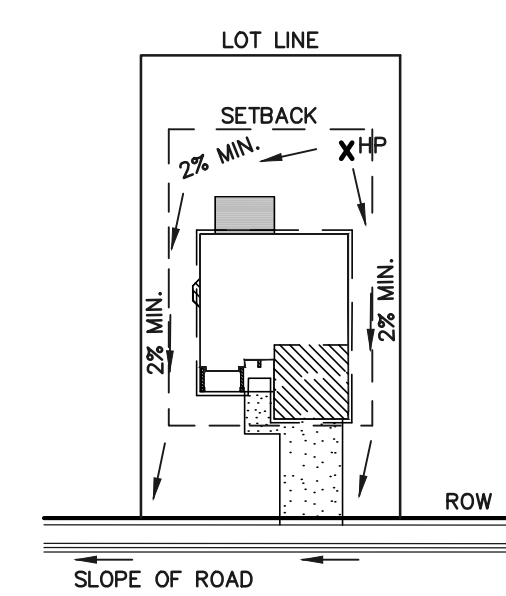
NOTE:

"T" LOTS OR "TRANSITION" LOTS OCCUR IN PLACES WHERE BOTH PROPERTY LINES CANNOT BE GRADED AS THE TYPICAL STANDARD LOT TEMPLATES SHOWN. THESE LOTS WILL STILL BE GRADED TO CREATE POSITIVE DRAINAGE AWAY FROM THE STRUCTURE.

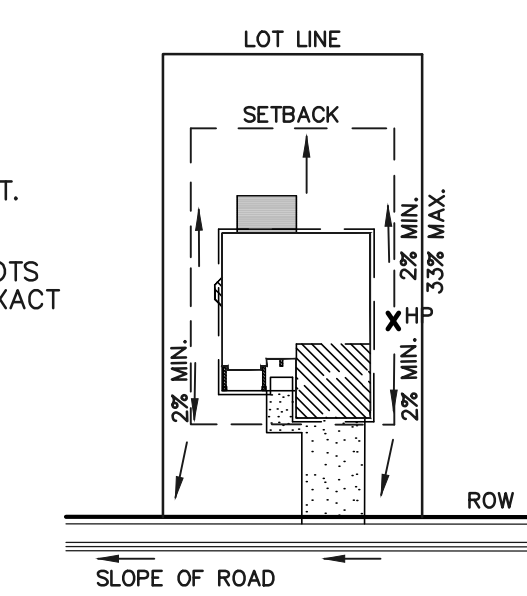


LOT DRAINAGE TYPES

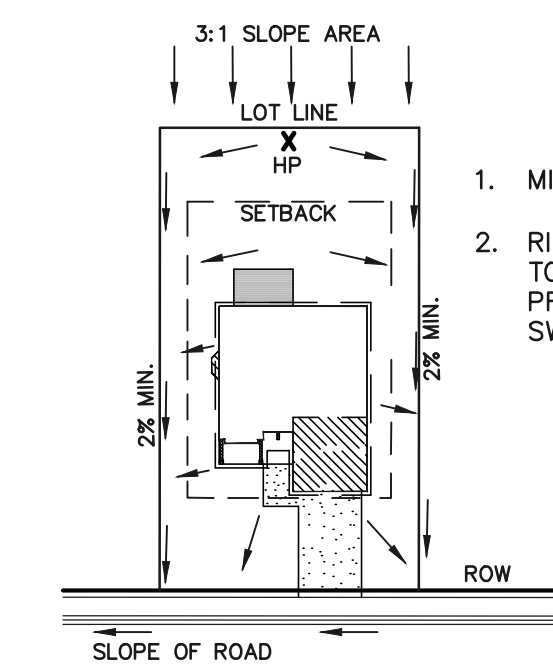
NOTE:
SIDE LOT LINE SWALES ARE REQUIRED FOR ALL LOTS.



TYPICAL "A" LOT DRAINAGE PATTERN
N.T.S.



TYPICAL "B", "C," "W/O" LOT DRAINAGE PATTERN
N.T.S.



"A" LOTS W/SLOPE BEHIND DRAINAGE PATTERN
N.T.S.

- MINIMUM LOT WIDTH ALONG SLOPE IS 70'.
- RIPRAP OR CONCRETE "V" NOTCH SWALES TO BE INSTALLED ALONG SHARED PROPERTY & WITHIN SIDE LOT EASEMENTS. SWALES TO DISCHARGE ONTO ROADWAY.

CONSTRUCTION CONTROL MEASURES NOTES:

- CONTRACTOR TO DETERMINE AREAS USED FOR STAGING, STORAGE OF MATERIALS, SOILS (STOCKPILES) OR WASTES AND SHALL MARK ON THE SITE SWMP AT ALL TIMES. THE USE OF CONSTRUCTION OFFICE TRAILERS REQUIRES PCD PERMITTING.
- THE EROSION CONTROL MEASURES SHOWN ON THE APPROVED "FOREST LAKES FILING NO. 5, 6, & 7 PRE-DEVELOPMENT GRADING AND EROSION CONTROL PLAN" SHOW AND CALL-OUT THE 'INITIAL' STAGE OF TEMPORARY CONSTRUCTION CONTROL MEASURES.
- THE PROPOSED GRADING/EROSION CONTROL PLAN (SHEETS 2-4) SHOW AND CALL-OUT THE 'INTERIM' STAGE OF CONSTRUCTION CONTROL MEASURES.
- 'FINAL' CONSTRUCTION CONTROL MEASURES ARE STABILIZED/DEVELOPED LOTS, CONSTRUCTED ROADS, RE-SEEDED OPEN SPACE, AND CONSTRUCTED DETENTION PONDS. A PLAN IS NOT NEEDED FOR THE FINAL STAGE.

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW	NO. REVISION	DATE	REVIEW:
THE LOCATIONS OF EXISTING 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 UNDERGROUND UTILITIES.			PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
			KYLE R. CAMPBELL, COLORADO P.E. #29794
			DATE

DATE	DATE

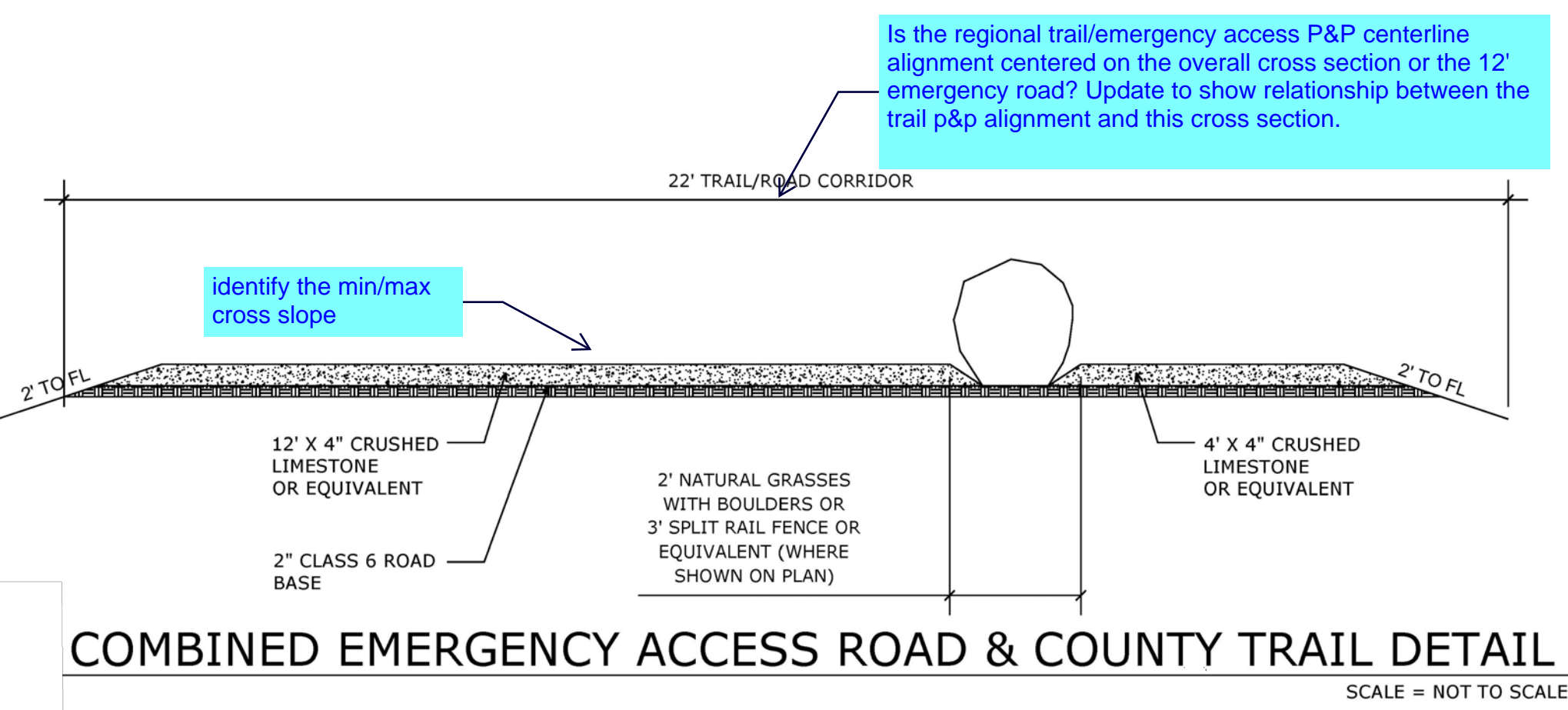
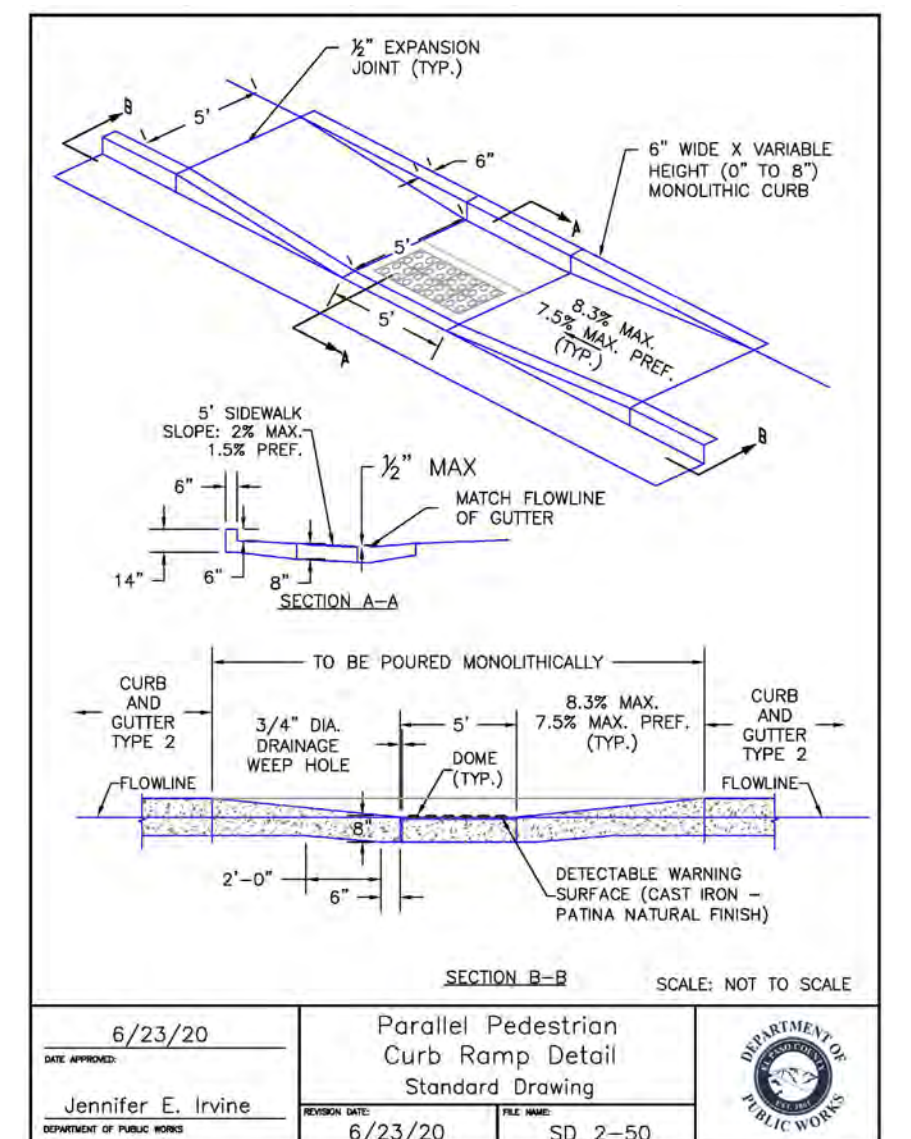
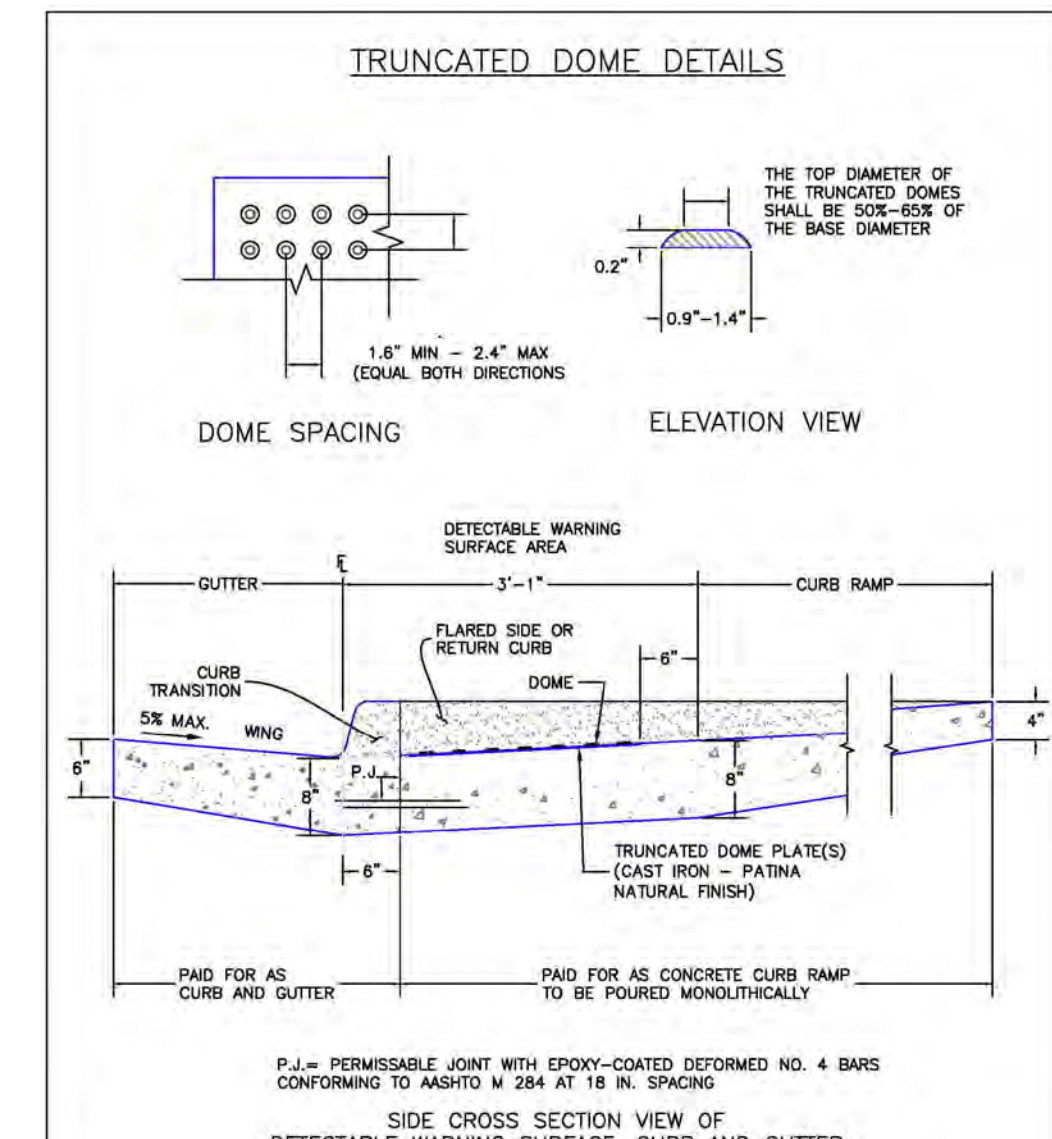
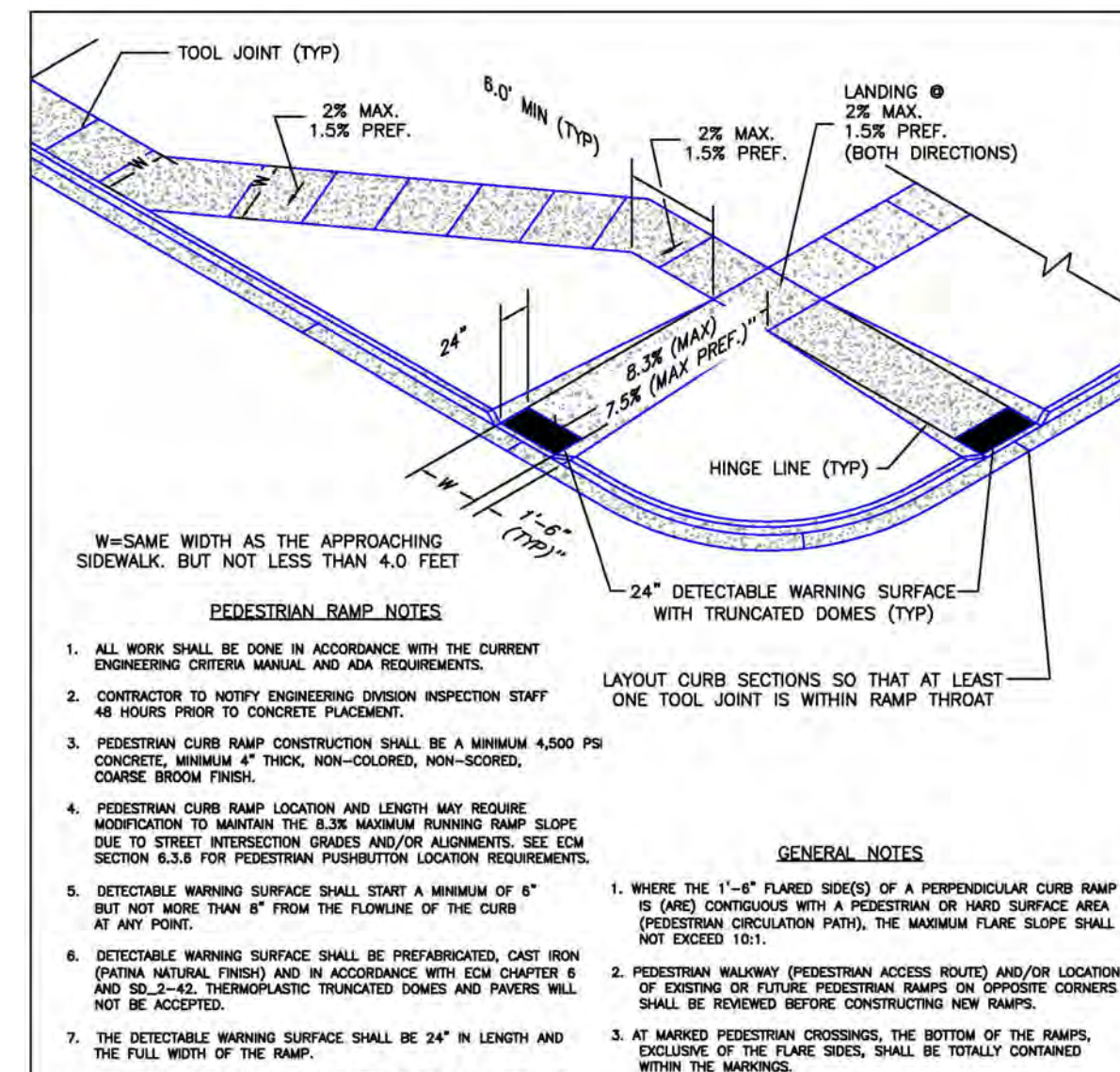
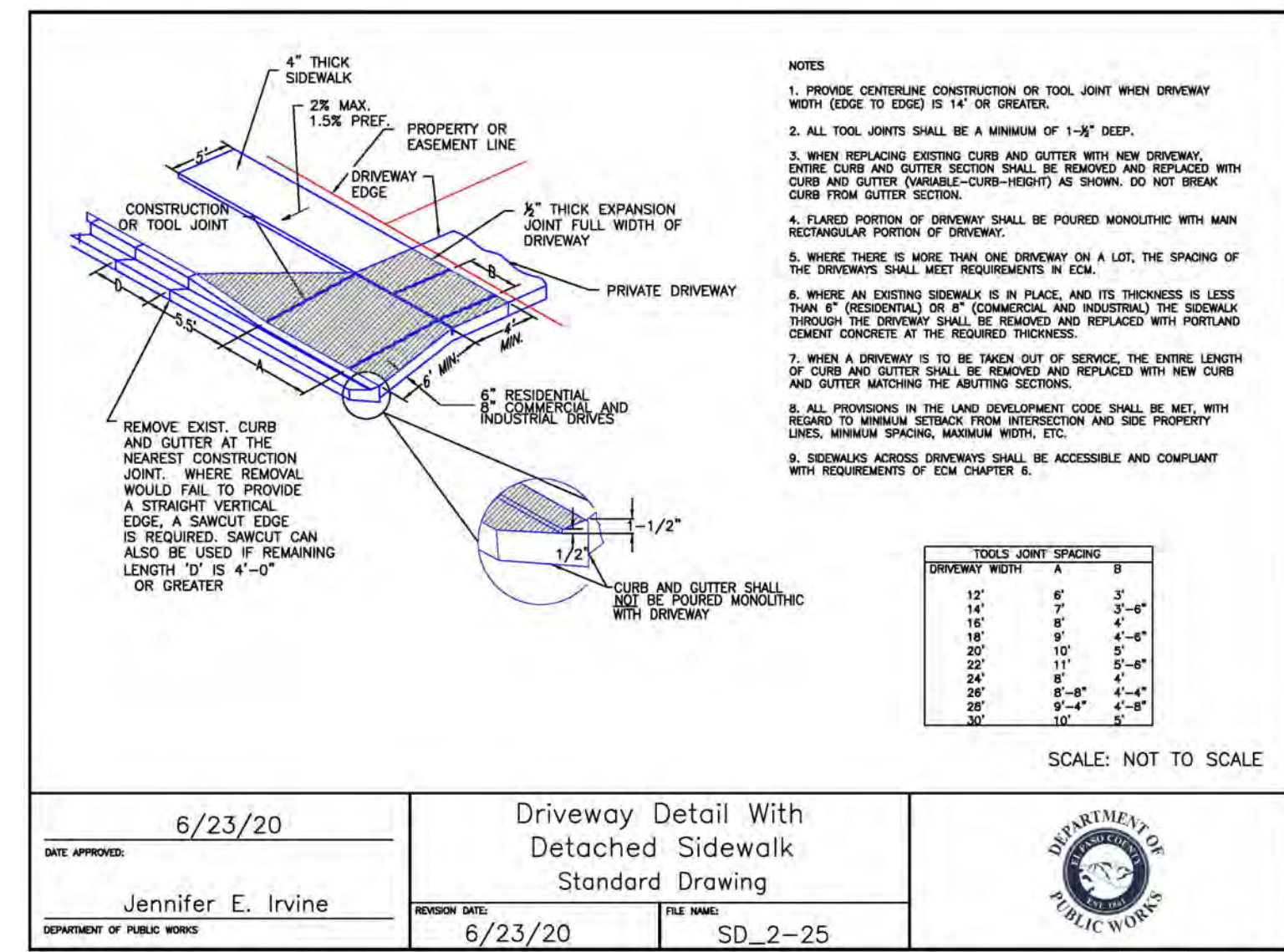
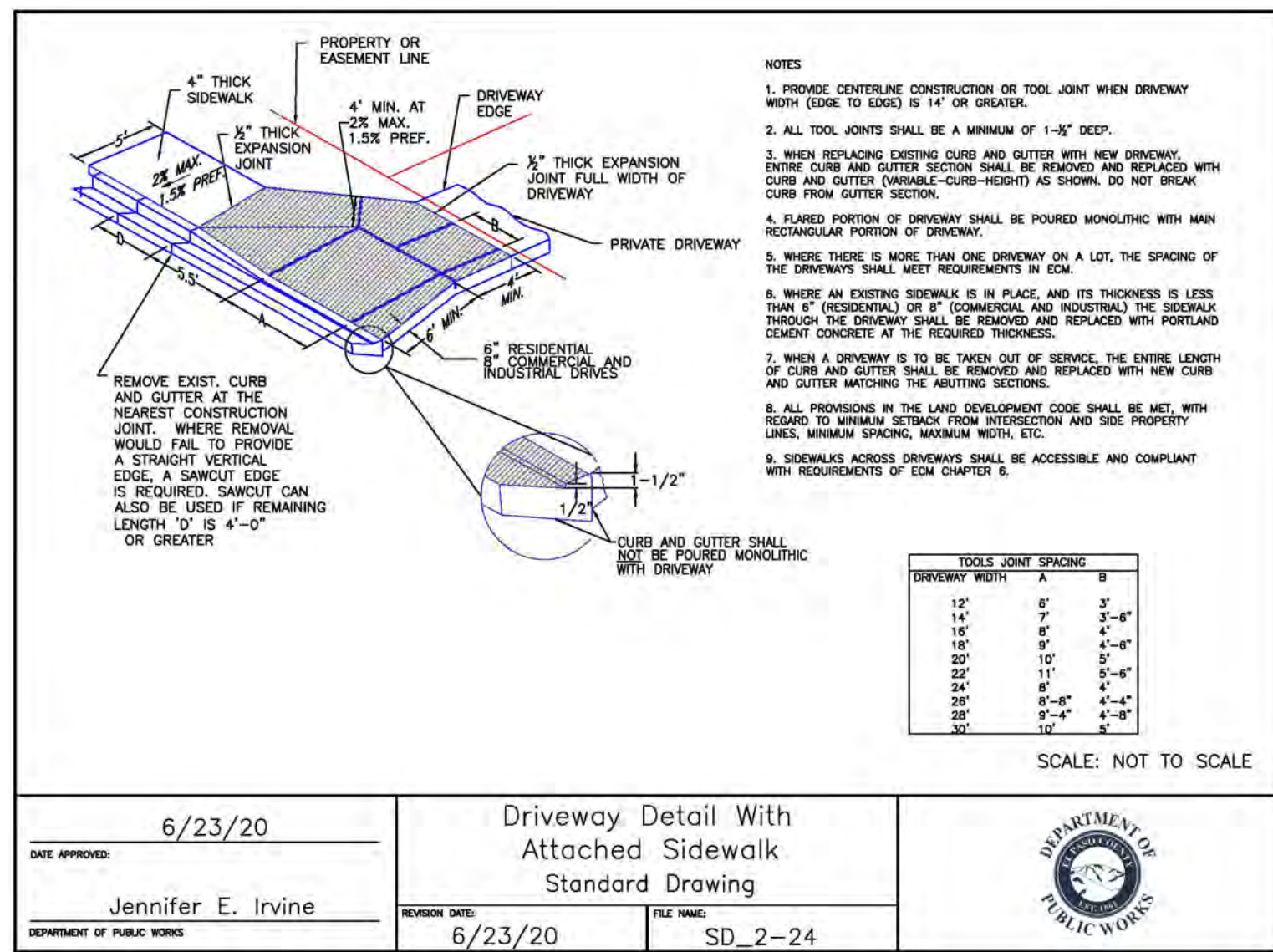
619 N. Cascade Avenue, Suite 200
 Colorado Springs, Colorado 80903
 (719) 785-0790
 (719) 785-0799 (fax)

FOREST LAKES FILING NO. 6 CONSTRUCTION PLANS
 GRADING AND EROSION CONTROL PLAN
 NOTES & DETAIL SHEET

DESIGNED BY	MAL	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = N/A	SHEET	6 OF 30
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.60	

PCD FILE # SF-20-027





Rolled Erosion Control Products (RECP) EC-6

Table RECP-1. ECTC Standard Specification for Temporary Rolled Erosion Control Products (Adapted from Erosion Control Technology Council 2005)

Product Description	Slope Applications*	Channel Applications*	Minimum Tensile Strength	Expected Longevity
Mulch Control Mats	5:1 (H:V) ±0.10 @ 3:1	0.25 lbs/ft ² (12 Pa)	5 lbs/ft (0.075 kN/m)	Up to 12 months
Netless Rolled Erosion Control Blankets	4:1 (H:V) ±0.10 @ 4:1	0.5 lbs/ft ² (24 Pa)	5 lbs/ft (0.075 kN/m)	
Single-net Erosion Control Blankets & Open Weave Textiles	3:1 (H:V) ±0.15 @ 2:1	1.5 lbs/ft ² (72 Pa)	50 lbs/ft (7.5 kN/m)	
Double-net Erosion Control Blankets	2:1 (H:V) ±0.20 @ 2:1	1.75 lbs/ft ² (84 Pa)	75 lbs/ft (1.09 kN/m)	24 months
Mulch Control Mats	5:1 (H:V) ±0.10 @ 5:1	0.25 lbs/ft ² (12 Pa)	25 lbs/ft (0.36 kN/m)	
Erosion Control Blankets & Open Weave Textiles (slowly degrading)	1.5:1 (H:V) ±0.25 @ 1.5:1	2.00 lbs/ft ² (96 Pa)	100 lbs/ft (1.45 kN/m)	24 months
Erosion Control Blankets & Open Weave Textiles	1:1 (H:V) ±0.25 @ 1:1	2.25 lbs/ft ² (108 Pa)	125 lbs/ft (1.82 kN/m)	36 months

* C Factor and shear stress for mulch control netting must be obtained with netting used in conjunction with pre-applied mulch material. (See Section 3.3 of Chapter 7 Construction BMPs for more information on the C Factor.)

† Minimum Average Roll Values, Machine direction using ECTC Mod. ASTM D 5035.

‡ C Factor calculated as ratio of soil loss from RECP protected slope (tested at specified or greater gradient, H:V) to ratio of soil loss from unprotected (control) plot in large-scale testing.

§ Required minimum shear stress RECP (non-vegetated) can sustain without physical damage or excess erosion (> 12.7 mm (0.5 in) soil loss) during a 30-minute flow event in large-scale testing.

¶ The permissible shear stress levels established for each performance category are based on historical experience with products characterized by Manning's roughness coefficients in the range of 0.01 - 0.05.

‡ Acceptable large-scale test methods may include ASTM D 6459, or other independent testing deemed acceptable by the engineer.

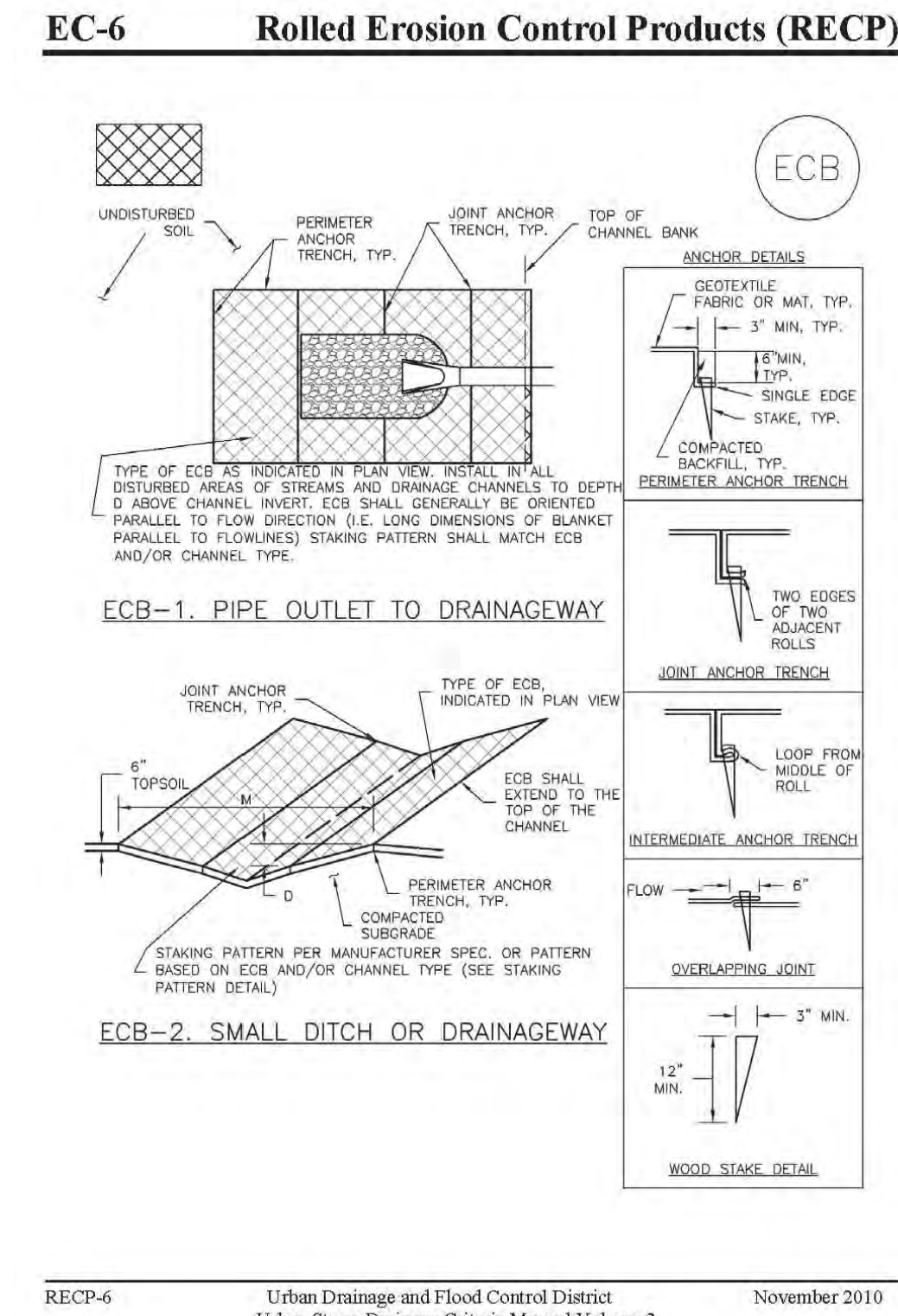
§ Per the engineer's discretion. Recommended acceptable large-scale testing protocol may include ASTM D 6460, or other independent testing deemed acceptable by the engineer.

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Urban Drainage and Flood Control District

Urban Storm Drainage Criteria Manual Volume 3

RECP-3



Rolled Erosion Control Products (RECP) EC-6

TABLE ECB-1. ECB MATERIAL SPECIFICATIONS

TYPE	COCONUT CONTENT	STRAW CONTENT	EXCLESOR CONTENT	RECOMMENDED NETTING*
STRAW*	MIN	100%	-	DOUBLE/NATURAL
STRAW-COCONUT	30% MIN	70% MAX	-	DOUBLE/NATURAL
COCONUT	100%	-	-	DOUBLE/NATURAL
EXCLESOR	-	-	100%	DOUBLE/NATURAL

* THESE ECBs WILL ONLY BE USED OUTSIDE OF STREAMS AND DRAINAGE CHANNELS. *ALTERNATE NETTING WILL BE ACCEPTABLE IN SOME JURISDICTIONS.

EROSION CONTROL BLANKET MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE REMOVED BY THE LOCAL JURISDICTION.
- ANY ECB PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW THE GEOTEXTILE THAT HAVE EXPOSED TO CREATED A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEDED AND MULCHED AND THE ECB REINSTALLED.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM LISTED STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

November 2010

Urban Drainage and Flood Control District

Urban Storm Drainage Criteria Manual Volume 3

RECP-7

EC-6 Rolled Erosion Control Products (RECP)

EROSION CONTROL BLANKET INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF ECB.
 - TYPE OF ECB (STRAW, STRAW-COCONUT, COCONUT, OR EXCLESOR).
 - AREA A, IN SQUARE YARDS OF EACH TYPE OF ECB.
- 100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED FOR RECPs, ALTHOUGH SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS.
- IN AREAS WHERE ECBs ARE SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOST PROUD TO ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.
- PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS.
- JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL ECBs EXCEPT STRAW WHICH MAY USE AN OVERLAPPING JOINT.
- INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF ROLL LENGTH FOR COCONUT AND EXCLESOR ECBs.
- OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs ON SLOPES.
- MATERIAL SPECIFICATIONS OF ECBs SHALL CONFORM TO TABLE ECB-1.
- ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING ECBs SHALL BE RESEDED AND MULCHED.
- DETAILS ON DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF DIFFERENT FROM THOSE SHOWN HERE.

Rolled Erosion Control Products (RECP) EC-6

EROSION CONTROL BLANKET MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
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NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM LISTED STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

PCD FILE # SF-20-027

NO.	REVISION	DATE

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL, COLORADO P.E. #29794

DATE



FOREST LAKES FILING NO. 6

CONSTRUCTION PLANS

GRADING AND EROSION CONTROL PLAN

DETAIL SHEET

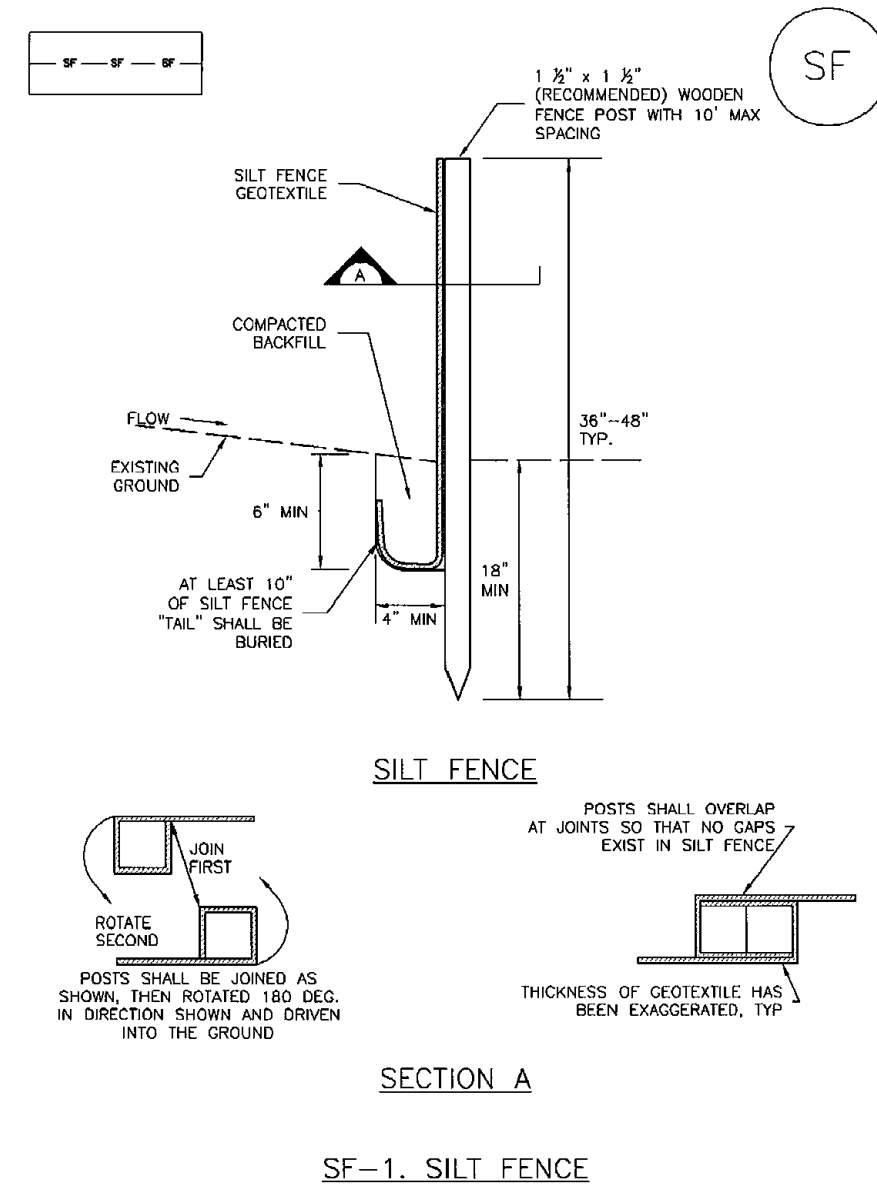
DESIGNED BY	MAL	SCALE	DATE
			08/04/2020

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CHECKED BY	(V) 1"= N/A	JOB NO.	1175.50

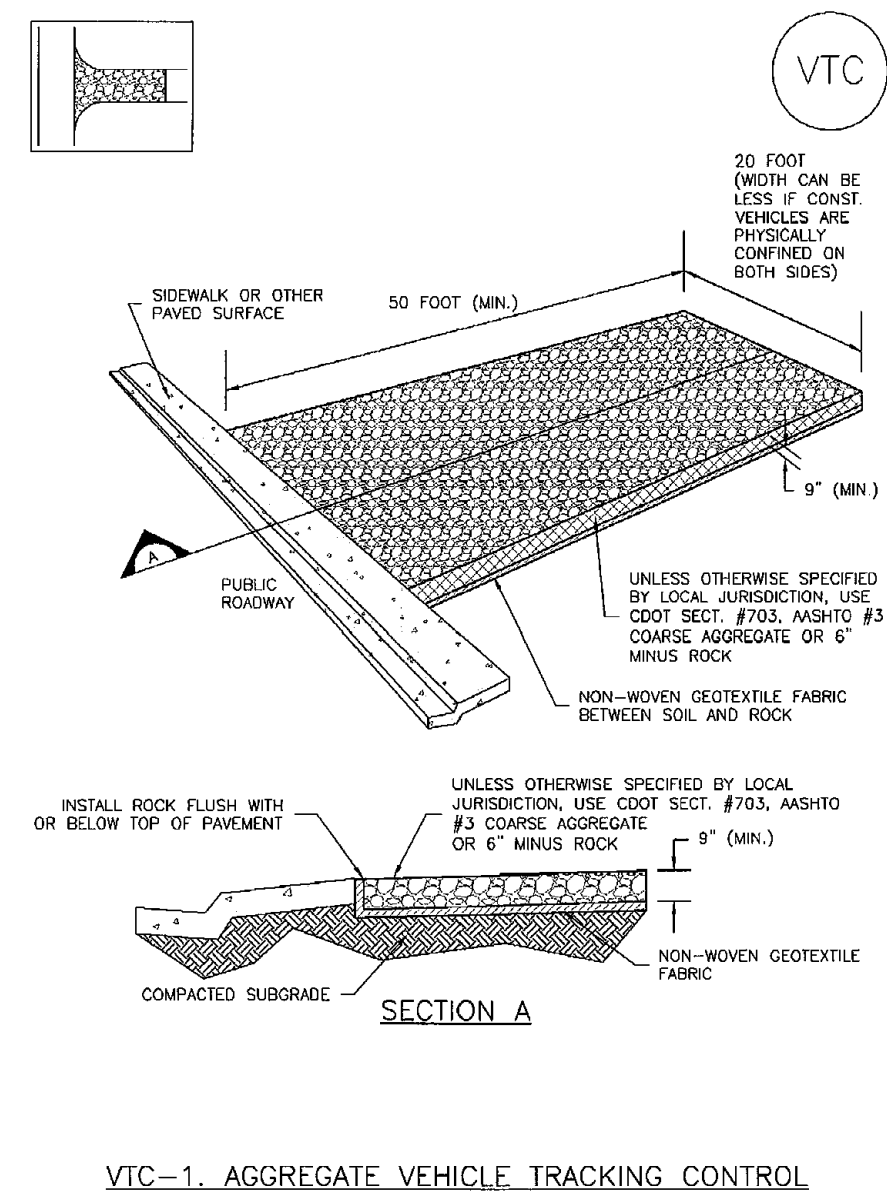
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Silt Fence (SF) SC-1



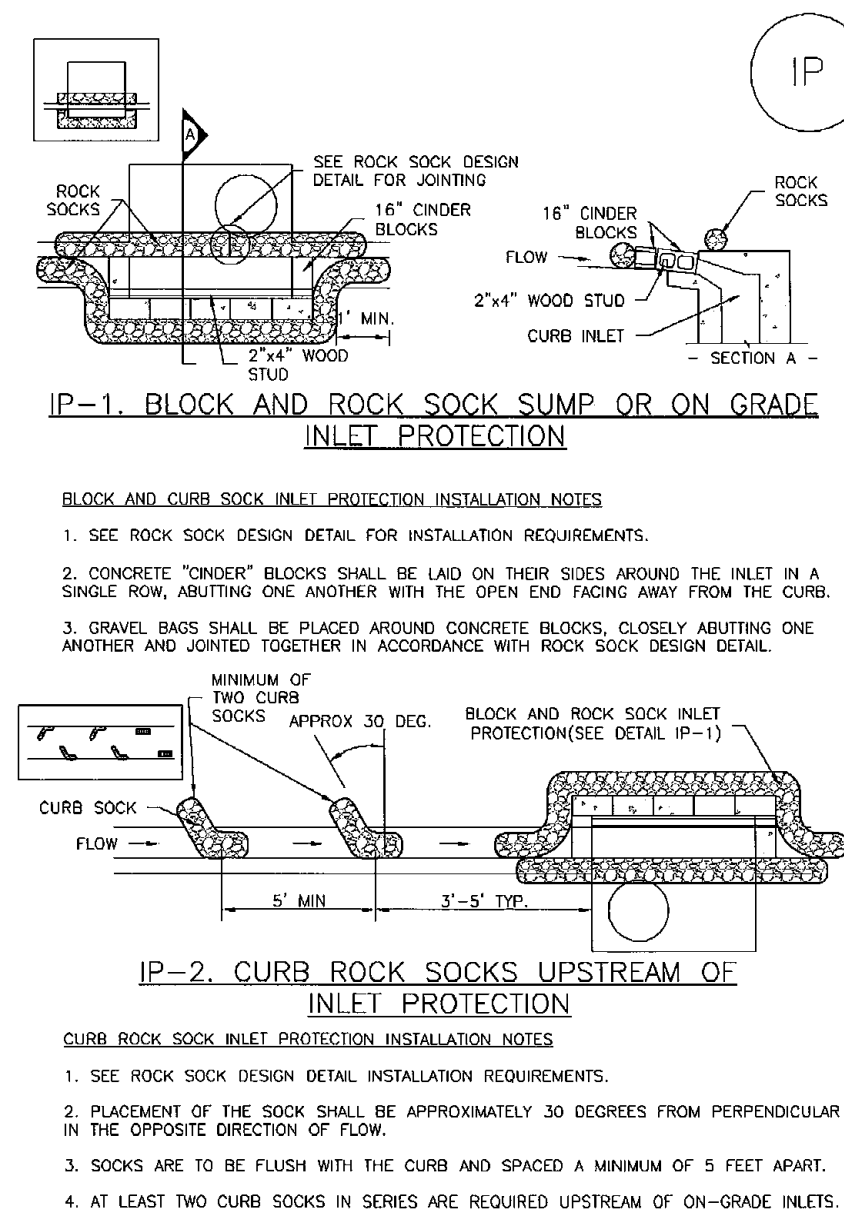
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SF-3

Vehicle Tracking Control (VTC) SM-4



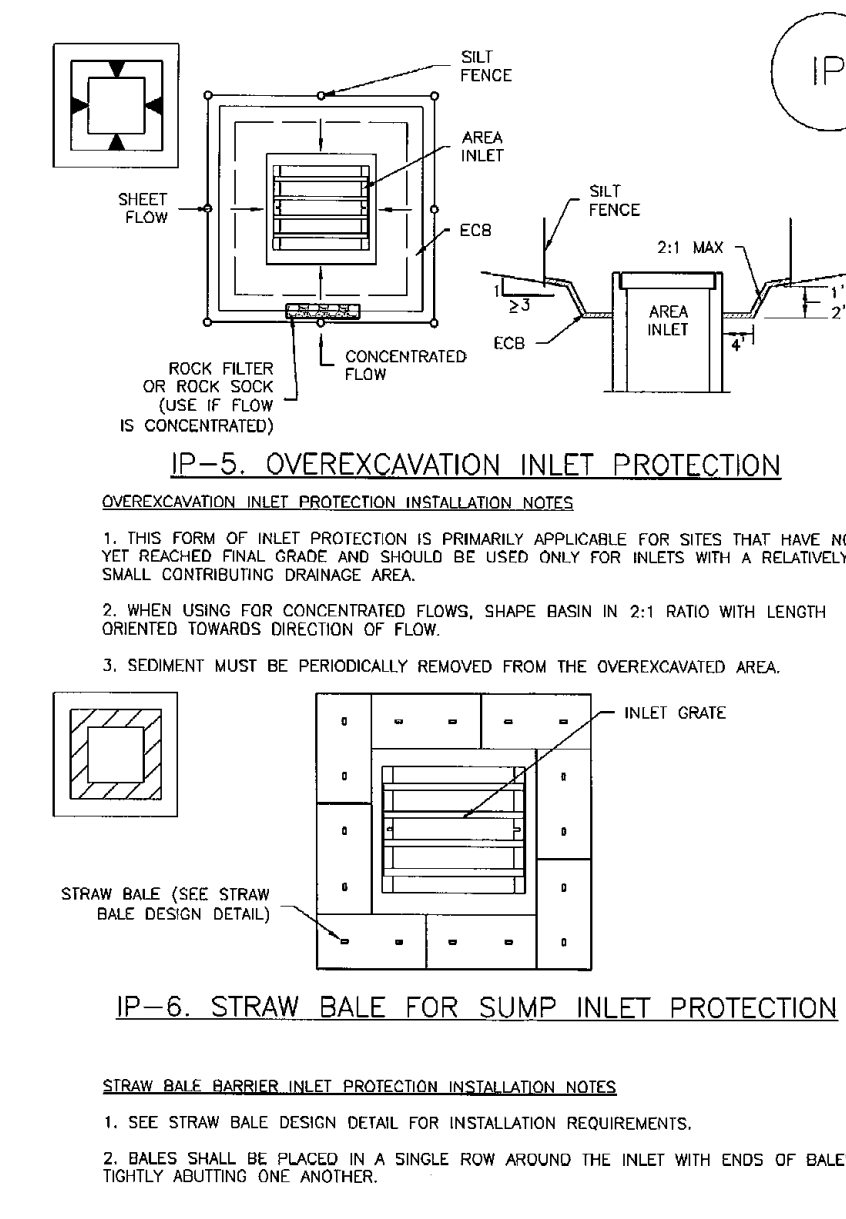
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-3

SC-6 Inlet Protection (IP)



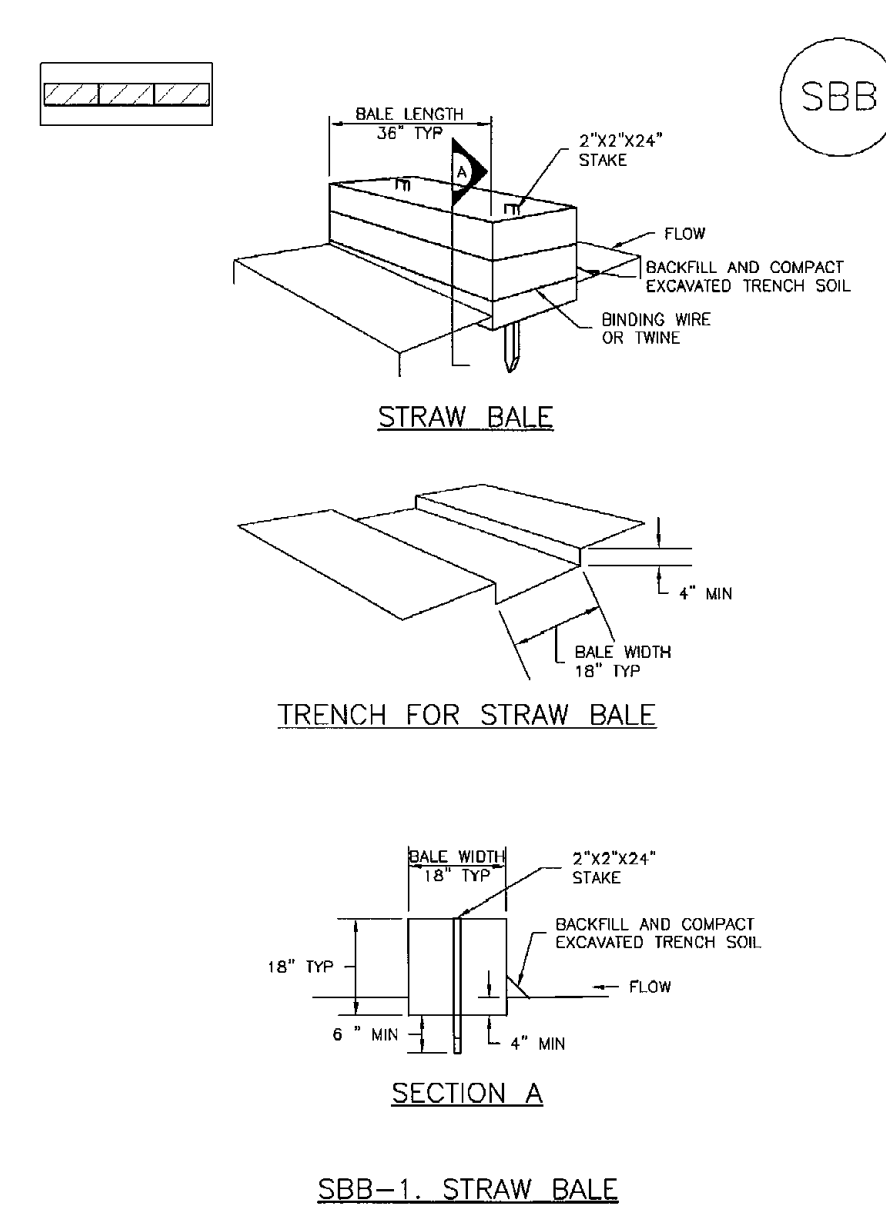
IP-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

SC-6 Inlet Protection (IP)



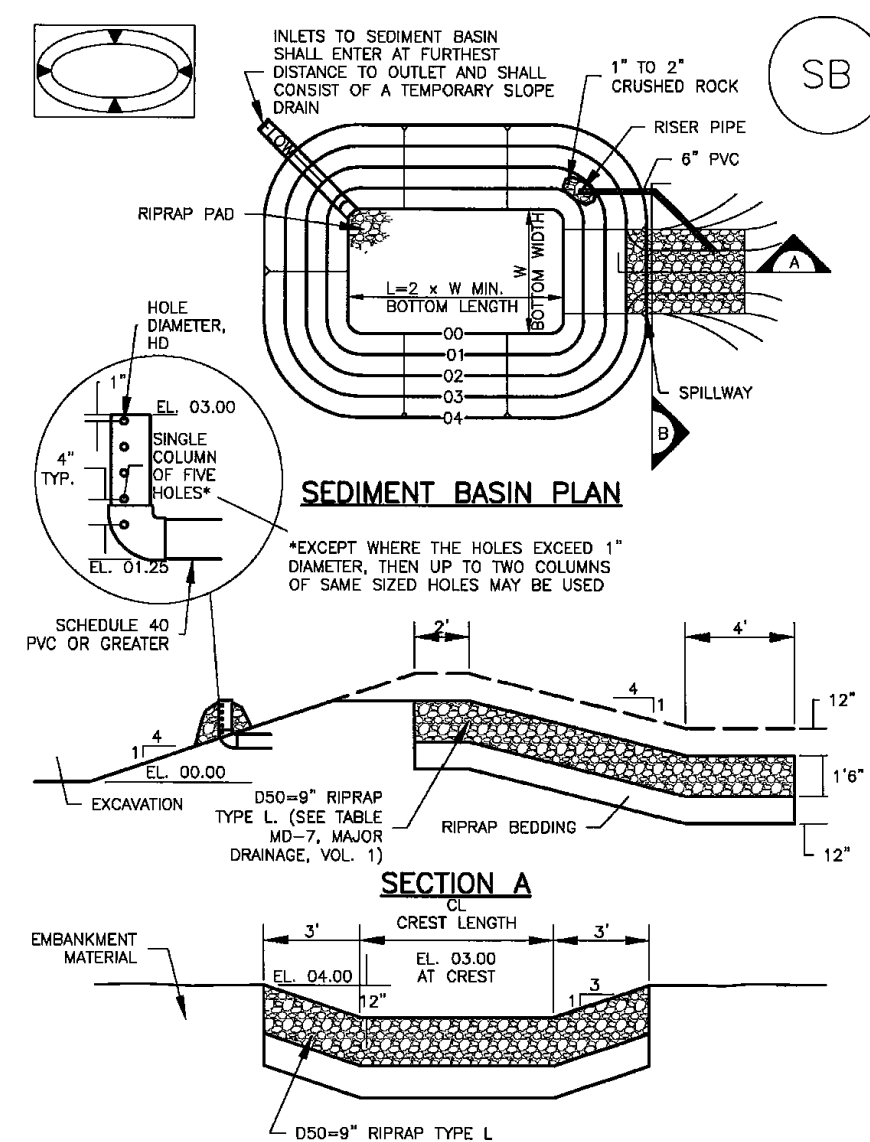
IP-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

SC-3 Straw Bale Barrier (SBB)



SBB-2 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Sediment Basin (SB) SC-7



August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SB-5

SC-7 Sediment Basin (SB)

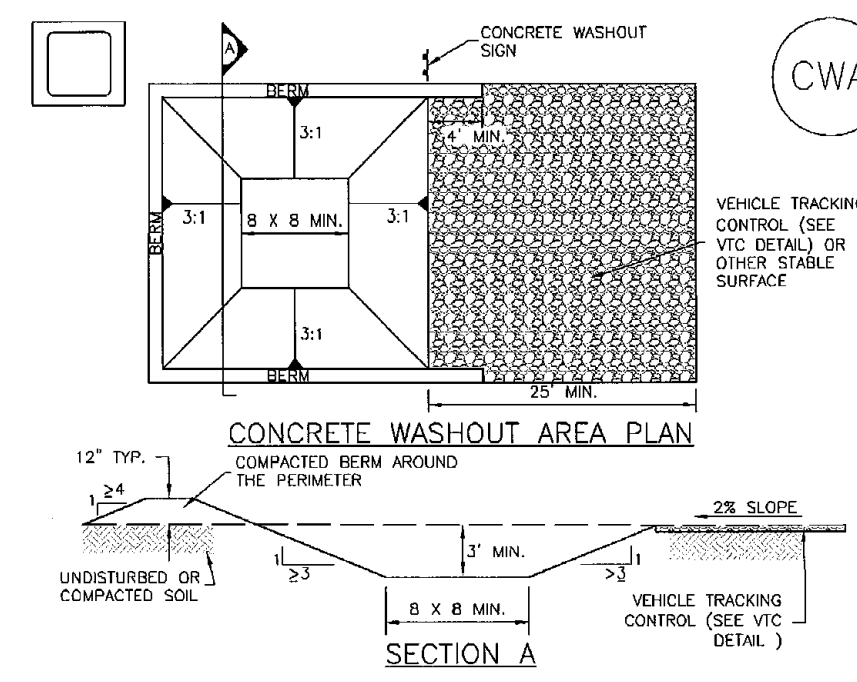
Upstream Drainage Area (rounded to nearest acre), (ac)	Basin Bottom Width (W), (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (HD), (in)
1	12 1/2	2	3/4
2	21	3	1 1/4
3	28	4	1 3/4
4	33 1/2	5	2
5	38 1/2	6	2 1/4
6	43	7	2 3/4
7	47 1/2	8	3
8	51	9	3 1/4
9	55	10	3 1/2
10	58 1/2	11	3 3/4
11	61	12	4
12	64	13	4 1/4
13	67 1/2	14	4 1/2
14	70 1/2	15	4 3/4
15	73 1/2	16	5

SEDIMENT BASIN INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF SEDIMENT BASIN.
 - TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN).
 - TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN).
 - TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN).
 - TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN).
- FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
- SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON OR DEPENDS AS A STORMWATER CONTROL.
- EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
- EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
- PIPE SCH 40 OR GREATER SHALL BE USED.
- THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

SB-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

Concrete Washout Area (CWA) MM-1



CWA-1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - CWA INSTALLATION LOCATION.
- DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS UNFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (4 MIL MIN. THICKNESS) OF SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LIQUID APPLIED GROUND STORAGE ARE SHOWN IN DETAIL.
- THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
- CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER THE PIT SHALL BE AT LEAST 3' DEEP.
- BENCH SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
- VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
- SDS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP TRUCKS.
- USE EXCAVATED MATERIAL FOR PERIMETER BENCH CONSTRUCTION.

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MM-1 Concrete Washout Area (CWA)

CWA MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE, CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.
- CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
- THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
- WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN HISTORIC).
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM IUCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

CWA-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

NO.	REVISION	DATE
1	REVISED PER EPC COMMENTS	8-21-19

REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE

PCD FILE # SF-20-027

FOREST LAKES FILING NO. 6
CONSTRUCTION PLANS
GRADING AND EROSION CONTROL PLAN
EROSION CONTROL DETAILS

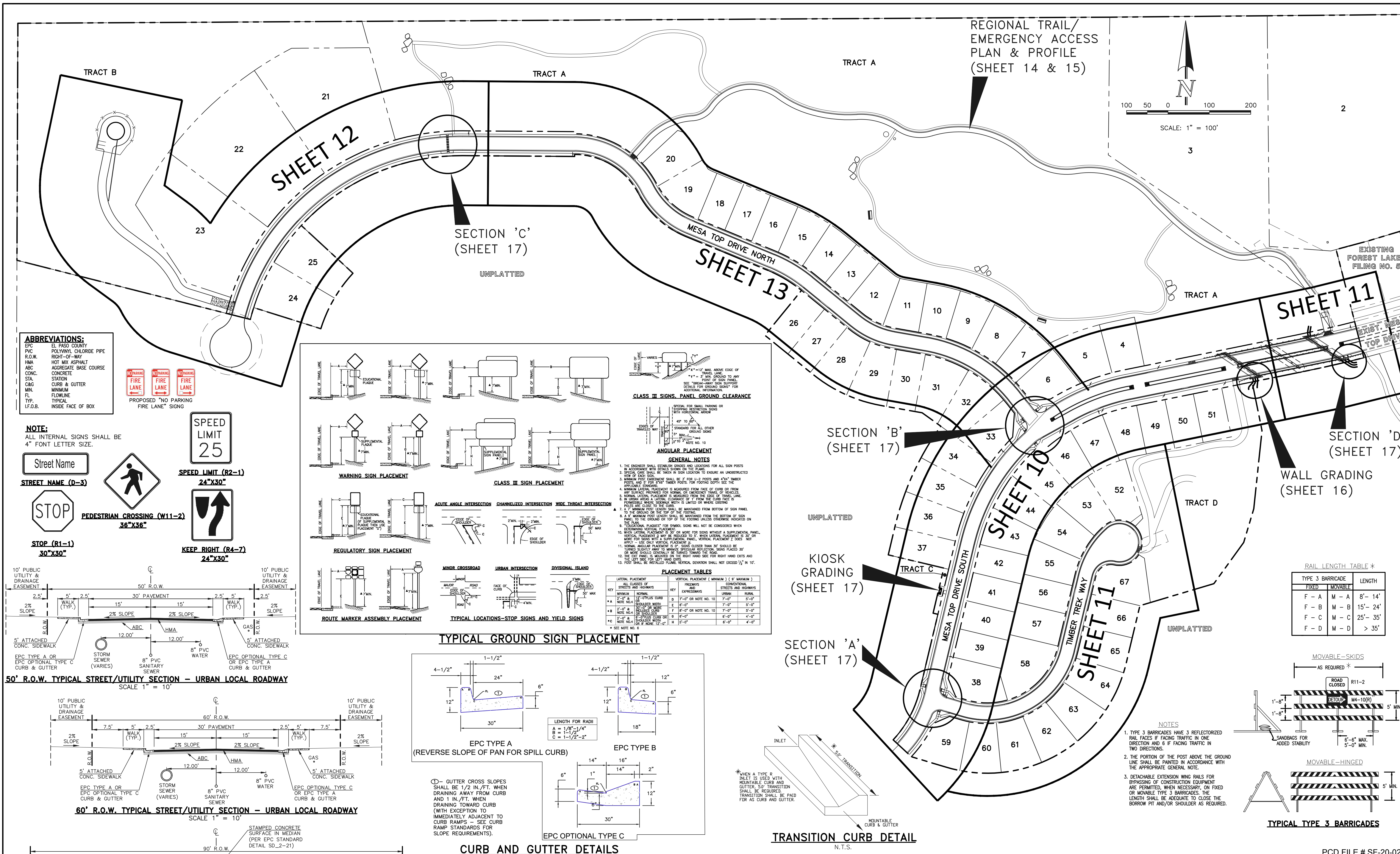
CLASSIC CONSULTING

DESIGNED BY: MAL SCALE: DATE: 08/04/2020
DRAWN BY: MES (H) 1"= N/A SHEET 8 OF 30
CHECKED BY: (V) 1"= N/A JOB NO. 1175.50

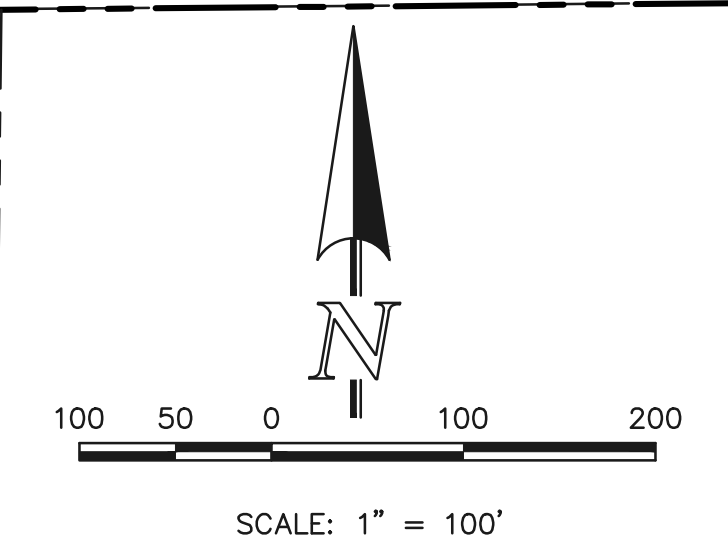
619 N. Cascade Avenue, Suite 200 (719)785-0790
Colorado Springs, Colorado 80903 (719)785-0799(Fax)

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS
811
UTILITY NOTIFICATION CENTER OF COLORADO
IT'S THE LAW

THE LOCATIONS OF EXISTING 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 UNDERGROUND UTILITIES.



REGIONAL TRAIL/
EMERGENCY ACCESS
PLAN & PROFILE
(SHEET 14 & 15)

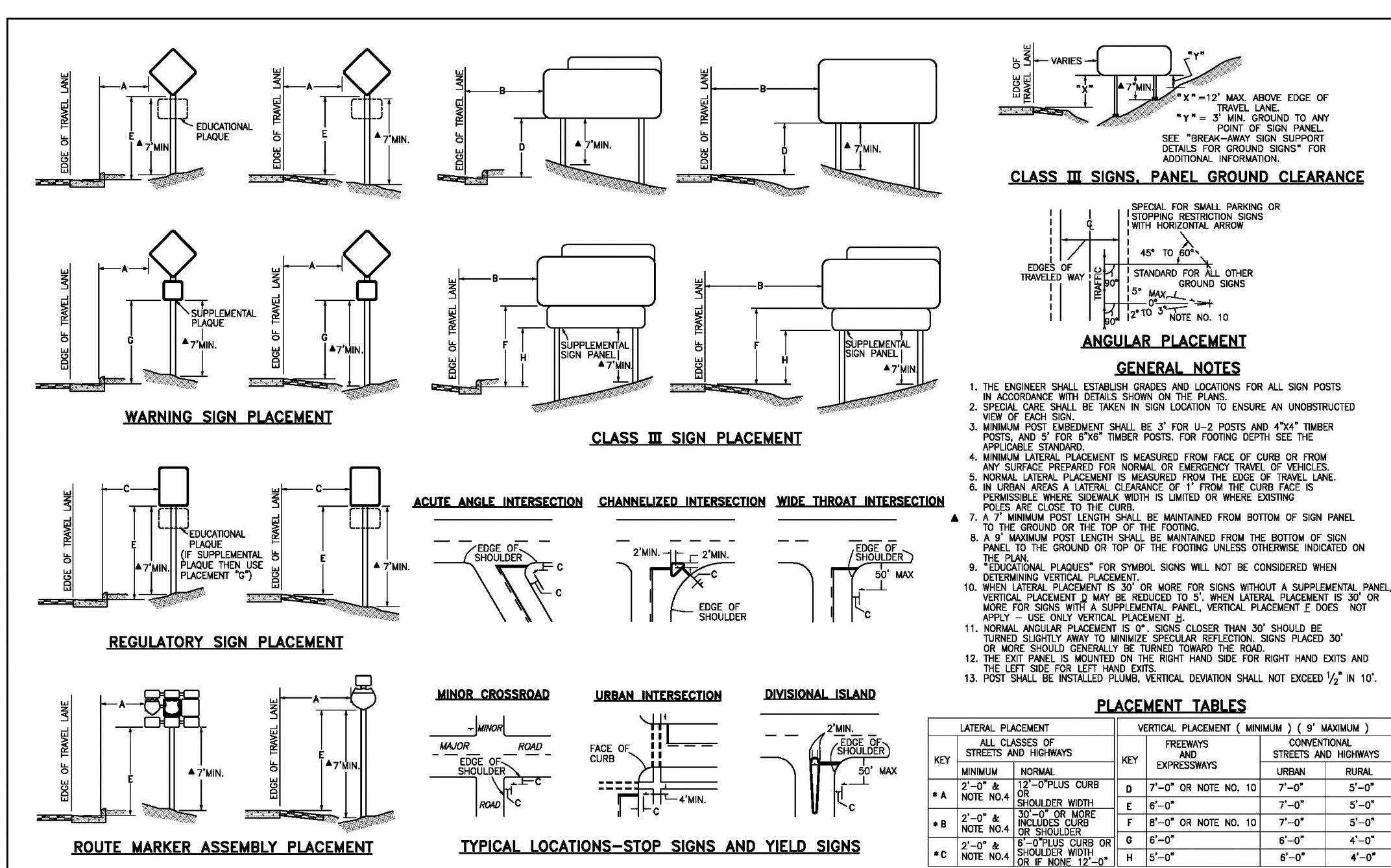
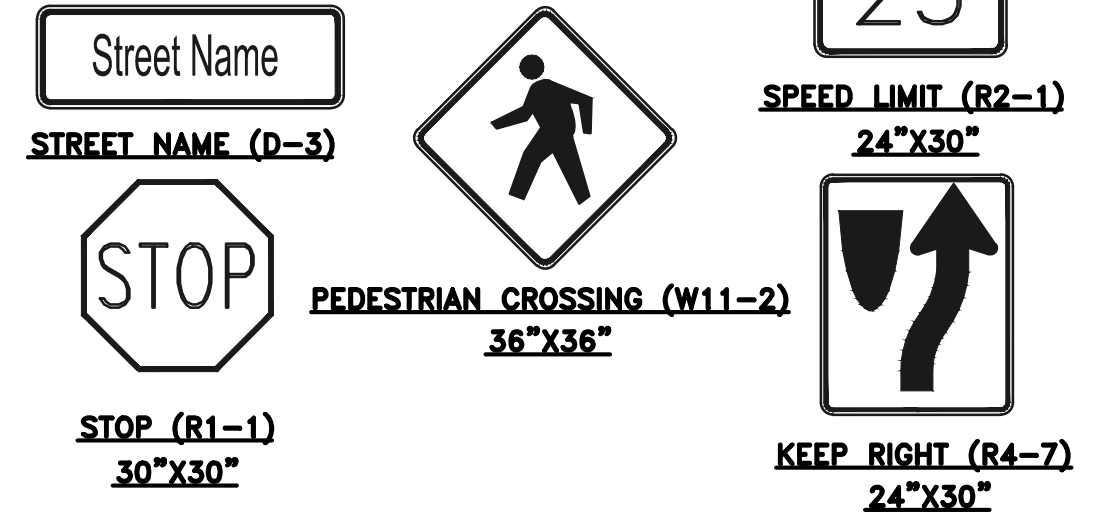


ABBREVIATIONS:

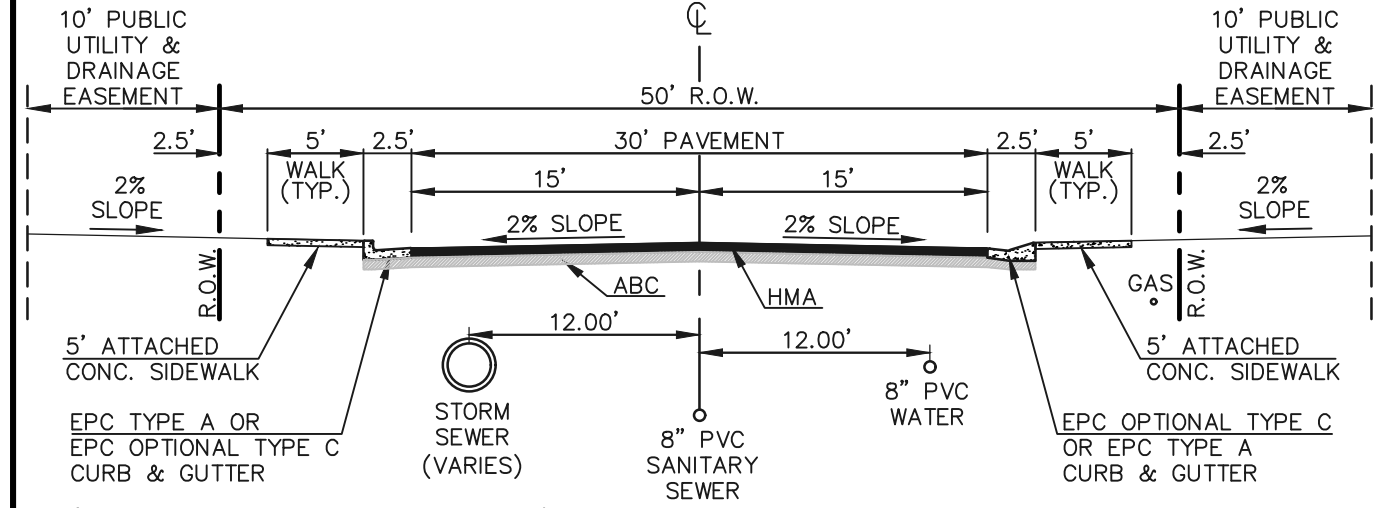
EPC	EL PASO COUNTY
PVC	POLYVINYL CHLORIDE PIPE
R.O.W.	RIGHT-OF-WAY
HMA	HOT MIX ASPHALT
ABC	AGGREGATE BASE COURSE
CONC.	CONCRETE
STA.	STATION
C&G	CURB & GUTTER
MIN.	MINIMUM
FL	FLOWLINE
TYP.	TYPICAL
I.F.O.B.	INSIDE FACE OF BOX



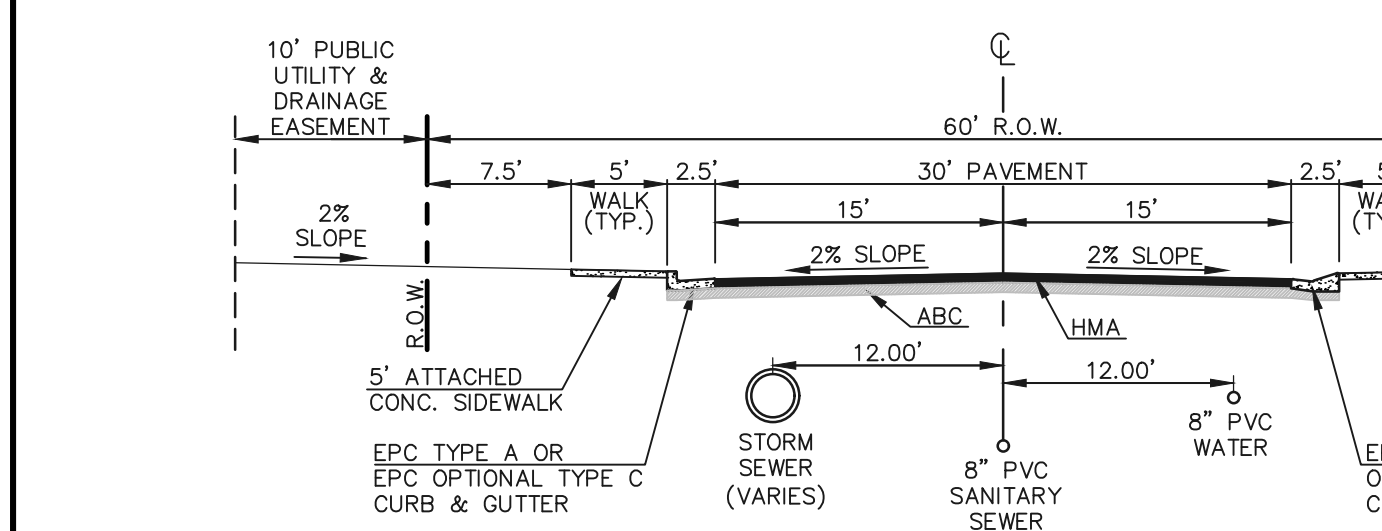
NOTE:
ALL INTERNAL SIGNS SHALL BE
4" FONT LETTER SIZE.



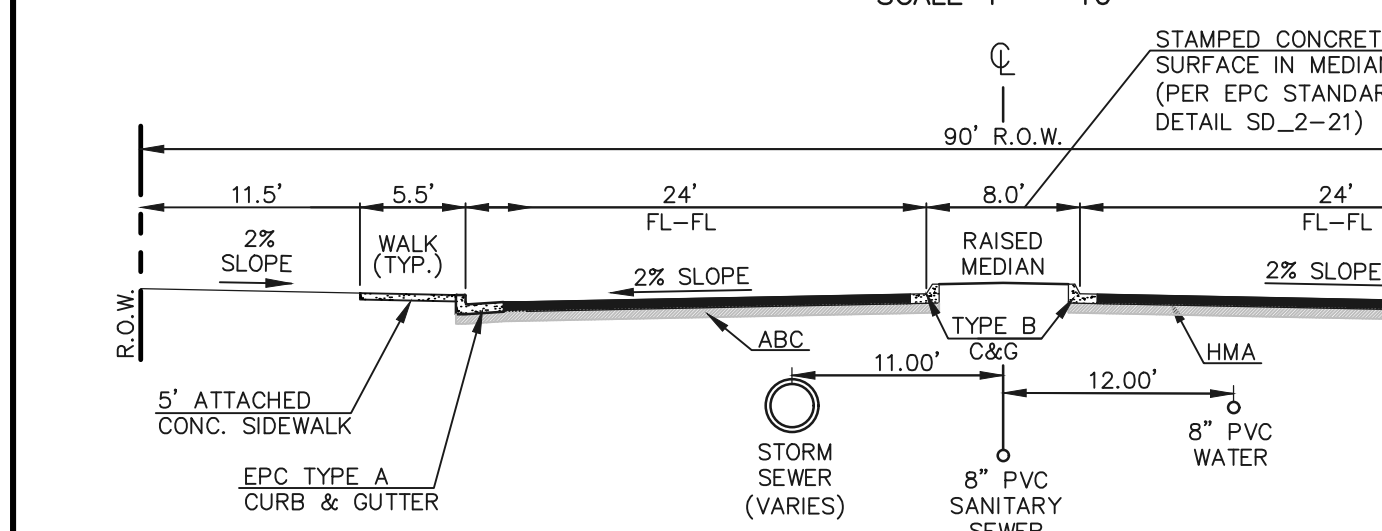
TYPICAL GROUND SIGN PLACEMENT



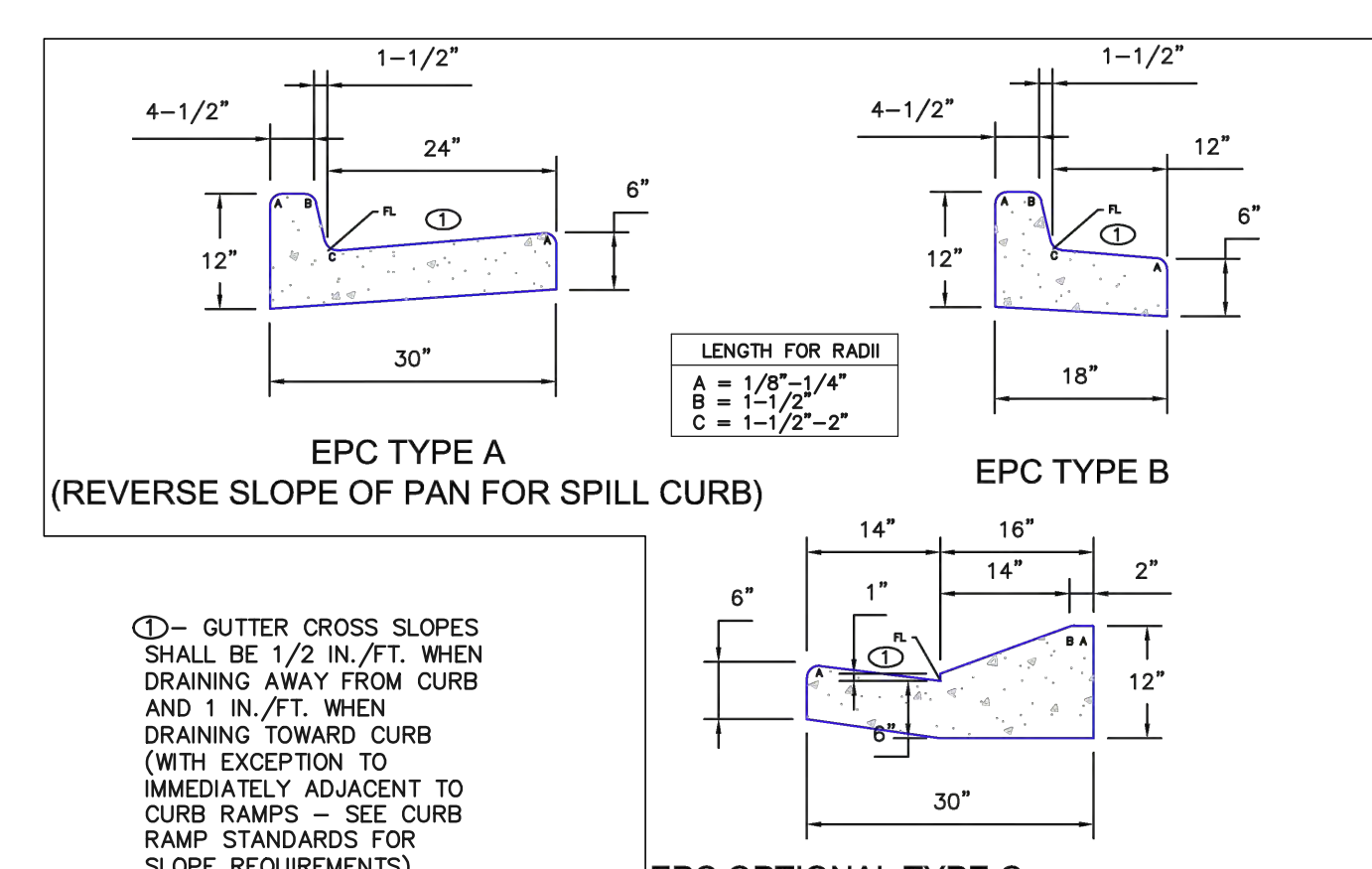
50' R.O.W. TYPICAL STREET/UTILITY SECTION - URBAN LOCAL ROADWAY
SCALE 1" = 10'



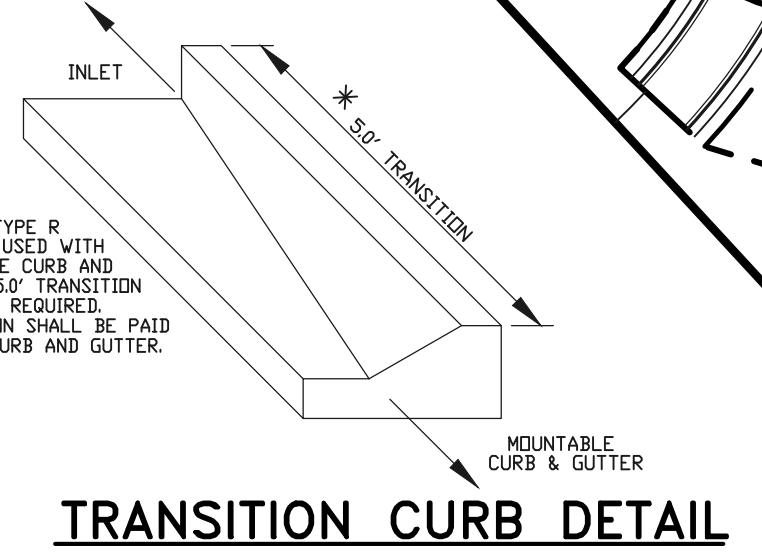
60' R.O.W. TYPICAL STREET/UTILITY SECTION - URBAN LOCAL ROADWAY
SCALE 1" = 10'



90' R.O.W. TYPICAL STREET/UTILITY SECTION - URBAN LOCAL ROADWAY
SCALE 1" = 10'



CURB AND GUTTER DETAILS



TRANSITION CURB DETAIL
N.T.S.

SECTION 'B'
(SHEET 17)

SECTION 'D'
(SHEET 17)

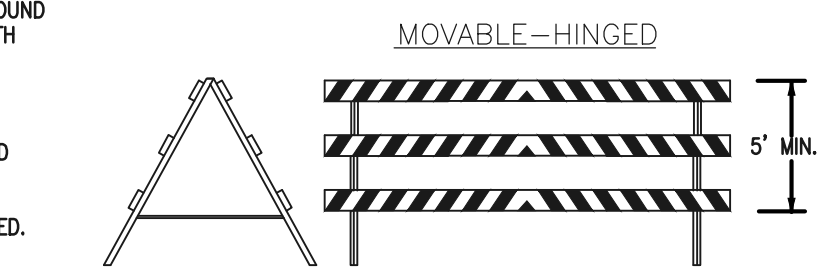
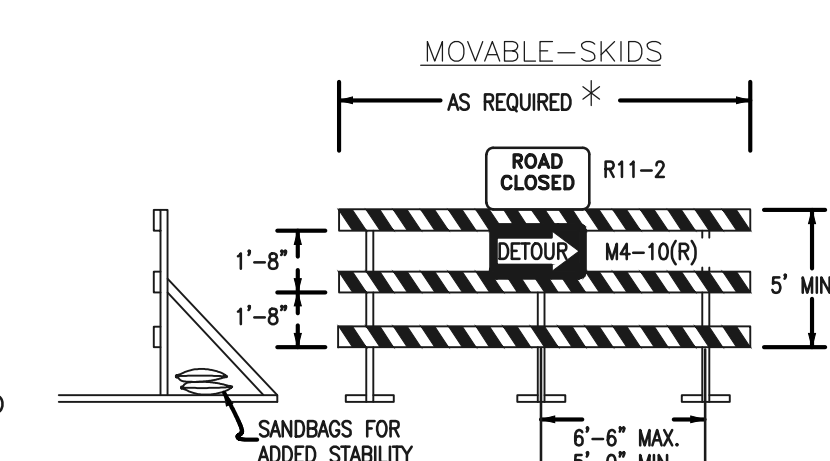
WALL GRADING
(SHEET 16)

KIOSK GRADING
(SHEET 17)

SECTION 'A'
(SHEET 17)

RAIL LENGTH TABLE *

TYPE 3 BARRICADE		LENGTH
FIXED	MOVABLE	
F - A	M - A	8' - 14'
F - B	M - B	15' - 24'
F - C	M - C	25' - 35'
F - D	M - D	> 35'



TYPICAL TYPE 3 BARRICADES

- NOTES**
- TYPE 3 BARRICADES HAVE 3 REFLECTORIZED RAIL FACES IF FACING TRAFFIC IN ONE DIRECTION AND 6 IF FACING TRAFFIC IN TWO DIRECTIONS.
 - THE PORTION OF THE POST ABOVE THE GROUND LINE SHALL BE PAINTED IN ACCORDANCE WITH THE APPROPRIATE GENERAL NOTE.
 - DETACHABLE EXTENSION WING RAILS FOR BYPASSING OF CONSTRUCTION EQUIPMENT ARE PERMITTED, WHEN NECESSARY, ON FIXED OR MOVABLE TYPE 3 BARRICADES. THE LENGTH SHALL BE ADEQUATE TO CLOSE THE BORROW PIT AND/OR SHOULDER AS REQUIRED.

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NO.	REVISION	DATE

REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE

PCD FILE # SF-20-027

FOREST LAKES FILING NO. 6
PUBLIC STREET IMPROVEMENT PLAN
KEY MAP WITH TYPICAL STREET SECTIONS

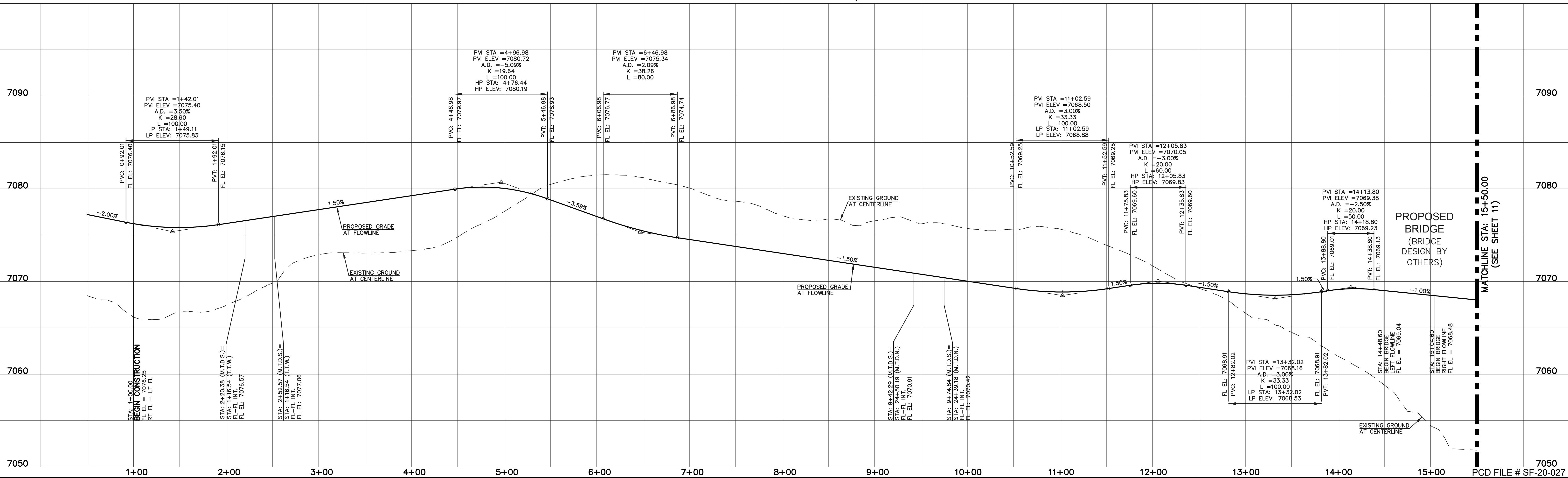
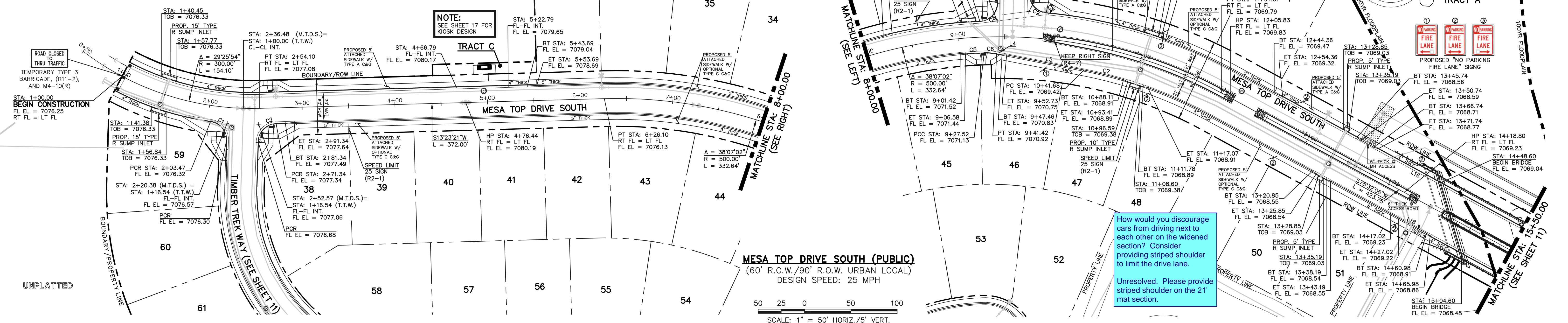
CLASSIC CONSULTING

DESIGNED BY: MAL SCALE: DATE: 08/04/2020
DRAWN BY: MES (H) 1" = 100' SHEET 9 OF 30
CHECKED BY: (V) 1" = N/A JOB NO. 1175.60

619 N. Cascade Avenue, Suite 200 (719) 785-0790
Colorado Springs, Colorado 80903 (719) 785-0799(Fax)

CURVE #	LENGTH	RADIUS	DELTA
C1	29.22	20.00	83°41'48"
C2	30.24	20.00	86°38'01"
C5	20.22	483.00	2°23'55"
C6	13.51	59.17	13°04'56"
C7	43.91	472.83	51°9'14"
C8	30.04	20.00	86°02'57"
C9	30.06	20.00	86°07'43"

LINE #	LENGTH	DIRECTION
L4	5.92	S61°00'40"W
L5	85.01	S61°00'40"W
L16	397.07	S78°32'10"W
L18	280.41	S78°32'10"W



STREET ABBREVIATION INDEX:
M.T.D.N. MESA TOP DRIVE NORTH
M.T.D.S. MESA TOP DRIVE SOUTH
T.T.W. TIMBER TREK WAY

WALK CONSTRUCTION:
 4" THICK SIDEWALK ALLOWED ALONG OPEN SPACE TRACTS & "ESTATE LOT" FRONTAGE. 5" THICK SIDEWALK TYPICAL ALONG RESIDENTIAL LOTS PER EL PASO COUNTY DIRECTION. 6" REQUIRED AT DRIVEWAY CONNECTIONS PER DETAILS SD 2-24 & SD 2-25 ON SHEET 7. WALK INSTALLED NOT AT 6" THICKNESS WILL BE RE-CONSTRUCTED WITH DRIVEWAY PERMIT AND INSTALLATION AS REQUIRED.

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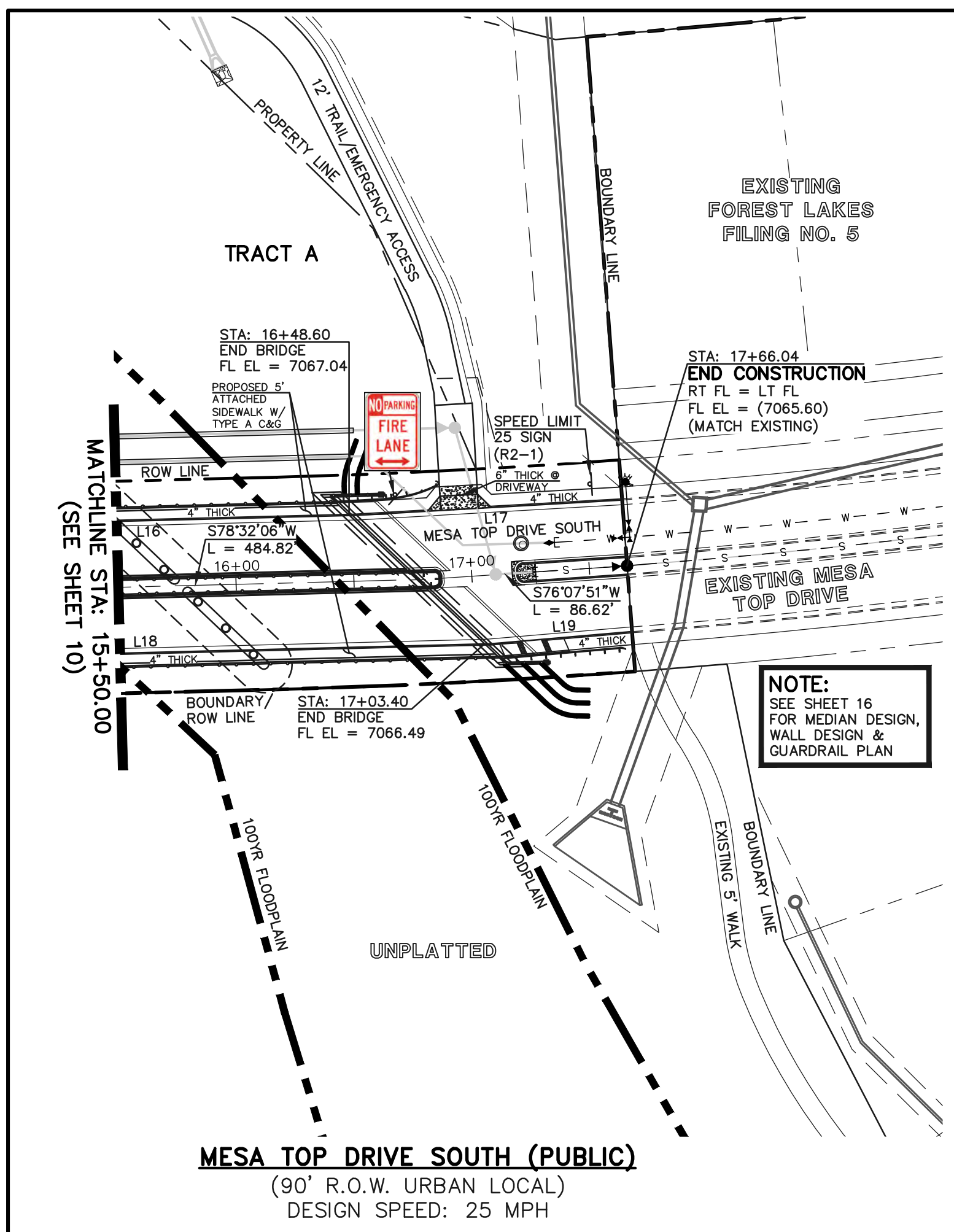
NO.	REVISION	DATE

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KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE

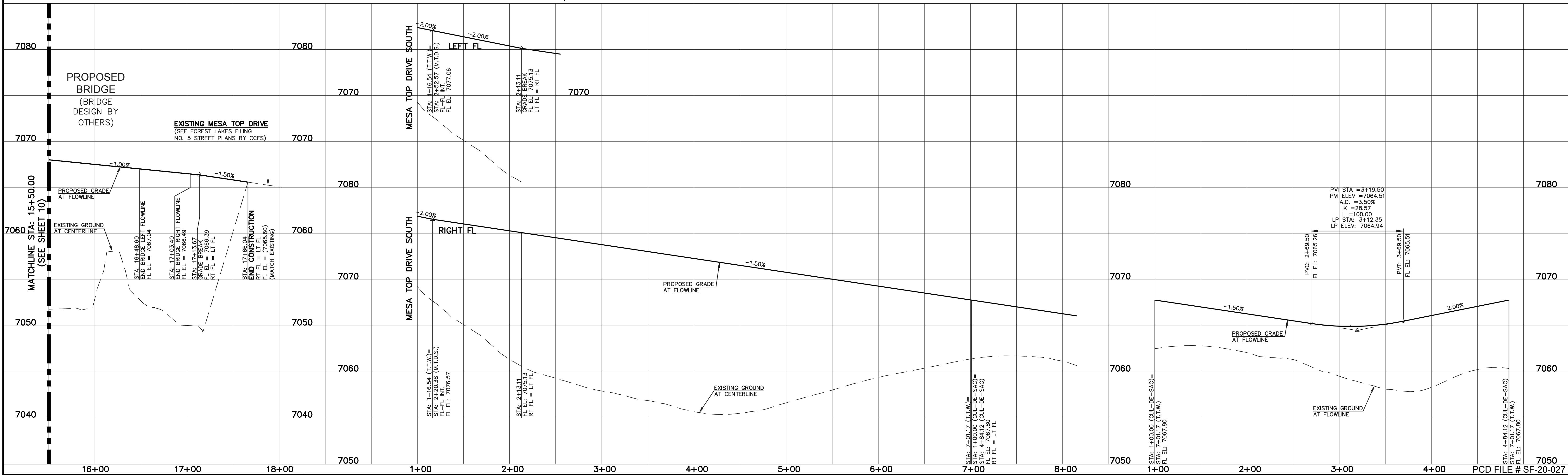
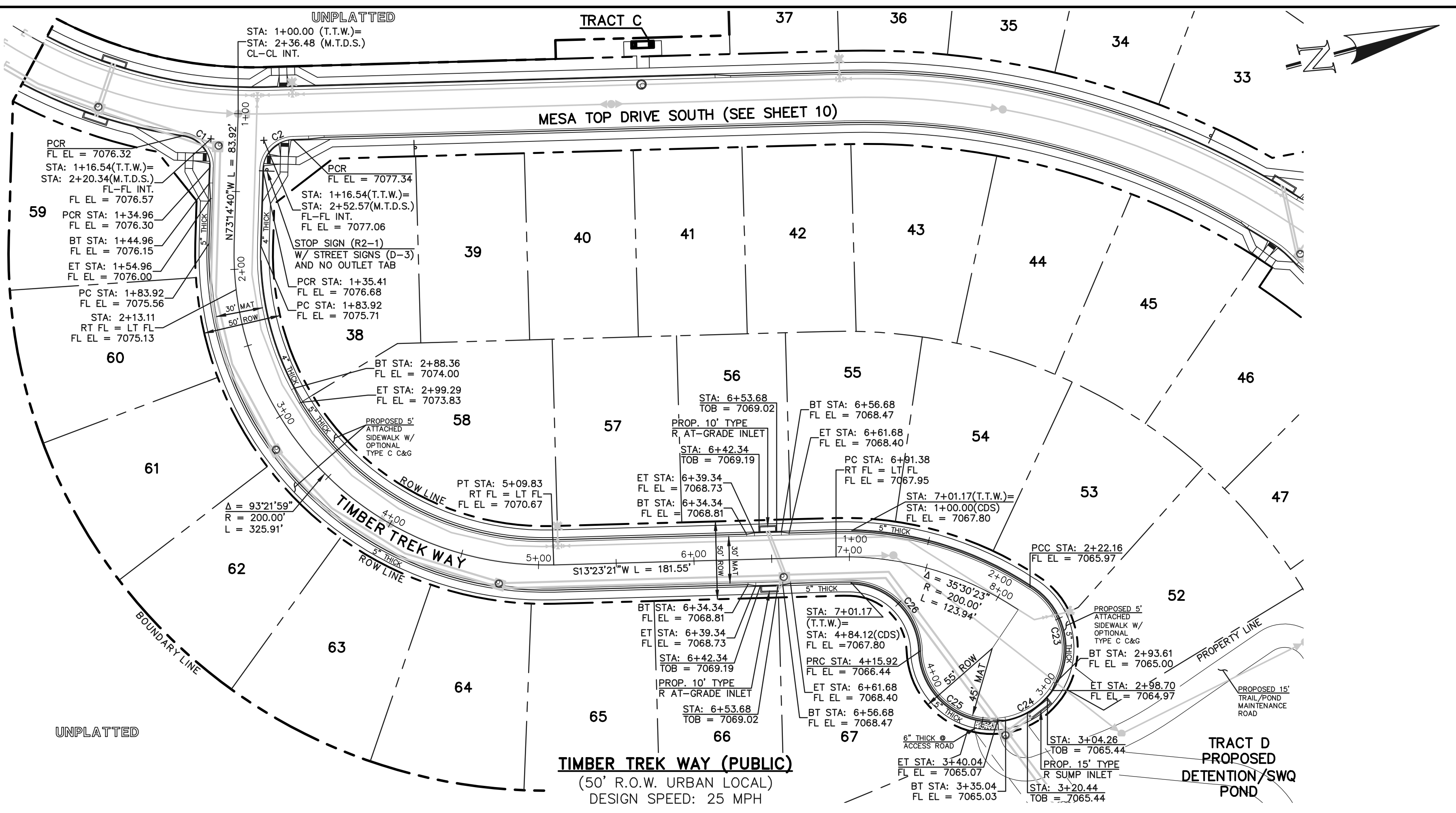


FOREST LAKES FILING NO. 6 PUBLIC STREET IMPROVEMENT PLAN			
MESA TOP DRIVE SOUTH STA. 1+00.00 TO STA. 15+50.00			
DESIGNED BY	MAL	SCALE	DATE 08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET 10 OF 30
CHECKED BY	(V) 1" = 5'	JOB NO.	1175.60



LINE #	LENGTH	DIRECTION
L16	397.07	S78°32'10"W
L17	113.22	S76°42'50"W
L18	280.41	S78°32'10"W
L19	60.03	S75°02'00"W

CURVE #	LENGTH	RADIUS	DELTA
C1	29.22	20.00	83°41'48"
C2	30.24	20.00	86°38'01"
C23	70.18	46.17	87°05'32"
C24	36.34	47.00	44°17'50"
C25	74.54	46.17	92°29'50"
C26	69.46	45.83	86°50'13"



M.T.D.N.	MESA TOP DRIVE NORTH
M.T.D.S.	MESA TOP DRIVE SOUTH
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 KYLE R. CAMPBELL, COLORADO P.E. #29794



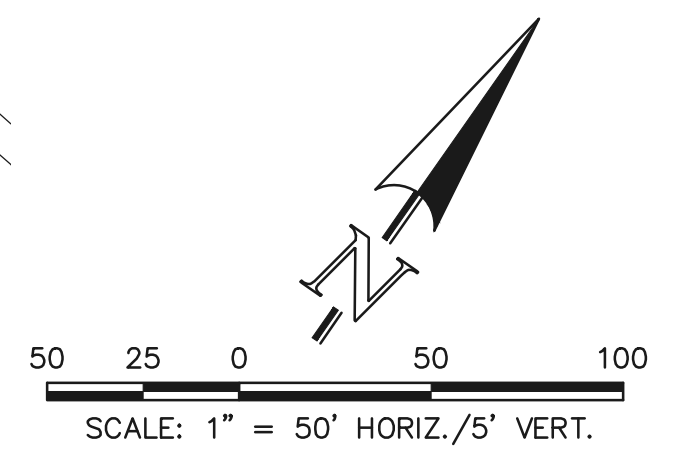
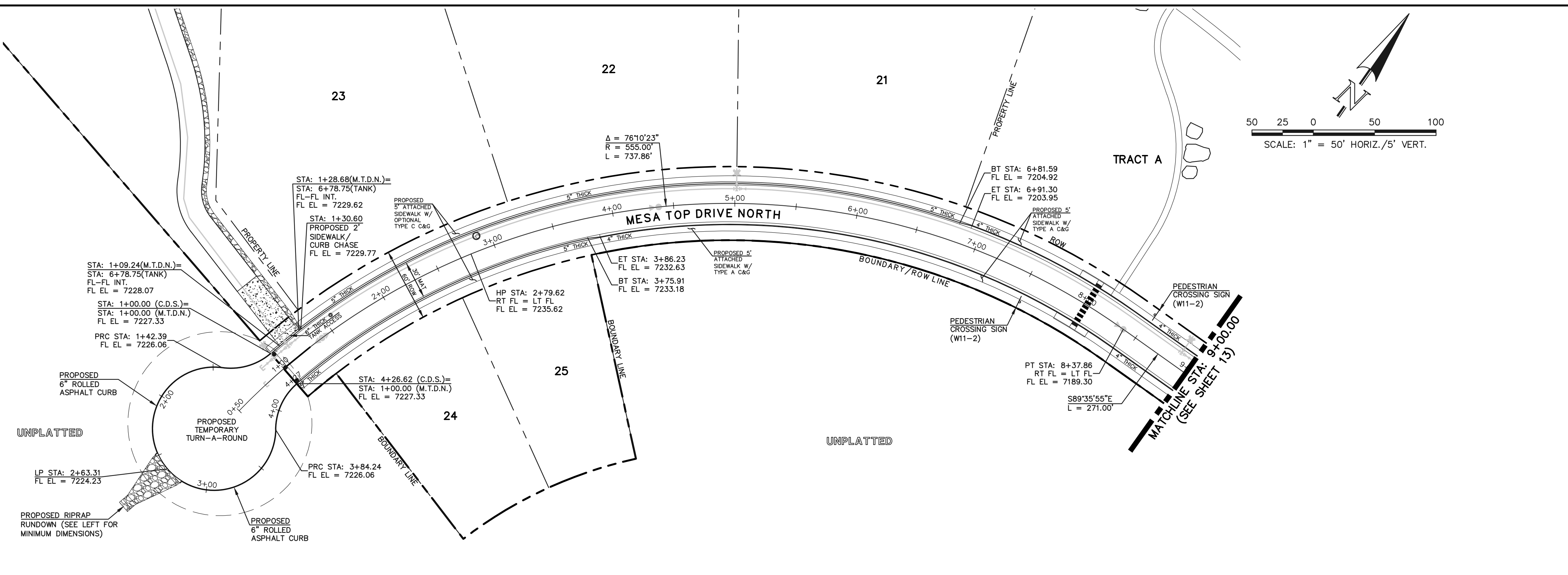
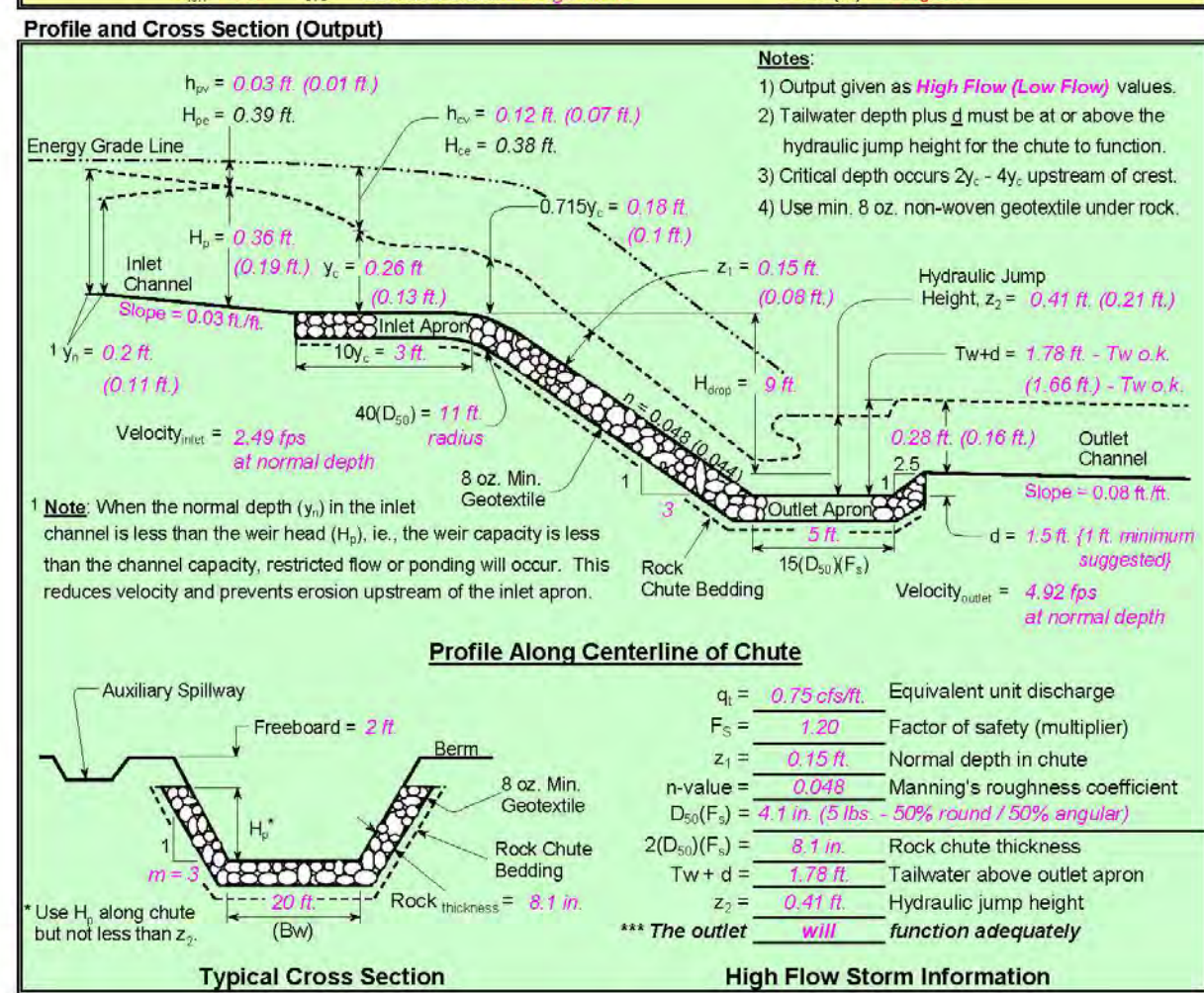
FOREST LAKES FILING NO. 6
 PUBLIC STREET IMPROVEMENT PLAN
 MESA TOP DRIVE SOUTH STA: 15+50.00 - END
 TIMBER TREK WAY/TIMBER TREK CUL-DE-SAC
 DESIGNED BY MAL SCALE DATE 08/04/2020
 DRAWN BY MES (H) 1" = 50' SHEET 11 OF 30
 CHECKED BY (V) 1" = 5' JOB NO. 1175.60

Rock Chute Design Data

(Version 4.01 - 04/23/03, Based on Design of Rock Chutes by Robinson, Rice, Kadavy, ASAE, 1998)
 Project: Forest Lakes Filing 6 - End of Road County: El Paso
 Designer: Matt Larson Checked by: _____
 Date: 12/23/2020

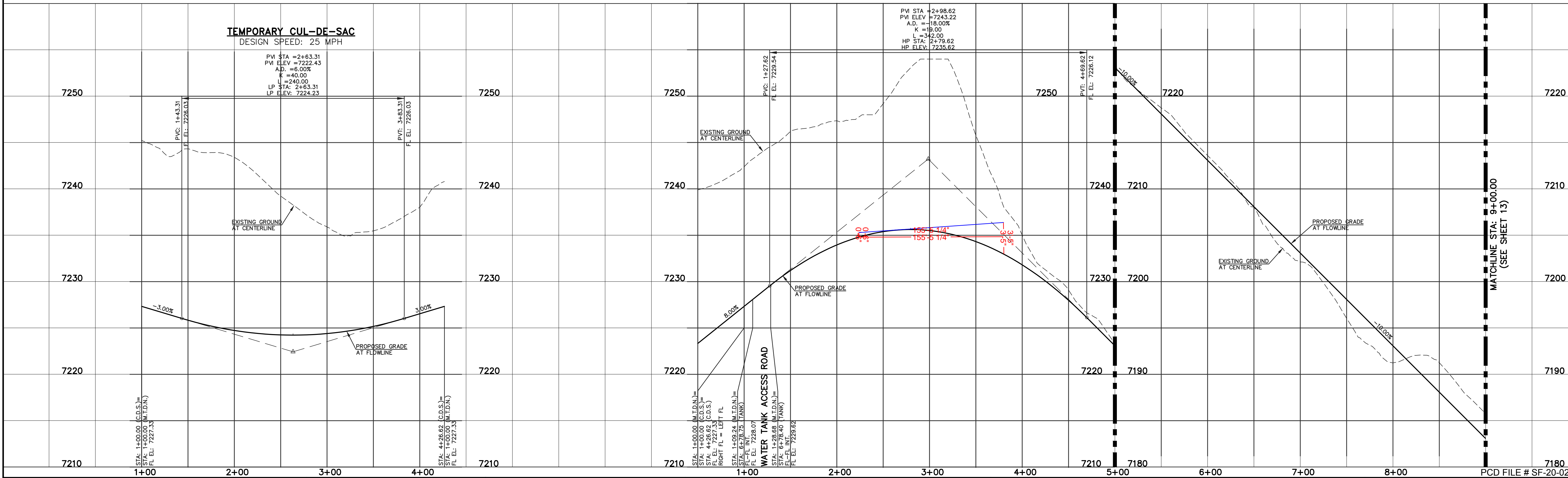
Input Channel Geometry	Chute	Outlet Channel
Inlet Channel		Outlet Channel
Bw = 30.0 ft.	Bw = 20.0 ft.	Bw = 10.0 ft.
Side slopes = 3:0 (m:1)	Factor of safety = 1.20 (F _s)	Side slopes = 3:0 (m:1)
n-value = 0.035	Side slopes = 3:0 (m:1) → 3.0:1 max.	n-value = 0.035
Bed slope = 0.0300 ft./ft.	Bed slope (3:1) = 0.333 ft./ft. → 2.5:1 max.	Bed slope = 0.0300 ft./ft.
Freeboard = 2.0 ft.	Outlet apron depth d = 1.5 ft.	Base flow = 0.0 cfs

Design Storm Data (Table 2, NHCP, NRCS Grade Stabilization Structure No. 410)		
Drainage area = 4.0 acres	Rainfall = 0.97 in. (2.5 mm)	Note: The total required capacity is routed through the chute (principal spillway) or through the chute (principal spillway) or through the chute (principal spillway) or through the chute (principal spillway)
Apron elev. - Inlet = 7224.5 ft. - Outlet = 7214.0 ft. - H _{weir} = 0.8 ft.		
Chute capacity = Q10-year	Minimum capacity (based on a 5-year, 24-hour storm with a 3 - 5 inch rainfall)	Input tailwater (Tw)
Total capacity = Q25-year		Q _{up} = 15.2 cfs High flow storm through chute
		Q _{down} = 5.6 cfs Low flow storm through chute
		Tw (ft.) = Program



TEMPORARY CUL-DE-SAC

DESIGN SPEED: 25 MPH
 PVI STA = 2+63.31
 PVI ELEV = 7222.43
 A.D. = 6.00%
 K = 40.00
 L = 240.00
 LP STA = 2+63.31
 LP ELEV = 7224.23



STREET ABBREVIATION INDEX:

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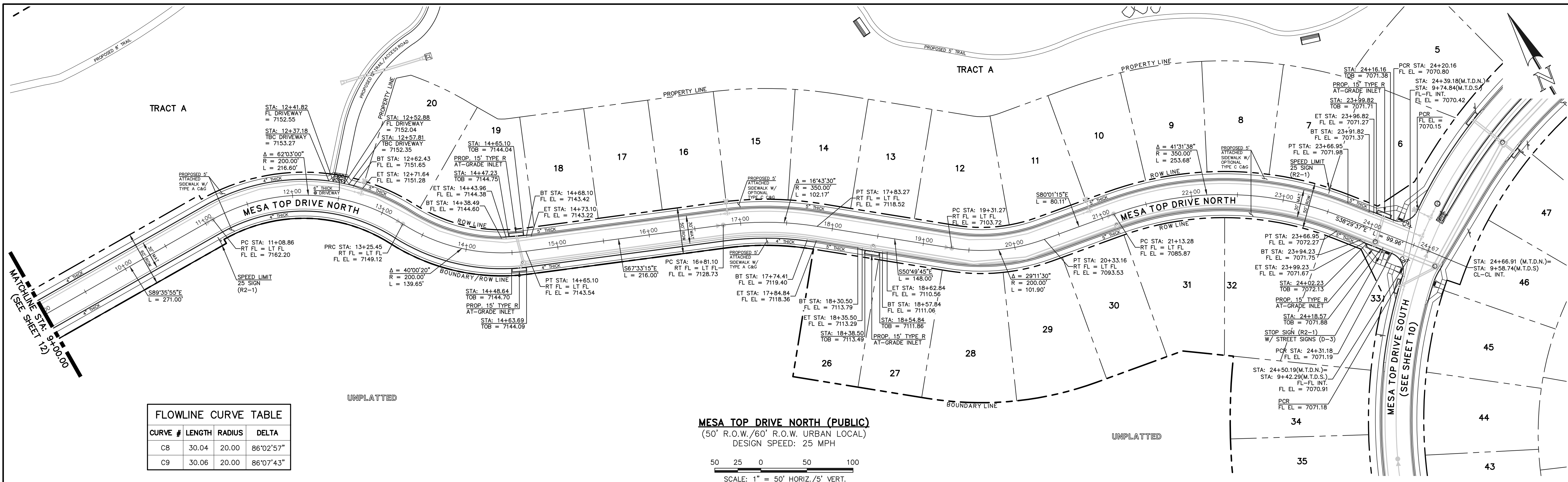
KYLE R. CAMPBELL, COLORADO P.E. #29794



FOREST LAKES FILING NO. 6
 PUBLIC STREET IMPROVEMENT PLAN

MESA TOP DRIVE NORTH STA: 1+00 - STA: 9+00

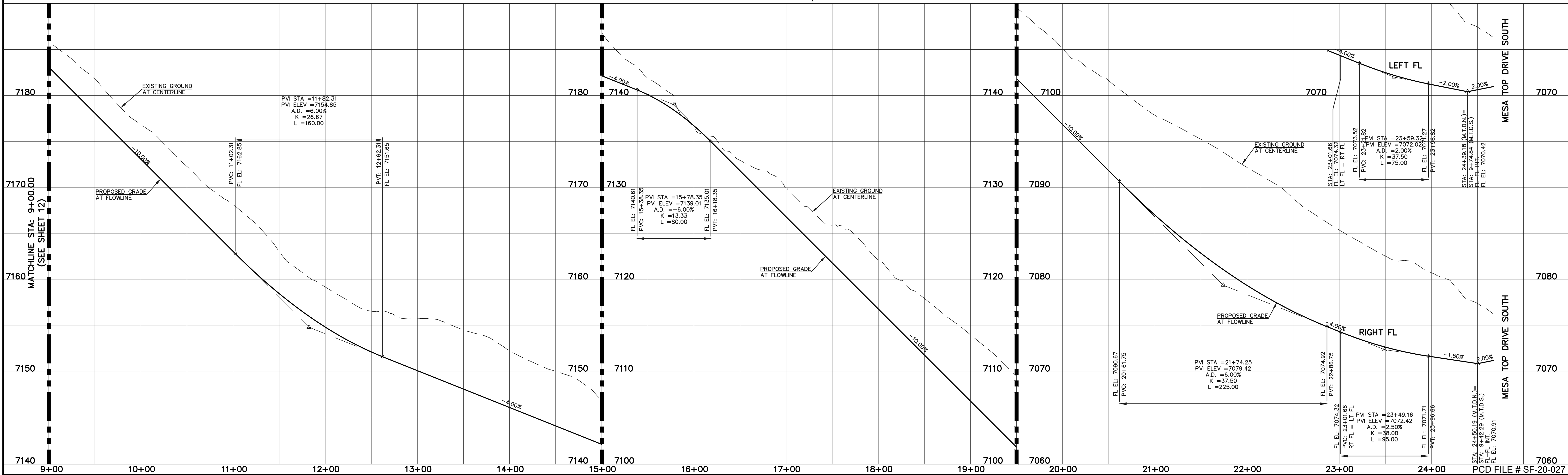
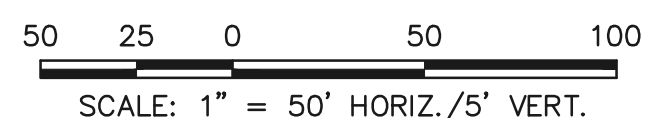
DESIGNED BY	MAL	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET	12 OF 30
CHECKED BY	(V) 1" = 5'	JOB NO.	1175.60	



FLOWLINE CURVE TABLE

CURVE #	LENGTH	RADIUS	DELTA
C8	30.04	20.00	86°02'57"
C9	30.06	20.00	86°07'43"

MESA TOP DRIVE NORTH (PUBLIC)
 (50' R.O.W./60' R.O.W. URBAN LOCAL)
 DESIGN SPEED: 25 MPH



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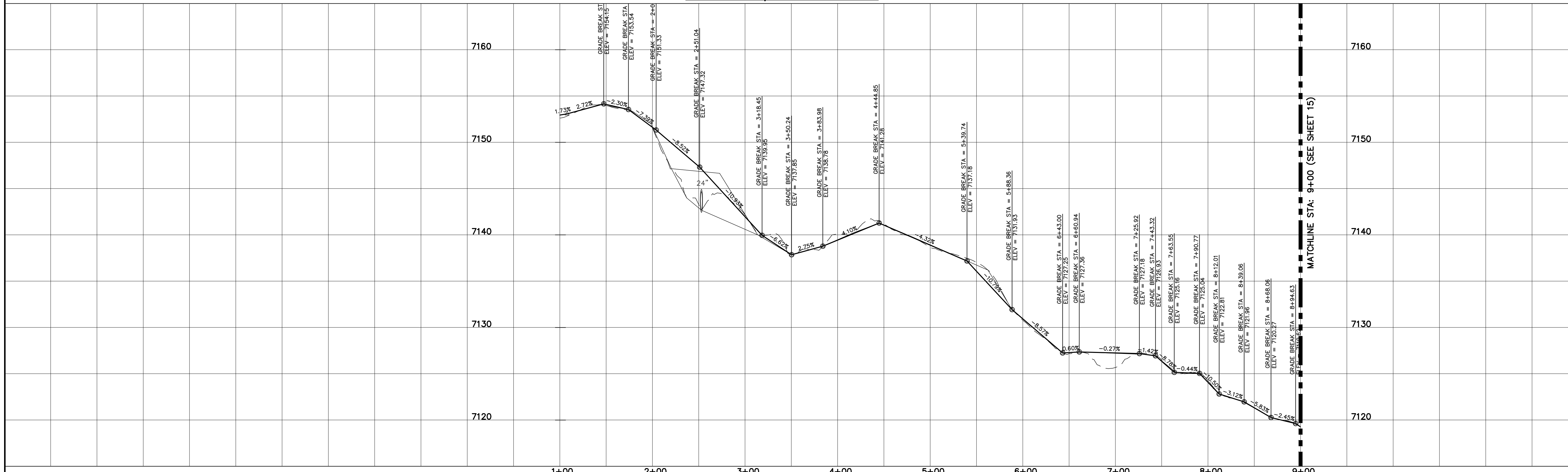
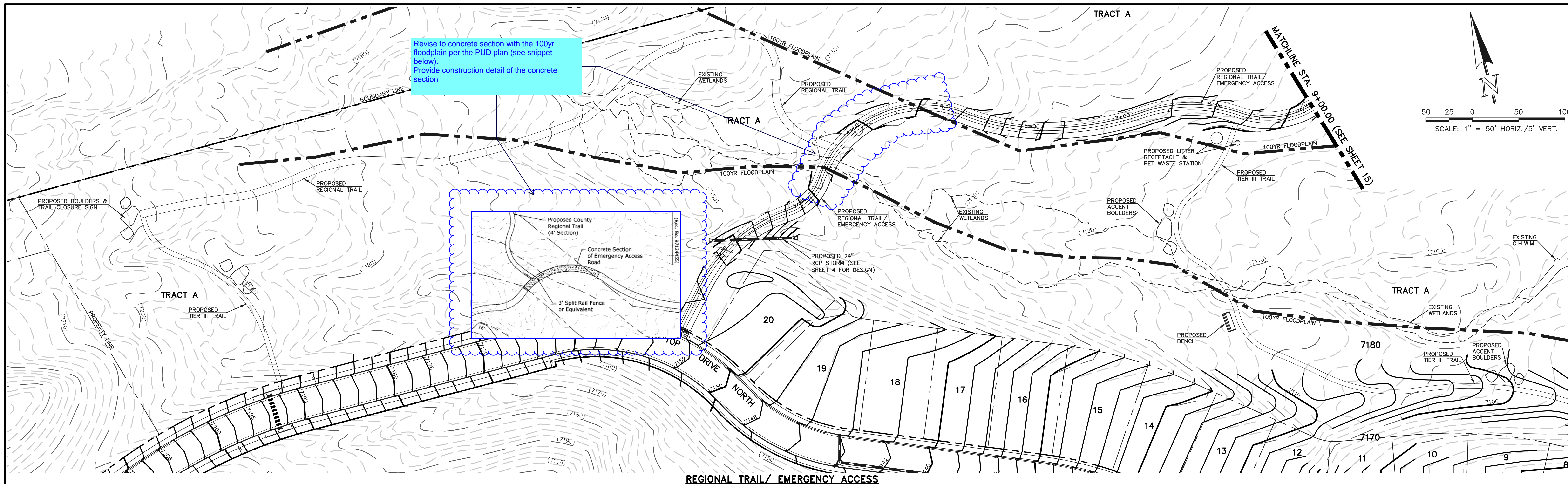
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE



FOREST LAKES FILING NO. 6
PUBLIC STREET IMPROVEMENT PLAN
 MESA TOP DRIVE NORTH
 STA. 9+00.00 - END

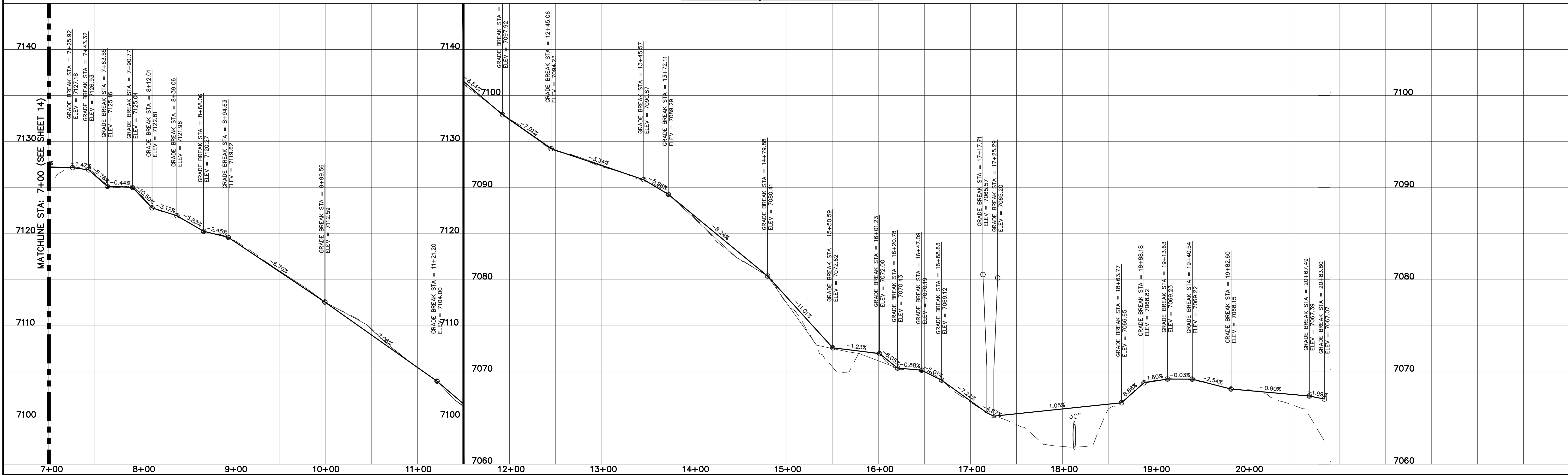
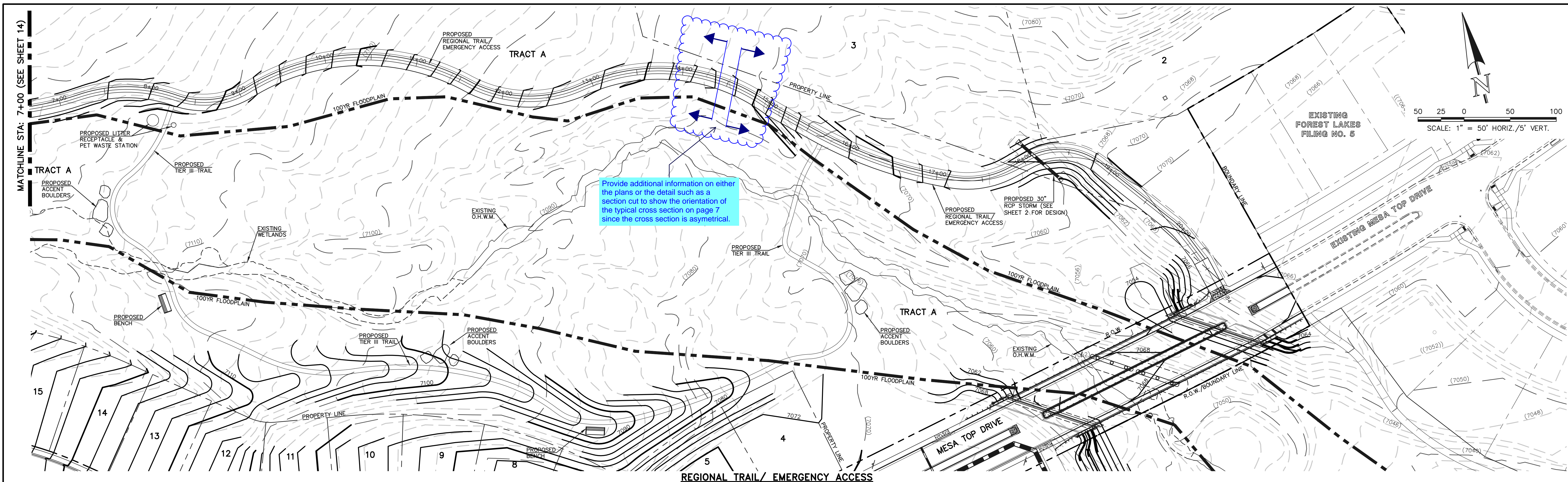
DESIGNED BY	MAL	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET	13 OF 30
CHECKED BY	(V) 1" = 5'	JOB NO.	1175.60	

N:\117560\DRAWINGS\CONSTRUCTION\STREETS\11-117560-5-05.dwg, 12/21/2020, 2:04:05 PM, 1:1



<p style="text-align: center;">48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811</p> <p style="text-align: center;">UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</p> <p style="font-size: small;">THE LOCATIONS OF EXISTING 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 UNDERGROUND UTILITIES.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="font-size: x-small;">NO.</th> <th style="font-size: x-small;">REVISION</th> <th style="font-size: x-small;">DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	REVISION	DATE										<p>REVIEW:</p> <p style="font-size: x-small;">PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <p style="font-size: x-small;">KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE</p>	<div style="text-align: center;"> <p>CLASSIC CONSULTING</p> </div> <p style="font-size: x-small;">619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903 (719)785-0790 (719)785-0799(Fax)</p>	<p style="font-size: x-small;">FOREST LAKES FILING NO. 6 REGIONAL TRAIL & EMERGENCY ACCESS PLAN & PROFILE STA: 1+00-9+00</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr> <td>DESIGNED BY</td> <td>MAL</td> <td>SCALE</td> <td>DATE</td> </tr> <tr> <td>DRAWN BY</td> <td>MES</td> <td>(H) 1" = 50'</td> <td>08/04/2020</td> </tr> <tr> <td>CHECKED BY</td> <td>(V) 1" = 5'</td> <td>SHEET 14 OF 30</td> <td>JOB NO. 1175.60</td> </tr> </table>	DESIGNED BY	MAL	SCALE	DATE	DRAWN BY	MES	(H) 1" = 50'	08/04/2020	CHECKED BY	(V) 1" = 5'	SHEET 14 OF 30	JOB NO. 1175.60
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N:\117560\DRAWINGS\CONSTRUCTIVE\TRAJECTS\14-117560-5-06.dwg, 12/21/2020, 2:22:21 PM, 1:1



MATCHLINE STA: 7+00 (SEE SHEET 14)

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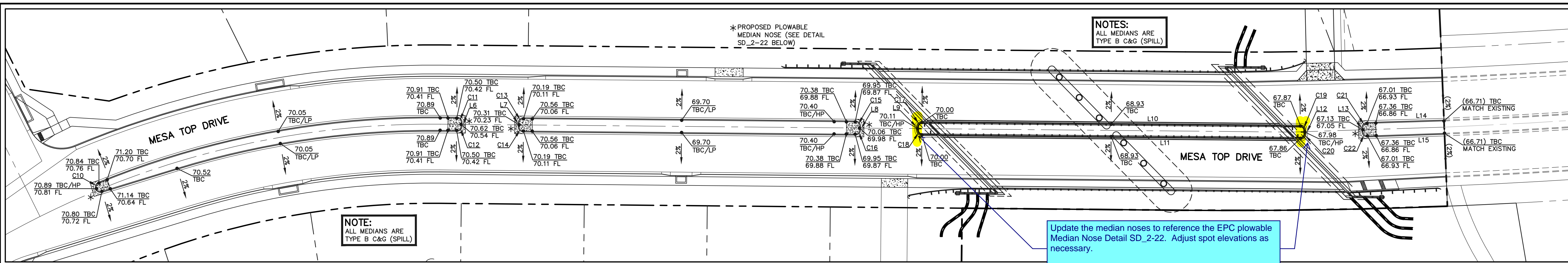
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FOREST LAKES FILING NO. 6
REGIONAL TRAIL & EMERGENCY ACCESS
PLAN & PROFILE
STA: 7+00.00-END

DESIGNED BY	MAL	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET	15 OF 30
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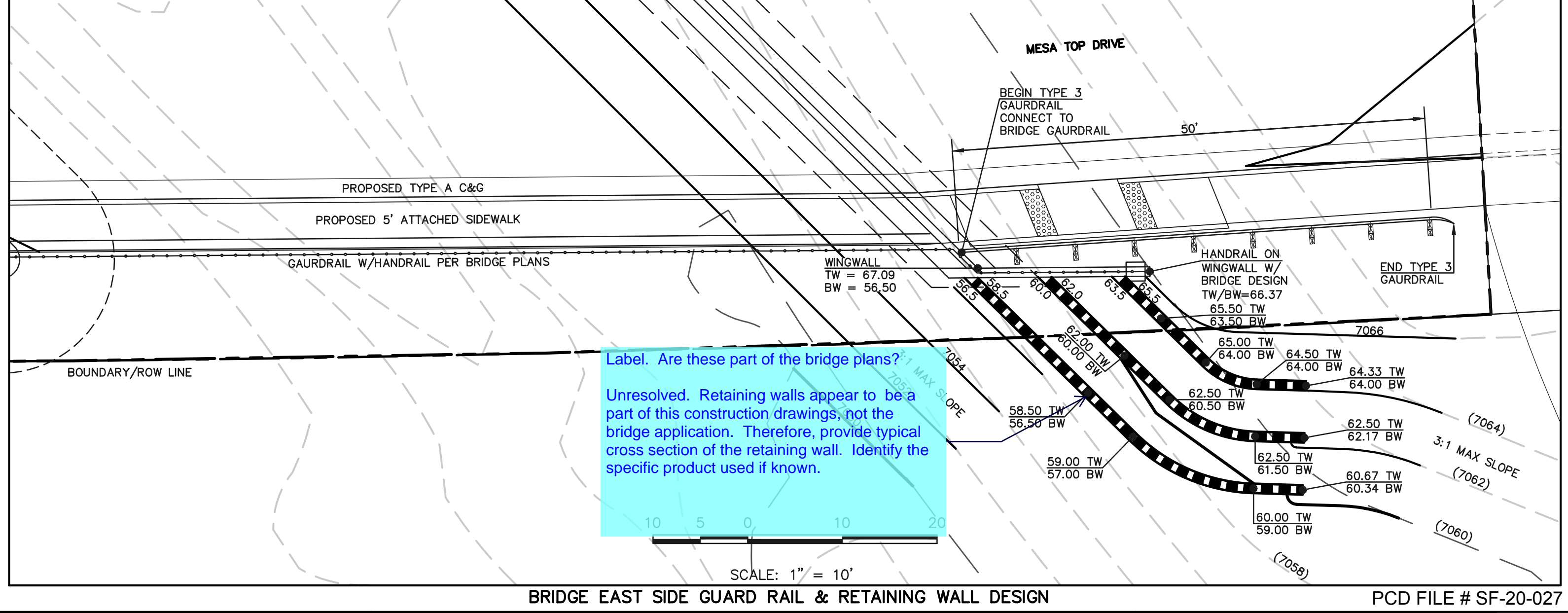
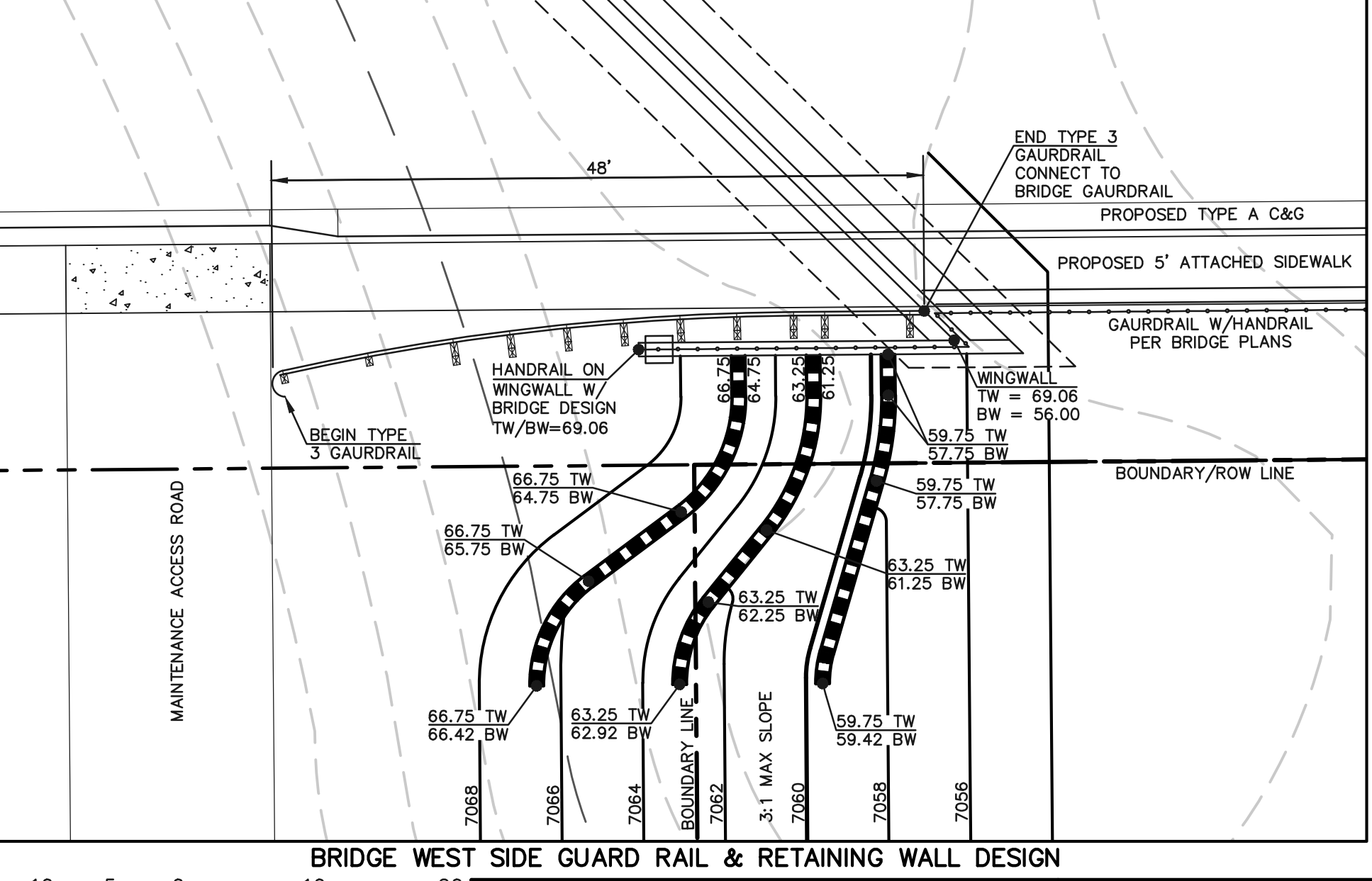
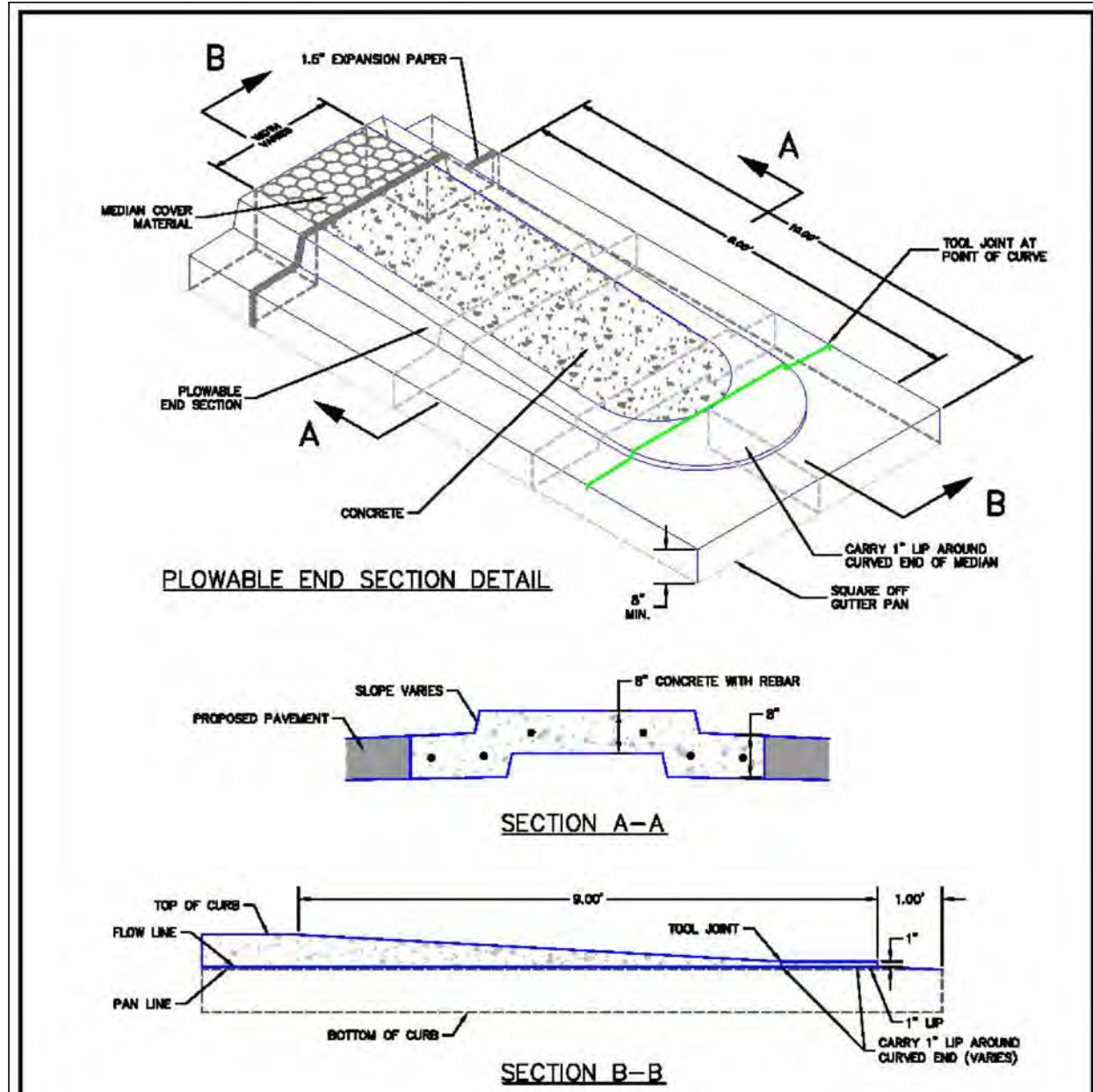
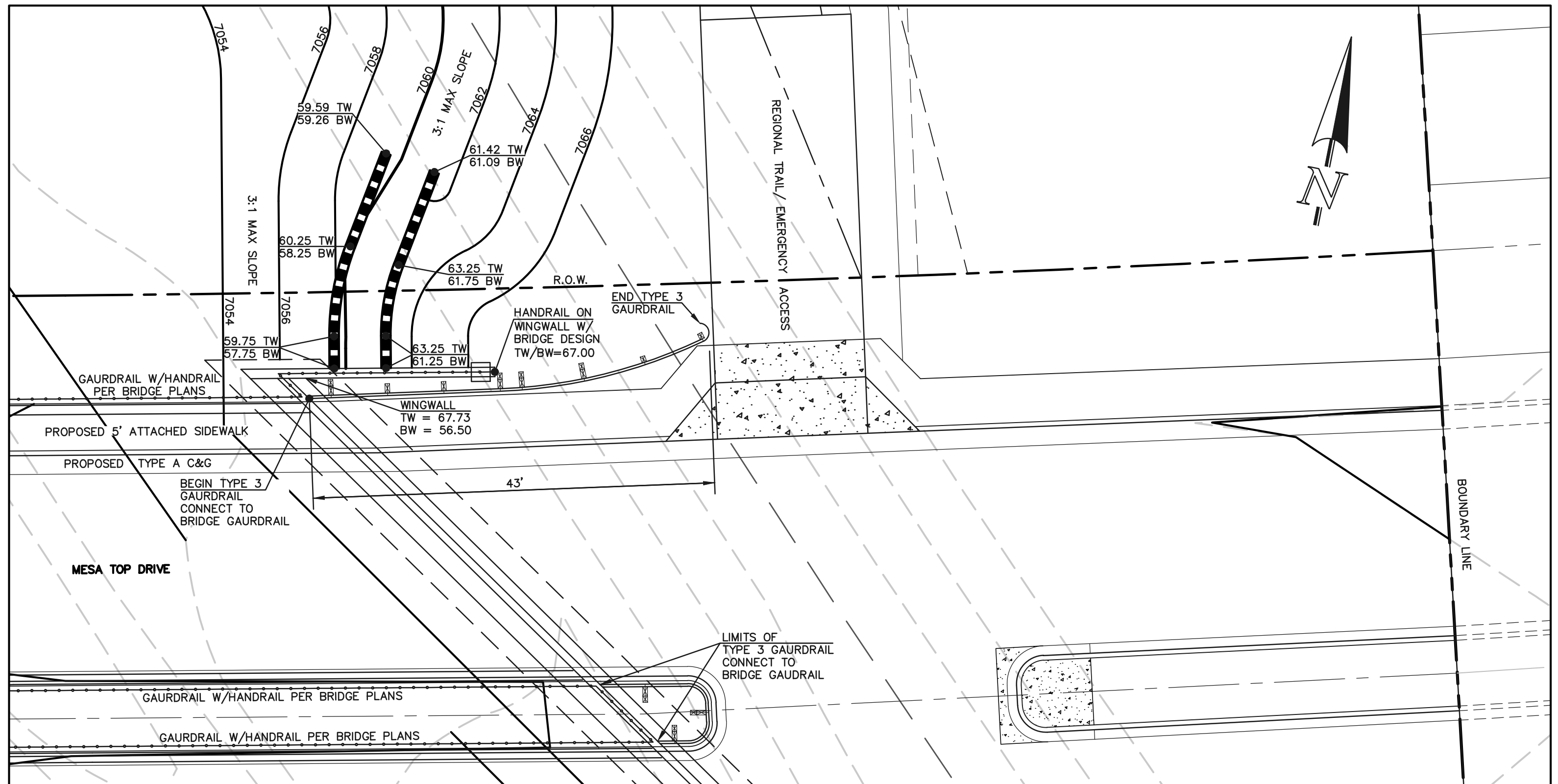
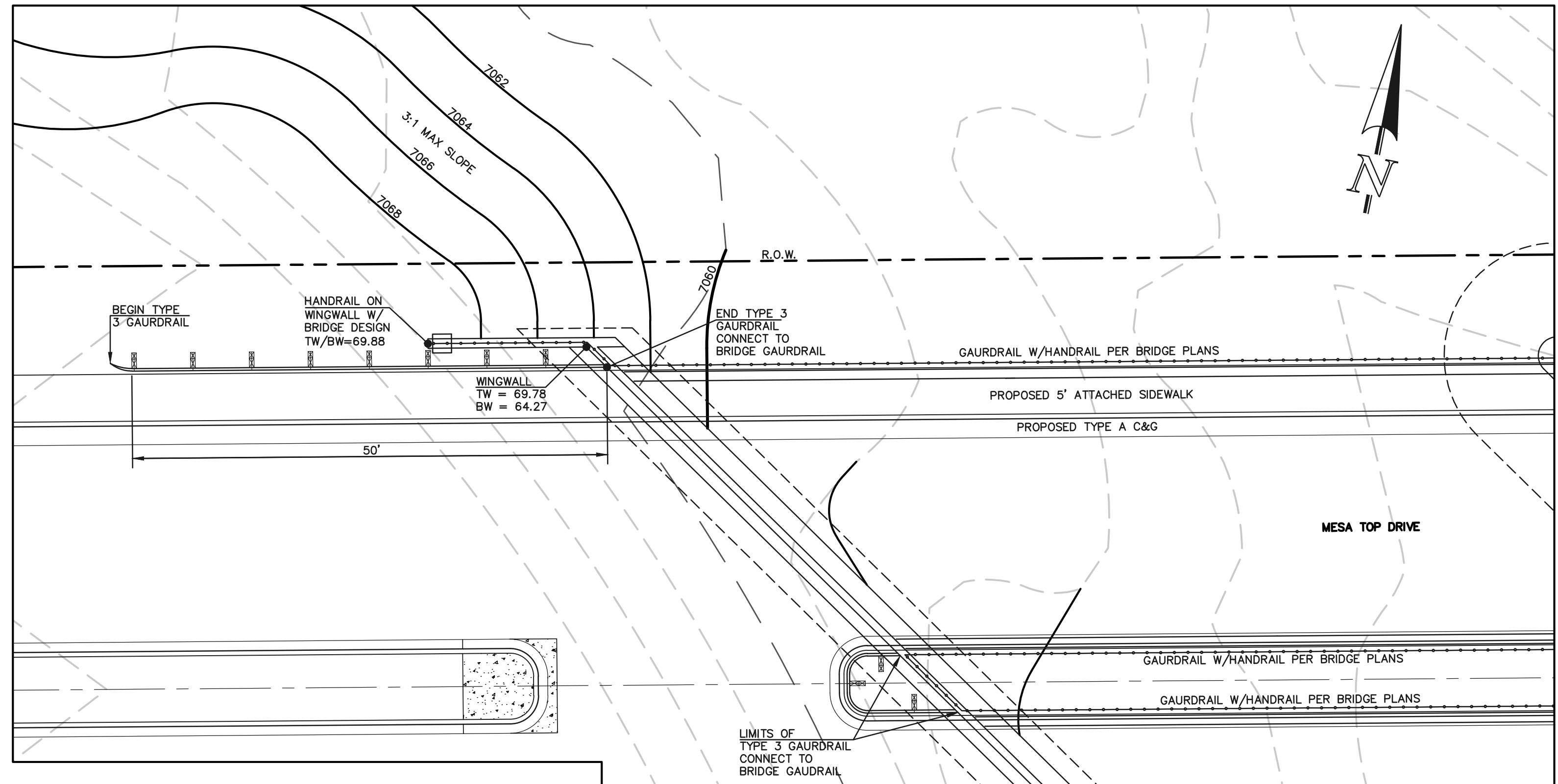


LINE #	LENGTH	DIRECTION
L6	2.00	N11°27'50"W
L7	2.00	S11°27'50"E
L8	2.00	N11°27'50"W
L9	2.00	S11°27'50"E
L10	215.39	S78°32'10"W
L11	215.48	N78°32'10"E
L12	2.00	S14°00'50"E
L13	2.17	S13°59'00"E
L14	43.81	S76°14'10"W
L15	43.86	N76°01'00"E

CURVE #	LENGTH	RADIUS	DELTA
C10	9.16	3.00	174°52'43"
C11	4.71	3.00	90°00'00"
C12	4.71	3.00	90°00'00"
C13	4.71	3.00	90°00'00"
C14	4.71	3.00	90°00'00"
C15	4.71	3.00	90°00'00"
C16	4.71	3.00	90°00'00"
C17	4.71	3.00	90°00'00"
C18	4.71	3.00	90°00'00"
C19	4.58	3.00	87°27'07"
C20	4.85	3.00	92°32'53"
C21	4.72	3.00	90°13'04"
C22	4.71	3.00	90°00'00"

MESA TOP DRIVE MEDIAN DESIGN
30 15 0 30 60

SCALE: 1" = 30'



Label. Are these part of the bridge plans?
Unresolved. Retaining walls appear to be a part of this construction drawings, not the bridge application. Therefore, provide typical cross section of the retaining wall. Identify the specific product used if known.

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

1/12/16

Plowable Median Nose Detail Standard Drawing

André P. Brackin

1/12/16

SD_2-22

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS

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NO.	REVISION	DATE	REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL, COLORADO P.E. #29794

CLASSIC CONSULTING

FOREST LAKES FILING NO. 6
PUBLIC STREET IMPROVEMENT PLAN
MEDIAN DESIGN, GUARD RAIL AND RETAINING WALL DESIGN

DESIGNED BY MAL SCALE DATE 08/04/2020

DRAWN BY MES (H) 1"=VARIES SHEET 16 OF 30

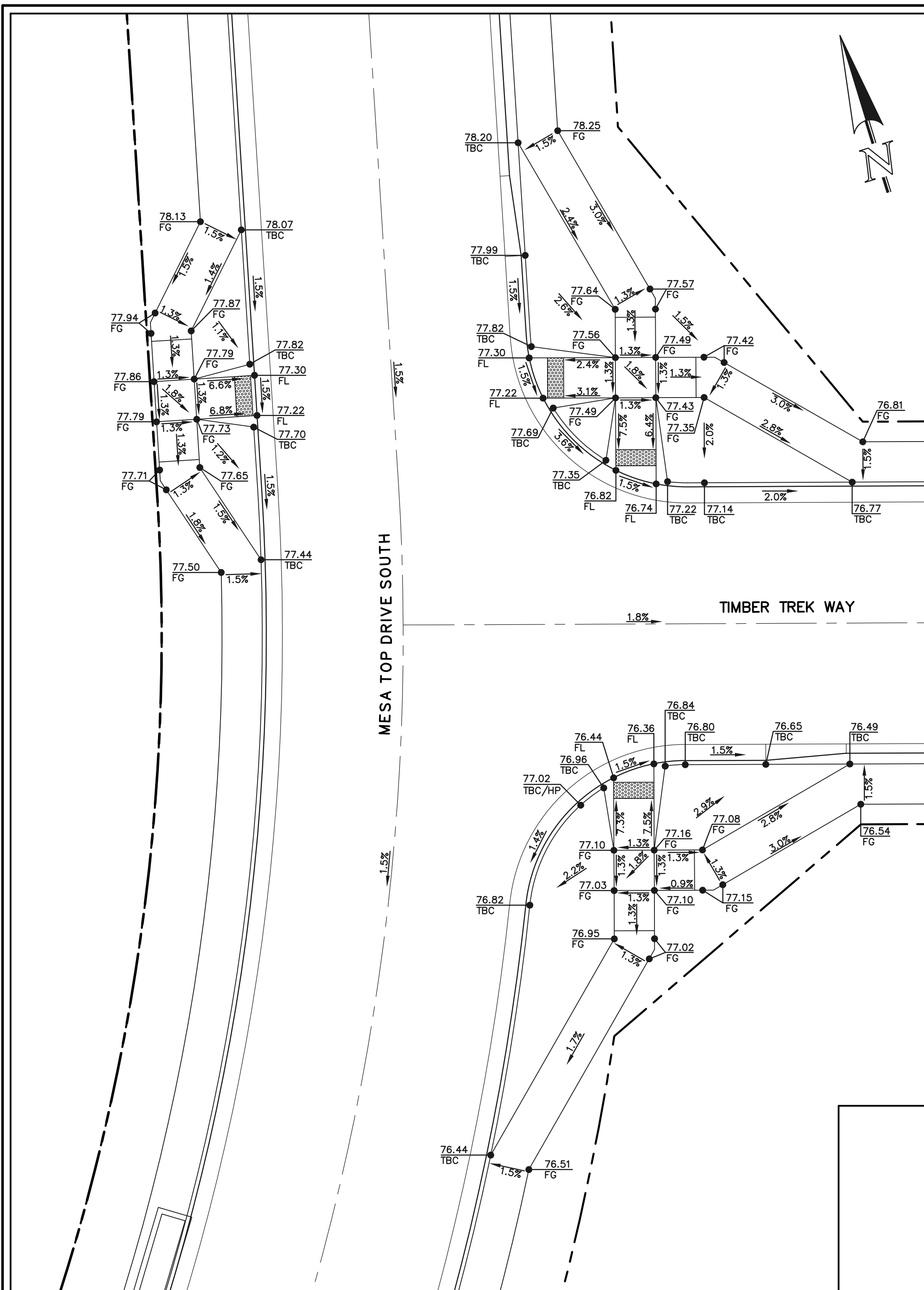
CHECKED BY (V) 1"= N/A JOB NO. 1175.60

CLASSIC CONSULTING

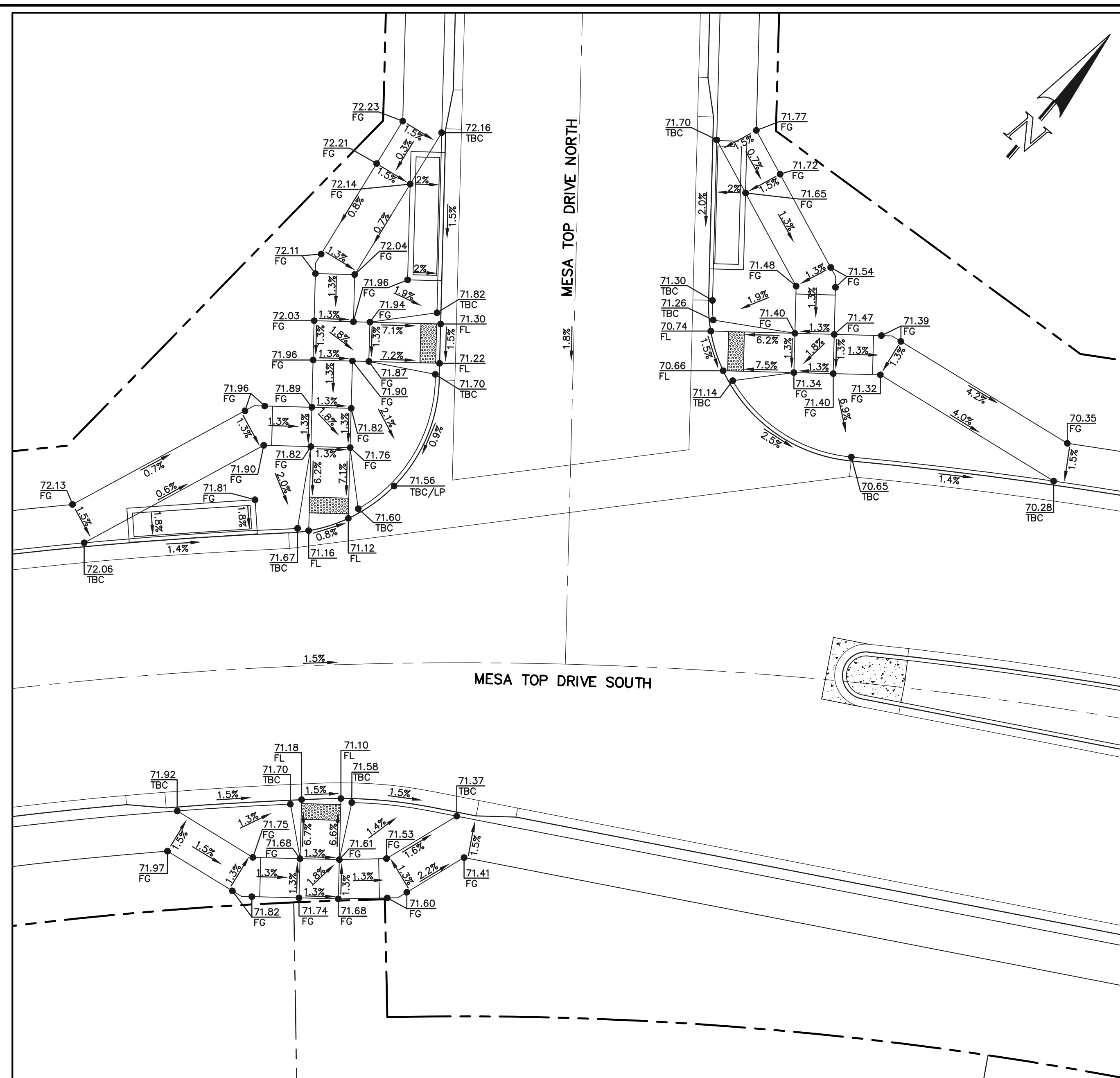
618 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903

(719)785-0790
(719)785-0799(Fax)

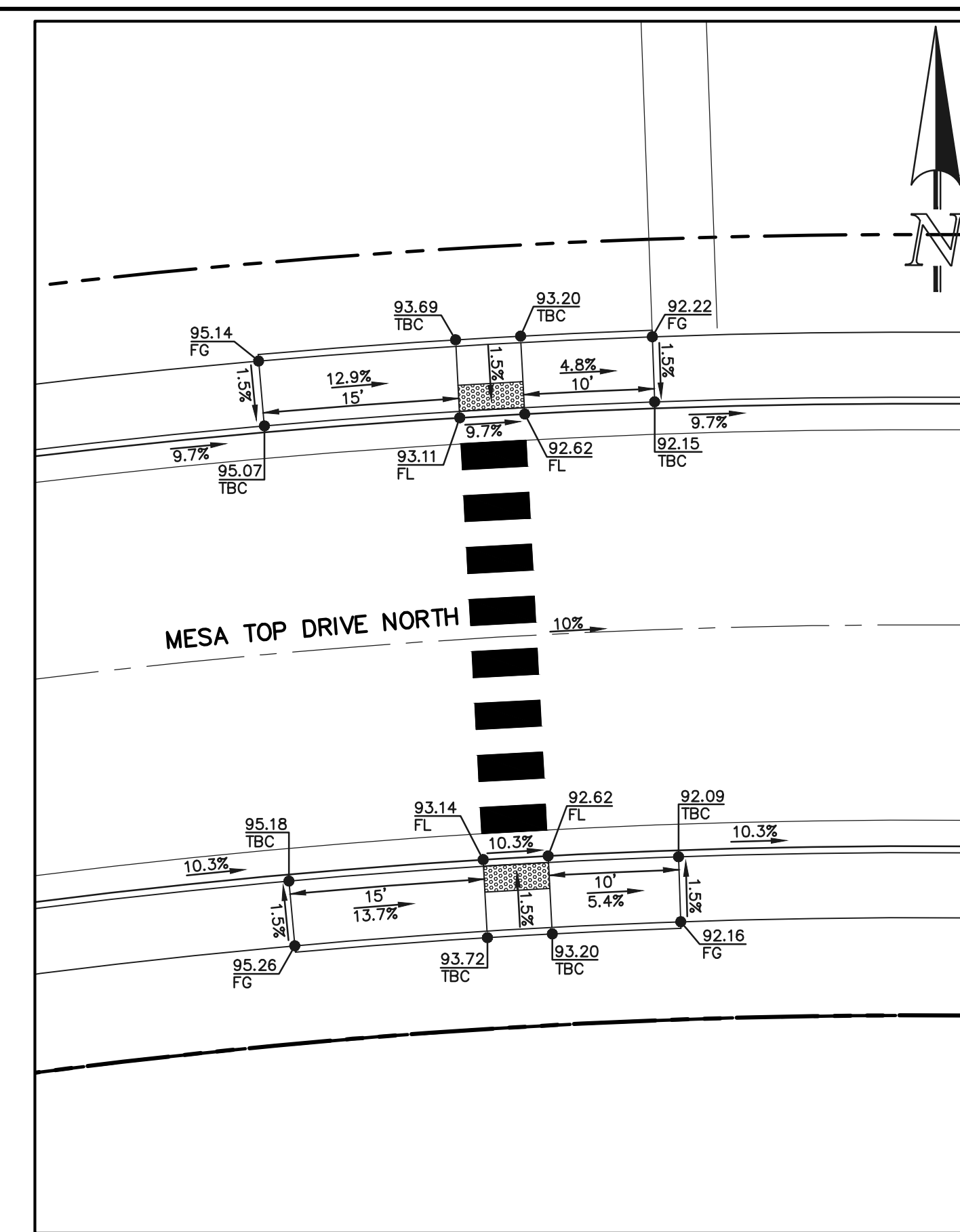
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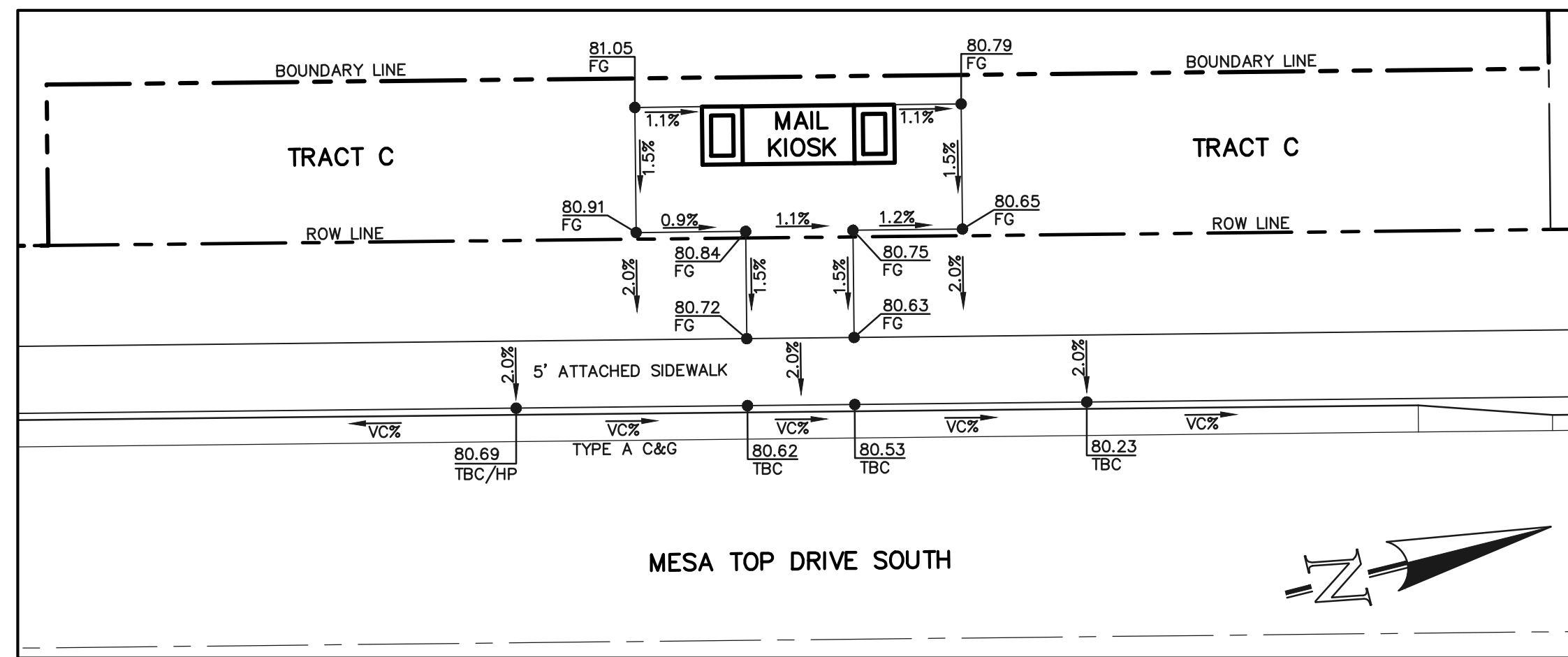
PEDESTRIAN RAMP SECTION 'A'
10 5 0 10 20
SCALE: 1" = 10'



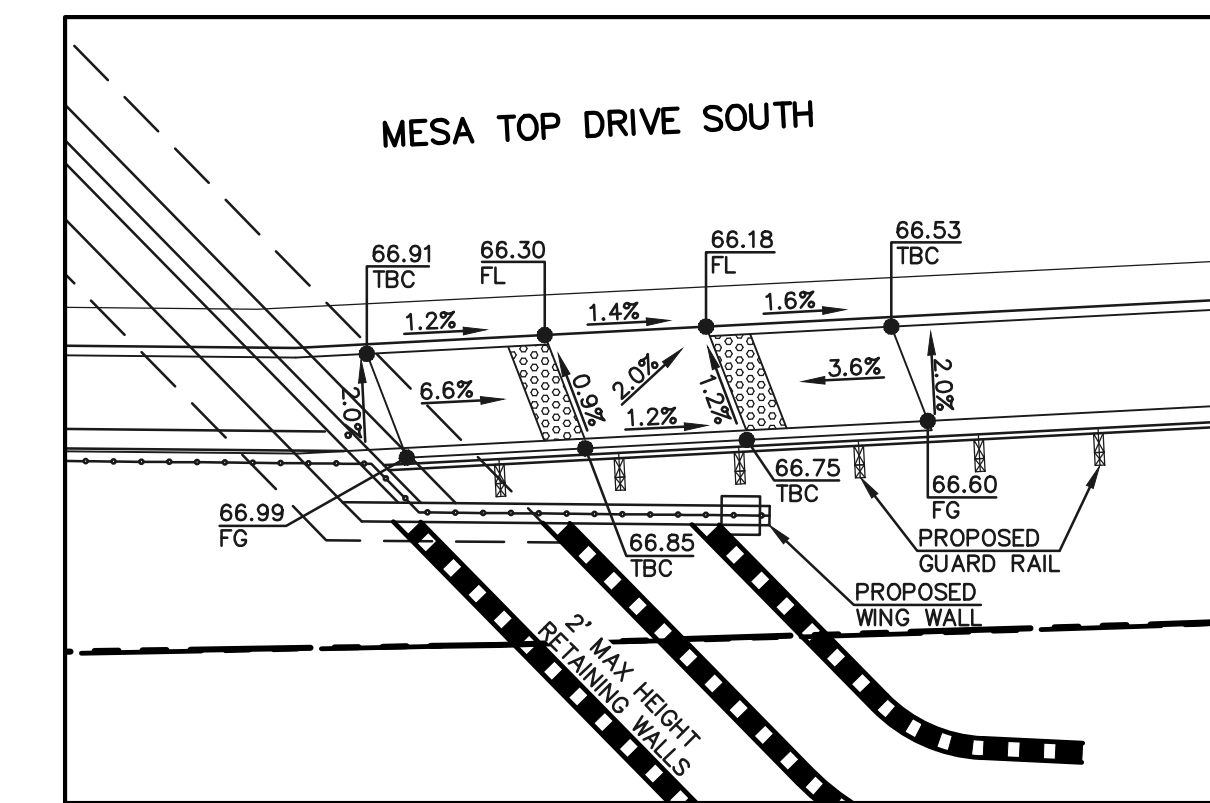
PEDESTRIAN RAMP SECTION 'B'
10 5 0 10 20
SCALE: 1" = 10'



PEDESTRIAN RAMP SECTION 'C'
10 5 0 10 20
SCALE: 1" = 10'



MAIL KIOSK DESIGN
10 5 0 10 20
SCALE: 1" = 10'



PEDESTRIAN RAMP SECTION 'D'
10 5 0 10 20
SCALE: 1" = 10'

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NO.	REVISION	DATE

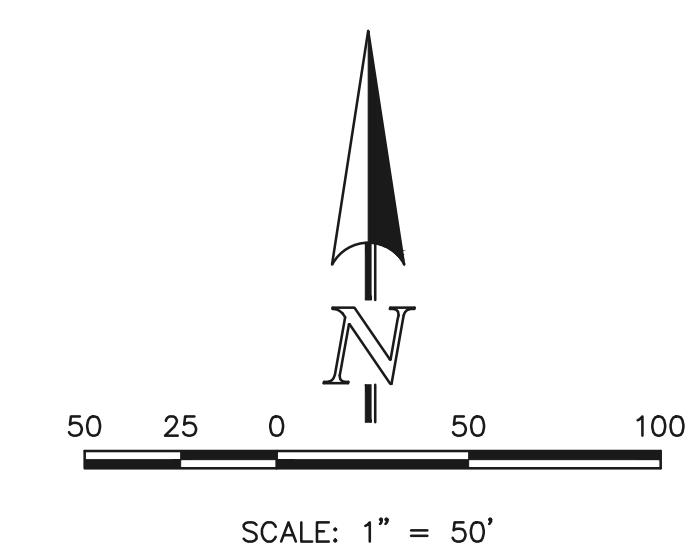
REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE



FOREST LAKES FILING NO. 6
PUBLIC STREET IMPROVEMENT PLAN
PEDESTRIAN RAMP & MAIL KIOSK DESIGN
DESIGNED BY MAL SCALE DATE 08/04/2020
DRAWN BY MES (H) 1"=VARIES SHEET 17 OF 30
CHECKED BY (V) 1"= N/A JOB NO. 1175.60

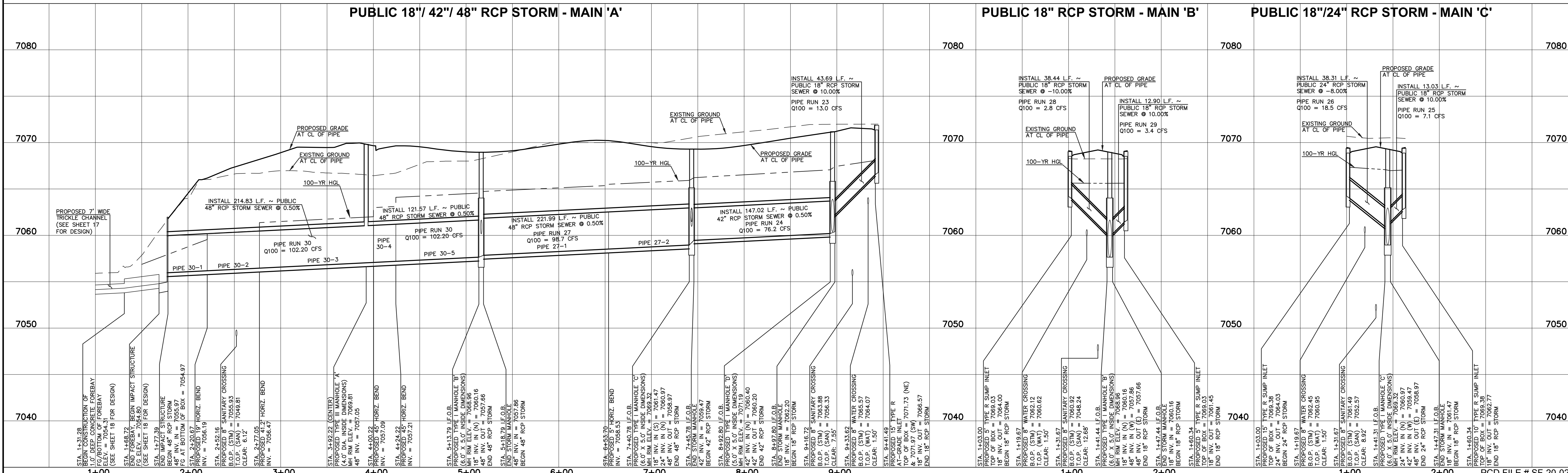
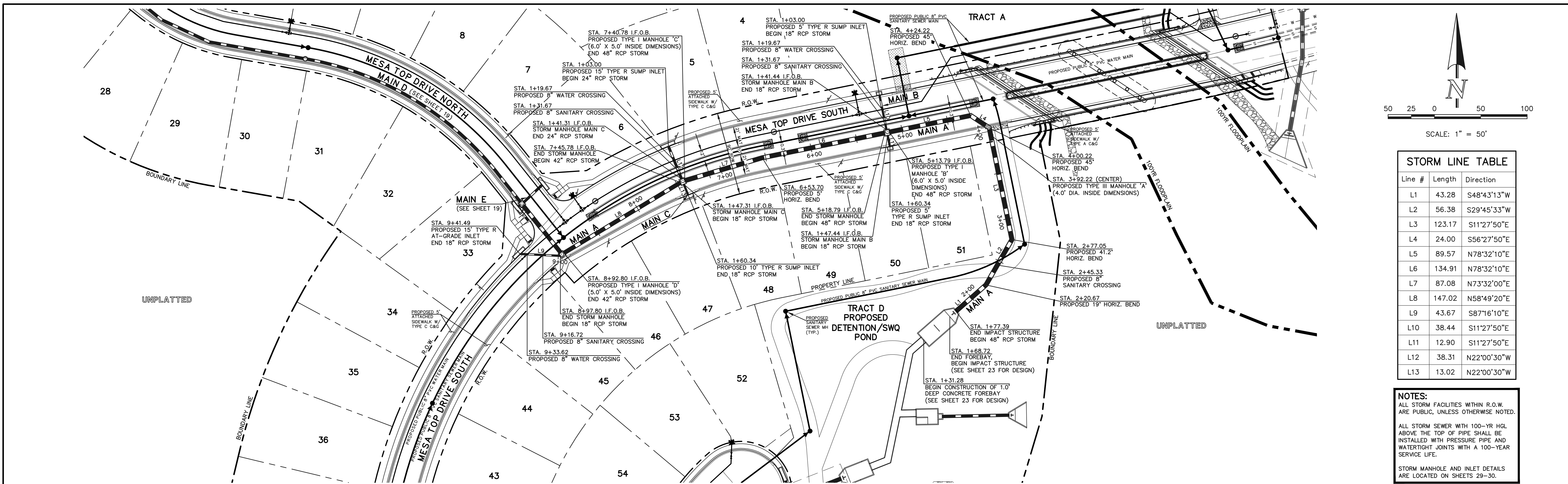
PCD FILE # SF-20-027

N:\117560\DRAWINGS\CONSTRUCTIVE\DWGS\STREETS\11-117560-5-09.dwg, 12/21/2020, 2:30:13 PM, 1:1



Line #	Length	Direction
L1	43.28	S48°43'13"W
L2	56.38	S29°45'33"W
L3	123.17	S11°27'50"E
L4	24.00	S56°27'50"E
L5	89.57	N78°32'10"E
L6	134.91	N78°32'10"E
L7	87.08	N73°32'00"E
L8	147.02	N58°49'20"E
L9	43.67	S87°16'10"E
L10	38.44	S11°27'50"E
L11	12.90	S11°27'50"E
L12	38.31	N22°00'30"W
L13	13.02	N22°00'30"W

NOTES:
 ALL STORM FACILITIES WITHIN R.O.W. ARE PUBLIC, UNLESS OTHERWISE NOTED.
 ALL STORM SEWER WITH 100-YR HGL ABOVE THE TOP OF PIPE SHALL BE INSTALLED WITH PRESSURE PIPE AND WATERTIGHT JOINTS WITH A 100-YEAR SERVICE LIFE.
 STORM MANHOLE AND INLET DETAILS ARE LOCATED ON SHEETS 29-30.



LEGEND		48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811		NO. REVISION		DATE		REVIEW:		FOREST LAKES FILING NO. 6	
	PROPOSED FIRE HYDRANT		EXISTING FIRE HYDRANT							CONSTRUCTION PLANS	
	PROPOSED WATER MAIN		EXISTING WATER MAIN							PUBLIC STORM SEWER PLAN	
	PROPOSED SANITARY SEWER MAIN		EXISTING SANITARY SEWER MAIN							MAIN 'A' / MAIN 'B' / MAIN 'C'	
	PROPOSED STORM SEWER		EXISTING STORM SEWER							DESIGNED BY	MAL
	PROPOSED STORM INLET		EXISTING STORM INLET							DRAWN BY	MES
	ROW/BOUNDARY LINE		EXISTING GAS MAIN							CHECKED BY	MES
			EXISTING ELECTRIC							SCALE	(H) 1" = 50'
										DATE	08/04/2020
										SHEET	18 OF 30
										JOB NO.	1175.60

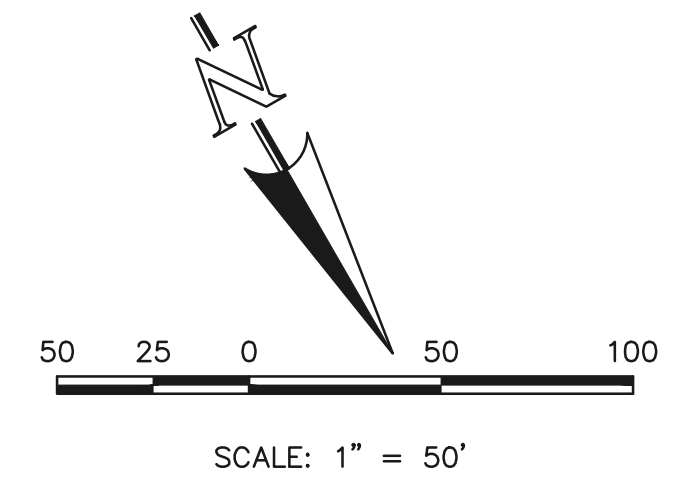
CLASSIC CONSULTING

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL, COLORADO P.E. #29794

618 N. Cascade Avenue, Suite 200
 Colorado Springs, Colorado 80903
 (719)785-0790
 (719)785-0799(fax)

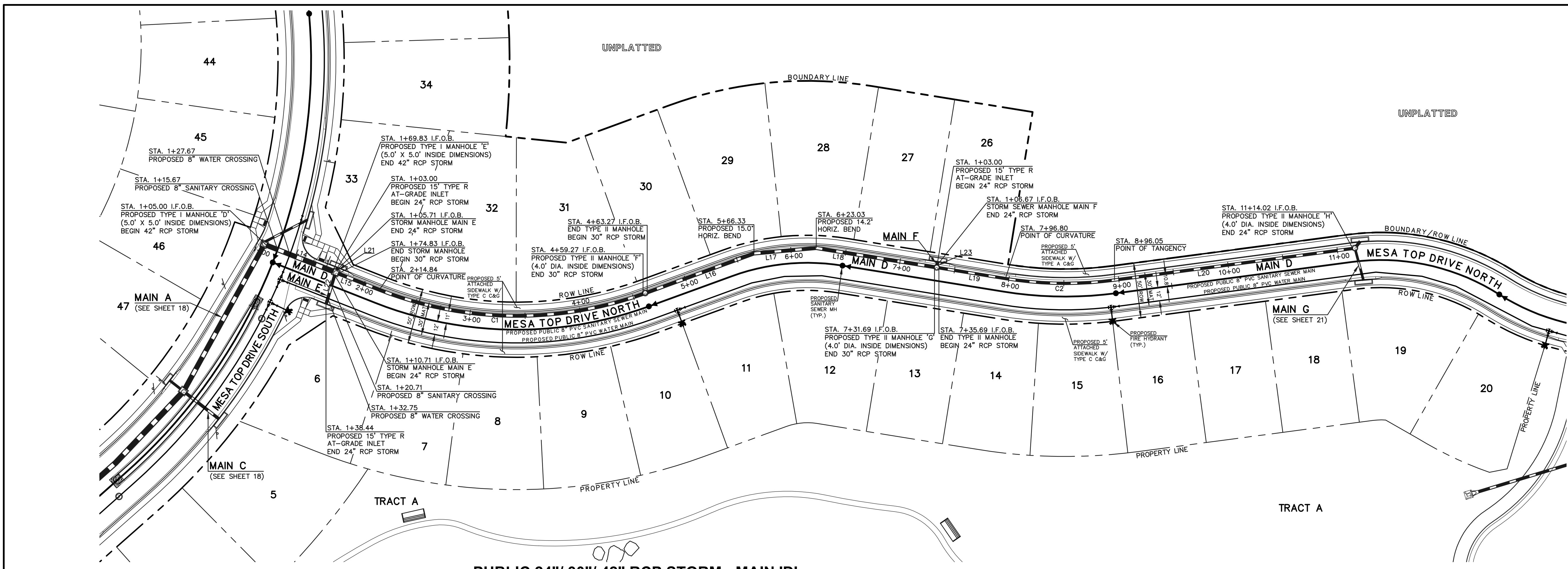
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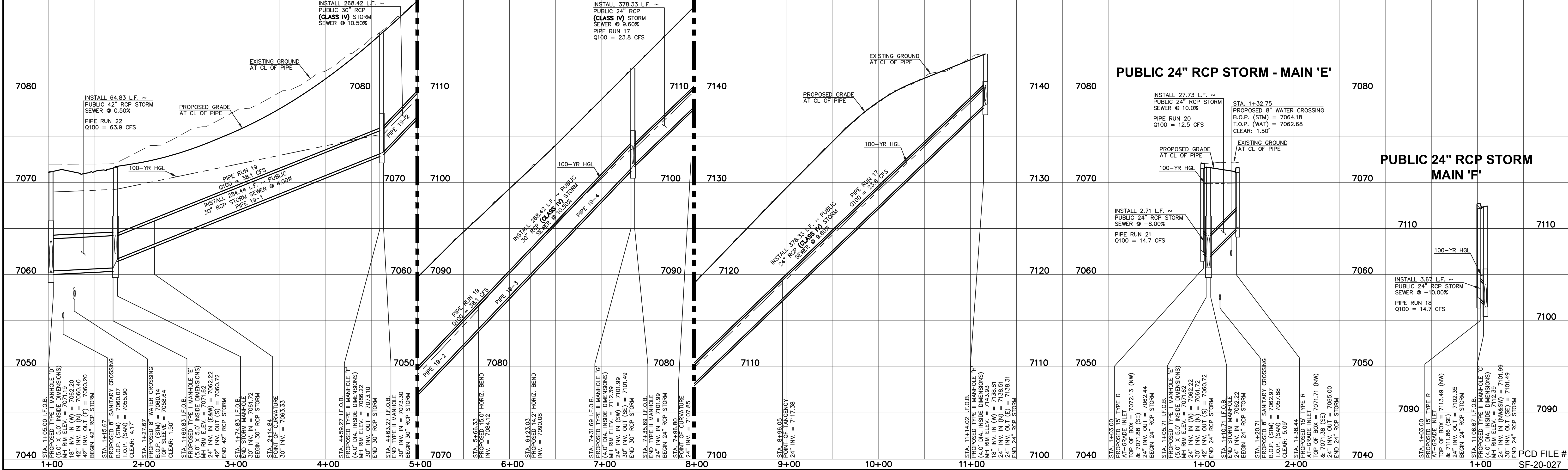
Line #	Length	Direction
L14	64.83	N38°29'40"W
L15	40.01	N38°29'40"W
L16	103.06	N80°01'10"W
L17	56.70	N65°01'10"W
L18	108.66	N50°49'40"W
L19	61.11	N50°49'40"W
L20	217.97	N67°33'10"W
L21	2.71	S51°30'20"W
L22	27.73	S46°31'40"W
L23	3.67	N39°10'20"E

Curve #	Length	Radius	Delta
C1	244.43	340.00	41°11'20"
C2	99.25	340.00	16°43'30"

NOTES:
 ALL STORM FACILITIES WITHIN R.O.W. ARE PUBLIC, UNLESS OTHERWISE NOTED.
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 STORM MANHOLE AND INLET DETAILS ARE LOCATED ON SHEETS 29-30.



PUBLIC 24" / 30" / 42" RCP STORM - MAIN 'D'



PUBLIC 24" RCP STORM - MAIN 'E'

PUBLIC 24" RCP STORM MAIN 'F'

LEGEND

	PROPOSED FIRE HYDRANT		EXISTING FIRE HYDRANT
	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED SANITARY SEWER MAIN		EXISTING SANITARY SEWER MAIN
	PROPOSED STORM SEWER		EXISTING STORM SEWER
	PROPOSED STORM INLET		EXISTING STORM INLET
	ROW/BOUNDARY LINE		EXISTING GAS MAIN
			EXISTING ELECTRIC

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NO.	REVISION	DATE

REVIEW:

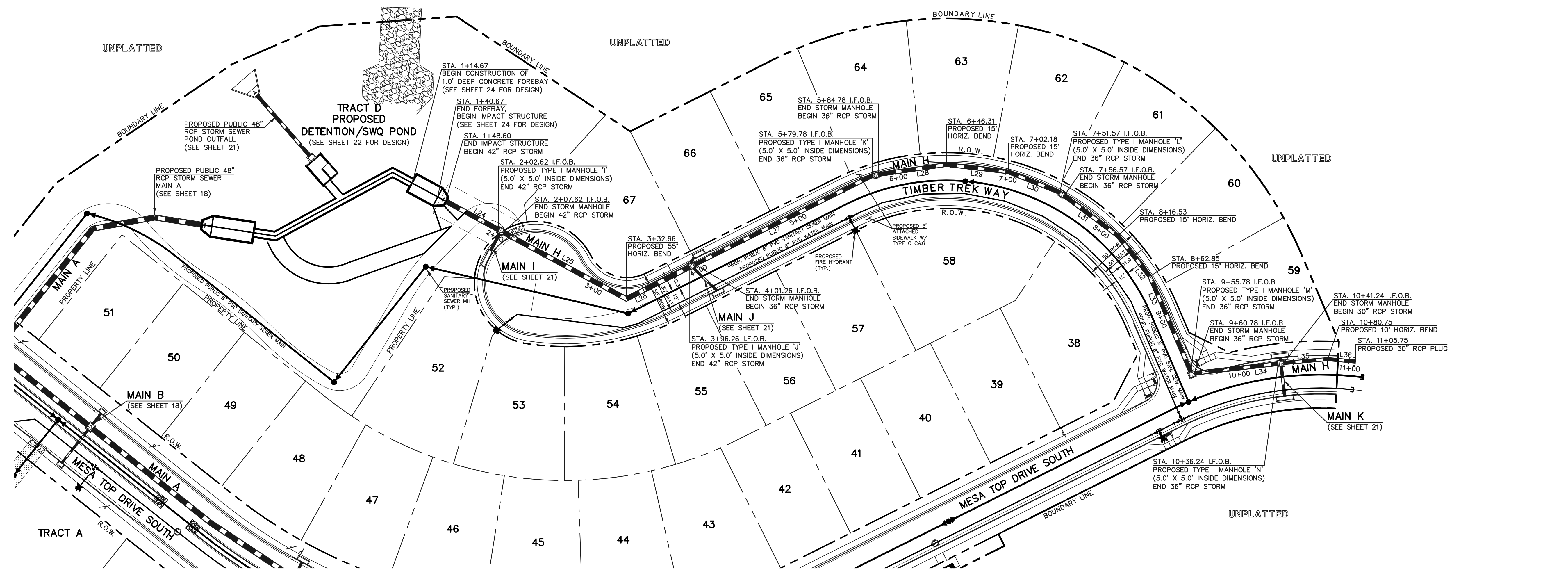
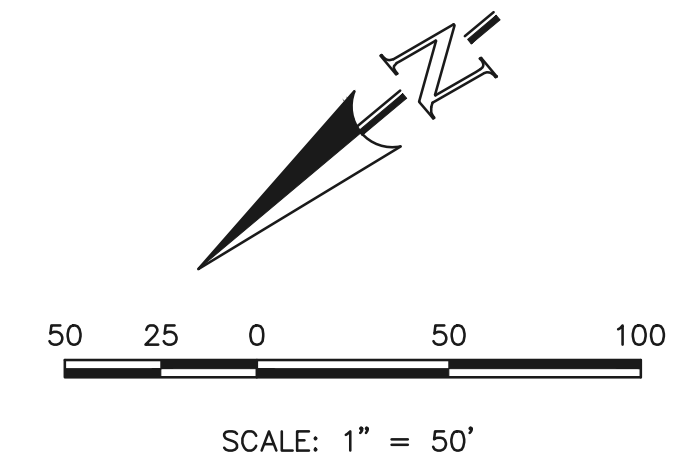
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE

FOREST LAKES FILING NO. 6
 CONSTRUCTION PLANS
 PUBLIC STORM SEWER PLAN
 MAIN 'D' / MAIN 'E' / MAIN 'F'

DESIGNED BY	MAL	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET	19 OF 30
CHECKED BY	(V) 1" = 5'	JOB NO.	1175.60	

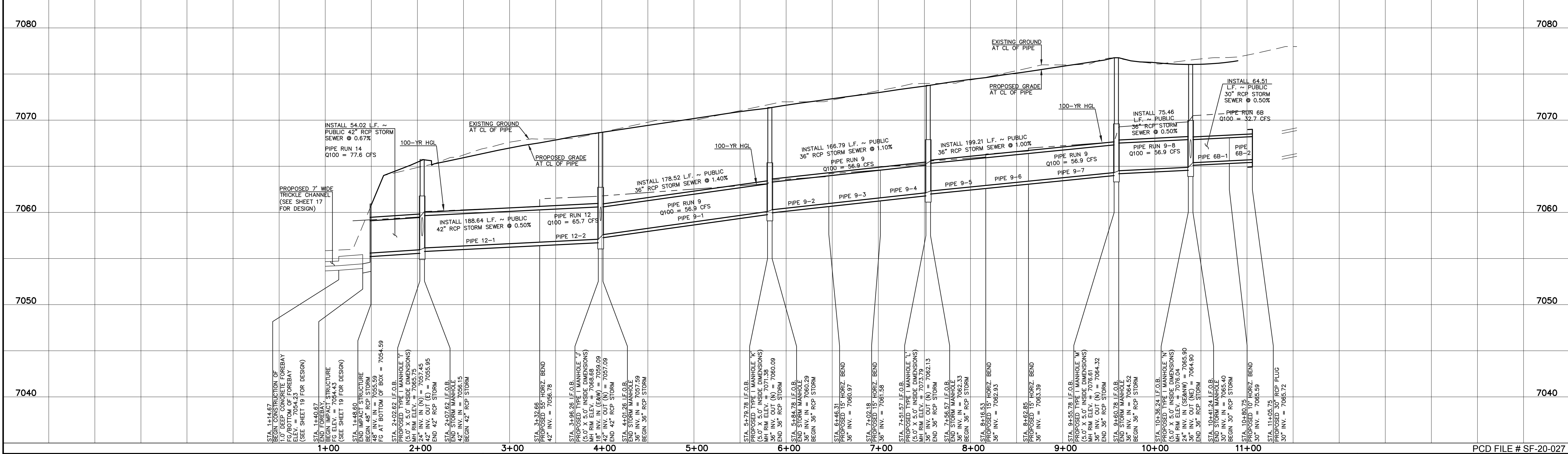
N:\17560\DRAWINGS\CONSTRUCTION\STORM\19-117560-STM-02.dwg, 12/21/2020, 3:05:16 PM, 1:1



Line #	Length	Direction
L24	54.02	N68°23'20"E
L25	125.04	N68°23'20"E
L26	63.60	N13°23'20"E
L27	178.51	N13°23'20"E
L28	61.53	N31°45'20"E
L29	55.87	N46°45'20"E
L30	49.39	N61°45'20"E
L31	59.96	N76°45'20"E
L32	46.32	S88°14'40"E
L33	92.93	S73°14'40"E
L34	75.46	N33°26'30"E
L35	39.51	N35°00'20"E
L36	25.00	N45°00'20"E

NOTES:
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 STORM MANHOLE AND INLET DETAILS ARE LOCATED ON SHEETS 29-30.

PUBLIC 30"/ 36"/ 42" RCP STORM - MAIN 'H'



LEGEND

	PROPOSED FIRE HYDRANT		EXISTING FIRE HYDRANT
	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED SANITARY SEWER MAIN		EXISTING SANITARY SEWER MAIN
	PROPOSED STORM SEWER		EXISTING STORM SEWER
	PROPOSED STORM INLET		EXISTING STORM INLET
	ROW/BOUNDARY LINE		EXISTING GAS MAIN
			EXISTING ELECTRIC

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NO. REVISION	DATE

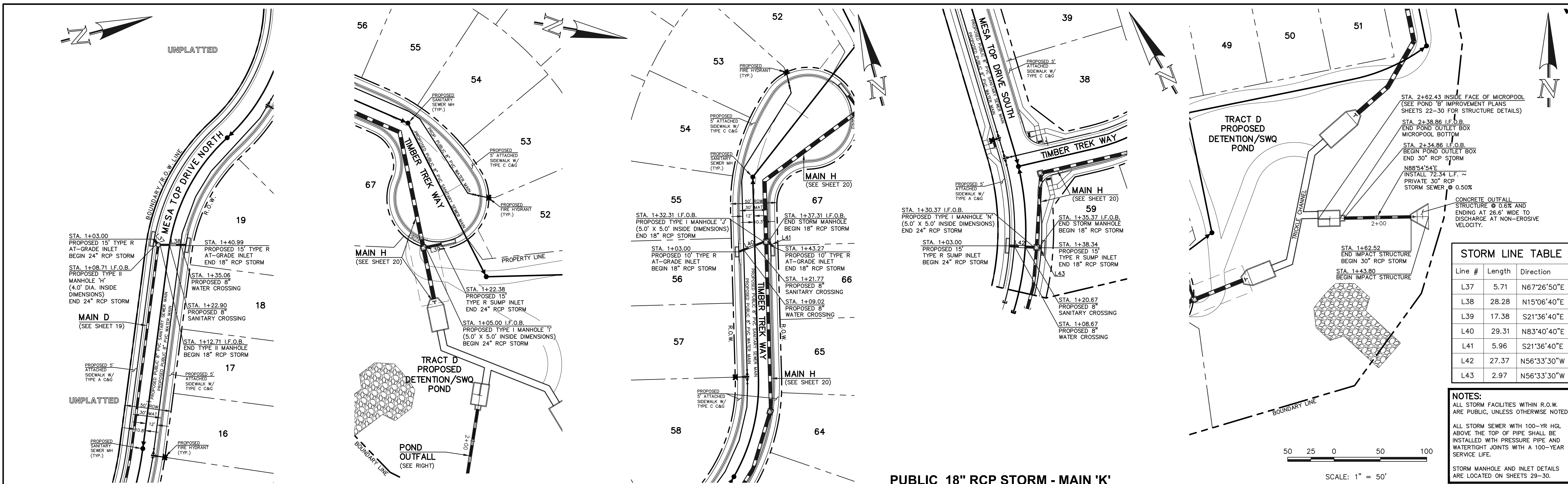
REVIEW:
 PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE

FOREST LAKES FILING NO. 6
CONSTRUCTION PLANS
PUBLIC STORM SEWER PLAN
MAIN 'H'

DESIGNED BY	MAL	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET	20 OF 30
CHECKED BY		(V) 1" = 5'	JOB NO.	1175-60

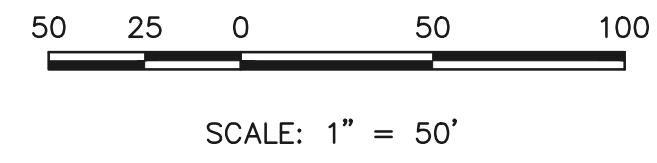
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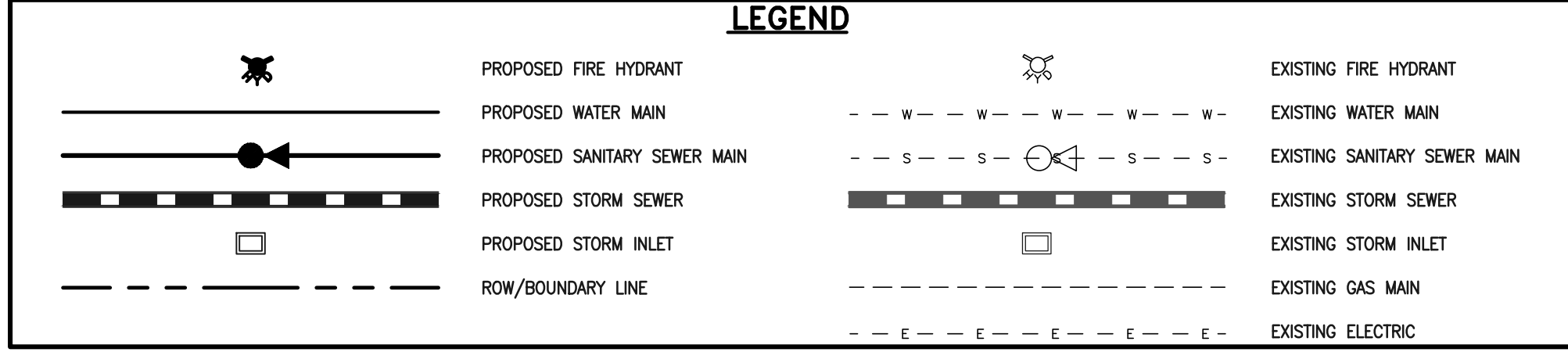
STORM LINE TABLE

Line #	Length	Direction
L37	5.71	N67°26'50"E
L38	28.28	N15°06'40"E
L39	17.38	S21°36'40"E
L40	29.31	N83°40'40"E
L41	5.96	S21°36'40"E
L42	27.37	N56°33'30"W
L43	2.97	N56°33'30"W

NOTES:
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 STORM MANHOLE AND INLET DETAILS ARE LOCATED ON SHEETS 29-30.



PUBLIC 18"/24" RCP STORM - MAIN 'G'			PUBLIC 24" RCP STORM MAIN 'I'			PUBLIC 18" RCP STORM MAIN 'J'			PUBLIC 18" RCP STORM - MAIN 'K'			PRIVATE 30" RCP STORM - POND OUTFALL		
7050	7050	7050	7070	7070	7070	7080	7080	7080	7080	7080	7080	7080	7080	7080
7040	7040	7040	7060	7060	7060	7070	7070	7070	7070	7070	7070	7070	7070	7070
7030	7030	7030	7050	7050	7050	7060	7060	7060	7060	7060	7060	7060	7060	7060
7020	7020	7020	7040	7040	7040	7050	7050	7050	7050	7050	7050	7050	7050	7050
7010	7010	7010	7030	7030	7030	7040	7040	7040	7040	7040	7040	7040	7040	7040



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NO.	REVISION	DATE

REVIEW:

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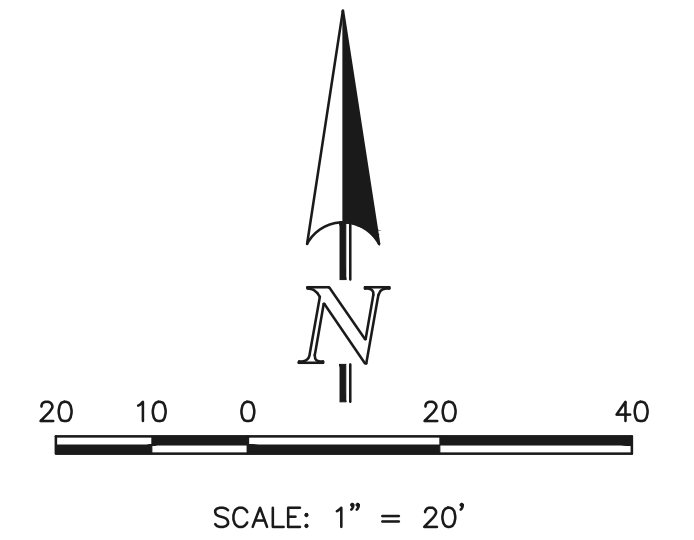
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE

FOREST LAKES FILING NO. 6
 CONSTRUCTION PLANS
 PUBLIC STORM SEWER PLAN
 MAIN 'G'/'I'/'J'/'K'/ POND OUTFALL

CLASSIC CONSULTING

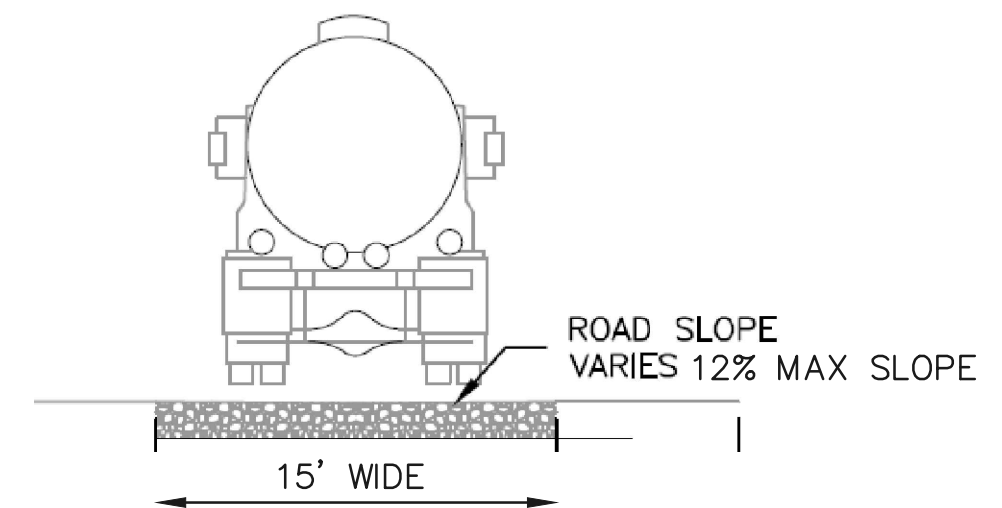
DESIGNED BY MAL SCALE DATE 08/04/2020
 DRAWN BY MES (H) 1" = 50' SHEET 21 OF 30
 CHECKED BY (V) 1" = 50' JOB NO. 1175.60

618 N. Cascade Avenue, Suite 200 (719)785-0790
 Colorado Springs, Colorado 80903 (719)785-0799(fax)

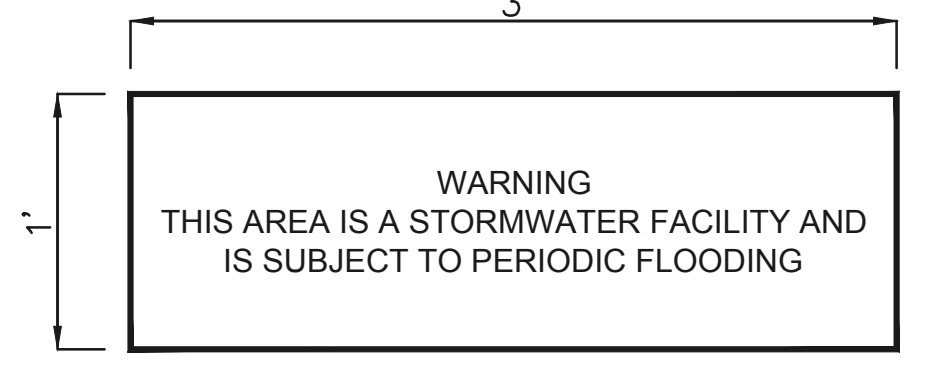


NOTE:
POND BOTTOM TO SLOPE TOWARD TRICKLE CHANNEL AT 4% FOR FIRST 25' AND 1% THEREAFTER TO EDGE OF POND BOTTOM

ACCESS ROAD

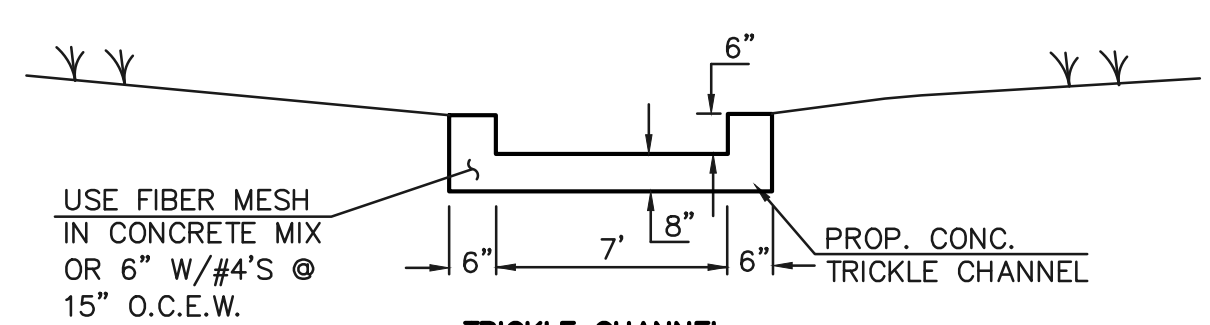


12" LAYER OF AGGREGATE
BASE COURSE OR CRUSHED GRAVEL OVER COMPACTED
SUBGRADE TO ELEVATION 7035.00 (EURV ELEVATION)
8" LAYER OF AGGREGATE BASE COURSE OR CRUSHED
GRAVEL ABOVE 7035.00.

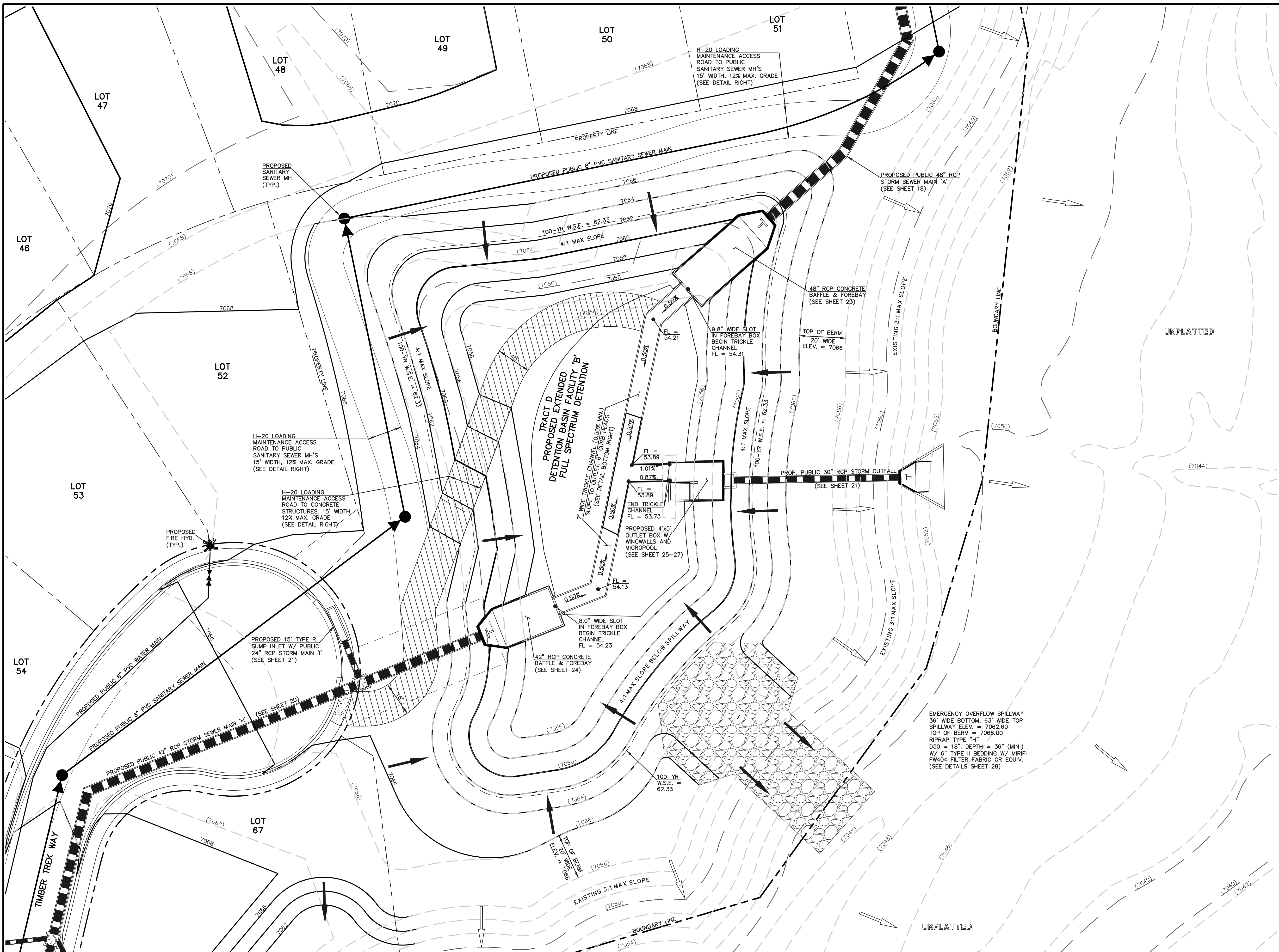


SIGN A

NOTES:
PROPOSED SIGN SHALL BE FABRICATED OF DURABLE MATERIALS, SUCH AS METAL OR PLASTIC, USING RED LETTERING ON A WHITE BACKGROUND



TRICKLE CHANNEL TYPICAL SECTION N.T.S. PCD FILE # SF-20-027



LEGEND

	PROPOSED FIRE HYDRANT		EXISTING FIRE HYDRANT
	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED SANITARY SEWER MAIN		EXISTING SANITARY SEWER MAIN
	PROPOSED STORM SEWER		EXISTING STORM SEWER
	PROPOSED STORM INLET		EXISTING STORM INLET
	ROW/BOUNDARY LINE		EXISTING GAS MAIN
			EXISTING ELECTRIC

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NO.	REVISION	DATE

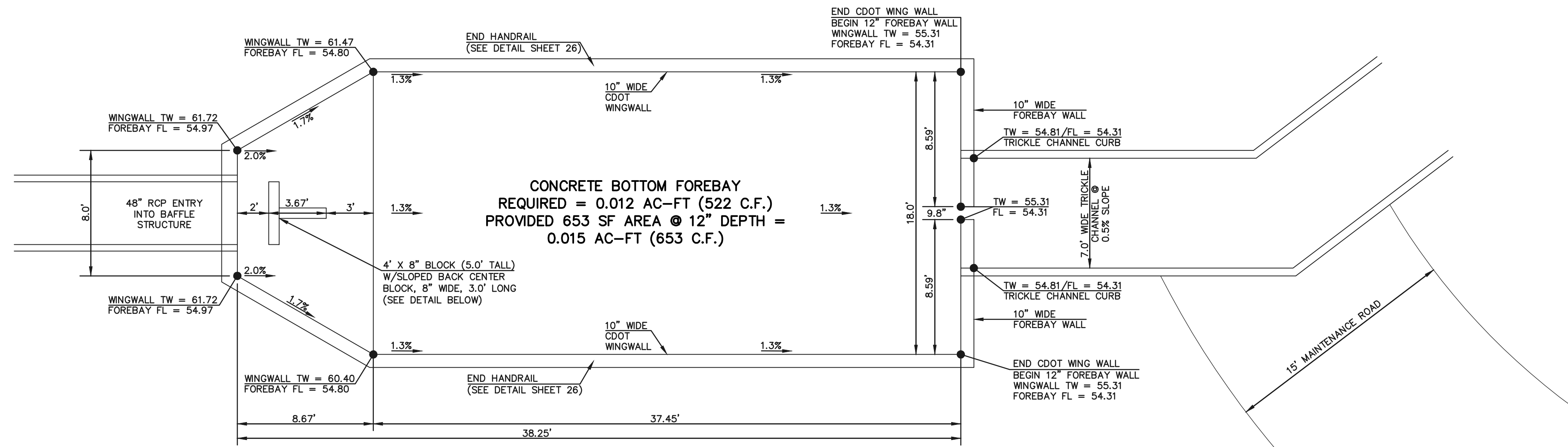
REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

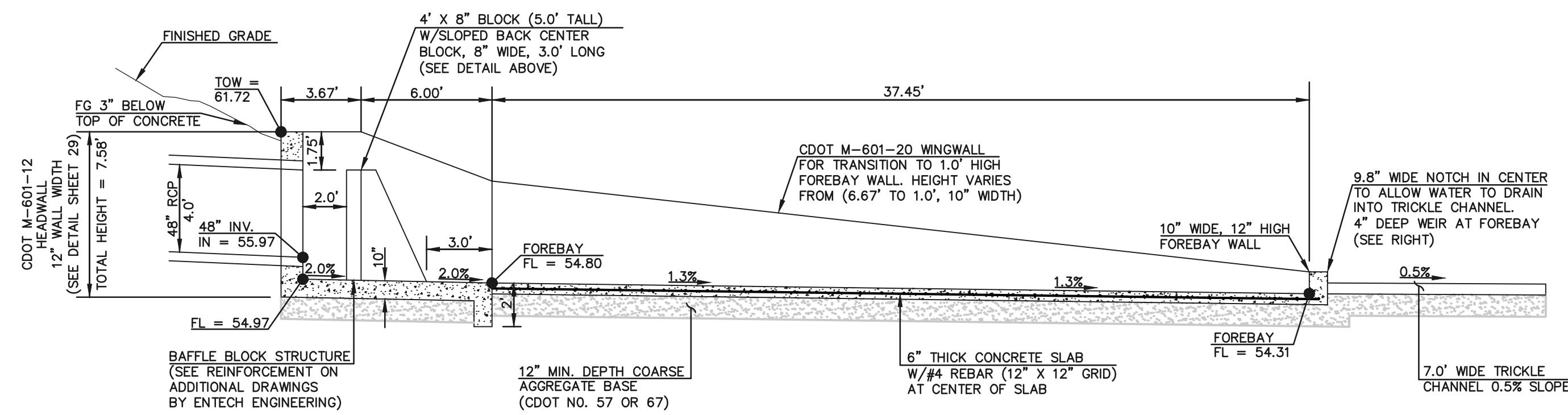
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE

FOREST LAKES FILING NO. 6			
CONSTRUCTION PLANS			
PRIVATE POND 'B'			
EDB - FULL SPECTRUM DETENTION			
DESIGNED BY	MAL	SCALE	DATE 08/04/2020
DRAWN BY	MES	(H) 1" = 20'	SHEET 22 OF 30
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.60

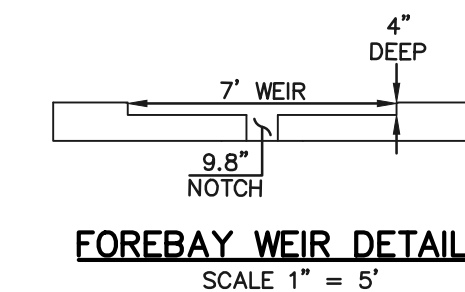
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MAIN 'A' 48" RCP FOREBAY & BAFFLE STRUCTURE - PLAN VIEW
SCALE 1" = 5'



MAIN 'A' 48" RCP FOREBAY & BAFFLE STRUCTURE - PROFILE VIEW
SCALE 1" = 5'



FOREBAY WEIR DETAIL
SCALE 1" = 5'

PCD FILE # SF-20-027

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NO.	REVISION	DATE

REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

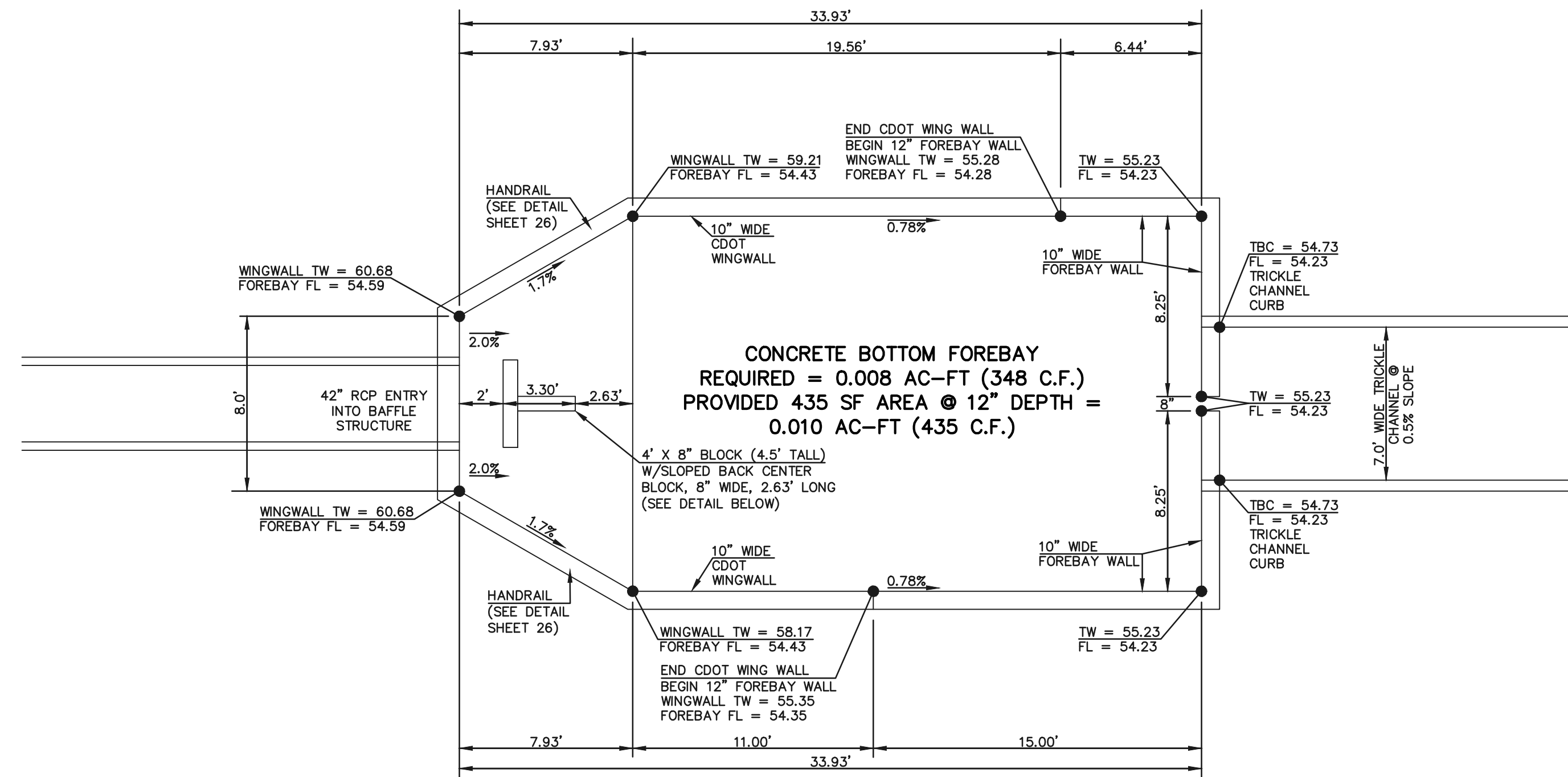
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE



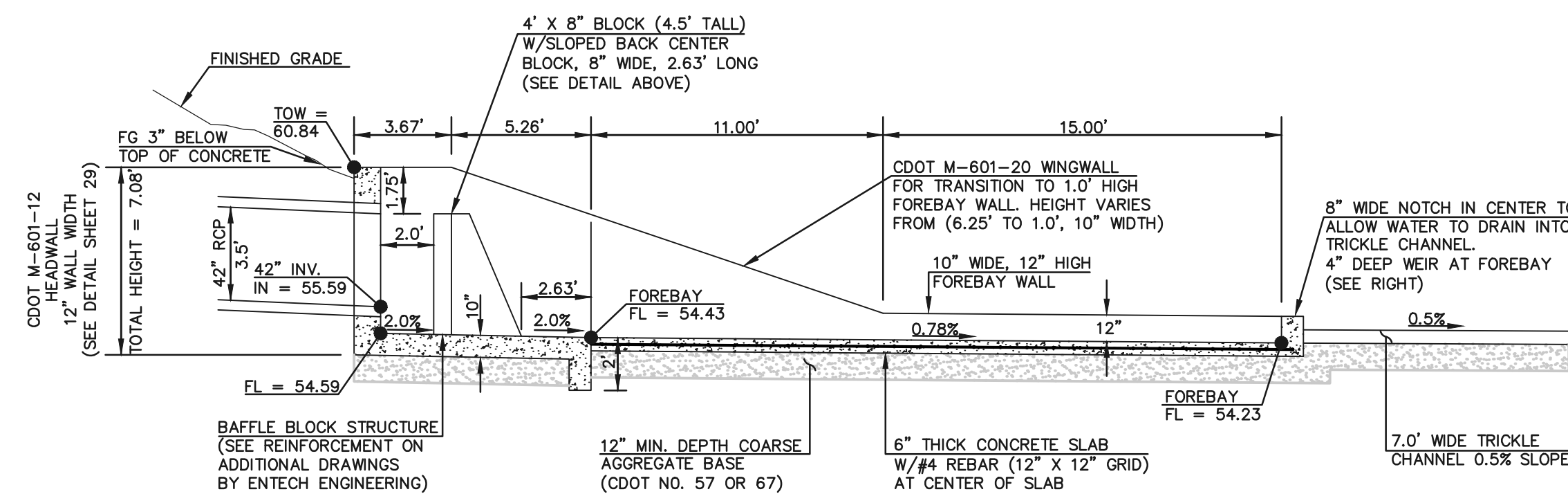
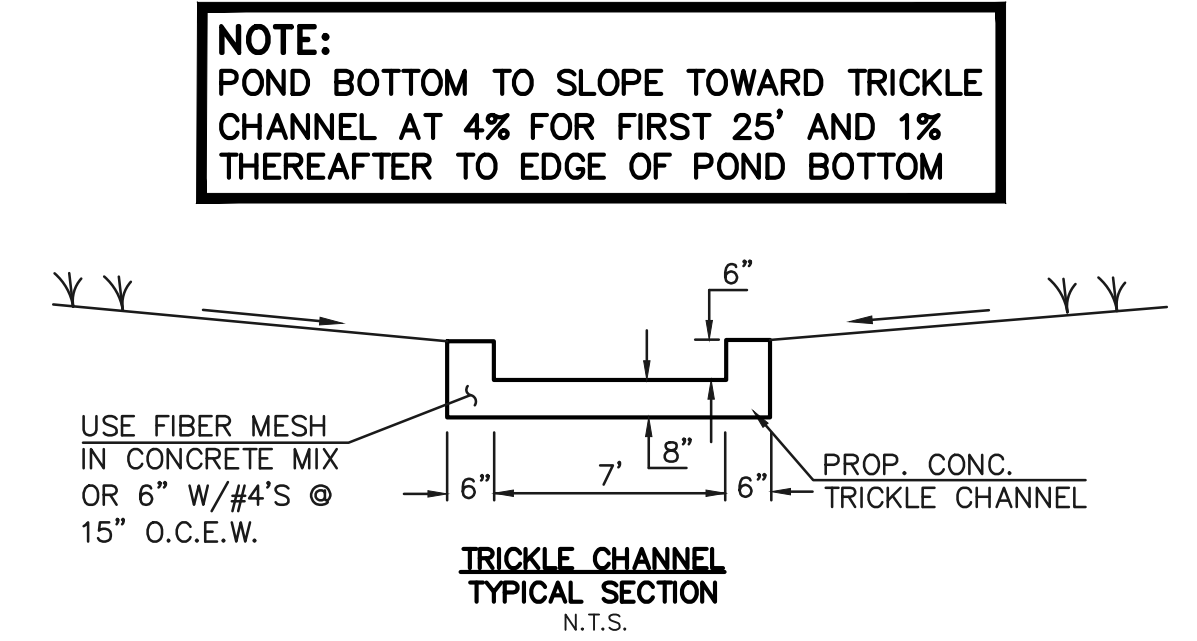
FOREST LAKES FILING NO. 6 CONSTRUCTION PLAN			
MAIN 'A' - 48" IMPACT STRUCTURE			
DESIGNED BY	MAL	SCALE	DATE 08/04/2020
DRAWN BY	MES	(H) 1" = 5'	SHEET 23 OF 30
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.60

619 N. Cascade Avenue, Suite 200 (719) 785-0790
Colorado Springs, Colorado 80903 (719) 785-0799 (fax)

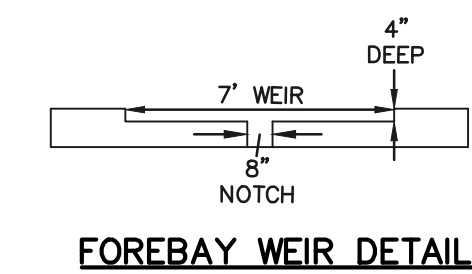
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MAIN 'H' 42" RCP FOREBAY & BAFFLE STRUCTURE - PLAN VIEW
SCALE 1" = 5'



MAIN 'H' 42" RCP FOREBAY & BAFFLE STRUCTURE - PROFILE VIEW
SCALE 1" = 5'



PCD FILE # SF-20-027

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NO.	REVISION	DATE

REVIEW:

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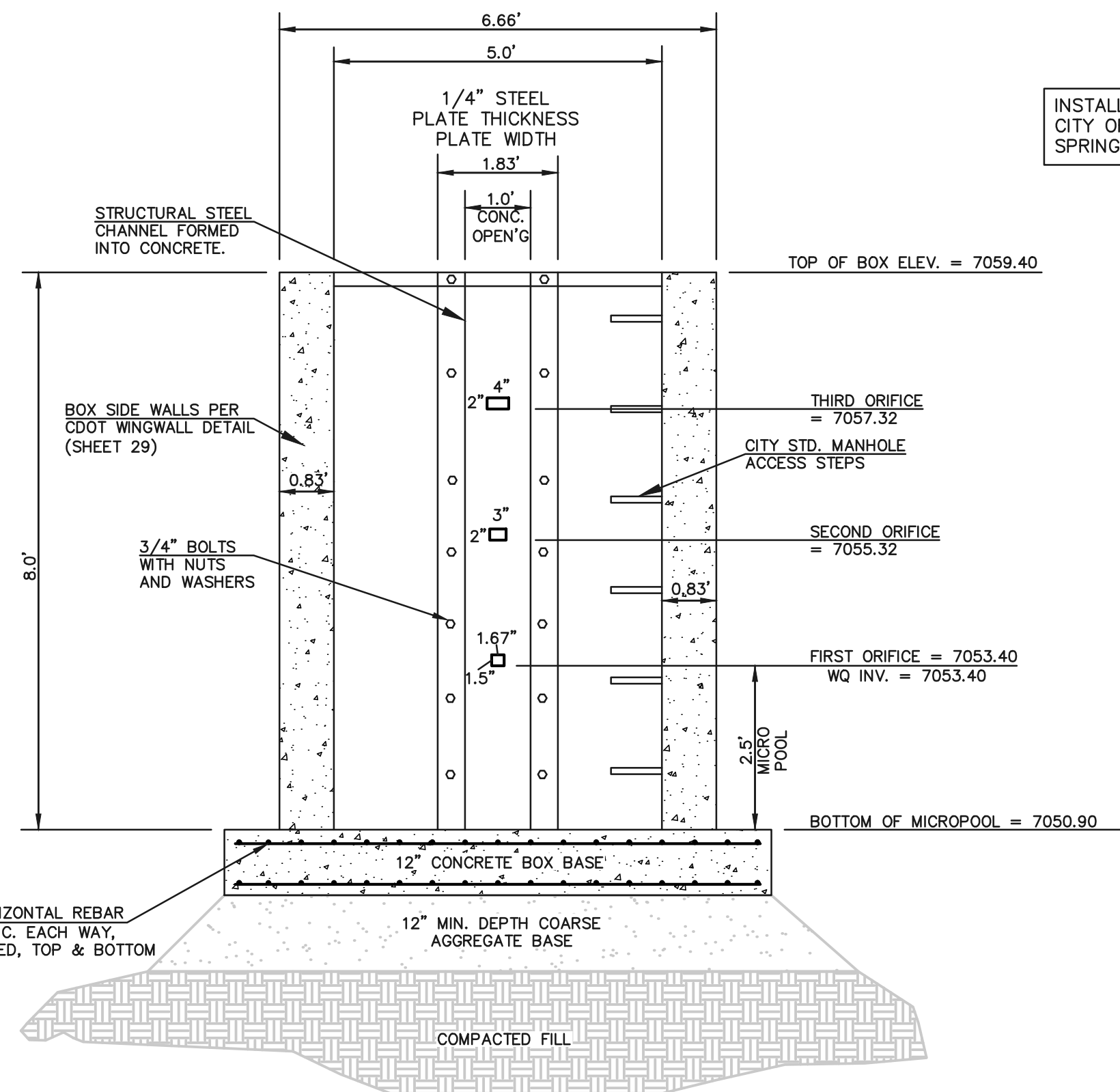
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE



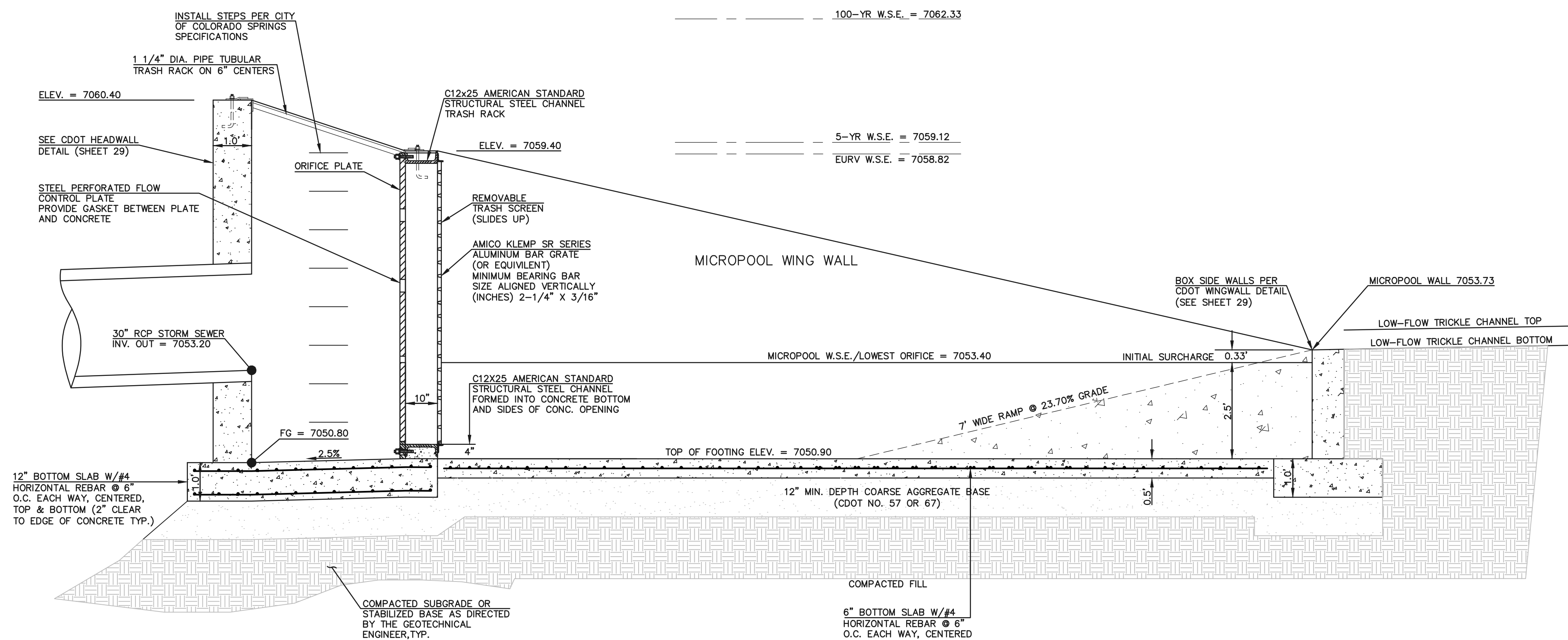
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MAIN 'H' - 42" IMPACT STRUCTURE			
DESIGNED BY	MAL	SCALE	DATE 08/04/2020
DRAWN BY	MES	(H) 1" = 5'	SHEET 24 OF 30
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.60



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5'x4' OUTLET BOX ORIFICE PLATE
SCALE 1" = 2'



5'x4' OUTLET BOX MICRO POOL
SCALE 1" = 2'

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DESIGNED BY	MAL	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 2'	SHEET	25 OF 30
CHECKED BY		(V) 1" = N/A	JOB NO.	1175.60

PCD FILE # SF-20-027

FOREST LAKES FILING NO. 6
CONSTRUCTION PLAN

POND OUTLET BOX - PROFILE VIEW

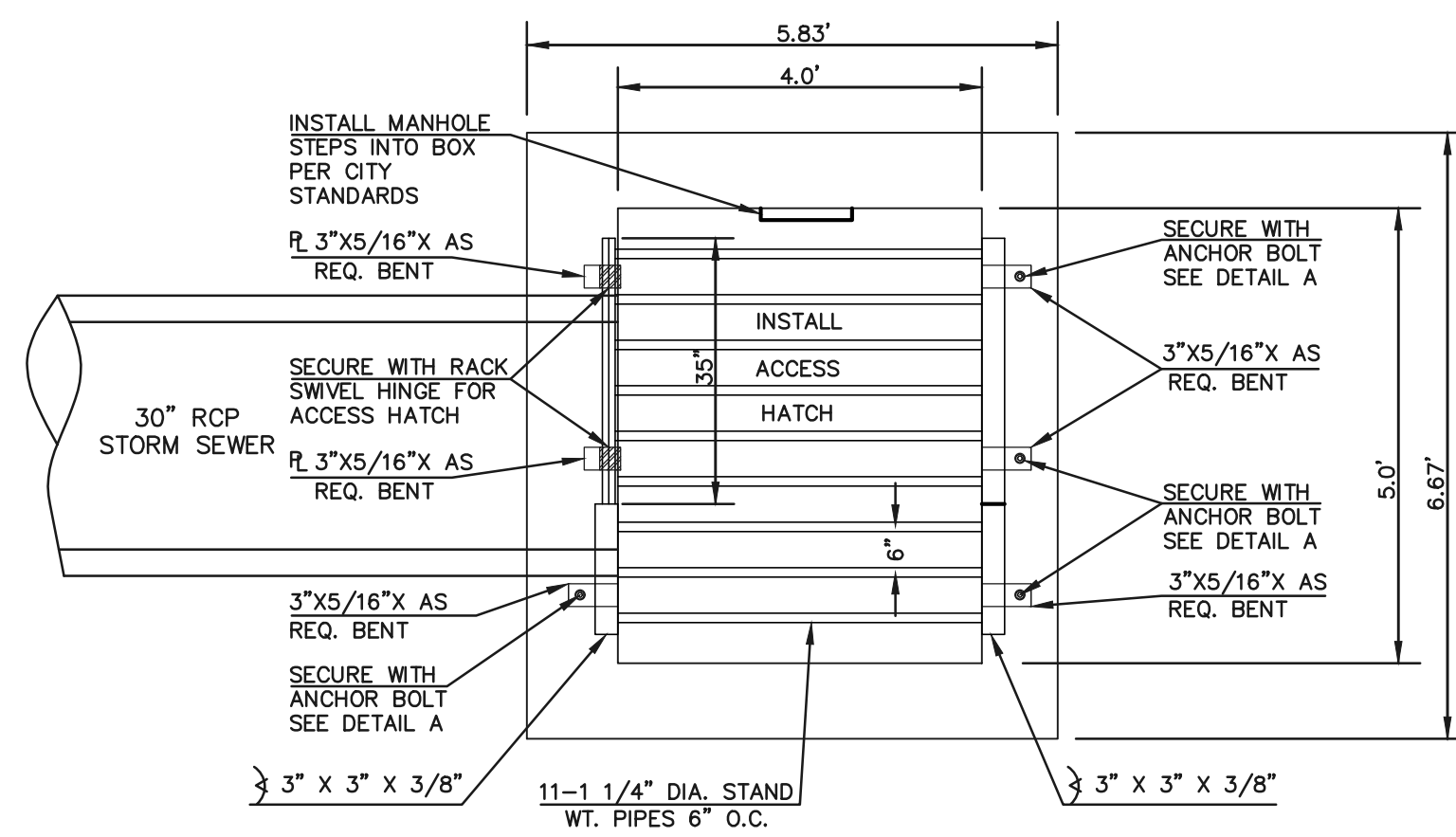
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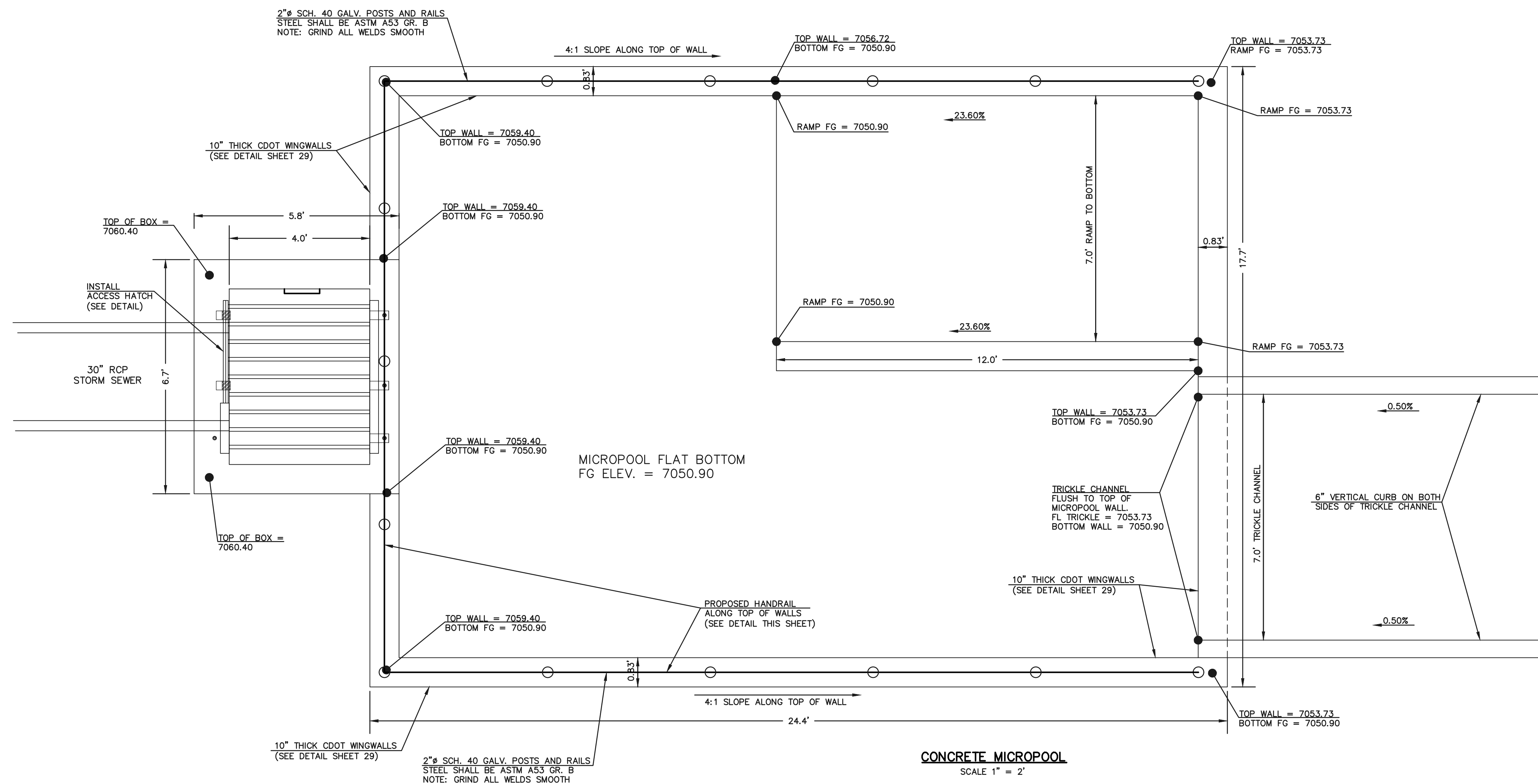
(719) 785-0790
(719) 785-0799 (fax)

DESIGNED BY	MAL	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 2'	SHEET	25 OF 30
CHECKED BY		(V) 1" = N/A	JOB NO.	1175.60

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5'x4' OUTLET BOX OVERFLOW TRASH RACK
SCALE 1" = 2'



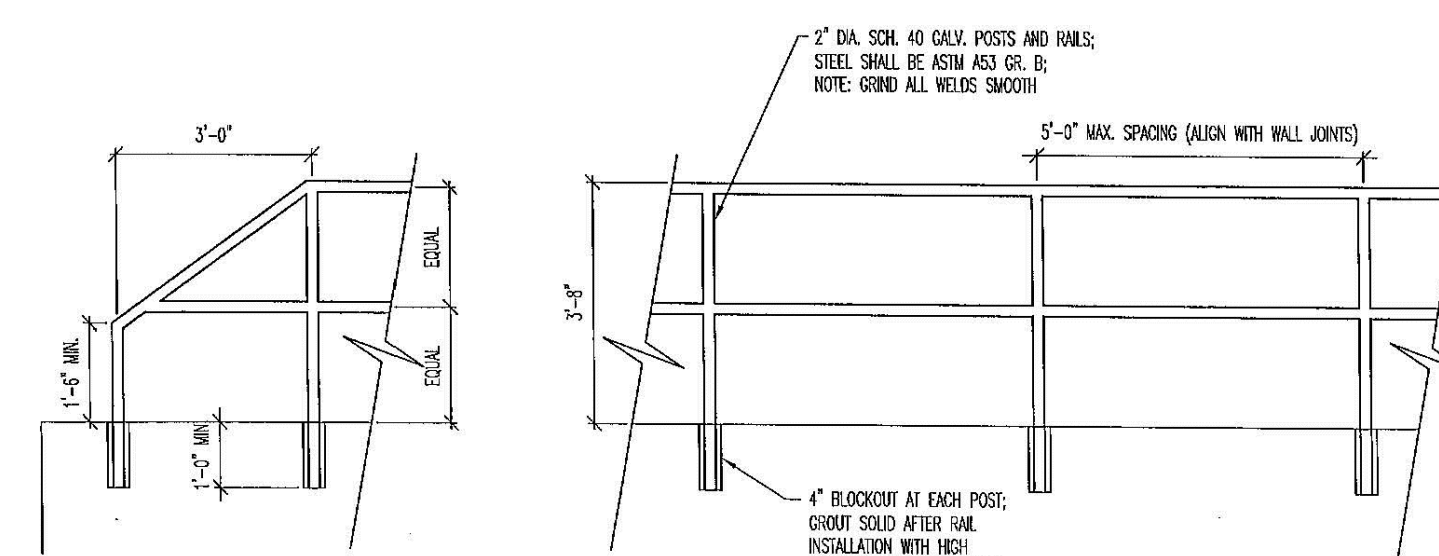
CONCRETE MICROPOOL
SCALE 1" = 2'

STEEL FABRICATION NOTES:

- FABRICATED STEEL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AISC AND AWS SPECIFICATIONS.
- THE OUTLET STRUCTURE BARGRATE IS DESIGNED FOR A VERTICAL LOAD OF 300 LBS./SQ. FT.
- ALL STRUCTURAL STEEL SHAPES TO INCLUDE: ANGLE, PLATE, AND BAR SHALL MEET ASTM A36 SPECIFICATIONS, FY = 36 KSI MINIMUM. STRUCTURAL TUBING SHALL MEET ASTM A500 GRADE B SPECIFICATIONS, FY = 48 KSI MINIMUM. STEEL PIPE SHALL BE STANDARD WEIGHT PIPE ASTM A53 GRADE B, FY = 35 KSI MINIMUM.
- WELDS NOT INDICATED SHALL BE 1/8" MINIMUM FILLET OR GROOVE, CONTINUOUS SO FAR AS POSSIBLE, CONSIDER VANDALISM LOADS, WELD ACCORDINGLY AT CRITICAL LOCATIONS.
- PRIOR TO PAINTING REMOVE ALL OIL, SCALE, AND SLAG, GRIND OFF BURRS AND SHARP EDGES.
- PAINT WITH ONE SHOP COAT OF ZINC RICH PRIMER AND TWO COATS OF ALUMINUM PAINT, AASHTO M-69

OVERFLOW TRASH RACKS:

- ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE ACCESS PANELS (AS SHOWN)
- TRASH RACKS SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL TRASH RACKS SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
- TRASH RACKS SHALL BE DESIGNED SUCH THAT THE DIAGONAL DIMENSION OF EACH OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
- STRUCTURAL DESIGN OF THE TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

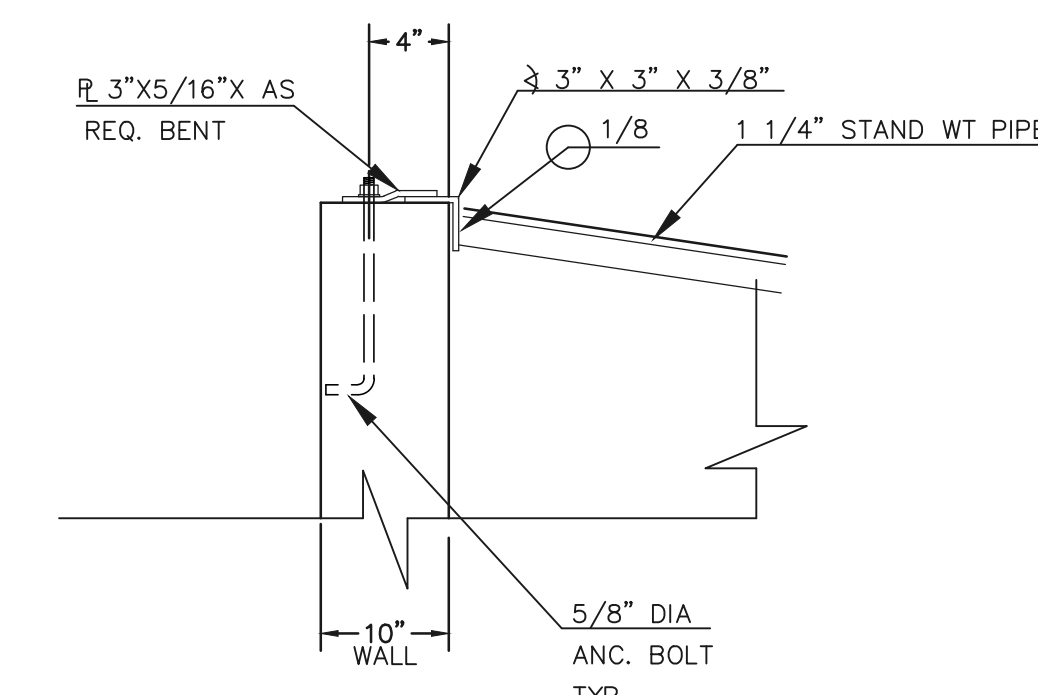


MICROPOOL RAILING

NOTES:

- WELD PLATES MAY BE SUBSTITUTED FOR PIPE EMBEDMENT. DESIGN CRITERIA SHALL BE IN ACCORDANCE WITH AASHTO STANDARDS.
- HANDRAIL DESIGN SHALL BE COMPATIBLE WITH THE DESIGN OF THE WINGWALLS AND HEADWALLS.
- RAILING POSTS SHALL BE SET TO NORMAL TO GRADE. RAILS SHALL RUN PARALLEL TO THE SLOPES OF TOPS OF THE WALLS.
- ALL RAILS SHALL HAVE EXPANSION JOINTS SPACED AT 40'-0" MAX. JOINT ENDS SHALL BE FREE OF ANY SHARP EDGES OR CORNERS.
- HANDRAIL FINISH SHALL BE ONE COAT RED METAL PRIMER AND TWO COATS ENAMEL (RUSTOLEUM OR EQUIVALENT). COLOR SHALL BE APPROVED BY ENGINEER PRIOR TO APPLICATION.

INLET/OUTLET BOX RAILING
N.T.S.



ANCHOR BOLT/WALL DETAIL
N.T.S.

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NO.	REVISION	DATE

REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE



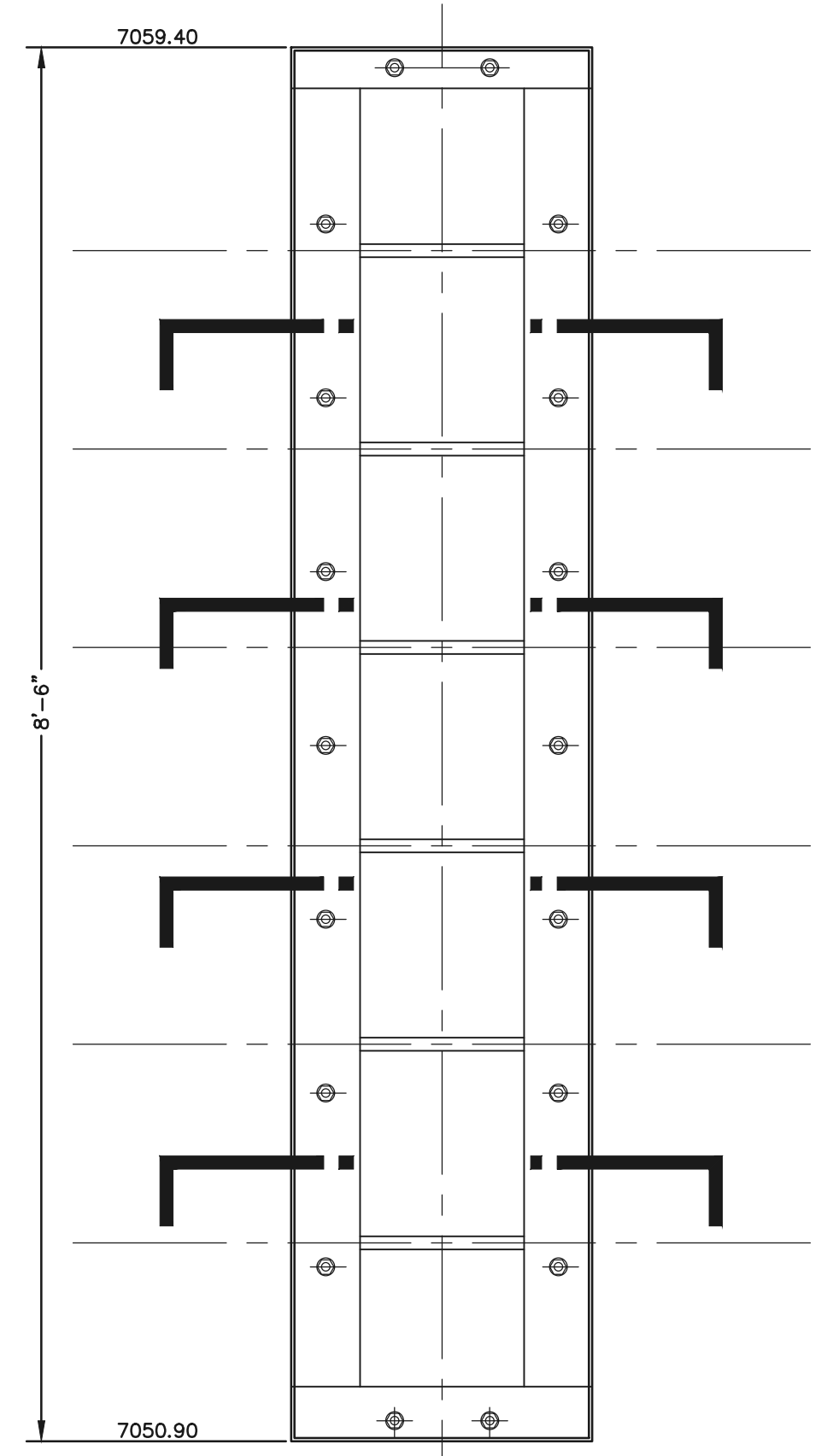
PCD FILE # SF-20-027

FOREST LAKES FILING NO. 6
CONSTRUCTION PLAN

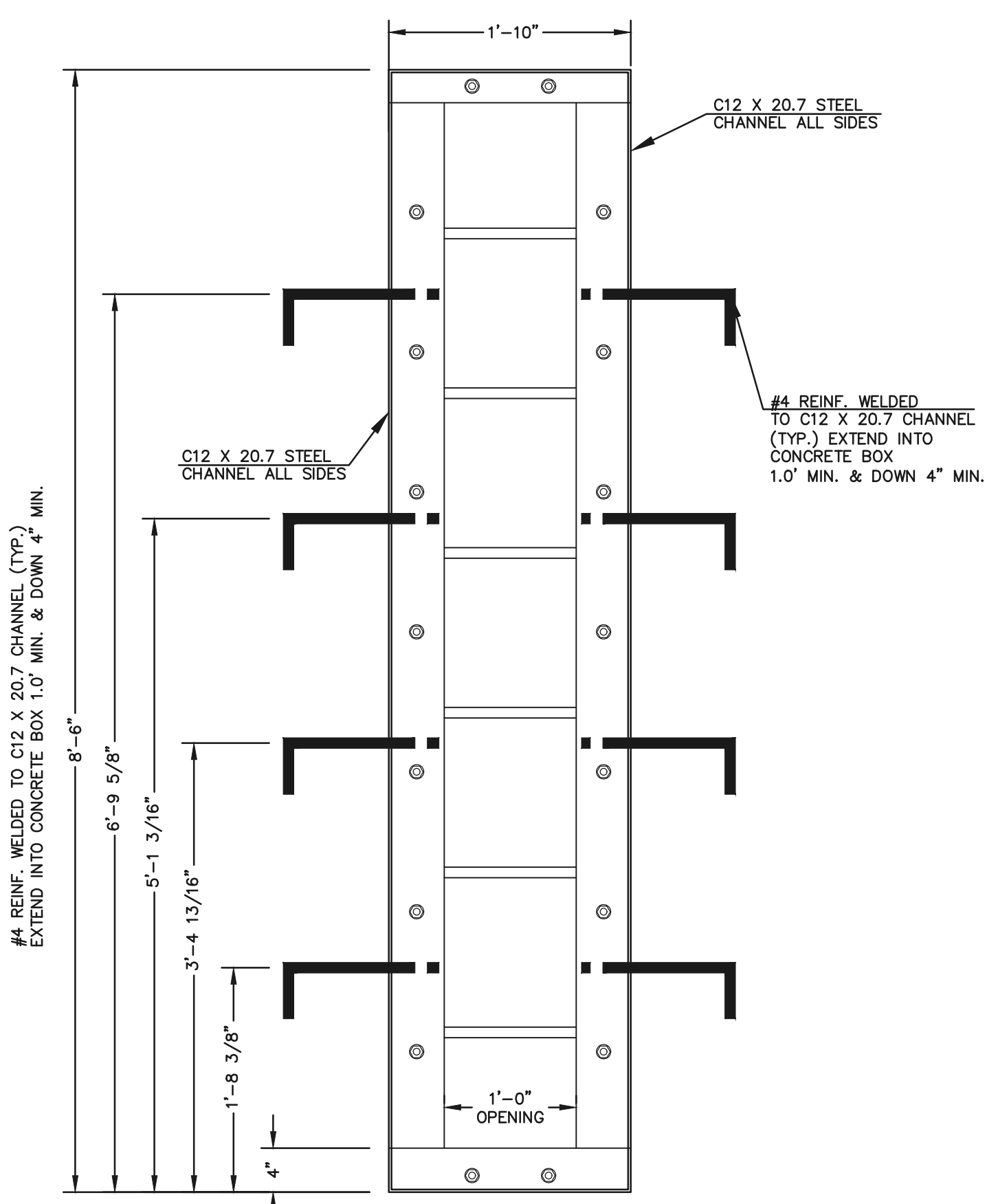
POND OUTLET BOX AND MICROPOOL DETAILS

DESIGNED BY	MAL	SCALE	DATE	08/04/2020
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CHECKED BY	(V) 1" = N/A	JOB NO.	1175.60	

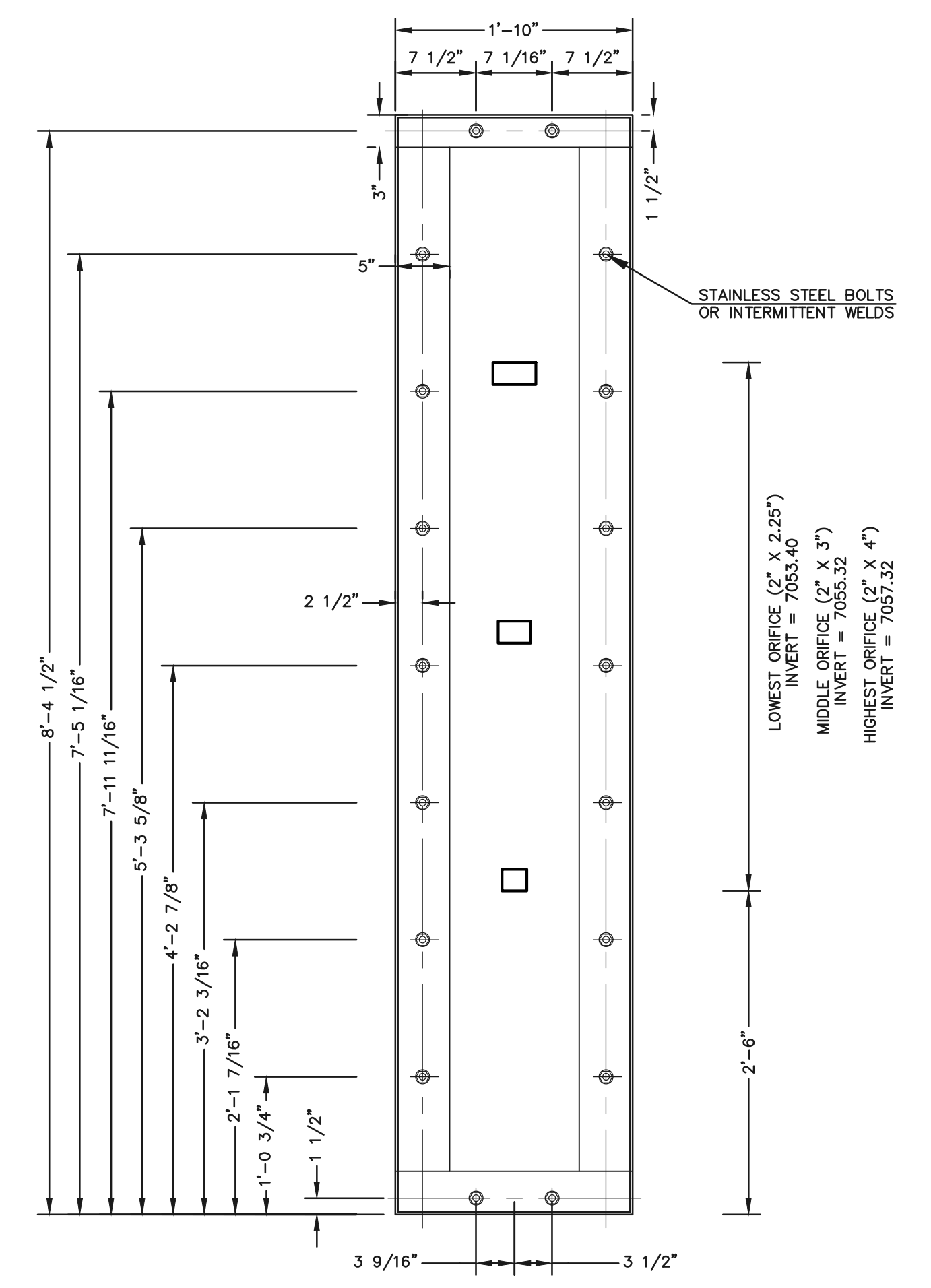




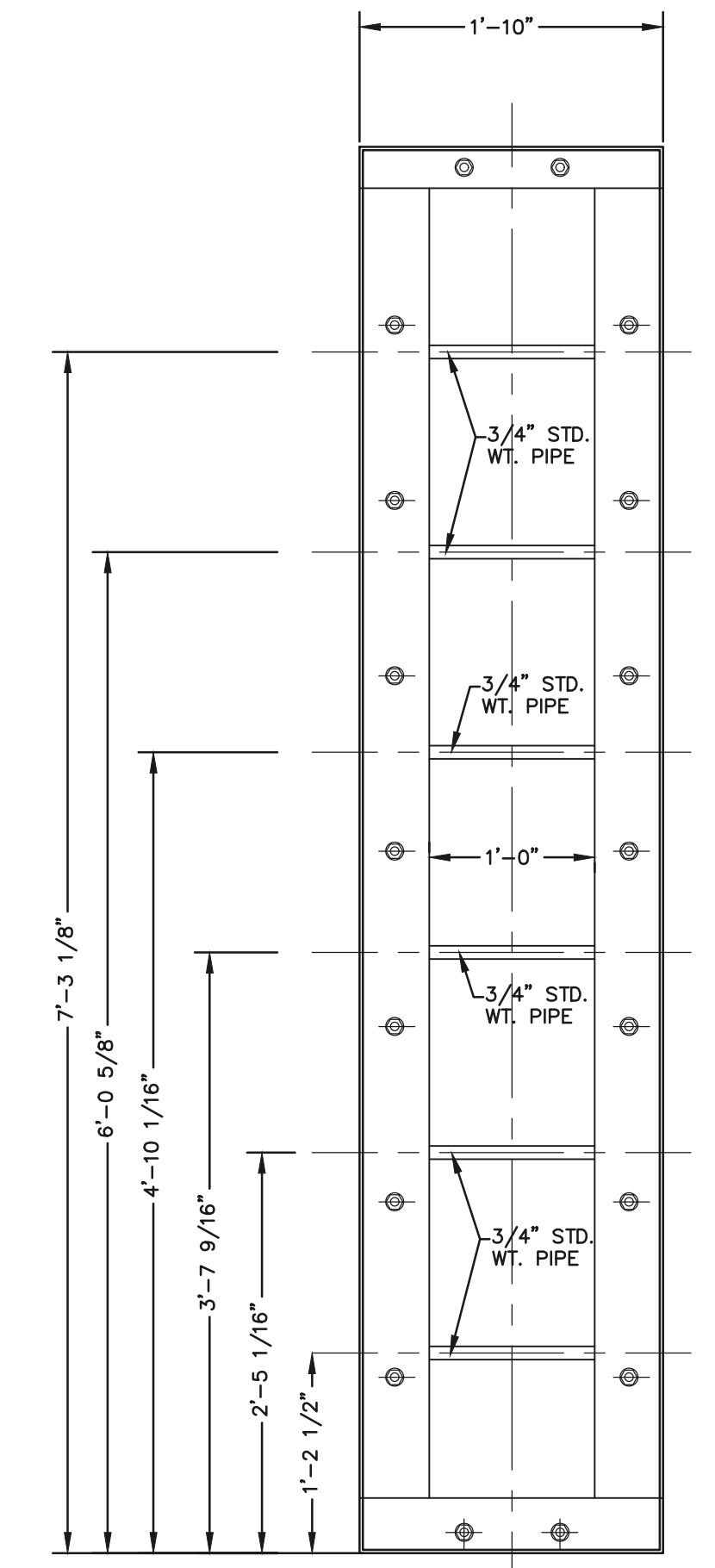
**OUTLET CONTROL
PLATE AND FRAME**
SCALE: 1"=1'



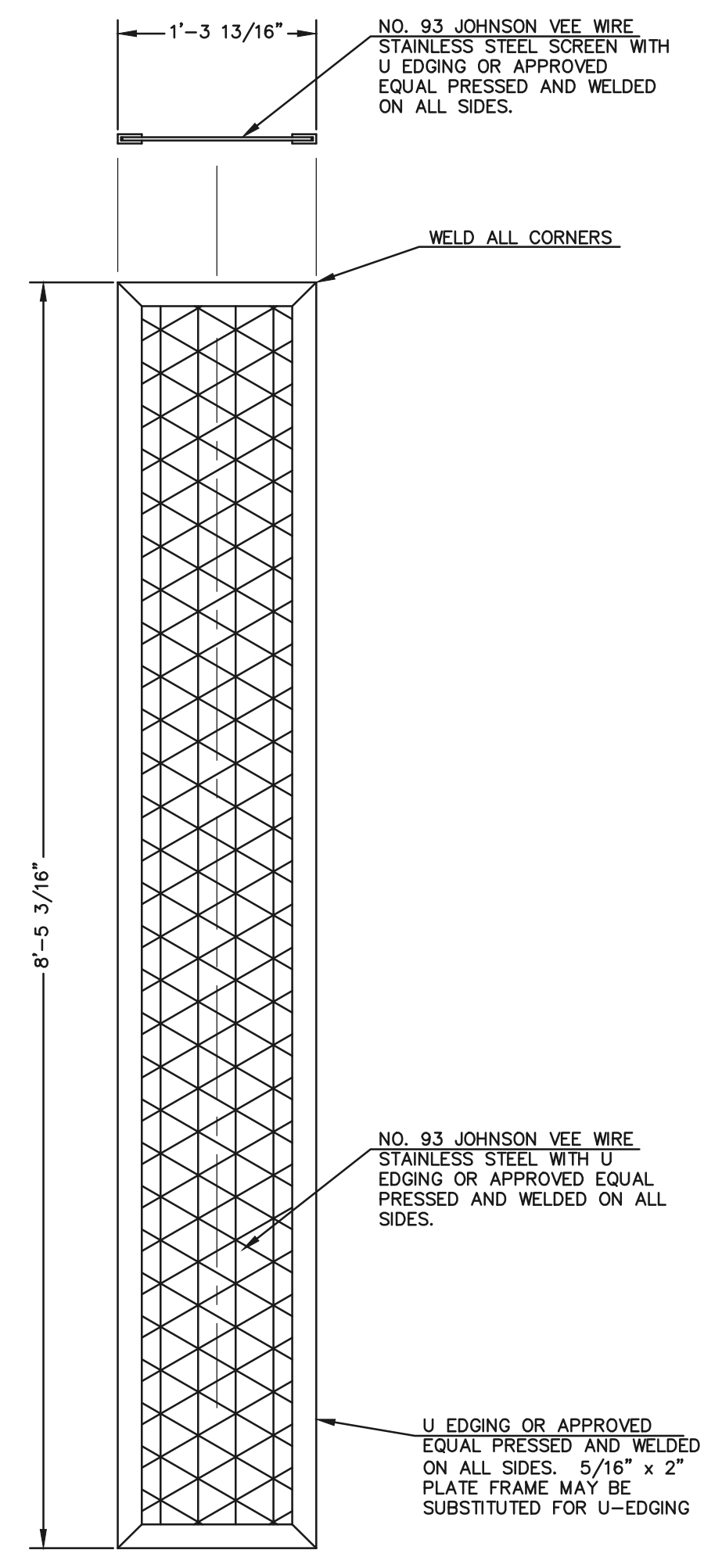
**CHANNEL FRAME
WITH WALL ANCHORS**
SCALE: 1"=1'



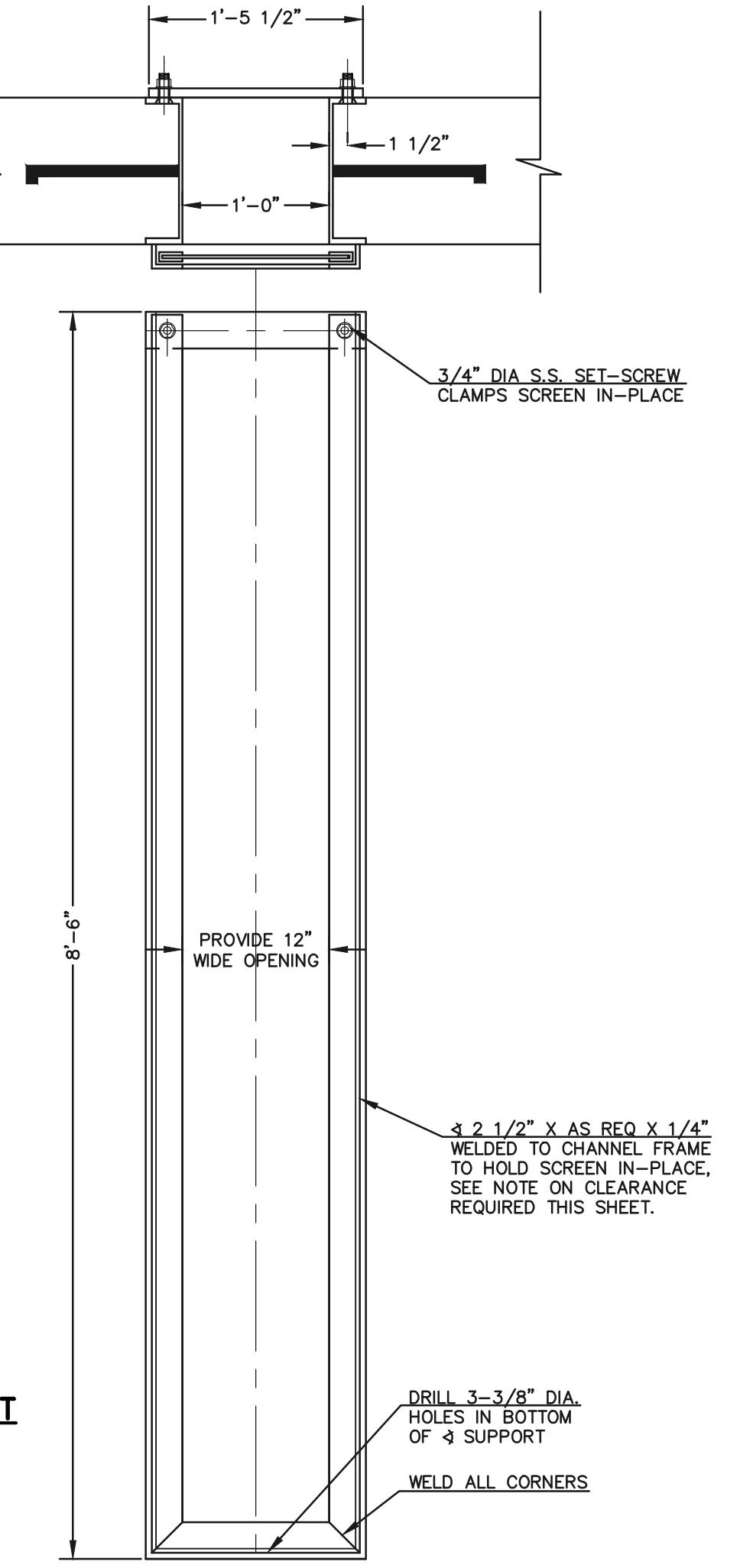
**1/4" THICK
ORIFICE PLATE**
SCALE: 1"=1'



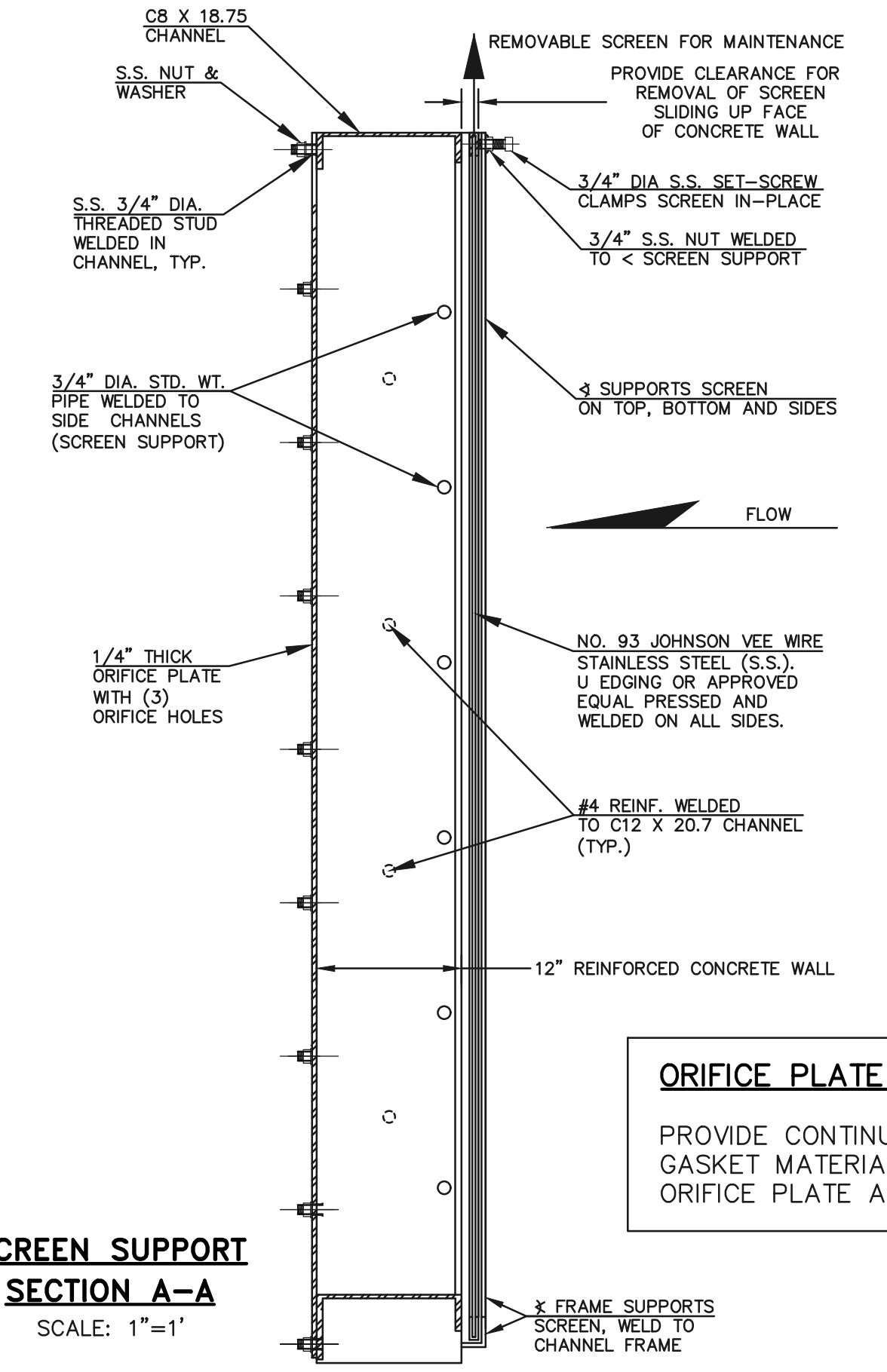
CHANNEL FRAME
SCALE: 1"=1'



TRASH SCREEN
SCALE: 1"=1'



SCREEN SUPPORT
SCALE: 1"=1'



**SCREEN SUPPORT
SECTION A-A**
SCALE: 1"=1'

ORIFICE PLATE NOTE:
PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE

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KYLE R. CAMPBELL, COLORADO P.E. #29794	DATE

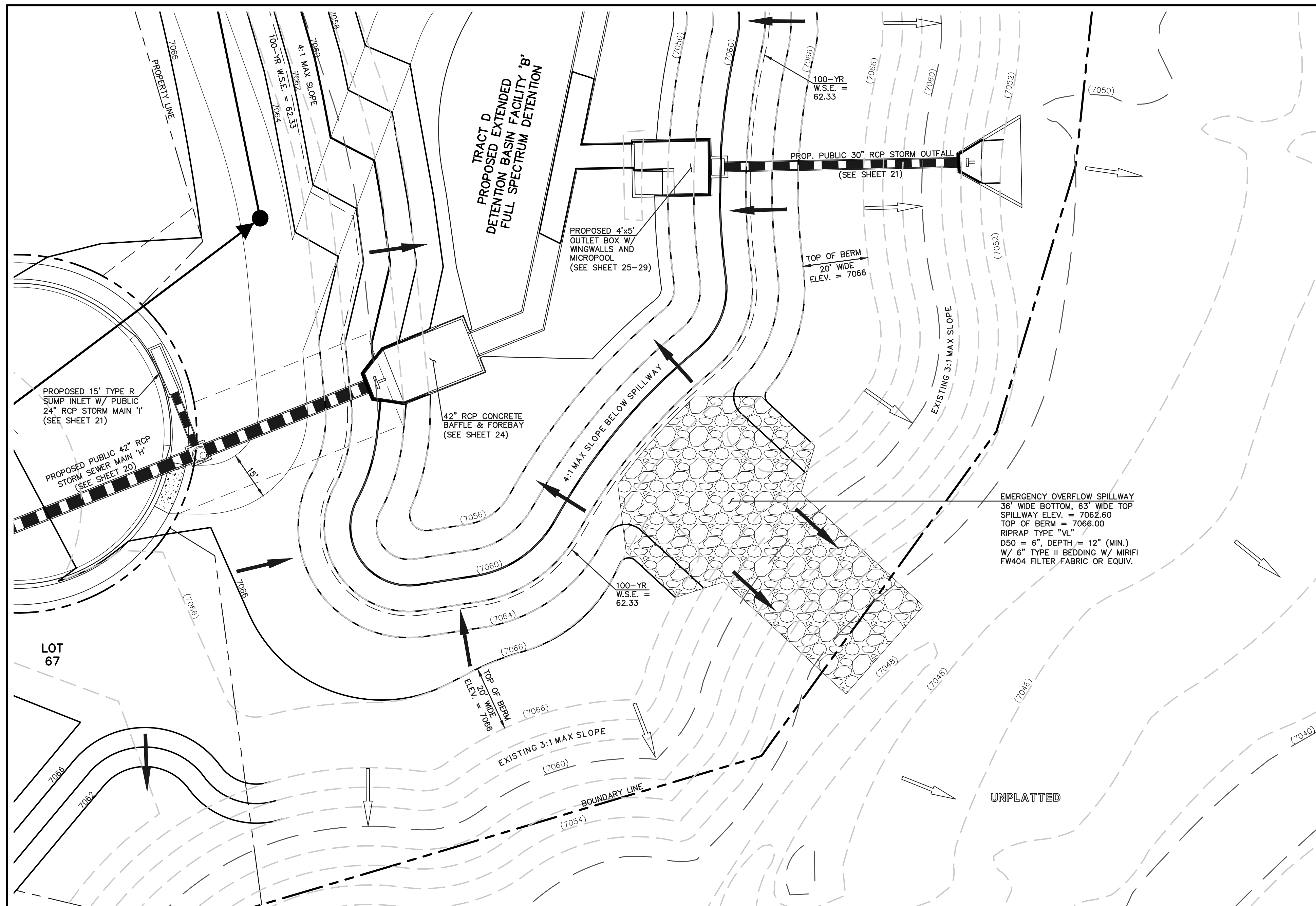
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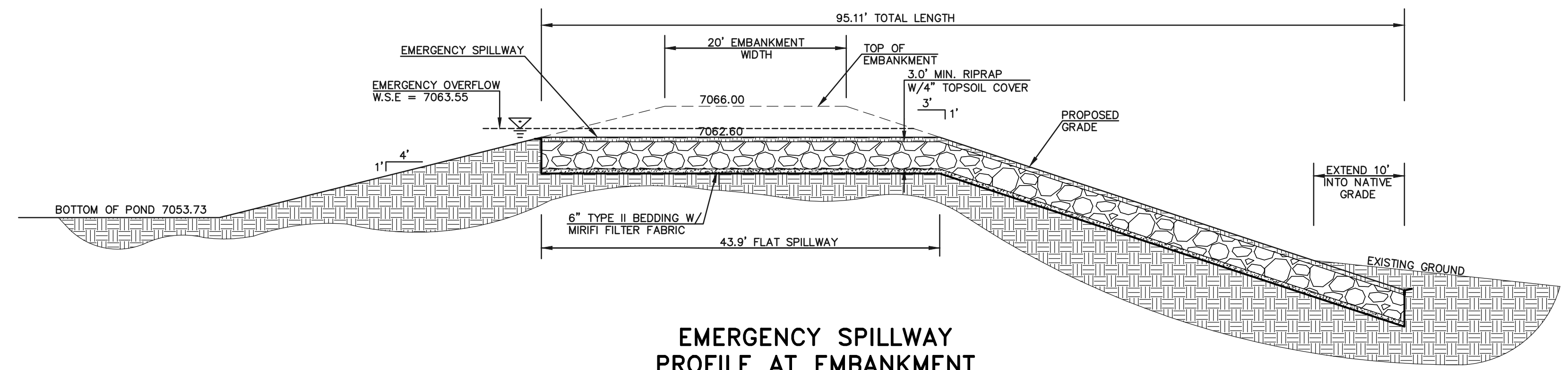
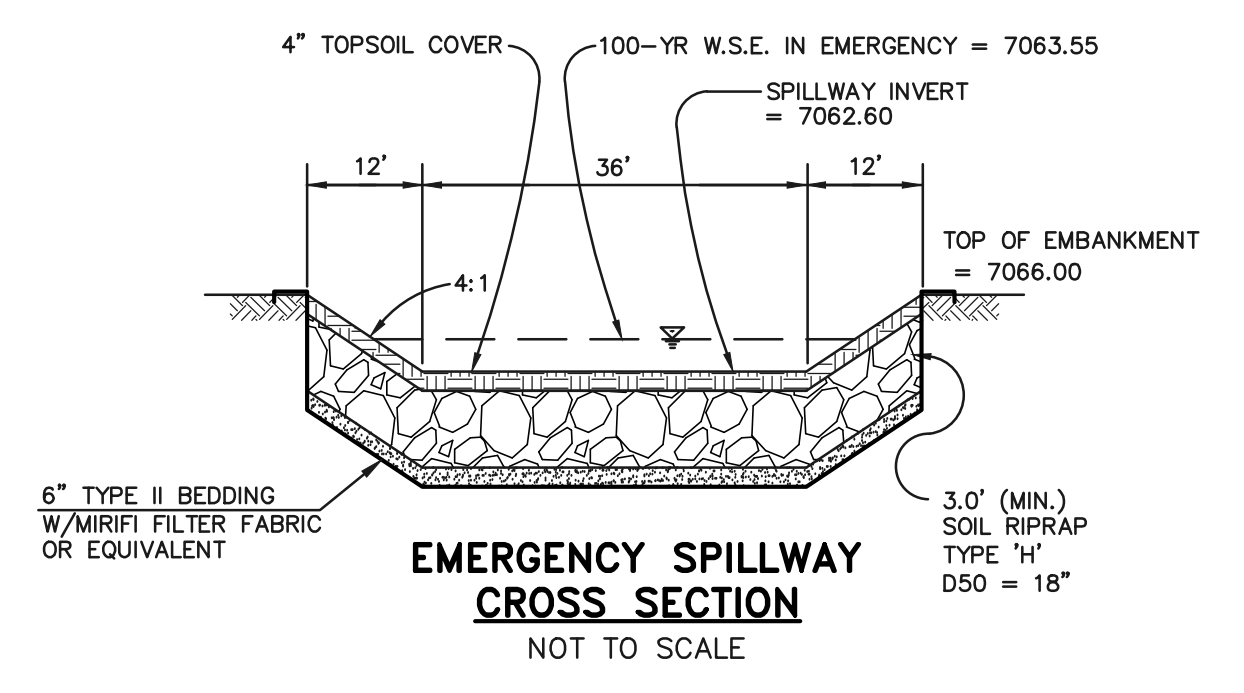
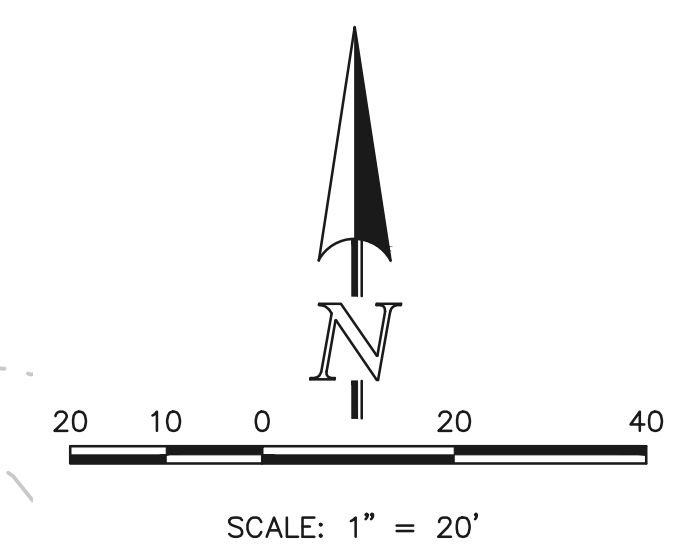
FOREST LAKES FILING NO. 6 CONSTRUCTION PLAN			
OUTLET BOX DETAILS			
DESIGNED BY	MAL	SCALE	DATE 08/04/2020
DRAWN BY	MES	(H) 1"= 1'	SHEET 27 OF 30
CHECKED BY	(V) 1"= N/A	JOB NO.	1175.60

PCD FILE # SF-20-027

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**EMERGENCY SPILLWAY,
EMBANKMENT, AND RUNDOWN
PLAN VIEW**
SCALE: 1" = 20'



**EMERGENCY SPILLWAY
PROFILE AT EMBANKMENT
SECTION A-A**
SCALE: 1" = 10'

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			KYLE R. CAMPBELL, COLORADO P.E. #29794
			DATE

DESIGNED BY	MAL	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1"=VARIES	SHEET	28 OF 30
CHECKED BY	(V) 1"= N/A	JOB NO.	1175.60	

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FOREST LAKES FILING NO. 6
CONSTRUCTION PLAN

POND SPILLWAY DETAILS

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Colorado Springs, Colorado 80903

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(719) 785-0799 (Fax)

DESIGNED BY: MAL

DRAWN BY: MES

CHECKED BY: (V) 1"= N/A

SCALE: (H) 1"=VARIES

DATE: 08/04/2020

SHEET: 28 OF 30

JOB NO.: 1175.60

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CONCRETE HEADWALL INSTALLATIONS

SEE STANDARD PLAN M-601-10 FOR REINFORCING DETAILS.

GENERAL NOTES

- FOR SIZE AND LOCATION OF PIPES, SEE THE PLANS.
- ALL CONCRETE SHALL BE CLASS B.
- FOOTINGS IN ROCK SHALL BE POURED OUT TO ROCK AND NOT FORMED IN ACCORDANCE WITH SUBSECTION B(4)(b).
- CORNERED CONCRETE CORNERS SHALL BE CHAMFERED 3/4".
- HEADWALL SHALL HAVE REINFORCING STEEL INSTALLED IN A PATTERN SIMILAR TO STANDARD PLAN M-601-10.
- THE COST OF REINFORCING STEEL SHALL BE INCLUDED IN THE WORK UNLESS THE STEEL QUANTITIES ARE LISTED IN THE PLANS AND ARE PAID FOR SEPARATELY.

PIPE TYPE	PIPE DIAMETER (AND EQUIVALENT DIAMETERS ONLY)											
	18		24		30		36		42		48	
CIRCULAR	RIGID	1.0	1.3	1.5	2.0	2.0	2.7	2.8	3.6	3.6	4.6	6.0
	FLEXIBLE	L1	L4	L8	L1	L2	L3	L3	L4	L4	L5	L6
ELLIPTICAL	RIGID	0.9	1.2	1.3	1.6	1.7	2.2	2.3	2.9	2.9	3.7	4.4
	METAL	22 x 13	29 x 18	36 x 22	43 x 27	50 x 31	58 x 36					
ARCH	RIGID	0.9	1.3	1.4	1.9	1.8	2.4	2.4	3.4	3.2	4.4	5.0
	METAL	22 x 13	29 x 18	36 x 22	43 x 27	50 x 31	58 x 36					

CONCRETE QUANTITIES FOR ONE CONCRETE HEADWALL (CUBIC YARDS)

THICKNESS	MATERIAL	PIPE DIAMETER (IN.)					
		18	24	30	36	42	48
4"	CONCRETE	0.4	0.8	1.2			
6"	CONCRETE				2.6	3.6	4.7
18"	REBAR	2.0	3.5	5.4	7.8	10.7	13.9

PIPE OUTLET PAVING (CUBIC YARDS)

NOTE: VOLUME OCCUPIED BY PIPE HAS BEEN DEDUCTED.

TYPE OF PIPE	HEADWALL DIMENSIONS		TYPE OF PIPE	HEADWALL DIMENSIONS	
	C	D		A	B
CIRCULAR	D = PIPE DIAMETER (INSIDE) H = D + 30" W = 3D + 18" T = 0.4 H (NEAREST IN.) B = 1.5 D (MINIMUM) L = W + B		ARCH OR ELLIPTICAL	D = EQUIVALENT CIRCULAR DIAMETER (INSIDE) H = ROSE + 30" W = 3D + 18" T = 0.4 H (NEAREST IN.) B = 1.5 D (MINIMUM) L = W + B	

Computer File Information

Creation Date: 07/04/12
Last Modification Date: 07/04/12
Drawing File Name: 60102101.dgn
CAD Ver: MicroStation V8
Scale: Not to Scale
Units: English

Sheet Revisions

Date	Comments

Colorado Department of Transportation
4201 East Arkansas Avenue
Denver, Colorado 80222
Phone: (303) 757-9000
Fax: (303) 757-9820
Project Development Branch DD/LTA

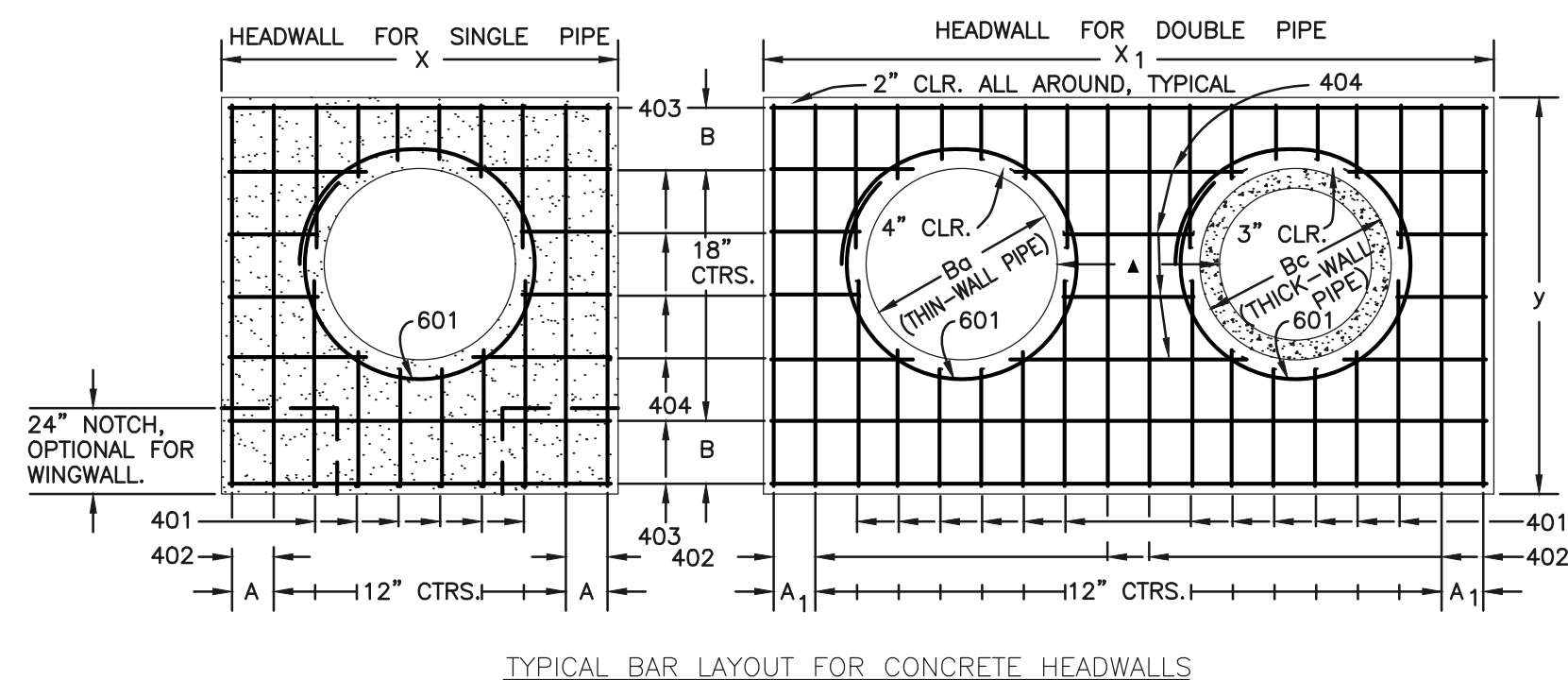
HEADWALLS AND PIPE OUTLET PAVING
STANDARD PLAN NO. M-601-12
Sheet No. 1 of 1

CDOT M-601-12 HEADWALL DETAIL

GENERAL NOTES

- ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4".
- WINGWALL FOOTINGS AND FLOOR OF BOX CULVERT SHALL BE PLACED MONOLITHICALLY.
- DIMENSIONS "A", "B", "RISE", "X", "Y", "M" AND ANGLES FOR WINGWALLS SHALL BE AS SHOWN ON THE PLANS.
- REINFORCING STEEL SHALL BE GRADE 60.
- THE MINIMUM SPLICE LENGTH FOR COMMON BAR SIZES SHALL BE:

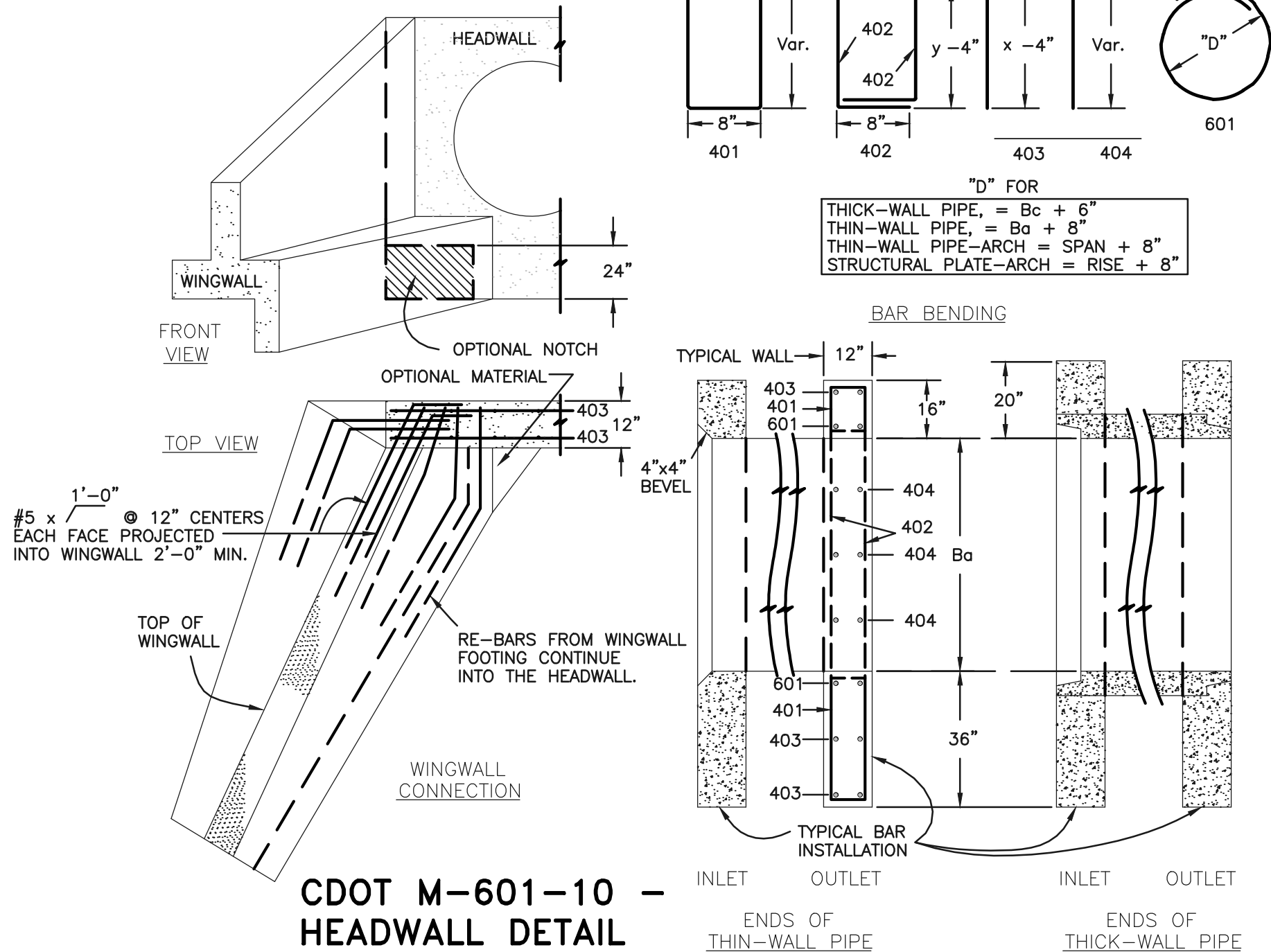
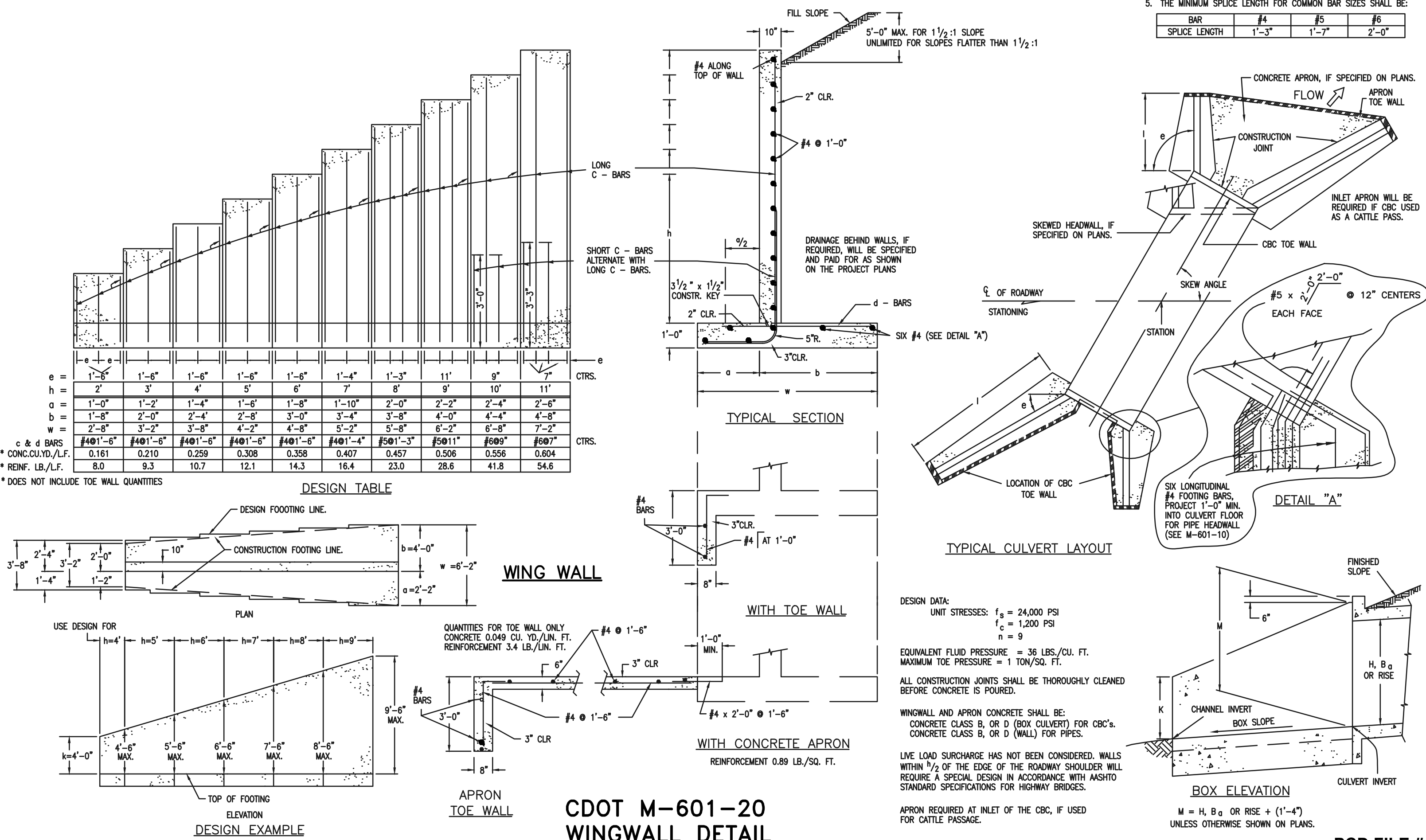
BAR	#4	#5	#6
SPLICE LENGTH	1'-3"	1'-7"	2'-0"



HEADWALL FOR THICK-WALL ROUND PIPE

DIMENSIONS		CONCRETE		STEEL								
Ba	Bc	SGL	DBL	SGL	DBL							
54	65	8-9	8 1/2	15-6	7	9-2	17	20	2.12	3.55	209	364
60	72	9-6	7	17-0	10	9-8	11	21	2.35	3.99	236	414
66	79	10-3	11 1/2	18-6	7	10-2	14	22	2.60	4.44	249	453
72	86	11-0	10	20-0	10	10-8	17	23	2.85	4.91	270	476
78	93	11-9	8 1/2	21-3	11	11-2	11	24	3.11	5.29	306	527
84	100	12-6	7	22-6	7	11-8	14	25	3.38	5.68	333	572
90	107	13-3	11 1/2	23-9	8 1/2	12-2	17	28	3.68	6.08	335	593
96	114	14-0	10	25-0	10	12-8	11	27	3.94	6.48	379	649
102	121	14-9	8 1/2	26-3	11 1/2	13-2	14	28	4.24	6.89	400	664
108	128	15-6	7	27-6	7	13-8	17	29	4.54	7.30	424	707

- GENERAL NOTES**
- CONCRETE SHALL BE CLASS B.
 - HEADWALL SHALL BE PERPENDICULAR TO THE CULVERT CENTERLINE UNLESS OTHERWISE SHOWN ON THE PLANS. TABULATED DIMENSIONS AND QUANTITIES MUST BE ADJUSTED FOR SKEWED INSTALLATIONS.
 - FOR WINGWALL DETAILS, SEE STANDARD M-601-20.
 - VOLUME OCCUPIED BY PIPE HAS BEEN DEDUCTED FROM STEEL AND CONCRETE QUANTITIES.
 - EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4".
 - ALL BARS SHALL HAVE A 2" MINIMUM CLEARANCE.
 - WHEN TWO OR MORE CONDUITS ARE LAID SIDE BY SIDE, THEY SHALL BE PLACED SO THAT THE ADJACENT PIPES WILL BE 1/2 INSIDE DIAMETER OR 1/2 INSIDE SPAN OR 3 FEET APART (INCLUDING WALL THICKNESS) WHICHEVER IS LESS.
 - ADD 0.89 X (X OR X1) (LB.) WHEN APRON IS REQUIRED.



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UTILITY NOTIFICATION CENTER OF COLORADO
IT'S THE LAW

THE LOCATIONS OF EXISTING 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 UNDERGROUND UTILITIES.

NO.	REVISION	DATE

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL, COLORADO P.E. #29794

CLASSIC CONSULTING

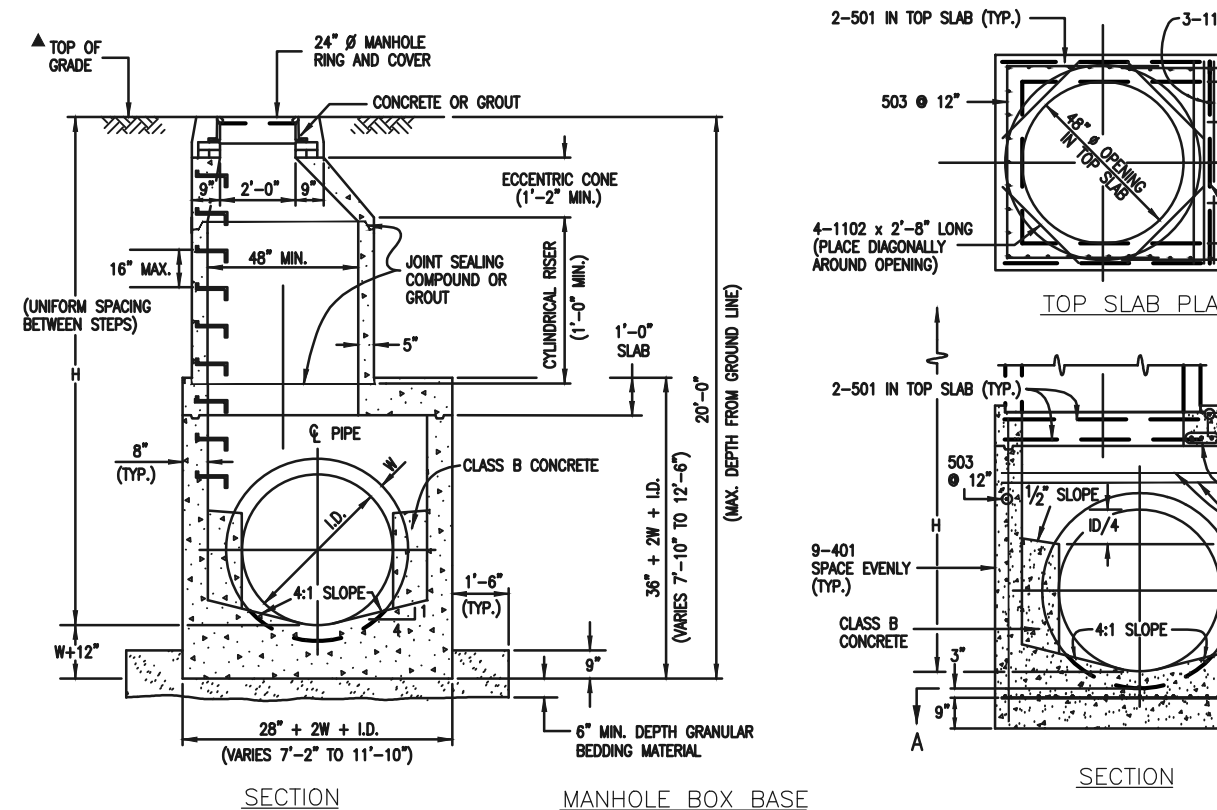
619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719)785-0790
(719)785-0799(Fax)

FOREST LAKES FILING NO. 6 CONSTRUCTION DRAWINGS

DETAILS SHEET

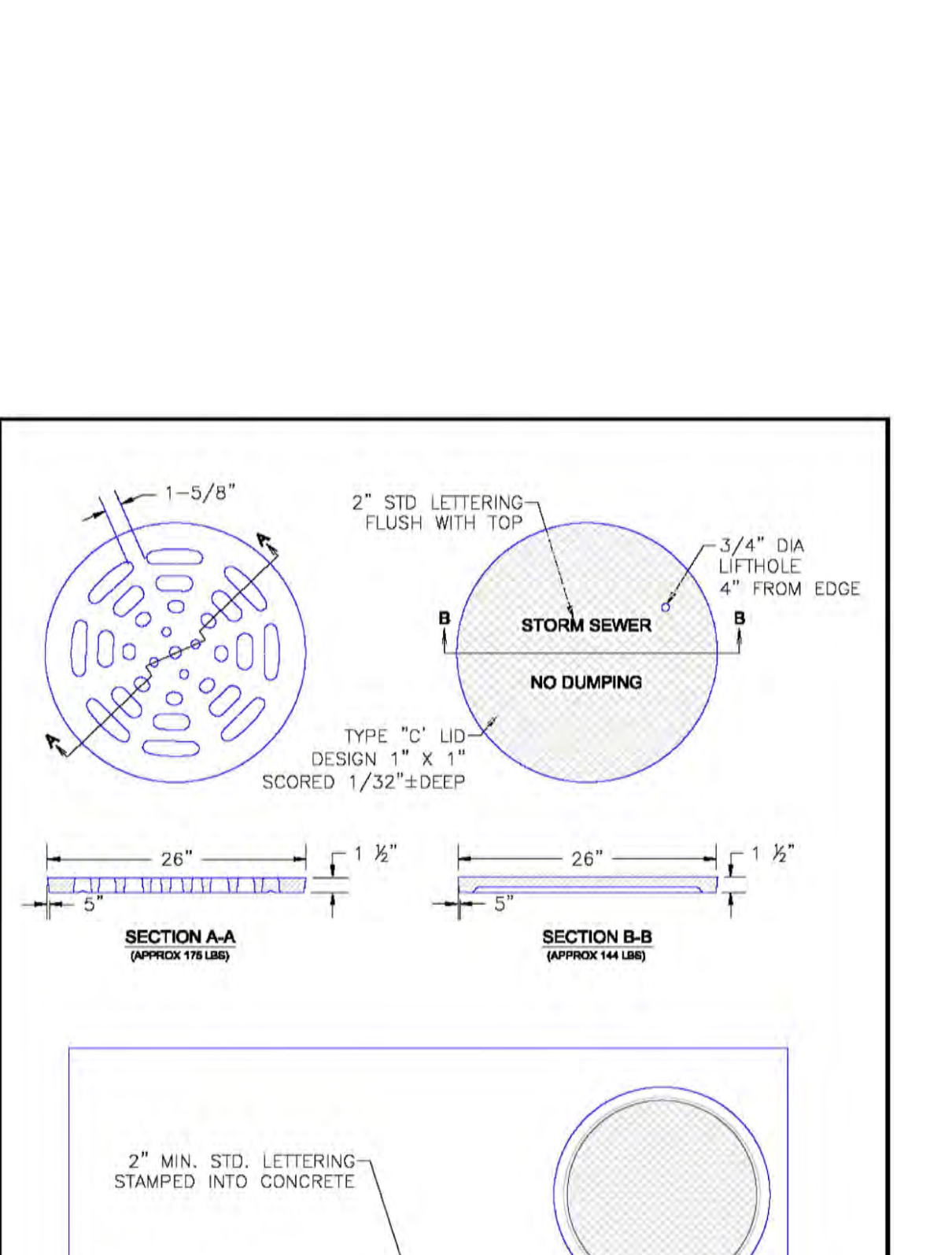
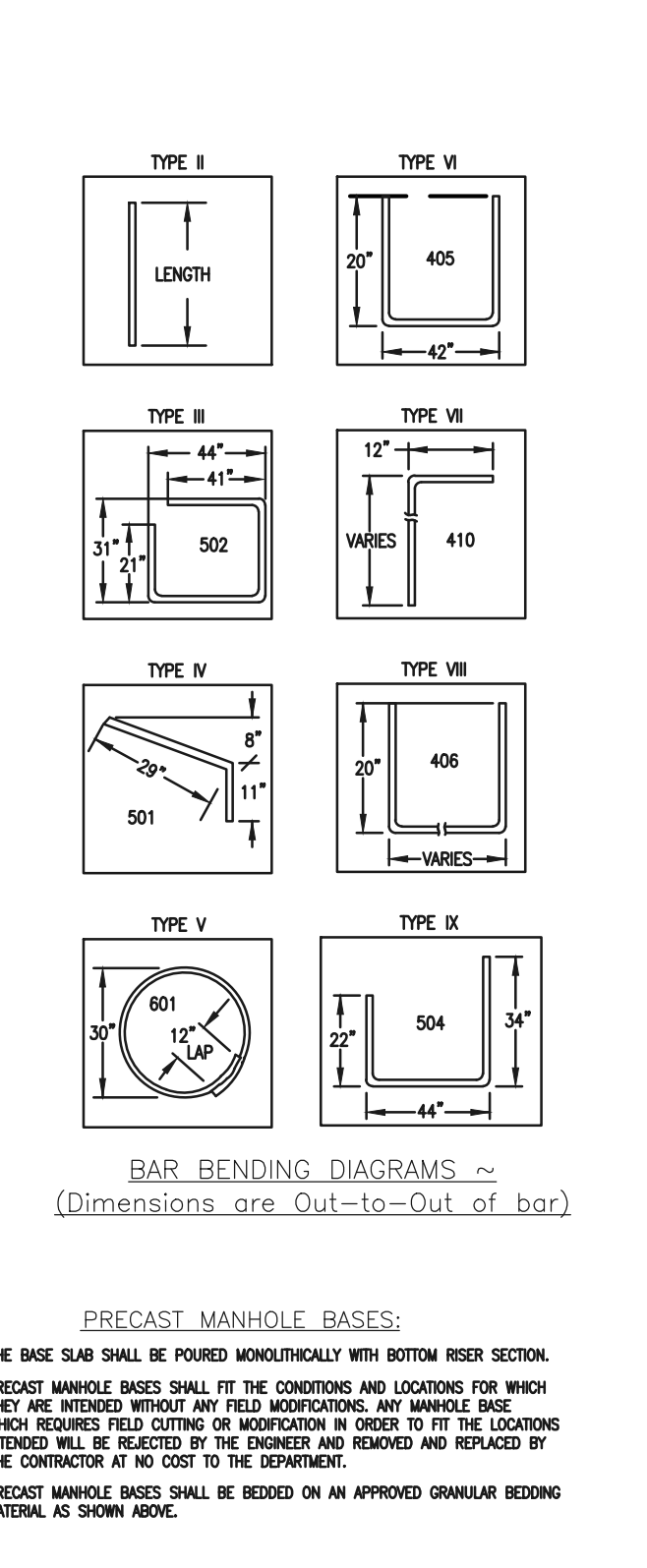
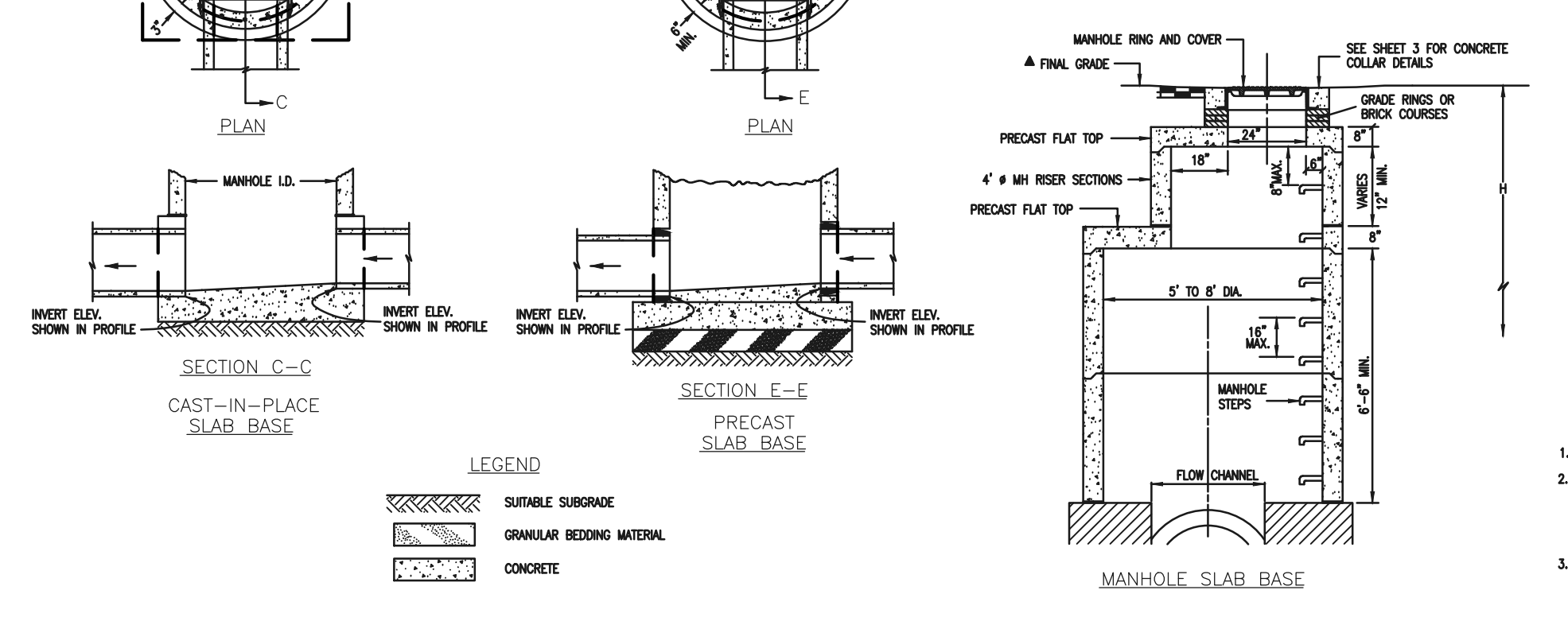
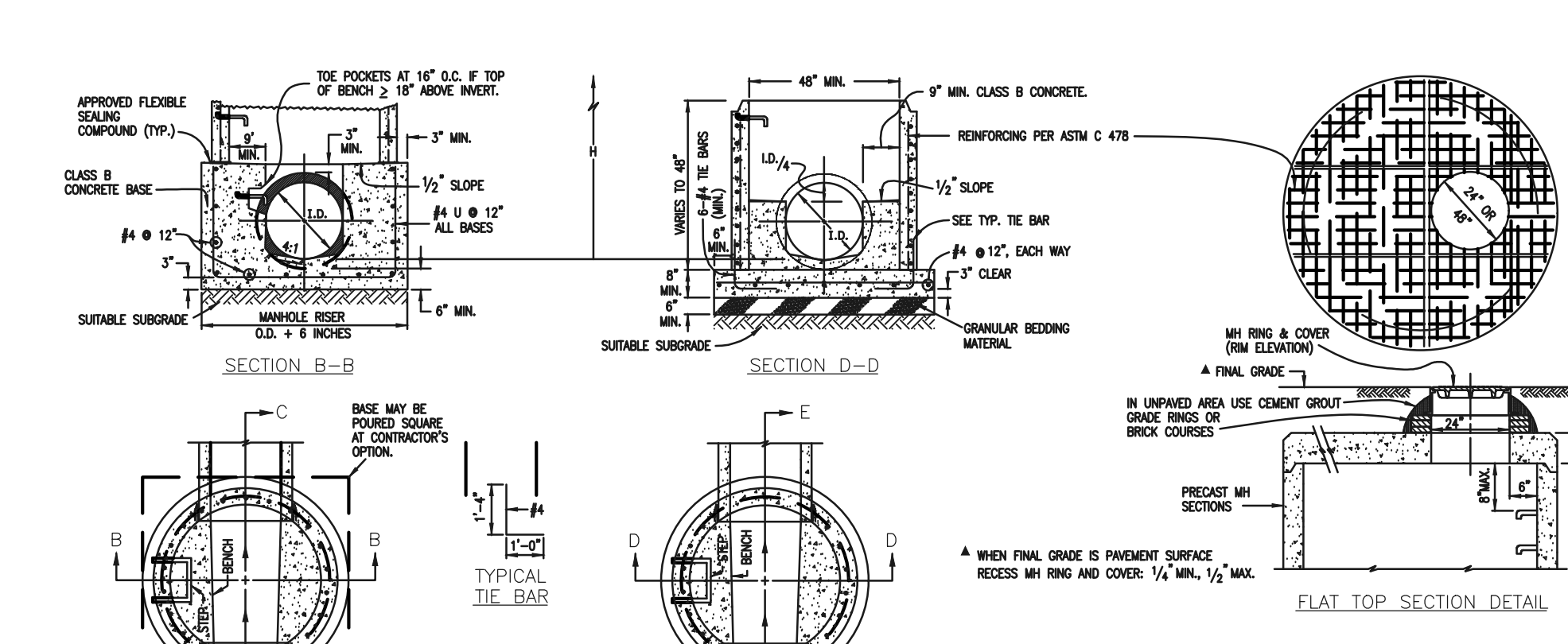
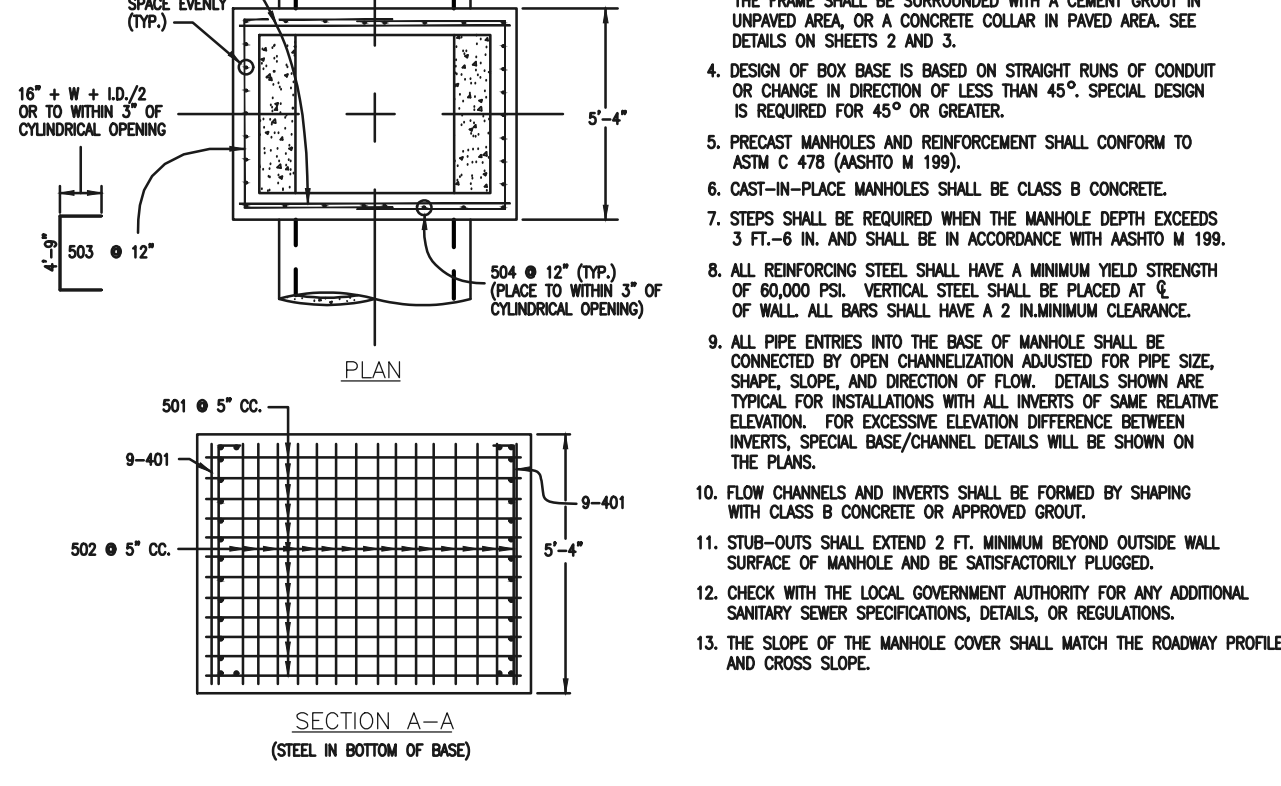
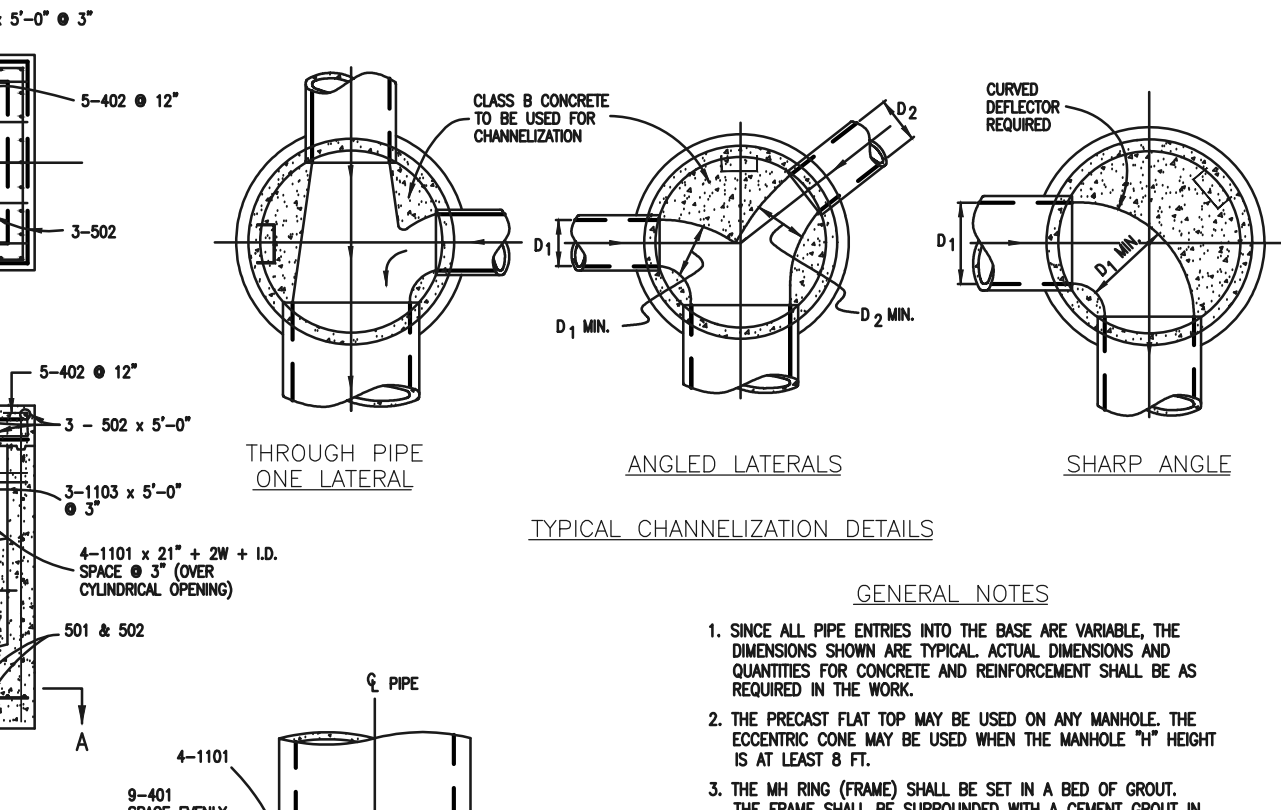
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CHECKED BY	(V) 1" = N/A	JOB NO.	1175.60	

CLASSIC CONSULTING



QUANTITIES FOR CONCRETE MANHOLE BOX BASE

MARK	SIZE	TYPE	WT. #/FT.	FORMS	LD.	FORMULAS
401	4	I	0.668	18	18	401 BAR LENGTH = 32*W+L+D.
402	4	III	0.668	18	18	402 BAR LENGTH = L+D+2W
501	5	I	1.043	17	17	501 BAR LENGTH = 24*W+L+2W
502	5	I	1.043	22	22	502 NUMBER BARS REQ'D. = 3 + (24*LD+2W+L)/5
503	5	II	1.043	16	16	503 NUMBER BARS REQ'D. = 2(34*LD+2W+L)
504	5	I	1.043	17	17	504 NUMBER BARS REQ'D. = 2(26*LD+2W+L)
1101	11	I	5.313	4	4	1101 BAR LENGTH = 32*W+L+D.
1102	11	I	5.313	4	4	1102 BAR LENGTH = 21*W+L+2W
1103	11	I	5.313	3	3	1103 BAR LENGTH = 11*W+L+D/2



CDOT MANHOLES
STD. PLAN NO: M-604-20

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

MARK	DIA. IN.	O.C. SPACING	TYPE	ALL INLETS			INLETS, H ≥ 5'			INLETS, H < 5'		
				L=5'	L=10'	L=15'	L=5'	L=10'	L=15'	L=5'	L=10'	L=15'
401	11"	II	15	21	28	11	11	11	11	11	11	
402	11"	II	7	13	18	7	7	7	7	7	7	
403	9"	II	4	6	8	4	4	4	4	4	4	
405	6"	VI	11	6	10	21	6	10	11	6	10	
406	6"	VIII	7	8	10	7	8	10	7	8	10	
407	9"	II	3	5	7	3	5	7	3	5	7	
408	12"	II	3	5	7	3	5	7	3	5	7	
409	8"	II	6	5	10	6	10	10	6	15	10	
410	11"	VII	6	5	10	6	10	10	6	15	10	
411	11"	II	3	3	5	3	3	5	3	3	5	
412	11"	II	3	3	5	3	3	5	3	3	5	
413	9"	II	7	7	10	7	10	10	7	15	10	
501	5 1/2"	IV	11	3	4	22	3	4	33	3	4	
502	5 1/2"	III	5	3	6	16	3	6	27	3	6	
503	5 1/2"	II	5	3	6	16	3	6	27	3	6	
504	5 1/2"	IX	5	3	6	16	3	6	27	3	6	
601	2 1/2"	V	2	8	10	2	8	10	2	8	10	
#B.5			1	5	10	1	10	10	1	15	10	

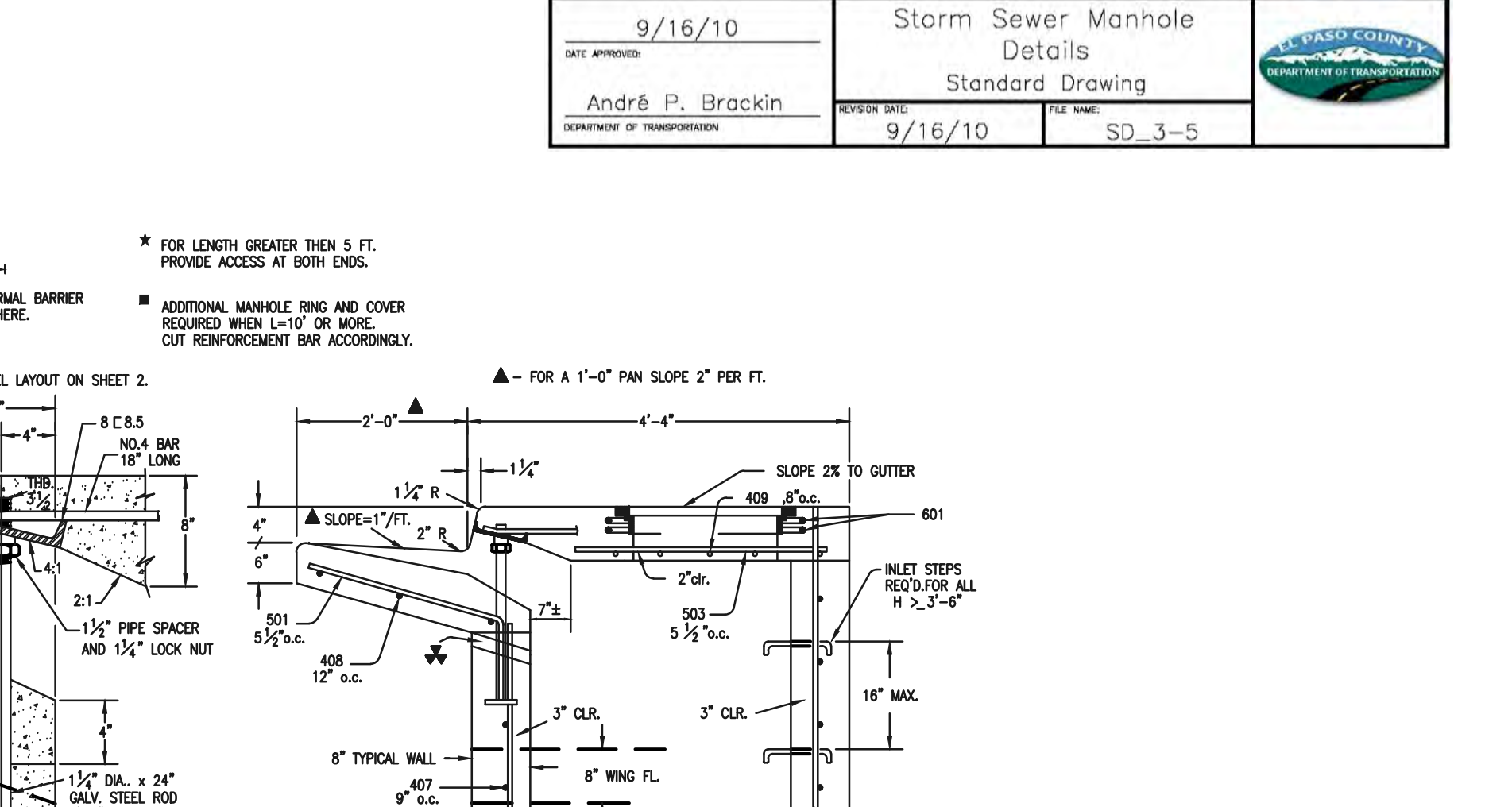
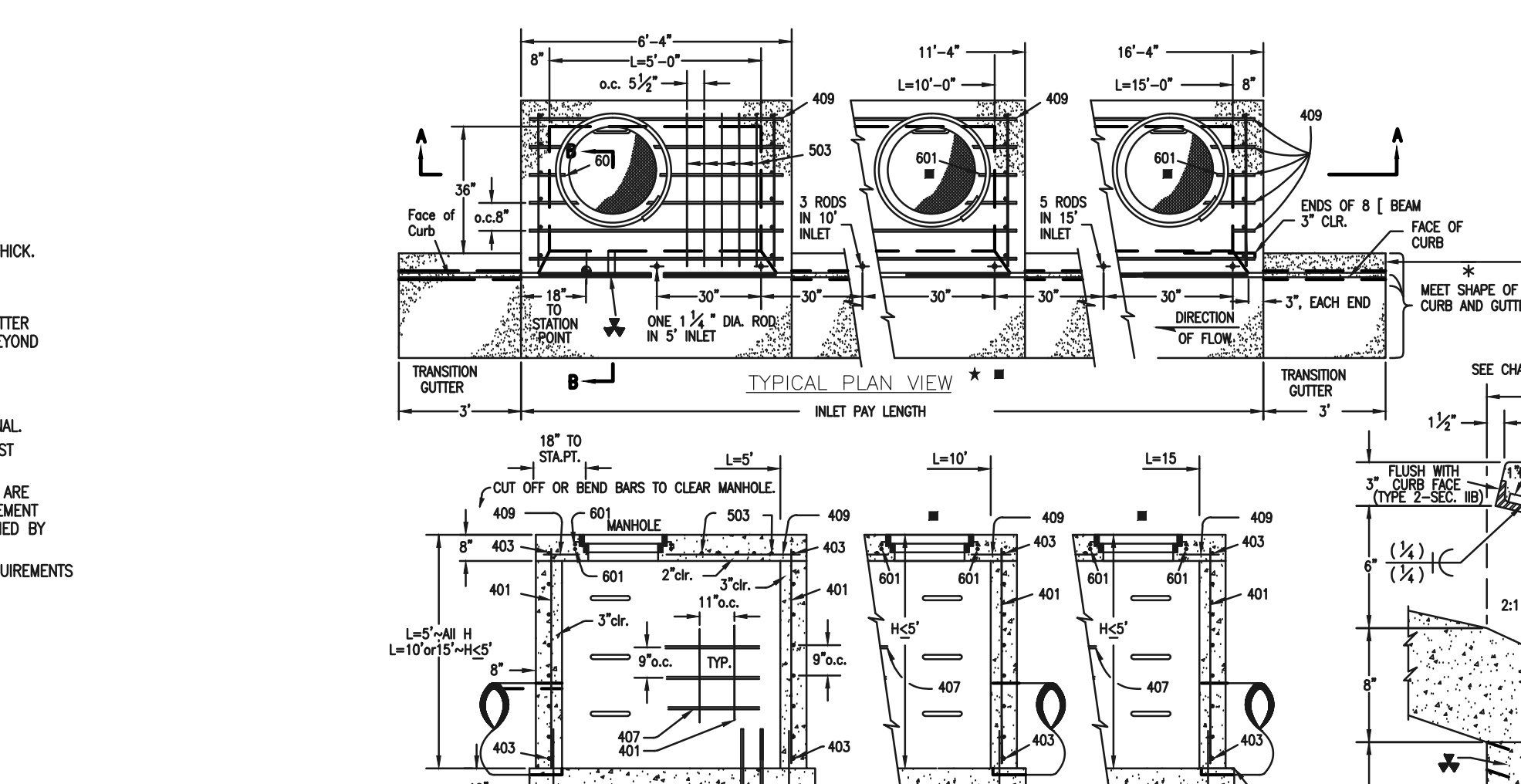
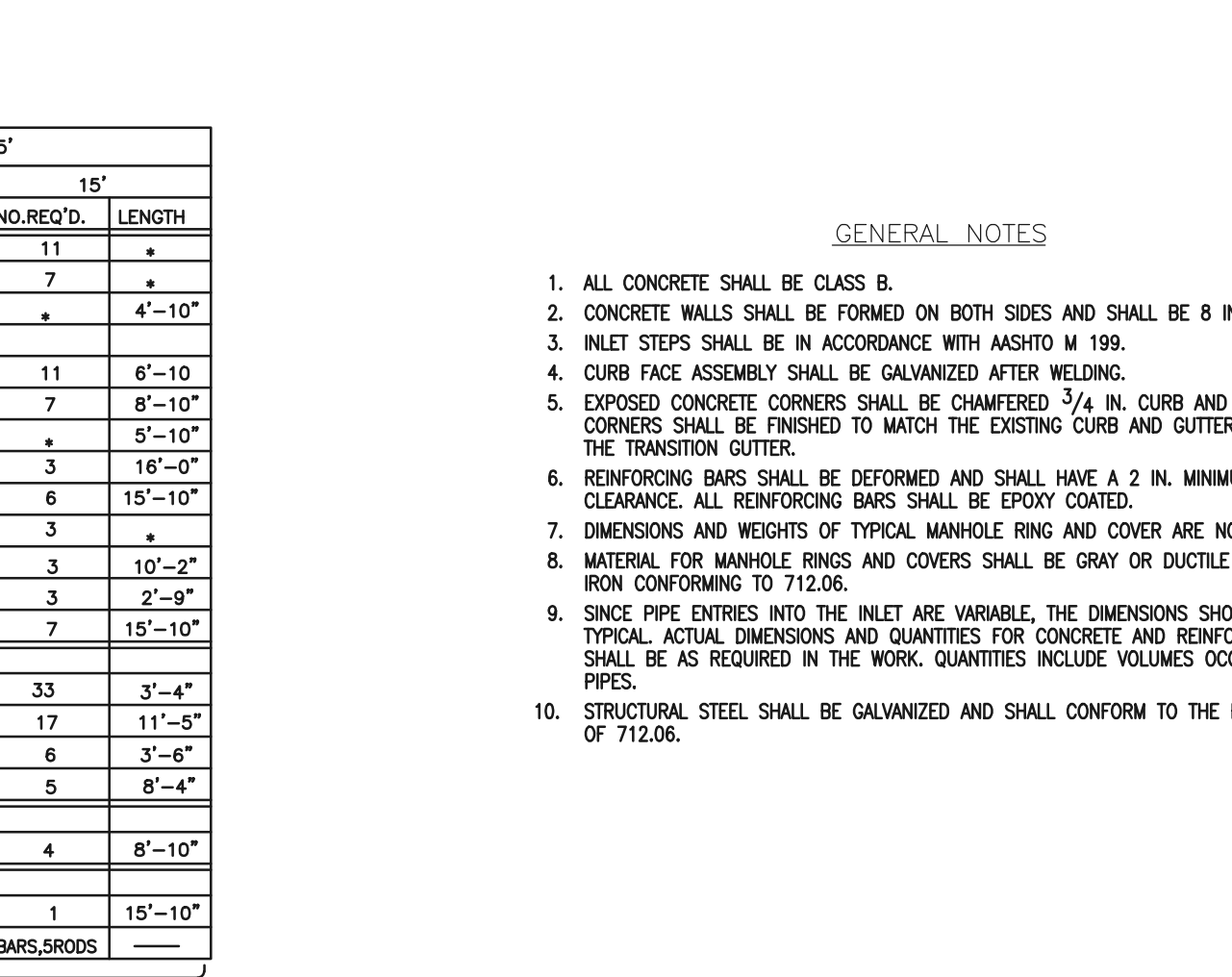
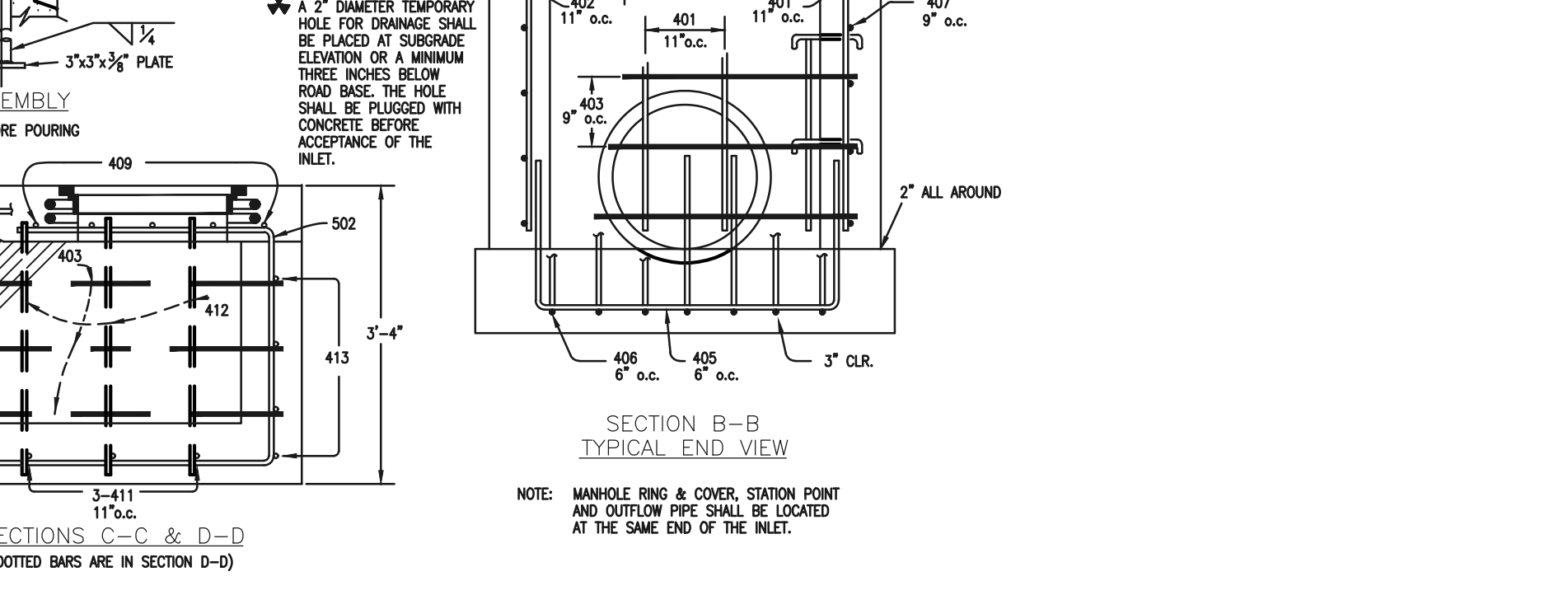
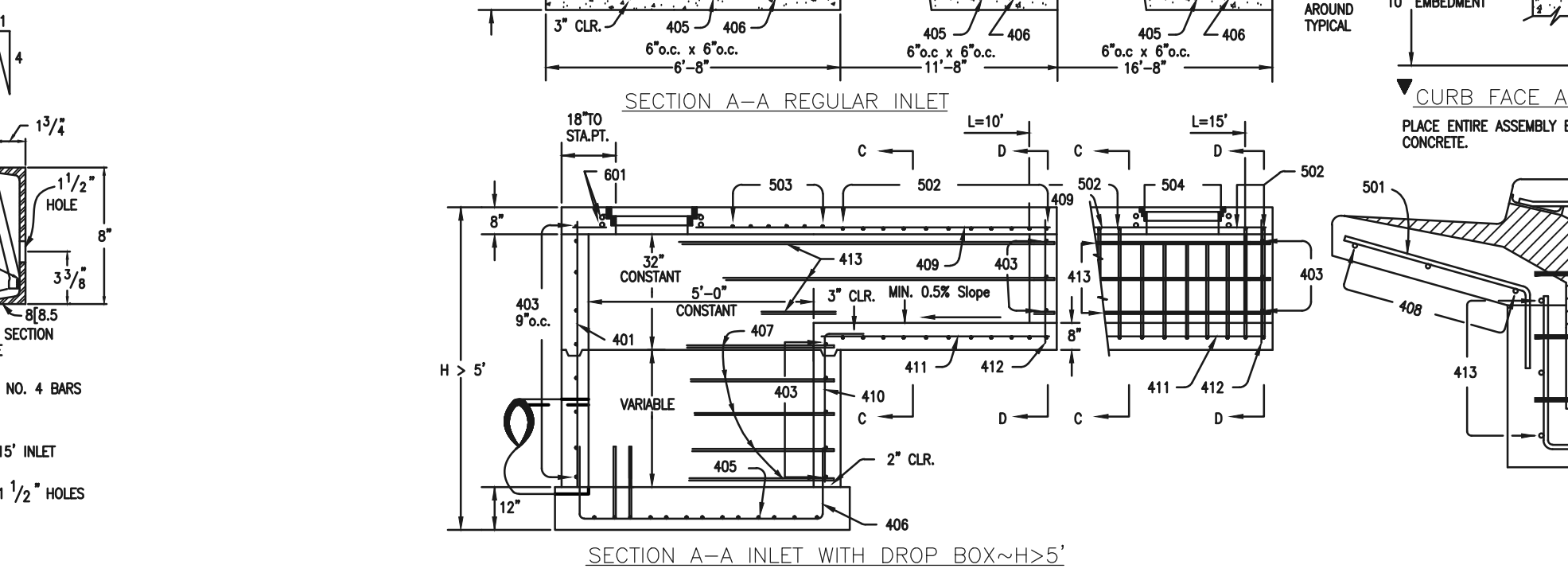
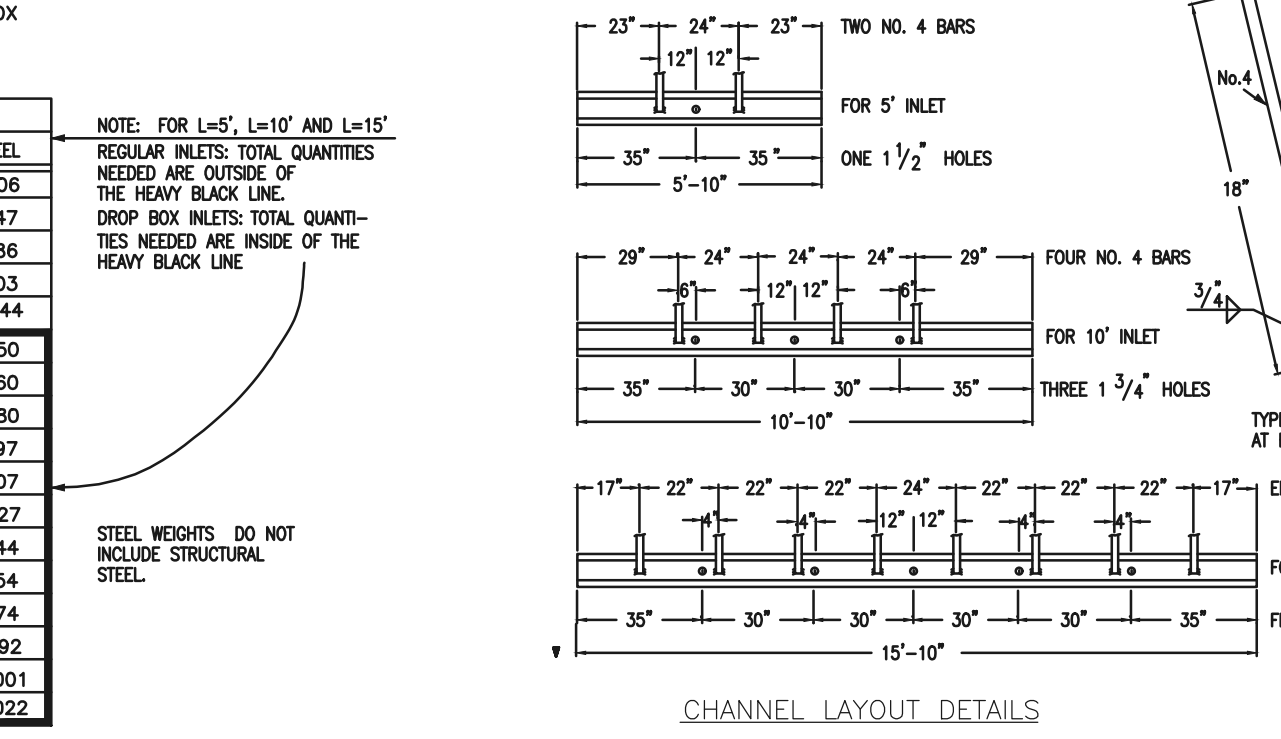


TABLE TWO ~ BARS AND QUANTITIES VARIABLE WITH "H"

H'	L=5'			L=10'			L=15'		
	NO. REQ'D.	CONC. LB.	ST. LB.	NO. REQ'D.	CONC. LB.	ST. LB.	NO. REQ'D.	CONC. LB.	ST. LB.
3'-0"	10	7	3.2	285	5.3	497	7.4	706	
3'-6"	10	7	3.4	305	5.7	528	7.9	747	
4'-0"	12	9	3.7	326	6.0	559	8.4	786	
4'-6"	12	9	3.9	334	6.4	571	8.8	803	
5'-0"	14	11	4.1	354	6.7	607	7.4	850	
5'-6"	16	13	4.4	375	7.0	637	7.8	880	
6'-0"	18	15	4.8	392	6.2	616	7.8	880	
6'-6"	18	15	4.8	402	6.4	637	7.8	880	
7'-0"	20	17	5.0	423	6.6	654	8.0	897	
7'-6"	20	17	5.3	430	6.9	664	8.3	907	
8'-0"	22	19	5.5	451	7.1	684	8.5	927	
8'-6"	24	21	5.7	471	7.3	702	8.7	944	
9'-0"	24	21	6.0	479	7.6	711	9.0	954	
9'-6"	26	23	6.2	499	7.8	732	9.2	974	
10'-0"	28	25	6.4	520	8.0	749	9.4	992	
10'-6"	28	25	6.7	527	8.3	759	9.7	1001	
11'-0"	30	27	6.9	547	8.5	779	9.9	1022	



CDOT TYPE R INLET
STD. PLAN NO: M-604-12

48 HOURS BEFORE YOU DIG,
CALL UTILITY LOCATORS
811
UTILITY NOTIFICATION CENTER OF COLORADO
IT'S THE LAW

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NO.	REVISION	DATE	REVIEW:
			PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
			KYLE R. CAMPBELL, COLORADO P.E. #29794

PCD FILE # SF-20-027

DESIGNED BY: MAL
SCALE: (H) 1" = N/A
DATE: 08/04/2020

DRAWN BY: MES
SCALE: (V) 1" = N/A
SHEET: 30 OF 30

CHECKED BY: []
JOB NO.: 1175.60

FOREST LAKES FILING NO. 6
CONSTRUCTION DRAWINGS
DETAILS SHEET

CLASSIC CONSULTING

619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903

(719) 785-0790
(719) 785-0799 (Fax)

WASTEWATER GENERAL NOTES:

- AT APPLICANTS EXPENSE, ALL DIP SHALL BE CATHODICALLY PROTECTED BY BONDING ALL JOINTS, POLY-WRAPPING THE PIPE, AND BY INSTALLING 17LB MAGNESIUM ANODES AT THE LOCATIONS SHOWN ON THE DRAWINGS.
- ALL FACILITIES SHALL BE INSTALLED PER DONALA WATER AND SANITATION DISTRICT PUBLIC UTILITY DESIGN AND CONSTRUCTION SPECIFICATIONS.
- APPLICANT'S DESIGN PLAN IS NOT ELIGIBLE FOR APPROVAL UNTIL DONALA WATER AND SANITATION DISTRICT HAS APPROVED ANY REQUIRED BYPASS PUMPING PLAN OR FLOW MANAGEMENT PLAN. THE CONTRACTOR SHALL HAVE 100% REDUNDANT PUMPING CAPACITY WITH TWENTY FOUR (24) HOUR SUPERVISION DURING ALL PUMPING OPERATIONS.
- CONTRACTOR SHALL LOCATE AND RAISE ALL MANHOLES LOCATED WITHIN THE PROJECT LIMITS. IF THE MANHOLE IS IN POOR CONDITION OR IF THE DISTANCE BETWEEN THE RING/COVER AND CONE OF THE MANHOLE EXCEEDS THE WASTEWATER STANDARDS, THE CONTRACTOR MAY BE REQUIRED TO REPLACE PART OR ALL OF THE EXISTING MANHOLE.
- FOR ALL MANHOLES TO BE ABANDONED, CONTRACTOR SHALL: PLUG THE "IN" AND "OUT" INVERTS WITH A WATERTIGHT MECHANICAL PLUG AND GROUTED, REMOVE AND DISPOSE OF THE CONE SECTION, REMOVE THE RING AND COVER RETURN THEM TO SPRINGS UTILITIES, AND FILL THE MANHOLE WITH COMPACTED FILL.
- IF AN ABANDONED WASTEWATER LINE FALLS UNDER A PROPOSED STRUCTURE, CONTRACTOR SHALL REMOVE IT OR GROUT IT FULL.
- IF FIELD CONDITIONS ARE FOUND TO BE DIFFERENT THAN SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE INSPECTOR AND THE ENGINEER IMMEDIATELY SO THAT APPLICANT CAN TAKE APPROPRIATE ACTION.
- APPLICANT IS RESPONSIBLE FOR ANY DAMAGE TO THE WASTEWATER MAINS AS A RESULT OF HIS AGENTS ACTIONS. THE CONTRACTOR SHALL MAKE ALL THE REQUIRED REPAIRS IMMEDIATELY TO THE SATISFACTION OF THE INSPECTOR.
- ALL PIPELINES 10" DIAMETER AND LARGER AND PIPELINES AT A GRADE OF 1.04% OR LESS SHALL BE "AS-BUILT" SURVEYED. "AS-BUILT" DRAWING(S) AND ELECTRONIC FILE SHALL BE SUBMITTED TO DONALA WATER & SANITATION DISTRICT FOR APPROVAL.
- FOR ALL SEPTIC TANKS TO BE ABANDONED, CONTRACTOR SHALL PLUG THE INVERTS, REMOVE THE LID, AND FILL THE TANK WITH APPROVED (GRANULAR) COMPACTED FILL.
- AT APPLICANT'S SOLE EXPENSE, CONTRACTOR SHALL NOTIFY THE EL PASO COUNTY DEPARTMENT OF HEALTH WHEN ANY SEPTIC TANK IS ABANDONED AND OBTAIN ALL NECESSARY FEES AND PERMITS.
- THE CONTRACTOR WILL VERIFY AND RECONNECT ALL PRE-EXISTING SERVICE CONNECTIONS SUBJECT TO THE INSPECTOR'S APPROVAL. THE CONTRACTOR SHALL NOTE THAT SERVICES OTHER THAN THOSE FROM ADJACENT STRUCTURES MAY BE ENCOUNTERED.
- CONTRACTOR SHALL INSTALL TRACER WIRE WITH ALL WASTEWATER MAINS AND SERVICE LINES (FROM THE WASTEWATER MAIN TO THE BUILDING STRUCTURE).
- NO TREES ARE PERMITTED WITHIN FIFTEEN FEET (15') OF A WASTEWATER MAIN OR INTERCEPTOR.
- DONALA WATER & SANITATION DISTRICT ACCEPTS NO RESPONSIBILITY FOR WASTEWATER STUB-OUTS. OWNER/DEVELOPER(S) UTILIZING EXISTING STUB-OUTS SHALL BE RESPONSIBLE FOR ENSURING THAT THE STUB-OUT, CONNECTION, TRANSITION AND SUBSEQUENT EXTENSION MEETS ALL CURRENT DONALA WATER AND SANITATION DISTRICT PUBLIC UTILITY DESIGN AND CONSTRUCTION SPECIFICATIONS.
- DESIGN FEATURES FOR DEEP MANHOLES. MANHOLES WHICH ARE MORE THAN SIXTEEN (16) FEET FROM THE FINISHED COVER TO THE PIPE INVERT SHALL BE CONSIDERED DEEP MANHOLES SUBJECT TO SPECIAL DESIGN. THE ITEMS GIVEN BELOW SHALL BE GIVEN SPECIAL ATTENTION AND SUBJECT TO APPROVAL BY THE DISTRICT.
 - INTERMEDIATE PLATFORMS CONSTRUCTED WITH MANHOLE SHAFT OFFSETS SHALL BE GOVERNED BY THE OSHA REGULATIONS. REGARDLESS OF THE APPLICATION OF OSHA REGULATIONS, AND OFFSET INTERMEDIATE PLATFORM WILL BE REQUIRED ON ANY MANHOLE GREATER THAN 24- FEET IN DEPTH AT NO MORE THAN 12-FOOT INTERVALS.
 - STRUCTURAL INTEGRITY OF PRECAST OR CAST-IN-PLACE CONCRETE STRUCTURES SHALL BE VERIFIED AND CERTIFIED BY THE RESPONSIBLE DESIGN PROFESSIONAL FOR ALL MANHOLES IN EXCESS OF 16- FEET IN DEPTH. SPECIFIC ATTENTION SHALL BE GIVEN TO CONCRETE THICKNESS, REINFORCING DESIGN AND CONCRETE STRENGTH.

FOR PIPELINES 1.04% OR LESS GRADE THE FOLLOWING ADDITIONAL INSTALLATION PRACTICES SHALL BE USED.

- THE BOTTOM OF THE PIPE TRENCH SHALL BE PLATE TAMPED PRIOR TO THE INSTALLATION OF ANY PIPE OR BEDDING MATERIAL.
- SELECT BEDDING MATERIAL SHALL BE INSTALLED PER CHAPTER 2 OF THE "COLORADO SPRINGS UTILITIES, WASTEWATER STANDARDS".
- TRENCH BACKFILL MATERIAL SHALL BE INSTALLED PER CHAPTER 2 OF THE "COLORADO SPRINGS UTILITIES, WASTEWATER STANDARDS".
- PIPELINES FOR LESS THAN 1.04% SHALL BE "AS CONSTRUCTED" BY A LICENSED SURVEYOR OR A APPOINTED REPRESENTATIVE UNDER HIS DIRECT SUPERVISION. THE "AS CONSTRUCTED" MANHOLE INVERTS SHALL BE RECORDED ON THE RECORD DRAWING(S) SUBMITTED TO DONALA DISTRICT'S RECORDS MANAGEMENT.

WATER PLAN NOTES:

THE CONTRACTOR SHALL NOTIFY DONALA WATER AND SANITATION DISTRICT OFFICE (719) 488-3603 A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION

GENERAL:

- ALL CONSTRUCTION METHODS AND MATERIALS SHALL MEET DONALA WATER & SANITATION DISTRICT PUBLIC UTILITY DESIGN AND CONSTRUCTION SPECIFICATIONS.
- THE CONTRACTOR SHALL OBTAIN LOCATES PRIOR TO ANY EXCAVATION
- DONALA WATER & SANITATION DISTRICT DOES NOT GUARANTEE THE ACCURACY OF LOCATIONS OF EXISTING PIPELINES, HYDRANTS, VALVES AND SERVICE LINES. IF FIELD CONDITIONS ARE FOUND TO BE DIFFERENT THAN SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE INSPECTOR AND THE ENGINEER OF RECORD IMMEDIATELY.
- NO TREES OR STRUCTURES ARE PERMITTED WITHIN FIFTEEN FEET (15') OF A WATER MAIN
- THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY FACILITIES AS A RESULT OF HIS ACTIONS. THE CONTRACTOR SHALL MAKE ALL THE REQUIRED REPAIRS IMMEDIATELY TO THE SATISFACTION OF DONALA WATER AND SANITATION DISTRICT.
- ALL FIELD STAKING SHALL COMPLY WITH THE DONALA WATER & SANITATION DISTRICT PUBLIC UTILITY DESIGN AND CONSTRUCTION SPECIFICATIONS.
- THE CONTRACTOR SHALL MAKE THEIR BEST EFFORT TO ENSURE THAT WATER SERVICE TO ADJACENT PROPERTIES IS MAINTAINED DURING CONSTRUCTION.
- CORROSION PROTECTION MEASURES SHALL COMPLY WITH THE DONALA WATER & SANITATION DISTRICT PUBLIC UTILITY DESIGN AND CONSTRUCTION SPECIFICATIONS.
- NO SERVICE TAPS WILL BE ALLOWED UNTIL THE MAIN IS EXTENDED TO THE NEXT MAIN LINE VALVE
- NO SERVICE TAPS SHALL BE MADE UNTIL AUTHORIZATION HAS BEEN GRANTED BY THE DONALA WATER AND SANITATION DISTRICT INSPECTOR.
- ALL BENDS SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION AND THE STATIONING ON THE FIELD STAKES SHALL MATCH THE STATIONING ON THE PLANS.
- FIELD MODIFICATIONS TO A FIRE SERVICE LINE OR FIRE HYDRANT DESIGN OR LOCATION MAY NEED TO BE APPROVED BY THE APPLICABLE AGENCIES, AS REQUIRED BY THE INSPECTOR.
- REUSE OR SALVAGE OF ANY MATERIAL IS LEFT TO THE DISCRETION OF THE DONALA WATER AND SANITATION DISTRICT INSPECTOR.
- ALL TRENCH BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH THE DONALA WATER & SANITATION DISTRICT PUBLIC UTILITY DESIGN AND CONSTRUCTION SPECIFICATIONS.

BASIS OF BEARINGS:

A PARCEL OF LAND LYING WITHIN THE SOUTH HALF OF THE SECTION 27 AND THE SOUTH HALF OF SECTION 28, TOWNSHIP 11 SOUTH, RANGE 67 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEARINGS ARE BASED ON THE NORTHEAST RIGHT-OF-WAY LINE OF FOREST LAKES DRIVE SHOWN IN FOREST LAKES FILING NO. 1, MONUMENTED WITH A #4 REBAR AND YELLOW PLASTIC CAP, LS 4842 AND ASSUMED TO BEAR S59°33'25"E.

BENCHMARKS:

- THE SOUTHWESTERLY CORNER OF LOT 15 AS PLATTED IN FOREST LAKES FILING NO. 1 BEING MONUMENTED BY A NO. 4 REBAR AND RED PLASTIC SURVEYORS CAP STAMPED "ROCKWELL PLS 19586" ELEVATION = 7039.42
- THE NORTHEASTERLY CORNER OF LOT 2 AS PLATTED IN FOREST LAKES FILING NO. 1 BEING MONUMENTED BY A NO. 4 REBAR AND RED PLASTIC SURVEYORS CAP STAMPED "ROCKWELL PLS 19586" ELEVATION = 6966.24

SHEET INDEX

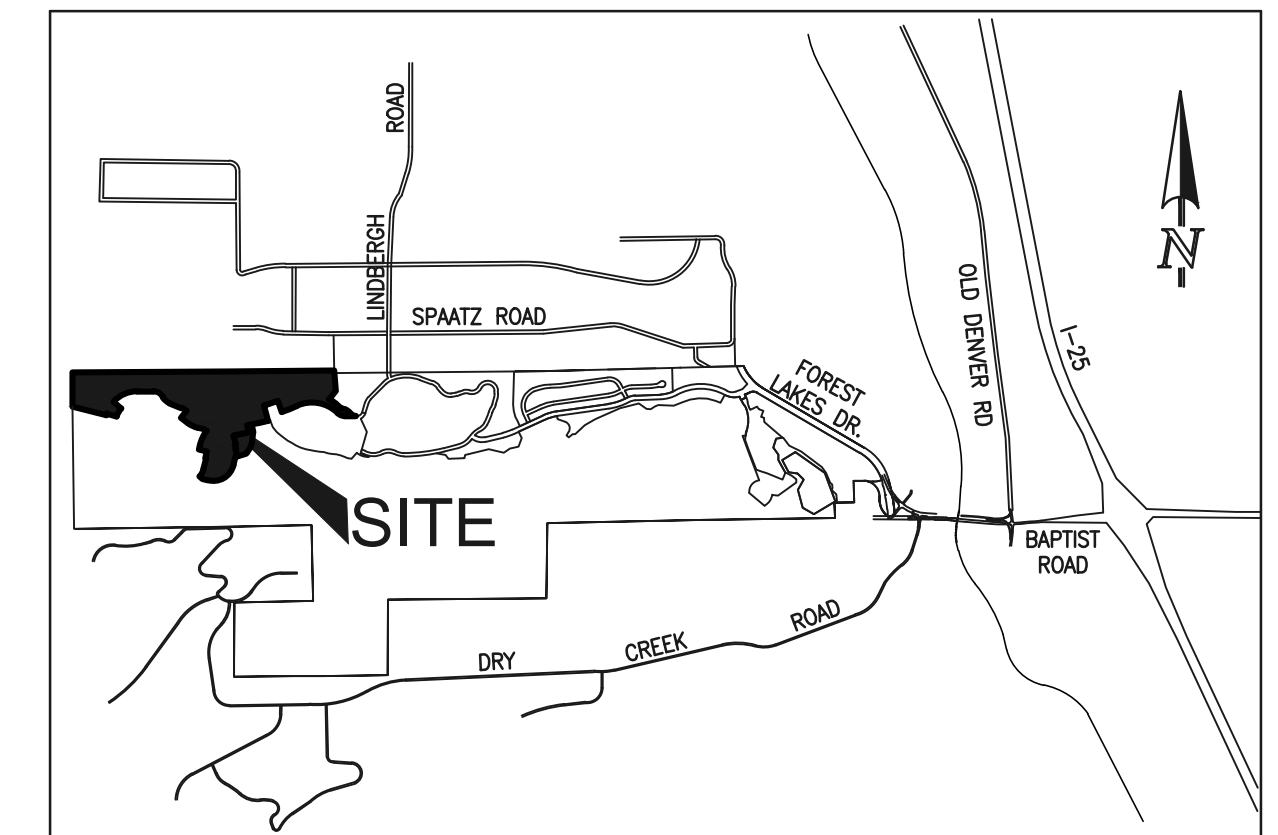
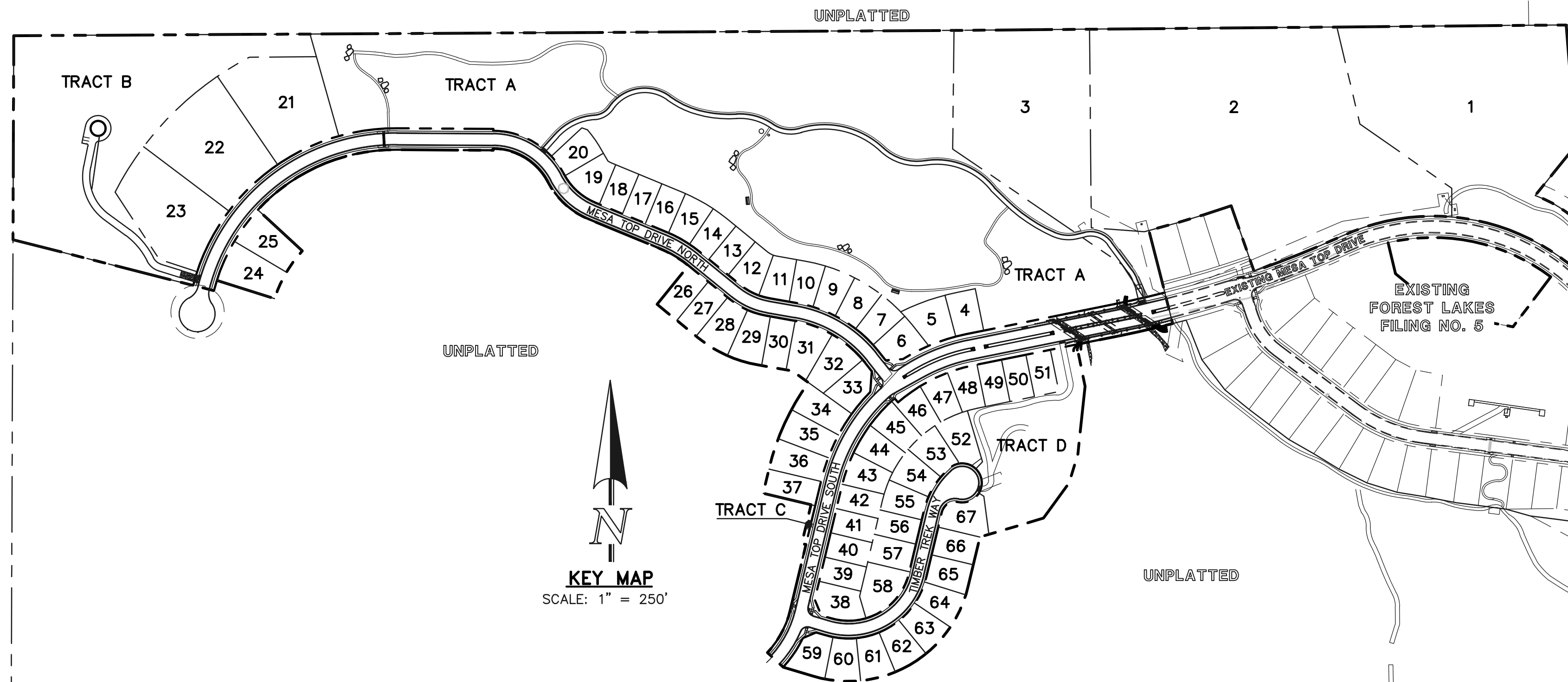
TITLE SHEET	SHEET 1 OF 12
SANITARY SEWER PLAN - MESA TOP DR. SOUTH STA: 1+00.00 - END	SHEET 2 OF 12
SANITARY SEWER PLAN - SANITARY SEWER OUTFALL STA: 1+00.00 - END & MESA TOP DR. NORTH STA: 1+00.00 - STA: 9+00.00	SHEET 3 OF 12
SANITARY SEWER PLAN - MESA TOP DR. NORTH STA: 9+00.00 - END	SHEET 4 OF 12
SANITARY SEWER PLAN - TIMBER TREK WAY STA: 1+00.00 - END	SHEET 5 OF 12
PUBLIC 12"/8" PVC WATER SYSTEM PLAN	SHEETS 6-9 OF 12
UTILITY SERVICE PLAN	SHEETS 10-11 OF 12
DETAIL SHEET	SHEET 12 OF 12

FOREST LAKES FILING NO. 6

COUNTY FO EL PASO, STATE OF COLORADO

UTILITY CONSTRUCTION PLANS

AUGUST 2020
(SECTIONS 27 AND 28, TOWNSHIP 11 SOUTH, RANGE 67 WEST)



AGENCIES:

- DEVELOPER:** FOREST LAKES RESIDENTIAL DEVELOPMENT, LLC
6385 CORPORATE DRIVE, SUITE 200
COLORADO SPRINGS, CO 80919
MR. JIM BOULTON (719) 592-3259
- CIVIL ENGINEER:** CLASSIC CONSULTING ENGINEERS & SURVEYORS
619 N. CASCADE AVENUE, SUITE 200
COLORADO SPRINGS, CO 80903
MR. KYLE R. CAMPBELL, P.E. (719) 785-2800
- COUNTY ENGINEERING:** DEVELOPMENT SERVICES DEPARTMENT
2880 INTERNATIONAL CIRCLE
COLORADO SPRINGS, CO 80910
MR. GILBERT LaFORCE, (719) 520-7945
- WATER & SANITATION DISTRICT:** FOREST LAKES METROPOLITAN DISTRICT
2 N. CASCADE AVENUE, SUITE 1280
COLORADO SPRINGS, CO 80903
MS. ANN NICHOLS, (719) 633-9500
- FIRE DISTRICT:** TRI-LAKES MONUMENT FIRE PROTECTION DISTRICT
166 SECOND STREET
MONUMENT, COLORADO 80132
(719) 484-0911
- GAS COMPANY:** BLACK HILLS ENERGY
18965 BASE CAMP ROAD, A-7
MONUMENT, CO 80132
(888) 890-5554
- ELECTRIC COMPANY:** MOUNTAIN VIEW ELECTRIC
11140 E. WOODMEN ROAD
FALCON, COLORADO 80831
(719) 495-2283
- TELEPHONE COMPANY:** CENTURY LINK COMMUNICATIONS (LOCATORS) (800)-922-1987
A.T.&T. (LOCATORS) (719) 635-3674

APPROVALS:

DESIGN ENGINEER'S STATEMENT:

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 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 THESE DETAILED PLANS AND SPECIFICATIONS.

KYLE R. CAMPBELL, COLORADO P.E. #29794
FOR AND ON THE BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS

DATE

OWNER/DEVELOPER STATEMENT:

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

JIM BOULTON
FOREST LAKES RESIDENTIAL DEVELOPMENT, LLC
6385 CORPORATE DRIVE, SUITE 200
COLORADO SPRINGS, CO 80919

DATE

FOREST LAKES METROPOLITAN DISTRICT:

THESE CONSTRUCTION DOCUMENTS HAVE BEEN REVIEWED AND APPROVED FOR WATER MAIN, SANITARY SEWER MAIN AND UTILITY SERVICE CONSTRUCTION.

FOR AND ON BEHALF OF THE FOREST LAKES METRO. DISTRICT

DATE

TRI-LAKES MONUMENT FIRE PROTECTION DISTRICT:

ALL FIRE HYDRANTS SHALL BE INSTALLED ACCORDING TO THE TRI-LAKES MONUMENT FIRE PROTECTION DISTRICT SPECIFICATIONS. THE NUMBER OF FIRE HYDRANTS AND HYDRANT LOCATIONS AS SHOWN ON THIS WATER INSTALLATION PLAN ARE CORRECT AND ADEQUATE TO SATISFY THE FIRE PROTECTION REQUIREMENTS AS SPECIFIED BY THE TRI-LAKES MONUMENT FIRE PROTECTION DISTRICT.

FOR AND ON BEHALF OF TRI-LAKES MONUMENT FIRE PROTECTION DISTRICT

DATE

UTILITY SERVICE PLAN NOTES:

GENERAL:

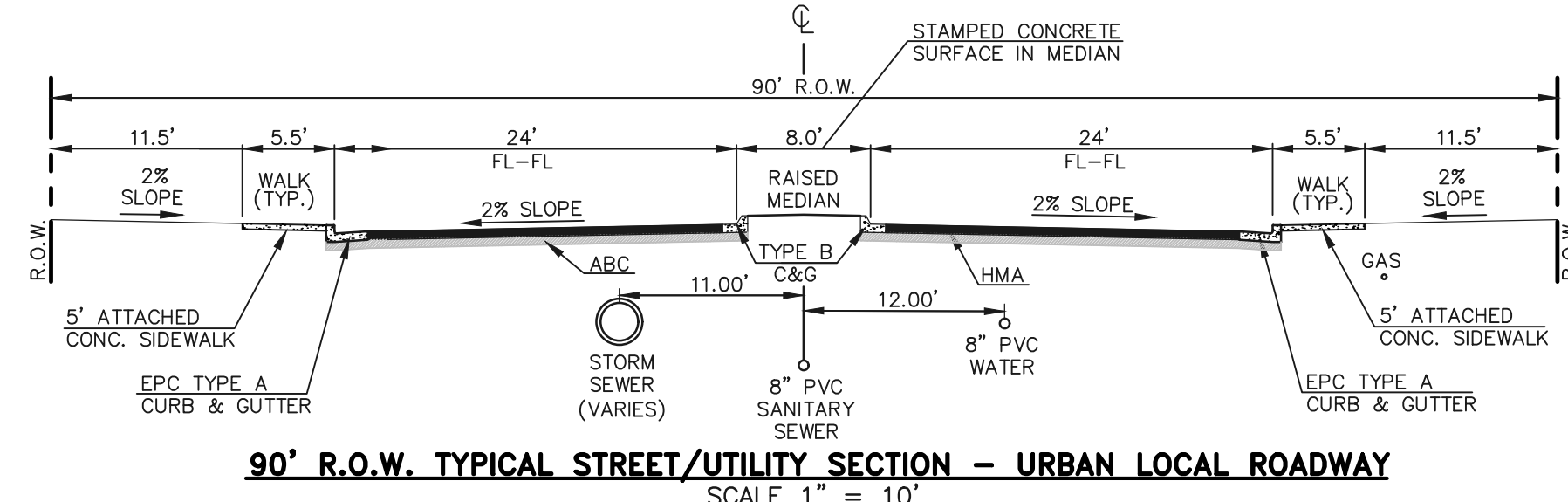
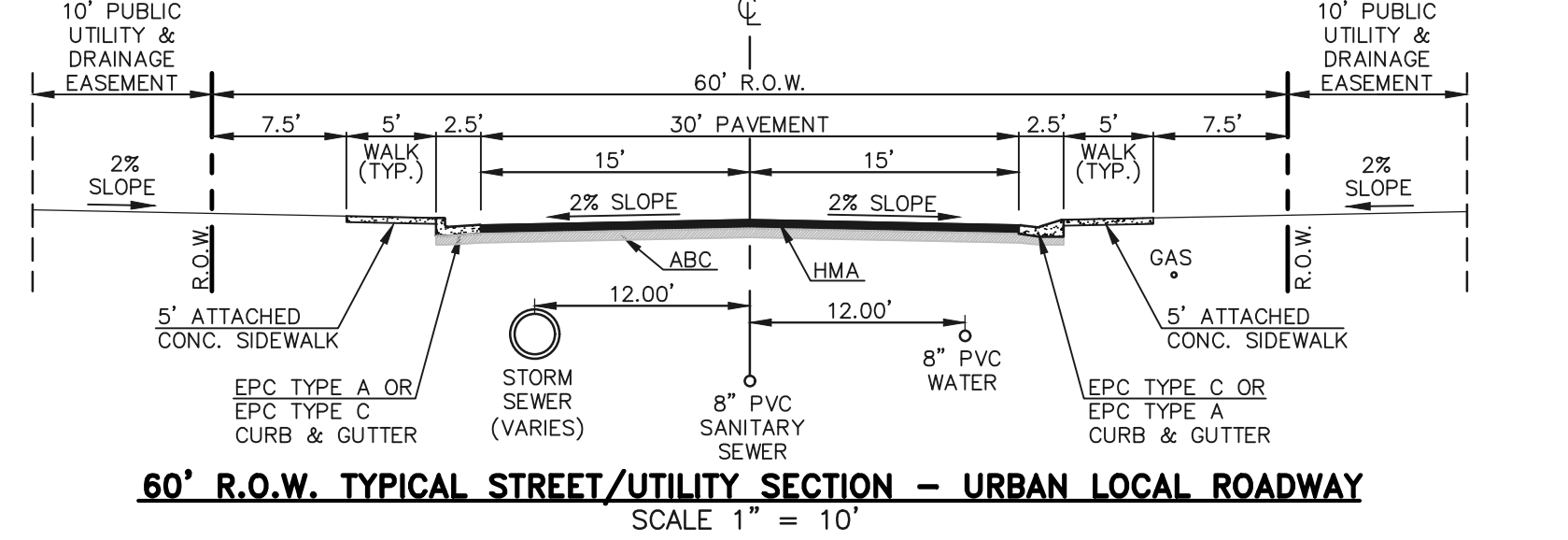
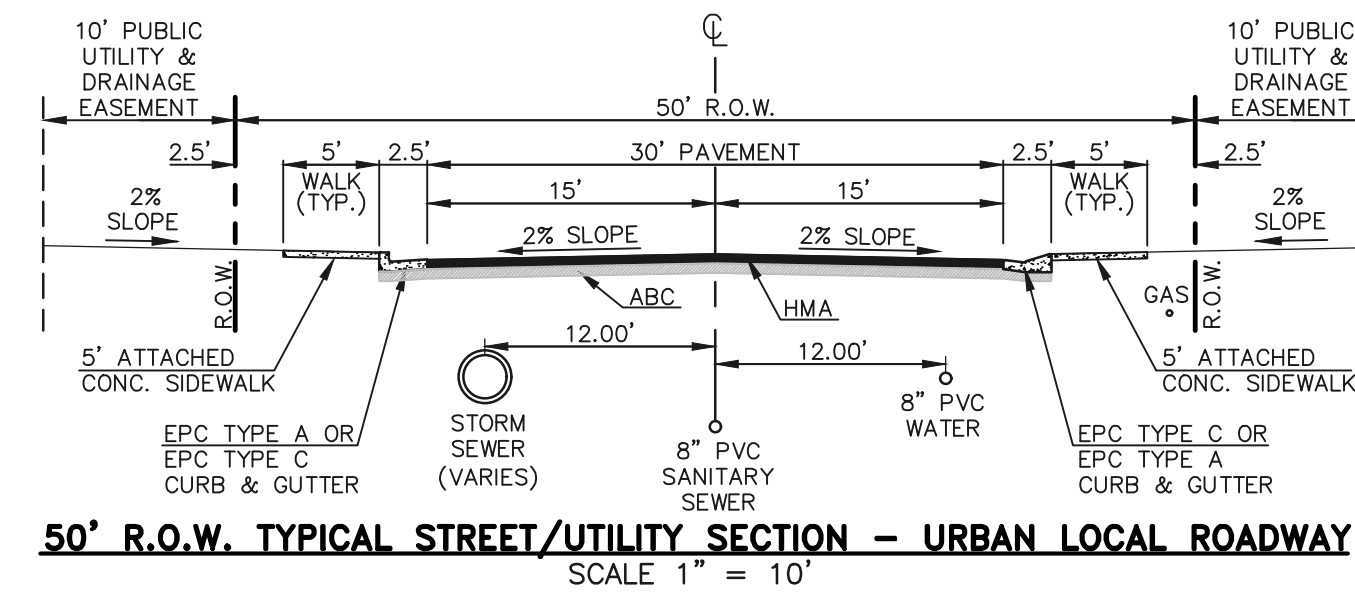
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- DONALA WATER & SANITATION DISTRICT DOES NOT GUARANTEE THE ACCURACY OF LOCATIONS OF EXISTING PIPELINES, HYDRANTS, VALVES AND SERVICE LINES. IF FIELD CONDITIONS ARE FOUND TO BE DIFFERENT THAN SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE INSPECTOR AND THE ENGINEER OF RECORD IMMEDIATELY.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY FACILITIES AS A RESULT OF HIS ACTIONS. THE CONTRACTOR SHALL MAKE ALL THE REQUIRED REPAIRS IMMEDIATELY TO THE SATISFACTION OF DONALA WATER AND SANITATION DISTRICT.
- ALL FIELD STAKING SHALL COMPLY WITH THE DONALA WATER & SANITATION DISTRICT PUBLIC UTILITY DESIGN AND CONSTRUCTION SPECIFICATIONS
- CORROSION PROTECTION MEASURES SHALL COMPLY WITH THE DONALA WATER & SANITATION DISTRICT PUBLIC UTILITY DESIGN AND CONSTRUCTION SPECIFICATIONS.
- ALL TRENCH BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH THE DONALA WATER & SANITATION DISTRICT PUBLIC UTILITY DESIGN AND CONSTRUCTION SPECIFICATIONS.

WASTEWATER SERVICE:

- SERVICE STUBS SHALL BE INSTALLED AS SHOWN, AND THE END OF THE STUB SHALL BE MARKED WITH A 2"x4"x12" STEEL OR WOODEN POST.
- SERVICES SHALL BE CONNECTED A MINIMUM OF FIVE FEET (5') FROM THE OUTSIDE EDGE OF ANY MANHOLE ON THE MAIN LINE AND SHALL MAINTAIN TWO FEET (2') OF SEPARATION BETWEEN TAPS CENTER TO CENTER.
- ALL CLEANOUTS SHALL BE THE SAME SIZE AS THE SERVICE LINE.
- THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY DEPARTMENT OF HEALTH AND ENVIRONMENT WHEN ANY SEPTIC TANK IS TO BE ABANDONED AND PAY ALL FEES NECESSARY TO OBTAIN A PERMIT.

WATER SERVICE:

- SERVICE STUBS SHALL BE INSTALLED WITH THE CURB STOP AS SHOWN AND SHALL NOT BE INSTALLED WITHIN DRIVEWAYS OR SIDEWALKS.
- SERVICE TAPS SHALL BE MADE A MINIMUM OF THREE FEET (3') FROM THE BELL OR APPURTENANCE ON THE WATER MAIN. TAPS SHALL BE A MINIMUM OF THREE FEET (3') APART ON THE SAME SIDE OF THE WATER MAIN AND A MINIMUM OF ONE-AND-A-HALF FEET (1.5') WHEN TAPS ARE MADE ON OPPOSITE SIDES OF THE WATER MAIN.
- ALL SERVICES FOR COMMERCIAL USE AND SOME RESIDENTIAL USES REQUIRE INSTALLATION OF A BACKFLOW PREVENTION ASSEMBLY IMMEDIATELY AFTER THE METER. THE BACKFLOW PREVENTION ASSEMBLY SHALL BE APPROVED BY THE FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH OF THE UNIVERSITY OF SOUTHERN CALIFORNIA (USC-FCCCHR) AND INSTALLED IN ACCORDANCE WITH THIS LISTING. DONALA WATER & SANITATION DISTRICT PUBLIC UTILITY DESIGN AND CONSTRUCTION SPECIFICATIONS.
- ALL TAPS ON DONALA WATER DISTRICT WATER MAINS SHALL BE PERFORMED BY THE CONTRACTOR.
- ANY ABANDONED SERVICES MUST BE PHYSICALLY DISCONNECTED AT THE MAIN. ANY NECESSARY REPAIRS TO THE MAIN AND/OR SHUT DOWN OF THE TAPPING VALVE SHALL BE AS DIRECTED BY DONALA WATER & SANITATION DISTRICT.



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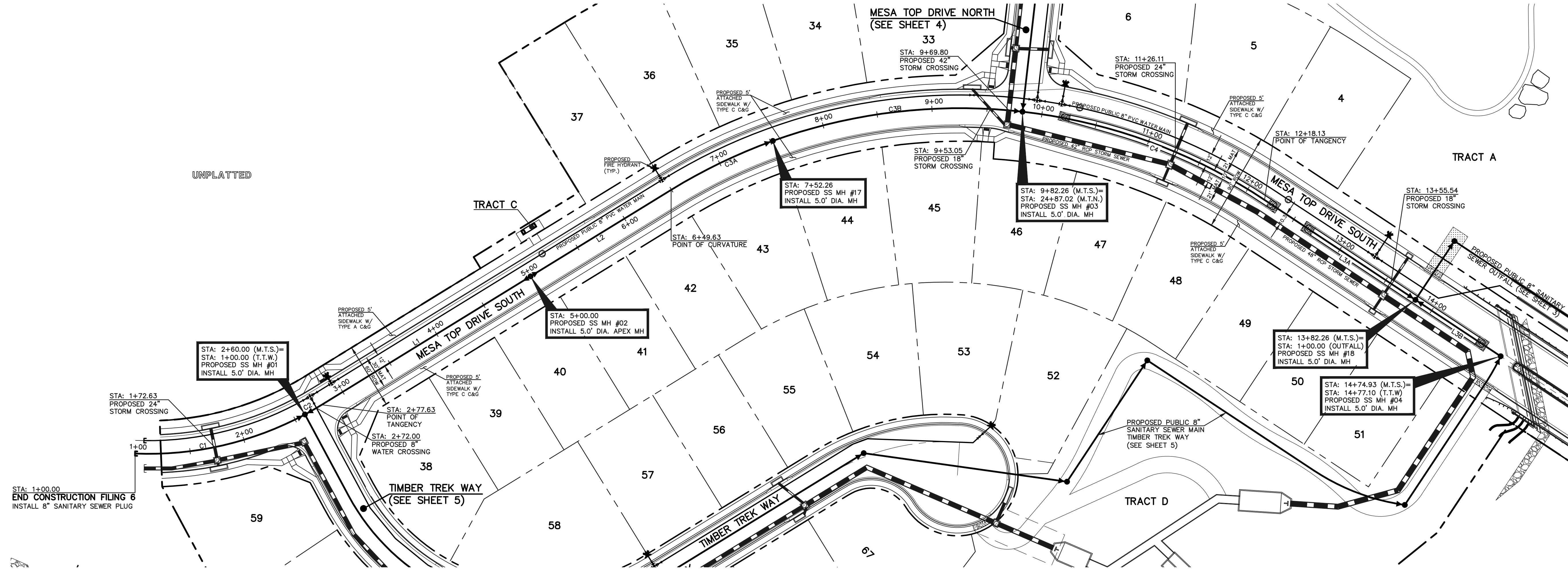
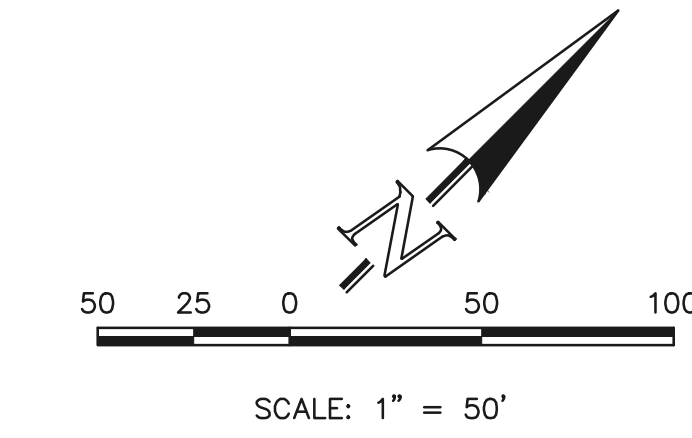
NO.	REVISION	DATE

REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE

619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719) 785-0790
(719) 785-0799 (fax)

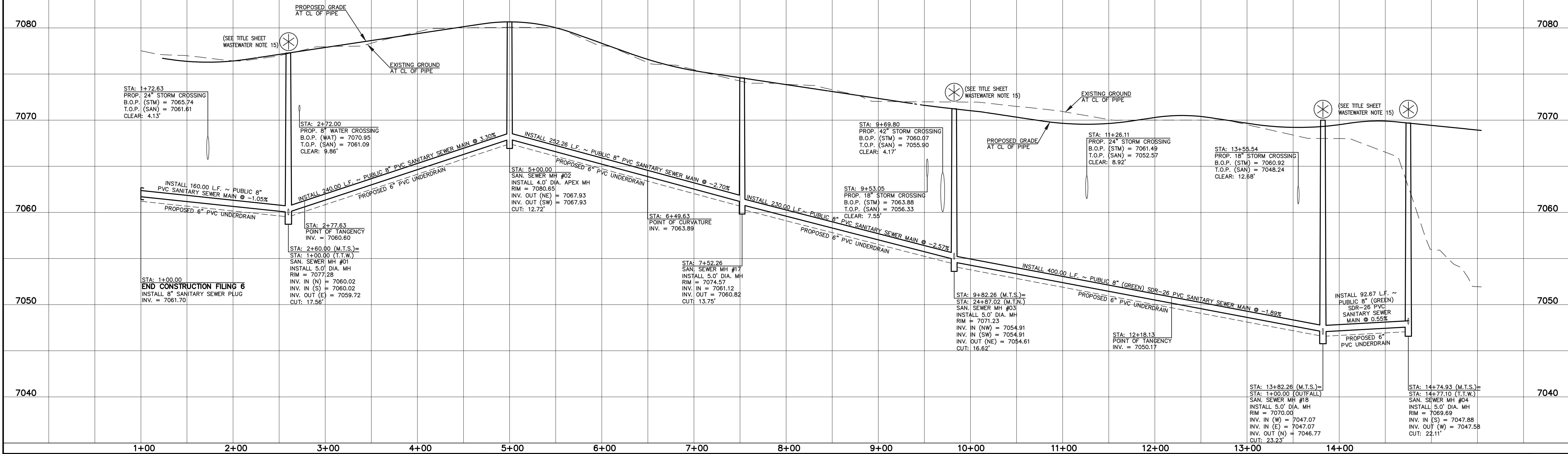
FOREST LAKES FILING NO. 6 UTILITY CONSTRUCTION PLANS TITLE SHEET			
DESIGNED BY	MES	SCALE	DATE 08/04/2020
DRAWN BY	MES	(H) 1" = N/A	SHEET 1 OF 12
CHECKED BY	MAL	(V) 1" = N/A	JOB NO. 1175.60



SANITARY LINE TABLE		
LINE	LENGTH	DIRECTION
L1	222.37	N13°23'21"E
L2	149.63	N13°23'21"E
L3A	164.13	N78°32'06"E
L3B	92.67	N78°32'06"E

SANITARY CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	160.00	300.00	30°33'28"
C2	17.63	300.00	03°21'59"
C3A	102.64	500.00	11°45'40"
C3B	230.00	500.00	26°21'22"
C4	235.87	500.00	27°01'43"

PUBLIC 8" PVC SANITARY SEWER MAIN - MESA TOP DRIVE SOUTH



LEGEND

	PROPOSED FIRE HYDRANT		EXISTING FIRE HYDRANT
	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED SANITARY SEWER MAIN		EXISTING SANITARY SEWER MAIN
	PROPOSED STORM SEWER		EXISTING STORM SEWER
	PROPOSED STORM INLET		EXISTING STORM INLET
	ROW/BOUNDARY LINE		EXISTING GAS MAIN
			EXISTING ELECTRIC

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NO.	REVISION	DATE

REVIEW:

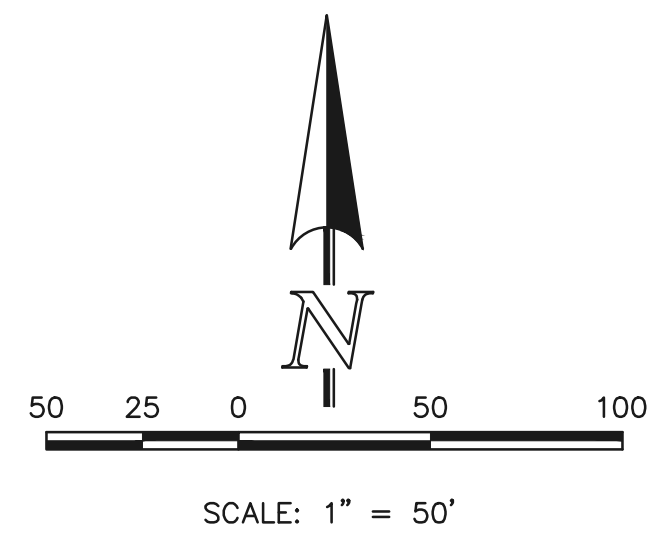
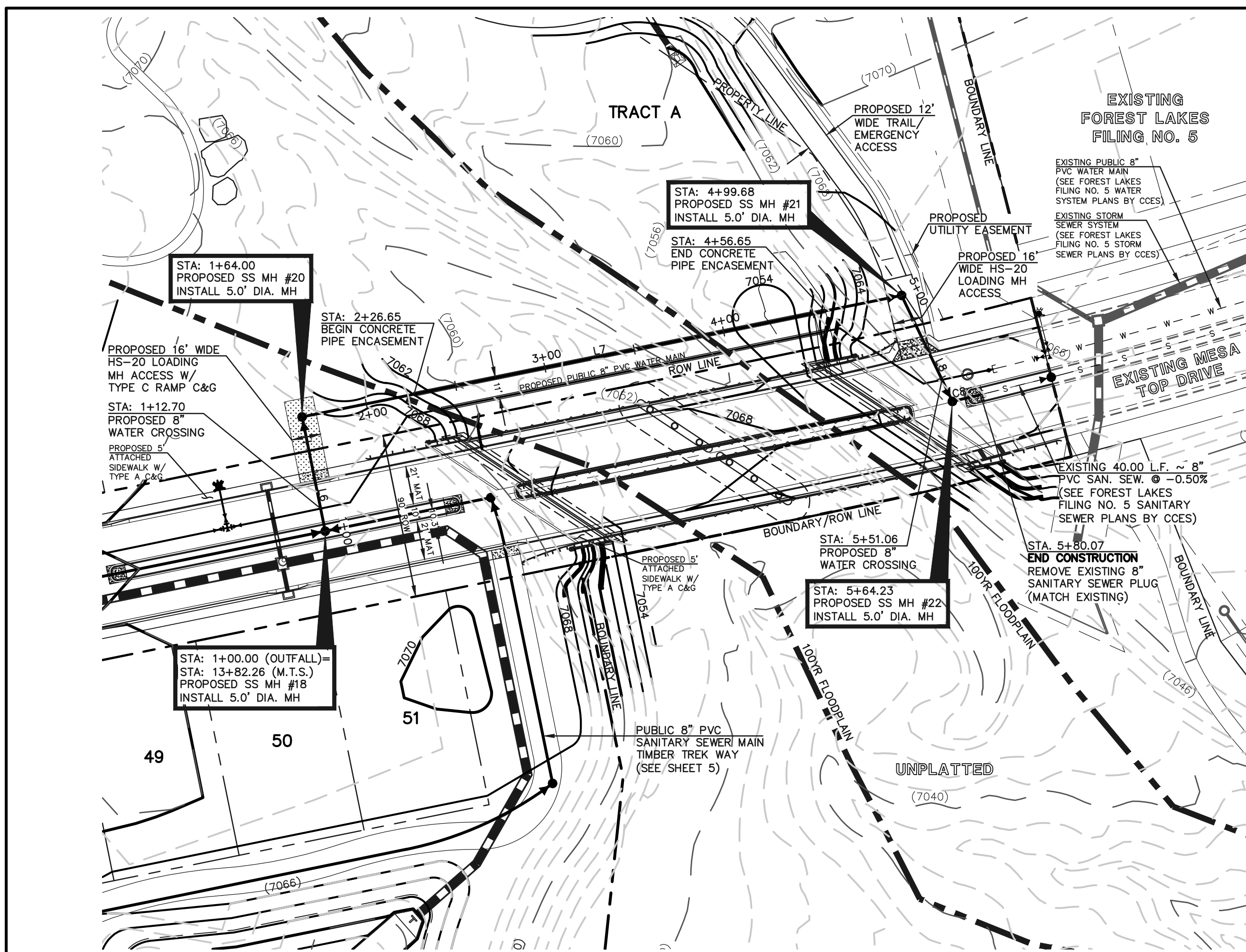
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL, COLORADO P.E. #29794

FOREST LAKES FILING NO. 6
PUBLIC 8" PVC SANITARY SEWER PLAN
MESA TOP DRIVE SOUTH
STA: 1+00.00 - END

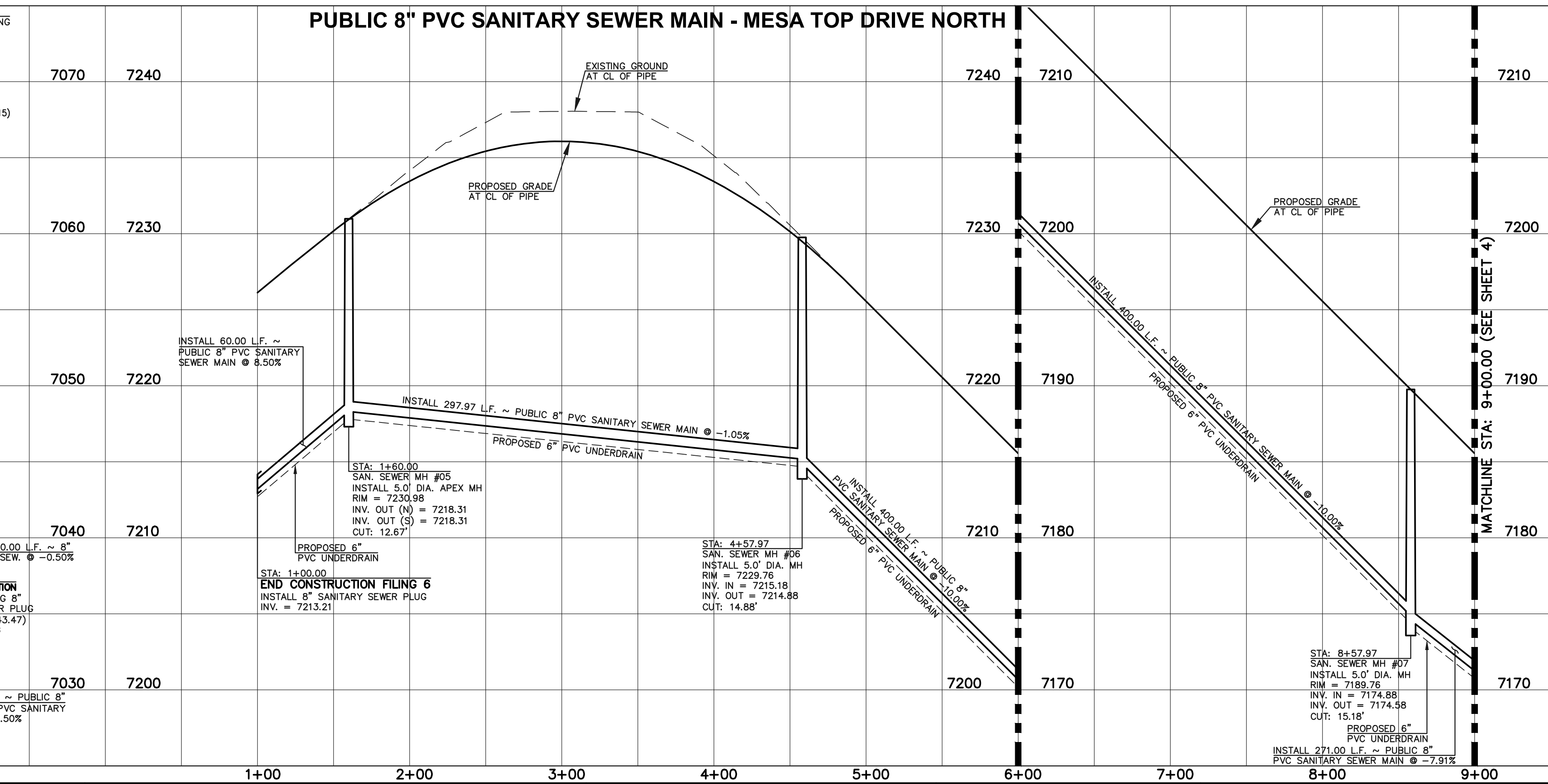
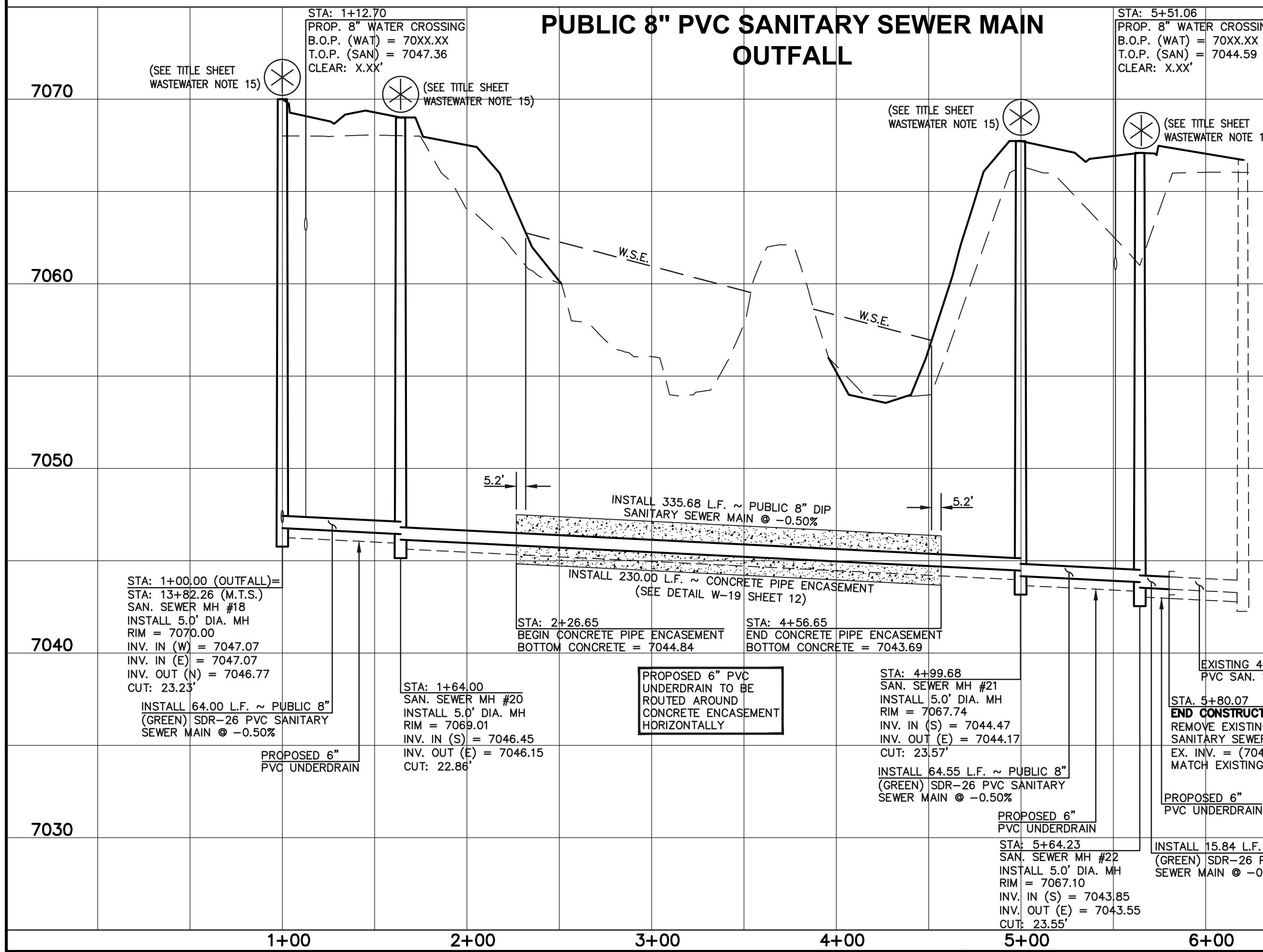
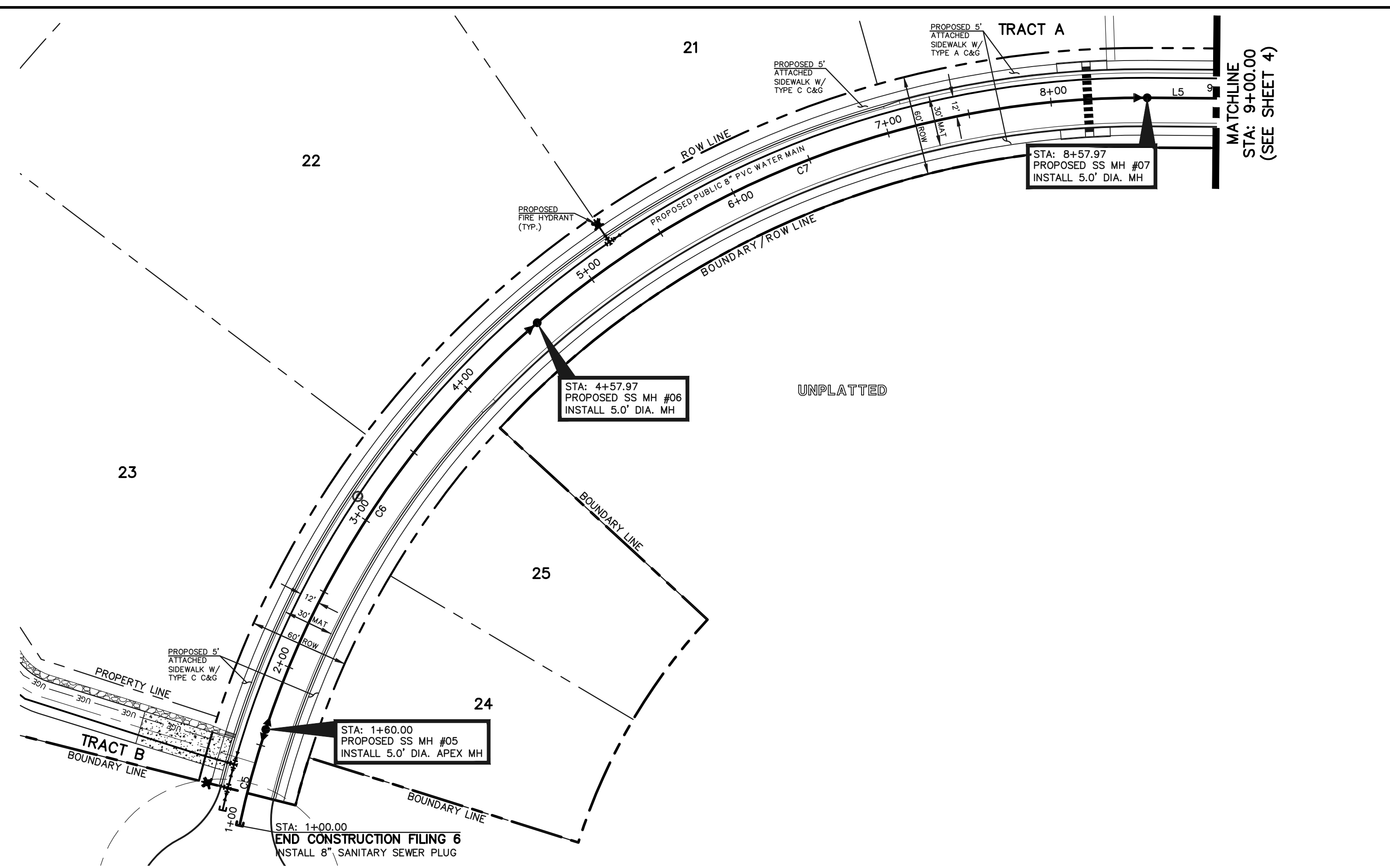
DESIGNED BY	MES	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET	2 OF 12
CHECKED BY	(V) 1" = 5'	JOB NO.	1175.60	

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LINE	LENGTH	DIRECTION
L5	271.00	N89°35'55"W
L6	64.00	N11°27'53"W
L7	335.68	N78°32'07"E
L8	64.54	S25°35'05"E

CURVE	LENGTH	RADIUS	DELTA
C5	60.00	555.00	06°11'39"
C6	297.97	555.00	30°45'41"
C7	400.00	555.00	41°17'39"
C8	15.84	3000.00	00°18'09"



LEGEND	
	PROPOSED FIRE HYDRANT
	PROPOSED WATER MAIN
	PROPOSED SANITARY SEWER MAIN
	PROPOSED STORM SEWER
	PROPOSED STORM INLET
	ROW/BOUNDARY LINE
	EXISTING FIRE HYDRANT
	EXISTING WATER MAIN
	EXISTING SANITARY SEWER MAIN
	EXISTING STORM SEWER
	EXISTING STORM INLET
	EXISTING GAS MAIN
	EXISTING ELECTRIC

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NO.	REVISION	DATE

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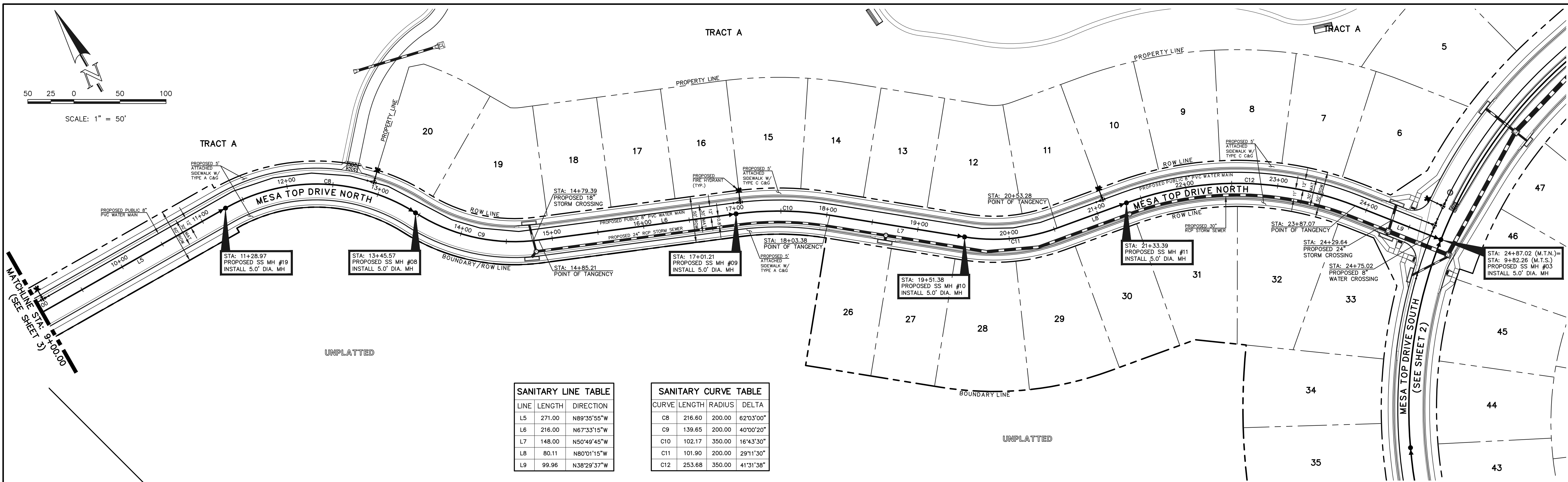
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE



FOREST LAKES FILING NO. 6
PUBLIC 8" PVC SANITARY SEWER PLAN
SANITARY OUTFALL STA: 1+00.00 - END
MESA TOP DRIVE NORTH STA: 1+00 - STA: 9+00

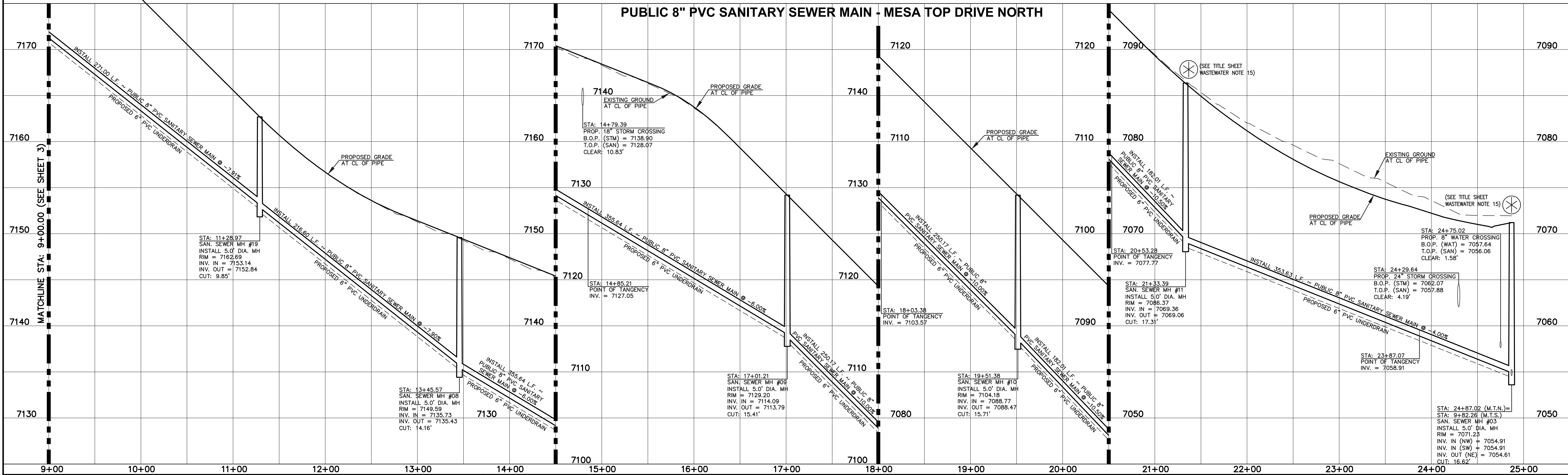
DESIGNED BY	MES	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET	3 OF 12
CHECKED BY	(V) 1" = 5'	JOB NO.	1175.60	

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LINE	LENGTH	DIRECTION
L5	271.00	N89°35'55"W
L6	216.00	N67°33'15"W
L7	148.00	N50°49'45"W
L8	80.11	N80°01'15"W
L9	99.96	N38°29'37"W

CURVE	LENGTH	RADIUS	DELTA
C8	216.60	200.00	62°03'00"
C9	139.65	200.00	40°00'20"
C10	102.17	350.00	16°43'30"
C11	101.90	200.00	29°11'30"
C12	253.68	350.00	41°31'38"



LEGEND

	PROPOSED FIRE HYDRANT		EXISTING FIRE HYDRANT
	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED SANITARY SEWER MAIN		EXISTING SANITARY SEWER MAIN
	PROPOSED STORM SEWER		EXISTING STORM SEWER
	PROPOSED STORM INLET		EXISTING STORM INLET
	ROW/BOUNDARY LINE		EXISTING GAS MAIN
			EXISTING ELECTRIC

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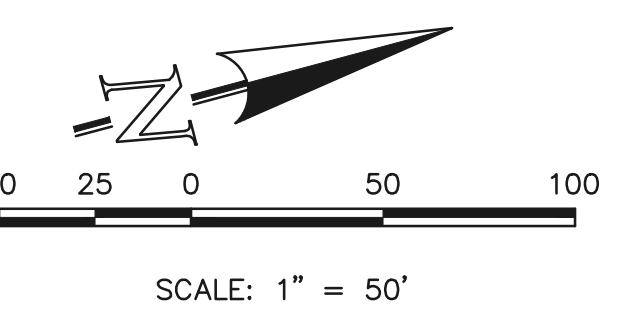
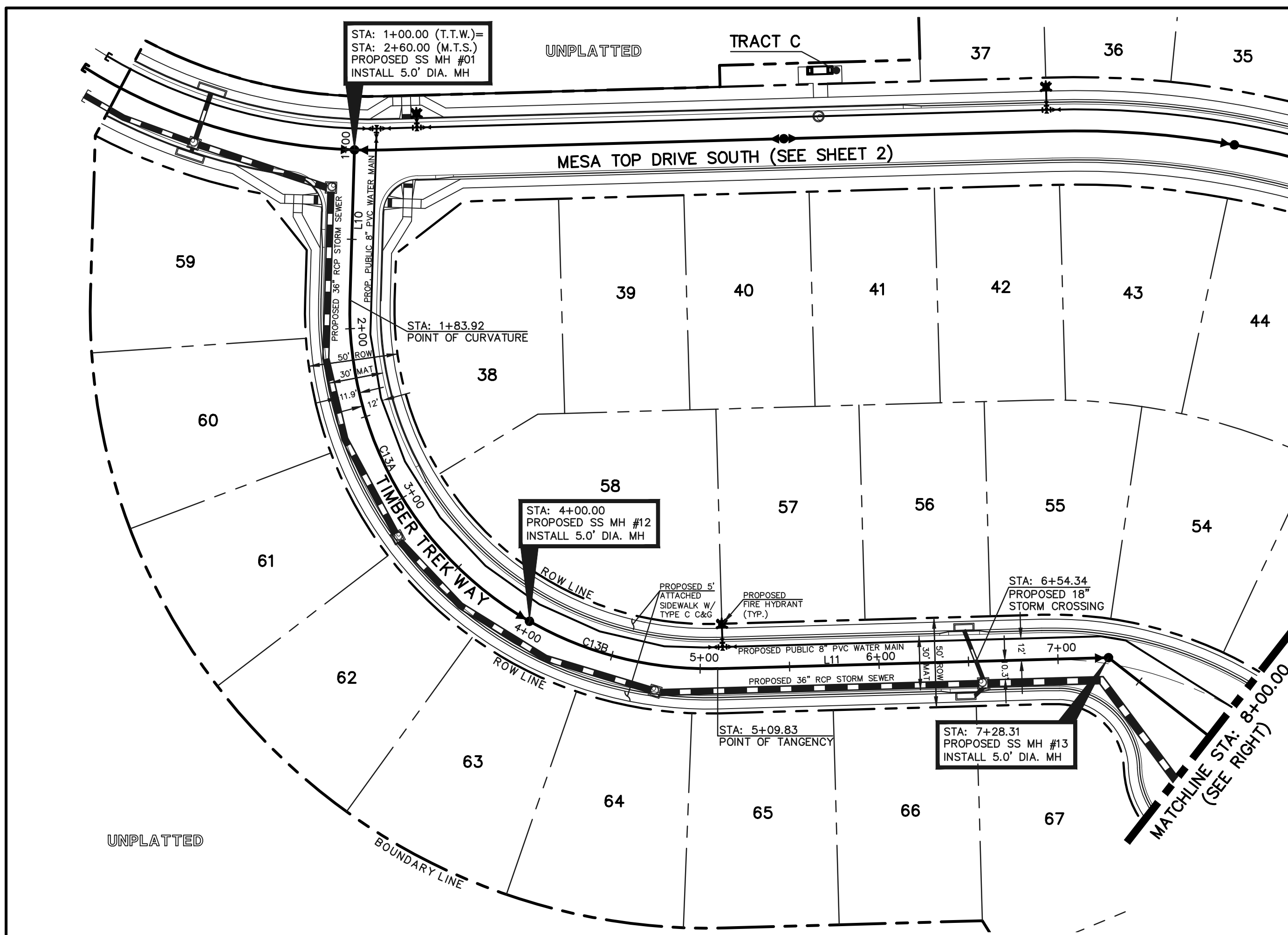
CLASSIC CONSULTING

619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719)785-0790
(719)785-0799(Fax)

FOREST LAKES FILING NO. 6
PUBLIC 8" PVC SANITARY SEWER PLAN
MESA TOP DRIVE NORTH
STA: 9+00.00 - END

DESIGNED BY	MES	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET	4 OF 12
CHECKED BY	(V) 1" = 5'	JOB NO.	1175.60	

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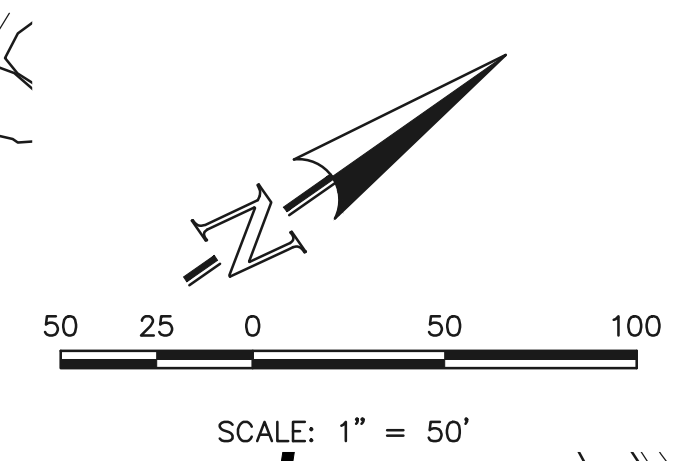
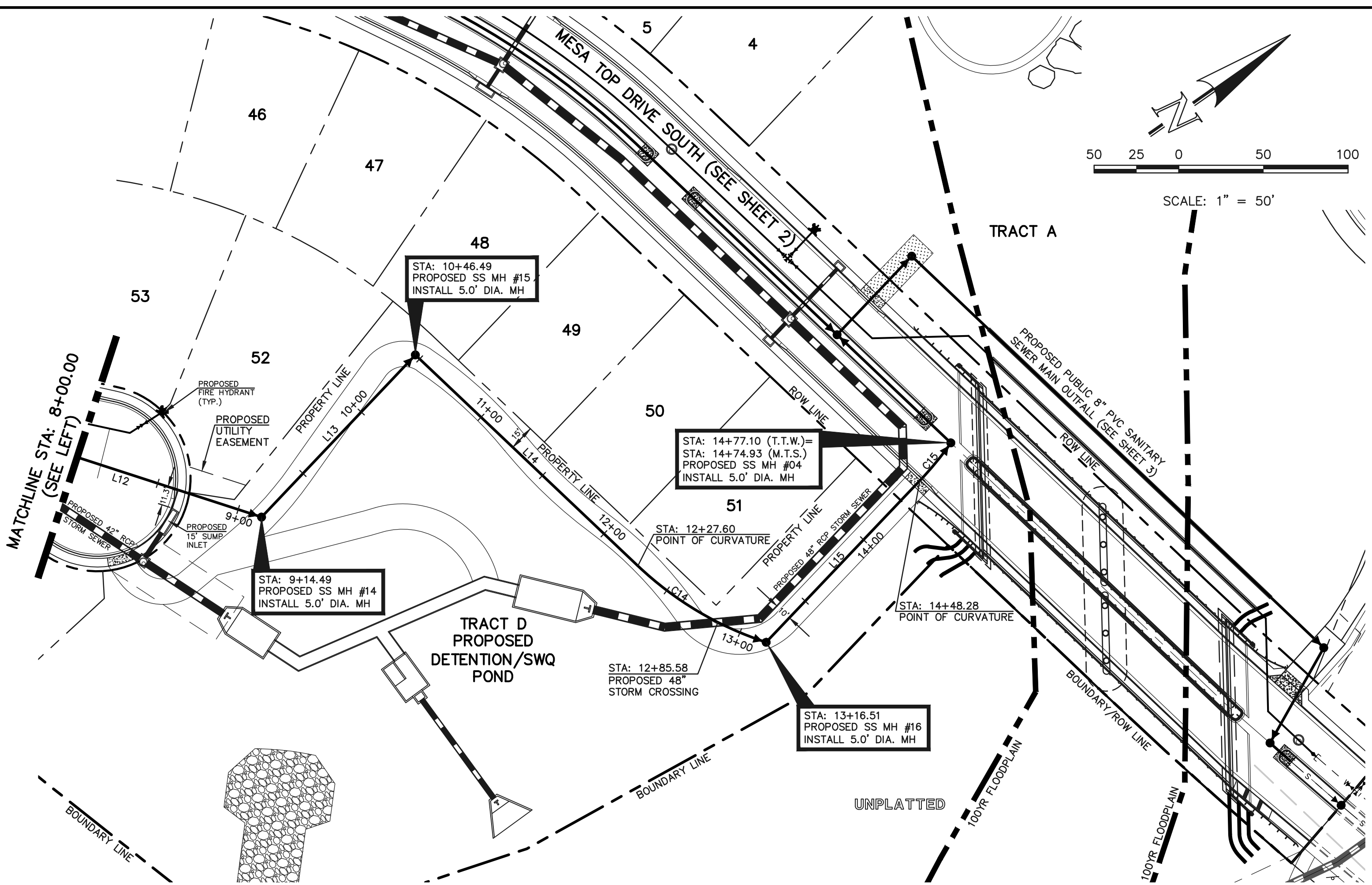


SANITARY LINE TABLE

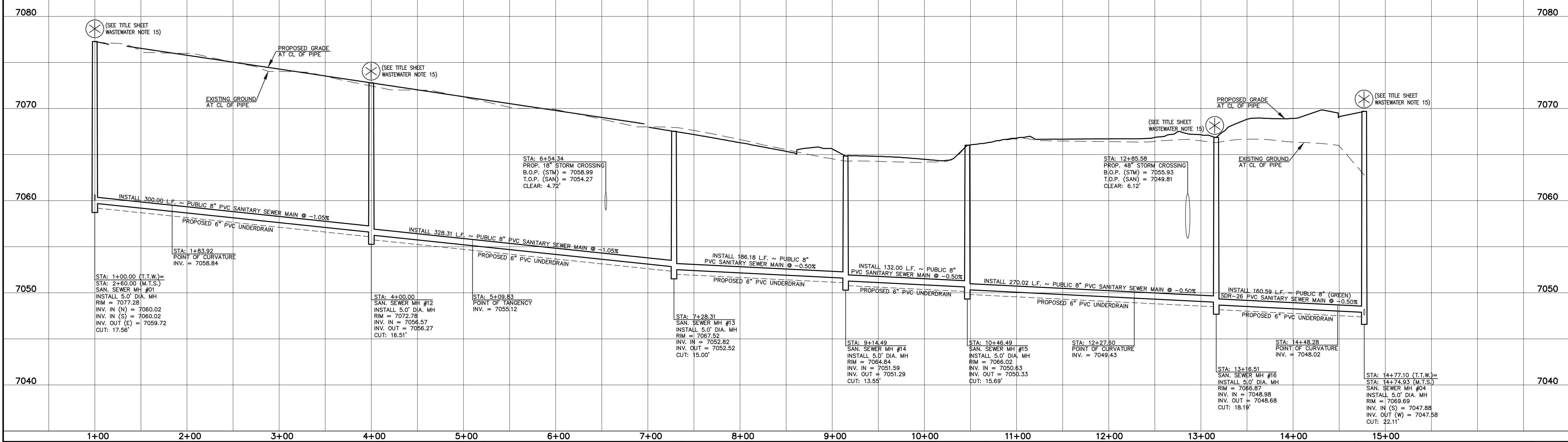
LINE	LENGTH	DIRECTION
L10	83.92	S73°14'40"E
L11	218.48	N13°23'21"E
L12	186.19	S52°59'57"W
L13	132.00	N11°31'02"W
L14	181.11	S78°28'58"W
L15	131.77	N11°27'54"W

SANITARY CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA
C13A	216.08	200.00	61°54'10"
C13B	109.83	200.00	31°27'49"
C14	88.90	200.00	25°28'09"
C15	28.82	200.00	08°15'20"



PUBLIC 8" PVC SANITARY SEWER MAIN - TIMBER TREK WAY



LEGEND

	PROPOSED FIRE HYDRANT		EXISTING FIRE HYDRANT
	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED SANITARY SEWER MAIN		EXISTING SANITARY SEWER MAIN
	PROPOSED STORM SEWER		EXISTING STORM SEWER
	PROPOSED STORM INLET		EXISTING STORM INLET
	ROW/BOUNDARY LINE		EXISTING GAS MAIN
			EXISTING ELECTRIC

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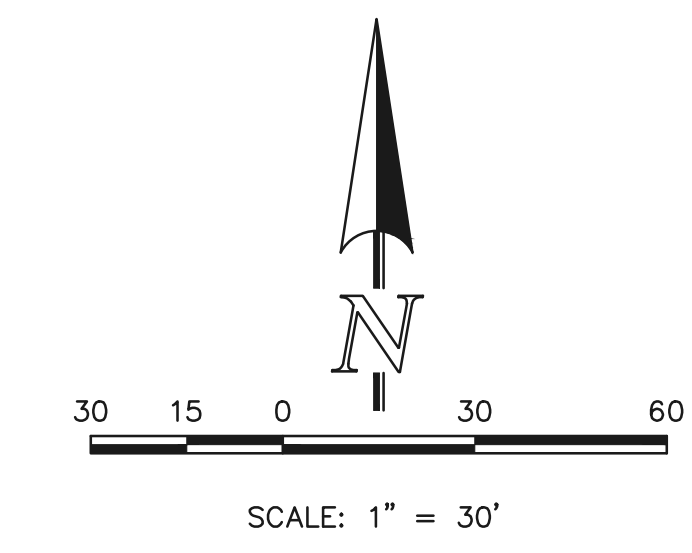
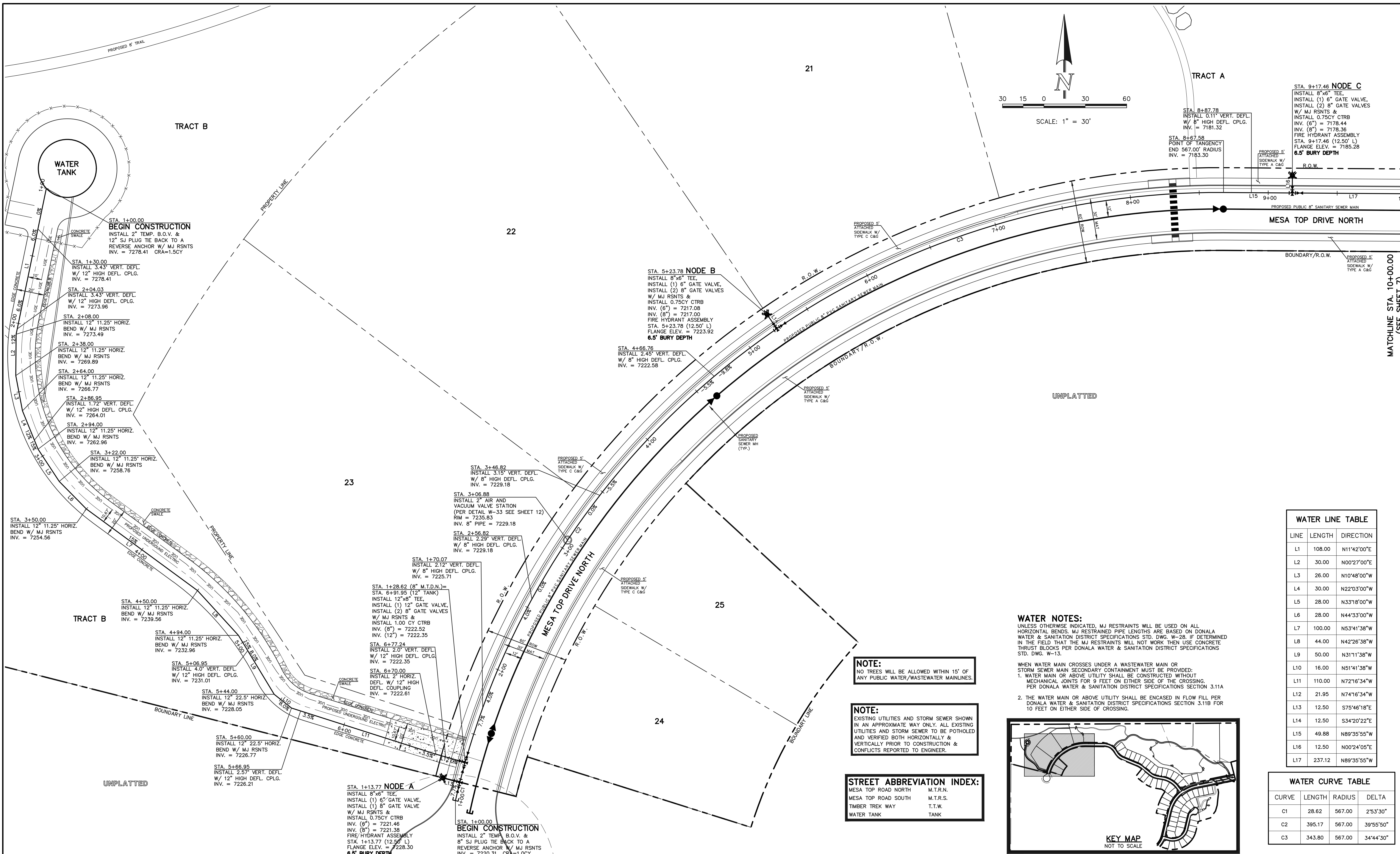
KYLE R. CAMPBELL, COLORADO P.E. #29794

618 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719)785-0790
(719)785-0799(Fax)

FOREST LAKES FILING NO. 6
PUBLIC 8" PVC SANITARY SEWER PLAN
TIMBER TREK WAY
STA: 1+00.00 - END

DESIGNED BY	MES	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET	5 OF 12
CHECKED BY	(V) 1" = 5'	JOB NO.	1175.60	

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STA. 9+17.46 NODE C
 INSTALL 8"x6" TEE,
 INSTALL (1) 8" GATE VALVE,
 INSTALL (2) 8" GATE VALVES
 W/ MJ RSNTS &
 INSTALL 0.75CY CTRB
 INV. (6") = 7178.44
 INV. (8") = 7178.36
 FIRE HYDRANT ASSEMBLY
 STA. 9+17.46 (12.50' L)
 FLANGE ELEV. = 7185.28
6.5' BURY DEPTH

STA. 5+23.78 NODE B
 INSTALL 8"x6" TEE,
 INSTALL (1) 8" GATE VALVE,
 INSTALL (2) 8" GATE VALVES
 W/ MJ RSNTS &
 INSTALL 0.75CY CTRB
 INV. (6") = 7217.08
 INV. (8") = 7217.00
 FIRE HYDRANT ASSEMBLY
 STA. 5+23.78 (12.50' L)
 FLANGE ELEV. = 7223.92
6.5' BURY DEPTH

STA. 3+46.82
 INSTALL 3.15" VERT. DEFL.
 W/ 8" HIGH DEFL. CPLG.
 INV. = 7229.18

STA. 1+28.82 (8" M.I.D.N.)
 STA. 6+91.95 (12" TANK)
 INSTALL 12"x8" TEE,
 INSTALL (1) 12" GATE VALVE,
 INSTALL (2) 8" GATE VALVES
 W/ MJ RSNTS &
 INSTALL 1.00 CY CTRB
 INV. (8") = 7222.52
 INV. (12") = 7222.35

STA. 1+13.77 NODE A
 INSTALL 8"x6" TEE,
 INSTALL (1) 6" GATE VALVE,
 INSTALL (1) 8" GATE VALVE
 W/ MJ RSNTS &
 INSTALL 0.75CY CTRB
 INV. (6") = 7221.46
 INV. (8") = 7221.38
 FIRE HYDRANT ASSEMBLY
 STA. 1+13.77 (12.50' L)
 FLANGE ELEV. = 7228.30
6.5' BURY DEPTH

STA. 1+00.00
 BEGIN CONSTRUCTION
 INSTALL 2" TEMP. B.O.V. &
 8" SJ PLUG TIE BACK TO A
 REVERSE ANCHOR W/ MJ RSNTS
 INV. = 7220.31 CRA=1.0CY

WATER LINE TABLE		
LINE	LENGTH	DIRECTION
L1	108.00	N11°42'00"E
L2	30.00	N00°27'00"E
L3	26.00	N10°48'00"W
L4	30.00	N22°03'00"W
L5	28.00	N33°18'00"W
L6	28.00	N44°33'00"W
L7	100.00	N53°41'38"W
L8	44.00	N42°26'38"W
L9	50.00	N31°11'38"W
L10	16.00	N51°41'38"W
L11	110.00	N72°16'34"W
L12	21.95	N74°16'34"W
L13	12.50	S75°46'18"E
L14	12.50	S34°20'22"E
L15	49.88	N89°35'55"W
L16	12.50	N00°24'05"E
L17	237.12	N89°35'55"W

WATER NOTES:
 UNLESS OTHERWISE INDICATED, MJ RESTRAINTS WILL BE USED ON ALL HORIZONTAL BENDS. MJ RESTRAINED PIPE LENGTHS ARE BASED ON DONALDA WATER & SANITATION DISTRICT SPECIFICATIONS STD. DWG. W-28. IF DETERMINED IN THE FIELD THAT THE MJ RESTRAINTS WILL NOT WORK THEN USE CONCRETE THRUST BLOCKS PER DONALDA WATER & SANITATION DISTRICT SPECIFICATIONS STD. DWG. W-13.

WHEN WATER MAIN CROSSES UNDER A WASTEWATER MAIN OR STORM SEWER MAIN SECONDARY CONTAINMENT MUST BE PROVIDED:
 1. WATER MAIN OR ABOVE UTILITY SHALL BE CONSTRUCTED WITHOUT MECHANICAL JOINTS FOR 9 FEET ON EITHER SIDE OF THE CROSSING. PER DONALDA WATER & SANITATION DISTRICT SPECIFICATIONS SECTION 3.11A

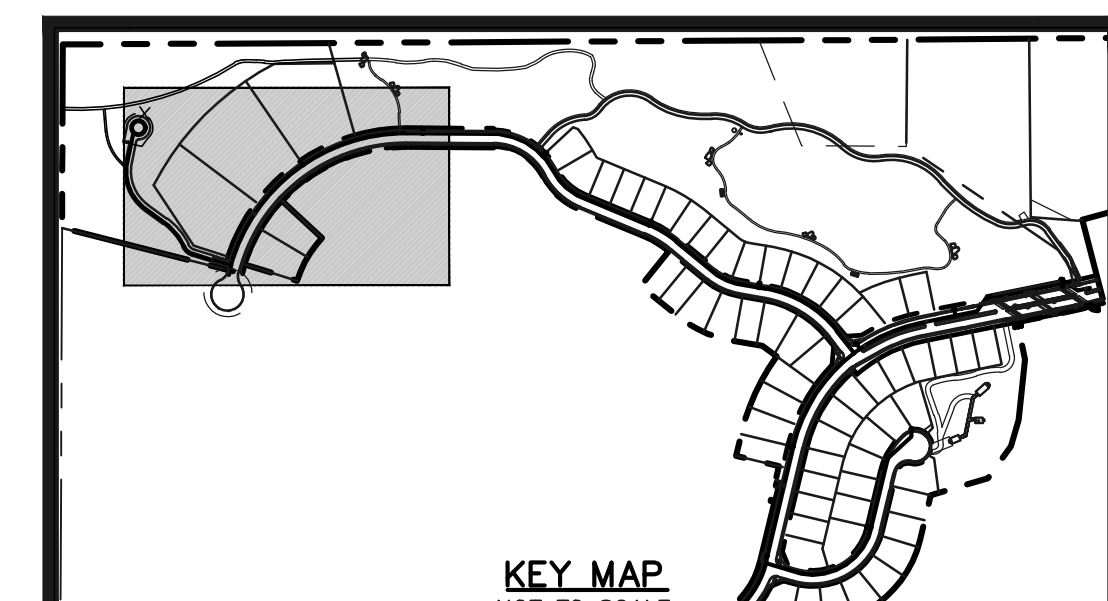
2. THE WATER MAIN OR ABOVE UTILITY SHALL BE ENCASED IN FLOW FILL PER DONALDA WATER & SANITATION DISTRICT SPECIFICATIONS SECTION 3.11B FOR 10 FEET ON EITHER SIDE OF CROSSING.

NOTE:
 NO TREES WILL BE ALLOWED WITHIN 15' OF ANY PUBLIC WATER/WASTEWATER MAINLINES.

NOTE:
 EXISTING UTILITIES AND STORM SEWER SHOWN IN AN APPROXIMATE WAY ONLY. ALL EXISTING UTILITIES AND STORM SEWER TO BE POTHOLED AND VERIFIED BOTH HORIZONTALLY & VERTICALLY PRIOR TO CONSTRUCTION & CONFLICTS REPORTED TO ENGINEER.

STREET ABBREVIATION INDEX:

MESA TOP ROAD NORTH	M.T.R.N.
MESA TOP ROAD SOUTH	M.T.R.S.
TIMBER TREK WAY	T.T.W.
WATER TANK	TANK



WATER CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	28.62	567.00	2°53'30"
C2	395.17	567.00	39°55'50"
C3	343.80	567.00	34°44'30"

LEGEND

	PROPOSED FIRE HYDRANT		EXISTING FIRE HYDRANT
	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED SANITARY SEWER MAIN		EXISTING SANITARY SEWER MAIN
	PROPOSED STORM SEWER		EXISTING STORM SEWER
	PROPOSED STORM INLET		EXISTING STORM INLET
	ROW/BOUNDARY LINE		EXISTING GAS MAIN
			EXISTING ELECTRIC

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NO.	REVISION	DATE

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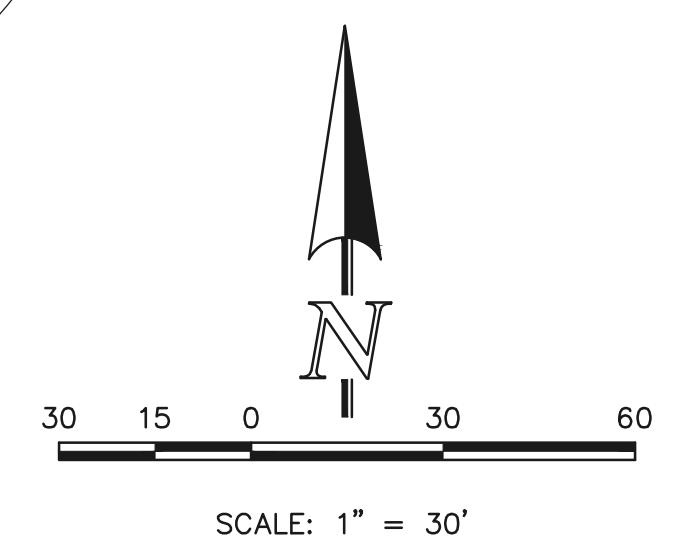
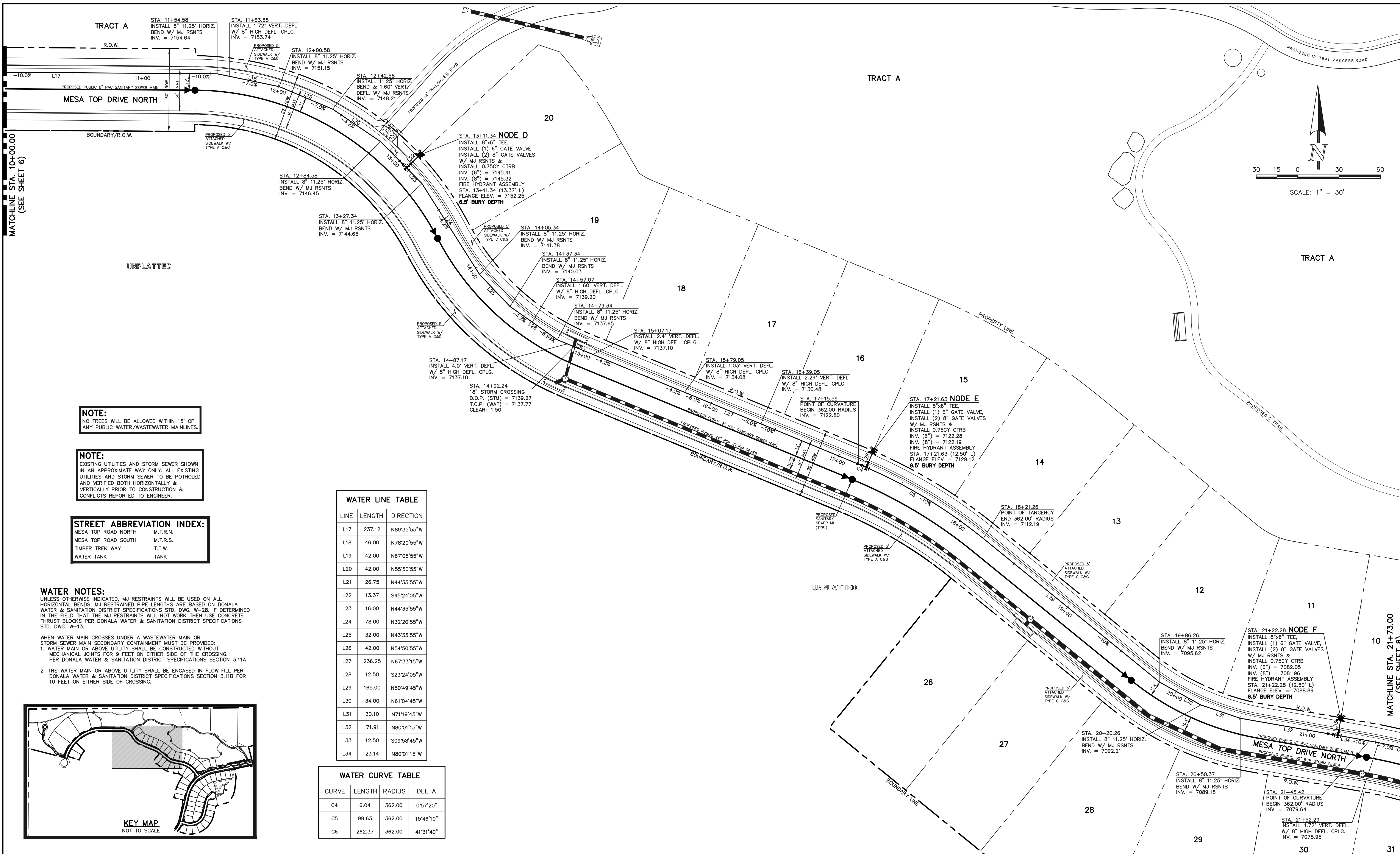
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE



FOREST LAKES FILING NO. 6
 PUBLIC 8"/12" PVC WATER SYSTEM PLAN

DESIGNED BY	MES	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 30'	SHEET	6 OF 12
CHECKED BY		(V) 1" = N/A	JOB NO.	1175.60

N:\17560\CONSTRUCTIVE\UTILITIES\06-117560-04A.dwg, 12/27/2020 4:08:46 PM, 1:1



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NOTE:
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STREET ABBREVIATION INDEX:

MESA TOP ROAD NORTH	M.T.R.N.
MESA TOP ROAD SOUTH	M.T.R.S.
TIMBER TREK WAY	T.T.W.
WATER TANK	TANK

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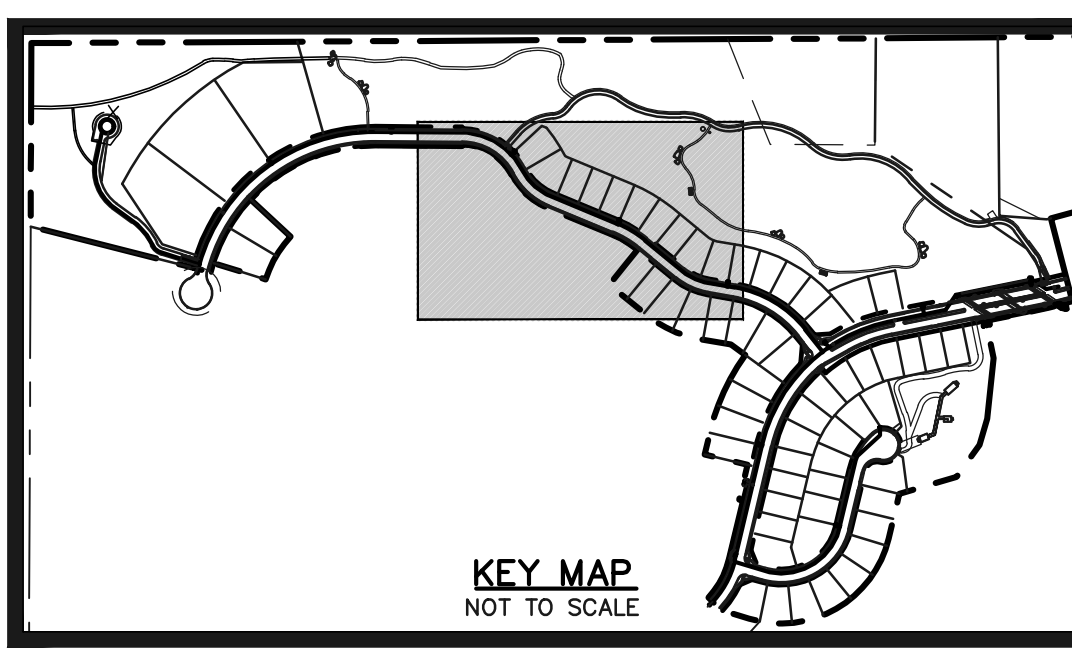
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WATER LINE TABLE

LINE	LENGTH	DIRECTION
L17	237.12	N89°35'55"W
L18	46.00	N78°20'55"W
L19	42.00	N67°05'55"W
L20	42.00	N55°50'55"W
L21	26.75	N44°35'55"W
L22	13.37	S45°24'05"W
L23	16.00	N44°35'55"W
L24	78.00	N32°20'55"W
L25	32.00	N43°35'55"W
L26	42.00	N54°50'55"W
L27	236.25	N67°33'15"W
L28	12.50	S23°24'05"W
L29	165.00	N50°49'45"W
L30	34.00	N61°04'45"W
L31	30.10	N71°19'45"W
L32	71.91	N80°01'15"W
L33	12.50	S09°58'45"W
L34	23.14	N80°01'15"W

WATER CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA
C4	6.04	362.00	0°57'20"
C5	99.63	362.00	15°46'10"
C6	262.37	362.00	41°31'40"



LEGEND

	PROPOSED FIRE HYDRANT		EXISTING FIRE HYDRANT
	PROPOSED WATER MAIN		EXISTING WATER MAIN
	PROPOSED SANITARY SEWER MAIN		EXISTING SANITARY SEWER MAIN
	PROPOSED STORM SEWER		EXISTING STORM SEWER
	PROPOSED STORM INLET		EXISTING STORM INLET
	ROW/BOUNDARY LINE		EXISTING GAS MAIN
			EXISTING ELECTRIC

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NO.	REVISION	DATE

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE

619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719)785-0790
(719)785-0799(Fax)

FOREST LAKES FILING NO. 6
PUBLIC 8" PVC WATER SYSTEM PLAN

DESIGNED BY	MES	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 30'	SHEET	7 OF 12
CHECKED BY		(V) 1" = N/A	JOB NO.	1175.60

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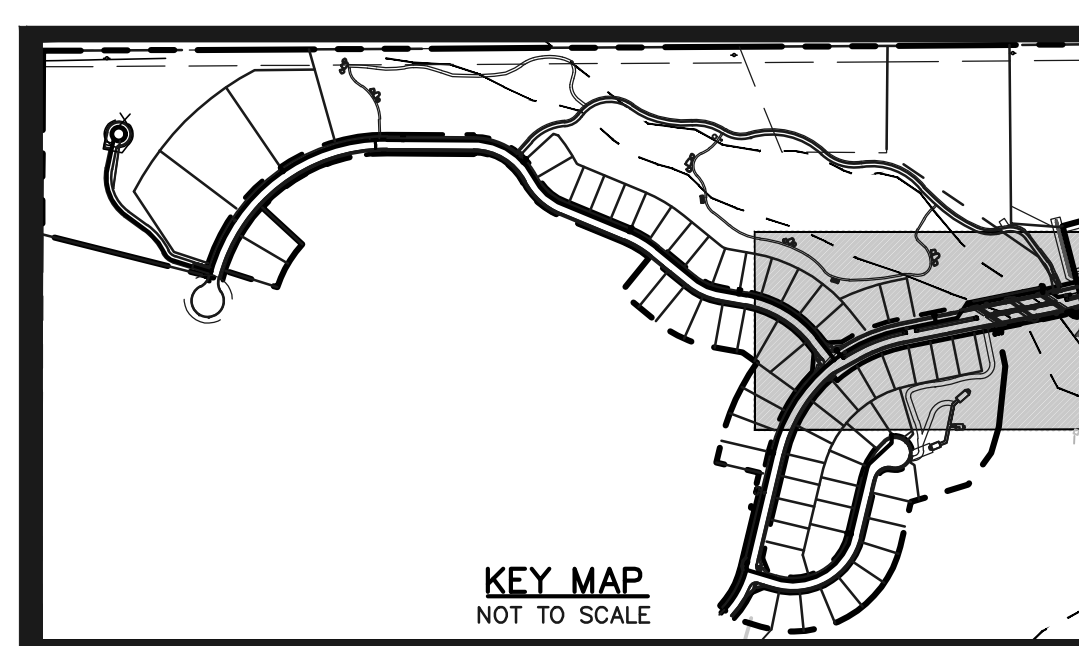
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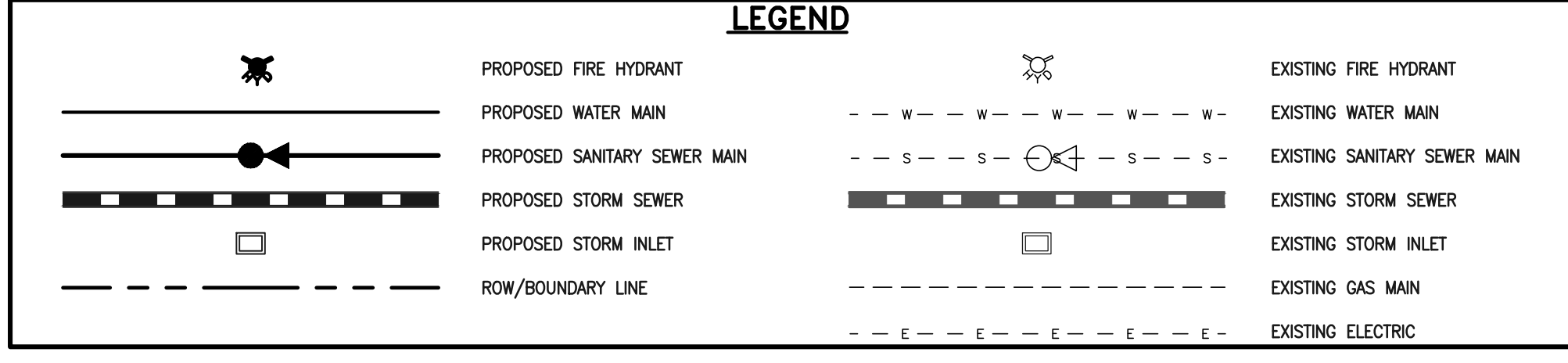
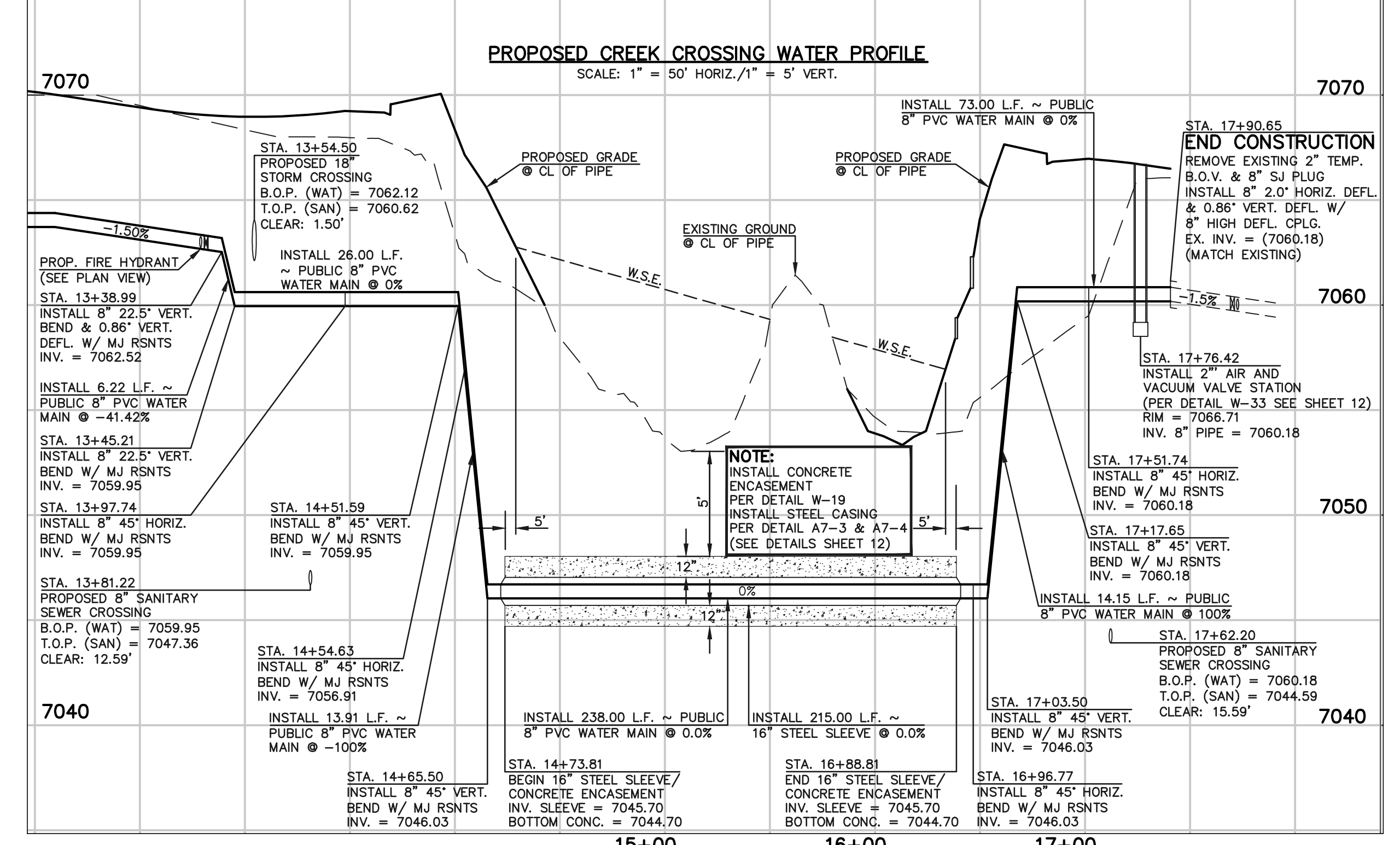
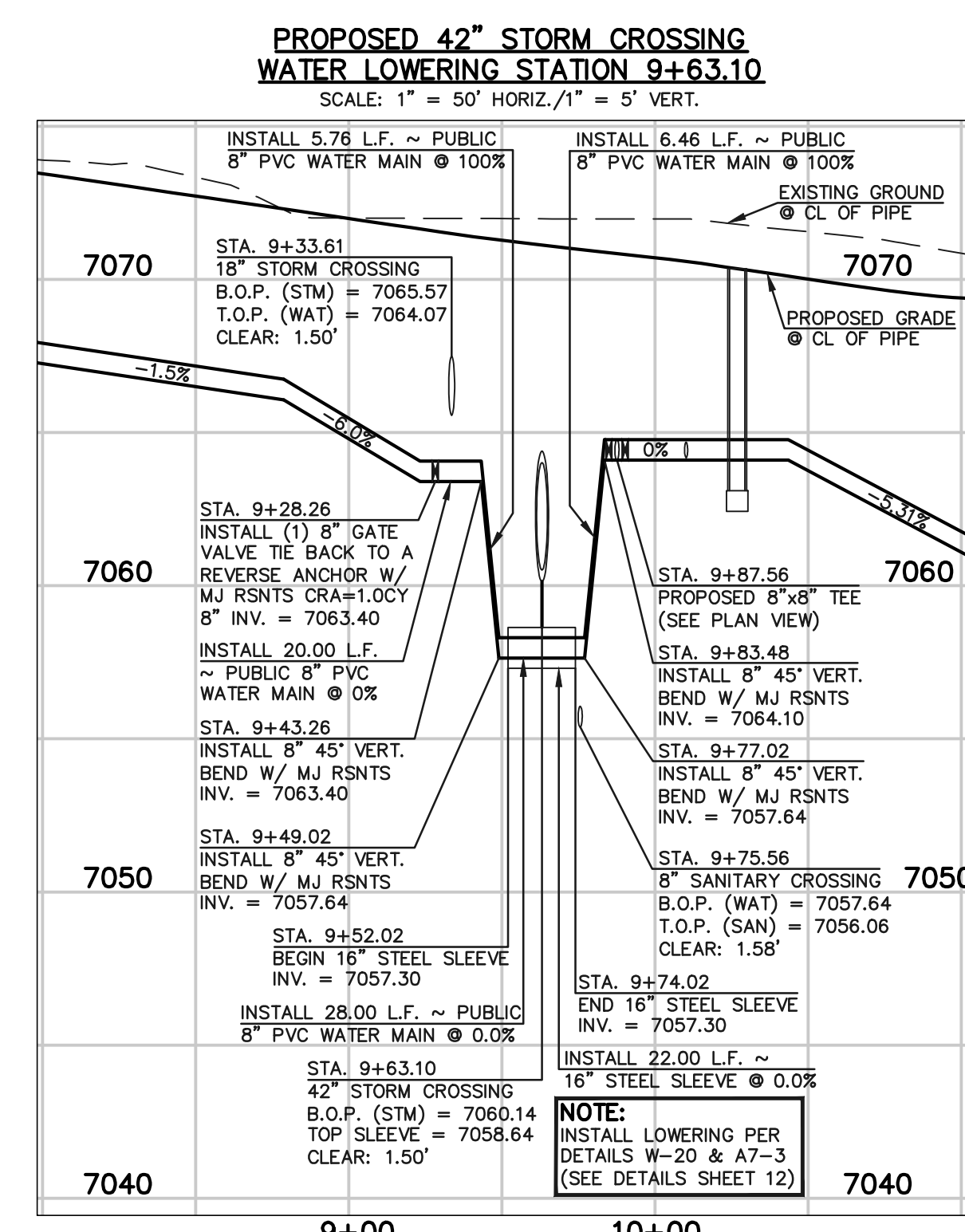
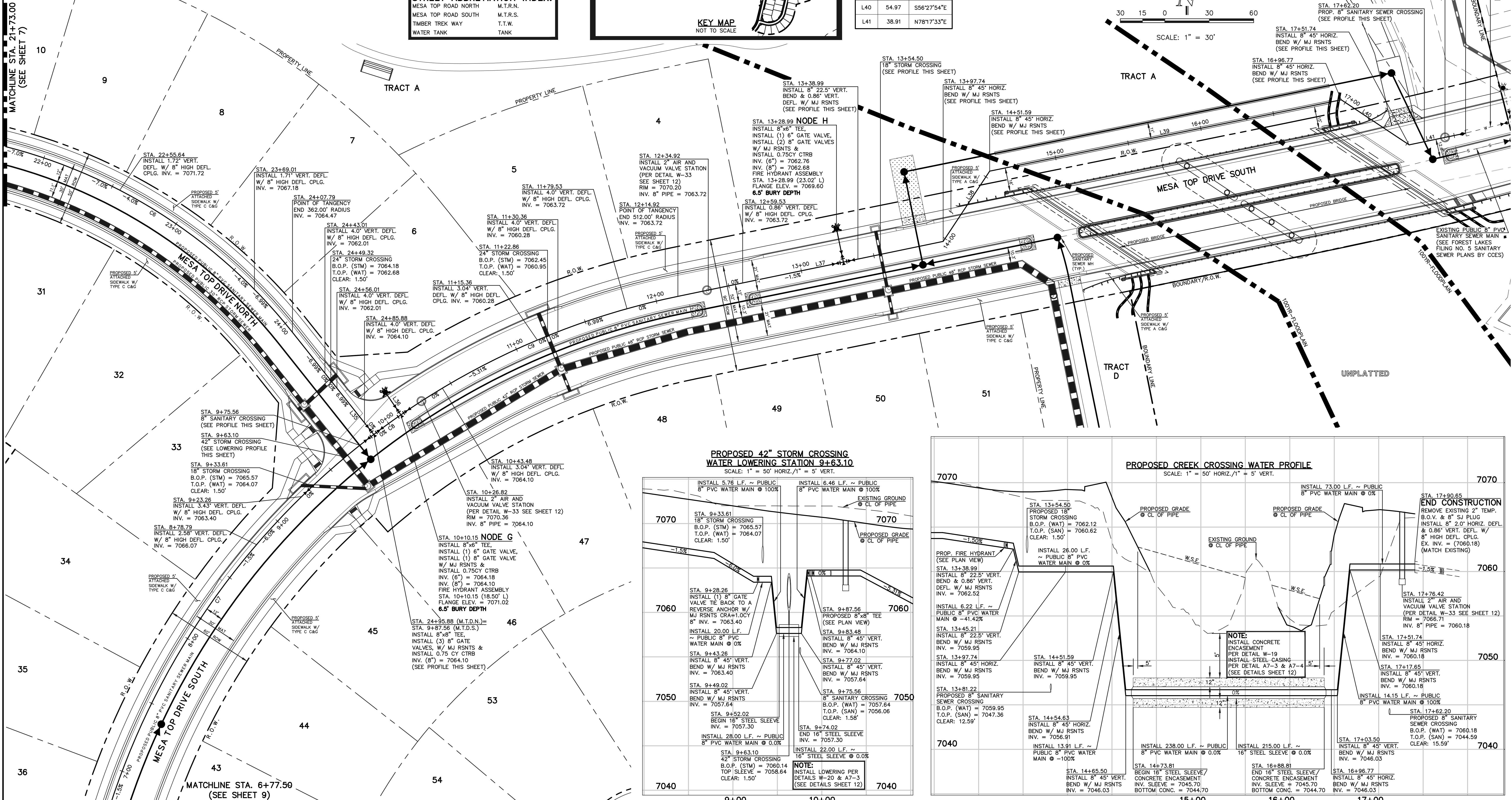
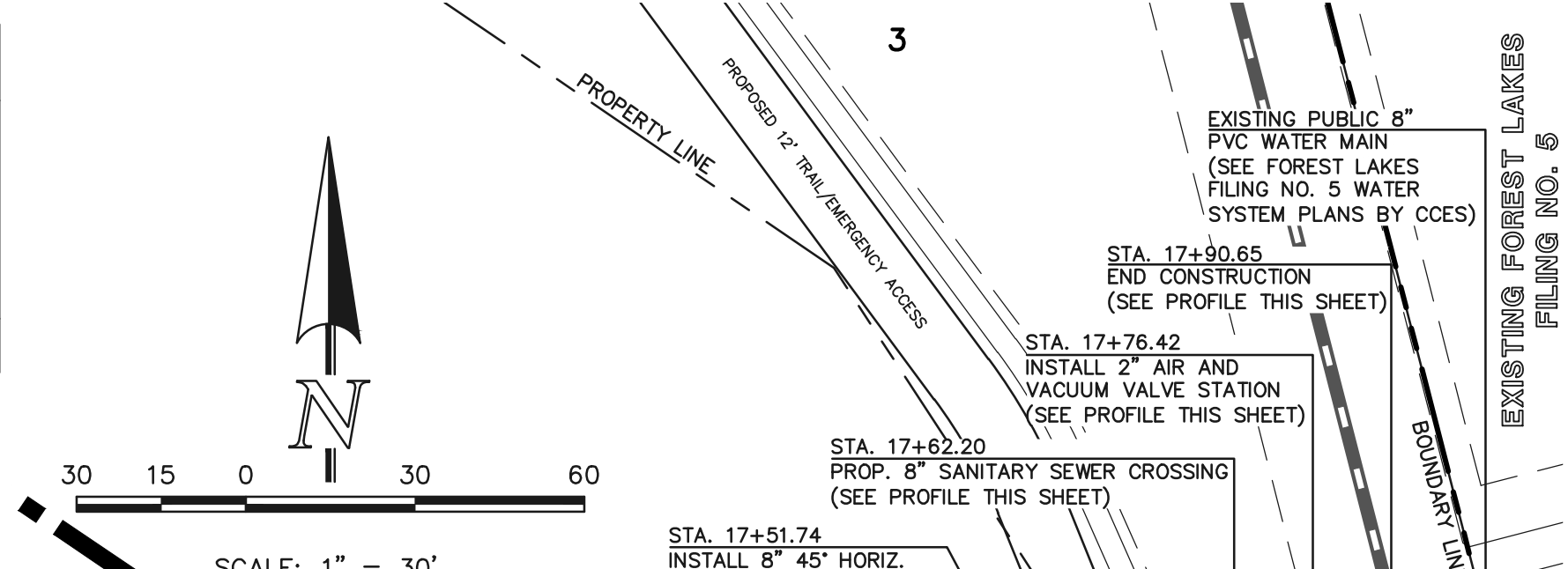


WATER LINE TABLE

LINE	LENGTH	DIRECTION
L35	88.10	S38°29'37"E
L36	18.50	N34°37'20"W
L37	182.82	N78°17'33"E
L38	56.90	N33°32'07"E
L39	242.14	N78°32'07"E
L40	54.97	S56°27'54"E
L41	38.91	N78°17'33"E

WATER CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA
C6	262.37	362.00	41°31'40"
C7	352.62	512.00	39°27'40"
C8	22.59	512.00	2°31'40"
C9	204.77	512.00	22°54'50"



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NO. REVISION

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REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

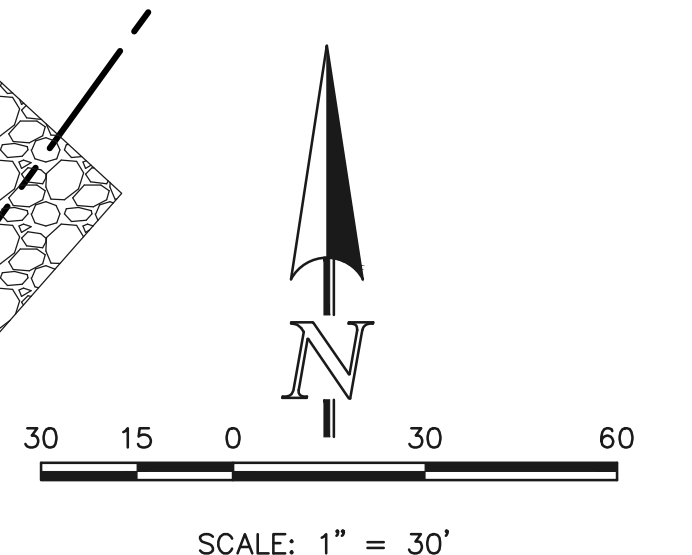
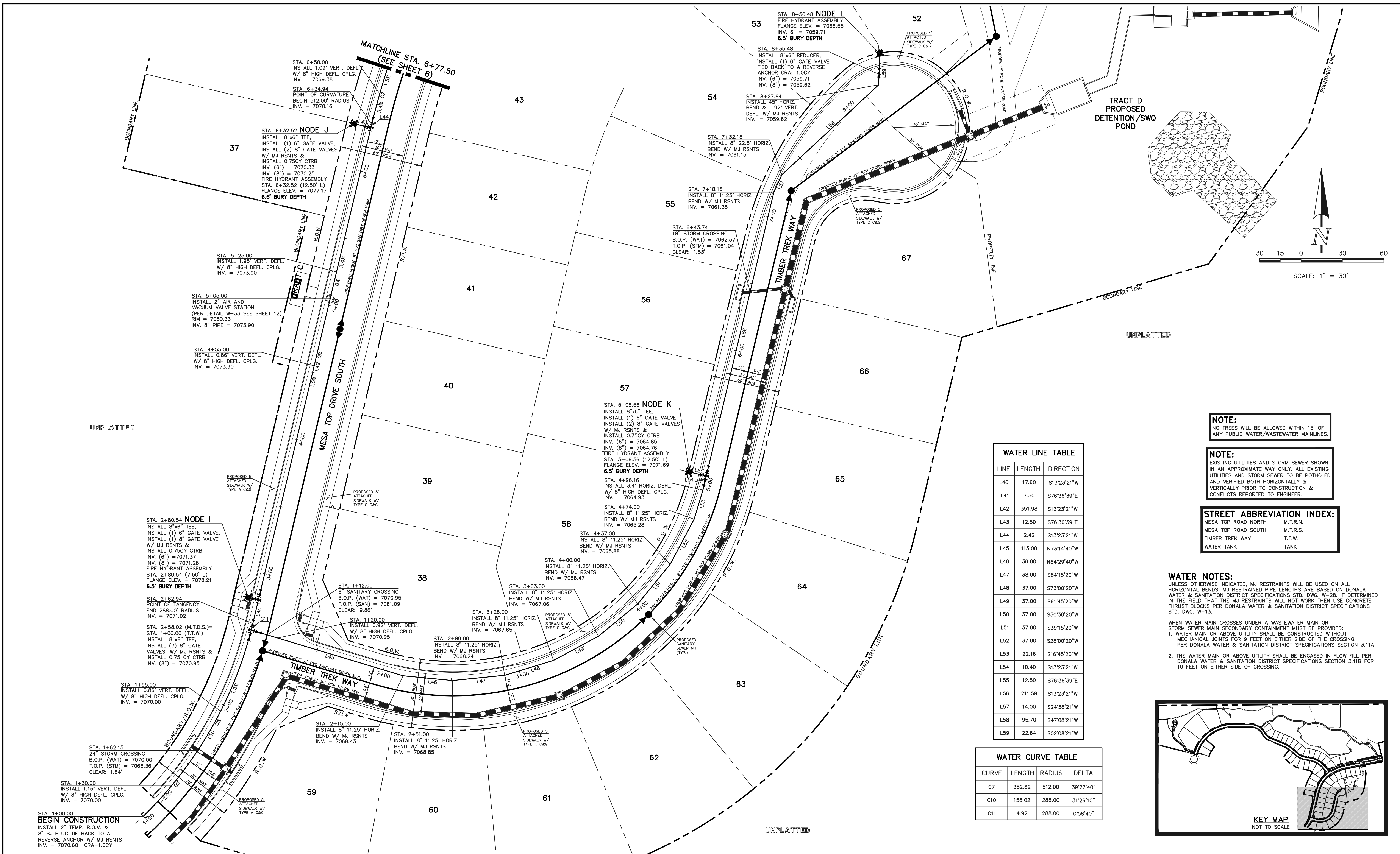
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE



FOREST LAKES FILING NO. 6
 PUBLIC 8" PVC WATER SYSTEM PLAN

DESIGNED BY MES SCALE DATE 08/04/2020
 DRAWN BY MES (H) 1" = 30' SHEET 8 OF 12
 CHECKED BY (V) 1" = N/A JOB NO. 1175.60

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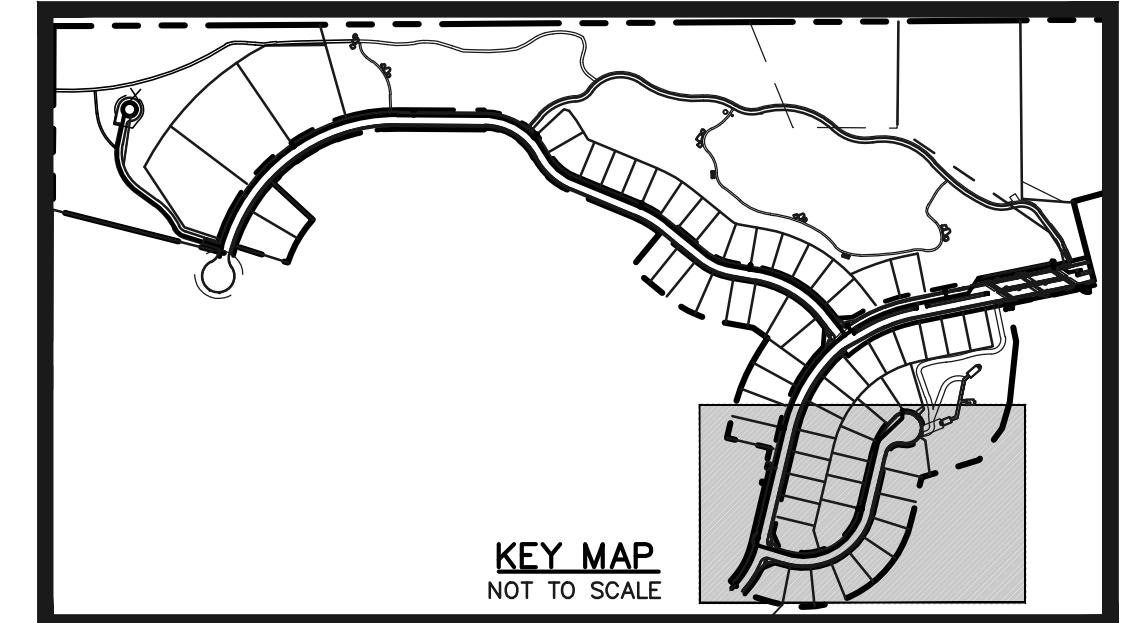
WATER LINE TABLE

LINE	LENGTH	DIRECTION
L40	17.60	S13°23'21"W
L41	7.50	S76°36'39"E
L42	351.98	S13°23'21"W
L43	12.50	S76°36'39"E
L44	2.42	S13°23'21"W
L45	115.00	N73°14'40"W
L46	36.00	N84°29'40"W
L47	38.00	S84°15'20"W
L48	37.00	S73°00'20"W
L49	37.00	S61°45'20"W
L50	37.00	S50°30'20"W
L51	37.00	S39°15'20"W
L52	37.00	S28°00'20"W
L53	22.16	S16°45'20"W
L54	10.40	S13°23'21"W
L55	12.50	S76°36'39"E
L56	211.59	S13°23'21"W
L57	14.00	S24°38'21"W
L58	95.70	S47°08'21"W
L59	22.64	S02°08'21"W

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C7	352.62	512.00	39°27'40"
C10	158.02	288.00	31°26'10"
C11	4.92	288.00	0°58'40"



LEGEND

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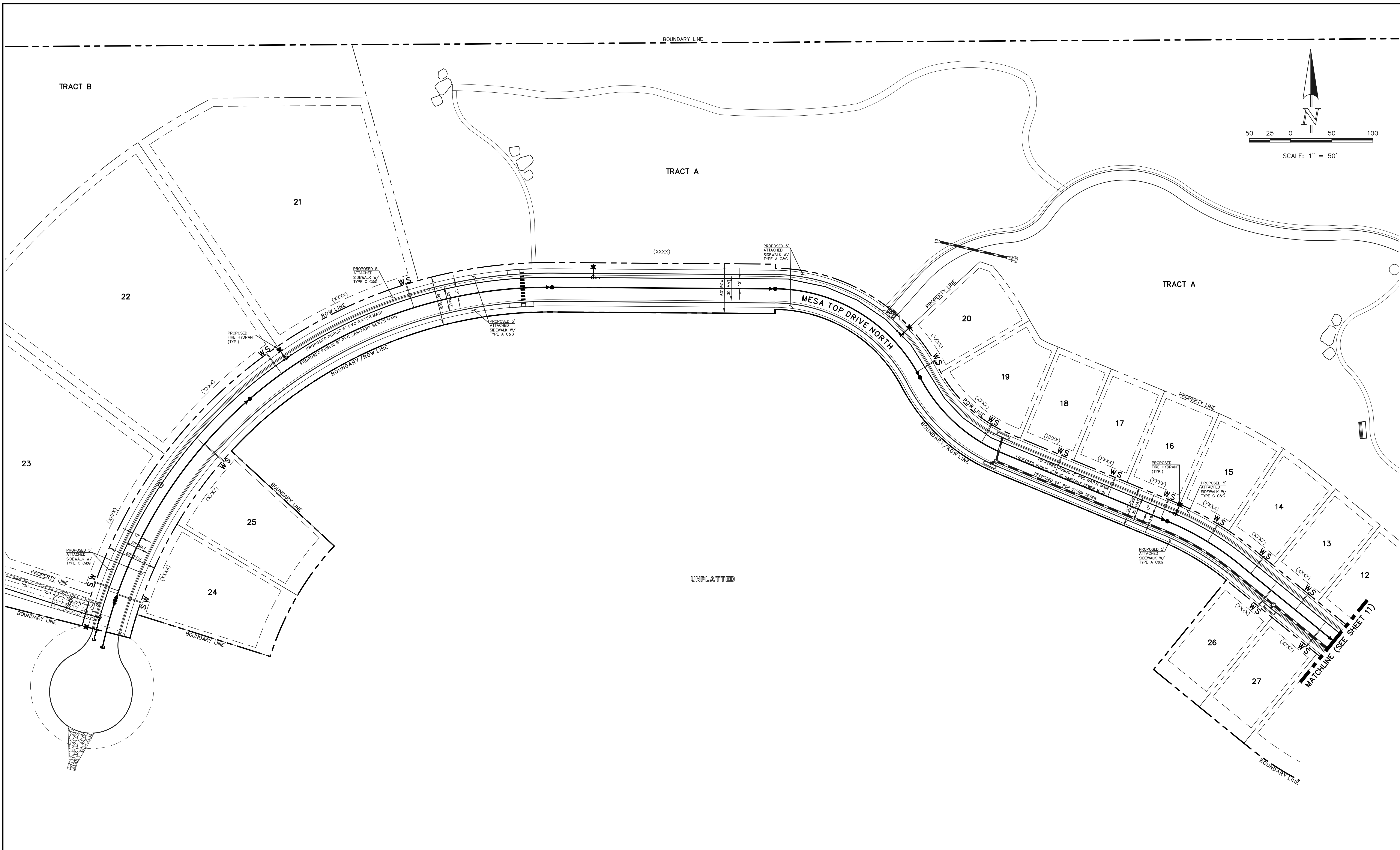
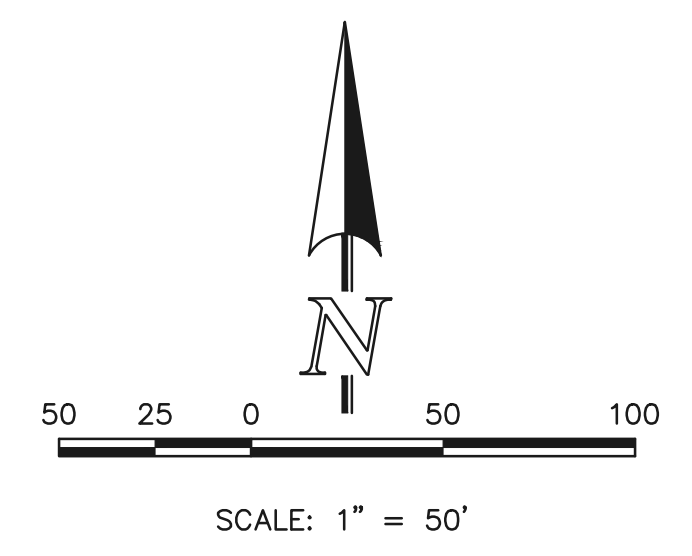
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KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE



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PUBLIC 8" PVC WATER SYSTEM PLAN

DESIGNED BY	MES	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 30'	SHEET	9 OF 12
CHECKED BY		(V) 1" = N/A	JOB NO.	1175.60

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LEGEND	
	PROPOSED FIRE HYDRANT
	PROPOSED WATER MAIN
	PROPOSED SANITARY SEWER MAIN
	PROPOSED STORM SEWER
	PROPOSED STORM INLET
	ROW/BOUNDARY LINE
	EXISTING FIRE HYDRANT
	EXISTING WATER MAIN
	EXISTING SANITARY SEWER MAIN
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	EXISTING GAS MAIN
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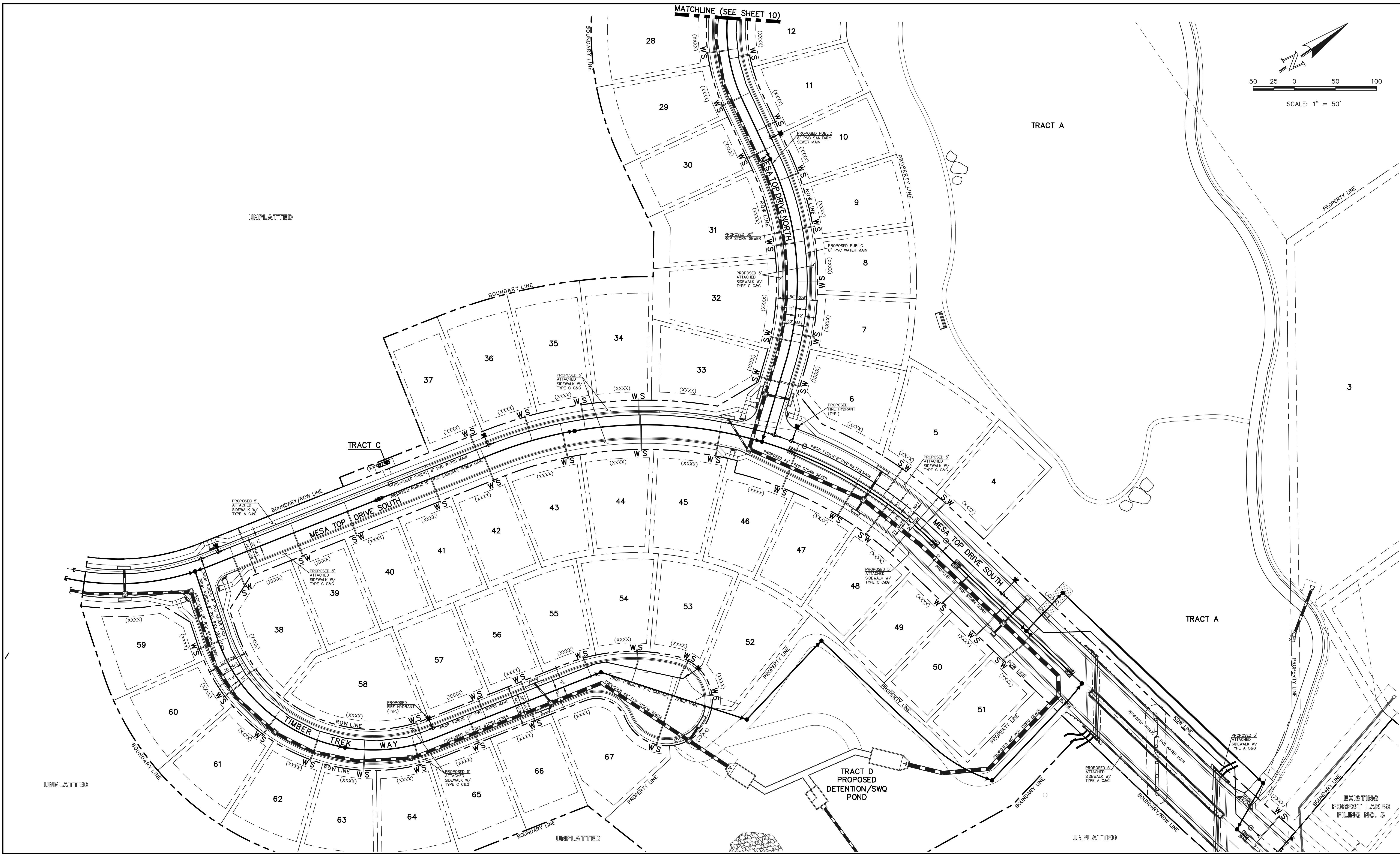
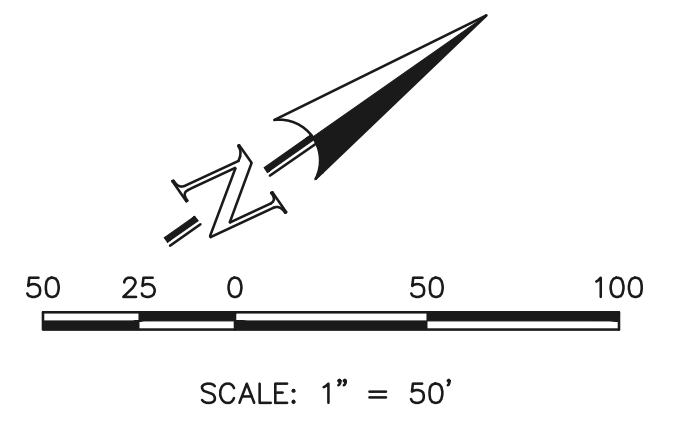
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE



FOREST LAKES FILING NO. 6 UTILITY SERVICE PLAN			
DESIGNED BY	MES	SCALE	DATE 08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET 10 OF 12
CHECKED BY		(V) 1" = N/A	JOB NO. 1175.60



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LEGEND	
	PROPOSED FIRE HYDRANT
	PROPOSED WATER MAIN
	PROPOSED SANITARY SEWER MAIN
	PROPOSED STORM SEWER
	PROPOSED STORM INLET
	ROW/BOUNDARY LINE
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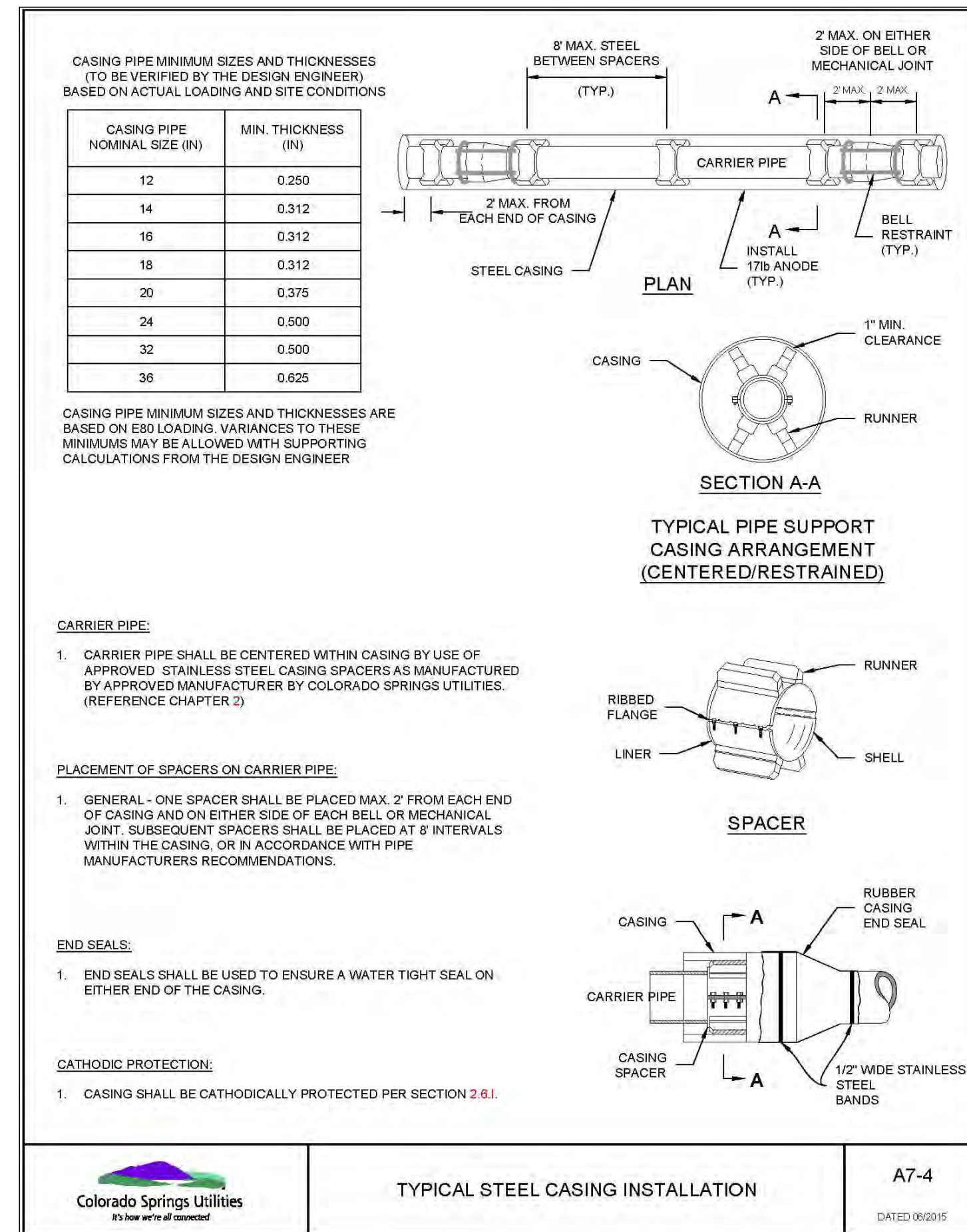
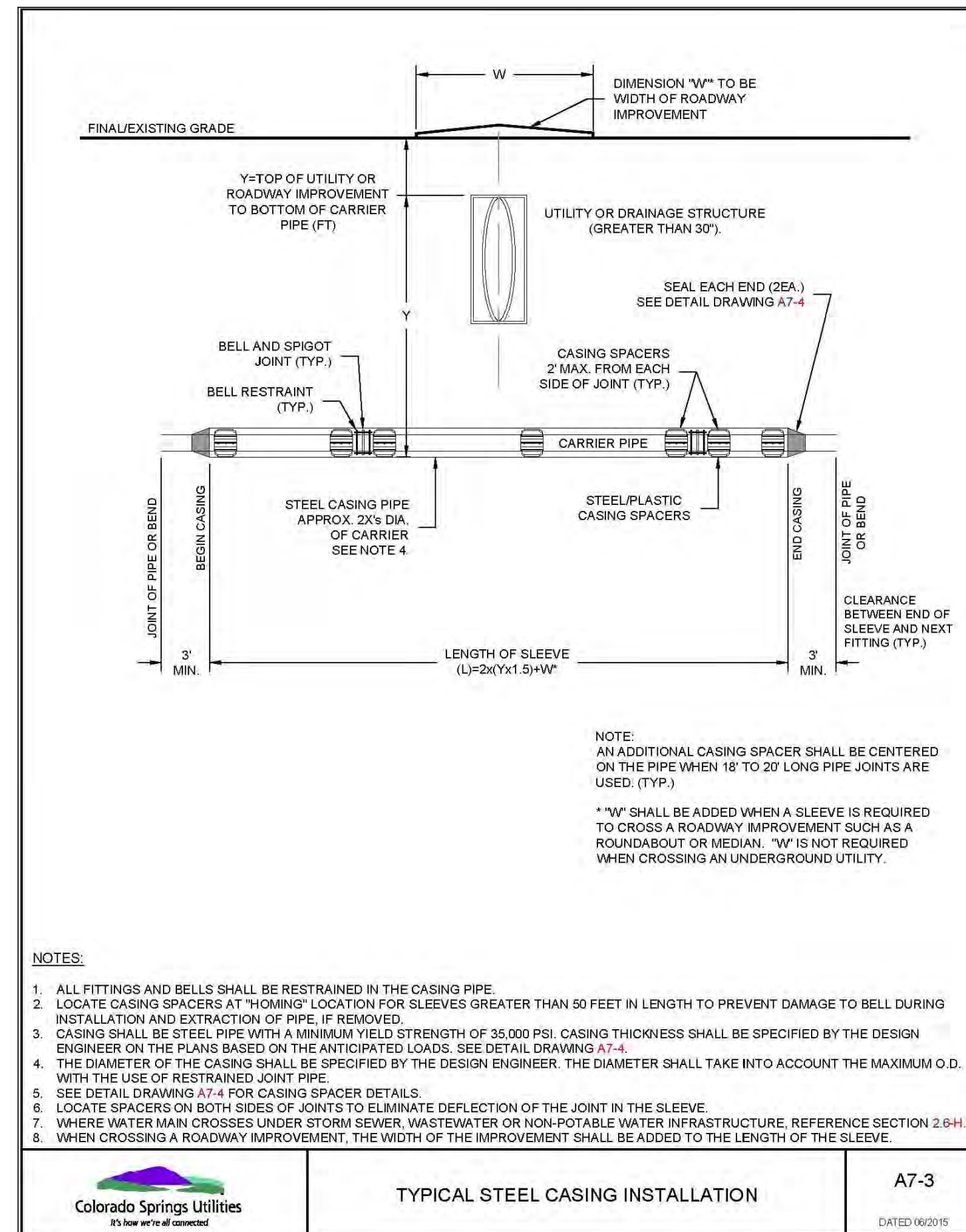
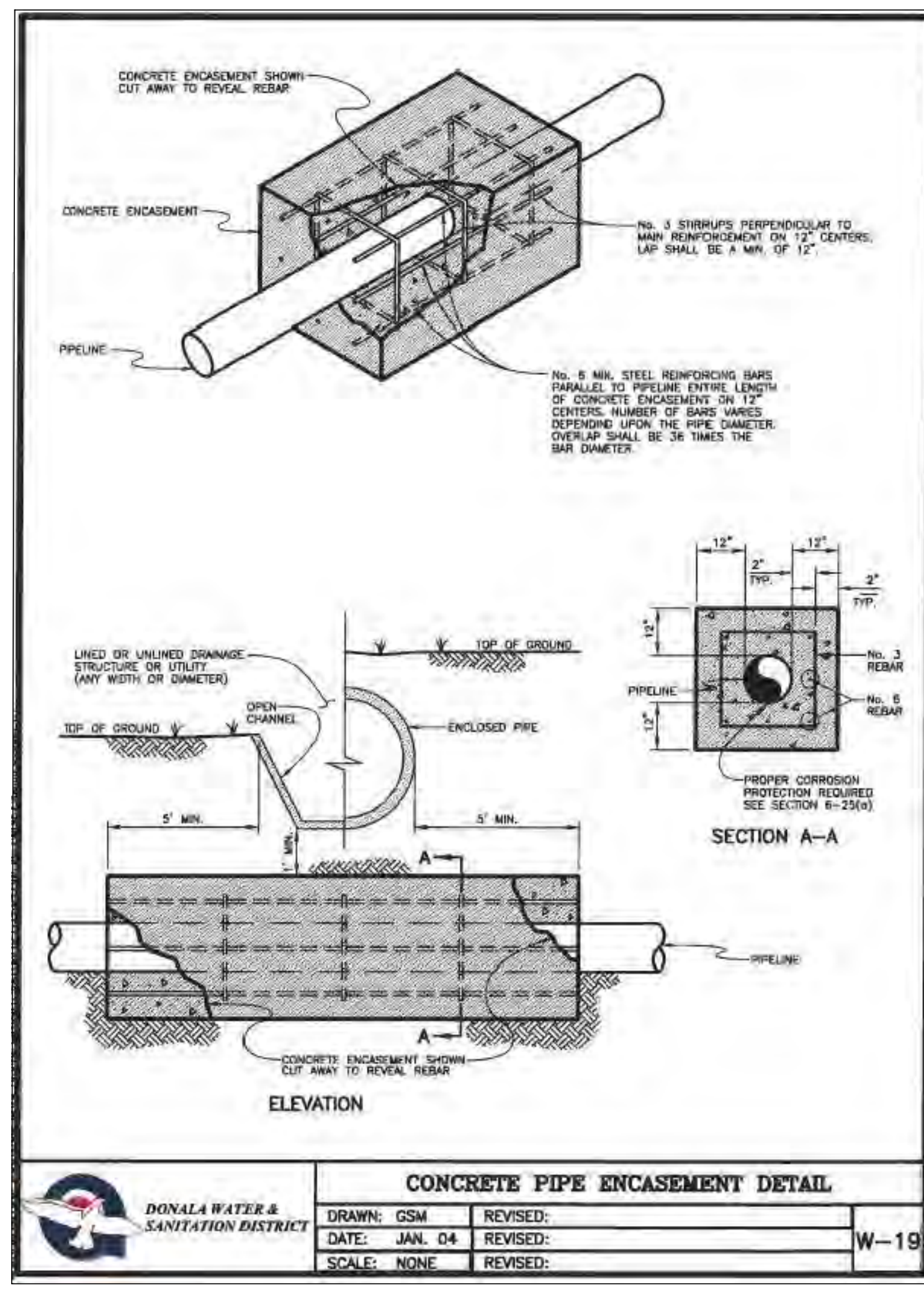
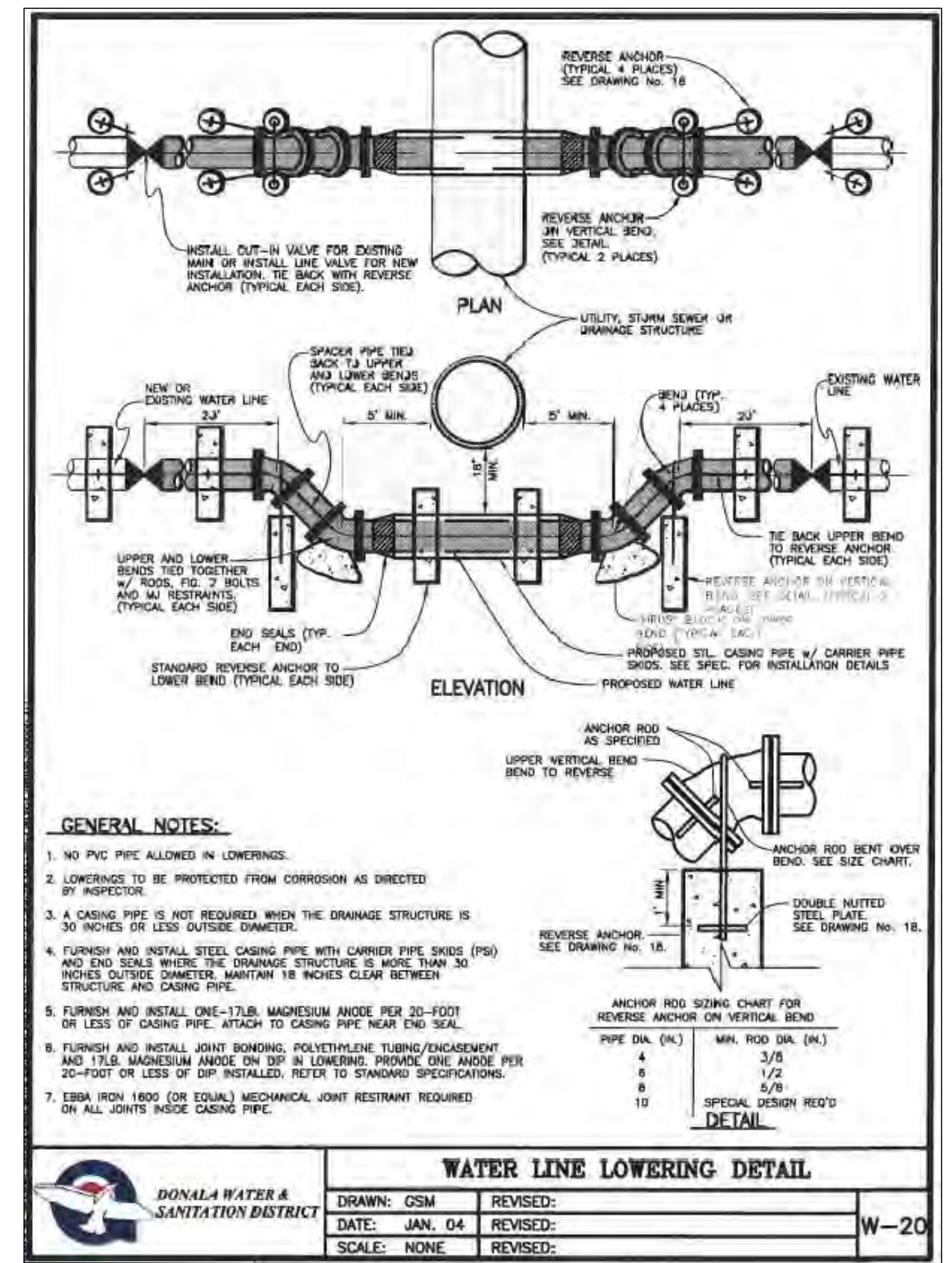
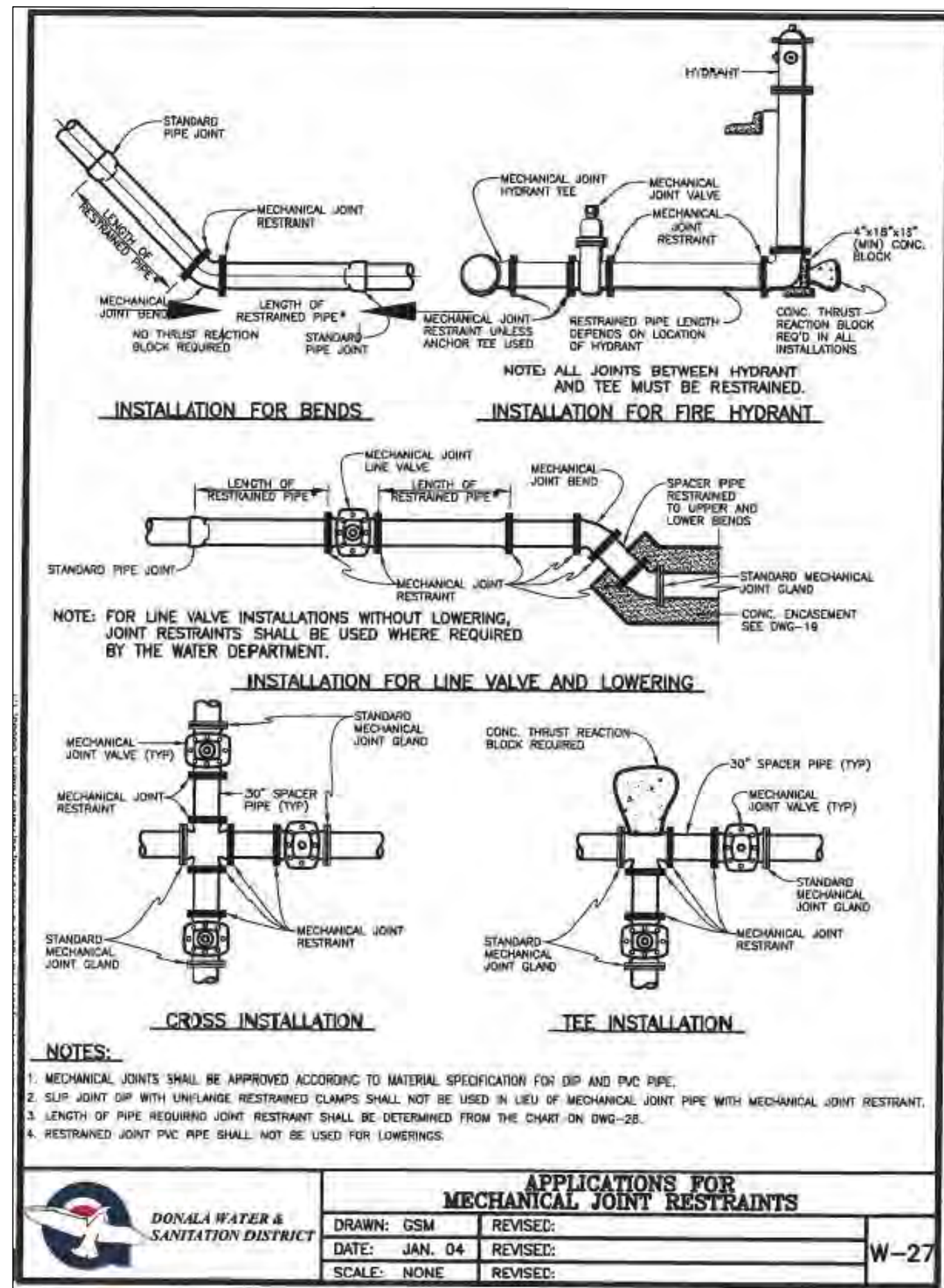
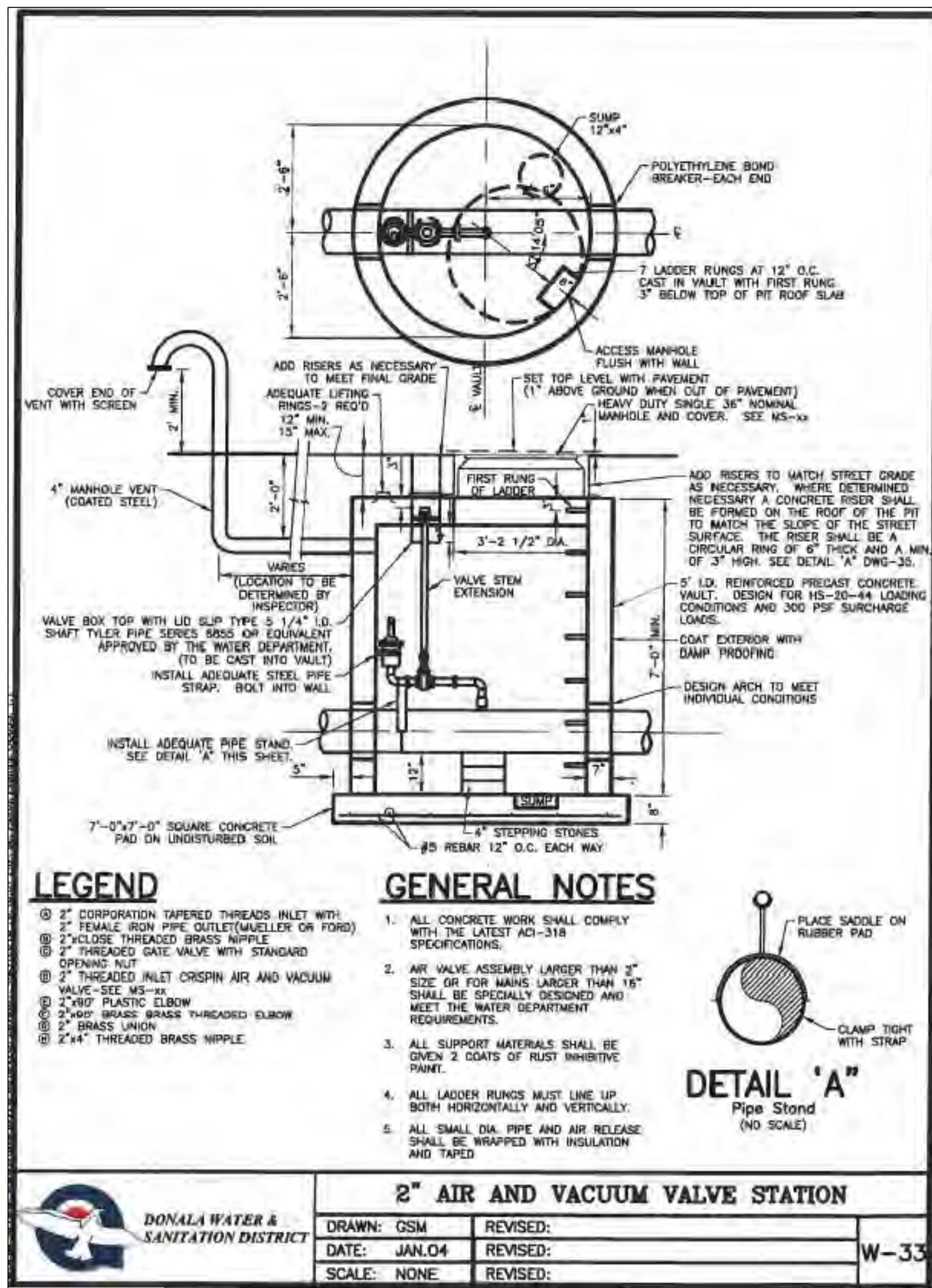
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(719) 785-0790
(719) 785-0799 (fax)

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DESIGNED BY	MES	SCALE	DATE 08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET 11 OF 12
CHECKED BY		(V) 1" = N/A	JOB NO. 1175.60

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FOREST LAKES FILING NO. 6
DETAIL SHEET

CLASSIC CONSULTING

DESIGNED BY MES SCALE DATE 08/04/2020

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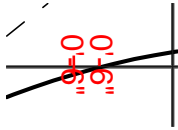
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Colorado Springs, Colorado 80903 (719) 785-0799 (fax)



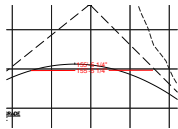
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lpackman (4)



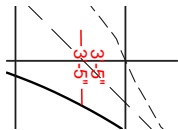
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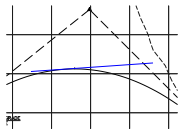
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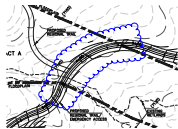
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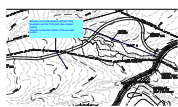


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dsdlaforce (15)

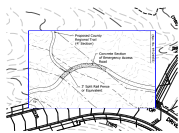


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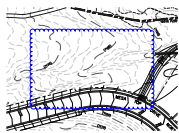


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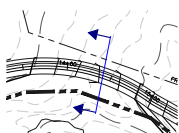
Revise to concrete section with the 100yr floodplain per the PUD plan (see snippet below). Provide construction detail of the concrete section



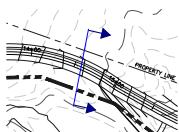
Subject: Image
 Page Label: 14
 Author: dsdlaforce
 Date: 2/22/2021 11:40:16 AM
 Status:
 Color: ■
 Layer:
 Space:



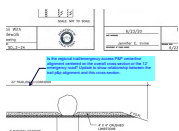
Subject: Cloud
 Page Label: 14
 Author: dsdlaforce
 Date: 2/22/2021 11:40:22 AM
 Status:
 Color: ■
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 Space:



Subject: Group
 Page Label: 15
 Author: dsdlaforce
 Date: 2/22/2021 11:46:36 AM
 Status:
 Color: ■
 Layer:
 Space:

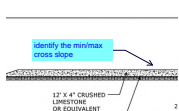


Subject: Group
 Page Label: 15
 Author: dsdlaforce
 Date: 2/22/2021 11:46:40 AM
 Status:
 Color: ■
 Layer:
 Space:



Subject: Callout
 Page Label: 7
 Author: dsdlaforce
 Date: 2/22/2021 11:52:22 AM
 Status:
 Color: ■
 Layer:
 Space:

Is the regional trail/emergency access P&P centerline alignment centered on the overall cross section or the 12' emergency road? Update to show relationship between the trail p&p alignment and this cross section.



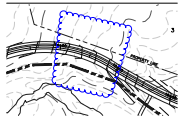
Subject: Callout
 Page Label: 7
 Author: dsdlaforce
 Date: 2/22/2021 11:53:24 AM
 Status:
 Color: ■
 Layer:
 Space:

identify the min/max cross slope

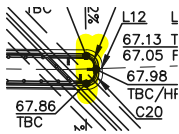


Subject: Callout
Page Label: 15
Author: dsdlaforce
Date: 2/22/2021 12:03:38 PM
Status:
Color: ■
Layer:
Space:

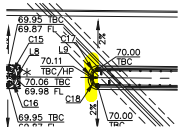
Provide additional information on either the plans or the detail such as a section cut to show the orientation of the typical cross section on page 7 since the cross section is asymmetrical.



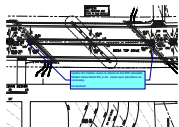
Subject: Cloud
Page Label: 15
Author: dsdlaforce
Date: 2/22/2021 5:18:49 PM
Status:
Color: ■
Layer:
Space:



Subject: Highlight
Page Label: 16
Author: dsdlaforce
Date: 2/22/2021 5:19:30 PM
Status:
Color: ■
Layer:
Space:



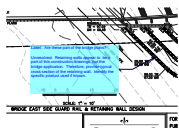
Subject: Highlight
Page Label: 16
Author: dsdlaforce
Date: 2/22/2021 5:19:32 PM
Status:
Color: ■
Layer:
Space:



Subject: Text Box
Page Label: 16
Author: dsdlaforce
Date: 2/22/2021 5:19:43 PM
Status:
Color: ■
Layer:
Space:

Update the median noses to reference the EPC plowable Median Nose Detail SD_2-22. Adjust spot elevations as necessary.

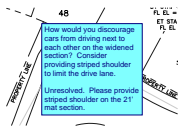
Unresolved



Subject: Callout
Page Label: 16
Author: dsdlaforce
Date: 2/23/2021 9:26:56 AM
Status:
Color: ■
Layer:
Space:

Label. Are these part of the bridge plans?

Unresolved. Retaining walls appear to be a part of this construction drawings, not the bridge application. Therefore, provide typical cross section of the retaining wall. Identify the specific product used if known.



Subject: Text Box
Page Label: 10
Author: dsdlaforce
Date: 2/23/2021 9:42:12 AM
Status:
Color: ■
Layer:
Space:

How would you discourage cars from driving next to each other on the widened section? Consider providing striped shoulder to limit the drive lane.

Unresolved. Please provide striped shoulder on the 21' mat section.