

FOREST LAKES FILING NO. 7

COUNTY OF EL PASO, STATE OF COLORADO

CONSTRUCTION PLANS

MAY 2021

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

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:

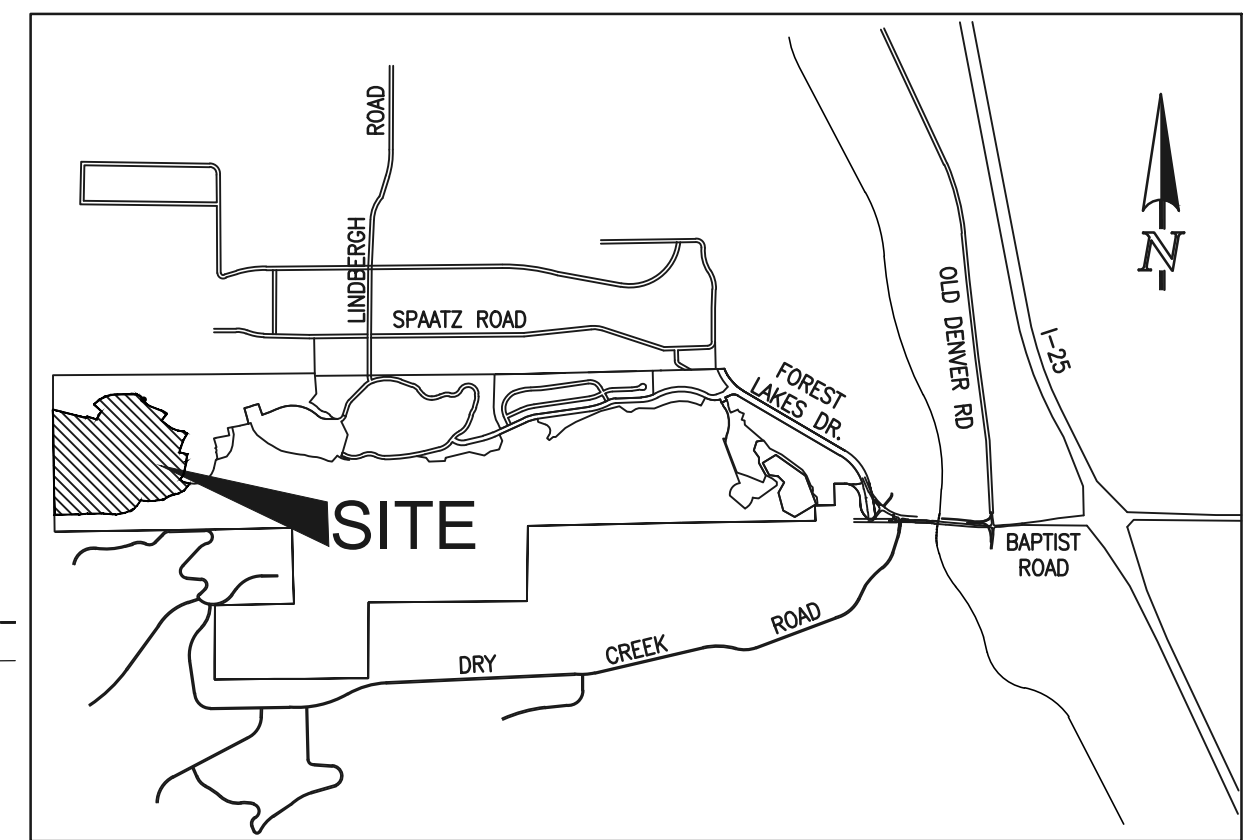
- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION 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 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
 - EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
 - COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 - CDOT M & S STANDARDS
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH 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:

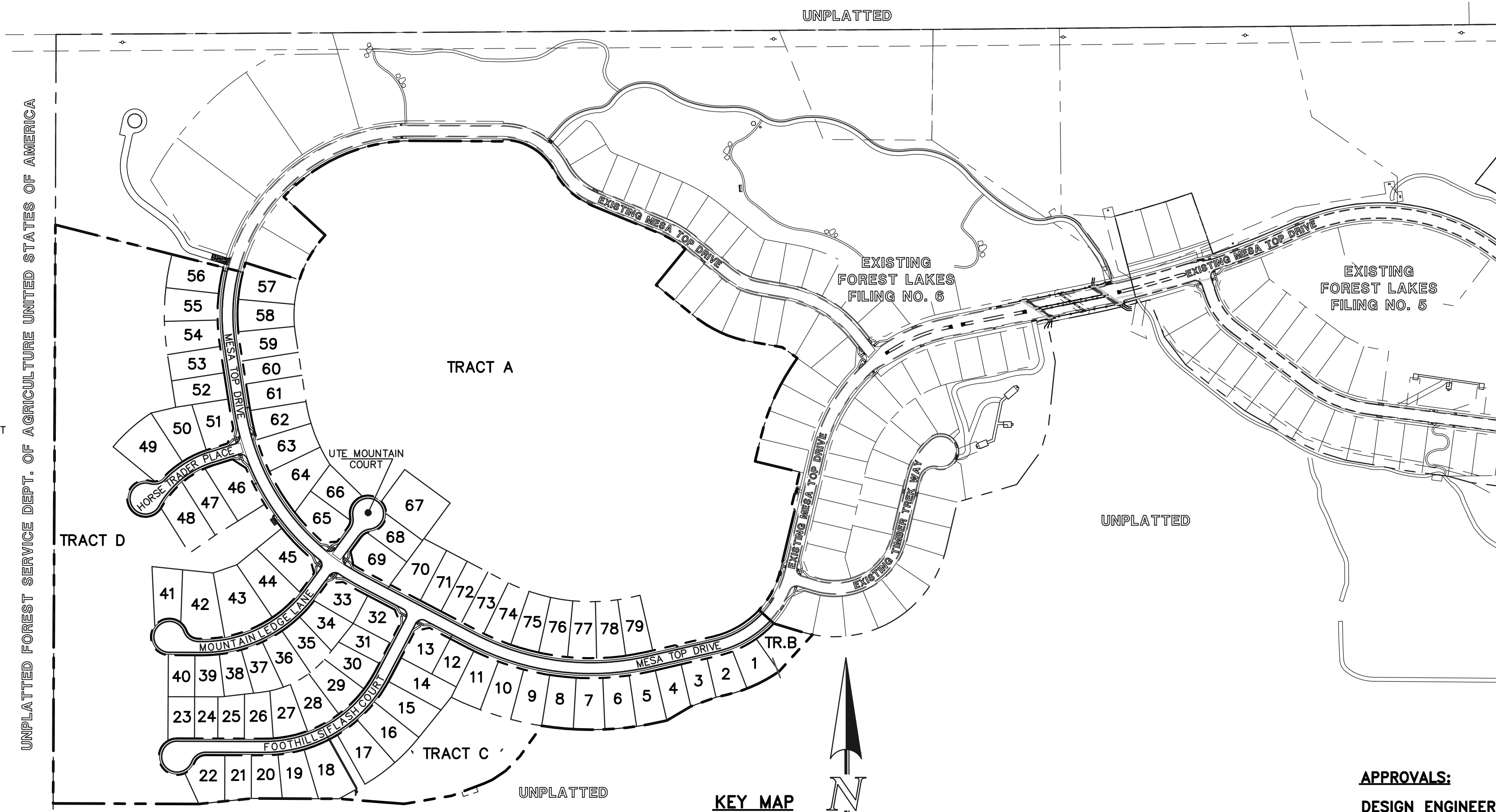
- ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT 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 REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
- ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS."
- ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
- ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
- ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
- ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS 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:

- A 1-1/2" ALUMINUM SURVEYORS CAP STAMPED "CES LLC PLS 30118" LOCATED AT THE SOUTHWESTERLY CORNER OF FOREST LAKES FILING NO. 6, APPROXIMATELY 572.93 FEET SOUTHERLY FROM THE CENTER QUARTER CORNER OF SECTION 29, TOWNSHIP 11 SOUTH, RANGE 67 WEST OF THE SIXTH PRINCIPAL MERIDIAN. ELEV. = 7302.74
- A 1-1/2" ALUMINUM SURVEYORS CAP STAMPED "CES LLC PLS 30118" LOCATED AT THE SOUTHWESTERLY CORNER OF FOREST LAKES FILING NO. 7, APPROXIMATELY 357.21 FEET NORTHERLY FROM THE SOUTH QUARTER CORNER OF SECTION 29, TOWNSHIP 11 SOUTH, RANGE 67 WEST OF THE SIXTH PRINCIPAL MERIDIAN. ELEV. = 7216.16



VICINITY MAP
NOT TO SCALE



KEY MAP
SCALE: 1" = 250'

CONSTRUCTION PLAN: SHEET INDEX

SHEET 1 OF 31	TITLE SHEET
SHEET 2 OF 31	GRADING AND EROSION CONTROL PLAN
SHEET 3 OF 31	GRADING AND EROSION CONTROL PLAN
SHEET 4 OF 31	GRADING AND EROSION CONTROL PLAN
SHEET 5 OF 31	GRADING AND EROSION CONTROL PLAN NOTES & DETAIL SHEET
SHEET 6 OF 31	GRADING AND EROSION CONTROL PLAN DETAIL SHEET
SHEET 7 OF 31	GRADING AND EROSION CONTROL PLAN DETAIL SHEET
SHEET 8 OF 31	KEY MAP WITH TYPICAL STREET SECTIONS
SHEET 9 OF 31	STREET IMPROVEMENT PLAN (MESA TOP DRIVE STA: 14+00-15+50)
SHEET 10 OF 31	STREET IMPROVEMENT PLAN (MESA TOP DRIVE STA: 15+50-END)
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SHEET 15 OF 31	STREET LIGHT POLE LOCATION PLAN
SHEET 16 OF 31	STORM SEWER PLAN & PROFILE (MAIN A, & MAIN B)
SHEET 17 OF 31	STORM SEWER PLAN & PROFILE (MAIN C)
SHEET 18 OF 31	STORM SEWER PLAN & PROFILE (MAIN D & POND OUTFALL)
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SHEET 20 OF 31	STORM SEWER PLAN & PROFILE (BYPASS SYSTEM STA: 1+00-13+50)
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SHEET 23 OF 31	POND OUTFALL - 30" IMPACT STRUCTURE & BYPASS MAIN - 48" IMPACT STRUCTURE
SHEET 24 OF 31	MAIN 'A' - 48" IMPACT STRUCTURE & FOREBAY
SHEET 25 OF 31	POND OUTLET BOX - PROFILE VIEW
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SHEET 27 OF 31	POND OUTLET BOX DETAILS
SHEET 28 OF 31	PRIVATE POND 'A' SPILLWAY DETAILS
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SHEET 31 OF 31	DETAIL SHEET

UTILITY CONSTRUCTION PLAN: SHEET INDEX

SHEET 1 OF 11	TITLE SHEET
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SHEET 3 OF 11	SANITARY SEWER PLAN - MESA TOP DR. STA: 12+50.00 - END
SHEET 4 OF 11	SANITARY SEWER PLAN - HORSE TRADER PL. & MOUNTAIN LEDGE LN.
SHEET 5 OF 11	SANITARY SEWER PLAN - FOOTHILLS FLASH CT. STA: 1+00.00 - END
SHEETS 6-9 OF 11	PUBLIC 8" PVC WATER SYSTEM PLAN
SHEET 10 OF 11	UTILITY SERVICE PLAN
SHEET 11 OF 11	UTILITY SERVICE PLAN/DETAILS

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 1895 BASE CAMP ROAD, A-7 MONUMENT, CO 80132 (888) 690-5554
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 NEGLIGENCE, ACTS, ERRORS, OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

KYLE R. CAMPBELL COLORADO P.E. #29794

DATE

FOR AND ON THE BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS

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.

JM 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

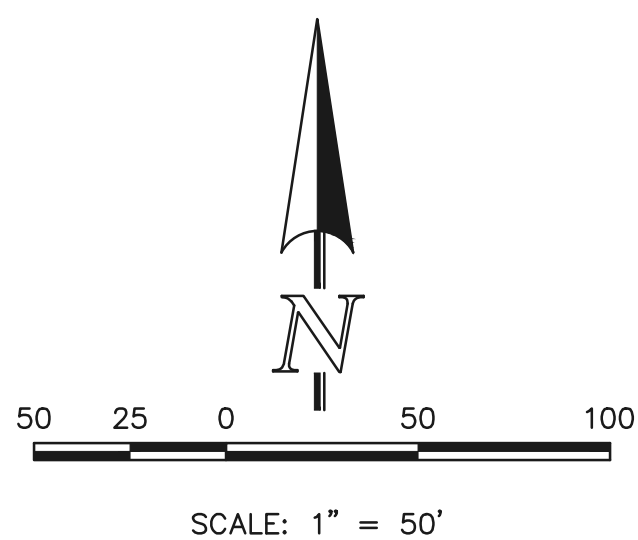
DATE

PCD FILE # SF-21-49

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

		FOREST LAKES FILING NO. 7 CONSTRUCTION PLANS TITLE SHEET	
		DESIGNED BY	MAL
DRAWN BY	MES	(H) 1" = N/A	SHEET 1 OF 31
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.70

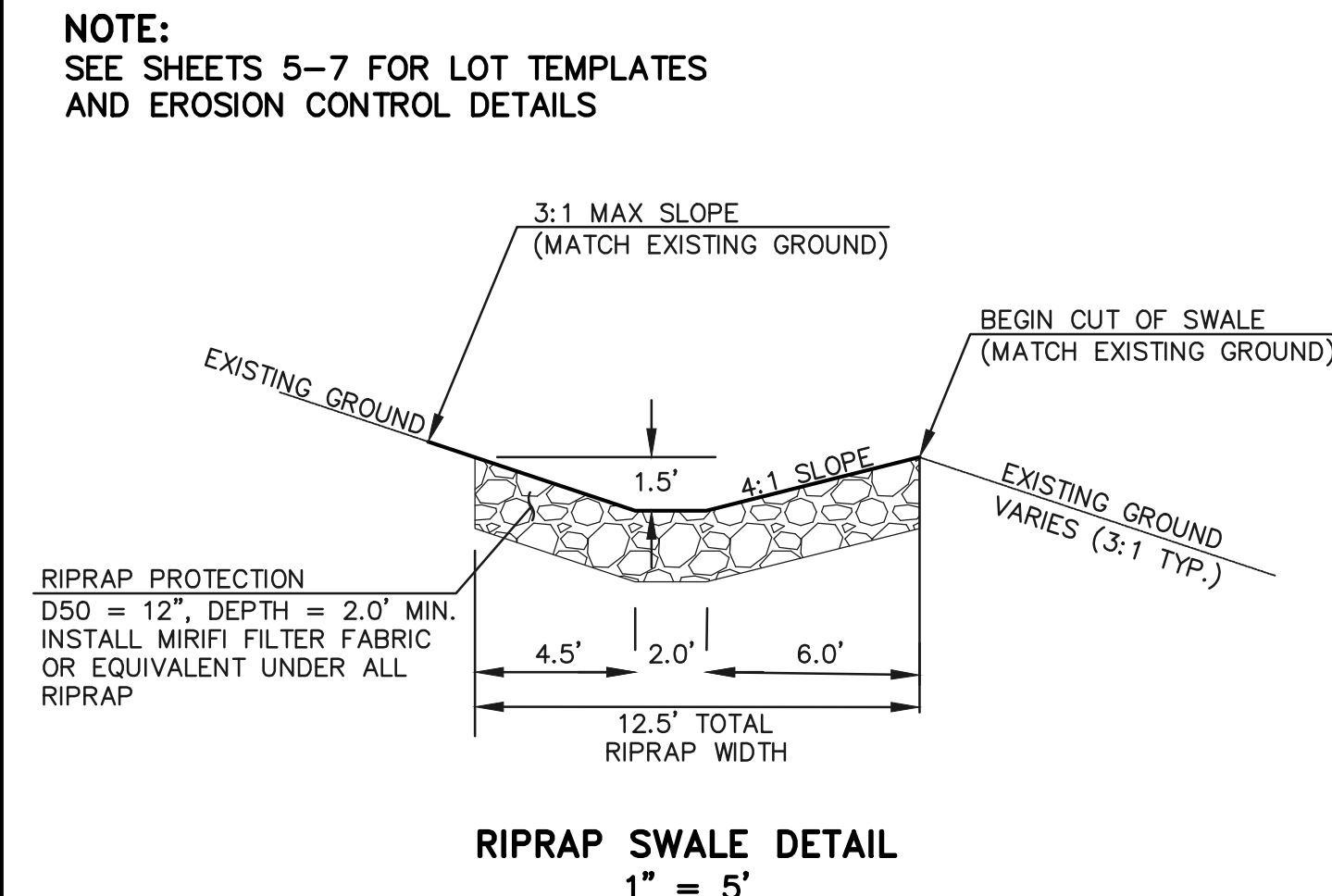




PARTIALLY GROUTED RIPRAP:
 PORTIONS OF THE PROPOSED RIPRAP SWALE ARE TO BE "PARTIALLY GROUTED" PER CDOT SPECIFICATIONS, WITH THE GROUT FILLING ONLY 1/3 TO 1/2 OF THE TOTAL VOID SPACE. PORTLAND CEMENT BASED GROUT PLACED BY HOSE OR TREMIE, OR BY AUTOMATED MECHANICAL MEANS.

NOTES:
 OVERLOT GRADING COMPLETED WITH PRE-DEVELOPMENT GRADING PLAN & PERMIT. EROSION CONTROL BLANKETS, TEMPORARY SEDIMENT BASINS, SILT FENCE & STRAW BALE BARRIERS INSTALLED PER THAT PLAN.
 THERE WILL BE NO ASPHALT, CONCRETE BATCH PLANTS AND MASONRY MIX STATIONS ON THIS SITE.

- 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 ECB EXISTING EROSION CONTROL BLANKET
- CCM PHASING**
- (INSTALLED DURING INITIAL PHASE WITH CONTINUED MAINTENANCE THROUGH INTERIM PHASE)
 - (INSTALLED PRIOR TO INITIAL PHASE (EGP) WITH CONTINUED MAINTENANCE DURING INTERIM AND VERTICAL PHASES)
 - (INSTALLED DURING INITIAL PHASE (EGP) WITH CONTINUED MAINTENANCE DURING INTERIM AND VERTICAL PHASES)
 - (INSTALL DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)
 - (INSTALL PRIOR TO INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE OR SITE PAVING)
 - (INSTALL DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)



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811
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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

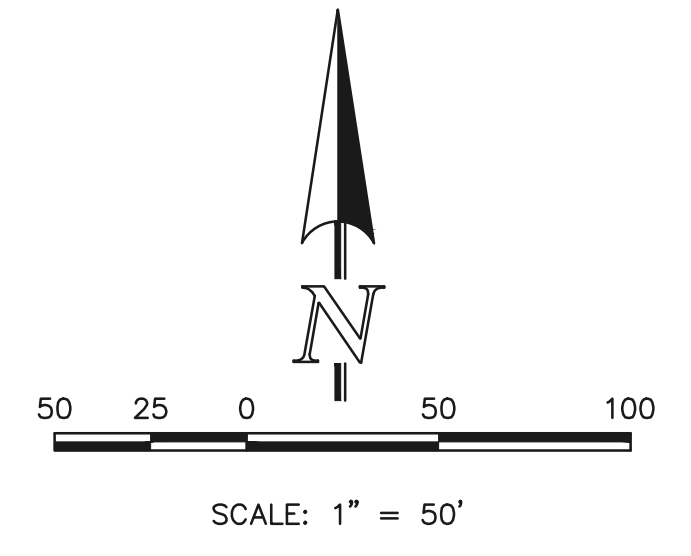


FOREST LAKES FILING NO. 7
 GRADING AND EROSION CONTROL PLAN

DESIGNED BY MAL SCALE DATE 05/21/21
 DRAWN BY MES (H) 1" = 50' SHEET 2 OF 31
 CHECKED BY (V) 1" = N/A JOB NO. 1175.70

PCD FILE # SF-21-49

MATCHLINE (SEE SHEET 2)



PARTIALLY GROUDED RIPRAP:
PORTIONS OF THE PROPOSED RIPRAP SWALE ARE TO BE "PARTIALLY GROUDED" PER CDOT SPECIFICATIONS, WITH THE GROUT FILLING ONLY 1/3 TO 1/2 OF THE TOTAL VOID SPACE. PORTLAND CEMENT BASED GROUT PLACED BY HOSE OR TREMIE, OR BY AUTOMATED MECHANICAL MEANS.

LEGEND

- (7700) EXISTING CONTOUR
- 7700 PROPOSED CONTOUR
- PROPOSED LIMITS OF GRADING/ CONSTRUCTION SITE BOUNDARY
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- "G" GARDEN LOT
- PROPOSED INLET
- PROPOSED STORM SEWER PIPE
- EXISTING HIGH POINT
- EXISTING LOW POINT
- EXISTING TEMPORARY SEDIMENT BASIN
- EXISTING SILT FENCE
- EXISTING STRAW BALE CHECK DAM
- INLET PROTECTION
- VEHICLE TRACKING CONTROL
- EXISTING EROSION CONTROL BLANKET

CCM PHASING
(INSTALLED DURING INITIAL PHASE WITH CONTINUED MAINTENANCE THROUGH INTERIM PHASE)

(INSTALLED PRIOR TO INITIAL PHASE (EGP) WITH CONTINUED MAINTENANCE DURING INTERIM AND VERTICAL PHASES)

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(INSTALL DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)

(INSTALL PRIOR TO INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE OR SITE PAVING)

(INSTALL DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)

NOTES:
OVERLOT GRADING COMPLETED WITH PRE-DEVELOPMENT GRADING PLAN & PERMIT. EROSION CONTROL BLANKETS, TEMPORARY SEDIMENT BASINS, SILT FENCE & STRAW BALE BARRIERS INSTALLED PER THAT PLAN.
THERE WILL BE NO ASPHALT, CONCRETE BATCH PLANTS AND MASONRY MIX STATIONS ON THIS SITE.

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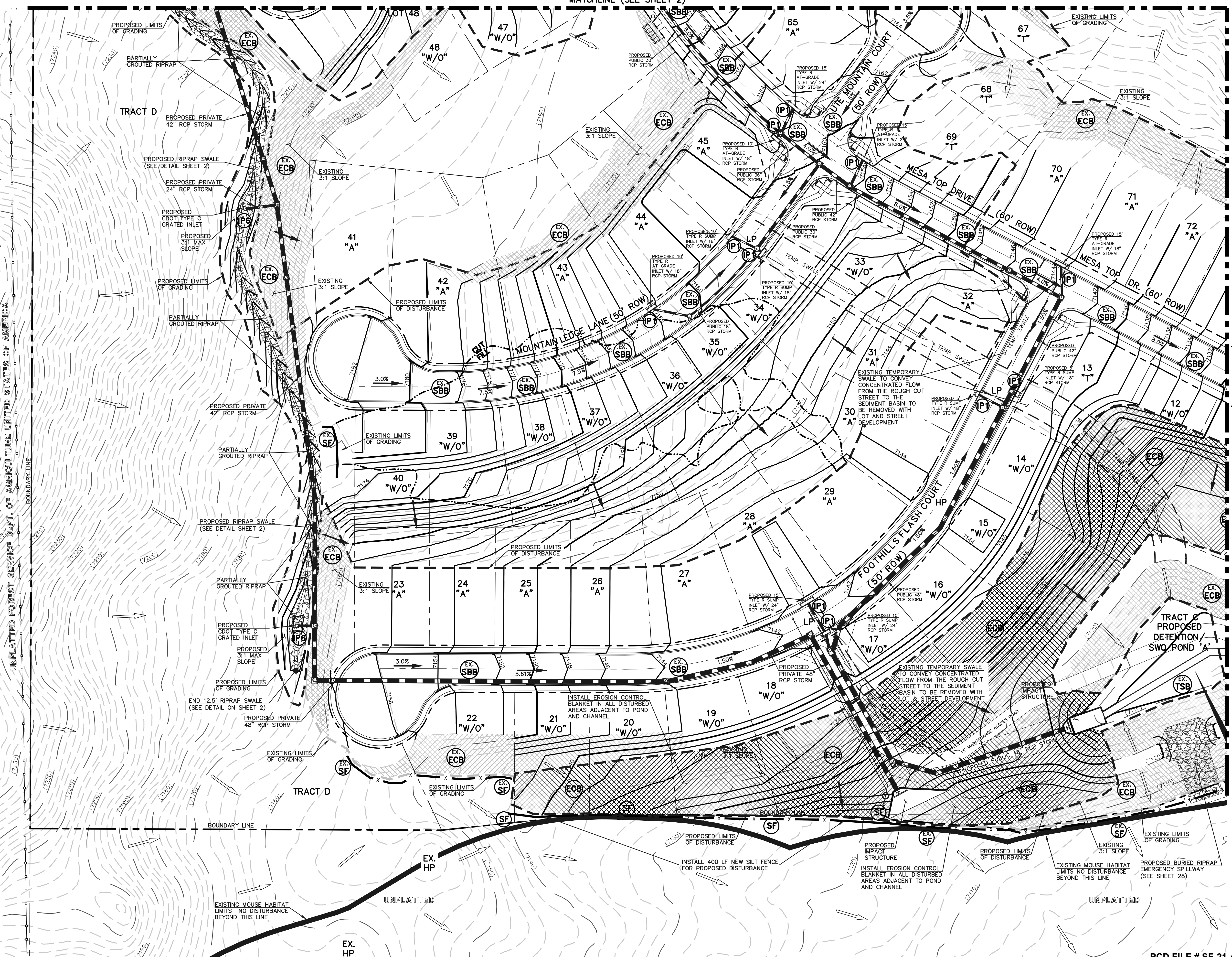
NO.	REVISION	DATE

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



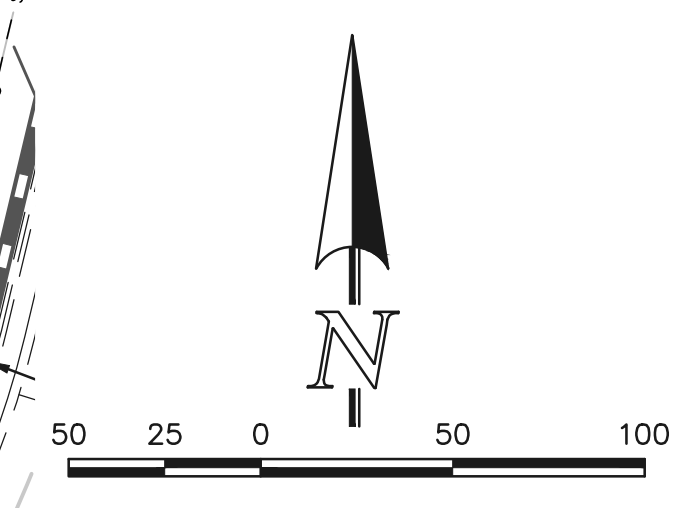
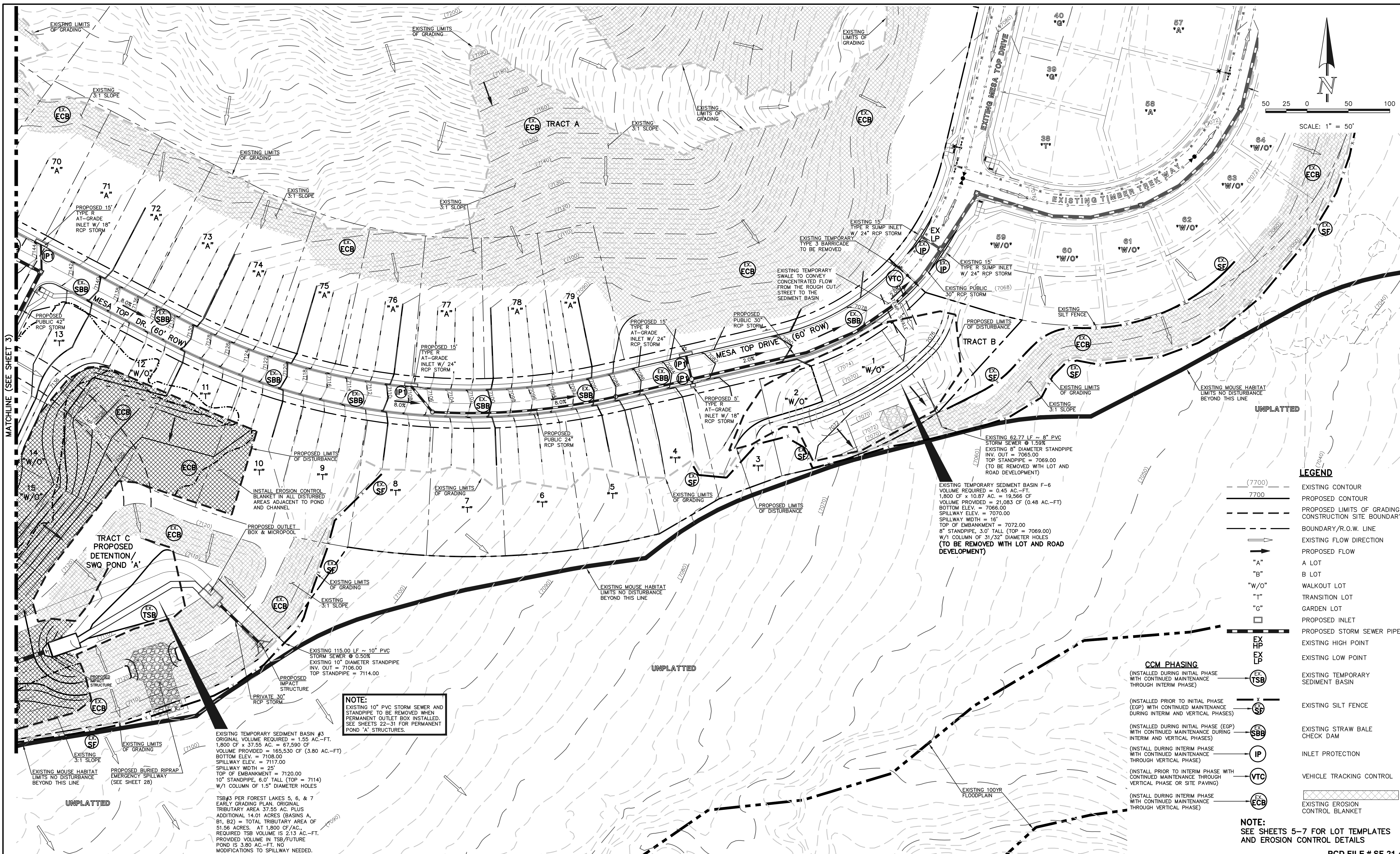
FOREST LAKES FILING NO. 7
GRADING AND EROSION CONTROL PLAN
DESIGNED BY MAL SCALE DATE 05/21/21
DRAWN BY MES (H) 1" = 50' SHEET 3 OF 31
CHECKED BY (V) 1" = N/A JOB NO. 1175.70

PCD FILE # SF-21-49



MATCHLINE (SEE SHEET 4)

N:\117570\DRAWINGS\CONSTRUCTION\GRADING-EROSION\03-117570-GR-02.dwg, 2/17/2022, 2:11:45 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
 - (---) EX IP INLET PROTECTION
 - (---) EX VTC VEHICLE TRACKING CONTROL
 - (---) EX ECB EXISTING EROSION CONTROL BLANKET

- CCM PHASING**
- (---) (INSTALLED DURING INITIAL PHASE WITH CONTINUED MAINTENANCE THROUGH INTERIM PHASE)
 - (---) (INSTALLED PRIOR TO INITIAL PHASE WITH CONTINUED MAINTENANCE DURING INTERIM AND VERTICAL PHASES)
 - (---) (INSTALLED DURING INITIAL PHASE (EGP) WITH CONTINUED MAINTENANCE DURING INTERIM AND VERTICAL PHASES)
 - (---) (INSTALL DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)
 - (---) (INSTALL PRIOR TO INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE OR SITE PAVING)
 - (---) (INSTALL DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)

EXISTING 62.77 LF ~ 8" PVC STORM SEWER @ 1.59%
 EXISTING 8" DIAMETER STANDPIPE INV. OUT = 7065.00
 TOP STANDPIPE = 7069.00
 (TO BE REMOVED WITH LOT AND ROAD DEVELOPMENT)

NOTE:
 EXISTING 10" PVC STORM SEWER AND STANDPIPE TO BE REMOVED WHEN PERMANENT OUTLET BOX INSTALLED. SEE SHEETS 22-31 FOR PERMANENT POND 'A' STRUCTURES.

EXISTING TEMPORARY SEDIMENT BASIN #3
 ORIGINAL VOLUME REQUIRED = 1.55 AC.-FT.
 1,800 CF x 37.55 AC. = 67,590 CF
 VOLUME PROVIDED = 165,530 CF (3.80 AC.-FT)
 BOTTOM ELEV. = 7108.00
 SPILLWAY ELEV. = 7117.00
 SPILLWAY WIDTH = 25'
 TOP OF EMBANKMENT = 7120.00
 10" STANDPIPE, 6.0' TALL (TOP = 7114)
 W/1 COLUMN OF 1.5" DIAMETER HOLES

TSB#3 PER FOREST LAKES 5, 6, & 7
 EARLY GRADING PLAN, ORIGINAL TRIBUTARY AREA 37.55 AC. PLUS ADDITIONAL 14.01 ACRES (BASINS A, B1, B2) = TOTAL TRIBUTARY AREA OF 51.56 ACRES. AT 1,800 CF/AC, REQUIRED TSB VOLUME IS 213 AC.-FT. PROVIDED VOLUME IN TSB/FUTURE POND IS 3.80 AC.-FT. NO MODIFICATIONS TO SPILLWAY NEEDED.

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FOREST LAKES FILING NO. 7
 GRADING AND EROSION CONTROL PLAN

DESIGNED BY MAL SCALE DATE 05/21/21
 DRAWN BY MES (H) 1" = 50' SHEET 4 OF 31
 CHECKED BY (V) 1" = N/A JOB NO. 1175.70

NOTES:
 OVERLOT GRADING COMPLETED WITH PRE-DEVELOPMENT GRADING PLAN & PERMIT. EROSION CONTROL BLANKETS, TEMPORARY SEDIMENT BASINS, SILT FENCE & STRAW BALE BARRIERS INSTALLED PER THAT PLAN.
 THERE WILL BE NO ASPHALT, CONCRETE BATCH PLANTS AND MASONRY MIX STATIONS ON THIS SITE.

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PCD FILE # SF-21-49

NOTES

- PROVIDE CENTRAL CONSTRUCTION OR TOOL JOINT WHEN DRIVEWAY WIDTH EXCEEDS TO EDGE IS 14' OR GREATER.
- ALL TOOL JOINTS SHALL BE A MINIMUM OF 1'-8" DEEP.
- WHEN REPLACING EXISTING CURB AND GUTTER WITH NEW DRIVEWAY, EXISTING CURB AND GUTTER SECTION SHALL BE REMOVED AND REPLACED WITH CURB AND GUTTER (FINISH-TO-CURB-HEIGHT) AS SHOWN. DO NOT BREAK CURB FROM GUTTER SECTION.
- FLARED PORTION OF DRIVEWAY SHALL BE POURED MONOLITHIC WITH MAIN RECTANGULAR PORTION OF DRIVEWAY.
- WHEN THERE IS MORE THAN ONE DRIVEWAY ON A LOT, THE SPACING OF THE DRIVEWAYS SHALL MEET REQUIREMENTS IN E.C.B.
- WHERE AN EXISTING DRIVEWAY IS IN PLACE, AND ITS THICKNESS IS LESS THAN 8" (RESIDENTIAL) OR 8" (COMMERCIAL AND INDUSTRIAL), THE SIDEWALK THROUGH THE DRIVEWAY SHALL BE THICKENED AND REPLACED WITH PORTLAND CEMENT CONCRETE AT THE REQUIRED THICKNESS.
- WHEN A DRIVEWAY IS TO BE TIED OUT OF SERVICE, THE ENTIRE LENGTH OF CURB AND GUTTER SHALL BE REMOVED AND REPLACED WITH NEW CURB AND GUTTER.
- ALL PROVISIONS IN THE LAND DEVELOPMENT CODE SHALL BE MET, WITH REGARD TO MINIMUM SETBACK FROM INTERSECTION AND SIDE PROPERTY LINES, MINIMUM SPACING, MINIMUM WIDTH, ETC.
- SIDEWALKS ACROSS DRIVEWAYS SHALL BE ACCESSIBLE AND COMPLIANT WITH REQUIREMENTS OF E.C.B. CHAPTER 6.

TOOL JOINT SPACING

DRIVEWAY WIDTH	A	B
12'	7'	3'-4"
14'	7'	3'-4"
16'	8'	4'-0"
18'	8'	4'-0"
20'	9'	4'-0"
22'	10'	5'-0"
24'	10'	5'-0"
26'	11'	5'-0"
28'	11'	5'-0"
30'	12'	5'-0"

SCALE: NOT TO SCALE

6/23/20
DATE APPROVED: Jennifer E. Irvine
REVISION DATE: 6/23/20
FILE NAME: SD_2-24

NOTES

- PROVIDE CENTRAL CONSTRUCTION OR TOOL JOINT WHEN DRIVEWAY WIDTH EXCEEDS TO EDGE IS 14' OR GREATER.
- ALL TOOL JOINTS SHALL BE A MINIMUM OF 1'-8" DEEP.
- WHEN REPLACING EXISTING CURB AND GUTTER WITH NEW DRIVEWAY, EXISTING CURB AND GUTTER SECTION SHALL BE REMOVED AND REPLACED WITH CURB AND GUTTER (FINISH-TO-CURB-HEIGHT) AS SHOWN. DO NOT BREAK CURB FROM GUTTER SECTION.
- FLARED PORTION OF DRIVEWAY SHALL BE POURED MONOLITHIC WITH MAIN RECTANGULAR PORTION OF DRIVEWAY.
- WHEN THERE IS MORE THAN ONE DRIVEWAY ON A LOT, THE SPACING OF THE DRIVEWAYS SHALL MEET REQUIREMENTS IN E.C.B.
- WHERE AN EXISTING DRIVEWAY IS IN PLACE, AND ITS THICKNESS IS LESS THAN 8" (RESIDENTIAL) OR 8" (COMMERCIAL AND INDUSTRIAL), THE SIDEWALK THROUGH THE DRIVEWAY SHALL BE THICKENED AND REPLACED WITH PORTLAND CEMENT CONCRETE AT THE REQUIRED THICKNESS.
- WHEN A DRIVEWAY IS TO BE TIED OUT OF SERVICE, THE ENTIRE LENGTH OF CURB AND GUTTER SHALL BE REMOVED AND REPLACED WITH NEW CURB AND GUTTER.
- ALL PROVISIONS IN THE LAND DEVELOPMENT CODE SHALL BE MET, WITH REGARD TO MINIMUM SETBACK FROM INTERSECTION AND SIDE PROPERTY LINES, MINIMUM SPACING, MINIMUM WIDTH, ETC.
- SIDEWALKS ACROSS DRIVEWAYS SHALL BE ACCESSIBLE AND COMPLIANT WITH REQUIREMENTS OF E.C.B. CHAPTER 6.

TOOL JOINT SPACING

DRIVEWAY WIDTH	A	B
12'	7'	3'-4"
14'	7'	3'-4"
16'	8'	4'-0"
18'	8'	4'-0"
20'	9'	4'-0"
22'	10'	5'-0"
24'	10'	5'-0"
26'	11'	5'-0"
28'	11'	5'-0"
30'	12'	5'-0"

SCALE: NOT TO SCALE

6/23/20
DATE APPROVED: Jennifer E. Irvine
REVISION DATE: 6/23/20
FILE NAME: SD_2-25

PEDESTRIAN RAMP NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT ENGINEERING DESIGN MANUAL AND ALL REQUIREMENTS.
- CONTRACTOR TO NOTIFY ENGINEERING DIVISION INSPECTION STAFF 48 HOURS PRIOR TO CONCRETE PLACEMENT.
- PEDESTRIAN CURB RAMP CONSTRUCTION SHALL BE A MINIMUM 4,500 PSI CONCRETE, MINIMUM 4" THICK, NON-COLORED, NON-SCORED, COMB BROOM FINISH.
- PEDESTRIAN CURB RAMP LOCATION AND LENGTH MAY REQUIRE MODIFICATION TO MAINTAIN THE 8.3% MAXIMUM RUNNING RAMP SLOPE DUE TO STREET INTERSECTION GRABES AND/OR ADJUSTMENTS. SEE E.C.B. SECTION 6.3.8 FOR PEDESTRIAN PUSHBUTTON LOCATION REQUIREMENTS.
- DETECTABLE WARNING SURFACE SHALL START A MINIMUM OF 6" BUT NOT MORE THAN 8" FROM THE FLOWLINE OF THE CURB AT ANY POINT.
- DETECTABLE WARNING SURFACE SHALL BE PREFABRICATED, CAST IRON (PATINA NATURAL FINISH) AND IN ACCORDANCE WITH E.C.B. CHAPTER 6 AND SD-2-42. THERMOPLASTIC TRUNCATED DOMES AND PAVERS WILL NOT BE ACCEPTED.
- THE DETECTABLE WARNING SURFACE SHALL BE 24" IN LENGTH AND THE FULL WIDTH OF THE RAMP.
- PEDESTRIAN CURB RAMP WIDTH REQUIRED IS SAME AS APPROACHING SIDEWALK, 4" MINIMUM.
- ALL PEDESTRIAN CURB RAMP SHALL BE PERPENDICULAR TO TRAFFIC WITH THE EXCEPTION OF MID-BLOCK OR TERMINAL RAMP WHICH MAY BE PARALLEL, SUBJECT TO APPROVAL.
- DRAINAGE STRUCTURES, TRAFFIC SIGNAL/SIGNAL UTILITIES/JUNCTION BOXES, OR OTHER OBSTRUCTIONS WITHIN PROPOSED PEDESTRIAN CURB RAMP AREAS AND LANINGS ARE PROHIBITED.
- THE COUNTERSLOPE OF THE GUTTER OR ROAD AT THE FOOT OF A RAMP SHALL NOT EXCEED 5%.

GENERAL NOTES

- WHERE THE 1'-8" FLARED SIDING OF A PERPENDICULAR CURB RAMP IS LINED CONTIGUOUS WITH A PEDESTRIAN OR HARD SURFACE AREA (PEDESTRIAN CIRCULATION PAINT), THE MAXIMUM FLARE SLOPE SHALL NOT EXCEED 1:1.
- PEDESTRIAN WALKWAYS (PEDESTRIAN ACCESS ROUTES) AND/OR LOCATION OF EXISTING OR FUTURE PEDESTRIAN RAMPS ON OPPOSITE CORNERS SHALL BE REVIEWED BEFORE CONSTRUCTING NEW RAMPS.
- AT MARKED PEDESTRIAN CROSSINGS, THE BOTTOM OF THE RAMPS, EXCLUSIVE OF THE FLARE SIDING, SHALL BE TOTALLY CONTAINED WITHIN THE MARKINGS.

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FILE NAME: SD_2-41

TRUNCATED DOME DETAILS

THE TOP DIAMETER OF THE TRUNCATED DOMES SHALL BE 5/8" OR OF THE BASE DIAMETER

1.8" MIN - 2.4" MAX (EQUAL BOTH DIRECTIONS)

0.2"

0.9" - 1.4"

6" WIDE X VARIABLE HEIGHT (6" TO 8") MONOLITHIC CURB

5" SIDEWALK SLOPE, 2% MAX - 1.5% PREF.

1/2" MAX MATCH FLOWLINE OF GUTTER

3/4" DIA DRAINAGE WEEP HOLE

8.3% MAX. SLOPE, 7.5% MAX. PREF. (TYP.)

DETECTABLE WARNING SURFACE (CAST IRON - PATINA NATURAL FINISH)

2'-0"

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FILE NAME: SD_2-42

6/23/20
DATE APPROVED: Jennifer E. Irvine
REVISION DATE: 6/23/20
FILE NAME: SD_2-50

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 ¹	Expected Longevity
	Maximum Gradient	C Factor ²			
Mulch Control Mats	5:1 (H:V)	≤ 0.10	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	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	1.5 lbs/ft ² (72 Pa)	50 lbs/ft (0.75 kN/m)	
Double-net Erosion Control Blankets	2:1 (H:V)	≤ 0.20	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	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	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	2.25 lbs/ft ² (108 Pa)	125 lbs/ft (1.82 kN/m)	36 months

* C Factor and shear stress for mulch control matting must be obtained with netting used in conjunction with pre-applied mulch material. (See Section 5.3 of Chapter 7 Construction BMPs for more information on the C Factor.)

¹ Minimum Average Roll Values, Machine direction using ECTC Mod. ASTM D 5035.

² 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.

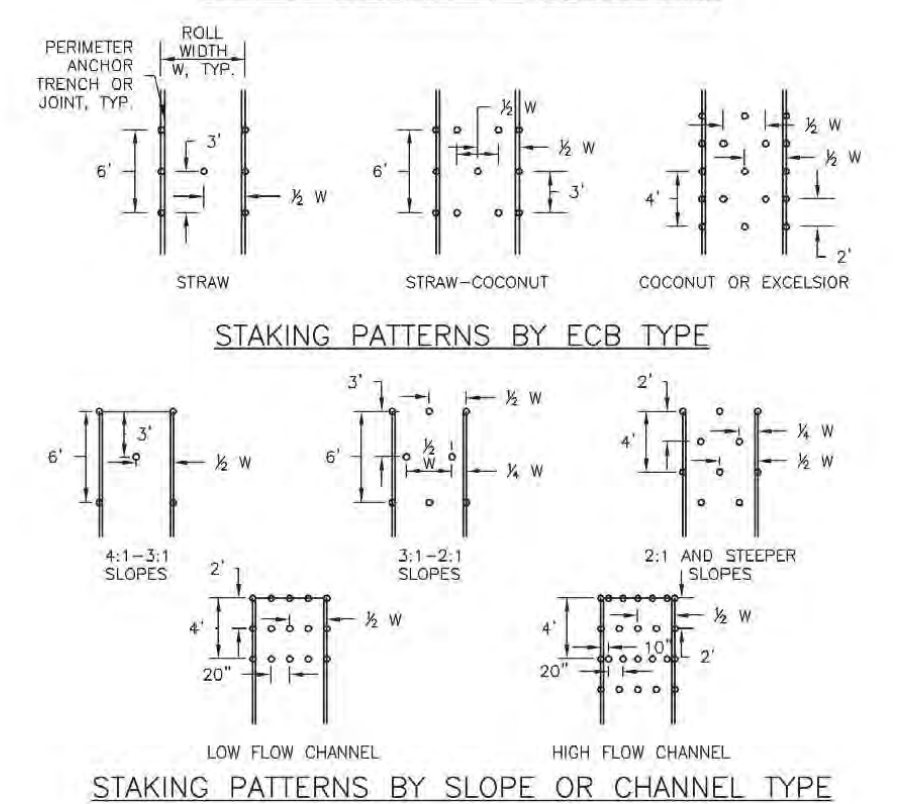
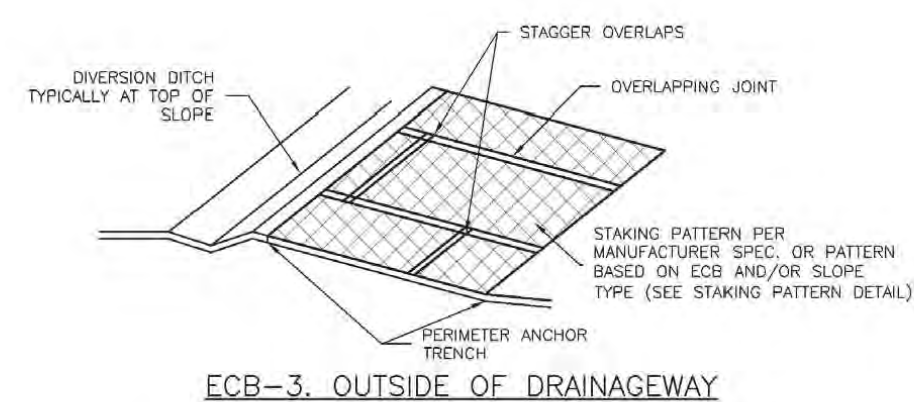
³ Required minimum shear stress RECP (vegetated) can sustain without physical damage or excess erosion (> 12.7 mm (0.5 in) soil loss) during a 30-minute flow event in large-scale testing.

⁴ 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.

⁵ Acceptable large-scale test methods may include ASTM D 6459, or other independent testing deemed acceptable by the engineer.

⁶ For the engineer's discretion, recommended acceptable large-scale testing protocol may include ASTM D 6460, or other independent testing deemed acceptable by the engineer.

Rolled Erosion Control Products (RECP) EC-6



EC-6 Rolled Erosion Control Products (RECP)

- EROSION CONTROL BLANKET INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
 - LOCATION OF ECB.
 - TYPE OF ECB (STRAW, STRAW-COCOONUT, COCONUT, OR EXCELSIOR).
 - 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. SURFACING SHALL BE COMPLETED PRIOR TO ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.
 - PERMITTED 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 EXCELSIOR 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 RESEEDED AND MULCHED.
 - DETAILS ON DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF DIFFERENT FROM THOSE SHOWN HERE.

TABLE ECB-1. ECB MATERIAL SPECIFICATIONS

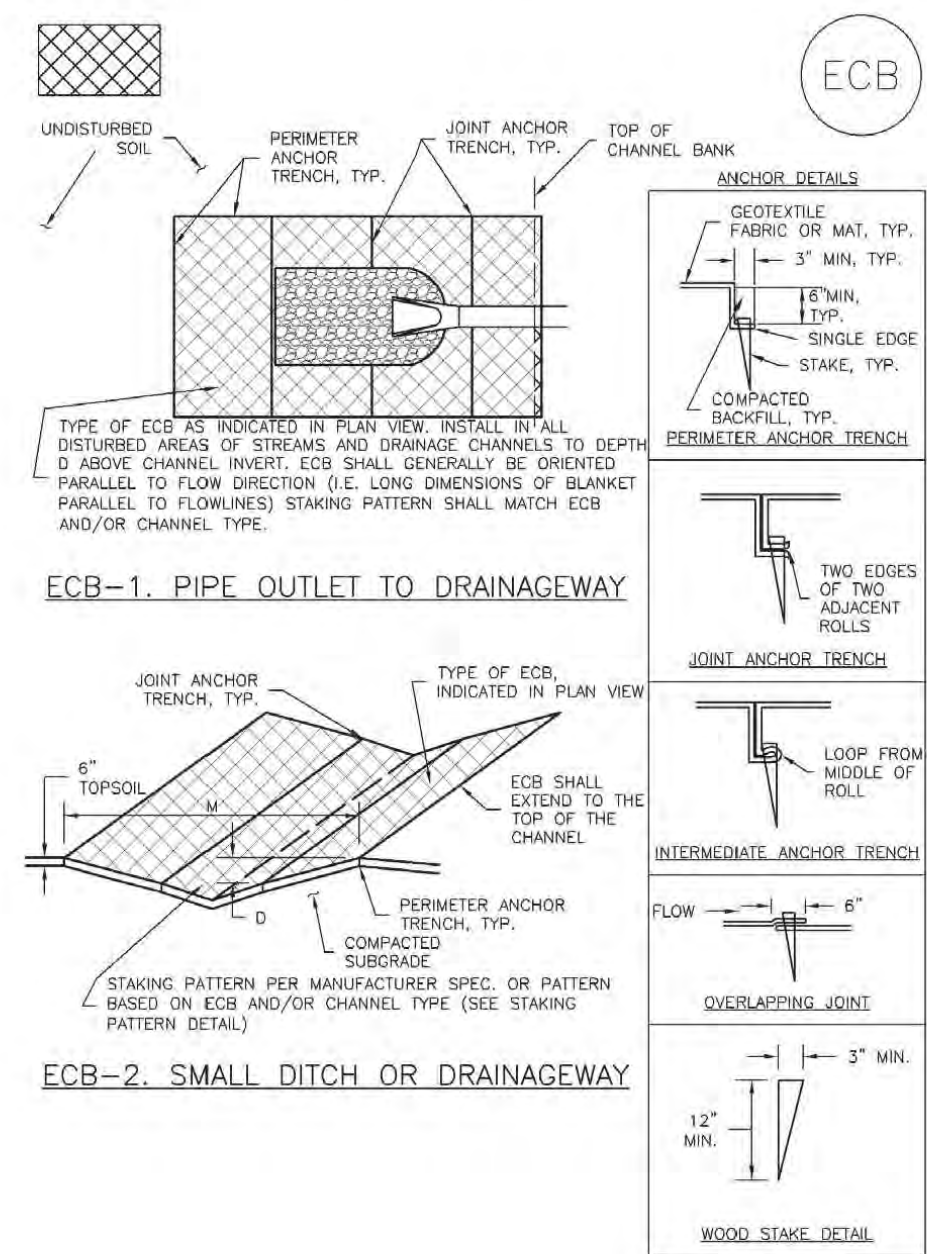
TYPE	COCOONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDED NETTING**
STRAW*	-	100%	-	DOUBLE/NATURAL
STRAW-COCOONUT	30% MIN	70% MAX	-	DOUBLE/NATURAL
COCOONUT	100%	-	-	DOUBLE/NATURAL
EXCELSIOR	-	-	100%	DOUBLE/NATURAL

* STRAW ECBs MAY ONLY BE USED ON SLOPES OF 2:1 AND SHALLOW CHANNELS. ALTERNATE NETTING MAY BE REQUIRED IN SOME JURISDICTIONS.

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.
 - 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 REPLACED. ANY SUBGRADE BELOW THE GEOTEXTILE THAT HAS BEEDED TO CREATED A VOID UNDER THE BLANKET, OR THAT REMAINS DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED 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)

EC-6 Rolled Erosion Control Products (RECP)



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

PCD FILE # SF-21-49

FOREST LAKES FILING NO. 7
CONSTRUCTION PLANS
GRADING AND EROSION CONTROL PLAN
DETAIL SHEET

DESIGNED BY: MAL SCALE: DATE: 05/21/21

DRAWN BY: MES (H) 1" = N/A SHEET 6 OF 31

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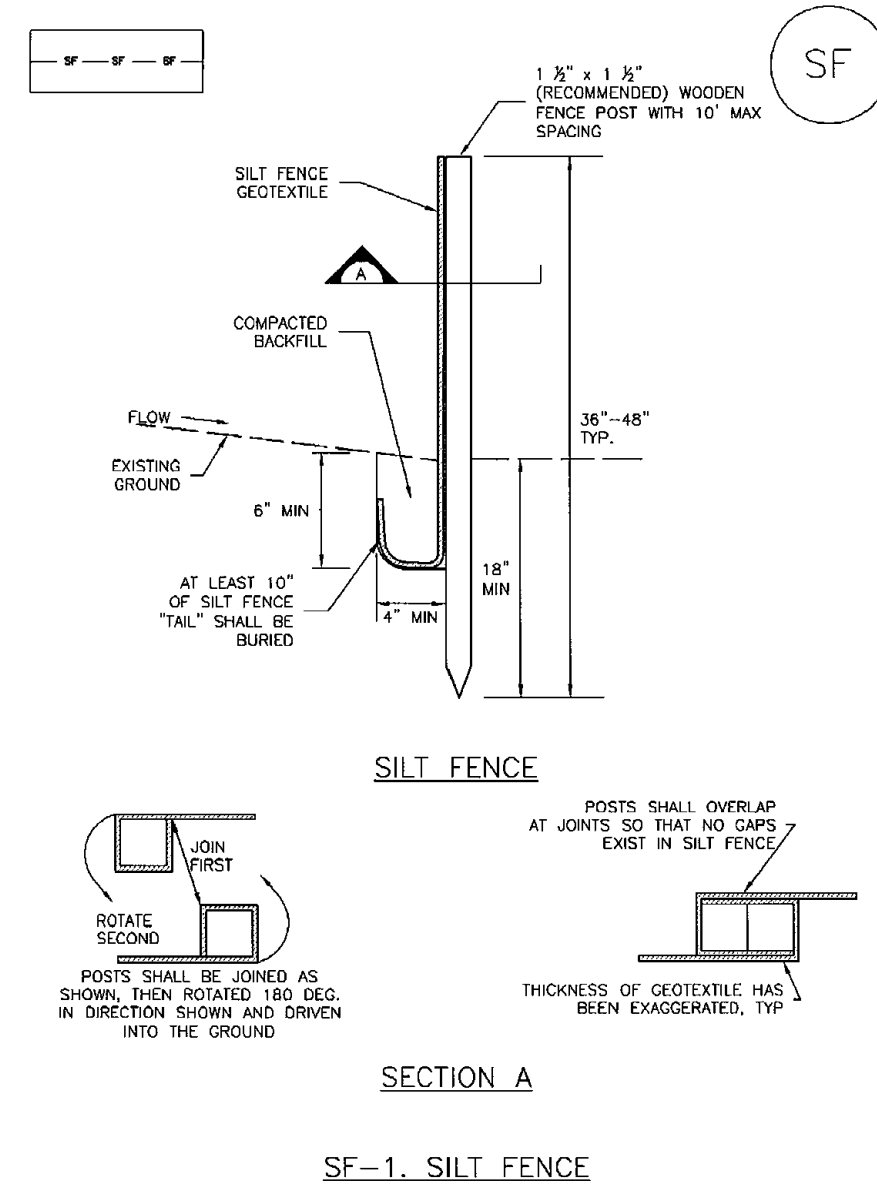
CLASSIC CONSULTING

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

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

Silt Fence (SF)

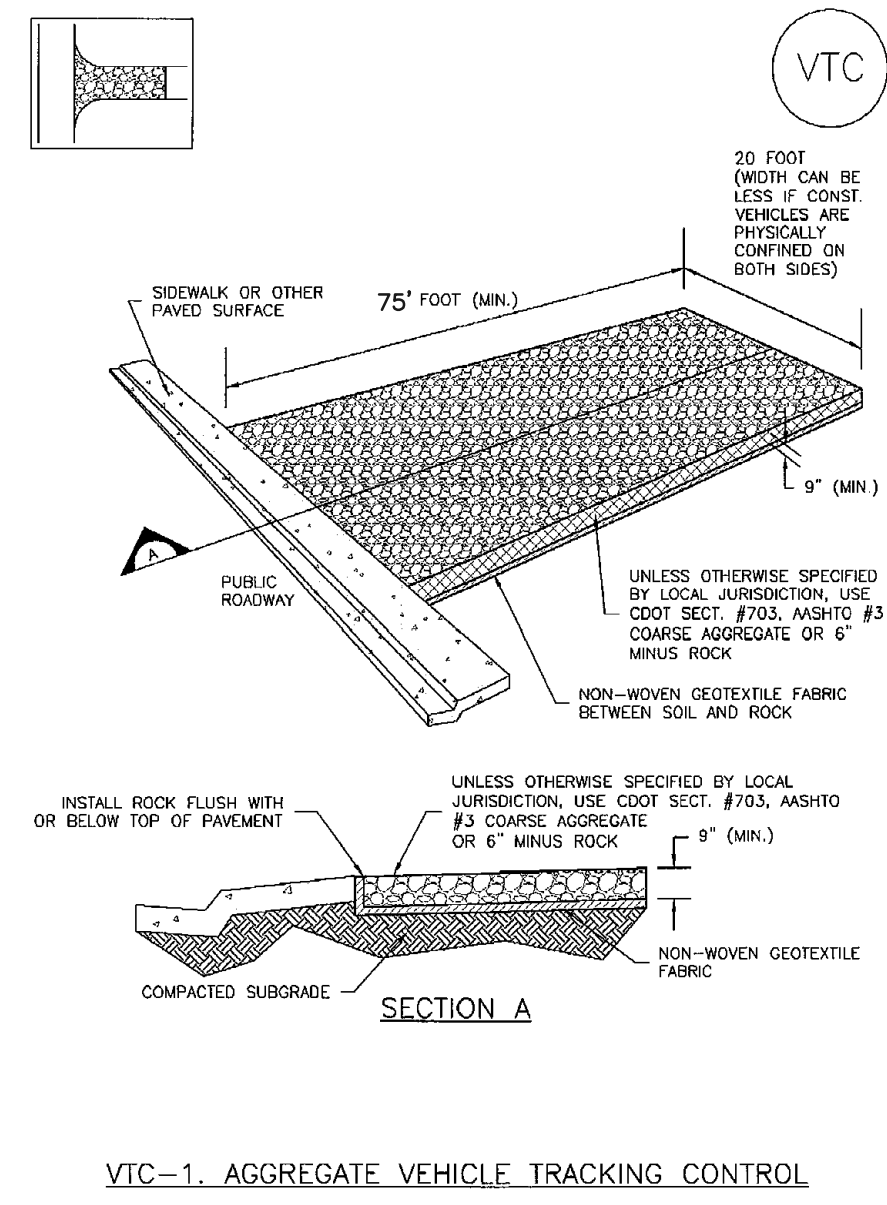
SC-1



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Vehicle Tracking Control (VTC)

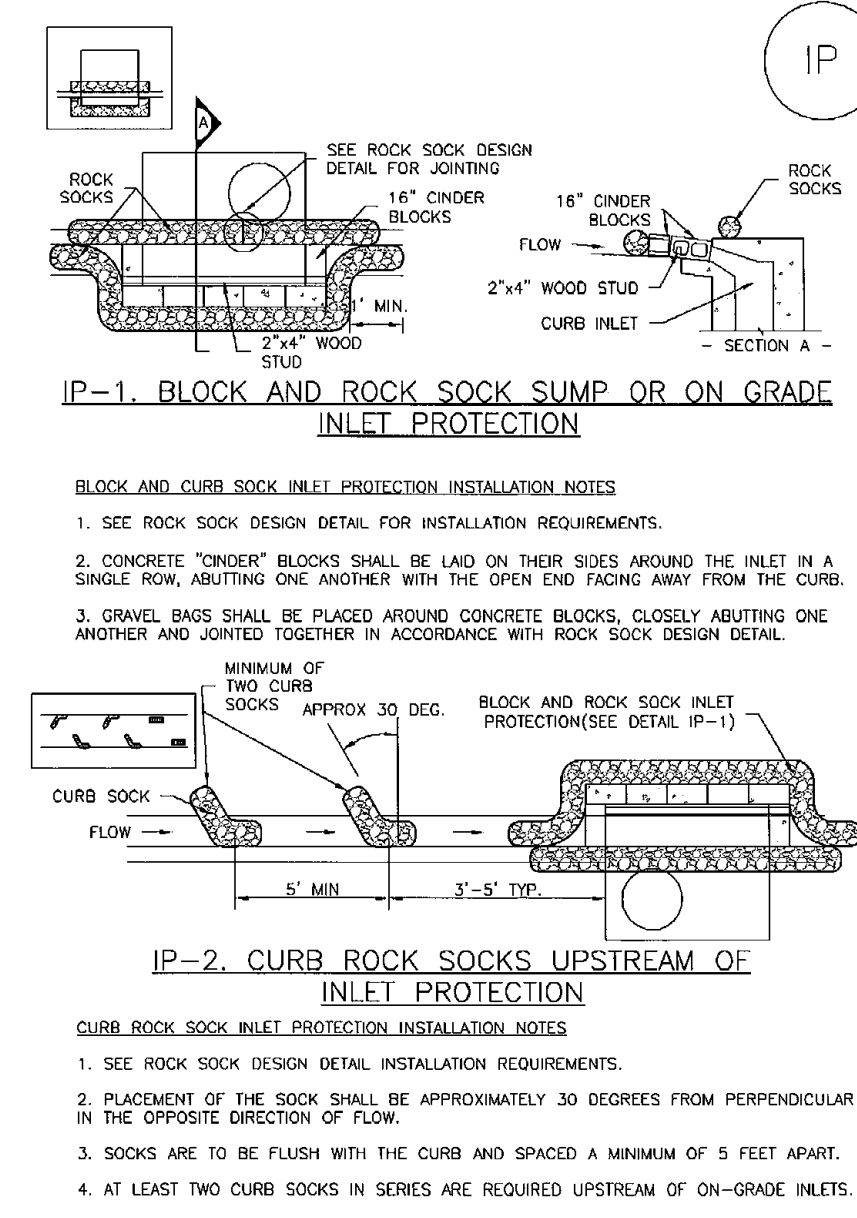
SM-4



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SC-6

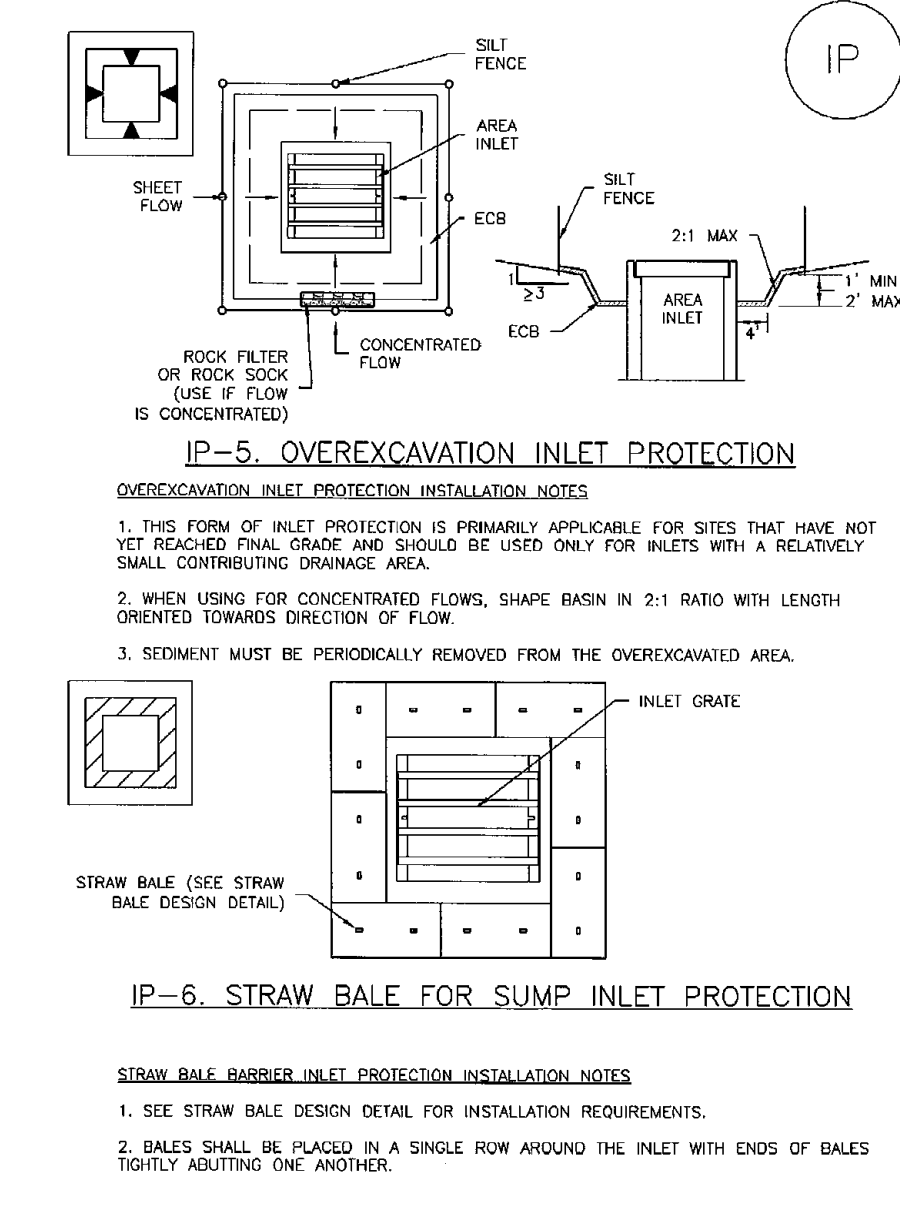
Inlet Protection (IP)



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

SC-6

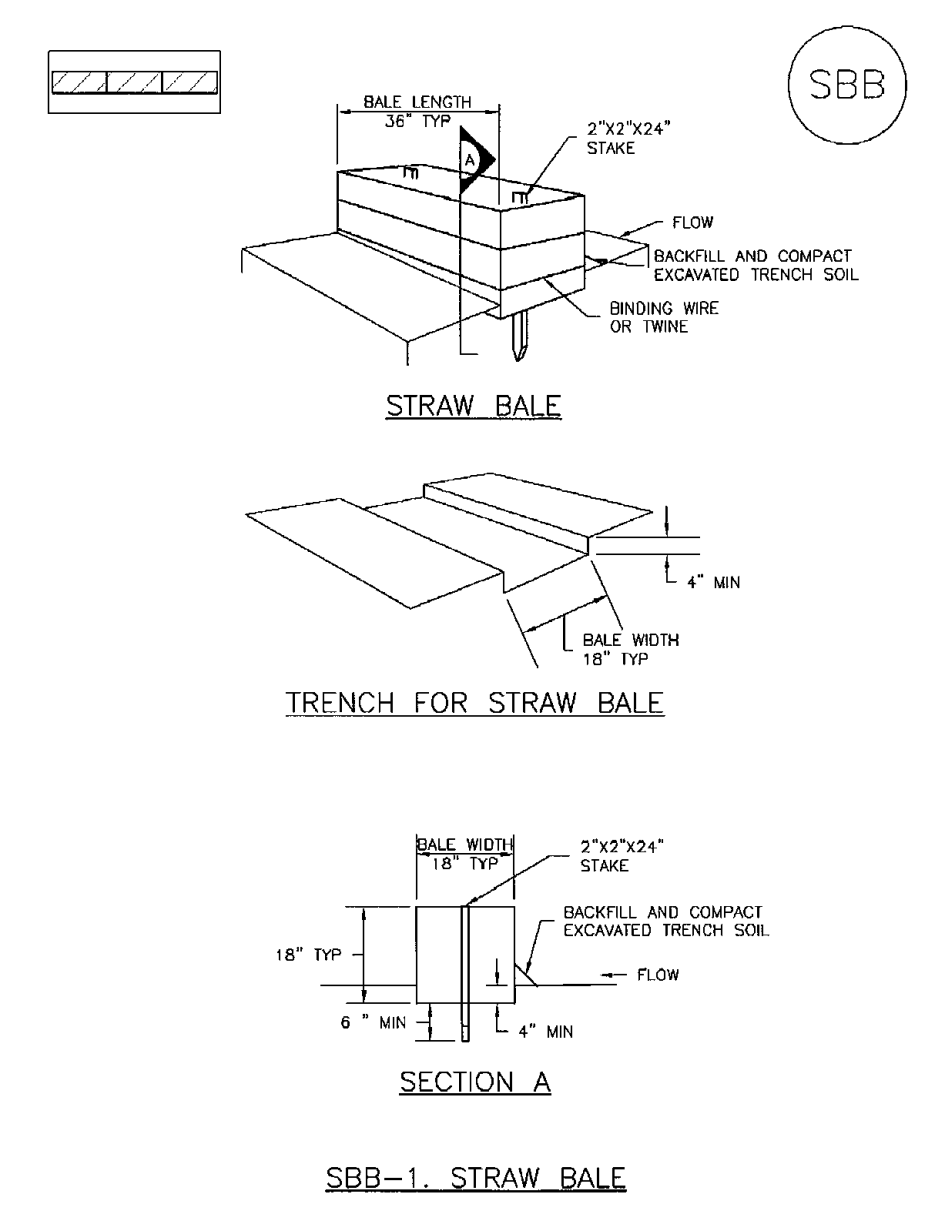
Inlet Protection (IP)



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

SC-3

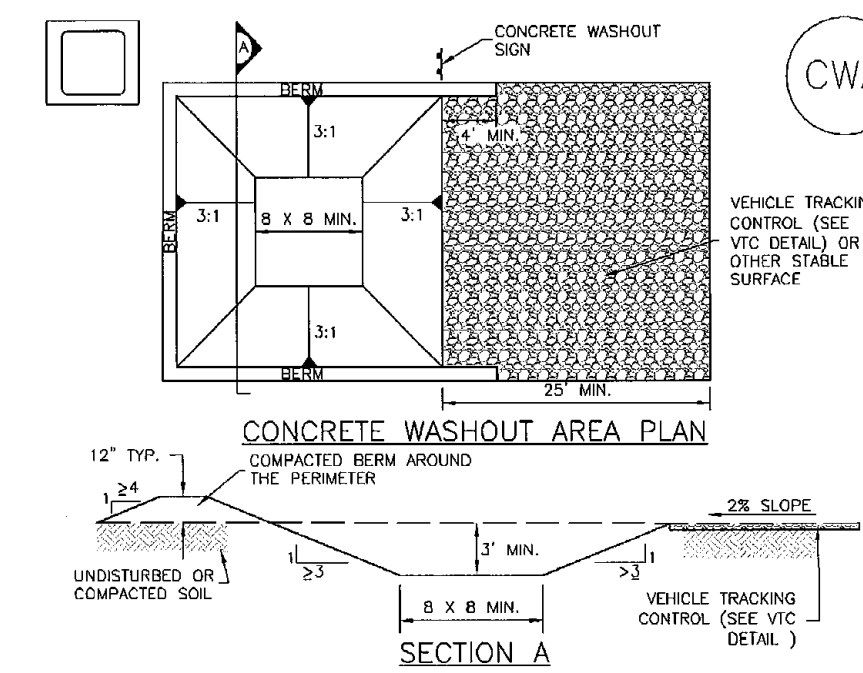
Straw Bale Barrier (SBB)



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

Concrete Washout Area (CWA)

MM-1



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

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 AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USDCD 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

48 HOURS BEFORE YOU DIG,
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NO.	REVISION	DATE

REVIEW:

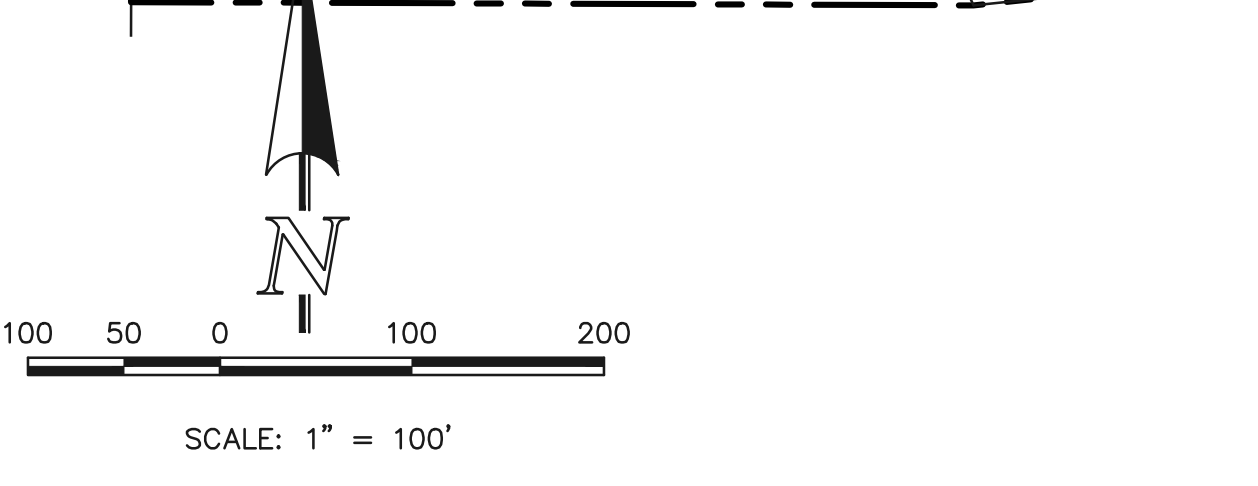
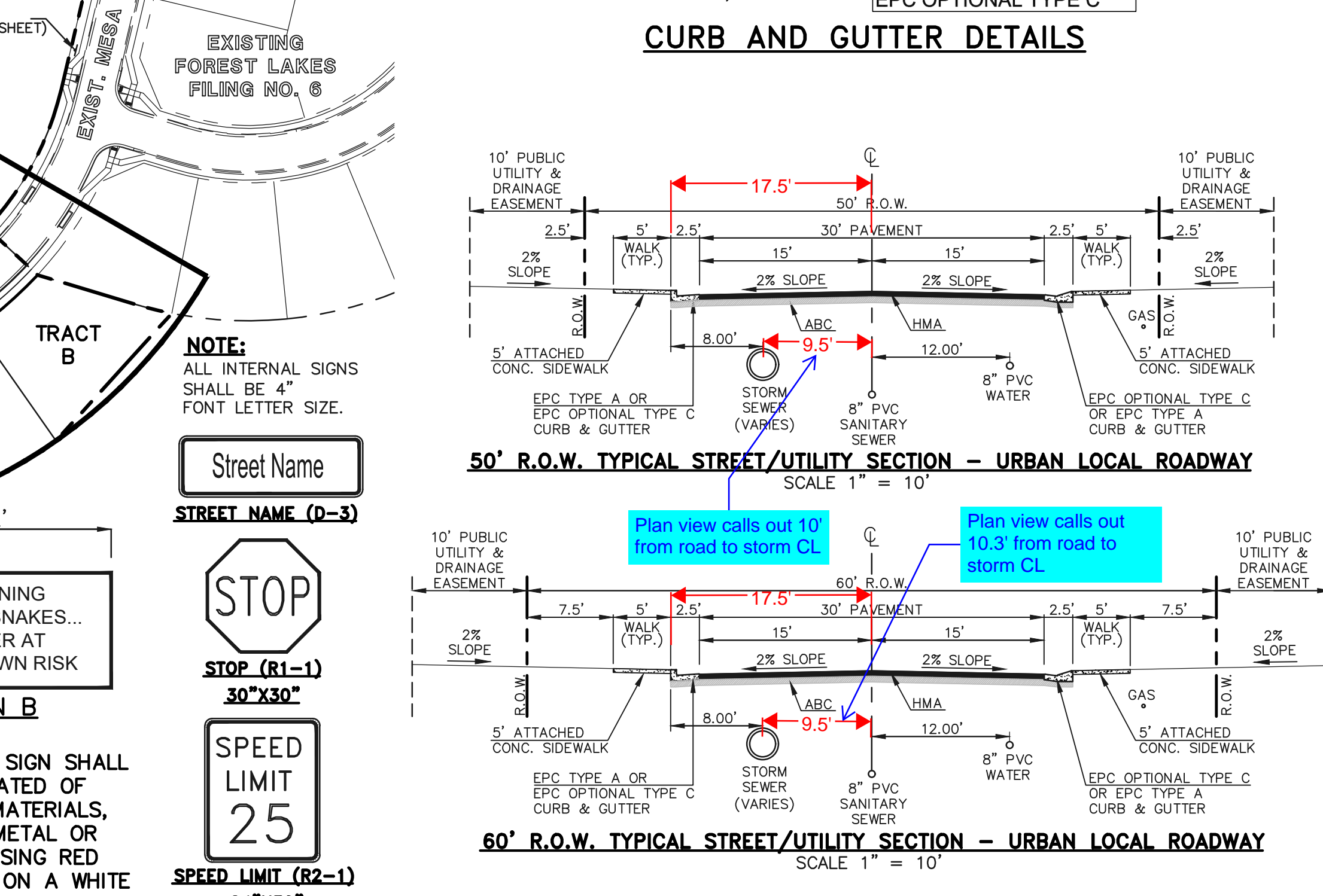
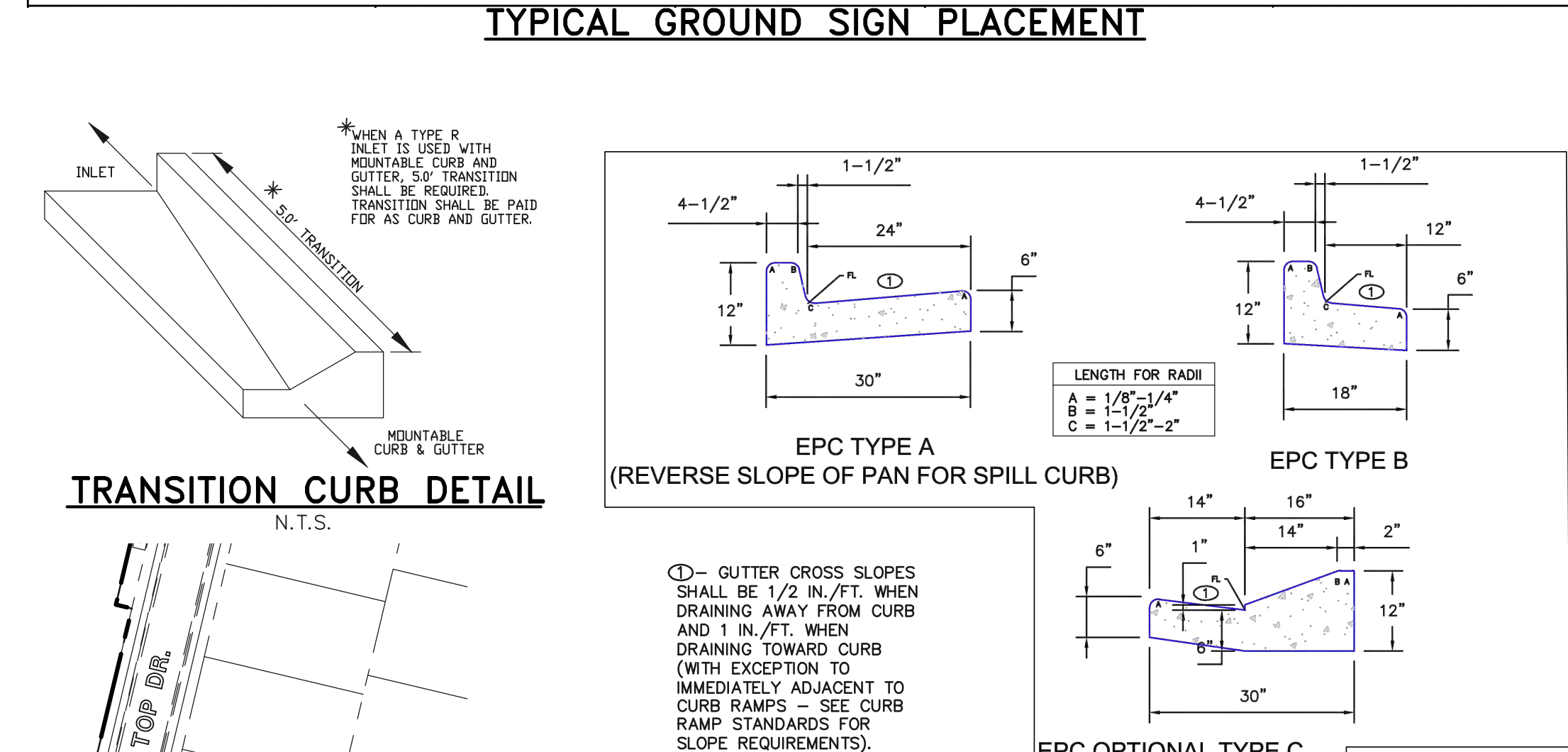
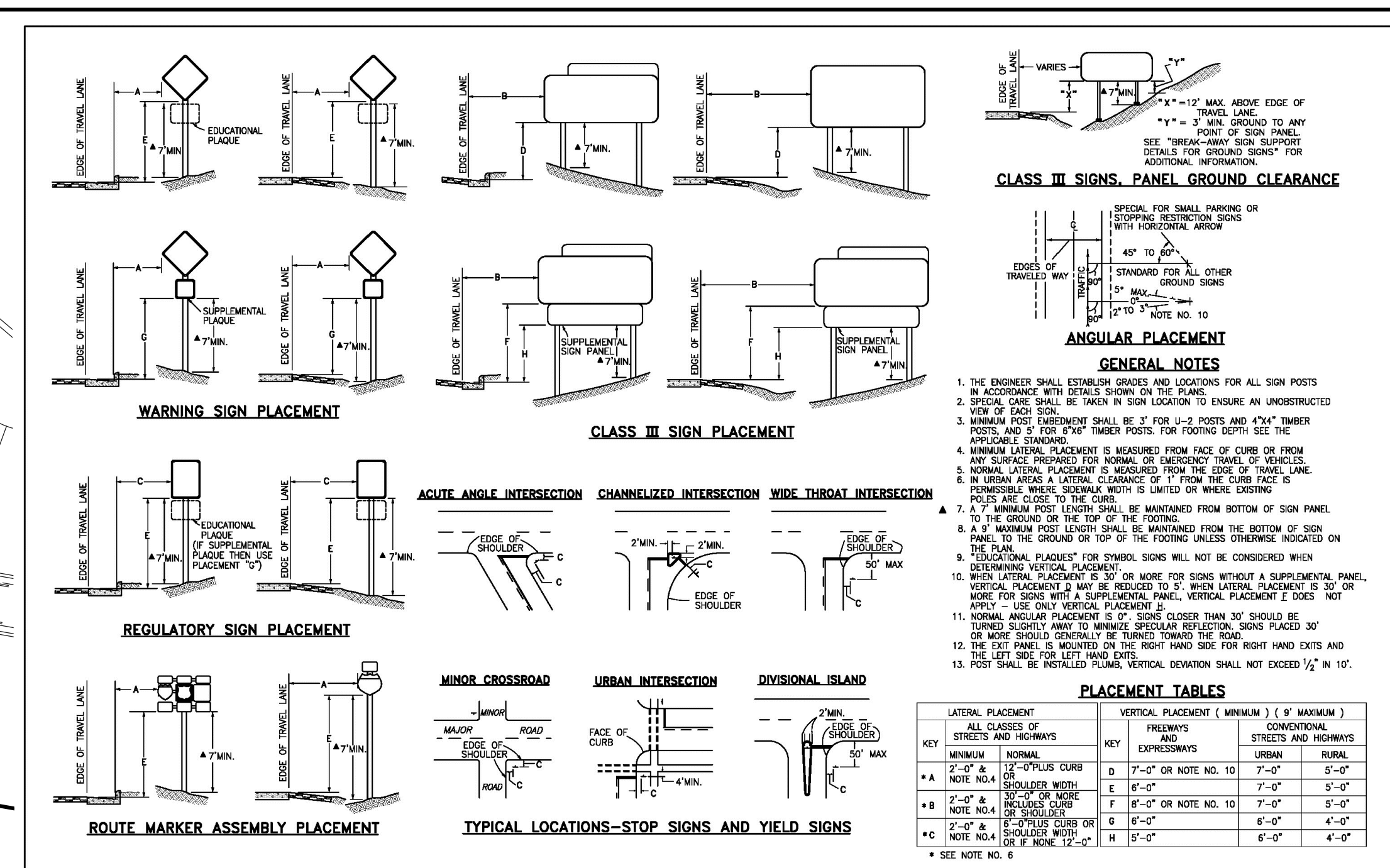
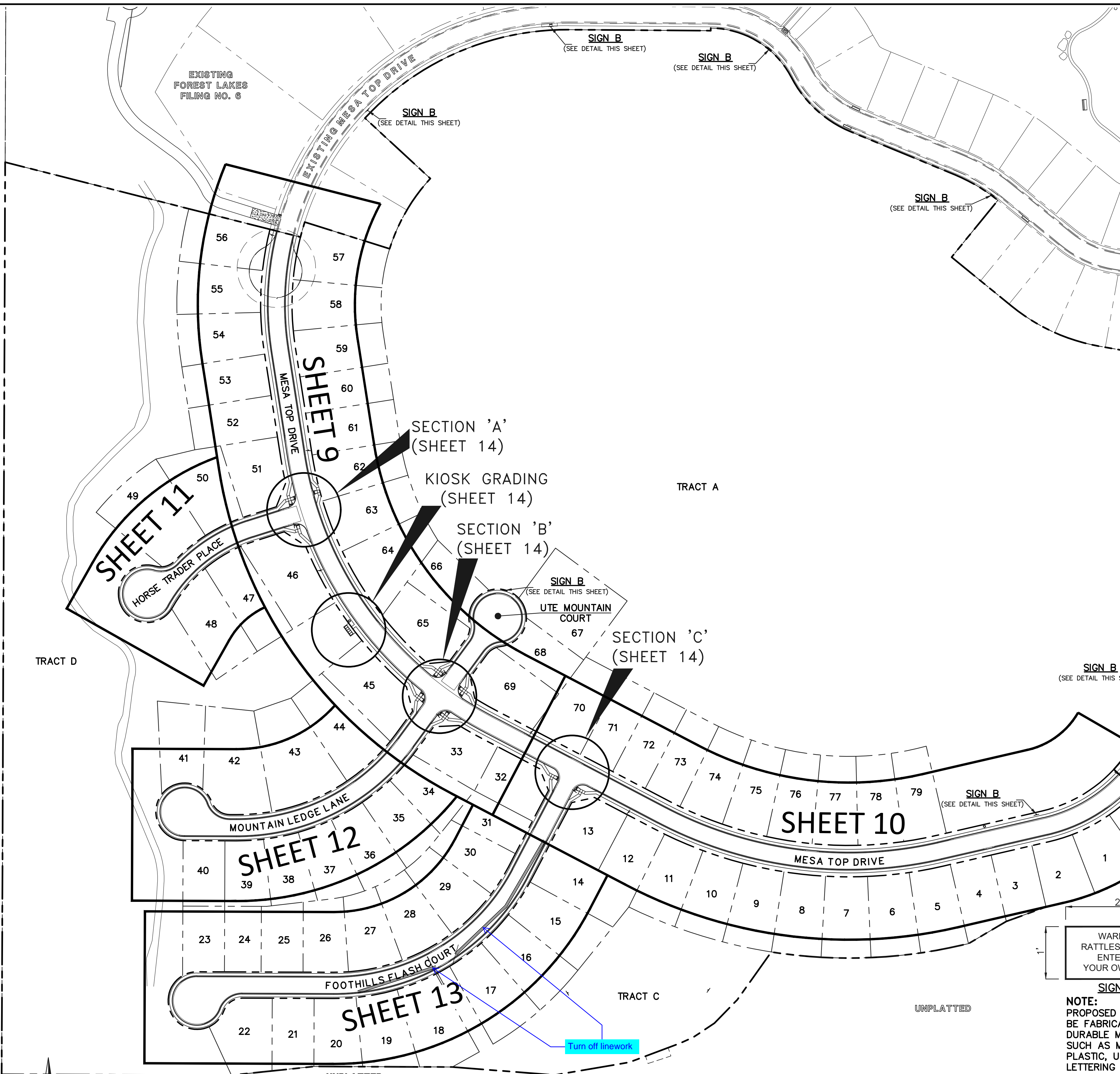
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

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



FOREST LAKES FILING NO. 7
CONSTRUCTION PLANS
GRADING AND EROSION CONTROL PLAN
EROSION CONTROL DETAILS

DESIGNED BY	MAL	SCALE	DATE	05/21/21
DRAWN BY	MES	(H) 1"= N/A	SHEET	7 OF 31
CHECKED BY		(V) 1"= N/A	JOB NO.	1175.70



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

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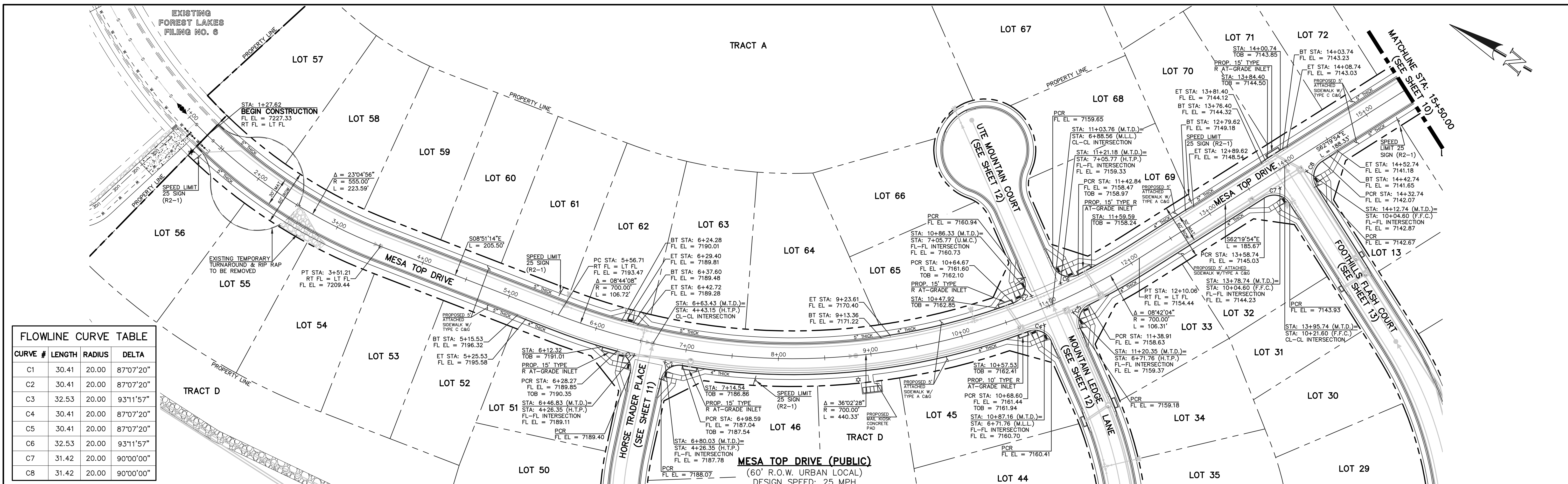
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE



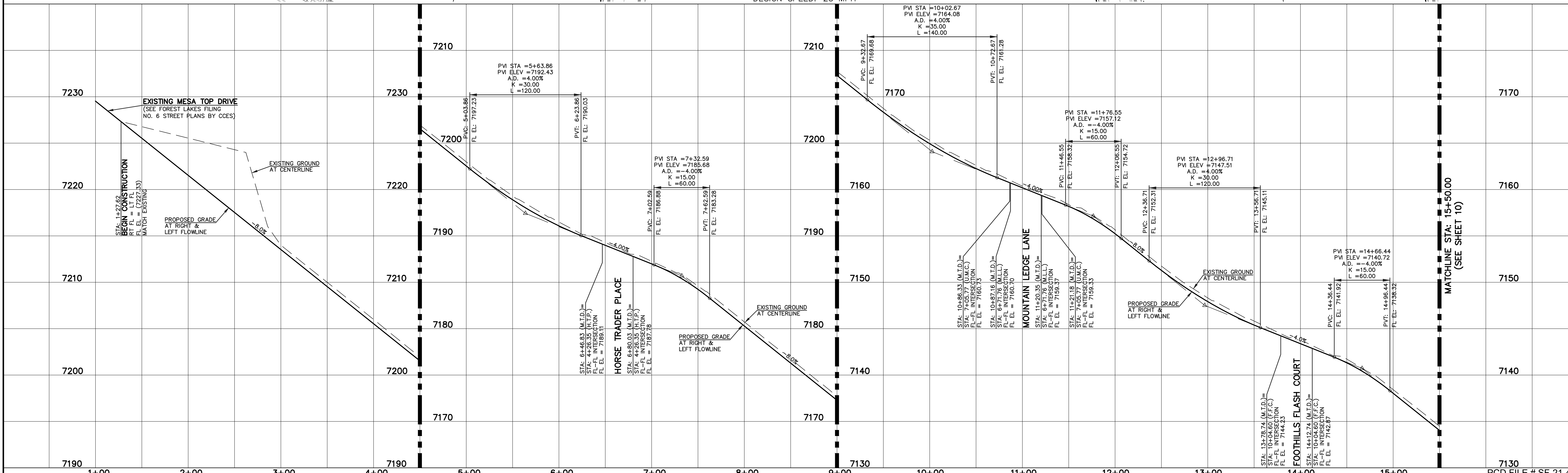
PCD FILE # SF-21-49

FOREST LAKES FILING NO. 7
PUBLIC STREET IMPROVEMENT PLAN
KEY MAP WITH TYPICAL STREET SECTIONS

DESIGNED BY	MAL	SCALE	DATE	05/21/21
DRAWN BY	MES	(H) 1" = 100'	SHEET	8 OF 31
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.70	



FLOWLINE CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	30.41	20.00	87°07'20"
C2	30.41	20.00	87°07'20"
C3	32.53	20.00	93°11'57"
C4	30.41	20.00	87°07'20"
C5	30.41	20.00	87°07'20"
C6	32.53	20.00	93°11'57"
C7	31.42	20.00	90°00'00"
C8	31.42	20.00	90°00'00"



LEGEND

- BOUNDARY LINE
- ROW LINE
- LOT LINE
- CURB & GUTTER
- PED RAMP
- LIGHT POLE
- SIGN
- TYPE R INLET

STREET ABBREVIATION INDEX

- M.T.D. MESA TOP DRIVE
- H.T.P. HORSE TRADER PLACE
- M.L.L. MOUNTAIN LEDGE LANE
- U.M.C. UTE MOUNTAIN COURT
- F.F.C. FOOTHILLS FLASH COURT

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 6. WALK NOT INSTALLED AT 6" THICKNESS WILL BE RE-CONSTRUCTED WITH DRIVEWAY PERMIT AND INSTALLATION AS REQUIRED.

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DATE

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

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

DATE

DESIGNED BY MAL SCALE DATE 05/21/21

DRAWN BY MES (H) 1" = 50' SHEET 9 OF 31

CHECKED BY (V) 1" = 5' JOB NO. 1175.70

CLASSIC CONSULTING

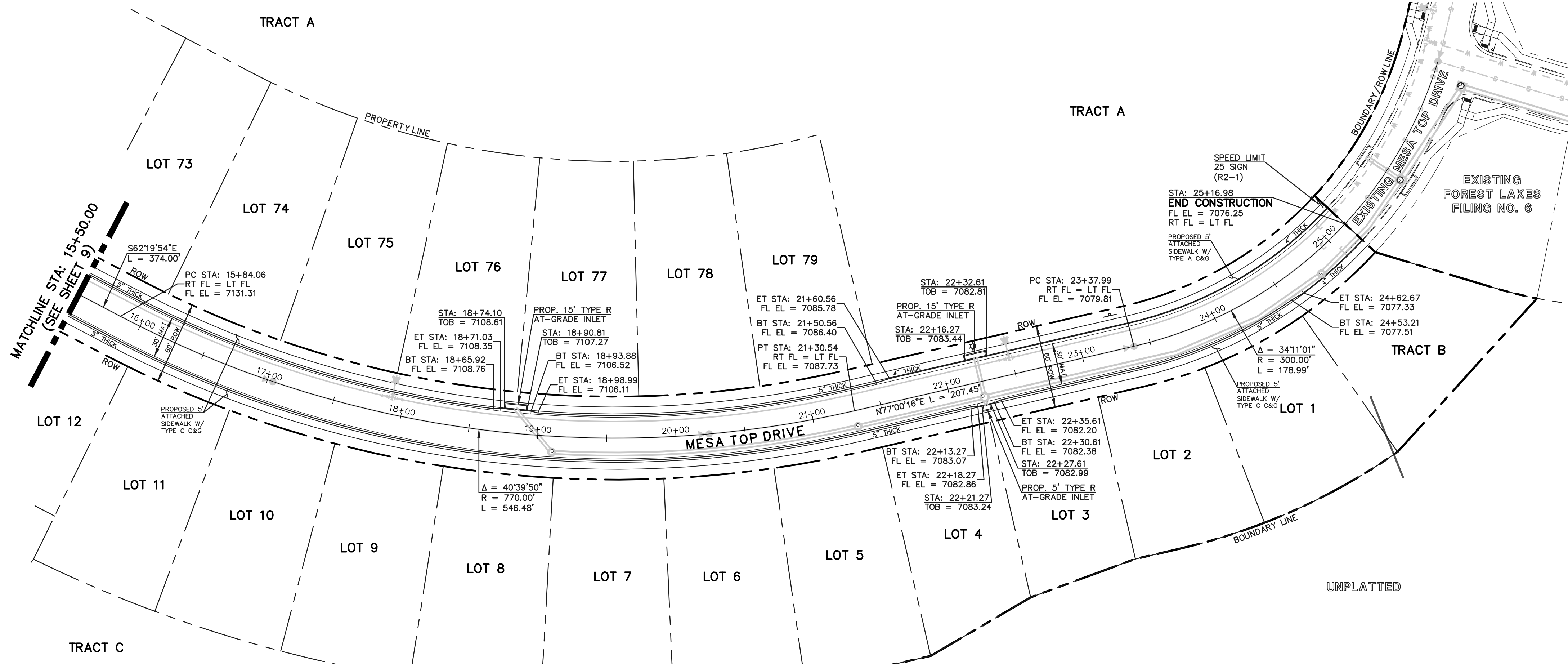
FOREST LAKES FILING NO. 7
PUBLIC STREET IMPROVEMENT PLAN
MESA TOP DRIVE
STA: 1+00.00 - 15+50.00

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

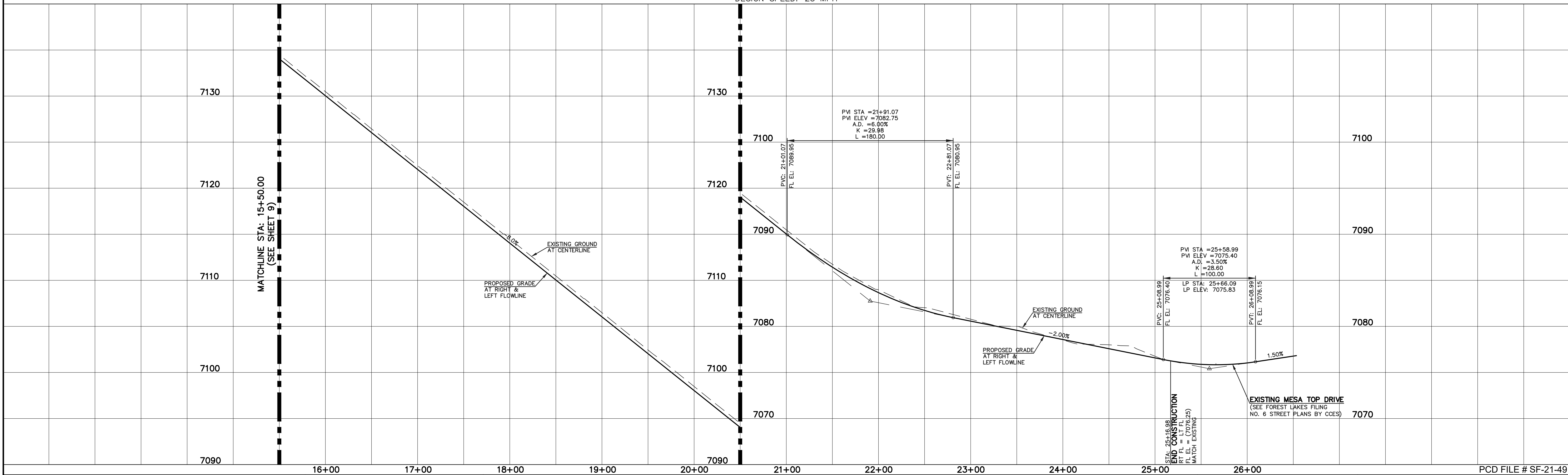
PCD FILE # SF-21-49

1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00 14+00 15+00

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



LEGEND

- BOUNDARY LINE
- ROW LINE
- LOT LINE
- CURB & GUTTER
- PED RAMP
- LIGHT POLE
- SIGN
- TYPE R INLET

STREET ABBREVIATION INDEX

- M.T.D. MESA TOP DRIVE
- H.T.P. HORSE TRADER PLACE
- M.L.L. MOUNTAIN LEDGE LANE
- U.M.C. UTE MOUNTAIN COURT
- F.F.C. FOOTHILLS FLASH COURT

50 25 0 50 100
SCALE: 1" = 50' HORIZ./5' VERT.

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 6. WALK NOT INSTALLED AT 6" THICKNESS WILL BE RE-CONSTRUCTED WITH DRIVEWAY PERMIT AND INSTALLATION AS REQUIRED.

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



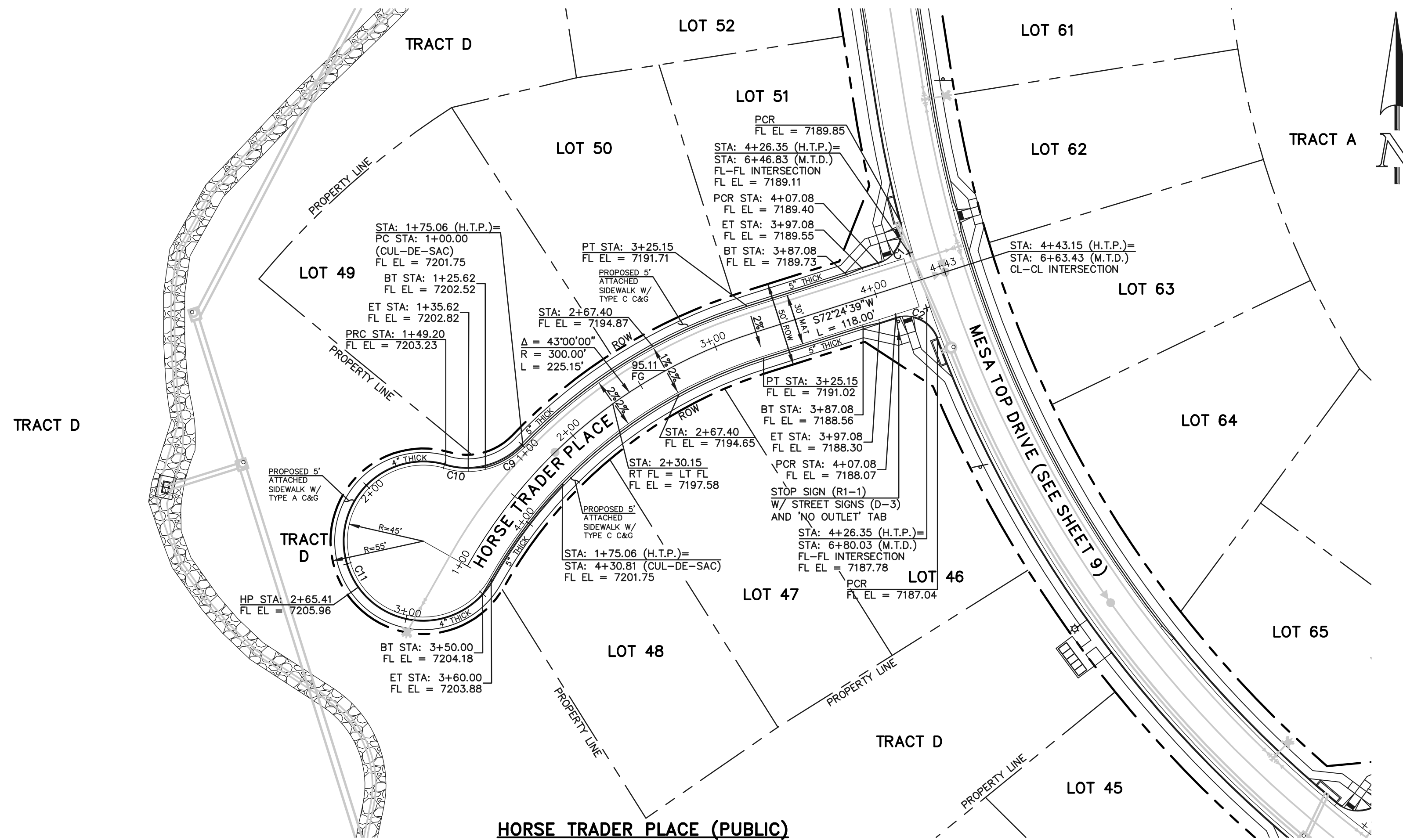
FOREST LAKES FILING NO. 7
PUBLIC STREET IMPROVEMENT PLAN
MESA TOP DRIVE
STA: 15+50.00 - END

DESIGNED BY	MAL	SCALE	DATE	05/21/21
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CHECKED BY	(V)	1" = 5'	JOB NO.	1175.70

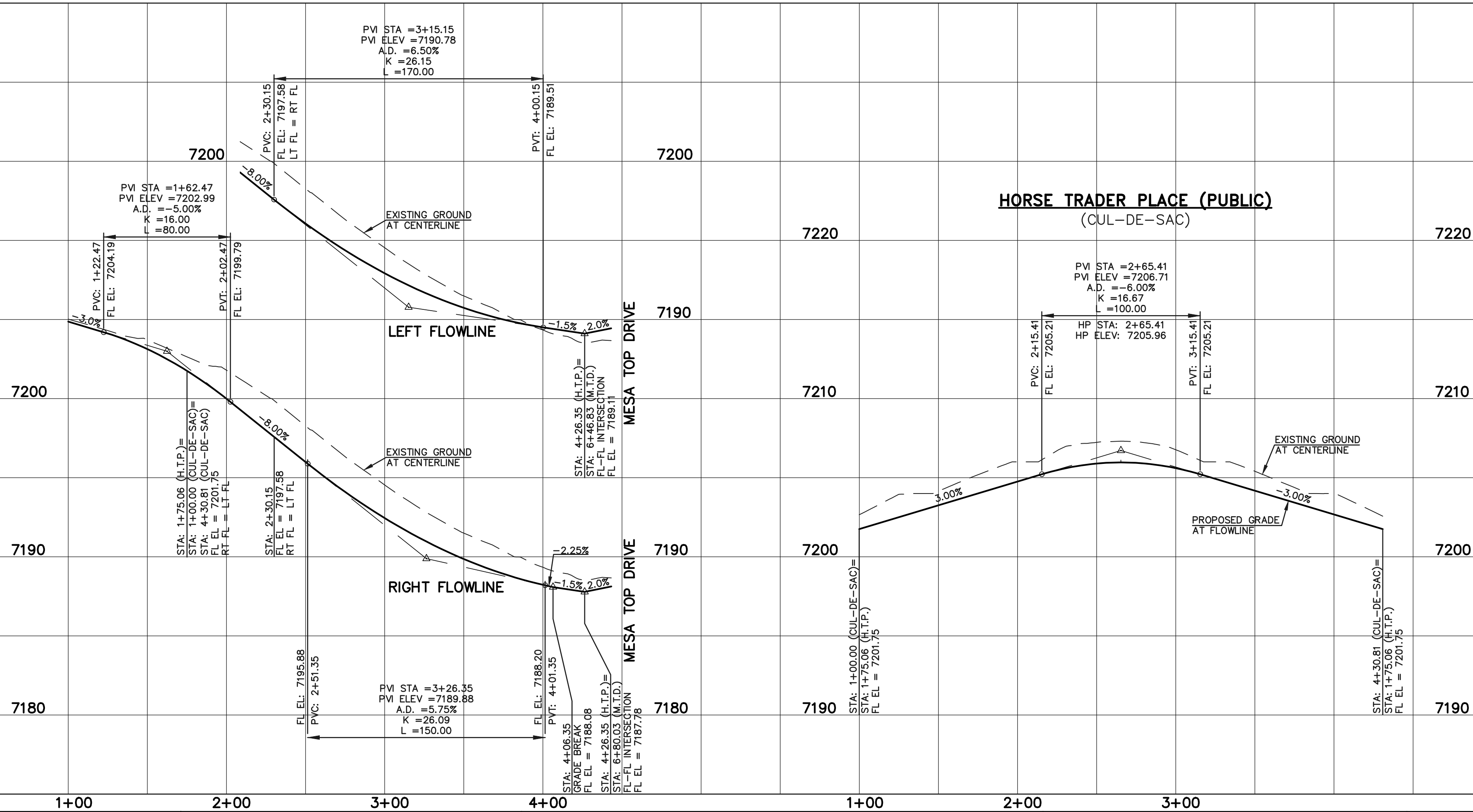
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UNPLATTED FOREST SERVICE DEPT. OF AGRICULTURE UNITED STATES OF AMERICA

FLOWLINE CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C1	30.41	20.00	87°07'20"
C2	30.41	20.00	87°07'20"
C9	26.09	45.83	32°37'16"
C10	13.58	45.00	17°17'24"
C11	200.80	47.00	244°47'21"



HORSE TRADER PLACE (PUBLIC)
 (50' R.O.W. URBAN LOCAL)
 DESIGN SPEED: 25 MPH



PCD FILE # SF-21-49

LEGEND

BOUNDARY LINE	---
ROW LINE	---
LOT LINE	---
CURB & GUTTER	---
PED RAMP	▭
LIGHT POLE	☆
SIGN	▲
TYPE R INLET	▭

STREET ABBREVIATION INDEX

M.T.D.	MESA TOP DRIVE
H.T.P.	HORSE TRADER PLACE
M.L.L.	MOUNTAIN LEDGE LANE
U.M.C.	UTE MOUNTAIN COURT
F.F.C.	FOOTHILLS FLASH COURT

50 25 0 50 100
 SCALE: 1" = 50' HORIZ./5' VERT.

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



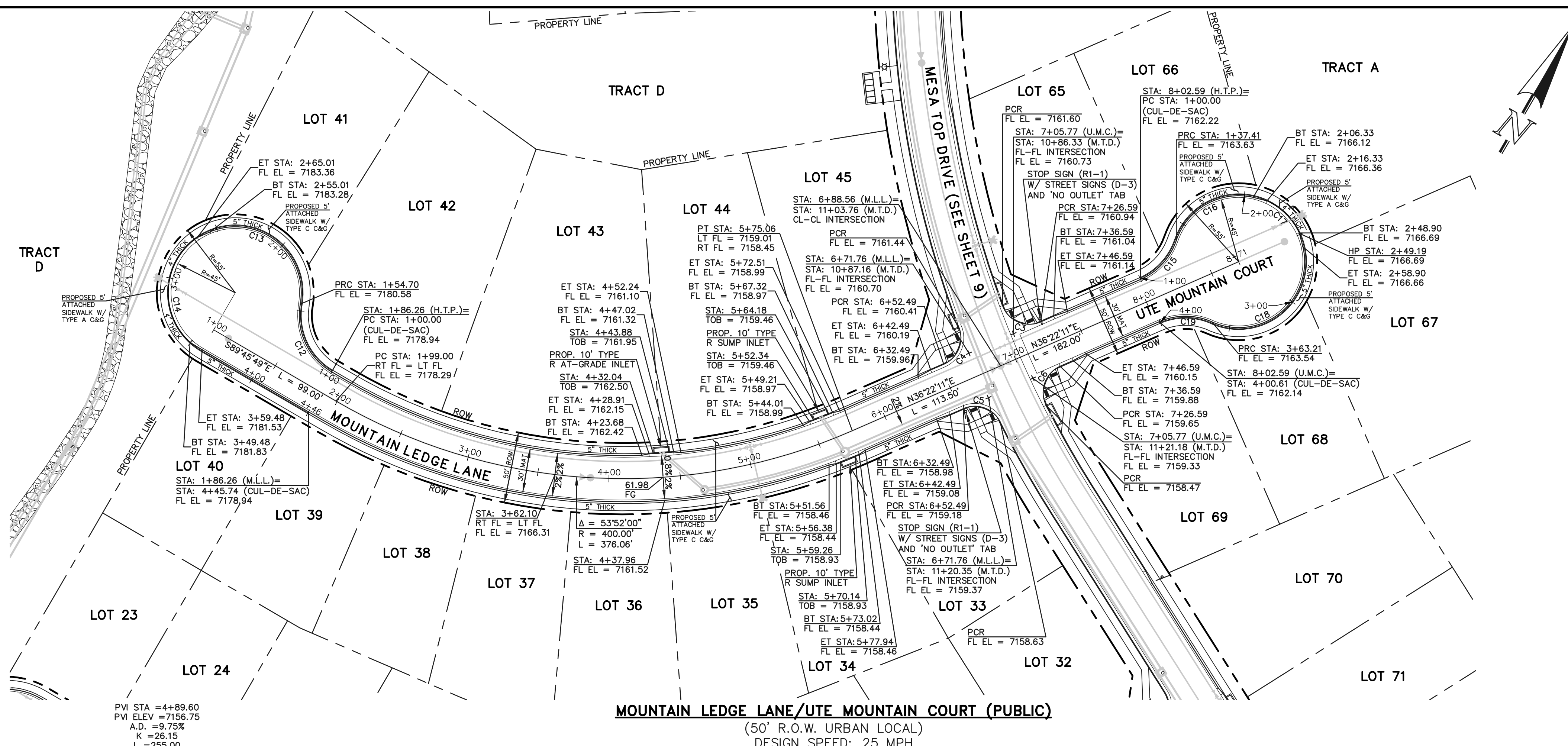
FOREST LAKES FILING NO. 7
 PUBLIC STREET IMPROVEMENT PLAN
 HORSE TRADER PLACE

DESIGNED BY	MAL	SCALE	DATE	05/21/21
DRAWN BY	MES	(H) 1" = 50'	SHEET	11 OF 31
CHECKED BY	(V) 1" = 5'	JOB NO.	1175.70	

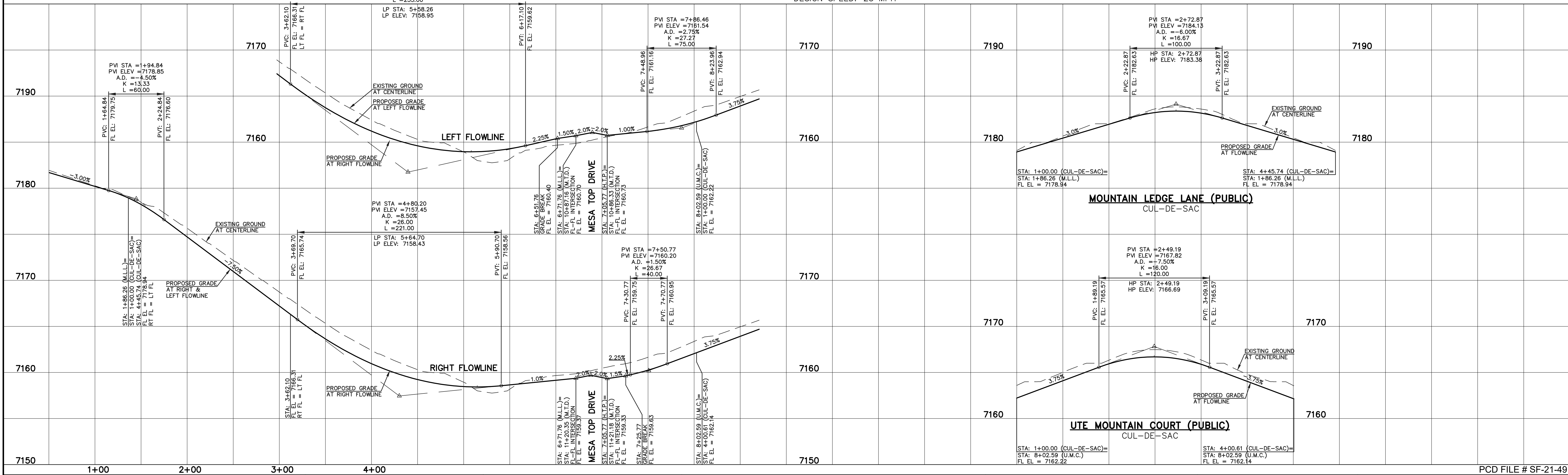


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FLOWLINE CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C3	32.53	20.00	93°11'57"
C4	30.41	20.00	87°07'20"
C5	30.41	20.00	87°07'20"
C6	32.53	20.00	93°11'57"
C12	55.71	45.83	69°38'44"
C13	98.54	46.17	122°17'23"
C14	84.47	47.00	102°58'29"
C15	38.10	45.83	47°37'49"
C16	67.71	46.17	84°01'20"
C17	32.57	47.00	39°42'09"
C18	102.46	46.17	127°09'16"
C19	38.10	45.83	47°37'49"



MOUNTAIN LEDGE LANE/UTE MOUNTAIN COURT (PUBLIC)
 (50' R.O.W. URBAN LOCAL)
 DESIGN SPEED: 25 MPH



LEGEND

- BOUNDARY LINE
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- PED RAMP
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KYLE R. CAMPBELL, COLORADO P.E. #29794 _____ DATE _____

CLASSIC CONSULTING

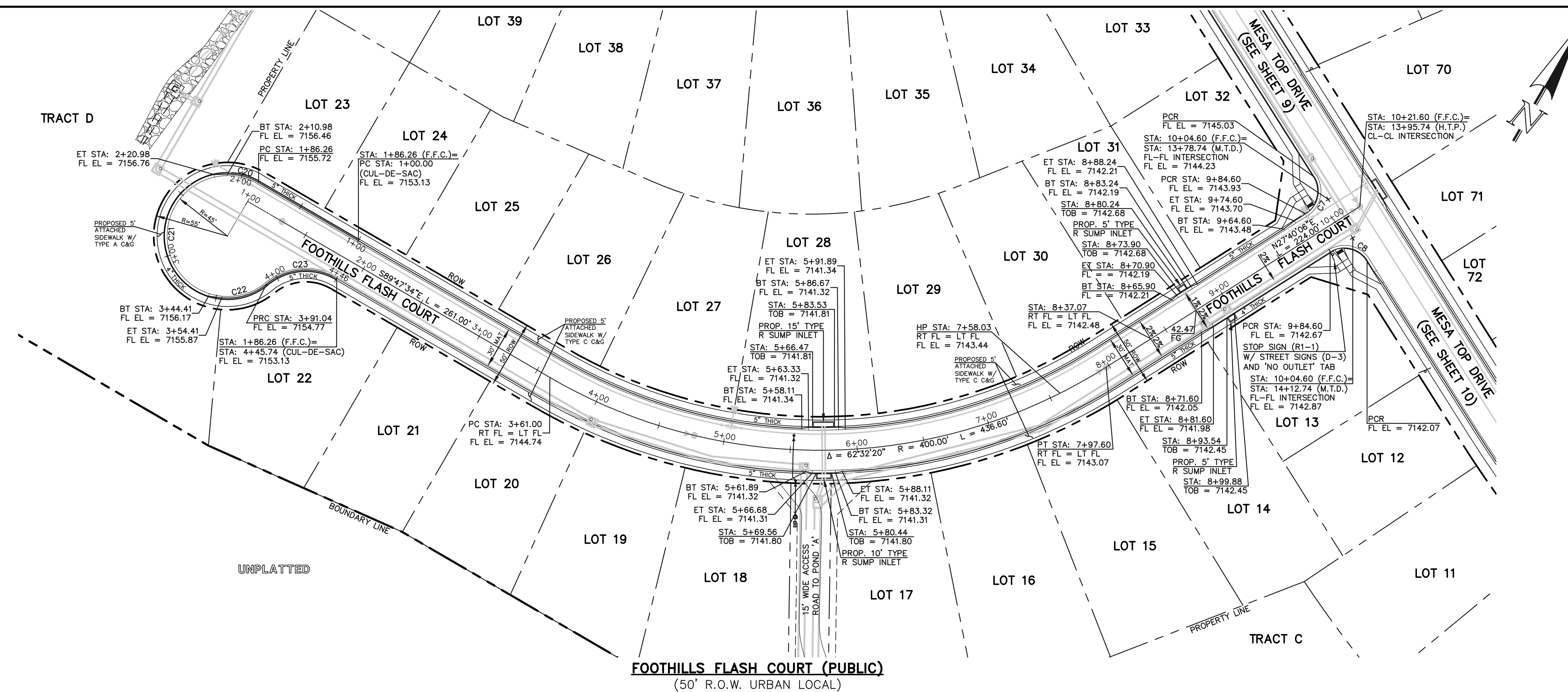
DESIGNED BY MAL SCALE DATE 05/21/21
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PCD FILE # SF-21-49

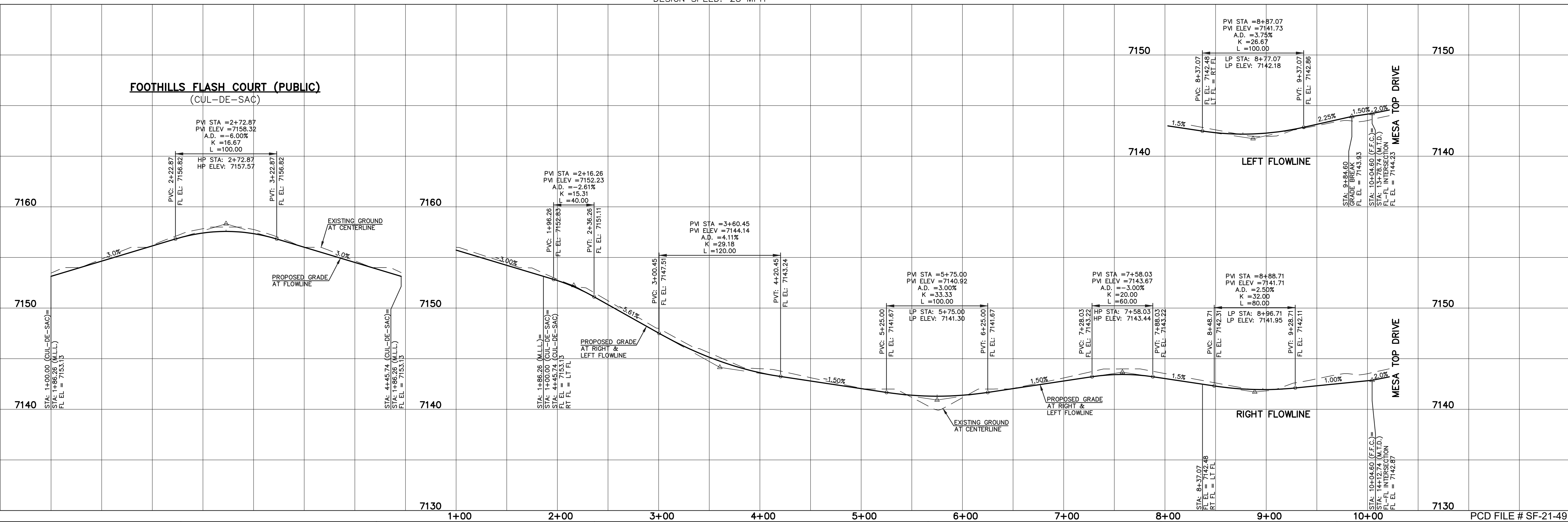
FOREST LAKES FILING NO. 7
 PUBLIC STREET IMPROVEMENT PLAN
 MOUNTAIN LEDGE LANE/UTE MOUNTAIN COURT

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

FLOWLINE CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C7	31.42	20.00	90°00'00"
C8	31.42	20.00	90°00'00"
C20	24.29	46.17	30°08'46"
C21	123.42	47.00	150°27'40"
C22	35.99	46.17	44°39'26"
C23	55.71	45.83	69°38'44"



FOOTHILLS FLASH COURT (PUBLIC)
(CUL-DE-SAC)



LEGEND

- BOUNDARY LINE
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- PED RAMP
- LIGHT POLE
- SIGN
- TYPE R INLET

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SCALE: 1" = 50' HORIZ./5' VERT.

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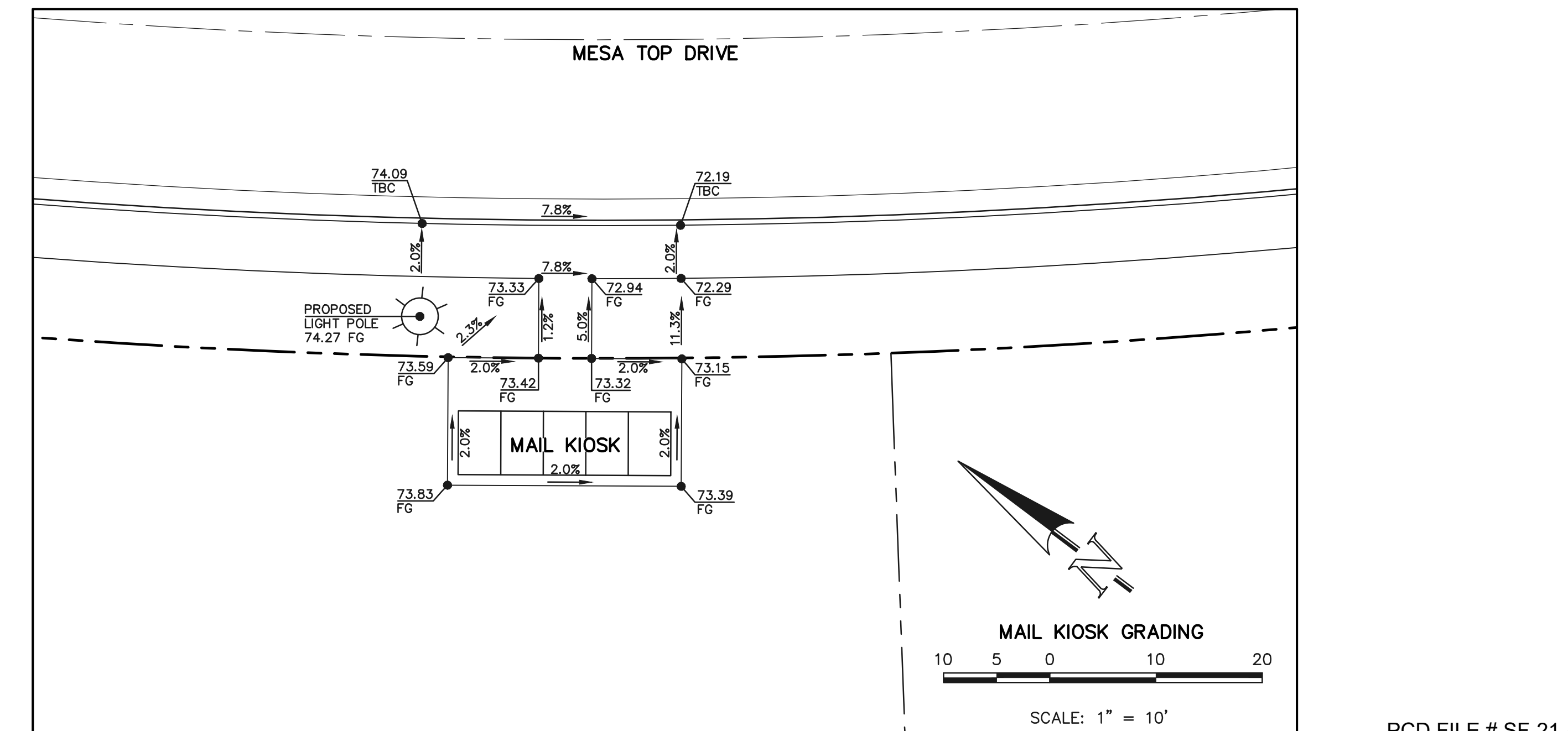
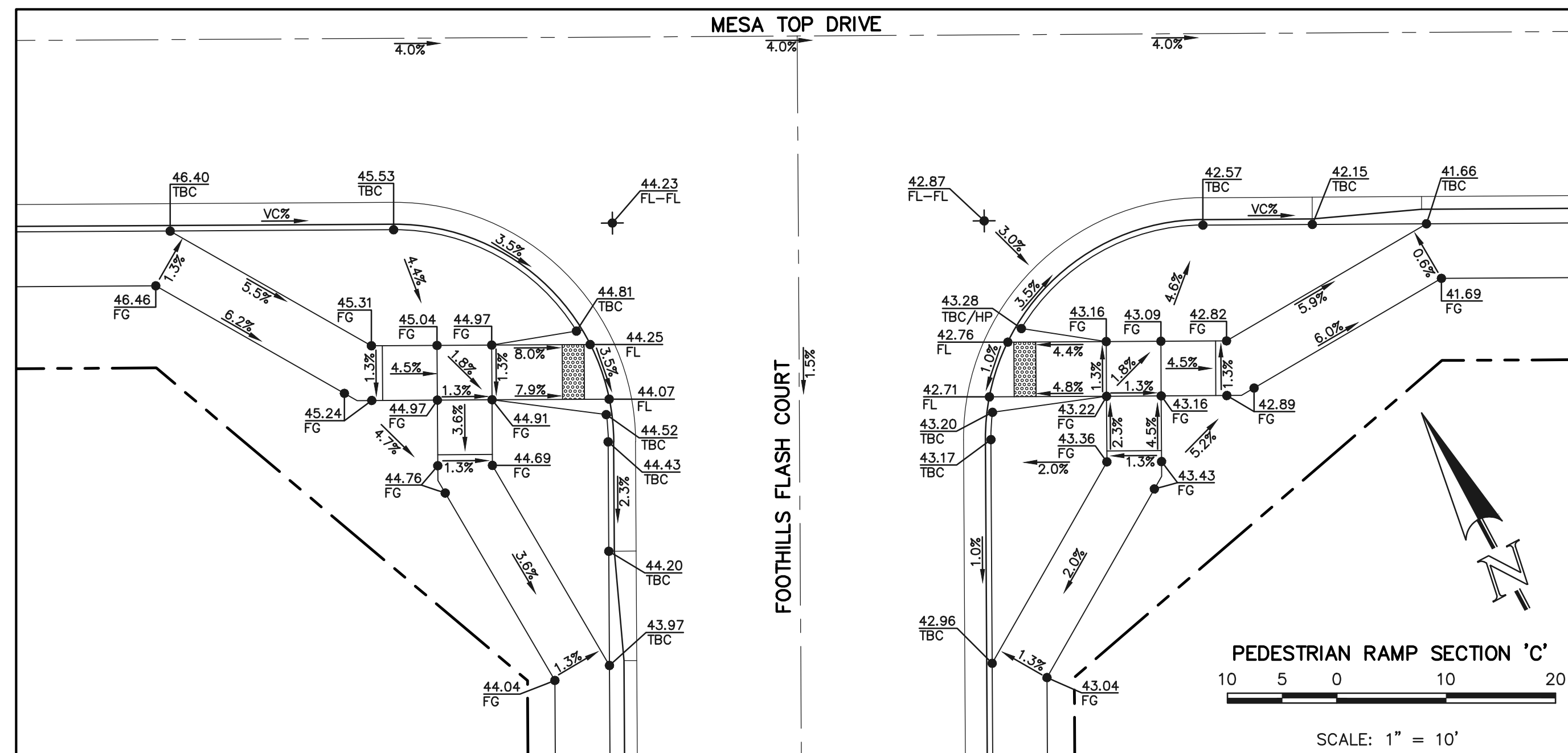
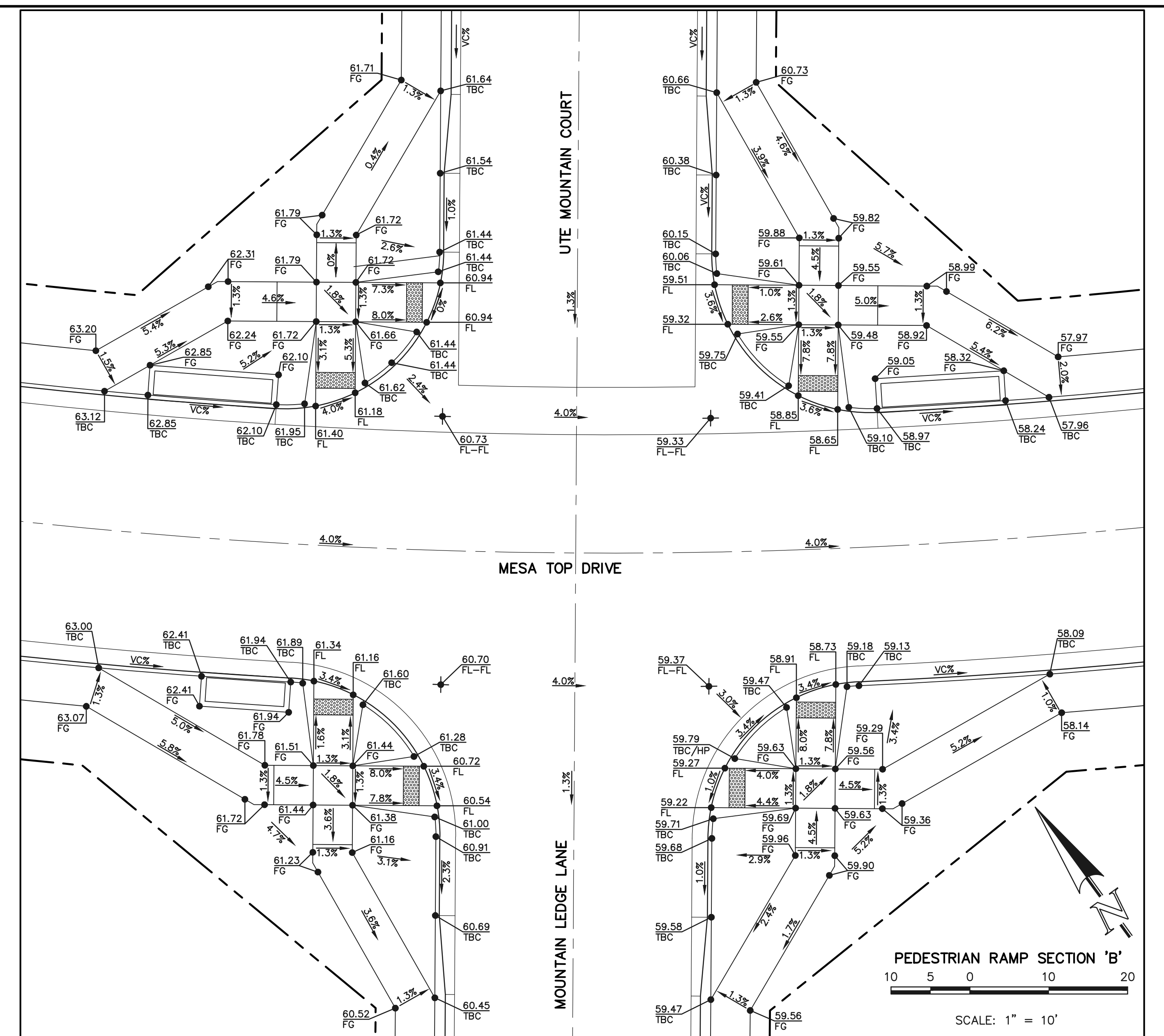
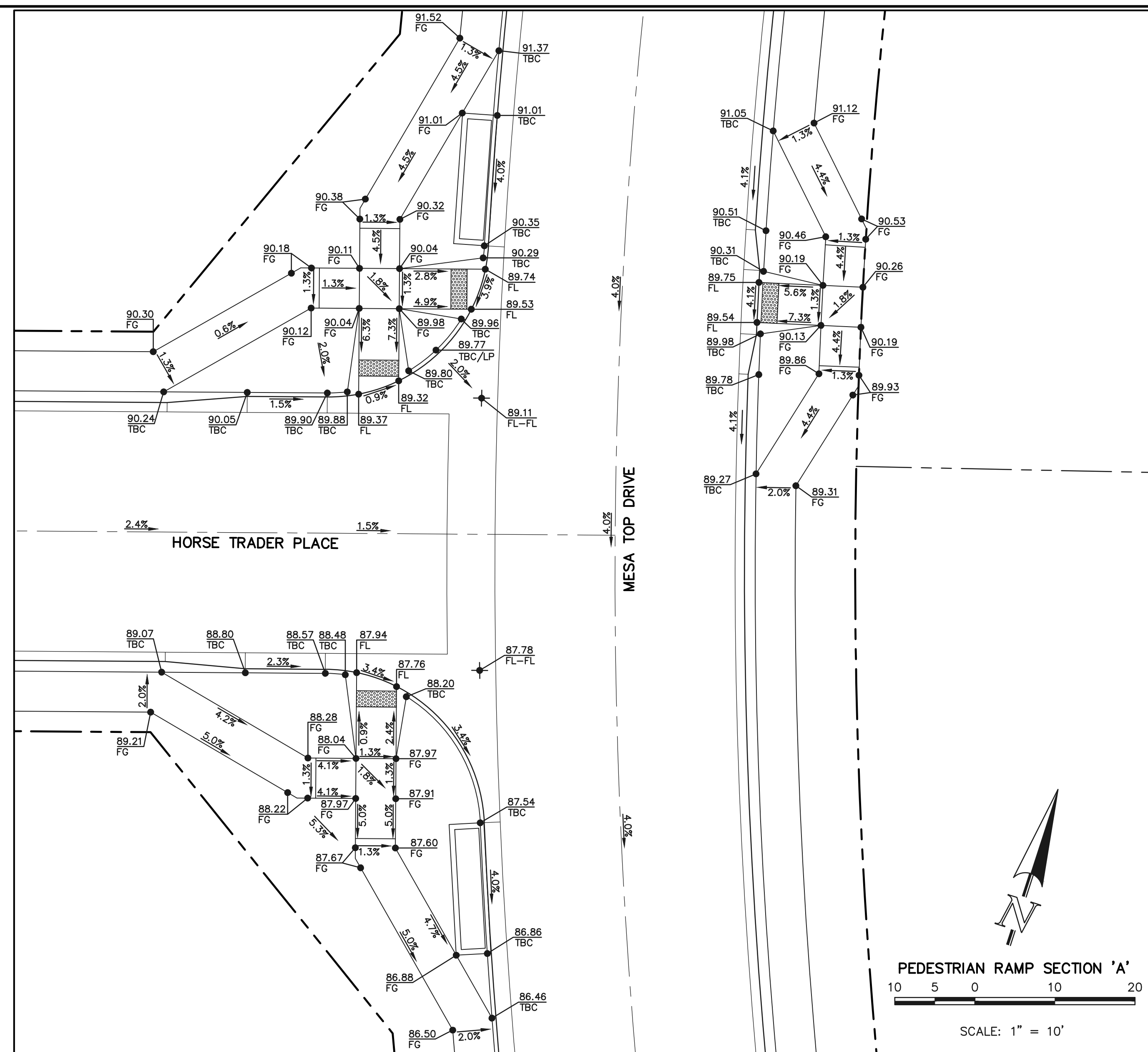
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

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



FOREST LAKES FILING NO. 7
PUBLIC STREET IMPROVEMENT PLAN
FOOTHILLS FLASH COURT

DESIGNED BY MAL SCALE DATE 05/21/21
DRAWN BY MES (H) 1" = 50' SHEET 13 OF 31
CHECKED BY (V) 1" = 5' JOB NO. 1175.70



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FOREST LAKES FILING NO. 7
PUBLIC STREET IMPROVEMENT PLAN
PEDESTRIAN RAMP DESIGN

DESIGNED BY	MES	SCALE	DATE	05/21/21
DRAWN BY	MES	(H) 1" = 10'	SHEET	14 OF 31
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.70	

PCD FILE # SF-21-49

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American Revolution LED Series 247L

PRODUCT OVERVIEW



Features:

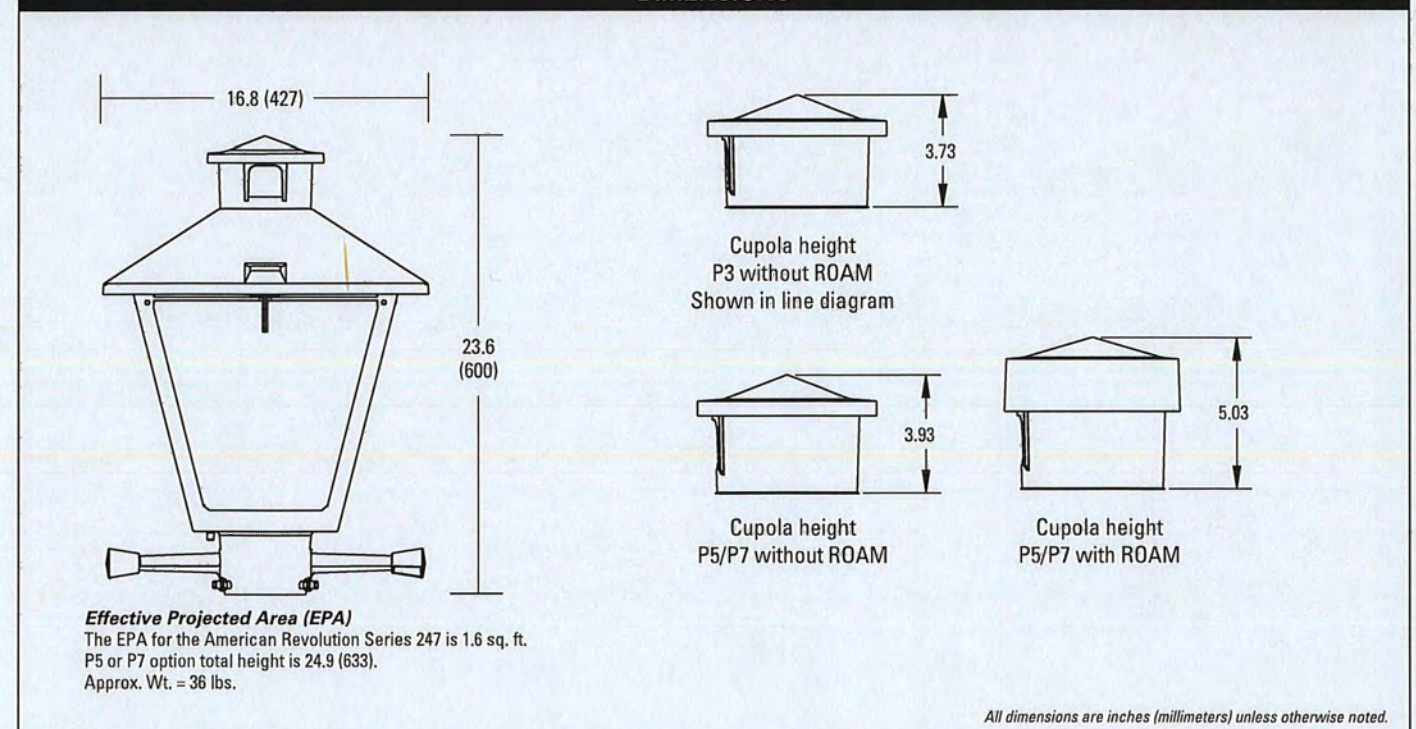
- Die-cast aluminum housing and hood for long-life performance
- Die-cast trigger latch (TL) and captive thumb screws option available for easy access to internal components
- Optical assembly designed for maximum performance, available in Type II, Type III and Type V
- Hinged hood and captive thumb screws provision afford quick, easy access to electrical and optical area for servicing
- Slipfitter with three set screws allows secure installation to pole sizes 2-3/8" or 3" O.D.
- Surge protection device (standard) exceeds ANSI C62.41 Category C1 criteria (surge tested at 10kV/5kA)
- Complies with ANSI: C136.2, C136.10, C136.15
- CSA listed and suitable for up to 30°C ambient
- Rated L70, LED life greater than 100,000 hours at 25°C
- Replaces up to 150W HPS light source incumbent models
- LED electronic 0V-10V dimmable driver
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/DPL to confirm which versions are qualified.

Applications:

- Streetscapes
- Walkways
- Pathways
- Parks

MVEA SPEC # 247L 10LEDE10 MVOLT 4K RS AY PCLL

DIMENSIONS



Note: Specifications subject to change without notice. American Revolution Series 247L LED



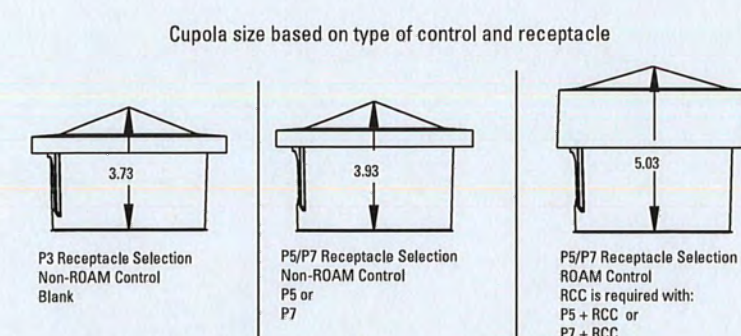
American Revolution LED Series 247L

ORDERING INFORMATION

Example: 247L 20LEDE70 MVOLT 4K R3 AY

Series	Performance Package	Voltage	Color Temperature (CCT)
247L American Revolution LED	20LEDE10 20 Chips, 1050 mA Driver, 72 input watts 20LEDE70 20 Chips, 700 mA Driver, 45 input watts 10LEDE10 10 Chips, 1050 mA Driver, 28 input watts 10LEDE70 10 Chips, 700 mA Driver, 25 input watts 10LEDE35 10 Chips, 525 mA Driver, 18 input watts 10LEDE35 10 Chips, 350 mA Driver, 13 input watts	MVOLT Multi-volt, 120-277V 347 347V 480 480V	3K 3000K 4K 4000K 5K 5000K

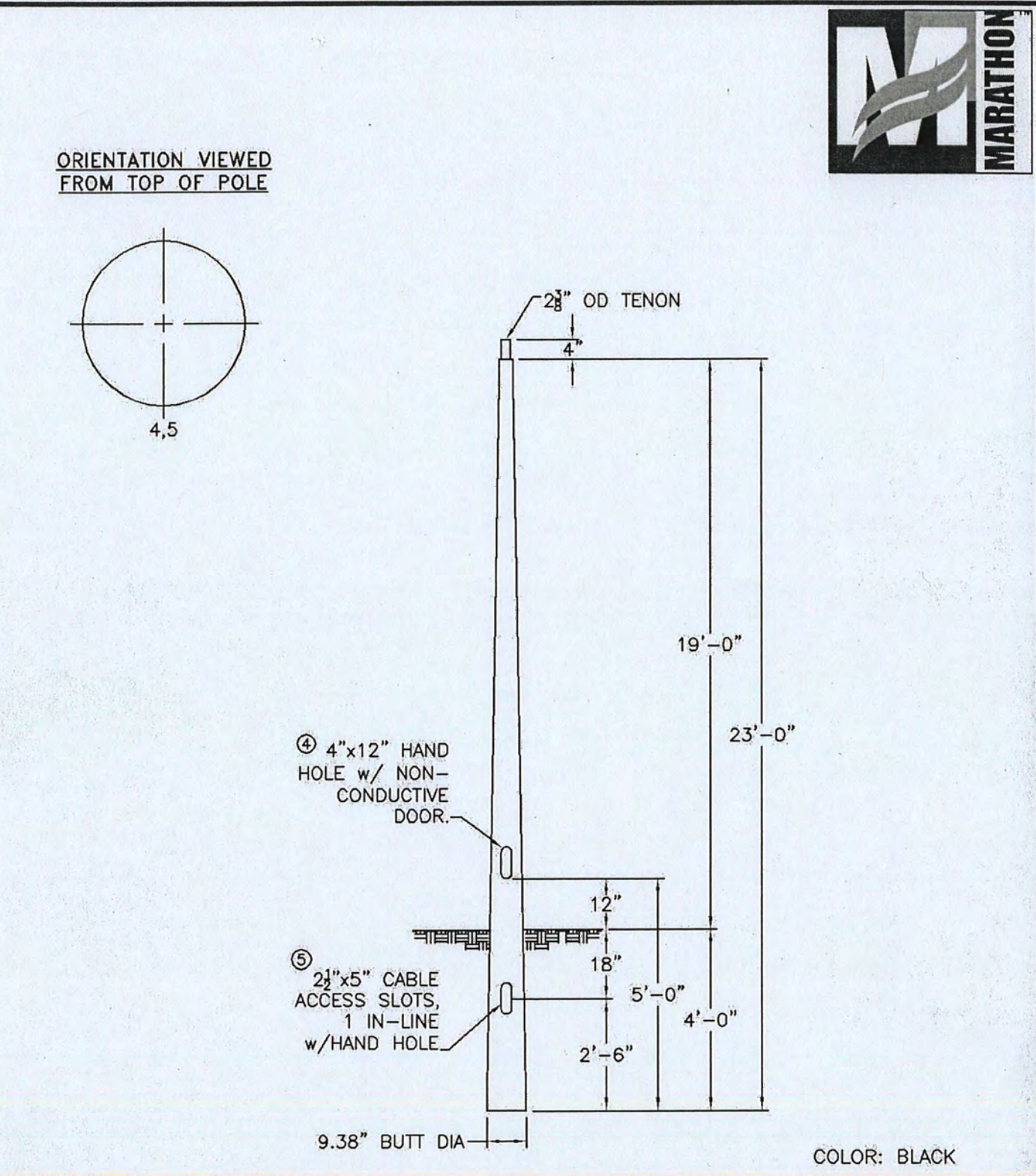
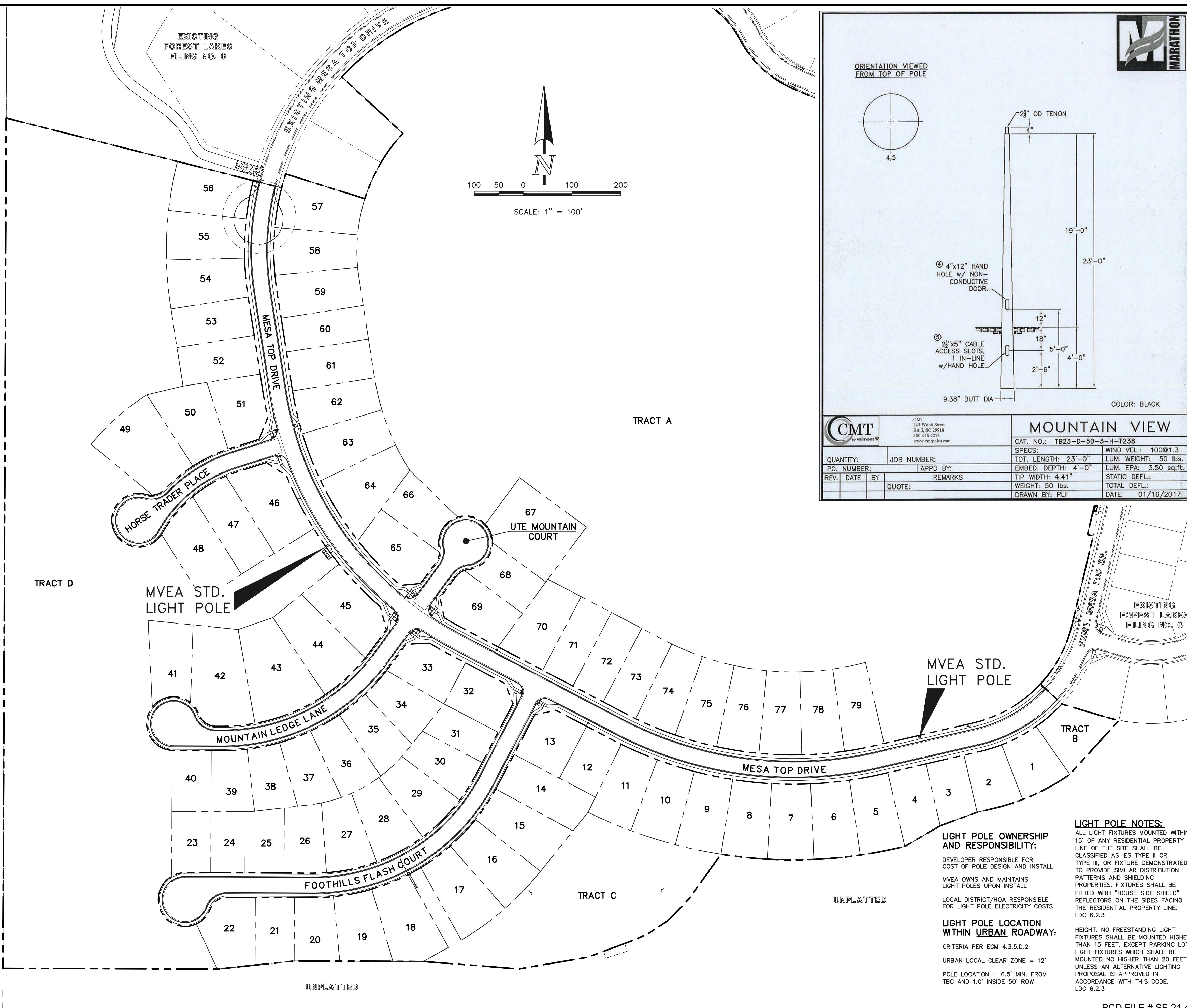
Distribution	Optics	Options
R2 Type II R3 Type III RS Type V	AY Acrylic PY Polycarbonate	Paint 1 Black (standard) CY Gray DOB Dark Bronze WH White BZ Bronze Photocontrol (blank) 3 pin NEMA Photocontrol Receptacle (standard) NR 2 No Photocontrol Receptacle PS 1 5 pin NEMA Photocontrol Receptacle (dimmable driver included) P7 1 7 pin NEMA Photocontrol Receptacle (dimmable driver included) PCLL 4 Solid State Long Life Photocontrol PCSS 4A Not CSA Listed Solid State Long Life Photocontrol (120-277V)



- Notes:
1. Other colors available, please contact factory
 2. PC and SH not available with NR option
 3. Taller cupola cover (RCC) is required when used with ROAM or other similar wireless monitoring control systems
 4. Standard failure mode: "Fall On"
 5. Photocontrols supplied with ANSI Standard Turn-On levels
 6. XL option is required
 7. Ships with unit, field installed
 8. Required when using ROAM or other similar wireless monitoring control systems



Warranty Five-year limited warranty. Complete warranty terms located at www.aelbrands.com/CustomerResources/terms_and_conditions.asp. Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice. Please contact your sales representative for the latest product information.



CMT		MOUNTAIN VIEW	
QUANTITY:	JOB NUMBER:	CAT. NO.:	TB23-D-50-3-H-T238
PO. NUMBER:	APPD BY:	SPECS:	TOT. LENGTH: 23'-0"
REV. DATE BY:	REMARKS:	EMBED. DEPTH: 4'-0"	LUM. WEIGHT: 50 lbs.
QUOTE:		TIP WIDTH: 4.41"	LUM. EPA: 3.50 sq.ft.
		WEIGHT: 50 lbs.	STATIC DEFL.:
			TOTAL DEFL.:
			DATE: 01/16/2017

LIGHT POLE OWNERSHIP AND RESPONSIBILITY:

DEVELOPER RESPONSIBLE FOR COST OF POLE DESIGN AND INSTALL

MVEA OWNS AND MAINTAINS LIGHT POLES UPON INSTALL

LOCAL DISTRICT/HOA RESPONSIBLE FOR LIGHT POLE ELECTRICITY COSTS

LIGHT POLE LOCATION WITHIN URBAN ROADWAY:

CRITERIA PER ECM 4.3.5.D.2

URBAN LOCAL CLEAR ZONE = 12'

POLE LOCATION = 6.5' MIN. FROM TBC AND 1.0' INSIDE 50' ROW

LIGHT POLE NOTES:

ALL LIGHT FIXTURES MOUNTED WITHIN 15' OF ANY RESIDENTIAL PROPERTY LINE OF THE SITE SHALL BE CLASSIFIED AS TYPE II OR TYPE III, OR FIXTURE DEMONSTRATED TO PROVIDE SIMILAR DISTRIBUTION PATTERNS AND SHIELDING PROPERTIES. FIXTURES SHALL BE FITTED WITH "HOUSE SIDE SHIELD" REFLECTORS ON THE SIDES FACING THE RESIDENTIAL PROPERTY LINE. LDC 6.2.3

HEIGHT, NO FREESTANDING LIGHT FIXTURES SHALL BE MOUNTED HIGHER THAN 15 FEET, EXCEPT PARKING LOT LIGHT FIXTURES WHICH SHALL BE MOUNTED NO HIGHER THAN 20 FEET UNLESS AN ALTERNATIVE LIGHTING PROPOSAL IS APPROVED IN ACCORDANCE WITH THIS CODE. LDC 6.2.3

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-21-49

FOREST LAKES FILING NO. 7
PUBLIC STREET IMPROVEMENT PLAN
STREET LIGHT POLE LOCATION PLAN

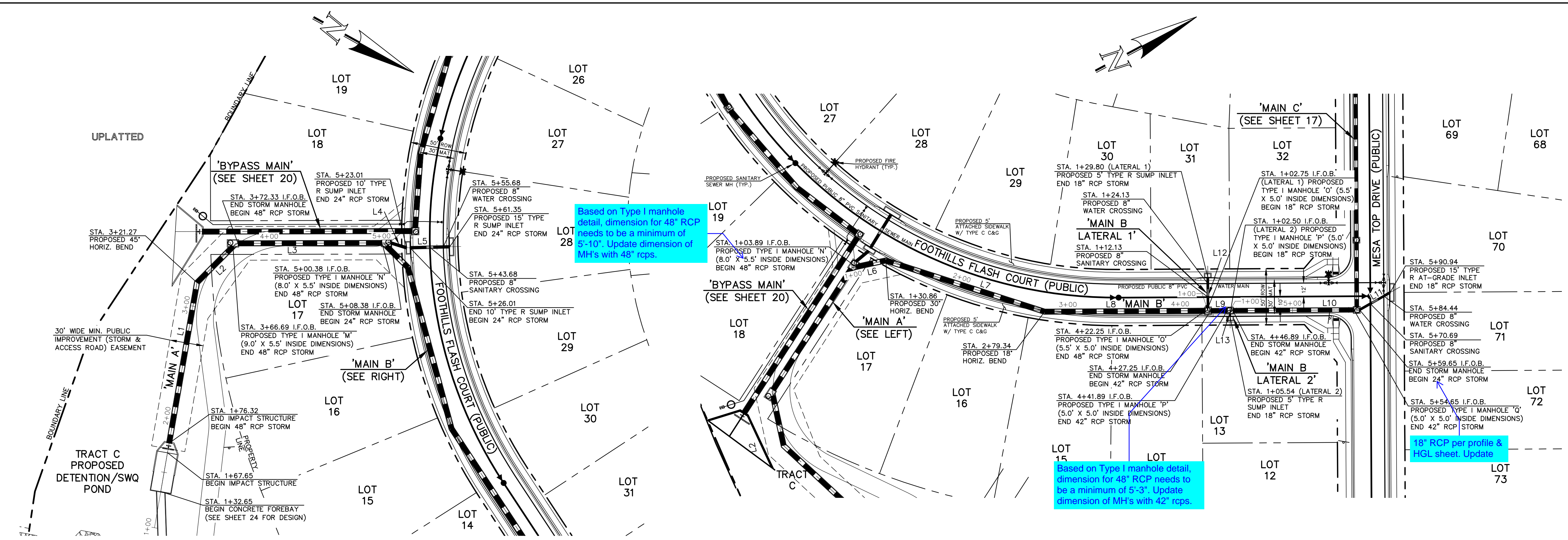
DESIGNED BY	MAL	SCALE	DATE	05/21/21
DRAWN BY	MES	(H) 1" = 100'	SHEET	15 OF 31
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.70	



Line #	Length	Direction
L1	144.95	S70°51'03"W
L2	45.42	N74°08'57"W
L3	128.05	N29°08'57"W
L4	14.63	N11°41'04"W
L5	35.34	N30°26'46"W
L6	26.97	S15°51'03"W
L7	148.48	S45°51'03"W
L8	142.90	S27°40'06"W
L9	14.64	S27°40'06"W
L10	107.76	S27°40'06"W
L11	31.29	N01°35'11"W
L12	27.05	N62°19'54"W
L13	3.04	N62°19'54"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 30-31.

Add note or pipe labels that storm pipes are Class 3, except for those with velocity in excess of 18 fps, and those shall be Class 4.

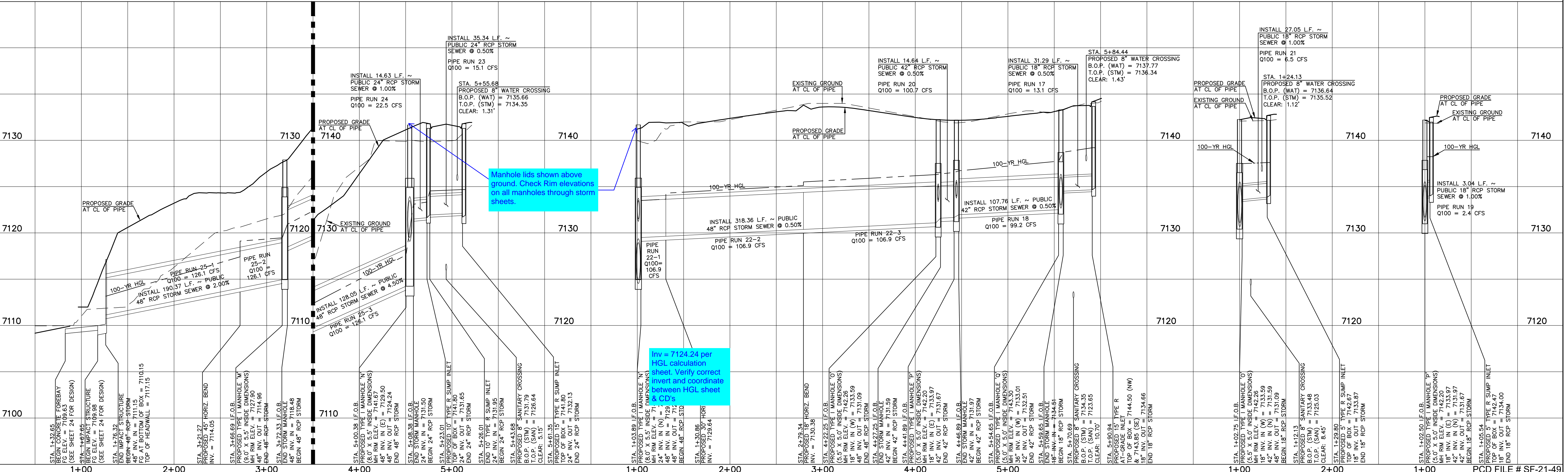


PUBLIC 48"/24" RCP STORM - 'MAIN A'

PUBLIC 48"/42"/18" RCP STORM - 'MAIN B'

PUBLIC 18" RCP STORM - 'MAIN B LATERAL 1'

PUBLIC 18" RCP STORM - 'MAIN B LATERAL 2'



Manhole lids shown above ground. Check Rim elevations on all manholes through storm sheets.

Inv = 7124.24 per HGL calculation sheet. Verify correct invert and coordinate between HGL sheet & CD.

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

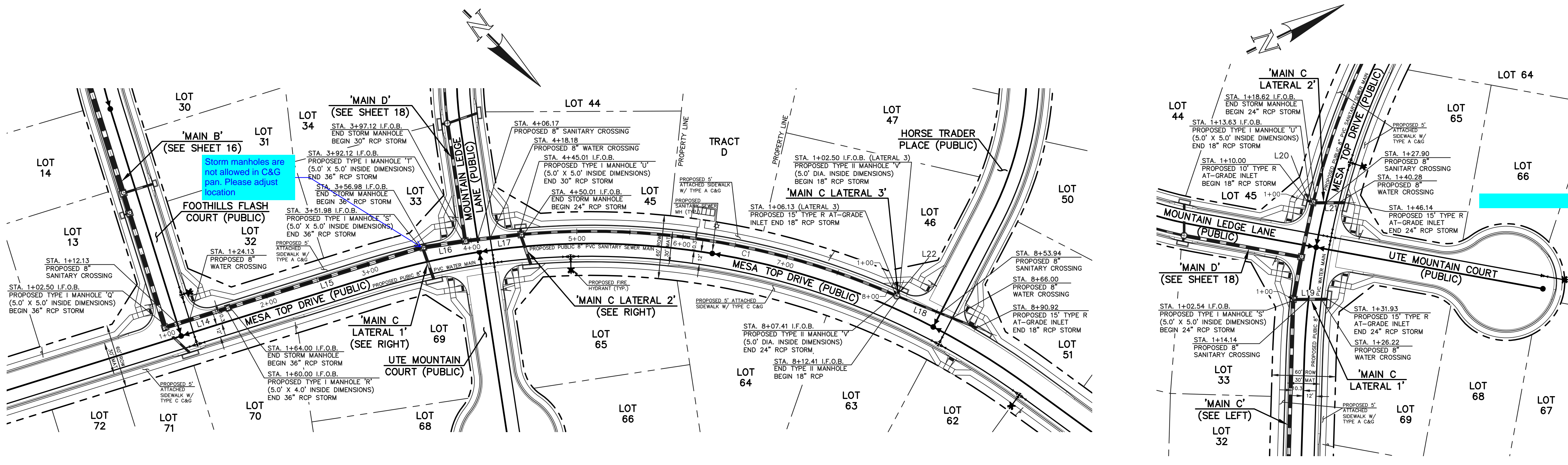
REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
KYLE R. CAMPBELL, COLORADO P.E. #29794



FOREST LAKES FILING NO. 7
CONSTRUCTION PLANS
PUBLIC STORM SEWER PLAN
'MAIN A'/'MAIN B'/'MAIN B' LATERALS 1-2'

DESIGNED BY	MAL	SCALE	DATE	06/01/21
DRAWN BY	MES	(H) 1" = 50'	SHEET	16 OF 31
CHECKED BY	(V) 1" = 5'	JOB NO.	1175.70	

50 25 0 50 100
SCALE: 1" = 50' HORIZ. / 1" = 5' VERT.



Line #	Length	Direction
L14	57.50	S62°19'54"E
L15	187.98	S62°19'54"E
L16	35.14	S53°37'49"E
L17	47.89	S51°35'38"E
L18	78.51	N23°17'29"W
L19	29.39	N25°34'54"E
L20	3.63	N39°53'59"E
L21	27.50	S25°46'02"W
L22	3.63	N68°52'49"E

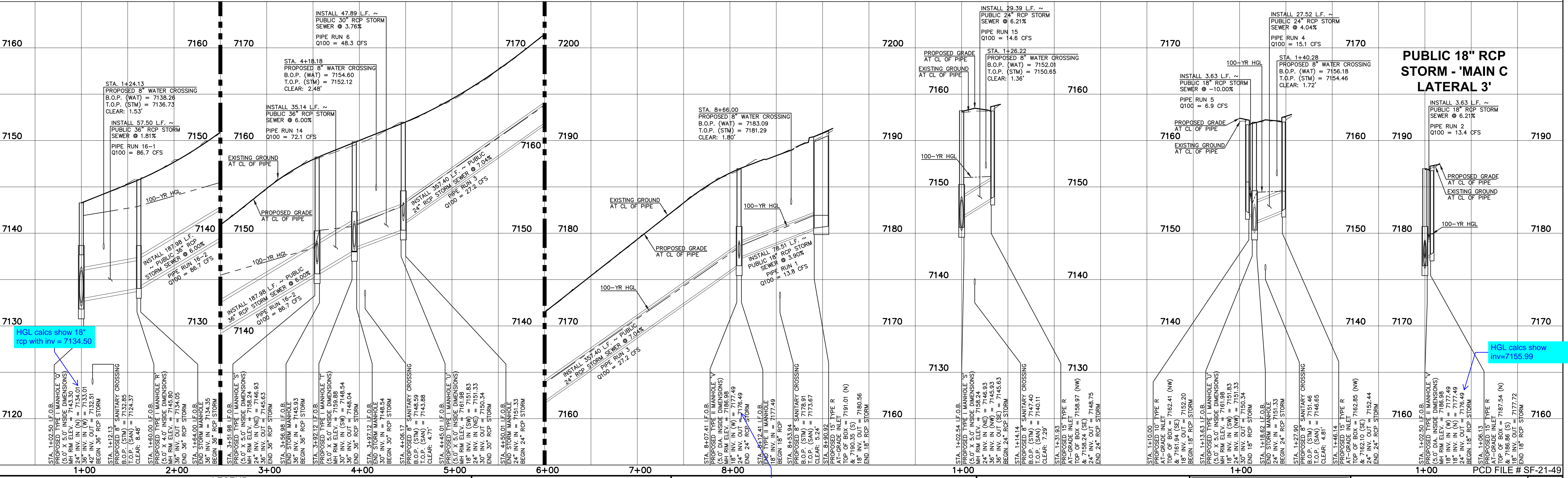
Curve #	Delta	Length	Radius
C1	28°46'43"	357.39	711.54

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 30-31.

PUBLIC 36"/30"/24"/18" RCP STORM - 'MAIN C'

PUBLIC 24" RCP STORM - 'MAIN C LATERAL 1'

PUBLIC 24"/18" RCP STORM - 'MAIN C LATERAL 2'



HGL calcs show 18" rcp with inv=7134.50

HGL calcs show inv=7155.99

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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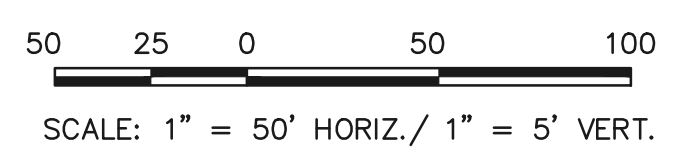
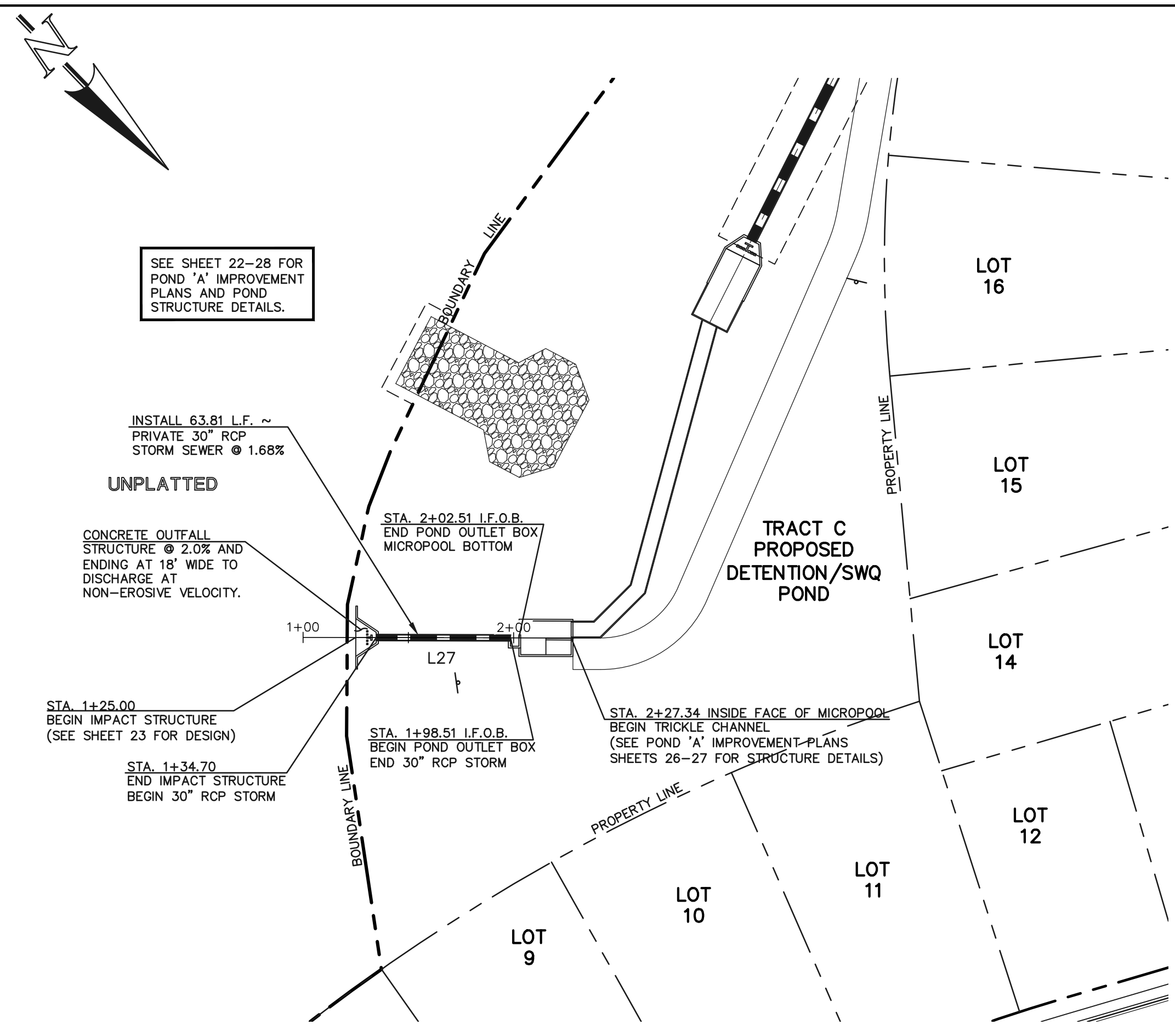
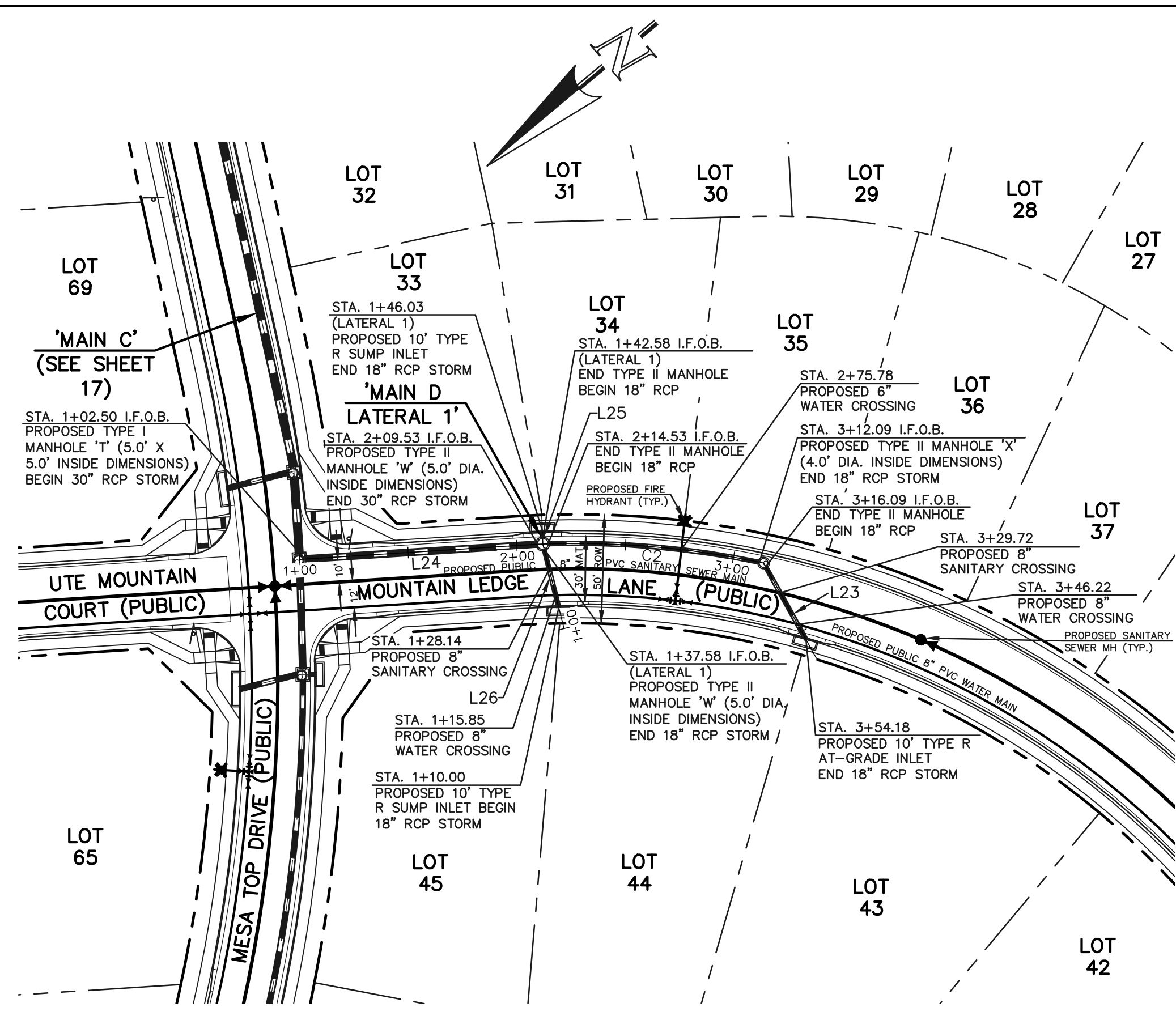
NO.	REVISION	DATE
	HGL calcs show inv=7155.99	

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. 7
CONSTRUCTION PLANS
PUBLIC STORM SEWER PLAN
'MAIN C' / 'MAIN C LATERALS 1-3'
DESIGNED BY: MAL SCALE: (H) 1" = 50' DATE: 06/01/21
DRAWN BY: MES (V) 1" = 5' SHEET 17 OF 31
CHECKED BY: DATE: JOB NO. 1175.70

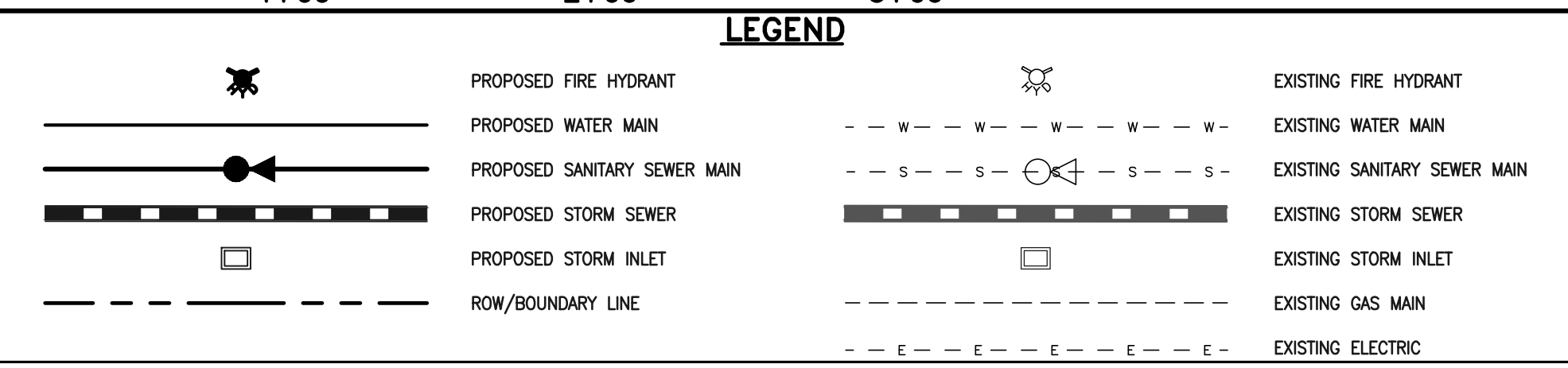
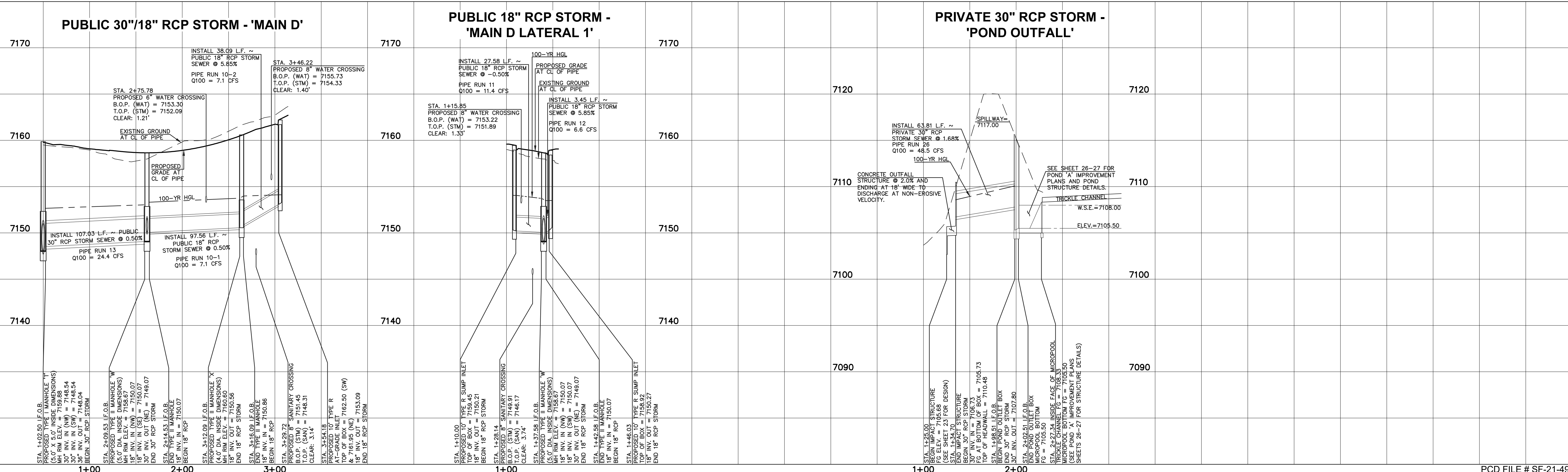
K:\17570\DRAWINGS\CONSTRUCTION\17-117570-SW-03.dwg, 2/6/2022 5:11:16 PM, 1/1



Line #	Length	Direction
L23	38.08	N78°59'33\"W
L24	107.03	S36°22'11\"W
L25	3.45	N52°08'47\"W
L26	27.58	N63°58'20\"W
L27	63.81	N45°53'34\"W

Curve #	Delta	Length	Radius
C2	13°34'46\"	97.56	411.65

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 30-31.



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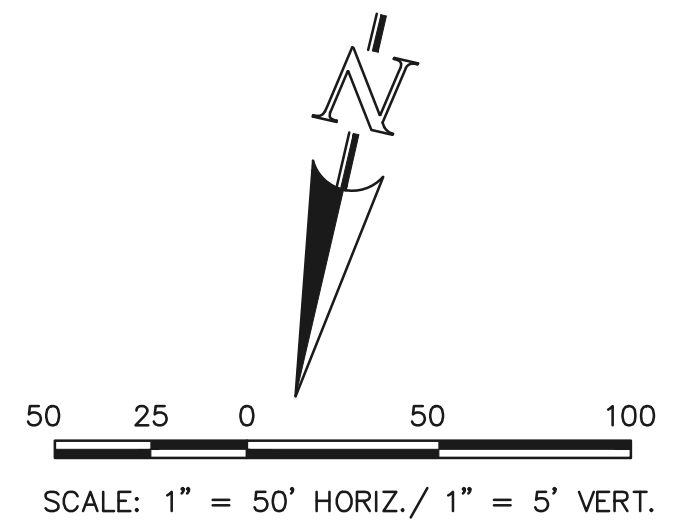
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE



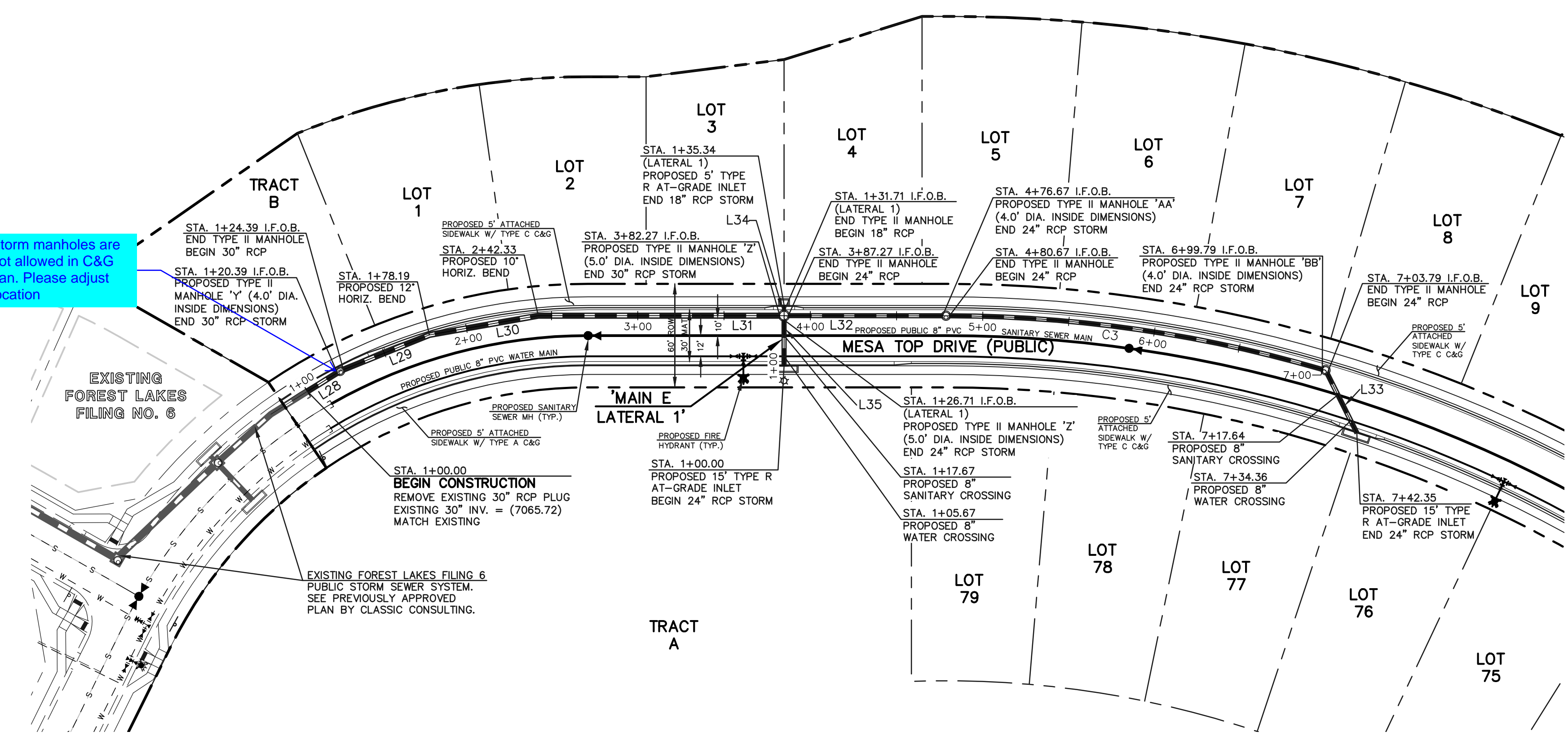
FOREST LAKES FILING NO. 7			
CONSTRUCTION PLANS			
PUBLIC STORM SEWER PLAN			
'MAIN D'/MAIN D LATERAL 1'/POND OUTFALL'			
DESIGNED BY	MAL	SCALE	DATE 06/01/21
DRAWN BY	MES	(H) 1" = 50'	SHEET 18 OF 31
CHECKED BY	(V) 1" = 5'	JOB NO.	1175.70

K:\1175\DWG\AWINGS\CONSTRUCT\CDX\STORMA18-117570-SW-04.dwg, 2/7/2022 9:37:07 AM, 1/1

PCD FILE # SF-21-49



Storm manholes are not allowed in C&G pan. Please adjust location



STORM LINE TABLE		
Line #	Length	Direction
L28	20.39	N45°00'16"E
L29	53.80	N55°00'16"E
L30	64.14	N67°00'16"E
L31	139.94	N77°00'16"E
L32	89.40	N77°00'16"E
L33	38.56	S39°32'06"E
L34	3.63	N12°59'44"W
L35	26.71	N12°59'44"W

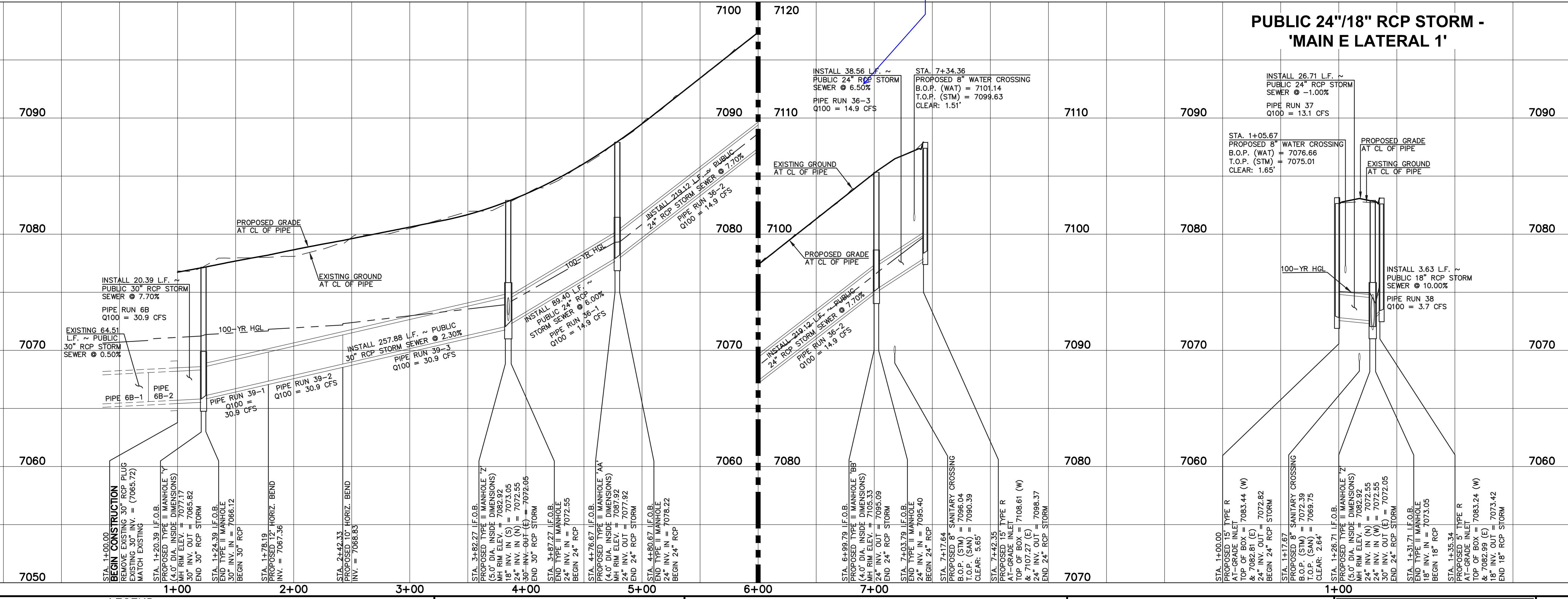
STORM CURVE TABLE			
Curve #	Delta	Length	Radius
C3	16°03'50"	219.12	781.54

NOTES:
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 STORM MANHOLE AND INLET DETAILS ARE LOCATED ON SHEET 30-31.

HGL sheet shows 7.7%. Coordinate and update between CD's and HGL sheet accordingly.

PUBLIC 30"/24" RCP STORM - 'MAIN E'

PUBLIC 24"/18" RCP STORM - 'MAIN E LATERAL 1'



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

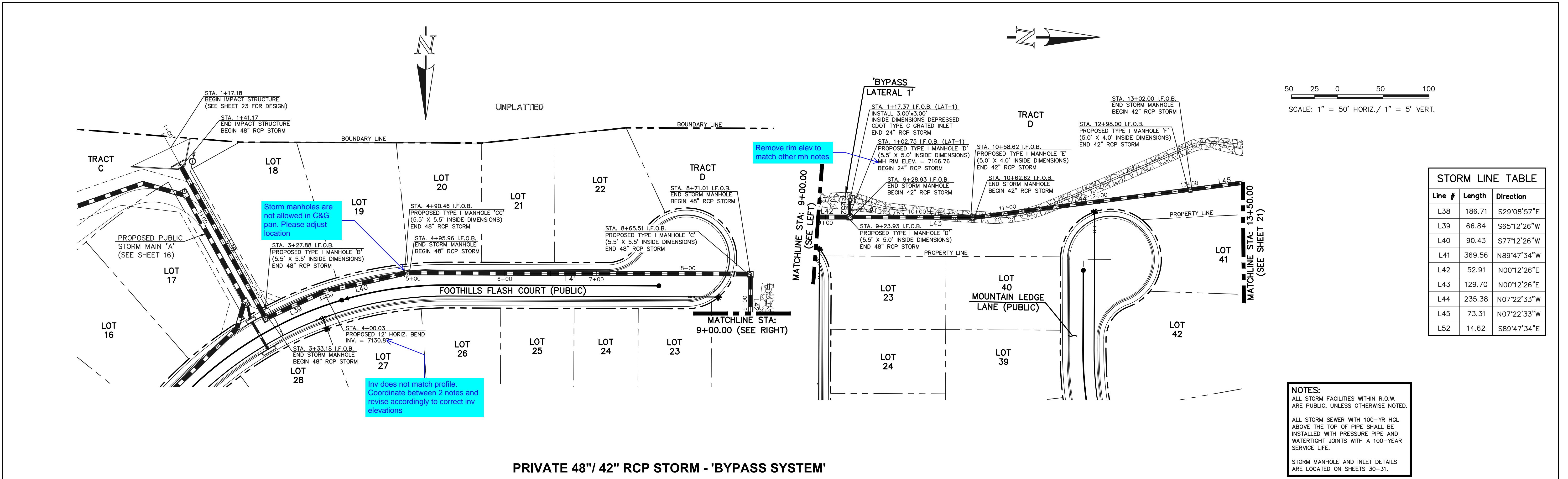
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REVIEW:
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 KYLE R. CAMPBELL, COLORADO P.E. #29794

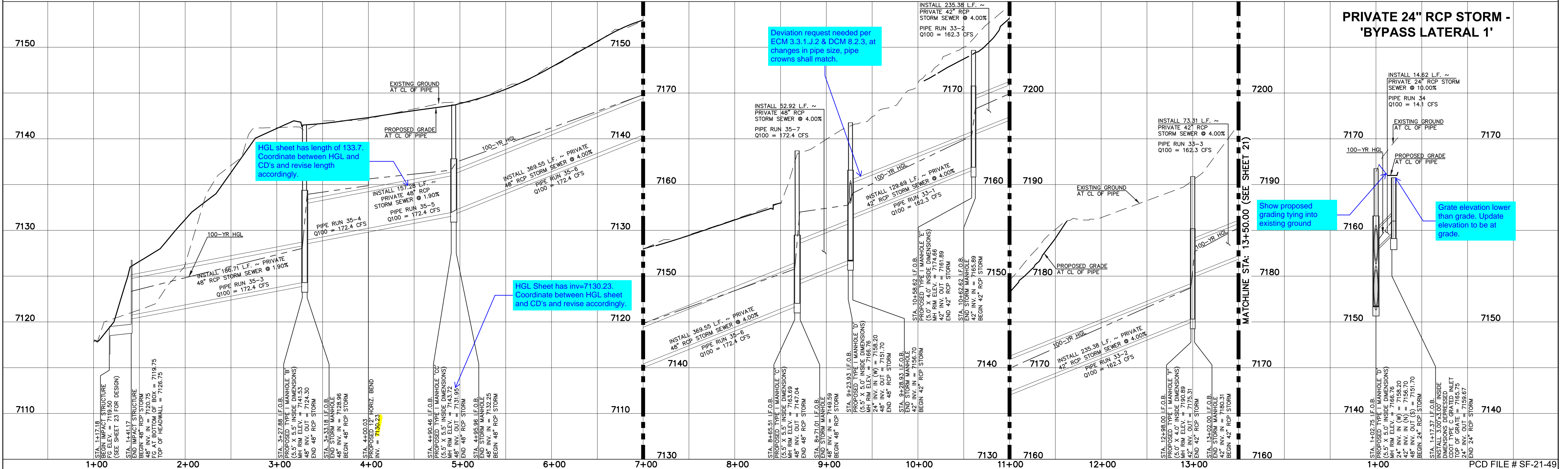


FOREST LAKES FILING NO. 7
 CONSTRUCTION PLANS
 PUBLIC STORM SEWER PLAN
 'MAIN E' / 'MAIN E LATERAL 1'
 DESIGNED BY: MAL SCALE: (H) 1" = 50' DATE: 06/01/21
 DRAWN BY: MES SHEET 19 OF 31
 CHECKED BY: (V) 1" = 5' JOB NO. 1175.70



PRIVATE 48"/ 42" RCP STORM - 'BYPASS SYSTEM'

PRIVATE 24" RCP STORM - 'BYPASS LATERAL 1'

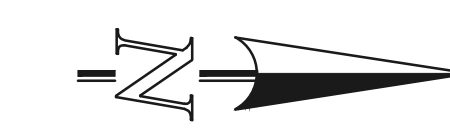


 FOREST LAKES FILING NO. 7 CONSTRUCTION PLANS PUBLIC STORM SEWER PLAN 'BYPASS SYSTEM' STA. 1+00-13+50/ 'BYPASS LATERAL 1'	DESIGNED BY	MAL	SCALE	(H) 1" = 50'	DATE	06/01/21
	DRAWN BY	MES	(V) 1" = 5'	SHEET	20	OF 31
CHECKED BY	(V)	DATE	JOB NO.	1175.70		

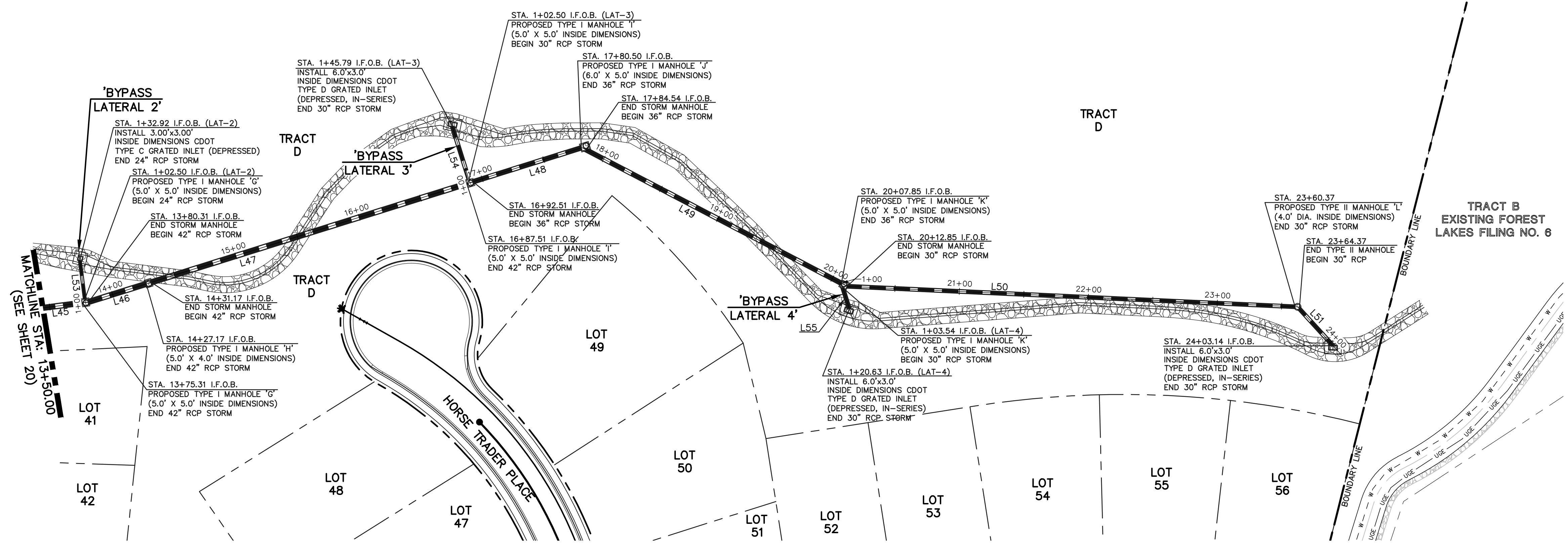
REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
 KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE

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

N:\1175\DWG\ARWINGS\CONSTRUCT\CDX\STORM\CD-1175-01-30-06.dwg, 2/16/2022 5:14:34 PM, 1/1



50 25 0 50 100
SCALE: 1" = 50' HORIZ./ 1" = 5' VERT.



Line #	Length	Direction
L45	73.31	N07°22'33"W
L46	46.86	N17°22'33"W
L47	256.34	N17°22'33"W
L48	87.99	N17°22'33"W
L49	223.31	N27°37'09"E
L50	347.52	S02°37'09"W
L51	38.77	S47°37'09"W
L53	30.42	N82°37'27"E
L54	43.29	N72°37'27"E
L55	17.09	S72°37'09"W

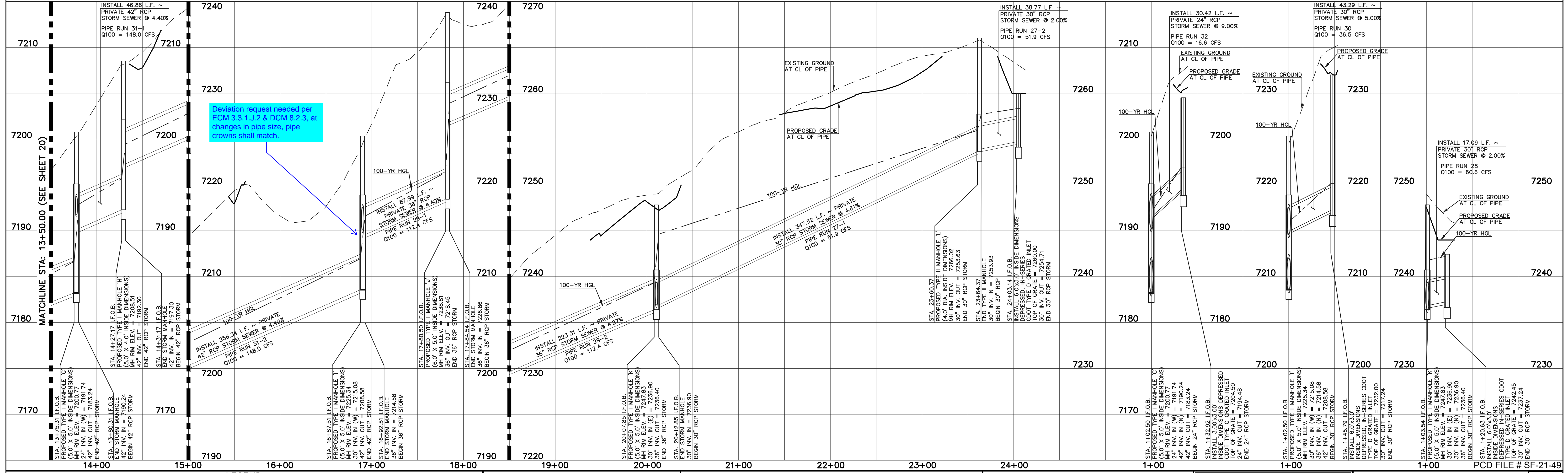
NOTES:
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STORM MANHOLE AND INLET DETAILS ARE LOCATED ON SHEETS 30-31.

PRIVATE 42"/ 36"/ 30" RCP STORM - 'BYPASS SYSTEM'

PRIVATE 24" RCP STORM - 'BYPASS LATERAL 2'

PRIVATE 30" RCP STORM - 'BYPASS LATERAL 3'

PRIVATE 30" RCP STORM - 'BYPASS LATERAL 4'



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

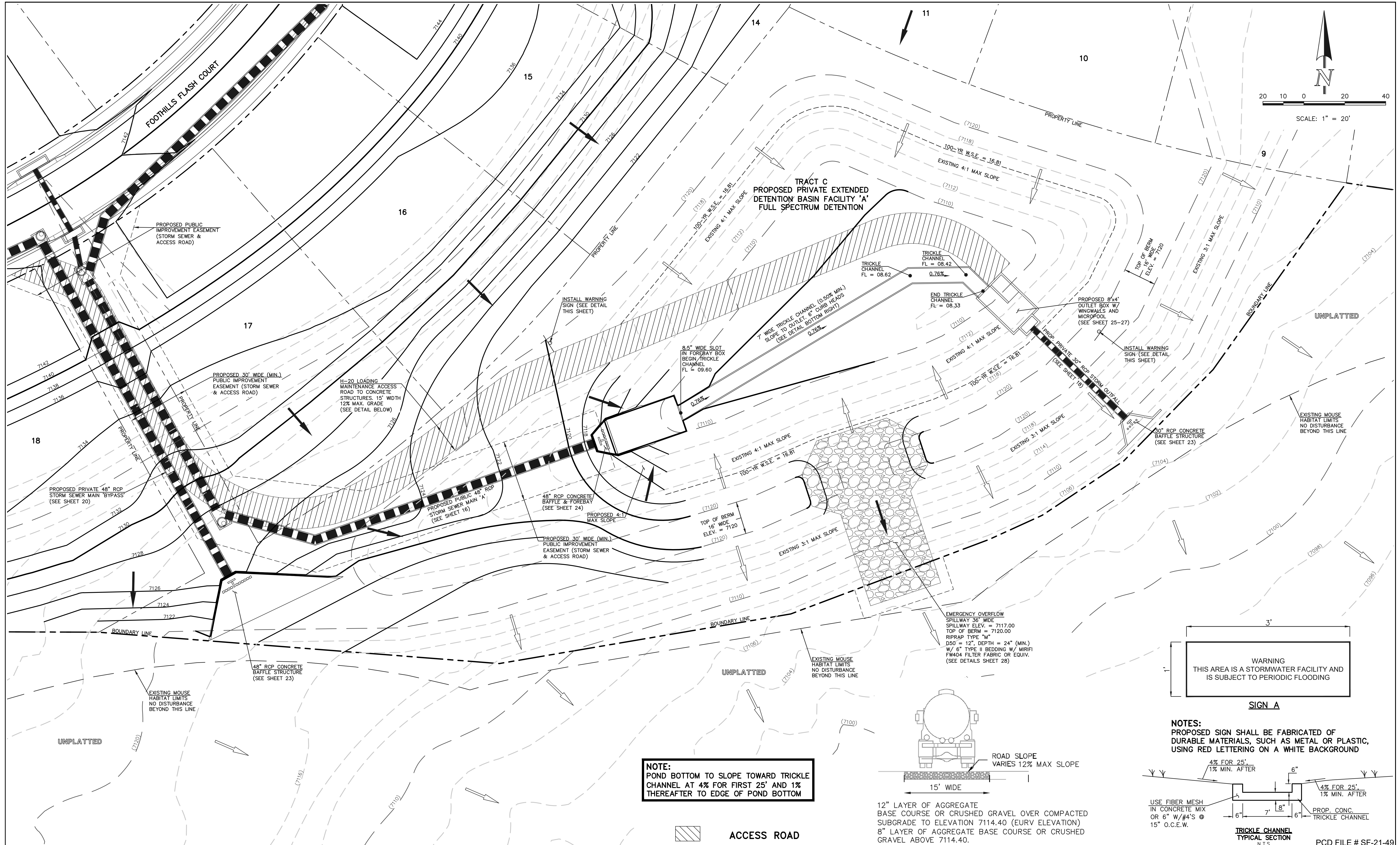
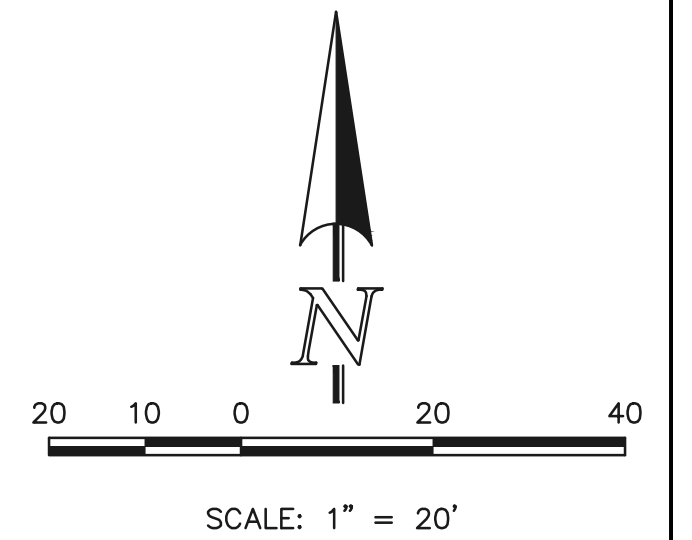
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NO.	REVISION	DATE

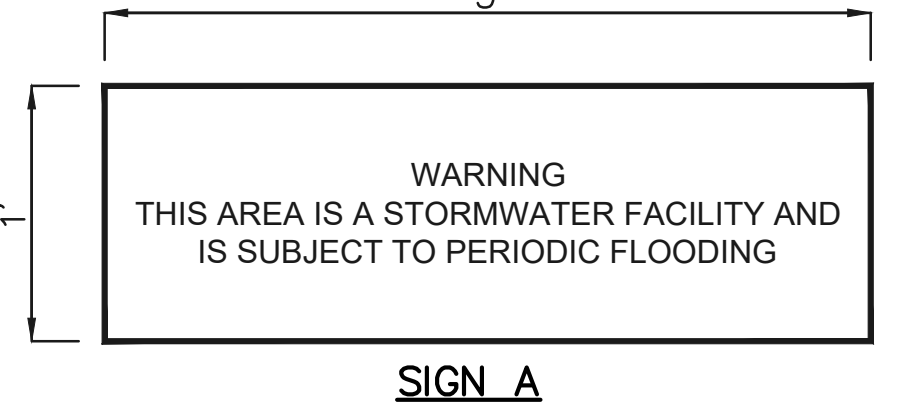
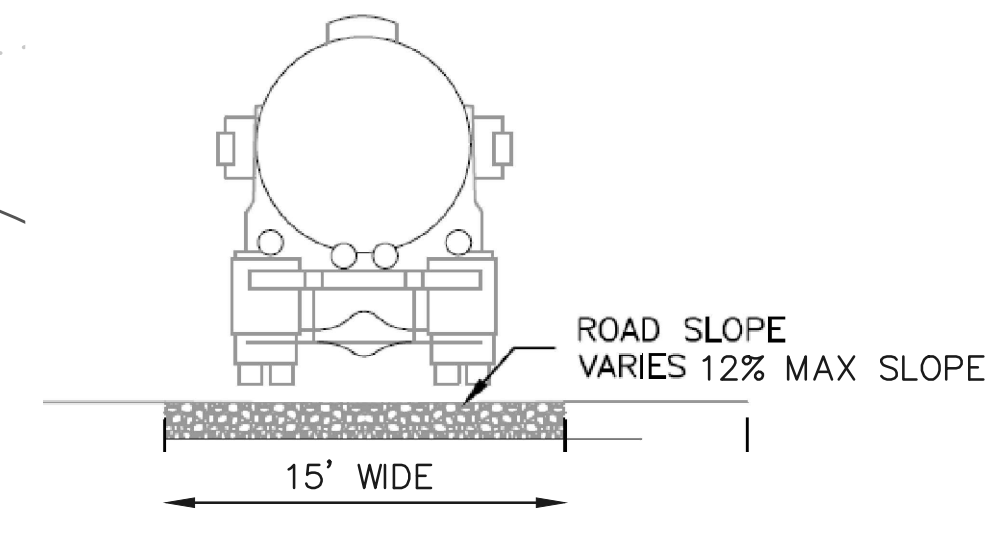
REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE



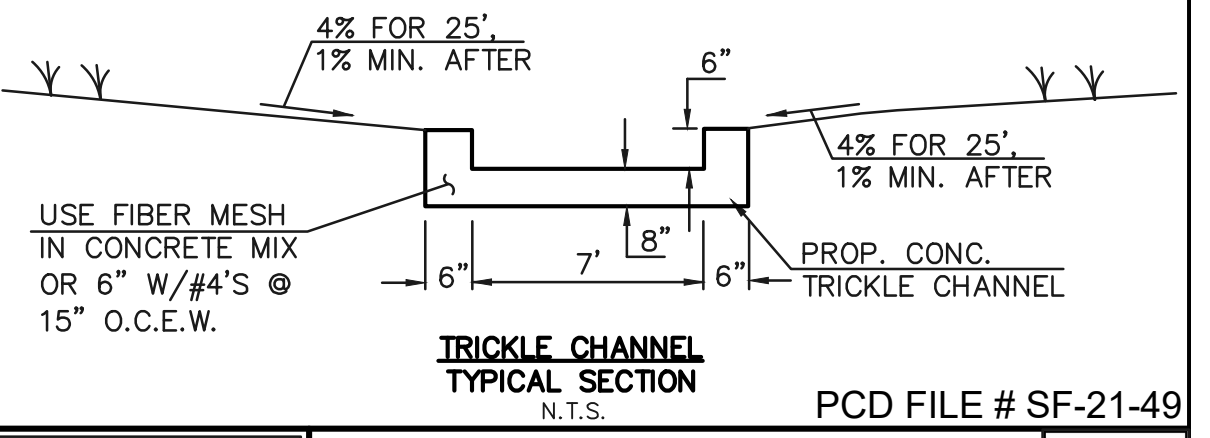
FOREST LAKES FILING NO. 7
CONSTRUCTION PLANS
PUBLIC STORM SEWER PLAN
'BYPASS SYSTEM' STA. 13+50-END / 'BYPASS LATERALS 2-4'
DESIGNED BY: MAL SCALE: (H) 1" = 50' DATE: 06/01/21
DRAWN BY: MES SHEET: 21 OF 31
CHECKED BY: (V) 1" = 5' JOB NO.: 1175.70



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



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



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

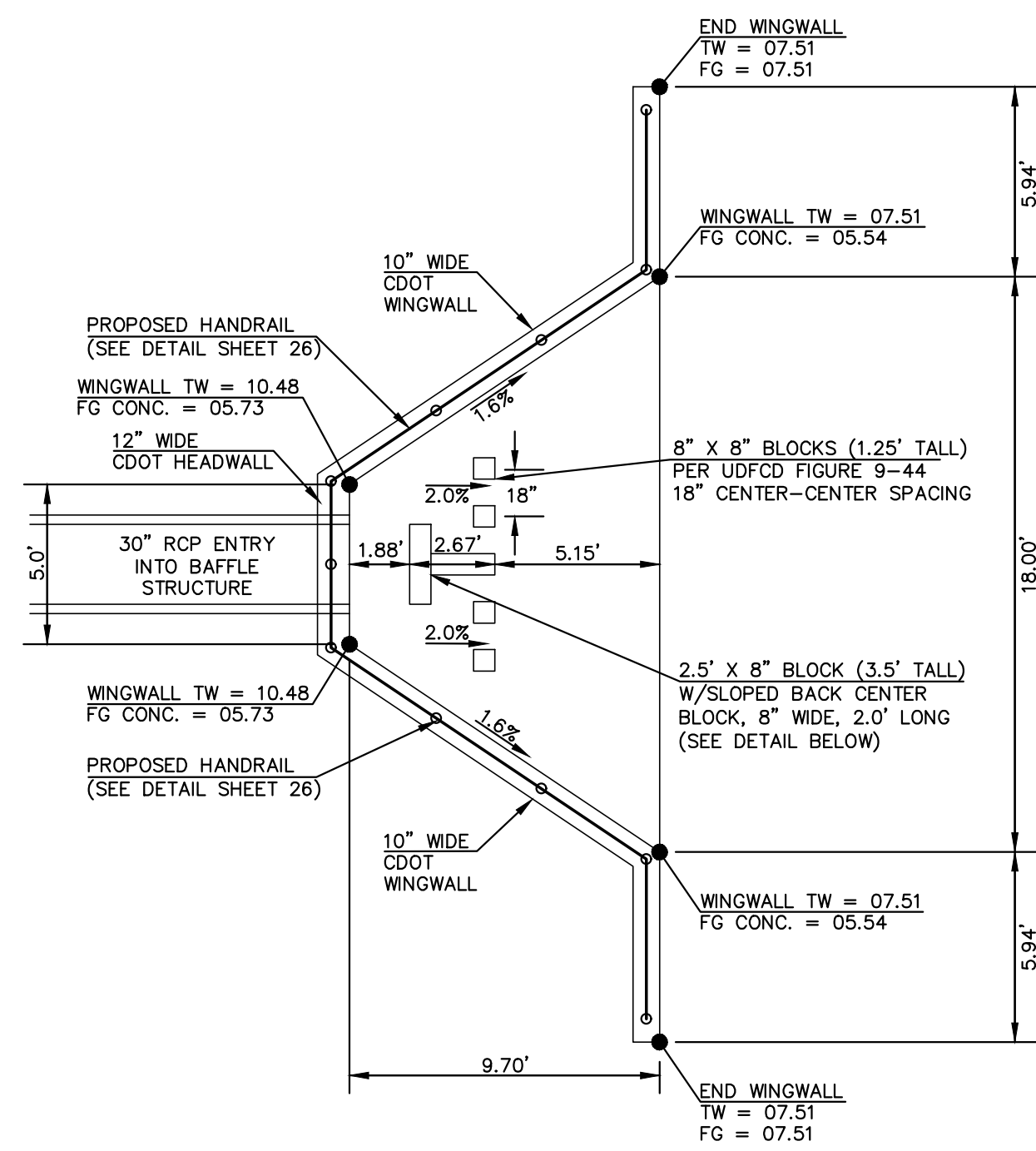


FOREST LAKES FILING NO. 7
CONSTRUCTION PLANS
PRIVATE POND "A"
EDB - FULL SPECTRUM DETENTION

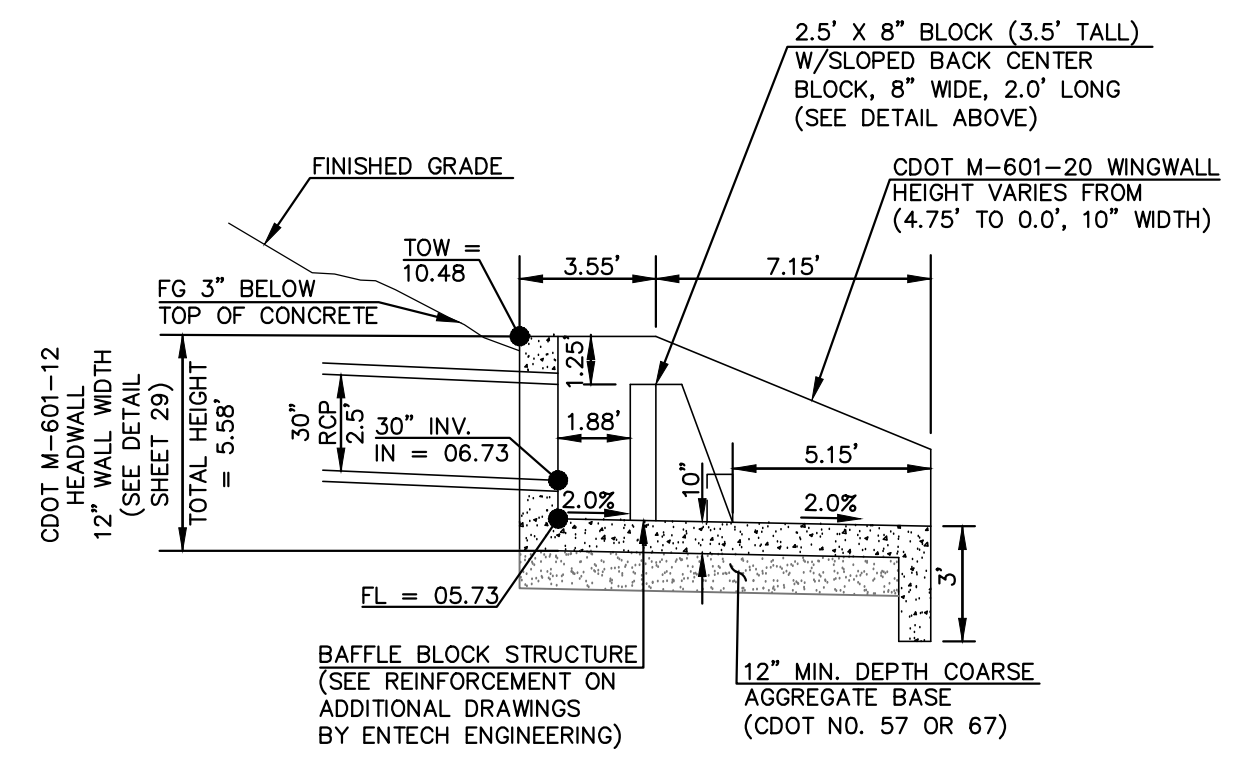
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CHECKED BY	(V) 1" = N/A	JOB NO.	1175.70	

PCD FILE # SF-21-49

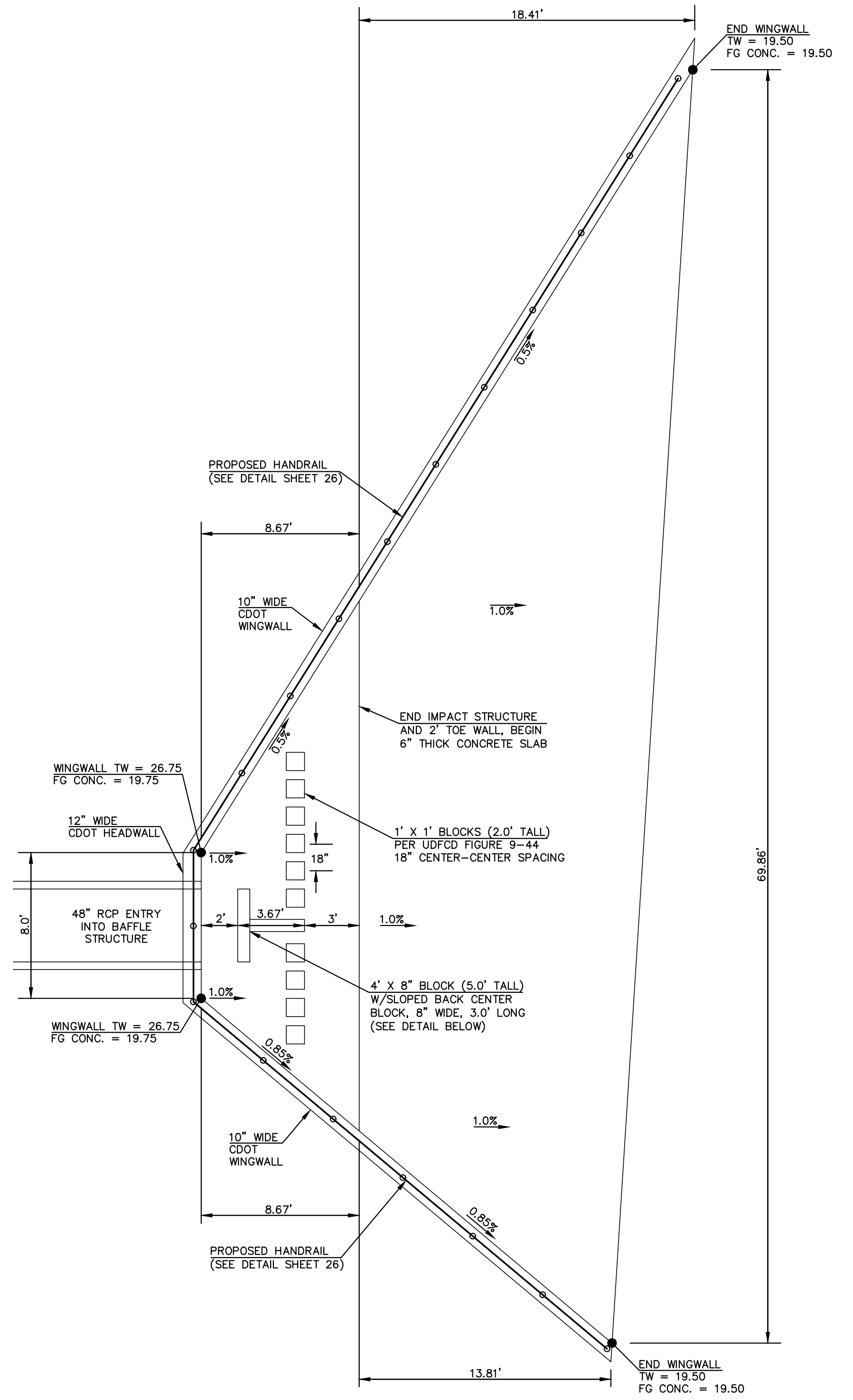
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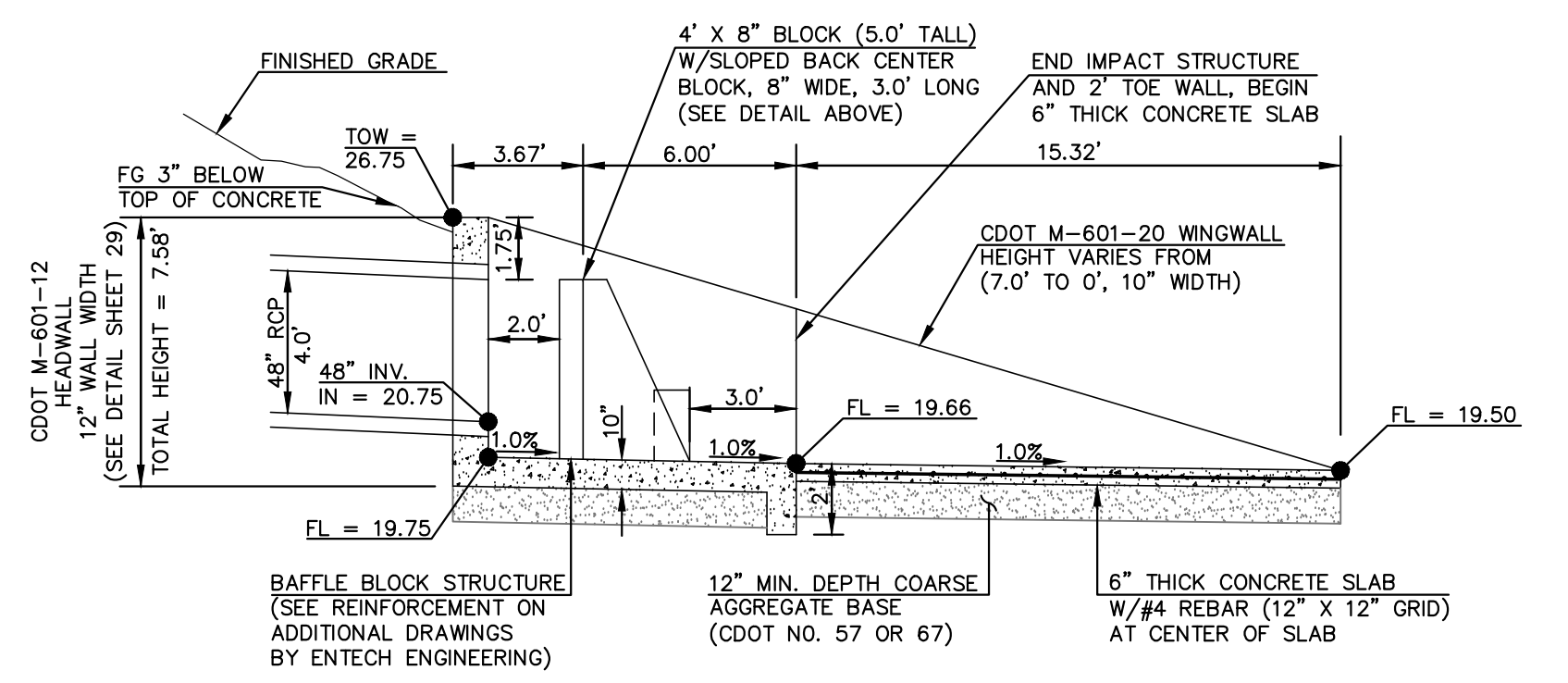
OUTFALL (POND A) 30" RCP BAFFLE STRUCTURE - PLAN VIEW
SCALE 1" = 5'



OUTFALL 30" RCP BAFFLE STRUCTURE - PROFILE VIEW
SCALE 1" = 5'



BYPASS MAIN 48" RCP BAFFLE STRUCTURE - PLAN VIEW
SCALE 1" = 5'



BYPASS MAIN 48" RCP BAFFLE STRUCTURE - PROFILE VIEW
SCALE 1" = 5'

N:\175\DRAWINGS\CONSTRUCT\BOX\STORM\23-117570-570-09-30m-48m-baffle.dwg, 2/2/2022 5:34:42 PM, 1:1

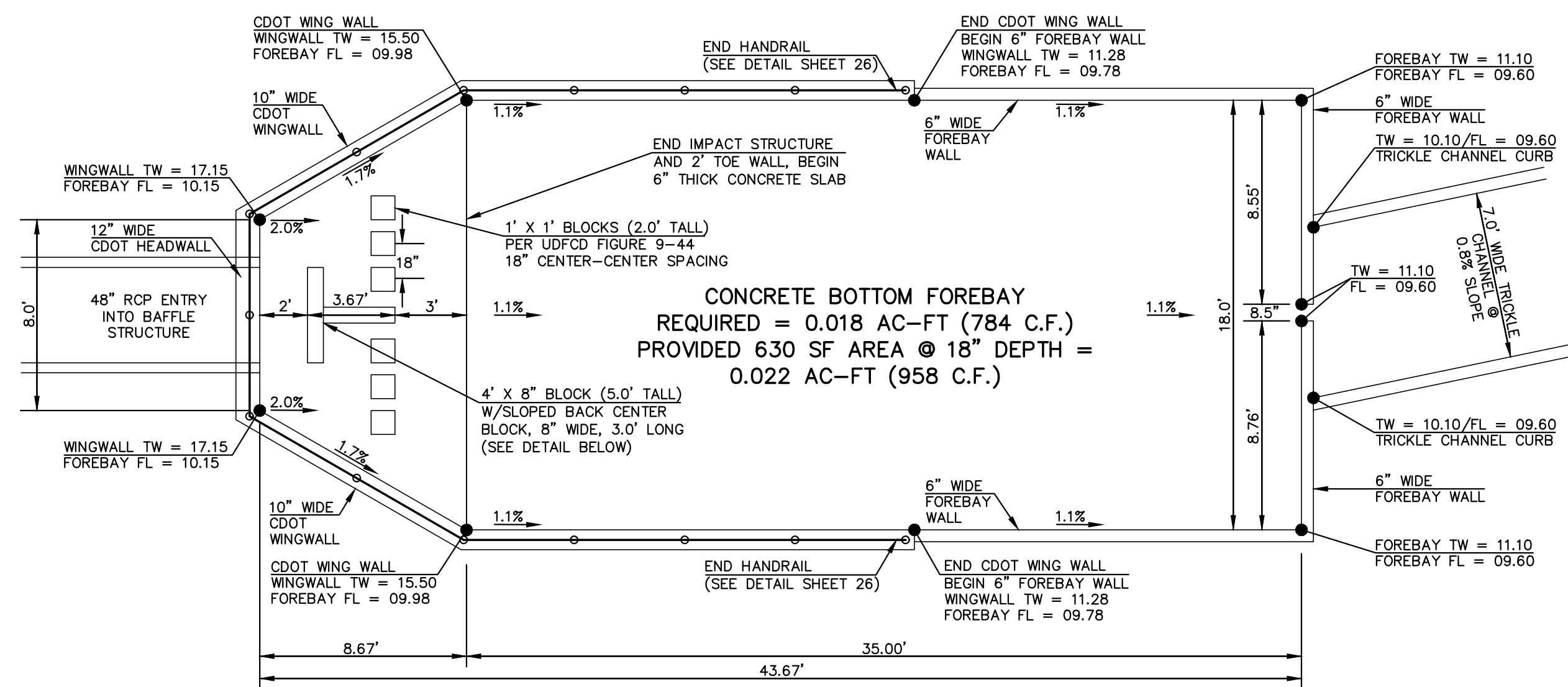
<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS</p> <p>811</p> <p>UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</p> <p>THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING 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>	NO. REVISION	DATE	REVIEW:

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

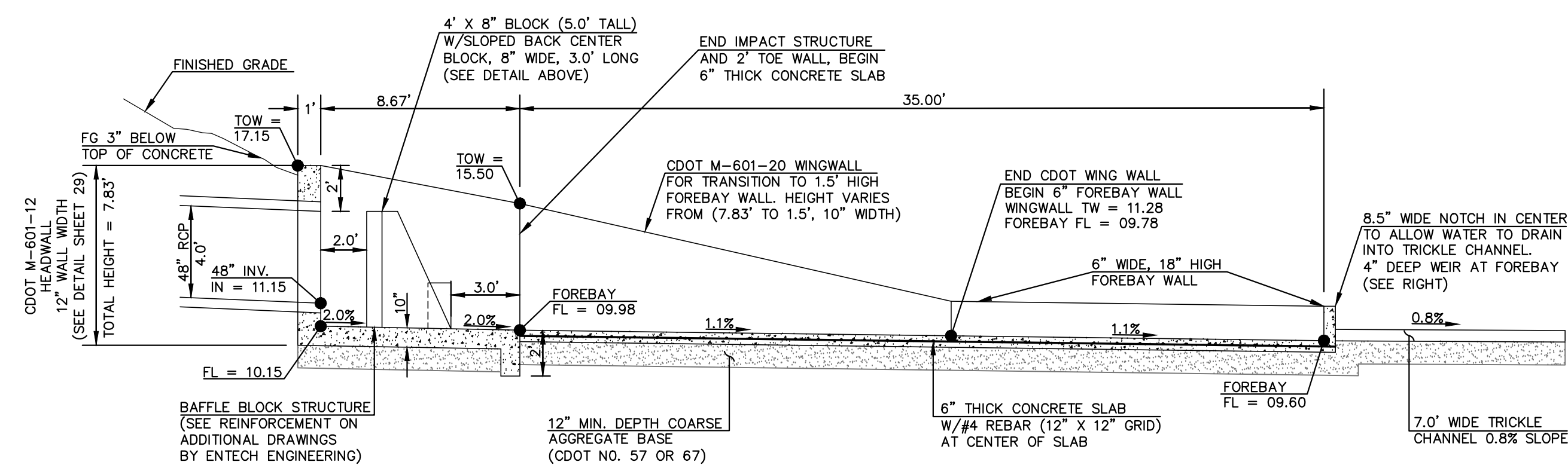
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE



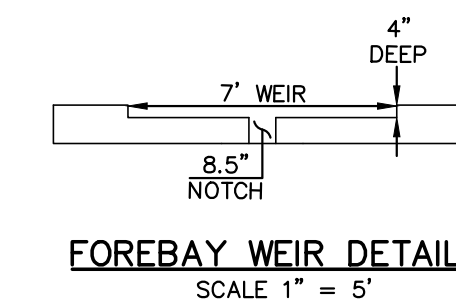
PCD FILE # SF-21-49			
FOREST LAKES FILING NO. 7			
CONSTRUCTION PLANS			
OUTFALL L- 30" IMPACT STRUCTURE			
BYPASS MAIN - 48" IMPACT STRUCTURE			
DESIGNED BY	MAL	SCALE	DATE 11/23/21
DRAWN BY	MES	(H) 1" = 5'	SHEET 23 OF 31
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.70



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-21-49

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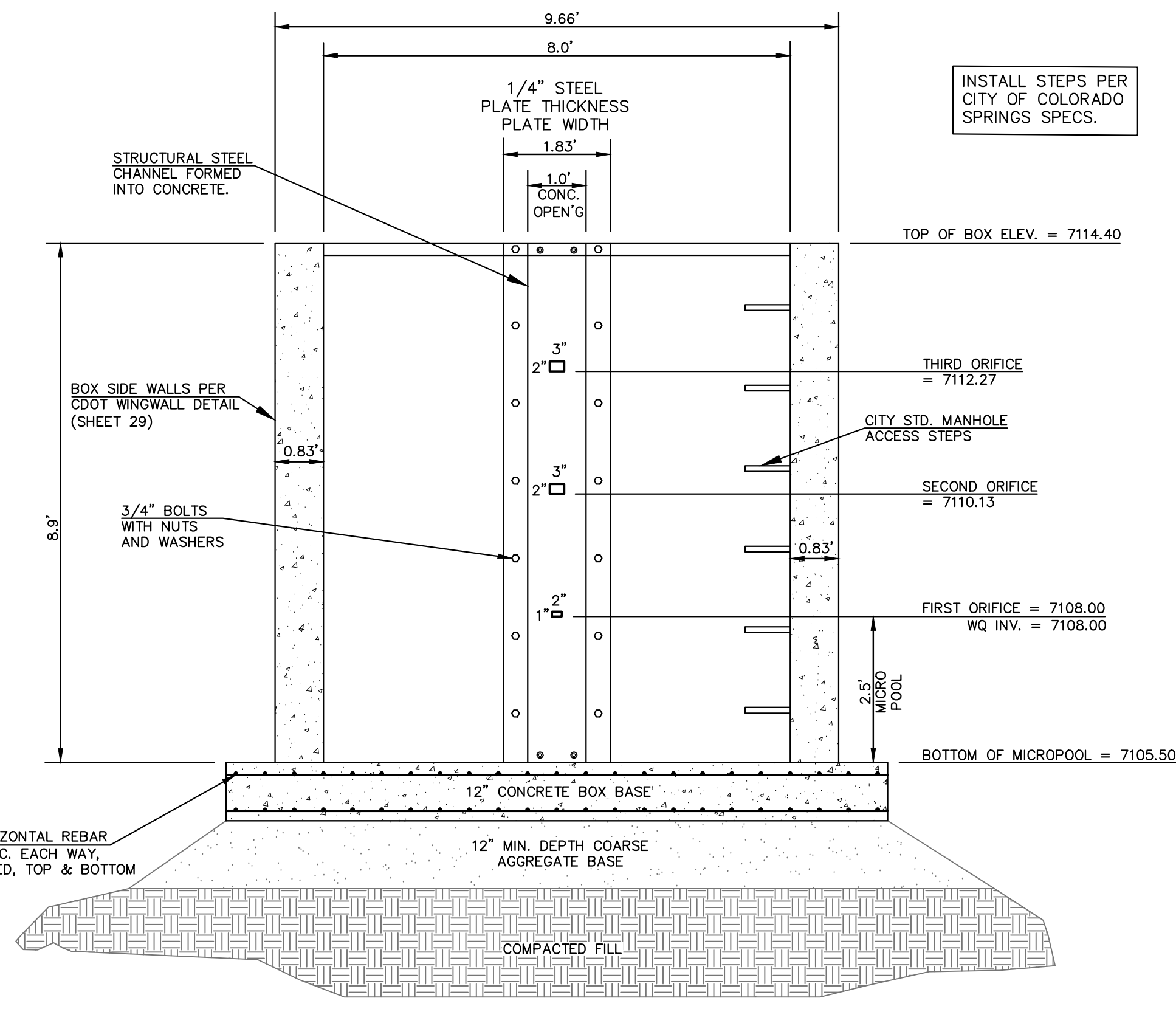
NO.	REVISION	DATE

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

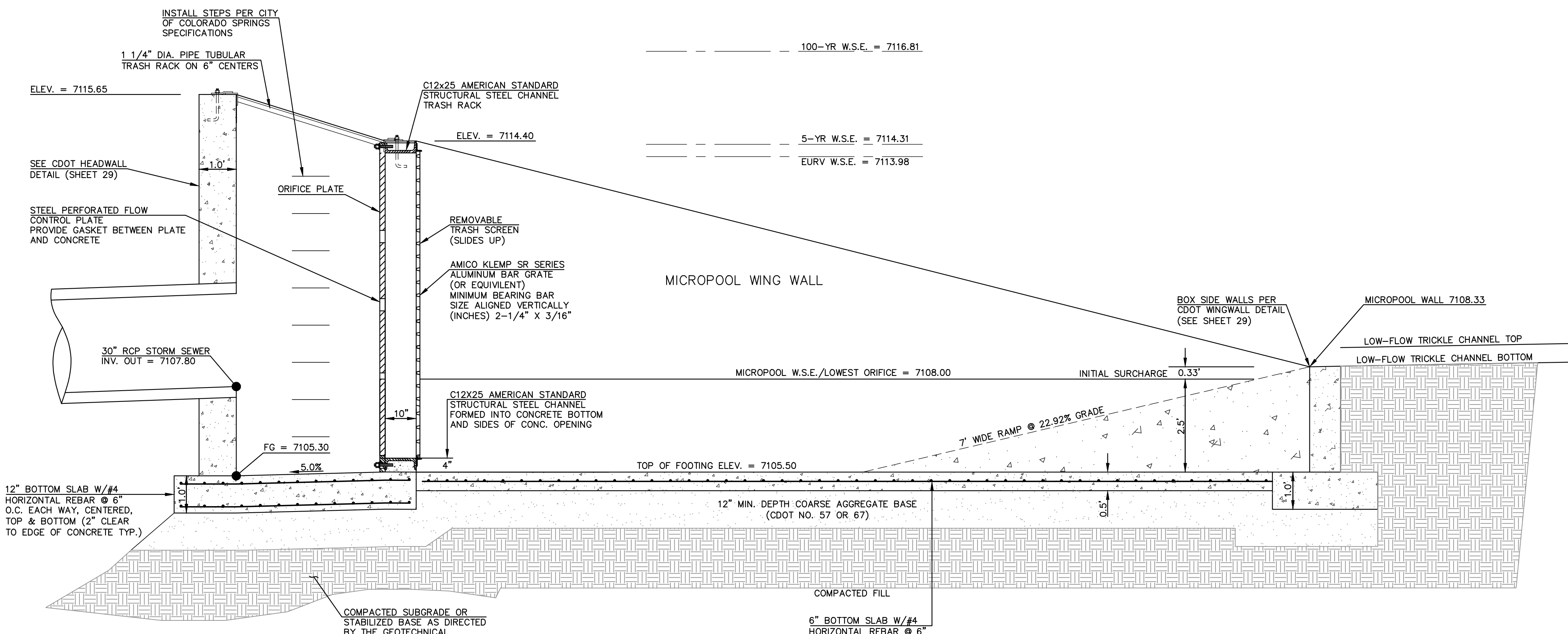


FOREST LAKES FILING NO. 7 CONSTRUCTION PLANS			
MAIN 'A' - 48" IMPACT STRUCTURE & FOREBAY			
DESIGNED BY	MAL	SCALE	DATE 11/23/21
DRAWN BY	MES	(H) 1" = 5'	SHEET 24 OF 31
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.70

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8'X4' OUTLET BOX ORIFICE PLATE
SCALE 1" = 2'



8'X4' OUTLET BOX MICRO POOL
SCALE 1" = 2'

N:\17520\DRAWINGS\CONSTRUCT\BOX\STORM\25-117520-57M-11-outlet structure.dwg, 2/7/2022 9:41:20 AM, 1:1

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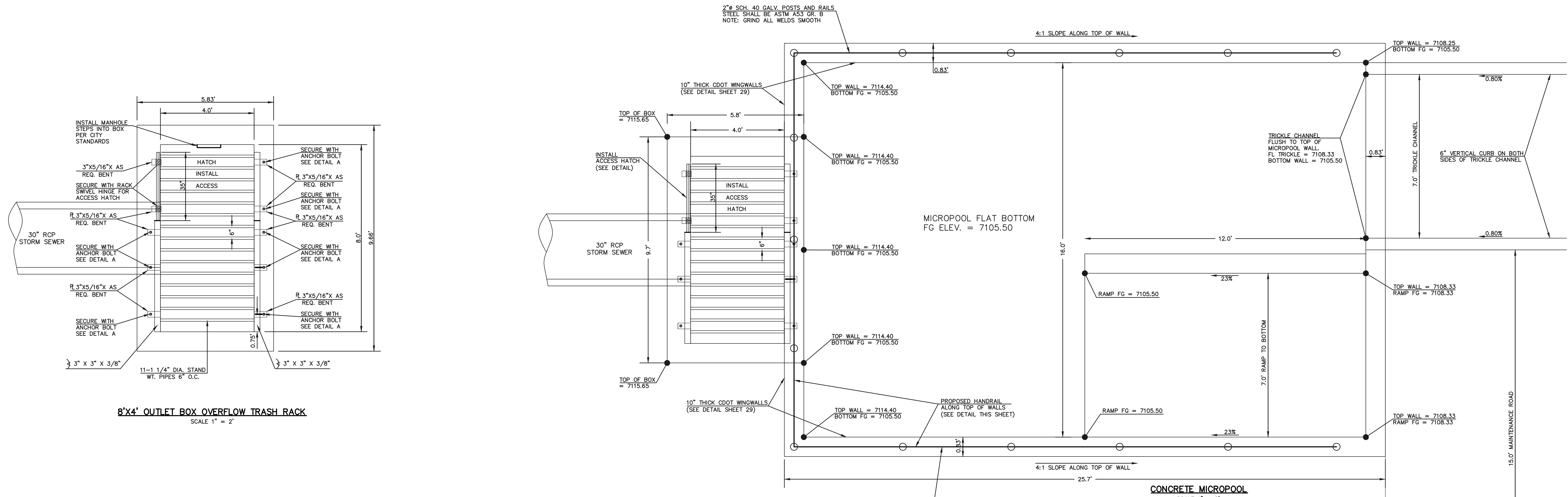
KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE



PCD FILE # SF-21-49

FOREST LAKES FILING NO. 7 CONSTRUCTION PLANS			
POND OUTLET BOX - PROFILE VIEW			
DESIGNED BY	MAL	SCALE	DATE 11/23/21
DRAWN BY	MES	(H) 1" = 2'	SHEET 25 OF 31
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.70





8'X4' OUTLET BOX OVERFLOW TRASH RACK
SCALE 1" = 2'

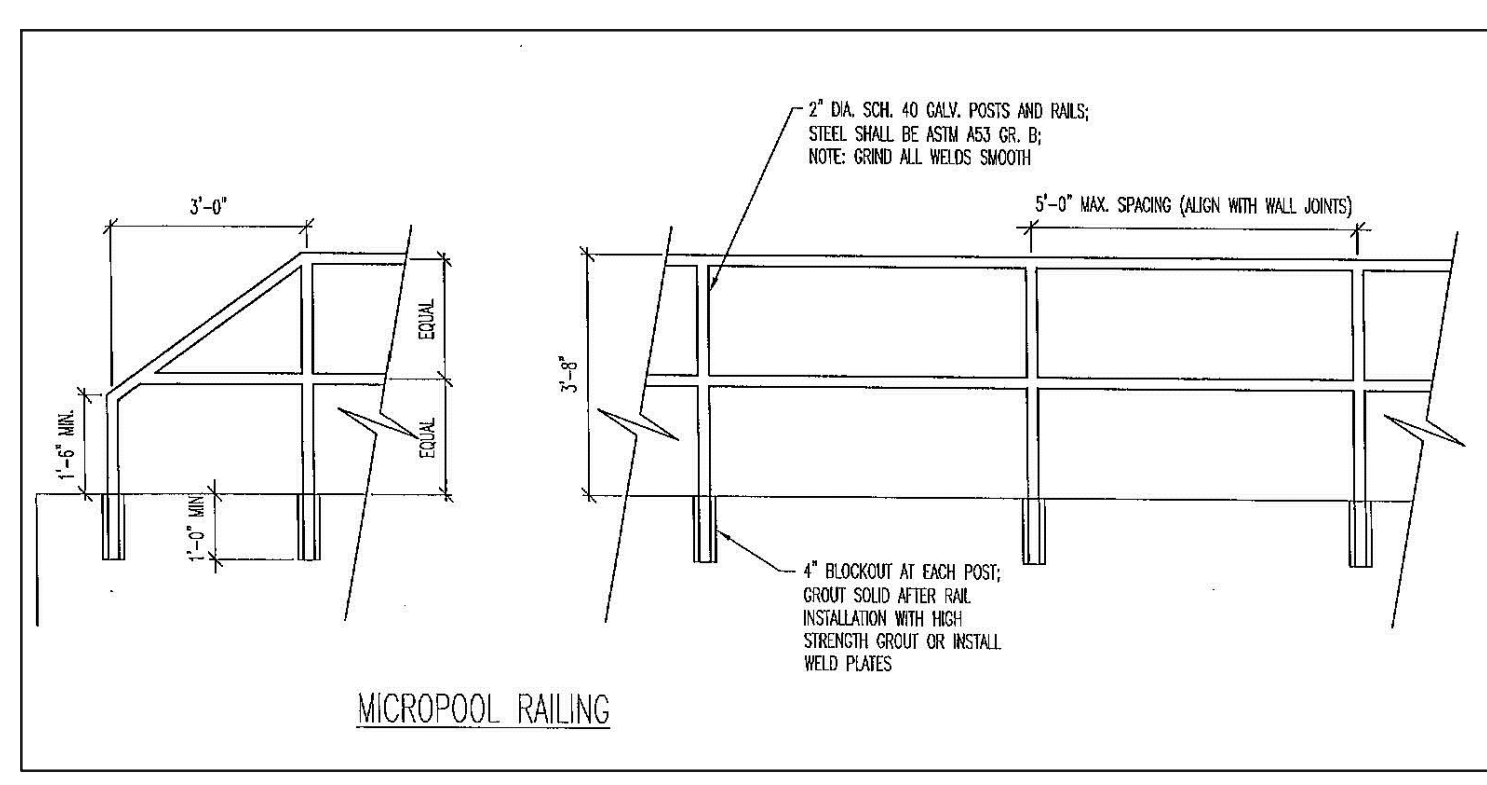
CONCRETE MICROPOOL
SCALE 1" = 2'

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 = 46 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.

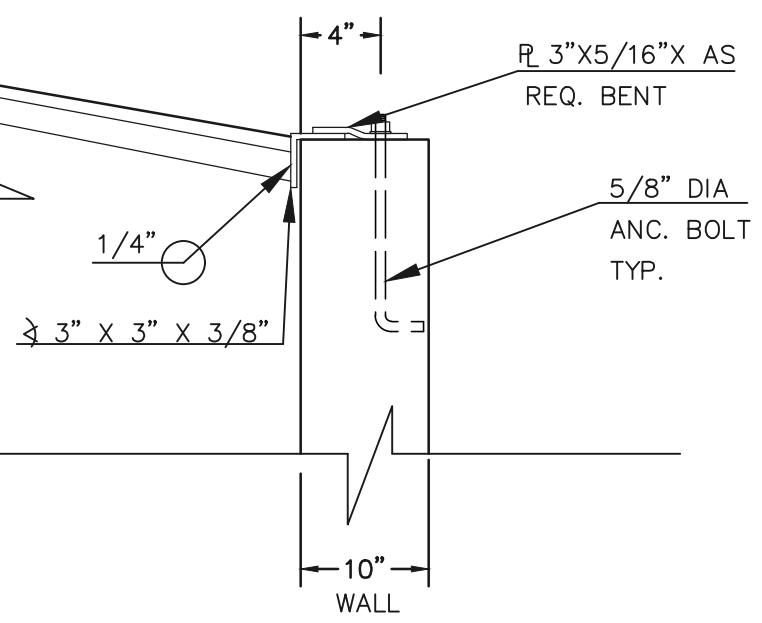
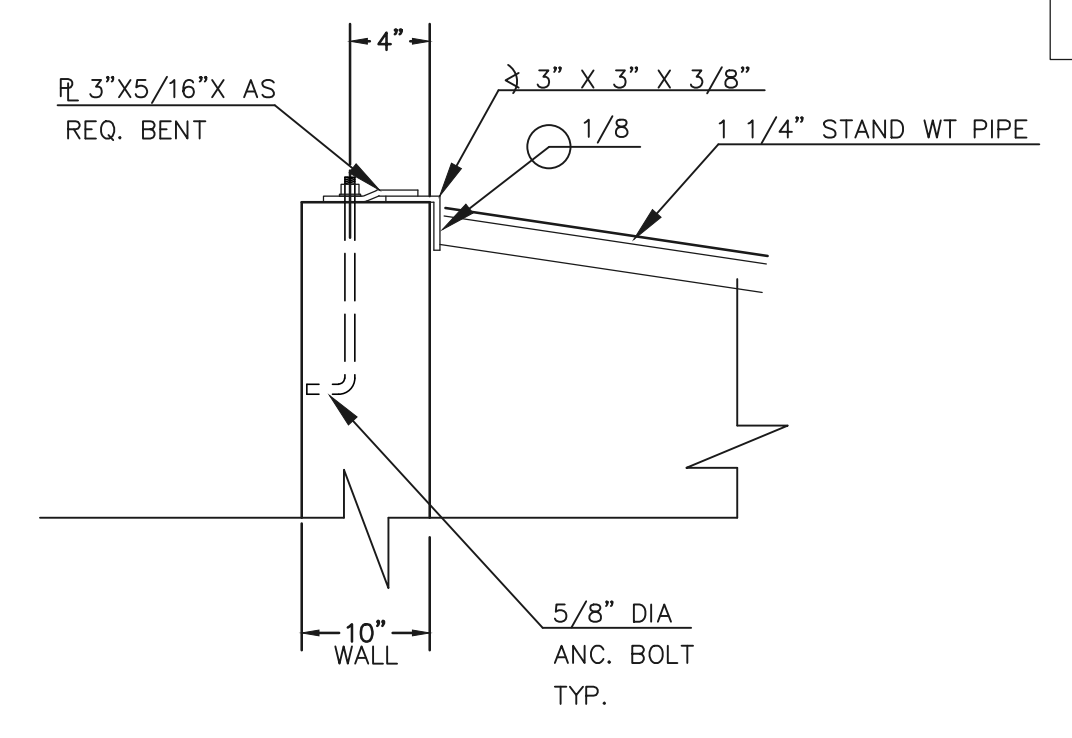


MICROPOOL RAILING

NOTES:

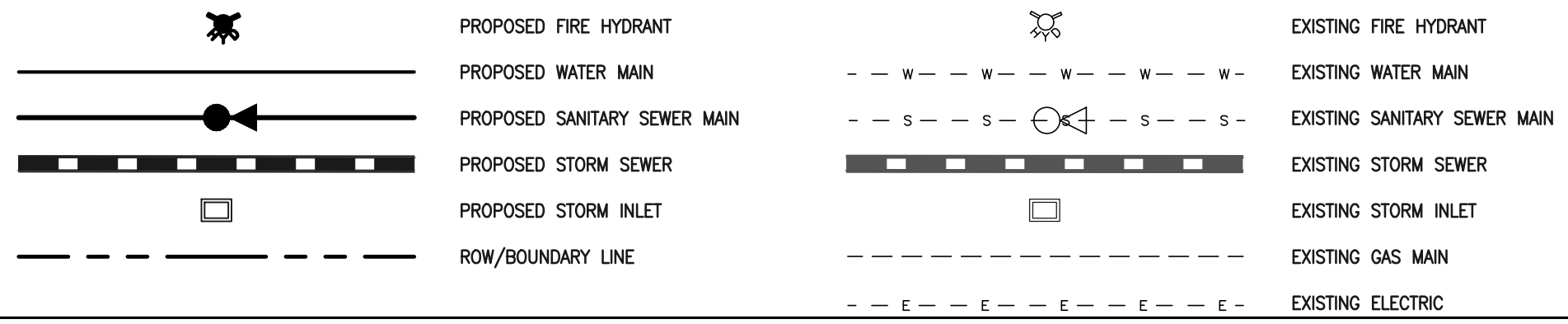
- WELD PLATES MAY BE SUBSTITUTED FOR PIPE EMBEDMENT.
- DESIGN CRITERIA SHALL BE IN ACCORDANCE WITH AASHTO STANDARDS.
- HANDRAIL DESIGN SHALL BE COMPATIBLE WITH THE DESIGN OF THE WINGWALLS AND HEADWALLS.
- RAILING POSTS SHALL BE SET TO NORMAL TO GRADE. RAILS SHALL RUN PARALLEL TO THE SLOPES OF TOPS OF 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/GRATE DETAIL
N.T.S.

LEGEND



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

1619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719)785-0790
(719)785-0799(fax)

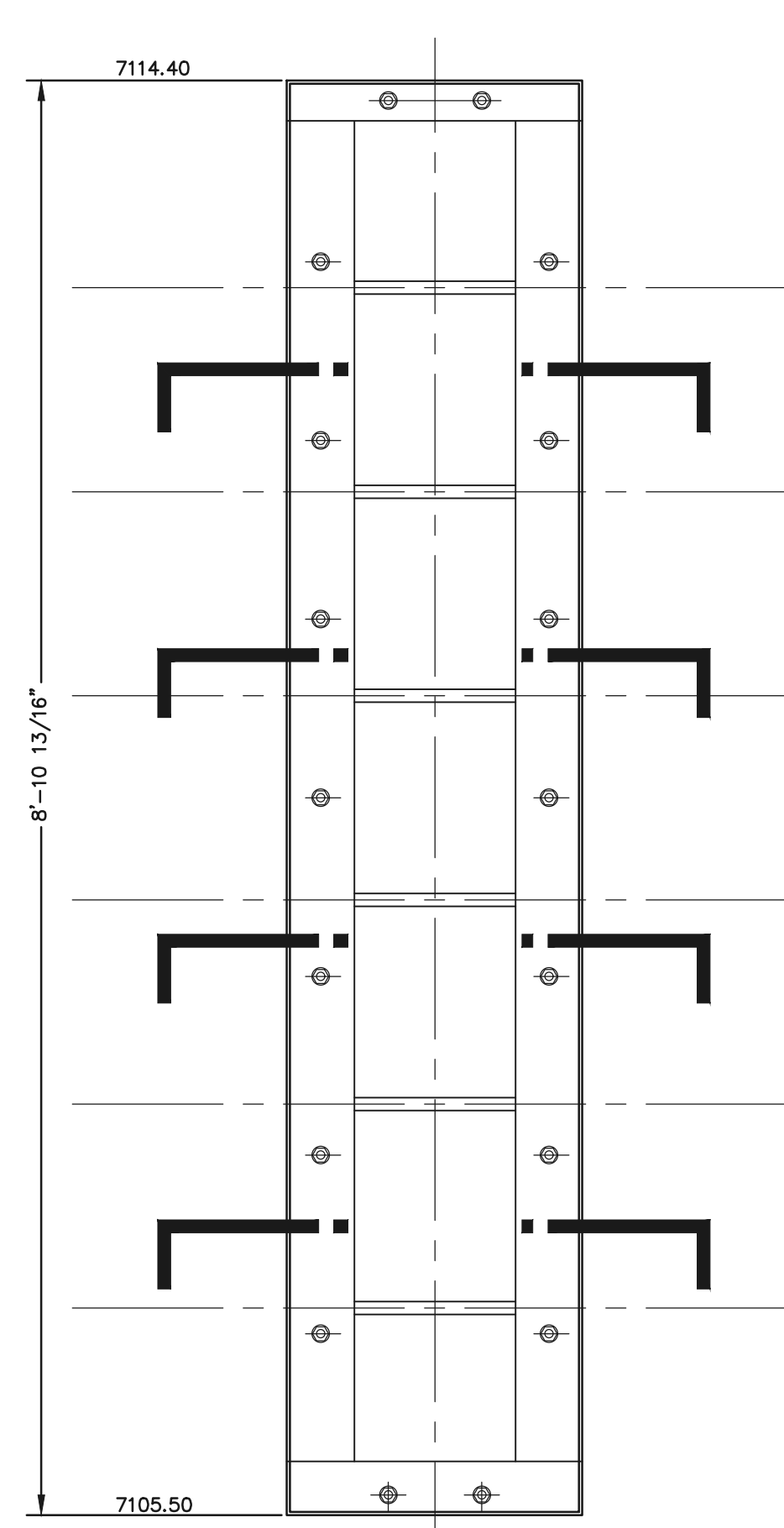
PCD FILE # SF-21-49

FOREST LAKES FILING NO. 7
CONSTRUCTION PLANS

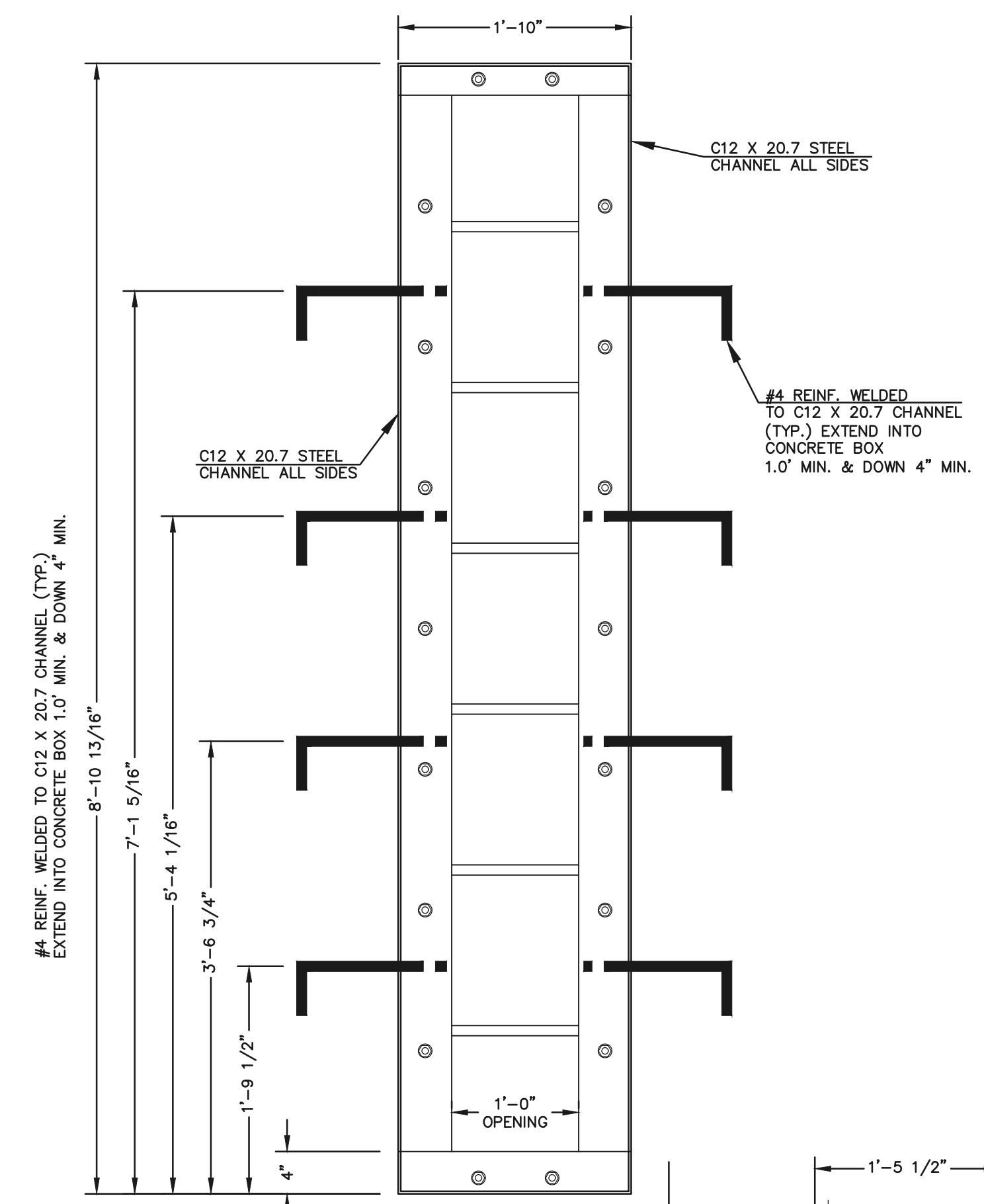
POND OUTLET BOX AND MICROPOOL DETAILS

DESIGNED BY	MAL	SCALE	DATE
			11/23/21
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CHECKED BY	(V) 1" = N/A	JOB NO.	1175.70

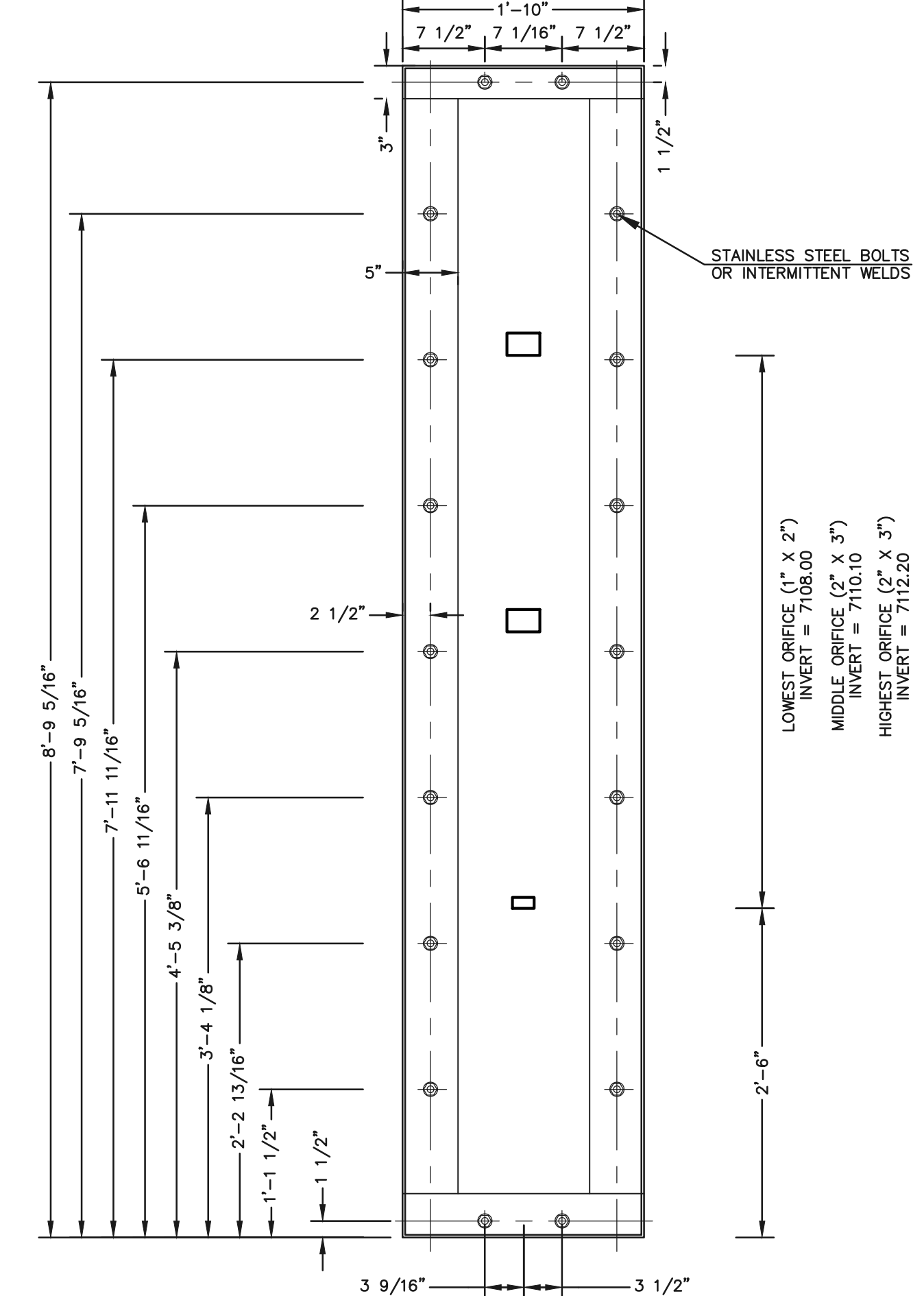
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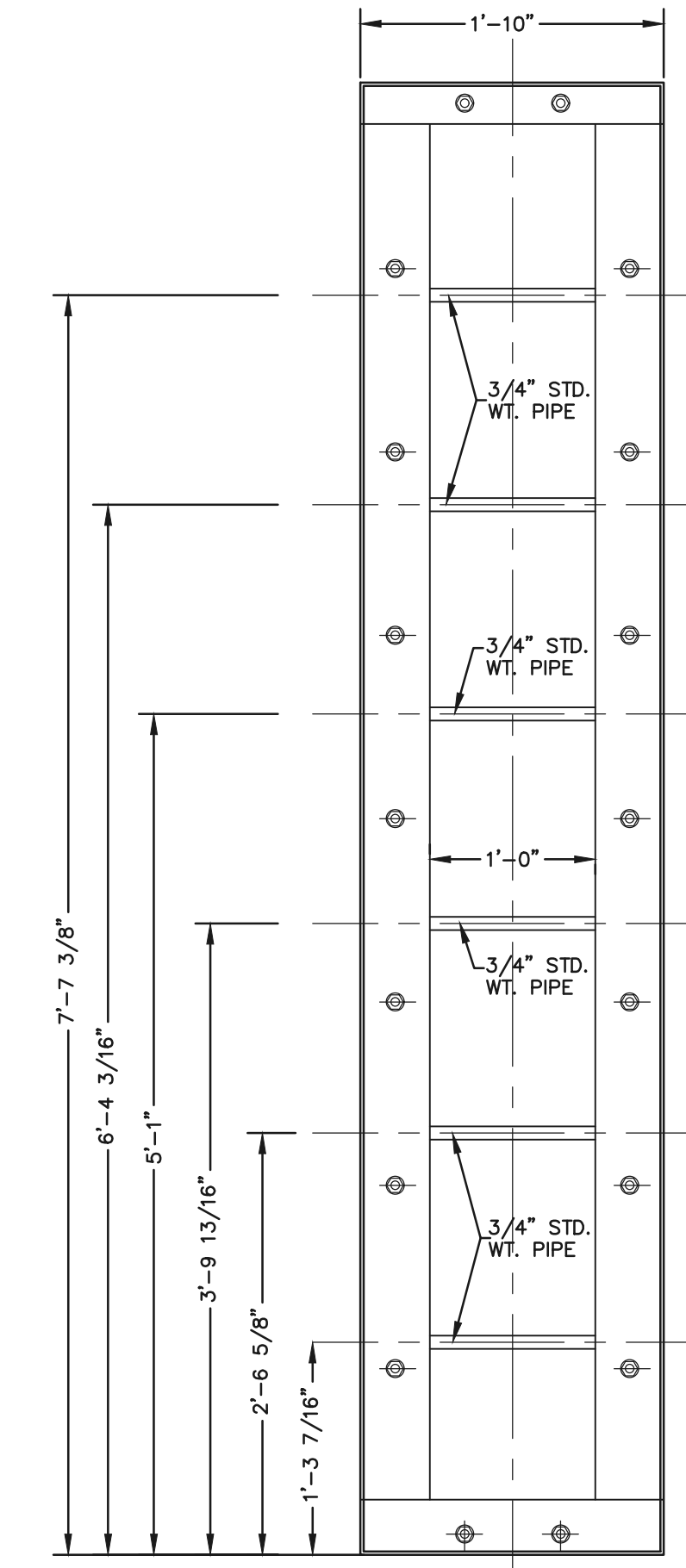
OUTLET CONTROL PLATE AND FRAME
SCALE: 1"=1'



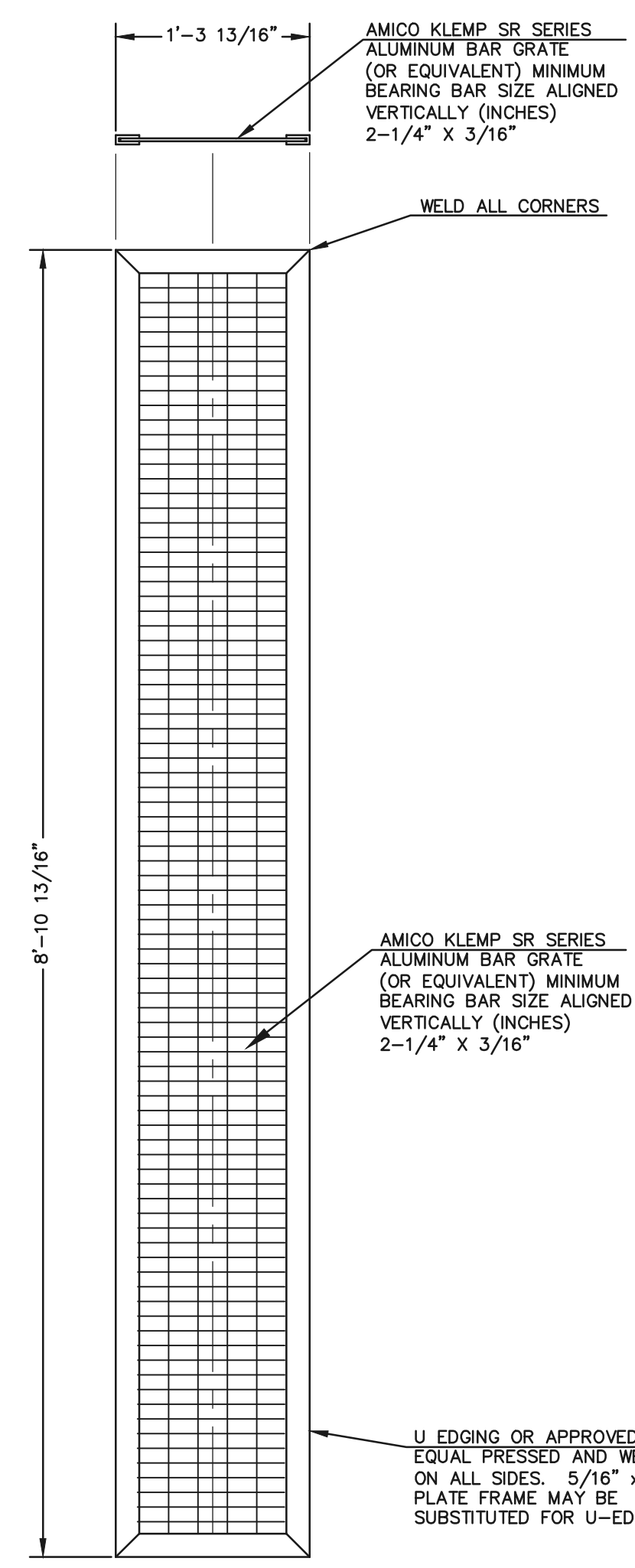
CHANNEL FRAME WITH WALL ANCHORS
SCALE: 1"=1'



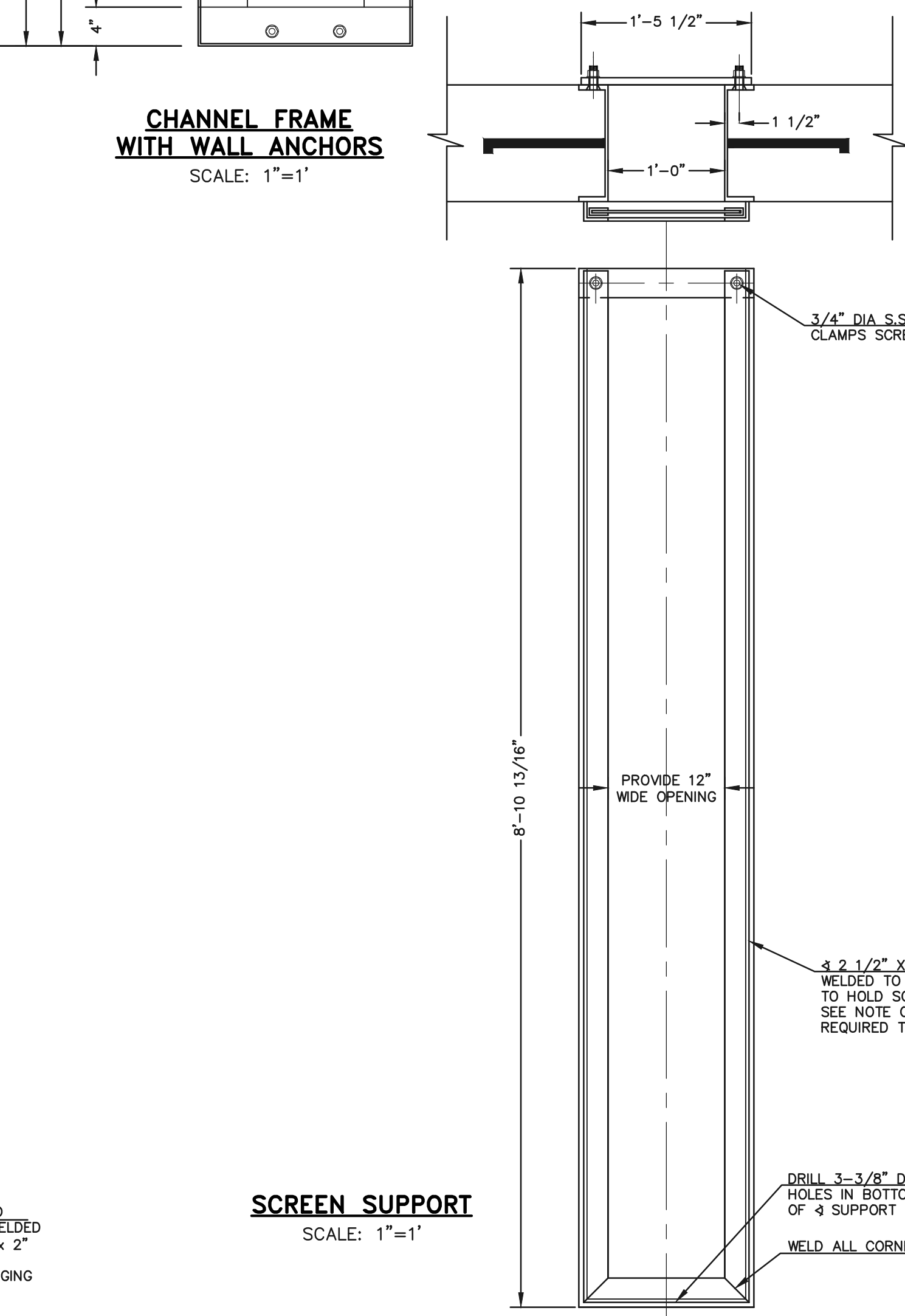
1/4" THICK ORIFICE PLATE
SCALE: 1"=1'



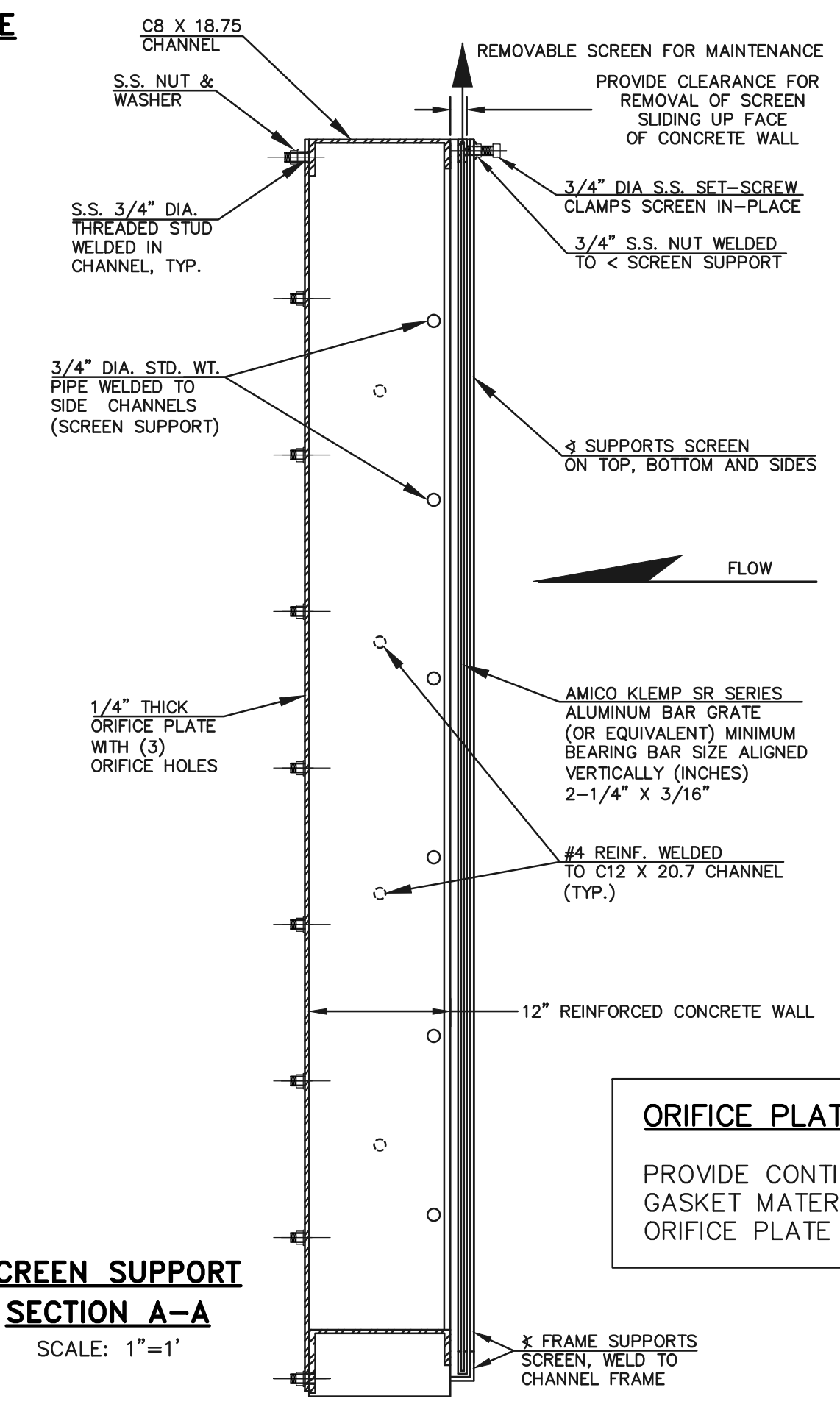
CHANNEL FRAME
SCALE: 1"=1'



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

DESIGNED BY	MAL	SCALE	DATE	11/23/21
DRAWN BY	MES	(H) 1"= 1'	SHEET	27 OF 31
CHECKED BY	(V) 1"= N/A	JOB NO.	1175.70	

FOREST LAKES FILING NO. 7
CONSTRUCTION PLANS

CLASSIC CONSULTING

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

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

PCD FILE # SF-21-49

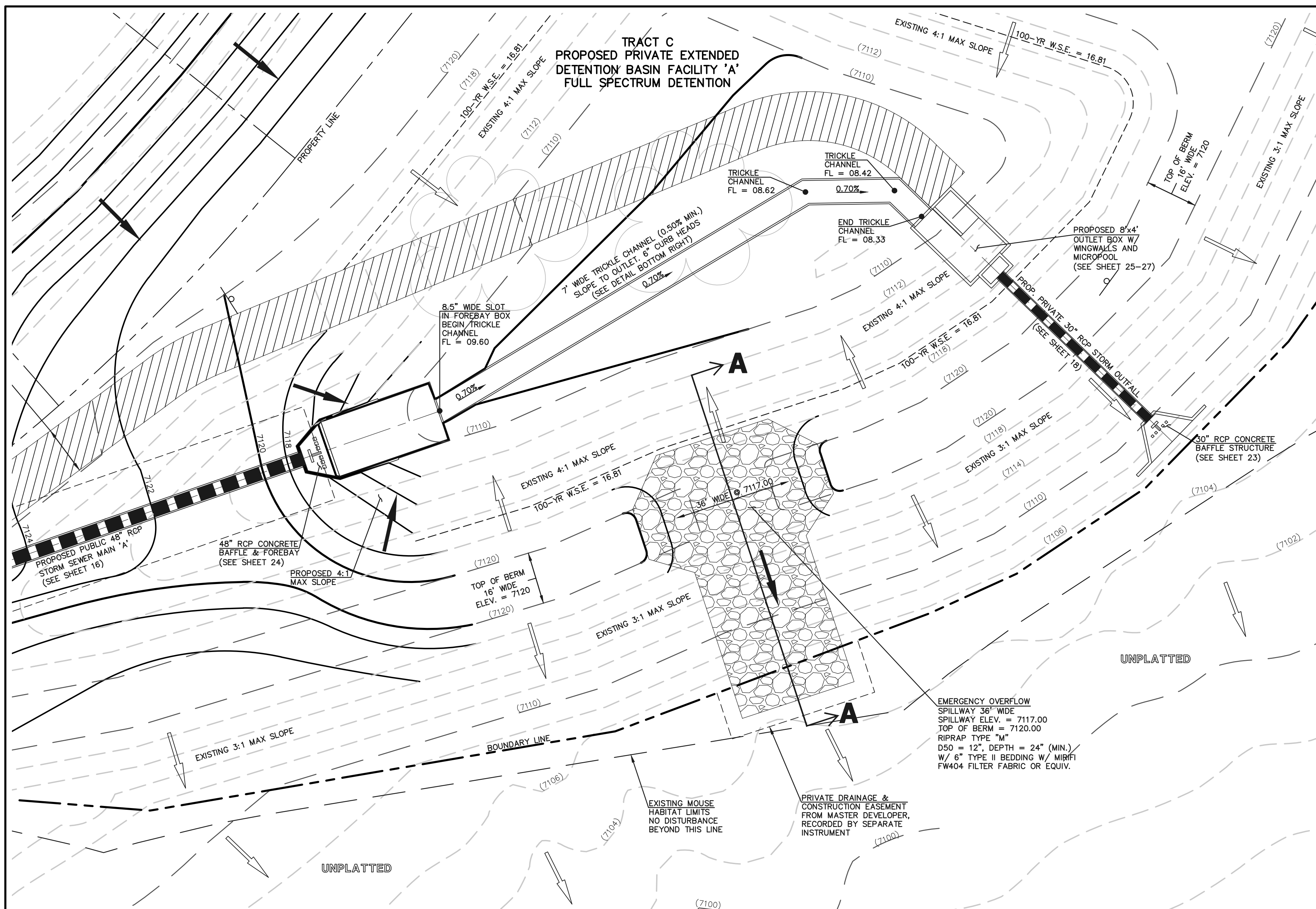
OUTLET BOX DETAILS

DESIGNED BY MAL SCALE DATE 11/23/21

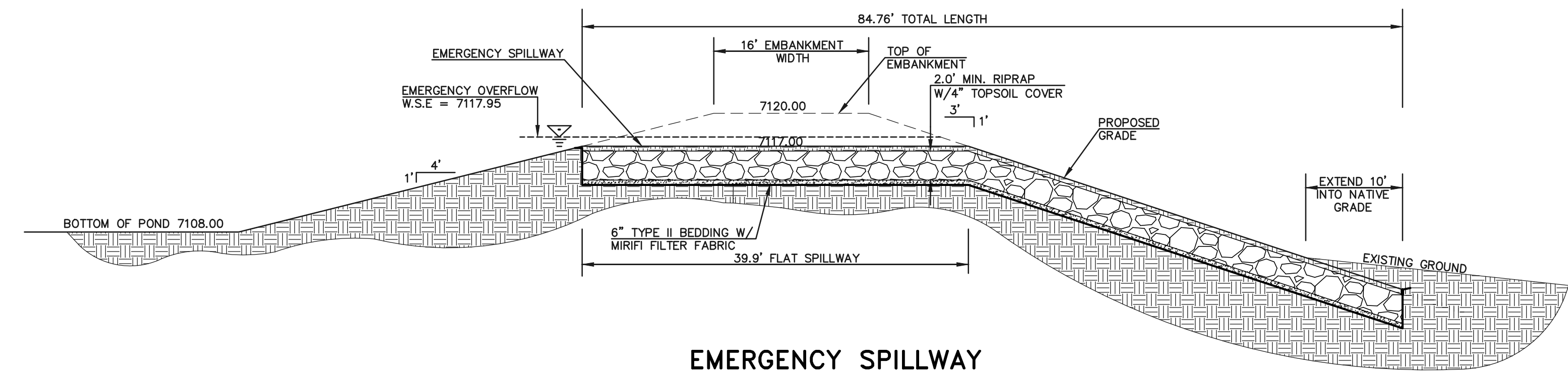
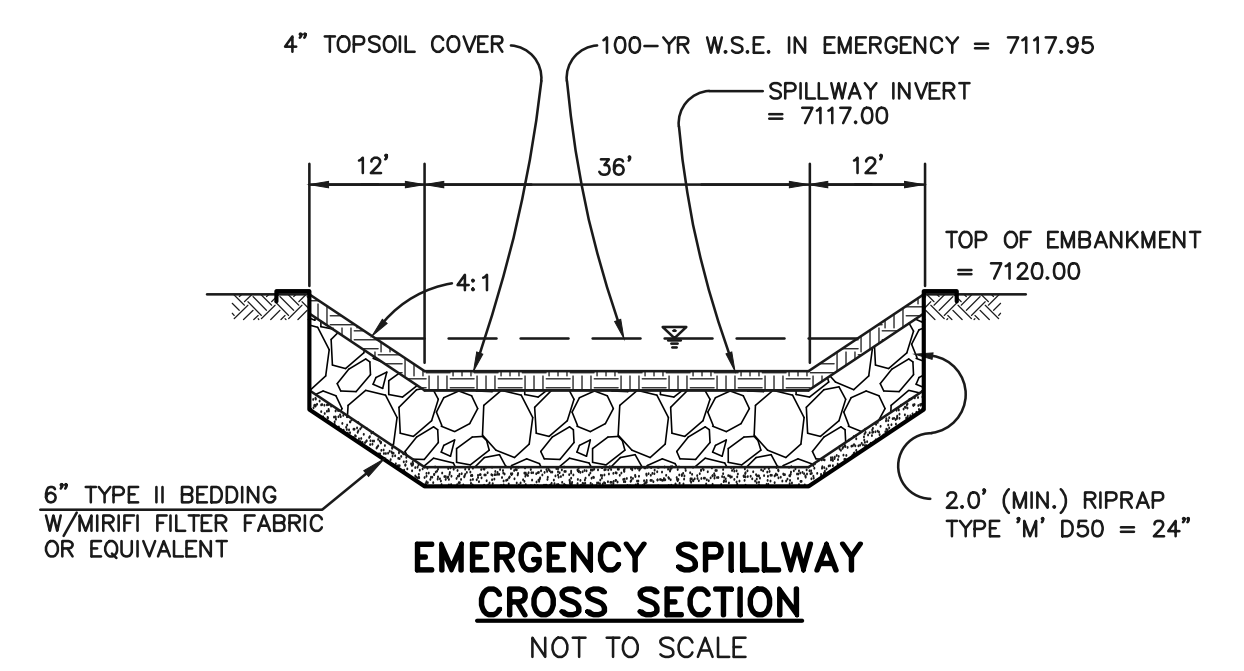
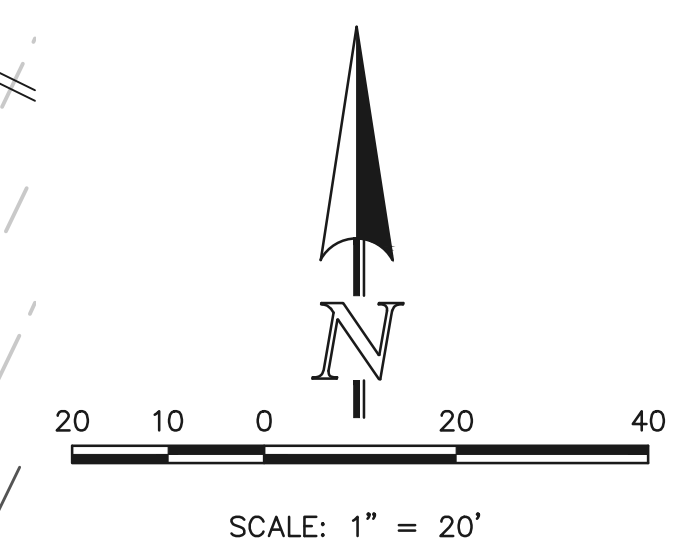
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CHECKED BY (V) 1"= N/A JOB NO. 1175.70

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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'

PCD FILE # SF-21-49

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



FOREST LAKES FILING NO. 7 CONSTRUCTION PLANS			
POND SPILLWAY DETAILS			
DESIGNED BY	MAL	SCALE	DATE 11/23/21
DRAWN BY	MES	(H) 1"=VARIES	SHEET 28 OF 31
CHECKED BY	(V) 1"= N/A	JOB NO.	1175.70

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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 602.02A.
- CORDED 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.

CONCRETE QUANTITIES FOR ONE CONCRETE HEADWALL (CUBIC YARDS)

PIPE	PIPE DIAMETER (AND EQUIVALENT DIAMETER) (IN.)					
	18	24	30	36	42	48
TYPE	SINGLE	DOUBLE	SINGLE	DOUBLE	SINGLE	DOUBLE
	1.0	1.3	1.5	2.0	2.0	2.7
CIRCULAR	ROD	1.1	1.4	1.6	2.1	2.2
	FLEXIBLE	1.3	1.6	1.8	2.1	2.2
ELLIPTICAL	ROD	0.9	1.2	1.3	1.6	1.7
	METAL	0.9	1.3	1.4	1.9	1.8
ARCH	ROD	0.9	1.2	1.3	1.6	1.7
	METAL	0.9	1.3	1.4	1.9	1.8

PIPE OUTLET PAVING (CUBIC YARDS)

NOTE: VOLUME OCCUPIED BY PIPE HAS BEEN DEDUCTED.

THICKNESS	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"	RSPPAP	2.0	3.5	5.4	7.8	10.7

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
 5201 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

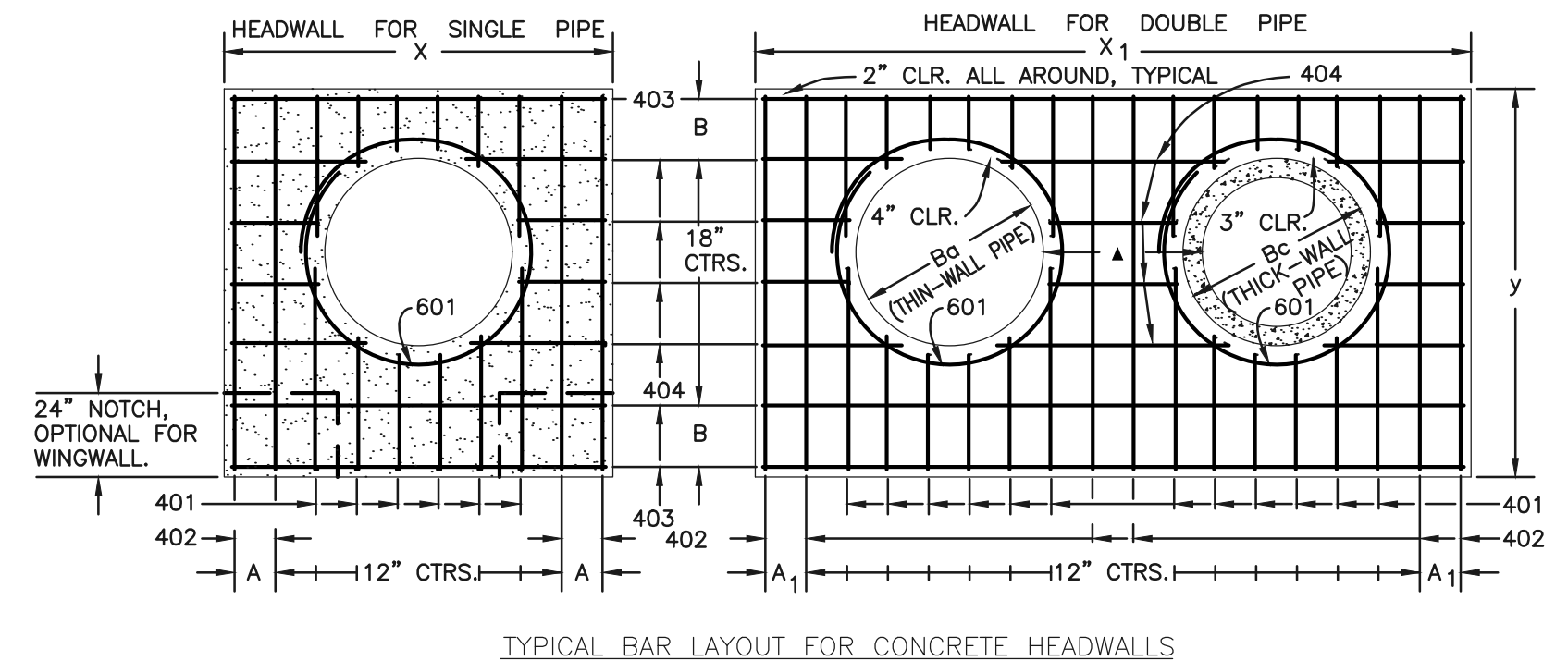
Issue Date: Project Development Branch July 4, 2012
 Sheet No. 1 of 1

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 "H", "B", "R", "T", "L", "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"



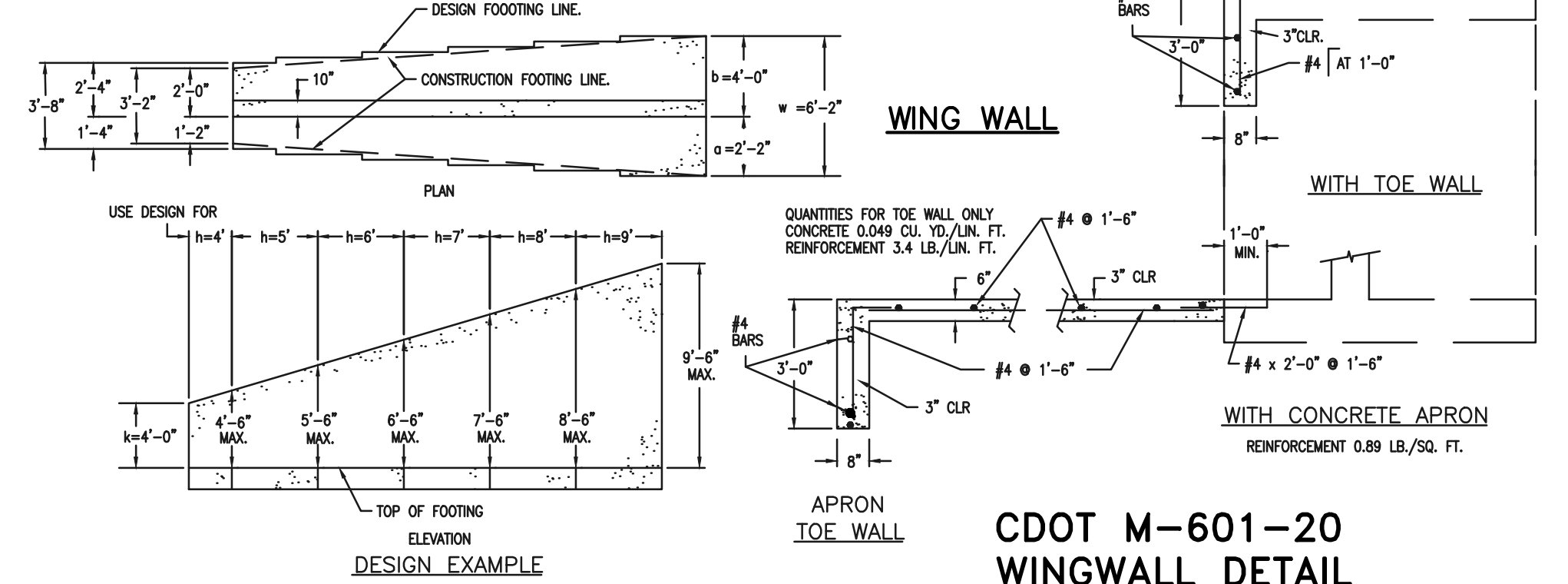
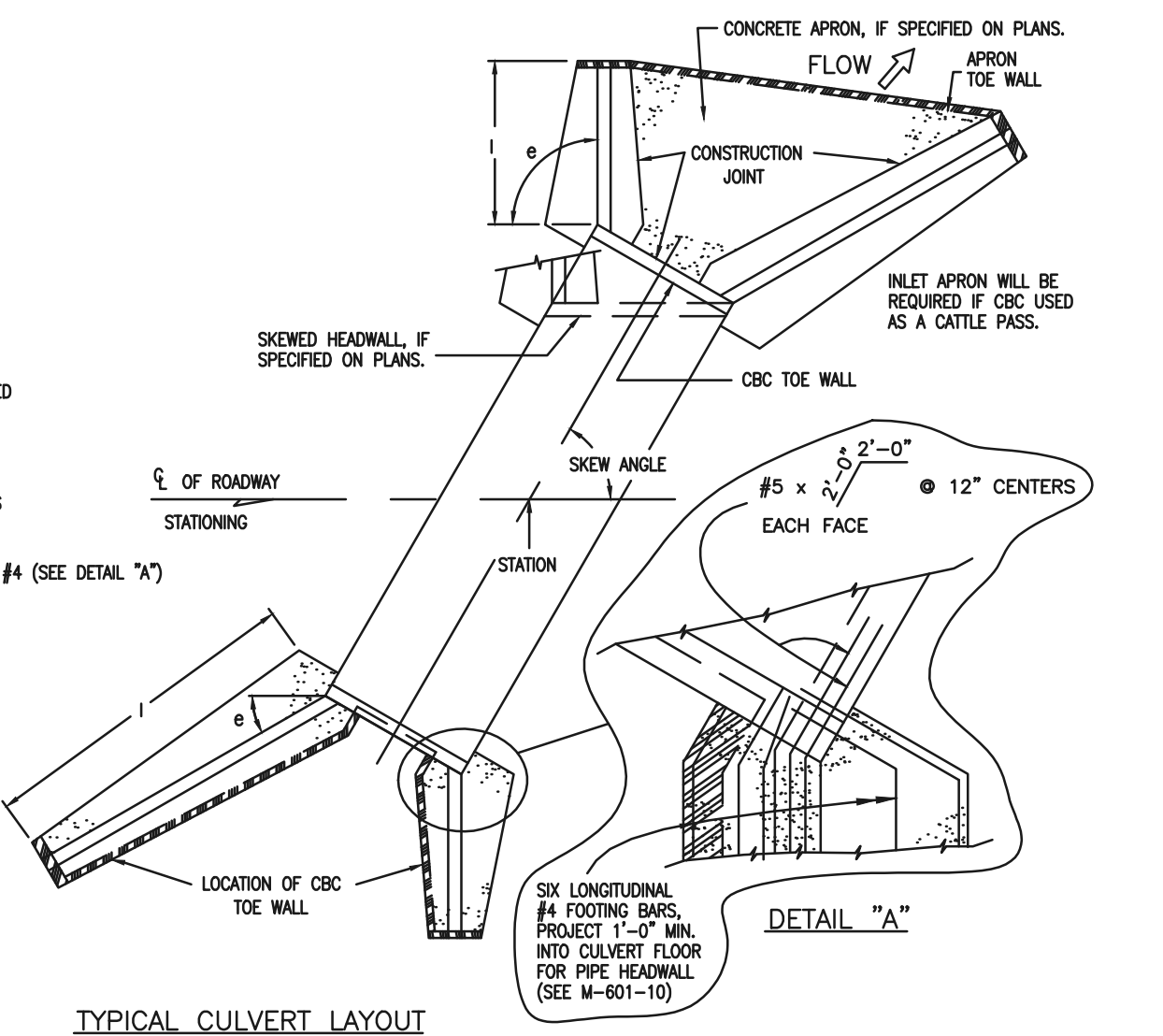
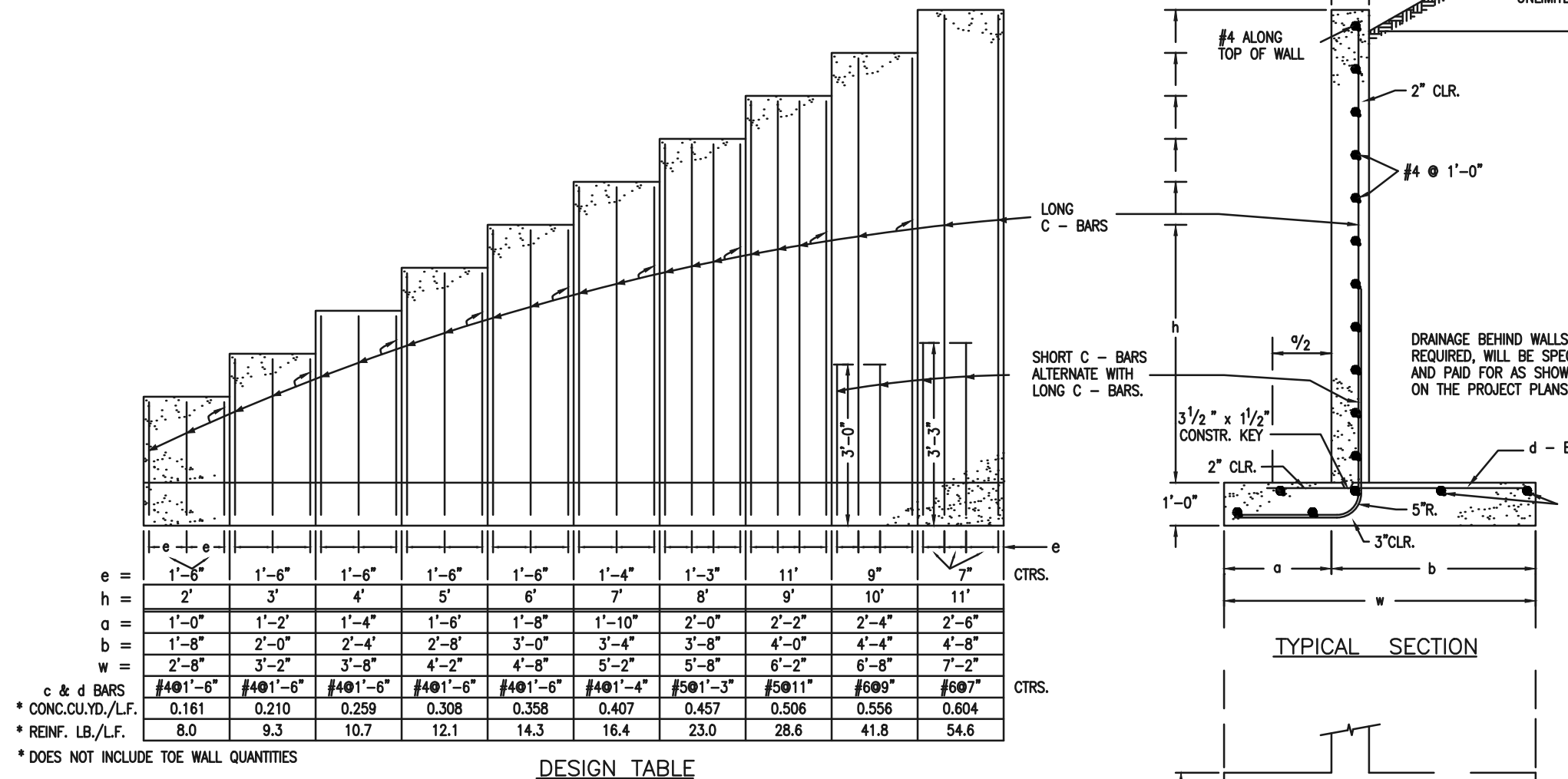
HEADWALL FOR THICK-WALL ROUND PIPE

DIMENSIONS

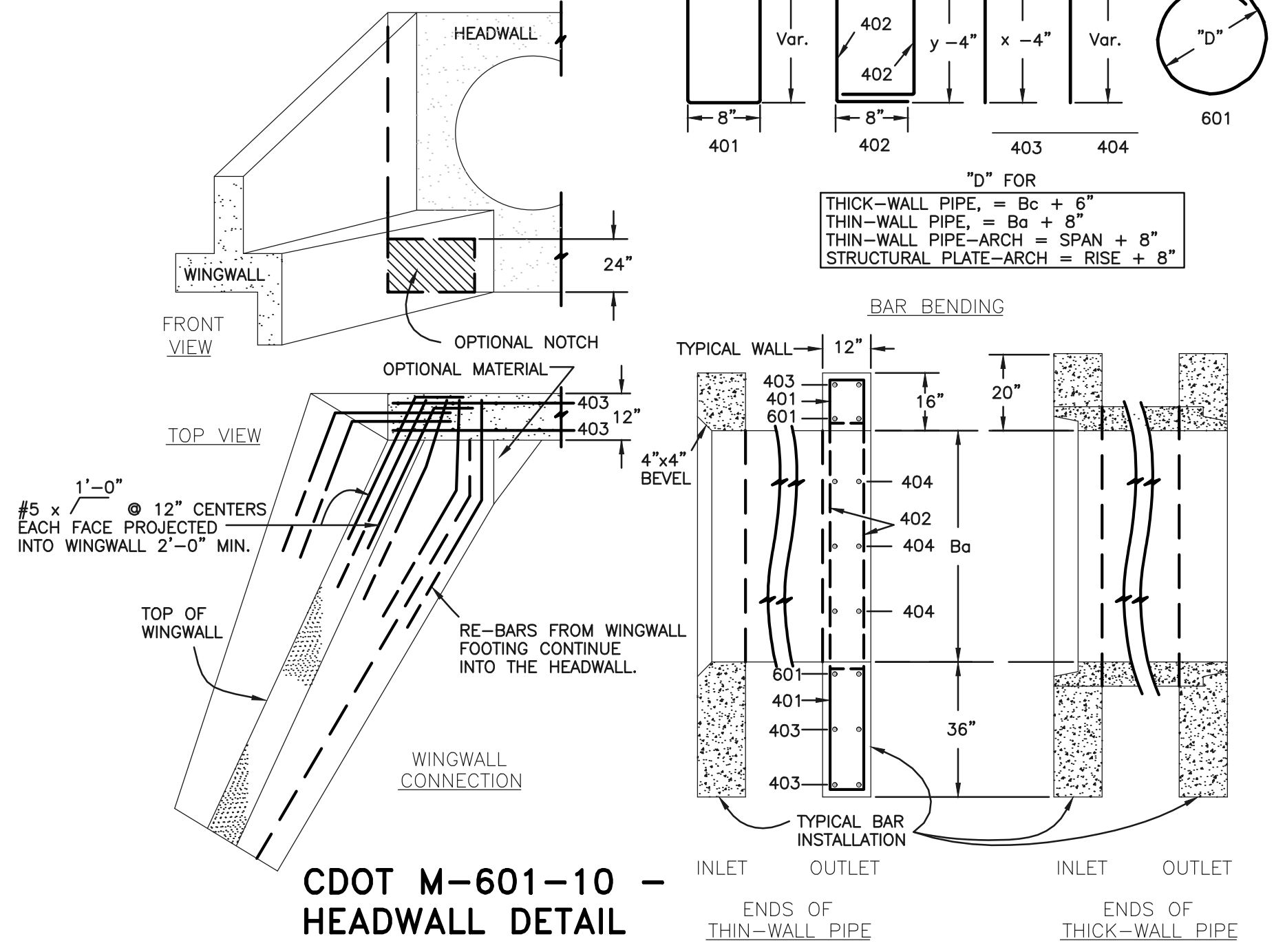
Ba	Bc	X	A	X1	A1	y	B	X2
in.	in.	ft.-in.	in.	ft.-in.	in.	ft.-in.	in.	in.

QUANTITIES

CONCRETE	STEEL							
SGL DBL SGL DBL	SGL DBL SGL DBL							
cu.yd cu.yd	lbs. lbs.							
54	65	8-9	8 1/2	15-6	7	9-2	17	20
60	72	9-6	7	17-0	10	9-8	11	21
66	79	10-3	11 1/2	18-6	7	10-2	14	22
72	86	11-0	10	20-0	10	10-8	17	23
78	93	11-9	8 1/2	21-3	11	11-2	11	24
84	100	12-6	7	22-6	7	11-8	14	25
90	107	13-3	11 1/2	23-9	8 1/2	12-2	17	26
96	114	14-0	10	25-0	10	12-8	11	27
102	121	14-9	8 1/2	26-3	11 1/2	13-2	14	28
108	128	15-6	7	27-6	7	13-8	17	29



- 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.



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

DATE

CLASSIC CONSULTING

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

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

FOREST LAKES FILING NO. 7 CONSTRUCTION PLANS

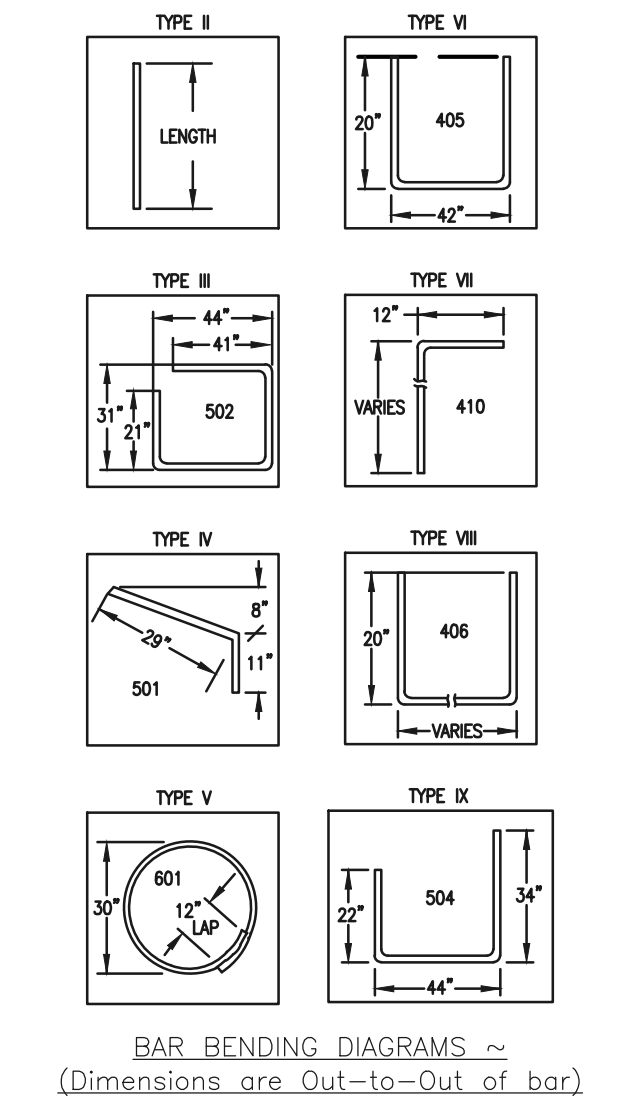
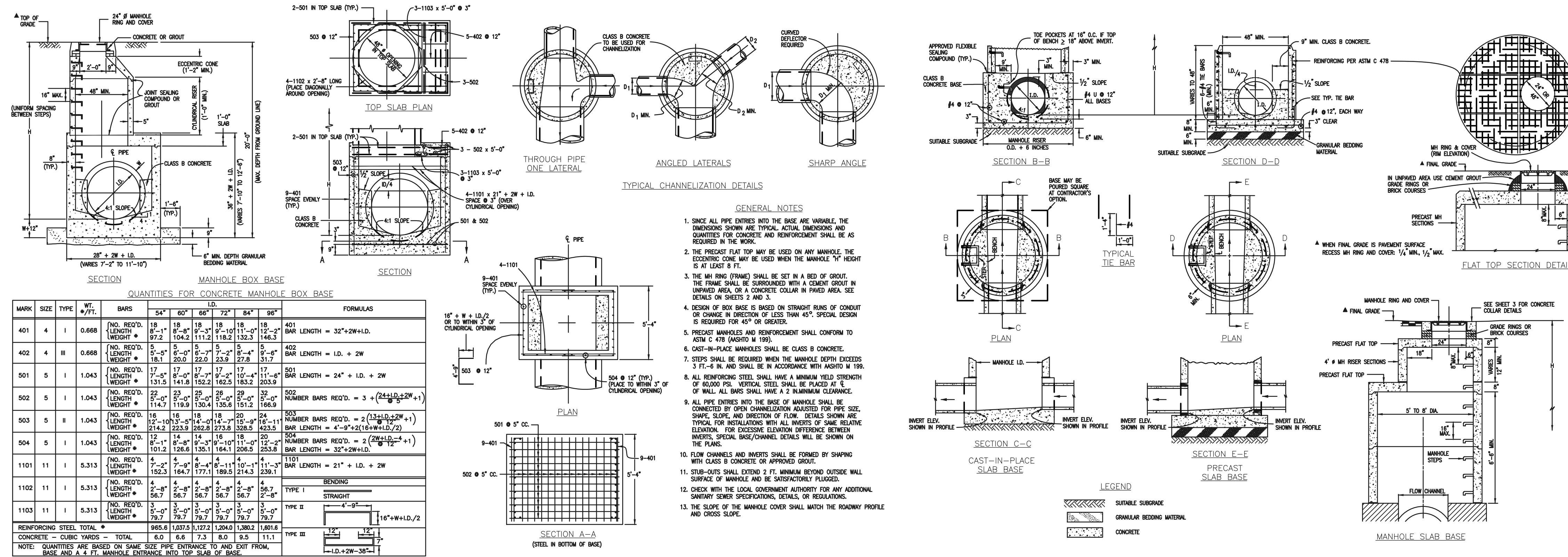
DETAILS SHEET

DESIGNED BY	SCALE	DATE
MES	(H) 1" = N/A	11/23/21
DRAWN BY	SCALE	DATE
MES	(H) 1" = N/A	11/23/21
CHECKED BY	SCALE	DATE
MES	(V) 1" = N/A	11/23/21

SHEET 29 OF 31
 JOB NO. 1175.70

PCD FILE # SF-21-49

Include detail for Type II manhole



QUANTITIES FOR CONCRETE MANHOLE BOX BASE

MARK	SIZE	TYPE	WT. #/FT.	NO. REQ'D.	NO. REQ'D.	NO. REQ'D.	NO. REQ'D.	NO. REQ'D.	NO. REQ'D.	FORMULAS
				401	402	501	502	503	504	
401	4	I	0.668	18	18	18	18	18	18	401 BOX LENGTH = 32'+2W+1D.
402	4	III	0.668	18	18	18	18	18	18	402 BOX LENGTH = 1D. + 2W
501	5	I	1.043	17	17	17	17	17	17	501 BOX LENGTH = 24' + 1D. + 2W
502	5	I	1.043	17	17	17	17	17	17	502 NUMBER BARS REQ'D. = 3 + (24+1D+2W+1)
503	5	II	1.043	18	18	18	18	18	18	503 NUMBER BARS REQ'D. = 2 (32+1D+2W+1)
504	5	I	1.043	18	18	18	18	18	18	504 NUMBER BARS REQ'D. = 2 (24+1D+2W+1)
1101	11	I	5.313	4	4	4	4	4	4	1101 BOX LENGTH = 21' + 1D. + 2W
1102	11	I	5.313	4	4	4	4	4	4	1102 TYPE I STRAIGHT
1103	11	I	5.313	3	3	3	3	3	3	1103 TYPE II BENDING

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

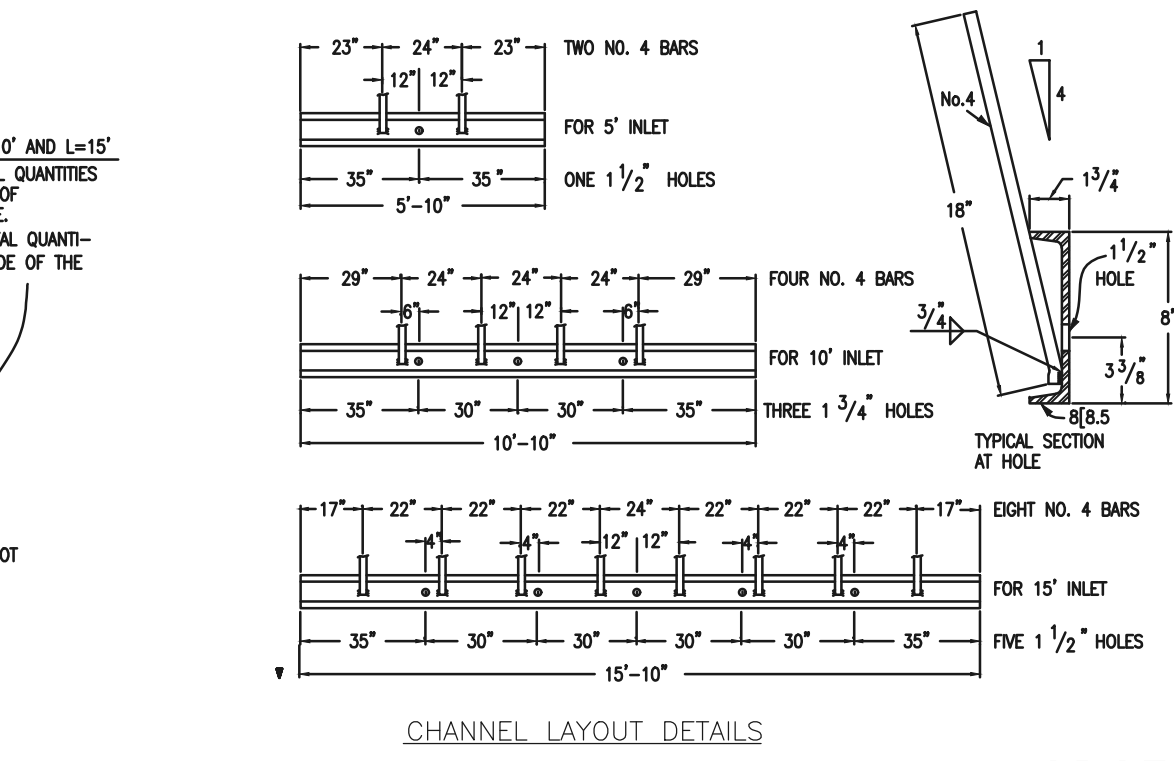
TABLE ONE ~ BAR LIST FOR CURB INLETS, TYPE "R"

MARK	DIA. IN.	O.C. SPACING	TYPE	ALL INLETS			INLETS, H ≤ 5'			INLETS, H > 5'		
				L=5'	10'	15'	L=10'	15'	20'	L=15'	20'	25'
401	1 1/2"	11"	II	15	21	28	11	11	11	11	11	
402	1 1/2"	11"	II	7	13	18	7	7	7	7	7	
403	9"	11"	II	4	6	8	4	4	4	4	4	
405	6"	11"	VI	11	11	11	11	11	11	11	11	
406	6"	11"	VIII	7	7	7	7	7	7	7	7	
407	6"	11"	II	5	5	5	5	5	5	5	5	
408	6"	11"	II	3	3	3	3	3	3	3	3	
409	8"	11"	II	6	6	6	6	6	6	6	6	
410	1 1/2"	11"	VII	3	3	3	3	3	3	3	3	
411	1 1/2"	11"	II	3	3	3	3	3	3	3	3	
412	1 1/2"	11"	II	3	3	3	3	3	3	3	3	
413	9"	11"	II	2	2	2	2	2	2	2	2	
501	5 1/2"	11"	IV	11	11	11	11	11	11	11	11	
502	5 1/2"	11"	III	5	5	5	5	5	5	5	5	
503	5 1/2"	11"	II	5	5	5	5	5	5	5	5	
504	5 1/2"	11"	IX	5	5	5	5	5	5	5	5	
601	2 1/2"	11"	V	2	2	2	2	2	2	2	2	
601.5	1 1/2"	11"	I	1	1	1	1	1	1	1	1	

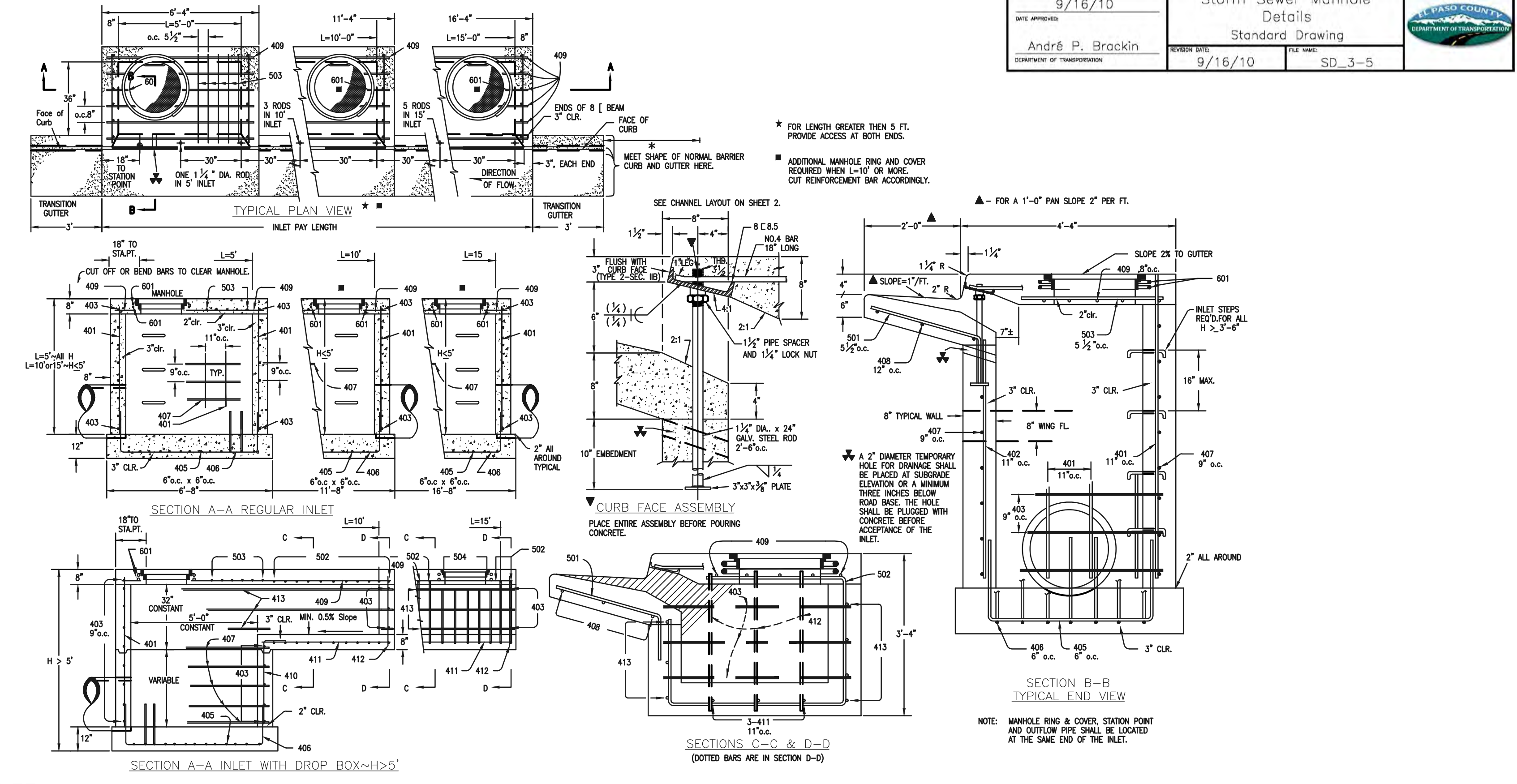
TABLE TWO ~ BARS AND QUANTITIES VARIABLE WITH "H"

H'	L=5'		L=10'		L=15'	
	NO. REQ'D.	WT. (LB.)	NO. REQ'D.	WT. (LB.)	NO. REQ'D.	WT. (LB.)
3'-0"	2	3.2	2	3.2	2	3.2
3'-6"	2	3.4	2	3.4	2	3.4
4'-0"	2	3.7	2	3.7	2	3.7
4'-6"	2	3.9	2	3.9	2	3.9
5'-0"	2	4.1	2	4.1	2	4.1
5'-6"	2	4.4	2	4.4	2	4.4
6'-0"	2	4.8	2	4.8	2	4.8
6'-6"	2	5.2	2	5.2	2	5.2
7'-0"	2	5.6	2	5.6	2	5.6
7'-6"	2	6.0	2	6.0	2	6.0
8'-0"	2	6.4	2	6.4	2	6.4
8'-6"	2	6.8	2	6.8	2	6.8
9'-0"	2	7.2	2	7.2	2	7.2
9'-6"	2	7.6	2	7.6	2	7.6
10'-0"	2	8.0	2	8.0	2	8.0
10'-6"	2	8.4	2	8.4	2	8.4
11'-0"	2	8.8	2	8.8	2	8.8

- GENERAL NOTES
- ALL CONCRETE SHALL BE CLASS B.
 - CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES AND SHALL BE 8 IN. THICK.
 - INLET STEPS SHALL BE IN ACCORDANCE WITH ASHTO M 199.
 - CURB FACE ASSEMBLY SHALL BE GALVANIZED AFTER WELDING.
 - EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 1/4 IN. CURB AND GUTTER CORNERS SHALL BE FINISHED TO MATCH THE EXISTING CURB AND GUTTER BEHIND THE TRANSITION GUTTER.
 - REINFORCING BARS SHALL BE DEFORMED AND SHALL HAVE A 2 IN. MINIMUM CLEARANCE. ALL REINFORCING BARS SHALL BE EPOXY COATED.
 - DIMENSIONS AND WEIGHTS OF TYPICAL MANHOLE RING AND COVER ARE NOMINAL.
 - MATERIAL FOR MANHOLE RINGS AND COVERS SHALL BE GRAY OR DUCTILE CAST IRON CONFORMING TO 712.06.
 - SINCE PIPE ENTRIES INTO THE INLET ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL ACTUAL DIMENSIONS AND QUANTITIES FOR CONCRETE AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK. QUANTITIES INCLUDE VOLUMES OCCUPIED BY PIPES.
 - STRUCTURAL STEEL SHALL BE GALVANIZED AND SHALL CONFORM TO THE REQUIREMENTS OF 712.06.



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



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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

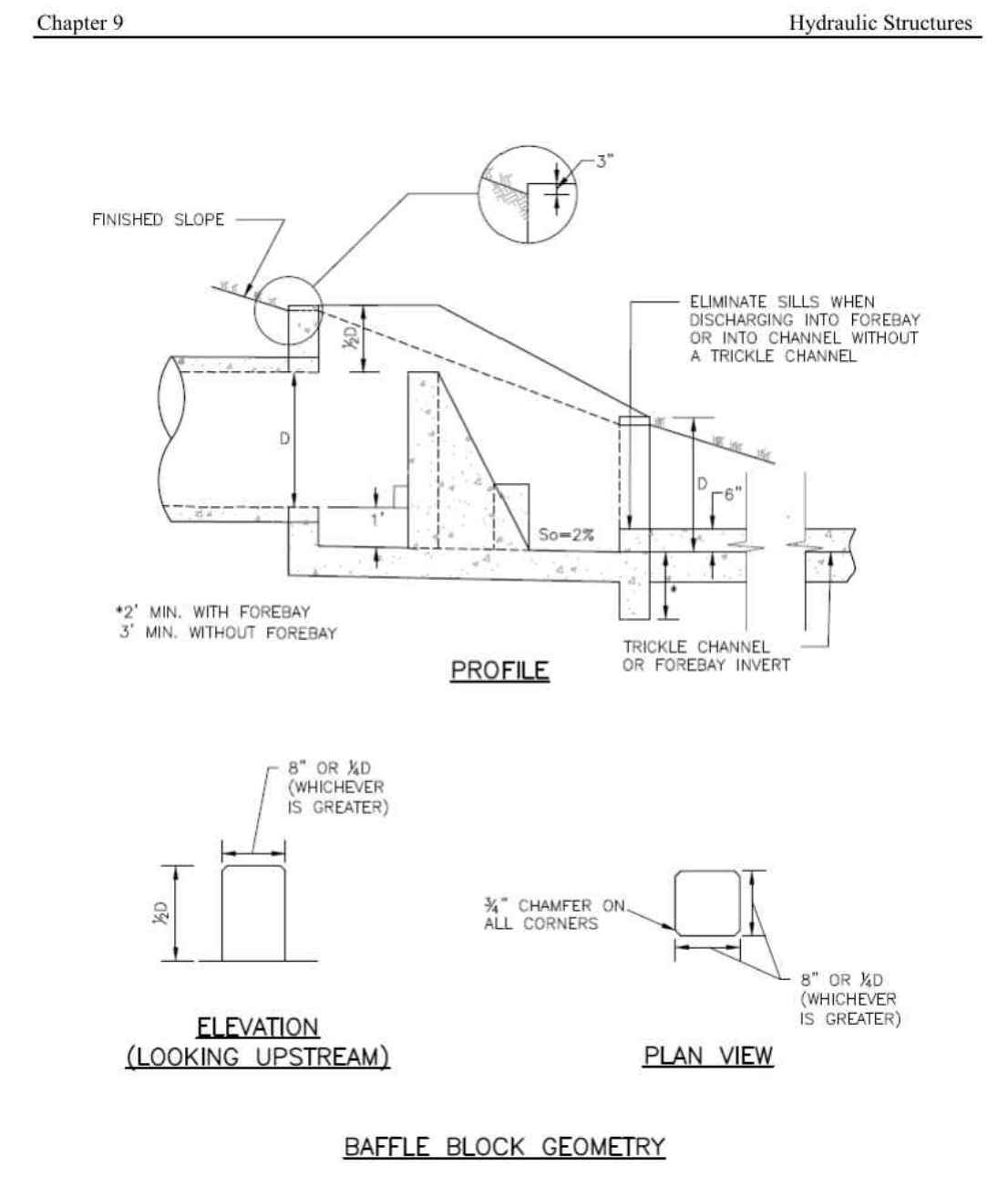
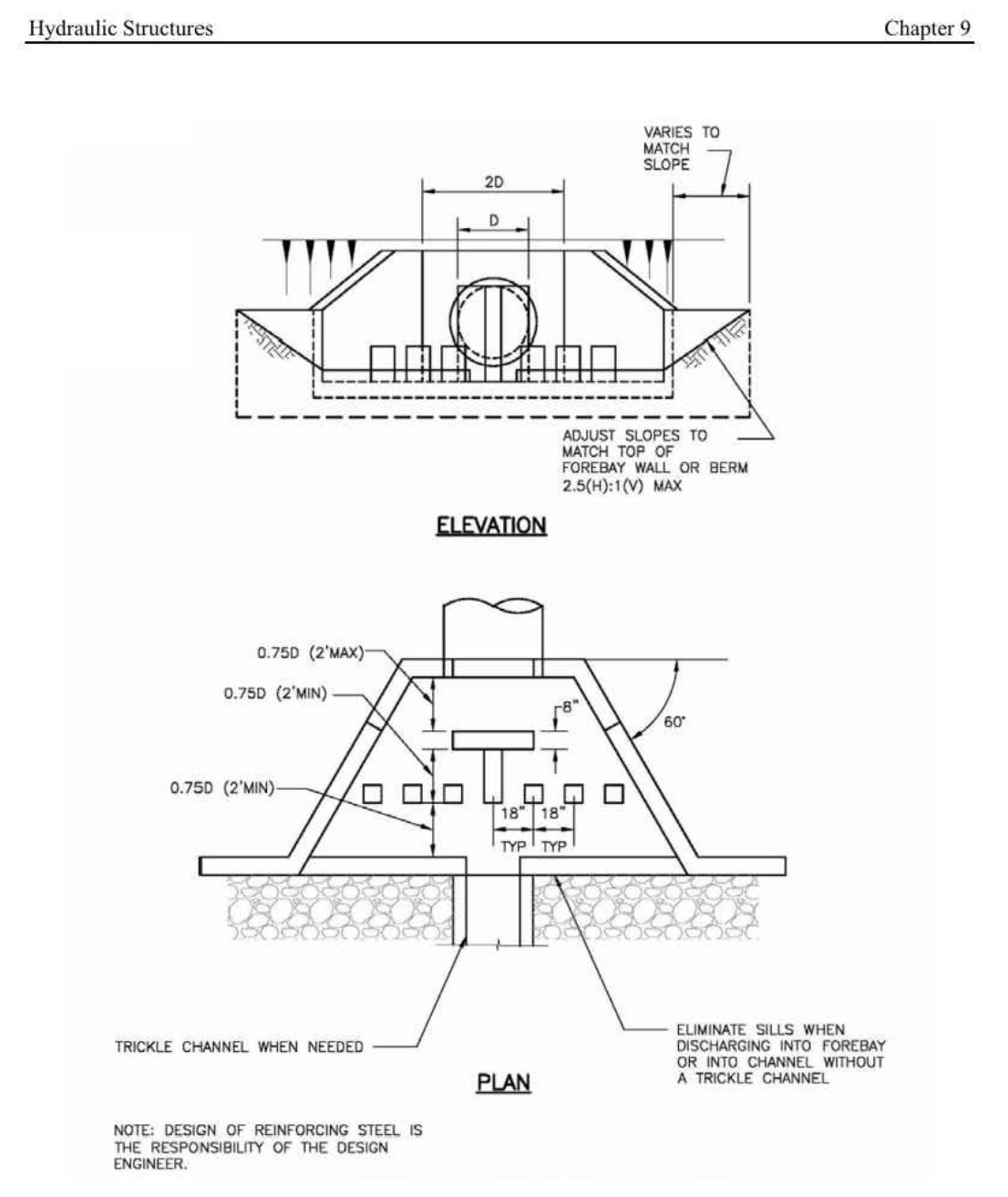
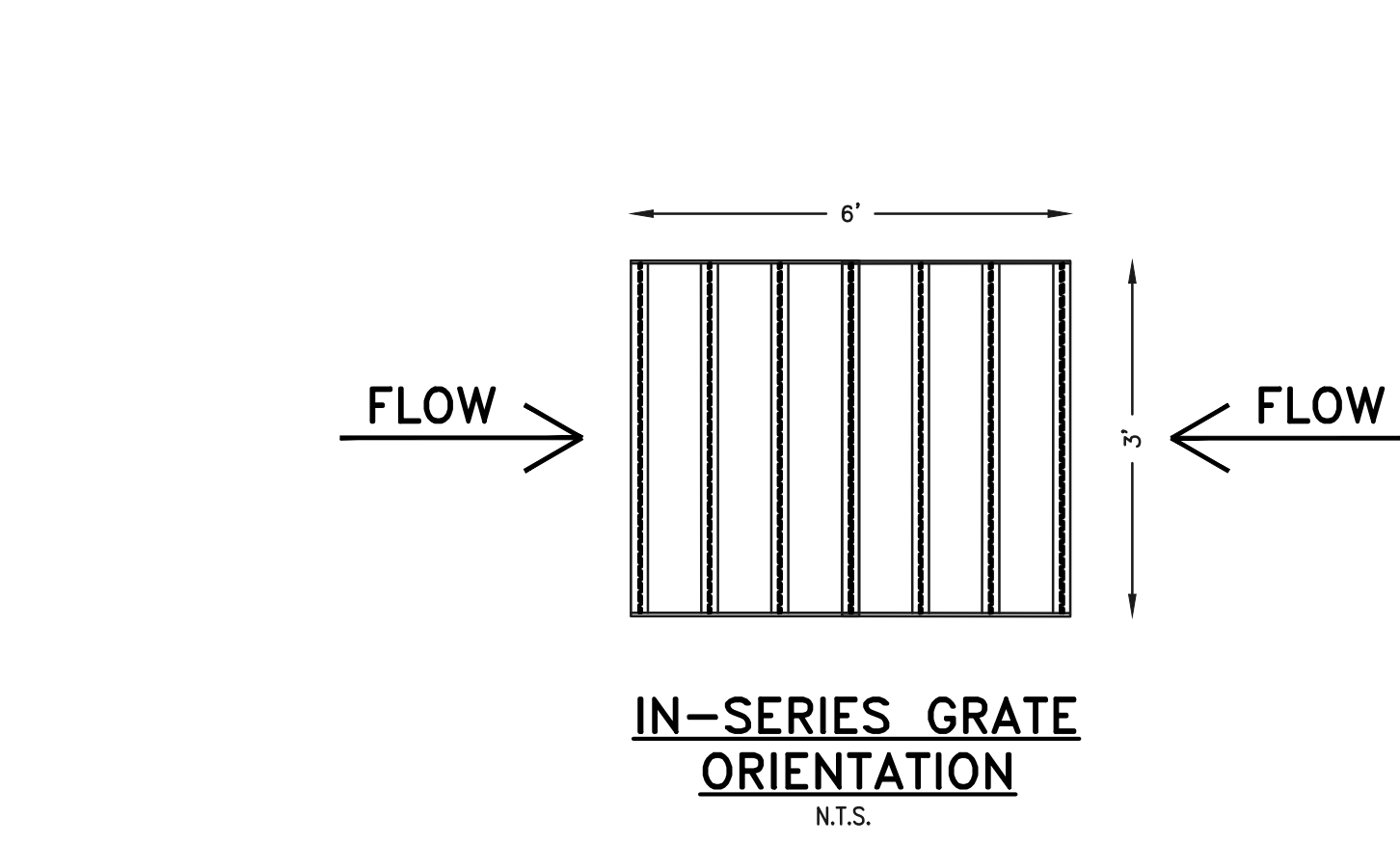
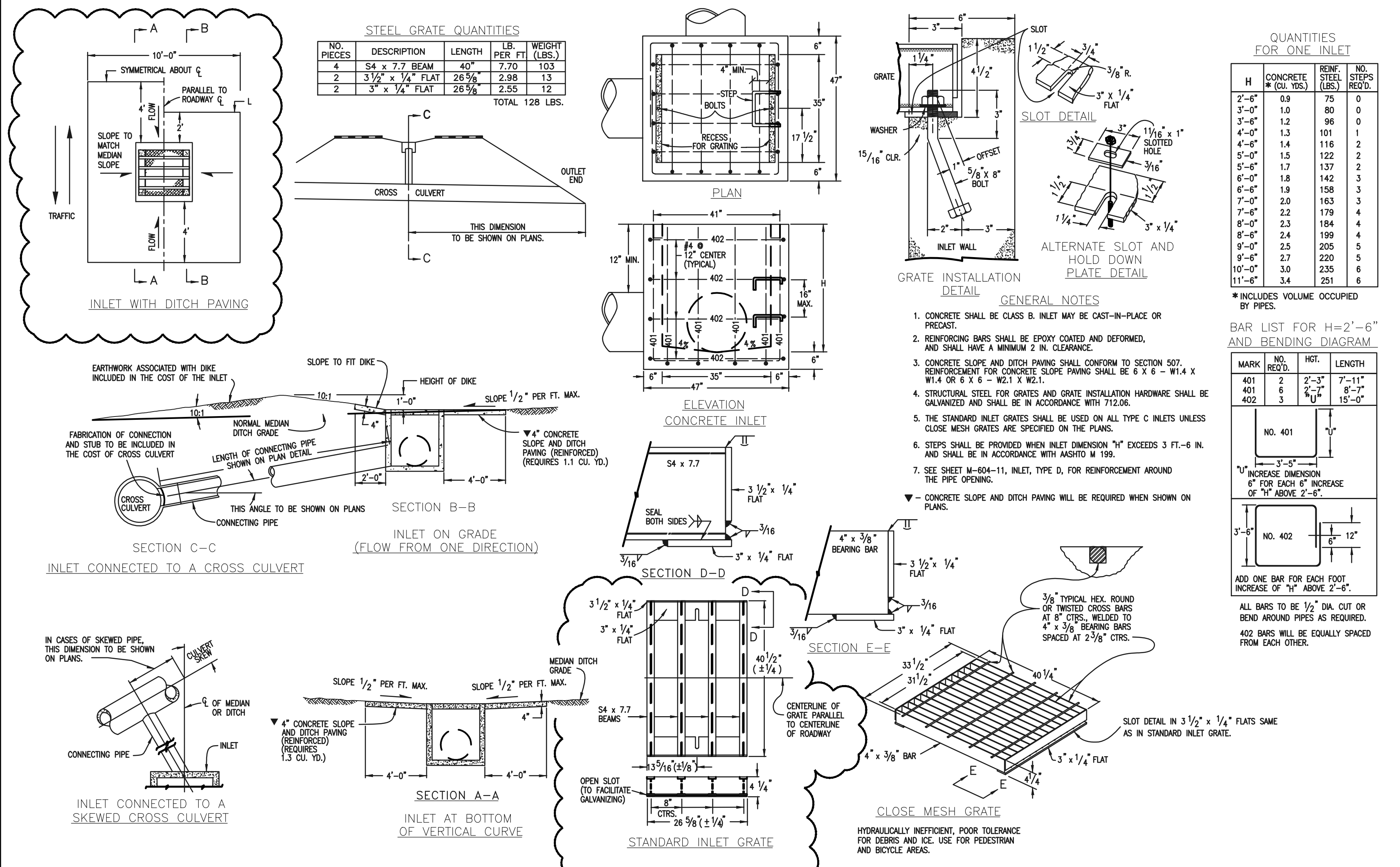
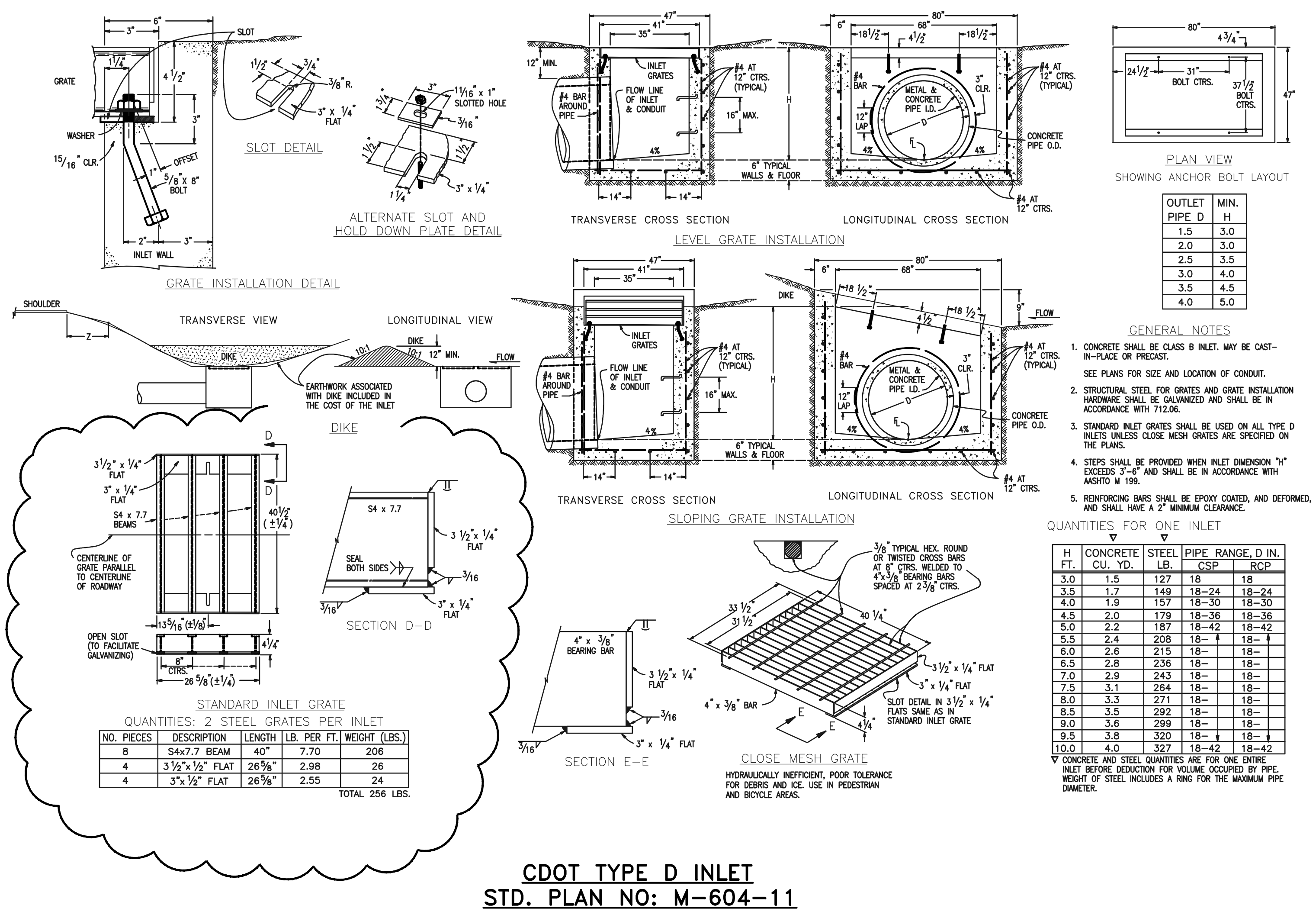
FOREST LAKES FILING NO. 7
CONSTRUCTION PLANS

DETAILS SHEET

DESIGNED BY	SCALE	DATE	11/23/21
DRAWN BY	(H) 1" = N/A	SHEET	30 OF 31
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.70

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

PCD FILE # SF-21-49



9-82 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 2
September 2017

9-83 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 2
September 2017

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

PCD FILE # SF-21-49

<p>FOREST LAKES FILING NO. 7 CONSTRUCTION PLANS</p> <p>DETAILS SHEET</p>		<p>CLASSIC CONSULTING</p> <p>619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903</p> <p>(719)785-0790 (719)785-0799(Fax)</p>	
DESIGNED BY	SCALE		DATE
DRAWN BY	(H) 1" = N/A		SHEET 31 OF 31
CHECKED BY	(V) 1" = N/A	JOB NO. 1175.60	

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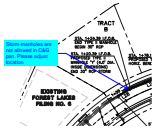
Construction Drawings_V2.pdf Markup Summary

CDurham (32)



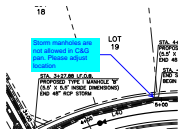
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Author: CDurham
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Storm manholes are not allowed in C&G pan.
Please adjust location



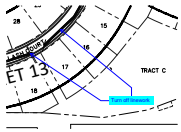
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Please adjust location



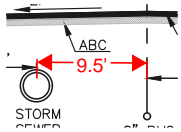
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Date: 3/10/2022 8:37:27 AM
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Storm manholes are not allowed in C&G pan.
Please adjust location



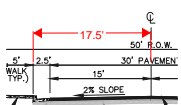
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Page Label: 8
Author: CDurham
Date: 3/15/2022 5:18:16 PM
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Turn off linework



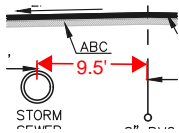
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Page Label: 8
Author: CDurham
Date: 3/16/2022 3:11:22 PM
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Space:

9.5'



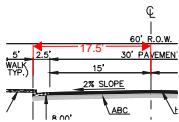
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Page Label: 8
Author: CDurham
Date: 3/16/2022 3:12:05 PM
Status:
Color: ■
Layer:
Space:

17.5'



Subject: Dimension
Page Label: 8
Author: CDurham
Date: 3/16/2022 4:47:09 PM
Status:
Color: ■
Layer:
Space:

9.5'



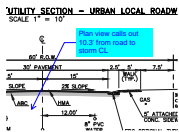
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Page Label: 8
Author: CDurham
Date: 3/16/2022 4:47:26 PM
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Space:

17.5'



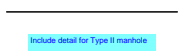
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Author: CDurham
Date: 3/16/2022 4:47:41 PM
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Plan view calls out 10' from road to storm CL



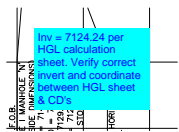
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Plan view calls out 10.3' from road to storm CL



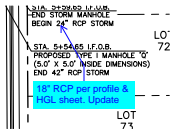
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Author: CDurham
Date: 3/16/2022 4:50:28 PM
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Space:

Include detail for Type II manhole



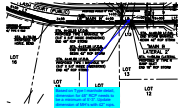
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Author: CDurham
Date: 3/21/2022 2:12:47 PM
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Inv = 7124.24 per HGL calculation sheet. Verify correct invert and coordinate between HGL sheet & CD's



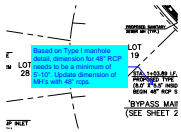
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18" RCP per profile & HGL sheet. Update



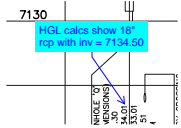
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Date: 3/21/2022 2:15:52 PM
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Based on Type I manhole detail, dimension for 48" RCP needs to be a minimum of 5'-3". Update dimension of MH's with 42" rcps.



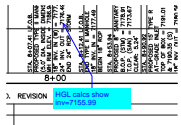
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Date: 3/21/2022 2:16:48 PM
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Based on Type I manhole detail, dimension for 48" RCP needs to be a minimum of 5'-10". Update dimension of MH's with 48" rcps.



Subject: Callout
Page Label: 17
Author: CDurham
Date: 3/21/2022 2:18:19 PM
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Color: ■
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HGL calcs show 18" rcp with inv = 7134.50



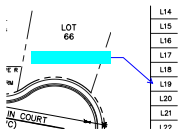
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Author: CDurham
Date: 3/21/2022 2:19:08 PM
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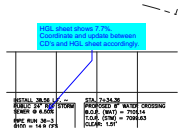


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Date: 3/21/2022 2:19:41 PM
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HGL calcs show inv=7155.99

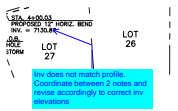


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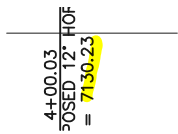
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Author: CDurham
Date: 3/21/2022 2:23:02 PM
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HGL sheet shows 7.7%. Coordinate and update between CD's and HGL sheet accordingly.

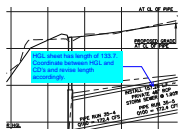


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Author: CDurham
Date: 3/21/2022 2:24:14 PM
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Inv does not match profile. Coordinate between 2 notes and revise accordingly to correct inv elevations

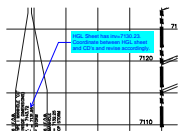


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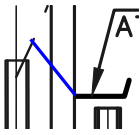
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Page Label: 20
Author: CDurham
Date: 3/21/2022 2:26:41 PM
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HGL sheet has length of 133.7. Coordinate between HGL and CD's and revise length accordingly.

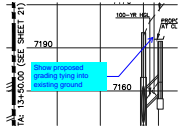


Subject: Callout
Page Label: 20
Author: CDurham
Date: 3/21/2022 2:27:54 PM
Status:
Color: ■
Layer:
Space:

HGL Sheet has inv=7130.23. Coordinate between HGL sheet and CD's and revise accordingly.

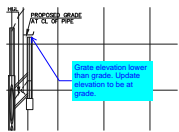


Subject: Line
Page Label: 20
Author: CDurham
Date: 3/21/2022 2:29:02 PM
Status:
Color: ■
Layer:
Space:



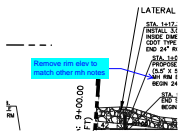
Subject: Callout
Page Label: 20
Author: CDurham
Date: 3/21/2022 2:29:19 PM
Status:
Color: ■
Layer:
Space:

Show proposed grading tying into existing ground



Subject: Callout
Page Label: 20
Author: CDurham
Date: 3/21/2022 2:30:04 PM
Status:
Color: ■
Layer:
Space:

Grate elevation lower than grade. Update elevation to be at grade.



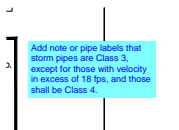
Subject: Callout
Page Label: 20
Author: CDurham
Date: 3/21/2022 2:30:36 PM
Status:
Color: ■
Layer:
Space:

Remove rim elev to match other mh notes



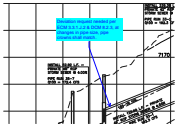
Subject: Callout
Page Label: 16
Author: CDurham
Date: 3/21/2022 2:46:45 PM
Status:
Color: ■
Layer:
Space:

Manhole lids shown above ground. Check Rim elevations on all manholes through storm sheets.



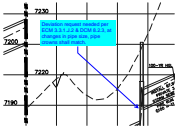
Subject: Text Box
Page Label: 16
Author: CDurham
Date: 3/21/2022 2:48:37 PM
Status:
Color: ■
Layer:
Space:

Add note or pipe labels that storm pipes are Class 3, except for those with velocity in excess of 18 fps, and those shall be Class 4.



Subject: Callout
Page Label: 20
Author: CDurham
Date: 3/24/2022 8:19:18 AM
Status:
Color: ■
Layer:
Space:

Deviation request needed per ECM 3.3.1.J.2 & DCM 8.2.3, at changes in pipe size, pipe crowns shall match.



Subject: Callout
Page Label: 21
Author: CDurham
Date: 3/24/2022 8:19:45 AM
Status:
Color: ■
Layer:
Space:

Deviation request needed per ECM 3.3.1.J.2 & DCM 8.2.3, at changes in pipe size, pipe crowns shall match.