

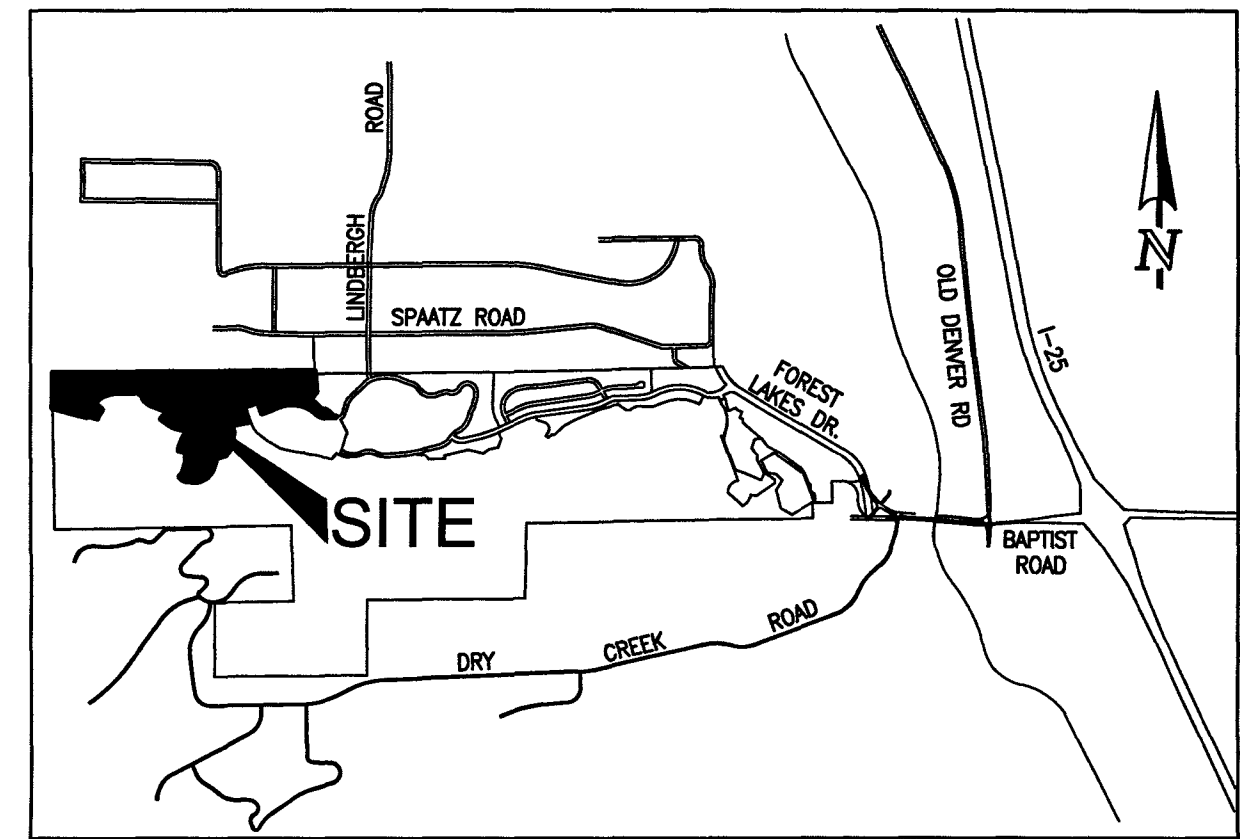
FOREST LAKES FILING NO. 6

COUNTY OF EL PASO, STATE OF COLORADO

CONSTRUCTION PLANS

DECEMBER 2020

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



VICINITY MAP
NOT TO SCALE

GENERAL CONSTRUCTION NOTES:

1. 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.
2. BEFORE COMMENCING ANY EXCAVATION, CALL 1-800-922-1987 FOR EXISTING UTILITY LOCATIONS.
3. 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.
4. 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).
5. ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE INDICATED.
6. 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.
7. ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO THE EPC ECM APPENDIX K - 1.2C.
8. ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
9. BUILDING CONTRACTORS WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
10. 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.
11. 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.
12. 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.
13. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN COMPLIANCE WITH ANY AND ALL APPLICABLE EL PASO COUNTY STANDARDS.
14. 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:

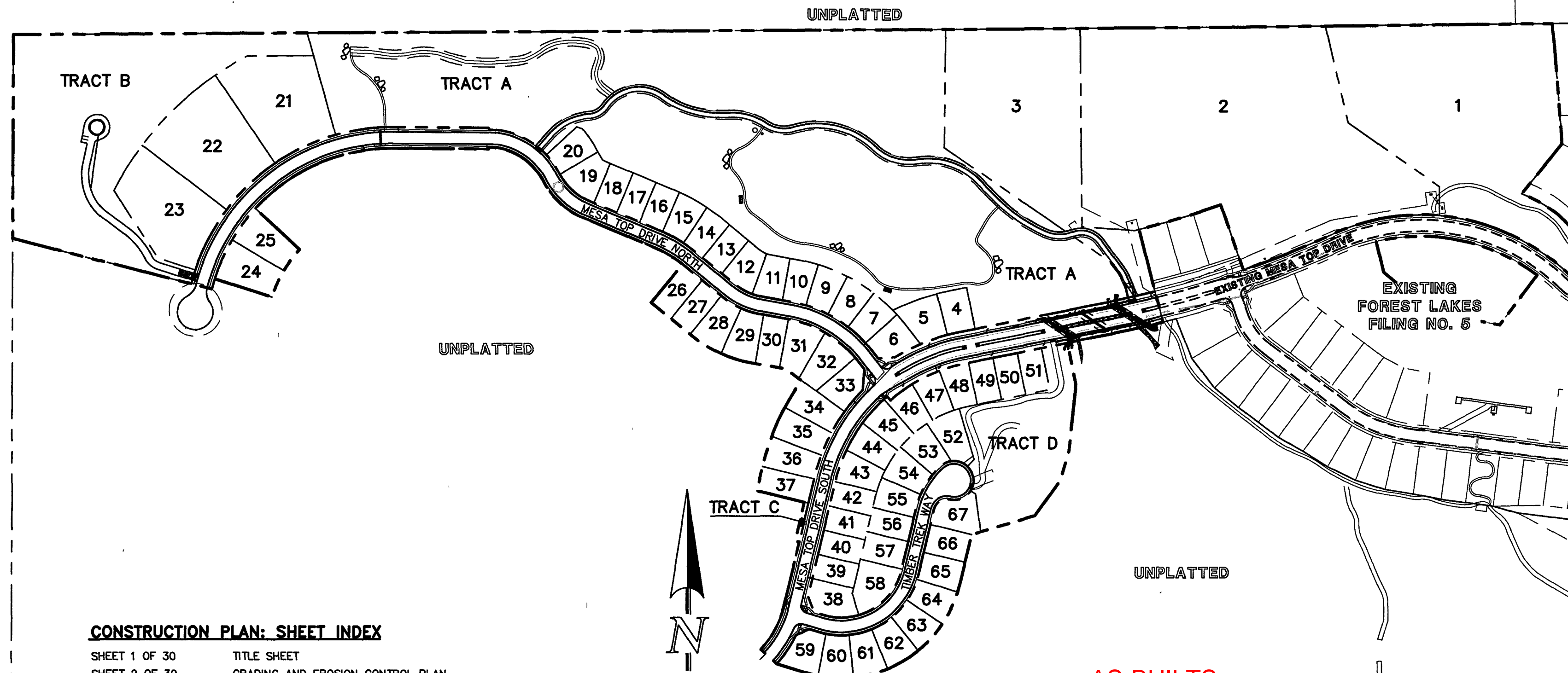
1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION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

SIGNING AND STRIPING NOTES:

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

BENCHMARKS:

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



KEY MAP
SCALE: 1" = 250'

CONSTRUCTION PLAN: SHEET INDEX

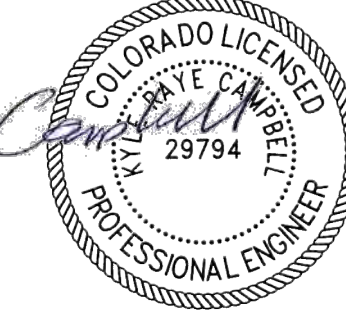
SHEET 1 OF 30	TITLE SHEET
SHEET 2 OF 30	GRADING AND EROSION CONTROL PLAN
SHEET 3 OF 30	GRADING AND EROSION CONTROL PLAN
SHEET 4 OF 30	GRADING AND EROSION CONTROL PLAN
SHEET 5 OF 30	GRADING AND EROSION CONTROL PLAN
SHEET 6 OF 30	GRADING AND EROSION CONTROL PLAN NOTES & DETAIL SHEET
SHEET 7 OF 30	GRADING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

UTILITY CONSTRUCTION PLAN: SHEET INDEX

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

Please provide as-builts of any changes to the utility construction plans

AS-BUILTS
01/05/2023
SF-20-027



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. 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, ERRORS, OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

Kyle R. Campbell
KYLE R. CAMPBELL, COLORADO P.E. #29794
FOR AND ON THE BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS
DATE: 4.9.21

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

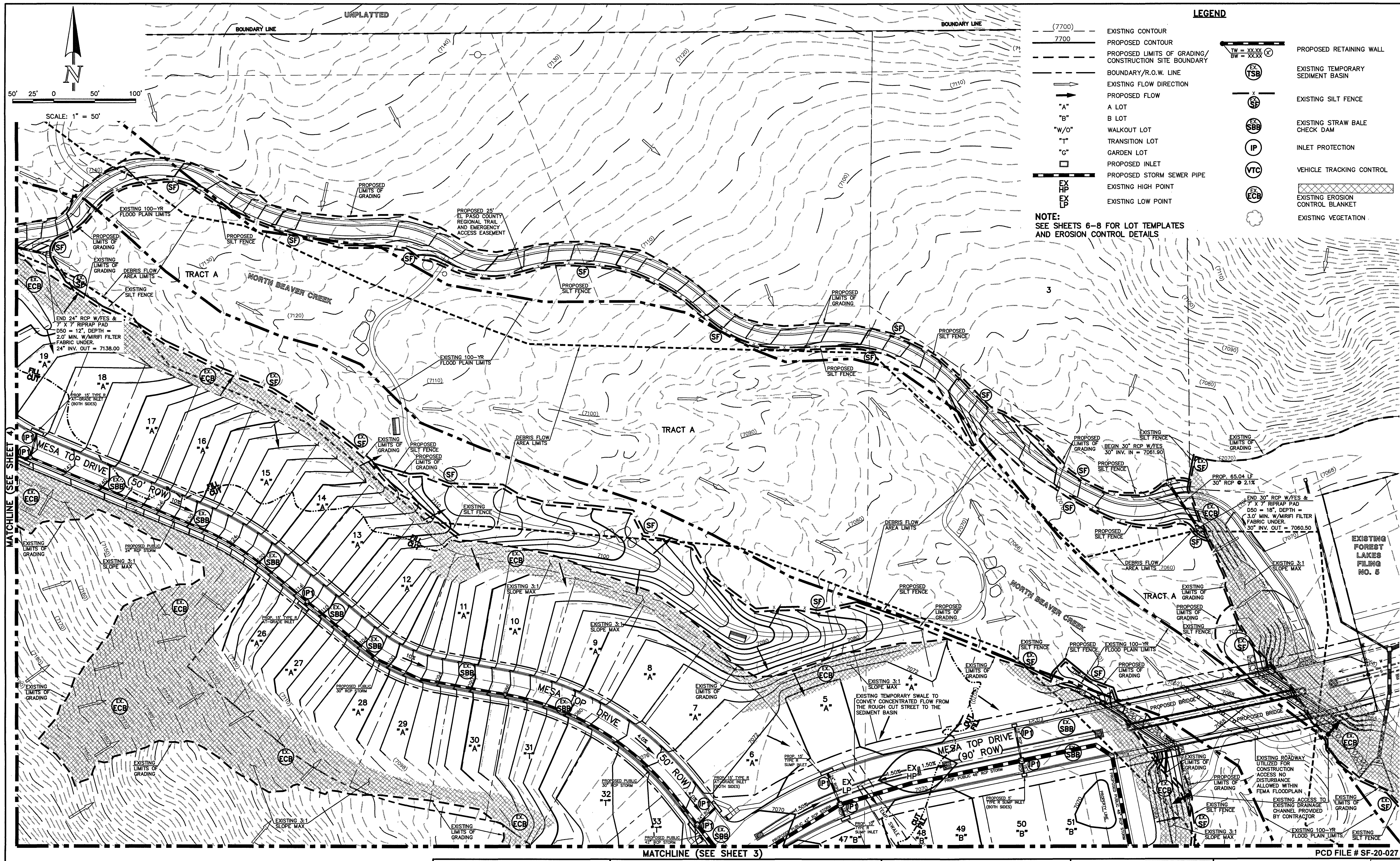
Jim Boulton
JIM BOULTON
DATE: 4-6-21

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 WAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

JENNIFER IRVINE, P.E.
COUNTY ENGINEER / ECM ADMINISTRATOR
DATE: _____
PCD FILE # SF-20-027

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW	NO. REVISION	DATE	REVIEW:	 CLASSIC CONSULTING 619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903 (719) 785-0790 (719) 785-0799(Fax)	FOREST LAKES FILING NO. 6 CONSTRUCTION PLANS TITLE SHEET
	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.				



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
- TW = XX.XX PROPOSED RETAINING WALL
- BW = XX.XX
- EX TSB EXISTING TEMPORARY SEDIMENT BASIN
- EX SF EXISTING SILT FENCE
- EX SBB EXISTING STRAW BALE CHECK DAM
- IP INLET PROTECTION
- VTC VEHICLE TRACKING CONTROL
- EX ECB EXISTING EROSION CONTROL BLANKET
- EXISTING VEGETATION

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

SCALE: 1" = 50'

MATCHLINE (SEE SHEET 4)

MATCHLINE (SEE SHEET 3)

PCD FILE # SF-20-027



AS-BUILTS
01/05/2023
SF-20-027

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

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

DATE 4.9.24



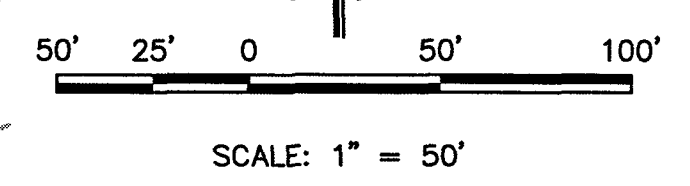
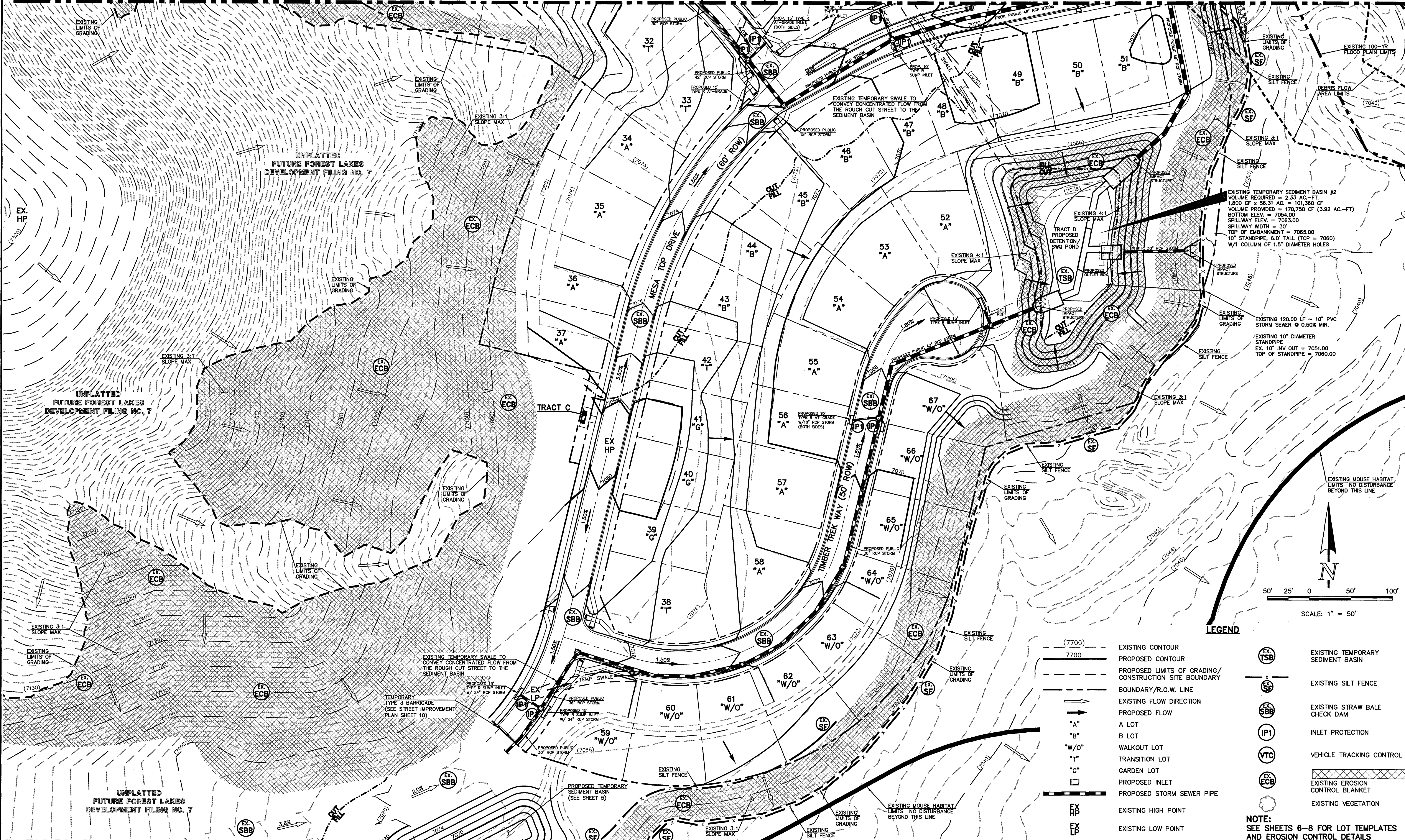
FOREST LAKES FILING NO. 6

GRADING AND EROSION CONTROL PLAN

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

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MATCHLINE (SEE SHEET 2)



LEGEND

- (7700) --- EXISTING CONTOUR
- 7700 --- PROPOSED CONTOUR
- PROPOSED LIMITS OF GRADING/ CONSTRUCTION SITE BOUNDARY
- BOUNDARY/R.O.W. LINE
- EXISTING FLOW DIRECTION
- PROPOSED FLOW
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- 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 IP1 INLET PROTECTION
- EX VTC VEHICLE TRACKING CONTROL
- EX ECB EXISTING EROSION CONTROL BLANKET
- EXISTING VEGETATION

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

PCD FILE # SF-20-027

Kyle R. Campbell

COLORADO LICENSED SAFETY CAMELLET PROFESSIONAL ENGINEER 29794

AS-BUILTS
01/05/2023
SF-20-027

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

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NO. REVISION	DATE	REVIEW:

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

Kyle R. Campbell

29794

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

DATE 1/4/21

CLASSIC CONSULTING

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

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

FOREST LAKES FILING NO. 6

GRADING AND EROSION CONTROL PLAN

DESIGNED BY	MAL	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET	3 OF 30
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.50	

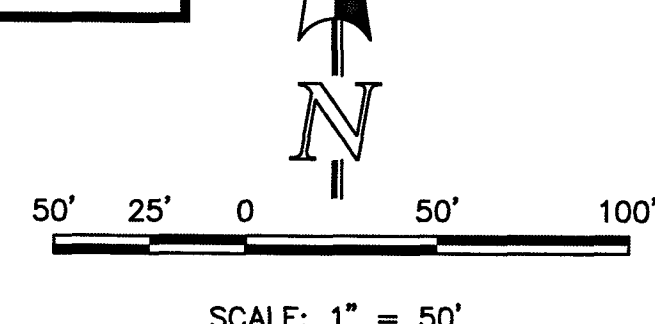


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- LEGEND**
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 - EXISTING VEGETATION

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



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

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

NO.	REVISION	DATE

AS-BUILTS
01/05/2023
SF-20-027

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

CLASSIC CONSULTING

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

(719) 785-0790
(719) 785-0798(Fax)

FOREST LAKES FILING NO. 6

GRADING AND EROSION CONTROL PLAN

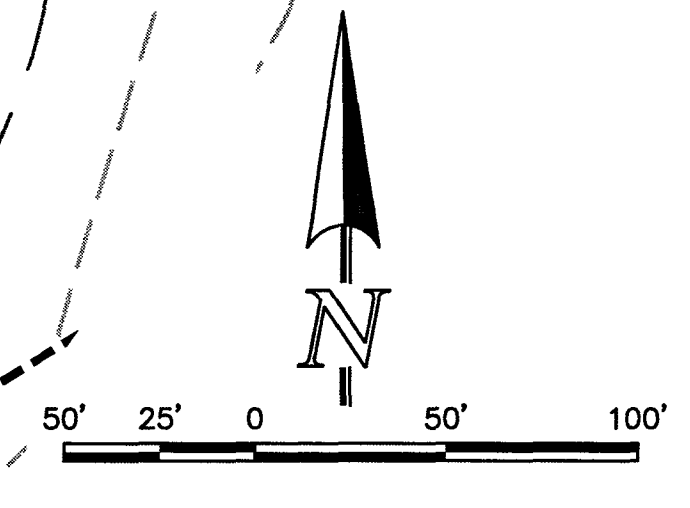
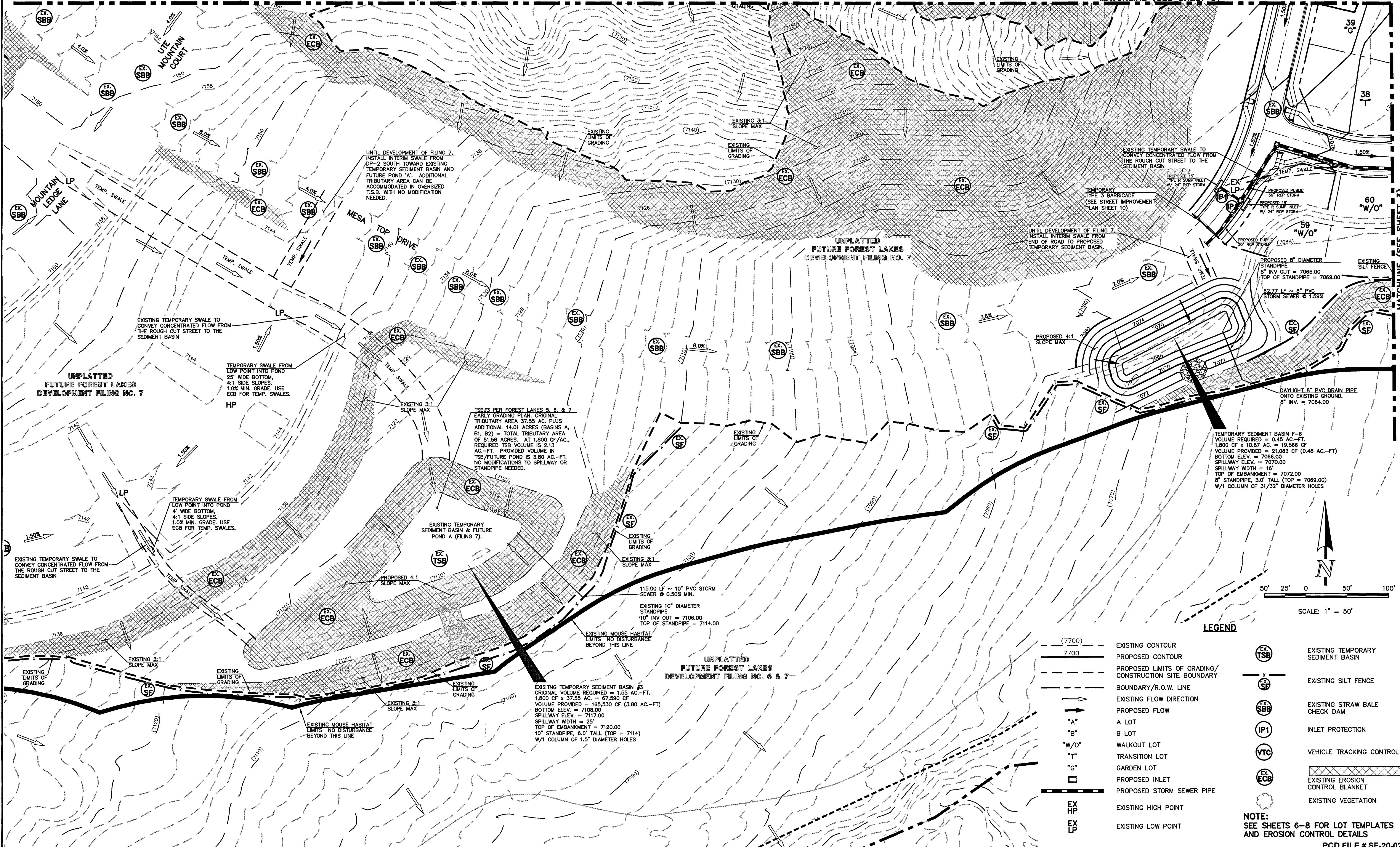
DESIGNED BY	MAL	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET	4 OF 30
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.60	

PCD FILE # SF-20-027

N:\17560\DRAWINGS\CONSTRUCTION\GRADING-EROSION\04-117560-GR-02.dwg, 4/5/2021, 1:34:36 PM, 1:1

MATCHLINE (SEE EARLY GRADING PLAN & SHEET 4)

MATCHLINE (SEE SHEET 3)



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 IP1 INLET PROTECTION
 - EX VTC VEHICLE TRACKING CONTROL
 - EX ECB EXISTING EROSION CONTROL BLANKET
 - EXISTING VEGETATION
- NOTE:**
SEE SHEETS 6-8 FOR LOT TEMPLATES AND EROSION CONTROL DETAILS

PCD FILE # SF-20-027

AS-BUILTS
01/05/2023
SF-20-027

Professional Engineer Seal

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

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NO.	REVISION	DATE

REVIEW:

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

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

DATE: 4/21

CLASSIC CONSULTING

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

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

FOREST LAKES FILING NO. 6

GRADING AND EROSION CONTROL PLAN

DESIGNED BY	MAL	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET	5 OF 30
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.50	

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EL PASO COUNTY GRADING AND EROSION CONTROL NOTES:

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED G.C. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT AFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE EGM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENEED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON-SITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE EGM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ON-SITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS) AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE EGM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (104), NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

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

CONSTRUCTION CONTROL MEASURES NOTES:

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

EROSION CONTROL CRITERIA:

EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN A MANNER THAT WILL PROTECT PROPERTIES AND PUBLIC FACILITIES FROM THE ADVERSE EFFECTS OF EROSION AND SEDIMENTATION AS A RESULT OF CONSTRUCTION AND EARTHWORK ACTIVITIES WITHIN THE PROJECT SITE.

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

SEEDING GUIDELINES:

- SEEDBED PREPARATION**
THE SEEDBED SHOULD BE WELL-SETTLED AND FIRM, BUT FRIABLE ENOUGH THAT THE SEED CAN BE PLACED AT THE SPECIFIED DEPTHS. COMPETITIVE STANDS OF WEEDS THAT ARE PRESENT BEFORE SEEDING MUST BE CONTROLLED BY SHALLOW TILLAGE OR BY APPLICATION OF HERBICIDES. SOILS THAT HAVE BEEN OVER-COMPACTED BY TRAFFIC OR EQUIPMENT, ESPECIALLY WHEN WET, SHOULD BE TILLED TO BREAK UP ROOTING-RESTRICTIVE LAYERS, THAN HARROWED, ROLLED, OR PACKED TO PREPARE THE REQUIRED FIRM SEEDBED.
- FERTILIZER**
FERTILIZER SHOULD BE APPLIED AT A RATE OF 50 POUNDS OF AVAIL-ABLE NITROGEN PER ACRE AND 40 POUNDS OF AVAILABLE PHOSPHATE PER ACRE. THE TIME OF APPLICATION SHOULD BE IMMEDIATELY PRIOR TO SEEDING, AT THE TIME OF SEEDING, OR IMMEDIATELY FOLLOWING SEEDING, DEPENDING ON THE KIND OF FERTILIZER AND TYPE OF EQUIPMENT USED.
- SEEDING**
SEED SHOULD BE PLANTED WITH A GRASS DRILL ON ALL SLOPES OF 33% (3:1) OR FLATTER. SEED MAY BE BROADCAST BY HAND, BY MECHANICAL SPREADER, OR BY HYDRAULIC EQUIPMENT ON AREAS THAT ARE SMALL, TOO STEEP, OR NOT ACCESSIBLE FOR SEED DRILL OPERATIONS. SEED PLANTED WITH A DRILL SHOULD BE COVERED WITH SOIL TO A DEPTH OF 1/4 TO 3/4 INCH. SEED PLANTED BY THE BROADCAST METHOD SHALL BE INCORPORATED INTO THE SOIL SURFACE, NOT TO EXCEED A DEPTH OF 3/4 INCH, BY RAKING, HARROWING, OR OTHER PROVEN METHOD. THE TIME OF SEEDING IS FROM OCTOBER 15TH - MAY 31ST. SEED PLANTED IN THE LATE FALL WILL REMAIN DORMANT UNTIL SPRING, WHEN IT WILL GERMINATE.
- MULCHING**
SEEDED AREAS SHOULD BE MULCHED TO CONSERVE MOISTURE, PREVENT SURFACE COMPACTION OR CRUSTING, REDUCE RUNOFF AND EROSION; CONTROL INSECTS; AND HELP ESTABLISH PLANT COVER.
NATIVE HAY OR STRAW SHOULD BE APPLIED AT A RATE OF 4,000 POUNDS PER ACRE AND CRIMPED INTO THE GROUND. ON SLOPES GREATER THAN 3:1, AN AGRONOMY BLANKET SHOULD BE USED.
- SUPPLEMENTAL WATER**
IN LOW RAINFALL AREAS, WHERE WATER IS AVAILABLE AND WHERE RAPID ESTABLISHMENT IS NEEDED, IRRIGATION OF NEW SEEDING SHOULD BE PERFORMED DURING THE FIRST GROWING SEASON. WATER SHOULD BE APPLIED AT APPROXIMATELY ONE WEEK INTERVALS, AT A RATE OF 3/4 TO 1 INCH PER APPLICATION, WHEN RAINFALL IS DEFICIENT FOR PLANT DEVELOPMENT.

NOTES:

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

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

A PORTION OF THE OVERALL FOREST LAKES DEVELOPMENT IS LOCATED WITHIN A FLOODPLAIN AS DETERMINED BY THE FLOOD INSURANCE RATE MAPS (F.I.R.M.) MAP NUMBERS 08041 C02870, C02860, C02860 & C02590 EFFECTIVE DATE, DECEMBER 7, 2018. HOWEVER, THERE IS NO PORTION OF FILING 6 DEVELOPMENT WITHIN THE FLOODPLAIN LIMITS.

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

EXISTING VEGETATION CONSISTS OF NATIVE GRASSES.

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

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

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

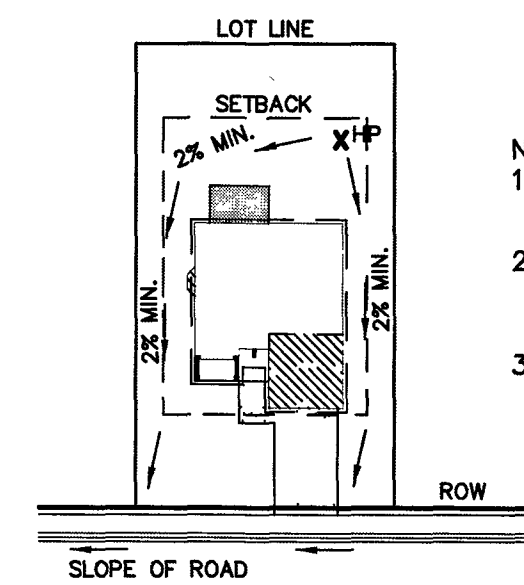
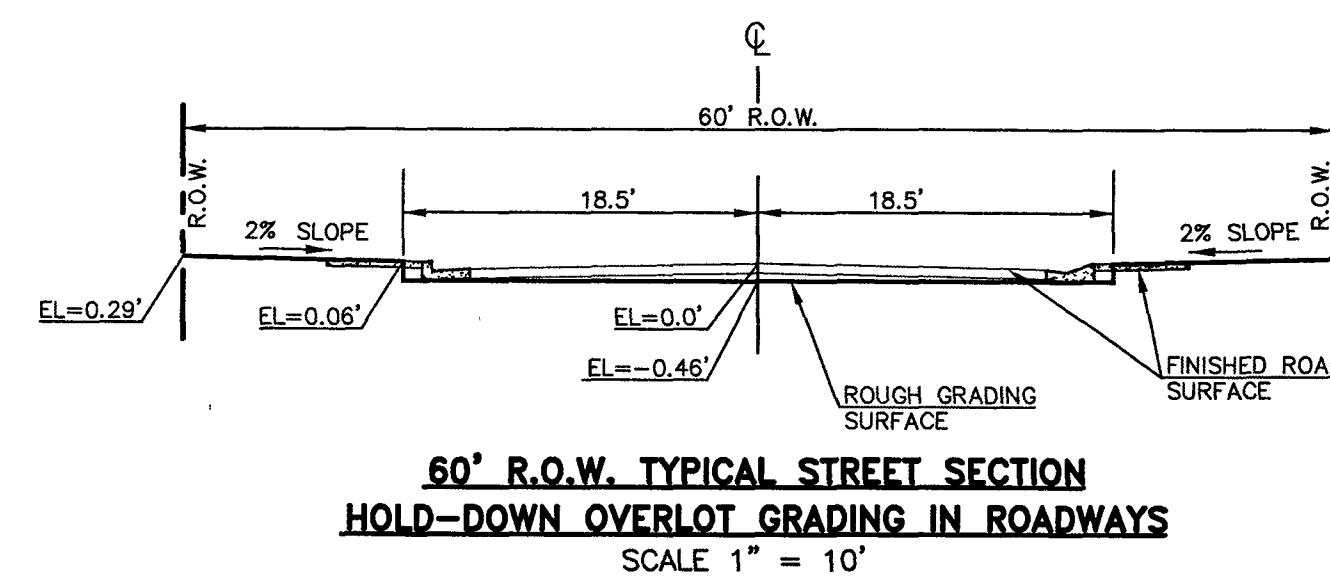
GRADING WITHIN THIS PHASE WILL BE FULLY DEVELOPED WITH HOME BUILDING OPERATIONS.

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

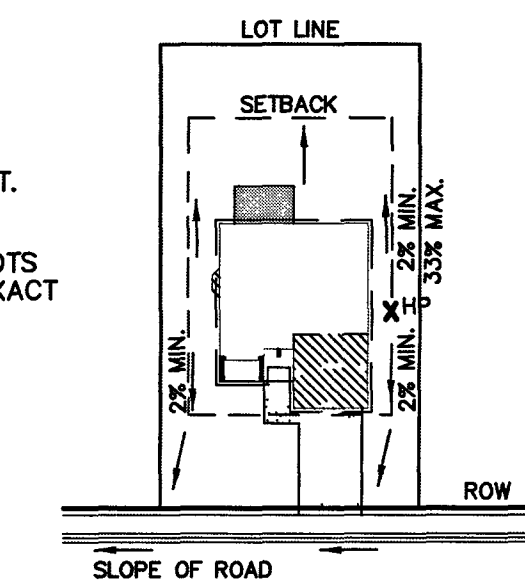
ALL AREAS ARE TO BE RESEEDED OUTSIDE OF THE FILING NO. 5 AREA. RESEED ALL AREAS AS NEEDED TO PREVENT EROSION AND SEDIMENT RUNOFF ONTO CONSTRUCTION ACTIVITIES.

SCHEDULE OF ANTICIPATED CONSTRUCTION ACTIVITY:

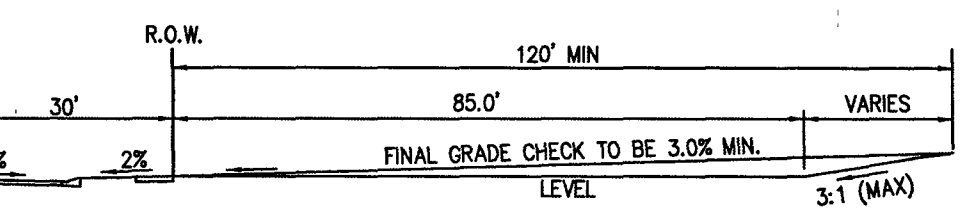
BEGIN CONSTRUCTION UPON APPROVAL	ACTIVITY	COMPLETION	EROSION CONTROL
	1. INSTALL INITIAL BMP'S	8 MONTHS	ALL SHOWN ON GRADING PLAN
	2. INSPECTION OF INITIAL BMP'S BY COUNTY STAFF		
	3. PRECONSTRUCTION MEETING WITH COUNTY STAFF		
	ALL SITE ROADWAY GRADING AND UTILITY INSTALLATION		



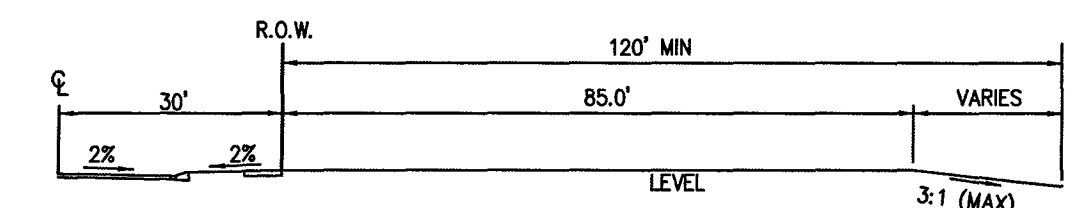
TYPICAL "A" LOT DRAINAGE PATTERN N.T.S.



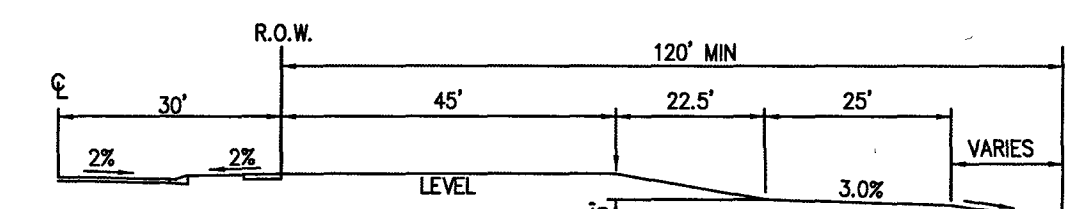
TYPICAL "B", "C", "W/O" LOT DRAINAGE PATTERN N.T.S.



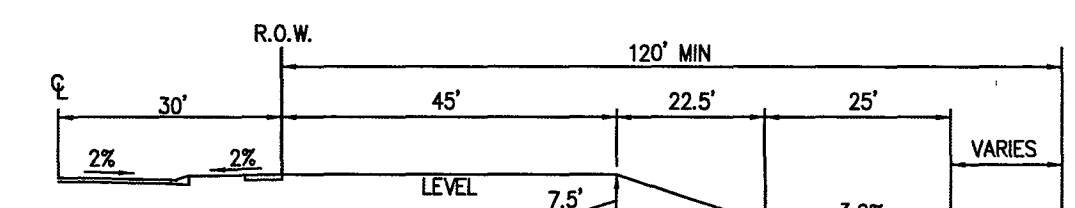
TYPICAL A LOT NOT TO SCALE



TYPICAL B LOT NOT TO SCALE



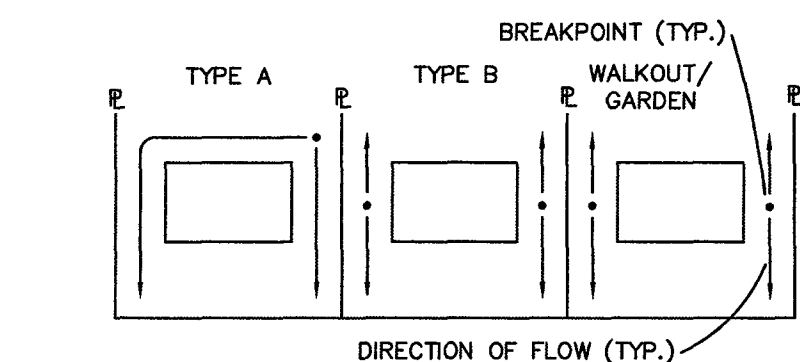
TYPICAL GARDEN (G) LOT NOT TO SCALE



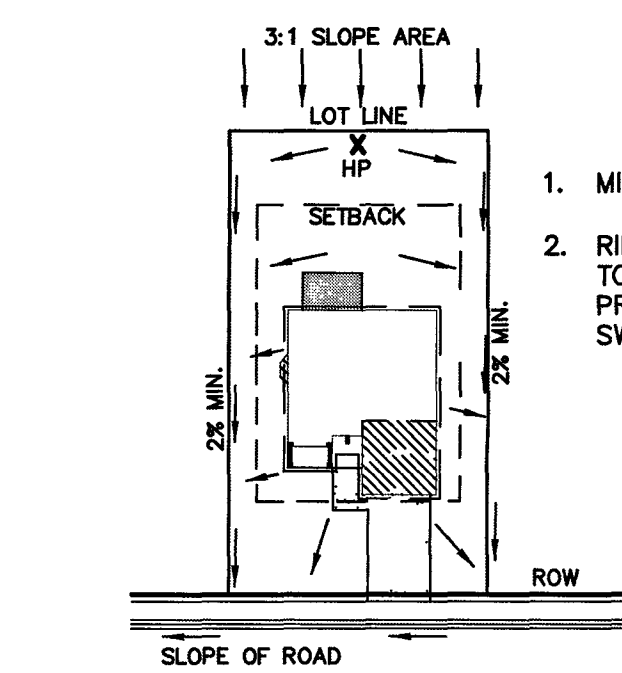
TYPICAL WALKOUT (W/O) LOT NOT TO SCALE

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

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



LOT DRAINAGE TYPES



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

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

PCD FILE # SF-20-027

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS	NO. REVISION	DATE
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REVIEW:
PREPARED UNDER DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
29794
KYLE R. MAMBELE, COLORADO P.E. #29794
DATE

CLASSIC CONSULTING

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

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

CLASSIC CONSULTING

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

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

6/23/20
DATE APPROVED: Jennifer E. Irvine
REVISION DATE: 6/23/20
FILE NAME: SD_2-41

6/23/20
DATE APPROVED: Jennifer E. Irvine
REVISION DATE: 6/23/20
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	Expected Longevity
Mulch Control Nets	5:1 (H:V)	≤0.10 @ 5.1	0.25 lb/ft ² (12 Pa)	5 lb/ft (0.073 kN/m)
Netless Rolled Erosion Control Blankets	4:1 (H:V)	≤0.10 @ 4:1	0.5 lb/ft ² (24 Pa)	5 lb/ft (0.073 kN/m)
Single-net Erosion Control Blankets & Open Weave Textiles	3:1 (H:V)	≤0.15 @ 3:1	1.5 lb/ft ² (72 Pa)	50 lb/ft (0.73 kN/m)
Double-net Erosion Control Blankets	2:1 (H:V)	≤0.20 @ 2:1	1.75 lb/ft ² (84 Pa)	75 lb/ft (1.09 kN/m)
Mulch Control Mats	5:1 (H:V)	≤0.10 @ 5:1	0.25 lb/ft ² (12 Pa)	25 lb/ft (0.36 kN/m)
Erosion Control Blankets & Open Weave Textiles (slowly degrading)	1.5:1 (H:V)	≤0.25 @ 1.5:1	2.00 lb/ft ² (96 Pa)	100 lb/ft (1.45 kN/m)
Erosion Control Blankets & Open Weave Textiles	1:1 (H:V)	≤0.25 @ 1:1	2.25 lb/ft ² (108 Pa)	125 lb/ft (1.82 kN/m)

* C Factor and shear stress for mulch control nettings must be obtained with netting used in conjunction with pre-applied mulch material. (See Section 3.3 of Chapter 7 Construction BMPs for more information on the C Factor.)
 † Minimum Average Roll Values, Machine direction using ECTC Mod. ASTM D 5035.
 ‡ C Factor calculated as ratio of soil loss from RECP protected slope (tested at specified or greater gradient, H:V) to ratio of soil loss from unprotected (control) plot in large-scale testing.
 § Required minimum shear stress RECP (unvegetated) can sustain without physical damage or excess erosion (> 12.7 mm (0.5 in) soil loss) during a 30-minute flow event in large-scale testing.
 ¶ The permissible shear stress levels established for each performance category are based on historical experience with products characterized by Manning's roughness coefficients in the range of 0.01 - 0.05.
 †† Acceptable large-scale test methods may include ASTM D 6459, or other independent testing deemed acceptable by the engineer.
 ††† Per the engineer's discretion, recommended acceptable large-scale testing protocol may include ASTM D 6460, or other independent testing deemed acceptable by the engineer.

EC-6 Rolled Erosion Control Products (RECP)

EROSION CONTROL BLANKET INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF ECB
 - TYPE OF ECB (STRAW, STRAW-COCOON, COCONUT, OR EXCELSIOR)
 - AREA, A, IN SQUARE YARDS OF EACH TYPE OF ECB
- FOUR 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. SURFACE SHALL BE SMOOTH AND MOIST PRIOR TO ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.
- PERMETER 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 DETAILS 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	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDED NETTING*
STRAW	-	100%	-	DOUBLE/NATURAL
STRAW-COCOON	30% MIN	70% MAX	-	DOUBLE/NATURAL
COCONUT	100%	-	-	DOUBLE/NATURAL
EXCELSIOR	-	-	100%	DOUBLE/NATURAL

* NETTING TYPE SHALL BE "STRET" TYPE OF STRET TYPE UNLESS OTHERWISE SPECIFIED.
 † NETTING TYPE SHALL BE ACCEPTABLE IN LOCAL 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 AREAS BELOW THE GEOTEXTILE THAT HAVE EXPOSED TO GREAT A VOID UNDER THE BLANKET, OR THAT REMAIN 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 PATER, COLORADO, NOT AVAILABLE IN AUTOCAD)

EC-6 Rolled Erosion Control Products (RECP)

RECP-6 Urban Drainage and Flood Control District November 2010
 Urban Storm Drainage Criteria Manual Volume 3

RECP-7 Urban Drainage and Flood Control District November 2010
 Urban Storm Drainage Criteria Manual Volume 3

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW	NO. REVISION	DATE	REVIEW:
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			KYLE R. CAMPBELL, COLORADO P.E. #29794
			DATE: 9.9.21

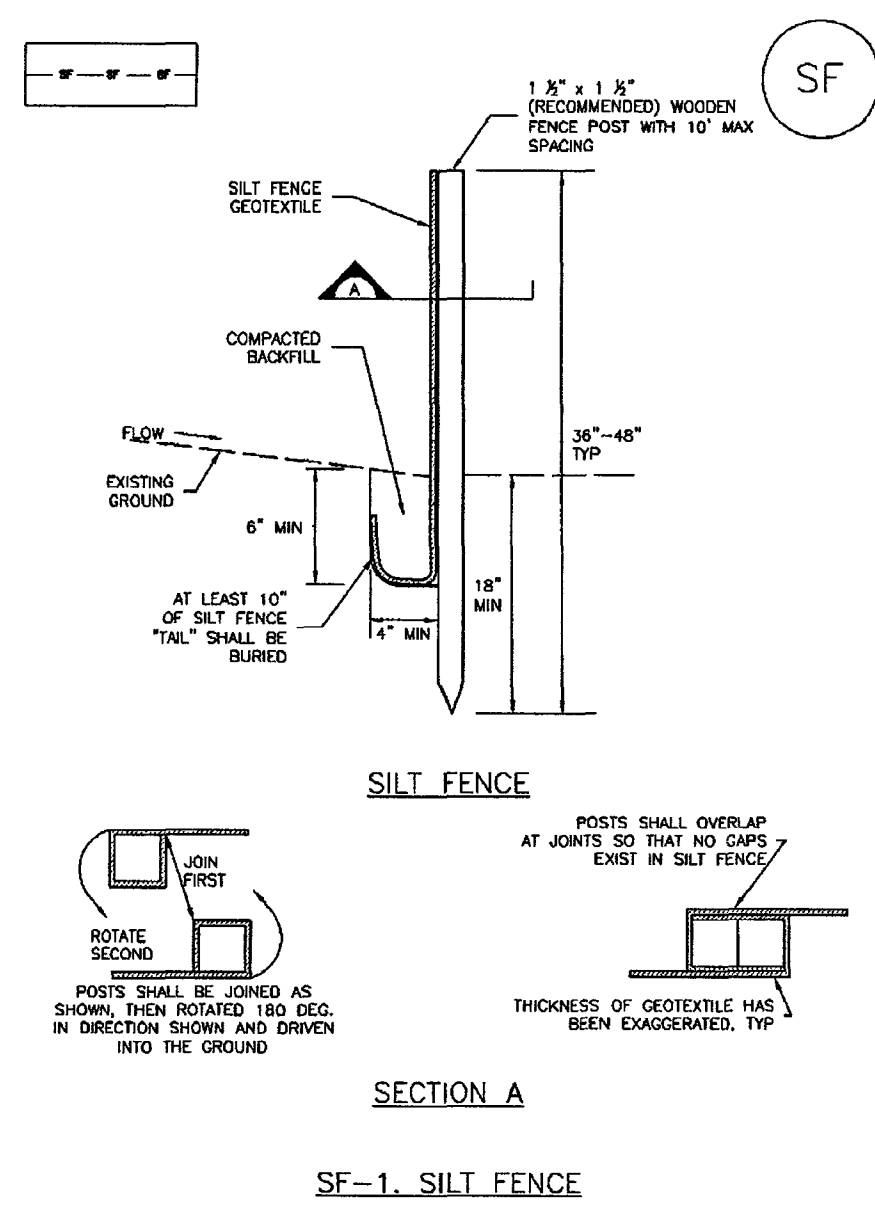
PCD FILE # SF-20-027

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

DESIGNED BY	MAL	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = N/A	SHEET	7 OF 30
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.50	

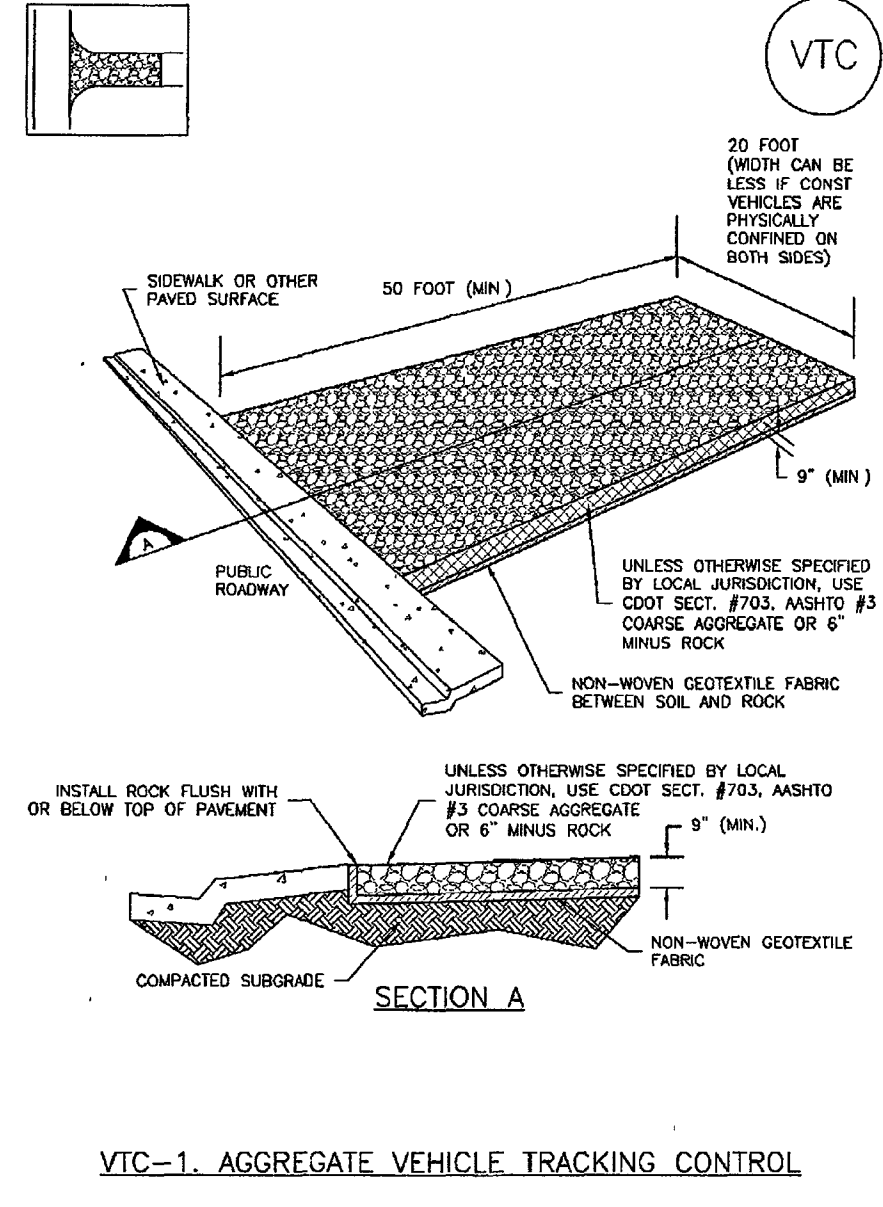
CLASSIC CONSULTING
 619 N. Cascade Avenue, Suite 200 (719) 785-0790
 Colorado Springs, Colorado 80903 (719) 785-0799 (Fax)

Silt Fence (SF) SC-1



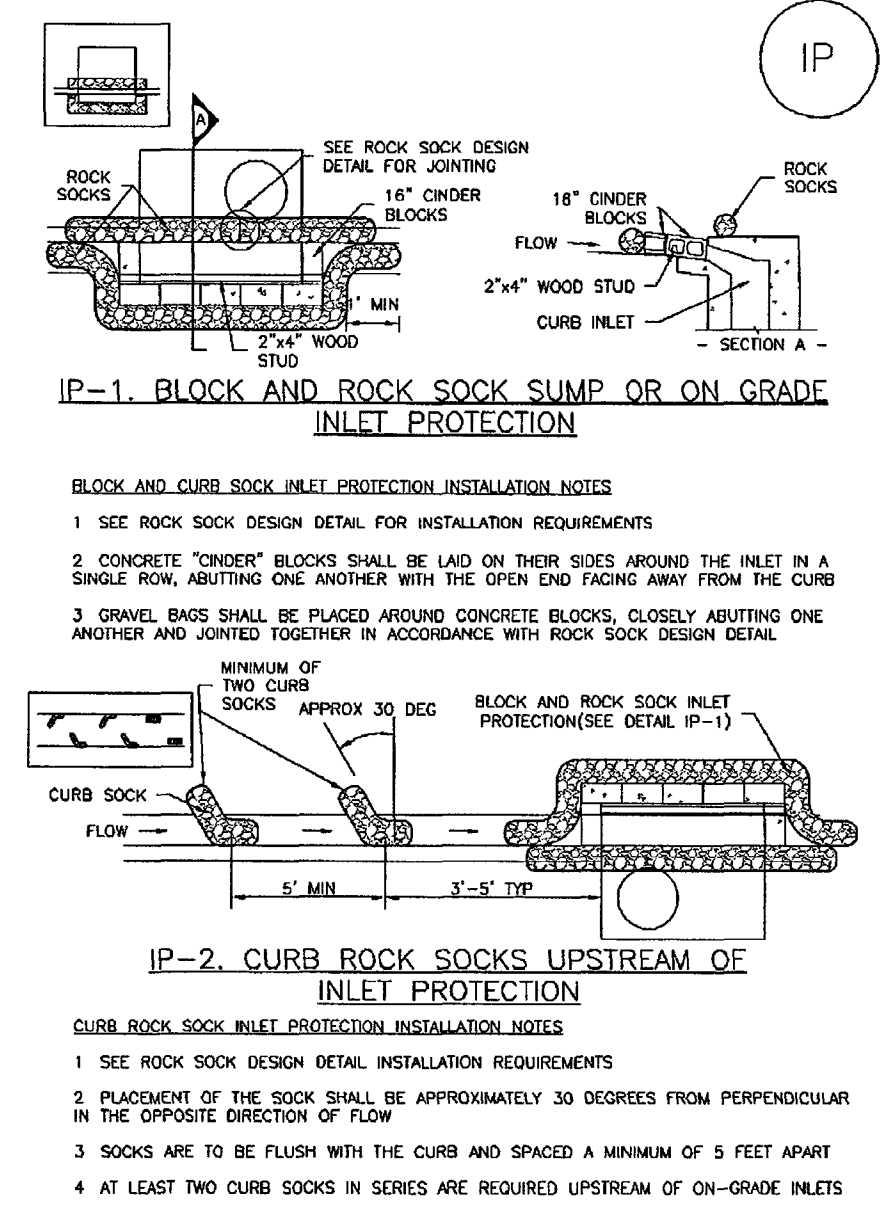
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SF-3

Vehicle Tracking Control (VTC) SM-4



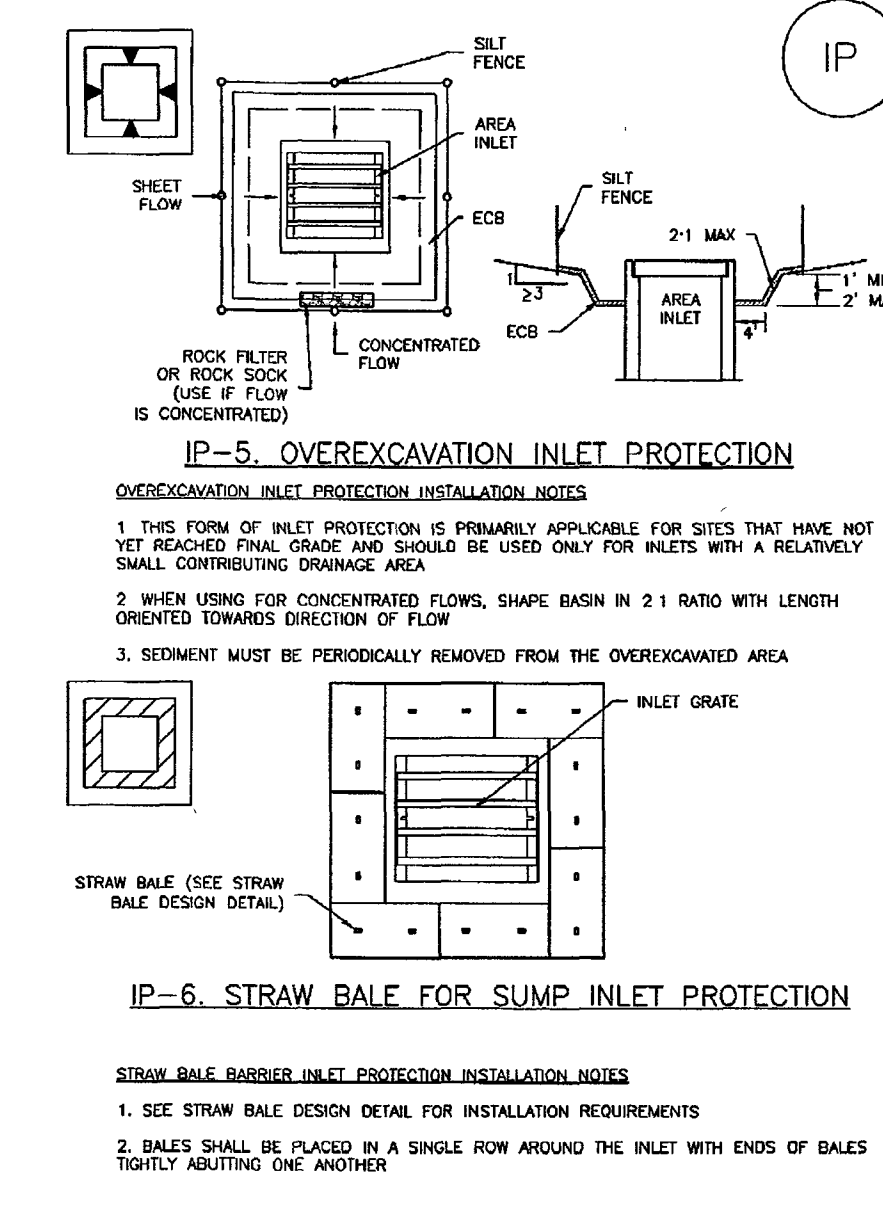
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-3

Inlet Protection (IP) SC-6



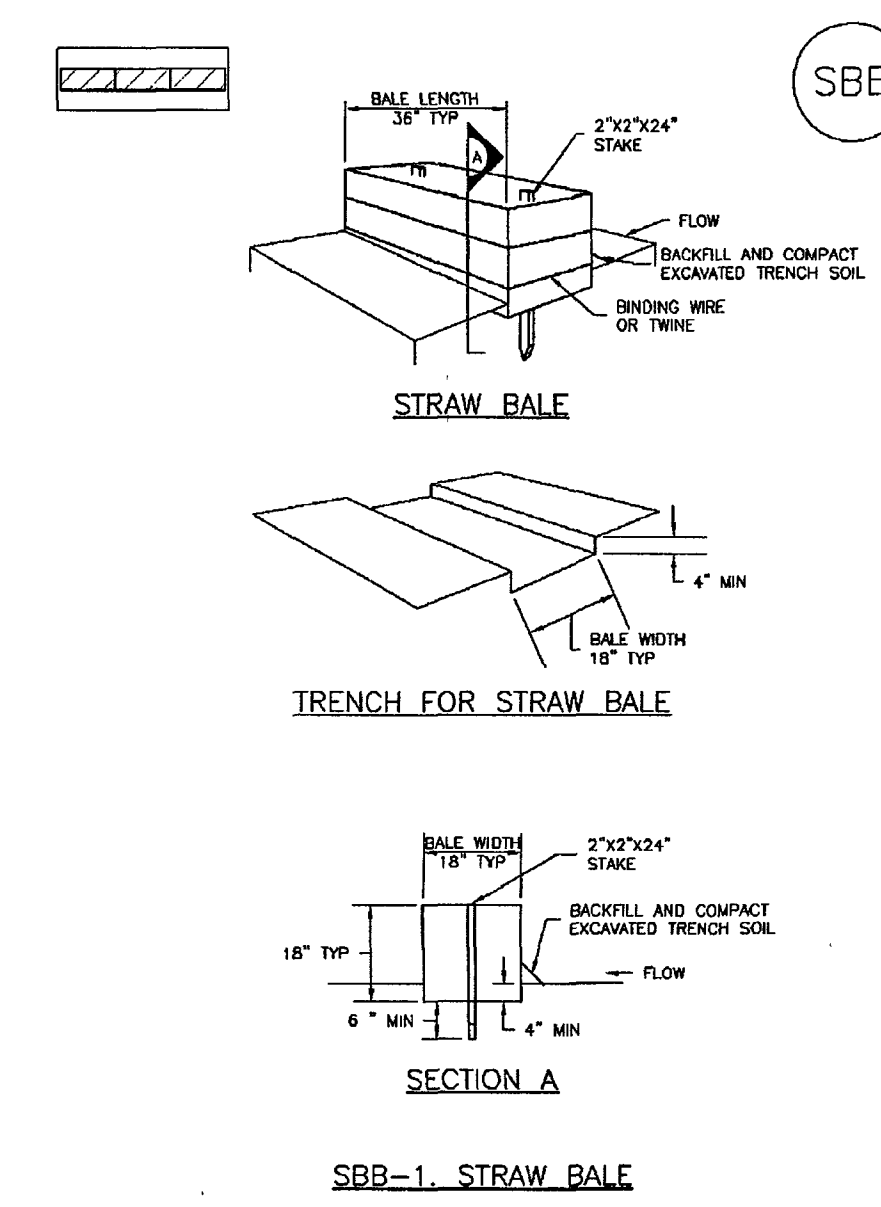
IP-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

Inlet Protection (IP) SC-6



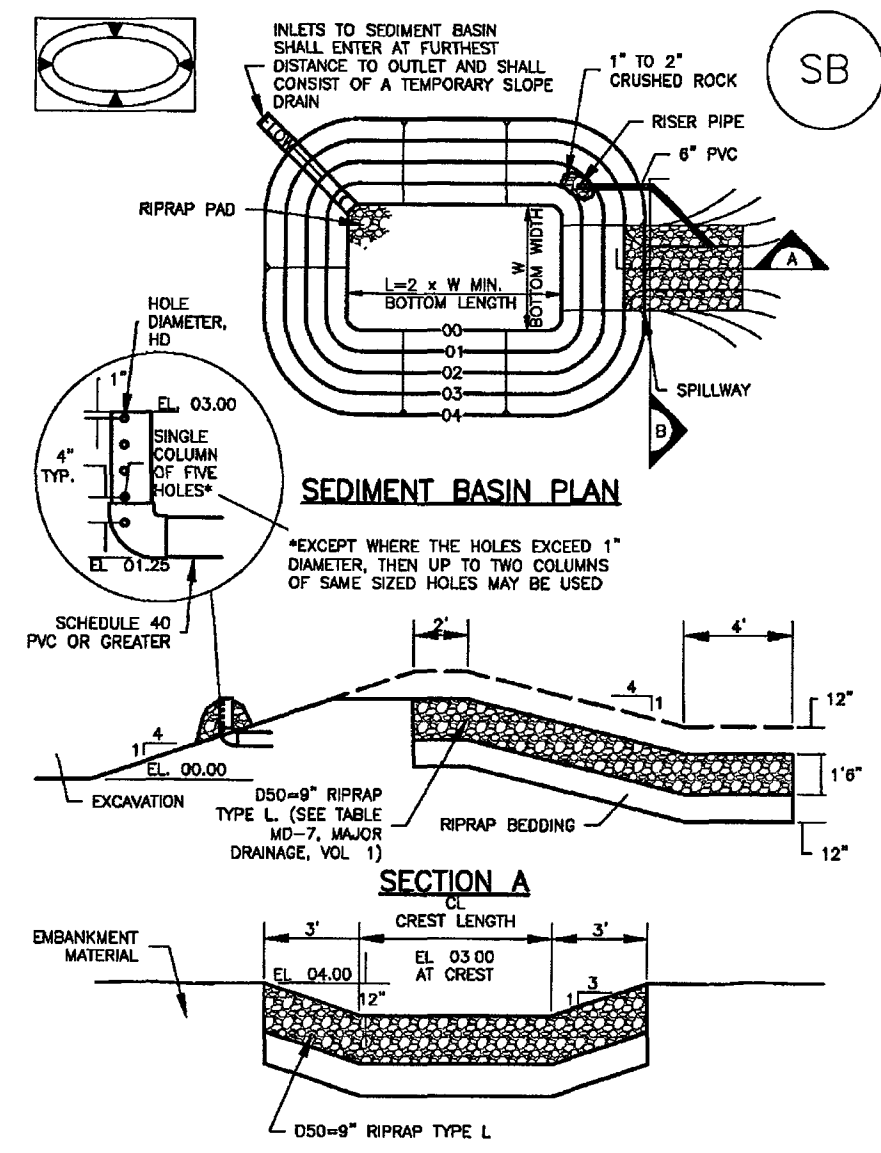
IP-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 August 2013

Straw Bale Barrier (SBB) SC-3



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

Sediment Basin (SB) SC-7



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

Sediment Basin (SB) SC-7

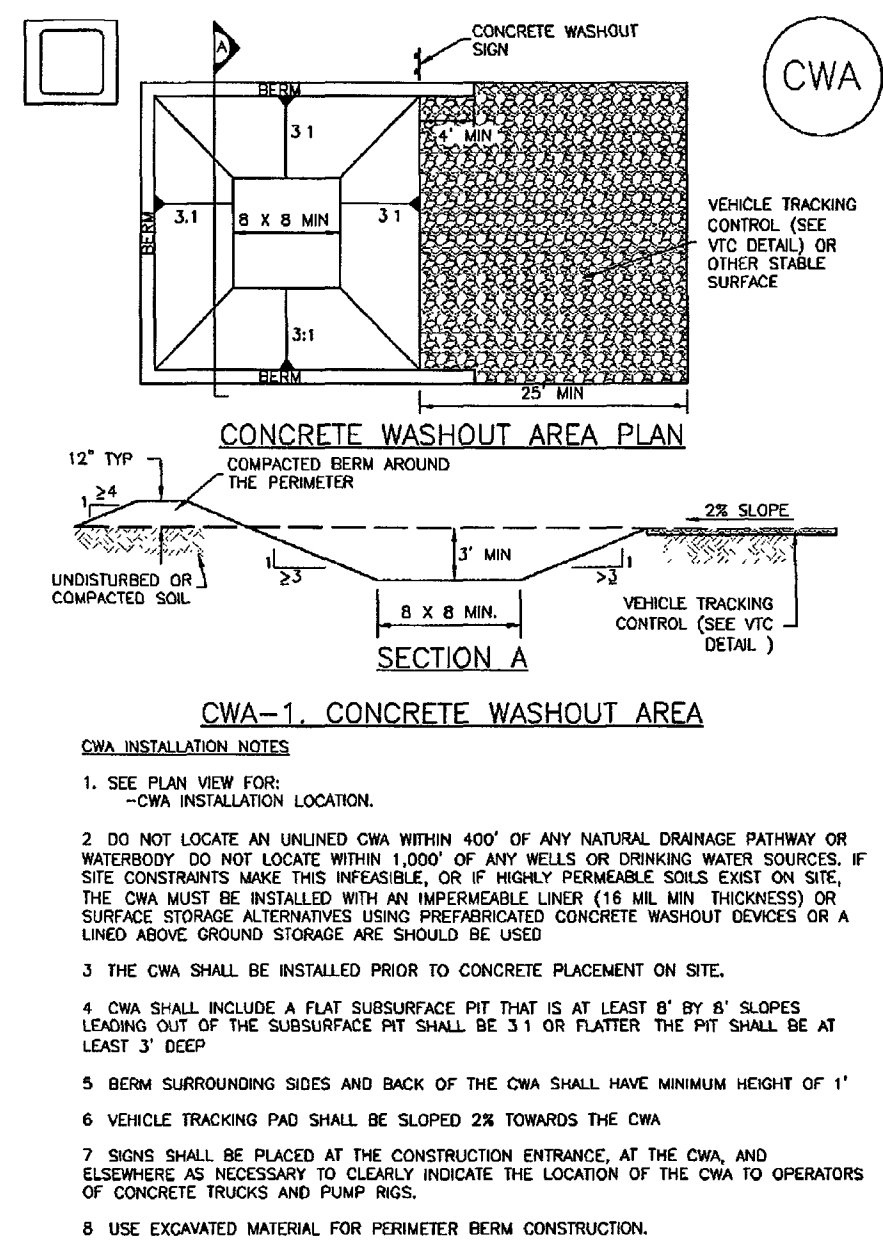
TABLE SB-1 SIZING INFORMATION FOR STANDARD SEDIMENT BASIN

Upstream Drainage Area (rounded to nearest acre), (ac)	Basin Bottom Width (W), (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (HD), (in)
1	12.5	2	9 1/2
2	21	3	11 1/4
3	28	4	12 1/2
4	33 1/2	5	13 1/2
5	38 1/2	6	14 1/2
6	43 1/2	7	15 1/2
7	47 1/2	8	16 1/2
8	51	9	17 1/2
9	55	10	18 1/2
10	58 1/2	11	19 1/2
11	61	12	20 1/2
12	64	13	21 1/2
13	67 1/2	14	22 1/2
14	70 1/2	15	23 1/2
15	73 1/2	16	24 1/2

- SEDIMENT BASIN INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
 - LOCATION OF SEDIMENT BASIN
 - TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN)
 - FOR STANDARD BASIN, BOTTOM WIDTH W, CREST LENGTH CL, AND HOLE DIAMETER, HD
 - FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT H, NUMBER OF COLUMNS N, HOLE DIAMETER HD AND PIPE DIAMETER D
 - FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
 - SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON BASINS AS A STORMWATER CONTROL.
 - DRAINAGE MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
 - DRAINAGE MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
 - PIPE SCH 40 OR GREATER SHALL BE USED.
 - THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR DRAINAGE AREAS GREATER THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR DRAINAGE AREAS GREATER THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR DRAINAGE AREAS GREATER THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR DRAINAGE AREAS GREATER THAN 15 ACRES.

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

Concrete Washout Area (CWA) MM-1



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

Concrete Washout Area (CWA) MM-1

- 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 DUKIGAN COUNTY, COLORADO AND THE CITY OF PUEBLO, COLORADO, NOT AVAILABLE IN AUTOCAD)
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM IFCED 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

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

REVIEW:

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

29794

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

DATE 8.21.19

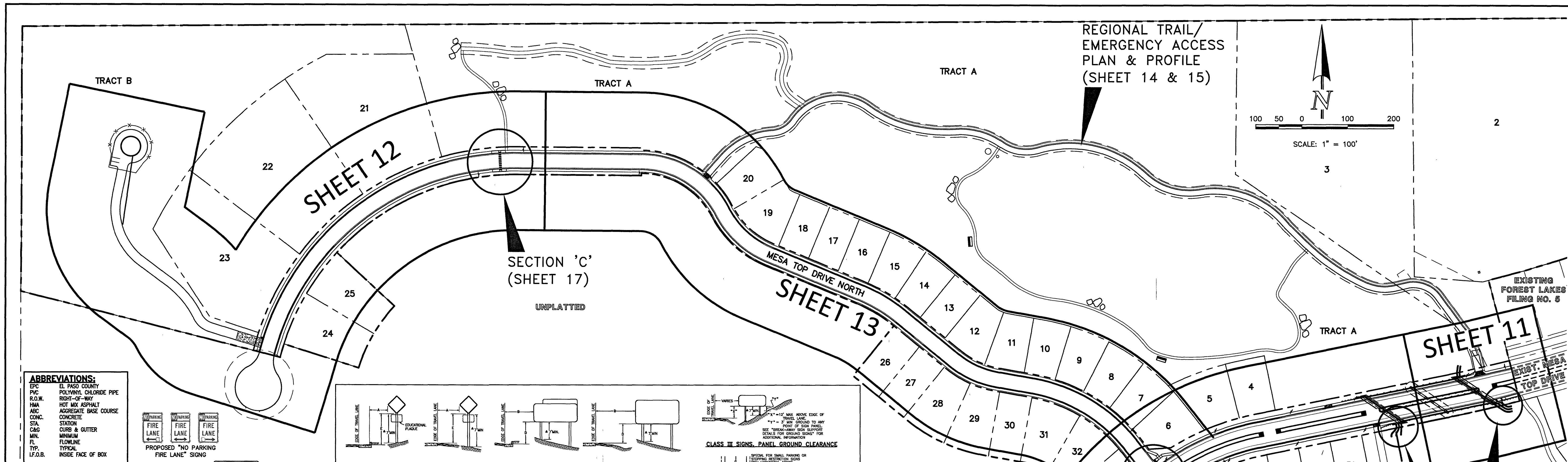
CLASSIC CONSULTING

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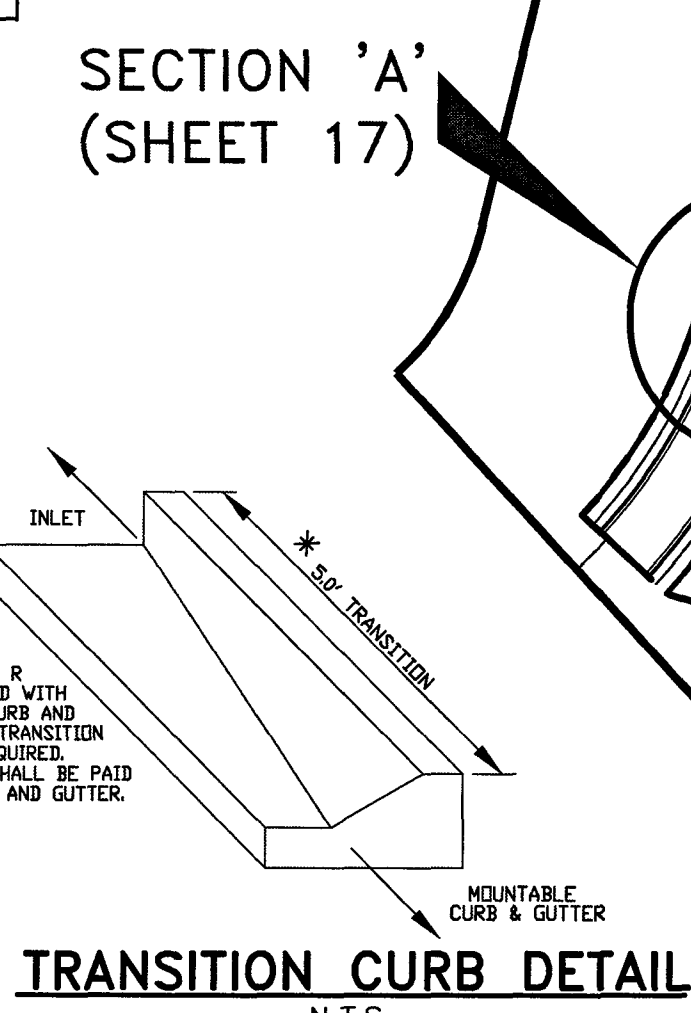
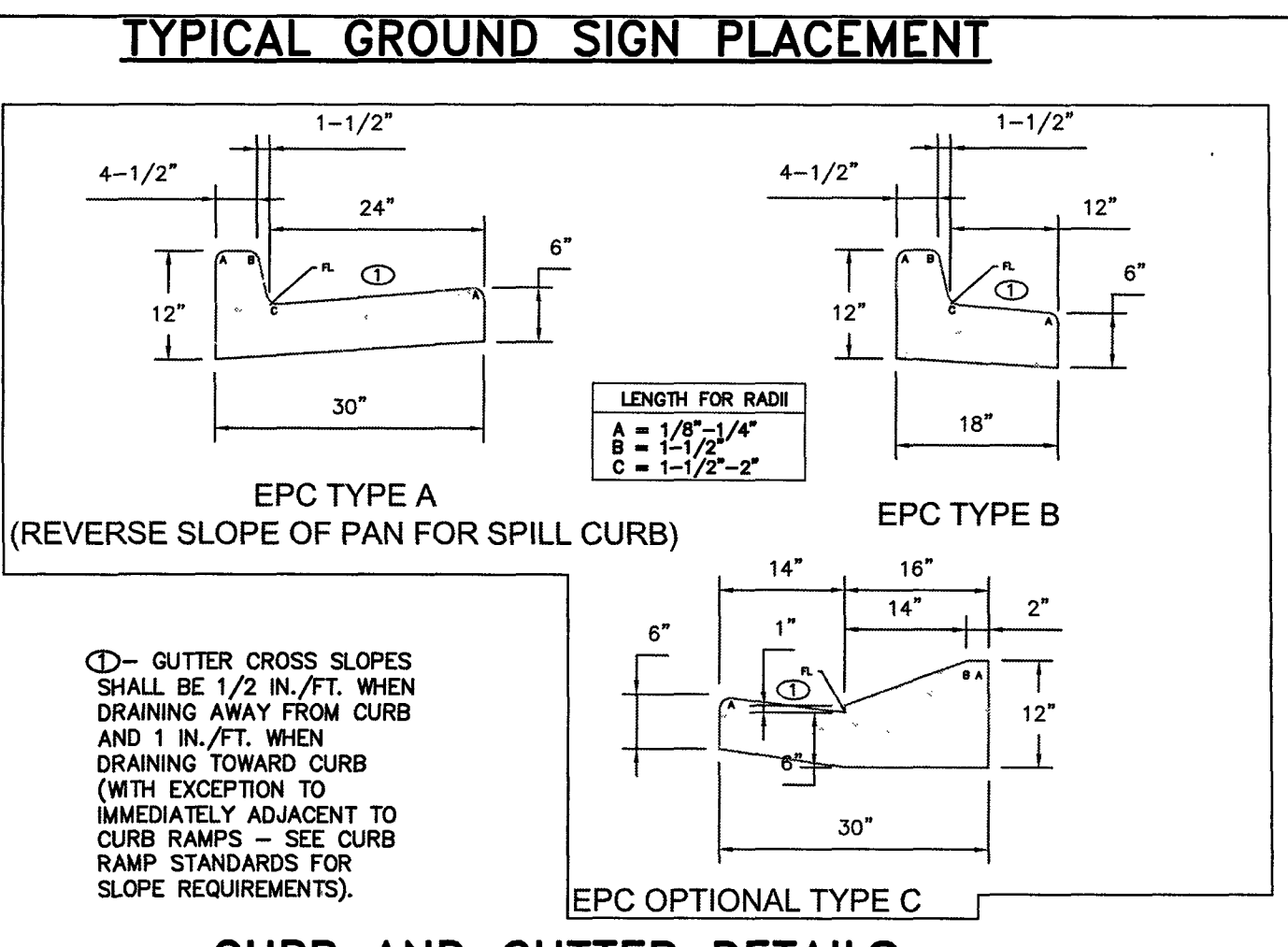
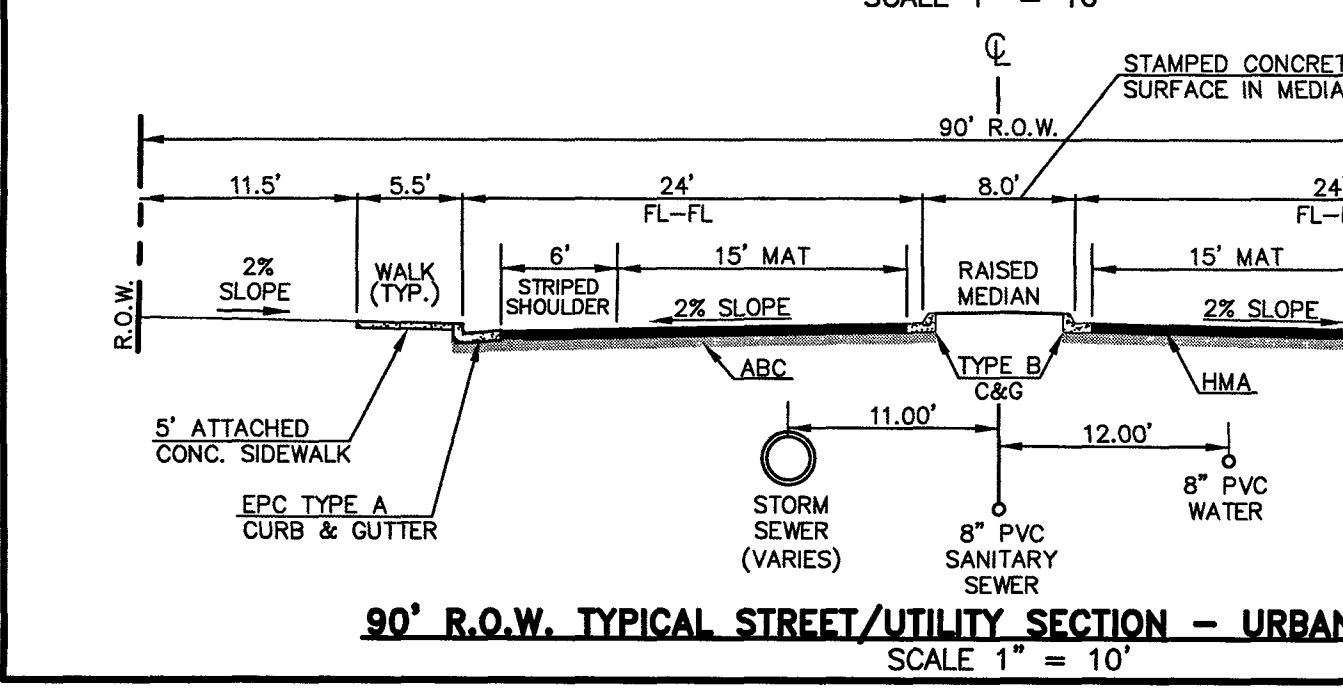
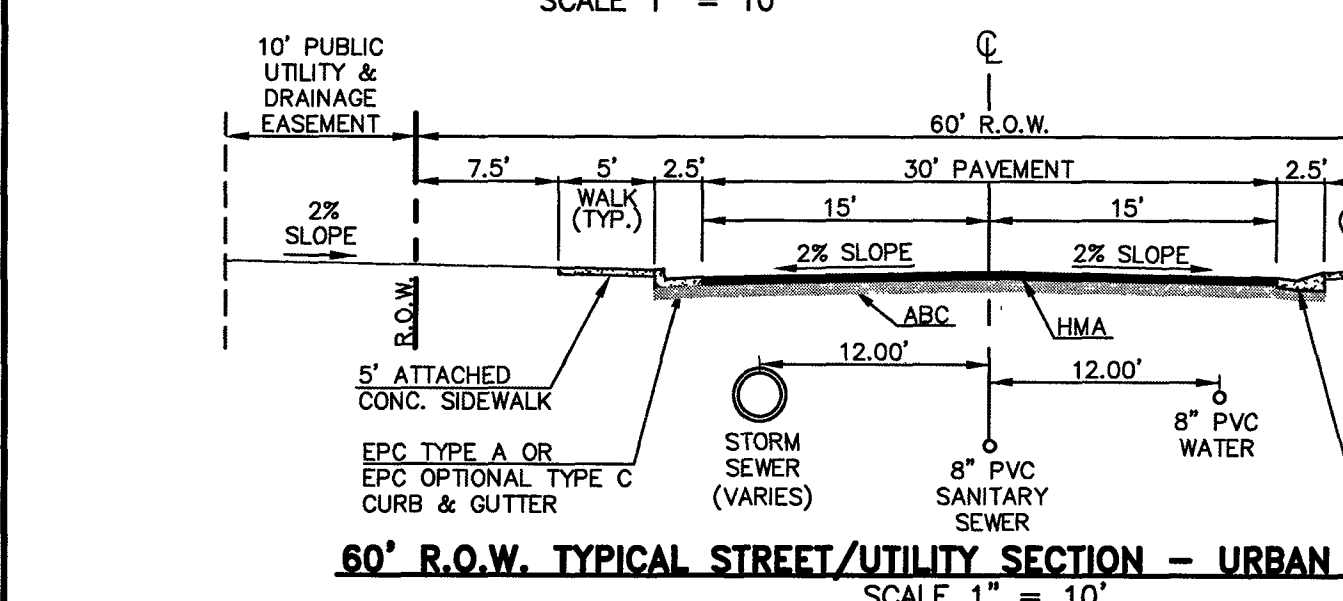
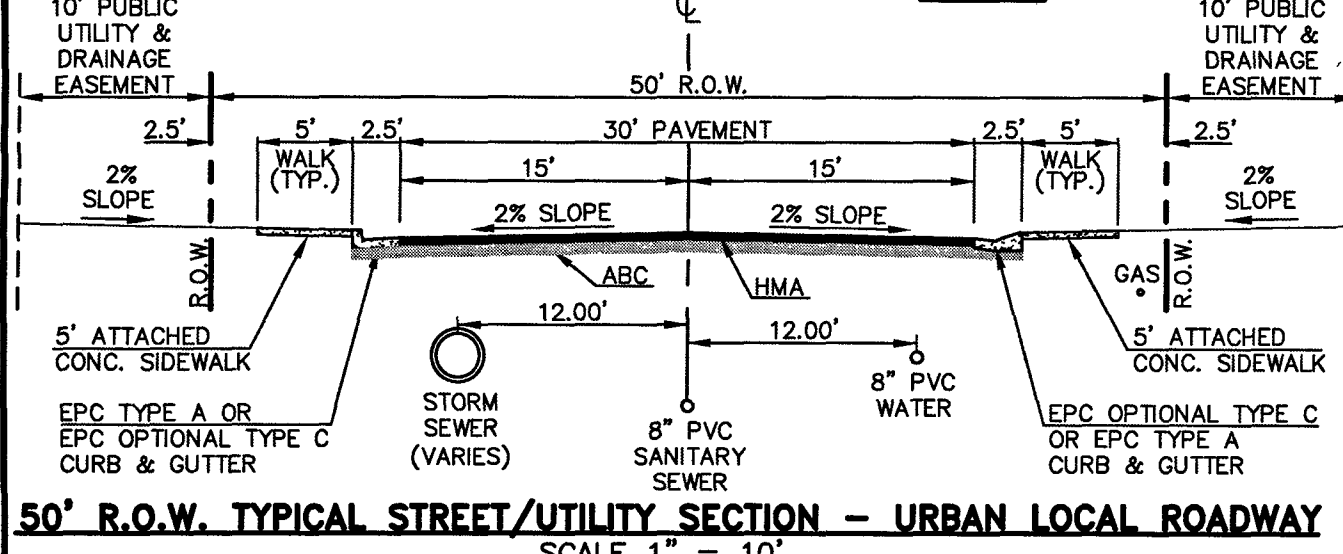
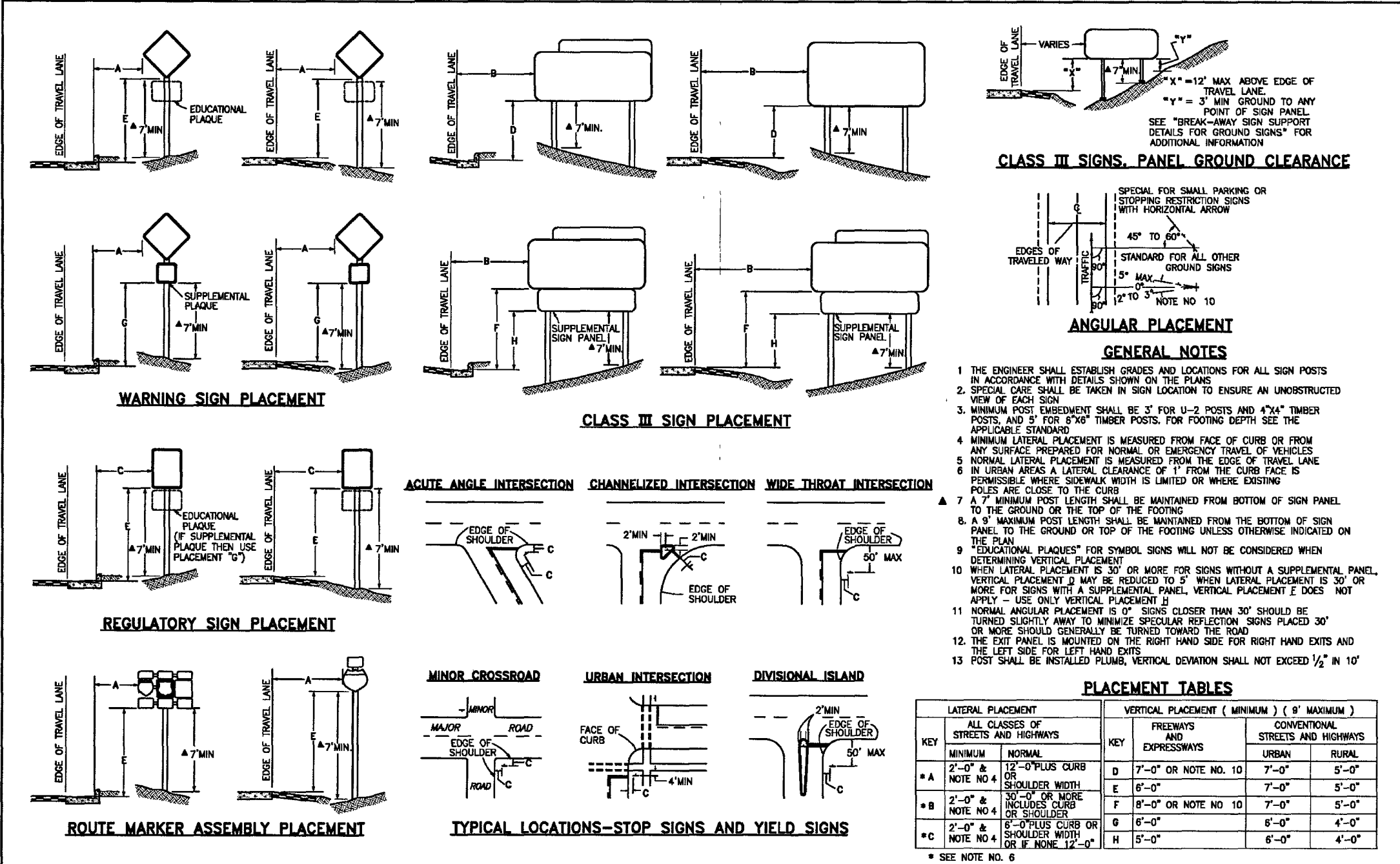
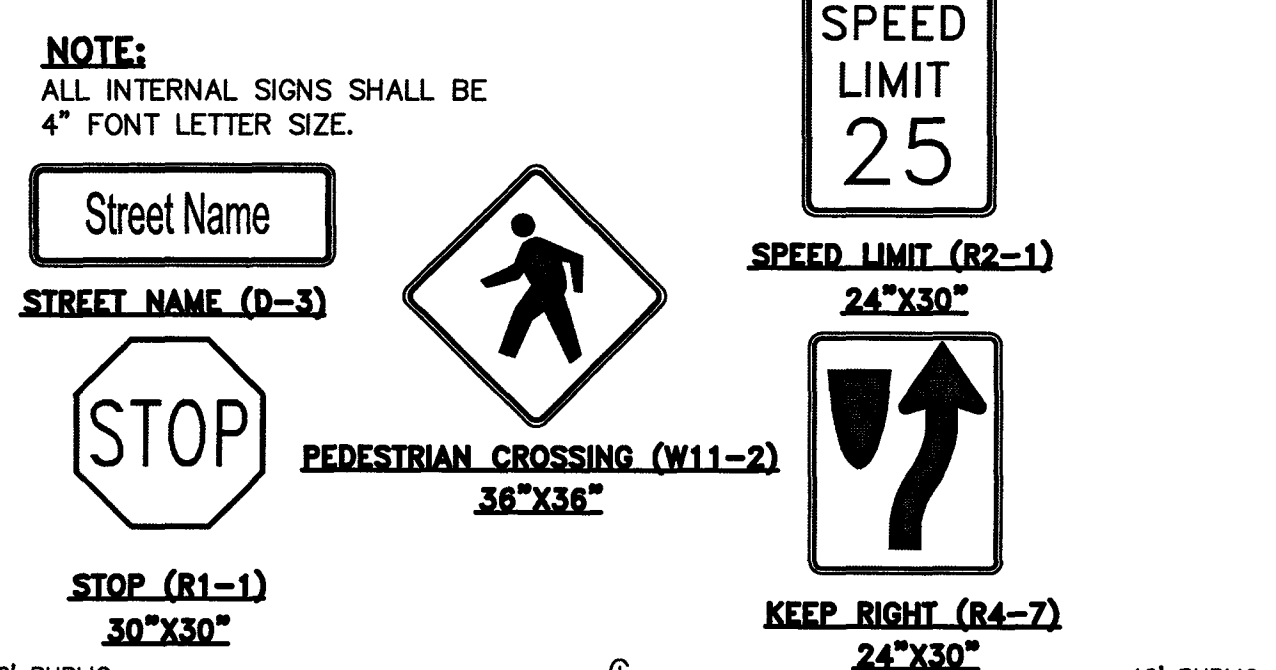
**FOREST LAKES FILING NO. 6
CONSTRUCTION PLANS
GRADING AND EROSION CONTROL PLAN
EROSION CONTROL DETAILS**

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



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



CURB AND GUTTER DETAILS

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NO.	REVISION	DATE

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Kyle R. Campbell

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

DATE: 08/04/2020

CLASSIC CONSULTING

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

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

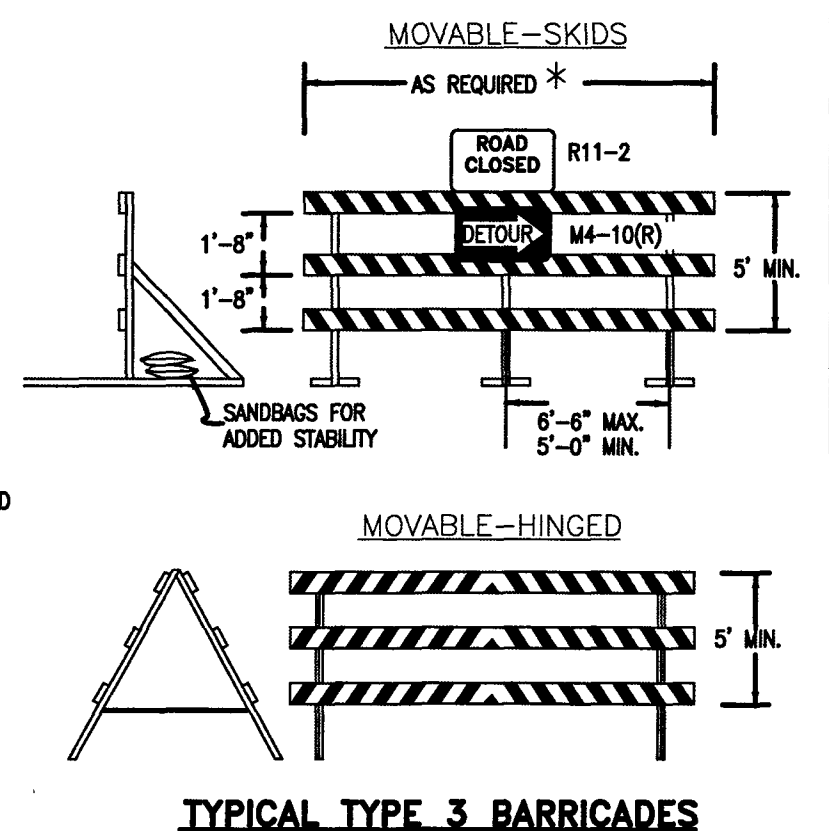
PCD FILE # SF-20-027

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

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

RAIL LENGTH TABLE *

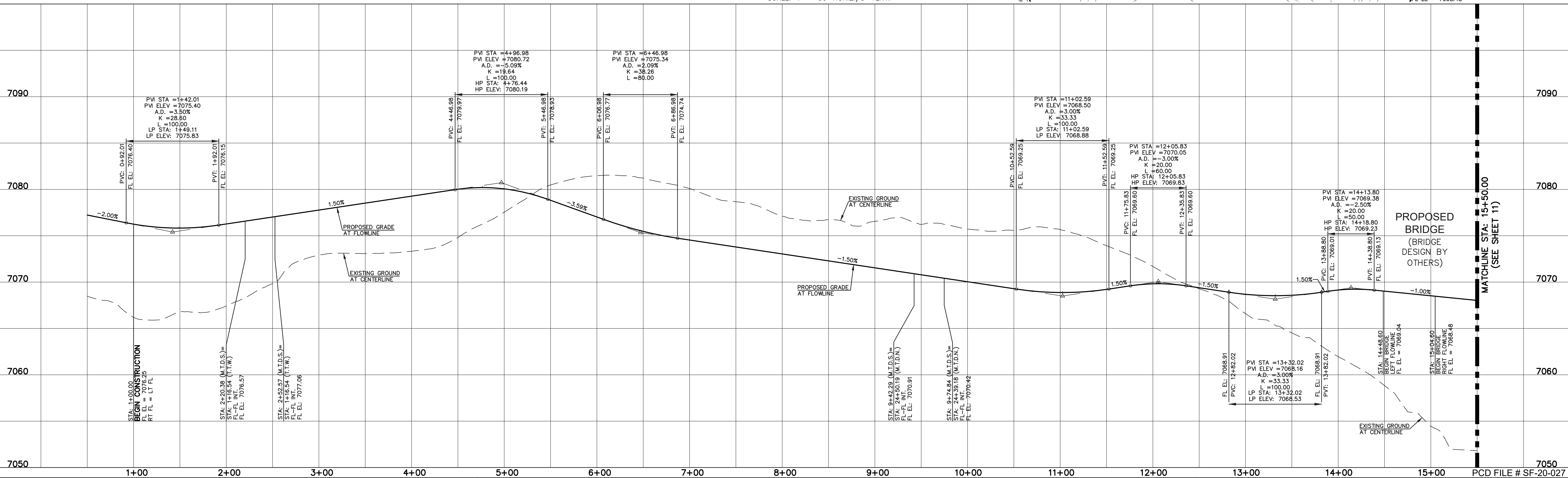
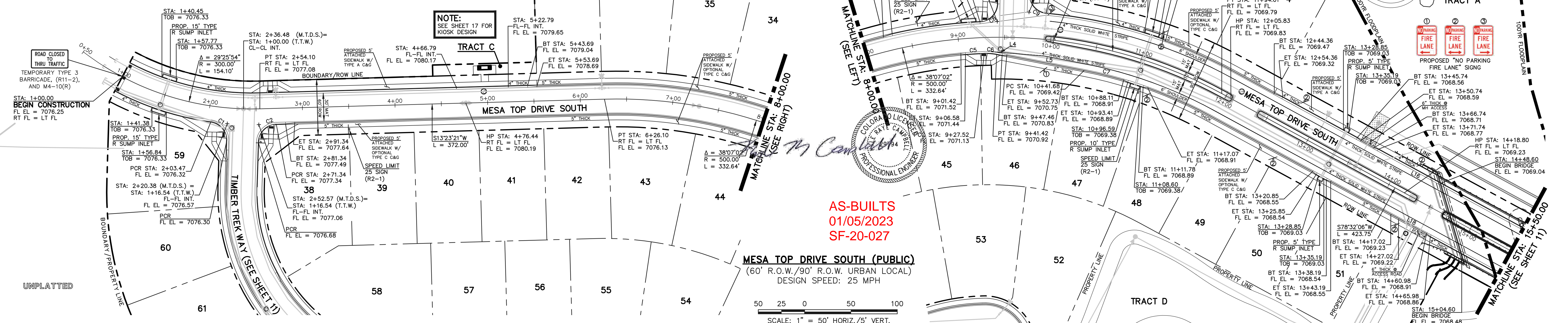
TYPE	FIXED	MOVABLE	LENGTH
F - A	M - A	8' - 14'	
F - B	M - B	15' - 24'	
F - C	M - C	25' - 35'	
F - D	M - D	> 35'	



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

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

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



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

WALK CONSTRUCTION:

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

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS

811

UTILITY NOTIFICATION CENTER OF COLORADO

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NO.	REVISION	DATE

REVIEW:

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

Kyle R. Campbell

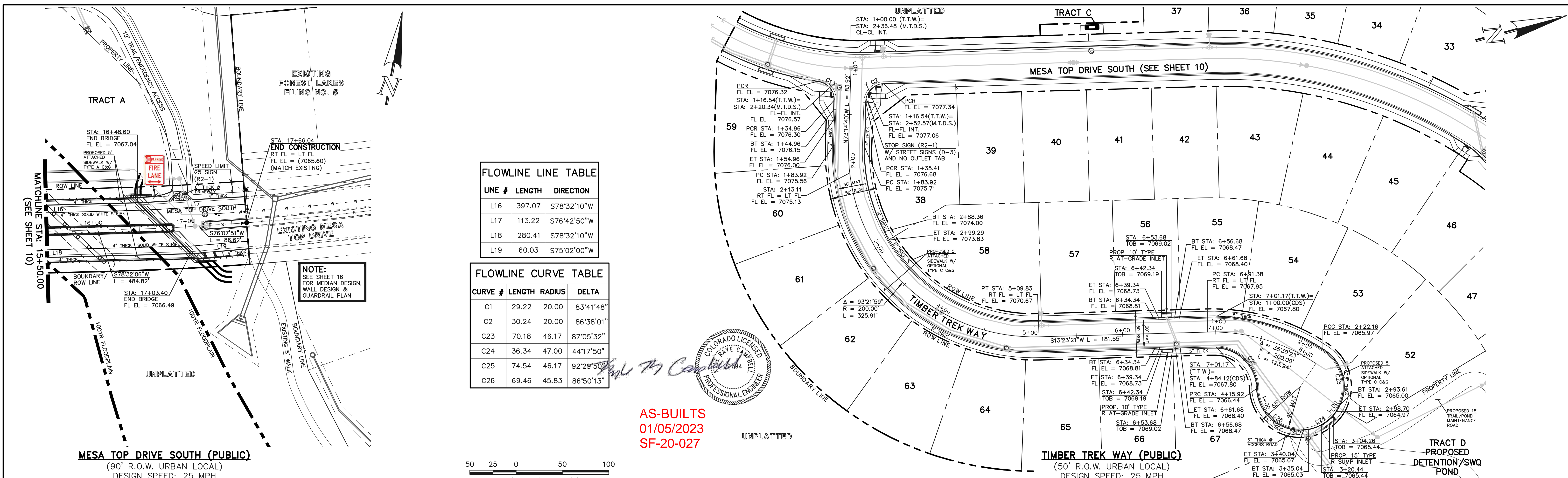
KYLE R. CAMPBELL, COLORADO P.E. #28794



FOREST LAKES FILING NO. 6
PUBLIC STREET IMPROVEMENT PLAN
MESA TOP DRIVE SOUTH
STA. 1+00.00 TO STA. 15+50.00

DESIGNED BY: MAL SCALE: DATE: 06/04/2020
DRAWN BY: MES (H) 1" = 50' SHEET 10 OF 30
CHECKED BY: (V) 1" = 5' JOB NO. 1175.60

N:\117560\DRAWINGS\CONSTRUCTION\STREETS\10-117560-9-02.dwg, 5/6/2021, 12:46:58 PM, 1:1

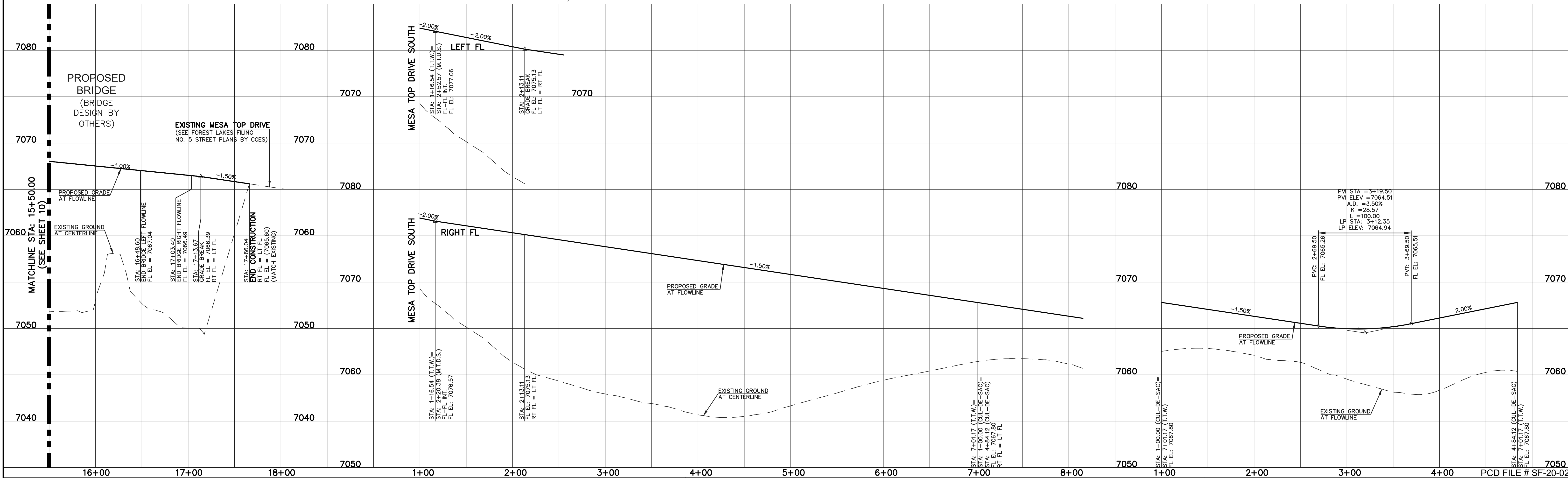
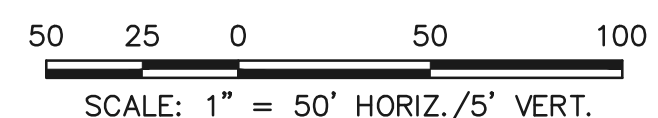


FLOWLINE LINE TABLE

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

FLOWLINE CURVE TABLE

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



STREET ABBREVIATION INDEX:

M.T.D.N.	MESA TOP DRIVE NORTH
M.T.D.S.	MESA TOP DRIVE SOUTH
T.T.W.	TIMBER TREK WAY

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REVIEW:

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Kyle R. Campbell

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

DATE: 06/04/2020



FOREST LAKES FILING NO. 6 PUBLIC STREET IMPROVEMENT PLAN

MESA TOP DRIVE SOUTH STA: 15+50.00 - END TIMBER TREK WAY/TIMBER TREK CUL-DE-SAC

DESIGNED BY	MAL	SCALE	DATE	06/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET	11 OF 30
CHECKED BY	(V) 1" = 5'	JOB NO.	1175.60	

N:\117560\DRAWINGS\CONSTRUCTION\STREETS\11-117560-51-03.dwg, 5/9/2021 12:53:59 PM, 1:1

Rock Chute Design Data

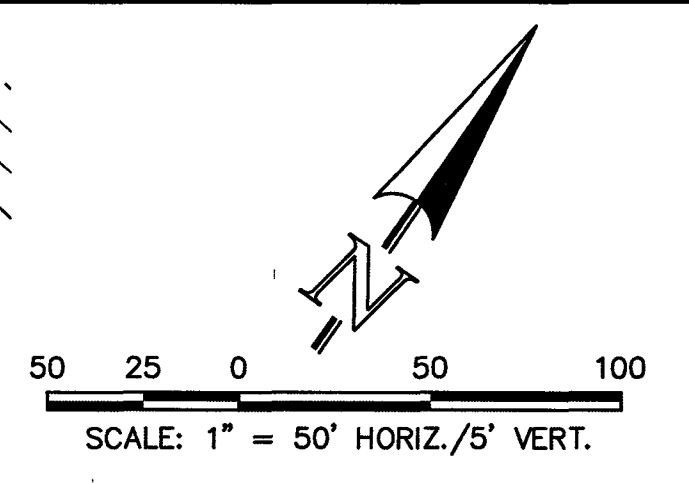
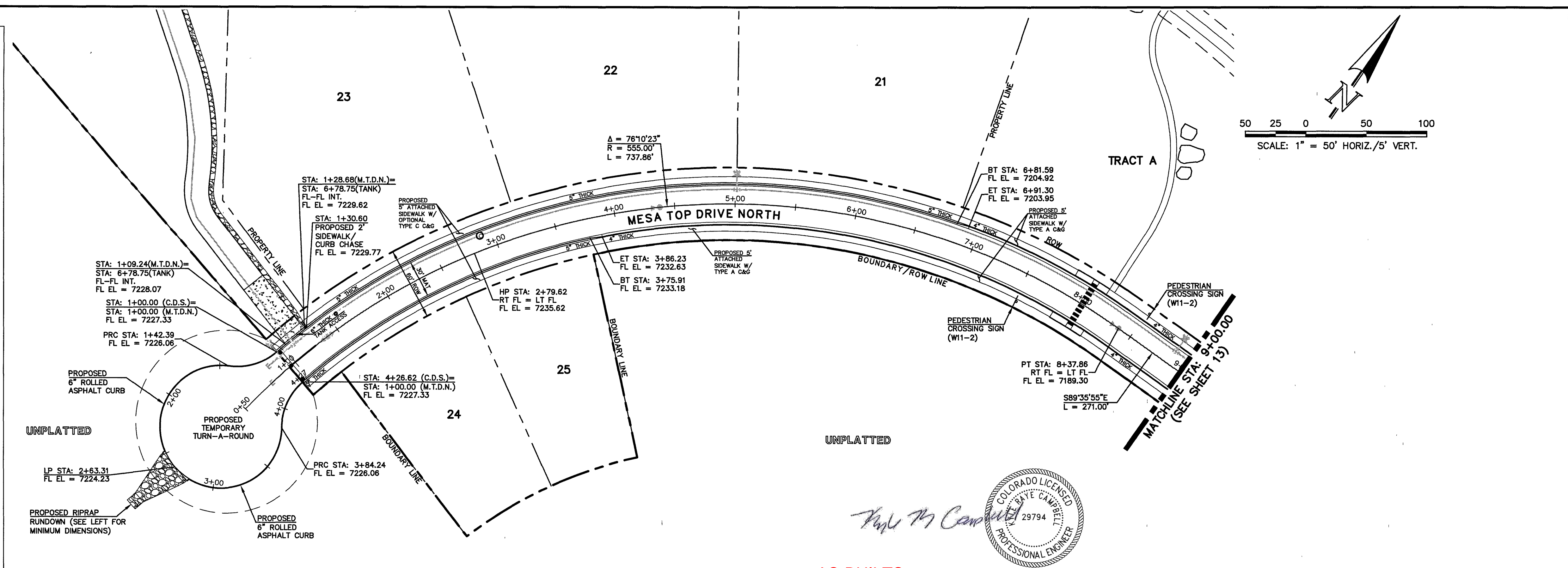
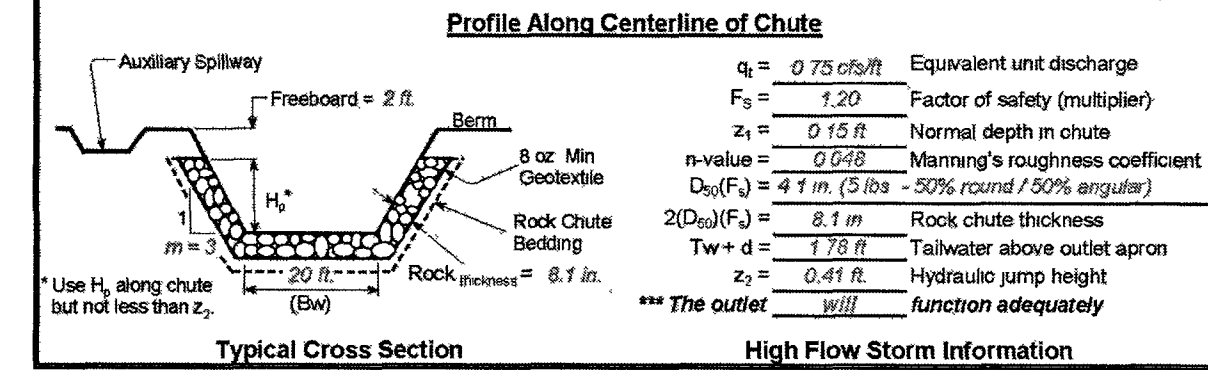
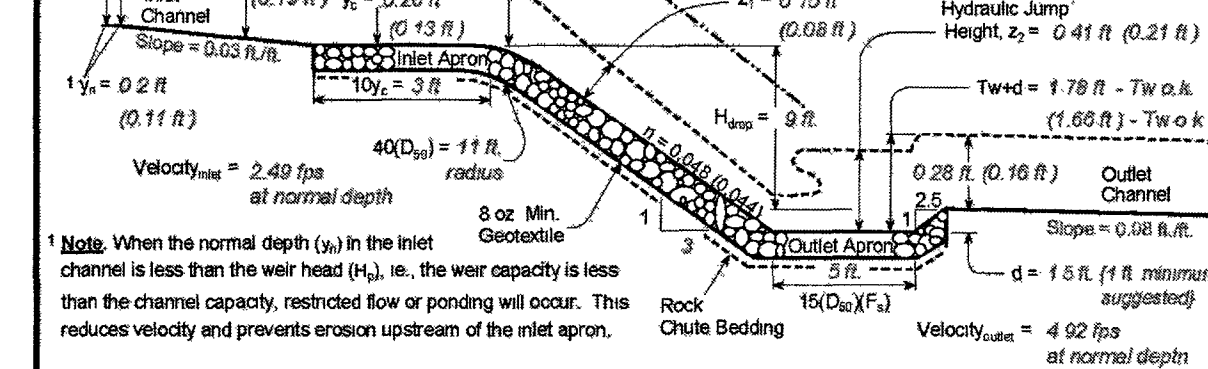
(Version 4.01 - 04/23/03, Based on Design of Rock Chutes by Robinson, Rice, Kadavy, ASAE, 1998)
 Project: Forest Lakes Filing 6 - End of Road County: El Paso
 Designer: Matt Larson Checked by: _____
 Date: 12/20/2023

Input Channel Geometry

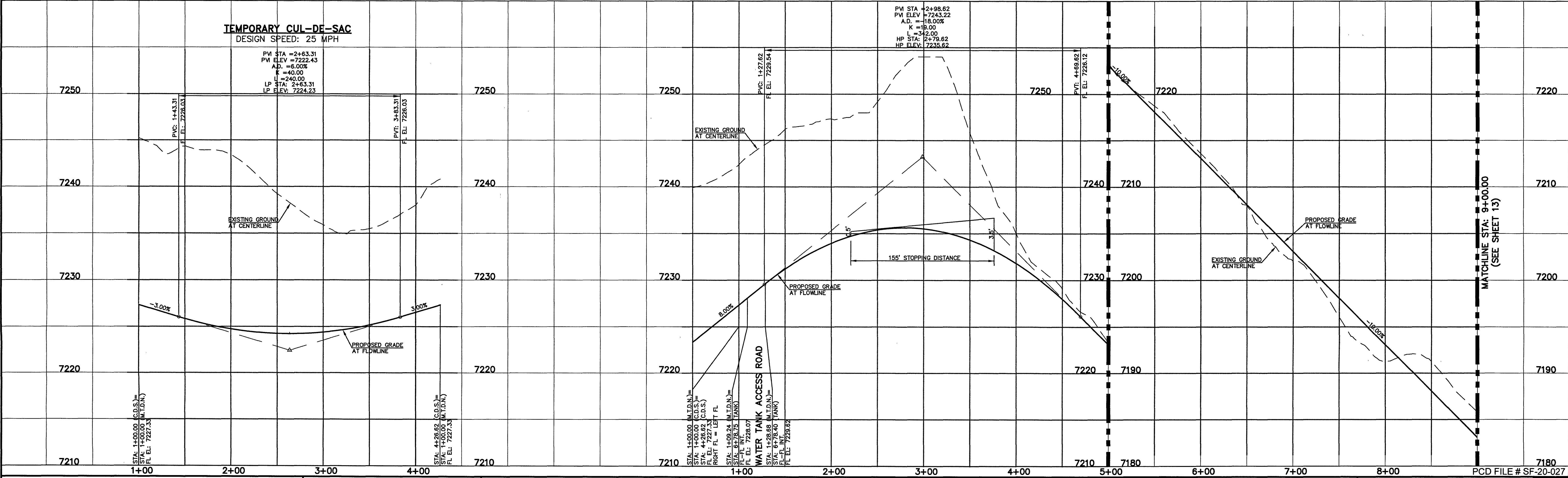
Channel	Inlet Channel	Chute	Outlet Channel
Bw = 30.0 ft	Bw = 20.0 ft	Bw = 10.0 ft	Bw = 10.0 ft
Side slope = 3.0 (m:1)	Factor of safety = 1.20 (F _s)	Side slope = 3.0 (m:1)	Side slope = 3.0 (m:1)
n-value = 0.025	Side slope (3) = 0.333 ft/ft → 2.8:1 max.	n-value = 0.025	n-value = 0.025
Bed slope = 0.0300 ft/ft	Bed slope (3) = 0.333 ft/ft → 2.8:1 max.	Bed slope = 0.0300 ft/ft	Bed slope = 0.0300 ft/ft
Freeboard = 2.0 ft	Outlet apron depth, d = 1.5 ft	Base flow = 0.0 cfs	

Design Storm Data (Table 2, NRCPS Grade Stabilization Structure No. 410)

Drainage area = 4.0 acres Rainfall = 0.31 in @ 1-hr (0.31")
 Notes: The total required capacity is routed through the chute (principal spillway) or in combination with an auxiliary spillway.
 Apron elev. — Inlet = 7224.5 ft. — Outlet = 7214.0 ft. — (H_{max} = 9 ft.)
 Chute capacity = Q10-year Total capacity = Q25-year 24-hour storm with a 3-5 inch rainfall.
 Q₁₀ = 15.2 cfs High flow storm through chute → Tw (ft) = Program
 Q₂₅ = 5.6 cfs Low flow storm through chute → Tw (ft) = Program



TEMPORARY CUL-DE-SAC
 DESIGN SPEED: 25 MPH



STREET ABBREVIATION INDEX:

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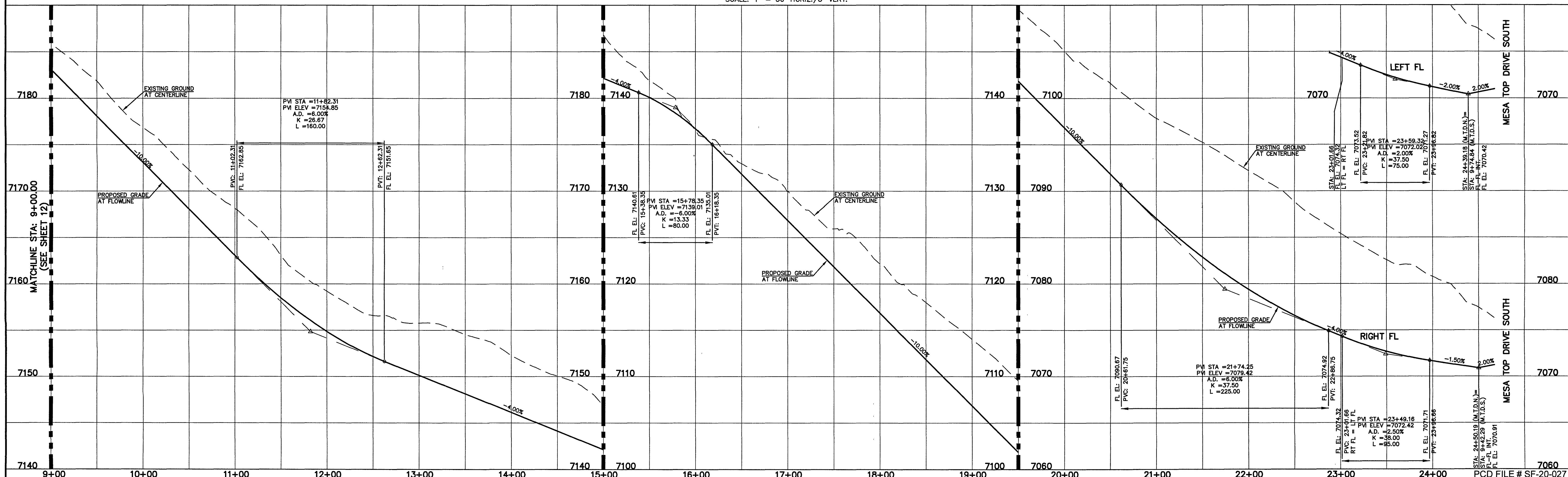
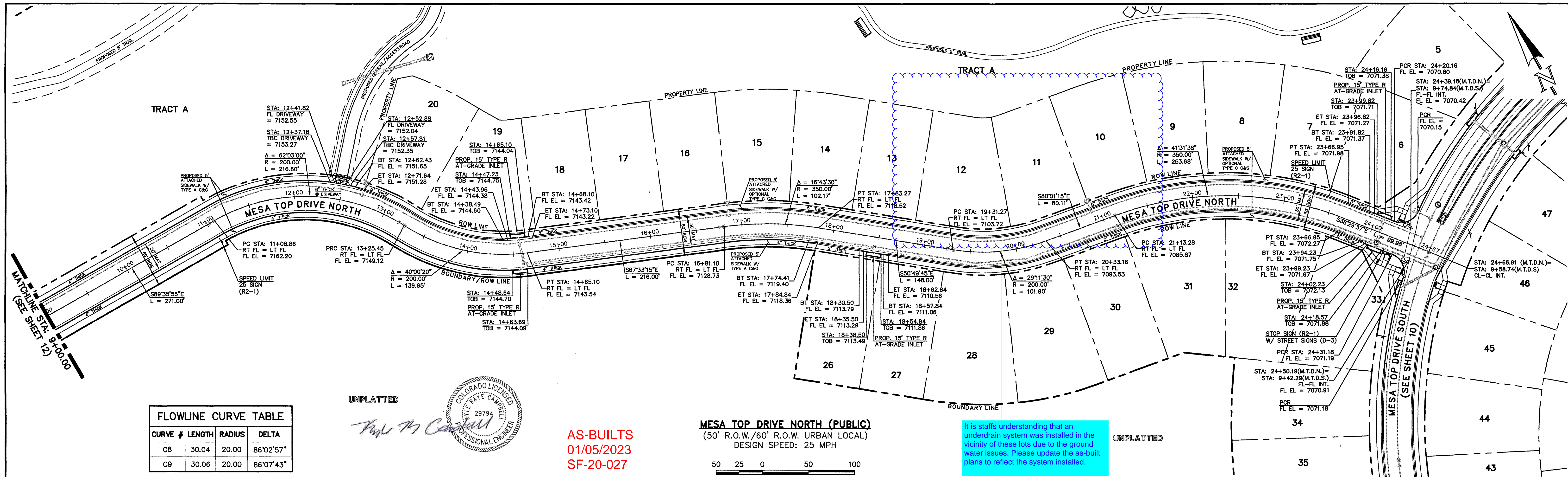
KYLE R. CAMPBELL, COLORADO, P.E. #29794
 DATE: 01/05/2023



FOREST LAKES FILING NO. 6
 PUBLIC STREET IMPROVEMENT PLAN

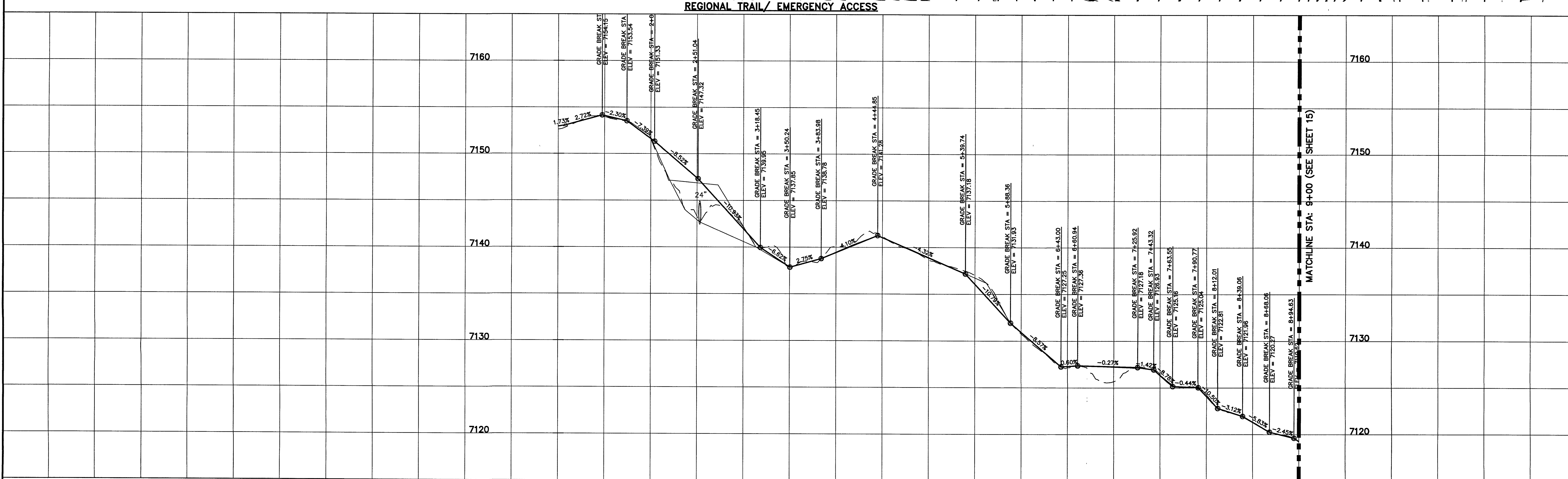
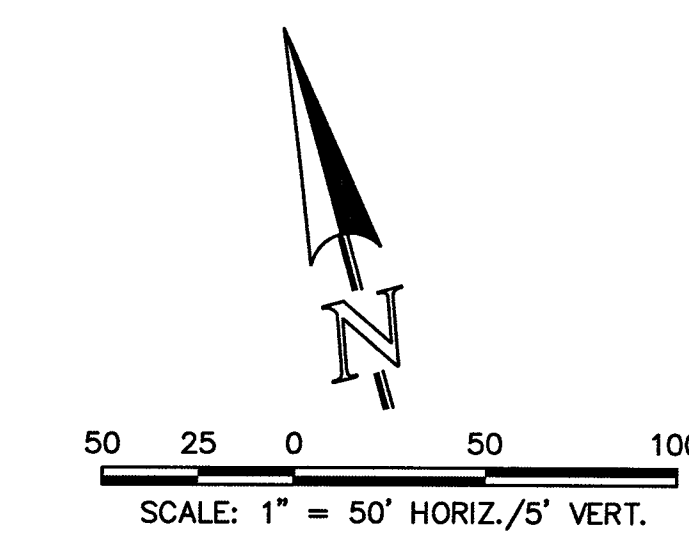
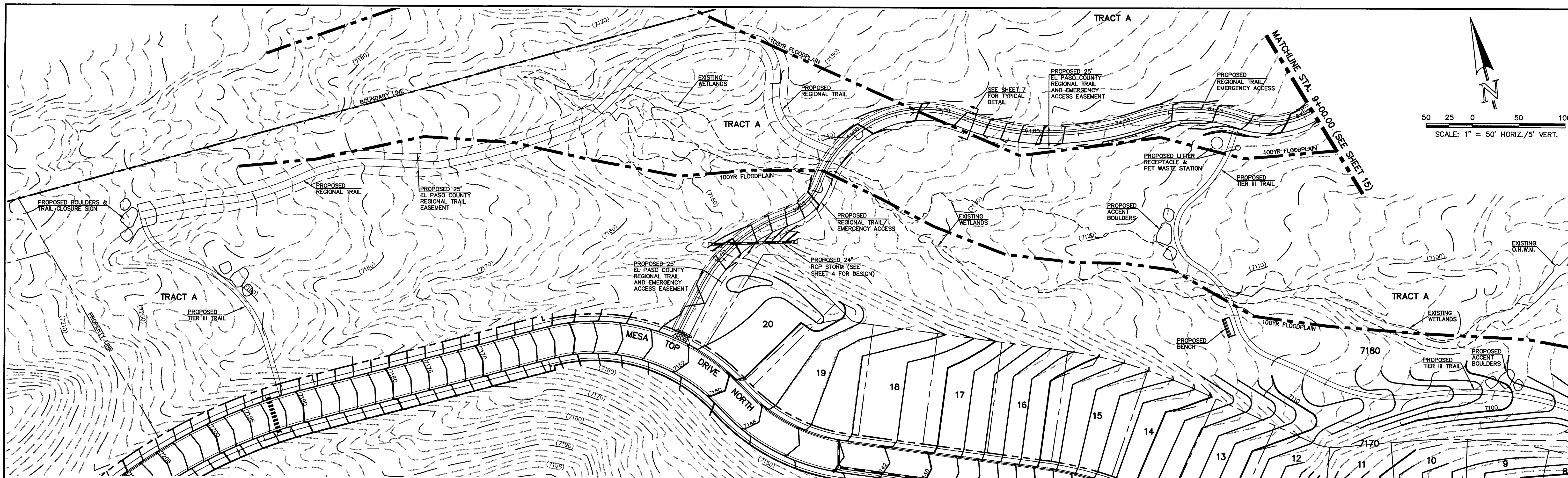
MESA TOP DRIVE NORTH STA: 1+00 - STA: 9+00


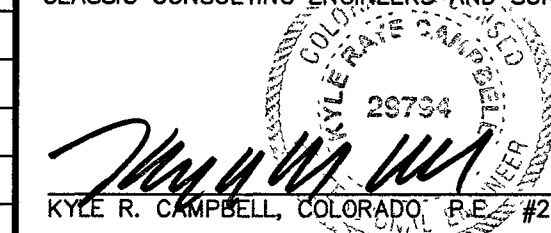

DESIGNED BY	MAL	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET	12 OF 30
CHECKED BY	(V) 1" = 5'	JOB NO.	1175.60	



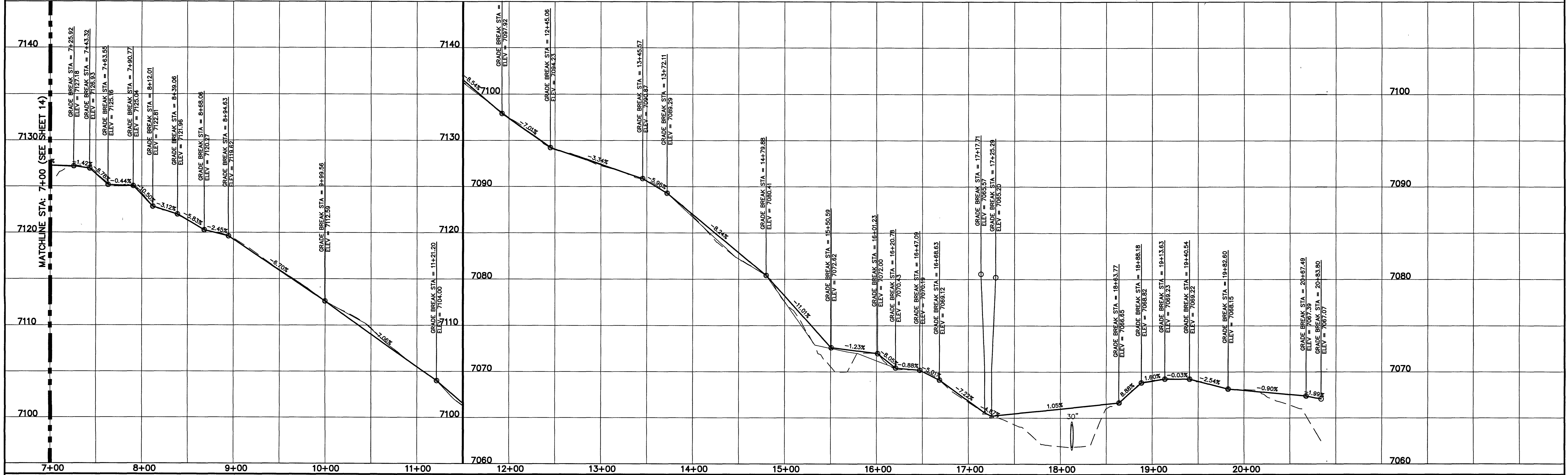
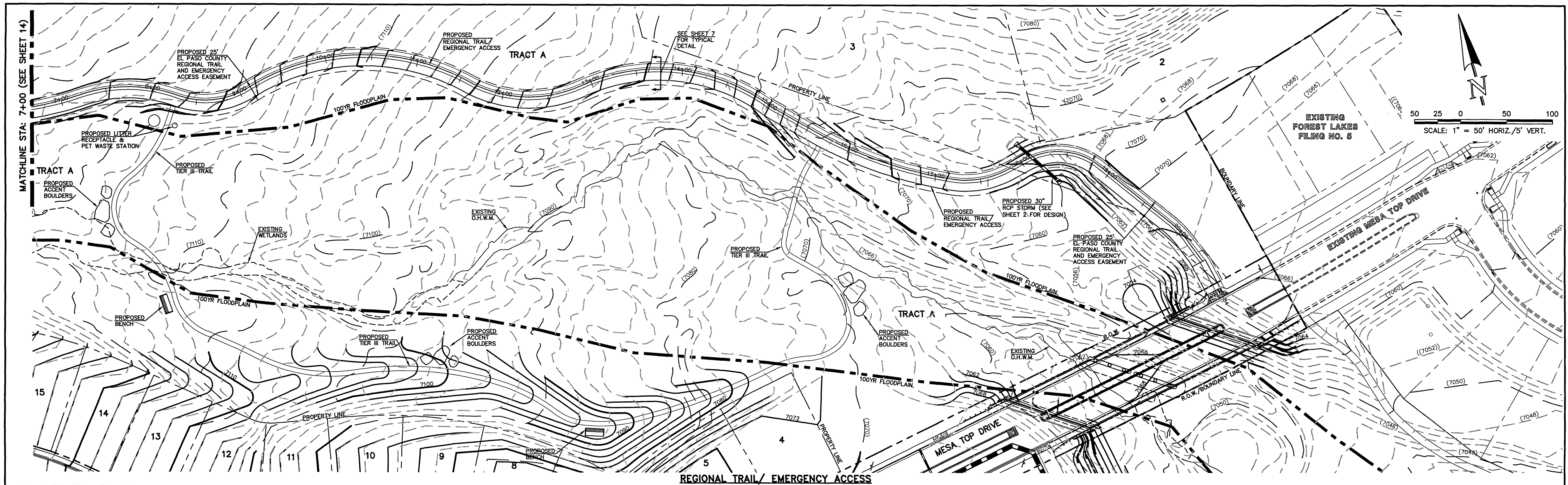
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			REVIEW: _____ DATE _____		DATE: 9/9/24		CHECKED BY: _____	

N:\17560\DRAWINGS\CONSTRUCTION\STREET\1513-117560-3-05.dwg, 4/5/2021, 2:12:10 PM, 1:1



 <p>AS-BUILTS 01/05/2023 SF-20-027</p>	<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>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>REVISION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	REVISION	DATE							<p>REVIEW:</p> <p>PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <p style="text-align: center;">  KYLE R. CAMPBELL, COLORADO, P.E. #26734 </p> <p style="text-align: right;">DATE 4/9/21</p>	 <p>CLASSIC CONSULTING</p> <p>619 N. Cascade Avenue, Suite 200 (719) 785-0790 Colorado Springs, Colorado 80903 (719) 785-0799(Fax)</p>	<p>FOREST LAKES FILING NO. 6 REGIONAL TRAIL & EMERGENCY ACCESS PLAN & PROFILE STA: 1+00-9+00</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>DESIGNED BY</td> <td>MAL</td> <td>SCALE</td> <td>DATE</td> <td>08/04/2020</td> </tr> <tr> <td>DRAWN BY</td> <td>MES</td> <td>(H) 1" = 50'</td> <td>SHEET</td> <td>14 OF 30</td> </tr> <tr> <td>CHECKED BY</td> <td>(V) 1" = 5'</td> <td>JOB NO.</td> <td colspan="2">1175.60</td> </tr> </table>	DESIGNED BY	MAL	SCALE	DATE	08/04/2020	DRAWN BY	MES	(H) 1" = 50'	SHEET	14 OF 30	CHECKED BY	(V) 1" = 5'	JOB NO.	1175.60	
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Kyle R. Campbell

COLORADO LICENSED PROFESSIONAL ENGINEER

AS-BUILTS
01/05/2023
SF-20-027

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23794

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

DATE: *4/4/21*

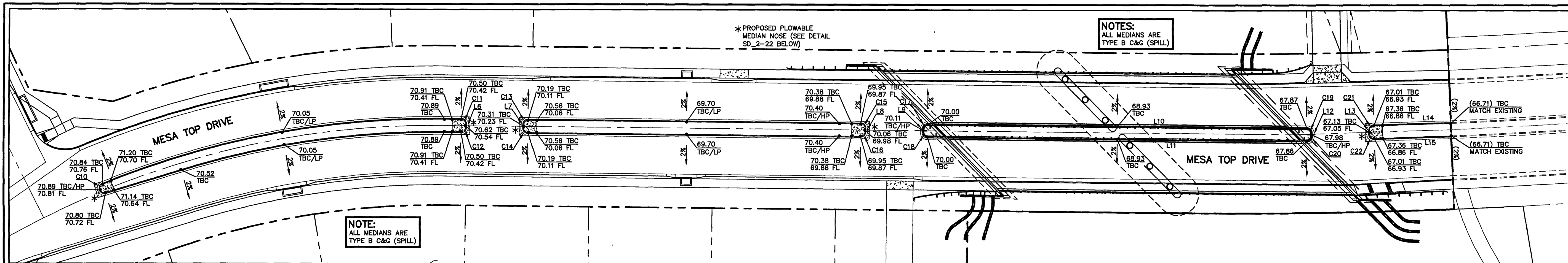
CLASSIC CONSULTING

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

(719) 785-0790
(719) 785-0793 (Fax)

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

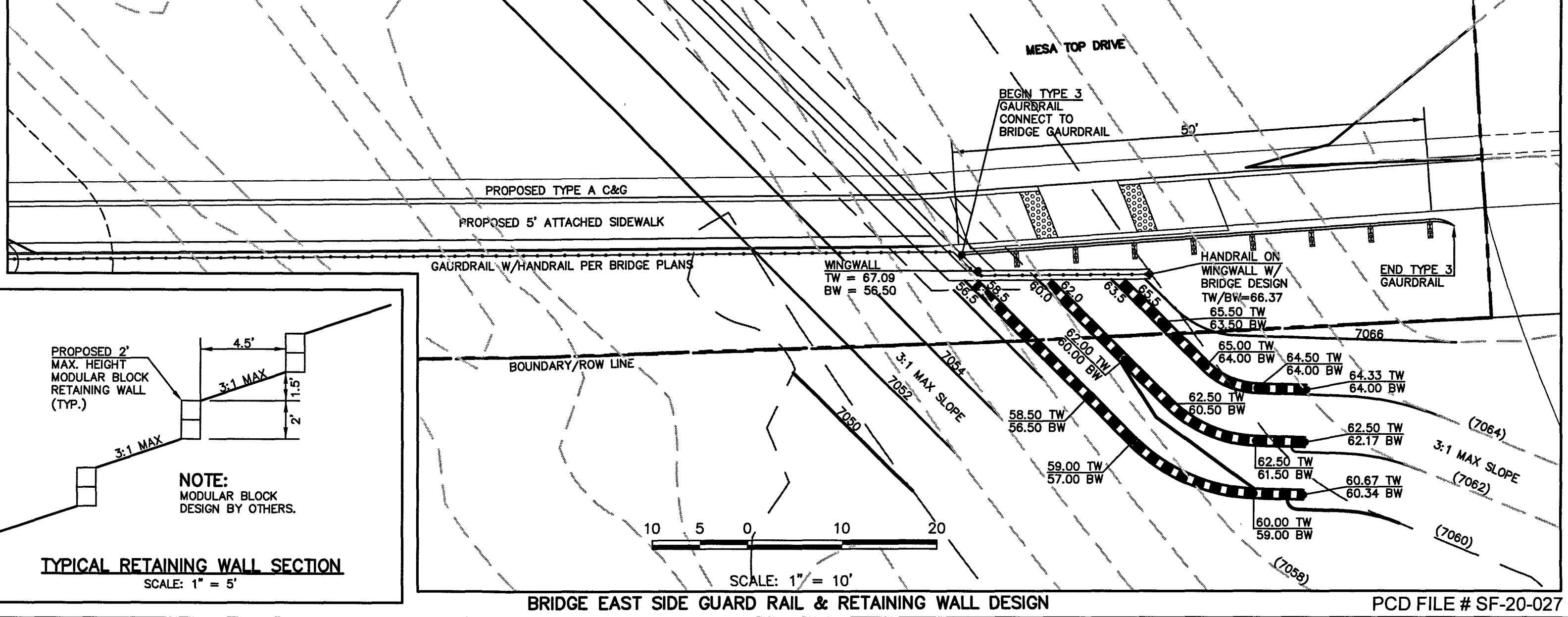
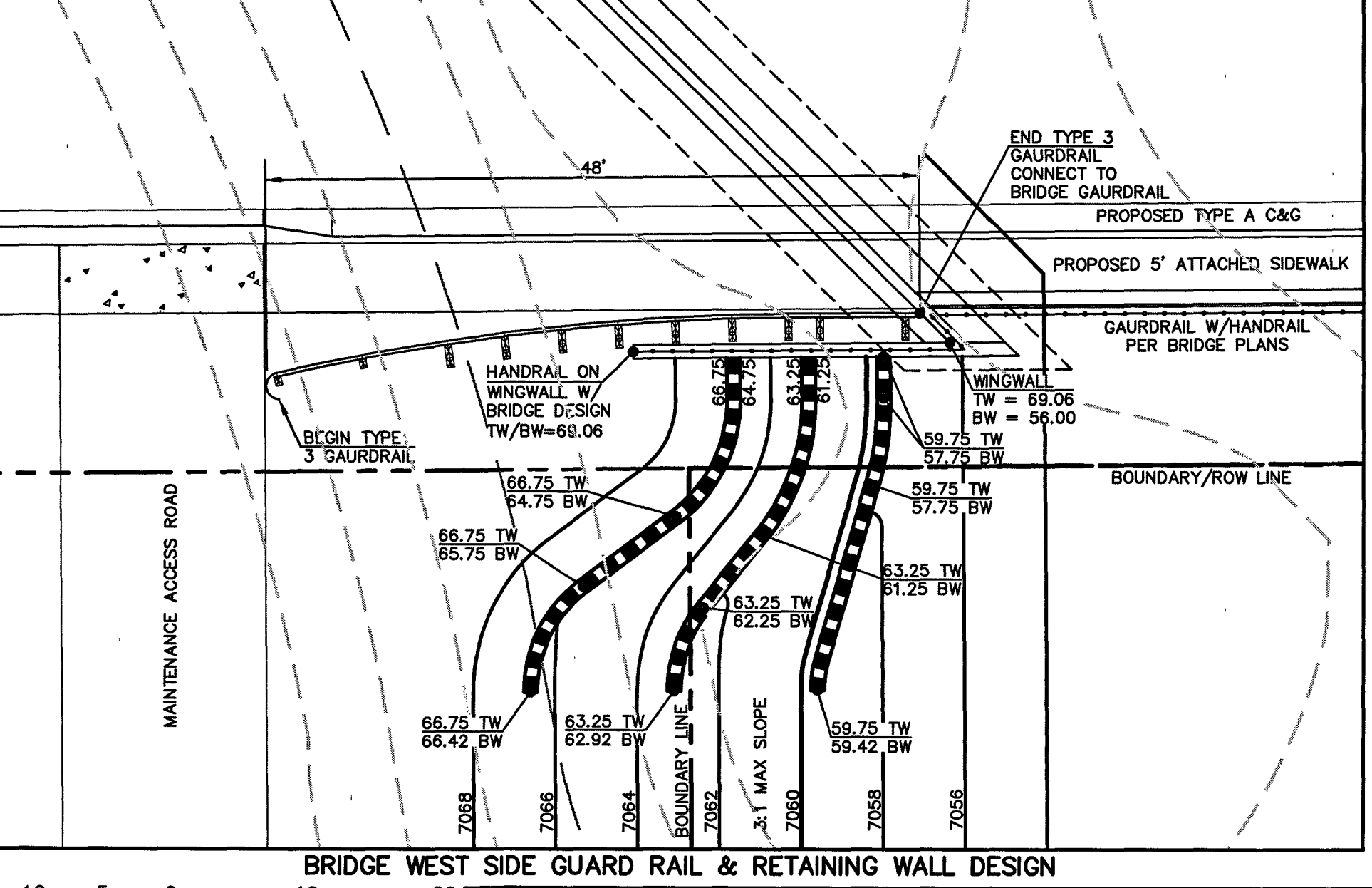
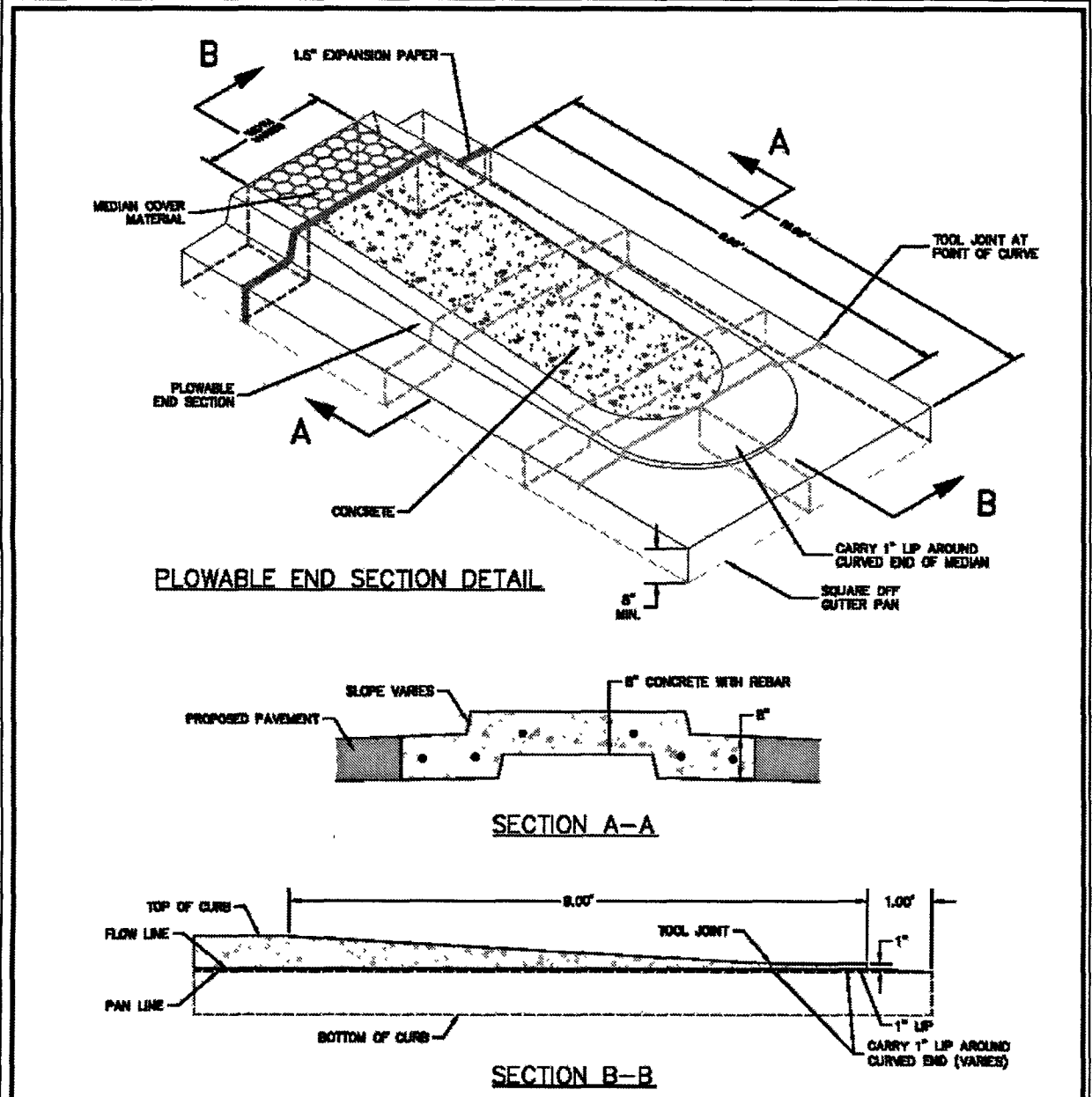
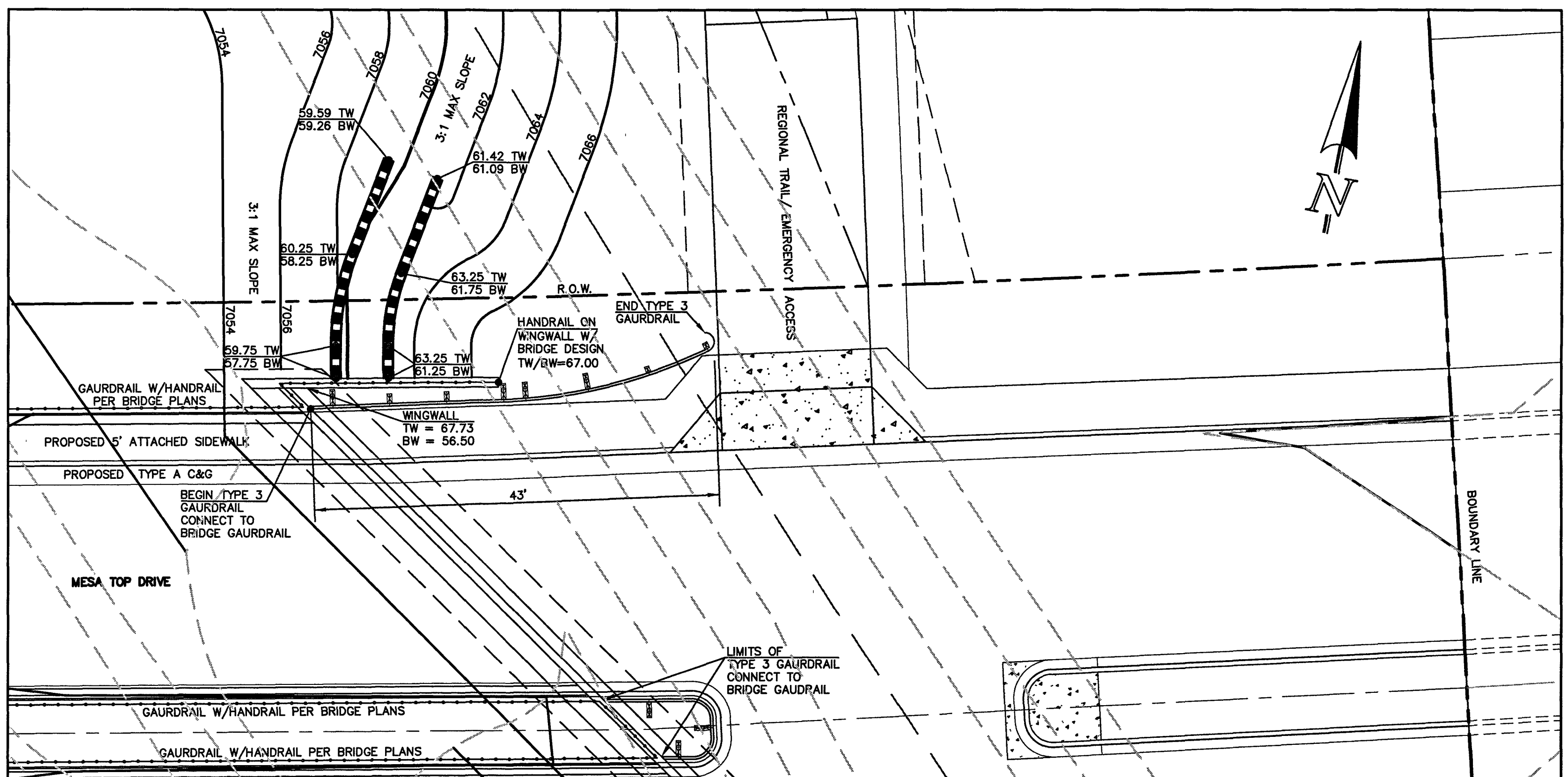
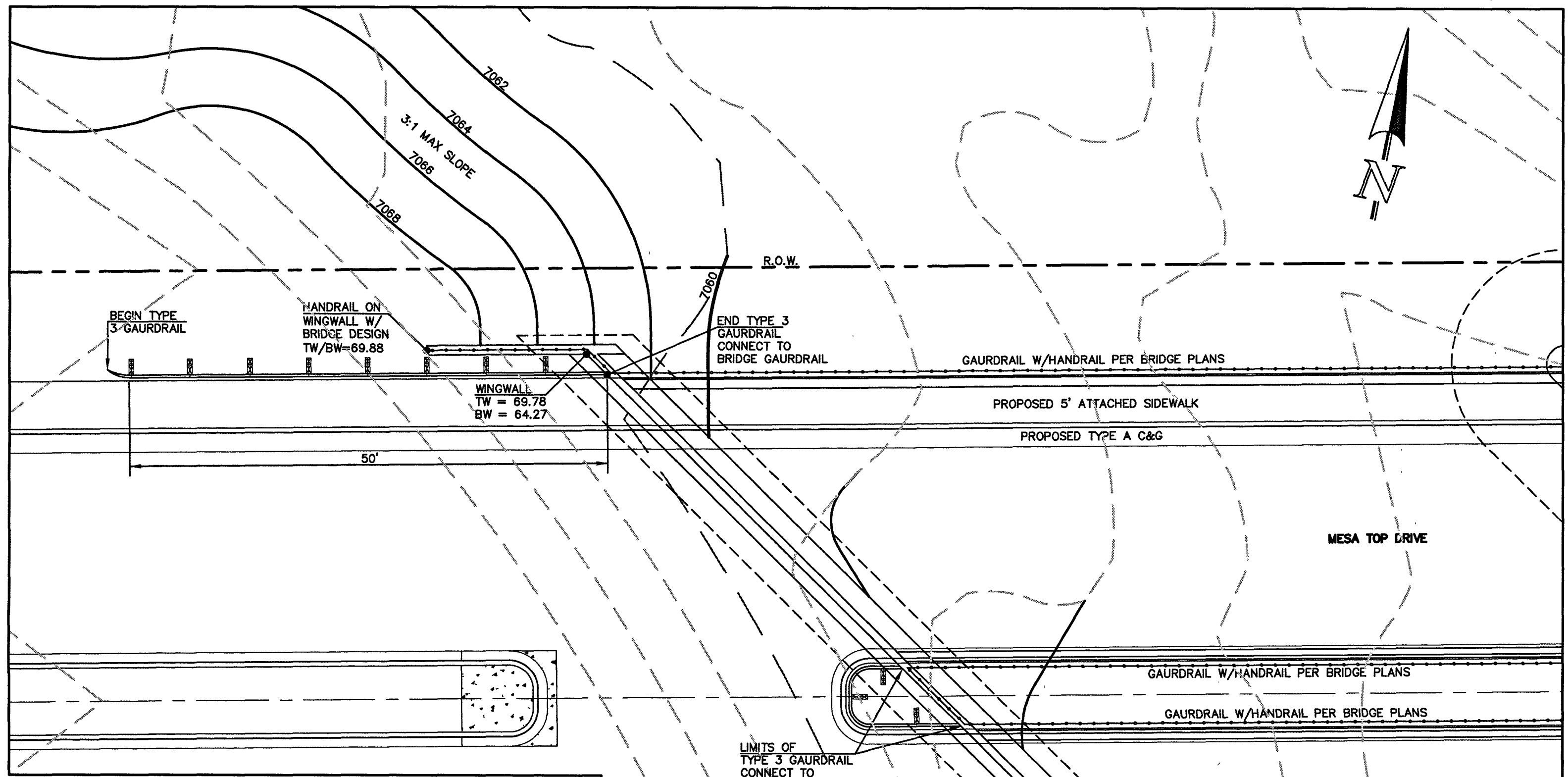
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			08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET 15 OF 30
CHECKED BY	(V) 1" = 5'	JOB NO.	1175.60



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

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

MESA TOP DRIVE MEDIAN DESIGN
 SCALE: 1" = 30'



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

DATE: 1/12/16
 DRAWN BY: Andre P. Brackin
 CHECKED BY: [Signature]
 SCALE: NOT TO SCALE

PROFESSIONAL ENGINEER
 KYLE R. CAMPBELL
 29794
AS-BUILTS
 01/05/2023
 SF-20-027

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REVIEW: [Signature]
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 KYLE R. CAMPBELL, P.E. #29794
 DATE: 01/05/2023

CLASSIC CONSULTING

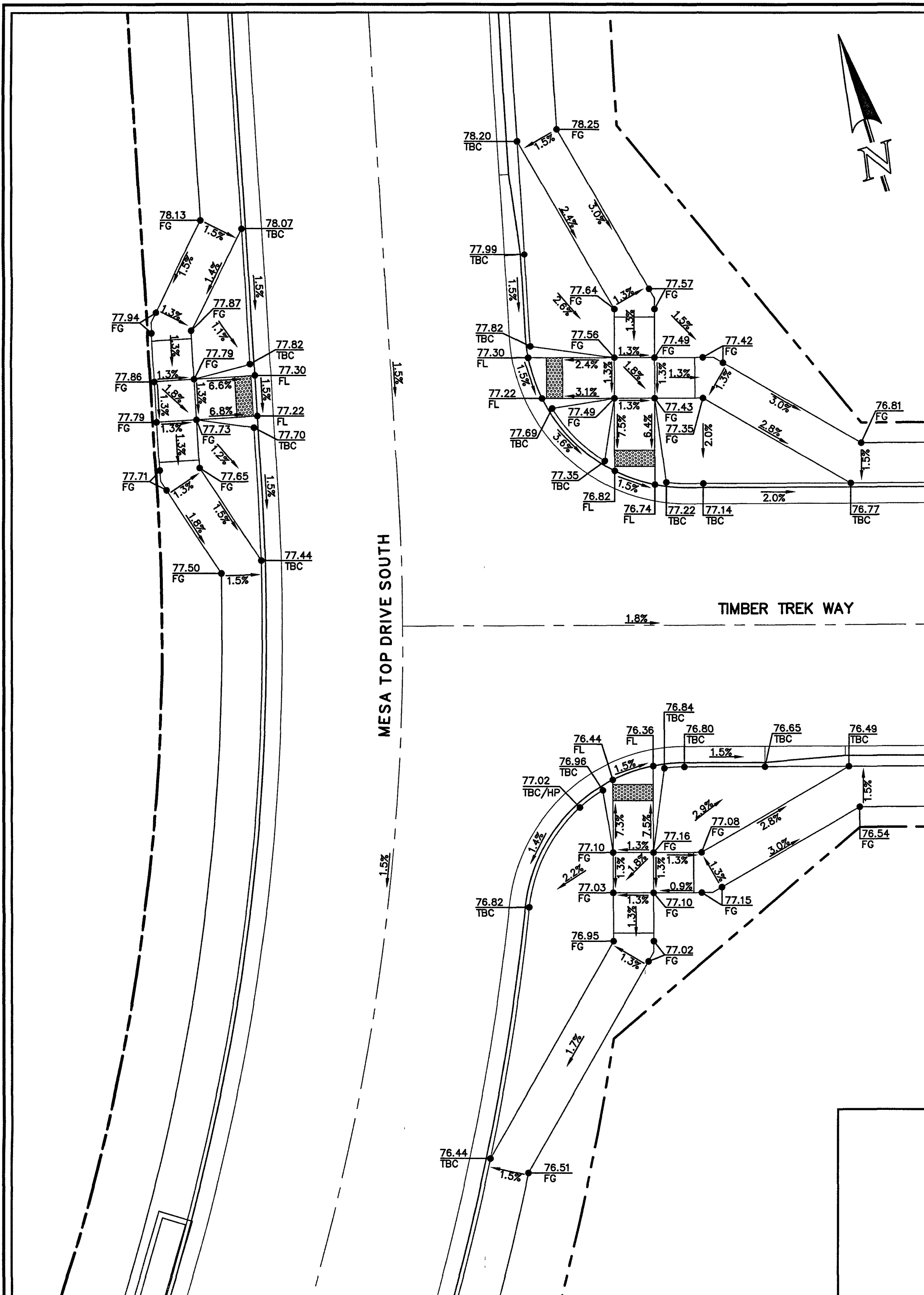
619 N. Cascade Avenue, Suite 200
 Colorado Springs, Colorado 80903
 (719)785-0790
 (719)785-0795(Fax)

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

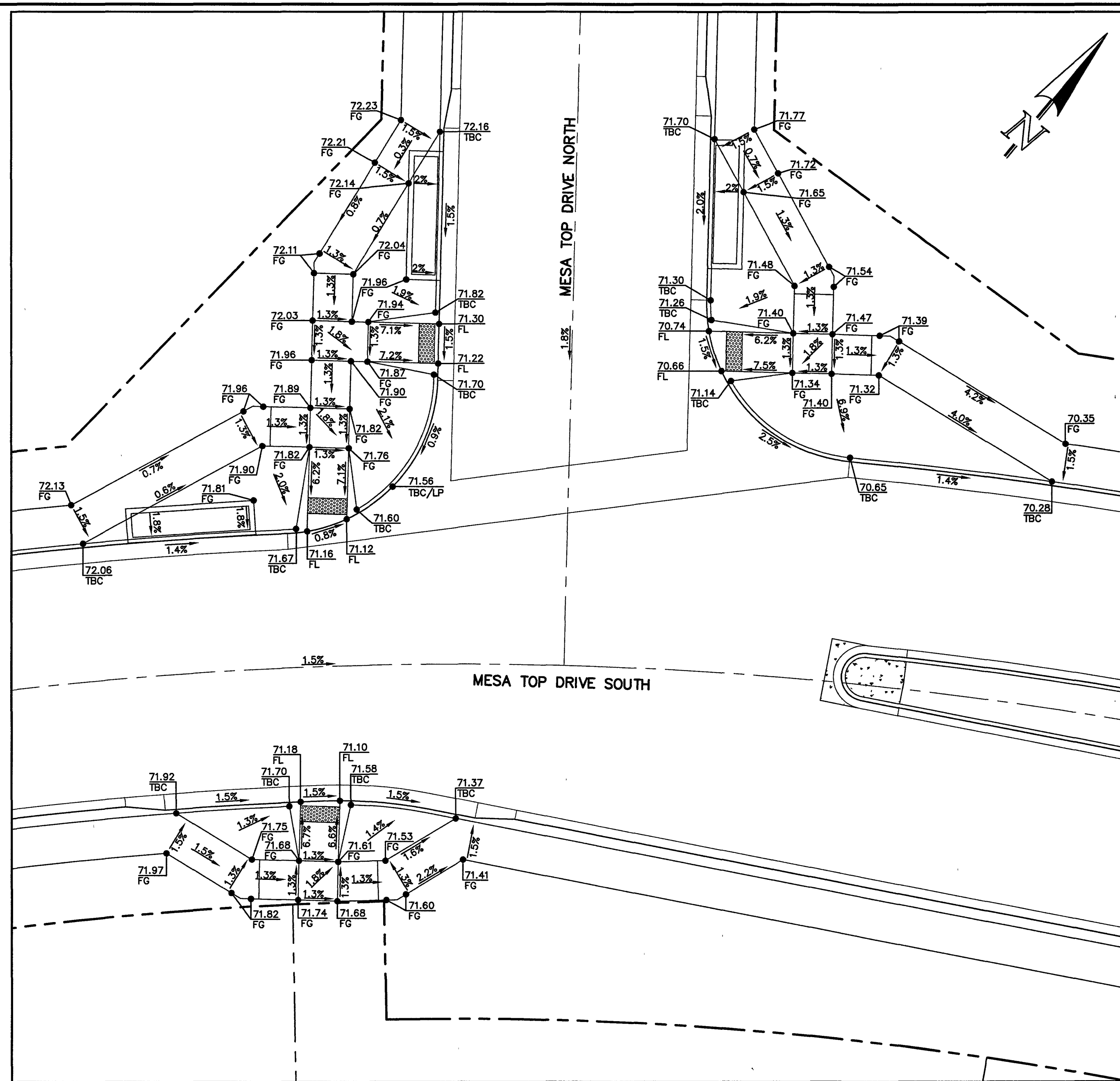
DESIGNED BY: MAL
 DRAWN BY: MES
 CHECKED BY: [Signature]

SCALE: (H) 1"=VARIES
 DATE: 08/04/2020
 SHEET 16 OF 30
 JOB NO.: 1175.60

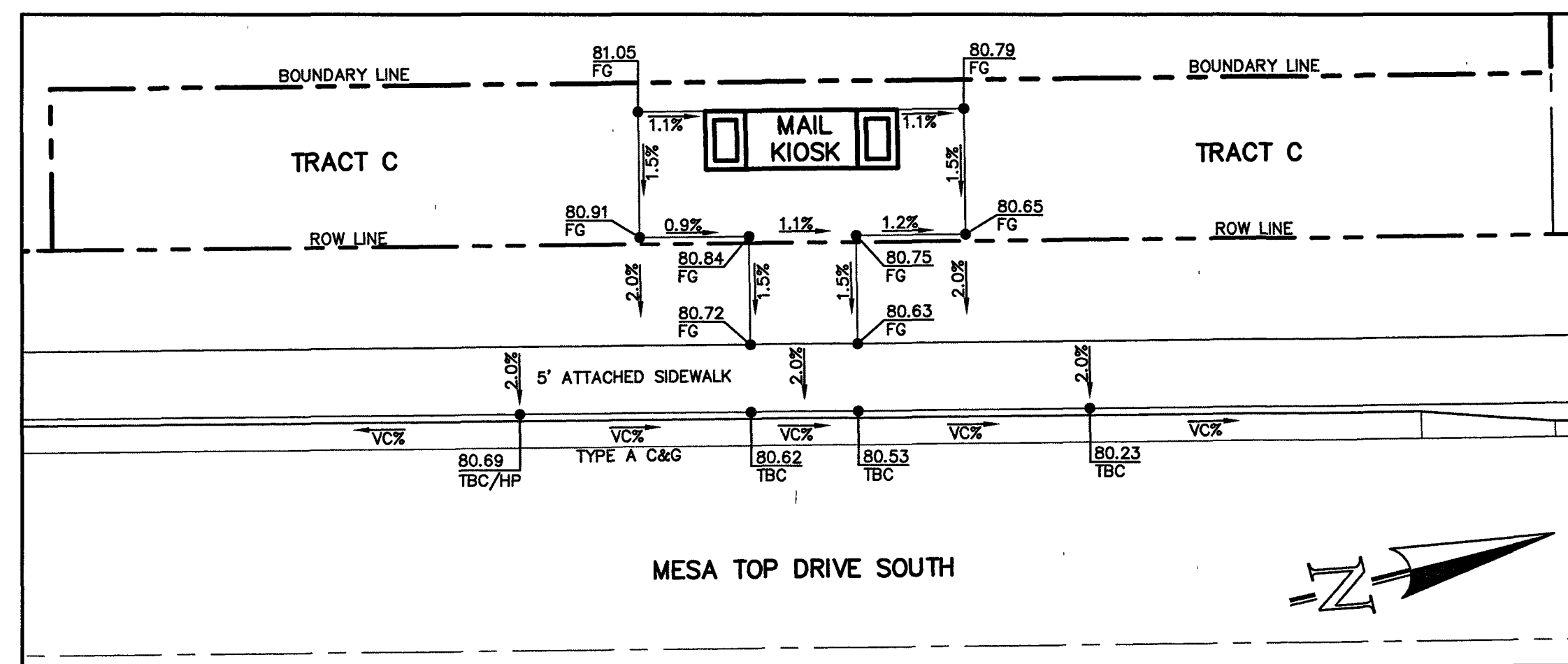
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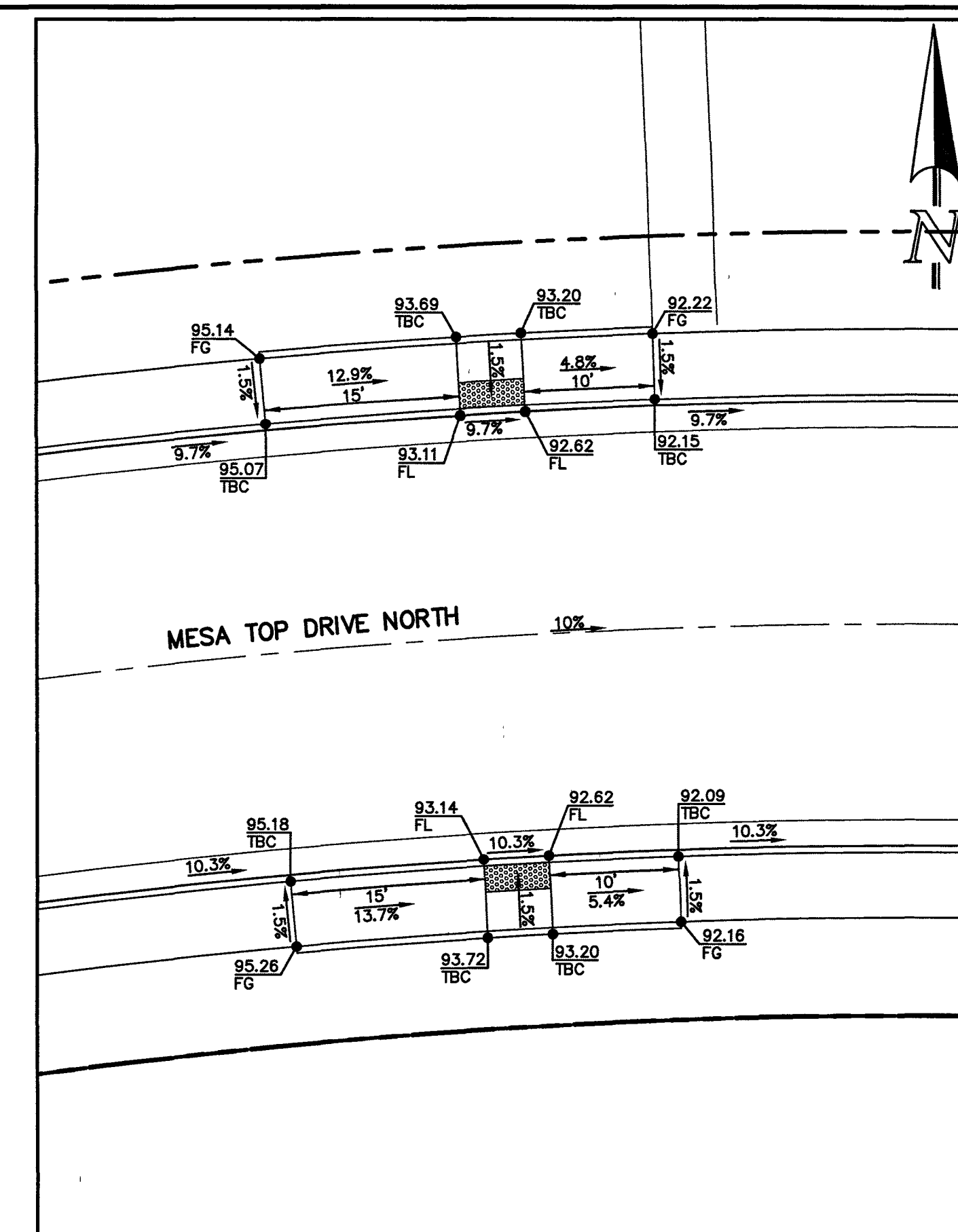
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SCALE: 1" = 10'



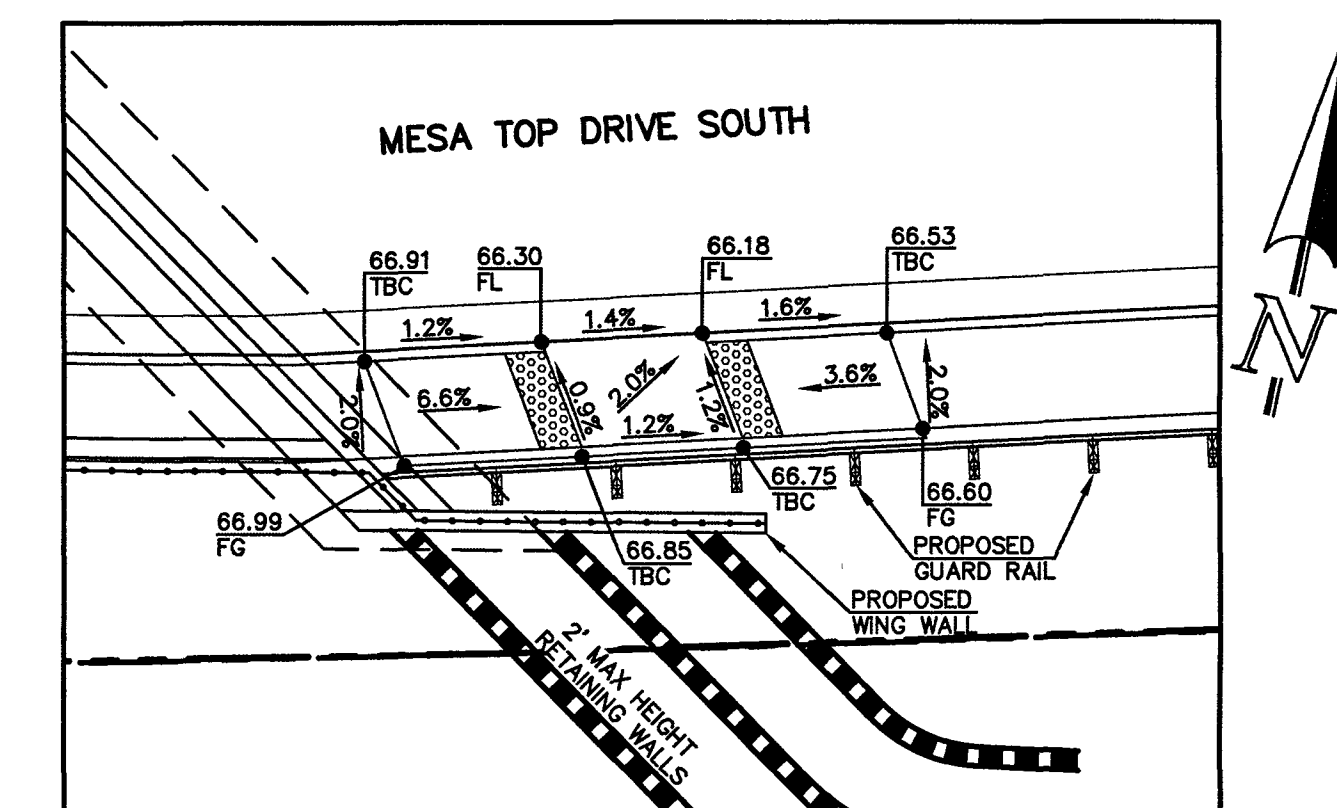
PEDESTRIAN RAMP SECTION 'B'
10 5 0 10 20
SCALE: 1" = 10'



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



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



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

48 HOURS BEFORE YOU DIG,
CALL UTILITY LOCATORS
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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
KYLE R. CAMPBELL, COLORADO P.E. #29794
DATE: 01/05/2023

CLASSIC CONSULTING

619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719) 785-0790
(719) 785-0793(Fax)

FOREST LAKES FILING NO. 6
PUBLIC STREET IMPROVEMENT PLAN
PEDESTRIAN RAMP & MAIL KIOSK DESIGN

DESIGNED BY	MAL	SCALE	DATE
			08/04/2020
DRAWN BY	MES	(H) 1"=VARIES	SHEET 17 OF 30
CHECKED BY	(V) 1"= N/A	JOB NO.	1175.60

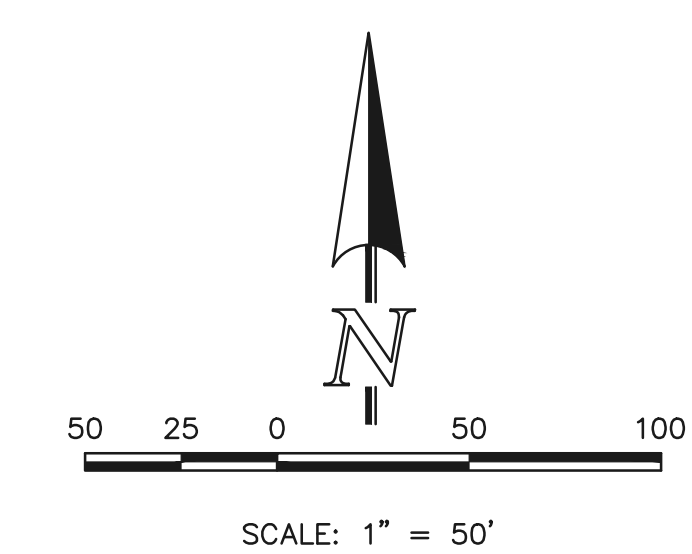
AS-BUILTS
01/05/2023
SF-20-027



PCD FILE # SF-20-027



N:\117560\DRAWINGS\CONSTRUCT\CONSTRUCT\FR15\17-117560-SI-09.dwg, 4/5/2023, 2:19:01 PM, 1:1



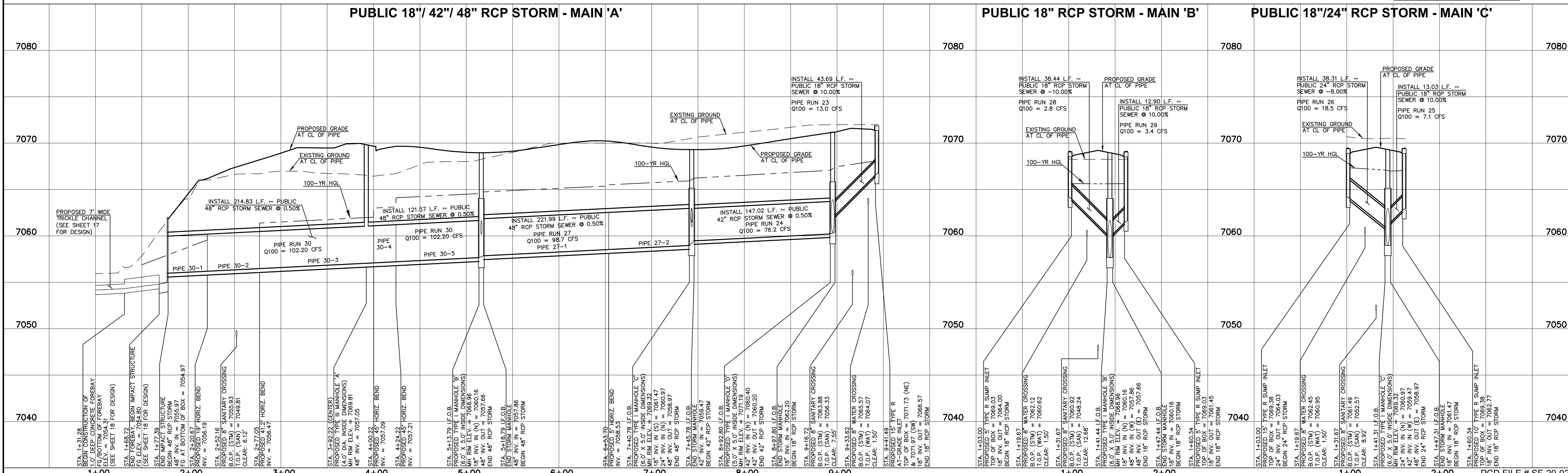
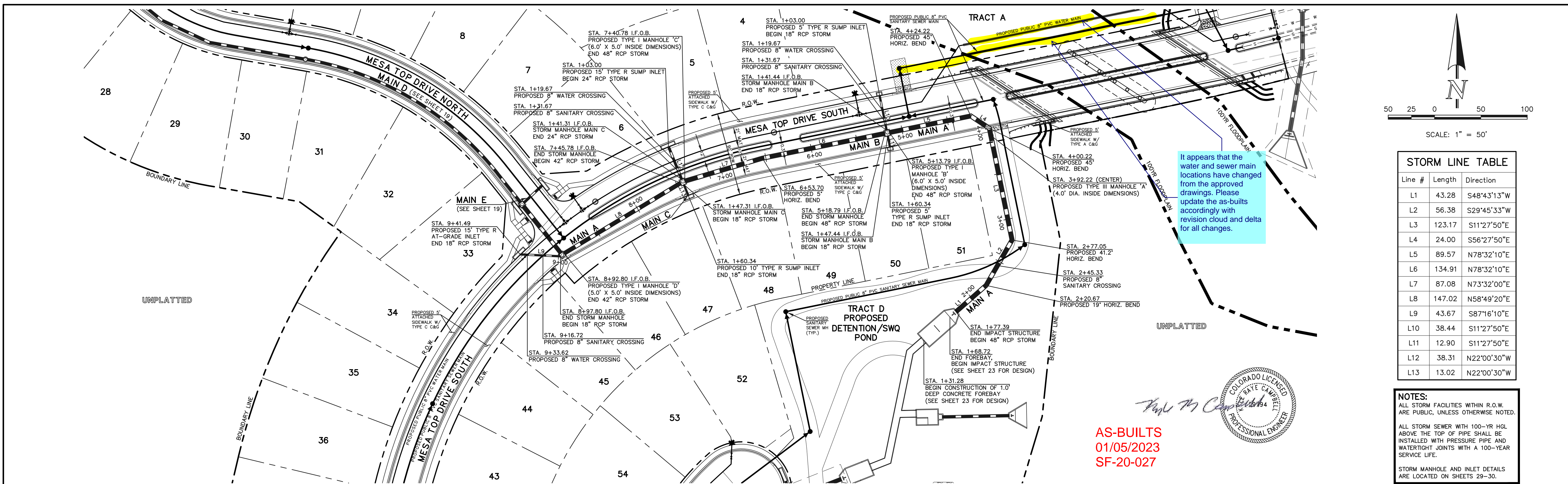
Line #	Length	Direction
L1	43.28	S48°43'13"W
L2	56.38	S29°45'33"W
L3	123.17	S11°27'50"E
L4	24.00	S56°27'50"E
L5	89.57	N78°32'10"E
L6	134.91	N78°32'10"E
L7	87.08	N73°32'00"E
L8	147.02	N58°49'20"E
L9	43.67	S87°16'10"E
L10	38.44	S11°27'50"E
L11	12.90	S11°27'50"E
L12	38.31	S22°00'30"W
L13	13.02	N22°00'30"W

It appears that the water and sewer main locations have changed from the approved drawings. Please update the as-builts accordingly with revision cloud and delta for all changes.



AS-BUILTS
01/05/2023
SF-20-027

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 WATER-TIGHT JOINTS WITH A 100-YEAR SERVICE LIFE.
STORM MANHOLE AND INLET DETAILS ARE LOCATED ON SHEETS 29-30.



LEGEND

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

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NO.	REVISION	DATE

REVIEW:

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CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

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

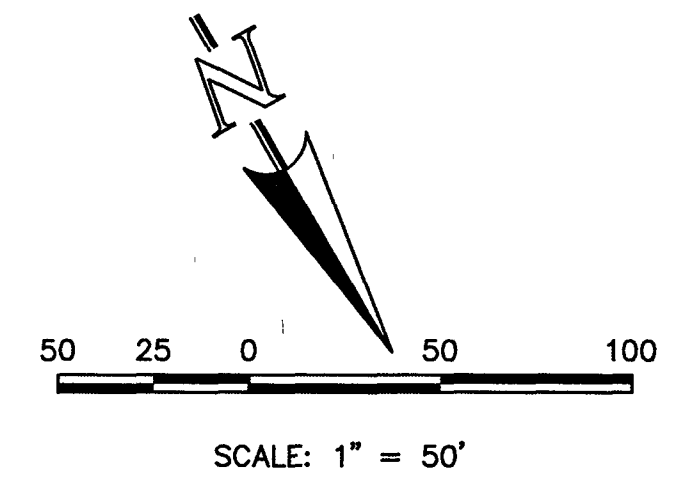
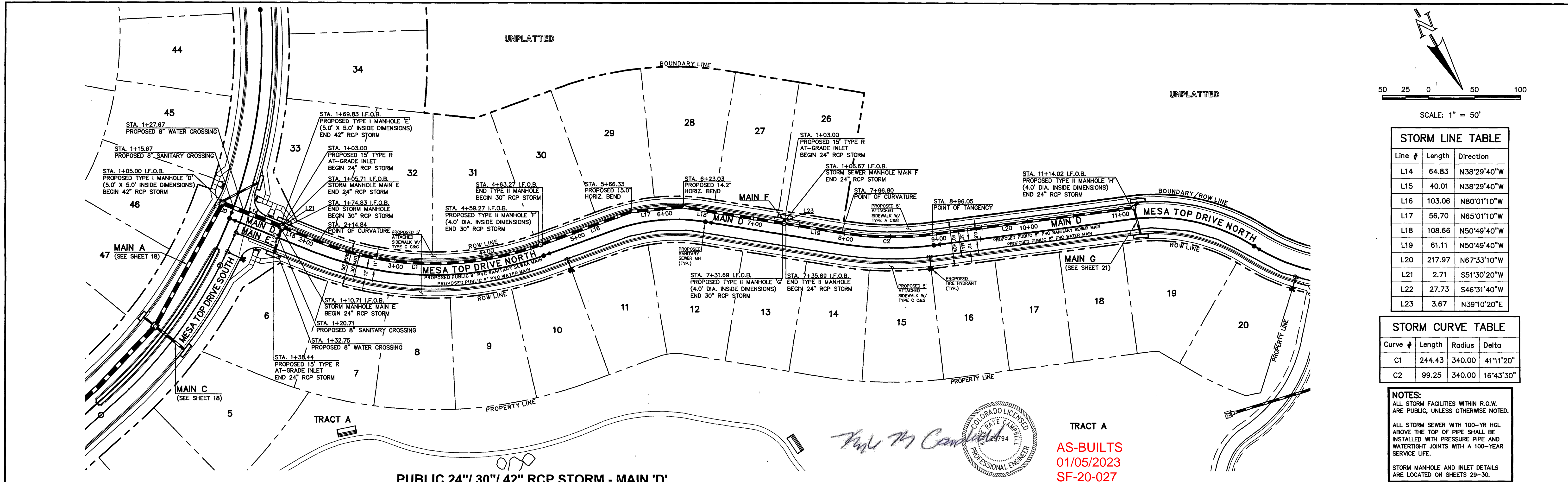
DATE: *aaah*



FOREST LAKES FILING NO. 6
CONSTRUCTION PLANS
PUBLIC STORM SEWER PLAN
MAIN 'A' / MAIN 'B' / MAIN 'C'

DESIGNED BY: MAL SCALE: DATE: 08/04/2020
DRAWN BY: MES (H) 1" = 50' SHEET 18 OF 30
CHECKED BY: (V) 1" = 50' JOB NO. 1175.60

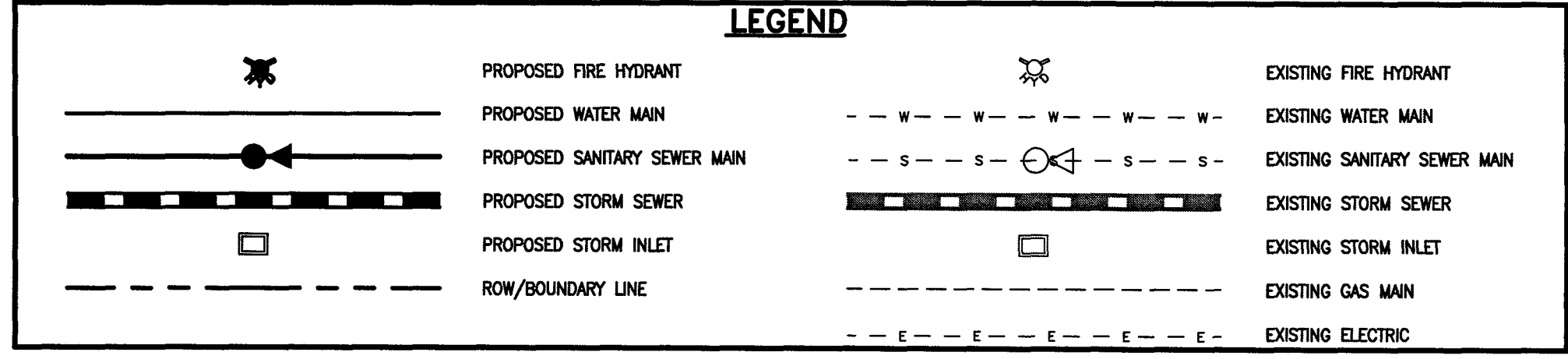
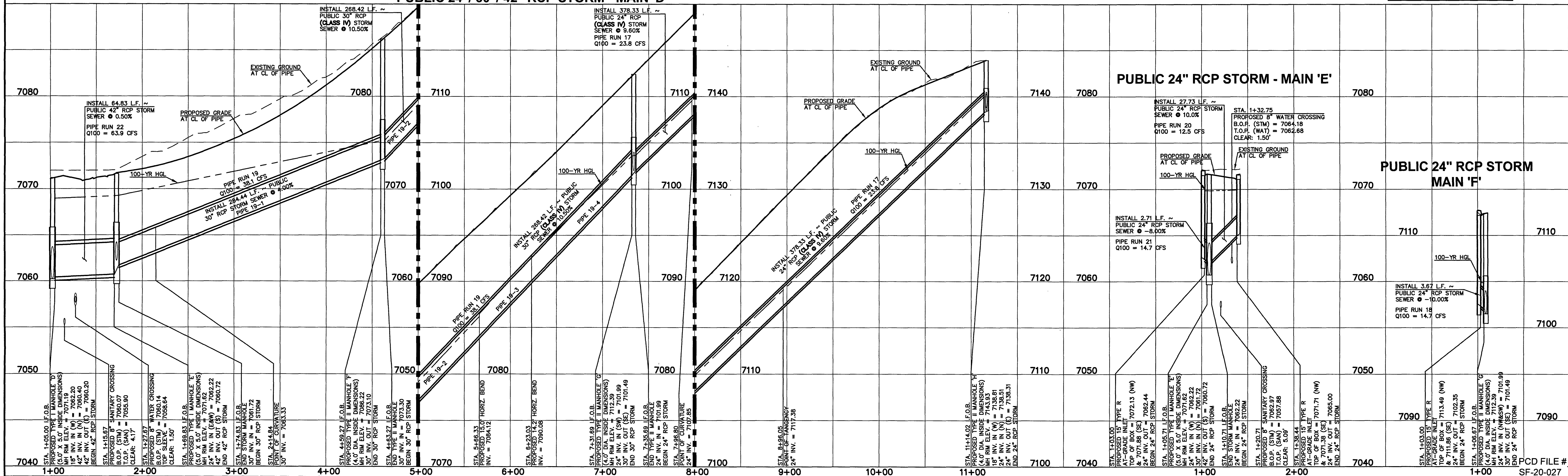
N:\117560\DRAWINGS\CONSTRUCTION\STORM\18-117560-S1M-01.dwg, 5/9/2021, 1:01:28 PM, 1:1



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

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

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



48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS
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NO.	REVISION	DATE

REVIEW:

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

AKW
 DATE

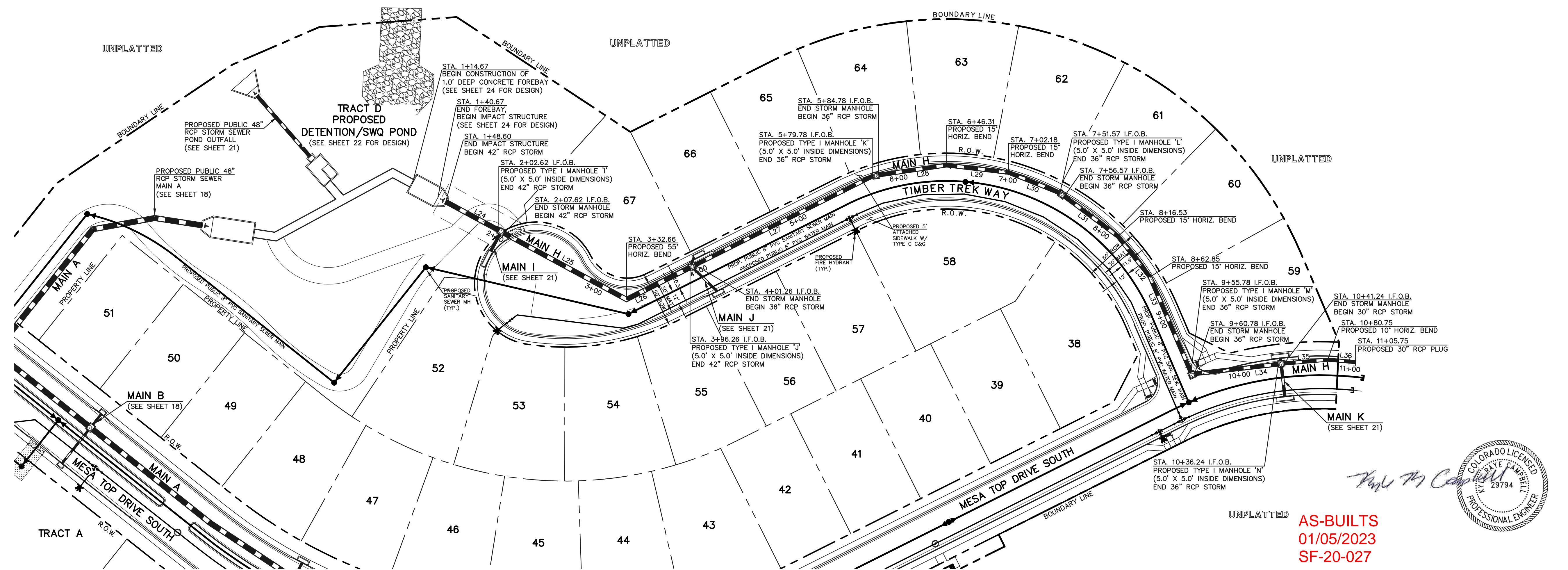
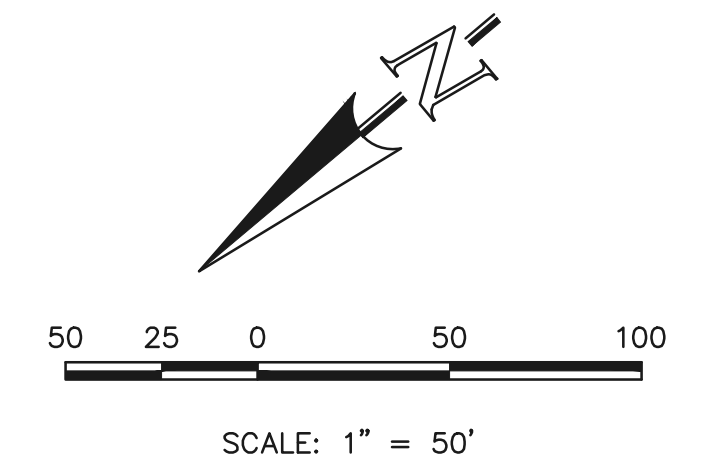
CLASSIC CONSULTING

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

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

DESIGNED BY	MAL	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET	19 OF 30
CHECKED BY	(V) 1" = 5'	JOB NO.	1175-60	

PCD FILE # SF-20-027

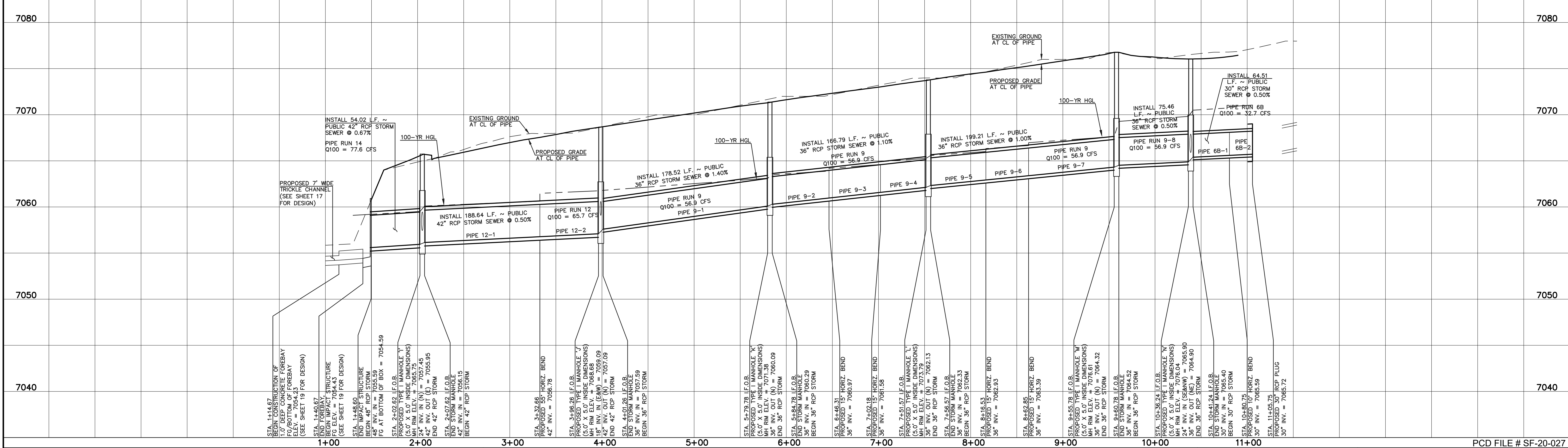


Line #	Length	Direction
L24	54.02	N68°23'20"E
L25	125.04	N68°23'20"E
L26	63.60	N13°23'20"E
L27	178.51	N13°23'20"E
L28	61.53	N31°45'20"E
L29	55.87	N46°45'20"E
L30	49.39	N61°45'20"E
L31	59.96	N76°45'20"E
L32	46.32	S88°14'40"E
L33	92.93	S73°14'40"E
L34	75.46	N33°26'30"E
L35	39.51	N35°00'20"E
L36	25.00	N45°00'20"E

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

AS-BUILTS
 01/05/2023
 SF-20-027

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



LEGEND

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

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 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

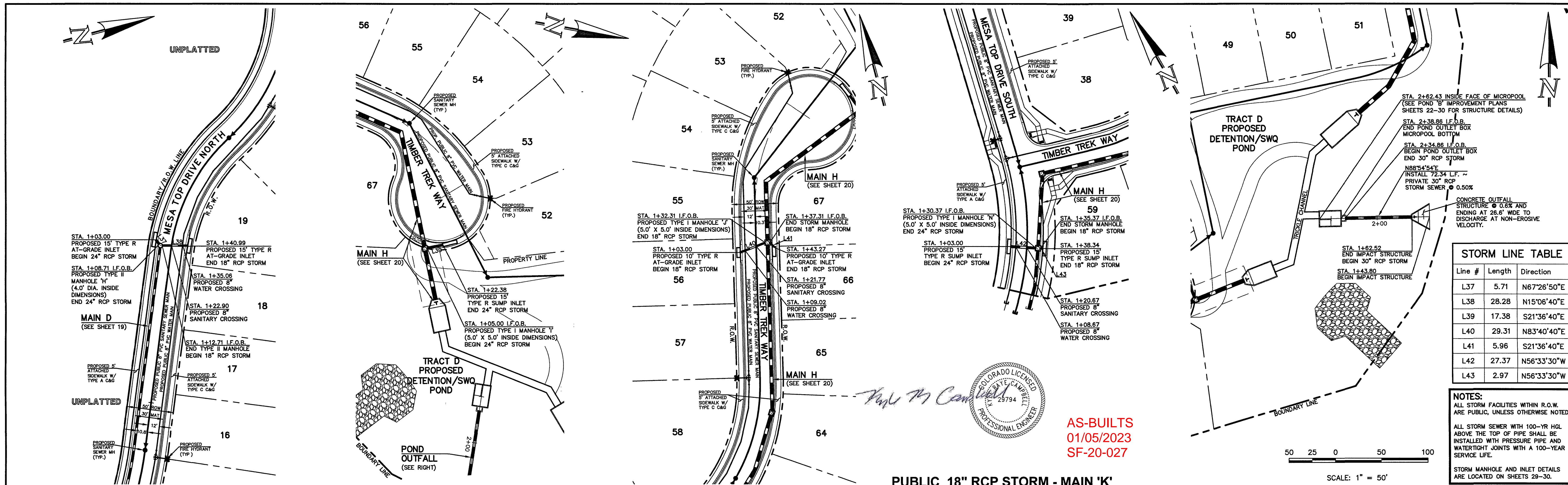
KYLE R. CAMPBELL, COLORADO P.E. #29794

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

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

DESIGNED BY	MAL	SCALE	DATE	08/04/2020
DRAWN BY	MES	(H) 1" = 50'	SHEET	20 OF 30
CHECKED BY	(V) 1" = 5'	JOB NO.	1175.60	

N:\117560\DRAWINGS\CONSTRUCTION\STORM\20-117560-SJM-03.dwg, 5/6/2021 1:06:18 PM, 1:1

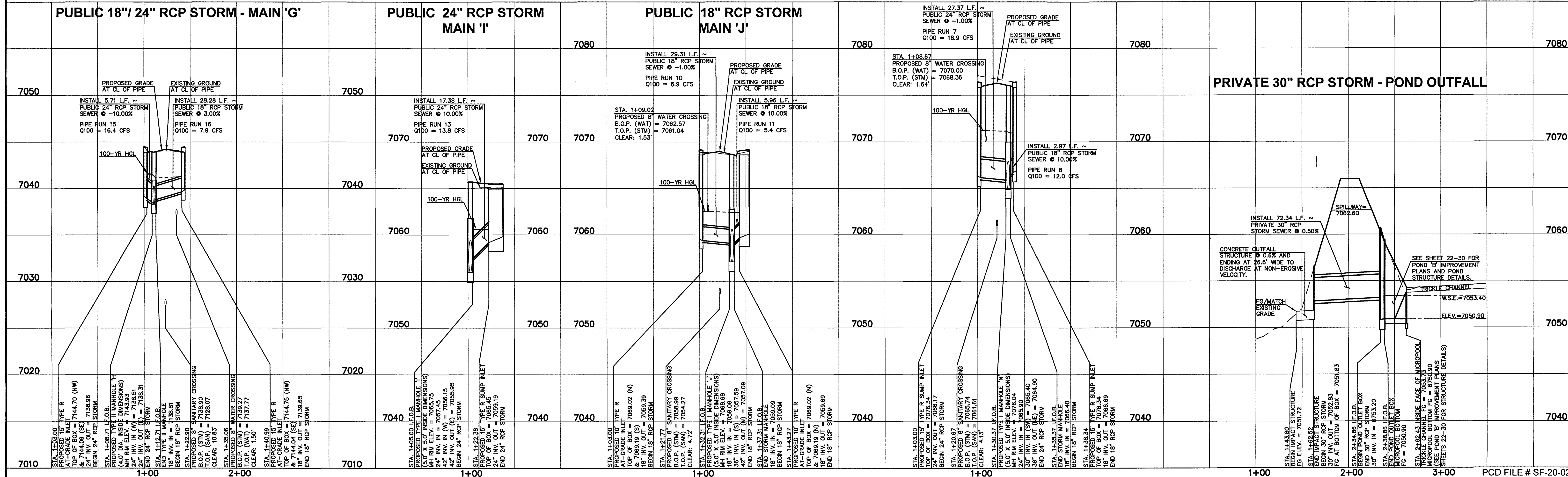


Line #	Length	Direction
L37	5.71	N67°26'50"E
L38	28.28	N15°06'40"E
L39	17.38	S21°36'40"E
L40	29.31	N83°40'40"E
L41	5.96	S21°36'40"E
L42	27.37	N56°33'30"W
L43	2.97	N56°33'30"W

NOTES:
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 ALL STORM SEWER WITH 100-YR HGL ABOVE THE TOP OF PIPE SHALL BE INSTALLED WITH PRESSURE PIPE AND WATER TIGHT JOINTS WITH A 100-YEAR SERVICE LIFE.
 STORM MANHOLE AND INLET DETAILS ARE LOCATED ON SHEETS 28-30.

PUBLIC 18" RCP STORM - MAIN 'K'

SCALE: 1" = 50'



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:

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

A. 9.21
 DATE

CLASSIC CONSULTING

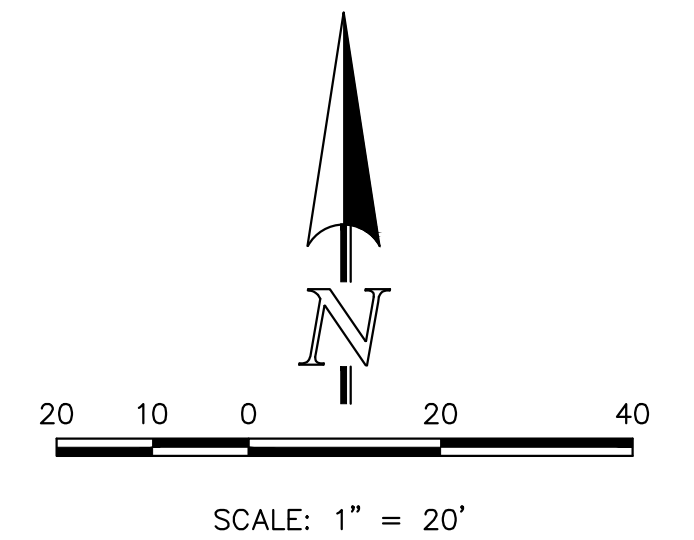
610 N. Cascade Avenue, Suite 200
 Colorado Springs, Colorado 80903

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

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

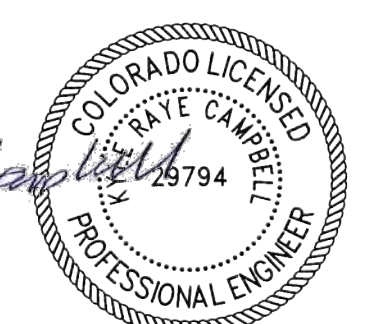
DESIGNED BY MAL SCALE DATE 08/04/2020
 DRAWN BY MES (H) 1" = 50' SHEET 21 OF 30
 CHECKED BY (V) 1" = 5' JOB NO. 1175.60





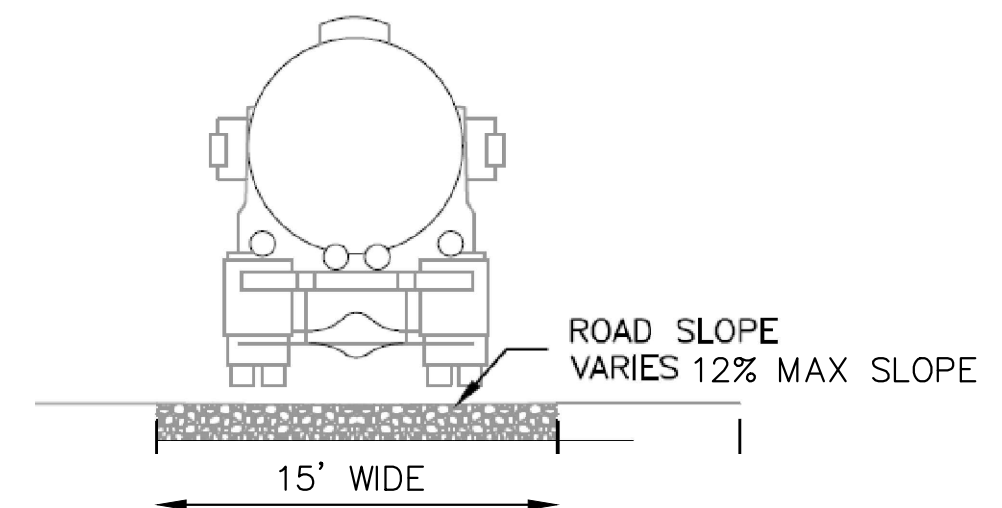
NOTE:
POND BOTTOM TO SLOPE TOWARD TRICKLE CHANNEL AT 4% FOR FIRST 25' AND 1% THEREAFTER TO EDGE OF POND BOTTOM

ACCESS ROAD

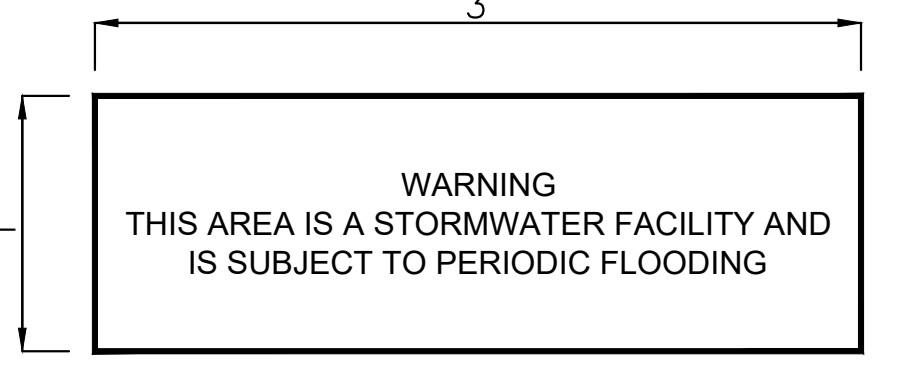


AS-BUILTS
01/05/2023
SF-20-027
POND 'B'

REQUIRED EURV TO TOP OF OUTLET BOX FACE = 1.732 AC.-FT.
AS-BUILT EURV = 1.746 AC.-FT.

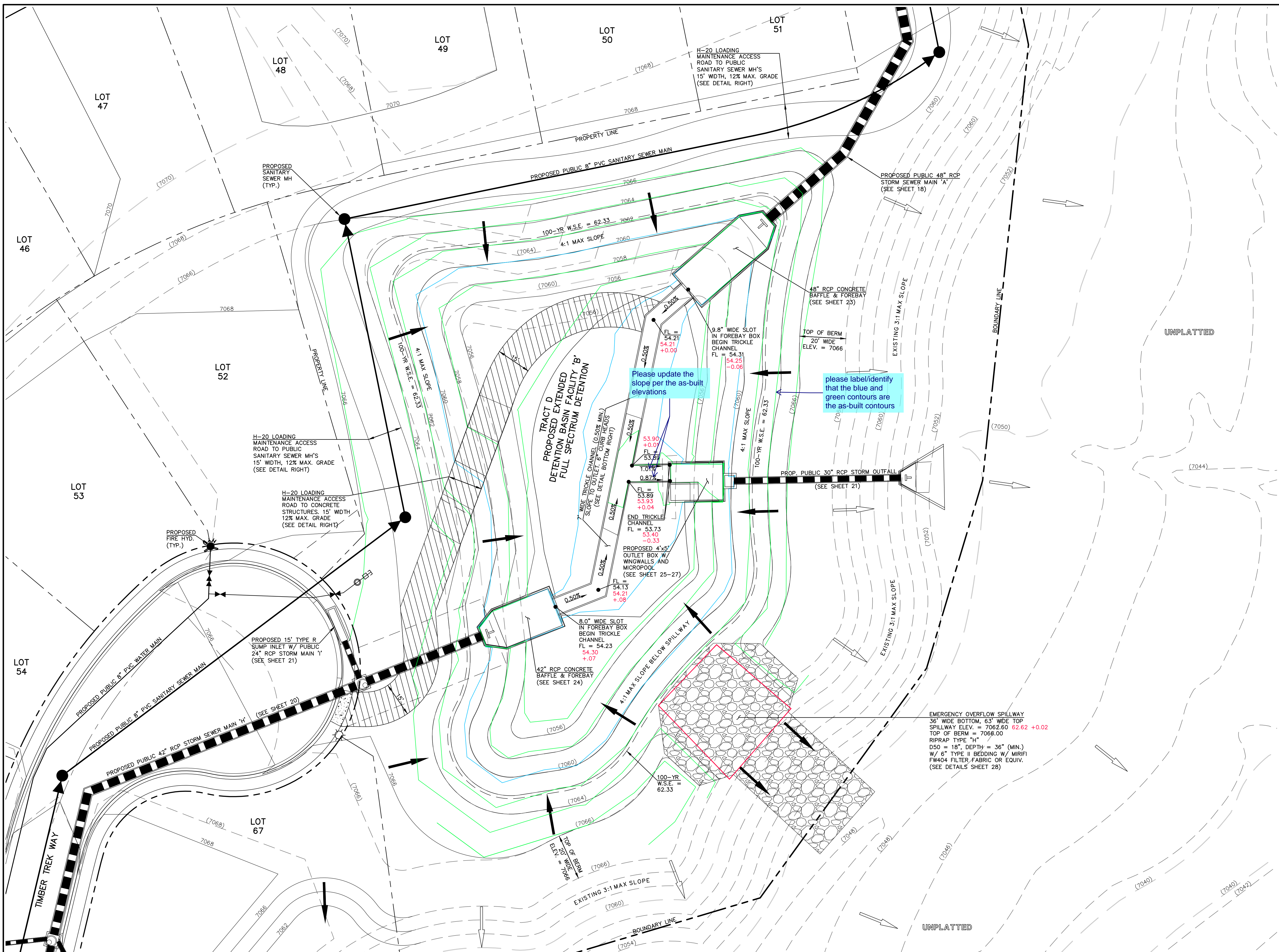
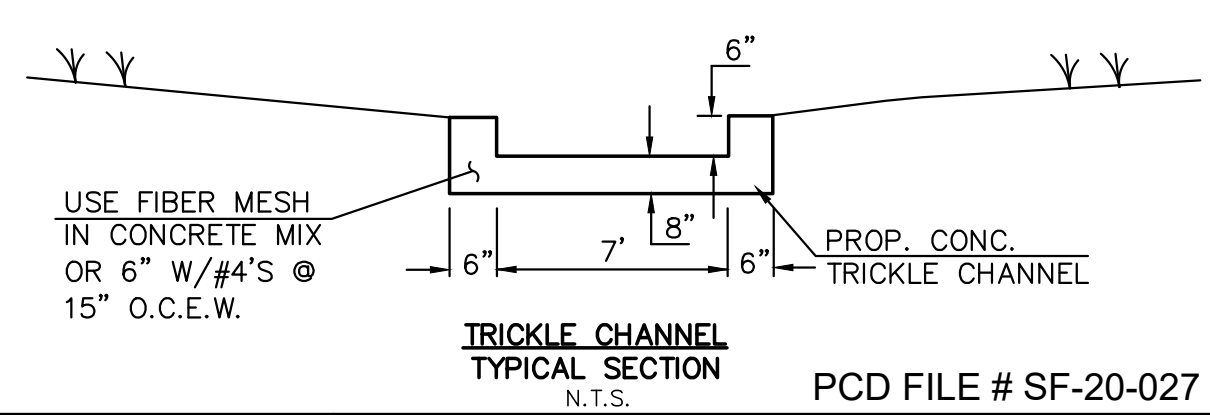


12" LAYER OF AGGREGATE BASE COURSE OR CRUSHED GRAVEL OVER COMPACTED SUBGRADE TO ELEVATION 7035.00 (EURV ELEVATION)
8" LAYER OF AGGREGATE BASE COURSE OR CRUSHED GRAVEL ABOVE 7035.00.



SIGN A

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



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

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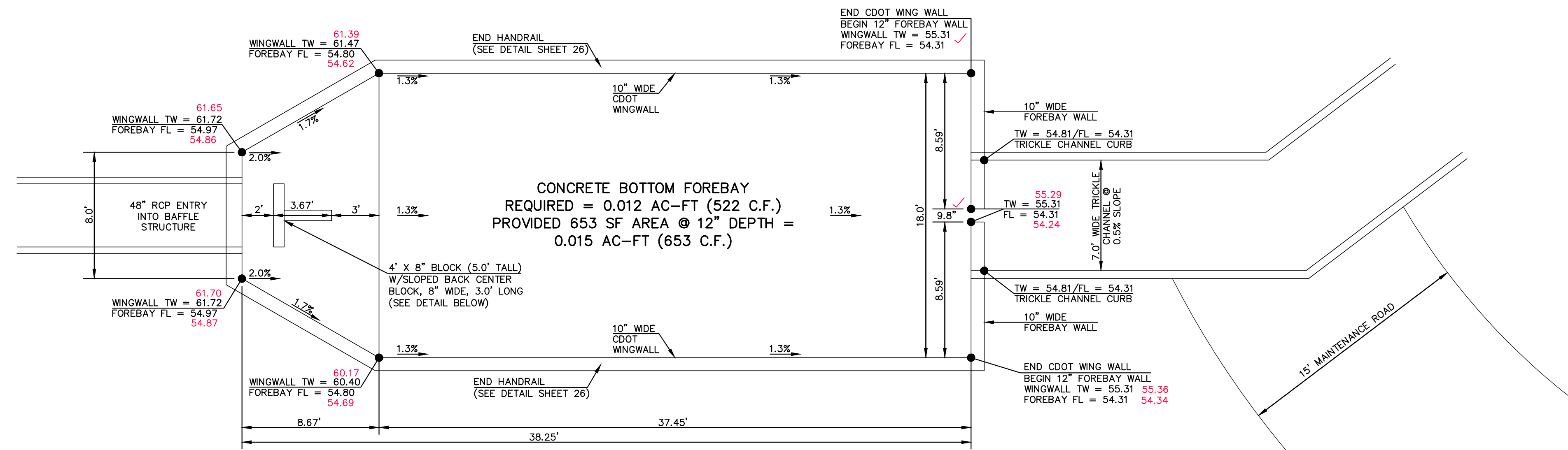
KYLE R. CAMPBELL, COLORADO, P.E. #29794

CLASSIC CONSULTING

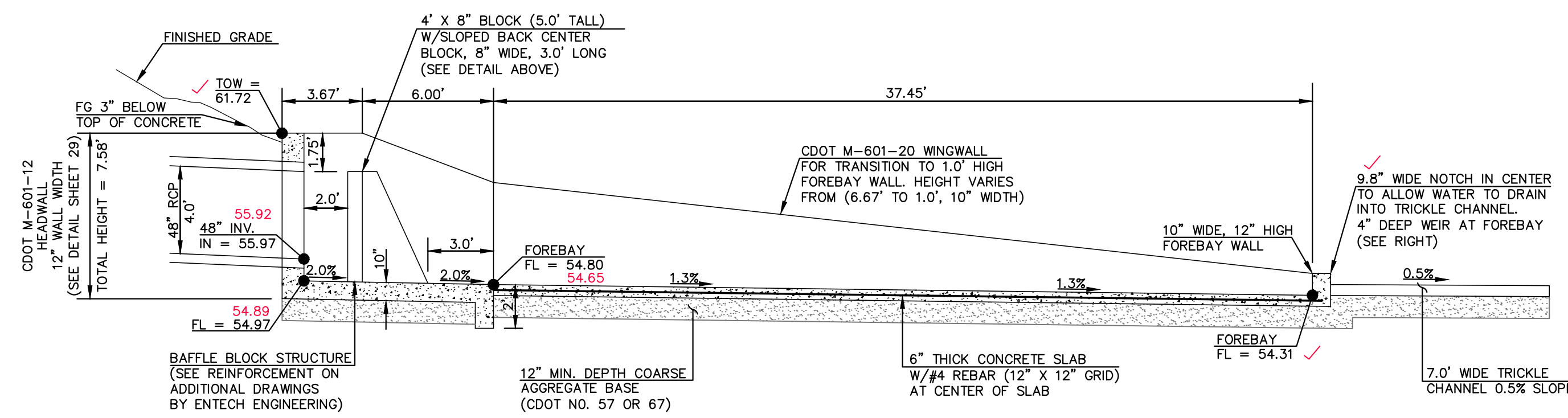
619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903

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

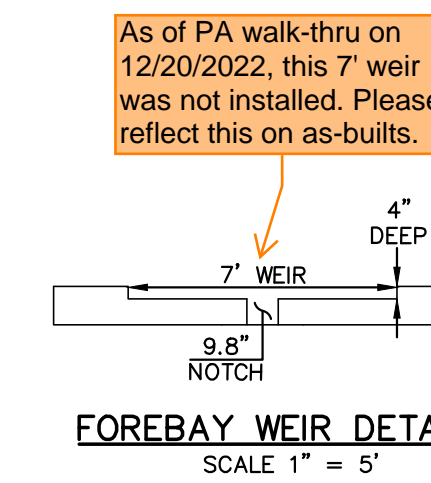
FOREST LAKES FILING NO. 6 CONSTRUCTION PLANS PRIVATE POND 'B' EDB - FULL SPECTRUM DETENTION			
DESIGNED BY	MAL	SCALE	DATE 08/04/2020
DRAWN BY	MES	(H) 1" = 20'	SHEET 22 OF 30
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.60



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'

Kyle R. Campbell

 COLORADO LICENSED
 KYLE R. CAMPBELL
 29794
 PROFESSIONAL ENGINEER

AS-BUILTS
01/05/2023
SF-20-027


PCD FILE # SF-20-027

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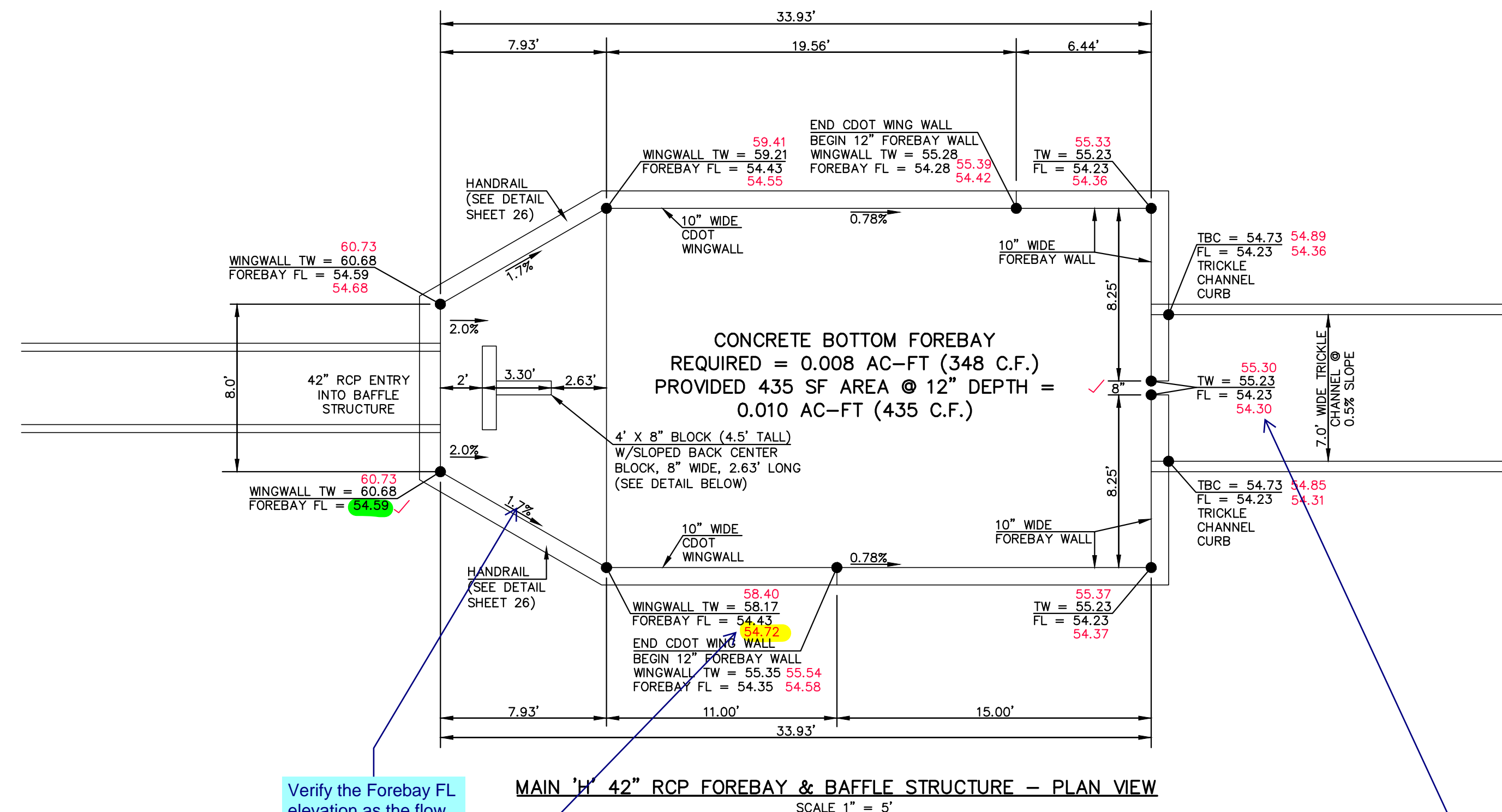
Kyle R. Campbell

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

DATE: 01/05/23

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

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

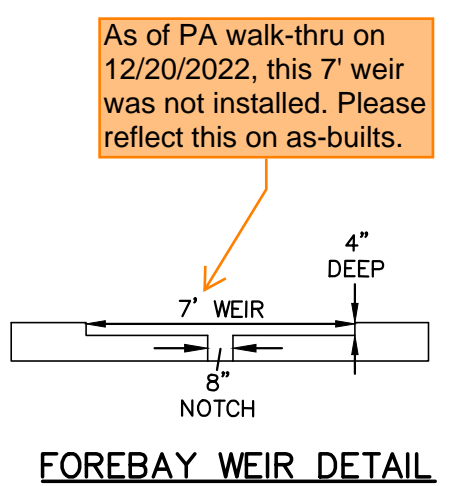
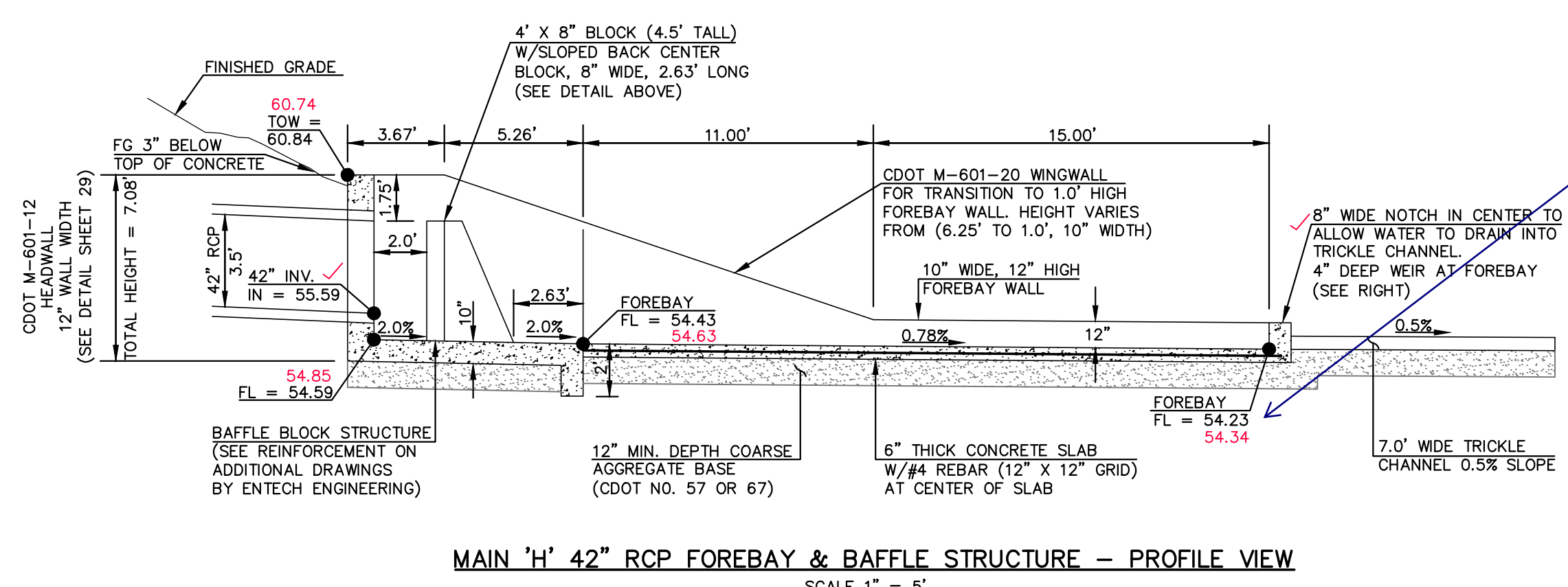
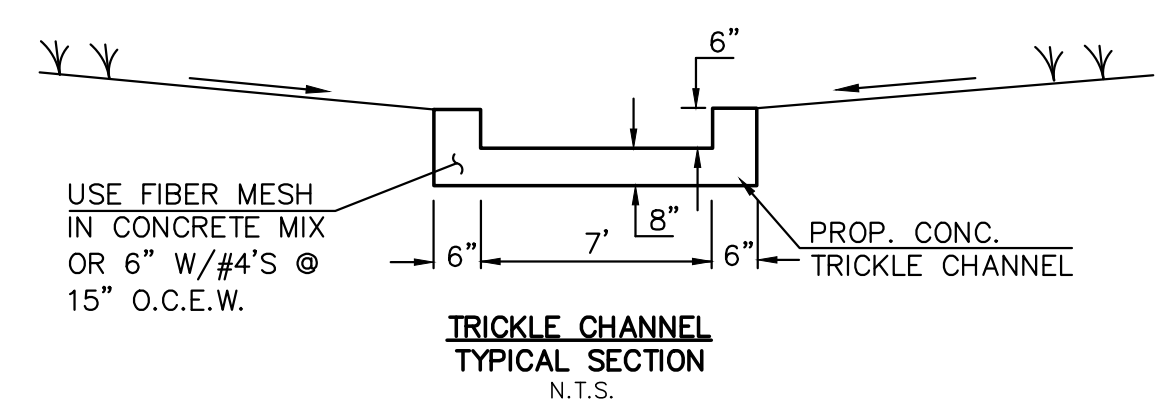




Verify the Forebay FL elevation as the flow would not be conveyed in the direction as shown if this (highlighted yellow) elevation is higher than the entry forebay FL elevation (green)

Shouldnt these elevations be the same?

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



As of PA walk-thru on 12/20/2022, this 7\"/>



AS-BUILTS
01/05/2023
SF-20-027

PCD FILE # SF-20-027

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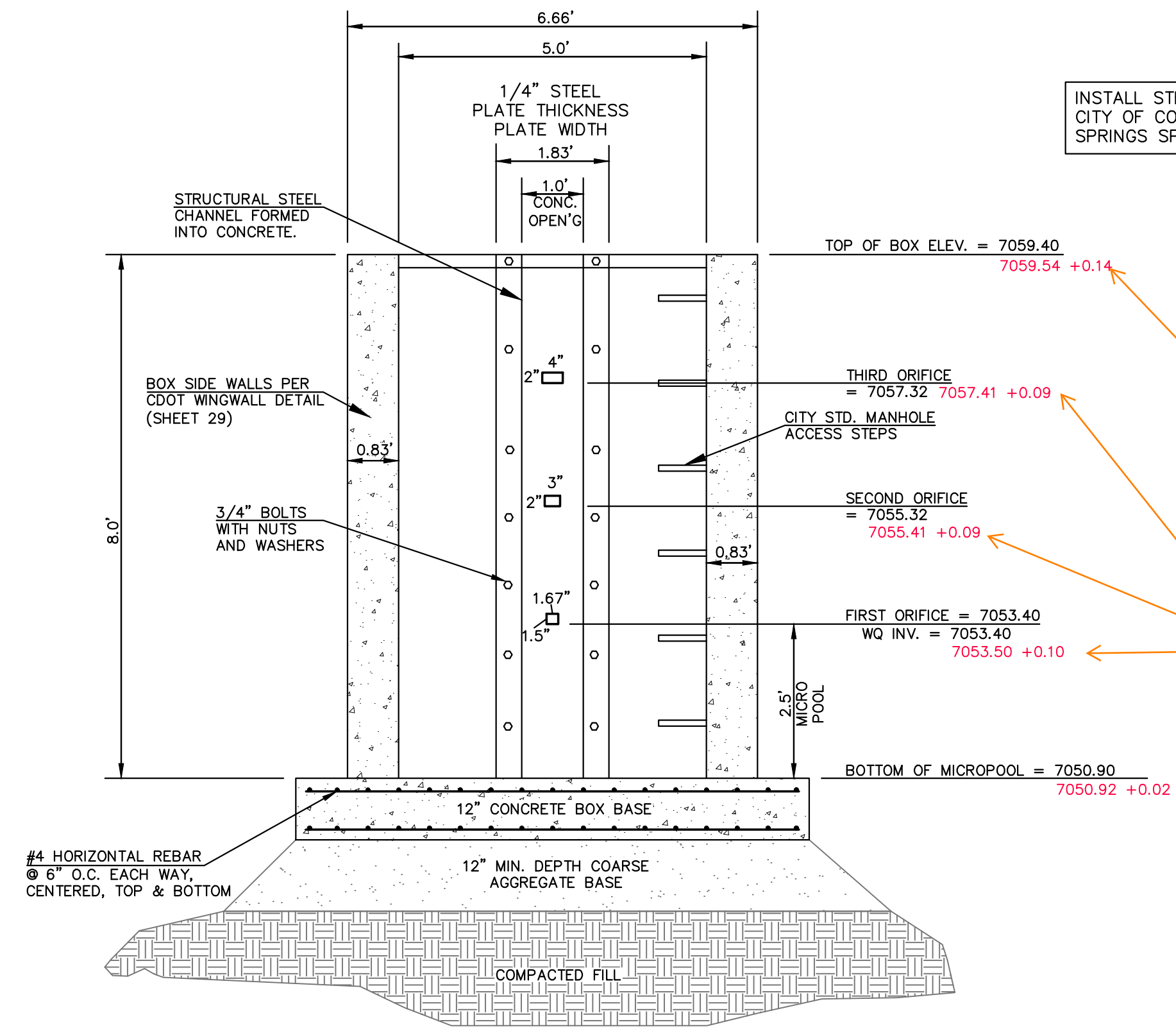
NO.	REVISION	DATE

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

Kyle R. Campbell
KYLE R. CAMPBELL, COLORADO P.E. #29794
DATE 01/05/23

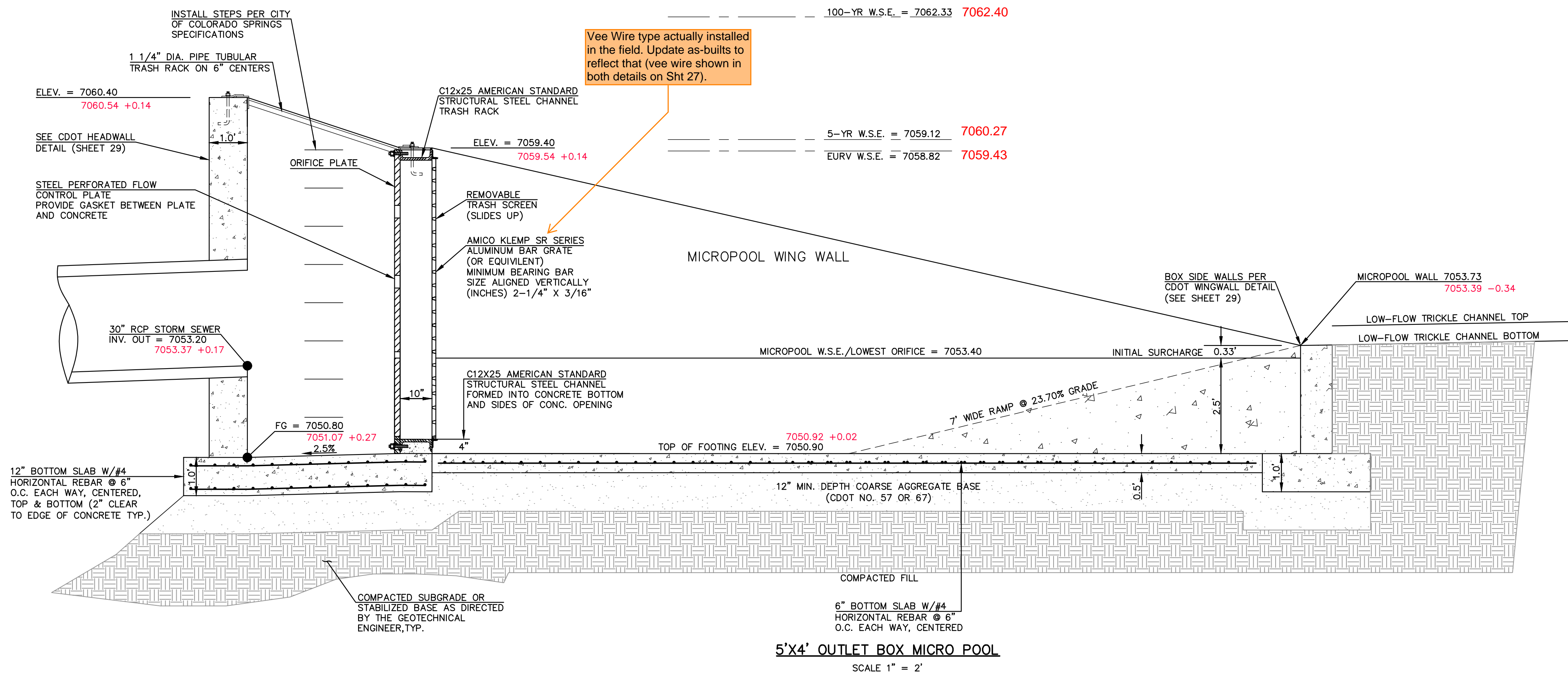


FOREST LAKES FILING NO. 6 CONSTRUCTION PLAN			
MAIN 'H' - 42" IMPACT STRUCTURE			
DESIGNED BY	MAL	SCALE	DATE 08/04/2020
DRAWN BY	MES	(H) 1" = 5'	SHEET 24 OF 30
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.60

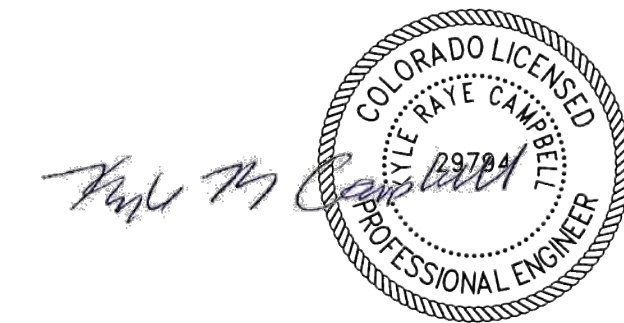


5'X4' OUTLET BOX ORIFICE PLATE
SCALE 1" = 2'

revise on UD-Detention spreadsheet and submit for review. We need to see how this change will effect flows.



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



AS-BUILTS
01/05/2023
SF-20-027
POND 'B'

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NO.	REVISION	DATE

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

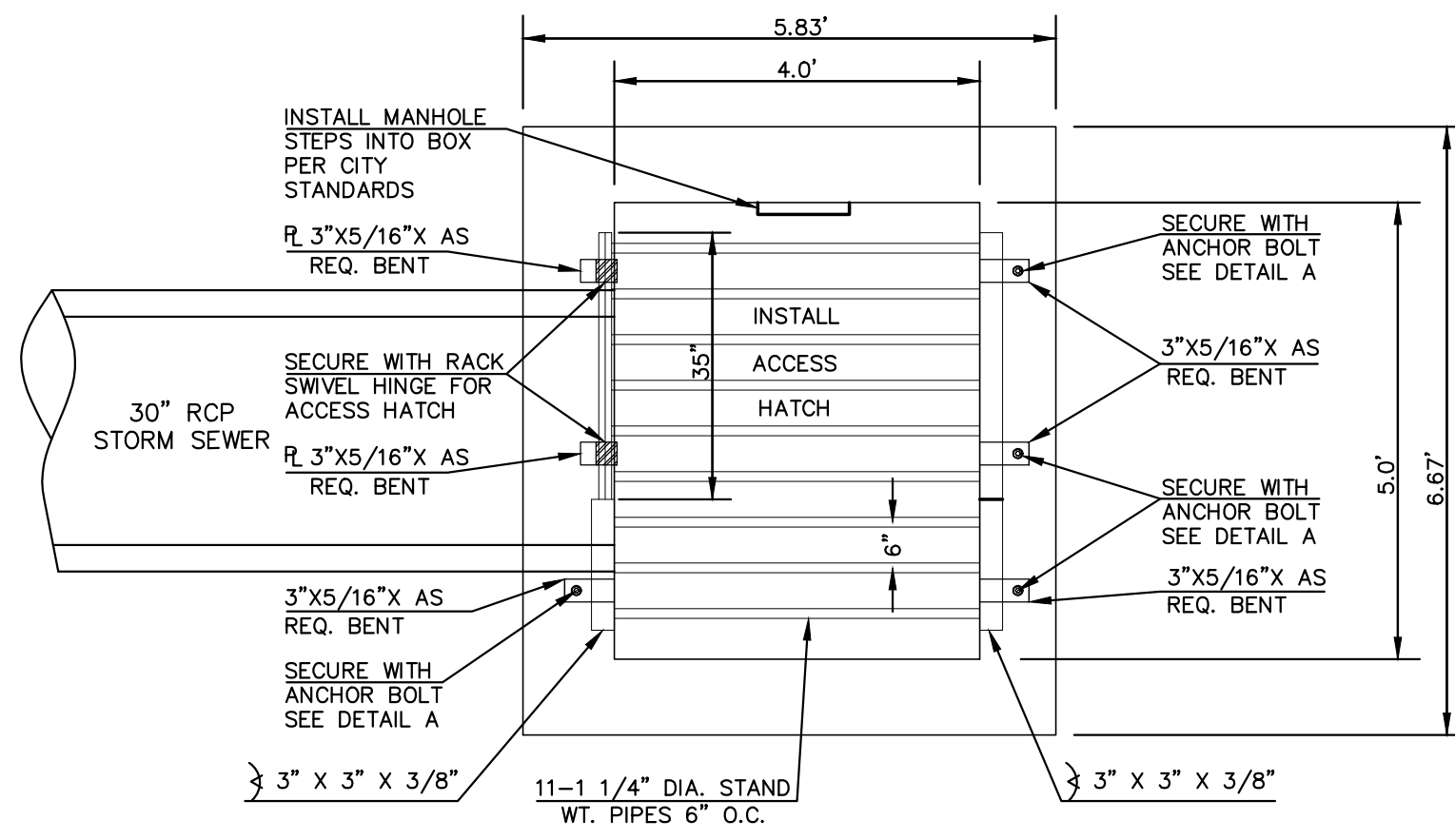
Kyle R. Campbell
KYLE R. CAMPBELL, COLORADO, P.E. #29794

DATE: 01/05/23

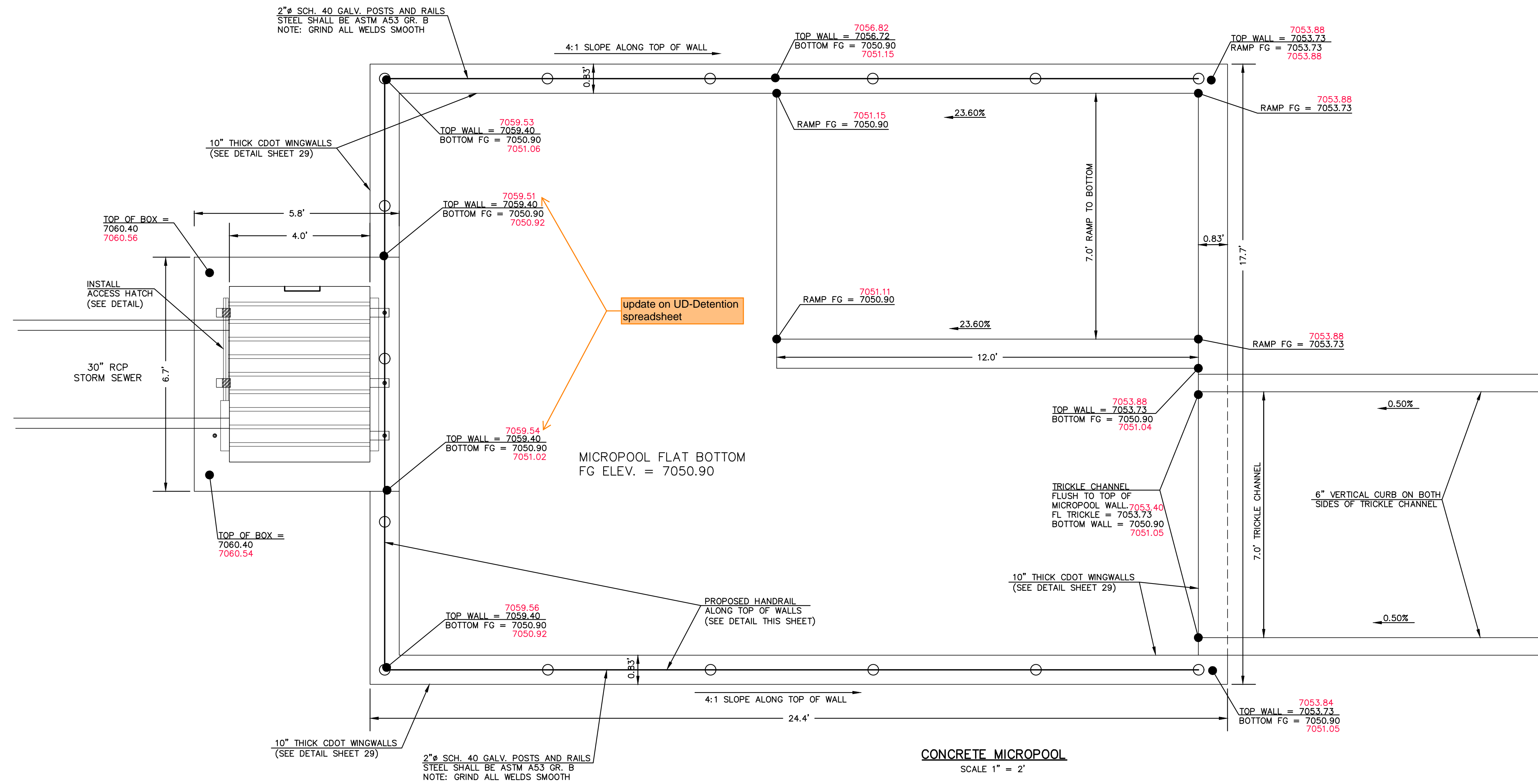


PCD FILE # SF-20-027

FOREST LAKES FILING NO. 6 CONSTRUCTION PLAN			
POND OUTLET BOX - PROFILE VIEW			
DESIGNED BY	MAL	SCALE	DATE 08/04/2020
DRAWN BY	MES	(H) 1" = 2'	SHEET 25 OF 30
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.60

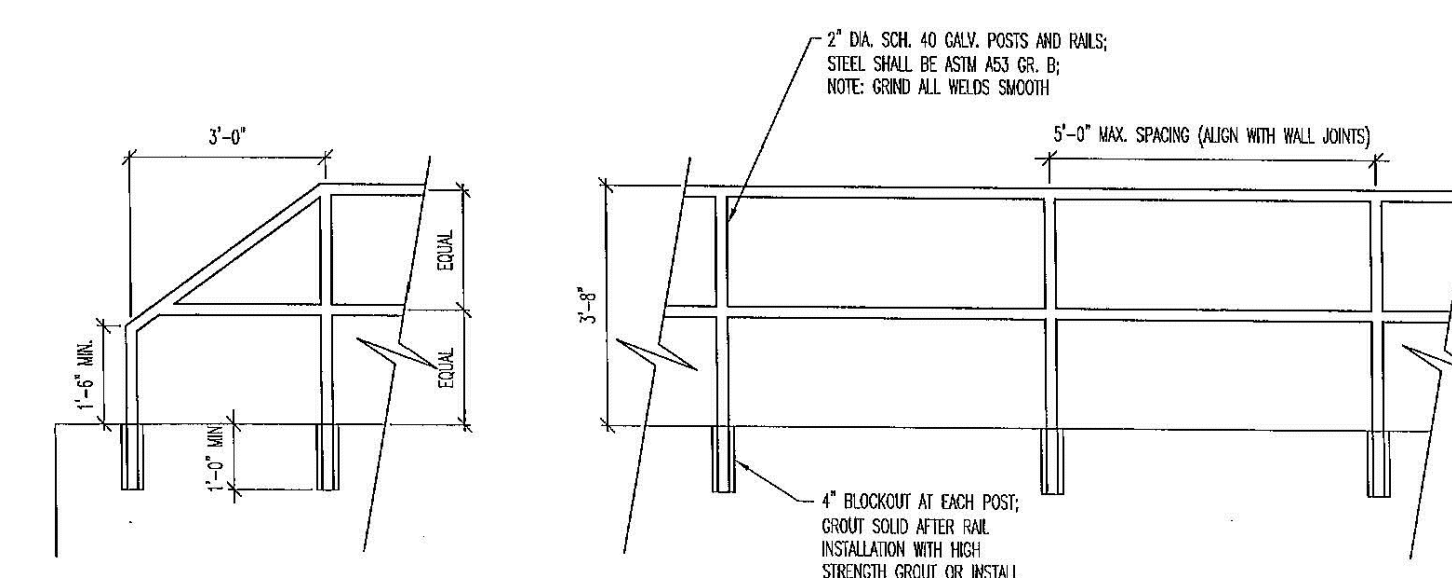


5'X4' OUTLET BOX OVERFLOW TRASH RACK
SCALE 1" = 2'



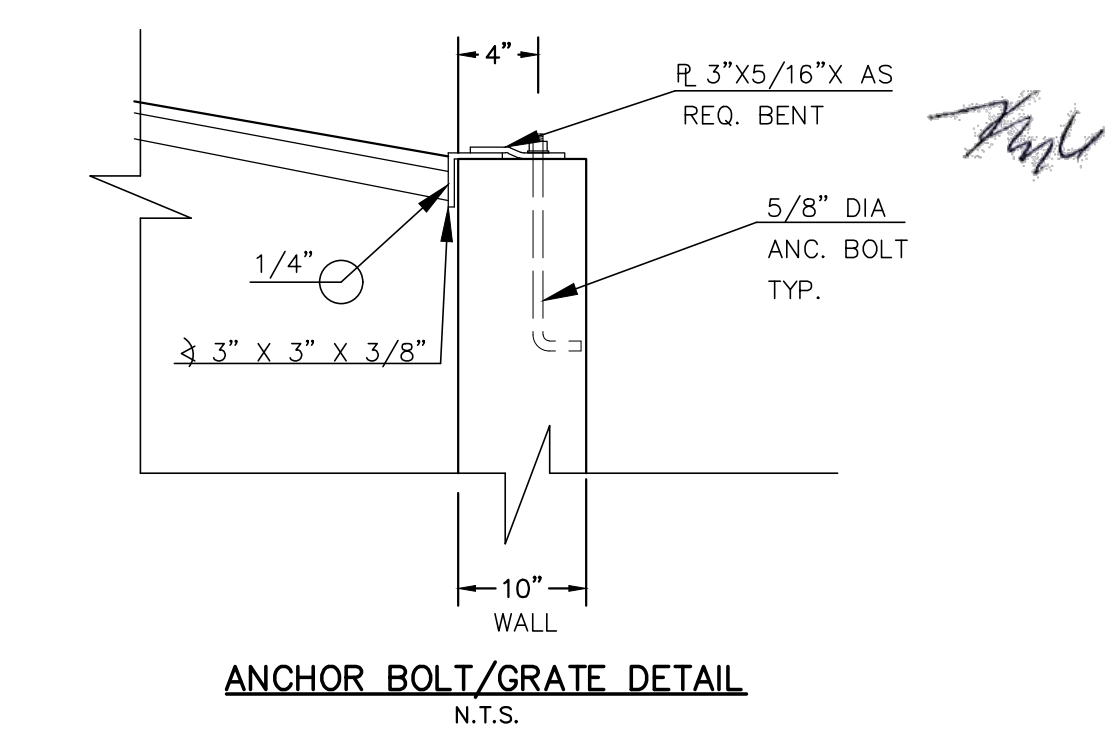
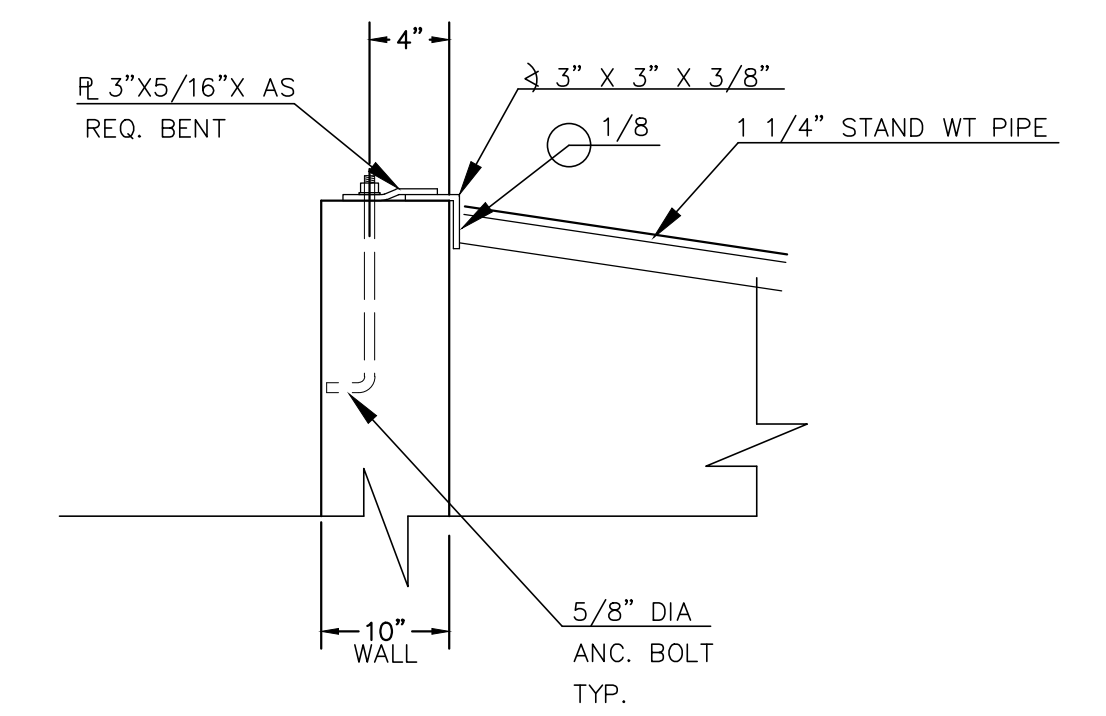
- STEEL FABRICATION NOTES:**
- FABRICATED STEEL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AISC AND AWS SPECIFICATIONS.
 - THE OUTLET STRUCTURE BARGRATE IS DESIGNED FOR A VERTICAL LOAD OF 300 LBS./SQ. FT.
 - ALL STRUCTURAL STEEL SHAPES TO INCLUDE: ANGLE, PLATE, AND BAR SHALL MEET ASTM A36 SPECIFICATIONS, 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.



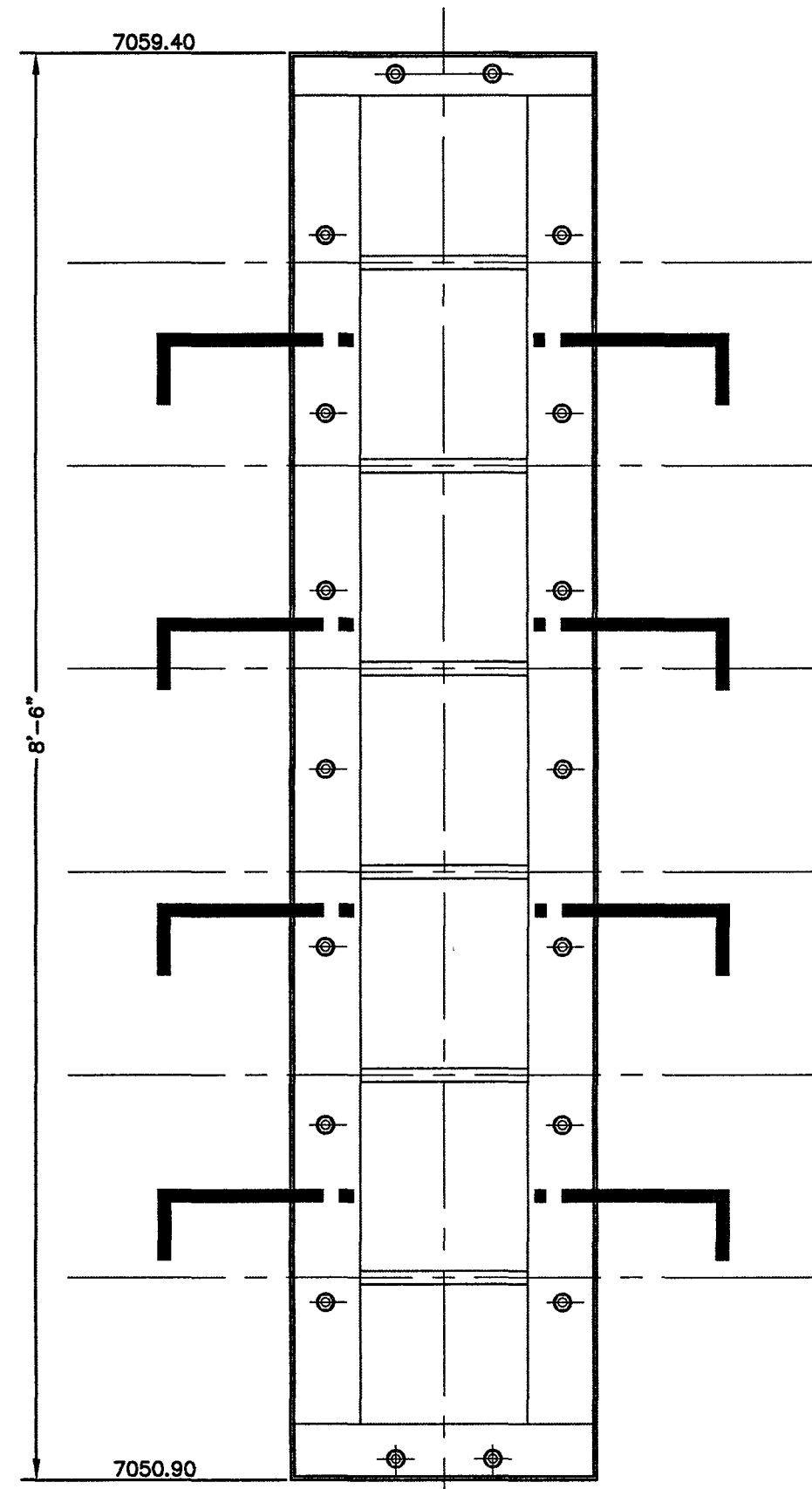
- NOTES:**
- WELD PLATES MAY BE SUBSTITUTED FOR PIPE EMBEDMENT. DESIGN CRITERIA SHALL BE IN ACCORDANCE WITH AASHTO STANDARDS.
 - HANDRAIL DESIGN SHALL BE COMPATIBLE WITH THE DESIGN OF THE WINGWALLS AND HEADWALLS.
 - RAILING POSTS SHALL BE SET TO NORMAL TO GRADE. RAILS SHALL RUN PARALLEL TO THE SLOPES 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.

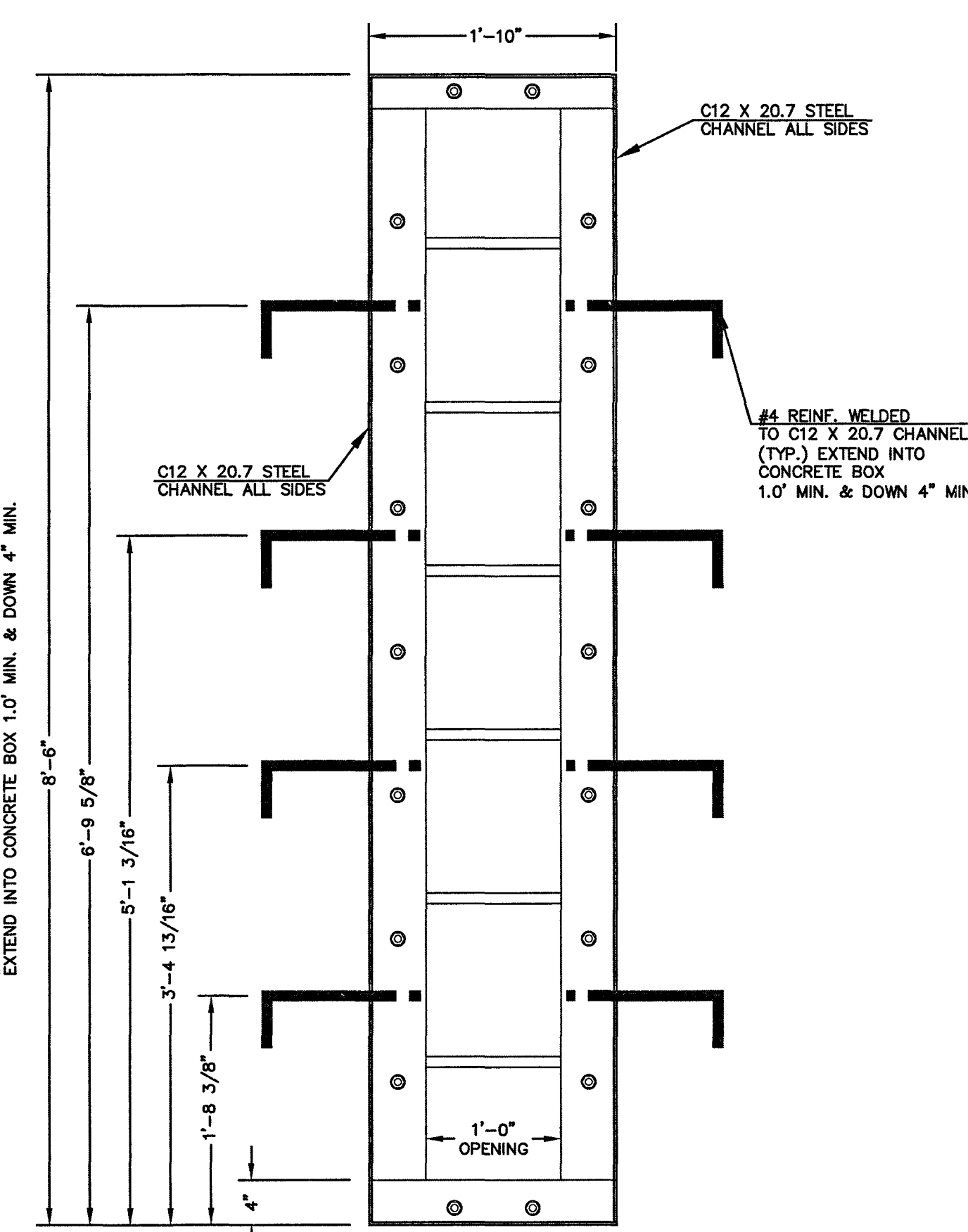


AS-BUILTS
01/05/2023
SF-20-027

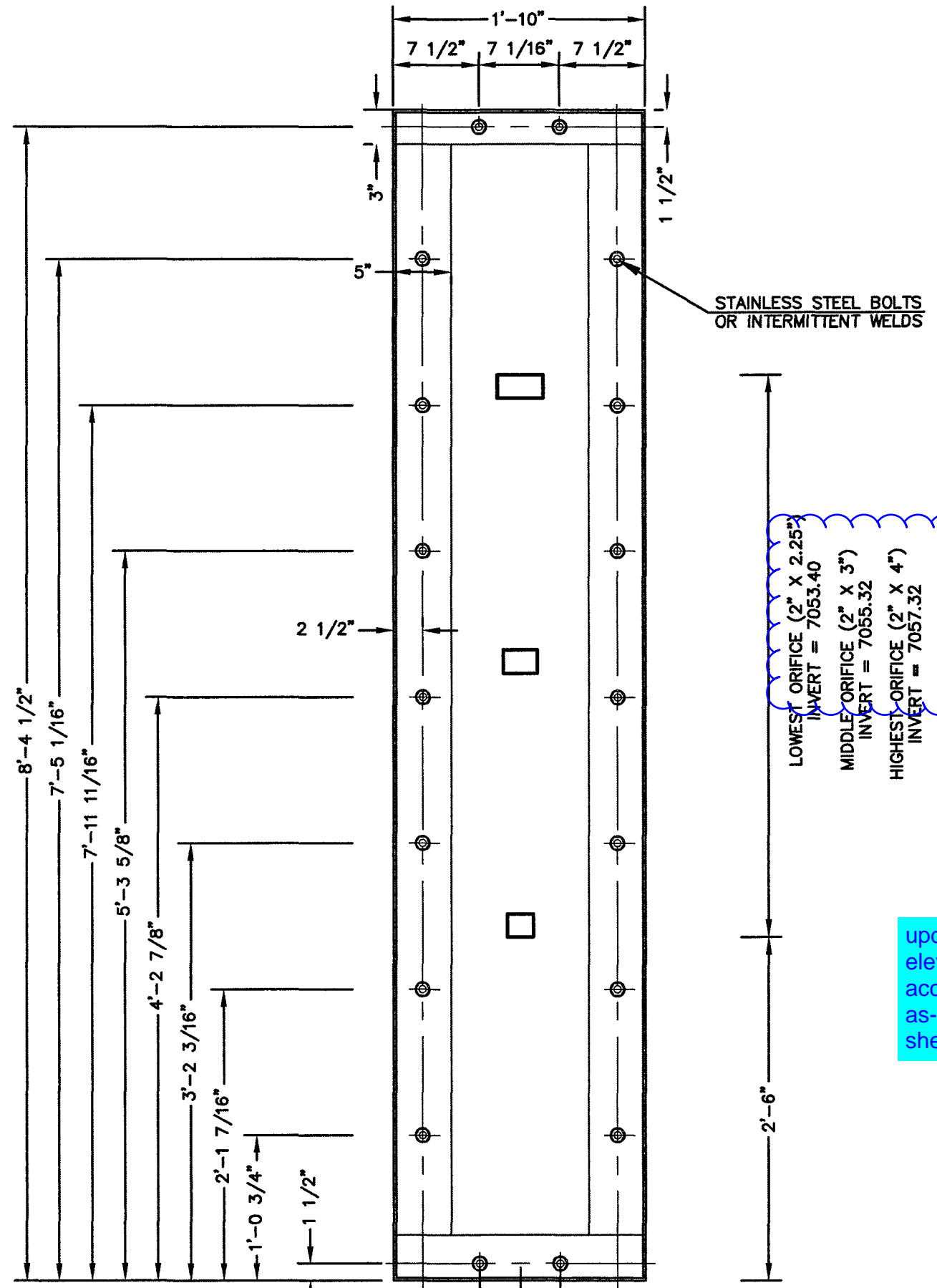
<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS</p> <p>811</p> <p>UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</p> <p>THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING 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>	<p>NO. REVISION</p> <p>DATE</p>	<p>REVIEW:</p> <p>PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <p><i>Kyle R. Campbell</i></p> <p>29754</p> <p>KYLE R. CAMPBELL, COLORADO, P.E. #29754</p>	<p>FOREST LAKES FILING NO. 6 CONSTRUCTION PLAN</p> <p>POND OUTLET BOX AND MICROPOOL DETAILS</p> <p>DESIGNED BY MAL SCALE DATE 08/04/2020</p> <p>DRAWN BY MES (H) 1" = 2' SHEET 26 OF 30</p> <p>CHECKED BY (V) 1" = N/A JOB NO. 1175.60</p>	<p>PCD FILE # SF-20-027</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>
	<p>CLASSIC CONSULTING</p>			



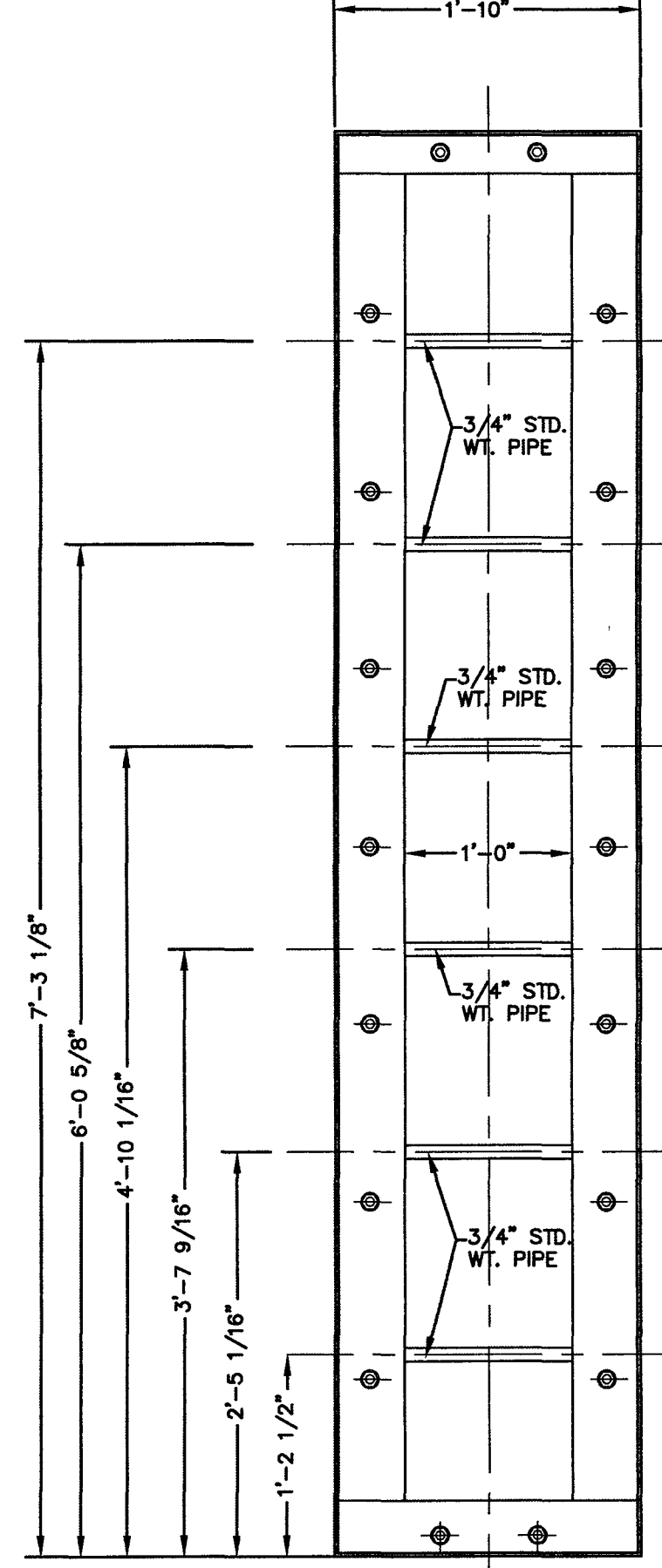
OUTLET CONTROL PLATE AND FRAME
SCALE: 1"=1'



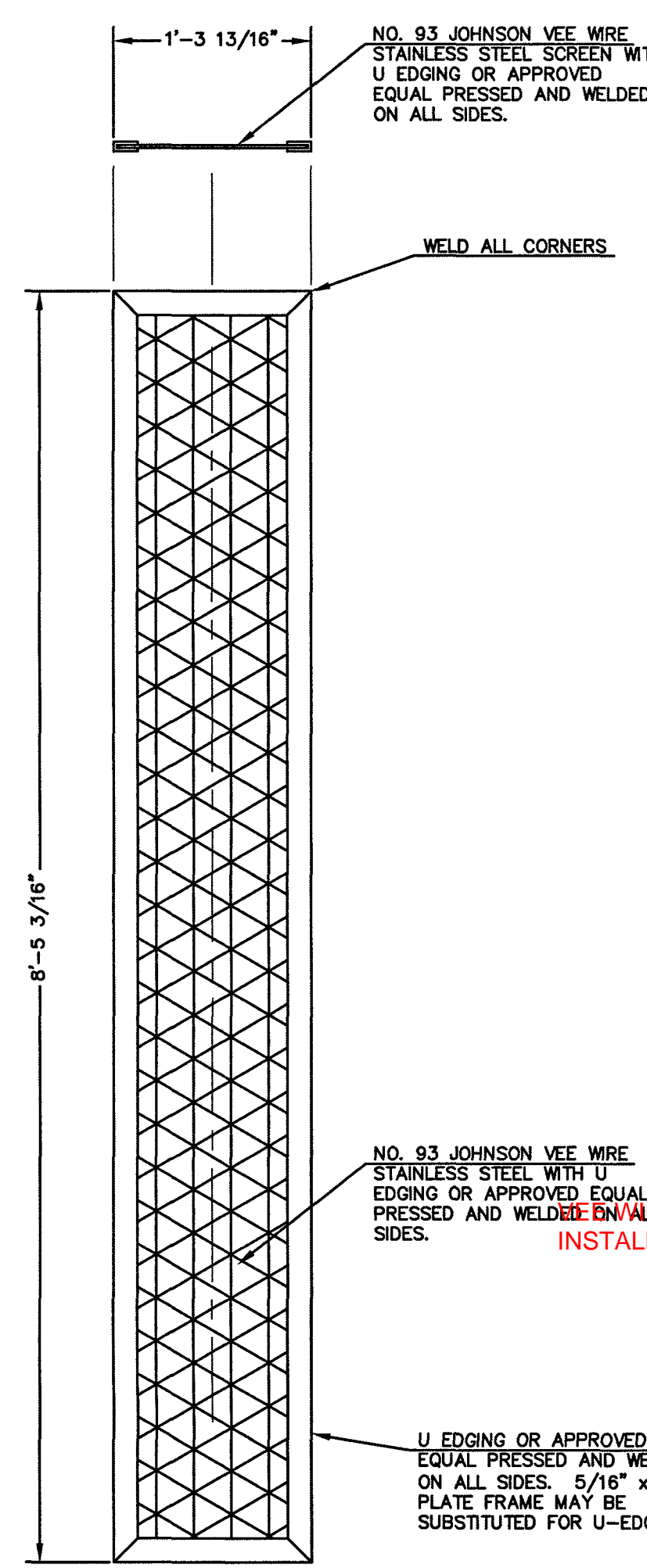
CHANNEL FRAME WITH WALL ANCHORS
SCALE: 1"=1'



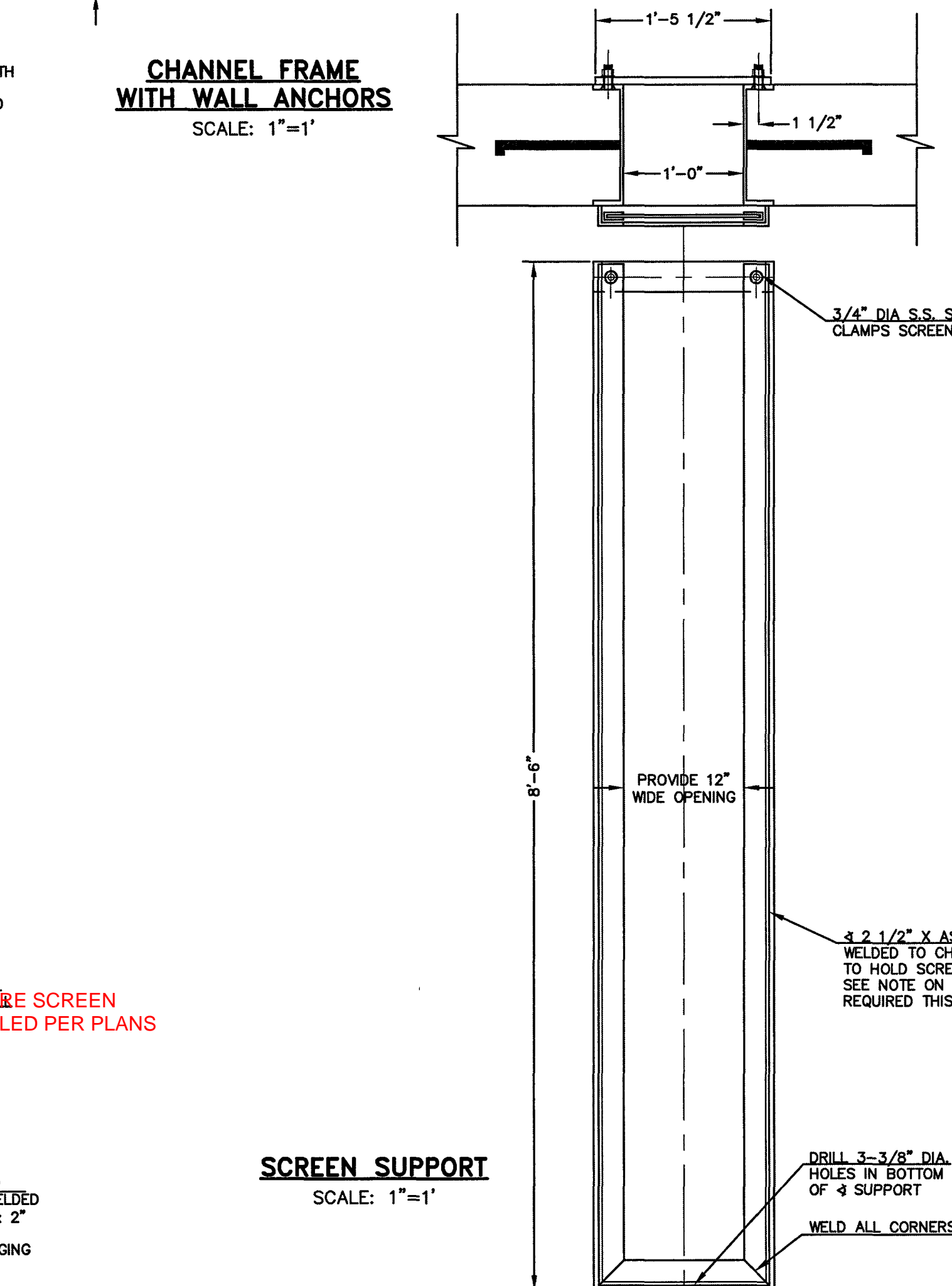
1/4" THICK ORIFICE PLATE
SCALE: 1"=1'



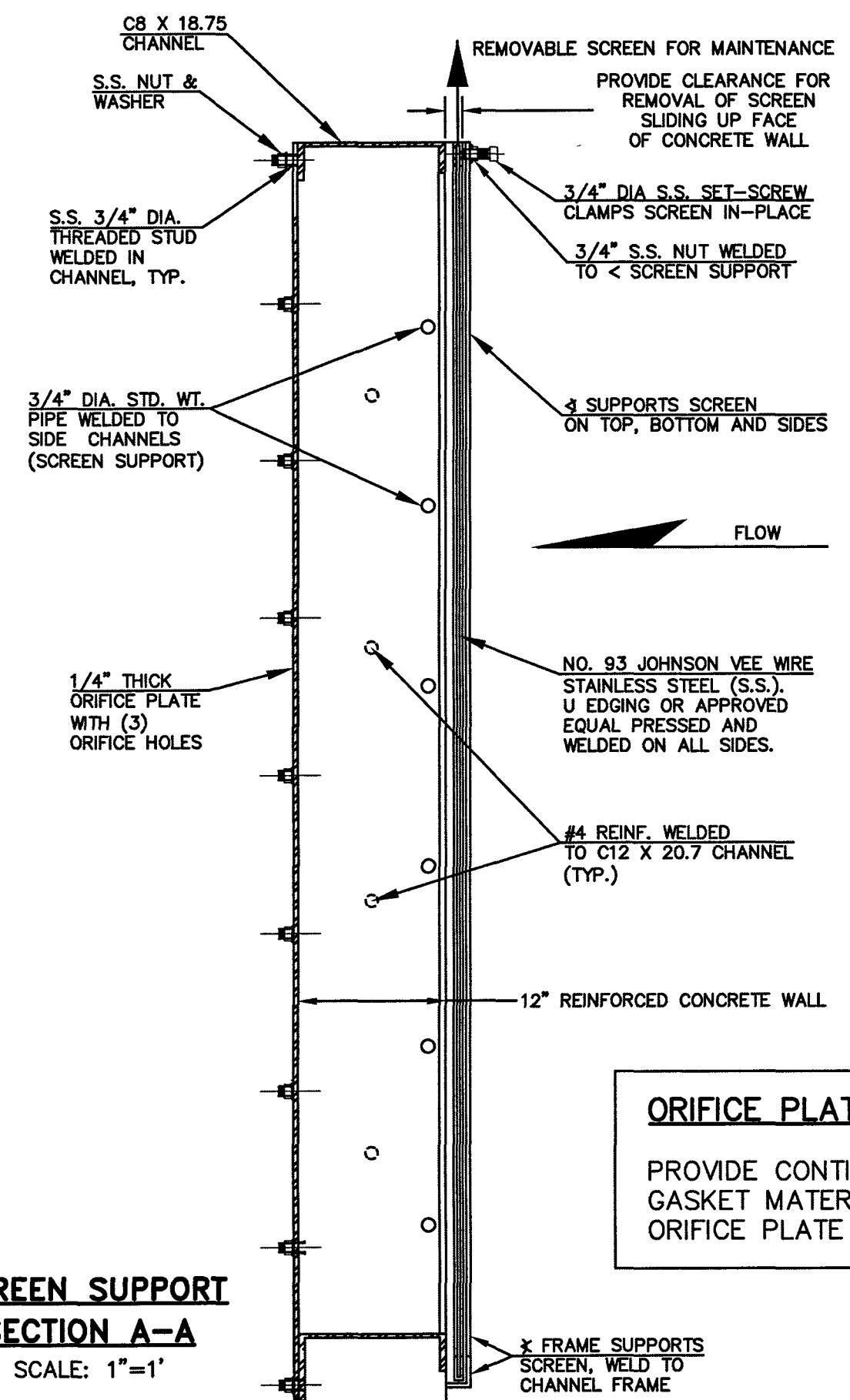
CHANNEL FRAME
SCALE: 1"=1'



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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01/05/2023
SF-20-027

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NO. REVISION	DATE	REVIEW:

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

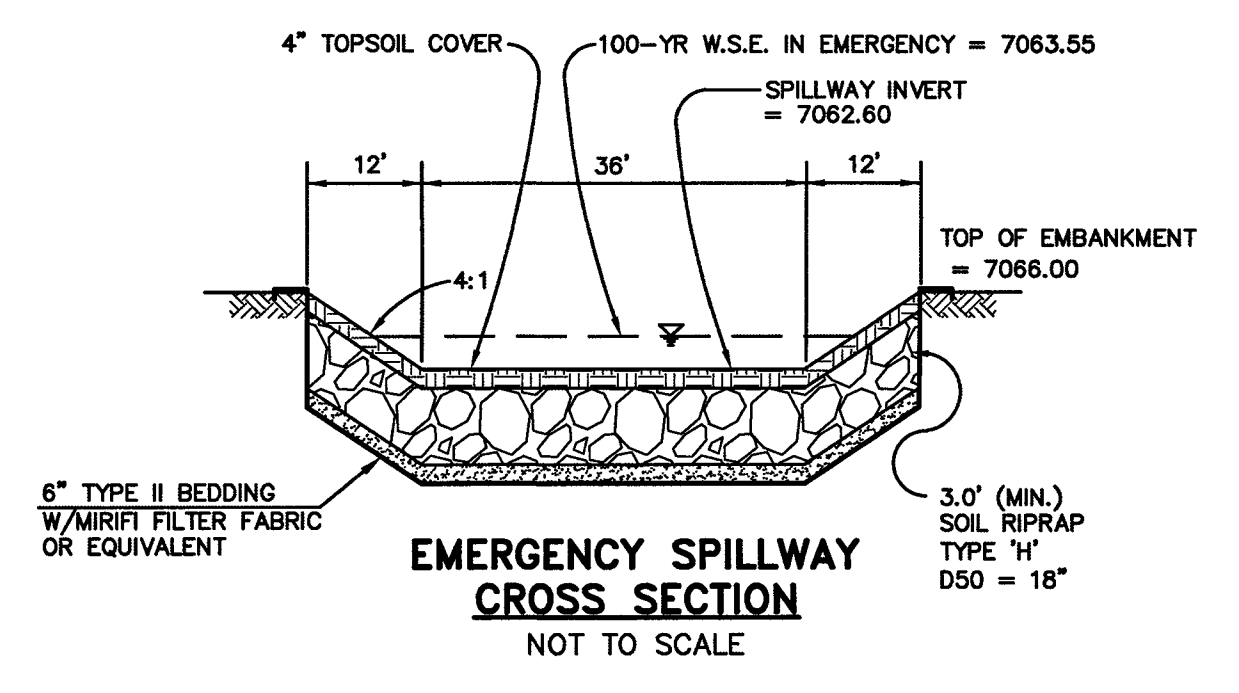
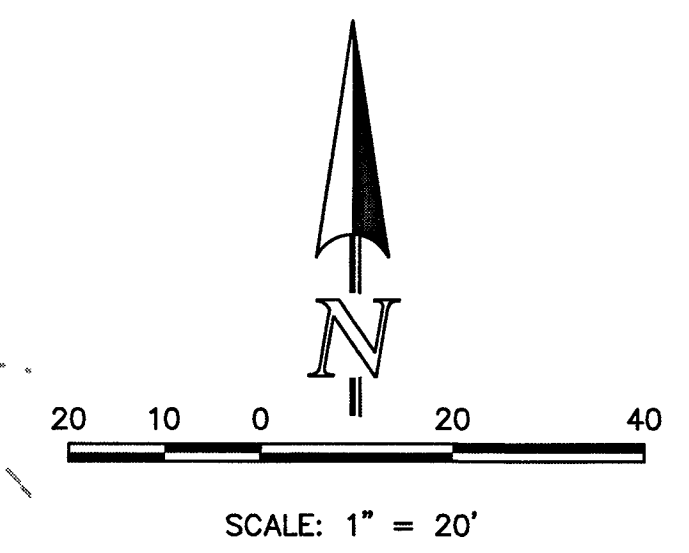
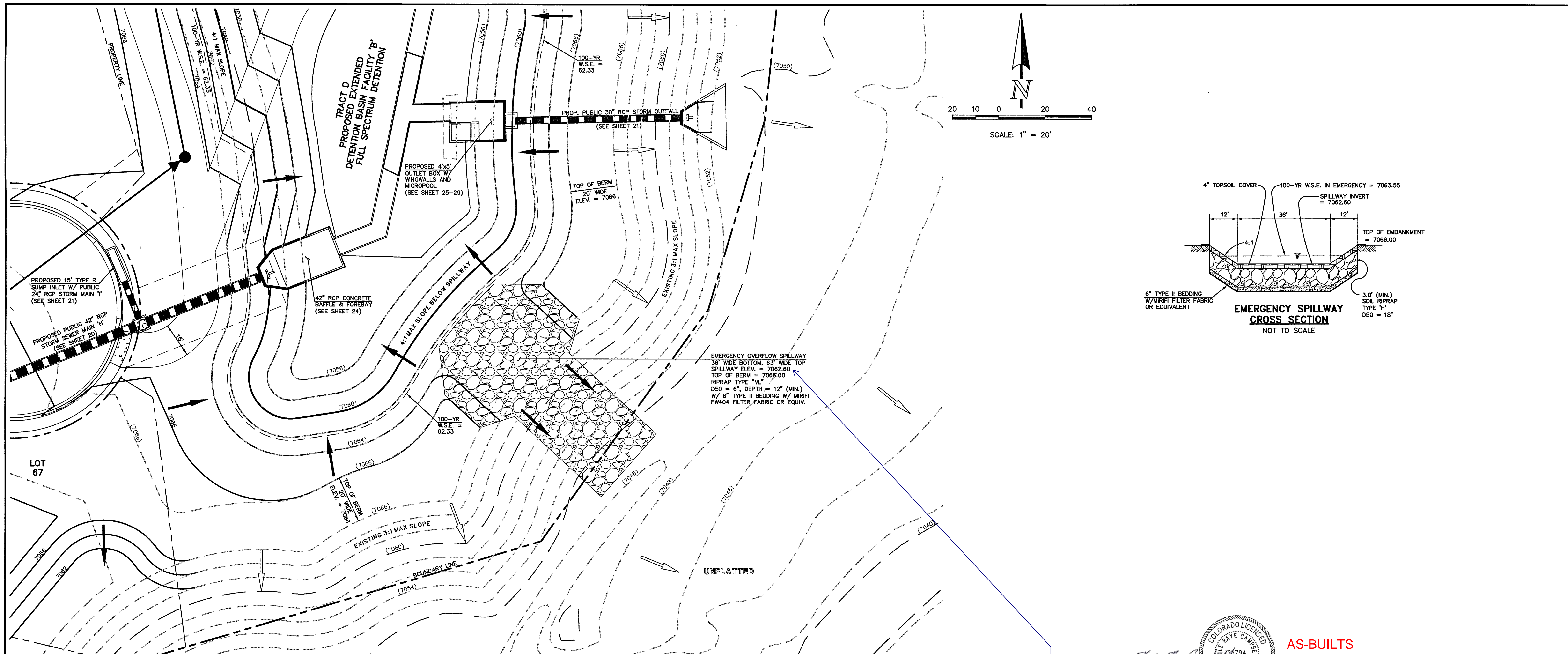
Kyle R. Campbell
KYLE R. CAMPBELL, COLORADO LICENSE #29794
DATE: 11/21/21



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

PCD FILE # SF-20-027

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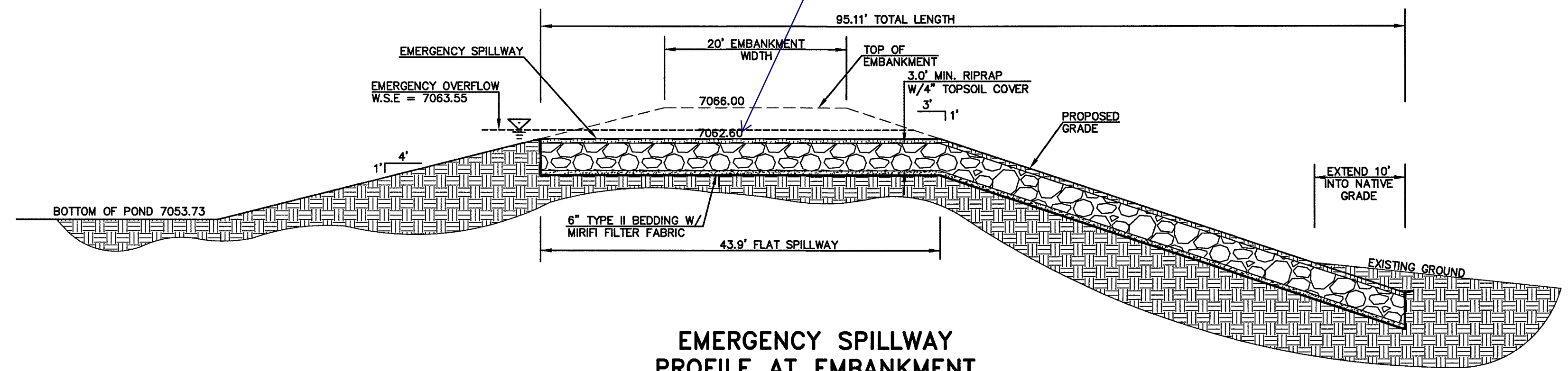


**EMERGENCY SPILLWAY,
EMBANKMENT, AND RUNDOWN
PLAN VIEW**
SCALE: 1" = 20'

update with the
as-built elevation
shown on sheet 22



AS-BUILTS
01/05/2023
SF-20-027



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

PCD FILE # SF-20-027

<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</p>	<p>FOREST LAKES FILING NO. 6 CONSTRUCTION PLAN</p> <p>POND SPILLWAY DETAILS</p> <table border="1"> <tr> <td>DESIGNED BY</td> <td>MAL</td> <td>SCALE</td> <td>DATE</td> </tr> <tr> <td>DRAWN BY</td> <td>MES</td> <td>(H) 1"=VARIES</td> <td>08/04/2020</td> </tr> <tr> <td>CHECKED BY</td> <td>(V) 1"= N/A</td> <td>SHEET 28 OF 30</td> <td>JOB NO. 1175.60</td> </tr> </table>	DESIGNED BY	MAL	SCALE	DATE	DRAWN BY	MES	(H) 1"=VARIES	08/04/2020	CHECKED BY	(V) 1"= N/A	SHEET 28 OF 30	JOB NO. 1175.60
	DESIGNED BY	MAL	SCALE			DATE											
DRAWN BY	MES	(H) 1"=VARIES	08/04/2020														
CHECKED BY	(V) 1"= N/A	SHEET 28 OF 30	JOB NO. 1175.60														
			<p>DATE: 09/21</p>														

N:\17560\CD\WMO\CONSTRUCTION\STORM\28-117560-SM-11-spillway details.dwg, 4/5/2021 2:36:18 PM, 1:1

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.
- REINFORCING IN ROCK SHALL BE PLACED OUT TO ROCK AND NOT FORMED IN ACCORDANCE WITH SECTION 601.00(A).
- EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4".
- HEADWALL SHALL HAVE REINFORCING STEEL INSTALLED TO A POINT SIMILAR TO STANDING PLAN M-601-10.
- THE COST OF REINFORCING STEEL SHALL BE INCLUDED IN THE BIDDING UNLESS THE STEEL QUANTITIES ARE LISTED IN THE PLANS AND ARE PAID FOR SEPARATELY.

CONCRETE QUANTITIES FOR ONE CONCRETE HEADWALL (CUBIC YARDS)

PIPE TYPE	PIPE DIAMETER (AND EQUIVALENT DIAMETER) IN								
	18	24	30	36	42	48	54	60	
CIRCULAR	ROD	1.0	1.3	1.5	2.0	2.7	3.8	5.6	8.0
	FLEXIBLE	1.1	1.4	1.6	2.1	2.8	4.0	5.8	8.0
ELLIPTICAL	ROD	23 x 14	30 x 19	38 x 24	45 x 29	53 x 34	60 x 38	68 x 42	76 x 46
	ARCH METAL	0.9	1.2	1.3	1.6	1.7	2.2	3.3	4.4
ARCH	ROD	22 x 13	29 x 18	36 x 22	43 x 27	50 x 31	58 x 36	66 x 40	74 x 44
	METAL	0.9	1.3	1.4	1.9	2.4	3.4	4.4	5.0

PIPE OUTLET PAVING (CUBIC YARDS)

NOTE: VOLUME OCCUPIED BY PIPE HAS BEEN DEDUCTED.

THICKNESS	MATERIAL	PIPE DIAMETER (IN)		
		18	24	30
4"	CONCRETE	0.4	0.8	1.2
6"	CONCRETE	0.6	1.2	1.8
8"	RIPRAP	2.0	3.5	5.4

CONCRETE HEADWALL DIMENSIONS

D = PIPE DIAMETER (INSIDE)
H = D + 30"
W = 3D + 36"
T = 0.4 H (NEAREST IN)
B = 1.5 D (MINIMUM)
L = W + B

ARCH OR ELLIPTICAL HEADWALL DIMENSIONS

D = EQUIVALENT CIRCULAR DIAMETER (INSIDE)
H = RISE + 30"
W = 3D + 36"
T = 0.4 H (NEAREST IN)
B = 1.5 D (MINIMUM)
L = W + B

Computer File Information

Creation Date: 07/04/12
Last Modification Date: 07/04/12
Drawing File Name: 60102010.dwg
CAD User: Mordison V8
Scale: Not to Scale
Units: English

Sheet Revisions

Dates: _____
Comments: _____

Colorado Department of Transportation

4201 East Arkansas Avenue
Denver, Colorado 80222
Phone: (303) 757-9000
Fax: (303) 757-9800

Project Development Branch DD/LTA

HEADWALLS AND PIPE OUTLET PAVING

Issued By: Project Development Branch July 4, 2012

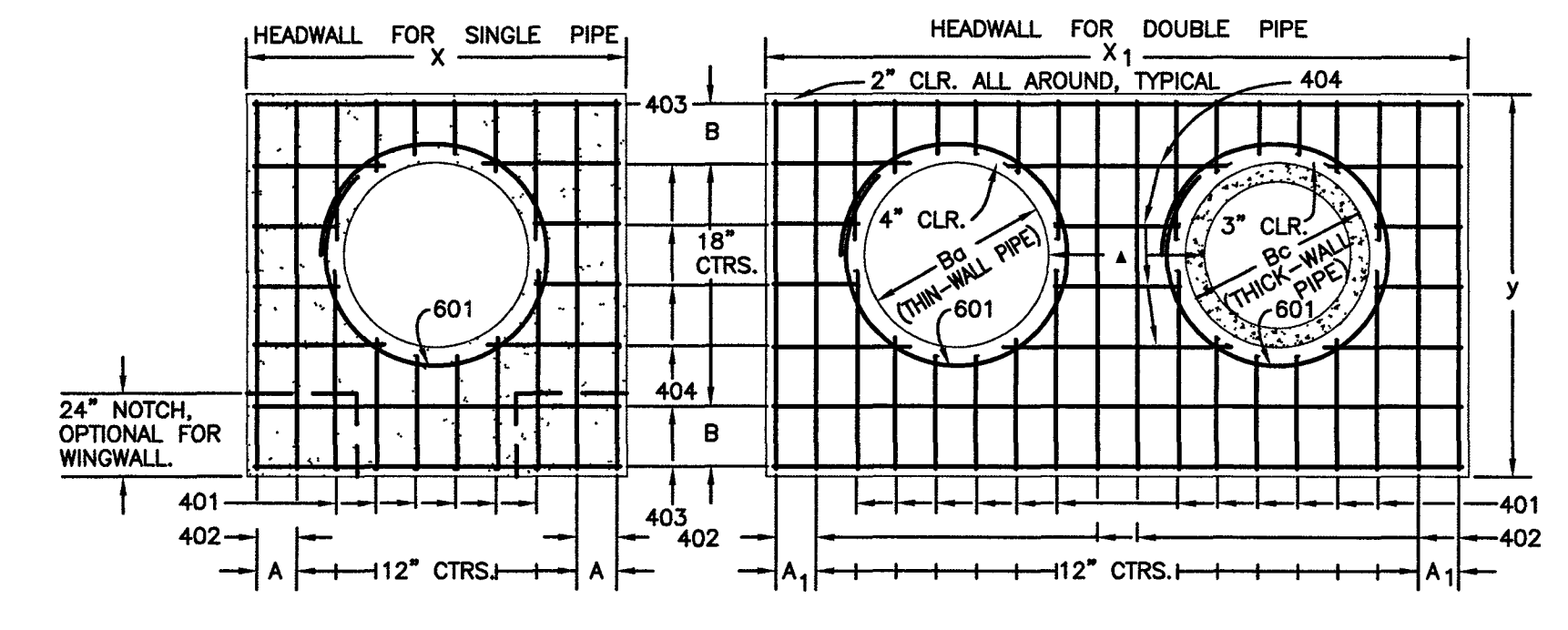
STANDARD PLAN NO.

M-601-12

Sheet No. 1 of 1

CDOT M-601-12 HEADWALL DETAIL

- GENERAL NOTES**
- ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4".
 - WINDOW FOOTINGS AND FLOOR OF BOX CULVERT SHALL BE PLACED MONOLITHICALLY.
 - DIMENSIONS "T", "B", "R", "R", "T", "T", "T" AND ANGLES FOR HEADWALLS SHALL BE AS SHOWN ON THE PLANS.
 - REINFORCING STEEL SHALL BE GRADE 60.
 - THE MINIMUM SPACING LENGTH FOR COMMON BAR SIZES SHALL BE:
- | BAR | #4 | #5 | #6 |
|----------------|-------|-------|-------|
| SPACING LENGTH | 1'-3" | 1'-2" | 2'-0" |



DIMENSIONS

Ba	Bc	X	A	X1	A1	Y	B	X2
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

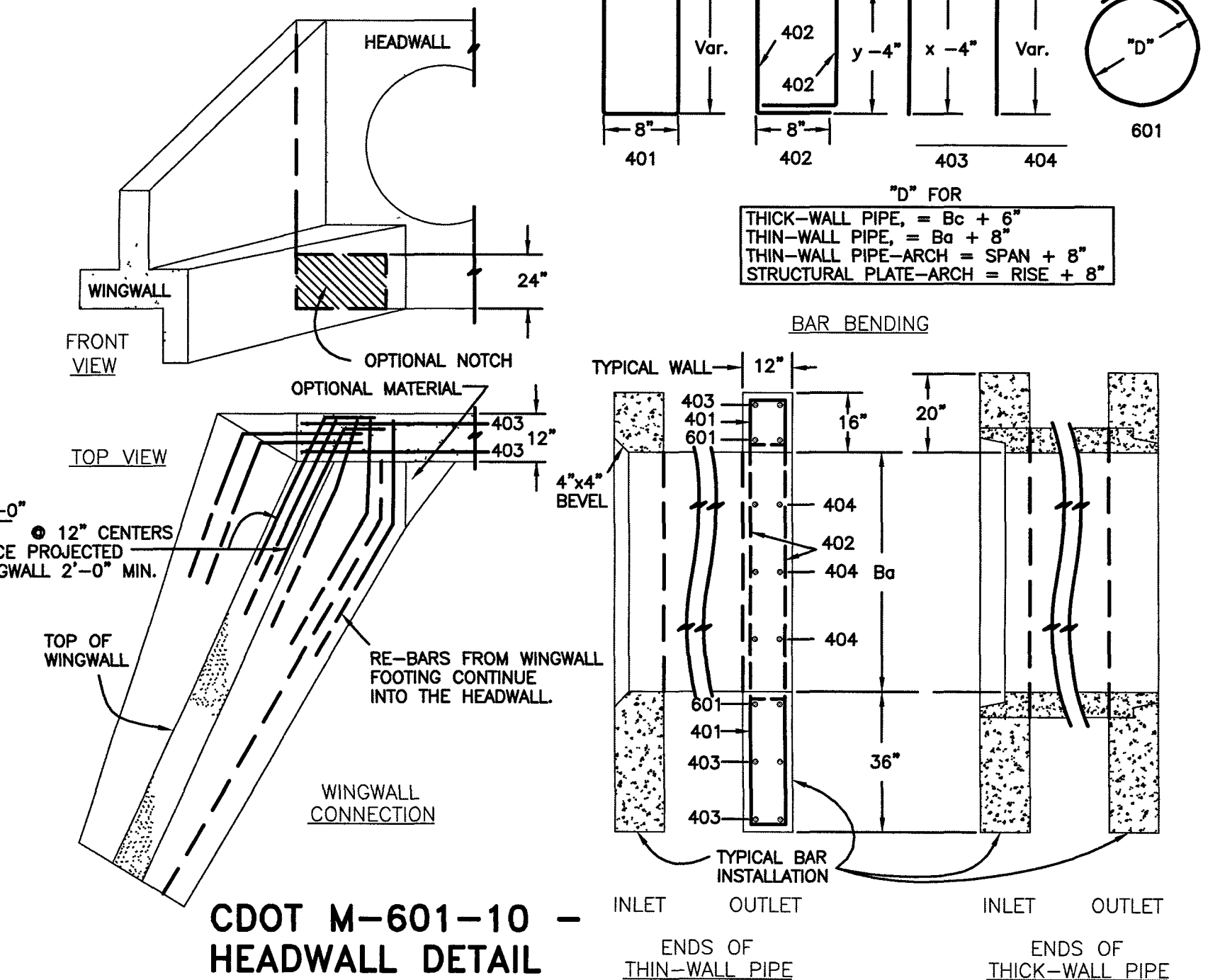
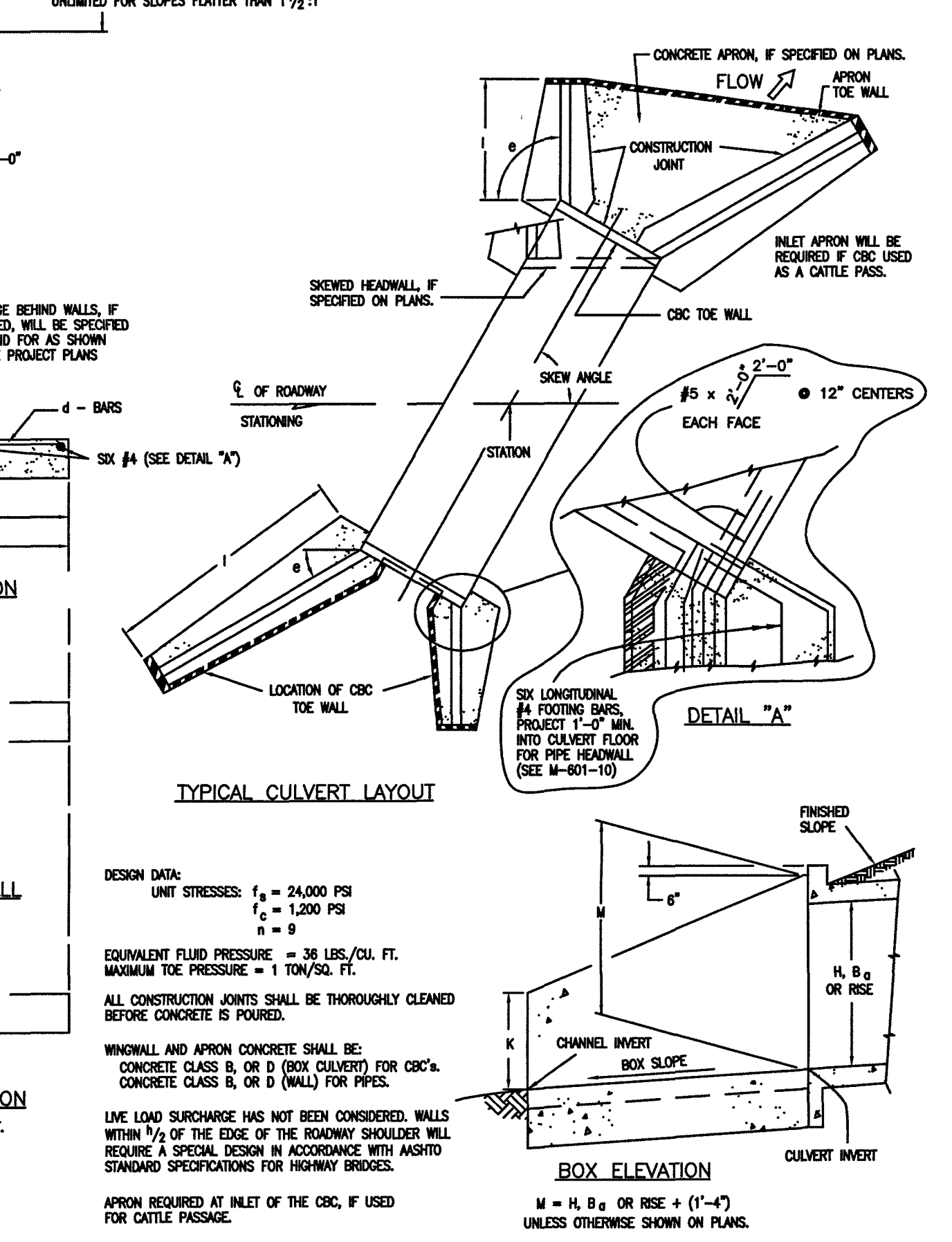
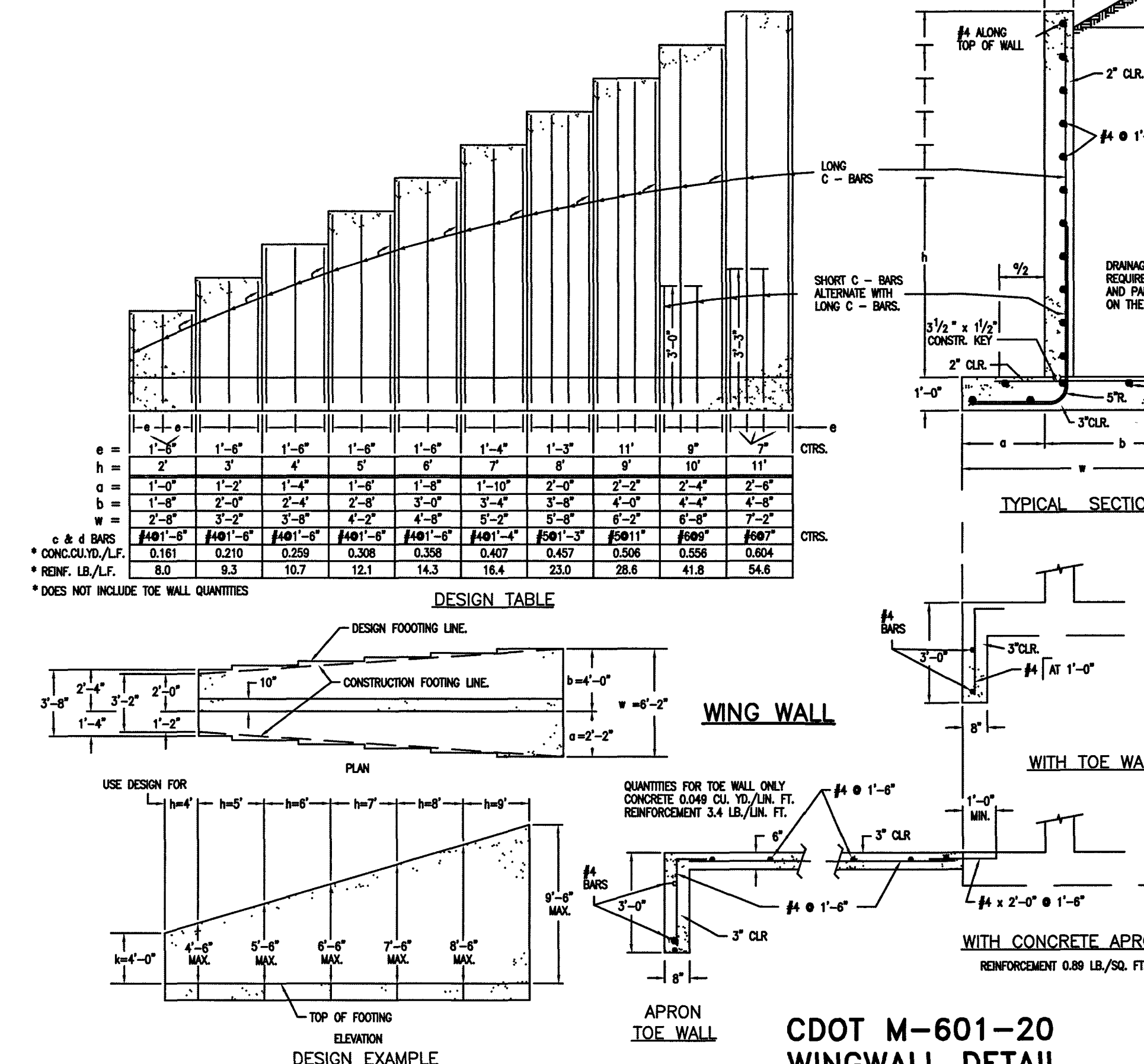
QUANTITIES

CONCRETE	STEEL
SGL	DBL
INT	CONC
CU YD	LB
1.85	1965
2.12	2093
2.35	2364
2.60	2494
2.85	2707
3.11	3065
3.38	3333
3.68	3553
3.94	3793
4.24	4006
4.54	4241

HEADWALL FOR THICK-WALL ROUND PIPE

THICK-WALL PIPE = Bc + 6"
THIN-WALL PIPE = Ba + 8"
STRUCTURAL PLATE-ARCH = RISE + 8"

- GENERAL NOTES**
- CONCRETE SHALL BE CLASS B.
 - HEADWALL SHALL BE PERPENDICULAR TO THE CULVERT UNLESS OTHERWISE SHOWN ON THE PLANS. TABULATED DIMENSIONS AND QUANTITIES MUST BE ADJUSTED FOR SKEWED INSTALLATIONS.
 - FOR WINDOW 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,
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NO.	REVISION	DATE

REVIEW:

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

Kyle R. Campbell

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

DATE: 08/04/2020

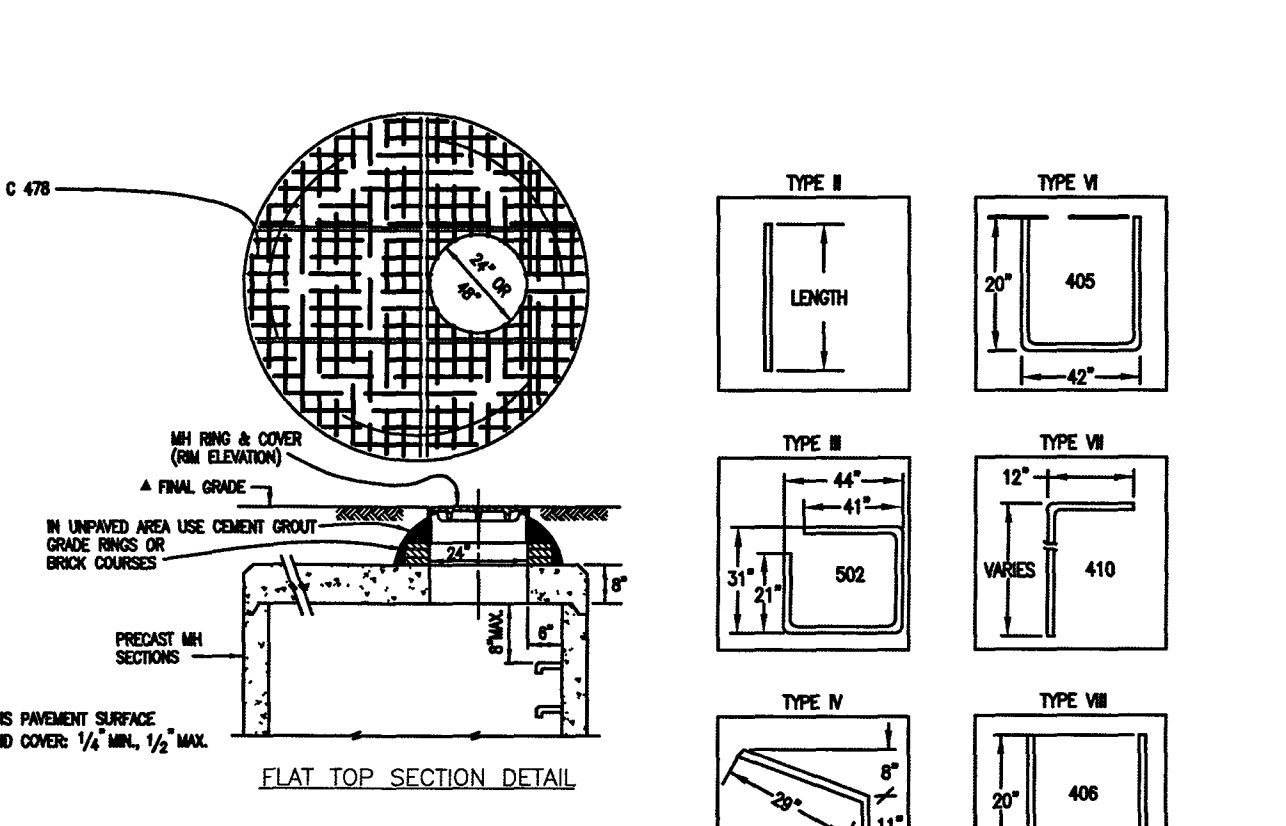
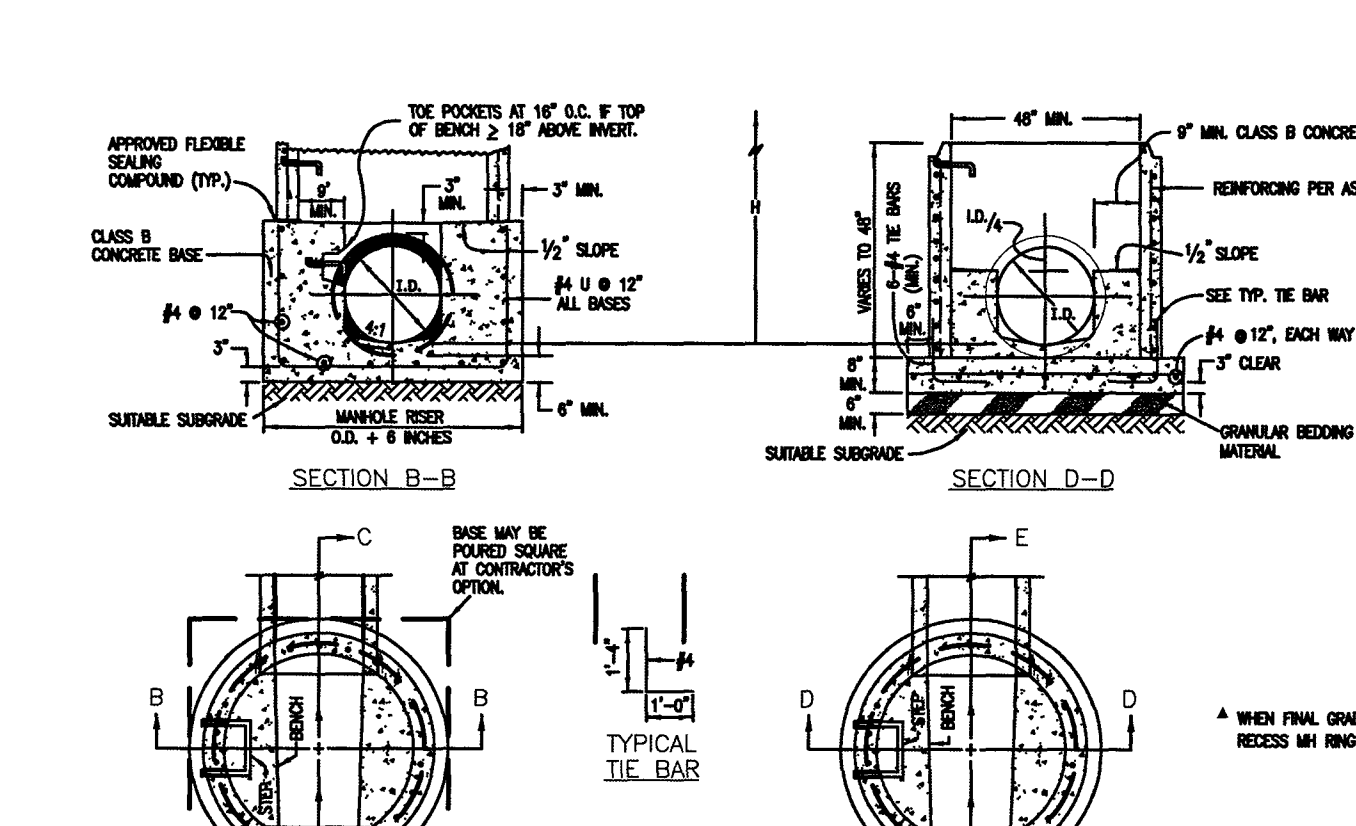
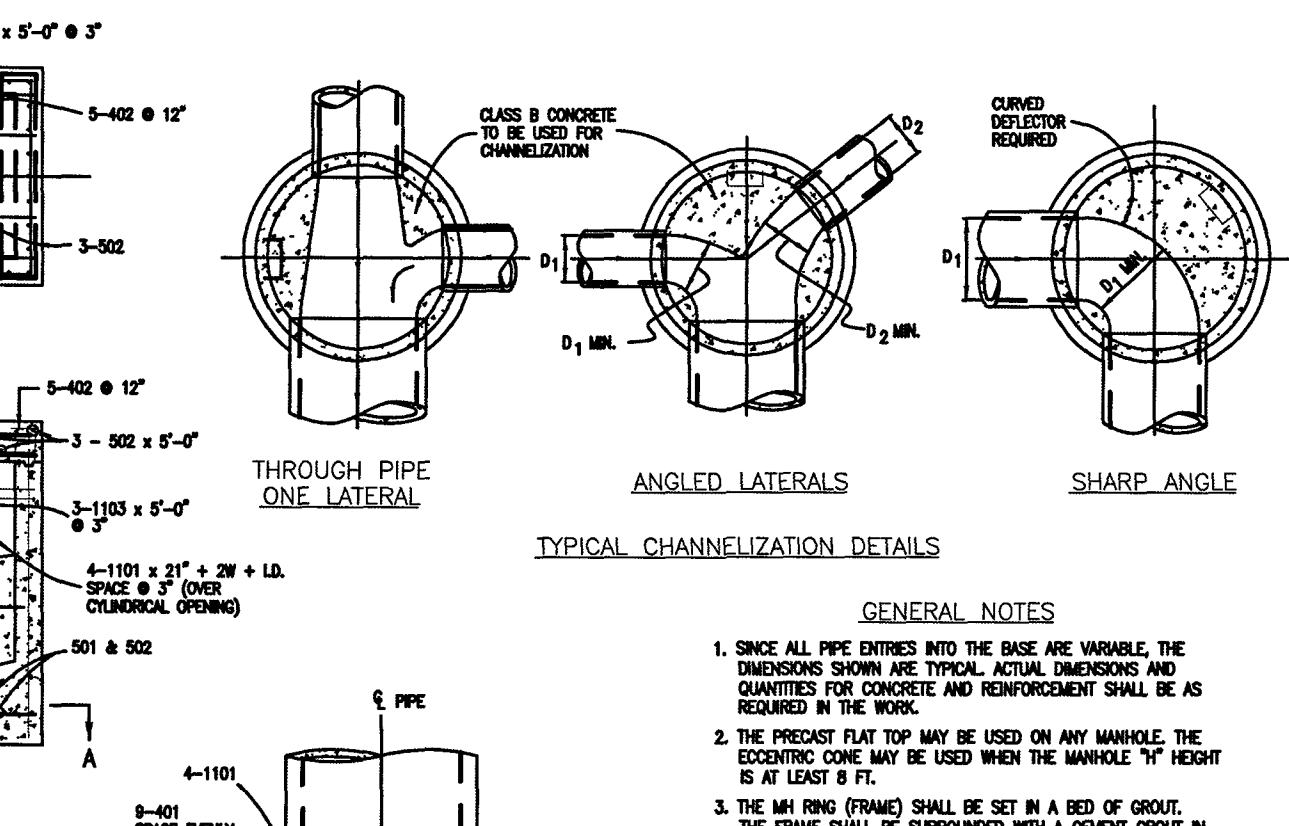
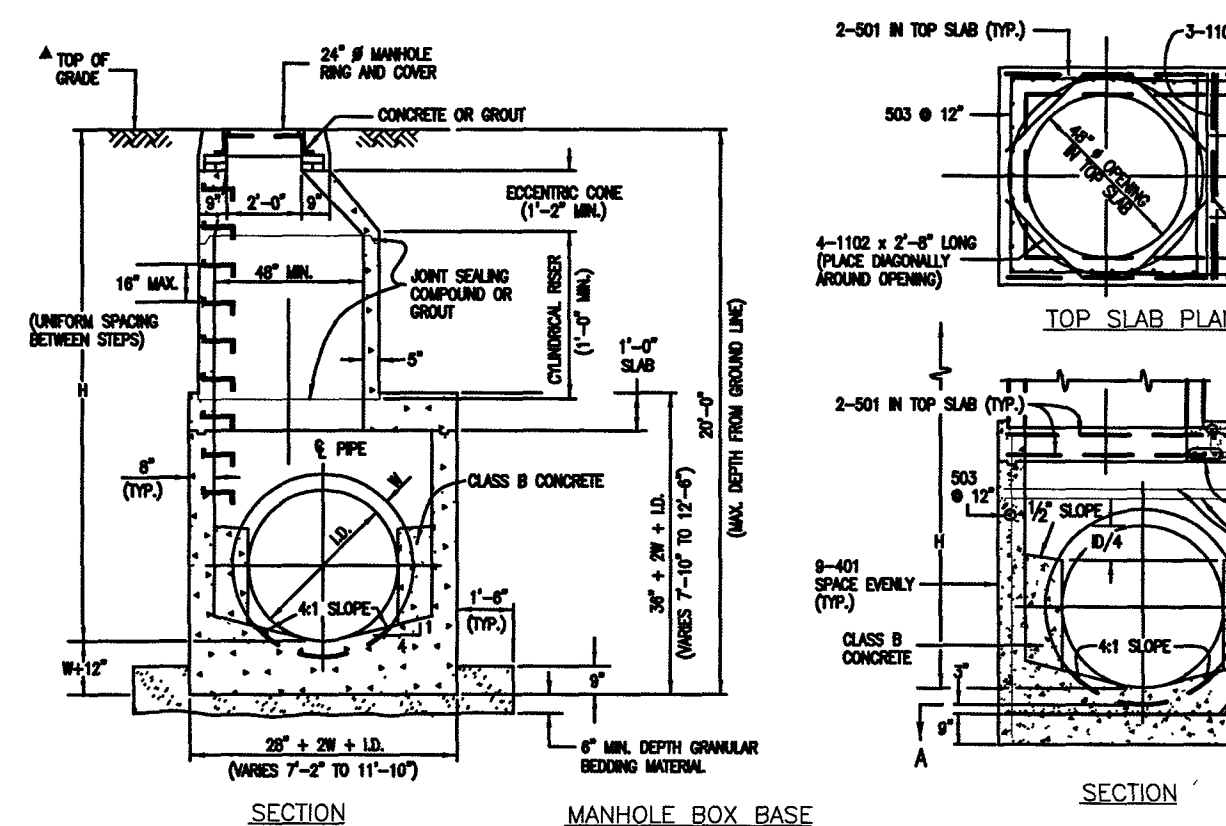


FOREST LAKES FILING NO. 6
CONSTRUCTION DRAWINGS

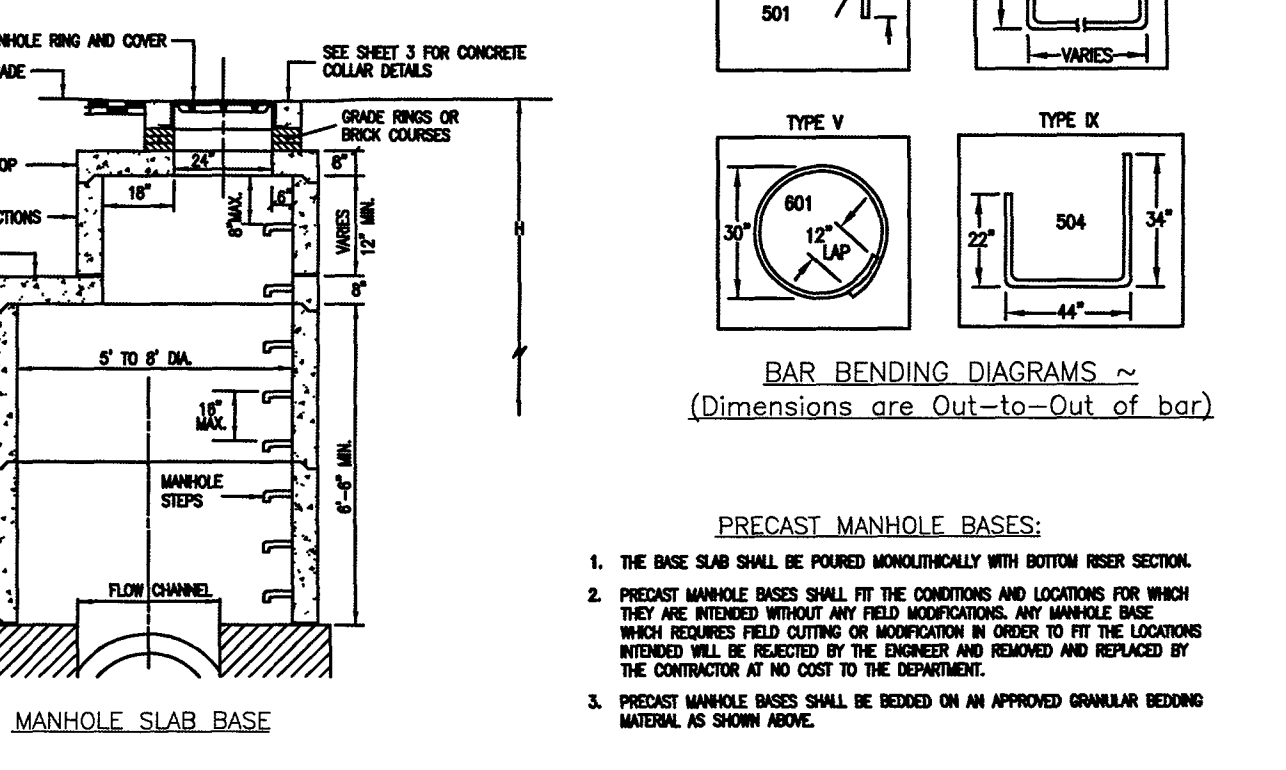
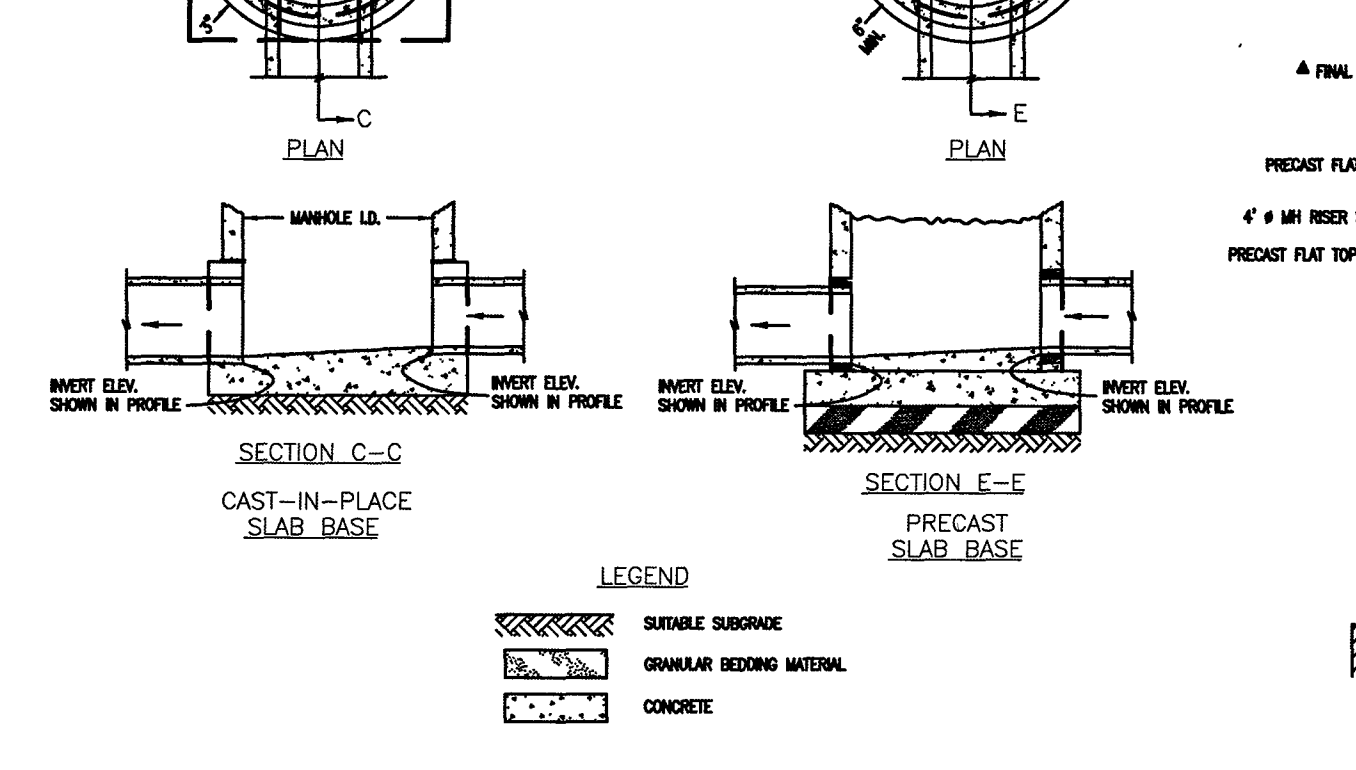
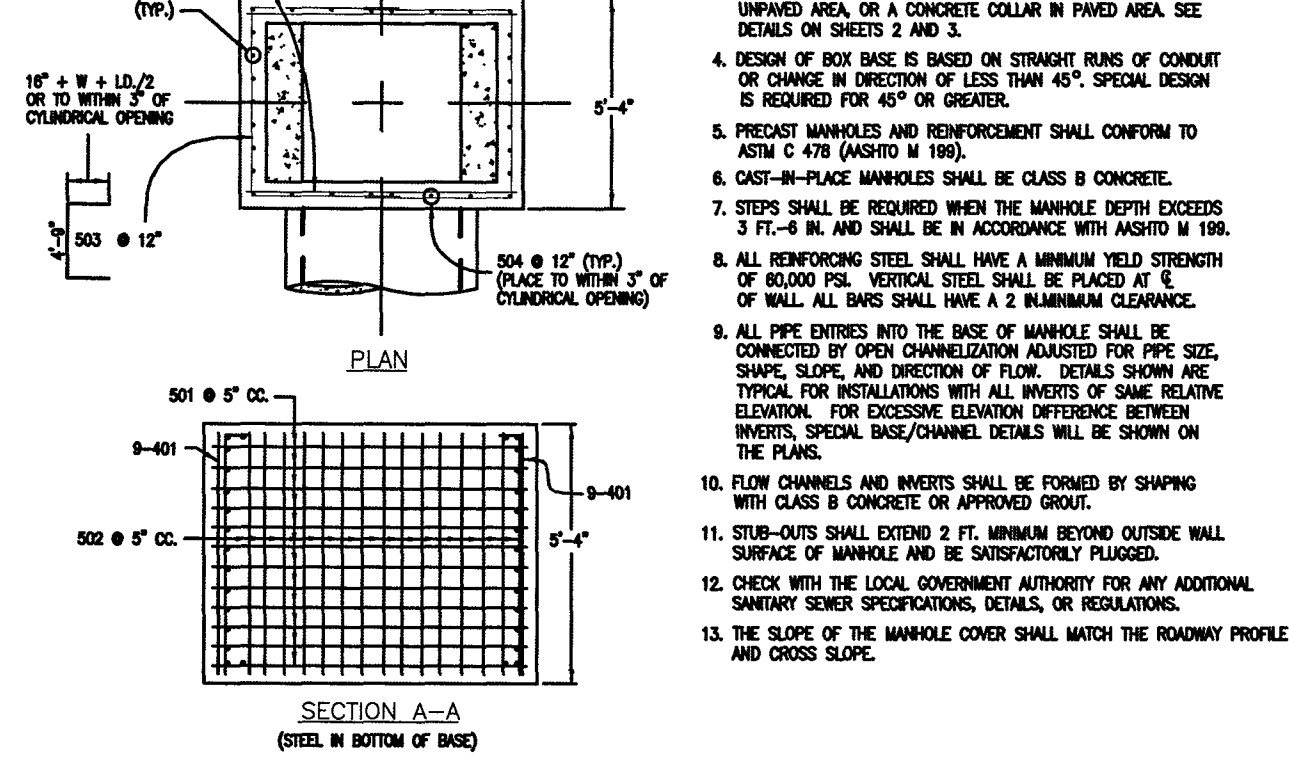
DETAILS SHEET

DESIGNED BY	MAL	SCALE	DATE
			08/04/2020
DRAWN BY	MES	(H) 1" = N/A	SHEET 29 OF 30
CHECKED BY	(V) 1" = N/A	JOB NO.	1175.60

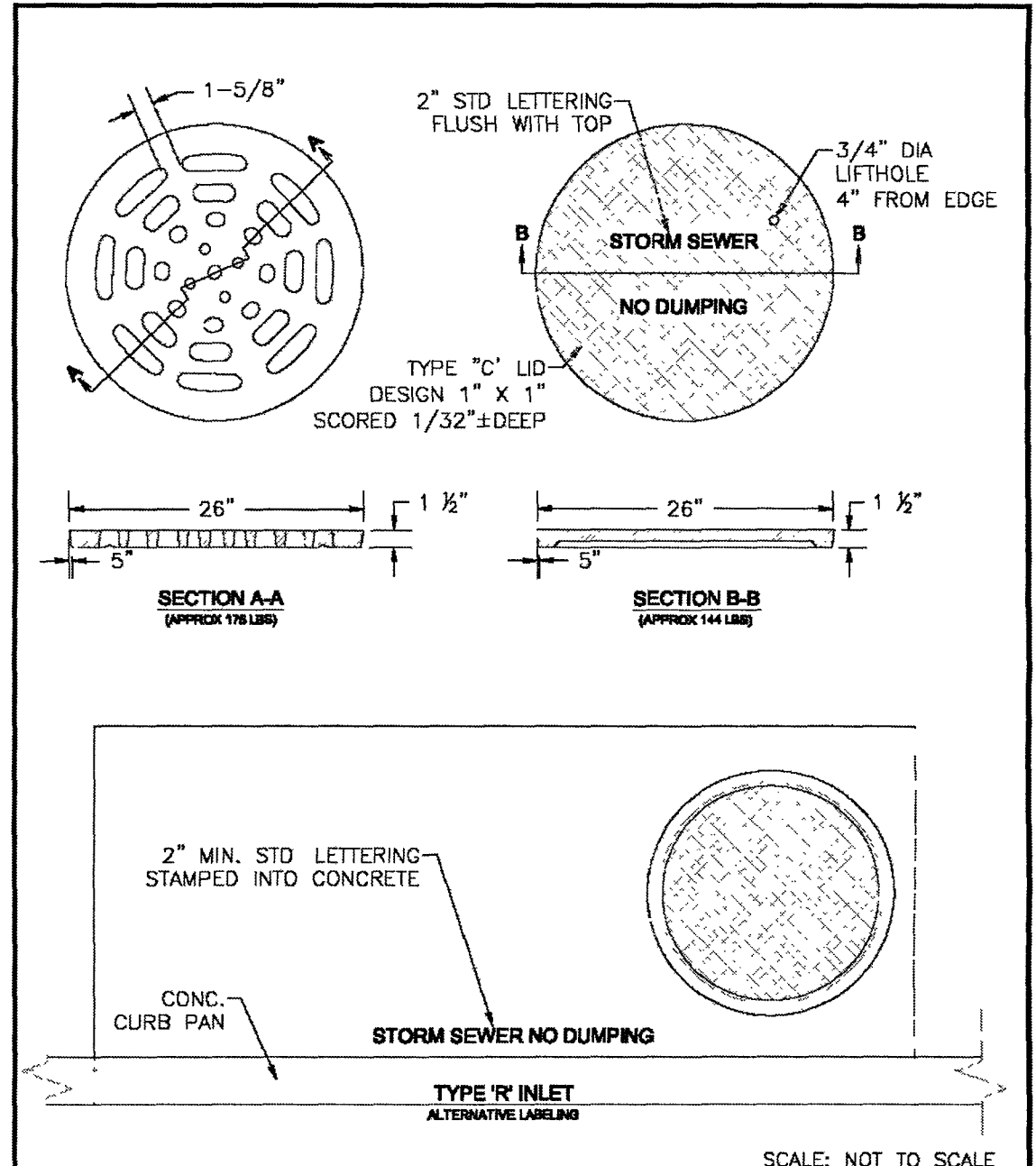




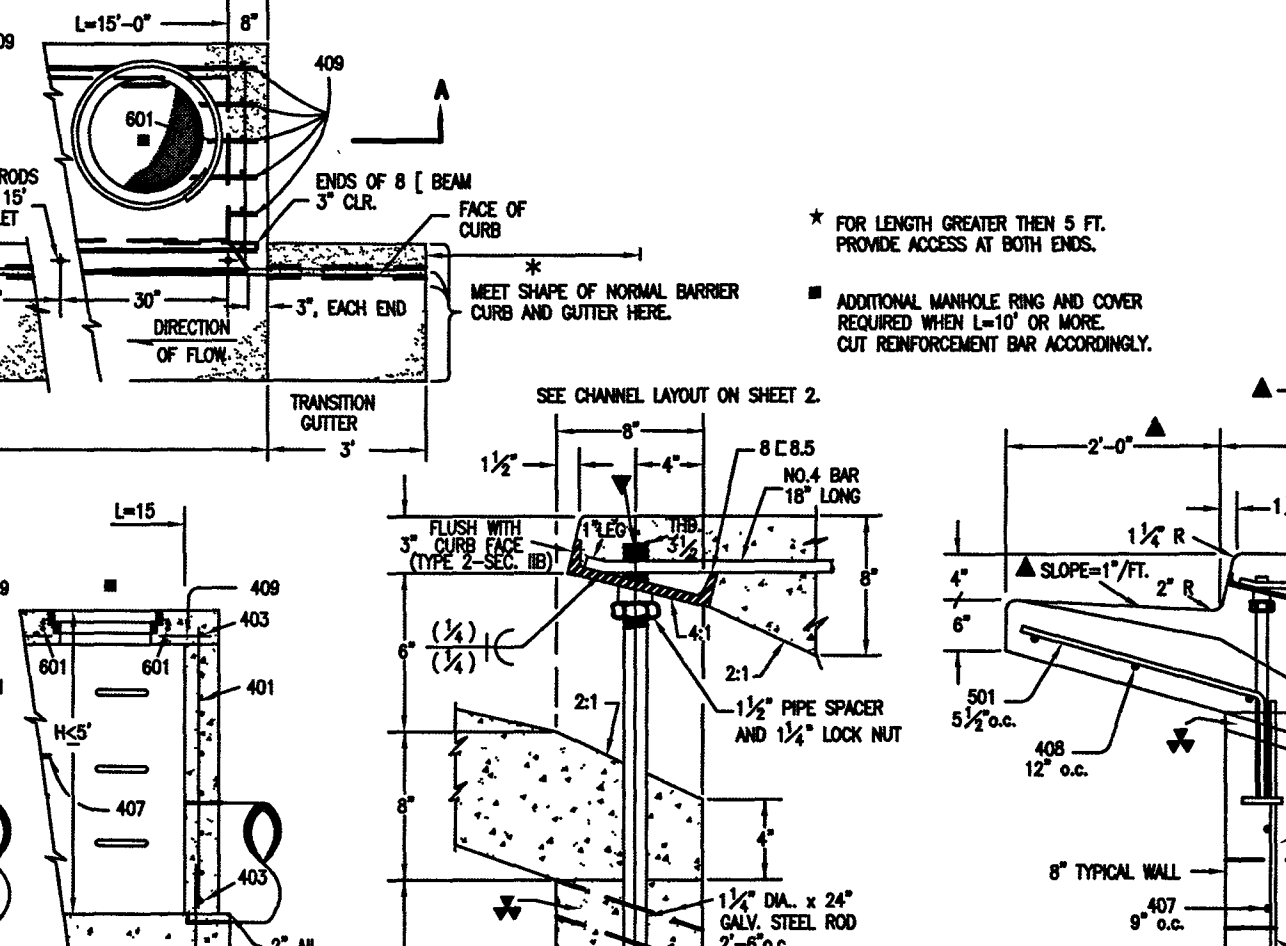
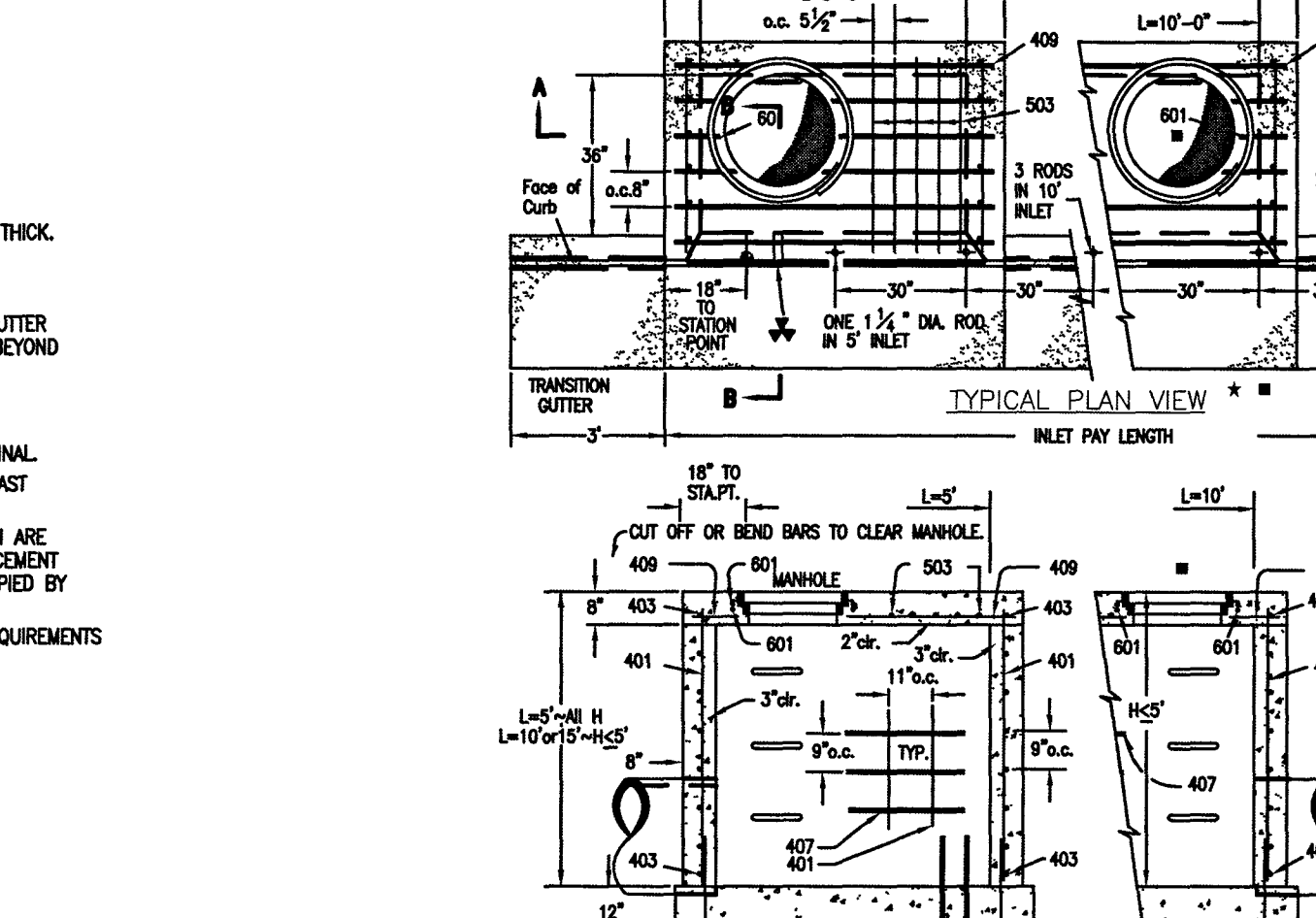
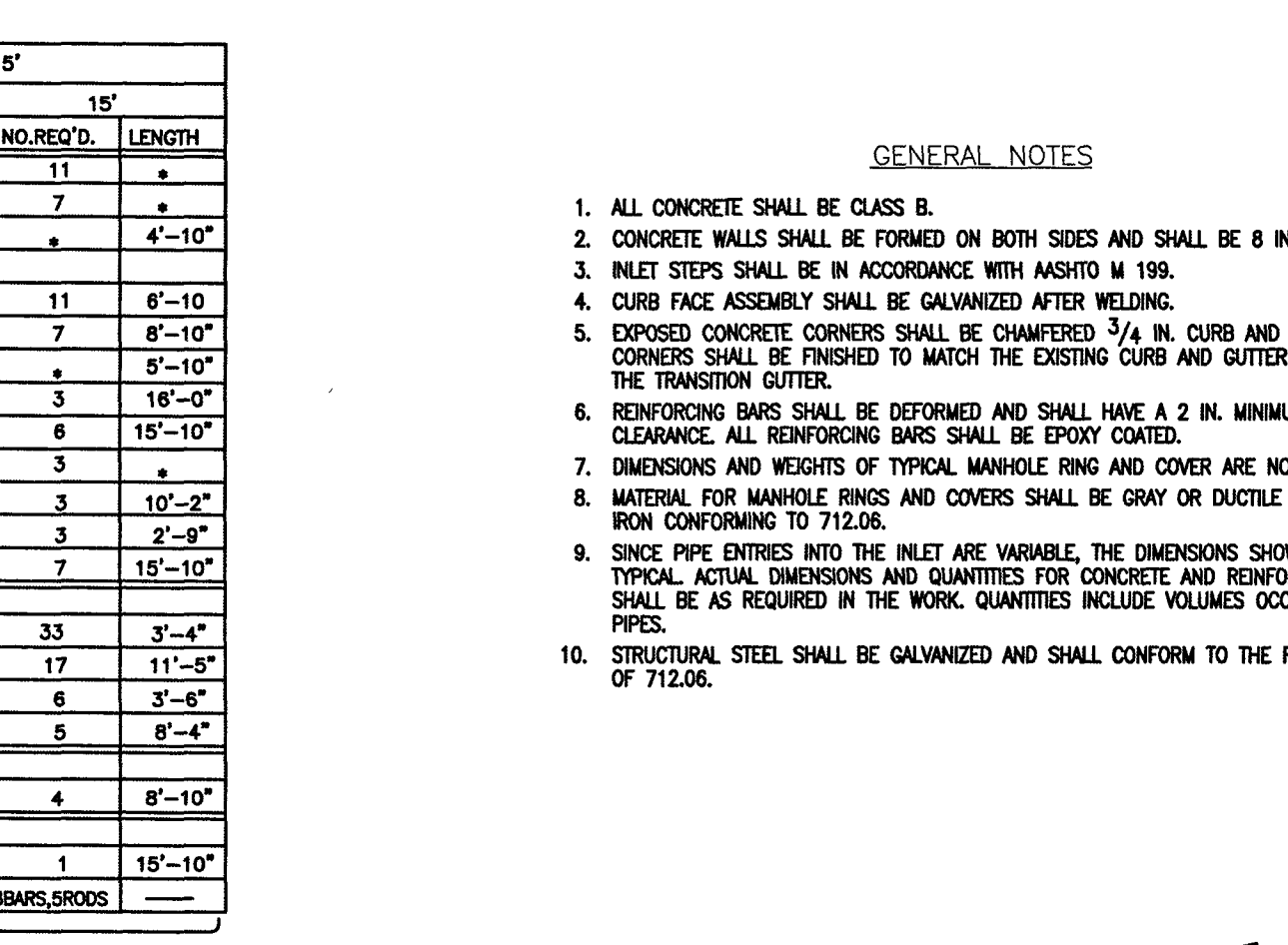
MARK	SIZE	TYPE	WT. #/FT.	FORMULAS
401	4	I	0.888	NO. REQ'D. LENGTH * 401 BAR LENGTH = 32'+2W+L.D.
402	4	II	0.888	NO. REQ'D. LENGTH * 402 BAR LENGTH = L.D. + 2W
501	5	I	1.043	NO. REQ'D. LENGTH * 501 BAR LENGTH = 24' + L.D. + 2W
502	5	II	1.043	NO. REQ'D. LENGTH * 502 BAR LENGTH = 3 * (24'+L.D.+2W+1)
503	5	III	1.043	NO. REQ'D. LENGTH * 503 BAR LENGTH = 4 * (24'+L.D.+2W+1)
504	5	IV	1.043	NO. REQ'D. LENGTH * 504 BAR LENGTH = 2 * (24'+L.D.+2W+1)
1101	11	I	5.313	NO. REQ'D. LENGTH * 1101 BAR LENGTH = 21' + L.D. + 2W
1102	11	II	5.313	NO. REQ'D. LENGTH * 1102 BAR LENGTH = 3 * (21'+L.D.+2W+1)
1103	11	III	5.313	NO. REQ'D. LENGTH * 1103 BAR LENGTH = 4 * (21'+L.D.+2W+1)
REINFORCING STEEL TOTAL = 985.8 (1,027.5 (1,122) (1,204) (1,282) (1,361))				
CONCRETE = CUBIC YARDS - TOTAL 8.0 8.8 7.3 8.0 8.5 11.1				



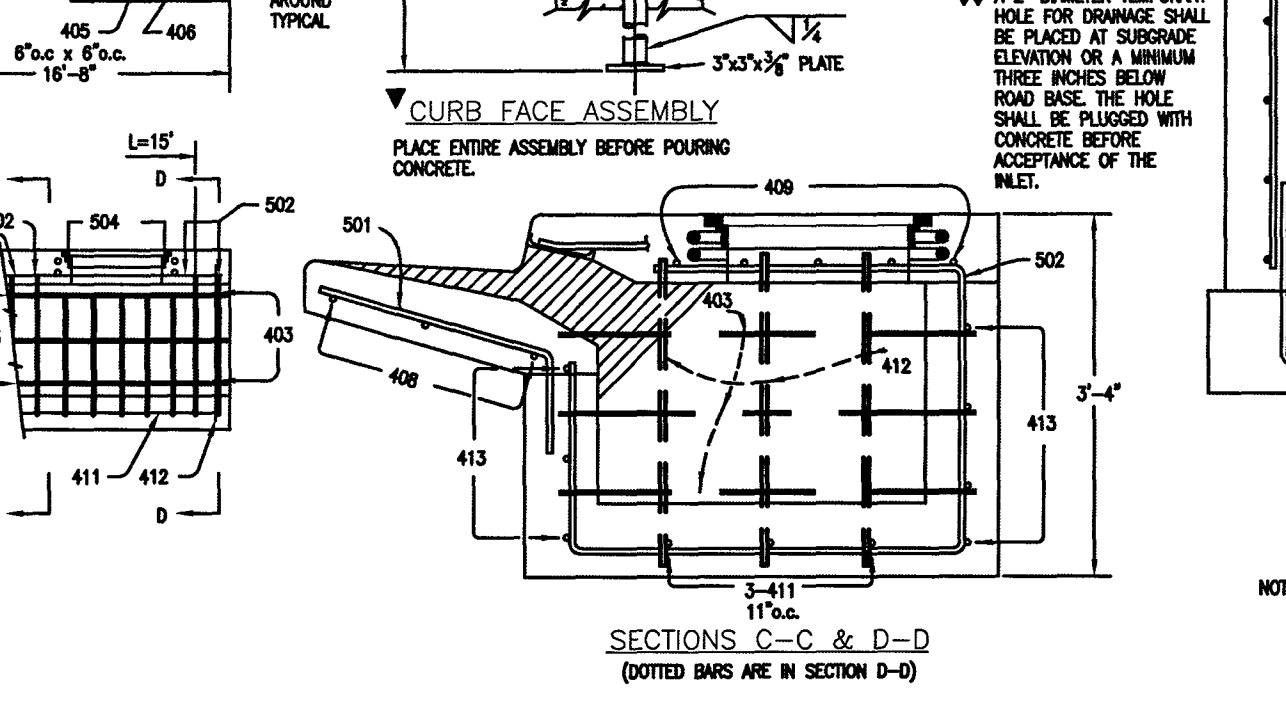
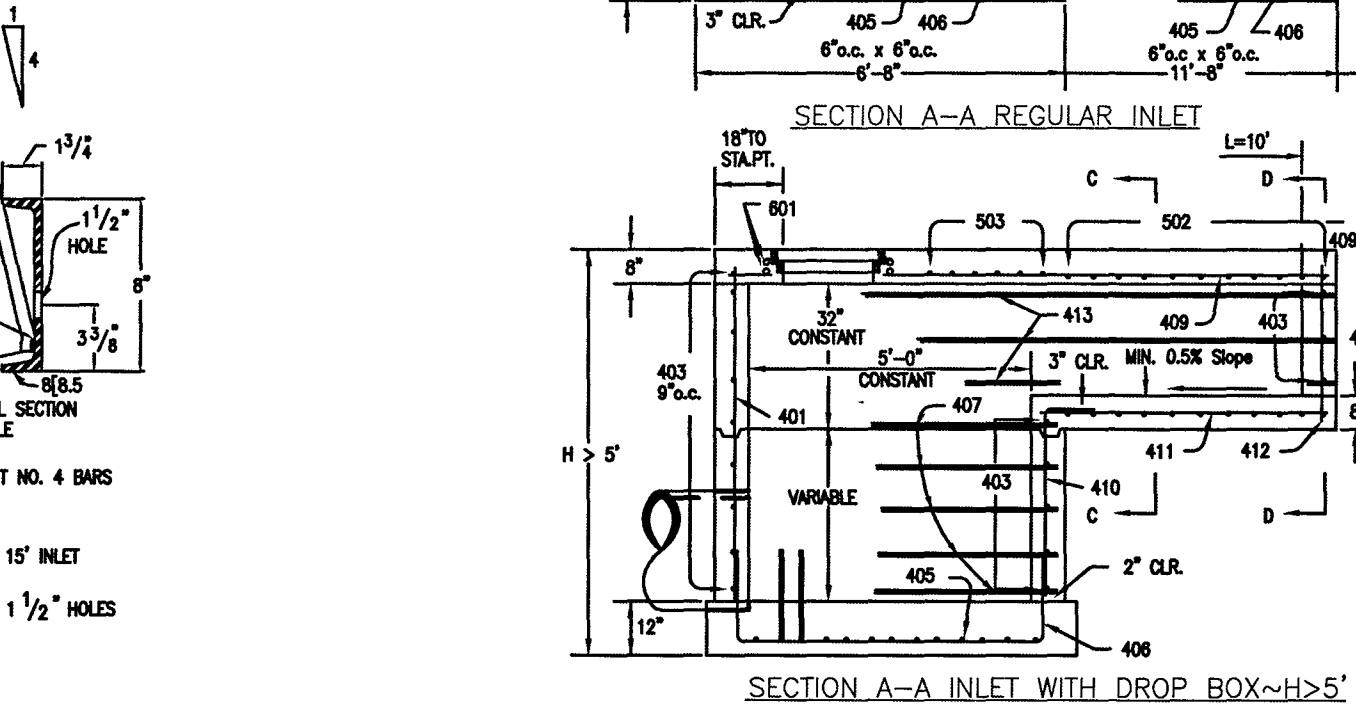
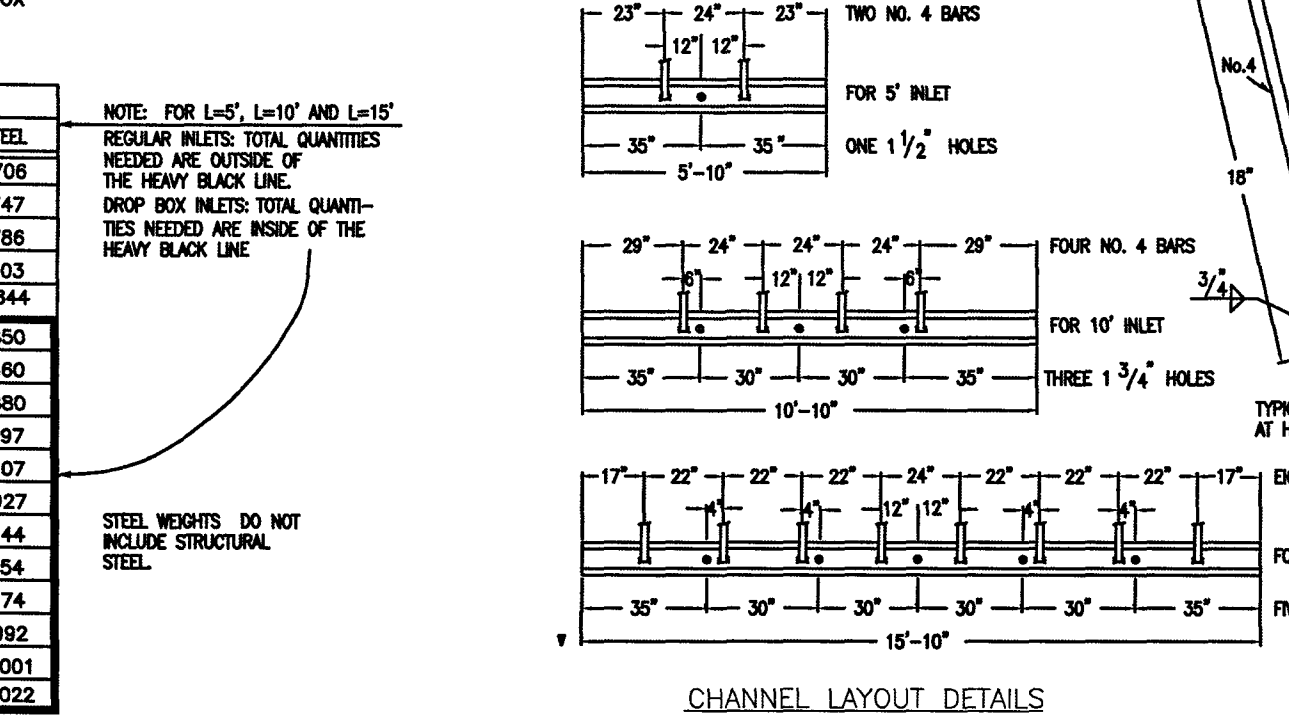
**CDOT MANHOLES
STD. PLAN NO: M-604-20**



MARK	DIA. IN.	O.C. SPACING	TYPE	ALL INLETS				INLETS, H ≤ 5'				INLETS, H > 5'			
				L=5'	L=10'	L=15'	L=20'	L=5'	L=10'	L=15'	L=20'	L=5'	L=10'	L=15'	L=20'
401	11"	II	15	3	21	3	21	3	21	3	21	3	21		
402	11"	II	7	3	21	3	21	3	21	3	21	3	21		
403	9"	II	3	3	21	3	21	3	21	3	21	3	21		
405	6"	VI	11	3	21	3	21	3	21	3	21	3	21		
406	6"	VIII	7	3	21	3	21	3	21	3	21	3	21		
407	9"	II	3	3	21	3	21	3	21	3	21	3	21		
408	12"	II	3	3	21	3	21	3	21	3	21	3	21		
409	6"	II	6	3	21	3	21	3	21	3	21	3	21		
410	11"	VII	3	3	21	3	21	3	21	3	21	3	21		
411	11"	II	3	3	21	3	21	3	21	3	21	3	21		
412	11"	II	3	3	21	3	21	3	21	3	21	3	21		
413	9"	II	3	3	21	3	21	3	21	3	21	3	21		
501	5 1/2"	IV	11	3	21	3	21	3	21	3	21	3	21		
502	5 1/2"	III	3	3	21	3	21	3	21	3	21	3	21		
503	5 1/2"	II	5	3	21	3	21	3	21	3	21	3	21		
504	5 1/2"	IX	3	3	21	3	21	3	21	3	21	3	21		
601	3 1/4"	V	2	3	21	3	21	3	21	3	21	3	21		
601	2 1/2"	V	2	3	21	3	21	3	21	3	21	3	21		



H'	LENGTH	REGULAR INLETS				DROPPED INLETS			
		L=5'	L=10'	L=15'	L=20'	L=5'	L=10'	L=15'	L=20'
3'-0"	2'-8"	10	7	4	3	2	1	1	
3'-6"	3'-2"	10	7	4	3	2	1	1	
4'-0"	3'-8"	12	9	5	3	2	1	1	
4'-6"	4'-2"	12	9	5	3	2	1	1	
5'-0"	4'-8"	14	11	6	4	3	2	1	
5'-6"	5'-2"	16	13	8	4.4	3.75	6.0	607	
6'-0"	5'-8"	18	15	10	4.8	3.82	6.2	618	
6'-6"	6'-2"	18	15	10	4.8	4.02	6.4	637	
7'-0"	6'-8"	20	17	12	5.0	4.23	6.6	654	
7'-6"	7'-2"	20	17	12	5.0	4.30	6.9	664	
8'-0"	7'-8"	22	19	14	5.5	4.51	7.1	684	
8'-6"	8'-2"	24	21	16	5.7	4.71	7.3	702	
9'-0"	8'-8"	24	21	16	6.0	4.79	7.6	711	
9'-6"	9'-2"	26	23	18	6.2	4.99	7.8	732	
10'-0"	9'-8"	28	25	20	6.4	5.20	8.0	749	
10'-6"	10'-2"	28	25	20	6.7	5.27	8.3	759	
11'-0"	10'-8"	30	27	22	6.9	5.47	8.5	779	



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

DATE APPROVED: 9/16/10	DESIGNED BY: André P. Brackin	PROJECT NO: SD_3-5	SCALE: NOT TO SCALE
Storm Sewer Manhole Details		Standard Drawing	
CDOT PROJECT NO: 17-20-027		SHEET NO: 30 OF 30	

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

NO. REVISION: _____ DATE: _____ REVIEW: _____

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

CLASSIC CONSULTING

FOREST LAKES FILING NO. 6 CONSTRUCTION DRAWINGS

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

DRAWN BY: MES SHEET: 30 OF 30

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

PCD FILE # SF-20-027