

FOREST LAKES FILING NO. 5

COUNTY OF EL PASO, STATE OF COLORADO

CONSTRUCTION DRAWINGS

JANUARY 2020

*As Built's
for El Paso County*

AGENCIES:

DEVELOPER: FOREST LAKES RESIDENTIAL DEVELOPMENT, LLC
6385 CORPORATE DRIVE, SUITE 200
COLORADO SPRINGS, CO 80919
MR. JIM BOULTON (719) 592-3259

CIVIL ENGINEER: CLASSIC CONSULTING ENGINEERS & SURVEYORS
619 N. CASCADE AVENUE, SUITE 200
COLORADO SPRINGS, CO 80903
MR. KYLE R. CAMPBELL, P.E. (719) 785-2800

COUNTY ENGINEERING: DEVELOPMENT SERVICES DEPARTMENT
2880 INTERNATIONAL CIRCLE
COLORADO SPRINGS, CO 80910
MR. GILBERT LAFORCE, (719) 520-7945

WATER & SANITATION DISTRICT: FOREST LAKES METROPOLITAN DISTRICT
2 N. CASCADE AVENUE, SUITE 1280
COLORADO SPRINGS, CO 80903
MS. ANN NICHOLS, (719) 633-9500

FIRE DISTRICT: TRI-LAKES MONUMENT FIRE PROTECTION DISTRICT
165 SECOND STREET
MONUMENT, COLORADO 80132
(719) 484-0911

GAS COMPANY: BLACK HILLS ENERGY
18865 BASE CAMP ROAD, A-7
MONUMENT, CO 80132
(888) 890-5554

ELECTRIC COMPANY: MOUNTAIN VIEW ELECTRIC
11140 E. WOODMEN ROAD
FALCON, COLORADO 80831
(719) 495-2283

TELEPHONE COMPANY: CENTURY LINK COMMUNICATIONS
(LOCATORS) (800)-922-1987
A.T.&T. (LOCATORS) (719) 635-3674

GENERAL CONSTRUCTION NOTES:

- THE LOCATION OF EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND MAY NOT INCLUDE ALL UTILITIES. THE EXCAVATION CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- BEFORE COMMENCING ANY EXCAVATION, CALL 1-800-922-1987 FOR EXISTING UTILITY LOCATIONS.
- THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR.
- ALL BACKFILL, SUB-BASE AND/OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED TO THE SOILS ENGINEER'S RECOMMENDATIONS, AND APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD).
- ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE INDICATED.
- THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS AS SOON AS POSSIBLE AND EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.
- ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES. REPAIR SHALL CONFORM TO THE EPC ECM APPENDIX K - 1.2C.
- ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION.
- BUILDING CONTRACTORS WILL BE RESPONSIBLE FOR CONSTRUCTING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
- ASPHALT THICKNESS AND BASE COURSE THICKNESS (COMPACTED) FOR ROADS SHALL BE PER DESIGN REPORT BY OWNER'S GEOTECHNICAL ENGINEER. OWNER'S GEOTECHNICAL ENGINEER TO BE ON SITE AT TIME OF ROAD CONSTRUCTION TO EVALUATE SOIL CONDITIONS AND DETERMINE IF ADDITIONAL MEASURES ARE NECESSARY TO ASSURE STABILITY OF THE NEW ROADS. PAVEMENT DESIGN SHALL BE APPROVED BY PLANNING AND COMMUNITY DEVELOPMENT PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL REVEGETATE ALL DISTURBED AREAS WITHIN 21 DAYS OF SUBSTANTIAL GRADING COMPLETION. EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED IN A FUNCTIONAL MANNER AT ALL TIMES. DEVELOPER IS RESPONSIBLE FOR MAINTAINING DISTURBED AREAS UNTIL REVEGETATION IS COMPLETE.
- TYPE M RIF-RAP WITH 4" OF TYPE II GRANULAR BEDDING AND MIRAFI 180N OR EQUAL MAY BE SUBSTITUTED WHERE TYPE L RIF-RAP WITH MIRAFI FW 700 OR EQUAL IS SPECIFIED.
- ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN COMPLIANCE WITH ANY AND ALL APPLICABLE EL PASO COUNTY STANDARDS.

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS:

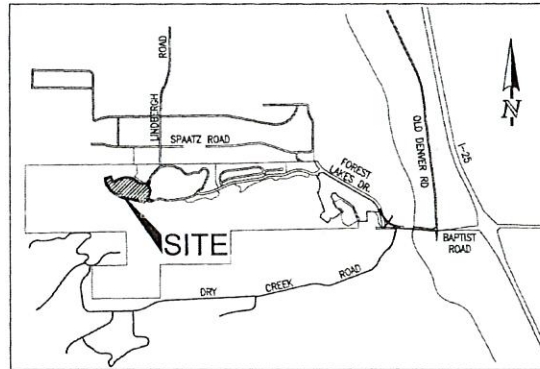
- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION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

SIGNING AND STRIPING NOTES:

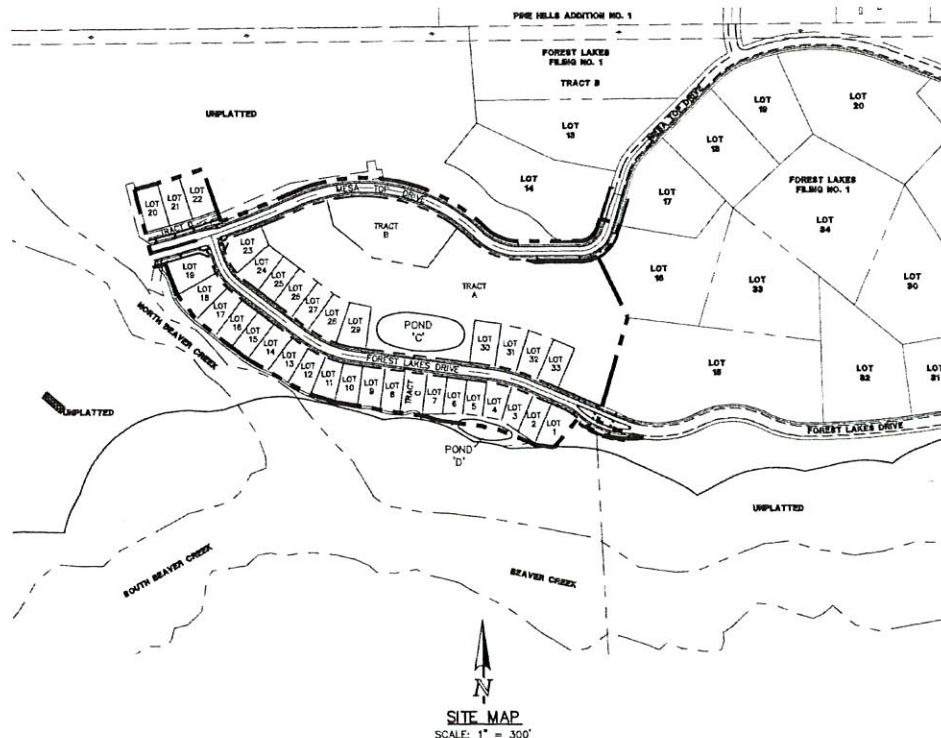
- ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
- ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
- ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
- STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
- ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
- ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS."
- ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
- ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD 5-614-B REGARDING USE OF THE P2 TUBULAR STEEL POST SUBBASE DESIGN.
- ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
- ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD 5-627-1. 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 5-627-1.
- ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT 5-627-1.
- THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-8819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
- THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

BENCHMARKS:

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



VICINITY MAP
N.T.S.



SITE MAP
SCALE: 1" = 300'

SHEET INDEX

SHEET 1 OF 32	TITLE SHEET
SHEET 2 OF 32	GRADING AND EROSION CONTROL PLAN
SHEET 3 OF 32	GRADING AND EROSION CONTROL PLAN
SHEET 4 OF 32	GRADING AND EROSION CONTROL PLAN
SHEET 5 OF 32	GRADING AND EROSION CONTROL PLAN DETAIL SHEET
SHEET 6 OF 32	GRADING AND EROSION CONTROL PLAN DETAIL SHEET
SHEET 7 OF 32	KEY MAP WITH TYPICAL STREET SECTIONS
SHEET 8 OF 32	STREET IMPROVEMENT PLAN (MESA TOP DRIVE STA: 14+00-15+50)
SHEET 9 OF 32	STREET IMPROVEMENT PLAN (MESA TOP DRIVE STA: 15+50-END) & MESA TOP SIGNAGE & STRIPING
SHEET 10 OF 32	STREET IMPROVEMENT PLAN (FOREST LAKES DRIVE STA: 14+00-7+00)
SHEET 11 OF 32	STREET IMPROVEMENT PLAN (FOREST LAKES DRIVE STA: 7+00-END)
SHEET 12 OF 32	STORM SEWER PLAN & PROFILE (MAIN A, MAIN B, & MAIN C)
SHEET 13 OF 32	STORM SEWER PLAN & PROFILE (MAIN D, MAIN E, MAIN G, & MAIN H)
SHEET 14 OF 32	STORM SEWER PLAN & PROFILE (MAIN F STA: 14+00-10+50)
SHEET 15 OF 32	STORM SEWER PLAN & PROFILE (MAIN F STA: 10+50-END & MAIN J)
SHEET 16 OF 32	STORM SEWER PLAN & PROFILE (MAIN K)
SHEET 17 OF 32	STORM SEWER PLAN & PROFILE (MAIN L & MAIN M)
SHEET 18 OF 32	STORM SEWER PLAN & PROFILE (MAIN P & MAIN N)
SHEET 19 OF 32	PRIVATE POND 'C'
SHEET 20 OF 32	PRIVATE POND 'D'
SHEET 21 OF 32	FOREBAY STRUCTURES 'A' & 'F' (POND C)
SHEET 22 OF 32	MAIN 'J' IMPACT STRUCTURE W/ REINFORCING (POND C)
SHEET 23 OF 32	MAIN 'K' IMPACT STRUCTURE W/ REINFORCING (BYPASS)
SHEET 24 OF 32	POND OUTLET BOX & PROFILE (POND C)
SHEET 25 OF 32	POND OUTLET BOX AND MICROPOOL STRUCTURE (POND C)
SHEET 26 OF 32	OUTLET BOX DETAILS (POND C)
SHEET 27 OF 32	OUTLET BOX DETAILS (POND C)
SHEET 28 OF 32	POND SPILLWAY DETAILS (POND C)
SHEET 29 OF 32	POND OUTLET BOX & PROFILE (POND D)
SHEET 30 OF 32	DETAIL SHEET
SHEET 31 OF 32	DETAIL SHEET
SHEET 32 OF 32	DETAIL SHEET

APPROVALS:

DESIGN ENGINEER'S STATEMENT:

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

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

OWNER/DEVELOPER'S STATEMENT:

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

JIM BOULTON
DATE: 3-17-20

EL PASO COUNTY:

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

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

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

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

Approved
By: Elizabeth Nijkamp

Date: 06/09/2020

El Paso County Planning & Community Development

PCD FILE # SF1915

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
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.			

CLASSIC CONSULTING

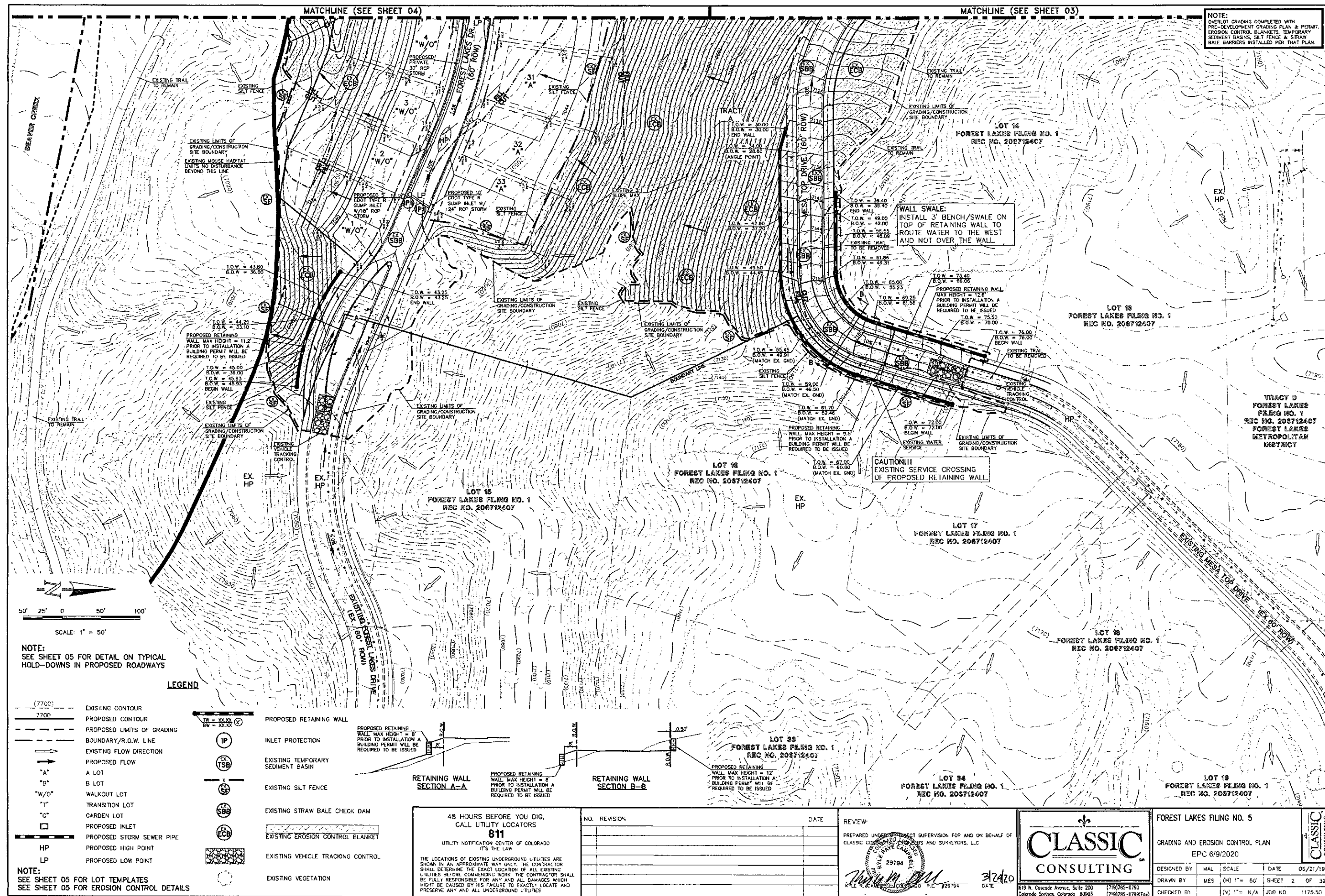
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CHECKED BY: (V) 1" = N/A

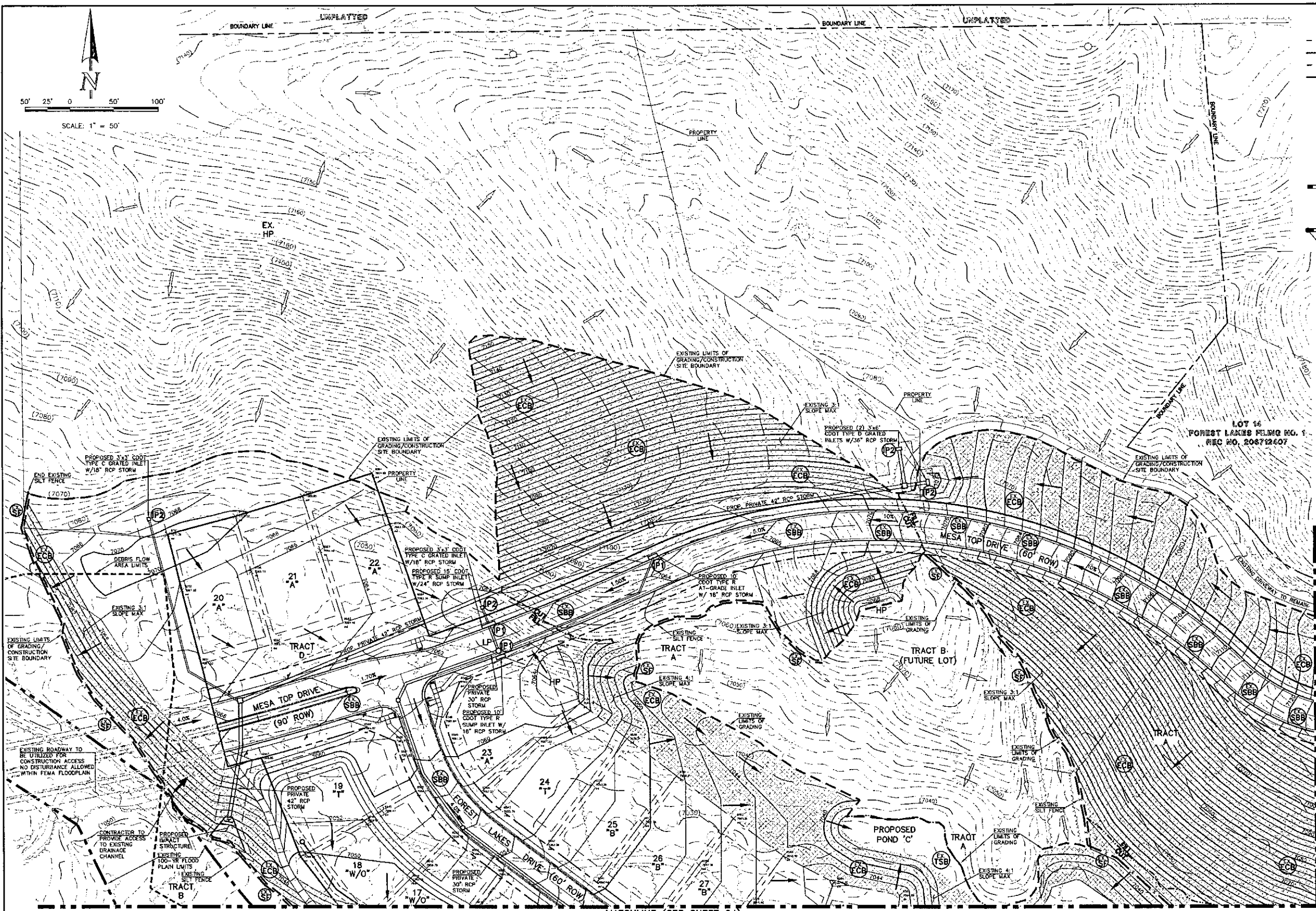
SCALE: (H) 1" = VARIES
(V) 1" = N/A

DATE: 3/21/20

SHEET 1 OF 32

JOB NO. 1175.50





LEGEND

- (7700) EXISTING CONTOUR
- 7700 PROPOSED CONTOUR
- PROPOSED LIMITS OF GRADING
- 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
- HP PROPOSED HIGH POINT
- LP PROPOSED LOW POINT
- PROPOSED RETAINING WALL
- IP INLET PROTECTION
- TSB EXISTING TEMPORARY SEDIMENT BASIN
- SF EXISTING SILT FENCE
- SBB EXISTING STRAW BALE CHECK DAM
- ECB EXISTING EROSION CONTROL BLANKET
- EXISTING VEHICLE TRACKING CONTROL
- EXISTING VEGETATION

NOTE:
SEE SHEET 05 FOR LOT TEMPLATES
SEE SHEET 05 FOR
EROSION CONTROL DETAILS

MATCHLINE (SEE SHEET 02)

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

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MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND
PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE

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

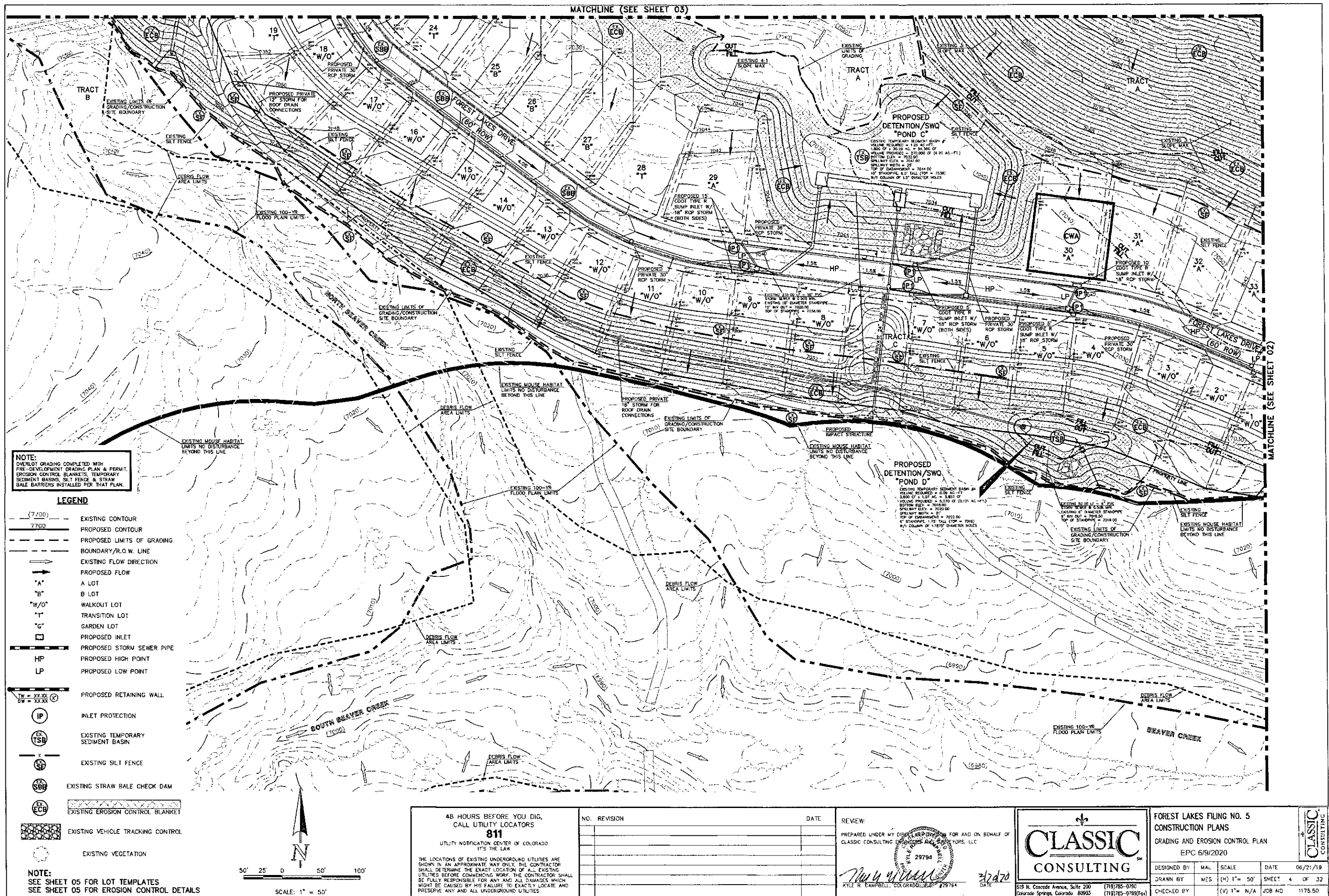
Kyle R. Campbell
KYLE R. CAMPBELL, COLORADO LICENSE #29794

CLASSIC CONSULTING

619 N. Cascade Avenue, Suite 200 (719) 765-0790
Colorado Springs, Colorado 80903 (719) 765-0799 (Fax)

FOREST LAKES FILING NO. 5 CONSTRUCTION PLANS GRADING AND EROSION CONTROL PLAN EPC 6/9/2020			
DESIGNED BY	MAIL	SCALE	DATE 06/21/19
DRAWN BY	MES	(H) 1" = 50'	SHEET 3 OF 32
CHECKED BY	(V) 1" = N/A	JOB NO.	1175-50

CLASSIC CONSULTING



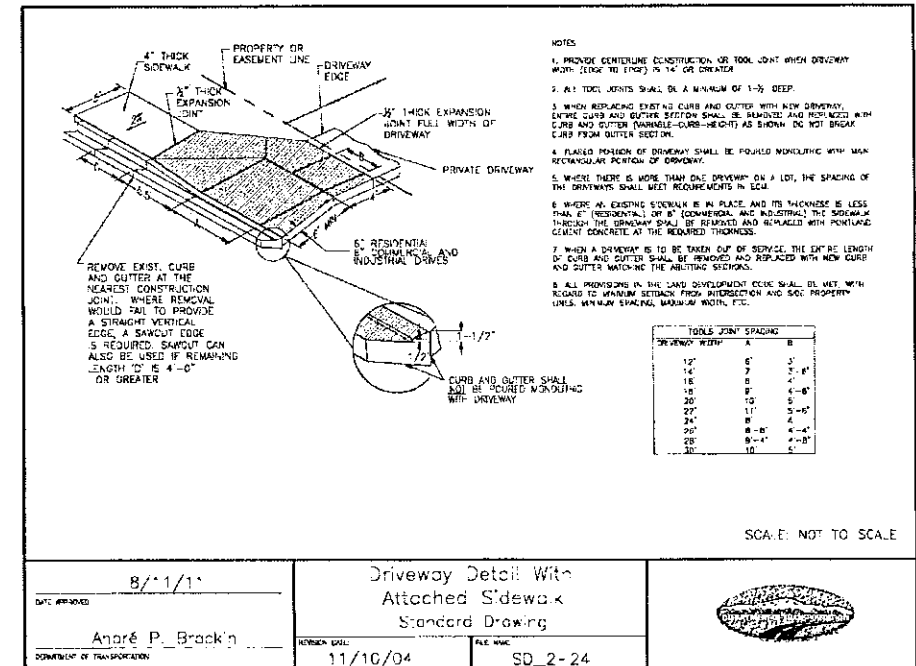
EL PASO COUNTY GRADING AND EROSION CONTROL NOTES:

1. 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.
2. 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.
3. 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.
4. ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A 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.
5. 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.
6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL 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.
7. 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.
8. 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.
9. 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 ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
10. 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.
11. 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).
12. 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.
13. 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.
14. 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.
15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
16. 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.
17. 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.
18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
19. 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.
20. 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.
21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
22. 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 ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
24. 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 ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (E.G., NPDES, FLOODPLAIN, ADA, 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.
25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
26. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
27. 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.
28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. AND SHALL BE CONSIDERED A PART OF THESE PLANS.
29. 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

Table B-6. Native Seed Mix for Rain Gardens²

Common Name	Scientific Name	Variety	PLS ² lbs per Acre	Ounces per Acre
Sand bluestem	Andropogon holii	Garden	5.5	
Sileneo grama	Houdeluna curtipendula	Rutte	3	
Prairie sandreed	Calamovilfa longifolia	Gosben	3	
Indian ricegrass	Oryzopsis hymenoides	Taluma	5	
Switchgrass	Panicum virgatum	Blackwell	4	
Western wheatgrass	Pascopyrum amthun	Arko	5	
Little bluestem	Schizachyrium scoparium	Patera	3	
Alkali sacaton	Sporobolus airoides		3	
Sand dropseed	Sporobolus eripandrus		3	
Pasture sage	Artemisia tridentata			2
Blue aster	Aster laevis			4
Blanket flower	Gaillardia aristata			8
Prairie coneflower	Rudbeckia hirta			4
Purple prairieflower	Dracopis (Petalostemum) purpurea			4
Sub-Total:			27.5	22
Total lbs per acre:				28.9

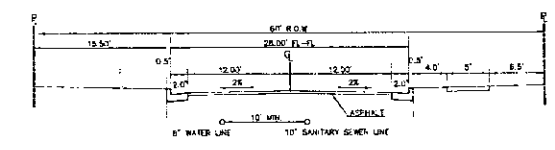
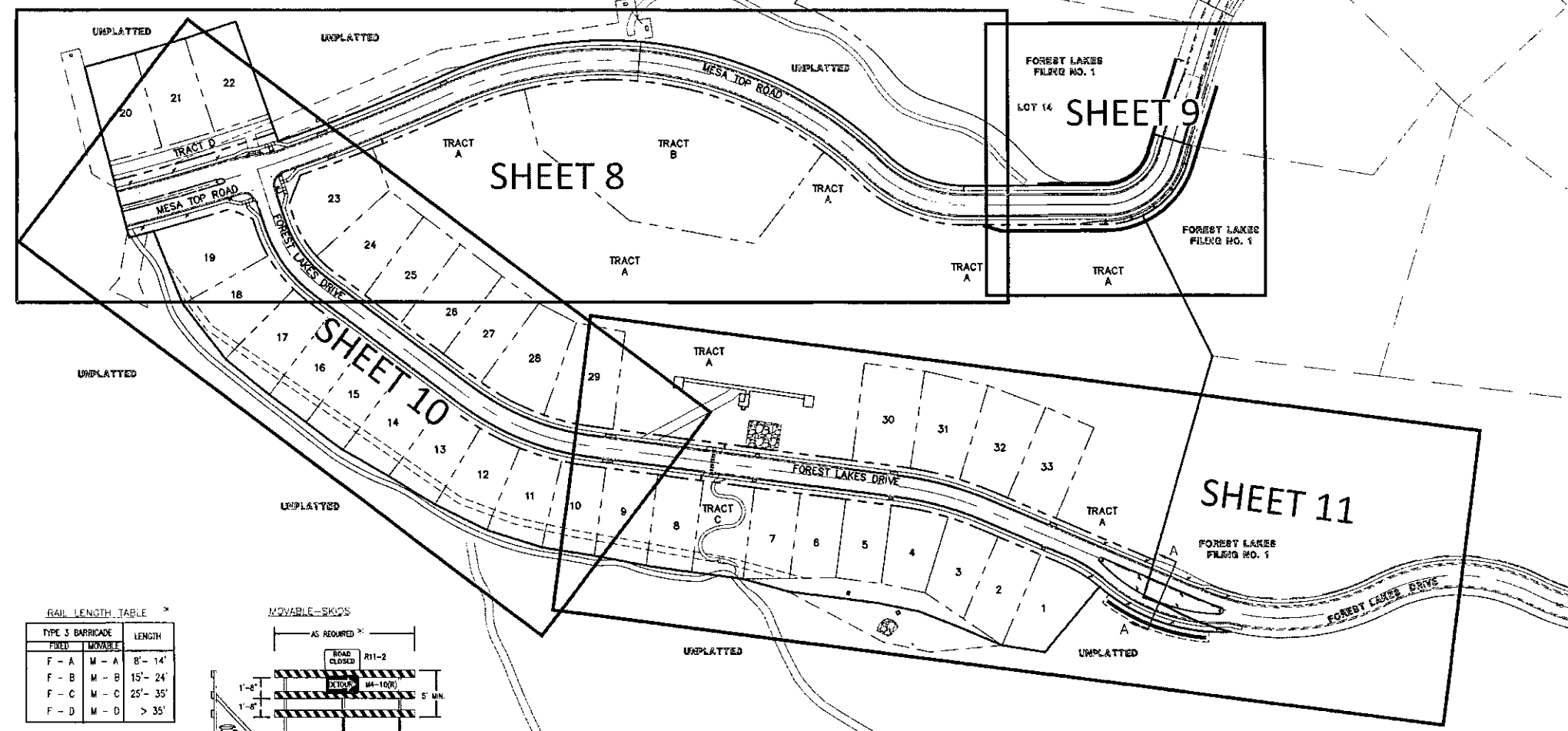
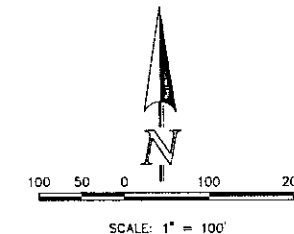
¹ Wildflower seed (optional) for a more diverse and natural look.
² PLS = Pure Live Seed



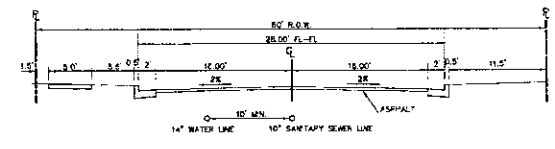
CONSTRUCTION CONTROL MEASURES NOTES:

1. 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.
2. 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.
3. THE PROPOSED GRADING/EROSION CONTROL PLAN (SHEETS 2-4) SHOW AND CALL-OUT THE "INTERIM" STAGE OF CONSTRUCTION CONTROL MEASURES.
4. "FINAL" CONSTRUCTION CONTROL MEASURES ARE STABILIZED/DEVELOPED LOTS, CONSTRUCTED ROADS, RE-SEEDED OPEN SPACE, AND CONSTRUCTED DETENTION PONDS. A PLAN IS NOT NEEDED FOR THE FINAL STAGE.

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW 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 <table border="1"><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>											DATE <table border="1"><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table>											REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC KYLE R. CAMPBELL, COLORADO P.E. #29794 DATE 3/20/20	 CLASSIC CONSULTING 619 N. Cascade Avenue, Suite 200 (719) 785-0790 Colorado Springs, Colorado 80903 (719) 785-0799(fax)	FOREST LAKES FILING NO. 5 CONSTRUCTION PLANS GRADING AND EROSION CONTROL PLAN DETAIL SHEET EPC 6/9/2020 DESIGNED BY MAL SCALE DATE 06/21/19 DRAWN BY MES (H) 1"= N/A SHEET 6 OF 32 CHECKED BY (V) 1"= N/A JOB NO. 1175.50



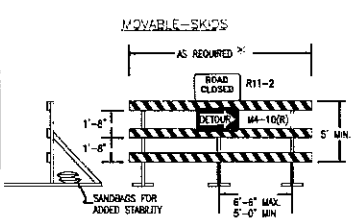
MESA TOP DRIVE
EXISTING STREET SECTION
SCALE 1" = 10'



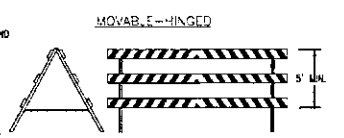
FOREST LAKES DRIVE
EXISTING STREET SECTION
SCALE 1" = 10'

RAIL LENGTH TABLE *

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



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



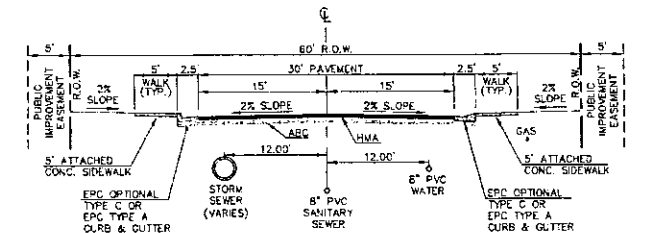
TYPICAL TYPE 3 BARRICADES



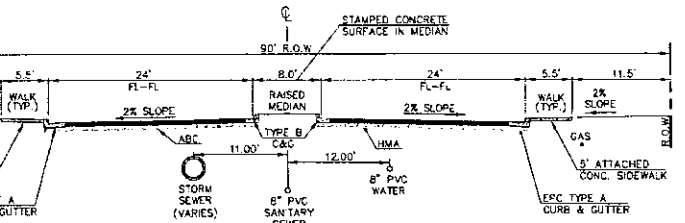
PROPOSED "NO PARKING" SIGN

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	FLOORLINE
TYP.	TYPICAL
I.F.O.B.	INSIDE FACE OF BOX



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



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

STOP (R1-1) 30"x30"

STREET NAME (D-3) 24"x30"

SPEED LIMIT 25 (R2-1) 24"x30"

KEEP RIGHT (R4-7) 24"x30"

PEDESTRIAN CROSSING (W11-2) 36"x36"

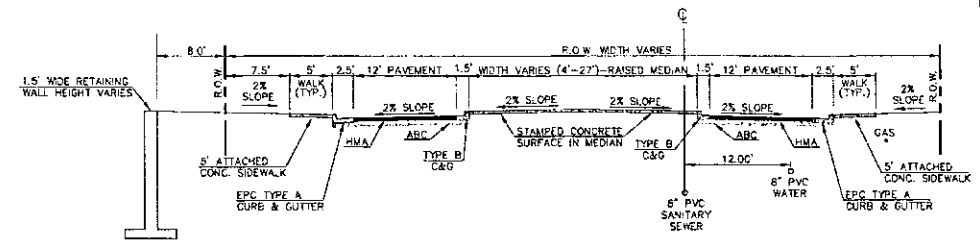
TURN/ADVISORY SIGN - RIGHT (W1-1aR) 30"x30"

TURN/ADVISORY SIGN - LEFT (W1-1aL) 30"x30"

CHEVRON ALIGNMENT - RIGHT (W1-8R) 12"x18"

CHEVRON ALIGNMENT - LEFT (W1-8L) 12"x18"

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

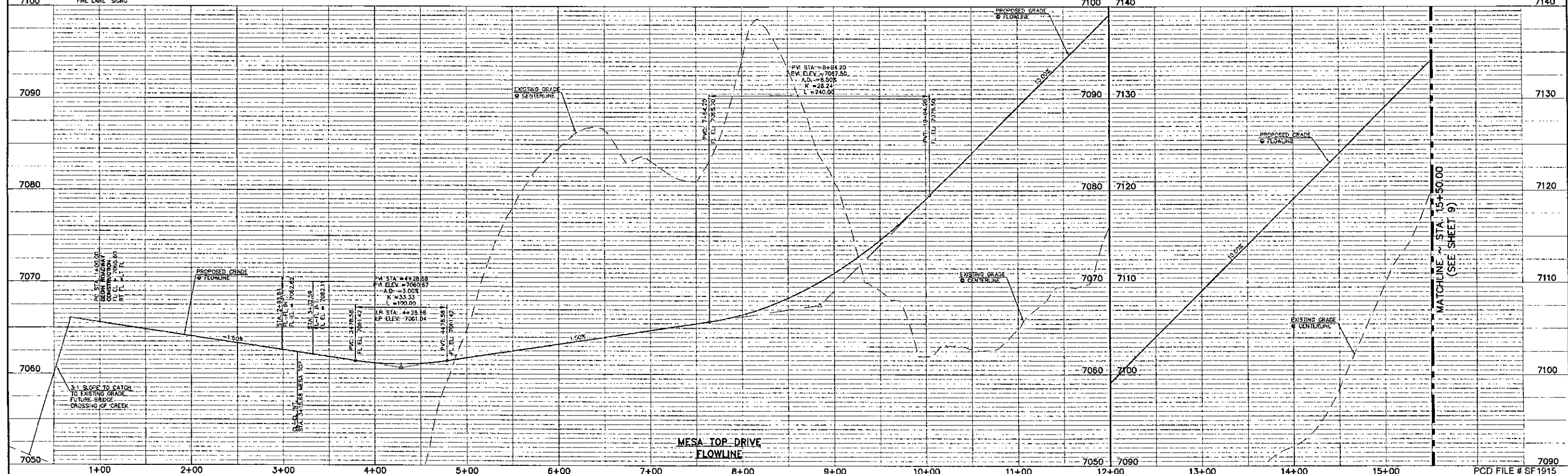
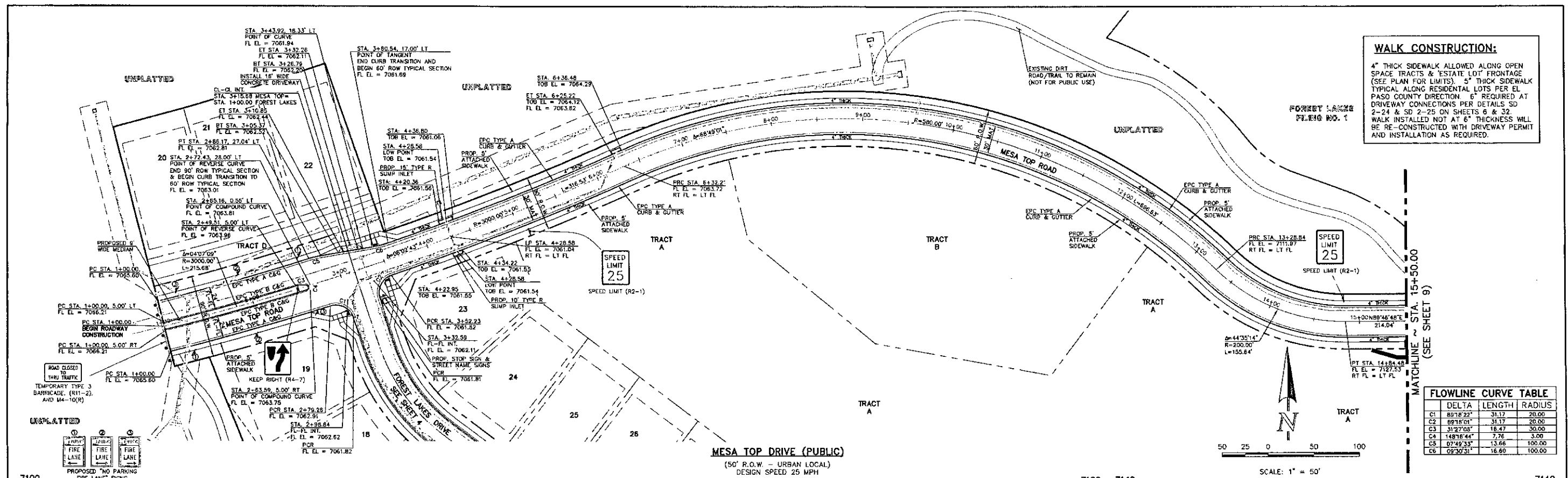


CROSS SECTION 'A-A'
FOREST LAKES DRIVE
SCALE 1" = 10'

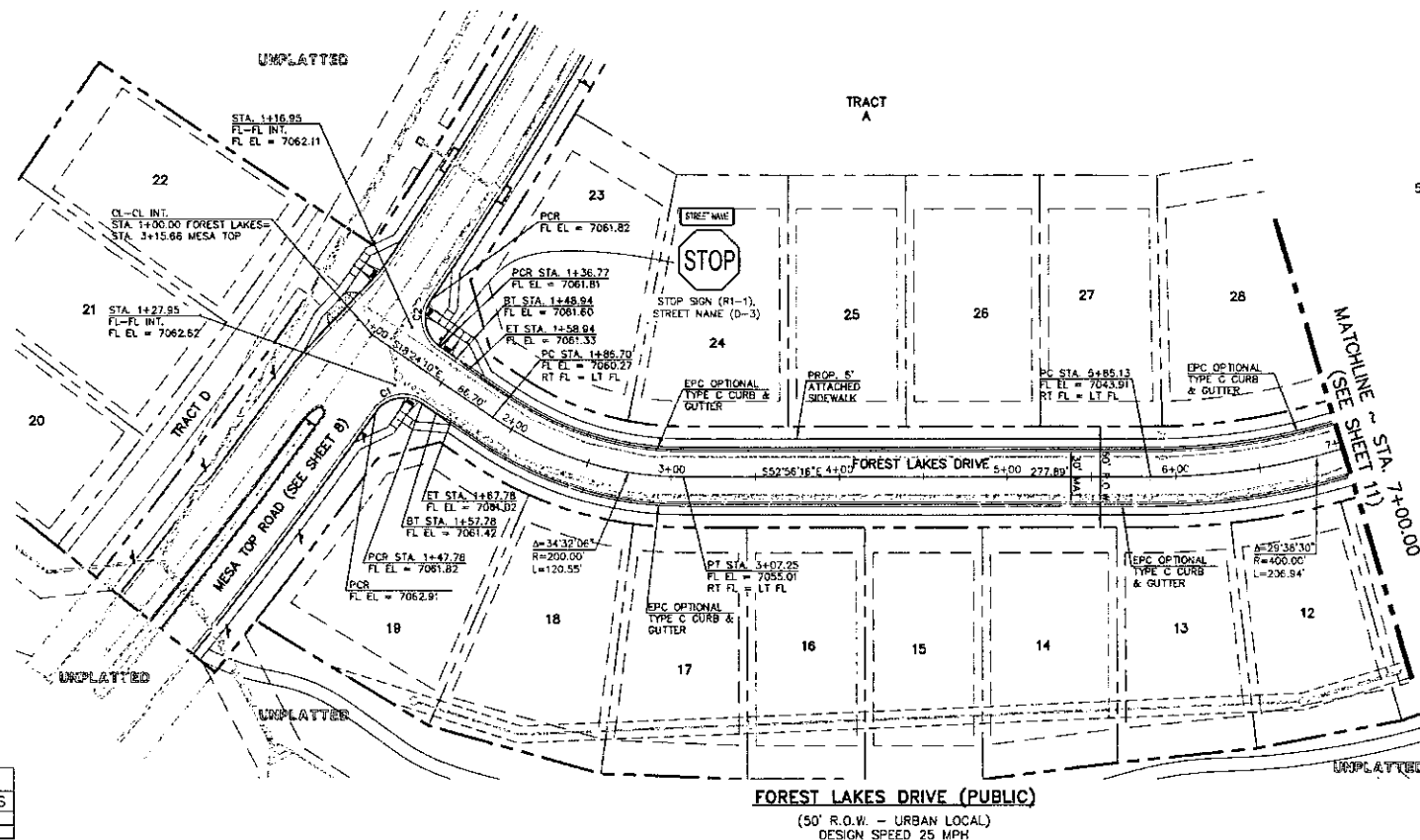
48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW	NO. REVISION	DATE	REVIEW: PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC KYLE R. CAMPBELL, COLORADO 29794 DATE 7/24/20	FOREST LAKES FILING NO. 5 PUBLIC STREET IMPROVEMENT PLAN KEY MAP W/TYPICAL STREET SECTIONS EPC 6/9/2020	DESIGNED BY: MAL DRAWN BY: PRA CHECKED BY: (V) 1" = 5'	SCALE: (H) 1" = 50' (V) 1" = 5'	DATE: 06-17-19 SHEET: 7 OF 32 JOB NO.: 1175.50
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PCD FILE # SF1915

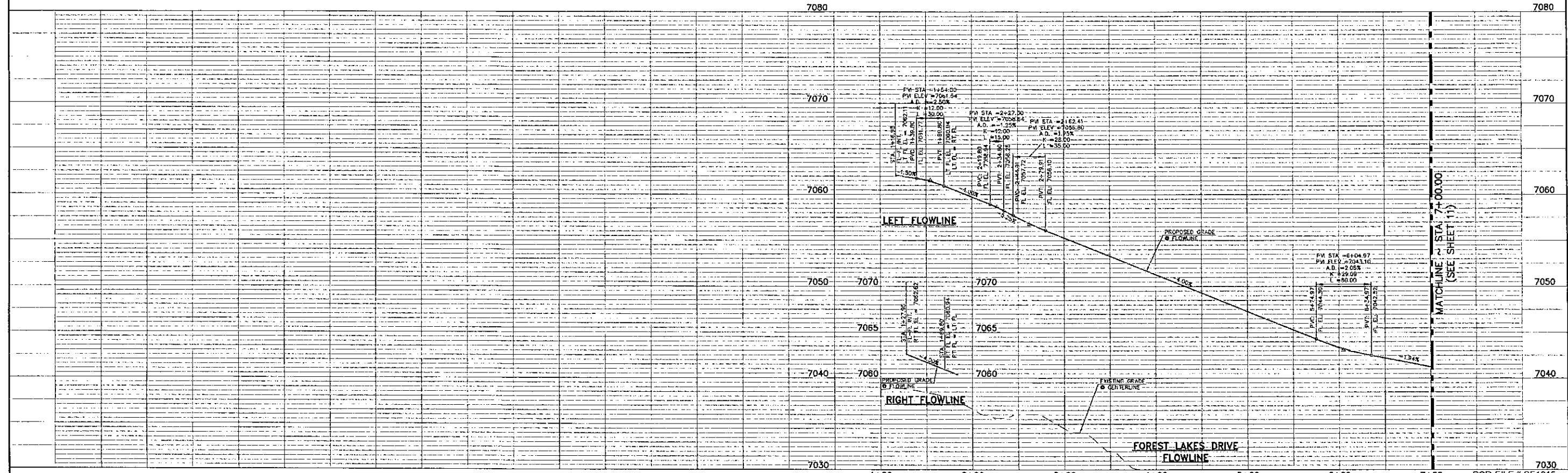
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<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS</p> <p>811</p> <p>UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</p> <p>THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE 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>5</p>	<p>REVIEW:</p> <p>PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND ARCHITECTS, LLC</p> <p><i>Kyle R. Campbell</i></p> <p>KYLE R. CAMPBELL, COLORADO LICENSE #29794</p>	<p>DESIGNED BY: M.A.</p> <p>DRAWN BY: FKA</p> <p>CHECKED BY: (V)</p> <p>SCALE: (H) 1" = 50'</p> <p>DATE: 06-17-19</p> <p>SHEET: 8 OF 32</p> <p>JOB NO.: 1175.50</p>	<p>FOREST LAKES FILING NO. 5</p> <p>PUBLIC STREET IMPROVEMENT PLAN</p> <p>MESA TOP DRIVE - STA. 1+00.00 TO 15+50.00</p> <p>PCD FILE # SF1915</p> <p>CLASSIC CONSULTING</p>
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FLOWLINE CURVE TABLE			
	DELTA	LENGTH	RADIUS
C1	89°18'22"	31.17	20.00
C2	89°18'01"	31.17	20.00



48 HOURS BEFORE YOU DIG,
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NO. REVISION

DATE

REVIEW:

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

Thuy W. [Signature]
Thuy W. Campbell, Colorado State License 29794

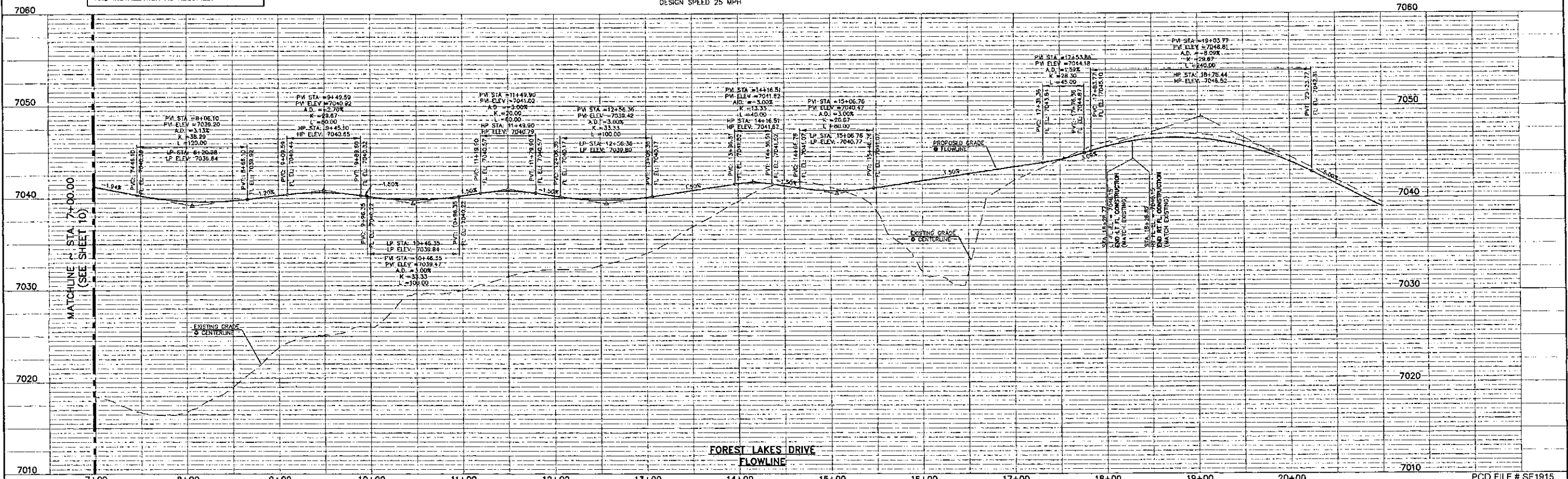
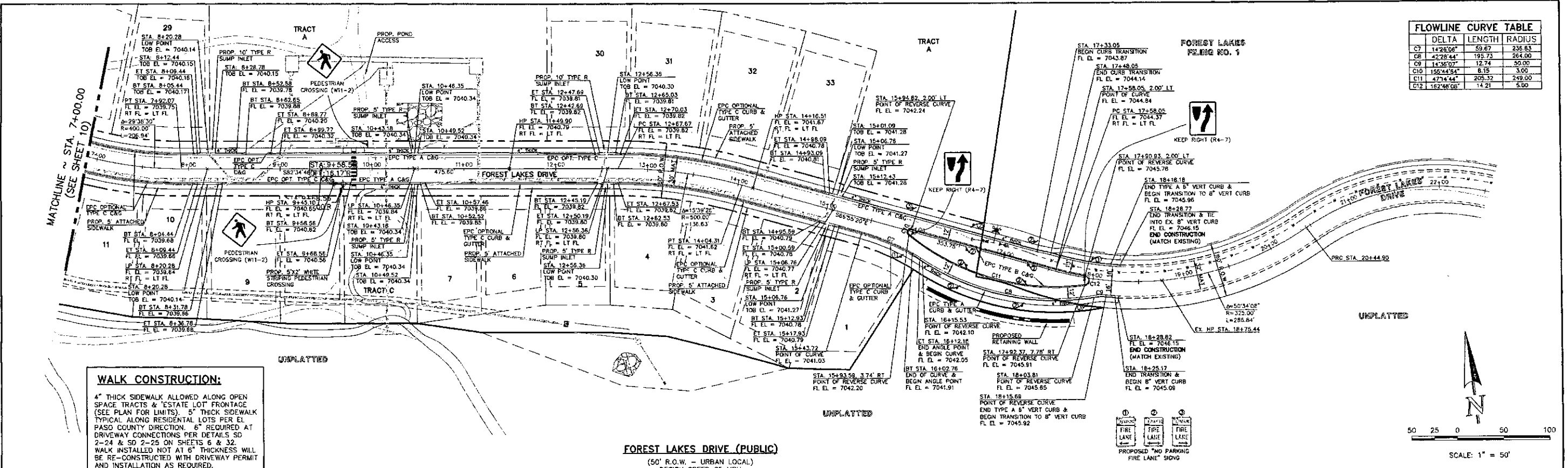
DATE: 3/20/20

FOREST LAKES FILING NO. 5
PUBLIC STREET IMPROVEMENT PLAN
FOREST LAKES DRIVE-STA. 1+00.00 TO 7+00.00
EPC 6/9/2020

DESIGNED BY: MAL SCALE: DATE: 06-17-19
DRAWN BY: FRA (H) 1" = 50' SHEET 10 OF 32
CHECKED BY: (V) 1" = 5' JOB NO. 1175.50

CLASSIC CONSULTING
619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719) 785-0796
(719) 785-0799 (Fax)

FLOWLINE CURVE TABLE			
DELTA	LENGTH	RADIUS	
C7 14°28'06"	59.67	236.63	
C8 42°28'44"	192.73	264.00	
C9 14°38'07"	12.74	55.00	
C10 155°44'54"	8.15	3.00	
C11 47°14'44"	205.32	249.00	
C12 162°48'08"	14.21	5.00	



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NO.	REVISION	DATE

REVIEW:

PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF
CLASSIC CONSULTING ENGINEERS, INC.

Kyle R. Campbell
KYLE R. CAMPBELL, COLORADO
Professional Engineer
No. 29794
DATE 3/24/20

FOREST LAKES FILING NO. 5
PUBLIC STREET IMPROVEMENT PLAN
EPC 6/9/2020
FOREST LAKES DRIVE - STA. 7+00.00 TO 18+28.82

DESIGNED BY: MAL
DRAWN BY: PRA
CHECKED BY: (V) 1" = 5'

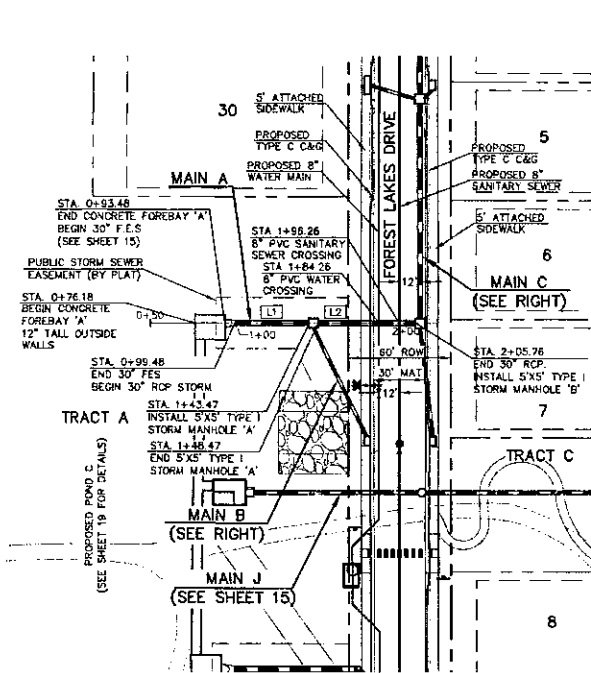
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(V) 1" = 5'

DATE: 06-17-19
SHEET: 11 OF 32
JOB NO.: 1175.50

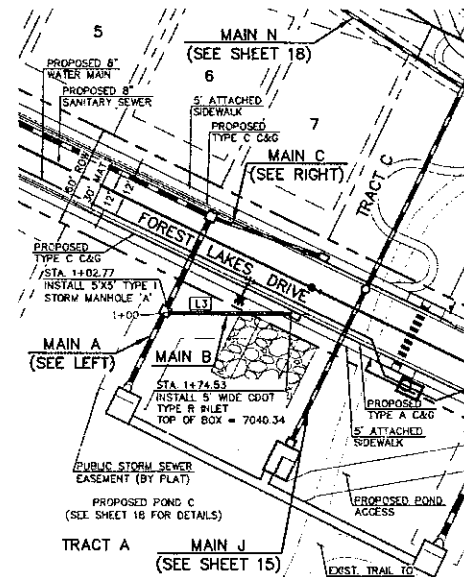
CLASSIC CONSULTING

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

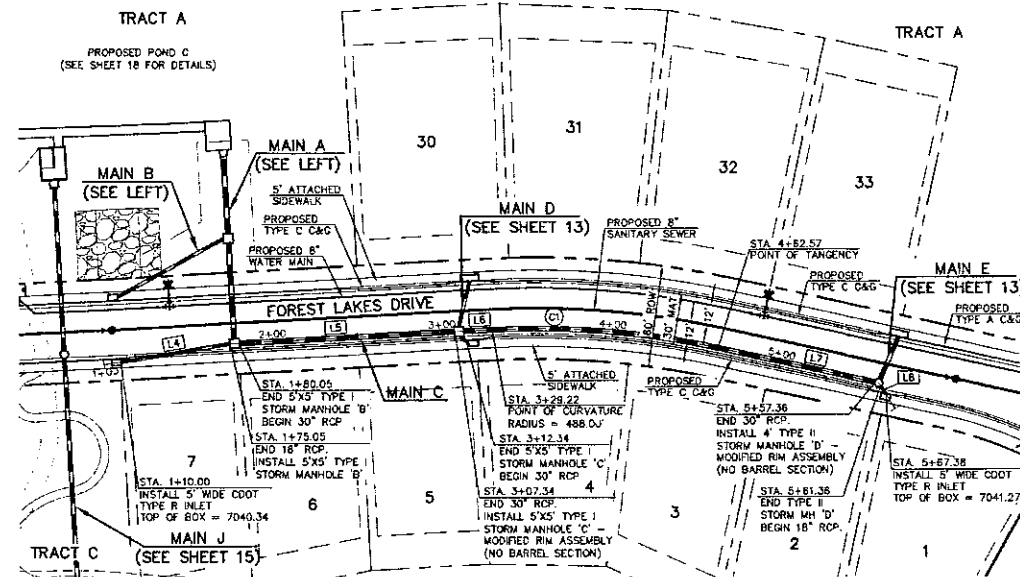
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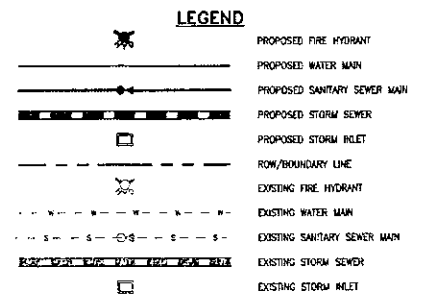
PROPOSED PUBLIC 30" RCP - STORM MAIN A



PROPOSED PUBLIC 18" RCP - STORM MAIN B



PROPOSED PUBLIC 18" / 30" RCP - STORM MAIN C



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

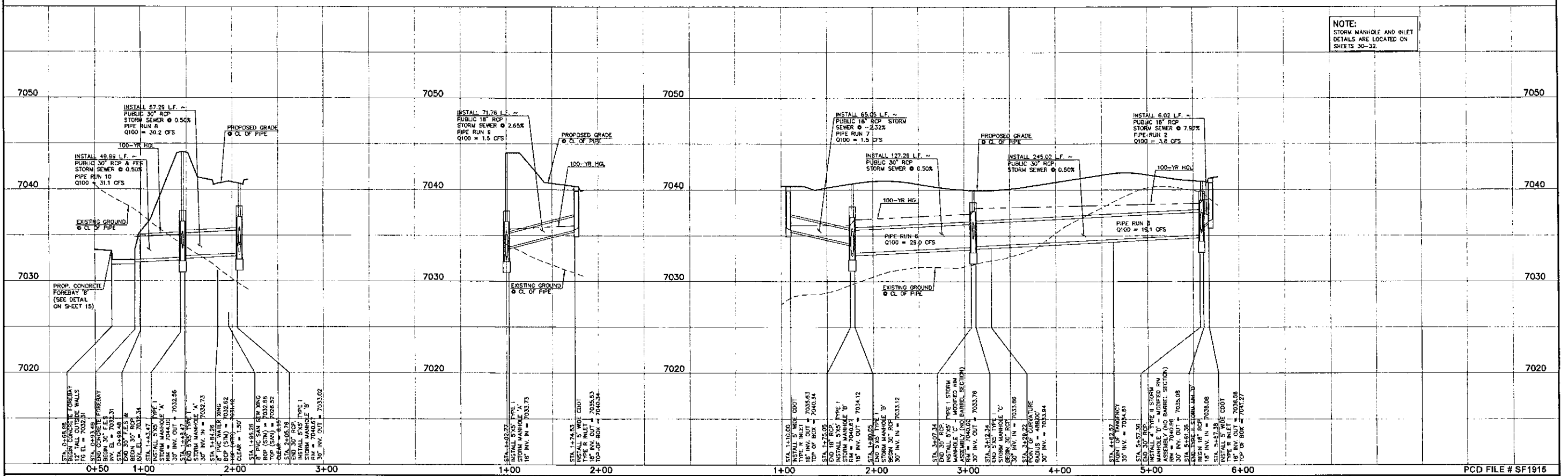
NOTE:
ALL STORM FACILITIES WITHIN R.O.W.
ARE PUBLIC, UNLESS OTHERWISE
NOTED.

STORM LINE TABLE	
LENGTH	BEARING
L1 43.99'	S07°25'14"W
L2 57.28'	S07°25'14"W
L3 71.75'	S71°43'24"W
L4 65.05'	S88°54'26"E
L5 127.28'	S82°34'46"E
L6 16.88'	S82°34'46"E
L7 94.78'	S66°55'20"E
L8 6.02'	S21°55'20"E

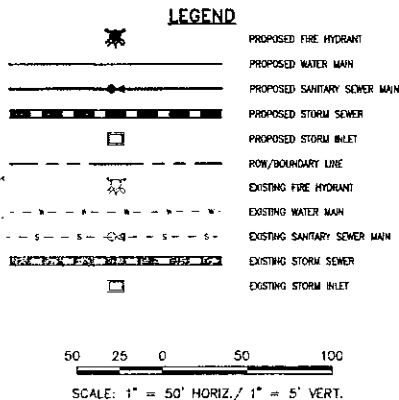
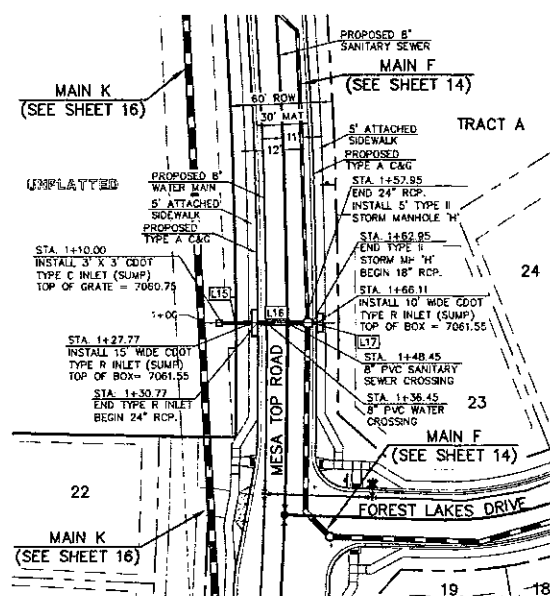
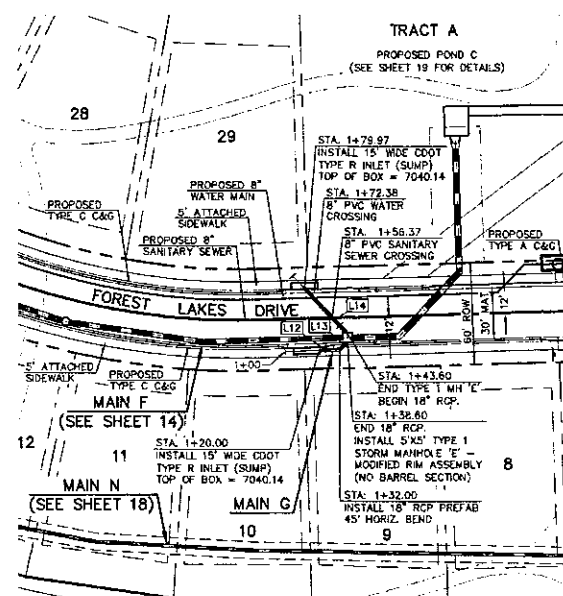
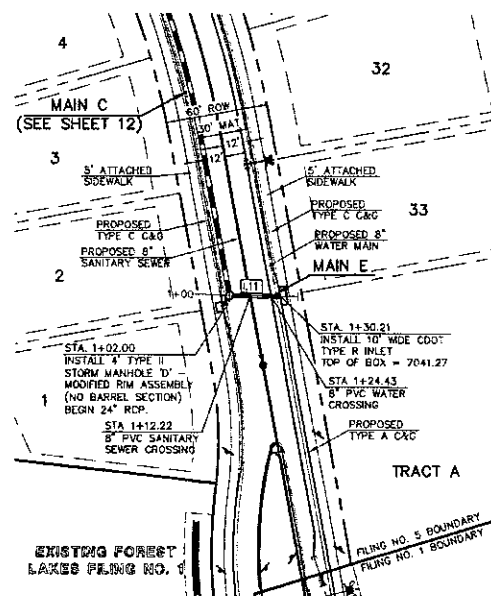
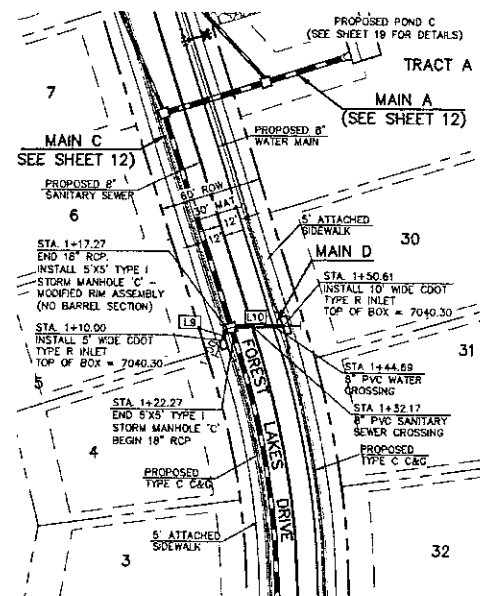
STORM CURVE TABLE		
LENGTH	RADIUS	DELTA
C1 133.36'	488.00'	15°39'26"

NOTE:
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.

NOTE:
STORM MANHOLE AND INLET
DETAILS ARE LOCATED ON
SHEETS 30-32.



REVIEW: STREET DESIGN FOR CITY ENGINEERING: UTILITY GRADE REVIEW _____ DATE _____ TRAFFIC SIGNAGE & STRIPING _____ DATE _____ CURB & GUTTER REVIEW _____ DATE _____ FINAL REVIEW _____ DATE _____ DRAINAGE DESIGN: _____ DATE _____ THIS IS FILED IN ACCORDANCE WITH SECTION 7.7.906 (DRAINAGE ORDINANCE) OF THE CODE OF THE CITY OF COLORADO SPRINGS 2001, AS AMENDED	DESIGN DATA: SIDEWALKS: WIDTH: _____ LOCATION: <input type="checkbox"/> Attached <input type="checkbox"/> Detached CURB TYPE: <input type="checkbox"/> 1 <input type="checkbox"/> 5 <input type="checkbox"/> 3 R/W WIDTH: _____ MAT WIDTH: _____ STREET TYPE: _____ HYD: _____	PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/> THICKNESS: _____ COMPOSITE SECTION: _____ HMA: _____ BASE: _____ SUBGRADE STABILIZATION: _____ CHEMICAL: <input type="checkbox"/> MECH: <input type="checkbox"/> TYPE: _____ THICKNESS: _____	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 <table border="1"> <tr> <th>NO.</th> <th>REVISION</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	REVISION	DATE				REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND ARCHITECTS, LLC KYLE R. CAMPBELL, COLORADO 29794 DATE 3/21/20	CLASSIC CONSULTING 619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903 (719) 785-0790 (719) 785-0799 (fax)	FOREST LAKES FILING NO. 5 CONSTRUCTION PLANS PUBLIC STORM SEWER PLAN MAIN A/ MAIN B/ MAIN C PLAN & PROFILE DESIGNED BY: MAL SCALE: (H) 1" = 50' DATE: 07/14/19 DRAWN BY: ESO (V) 1" = 5' SHEET 12 OF 32 CHECKED BY: _____ JOB NO.: 1175.50
NO.	REVISION	DATE											



NOTE:
ALL STORM FACILITIES WITHIN R.O.W.
ARE PUBLIC, UNLESS OTHERWISE
NOTED.

STORM LINE TABLE		
LENGTH	BEARING	
L0 7.27'	N42°34'46\"	
L10 28.34'	N23°57'15\"	
L11 28.21'	N33°53'48\"	
L12 12.05'	S82°34'46\"	
L13 6.60'	N32°25'14\"	
L14 36.36'	N34°14'07\"	
L15 17.77'	S20°23'11\"	
L16 27.18'	S20°23'11\"	
L17 3.16'	S20°23'11\"	

NOTE:
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.

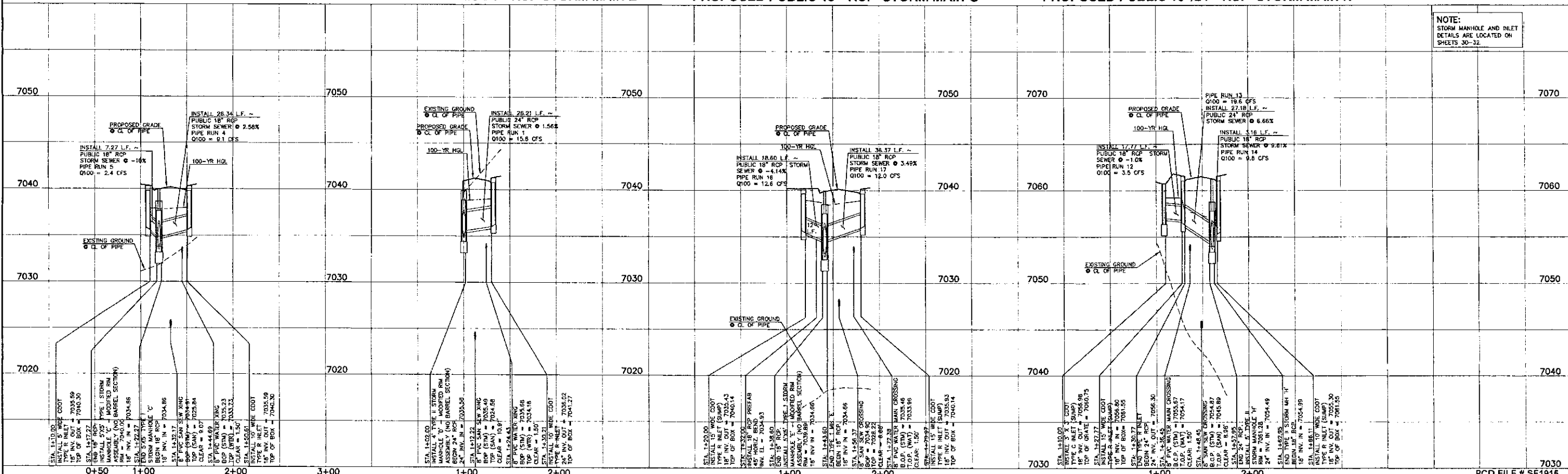
NOTE:
STORM MANHOLE AND INLET
DETAILS ARE LOCATED ON
SHEETS 30-32.

PROPOSED PUBLIC 18" RCP STORM MAIN D

PROPOSED PUBLIC 24" RCP STORM MAIN E

PROPOSED PUBLIC 18" RCP STORM MAIN G

PROPOSED PUBLIC 18"/24" RCP STORM MAIN H



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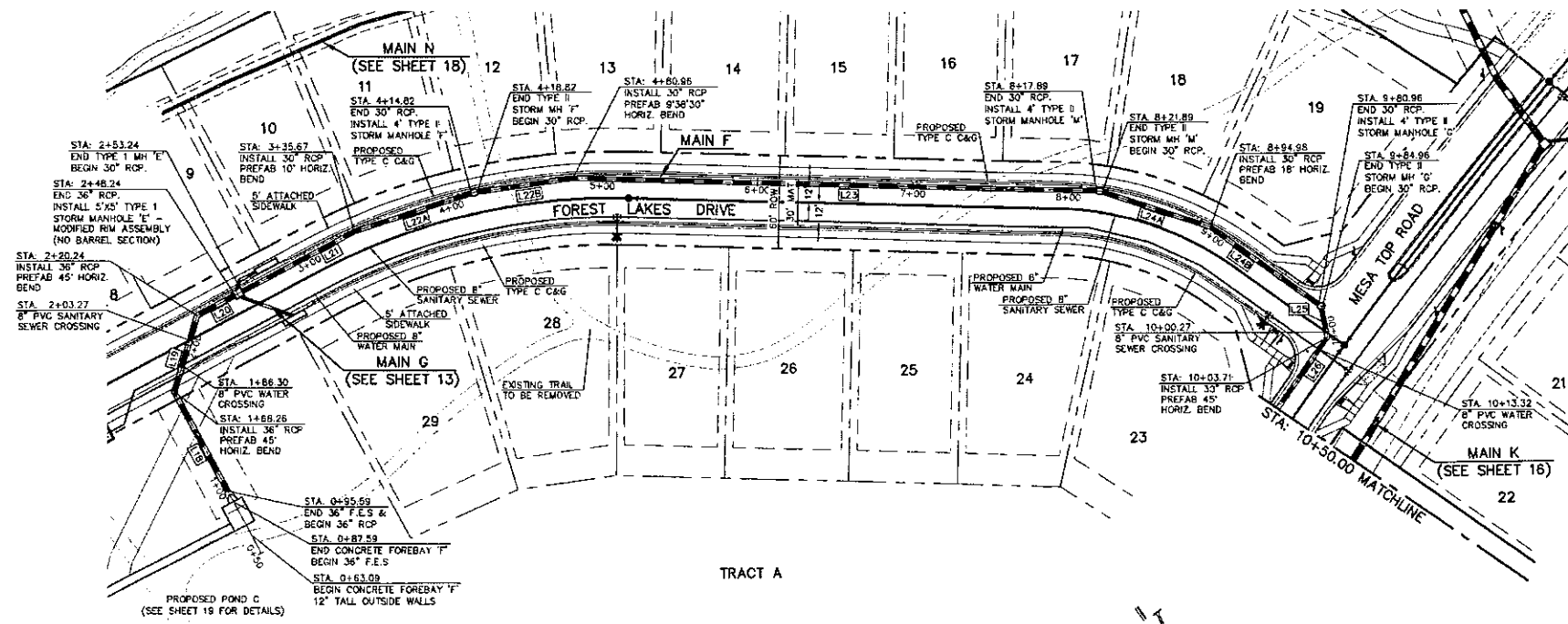
NO.	REVISION	DATE

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

29794
KYLE R. CAMPBELL, COLORADO - P.E.
DATE: 3/24/20

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

FOREST LAKES FILING NO. 5
CONSTRUCTION PLANS
PUBLIC STORM SEWER PLAN
MAIN D, MAIN E, MAIN G, & H PLAN & PROFILE
DESIGNED BY: MAL SCALE: DATE: 07/4/19
DRAWN BY: ESO (H) 1" = 50' SHEET 13 OF 32
CHECKED BY: (V) 1" = 5' JOB NO. 1175.50



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

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

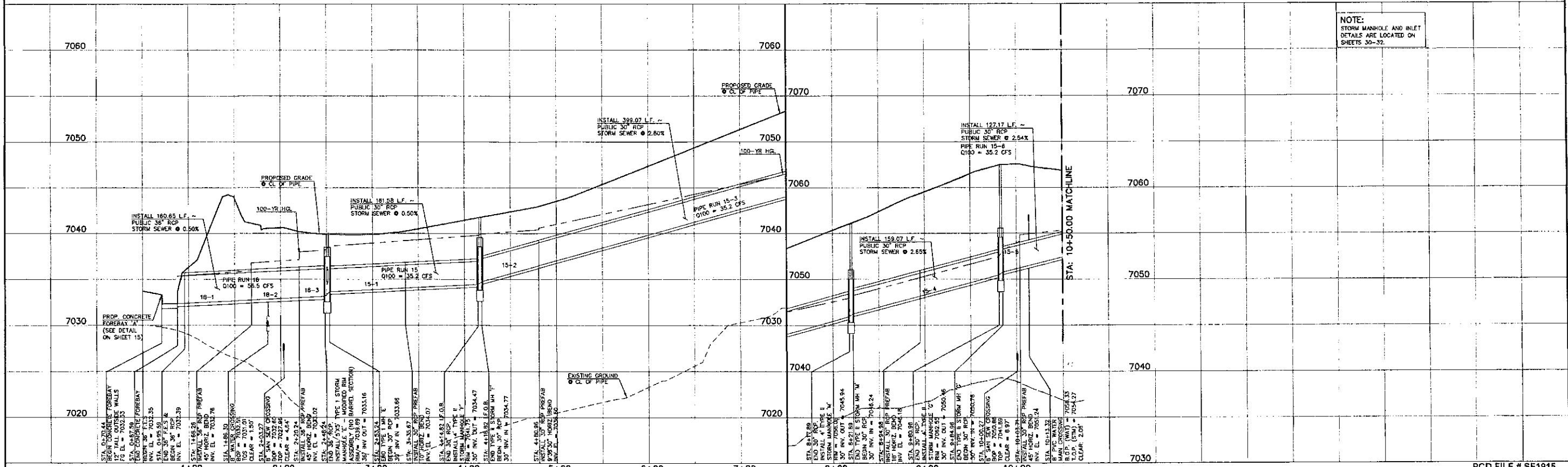
NOTE:
ALL STORM FACILITIES ARE PUBLIC WITHIN R.O.W., UNLESS OTHERWISE NOTED.

STORM LINE TABLE

LENGTH	BEARING
L18 80.67'	S72°51'4"W
L19 51.98'	S22°31'4"W
L20 28.00'	N82°34'46"W
L21 82.43'	N82°34'46"W
L22A 79.15'	N72°32'50"W
L22B 64.14'	N62°34'46"W
L23 336.93'	N52°30'18"W
L24A 72.09'	N36°24'10"W
L24B 85.88'	N18°24'10"W
L25 20.74'	N25°30'29"E
L26 108.43'	N70°30'29"E

NOTE:
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.

PROPOSED PUBLIC 18"/30"/36" RCP STORM MAIN F



NOTE:
STORM MANHOLE AND INLET DETAILS ARE LOCATED ON SHEETS 30-32.

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NO. REVISION	DATE

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

Kyle R. Campbell
KYLE R. CAMPBELL, COLORADO P.E. #22784

DATE: 3/2/20

CLASSIC CONSULTING

618 R. Colorado Avenue, Suite 200
Colorado Springs, Colorado 80903
(719)785-0790
(719)785-0795 (fax)

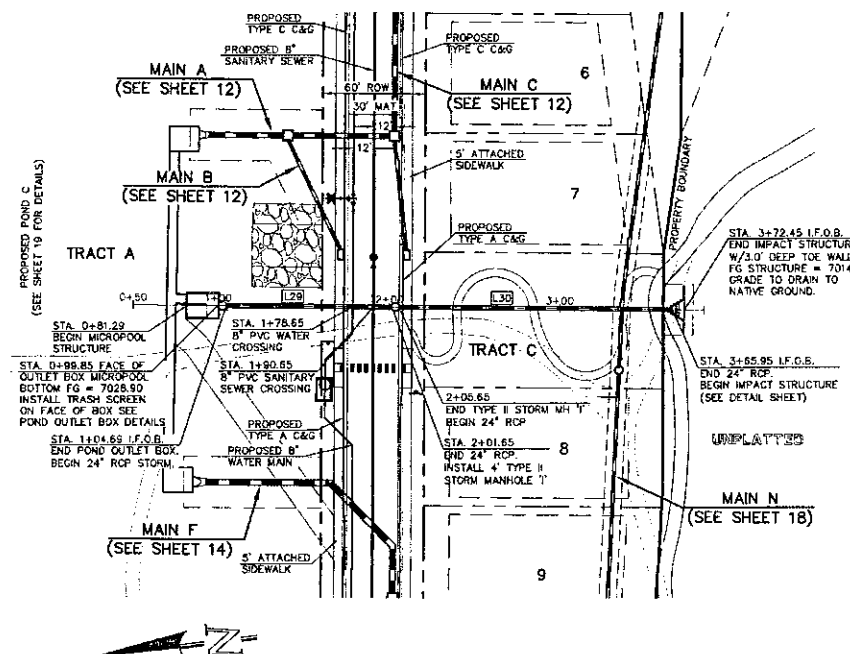
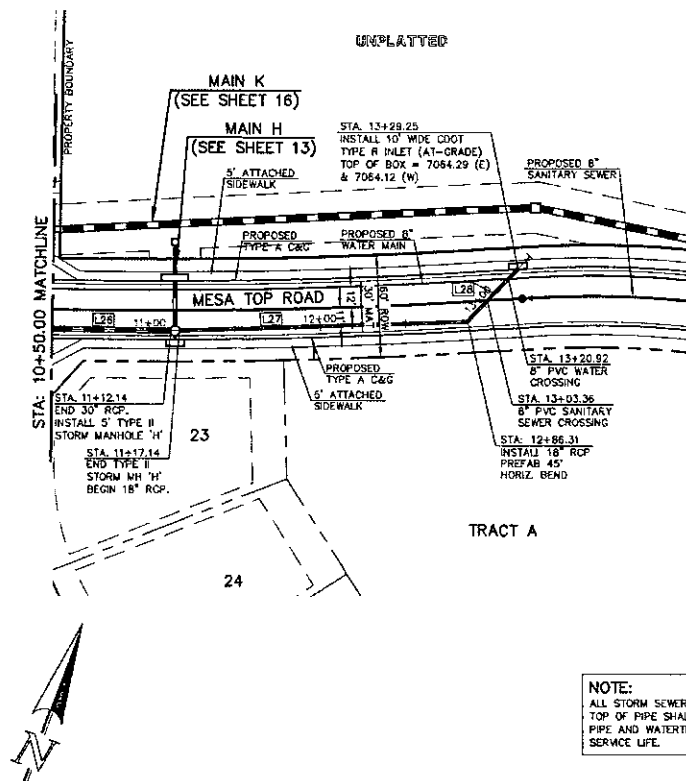
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FOREST LAKES FILING NO. 5
CONSTRUCTION PLANS
PUBLIC STORM SEWER PLAN
MAIN F PLAN & PROFILE

DESIGNED BY	SCALE	DATE
WAL	(H) 1" = 50'	07/14/19

DRAWN BY	SCALE	SHEET	OF
ESO	(V) 1" = 5'	14	32

CHECKED BY	DATE	JOB NO.
		1175.50



STORM LINE TABLE		
LENGTH	BEARING	
L26	128.43'	N70°30'26"E
L27	189.17'	N67°42'34"E
L28	42.95'	N22°42'34"E
L29	96.97'	S07°25'14"W
L30	160.29'	S07°25'14"W

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

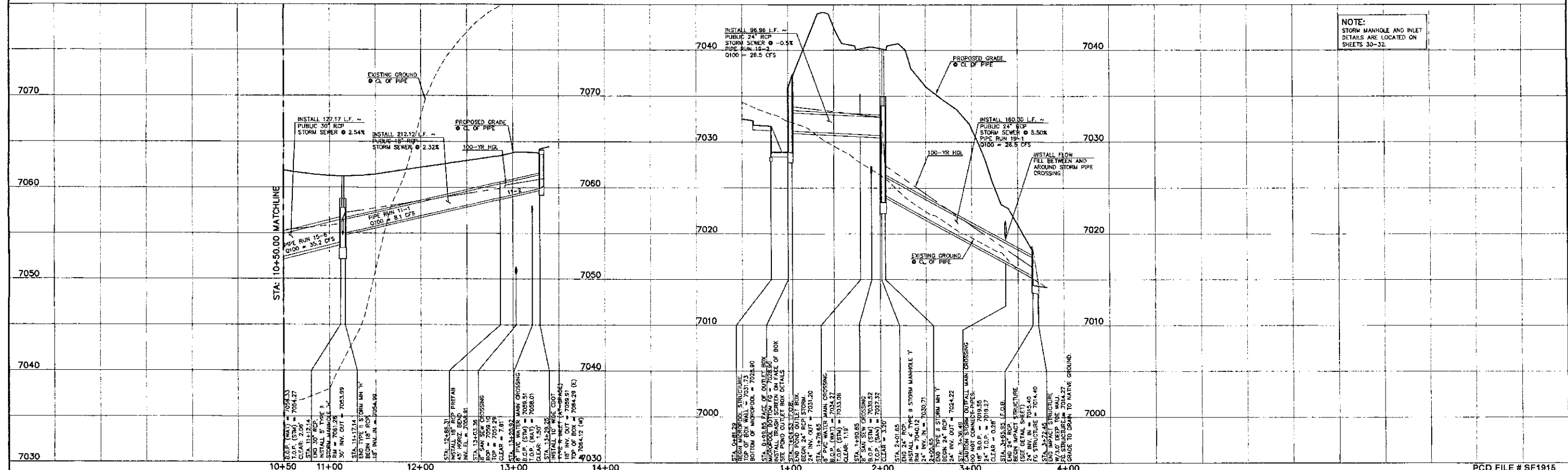
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SCALE: 1" = 50' HORIZ. / 1" = 5' VERT.

NOTE:
ALL STORM SEWER WITH 100-YR HGL ABOVE THE TOP OF PIPE SHALL BE INSTALLED WITH PRESSURE PIPE AND WATERTIGHT JOINTS WITH A 100-YEAR SERVICE LIFE.

NOTE:
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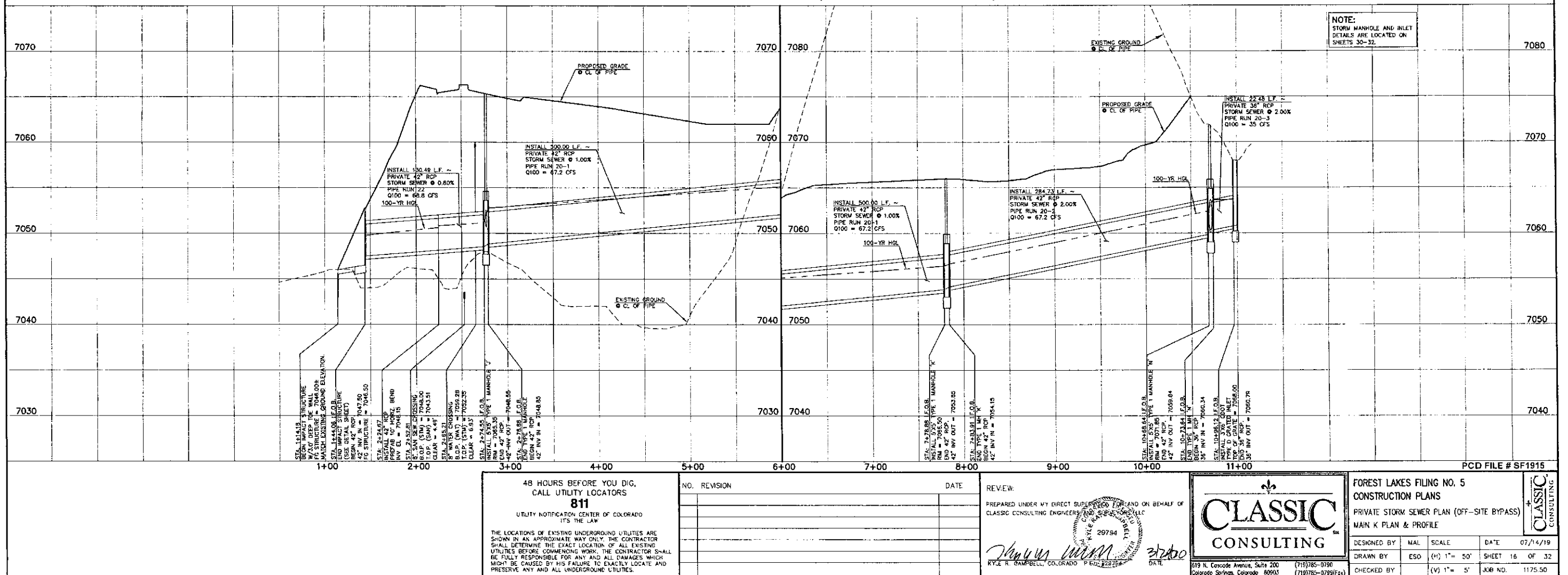
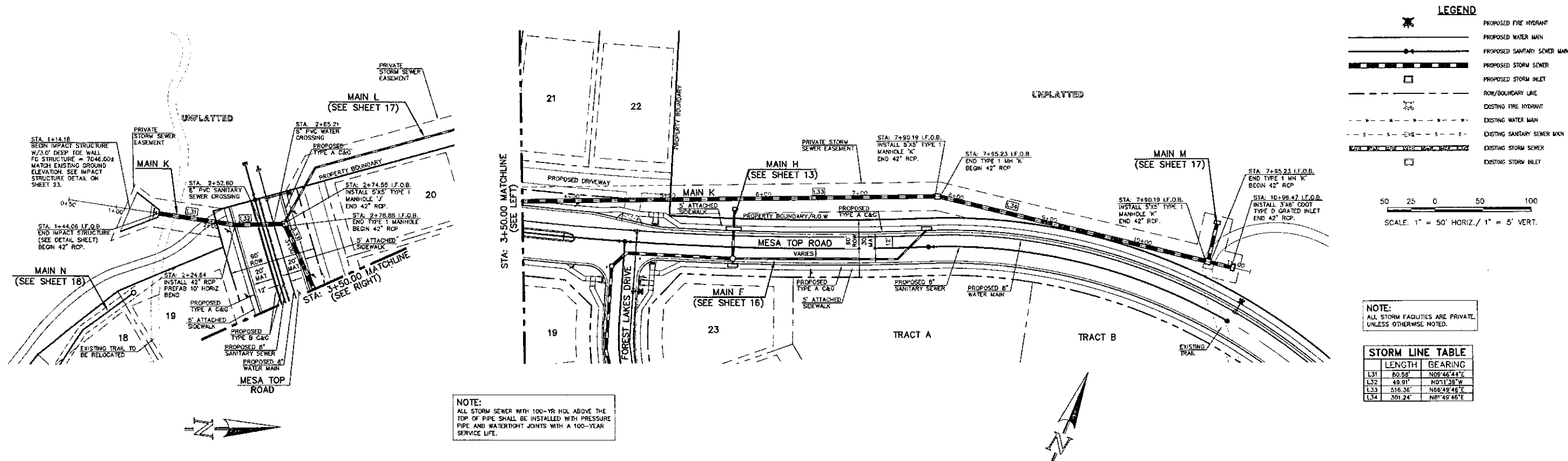
PROPOSED PUBLIC 18"/30"/36" RCP STORM MAIN F

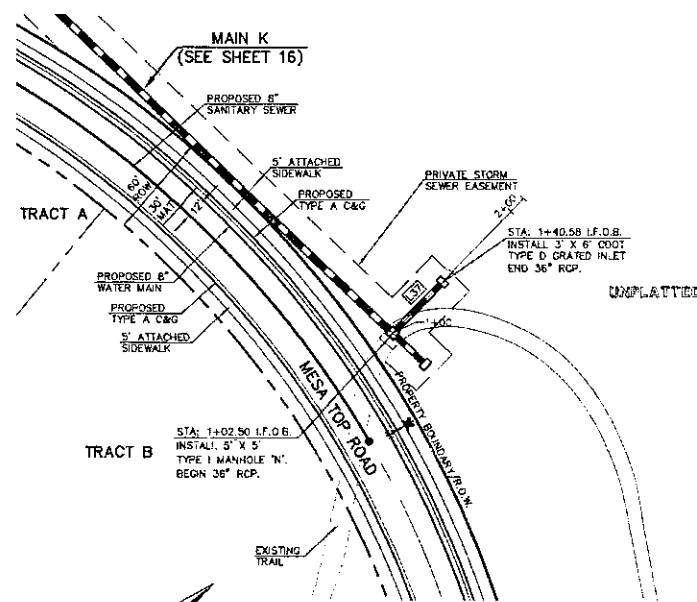
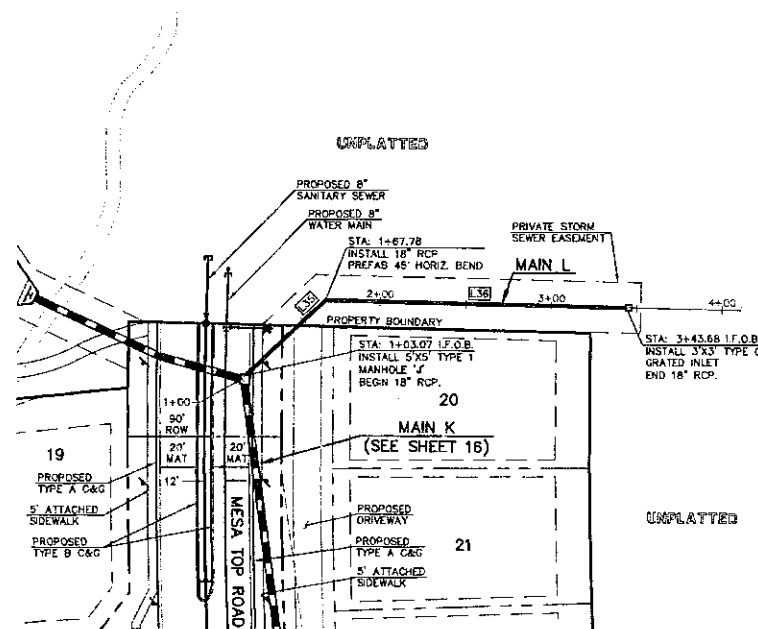
PROPOSED PRIVATE 24" RCP STORM MAIN J



NOTE:
STORM MANHOLE AND INLET DETAILS ARE LOCATED ON SHEETS 30-32.

REVIEW: STREET DESIGN FOR CITY ENGINEERING: _____ DATE _____ UTILITY GRADE REVIEW: _____ DATE _____ TRAFFIC SIGNAGE & STRIPING: _____ DATE _____ CURB & GUTTER REVIEW: _____ DATE _____ FINAL REVIEW: _____ DATE _____ DRAINAGE DESIGN: _____ DATE _____ THIS IS FILED IN ACCORDANCE WITH SECTION 7.7.905 (DRAINAGE ORDINANCE) OF THE CODE OF THE CITY OF COLORADO SPRINGS 2001, AS AMENDED.		DESIGN DATA: SIDEWALKS: WIDTH: _____ LOCATION: <input type="checkbox"/> Attached <input type="checkbox"/> Detached CURB TYPE: <input type="checkbox"/> 1 <input type="checkbox"/> 5 <input type="checkbox"/> 3 MAT WIDTH: _____ STREET TYPE: _____ HVEEM: _____ THICKNESS: _____		PAVEMENT: TYPE: HMA <input type="checkbox"/> PCC <input type="checkbox"/> THICKNESS: _____ COMPOSITE SECTION: _____ BASE: _____ SUBGRADE STABILIZATION: _____ CHEMICAL: <input type="checkbox"/> MECH: <input type="checkbox"/>		48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS 811 UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.		NO. REVISION _____ DATE _____		REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS, P.C. KYLE R. CAMPBELL, COLORADO P.E. 29794 DATE: 7/24/20		FOREST LAKES FILING NO. 5 CONSTRUCTION PLANS PUBLIC/PRIVATE STORM SEWER PLAN MAIN F/ MAIN J PLAN & PROFILE DESIGNED BY: MAL SCALE: DATE: 07/14/19 DRAWN BY: ESO (H) 1"= 50' SHEET 15 OF 32 CHECKED BY: (V) 1"= 5' JOB NO: 1175.50	
--	--	--	--	--	--	--	--	---	--	--	--	---	--





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

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

NOTE:
ALL STORM FACILITIES ARE PRIVATE,
UNLESS OTHERWISE NOTED.

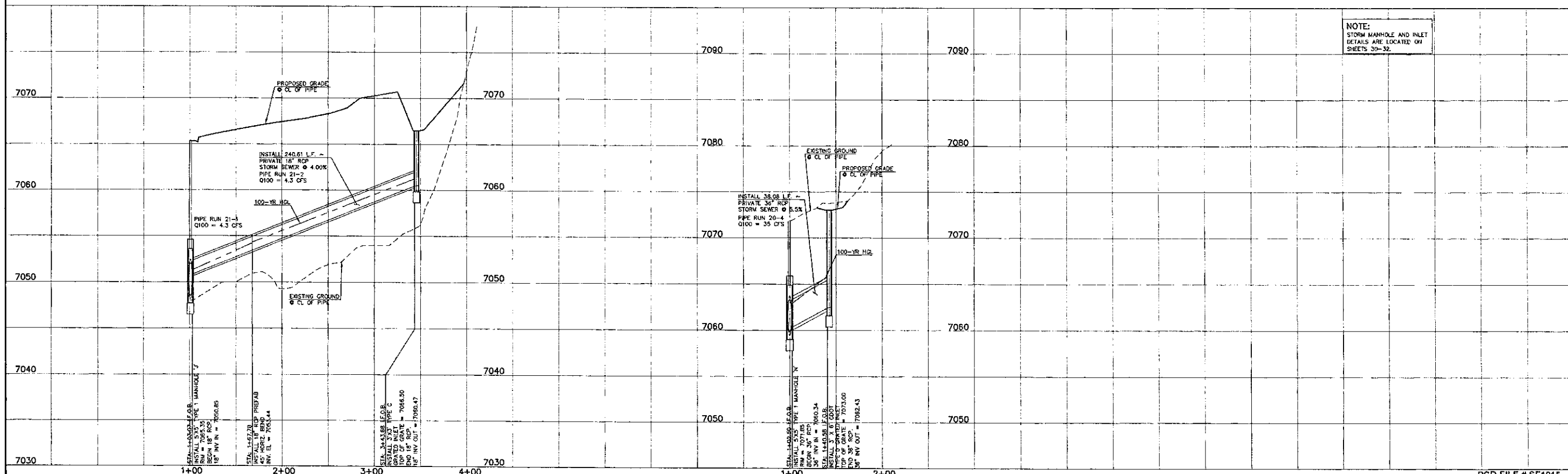
STORM LINE TABLE

	LENGTH	BEARING
L35	67.78'	N59°22'55"W
L36	175.90'	N14°22'55"W
L37	57.08'	N36°48'46"E

NOTE:
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.

PROPOSED PRIVATE 18" RCP STORM MAIN L (OFF-SITE SYSTEM BYPASS)

PROPOSED PRIVATE 36" RCP STORM MAIN M (OFF-SITE SYSTEM BYPASS)



NOTE:
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SHEETS 30-32.

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PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION	DATE

REVIEW:

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CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC

Kyle R Campbell
KYLE R CAMPBELL, COLORADO LICENSE # 29794

DESIGNED BY: MAL
DRAWN BY: ESO
CHECKED BY: (V) 1"= 5'

SCALE: (H) 1"= 50'

DATE: 07/14/19

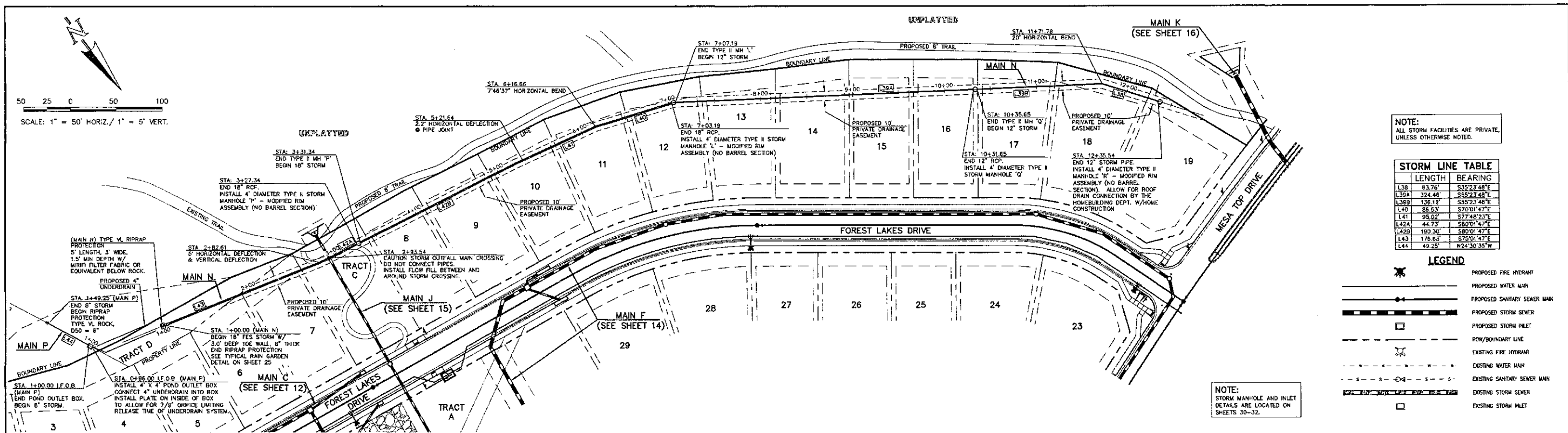
SHEET 17 OF 32

JOB NO. 1175.50

FOREST LAKES FILING NO. 5
CONSTRUCTION PLANS
PRIVATE STORM SEWER PLAN (OFF-SITE BYPASS)
MAIN L / MAIN M PLAN & PROFILE

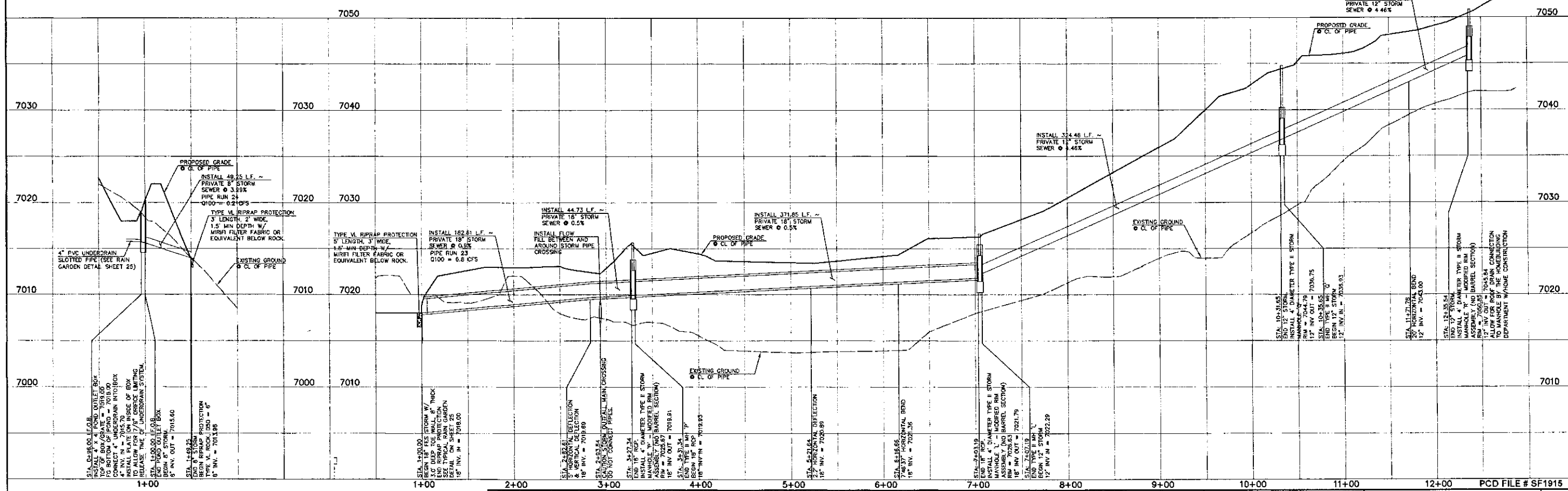
CLASSIC CONSULTING

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



PROPOSED PRIVATE 8" STORM MAIN P

PROPOSED PRIVATE 12/18" STORM MAIN N



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NO.	REVISION	DATE

REVIEW:

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CLASSIC CONSULTING ENGINEERS AND SURVEYORS

Kyle R. Campbell
KYLE R. CAMPBELL, COLORADO P.E. #29784 DATE 2/24/20

FOREST LAKES FILING NO. 5
CONSTRUCTION PLANS
PRIVATE STORM SEWER PLAN
MAIN P / MAIN N PLAN & PROFILE

DESIGNED BY: MAL SCALE: DATE: 07/14/19
DRAWN BY: ESO (H) 1" = 50' SHEET 18 OF 32
CHECKED BY: (V) 1" = 5' JOB NO. 1175 SC

619 N. Cascade Avenue, Suite 200 (719) 785-0780
Colorado Springs, Colorado 80903 (719) 785-0789 (Fax)

EPC 6/9/2020

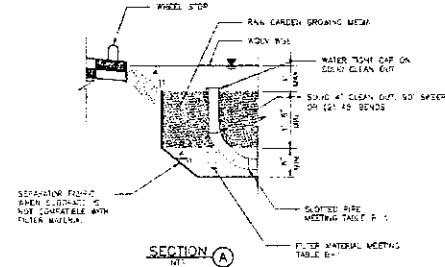


Table B-2. Gradation Specifications for CDOT Class C Filter Material
(Source: CDOT Table 703-7)

Sieve Size	Mass Percent Passing Square Mesh Sieves
120 mm (3.4")	100
4.75 mm (No. 4)	60 - 100
300 µm (No. 50)	10 - 30
150 µm (No. 100)	0 - 10
75 µm (No. 200)	0 - 3

Table B-3. Dimensions for Slotted Pipe

Pipe Diameter	Slot Length ¹	Maximum Slot Width	Slot Centers ¹	Open Area ¹ (per foot)
4"	1-1/16"	0.032"	0.413"	1.90 m ²
6"	1-3/8"	0.032"	0.516"	1.98 m ²

¹ Some variation in these values is acceptable and is expected from various pipe manufacturers. Be aware that both increased slot length and decreased slot centers will be beneficial to hydraulics but detrimental to the structure of the pipe.

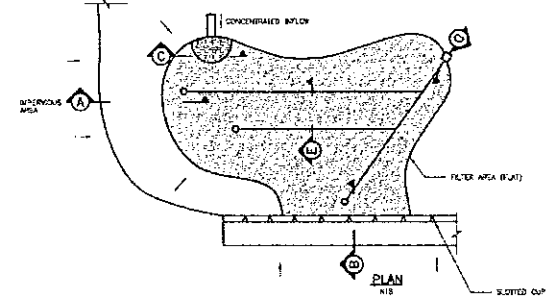
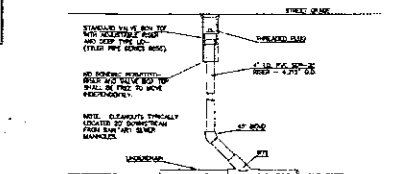


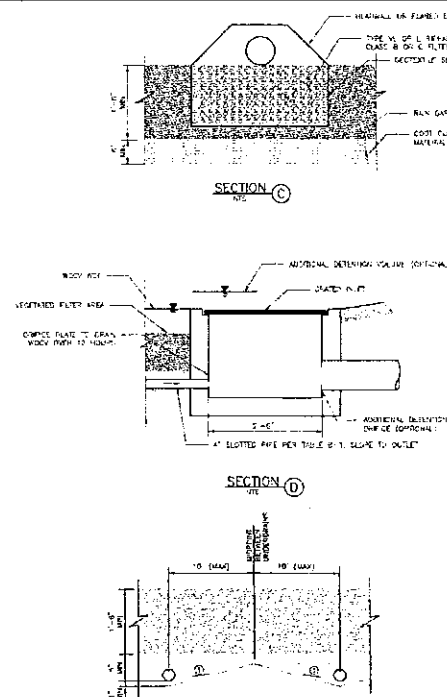
Figure B-1 - Typical rain garden plan and sections

RESEEDING MIX:
SEE SHEET 6 FOR NATIVE SEED MIX FOR RAIN GARDENS



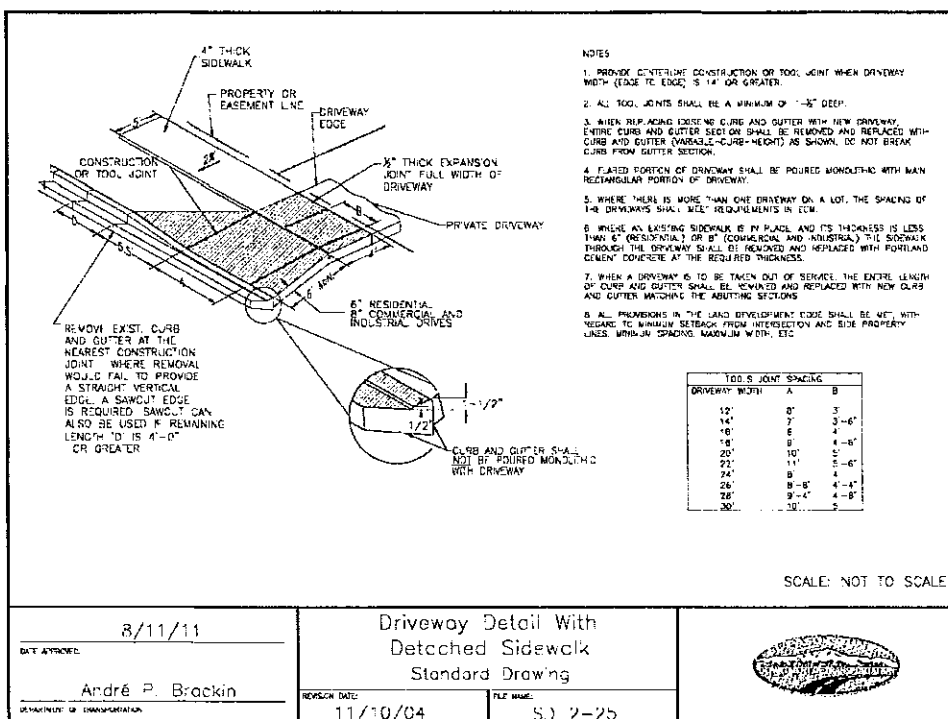
TYPICAL UNDERDRAIN CLEANOUT
N.T.S.

DRIVEWAY DETAIL:
SEE SHEET 6 FOR DRIVEWAY DETAIL WITH ATTACHED SIDEWALK (SD-24)



① SLOPE SIDEWALK CORNER SUFFICIENTLY TO UNDERPIN TO REDUCE SATURATED SOIL CONDITIONS BETWEEN STEPS (OPTIONAL)

SECTION C-C
N.T.S.



SCALE: NOT TO SCALE

8/11/11

André P. Brackin

REVISION DATE: 11/10/04

FILE NAME: SJ 2-25

Driveway Detail with
Detached Sidewalk
Standard Drawing



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NO. REVISION	DATE	REVIEW:

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CLASSIC CONSULTING ENGINEERS AND ARCHITECTS, LLC
KYLE R. CAMPBELL, COLORADO, P.E. License No. 29794
DATE: 3/21/10

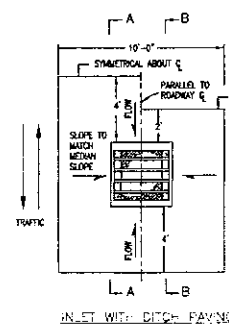
CLASSIC CONSULTING
619 N. Cascade Avenue, Suite 200
Colorado Springs, Colorado 80903
(719) 785-0790
(719) 785-0799 (fax)

FOREST LAKES FILING NO. 5
CONSTRUCTION DRAWINGS
DETAILS SHEET
DESIGNED BY: MAL
SCALE: (H) 1" = N/A
DATE: 07/14/19
DRAWN BY: BB
(V) 1" = N/A
SHEET: 32 OF 32
CHECKED BY: JCB
JOB NO.: 1175.50

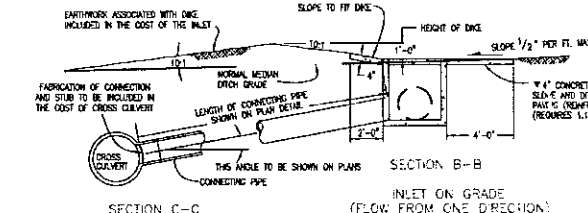
EPC 6/9/2020

STEEL GRATE QUANTITIES

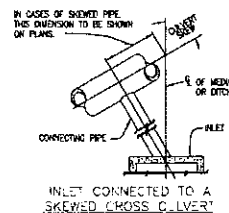
NO. PIECES	DESCRIPTION	LENGTH PER FT. (LBS.)	WEIGHT
4	54" x 7.7" BEAM	40'	2.70 (103)
2	3 1/2" x 1/4" FLAT	26.50'	2.88 (13)
2	3" x 1/4" FLAT	26.50'	2.55 (12)
		TOTAL	129 LBS.



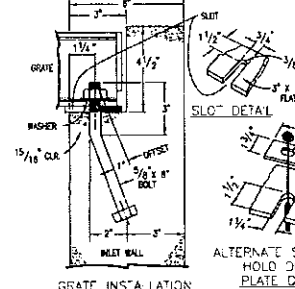
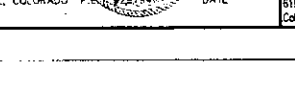
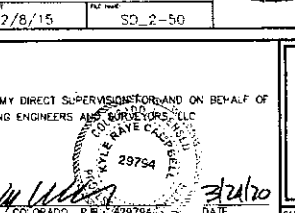
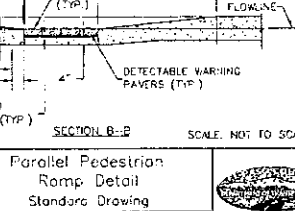
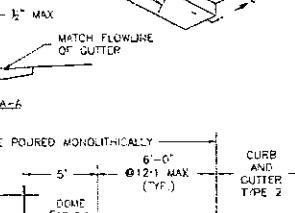
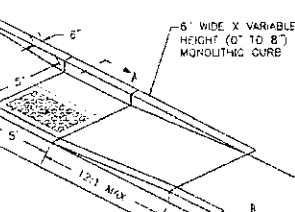
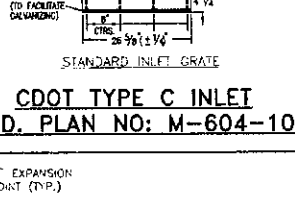
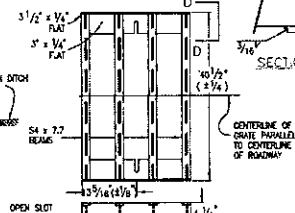
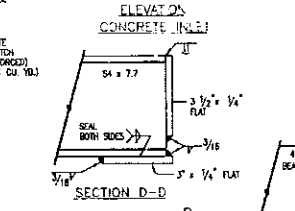
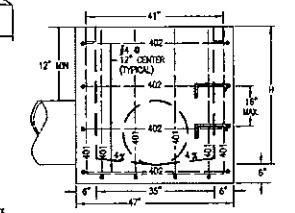
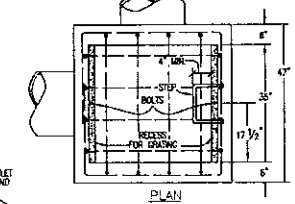
INLET WITH DITCH PAVING



SECTION C-C
INLET CONNECTED TO A CROSS CULVERT



SECTION A-A
INLET AT BOTTOM OF VERTICAL CURVE



GENERAL NOTES

1. CONCRETE SHALL BE CLASS B INLET MAY BE CAST-IN-PLACE OR PRECAST.
2. REINFORCING BARS SHALL BE EPOXY COATED AND TREATED TO RESIST CORROSION AND SHALL HAVE A MINIMUM 2" X 1/4" CLEARANCE.
3. CONCRETE SLOPE AND DITCH PAVING SHALL CONFORM TO SECTION 507. REINFORCEMENT FOR CONCRETE SLOPE PAVING SHALL BE 6" X 6" - 18" X 18" W/4 OR 6" X 6" - 18" X 18" W/4.
4. STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH 712.06.
5. THE STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS CLOSE MESH GRATES ARE SPECIFIED ON THE PLANS.
6. STEPS SHALL BE PROVIDED WHEN INLET OVERSLOPE 1/4" EXCEEDS 3 FT.-6" IN AND SHALL BE IN ACCORDANCE WITH 119.0.
7. SEE SHEET M-604-11, INLET, TYPE D, FOR REINFORCEMENT AROUND THE PIPE OPENING.

CONCRETE SLOPE AND DITCH PAVING WILL BE REQUIRED WHEN SHOWN ON PLANS.

3/8" TYPICAL HOLE ROUNDED OR TWISTED CROSS BARS AT 4" O.C. WELDED TO 4" X 3/4" BEARING BARS SPACED AT 2'-6" C.T.C.

AND ONE BAR FOR EACH FOOT INCREASE OF 1" ABOVE 2'-6".

ALL BARS TO BE 1/2" DIA. OUT ON BEND AROUND PIPES AS REQUIRED.

402 BARS WILL BE EQUALLY SPACED FROM EACH OTHER.

3/8" TYPICAL HOLE ROUNDED OR TWISTED CROSS BARS AT 4" O.C. WELDED TO 4" X 3/4" BEARING BARS SPACED AT 2'-6" C.T.C.

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QUANTITIES FOR ONE INLET

H	CONCRETE	REINFORCING	NO. STEPS
2'-0"	0.8	1.0	0
3'-0"	1.2	1.0	0
4'-0"	1.2	1.0	1
5'-0"	1.2	1.0	2
6'-0"	1.2	1.0	3
7'-0"	1.2	1.0	4
8'-0"	1.2	1.0	5
9'-0"	1.2	1.0	6
10'-0"	1.2	1.0	7
11'-0"	1.2	1.0	8
12'-0"	1.2	1.0	9

* INCLUDES VOLUME OCCUPIED BY PIPES

BAR LIST FOR H=2'-6"

AND BENDING DIAGRAM

MARK	NO.	REBAR	LENGTH
401	2	2'-0"	7'-11"
401	6	2'-0"	8'-7"
402	3	2'-0"	15'-0"

NO. 401

NO. 402

NO. 403

NO. 404

NO. 405

NO. 406

NO. 407

NO. 408

NO. 409

NO. 410

NO. 411

NO. 412

NO. 413

NO. 414

NO. 415

NO. 416

NO. 417

NO. 418

NO. 419

NO. 420

NO. 421

NO. 422

NO. 423

NO. 424

NO. 425

NO. 426

NO. 427

NO. 428

NO. 429

NO. 430

NO. 431

NO. 432

NO. 433

NO. 434

NO. 435

NO. 436

NO. 437

NO. 438

NO. 439

NO. 440

NO. 441

NO. 442

NO. 443

NO. 444

NO. 445

NO. 446

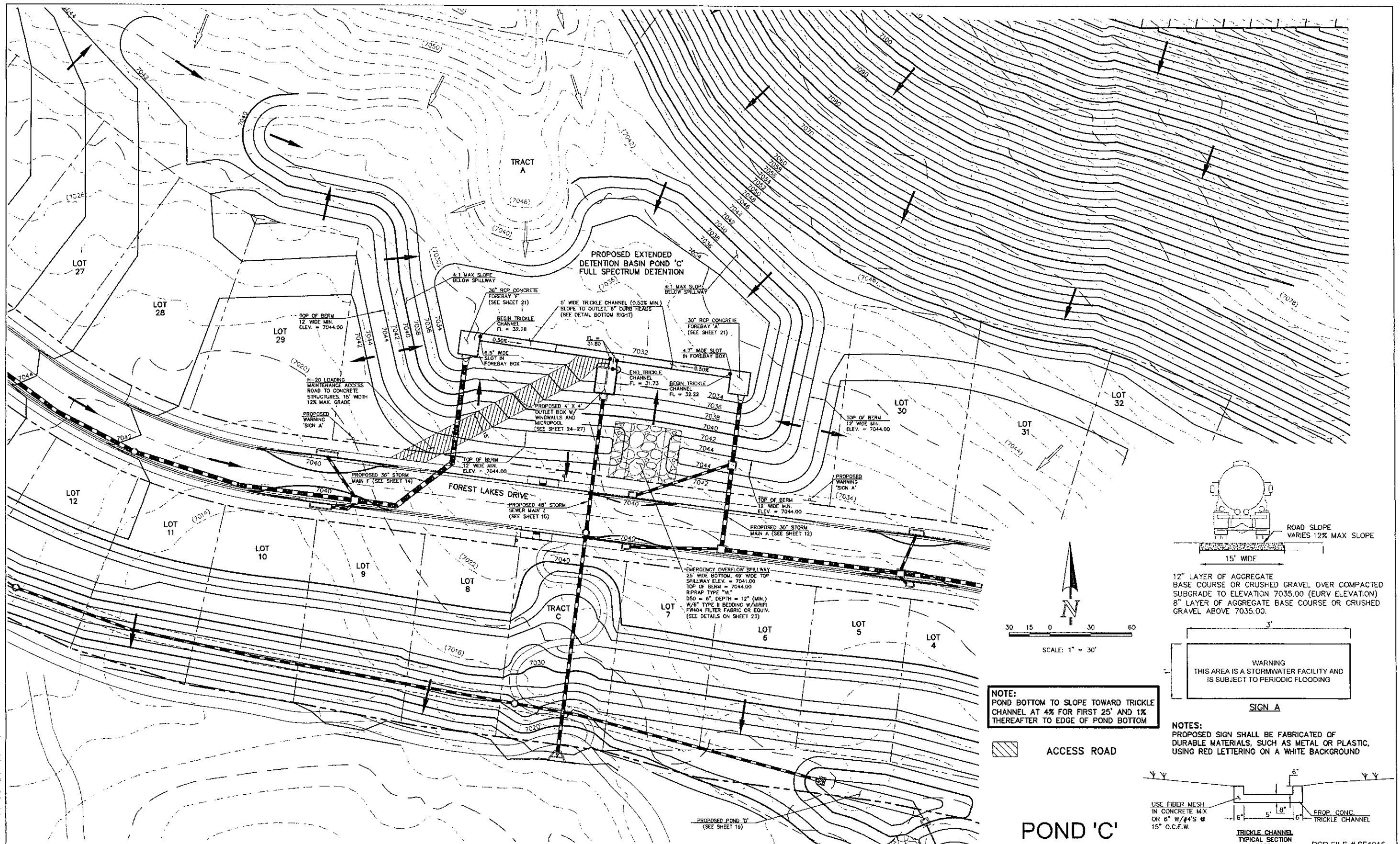
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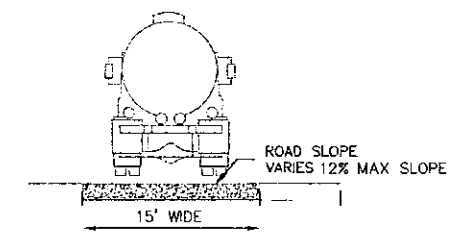
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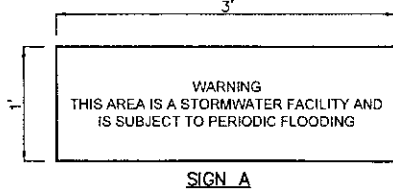


NOTE:
POND BOTTOM TO SLOPE TOWARD TRICKLE CHANNEL AT 4% FOR FIRST 25' AND 1% THEREAFTER TO EDGE OF POND BOTTOM

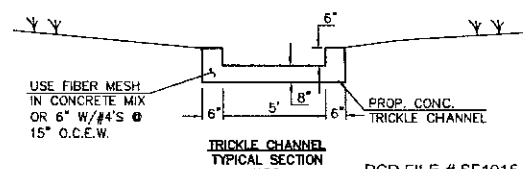
ACCESS ROAD



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



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



POND 'C'

PCD FILE # SF1915

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

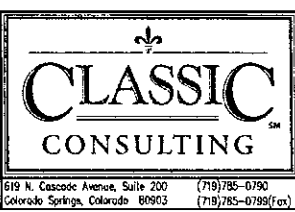
48 HOURS BEFORE YOU DIG,
CALL UTILITY LOCATORS
811

UTILITY NOTIFICATION CENTER OF COLORADO
IT'S THE LAW

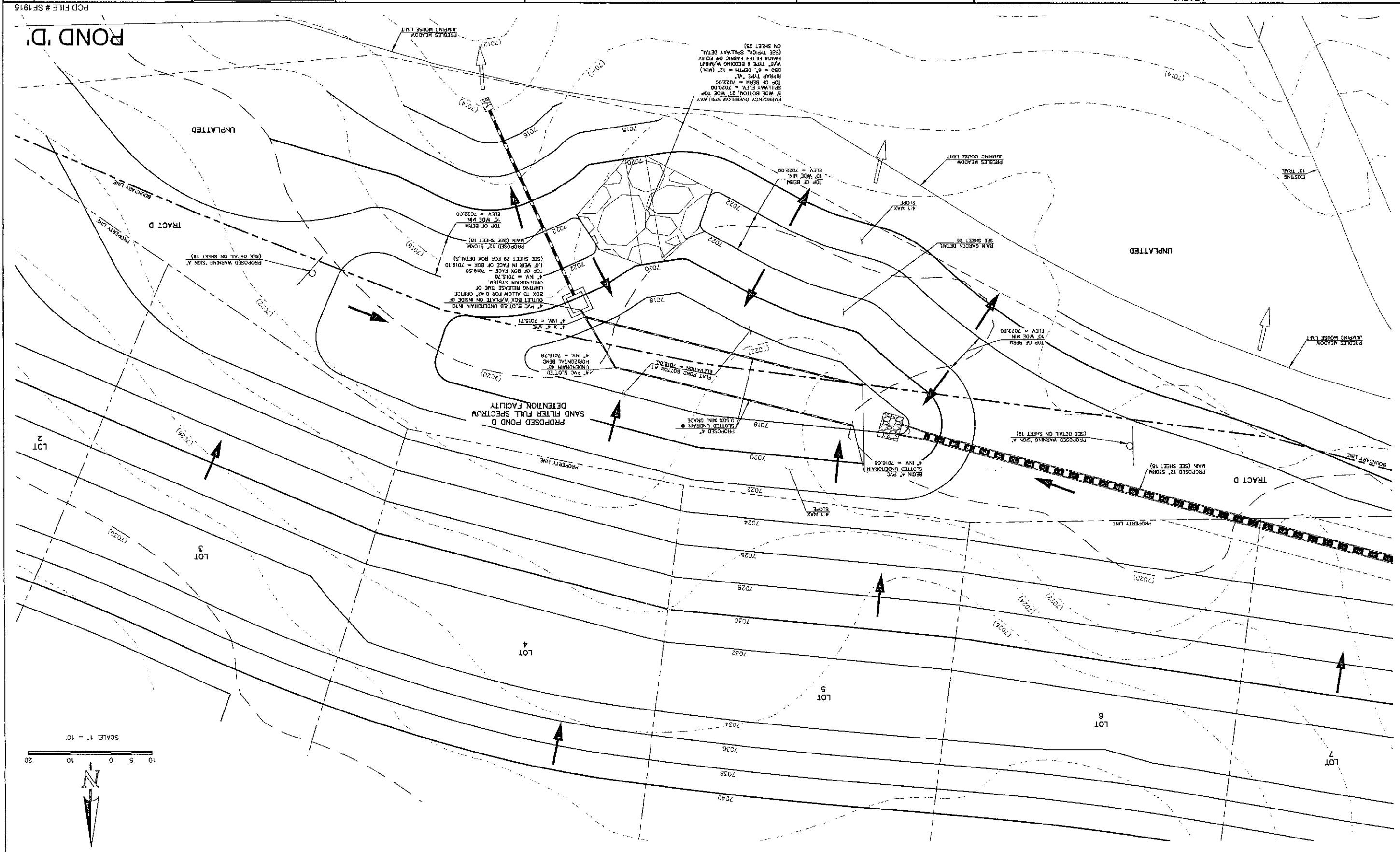
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE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

NO.	REVISION	DATE

REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
KYLE R. CAMPBELL, COLORADO P.E. #28794/UTL EXPIRATION DATE 3/2020



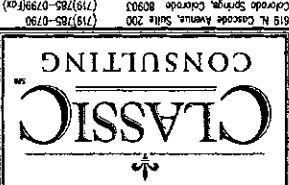
FOREST LAKES FILING NO. 5 CONSTRUCTION DRAWINGS				
POND 'C' EDB - FULL SPECTRUM DETENTION				
DESIGNED BY	MAL	SCALE	DATE	07/14/19
DRAWN BY	BB	(H) 1" = 30'	SHEET	19 OF 32
CHECKED BY	(V) 1" =		JOB NO.	1175.50



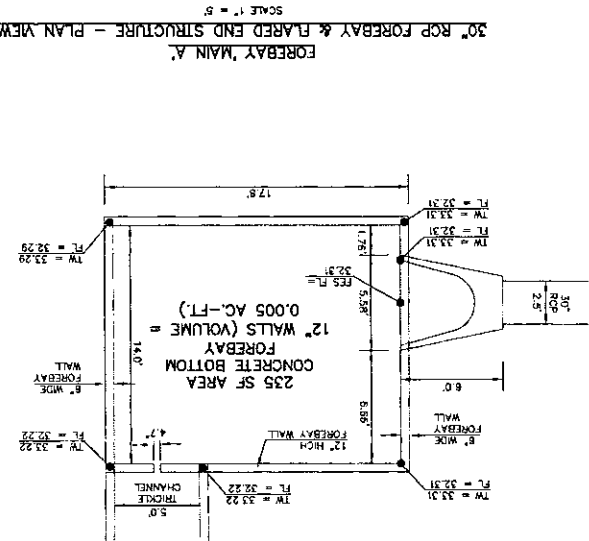
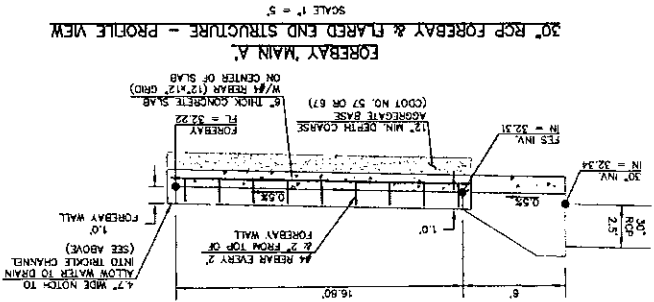
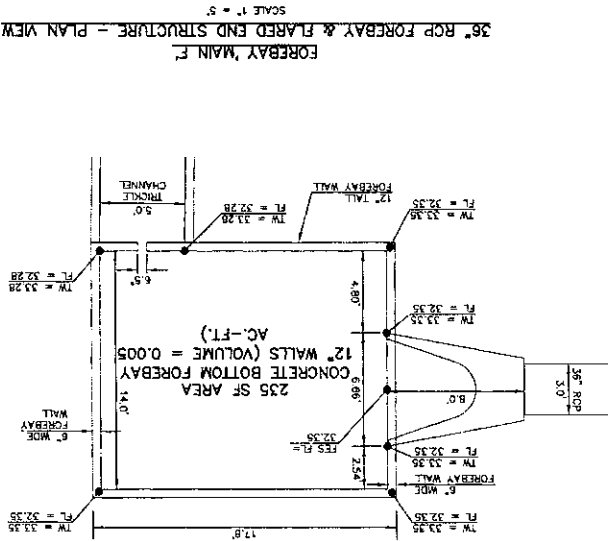
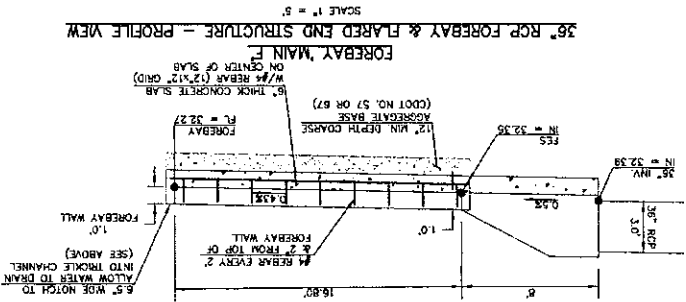
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NO.	REVISION	DATE

REVIEW
CLASSIC CONSULTING ENGINEERS AND ARCHITECTS, LLC
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF
DATE
KYLE R. CAMPBELL, COLORADO P.E. #25794
615 N. Cascade Avenue, Suite 200
(719) 585-0790
Colorado Springs, Colorado 80903



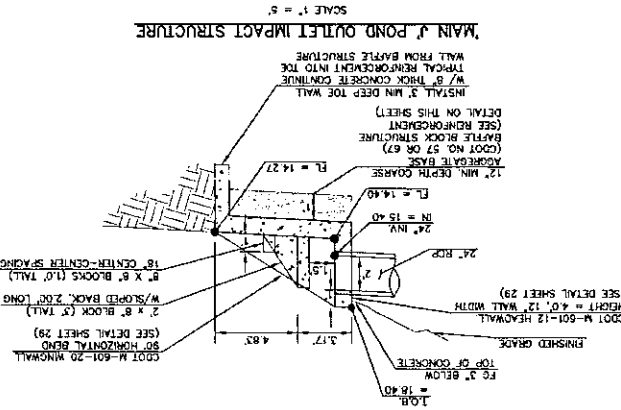
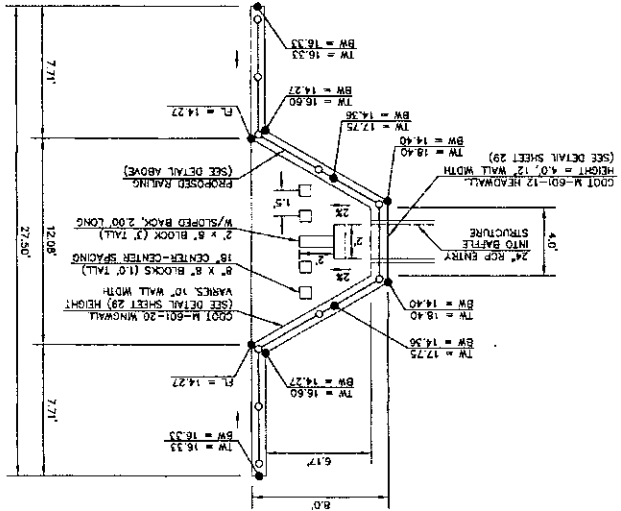
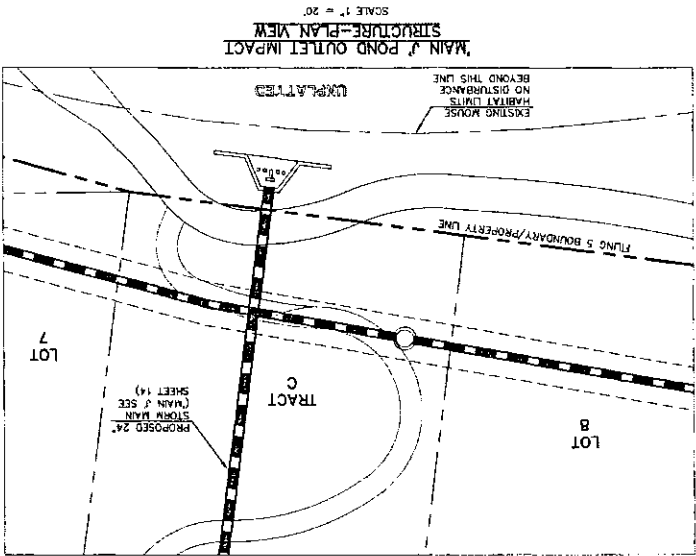
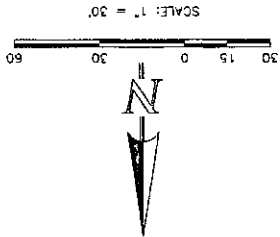
FOREST LAKES FILING NO. 5 CONSTRUCTION DRAWINGS FOREBAY MAIN A / MAIN F STRUCTURES	DESIGNED BY: MAL SCALE DATE: 07/14/19	DRAWN BY: BB (H) 1" = 5' (V) 1" = N/A JOB NO.: 1179-50
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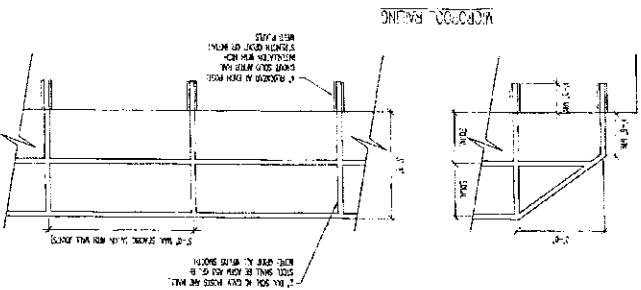
POND 'C'

PCD FILE # SF1915

EPC 6/9/2020



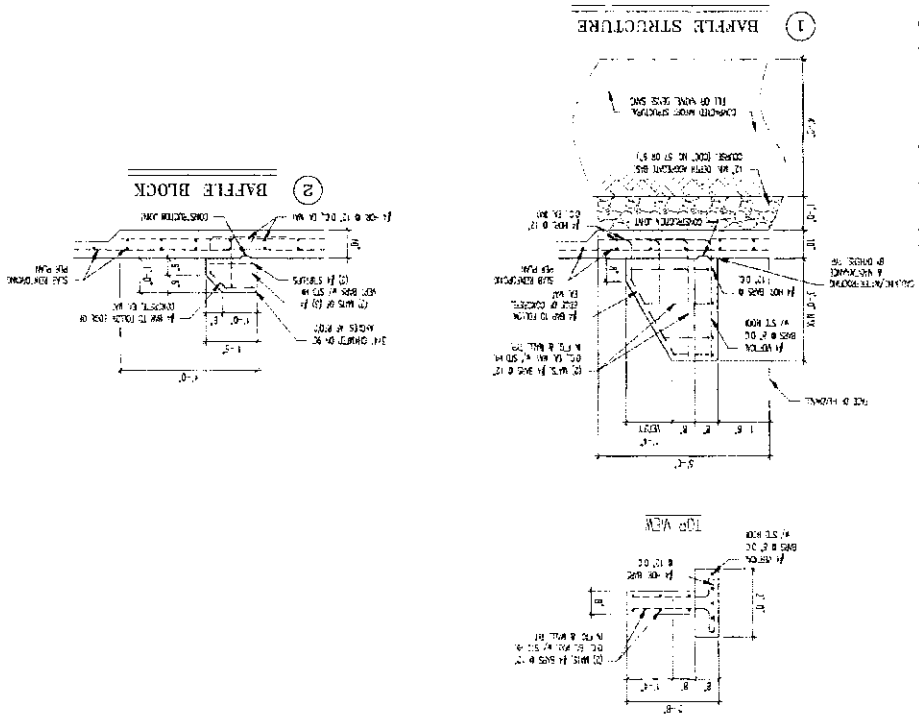
48 HOURS BEFORE YOU DIG,
CALL UTILITY LOCATORS, 811
UTILITY NOTIFICATION CENTER OF COLORADO
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MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND
PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



- NOTES:
1. WELD PLATES MAY BE SUBSTITUTED FOR PIPE EMBEDMENT.
 2. DESIGN CRITERIA SHALL BE IN ACCORDANCE WITH AASHTO STANDARDS.
 3. HANDRAIL DESIGN SHALL BE COMPATIBLE WITH THE DESIGN OF THE WINGWALLS.
 4. RAILING POSTS SHALL BE SET TO NORMAL TO GRADE. RAILS SHALL RUN PARALLEL TO THE SLOPES OF THE WALLS.
 5. ENDS SHALL BE FREE OF ANY SHARP EDGES OR CORNERS.

OUTLET BOX RAILING

N.T.S.



POND "C" OUTLET

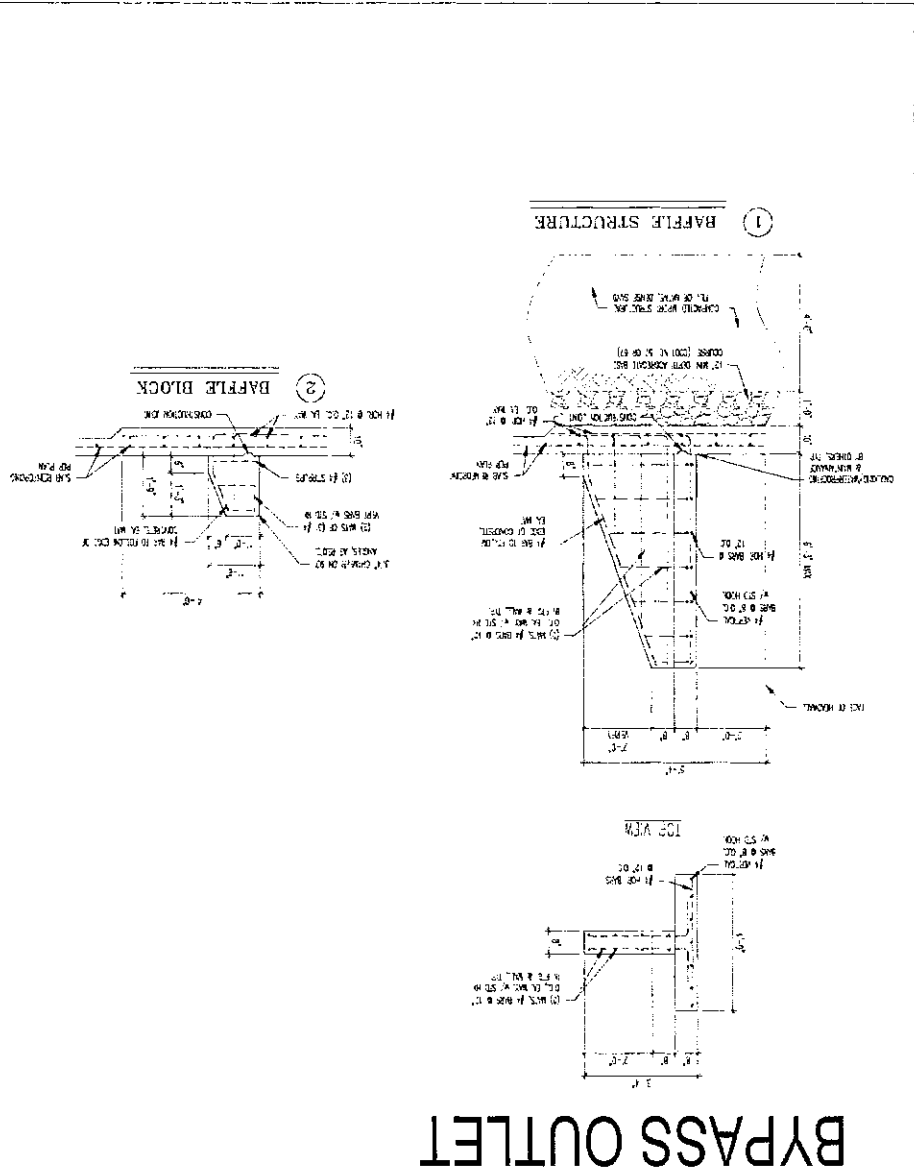
BAFFLE REINFORCING

N.T.S.

POND "C" OUTLET

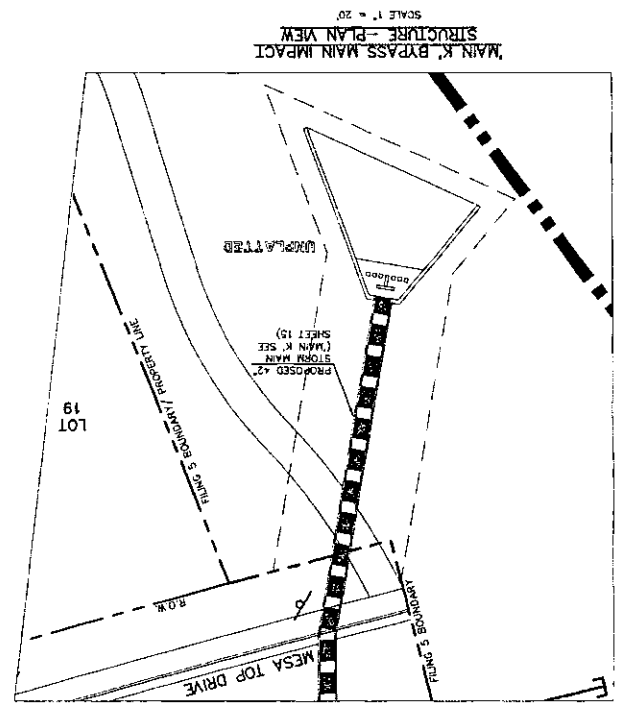
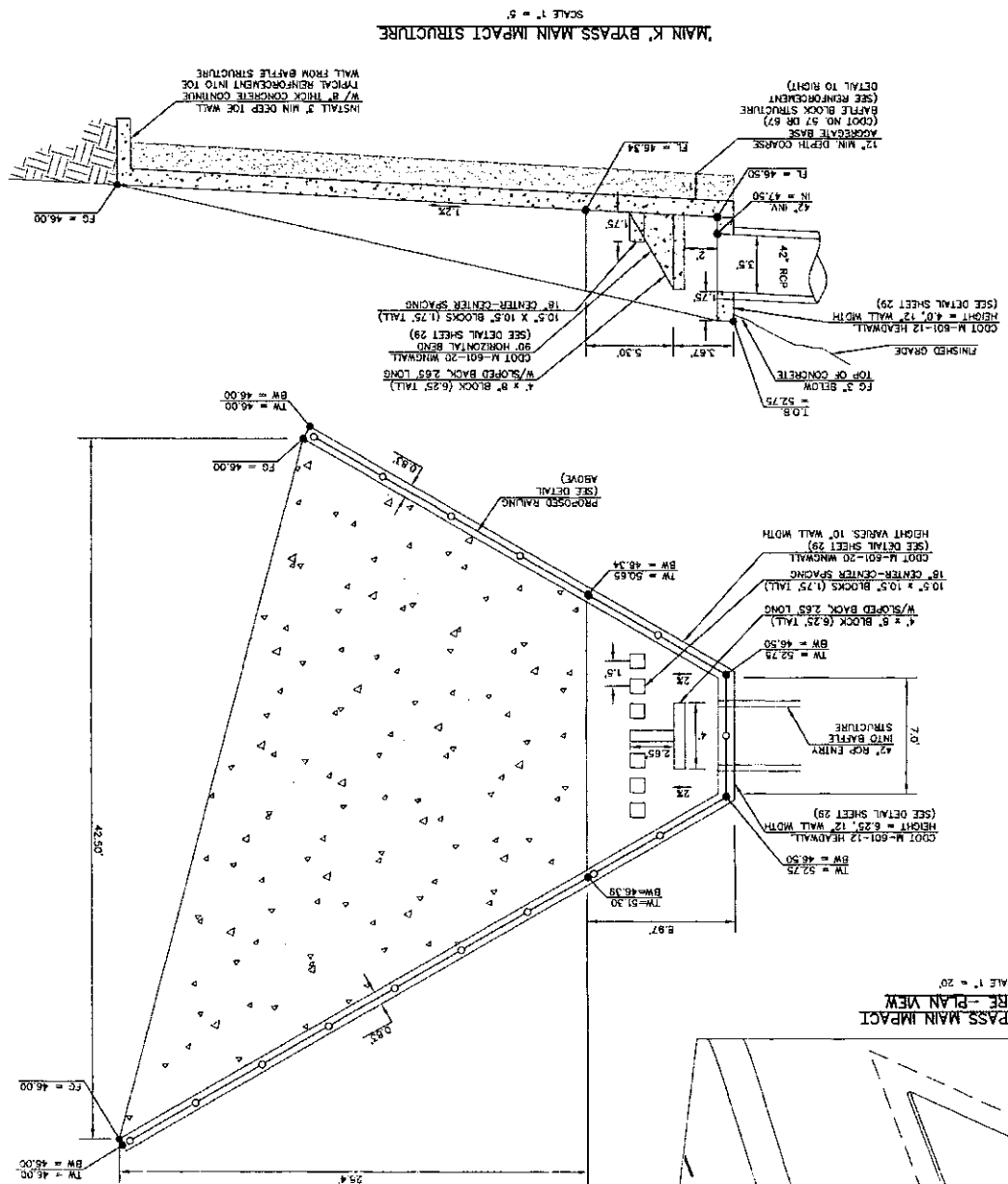
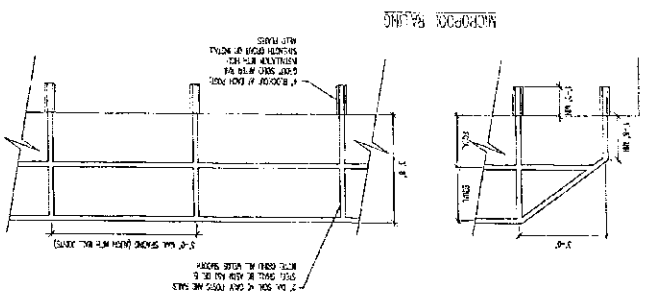
EPC 6/9/2020		JOB NO. 1175.50	
DRAWN BY: BB		SHEET 22 OF 32	
DESIGNED BY: MAL		DATE: 07/14/19	
CHECKED BY: (V) 1" = N/A			
CLASSIC CONSULTING		FOREST LAKES FILING NO. 5	
CONSTRUCTION DRAWINGS		MAIN 'J' IMPACT STRUCTURE W/ REINFORCING	
DATE: 7/21/20		REVIEW:	
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC		PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF	
KYLE E. KUMBELL, COLORADO P.E. #29296		DATE: 7/21/20	
618 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903 (719) 785-0790 (719) 785-0799 (fax)		CLASSIC CONSULTING	

BATTLE REINFORCING
N.T.S.



BYPASS OUTLET

1. WELD PLATES MAY BE SUBSTITUTED FOR PIPE EMBEDMENT.
2. DESIGN CRITERIA SHALL BE IN ACCORDANCE WITH AASHTO STANDARDS.
3. HORIZONTAL DESIGN SHALL BE COMPARABLE WITH THE DESIGN OF THE WINDOWS.
4. RAINING POSTS SHALL BE SET TO NORMAL TO GRADE.
5. PARALLEL TO THE SLOPES OF TOPS OF THE WALLS.
6. ALL RAILS SHALL HAVE EXPANSION JOINTS SPACED AT 40' MAX. JOINT ENDS SHALL BE FREE OF ANY SHARP EDGES OR CORNERS.



NO. REVISION

DATE

PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF

CLASSIC CONSULTING ENGINEERS AND ARCHITECTS, LLC

1919 N. Durango Avenue, Suite 200
Durango, Colorado 81303
(719) 785-0790

DATE

811

CALL UTILITY LOCATORS

48 HOURS BEFORE YOU DIG.

UTILITY NOTIFICATION CENTER OF COLORADO
IT'S THE LAW

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER 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.

DESIGNED BY: MAL

SCALE: (H) 1" = 2'

DATE: 07/14/19

SHEET 25 OF 32

JOB NO.: 1175.50

FOREST LAKES FILING NO. 5

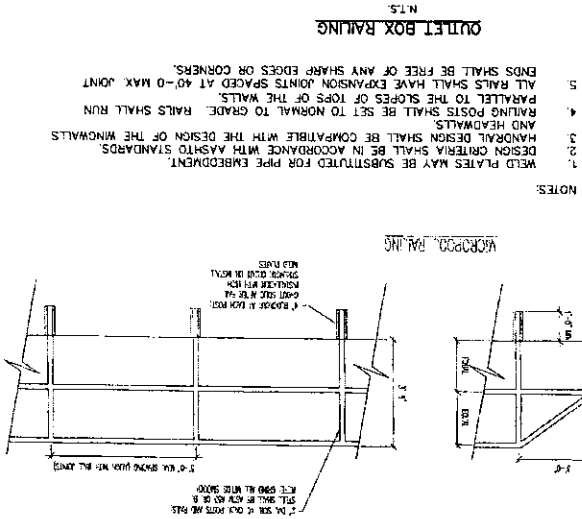
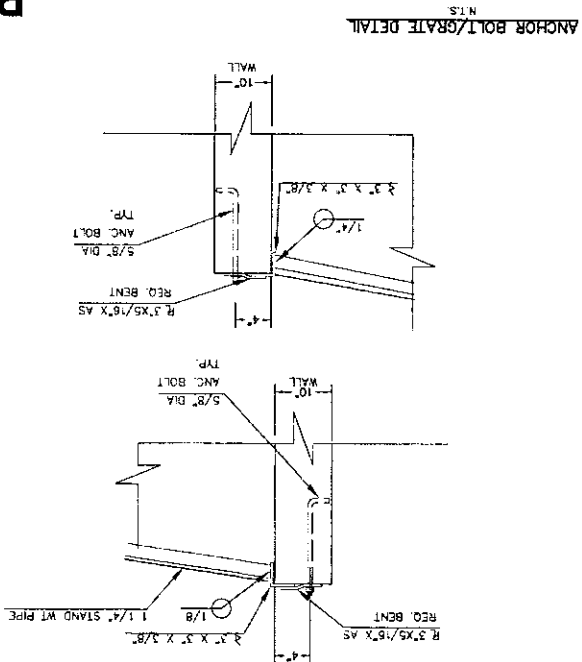
CONSTRUCTION DRAWINGS

POND C

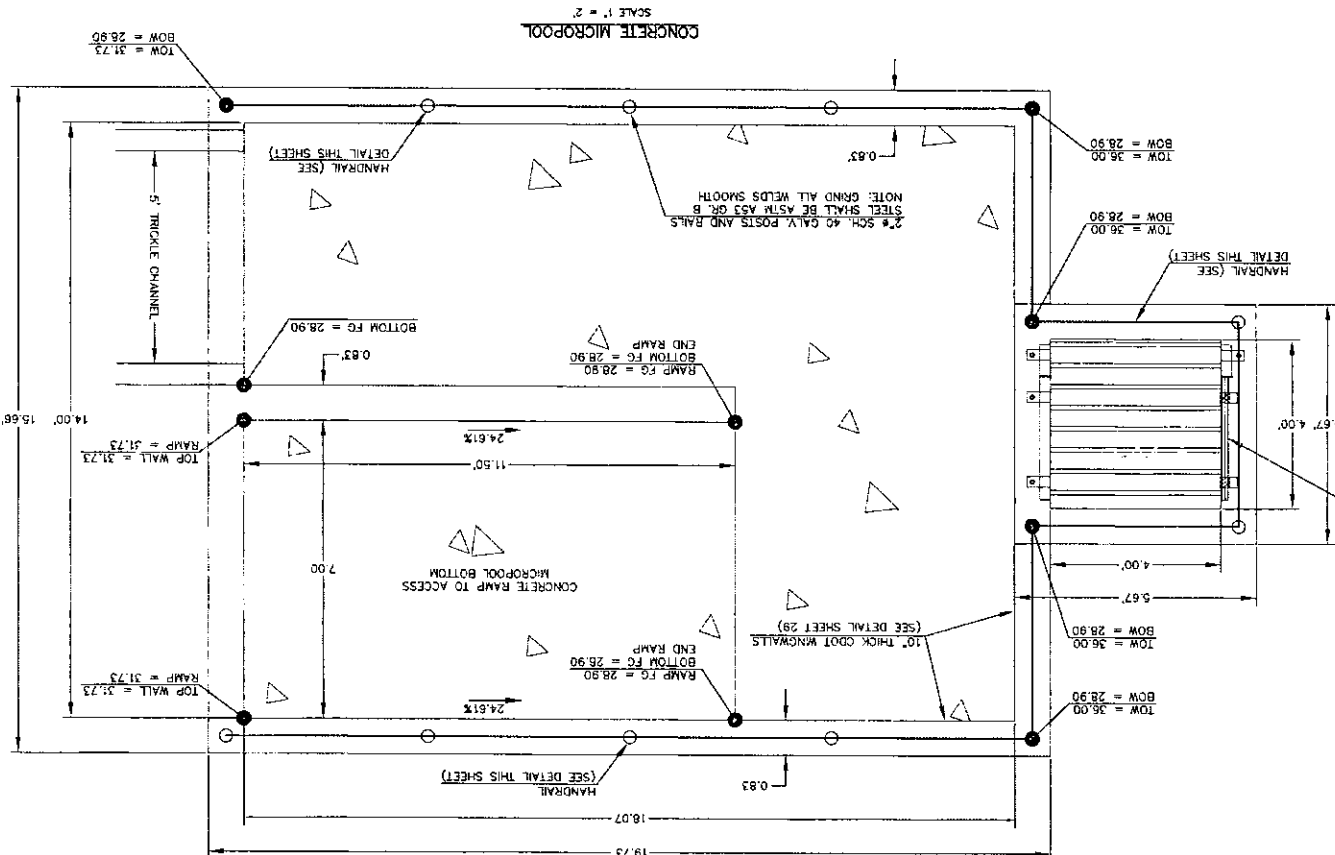
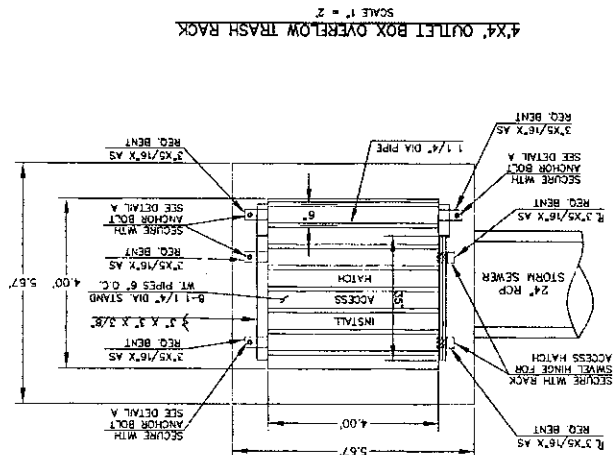
CLASSIC CONSULTING

POND 'C'

PCD FILE # SF1915



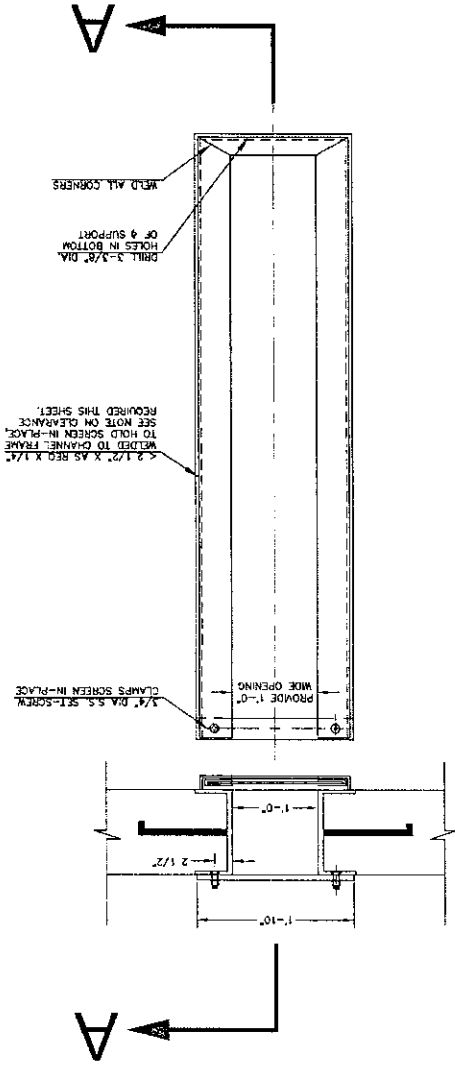
- STEEL FABRICATION NOTES:
- FABRICATED STEEL STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH AISC AND AWS SPECIFICATIONS.
 - THE OUTLET STRUCTURE BARGE IS DESIGNED FOR A VERTICAL LOAD OF 300 LBS./SQ. FT.
 - ALL STRUCTURAL STEEL SHAPES TO INCLUDE ANGLE, PLATE AND BAR SHALL MEET ASTM A36 SPECIFICATIONS. FY = 36 KSI MINIMUM. STRUCTURAL TUBING SHALL MEET ASTM A400 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 BURNS AND SHARP EDGES.
 - PAINT WITH ONE SHOP COAT OF ZINC RICH PRIMER AND TWO COATS OF ALUMINUM PAINT.
- 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. 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 DOWNSTREAK OF THE RACK.



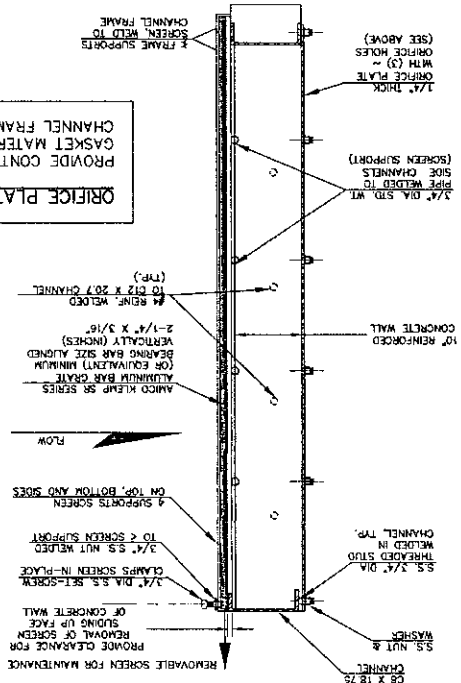
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SCREEN SUPPORT



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

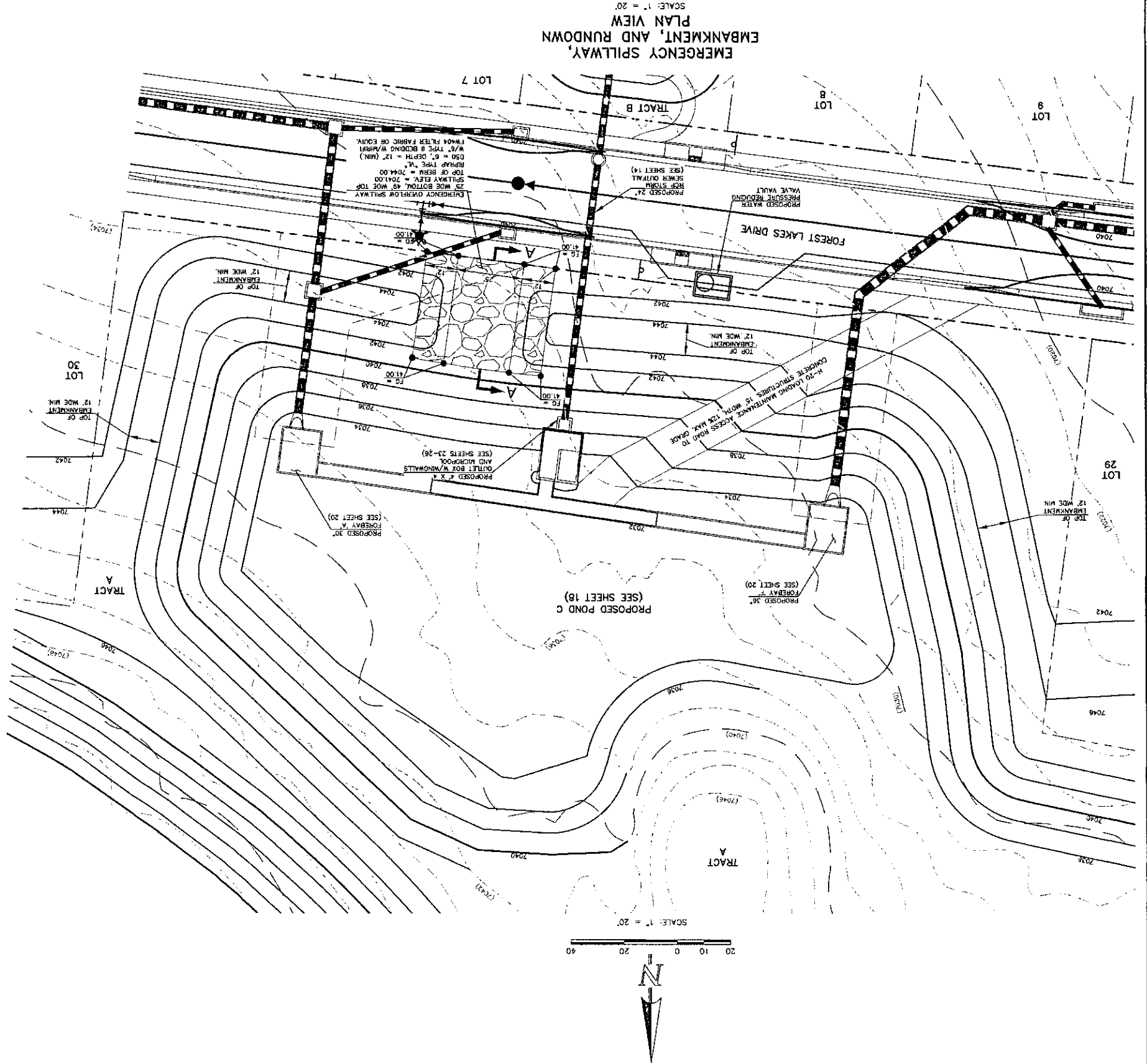
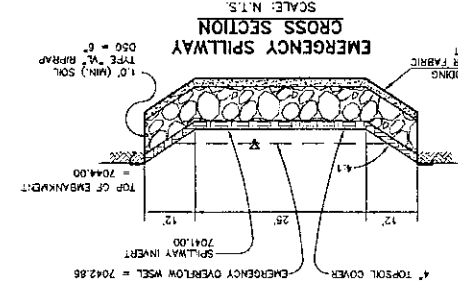
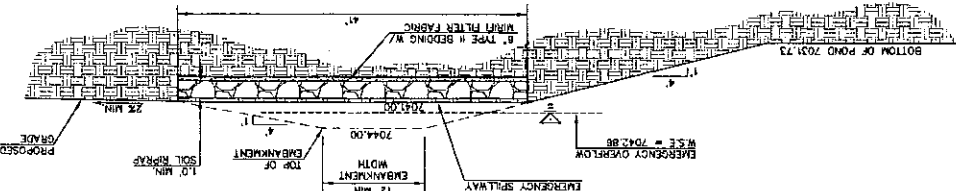


POND 'C'

EPC 6/9/2020		CHECKED BY (V) 1" = N/A		JOB NO. 1175.50	
DESIGNED BY BB (H) 1" = VARIES		SHEET 28 OF 32		DATE 07/14/19	
POND SPILLWAY DETAILS		CONSTRUCTION DRAWINGS		FOREST LAKES FILING NO. 5	
CLASSIC CONSULTING		CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC		REVIEW: DATE	
618 N. Colorado Avenue, Suite 200 Colorado Springs, Colorado 80903 (719) 785-0790		STATE OF COLORADO PLATE NO. 29794 DATE 07/14/19		NO. REVISION	
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 CONSTRUCTION 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.	

POND 'C'

EMERGENCY SPILLWAY
PROFILE AT EMBANKMENT
SECTION A-A



48 HOURS BEFORE YOU DIG.
CALL UTILITY LOCATORS.
811
UTILITY NOTIFICATION CENTER OF COLORADO
IT'S THE LAW.
THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO. REVISION

DATE

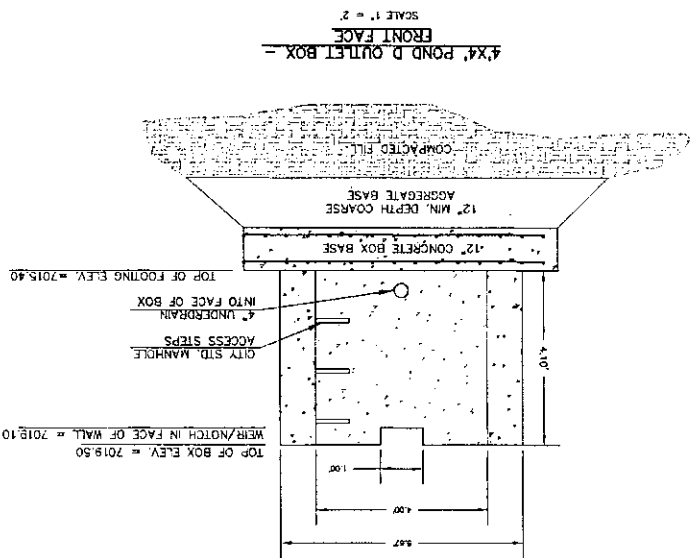
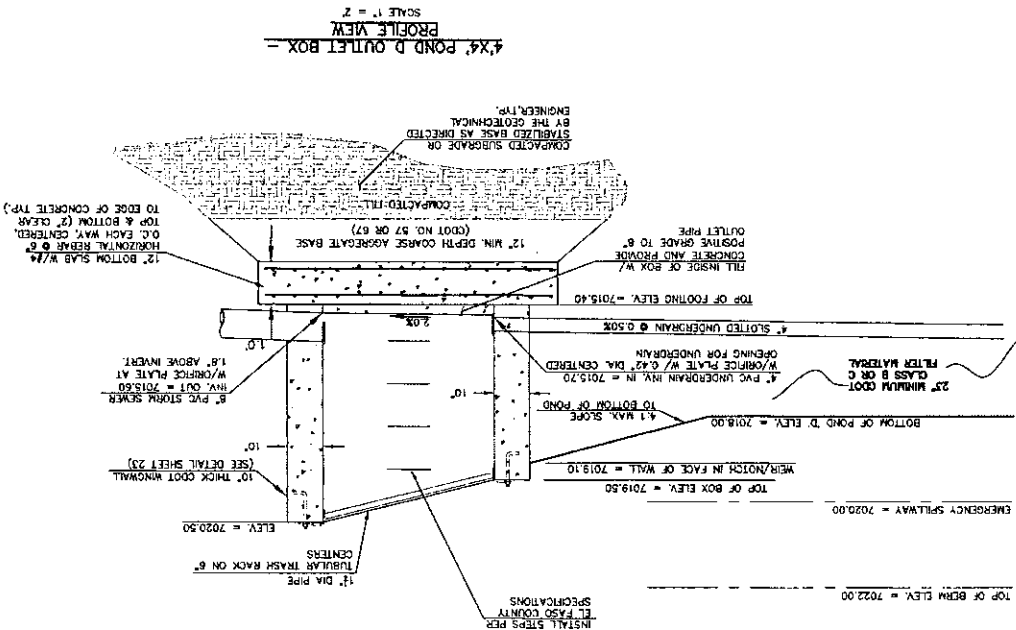
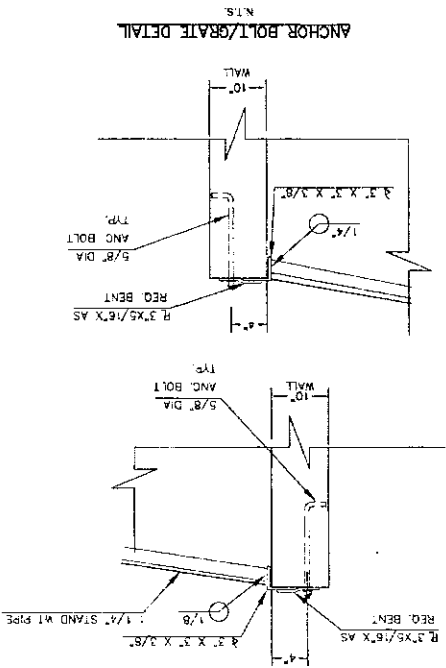
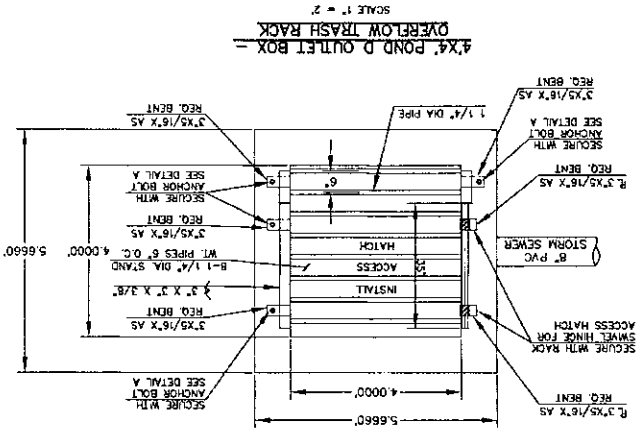
REVIEW:
PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF
CLASSIC CONSULTING ENGINEERS AND SURVEYORS, P.C.
618 N. Colorado Avenue, Suite 200
Colorado Springs, Colorado 80905
(719) 785-0799
CLASSIC CONSULTING

DESIGNED BY: MAL
SCALE: C7/1/4/19
DATE: 07/14/19
DRAWN BY: SB
SCALE: 1"= 2'
SHEET 29 OF 32
JOB NO. 1179.50

FOREST LAKES FILING NO. 5
CONSTRUCTION DRAWINGS
POND 'D'
POND OUTLET BOX - PROFILE VIEW

EPC 6/9/2020

POND 'D'



- INSTALL STEPS PER EL PASO COUNTY SPECS
1. PROVIDE GASKET MATERIAL BETWEEN THE GROUND PLATE AND CONCRETE
 2. WELD-SCREEN TRASH RACKS SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
 3. BARN GATE TRASH RACKS SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
 4. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF TRASH RACKS.
 5. ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED OR LOCKABLE OR BOLTED ACCESS PANELS.
 6. TRASH RACKS SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. TRASH RACKS SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
 7. TRASH RACKS SHALL BE DESIGNED SUCH THAT THE DIAMETER OF THE OUTLET PIPE OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.
 8. STRUCTURAL DESIGN OF THE TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

DESIGNED BY	SCALE	DATE	11/25/50
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CHECKED BY	N/A	11/25/50	
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CLASSIC CONSULTING ENGINEERS AND SURVEYORS			
FILE IN CAMPBELL, COLORADO P.E. 25794			
119 E. Colorado Avenue, Suite 200			
Colorado Springs, Colorado 80903			
(719) 525-0790			
(719) 525-0792 (fax)			
CLASSIC CONSULTING			
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