

# RETREAT AT TIMBERRIDGE FILING NO. 2

## COUNTY OF EL PASO, STATE OF COLORADO

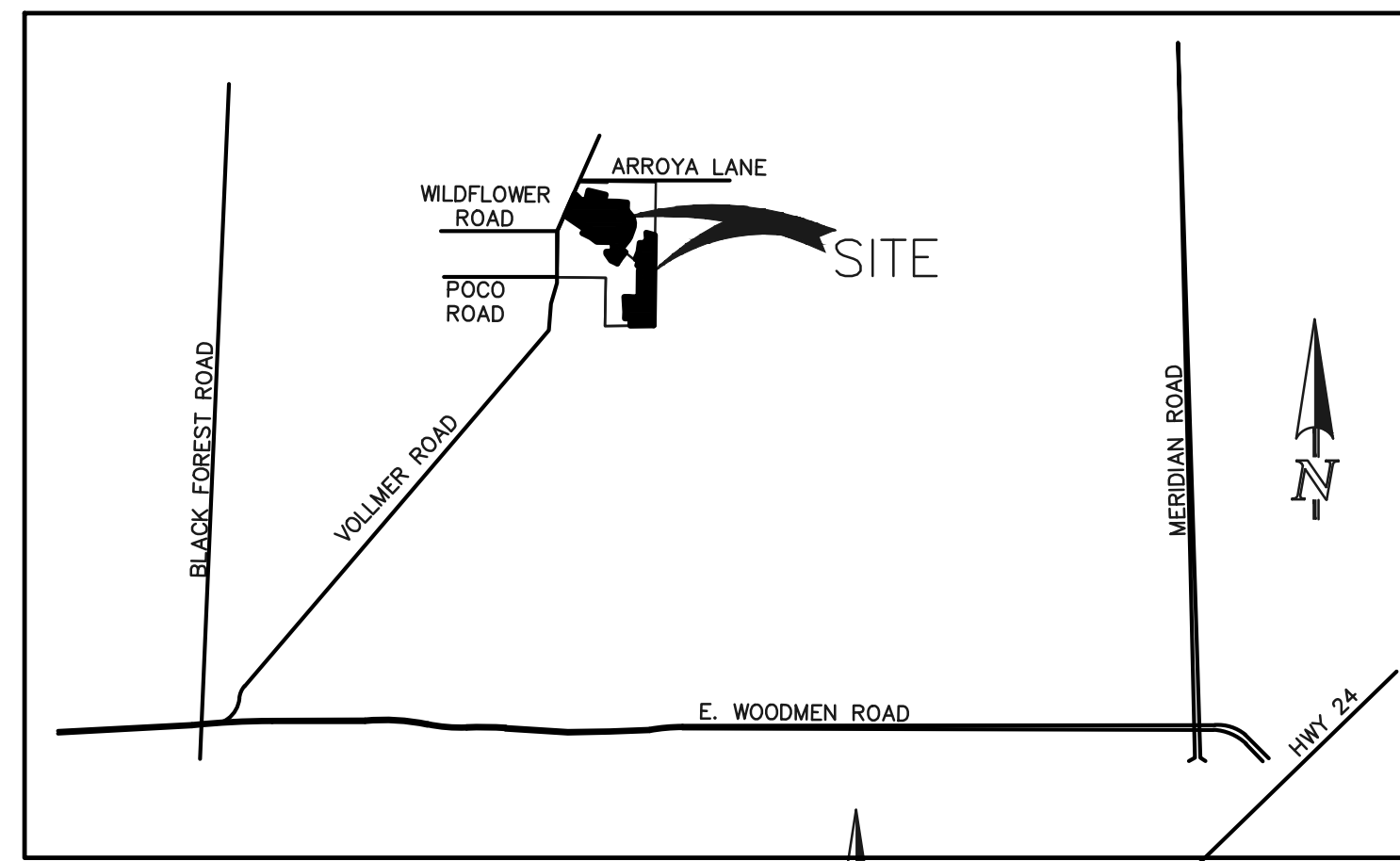
# CONSTRUCTION DRAWINGS

MARCH 2021

EPC STORMWATER REVIEW COMMENTS IN ORANGE BOXES WITH BLACK TEXT

### GENERAL CONSTRUCTION NOTES:

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



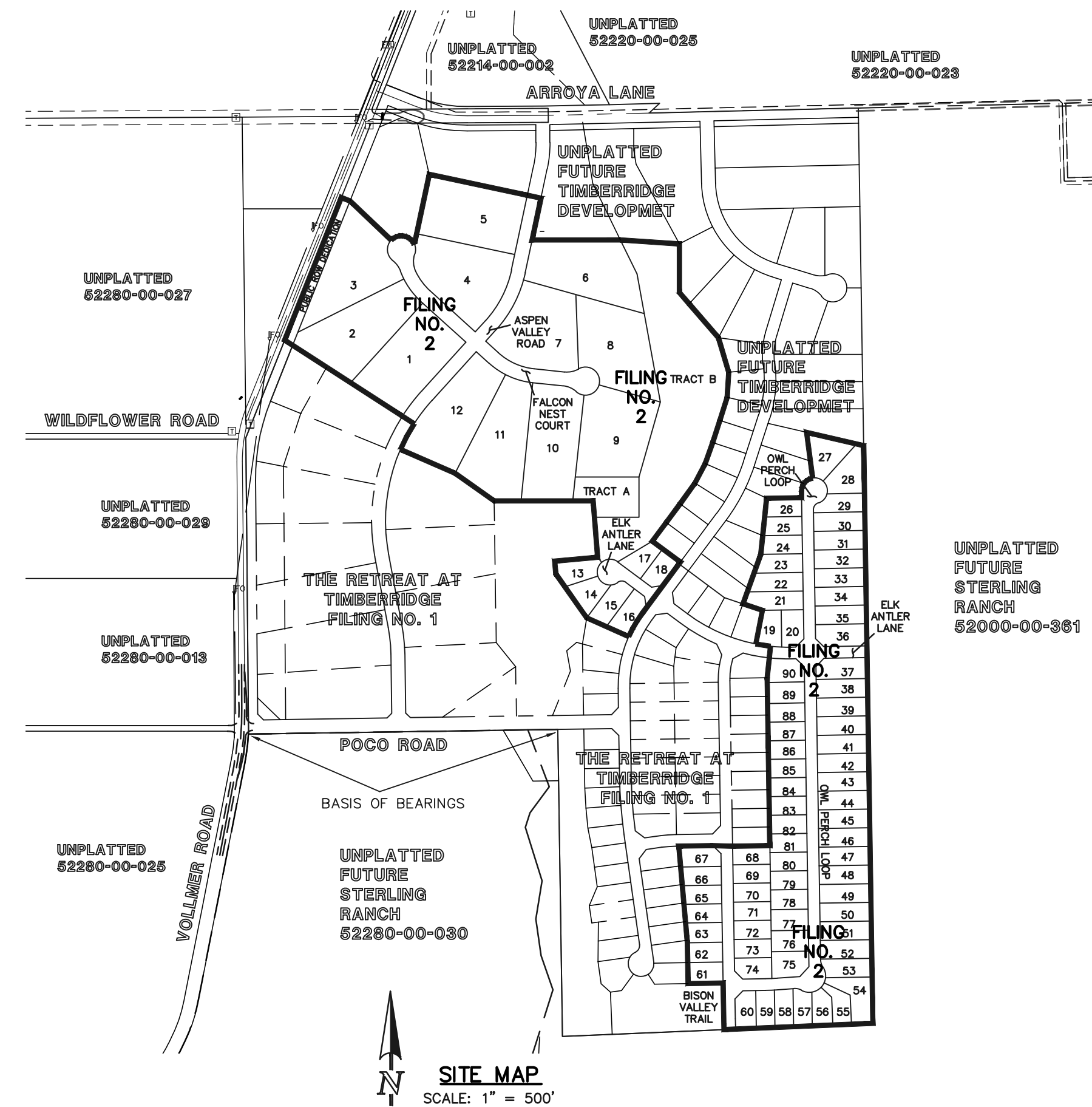
VICINITY MAP  
N.T.S.

### 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 OR CLASS IV WITH WATER TIGHT JOINTS WHERE CALLED OUT, 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 "T" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS".
- ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
- ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
- ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
- ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALK LINES SHALL BE 12" WIDE AND 8" LONG PER CDOT S-627-1.
- ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
- THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
- THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.



SITE MAP  
SCALE: 1" = 500'

### BASIS OF BEARINGS:

THE SOUTH LINE OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, BEING MONUMENTED AT THE WEST END WHICH IS THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE NORTHEAST QUARTER OF SAID SECTION 28, BY A 3-1/4" ALUMINUM SURVEYORS CAP STAMPED "ESI PLS 10376, 2006" AND AT THE EAST END, WHICH IS A 30" WITNESS CORNER TO THE EAST OF THE EAST QUARTER CORNER OF SAID SECTION 28, BY A 3-1/4" ALUMINUM SURVEYORS CAP STAMPED "ESI 10376, 2006", IS ASSUMED TO BEAR S89°08'28"W A DISTANCE OF 1326.68 FEET.

### BENCHMARKS:

BENCHMARK #1: A 3.25 ALUMINUM SURVEYORS CAP STAMPED "WC 30/2006 PLS 10376" LOCATED 30' EAST OF THE EAST QUARTER CORNER OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN. ELEVATION: = 7168.20

BENCH MARK #2: A 3.25 ALUMINUM SURVEYORS CAP STAMPED "2006 PLS 10376" LOCATED AT THE SOUTHEAST CORNER OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN. ELEVATION: = 7141.36

### AGENCIES:

- OWNER/DEVELOPER: TIMBERRIDGE DEVELOPMENT GROUP, LLC  
2138 FLYING HORSE CLUB DR  
COLORADO SPRINGS, CO 80921  
MR. LOREN J. MORELAND, (719) 592-9333
- CIVIL ENGINEER: CLASSIC CONSULTING ENGINEERS & SURVEYORS  
619 N. CASCADE AVENUE, SUITE 200  
COLORADO SPRINGS, COLORADO 80903  
MR. MARC A. WHORTON, P.E. (719) 785-2802
- COUNTY ENGINEERING: EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT  
2880 INTERNATIONAL CIRCLE, SUITE 110  
COLORADO SPRINGS, COLORADO 80910  
MR. JEFF RICE (719) 520-7877
- GAS COMPANY: BLACKHILLS ENERGY  
37 WIDEFIELD BOULEVARD  
WIDEFIELD, COLORADO 80911  
MR. GEORGE M. PETERSON, (719) 392-3491
- ELECTRIC COMPANY: MOUNTAIN VIEW ELECTRIC  
P.O. BOX 1600  
LIMON, COLORADO 80828  
MR. LES ULFERS, (719) 495-2283
- FIRE DISTRICT: BLACK FOREST FIRE PROTECTION DISTRICT  
11445 TEACHOUT ROAD  
COLORADO SPRINGS, CO 80908  
CHIEF BRYAN JACK, (719) 495-4300
- TELEPHONE COMPANY: CENTURY LINK  
(LOCATORS) 811  
AT & T  
(LOCATORS) 811

### SHEET INDEX

SHEET 1 OF 24	TITLE SHEET
SHEET 2 OF 24	STREET SECTIONS / EROSION CONTROL NOTES
SHEET 3-5 OF 24	OVERLOT GRADING & EROSION CONTROL PLAN
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SHEET 7 OF 24	FALCON NEST COURT PLAN AND PROFILE
SHEET 8 OF 24	BISON VALLEY TRAIL PLAN AND PROFILE
SHEET 9 OF 24	ELK ANTLER LANE PLAN AND PROFILE
SHEET 10 OF 24	OWL PERCH LOOP PLAN AND PROFILE
SHEET 11 OF 24	OWL PERCH LOOP PLAN AND PROFILE
SHEET 12 OF 24	PEDESTRIAN RAMP DETAILS
SHEET 13 OF 24	STREET LIGHT POLE LOCATION PLAN
SHEET 14-18 OF 24	STORM SEWER PLAN AND PROFILE
SHEET 19-20 OF 24	CHANNEL PLANS
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SHEET 23-24 OF 24	DETAIL SHEETS

(28 total sheets)

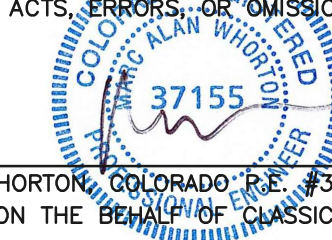
AS-BUILT  
11-30-2023

Include Project # and additional PE stamp and signature of Engineer of Record per ECM Section 5.10.6.C on each 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, ERRORS, OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.



3/23/2022

MARC A. WHORTON, COLORADO P.E. #37155  
FOR AND ON THE BEHALF OF CLASSIC CONSULTING ENGINEERS & SURVEYORS

DATE

#### OWNER/DEVELOPER'S STATEMENT:

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

*Loren J. Moreland*  
LOREN J. MORELAND  
DATE 3/23/2022

#### 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.

#### \* APPROVED

Engineering Department  
0624202209:49 PM  
3/23/2022  
EPC Planning & Community Development Department  
COUNTY ENGINEER / ECM ADMINISTRATOR

\* No construction in or affecting the Sand Creek channel or offsite properties shall begin until the necessary permits, plans, and easements have been reviewed and accepted by PCD.

PCD No. SF-21-021

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS <b>811</b> 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 1 REVISED PER COUNTY COMMENTS	DATE 8/16/21	REVIEW: PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
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3/23/2022	DATE
MARC A. WHORTON, COLORADO P.E. #37155	DATE

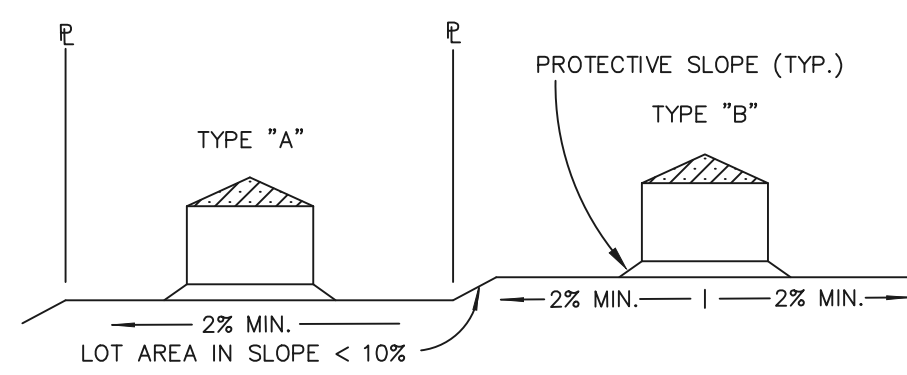
619 N. Cascade Avenue, Suite 200  
Colorado Springs, Colorado 80903  
(719) 785-0790  
(719) 785-0799 (Fax)

RETREAT AT TIMBERRIDGE FILING NO. 2 CONSTRUCTION DRAWINGS TITLE SHEET			
DESIGNED BY	PRA	SCALE	DATE 02-25-21
DRAWN BY	PRA	(H) 1" = N/A	SHEET 1 OF 24
CHECKED BY		(V) 1" = N/A	JOB NO. 1185.20

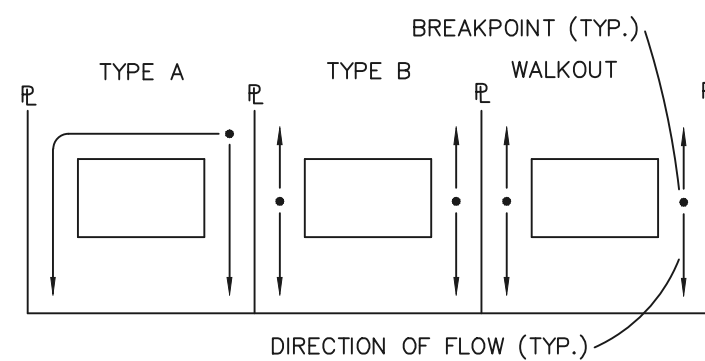


**STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS:**

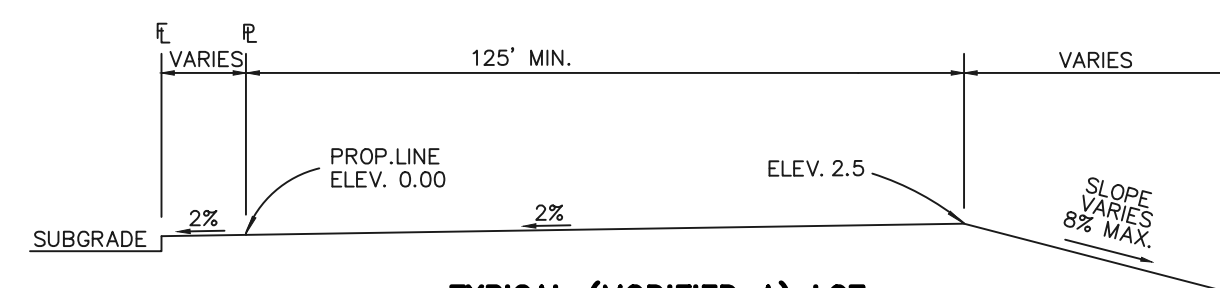
- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- NOTWITHSTANDING ANYTHING 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 TO 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. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR AND 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 PRE-CONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT MAY CONTRIBUTE POLLUTANTS TO STORMWATER. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES 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 IS 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 PLAN 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 DEFINED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT AFFECT THE HYDROLOGY OR HYDRAULICS OF A 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 LOOSENED 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 RUNOFF TO 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: 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 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 OFFSITE 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 ONSITE UNLESS PERMISSION FOR THE USE OF A SPECIFIC 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 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 FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE COLORADO WATER QUALITY CONTROL ACT (TITLE 25, ARTICLE 8, CRS), AND THE CLEAN WATER ACT (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE EGM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORTS FOR THIS SITE HAVE BEEN PREPARED BY ENTECH ENGINEERING, INC. TITLED "SOIL GEOLOGY, GEOLOGIC HAZARD AND WASTEWATER STUDY - THE RETREAT AT TIMBER RIDGE, VOLLMER ROAD AND ARROYA LANE," DATED APRIL 12, 2017, REVISED DECEMBER 1, 2017 AND "SUBSURFACE SOIL INVESTIGATION RETREAT AT TIMBERRIDGE, FILING NO. 1 POCO ROAD SAND CREEK CROSSING, DROP STRUCTURES AND DETENTION PONDS" DATED AUGUST 8, 2019. THESE REPORTS 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



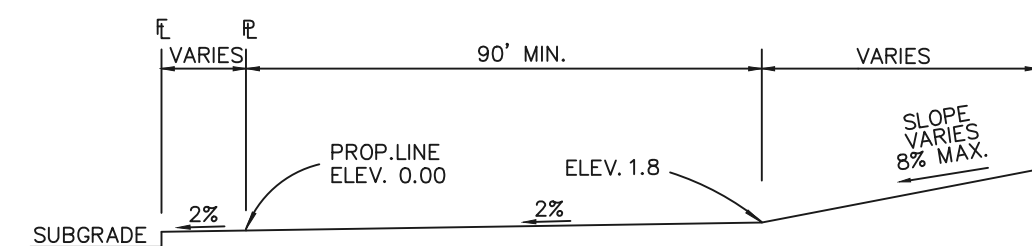
TYPICAL LOT SECTION DETAIL  
N.T.S.



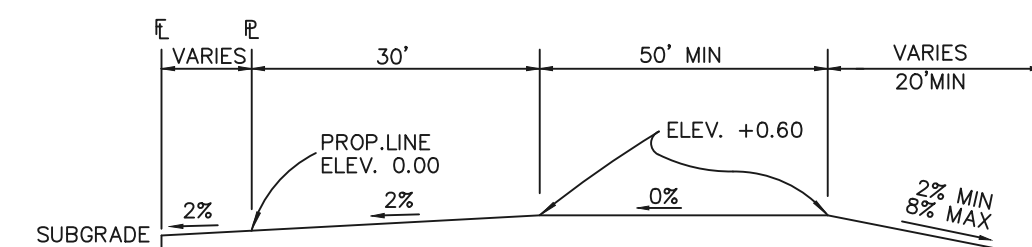
LOT DRAINAGE TYPES  
N.T.S.



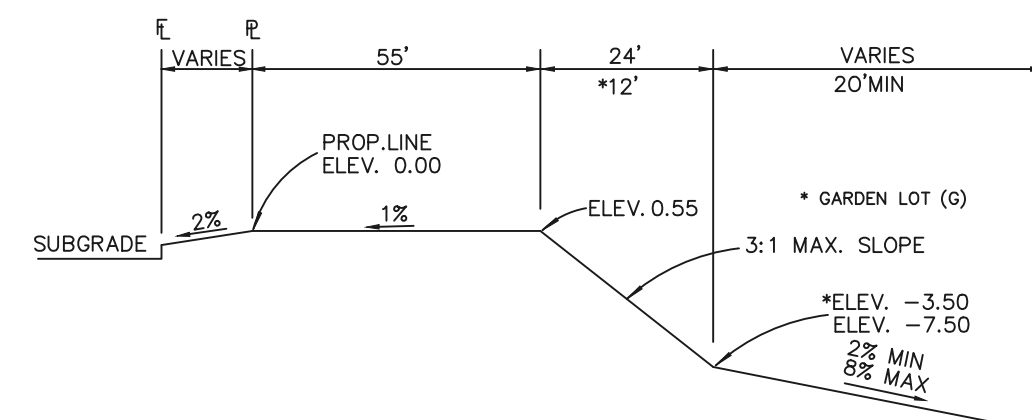
TYPICAL (MODIFIED A) LOT  
N.T.S.



TYPICAL (A) LOT  
N.T.S.



TYPICAL (B) LOT  
N.T.S.



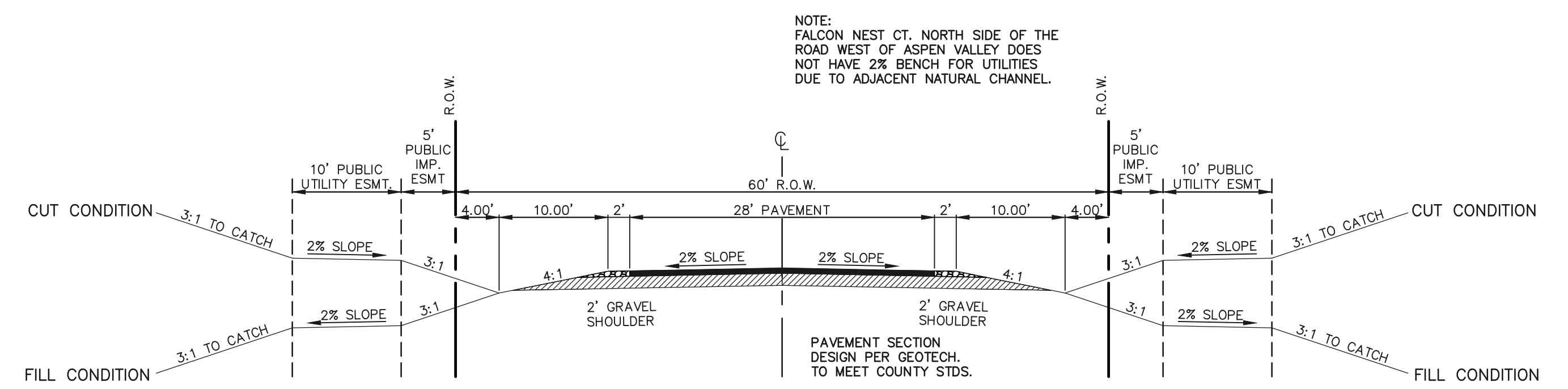
TYPICAL WALKOUT LOT (W/O) OR GARDEN (G)  
N.T.S.

NOTES:

BASED ON GREATER TYPICAL DEPTH OF PROPOSED LOTS, ALL LOT TEMPLATES ADJUSTED AND ADDITIONAL 5'.

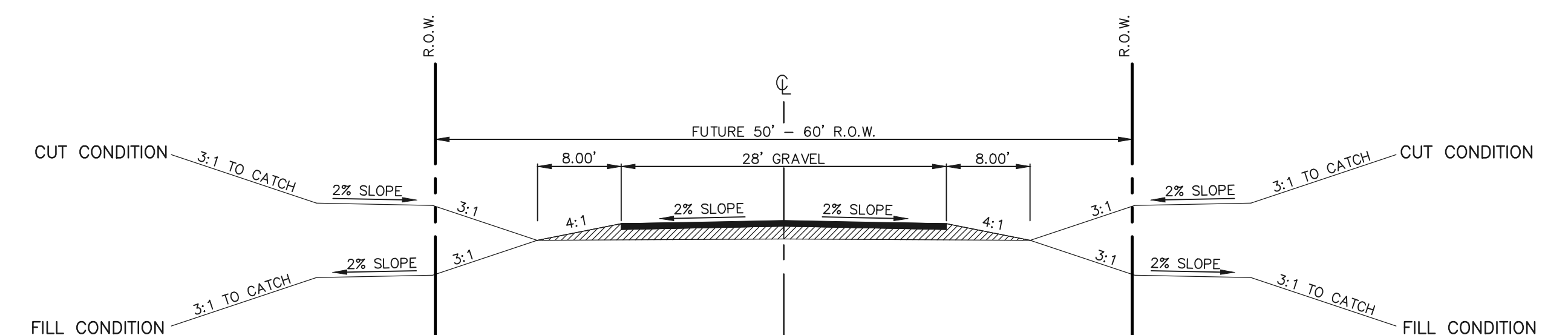
"T" LOTS OR "TRANSITION" LOTS OCCUR IN PLACES WHERE BOTH PROPERTY LINES CANNOT BE GRADED AS THE TYPICAL STANDARD LOT TEMPLATES SHOWN. THESE LOTS WILL STILL BE GRADED TO CREATE POSITIVE DRAINAGE AWAY FROM THE STRUCTURE.

SIDE LOT SWALES ARE REQUIRED ON THE DOWNHILL LOTS, EITHER BY BUILDER OR GRADING CONTRACTOR.



60' R.O.W. TYPICAL RURAL LOCAL CROSS SECTION  
SCALE: 1" = 10'

SIGN PLACEMENT PER 2009 MUTCD FIG. 2A-2 A AND LOCATED 8' BEHIND GRAVEL SHOULDER

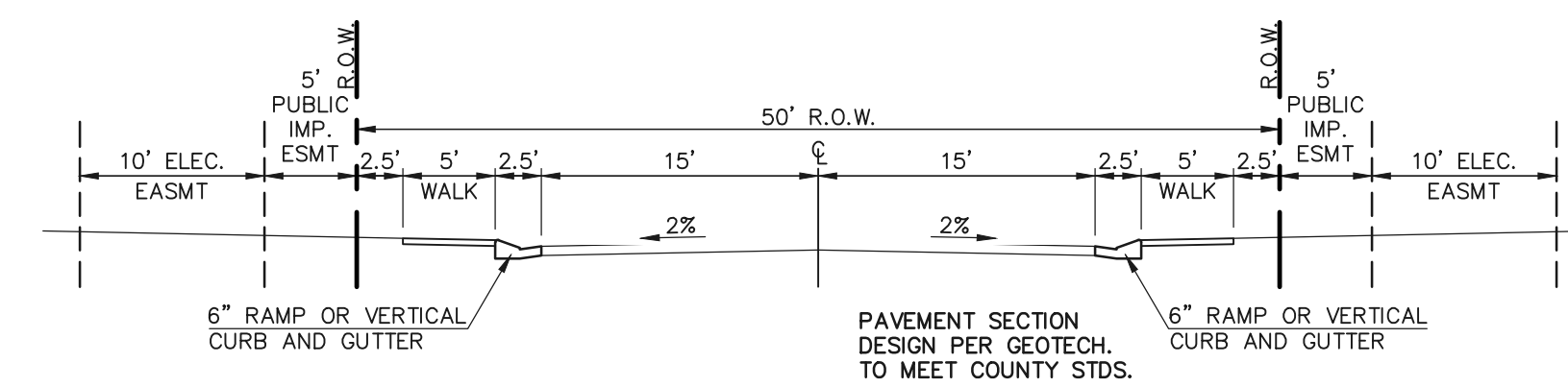


FUTURE R.O.W. TYPICAL SECONDARY ACCESS ROAD  
SCALE: 1" = 10'

SECONDARY EMERGENCY ACCESS UP TO ARROYA LANE

SIGN PLACEMENT PER 2009 MUTCD FIG. 2A-2 A AND LOCATED 8' BEHIND GRAVEL SHOULDER

NO ADDITIONAL IMPROVEMENTS REQUIRED AT THIS TIME ON THE EXISTING ARROYA LANE AS IT CURRENTLY FUNCTIONS AS A VIABLE EMERGENCY ACCESS DRIVE PER BLACK FOREST FIRE DISTRICT.  
FUTURE PLANTING ADJACENT TO ARROYA LANE WILL REQUIRE ADDITIONAL IMPROVEMENTS TO THIS ROADWAY.



50' R.O.W. TYPICAL URBAN LOCAL CROSS SECTION  
SCALE: 1" = 10'

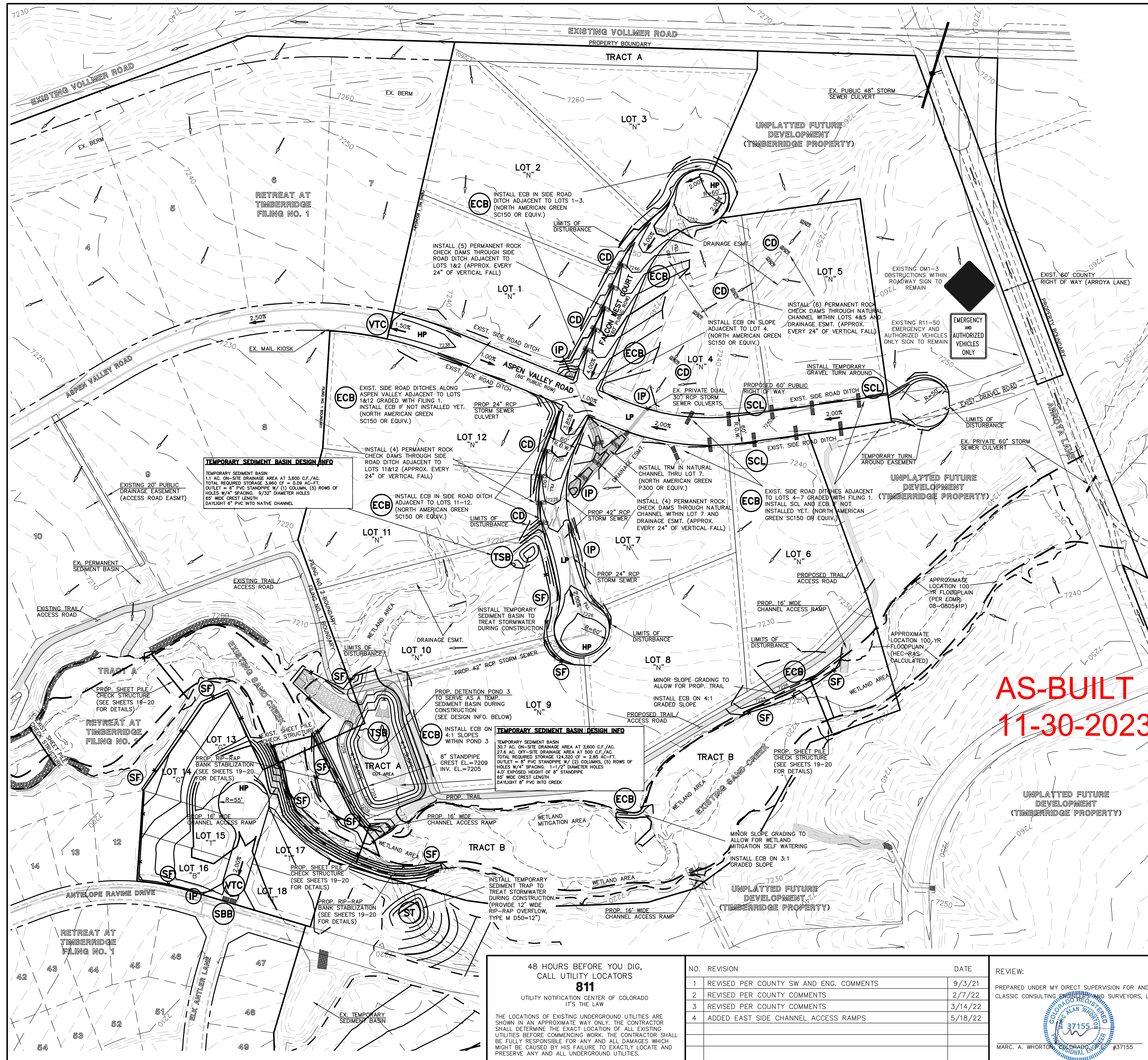
-BISON VALLEY TRAIL, ELK ANTLER LANE AND OWL PERCH LOOP

AS-BUILT  
11-30-2023

EPC 6/24/22

<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS <b>811</b> 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>1 REVISED PER COUNTY COMMENTS</p>	<p>DATE</p> <p>2/7/22</p>	<p>REVIEW:</p> <p>PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <p>MARC A. WHORTON REGISTERED PROFESSIONAL ENGINEER #37155</p>	<p>3/23/2022</p> <p>DATE</p>	<p>RETREAT AT TIMBERRIDGE FILING NO. 2 CONSTRUCTION DRAWINGS STREET SECTIONS / EROSION CONTROL NOTES</p> <p>DESIGNED BY PRA SCALE DATE 02-25-21 DRAWN BY PRA (H) 1"= N/A SHEET 2 OF 24 CHECKED BY (V) 1"= N/A JOB NO. 1185.20</p>	<p>CLASSIC CONSULTING</p>
	<p>619 N. Cascade Avenue, Suite 200 (719) 785-0790 Colorado Springs, Colorado 80903 (719) 785-0799(Fax)</p>					





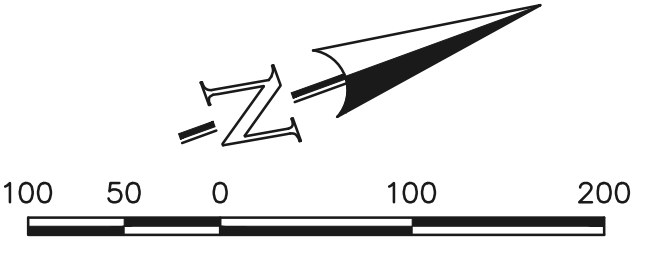
**AS-BUILT**  
**11-30-2023**

**LEGEND**

- LIMITS OF CONST./DISTURBANCE
- WETLAND DELINEATION LINE
- PROPOSED CONTOUR-10
- PROPOSED CONTOUR-2
- EXISTING CONTOUR-10
- EXISTING CONTOUR-2
- CUT/FILL LINE
- SILT FENCE
- SILT FENCE
- ROCK CHECK DAM
- VEHICLE TRACKING CONTROL
- SEDIMENT CONTROL LOG
- INLET PROTECTION
- SEDIMENT TRAP
- EROSION CONTROL BLANKET
- TEMPORARY SEDIMENT BASIN
- EXIST. DIRECTION OF FLOW
- DIRECTION OF FLOW
- HIGH POINT
- LOW POINT
- MODIFIED A LOT (MODIFIED A)
- A LOT (A)
- B LOT (B)
- WALKOUT LOT (W/O)
- NATURAL LOT (N)
- TRANSITION LOT (T)
- GARDEN LOT (G)
- EROSION CONTROL BLANKET (NORTH AMERICAN GREEN - SC150 OR EQUIVALENT) TO BE INSTALLED ON ALL 3:1 SLOPES OR GREATER
- SEEDING/MULCHING NOTE: SEEDING AND MULCHING SHALL BE INSTALLED INSIDE ENTIRE LIMITS OF GRADING EXCLUDING ROADWAY SURFACES, SIDEWALK AREAS AND RIP-RAP AREAS.

**BMP PHASING**

- (INSTALLED PRIOR TO INITIAL PHASE WITH CONTINUED MAINTENANCE DURING INTERIM AND VERTICAL PHASES)
- (INSTALLED PRIOR TO INITIAL PHASE WITH CONTINUED MAINTENANCE THROUGH INTERIM AND VERTICAL PHASES)
- (INSTALLED DURING INITIAL PHASE WITH CONTINUED MAINTENANCE THROUGH INTERIM AND VERTICAL PHASES)
- (INSTALLED DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)
- (INSTALLED DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)
- (INSTALLED DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)
- (INSTALLED DURING INITIAL PHASE WITH CONTINUED MAINTENANCE THROUGH INTERIM PHASE. CONVERSION TO PERMANENT EDB DURING VERTICAL PHASE)
- (INSTALLED DURING INITIAL PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE.)



SCALE: 1" = 100'  
EPC 6/24/22

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

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NO.	REVISION	DATE
1	REVISED PER COUNTY SW AND ENG. COMMENTS	9/3/21
2	REVISED PER COUNTY COMMENTS	2/7/22
3	REVISED PER COUNTY COMMENTS	3/14/22
4	ADDED EAST SIDE CHANNEL ACCESS RAMPS	5/18/22

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

MARC A. WHORTON, COLORADO REGISTERED PROFESSIONAL ENGINEER #37155

5/19/2022



**RETRAIT AT TIMBERIDGE FILING NO. 2**  
CONSTRUCTION PLANS  
GRADING & EROSION CONTROL PLAN

DESIGNED BY: PRA SCALE: DATE: 02-25-21  
DRAWN BY: PRA (H) 1" = 100' SHEET 3 OF 24  
CHECKED BY: (V) 1" = N/A JOB NO. 1185.20

N:\118520\DRAWINGS\CONSTRUCTION\03-118520-GP-02.dwg, 5/19/2022, 8:02:51 AM, 1:1

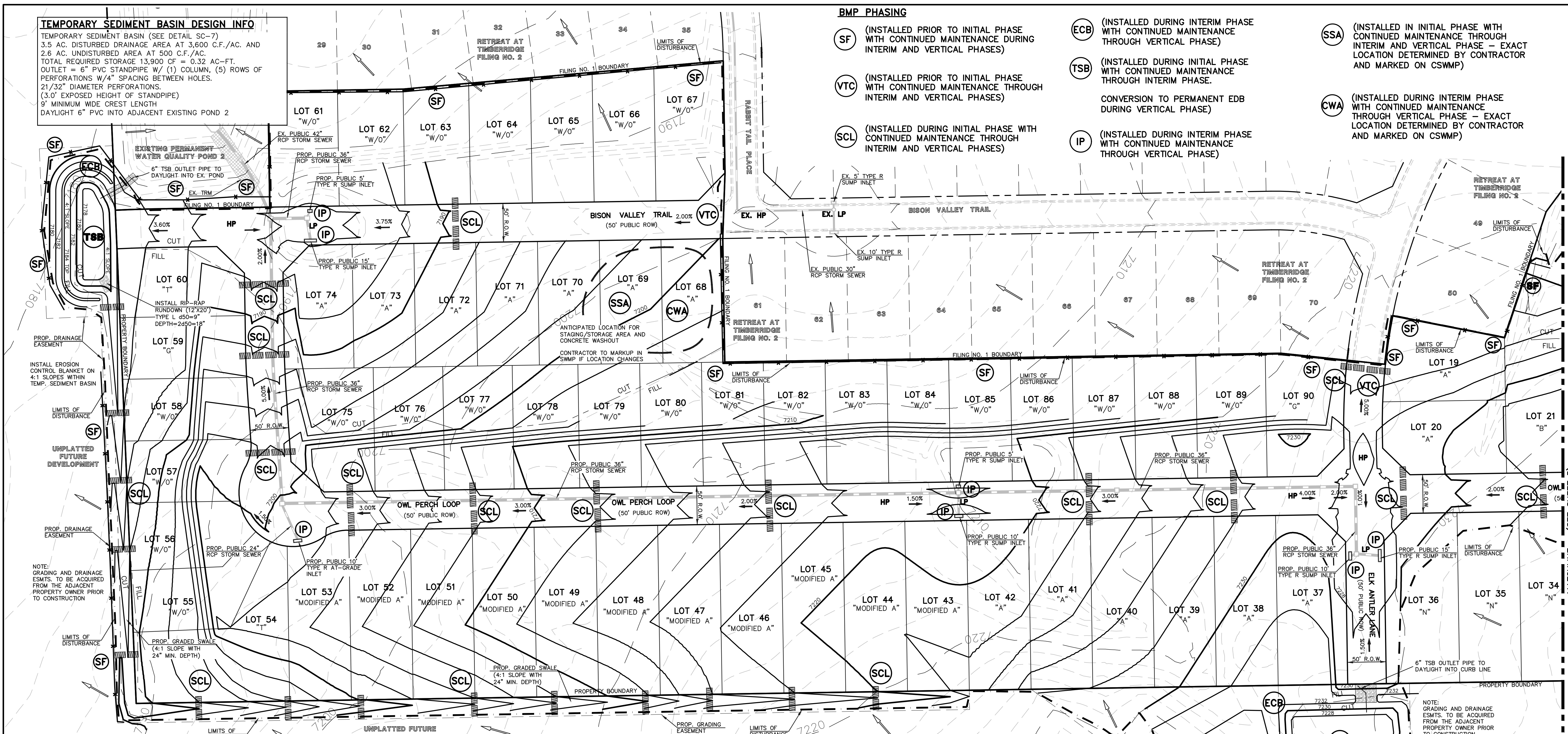


**TEMPORARY SEDIMENT BASIN DESIGN INFO**

TEMPORARY SEDIMENT BASIN (SEE DETAIL SC-7)  
 3.5 AC. DISTURBED DRAINAGE AREA AT 3,600 C.F./AC. AND  
 2.6 AC. UNDISTURBED AREA AT 500 C.F./AC.  
 TOTAL REQUIRED STORAGE 13,900 CF = 0.32 AC-F.T.  
 OUTLET = 6" PVC STANDPIPE W/ (1) COLUMN, (5) ROWS OF  
 PERFORATIONS W/4" SPACING BETWEEN HOLES.  
 21/32" DIAMETER PERFORATIONS.  
 (3.0' EXPOSED HEIGHT OF STANDPIPE)  
 9" MINIMUM WIDE CREST LENGTH  
 DAYLIGHT 6" PVC INTO ADJACENT EXISTING POND 2

**BMP PHASING**

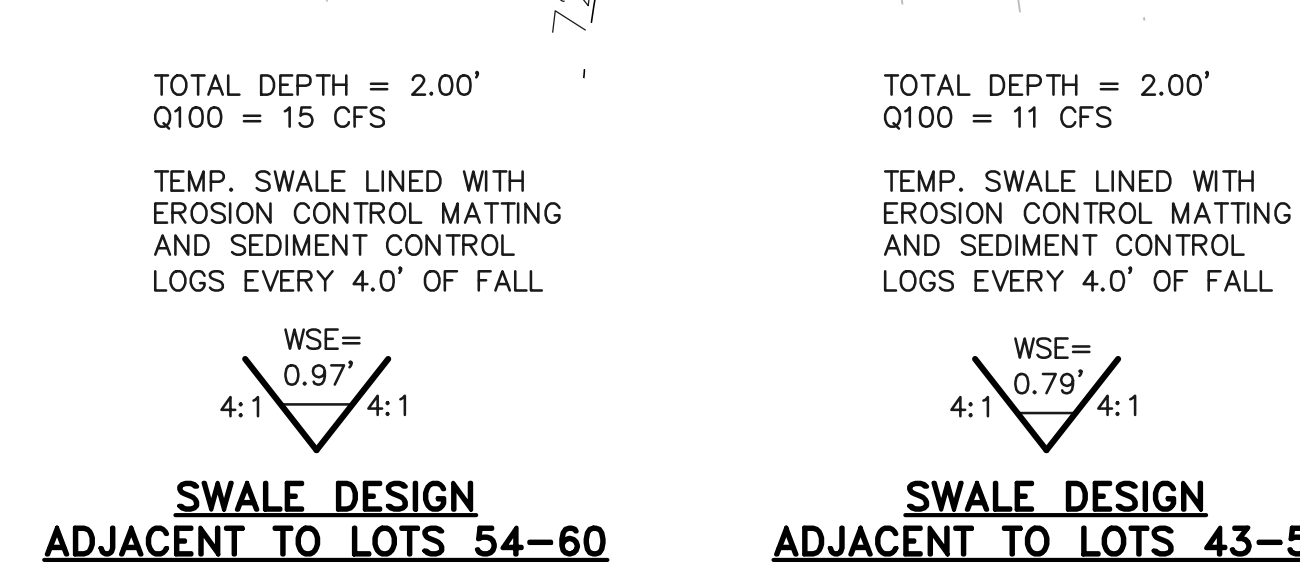
- (SF) (INSTALLED PRIOR TO INITIAL PHASE WITH CONTINUED MAINTENANCE DURING INTERIM AND VERTICAL PHASES)
- (VTC) (INSTALLED PRIOR TO INITIAL PHASE WITH CONTINUED MAINTENANCE THROUGH INTERIM AND VERTICAL PHASES)
- (SCL) (INSTALLED DURING INITIAL PHASE WITH CONTINUED MAINTENANCE THROUGH INTERIM AND VERTICAL PHASES)
- (ECB) (INSTALLED DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)
- (TSB) (INSTALLED DURING INITIAL PHASE WITH CONTINUED MAINTENANCE THROUGH INTERIM PHASE. CONVERSION TO PERMANENT EDB DURING VERTICAL PHASE)
- (IP) (INSTALLED DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)
- (SSA) (INSTALLED IN INITIAL PHASE WITH CONTINUED MAINTENANCE THROUGH INTERIM AND VERTICAL PHASE - EXACT LOCATION DETERMINED BY CONTRACTOR AND MARKED ON CSWMP)
- (CWA) (INSTALLED DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE - EXACT LOCATION DETERMINED BY CONTRACTOR AND MARKED ON CSWMP)



NOTE: GRADING AND DRAINAGE ESMTS. TO BE ACQUIRED FROM THE ADJACENT PROPERTY OWNER PRIOR TO CONSTRUCTION

NOTE: GRADING AND DRAINAGE ESMTS. TO BE ACQUIRED FROM THE ADJACENT PROPERTY OWNER PRIOR TO CONSTRUCTION

LEGEND	
LIMITS OF CONSTRUCTION/DISTURBANCE	INLET PROTECTION (IP)
PROPOSED CONTOUR-10	TEMPORARY SEDIMENT BASIN (TSB)
PROPOSED CONTOUR-2	EXIST. DIRECTION OF FLOW
EXISTING CONTOUR-10	DIRECTION OF FLOW
EXISTING CONTOUR-2	HIGH POINT (H.P.)
CUT/FILL LINE	LOW POINT (L.P.)
SILT FENCE	MODIFIED A LOT (MODIFIED A)
SILT FENCE	A LOT (A)
EROSION CONTROL BLANKET (ECB)	B LOT (B)
VEHICLE TRACKING CONTROL (VTC)	WALKOUT LOT (W/O)
SEDIMENT CONTROL LOGS (SCL)	NATURAL LOT (N)
	TRANSITION LOT (T)
	GARDEN LOT (G)
	EROSION CONTROL BLANKET (NORTH AMERICAN GREEN - SC150 OR EQUIVALENT) TO BE INSTALLED ON ALL 3:1 SLOPES OR GREATER
	SEEDING/MULCHING NOTE: SEEDING AND MULCHING SHALL BE INSTALLED INSIDE ENTIRE LIMITS OF GRADING EXCLUDING ROADWAY SURFACES, SIDEWALK AREAS AND RIP-RAP AREAS.

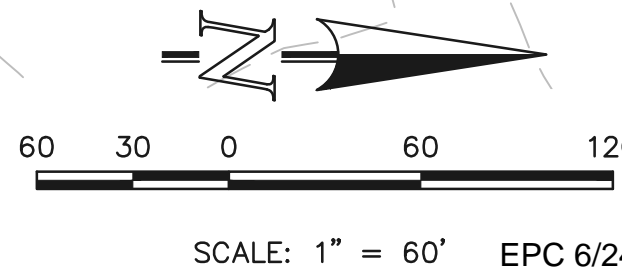


EXISTING VEGETATION: THE MAJORITY OF THE SITE IS COVERED WITH NATIVE GRASSES, YUCCA AND SPARSE PINE TREES.

NOTE: NO BATCH PLANTS ARE PROPOSED ON-SITE.

**TEMPORARY SEDIMENT BASIN DESIGN INFO**  
 TEMPORARY SEDIMENT BASIN (SEE DETAIL SC-7)  
 13.7 AC. DRAINAGE AREA AT 3,600 C.F./AC.  
 TOTAL REQUIRED STORAGE 49,320 CF = 1.13 AC-F.T.  
 APPROX. DIMENSIONS WIDTH = 100', LENGTH = 120', DEPTH = 5.0'  
 OUTLET = 6" PVC STANDPIPE W/ (1) COLUMN, (5) ROWS OF PERFORATIONS W/4" SPACING BETWEEN HOLES.  
 1-1/8" DIAMETER PERFORATIONS.  
 (3.0' EXPOSED HEIGHT OF STANDPIPE)  
 21" MINIMUM WIDE CREST LENGTH  
 DAYLIGHT 6" PVC INTO CURB LINE

**AS-BUILT**  
**11-30-2023**



<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS</p> <p><b>811</b></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>3/23/2022</p> <p>DATE</p> <p>619 N. Cascade Avenue, Suite 200                  Colorado Springs, Colorado 80903</p> <p>(719) 785-0790                  (719) 785-0799 (Fax)</p>	<p>RETREAT AT TIMBERIDGE FILING NO. 2</p> <p>CONSTRUCTION PLANS</p> <p>GRADING &amp; EROSION CONTROL PLAN</p> <p>DESIGNED BY: PRA SCALE: DATE: 02-25-21</p> <p>DRAWN BY: PRA (H) 1"= 60' SHEET 4 OF 24</p> <p>CHECKED BY: (V) 1"= N/A JOB NO. 1185.20</p>	
	<p>1 REVISED PER COUNTY SW AND ENG. COMMENTS 9/2/21</p> <p>2 REVISED PER COUNTY COMMENTS 2/7/22</p> <p>3 REVISED PER COUNTY COMMENTS 3/14/22</p>			<p>PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <p>MARC A. WHORTON, COLORADO REGISTERED PROFESSIONAL ENGINEER #37155</p>
	<p>CLASSIC CONSULTING</p>			

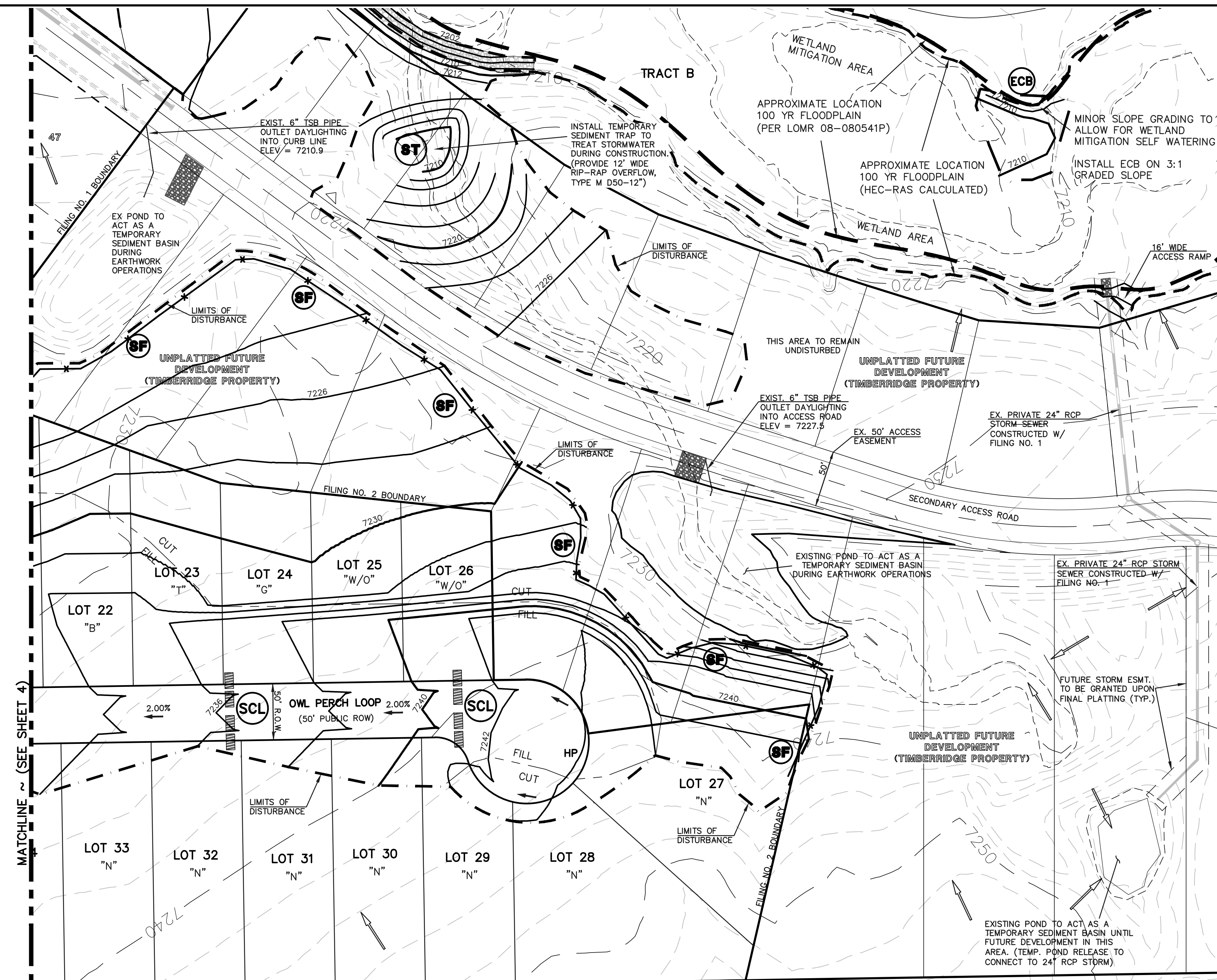


**BMP PHASING**

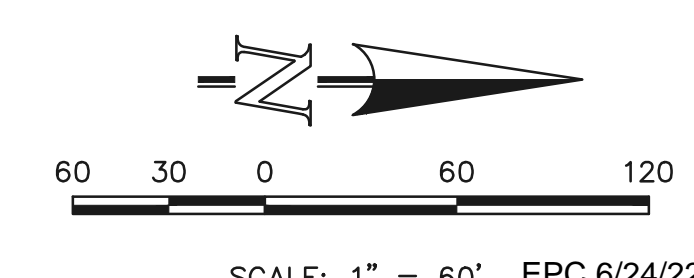
- SILT FENCE OR COMPACT BERM — x — (SF) (INSTALLED PRIOR TO INITIAL PHASE WITH CONTINUED MAINTENANCE DURING INTERIM AND VERTICAL PHASES)
- VEHICLE TRACKING CONTROL (VTC) (INSTALLED PRIOR TO INITIAL PHASE WITH CONTINUED MAINTENANCE THROUGH INTERIM AND VERTICAL PHASES)
- ROCK CHECK DAM (CD) (INSTALLED DURING INITIAL PHASE WITH CONTINUED MAINTENANCE THROUGH INTERIM AND VERTICAL PHASES)
- STABILIZED STORAGE AREA (SSA) (INSTALLED IN INITIAL PHASE WITH CONTINUED MAINTENANCE THROUGH INTERIM AND VERTICAL PHASE — EXACT LOCATION DETERMINED BY CONTRACTOR AND MARKED ON CSWP)
- INLET PROTECTION (IP) (INSTALLED DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)
- EROSION CONTROL BLANKET (ECB) (INSTALLED DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)
- TEMPORARY SEDIMENT BASIN (TSB-1) (INITIAL AND INTERIM PHASE WITH CONVERSION TO PERMANENT EDB DURING INTERIM PHASE)
- CONCRETE WASHOUT AREA (CWA) (INSTALLED DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE — EXACT LOCATION DETERMINED BY CONTRACTOR AND MARKED ON CSWP)
- SEDIMENT TRAP (ST) (INSTALLED DURING INTERIM PHASE WITH CONTINUED MAINTENANCE THROUGH VERTICAL PHASE)

**LEGEND**

- LIMITS OF CONST./DISTURBANCE (---)
- CUT/FILL LINE (---)
- PROPOSED CONTOUR-10 (---)
- PROPOSED CONTOUR-2 (---)
- EXISTING CONTOUR-10 (---)
- EXISTING CONTOUR-2 (---)
- CUT/FILL LINE (---)
- SILT FENCE (--- x ---)
- SILT FENCE (SF)
- SEEDING/MULCHING (SM)
- ROCK CHECK DAM (CD)
- VEHICLE TRACKING CONTROL (VTC)
- SEDIMENT CONTROL LOGS (SCL)
- INLET PROTECTION (IP)
- SEDIMENT TRAP (ST)
- EROSION CONTROL BLANKET (ECB)
- TURF REINFORCEMENT MAT (TRM)
- TEMPORARY SEDIMENT BASIN (TSB)
- EXIST. DIRECTION OF FLOW (---)
- DIRECTION OF FLOW (---)
- HIGH POINT (H.P.)
- LOW POINT (L.P.)
- MODIFIED A LOT (MODIFIED A)
- A LOT (A)
- B LOT (B)
- WALKOUT LOT (W/O)
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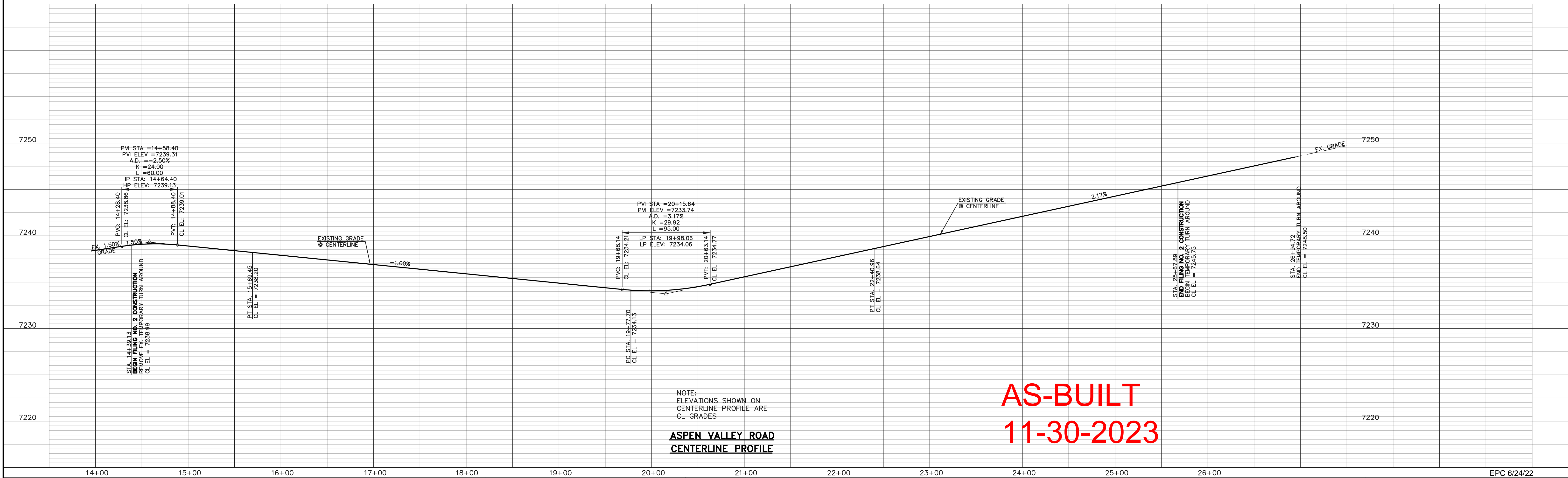
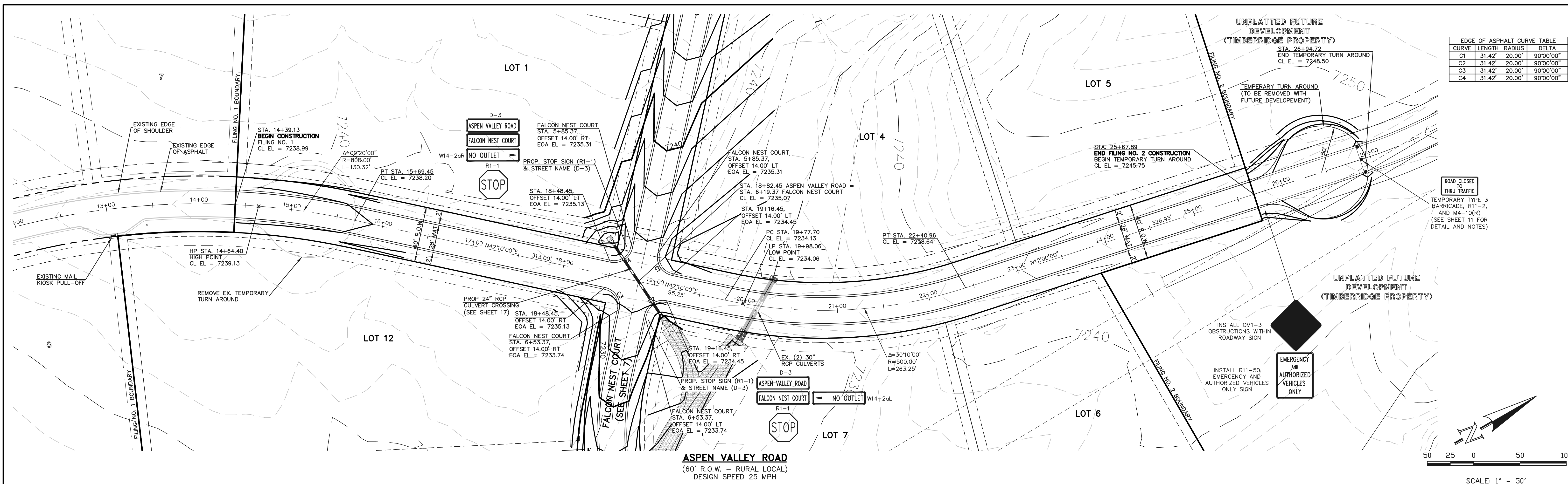
**AS-BUILT**  
**11-30-2023**



<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS <b>811</b> 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>1</td> <td>REVISED PER COUNTY SW AND ENG. COMMENTS</td> <td>9/3/21</td> </tr> <tr> <td>2</td> <td>REVISED PER COUNTY COMMENTS</td> <td>2/7/22</td> </tr> <tr> <td>3</td> <td>REVISED PER COUNTY COMMENTS</td> <td>3/15/22</td> </tr> <tr> <td>4</td> <td>ADDED EAST SIDE CHANNEL ACCESS RAMPS</td> <td>5/18/22</td> </tr> </tbody> </table>	NO.	REVISION	DATE	1	REVISED PER COUNTY SW AND ENG. COMMENTS	9/3/21	2	REVISED PER COUNTY COMMENTS	2/7/22	3	REVISED PER COUNTY COMMENTS	3/15/22	4	ADDED EAST SIDE CHANNEL ACCESS RAMPS	5/18/22	<p>REVIEW:</p> <p>PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERING SURVEYORS, LLC</p> <p>MARC A. WHORTON, P.E. #37155 DATE 5/19/2022</p>	<p><b>CLASSIC CONSULTING</b></p> <p>619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903 (719) 785-0790 (719) 785-0799 (Fax)</p>	<p><b>RETREAT AT TIMBERRIDGE FILING NO. 2</b> <b>CONSTRUCTION PLANS</b> GRADING &amp; EROSION CONTROL PLAN</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED BY</td> <td>PRA</td> <td>SCALE</td> <td>DATE</td> <td>02-25-21</td> </tr> <tr> <td>DRAWN BY</td> <td>PRA</td> <td>(H) 1"= 60'</td> <td>SHEET</td> <td>5 OF 24</td> </tr> <tr> <td>CHECKED BY</td> <td>(V) 1"= N/A</td> <td>JOB NO.</td> <td colspan="2">1185.20</td> </tr> </table>	DESIGNED BY	PRA	SCALE	DATE	02-25-21	DRAWN BY	PRA	(H) 1"= 60'	SHEET	5 OF 24	CHECKED BY	(V) 1"= N/A	JOB NO.	1185.20	
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NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	09-09-21
2	REVISED PER COUNTY COMMENTS	2/4/22

REVIEW:

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

MARC A. WHORTON, COLORADO REGISTERED PROFESSIONAL ENGINEER #37155

3/23/2022

**CLASSIC CONSULTING**

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

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

RETREAT AT TIMBERIDGE FILING NO. 2  
CONSTRUCTION PLANS  
STREET IMPROVEMENT PLANS  
ASPEN VALLEY ROAD

DESIGNED BY	PRA	SCALE	DATE
	PRA	(H) 1" = 50'	02-25-21

DRAWN BY	PRA	SCALE	SHEET	OF
	PRA	(V) 1" = 5'	6	24

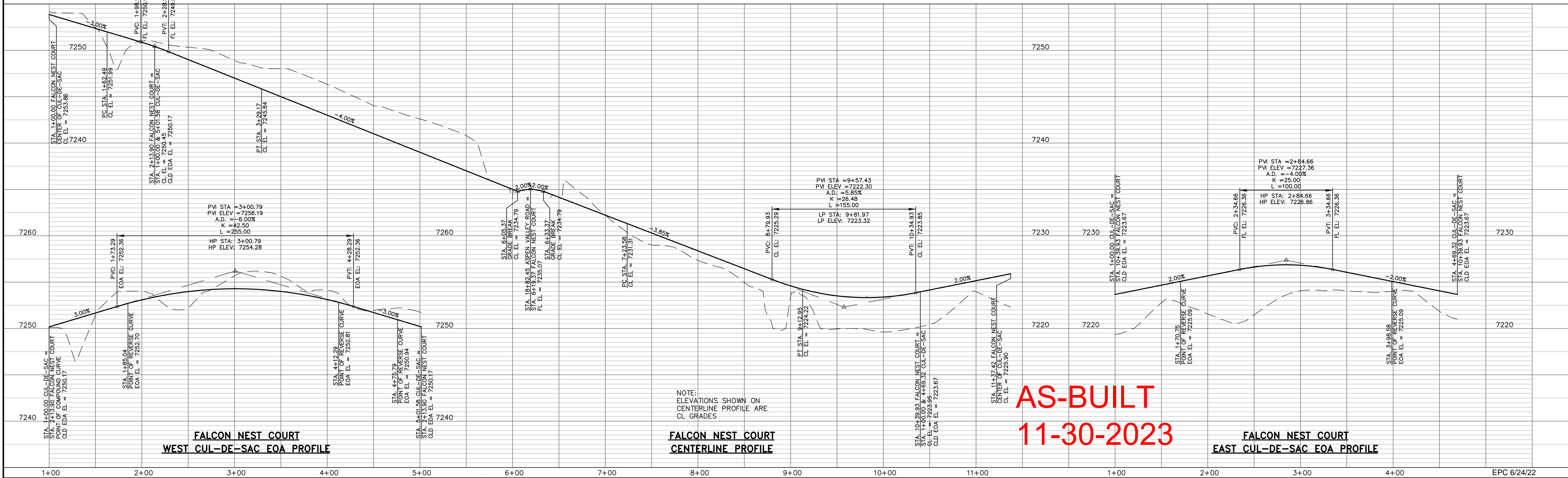
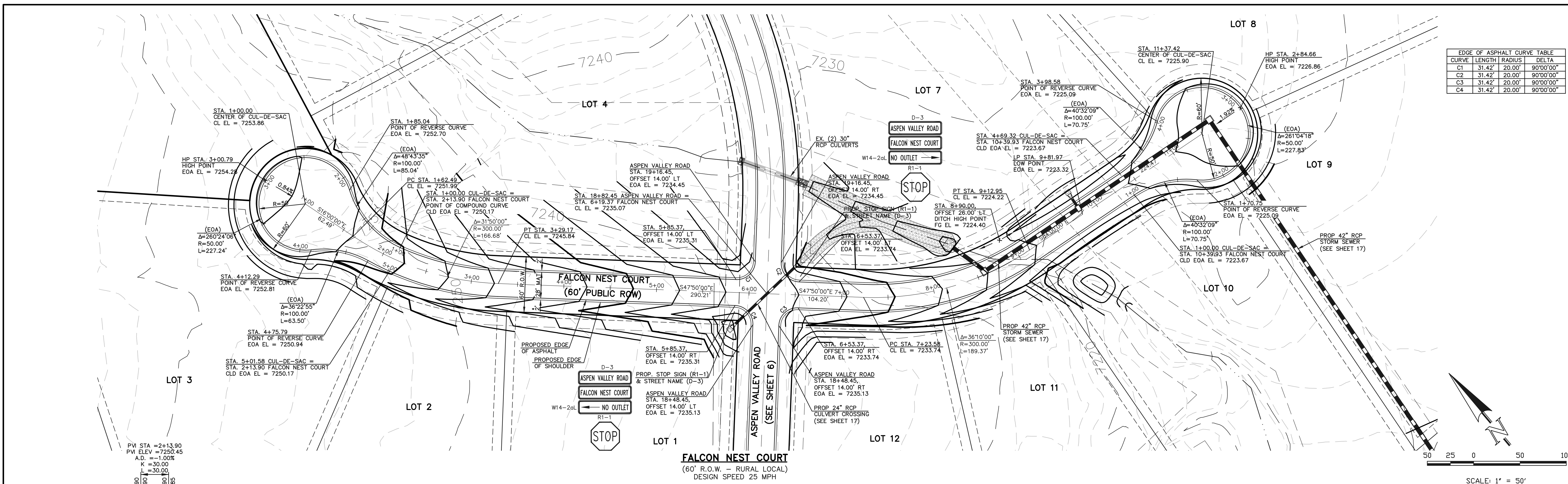
CHECKED BY	PRA	SCALE	JOB NO.
	PRA	(V) 1" = 5'	1185.20

EPC 6/24/22

N:\118520\DRAWINGS\CONSTRUCTION\06-118520-S-01.dwg - 2/16/2022 2:03:00 PM, 1:1



CURVE	LENGTH	RADIUS	DELTA
C1	31.42'	20.00'	90°00'00"
C2	31.42'	20.00'	90°00'00"
C3	31.42'	20.00'	90°00'00"
C4	31.42'	20.00'	90°00'00"



**AS-BUILT**  
**11-30-2023**

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MARC A. WHORTON, P.E., P.S.  
#37155

3/23/2022  
DATE



RETREAT AT TIMBERIDGE FILING NO. 2  
CONSTRUCTION PLANS  
STREET IMPROVEMENT PLANS  
FALCON NEST COURT

DESIGNED BY: PRA  
DRAWN BY: PRA  
CHECKED BY:

SCALE: (H) 1" = 50'  
(V) 1" = 5'

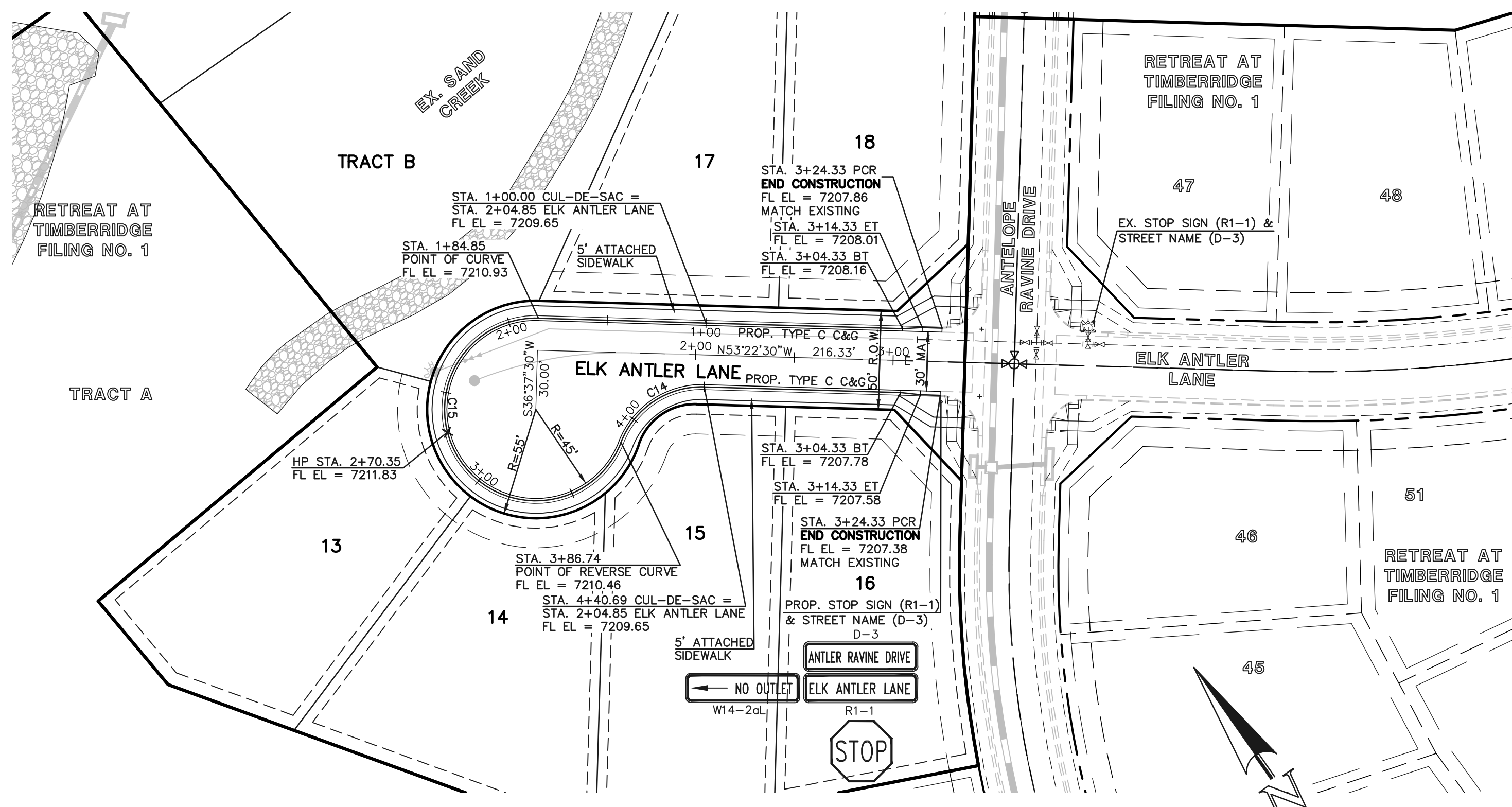
DATE: 02-25-21  
SHEET 7 OF 24  
JOB NO. 1185.20

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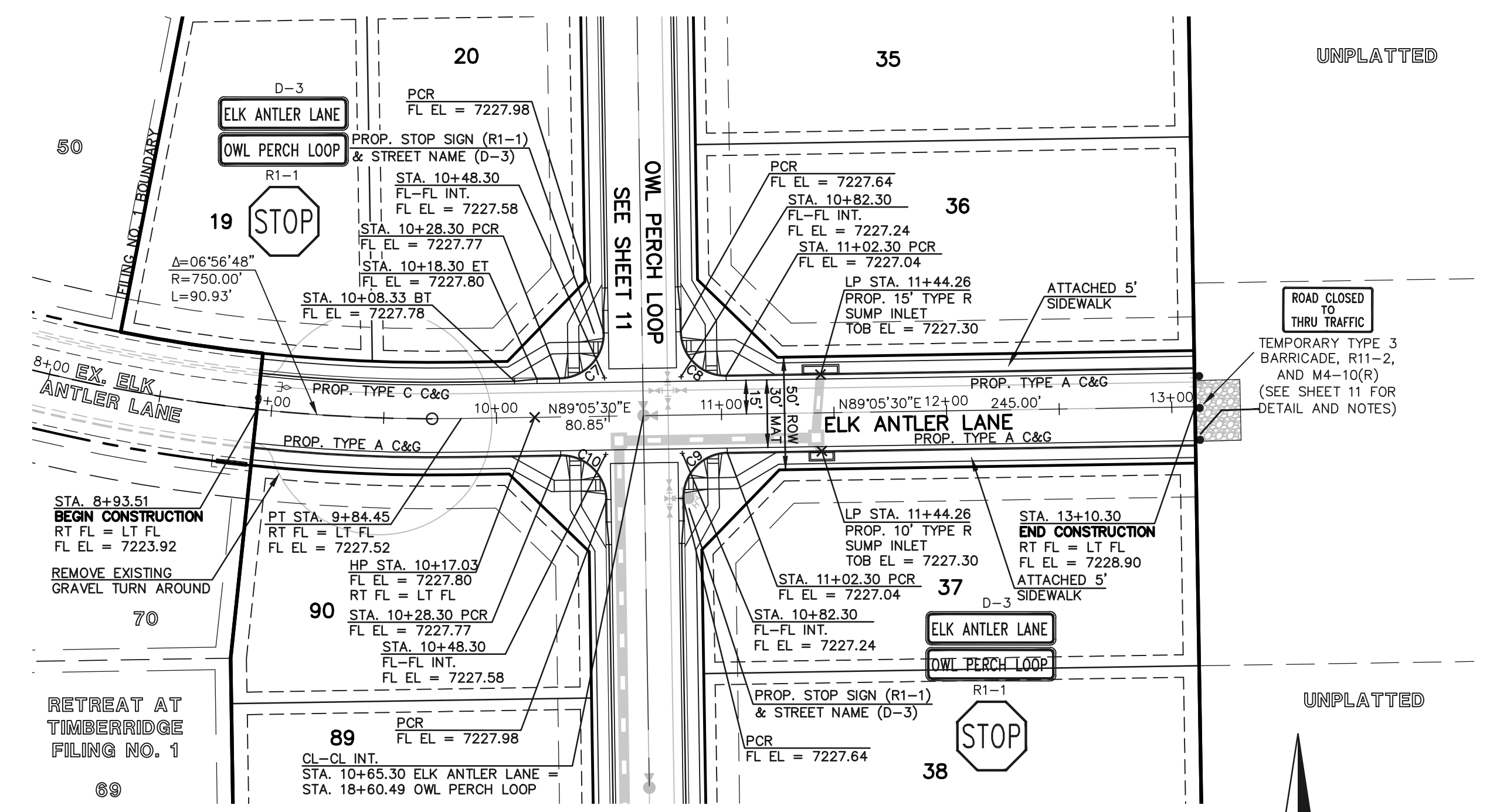




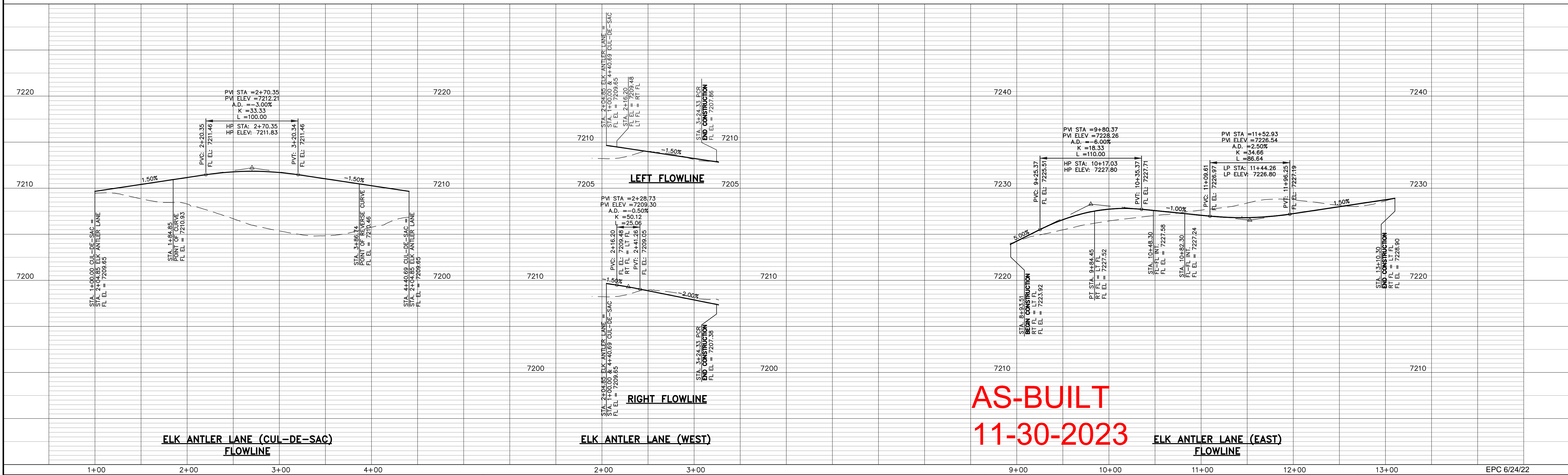


**ELK ANTLER LANE (WEST)**  
 (50' R.O.W. - URBAN LOCAL)  
 DESIGN SPEED 25 MPH  
 SCALE: 1" = 50'

CURVE	LENGTH	RADIUS	DELTA
C7	31.42'	20.00'	90°00'00"
C8	31.42'	20.00'	90°00'00"
C9	31.42'	20.00'	90°00'00"
C10	31.42'	20.00'	90°00'00"
C14	53.95'	43.83'	70°31'44"
C15	201.88'	46.17'	250°31'38"



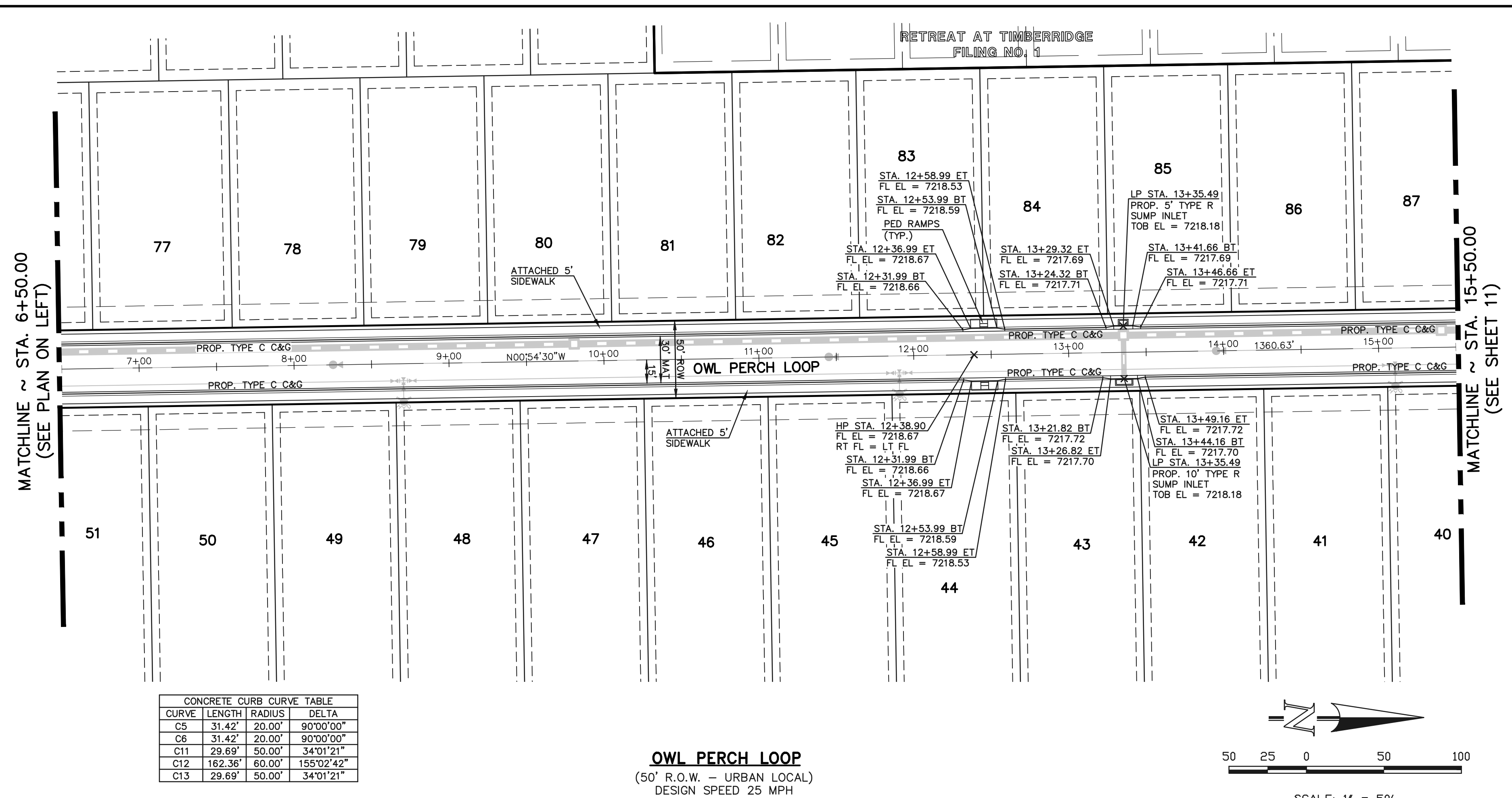
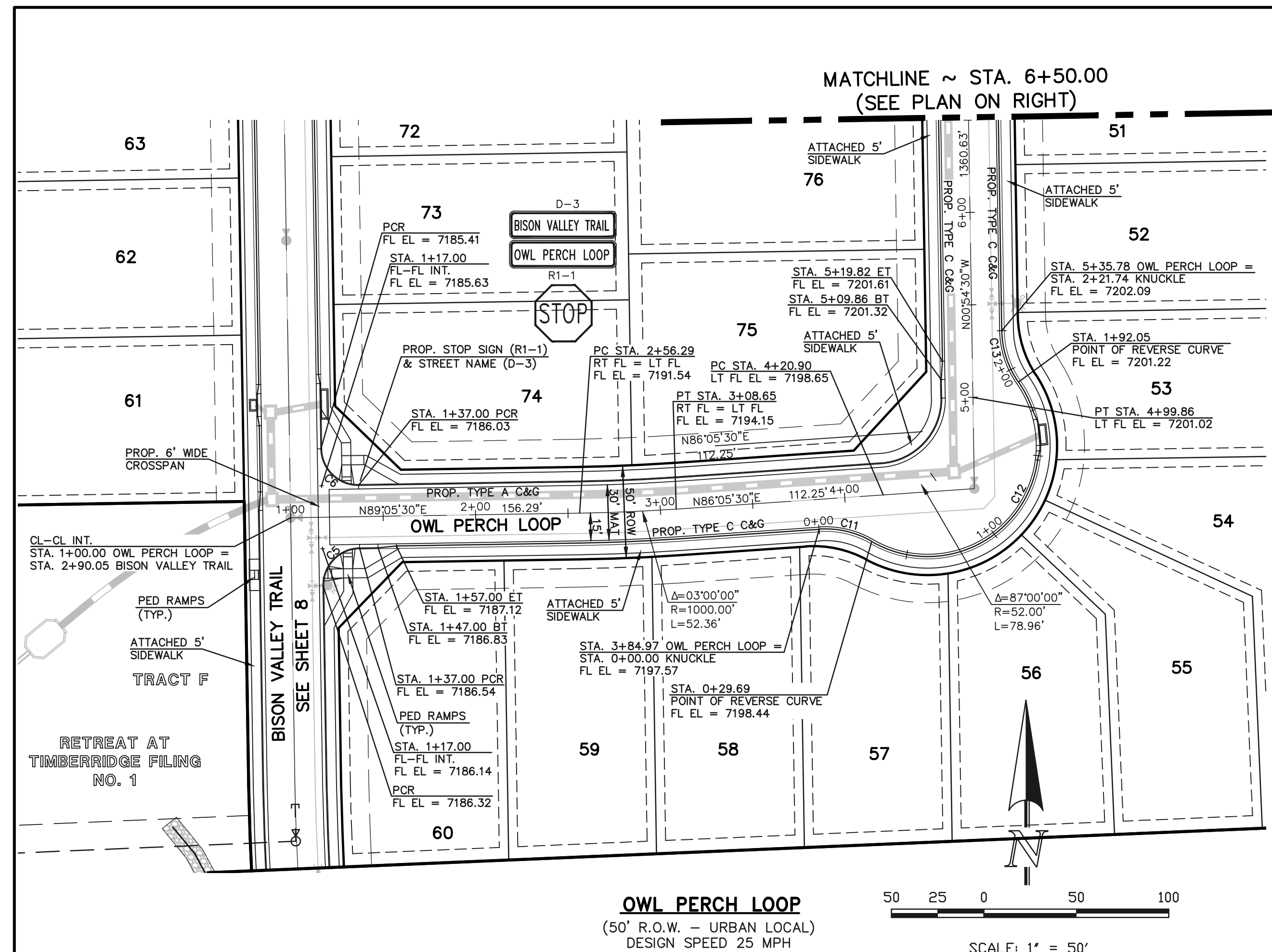
**ELK ANTLER LANE (EAST)**  
 (50' R.O.W. - URBAN LOCAL)  
 DESIGN SPEED 25 MPH  
 SCALE: 1" = 50'



**AS-BUILT**  
**11-30-2023**

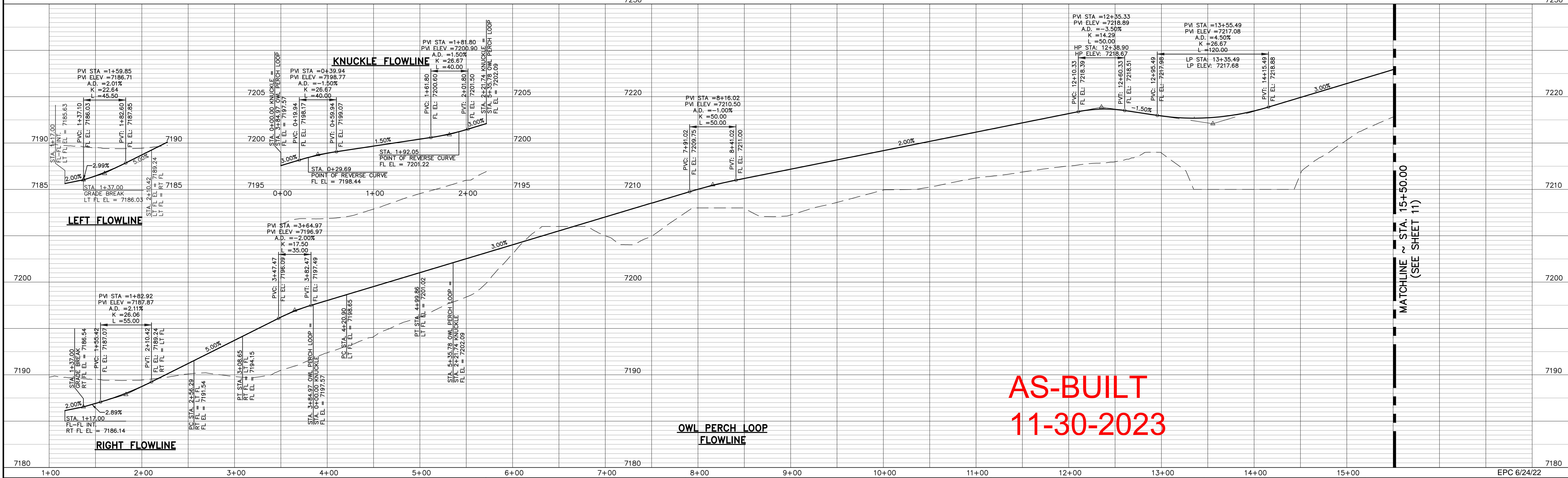
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		NO.	REVISION	DATE					
<p>CLASSIC CONSULTING</p> <p>619 N. Cascade Avenue, Suite 200 Colorado Springs, Colorado 80903</p> <p>(719) 785-0790 (719) 785-0799 (Fax)</p>									





CONCRETE CURB CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA
C5	31.42'	20.00'	90°00'00"
C6	31.42'	20.00'	90°00'00"
C11	29.69'	50.00'	34°01'21"
C12	162.36'	60.00'	155°02'42"
C13	29.69'	50.00'	34°01'21"



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DATE

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Colorado Springs, Colorado 80903  
(719) 785-0790  
(719) 785-0799 (Fax)

RETREAT AT TIMBERIDGE FILING NO. 2  
CONSTRUCTION PLANS  
STREET IMPROVEMENT PLANS  
OWL PERCH LOOP

DESIGNED BY: PRA  
DRAWN BY: PRA  
CHECKED BY: (V)

SCALE: (H) 1" = 50'  
(V) 1" = 5'

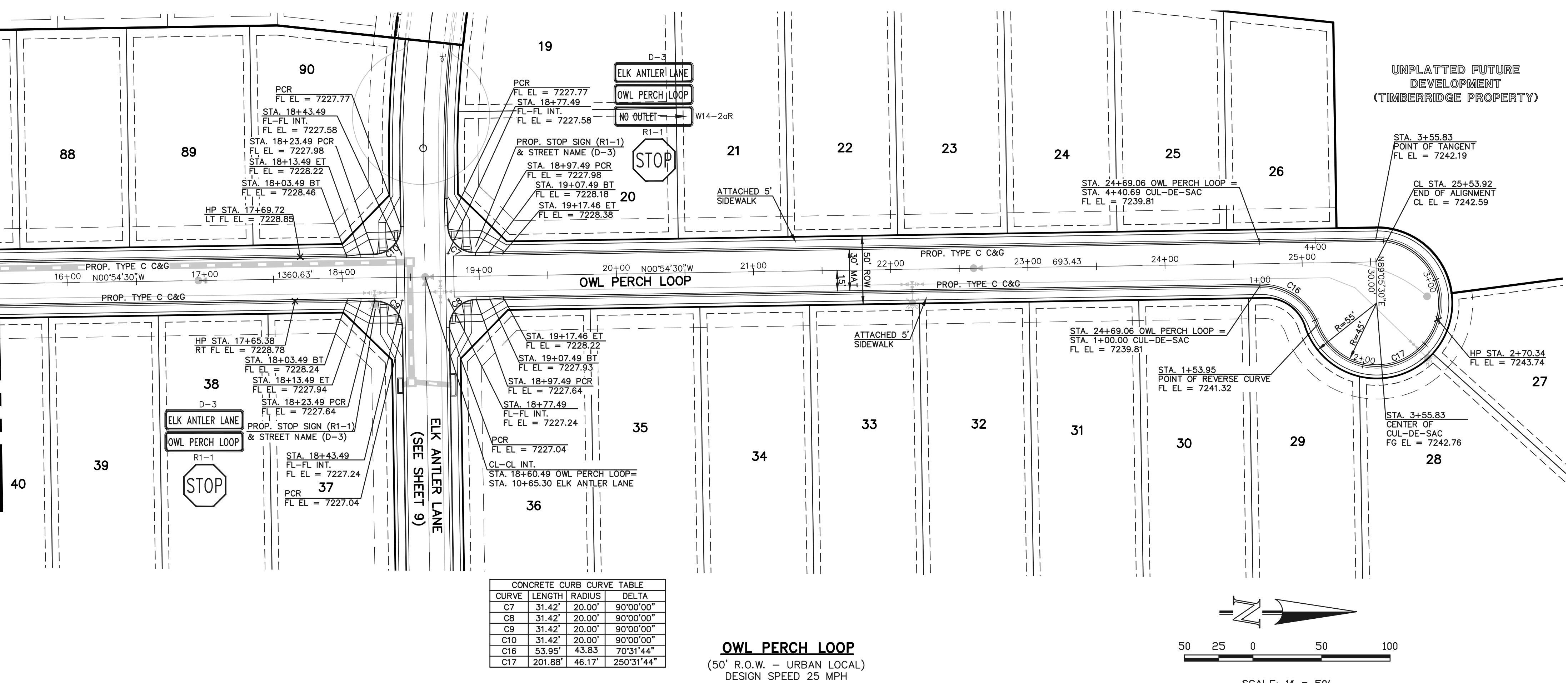
DATE: 02-25-21  
SHEET 10 OF 24  
JOB NO.: 1185.20

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MATCHLINE ~ STA. 15+50.00  
(SEE SHEET 10)

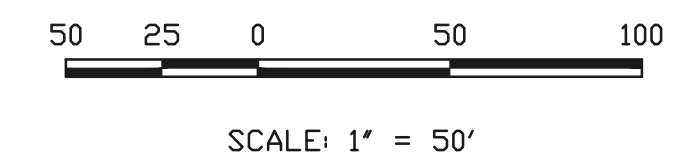
MATCHLINE ~ STA. 15+50.00  
(SEE SHEET 10)



CONCRETE CURB CURVE TABLE

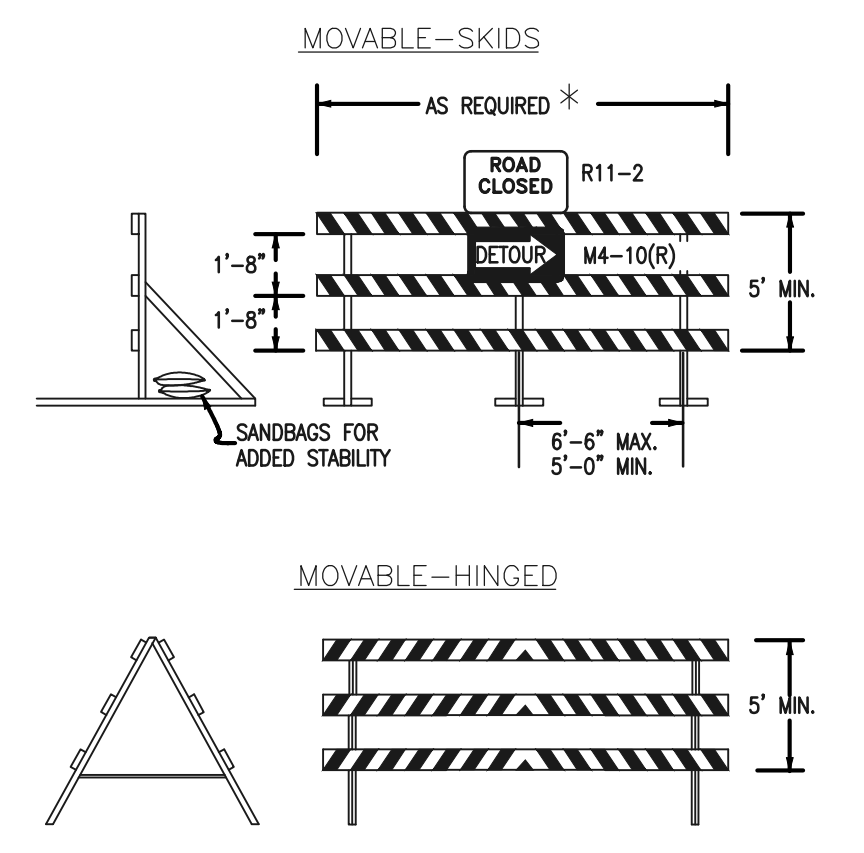
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C17	201.88'	46.17'	250°31'44"

**OWL PERCH LOOP**  
(50' R.O.W. - URBAN LOCAL)  
DESIGN SPEED 25 MPH

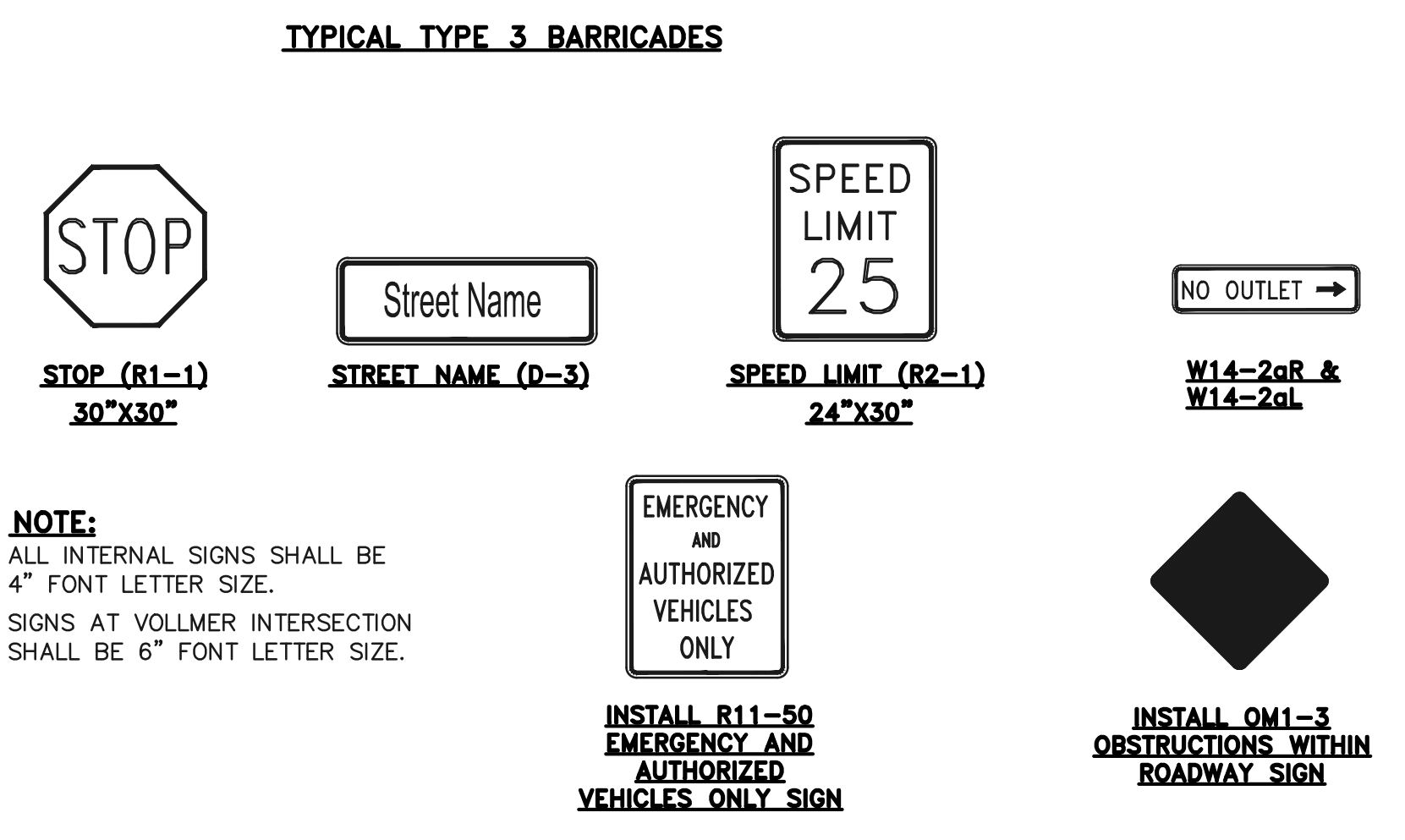


RAIL LENGTH TABLE \*

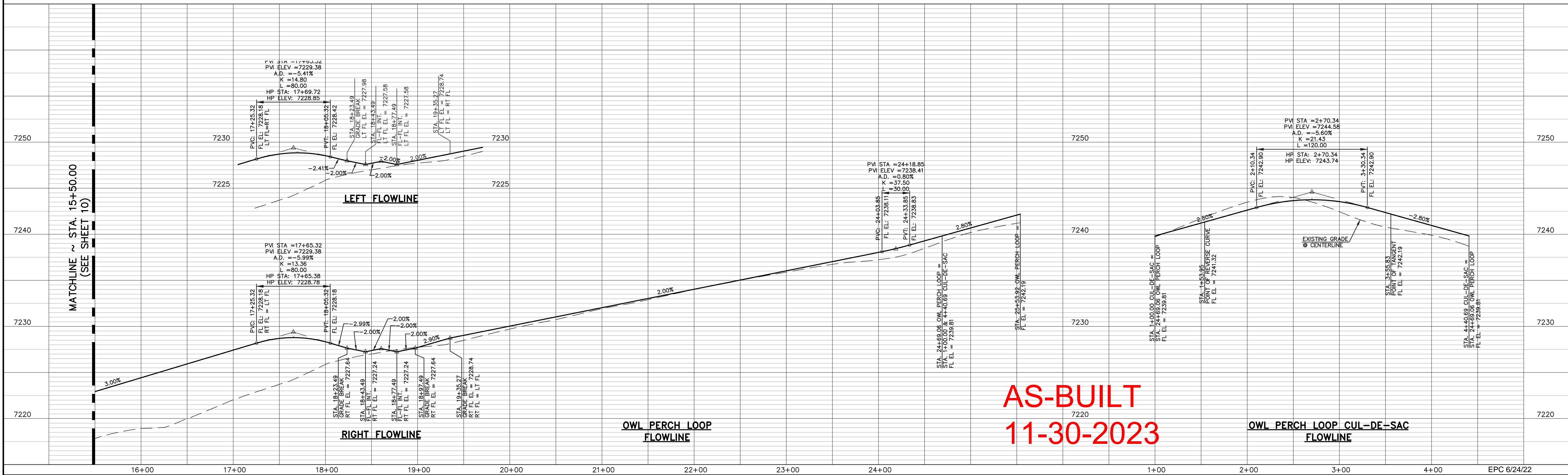
TYPE 3 BARRICADE		LENGTH
FIXED	MOVABLE	
F - A	M - A	8' - 14'
F - B	M - B	15' - 24'
F - C	M - C	25' - 35'
F - D	M - D	> 35'



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



**NOTE:**  
ALL INTERNAL SIGNS SHALL BE 4" FONT LETTER SIZE.  
SIGNS AT VOLLMER INTERSECTION SHALL BE 6" FONT LETTER SIZE.



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MARC A. WHORTON, COLORADO REGISTERED PROFESSIONAL ENGINEER #37155

3/23/2022 DATE

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

RETREAT AT TIMBERIDGE FILING NO. 2  
CONSTRUCTION PLANS  
STREET IMPROVEMENT PLANS  
OWL PERCH LOOP

DESIGNED BY	PRA	SCALE	DATE	02-25-21
DRAWN BY	PRA	(H) 1" = 50'	SHEET	11 OF 24
CHECKED BY	(V) 1" = 5'	JOB NO.	1185.20	



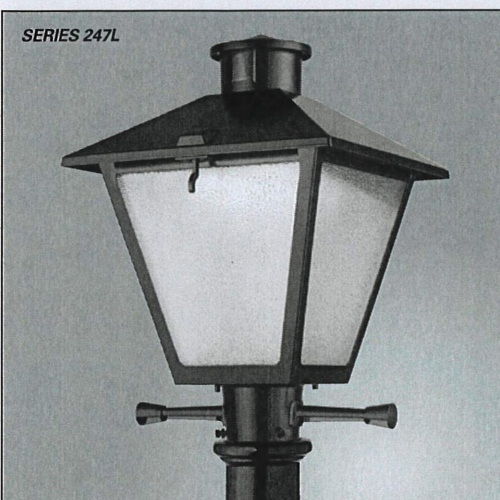






### American Revolution LED Series 247L

#### PRODUCT OVERVIEW



#### Features:

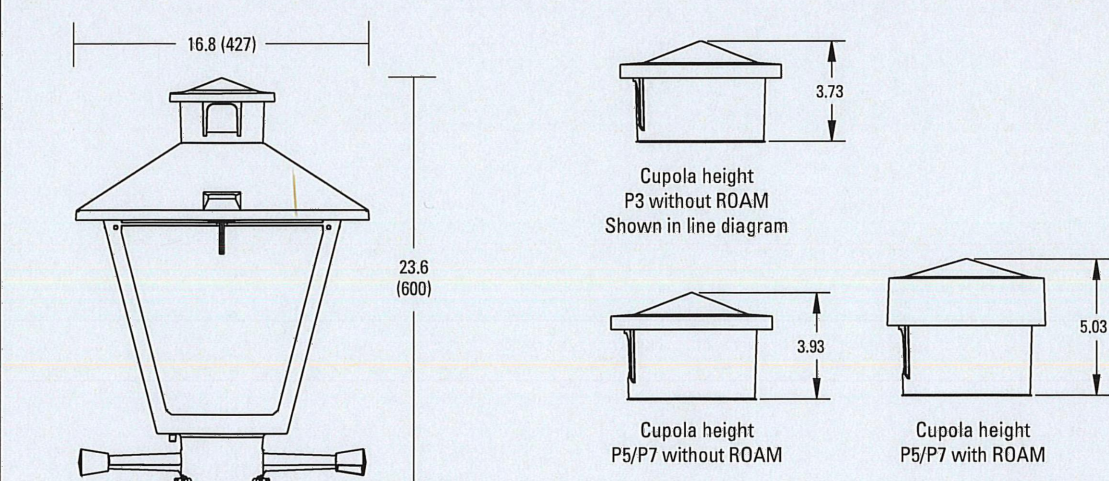
- Die-cast aluminum housing and hood for long-life performance
- Die-cast trigger latch (TL) and captive thumb screws option available for easy access to internal components
- Optical assembly designed for maximum performance, available in Type II, Type III and Type V
- Hinged hood and captive thumb screws provision afford quick, easy access to electrical and optical area for servicing
- Slipfitter with three set screws allows secure installation to pole sizes 2-3/8" or 3" O.D.
- Surge protection device (standard) exceeds ANSI C82.41 Category C1 criteria (surge tested at 10kV/5kA)
- Complies with ANSI: C136.2, C136.10, C136.15
- CSA listed and suitable for up to 30°C ambient
- Rated L70, LED life greater than 100,000 hours at 25°C
- Replaces up to 150W HPS light source incumbent models
- LED electronic 0V-10V dimmable driver
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/DPL](http://www.designlights.org/DPL) to confirm which versions are qualified.

#### Applications:

- Streetscapes
- Walkways
- Pathways
- Parks

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

#### DIMENSIONS



Effective Projected Area (EPA)  
The EPA for the American Revolution Series 247L is 1.8 sq. ft.  
PS or P7 option total height is 24.9 (623).  
Approx. Wt. = 36 lbs.

All dimensions are inches (millimeters) unless otherwise noted.

Note: Specifications subject to change without notice.

American Revolution Series 247L LED



### American Revolution LED Series 247L

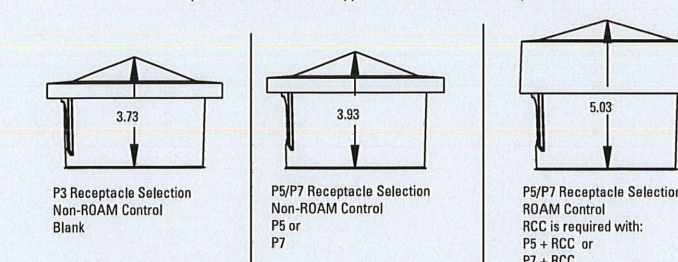
#### ORDERING INFORMATION

Example: 247L 20LEDE70 MVOLT 4K RS AY

Series	Performance Package	Voltage	Color Temperature (CCT)
247L American Revolution LED	20LEDE10 20 Chips, 1000 mA Driver, 72 input watts 20LEDE20 20 Chips, 2000 mA Driver, 40 input watts 10LEDE10 10 Chips, 1000 mA Driver, 28 input watts 10LEDE70 10 Chips, 700 mA Driver, 25 input watts 10LEDE35 10 Chips, 350 mA Driver, 13 input watts 10LEDE36 10 Chips, 350 mA Driver, 13 input watts	MVOLT Multi-volt, 120-277V 247 247V 480 480V	3K 3000K 4K 4000K 5K 5000K

Distribution	Optics	Options	Miscellaneous
R2 Type II R3 Type III R5 Type V	AY Acrylic PV Polycarbonate CY Gray DBB Dark Bronze WH White BZ Bronze	Blank (standard) Gray Dark Bronze White Bronze Photocentral (blank) 3 pin NEMA Photocentral Receptacle (standard) NR <sup>2</sup> No Photocentral Receptacle PS <sup>2</sup> 5 pin NEMA Photocentral Receptacle (diminable driver included) P7 <sup>2</sup> 7 pin NEMA Photocentral Receptacle (diminable driver included) PCLL <sup>15</sup> Solid State Long Life Photocentral PCSS <sup>15A</sup> Not CSA Listed Solid State Long Life Photocentral (120-277V)	SS Stainless steel hardware NL NEMA Label NL Not CSA Listed TL Tool-less Entry LDR Ladder Rest SH Shorting Cap SHK <sup>2</sup> Not CSA Listed Shorting Cap HSB House Side Shield Black HSW House Side Shield White GR Enhanced Corrosion Resistant Finish RDC <sup>2</sup> ROAM Dimming Node Cupola Cover Accessories RDC57 <sup>2</sup> ROAM Dimming Node Cupola Cover

Cupola size based on type of control and receptacle

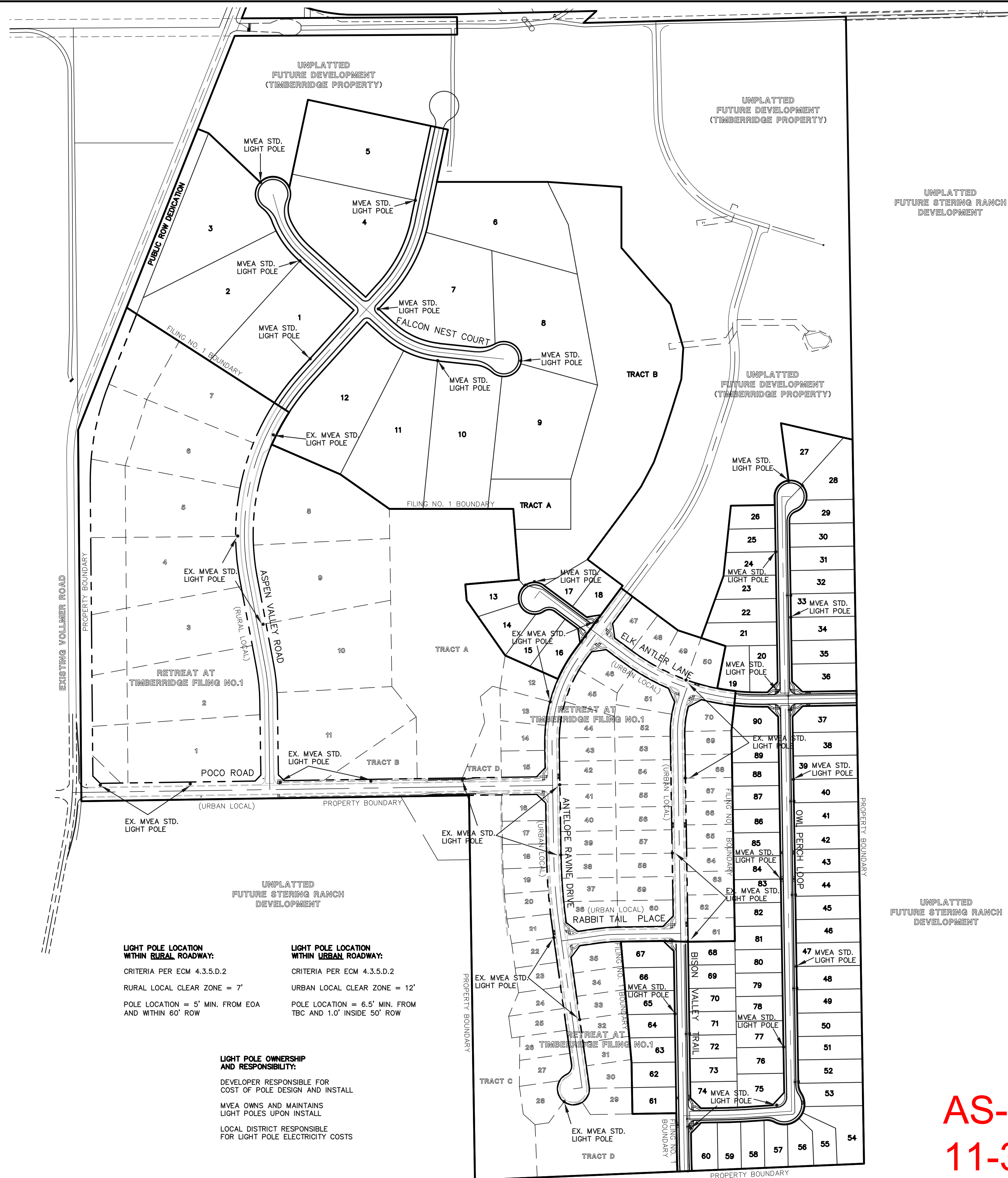


#### Notes:

- Other colors available, please contact factory
- PS and SH not available with LR option
- Taller cupola cover (RCC) is required when used with ROAM or other similar wireless monitoring control systems
- Standard failure mode "Fail On"
- Photocentral supplied with ANSI Standard Turn-On levels
- XI option is required
- Ships with unit, field installed
- Required when using ROAM or other similar wireless monitoring control systems



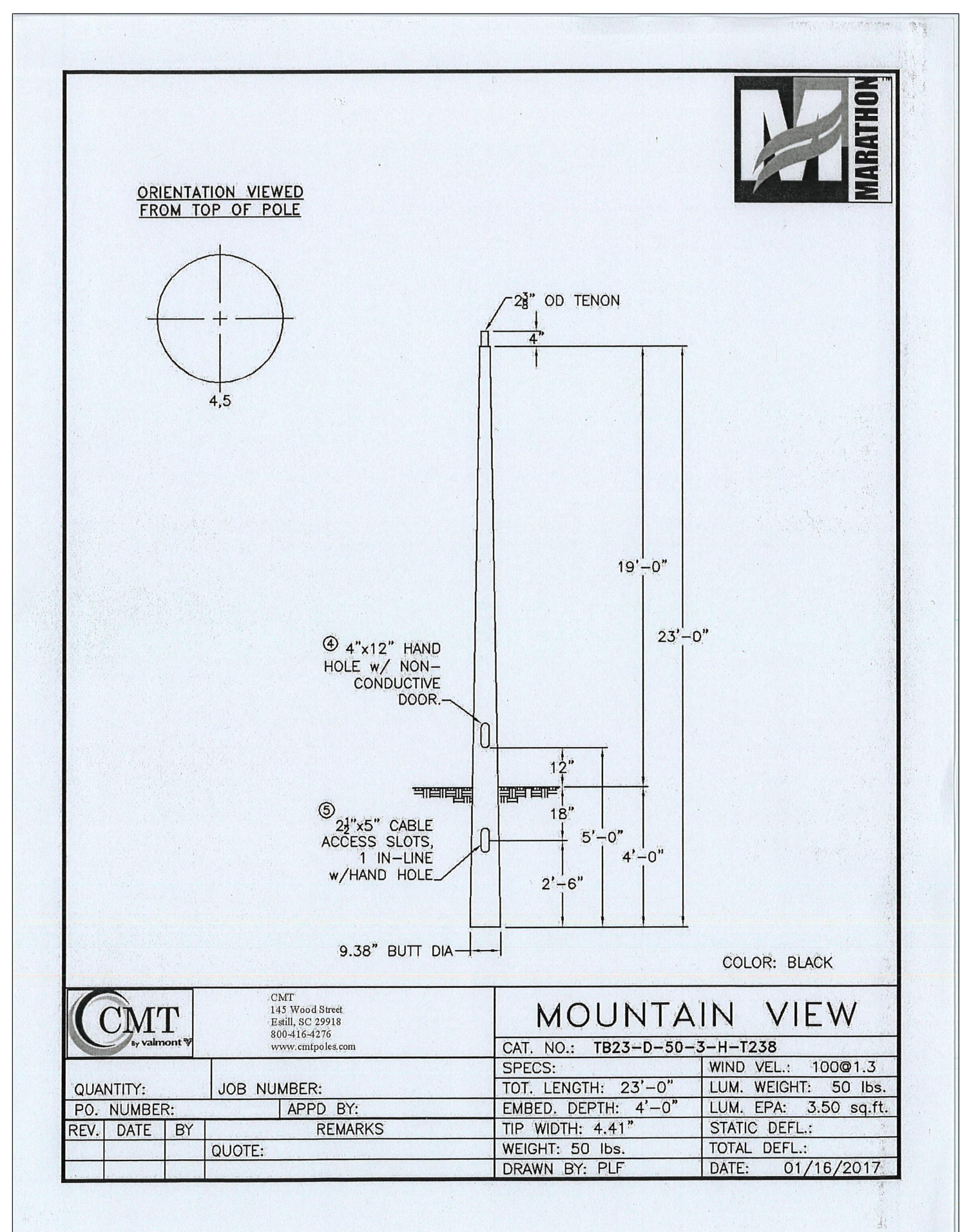
Warranty Five-year limited warranty. Complete warranty terms located at [www.aelconsulting.com/customer-resources/Products\\_and\\_conditions.aspx](http://www.aelconsulting.com/customer-resources/Products_and_conditions.aspx)  
Actual performance may differ as a result of end-user environment and application.  
All values are design or typical values, measured under laboratory conditions at 25°C.  
Specifications subject to change without notice.  
Please contact your sales representative for the latest product information.



**LIGHT POLE LOCATION WITHIN RURAL ROADWAY:**  
CRITERIA PER ECM 4.3.5.D.2  
RURAL LOCAL CLEAR ZONE = 7'  
POLE LOCATION = 5' MIN. FROM EOA AND WITHIN 60' ROW

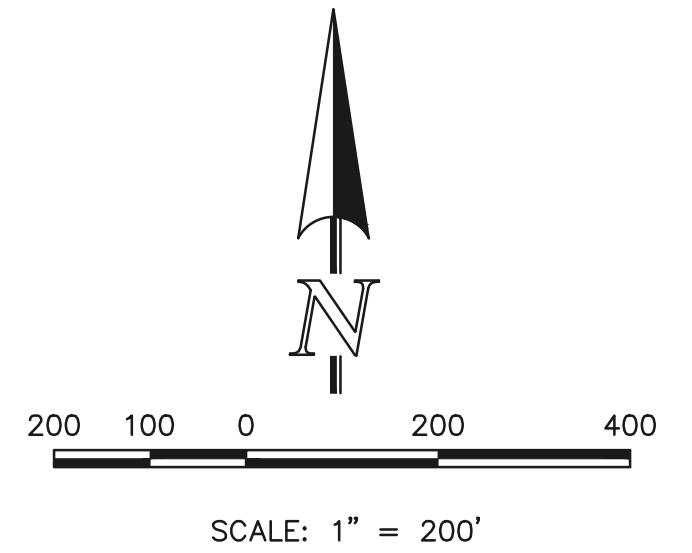
**LIGHT POLE LOCATION WITHIN URBAN ROADWAY:**  
CRITERIA PER ECM 4.3.5.D.2  
URBAN LOCAL CLEAR ZONE = 12'  
POLE LOCATION = 6.5' MIN. FROM TBC AND 1.0' INSIDE 50' ROW

**LIGHT POLE OWNERSHIP AND RESPONSIBILITY:**  
DEVELOPER RESPONSIBLE FOR COST OF POLE DESIGN AND INSTALL  
MVEA OWNS AND MAINTAINS LIGHT POLES UPON INSTALL  
LOCAL DISTRICT RESPONSIBLE FOR LIGHT POLE ELECTRICITY COSTS



CMT		MOUNTAIN VIEW	
QUANTITY:	JOB NUMBER:	CAT. NO.:	TB23-D-50-3-H-T238
RD. NUMBER:	APPRO. BY:	SPECS:	TOT. LENGTH: 23'-0"
REV. DATE BY:	REMARKS:	EMBED. DEPTH: 4'-0"	WIND VEL.: 100@1.3
QUOTE:		TIP WIDTH: 4.41"	LUM. WEIGHT: 50 lbs.
		WEIGHT: 50 lbs.	LUM. EPA: 3.50 sq.ft.
		DRAWN BY: PLF	STATIC DEFL.: TOTAL DEFL.:
		DATE:	01/16/2017

# AS-BUILT 11-30-2023



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RETREAT AT TIMBERIDGE FILING NO. 2 CONSTRUCTION PLANS

STREET LIGHT POLE LOCATION PLAN

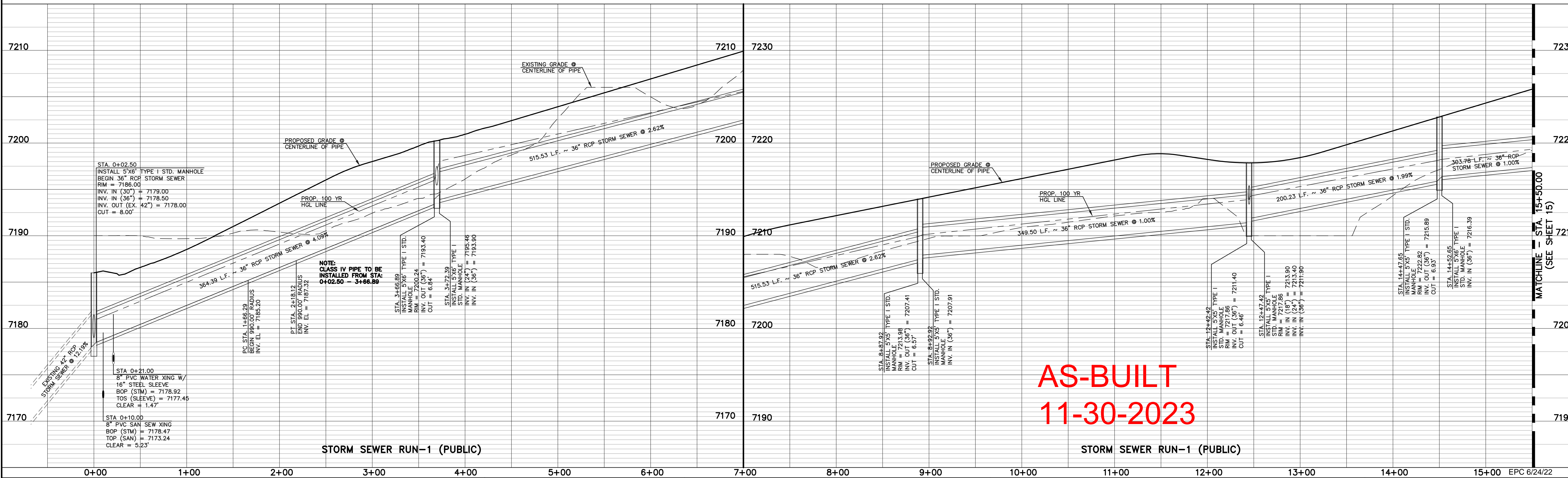
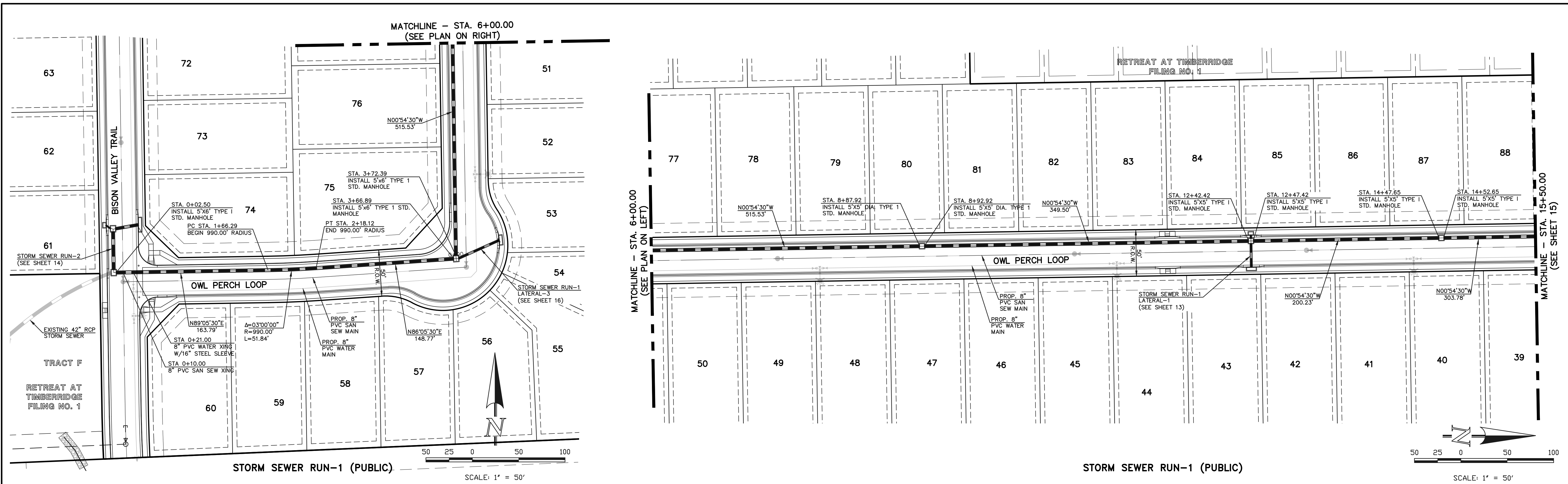
DESIGNED BY: PRA SCALE: DATE: 03-19-21

DRAWN BY: PRA (H) 1" = 200' SHEET 13 OF 24

CHECKED BY: (V) 1" = N/A JOB NO. 1185.20

EPC 6/24/22





STORM SEWER RUN-1 (PUBLIC)

0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00 14+00 15+00 EPC 6/24/22

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

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NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	09-10-21
2	REVISED PER COUNTY COMMENTS	2/4/22

REVIEW:

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

MARC A. WHORTON, P.E., P.S.  
PROFESSIONAL ENGINEER  
#37155

3/23/2022  
DATE

**CLASSIC CONSULTING**

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

RETREAT AT TIMBERIDGE FILING NO. 2  
CONSTRUCTION PLANS  
PUBLIC STORM SEWER PLAN

DESIGNED BY: PRA  
DRAWN BY: PRA  
CHECKED BY:

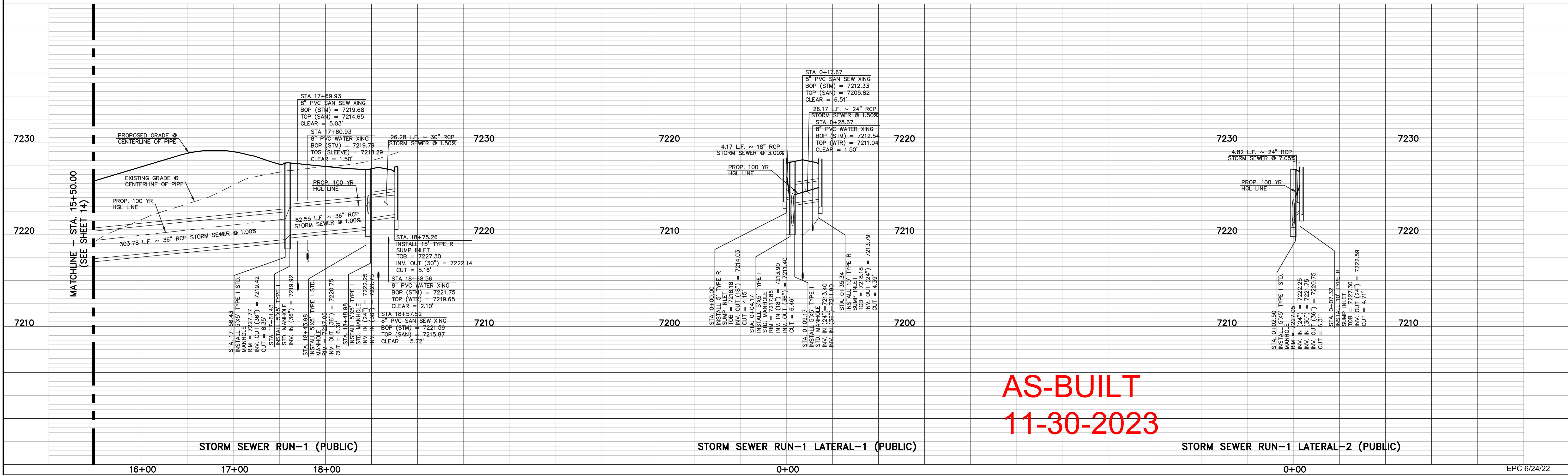
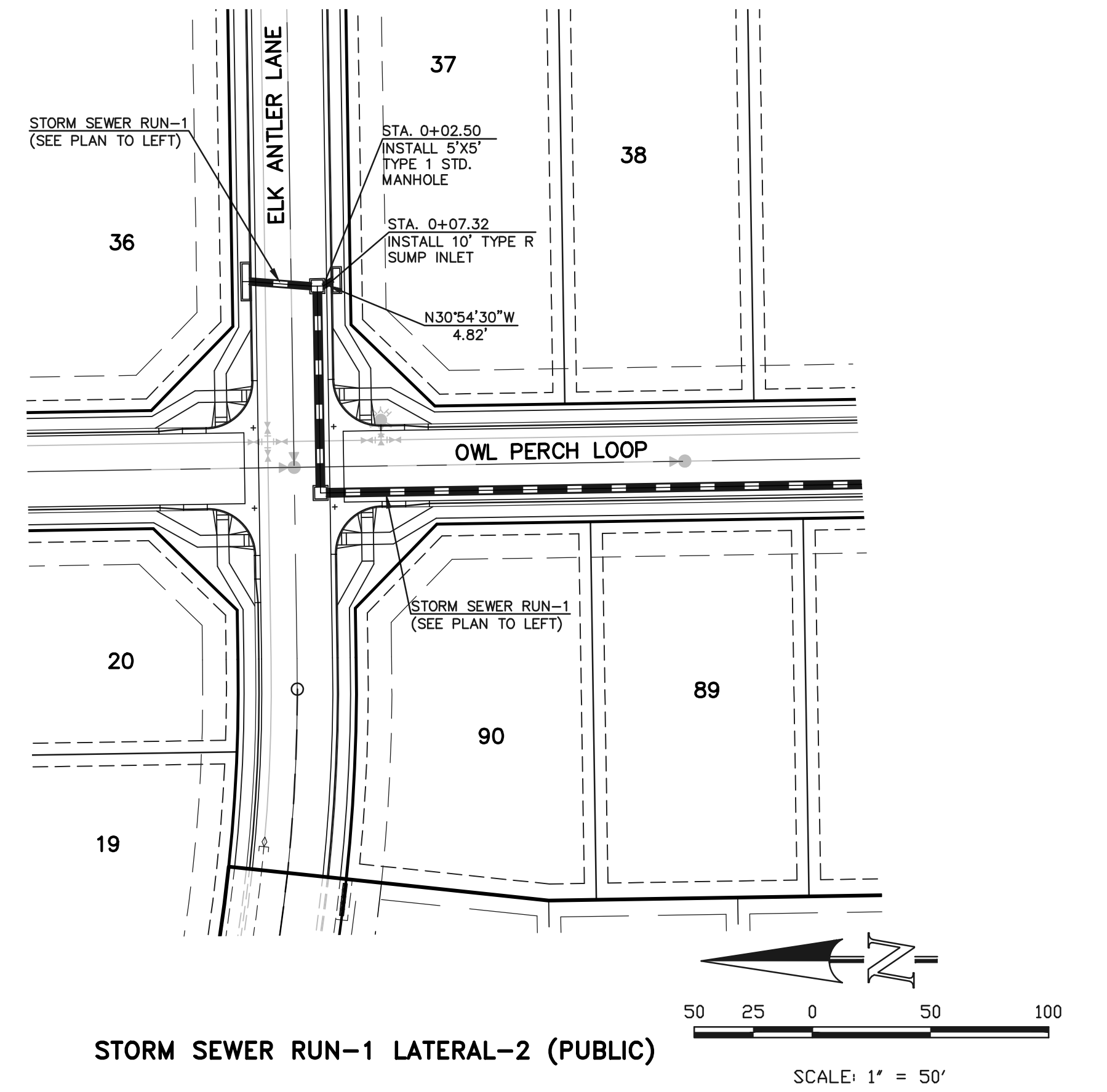
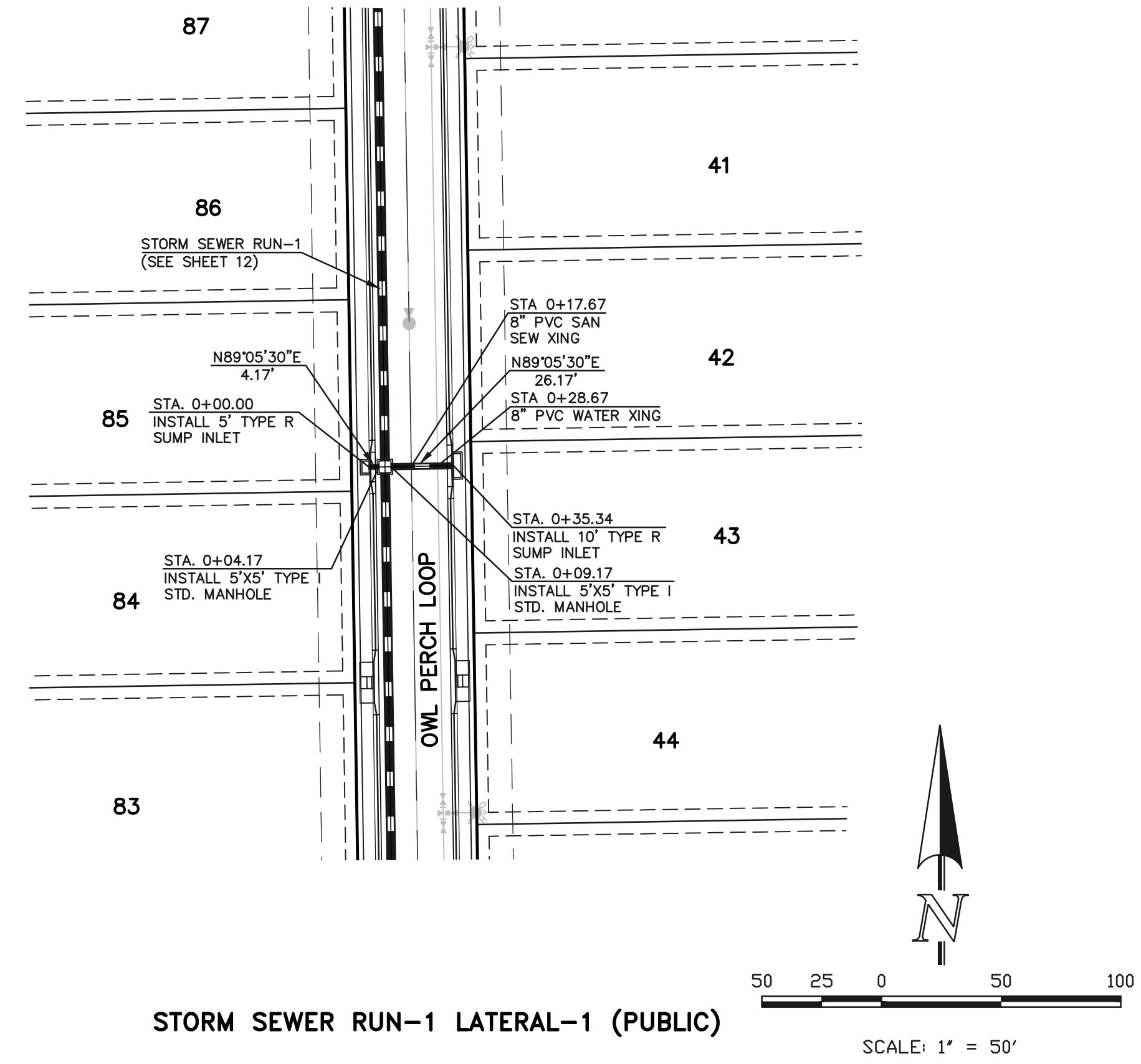
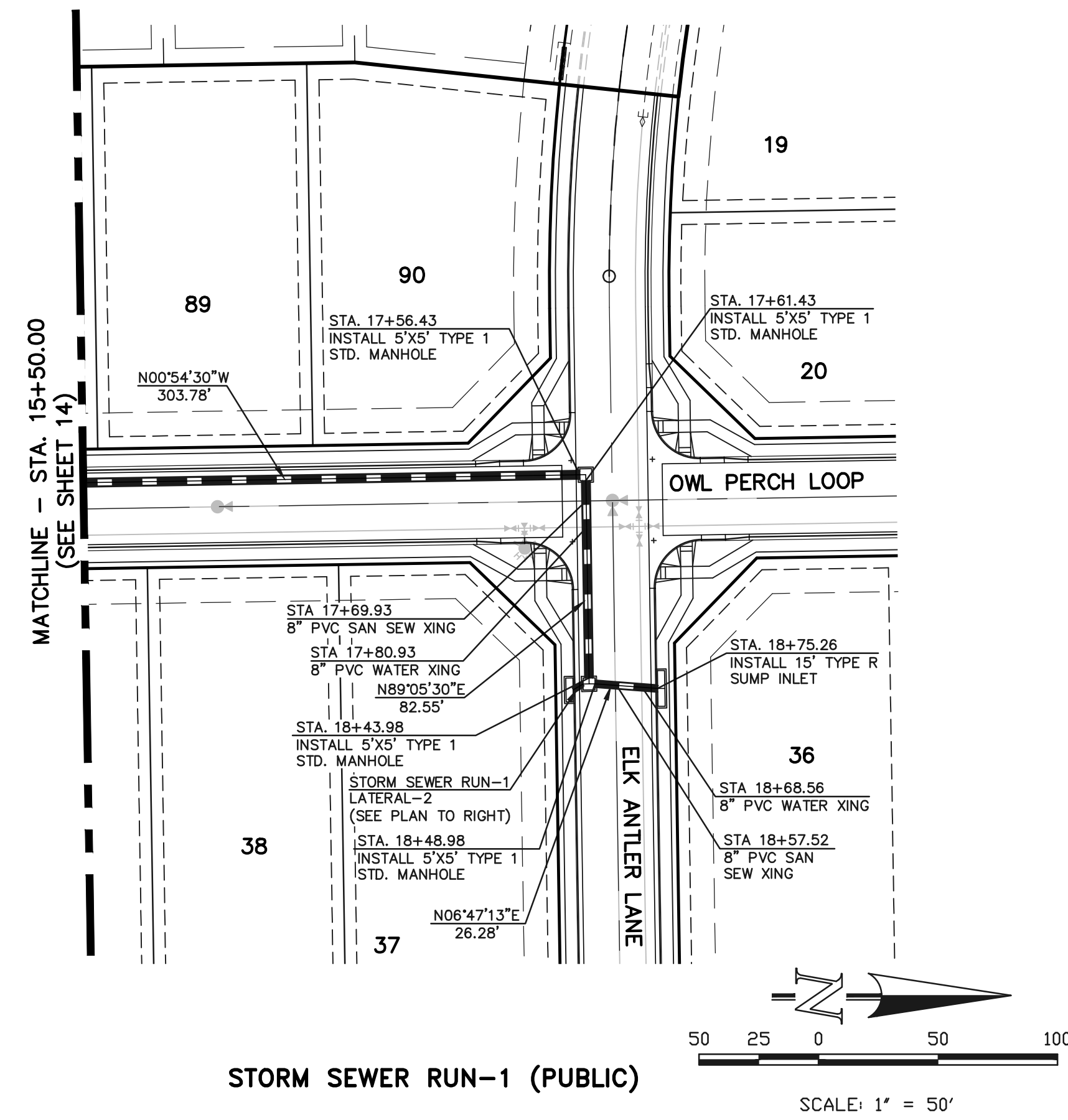
SCALE: (H) 1" = 50'  
(V) 1" = 5'

DATE: 02-25-21  
SHEET 14 OF 24  
JOB NO.: 1185.20

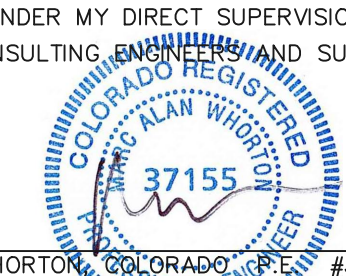



N:\118520\DRAWINGS\CONSTRUCTION\14-118520-2\A\2022.2.23.41.PLM, 1:1



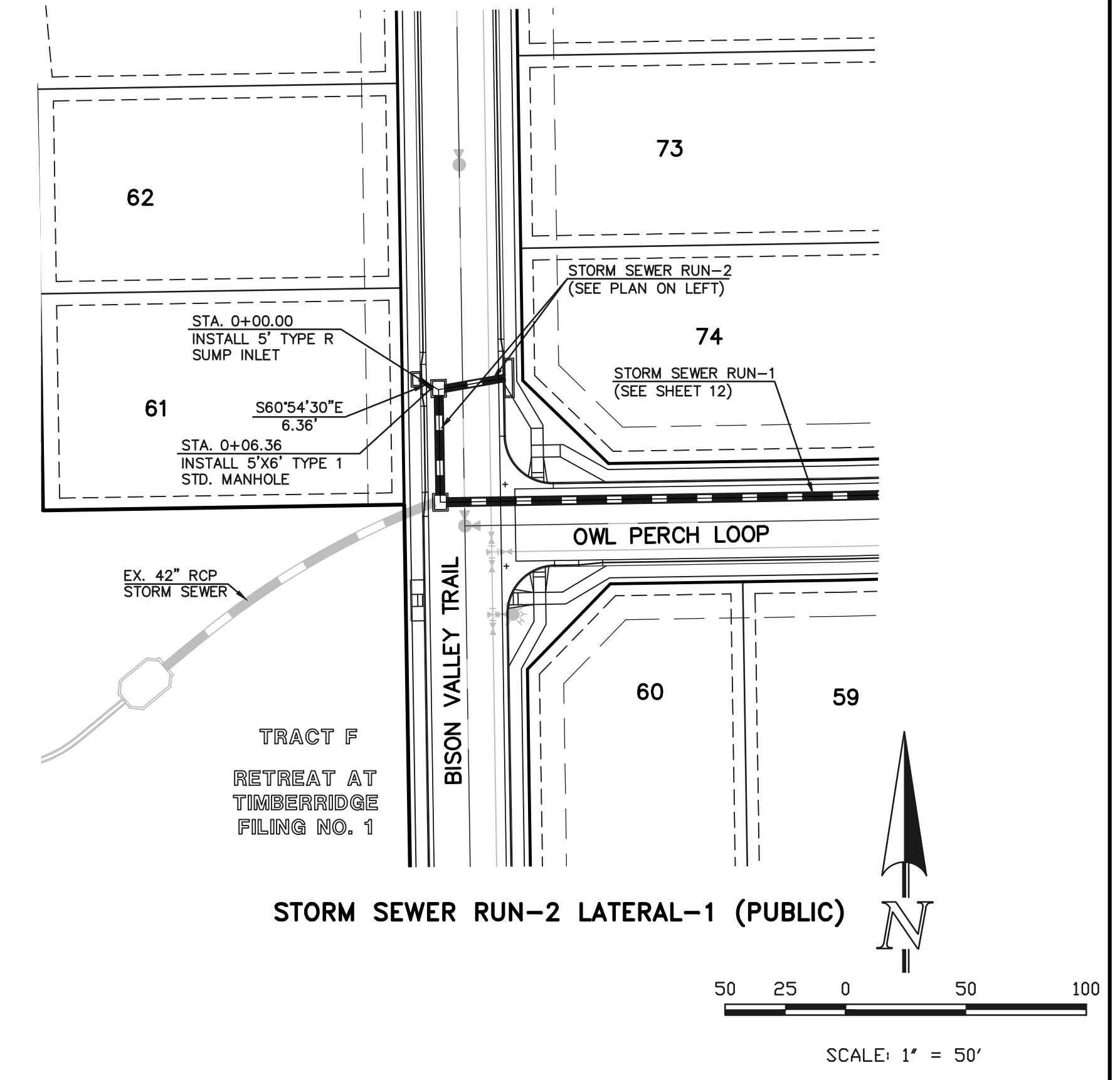
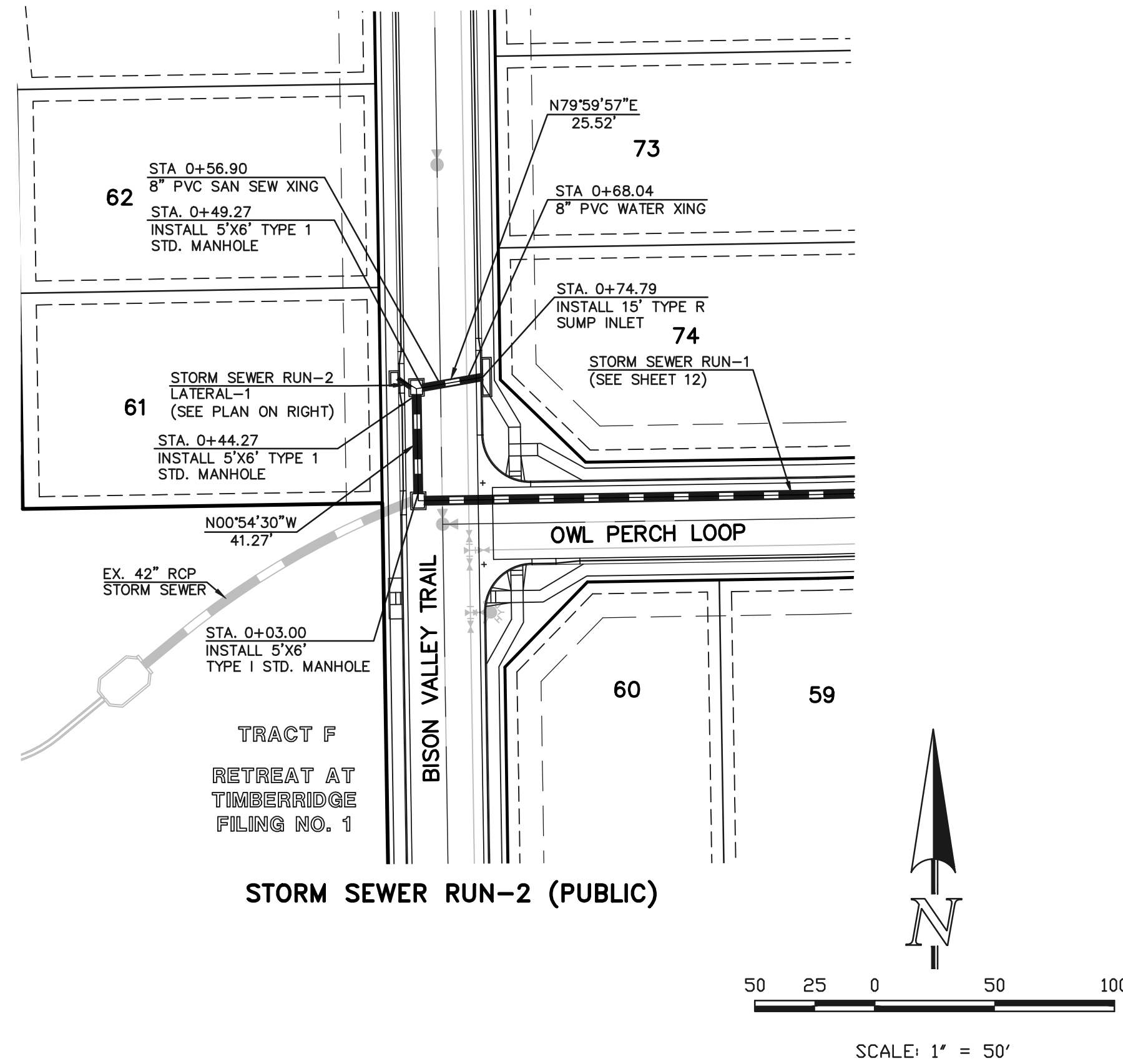
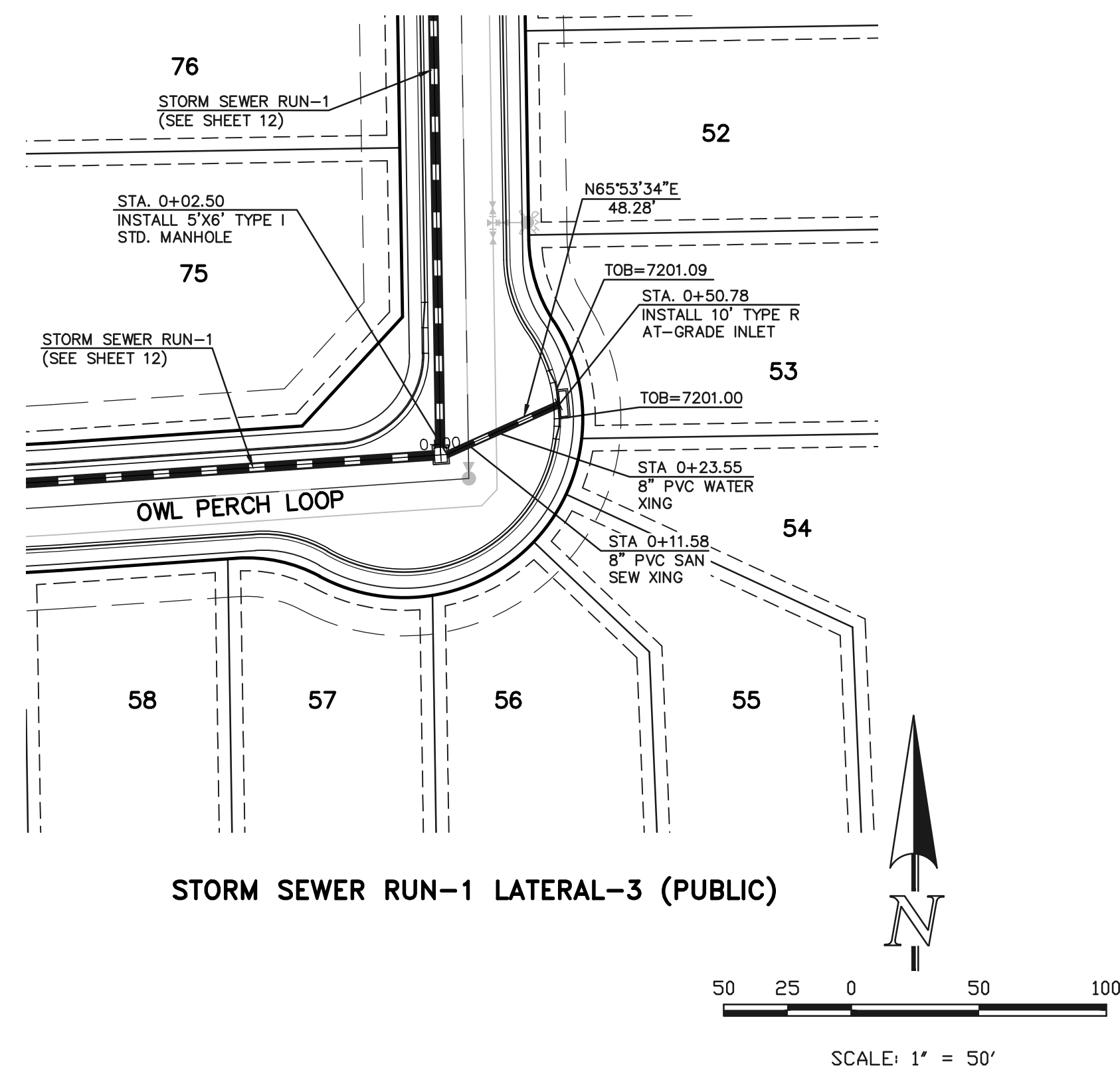


AS-BUILT  
11-30-2023

<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS <b>811</b> 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>1</td> <td>ADJUSTED STORM DESIGN FOR HGL'S</td> <td>2/4/22</td> </tr> </tbody> </table>	NO.	REVISION	DATE	1	ADJUSTED STORM DESIGN FOR HGL'S	2/4/22	<p>REVIEW:</p> <p>PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC</p> <div style="text-align: center;">  <p>MARC A. WHORTON, ENGINEER #37155</p> </div> <p>3/23/2022 DATE</p>	 <p><b>CLASSIC CONSULTING</b></p>	<p>RETREAT AT TIMBERIDGE FILING NO. 2 CONSTRUCTION PLANS PUBLIC STORM SEWER PLAN</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DESIGNED BY</td> <td>PRA</td> <td>SCALE</td> <td>DATE</td> <td>02-25-21</td> </tr> <tr> <td>DRAWN BY</td> <td>PRA</td> <td>(H) 1" = 50'</td> <td>SHEET</td> <td>15 OF 24</td> </tr> <tr> <td>CHECKED BY</td> <td>(V) 1" = 5'</td> <td>JOB NO.</td> <td colspan="2">1185.20</td> </tr> </table>	DESIGNED BY	PRA	SCALE	DATE	02-25-21	DRAWN BY	PRA	(H) 1" = 50'	SHEET	15 OF 24	CHECKED BY	(V) 1" = 5'	JOB NO.	1185.20	
NO.	REVISION	DATE																							
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CHECKED BY	(V) 1" = 5'	JOB NO.	1185.20																						

N:\118520\DRAWINGS\CONSTRUCTION\15-118520-STW-02.dwg - 2/6/2022 2:29:55 PM - 1:1





7210	7210	7190	7190	7190	7190
7200	7200	7180	7180	7180	7180
7190	7190	7170	7170	7170	7170

STORM SEWER RUN-1 LATERAL-3 (PUBLIC)

0+00

STA 0+02.50  
INSTALL 5'x6' TYPE 1 STD. MANHOLE  
INV. IN (24") = 7195.46  
INV. IN (36") = 7193.90  
INV. OUT (36") = 7193.40  
CUT = 6.04'

STA 0+50.78  
INSTALL 10' TYPE R AT-GRADE INLET  
TOB=7201.09  
MAX. CUT = 4.72'

STA 0+11.58  
8" PVC SAN SEW XING  
BOP (STM) = 7195.42  
TOP (SAN) = 7186.58  
CLEAR = 8.84'

STA 0+23.55  
8" PVC WATER XING  
BOP (STM) = 7195.65  
TOP (WTR) = 7194.15  
CLEAR = 1.50'

48.28' L.F. ~ 24" RCP STORM SEWER @ 1.89%

PROP. 100 YR HGL LINE

STORM SEWER RUN-2 (PUBLIC)

0+00

STA 0+49.27  
INSTALL 5'x6' TYPE 1 STD. MANHOLE  
INV. IN (36") = 7179.00  
INV. IN (36") = 7178.50  
INV. OUT (EX. 42") = 7178.00  
CUT = 8.00'

STA 0+56.90  
8" PVC SAN SEW XING  
BOP (STM) = 7179.80  
TOP (SAN) = 7173.75  
CLEAR = 6.05'

25.52' L.F. ~ 30" RCP STORM SEWER @ 1.00%

STA 0+68.04  
8" PVC WATER XING  
BOP (STM) = 7180.23  
TOP (WTR) = 7178.57  
CLEAR = 1.66'

41.27' L.F. ~ 36" RCP STORM SEWER @ 2.00%

PROP. 100 YR HGL LINE

STORM SEWER RUN-2 LATERAL-1 (PUBLIC)

0+00

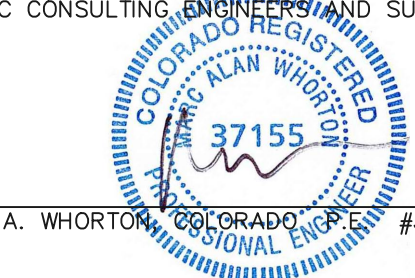

STA 0+00.00  
INSTALL 5' TYPE R SUMP INLET  
TOB = 7185.81  
INV. IN (18") = 7181.80  
CUT = 4.21'

STA 0+06.36  
INSTALL 5'x6' TYPE 1 STD. MANHOLE  
INV. IN (36") = 7180.33  
INV. IN (30") = 7180.83  
INV. OUT (30") = 7179.83  
CUT = 5.68'

6.86' L.F. ~ 18" RCP STORM SEWER @ 3.94%

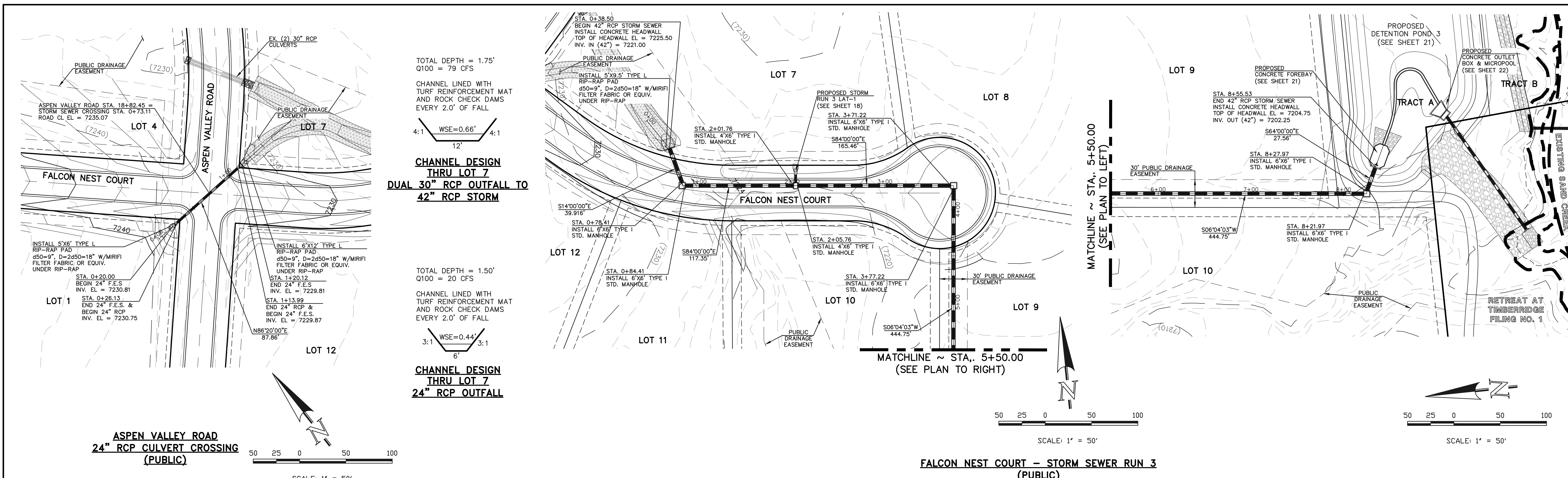
PROP. 100 YR HGL LINE

AS-BUILT  
11-30-2023

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N:\118520\DRAWINGS\CONSTRUCTION\118520-STM-03.dwg - 2/6/2022 2:35:54 PM, 1:1





TOTAL DEPTH = 1.75'  
Q100 = 79 CFS

CHANNEL LINED WITH  
TURF REINFORCEMENT MAT  
AND ROCK CHECK DAMS  
EVERY 2.0' OF FALL

4:1 WSE=0.66' 4:1  
12'

**CHANNEL DESIGN  
THRU LOT 7  
DUAL 30\"/>**

TOTAL DEPTH = 1.50'  
Q100 = 20 CFS

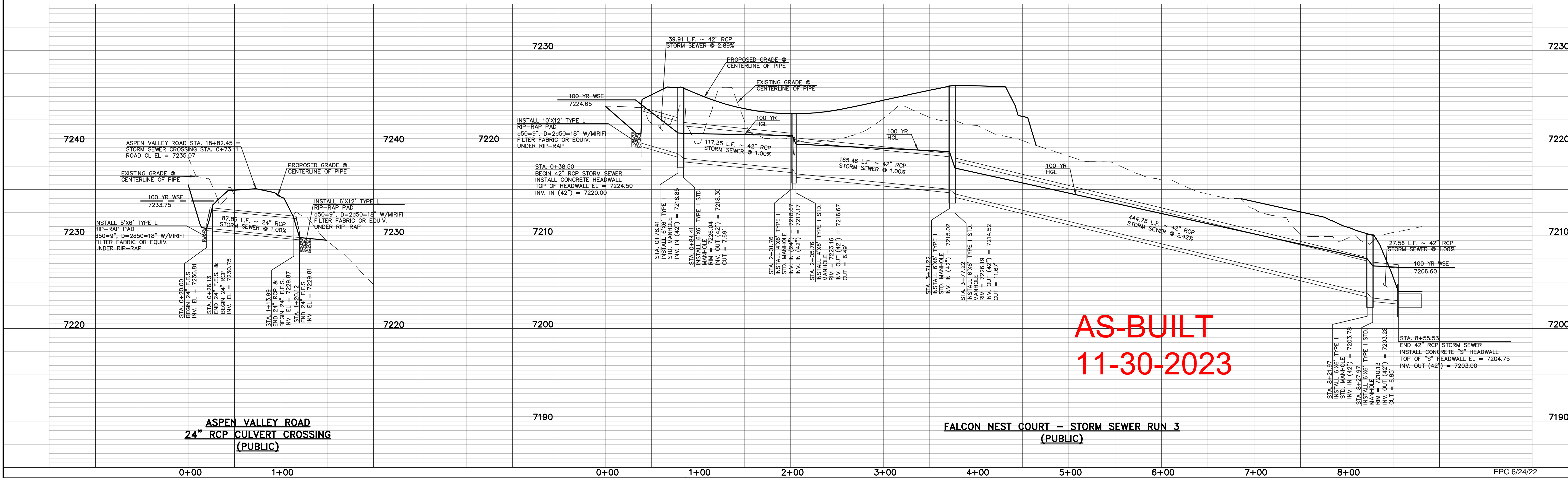
CHANNEL LINED WITH  
TURF REINFORCEMENT MAT  
AND ROCK CHECK DAMS  
EVERY 2.0' OF FALL

3:1 WSE=0.44' 3:1  
6'

**CHANNEL DESIGN  
THRU LOT 7  
24\"/>**

**ASPEN VALLEY ROAD  
24\"/>**

**FALCON NEST COURT - STORM SEWER RUN 3  
(PUBLIC)**



**AS-BUILT  
11-30-2023**

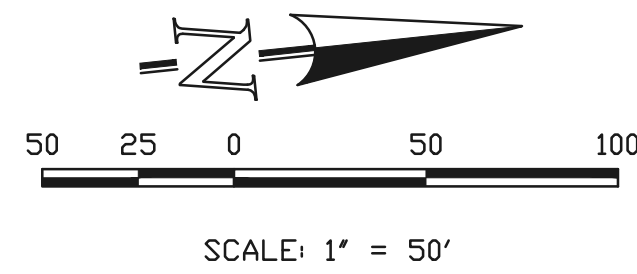
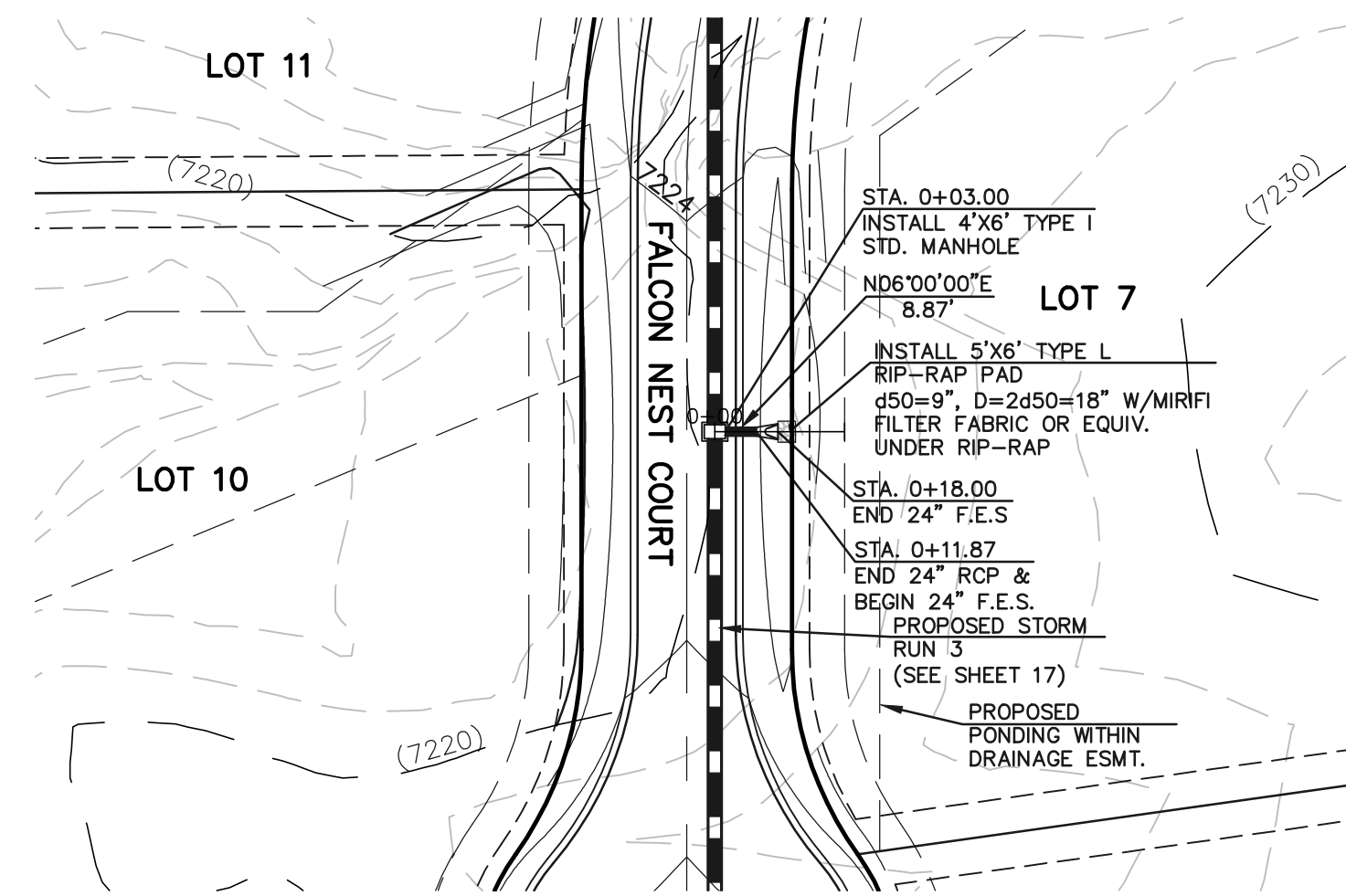
**ASPEN VALLEY ROAD  
24\"/>**

**FALCON NEST COURT - STORM SEWER RUN 3  
(PUBLIC)**

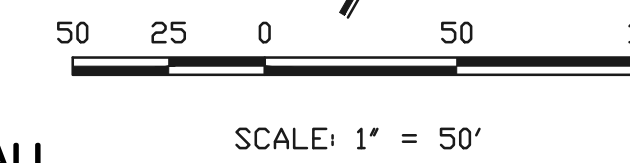
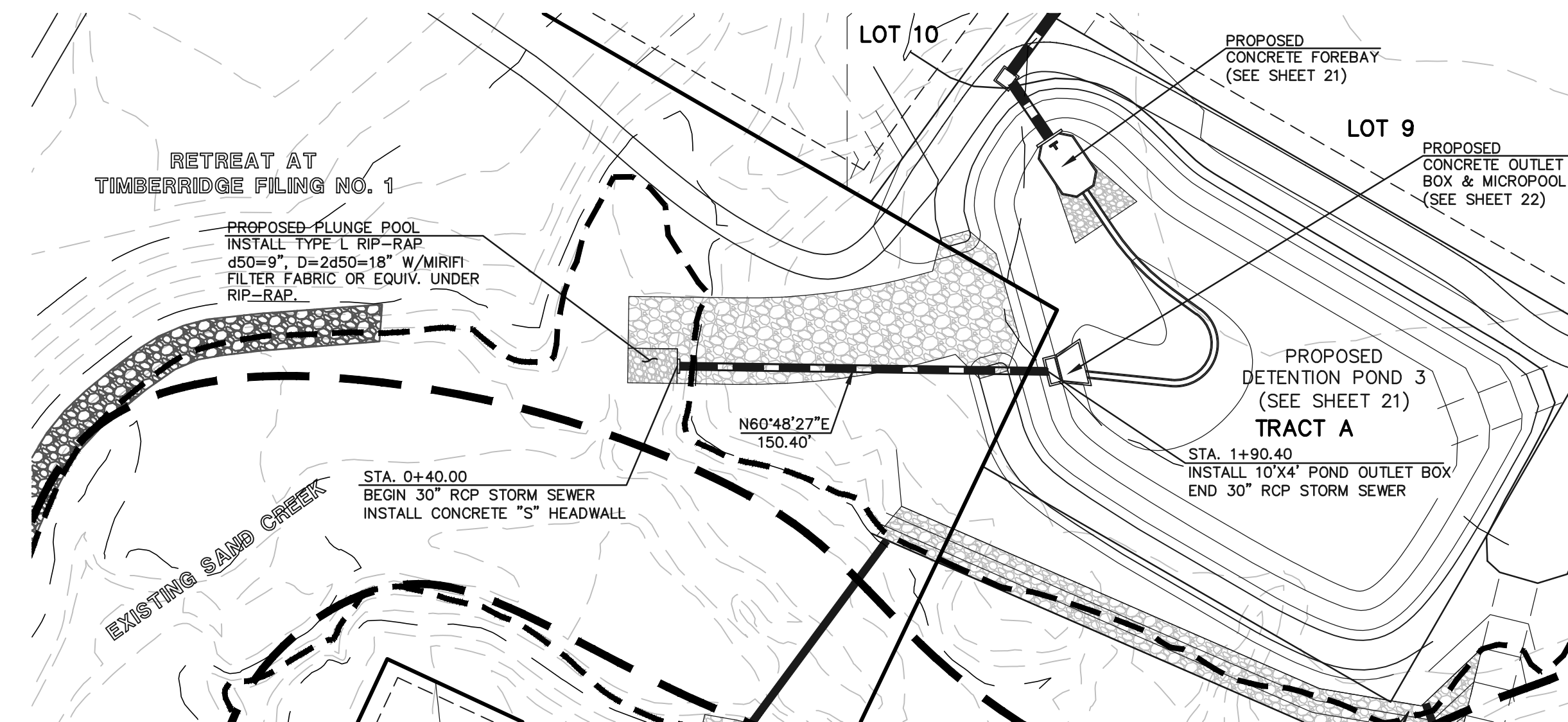
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	<p>CLASSIC CONSULTING</p> <p>619 N. Cascade Avenue, Suite 200 (719)785-0790 Colorado Springs, Colorado 80903 (719)785-0799(Fax)</p>				

N:\118520\DRAWINGS\CONSTRUCTION\17-118520-STW-04.dwg - 2/6/2022 4:06:32 PM, 1:1

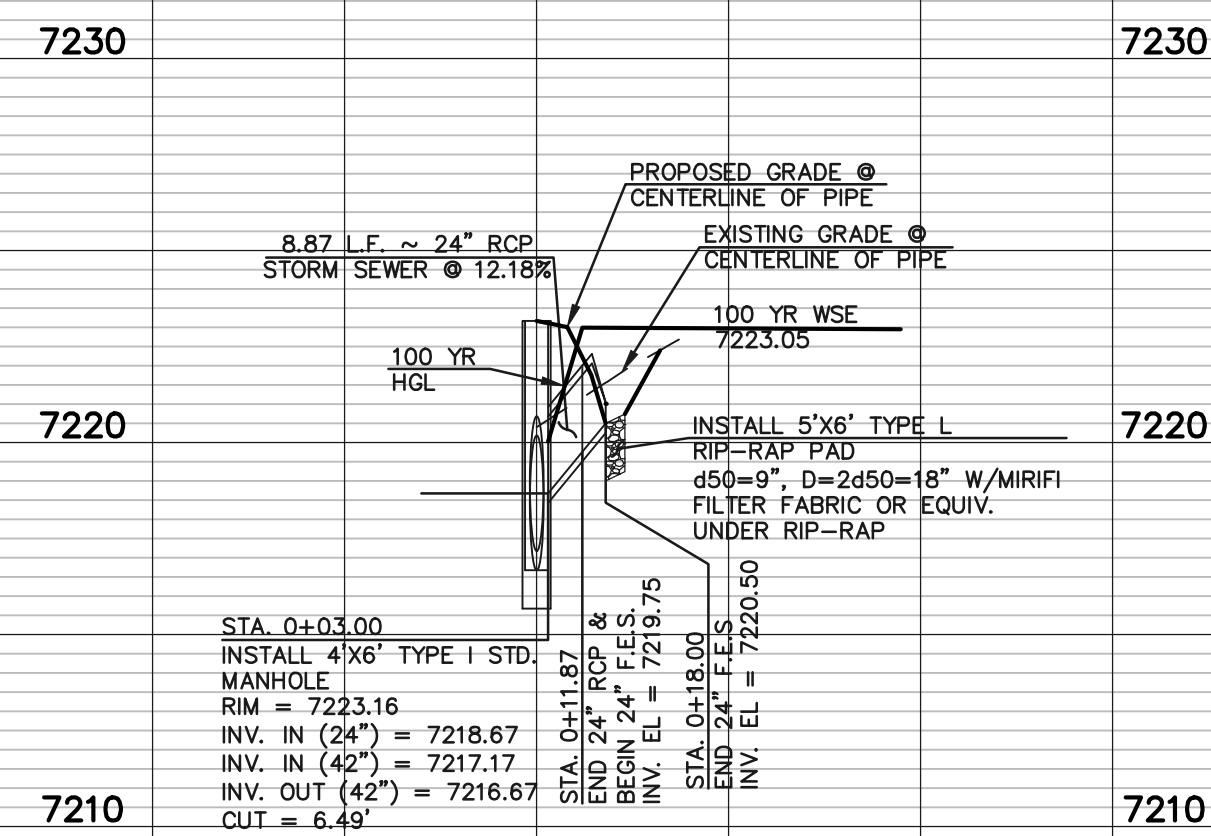




**FALCON NEST COURT – STORM SEWER RUN 3 – LATERAL 1  
(PUBLIC)**

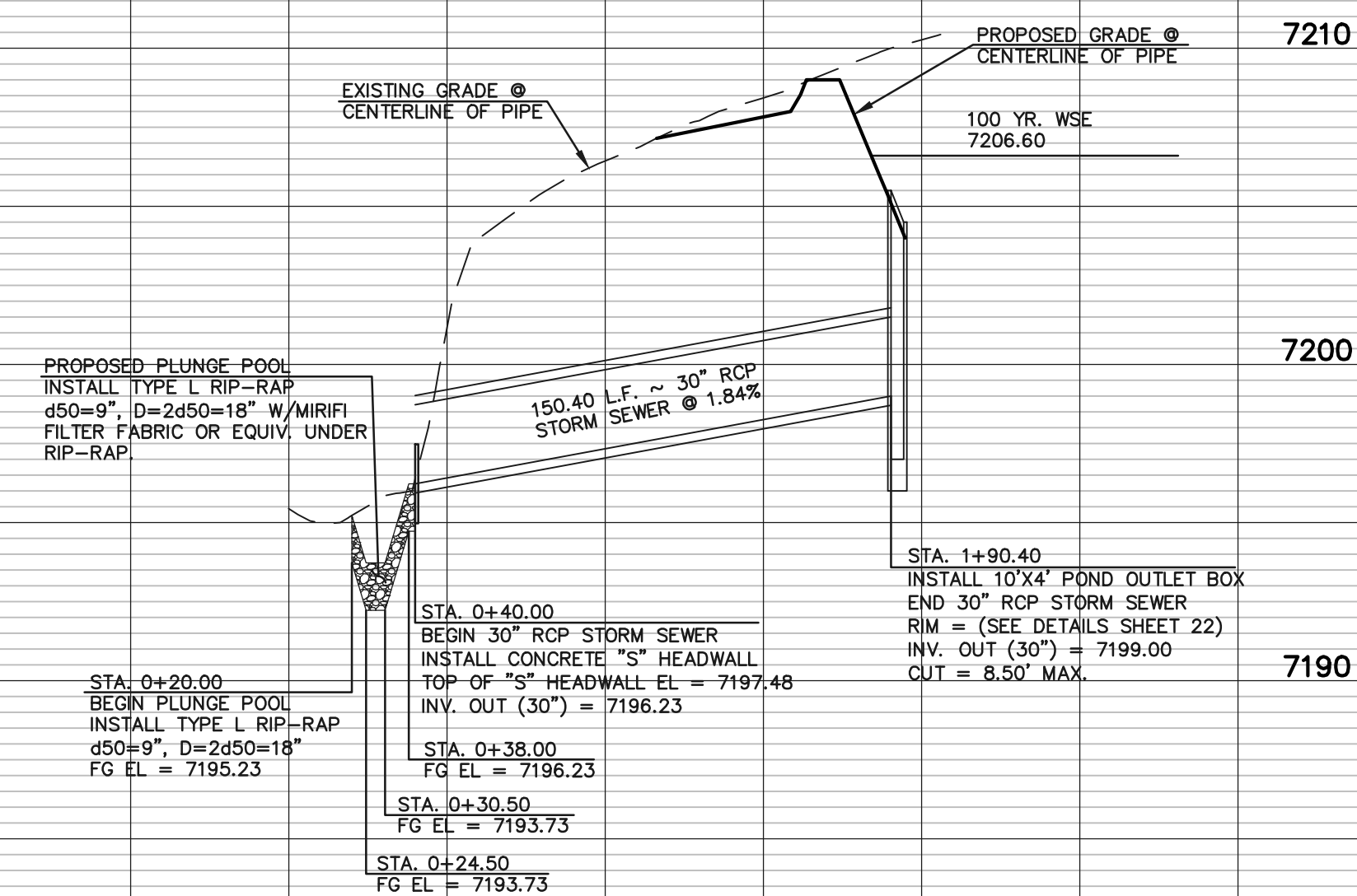


**DETENTION POND 3 STORM SEWER OUTFALL  
(PUBLIC)**



**FALCON NEST COURT – STORM SEWER RUN 3 – LATERAL 1  
(PUBLIC)**

0+00



**DETENTION POND 3 STORM SEWER OUTFALL  
(PUBLIC)**

0+00

1+00

2+00

**AS-BUILT  
11-30-2023**

EPC 6/24/22

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NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	2/4/22

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

**MARC A. WHORTON**  
REGISTERED PROFESSIONAL ENGINEER  
#37155

3/23/2022  
DATE

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

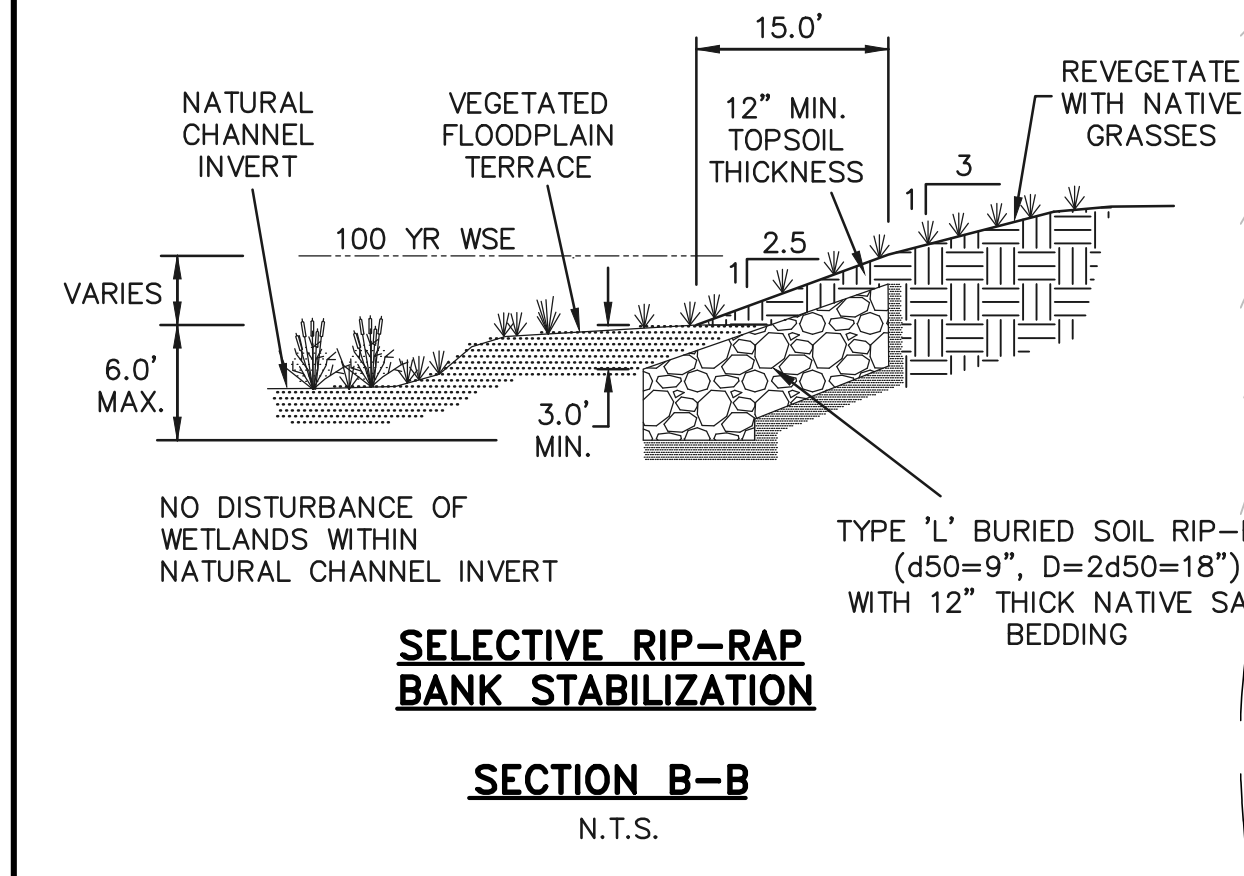
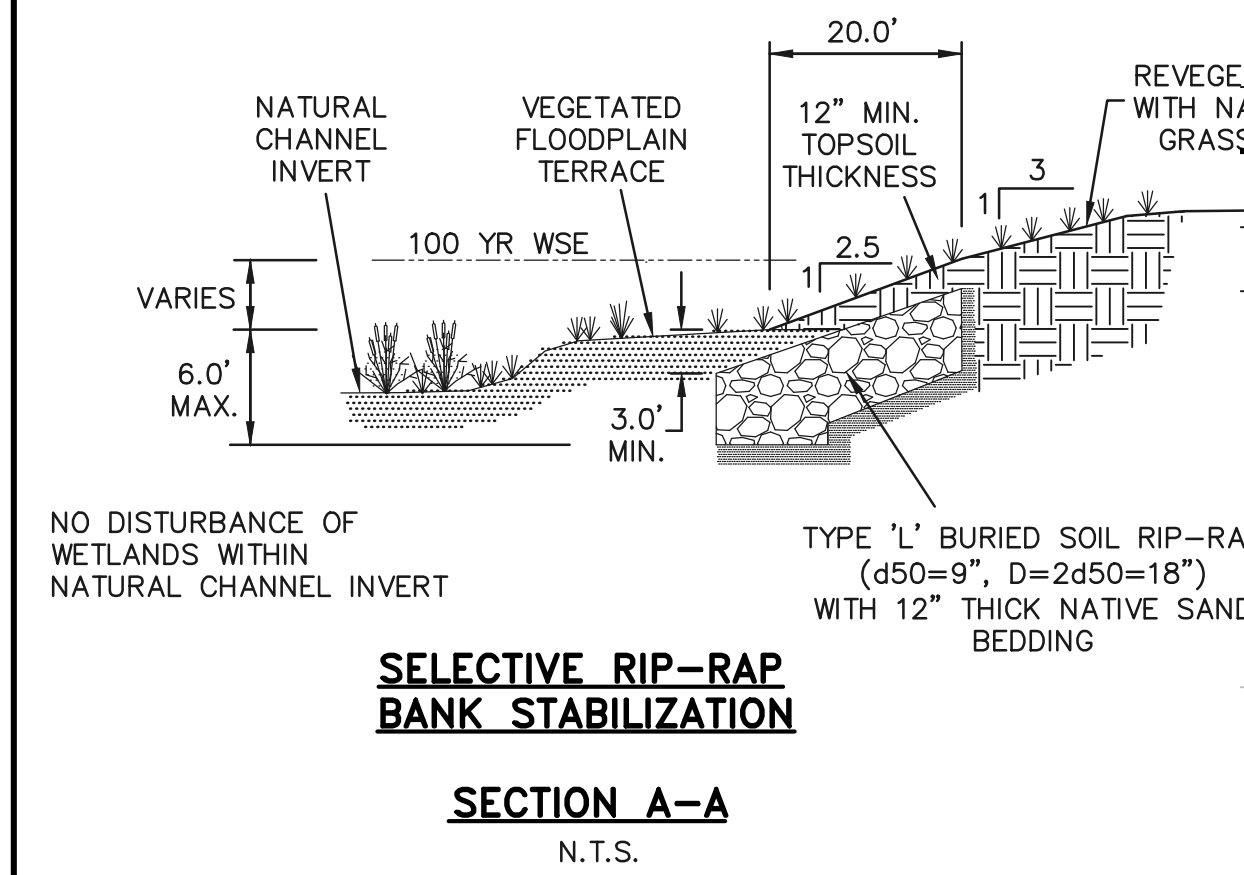
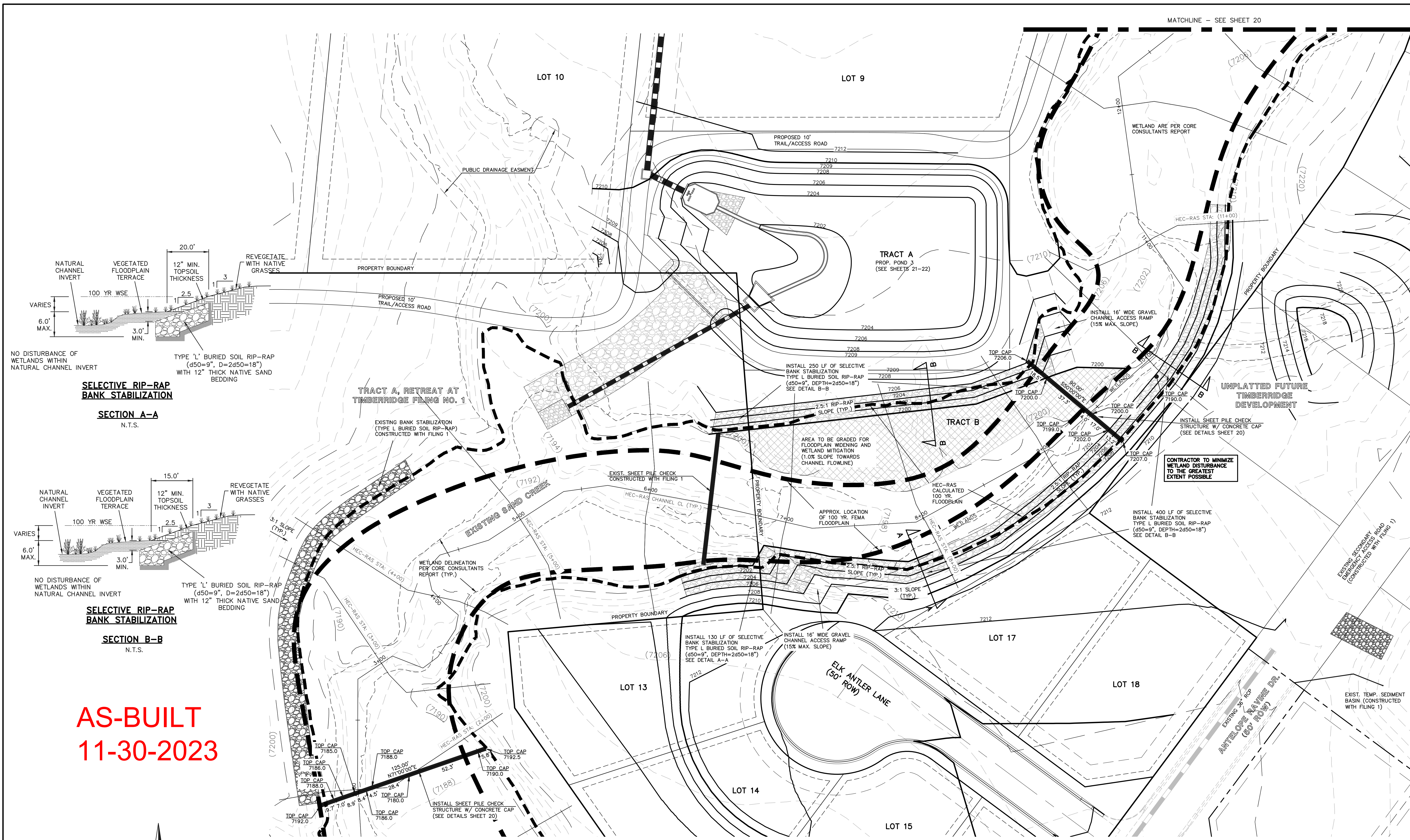
(719) 785-0790  
(719) 785-0799 (Fax)

<b>RETREAT AT TIMBERIDGE FILING NO. 2 CONSTRUCTION PLANS STORM SEWER PLAN</b>			
DESIGNED BY	PRA	SCALE	DATE 04-01-21
DRAWN BY	PRA	(H) 1" = 50'	SHEET 18 OF 24
CHECKED BY	(V) 1" = 5'	JOB NO.	1185.20

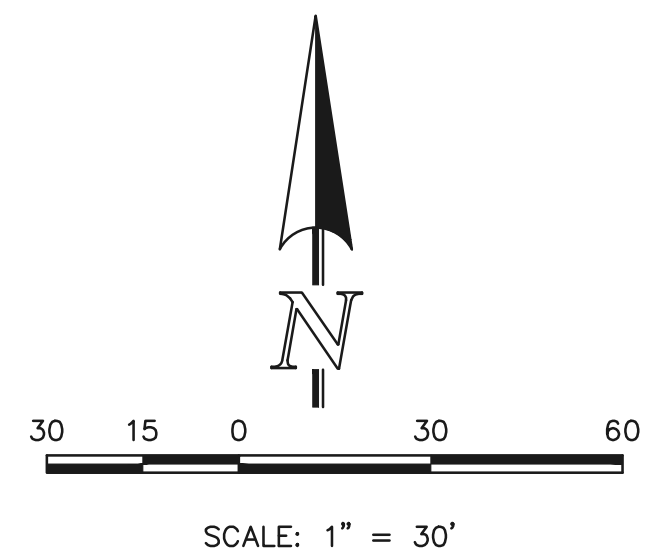


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**AS-BUILT**  
**11-30-2023**



CHECK STRUCTURE #1

FLOODPLAIN WIDENING, SELECTIVE BANK STABILIZATION & CHECK STRUCTURE #2

EPC 6/24/22

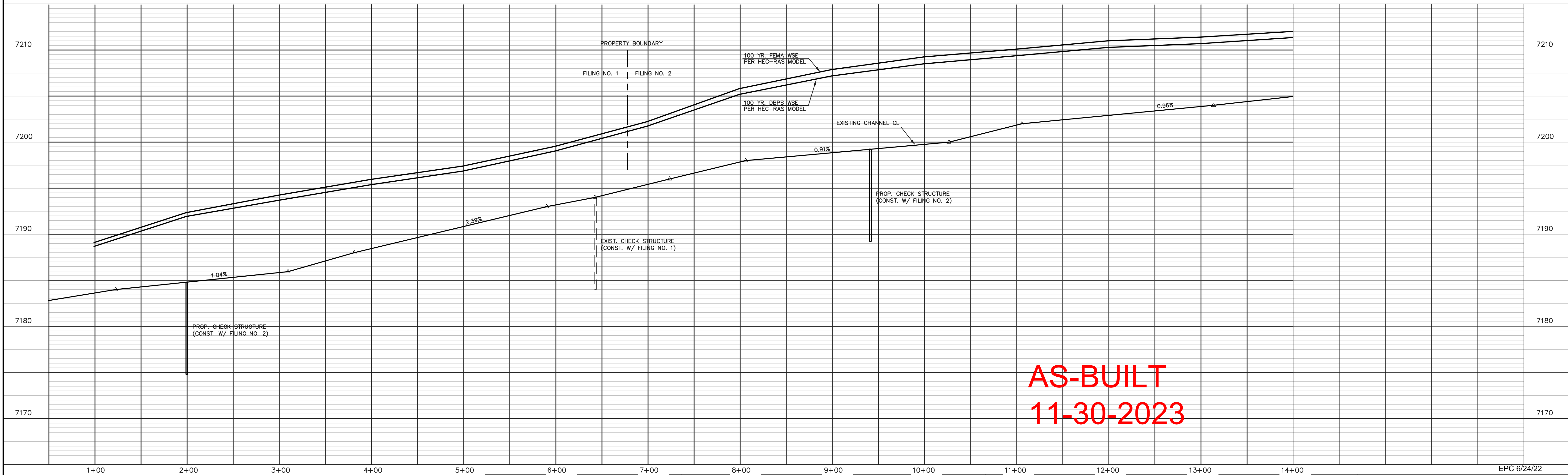
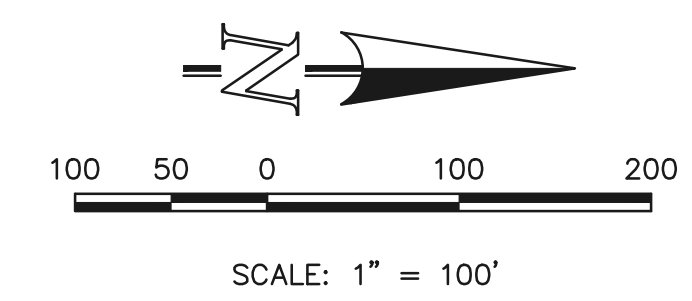
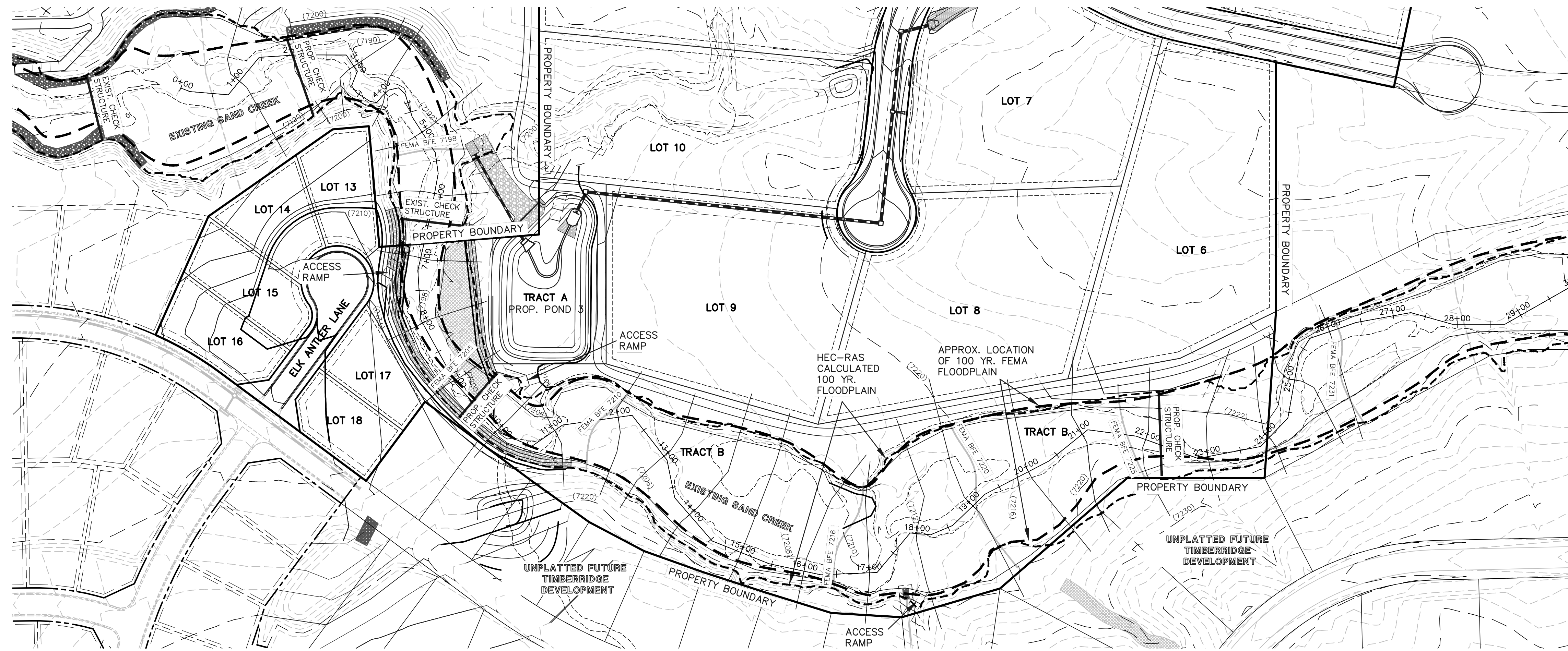
<p>48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS</p> <p><b>811</b></p> <p>UTILITY NOTIFICATION CENTER OF COLORADO IT'S THE LAW</p> <p>THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE 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>1 REVISED PER COUNTY COMMENTS 2/7/22</p> <p>2 REVISED PER COUNTY COMMENTS 3/18/22</p> <p>3 ADDED EAST SIDE CHANNEL ACCESS RAMPS 5/18/22</p>	<p>DATE</p> <p>2/7/22</p> <p>3/18/22</p> <p>5/18/22</p>	<p>REVIEW:</p> <p>PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERING AND SURVEYORS, LLC</p> <p>MARC A. WHORTON, COLORADO REGISTERED PROFESSIONAL ENGINEER #37155</p>	<p>DATE</p> <p>5/19/2022</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>RETREAT AT TIMBERRIDGE FILING NO. 2 CONSTRUCTION PLANS</p> <p>CHECK STRUCTURES AND SELECTIVE BANK STABILIZATION</p> <p>DESIGNED BY MAW SCALE DATE 4-5-21</p> <p>DRAWN BY MAW (H) 1"= 30' SHEET 19 OF 24</p> <p>CHECKED BY (V) 1"= N/A JOB NO. 1185.20</p>
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N:\118520\DRAWINGS\CONSTRUCTION\19-20\_118520-CHANNEL-01\_(002).dwg, 5/19/2022 8:48:53 AM, 1:1









**AS-BUILT**  
**11-30-2023**

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NO.	REVISION	DATE
1	ADDED EAST SIDE CHANNEL ACCESS RAMPS	5/18/22

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

MARC A. WHORTON, REGISTERED PROFESSIONAL ENGINEER #37155

5/19/2022 DATE



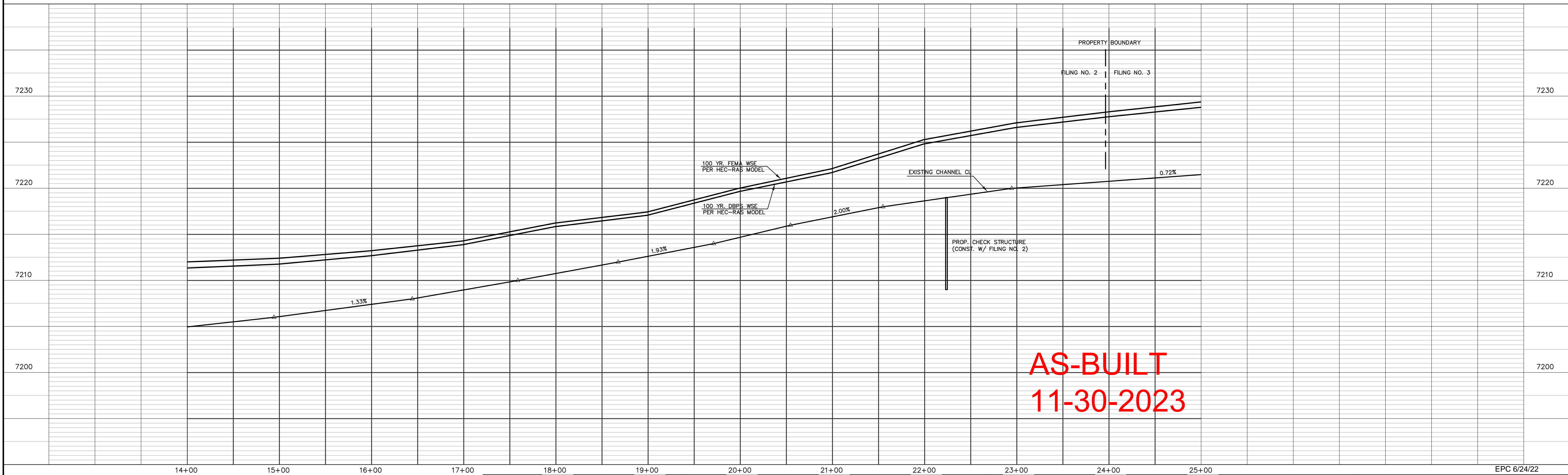
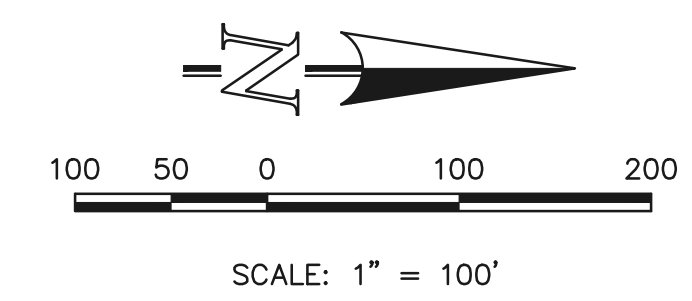
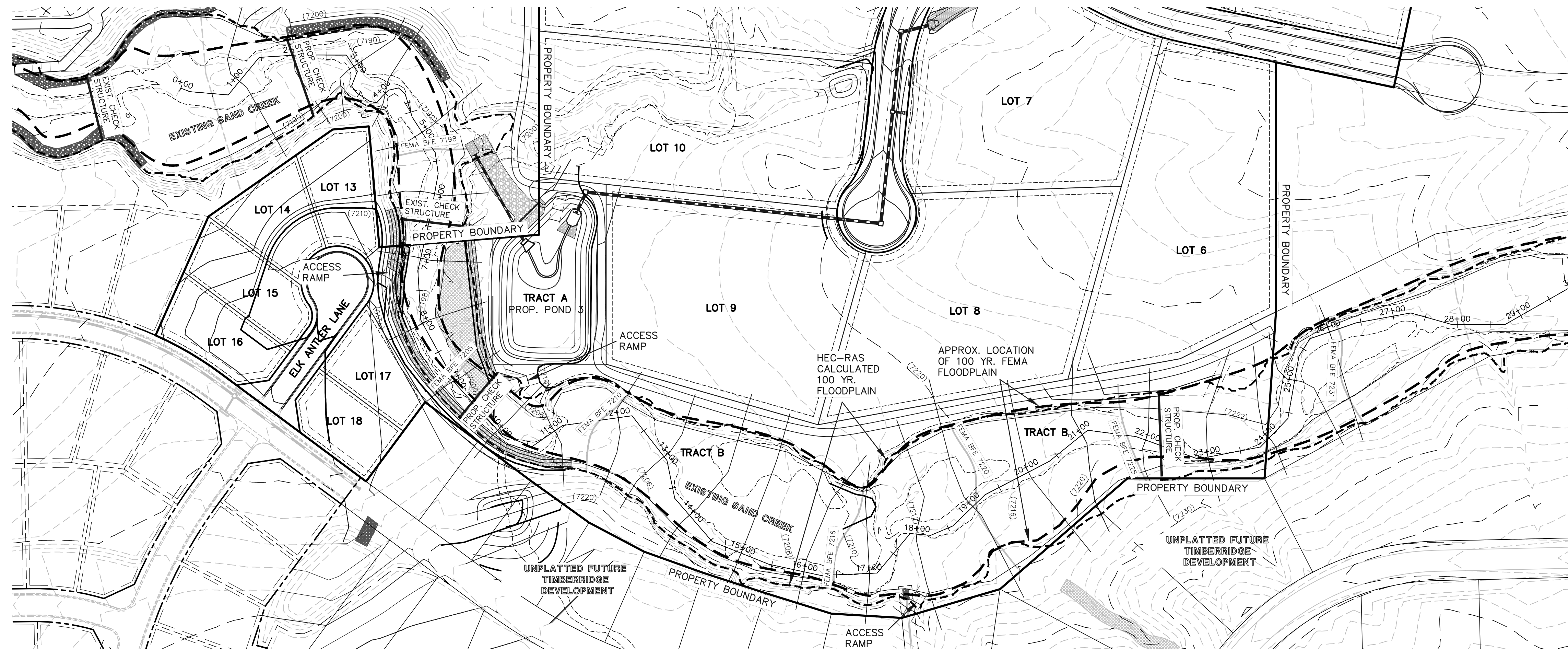
RETREAT AT TIMBERRIDGE FILING NO. 2  
CONSTRUCTION PLANS  
HEC-RAS ANALYSIS  
CHANNEL CL PROFILE (STA: 1+00 - 14+00)

DESIGNED BY	MAW	SCALE	DATE	10-25-21
DRAWN BY	MAW	(H) 1" = 50'	SHEET	20A OF 24
CHECKED BY	(V) 1" = N/A	JOB NO.	1185.20	

EPC 6/24/22

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**AS-BUILT**  
**11-30-2023**

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

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NO.	REVISION	DATE
1	ADDED EAST SIDE CHANNEL ACCESS RAMPS	5/18/22

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

MARC A. WHORTON, REGISTERED PROFESSIONAL ENGINEER #37155

5/19/2022 DATE



RETREAT AT TIMBERRIDGE FILING NO. 2  
CONSTRUCTION PLANS  
HEC-RAS ANALYSIS  
CHANNEL CL PROFILE (STA: 14+00 - 25+00)

DESIGNED BY: MAW  
DRAWN BY: MAW  
CHECKED BY: (V)

SCALE: (H) 1" = 50'  
(V) 1" = N/A

DATE: 10-25-21  
SHEET 20B OF 24  
JOB NO. 1185.20

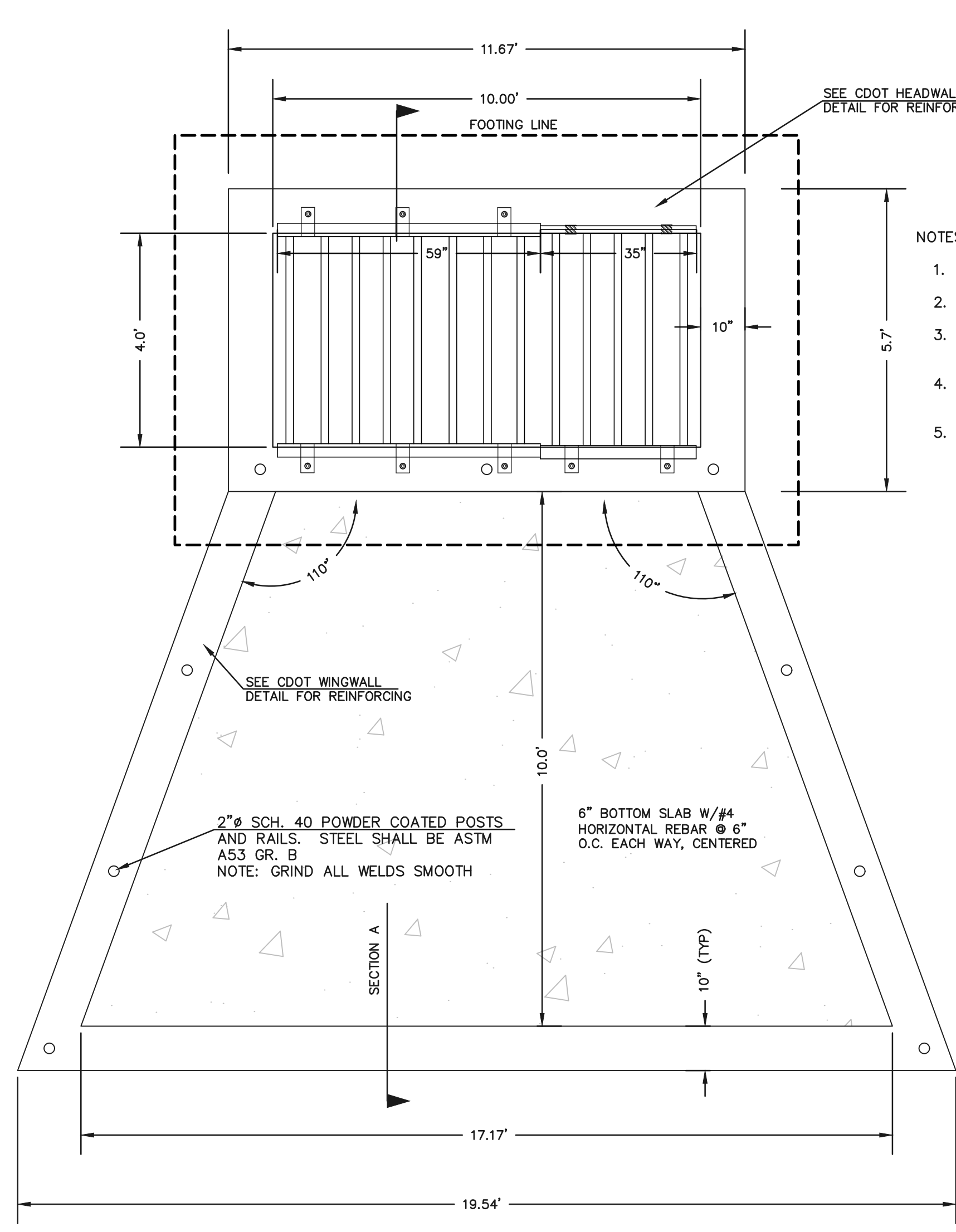
EPC 6/24/22

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**CONCRETE MICROPOOL**  
SCALE 1" = 2'

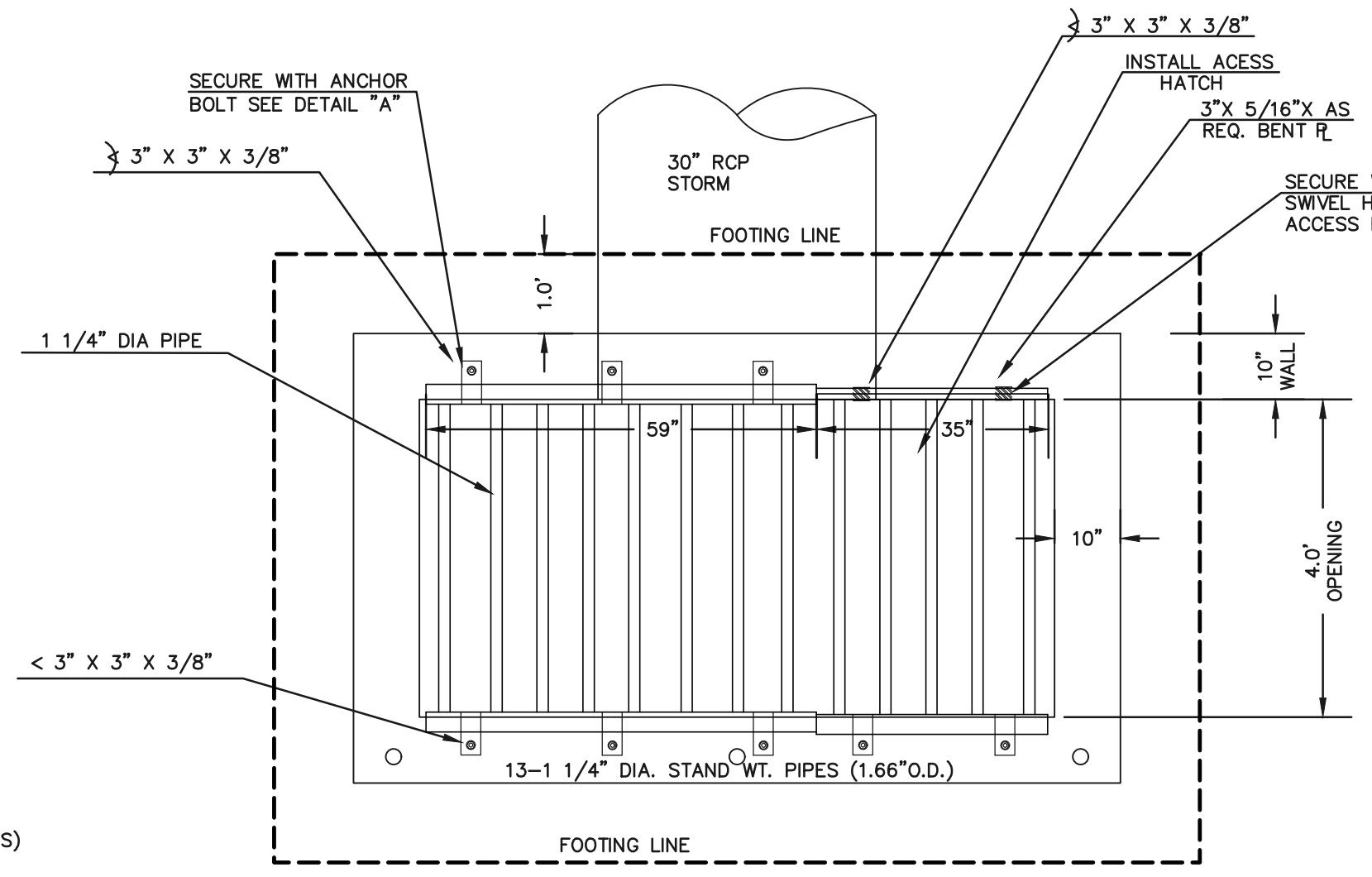
- NOTES:
1. WELD PLATES MAY BE SUBSTITUTED FOR PIPE EMBEDMENT. DESIGN CRITERIA SHALL BE IN ACCORDANCE WITH AASHTO STANDARDS.
  2. HANDRAIL DESIGN SHALL BE COMPATIBLE WITH THE DESIGN OF THE WINGWALLS AND HEADWALLS.
  3. RAILING POSTS SHALL BE SET TO NORMAL TO GRADE. RAILS SHALL RUN PARALLEL TO THE SLOPES OF TOPS OF THE WALLS.
  4. ALL RAILS SHALL HAVE EXPANSION JOINTS SPACED AT 40'-0" MAX. JOINT ENDS SHALL BE FREE OF ANY SHARP EDGES OR CORNERS.

(ALL MATERIALS PER EL PASO COUNTY SPECIFICATIONS)

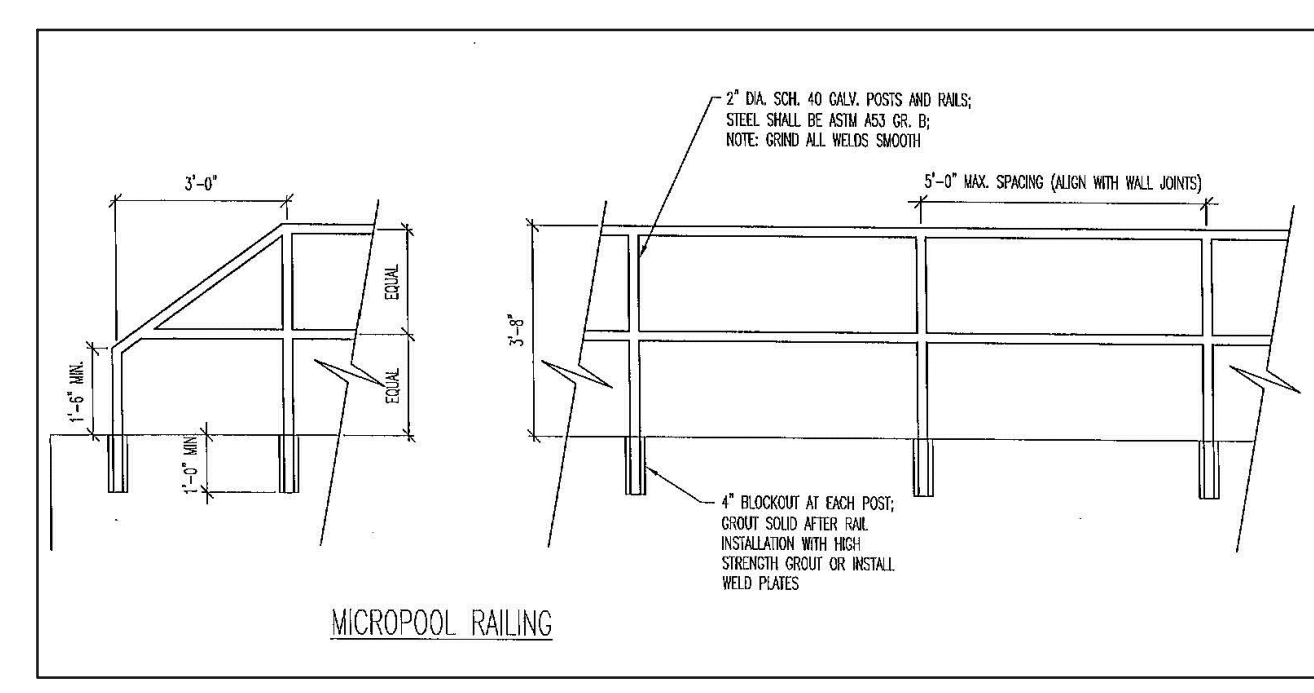
- ORIFICE PLATE NOTES:
1. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE.
  2. BOLT PLATE TO CONCRETE 12" MAX. ON CENTER

- EURV AND WQCV TRASH RACKS:
1. WELL-SCREEN TRASH RACKS SHALL BE POWDER COATED STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
  2. BAR GRATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
  3. TRASH RACK OPEN AREAS ARE FOR SPECIFIED TRASH RACK MATERIALS. TOTAL TRASH RACK SIZE MAY NEED TO BE ADJUSTED FOR MATERIALS HAVING DIFFERENT OPEN AREA/ GROSS AREA RATIO (R VALUE).
  4. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF RACK.

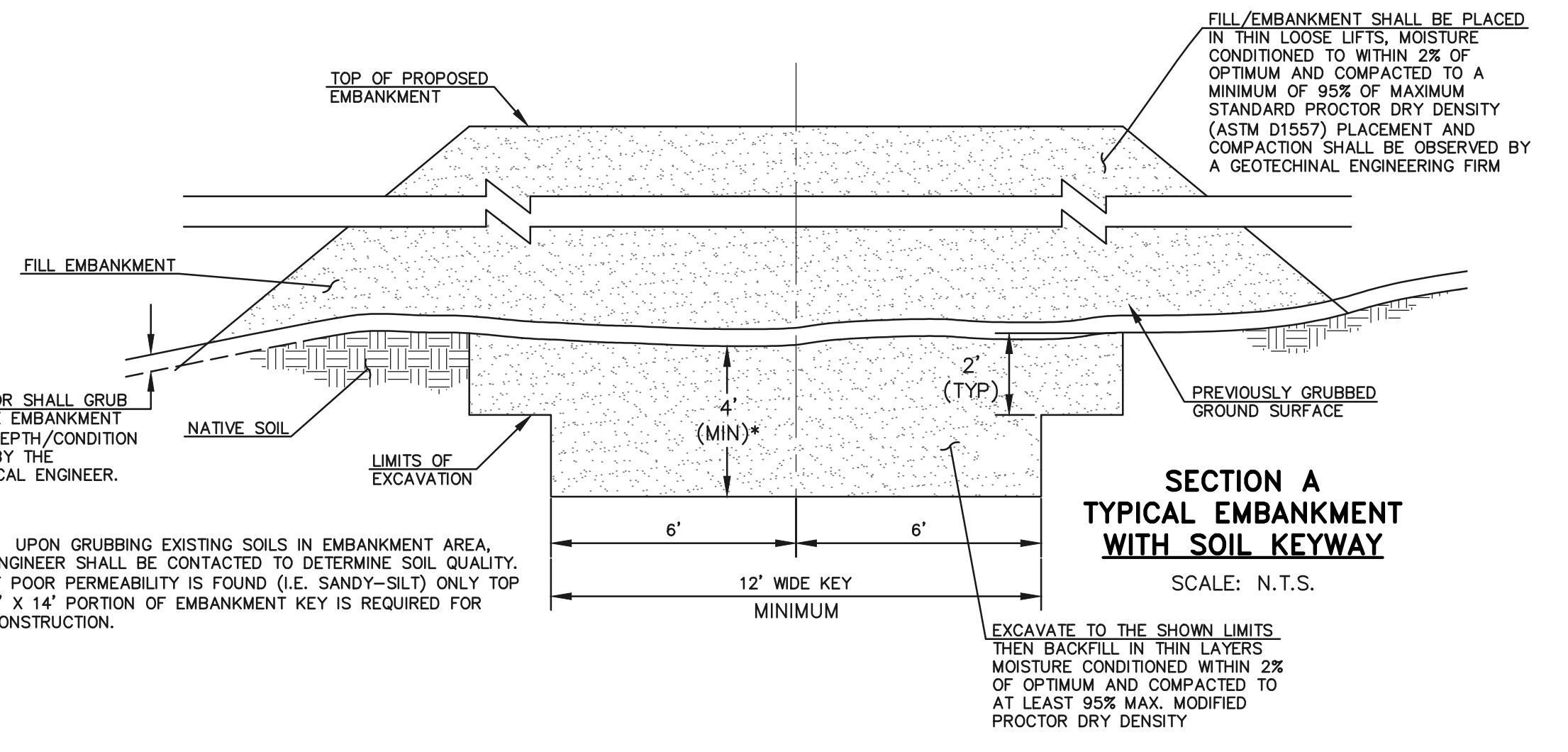
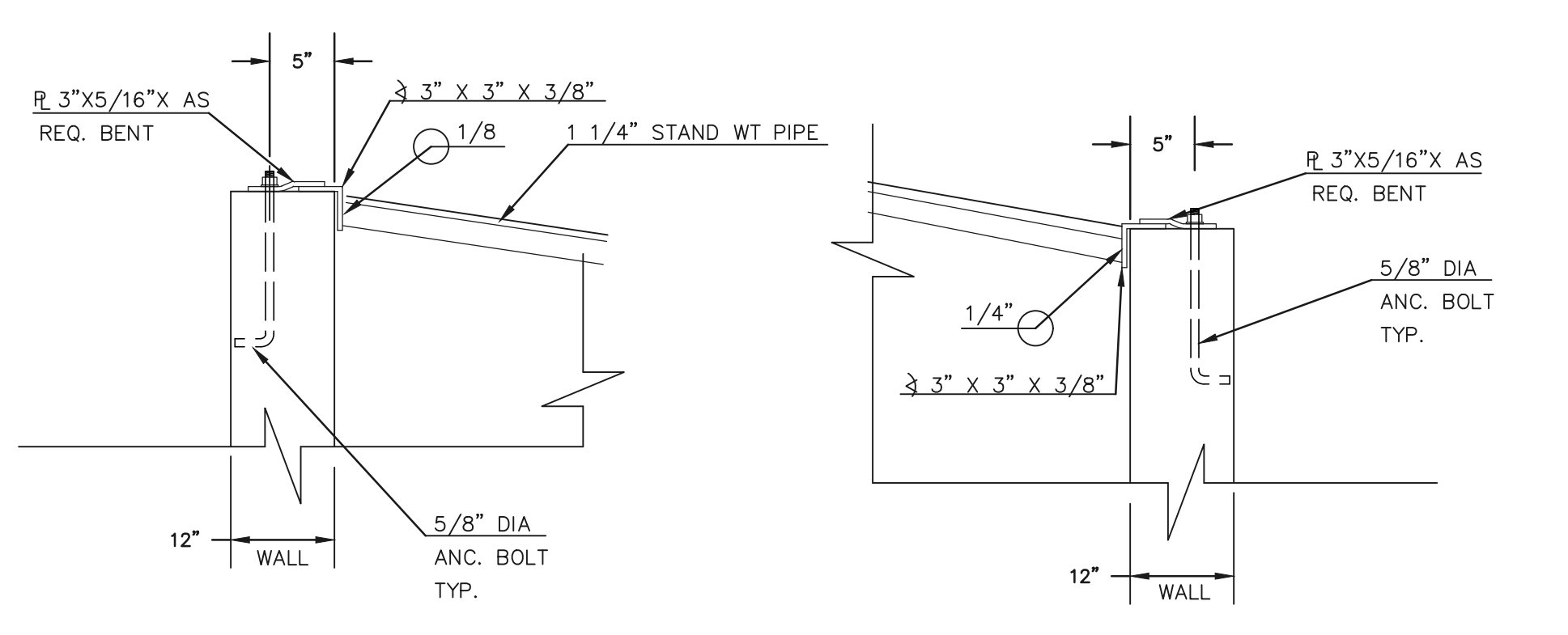
- OVERFLOW TRASH RACKS:
1. ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS
  2. TRASH RACKS SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL TRASH RACKS SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.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



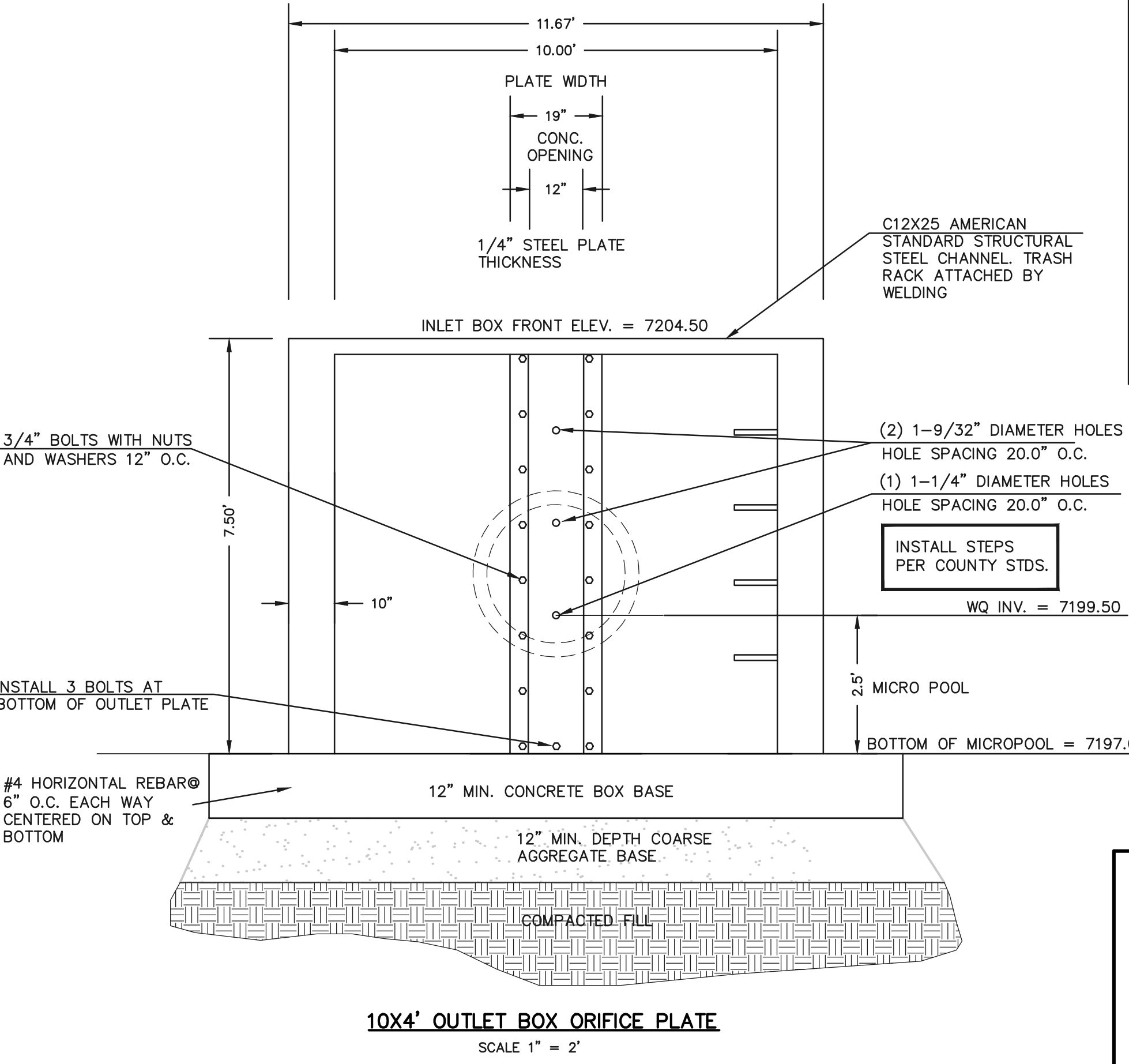
**10'X4' OUTLET BOX OVERFLOW TRASH RACK**  
SCALE 1" = 2'



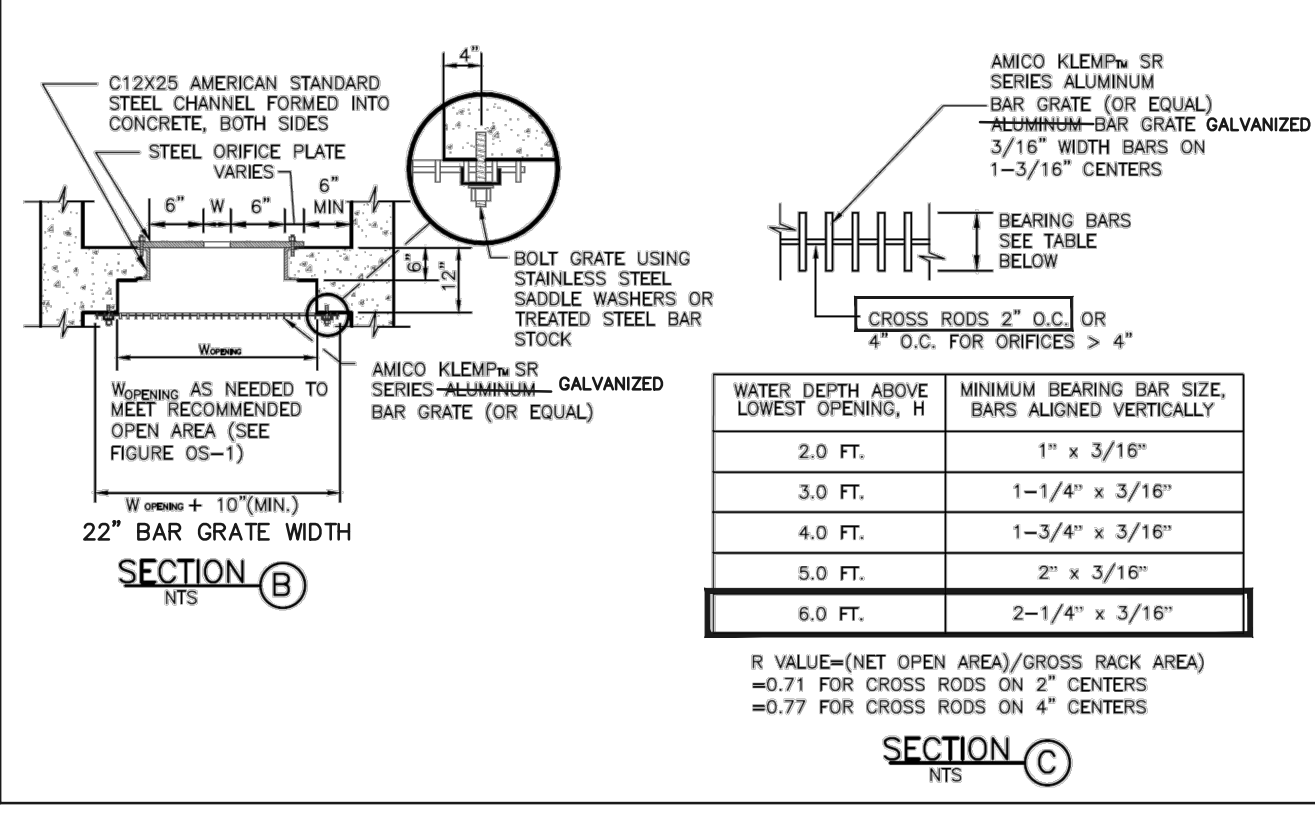
**OUTLET BOX RAILING**  
N.T.S.



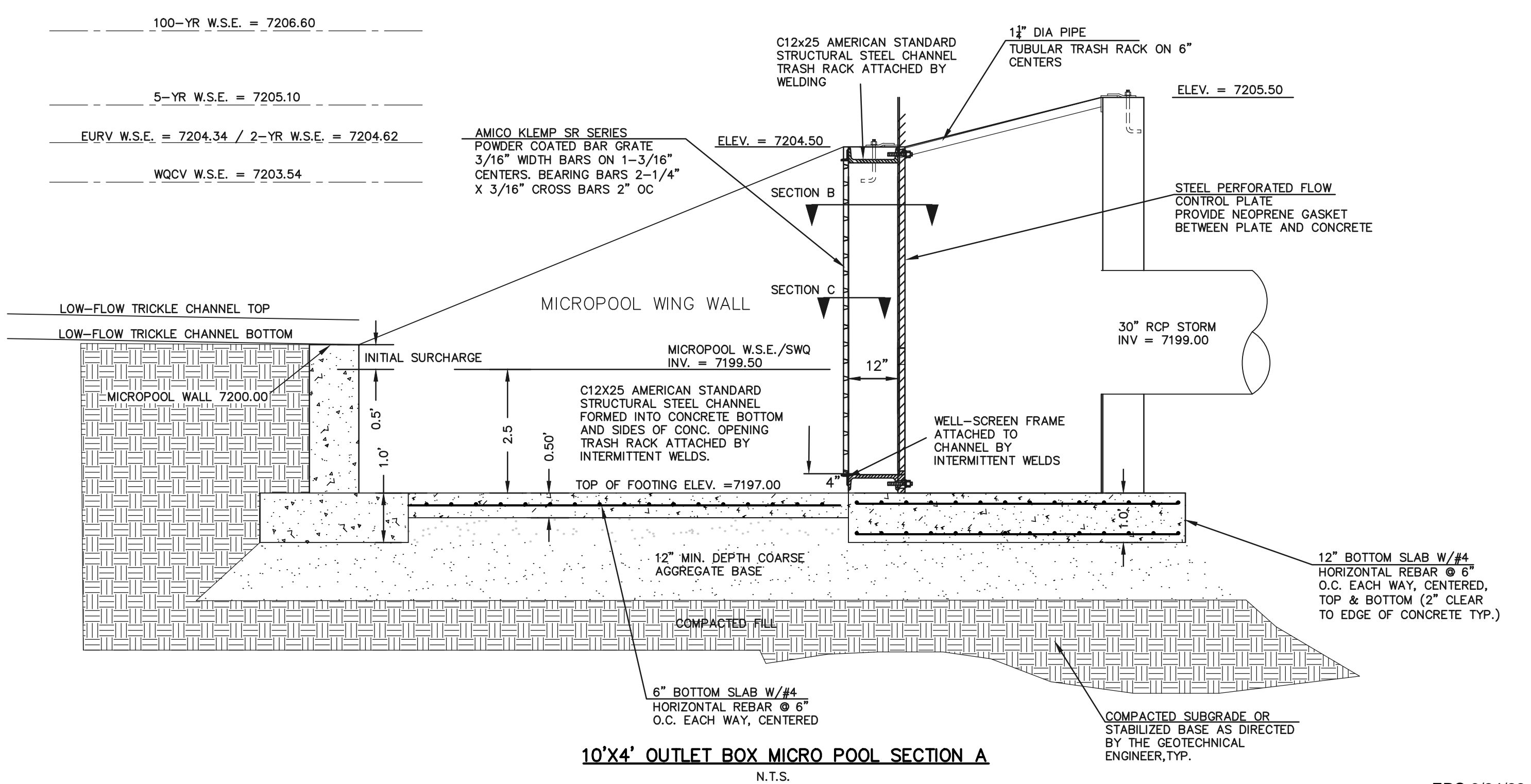
**SECTION A  
TYPICAL EMBANKMENT  
WITH SOIL KEYWAY**  
SCALE: N.T.S.



**10'X4' OUTLET BOX ORIFICE PLATE**  
SCALE 1" = 2'



WATER DEPTH ABOVE LOWEST OPENING, H	MINIMUM BEARING BAR SIZE, BARS ALIGNED VERTICALLY
2.0 FT.	1" x 3/16"
3.0 FT.	1-1/4" x 3/16"
4.0 FT.	1-3/4" x 3/16"
5.0 FT.	2" x 3/16"
6.0 FT.	2-1/4" x 3/16"



**10'X4' OUTLET BOX MICRO POOL SECTION A**  
N.T.S.

**AS-BUILT  
11-30-2023**

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NO.	REVISION	DATE
1	REVISED PER COUNTY COMMENTS	09-20-21
2	REVISED PER COUNTY COMMENTS	2/7/22
3	REVISED PER COUNTY COMMENTS	3/18/22

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

MARC A. WHORTON, COLORADO REGISTERED PROFESSIONAL ENGINEER #37155  
DATE: 3/23/2022



RETREAT AT TIMBERIDGE FILING NO. 2  
CONSTRUCTION PLANS  
DETENTION FACILITY 3  
OUTLET BOX DETAILS

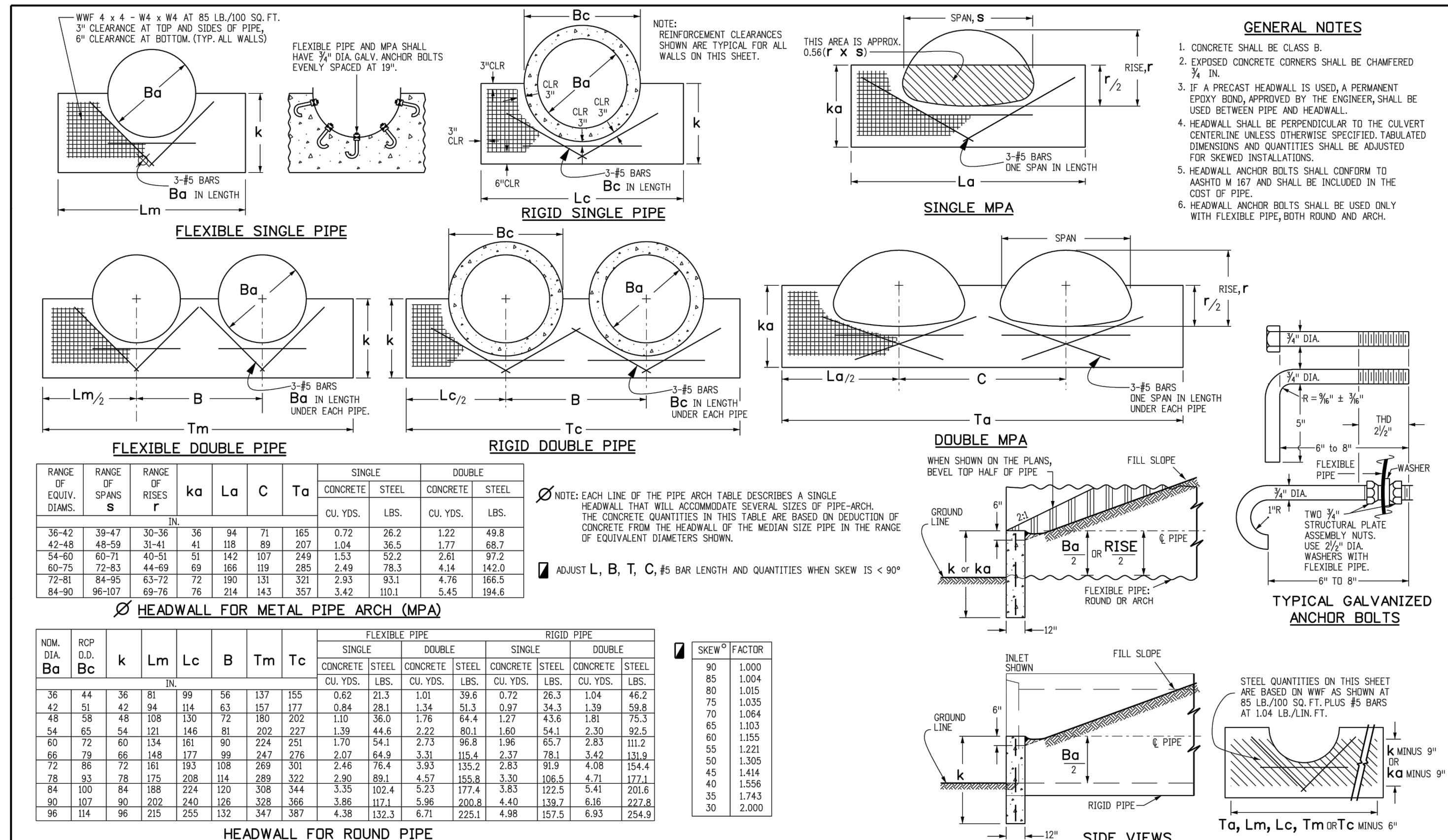
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DRAWN BY: MAW (H) 1" = N/A SHEET 22 OF 24  
CHECKED BY: (V) 1" = N/A JOB NO. 1185.20

EPC 6/24/22









RANGE OF EQUIV. DIAM.	RANGE OF SPANS S	RANGE OF RISES R	SINGLE					DOUBLE						
			CONCRETE	STEEL	CONCRETE	STEEL	CONCRETE	STEEL	CONCRETE	STEEL				
36-42	39-47	30-36	36	64	71	165	0.72	26.2	1.22	48.8				
42-48	48-59	31-41	41	118	89	207	1.04	36.5	1.77	68.7				
54-60	60-71	40-51	51	142	107	249	1.53	52.2	2.61	97.2				
60-75	72-83	44-49	49	168	119	285	2.49	78.3	4.14	142.0				
72-81	84-95	63-72	72	190	131	321	3.93	93.1	4.76	166.5				
84-90	96-107	69-76	76	214	143	357	3.42	110.1	5.45	194.6				

NOM. DIA. Ba	RCP D.D. Bc	k	FLEXIBLE PIPE					RIGID PIPE					SKEW θ FACTOR		
			Lm	Lc	B	Tm	Tc	CONCRETE	STEEL	CONCRETE	STEEL	CONCRETE		STEEL	
36	44	36	81	99	56	137	155	0.82	21.3	1.01	39.8	0.72	26.3	1.04	46.2
42	51	42	94	116	63	157	177	0.84	28.1	1.34	51.3	0.92	34.3	1.39	59.8
48	58	48	108	130	72	180	202	1.10	36.0	1.76	64.4	1.27	43.6	1.81	75.3
54	65	54	121	146	81	202	227	1.39	44.6	2.22	80.1	1.60	54.1	2.30	92.5
60	72	60	134	161	90	224	251	1.70	54.3	2.73	96.9	1.96	65.7	2.83	111.2
66	79	66	148	177	99	247	278	2.07	64.9	3.31	115.4	2.37	78.1	3.42	131.9
72	86	72	161	193	108	269	301	2.46	76.4	3.93	135.2	2.83	91.9	4.08	154.4
78	93	78	175	208	114	289	322	2.90	89.1	4.57	155.8	3.30	105.5	4.71	172.1
84	100	84	188	224	120	308	344	3.35	102.4	5.23	177.4	3.83	122.5	5.41	201.6
90	107	90	202	240	126	328	366	3.86	117.1	5.98	200.8	4.40	139.7	6.16	222.8
96	114	96	215	255	132	347	387	4.38	132.3	6.71	225.1	4.98	157.5	6.93	254.9

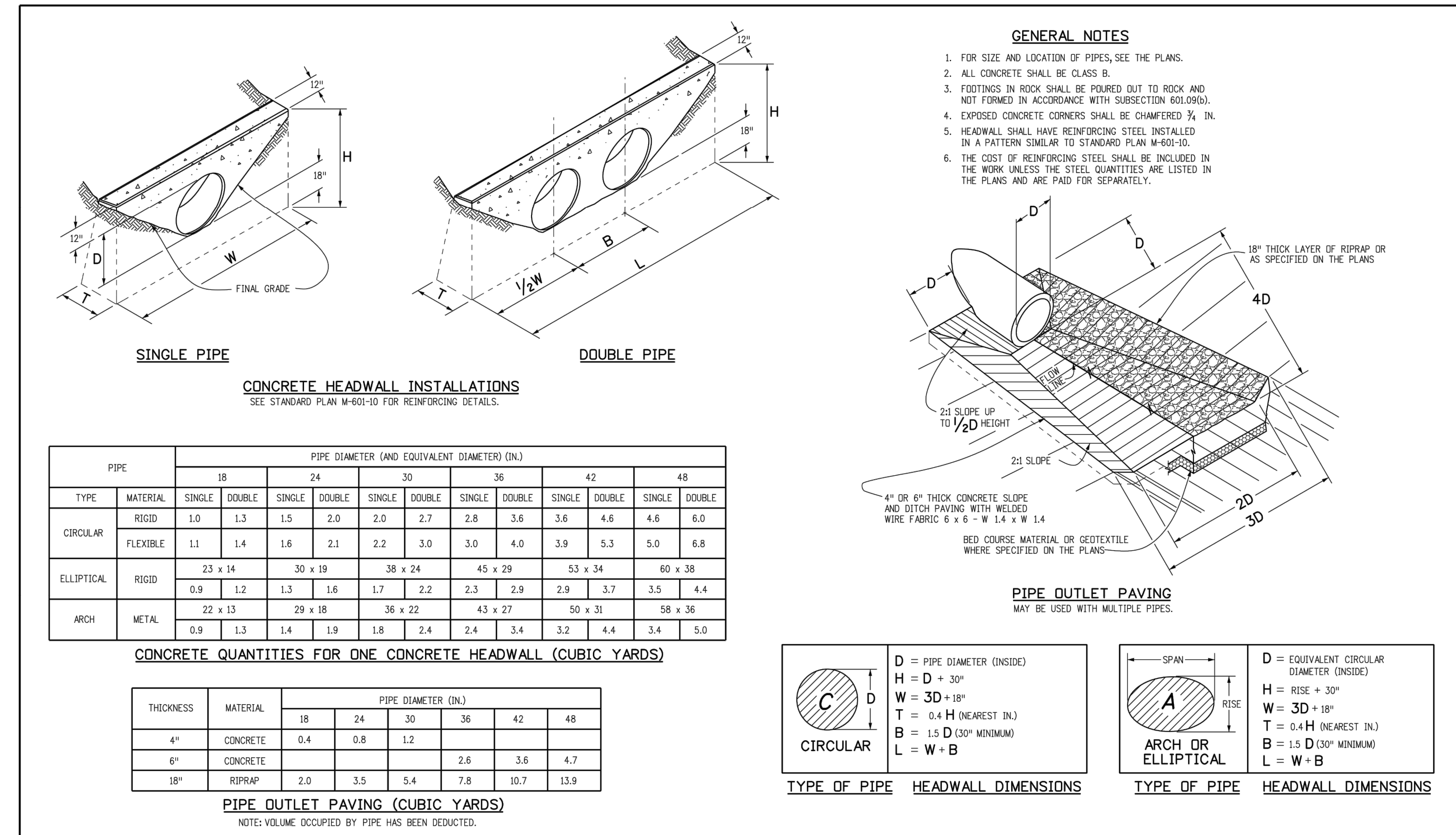
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Design: JBR				CDOT HQ, 3rd Floor	
Last Modification Date: 07/31/19				Denver, CO 80204	
Detailer: LTA				Phone: 303-757-9021 FAX: 303-757-9888	
CAD Ver: MicroStation V8	Scale: Not to Scale	Units: English		Project Development Branch	JBR

**TYPE "S" SADDLE HEADWALLS FOR PIPE**

STANDARD PLAN NO. M-601-11

Standard Sheet No. 1 of 1

Issued by the Project Development Branch July 31, 2019



PIPE TYPE	MATERIAL	PIPE DIAMETER (AND EQUIVALENT DIAMETER) (IN.)												
		18	24	30	36	42	48	54	60	66	72			
CIRCULAR	RIGID	1.0	1.3	1.5	2.0	2.0	2.7	2.8	3.6	4.6	4.6	6.0	6.0	6.8
	FLEXIBLE	1.1	1.4	1.6	2.1	2.2	3.0	3.0	4.0	3.9	5.3	5.0	6.8	6.8
ELLIPTICAL	RIGID	23 x 14	30 x 19	38 x 24	45 x 29	53 x 34	60 x 38							
	METAL	0.9	1.2	1.3	1.6	1.7	2.2	2.3	2.9	2.9	3.7	3.5	4.4	
ARCH	RIGID	22 x 13	29 x 18	36 x 22	43 x 27	50 x 31	58 x 36							
	METAL	0.9	1.3	1.4	1.9	1.8	2.4	2.4	3.4	3.2	4.4	3.4	5.0	

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

**CONCRETE QUANTITIES FOR ONE CONCRETE HEADWALL (CUBIC YARDS)**

NOTE: VOLUME OCCUPIED BY PIPE HAS BEEN DEDUCTED.

Computer File Information: Creation Date: 07/04/12, Initials: DD

Sheet Revisions: Date: , Comments:

Colorado Department of Transportation: 4201 East Arkansas Avenue, Denver, Colorado, 80222, Phone: (303) 757-9823, Fax: (303) 757-9820

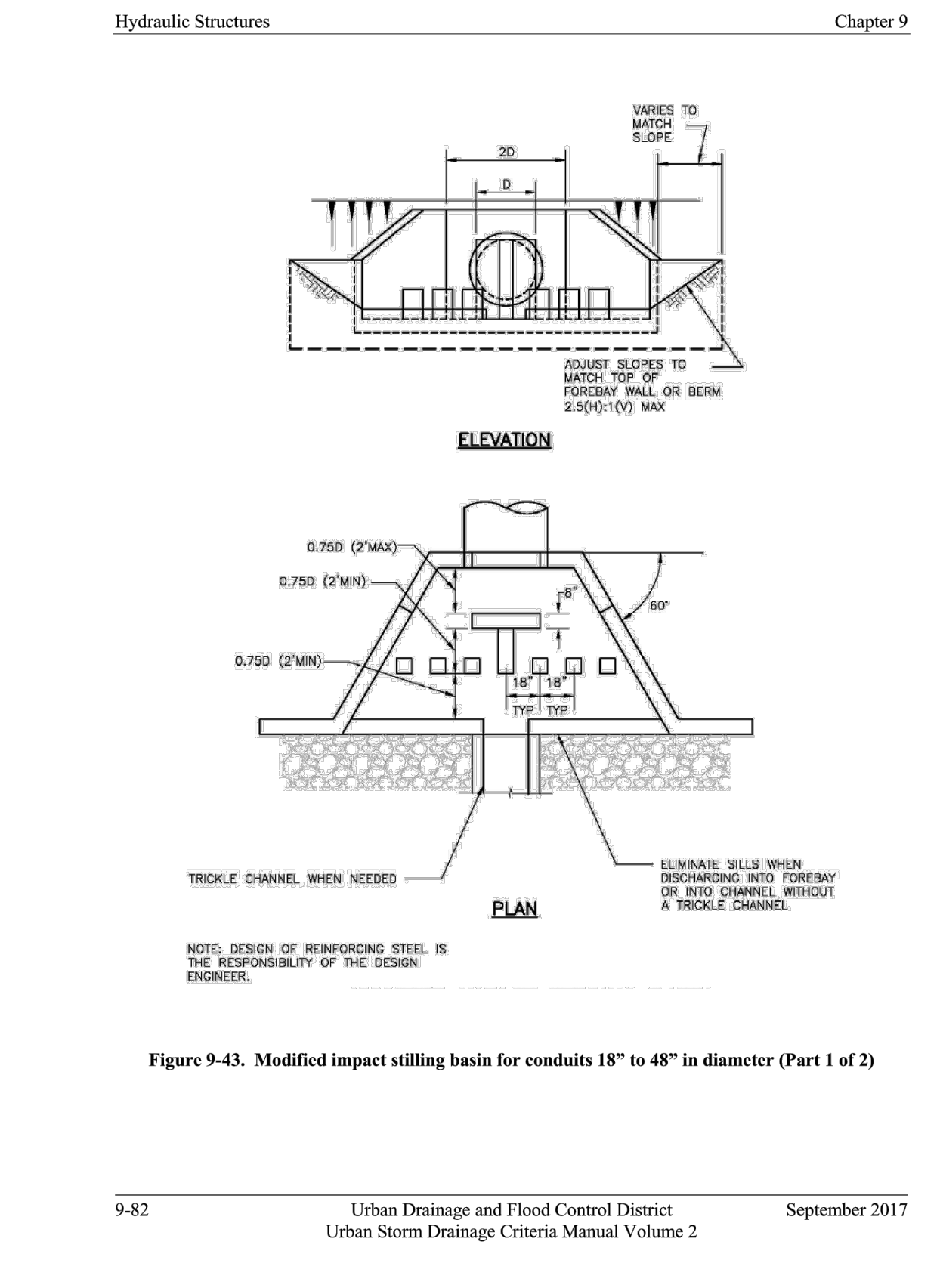
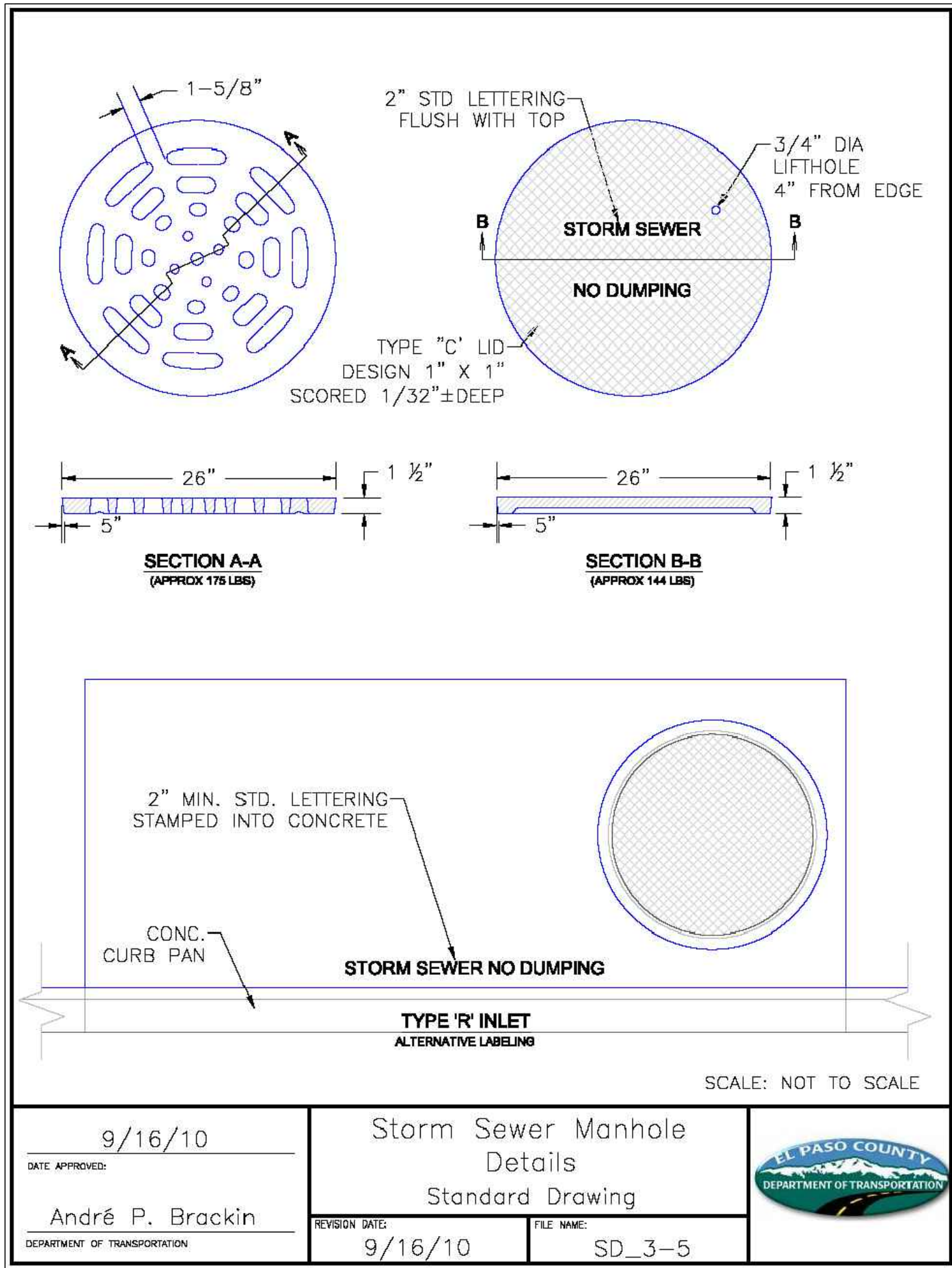
Project Development Branch DD/LTA

**HEADWALLS AND PIPE OUTLET PAVING**

STANDARD PLAN NO. M-601-12

Sheet No. 1 of 1

Issued By: Project Development Branch July 4, 2012



**AS-BUILT**

**11-30-2023**

48 HOURS BEFORE YOU DIG, CALL UTILITY LOCATORS	NO. REVISION	DATE	REVIEW:
<b>811</b>	1	3/16/12	PREPARED UNDER MY DIRECT SUPERVISION FOR AND ON BEHALF OF CLASSIC CONSULTING ENGINEERS AND SURVEYORS, LLC
UTILITY NOTIFICATION CENTER OF COLORADO			
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3/23/2022

MARC A. WHORTON

CLASSIC CONSULTING

**CLASSIC CONSULTING**

RETREAT AT TIMBERIDGE FILING NO. 2

CONSTRUCTION PLANS

DETAIL SHEET

DESIGNED BY: MAW

SCALE: (H) 1" = NA

DATE: 04-05-21

DRAWN BY: MAW

(V) 1" = NA

SHEET 23B OF 24

CHECKED BY:

JOB NO. 1185.20

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

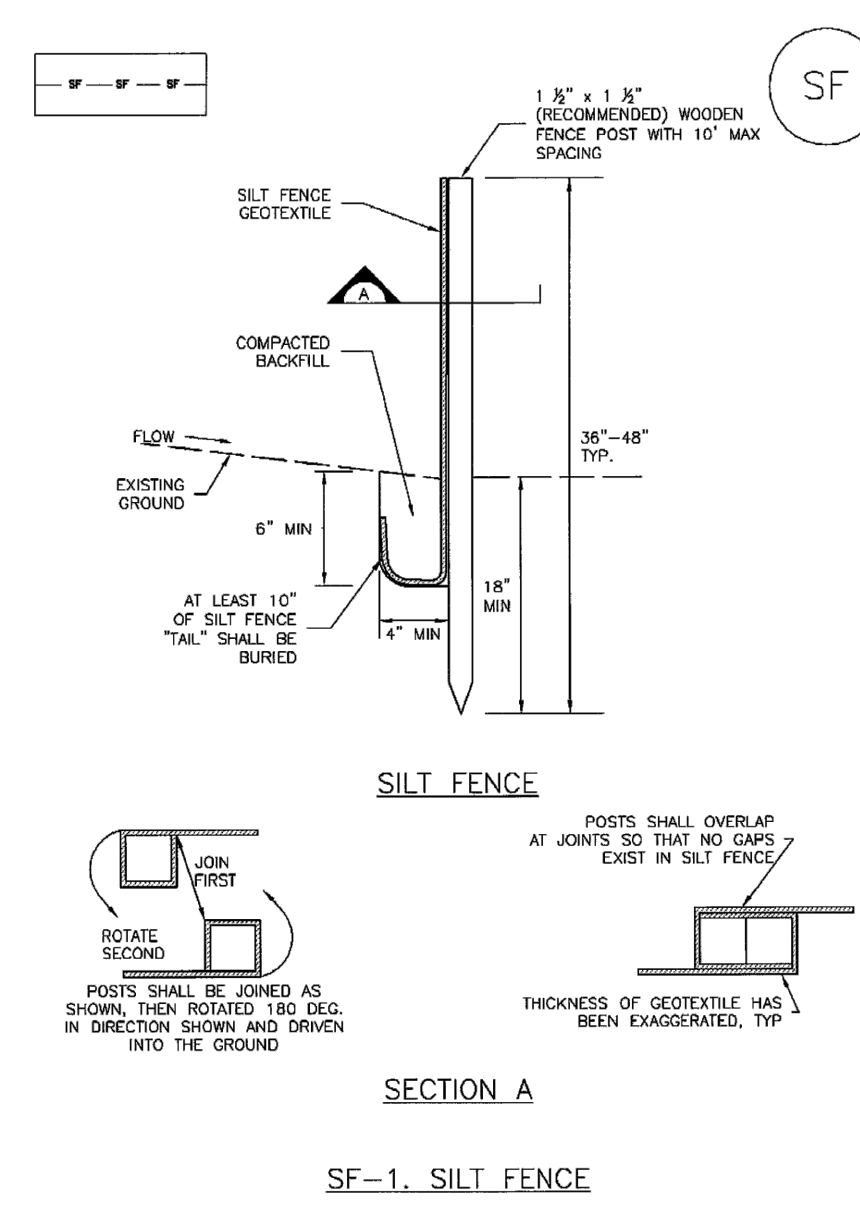
(719) 785-0790 (719) 785-0790 (Fax)

EPC 6/24/22



**Silt Fence (SF)**

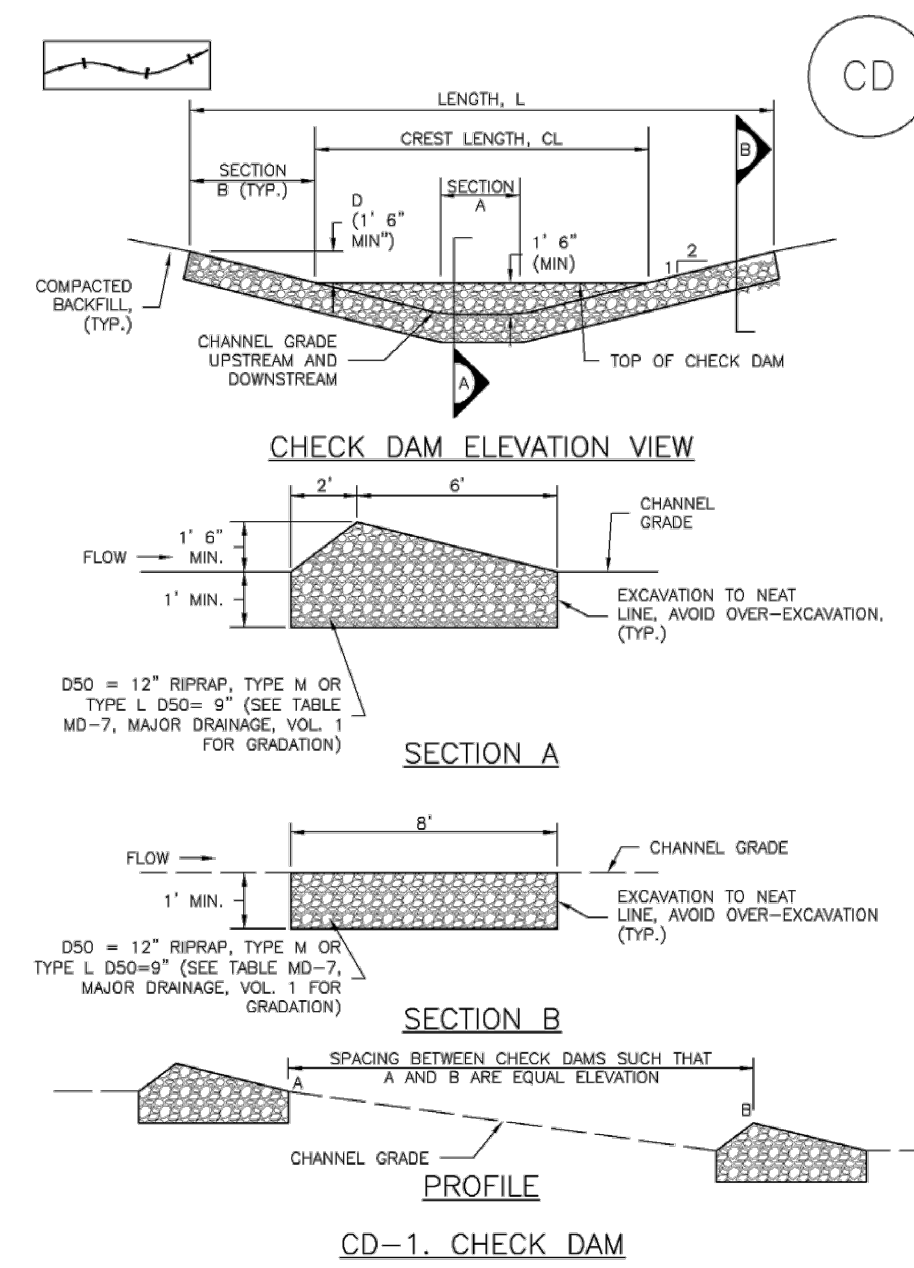
**SC-1**



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

**Check Dams (CD)**

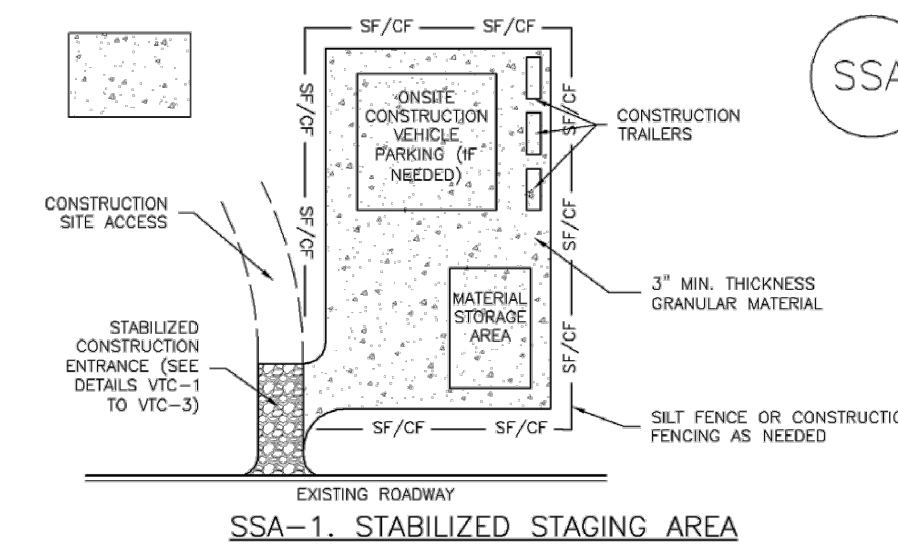
**EC-12**



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

**Stabilized Staging Area (SSA)**

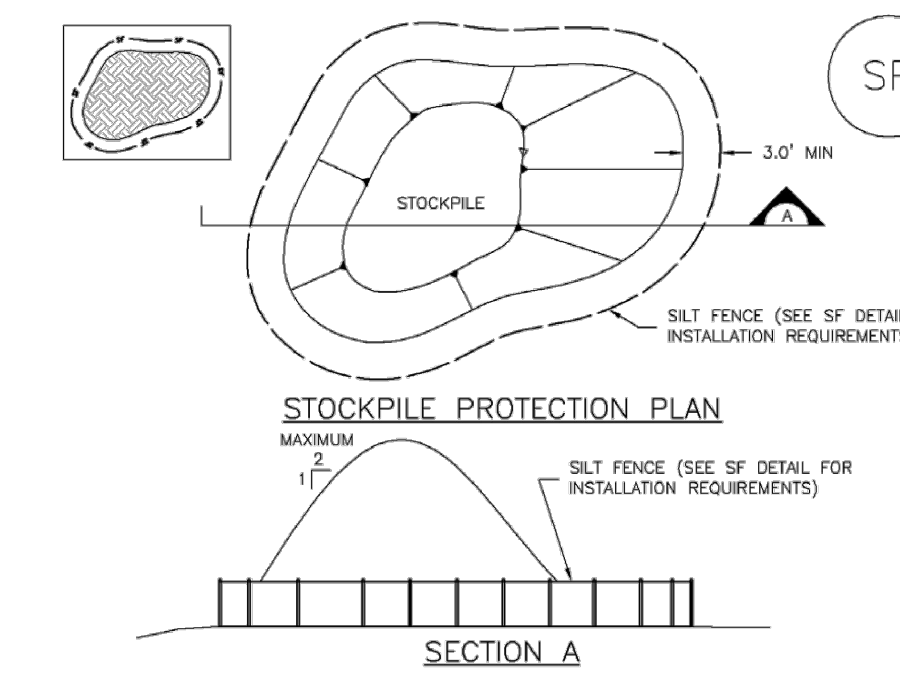
**SM-6**



**SSA-1. STABILIZED STAGING AREA**  
**STABILIZED STAGING AREA INSTALLATION NOTES**  
 1. SEE PLAN VIEW FOR LOCATION OF STAGING AREA(S). CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.  
 2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.  
 3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.  
 4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3\"/>

**Stockpile Management (SP)**

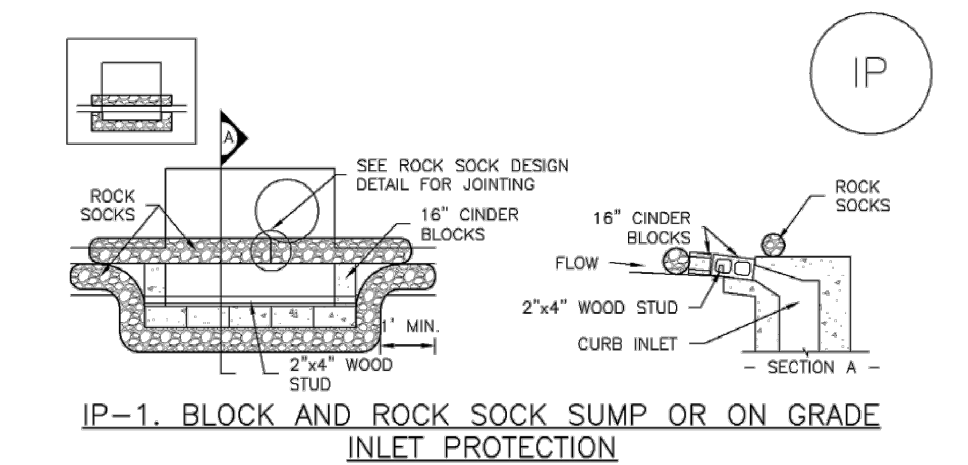
**MM-2**



**SP-1. STOCKPILE PROTECTION**  
**STOCKPILE PROTECTION INSTALLATION NOTES**  
 1. SEE PLAN VIEW FOR LOCATION OF STOCKPILES TYPE OF STOCKPILE PROTECTION.  
 2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLIPS AGAINST THE PERIMETER, AND OTHER FACTORS.  
 3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDING AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).  
 4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

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

**SC-6 Inlet Protection (IP)**



**IP-1. BLOCK AND ROCK SOCK SUMP OR ON GRADE INLET PROTECTION**  
**BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES**  
 1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.  
 2. CONCRETE \"CHOKER\" BLOCKS SHALL BE LAID ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB.  
 3. GRAVEL BARS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINTED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.  
**IP-2. CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION**  
**CURB ROCK SOCK INLET PROTECTION INSTALLATION NOTES**  
 1. SEE ROCK SOCK DESIGN DETAIL INSTALLATION REQUIREMENTS.  
 2. PLACEMENT OF THE SOCK SHALL BE APPROXIMATELY 30 DEGREES FROM PERPENDICULAR IN THE OPPOSITE DIRECTION OF FLOW.  
 3. SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5 FEET APART.  
 4. AT LEAST TWO CURB SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.

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

**SC-1 Silt Fence (SF)**

**SILT FENCE INSTALLATION NOTES**  
 1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.  
 2. A UNIFORM 6\"/>

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

**EC-12 Check Dams (CD)**

**CHECK DAM INSTALLATION NOTES**  
 1. SEE PLAN VIEW FOR LOCATION OF CHECK DAMS. CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM). LENGTH (L), CREST LENGTH (CL), AND DEPTH (D).  
 2. CHECK DAMS INDICATED ON INITIAL SWMP SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND DISTURBING ACTIVITIES.  
 3. RIRRAP UTILIZED FOR CHECK DAMS SHOULD BE OF APPROPRIATE SIZE FOR THE APPLICATION. TYPICAL TYPES OF RIRRAP USED FOR CHECK DAMS ARE TYPE M (D50 12\"/>

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

**SM-6 Stabilized Staging Area (SSA)**

**STABILIZED STAGING AREA MAINTENANCE NOTES**  
 5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.  
 6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDING AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.  
**NOTE: MANY JURISDICTIONS PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.**  
**NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.**  
 (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

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

**MM-2 Stockpile Management (SM)**

**STOCKPILE PROTECTION MAINTENANCE NOTES**  
 1. 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.  
 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.  
 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.  
**STOCKPILE PROTECTION MAINTENANCE NOTES**  
 4. IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.  
 5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE IS BEING USED.  
**(DETAILS ADAPTED FROM PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)**  
**NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.**

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

**AS-BUILT  
11-30-2023**

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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
1	REVISED PER COUNTY COMMENTS	2/7/22
2	REVISED PER COUNTY COMMENTS	3/16/22

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

 MARC A. WHORTON #37155 DATE 3/23/2022

**RETREAT AT TIMBERIDGE FILING NO. 2 CONSTRUCTION PLANS GRADING & EROSION CONTROL PLAN EROSION CONTROL DETAILS**

**CLASSIC CONSULTING**

DESIGNED BY MAW SCALE DATE 02-25-21  
 DRAWN BY MAW (H) 1"= N/A SHEET 24A OF 24  
 CHECKED BY (V) 1"= N/A JOB NO. 1185.20

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

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