

STANDARD CONSTRUCTION NOTES:

- 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 LOCATION 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 SPRINGS.
- 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 TIME INCLUDING THE FOLLOWING:
 - EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - CITY OF COLORADO SPRINGS/EL PASO COUNTY ENGINEERING CRITERIA MANUAL VOLUMES 1 AND 2.
 - COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARDS SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
 - CDOT M&S STANDARDS.
- IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ACCURACY SHOW EXISTING CONDITION BOTH ONSITE AND OFFSITE ON THE CONSTRUCTION PLANS. ANY MODIFICATION NECESSARY DUE TO CONFLICT OMISSIONS OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPERS RESPONSIBILITY TO RECTIFY.
- ONCE THE ESOPC HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL BMPs AS INDICATED ON THE 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 PCD INSPECTIONS STAFF.
- IT IS THE CONTRACTORS 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 STORM WATER QUALITY CONTROL PERMIT (ESQCP), US ARMY CORPS OF ENGINEER ISSUED 401 AND/OR 404 PERMITS AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE CONSTRUCTION SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- ANY TEMPORARY SIGNAGE AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOW AND MUTCD CRITERIA.
- CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRE BY EL PASO COUNTY DOT 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 OFFSITE DISTURBANCE GRADING, OR CONSTRUCTION.

GRADING AND EROSION CONTROL NOTES:

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESOPC 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.
- CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT 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.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENEED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED 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.
- 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.
- 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 ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC., ENTITLED GEOLOGIC HAZARD/LAND STUDY AND PRELIMINARY SUBSURFACE SOIL INVESTIGATION STERLING RANCH, DATED OCTOBER 31, 2006, AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:
COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
WQCD - PERMITS
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNIT

STERLING RANCH LIFT STATION AND FORCE MAIN

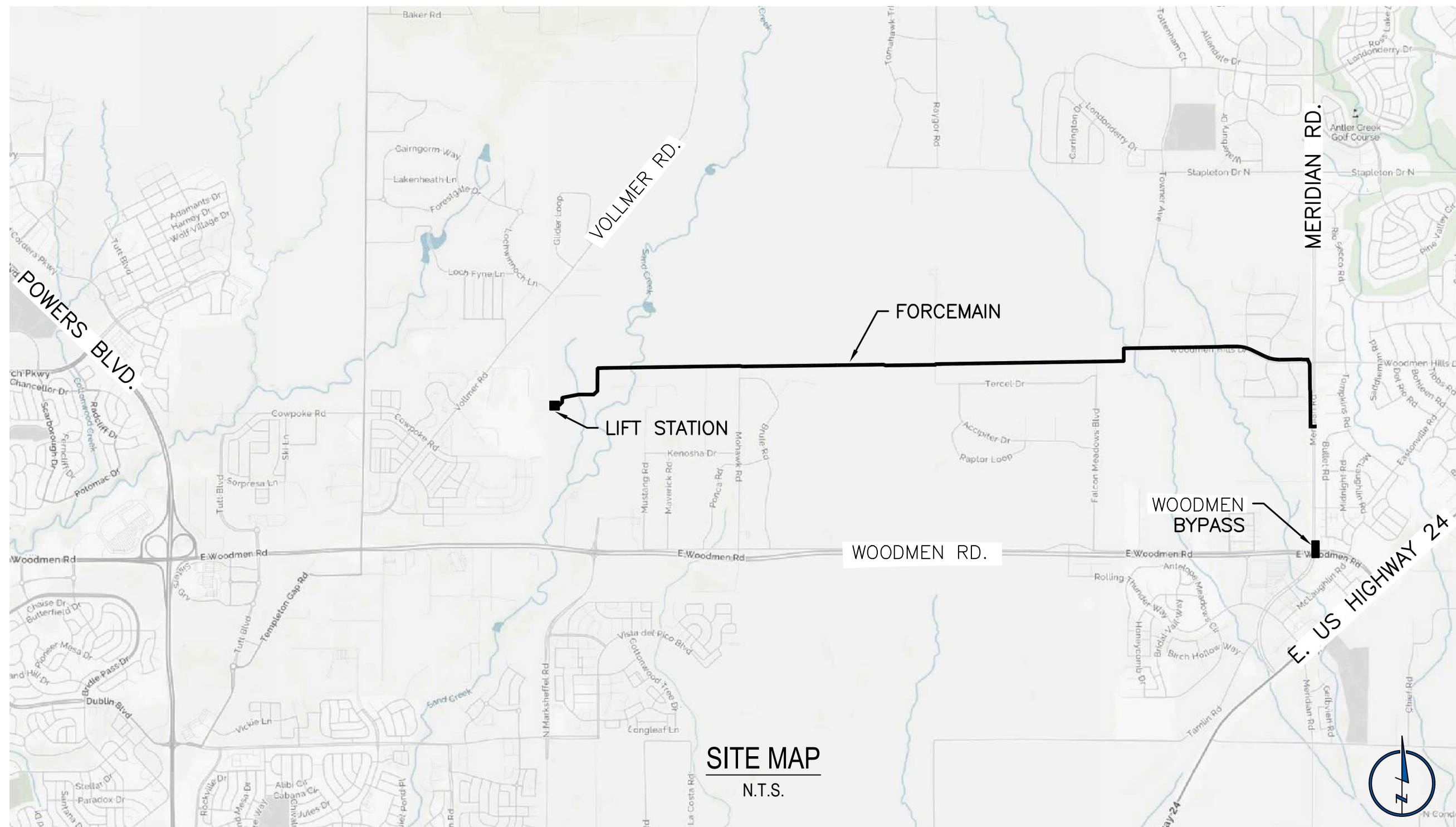
COUNTY OF EL PASO, STATE OF COLORADO

GRADING AND EROSION CONTROL PLANS

JANUARY 2020

AGENCIES

- OWNER/DEVELOPER: SR LAND, LLC
20 BOULDER CRESCENT, SUITE 201
COLORADO SPRINGS, CO 80903
JIM MORLEY (719) 598-5192
- CIVIL ENGINEER: M & S CIVIL CONSULTANTS, INC.
102 E. PIKES PEAK AVE., 5TH FLOOR
COLORADO SPRINGS, CO 80903
VIRGIL A. SANCHEZ P.E. (719) 955-5485
- COUNTY ENGINEERING: EL PASO COUNTY PLANNING
AND COMMUNITY DEVELOPMENT
2880 INTERNATIONAL CIRCLE, SUITE 110
COLORADO SPRINGS, CO 80910
JEFF RICE, P.E. (719) 520-6300
- TRAFFIC ENGINEERING: EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS
3275 AKERS DRIVE
COLORADO SPRINGS, CO 80922
JENNIFER IRVINE, P.E. (719) 520-6460
- WATER RESOURCES: STERLING RANCH METRO DISTRICT ENGINEERS
JDS-HYDRO CONSULTANTS
545 E. PIKES PEAK AVE., SUITE 300
COLORADO SPRINGS, CO 80903
JOHN MCGINN (719) 668-8769
- FIRE DISTRICT: BLACK FOREST FIRE PROTECTION DISTRICT
11445 TEACHOUT ROAD
COLORADO SPRINGS, CO 80908
CHIEF BRYAN JACK (719) 495-4300
- GAS DEPARTMENT: COLORADO SPRINGS UTILITIES
7710 DURANT DR.
COLORADO SPRINGS, CO 80947
TIM WENDT (719) 668-3556
- ELECTRIC DEPARTMENT: MOUNTAIN VIEW ELECTRIC
1140 E. WOODMEN ROAD
FALCON, CO 80831
(719) 495-2283
- COMMUNICATIONS: QWEST COMMUNICATIONS
(U.N.C.C. LOCATORS) (800) 922-1987
AT&T (LOCATORS) (719) 635-3674



SHEET INDEX

SHEET 1	TITLE SHEET
SHEET 2	GRADING & EROSION CONTROL PLAN
SHEET 3	GRADING & EROSION CONTROL PLAN
SHEET 4	GRADING & EROSION CONTROL PLAN
SHEET 5	GRADING & EROSION CONTROL PLAN
SHEET 6	GRADING & EROSION CONTROL PLAN
SHEET 7	GRADING & EROSION CONTROL PLAN
SHEET 8	GRADING & EROSION CONTROL PLAN
SHEET 9	GRADING & EROSION CONTROL PLAN
SHEET 10	GRADING & EROSION CONTROL PLAN
SHEET 11	GRADING & EROSION CONTROL PLAN
SHEET 12	GRADING & EROSION CONTROL PLAN
SHEET 13	GRADING & EROSION CONTROL PLAN
SHEET 14	GRADING & EROSION CONTROL PLAN
SHEET 15	GRADING & EROSION CONTROL DETAILS

firm map
08041C0533G

ADDITIONAL NOTES:

- STAGING AREA TO BE DETERMINED BY CONTRACTOR IN THE FIELD. THE LOCATIONS SHALL BE DELINEATED ON THIS PLAN BY THE CONTRACTOR.
- THE EROSION CONTROL DELINEATED ON THIS PLAN SHALL BE REGULARLY UPDATED BY THE CONTRACTOR.
- NO PORTION OF THIS PROPERTY IS LOCATED WITHIN A DESIGNATED FEMA FLOODPLAIN IN ACCORDANCE WITH FLOOD INSURANCE RATE MAPS (FIRM) 08041C0535G, EFFECTIVE DATE MARCH 12, 2018.
- WETLANDS DISTURBANCE:**
CONTRACTOR SHALL MINIMIZE DISTURBANCE OF EXISTING WETLANDS AND FOLLOW ALL OF THE RECOMMENDATIONS OUTLINED IN THE WETLANDS DELINEATION REPORT FOR THE STERLING RANCH DEVELOPMENT (PREPARED BY CORE CONSULTANTS, INC., PN 15-001, DATED MAY 7TH, 2015). THE PRE-CONSTRUCTION NOTIFICATION REPORT PREPARED BY CORE CONSULTANTS, INC., AS WELL AS ALL OTHER AVAILABLE INFORMATION AND JURISDICTIONAL REQUIREMENTS.

PROJECT CONTROL

- HORIZONTAL CONTROL:**
- N 1/4 CORNER, SEC 3, T13S, R65W
NORTHING: 410191.1110
EASTING: 241732.9390
ELEVATION: 7010.07
DESCRIPTION: 2 1/2" ALUM CAP W/ 2" ALUM PIPE, LS 11624
- NW CORNER, SEC 3, T13S, R65W
NORTHING: 410194.8270
EASTING: 239010.5240
ELEVATION: 7028.15
DESCRIPTION: 2 1/2" ALUM CAP W/ 3" REBAR, LS 11624
- VERTICAL DATUM:**
- STERLING RANCH DEVELOPMENT BENCHMARK
NORTHING: 413533.64
EASTING: 235994.01
ELEVATION: 7076.93
DESCRIPTION: 1/2" REBAR WITH 1" PLASTIC CAP

ENGINEER'S STATEMENT:

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.



VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC. DATE

DEVELOPER'S STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

JAMES F. MORLEY
SR LAND, LLC
20 BOULDER CRESCENT, SUITE 201
COLORADO SPRINGS, CO 80903
(719) 471-1742 DATE

EL PASO COUNTY:

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

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

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

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



STERLING RANCH LIFT STATION & FORCE MAIN
GRADING & EROSION CONTROL PLAN
PROJECT NO. 09-010
SCALE: HORIZONTAL: N/A VERTICAL: N/A
DATE: 01-24-2020
DESIGNED BY: DM
DRAWN BY: CLP
CHECKED BY: DM
SHEET 1 OF 15
GR01

102 E. PIKES PEAK AVE., 5TH FLOOR
COLORADO SPRINGS, CO 80903
PHONE: 719.955.5485

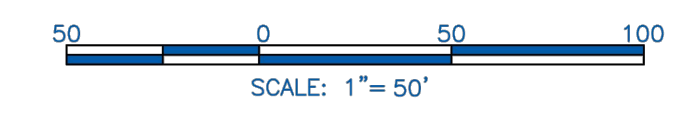
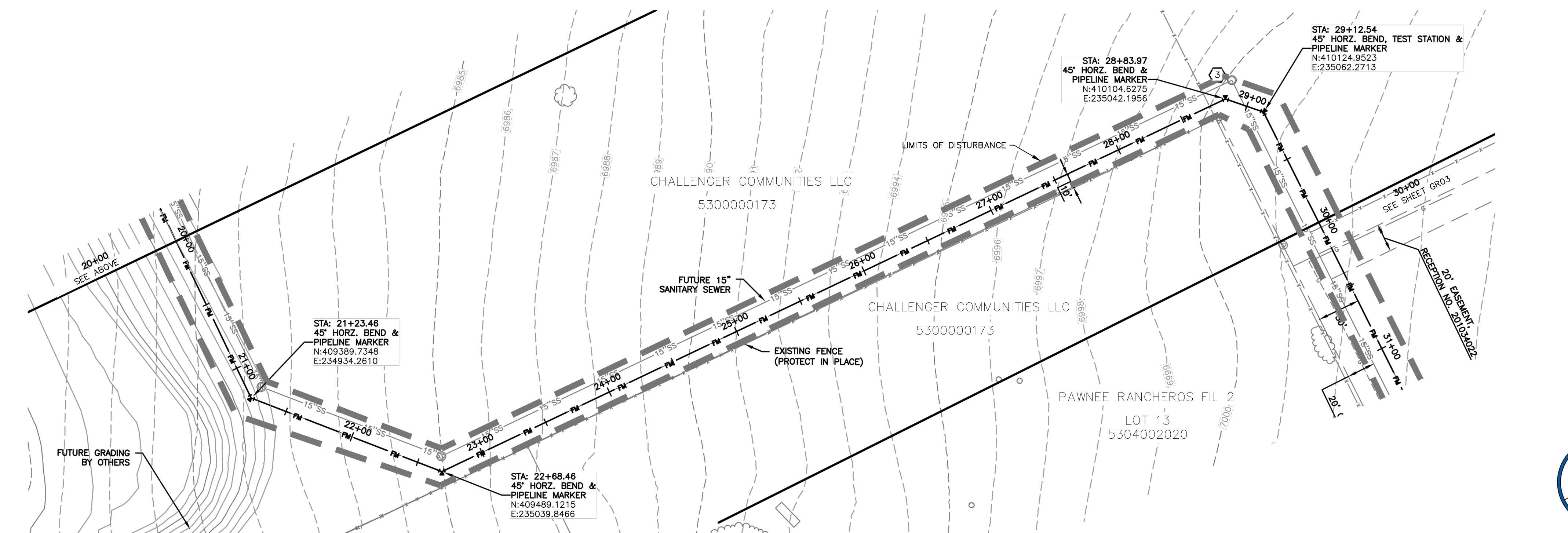
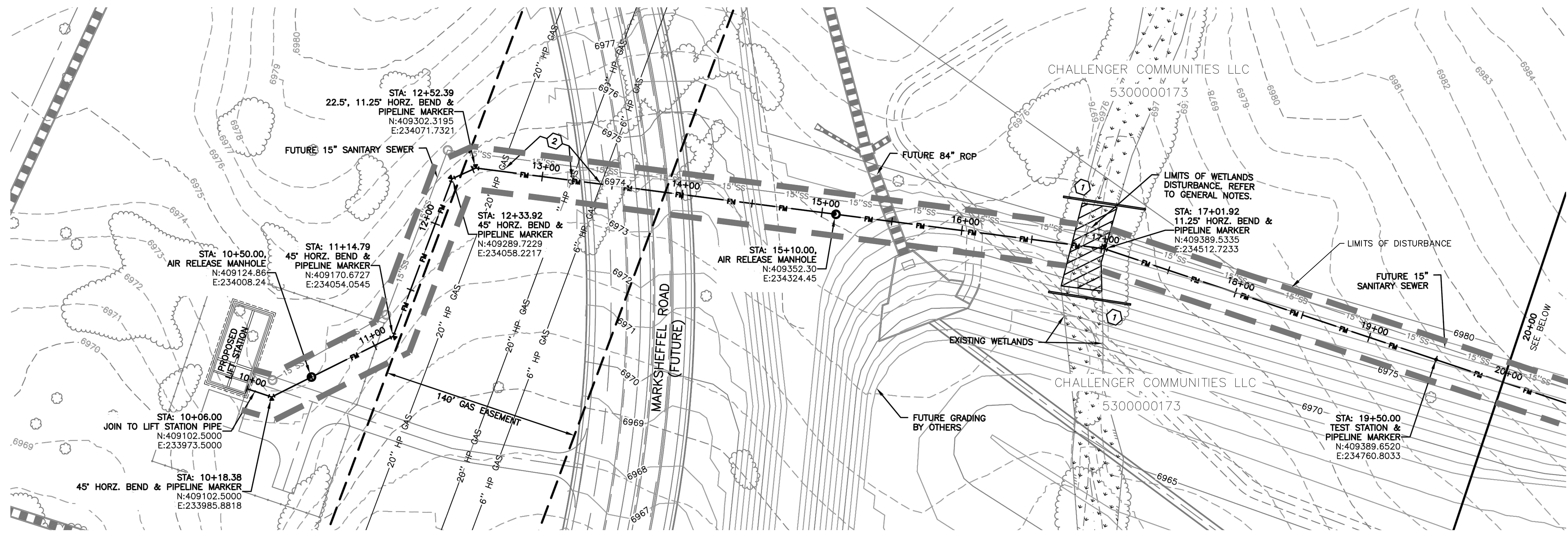
CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

NO.	DATE	BY	DESCRIPTION

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION



NOTES:

1. SEE SHEET GR01 FOR GENERAL NOTES.
2. STATIONING IS BASED ON THE CENTERLINE BETWEEN THE 8" AND 10" FORCE MAINS.
3. CONTRACTOR SHALL INSTALL THRUST BLOCKS AT ALL HORIZONTAL AND VERTICAL BENDS PER DETAIL.
4. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE AREA OF WORK 7 DAYS PRIOR TO THE START OF INSTALLATION OF THE PIPELINE. THE CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER OF ANY CONFLICTS THAT ARISE AND REQUIRE REDESIGN OF ANY PORTION OF THE PROJECT. REFER TO GENERAL NOTES FOR FURTHER INFORMATION.
5. CONTRACTOR SHALL BE REQUIRED TO STAY WITHIN THE CONSTRUCTION EASEMENTS AND/OR ROAD RIGHT OF WAY WHEN CONSTRUCTING THE PIPELINE. TRAFFIC CONTROL MEASURES SHALL BE IN PLACE DURING CONSTRUCTION PER EL PASO COUNTY REQUIREMENTS.
6. CONTRACTOR SHALL PROVIDE A MINIMUM 1' OF CLEARANCE BETWEEN ALL UTILITIES UNLESS OTHERWISE NOTED.
7. CONTRACTOR SHALL PLACE SEDIMENT CONTROL LOGS UPSTREAM OF ALL STORM DRAIN PIPES WITHIN THE PROJECT AREA.
8. CONTRACTOR SHALL BLADE A SMALL 6" HIGH BERM ALONG THE DOWNSTREAM SIDE OF TRENCHING OPERATIONS TO CONTROL STORM DRAINAGE FLOWS AND MINIMIZE TRANSPORTATION SEDIMENT DOWNSTREAM. SEE DETAIL SHEET GR15.
9. CONTRACTOR SHALL RESEED ALL AREAS DISTURBED DURING CONSTRUCTION, INCLUDING ANY SOD AND/OR LANDSCAPING.
10. CONTRACTOR SHALL PROTECT IN PLACE OR REMOVE AND REPLACE ANY SIGNS, MAILBOXES, LANDSCAPING, OR OTHER OBSTRUCTIONS DISTURBED DURING CONSTRUCTION.

KEYNOTE:

- ① SEDIMENT CONTROL LOG PER DETAIL SHEET GR15
- ② CONTRACTOR SHALL COORDINATE AND OBTAIN PERMITS WITH THE UTILITY COMPANIES PRIOR TO CONSTRUCTION AND CROSSING THE EXISTING HIGH PRESSURE GAS MAIN.
 - A. COLORADO INTERSTATE GAS (719) 520-4816
 - B. MAGELLAN MIDSTREAM GAS (918) 574-7098
- ③ REMOVE AND RE-INSTALL 50 LF OF EXISTING FENCE

EROSION & SEDIMENT CONTROL (EC) LEGEND

- VEHICLE TRACKING CONTROL
- TEMPORARY SEEDING (SEE NOTE 9.)
- SEDIMENT CONTROL LOG (SEE NOTE 7.)
- (COMPACTED) EARTH BERM (SEE NOTE 8.)
- LIMITS OF DISTURBANCE/ CONSTRUCTION BOUNDARY

GRADING

- EXISTING CONTOUR
- PROPOSED SWALE
- GRADE BREAK
- WETLANDS AREA NOT TO BE DISTURBED
- SPOT ELEVATION

how are you installing through this area? typ all wetlands and floodplain if you are not to disturb?

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

FOR BURIED UTILITY INFORMATION
48 HRS BEFORE YOU DIG
 CALL 1-800-922-1987

STERLING RANCH LIFT STATION & FORCE MAIN GRADING & EROSION CONTROL PLAN

PROJECT NO. 09-010 DATE: 01-24-2020

SCALE: HORIZONTAL: N/A VERTICAL: N/A

DESIGNED BY: DM DRAWN BY: CLP CHECKED BY: DM

SHEET 2 OF 15 GR02

102 E. PILES PEAK AVE., 5TH FLOOR
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.9485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

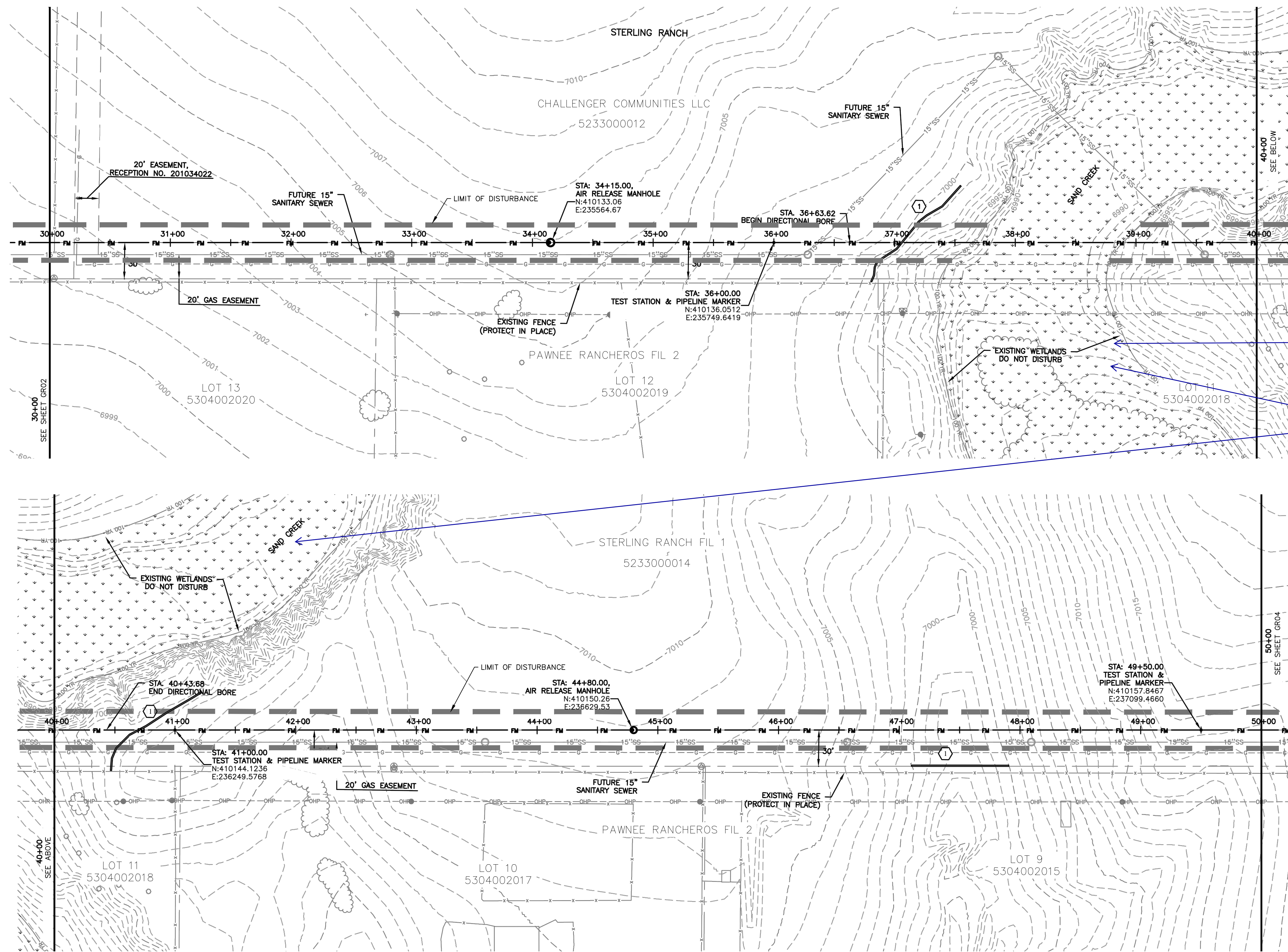
MARCIL A. SANCHEZ, COLORADO P.E. NO. 37160

REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	BY	DESCRIPTION

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION



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 - CONTRACTOR SHALL RESEED ALL AREAS DISTURBED DURING CONSTRUCTION, INCLUDING ANY SOD AND/OR LANDSCAPING.
 - CONTRACTOR SHALL PROTECT IN PLACE OR REMOVE AND REPLACE ANY SIGNS, MAILBOXES, LANDSCAPING, OR OTHER OBSTRUCTIONS DISTURBED DURING CONSTRUCTION.

KEYNOTE:

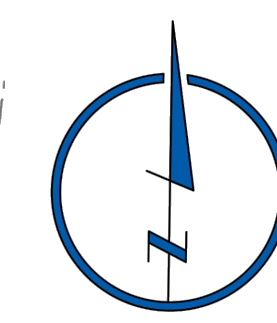
① SEDIMENT CONTROL LOG PER DETAIL SHEET GR15

EROSION & SEDIMENT CONTROL (EC) LEGEND

- VTC VEHICLE TRACKING CONTROL
- TS TEMPORARY SEEDING (SEE NOTE 9.)
- SEDIMENT CONTROL LOG (SEE NOTE 7.)
- EB (COMPACTED) EARTH BERM (SEE NOTE 8.)
- LIMITS OF DISTURBANCE/ CONSTRUCTION BOUNDARY

GRADING

- EXISTING CONTOUR
- PROPOSED SWALE
- GRADE BREAK
- WETLANDS AREA NOT TO BE DISTURBED
- X4638.00 SPOT ELEVATION



102 E. PILES PEAK AVE., 5TH FLOOR
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.9485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF
 M&S CIVIL CONSULTANTS, INC.

ARCHIL A. SANCHEZ, COLORADO P.E. NO. 371760

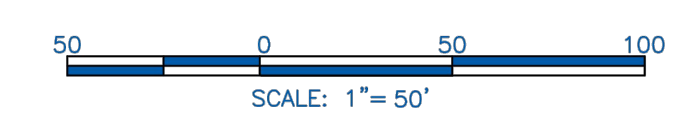
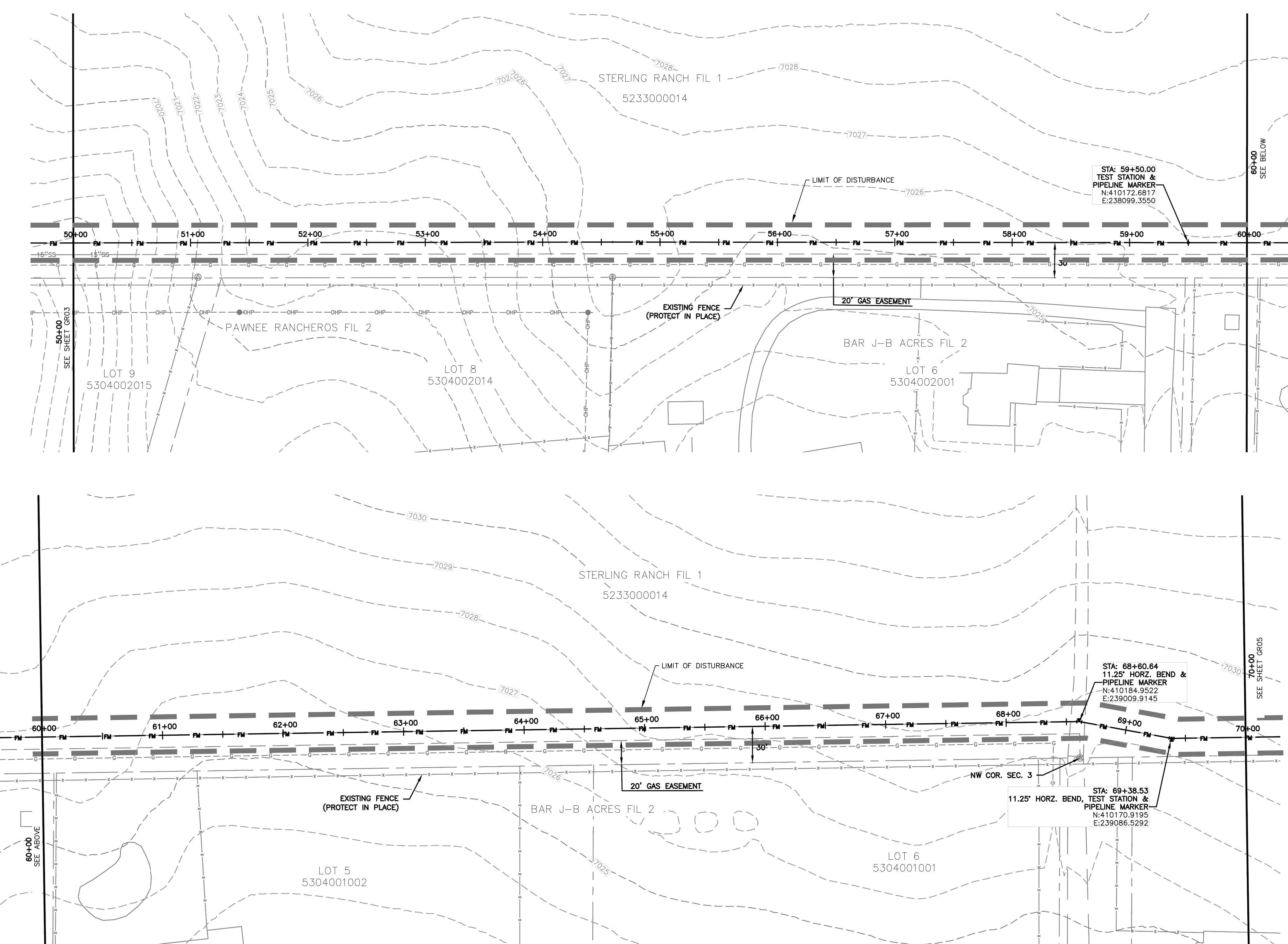
FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

FOR BURIED UTILITY INFORMATION CALL 1-800-922-1987

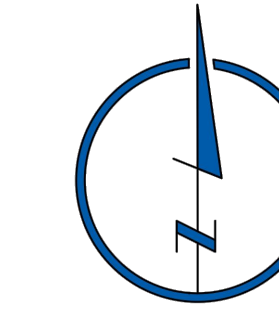
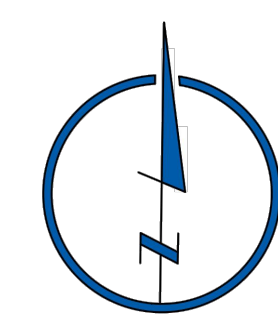
NO.	DATE	BY	DESCRIPTION

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION



- NOTES:**
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EROSION & SEDIMENT CONTROL (EC) LEGEND

	VEHICLE TRACKING CONTROL
	TEMPORARY SEEDING (SEE NOTE 9.)
	SEDIMENT CONTROL LOG (SEE NOTE 7.)
	(COMPACTED) EARTH BERM (SEE NOTE 8.)
	LIMITS OF DISTURBANCE / CONSTRUCTION BOUNDARY

GRADING

	EXISTING CONTOUR
	PROPOSED SWALE
	GRADE BREAK
	WETLANDS AREA NOT TO BE DISTURBED
	SPOT ELEVATION

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

**FOR BURIED UTILITY INFORMATION
48 HRS BEFORE YOU DIG
CALL 1-800-922-1987**

STERLING RANCH LIFT STATION & FORCE MAIN GRADING & EROSION CONTROL PLAN		DATE: 01-24-2020
PROJECT NO. 09-010	SCALE: N/A	SHEET 4 OF 15
DESIGNED BY: DM	HORIZONTAL: N/A	GR04
DRAWN BY: CLP	VERTICAL: N/A	
CHECKED BY:		

102 E. PILES PEAK AVE., 5TH FLOOR
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

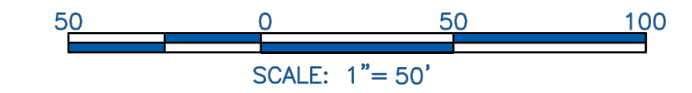
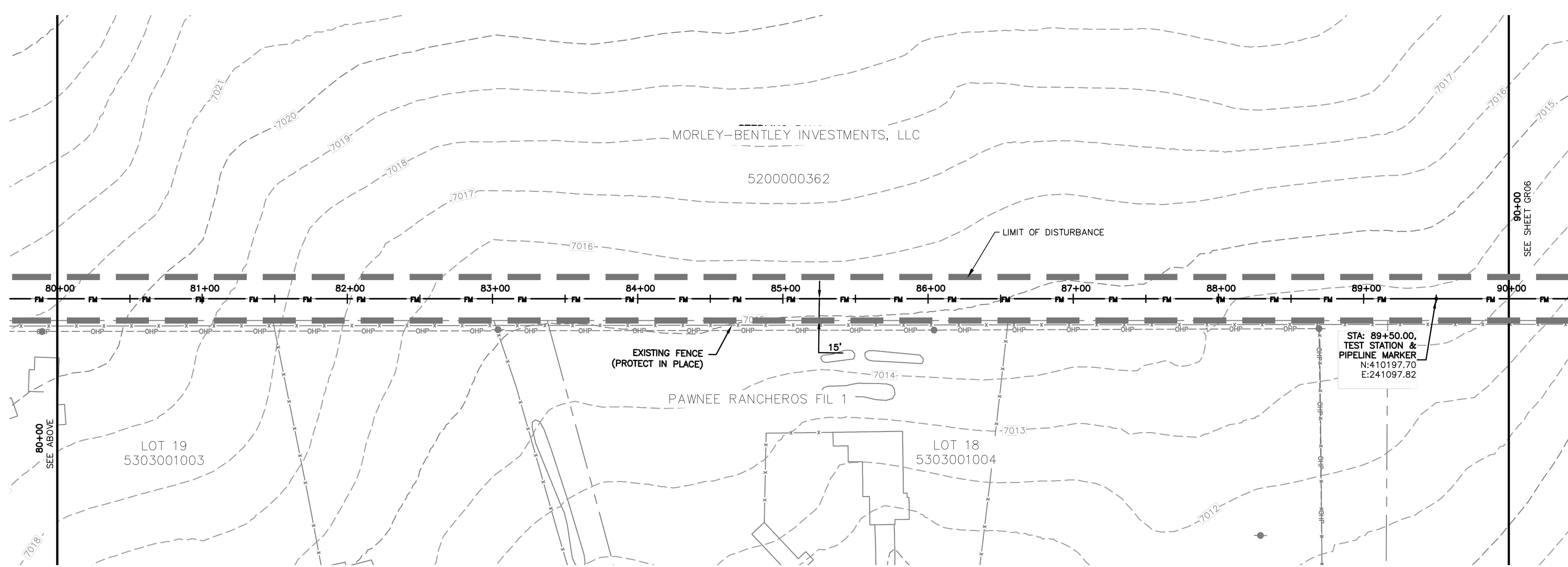
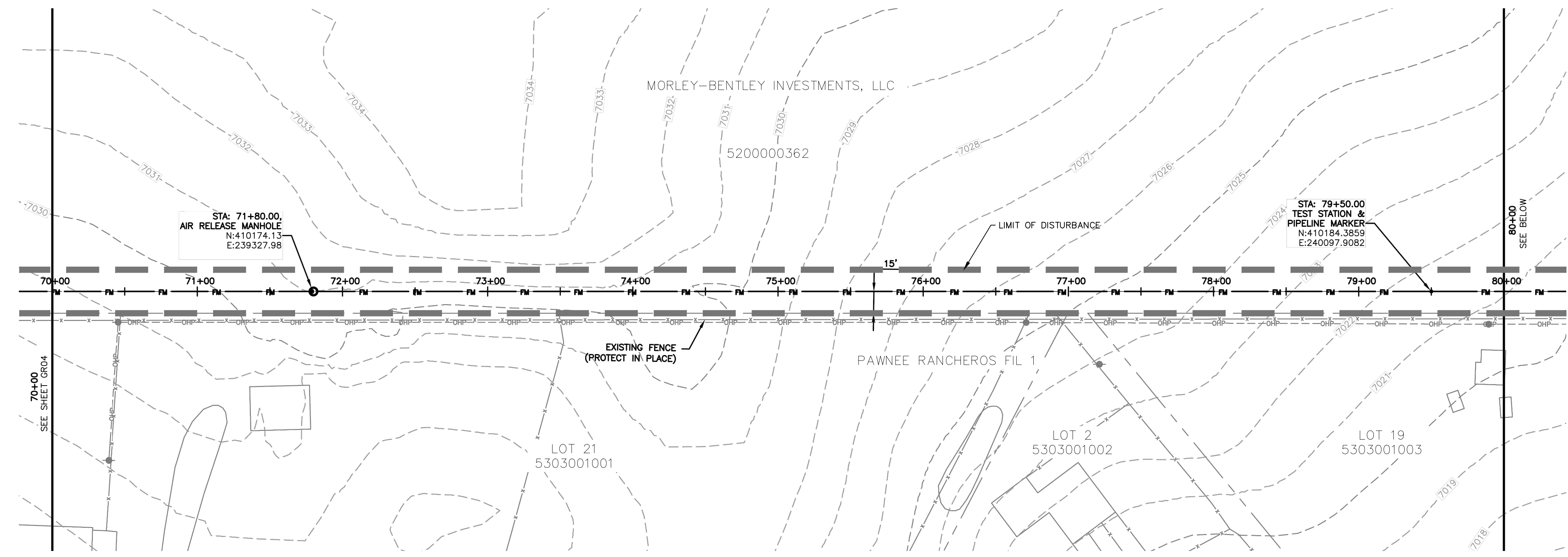
MARGIE A. SANCHEZ, COLORADO P.E. NO. 37160

PROFESSIONAL SEAL

NO.	DATE	BY	DESCRIPTION

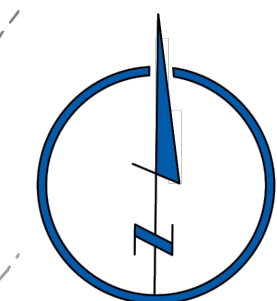
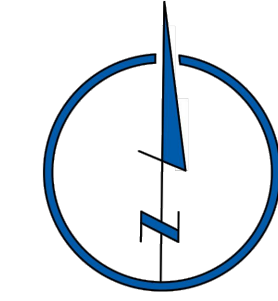
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CAUTION



NOTES:

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EROSION & SEDIMENT CONTROL (EC) LEGEND

- VEHICLE TRACKING CONTROL
- TEMPORARY SEEDING (SEE NOTE 9.)
- SEDIMENT CONTROL LOG (SEE NOTE 7.)
- (COMPACTED) EARTH BERM (SEE NOTE 8.)
- LIMITS OF DISTURBANCE/ CONSTRUCTION BOUNDARY

GRADING

- EXISTING CONTOUR
- PROPOSED SWALE
- GRADE BREAK
- WETLANDS AREA NOT TO BE DISTURBED
- SPOT ELEVATION

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

FOR BURIED UTILITY INFORMATION
48 HRS BEFORE YOU DIG
 CALL 1-800-922-1987

STERLING RANCH LIFT STATION & FORCE MAIN GRADING & EROSION CONTROL PLAN	
PROJECT NO. 09-010	DATE: 01-24-2020
DESIGNED BY: DM	HORIZONTAL: N/A
DRAWN BY: CLP	VERTICAL: N/A
CHECKED BY: DM	SCALE: 1"= 50'
SHEET 5 OF 15 GR05	

CIVIL CONSULTANTS, INC.

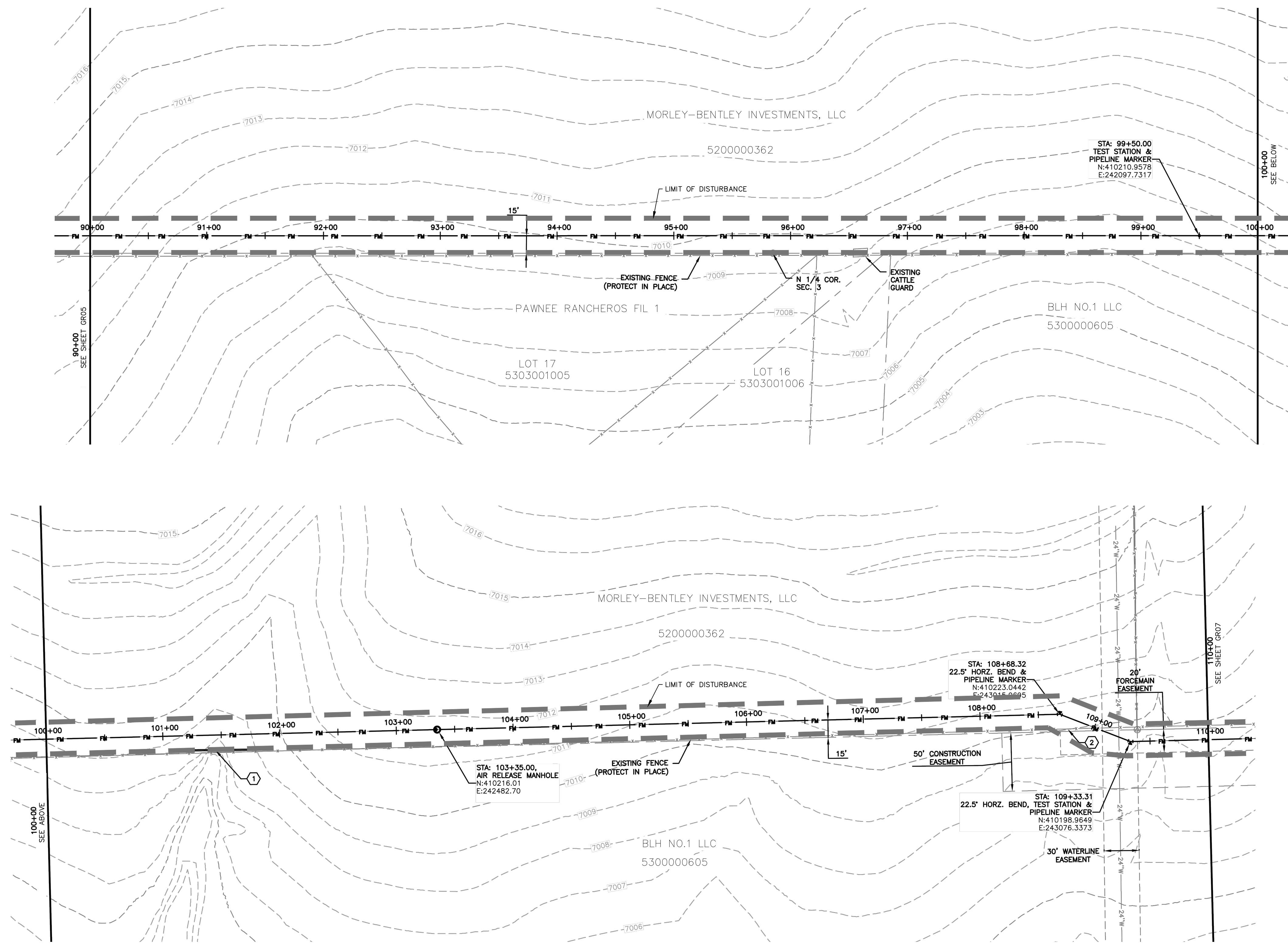
102 E. PILES PEAK AVE., 5TH FLOOR
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

FOR AND ON BEHALF OF
 M&S CIVIL CONSULTANTS, INC.

NO.	DATE	BY	DESCRIPTION

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CAUTION



NOTES:

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KEYNOTE:

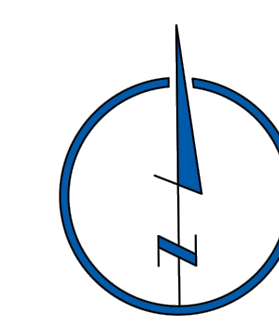
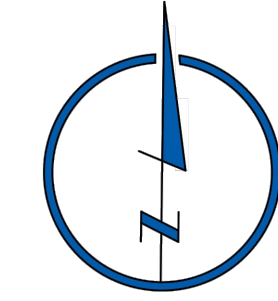
- ① SEDIMENT CONTROL LOG PER DETAIL SHEET GR15
- ② REMOVE AND RE-INSTALL 115 LF OF EXISTING FENCE

EROSION & SEDIMENT CONTROL (EC) LEGEND

- VTC VEHICLE TRACKING CONTROL
- TS TEMPORARY SEEDING (SEE NOTE 9.)
- SEDIMENT CONTROL LOG (SEE NOTE 7.)
- EB (COMPACTED) EARTH BERM (SEE NOTE 8.)
- LIMITS OF DISTURBANCE/ CONSTRUCTION BOUNDARY

GRADING

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- PROPOSED SWALE
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- X4638.00 SPOT ELEVATION



STERLING RANCH LIFT STATION & FORCE MAIN GRADING & EROSION CONTROL PLAN

PROJECT NO. 09-010
 DESIGNED BY: DM
 DRAWN BY: CLP
 CHECKED BY: DM

SCALE: N/A
 HORIZONTAL: N/A
 VERTICAL: N/A

DATE: 01-24-2020
 SHEET 6 OF 15
GR06

102 E. PILES PEAK AVE., 5TH FLOOR
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.9485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF
 M&S CIVIL CONSULTANTS, INC.

MARCIL A. SANCHEZ, COLORADO P.E. NO. 37160

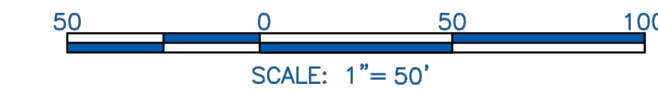
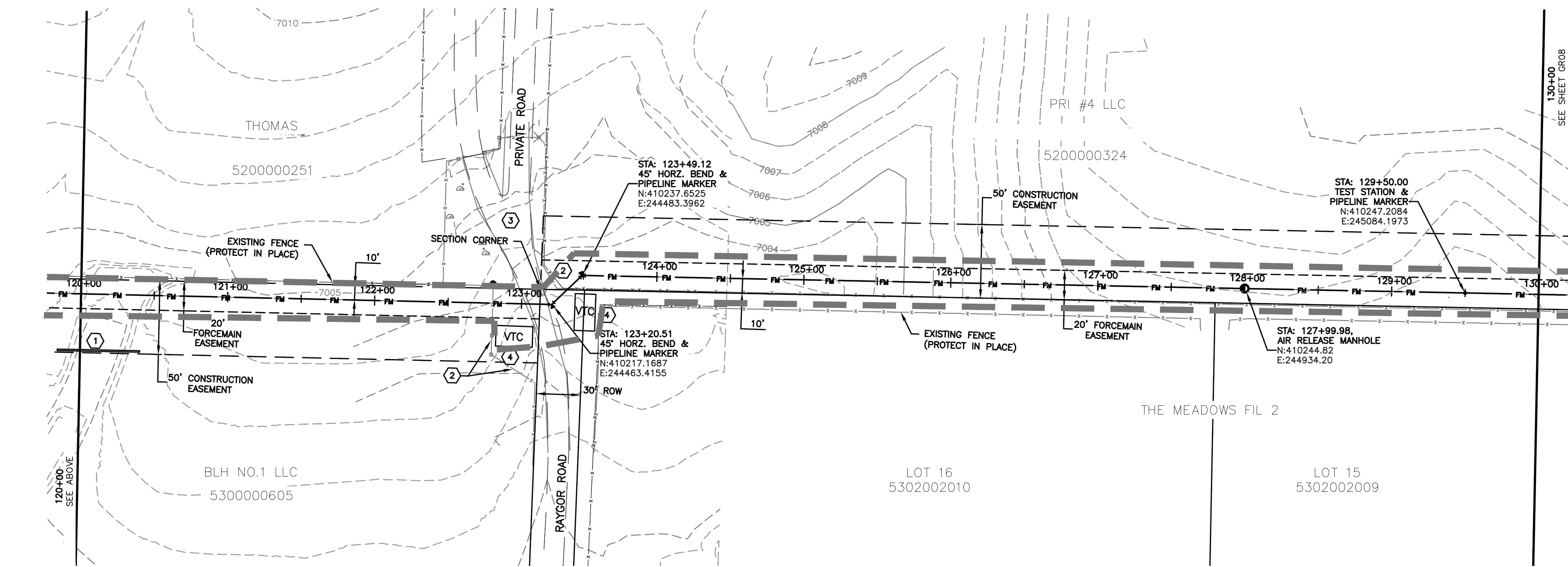
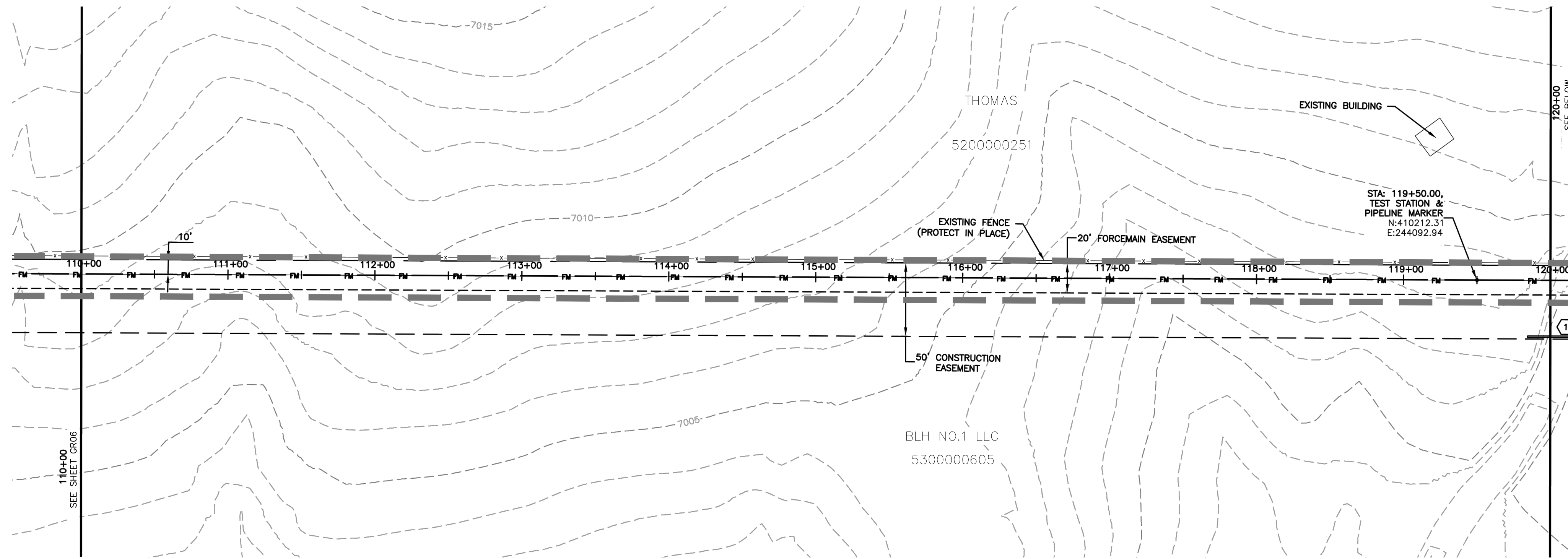
NO.	DATE	BY	DESCRIPTION

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CAUTION

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

FOR BURIED UTILITY INFORMATION
48 HRS BEFORE YOU DIG
 CALL 1-800-922-1987



NOTES:

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KEYNOTES:

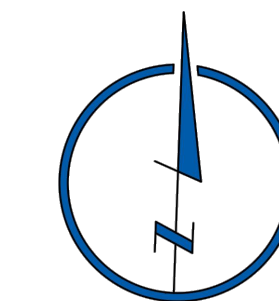
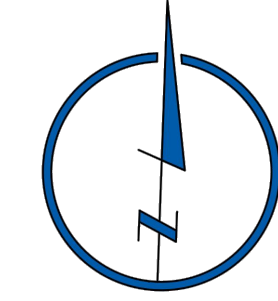
- SEDIMENT CONTROL LOG PER DETAIL SHEET GR15
- REMOVE AND RE-INSTALL 115 LF OF EXISTING FENCE.
- CONTRACTOR SHALL KEEP ACCESS OPEN TO ALL RESIDENTIAL LOTS AT ALL TIMES. CONTRACTOR SHALL NOTIFY AND COORDINATE ACCESS WITH ALL PROPERTY OWNERS.
- VEHICLE TRACKING CONTROL PER SHEET GR15.

EROSION & SEDIMENT CONTROL (EC) LEGEND

- VEHICLE TRACKING CONTROL
- TEMPORARY SEEDING (SEE NOTE 9.)
- SEDIMENT CONTROL LOG (SEE NOTE 7.)
- (COMPACTED) EARTH BERM (SEE NOTE 8.)
- LIMITS OF DISTURBANCE/ CONSTRUCTION BOUNDARY

GRADING

- EXISTING CONTOUR
- PROPOSED SWALE
- GRADE BREAK
- WETLANDS AREA NOT TO BE DISTURBED
- SPOT ELEVATION



STERLING RANCH LIFT STATION & FORCE MAIN GRADING & EROSION CONTROL PLAN		DATE: 01-24-2020
PROJECT NO. 09-010	SCALE: N/A	SHEET 7 OF 15
DESIGNED BY: DM	HORIZONTAL: N/A	GR07
DRAWN BY: CLP	VERTICAL: N/A	
CHECKED BY: DM		

102 E. PILES PEAK AVE., 5TH FLOOR
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF
 M&S CIVIL CONSULTANTS, INC.

Virgil A. Sanchez, Colorado P.E. No. 37160

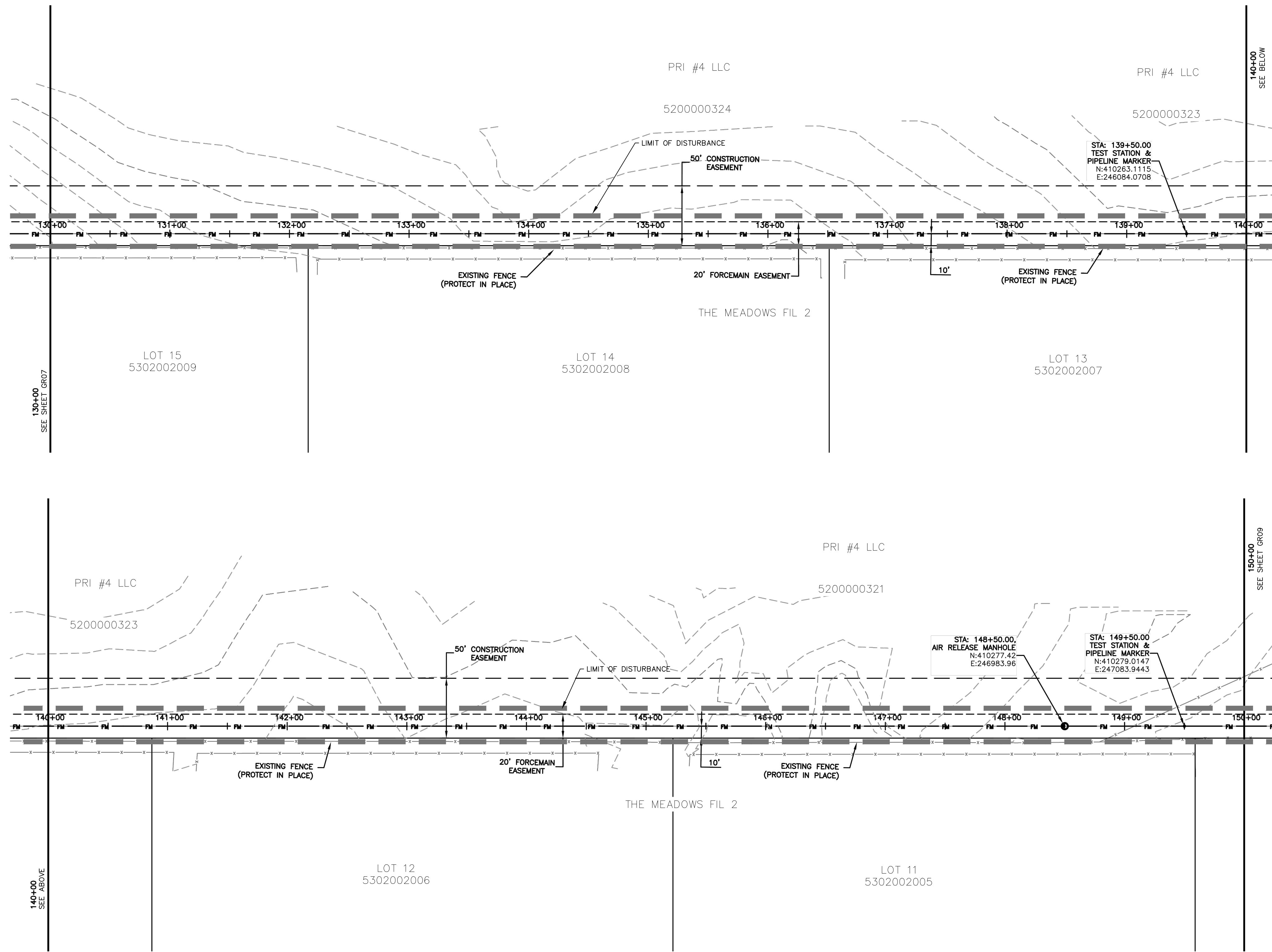
NO.	REVISIONS:	DATE:

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

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EROSION & SEDIMENT CONTROL (EC) LEGEND

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	TEMPORARY SEEDING (SEE NOTE 9.)
	SEDIMENT CONTROL LOG (SEE NOTE 7.)
	(COMPACTED) EARTH BERM (SEE NOTE 8.)
	LIMITS OF DISTURBANCE/ CONSTRUCTION BOUNDARY

GRADING

	EXISTING CONTOUR
	PROPOSED SWALE
	GRADE BREAK
	WETLANDS AREA NOT TO BE DISTURBED
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STERLING RANCH LIFT STATION & FORCE MAIN GRADING & EROSION CONTROL PLAN	
PROJECT NO. 09-010	DATE: 01-24-2020
DESIGNED BY: DM	HORIZONTAL: N/A
DRAWN BY: CLP	VERTICAL: N/A
CHECKED BY: DM	SCALE: N/A
SHEET 8 OF 15 GR08	

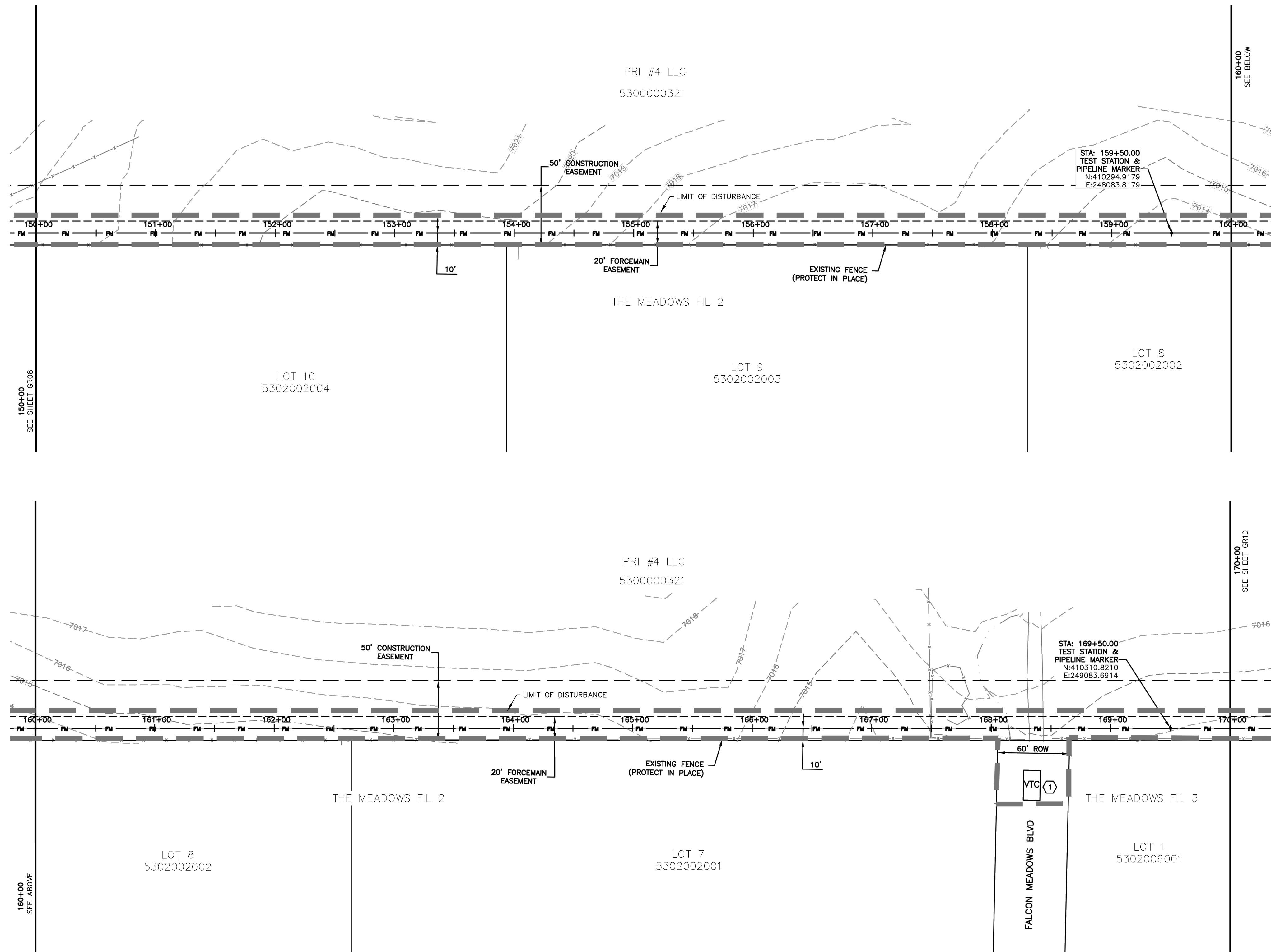
CIVIL CONSULTANTS, INC.
 102 E. PILES PEAK AVE., 5TH FLOOR
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.	
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NO.	REVISIONS:	DATE:

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KEYNOTES:

- ① VEHICLE TRACKING CONTROL PER SHEET GR15

EROSION & SEDIMENT CONTROL (EC) LEGEND

- VEHICLE TRACKING CONTROL
- TEMPORARY SEEDING (SEE NOTE 9.)
- SEDIMENT CONTROL LOG (SEE NOTE 7.)
- (COMPACTED) EARTH BERM (SEE NOTE 8.)
- LIMITS OF DISTURBANCE/ CONSTRUCTION BOUNDARY

GRADING

- EXISTING CONTOUR
- PROPOSED SWALE
- GRADE BREAK
- WETLANDS AREA NOT TO BE DISTURBED
- SPOT ELEVATION

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

FOR BURIED UTILITY INFORMATION
48 HRS BEFORE YOU DIG
 CALL 1-800-922-1987

STERLING RANCH LIFT STATION & FORCE MAIN GRADING & EROSION CONTROL PLAN	
PROJECT NO. 09-010	DATE: 01-24-2020
DESIGNED BY: DM	CHECKED BY: DM
DRAWN BY: CLP	SCALE: N/A
VERIFIED BY: N/A	VERTICAL: N/A
SHEET 9 OF 15	
GR09	

CIVIL CONSULTANTS, INC.

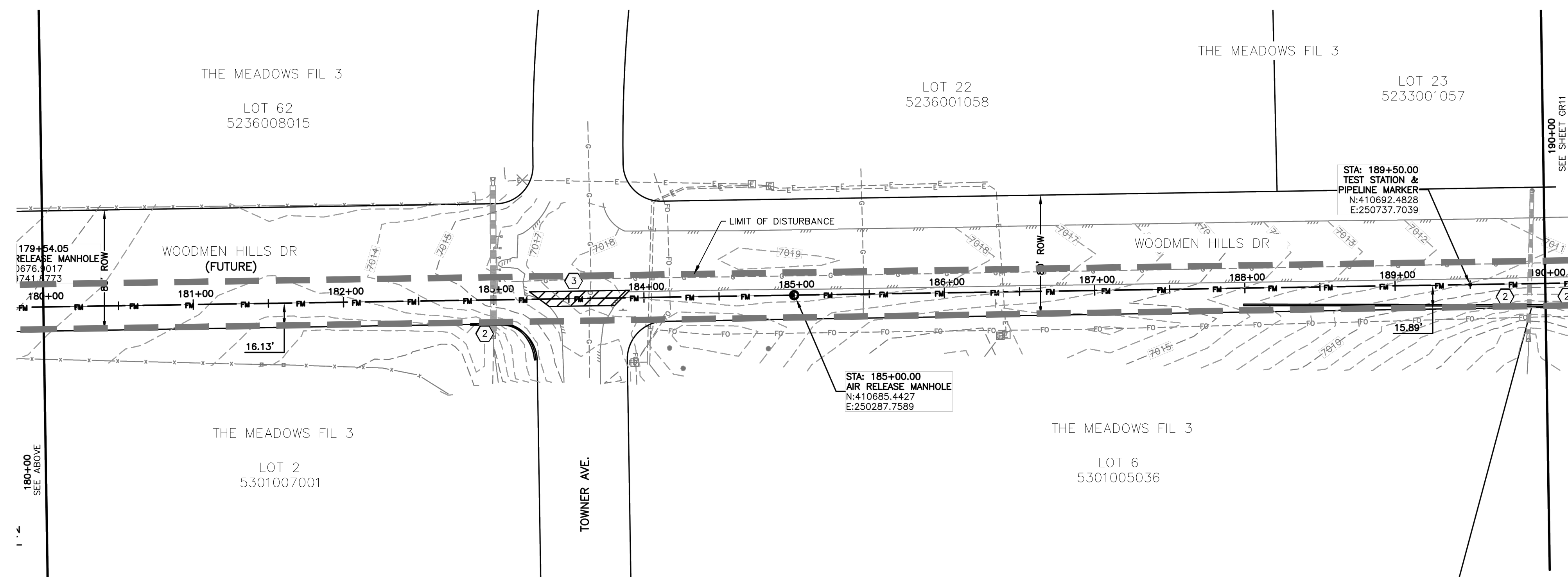
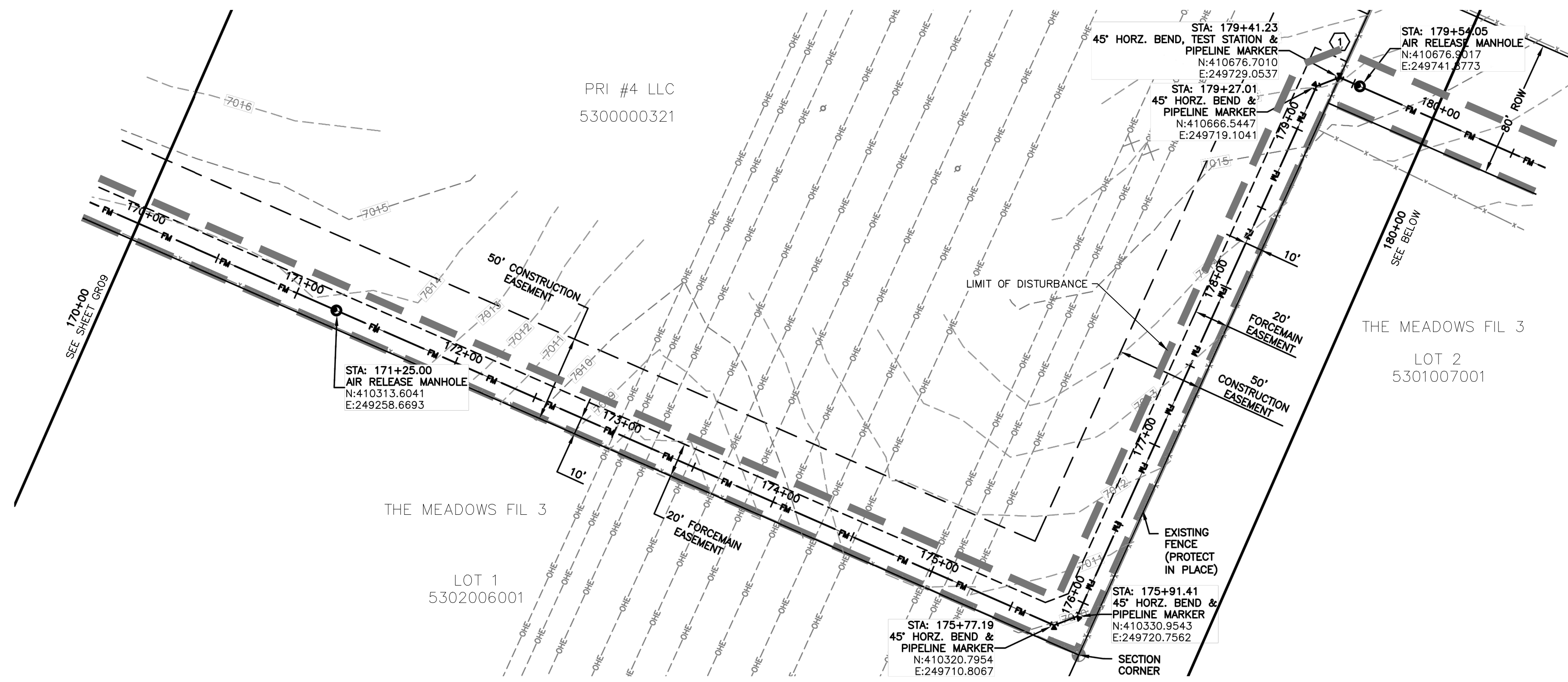
102 E. PILES PEAK AVE., 5TH FLOOR
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

FOR AND ON BEHALF OF
 MARGIL A. SANCHEZ, P.E.
 MARGIL A. SANCHEZ, P.E. NO. 37160
 PROFESSIONAL ENGINEER

NO.	DATE	BY	DESCRIPTION

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION

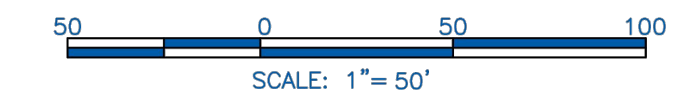


EROSION & SEDIMENT CONTROL (EC) LEGEND

- VEHICLE TRACKING CONTROL
- TEMPORARY SEEDING (SEE NOTE 9.)
- SEDIMENT CONTROL LOG (SEE NOTE 7.)
- (COMPACTED) EARTH BERM (SEE NOTE 8.)
- LIMITS OF DISTURBANCE/ CONSTRUCTION BOUNDARY

GRADING

- EXISTING CONTOUR
- PROPOSED SWALE
- GRADE BREAK
- WETLANDS AREA NOT TO BE DISTURBED
- SPOT ELEVATION



NOTES:

1. SEE SHEET GR01 FOR GENERAL NOTES.
2. STATIONING IS BASED ON THE CENTERLINE BETWEEN THE 8" AND 10" FORCE MAINS.
3. CONTRACTOR SHALL INSTALL THRUST BLOCKS AT ALL HORIZONTAL AND VERTICAL BENDS PER DETAIL.
4. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES WITHIN THE AREA OF WORK 7 DAYS PRIOR TO THE START OF INSTALLATION OF THE PIPELINE. THE CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER OF ANY CONFLICTS THAT ARISE AND REQUIRE REDESIGN OF ANY PORTION OF THE PROJECT. REFER TO GENERAL NOTES FOR FURTHER INFORMATION.
5. CONTRACTOR SHALL BE REQUIRED TO STAY WITHIN THE CONSTRUCTION EASEMENTS AND/OR ROAD RIGHT OF WAY WHEN CONSTRUCTING THE PIPELINE. TRAFFIC CONTROL MEASURES SHALL BE IN PLACE DURING CONSTRUCTION PER EL PASO COUNTY REQUIREMENTS.
6. CONTRACTOR SHALL PROVIDE A MINIMUM 1' OF CLEARANCE BETWEEN ALL UTILITIES UNLESS OTHERWISE NOTED.
7. CONTRACTOR SHALL PLACE SEDIMENT CONTROL LOGS UPSTREAM OF ALL STORM DRAIN PIPES WITHIN THE PROJECT AREA.
8. CONTRACTOR SHALL BLADE A SMALL 6" HIGH BERM ALONG THE DOWNSTREAM SIDE OF TRENCHING OPERATIONS TO CONTROL STORM DRAINAGE FLOWS AND MINIMIZE TRANSPORTATION SEDIMENT DOWNSTREAM. SEE DETAIL SHEET GR15.
9. CONTRACTOR SHALL RESEED ALL AREAS DISTURBED DURING CONSTRUCTION, INCLUDING ANY SOD AND/OR LANDSCAPING.
10. CONTRACTOR SHALL PROTECT IN PLACE OR REMOVE AND REPLACE ANY SIGNS, MAILBOXES, LANDSCAPING, OR OTHER OBSTRUCTIONS DISTURBED DURING CONSTRUCTION.

KEYNOTES:

- ① REMOVE & RE-INSTALL 50 LF OF EXISTING FENCING.
- ② SEDIMENT CONTROL LOG PER DETAIL SHEET GR15
- ③ CONTRACTOR SHALL SAW CUT, REMOVE & REPLACE EXISTING PAVEMENT PER EL PASO COUNTY SPECIFICATIONS.

STERLING RANCH LIFT STATION & FORCE MAIN GRADING & EROSION CONTROL PLAN

PROJECT NO. 09-010 DATE: 01-24-2020

DESIGNED BY: DM DRAWN BY: CLP CHECKED BY: DM

SCALE: HORIZONTAL: N/A VERTICAL: N/A

SHEET 10 OF 15 GR10

102 E. PILES PEAK AVE., 5TH FLOOR
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.5485

CIVIL CONSULTANTS, INC.

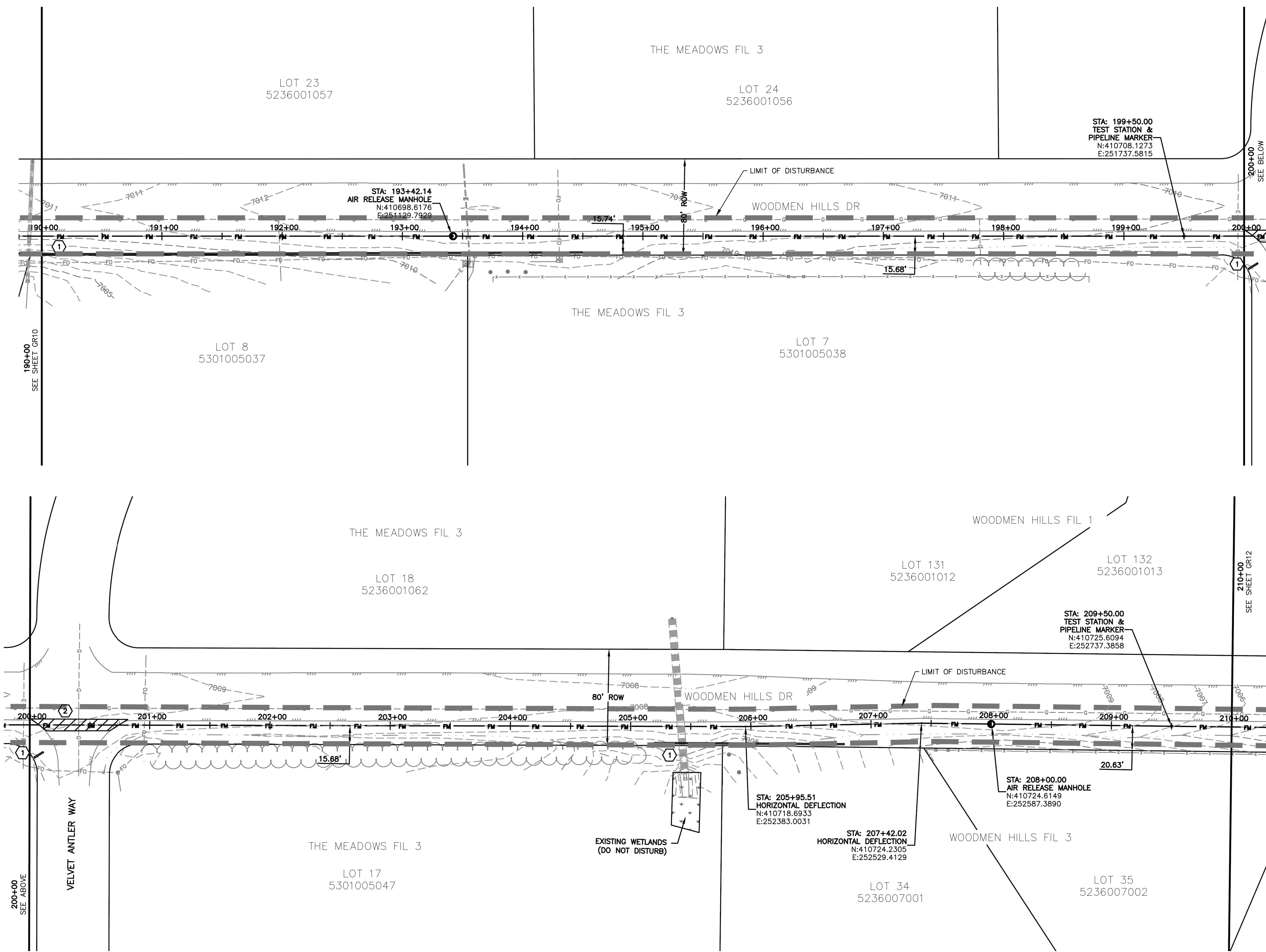
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

MARCIL A. SANCHEZ, COLORADO P.E. NO. 37160

NO.	DATE	BY	DESCRIPTION

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CAUTION



NOTES:

1. SEE SHEET GR01 FOR GENERAL NOTES.
2. STATIONING IS BASED ON THE CENTERLINE BETWEEN THE 8" AND 10" FORCE MAINS.
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9. CONTRACTOR SHALL RESEED ALL AREAS DISTURBED DURING CONSTRUCTION, INCLUDING ANY SOD AND/OR LANDSCAPING.
10. CONTRACTOR SHALL PROTECT IN PLACE OR REMOVE AND REPLACE ANY SIGNS, MAILBOXES, LANDSCAPING, OR OTHER OBSTRUCTIONS DISTURBED DURING CONSTRUCTION.

KEYNOTES:

- ① SEDIMENT CONTROL LOG PER DETAIL SHEET 1GR15
- ② CONTRACTOR SHALL SAW CUT, REMOVE & REPLACE EXISTING PAVEMENT PER EL PASO COUNTY SPECIFICATIONS.

EROSION & SEDIMENT CONTROL (EC) LEGEND

- VEHICLE TRACKING CONTROL
- TEMPORARY SEEDING (SEE NOTE 9.)
- SEDIMENT CONTROL LOG (SEE NOTE 7.)
- (COMPACTED) EARTH BERM (SEE NOTE 8.)
- LIMITS OF DISTURBANCE/ CONSTRUCTION BOUNDARY

GRADING

- EXISTING CONTOUR
- PROPOSED SWALE
- GRADE BREAK
- WETLANDS AREA NOT TO BE DISTURBED
- SPOT ELEVATION
- SPOT ELEVATION WITH DESCRIPTION SEE ABBREVIATIONS THIS SHEET

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

FOR BURIED UTILITY INFORMATION CALL 1-800-922-1987

STERLING RANCH LIFT STATION & FORCE MAIN GRADING & EROSION CONTROL PLAN	
PROJECT NO. 09-010	DATE: 01-24-2020
DESIGNED BY: DM	CHECKED BY: DM
DRAWN BY: CLP	SHEET 11 OF 15
SCALE: HORIZONTAL: N/A	VERTICAL: N/A
GR11	

MAS CIVIL CONSULTANTS, INC.

102 E. PILES PEAK AVE., 5TH FLOOR
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.9485

FOR AND ON BEHALF OF MAS CIVIL CONSULTANTS, INC.






MARGOL A. SANCHEZ, P.E. NO. 37160

NO.	DATE	BY	DESCRIPTION


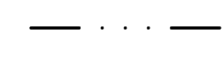
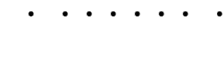

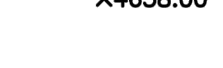
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION

EROSION & SEDIMENT CONTROL (EC) LEGEND

	VEHICLE TRACKING CONTROL
	TEMPORARY SEEDING (SEE NOTE 9.)
	SEDIMENT CONTROL LOG (SEE NOTE 7.)
	(COMPACTED) EARTH BERM (SEE NOTE 8.)
	LIMITS OF DISTURBANCE/ CONSTRUCTION BOUNDARY

GRADING

	EXISTING CONTOUR
	PROPOSED SWALE
	GRADE BREAK
	WETLANDS AREA NOT TO BE DISTURBED
	SPOT ELEVATION

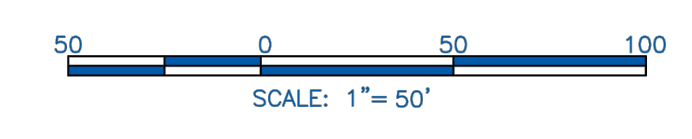
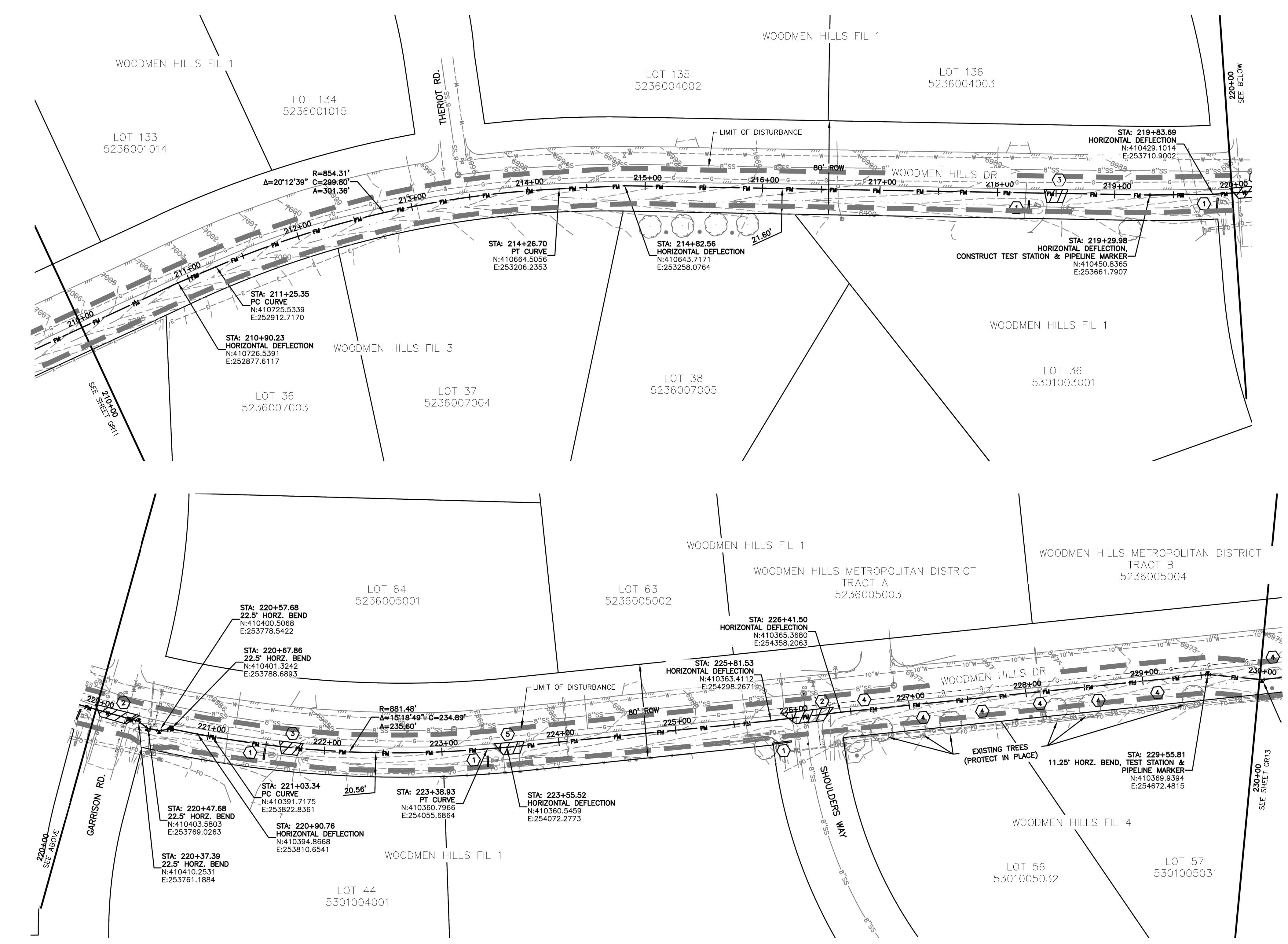


FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

FOR BURIED UTILITY INFORMATION
48 HRS BEFORE YOU DIG
CALL 1-800-922-1987

REVISIONS:

NO.	DATE	BY	DESCRIPTION



NOTES:

1. SEE SHEET GR01 FOR GENERAL NOTES.
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3. CONTRACTOR SHALL INSTALL THRUST BLOCKS AT ALL HORIZONTAL AND VERTICAL BENDS PER DETAIL.
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10. CONTRACTOR SHALL PROTECT IN PLACE OR REMOVE AND REPLACE ANY SIGNS, MAILBOXES, LANDSCAPING, OR OTHER OBSTRUCTIONS DISTURBED DURING CONSTRUCTION.

KEYNOTES:

- ① SEDIMENT CONTROL LOG PER DETAIL SHEET GR15
- ② CONTRACTOR SHALL SAW CUT, REMOVE, & REPLACE EXISTING PAVEMENT PER EL PASO COUNTY SPECIFICATIONS.
- ③ CONTRACTOR SHALL SAW CUT, REMOVE AND REPLACE EXISTING CONCRETE DRIVEWAY.
- ④ CONTRACTOR SHALL REMOVE AND REPLACE EXISTING DECORATIVE FENCE.
- ⑤ CONTRACTOR SHALL REMOVE AND REPLACE EXISTING GRAVEL DRIVEWAY.

STERLING RANCH LIFT STATION & FORCE MAIN GRADING & EROSION CONTROL PLAN

PROJECT NO. 09-010

SCALE: N/A

DATE: 01-24-2020

DESIGNED BY: DM

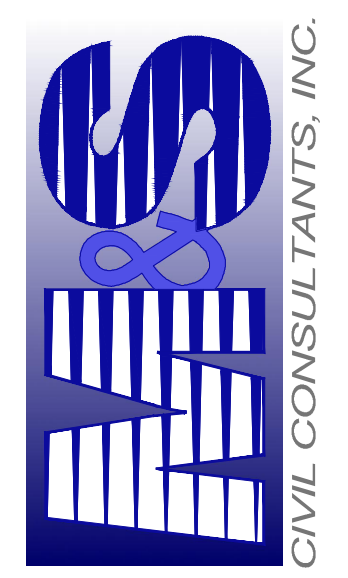
CHECKED BY: DM

DRAWN BY: CLP

SHEET 12 OF 15


GR12

102 E. PILES PEAK AVE., 5TH FLOOR
COLORADO SPRINGS, CO 80903
PHONE: 719.555.5485



CIVIL CONSULTANTS, INC.

FOR AND ON BEHALF OF
M&S CIVIL CONSULTANTS, INC.

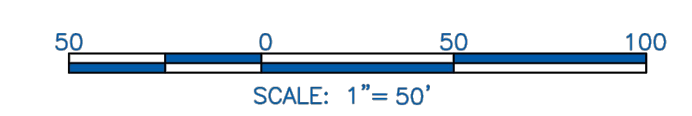
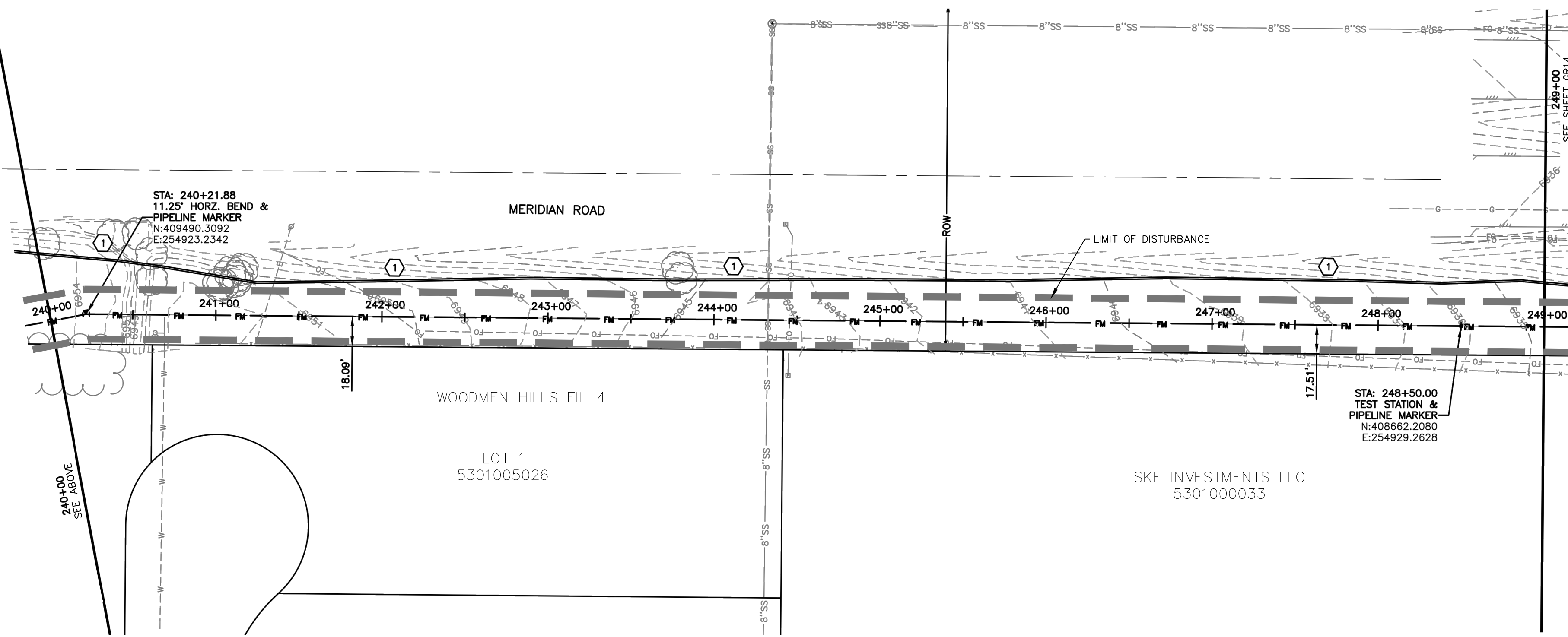
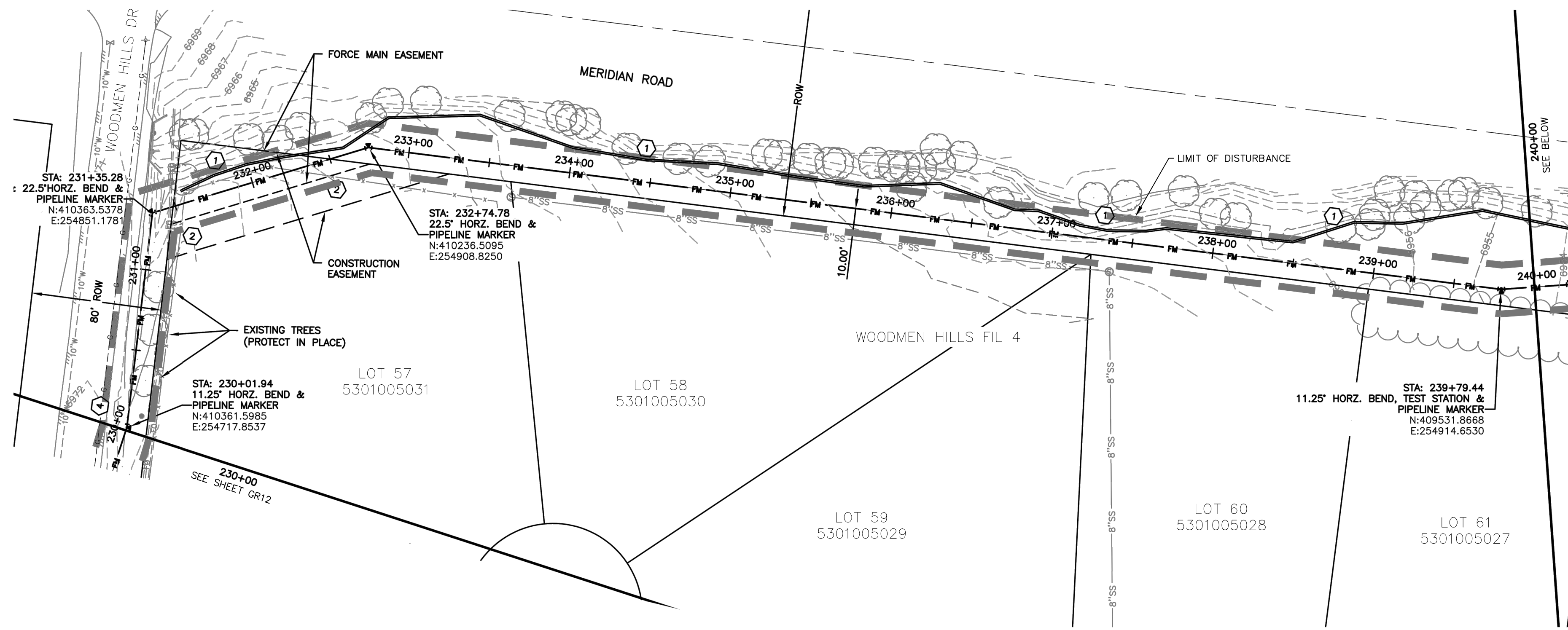


ARCHIT. A. SANCHEZ, COLORADO P.E. NO. 37160

APPROVED BY: _____ DATE: _____

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

CAUTION



- NOTES:**
- SEE SHEET GR01 FOR GENERAL NOTES.
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 - CONTRACTOR SHALL PLACE SEDIMENT CONTROL LOSS UPSTREAM OF ALL STORM DRAIN PIPES WITHIN THE PROJECT AREA.
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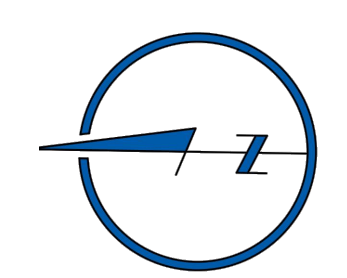
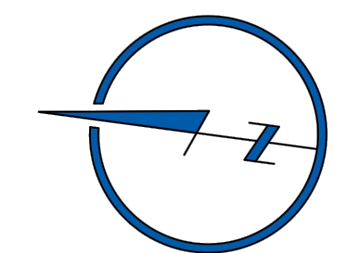
- KEYNOTES:**
- SEDIMENT CONTROL LOG PER DETAIL SHEET GR15.
 - REMOVE AND REPLACE 180 L.F. OF EXISTING FENCE.
 - NOT USED.
 - CONTRACTOR SHALL REMOVE AND RE-INSTALL EXISTING DECORATIVE FENCE.

EROSION & SEDIMENT CONTROL (EC) LEGEND

	VEHICLE TRACKING CONTROL
	TEMPORARY SEEDING (SEE NOTE 9.)
	SEDIMENT CONTROL LOG (SEE NOTE 7.)
	(COMPACTED) EARTH BERM (SEE NOTE 8.)
	LIMITS OF DISTURBANCE / CONSTRUCTION BOUNDARY

GRADING

	EXISTING CONTOUR
	PROPOSED SWALE
	GRADE BREAK
	WETLANDS AREA NOT TO BE DISTURBED
	SPOT ELEVATION
	SPOT ELEVATION WITH DESCRIPTION SEE ABBREVIATIONS THIS SHEET



STERLING RANCH LIFT STATION & FORCE MAIN GRADING & EROSION CONTROL PLAN	
PROJECT NO. 09-010	DATE: 01-24-2020
DESIGNED BY: DM	CHECKED BY: DM
DRAWN BY: CLP	SCALE: N/A
DATE: 01-24-2020	SHEET 13 OF 15
GR13	

102 E. PILES PEAK AVE., 5TH FLOOR
 COLORADO SPRINGS, CO 80903
 PHONE: 719.555.9485

CIVIL CONSULTANTS, INC.

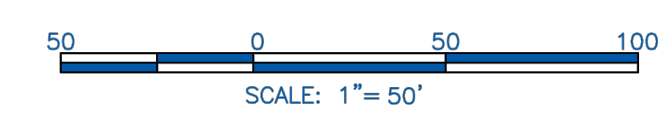
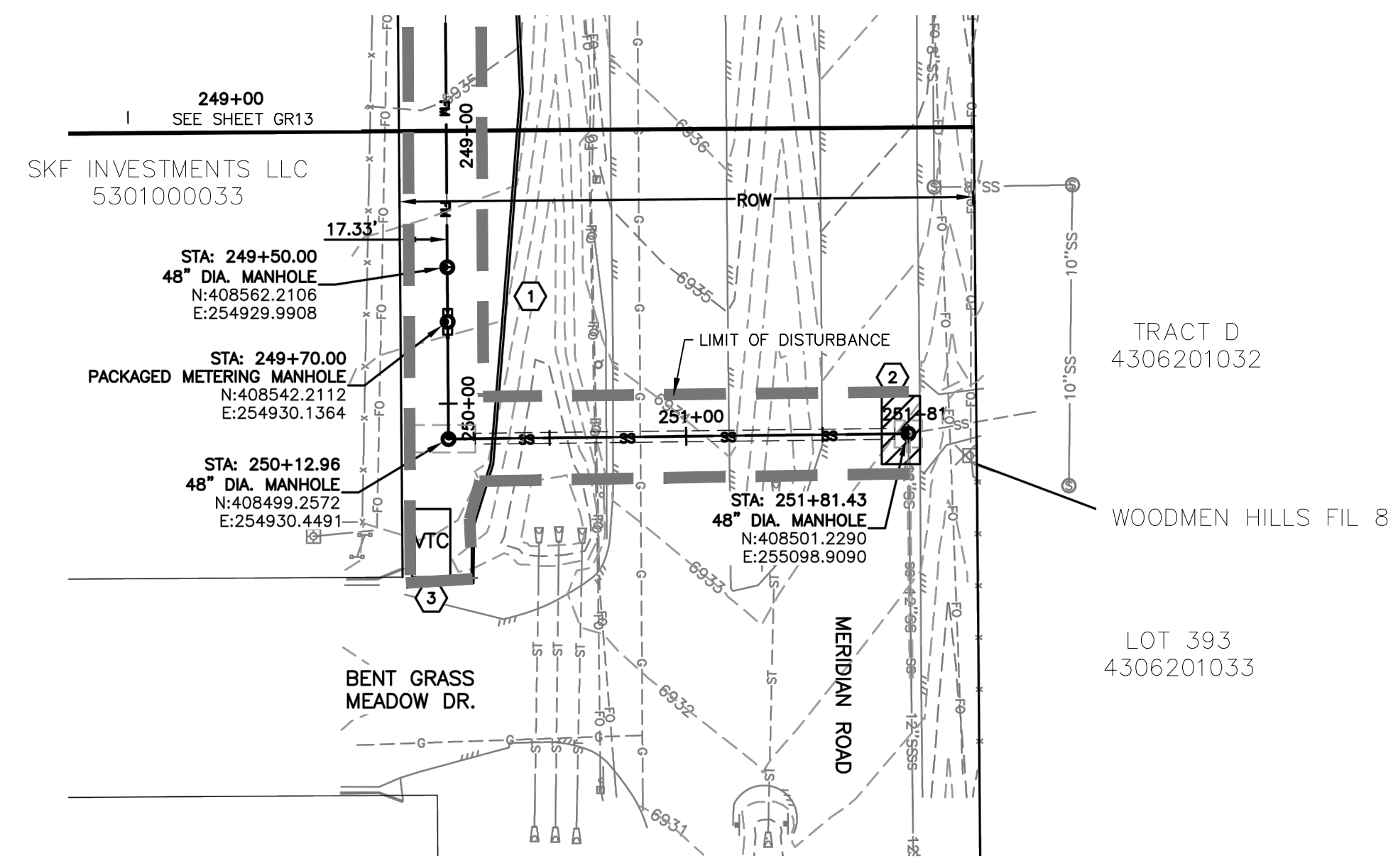
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC.

NO.	DATE	BY	DESCRIPTION

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987

CAUTION



NOTES:

1. SEE SHEET GR01 FOR GENERAL NOTES.
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KEYNOTES:

- ① SEDIMENT CONTROL LOG PER DETAIL SHEET GR15
- ② CONTRACTOR SHALL SAW CUT, REMOVE & REPLACE EXISTING PAVEMENT PER EL PASO COUNTY SPECIFICATIONS.
- ③ VEHICLE TRACKING CONTROL PER SHEET GR15.

EROSION & SEDIMENT CONTROL (EC) LEGEND


<p>VTC</p> <p>TS</p> <p>EB</p>	<p>VEHICLE TRACKING CONTROL</p> <p>TEMPORARY SEEDING (SEE NOTE 9.)</p> <p>SEDIMENT CONTROL LOG (SEE NOTE 7.)</p> <p>(COMPACTED) EARTH BERM (SEE NOTE 8.)</p> <p>LIMITS OF DISTURBANCE/ CONSTRUCTION BOUNDARY</p>
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GRADING

<p>EXISTING CONTOUR</p> <p>PROPOSED SWALE</p> <p>GRADE BREAK</p> <p>WETLANDS AREA NOT TO BE DISTURBED</p> <p>SPOT ELEVATION</p>	<p>×4638.00</p>
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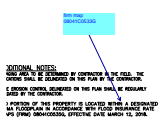


 FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES
**FOR BURIED UTILITY INFORMATION
 48 HRS BEFORE YOU DIG
 CALL 1-800-922-1987**

STERLING RANCH LIFT STATION & FORCE MAIN GRADING & EROSION CONTROL PLAN		DATE: 01-24-2020	SHEET 14 OF 15	GR14
PROJECT NO. 09-010	SCALE: HORIZONTAL: N/A VERTICAL: N/A	DESIGNED BY: DM	DRAWN BY: CLP	CHECKED BY: DM
102 E. PILES PEAK AVE., 5TH FLOOR COLORADO SPRINGS, CO 80903 PHONE: 719.555.9485  CIVIL CONSULTANTS, INC.				
FOR AND ON BEHALF OF M&S CIVIL CONSULTANTS, INC. 				
REVISIONS: NO. DATE BY DESCRIPTION				
THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.				
CAUTION				

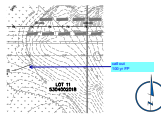
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dsdnijkamp (4)



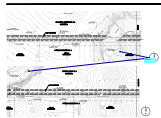
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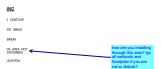
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call out
100 yr FP



Subject: Contractor
Page Label: [1] GR03
Author: dsdnijkamp
Date: 2/12/2020 7:58:11 AM
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firm map 08041C0533G



Subject: Contractor
Page Label: [1] GR02
Author: dsdnijkamp
Date: 2/12/2020 8:40:15 AM
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Color: ■
Layer:
Space:

how are you installing through this area? typ all wetlands and floodplain if you are not to disturb?