

**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 TIMES 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 ESQCP 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 QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP-TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED 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  
 WOOD - PERMITS  
 4300 CHERRY CREEK DRIVE SOUTH  
 DENVER, CO 80246-1530  
 ATTN: PERMITS UNIT

# STERLING RANCH LIFT STATION AND FORCE MAIN

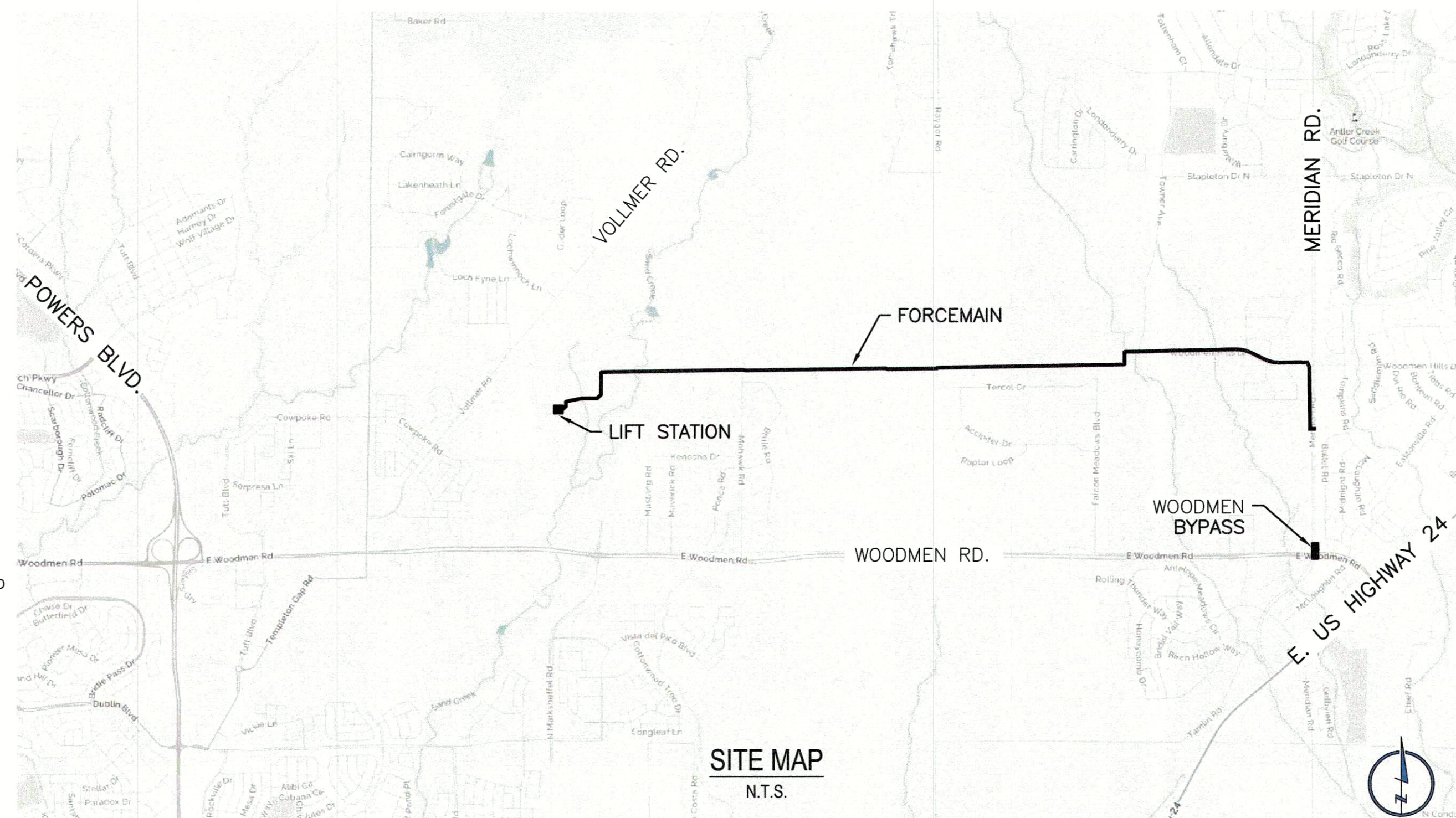
## COUNTY OF EL PASO, STATE OF COLORADO

# 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 TEACOUT 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  
11140 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

**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) 08041C0533G AND 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.  
INSTALLATION OF THE FORCE MAIN SHALL BE LIMITED TO THE DISTURBANCE AREA SHOWN ON THESE PLANS AND WETLAND MITIGATION AS OUTLINED IN THE 404 PERMIT.

**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: 410154.8270  
EASTING: 239010.5240  
ELEVATION: 7028.15  
DESCRIPTION: 2 1/2" ALUM CAP W/ 3/4" 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 3/5/2020

**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 DATE 3/5/2020  
SR LAND, LLC  
20 BOULDER CRESCENT, SUITE 201  
COLORADO SPRINGS, CO 80903  
(719) 471-1742

**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

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 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.

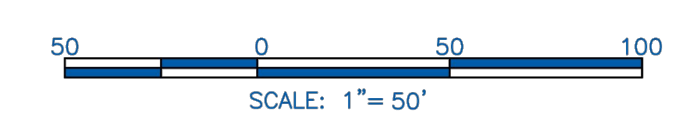
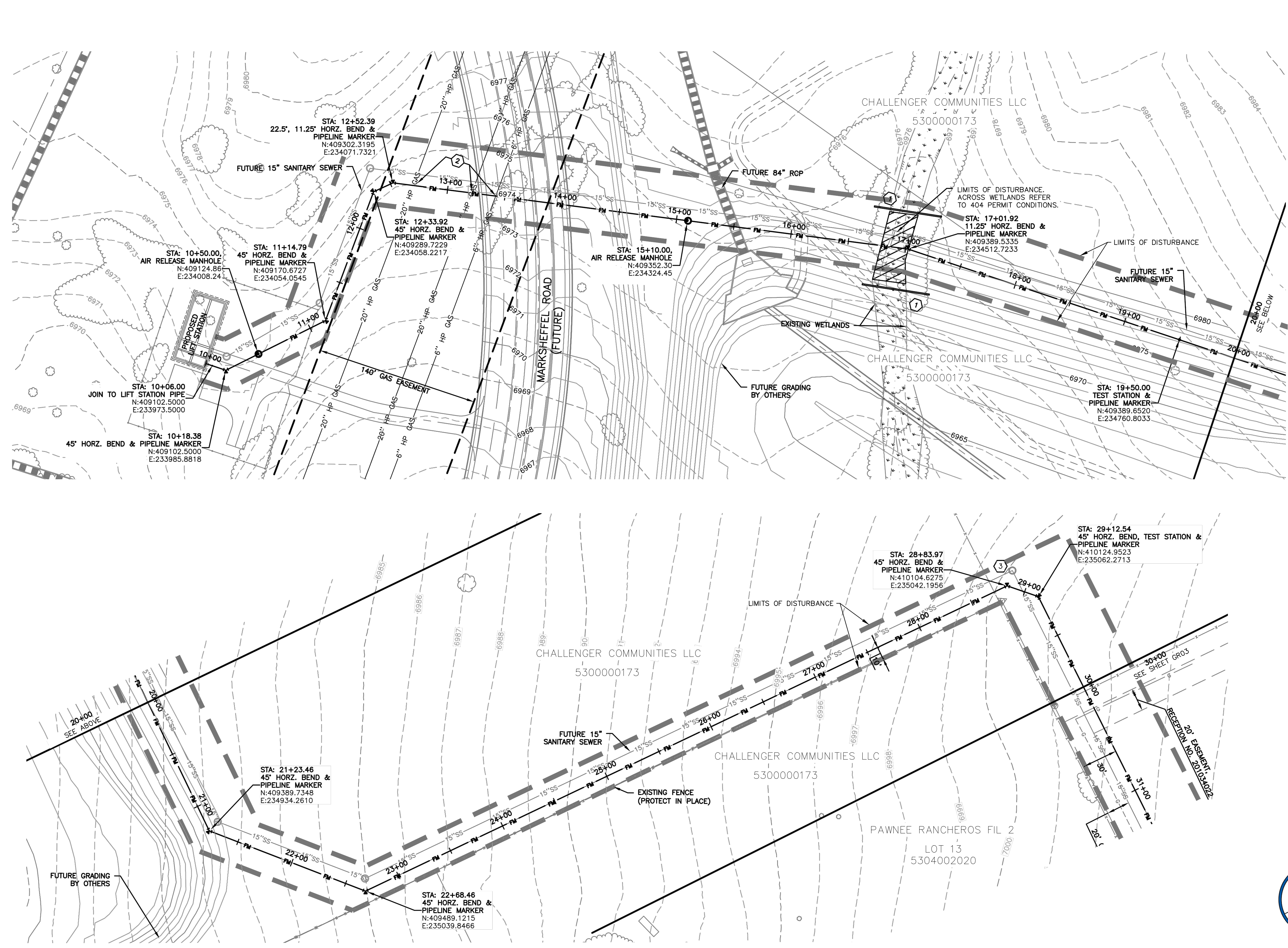
VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160

APPROVED BY: DATE: 3/5/2020

DESCRIPTION:

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR UNAUTHORIZED CHANGES TO OR REVISIONS TO 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 GR03 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 BENDS 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.
11. CONTRACTOR SHALL PROTECT AREAS OUTSIDE THE CONSTRUCTION LIMITS WITH CONSTRUCTION FENCING OR OTHER METHODS AS APPROPRIATE.
12. PER THIS PLAN, NO GRADING IS PROPOSED OUTSIDE THE CONSTRUCTION LIMITS OR EASEMENT AREA.
13. CONTRACTOR SHALL REPLACE THE AREA OF CONSTRUCTION TO THE EXISTING, PRE-CONSTRUCTION GRADE.
14. CONTRACTOR SHALL USE THE CONSTRUCTION CORRIDOR FOR HEAVY EQUIPMENT ACCESS. STAGING, STORAGE OF MATERIALS, STOCKPILES, OR WASTES SHALL REMAIN ON THE STERLING RANCH PROPERTY IN LOCATIONS ALREADY BEING USED.
15. THE EXISTING VEGETATION CONSISTS OF NATIVE GRASSES AND SHRUBS. THIS PROJECT CONTAINS APPROXIMATELY 95% NATIVE VEGETATION AND 5% ROADWAYS.

**KEYNOTE:**

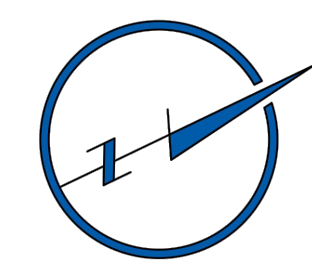
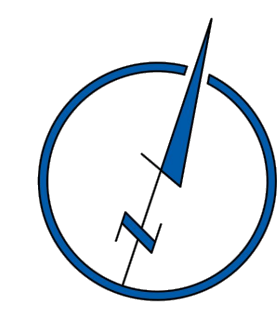
- ① SEDIMENT CONTROL LOG PER DETAIL SHEET GR15
- ② CONTRACTOR SHALL COORDINATE AND OBTAIN PERMITS WITH THE UTILITY COMPANIES PRIOR TO CONSTRUCTION AND CROSSING THE EXISTING HIGH PRESSURE GAS MAIN.
  - A. COLORADO INTERSTATE GAS (719) 520-4816
  - B. MACELLAN MIDSTREAM GAS (918) 574-7098
- ③ REMOVE AND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

**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**

PROJECT NO. 09-010  
 SCALE: N/A  
 DESIGNED BY: DM  
 DRAWN BY: CLP  
 CHECKED BY: DM

DATE: 01-24-2020  
 SHEET 2 OF 15  
**GR02**

102 E. Pikes Peak Ave., 3rd Floor  
 Colorado Springs, CO 80903  
 PHONE: 719.555.5485

**CIVIL CONSULTANTS, INC.**

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

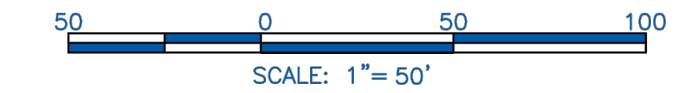
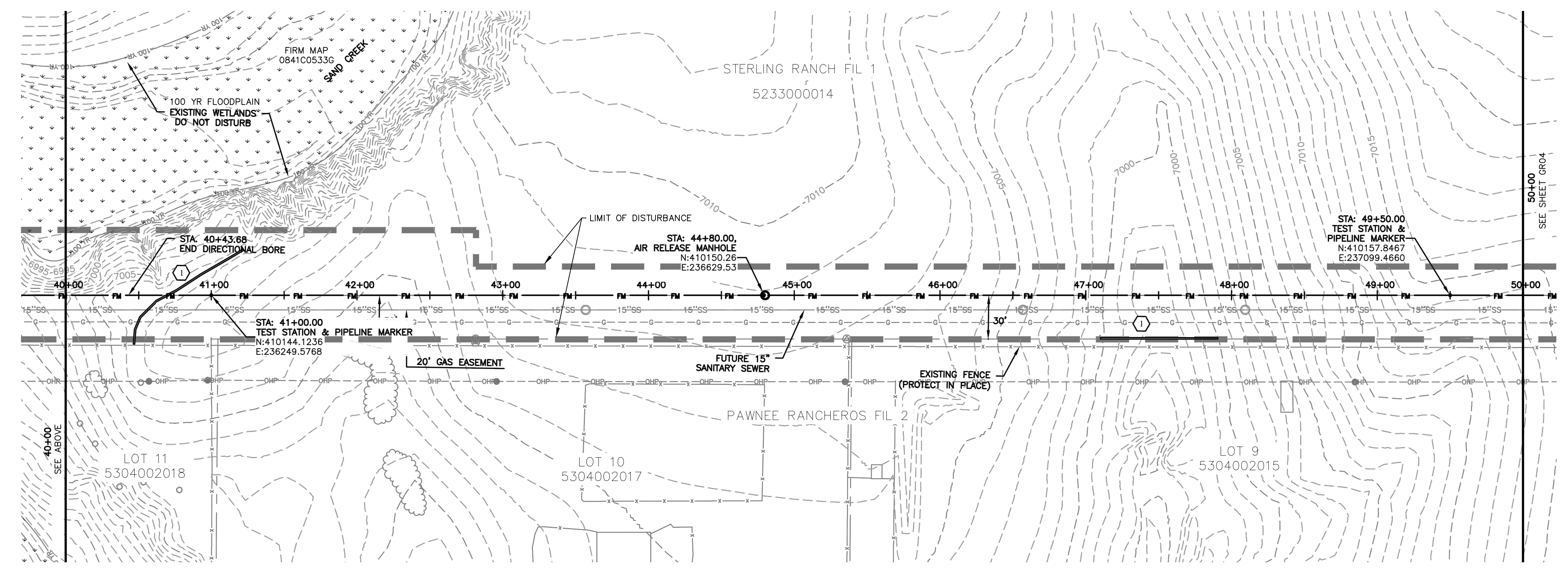
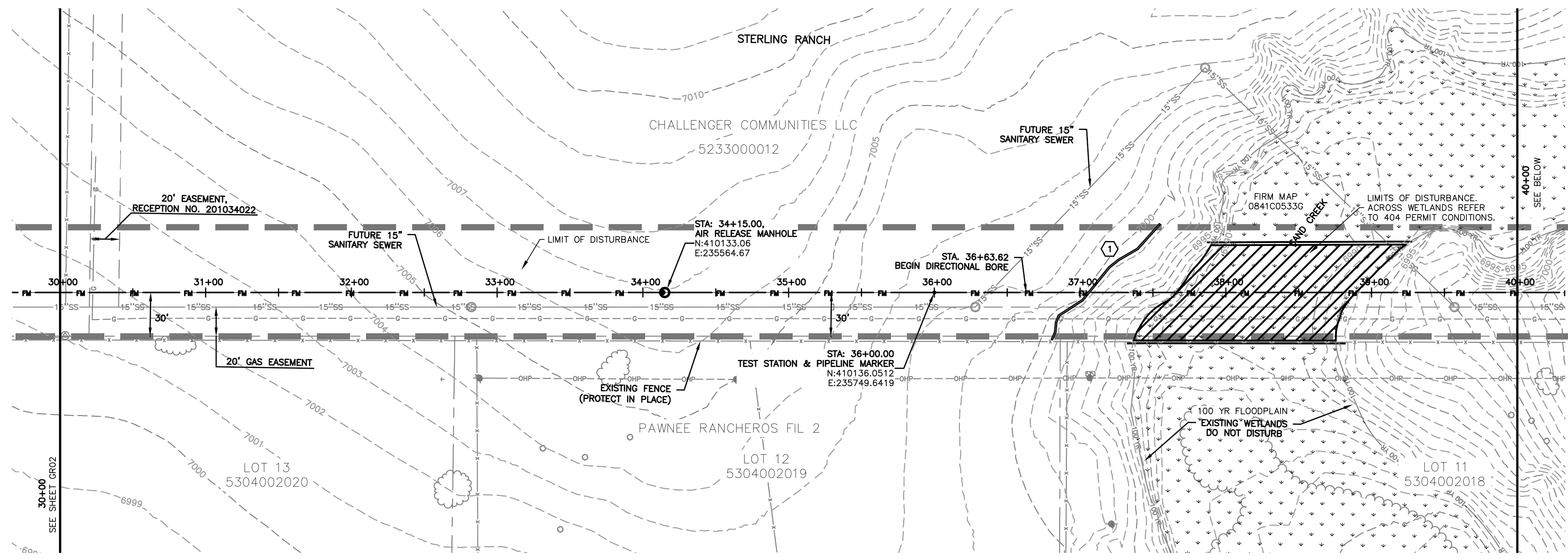
PROFESSIONAL ENGINEER  
 VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160

NO.	DATE	BY	DESCRIPTION

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

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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**KEYNOTE:**

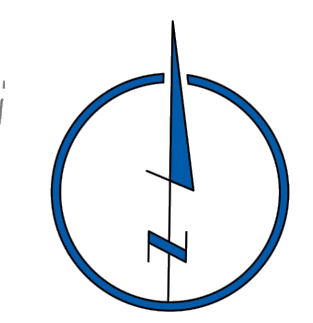
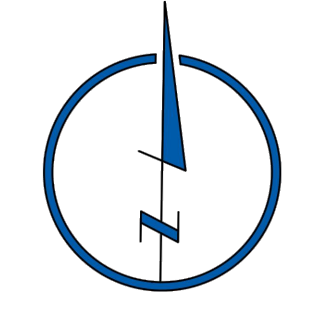
- ① SEDIMENT CONTROL LOG PER DETAIL SHEET GR15

**EROSION & SEDIMENT CONTROL (EC) LEGEND**

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

**GRADING**

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



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

**CIVIL CONSULTANTS, INC.**

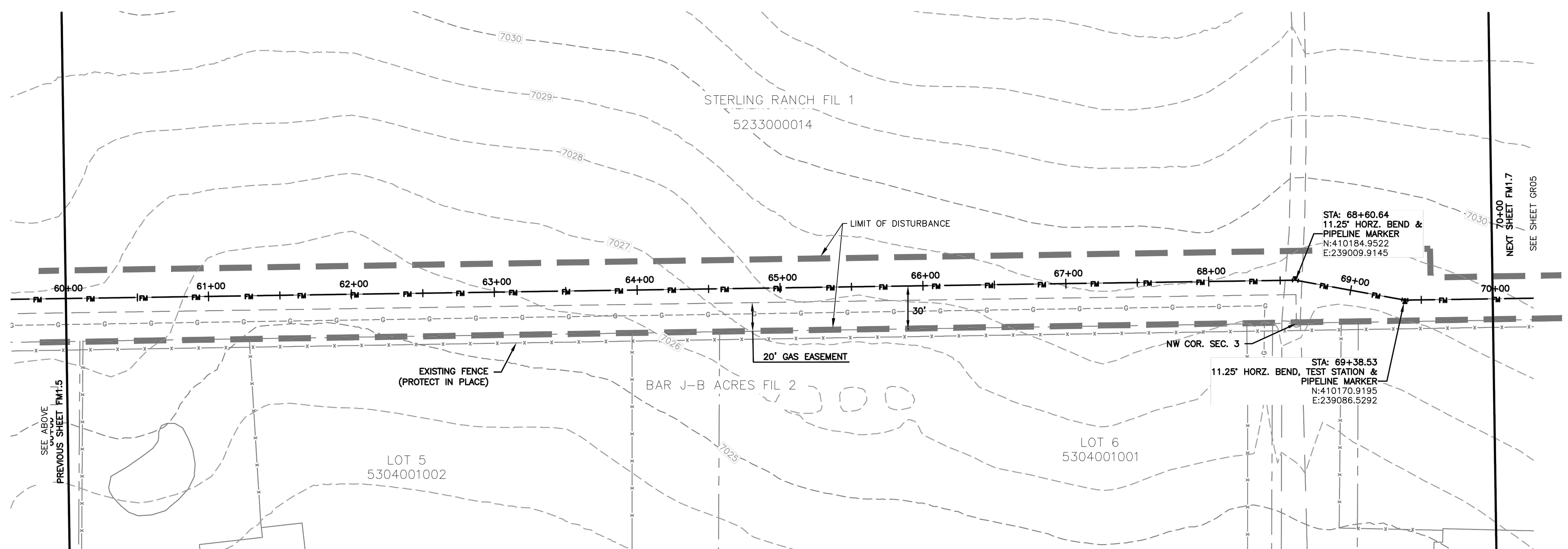
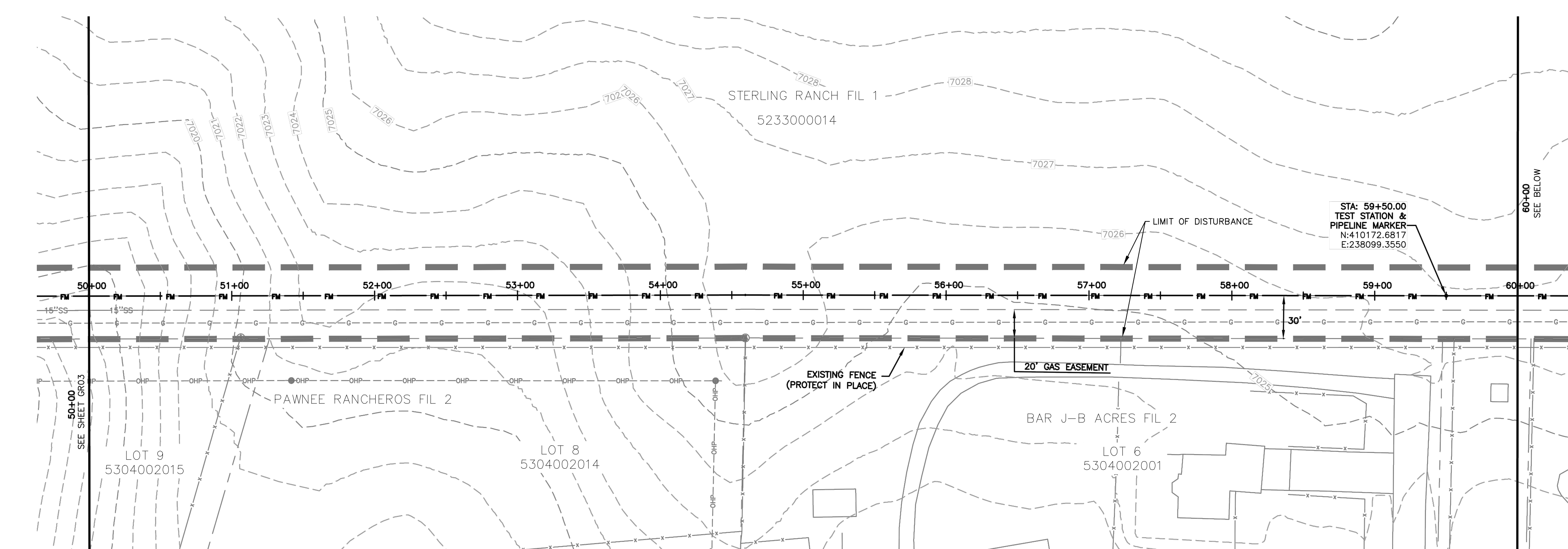
FOR AND ON BEHALF OF  
 M&S CIVIL CONSULTANTS, INC.

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

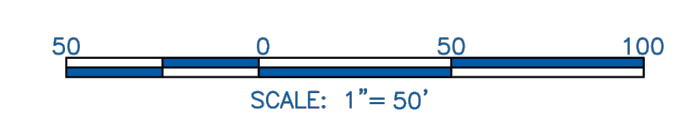
NO.	DATE	BY	DESCRIPTION

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

CAUTION



EROSION & SEDIMENT CONTROL (EC) LEGEND		GRADING	
	VEHICLE TRACKING CONTROL		EXISTING CONTOUR
	TEMPORARY SEEDING (SEE NOTE 9.)		PROPOSED SWALE
	SEDIMENT CONTROL LOG (SEE NOTE 7.)		GRADE BREAK
	(COMPACTED) EARTH BERM (SEE NOTE 8.)		WETLANDS AREA NOT TO BE DISTURBED
	LIMITS OF DISTURBANCE/ CONSTRUCTION BOUNDARY/EASEMENT		SPOT ELEVATION



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

102 E. Pikes Peak Ave., 3rd Floor  
 Colorado Springs, CO 80903  
 PHONE: 719.555.5485

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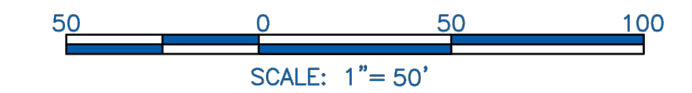
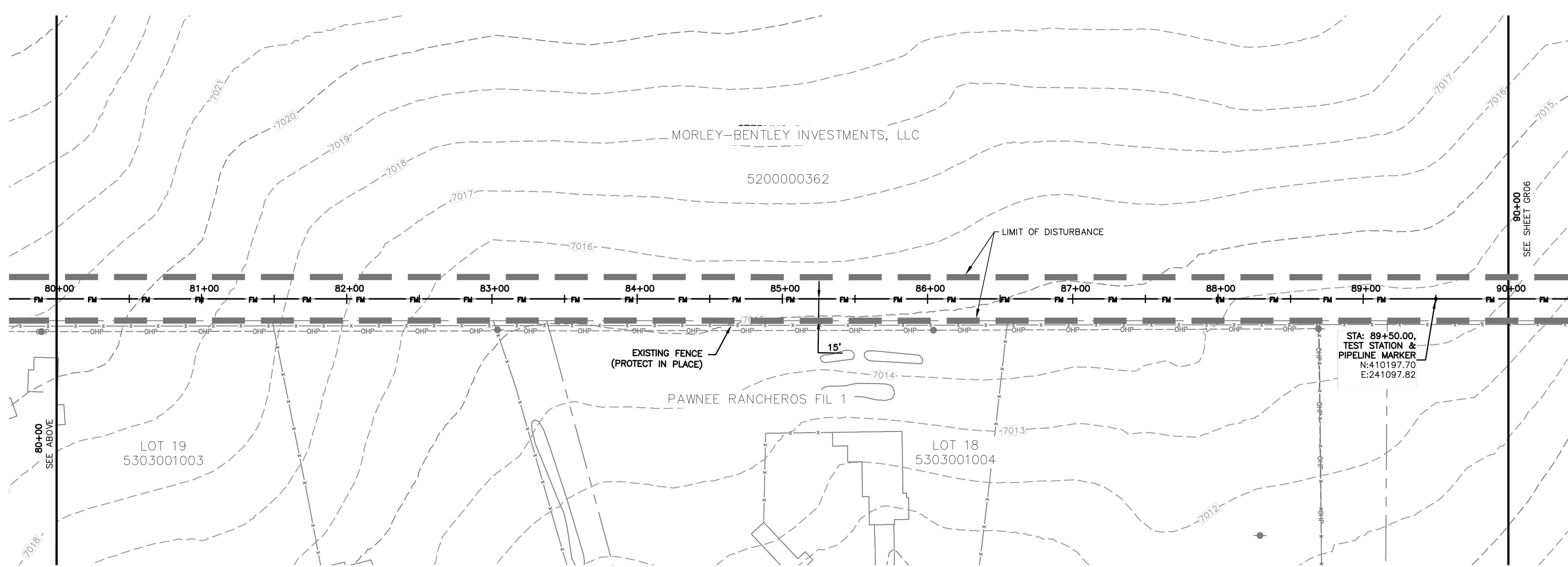
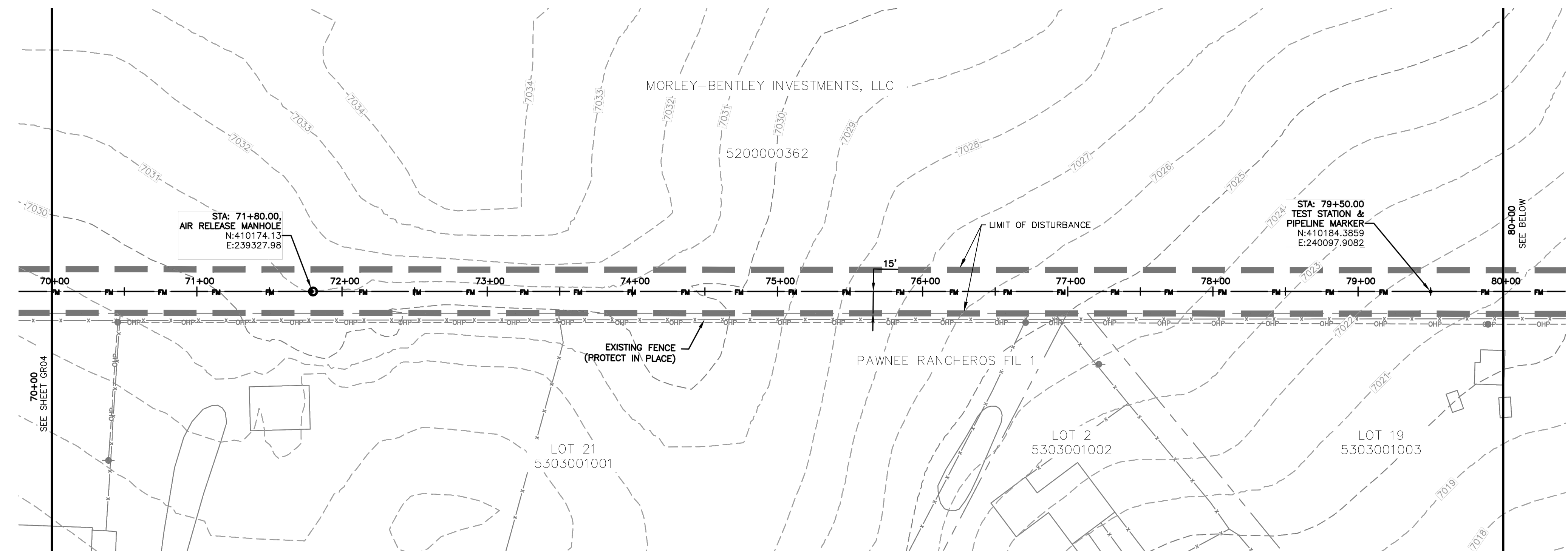
FOR AND ON BEHALF OF  
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NO.	DATE	BY	DESCRIPTION

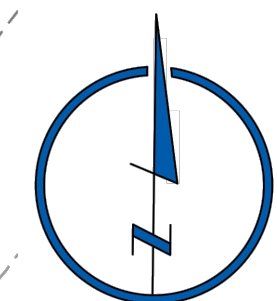
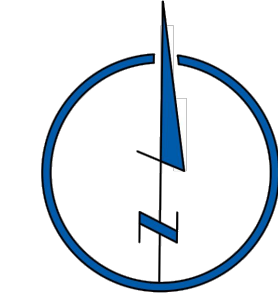
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**CAUTION**



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**EROSION & SEDIMENT CONTROL (EC) LEGEND**

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- SEDIMENT CONTROL LOG (SEE NOTE 7.)
- EB (COMPACTED) EARTH BERM (SEE NOTE 8.)
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**GRADING**

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

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<b>STERLING RANCH LIFT STATION &amp; FORCE MAIN</b>	
<b>GRADING &amp; EROSION CONTROL PLAN</b>	
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 5 OF 15	
<b>GR05</b>	

**CIVIL CONSULTANTS, INC.**

102 E. Pikes Peak Ave., 5th Floor  
Colorado Springs, CO 80903  
PHONE: 719.555.5485

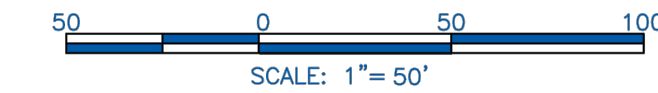
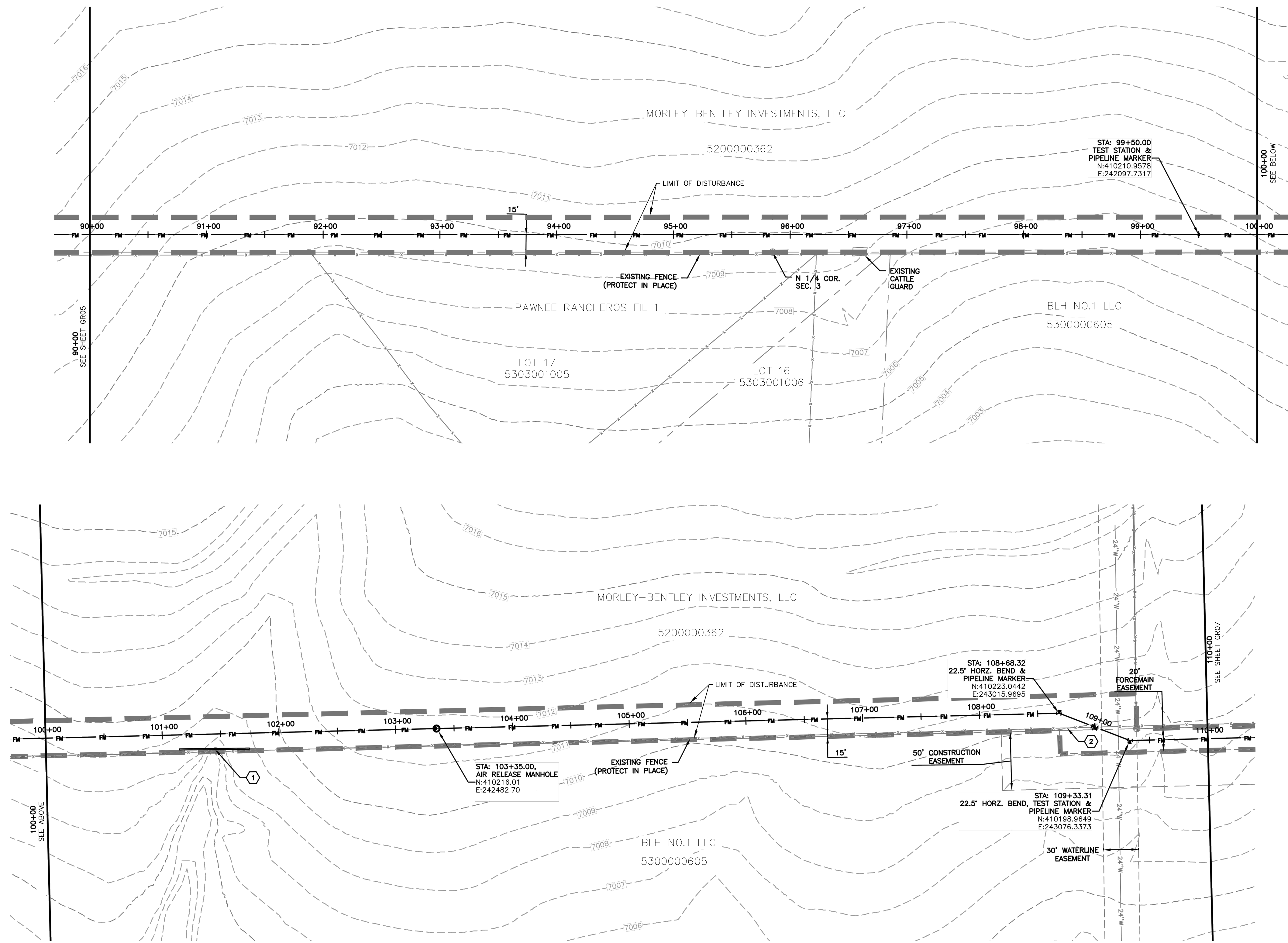
FOR AND ON BEHALF OF  
M&S CIVIL CONSULTANTS, INC.

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

NO.	DATE	BY	DESCRIPTION

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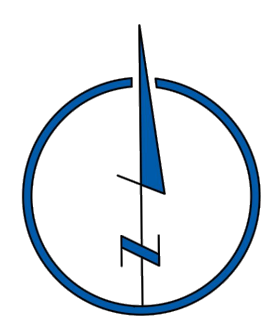
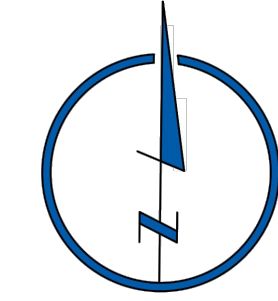
- ① SEDIMENT CONTROL LOG PER DETAIL SHEET GR15
- ② REMOVE AND RE-INSTALL 115 LF OF EXISTING FENCE

**EROSION & SEDIMENT CONTROL (EC) LEGEND**

- VTC VEHICLE TRACKING CONTROL
- TS TEMPORARY SEEDING (SEE NOTE 9.)
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**GRADING**

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



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 Colorado Springs, CO 80903  
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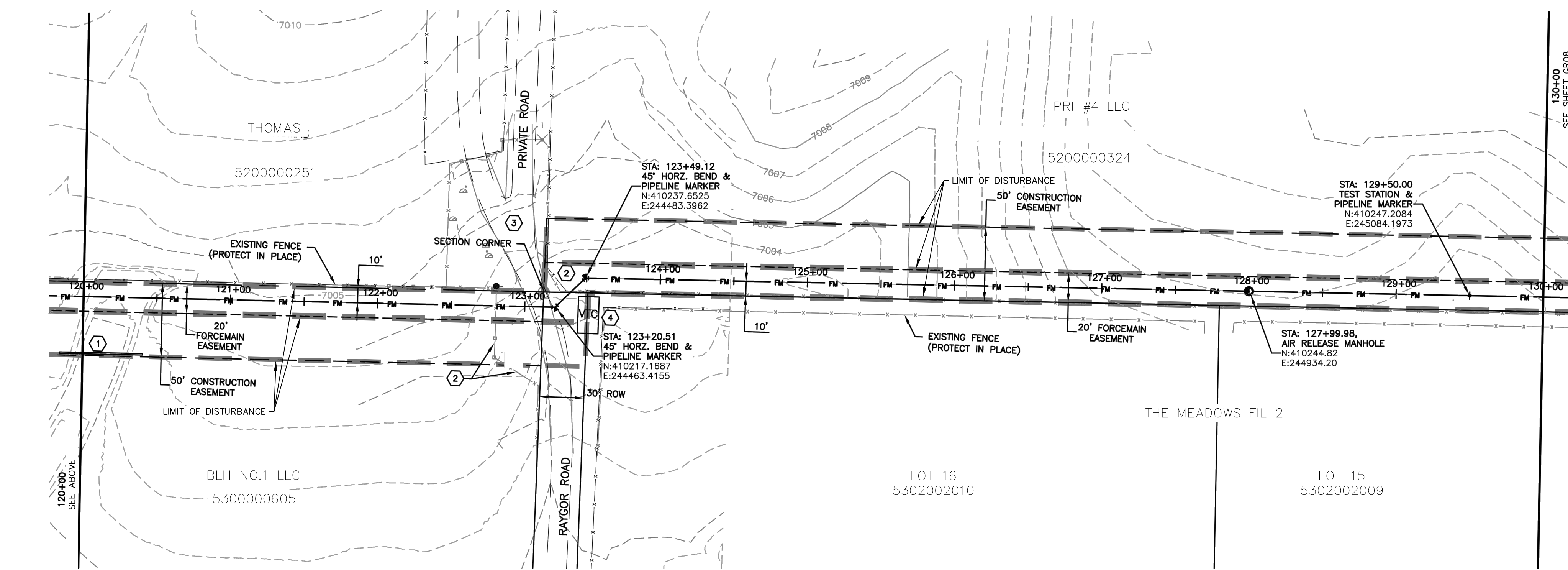
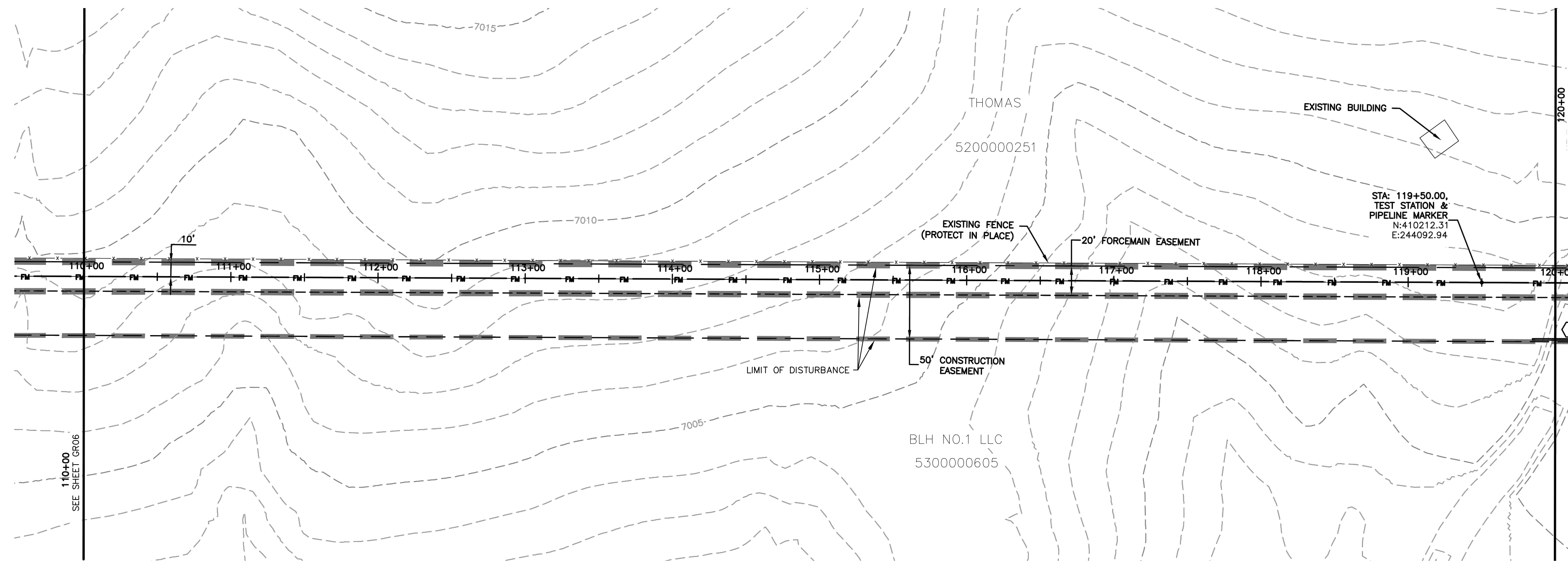
NO.	DATE	BY	DESCRIPTION

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

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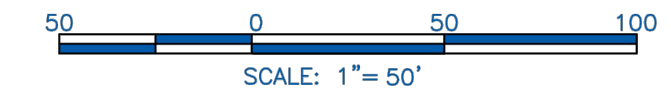
**CAUTION**



**EROSION & SEDIMENT CONTROL (EC) LEGEND**

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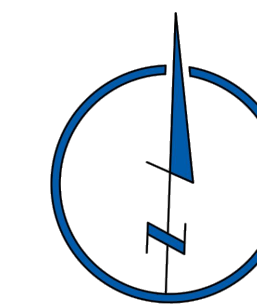
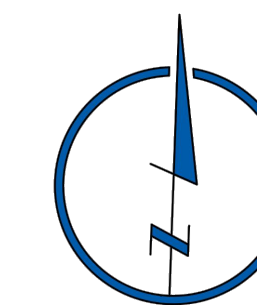


**NOTES:**

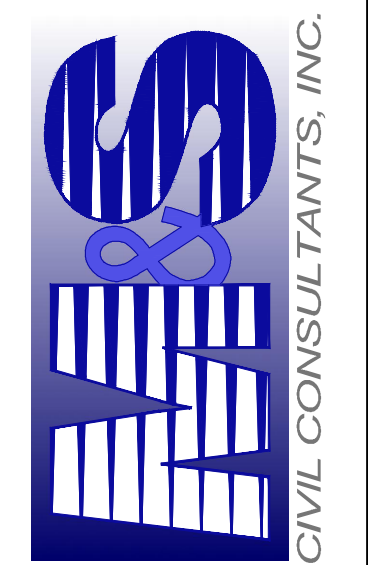
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**KEYNOTES:**

- SEDIMENT CONTROL LOG PER DETAIL SHEET GR015
- 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.



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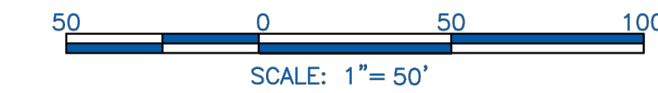
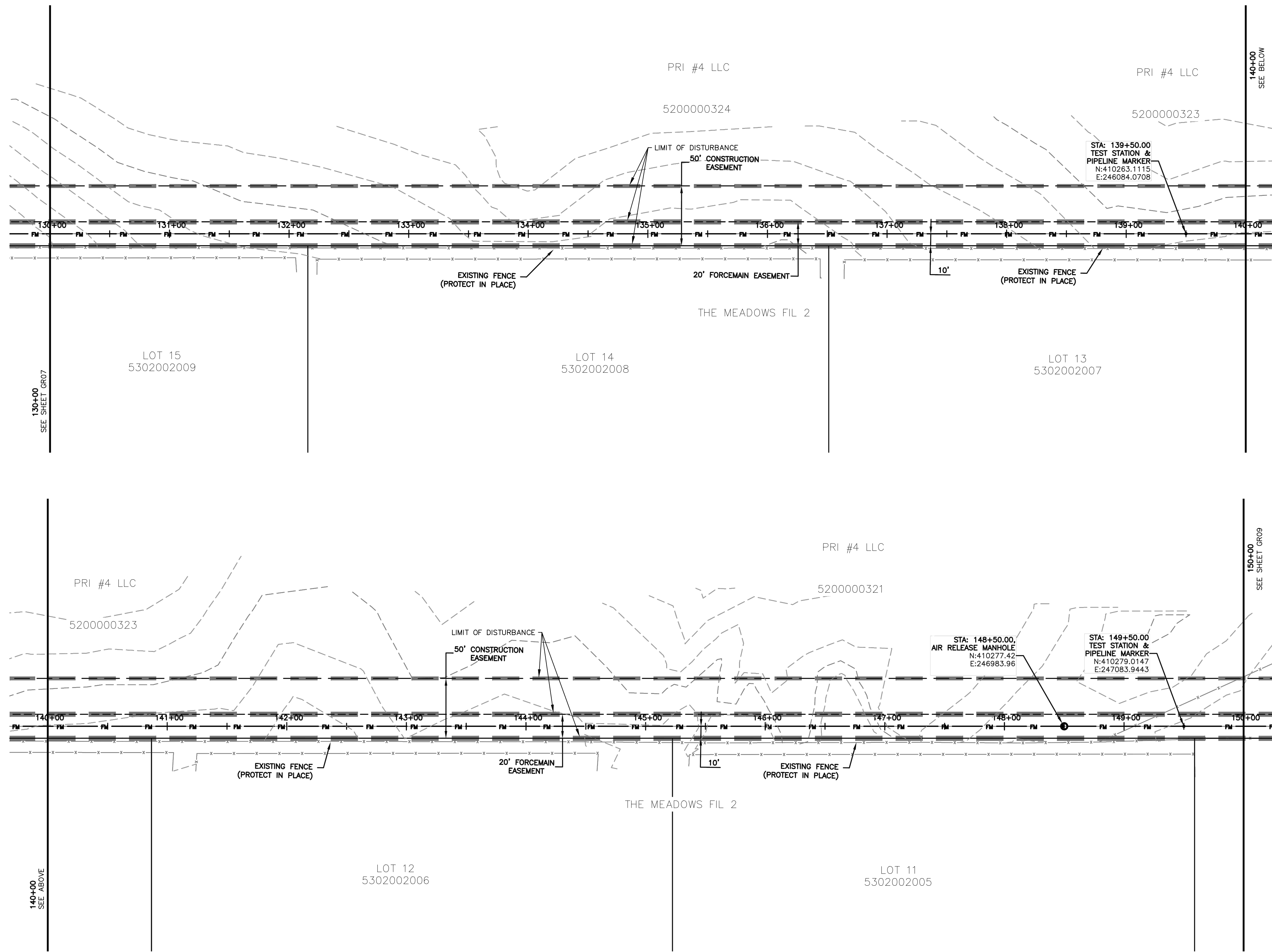


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 REGISTERED PROFESSIONAL ENGINEER  
 No. 31150  
 State of Colorado

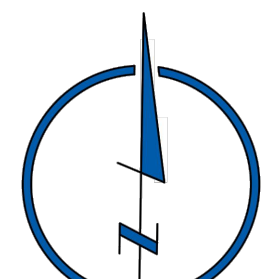
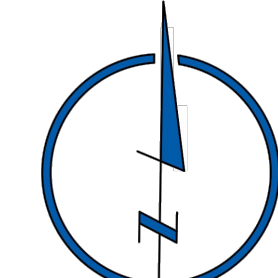
NO.	DATE	BY	DESCRIPTION

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

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**CAUTION**



- NOTES:**
- SEE SHEET GR01 FOR GENERAL NOTES.
  - STATIONING IS BASED ON THE CENTERLINE BETWEEN THE 8" AND 10" FORCE MAINS.
  - CONTRACTOR SHALL INSTALL THRUST BLOCKS AT ALL HORIZONTAL AND VERTICAL BENDS PER DETAIL.
  - 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.
  - 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.
  - CONTRACTOR SHALL PROVIDE A MINIMUM 1' OF CLEARANCE BETWEEN ALL UTILITIES UNLESS OTHERWISE NOTED.
  - CONTRACTOR SHALL PLACE SEDIMENT CONTROL LOGS UPSTREAM OF ALL STORM DRAIN PIPES WITHIN THE PROJECT AREA.
  - 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.
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  - CONTRACTOR SHALL PROTECT IN PLACE OR REMOVE AND REPLACE ANY SIGNS, MAILBOXES, LANDSCAPING, OR OTHER OBSTRUCTIONS DISTURBED DURING CONSTRUCTION.
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  - PER THIS PLAN, NO GRADING IS PROPOSED OUTSIDE THE CONSTRUCTION LIMITS OR EASEMENT AREA.
  - CONTRACTOR SHALL REPLACE THE AREA OF CONSTRUCTION TO THE EXISTING, PRE-CONSTRUCTION GRADE.
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  - THE EXISTING VEGETATION CONSISTS OF NATIVE GRASSES AND SHRUBS. THIS PROJECT CONTAINS APPROXIMATELY 95% NATIVE VEGETATION AND 5% ROADWAYS.



**EROSION & SEDIMENT CONTROL (EC) LEGEND**

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

**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**

PROJECT NO. 09-010  
 DATE: 01-24-2020  
 SCALE: N/A  
 HORIZONTAL: N/A  
 VERTICAL: N/A

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

SHEET 8 OF 15  
**GR08**

102 E. Pikes 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.	DATE	BY	DESCRIPTION

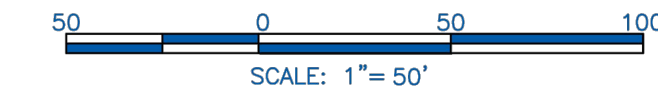
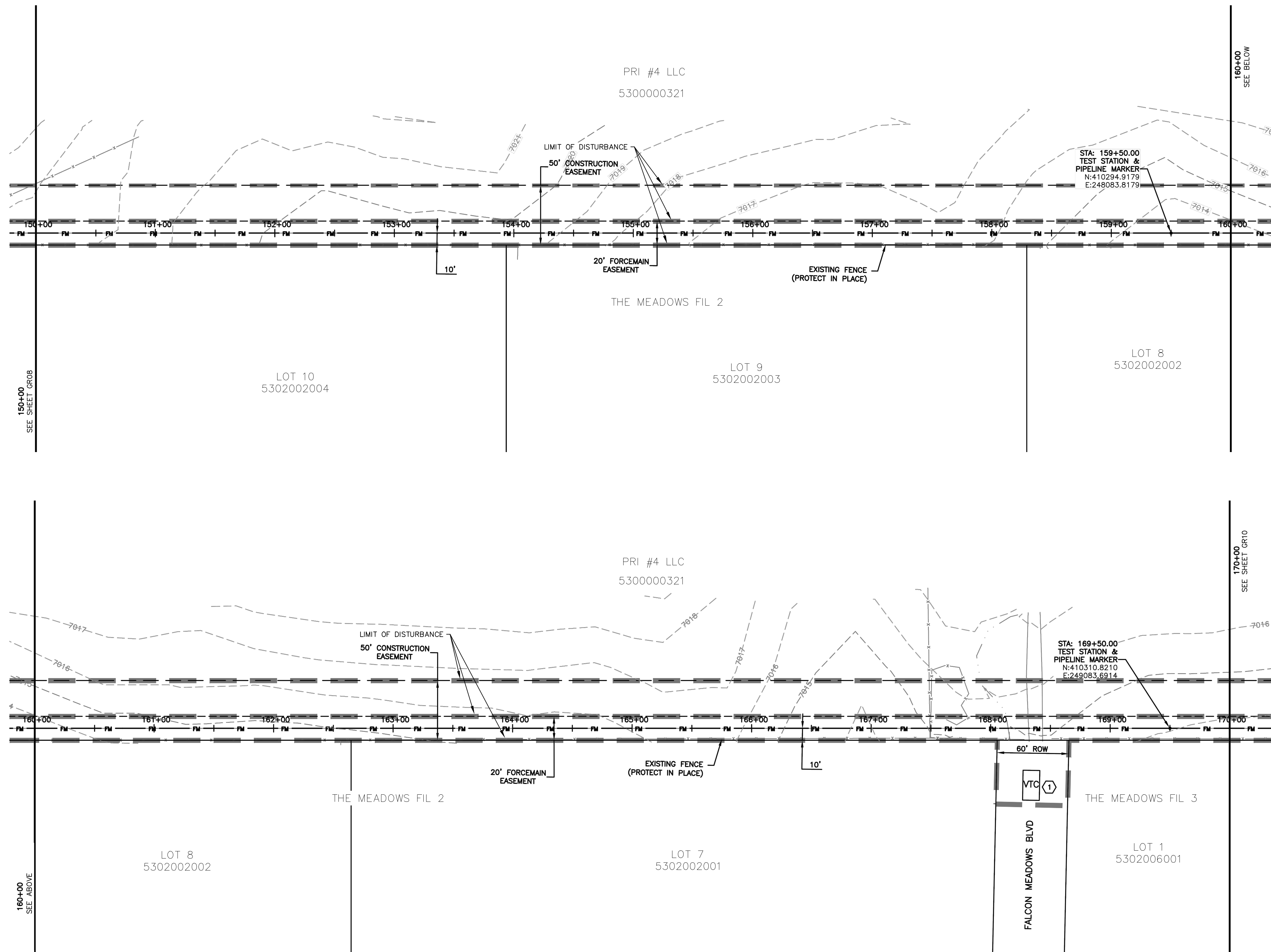
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**CAUTION**





**NOTES:**

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15. THE EXISTING VEGETATION CONSISTS OF NATIVE GRASSES AND SHRUBS. THIS PROJECT CONTAINS APPROXIMATELY 95% NATIVE VEGETATION AND 5% ROADWAYS.

**KEYNOTES:**

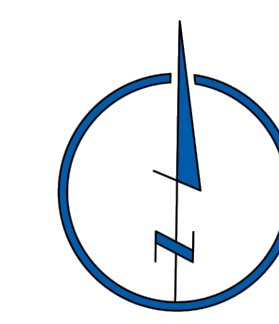
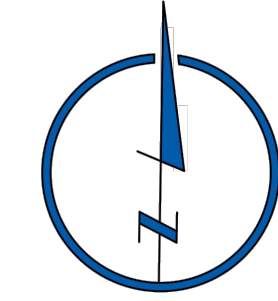
- ① VEHICLE TRACKING CONTROL PER SHEET GR15

**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/EASEMENT

**GRADING**

- EXISTING CONTOUR
- PROPOSED SWALE
- GRADE BREAK
- WETLANDS AREA NOT TO BE DISTURBED
- x4638.00 SPOT ELEVATION



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

PROJECT NO. 09-010  
 DATE: 01-24-2020  
 SCALE: N/A  
 HORIZONTAL: N/A  
 VERTICAL: N/A  
 DESIGNED BY: DM  
 DRAWN BY: CLP  
 CHECKED BY: DM

**GR09**  
 SHEET 9 OF 15

102 E. PILES PEAK AVE., 3RD FLOOR  
 COLORADO SPRINGS, CO 80903  
 PHONE: 719.555.5485

**CIVIL CONSULTANTS, INC.**

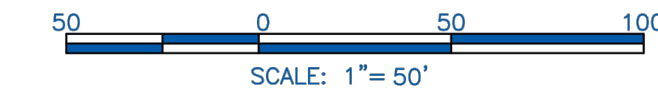
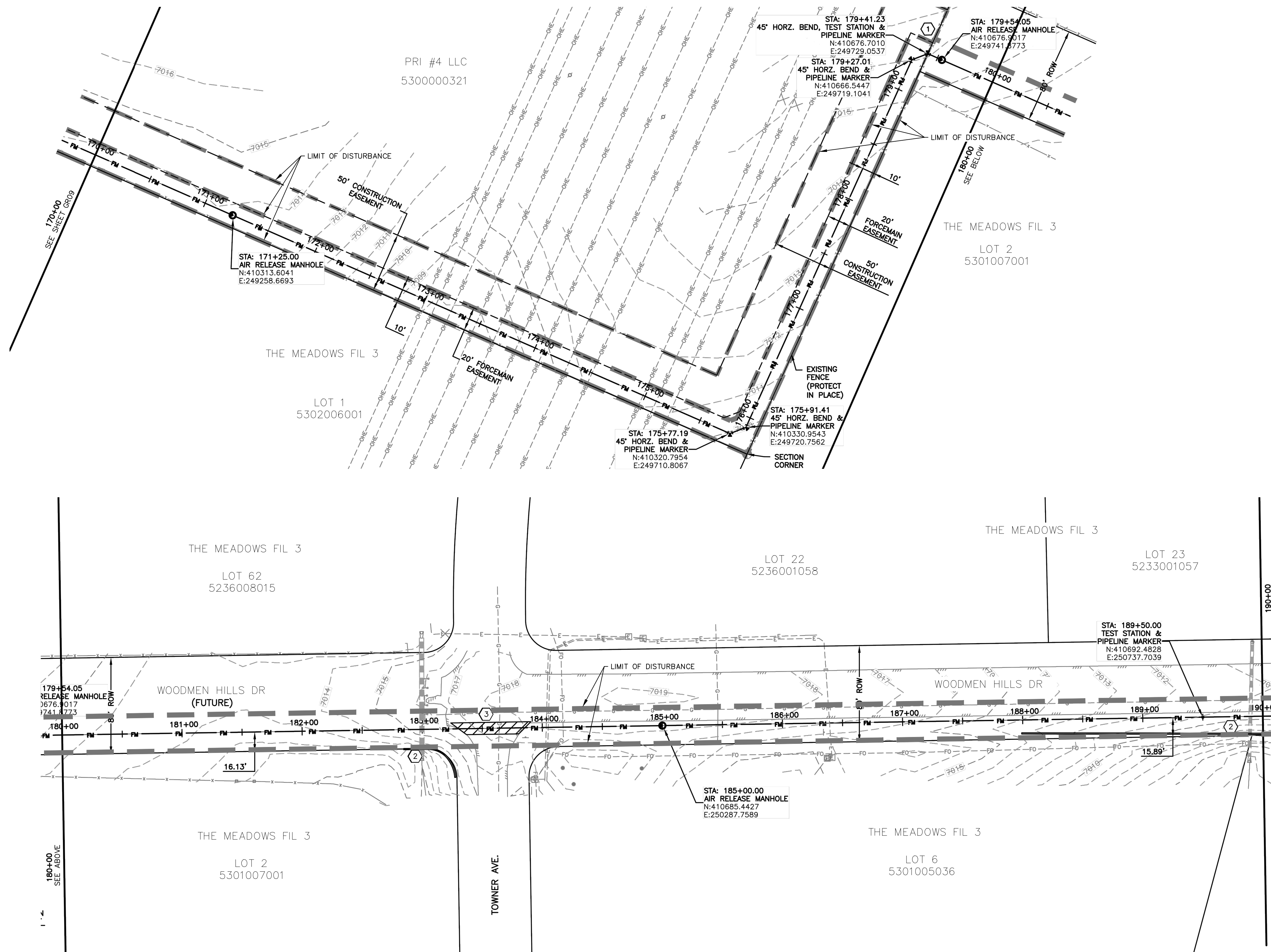
FOR AND ON BEHALF OF  
 M&S CIVIL CONSULTANTS, INC.

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NO.	DATE	BY	DESCRIPTION

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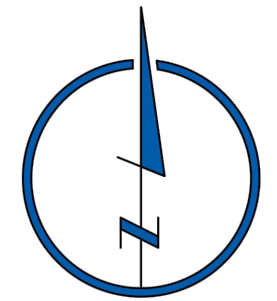
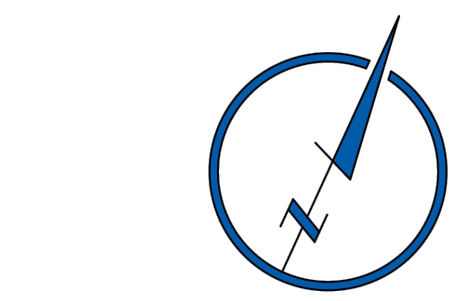
**CAUTION**



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

EROSION & SEDIMENT CONTROL (EC) LEGEND		GRADING	
	VEHICLE TRACKING CONTROL		EXISTING CONTOUR
	TEMPORARY SEEDING (SEE NOTE 9.)		PROPOSED SWALE
	SEDIMENT CONTROL LOG (SEE NOTE 7.)		GRADE BREAK
	(COMPACTED) EARTH BERM (SEE NOTE 8.)		WETLANDS AREA NOT TO BE DISTURBED
	LIMITS OF DISTURBANCE/ CONSTRUCTION BOUNDARY/EASEMENT		SPOT ELEVATION



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	SHEET 10 OF 15
	GR10

102 E. Pikes Peak Ave., 3rd 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

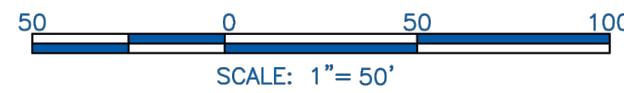
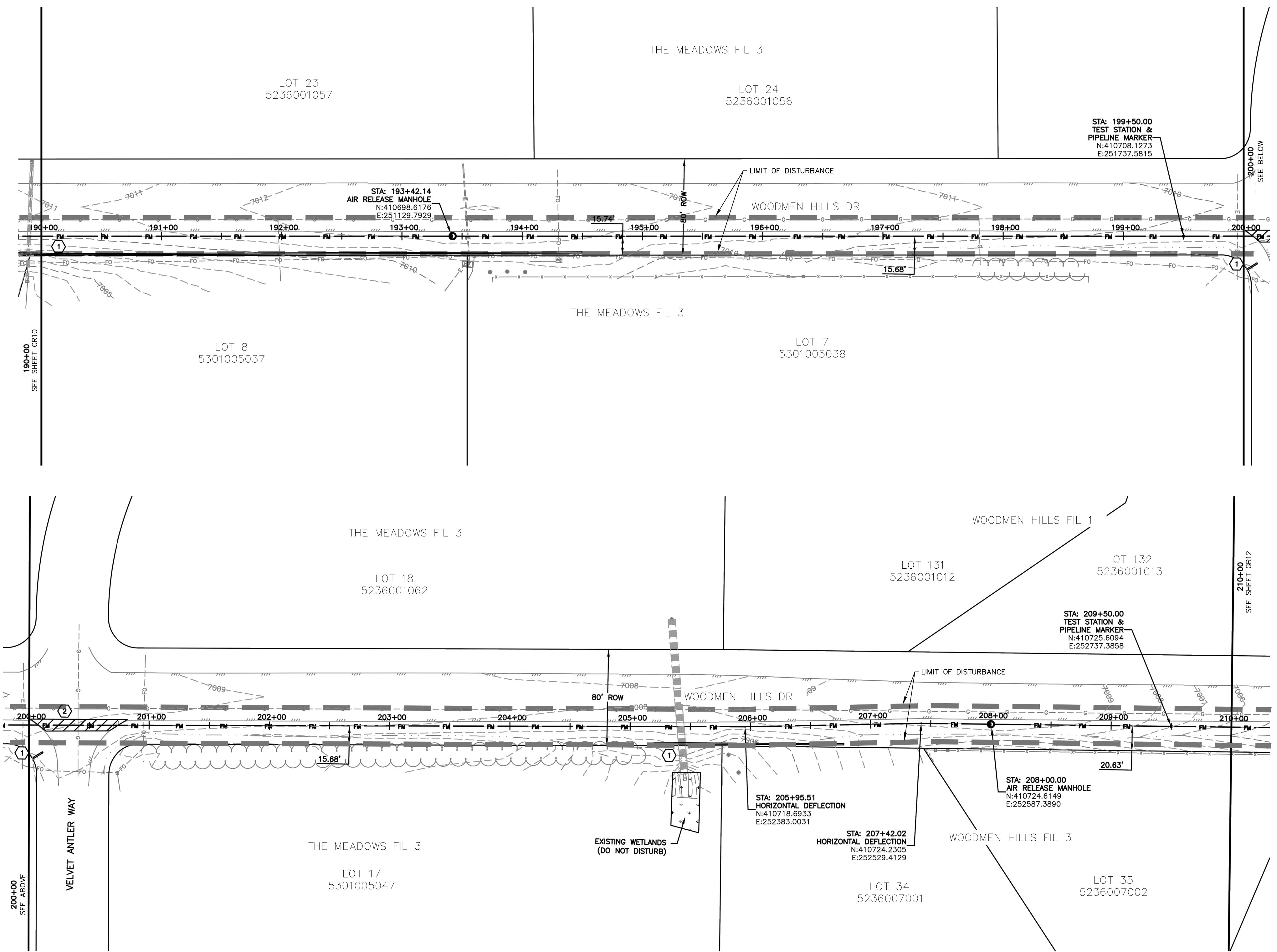
NO.	DATE	BY	DESCRIPTION

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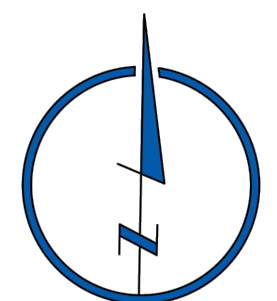
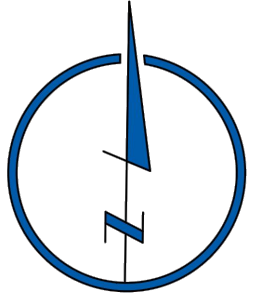
CAUTION

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

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

**GRADING**

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

- KEYNOTES:**
- SEDIMENT CONTROL LOG PER DETAIL SHEET GR15
  - 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  
 SCALE: N/A  
 HORIZONTAL: N/A  
 VERTICAL: N/A

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

DATE: 01-24-2020  
 SHEET 11 OF 15  
**GR11**

102 E. Pikes Peak Ave., 3rd 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

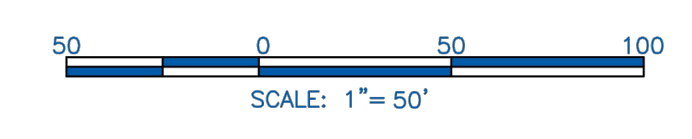
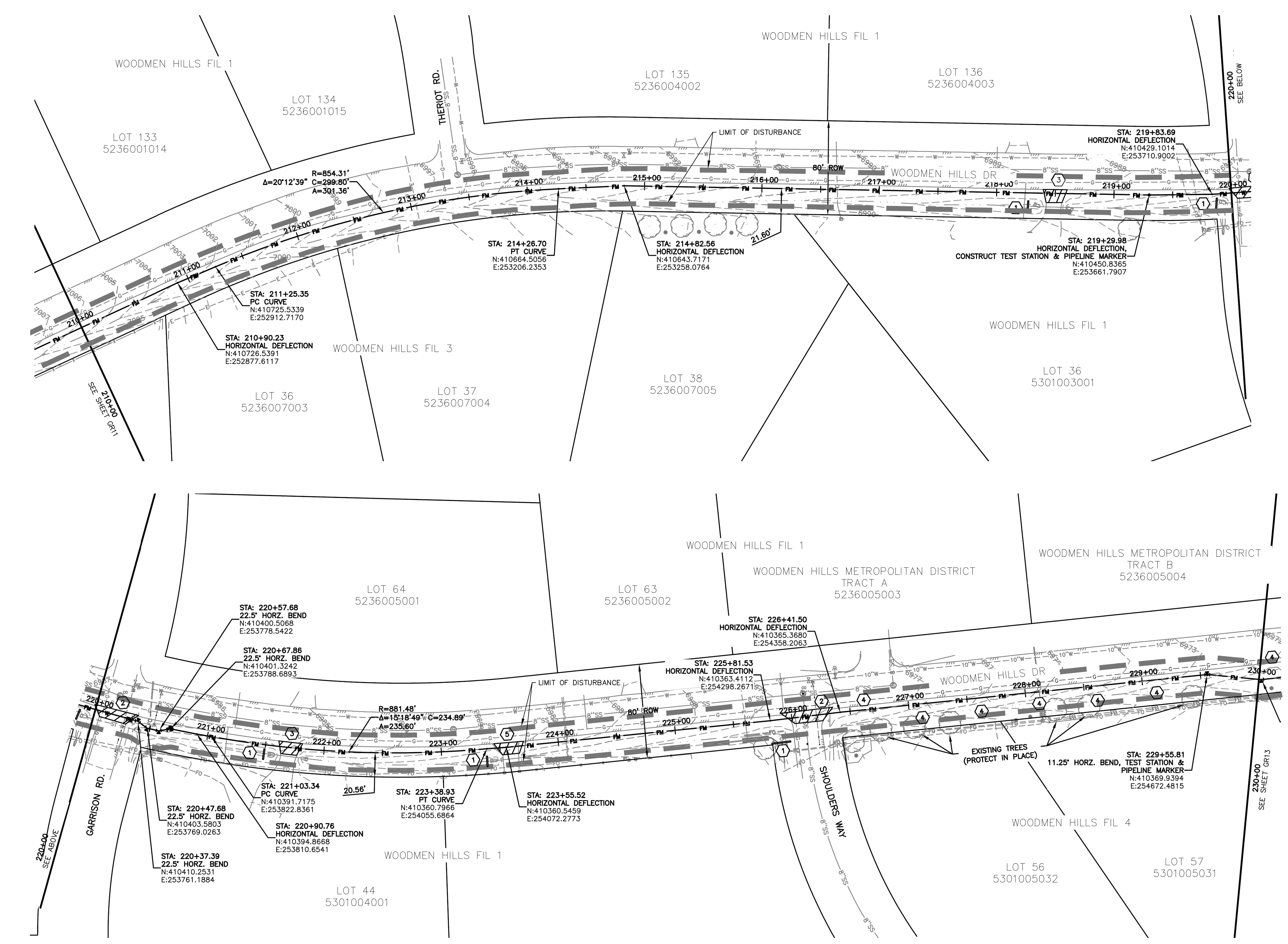
NO.	DATE	BY	DESCRIPTION

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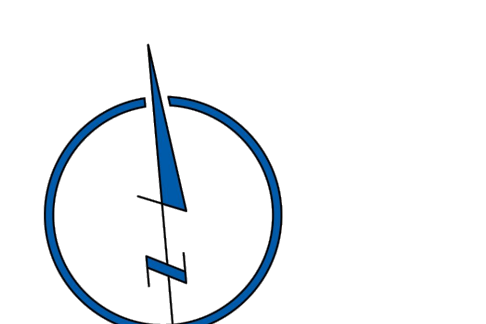
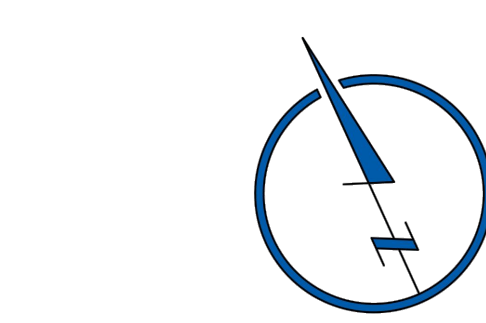
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- KEYNOTES:**
- SEDIMENT CONTROL LOG PER DETAIL SHEET GR15
  - CONTRACTOR SHALL SAW CUT, REMOVE & REPLACE EXISTING PAVEMENT PER EL PASO COUNTY SPECIFICATIONS.
  - CONTRACTOR SHALL SAW CUT, REMOVE AND REPLACE EXISTING CONCRETE DRIVEWAY.
  - CONTRACTOR SHALL REMOVE AND REPLACE EXISTING DECORATIVE FENCE.
  - CONTRACTOR SHALL REMOVE AND REPLACE EXISTING GRAVEL DRIVEWAY.

EROSION & SEDIMENT CONTROL (EC) LEGEND		GRADING	
	VEHICLE TRACKING CONTROL		EXISTING CONTOUR
	TEMPORARY SEEDING (SEE NOTE 9.)		PROPOSED SWALE
	SEDIMENT CONTROL LOG (SEE NOTE 7.)		GRADE BREAK
	(COMPACTED) EARTH BERM (SEE NOTE 8.)		WETLANDS AREA NOT TO BE DISTURBED
	LIMITS OF DISTURBANCE/ CONSTRUCTION BOUNDARY/EASEMENT		SPOT ELEVATION



<b>STERLING RANCH LIFT STATION &amp; FORCE MAIN GRADING &amp; EROSION CONTROL PLAN</b>	
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 12 OF 15 <b>GR12</b>	

**MAS CIVIL CONSULTANTS, INC.**  
102 E. Pikes Peak Ave., 5th Floor  
Colorado Springs, CO 80903  
PHONE: 719.555.5485

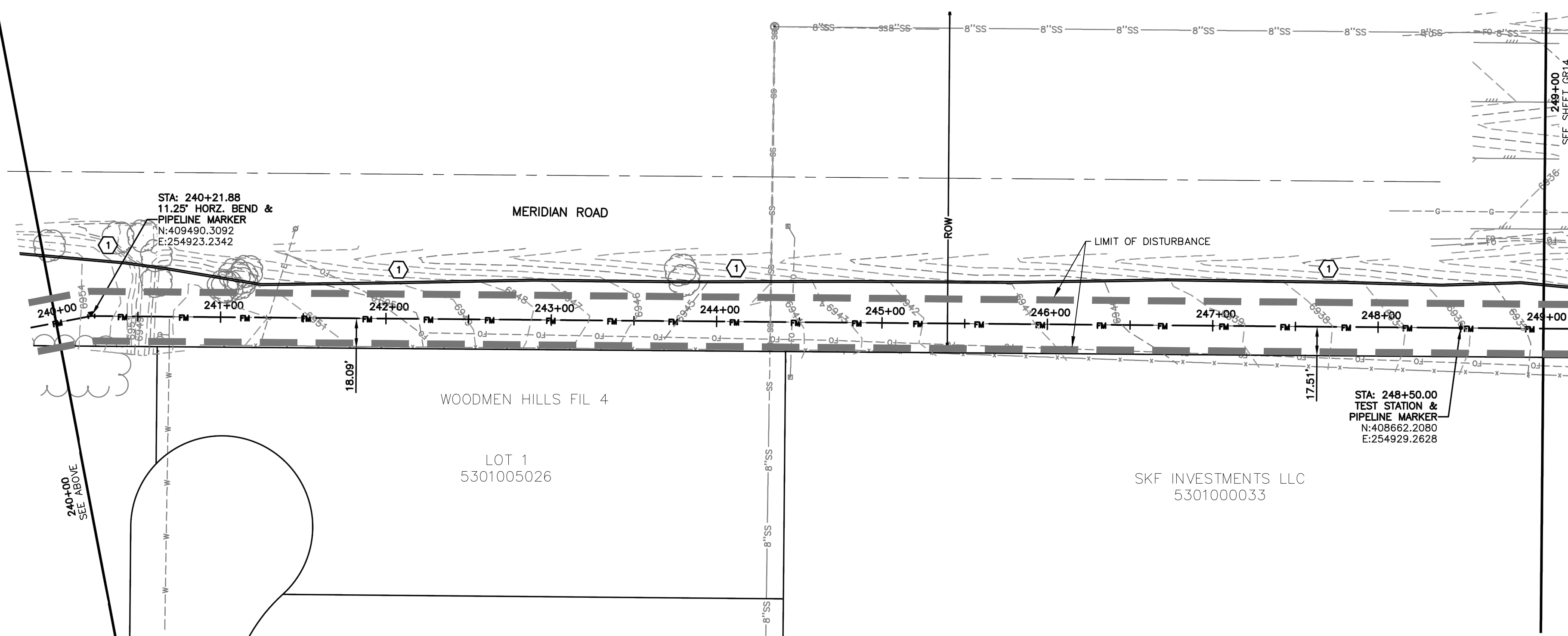
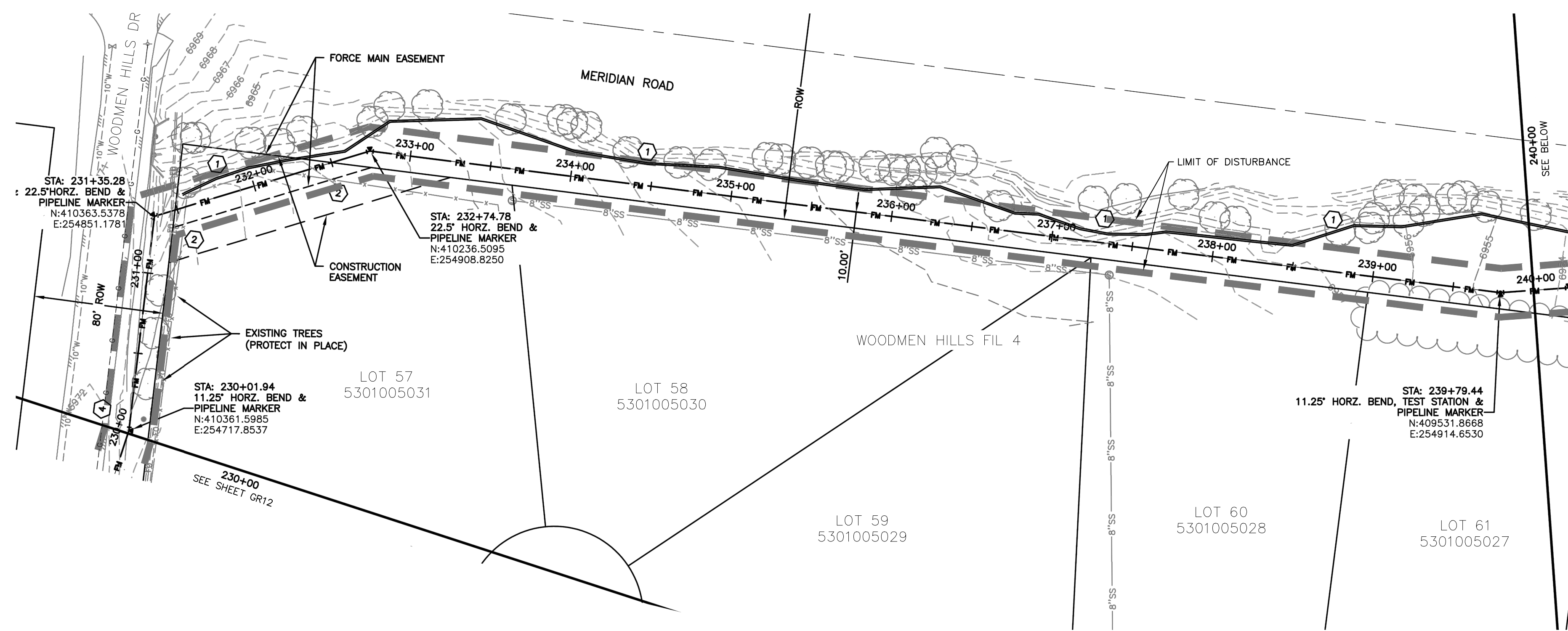
FOR AND ON BEHALF OF  
MAS CIVIL CONSULTANTS, INC.

NO.	DATE	BY	DESCRIPTION

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

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**CAUTION**

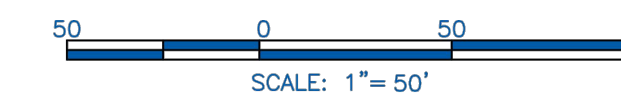


**EROSION & SEDIMENT CONTROL (EC) LEGEND**

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

- - - - - EXISTING CONTOUR
- . . . . - PROPOSED SWALE
- . . . . - GRADE BREAK
- [Pattern] WETLANDS AREA NOT TO BE DISTURBED
- X4638.00 SPOT ELEVATION
- XHP=4637.94 SPOT ELEVATION WITH DESCRIPTION SEE ABBREVIATIONS THIS SHEET

**GRADING**

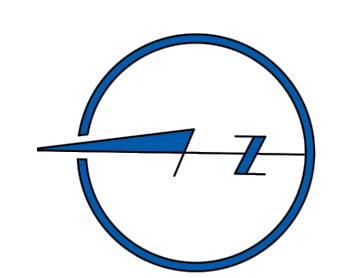
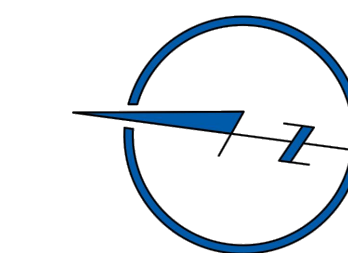


**NOTES:**

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.
11. CONTRACTOR SHALL PROTECT AREAS OUTSIDE THE CONSTRUCTION LIMITS WITH CONSTRUCTION FENCING OR OTHER METHODS AS APPROPRIATE.
12. PER THIS PLAN, NO GRADING IS PROPOSED OUTSIDE THE CONSTRUCTION LIMITS OR EASEMENT AREA.
13. CONTRACTOR SHALL REPLACE THE AREA OF CONSTRUCTION TO THE EXISTING, PRE-CONSTRUCTION GRADE.
14. CONTRACTOR SHALL USE THE CONSTRUCTION CORRIDOR FOR HEAVY EQUIPMENT ACCESS, STAGING, STORAGE OF MATERIALS, STOCKPILES, OR WASTES SHALL REMAIN ON THE STERLING RANCH PROPERTY IN LOCATIONS ALREADY BEING USED.
15. THE EXISTING VEGETATION CONSISTS OF NATIVE GRASSES AND SHRUBS. THIS PROJECT CONTAINS APPROXIMATELY 95% NATIVE VEGETATION AND 5% ROADWAYS.

**KEYNOTES:**

- ① SEDIMENT CONTROL LOG PER DETAIL SHEET GR15.
- ② REMOVE AND REPLACE 180 LF. OF EXISTING FENCE.
- ③ NOT USED.
- ④ CONTRACTOR SHALL REMOVE AND RE-INSTALL EXISTING DECORATIVE FENCE.



102 E. Pikes Peak Ave., 5th Floor  
 Colorado Springs, CO 80903  
 Phone: 719.555.5485

**CIVIL CONSULTANTS, INC.**

FOR AND ON BEHALF OF  
 MAS CIVIL CONSULTANTS, INC.

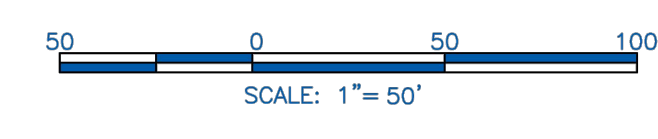
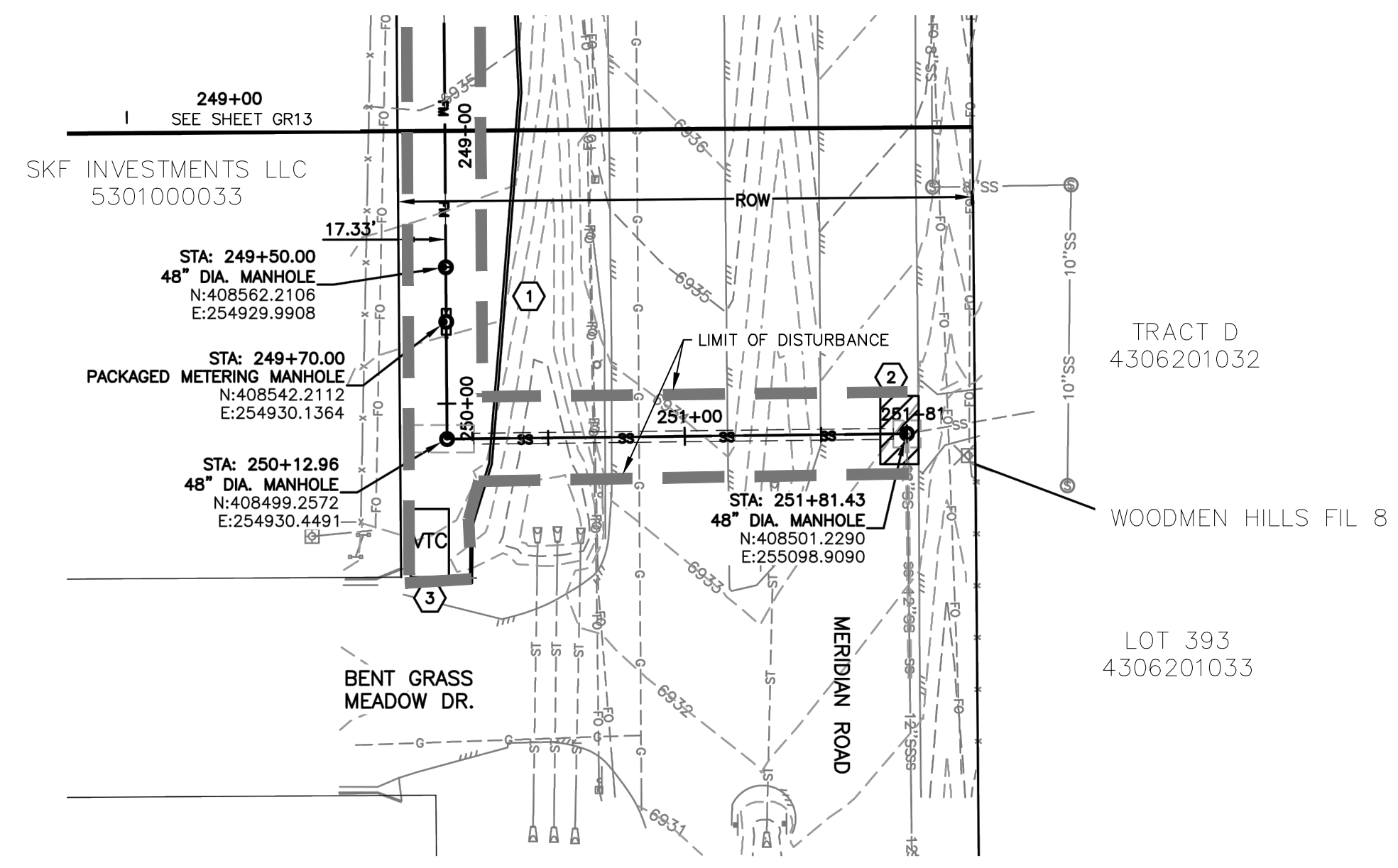
VIRGIL A. SANCHEZ, COLORADO P.E. NO. 37160

NO.	DATE	BY	DESCRIPTION

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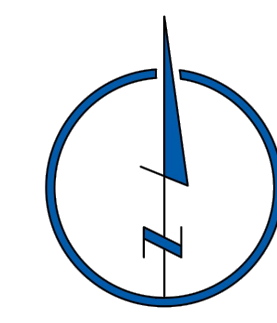
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**CAUTION**



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**GRADING**

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

**KEYNOTES:**

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

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

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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

102 E. PILES PEAK AVE., 5TH FLOOR COLORADO SPRINGS, CO 80903 PHONE: 719.955.4485

CIVIL CONSULTANTS, INC.

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

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

PROFESSIONAL ENGINEER REGISTRATION NO. 37160

REVISIONS:

NO.	DATE	BY	DESCRIPTION	APPROVED BY	DATE

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CAUTION

