

## UTILITY CONTACTS:

|                                                                                                  |                                                                    |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| WATER — MERIDIAN SERVICE METROPOLITAN DISTRICT<br>POC: KEVIN FACKERELL<br>(719)–495–6567         | GAS — BLACK HILLS ENERGY<br>(719)–393–6625                         |
| SANITARY SEWER — MERIDIAN SERVICE METROPOLITAN DISTRICT<br>POC: BRADEN McCORRY<br>(719)–495–6567 | ELECTRIC — MOUNTAIN VIEW ELECTRIC ASSOC.<br>(719)–495–2283         |
| DRAINAGE — EL PASO COUNTY PCD/INSPECTIONS<br>(719)–520–6300                                      | GEOTECHNICAL ENGINEER — ENTECH ENGINEERING, INC.<br>(719)–531–5599 |
| DRAINAGE — MERIDIAN SERVICE METROPOLITAN DISTRICT<br>POC: TOM KERBY<br>(719)–495–7444            | FALCON FIRE PROTECTION DISTRICT<br>(719) 495–4050                  |

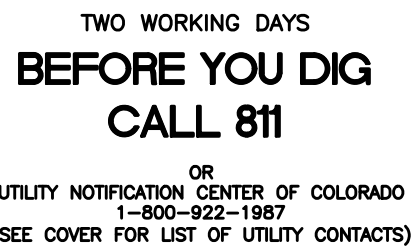
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING COMPLETELY ACCURATE. THE CONTRACTOR SHALL AT THE LOCAL UTILITY LOCATION ENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

KNOW ALL MEN BY THESE PRESENTS:  
THAT GTL, INC. DBA GTL DEVELOPMENT, INC., THEODORE TCHANG, PRESIDENT AND MERIDIAN SERVICE  
METROPOLITAN DISTRICT BEING THE OWNERS OF THE FOLLOWING DESCRIBED TRACTS OF LAND:

A PARCEL OF LAND LOCATED IN A PORTIONS OF SECTION 20 AND 29,  
IN TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, MORE PARTICULARLY  
DESCRIBED AS FOLLOWS:

1. THENCE N51°53'30"W ON SAID TRACT LINE A DISTANCE OF 26.13 FEET TO A CURVE TO THE RIGHT;
2. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 330.00 FEET, A DELTA ANGLE OF 0°41'46", AN ARC LENGTH OF 27.05 FEET, WHOSE LONG CHORD BEARS N35°45'37"E A DISTANCE OF 27.04 FEET;
3. THENCE N72°56'20"E A DISTANCE OF 32.99 FEET;
4. THENCE N24°30'35"E A DISTANCE OF 60.00 FEET;
5. THENCE N22°23'52"W A DISTANCE OF 32.06 FEET;
6. THENCE N20°49'43"E A DISTANCE OF 52.81 FEET TO A CURVE TO THE LEFT;
7. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 630.00 FEET, A DELTA ANGLE OF 0°30'56", AN ARC LENGTH OF 33.71 FEET, WHOSE LONG CHORD BEARS N191°7'45"E A DISTANCE OF 33.70 FEET;
8. THENCE S72°14'13"E A DISTANCE OF 102.16 FEET;
9. THENCE S65°37'27"E A DISTANCE OF 315.00 FEET;
10. THENCE S37°21'44"W A DISTANCE OF 123.15 FEET;
11. THENCE S65°37'27"E A DISTANCE OF 20.18 FEET TO A CURVE TO THE RIGHT;
12. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 580.00 FEET, A DELTA ANGLE OF 0°75'02", AN ARC LENGTH OF 79.44 FEET, WHOSE LONG CHORD BEARS S61°42'00"E A DISTANCE OF 79.38 FEET;
13. THENCE N80°20'11"E A DISTANCE OF 32.19 FEET;
14. THENCE S52°38'43"E A DISTANCE OF 60.00 FEET;
15. THENCE S05°36'43"E A DISTANCE OF 32.19 FEET TO A NON-TANGENT CURVE TO THE RIGHT;
16. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 580.00 FEET, A DELTA ANGLE OF 0°54'20", AN ARC LENGTH OF 98.21 FEET, WHOSE LONG CHORD BEARS S42°38'56"E A DISTANCE OF 98.09 FEET;
17. THENCE N52°12'07"E A DISTANCE OF 140.63 FEET;
18. THENCE N18°34'24"E A DISTANCE OF 254.62 FEET;
19. THENCE S86°03'00"E A DISTANCE OF 305.00 FEET;
20. THENCE S00°12'17"W A DISTANCE OF 140.80 FEET;
21. THENCE S05°56'41"E A DISTANCE OF 270.12 FEET;
22. THENCE S19°52'22"E A DISTANCE OF 357.93 FEET;
23. THENCE S32°36'03"E A DISTANCE OF 70.02 FEET;
24. THENCE S31°18'00"E A DISTANCE OF 60.00 FEET;
25. THENCE S36°17'59"E A DISTANCE OF 267.98 FEET;
26. THENCE S51°02'42"E A DISTANCE OF 252.48 FEET;
27. THENCE S44°03'58"E A DISTANCE OF 132.46 FEET;
28. THENCE S49°29'46"W A DISTANCE OF 137.49 FEET TO A NON-TANGENT CURVE TO THE RIGHT;
29. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 730.00 FEET, A DELTA ANGLE OF 0°45'05", AN ARC LENGTH OF 86.02 FEET, WHOSE LONG CHORD BEARS S40°41'16"E A DISTANCE OF 85.97 FEET;
30. THENCE S37°18'43"E A DISTANCE OF 12.18 FEET;
31. THENCE S82°18'43"E A DISTANCE OF 31.11 FEET;
32. THENCE S37°18'43"E A DISTANCE OF 60.00 FEET;
33. THENCE S07°41'17"W A DISTANCE OF 31.11 FEET;
34. THENCE S37°18'43"E A DISTANCE OF 196.00 FEET;
35. THENCE S82°18'43"E A DISTANCE OF 31.11 FEET;
36. THENCE S37°18'43"E A DISTANCE OF 60.00 FEET;
37. THENCE S07°41'17"W A DISTANCE OF 31.11 FEET;
38. THENCE S37°18'43"E A DISTANCE OF 5.00 FEET TO A CURVE TO THE RIGHT;
39. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 430.00 FEET, A DELTA ANGLE OF 1°11'01" - AN ARC LENGTH OF 143.97 FEET, WHOSE LONG CHORD BEARS S27°43'13"E A DISTANCE OF 143.30 FEET TO A REVERSE CURVE TO THE LEFT;
40. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 470.00 FEET, A DELTA ANGLE OF 1°11'01" - AN ARC LENGTH OF 157.37 FEET, WHOSE LONG CHORD BEARS S27°43'13"E A DISTANCE OF 156.63 FEET;

BASIS OF BEARINGS FOR THIS DESCRIPTION IS THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 29, T12S, R64W OF THE 6TH P.M., WHICH IS ASSUMED TO BEAR S89°25'42"E FROM THE SOUTHWEST CORNER OF SECTION 29 (A STONE W/SCRIBED "X") TO THE SOUTH QUARTER CORNER OF SECTION 29 (3.25" ALUM. CAP LS 30087).



PREPARED FOR GTL, INC. DBA GTL DEVELOPMENT, INC.

A PARCEL OF LAND LOCATED IN A PORTION OF SECTION 20 AND 29  
IN TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN,  
EL PASO COUNTY, STATE OF COLORADO.



| SHEET NO | SHEET INDEX                                 | SHEET NO | SHEET INDEX                             |
|----------|---------------------------------------------|----------|-----------------------------------------|
| 1        | COVER SHEET                                 | 18-19    | EVENING CREEK DR.                       |
| 2        | INDEX SHEET                                 | 20       | CUATRO CAMINOS DR.                      |
| 3        | NOTES SHEET                                 | 21       | FUTURE<br>MONUMENT VISTA DR.<br>& SS #2 |
| 4-5      | DETAIL SHEET                                |          |                                         |
| 6        | LAMBERT RD. &<br>STORM #4                   |          |                                         |
| 7-9      | ROLLING PEAKS DR.                           | 22       | SIGNAGE AND STRIPING                    |
| 10       | ROLLING PEAKS DR. &<br>FUT. WOODS GROVE DR. | 23-24    | SIDEWALK PLAN                           |
|          |                                             | 25       | OVERALL SANITARY SEWER                  |
| 11       | VALLEY PEAK DR. &<br>BRIDGE WAY             | 26       | OVERALL SANITARY<br>SEWER SERVICES      |
|          |                                             | 27       | OVERALL UNDERDRAIN                      |
| 12       | SUMMER RIDGE DR.                            | 28       | UNDERDRAIN DETAILS                      |
| 13       | SUMMER RIDGE DR. &<br>STORM #3              | 29       | OVERALL WATER                           |
|          |                                             | 30       | OVERALL WATER SERVICES                  |
| 14       | CROOKED HILL DR. &<br>STORM #1              | 31       | OVERALL STORM DRAIN                     |
|          |                                             | 31       | GRADING INDEX SHEET                     |
| 15       | PARKLAND DR.                                | 33-40    | GRADING LAYOUT                          |
| 16-17    | ROLLING MESA DR.                            | 41-42    | GRADING DETAIL SHEET                    |

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

THOMAS A. KERBY, P.E. #31429

DEVELOPERS STATEMENT:

THE UNDERSIGNED DEVELOPER HAS READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE CONSTRUCTION PLANS AND THE ACCOMPANYING DRAINAGE REPORT.

\_\_\_\_\_  
RAUL GUZMAN, VICE PRESIDENT  
GTL DEVELOPMENT, INC.

\_\_\_\_\_  
DATE

OWNERS STATEMENT:

THE UNDERSIGNED OWNER HAS READ AND WILL COMPLY WITH ALL  
OF THE REQUIREMENTS SPECIFIED IN THESE CONSTRUCTION PLANS  
AND THE ACCOMPANYING DRAINAGE REPORT.

\_\_\_\_\_  
RAUL GUZMAN, VICE PRESIDENT  
MERIDIAN RANCH INVESTMENTS, INC.

\_\_\_\_\_  
DATE

DAVID A PELSER, GENERAL MANAGER  
MERIDIAN SERVICE METROPOLITAN DISTRICT

1) MRRC1 - 3 1/4" ALUMINUM CAP ON NO.6 REBAR LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF LONDONDERRY DRIVE AND ANGELES ROAD. LOCATED AT THE SE CORNER OF THE MERIDIAN RANCH RECREATIONAL CENTER SIGN. ELEVATION - 7098.40'

2) MRMS1 - 3 1/4" ALUMINUM CAP ON NO.6 REBAR LOCATED ON THE WEST SIDE OF RAINBOW BRIDGE DRIVE 1,150 FEET NORTH OF LONDON DERRY DRIVE. LOCATED NEAR THE BACK OF SIDE WALK AT THE NW CORNER OF RAINBOW BRIDGE DRIVE AND THE NORTHERLY ENTRANCE TO MERIDIAN RANCH ELEMENTARY SCHOOL (10480 RAINBOW BRIDGE DRIVE).  
ELEVATION - 7099.73'

THE FOLLOWING ELEVEN (11) COURSES ARE ON SAID BOUNDARY LINE:

73. THENCE N05°03'36"W A DISTANCE OF 165.00 FEET;  
74. THENCE N20°15'12"W A DISTANCE OF 165.00 FEET;  
75. THENCE N31°56'26"W A DISTANCE OF 165.00 FEET;  
76. THENCE N42°44'55"W A DISTANCE OF 102.00 FEET;  
77. THENCE N55°18'55"W A DISTANCE OF 75.00 FEET;  
78. THENCE N36°06'38"E A DISTANCE OF 108.00 FEET;  
79. THENCE N49°25'02"W A DISTANCE OF 134.00 FEET;  
80. THENCE N33°45'49"W A DISTANCE OF 132.00 FEET;  
81. THENCE N17°12'24"W A DISTANCE OF 137.00 FEET;  
82. THENCE N09°04'29"W A DISTANCE OF 85.86 FEET;  
83. THENCE N32°22'02"E A DISTANCE OF 74.77 FEET TO A POINT ON THE EASTERLY BOUNDARY OF MERIDIAN RANCH FILING NO. 9, RECORDED WITH RECEPTION NO. 216713763 IN THE RECORDS OF EL PASO COUNTY;

THE FOLLOWING FIFTEEN (15) COURSES ARE ON SAID BOUNDARY LINE.

84. THENCE N10°04'06"W A DISTANCE OF 162.63 FEET;
85. THENCE N26°31'01"W A DISTANCE OF 218.96 FEET;
86. THENCE N06°43'25"W A DISTANCE OF 140.00 FEET;
87. THENCE N01°13'59"W A DISTANCE OF 97.14 FEET;
88. THENCE N20°48'51"E A DISTANCE OF 360.75 FEET;
89. THENCE N12°48'36"W A DISTANCE OF 91.63 FEET;
90. THENCE N22°11'16"W A DISTANCE OF 110.06 FEET;
91. THENCE N51°53'30"W A DISTANCE OF 86.13 FEET TO A NON-TANGENT CURVE TO THE LEFT;
92. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 270.00 FEET, A DELTA ANGLE OF 17°16'47", AN ARC LENGTH OF 81.43 FEET, WHOSE LONG CHORD BEARS N29°28'07"E A DISTANCE OF 81.12 FEET;
93. THENCE N20°49'43"E A DISTANCE OF 84.41 FEET TO A CURVE TO THE LEFT;
94. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 570.00 FEET, A DELTA ANGLE OF 22°54'07", AN ARC LENGTH OF 227.84 FEET, WHOSE LONG CHORD BEARS N09°22'40"E A DISTANCE OF 226.32 FEET;
94. THENCE N02°04'24"W A DISTANCE OF 3.92 FEET;
95. THENCE N47°26'09"W A DISTANCE OF 30.92 FEET TO A NON-TANGENT CURVE TO THE LEFT;
96. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 3240.00 FEET, A DELTA ANGLE OF 1°43'43", AN ARC LENGTH OF 824.23 FEET, WHOSE LONG CHORD BEARS S79°43'10"W A DISTANCE OF 822.01 FEET;
97. THENCE S72°25'54"W A DISTANCE OF 442.10 FEET TO A POINT ON THE BOUNDARY LINE OF SAID MERIDIAN RANCH ESTATES FILING NO. 2;
98. THENCE N17°34'06"W A DISTANCE OF 60.00 FEET TO THE POINT OF BEGINNING.

THE ABOVE PARCEL OF LAND CONTAINS 95.189 ACRES, MORE OR LESS.

THOMAS A. KERBY, PE CO 31429  
MERIDIAN SERVICE METROPOLITAN DISTRICT

DAVID A PELSER, GENERAL MANAGER  
MERIDIAN SERVICE METROPOLITAN DISTRICT

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ELEVATION - 7099.73'


**MERIDIAN RANCH**

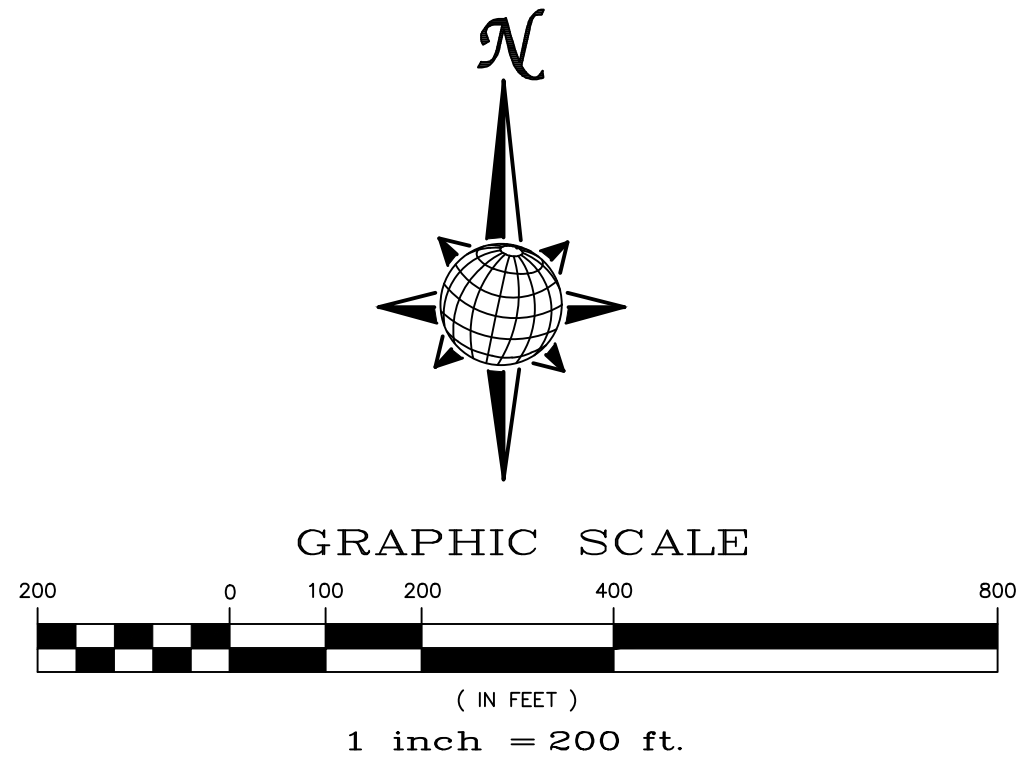
ROLLING HILLS RANCH FILING 1  
AT MERIDIAN RANCH  
STREET AND UTILITY PLANS

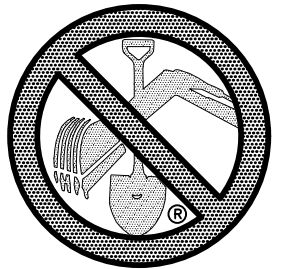
COVER SHEET

| Drawn by<br>LOG | Checked by<br>TAK | Date |
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of 42

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TWO WORKING DAYS  
BEFORE YOU DIG  
CALL 811

OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)



|                   |                 |                   |                  |                                                                                              |  |           |  |                                                                                                         |  |                                                                                                             |       |                         |      |           |  |      |       |       |      |
|-------------------|-----------------|-------------------|------------------|----------------------------------------------------------------------------------------------|--|-----------|--|---------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------|-------|-------------------------|------|-----------|--|------|-------|-------|------|
| Scale<br>AS SHOWN | Drawn by<br>LCS | Checked by<br>TAK | Date<br>NOV 2019 | ROLLING HILLS RANCH FILING 1<br>AT MERIDIAN RANCH<br>STREET AND UTILITY PLANS<br>INDEX SHEET |  |           |  | <br>MERIDIAN RANCH |  | TECH CONTRACTORS<br>11886 STAPLETON DRIVE<br>FALCON, CO 80831<br>TELEPHONE 719.495.7444<br>FAX 719.495.2457 |       | 1<br>2<br>3<br>4<br>No. |      | Revisions |  | Date | Init. | Appr. | Date |
|                   |                 |                   |                  | 1<br>2<br>3<br>4<br>No.                                                                      |  | Revisions |  |                                                                                                         |  | Date                                                                                                        | Init. | Appr.                   | Date |           |  |      |       |       |      |



METROPOLITAN DISTRICT GENERAL UTILITY NOTES  
FOR MERIDIAN SERVICE METROPOLITAN DISTRICT  
LAST MODIFIED JANUARY 20, 2017  
MSMD BOARD APPROVED: FEBRUARY 1, 2017

GENERAL NOTES

1. MERIDIAN SERVICE METROPOLITAN DISTRICT (MSMD) CONTACT TELEPHONE NUMBERS:  
ON SITE OFFICE 719-495-6567.  
MANAGEMENT COMPANY, IN CARE OF CRS OF COLORADO, LLC 303-381-4965.
2. ALL SANITARY SEWER, POTABLE WATER, RECLAIMED WATER, RAW WATER AND STORM DRAIN SYSTEMS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE CURRENT MERIDIAN SERVICE METROPOLITAN DISTRICT (MSMD) SPECIFICATIONS. MSMD SPECIFICATIONS HEREINAFTER SHALL BE CONSISTENT WITH THE COLORADO SPRINGS UTILITIES SPECIFICATIONS (CSUS) FOR WASTEWATER LINE EXTENSION & SERVICE STANDARDS, 2010 EDITION AND THE WATER LIND EXTENSION & SERVICE STANDARDS, 2014 EDITION, UNLESS OTHERWISE NOTED AND APPROVED.
3. ALL PLANS ON THE JOB SITE SHALL BE SIGNED AND APPROVED BY MSMD AND MSMD'S ENGINEER. ANY REVISION TO THE PLANS SHALL BE APPROVED BY MSMD AND MSMD'S ENGINEER AND SO NOTED ON THE PLANS.
4. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY MSMD. MSMD RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO MSMD STANDARDS AND SPECIFICATIONS.
5. ALL PIPE MATERIAL, BACKFILL, AND INSTALLATION SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT, COLORADO SPRINGS UTILITIES, MSMD, DISTRICT ENGINEER AND THE SOILS ENGINEER.
6. ALL UTILITY TRENCH BACKFILL SHALL BE PLACED PER THE APPROVED SOILS REPORT RECOMMENDATIONS AND UNDER THE DIRECTION OF THE SOILS ENGINEER. TRENCH BACKFILL SHALL BE MOISTURE CONDITIONED TO WITHIN 2 PERCENT OF OPTIMUM AND COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM MODIFIED PROCTOR DRY DENSITY (ASTM D 1557) OR HIGHER STANDARD AS REQUIRED BY THE EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT OR THE SOILS ENGINEER RECOMMENDATION. THIS SHALL INCLUDE ALL MAIN LINE, VALVES, FIRE HYDRANT RUNS, WATER & SEWER SERVICE LINES, CLEAN OUTS, INLET BOXES, MANHOLES, ETC. A QUALIFIED SOILS ENGINEER SHALL OBSERVE AND TEST THE BACKFILL AND COMPACTION OF ALL TRENCHES AND ALL REPORTS SHALL BE SUBMITTED TO MSMD FOR REVIEW AND APPROVAL.
7. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT THE REVISIONS OF THE CONSTRUCTION DRAWINGS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
8. ALL WATER AND SANITARY SEWER SERVICE LATERAL LOCATIONS SHALL BE CLEARLY MARKED BY STAMPING AN "S" FOR SEWER AND A "W" FOR WATER ON THE CURB FACE AT EACH SERVICE LATERAL LOCATION. ALL SLEEVE LOCATIONS SHALL BE CLEARLY MARKED BY STAMPING AN "X" ON THE CURB FACE. ALL PRIVATE IRRIGATION SLEEVES SHALL BE MARKED BY STAMPING AN "I" ON THE TOP OF THE SIDEWALK.
9. BENDS, DEFLECTIONS & CUT PIPE LENGTHS SHALL BE USED TO HOLD HORIZONTAL ALIGNMENT OF SEWER AND WATER LINES TO NO MORE THAN 0.5' FROM THE DESIGNED ALIGNMENT.
10. AT ALL LOCATIONS WHERE CAP AND STUB IS NOTED ON DRAWINGS, PROVIDE A PLUG AT THE END OF THE PIPE JOINT NEAREST THE SPECIFIED STATION. PROVIDE A REVERSE ANCHOR AT ALL WATER LINE PLUGS AND BLOW OFFS.
11. ALL EXISTING UTILITY MAINS SHALL BE SUPPORTED AND PROTECTED IN PLACE AND FUNCTION CONTINUOUSLY DURING ALL CONSTRUCTION OPERATIONS. SHOULD A MSMD UTILITY FAIL OR BE DAMAGED AS A RESULT OF THE CONSTRUCTION OPERATION, IT SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR PER ALL MSMD SPECIFICATIONS. IN THE EVENT THE CONTRACTOR CANNOT IMMEDIATELY MAKE THE REPAIRS TO THE FAILED OR DAMAGED MSMD UTILITY TO THE SATISFACTION OF MSMD, MSMD MAY REPAIR OR CAUSE THE REPAIR AND BACK CHARGE ALL SUCH COSTS TO THE CONTRACTOR.
12. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY AND ALL DAMAGE CAUSED BY THE CONTRACTOR DURING CONSTRUCTION ACTIVITIES TO ALL ABOVE OR BELOW GROUND IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO FENCES, LANDSCAPING, CURB, GUTTER, SIDEWALK, ASPHALT, ELECTRIC SYSTEMS, GAS SYSTEMS, TELEPHONE/TELEVISION SYSTEMS, ETC.
13. A PRECONSTRUCTION CONFERENCE MEETING SHALL BE HELD AT THE PROJECT SITE A MINIMUM OF 7 DAYS BEFORE CONSTRUCTION BEGINS AND SHALL BE ATTENDED BY ALL REPRESENTATIVES RESPONSIBLE FOR CONSTRUCTION, INSPECTION, SUPERVISION, TESTING AND ALL OTHER ASPECTS OF THE WORK. THE CONTRACTOR SHALL NOTIFY MSMD AND ALL AFFECTED UTILITY COMPANIES ADJACENT TO THE PROPOSED UTILITY CONSTRUCTION A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION FOR SCHEDULING. THE CONTRACTOR SHALL SCHEDULE BI-WEEKLY CONSTRUCTION MEETINGS AT THE PROJECT SITE OR MORE FREQUENTLY AS DEEMED NECESSARY BY MSMD.
14. PRELIMINARY ACCEPTANCE SHALL BE DEFINED AS THE POINT IN TIME THAT MSMD ACCEPTS THE FACILITY FOR USE AND ALL SURFACE IMPROVEMENTS AND RESTORATIONS ARE COMPLETED.
15. FINAL ACCEPTANCE BY MSMD OF ANY UTILITY LINE OR SYSTEM SHALL NOT OCCUR UNTIL COMPLETION OF FINAL ASPHALT LAYERS AND/OR FINAL COMPLETION AND/OR RESTORATION OF ALL SURFACE IMPROVEMENTS. THE WARRANTY PERIOD FOR ALL FACILITIES SHALL BE 12 MONTHS COMMENCING WITH FINAL ACCEPTANCE. MSMD MAY REQUIRE RETESTING OF THE UTILITY SYSTEM PRIOR TO FINAL ACCEPTANCE.
16. INSPECTION FEES: CALL MSMD FOR FEE SCHEDULE.
17. ALL COMMERCIAL/BUSINESS DEVELOPMENTS SHALL HAVE A MINIMUM EIGHT INCH DIAMETER WATER MAIN LOOPED THROUGH THE PROPOSED PROPERTY WITH GATE VALVES LOCATED WHERE THE MAIN ENTERS AND EXITS THE PROPERTY AND A MINIMUM EIGHT INCH SANITARY SEWER MAIN WITH A MANHOLE IN THE STREET WHERE THE MAIN ENTERS THE PROPERTY. THE EXTENT OF THE MAINS SHALL BE MARKED WITH THE APPROPRIATELY COLORED CARSONITE MARKERS AND TRACER WIRE.
18. AFTER REVIEW AND APPROVAL OF PLANS FOR THE EXTENSION OF LINES, FACILITIES, AND/OR SERVICES, CONSTRUCTION MUST BE COMPLETED WITHIN 18 MONTHS FOR RESIDENTIAL SUBDIVISIONS AND 12 MONTHS FOR ANY COMMERCIAL INSTALLATIONS. IF WORK IS NOT COMPLETED WITHIN THIS TIME FRAME AND NO EXTENSION HAS BEEN GIVEN, THEN ALL PLANS MUST BE RE-SUBMITTED TO MSMD FOR REVIEW (WITH NEW FEES PAID) AND APPROVAL.
19. PUMPING OR BYPASS OPERATIONS SHALL BE REVIEWED AND APPROVED BY MSMD AND THE ENGINEER OF RECORD PRIOR TO EXECUTION.
20. ANY FACILITIES OUTSIDE OF PAVED ROADS MUST BE MARKED APPROPRIATELY WITH CARSONITE MARKERS AT EACH VALVE, MANHOLE, TEST STATION, AND ANY OTHER FACILITIES MSMD DEEMS NECESSARY.

SANITARY SEWER NOTES

21. SANITARY SEWER MANHOLES WITH ONE ENTRANCE PIPE SHALL BE A MINIMUM OF FOUR (4) FOOT IN DIAMETER, ALL OTHERS SHALL BE A MINIMUM OF FIVE (5) FOOT IN DIAMETER. ALL MANHOLE JOINT EXTERIORS SHALL BE WRAPPED WITH MINIMUM 12" WIDE CON-SEAL CS-212 APPLIED OVER APPROPRIATE MSMD APPROVED JOINT PRIMER. THE WHOLE EXTERIOR OF THE MANHOLES SHALL BE COATED WITH CONCRETE WATER PROOFING TAR APPLIED PER CSUS.
22. ALL SANITARY SEWER MAINS, SANITARY SEWER LATERALS, AND WATER MAIN LINES (PVC & DUCTILE IRON) SHALL BE INSTALLED WITH COATED 12 GAUGE U.F. TRACER WIRE PER MSMD SPECIFICATIONS. SANITARY SEWER TRACER WIRE SHALL BE EXTENDED INTO THE MANHOLES AND WRAPPED AROUND THE TOP STEP OF THE MANHOLE AND EXTENDED TO EACH SANITARY SEWER LATERAL 2" X 4" MARKER AS NOTED BELOW (NOTE 26 AND 28). EXTEND TRACER WIRE TO THE TOP OF WATER VALVE BOXES A MINIMUM OF EVERY 500 FEET.
23. TESTING OF FACILITIES:  
a. THE CONTRACTOR SHALL NOTIFY MSMD A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF ANY TESTING TO ALLOW MSMD STAFF TO BE PRESENT AT ALL TIMES DURING TESTING. ALL TESTING SHALL BE PER MSMD SPECIFICATIONS OR CSUS, WHICHEVER IS GREATER.  
b. ALL SANITARY SEWER FACILITIES SHALL MEET THE FOLLOWING TESTING REQUIREMENTS:  
• ALL SANITARY SEWER MAIN SHALL BE PRESSURE TESTED PER CSUS.  
• ALL SEWER MAIN SHALL BE PROPERLY BALLED/MANDRILL.  
• ALL SANITARY SEWER MANHOLES SHALL BE VACUUM TESTED PER CSUS.  
• ALL SANITARY SEWER MAINS SHALL BE CCTV INSPECTED WITH TWO VIDEOS ON DVDS SUBMITTED TO MSMD FOR REVIEW AND APPROVAL. ALL SANITARY SEWER MAINS SHALL BE JET CLEANED AND FLUSHED DIRECTLY PRIOR TO CCTV INSPECTION WITH RUNNING WATER IN THE SANITARY SEWER MAIN DURING THE CCTV INSPECTION. SANITARY SEWER MAINS THAT DO NOT MEET MSMD STANDARDS SHALL BE REPLACED AND OR REPAIRED AS NECESSARY AND RE-TESTED.
24. COMMENCEMENT OF USE OF ANY SANITARY SEWER LINES AND/OR SYSTEMS. NO SANITARY SEWER FACILITY SHALL BE PLACED IN SERVICE UNTIL:  
a. MSMD HAS APPROVED ALL TESTS AND COMPACTION TESTING REPORTS, AS-BUILT DRAWINGS AND REVIEWS ARE SUBMITTED TO AND APPROVED BY MSMD.  
b. ALL SANITARY SEWER LINES ARE COMPLETED AND THE FIRST LIFT OF ASPHALT IS COMPLETED OVER THE LINE. IN THE CASE WHERE NO ASPHALT IS TO BE PLACED OVER THE LINE, ANY REQUIRED SURFACE IMPROVEMENTS SHALL BE COMPLETED PRIOR TO USE OF THE FACILITY.  
c. ALL NECESSARY EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED TO MSMD, AND RECORDED.  
d. DOWNSTREAM PLUG CAN BE REMOVED ONCE FIRST LIFT OF ASPHALT IS DOWN AND THE ABOVE REQUIREMENTS ARE MET.

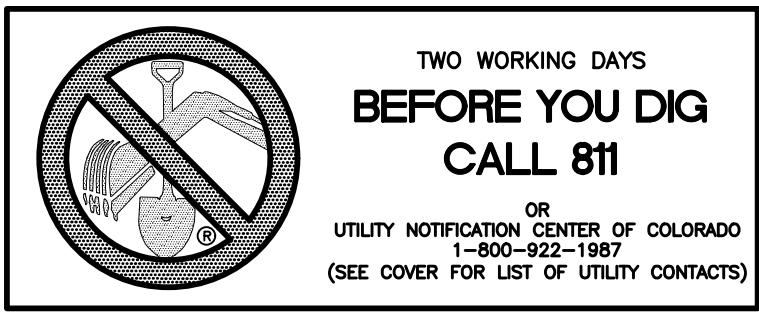
25. WHEN A RESIDENTIAL SEWER SERVICE IS INSTALLED ON AN EXISTING SEWER MAIN A DOUBLE STRAP STAINLESS STEEL SADDLE TEE SHALL BE USED. THE SADDLE TEE, GASKET HUB & GASKET SKIRT MUST BE A STRAIGHT STYLE CONNECTION; NO "Y" STYLE WILL BE ALLOWED. ALL SEWER SERVICE CORE CUTOUTS MUST BE RECOVERED AND RETURNED TO THE DISTRICT FOR INSPECTION. IF ALL SEWER SERVICE CORE CUTOUTS ARE RECOVERED AND COMPLETE, THEN NO VIDEO INSPECTION OF THAT PORTION OF THE SEWER MAIN IS REQUIRED. IF ANY SEWER SERVICE CORE CUTOUT OR PORTION THERE FROM IS NOT RECOVERED, THAT SECTION OF SEWER MAIN SHALL BE CLEANED AND VIDEO INSPECTED TO ENSURE THAT THE SEWER SERVICE CORES OR PORTION THERE FROM IS RECOVERED.
26. SANITARY SEWER MAIN LENGTHS ARE MH CENTER TO MH CENTER. ALL SANITARY SEWER PIPES SHALL BE SDR 35 PVC OR EQUIV. AND HAVE A MINIMUM COVER DEPTH OF 5'-6" INSTALLED WITH A COATED 12 GAUGE U.F. TRACER WIRE. USE PRE-MANUFACTURED IN-LINE PVC PUSH-ON WYES FOR SANITARY SEWER LATERAL CONNECTIONS TO THE SANITARY SEWER MAIN. TAPPING SADDLES MAY ONLY BE USED FOR TAPPING PRE-EXISTING SANITARY SEWER MAINS. ALL LOTS SHALL RECEIVE A 4" SANITARY SEWER SERVICE LATERAL. THE END OF EACH SANITARY SEWER SERVICE LATERAL SHALL BE "LOCATED" WITH A WOOD 2" X 4" EXTENDED 4' ABOVE FINISH GRADE FROM THE END OF THE SERVICE LOCATION AND PAINTED GREEN ABOVE FINISH GRADE. EXTEND THE COATED 12 GAUGE U.F. TRACER WIRE TO END OF EACH SANITARY SEWER LATERAL, UP TO THE SURFACE COILED AROUND THE 2" X 4" MARKER. ALL TRACER WIRE CONNECTIONS SHALL BE WATER TIGHT STYLE OF APPROVED ELECTRICAL CONNECTORS SUCH AS A DBY (DIRECT BURY YELLOW) OR EQUAL.

WATER NOTES

27. ALL WATER MAIN PIPES SHALL BE AWWA C900 PVC, PRESSURE CLASS 200 OR MSMD APPROVED EQUAL, INSTALLED PER MANUFACTURERS' SPECIFICATIONS. ALL WATER MAIN FITTINGS SHALL HAVE MECHANICAL RESTRAINTS AND THRUST BLOCKS. ALL WATER MAIN PIPES SHALL HAVE A MINIMUM COVER DEPTH OF 5'-6" INSTALLED WITH A COATED 12 GAUGE U.F. TRACER WIRE.
28. ALL LOTS SHALL RECEIVE A MINIMUM 3/4 " DIAMETER HDPE OR COPPER WATER SERVICE INSTALLED PER APPROVED PLANS CSUS AND MSMD SPECIFICATIONS. HDPE WATER SERVICE SHALL BE HDPE SDR-7 PE4710 RATED FOR 200 PSI WITH THE MARKING SDR-7, AWWA C901, NSF61 PE4710. WATER SERVICES SHALL BE INCREASED IN SIZE TO 1" DIAMETER WHERE THE RESIDENTIAL SERVICE WATER PRESSURE IS LESS THAN 40 PSI AT 10 GPM DEMAND AND ALL 1/3 ACRE OR GREATER LOTS SHALL RECEIVE A MINIMUM 1" DIAMETER WATER SERVICE AS INDICATED ON THE PLANS. THE CURB STOP VALVE AND BOX AT THE END OF EACH WATER SERVICE SHALL BE "LOCATED" WITH A 2" X 4" PIECE OF WOOD EXTENDED 4' ABOVE FINISH GRADE, PAINTED BLUE, DIRECTLY BEHIND THE CURB STOP VALVE AND BOX. ALL TRACER WIRE CONNECTIONS SHALL BE MADE WITH DBY (DIRECT BURY YELLOW) WATER TIGHT STYLE ELECTRICAL CONNECTORS OR EQUAL.
29. IF HDPE WATER SERVICES ARE TO BE USED THEY SHALL INCLUDE A ROMAC 202 NS OR EQUAL TAPPING SADDLE AND A CURB STOP VALVE INSIDE A CURB STOP BOX AT THE END OF THE WATER SERVICE. ALL CORPORATION STOPS SHALL BE AY MCDONALD MODEL NUMBER 74701B-33 FOR SDR HDPE SAME SIZE AS THE WATER SERVICE. ALL CURB STOP VALVES SHALL BE ¾" AY MCDONALD MODEL NUMBER 76100 (FLARE X FLARE) OR EQUIVALENT WITH A MAIN SIDE ONE PACK JOINT (PEP) ADAPTOR AY MCDONALD MODEL NUMBER 74755-33 UNLESS OTHERWISE NOTED ON THE PLANS. ALL 1" DIAMETER WATER SERVICES SHALL RECEIVE A 1" INLET BY ¾" OUTLET CURB STOP VALVE.
30. IF COPPER WATER SERVICES ARE TO BE USED THEY SHALL INCLUDE A ROMAC 202 BS OR EQUAL TAPPING SADDLE AND A CURB STOP VALVE INSIDE A CURB STOP BOX AT THE END OF THE WATER SERVICE. ALL CURB STOP VALVES SHALL BE ¾" UNLESS OTHERWISE NOTED ON THE PLANS. ALL 1" DIAMETER WATER SERVICES SHALL RECEIVE A 1" INLET BY ¾" OUTLET CURB STOP VALVE MANUFACTURED BY AY MCDONALD MODEL NUMBER 6104 (FLARE X FLARE) OR EQUIVALENT.
31. ALL POTABLE WATER VALVES SHALL OPEN CLOCKWISE WITH THE VALVE OPERATING NUT INSTALLED LOW NEAR THE MAIN LINE AND PAINTED RED. ALL POTABLE AND RAW WATER VALVES NOT WITHIN PAVED STREETS SHALL BE MARKED WITH CARSONITE MARKERS. ALL RAW WATER VALVES SHALL OPEN COUNTERCLOCKWISE WITH THE VALVE OPERATING NUT INSTALLED HIGH WITHIN 1' FROM THE SURFACE AND PAINTED BLACK.
32. ALL POTABLE WATER, RAW WATER AND NON-POTABLE WATER VALVES 14" OR GREATER SHALL BE BUTTERFLY VALVES WITH A SIDE OPERATING NUT. THE OPERATIONAL DEPTH OF THE POTABLE WATER VALVES SHALL NOT EXCEED 6' IN OVERALL DEPTH NOR SHALL IT BE CLOSER TO THE SURFACE THEN 4'
33. FIRE HYDRANT LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE APPLICABLE FIRE DEPARTMENT AUTHORITY.
34. FIRE HYDRANTS SHALL BE AVK MODEL 2780 NOSTALGIC OPEN RIGHT WITH A 1 ½" PENTAGON OPERATING NUT AND SERVICE CAPS, STANDARD 4 1/2" PUMPER NOZZLE WITH A THREAD PATTERN OF 5 - 3/8" - 6 TPI (THREADS PER INCH) ALONG WITH TWO STANDARD 2 ½" NST (NATIONAL STANDARD THREAD) SIDE NOZZLES.
35. ALL DUCTILE IRON PIPES, FITTINGS, VALVES AND FIRE HYDRANTS SHALL BE WRAPPED WITH POLYETHYLENE TUBING, DOUBLE BONDED AT EACH JOINT AND ELECTRICALLY ISOLATED. BONDING AND ANODE CONNECTIONS SHALL BE THOROUGHLY COATED WITH BITUMINOUS COATINGS.
36. ALL DUCTILE IRON PIPE AND FITTINGS LESS THAN 12 INCHES IN DIAMETER SHALL HAVE CATHODIC PROTECTION USING TWO NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 400 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING. ALL DUCTILE IRON PIPE AND FITTINGS 12 INCHES AND GREATER SHALL HAVE CATHODIC PROTECTION USING TWO NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 300 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING. CATHODIC PROTECTION AND ANODES SHALL BE INSTALLED PER MSMD SPECIFICATIONS.
37. ALL EXISTING WATER UTILITY MATERIAL REMOVED AS PART OF THE WORK ON THESE DRAWINGS SHALL BE RETURNED TO MSMD AS REQUESTED.
38. TESTING OF FACILITIES:  
a. THE CONTRACTOR SHALL NOTIFY MSMD A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF ANY TESTING TO ALLOW MSMD STAFF TO BE PRESENT AT ALL TIMES DURING TESTING. ALL TESTING SHALL BE PER MSMD SPECIFICATIONS OR CSUS, WHICHEVER IS GREATER.  
b. ALL SECTIONS OF WATER LINES MUST FIRST PASS A CHLORINE TEST WITH A MINIMUM OF 50 PARTS PER MILLION OF RESIDUAL AFTER 24 HOURS. THE WHOLE SECTION OF LINE BEING TESTED MUST BE RE-CHLORINATED AND RE-TESTED IF IT DOES NOT PASS. ONCE THE SECTION OF LINE BEING TESTED PASSES THE CHLORINE TEST THE LINE MUST BE FLUSHED AND BAC-T TESTED PER CSUS. ONCE THE BAC-T TEST PASSES, THE SECTION OF LINE MAY BE PRESSURE TESTED. WATER FLUSHED FROM THE WATER SYSTEM MUST BE PROPERLY DE-CHLORINATED DURING THE FLUSHING PROCESS.  
c. ALL SECTIONS OF WATER LINES MUST PASS A TWO HOUR 200 PSI HYDROSTATIC PRESSURE TEST. THE PRESSURE SHALL NOT DECREASE BY MORE THAN 5 PSI DURING THE DURATION OF THE TEST. NO WATER SHALL BE ADDED DURING THE PRESSURE TEST. IF THE PRESSURE TEST FAILS, THE SECTIONS OF LINE THAT FAILED MUST AGAIN PASS THE CHLORINE TEST, BE FLUSHED, AND PASS THE BAC-T TEST PRIOR TO CONDUCTING A NEW PRESSURE TEST.  
d. ONCE WATER SERVICES ARE INSTALLED A SECOND WATER PRESSURE TEST MUST BE DONE TO A WORKING PSI OF 150 PSI FOLLOWING THE ABOVE TESTING STANDARDS.  
e. SECTIONS OF WATER LINES SHALL BE LEFT PRESSURIZED ONCE THE WATER LINES HAVE PASSED ALL TESTING DURING THE REMAINING CONSTRUCTION ACTIVITIES.

39. COMMENCEMENT OF USE OF WATER LINES AND/OR SYSTEMS. NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL:  
a. MSMD HAS APPROVED ALL TESTS AND COMPACTION TESTING REPORTS, AND AS-BUILT DRAWINGS ARE SUBMITTED TO AND APPROVED BY MSMD.  
b. ALL WATER LINES ARE COMPLETED AND THE FIRST LIFT OF ASPHALT IS COMPLETED OVER THE LINE. IN THE CASE WHERE NO ASPHALT IS TO BE PLACED OVER THE LINE, SURFACE IMPROVEMENTS SHALL BE COMPLETED PRIOR TO USE OF THE FACILITY.  
c. ALL EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED TO MSMD, AND RECORDED.
40. ANY WATER SHUT DOWNS THAT NEED TO OCCUR ON THE CRITICAL LINES AS DEFINED BY THE MSMD SHOP (STANDARD OPERATION PROCEDURE) MANUAL SHALL BE COORDINATED WITH MSMD STAFF FOR NIGHT TIME SHUT DOWNS.
41. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONNECTIONS TO EXISTING WATER MAINS WITHOUT A SHUTDOWN OF THE WATER SYSTEM. IN THE EVENT THAT A SHUTDOWN OF A WATER SYSTEM IS NECESSARY, THE CONTRACTOR SHALL ACQUIRE A PERMIT FROM MSMD.
42. ALL NON-POTABLE WATER MAINS SHALL BE AWWA NON-POTABLE STANDARD (PURPLE PIPE) C900 PVC, PRESSURE CLASS 200 OR MSMD APPROVED EQUAL, INSTALLED PER MANUFACTURERS' SPECIFICATIONS. ALL WATER MAIN FITTINGS SHALL HAVE MECHANICAL RESTRAINTS AND THRUST BLOCKS. ALL WATER MAIN PIPES SHALL HAVE A MINIMUM COVER DEPTH OF 5'-6" INSTALLED WITH A COATED 12 GAUGE U.F. TRACER WIRE.
43. ALL NON- POTABLE WATER VALVES SHALL OPEN COUNTER CLOCKWISE WITH A VALVE EXTENSION, EXTENDING TO WITHIN 1' OF THE SURFACE AND PAINTED PURPLE WITH AN OPEN DIRECTION ARROW.
44. IRRIGATION SERVICES SHALL HAVE A STOP AND WASTE CURB STOP VALVE INSTALLED ALONG WITH A TRACER WIRE EXTENDING BACK TO THE MAIN LINE.

THE ABOVE GUIDELINES ARE SUBJECT TO CHANGE AT ANY TIME.



EL PASO COUNTY GENERAL NOTES:

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

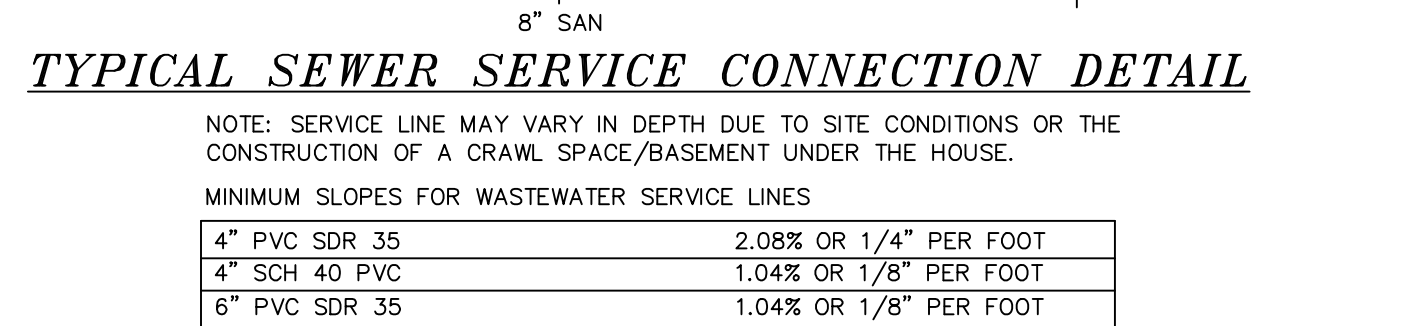
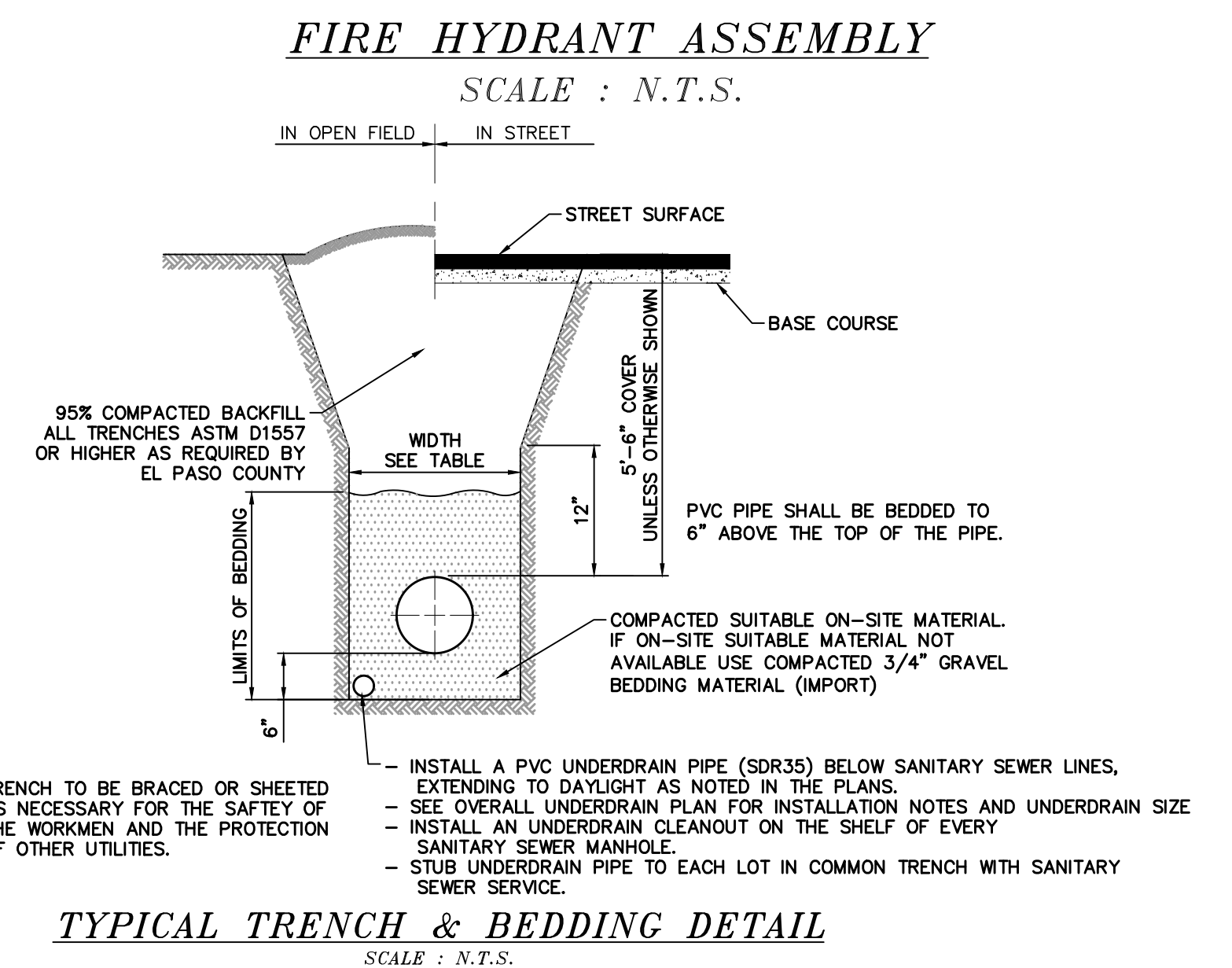
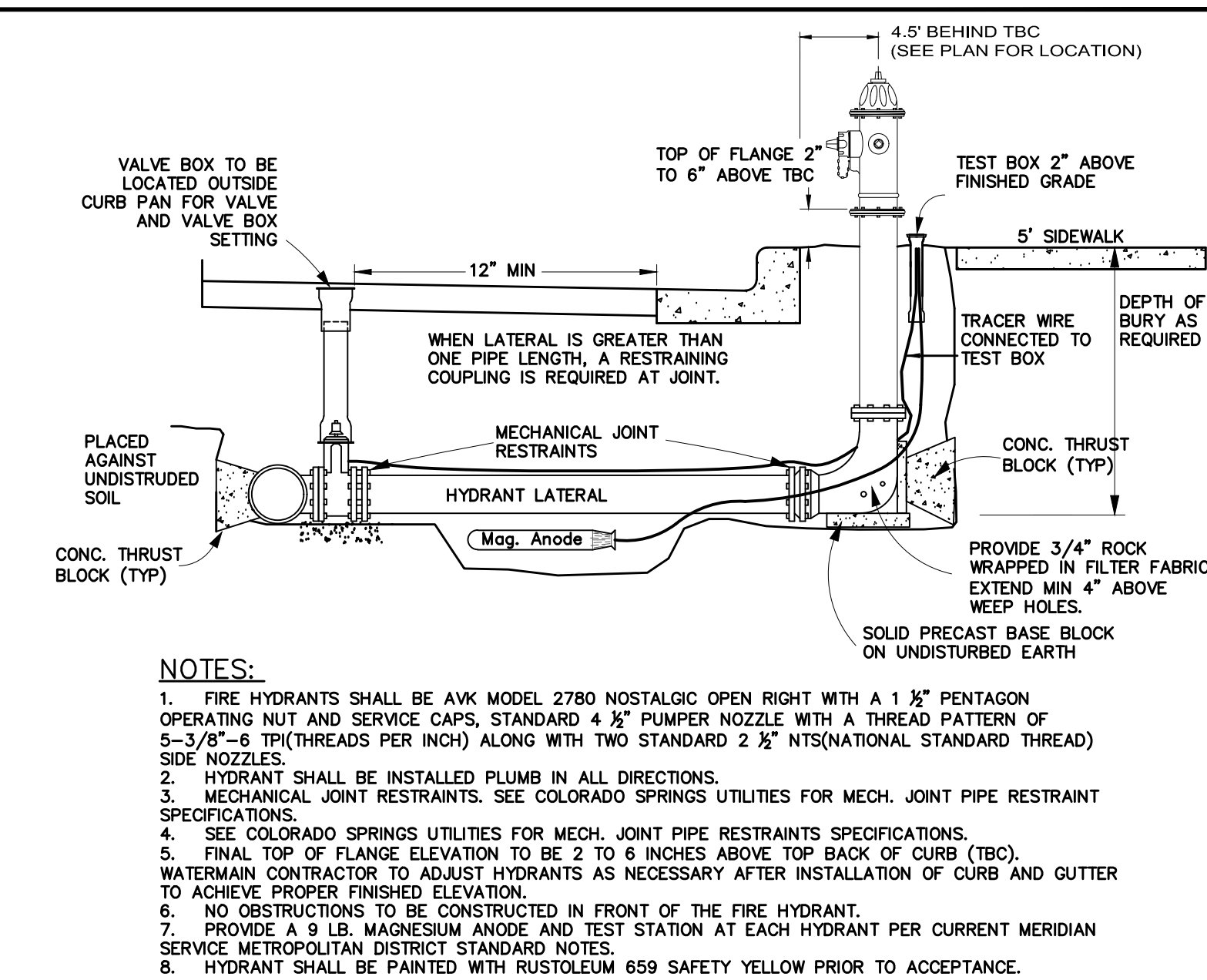
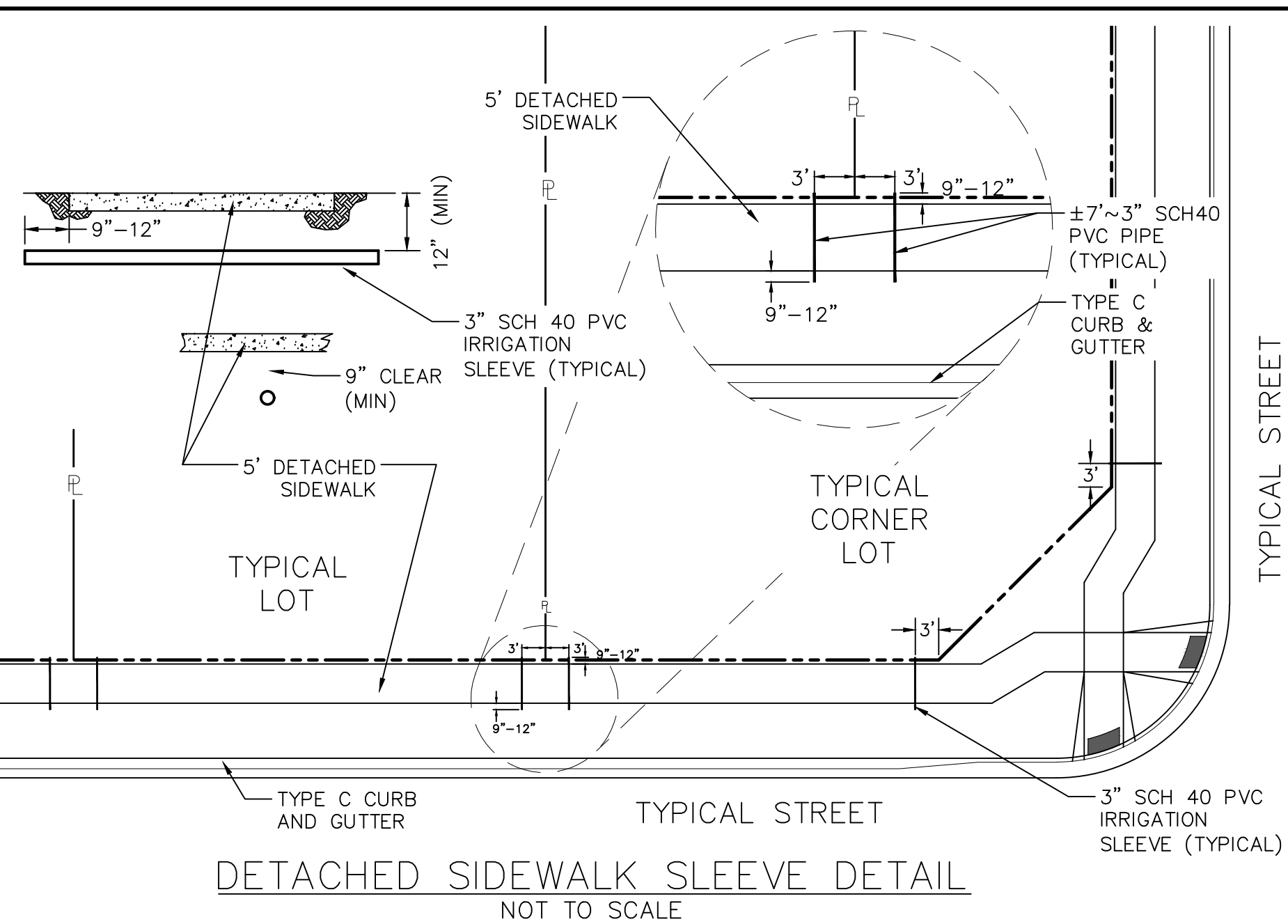
GENERAL NOTES:

1. THE CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL APPLICABLE CODES, LICENSES, STANDARDS, PERMITS, BONDS, ETC. WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK.
2. LOCATIONS AND ELEVATIONS OF EXISTING IMPROVEMENTS TO BE MET (OR AVOIDED) BY WORK TO BE DONE SHALL BE CONFIRMED BY THE CONTRACTOR THROUGH FIELD EXPLORATIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPORT TO THE ENGINEER ANY DISCREPANCIES BETWEEN HIS MEASUREMENTS AND THESE PLANS.
3. ANY CONSTRUCTION DEBRIS OR MUD DROPPED INTO MANHOLES, INLETS, PIPES OR TRACKED ONTO EXISTING ROADWAYS SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR ANY EXCAVATIONS OR PAVEMENT FAILURES CAUSED BY HIS CONSTRUCTION. THE CONTRACTOR SHALL PROPERLY BARRICADE THE CONSTRUCTION SITE UNTIL CONSTRUCTION IS COMPLETE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NOT OBTAINED BY THE OWNER OR OWNER'S REPRESENTATIVES AND PAY ALL FEES AS REQUIRED BY THE CONSTRUCTION COVERED IN THESE PLANS.
5. ALL WORK AND MATERIALS WILL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
6. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING ALL QUANTITIES. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS AS SHOWN ON THESE PLANS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SITE SAFETY OF HIS OWN PERSONNEL, ALL VISITORS TO THE SITE, AND THE GENERAL PUBLIC INCLUDING, BUT NOT LIMITED TO, TRENCH EXCAVATION AND SHORINGS, TRAFFIC CONTROL, AND SECURITY NOT LIMITED TO NORMAL WORKING HOURS.

8. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL SITE IMPROVEMENTS (INCLUDING BUT NOT LIMITED TO: UTILITIES, STRUCTURES, PAVING, LANDSCAPING, ETC.) SUCH THAT NO DAMAGE IS DONE TO SITE IMPROVEMENTS (I.E.: SAWCUTTING NEW PAVEMENT). SITE IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED, TO EQUAL OR BETTER CONDITION, TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
9. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE THAT A PRIOR UNIDENTIFIED SITUATION IS PRESENT, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
10. THE CONTRACTOR SHALL REMOVE ALL DEBRIS RESULTING FROM WORK UNDER THIS CONTRACT TO AN APPROVED DUMP SITE.
11. USE ONLY DIMENSIONS PROVIDED ON THESE PLANS. DO NOT SCALE DRAWINGS. INFORM ENGINEER OF ANY DISCREPANCIES AND/OR MISSING INFORMATION.
12. CONTRACTOR TO OBTAIN DEWATERING PERMIT, IF REQUIRED, FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) PRIOR TO COMMENCING WORK. DISCHARGES SHALL BE MONITORED ACCORDING TO THE CONDITIONS OF THE CDPHE PERMIT.
13. CONTRACTOR TO OBTAIN AND READ THE GEOTECHNICAL ENGINEERING STUDY) PREPARED FOR THIS PROJECT. IN CASE OF ANY CONFLICT WITH THESE PLANS AND SITEWORK SPECIFICATIONS REGARDING PAVING AND EARTHWORK, CONTACT ENGINEER IMMEDIATELY. ALL PAVING AND EARTH WORK SHALL CONFORM TO THE RECOMMENDATIONS OF THIS REPORT.
14. STREET NAME SIGNS TO BE MOUNTED ON TOP OF STOP SIGNS AT LOCATIONS SHOWN ON PLANS.
15. LAMBERT ROAD IS CLASSIFIED AS AN URBAN RESIDENTIAL COLLECTOR AND HAS A DESIGN SPEED OF 40 MPH WITH A POSTED SPEED OF 35 MPH. ALL OTHER ROADS IN THIS FLING EXCEPT ARE CLASSIFIED AS RESIDENTIAL URBAN LOCAL AND HAVE A DESIGN AND POSTED SPEED OF 25 MPH.

|                                                                                                               |          |     |            |     | Date      |
|---------------------------------------------------------------------------------------------------------------|----------|-----|------------|-----|-----------|
|                                                                                                               |          |     |            |     | Appr.     |
|                                                                                                               |          |     |            |     | Init.     |
|                                                                                                               |          |     |            |     | Date      |
| 1                                                                                                             | 2        | 3   | 4          | No. | Revisions |
| TECH CONTRACTORS<br>11886 STAPLETON DRIVE<br>FALCON, CO 80831<br>TELEPHONE: 719.495.7444<br>FAX: 719.495.2457 |          |     |            |     |           |
| <br>MERIDIAN RANCH       |          |     |            |     |           |
| ROLLING HILLS RANCH FLING 1<br>AT MERIDIAN RANCH<br>STREET AND UTILITY PLANS<br>NOTES SHEET                   |          |     |            |     |           |
| Scale                                                                                                         | Drawn by | Loc | Checked by | TAK | Date      |
| AS SHOWN                                                                                                      |          |     |            |     | NOV 2019  |
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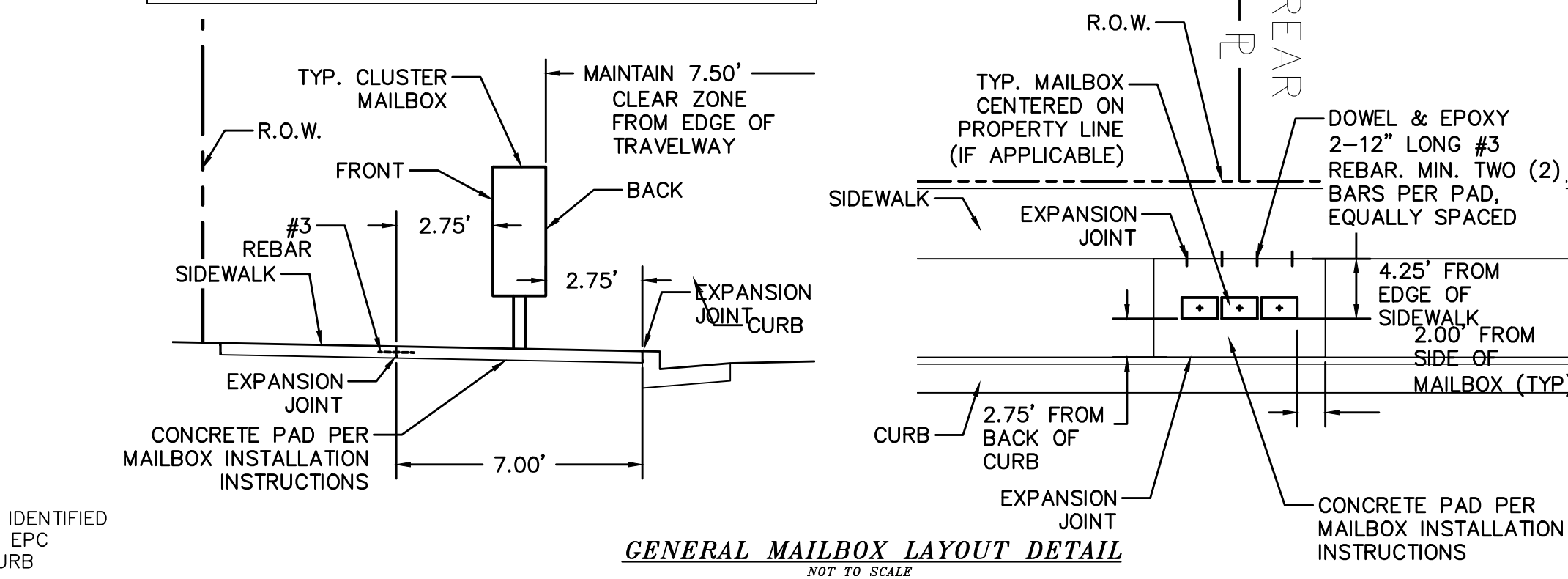
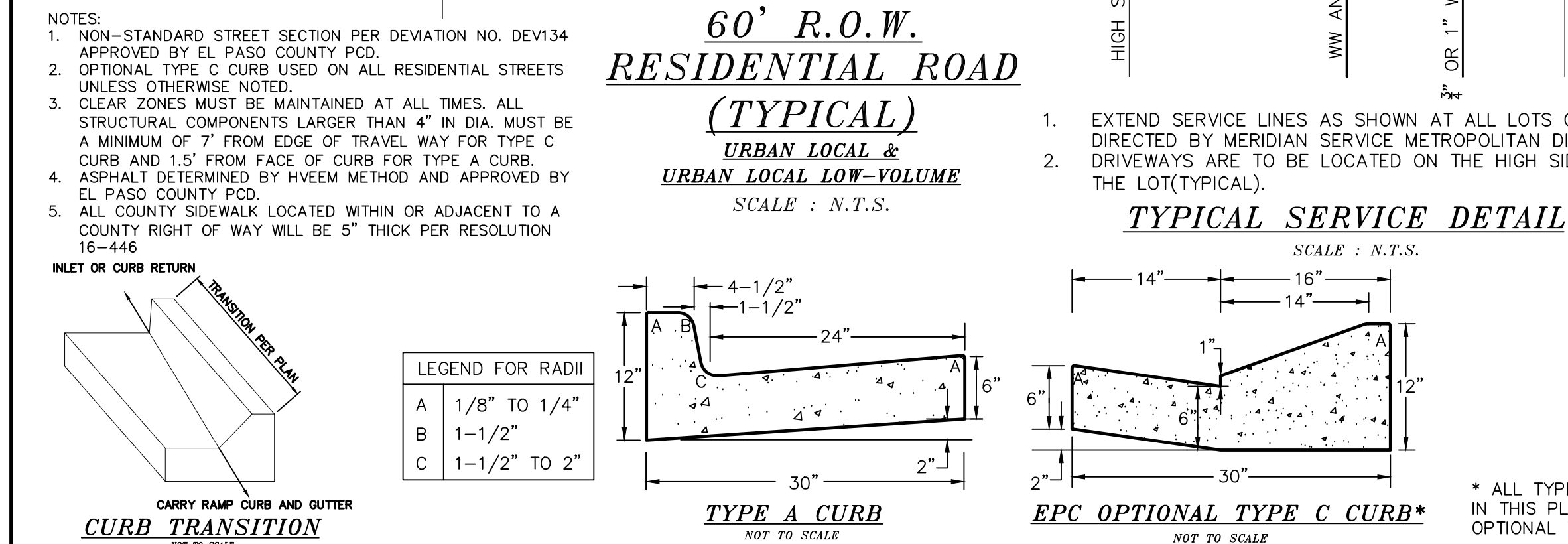




1. EXTEND SERVICE LINES AS SHOWN AT ALL LOTS  
DIRECTED BY MERIDIAN SERVICE METROPOLITAN DISTRICT

2. DRIVEWAYS ARE TO BE LOCATED ON THE HIGH SIDE OF  
THE LOT(TYPICAL).

**TYPICAL SERVICE DETAIL**



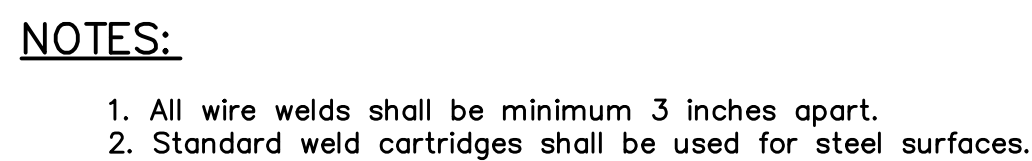
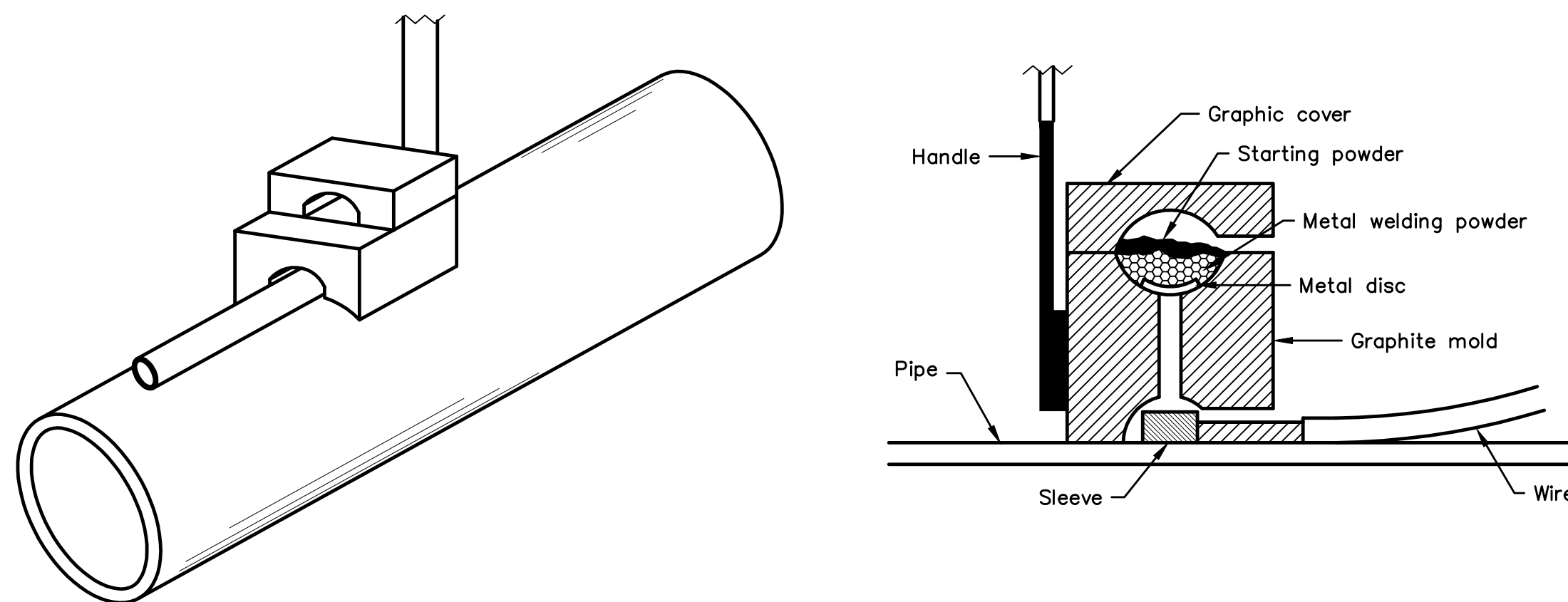
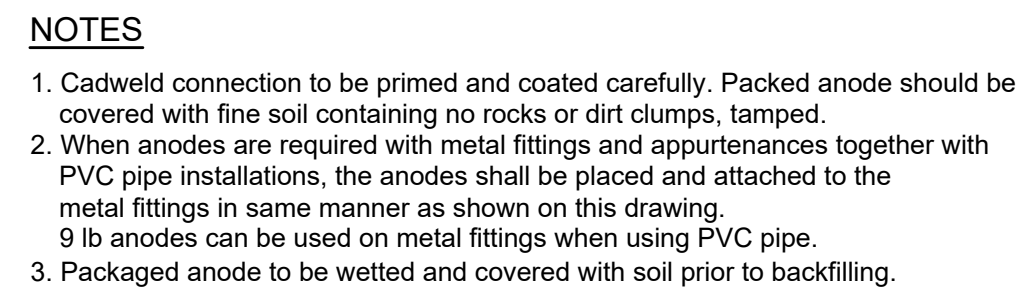
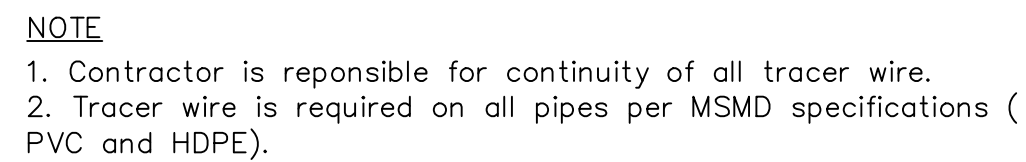
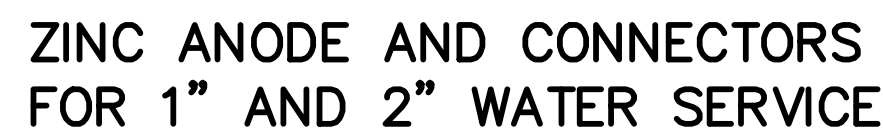
### *PIPE CHART*

| PIPE<br>DIAMETER | MINIMUM<br>WIDTH | MAXIMUM<br>WIDTH |
|------------------|------------------|------------------|
| 4"               | 1'-4"            | 4'-0"            |
| 6"               | 1'-6"            | 4'-0"            |
| 8"               | 1'-8"            | 4'-0"            |
| 12"              | 2'-0"            | 4'-0"            |
| 18"              | 3'-0"            | 4'-0"            |
| 24"              | 3'-6"            | 4'-0"            |
| 30"              | 4'-0"            | 6'-0"            |
| 36"              | 5'-0"            | 6'-0"            |
| 42"              | 6'-0"            | 8'-0"            |
| 48"              | 6'-0"            | 8'-0"            |
| 54"              | 8'-0"            | 8'-0"            |
| 60"              | 8'-0"            | 8'-0"            |
| 66"              | 8'-0"            | 10'-0"           |
| 72"              | 10'-0"           | 12'-0"           |

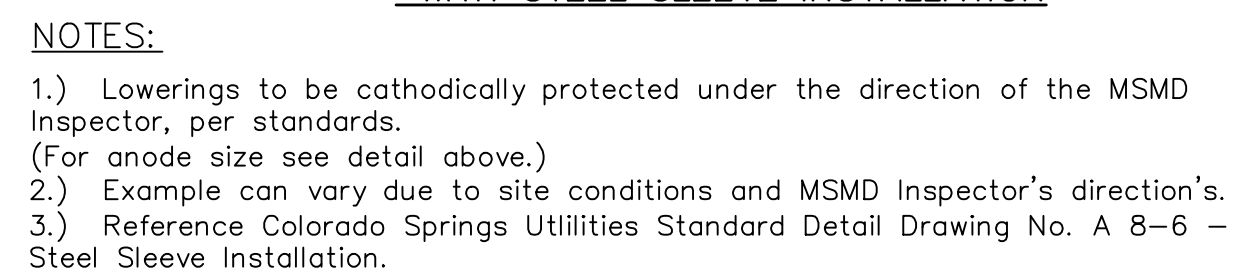
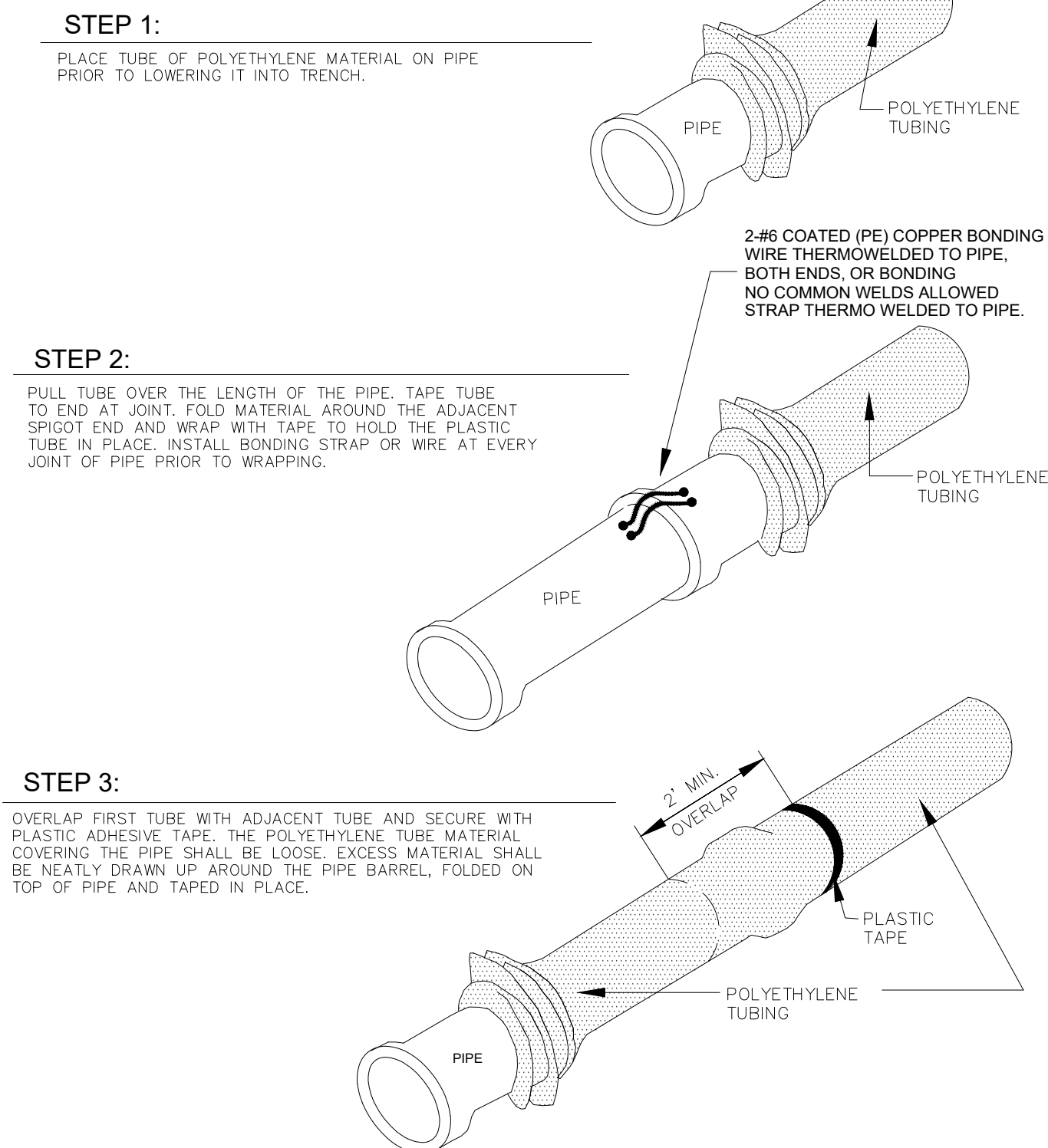
| <u><b>SYMBOL</b></u> | <u><b>ACRONYM</b></u> | <u><b>DESCRIPTION</b></u>                                  |
|----------------------|-----------------------|------------------------------------------------------------|
|                      | RCP W/FES             | REINFORCED CONCRETE PIPE W/FLARED END SECTIONS             |
|                      | INLET                 | STORM SEWER INLET BOX                                      |
|                      | SDMH                  | STORM SEWER MANHOLE                                        |
|                      | ST                    | STORM SEWER LINE (PUBLIC UNLESS OTHERWISE NOTED)           |
|                      | SS                    | SANITARY SEWER MAIN                                        |
|                      | SSMH                  | SANITARY SEWER MANHOLE                                     |
|                      | WM                    | WATER MAIN (ALL PIPES PVC, UNLESS OTHERWISE NOTED)         |
|                      | GV                    | WATER GATE VALVE                                           |
|                      | BV                    | WATER BUTTERFLY VALVE                                      |
|                      | BOV                   | WATER BLOW-OFF VALVE                                       |
|                      | HYD ASSY              | FIRE HYDRANT ASSEMBLY                                      |
|                      | TEE W/GV              | WATER TEE W/ GATE VALVES                                   |
|                      | ATT SW                | ATTACHED SIDEWALK                                          |
|                      |                       | STANDARD PEDESTRIAN RAMP PER SD-2-40 & M-608-1 (SH 6 OF 6) |
|                      |                       | ANODE (CATHODIC PROTECTION)                                |
|                      | TS                    | TEST STATION                                               |
|                      | HB                    | HAY BALE DAM                                               |
|                      | SF                    | SILT FENCE                                                 |
|                      | EXIST                 | EXISTING FEATURES                                          |
|                      |                       | LOT NUMBERS                                                |
|                      |                       | CROSS PAN PER SD-2-26                                      |
|                      | R1-1                  | STOP SIGN - R1-1, 30x30 UNLESS OTHERWISE NOTED             |
|                      |                       | EXISTING CONTOUR (10')                                     |
|                      |                       | EXISTING CONTOUR (2')                                      |

[illegible]





## EXOTHERMIC WELD PROCESS

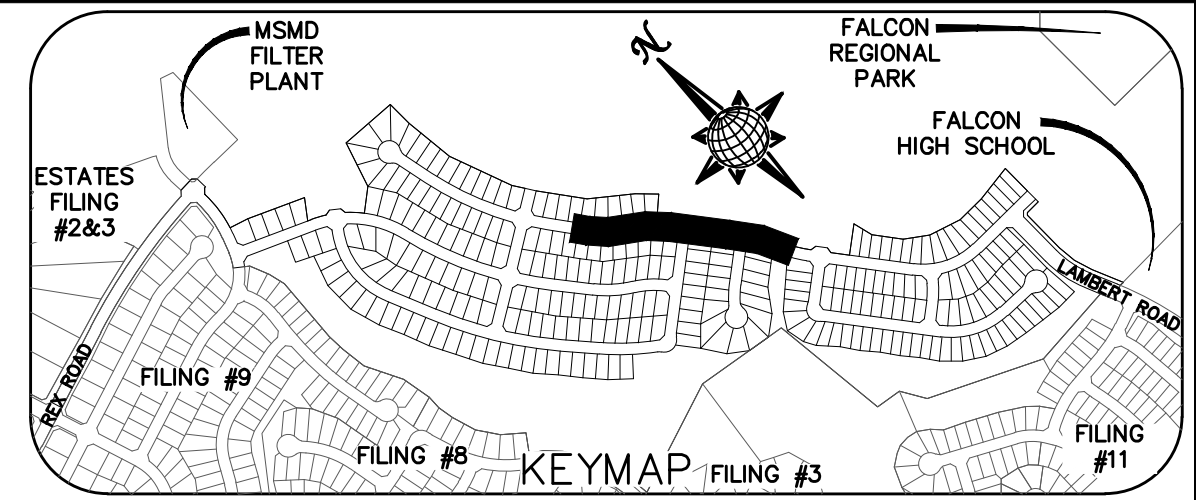
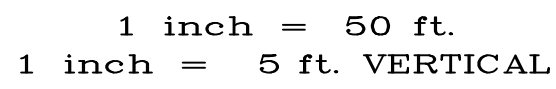
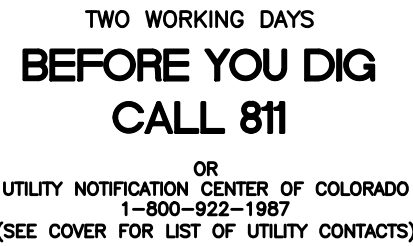


|                                                         |                                      |                                                                                                             |                                                                                                                           |                                                                                                                              |     |           |      |       |
|---------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----|-----------|------|-------|
| <div>Scale</div> <div>AS SHOWN</div> <div>5 of 42</div> | <div>Drawn by</div> <div>LGA</div>   | <div>ROLLING HILLS RANCH FILING 1<br/>AT MERIDIAN RANCH<br/>STREET AND UTILITY PLANS<br/>DETAIL SHEET</div> | <div><br/><b>MERIDIAN RANCH</b></div> | <div>TECH CONTRACTORS<br/>11886 STAPLETON DRIVE<br/>FALCON, CO 80831<br/>TELEPHONE: 719.495.7444<br/>FAX: 719.495.2457</div> | 1   | -         |      |       |
|                                                         | <div>Checked by</div> <div>TAK</div> |                                                                                                             |                                                                                                                           |                                                                                                                              | 2   | -         |      |       |
|                                                         | <div>Date</div> <div>NOV 2019</div>  |                                                                                                             |                                                                                                                           |                                                                                                                              | 3   | -         |      |       |
|                                                         |                                      |                                                                                                             |                                                                                                                           |                                                                                                                              | 4   | -         |      |       |
|                                                         |                                      |                                                                                                             |                                                                                                                           |                                                                                                                              | No. | Revisions | Date | Init. |





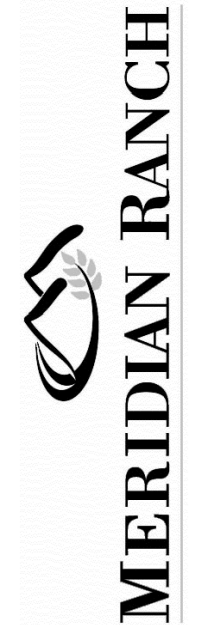




| CURVE TABLE |        |        |           |
|-------------|--------|--------|-----------|
| CURVE       | LENGTH | RADIUS | DELTA     |
| 10          | 30.63' | 19.50' | 90°00'00" |
| 11          | 30.63' | 19.50' | 90°00'00" |
| 12          | 30.63' | 19.50' | 90°00'00" |
| 13          | 30.63' | 19.50' | 90°00'00" |
| 14          | 30.63' | 19.50' | 90°00'00" |
| 15          | 30.63' | 19.50' | 90°00'00" |
| 16          | 30.63' | 19.50' | 90°00'00" |
| 17          | 30.63' | 19.50' | 90°00'00" |

ALL CURB RADII ARE TO TOP BACK OF  
CURB (TYP.)

URBAN LOCAL  
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



AT MERIDIAN RANCH  
STREET AND UTILITY PLANS  
ROLLING PEAKS DR.

|          |                   |
|----------|-------------------|
| AS SHOWN | LOG               |
|          | Checked by<br>TAK |
|          | Date<br>NOV 2019  |

1100

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1

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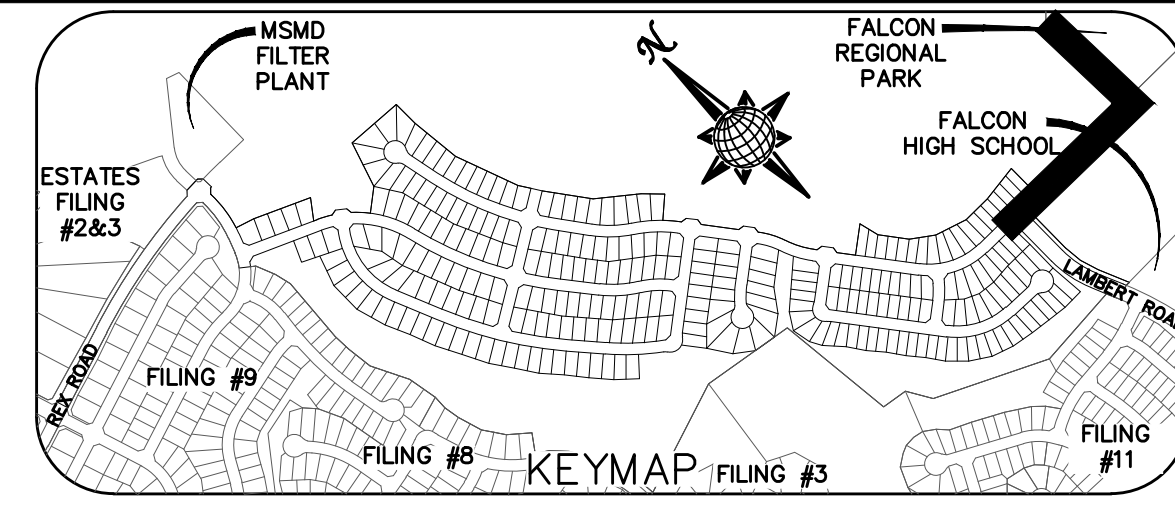
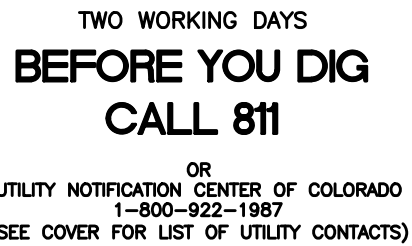
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4

**TECH CONTRACTORS**  
11886 STAPLETON DRIVE  
FALCON, CO 80831  
TELEPHONE: 719.495.7444  
FAX: 719.495.2457

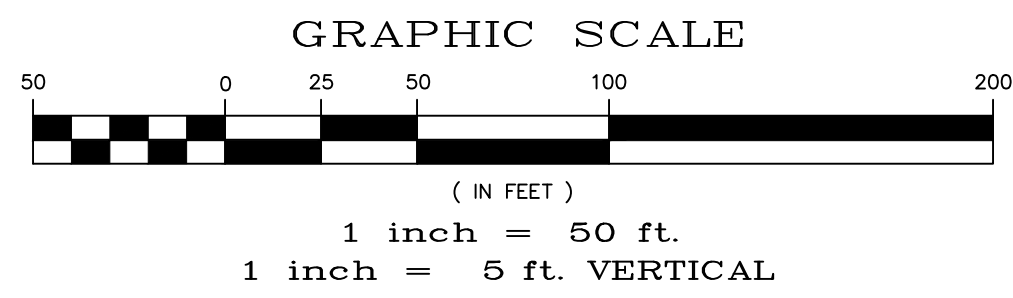






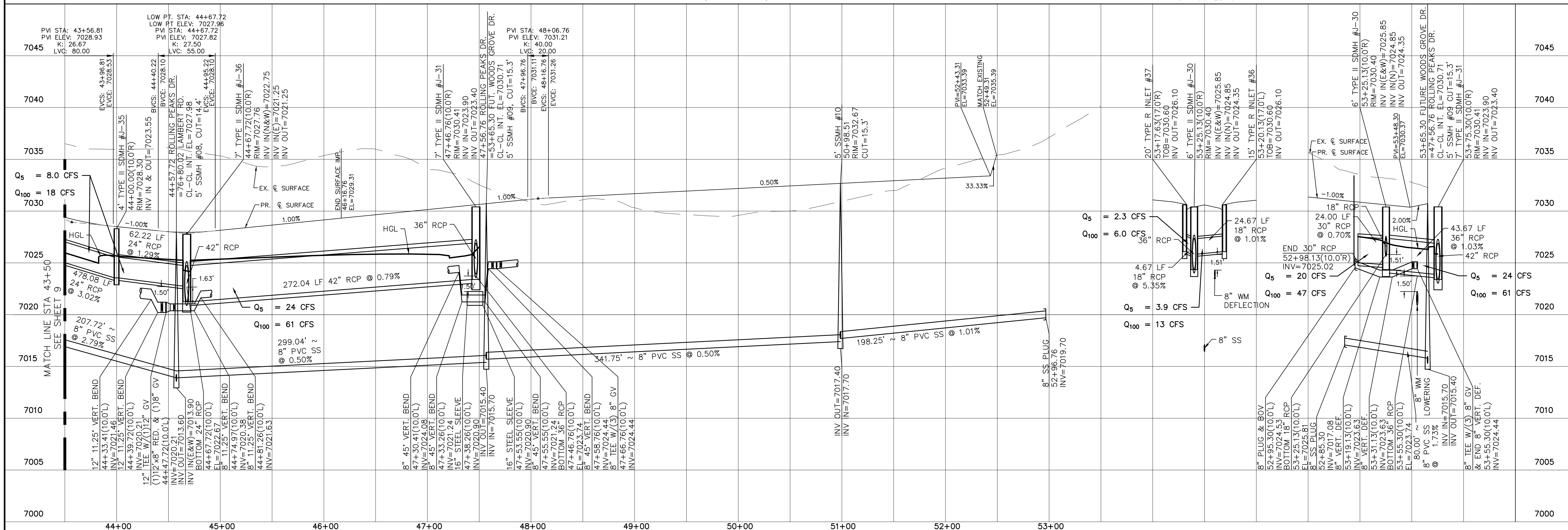
| CURVE TABLE |        |        |           |
|-------------|--------|--------|-----------|
| CURVE       | LENGTH | RADIUS | DELTA     |
| 1           | 38.48' | 24.50' | 90°00'00" |
| 2           | 38.48' | 24.50' | 90°00'00" |


ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



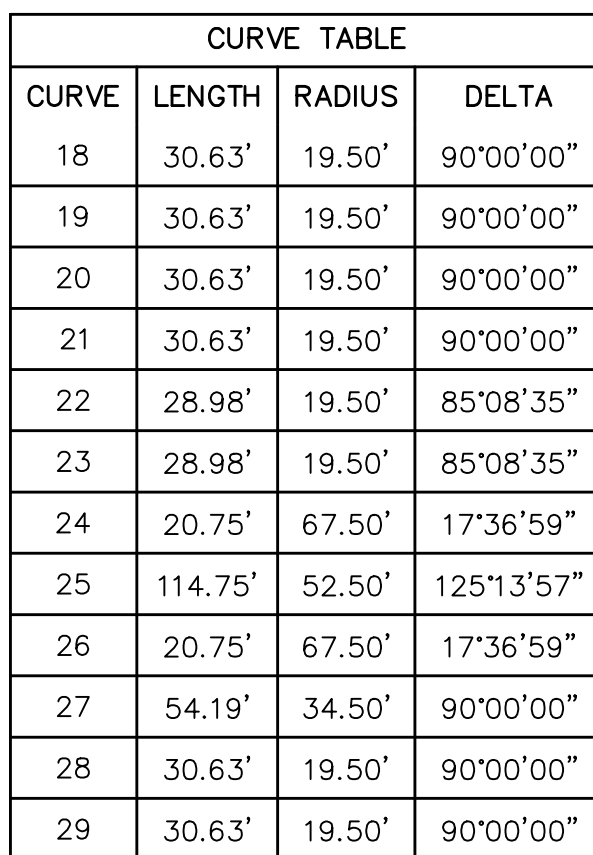
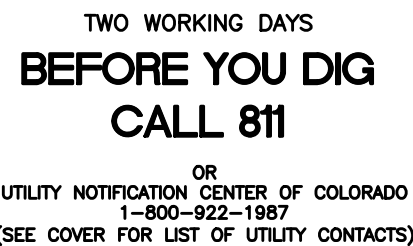
# ROLLING PEAKS DR.

URBAN LOCAL  
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



|           |                   |                 |                   |                  |                                                                                                    |                                                                                                                                                                                                                                |   |  |  |  |  |  |
|-----------|-------------------|-----------------|-------------------|------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|--|--|--|--|
|           | Scale<br>AS SHOWN | Drawn by<br>Loa | Checked by<br>TAK | Date<br>NOV 2019 | ROLLING HILLS RANCH FILING 1<br>AT MERIDIAN RANCH<br>STREET AND UTILITY PLANS<br>ROLLING PEAKS DR. | <br><b>MERIDIAN RANCH</b><br>TECH CONTRACTORS<br>11886 STAPLETON DRIVE<br>FALCON, CO 80831<br>TELEPHONE: 719.495.7444<br>FAX: 719.495.2457 | 1 |  |  |  |  |  |
|           |                   |                 |                   |                  |                                                                                                    |                                                                                                                                                                                                                                | 2 |  |  |  |  |  |
|           | 3                 |                 |                   |                  |                                                                                                    |                                                                                                                                                                                                                                |   |  |  |  |  |  |
|           | 4                 |                 |                   |                  |                                                                                                    |                                                                                                                                                                                                                                |   |  |  |  |  |  |
|           | No.               |                 |                   |                  |                                                                                                    |                                                                                                                                                                                                                                |   |  |  |  |  |  |
| Revisions |                   |                 |                   |                  |                                                                                                    |                                                                                                                                                                                                                                |   |  |  |  |  |  |
| Date      |                   |                 |                   |                  |                                                                                                    |                                                                                                                                                                                                                                |   |  |  |  |  |  |
| Init.     |                   |                 |                   |                  |                                                                                                    |                                                                                                                                                                                                                                |   |  |  |  |  |  |
| Appr.     |                   |                 |                   |                  |                                                                                                    |                                                                                                                                                                                                                                |   |  |  |  |  |  |
| Date      |                   |                 |                   |                  |                                                                                                    |                                                                                                                                                                                                                                |   |  |  |  |  |  |





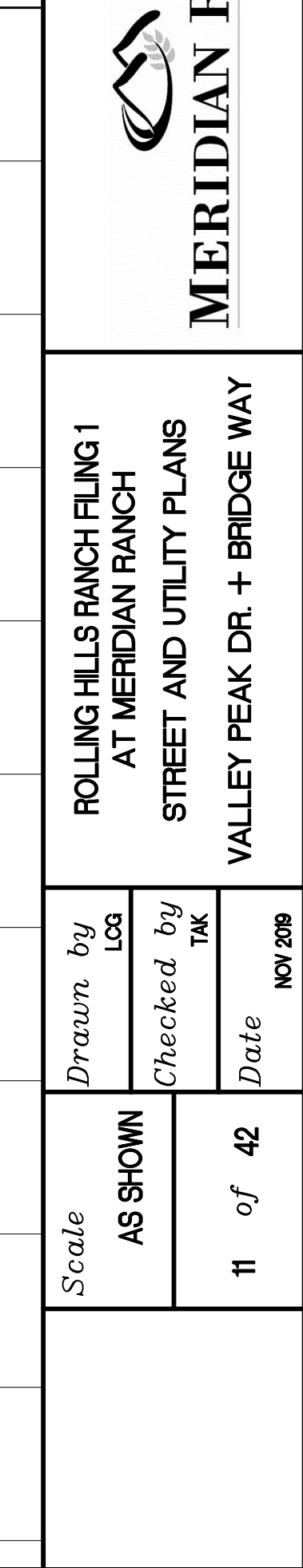
ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)

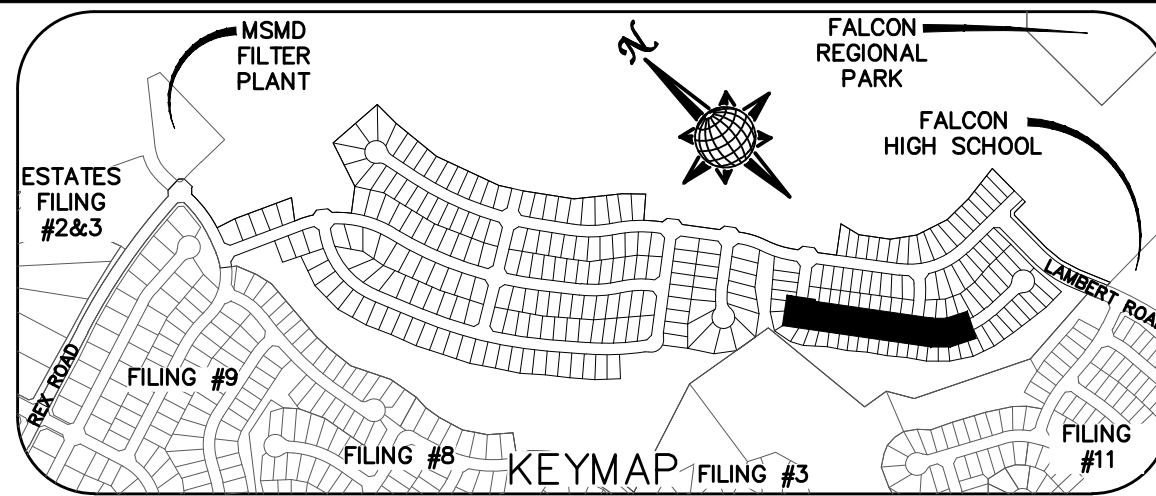
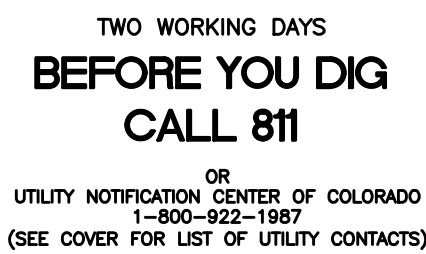


URBAN LOCAL  
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

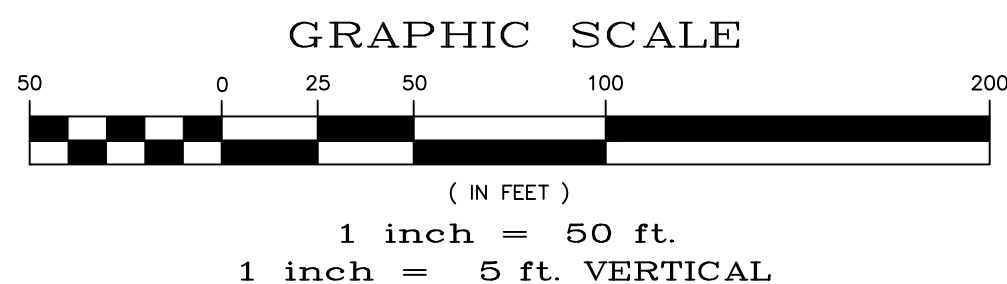


URBAN LOCAL  
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)





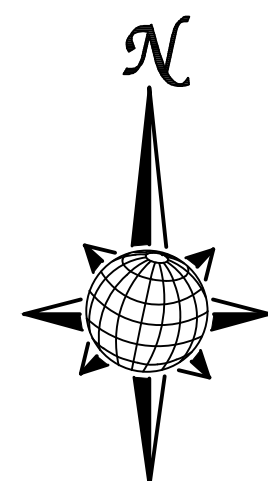
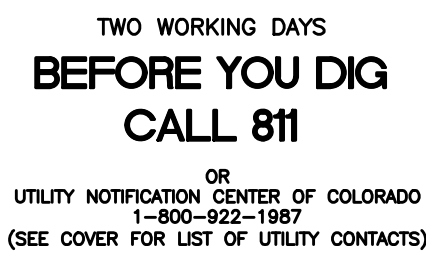
ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



URBAN LOCAL TO STA 17+81.31  
URBAN LOCAL LOW VOLUME AFTER STA 17+81.31  
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

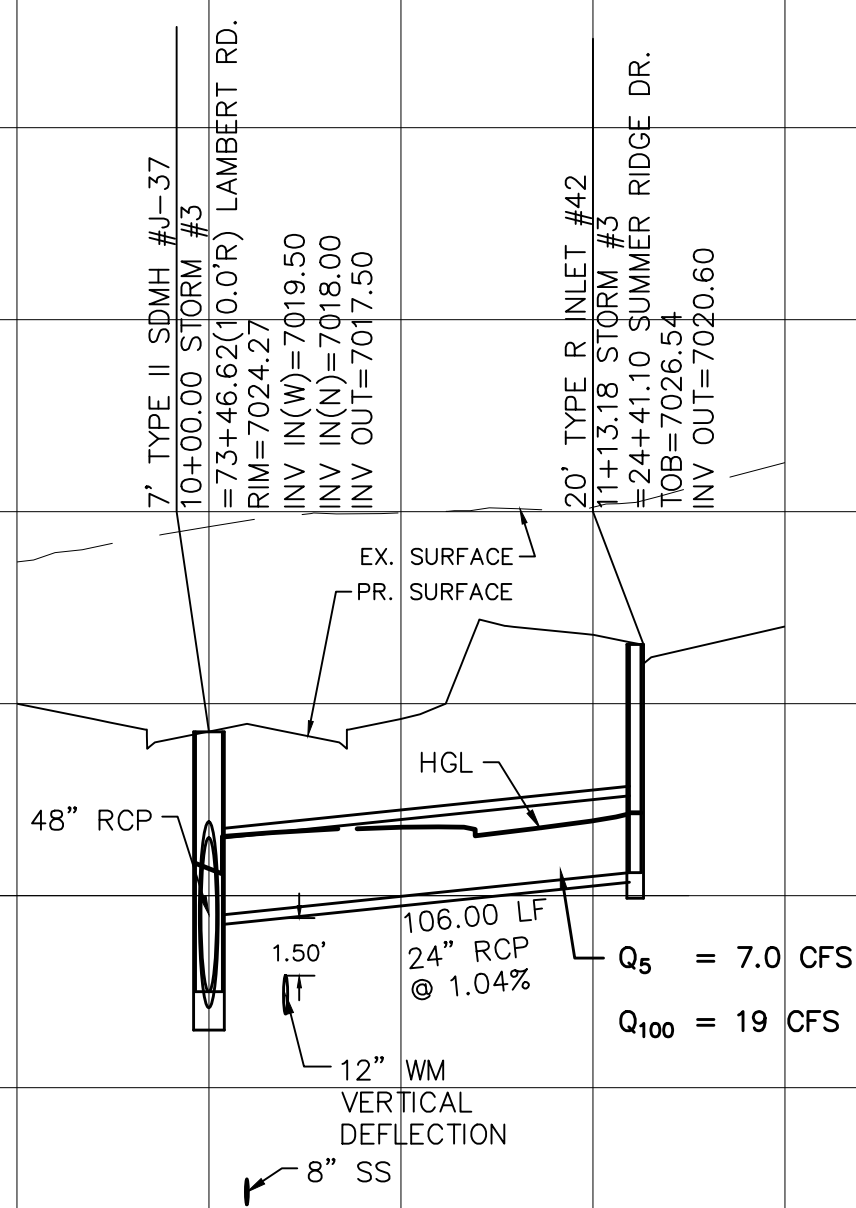
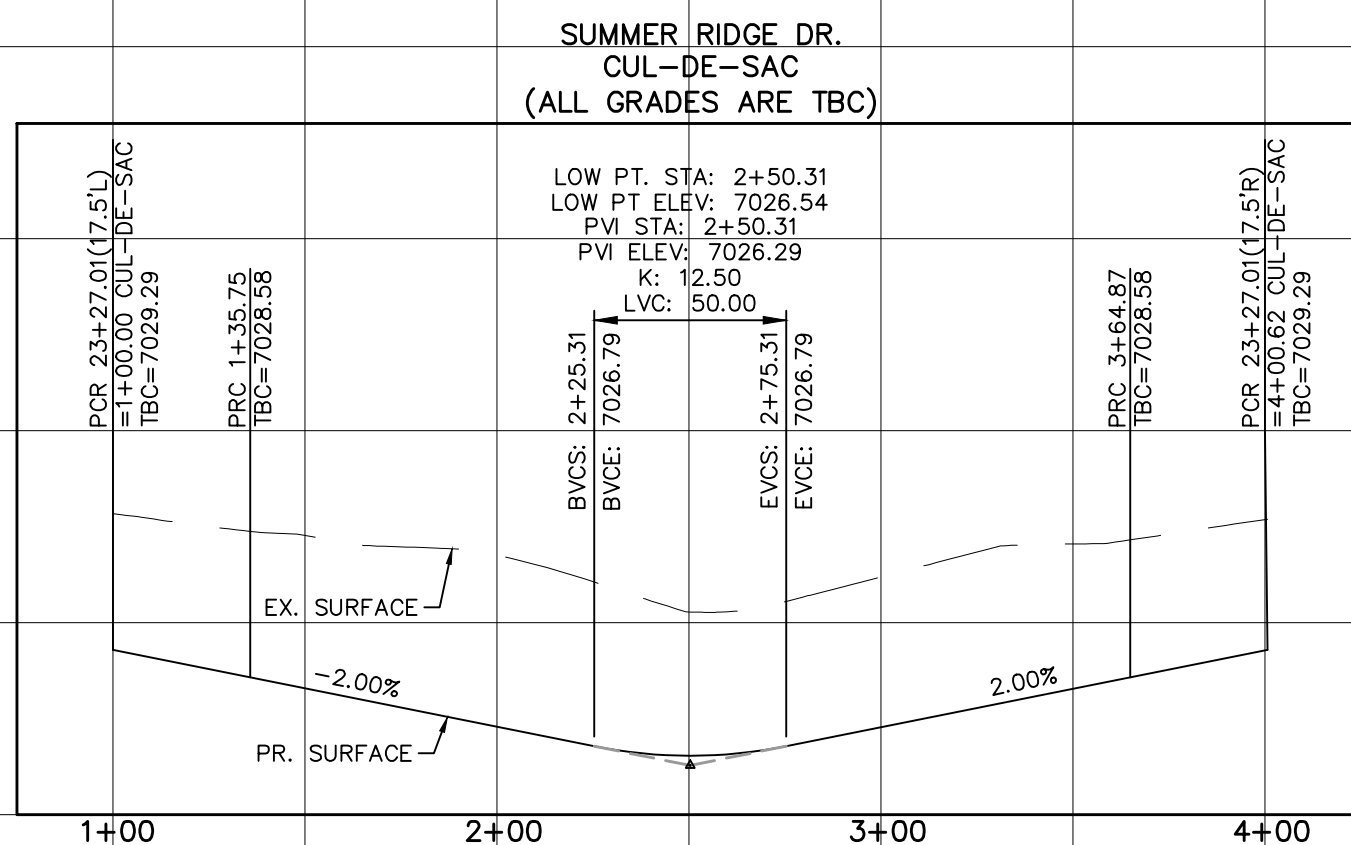
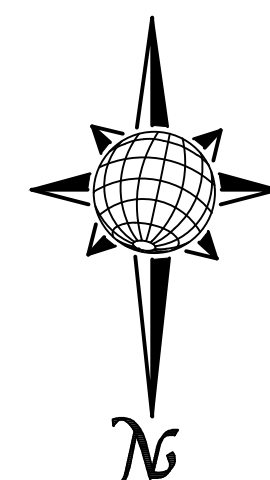
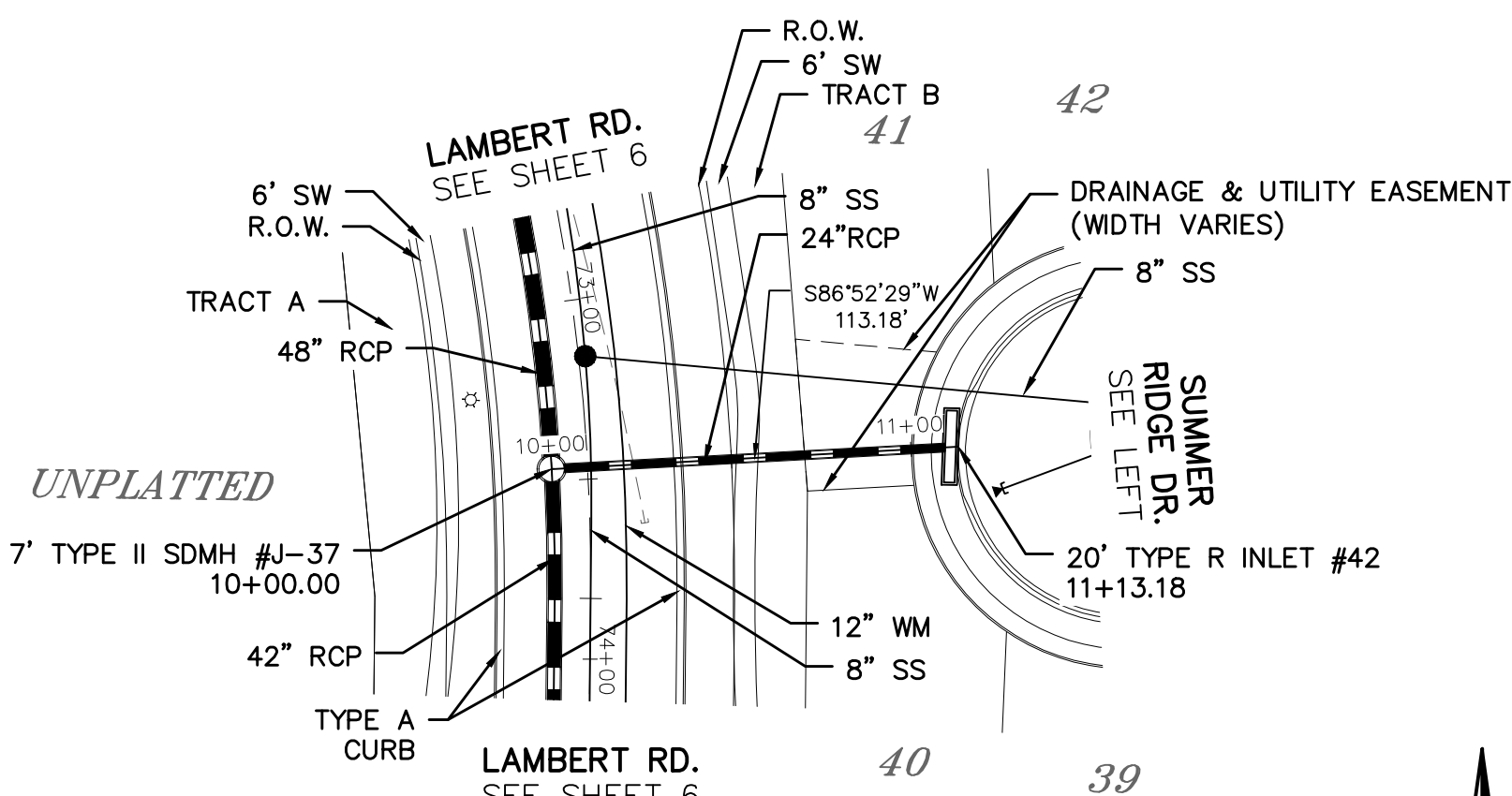






URBAN LOCAL LOW VOLUME  
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



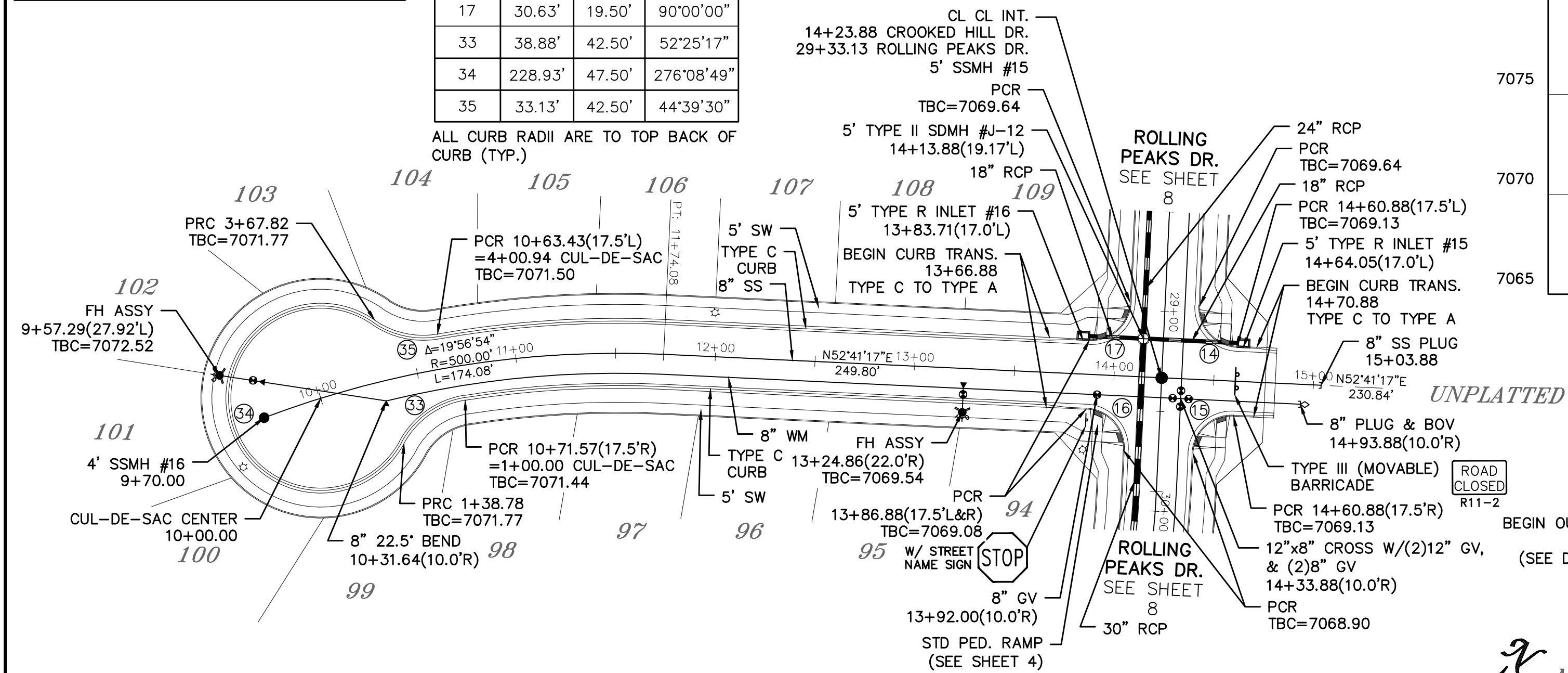
|                                                          |                                      |                                                                                                                            |                                                                                                                           |                                                                                                                              |     |           |      |       |       |      |
|----------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----|-----------|------|-------|-------|------|
| <div>Scale</div> <div>AS SHOWN</div> <div>13 of 42</div> | <div>Drawn by</div> <div>LQA</div>   | <div>ROLLING HILLS RANCH FILING 1<br/>AT MERIDIAN RANCH<br/>STREET AND UTILITY PLANS<br/>SUMMER RIDGE DR. + STORM #3</div> | <div></div> <div>MERIDIAN RANCH</div> | <div>TECH CONTRACTORS<br/>11886 STAPLETON DRIVE<br/>FALCON, CO 80831<br/>TELEPHONE: 719.495.7444<br/>FAX: 719.495.2457</div> | 1   |           |      |       |       |      |
|                                                          | <div>Checked by</div> <div>TAK</div> |                                                                                                                            |                                                                                                                           |                                                                                                                              | 2   |           |      |       |       |      |
|                                                          | <div>Date</div> <div>NOV 2019</div>  |                                                                                                                            |                                                                                                                           |                                                                                                                              | 3   |           |      |       |       |      |
|                                                          |                                      |                                                                                                                            |                                                                                                                           |                                                                                                                              | 4   |           |      |       |       |      |
|                                                          |                                      |                                                                                                                            |                                                                                                                           |                                                                                                                              | No. | Revisions | Date | Inst. | Appr. | Date |



OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

| CURVE TABLE |         |        |            |
|-------------|---------|--------|------------|
| CURVE       | LENGTH  | RADIUS | DELTA      |
| 14          | 30.63'  | 19.50' | 90°00'00"  |
| 15          | 30.63'  | 19.50' | 90°00'00"  |
| 16          | 30.63'  | 19.50' | 90°00'00"  |
| 17          | 30.63'  | 19.50' | 90°00'00"  |
| 33          | 38.88'  | 42.50' | 52°25'17"  |
| 34          | 228.93' | 47.50' | 276°08'49" |
| 35          | 33.13'  | 42.50' | 44°39'30"  |

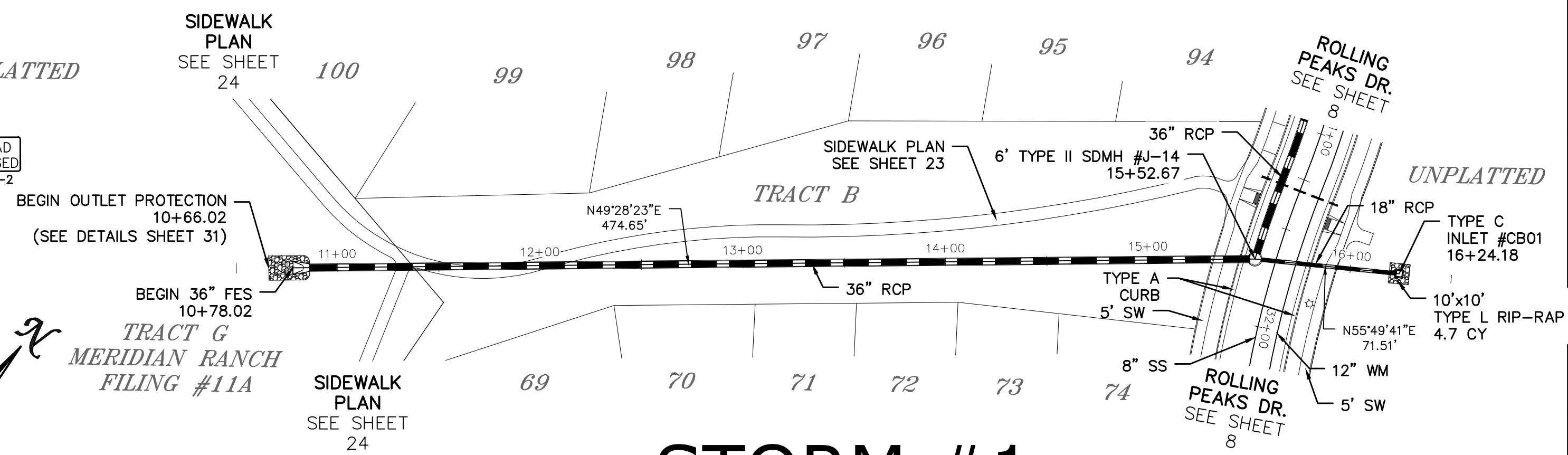
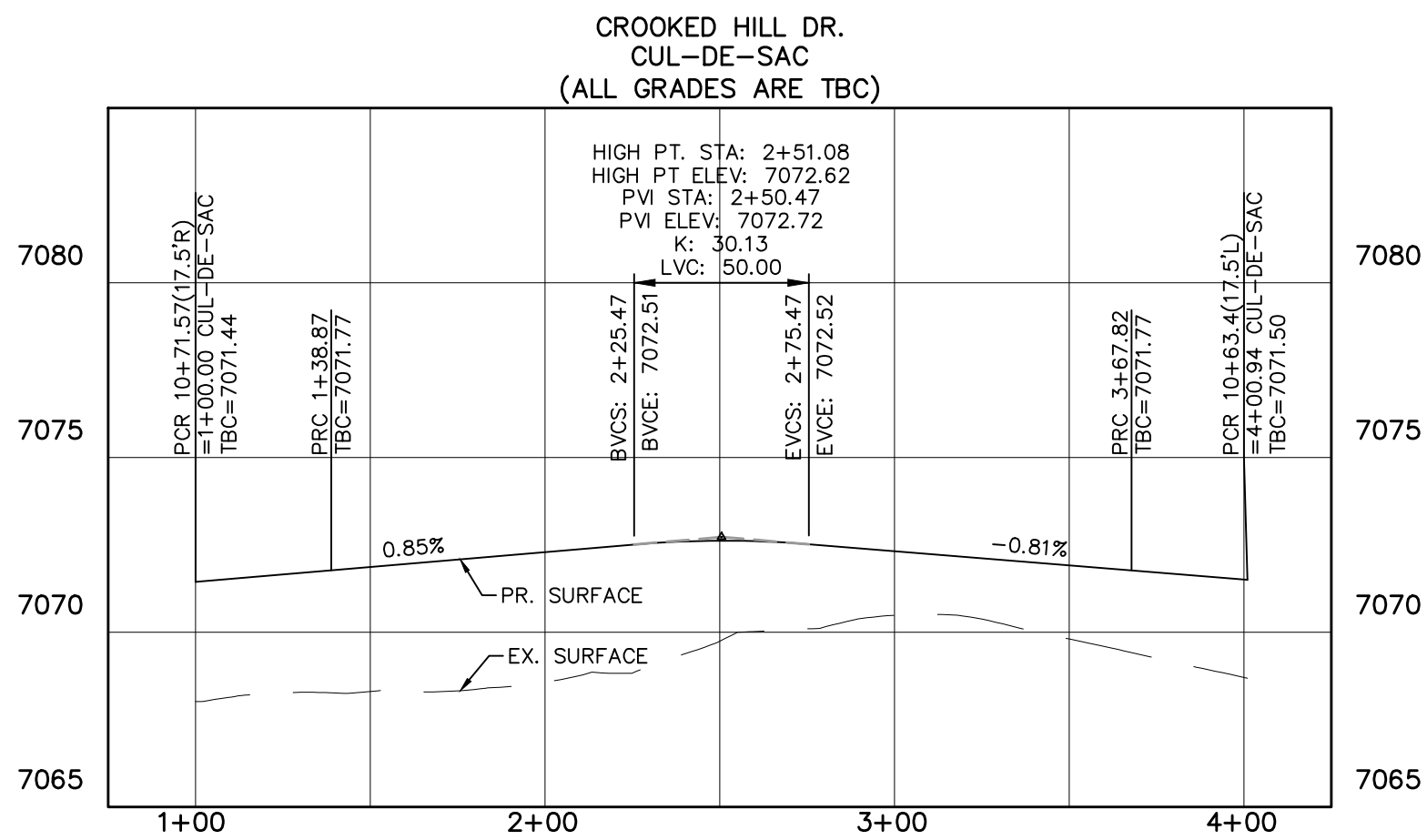
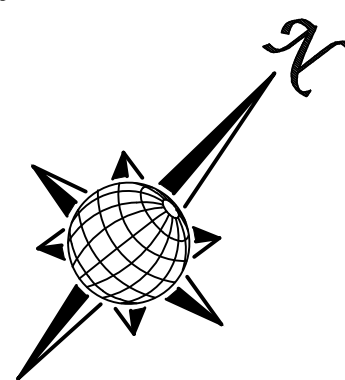
ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



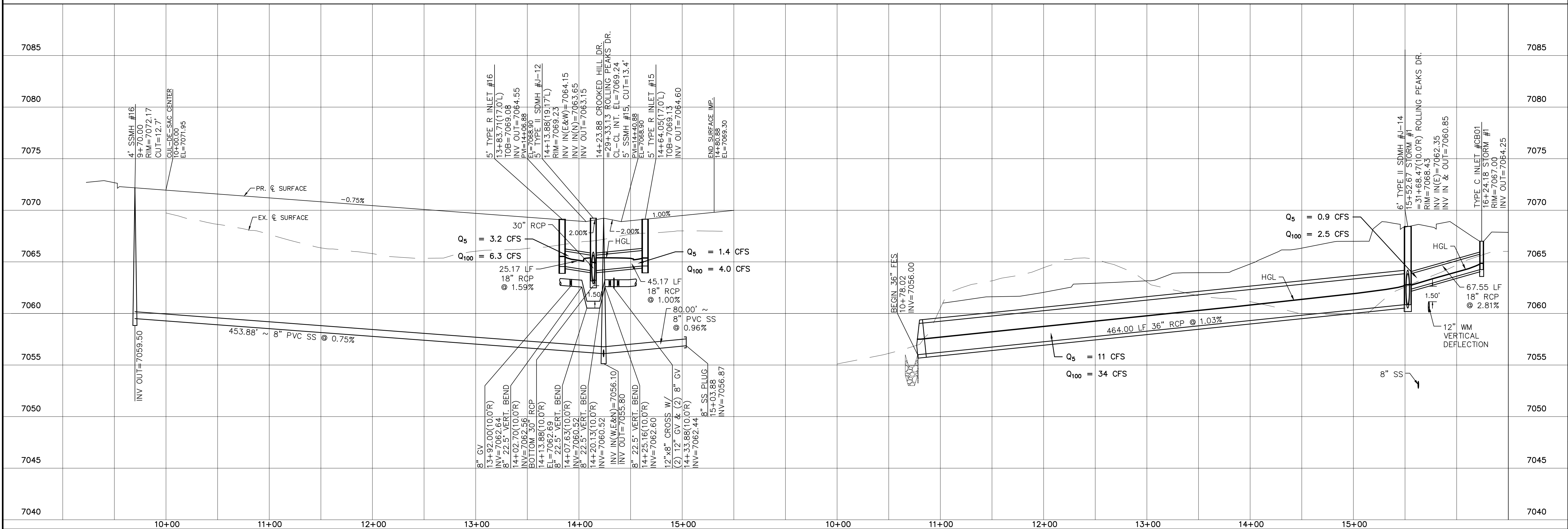
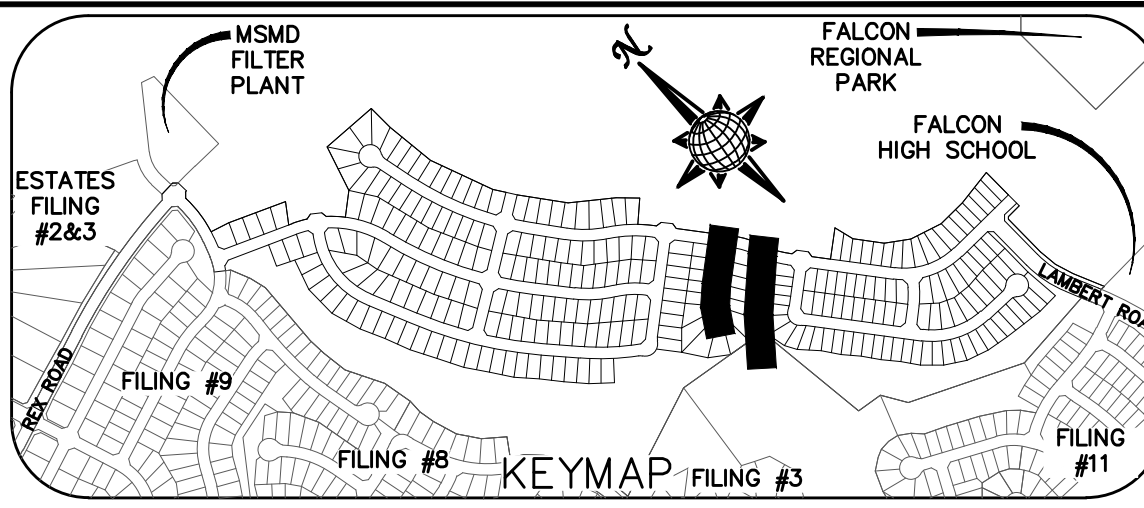
1 inch = 50 ft.  
ch = 5 ft. VERTICAL

# CROOKED HILL DR.

URBAN LOCAL LOW VOLUME  
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



# STORM #1



| Date | Init. | Appr. | Date |
|------|-------|-------|------|
| .    |       |       |      |
| .    |       |       |      |
| .    |       |       |      |
| .    |       |       |      |

|                  |  |
|------------------|--|
| 1                |  |
| 2                |  |
| 3                |  |
| 4                |  |
| <i>Revisions</i> |  |

**TECH CONTRACTORS**  
**11886 STAPLETON DRIVE**  
**FALCON, CO 80831**  
**TELEPHONE: 719.495.7444**  
**FAX: 719.495.2457**

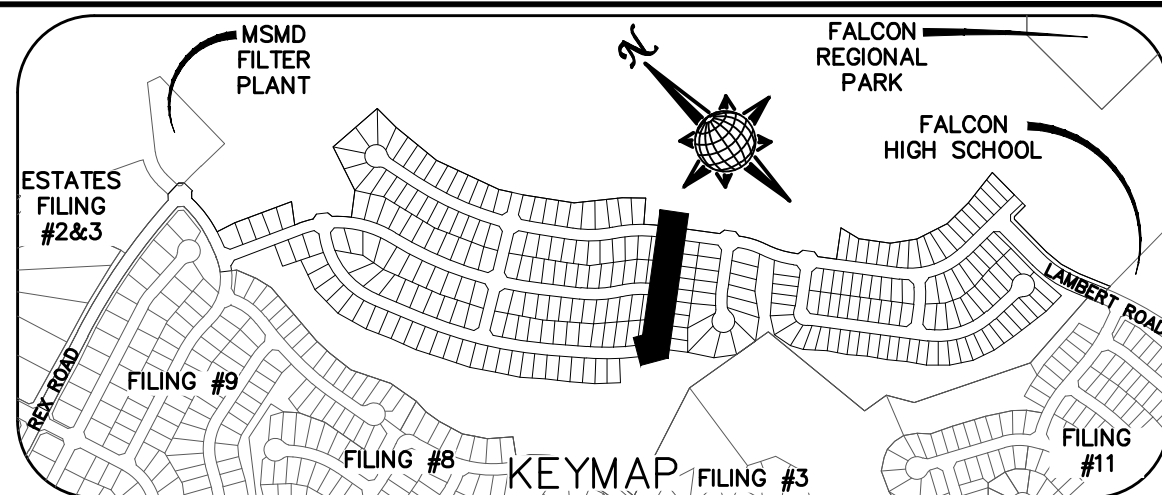
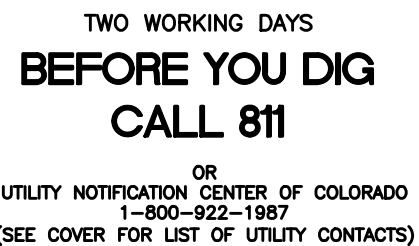


# MERIDIAN RANCH

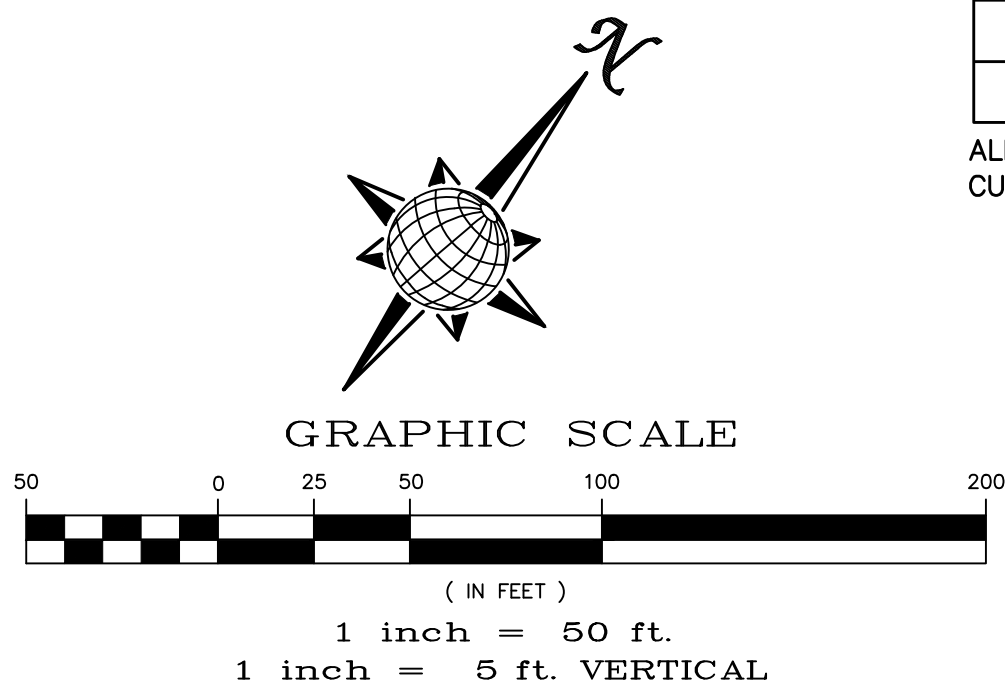
ROLLING HILLS RANCH FILING 1  
AT MERIDIAN RANCH  
STREET AND UTILITY PLANS  
CROOKED HILL DR. + STORM #1

|          |            |
|----------|------------|
| Scale    | Drawn by   |
| AS SHOWN | LCG        |
|          | Checked by |
|          | TAK        |
| 14 of 42 | Date       |
|          | NOV 2019   |

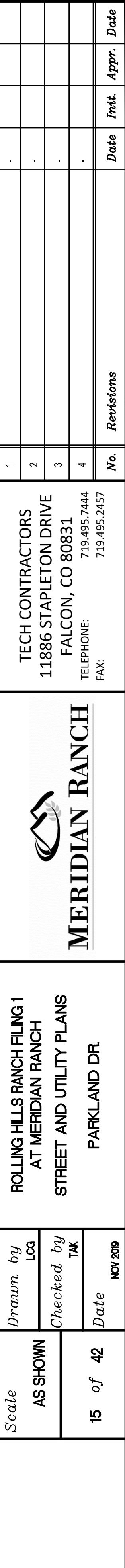


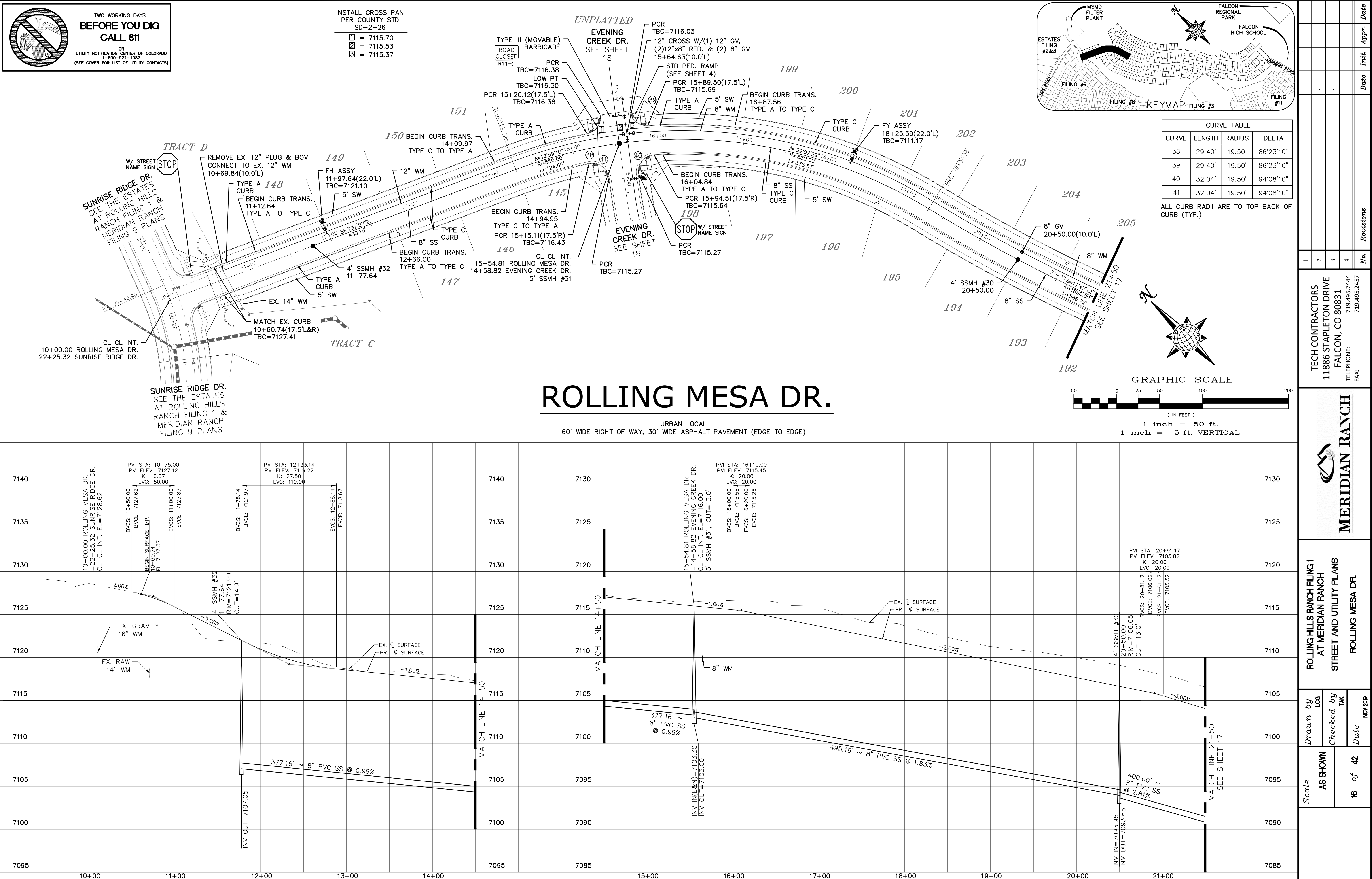


ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)

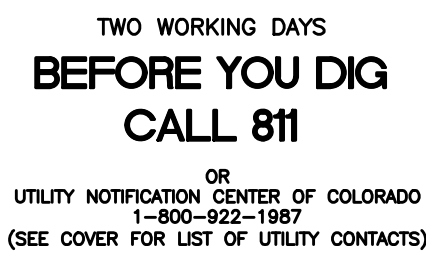


URBAN LOCAL  
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

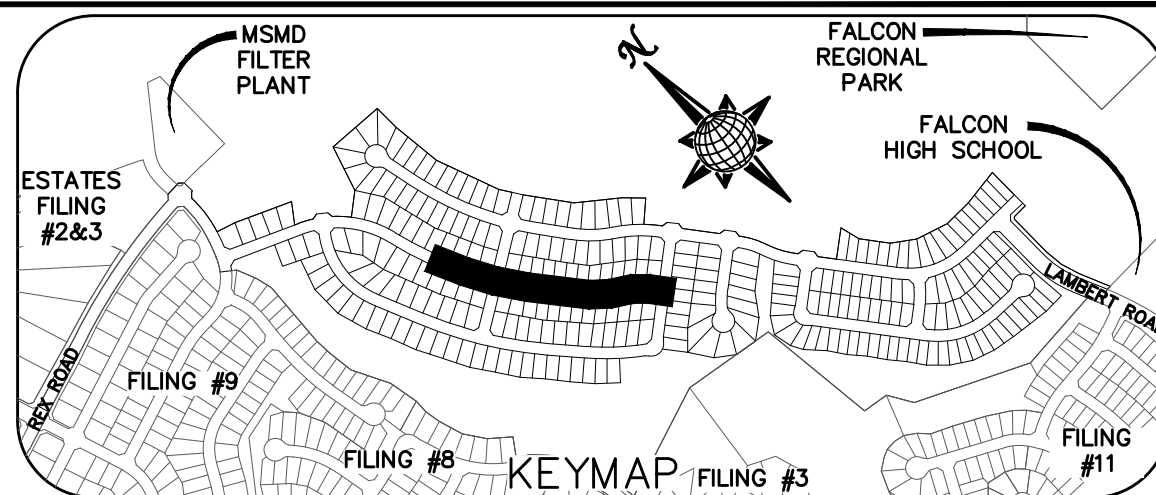








ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



| <i>Date</i> | <i>Init.</i> | <i>Appr.</i> | <i>Date</i> |
|-------------|--------------|--------------|-------------|
| "           |              |              |             |
| "           |              |              |             |
| "           |              |              |             |
| "           |              |              |             |

|                  |  |
|------------------|--|
| 1                |  |
| 2                |  |
| 3                |  |
| 4                |  |
| <i>Revisions</i> |  |

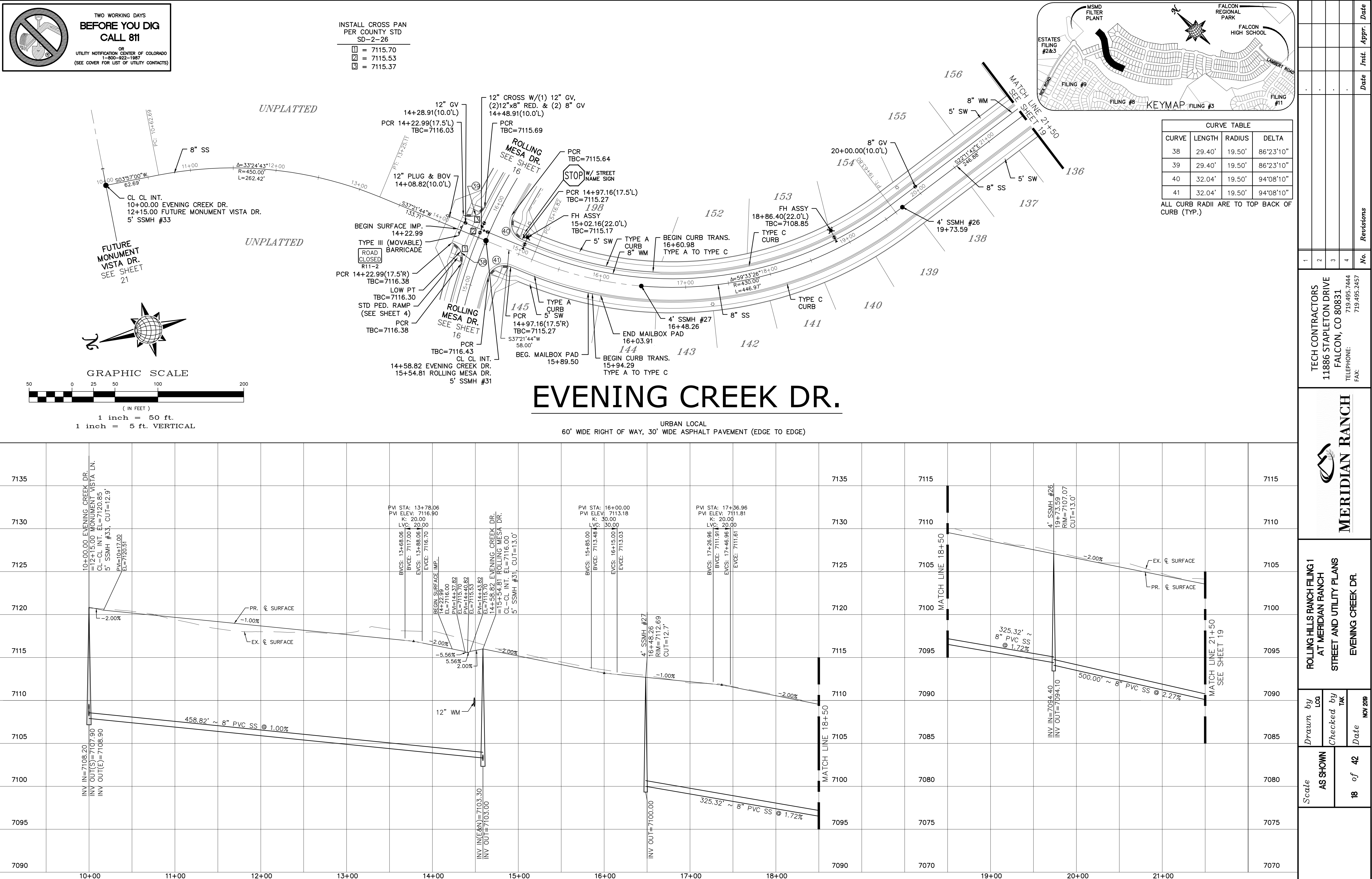
**TECH CONTRACTORS**  
11886 STAPLETON DRIVE  
FALCON, CO 80831  
TELEPHONE: 719.495.7444  
FAX: 719.495.2457

# MERIDIAN RANCH

ROLLING HILLS RANCH FILING 1  
AT MERIDIAN RANCH  
STREET AND UTILITY PLANS  
ROLLING MESA DR.

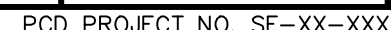
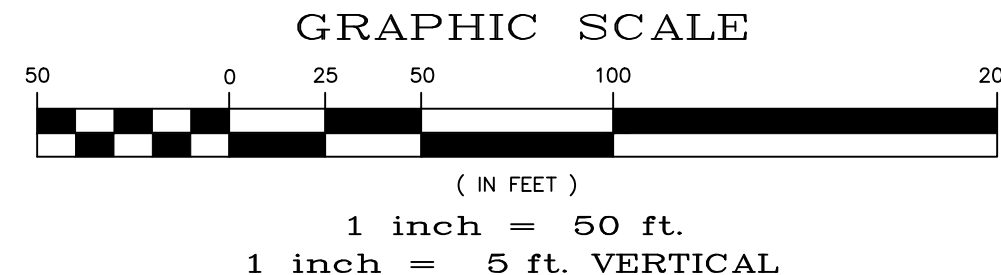
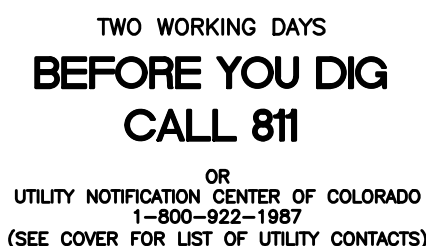
|                   |                   |
|-------------------|-------------------|
| Scale<br>AS SHOWN | Drawn by<br>LOG   |
|                   | Checked by<br>TAK |
| 17 of 42          | Date<br>NOV 2019  |





S:\architect\Rolling Hills Filing 1\DWG\Plan Sheet Improvement Plans\GRI-RH.dwg, 11/15/2019 9:49:10 AM





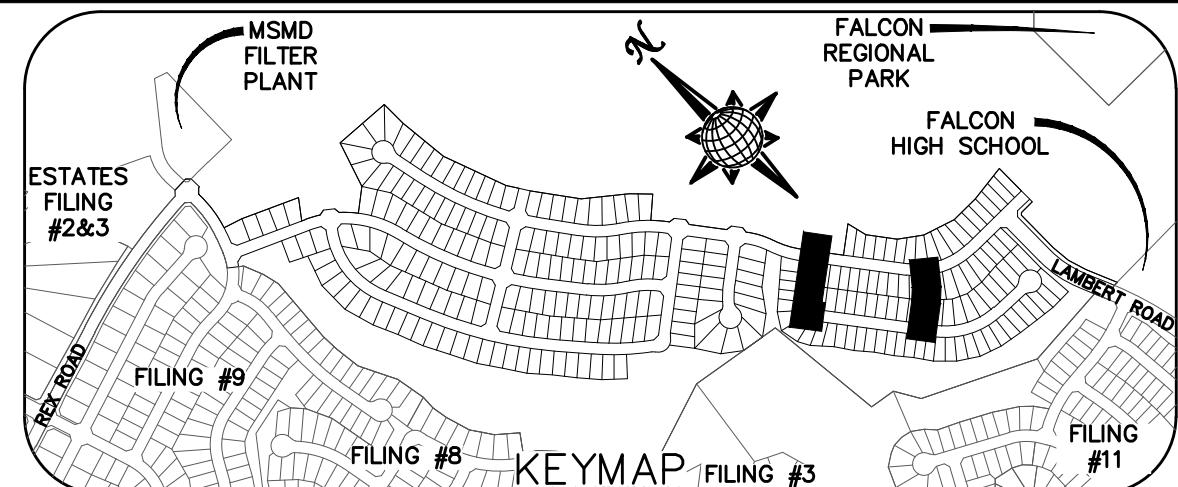
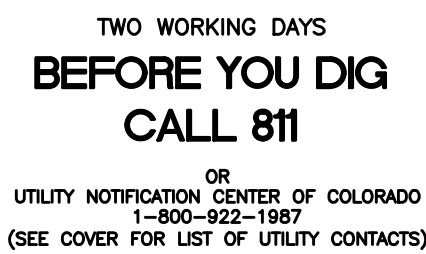
**TECH CONTRACTORS**  
11886 STAPLETON DRIVE  
FALCON, CO 80831  
TELEPHONE: 719.495.7444  
FAX: 719.495.7457



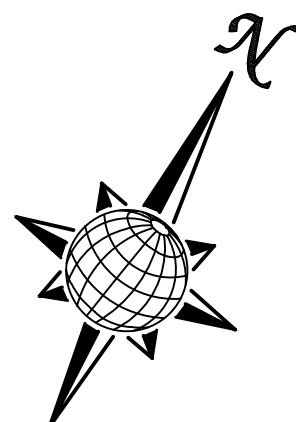
**MERIDIAN RANCH**

ROLLING HILLS RANCH FILING 1  
AT MERIDIAN RANCH  
STREET AND UTILITY PLANS  
EVENING CREEK DR.

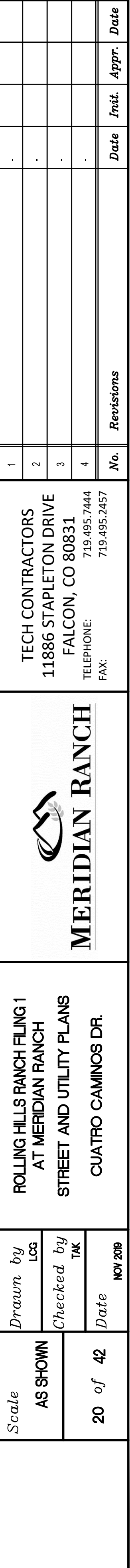
|       |          |                   |
|-------|----------|-------------------|
| Scale | AS SHOWN | Drawn by<br>LOG   |
|       | 19 of 42 | Checked by<br>TAK |
|       |          | Date              |



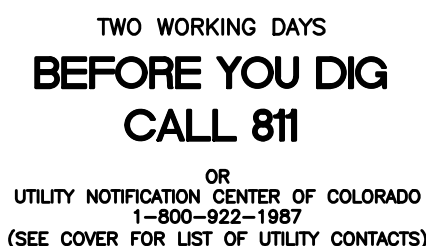
ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



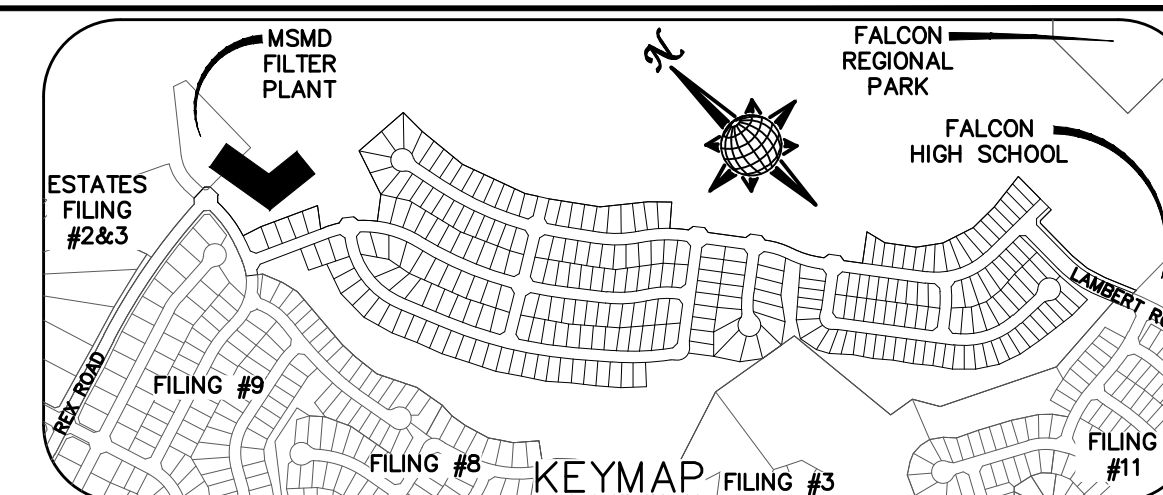
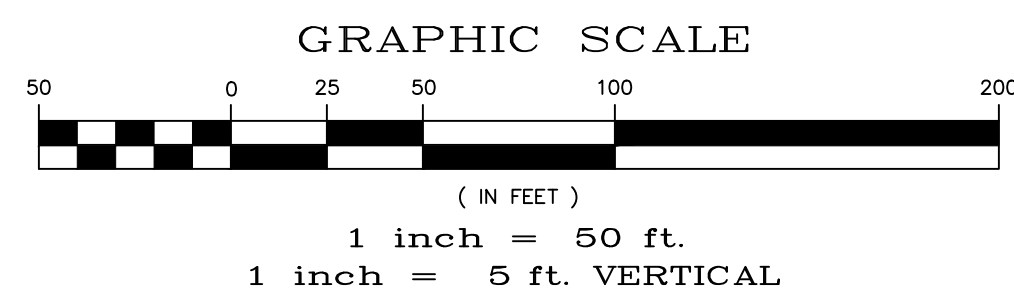
URBAN LOCAL  
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



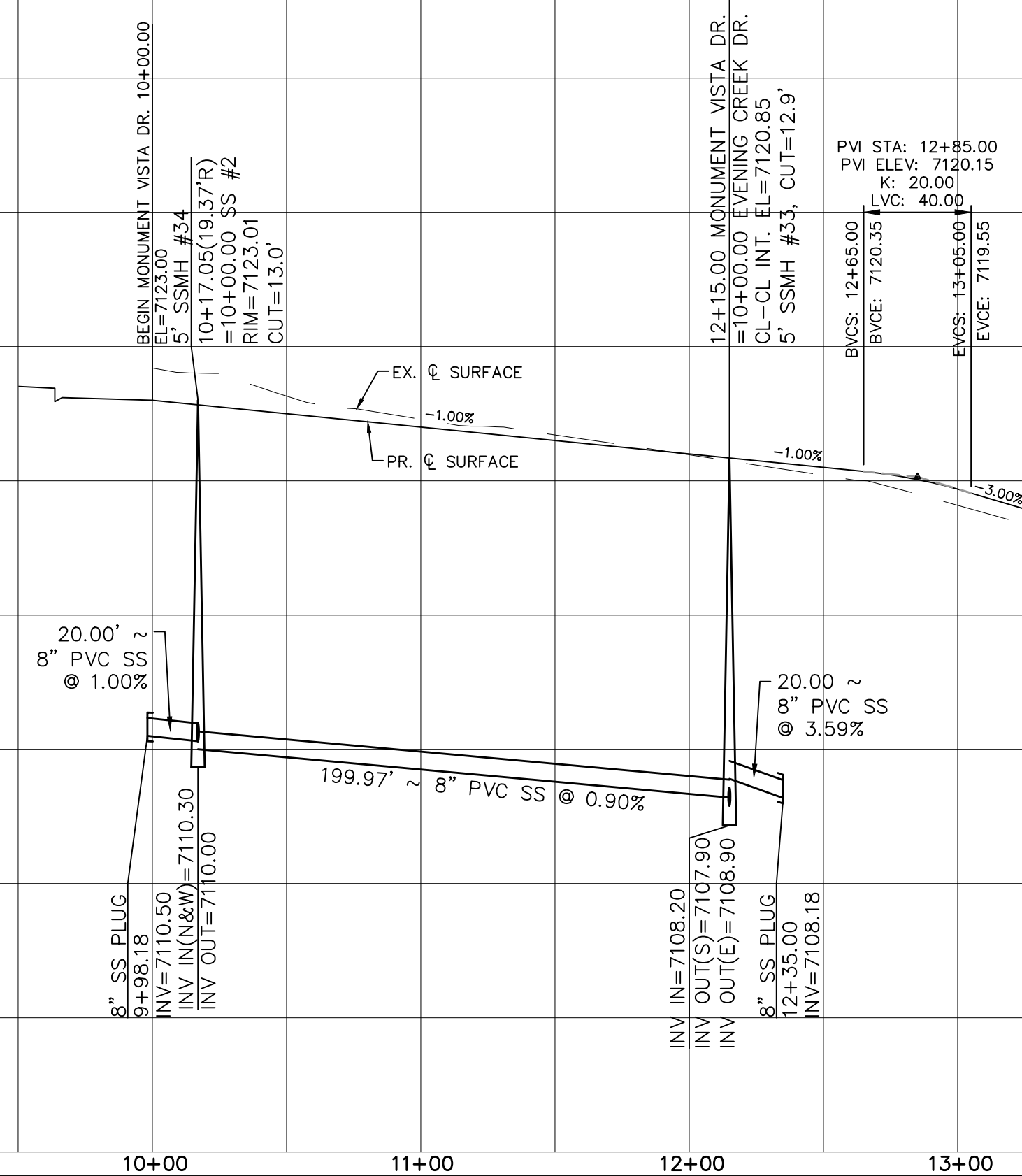
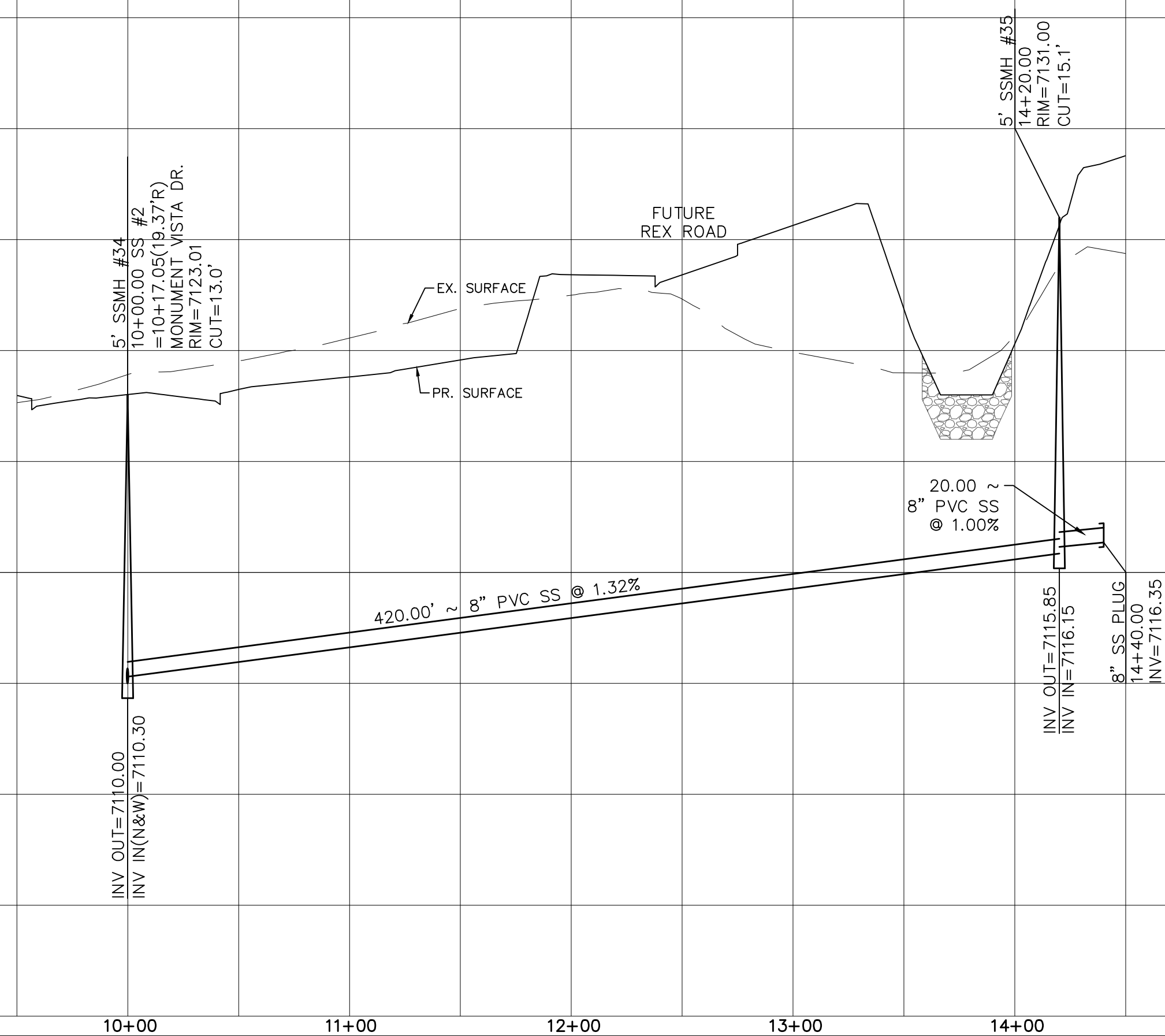




# SS #2

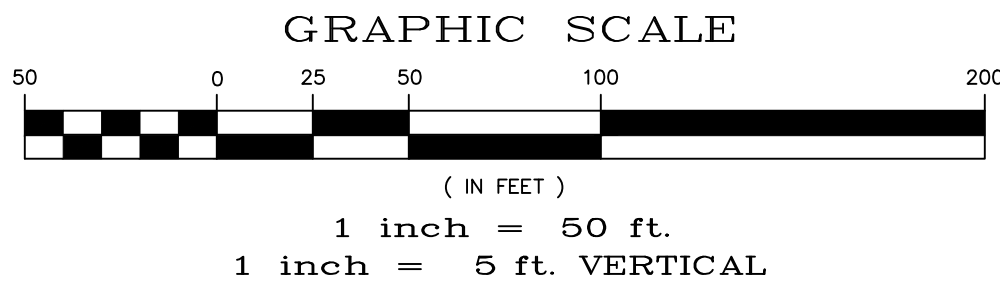
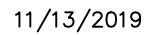


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|---------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--|-----|-----------|------|--------|
| <i>Scale</i><br><b>AS SHOWN</b> | <i>Drawn by</i><br>LGC | ROLLING HILLS RANCH FILING 1<br>AT MERIDIAN RANCH<br>STREET AND UTILITY PLANS<br>MONUMENT VISTA DR. + SS #2 |  | <br><b>MERIDIAN RANCH</b> | TECH CONTRACTORS<br>11886 STAPLETON DRIVE<br>FALCON, CO 80831<br>TELEPHONE: 719.495.7444<br>FAX: 719.495.2457 |  | 1   | -         |      |        |
|                                 |                        |                                                                                                             |  |                                                                                                                |                                                                                                               |  | 2   | -         |      |        |
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|                                 |                        |                                                                                                             |  |                                                                                                                |                                                                                                               |  | No. | Revisions | Date | Instr. |
| 21 of 42                        |                        |                                                                                                             |  |                                                                                                                |                                                                                                               |  |     |           |      |        |




A detailed keymap of the Falcon Regional Park area. The map shows a network of roads and several proposed development areas labeled as 'FILING #'. A north arrow is located in the upper center. Key landmarks include the 'MSMD FILTER PLANT' to the northwest, 'FALCON REGIONAL PARK' to the northeast, and 'FALCON HIGH SCHOOL' to the east. Specific filing areas are labeled: 'ESTATES FILING #2&3' on the far left, 'FILING #9' in the upper left, 'FILING #8' in the center, 'FILING #3' in the lower center, and 'FILING #11' on the far right. A road labeled 'HCS ROAD' runs diagonally from the bottom left towards the center. A road labeled '940' runs horizontally along the bottom right edge.

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



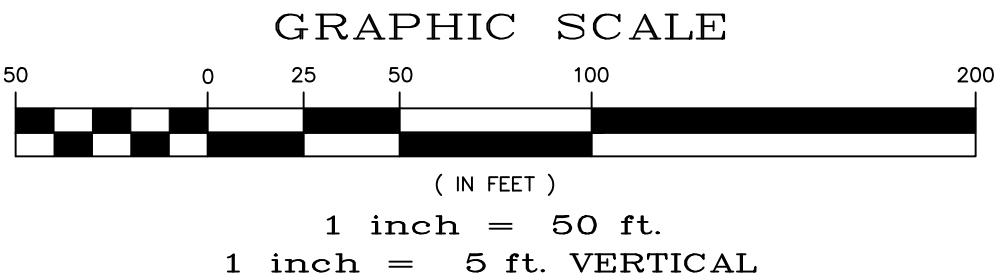
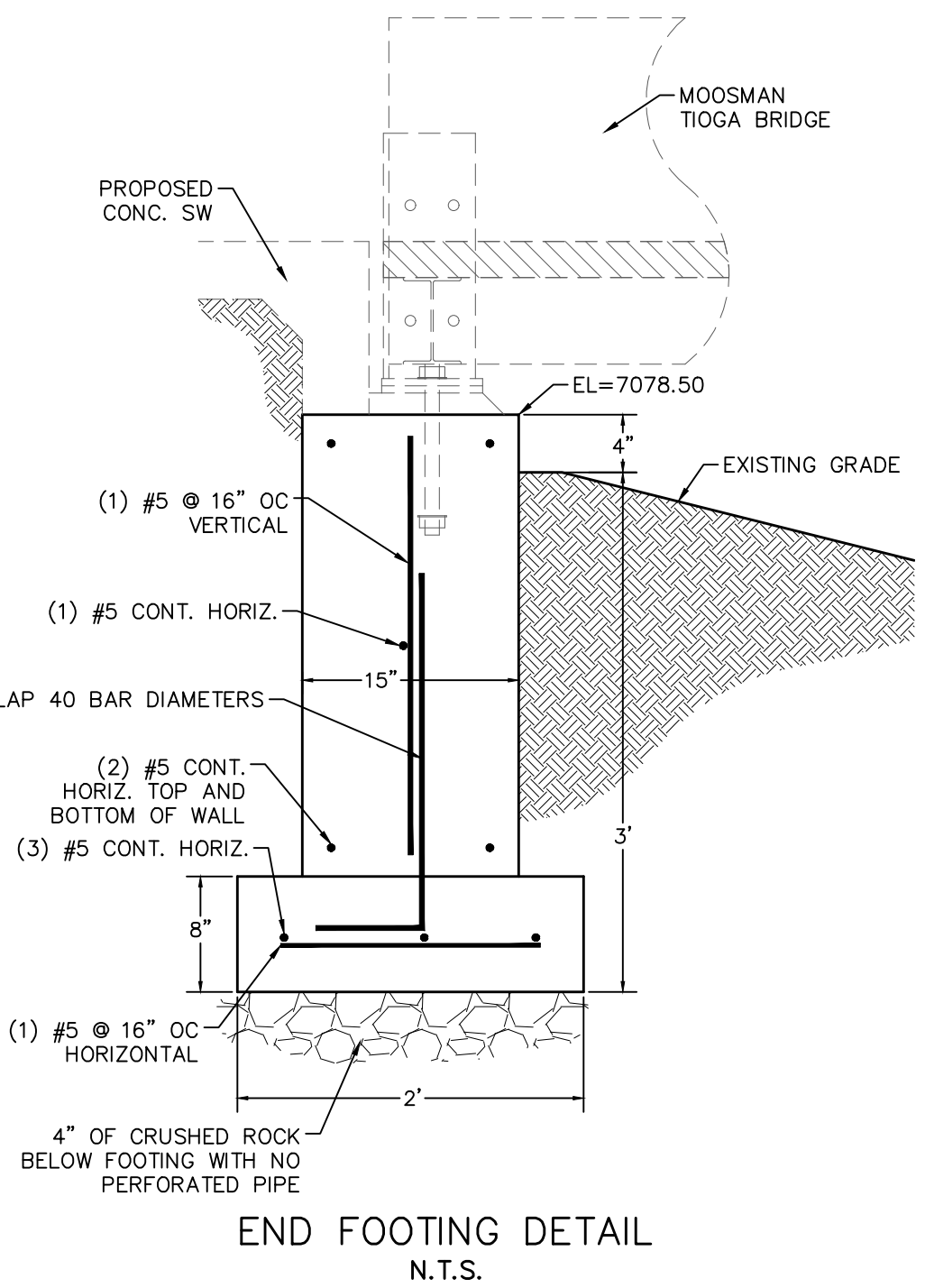
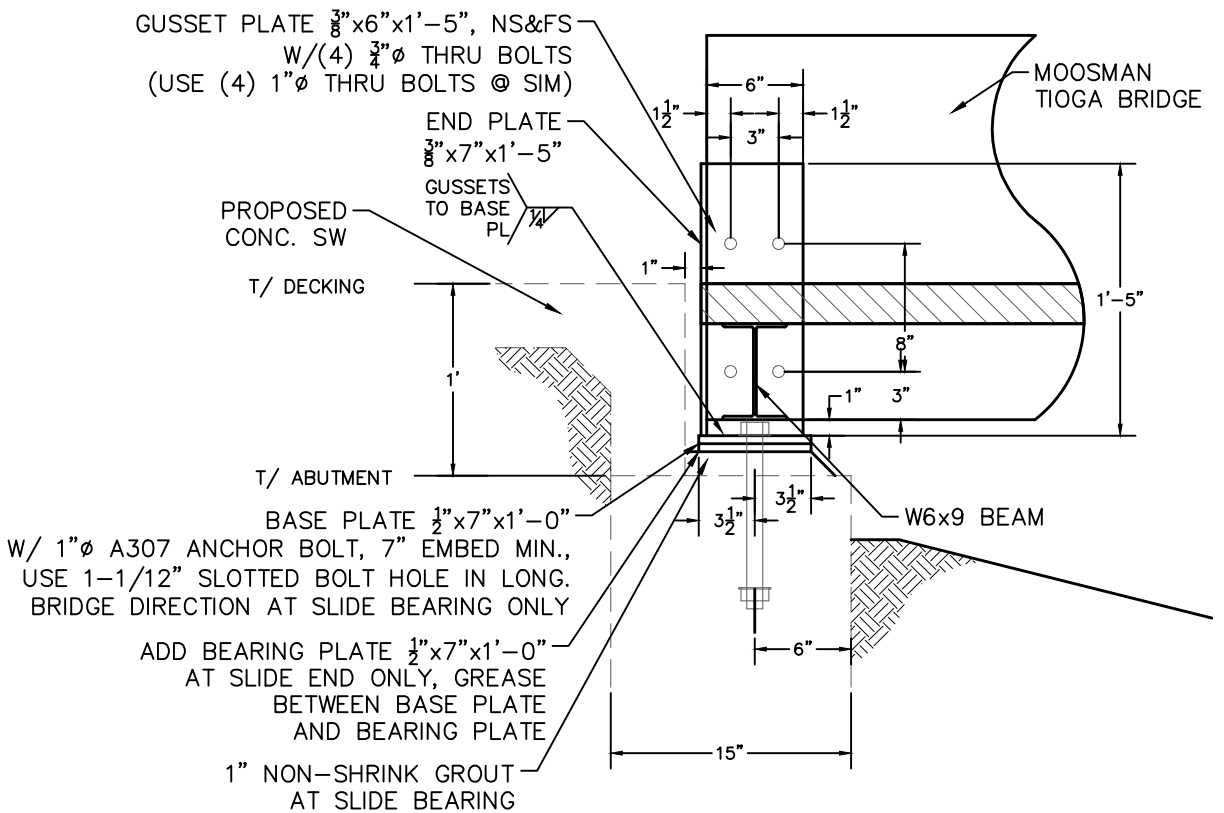
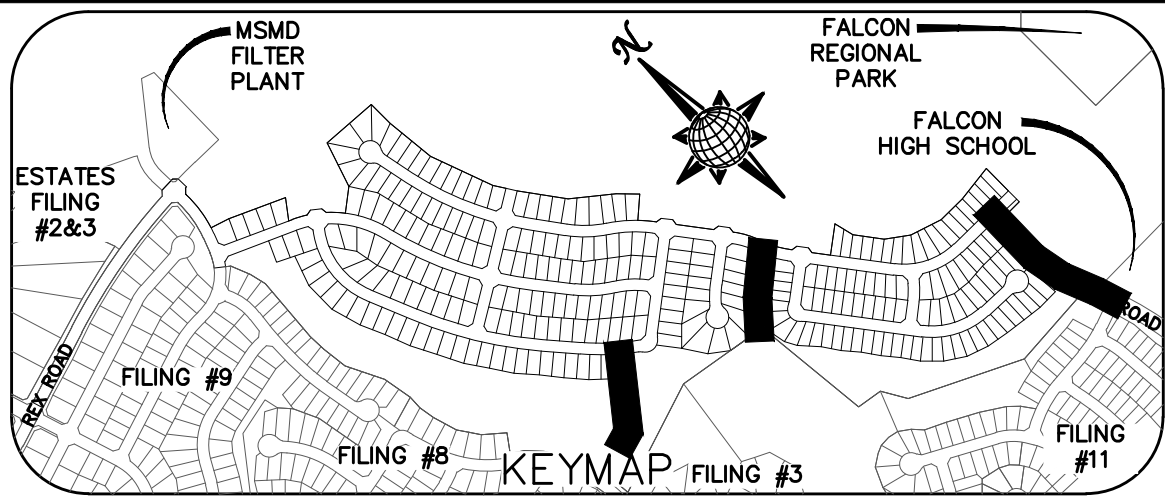


6' SIDEWALK PLAN

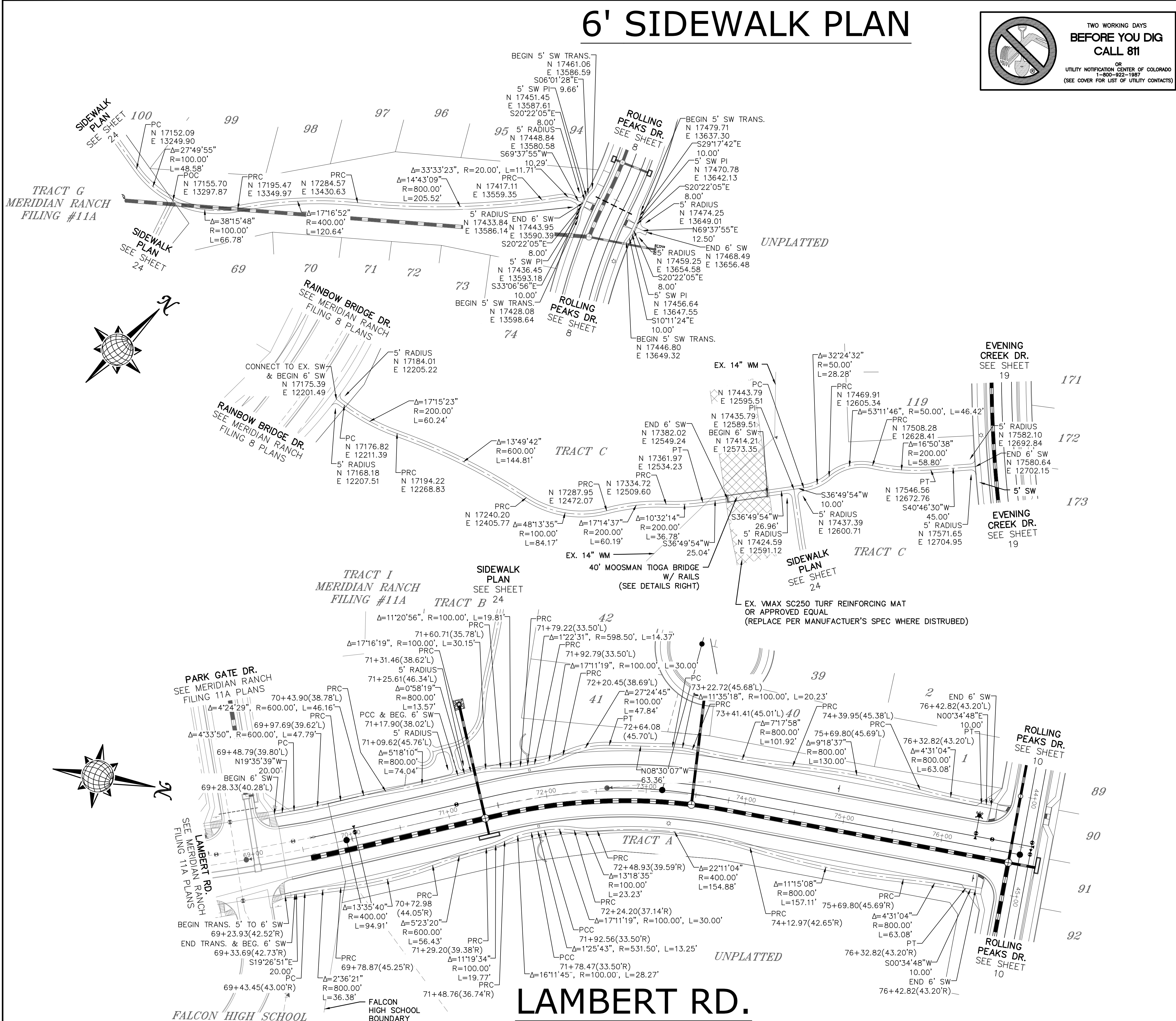


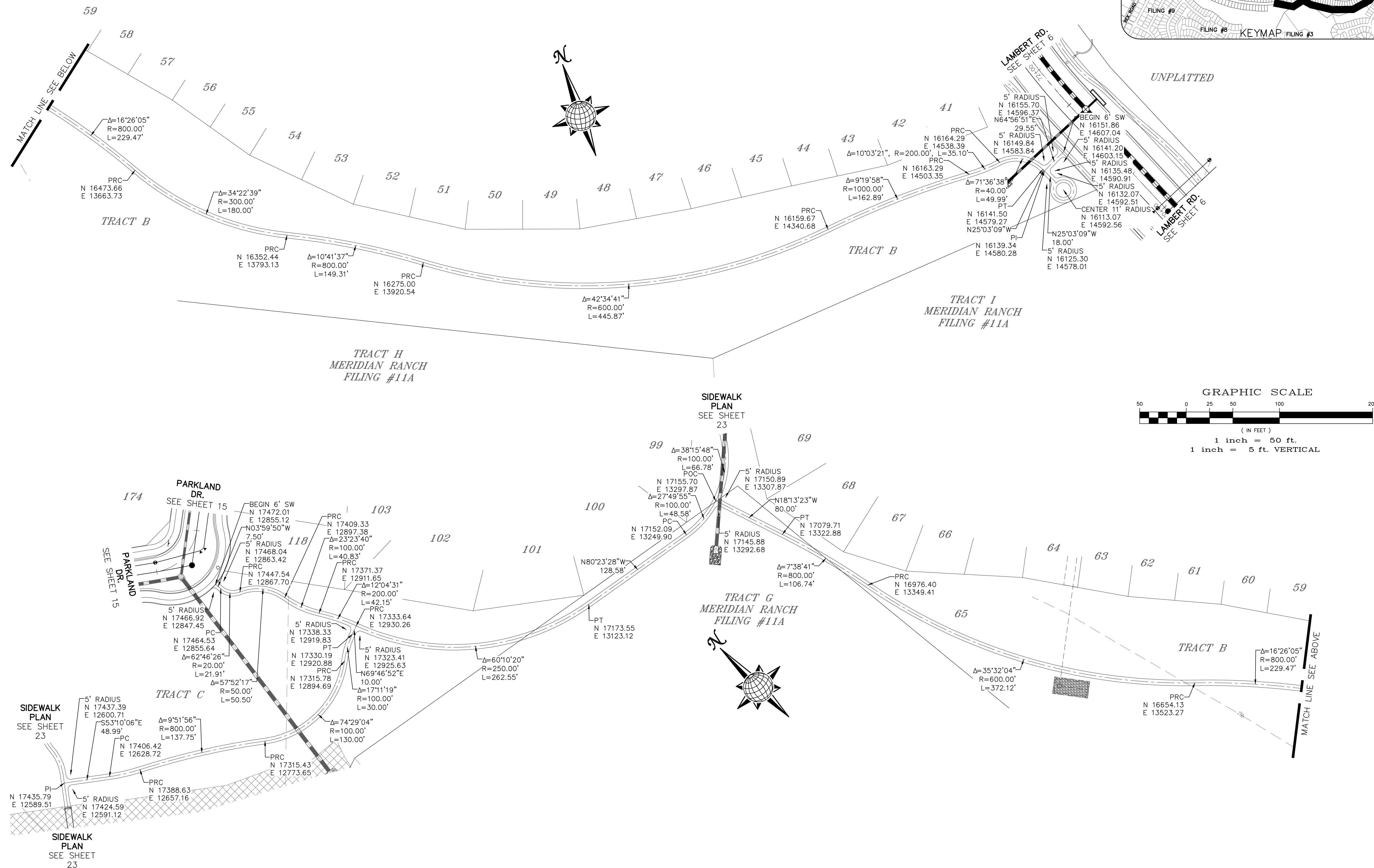
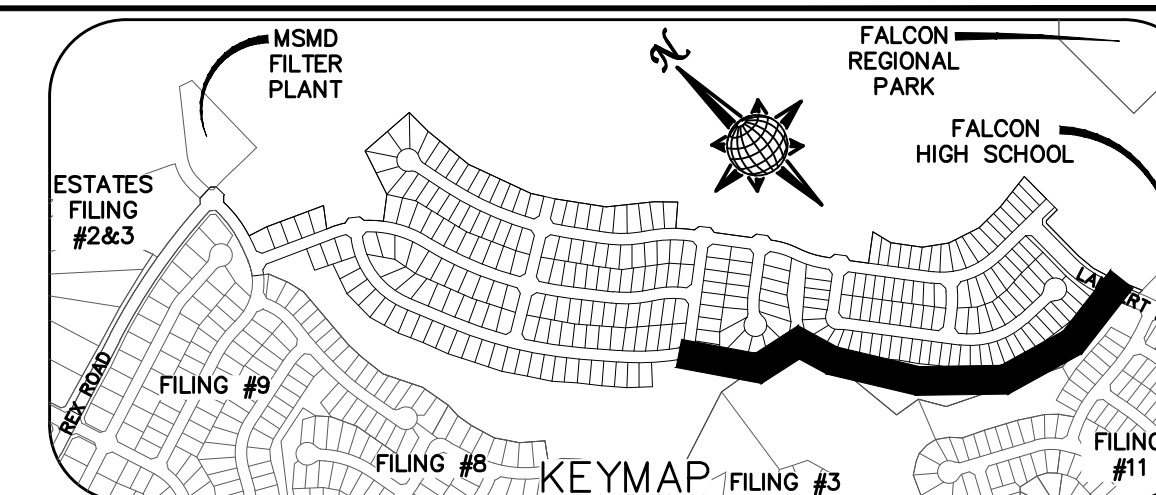
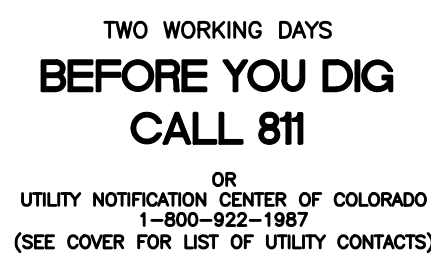
TWO WORKING DAYS  
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OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)



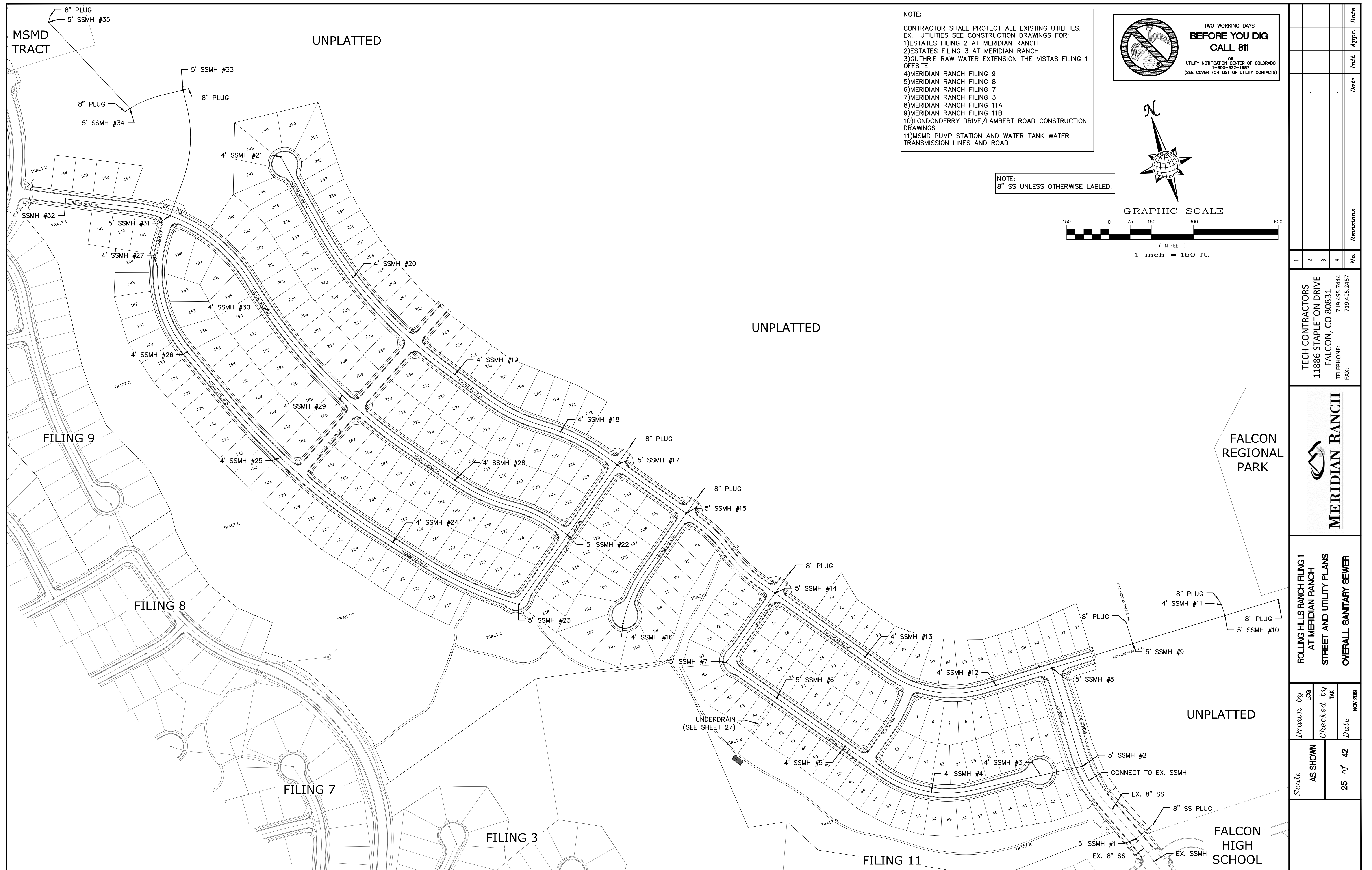
| Date                                                                                                        |          | Appr.    |     | Date       |     | Init. |          | Revisions |  | No. |  |
|-------------------------------------------------------------------------------------------------------------|----------|----------|-----|------------|-----|-------|----------|-----------|--|-----|--|
|                                                                                                             |          |          |     |            |     |       |          |           |  |     |  |
| TECH CONTRACTORS<br>11886 STAPLETON DRIVE<br>FALCON, CO 80831<br>TELEPHONE 719.495.7444<br>FAX 719.495.2457 |          |          |     |            |     |       |          |           |  |     |  |
| MERIDIAN RANCH                                                                                              |          |          |     |            |     |       |          |           |  |     |  |
| ROLLING HILLS RANCH FILING 1<br>AT MERIDIAN RANCH<br>STREET AND UTILITY PLANS<br>SIDEWALK PLAN              |          |          |     |            |     |       |          |           |  |     |  |
| Scale                                                                                                       | AS SHOWN | Drawn by | Log | Checked by | TAK | Date  | NOV 2019 | 23 of 42  |  |     |  |



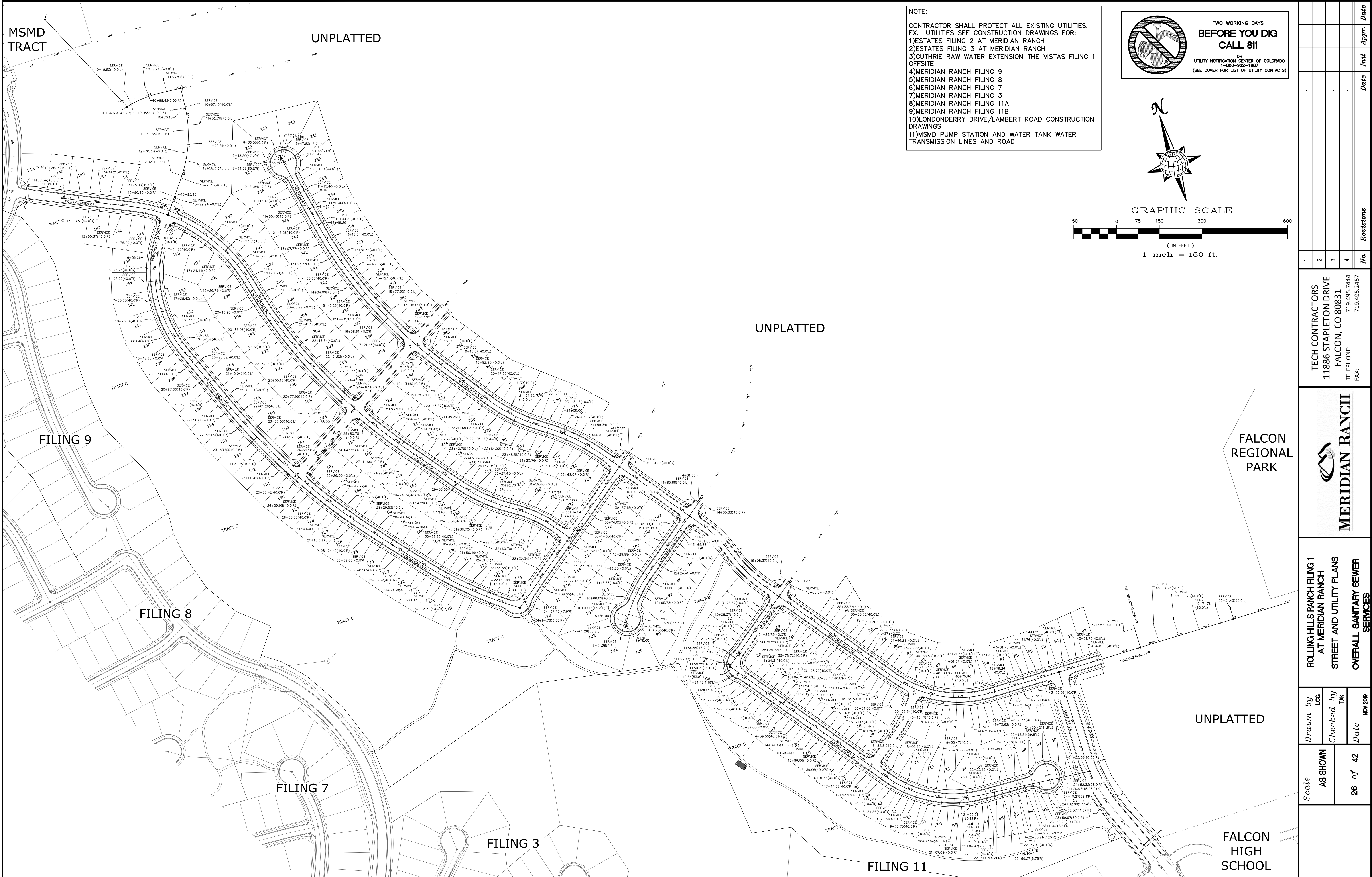


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| <div>Scale</div> <div>AS SHOWN</div> <div>24 of 42</div> | <div>Drawn by</div> <div>LCS</div>   | <div>ROLLING HILLS RANCH FLING 1<br/>AT MERIDIAN RANCH<br/>STREET AND UTILITY PLANS<br/>SIDEWALK PLAN</div> | <div></div> <div>MERIDIAN RANCH</div> | <div>TECH CONTRACTORS<br/>11886 STAPLETON DRIVE<br/>FALCON, CO 80831<br/>TELEPHONE: 719.495.7444<br/>FAX: 719.495.2457</div> | 1   |           |      |       |       |      |
|                                                          | <div>Checked by</div> <div>TAK</div> |                                                                                                             |                                                                                                                           |                                                                                                                              | 2   |           |      |       |       |      |
|                                                          | <div>Date</div> <div>NOV 2019</div>  |                                                                                                             |                                                                                                                           |                                                                                                                              | 3   |           |      |       |       |      |
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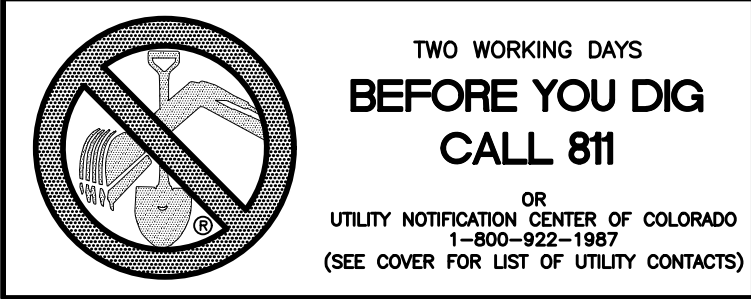








NOTE:  
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1)ESTATES FILING 2 AT MERIDIAN RANCH  
2)ESTATES FILING 3 AT MERIDIAN RANCH  
3)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFF SITE  
4)MERIDIAN RANCH FILING 9  
5)MERIDIAN RANCH FILING 8  
6)MERIDIAN RANCH FILING 7  
7)MERIDIAN RANCH FILING 3  
8)MERIDIAN RANCH FILING 11A  
9)MERIDIAN RANCH FILING 11B  
10)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS  
11)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD

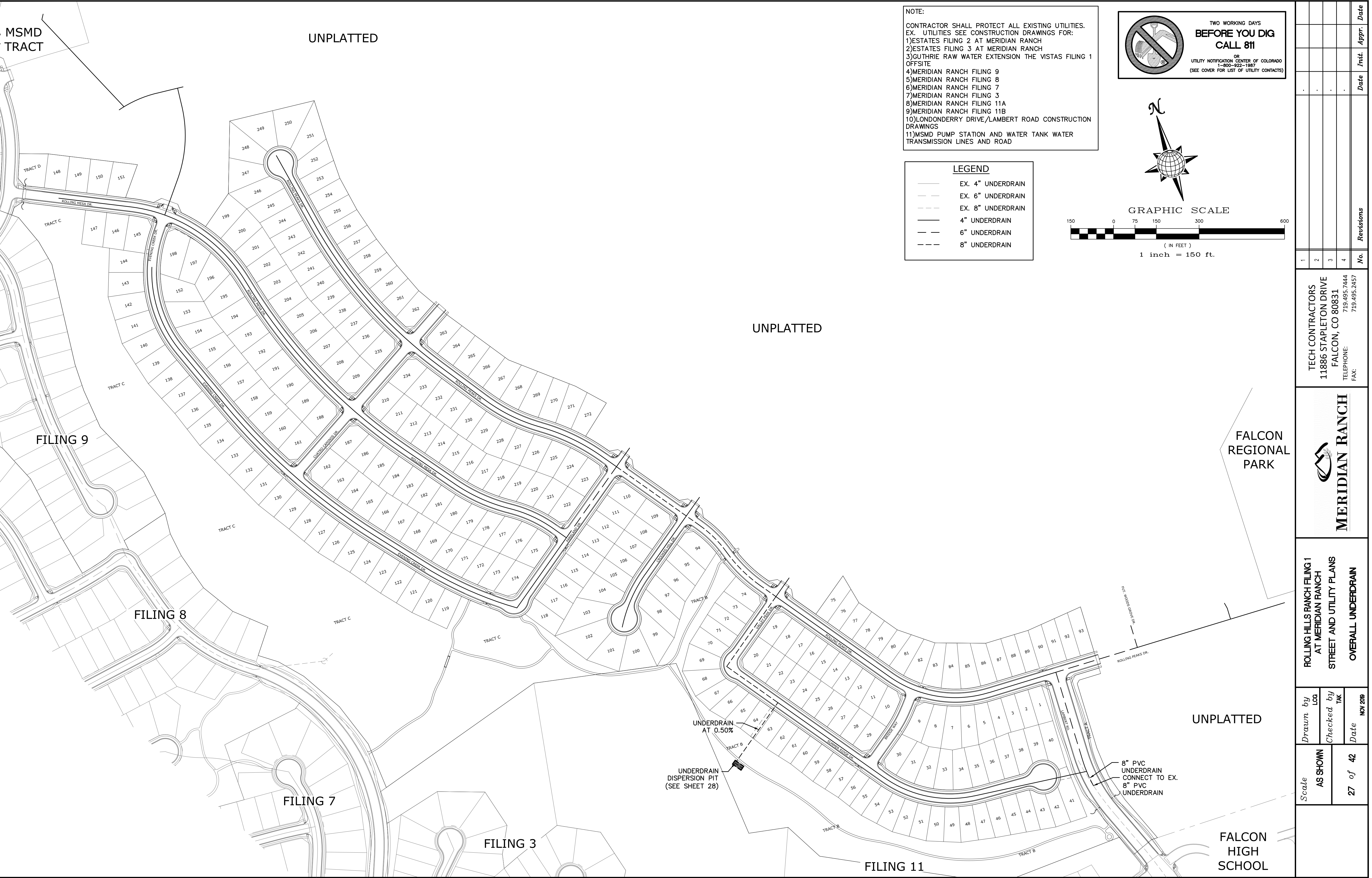


GRAPHIC SCALE

1 inch = 150 ft.


| Scale                                                                                                   | Drawn by | Log | Checked by | TAK | Date | Revisions | Init. | Appr. | Date |
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| AS SHOWN                                                                                                |          |     |            |     |      |           |       |       |      |
| 26 of 42                                                                                                |          |     |            |     |      |           |       |       |      |
| NOV 2019                                                                                                |          |     |            |     |      |           |       |       |      |
| ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL SANITARY SEWER SERVICES |          |     |            |     |      |           |       |       |      |
| TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE 719.495.7444 FAX 719.495.2457         |          |     |            |     |      |           |       |       |      |
| MERIDIAN RANCH                                                                                          |          |     |            |     |      |           |       |       |      |






NOTE:  
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EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1)ESTATES FILING 2 AT MERIDIAN RANCH  
2)ESTATES FILING 3 AT MERIDIAN RANCH  
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8)MERIDIAN RANCH FILING 11A  
9)MERIDIAN RANCH FILING 11B  
10)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS  
11)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD


| LEGEND |                   |
|--------|-------------------|
| ---    | EX. 4" UNDERDRAIN |
| - - -  | EX. 6" UNDERDRAIN |
| - - -  | EX. 8" UNDERDRAIN |
| ---    | 4" UNDERDRAIN     |
| - - -  | 6" UNDERDRAIN     |
| - - -  | 8" UNDERDRAIN     |



TWO WORKING DAYS  
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GRAPHIC SCALE



( IN FEET )  
1 inch = 150 ft.

| Revisions                                                                                                     |          | Date       | Init. | Appr.    | Date |
|---------------------------------------------------------------------------------------------------------------|----------|------------|-------|----------|------|
| 1                                                                                                             |          |            |       |          |      |
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| 3                                                                                                             |          |            |       |          |      |
| 4                                                                                                             |          |            |       |          |      |
| TECH CONTRACTORS<br>11886 STAPLETON DRIVE<br>FALCON, CO 80831<br>TELEPHONE: 719.495.7444<br>FAX: 719.495.2457 |          |            |       |          |      |
|  <b>MERIDIAN RANCH</b>   |          |            |       |          |      |
| ROLLING HILLS RANCH FILING 1<br>AT MERIDIAN RANCH<br>STREET AND UTILITY PLANS<br>OVERALL UNDERDRAIN           |          |            |       |          |      |
| Scale                                                                                                         | AS SHOWN | 27 of 42   | Date  | NOV 2019 |      |
| Drawn by                                                                                                      | LOG      | Checked by | TAK   |          |      |





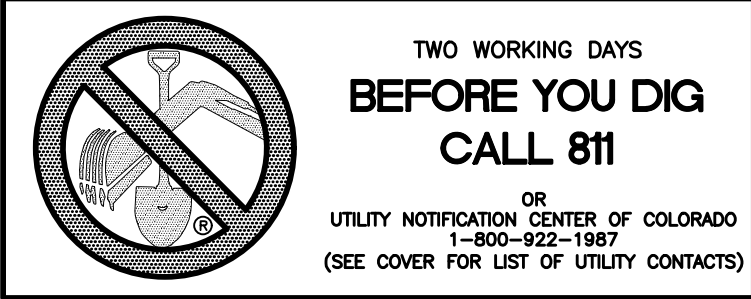


MSMD TRACT

UNPLATTED

NOTE:  
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1)ESTATES FILING 2 AT MERIDIAN RANCH  
2)ESTATES FILING 3 AT MERIDIAN RANCH  
3)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFF SITE  
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8)MERIDIAN RANCH FILING 11A  
9)MERIDIAN RANCH FILING 11B  
10)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS  
11)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD

NOTE:  
8" WM UNLESS OTHERWISE LABELED.



GRAPHIC SCALE  
150 0 75 150 300 600  
( IN FEET )  
1 inch = 150 ft.

|                             |
|-----------------------------|
| RESIDENTIAL HOME            |
| 4,800 SQ. FT. (MAX)         |
| VB CONSTRUCTION             |
| REQ'D FIRE FLOW: 1750 GPM   |
| HYDRANT SPACING: 500' (MAX) |
| HOSE LAY DIST.: 250' (MAX)  |
| NON-SPRINKLER               |

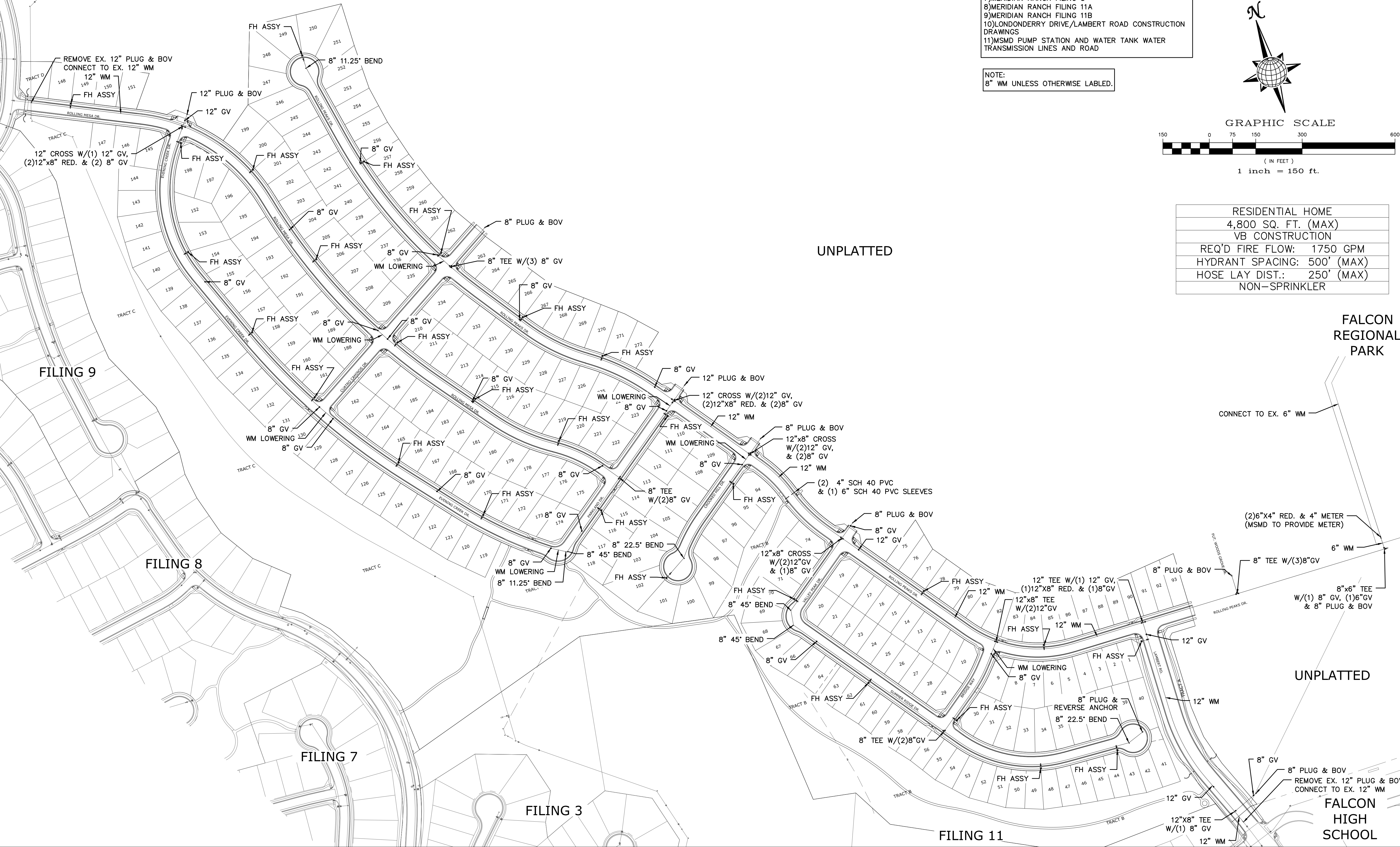
| No. | Revisions | Date | Init. | Appr. | Date |
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| 1   |           |      |       |       |      |
| 2   |           |      |       |       |      |
| 3   |           |      |       |       |      |
| 4   |           |      |       |       |      |

TECH CONTRACTORS  
11886 STAPLETON DRIVE  
FALCON, CO 80831  
TELEPHONE: 719.495.7444  
FAX: 719.495.2457



ROLLING HILLS RANCH FILING 1  
AT MERIDIAN RANCH  
STREET AND UTILITY PLANS  
OVERALL WATER

|          |          |            |     |      |          |
|----------|----------|------------|-----|------|----------|
| Drawn by | Log      | Checked by | TAK | Date | NOV 2019 |
| Scale    | AS SHOWN | 29         | of  | 42   |          |





UNPLATTED

FILING 9

FILING 8

FILING 7

FILING 3

UNPLATTED

FILING 11

UNPLATTED

FALCON  
HIGH  
SCHOOL

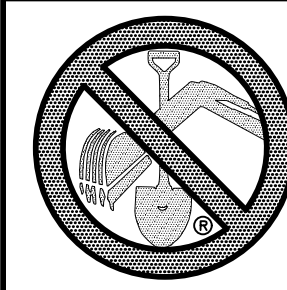
**NOTE:**

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:

- 1)ESTATES FILING 2 AT MERIDIAN RANCH
- 2)ESTATES FILING 3 AT MERIDIAN RANCH
- 3)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE
- 4)MERIDIAN RANCH FILING 9
- 5)MERIDIAN RANCH FILING 8
- 6)MERIDIAN RANCH FILING 7
- 7)MERIDIAN RANCH FILING 3
- 8)MERIDIAN RANCH FILING 11A
- 9)MERIDIAN RANCH FILING 11B
- 10)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
- 11)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD

**NOTE**

3/4" WATER SERVICE UNLESS OTHERWISE LABELED.



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GRAPHIC SCALE



( IN FEET )

$$1 \text{ inch} = 150 \text{ ft.}$$

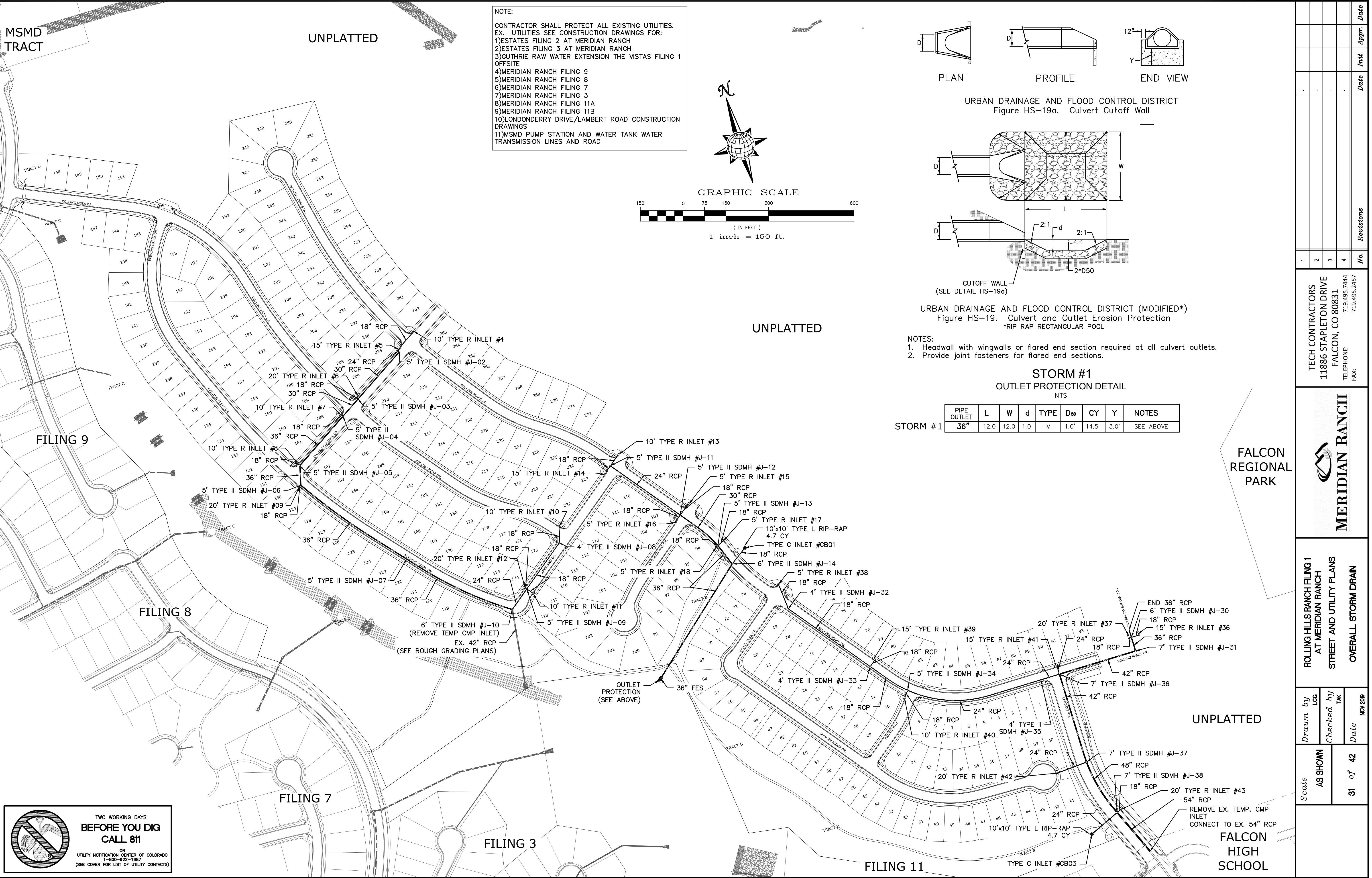
|                             |
|-----------------------------|
| RESIDENTIAL HOME            |
| 4,800 SQ. FT. (MAX)         |
| VB CONSTRUCTION             |
| REQ'D FIRE FLOW: 1750 GPM   |
| HYDRANT SPACING: 500' (MAX) |
| HOSE LAY DIST.: 250' (MAX)  |
| NON-SPRINKLER               |

|                                      |                                      |                                                                                                                                            |                                                                                                                                                                                                                                                                                    |                                     |      |       |       |
|--------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------|-------|-------|
| <div>Scale</div> <div>AS SHOWN</div> | <div>Drawn by</div> <div>LOG</div>   | <div>ROLLING HILLS RANCH FILING 1</div> <div>AT MERIDIAN RANCH</div> <div>STREET AND UTILITY PLANS</div> <div>OVERALL WATER SERVICES</div> | <div></div> <div>MERIDIAN RANCH</div> <div>TECH CONTRACTORS</div> <div>11886 STAPLETON DRIVE</div> <div>FALCON, CO 80831</div> <div>TELEPHONE: 719.495.7444</div> <div>FAX: 719.495.2457</div> | 1                                   | -    |       |       |
|                                      | <div>Checked by</div> <div>TAK</div> |                                                                                                                                            |                                                                                                                                                                                                                                                                                    | 2                                   | -    |       |       |
|                                      | <div>Date</div> <div>NOV 2019</div>  |                                                                                                                                            |                                                                                                                                                                                                                                                                                    | 3                                   | -    |       |       |
|                                      | <div>30 of 42</div>                  |                                                                                                                                            |                                                                                                                                                                                                                                                                                    | 4                                   | -    |       |       |
|                                      |                                      |                                                                                                                                            |                                                                                                                                                                                                                                                                                    | <div>No.</div> <div>Revisions</div> | Date | Init. | Appr. |

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PCD PROJECT NO. SF-XX-XXX







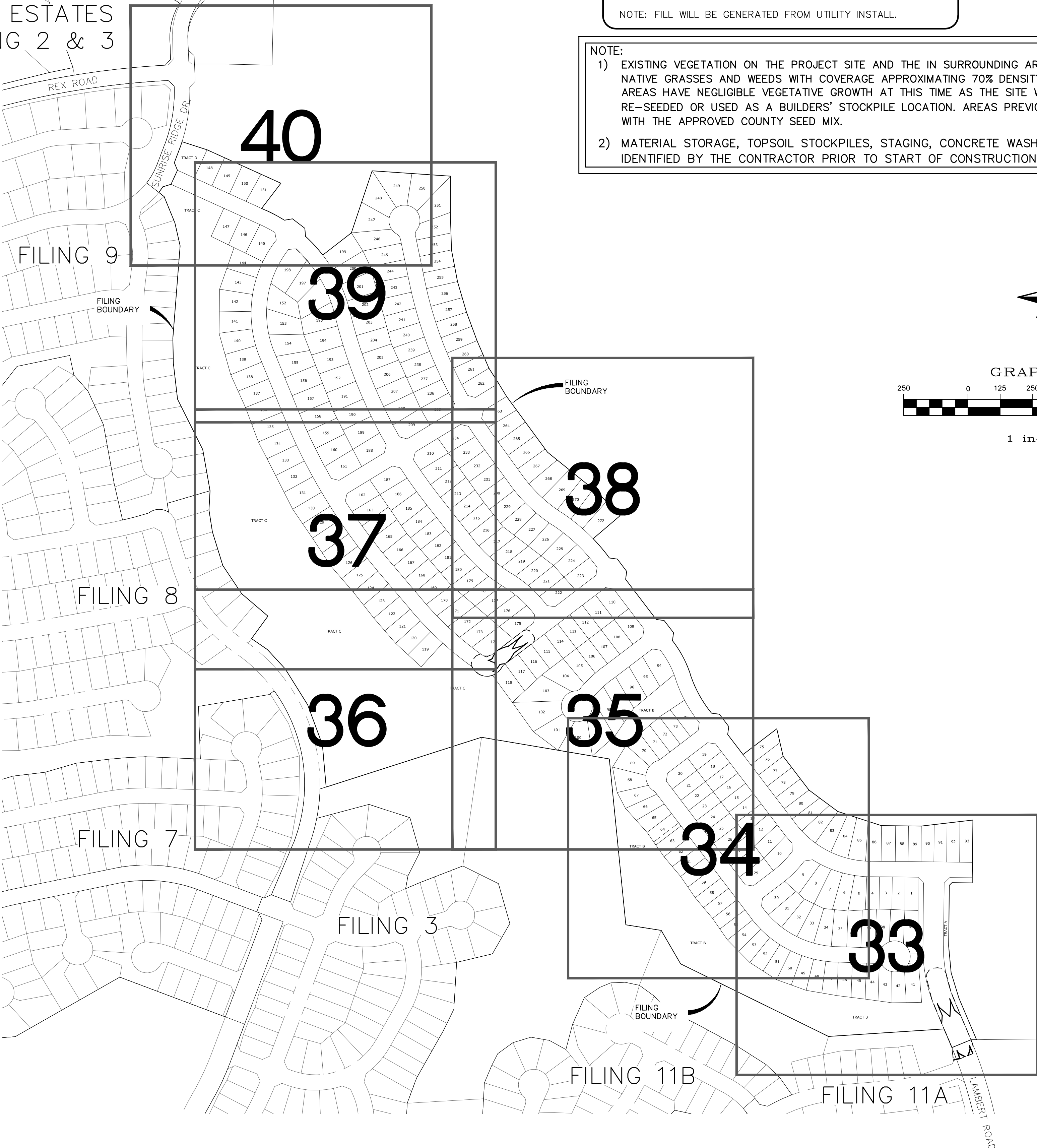
EL PASO COUNTY STANDARD NOTES:

- 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 TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. 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 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 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 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 STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- 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, C.R.S.), AND THE "CLEAN WATER ACT" (33 USC 1341) 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. AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- AT LEAST TEN 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

THE ESTATES  
AT ROLLING HILLS RANCH  
FILING 1

THE ESTATES  
FILING 2 & 3



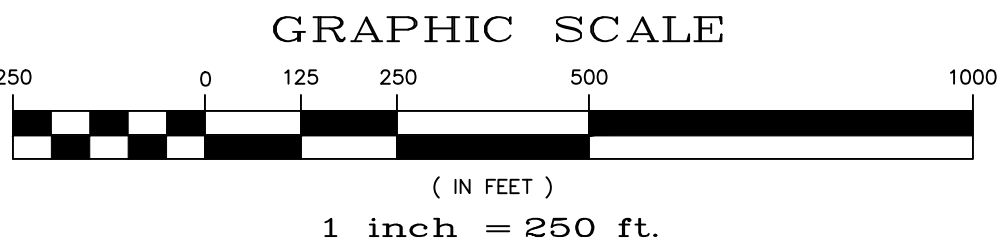
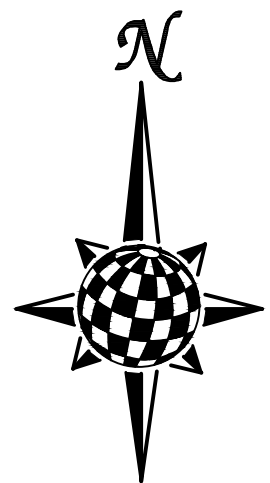
EARTHWORK QUANTITIES

|                       |                        |
|-----------------------|------------------------|
| NET YARDS             | BALANCE                |
| TOTAL STRIPPINGS      | 0.00 AC. 000 CY        |
| NET YARDS             | CUT 0 CY FILL 8,200 CY |
| 20% COMPACTION FACTOR |                        |

NOTE: FILL WILL BE GENERATED FROM UTILITY INSTALL.

NOTE:

- EXISTING VEGETATION ON THE PROJECT SITE AND THE IN SURROUNDING AREAS CONSISTS OF A MIXTURE OF NATIVE GRASSES AND WEEDS WITH COVERAGE APPROXIMATING 70% DENSITY UNLESS OTHERWISE NOTED. SOME AREAS HAVE NEGLIGIBLE VEGETATIVE GROWTH AT THIS TIME AS THE SITE WAS PREVIOUSLY GRADED AND RE-SEEDED OR USED AS A BUILDERS' STOCKPILE LOCATION. AREAS PREVIOUSLY GRADED HAS BEEN RE-SEEDED WITH THE APPROVED COUNTY SEED MIX.
- MATERIAL STORAGE, TOPSOIL STOCKPILES, STAGING, CONCRETE WASHOUT AND WASTE AREAS SHALL BE IDENTIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION AND ADJUSTED AS NECESSARY.



| No. | Revisions | Date | Appr. | Date |
|-----|-----------|------|-------|------|
| 1   |           |      |       |      |
| 2   |           |      |       |      |
| 3   |           |      |       |      |
| 4   |           |      |       |      |

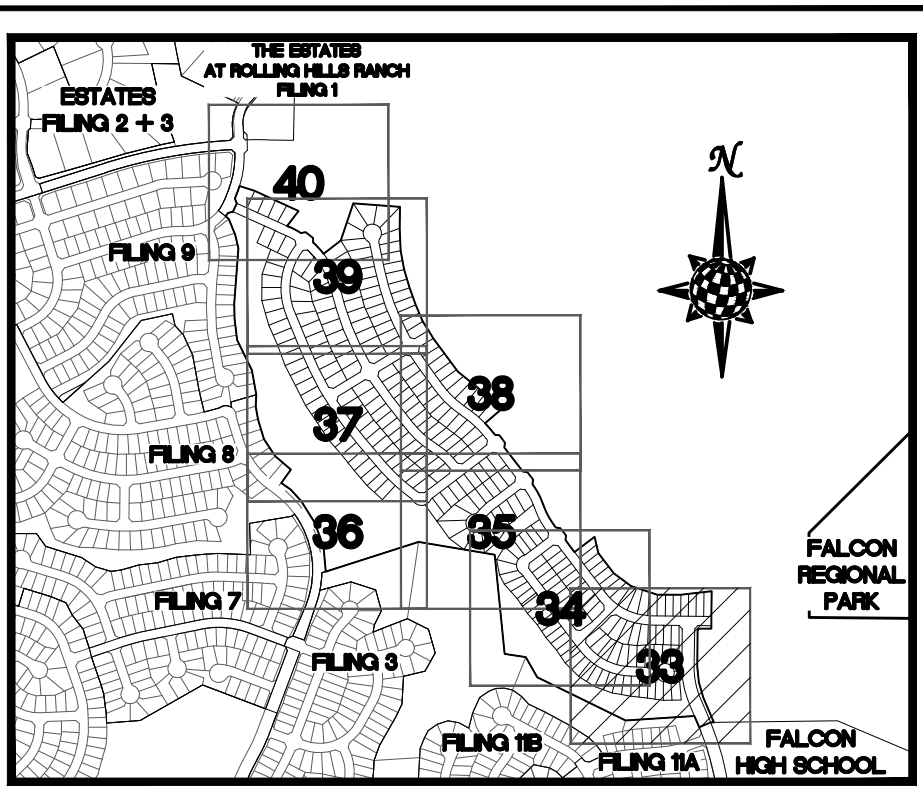
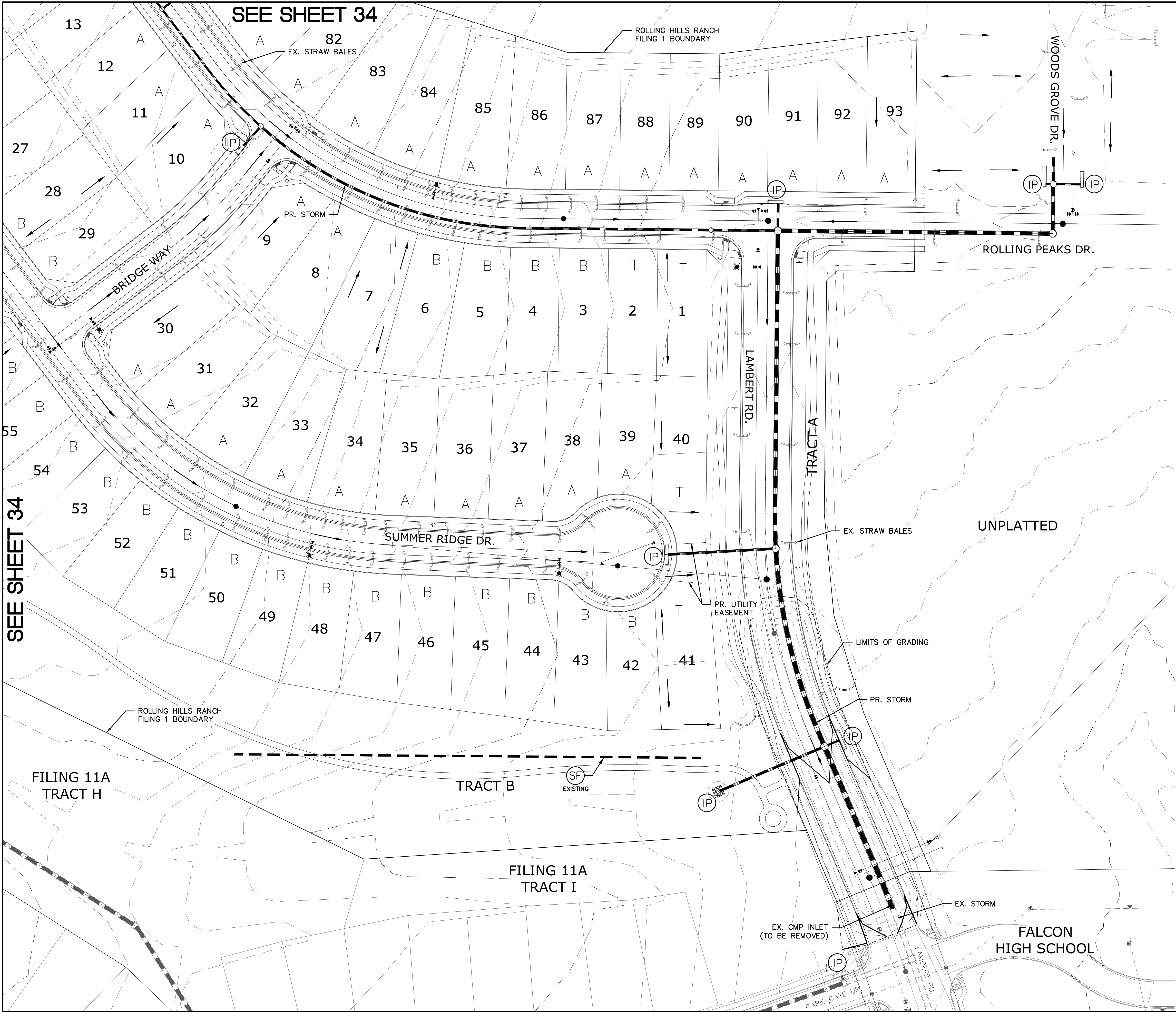
TECH CONTRACTORS  
11886 STAPLETON DRIVE  
FALCON, CO 80831  
TELEPHONE 719.495.7444  
FAX 719.495.2457



ROLLING HILLS RANCH FILING 1  
AT MERIDIAN RANCH  
GRADING/EROSION CONTROL PLAN  
INDEX SHEET

|          |     |            |     |          |
|----------|-----|------------|-----|----------|
| Drawn by | Loc | Checked by | TAK | Date     |
| AS SHOWN |     |            |     | NOV 2019 |
| 32 of 42 |     |            |     |          |

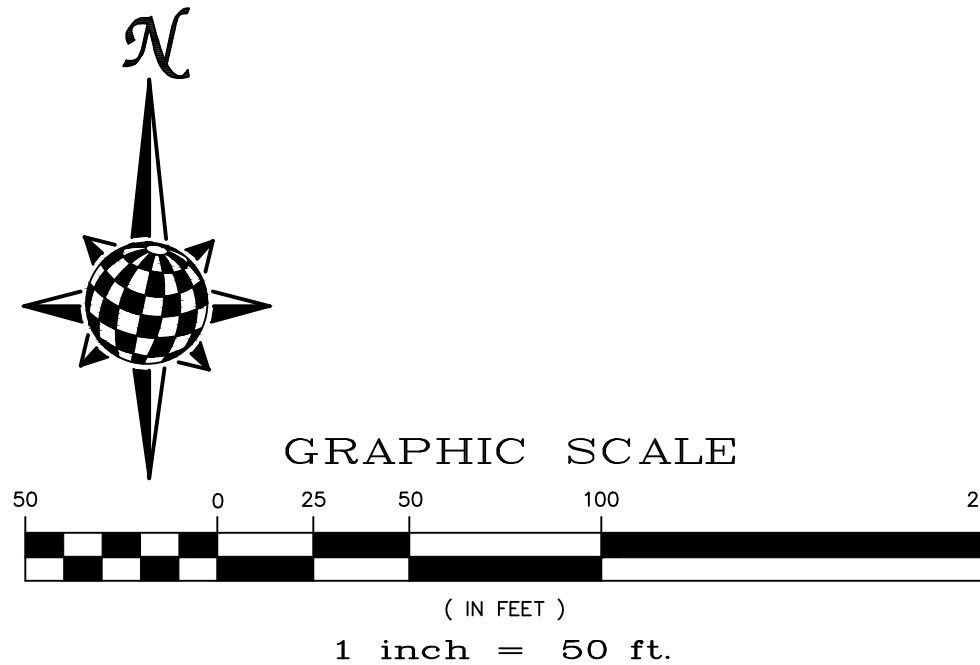




INDEX MAP  
N.T.S.

LEGEND

| SYMBOL | ACRONYM | DESCRIPTION                                                       |
|--------|---------|-------------------------------------------------------------------|
|        |         | STRAW BALES                                                       |
|        |         | EROSION WATTLES<br>PER DETAIL SHEET 42                            |
|        |         | EROSION CONTROL BLANKET<br>PER DETAIL ECB-1 & ECB-2<br>DCM VOL. 2 |
|        |         | RCP REINFORCED CONCRETE PIPE                                      |
|        | SF      | SILT FENCE PER DETAIL SF-1, SF-2<br>& SF-3 DCM VOL. 2             |
|        | UTC     | VEHICLE TRACKING CONTROL PER<br>DETAIL VT-2 DCM VOL. 2            |
|        | IP      | INLET PROTECTION PER<br>DETAIL SHEET 42                           |
|        |         | EXISTING CONTOUR (10')                                            |
|        |         | EXISTING CONTOUR (2')                                             |
|        |         | PROPOSED CONTOUR (10')                                            |
|        |         | PROPOSED CONTOUR (2')                                             |
|        |         | GRADE                                                             |
|        |         | LOT NUMBER                                                        |
|        |         | LOT GRADE TYPE                                                    |



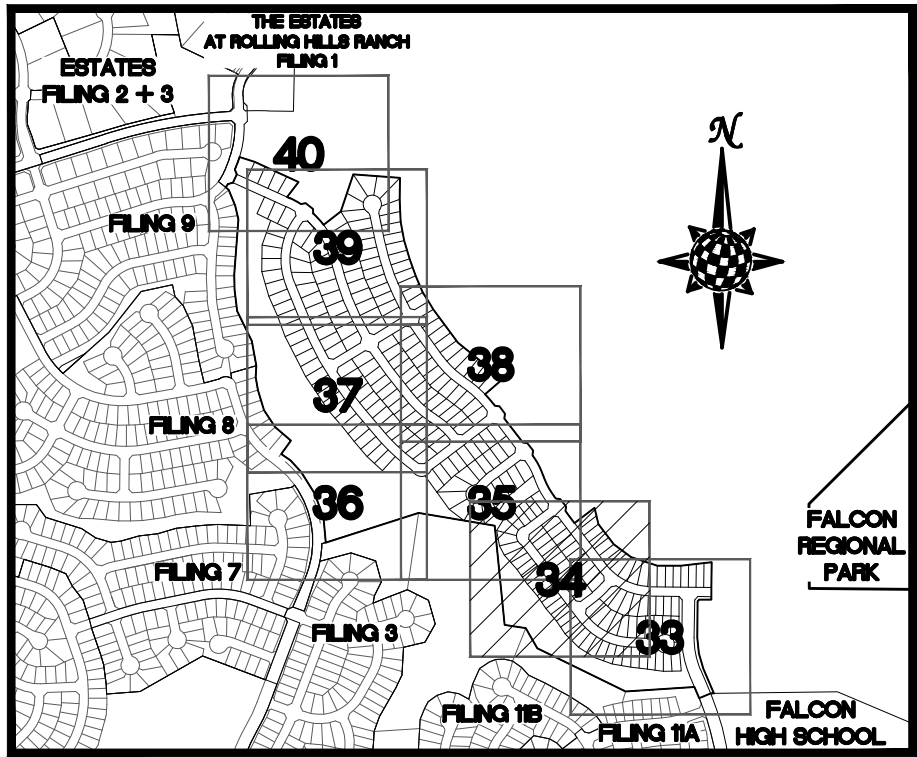
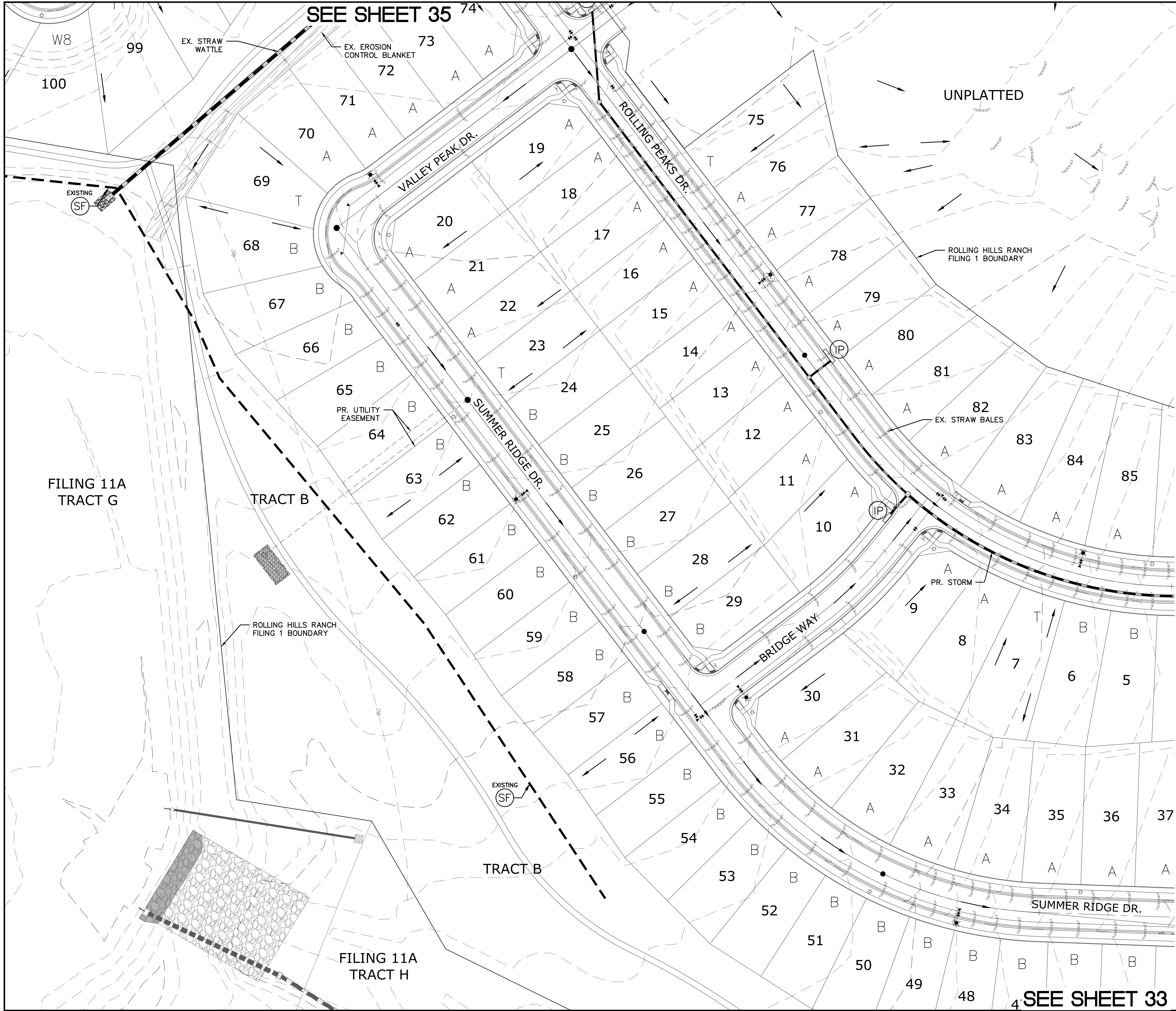
NOTE:  
ALL CONTOURS SHOWN WITHIN THE PLAN SET  
ARE TO FINISHED SURFACE. ALL STREET  
SECTIONS ARE TO BE GRADED TO ROUGH  
SUB-GRADE AS SHOWN IN THEIR RESPECTIVE  
TYPICAL STREET SECTION SHOWN ON SHEET 41.

CONTRACTOR SHALL PROTECT ALL EXISTING  
UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1)ESTATES FILING 2 AT MERIDIAN RANCH  
2)ESTATES FILING 3 AT MERIDIAN RANCH  
3)GUTHRIE RAW WATER EXTENSION THE VISTAS  
FILING 1 OFFSITE  
4)MERIDIAN RANCH FILING 9  
5)MERIDIAN RANCH FILING 8  
6)MERIDIAN RANCH FILING 7  
7)MERIDIAN RANCH FILING 3  
8)MERIDIAN RANCH FILING 11A  
9)MERIDIAN RANCH FILING 11B  
10)LONDONDERRY DRIVE/LAMBERT ROAD  
CONSTRUCTION DRAWINGS  
11)MSMD PUMP STATION AND WATER TANK  
WATER TRANSMISSION LINES AND ROAD



|                                                                                                             |          |            |     |           |
|-------------------------------------------------------------------------------------------------------------|----------|------------|-----|-----------|
|                                                                                                             |          |            |     | Date      |
|                                                                                                             |          |            |     | Appr.     |
|                                                                                                             |          |            |     | Init.     |
|                                                                                                             |          |            |     | Date      |
|                                                                                                             |          |            |     | Revisions |
| 1                                                                                                           | 2        | 3          | 4   | No.       |
| TECH CONTRACTORS<br>11886 STAPLETON DRIVE<br>FALCON, CO 80831<br>TELEPHONE 719.495.7444<br>FAX 719.495.2457 |          |            |     |           |
| MERIDIAN RANCH                                                                                              |          |            |     |           |
| ROLLING HILLS RANCH FILING 1<br>AT MERIDIAN RANCH<br>GRADING-EROSION CONTROL PLAN<br>LAYOUT                 |          |            |     |           |
| Drawn by                                                                                                    | Log      | Checked by | TAK | Date      |
| AS SHOWN                                                                                                    |          |            |     | NOV 2019  |
| Scale                                                                                                       | 33 of 42 |            |     |           |

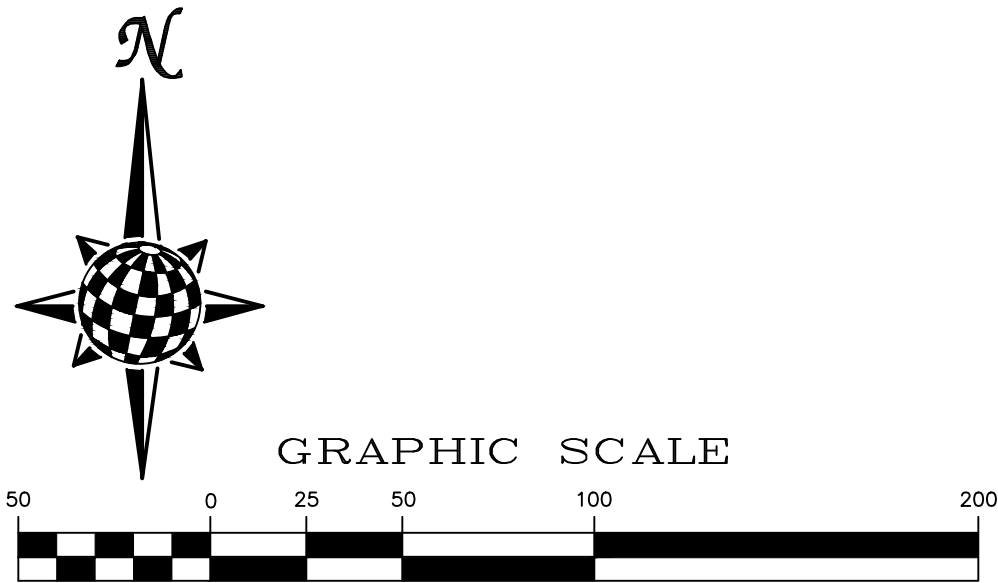




INDEX MAP  
N.T.S.

LEGEND

| SYMBOL | ACRONYM | DESCRIPTION                                                       |
|--------|---------|-------------------------------------------------------------------|
|        |         | STRAW BALES                                                       |
|        |         | EROSION WATTLES<br>PER DETAIL SHEET 42                            |
|        |         | EROSION CONTROL BLANKET<br>PER DETAIL ECB-1 & ECB-2<br>DCM VOL. 2 |
|        | RCP     | REINFORCED CONCRETE PIPE                                          |
|        | SF      | SILT FENCE PER DETAIL SF-1, SF-2<br>& SF-3 DCM VOL. 2             |
|        | UTC     | VEHICLE TRACKING CONTROL PER<br>DETAIL VT-2 DCM VOL. 2            |
|        | IP      | INLET PROTECTION PER<br>DETAIL SHEET 42                           |
|        |         | EXISTING CONTOUR (10')                                            |
|        |         | EXISTING CONTOUR (2')                                             |
|        |         | PROPOSED CONTOUR (10')                                            |
|        |         | PROPOSED CONTOUR (2')                                             |
|        |         | GRADE                                                             |
|        |         | LOT NUMBER                                                        |
|        |         | LOT GRADE TYPE                                                    |



NOTE:  
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CONSTRUCTION DRAWINGS  
11)MSMD PUMP STATION AND WATER TANK  
WATER TRANSMISSION LINES AND ROAD



TWO WORKING DAYS  
BEFORE YOU DIG  
CALL 811

OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

|                                                                                                             |          |            |     |      |           |
|-------------------------------------------------------------------------------------------------------------|----------|------------|-----|------|-----------|
|                                                                                                             |          |            |     |      | Date      |
|                                                                                                             |          |            |     |      | Appr.     |
|                                                                                                             |          |            |     |      | Date      |
|                                                                                                             |          |            |     |      | Init.     |
|                                                                                                             |          |            |     |      | Date      |
|                                                                                                             |          |            |     |      | Revisions |
| 1                                                                                                           | 2        | 3          | 4   | No.  |           |
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| MERIDIAN RANCH                                                                                              |          |            |     |      |           |
| ROLLING HILLS RANCH FILING 1<br>AT MERIDIAN RANCH<br>GRADING/EROSION CONTROL PLAN<br>LAYOUT                 |          |            |     |      |           |
| Drawn by                                                                                                    | Log      | Checked by | TAK | Date | NOV 2019  |
| Scale                                                                                                       | AS SHOWN |            | 34  | of   | 42        |

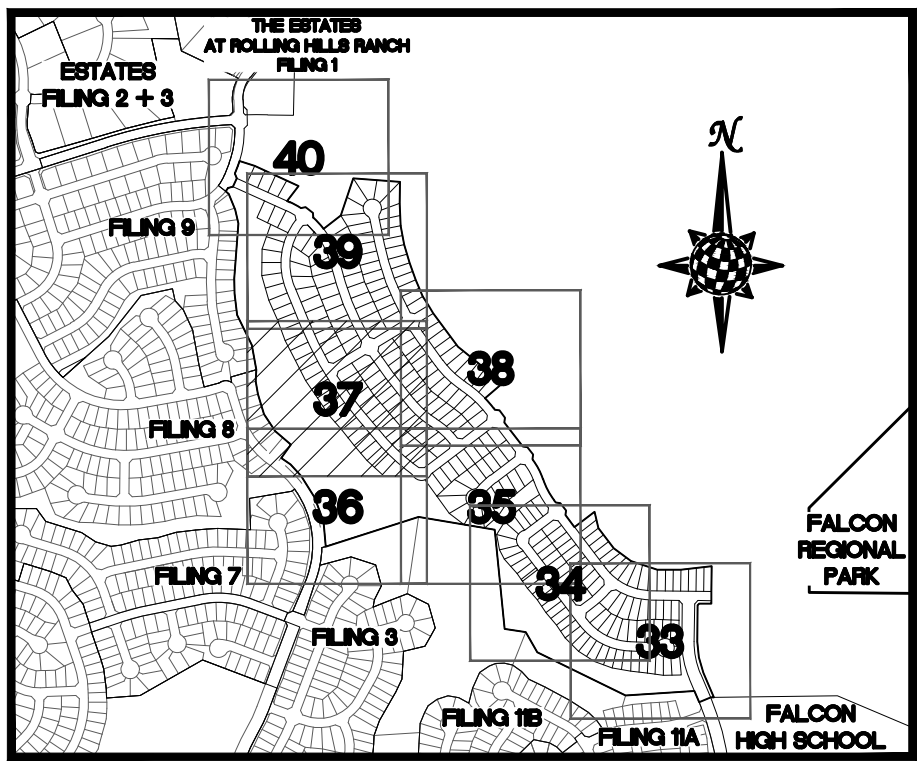
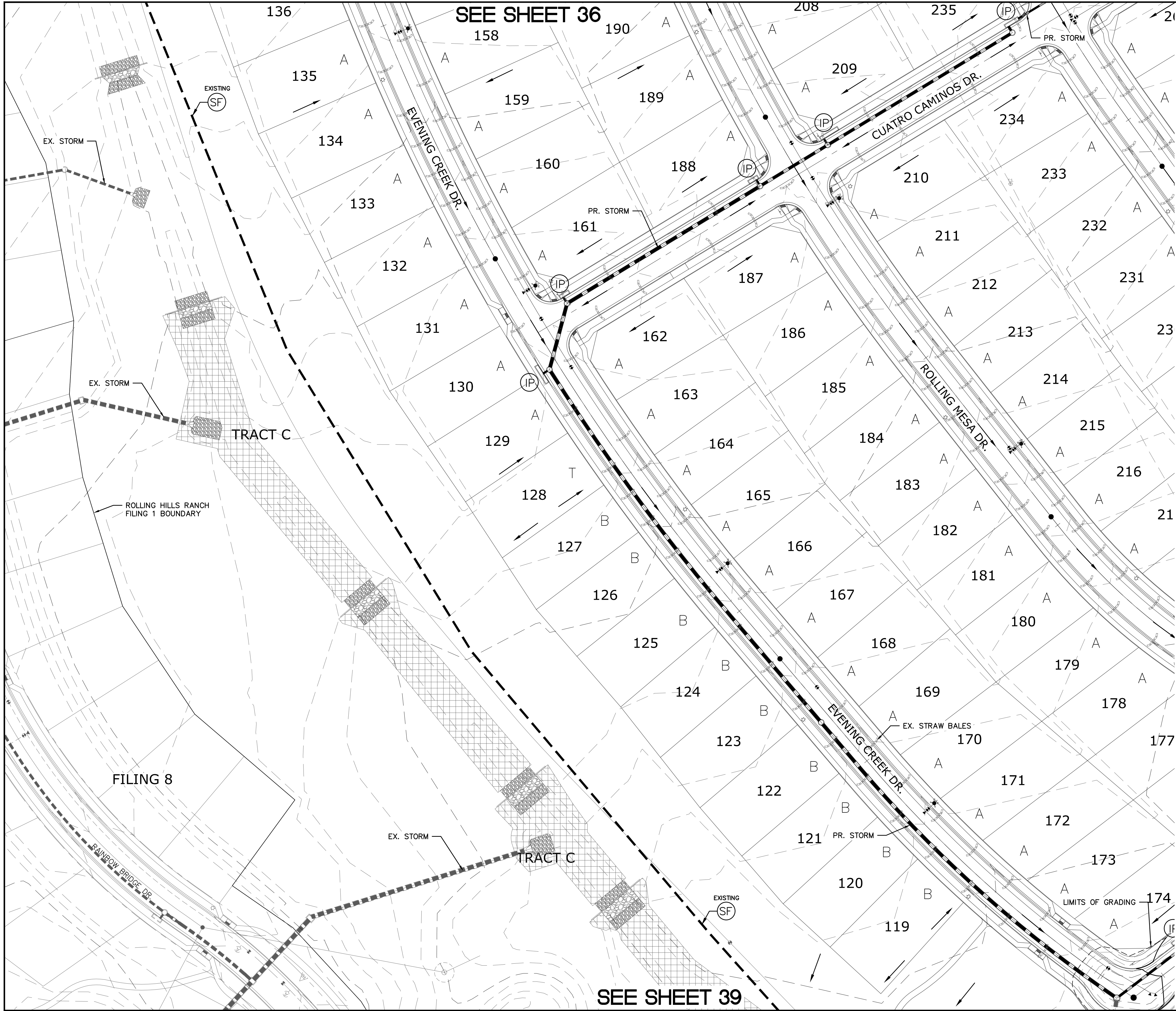








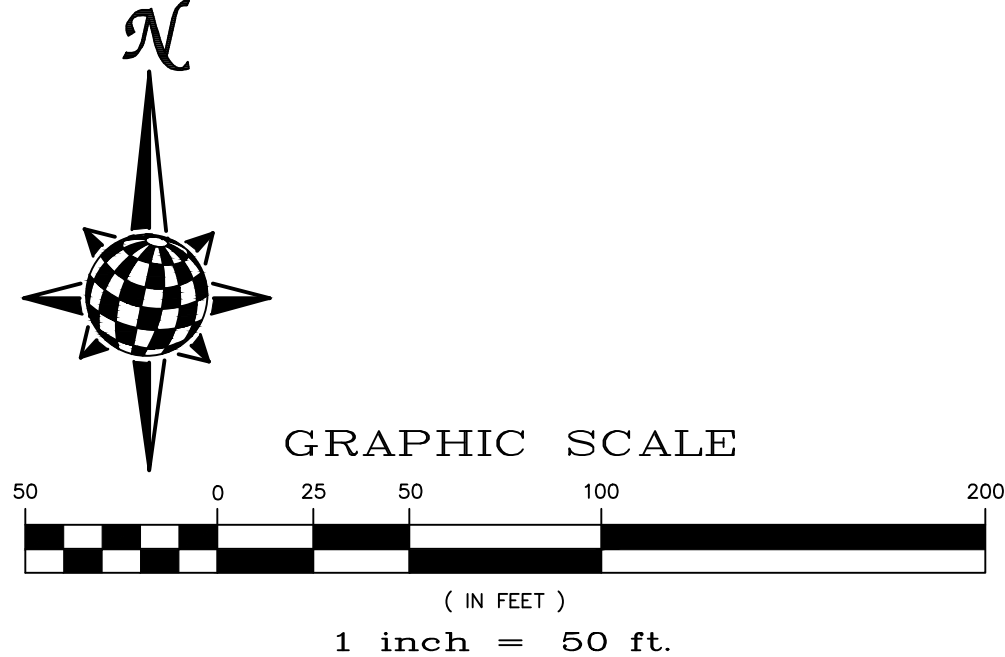




INDEX MAP  
N.T.S.


LEGEND

| SYMBOL | ACRONYM | DESCRIPTION                                                       |
|--------|---------|-------------------------------------------------------------------|
|        |         | STRAW BALES                                                       |
|        |         | EROSION WATTLES<br>PER DETAIL SHEET 42                            |
|        |         | EROSION CONTROL BLANKET<br>PER DETAIL ECB-1 & ECB-2<br>DCM VOL. 2 |
|        | RCP     | REINFORCED CONCRETE PIPE                                          |
|        | SF      | SILT FENCE PER DETAIL SF-1, SF-2<br>& SF-3 DCM VOL. 2             |
|        | UTC     | VEHICLE TRACKING CONTROL PER<br>DETAIL VT-2 DCM VOL. 2            |
|        | IP      | INLET PROTECTION PER<br>DETAIL SHEET 42                           |
|        |         | EXISTING CONTOUR (10')                                            |
|        |         | EXISTING CONTOUR (2')                                             |
|        |         | PROPOSED CONTOUR (10')                                            |
|        |         | PROPOSED CONTOUR (2')                                             |
|        |         | GRADE                                                             |
|        |         | LOT NUMBER                                                        |
|        |         | LOT GRADE TYPE                                                    |



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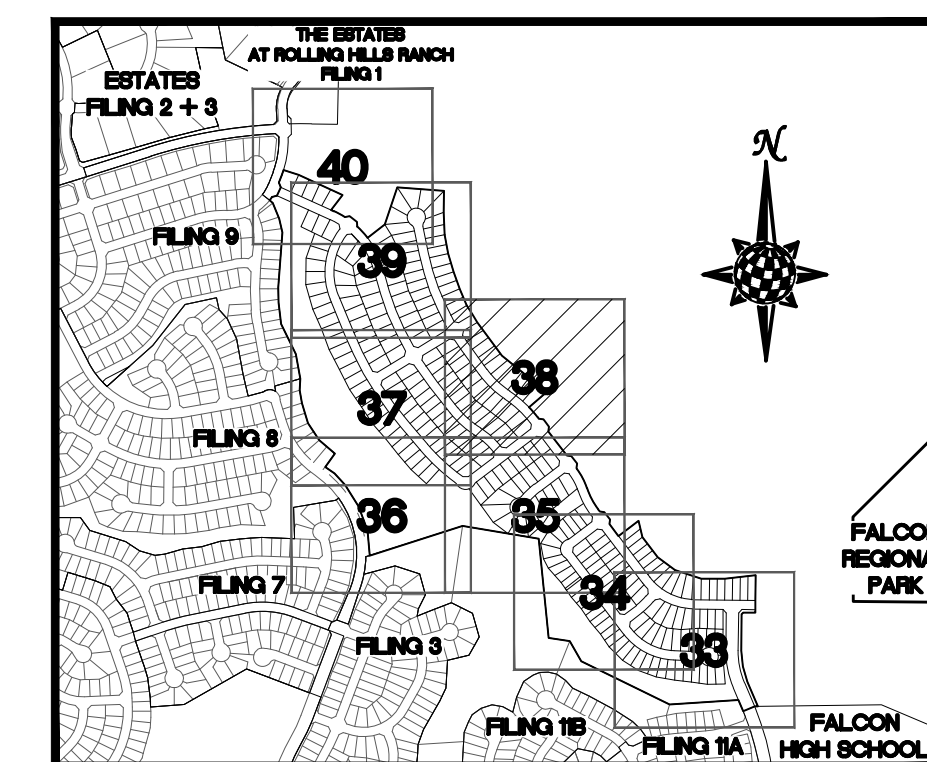
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|                                                                                                               |          |            |     |           |
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|                                                                                                               |          |            |     | Date      |
|                                                                                                               |          |            |     | Init.     |
|                                                                                                               |          |            |     | Date      |
|                                                                                                               |          |            |     | Revisions |
| 1                                                                                                             | 2        | 3          | 4   | No.       |
| TECH CONTRACTORS<br>11886 STAPLETON DRIVE<br>FALCON, CO 80831<br>TELEPHONE: 719.495.7444<br>FAX: 719.495.2457 |          |            |     |           |
|  <b>MERIDIAN RANCH</b>   |          |            |     |           |
| ROLLING HILLS RANCH FILING 1<br>AT MERIDIAN RANCH<br>GRADING-EROSION CONTROL PLAN<br>LAYOUT                   |          |            |     |           |
| Drawn by                                                                                                      | Log      | Checked by | TAK | Date      |
| AS SHOWN                                                                                                      |          |            |     | NOV 2019  |
| Scale                                                                                                         | 37 of 42 |            |     |           |






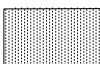



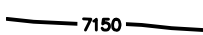


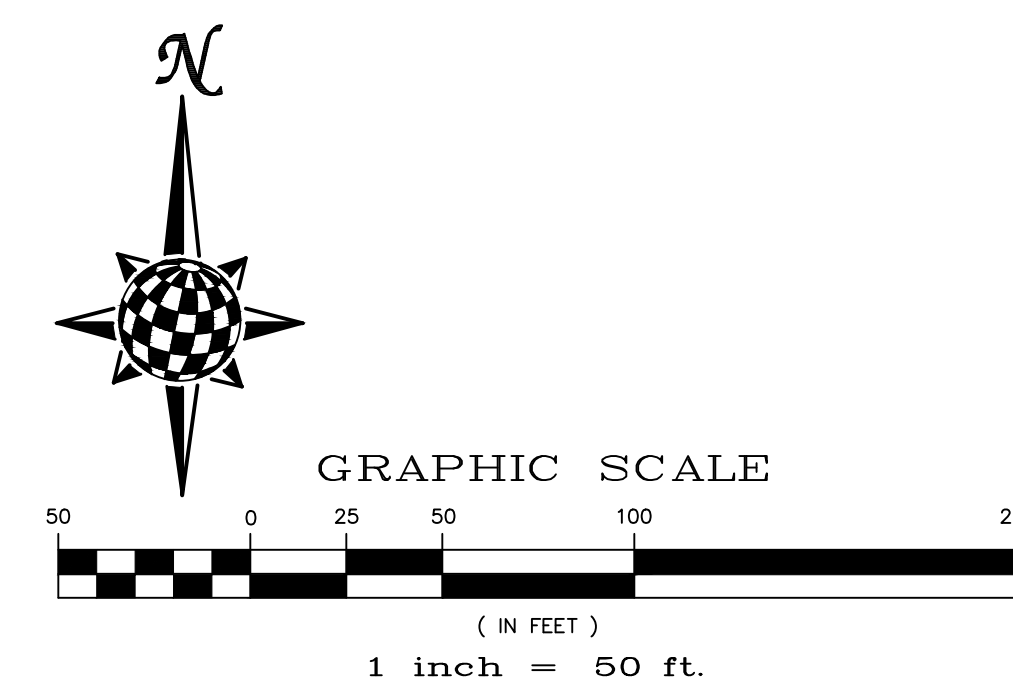


# INDEX MAP

N.T.S.

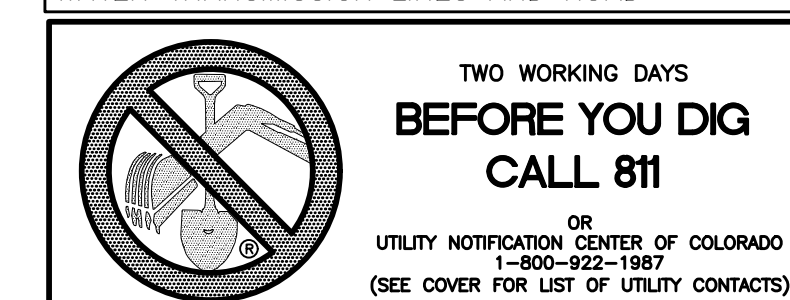
LEGEND


| <u><b>SYMBOL</b></u>                                                                | <u><b>ACRONYM</b></u> | <u><b>DESCRIPTION</b></u>                                         |
|-------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------|
|  |                       | STRAW BALES                                                       |
|  |                       | EROSION WATTLES<br>PER DETAIL SHEET 42                            |
|  |                       | EROSION CONTROL BLANKET<br>PER DETAIL ECB-1 & ECB-2<br>DCM VOL. 2 |
|  | RCP                   | REINFORCED CONCRETE PIPE                                          |
|  | (SF)                  | SILT FENCE PER DETAIL SF-1, SF-2<br>& SF-3 DCM VOL. 2             |
|  | (VTC)                 | VEHICLE TRACKING CONTROL PER<br>DETAIL VT-2 DCM VOL. 2            |
|                                                                                     | (IP)                  | INLET PROTECTION PER<br>DETAIL SHEET 42                           |
|  |                       | EXISTING CONTOUR (10')                                            |
|  |                       | EXISTING CONTOUR (2')                                             |
|  |                       | PROPOSED CONTOUR (10')                                            |
|  |                       | PROPOSED CONTOUR (2')                                             |
| 2.00%                                                                               |                       | GRADE                                                             |
| 75                                                                                  |                       | LOT NUMBER                                                        |
| A                                                                                   |                       | LOT GRADE TYPE                                                    |



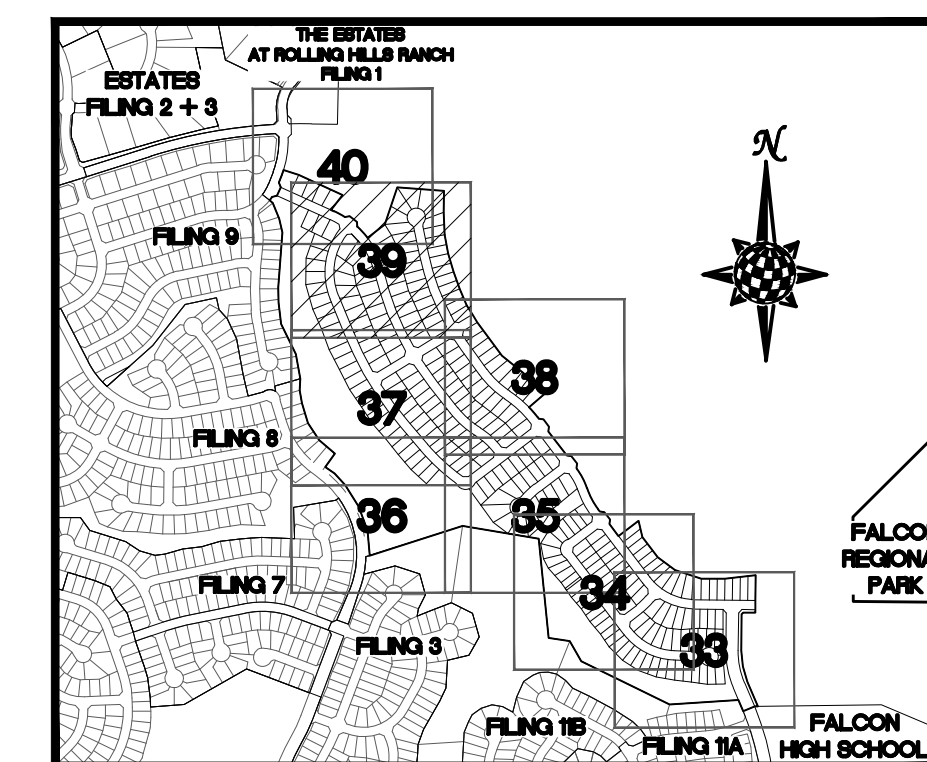
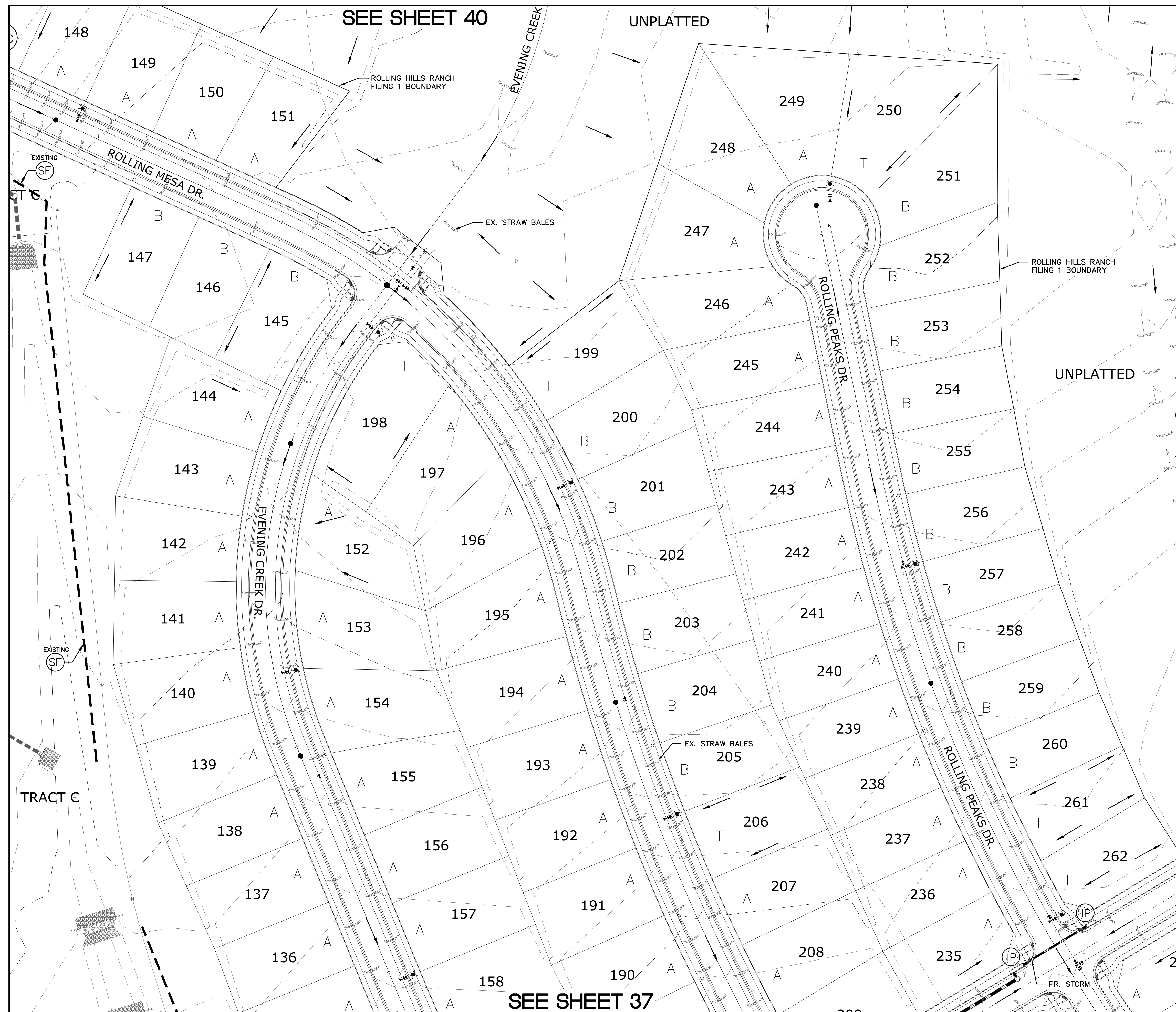
NOTE:  
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SECTIONS ARE TO BE GRADED TO ROUGH  
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TYPICAL STREET SECTION SHOWN ON SHEET 41.

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
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1)ESTATES FILING 2 AT MERIDIAN RANCH  
2)ESTATES FILING 3 AT MERIDIAN RANCH  
3)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE  
4)MERIDIAN RANCH FILING 9  
5)MERIDIAN RANCH FILING 8  
6)MERIDIAN RANCH FILING 7  
7)MERIDIAN RANCH FILING 3  
8)MERIDIAN RANCH FILING 11A  
9)MERIDIAN RANCH FILING 11B  
10)LONDONDERRY DRIVE/LAMBERT ROAD  
CONSTRUCTION DRAWINGS  
11)MSMD PUMP STATION AND WATER TANK  
WATER TRANSMISSION LINES AND ROAD



|                                      |            |                                                                                                                                |                                                                                                                           |                                                                                                                                                          |     |           |      |       |       |      |  |  |
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| <div>Scale</div> <div>AS SHOWN</div> | Drawn by   | <div>ROLLING HILLS RANCH FILING 1</div> <div>AT MERIDIAN RANCH</div> <div>GRADING/EROSION CONTROL PLAN</div> <div>LAYOUT</div> | <div></div> <div>MERIDIAN RANCH</div> | <div>TECH CONTRACTORS</div> <div>11886 STAPLETON DRIVE</div> <div>FALCON, CO 80831</div> <div>TELEPHONE: 719.495.7444</div> <div>FAX: 719.495.2457</div> | 1   |           |      |       |       |      |  |  |
|                                      | Checked by |                                                                                                                                |                                                                                                                           |                                                                                                                                                          | 2   |           |      |       |       |      |  |  |
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|                                      | Date       |                                                                                                                                |                                                                                                                           |                                                                                                                                                          | 4   |           |      |       |       |      |  |  |
|                                      | NOV 2019   |                                                                                                                                |                                                                                                                           |                                                                                                                                                          |     |           |      |       |       |      |  |  |
| 38 of 42                             |            |                                                                                                                                |                                                                                                                           |                                                                                                                                                          | No. | Revisions | Date | Init. | Appr. | Date |  |  |










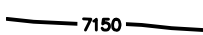
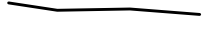


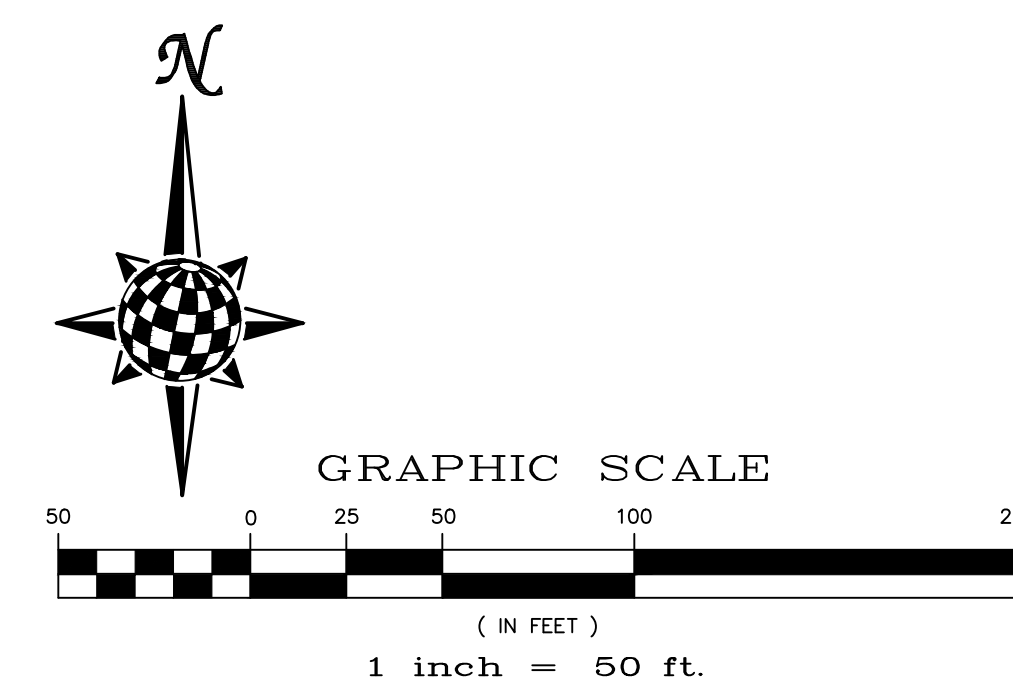


# INDEX MAP

N.T.S.

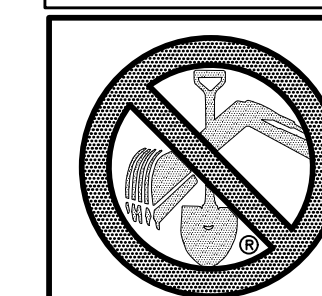
### LEGEND

| <u><b>SYMBOL</b></u>                                                                | <u><b>ACRONYM</b></u> | <u><b>DESCRIPTION</b></u>                                         |
|-------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------|
|  |                       | STRAW BALES                                                       |
|  |                       | EROSION WATTLES<br>PER DETAIL SHEET 42                            |
|  |                       | EROSION CONTROL BLANKET<br>PER DETAIL ECB-1 & ECB-2<br>DCM VOL. 2 |
|  | RCP                   | REINFORCED CONCRETE PIPE                                          |
|  | (SF)                  | SILT FENCE PER DETAIL SF-1, SF-2<br>& SF-3 DCM VOL. 2             |
|  | (VTC)                 | VEHICLE TRACKING CONTROL PER<br>DETAIL VT-2 DCM VOL. 2            |
|  | (IP)                  | INLET PROTECTION PER<br>DETAIL SHEET 42                           |
|  |                       | EXISTING CONTOUR (10')                                            |
|  |                       | EXISTING CONTOUR (2')                                             |
|  |                       | PROPOSED CONTOUR (10')                                            |
|  |                       | PROPOSED CONTOUR (2')                                             |
| 2.00%                                                                               |                       | GRADE                                                             |
| 75                                                                                  |                       | LOT NUMBER                                                        |
| A                                                                                   |                       | LOT GRADE TYPE                                                    |




NOTE:  
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11)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD



**TWO WORKING DAYS  
BEFORE YOU DIG  
CALL 811**

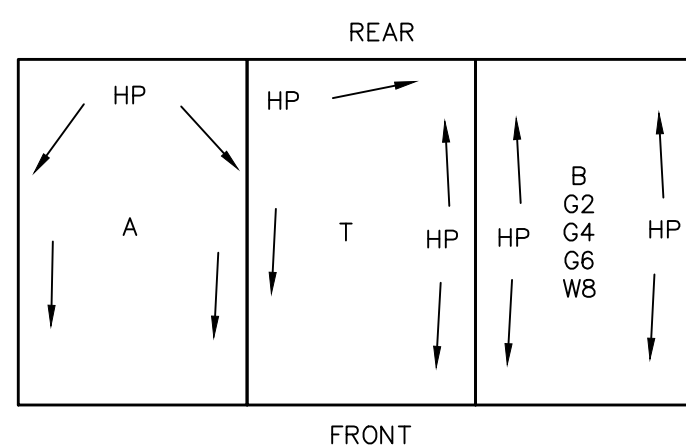
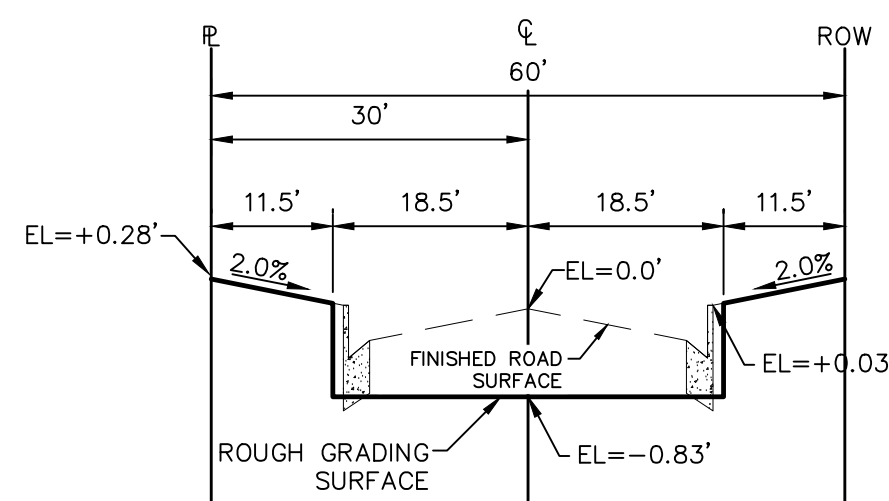
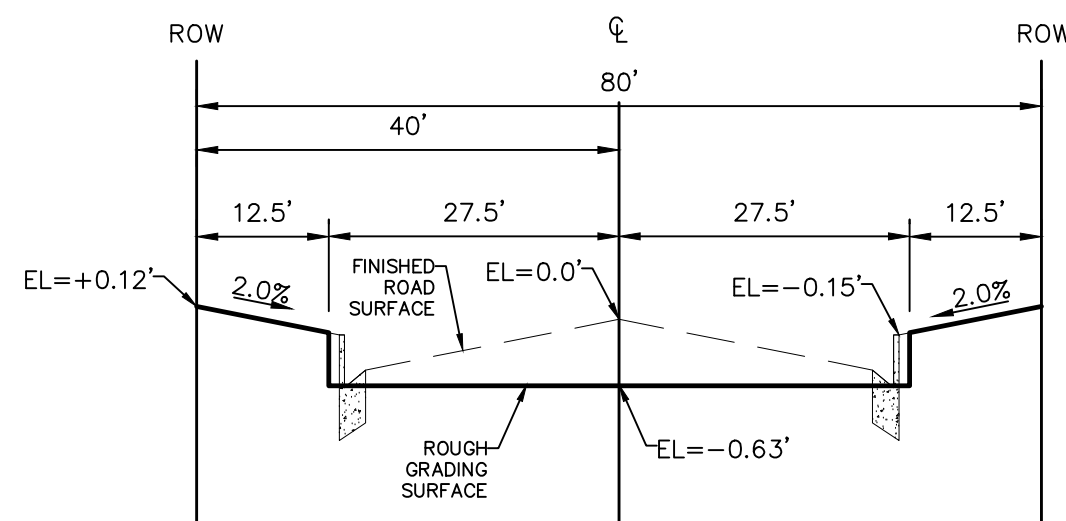
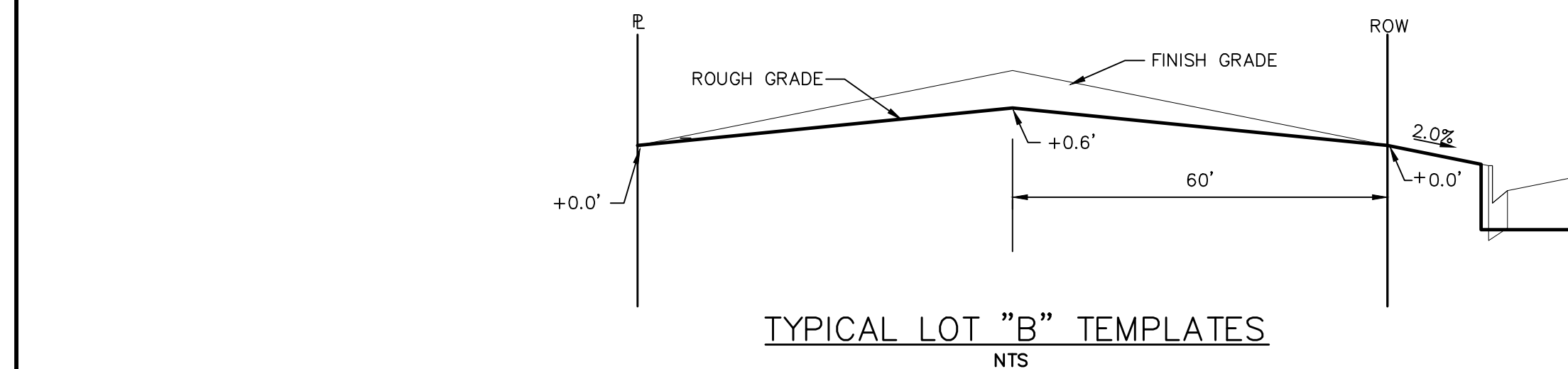
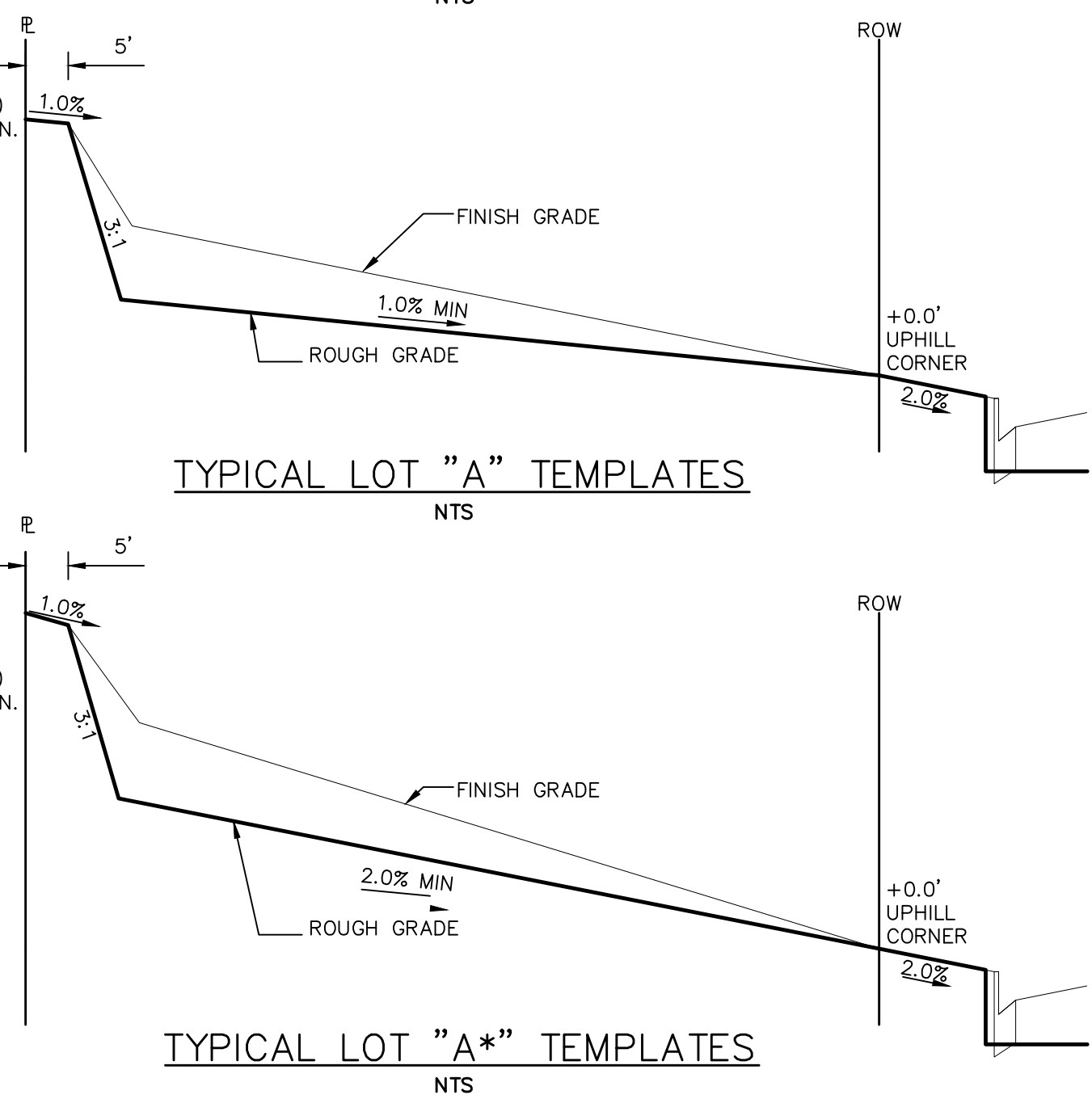
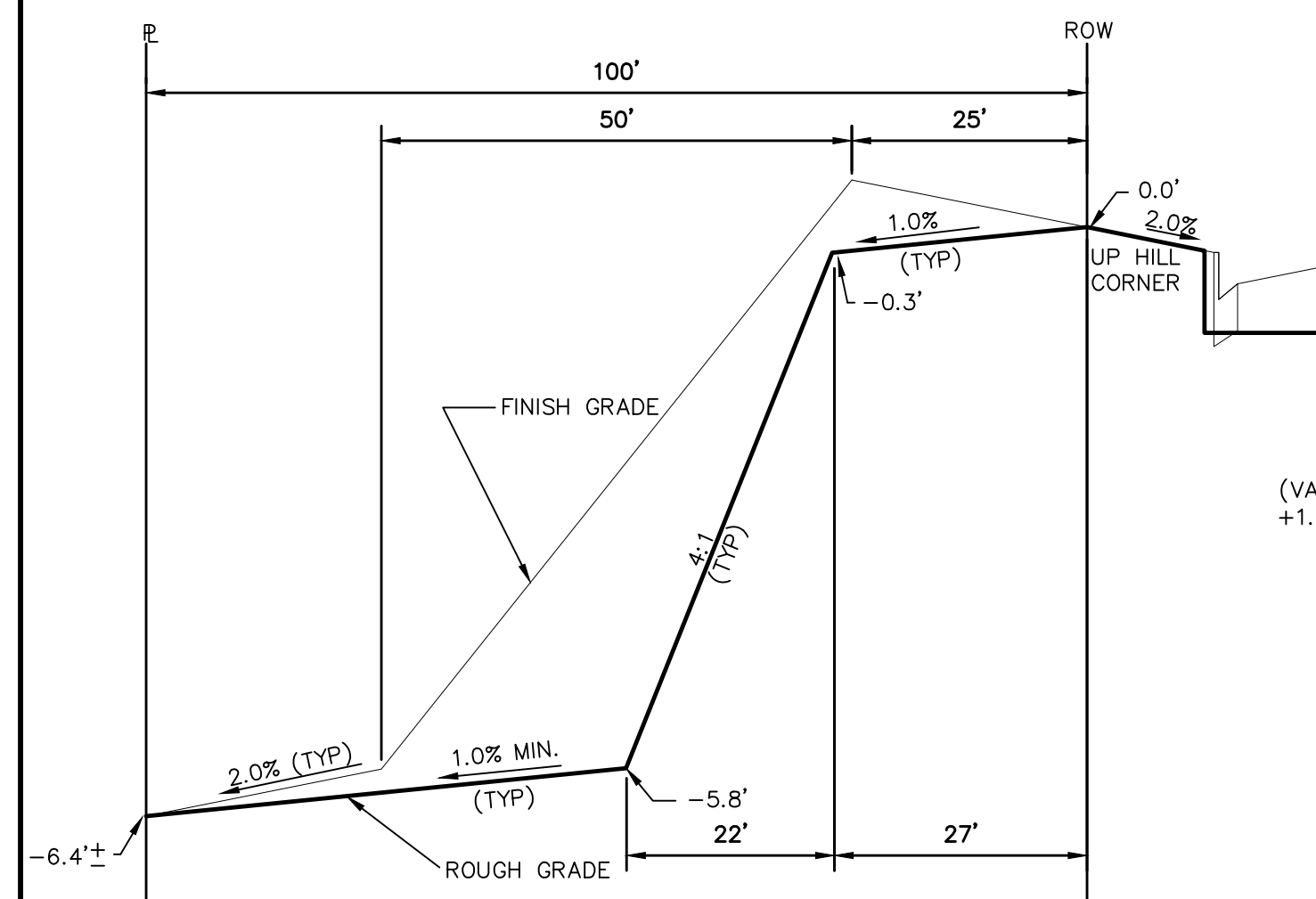
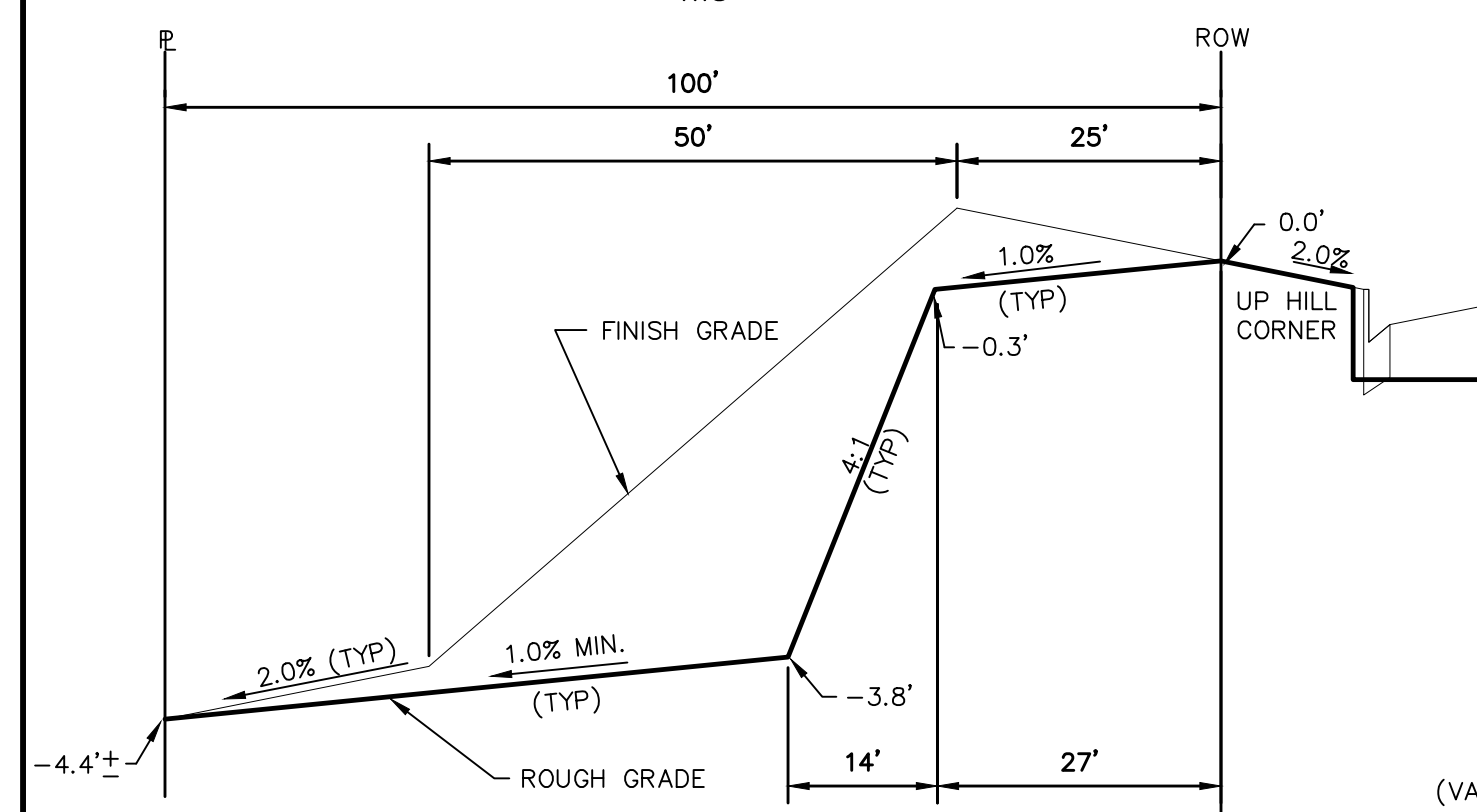
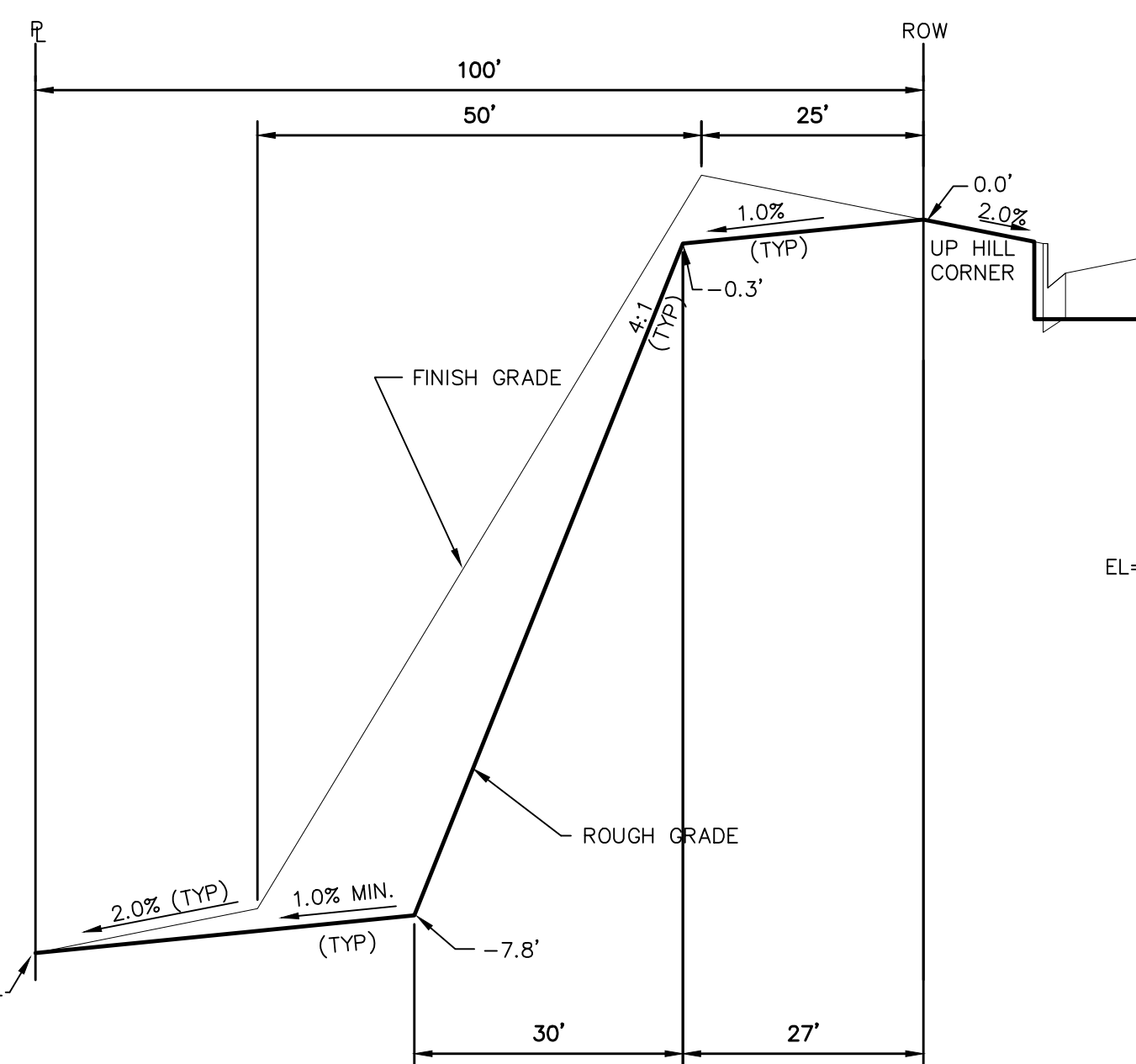
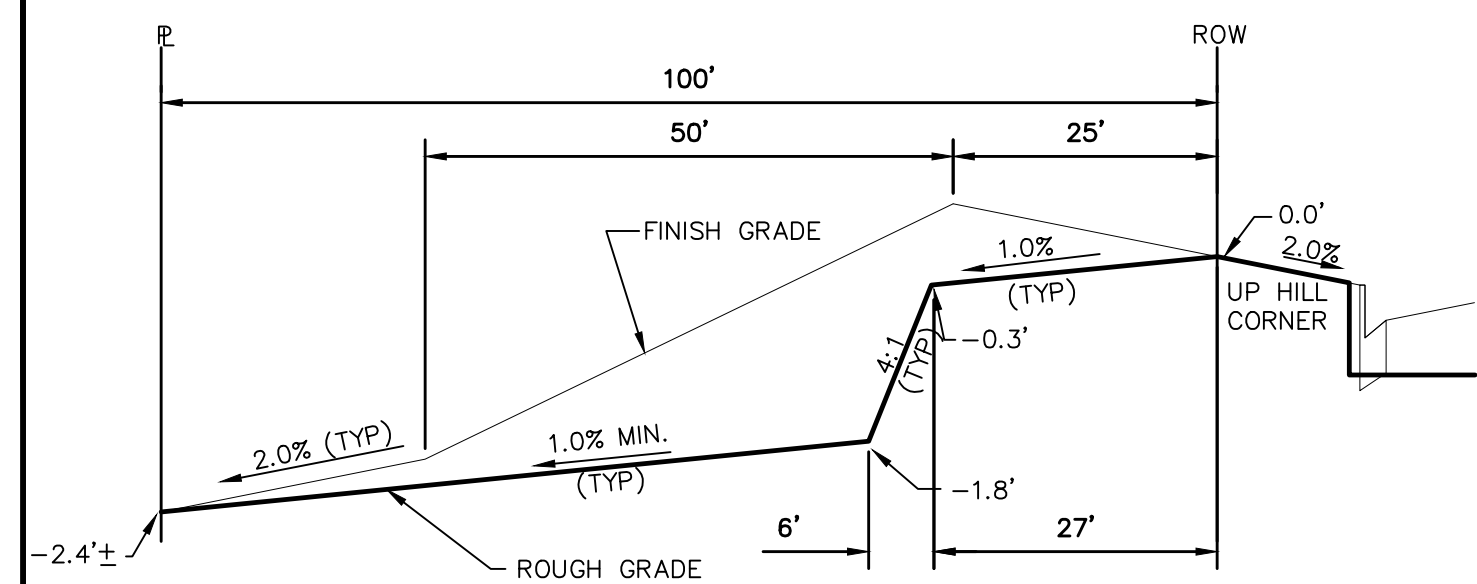
OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

|                                      |            |                                                                                                                                |                                                                                                                           |                                                                                                                                                          |     |           |      |       |       |      |  |  |
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| <div>Scale</div> <div>AS SHOWN</div> | Drawn by   | <div>ROLLING HILLS RANCH FILING 1</div> <div>AT MERIDIAN RANCH</div> <div>GRADING/EROSION CONTROL PLAN</div> <div>LAYOUT</div> | <div></div> <div>MERIDIAN RANCH</div> | <div>TECH CONTRACTORS</div> <div>11886 STAPLETON DRIVE</div> <div>FALCON, CO 80831</div> <div>TELEPHONE: 719.495.7444</div> <div>FAX: 719.495.2457</div> | 1   |           |      |       |       |      |  |  |
|                                      | Checked by |                                                                                                                                |                                                                                                                           |                                                                                                                                                          | 2   |           |      |       |       |      |  |  |
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|                                      | NOV 2019   |                                                                                                                                |                                                                                                                           |                                                                                                                                                          |     |           |      |       |       |      |  |  |
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NOTE:

"FINISH GRADE" IN THE TEMPLATES ARE ONLY APPROXIMATE GRADES. ACTUAL FINISHED GRADES WILL VARY DEPENDING ON INDIVIDUAL HOME PLOT PLANS. PLOT PLANS SHALL CLOSELY FOLLOW THE FINISH GRADE PATTERNS SHOWN IN THE TEMPLATES WITHOUT ADVERSELY AFFECTING THE GRADES AND DRAINAGE PATTERNS OF NEIGHBORING LOTS OR TRACTS. CONTOURS SHOWN ON THESE PLANS ARE ROUGH GRADES AND WILL CHANGE WITH EVERY HOME CONSTRUCTION. FIELD VERIFY ALL GRADES PRIOR DESIGN OF INDIVIDUAL HOME PLOT PLANS.

## STEPS FOR CONSTRUCTION

THE ANTICIPATED START FOR THIS PROJECT IS MARCH 2020 WITH AN ANTICIPATED COMPLETION DATE OF JUNE 2021. BELOW IS A BRIEF OUTLINE OF THE CONSTRUCTION SEQUENCE FOR THIS PROJECT.

- \* INSTALL INITIAL BMP'S
- \* SANITARY SEWER
- \* WATER
- \* STORM SEWER AND CULVERTS
- \* ELECTRIC
- \* GAS
- \* PHONE & CABLE TV
- \* FINISHED ROAD GRADING AND PAVING

## EROSION AND SEDIMENT CONTROLS

SILT FENCES AND STRAW BALE CHECK DAMS (OR APPROVED EQUAL) WILL BE INSTALLED PRIOR TO ANY EXCAVATION FOR THE MAJOR ROADS. STRAW BALE CHECK DAMS, FILTERX OR APPROVED EQUAL WILL BE PLACED AT ALL ENTRANCES AND EXITS OF DRAINAGE WAYS. STRAW BALES, FILTERXX OR APPROVED EQUAL WILL BE INSTALLED AROUND THE OUTLET AND OVERTFLOW STRUCTURE. THE OUTLET STRUCTURE WILL ALSO BE PROTECTED WITH RIPRAP ON THE DOWNSTREAM SIDE.

NON-STRUCTURE PRACTICES TO CONTROL EROSION AND SEDIMENTATION WILL INCLUDE RESEEDING OF GROUND COVER IN DISTURBED AREAS ACCORDING TO THE EROSION CONTROL PLAN. TEMPORARY SEEDING OF THE DETENTION POND AND MULCHING ALONG STEEP EMBANKMENTS WILL BE PERFORMED AS REQUIRED.

SILT FENCE IS REQUIRED TO BE IN PLACE PRIOR TO ANY MOVEMENT OF DIRT.

## MATERIAL HANDLING AND SPILL PREVENTION

THE MOST PROBABLE SOURCE OF NON-STORMWATER POLLUTION IS REFUELING AND DAILY MAINTENANCE OPERATIONS. IF MOBILE FUEL TRUCKS ARE USED TO SERVICE EQUIPMENT, ABSORBENT MATERIALS AND CONTAINERS FOR THE STORAGE OF USED ABSORBENT MATERIAL WILL BE CLOSE BY. IF A FUEL TANK IS LEFT ON SITE, BERMS WILL BE BUILT AROUND THE TANK TO CAPTURE ANY SPILLED FUEL. AGAIN, ABSORBENT MATERIALS AND THEIR CONTAINERS WILL BE ON HAND.

THERE ARE NO DEDICATED ASPHALT OR CONCRETE BATCH PLANTS PLANNED FOR THIS SITE.

## FINAL STABILIZATION AND LONG TERM STORMWATER MANAGEMENT

ONCE THE MAJOR ROADS ARE PAVED AND THE SURROUNDING DISTURBED AREAS ARE 70% ESTABLISHED WITH VEGETATION AND ACCEPTANCE BY THE MERIDIAN RANCH SERVICE DISTRICT, THE CHECK DAMS AND THE SILT FENCES AROUND THE STREETS CAN BE REMOVED. AFTER COMPLETION OF THE STORM SEWER SYSTEM, THE STRAW BALES AND/OR FILTERS CAN BE REMOVED. AFTER ALL GROUND DISTURBING CONSTRUCTION HAS BEEN COMPLETED AND ALL SLOPES ARE 70% ESTABLISHED WITH VEGETATION AND ACCEPTANCE BY THE MERIDIAN RANCH SERVICE DISTRICT, REMAINING CHECK DAMS AND SILT FENCES CAN BE REMOVED. THERE WILL BE ANY OF THE OUTFITS WILL REMAIN AFTER CONSTRUCTION TO REDUCE EROSION OF THE CHANNELS. ALL PERMANENT SWALES WILL BE LINED WITH LANDSCAPING TO SLOW RUNOFF AND FILTER SEDIMENTS.

## OTHER CONTROLS

THERE ARE SEVERAL BEST MANAGEMENT PRACTICES THAT CAN BE EMPLOYED TO PREVENT OR MITIGATE THE SOURCE OF POLLUTANTS AND CONTAMINATION OF STORMWATER RUNOFF. SOME OF THESE ARE:

- \* ALL REFUSE DUMPSTERS AND RECEPTACLES SHALL BE EQUIPPED WITH FUNCTIONAL LIDS TO PREVENT RAIN AND SNOW FROM ENTERING.
- \* STORAGE CONTAINERS, DRUMS AND BAGS SHALL BE STORED AWAY FROM DIRECT TRAFFIC ROUTES TO PREVENT ACCIDENTAL SPILLS.
- \* EMPTY DRUMS SHALL BE COVERED TO PREVENT COLLECTION OF PRECIPITATION.
- \* CONTAINERS SHALL BE STORED ON PALLETS OR OTHER DUNNAGE TO PREVENT CORROSION OF CONTAINERS, WHICH CAN RESULT WHEN CONTAINERS COME IN CONTACT WITH MOISTURE ON THE GROUND.
- \* REGULARLY SCHEDULED REMOVAL OF CONSTRUCTION TRASH AND DEBRIS.
- THE CONTRACTOR IS CERTAINLY NOT LIMITED TO THESE GOOD HOUSEKEEPING MEASURES, AND MAY IMPLEMENT FURTHER CONTROLS AS PRUDENCE AND GOOD JUDGEMENT DEEM NECESSARY.

## INSPECTION AND MAINTENANCE

A THOROUGH INSPECTION OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE PERFORMED EVERY 14 DAYS AS WELL AS AFTER ANY RAIN OR SNOWMELT EVENT THAT CAUSES SURFACE EROSION:

- \* EROSION OF V-NOTCH SWALES, CHANNELS AND SIDE SLOPES SHALL BE REPAIRED.
- \* WHEN THE CHECK DAMS HAVE SiltED UP TO HALF THEIR HEIGHT, THE Silt SHALL BE REMOVED, CHANNEL GRADE REESTABLISHED, AND SIDE SLOPES RE-SEEDED IF NECESSARY. ANY CHECK DAMS THAT HAVE SHAFTE OR DECAYED SHALL BE REPAIRED OR REPLACED.
- \* Silt FENCES SHALL BE CLEANED WHENEVER SEDIMENT HAS REACHED A DEPTH OF 6" AT THE FENCE, AND BROKEN WOODEN PARTS OR TORN FABRIC SHALL BE REPAIRED OR REPLACED.
- \* ANY ACCUMULATED TRASH OR DEBRIS SHALL BE REMOVED FROM ALL TRAPLETS.
- \* IF THE DEPTH OF THE Silt IN THE TRAPLETS IS GREATER THAN THE DEPTH OF THE TRAP, THE TRAP SHALL BE CLEANED OUT AND RESTORED TO ITS ORIGINAL DEPTH. THE OVERFLOW SPILLWAY SHALL BE CLEANED OR REPAIRED AS NECESSARY.
- \* AN INSPECTION AND MAINTENANCE LOG FOLLOWS THIS STORMWATER MANAGEMENT PLAN.

## REVEGETATION AND SEEDING

ALL DISTURBED AREAS SHALL BE REQUIRE SEEDING WITHIN TWO (2) WEEKS FOLLOWING THE ESTABLISHMENT OF FINAL GRADE. AREAS TO RECEIVE PAVEMENT DURING THE CONSTRUCTION OF THE ROAD SYSTEM SHALL NOT RECEIVE ANY SEEDING. SEEDING SHOULD BE ACCOMPLISHED USING AN APPROPRIATE GRASS DRILL, BY BROADCASTING OR BY HYDROMULCHING. IF SEEDING BY THE BROADCAST METHOD IS SELECTED THE APPLICATION RATE SHOULD BE DOUBLED. IF HYDROMULCHING IS SELECTED, TWO OPERATIONS SHALL BE CONSIDERED, SPRING AND FALL. SEED FIRST AND MULCH IN A SECOND OPERATION. UPON COMPLETION OF SEEDING OPERATION, THE SITE SHOULD BE COVERED WITH WOOD FINE MULCH AT A RATE OF 4,000 LBS. PER ACRE. MULCH SHALL BE INSTALLED PER DCM VOLUME 2, FIGURE MU-1, FOUND ON PAGE 3-30.

BELOW IS THE ACCEPTED GRASS MIX FOR SANDY SOILS:

| GRASS              | VARIETY  | AMOUNT IN PLS<br>LBS. PER ACRE |
|--------------------|----------|--------------------------------|
| SIDEOATS GRAMA     | EL RENO  | 3.0                            |
| WESTERN WHEATGRASS | BARTON   | 2.5                            |
| SLENDER WHEATGRASS | NATIVE   | 2.0                            |
| LITTLE BLUESTERN   | PASTURA  | 2.0                            |
| SAND DROPSEED      | NATIVE   | 0.5                            |
| SWITCH GRASS       | NEBRASKA | 3.0                            |
| WEEPING LOVE GRASS | MORPHA   | 1.0                            |

|                                      |                                     |                                      |                                                                                                                  |                                                                                                                           |                                                                                                                              |   |  |  |  |  |
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| <div>Scale</div> <div>AS SHOWN</div> |                                     | <div>Drawn by</div> <div>Loc</div>   | <div>ROLLING HILLS FILING 1<br/>AT MERIDIAN RANCH<br/>GRADING+EROSION CONTROL PLAN</div> <div>DETAIL SHEET</div> | <div><div>MERIDIAN RANCH</div></div> | <div>TECH CONTRACTORS<br/>11886 STAPLETON DRIVE<br/>FALCON, CO 80831<br/>TELEPHONE: 719.495.7444<br/>FAX: 719.495.2457</div> |   |  |  |  |  |
|                                      |                                     | <div>Checked by</div> <div>TAK</div> |                                                                                                                  |                                                                                                                           |                                                                                                                              | 1 |  |  |  |  |
| <div>41 of 42</div>                  | <div>Date</div> <div>NOV 2019</div> | 2                                    |                                                                                                                  |                                                                                                                           |                                                                                                                              |   |  |  |  |  |
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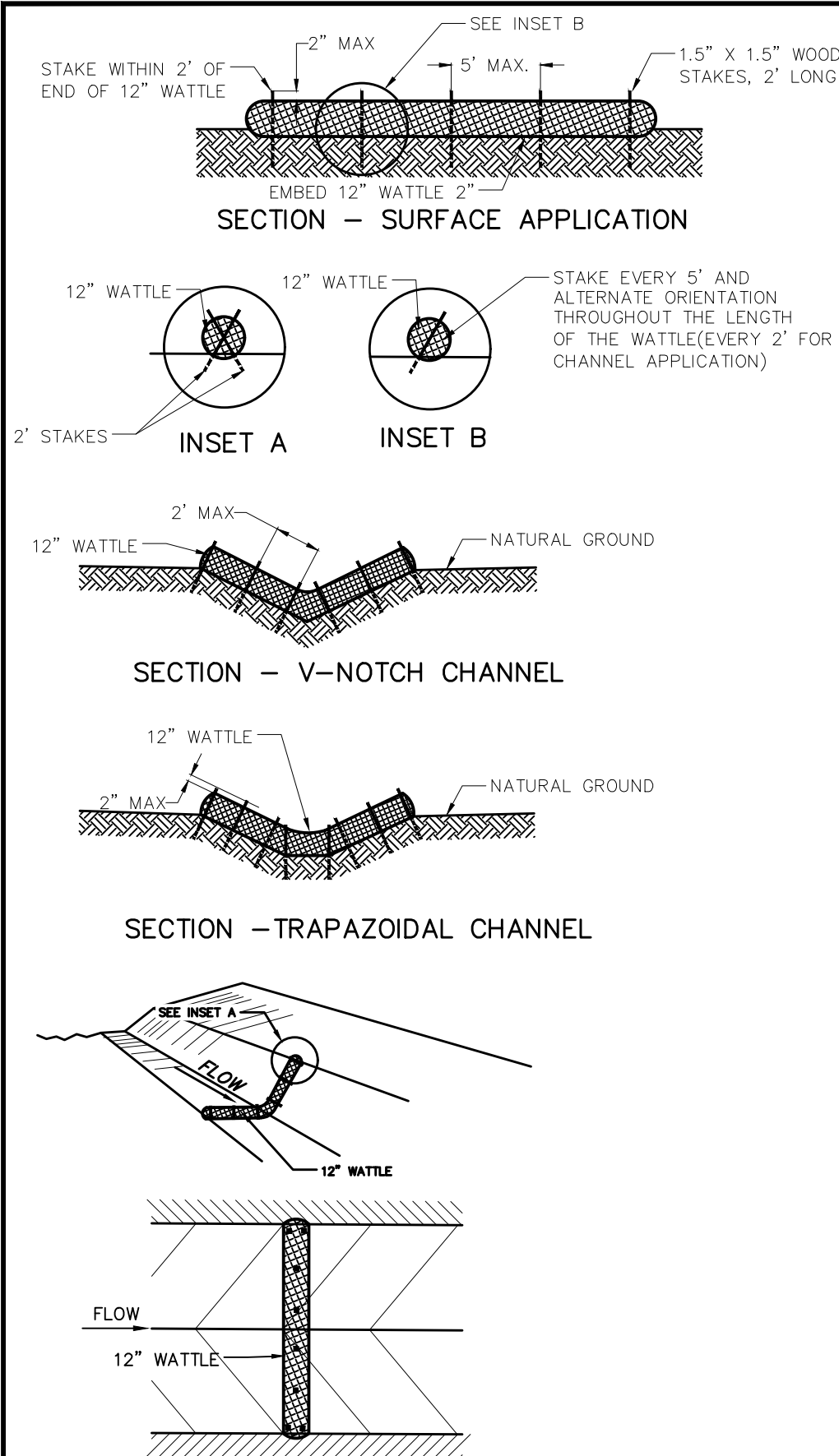
ROLLING HILLS RANCH FILING 1  
AT MERIDIAN RANCH  
GRADING+EROSION CONTROL PLAN

## DETAIL SHEET

|                 |                          |
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| <i>Scale</i>    | <i>Drawn by</i><br>LCG   |
| <b>AS SHOWN</b> | <i>Checked by</i><br>TAK |
| <b>41 of 42</b> | <i>Date</i><br>NOV 2019  |



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BEFORE YOU DIG  
CALL 811**  
OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)



#### NOTES:

USE 2 FT WOODEN STATES WITH A 1.5 IN BY 1.5 IN NOMINAL CROSS SECTION.

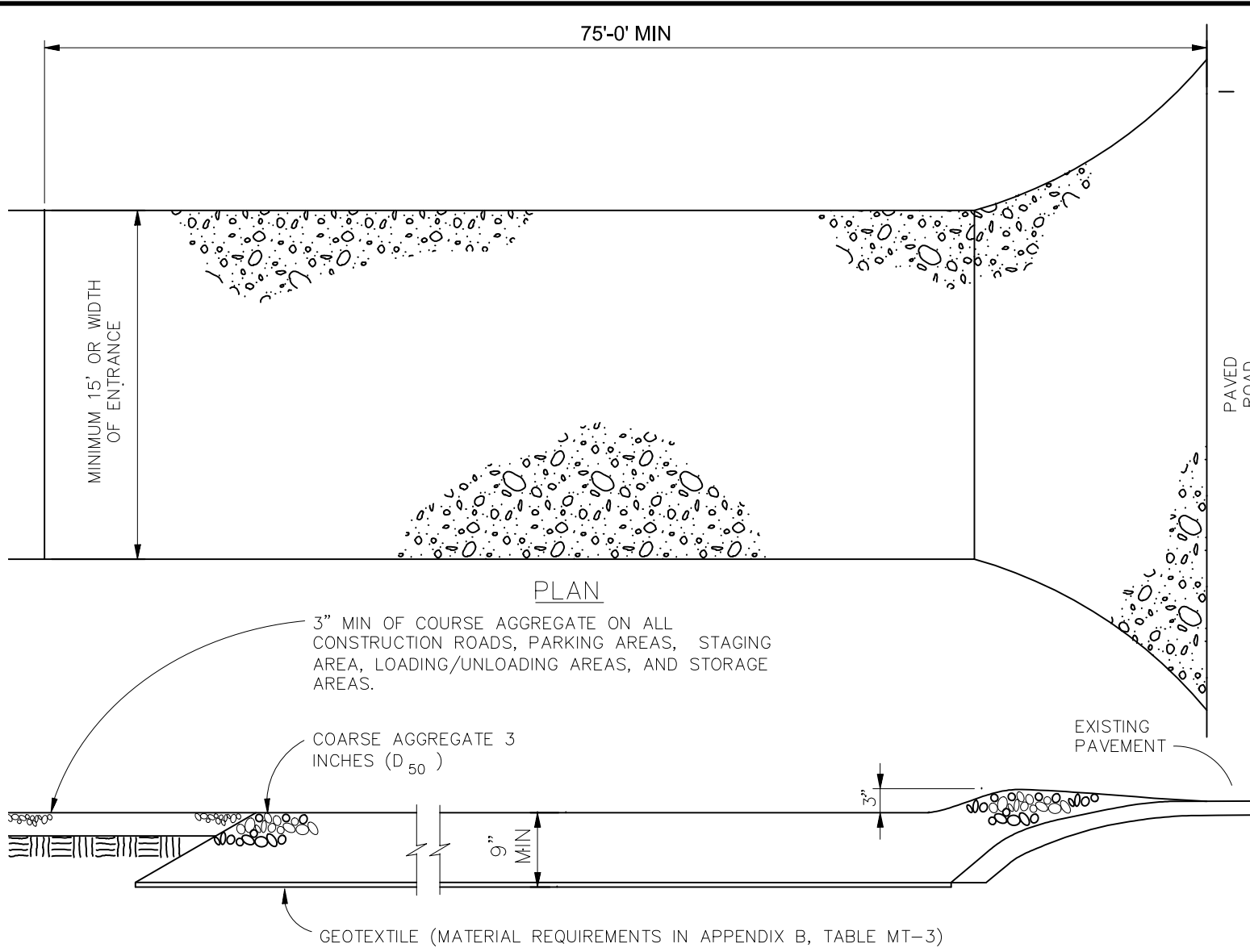
ONLY INSTALL 12" WATTLES TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES OR AS DIRECTED.

REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ONE HALF OF THE EXPOSED LOG HEIGHT. INSPECTIONS SHALL BE PERFORMED FREQUENTLY FOR PROPER FUNCTION.

WHEN MORE THAN ONE EROSION LOG IS NEEDED, ENDS MUST BE TIGHTLY ABUTTED.

WATTLES MAY ALSO BE USED ALONG LONG SLOPES TO REDUCE EROSION AND SEDIMENT VOLUME.

STRAW WATTLES MAY BE USED IN LIEU OF STRAW BALES AND/OR SILT FENCE WITH APPROVAL THE COUNTY, OWNER, ENGINEER, AND SWMP ADMINISTRATOR.

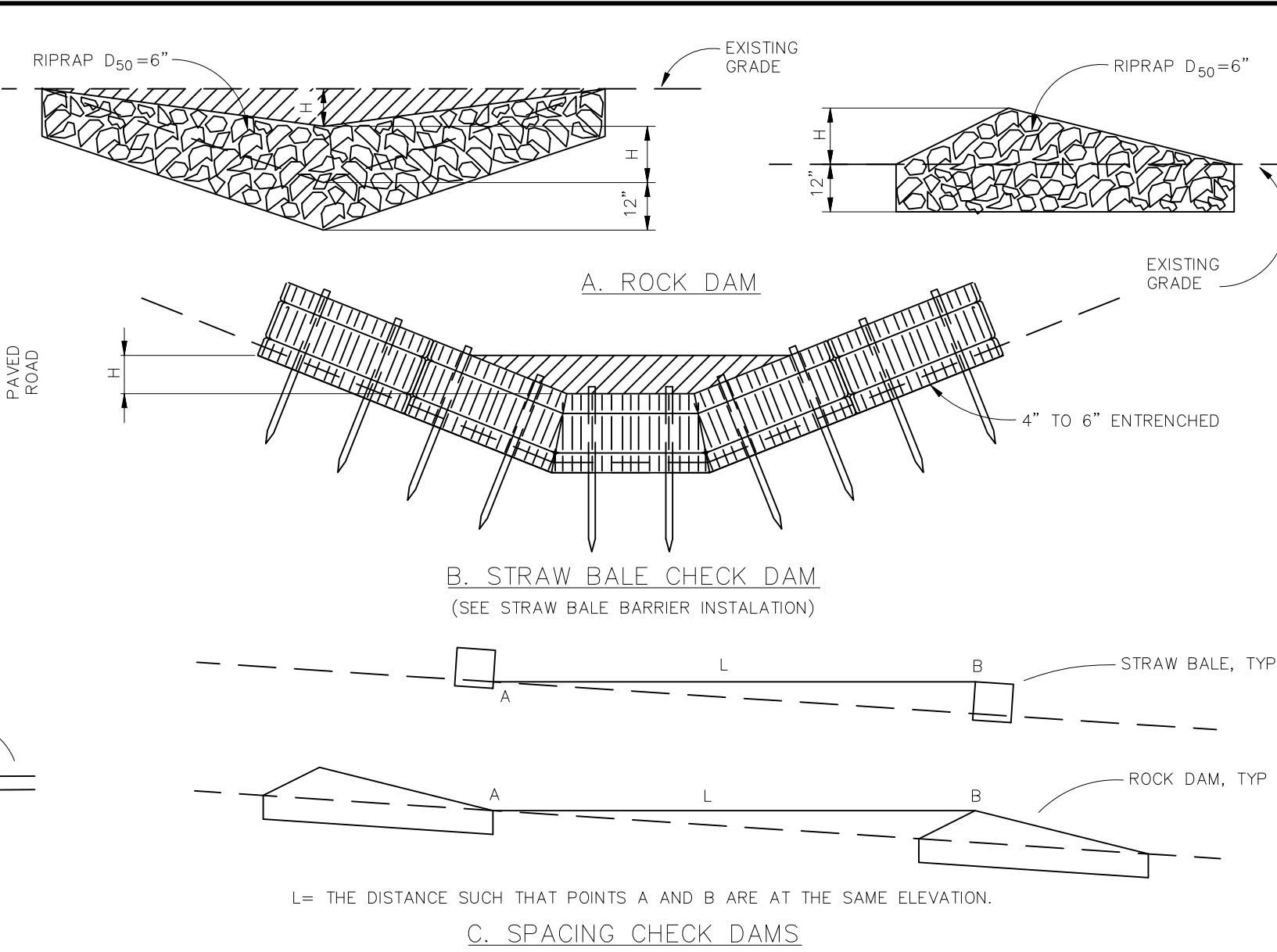
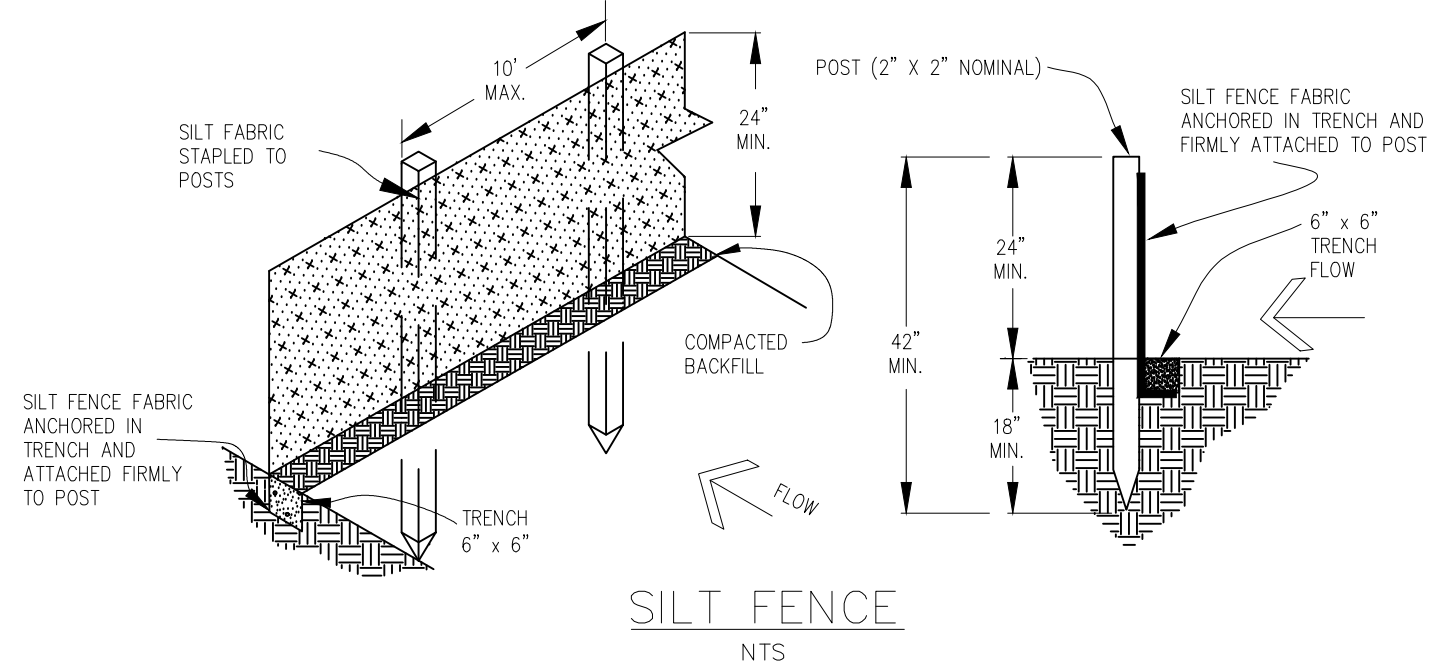


#### INSTALLATION REQUIREMENTS

1. ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION BEGINNING.
2. CONSTRUCTION ENTRANCES ARE TO BE BUILT WITH AN APRON TO ALLOW FOR TURNING TRAFFIC, BUT SHOULD NOT BE BUILT OVER EXISTING PAVEMENT EXCEPT FOR A SLIGHT OVERLAP.
3. AREAS TO BE STABILIZED ARE TO BE PROPERLY GRADED AND COMPACTED PRIOR TO LAYING DOWN GEOTEXTILE AND STONE.
4. CONSTRUCTION ROADS, PARKING AREAS, LOADING/UNLOADING ZONES, STORAGE AREAS, AND STAGING AREAS ARE TO BE STABILIZED.
5. CONSTRUCTION ROADS ARE TO BE BUILT TO CONFORM TO SITE GRADES, BUT SHOULD NOT HAVE SIDE SLOPES OR ROAD GRADES THAT ARE EXCESSIVELY STEEP.

#### MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL STABILIZED AREAS, ESPECIALLY AFTER STORM EVENTS.
2. STONES ARE TO BE REAPPLIED PERIODICALLY AND WHEN REPAIR IS NECESSARY.
3. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED DAILY BY SHOVELING OR SWEEPING. SEDIMENT IS NOT TO BE WASHED DOWN STORM SEWER DRAINS.
4. STORM SEWER INLET PROTECTION IS TO BE IN PLACE, INSPECTED, AND CLEANED IF NECESSARY.
5. OTHER ASSOCIATED SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED TO ENSURE GOOD WORKING CONDITION.

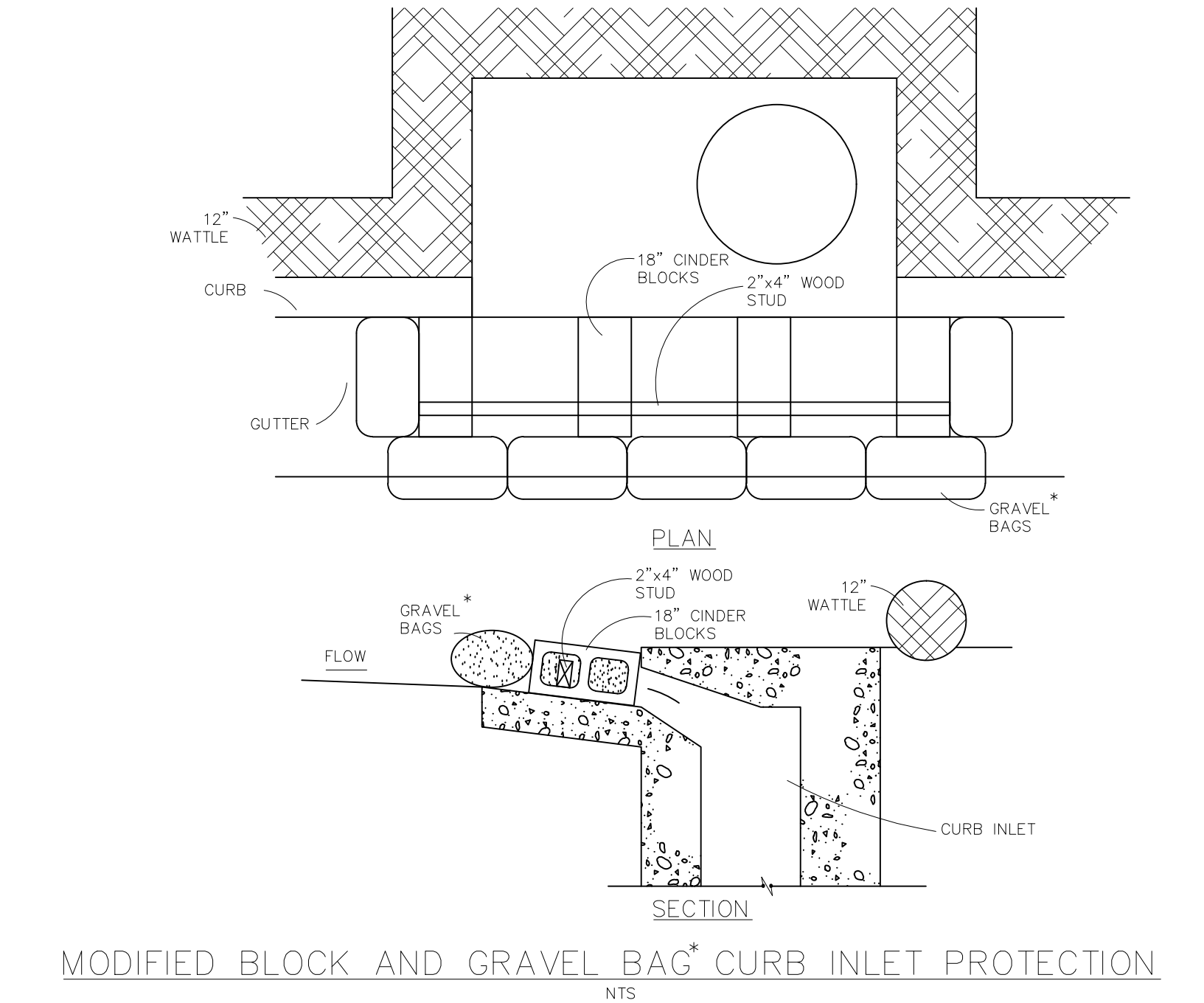


#### INSTALLATION REQUIREMENTS

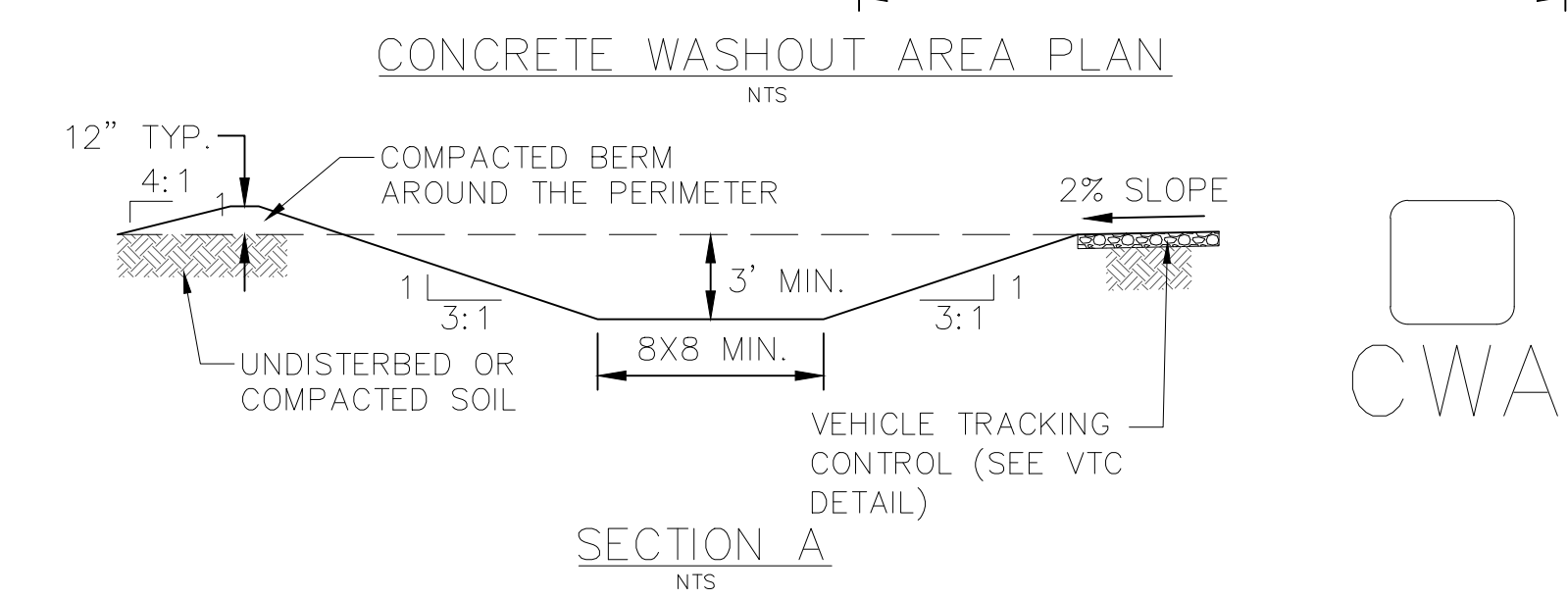
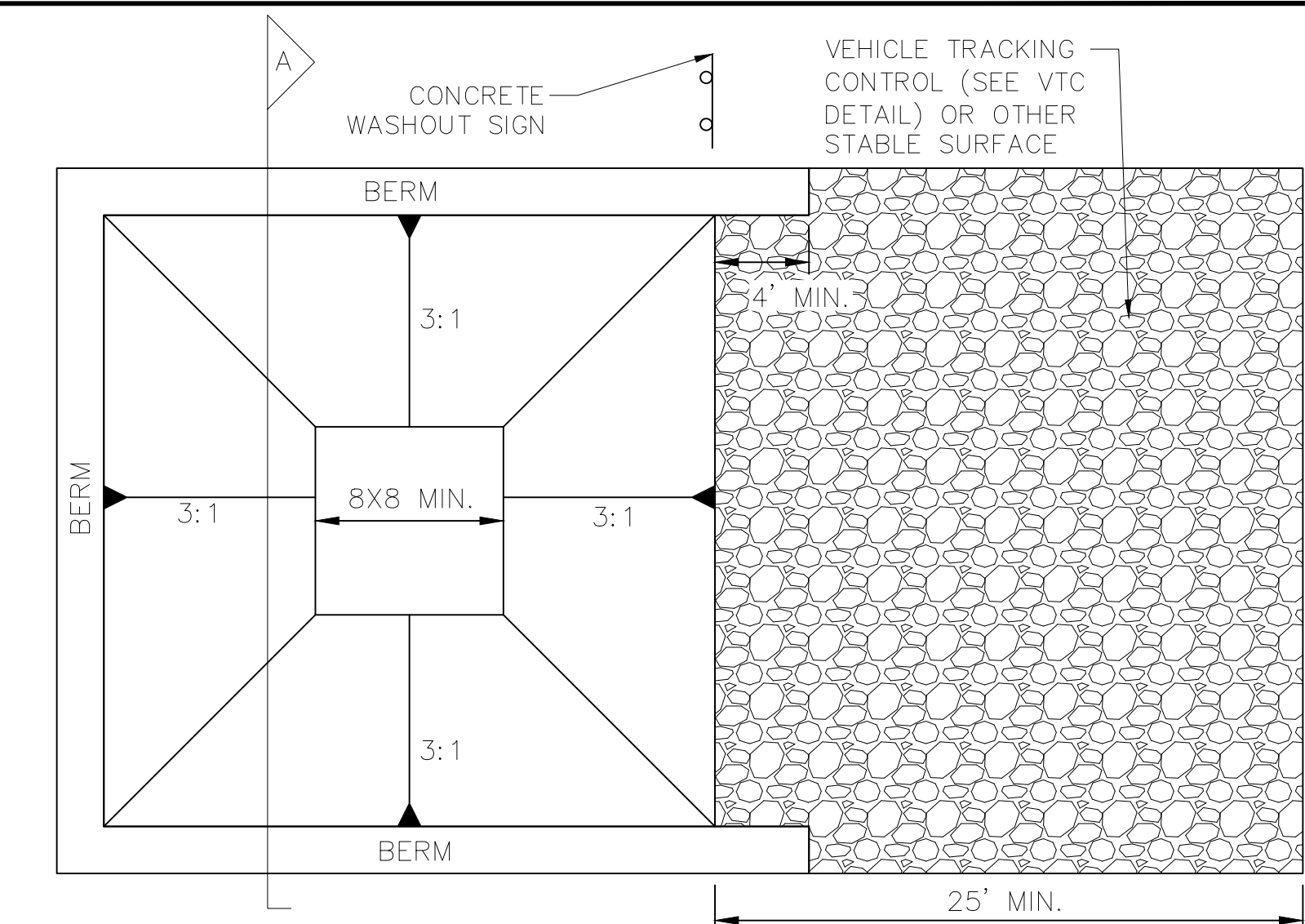
1. STRAW BALES USED AS CHECK DAMS ARE TO MEET THE REQUIREMENTS STATED IN FIGURE SBB-2.
2. THE "H" DIMENSION SHALL BE SELECTED TO PROVIDE WEIR FLOW CONVEYANCE FOR 2-YEAR FLOW OR GREATER.

#### MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL CHECK DAMS, ESPECIALLY AFTER STORM EVENTS.
2. REPLACE STONE AS NECESSARY TO MAINTAIN THE CORRECT HEIGHT OF THE DAM.
3. ACCUMULATED SEDIMENT AND DEBRIS IS TO BE REMOVED FROM BEHIND THE DAMS AFTER EACH STORM OR WHEN 1/2 OF THE ORIGINAL HEIGHT OF THE DAM IS REACHED.
4. CHECK DAMS ARE TO REMAIN IN PLACE AND OPERATIONAL UNTIL THE DRAINAGE AREA AND CHANNEL ARE PERMANENTLY STABILIZED.
5. WHEN CHECK DAMS ARE REMOVED THE CHANNEL LINING OR VEGETATION IS TO BE RESTORED.



\* AN ALTERNATE 3/4" TO 1" GRAVEL FILTER OVER A WIRE SCREEN MAY BE USED IN PLACE OF GRAVEL BAGS. THE WIRE MESH SHALL EXTEND ABOVE THE TOP OF THE CONCRETE BLOCKS AND THE GRAVEL PLACED OVER THE WIRE SCREEN TO THE TOP OF THE CONCRETE BLOCKS.



#### CWA INSTALLATION NOTES:

1. SEE PLAN VIEW FOR CWA INSTALLATION LOCATION.
2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE SHOULD BE USED.
3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' X 8'. SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE A MINIMUM HEIGHT OF 1'.
6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

#### CWA MAINTENANCE NOTES:

1. INSPECT BMPs EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS ACCUMULATED IN PIT SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.
5. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
6. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
7. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOPSOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

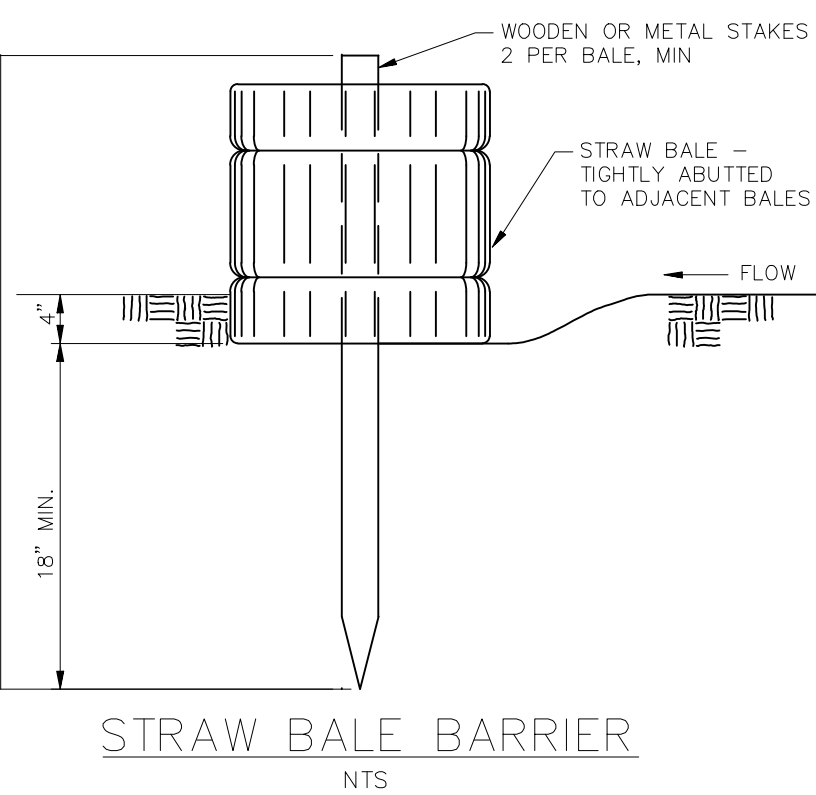
### STRAW BALE BARRIER NOTES

#### INSTALLATION REQUIREMENTS

1. STRAW BALE BARRIERS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
2. BALES SHALL CONSIST OF APPROXIMATELY 5 CUBIC FEET OF CERTIFIED WEED FREE HAY OR STRAW AND WEIGH NOT LESS THAN 35 POUNDS.
3. BALES ARE TO BE PLACED IN A SINGLE ROW WITH THE END OF THE BALES TIGHTLY ABUTTING ONE ANOTHER.
4. EACH BALE IS TO BE SECURELY ANCHORED WITH AT LEAST TWO STAKES AND THE FIRST STAKE IS TO BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.
5. STAKES ARE TO BE A MINIMUM OF 42 INCHES LONG. METAL STAKES SHALL BE STANDARD "T" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD STAKES SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.
6. BALES ARE TO BE BOUND WITH EITHER WIRE OR STRING AND ORIENTED SUCH THAT THE BINDINGS ARE AROUND THE SIDES AND NOT ALONG THE TOPS AND BOTTOMS OF THE BALE.
7. GAPS BETWEEN BALES ARE TO BE CHINKED (FILLED BY WEDGING) WITH STRAW OR THE SAME MATERIAL OF THE BALE.
8. END BALES ARE TO EXTEND UPSLOPE SO THE TRAPPED RUNOFF CANNOT FLOW AROUND THE ENDS OF THE BARRIER.

#### MAINTENANCE REQUIREMENTS

1. CONTRACTOR SHALL INSPECT STRAW BALE BARRIERS IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
2. DAMAGED OR INEFFECTIVE BARRIERS SHALL PROMPTLY BE REPAIRED, REPLACING BALES IF NECESSARY, AND UNENTRENCHED BALES NEED TO BE REPAIRED WITH COMPACTED BACKFILL MATERIAL.
3. SEDIMENT SHALL BE REMOVED FROM BEHIND STRAW BALE BARRIERS WHEN IT ACCUMULATES TO APPROXIMATELY 1/2 THE HEIGHT OF THE BARRIER.
4. STRAW BALE BARRIERS SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.



| No. | Revisions | Date | Init. | Appr. | Date |
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| 2   |           |      |       |       |      |
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| 4   |           |      |       |       |      |

TECH CONTRACTORS  
11886 STAPLETON DRIVE  
FALCON, CO 80831  
TELEPHONE 719.495.7444  
FAX 719.495.2457

**MERIDIAN RANCH**

ROLLING HILLS RANCH FLING 1  
AT MERIDIAN RANCH  
GRADING/EROSION CONTROL PLAN  
DETAIL SHEET

| Drawn by | Loc | Checked by | Tsk | Date     |
|----------|-----|------------|-----|----------|
| AS SHOWN |     |            |     | NOV 2019 |

| Scale | 42 of 42 |
|-------|----------|
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