

UTILITY CONTACTS:

WATER – MERIDIAN SERVICE METROPOLITAN DISTRICT
POC: BRADEN McCRORY
(719)–495–6567

SANITARY SEWER – MERIDIAN SERVICE METROPOLITAN DISTRICT
POC: BRADEN McCRORY
(719)–495–6567

DRAINAGE – EL PASO COUNTY PCD/INSPECTIONS
(719)–520–6300

DRAINAGE – MERIDIAN SERVICE METROPOLITAN DISTRICT
POC: TOM KERBY
(719)–495–7444

GAS – BLACK HILLS ENERGY
(719)–393–6625

ELECTRIC – MOUNTAIN VIEW ELECTRIC ASSOC.
(719)–495–2283

GEOTECHNICAL ENGINEER – ENTECH ENGINEERING, INC.
(719)–531–5599

FALCON FIRE PROTECTION DISTRICT
(719) 495–4050

CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOW ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER 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.

LEGAL DESCRIPTION:

KNOW ALL MEN BY THESE PRESENTS:
THAT GTL, INC. DBA GTL DEVELOPMENT, INC., THEODORE TCHANG, PRESIDENT BEING THE OWNER OF THE FOLLOWING DESCRIBED TRACT OF LAND:

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

BEGINNING AT A POINT ON THE EASTERLY RIGHT-OF-WAY OF ESTATE RIDGE DRIVE AS-DEDICATED IN THE ESTATES AT ROLLING HILLS RANCH FILING NO. 2, RECORDED WITH RECEPTION NO. 222714944 IN THE RECORDS OF EL PASO COUNTY, POINT BEING ON THE EASTERN BOUNDARY LINE OF SAID FILING;

THE FOLLOWING FIVE (5) COURSES ARE ON SAID BOUNDARY LINE:

1. THENCE N07°26'02"E A DISTANCE OF 616.00 FEET;
2. THENCE N52°26'02"E A DISTANCE OF 31.11 FEET;
3. THENCE N07°26'02"E A DISTANCE OF 60.00 FEET;
4. THENCE S82°33'58"E A DISTANCE OF 168.00 FEET;
5. THENCE N07°26'02"E A DISTANCE OF 120.00 FEET;
6. THENCE S82°33'58"E A DISTANCE OF 1005.00 FEET;
7. THENCE N83°02'50"E A DISTANCE OF 125.64 FEET;
8. THENCE N76°59'35"E A DISTANCE OF 60.00 FEET TO A NON-TANGENT CURVE TO THE RIGHT;
9. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 430.00 FEET, A DELTA ANGLE OF 20°28'26", AN ARC LENGTH OF 153.41 FEET, WHOSE LONG CHORD BEARS S02°47'11"E A DISTANCE OF 152.59 FEET;
10. THENCE S37°33'58"E A DISTANCE OF 31.11 FEET TO A NON-TANGENT CURVE TO THE LEFT;
11. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 320.00 FEET, A DELTA ANGLE OF 28°52'23", AN ARC LENGTH OF 166.84 FEET, WHOSE LONG CHORD BEARS N82°29'50"E A DISTANCE OF 164.96 FEET;
12. THENCE N67°33'39"E A DISTANCE OF 278.06 FEET;
13. THENCE N22°33'39"E A DISTANCE OF 31.11 FEET;
14. THENCE N22°26'21"W A DISTANCE OF 103.00 FEET;
15. THENCE N67°33'39"E A DISTANCE OF 230.00 FEET;
16. THENCE N64°41'54"E A DISTANCE OF 100.12 FEET;
17. THENCE N67°33'39"E A DISTANCE OF 215.00 FEET;
18. THENCE N69°55'18"E A DISTANCE OF 97.94 FEET;
19. THENCE N77°08'32"E A DISTANCE OF 97.44 FEET;
20. THENCE N87°17'03"E A DISTANCE OF 98.28 FEET;
21. THENCE N89°46'57"E A DISTANCE OF 225.24 FEET;
22. THENCE S00°13'03"E A DISTANCE OF 99.94 FEET;
23. THENCE N89°46'57"E A DISTANCE OF 160.00 FEET TO A POINT ON THE WESTERN BOUNDARY OF FALCON REGIONAL PARK RECORDED WITH RECEPTION NO. 214093227;

THE FOLLOWING COURSE IS ON SAID BOUNDARY LINE:

24. THENCE S00°13'03"E A DISTANCE OF 769.32 FEET TO A NON-TANGENT CURVE TO THE LEFT, POINT BEING ON THE NORTHERN BOUNDARY OF THE SANCTUARY FILING NO. 1 AT MERIDIAN RANCH RECORDED WITH RECEPTION NO. 223715140 IN THE RECORDS OF EL PASO COUNTY;

THE FOLLOWING NINE (9) COURSES ARE ON THE BOUNDARY LINE OF SAID THE SANCTUARY FILING NO. 1 AT MERIDIAN RANCH:

25. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 2050.00 FEET, A DELTA ANGLE OF 03°02'20", AN ARC LENGTH OF 180.29 FEET, WHOSE LONG CHORD BEARS S75°52'06"W A DISTANCE OF 180.23 FEET;
26. THENCE N62°31'53"W A DISTANCE OF 31.42 FEET;
27. THENCE S71°53'44"W A DISTANCE OF 60.00 FEET;
28. THENCE S26°19'21"W A DISTANCE OF 31.42 FEET TO A NON-TANGENT CURVE TO THE LEFT;
29. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 2050.00 FEET, A DELTA ANGLE OF 02°03'13", AN ARC LENGTH OF 73.48 FEET, WHOSE LONG CHORD BEARS S69°24'55"W A DISTANCE OF 73.48 FEET;
30. THENCE S68°23'18"W A DISTANCE OF 399.50 FEET TO A POINT OF CURVE TO THE RIGHT;
31. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 1930.00 FEET, A DELTA ANGLE OF 29°02'43", AN ARC LENGTH OF 978.39 FEET, WHOSE LONG CHORD BEARS S82°54'40"W A DISTANCE OF 977.95 FEET;
32. THENCE N82°33'58"W A DISTANCE OF 1387.37 FEET;
33. THENCE N37°33'58"W A DISTANCE OF 31.11 FEET TO THE POINT OF BEGINNING;

THE ABOVE PARCEL OF LAND CONTAINS 60.700 ACRES, MORE OR LESS.

BASIS OF BEARING

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).



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)

BENCH MARK

1) MRR01 – 3 1/4" ALUMINUM CAP ON NO.8 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 LONDONDERRY 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'

WATER AND SANITARY SEWER APPROVALS:

JIM NIKKEL, GENERAL MANAGER
MERIDIAN SERVICE METROPOLITAN DISTRICT

DATE

DISTRICT ENGINEER:

Thomas A. Kerby

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

July 16, 2024

DATE

DEVELOPERS STATEMENT:

DEVELOPERS STATEMENT:

THE UNDERSIGNED DEVELOPER HAS READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN AND ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

Raul Guzman
RAUL GUZMAN, VICE PRESIDENT
GTL DEVELOPMENT, INC.

7/25/2024
DATE

OWNERS STATEMENT:

OWNERS STATEMENT:

THE UNDERSIGNED OWNER HAS READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN AND ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

Raul Guzman
RAUL GUZMAN, VICE PRESIDENT
GTL DEVELOPMENT, INC.

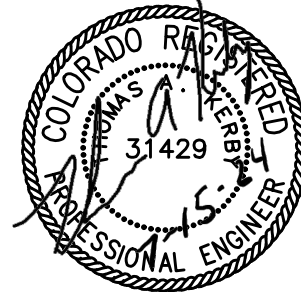
RAUL GUZMAN, VICE PRESIDENT
MERIDIAN RANCH INVESTMENTS, INC.

7/25/2024
DATE

DESIGN ENGINEER'S STATEMENT:

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



AS-BUILT DRAWINGS
Thomas A. Kerby
9/8/2026

EL PASO COUNTY:

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

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

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

Gilbert LaForce, P.E.
Region: Authorized signatory as County Engineer desires
Date: 2024.09.03 16:21:57-0600

9/3/2024

JOSHUA PALMER, P.E.
COUNTY ENGINEER / ECM ADMINISTRATOR

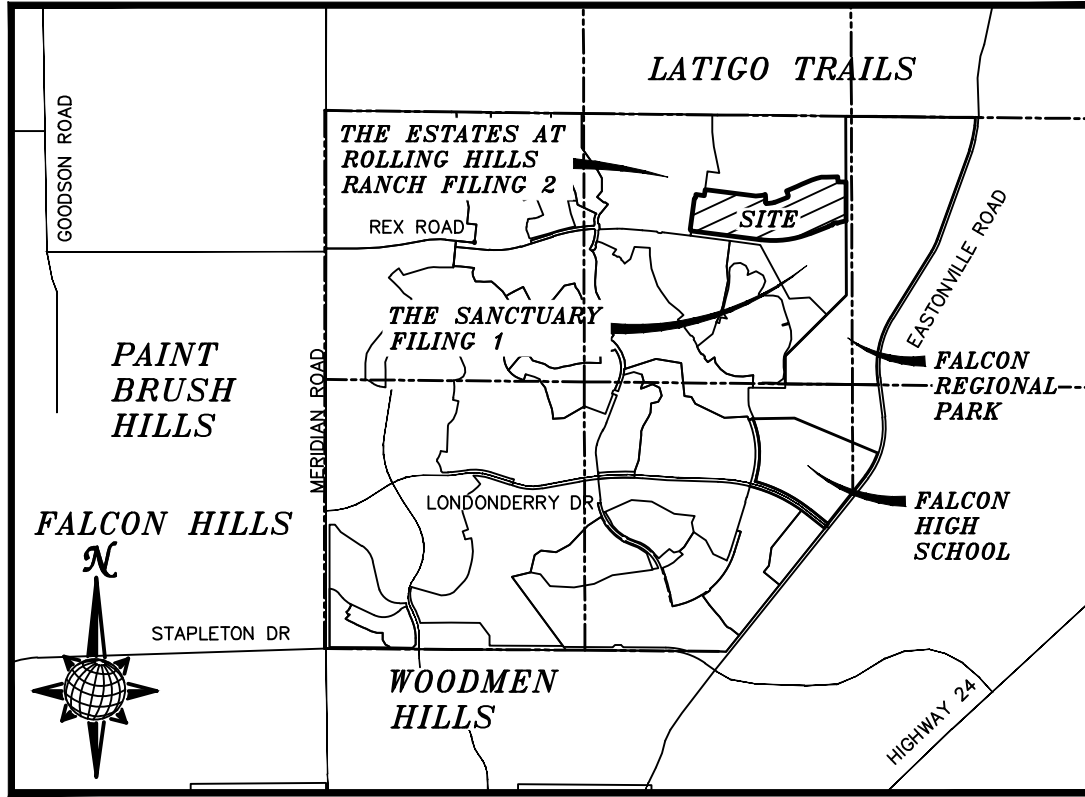
DATE

CONSTRUCTION DRAWINGS FOR ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH

IMPROVEMENT PLANS

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

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



VICINITY MAP N.T.S.

SHEET NO	SHEET INDEX	SHEET NO	SHEET INDEX
1	COVER SHEET	17	CRYSTAL FALLS DRIVE
2	INDEX SHEET	18	SHELTER CREEK DRIVE
3	NOTES SHEET	19	SIDEWALK & STRIPING PLAN
4-5	DETAIL SHEETS	20	OVERALL SANITARY SEWER
6-7	SUNRISE RIDGE DRIVE	21-22	OVERALL SANITARY SEWER SERVICES
8	SUNRISE RIDGE DRIVE & STORM #1	23	OVERALL UNDERDRAIN
9	REDWALL DRIVE & HORN HILL DRIVE	24	UNDERDRAIN DETAILS
10	HORN HILL DRIVE & GALEROS DRIVE	25	OVERALL WATER
11	GALEROS DRIVE & STORM #2	26-27	OVERALL WATER SERVICES
12	TEMPLE BUTTE DRIVE	28	OVERALL STORM DRAIN
13	BRIGHT ANGEL DRIVE	29	GRADING INDEX SHEET
14	TAPEATS DRIVE & SS #1	30-34	GRADING LAYOUT SHEETS
15	HOUSE ROCK DRIVE	35	GRADING LAYOUT CUT-FILL SHEET
16	HOUSE ROCK DRIVE & CARDENAS DRIVE	36-37	GRADING DETAIL SHEET

Scale		Drawn by	Log	Checked by	TAK	Date	ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS COVER SHEET				TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444				EXISTING UTILITIES SHOWN(SH1,20, 25,26,28,30,35), SW NOTES(SH18), STRIPING NOTES(SH19)				10/17/24	LOG
AS SHOWN																				TAK
1 of 37																				

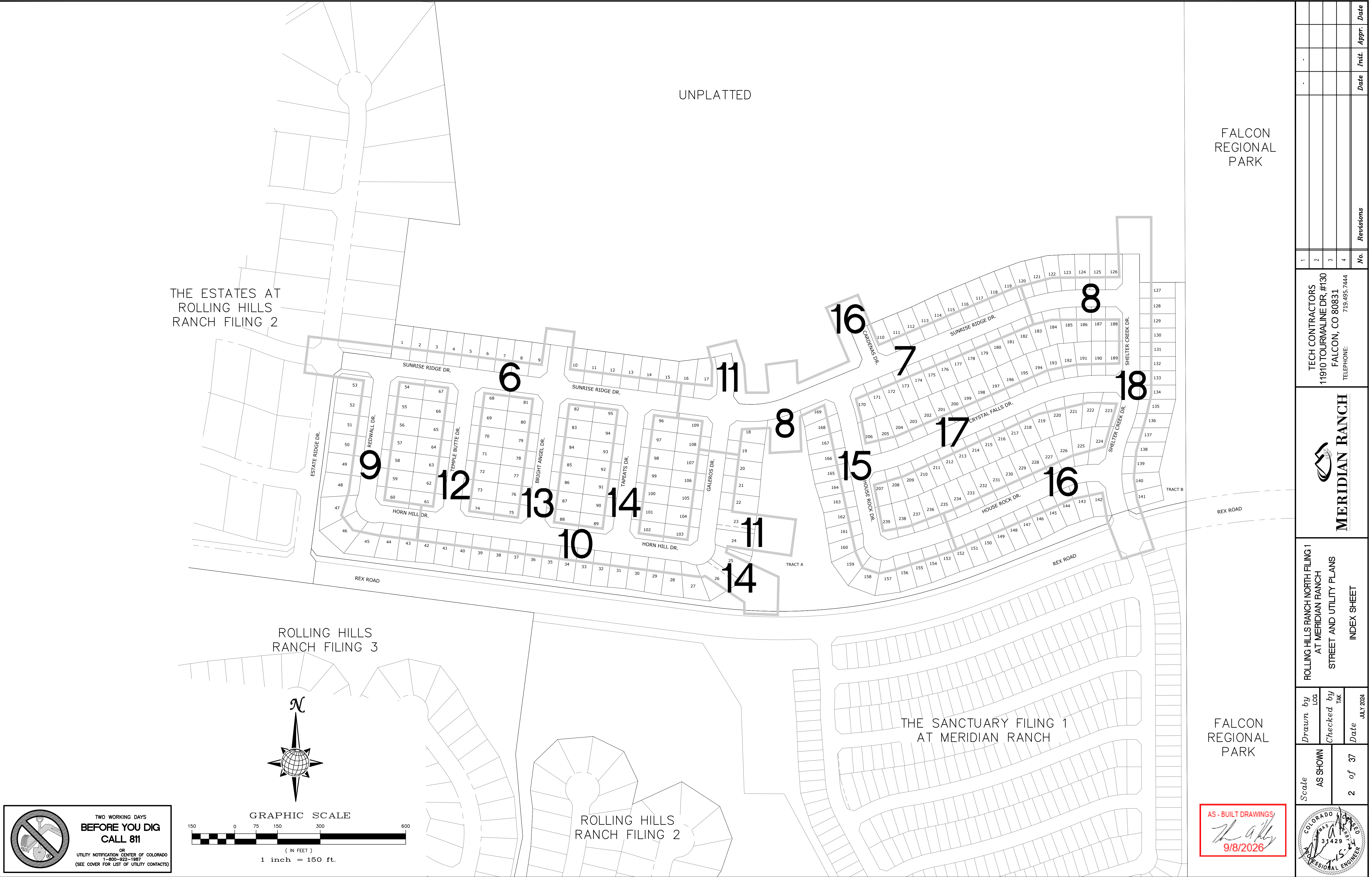


ROLLING HILLS RANCH NORTH FILING 1
AT MERIDIAN RANCH
STREET AND UTILITY PLANS
COVER SHEET

Scale
AS SHOWN
1 of 37
Date
JULY 2024

Revisions
Date
Init.
Appr.

S:\OneDrive\Civil\Proj\Rolling Hills Ranch North Filing 1\DWG\PLAN SHEETS\Improvement Plans\01-RHRN1.dwg, 7/16/2024 8:06:39 AM



GENERAL NOTES

- # SANITARY SEWER NOTES

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 THE CUTOUT TO BE RECOVERED SHALL BE IDENTIFIED. SEWER SERVICE CORE CUTOUTS MUST BE RECOVERED AND IDENTIFIED. IF THE SEWER SERVICE CORE CUTOUT IS NOT RECOVERED, THE SEWER MAIN IS REQUIRED TO BE RECOVERED. 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 EQUIVAL AND HAVE A MINIMUM COVER DEPTH OF 5'-6" INSTALLED WITH A COATED 12 GAUGE U.F. TRACER WIRE TO EACH MANUFACTURER'S MINIMUM LINE PUSH-ON WYES FOR SANITARY SEWER LATERAL CONNECTIONS TO THE MAIN. SANITARY SEWER MAINS SHALL BE APPROPRIATELY SADDLED AND MAY ONLY BE USED FOR SANITARY SEWER MAINS. ALL LOTS SHALL REQUIRE 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 EACH END OF THE SERVICE LOCATION TO THE SURFACE ABOVE THE COATED 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 1/4" 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 STOP VALVES SHALL BE AY MCDONALD MODEL NUMBER 747018-33 FOR SDR HDPE SAME SIZE AS THE WATER SERVICE. ALL CURB STOP VALVES SHALL BE 3/4" 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 3/4" 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 3/4" UNLESS OTHERWISE NOTED ON THE PLANS. ALL 1" DIAMETER WATER SERVICES SHALL RECEIVE A 1" INLET BY 3/4" 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 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 (PART # 272ND-023XX-0010B-AN) OPEN RIGHT WITH A 3/4" 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 1/2" NST (NATIONAL STANDARD THREAD) SIDE NOZZLES. HYDRANT SHALL BE PAINTED WITH RUSTOLEUM SAFETY YELLOW.
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 WITH 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 END. 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 END. 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:

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 BE RE-FLUSHED AND RE-CHLORINATED. 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 PRESSURE 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 SOP (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 BOLTS. 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.



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.

- 7.17 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.]

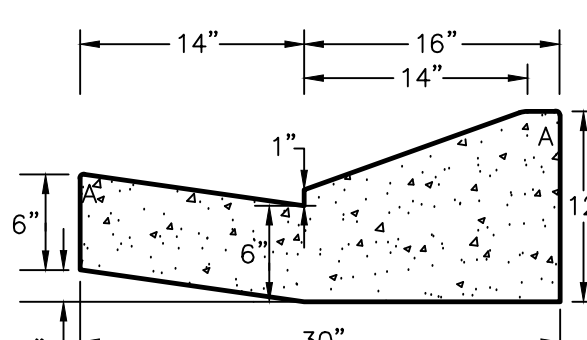
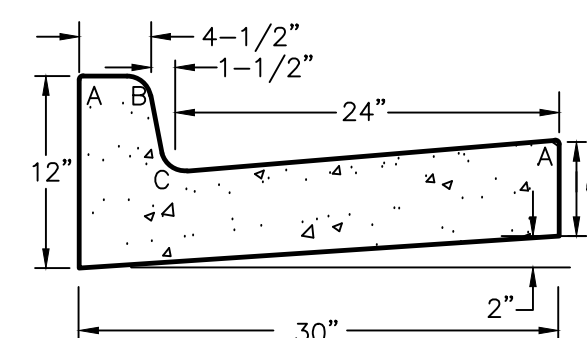
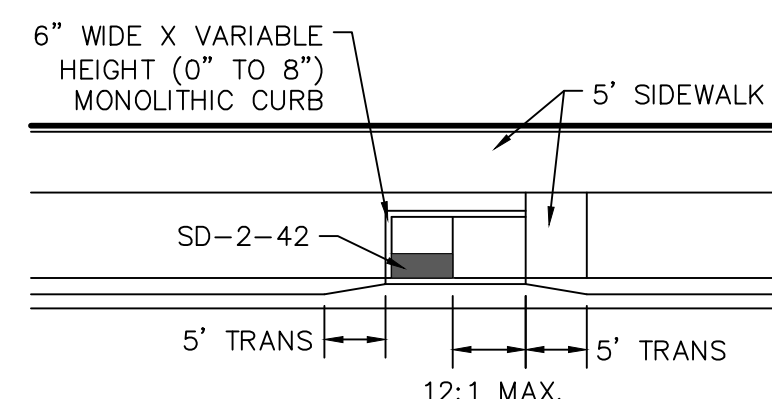
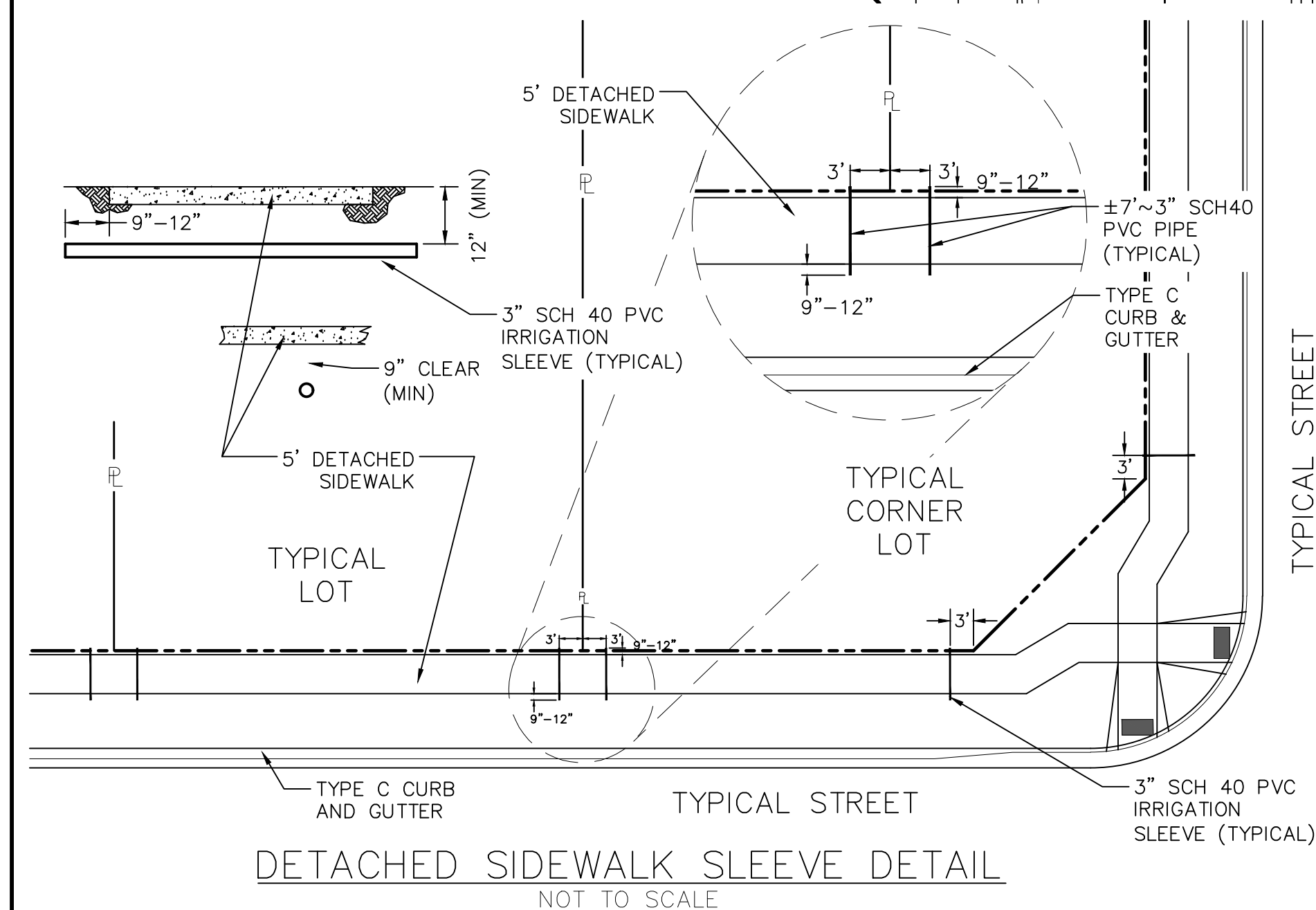
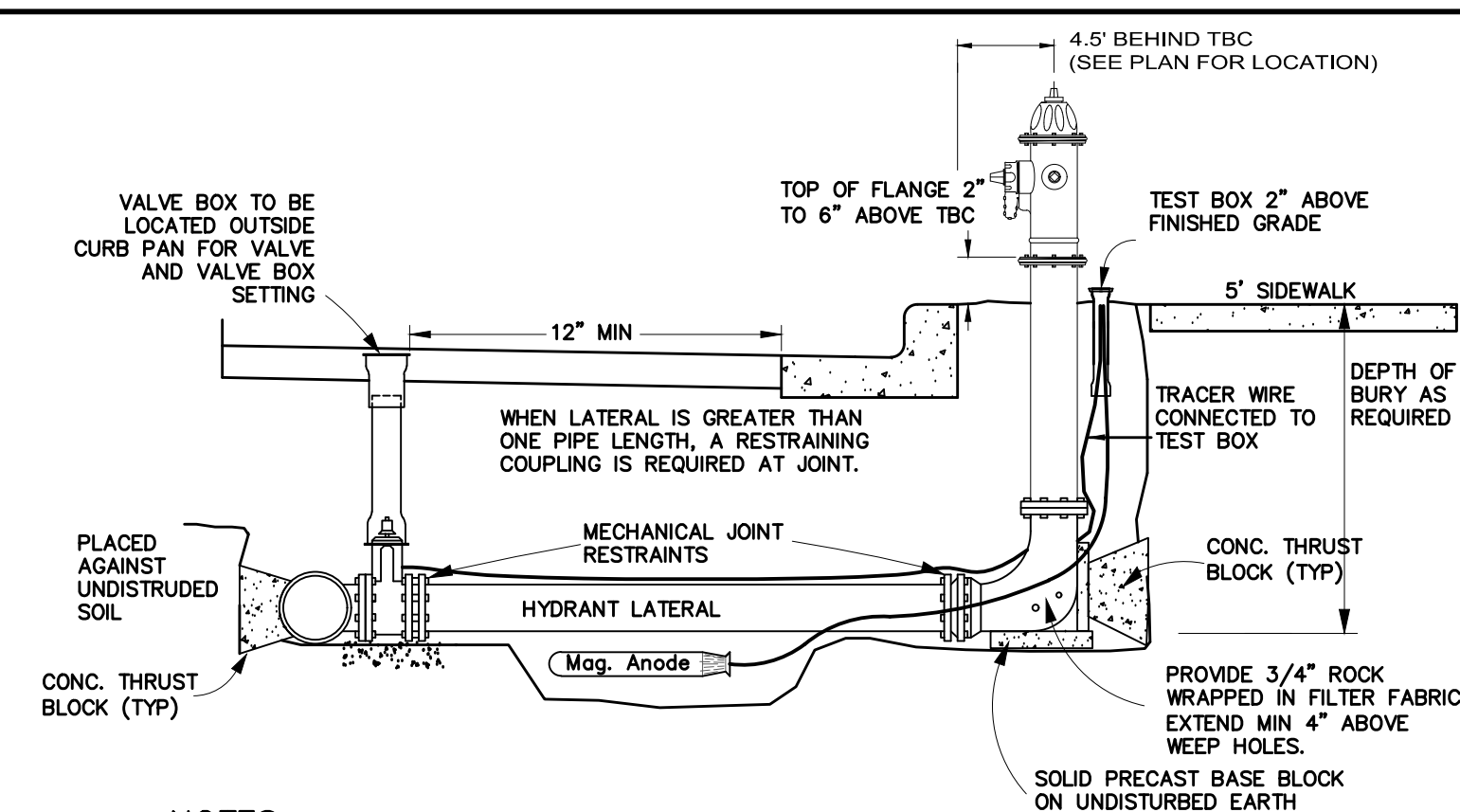
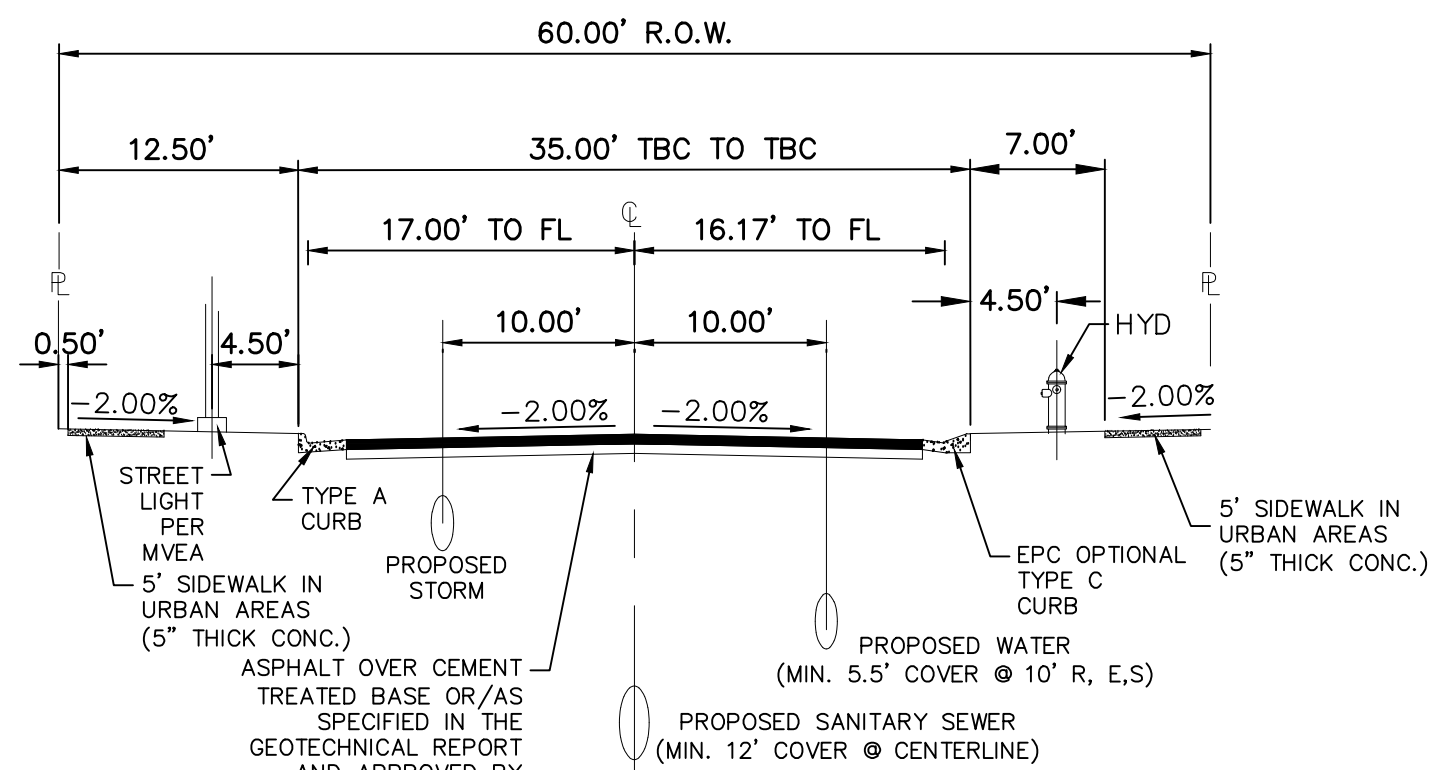
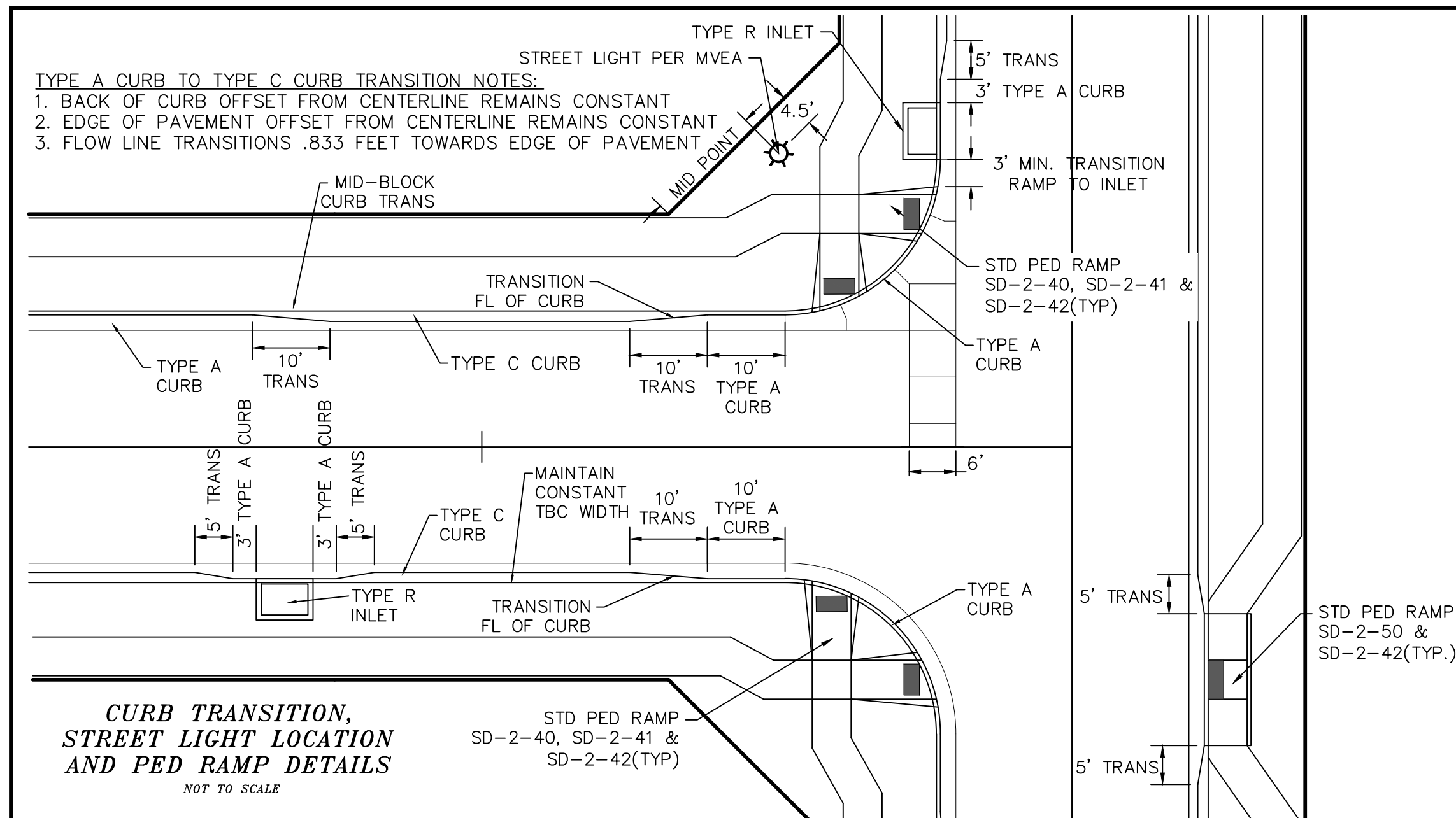
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS.

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.

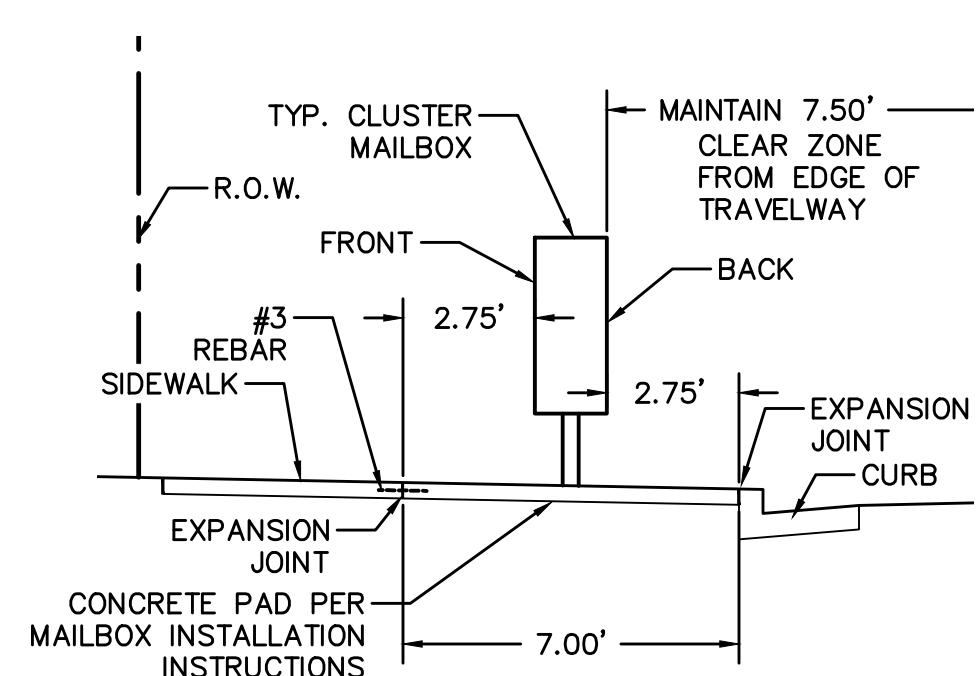
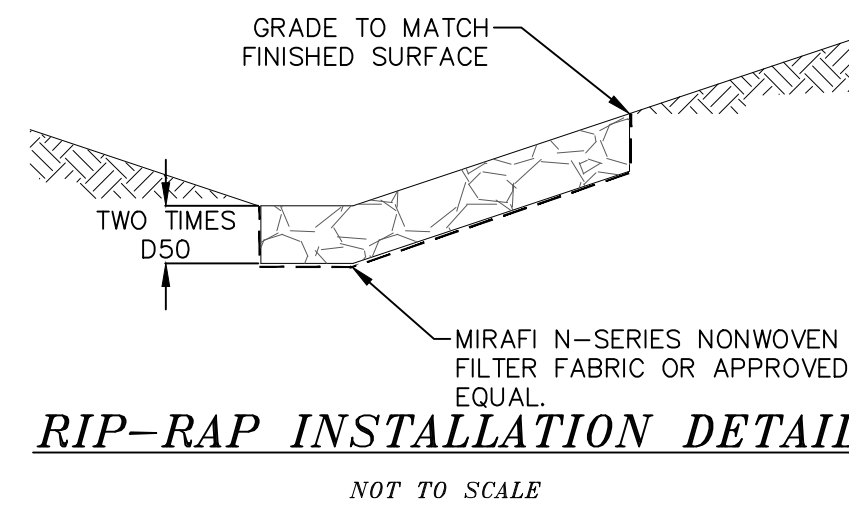
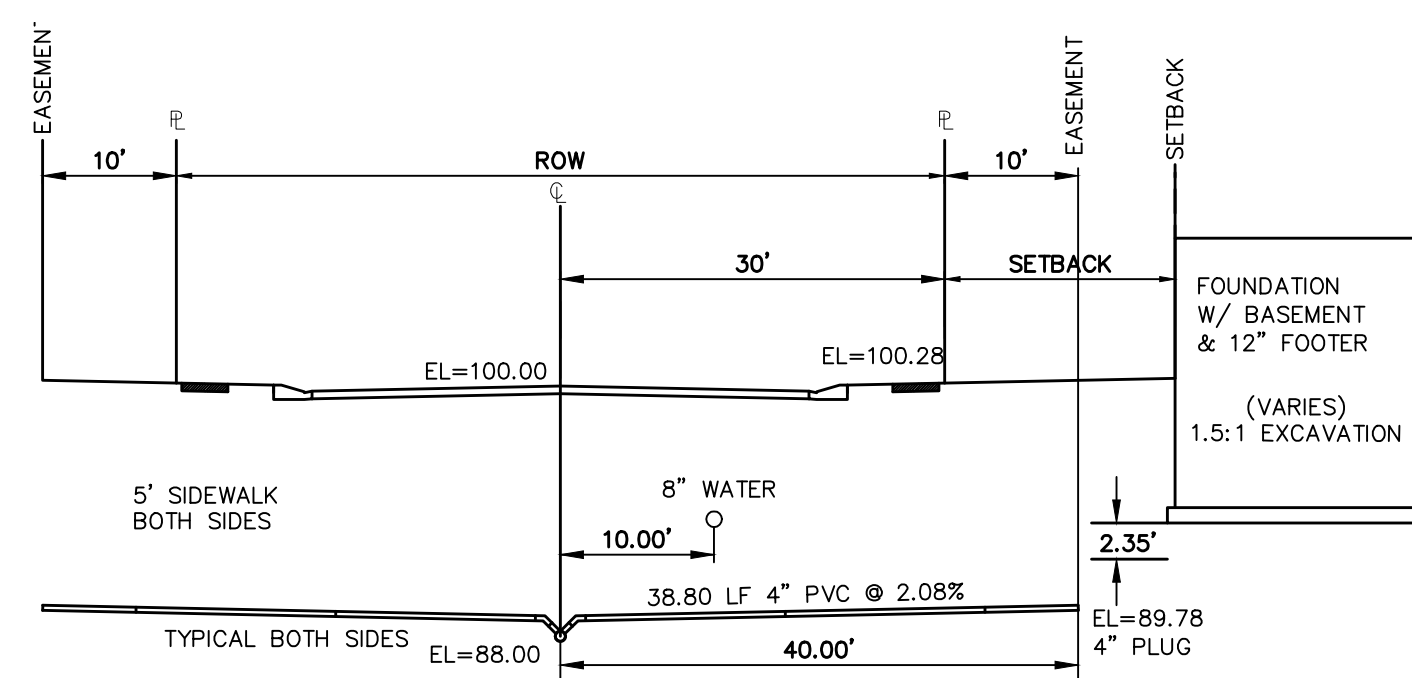
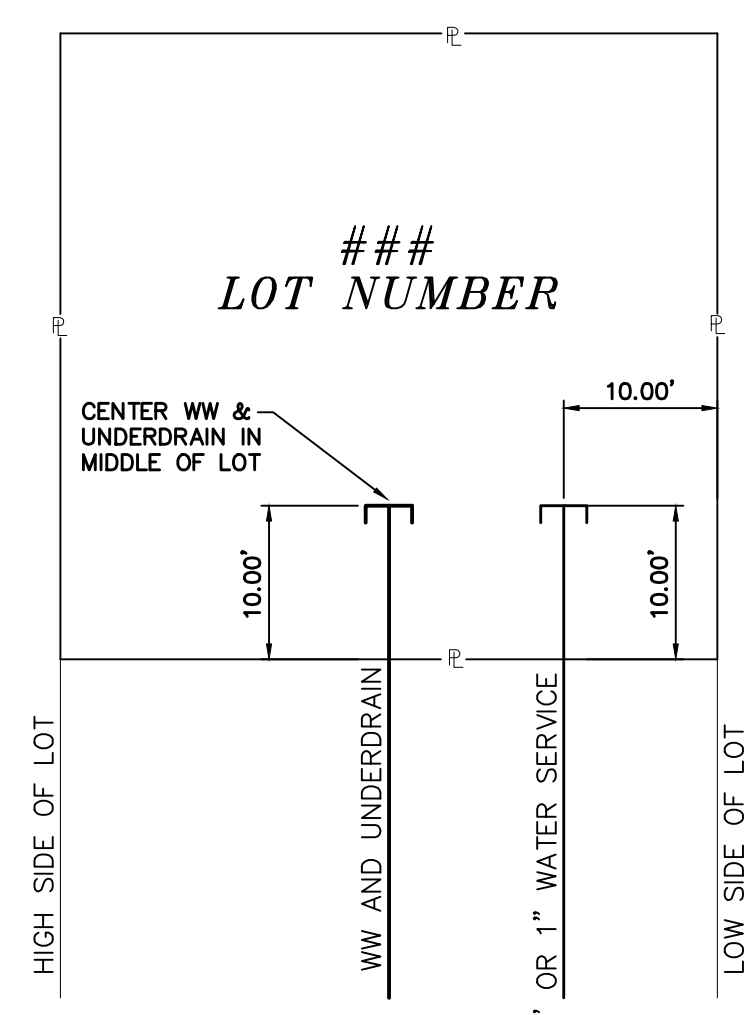
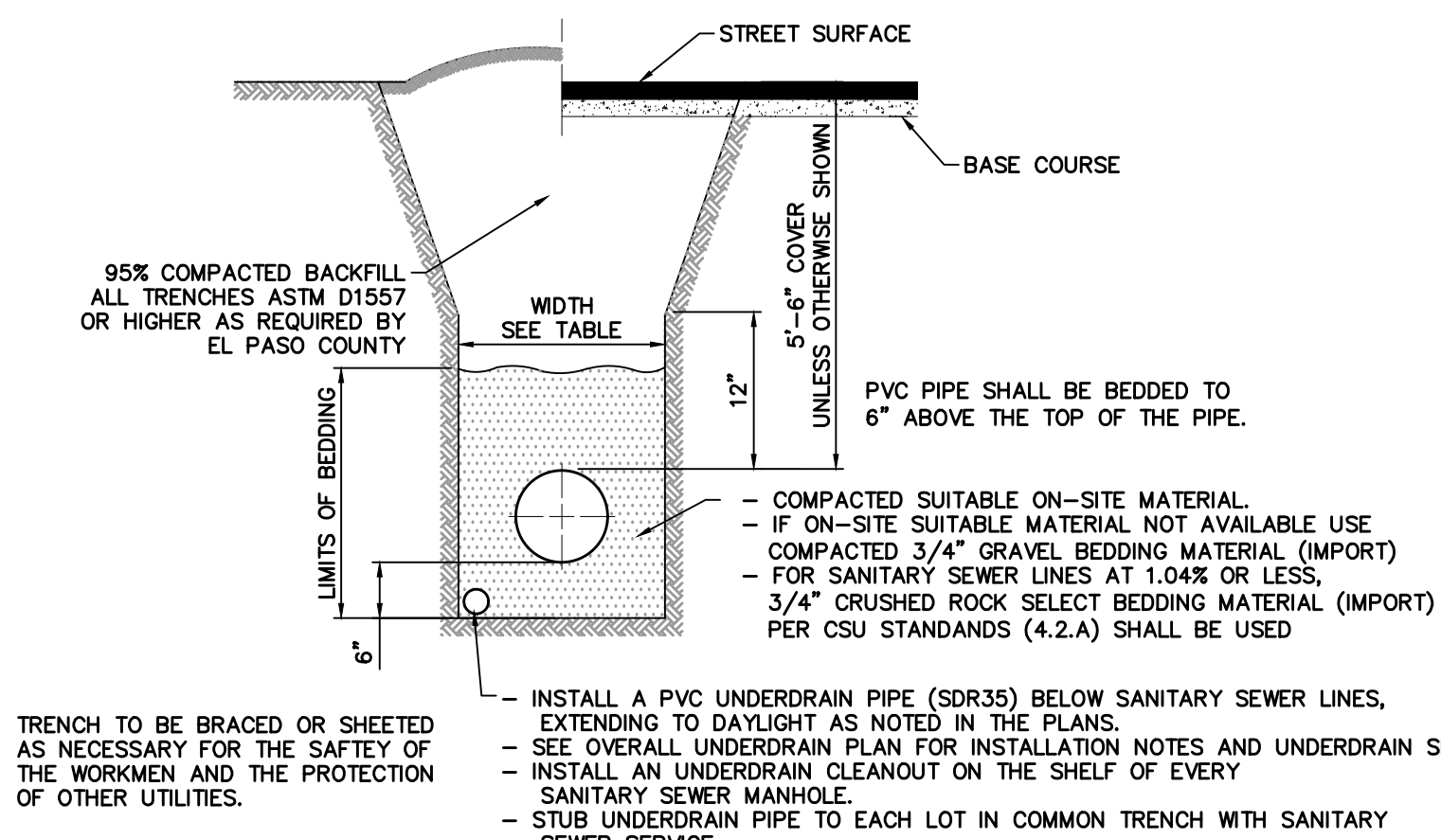
GENERAL NOTES:

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.

- AS - BUILT DRAWINGS
Th. A. H. by
 9/8/2026



PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM 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"



LEGEND	
<u>SYMBOL</u>	<u>DESCRIPTION</u>
	RCP W/FES
	INLET
	SDMH
	ST
	SS
	SSMH
	WM
	GV
	BV
	BOV
	HYD ASSY
	TEE W/GV
	ATT SW
	STANDARD PEDESTRIAN RAMP PER SD-2-40 & M-608-1 (SH 6 OF 6)
	ANODE (CATHODIC PROTECTION)
	TS
	HB
	SF
	EXIST
	LOT NUMBERS
	CROSS PASS PER SD-
	STREET LIGHT PER MOUNTAIN VIEW ELECTRIC ASSOCIATION (MVEA)
	R1-1
	EXISTING CONTOUR (10')
	EXISTING CONTOUR (2')

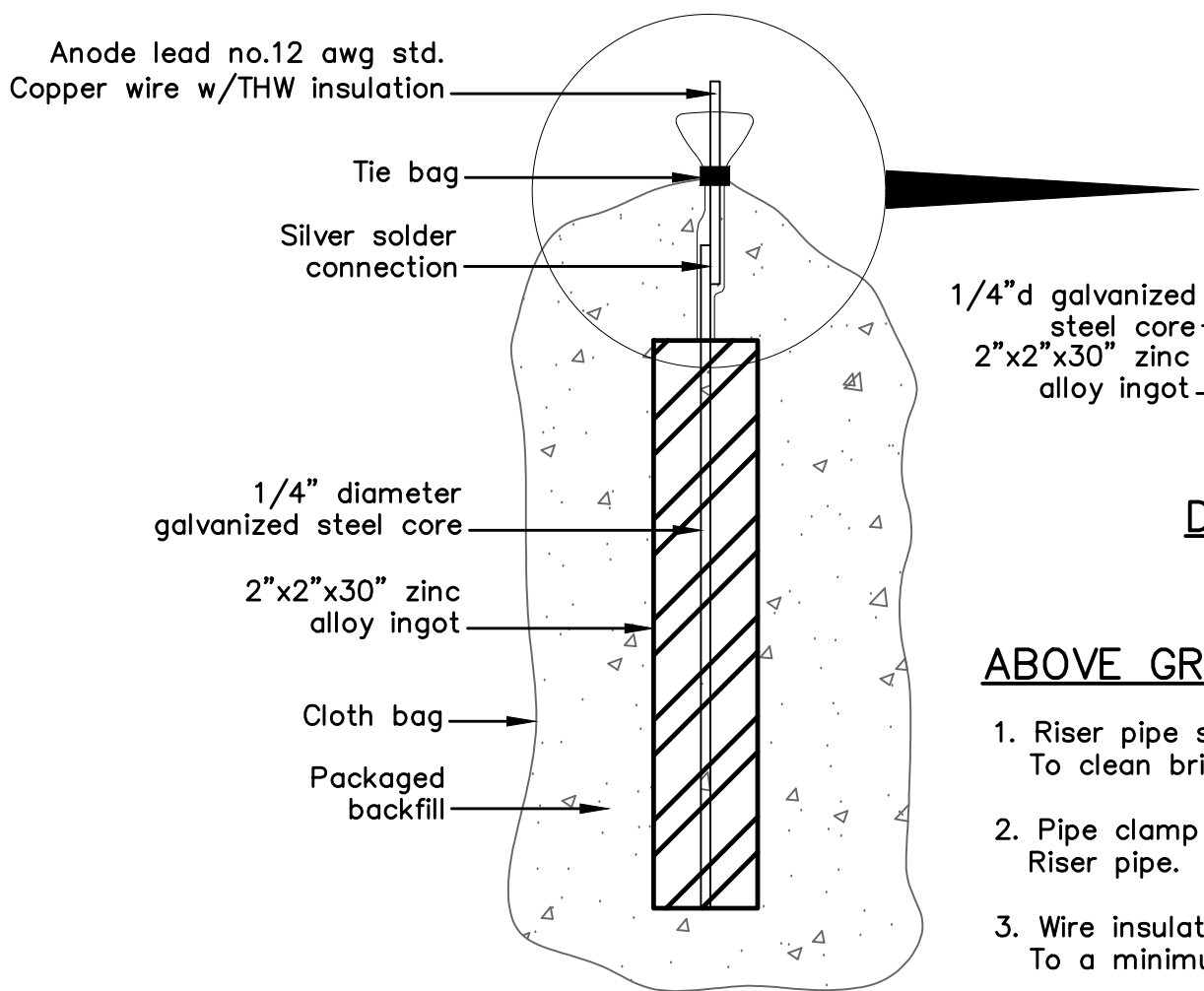
TECH CONTRACTORS 1910 TOURMALINE DR, #130 FALCON, CO 80831 TELEPHONE: 719.495.7444			
1		-	
2			
3			
4			
No.	Revisions	Date	Appr. Date



MERIDIAN RANCH

ROLLING HILLS RANCH NORTH FILING 1
AT MERIDIAN RANCH
STREET AND UTILITY PLANS
DETAIL SHEET

Scale AS SHOWN	Drawn by LCG
	Checked by TAK
	Date JULY 2024



ZINC ANODE

ZINC ANODE AND CONNECTORS
FOR 1" AND 2" WATER SERVICE

ABOVE GRADE CONNECTION NOTES:

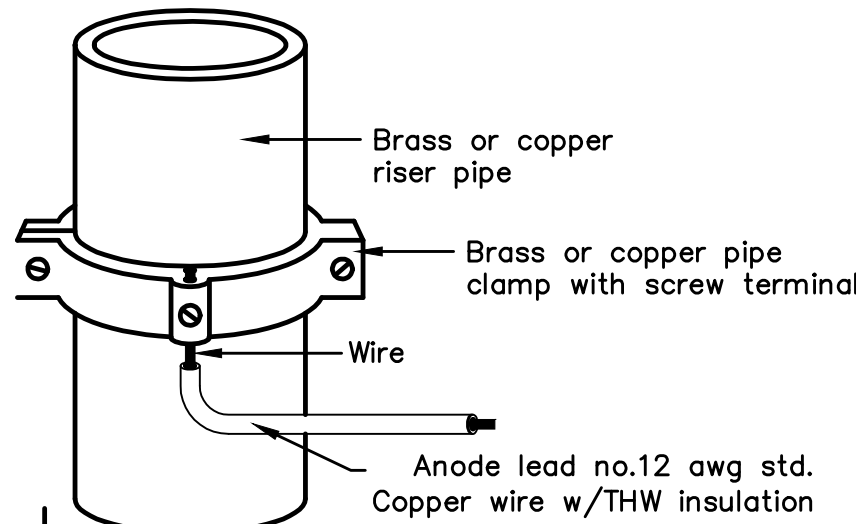
1. Riser pipe shall be wire brushed To clean bright metal.
2. Pipe clamp shall be located on Riser pipe.
3. Wire insulation shall be stripped To a minimum length to connect

Wire to pipe clamp.

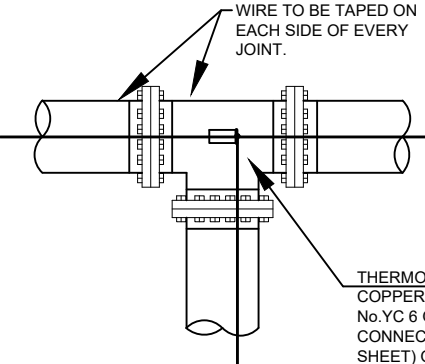
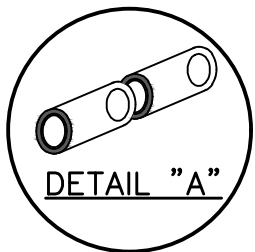
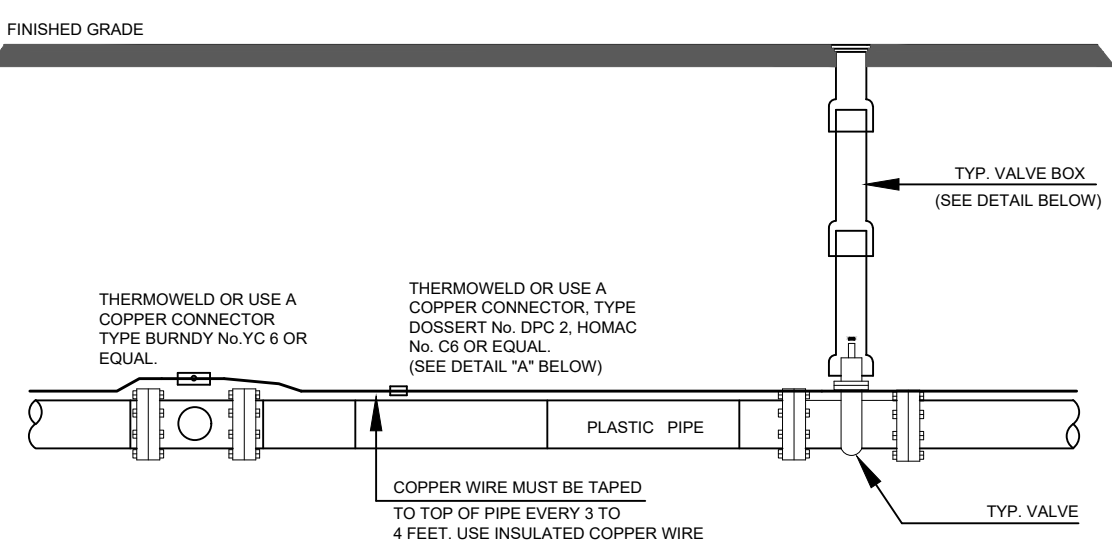
PACKAGED BACKFILL COMPOSTION:

75% gypsum
20% bentonite
5% sodium sulfate

Ingot weight: 30 lbs.
Pkgd. Weight: 70 lbs. Approx.



ANODE LEAD ABOVE
GRADE CONNECTION



Anode Design

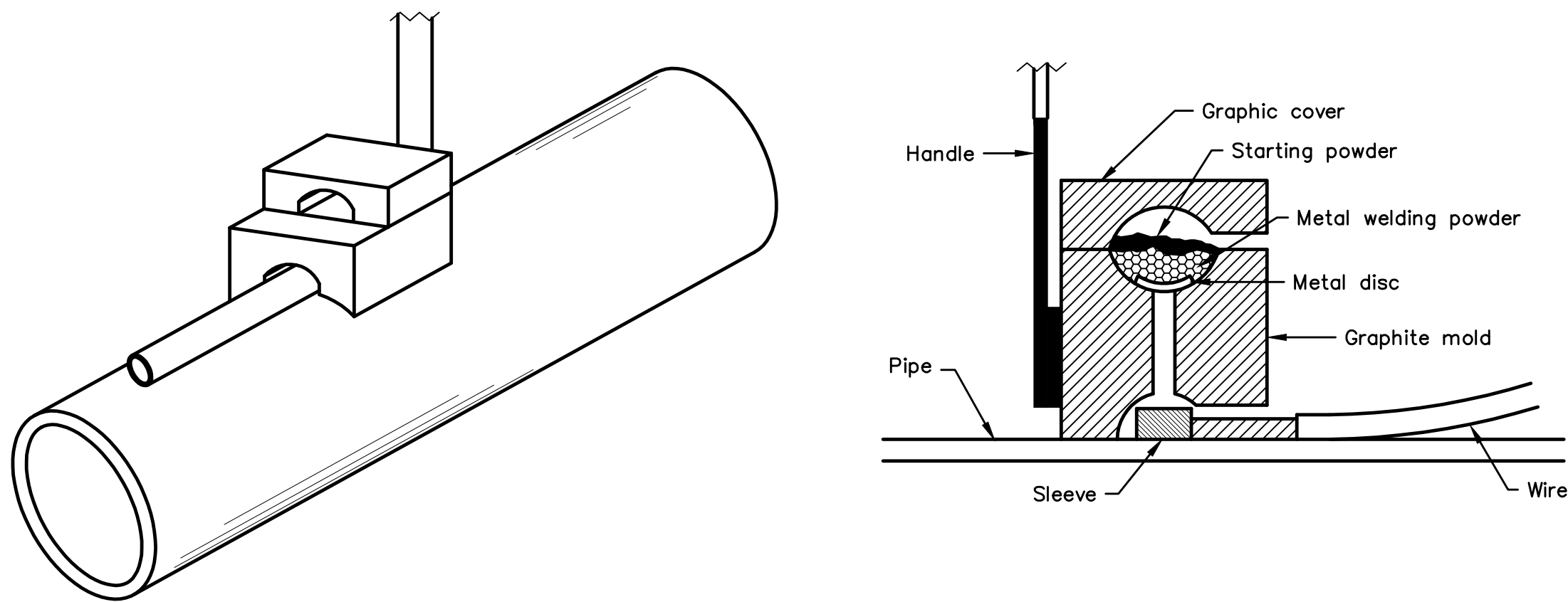
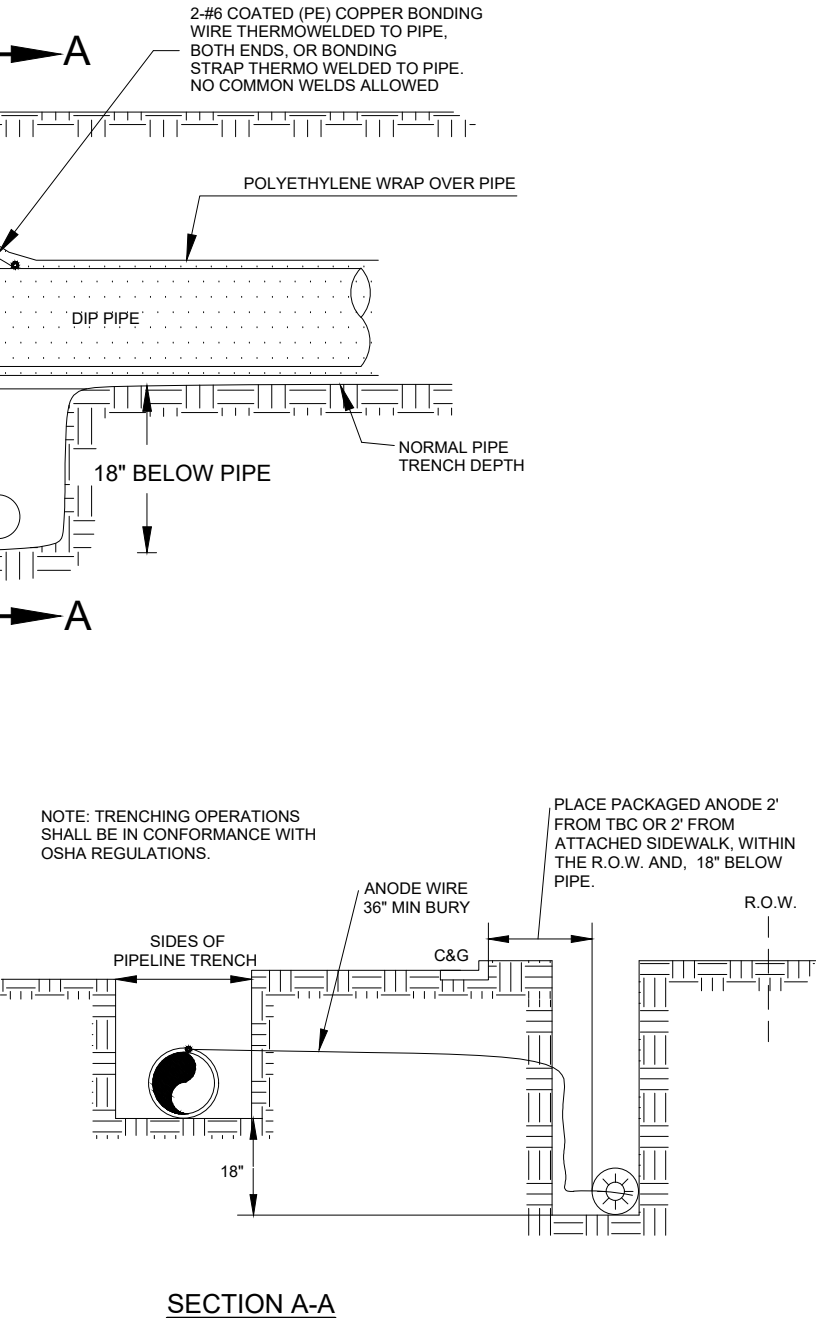
For use with DIP in conjunction with poly-wrap sleeves and piping in 1000 ohm-cm soil estimating a 5% holiday area.

Pipe Size Inches	Actual OD Inches	Anode Spacing Feet	Anode (see note 2)
4	4.8	76.3	17 lb
6	6.9	531	17 lb
8	9.05	405	17 lb
12	13.20	277	17 lb
16	16	210	32 lb
20	20	169	32 lb
24	24	142	48 lb
30	30	114	48 lb
36	36	95.7	48 lb
42	42	82.4	48 lb
48	48	72.1	48 lb
54	54	64.2	48 lb

The distance from the point of the beginning to the first anode shall not exceed one half the recommended spacing.

NOTES

1. Cadweld connection to be primed and coated carefully. Packed anode should be covered with fine soil containing no rocks or dirt clumps, tamped.
2. When anodes are required with metal fittings and appurtenances together with PVC pipe installations, the anodes shall be placed and attached to the metal fittings in same manner as shown on this drawing.
3. Packaged anode to be wetted and covered with soil prior to backfilling.



NOTE

1. Contractor is responsible for continuity of all tracer wire.
2. Tracer wire is required on all pipes per MSMD specifications (PVC and HDPE).

FIELD INSTALLATION OF POLYETHYLENE WRAP
FOR DIP PIPE AND FITTINGS.

STEP 1:

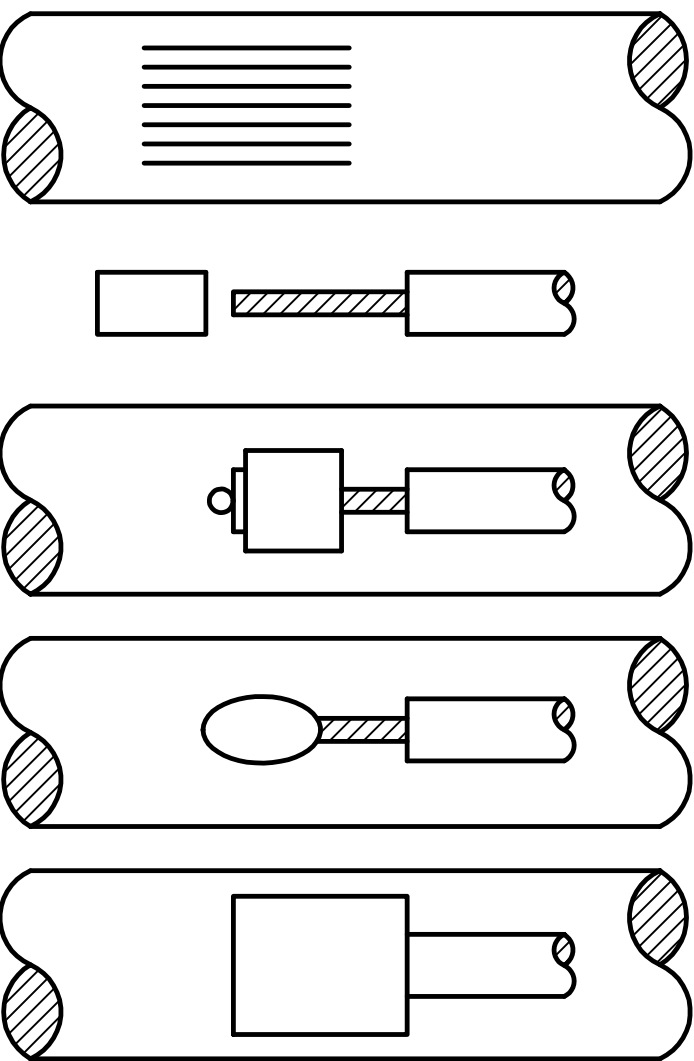
PLACE TUBE OF POLYETHYLENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO TRENCH.

STEP 2:

PULL TUBE OVER THE LENGTH OF THE PIPE. TAPE TUBE TO END AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH TAPE TO HOLD THE PLASTIC TUBE IN PLACE. INSTALL BONDING STRAP OR WIRE AT EVERY JOINT OF PIPE PRIOR TO WRAPPING.

STEP 3:

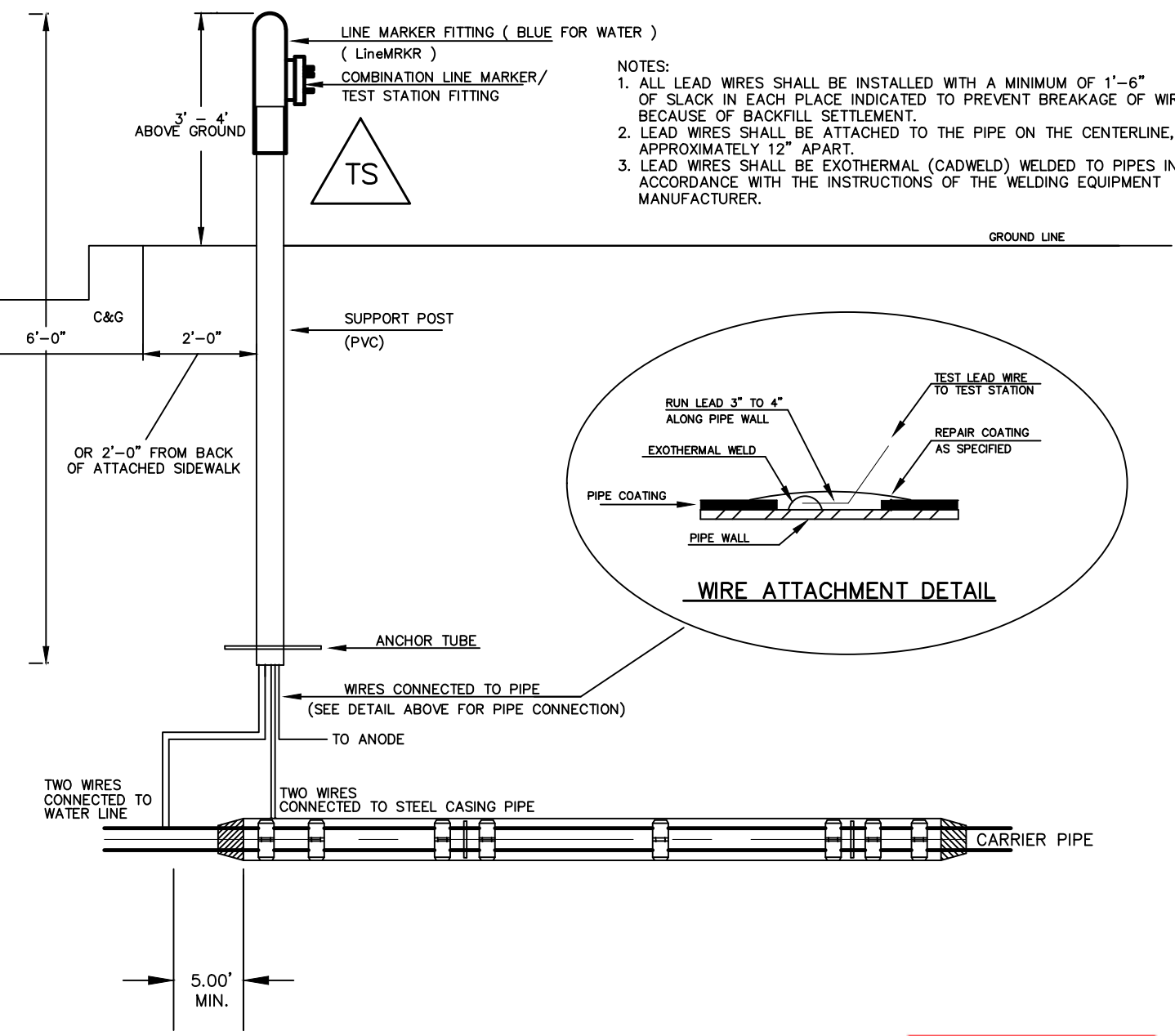
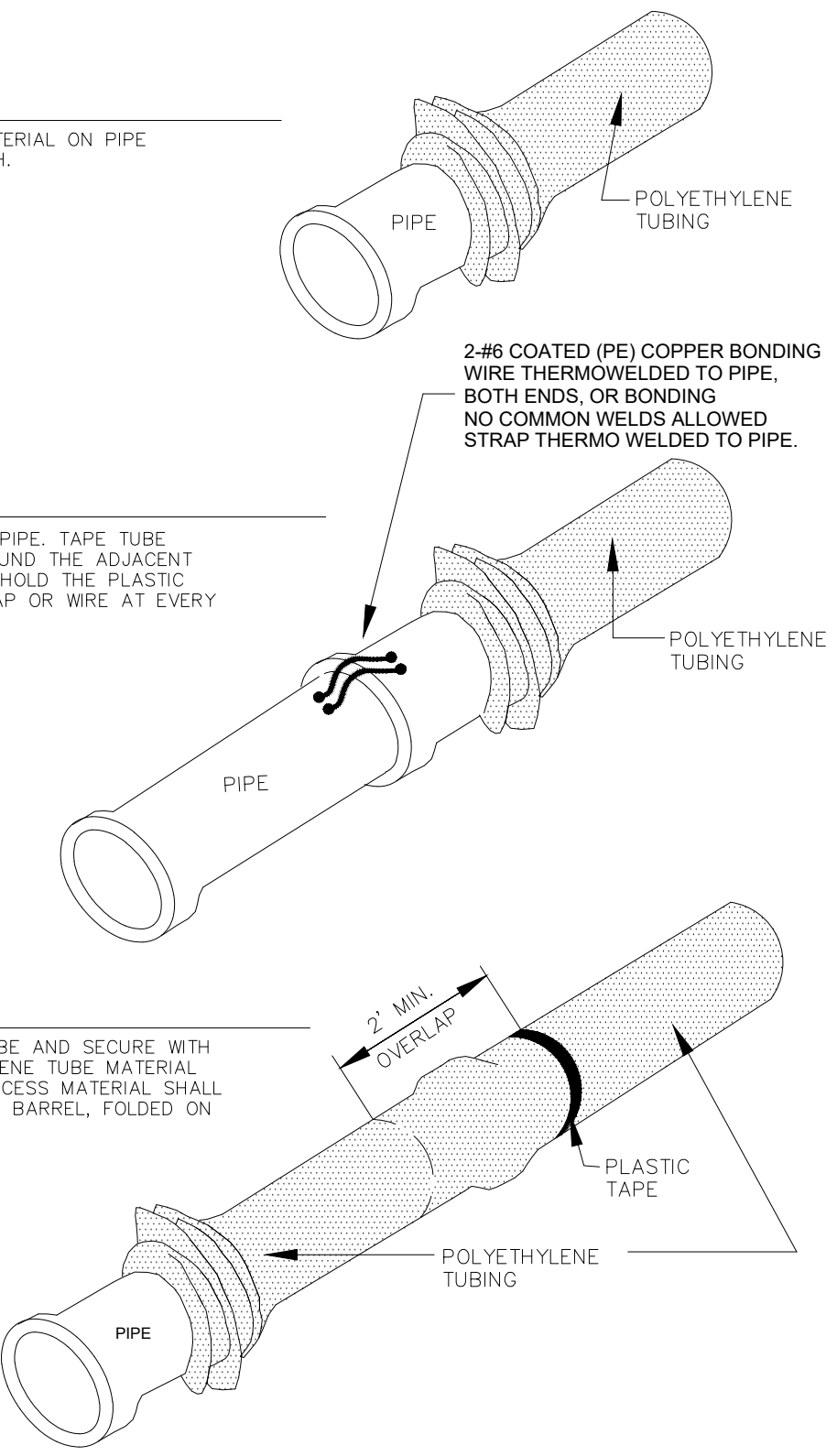
OVERLAP FIRST TUBE WITH ADJACENT TUBE AND SECURE WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE SHALL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED ON TOP OF PIPE AND TAPED IN PLACE.



NOTES:

1. All wire welds shall be minimum 3 inches apart.
2. Standard weld cartridges shall be used for steel surfaces.

EXOTHERMIC WELD PROCESS



TYPICAL DETAIL FOR TEST STATION
WITH STEEL SLEEVE INSTALLATION

NOTES:

- 1.) Lowerings to be cathodically protected under the direction of the MSMD Inspector, per standards. (For anode size see detail above.)
- 2.) Example can vary due to site conditions and MSMD Inspector's direction's.
- 3.) Reference Colorado Springs Utilities Standard Detail Drawing No. A 8-6 – Steel Sleeve Installation.

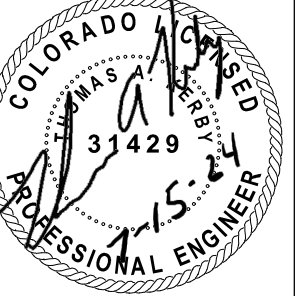
Date	Appr.	Init.	Date	Revisions	No.

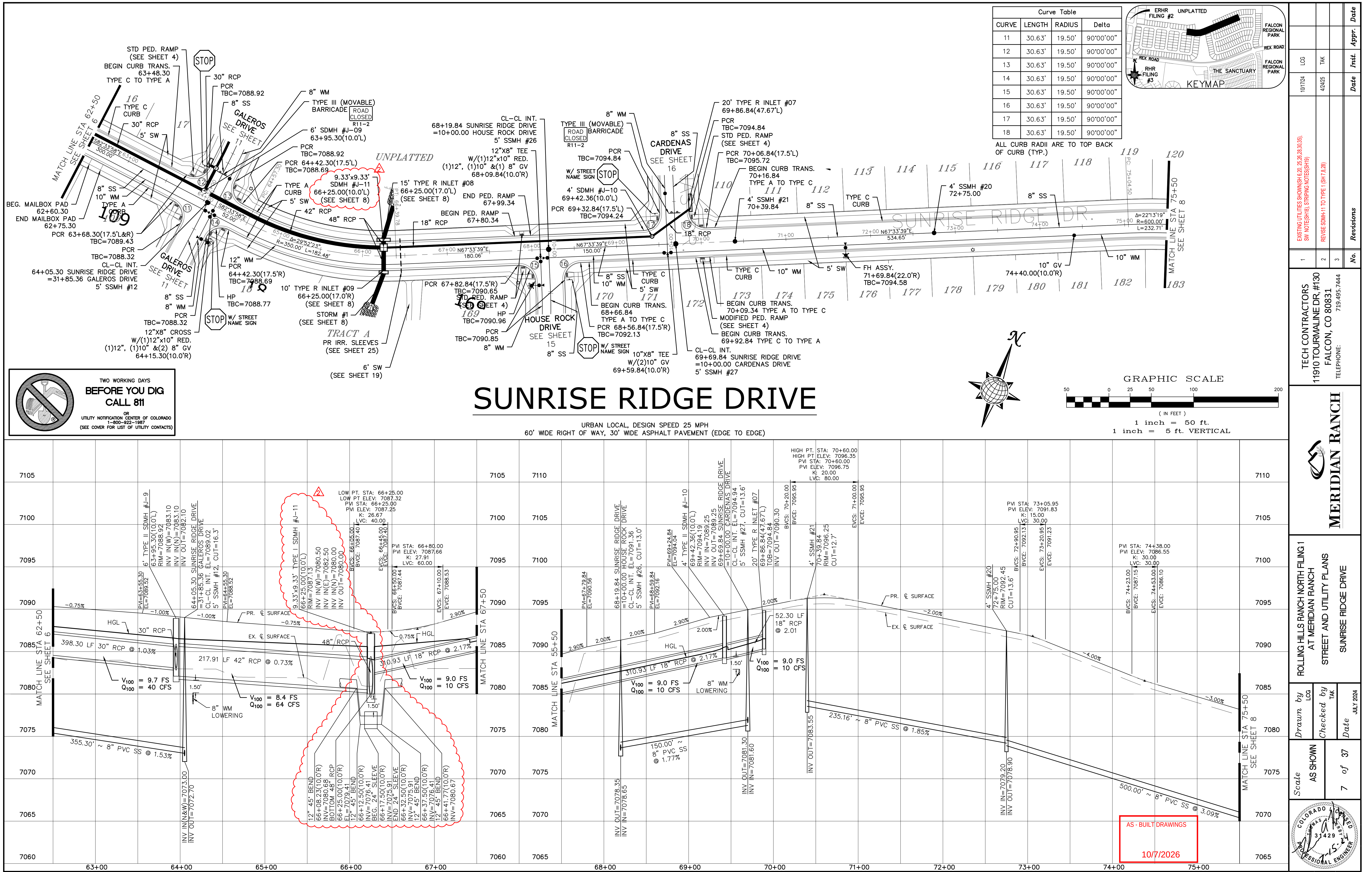
TECH CONTRACTORS
11910 TOURMALINE DR. #130
FALCON, CO 80831
TELEPHONE 719.495.7444



ROLLING HILLS RANCH NORTH FILING 1
AT MERIDIAN RANCH
STREET AND UTILITY PLANS
DETAIL SHEET

Drawn by	Log	Checked by	TAK	Date
AS SHOWN				5 of 37





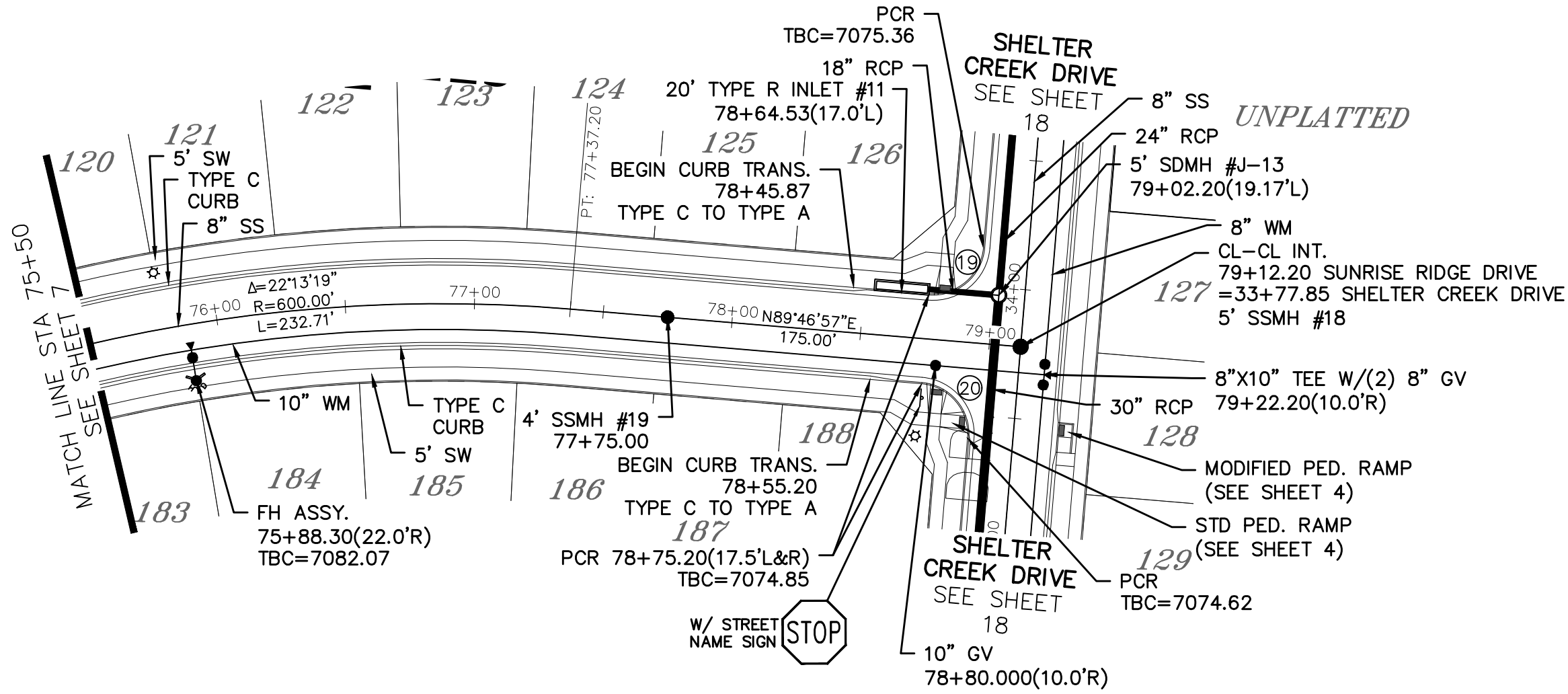


TWO WORKING DAYS
**BEFORE YOU DIG
CALL 811**

OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-822-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

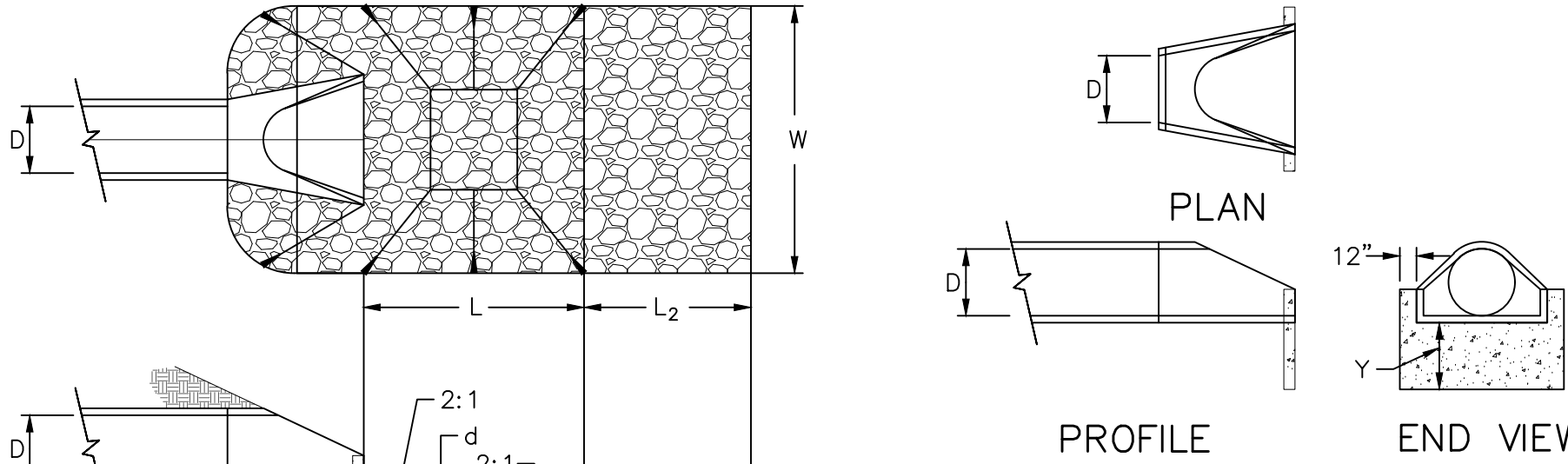
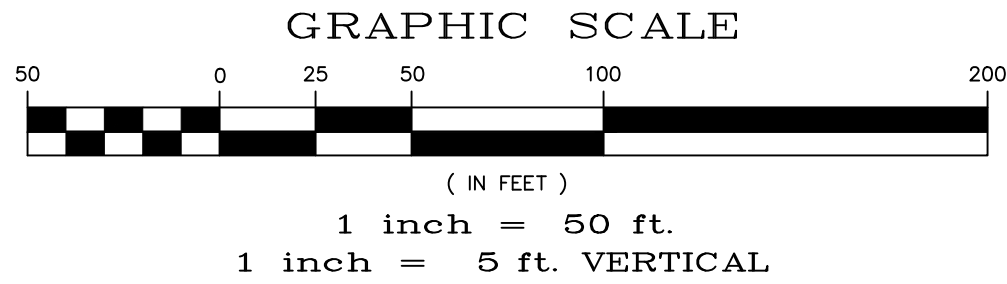
Curve Table			
CURVE	LENGTH	RADIUS	Delta
19	30.63'	19.50'	90°00'00"
20	30.63'	19.50'	90°00'00"

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



SUNRISE RIDGE DRIVE

URBAN LOCAL, DESIGN SPEED 25 MPH
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

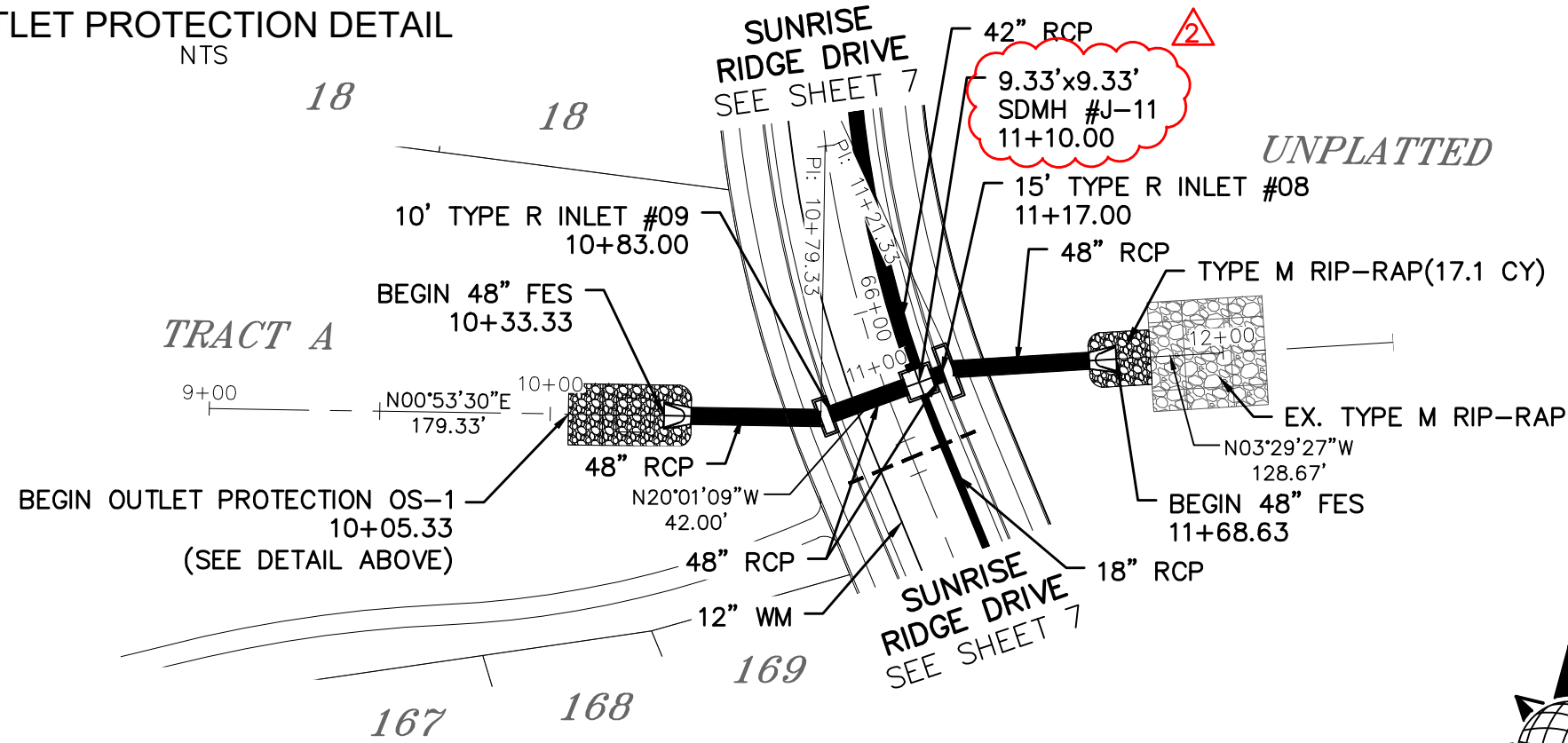


URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
Figure HS-19a. Culvert Cutoff Wall

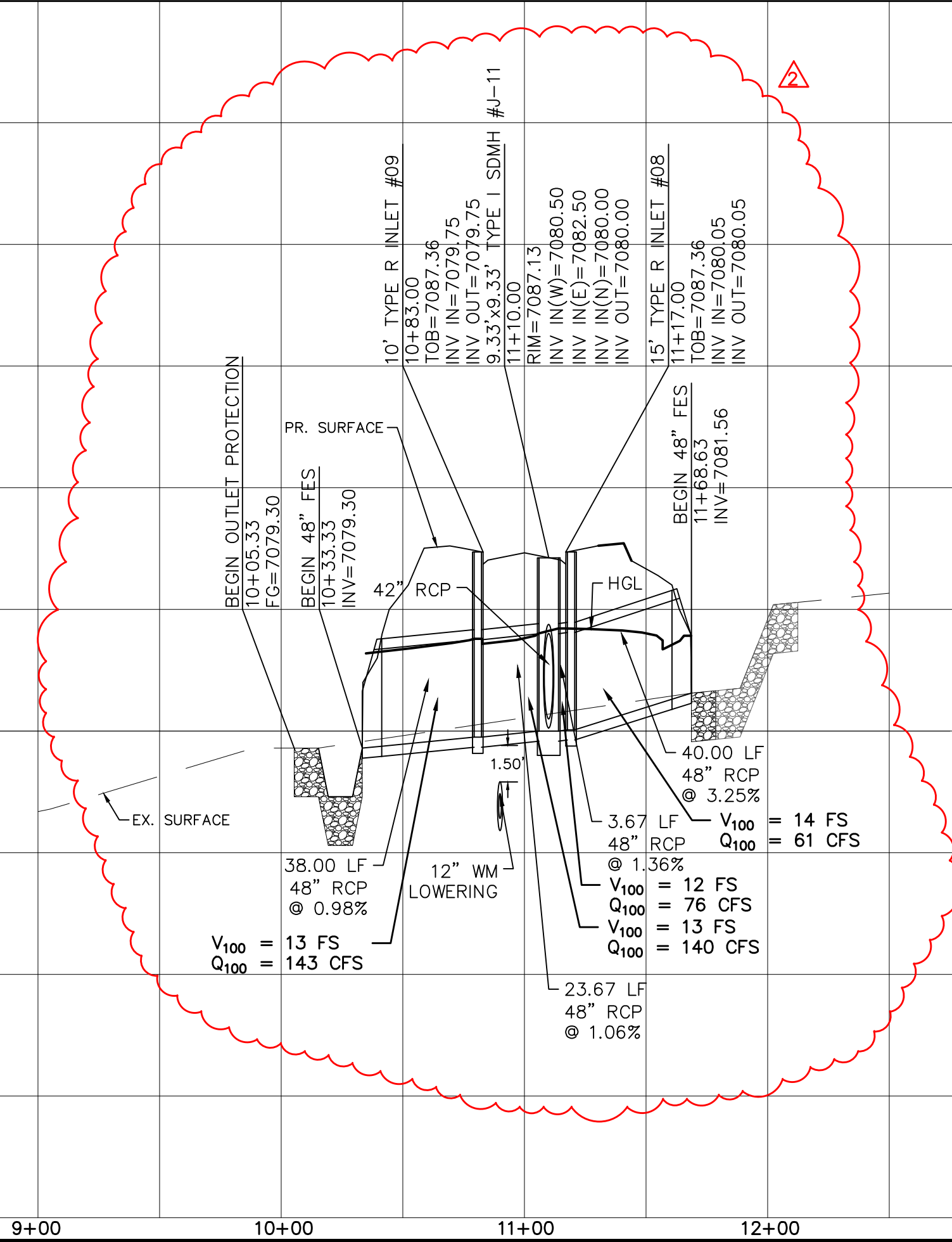
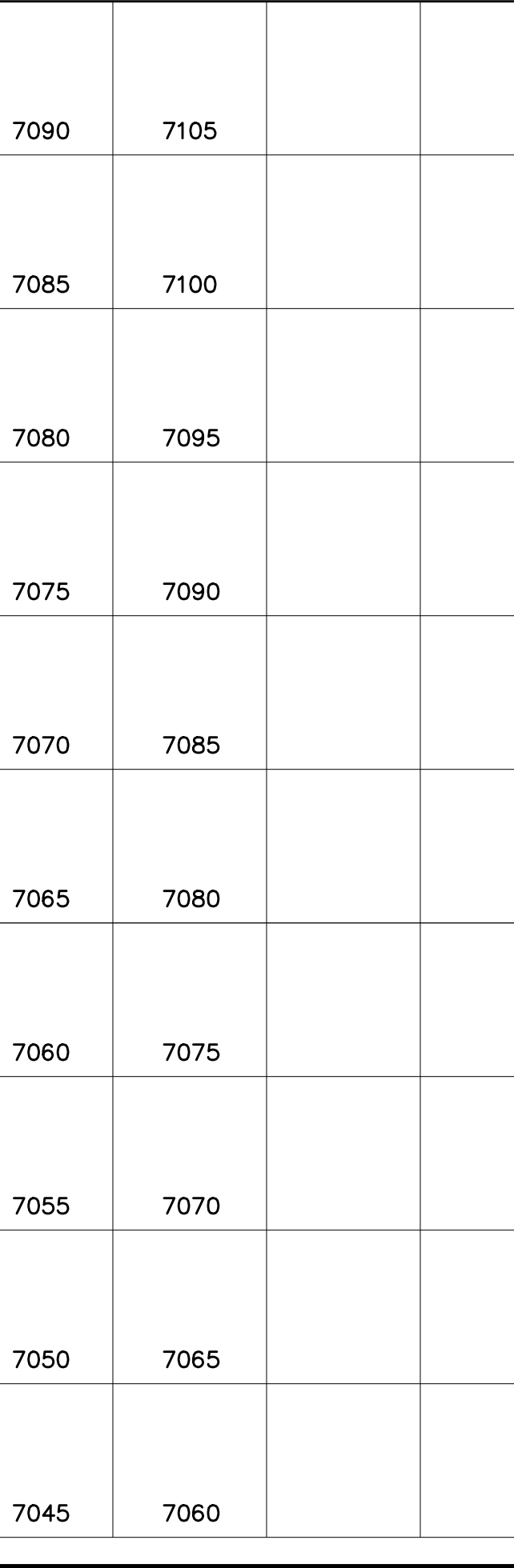
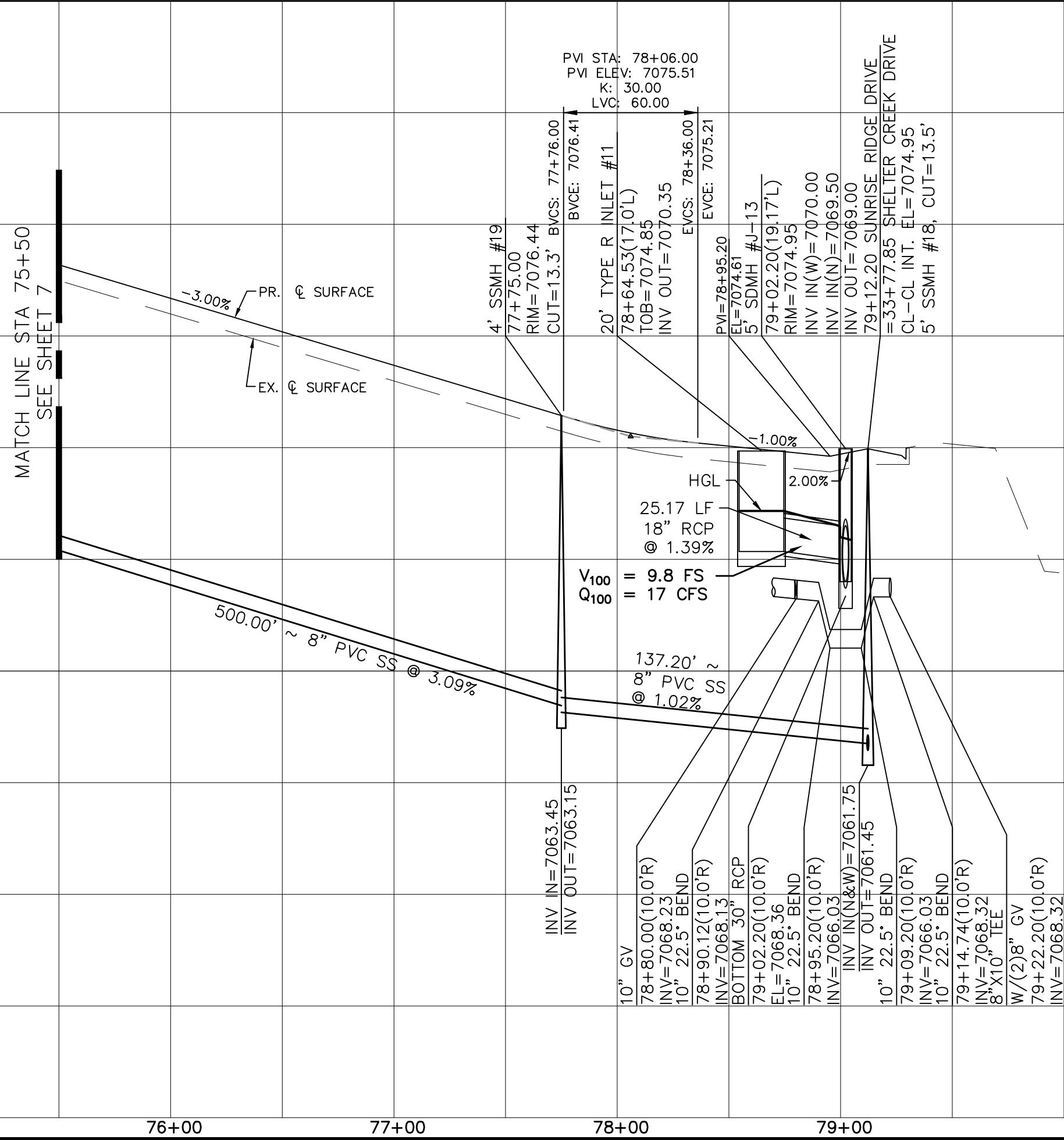
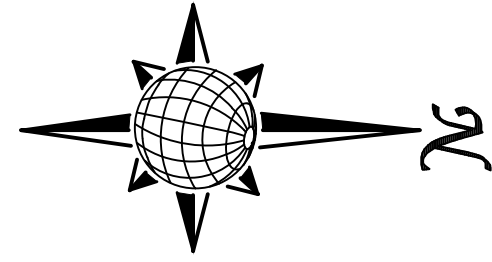
PIPE OUTLET	L	W	L ₂	d	Y	TYPE	D ₉₀	CY	NOTES
OS-1 48"	18	18	10	2.0	4.0	M	1.00'	43.7	SEE LEFT
OS-2 30"	11	10	20	1.25	3.0	M	1.00'	25.9	SEE LEFT

- NOTES:
1. Flared end section required at RCP outlets.
 2. Provide joint fasteners for flared end sections.

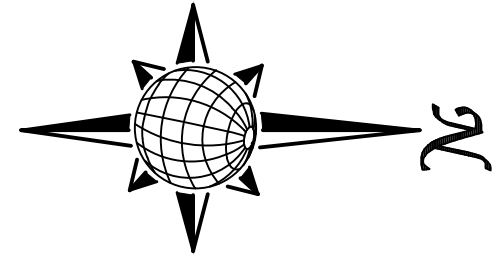
OUTLET PROTECTION DETAIL
NTS



STORM #1



AS - BUILT DRAWINGS
10/7/2026



LOG

TAK

DATE

10/17/24

4/24/25

DATE

INIT.

APPR.

DATE

INIT.

APPR.

EXISTING UTILITIES SHOWN(SH-20, 25, 26, 28, 30, 35),
SW NOTE(SH-18), STRIPING NOTES(SH-19)

REVISE SDMH-11 TO TYPE I (SH-7.8, 8.20)

1

2

3

No.

Revisions

TECH CONTRACTORS

11910 TOURMALINE DR. #130

FALCON, CO 80831

TELEPHONE 719.495.7444



MERIDIAN RANCH

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

SUNRISE RIDGE DRIVE
AND STORM #1

Drawn by

LOG

Checked by

TAK

Date

JULY 2024

Scale

AS SHOWN

8 of 37

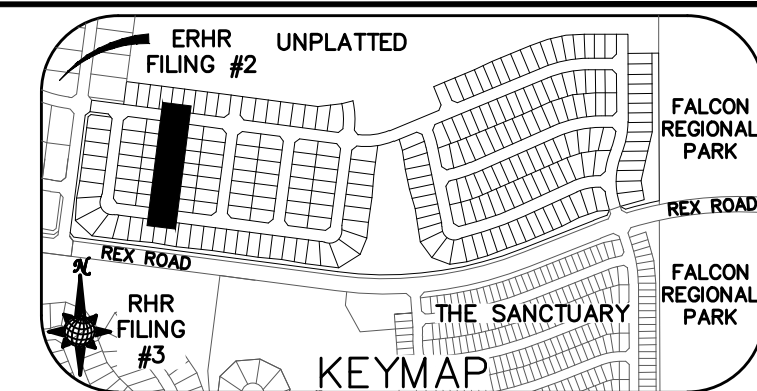
COLORADO

31429

PROFESSIONAL ENGINEER

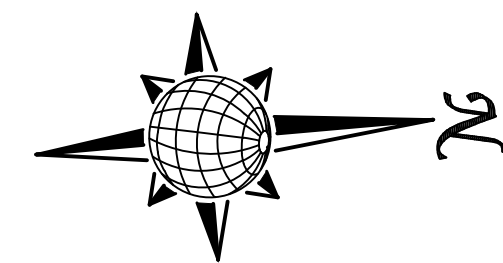
PCD PROJECT NO. SF2411





Curve Table			
CURVE	LENGTH	RADIUS	Delta
3	30.63'	19.50'	90°00'00"
4	30.63'	19.50'	90°00'00"
25	30.63'	19.50'	90°00'00"
26	30.63'	19.50'	90°00'00"

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



GRAPHIC SCALE

(IN FEET)

1 inch = 50 ft.

1 inch = 5 ft. VERTICAL



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

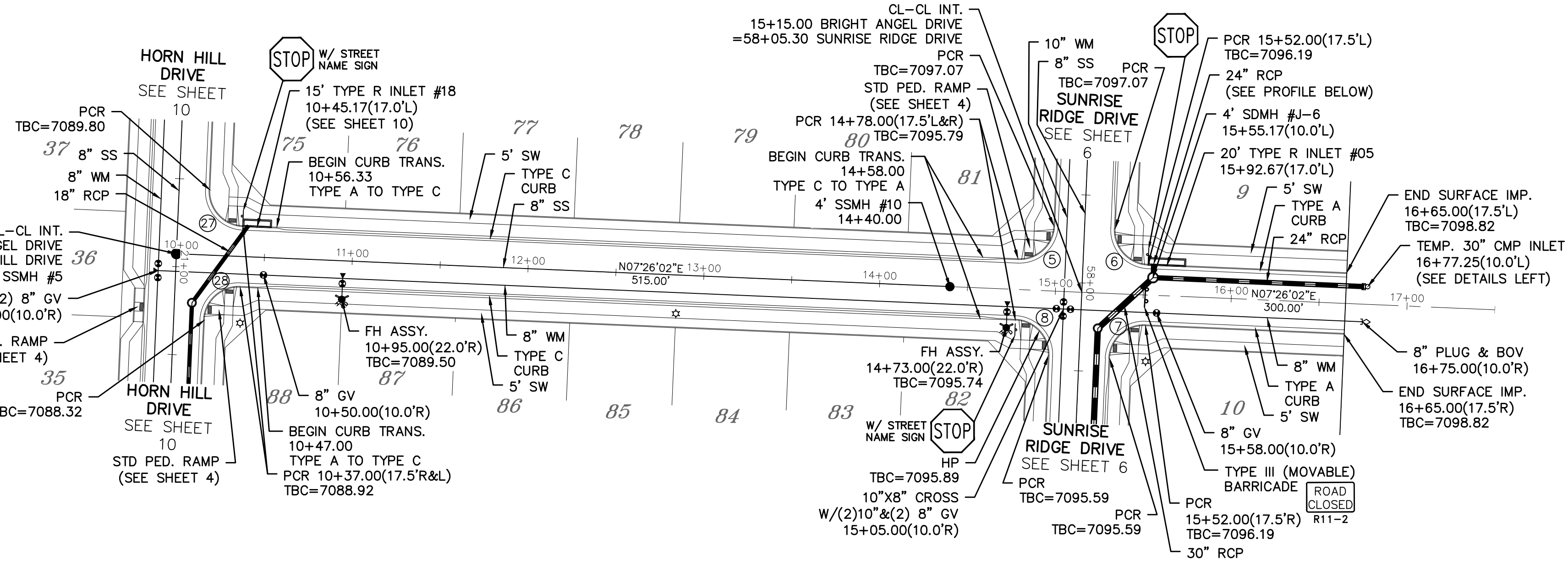
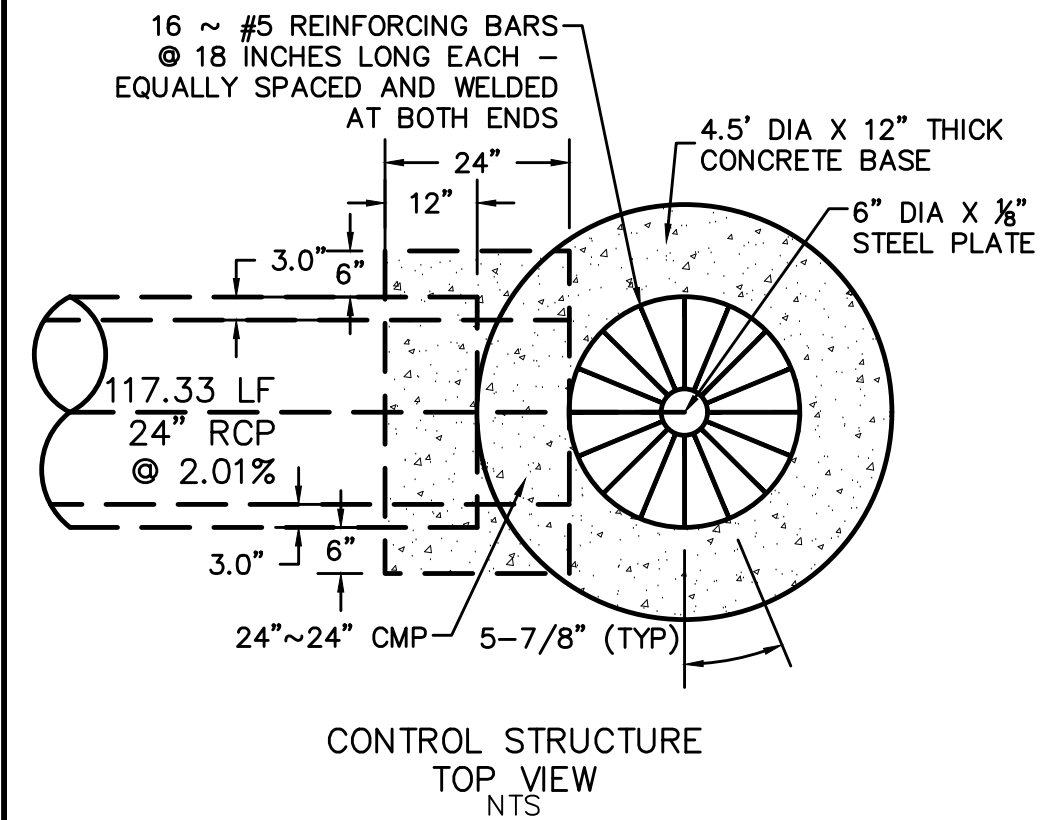
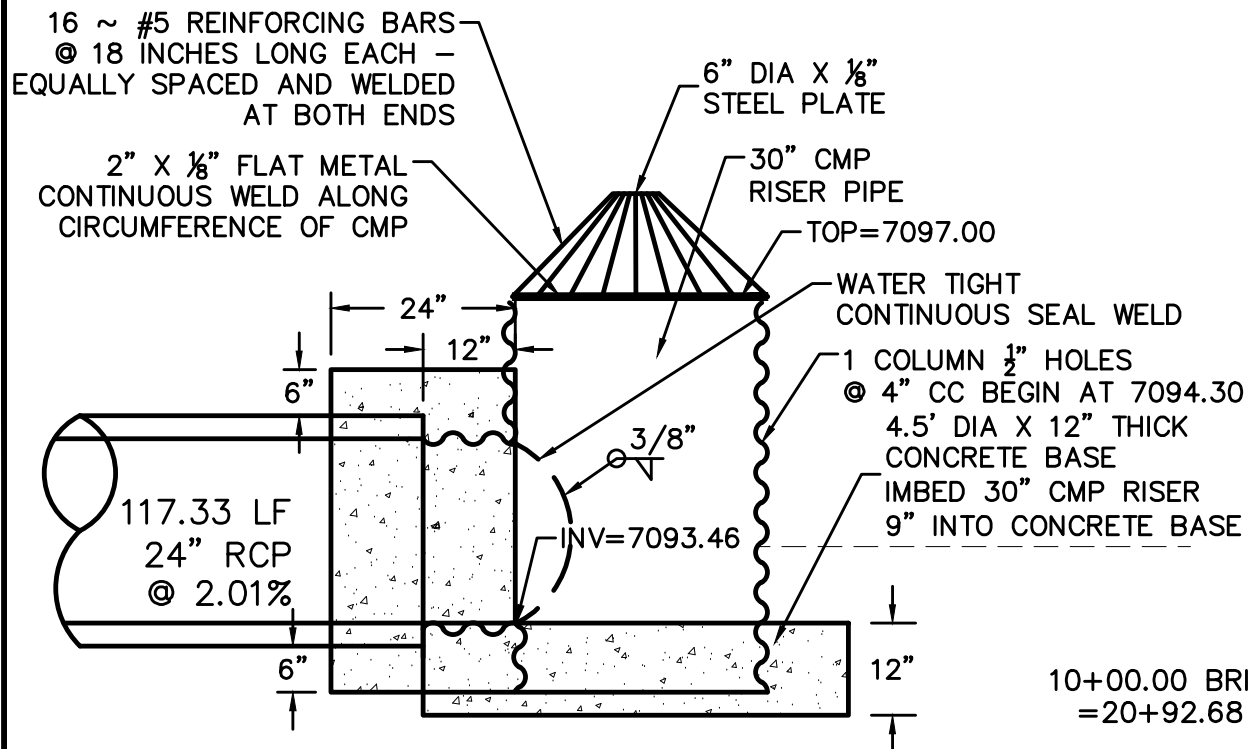
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

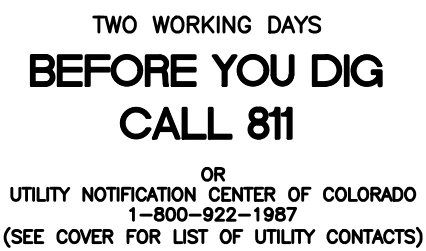
URBAN LOCAL, DESIGN SPEED 25 MPH
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

[illegible]

	Scale	Drawn by AS SHOWN	Rolling Hills Ranch North Filing 1 at Meridian Ranch Street and Utility Plans Temple Butte Drive	 MERIDIAN RANCH	TECH CONTRACTORS 11910 TOURMALINE DR, #130 FALCON, CO 80831 TELEPHONE: 719.495.7444	1				
							2			
							3			
							4			
	12 of 37	Date	JULY 2024			No.	Revisions	Date	Appr.	

NOTE: PAINT OR COAT ALL
WELD AND CUT AREAS OF
THE CMP PIPES.

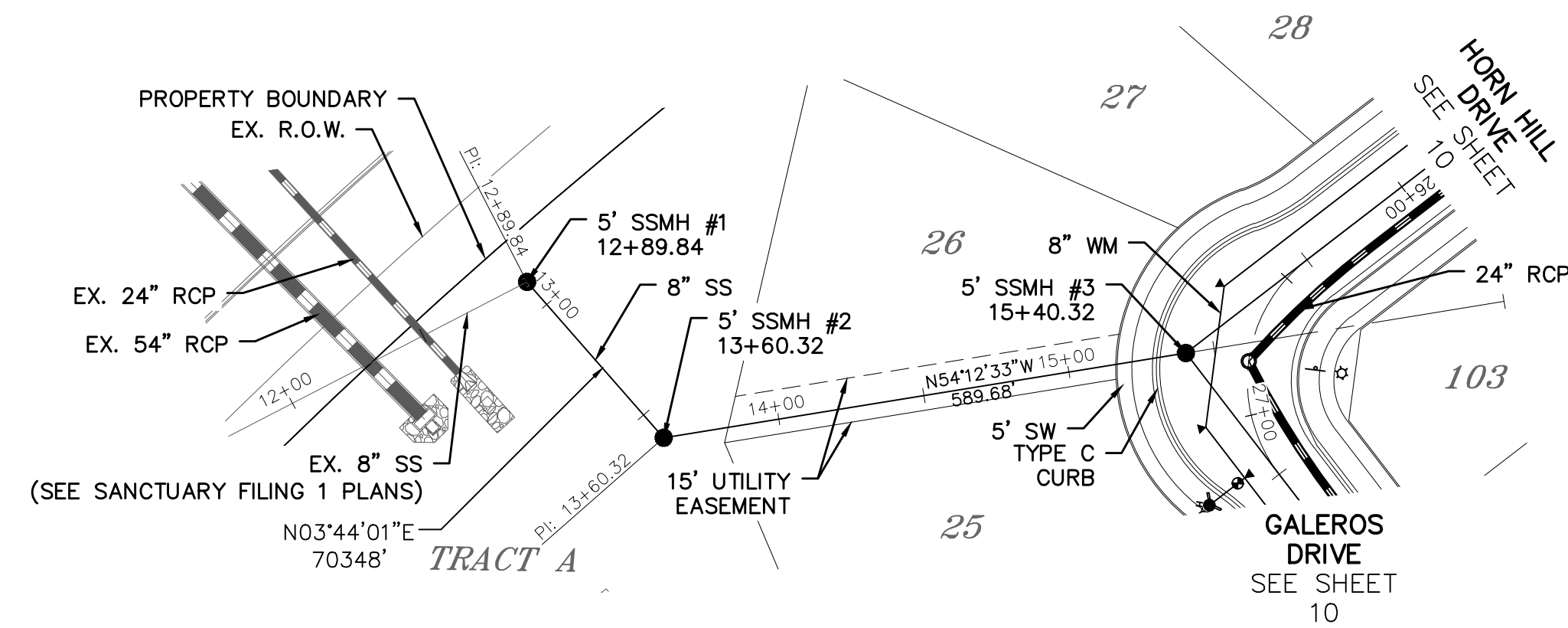




INSTALL CROSS PAN	
PER COUNTY STD	
SD-2-26	
1	= 7082.90
2	= 7082.56
3	= 7082.22

A keymap showing the location of the proposed development. The map includes labels for 'ERHR FILING #2', 'UNPLATTED', 'FALCON REGIONAL PARK', 'REX ROAD', 'THE SANCTUARY', 'RHR FILING #3', and a compass rose. A large black arrow points from the 'UNPLATTED' area towards 'THE SANCTUARY'.

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



NOTE: CONTRACTOR TO CONFIRM INV ELEVATION
OF EXISTING 8" PVC SS PRIOR TO NEW MANHOLE
AND PIPE INSTALLATION



URBAN LOCAL, DESIGN SPEED 25 MPH
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



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



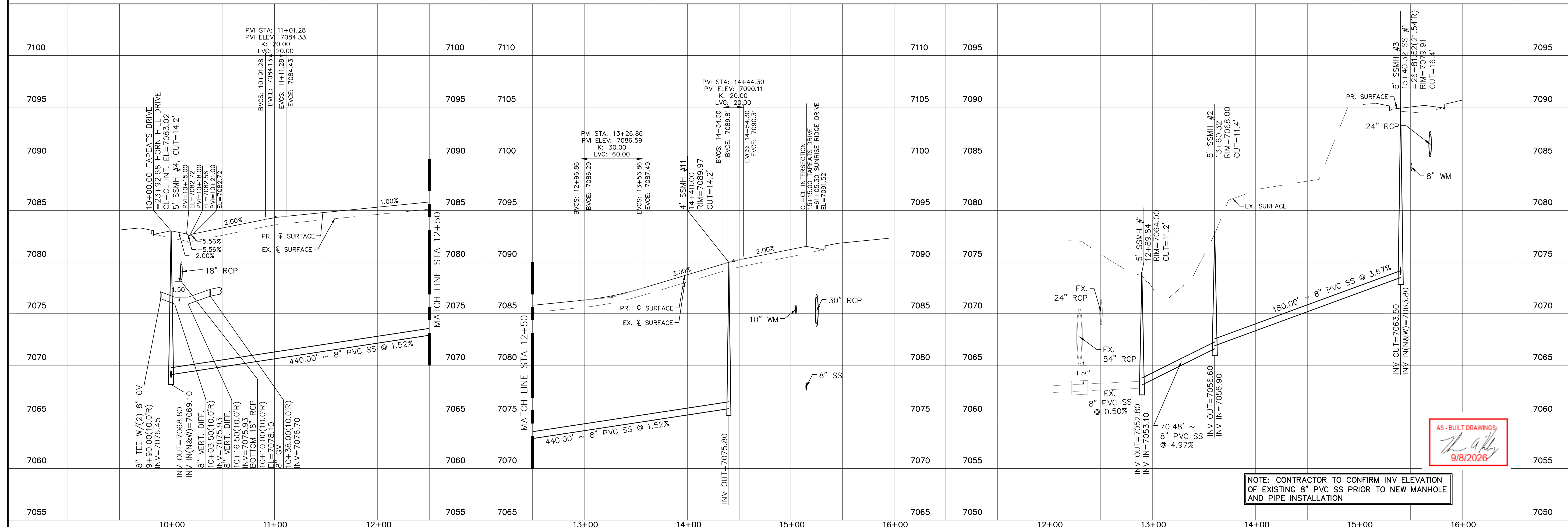
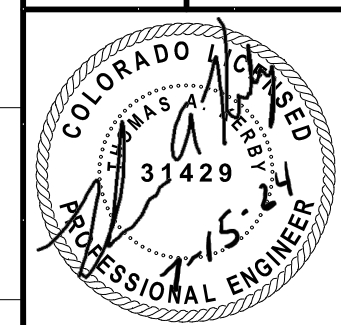
TECH CONTRACTORS
1910 TOURMALINE DR, #130
FALCON, CO 80831
TELEPHONE: 719.495.7444

MERIDIAN RANCH



LLING HILLS RANCH NORTH FILING 1
AT MERIDIAN RANCH
STREET AND UTILITY PLANS
TAPEATS DRIVE AND SS #1

Scale
AS SHOWN
14 of 37

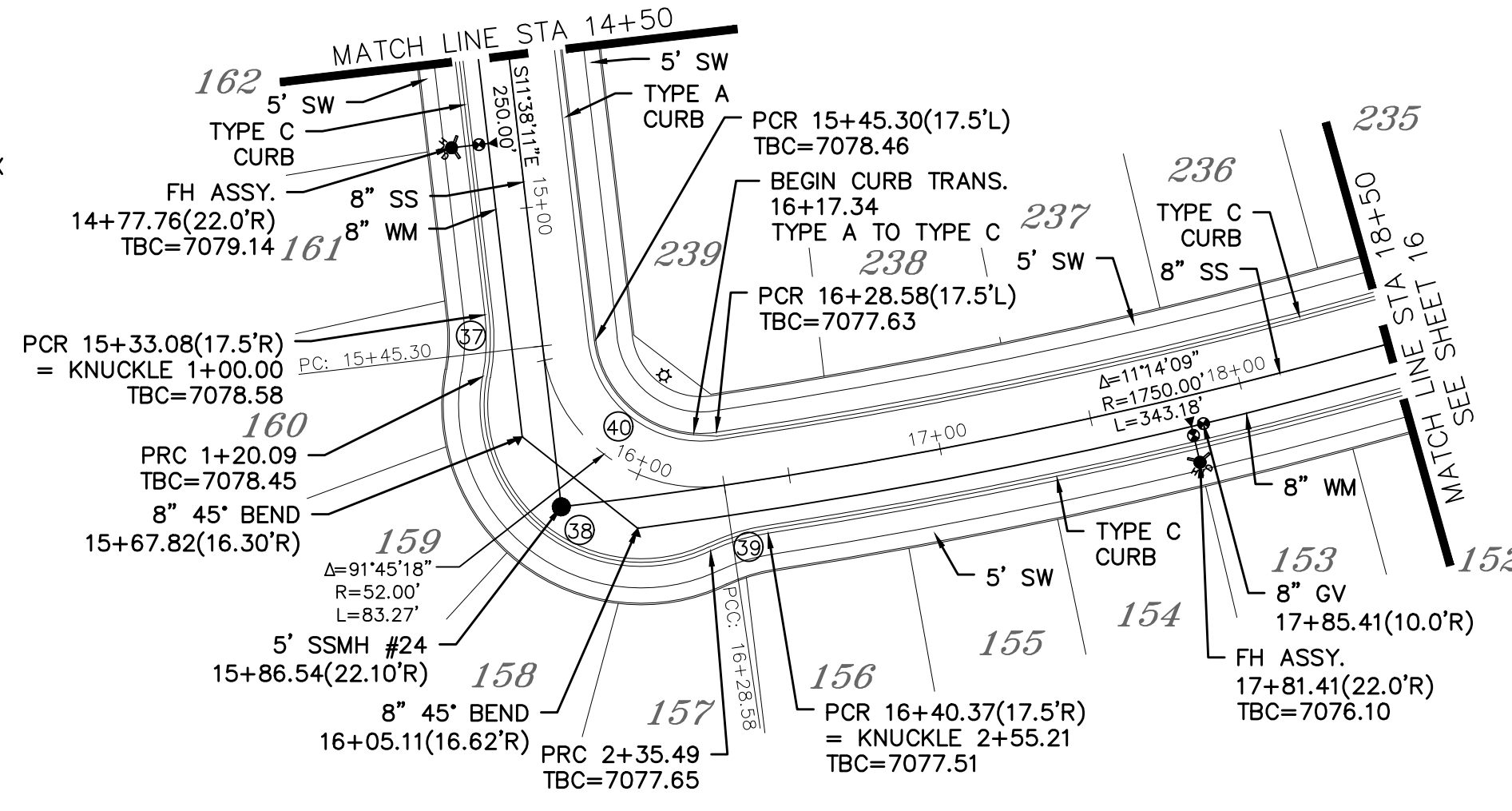


NOTE: CONTRACTOR TO CONFIRM INV ELEVATION
OF EXISTING 8" PVC SS PRIOR TO NEW MANHOLE
AND PIPE INSTALLATION

AS - BUILT DRAWINGS
9/8/2026

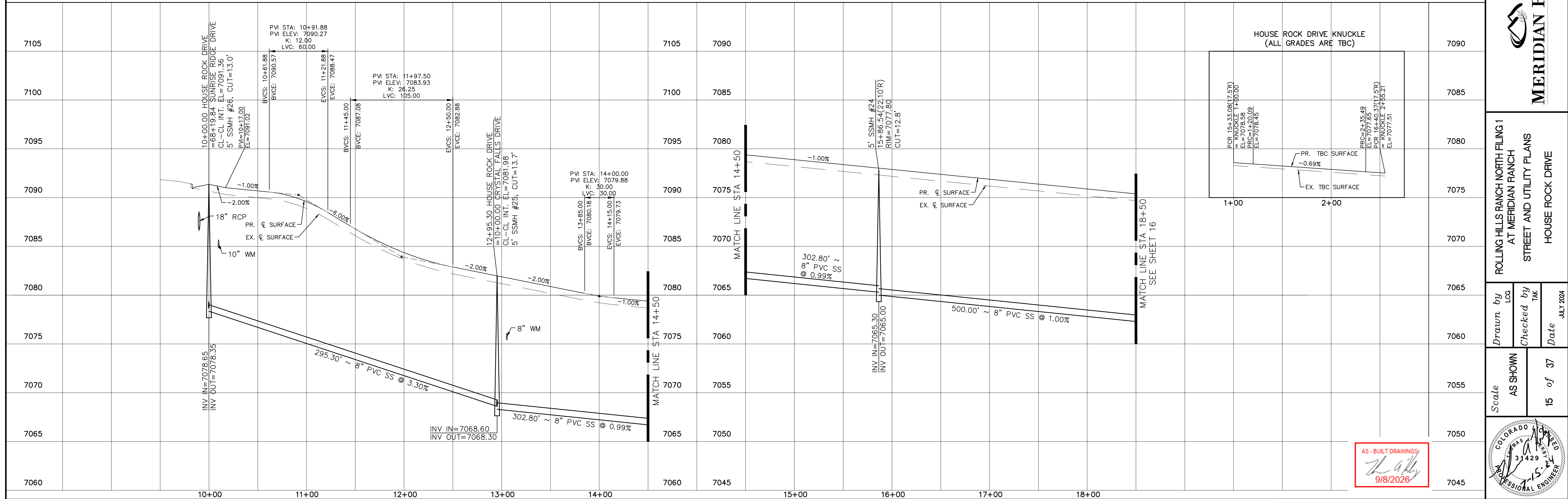
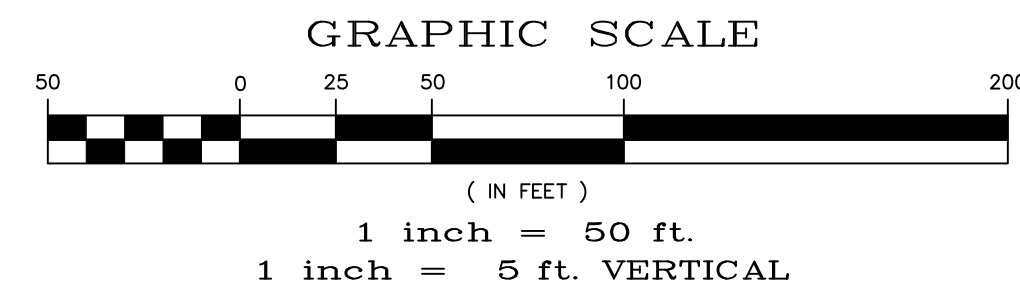
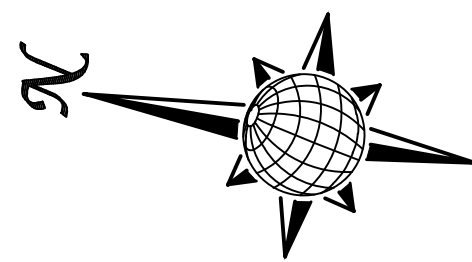
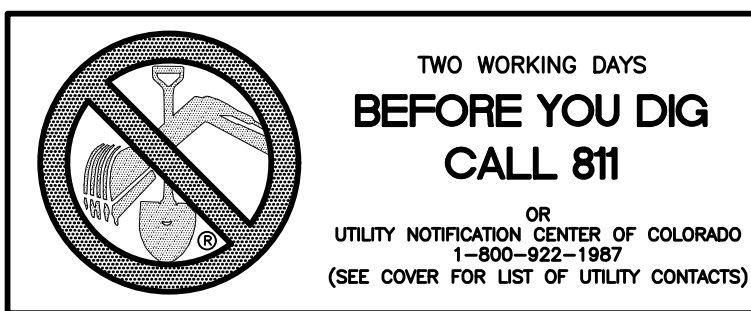
PCD PROJECT NO. SF2411

1	=	7081.85
2	=	7081.51
3	=	7081.17



Curve Table			
CURVE	LENGTH	RADIUS	Delta
15	30.63'	19.50'	90°00'00"
16	30.63'	19.50'	90°00'00"
35	30.63'	19.50'	90°00'00"
36	30.63'	19.50'	90°00'00"
37	20.09'	67.50'	17°03'24"
38	115.39'	52.50'	125°56'10"
39	19.72'	67.50'	16°44'18"
40	55.25'	34.50'	91°45'18"

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



Date	Init.	Appr.	Date

	No.	Revisions
	1	
	2	
	3	
	4	

TECH CONTRACTORS
1910 TOURMALINE DR., #130
FALCON, CO 80831
TELEPHONE: 719.495.7444

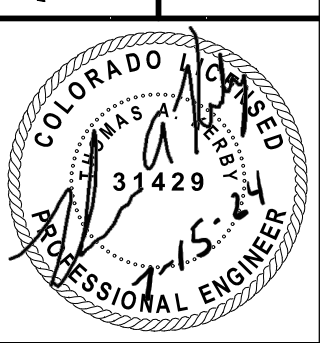


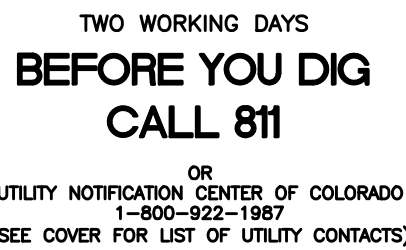
MERIDIAN RANCH

ROLLING HILLS RANCH NORTH FILING 1
AT MERIDIAN RANCH
STREET AND UTILITY PLANS
HOUSE ROCK DRIVE

Drawn by LOG	Checked by TAK	Date JULY 2024
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Scale	AS SHOWN
15	of 37





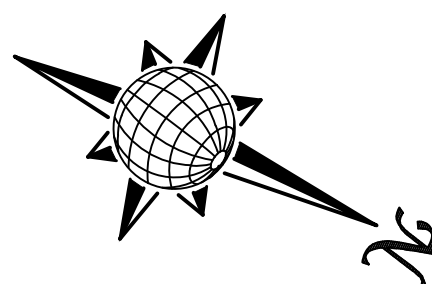
GRAPHIC SCALE

(IN FEET)

1 inch = 50 ft.

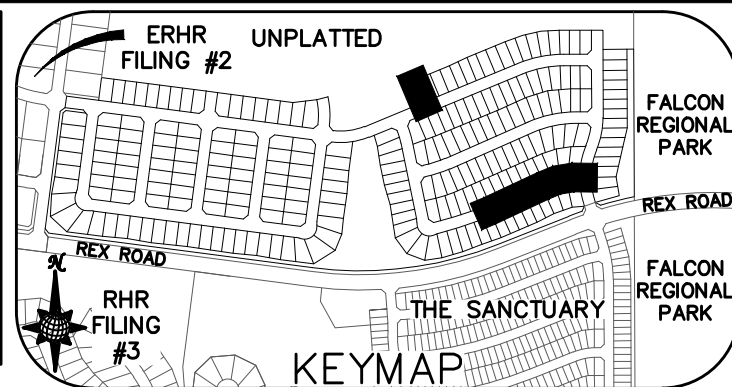
1 inch = 5 ft. VERTICAL

URBAN LOCAL, DESIGN SPEED 25 MPH
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



URBAN LOCAL, DESIGN SPEED 25 MPH
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

Curve Table			
CURVE	LENGTH	RADIUS	Delta
17	30.63'	19.50'	90°00'00"
18	30.63'	19.50'	90°00'00"
41	28.98'	19.50'	85°08'35"
42	28.98'	19.50'	85°08'35"



Date	Init.	Init.	Appr.	Date
.	.	.	.	

<i>Revisions</i>

TECH CONTRACTORS
1910 TOURMALINE DR, #130
FALCON, CO 80831
TELEPHONE: 719.495.7444

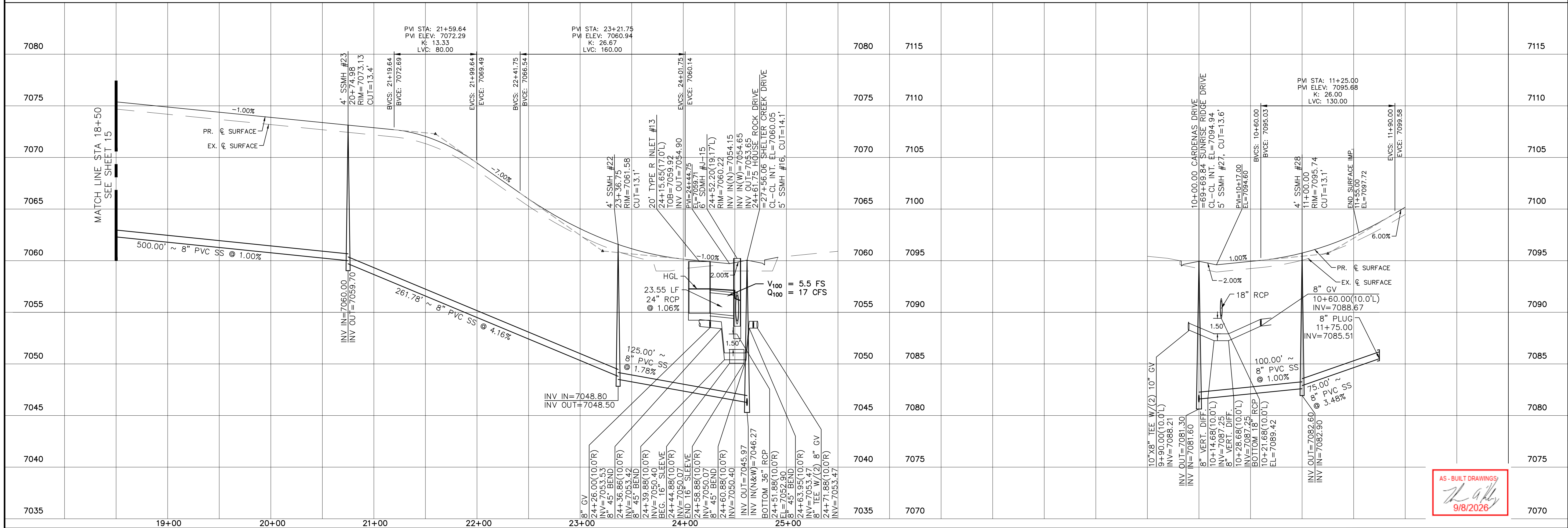
MERIDIAN RANCH

ROLLING HILLS RANCH NORTH FILING 1
AT MERIDIAN RANCH
STREET AND UTILITY PLANS
HOUSE ROCK DRIVE
AND CARDENAS DRIVE

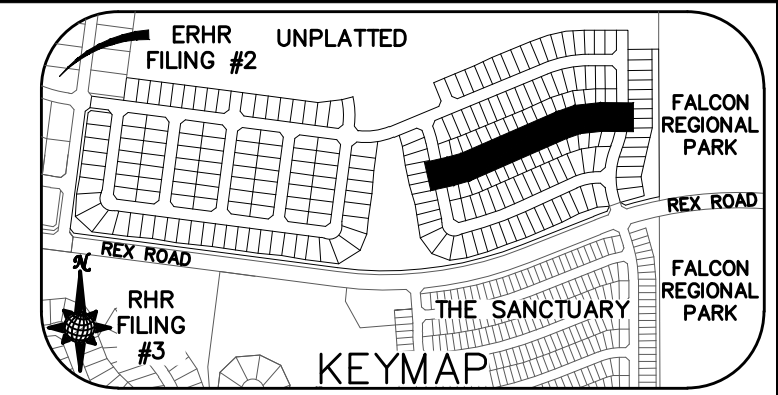
Drawn by LOG	Checked by TAK	Date JULY 2024
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Scale
AS SHOWN

16 of 37

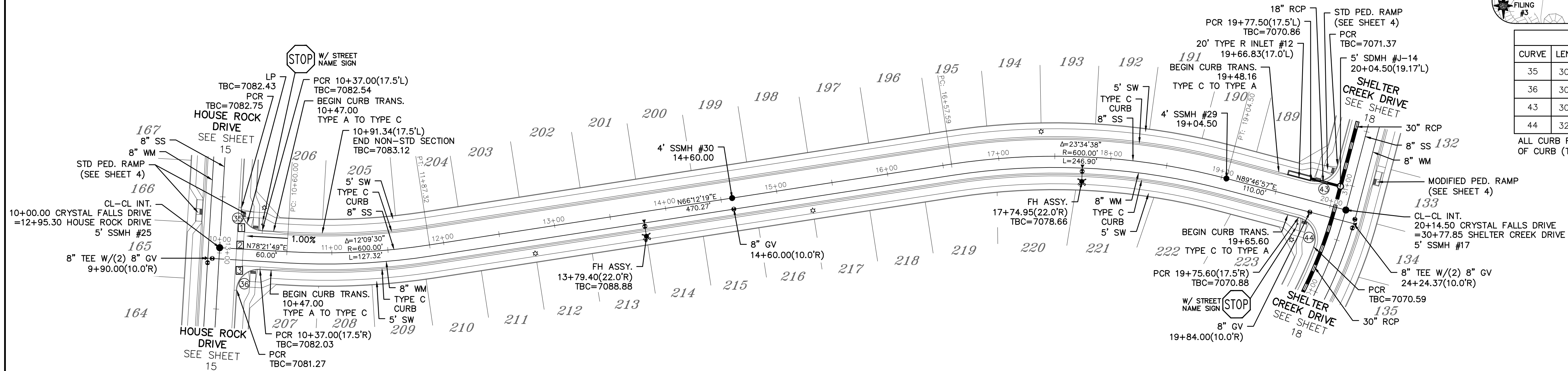


AS - BUILT DRAWINGS
[Signature]
 9/8/2026

$$\begin{aligned} \boxed{1} &= 7081.85 \\ \boxed{2} &= 7081.51 \\ \boxed{3} &= 7081.17 \end{aligned}$$


Curve Table			
CURVE	LENGTH	RADIUS	Delta
35	30.63'	19.50'	90°00'00"
36	30.63'	19.50'	90°00'00"
43	30.63'	19.50'	90°00'00"
44	32.62'	19.50'	95°51'01"

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

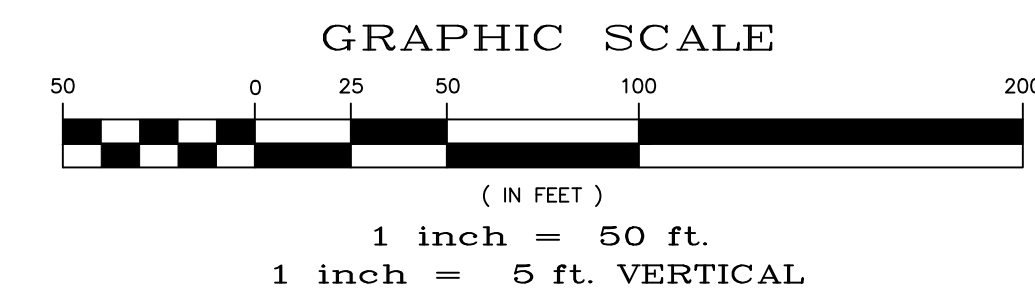


**TWO WORKING DAYS
BEFORE YOU DIG
CALL 811**

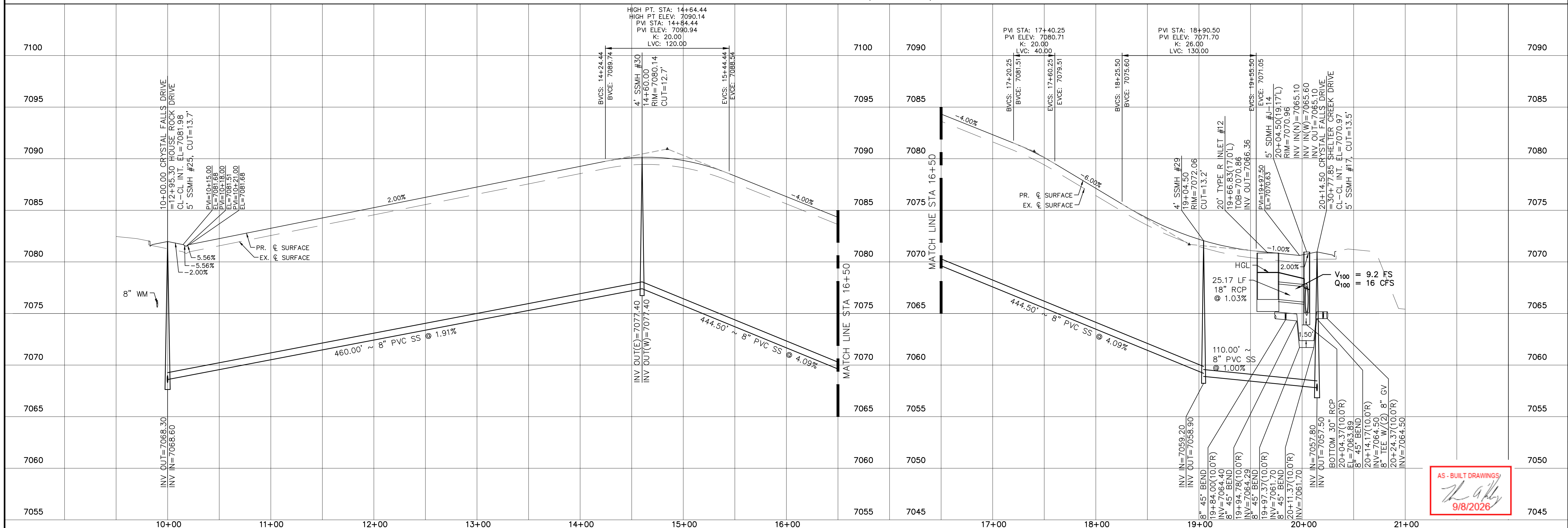
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

CRYSTAL FALLS DRIVE

URBAN LOCAL, DESIGN SPEED 25 MPH
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

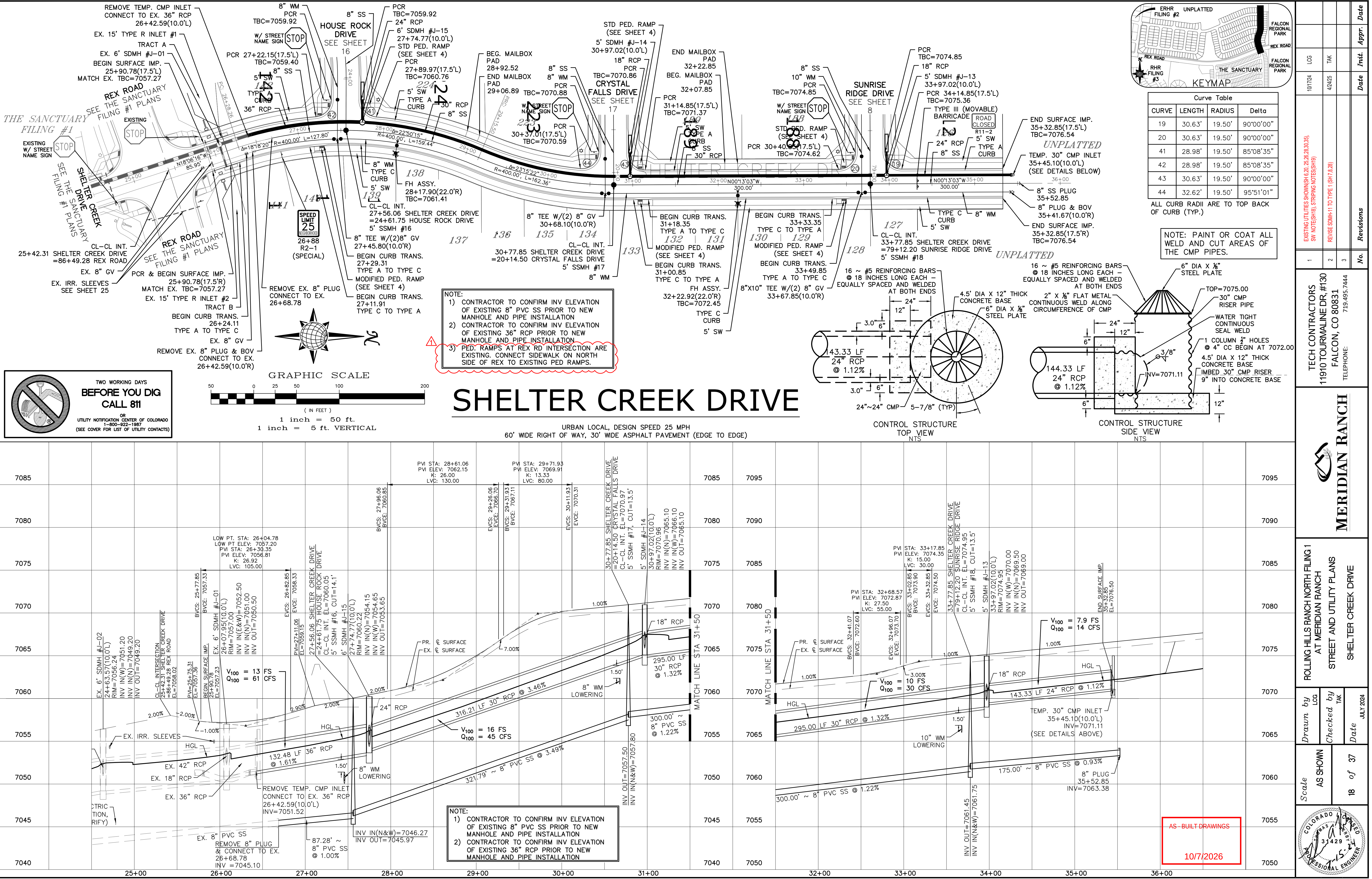


	Scale AS SHOWN	Drawn by LCG	ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS CRYSTAL FALLS DRIVE	 MERIDIAN RANCH	TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.695.7444	1						
		Checked by TAK				2						
		Date JULY 2024				3						
		17 of 37				4						
						No.	Revisions	Date	Init.	Appr.	Date	



AS - BUILT DRAWINGS
9/8/2026





Scale	AS SHOWN	Scale	18	of	37	Date	JULY 2024
Drawn by	LOG	Checked by	TAK			Date	
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS SHELTER CREEK DRIVE				TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE 719.495.7444			
MERIDIAN RANCH				EXISTING UTILITIES SHOWN(SH. 20, 25, 26, 28, 30, 35) SW. NOTES(SH. 18), STRIPING NOTES(SH. 19) REVISE SDMH-11 TO TYPE (SH. 7, 8, 20)			
Date				10/17/24		4/24/25	
Appr.				LOG		TAK	



TWO WORKING DAYS
BEFORE YOU DIG
CALL 811

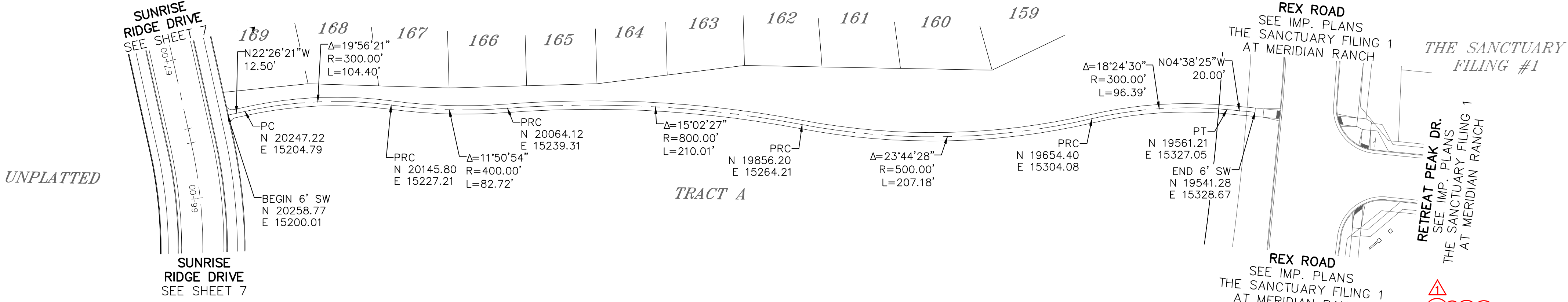
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

SIDEWALK & STRIPING PLAN

GRAPHIC SCALE



(IN FEET)
1 inch = 50 ft.



UNPLATTED

SUNRISE RIDGE DRIVE
SEE SHEET 7

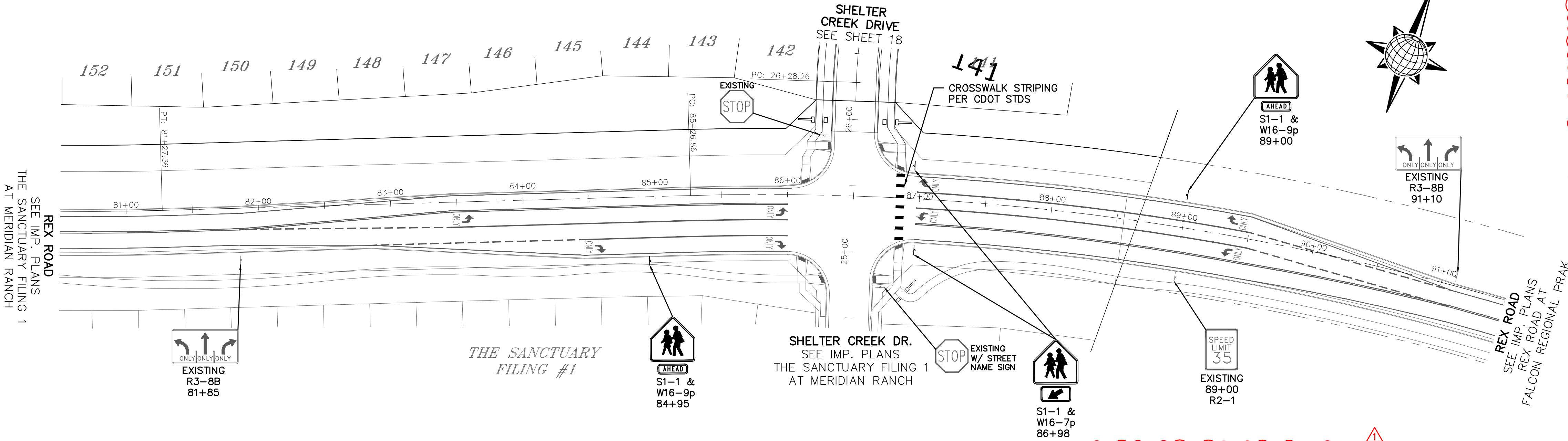
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TRACT A

REX ROAD
SEE IMP. PLANS
THE SANCTUARY FILING 1
AT MERIDIAN RANCH

THE SANCTUARY
FILING #1

RETRACT PEAK DR.
SEE IMP. PLANS
THE SANCTUARY FILING 1
AT MERIDIAN RANCH



152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106 105 104 103 102 101 100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81

TRACT B

SHELTER CREEK DRIVE
SEE SHEET 18

EXISTING STOP

CROSSWALK STRIPING
PER CDOT STDS

EXISTING R3-8B
81+85

EXISTING S1-1 & W16-9p
89+00

EXISTING R3-8B
91+10

EXISTING S1-1 & W16-7p
86+98

EXISTING S1-1 & W16-9p
84+95

THE SANCTUARY
FILING #1

REX ROAD
SEE IMP. PLANS
THE SANCTUARY FILING 1
AT MERIDIAN RANCH

SHELTER CREEK DR.
SEE IMP. PLANS
THE SANCTUARY FILING 1
AT MERIDIAN RANCH

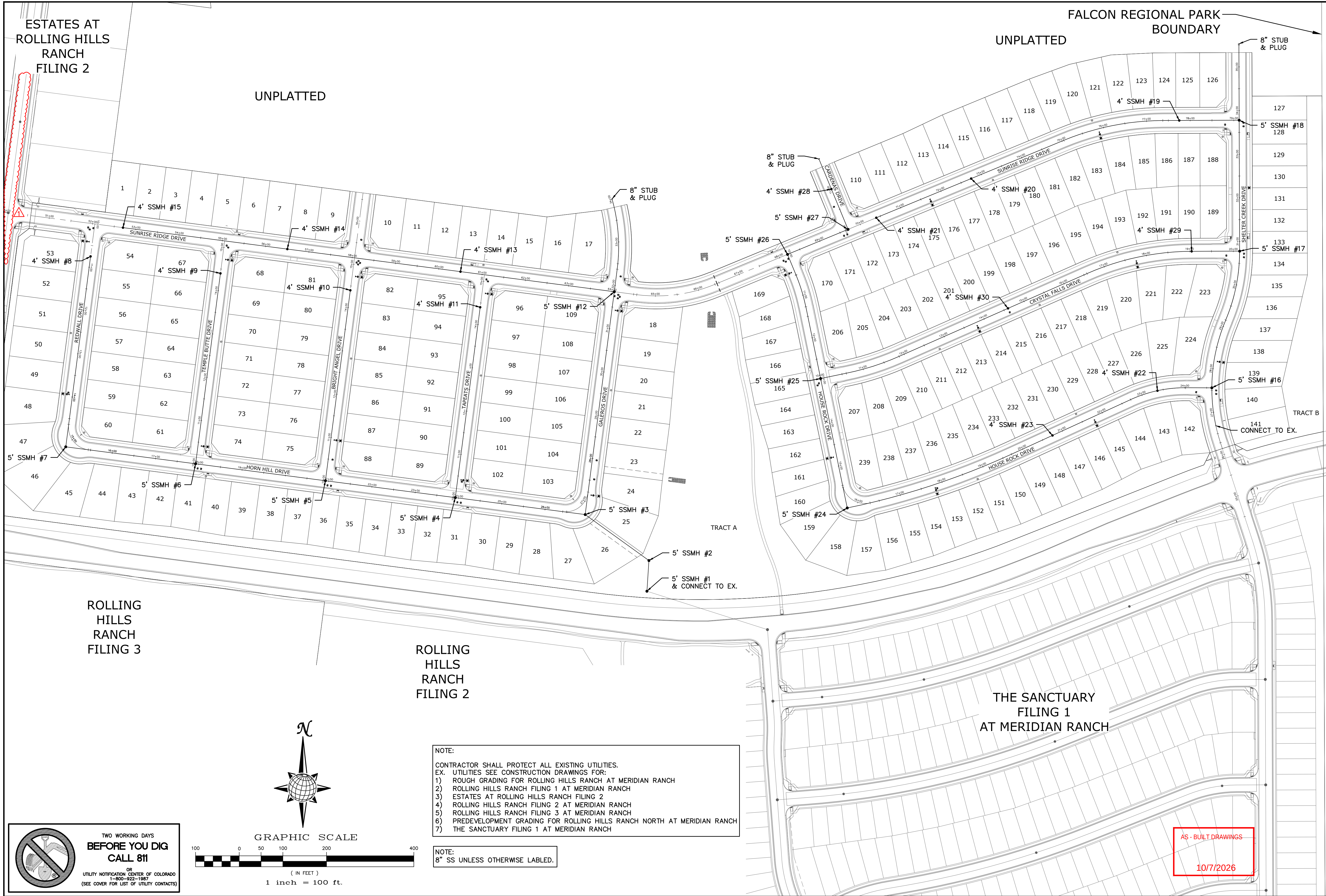
SIGNING AND STRIPING NOTES:

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 35 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 12" 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". SIGNAL POLE MOUNTED AND OVERHEAD STREET NAME SIGNS SHALL BE PER MUTCD SIZE STANDARDS.
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 A MINIMUM OF 8' LONG PER CDOT S-627-1. (CROSSWALK LINES 9' LONG ARE PREFERRED.)
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.

NOTE:
1) ALL STRIPING IS EXISTING EXCEPT FOR THE CROSSWALK STRIPING

02/23/2022

Scale	AS SHOWN	19	of	37	Date	02/23/2022
Drawn by	LOG	Checked by	TAK	Date	JULY 2024	
Rolling Hills Ranch North Filing 1 at Meridian Ranch Street and Utility Plans Sidewalk + Striping Plan						
Tech Contractors	11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE 719.495.7444					
Revisions	No.					
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	Scale	AS SHOWN		ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS		 MERIDIAN RANCH	TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444		1	EXISTING UTILITIES SHOWN(SH.6.20, 25, 26, 28, 30, 35), SW NOTE(SH.18), STRIPING NOTES(SH.19)		10/17/24	LOG		
									2	REVISE SDDM-11 TO TYPE 1 (SH.7.2.20)		4/24/25	TAK		
									3						
	20 of 37			OVERALL SANITARY SEWER											
				Date	JULY 2024				No.	Revisions		Date	Init.	Appr.	Date

[illegible]

ESTATES AT ROLLING HILLS RANCH FILING 2

UNPLATTED

SUNRISE RIDGE DRIVE

HORN HILL DRIVE

REDWALL DRIVE

TEMPLE BUTTE DRIVE

BRIGHT ANGEL DRIVE

TAPEATS DRIVE

GALEROS DRIVE

NOTE:

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.

EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:

- 1) ROUGH GRADING FOR ROLLING HILLS RANCH AT MERIDIAN RANCH
- 2) ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH
- 3) ESTATES AT ROLLING HILLS RANCH FILING 2
- 4) ROLLING HILLS RANCH FILING 2 AT MERIDIAN RANCH
- 5) ROLLING HILLS RANCH FILING 3 AT MERIDIAN RANCH
- 6) PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH
- 7) THE SANCTUARY FILING 1 AT MERIDIAN RANCH

GRAPHIC SCALE

1 inch = 50 ft.

ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL SANITARY SEWER SERVICES

TECH CONTRACTORS

11910 TOURMALINE DR. #130
FALCON, CO 80831
TELEPHONE: 719.695.7444

MERIDIAN RANCH

Revisions

No.	Date	Init.	Appr.	Date
1				
2				
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4				

Scale

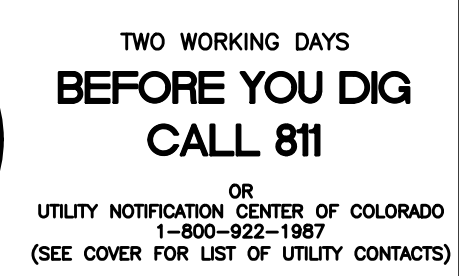
AS SHOWN

21 of 37

AS - BUILT DRAWINGS

9/8/2026

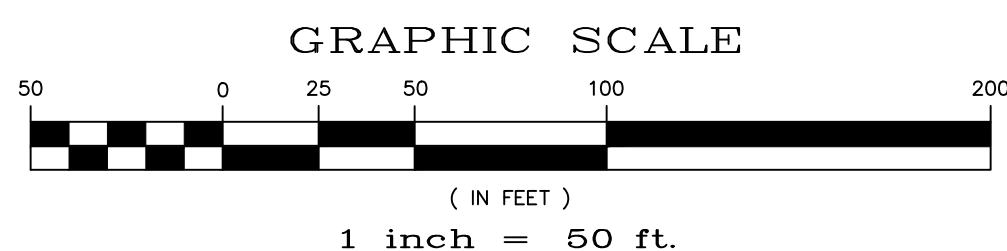
PROFESSIONAL ENGINEER



UNPLATTED

CRYSTAL FALLS DRIVE

THE SANCTUARY
FILING 1
AT MERIDIAN RANCH



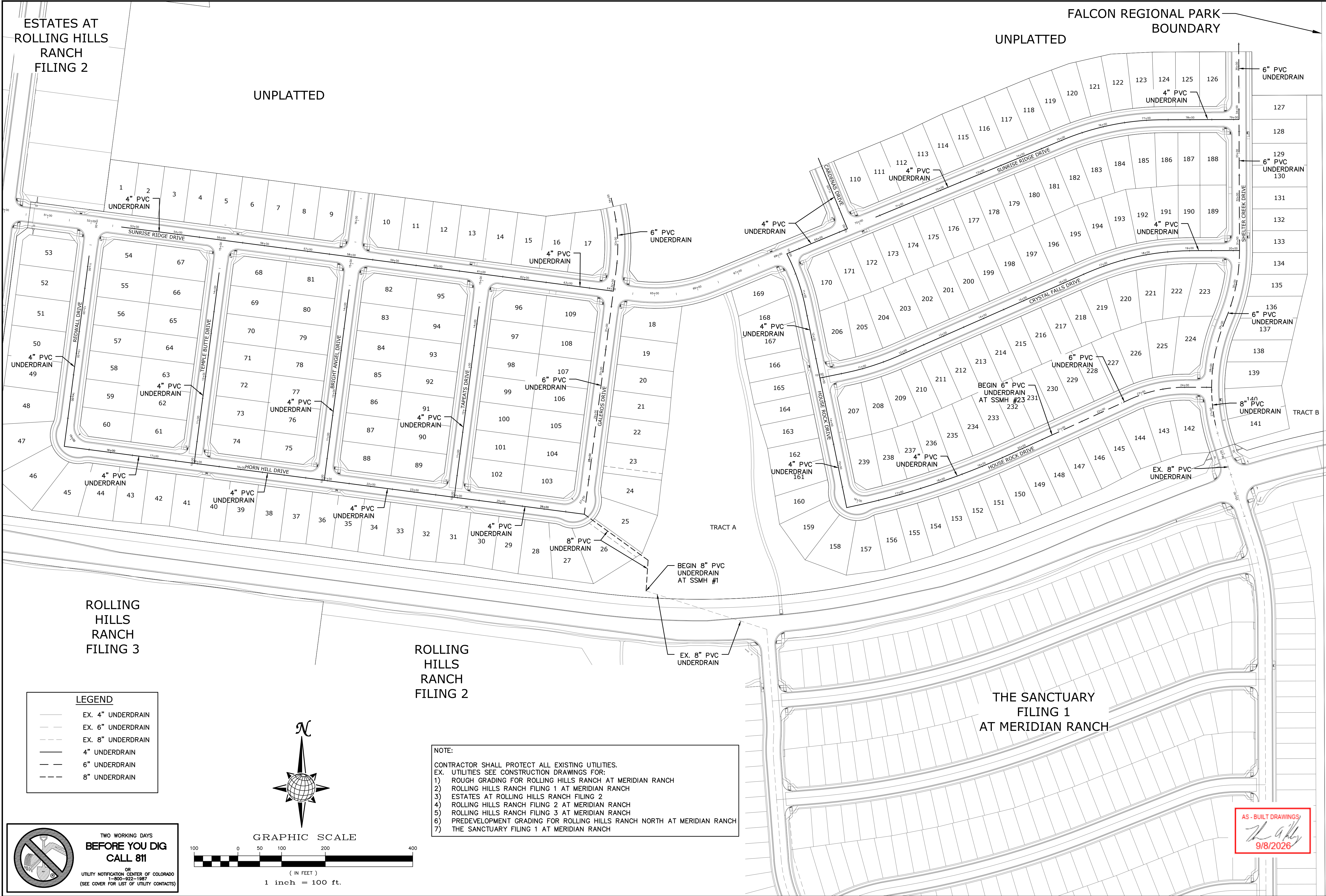
AS - BUILT DRAWINGS
9/8/2026

NOTE:

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

- 1) ROUGH GRADING FOR ROLLING HILLS RANCH AT MERIDIAN RANCH
- 2) ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH
- 3) ESTATES AT ROLLING HILLS RANCH FILING 2
- 4) ROLLING HILLS RANCH FILING 2 AT MERIDIAN RANCH
- 5) ROLLING HILLS RANCH FILING 3 AT MERIDIAN RANCH
- 6) PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH
- 7) THE SANCTUARY FILING 1 AT MERIDIAN RANCH

	Scale	Drawn by LCG Checked by TJK Date JULY 2024	ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL SANITARY SEWER SERVICES	 MERIDIAN RANCH	TECH CONTRACTORS 11910 TOURMALINE DR, #130 FALCON, CO 80831 TELEPHONE: 719.495.7444	1				
	AS SHOWN					2				
						3				
						4				
	22 of 37					No.	Revisions	Date	Invt.	Appr.



Scale

AS SHOWN

23 of 37

Drawn by

Log

Checked by

TAK

Date

JULY 2024

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

TECH CONTRACTORS
11910 TOURMALINE DR. #130
FALCON, CO 80831
TELEPHONE 719.495.7444

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No.

Revisions

Date

Init.

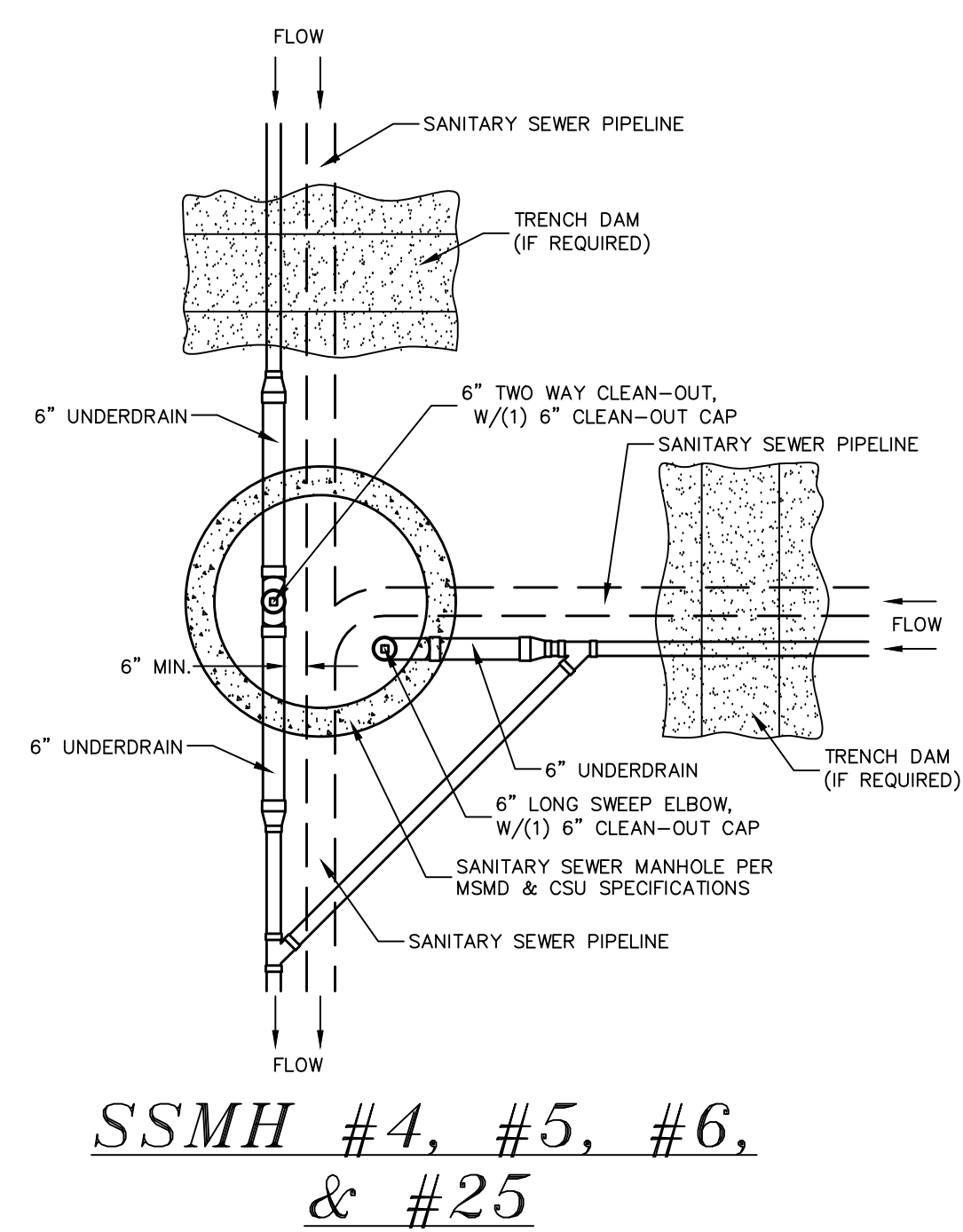
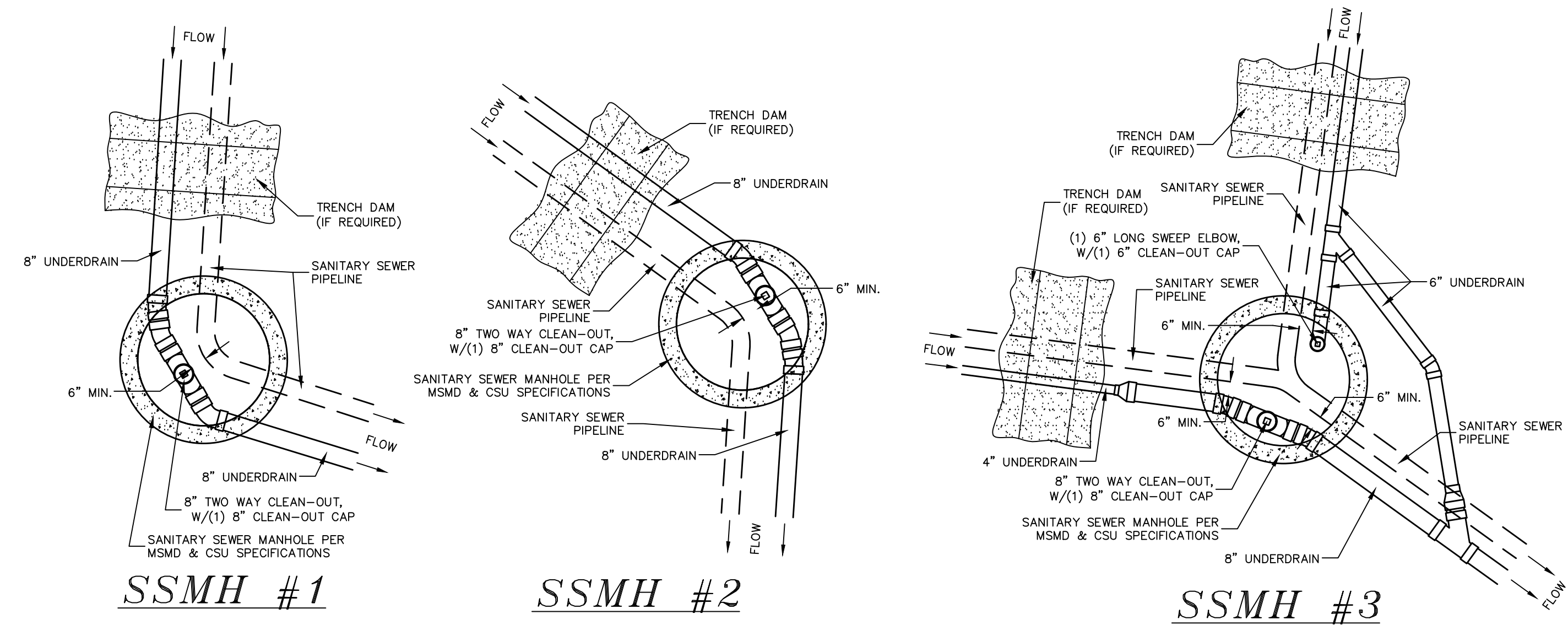
Appr.

Date

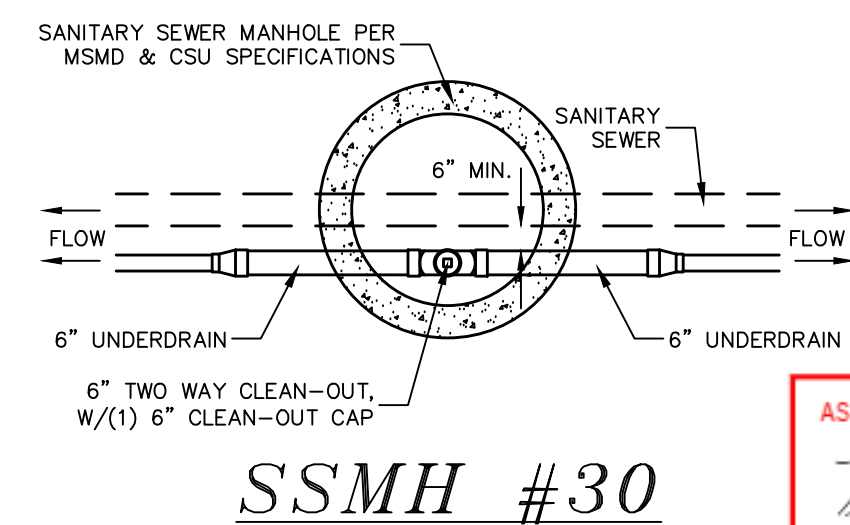
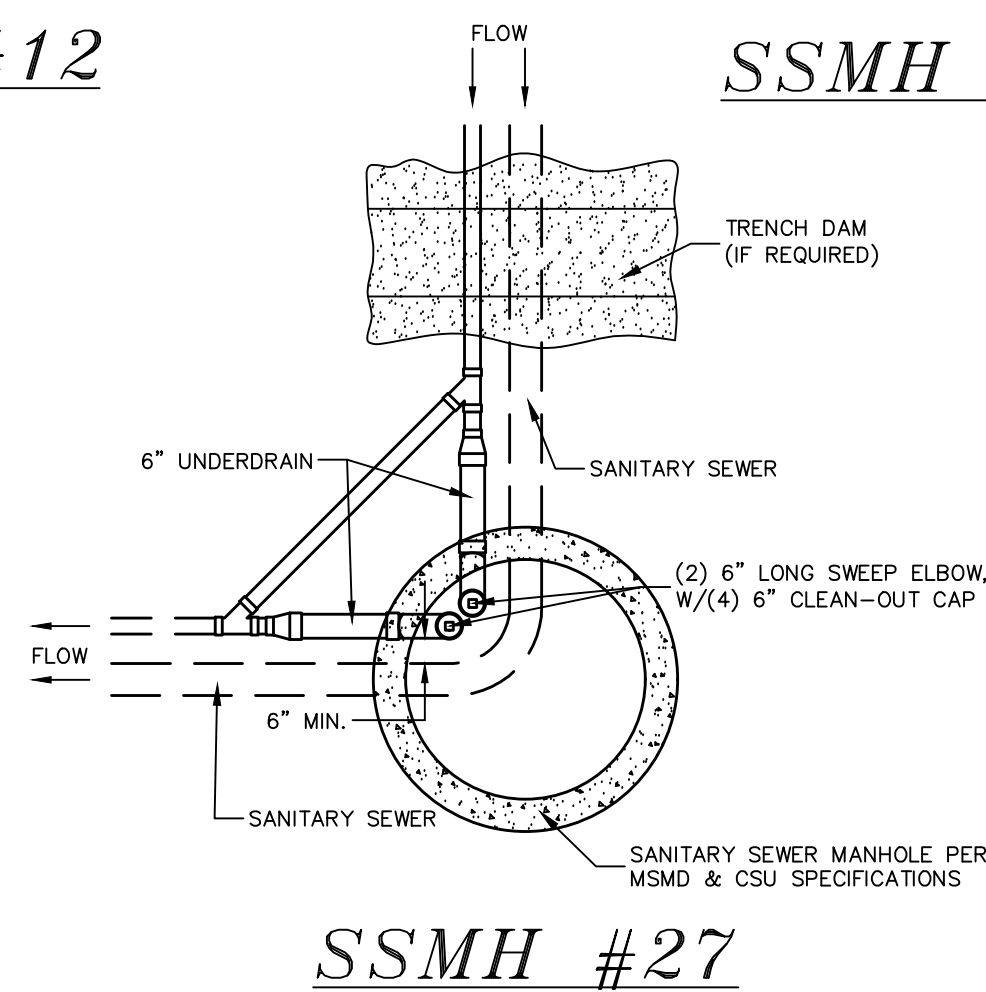
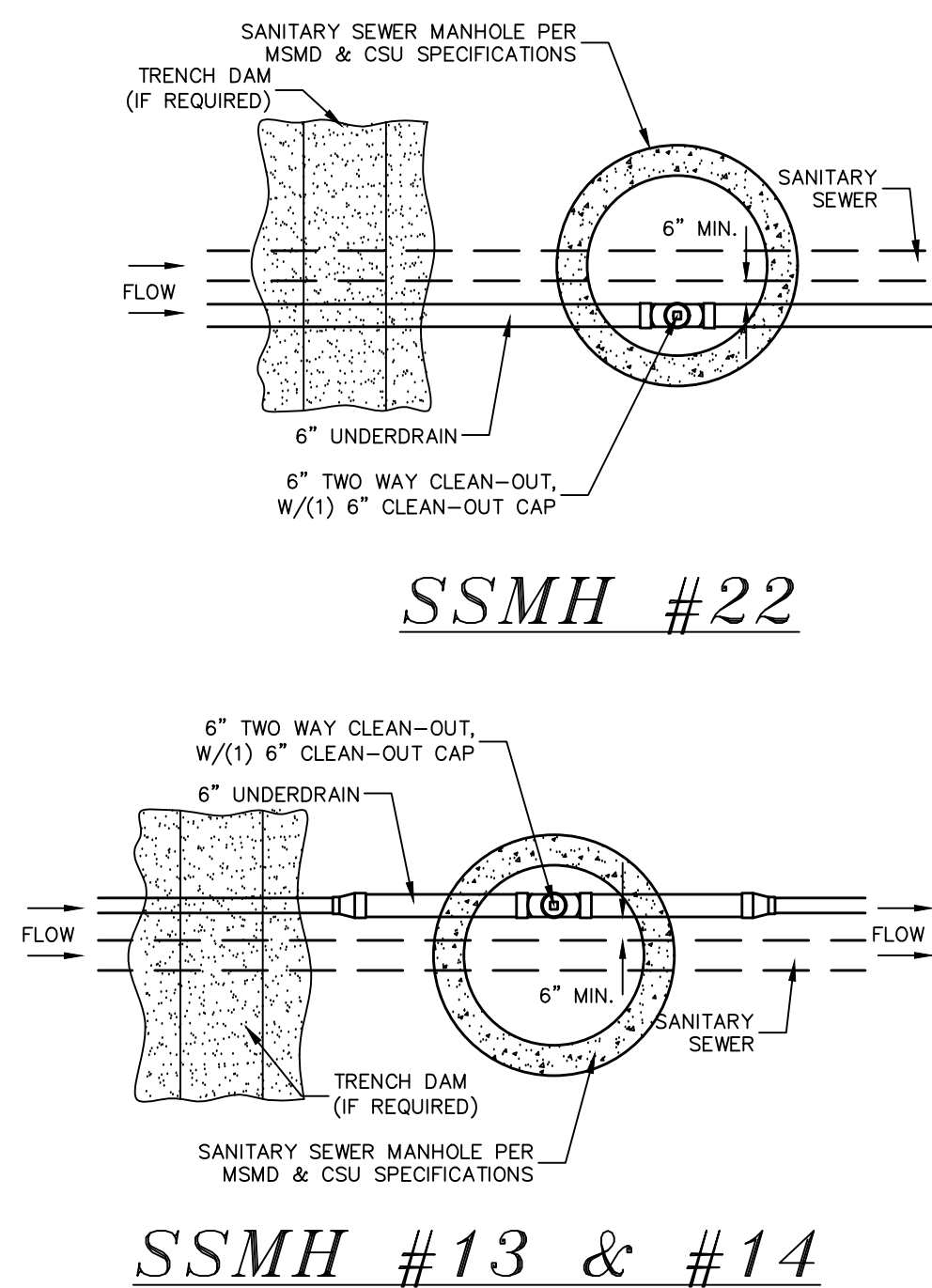
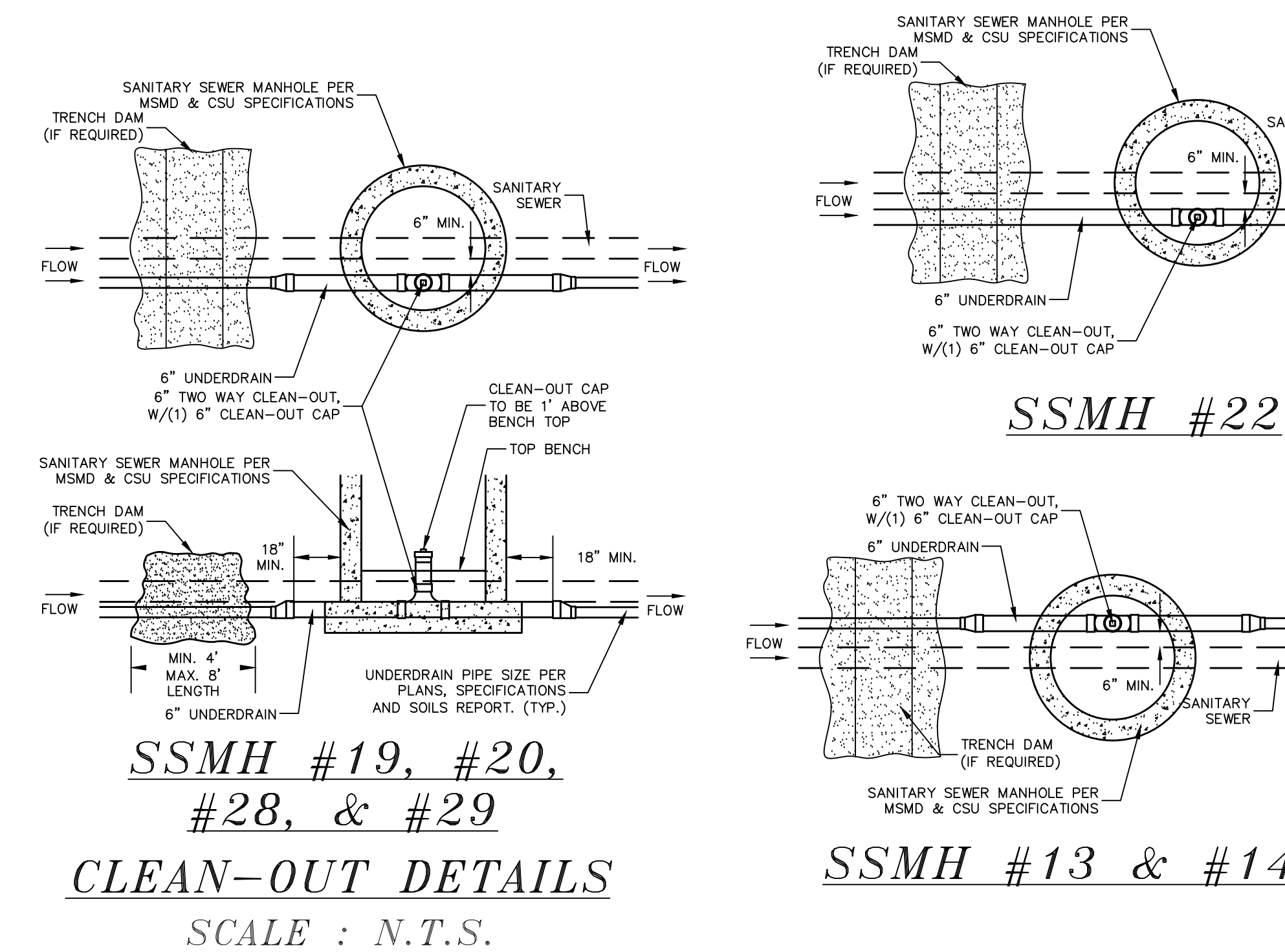
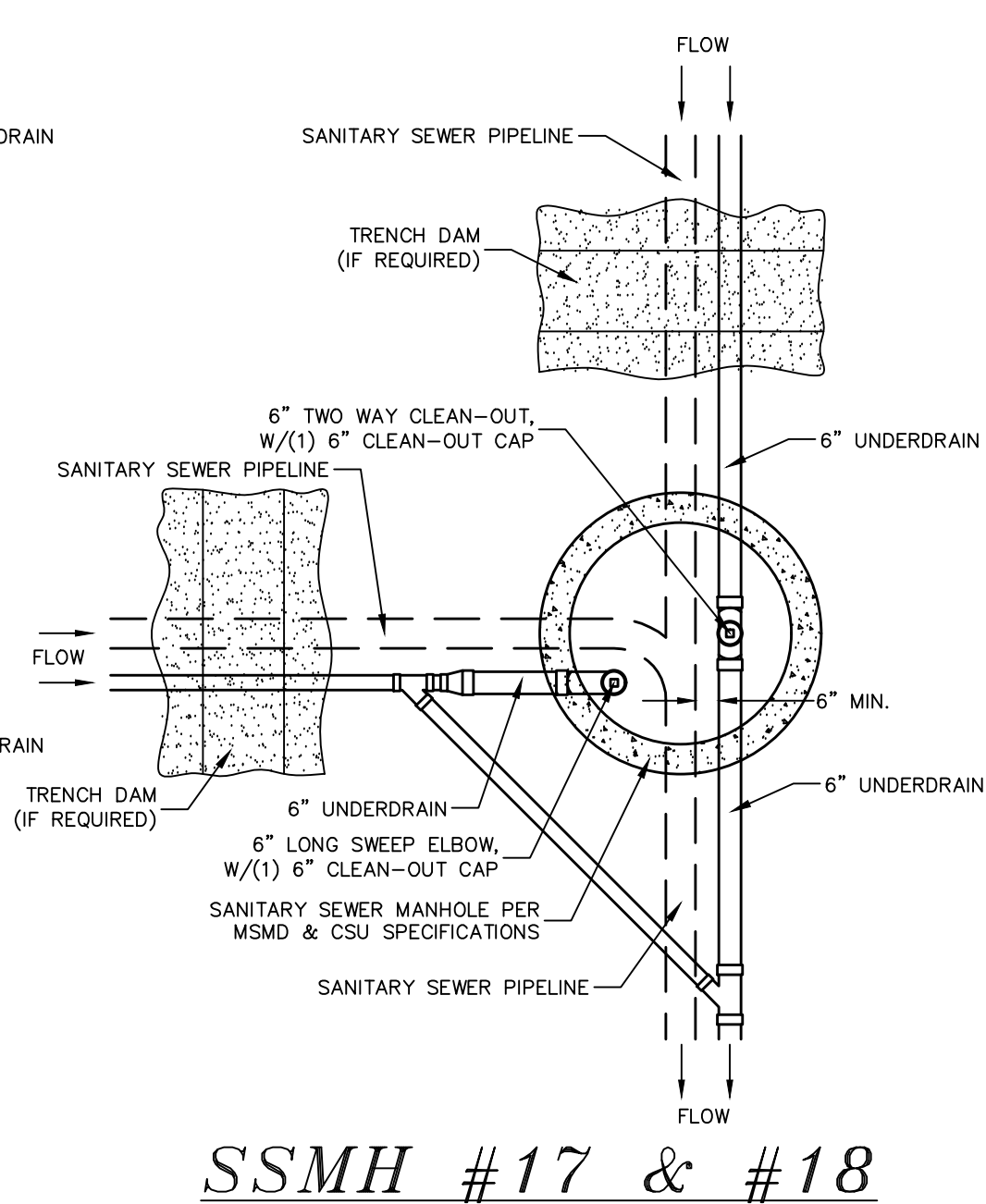
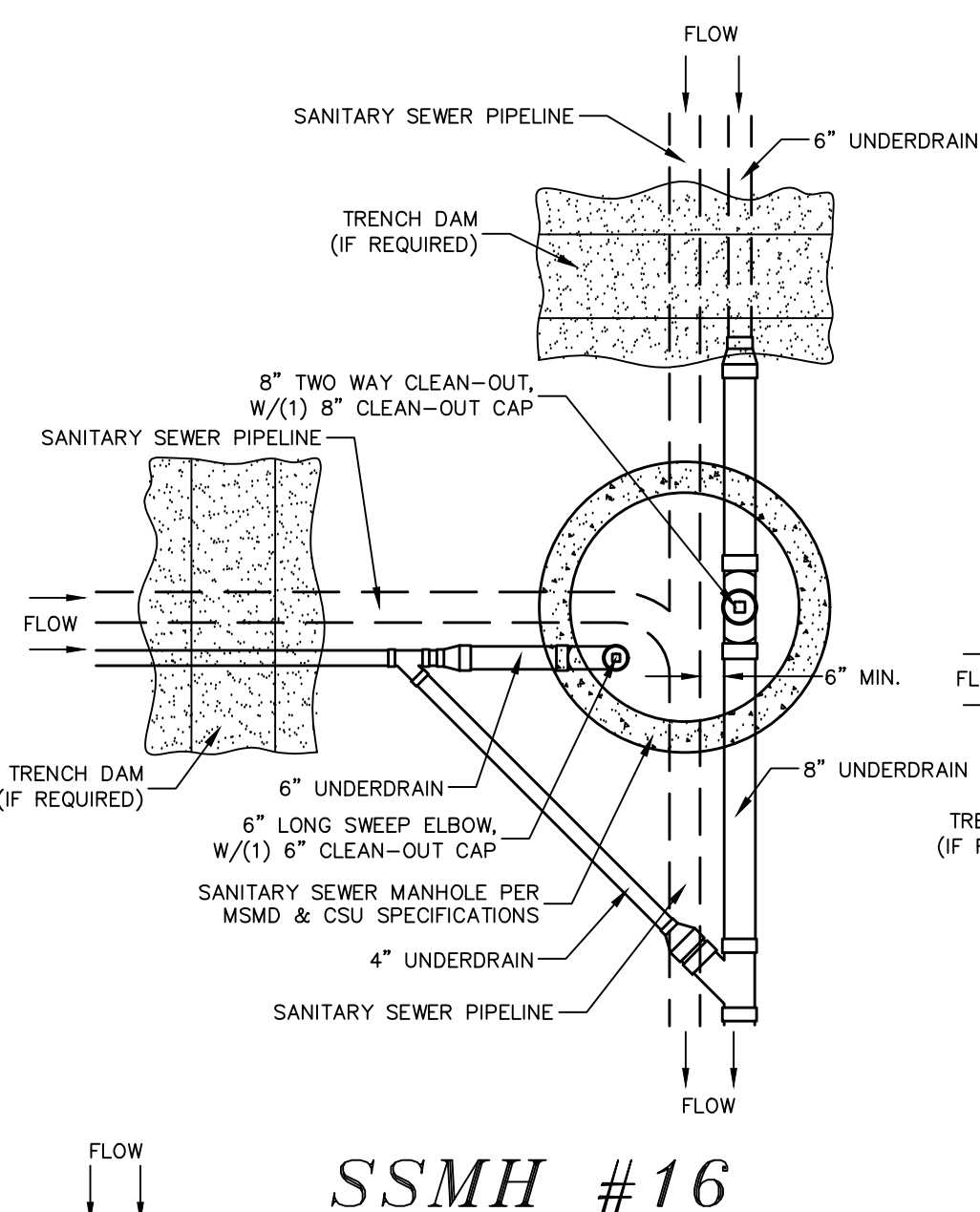
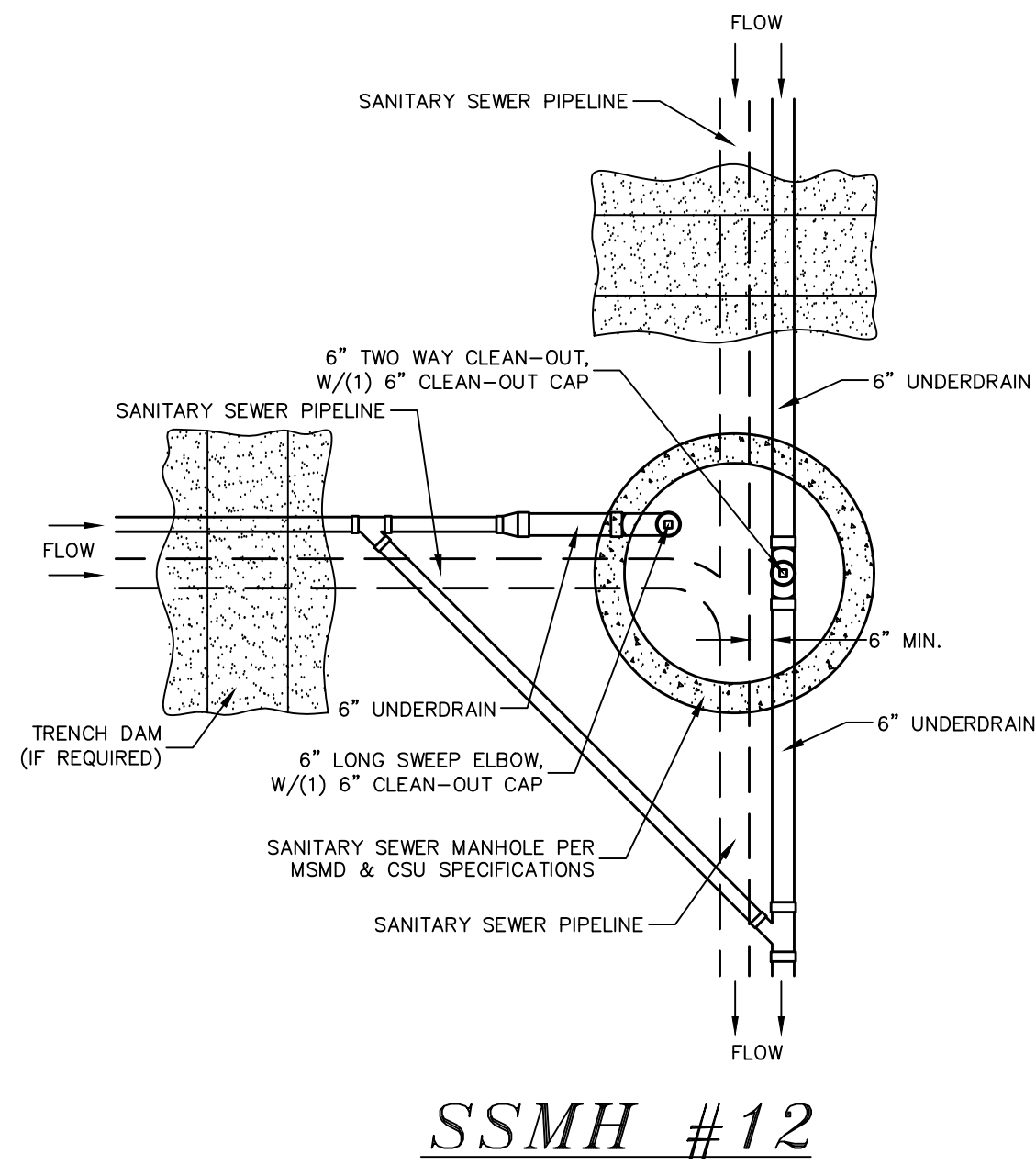
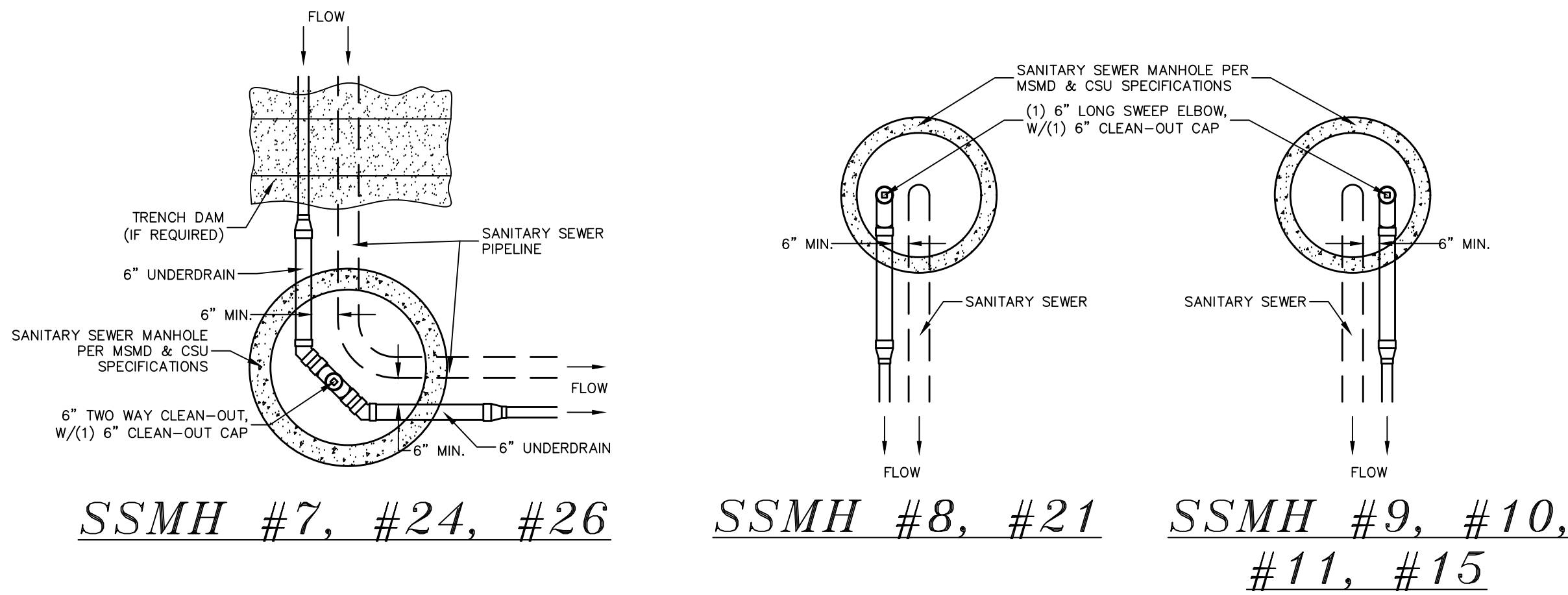
MERIDIAN RANCH

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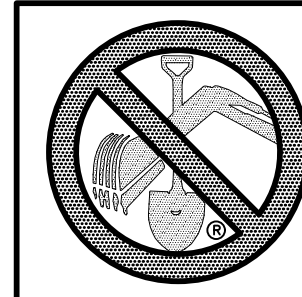
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- NOTES:
1. THE UNDERDRAIN SYSTEM SHALL BE PASSIVE, WATER TIGHT, NON-- PERFORATED PIPE, WITH THE MAIN LINE SIZE DESIGNED BY THE ENGINEER. ALL UNDERDRAIN PIPES AND FITTINGS SHALL BE SDR 35 PVC, OR MSMD APPROVED EQUAL, INSTALLED PER THE SAME INSTALLATION STANDARDS AS OUTLINED BY CSUS FOR SANITARY SEWER SYSTEMS. THE UNDERDRAIN SYSTEM AT EACH SANITARY SEWER MANHOLE SHALL CONTAIN 6" CLEAN-OUTS IN EACH UNDERDRAIN MAIN DIRECTION PER THE CLEAN-OUT DETAIL. ALL LOTS SHALL RECEIVE A WHITE 3" UNDERDRAIN SERVICE LATERAL ADJACENT TO THE SANITARY SEWER SERVICE LATERAL.
 2. TESTING OF THE UNDERDRAIN SYSTEM WILL CONSIST OF VISUAL INSPECTIONS FOR WATER IN THE SYSTEM, ALONG WITH A VIDEO INSPECTION PERFORMED BY MSMD PERSONNEL. ALL UNDERDRAIN MAINS AND DOWNSTREAM INFILTRATION STRUCTURES SHALL BE CLEAN AND DEBRIS FREE UPON COMPLETION OF THE SYSTEM AND PRIOR TO CCTV. ALL UNDERDRAIN MAINS SHALL BE CCTV INSPECTED BY MSMD AND REVIEWED FOR APPROVAL. THE SPECIFICATION FOR ALLOWABLE STANDING WATER AND WATER INFILTRATION IN THE UNDERDRAIN SYSTEM SHALL BE THE SAME AS PER CSUS FOR SANITARY SEWER SYSTEMS. IF EXCESS WATER IS OBSERVED IN THE UNDERDRAIN SYSTEM, THE CONTRACTOR SHALL LOCATE THE SOURCE OF WATER INFILTRATION AND REPAIR AS NECESSARY TO MEET CSUS.
 3. IF THE UNDERDRAIN MAIN HAS LOW SPOTS THAT EXCEED CSUS STANDARDS, THE CONTRACTOR SHALL REPAIR THE LINE AS NECESSARY TO MEET CSUS. UNDERDRAIN MAINS THAT DO NOT MEET MSMD STANDARDS SHALL BE REPLACED AND OR REPAIRED AS NECESSARY. THE CONTRACTOR SHALL RE-CCTV INSPECT THE UNDERDRAIN MAIN LINES AFTER THE REPAIRS HAVE BEEN MADE WITH ONE VIDEO SUBMITTED TO MSMD FOR REVIEW AND APPROVAL.
 4. UNDER DRAIN MAIN LINES SHALL HAVE CONTINUOUS POSITIVE DRAINAGE TO THE POINT OF DISCHARGE INTO A BELOW GRADE APPROVED UNDERDRAIN INFILTRATION STRUCTURE WHEREVER POSSIBLE. UNDERDRAIN INFILTRATION STRUCTURES SHALL BE DESIGNED WITH OVERFLOW LINES FOR FUTURE EXPANSION AS NEEDED. IF GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION OF THE INFILTRATION STRUCTURE, STOP INSTALLATION AND CONTACT THE DISTRICT ENGINEER FOR POSSIBLE ALTERNATE DESIGN.
 5. UNDERDRAINS WILL DAYLIGHT AT LOCATIONS SHOWN ON THE DRAWINGS.
 6. UNDERDRAIN CLEANOUTS SHALL BE 6 INCH AND SHALL BE LOCATED AT EVERY MANHOLE. UNDERDRAIN CLEANOUTS AND CLEANOUT CONSTRUCTION WILL LEAVE NO INFILTRATION WITHIN SEWER MANHOLES. MANHOLE PENETRATIONS TO BE FILLED WITH NON-SHRINKING GROUT. UNDERDRAIN SIZE WILL NOT BE REDUCED THROUGH THE MANHOLE.
 7. TRENCH DAMS WILL BE PROVIDED AT INTERVALS NO GREATER THAN 350 FEET IN SANITARY SEWER SECTIONS WHERE GROUNDWATER EXISTS OR WHERE DIRECTED BY THE ENGINEER. A TRENCH DAM WILL BE CONSTRUCTED WITHIN THE FIRST 100 FEET OF EITHER ENTERING OR EXITING GROUNDWATER. THE CONTRACTOR SHALL NOTIFY THE DISTRICT WHEN GROUNDWATER IS ENCOUNTERED TO REVIEW TRENCH DAM NEEDS, LOCATIONS, AND MATERIALS.
 8. TRENCH DAMS MAY BE CONSTRUCTED OF ON SITE MATERIALS IF APPROVED BY THE SOILS ENGINEER.
 9. TRENCH DAMS SHALL COMPLETELY INTERRUPT GRAVEL BEDDING AND STABILIZATION THE FULL WIDTH OF THE TRENCH FOR A LENGTH OF NO LESS THAN 4 FEET BUT NO GREATER THAN 8 FEET.
 10. TRENCH DAMS SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR AROUND THE SEWER AND UNDERDRAIN PIPELINES.
 11. IF ALTERNATE MATERIALS (CONCRETE) OR SOIL AMENDED TRENCH DAMS ARE NECESSARY OR REQUIRED BY THE ENGINEER, THE DAMS SHALL BE EXTENDED A MINIMUM OF 6 FEET ABOVE THE PIPELINE BUT IN NO CASE CLOSER THAN 6' FROM THE SURFACE.

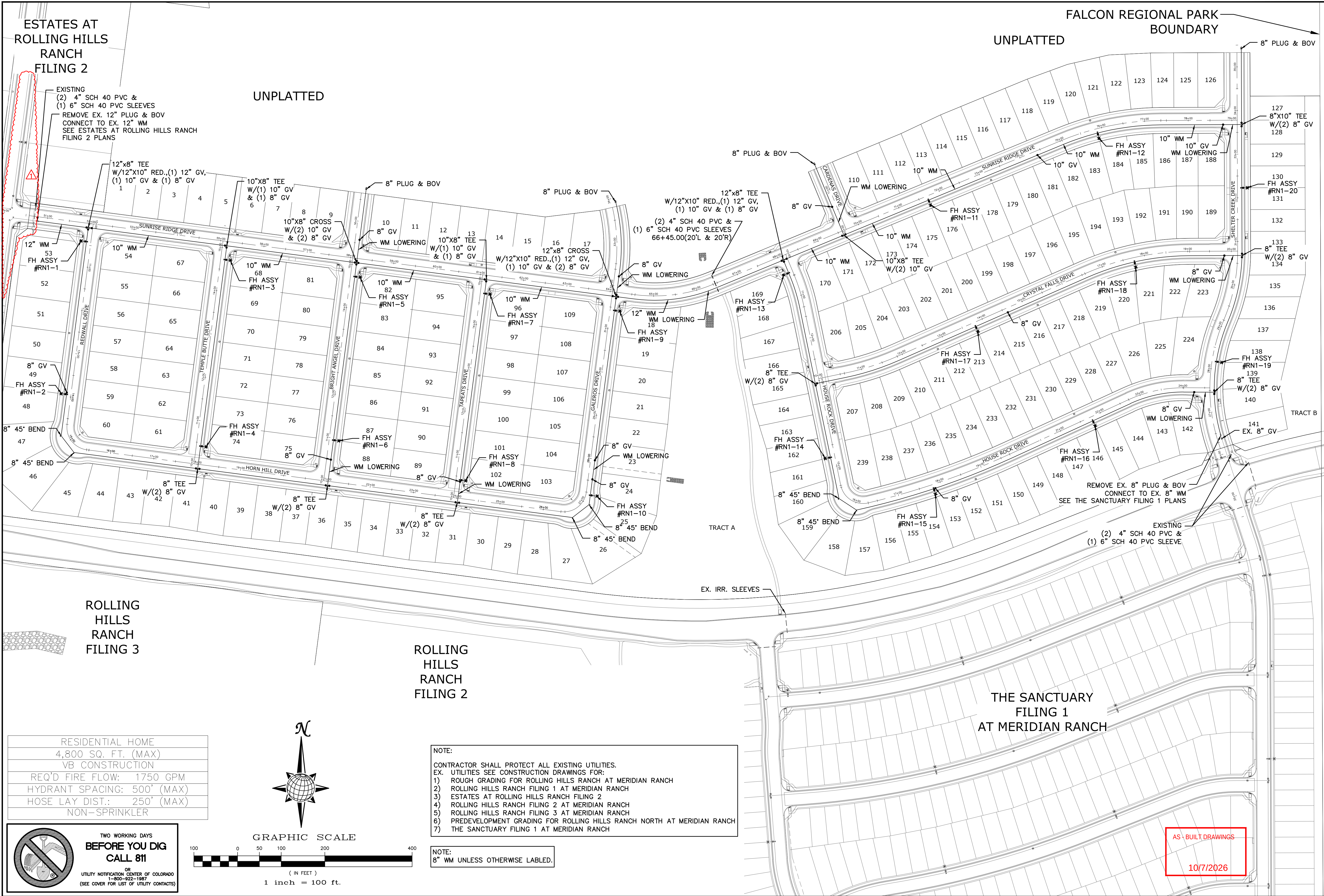


AS-BUILT DRAWINGS
9/8/2026



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		Date		Date	
Init.		Init.		Init.	
Revisions		Revisions		Revisions	
No.		No.		No.	
1		2		3	
4		5		6	
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE 719.495.7444					
MERIDIAN RANCH					
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS UNDERDRAIN DETAILS					
Drawn by	LOG	Checked by	TAK	Date	JULY 2024
Scale	AS SHOWN	24	of 37		
PCD PROJECT NO. SF2411					

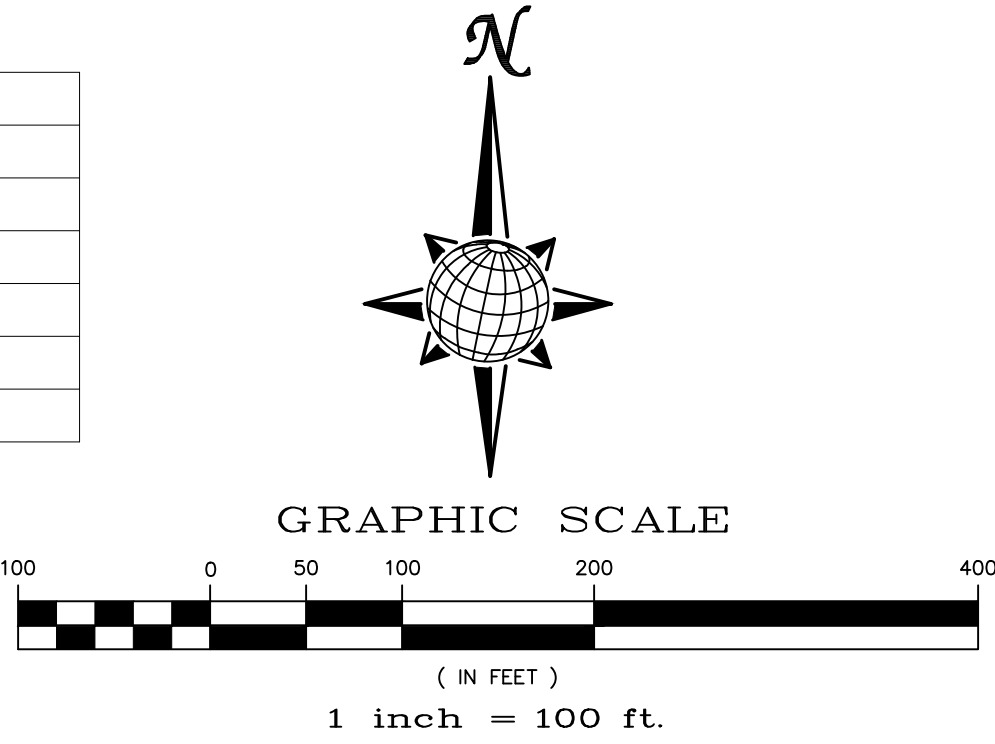


RESIDENTIAL HOME	
4,800 SQ. FT. (MAX)	
VB CONSTRUCTION	
REQ'D FIRE FLOW: 1750 GPM	
HYDRANT SPACING: 500' (MAX)	
HOSE LAY DIST.: 250' (MAX)	
NON-SPRINKLER	



TWO WORKING DAYS
BEFORE YOU DIG
CALL 811

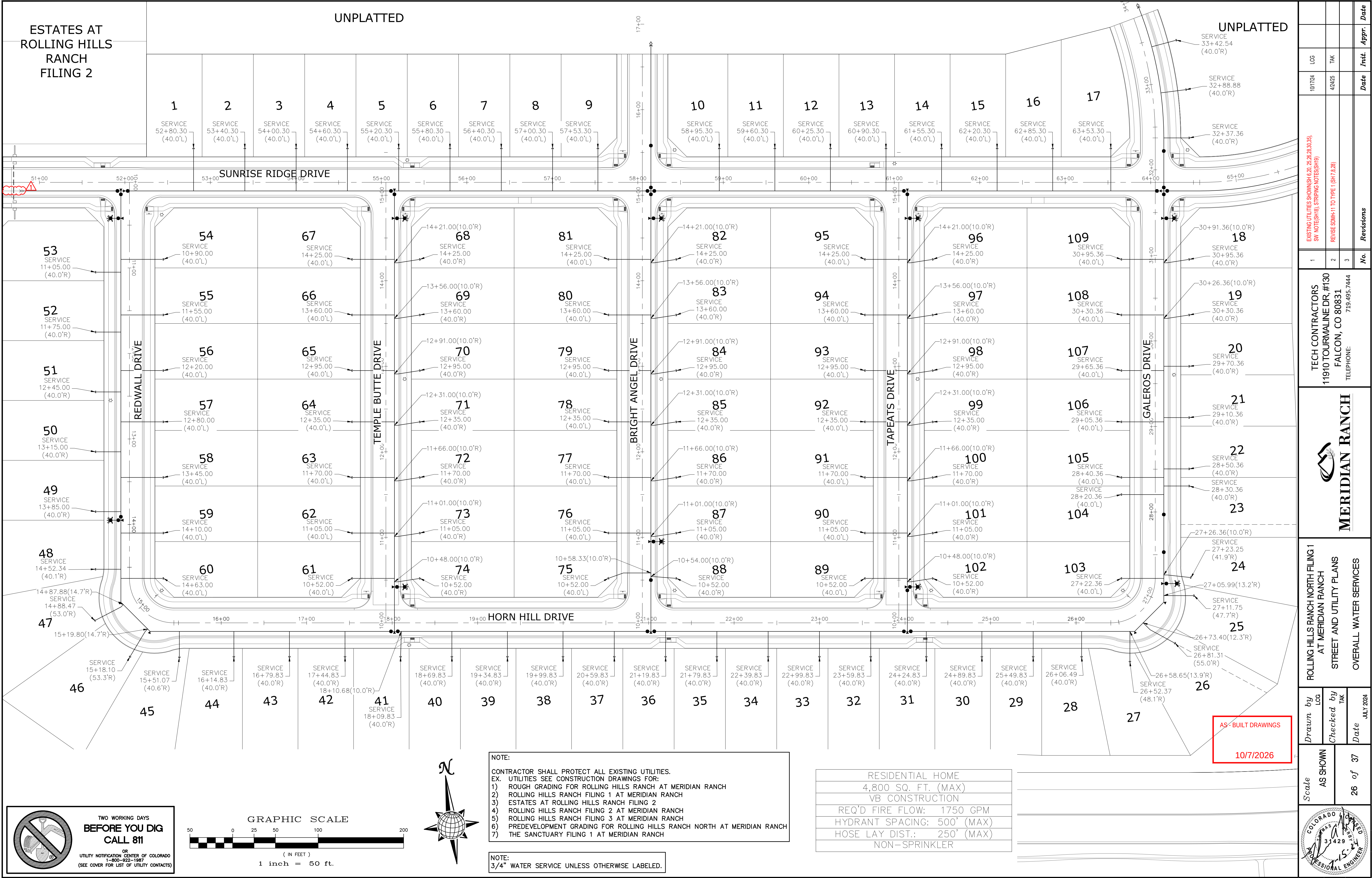
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
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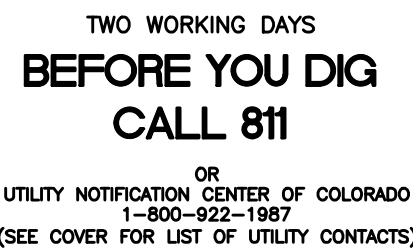


NOTE:
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
1) ROUGH GRADING FOR ROLLING HILLS RANCH AT MERIDIAN RANCH
2) ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH
3) ESTATES AT ROLLING HILLS RANCH FILING 2
4) ROLLING HILLS RANCH FILING 2 AT MERIDIAN RANCH
5) ROLLING HILLS RANCH FILING 3 AT MERIDIAN RANCH
6) PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH
7) THE SANCTUARY FILING 1 AT MERIDIAN RANCH

NOTE:
8" WM UNLESS OTHERWISE LABELED.

Scale		Drawn by		Checked by		Date	
AS SHOWN		LOG		TAK		JULY 2024	
25 of 37		10/17/24		4/24/25			
		LOG		TAK			
		10/17/24		4/24/25			
		EXISTING UTILITIES SHOWN(SH.6.20, 25, 28, 28.30, 35), SW NOTE(SH.18), STRIPING NOTES(SH.19)		REVISE SDMA-11 TO TYPE 1 (SH.7.8, 28)			
		TECH CONTRACTORS		11910 TOURMALINE DR. #130			
		FALCON, CO 80831		TELEPHONE: 719.495.7444			
		MERIDIAN RANCH					
		ROLLING HILLS RANCH NORTH FILING 1		AT MERIDIAN RANCH			
		STREET AND UTILITY PLANS		OVERALL WATER			
		1		2		3	
		No.		Revisions			
		Date		Init.		Appr.	
		Date					





UNPLATTED

CRYSTAL FALLS DRIVE

HOUSE ROCK DRIVE

THE SANCTUARY
FILING 1
AT MERIDIAN RANCH



AS - BUILT DRAWINGS
9/8/2026

GRAPHIC SCALE



(IN FEET)

1 inch = 50 ft.

NOTE:
3/4" WATER SERVICE UNLESS OTHERWISE LABELED.

NOTE:

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

- 1) ROUGH GRADING FOR ROLLING HILLS RANCH AT MERIDIAN RANCH
- 2) ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH
- 3) ESTATES AT ROLLING HILLS RANCH FILING 2
- 4) ROLLING HILLS RANCH FILING 2 AT MERIDIAN RANCH
- 5) ROLLING HILLS RANCH FILING 3 AT MERIDIAN RANCH
- 6) PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH
- 7) THE SANCTUARY FILING 1 AT MERIDIAN RANCH

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No.	Revisions	Date
	Instr.	Date

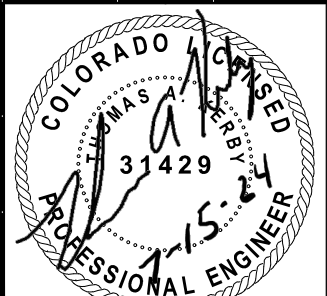
TECH CONTRACTORS
1910 TOURMALINE DR, #130
FALCON, CO 80831
TELEPHONE: 719.495.7444

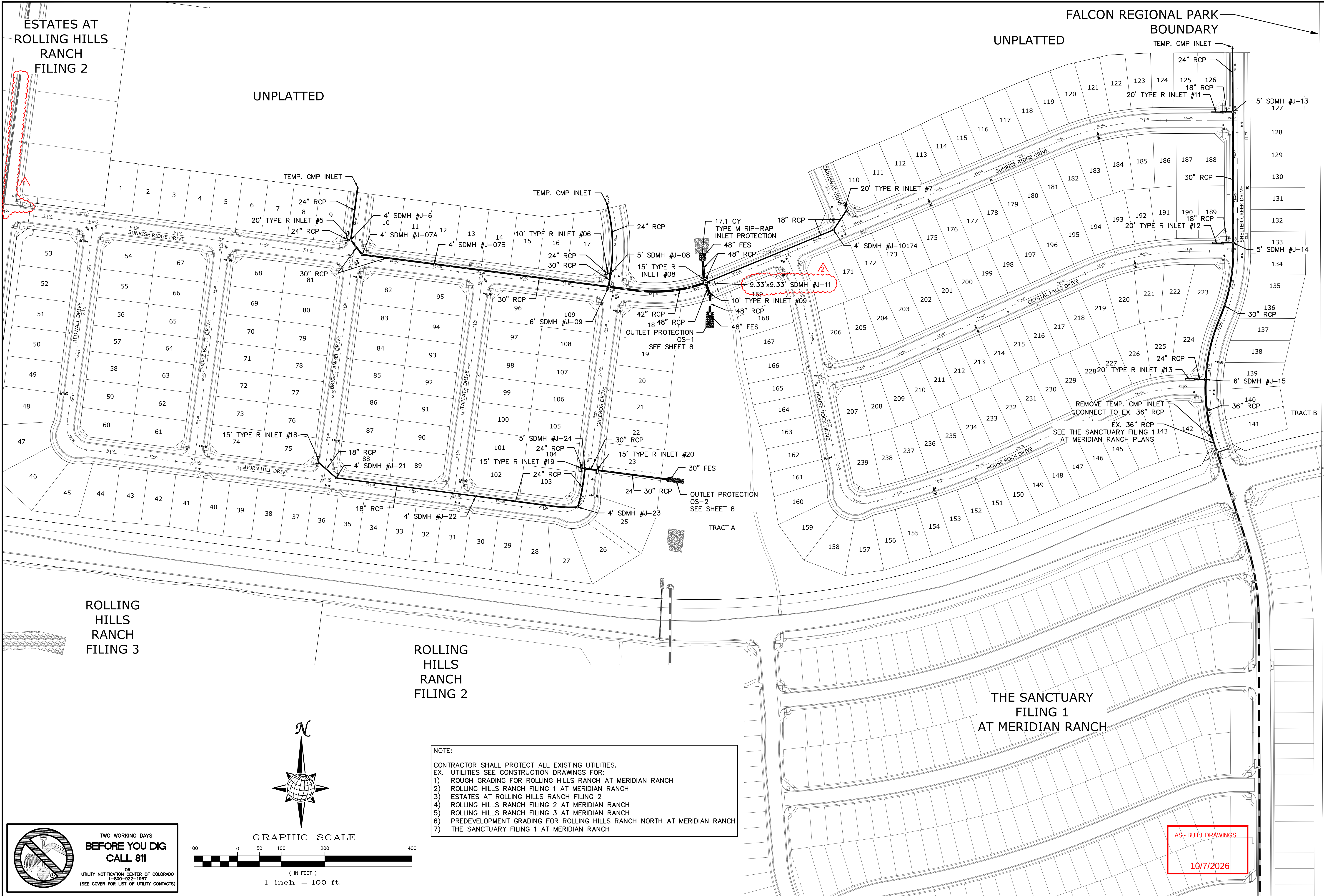


MERIDIAN RANCH

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

Scale AS SHOWN	Drawn by LCG
	Checked by TAK
	Date JULY 2024
27 of 37	



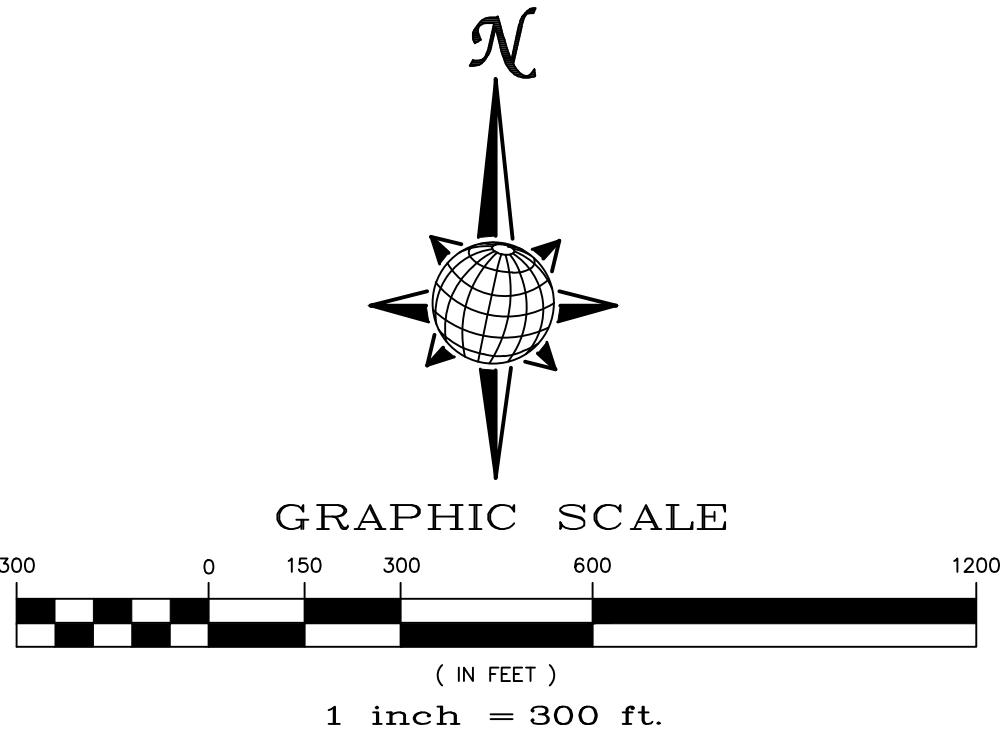


Scale AS SHOWN	28 of 37	Drawn by	ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL STORM DRAIN		 MERIDIAN RANCH	TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444	1	EXISTING UTILITIES SHOWN(SH. 6, 20, 25, 26, 28, 30, 35), SW NOTE(SH.18), STRIPING NOTES(SH.19)	10/17/24	LOG		
		Checked by	TAK	2			REVISE SDMH-11 TO TYPE 1 (SH.7 & 20)	4/24/25	TAK			
		Date	JULY 2024	3								
							No.	Revisions	Date	Init.	Appr.	Date

EL PASO COUNTY STANDARD NOTES:

1. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF SITE WATERS, INCLUDING WETLANDS.
2. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
3. A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
4. ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
5. CONTROL MEASURES MUST BE INSTALLED PRIOR COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
7. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS, ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
10. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENEED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
14. DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
19. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
20. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
24. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (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.
25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
26. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
27. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
28. THE SOILS REPORTS FOR THIS SITE ARE ROLLING HILLS RANCH NORTH FILING 1 & 2 DATED APRIL 20, 2022 AND ROLLING HILLS RANCH DATED JULY, 15, 2019 BOTH HAVE BEEN PREPARED BY ENTECH ENGINEERING, INC. AND SHALL BE CONSIDERED A PART OF THESE PLANS.
29. 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



Stage	Description	Control Measures	Begin Date	End Date
Stage 1	Overlot Grading	Silt fence & VTC Temporary Sed. Basins Swale Checks as needed Surface Roughening	June 2022	August 2022
Stage 2	Underground utilities Surface Improvements	Perimeter Control Inlet Protection	June 2024	August 2025
Stage 3	Home Construction	Inlet Protection Individual Lot Perimeter Control	August 2025	November 2026
Final Stabilization	Permit Close	Final Stabilization Permanent Seeding Permanent Measures	November 2026	

EARTHWORK QUANTITIES

NET YARDS BALANCE

TOTAL STRIPPINGS 0.11 AC. 60 CY

NET YARDS CUT FILL

 2,590 CY 8,182 CY

20% COMPACTION FACTOR

NOTE: FILL WILL BE GENERATED FROM UTILITY INSTALLATION.

NOTE:

- 1) 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.
- 2) MATERIAL STORAGE, TOPSOIL STOCKPILES(EDFCD: MM-2), STAGING(UDFCD: SM-6), CONCRETE WASHOUT AND WASTE AREAS SHALL BE IDENTIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION AND ADJUSTED AS NECESSARY.
- 3) THERE IS NO CONCRETE BATCH PLANT ASSOCIATED WITH THIS PROJECT.
- 4) NO SLOPES GREATER THAN 3:1 ARE EXPECTED ON THIS SITE. SLOPES GREATER THAN 3:1 REQUIRE EROSION CONTROL BLANKET.
- 5) MIRIFI FABRIC TO BE PLACED BELOW ALL RIP-RAP.

AS - BUILT DRAWINGS

9/8/2026



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



MERIDIAN RANCH

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

Scale AS SHOWN

29 of 37

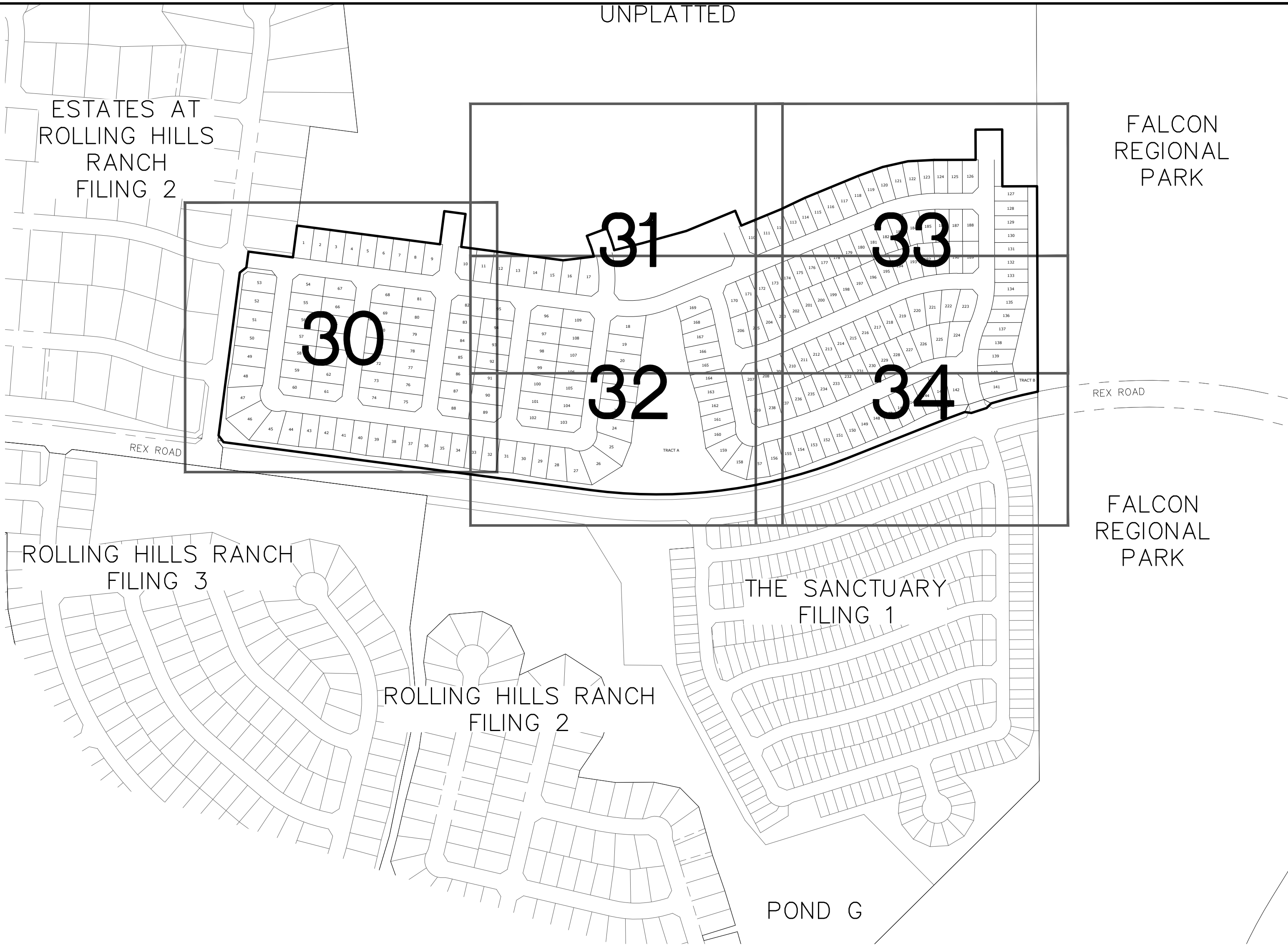
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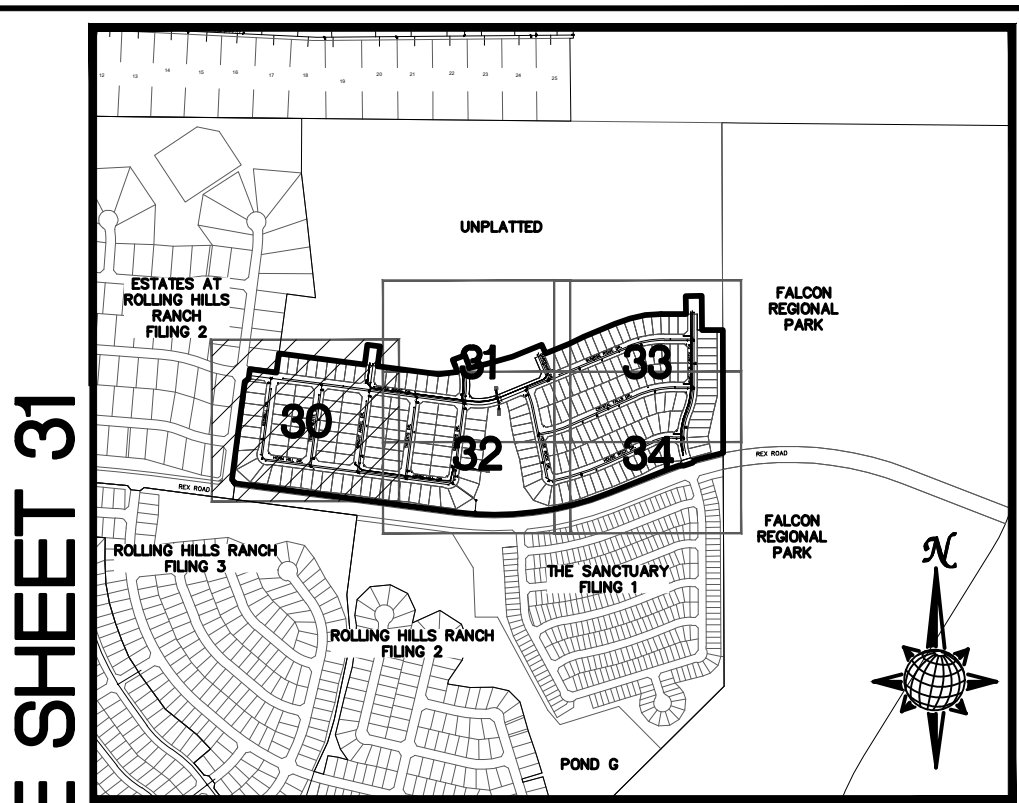
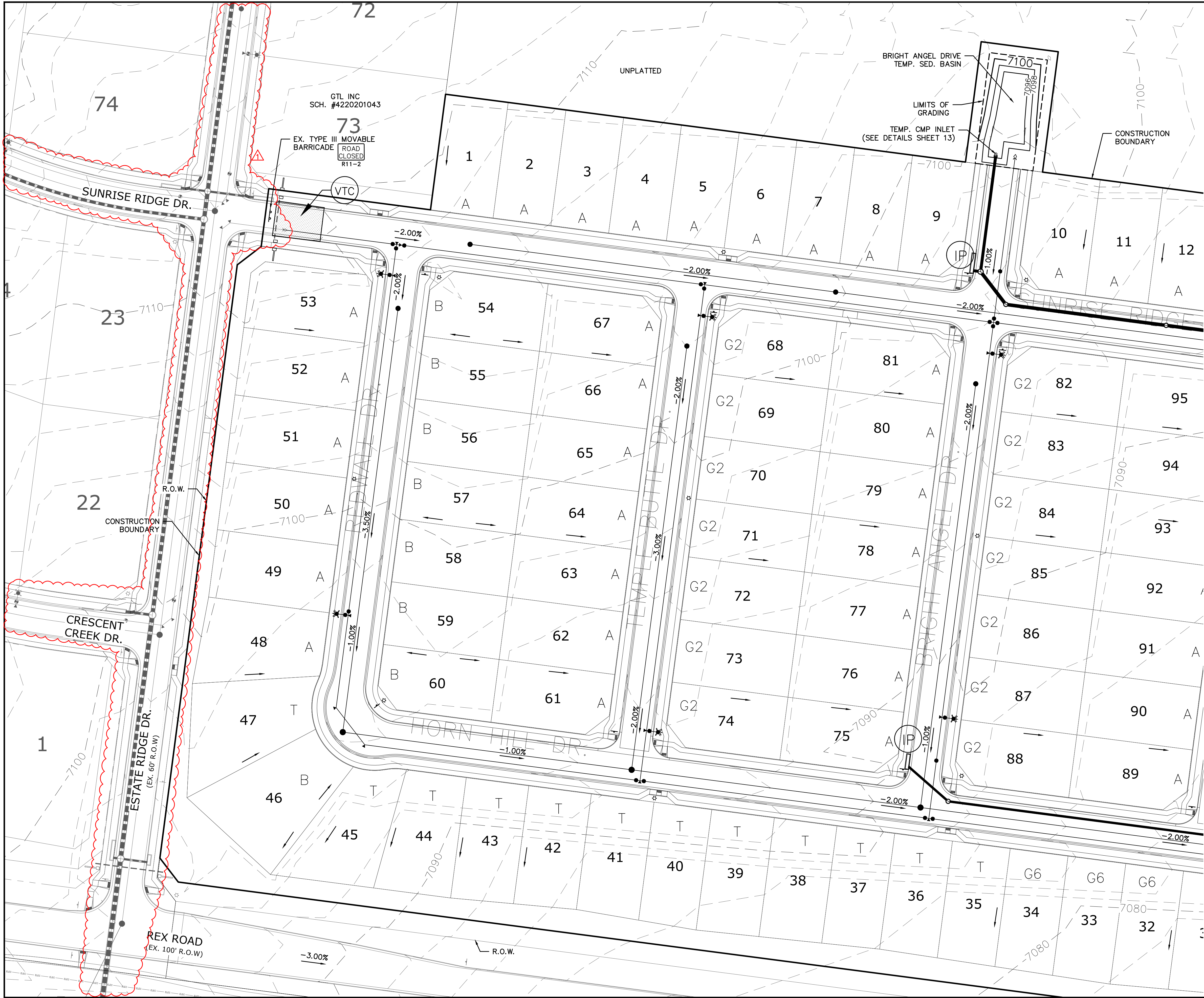
Checked by TJK

Date JULY 2024

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

TECH CONTRACTORS
11910 TOURNAINE DR. #180
FALCON, CO 80831
TELEPHONE
719.495.7444





INDEX MAP		
N.T.S.		
LEGEND		
SYMBOL	ACRONYM	DESCRIPTION
STRAW BALES PER DETAIL SHEET 37		
EX. EROSION WATTLES(UNLESS OTHERWISE NOTED) PER DETAIL SHEET 37		
EX. EROSION CONTROL BLANKET (UNLESS OTHERWISE NOTED) PER DETAIL ECB-1 & ECB-2 DCM VOL. 2		
REINFORCED CONCRETE PIPE		
SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2		
VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2		
INLET PROTECTION PER DETAIL SHEET 37		
LIMITS OF GRADING/DISTURBANCE		
EXISTING CONTOUR (10')		
EXISTING CONTOUR (2')		
PROPOSED CONTOUR (10')		
PROPOSED CONTOUR (2')		
CONSTRUCTION BOUNDARY		
FLOW DIRECTION		
GRADE		
LOT GRADE TYPE		
LOT NUMBER		

NOTE:
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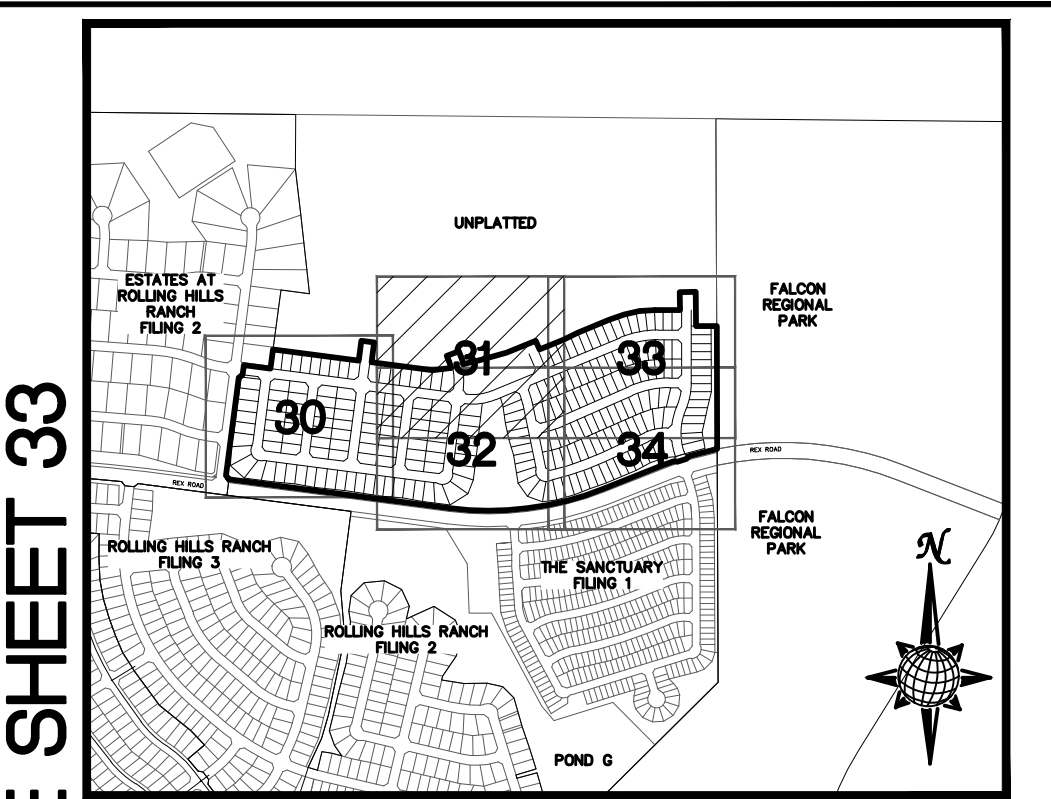
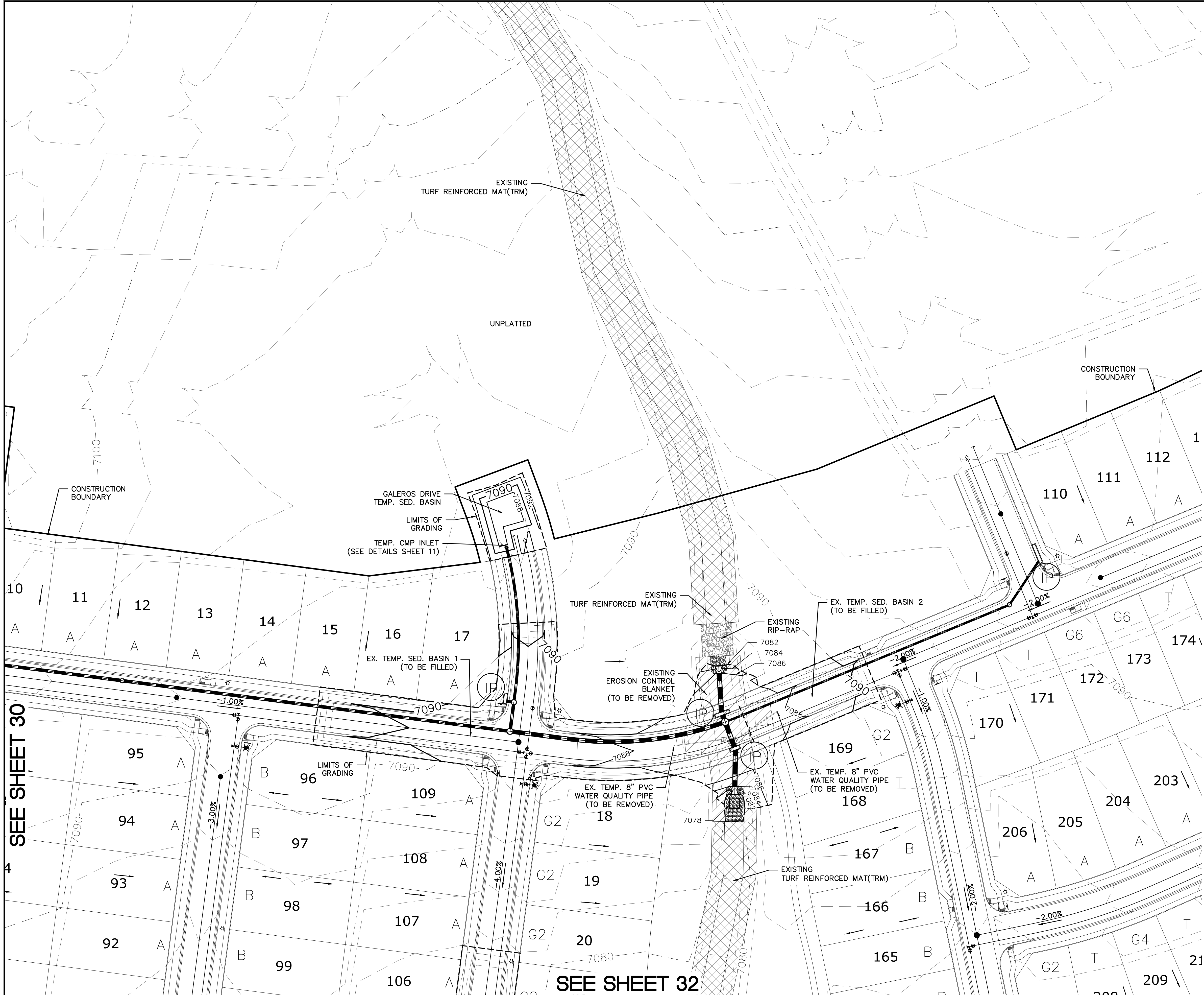
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES. EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
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2) ROLLING HILLS RANCH FILING 3 AT MERIDIAN RANCH
3) ROLLING HILLS RANCH FILING 2 AT MERIDIAN RANCH
4) ROLLING HILLS RANCH FILING 1 AT MERIDIAN RANCH
5) ROUGH GRADING FOR ROLLING HILLS RANCH
6) PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH
7) THE SANCTUARY FILING 1 AT MERIDIAN RANCH

1 inch = 50 ft.

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DO NOT SCALE 200		Drawn by LOG		ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH		 MERIDIAN RANCH		TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444		1 EXISTING UTILITIES SHOWN(SH 6.20, 22, 28, 30, 35) SW NOTE(SH18), STRIPING NOTES(SH19)		10/17/24 LCG	
		Checked by TAK		GRADING+EROSION CONTROL PLAN						2 REVISE SDMA-11 TO TYPE 1 (SH 7 & 28)		4/24/25 TAK	
Scale AS SHOWN		Date JULY 2024		PLAN SHEET						3			
30 of 37										No. Revisions		Date Instr. Appr. Date	



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		FLOW DIRECTION
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	A	LOT GRADE TYPE
	75	LOT NUMBER

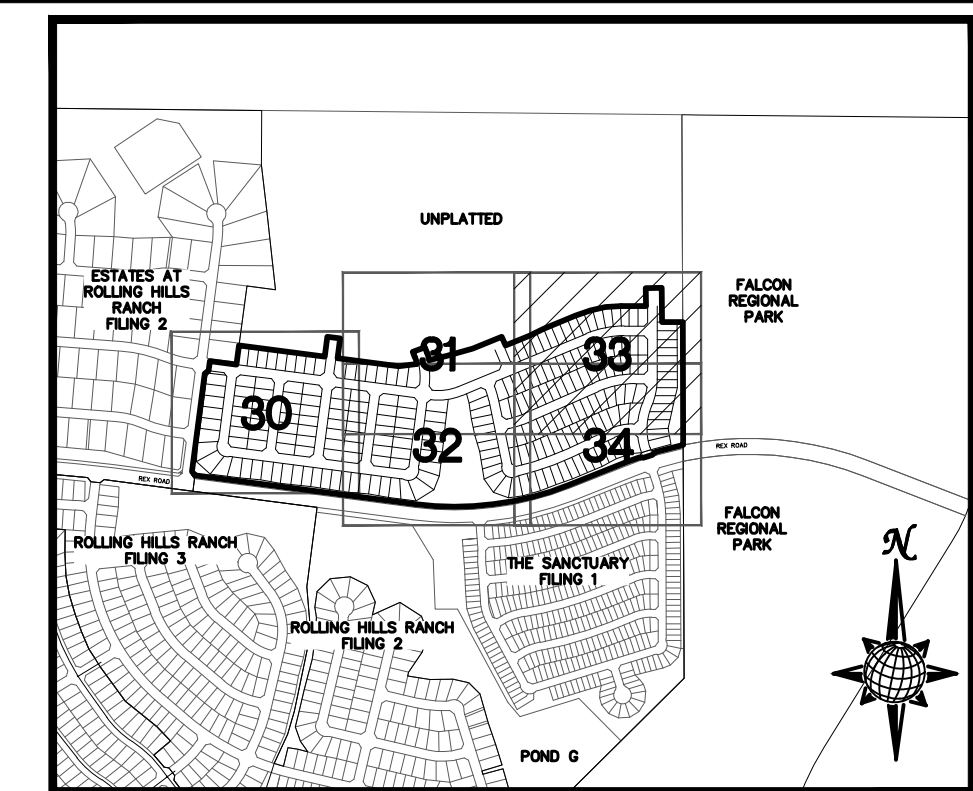
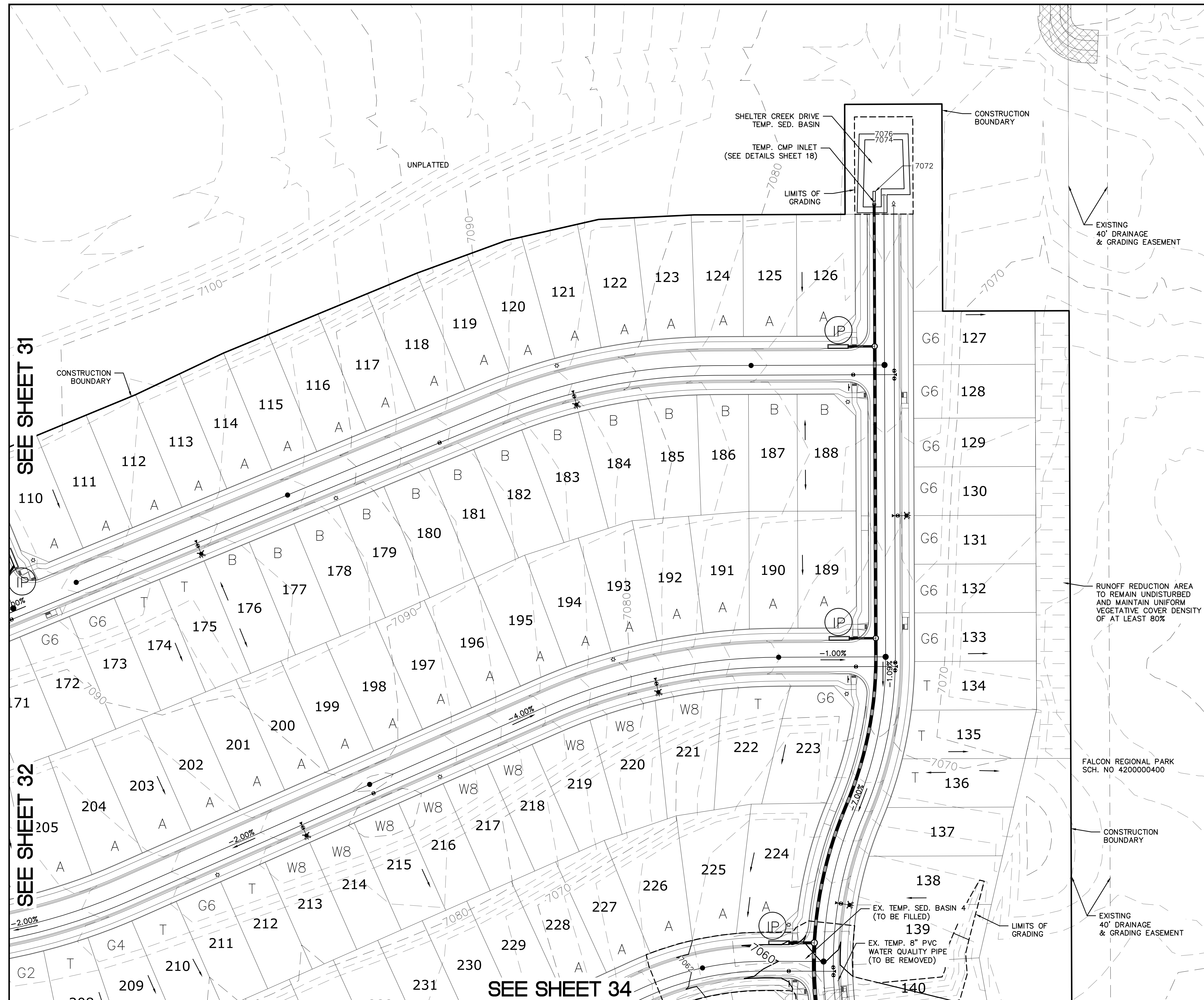
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Revisions				Date	Init.	Appr.	Date
1	2	3	4	No.			
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE 719.495.7444							
MERIDIAN RANCH							
ROLLING HILLS RANCH NORTH FILING 1 AT MERIDIAN RANCH GRADING-EROSION CONTROL PLAN							
Drawn by	Log	Checked by	TAK	Date	JULY 2024		
Scale	AS SHOWN			31 of 37	PLAN SHEET		



INDEX MAP

N.T.S.

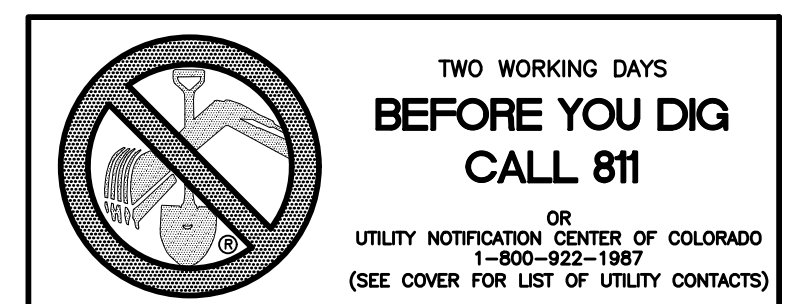
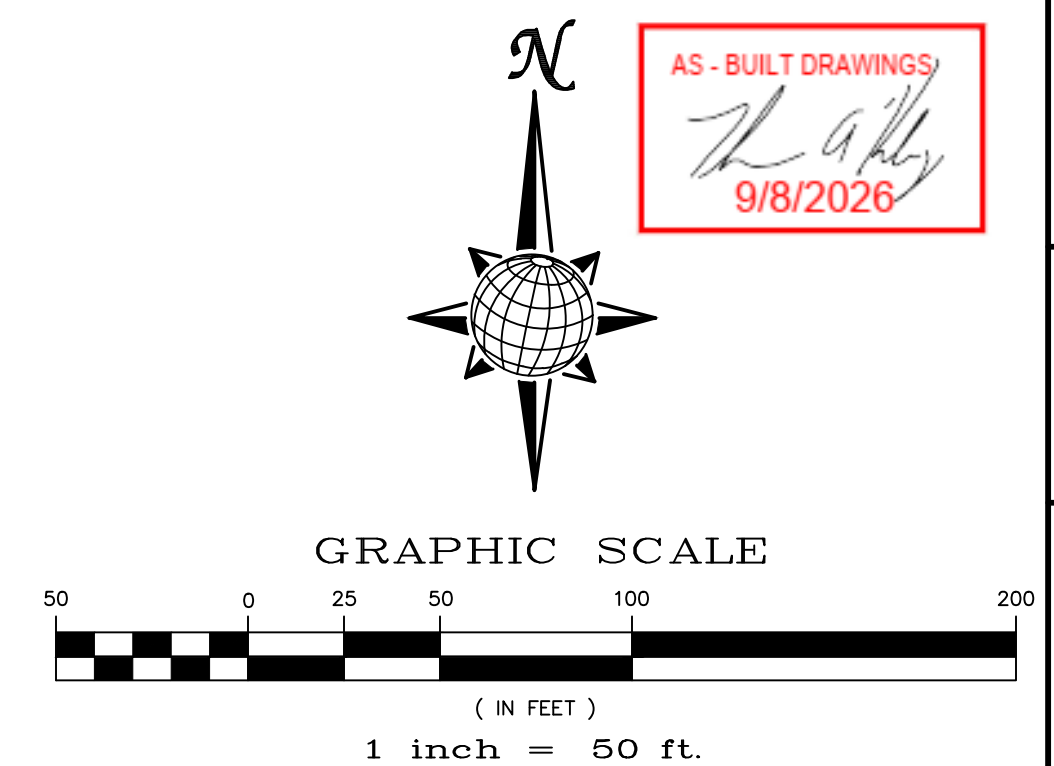
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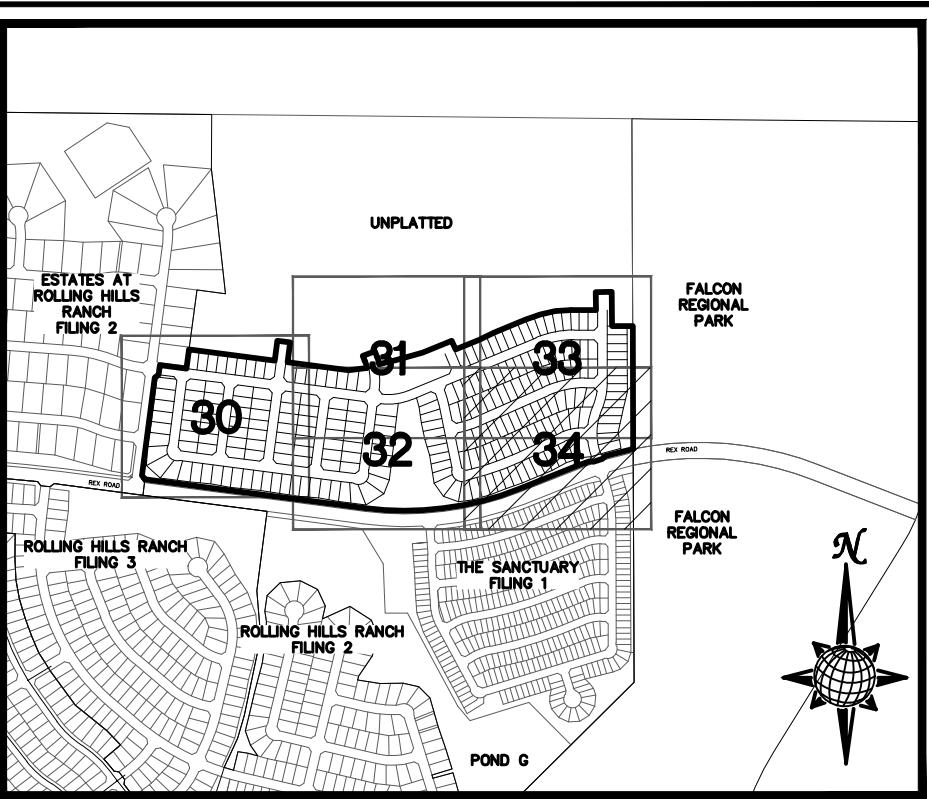
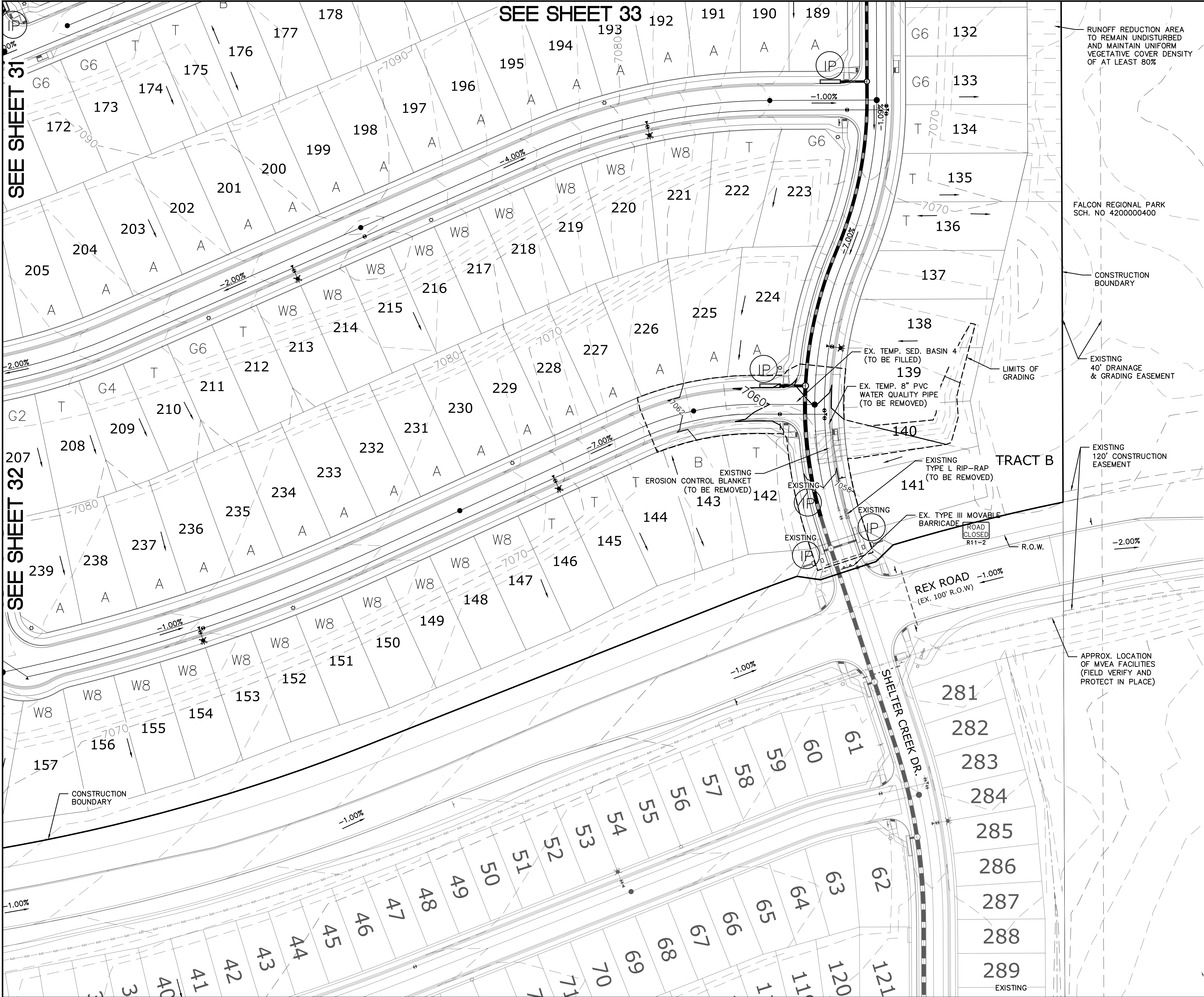
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	33 of 37	Checked by TAK				2						
		Date JULY 2024				3						
						4						
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INDEX MAP

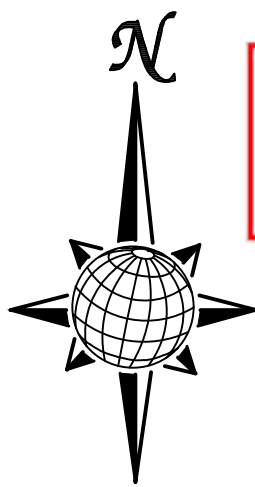
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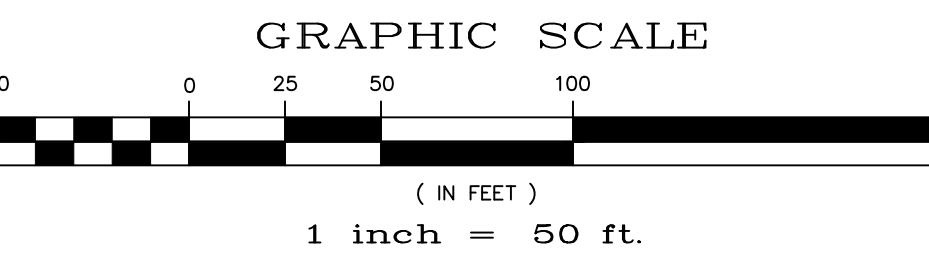
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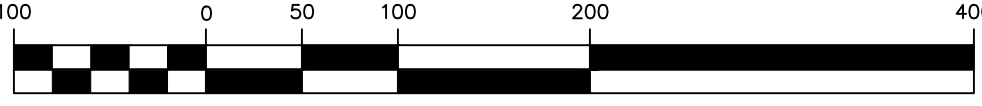
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2					
3					
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Scale	AS SHOWN	34	of	37	
PLAN SHEET					
PROFESSIONAL ENGINEER					

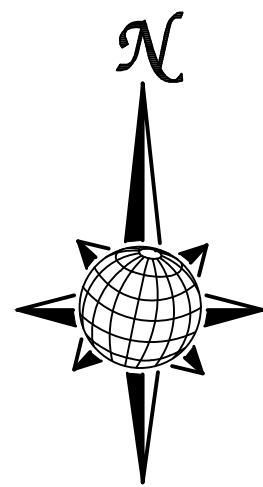




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GRAPHIC SCALE
(IN FEET)
1 inch = 100 ft.





LEGEND:

AREAS OF CUT

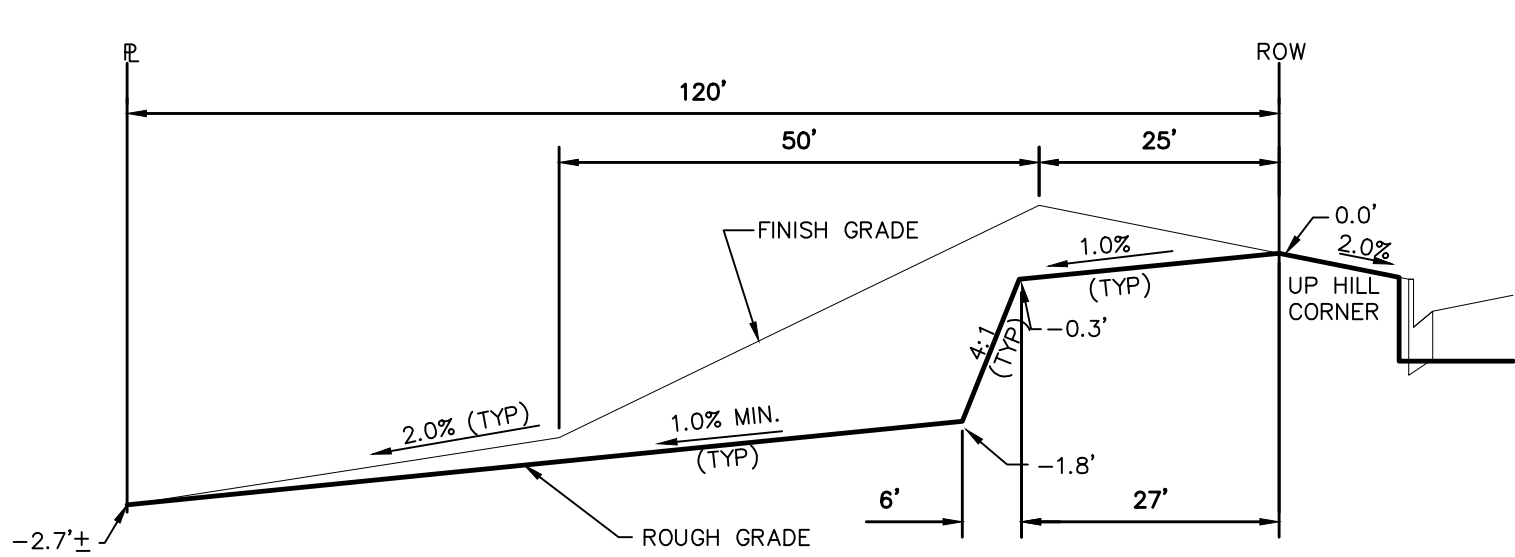
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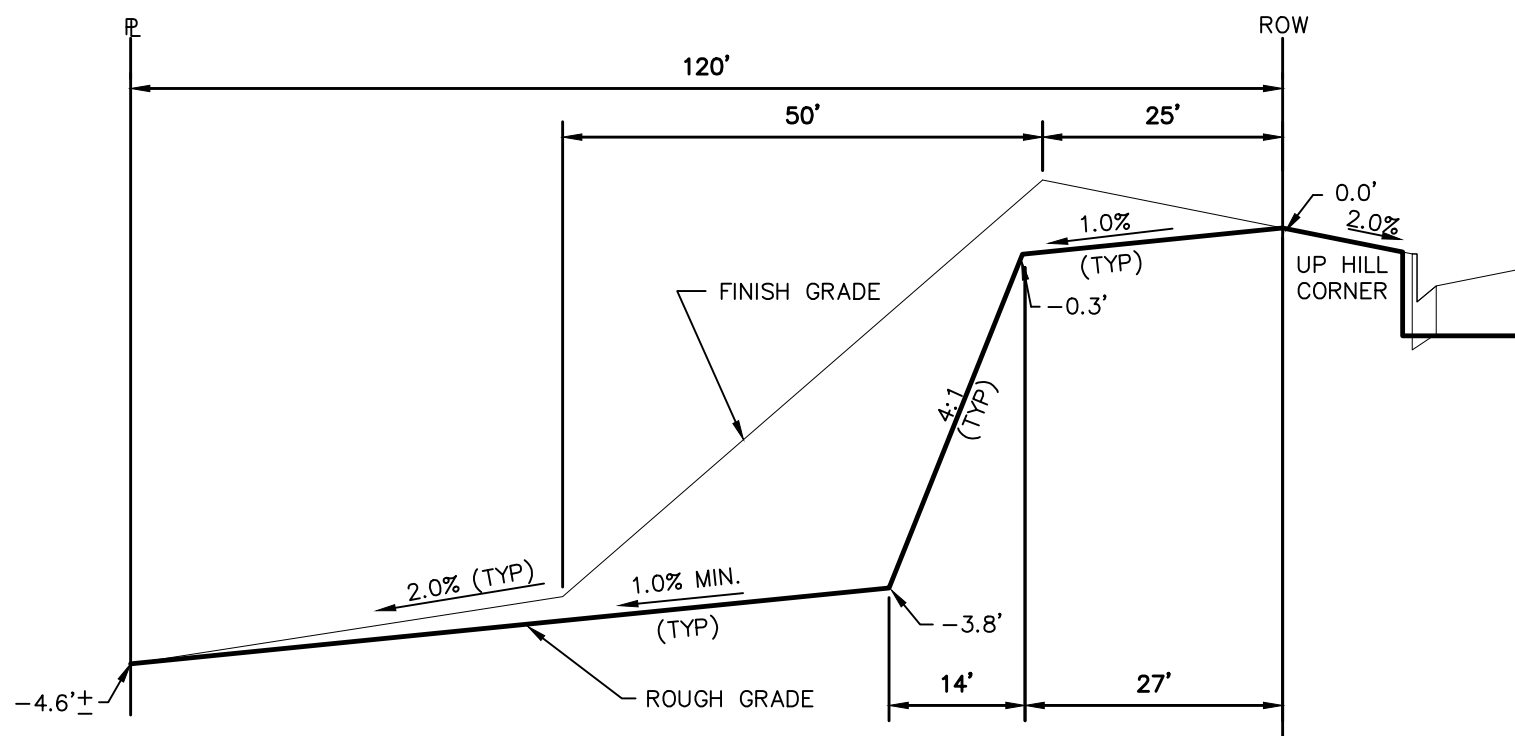
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MERIDIAN RANCH					
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REVISE(SH.11 TO TYPE 1) (SH.7 & 20)					
Revisions					
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1	10/17/24		LOG		
2	4/24/25		TAK		
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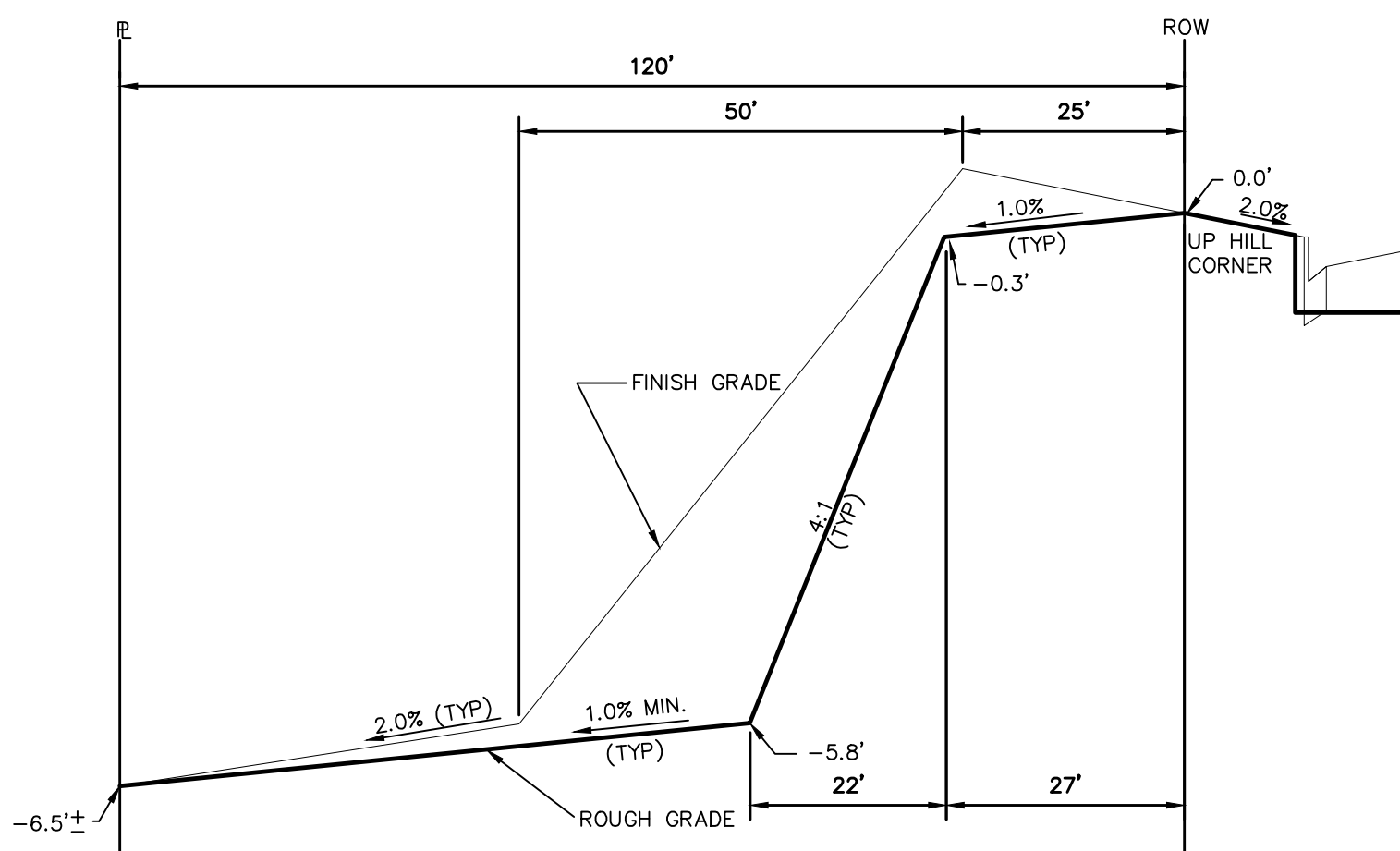
TYPICAL LOT "G2" TEMPLATES

NTS



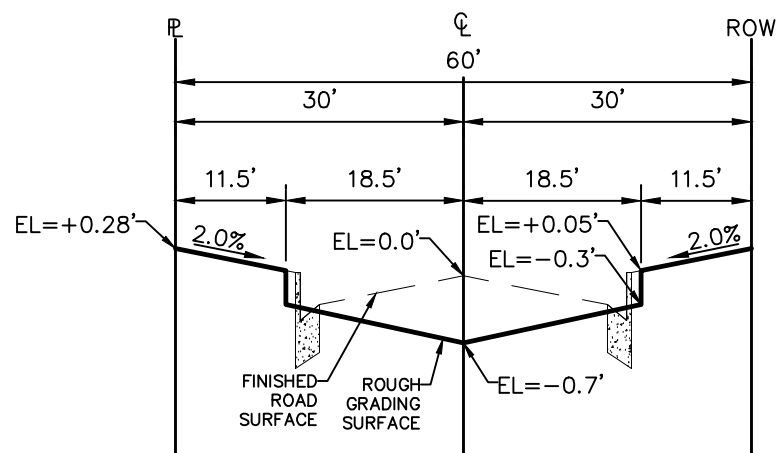
TYPICAL LOT "G4" TEMPLATES

NTS



TYPICAL LOT "G6" TEMPLATES

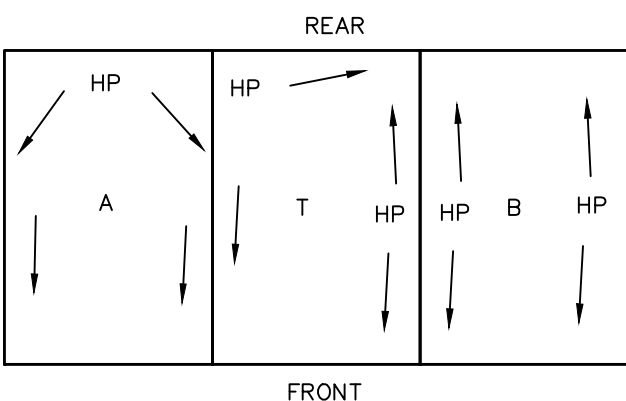
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TYPICAL RESIDENTIAL STREET SECTION

60' ROW

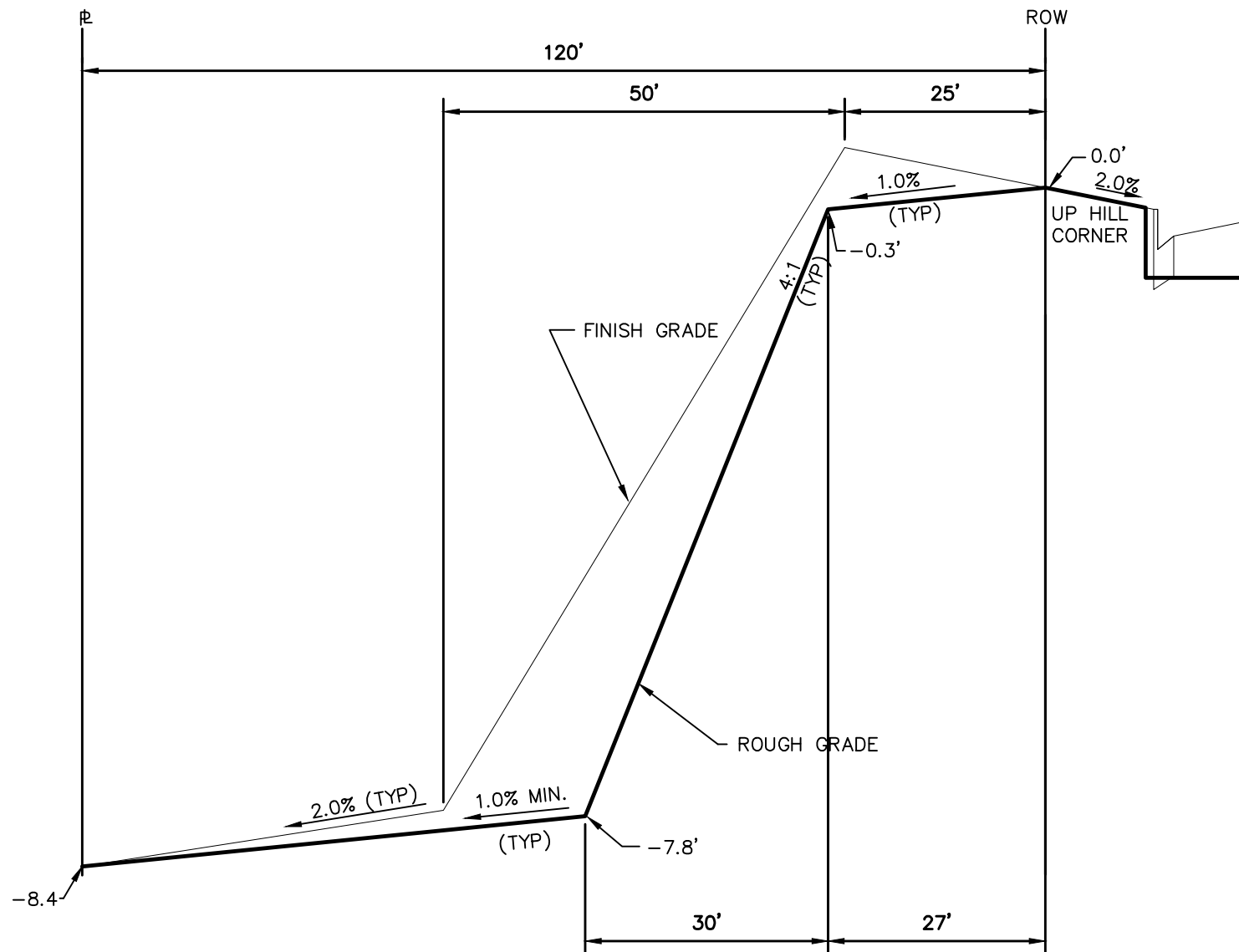
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TYPICAL DRAINAGE PATTERN

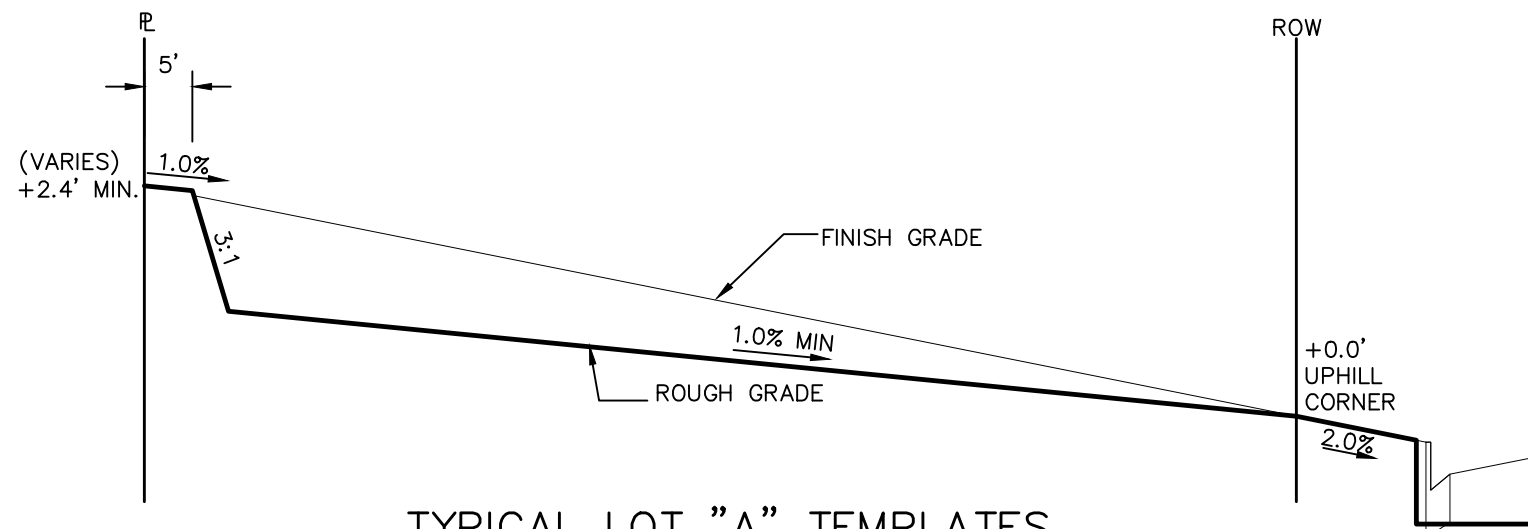
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NOTE: "T" IS A TRANSITION BETWEEN LOT TEMPLATES



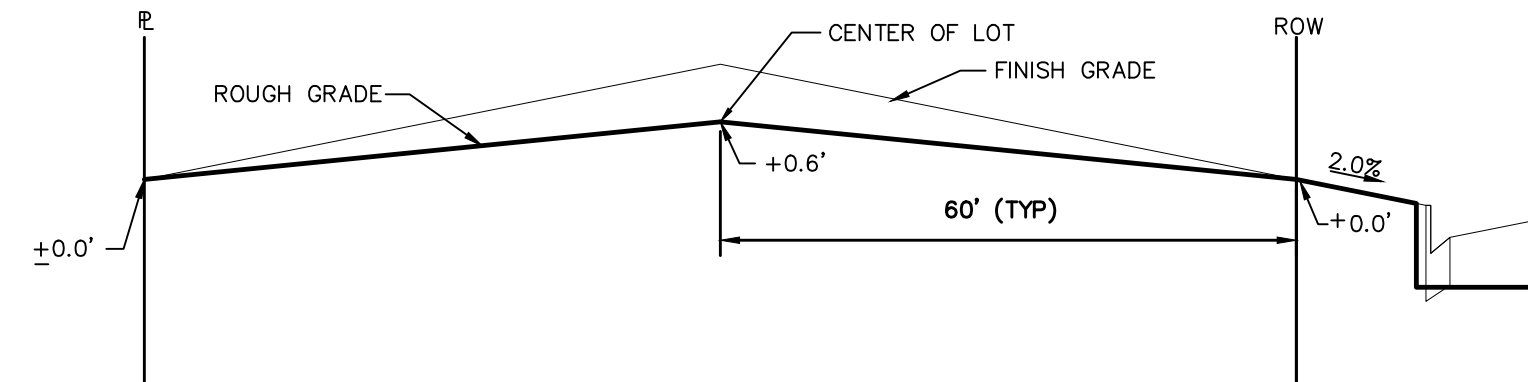
TYPICAL LOT "W8" TEMPLATES

NTS



TYPICAL LOT "A" TEMPLATES

NTS



TYPICAL LOT "B" TEMPLATES

NTS

STEPS FOR CONSTRUCTION

THE ANTICIPATED START FOR THIS PROJECT IS OCTOBER 2024 WITH AN ANTICIPATED COMPLETION DATE OF AUGUST 2025. 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, FILTREX OR APPROVED EQUAL WILL BE PLACED AT ALL ENTRANCES AND EXITS OF DRAINAGE WAYS. STRAW BALES, FILTREXX OR APPROVED EQUAL WILL BE INSTALLED AROUND THE OUTLET AND OVERFLOW 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 ON 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 FILTREX 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. THE RIPRAP ON ANY OF THE OUTLETS 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 SHIFTED 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 OUTLETS.
- * IF THE DEPTH OF THE SILT IN THE TEMPORARY SEDIMENTATION TRAP EXCEEDS 1/2 OF THE ORIGINAL DEPTH, 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 SHOULD BE CONSIDERED, APPLYING THE SEED FIRST AND THE MULCH IN A SECOND OPERATION. UPON COMPLETION OF THE SEEDING OPERATION THE SITE SHOULD BE COVERED WITH WEED FREE 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 LBS. PER ACRE
SIDEOTS 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

AS - BUILT DRAWINGS

9/8/2026

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.



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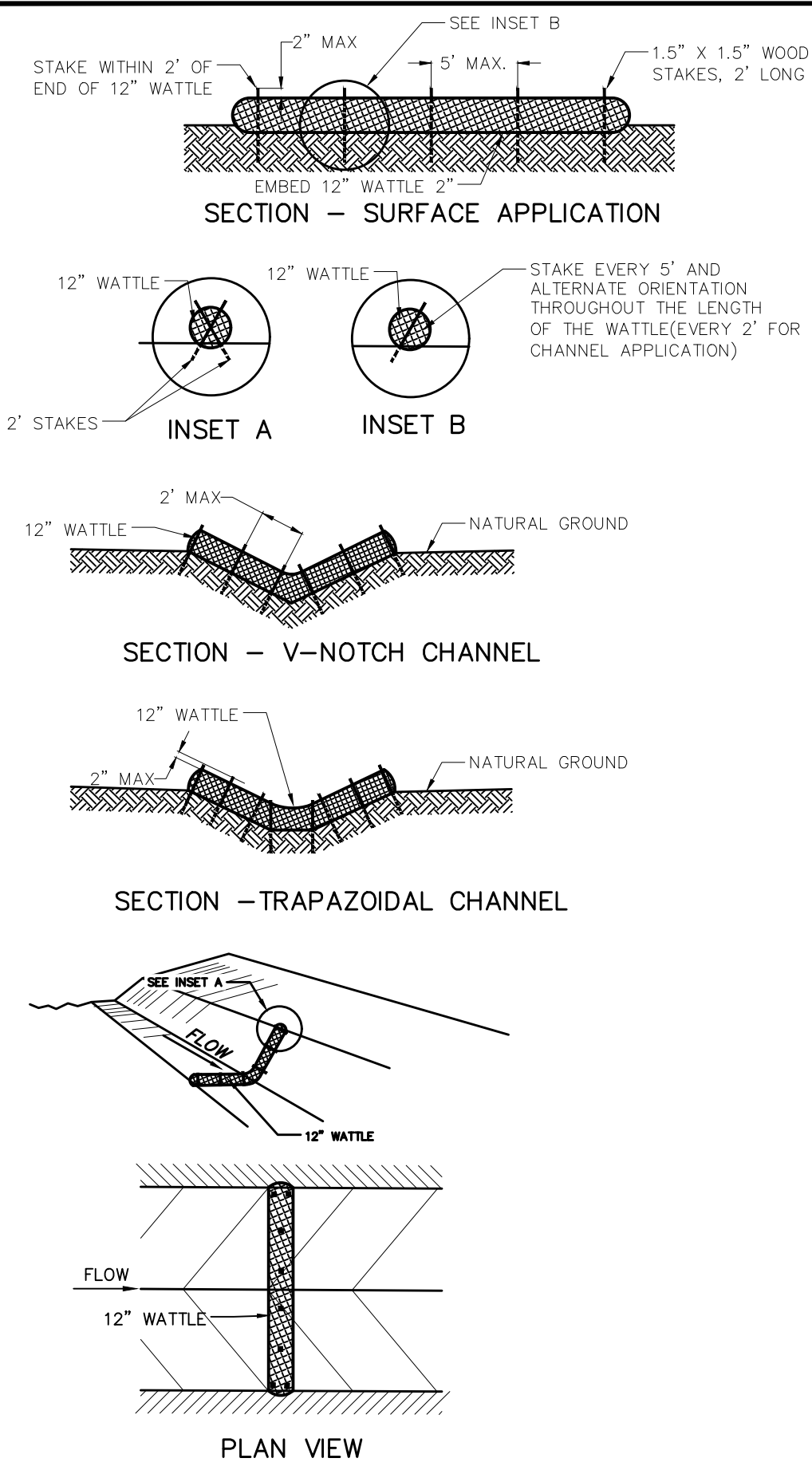
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GRADING DETAIL SHEET

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				JULY 2024

Scale	AS SHOWN	36 of 37
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NOTES:

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

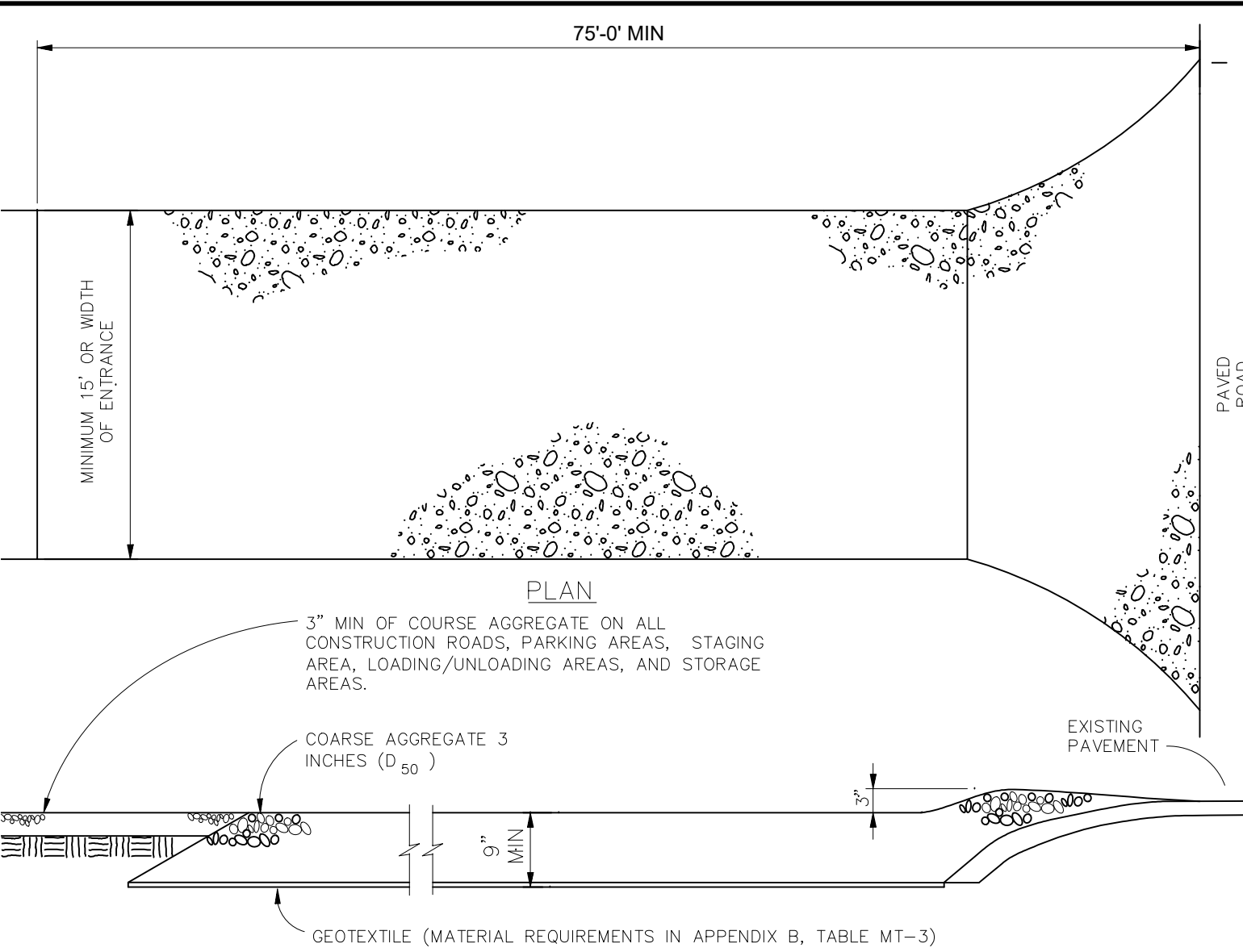
ONLY INSTALL 12" WATTLES TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES OR AS DIRECTED.

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 ACROSS 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.



VEHICLE TRACKING

NTS

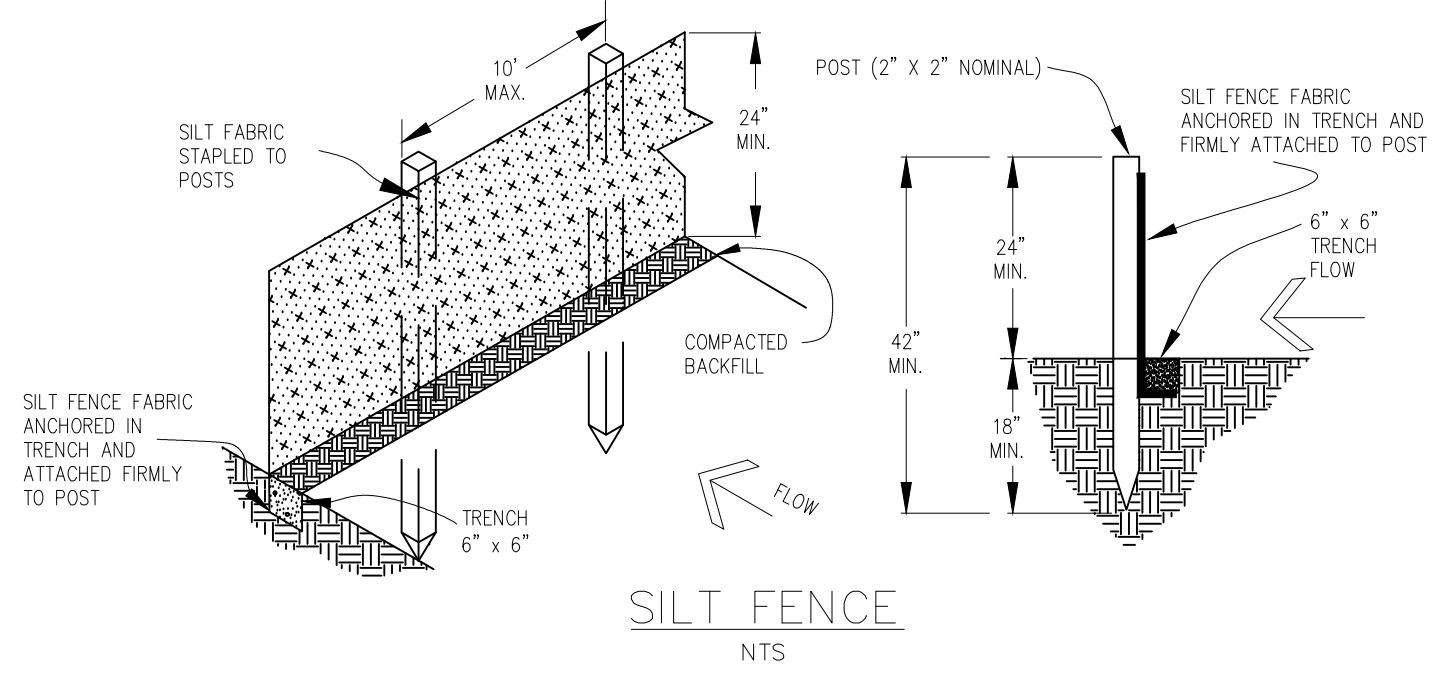
VEHICLE TRACKING NOTES

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 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.



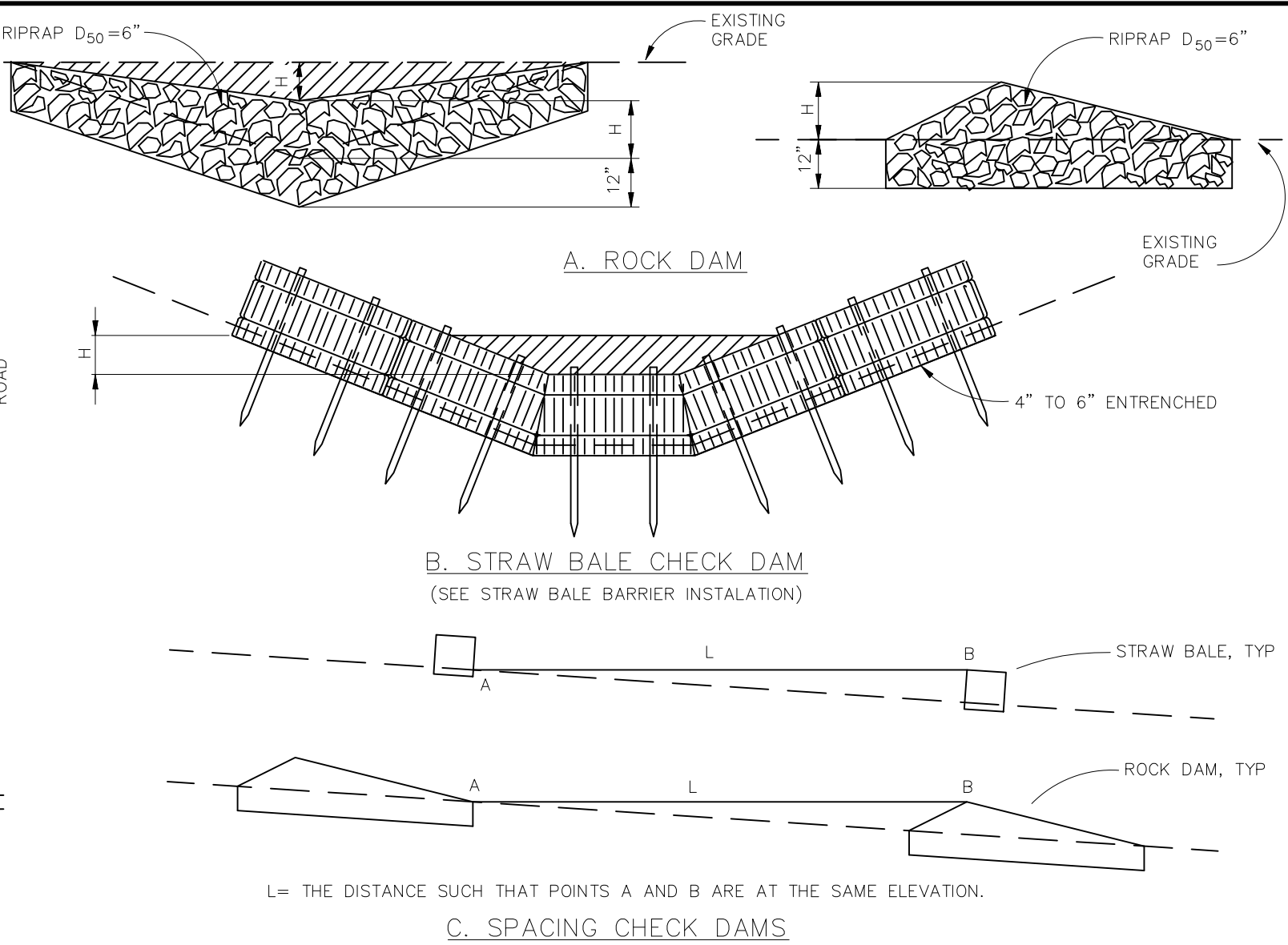
INSTALLATION REQUIREMENTS

1. SILT FENCES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
2. WHEN JOINTS ARE NECESSARY, SILT FENCE GEOTEXTILE SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST AND SECURELY SEALED.
3. METAL POSTS SHALL BE "STUDDED TEE" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.
4. THE FILTER MATERIAL SHALL BE FASTENED SECURELY TO METAL OR WOOD POSTS USING WIRE TIES, OR TO WOOD POSTS WITH 3/4" LONG #9 HEAVY-DUTY STAPLES. THE SILT FENCE GEOTEXTILE SHALL NOT BE STAPLED TO EXISTING TREES.
5. WHILE NOT REQUIRED, WIRE MESH FENCE MAY BE USED TO SUPPORT THE GEOTEXTILE. WIRE FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 3/4" LONG. TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 6" AND SHALL NOT EXTEND MORE THAN 3' ABOVE THE ORIGINAL GROUND SURFACE.

6. ALONG THE TOE OF FILLS, INSTALL THE SILT FENCE ALONG A LEVEL CONTOUR AND PROVIDE AN AREA BEHIND THE FENCE FOR RUNOFF TO POND AND SEDIMENT TO SETTLE. A MINIMUM DISTANCE OF 5 FEET FROM THE TOE OF THE FILL IS RECOMMENDED.
7. THE HEIGHT OF THE SILT FENCE FROM THE GROUND SURFACE SHALL BE MINIMUM OF 24 INCHES AND SHALL NOT EXCEED 36 INCHES; HIGHER FENCES MAY INPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.

MAINTENANCE REQUIREMENTS

1. CONTRACTOR SHALL INSPECT SILT FENCES IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL. DAMAGED, COLLAPSED, UNENTRENCHED OR INEFFECTIVE SILT FENCES SHALL BE PROMPTLY REPAIRED OR REPLACED.
2. SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE WHEN IT ACCUMULATES TO HALF THE EXPOSED GEOTEXTILE HEIGHT.
3. SILT FENCES SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.



CHECK DAM

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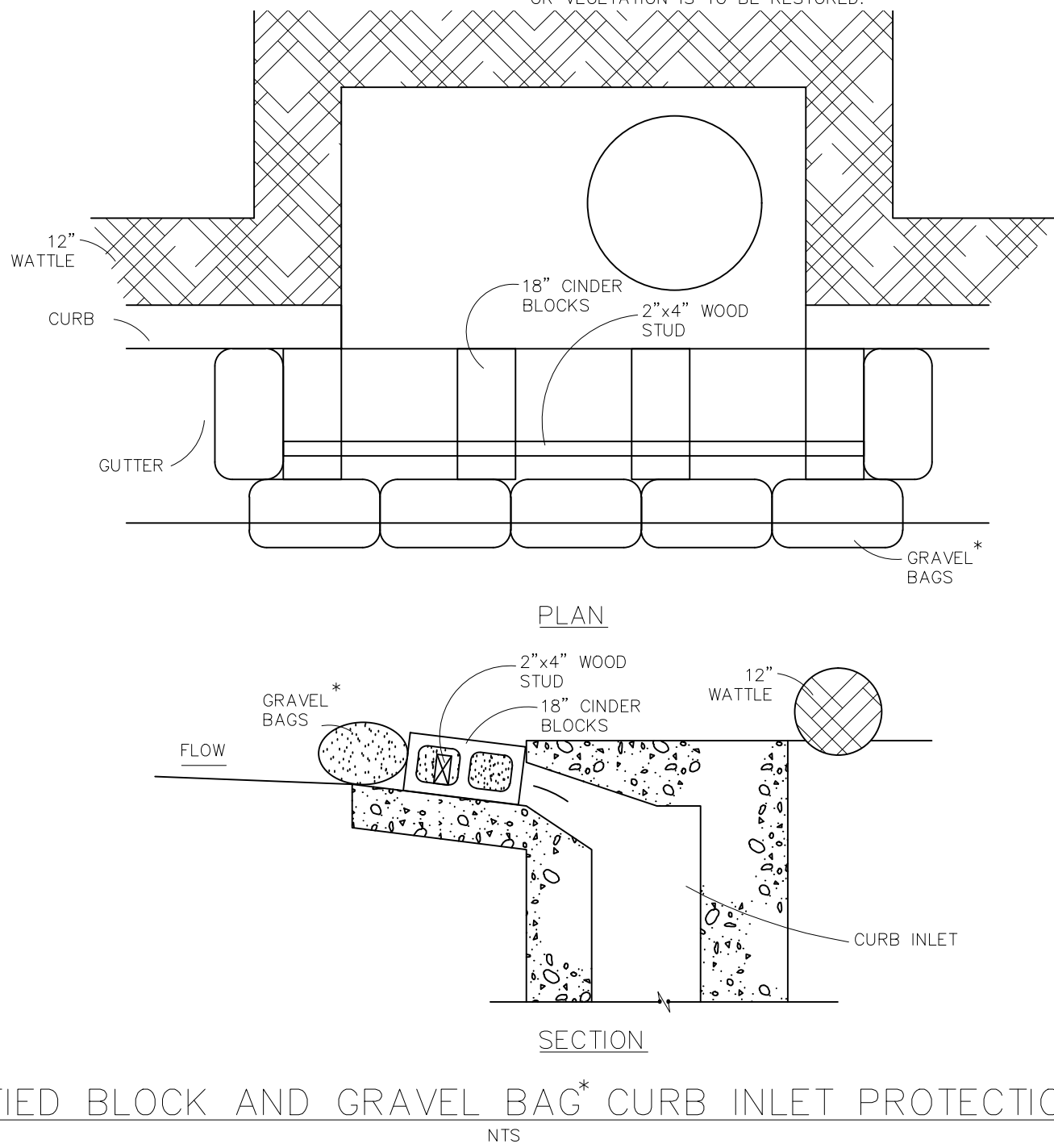
CHECK DAM NOTES

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.



MODIFIED BLOCK AND GRAVEL BAG* CURB INLET PROTECTION

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BLOCK AND GRAVEL BAG* CURB INLET PROTECTION NOTES

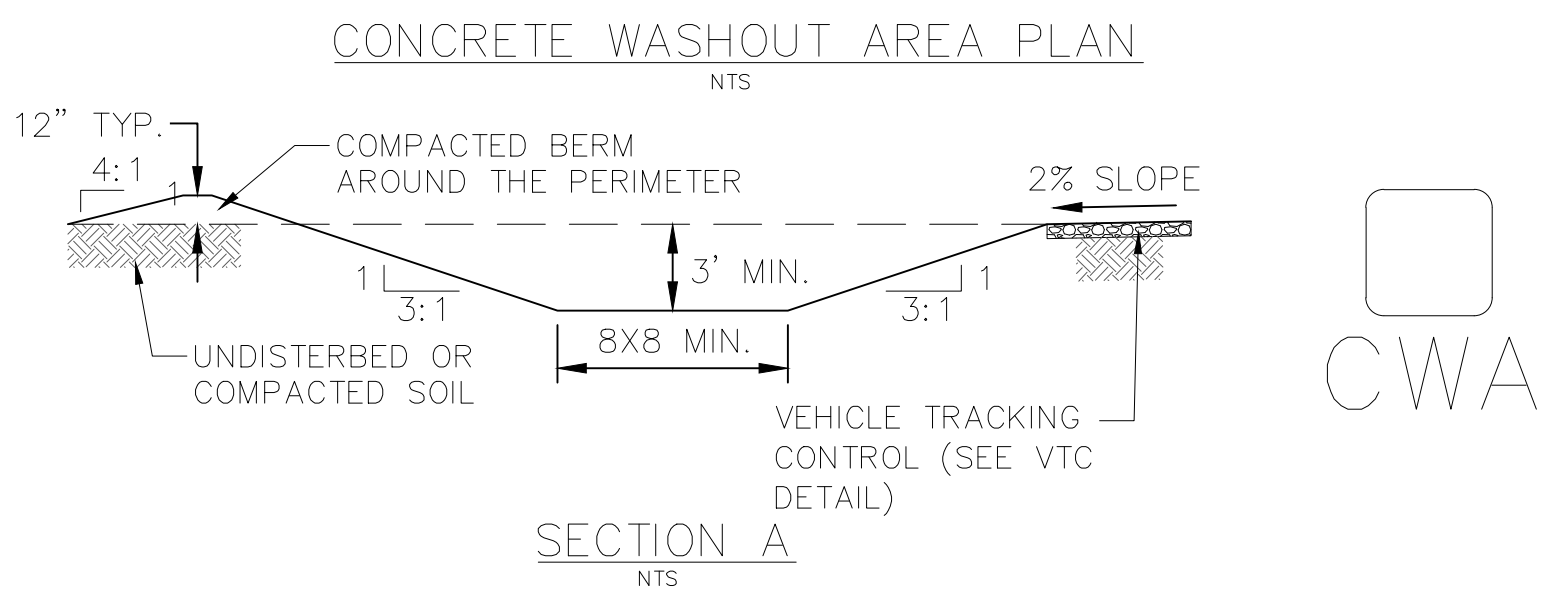
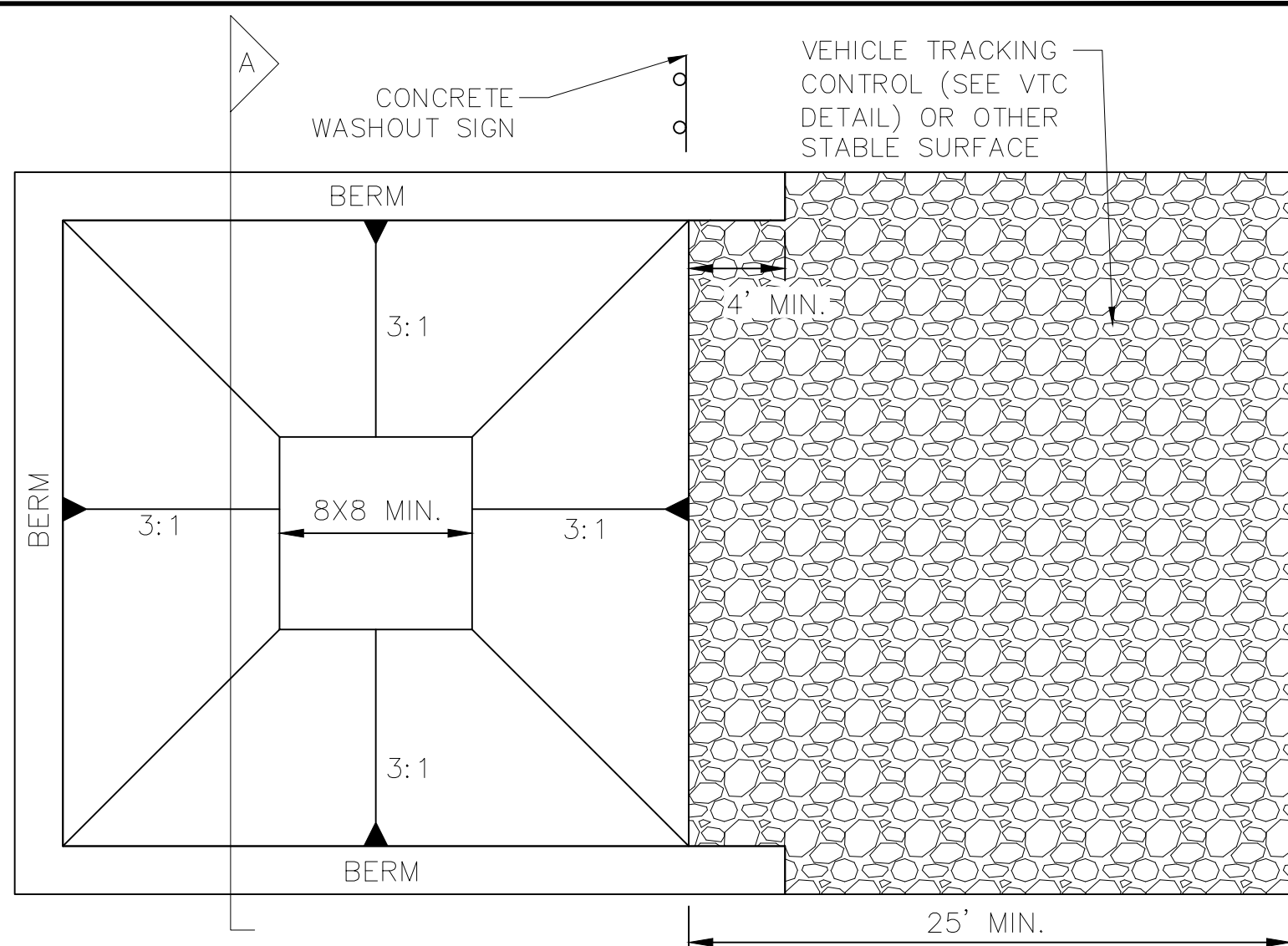
INSTALLATION REQUIREMENTS

1. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET.
2. CONCRETE BLOCKS ARE TO BE LAID AT 2' SPACING ON THEIR SIDES WITH THE OPEN ENDS OF THE BLOCK FACING EACH OTHER.
3. IF MORE THAN ONE 2X4 IS REQUIRED, THEY NEED TO OVERLAP BY A MINIMUM OF 2'.
4. GRAVEL BAGS ARE TO BE PLACED AROUND THE CONCRETE BLOCKS AND 2X4 TO CLOSELY ABUTTING ONE ANOTHER SO THERE ARE NO GAPS.
5. GRAVEL BAGS ARE TO CONTAIN WASHED SAND OR GRAVEL APPROXIMATELY 3/4 INCH IN DIAMETER.
6. BAGS ARE TO BE MADE OF 1/4" INCH WIRE MESH (USED WITH GRAVEL ONLY) OR GEOTEXTILE.

MAINTENANCE REQUIREMENTS

1. CONTRACTOR SHALL INSPECT INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
2. DAMAGED OR INEFFECTIVE INLET PROTECTION SHALL PROMPTLY BE REPAIRED OR REPLACED.
3. SEDIMENT SHALL BE REMOVED WHEN SEDIMENT HAS ACCUMULATED TO APPROXIMATELY 1/2 THE DESIGN DEPTH OF THE TRAP.
4. INLET PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED WITHIN THE DRAINAGE AREA AS APPROVED BY THE CITY.

* 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.

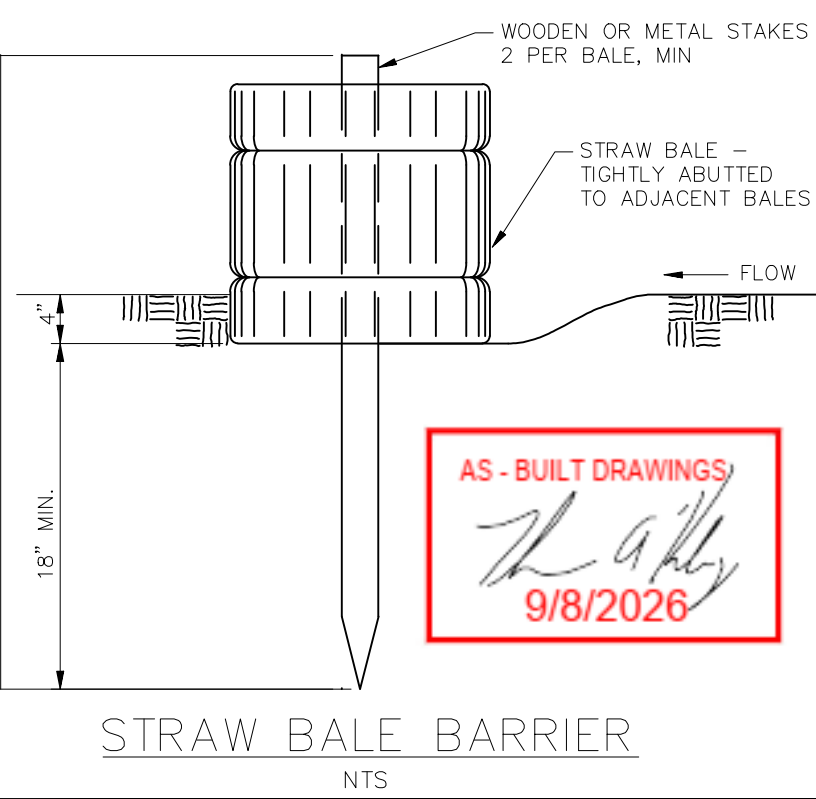
STRAW BALE BARRIER NOTES

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
1					
2					
3					
4					

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

Drawn by
Log
Checked by
TAK

AS SHOWN

Scale
37 of 37

PCD PROJECT NO. SF2411



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