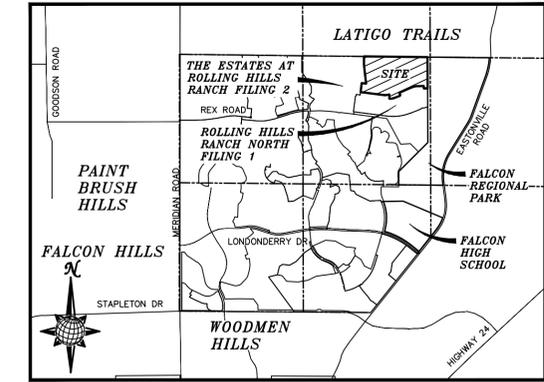


CONSTRUCTION DRAWINGS FOR ROLLING HILLS RANCH NORTH FILING 2 AT MERIDIAN RANCH

IMPROVEMENT PLANS

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

A PARCEL OF LAND LOCATED IN A PORTION 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.

UTILITY CONTACTS:

- WATER - MERIDIAN SERVICE METROPOLITAN DISTRICT
POC: RUSSELL MILLS (719)-495-6567
- SANITARY SEWER - MERIDIAN SERVICE METROPOLITAN DISTRICT
POC: RUSSELL MILLS (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 SHOWN 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 A PORTION OF SECTION 20, IN TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF TRACT A OF 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 NORTH LINE OF THE NORTHWEST 1/2 OF SAID SECTION 20;

1. THENCE S89°25'43"E ON SAID NORTH LINE, A DISTANCE OF 2624.85 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:

2. THENCE S00°13'13"E A DISTANCE OF 1295.07 FEET, POINT BEING ON THE NORTHERN BOUNDARY OF ROLLING HILLS RANCH NORTH FILING NO. 1 RECORDED WITH RECEPTION NO. _____ IN THE RECORDS OF EL PASO COUNTY;

THE FOLLOWING EIGHTEEN (18) COURSES ARE ON THE BOUNDARY LINE OF SAID ROLLING HILLS RANCH NORTH FILING NO. 1:

- THENCE S89°46'57"W A DISTANCE OF 160.00 FEET;
- THENCE N00°13'03"W A DISTANCE OF 99.94 FEET;
- THENCE S89°46'57"W A DISTANCE OF 225.24 FEET;
- THENCE S87°17'03"W A DISTANCE OF 98.28 FEET;
- THENCE S77°08'32"W A DISTANCE OF 97.44 FEET;
- THENCE S69°55'18"W A DISTANCE OF 97.94 FEET;
- THENCE S67°33'39"W A DISTANCE OF 215.00 FEET;
- THENCE S64°41'54"W A DISTANCE OF 100.12 FEET;
- THENCE S67°33'39"W A DISTANCE OF 230.00 FEET;
- THENCE S22°26'21"E A DISTANCE OF 103.00 FEET;
- THENCE S22°33'39"W A DISTANCE OF 31.11 FEET;
- THENCE N67°33'39"E A DISTANCE OF 278.06 FEET TO A POINT OF CURVE TO THE RIGHT;
- THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 320.00 FEET, A DELTA ANGLE OF 29°52'23", AN ARC LENGTH OF 166.84 FEET, WHOSE LONG CHORD BEARS S82°29'50"W A DISTANCE OF 164.96 FEET;
- THENCE N37°33'58"W A DISTANCE OF 31.11 FEET TO A NON-TANGENT CURVE TO THE LEFT;
- THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 430.00 FEET, A DELTA ANGLE OF 20°26'26", AN ARC LENGTH OF 153.41 FEET, WHOSE LONG CHORD BEARS N02°47'11"W A DISTANCE OF 152.59 FEET;
- THENCE S76°59'35"W A DISTANCE OF 60.00 FEET;
- THENCE S83°02'50"W A DISTANCE OF 125.64 FEET;
- THENCE N82°33'58"W A DISTANCE OF 1005.00 FEET TO A POINT ON THE EASTERN BOUNDARY OF SAID THE ESTATES AT ROLLING HILLS RANCH FILING NO. 2;

THE FOLLOWING FIVE (5) COURSES ARE ON THE BOUNDARY LINE OF SAID THE ESTATES AT ROLLING HILLS RANCH FILING NO. 2:

- THENCE N07°26'02"E A DISTANCE OF 375.00 FEET;
- THENCE S82°33'58"E A DISTANCE OF 180.00 FEET;
- THENCE N06°41'24"W A DISTANCE OF 495.03 FEET;
- THENCE N06°47'53"W A DISTANCE OF 290.00 FEET;
- THENCE N00°34'17"E A DISTANCE OF 340.00 FEET THE POINT OF BEGINNING;

THE ABOVE PARCEL OF LAND CONTAINS 88.173 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).

DISTRICT ENGINEER:

Thomas A. Kerby
THOMAS A. KERBY, P.E. CO 31429
MERIDIAN SERVICE METROPOLITAN DISTRICT
DATE 11/04/2024

WATER AND SANITARY SEWER APPROVALS:

J. Mikkel
JIM MIKKEL, GENERAL MANAGER
MERIDIAN SERVICE METROPOLITAN DISTRICT
DATE 11/04/2024

BENCH MARK

- MRRC1 - 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'
- 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'

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.
DATE 11/4/2024

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



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
MERIDIAN RANCH INVESTMENTS, INC.
DATE 11/4/2024

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.

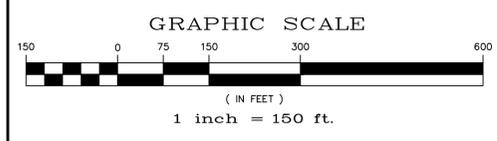
IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT BEEN STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT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

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

SHEET NO	SHEET INDEX	SHEET NO	SHEET INDEX
1	COVER SHEET	15	SIDEWALK PLAN
2	INDEX SHEET	16	OVERALL SANITARY SEWER
3	NOTES SHEET	17-18	OVERALL SANITARY SEWER SERVICES
4-5	DETAIL SHEETS	19	OVERALL UNDERDRAIN
6-7	GALEROS DRIVE	20	UNDERDRAIN DETAILS
8	ESPLANDE DRIVE	21	OVERALL WATER
9	BRIGHT ANGEL DRIVE	22-23	OVERALL WATER SERVICES
10	TOROWEAP WAY	24	OVERALL STORM DRAIN
11	CARDENAS DRIVE	25	GRADING INDEX SHEET
12	CHALK CLIFFS DRIVE	26-30	GRADING LAYOUT SHEETS
13	CHALK CLIFFS DRIVE & SHELTER CREEK DRIVE	31	GRADING LAYOUT CUT-FILL
14	LAVA FALLS DRIVE	32-33	GRADING DETAIL SHEETS

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 2 AT MERIDIAN RANCH STREET AND UTILITY PLANS COVER SHEET				
Scale	AS SHOWN	1	of	33
Drawn by	LOG	Checked by	TAK	Date
				NOVEMBER 2024
				Revisions
				Date
				Appr.
				Date

LATIGO TRAILS



**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)

FALCON REGIONAL PARK

FALCON REGIONAL PARK

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

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

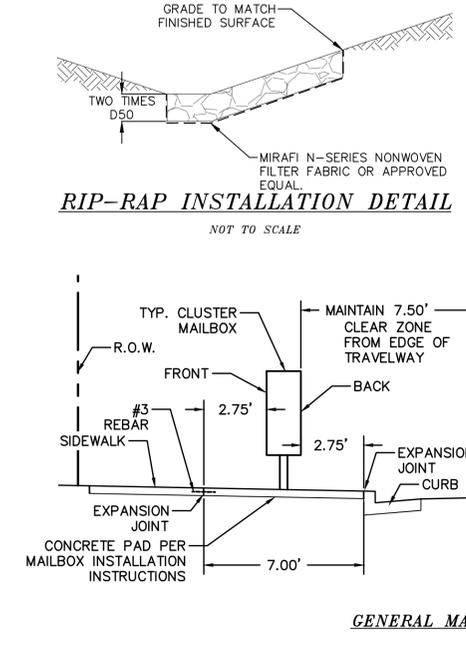
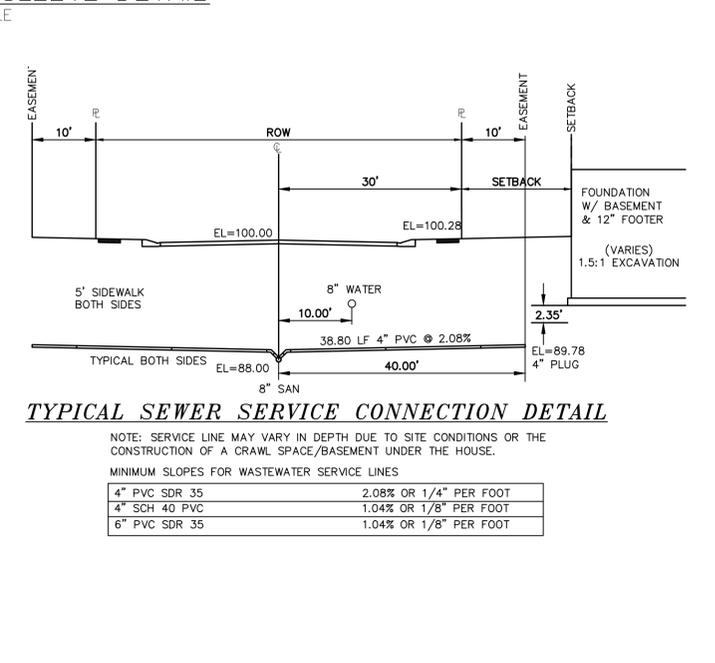
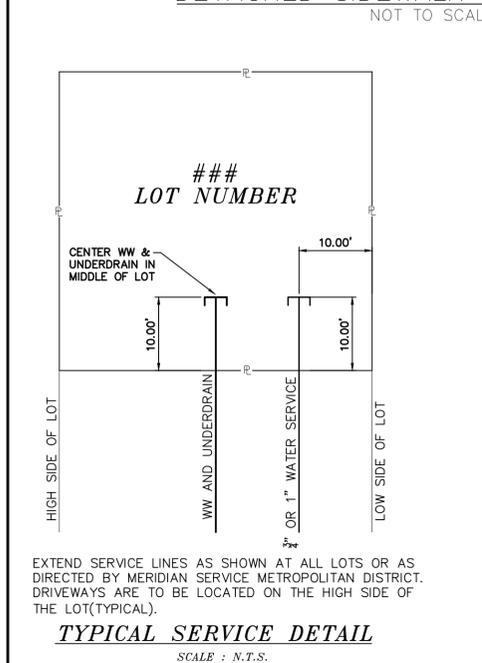
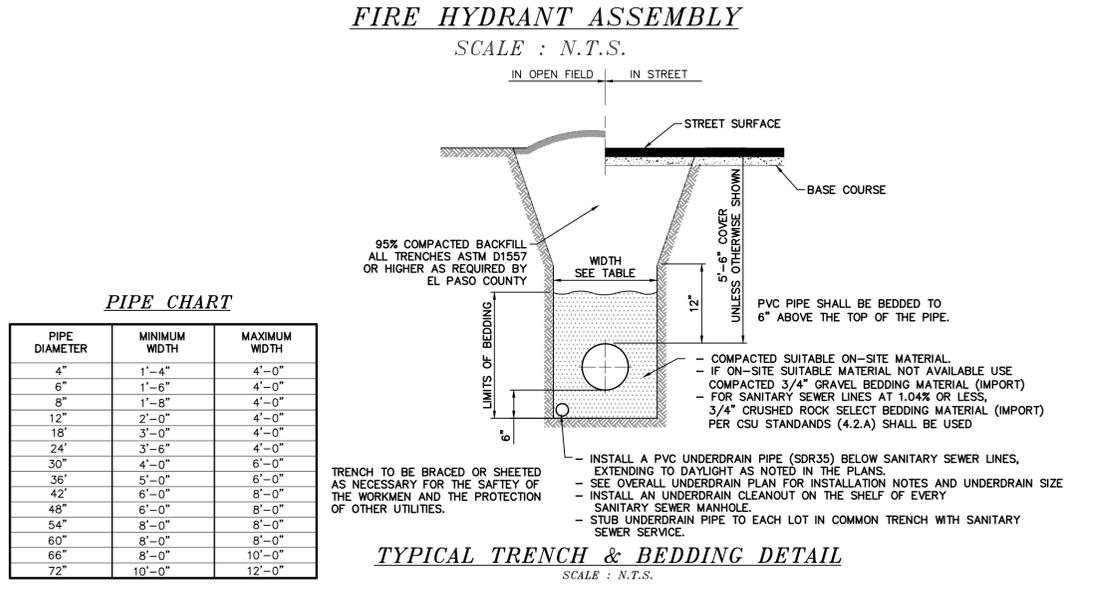
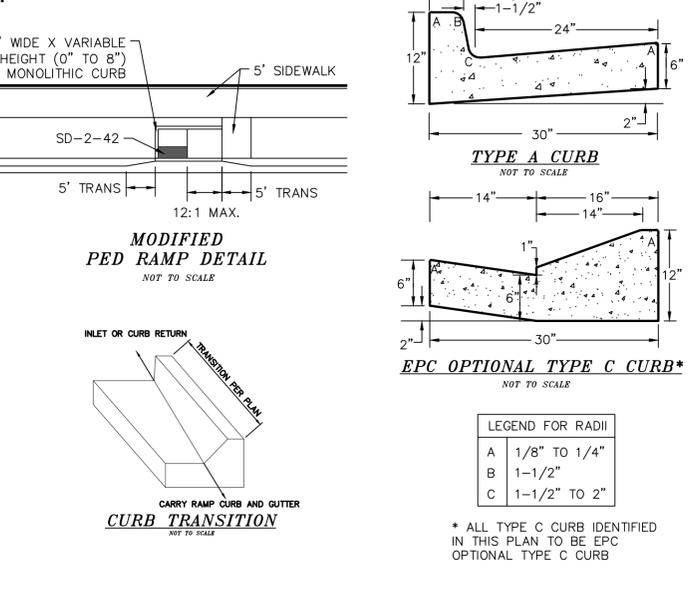
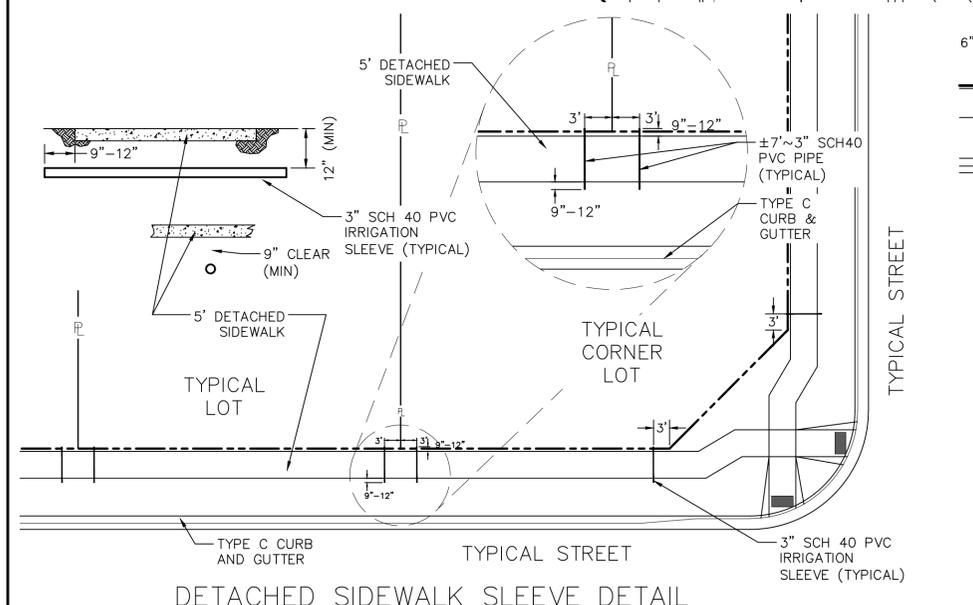
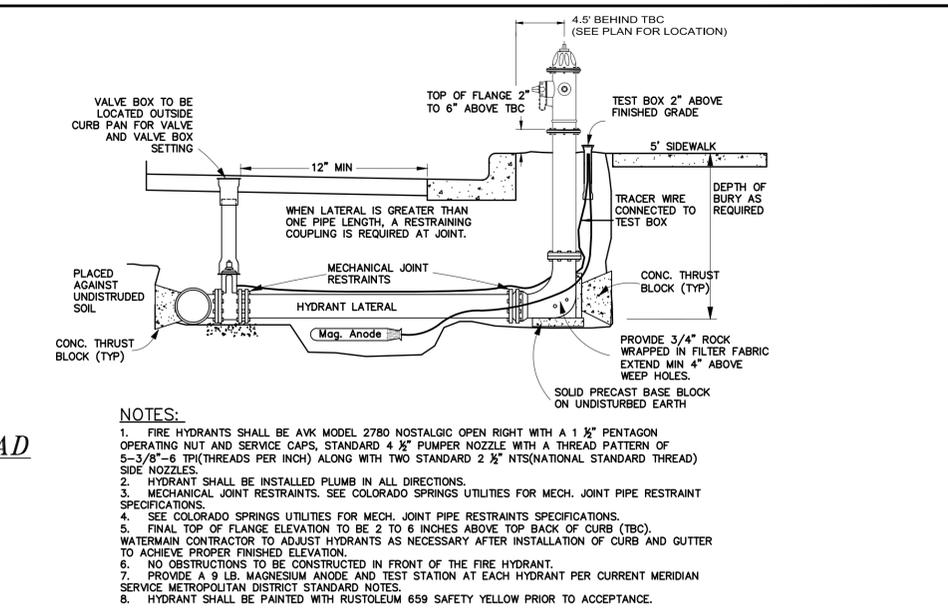
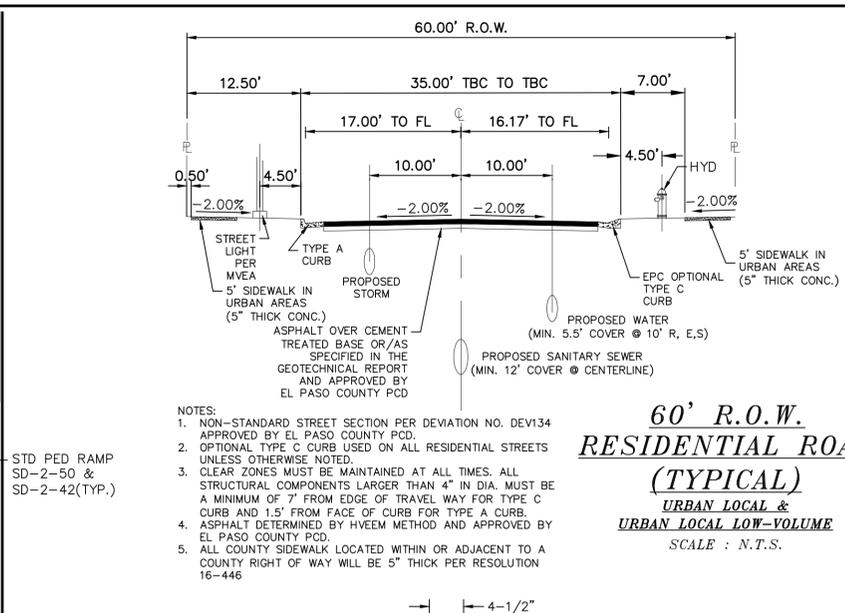
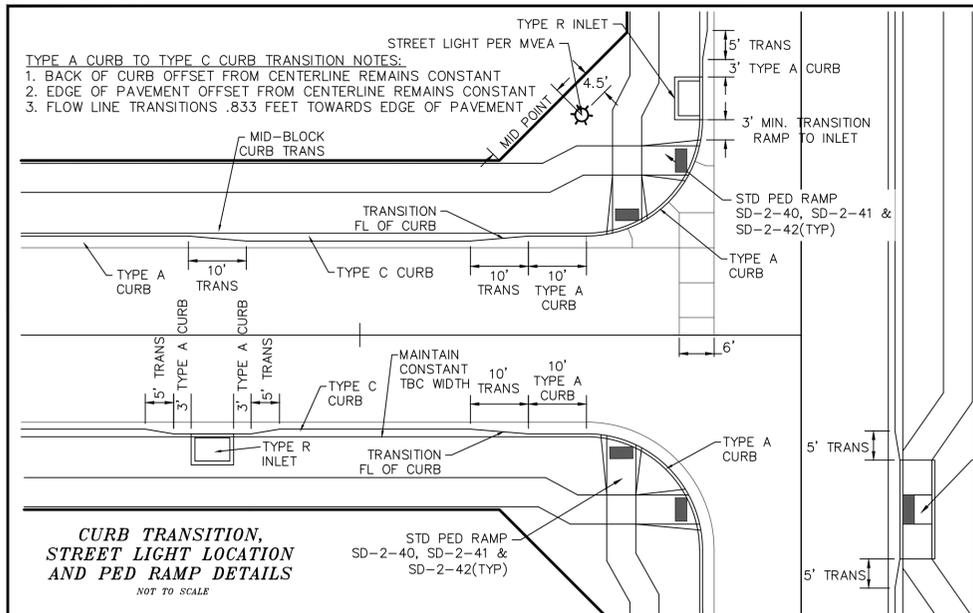


ROLLING HILLS RANCH NORTH FILING 2
AT MERIDIAN RANCH
STREET AND UTILITY PLANS
INDEX SHEET

Drawn by LOG
Checked by TAK
Date NOVEMBER 2024

Scale AS SHOWN
2 of 33





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

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

MERIDIAN RANCH

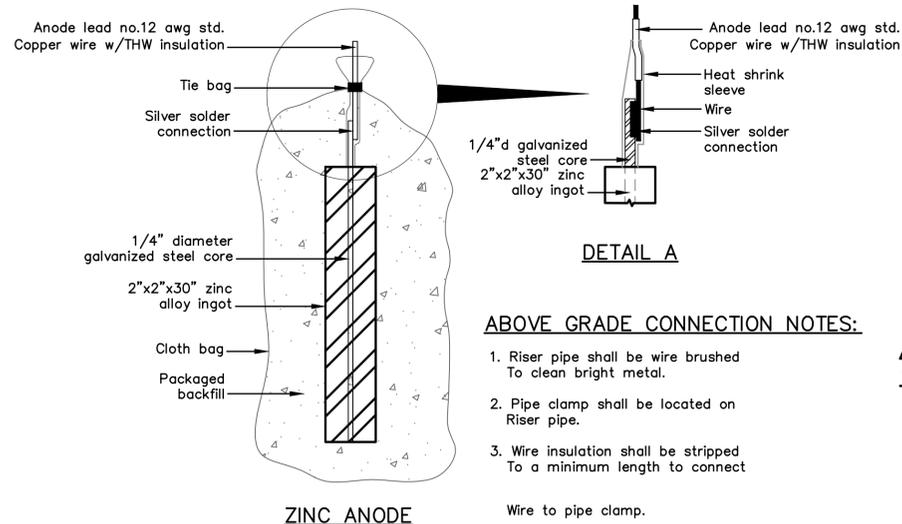
ROLLING HILLS RANCH NORTH FILING 2
 AT MERIDIAN RANCH
 STREET AND UTILITY PLANS
 DETAIL SHEET

Drawn by: LOG
 Checked by: TJK
 Date: NOVEMBER 2024

Scale: AS SHOWN
 4 of 33

Colorado Professional Engineer
 License No. 1429

PCD PROJECT NO. SF2424



ABOVE GRADE CONNECTION NOTES:

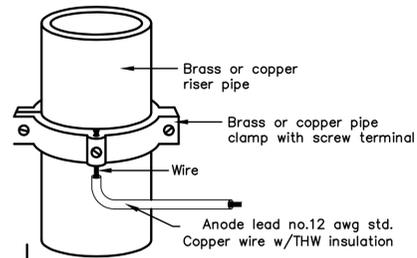
1. Riser pipe shall be wire brushed To clean bright metal.
2. Pipe clamp shall be located on Riser pipe.
3. Wire insulation shall be stripped To a minimum length to connect Wire to pipe clamp.

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

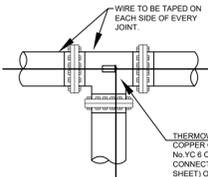
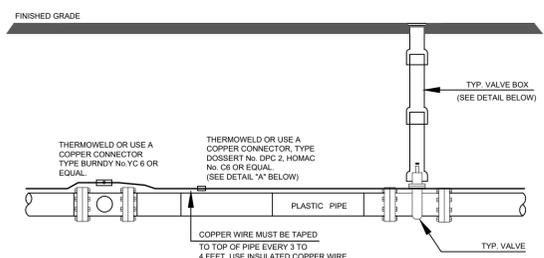
PACKAGED BACKFILL COMPOSITION:

75% gypsum
20% bentonite
5% sodium sulfate

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



ANODE LEAD ABOVE GRADE CONNECTION



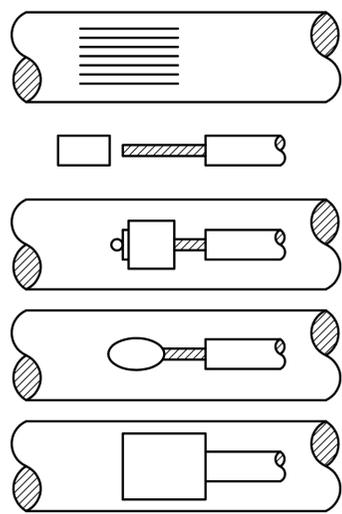
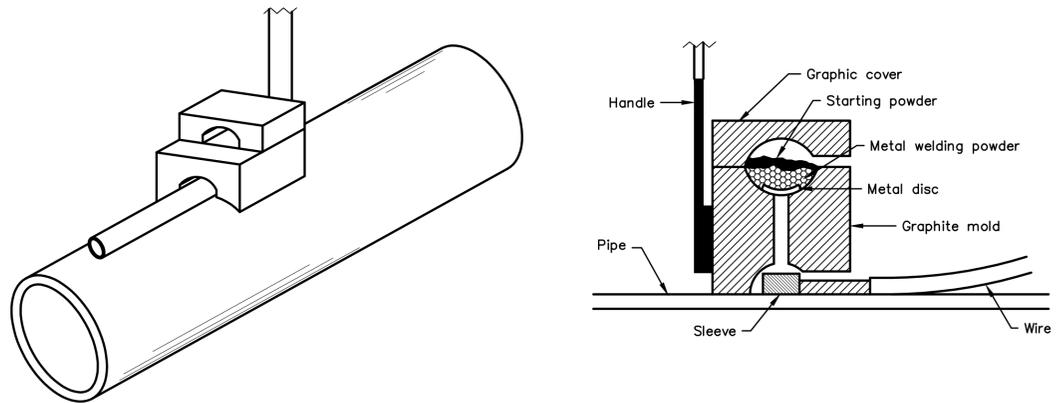
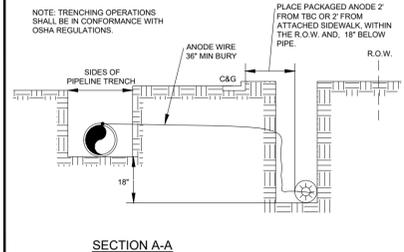
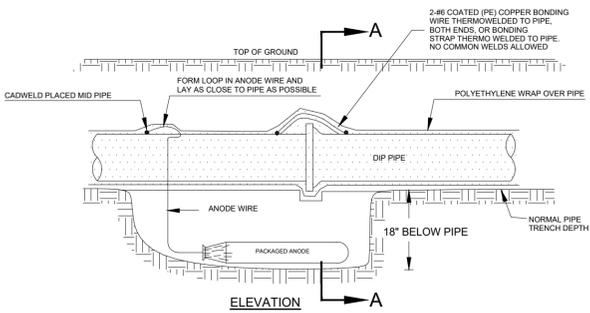
Anode Design
For use with DIP in conjunction with poly-wrap sleeves and piping in 1000 ohm-cm soil estimating a 5% holiday area.

Pipe Size Inches	Actual OD Inches	Anode Spacing Feet (see note 2)	Anode Weight (lb)
4	4.8	763	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. 9 lb anodes can be used on metal fittings when using PVC pipe.
3. Packaged anode to be wetted and covered with soil prior to backfilling.



NOTES:

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

EXOTHERMIC WELD PROCESS

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:

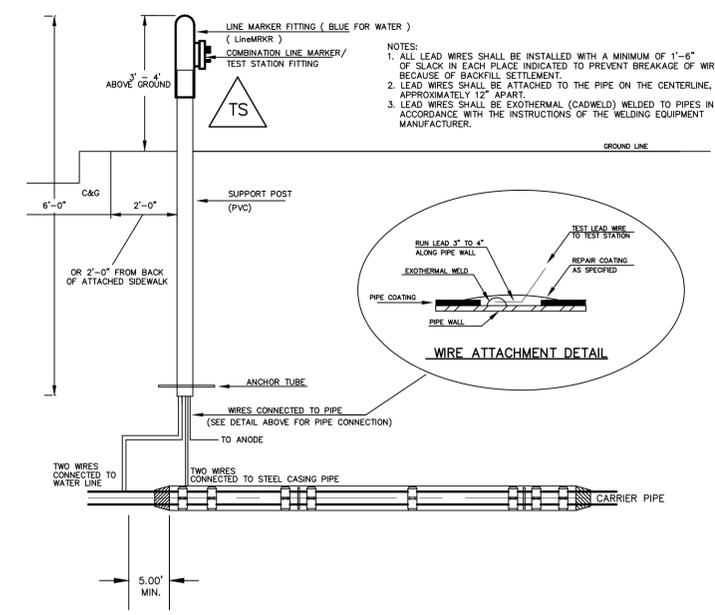
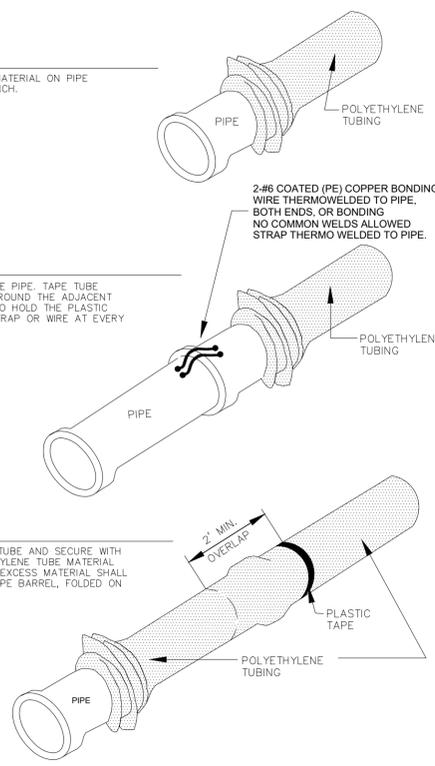
PLACE TUBE OF POLYETHYLENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO TRENCH.

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.



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.

1	2	3	4	No.	Revisions	Date	Appr.
TECH CONTRACTORS					11910 TOURMALINE DR. #130		
FALCON, CO 80831					719.495.7444		
TELEPHONE:							
MERIDIAN RANCH							
ROLLING HILLS RANCH NORTH FILING 2					AT MERIDIAN RANCH		
STREET AND UTILITY PLANS					DETAIL SHEET		
Scale	AS SHOWN	5	of	33	Drawn by	LOG	Checked by
						TAK	DATE
							NOVEMBER 2024
PCD PROJECT NO. SF2424							

ROLLING HILLS RANCH
NORTH FILING #1

GALEROS DRIVE
SEE ROLLING HILLS
RANCH NORTH
FILING #1 PLANS



BEFORE YOU DIG CALL 811

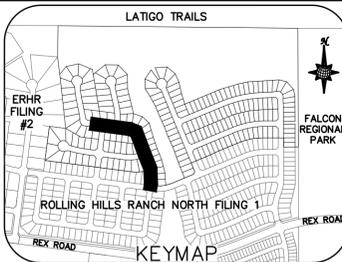
TWO WORKING DAYS
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

NOTE:

- CONTRACTOR TO CONFIRM INV ELEVATION OF EXISTING 8" PVC SS PRIOR TO NEW MANHOLE AND PIPE INSTALLATION
- CONTRACTOR TO CONFIRM INV ELEVATION OF EXISTING 24" RCP PRIOR TO NEW MANHOLE AND PIPE INSTALLATION

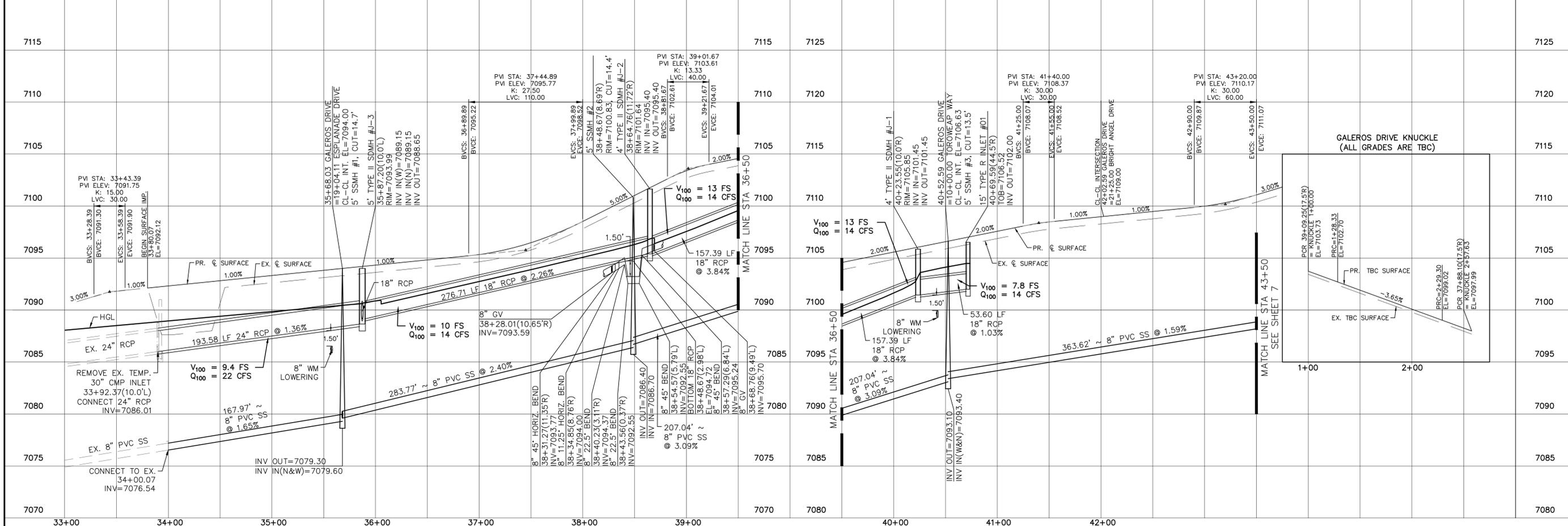
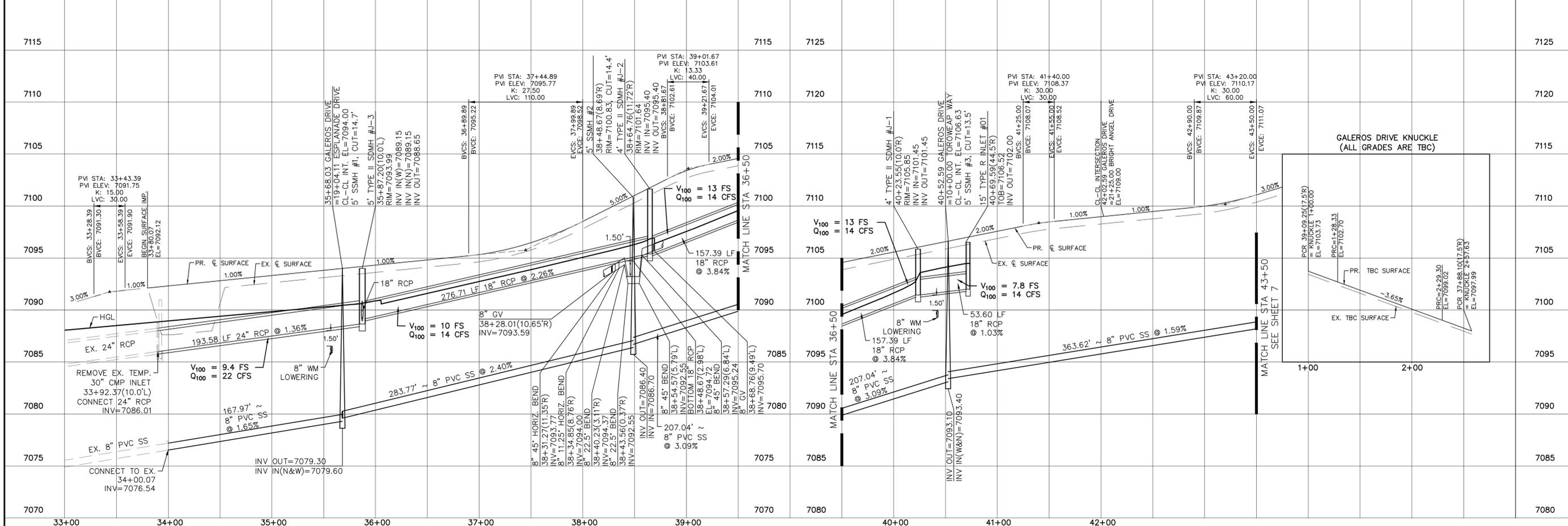
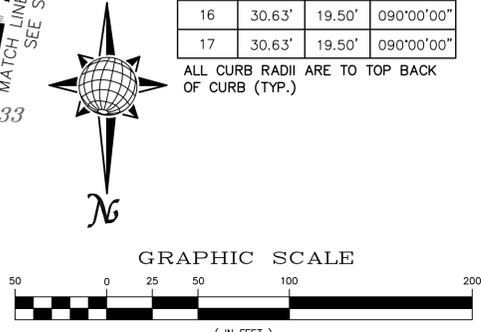
GALEROS DRIVE

URBAN LOCAL, DESIGN SPEED 25 MPH TO STA 42+40 URBAN LOCAL LOW VOLUME, DESIGN SPEED 20 MPH AFTER STA 42+40
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

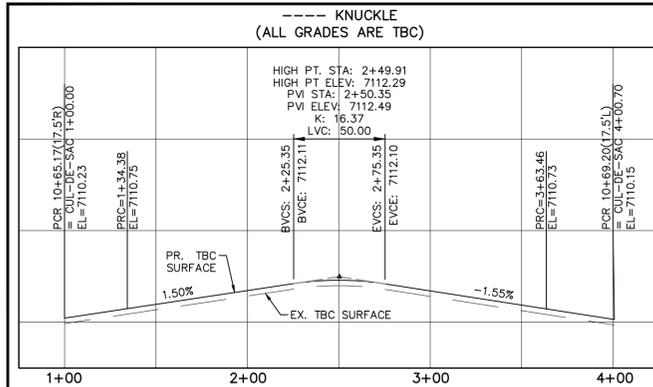


Curve Table			
CURVE	LENGTH	RADIUS	Delta
8	30.63'	19.50'	090°00'00"
9	30.63'	19.50'	090°00'00"
10	37.48'	35.45'	060°34'48"
11	28.33'	67.50'	024°03'00"
12	100.96'	52.50'	110°11'06"
13	28.33'	67.50'	024°03'00"
14	30.63'	19.50'	090°00'00"
15	30.63'	19.50'	090°00'00"
16	30.63'	19.50'	090°00'00"
17	30.63'	19.50'	090°00'00"

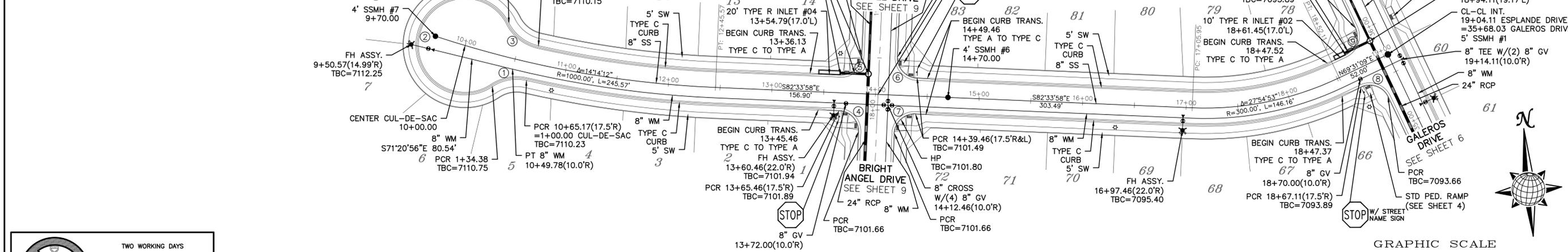
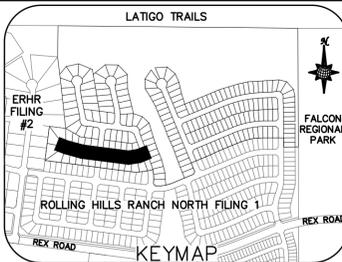
ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



Date		Appr.	
Date		Rev.	
No.	1	No.	
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444			
MERIDIAN RANCH			
ROLLING HILLS RANCH NORTH FILING 2 AT MERIDIAN RANCH STREET AND UTILITY PLANS GALEROS DRIVE			
Scale	AS SHOWN	6	of 33
Drawn by	LOG	Checked by	TAK
Date	NOVEMBER 2024		

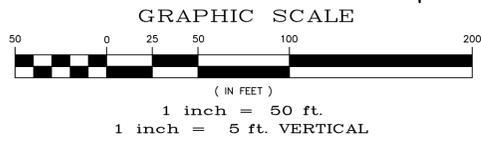


Curve Table				Curve Table			
CURVE	LENGTH	RADIUS	Delta	CURVE	LENGTH	RADIUS	Delta
1	34.38'	42.50'	046°21'00"	6	30.63'	19.50'	090°00'00"
2	229.08'	47.50'	276°19'18"	7	30.63'	19.50'	090°00'00"
3	37.24'	42.50'	050°12'10"	8	30.63'	19.50'	090°00'00"
4	30.63'	19.50'	090°00'00"	9	30.63'	19.50'	090°00'00"
5	30.63'	19.50'	090°00'00"	ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)			



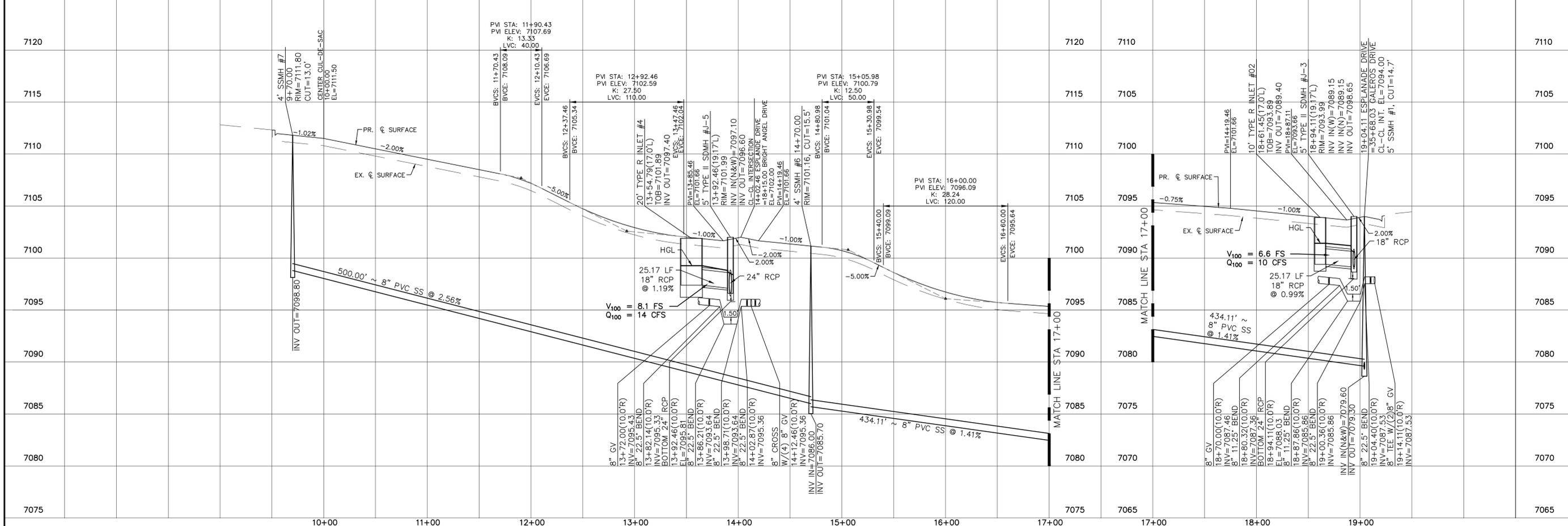
ESPLANDE DRIVE

URBAN LOCAL LOW VOLUME, DESIGN SPEED 20 MPH TO STA 13+65, URBAN LOCAL, DESIGN SPEED 25 MPH AFTER STA 13+65
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



TWO WORKING DAYS BEFORE YOU DIG CALL 811

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



Date		Appr.	
Date		Rev.	
No.	1		
No.	2		
No.	3		
No.	4		

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

MERIDIAN RANCH

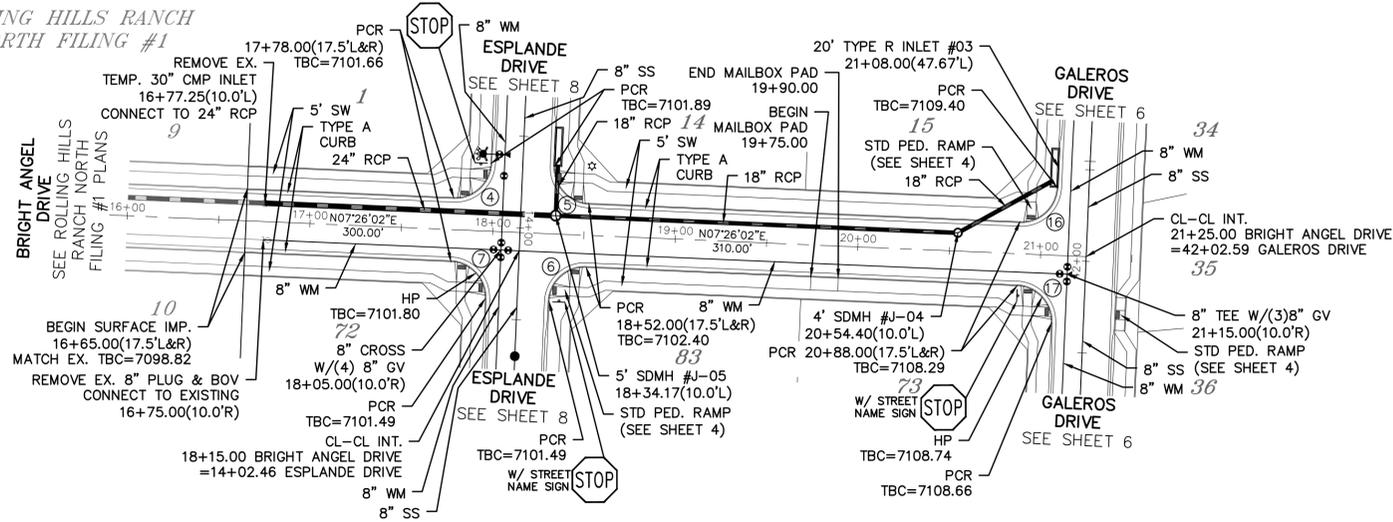
ROLLING HILLS RANCH NORTH FILING 2
AT MERIDIAN RANCH
STREET AND UTILITY PLANS
ESPLANDE DRIVE

Scale: AS SHOWN
8 of 33

Drawn by: LOG
Checked by: TJK
Date: NOVEMBER 2024

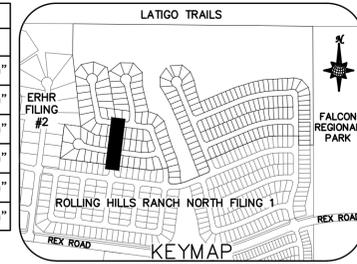
PROFESSIONAL ENGINEER
NO. 1429

ROLLING HILLS RANCH
NORTH FILING #1



Curve Table			
CURVE	LENGTH	RADIUS	Delta
4	30.63'	19.50'	090°00'00"
5	30.63'	19.50'	090°00'00"
6	30.63'	19.50'	090°00'00"
7	30.63'	19.50'	090°00'00"
16	30.63'	19.50'	090°00'00"
17	30.63'	19.50'	090°00'00"

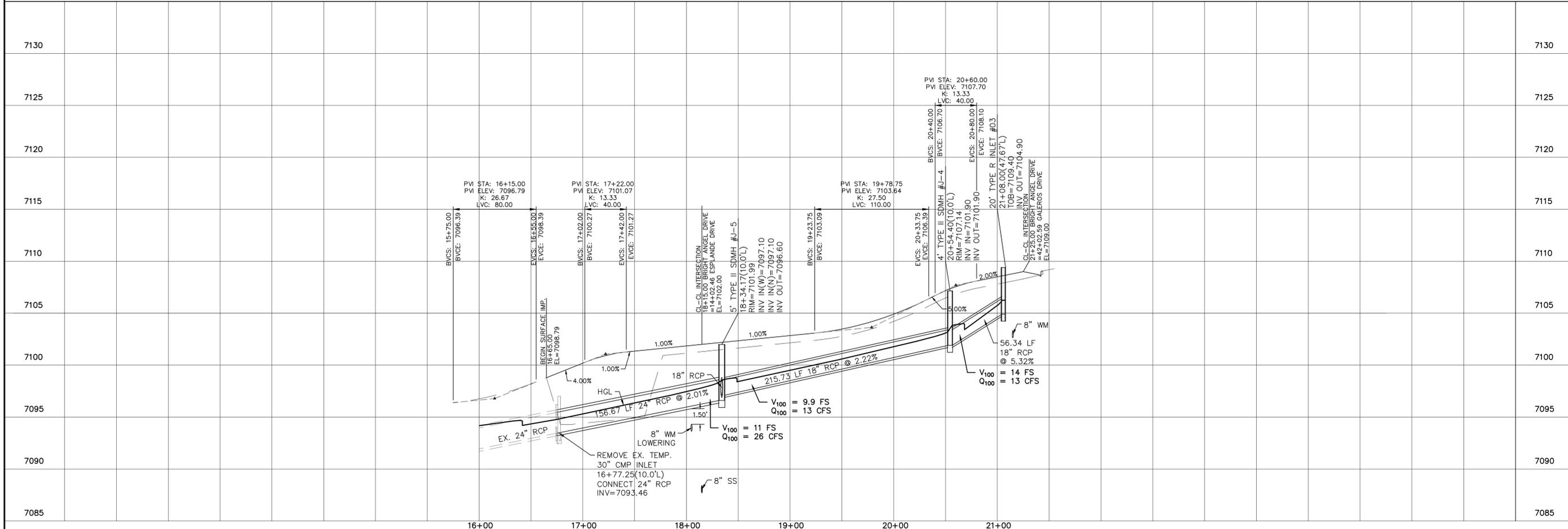
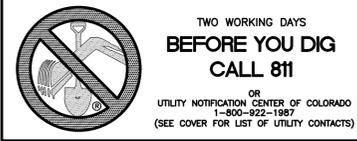
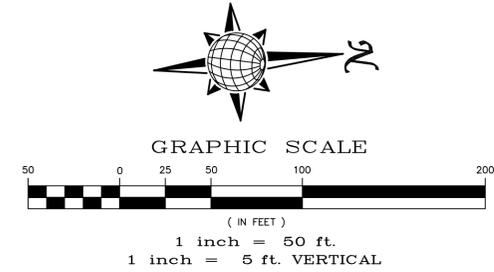
ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



NOTE:
1) CONTRACTOR TO CONFIRM INV ELEVATION OF EXISTING 24" RCP PRIOR TO NEW MANHOLE AND PIPE INSTALLATION

BRIGHT ANGEL DRIVE

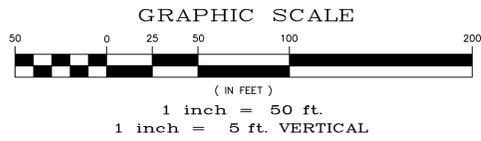
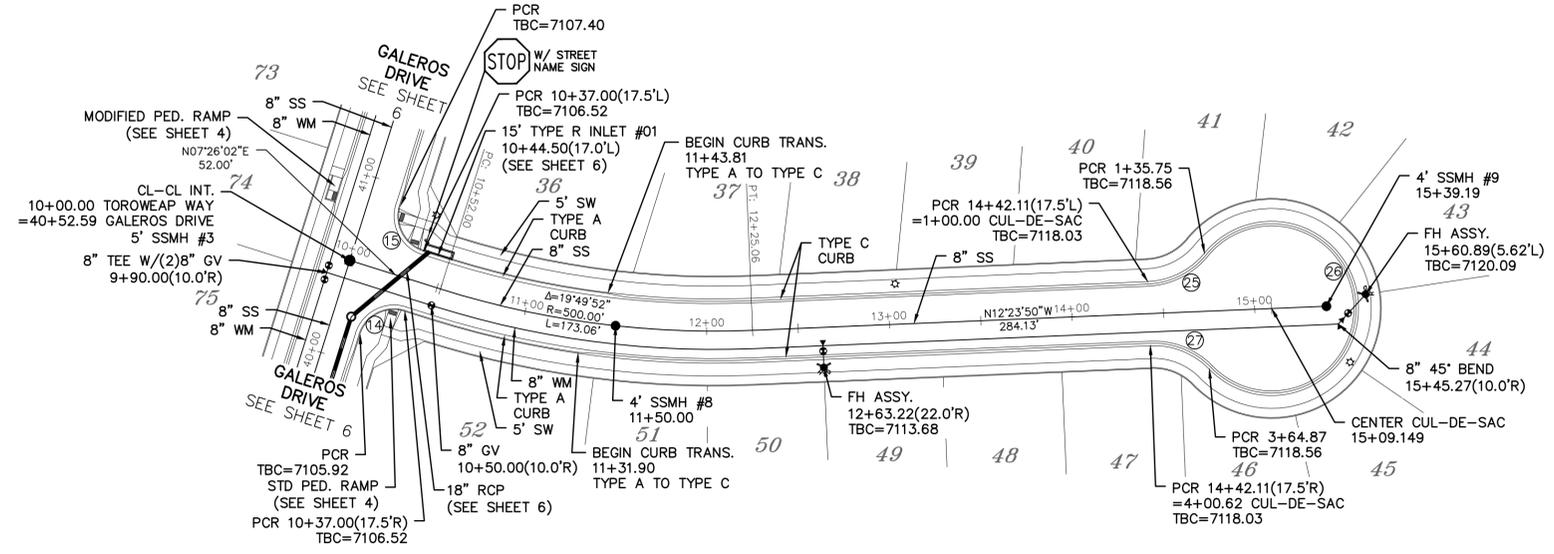
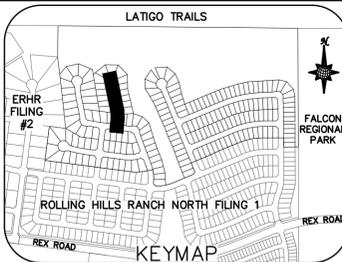
URBAN LOCAL, DESIGN SPEED 25 MPH
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



Date		Date		Date	
Appr.		Invt.		Date	
No.		Revisions			
TECH CONTRACTORS 11910 TOURMALINE DR, #130 FALCON, CO 80831 TELEPHONE: 719.495.7444					
MERIDIAN RANCH					
ROLLING HILLS RANCH NORTH FILING 2 AT MERIDIAN RANCH STREET AND UTILITY PLANS BRIGHT ANGEL DRIVE					
Drawn by	LOG	Checked by	TAK	Date	NOVEMBER 2024
Scale	AS SHOWN	9	of	33	

Curve Table			
CURVE	LENGTH	RADIUS	Delta
1	34.38'	42.50'	046°21'00"
2	229.08'	47.50'	276°19'18"
3	37.24'	42.50'	050°12'10"
4	30.63'	19.50'	090°00'00"
5	30.63'	19.50'	090°00'00"

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



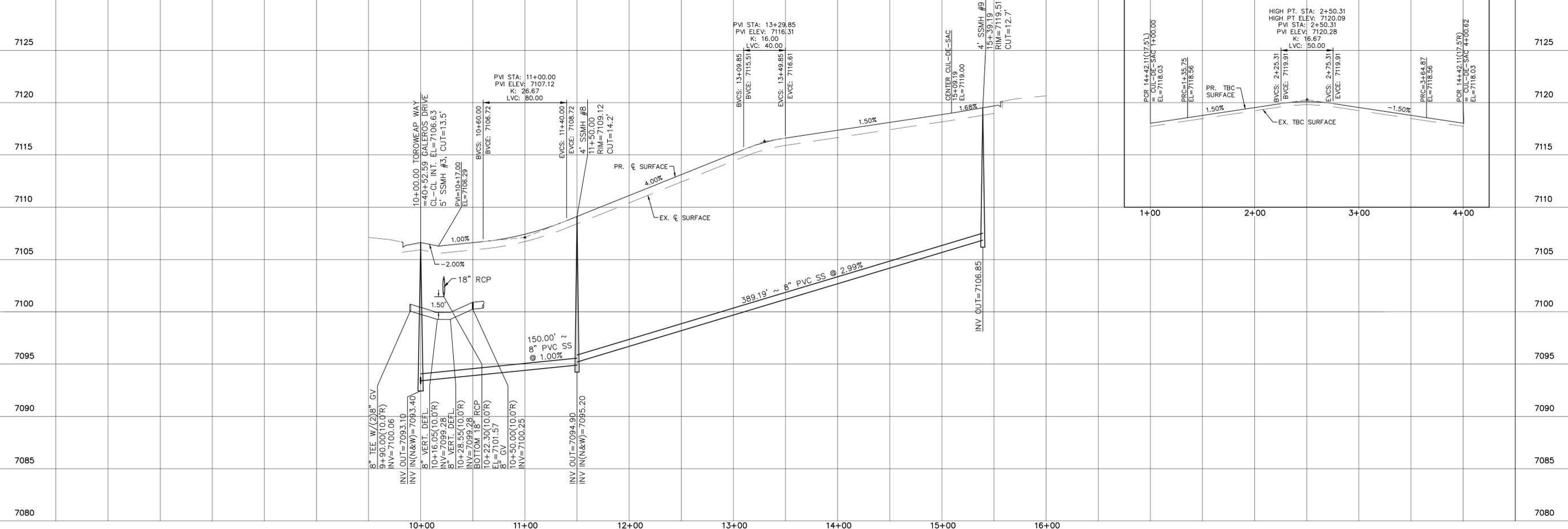
TOROWEAP WAY

URBAN LOCAL LOW VOLUME, DESIGN SPEED 20 MPH
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

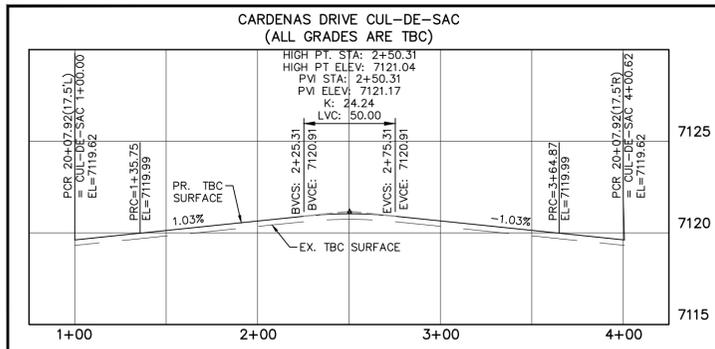
TOROWEAP WAY CUL-DE-SAC
(ALL GRADES ARE TBC)

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

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



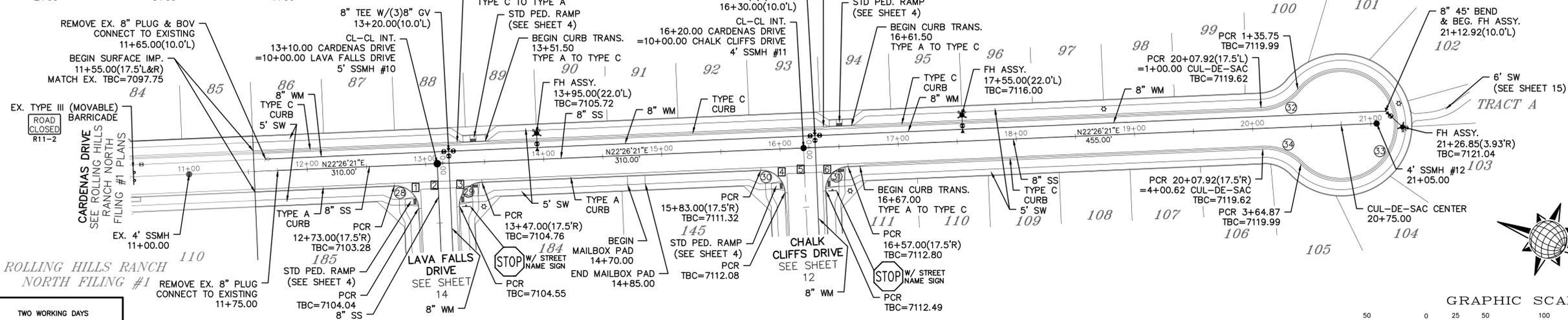
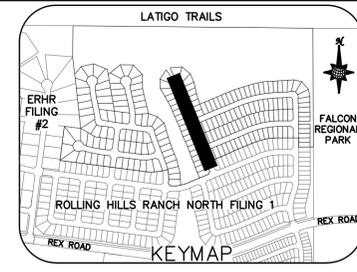
Date	
Appr.	
Revis.	
No.	
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444	
MERIDIAN RANCH	
ROLLING HILLS RANCH NORTH FILING 2 AT MERIDIAN RANCH STREET AND UTILITY PLANS TOROWEAP WAY	
Drawn by	LOG
Checked by	TAK
Date	NOVEMBER 2024
Scale	AS SHOWN
	10 of 33



- INSTALL CROSS PAN PER COUNTY STD SD-2-26
- 1 = 7103.18
 - 2 = 7103.52
 - 3 = 7103.86
 - 4 = 7111.22
 - 5 = 7111.56
 - 6 = 7111.90

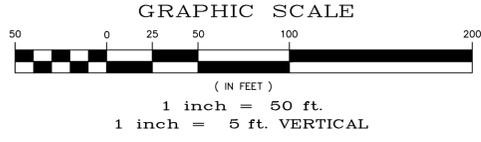
Curve Table				
CURVE	LENGTH	RADIUS	Delta	
28	30.63'	19.50'	090°00'00"	
29	30.63'	19.50'	090°00'00"	
30	30.63'	19.50'	090°00'00"	
31	30.63'	19.50'	090°00'00"	
32	35.75'	42.50'	048°11'23"	
33	229.13'	47.50'	276°22'46"	
34	35.75'	42.50'	048°11'23"	

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



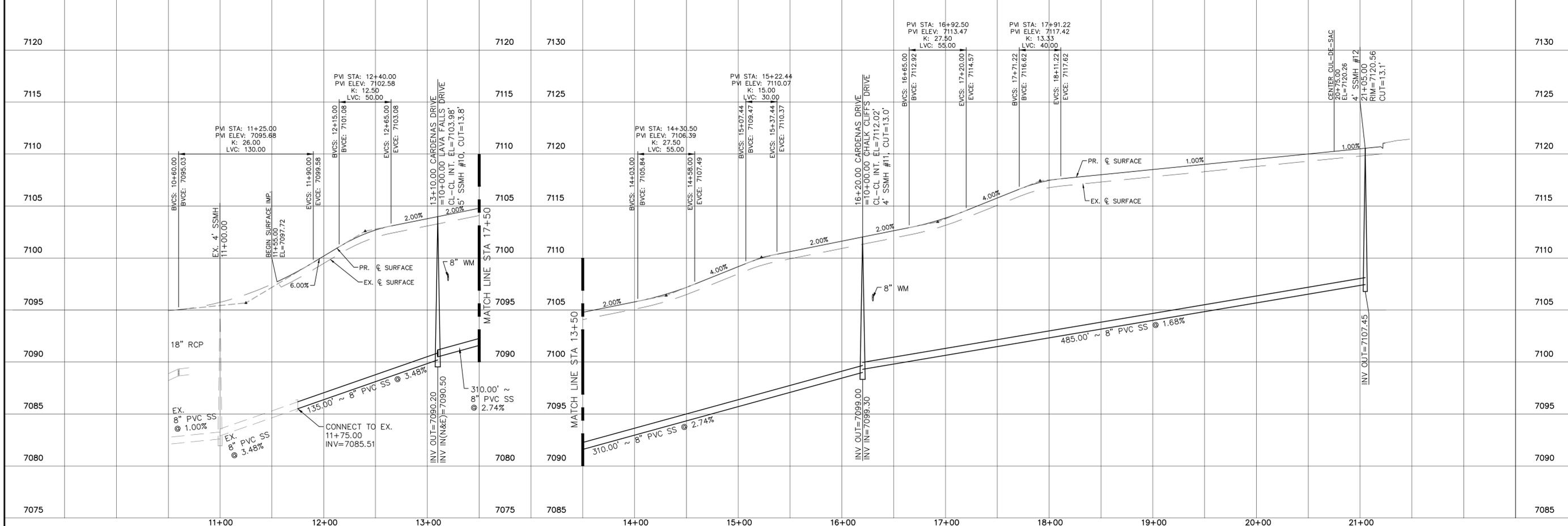
CARDENAS DRIVE

URBAN LOCAL, DESIGN SPEED 20 MPH TO STA 16+57 URBAN LOCAL LOW VOLUME, DESIGN SPEED 20 MPH AFTER STA 16+57
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



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)



1	2	3	4
No.	Revisions	Date	Appr.

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

MERIDIAN RANCH

ROLLING HILLS RANCH NORTH FILING 2
AT MERIDIAN RANCH
STREET AND UTILITY PLANS
CARDENAS DRIVE

Drawn by LOG
Checked by TAK
Date NOVEMBER 2024

Scale AS SHOWN
11 of 33

COLORADO PROFESSIONAL ENGINEER
1429

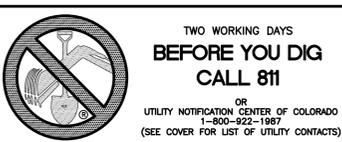
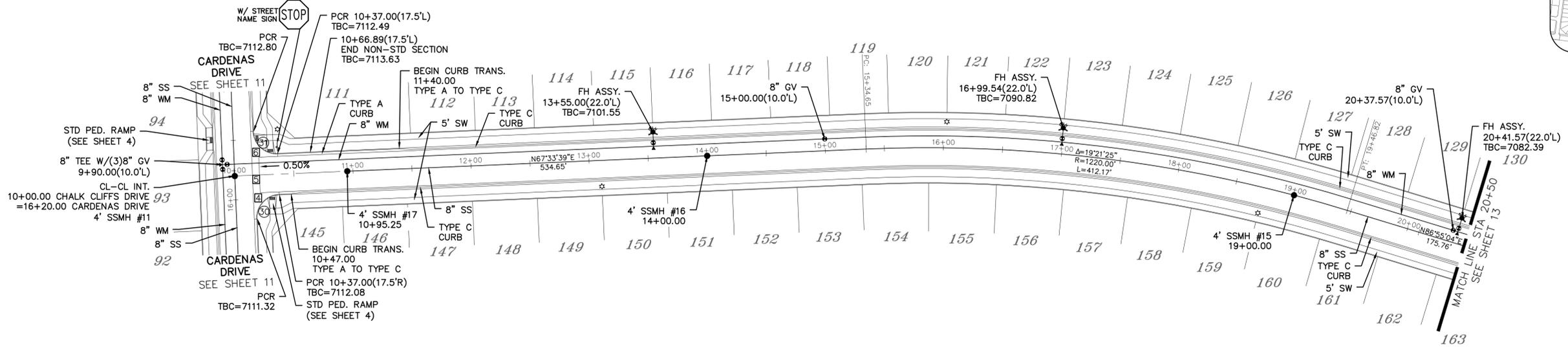
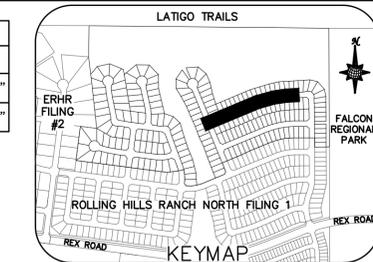
PCD PROJECT NO. SF2424

INSTALL CROSS PAN
PER COUNTY STD
SD-2-26

4 = 7111.22
5 = 7111.56
6 = 7111.90

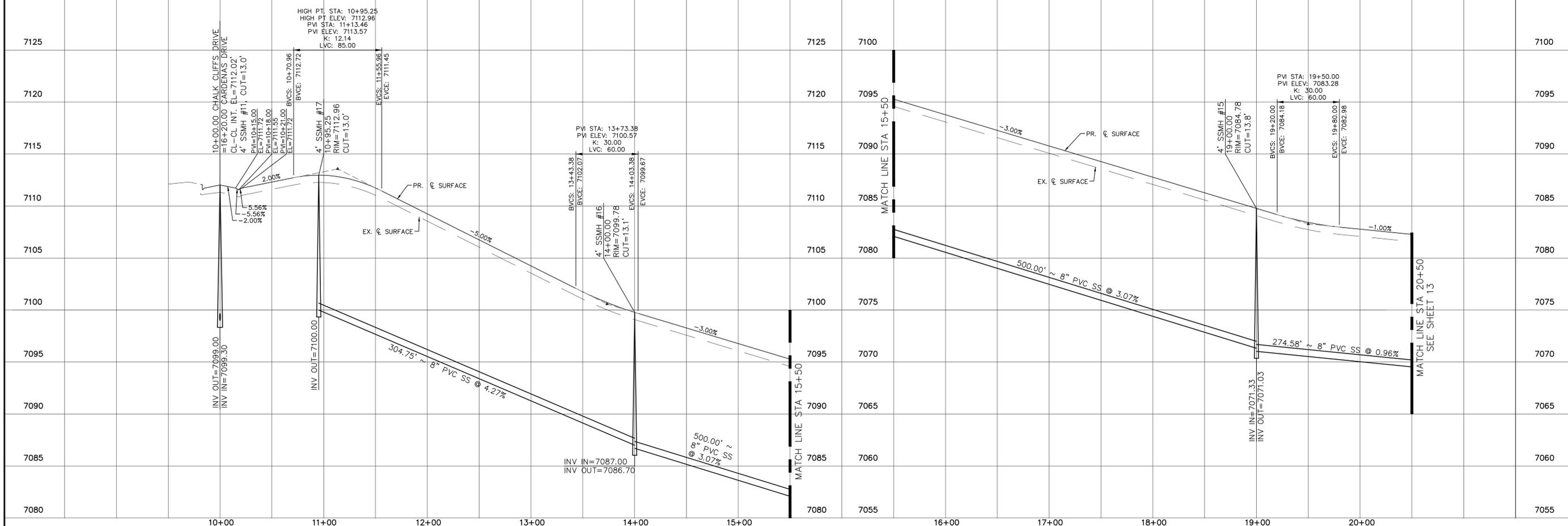
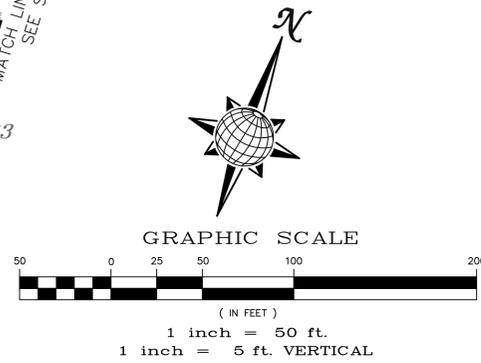
Curve Table			
CURVE	LENGTH	RADIUS	Delta
30	30.63'	19.50'	090°00'00"
31	30.63'	19.50'	090°00'00"

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



CHALK CLIFFS DRIVE

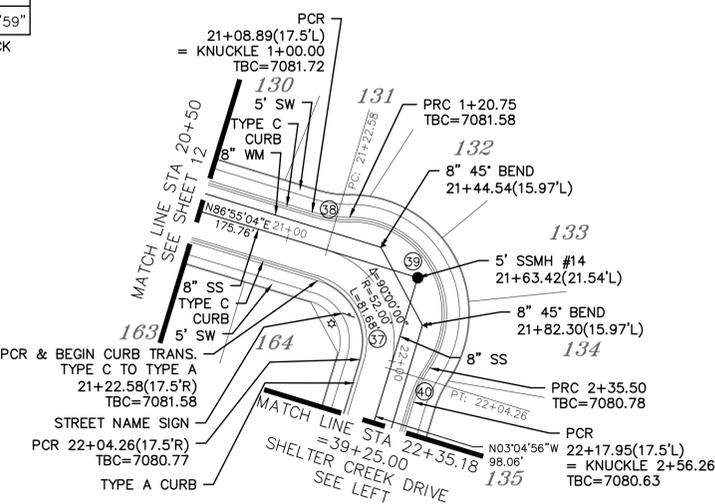
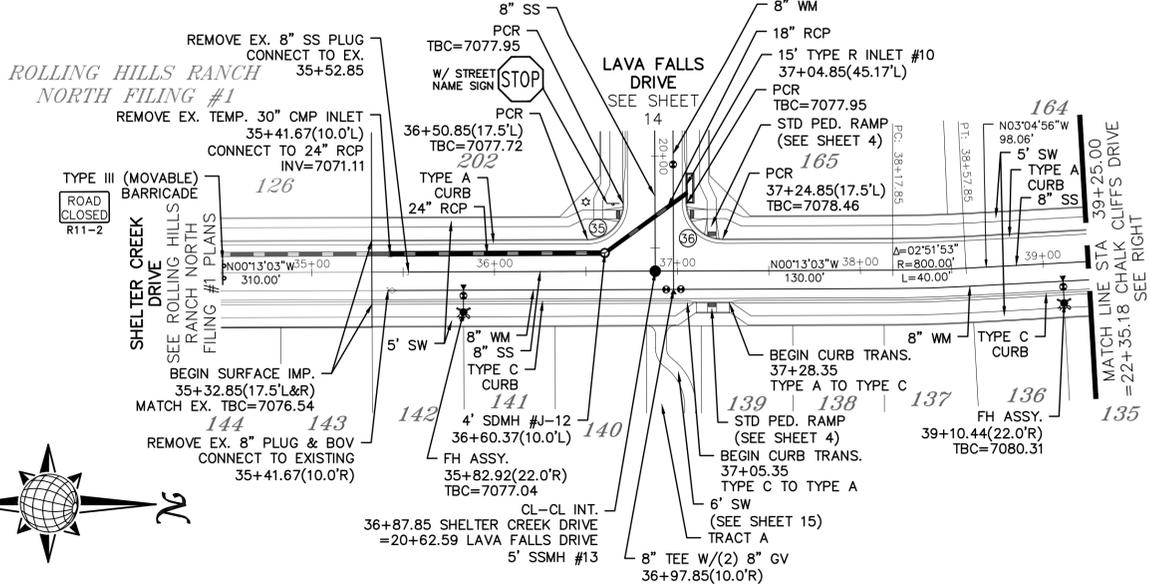
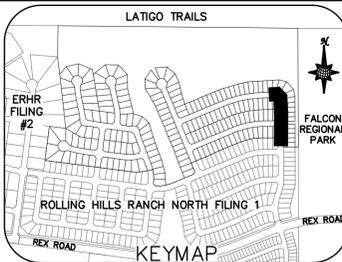
URBAN LOCAL, DESIGN SPEED 25 MPH
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



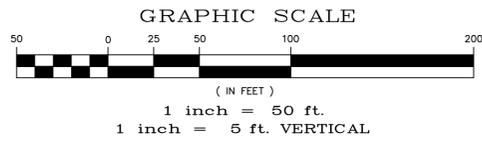
Date	Appr.	Invt.	Date
No.	Revisions		
1		TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444	
2			
3			
4		ROLLING HILLS RANCH NORTH FILING 2 AT MERIDIAN RANCH STREET AND UTILITY PLANS CHALK CLIFFS DRIVE	
Scale	AS SHOWN	Drawn by	LOG
		Checked by	TAK
	12 of 33	Date	NOVEMBER 2024

Curve Table			
CURVE	LENGTH	RADIUS	Delta
35	30.63'	19.50'	090°00'00"
36	30.63'	19.50'	090°00'00"
37	54.19'	34.50'	090°00'00"
38	20.75'	67.50'	017°36'59"
39	114.75'	52.50'	125°13'57"
40	20.75'	67.50'	017°36'59"

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



NOTE:
 1) CONTRACTOR TO CONFIRM INV ELEVATION OF EXISTING 8" PVC SS PRIOR TO NEW MANHOLE AND PIPE INSTALLATION
 2) CONTRACTOR TO CONFIRM INV ELEVATION OF EXISTING 24" RCP PRIOR TO NEW MANHOLE AND PIPE INSTALLATION



SHELTER CREEK DRIVE

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

CHALK CLIFFS DRIVE

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

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)

7095						7095						7100
7090						7090						7095
7085						7085						7090
7080						7080						7085
7075						7075						7080
7070						7070						7075
7065						7065						7070
7060						7060						7065
7055						7055						7060
7050						7050						7055

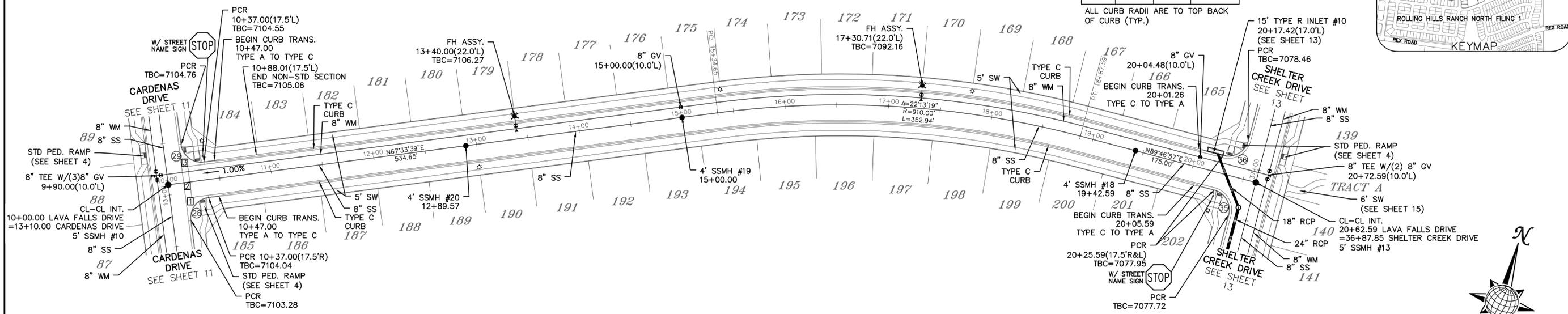
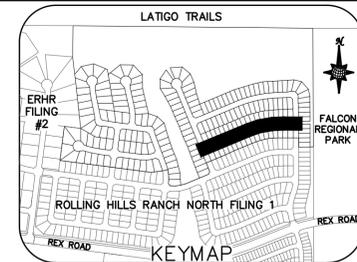
1	2	3	4	No.	Revisions
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444					
MERIDIAN RANCH					
ROLLING HILLS RANCH NORTH FILING 2 AT MERIDIAN RANCH STREET AND UTILITY PLANS SHELTER CREEK DRIVE					
Scale	AS SHOWN	13	of	33	
Drawn by	LOG	Checked by	TAK	Date	NOVEMBER 2024

INSTALL CROSS PAN
PER COUNTY STD
SD-2-26

- = 7103.18
- ▣ = 7103.52
- ◻ = 7103.86

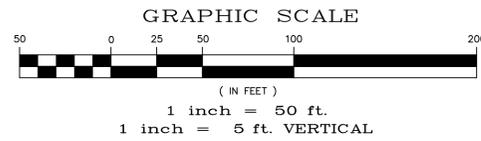
CURVE	LENGTH	RADIUS	Delta
28	30.63'	19.50'	090°00'00"
29	30.63'	19.50'	090°00'00"
35	30.63'	19.50'	090°00'00"
36	30.63'	19.50'	090°00'00"

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



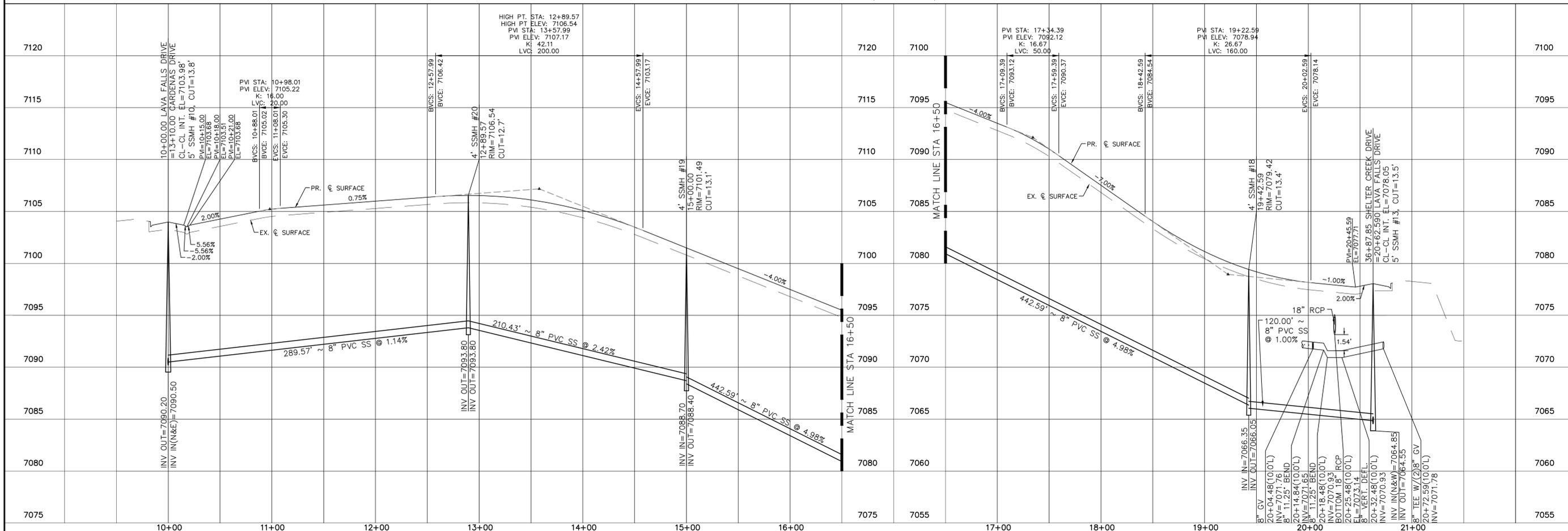
LAVA FALLS DRIVE

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

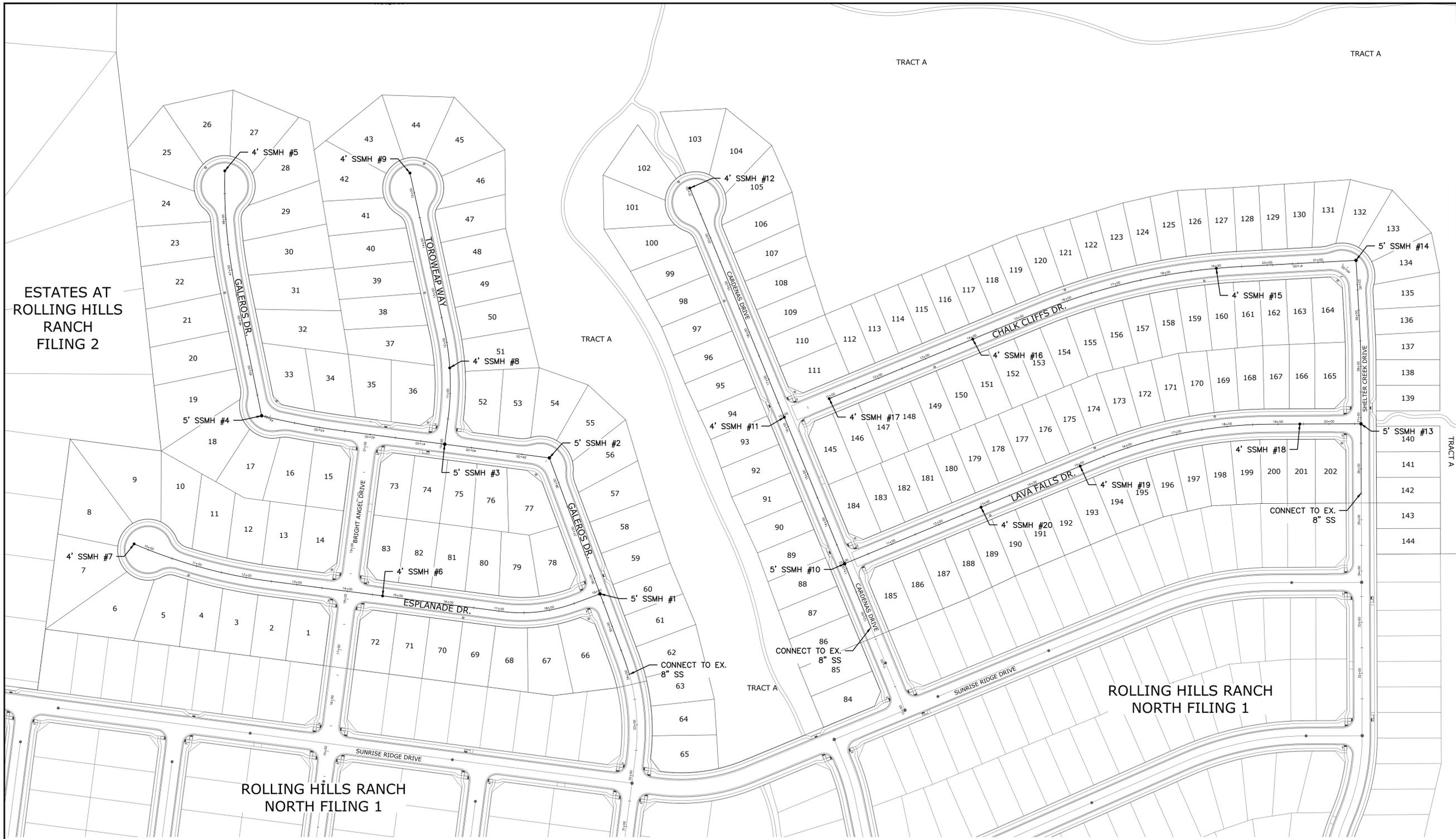


**TWO WORKING DAYS
BEFORE YOU DIG
CALL 811**

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



Date	Appr.	Invt.	Date
No.	Revisions		
1	TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444		
MERIDIAN RANCH			
ROLLING HILLS RANCH NORTH FILING 2 AT MERIDIAN RANCH STREET AND UTILITY PLANS LAVA FALLS DRIVE			
Scale	Drawn by	Checked by	Date
AS SHOWN	LOG	TAK	NOVEMBER 2024
14 of 33	PROFESSIONAL ENGINEER 71429		

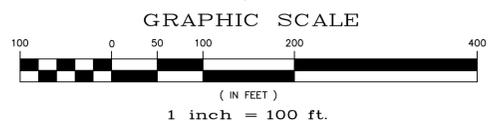


ESTATES AT ROLLING HILLS RANCH FILING 2

ROLLING HILLS RANCH NORTH FILING 1

ROLLING HILLS RANCH NORTH FILING 1

FALCON REGIONAL PARK



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

NOTE:
 8" SS UNLESS OTHERWISE LABELED.

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

Scale AS SHOWN 16 of 33	Drawn by LOG	Checked by TAK	Date NOVEMBER 2024																														
	ROLLING HILLS RANCH NORTH FILING 2 AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL SANITARY SEWER																																
	 MERIDIAN RANCH																																
	TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444																																
<table border="1"> <thead> <tr> <th>No.</th> <th>Revisions</th> <th>Date</th> <th>Invt.</th> <th>Appr.</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				No.	Revisions	Date	Invt.	Appr.	Date	1						2						3						4					
No.	Revisions	Date	Invt.	Appr.	Date																												
1																																	
2																																	
3																																	
4																																	



ESTATES AT ROLLING HILLS RANCH FILING 2

ROLLING HILLS RANCH NORTH FILING 1

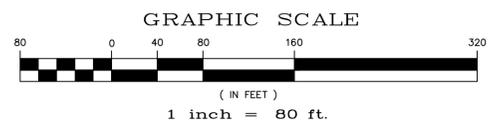
TRACT A

TRACT A

SEE SHEET 18

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)



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

No.	Revisions	Date	Appr.	Date
1				
2				
3				
4				

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



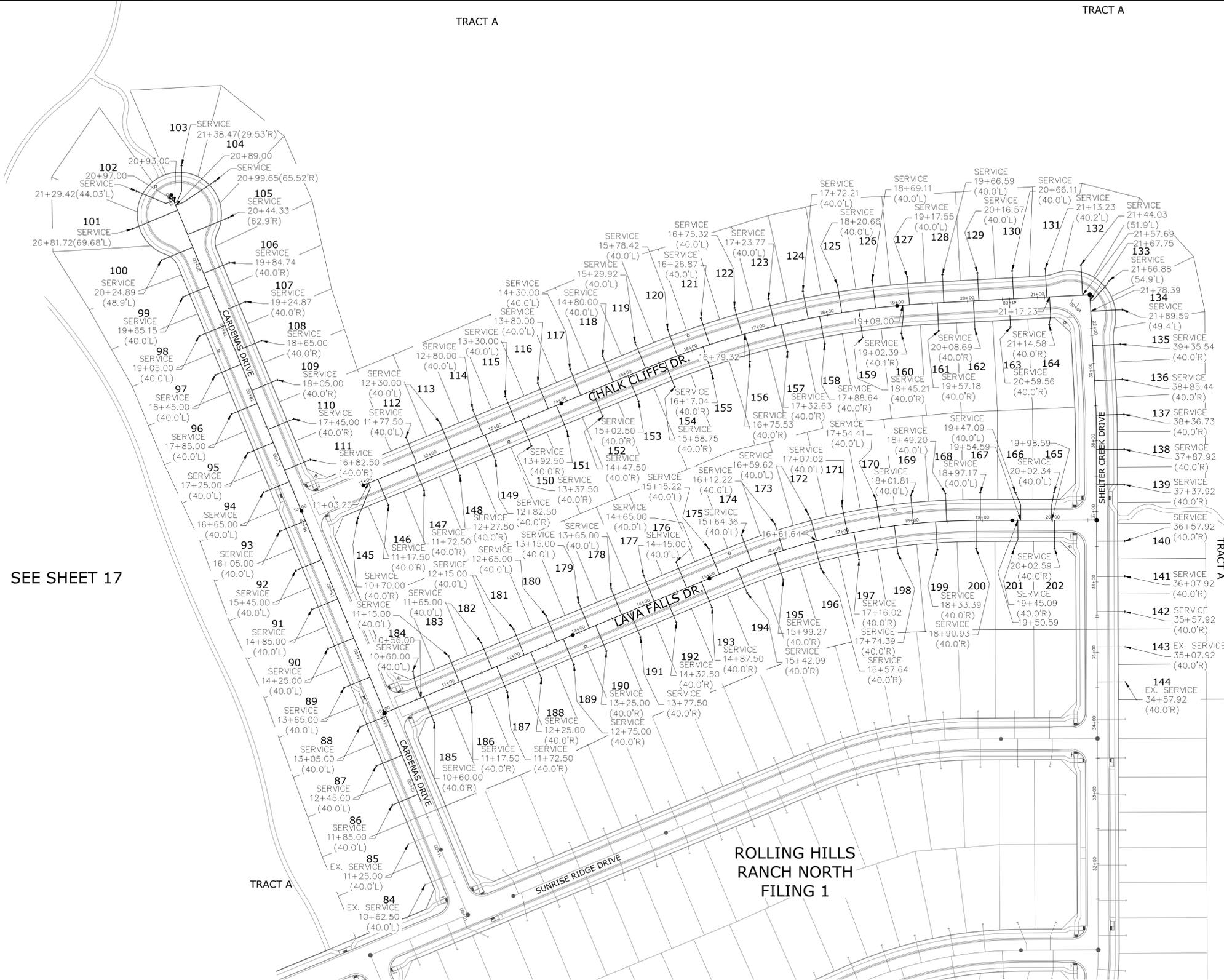
ROLLING HILLS RANCH NORTH FILING 2
AT MERIDIAN RANCH
STREET AND UTILITY PLANS
OVERALL SANITARY SEWER SERVICES

Drawn by LOG
Checked by TJK
Date NOVEMBER 2024

Scale AS SHOWN
17 of 33



S:\OneDrive\Civil\Proj\Rolling Hills Ranch North Filing 2\DWG\PLAN SHEETS\Improvement Plans\03-RHRN2.dwg, 10/30/2024 11:45:15 AM

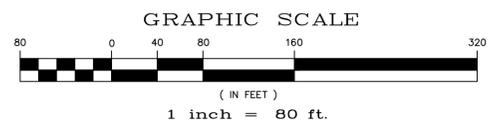


SEE SHEET 17

FALCON REGIONAL PARK

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)



NOTE:

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

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

Scale	AS SHOWN	18	of	33
Drawn by	LOG	Checked by	TAK	Date
ROLLING HILLS RANCH NORTH FILING 2 AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL SANITARY SEWER SERVICES				
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444				
No.	1	2	3	4
Revisions				
Date				
Appr.				



ESTATES AT ROLLING HILLS RANCH FILING 2

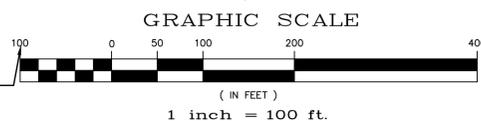
ROLLING HILLS RANCH NORTH FILING 1

ROLLING HILLS RANCH NORTH FILING 1

FALCON REGIONAL PARK

LEGEND

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

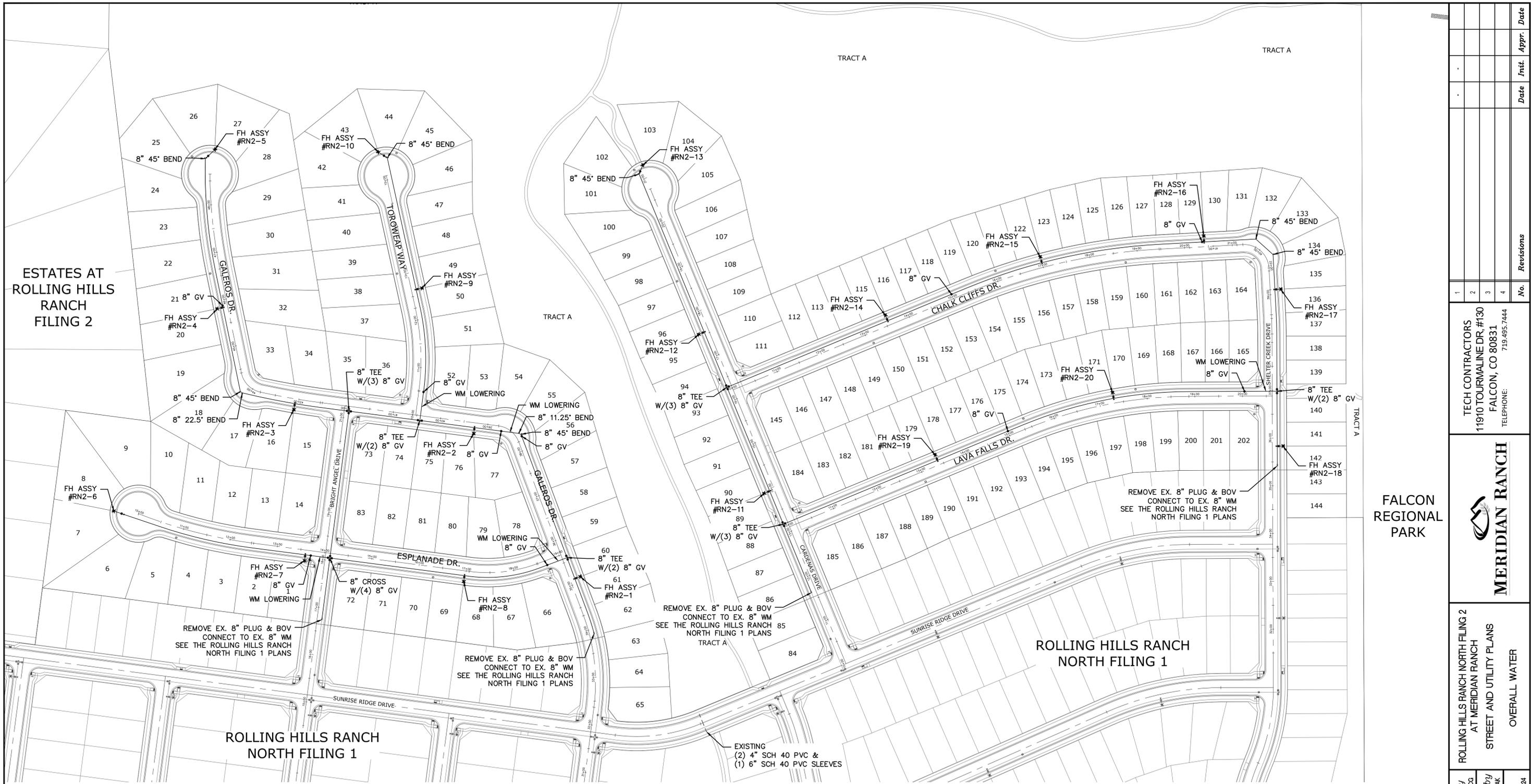


NOTE:
 CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
 EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
 1) ROUGH GRADING FOR ROLLING HILLS RANCH AT MERIDIAN RANCH
 2) ESTATES AT ROLLING HILLS RANCH FILING 2
 3) PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH
 4) THE SANCTUARY FILING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

TWO WORKING DAYS BEFORE YOU DIG CALL 811

OR
 UTILITY NOTIFICATION CENTER
 1-800-822-8844
 (SEE COVER FOR LIST OF UTILITY CONTACTS)

1		2		3		4	
TECH CONTRACTORS		11910 TOURMALINE DR. #130		FALCON, CO 80831		TELEPHONE: 719.495.7444	
MERIDIAN RANCH		ROLLING HILLS RANCH NORTH FILING 2		AT MERIDIAN RANCH		STREET AND UTILITY PLANS	
Overall UNDERDRAIN		Drawn by LOG		Checked by TAK		Date NOVEMBER 2024	
AS SHOWN		19		of		33	
Date		Appr.		Date		Date	
Revisions		No.		No.		No.	



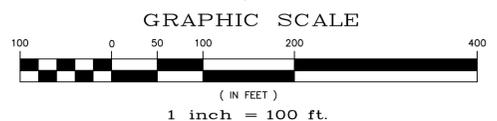
ESTATES AT ROLLING HILLS RANCH FILING 2

ROLLING HILLS RANCH NORTH FILING 1

ROLLING HILLS RANCH NORTH FILING 1

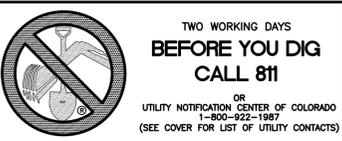
FALCON REGIONAL PARK

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

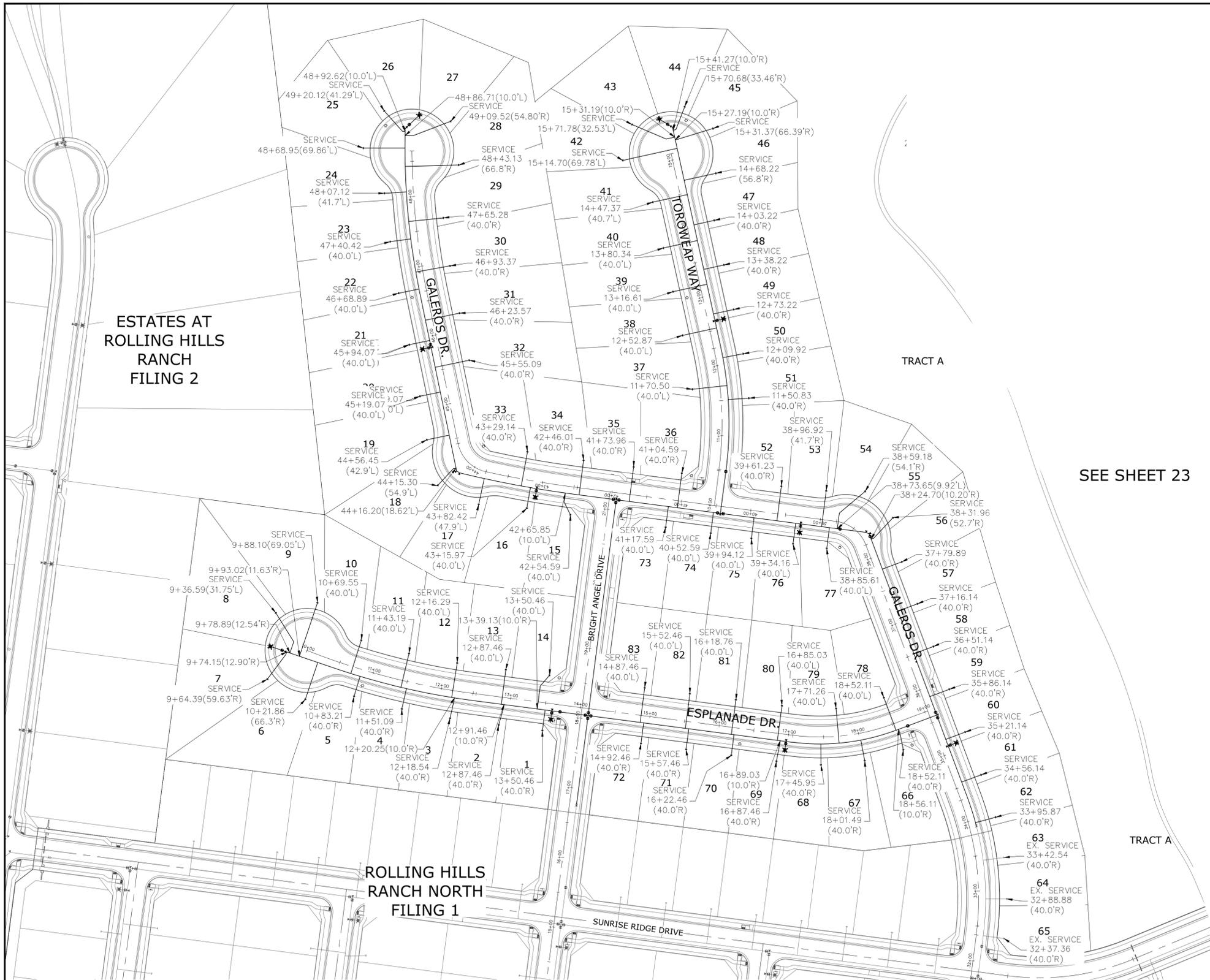


NOTE:
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 4) THE SANCTUARY FILING 1 AT MERIDIAN RANCH

NOTE:
 8" WM UNLESS OTHERWISE LABELED.



TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444		No.		Revisions		Date		Appr.	
MERIDIAN RANCH		1		2		3		4	
ROLLING HILLS RANCH NORTH FILING 2 AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL WATER		AS SHOWN		21		of		33	
Drawn by LOG		Checked by TAK		Date NOVEMBER 2024		Scale		Date	



ESTATES AT ROLLING HILLS RANCH FILING 2

ROLLING HILLS RANCH NORTH FILING 1

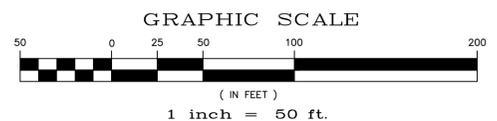
TRACT A

TRACT A

SEE SHEET 23

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)



NOTE:
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EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
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2) ESTATES AT ROLLING HILLS RANCH FILING 2
3) PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH
4) THE SANCTUARY FILING 1 AT MERIDIAN RANCH

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

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

No.	Revisions	Date	Appr.	Date
1				
2				
3				
4				

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

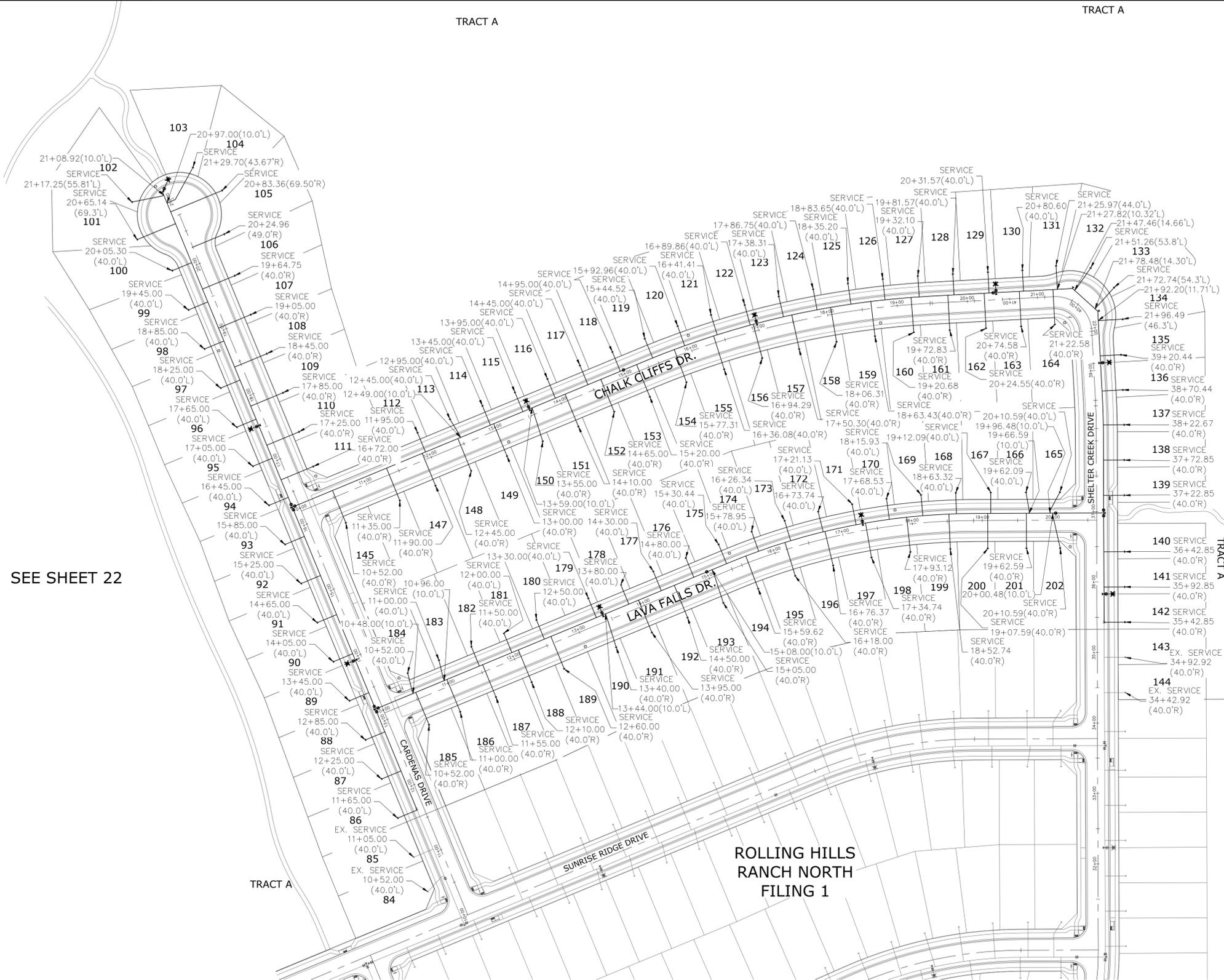


ROLLING HILLS RANCH NORTH FILING 2
AT MERIDIAN RANCH
STREET AND UTILITY PLANS
OVERALL WATER SERVICES

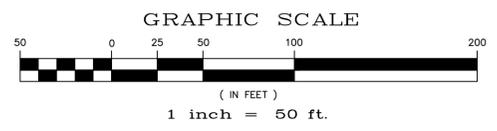
Drawn by LOG
Checked by TAK
Date NOVEMBER 2024

Scale AS SHOWN
22 of 33





SEE SHEET 22



NOTE:
 CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
 EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
 1) ROUGH GRADING FOR ROLLING HILLS RANCH AT MERIDIAN RANCH
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NOTE:
 3/4" WATER SERVICE UNLESS OTHERWISE LABELED.

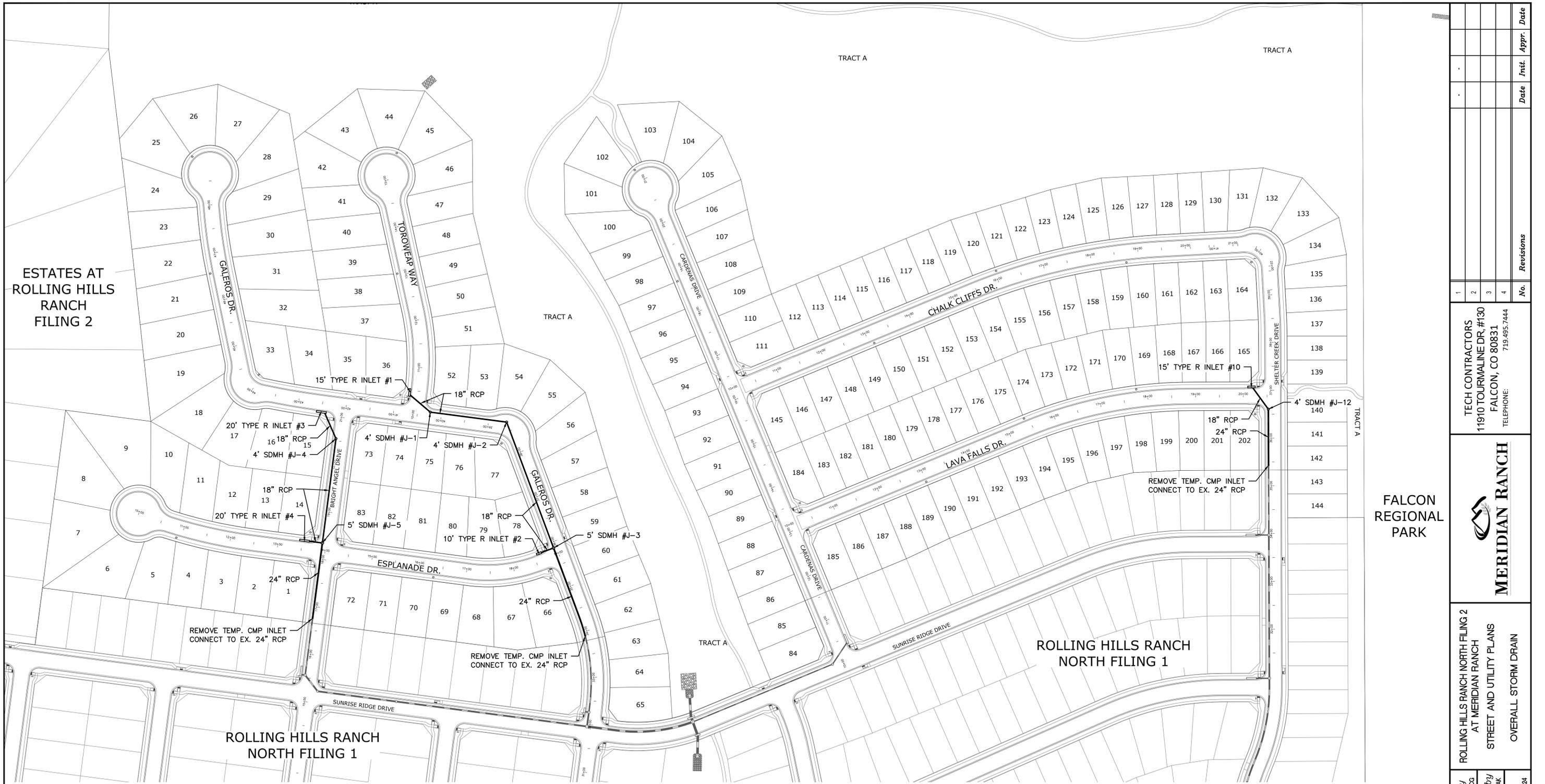
RESIDENTIAL HOME
4,800 SQ. FT. (MAX)
VB CONSTRUCTION
REQ'D FIRE FLOW: 1750 GPM
HYDRANT SPACING: 500' (MAX)
HOSE LAY DIST.: 250' (MAX)
NON-SPRINKLER

TWO WORKING DAYS BEFORE YOU DIG CALL 811

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

FALCON REGIONAL PARK

1 2 3 4 No.	1	2	3	4	Revisions
	TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444				
	 MERIDIAN RANCH				
	ROLLING HILLS RANCH NORTH FILING 2 AT MERIDIAN RANCH STREET AND UTILITY PLANS OVERALL WATER SERVICES				
Scale	AS SHOWN	23	of	33	
Drawn by	LOG	Checked by	TAK	Date	NOVEMBER 2024
					

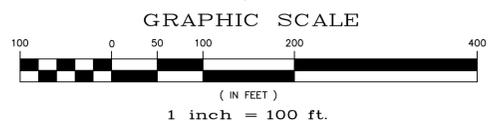


ESTATES AT ROLLING HILLS RANCH FILING 2

FALCON REGIONAL PARK

ROLLING HILLS RANCH NORTH FILING 1

ROLLING HILLS RANCH NORTH FILING 1



NOTE:
 CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
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 3) PREDEVELOPMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH
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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)

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

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



ROLLING HILLS RANCH NORTH FILING 2
 AT MERIDIAN RANCH
 STREET AND UTILITY PLANS
 OVERALL STORM DRAIN

Drawn by LOG
 Checked by TJK
 Date NOVEMBER 2024

Scale AS SHOWN
 24 of 33

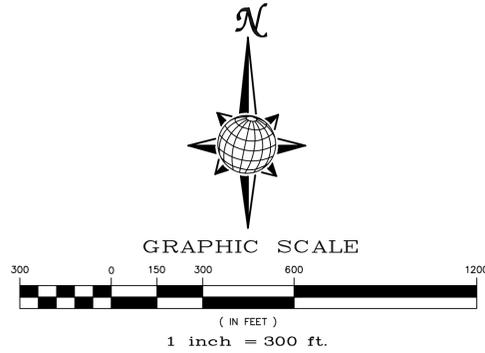


S:\OneDrive\Civil\Proj\Rolling Hills Ranch North Filing 2\DWG\PLAN SHEETS\Improvement Plans\03-RHRN2.dwg, 10/30/2024 11:49:46 AM

EL PASO COUNTY STANDARD NOTES:

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF SITE WATERS, INCLUDING WETLANDS.
- NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- CONTROL MEASURES MUST BE INSTALLED PRIOR COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS, ESTABLISHED OR EQUIVALENT PERMANENT STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS 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.
- 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

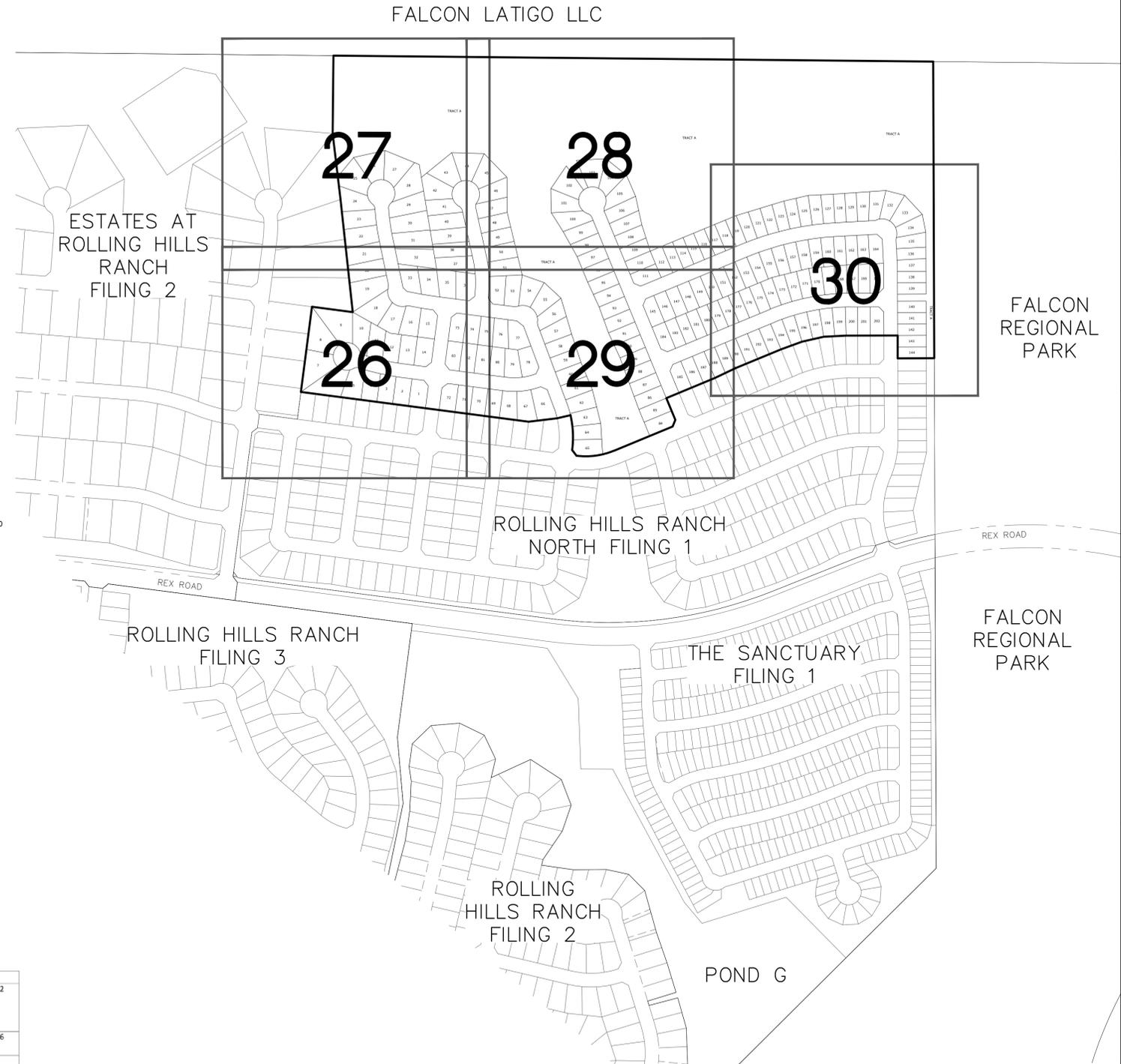


Stage	Description	Control Measures	Begin Date	End Date
Stage 1	Overlot Grading	Silt fence & VTC Temporary Sed. Basins Swale Checks as needed Surface Roughening	May 2022	August 2022
Stage 2	Underground utilities	Perimeter Control Inlet Protection	June 2025	August 2026
Stage 3	Home Construction	Inlet Protection Individual Lot Perimeter Control	August 2026	November 2027
Final	Stabilization	Final Stabilization Permanent Seeding Permanent Measures	November 2027	

EARTHWORK QUANTITIES

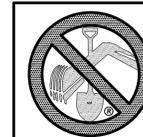
NET YARDS	BALANCE	
TOTAL STRIPPINGS	0.38 AC.	180 CY
NET YARDS	CUT 0 CY	FILL 1,686 CY
20% COMPACTION FACTOR		

NOTE: FILL WILL BE GENERATED FROM UTILITY INSTALLATION.



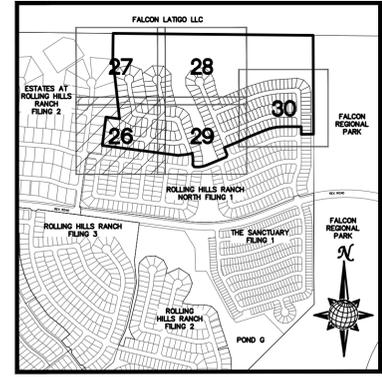
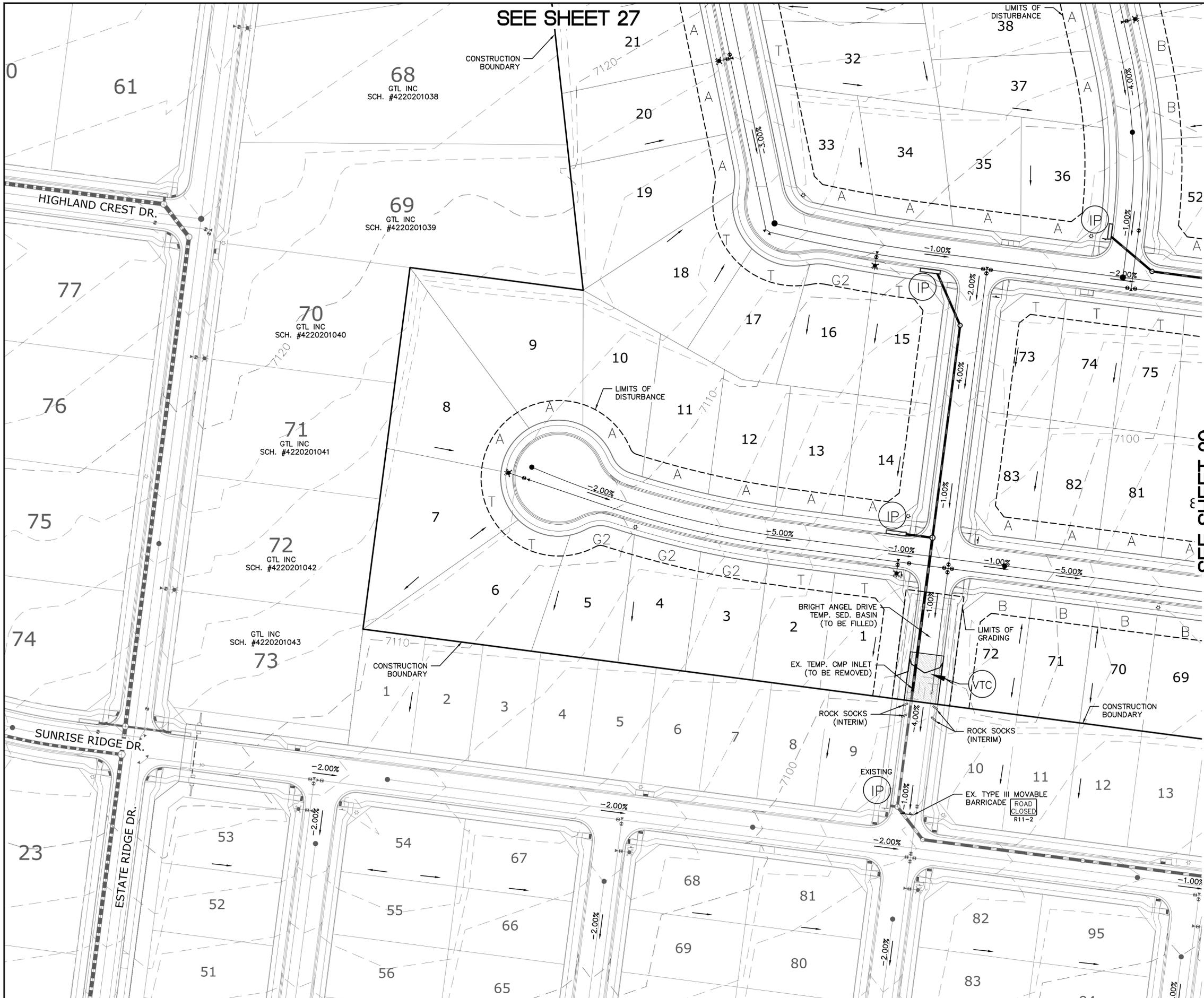
NOTE:

- EXISTING VEGETATION ON THE PROJECT SITE AND THE IN SURROUNDING AREAS CONSISTS OF A MIXTURE OF NATIVE GRASSES AND WEEDS WITH COVERAGE APPROXIMATING 70% DENSITY UNLESS OTHERWISE NOTED. SOME AREAS HAVE NEGLIGIBLE VEGETATIVE GROWTH AT THIS TIME AS THE SITE WAS PREVIOUSLY GRADED AND RE-SEEDED OR USED AS A BUILDERS' STOCKPILE LOCATION. AREAS PREVIOUSLY GRADED HAS BEEN RE-SEEDED WITH THE APPROVED COUNTY SEED MIX.
- MATERIAL STORAGE, TOPSOIL STOCKPILES(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.
- THERE IS NO CONCRETE BATCH PLANT ASSOCIATED WITH THIS PROJECT.
- NO SLOPES GREATER THAN 3:1 ARE EXPECTED ON THIS SITE. SLOPES GREATER THAN 3:1 REQUIRE EROSION CONTROL BLANKET.
- MIRIFI FABRIC TO BE PLACED BELOW ALL RIP-RAP.



**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)

No.	1	2	3	4	Revisions	Date	Appr.
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444							
MERIDIAN RANCH							
ROLLING HILLS RANCH NORTH FILING 2 AT MERIDIAN RANCH GRADING/EROSION CONTROL PLAN							
GRADING INDEX SHEET							
Scale	AS SHOWN	Drawn by	LOG	Checked by	TAK	Date	NOVEMBER 2024
	25	of	33				



INDEX MAP
N.T.S.

LEGEND

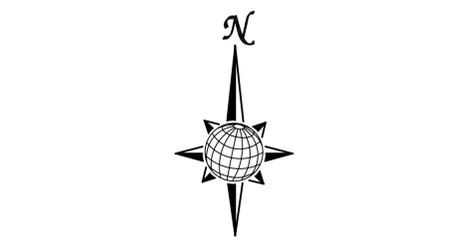
SYMBOL	ACRONYM	DESCRIPTION
—	RS	ROCK SOCK (INTERIM) PER DETAIL SHEET 33
—	EX.	EX. EROSION WATTLES (UNLESS OTHERWISE NOTED) PER DETAIL SHEET 33
—	EX.	EX. EROSION CONTROL BLANKET (UNLESS OTHERWISE NOTED) PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
—		RUNOFF REDUCTION AREA
—	RCP	REINFORCED CONCRETE PIPE
—	SF	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
—	VTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
—	IP	INLET PROTECTION PER DETAIL SHEET 33
—		LIMITS OF GRADING/DISTURBANCE
—		EXISTING CONTOUR (10')
—		EXISTING CONTOUR (2')
—		PROPOSED CONTOUR (10')
—		PROPOSED CONTOUR (2')
—		CONSTRUCTION BOUNDARY
—		FLOW DIRECTION
—		GRADE
A		LOT GRADE TYPE
75		LOT NUMBER

NOTE:
ALL CONTOURS SHOWN WITHIN THE PLAN SET ARE TO FINISHED SURFACE. ALL STREET SECTIONS ARE TO BE GRADED TO ROUGH SUB-GRADE AS SHOWN IN THEIR RESPECTIVE TYPICAL STREET SECTION SHOWN ON SHEET 32.

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

SEE SHEET 29

SEE SHEET 27

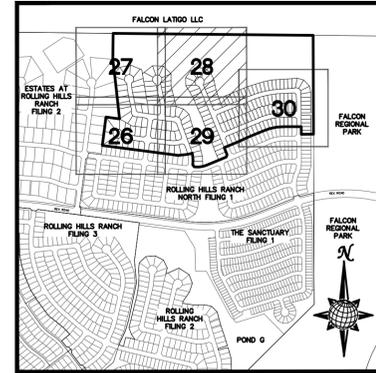


GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

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)

TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444		MERIDIAN RANCH		ROLLING HILLS RANCH NORTH FILING 2 AT MERIDIAN RANCH GRADING/EROSION CONTROL PLAN	
Drawn by	LOG	Checked by	TAK	Date	NOVEMBER 2024
Scale	AS SHOWN	26 of	33	PLAN SHEET	

FALCON LATGO LLC
SCH. NO 420000345



INDEX MAP

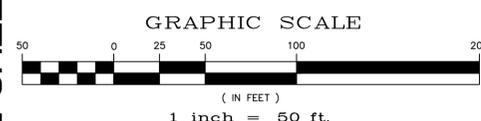
N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
—	RS	ROCK SOCK (INTERIM) PER DETAIL SHEET 33
---	EX	EX. EROSION WATTLES (UNLESS OTHERWISE NOTED) PER DETAIL SHEET 33
[Hatched Box]	OR	EX. EROSION CONTROL BLANKET (UNLESS OTHERWISE NOTED) PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
[Dashed Box]		RUNOFF REDUCTION AREA
[Thick Line]	RCP	REINFORCED CONCRETE PIPE
[Dashed Circle]	SF	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
[Dotted Box]	VTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
[Circle with IP]	IP	INLET PROTECTION PER DETAIL SHEET 33
[Dashed Line]		LIMITS OF GRADING/DISTURBANCE
[Dashed Line]		EXISTING CONTOUR (10')
[Dashed Line]		EXISTING CONTOUR (2')
[Dashed Line]		PROPOSED CONTOUR (10')
[Dashed Line]		PROPOSED CONTOUR (2')
[Dashed Line]		CONSTRUCTION BOUNDARY
[Arrow]		FLOW DIRECTION
[Number]		GRADE
[Letter]		LOT GRADE TYPE
[Number]		LOT NUMBER

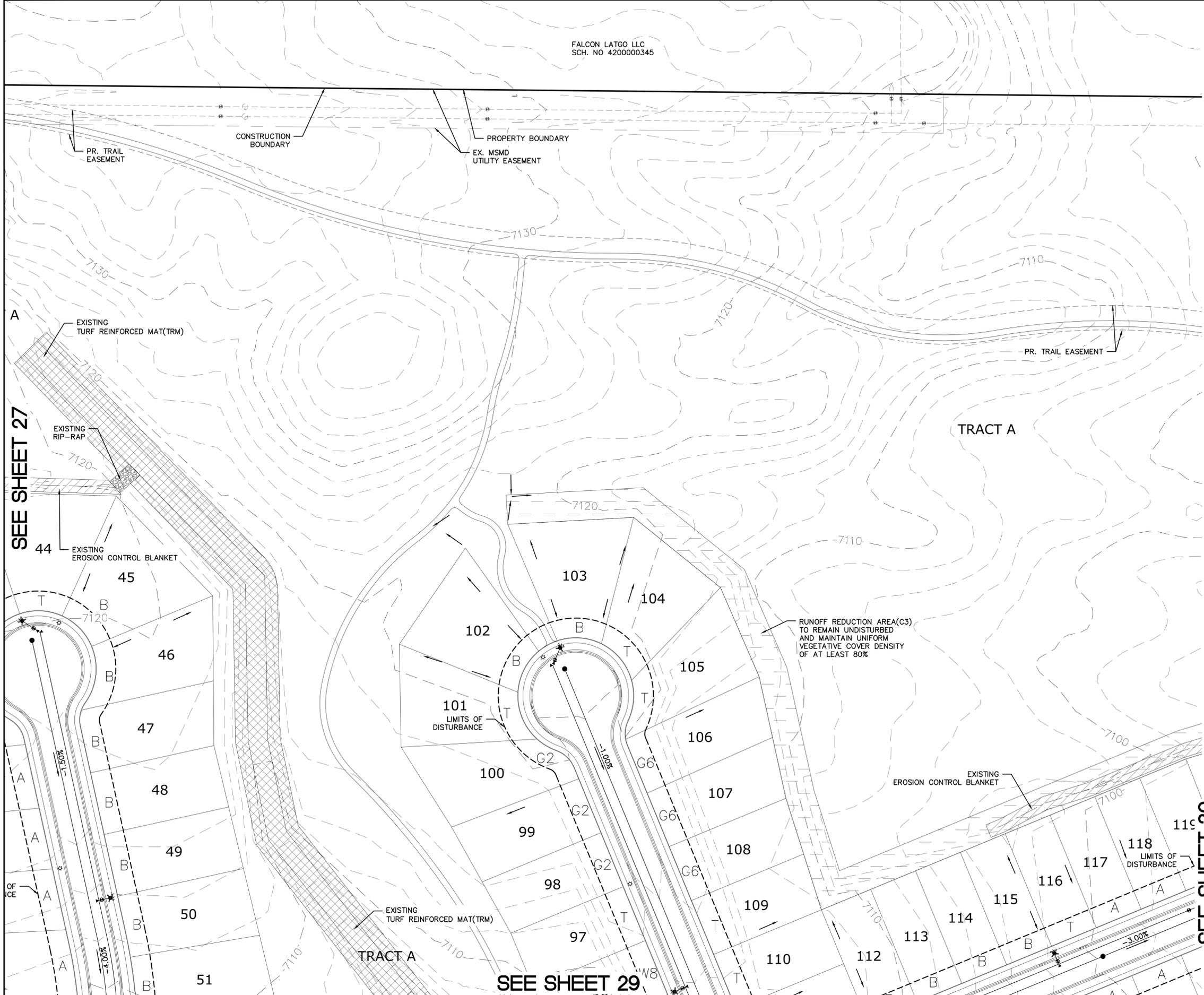
NOTE:
ALL CONTOURS SHOWN WITHIN THE PLAN SET ARE TO FINISHED SURFACE. ALL STREET SECTIONS ARE TO BE GRADED TO ROUGH SUB-GRADE AS SHOWN IN THEIR RESPECTIVE TYPICAL STREET SECTION SHOWN ON SHEET 32.

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



BEFORE YOU DIG 811
TWO WORKING DAYS
OR
CALL 811
OR
UTILTY NOTIFICATION CENTER OF COLORADO
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1	2	3	4	No.	Revisions
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444					Date
MERIDIAN RANCH					Date
ROLLING HILLS RANCH NORTH FILING 2 AT MERIDIAN RANCH GRADING/EROSION CONTROL PLAN					PLAN SHEET
Drawn by	LOG	Checked by	TAK	Date	NOVEMBER 2024
Scale	AS SHOWN	28 of 33			
					Date
					Appr.

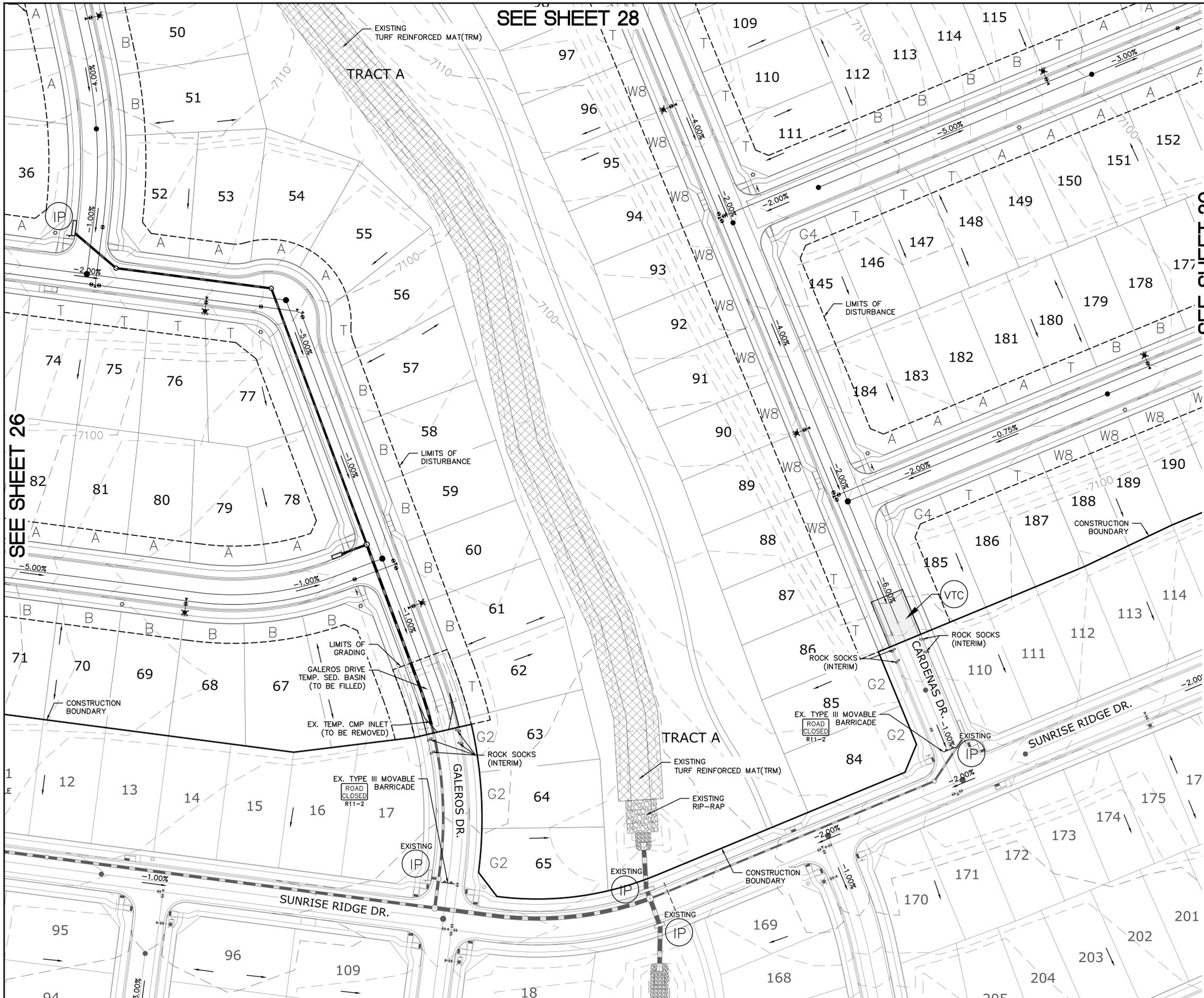


SEE SHEET 27

SEE SHEET 30

SEE SHEET 29

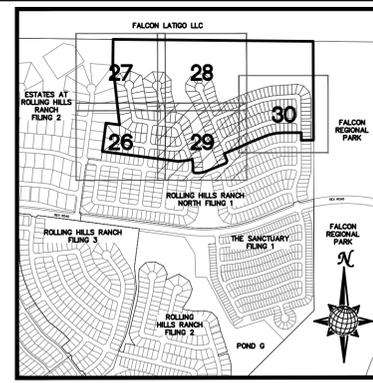
S:\OneDrive\Civil\Proj\Rolling Hills Ranch North Filing 2\DWG\PLAN SHEETS\Improvement Plans\04-RHRN2.dwg, 10/30/2024 11:56:05 AM



SEE SHEET 26

SEE SHEET 28

SEE SHEET 30



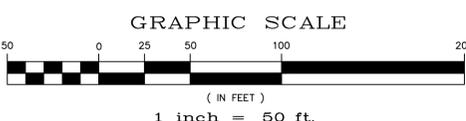
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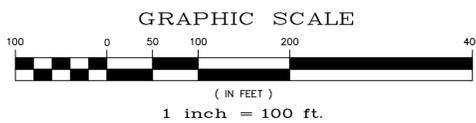
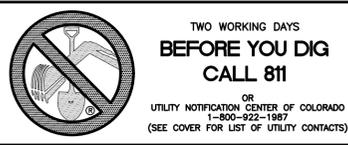


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				Date	Appr.

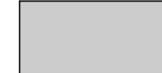


LEGEND:

AREAS OF CUT



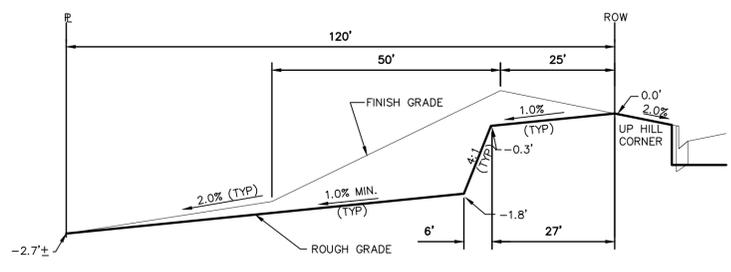
AREAS OF FILL



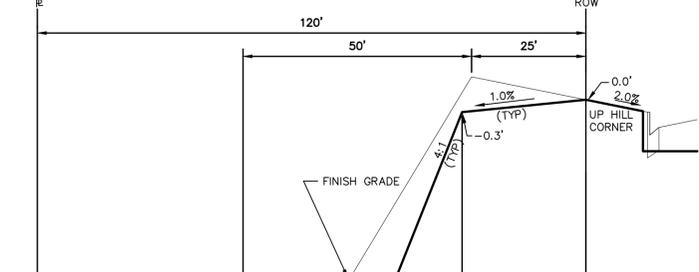
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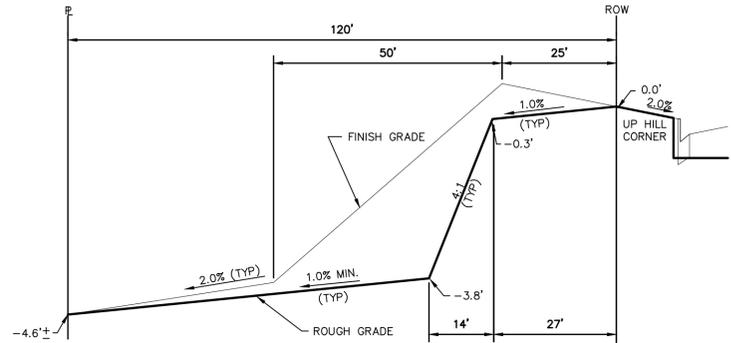
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Drawn by	LOG	Checked by	TAK	Date	NOVEMBER 2024
ROLLING HILLS RANCH NORTH FILING 2 AT MERIDIAN RANCH GRADING-EROSION CONTROL PLAN			CUT-FILL SHEET		
MERIDIAN RANCH					
TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444					
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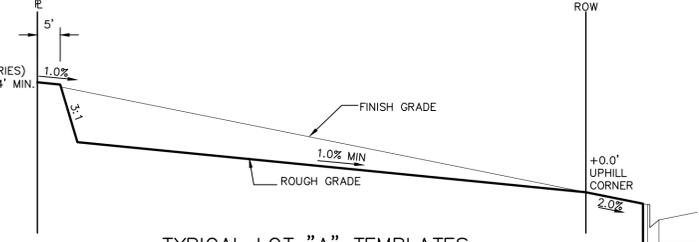
TYPICAL LOT "G2" TEMPLATES
NTS



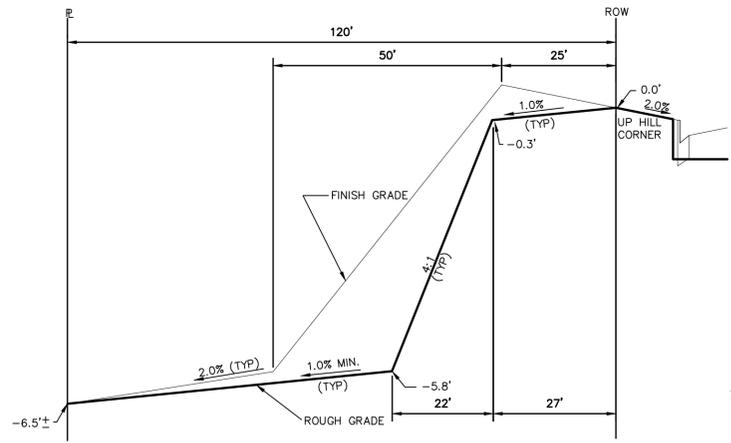
TYPICAL LOT "W8" TEMPLATES
NTS



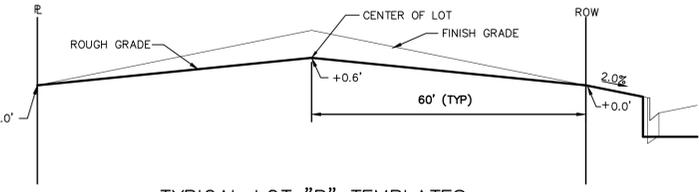
TYPICAL LOT "G4" TEMPLATES
NTS



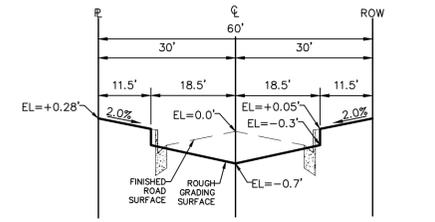
TYPICAL LOT "A" TEMPLATES
NTS



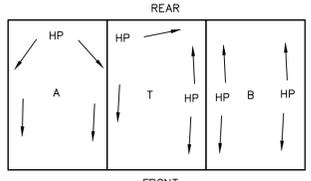
TYPICAL LOT "G6" TEMPLATES
NTS



TYPICAL LOT "B" TEMPLATES
NTS



TYPICAL RESIDENTIAL STREET SECTION
60' ROW
NTS



TYPICAL DRAINAGE PATTERN
NTS

NOTE: "T" IS A TRANSITION BETWEEN LOT TEMPLATES

STEPS FOR CONSTRUCTION

THE ANTICIPATED START FOR THIS PROJECT IS JUNE 2025 WITH AN ANTICIPATED COMPLETION DATE OF NOVEMBER 2026. 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, FILTREX 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:

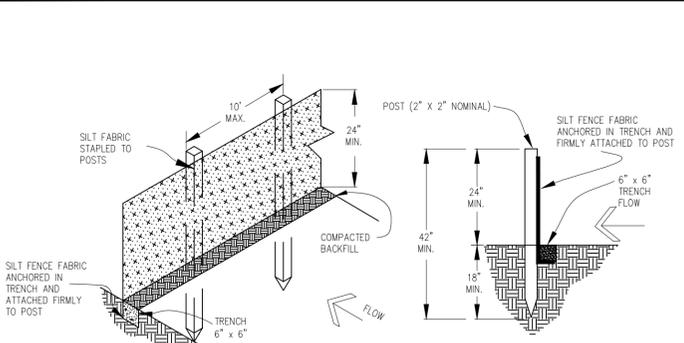
GRASS	VARIETY	AMOUNT IN PLS LBS. PER ACRE
SIDEOTS GRAMA	EL RENO	3.0
WESTERN WHEATGRASS	BARTON	2.5
SLENDER WHEATGRASS	NATIVE	2.0
LITTLE BLUESTERN	PASTURA	2.0
SAND DROPSEED	NATIVE	0.5
SWITCH GRASS	NEBRASKA	3.0
WEEPING LOVE GRASS	MORPHA	1.0

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.

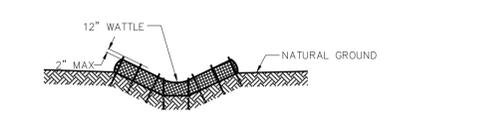
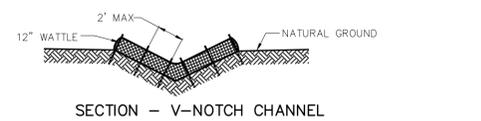
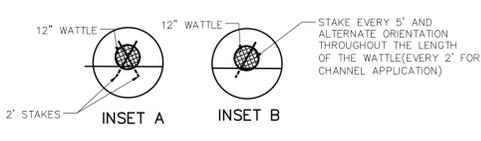
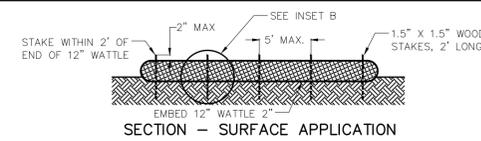
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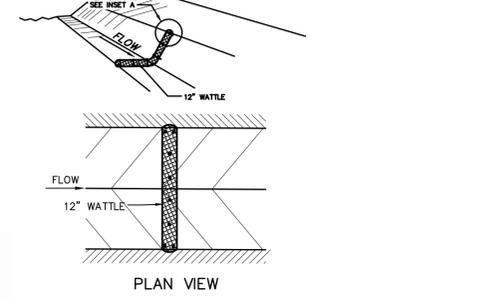


SILT FENCE
NTS
SILT FENCE NOTES

- INSTALLATION REQUIREMENTS**
- SILT FENCES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
 - WHEN JOINTS ARE NECESSARY, SILT FENCE GEOTEXTILE SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST AND SECURELY SEALED.
 - 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.
 - 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.
 - 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.
 - 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.
 - 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**
- 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.
 - SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE WHEN IT ACCUMULATES TO HALF THE EXPOSED GEOTEXTILE HEIGHT.
 - SILT FENCES SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.



SECTION - TRAPAZOIDAL CHANNEL



NOTES:

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

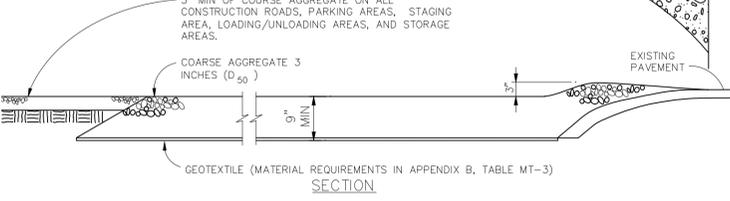
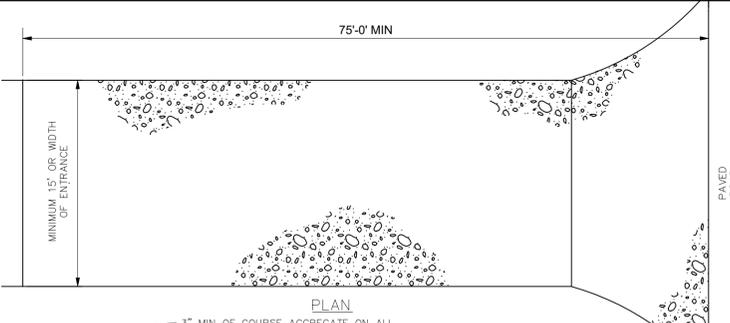
ONLY INSTALL 12" WATTLES TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES OR AS DIRECTED.

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.

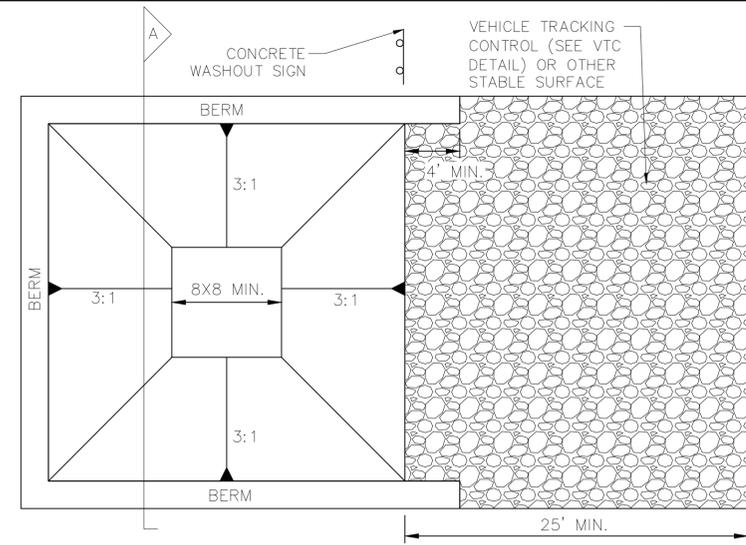
WATTLES MAY ALSO BE USED ACROSS LONG SLOPES TO REDUCE EROSION AND SEDIMENT VOLUME.

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

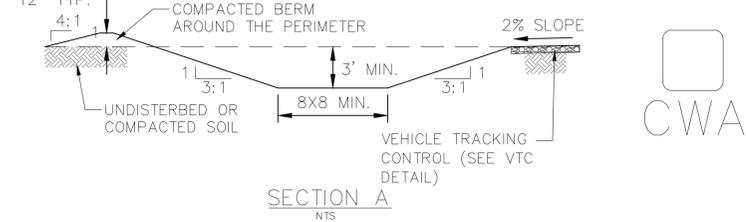


VEHICLE TRACKING
NTS
VEHICLE TRACKING NOTES

- INSTALLATION REQUIREMENTS**
- ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION BEGINNING.
 - 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.
 - AREAS TO BE STABILIZED ARE TO BE PROPERLY GRADED AND COMPACTED PRIOR TO LAYING DOWN GEOTEXTILE AND STONE.
 - CONSTRUCTION ROADS, PARKING AREAS, LOADING/UNLOADING ZONES, STORAGE AREAS, AND STAGING AREAS ARE TO BE STABILIZED.
 - 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**
- REGULAR INSPECTIONS ARE TO BE MADE OF ALL STABILIZED AREAS, ESPECIALLY AFTER STORM EVENTS.
 - STONES ARE TO BE REAPPLIED PERIODICALLY AND WHEN REPAIR IS NECESSARY.
 - SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED DAILY BY SHOVELING OR SWEEPING. SEDIMENT IS NOT TO BE WASHED DOWN STORM SEWER DRAINS.
 - STORM SEWER INLET PROTECTION IS TO BE IN PLACE, INSPECTED, AND CLEANED IF NECESSARY.
 - OTHER ASSOCIATED SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED TO ENSURE GOOD WORKING CONDITION.

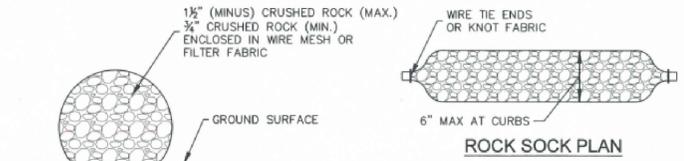


CONCRETE WASHOUT AREA PLAN
NTS



SECTION A
NTS

- CWA INSTALLATION NOTES:**
- SEE PLAN VIEW FOR CWA INSTALLATION LOCATION.
 - 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 (18 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE SHOULD BE USED.
 - THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
 - 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.
 - BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE A MINIMUM HEIGHT OF 1'.
 - VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
 - 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.
 - USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.
- CWA MAINTENANCE NOTES:**
- 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.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - 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'.
 - 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.
 - THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
 - 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.



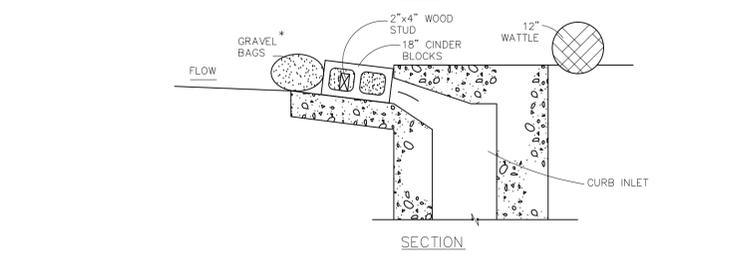
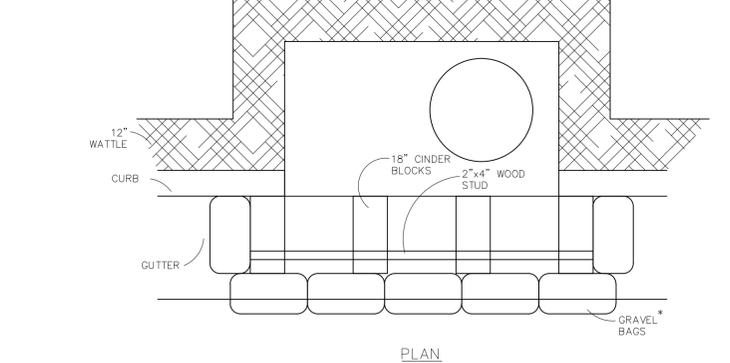
ROCK SOCK OVERLAP

GRADATION TABLE

SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES
No. 4	
2"	100
1 1/2"	90-100
1"	20-55
3/4"	0-15
3/8"	0-5

MATCHES SPECIFICATIONS FOR No. 4 COARSE AGGREGATE FOR CONCRETE PER AASHTO M-43. ALL ROCK SHALL BE FRACTURED FACE, ALL SIDES

- INSTALLATION NOTES**
- CRUSHED ROCK SHALL BE BETWEEN MAX. 1 1/2" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET AND MIN. 3/4" CRUSHED ROCK.
 - WIRE MESH SHALL HAVE OPENINGS SMALLER THAN THE SMALLEST SIZE ROCK.
 - WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.
- MAINTENANCE NOTES**
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED BEYOND REPAIR.
 - ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN THE DEPTH REACHES 1/2 OF THE HEIGHT OF THE ROCK SOCK.
 - ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL DISTURBED AREA IS STABILIZED.
 - PERMANENTLY STABILIZE AREA AFTER ROCK SOCKS HAVE BEEN REMOVED.



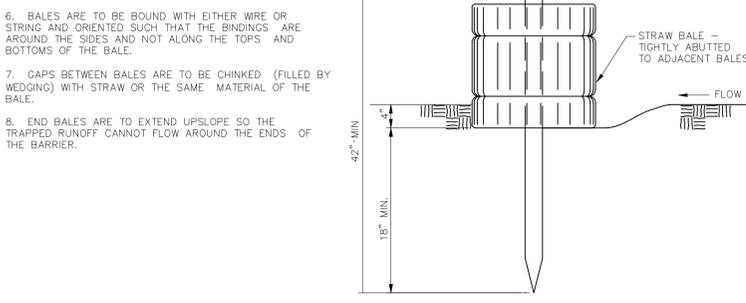
MODIFIED BLOCK AND GRAVEL BAG* CURB INLET PROTECTION
NTS

BLOCK AND GRAVEL BAG* CURB INLET PROTECTION NOTES

- INSTALLATION REQUIREMENTS**
- INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET.
 - CONCRETE BLOCKS ARE TO BE LAID AT 2" SPACING ON THEIR SIDES WITH THE OPEN ENDS OF THE BLOCK FACING EACH OTHER.
 - IF MORE THAN ONE 2X4 IS REQUIRED, THEY NEED TO OVERLAP BY A MINIMUM OF 2'
 - GRAVEL BAGS ARE TO BE PLACED AROUND THE CONCRETE BLOCKS AND 2X4 TO CLOSELY ABUTTING ONE ANOTHER SO THERE ARE NO GAPS.
 - GRAVEL BAGS ARE TO CONTAIN WASHED SAND OR GRAVEL APPROXIMATELY 3/4 INCH IN DIAMETER.
 - BAGS ARE TO BE MADE OF 1/4" INCH WIRE MESH (USED WITH GRAVEL ONLY) OR GEOTEXTILE.
- MAINTENANCE REQUIREMENTS**
- CONTRACTOR SHALL INSPECT INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
 - DAMAGED OR INEFFECTIVE INLET PROTECTION SHALL PROMPTLY BE REPAIRED OR REPLACED.
 - SEDIMENT SHALL BE REMOVED WHEN SEDIMENT HAS ACCUMULATED TO APPROXIMATELY 1/2 THE DESIGN DEPTH OF THE TRAP.
 - INLET PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED WITHIN THE DRAINAGE AREA AS APPROVED BY THE CITY.

STRAW BALE BARRIER NOTES

- INSTALLATION REQUIREMENTS**
- STRAW BALE BARRIERS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
 - BALES SHALL CONSIST OF APPROXIMATELY 5 CUBIC FEET OF CERTIFIED WEED FREE HAY OR STRAW AND WEIGH NOT LESS THAN 35 POUNDS.
 - BALES ARE TO BE PLACED IN A SINGLE ROW WITH THE END OF THE BALES TIGHTLY ABUTTING ONE ANOTHER.
 - 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.
 - STAKES ARE TO BE A MINIMUM OF 42 INCHES LONG. METAL STAKES SHALL BE STANDARD "I" 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.
 - 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.
 - GAPS BETWEEN BALES ARE TO BE CHINKED (FILLED BY WEDGING) WITH STRAW OR THE SAME MATERIAL OF THE BALE.
 - END BALES ARE TO EXTEND UPSLOPE SO THE TRAPPED RUNOFF CANNOT FLOW AROUND THE ENDS OF THE BARRIER.
- MAINTENANCE REQUIREMENTS**
- CONTRACTOR SHALL INSPECT STRAW BALE BARRIERS IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
 - DAMAGED OR INEFFECTIVE BARRIERS SHALL PROMPTLY BE REPAIRED, REPLACING BALES IF NECESSARY, AND UNENTRENCHED BALES NEED TO BE REPAIRED WITH COMPACTED BACKFILL MATERIAL.
 - SEDIMENT SHALL BE REMOVED FROM BEHIND STRAW BALE BARRIERS WHEN IT ACCUMULATES TO APPROXIMATELY 1/2 THE HEIGHT OF THE BARRIER.
 - STRAW BALE BARRIERS SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.



STRAW BALE BARRIER
NTS

No.	1	2	3	4
Revisions				
Date				
Appr.				
<p>TECH CONTRACTORS 11910 TOURMALINE DR. #130 FALCON, CO 80831 TELEPHONE: 719.495.7444</p>				
<p>MERIDIAN RANCH</p>				
<p>ROLLING HILLS RANCH NORTH FILING 2 AT MERIDIAN RANCH GRADING/EROSION CONTROL PLAN</p>				
Scale	AS SHOWN	33 of 33	NOVEMBER 2024	
Drawn by	LOG	Checked by	TAK	Date
<p>GRADING DETAIL SHEET</p>				
<p>PROFESSIONAL ENGINEER 1429</p>				

STORMWATER ENTERPRISE

ROCK SOCK

APPROVED: *[Signature]*

ISSUED: 10/7/19

REVISED: 8/19/2020

DRAWING NO. 900-RS

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)

* 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.