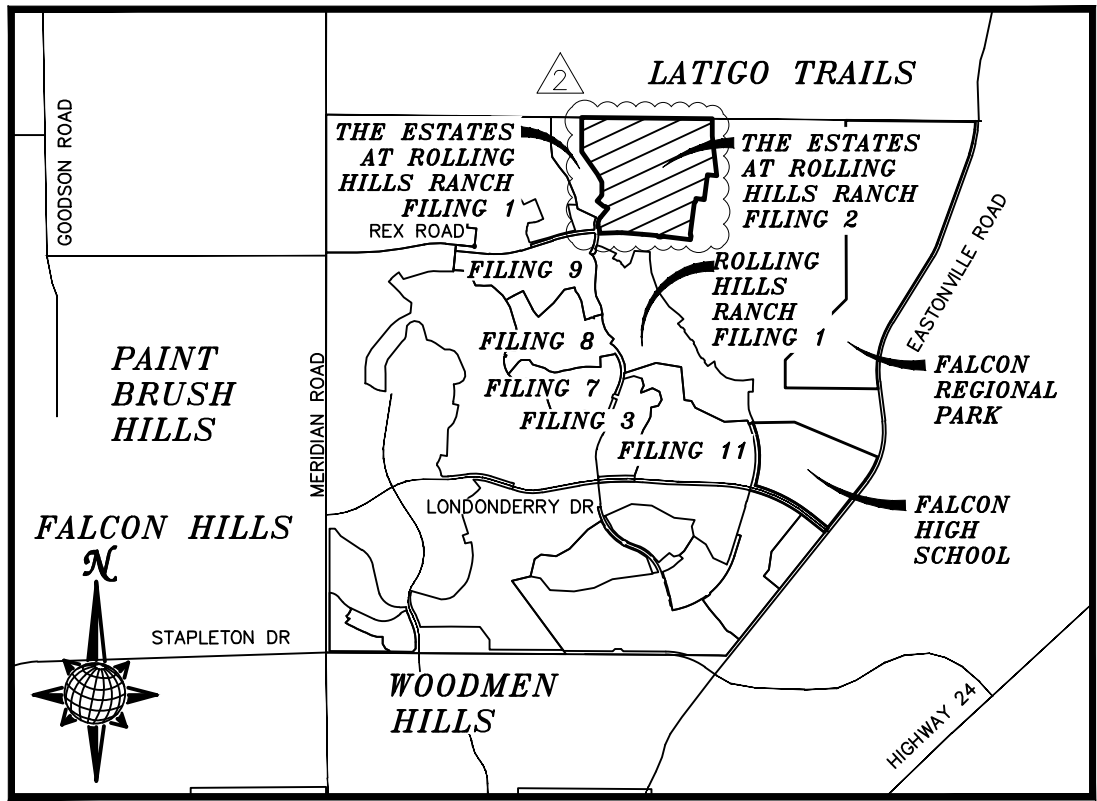


CONSTRUCTION DRAWINGS
FOR
THE ESTATES AT
ROLLING HILLS RANCH FILING 2
IMPROVEMENT PLANS
PREPARED FOR GTL, INC. DBA GTL DEVELOPMENT, INC.

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



VICINITY MAP
N.T.S.

UTILITY CONTACTS:

WATER — MERIDIAN SERVICE METROPOLITAN DISTRICT
POC: KEVIN FACKERELL
(719)–495–6567

SANITARY SEWER — MERIDIAN SERVICE METROPOLITAN DISTRICT
POC: BRADEN McCORRY
(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 AND MERIDIAN SERVICE METROPOLITAN DISTRICT BEING THE OWNERS OF THE FOLLOWING DESCRIBED TRACTS OF LAND:

A PARCEL OF LAND LOCATED IN A PORTIONS OF SECTION 19 AND 20,
IN TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEASTERN MOST CORNER OF TRACT B OF THE ESTATES AT ROLLING HILLS RANCH FILING NO. 1, RECORDED WITH RECEPTION NO. 221714711 IN THE RECORDS OF EL PASO COUNTY, POINT BEING ON THE NORTHEAST 1/4 OF SAID SECTION 19;

1. THENCE S89°18'07"E ALONG SAID SECTION 19 A DISTANCE OF 40.70 FEET TO THE NORTHWEST CORNER OF SAID SECTION 20;
2. THENCE S89°25'43"E, ALONG THE NORTHERN LINE OF SAID SECTION 20 A DISTANCE OF 2532.88 FEET;
3. THENCE S00°34'17"W A DISTANCE OF 340.00 FEET;
4. THENCE S06°47'53"E A DISTANCE OF 290.00 FEET;
5. THENCE S06°14'24"E A DISTANCE OF 495.03 FEET;
6. THENCE N82°33'58"W A DISTANCE OF 180.00 FEET;
7. THENCE S07°26'02"W A DISTANCE OF 495.00 FEET;
8. THENCE N82°33'58"W A DISTANCE OF 168.00 FEET;
9. THENCE S07°26'02"W A DISTANCE OF 60.00 FEET;
10. THENCE S52°26'02"W A DISTANCE OF 31.11 FEET;
11. THENCE S07°26'02"W A DISTANCE OF 636.00 FEET;
12. THENCE S37°33'58"E A DISTANCE OF 31.11 FEET;
13. THENCE S07°26'02"W A DISTANCE OF 80.00 FEET TO A POINT ON THE NORTHERLY BOUNDARY OF ROLLING HILLS RANCH FILING NO. 3 AT MERIDIAN RANCH, RECORDED WITH RECEPTION NO. _____ IN THE RECORDS OF EL PASO COUNTY;

THE FOLLOWING NINE (9) COURSES ARE ON SAID BOUNDARY LINE:

14. THENCE N82°33'58"W A DISTANCE OF 518.76 FEET TO A CURVE TO THE LEFT;
15. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 7440.00 FEET, A DELTA ANGLE OF 00°18'41", AN ARC LENGTH OF 40.44 FEET, WHOSE LONG CHORD BEARS N82°43'19"W A DISTANCE OF 40.44 FEET;
16. THENCE S51°52'47"W A DISTANCE OF 31.03 FEET;
17. THENCE N83°16'41"W A DISTANCE OF 60.00 FEET;
18. THENCE N38°26'09"W A DISTANCE OF 31.03 FEET TO A NON-TANGENT CURVE TO THE LEFT;
19. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 7440.00 FEET, A DELTA ANGLE OF 02°14'02", AN ARC LENGTH OF 290.08 FEET, WHOSE LONG CHORD BEARS N84°47'44"W A DISTANCE OF 290.08 FEET;
20. THENCE N85°54'45"W A DISTANCE OF 400.64 FEET TO A CURVE TO THE LEFT;
21. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 900.00 FEET, A DELTA ANGLE OF 06°09'39", AN ARC LENGTH OF 96.77 FEET, WHOSE LONG CHORD BEARS N88°59'34"W A DISTANCE OF 96.73 FEET;
22. THENCE S87°55'36"E A DISTANCE OF 348.00 FEET TO A POINT ON THE EASTERLY BOUNDARY OF SAID THE ESTATES AT ROLLING HILLS RANCH FILING NO. 1;

THE FOLLOWING FOURTEEN (14) COURSES ARE ON SAID BOUNDARY LINE:

23. THENCE N02°04'24"W A DISTANCE OF 100.00 FEET;
24. THENCE N47°04'24"W A DISTANCE OF 31.11 FEET;
25. THENCE N02°04'24"W A DISTANCE OF 45.00 FEET TO A CURVE TO THE RIGHT;
26. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 220.00 FEET, A DELTA ANGLE OF 40°46'08", AN ARC LENGTH OF 156.54 FEET, WHOSE LONG CHORD BEARS N18°18'40"E A DISTANCE OF 153.26 FEET;
27. THENCE N38°41'44"E A DISTANCE OF 231.44 FEET;
28. THENCE N51°18'16"W A DISTANCE OF 60.00 FEET;
29. THENCE S83°41'44"W A DISTANCE OF 31.11 FEET;
30. THENCE N51°18'16"W A DISTANCE OF 170.23 FEET;
31. THENCE N38°41'44"E A DISTANCE OF 150.00 FEET;
32. THENCE N00°00'00"E A DISTANCE OF 254.85 FEET;
33. THENCE N30°02'34"W A DISTANCE OF 180.68 FEET;
34. THENCE N35°00'00"W A DISTANCE OF 540.00 FEET;
35. THENCE N00°00'00"E A DISTANCE OF 232.89 FEET;
36. THENCE N00°00'00"E A DISTANCE OF 108.00 FEET;
37. THENCE N00°00'00"E A DISTANCE OF 332.03 FEET TO THE POINT OF BEGINNING.

THE ABOVE PARCEL OF LAND CONTAINS 116.815 ACRES, MORE OR LESS.

DISTRICT ENGINEER:

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

DEVELOPERS STATEMENT:

DEVELOPERS STATEMENT:

I, THE OWNER/DEVELOPER HAVE 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.

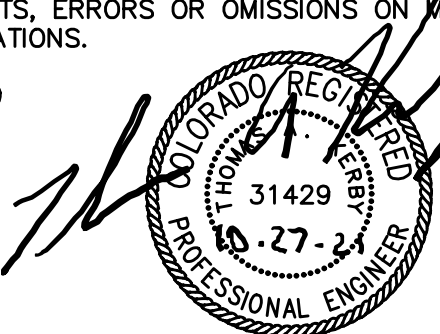
RAUL GUZMAN, VICE PRESIDENT
GTL DEVELOPMENT, INC.

12/1/2021
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



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).

WATER AND SANITARY SEWER APPROVALS:

JIM NIKKEL, GENERAL MANAGER
MERIDIAN SERVICE METROPOLITAN DISTRICT

12/1/21
DATE

BENCH MARK

1) MRR01 — 3 1/4" ALUMINUM CAP ON NO.6 REBAR LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF LONDONDERRY DRIVE AND ANGELES ROAD. LOCATED AT THE SE CORNER OF THE MERIDIAN RANCH RECREATIONAL CENTER SIGN. ELEVATION — 7098.40'

2) MRRM1 — 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'

OWNERS STATEMENT:

OWNERS STATEMENT:

I, THE OWNER/DEVELOPER HAVE 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, VICE PRESIDENT
MERIDIAN RANCH INVESTMENTS, INC.

DATE

EL PASO COUNTY:

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

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

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT 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.

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

DATE

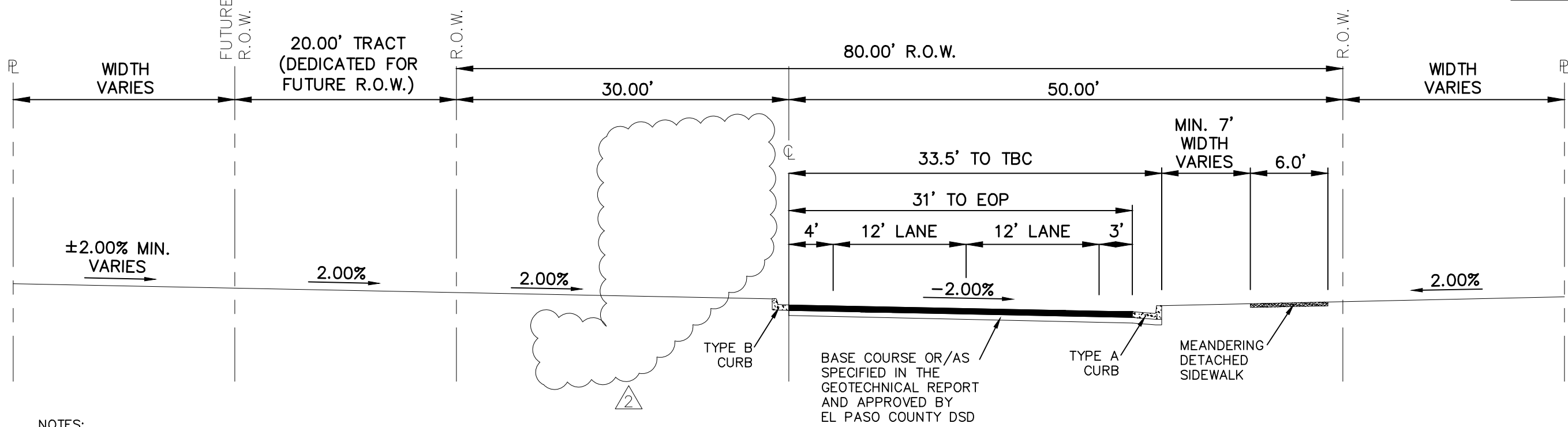
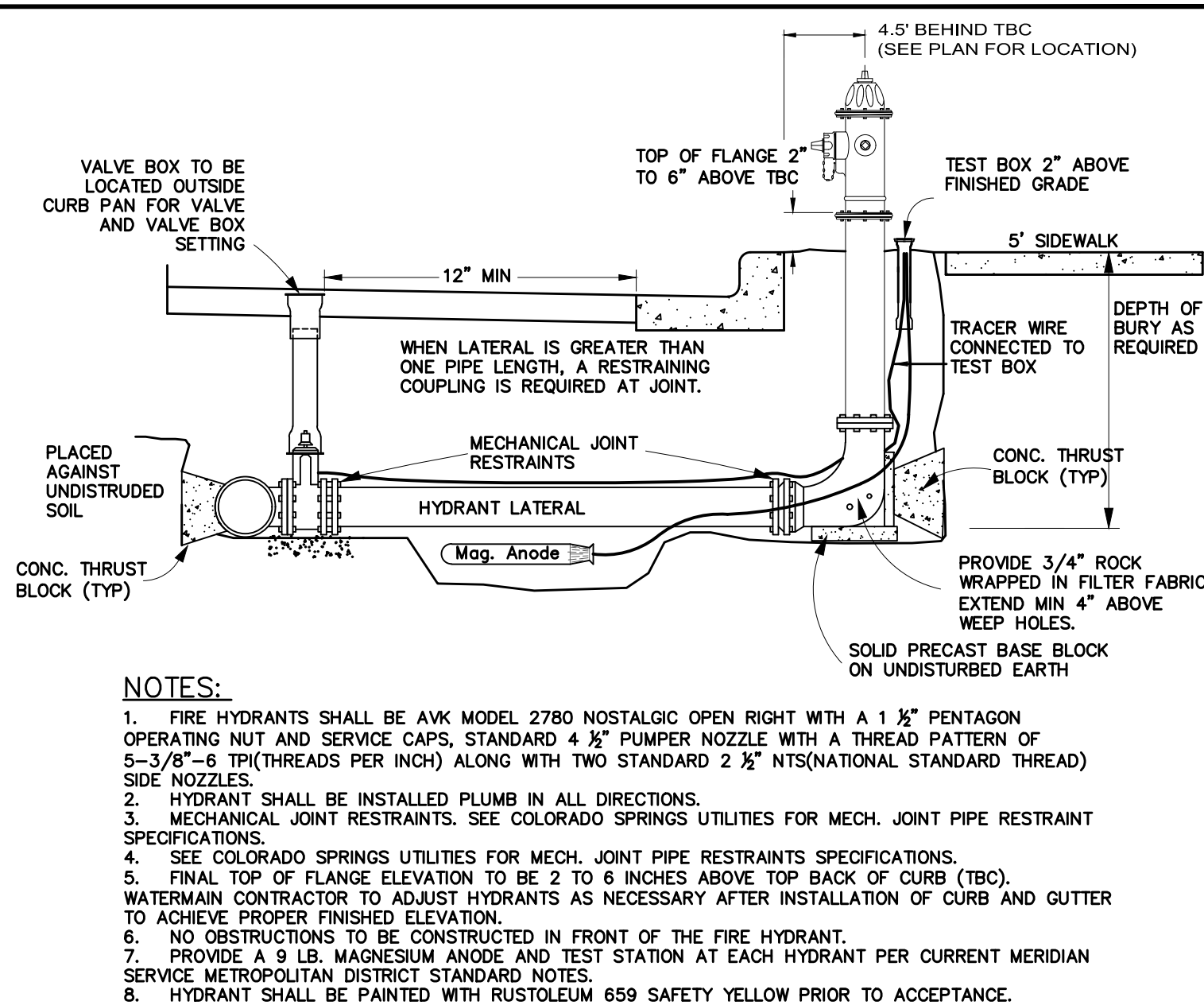
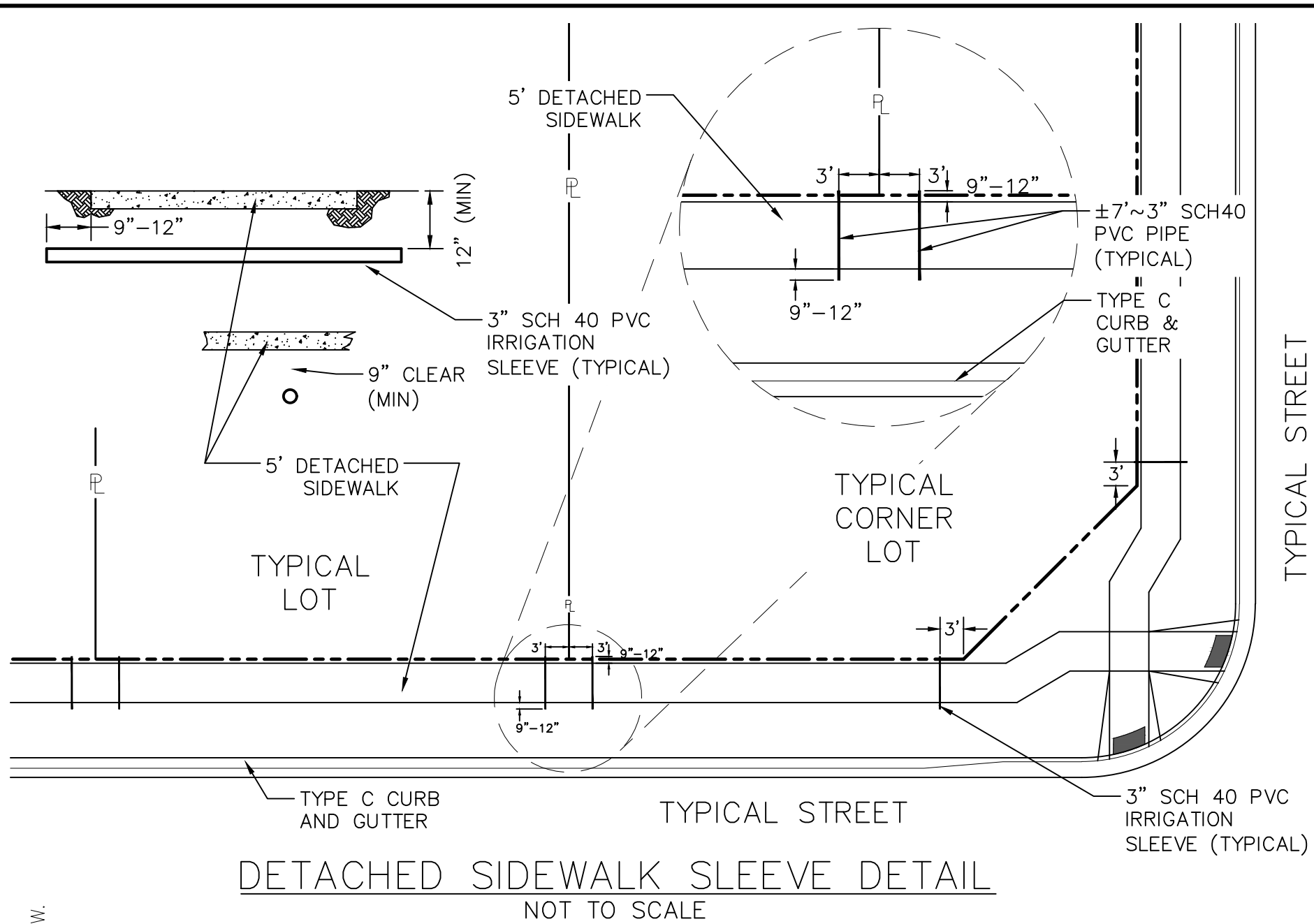
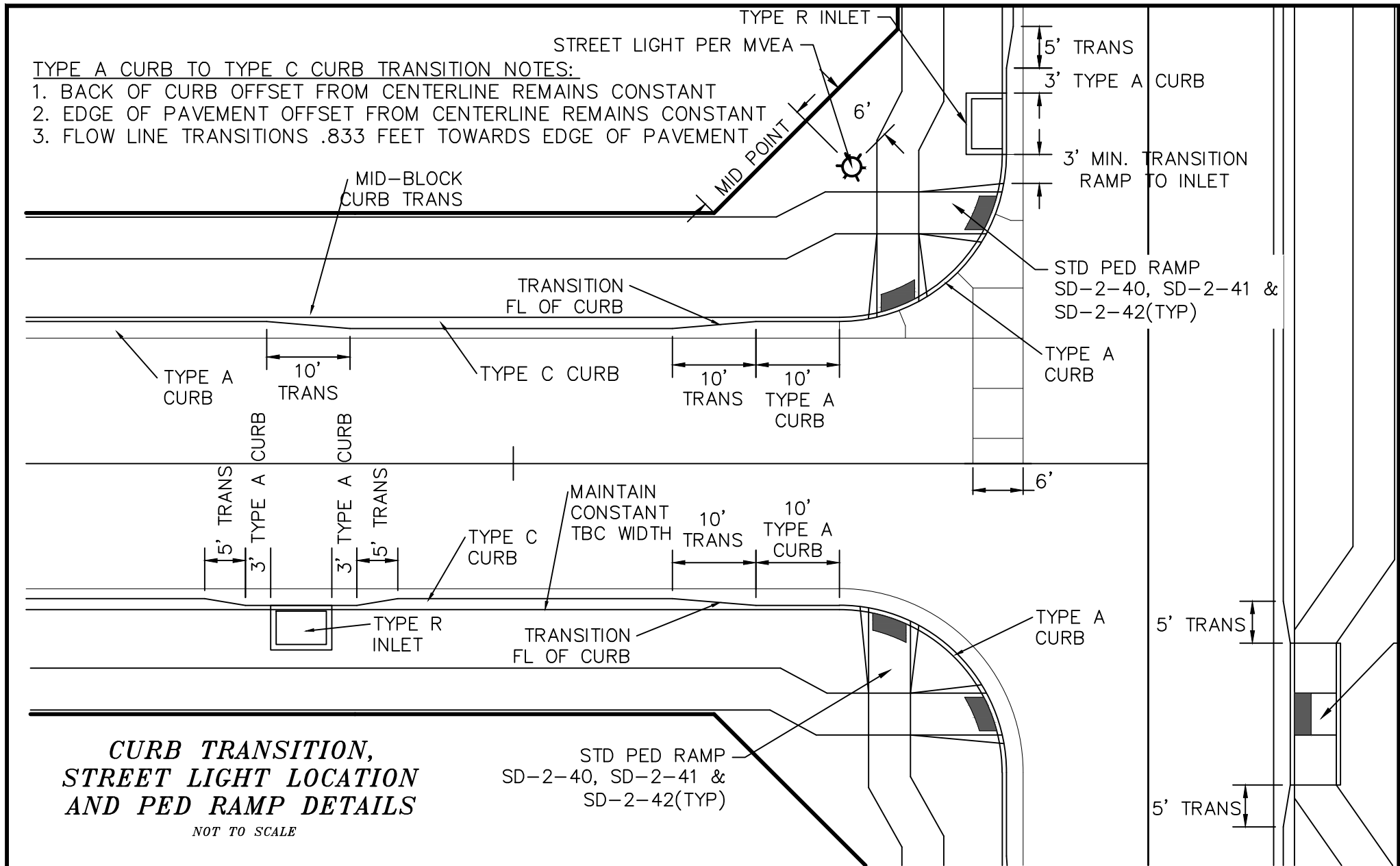
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9/10/2021	LOG	10/7/2021	
LIGHT POLES SS SERVES WATER SERVICES REX ROAD & 12" WM (S&1 12.6, 7.8, 10.1, 11.2, 14.1, 15.16, 22.2, 24.26, 27.28, 30.31, 34.35, 38.3)			
REVISE BOUNDARY, LOT LINES FOR 67-73, ADD TRACT F			
Revisions			No.

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

MERIDIAN RANCH

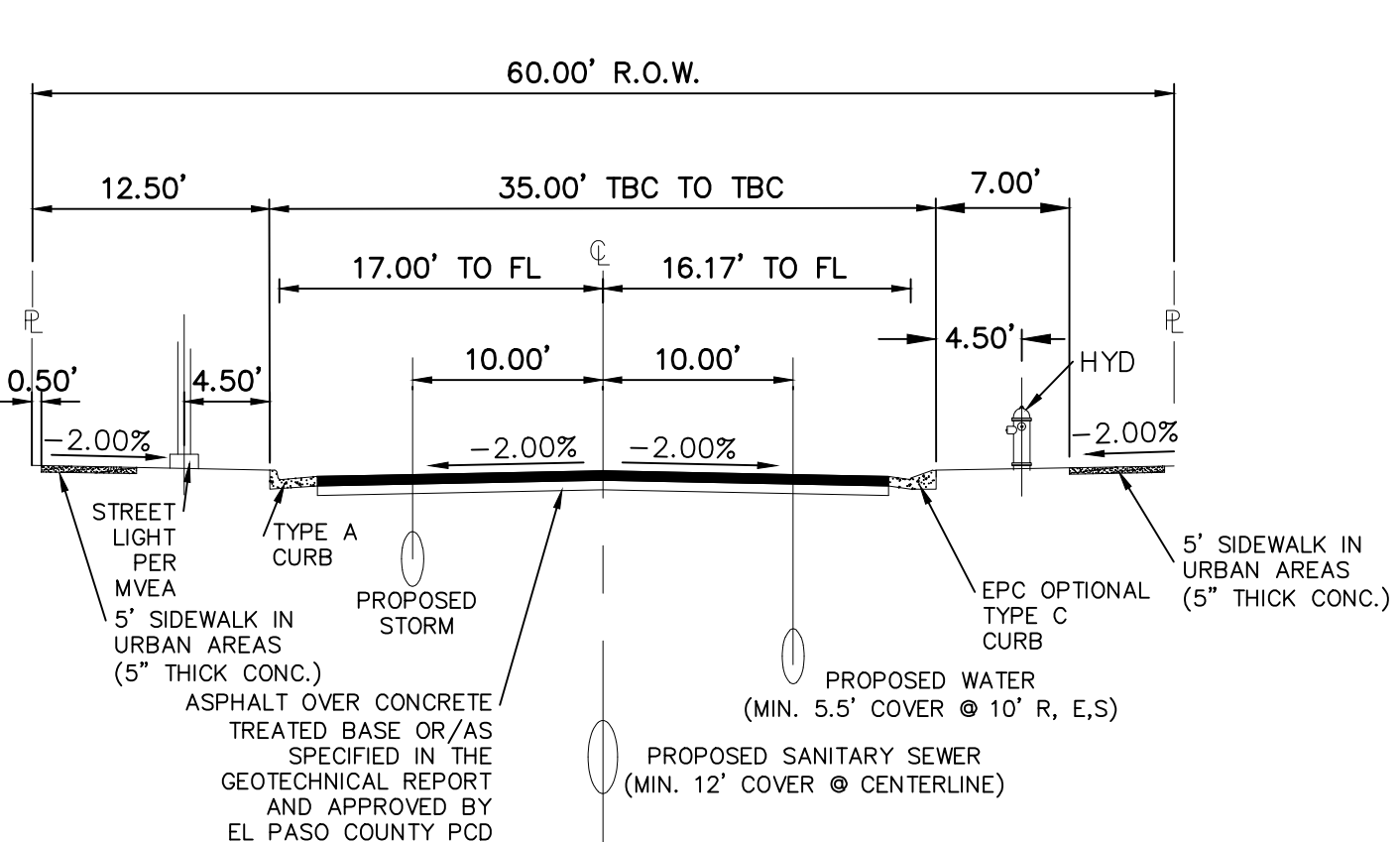
THE ESTATES AT
ROLLING HILLS RANCH FILING 2
STREET AND UTILITY PLANS
COVER SHEET

Drawn by	Loc	Checked by	TAK	Date
AS SHOWN				
1	of	44		



REX ROAD TEMP. MINOR ARTERIAL

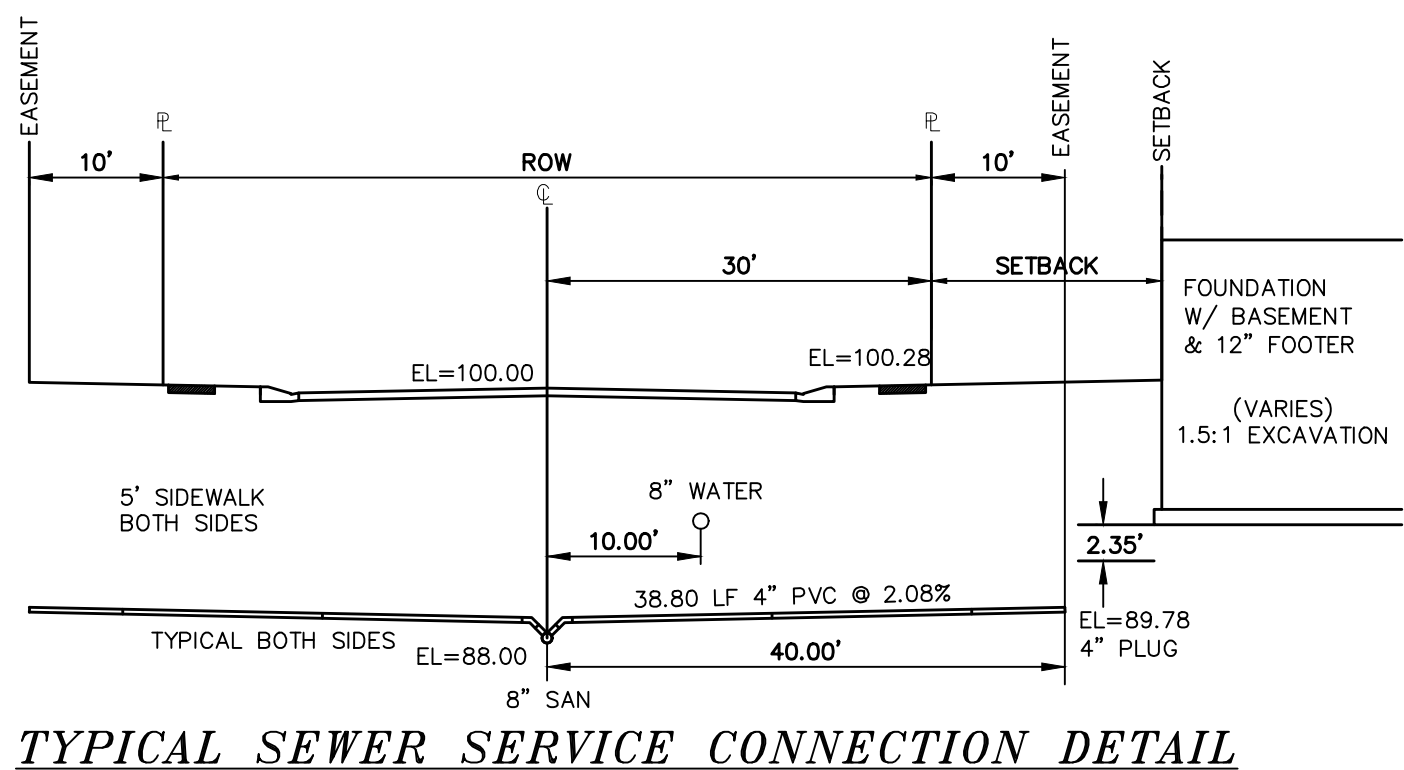
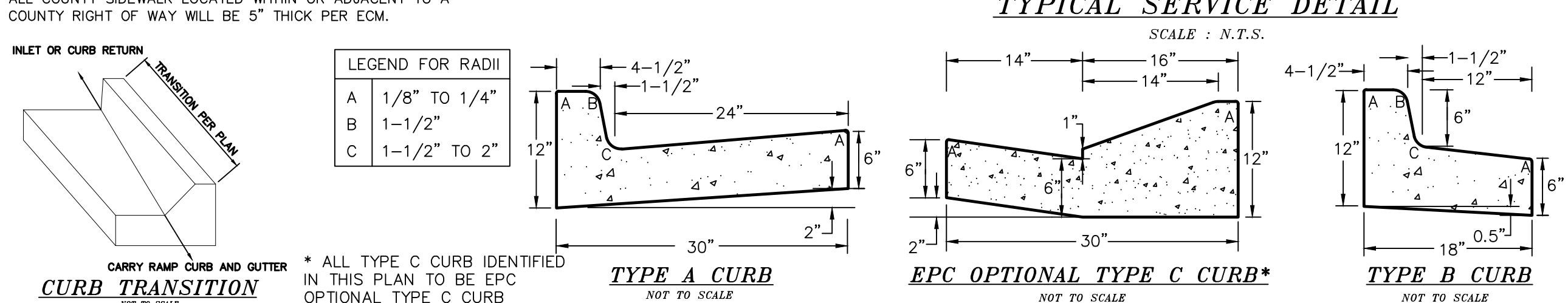
SCALE : N.T.S.



60' R.O.W. RESIDENTIAL ROAD (TYPICAL)

URBAN LOCAL &
URBAN LOCAL LOW-VOLUME

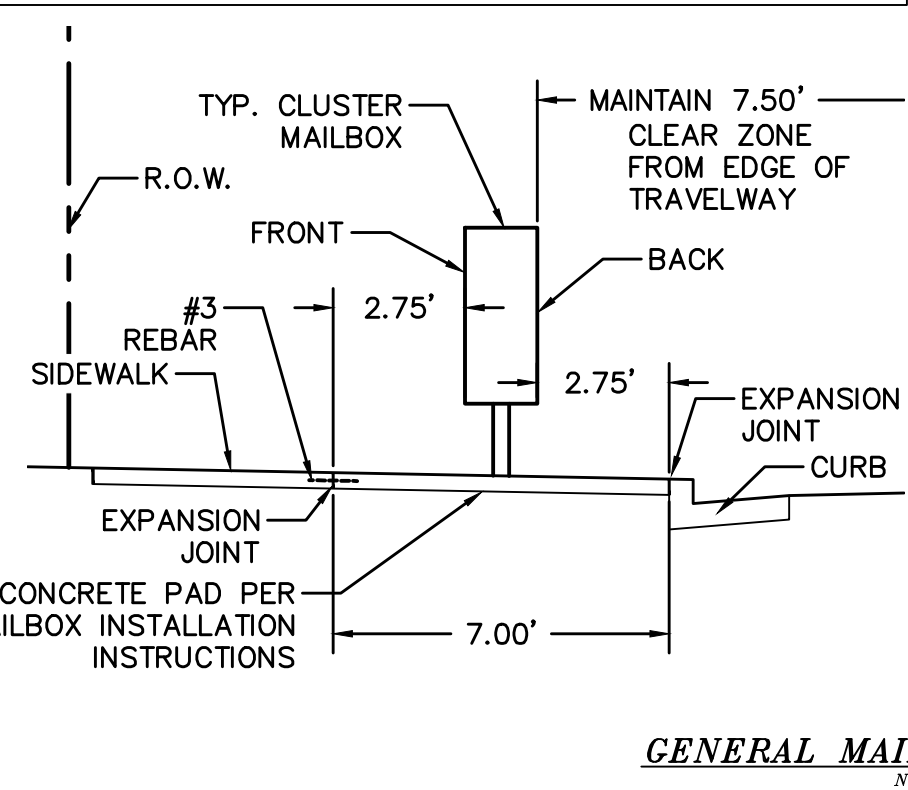
SCALE : N.T.S.



TYPICAL SEWER SERVICE CONNECTION DETAIL

SCALE : N.T.S.

PIPE	SLOPE
4" PVC SDR 35	2.08% OR 1/4" PER FOOT
4" SCH 40 PVC	1.04% OR 1/8" PER FOOT
6" PVC SDR 35	1.04% OR 1/8" PER FOOT



TYPICAL TRENCH & BEDDING DETAIL

SCALE : N.T.S.

PIPE CHART

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		
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
	STREET LIGHT	PER MOUNTAIN VIEW ELECTRIC ASSOCIATION (MVEA)
	STOP SIGN	- R1-1, 30x30 UNLESS OTHERWISE NOTED
	EXISTING CONTOUR	(10')
	EXISTING CONTOUR	(2')

Log	Log	Log	Date	Appr.	Date
9/10/2021					
10/7/2021					

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

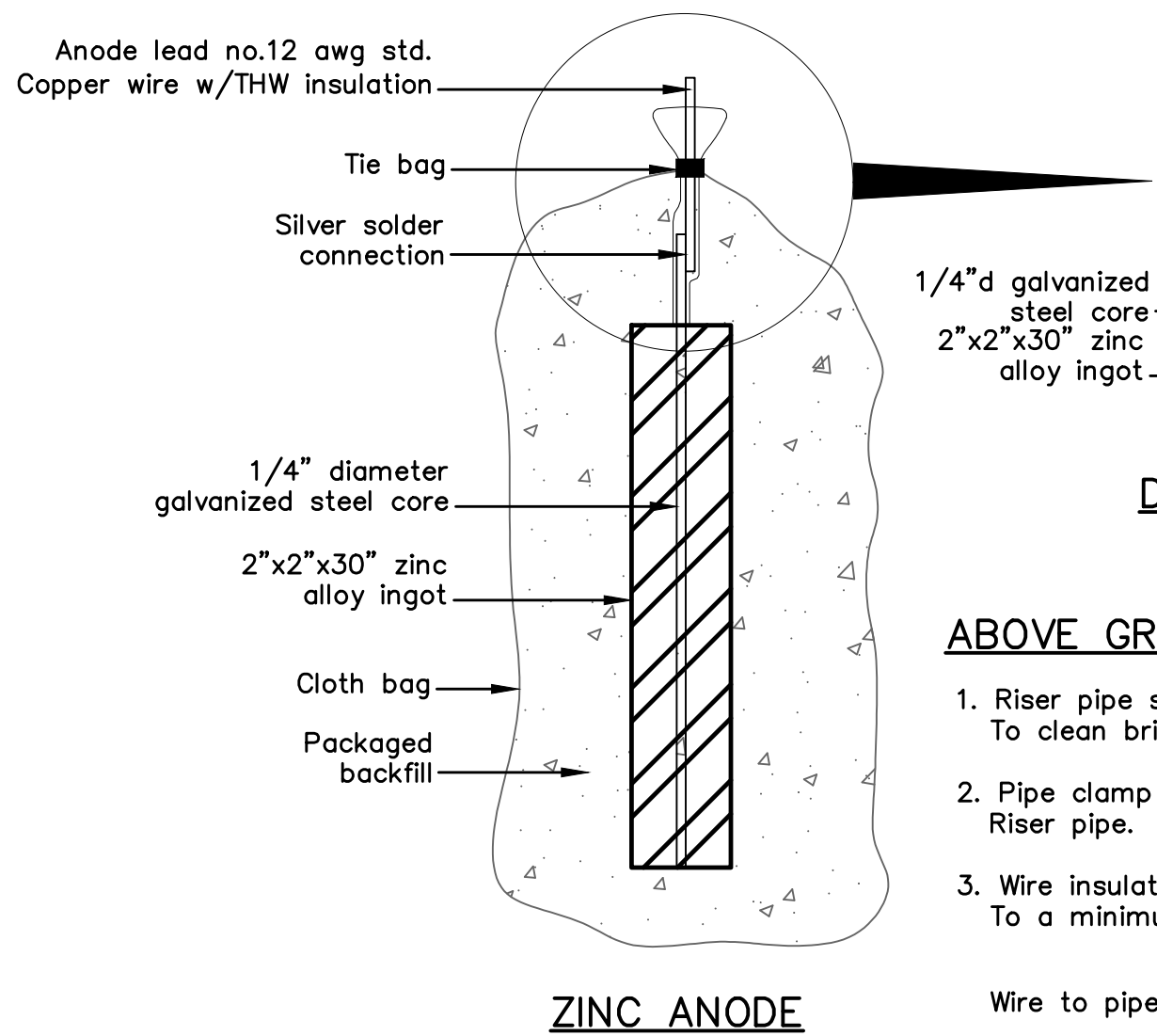
MERIDIAN RANCH

THE ESTATES AT ROLLING HILLS RANCH FILING 2
STREET AND UTILITY PLANS
DETAIL SHEET

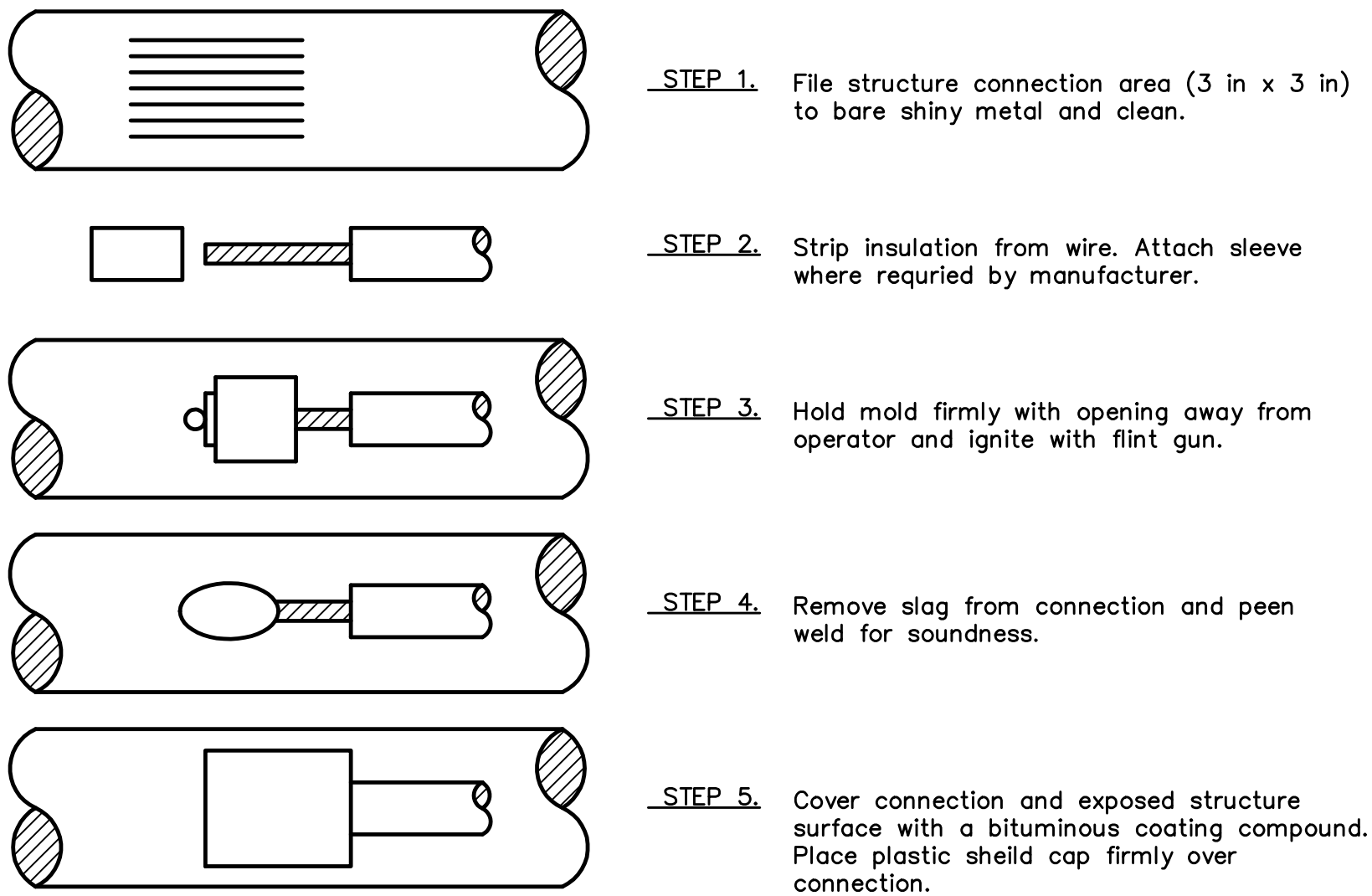
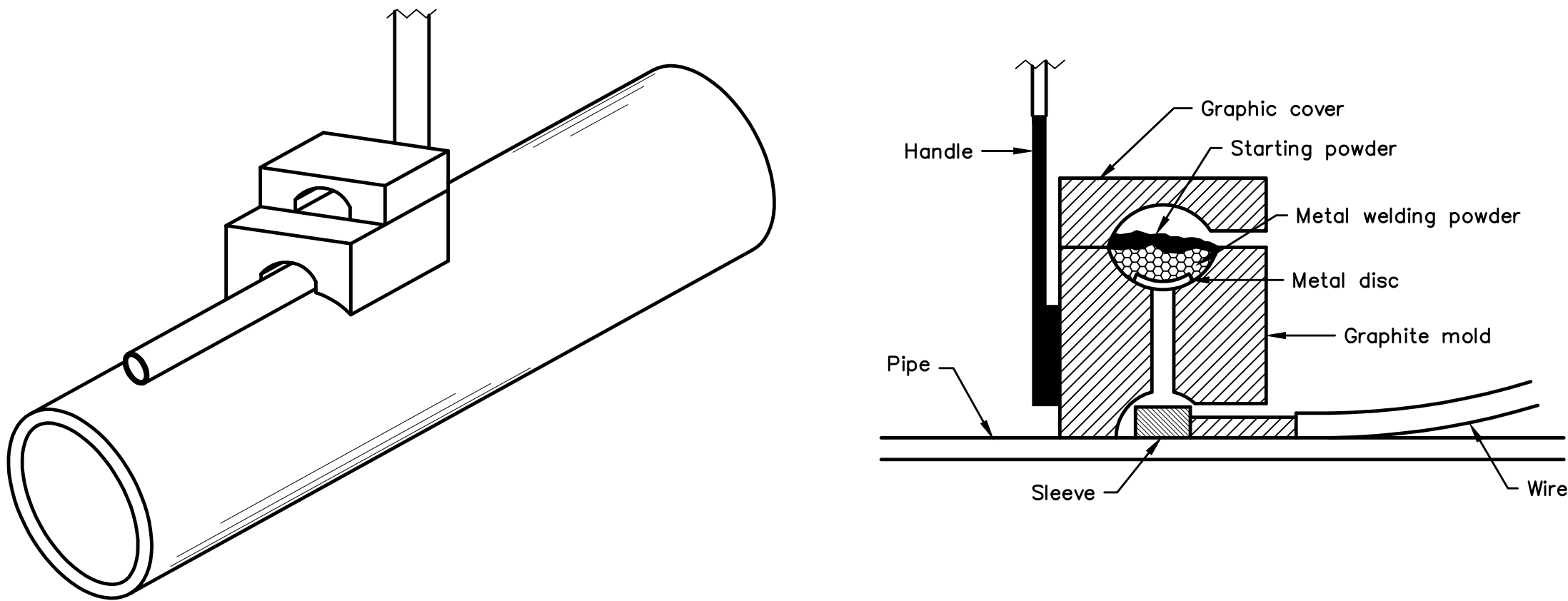
Drawn by Log
Checked by TAC
Date SEPT 2020

Scale AS SHOWN
4 of 44

31429
09-27-2021
PROFESSIONAL ENGINEER



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



NOTES:

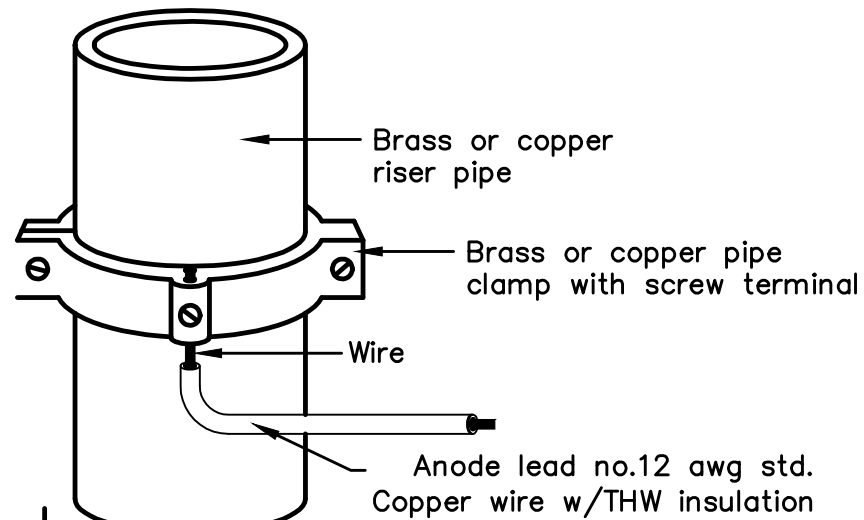
1. All wire welds shall be minimum 3 inches apart.
2. Standard weld cartridges shall be used for steel surfaces.

EXOTHERMIC WELD PROCESS

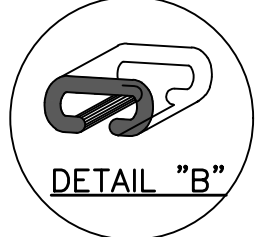
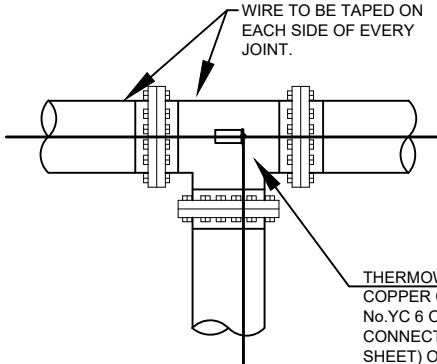
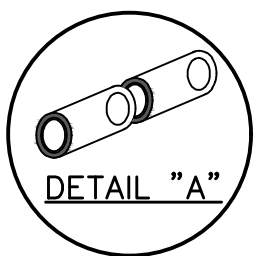
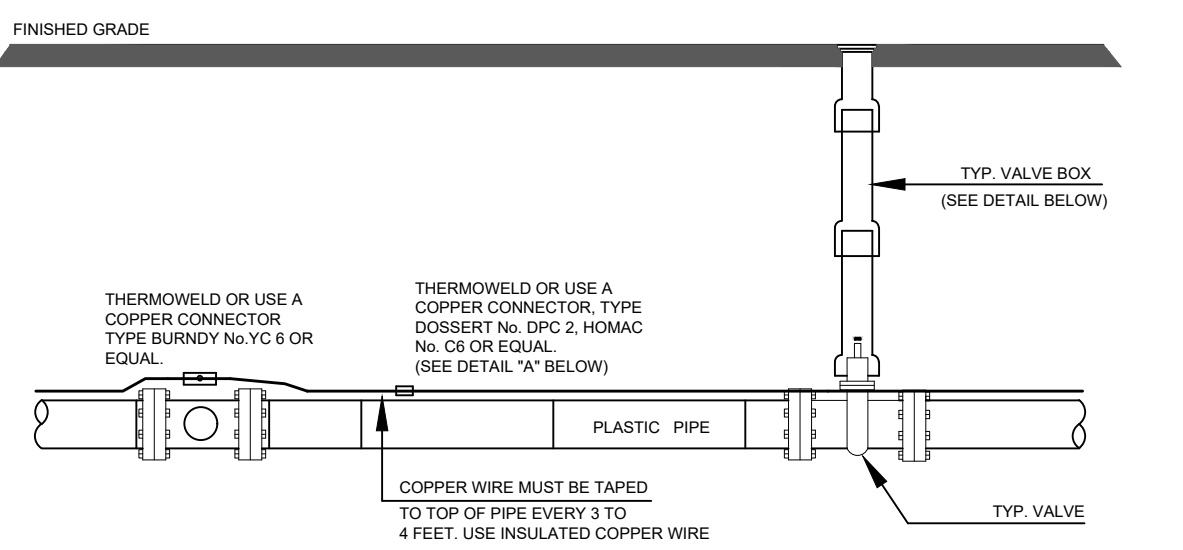
PACKAGED BACKFILL COMPOSTION:

75% gypsum
20% bentonite
5% sodium sulfate

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



ANODE LEAD ABOVE
GRADE CONNECTION



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:

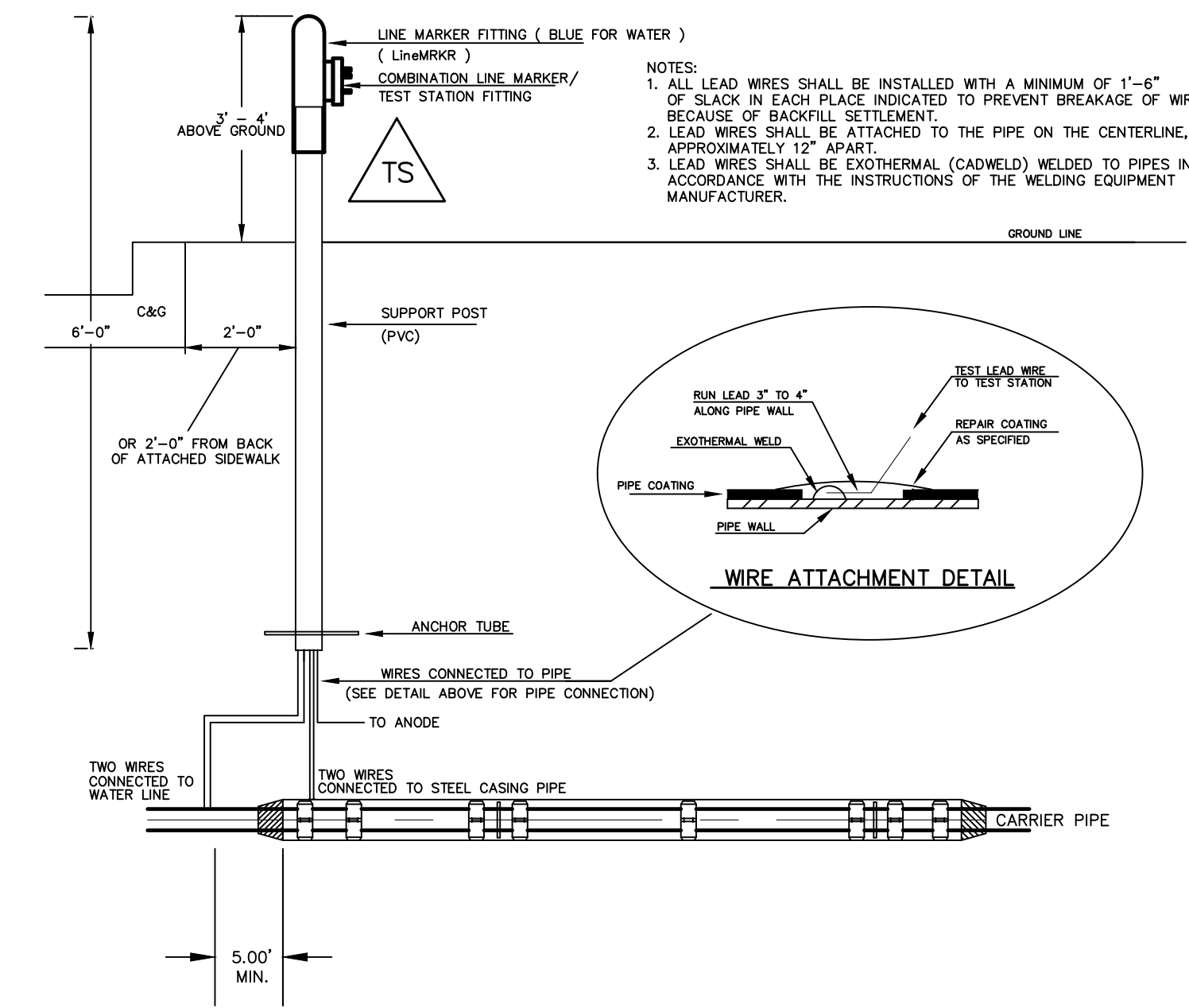
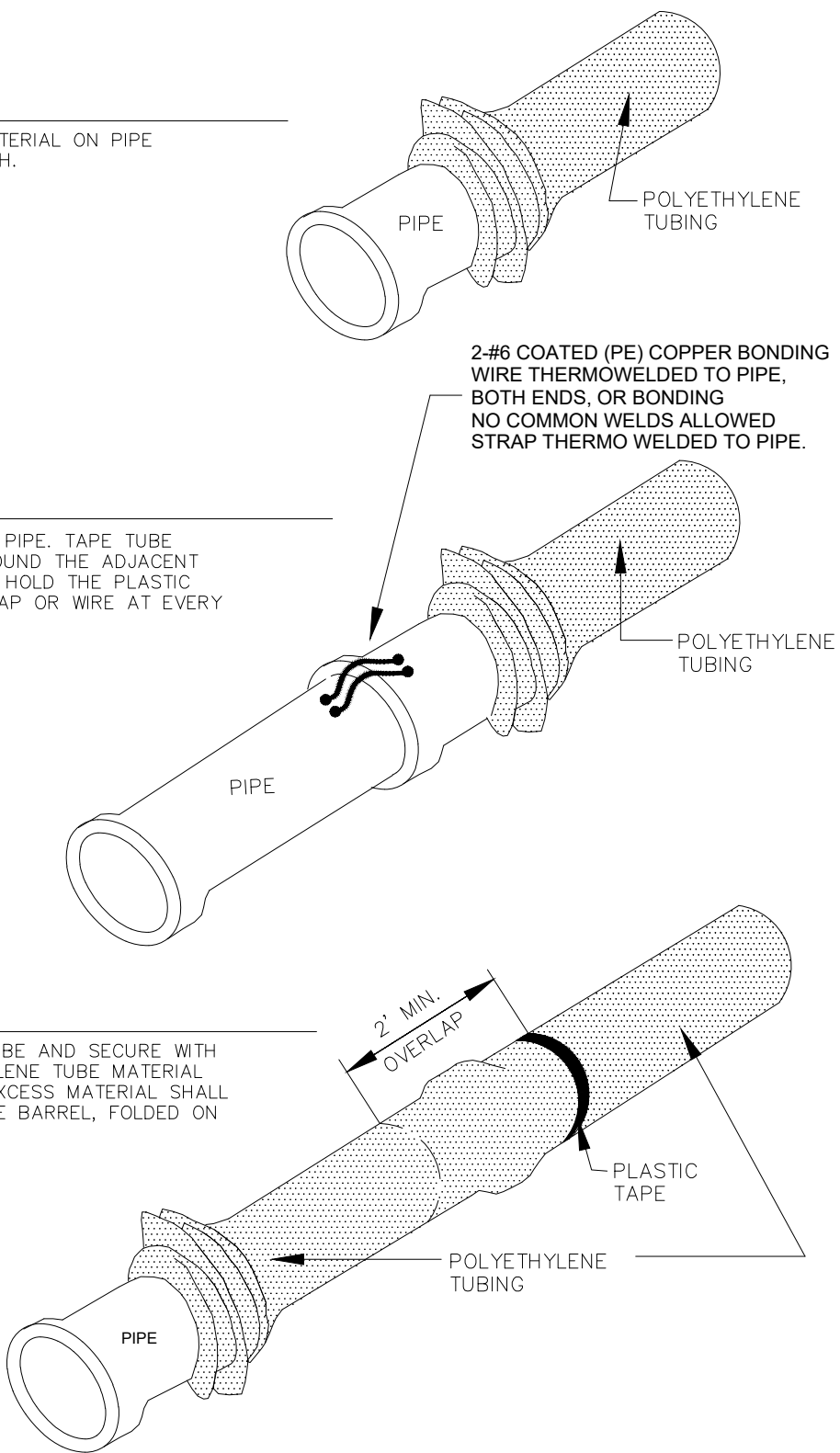
PLACE TUBE OF POLYETHYLENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO TRENCH.

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.

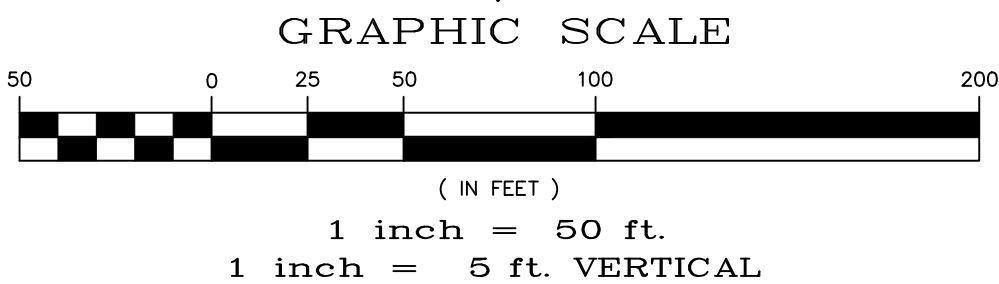
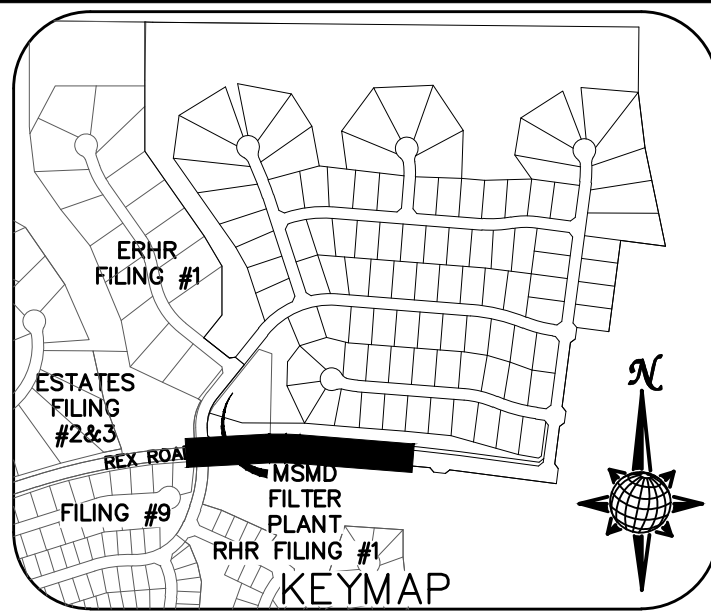
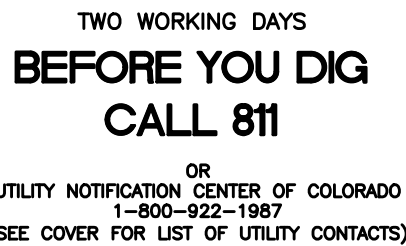


TYPICAL DETAIL FOR TEST STATION
WITH STEEL SLEEVE INSTALLATION

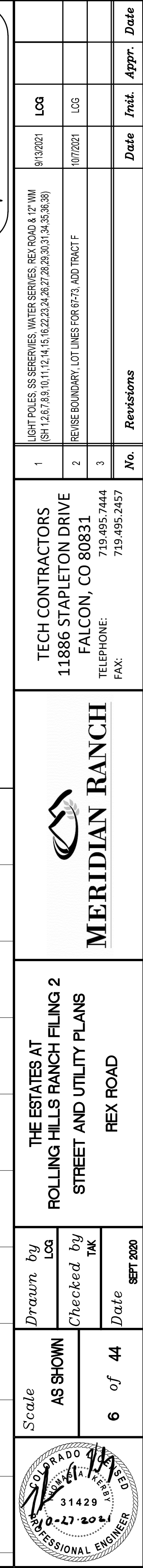
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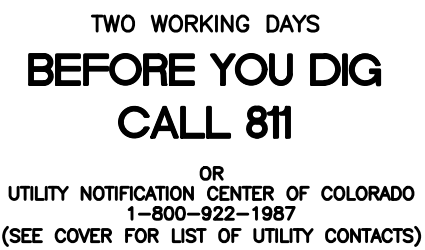
- 1.) Lowerings to be cathodically protected under the direction of the MSMD Inspector, per standards.
(For anode size see detail above.)
- 2.) Example can vary due to site conditions and MSMD Inspector's direction's.
- 3.) Reference Colorado Springs Utilities Standard Detail Drawing No. A 8-6 – Steel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

Log	Log	Log	Date	Appr.	Date
9/13/2021	9/13/2021	9/13/2021	9/13/2021	9/13/2021	9/13/2021
1	2	3	No.	Revisions	No.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE 719.495.7444 FAX 719.495.2457					
MERIDIAN RANCH					
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS DETAIL SHEET					
Drawn by	Log	Checked by	TAK	Date	SEPT 2020
Scale	AS SHOWN	5	of	44	
PROFESSIONAL ENGINEER 31429 09-27-2021					

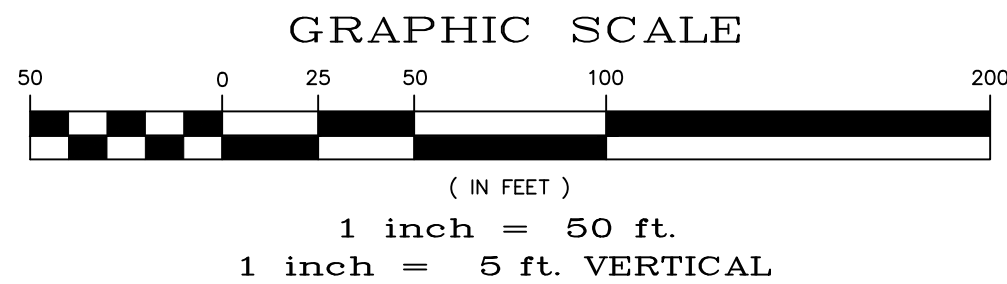


TEMP. MINOR ARTERIAL
80' WIDE RIGHT OF WAY, 31' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)

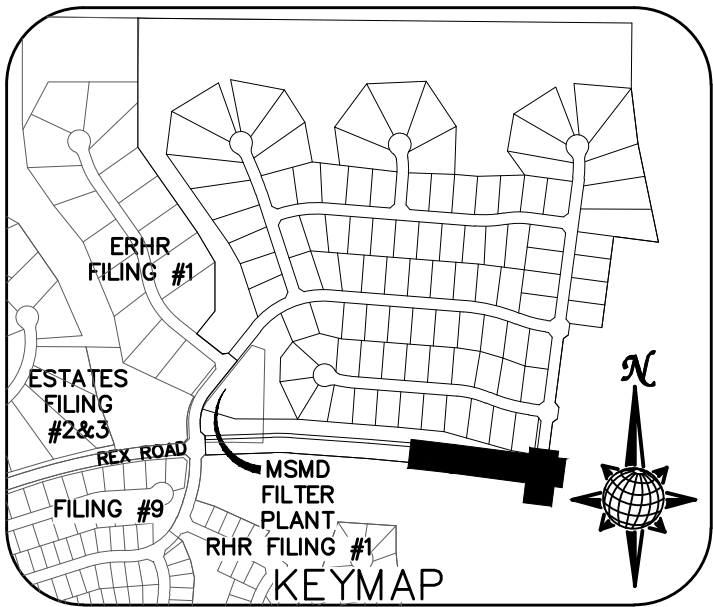






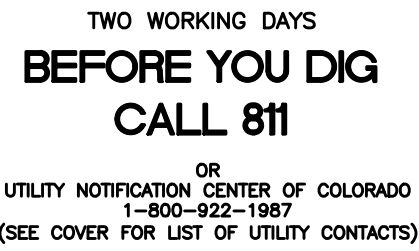
TEMP. MINOR ARTERIAL
80' WIDE RIGHT OF WAY, 31' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



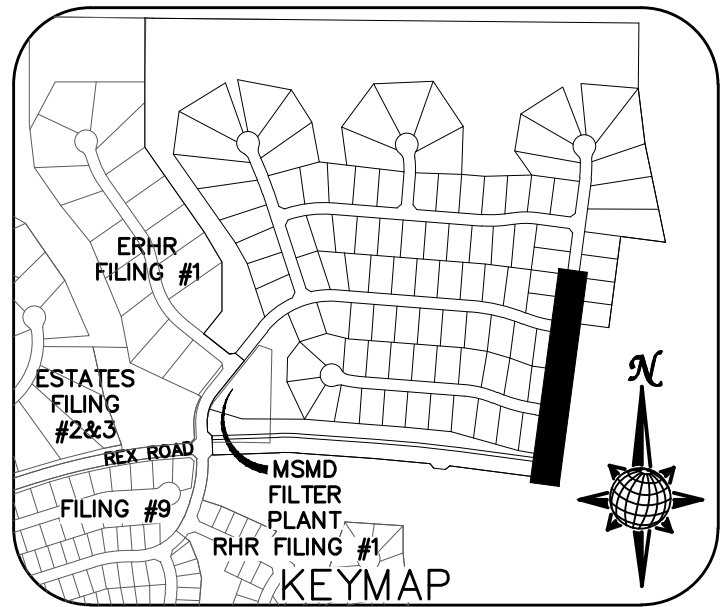
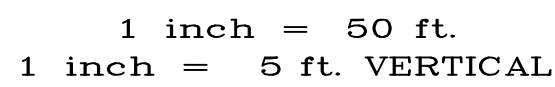
ALL CURB RADII ARE TO TOP BACK OF CURB (TYP.)



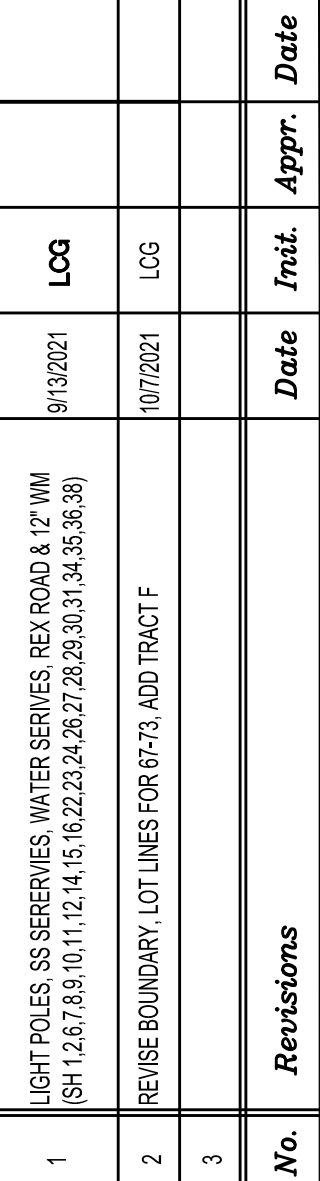
	Scale	AS SHOWN	Drawn by LCG	THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS REX ROAD + STORM #1	 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1	LIGHT POLES, SS SERVICIES, WATER SERVICES, REX ROAD & 12" WM (SH 12.67, 8.01, 11.12, 14.15, 16.22, 23.24, 26.27, 28.29, 30.31, 34, 35, 36, 38)	9/3/2021	LOG		
							2	REVISE BOUNDARY, LOT LINES FOR 67+73, ADD TRACT F	10/7/2021	LCG		
							3					
7 of 44			Date	SEPT 2020			No.	Revisions	Date	Invt.	Appr.	Date



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



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



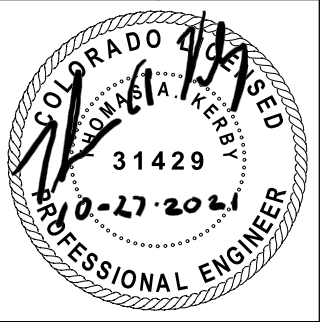
TECH CONTRACTORS
11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE: 719.495.7444
FAX: 719.495.2457



THE ESTATES AT
ROLLING HILLS RANCH FILING 2
STREET AND UTILITY PLANS
ESTATE RIDGE DR.

<i>Drawn by</i>	<i>LOG</i>
<i>Checked by</i>	<i>TAK</i>
<i>Date</i>	SEPT 2020

Scale
AS SHOWN
8 of 44

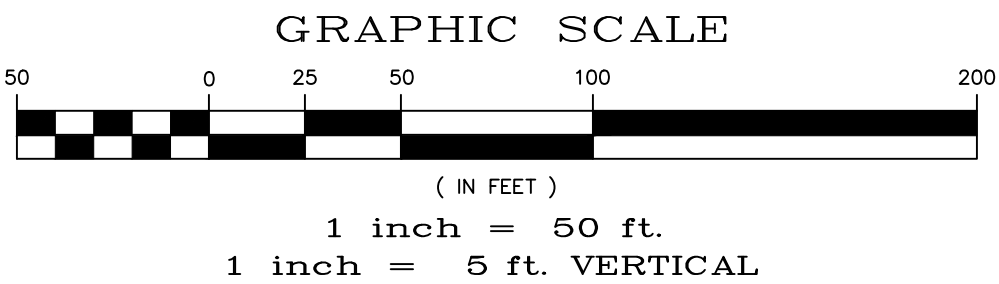
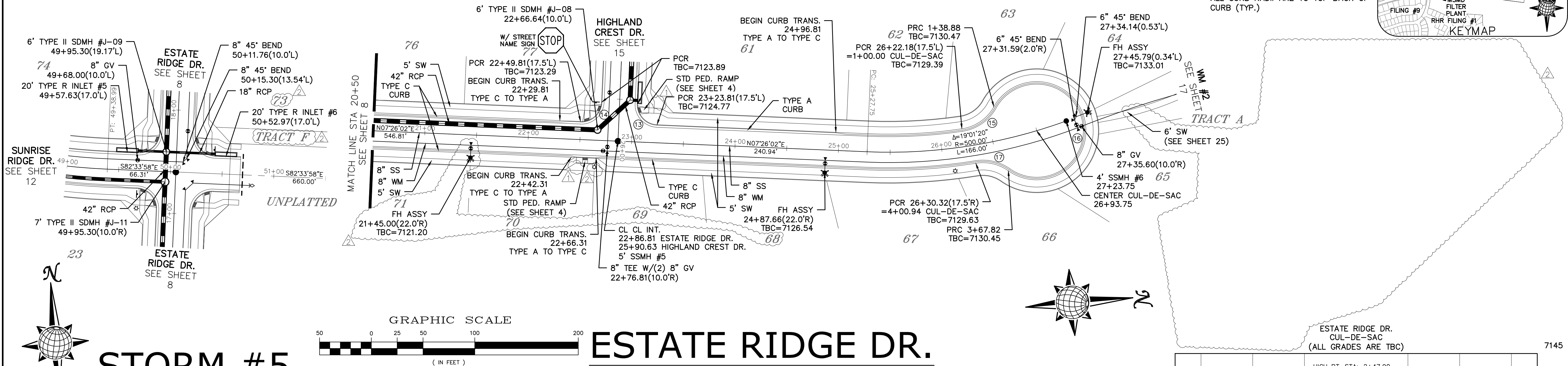
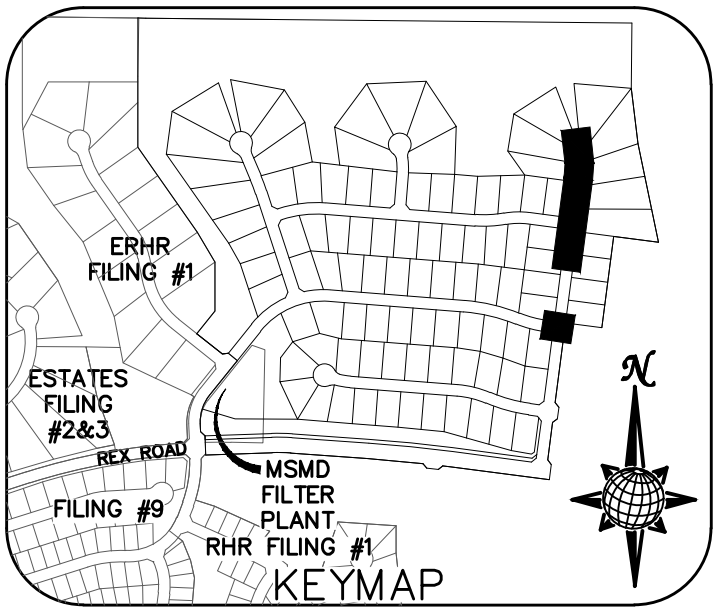




TWO WORKING DAYS
**BEFORE YOU DIG
CALL 811**
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

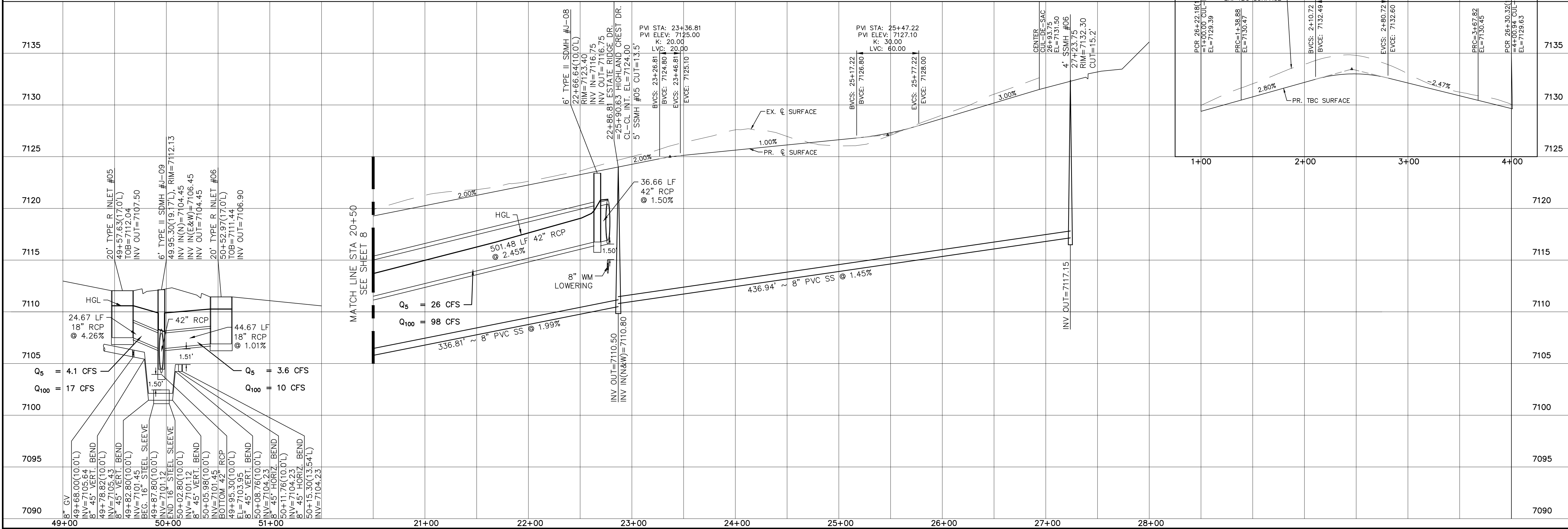
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
13	30.63'	19.50'	90°00'00"
14	30.63'	19.50'	90°00'00"
15	38.88'	42.50'	52°25'17"
16	228.93'	47.50'	276°08'49"
17	33.13'	42.50'	44°39'30"

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

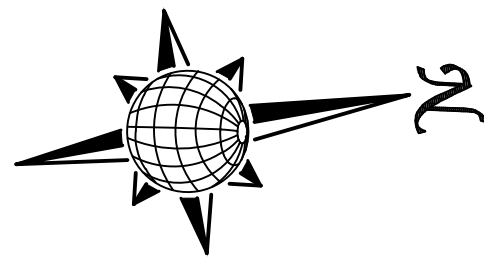
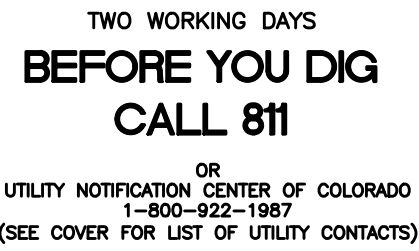


ESTATE RIDGE DR.

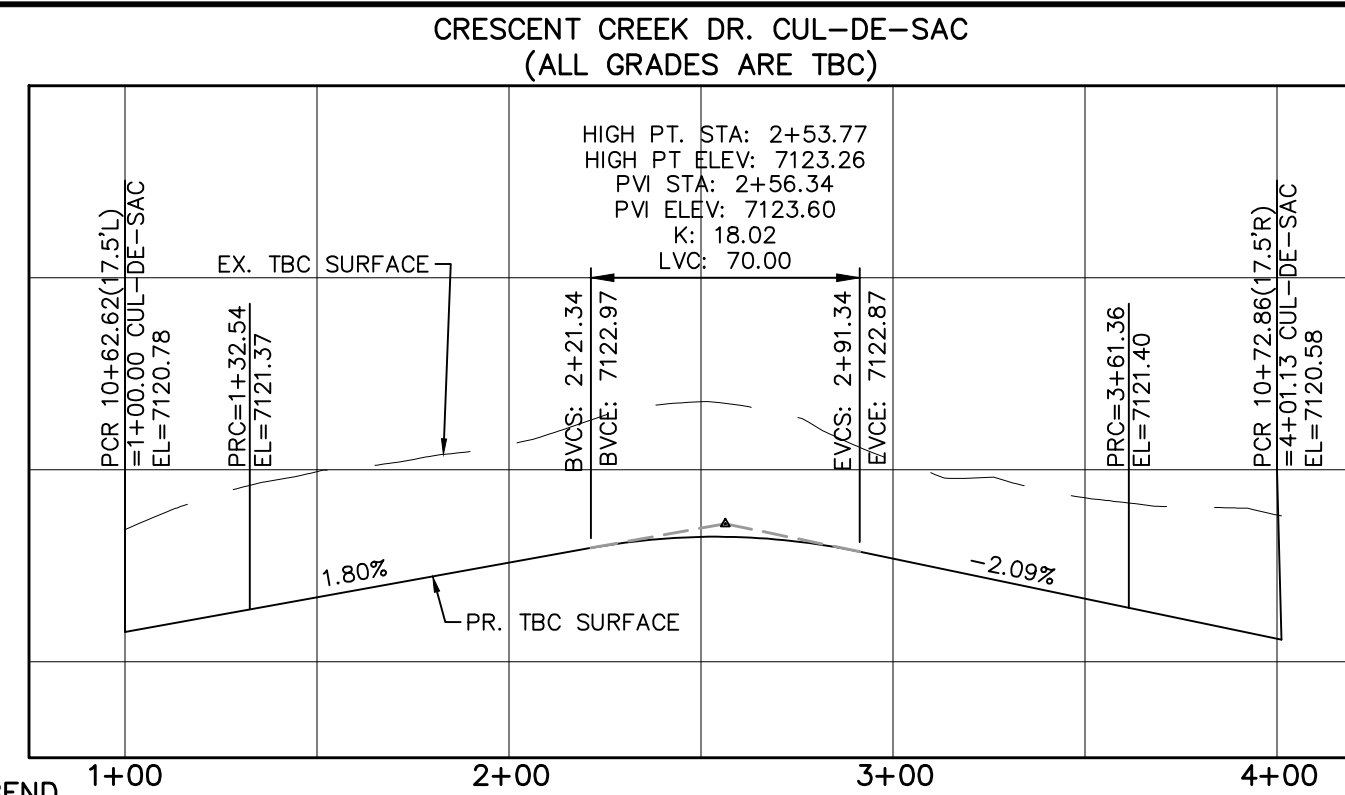
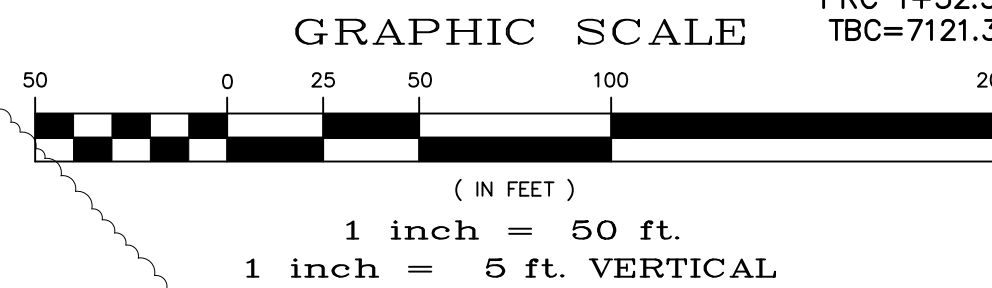
URBAN LOCAL TO STA 23+23.81
URBAN LOCAL LOW VOLUME AFTER STA 23+23.81
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



Log	9/10/2021	Log	10/7/2021	Date	9/10/2021	Appr.	
No.	1	No.	2	No.	3	Revisions	
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457							
 MERIDIAN RANCH							
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS ESTATE RIDGE DR.							
Scale	AS SHOWN	Drawn by	Log	Checked by	TAK	Date	SEPT 2020
9 of 44							

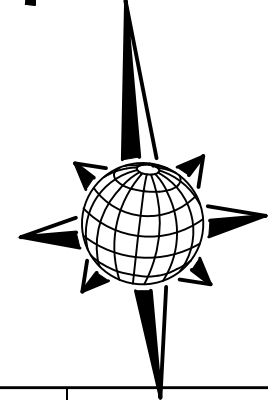
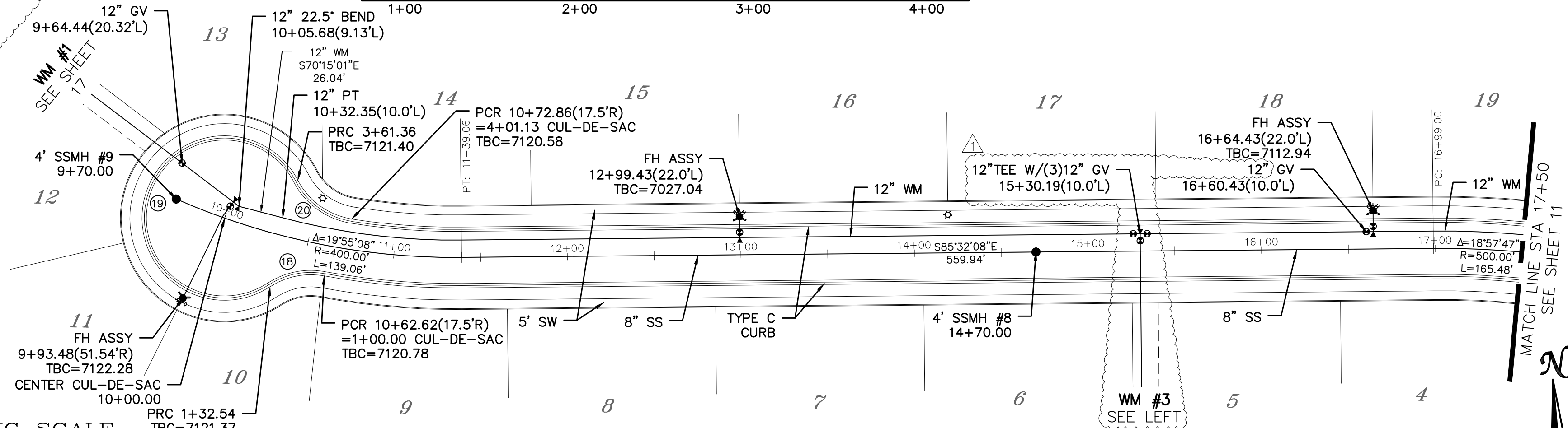
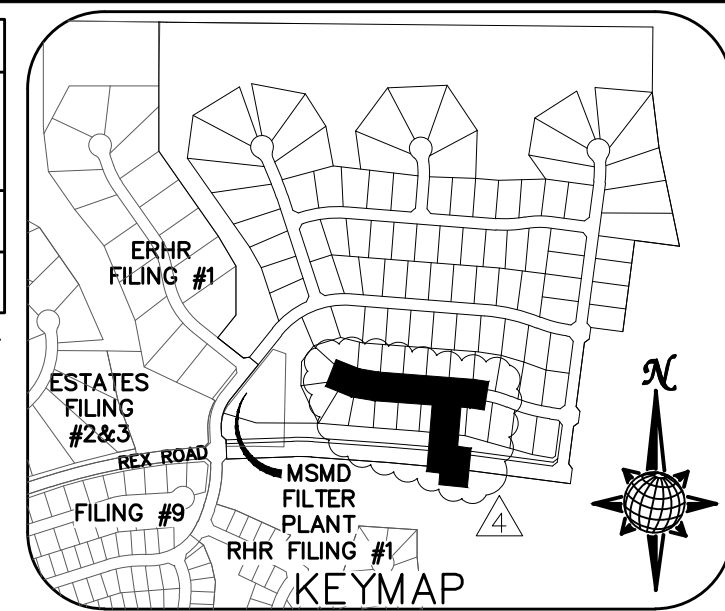


WM #3



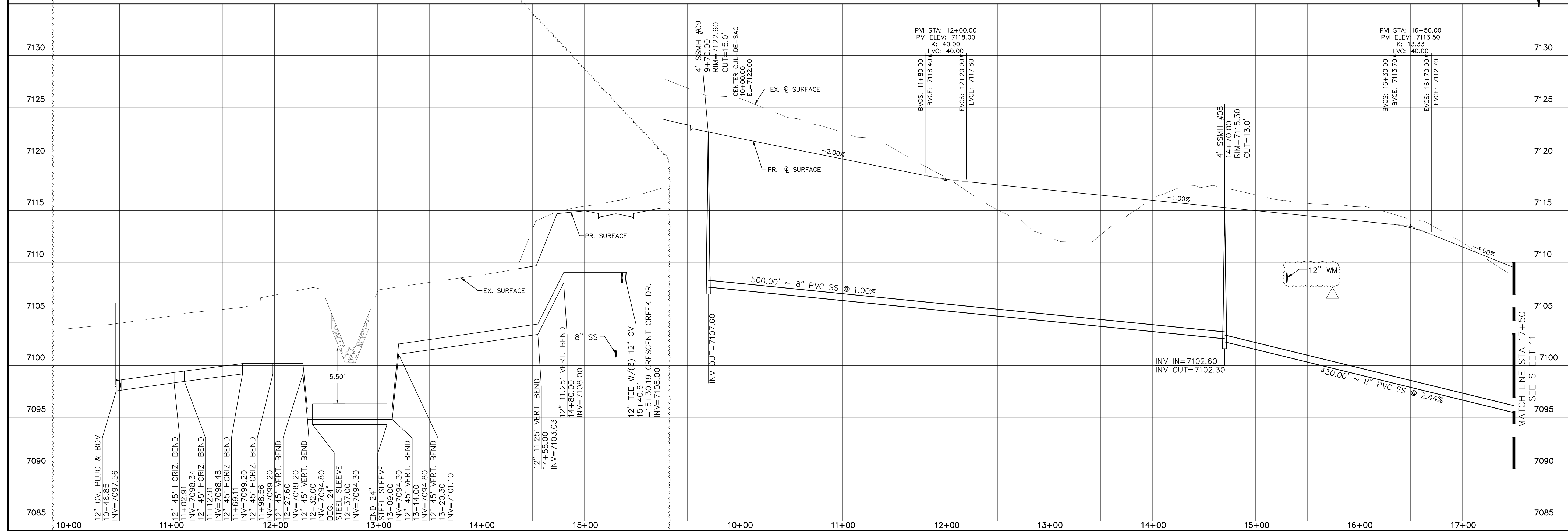
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
18	32.54'	42.50'	43°51'42"
19	228.82'	47.50'	276°00'52"
20	39.77'	42.50'	53°37'12"

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



CRESCENT CREEK DR.

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



No.	Revisions	Date	Appr.	Date
1	LIGHT POLES, SS SERVICES, WATER SERVICES, BEY ROUND & 17 TH WM. (S/11, 6.5, 8.0, 11.1, 12.14, 15.16, 22.22, 32.4/26, 27.28, 39.31, 34.35, 35.38)	9/3/2021		
2	REMOVE BOUNDARY LOT LINES FOR 612-73, ADD TRACT F	10/7/2021	LCG	
3				

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



MERIDIAN RANCH

THE ESTATES AT
ROLLING HILLS RANCH FILING 2
STREET AND UTILITY PLANS
CRESCENT CREEK DR. + WM #3

<i>Drawn by</i>	LOG
<i>Checked by</i>	TAK
<i>Date</i>	SEPT 2020

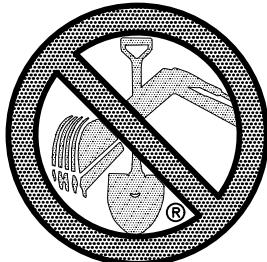
Scale
AS SHOWN
10 of 44



PCD PROJECT NO. SF-20-018

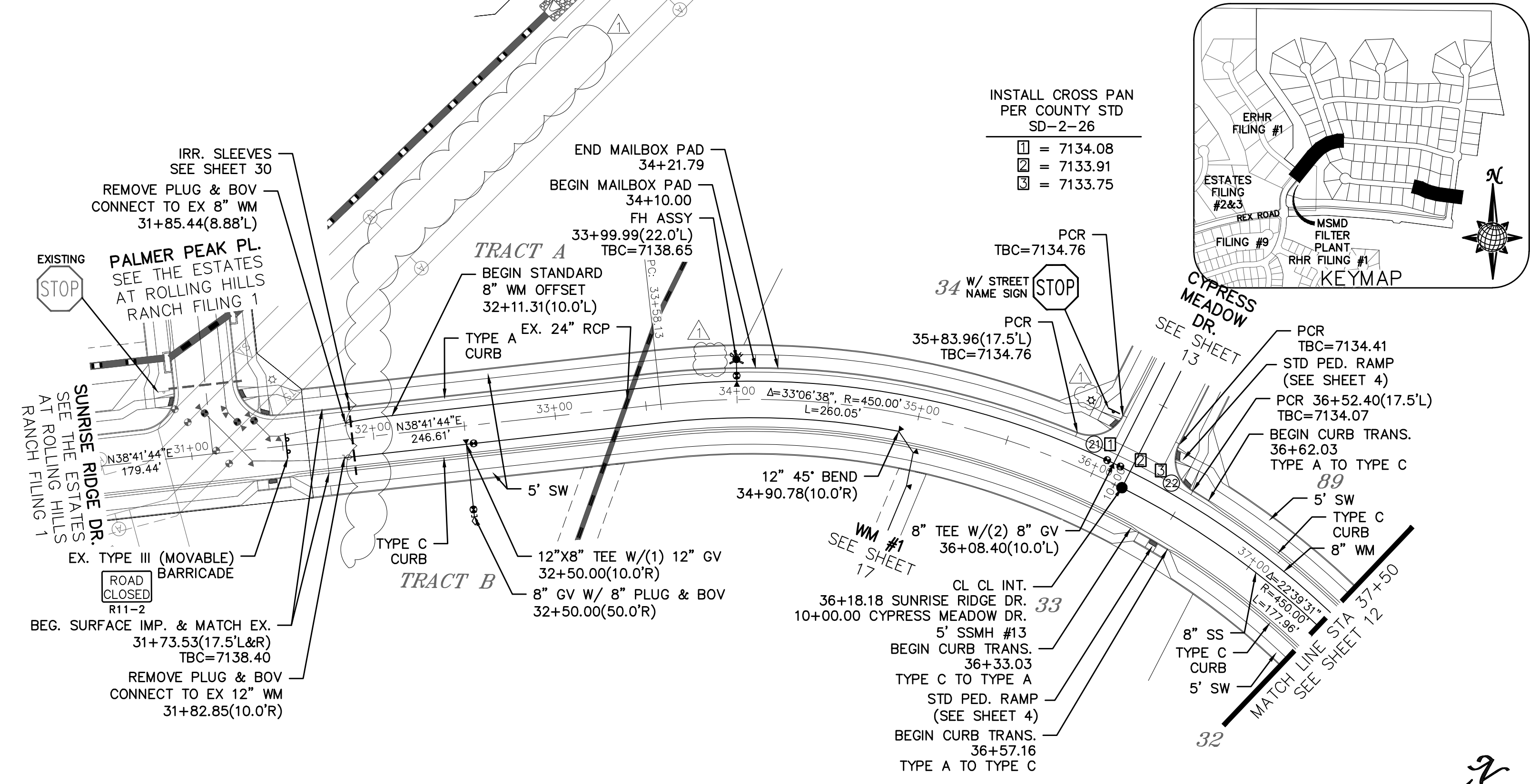
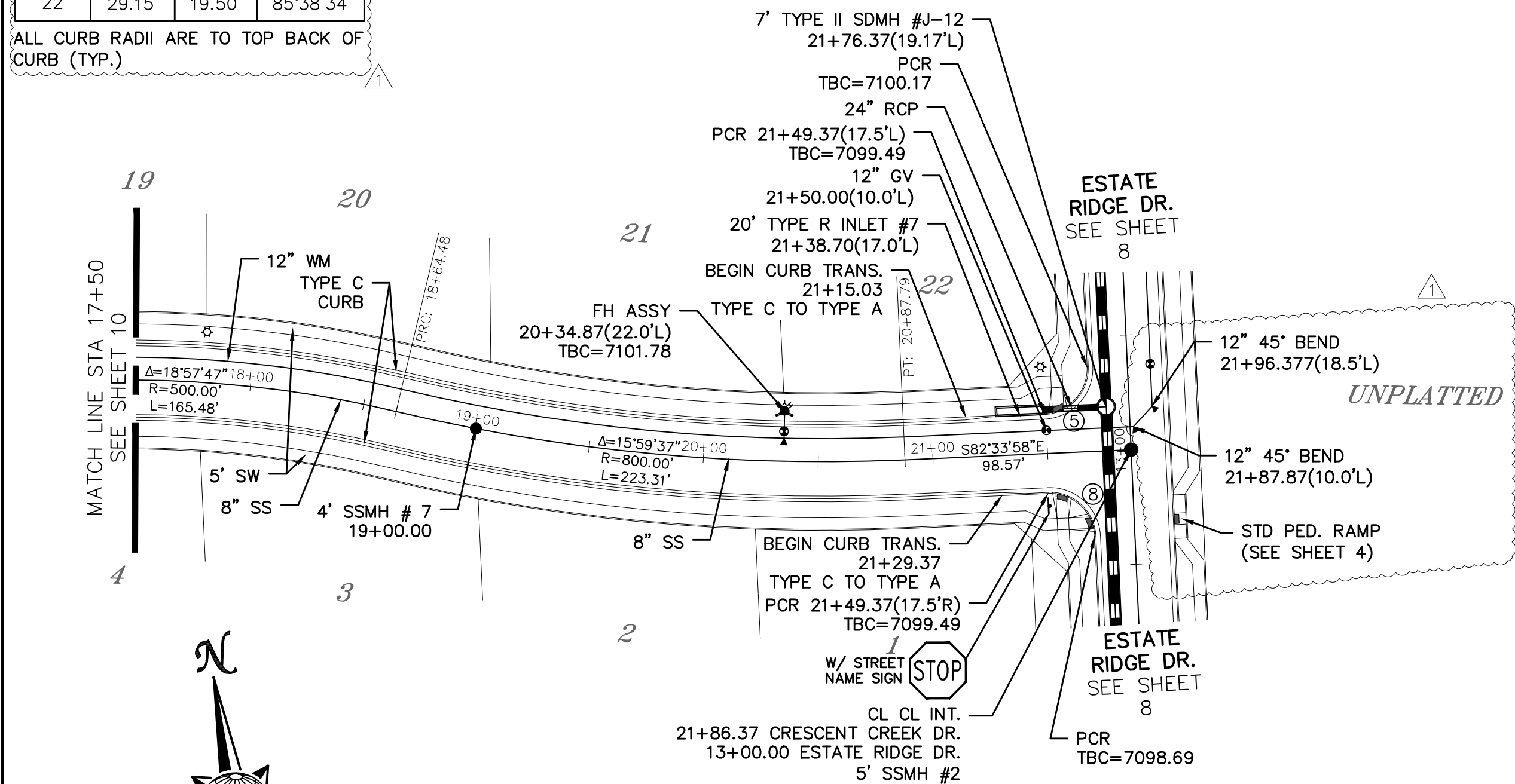
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
5	30.63'	19.50'	90°00'00"
8	30.63'	19.50'	90°00'00"
21	29.15'	19.50'	85°38'34"
22	29.15'	19.50'	85°38'34"

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



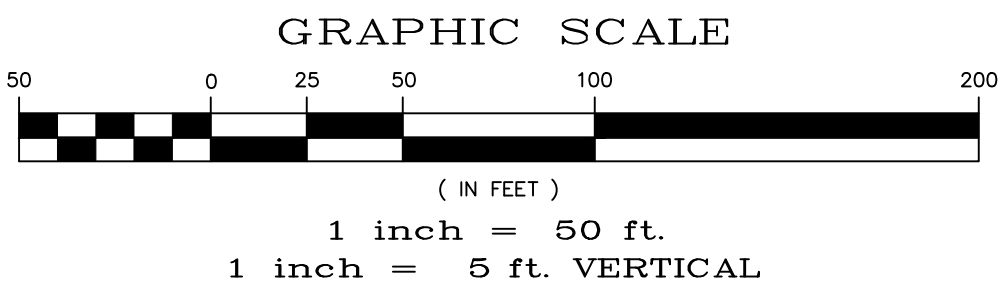
TWO WORKING DAYS
**BEFORE YOU DIG
CALL 811**

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



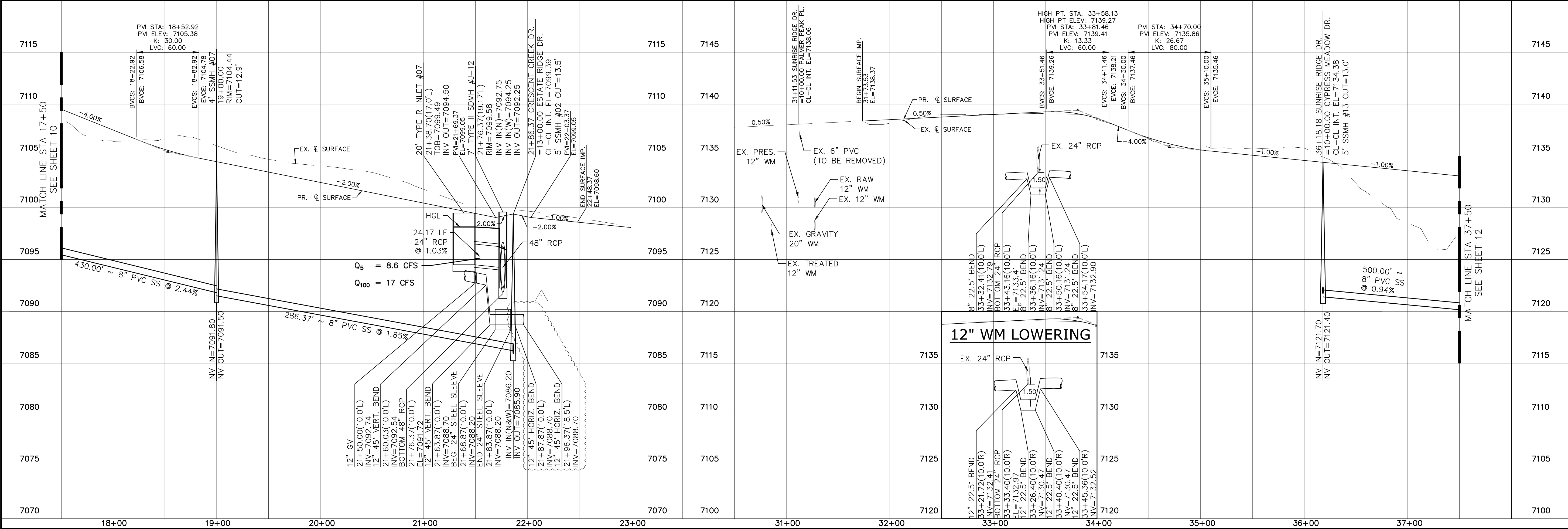
CRESCENT CREEK DR.

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



SUNRISE RIDGE DR.

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



Log	LCG	Init.	Appr.	Date
9/10/2021				
10/7/2021				

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


MERIDIAN RANCH

THE ESTATES AT
ROLLING HILLS RANCH FILING 2
STREET AND UTILITY PLANS
CRESCENT CREEK DR. +
SUNRISE RIDGE DR.

Drawn by
Checked by
Date

Scale
AS SHOWN
11 of 44

PROFESSIONAL ENGINEER
31429
09-27-2021



TWO WORKING DAYS

BEFORE YOU DIG

CALL 811

OR

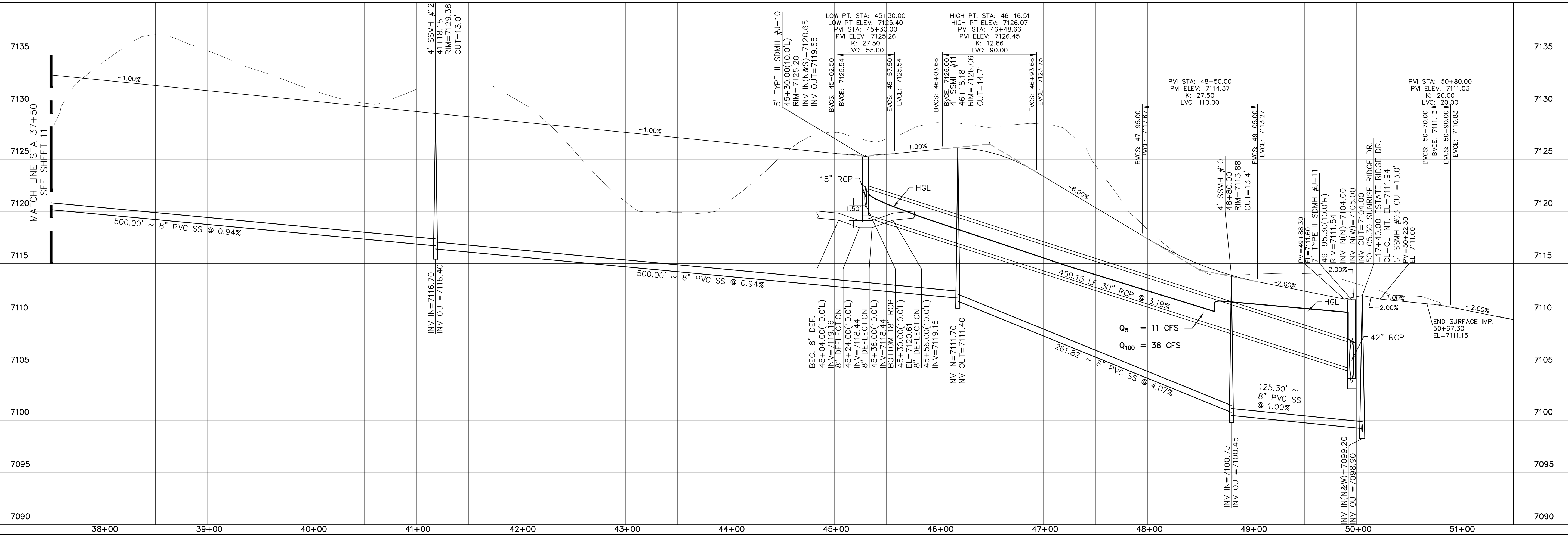
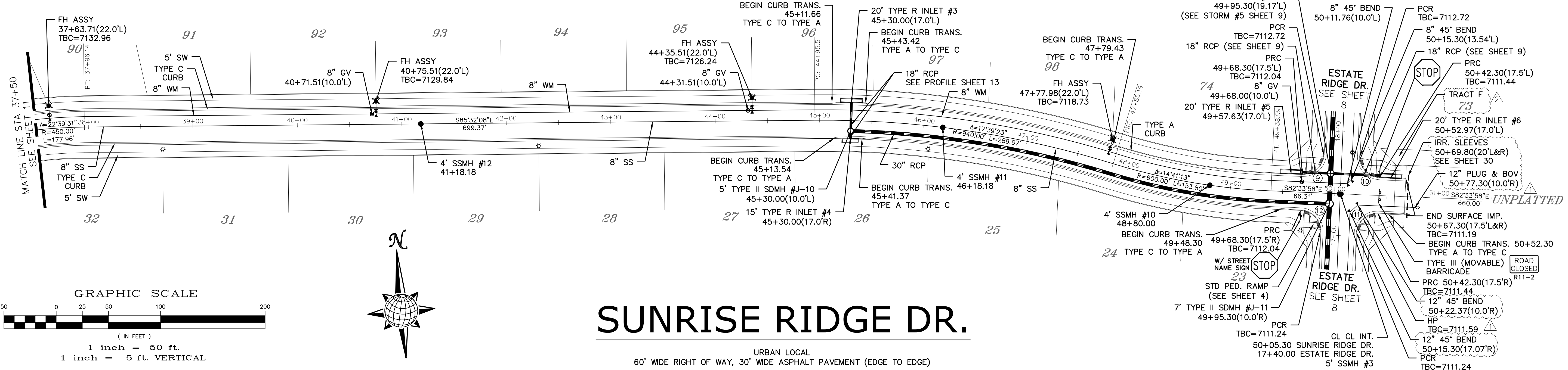
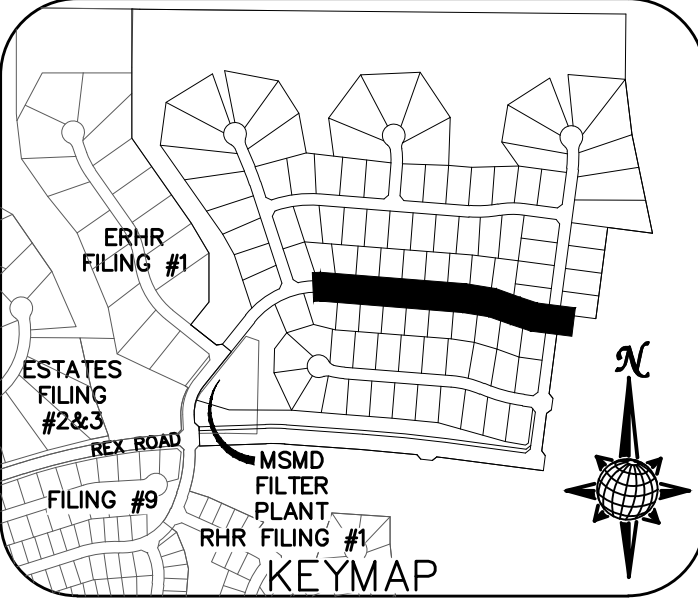
UTILITY NOTIFICATION CENTER OF COLORADO

1-800-922-1987

(SEE COVER FOR LIST OF UTILITY CONTACTS)

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
9	30.63'	19.50'	90°00'00"
10	30.63'	19.50'	90°00'00"
11	30.63'	19.50'	90°00'00"
12	30.63'	19.50'	90°00'00"

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



Log

9/13/2021

Log

10/7/2021

Date

9/13/2021

Appr.

1

2

3

No.


TECH CONTRACTORS

11886 STAPLETON DRIVE

FALCON, CO 80831

TELEPHONE 719.495.7444

FAX 719.495.2457



MERIDIAN RANCH

THE ESTATES AT

ROLLING HILLS RANCH FILING 2

STREET AND UTILITY PLANS

SUNRISE RIDGE DR.

Drawn by

Log

Checked by

TAK


Date

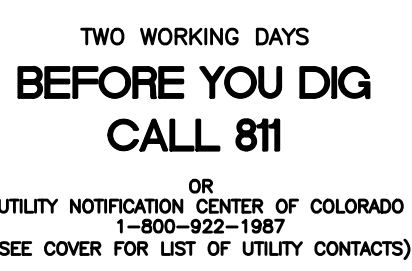
8/27/2020

Scale

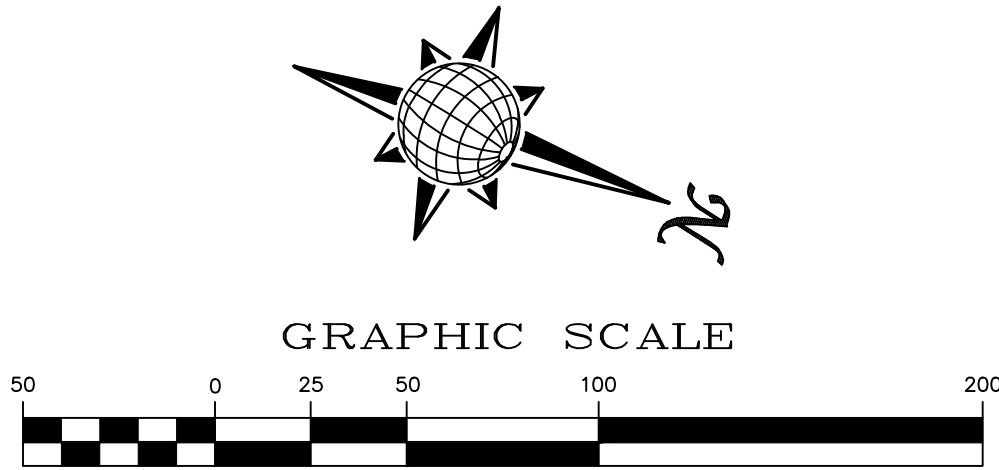
AS SHOWN

12 of 44



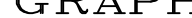


PCR & BEG. NON-STD SECT.
 10+35.59(17.5'L)
 TBC=7134.76
 BEGIN CURB TRANS.
 10+45.59
 TYPE A TO TYPE C 12+
 34 END NON-STD SECT.
 10+80.77(17.5'L)
 TBC=7135.21 5



GRAPHIC SCALE

25 50 100



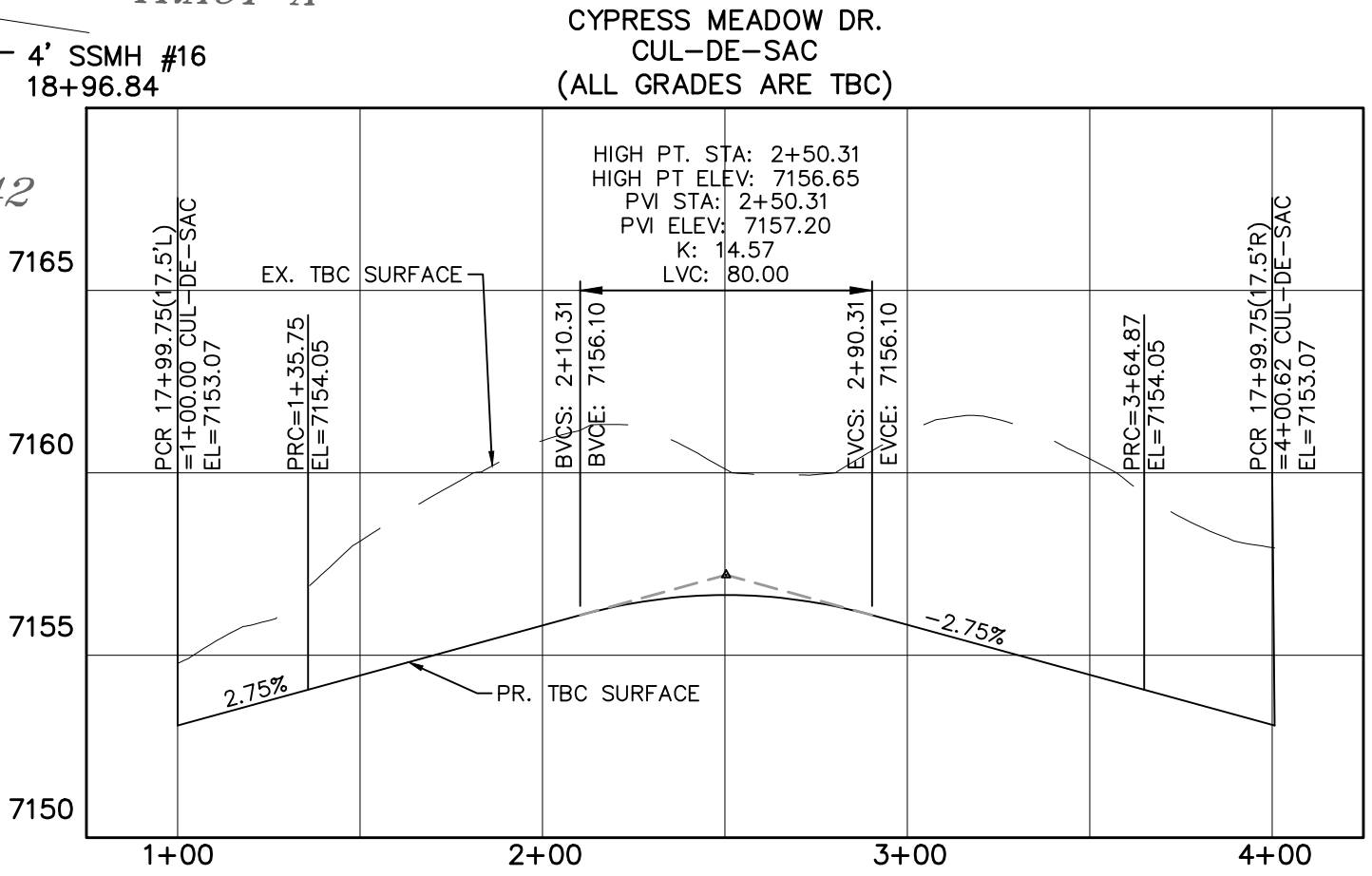
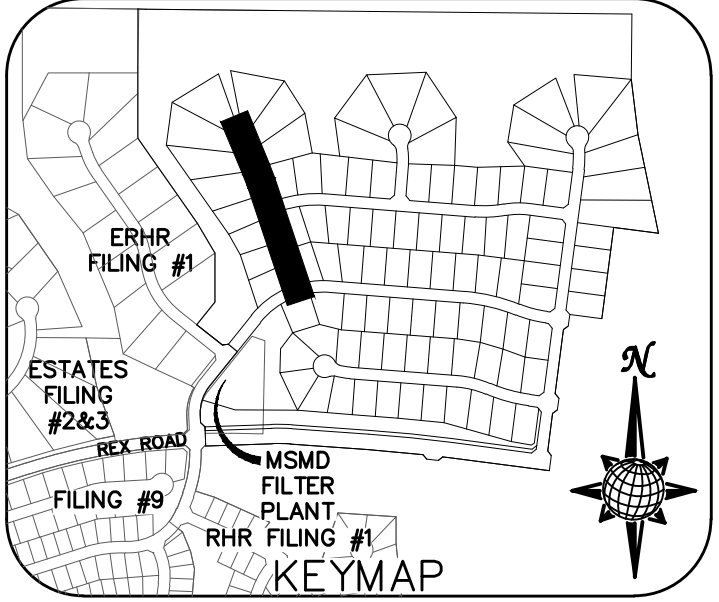
(IN FEET)

1 inch = 50 ft.

1 inch = 5 ft. VERTICAL

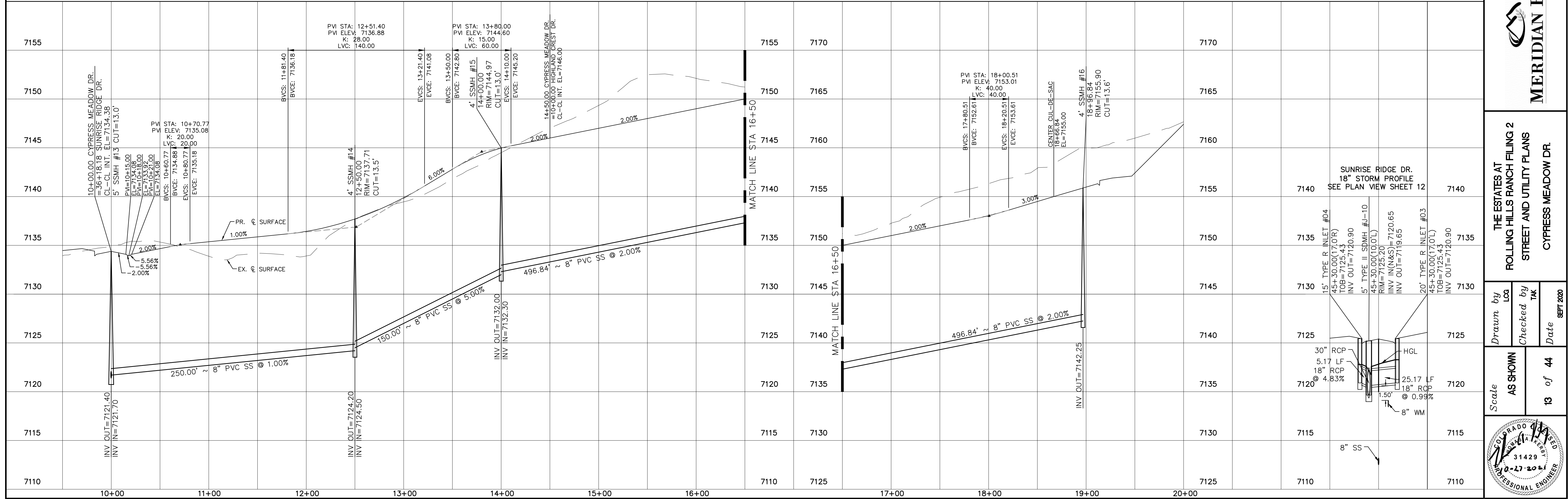
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
23	30.63'	19.50'	90°00'00"
24	30.63'	19.50'	90°00'00"
25	35.75'	42.50'	48°11'23"
26	229.13'	47.50'	276°22'46"
27	35.75'	42.50'	48°11'23"



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




CYPRESS MEADOW DR.

URBAN LOCAL TO STA 14+87.00
URBAN LOCAL LOW VOLUME AFTER STA 14+87.00
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



	Scale AS SHOWN	Drawn by LCG	THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS CYPRESS MEADOW DR.	 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1	LIGHT POLES, SS SERVES, WATER SERVES, REA ROAD & 12" WM (SH: 12.67, 8.9, 10.1, 12.14, 15.16, 22.23, 24.28, 27.28, 30.31, 34.35, 36.38)	LOG	9/13/2021		
		Checked by TAK									
	Date SEPT 2020	13 of 44									
						2	REVISE BOUNDARY LOT LINES FOR 67-73, ADD TRACT F	LOG	10/7/2021		
						3					
						No.	Revisions				
					</						



TWO WORKING DAYS

BEFORE YOU DIG

CALL 811

OR

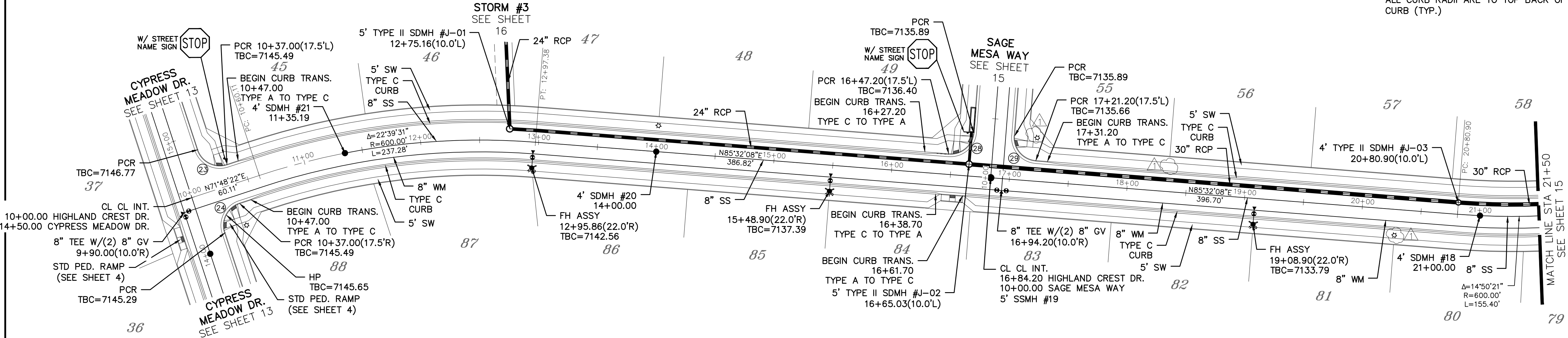
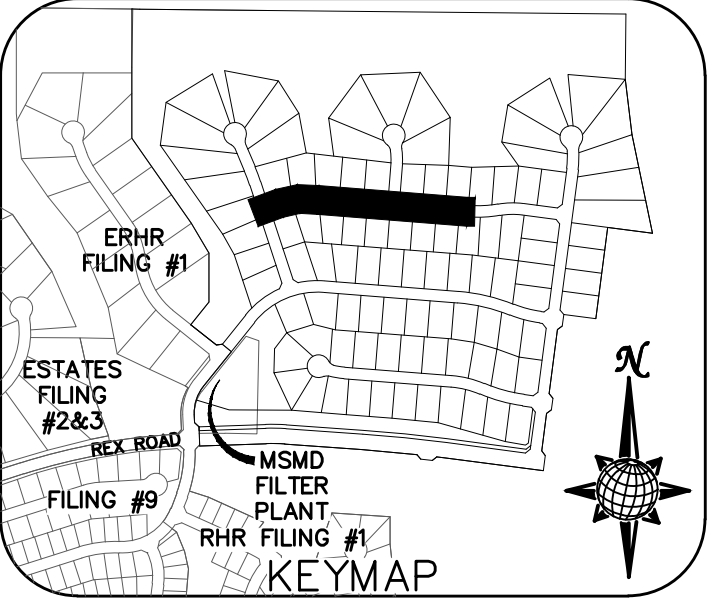
UTILITY NOTIFICATION CENTER OF COLORADO

1-800-922-1987

(SEE COVER FOR LIST OF UTILITY CONTACTS)

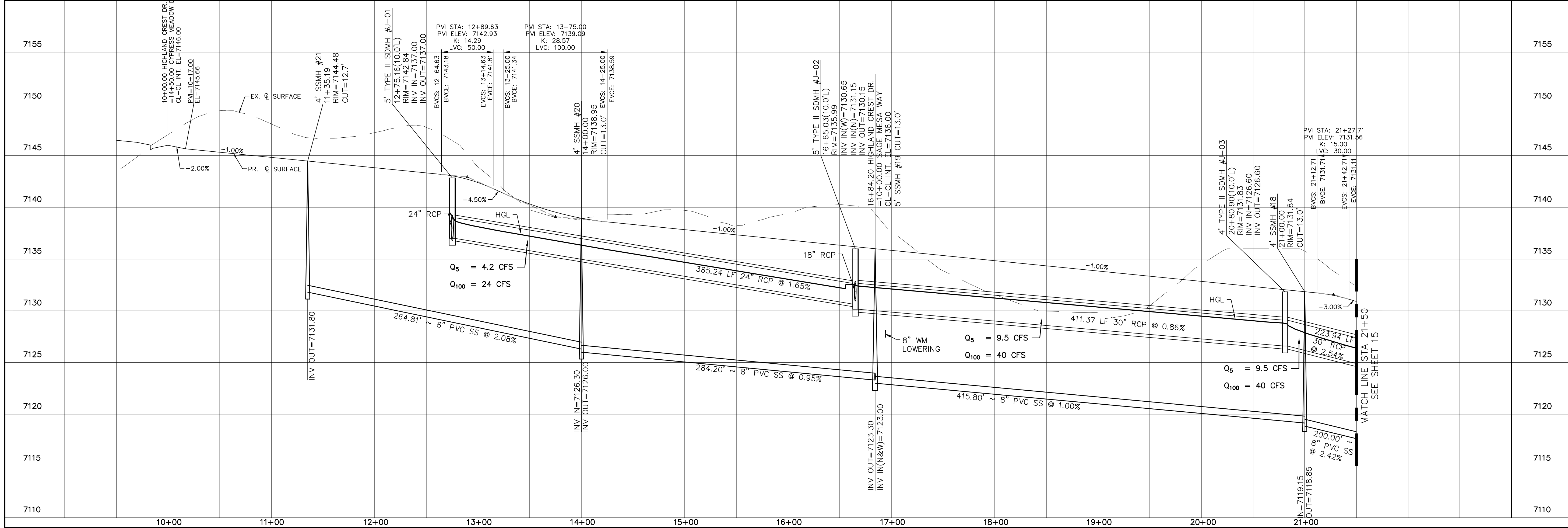
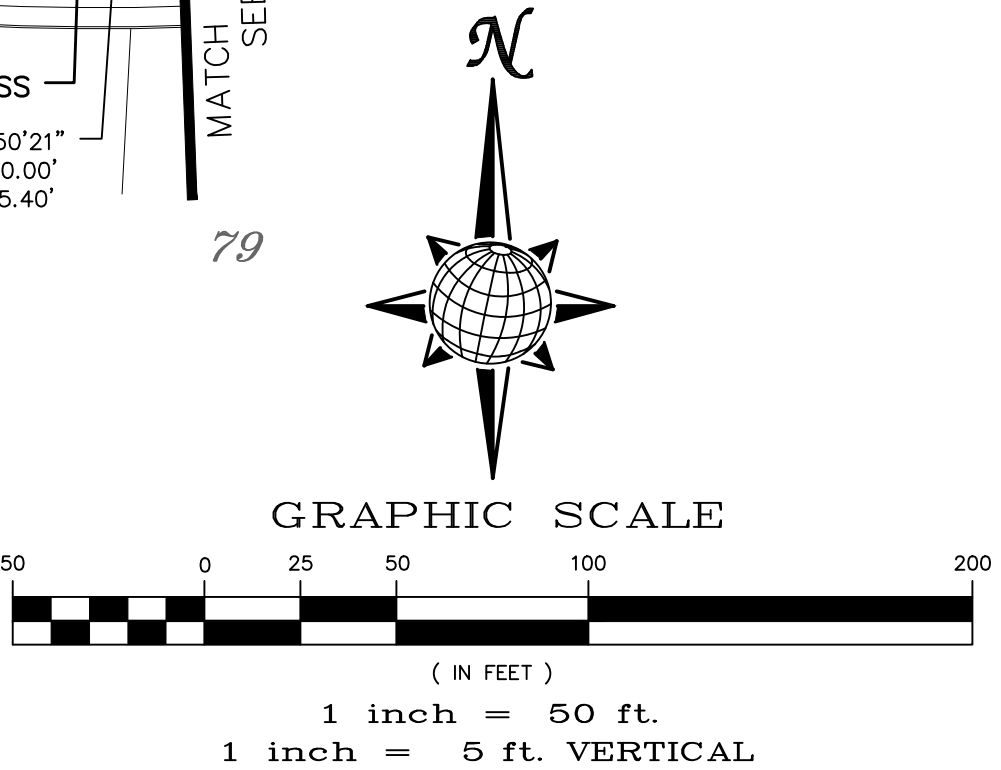
CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
23	30.63'	19.50'	90°00'00"
24	30.63'	19.50'	90°00'00"
28	30.63'	19.50'	90°00'00"
29	30.63'	19.50'	90°00'00"

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



HIGHLAND CREST DR.

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



Log

9/13/2021

Log

10/7/2021

Init.

Date

Revisions

No.

1

2

3

TECH CONTRACTORS

11886 STAPLETON DRIVE

FALCON, CO 80831

TELEPHONE 719.495.7444

FAX 719.495.2457

THE ESTATES AT

ROLLING HILLS RANCH FILING 2

STREET AND UTILITY PLANS

HIGHLAND CREST DR.

Drawn by

Log

Checked by

TAK

Date

8/27/2020

Scale

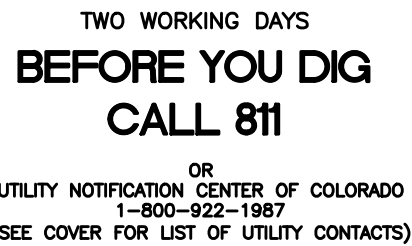
AS SHOWN

14 of 44

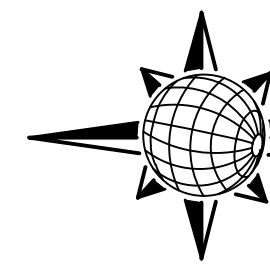
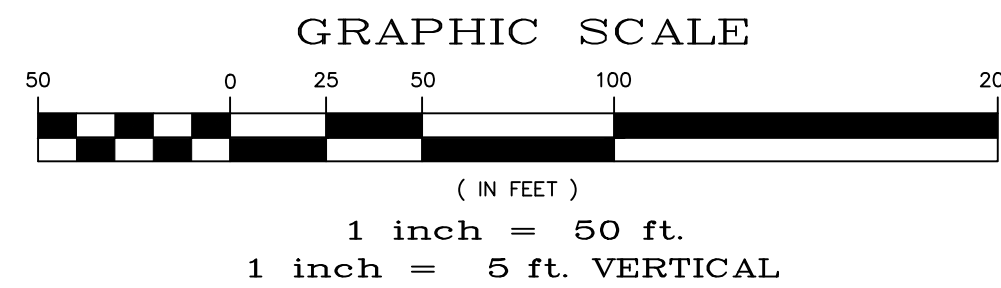
PROFESSIONAL ENGINEER

31429

8-27-2021

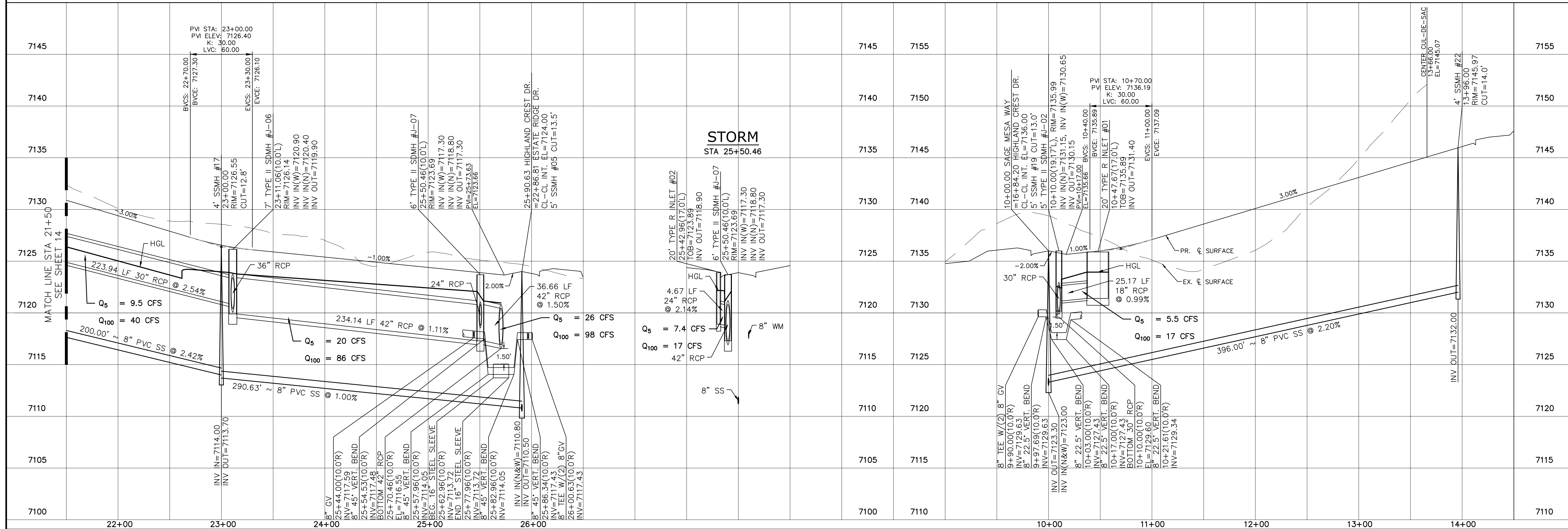
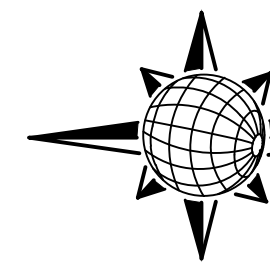
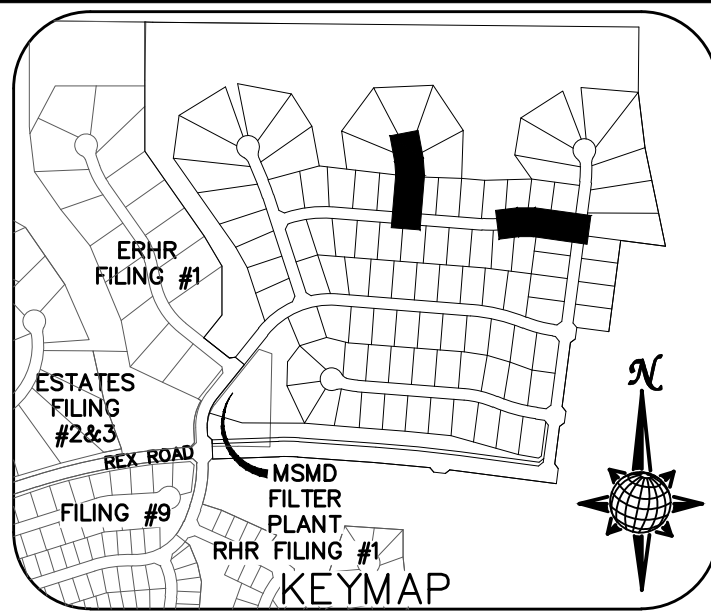


URBAN LOCAL
60' WIDE RIGHT OF WAY, 30' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



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

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



	LIGHT POLES SS SERVES WATER SERVICES; HEX ROAD & 12' W/M SH 1.6,7; A8.9, 10.11, 12.14, 15.16, 22.23, 24.26, 27.28, 29.30, 31.34, 35.36-38)	LOG	9/13/2021	
	REVERSE BOUNDARY LOT LINES FOR 67'-3" ADJ TRACT F	LCG	10/7/2021	
Revisions	Date	Instr.	Appr.	Date

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



MERIDIAN RANCH

THE ESTATES AT
HILLING HILLS RANCH FILING 2
STREET AND UTILITY PLANS
HIGHLAND CREST DR. +
SAGE MESA WAY

<i>Drawn by</i> LCG	<i>Checked by</i> TAK	<i>Date</i> SEPT 2020
------------------------	--------------------------	--------------------------

Scale

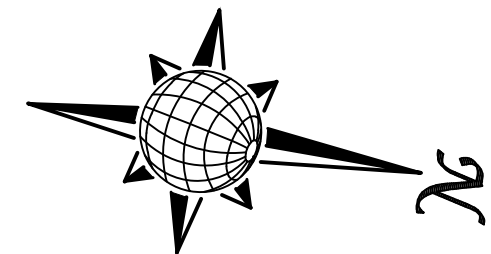
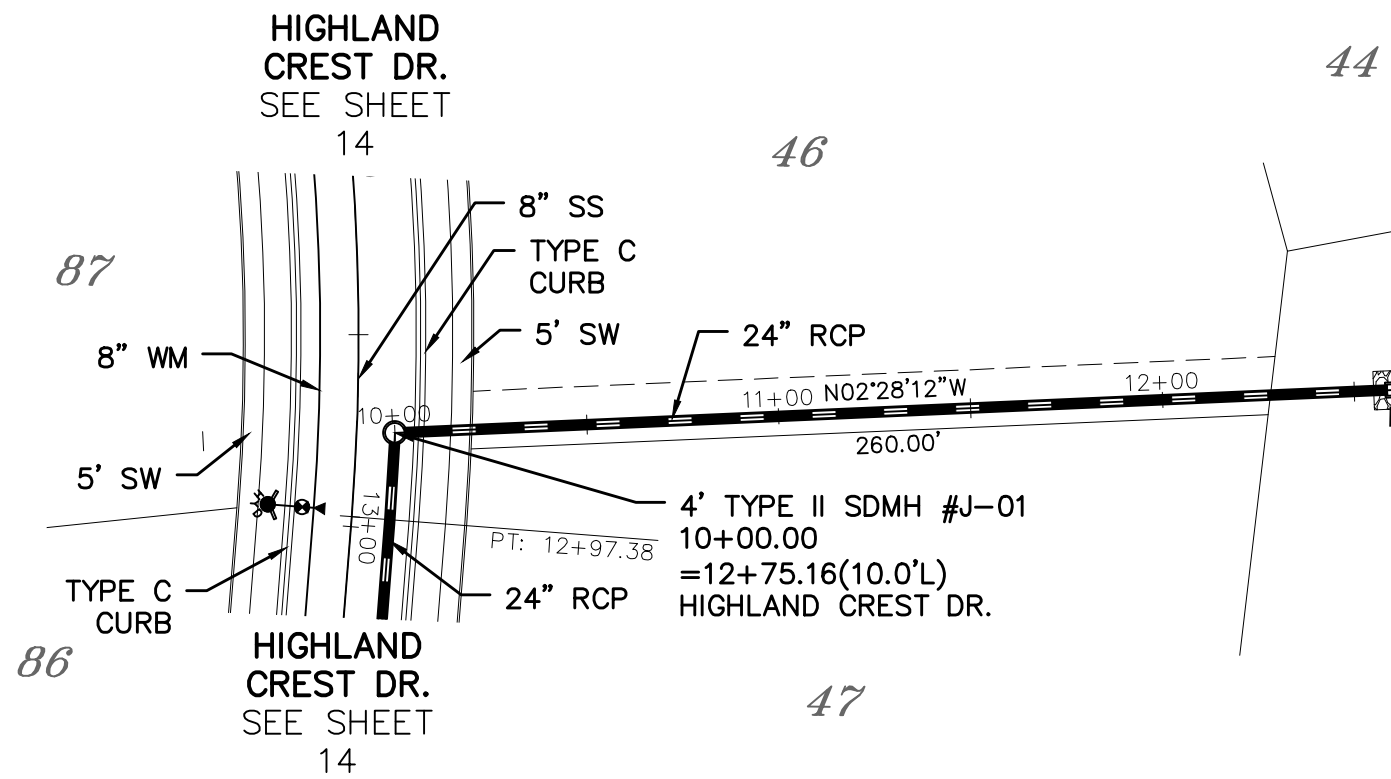
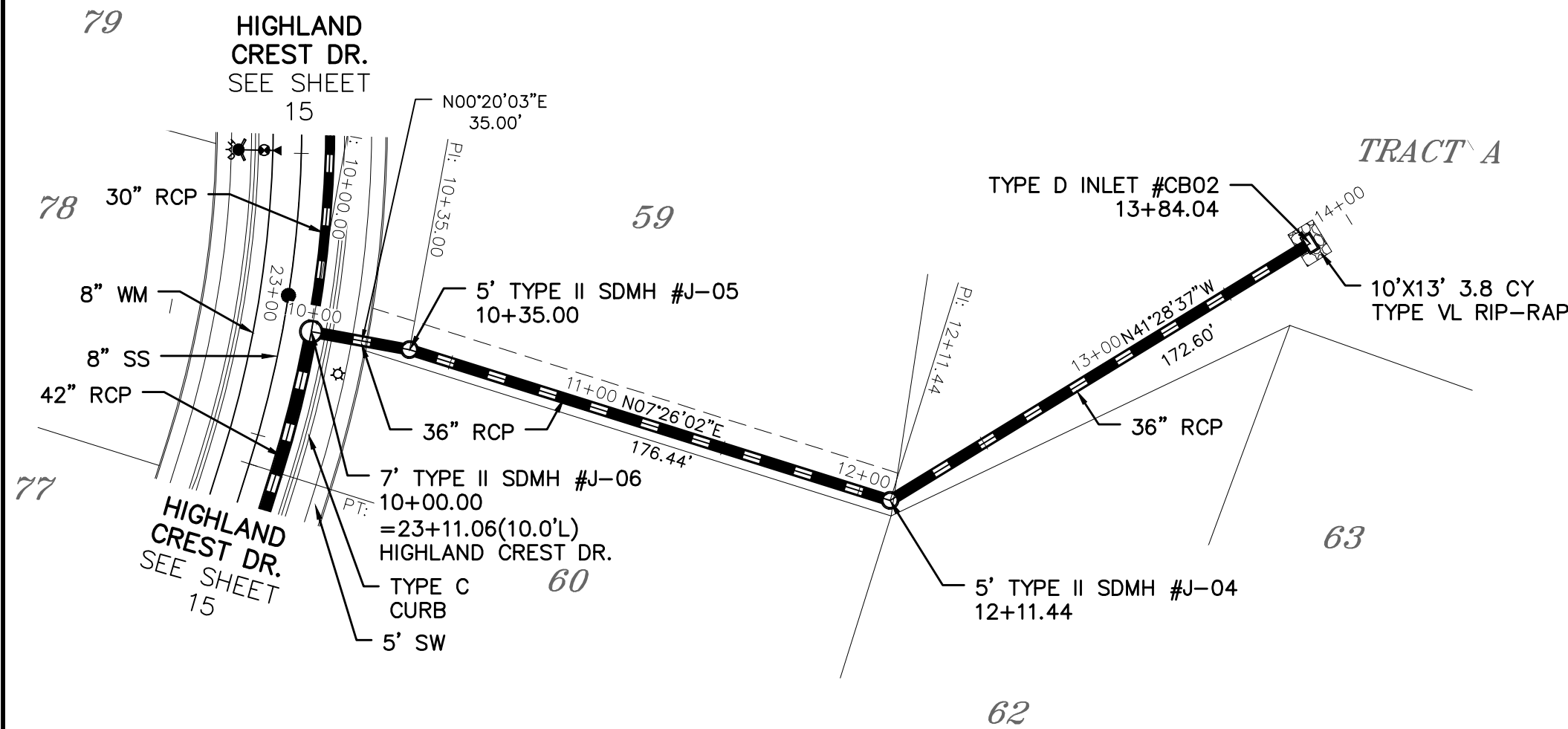
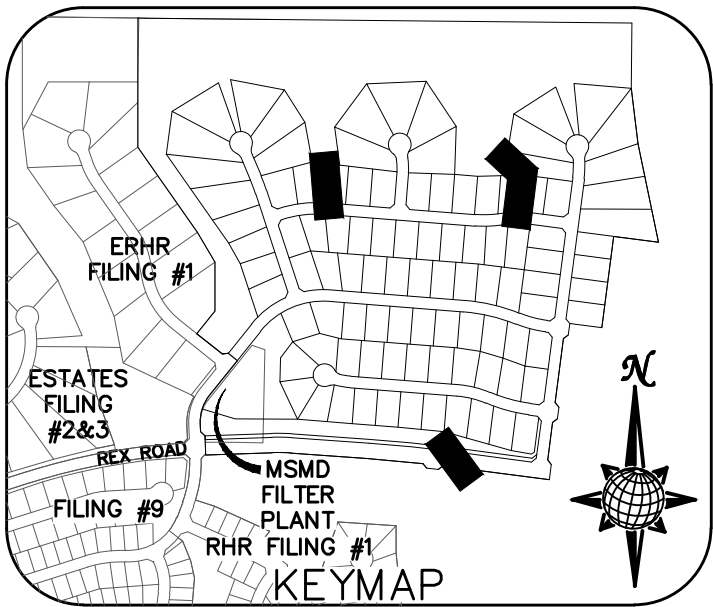
44

Date _____

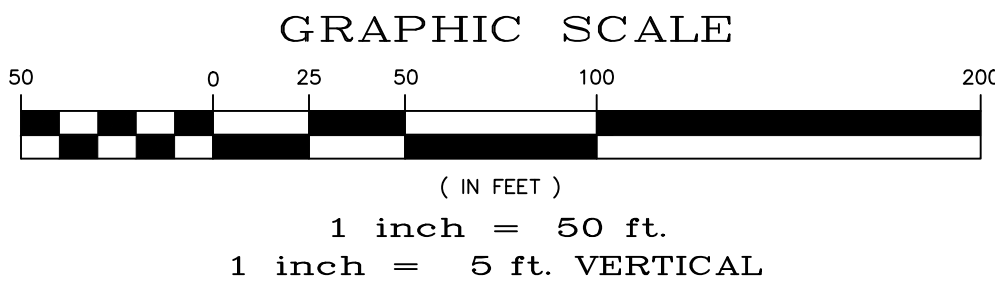




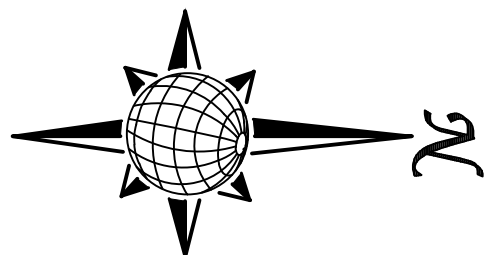
TWO WORKING DAYS
**BEFORE YOU DIG
CALL 811**
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)



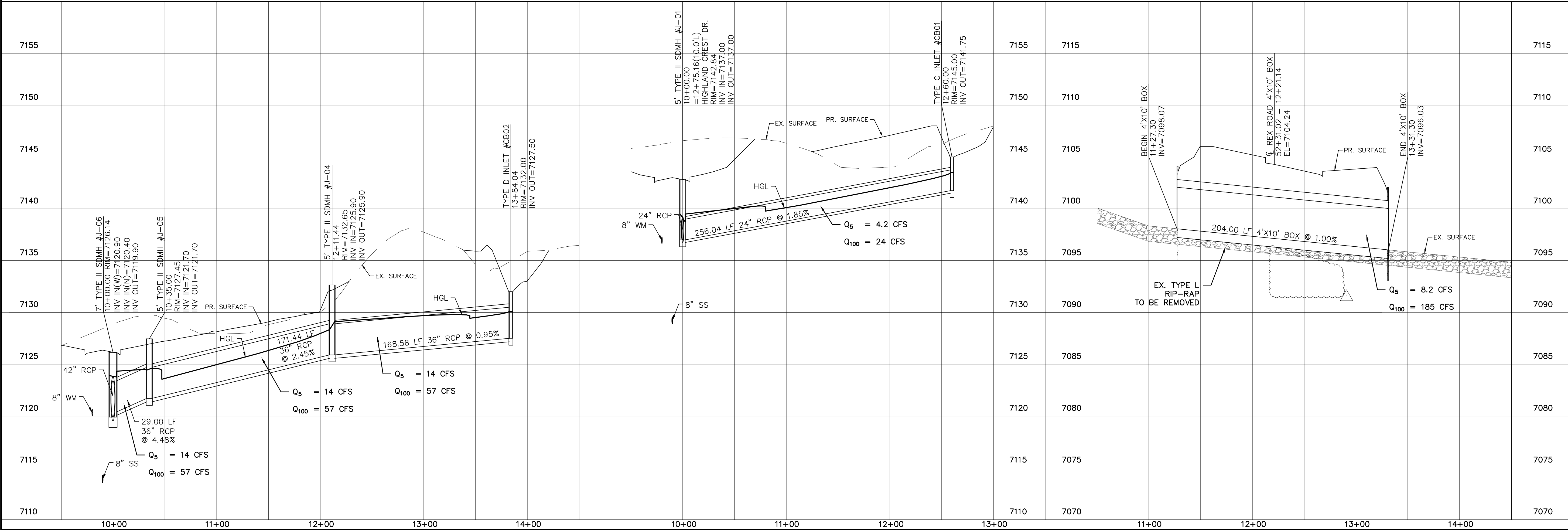
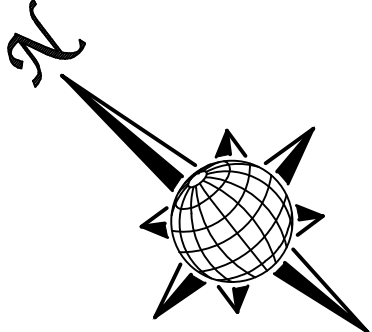
STORM #2



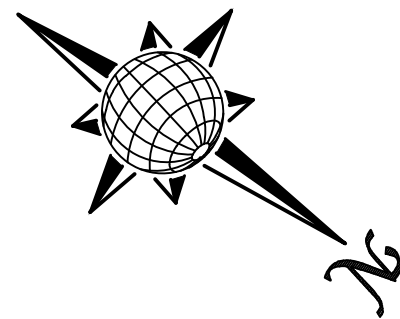
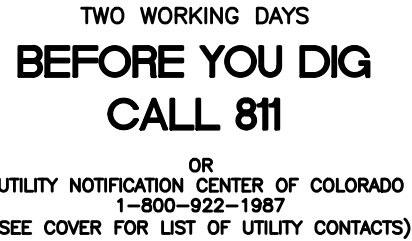
STORM #3



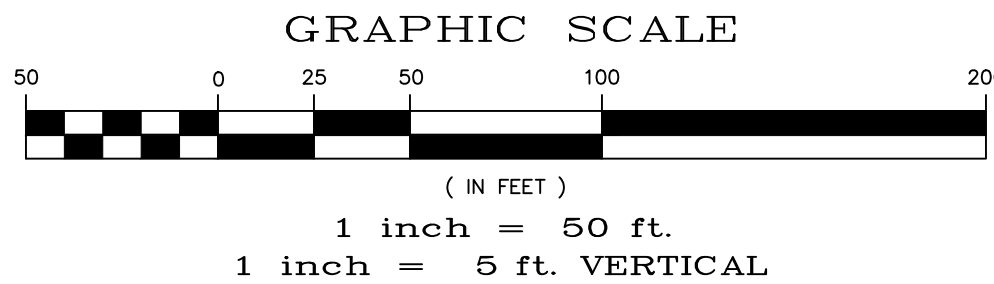
STORM #4



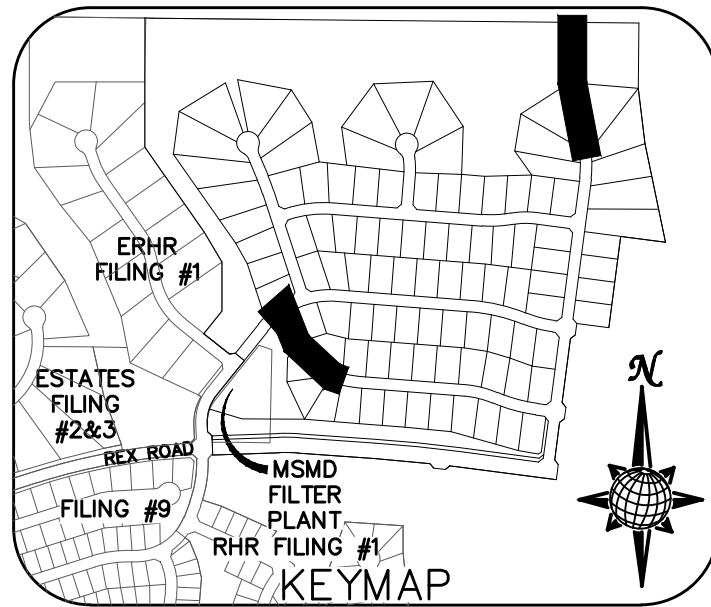
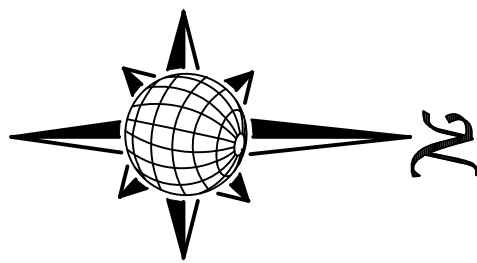
Scale		AS SHOWN		16 of 44		Drawn by LOG		THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS STORM #2 , STORM #3 + STORM #4		MERIDIAN RANCH		TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		1		LIGHT POLES SS SERVES WATER SERVES REX ROAD & 12" WM (S4 12.6, 7.8, 10.1, 12.1, 14.1, 16.2, 22.3, 24.2, 27.2, 28.3, 31.3, 34.3, 36.3)		9/13/2021		LOG					
						Checked by TAK								2		REVISE BOUNDARY LOT LINES FOR 67+3, ADD TRACT F		10/7/2021		LOG					
						Date		SEPT 2020						3											

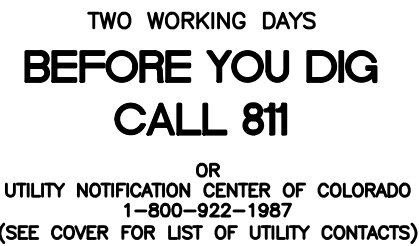


WM #1

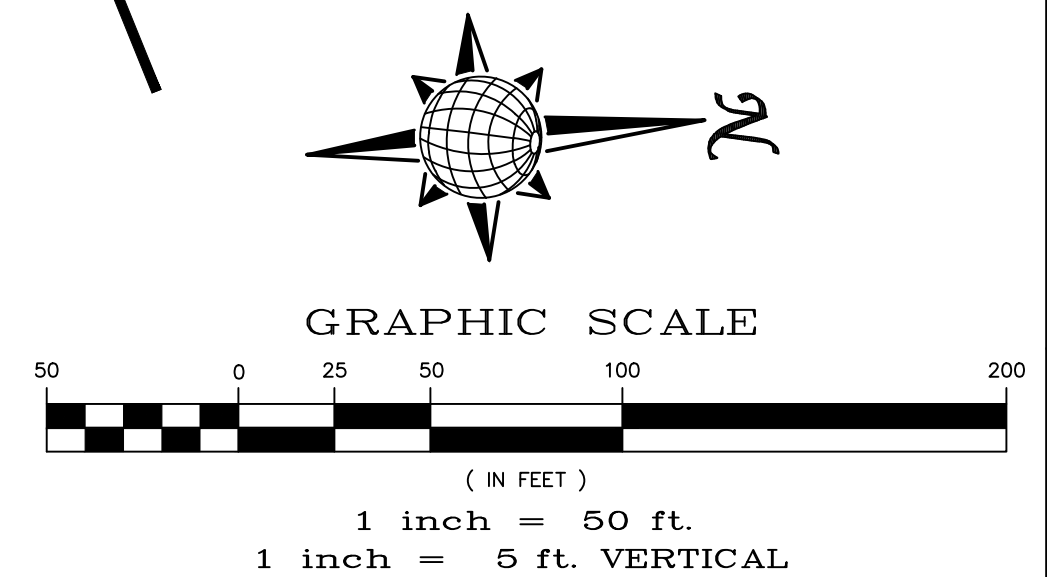
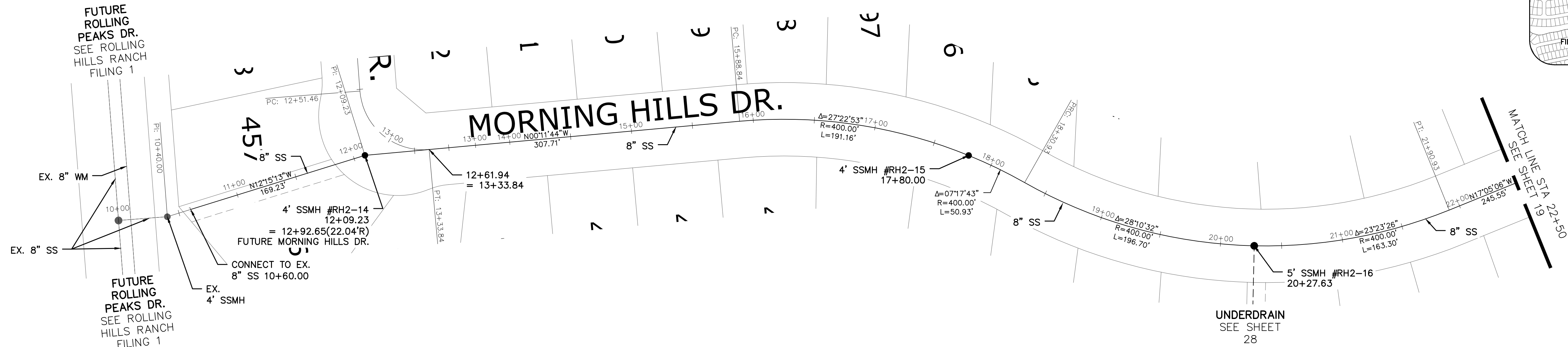
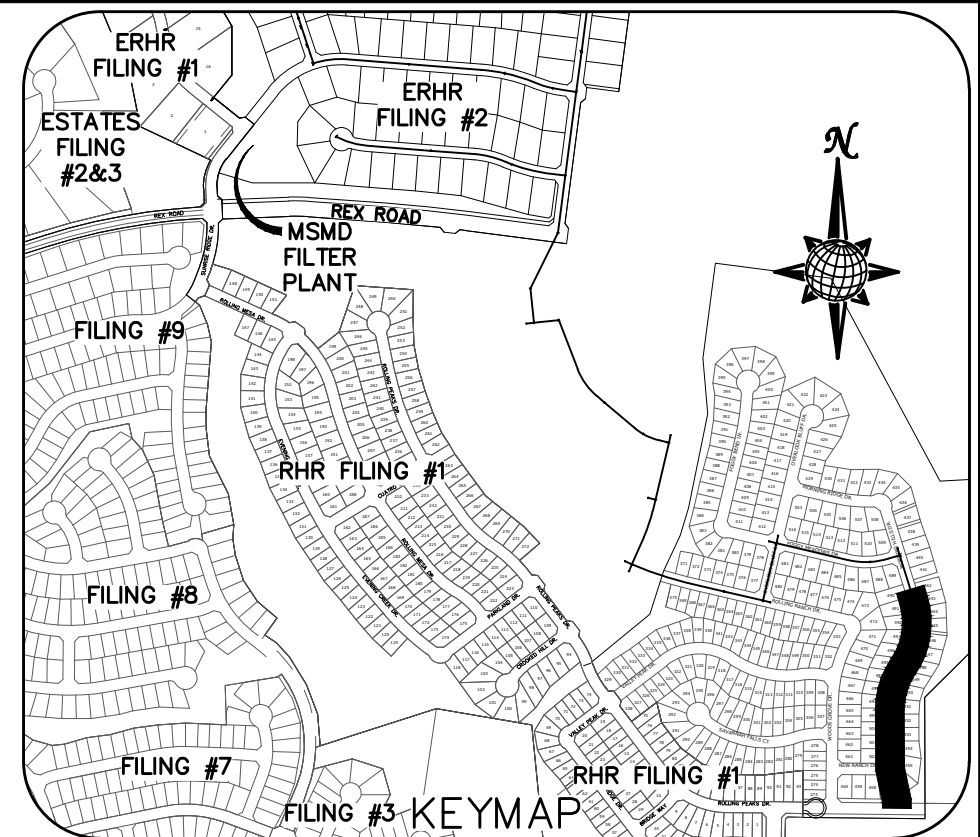


WM #2

PCD PROJECT NO. SF-20-018

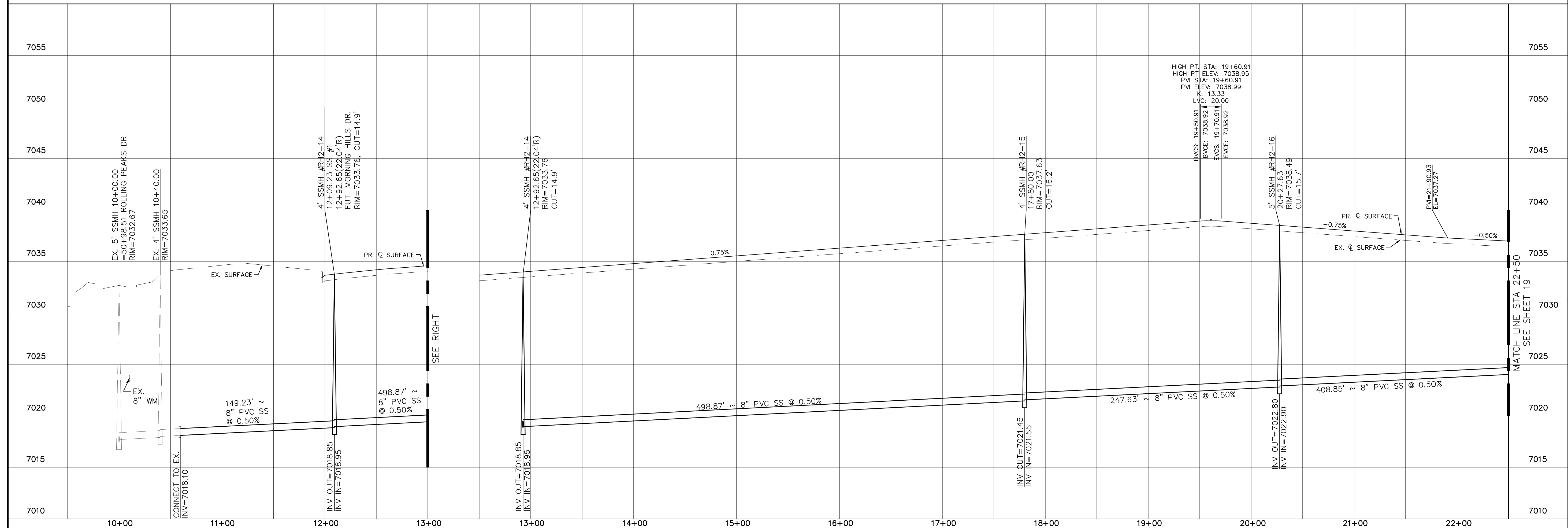


NOTE:
APPROVAL OF THESE PLANS DOES NOT CONSTITUTE
APPROVAL OF THE ROADWAY DESIGN AND PROFILES SHOWN.

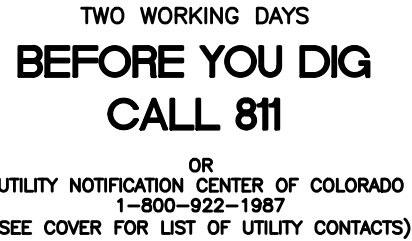


SS #1

FUT. MORNING HILLS DR.



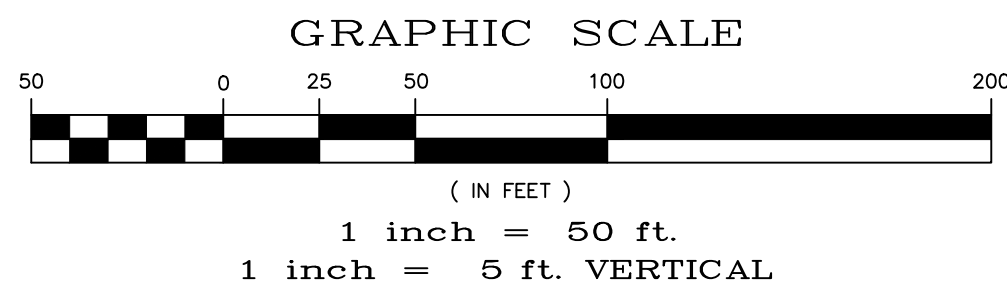
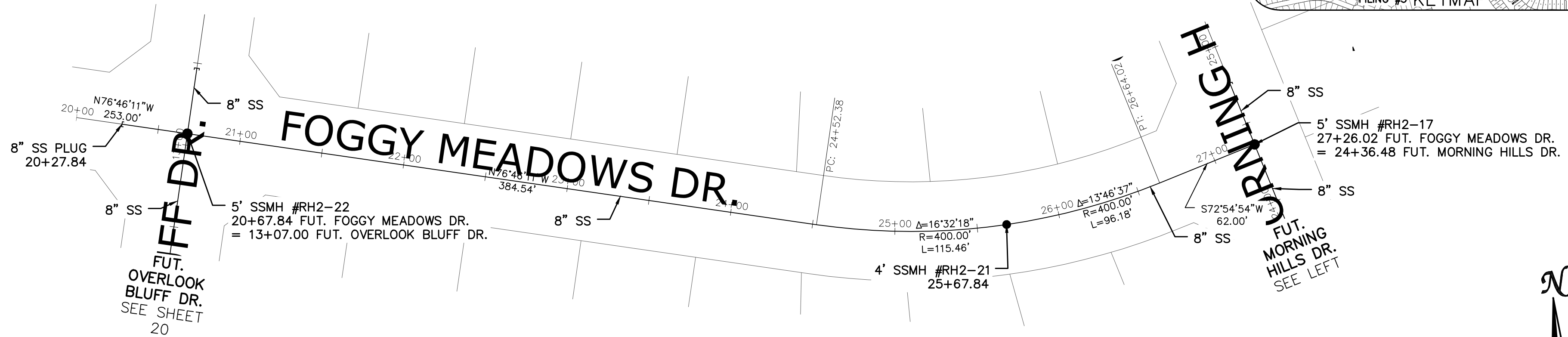
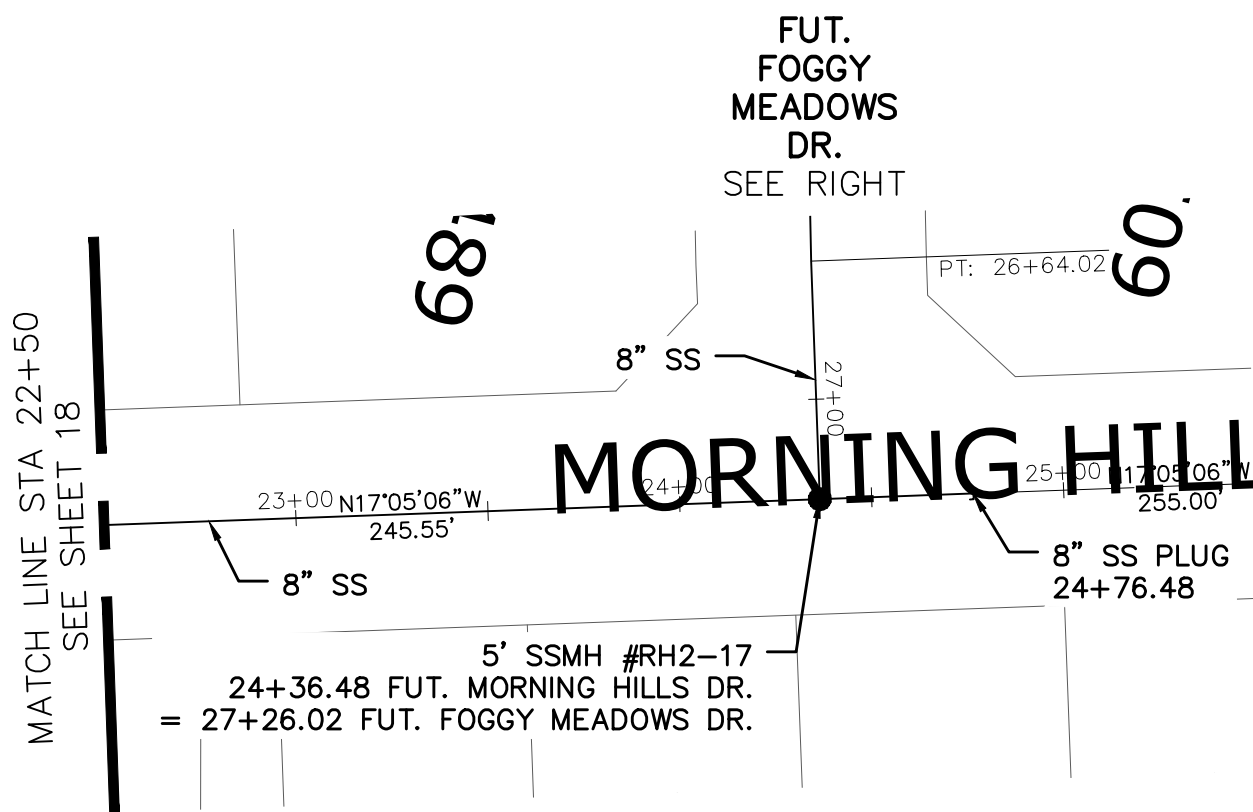
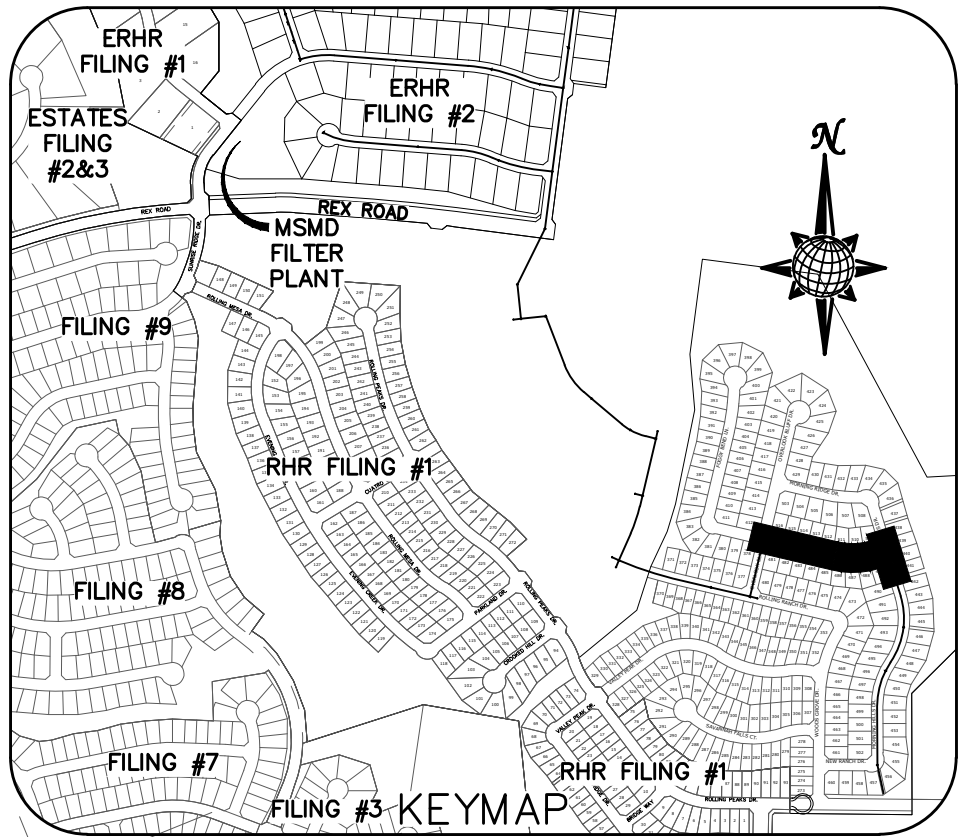
	Scale AS SHOWN	18 of 44	Drawn by LOG	THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS SS #1 + FUT. MORNING HILLS DR.	 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1	LIGHT POLES, SS SERVICEMEN WATER SERVICES, REK ROAD & 12" WM (SH: 1.2, 67.8, 9.10, 11.12, 14.15, 16, 22.23, 24, 26, 27, 28, 29, 30, 31, 34, 35, 36, 38)	9/13/2021	LOG		
							2	REVISE BOUNDARY, LOT LINES FOR 67-73, ADD TRACT F	10/7/2021	LOG		
							3					
							No.	Revisions	Date	Init.	Appr.	Date



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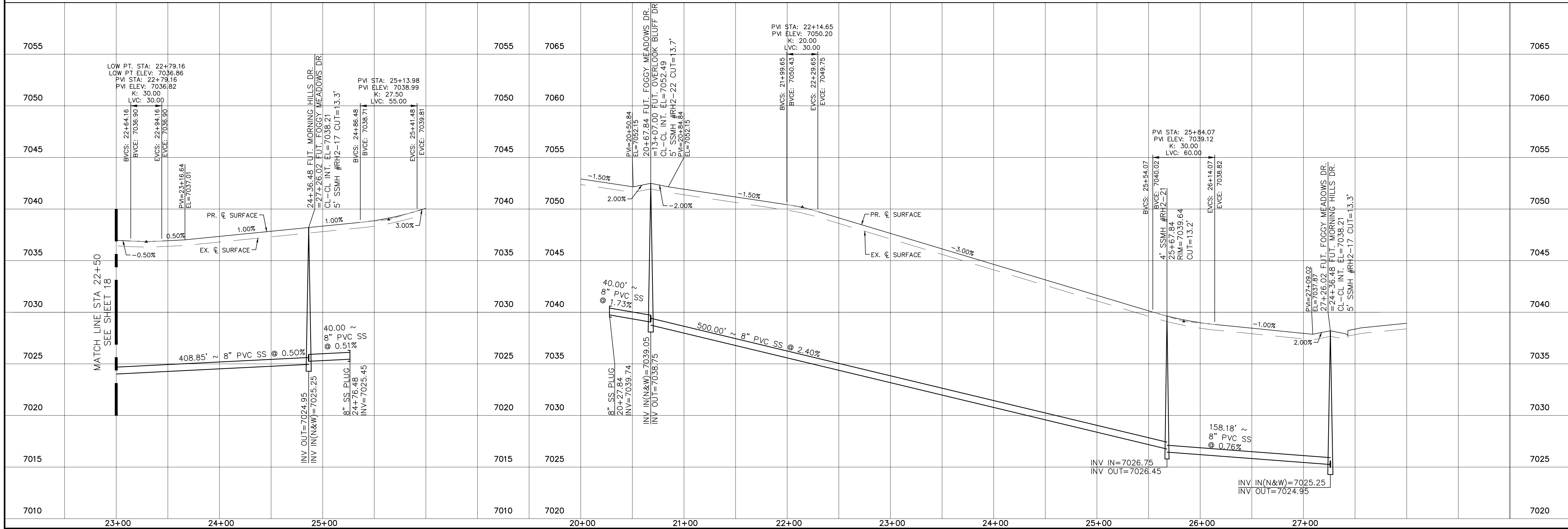
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)



NOTE:
APPROVAL OF THESE PLANS DOES NOT CONSTITUTE
APPROVAL OF THE ROADWAY DESIGN AND PROFILES SHOWN.

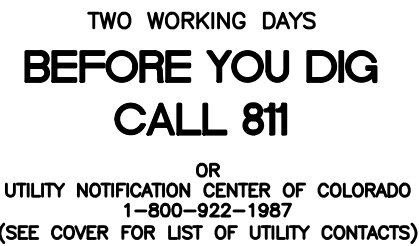


FUT. MORNING HILLS DR.

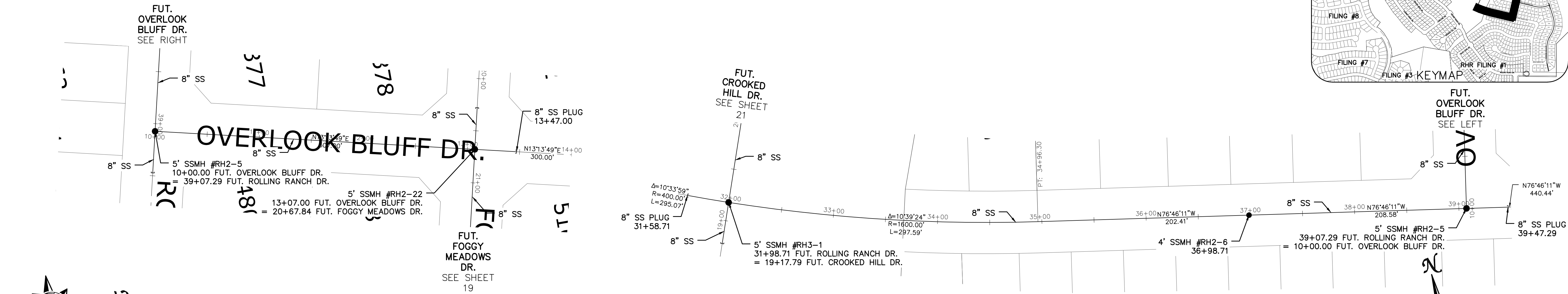
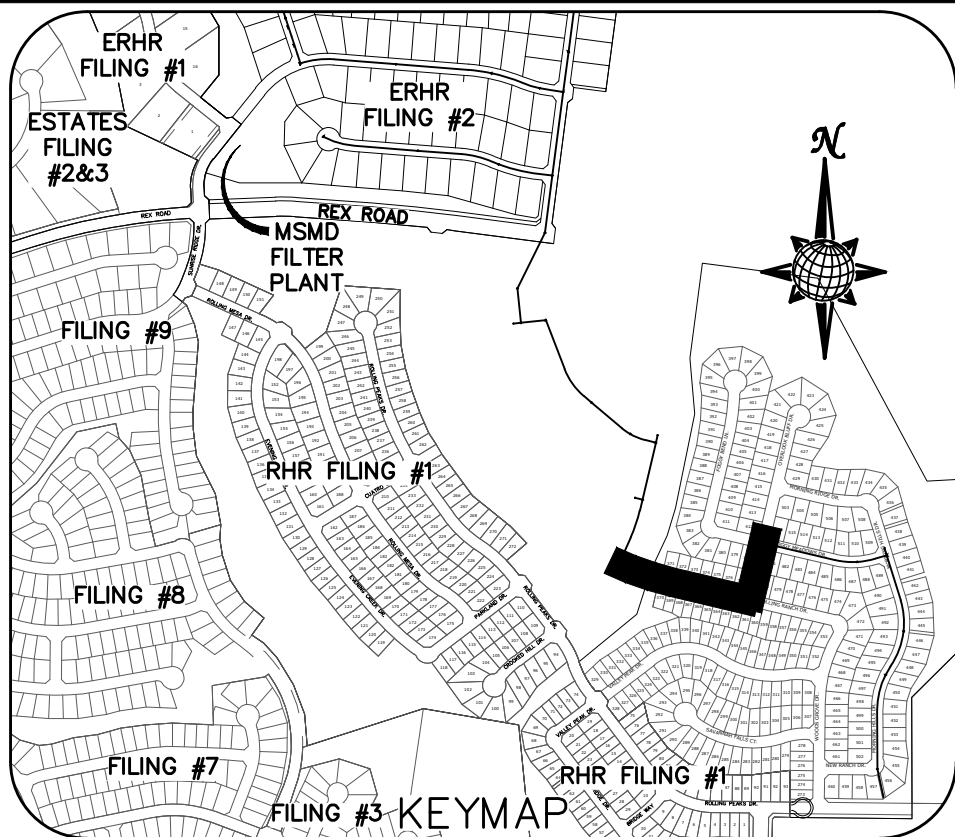
FUT. FOGGY MEADOWS DR.



	Scale AS SHOWN	19 of 44	Drawn by LCG	THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS FUT. MORNING HILLS DR.	 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1 LIGHT POLES, SS SERVICIES, WATER SERVICES, REX ROAD & 12" WM (SH: 1,2,7,8,9,10,11,12,14,15,16,22,23,24,26,27,28,30,31,34,35,36,38)	9/13/2021	LCG	Date 9/13/2021	Invt. Date	Appr. Date			
													Checked by TJK	2 REVISE BOUNDARY, LOT LINES FOR 67-73, ADD TRACT F	LCG
													Date SEPT 2020	No. Revisions	




NOTE:
APPROVAL OF THESE PLANS DOES NOT CONSTITUTE
APPROVAL OF THE ROADWAY DESIGN AND PROFILES SHOWN.



GRAPHIC SCALE

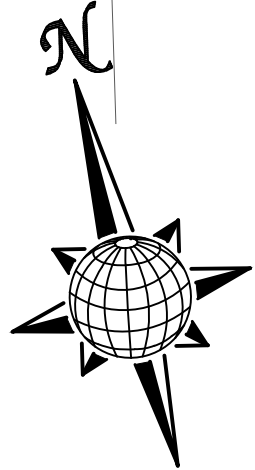
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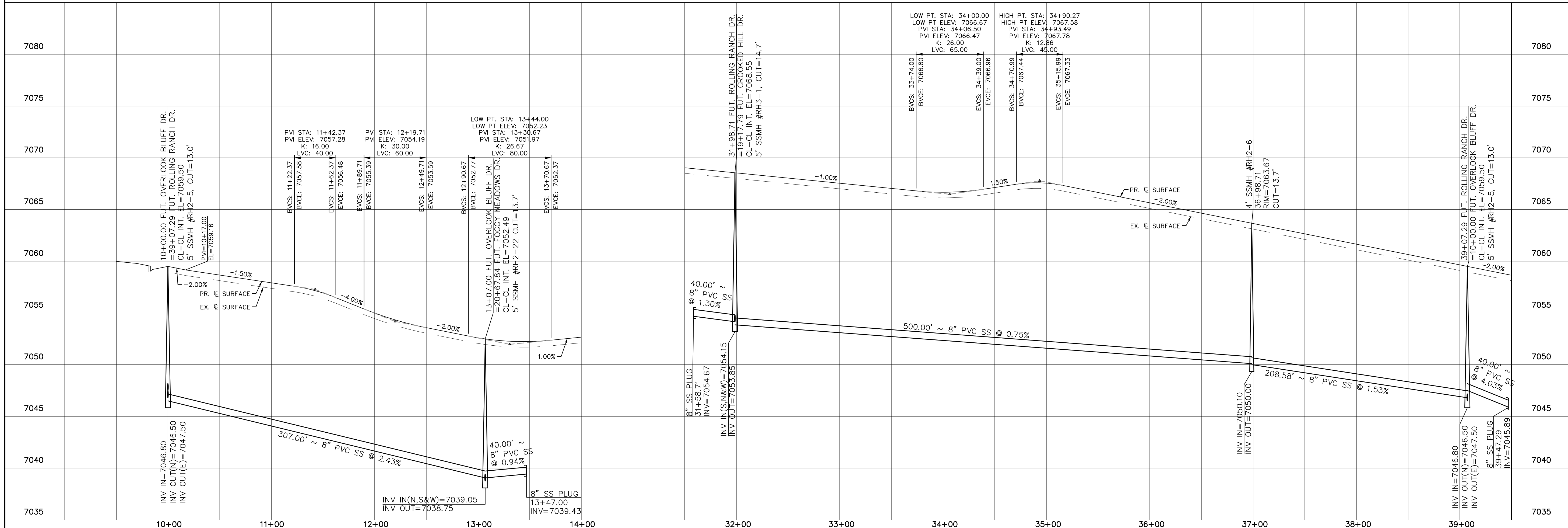
(IN FEET)

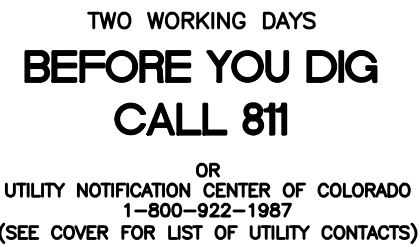
1 inch = 50 ft.

1 inch = 5 ft. VERTICAL

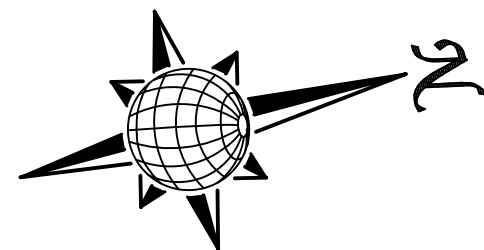
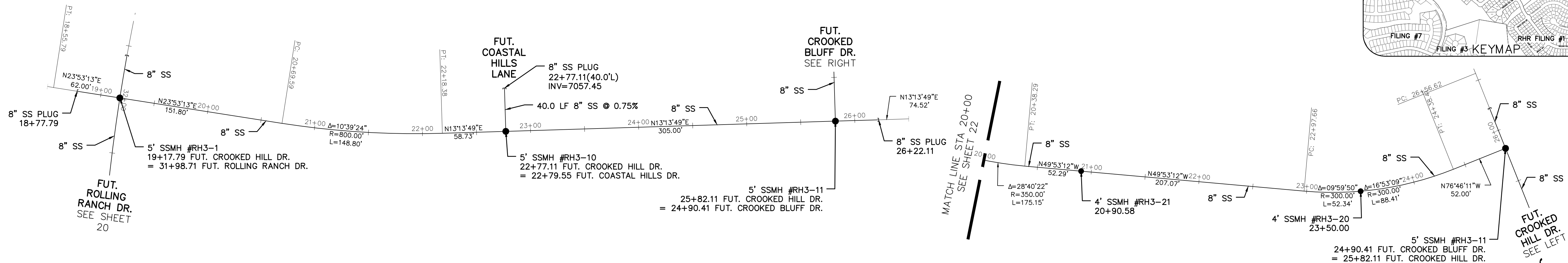
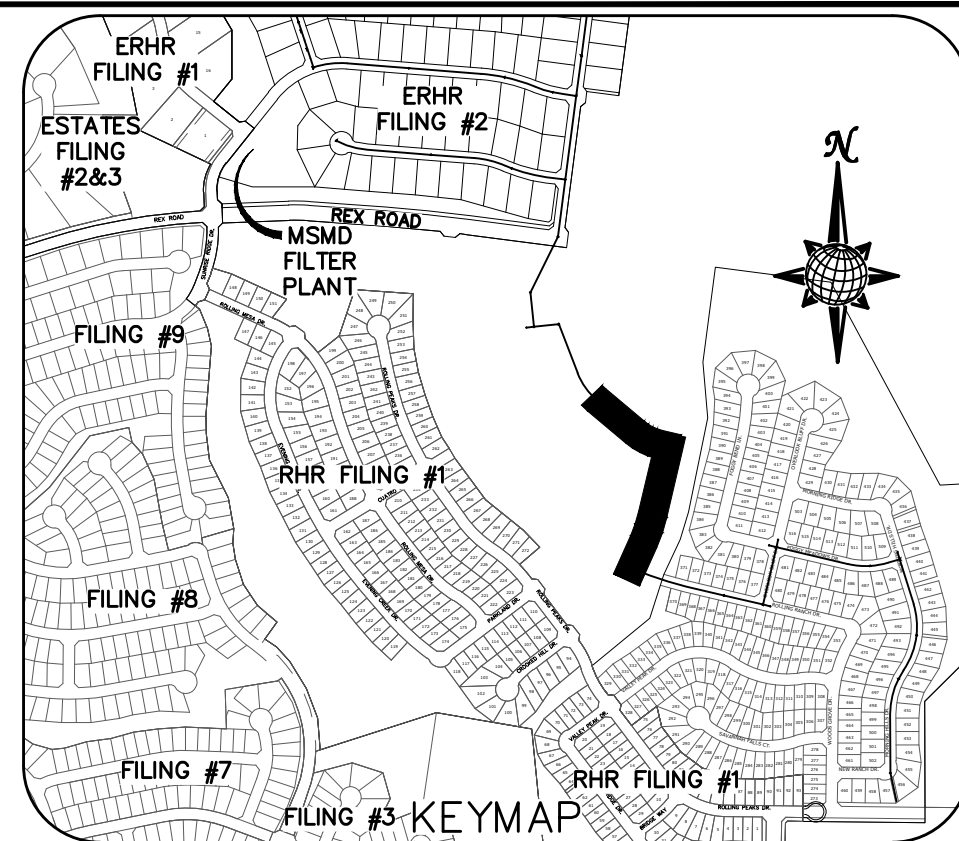


	Scale	AS SHOWN	<i>Drawn by</i> <i>Checked by</i> <i>Date</i>	THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS FUT. OVERLOOK BLUFF DR. + FUT. ROLLING RANCH DR.	 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1	LIGHT POLES, SS SERVICIES, WATER SERVICES, REY ROAD & 12" WM (SH:1,2,3,7,8,9,10,11,12,14,15,16,22,23,24,26,27,28,29,30,31,34,35,36,38)	9/13/2021	LOG		
	20 of 44	2					REVISE BOUNDARY, LOT LINES FOR 67-73, ADD TRACT F	10/7/2021	LOG			
		3										
							No.	Revisions	Date	Init.	Appr.	Date

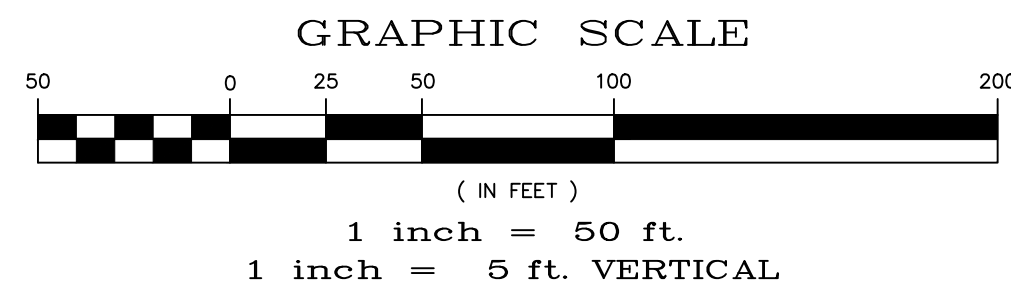




NOTE:
APPROVAL OF THESE PLANS DOES NOT CONSTITUTE
APPROVAL OF THE ROADWAY DESIGN AND PROFILES SHOWN.





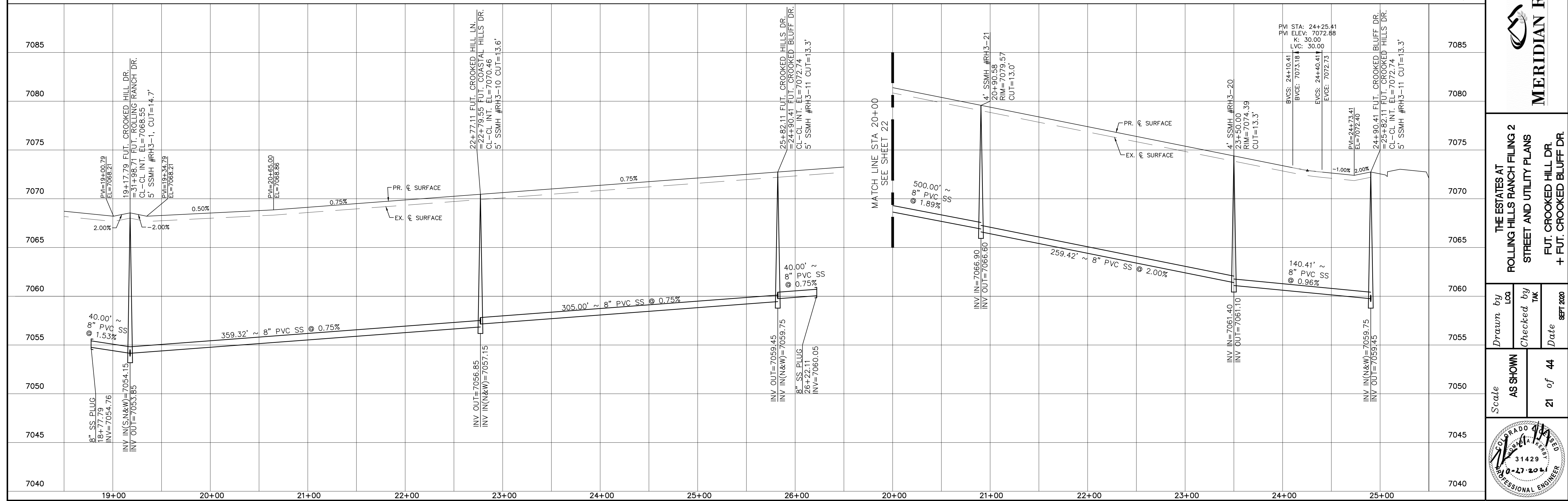
FUT. CROOKED HILL DR.

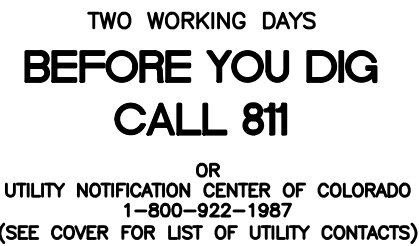


FUT. CROOKED BLUFF DR.

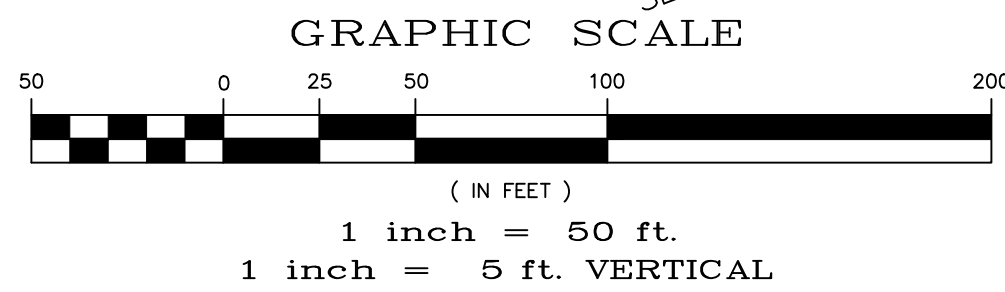
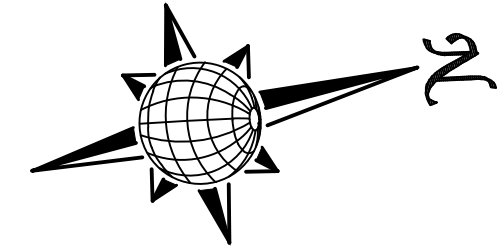
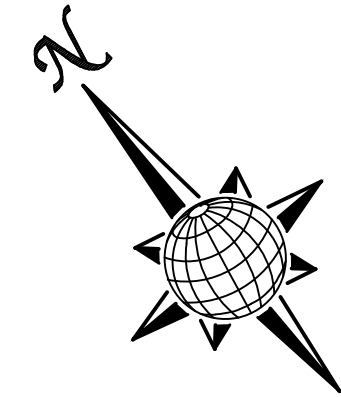
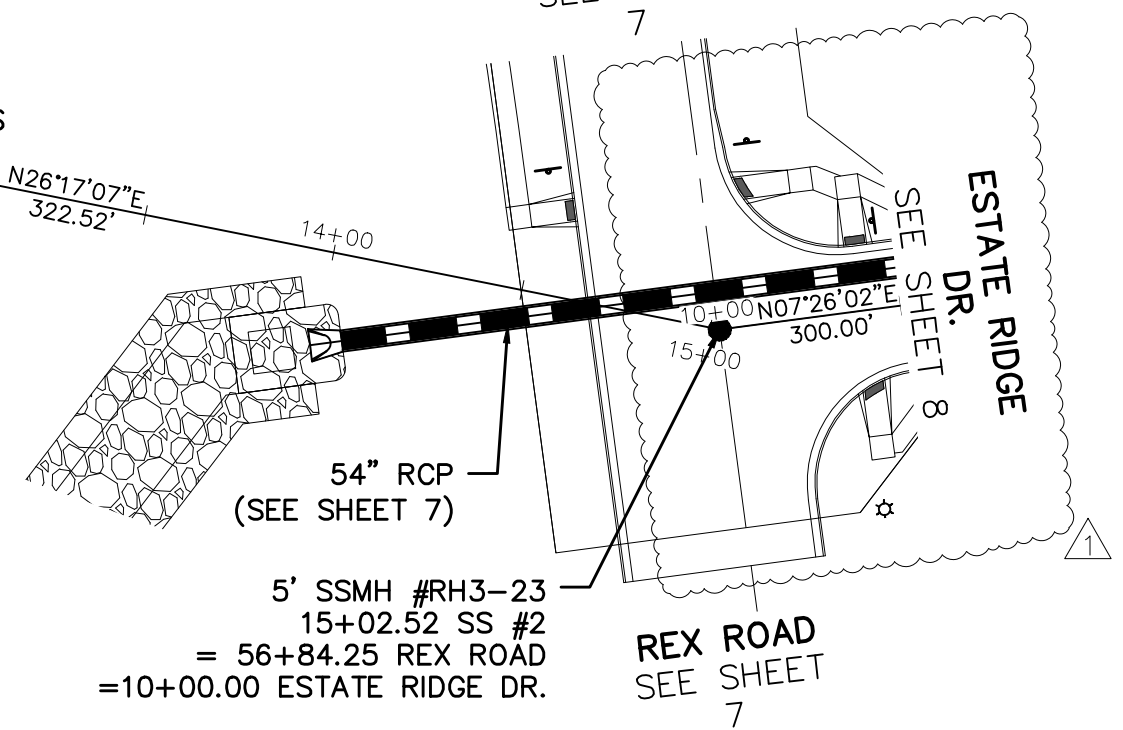
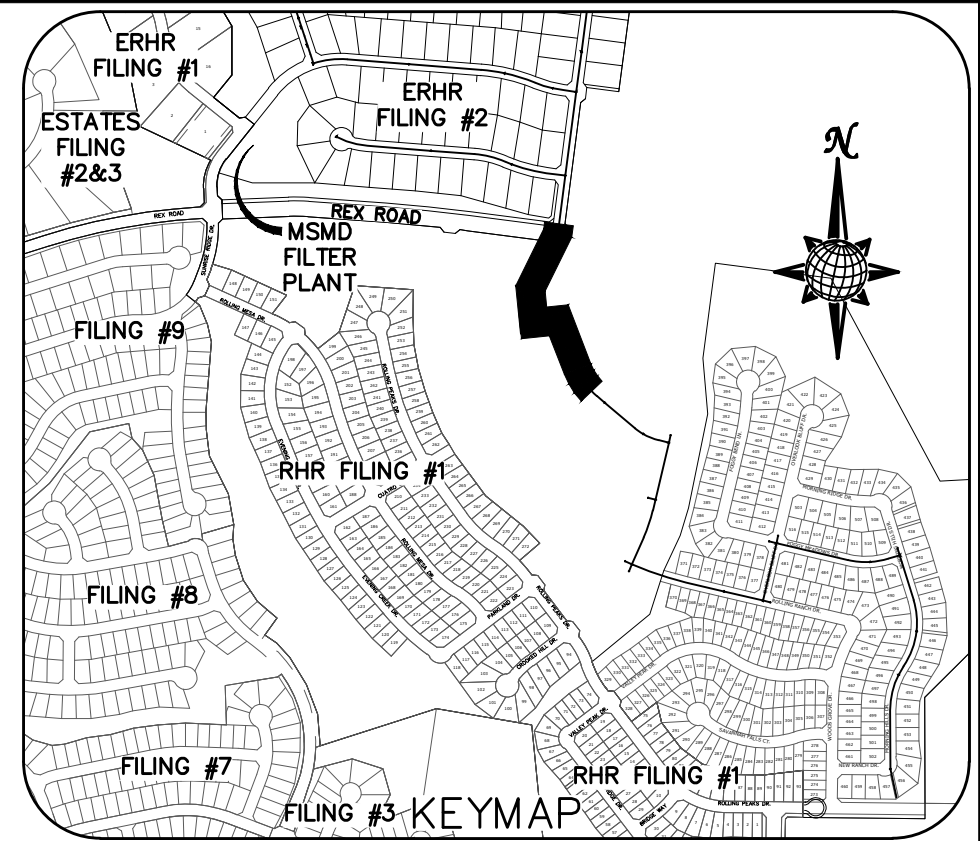


<div></div>	Scale	AS SHOWN		Drawn by	Log		THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS		<div> MERIDIAN RANCH</div>	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831		1	LIGHT POLES, SS SERPENTINES, WATER SERVICES, REY ROAD & 17" MM (SH 1, 2.5, 7.8, 9.1, 11, 12, 14, 15, 16, 22, 23, 24, 26, 27, 28, 30, 31, 34, 35, 36, 38)		9/13/2021	LOG		
				Checked by	TAK		FUT. CROOKED HILL DR. + FUT. CROOKED BLUFF DR.					2	REVISE BOUNDARY LOT LINES FOR 6P-7S, ADD TRACT F		10/7/2021	LOG		
				Date	SEPT 2020							3						
		21 of 44																
										TELEPHONE: 719.495.7444 FAX: 719.495.2457		No.	Revisions		Date	Invt.	Appr.	Date



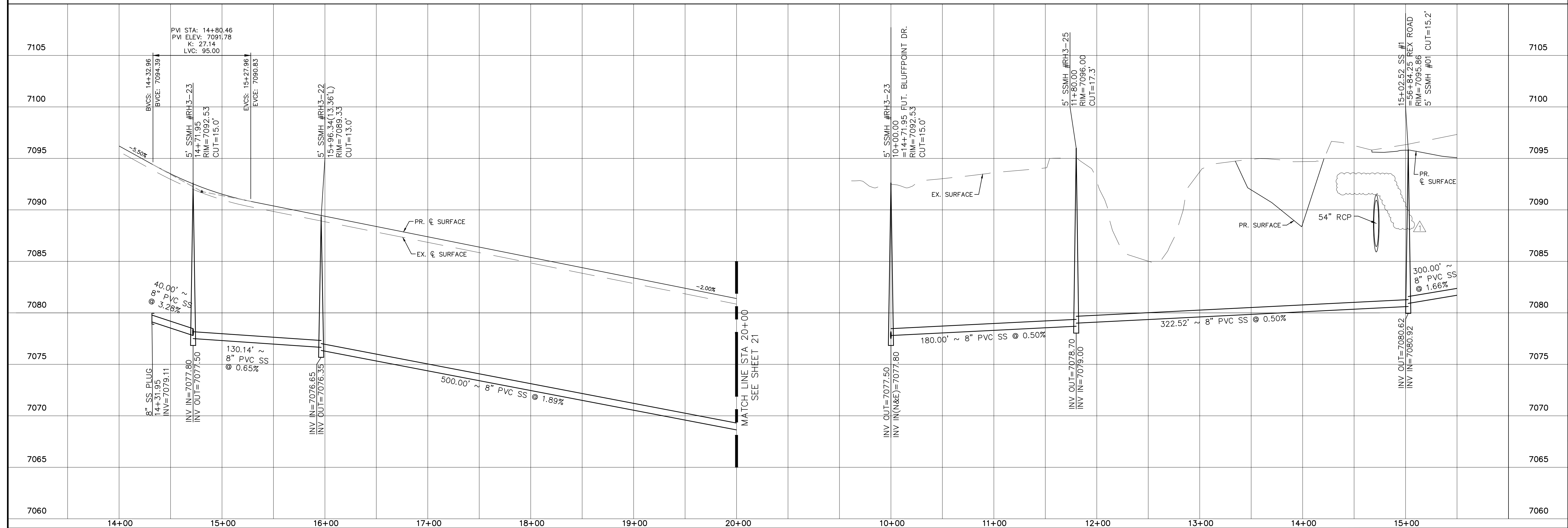




NOTE:
APPROVAL OF THESE PLANS DOES NOT CONSTITUTE
APPROVAL OF THE ROADWAY DESIGN AND PROFILES SHOWN.

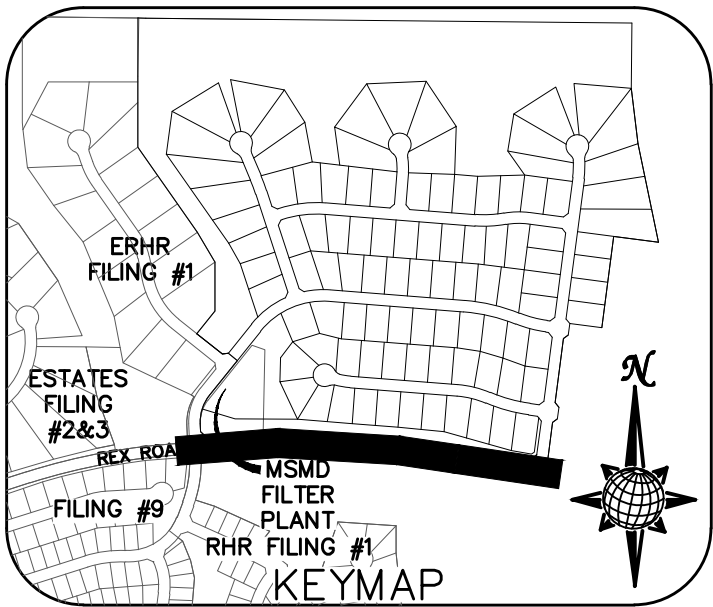


FUT. CROOKED BLUFF DR.

SS #2



	Scale AS SHOWN	Drawn by LOG	THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS FUT. CROOKED BLUFF DR. + SS #2	 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1	LIGHT POLES, SS SERVICES, WATER SERVICES, REX ROAD & 12" WM (SH 12.67, 8.01, 11.12, 14.15, 16.22, 23.24, 26.27, 28.29, 30.31, 34, 35, 36, 38)	9/3/2021	LOG		
		Checked by TAK				2	REVISE BOUNDARY, LOT LINES FOR 67-73, ADD TRACT F	10/7/2021	LCG		
	22 of 44	Date SEPT 2020				3					
						No.	Revisions	Date	Invt.	Appr.	Date

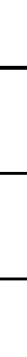



1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT 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. WITH THE SAME ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS"
8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.
12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.



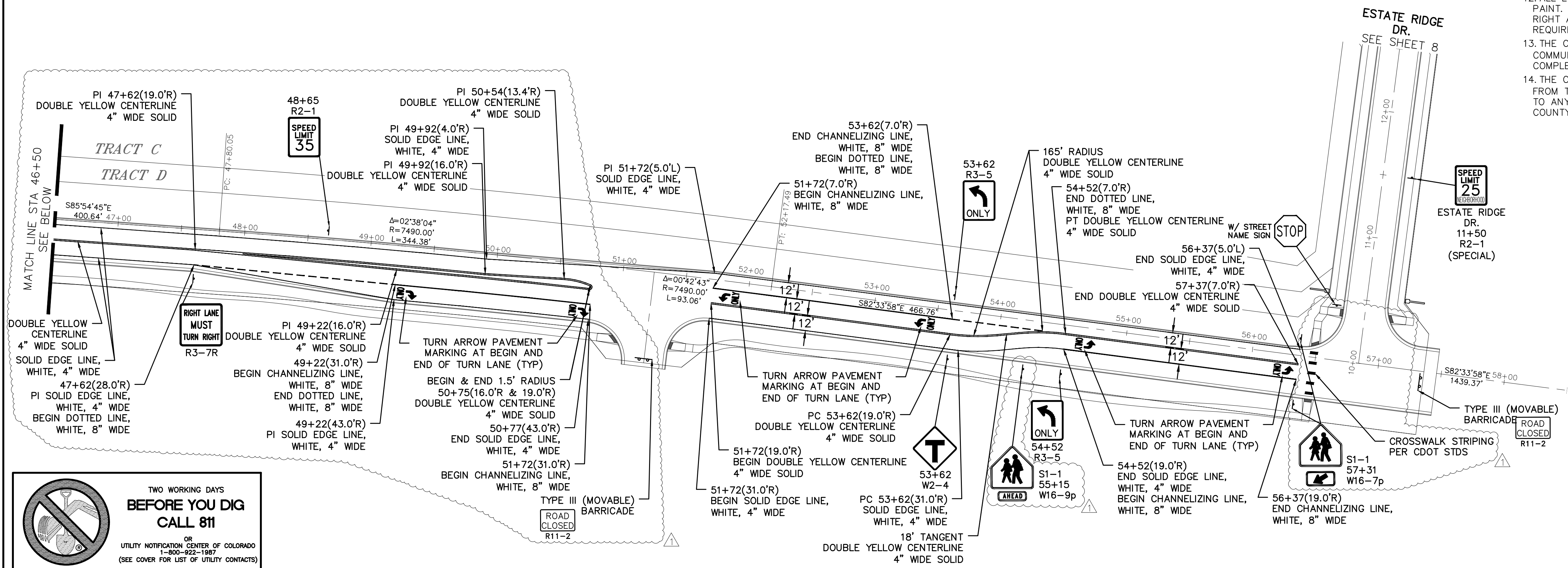
Age Group	Percentage
18-24	50%
25-34	0%
35-44	25%
45-54	50%
55-64	100%
65-74	200%
75-84	200%
85+	200%

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

	Scale AS SHOWN	<i>Drawn by</i> LOG	THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS SIGNAGE AND STRIPING	 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1	LIGHT POLES, SS SERVES WATER SERVICES, REX ROAD & 12" MM (SH 12.67.83.9; 10.11.24.14; 15.16.22.23.24.26.27.28.29.30.31.34.35.36.38)	LOG	9/13/2021		
	23 of 44	<i>Checked by</i> TAK				2	REVISE BOUNDARY LOT LINES FOR 67-73, ADD TRACT F	LOG	10/7/2021		
		<i>Date</i> SEPT 2020				3					
						No.	Revisions	Date	Appr.	Date	


CD PROJECT NO. SF-20-018

TEMP. MINOR ARTERIAL
80' WIDE RIGHT OF WAY, 31' WIDE ASPHALT PAVEMENT (EDGE TO EDGE)



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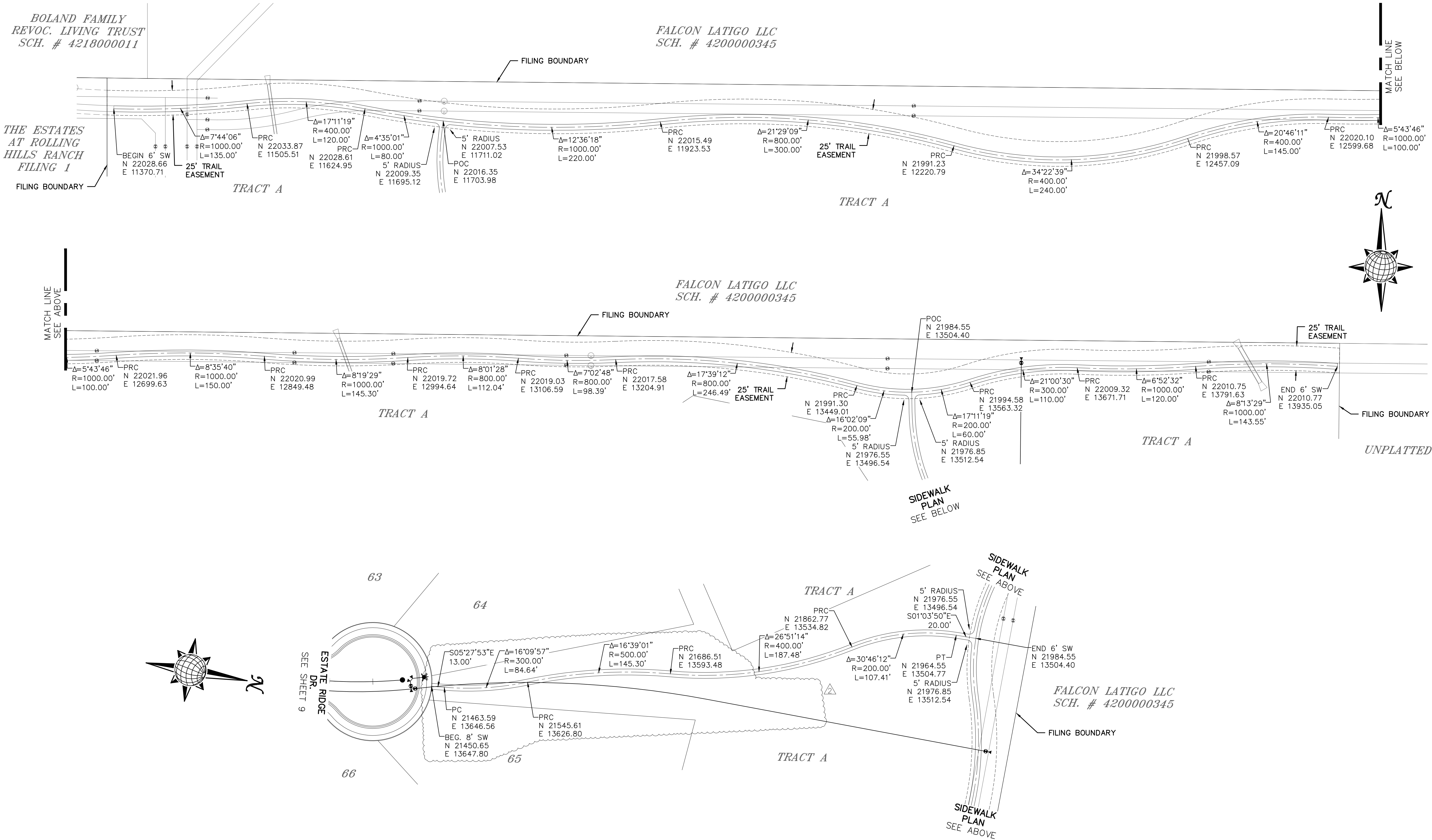
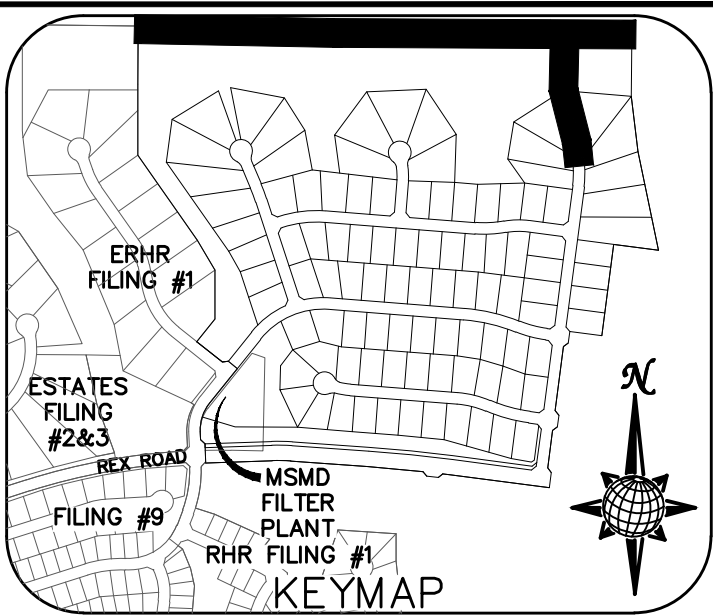
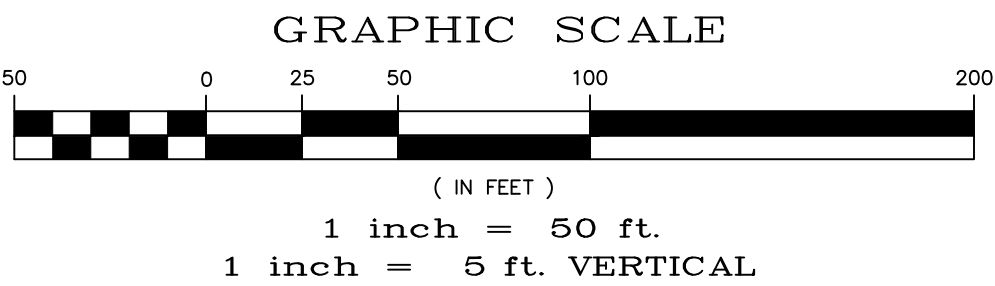





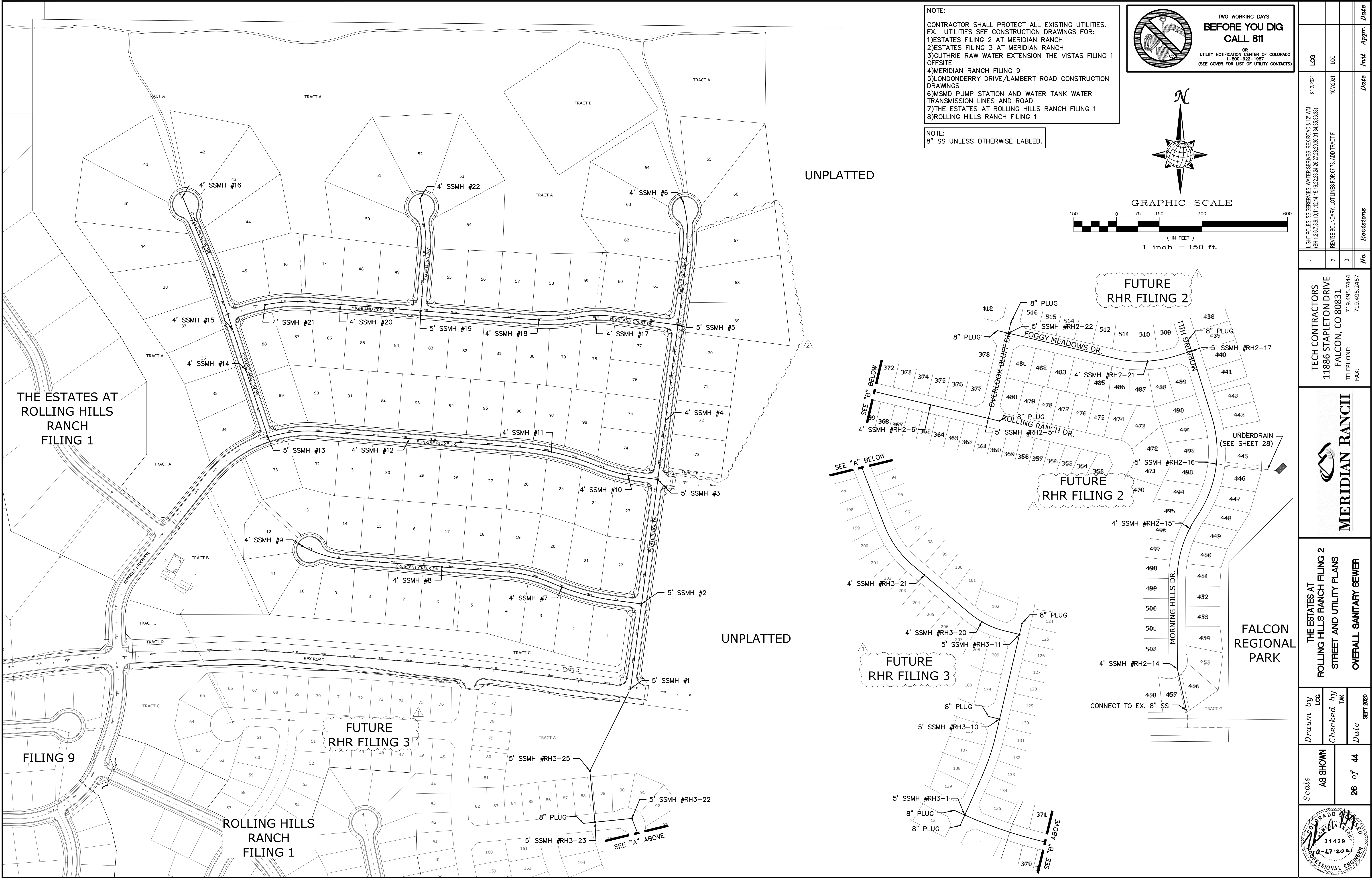
TWO WORKING DAYS
BEFORE YOU DIG
CALL 811

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

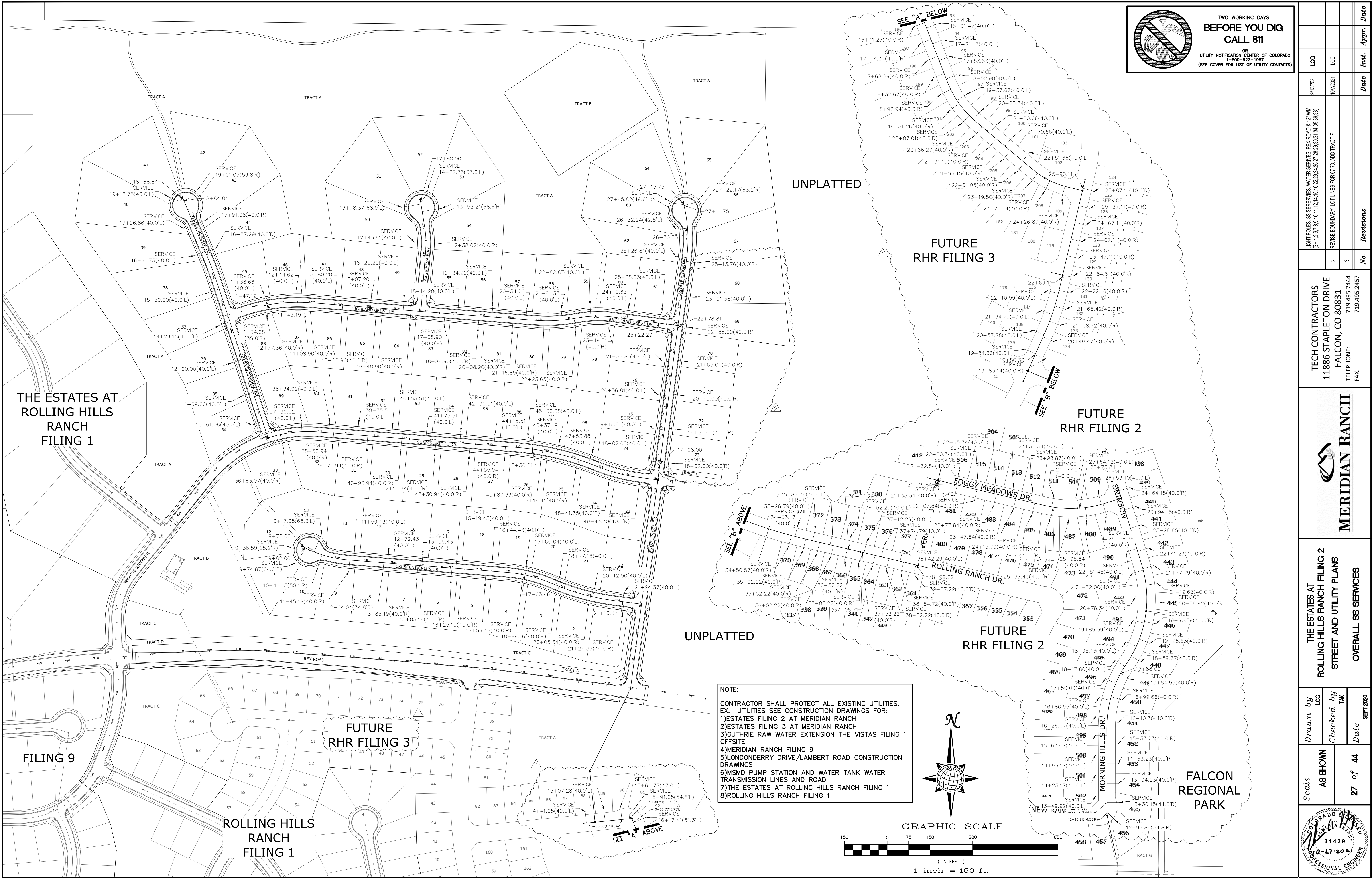
6' SIDEWALK PLAN




Log		Date		Date	
9/13/2021		10/7/2021		10/7/2021	
LIGHT POLES SS SEREVIES WATER SERVICES REX ROAD & 12' WM (S4 12.67 8.9 10.11 12.14 15.16 22.23 24.26 27.28 30.31 34.35 36.38)		REVISE BOUNDARY, LOT LINES FOR 67'73, ADD TRACT F		REVISEMENTS	
1		2		3	
No.		No.		No.	
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE 719.495.7444 FAX 719.495.2457					
MERIDIAN RANCH					
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS SIDEWALK PLAN					
Drawn by	Log	Checked by	TAK	Date	SEP 2020
AS SHOWN				25	of 44
					



S:\OneDrive\Civil\Proj\Estates at Rolling Hills Filing 2\DWG\PLAN SHEETS\IMPROVEMENT PLANS\03-EPH2.dwg, 11/8/2021 9:20:51 AM





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	27 of 44	Drawn by LOG	THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS	 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1	LIGHT POLES, SS SERVES, WATER SERVICES, REX ROAD & 12' W/M (S&H 12.6, 7.8, 9.1, 11.12, 14.15, 16.22, 23.24, 26.27, 28.30, 31.34, 35.36, 38)		9/3/2021	LOG	Date	Invt.	Appr.	Date		
				Checked by TAK	OVERALL SS SERVICES			2	REVISE BOUNDARY, LOT LINES FOR 67-73, ADD TRACT F		10/7/2021	LOG						
				Date				3										



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

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



TWO WORKING DAYS

BEFORE YOU DIG

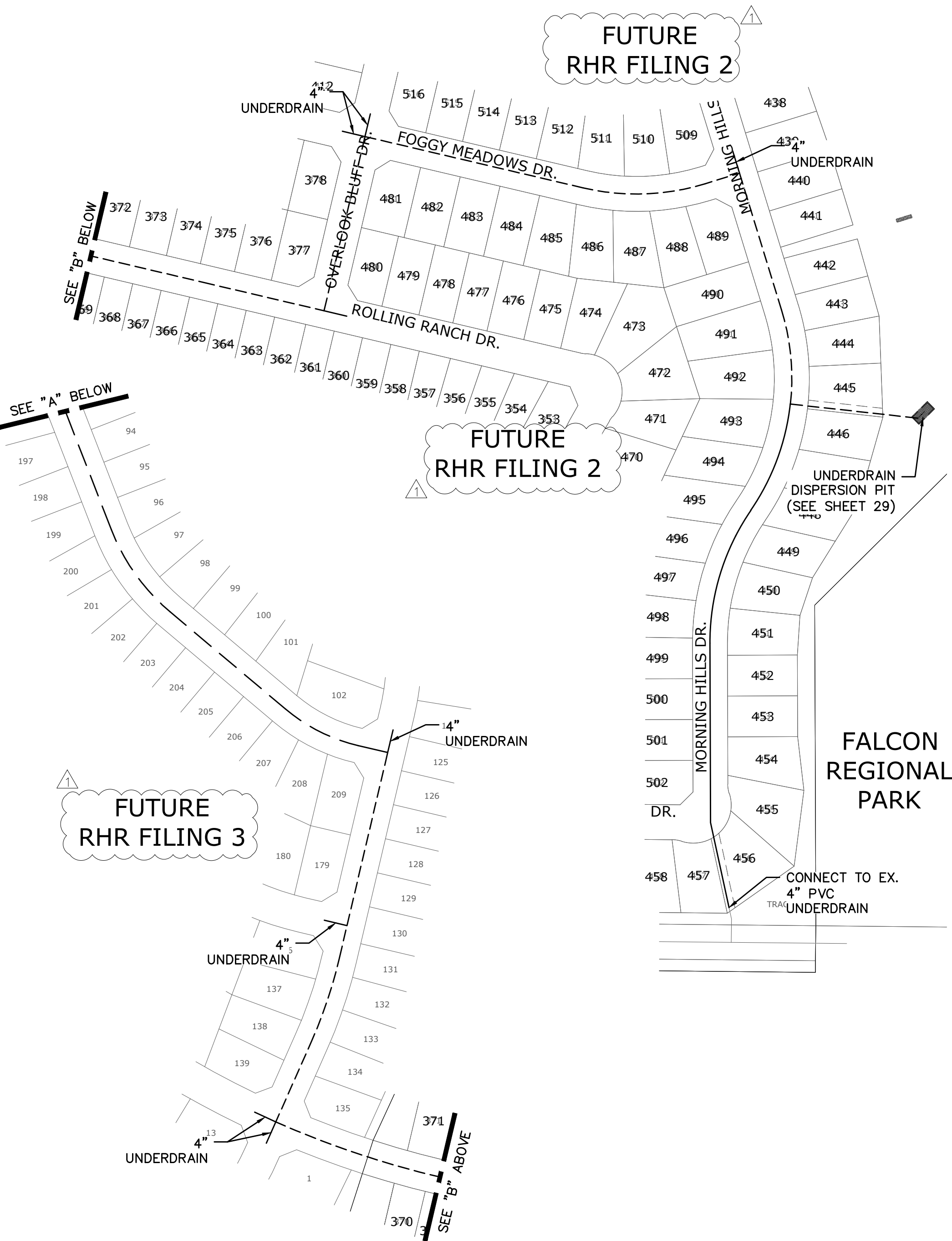
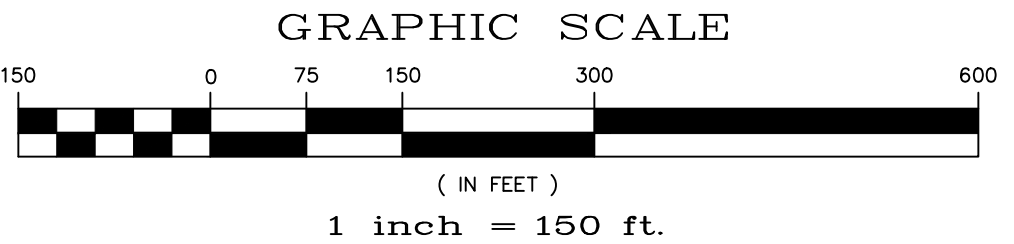
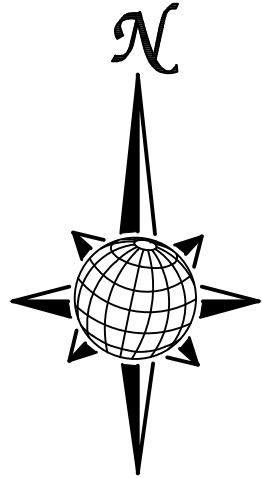
CALL 811


OR

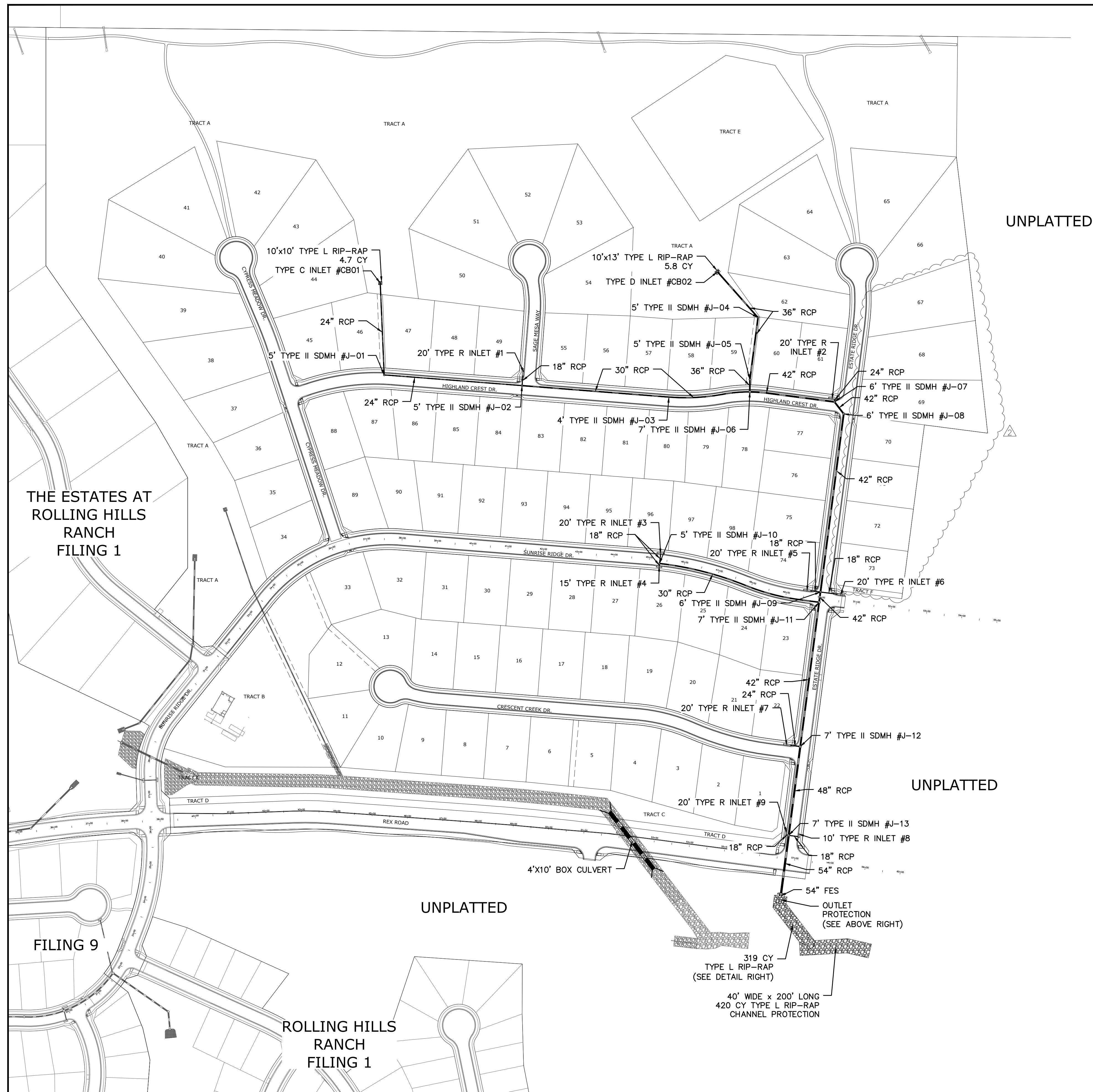
UTILITY NOTIFICATION CENTER OF COLORADO

1-800-922-1987

(SEE COVER FOR LIST OF UTILITY CONTACTS)



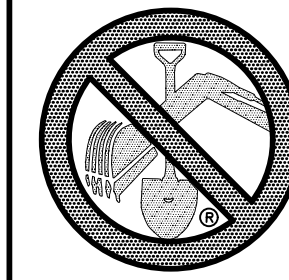
Log		Log		Init.		Date							
9/13/2021		10/7/2021											
LIGHT POLES SS SERVES WATER SERVES REX ROAD 8 1/2" VM (S4 1.2, 6.7, 8.9, 10.1, 11.2, 14.1, 15.16, 22.2, 24.2, 26.2, 27.2, 28.2, 30.3, 31.3, 34.3, 35.3, 38)		REVISE BOUNDARY, LOT LINES FOR 67-73, ADD TRACT F											
1		2		3		Revisions							
No.		No.		No.		No.							
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457													
MERIDIAN RANCH													
THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS OVERALL UNDERDRAIN													
Drawn by	Log	Checked by	TAK	Date	SEPT 2020								
Scale	AS SHOWN		28 of 44										
													



NOTE:

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

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



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BEFORE YOU DIG
CALL 811**

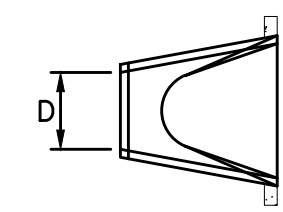
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)



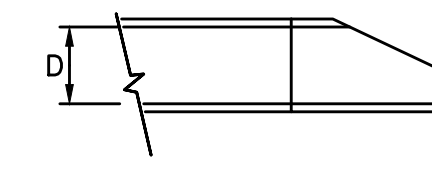
GRAPHIC SCALE



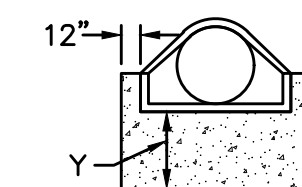
(IN FEET)
1 inch = 150 ft.



PLAN

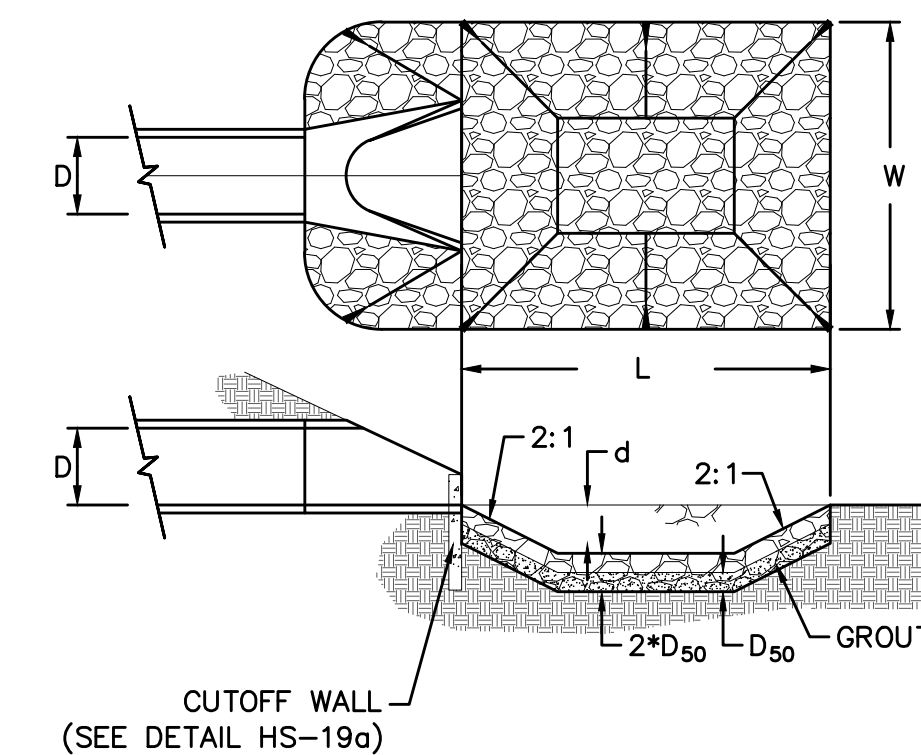


PROFILE



END VIEW

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



URBAN DRAINAGE AND FLOOD CONTROL DISTRICT (MODIFIED*)
Figure HS-19. Culvert and Outlet Erosion Protection
*RIP RAP RECTANGULAR POOL

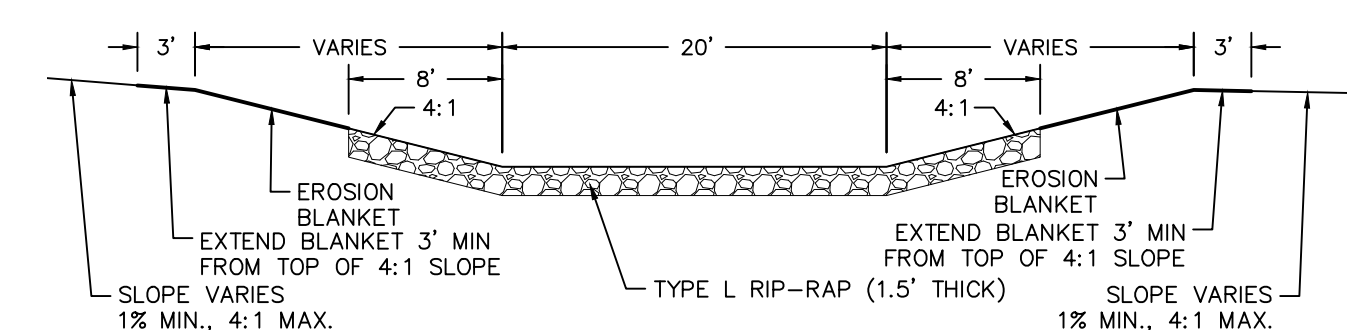
NOTES:

1. Headwall with wingwalls or flared end section required at all culvert outlets.
2. Provide joint fasteners for flared end sections.
3. Grout the lower half of the rip-rap to a depth equal to D_{50} .

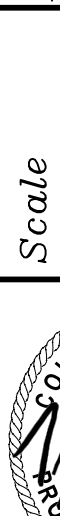

STORM #1
OUTLET PROTECTION DETAIL
NTS

		INTS							
	PIPE OUTLET	L	W	d	TYPE	D ₅₀	CY	Y	NOTES
STORM #1	54"	20.0	20.0	2.25'	M	1.0'	37.3	4.0'	SEE ABOVE

STORM #1

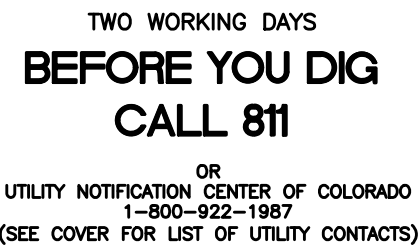


CHANNEL RIP-RAP
CROSS SECTION
NTS

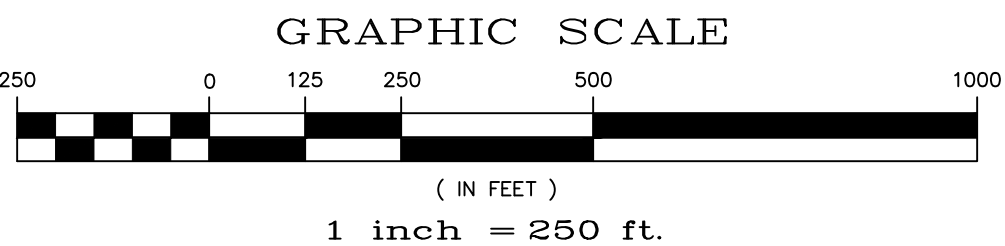
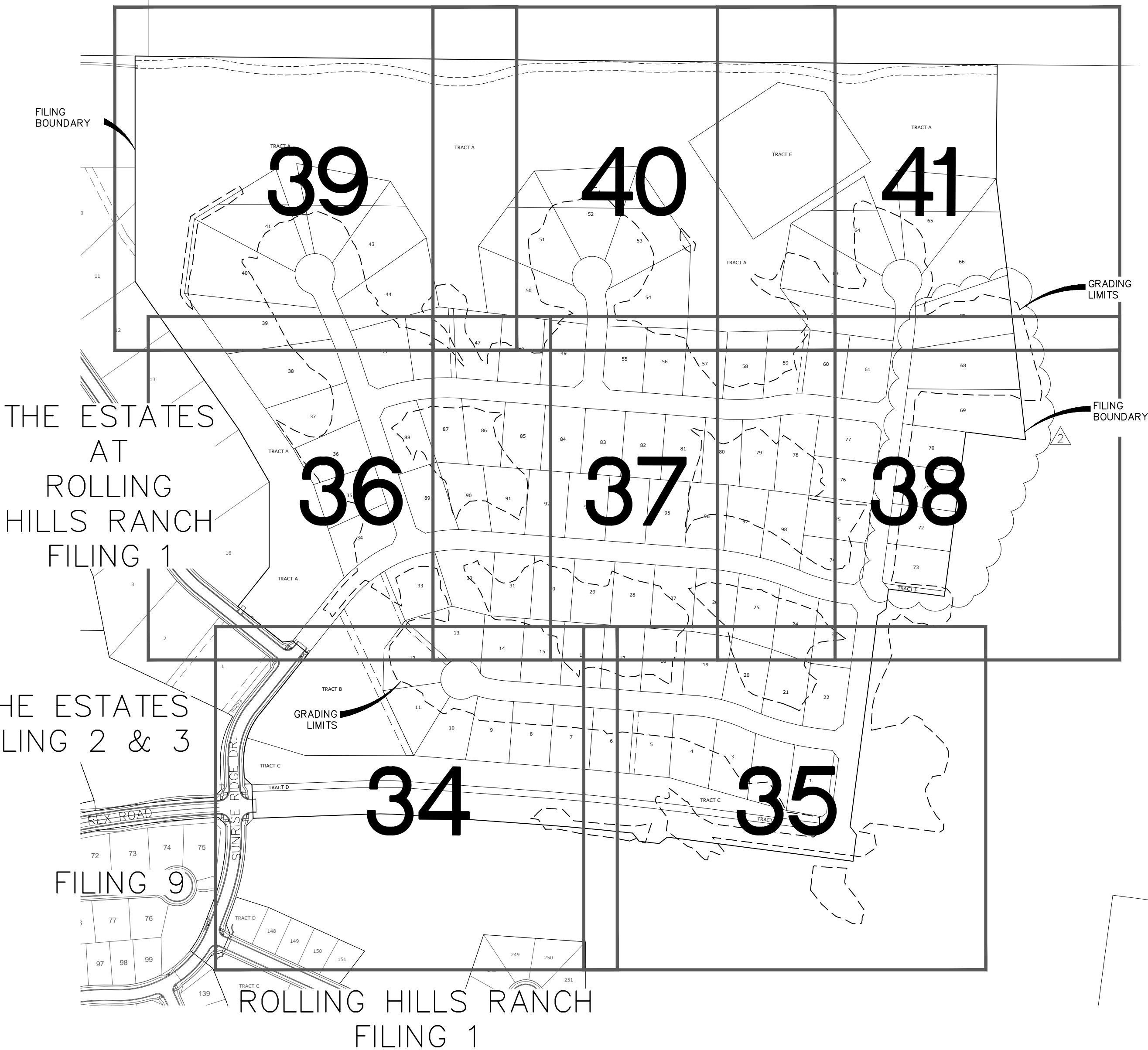
	Scale	AS SHOWN	Drawn by LOG	THE ESTATES AT ROLLING HILLS RANCH FILING 2 STREET AND UTILITY PLANS OVERALL STORM DRAIN	 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1	LIGHT POLES, SS SERVICIES, WATER SERVICES, REK ROAD & 12" WMI (SH 1,2,6,7,8,9,10,11,12,14,15,16,22,23,24,26,27,28,29,30,31,34,35,36,38)	9/10/2021	LOG		
							2	REVISE BOUNDARY, LOT LINES FOR 6"±73, ADD TRACT F	10/7/2021	LOG		
			3									
	32 of 44	Date SEPT 2020					No.	Revisions	Date	Instr.	Appr.	Date

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 SIZE 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. EROSION CONTROL MEASURES ON SLOPES, EROSION 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 OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. 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 PERMANENT VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
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 ON-SITE 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 ON-SITE 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 REPORT FOR THIS SITE HAS 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 CONSTRUCTION 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:

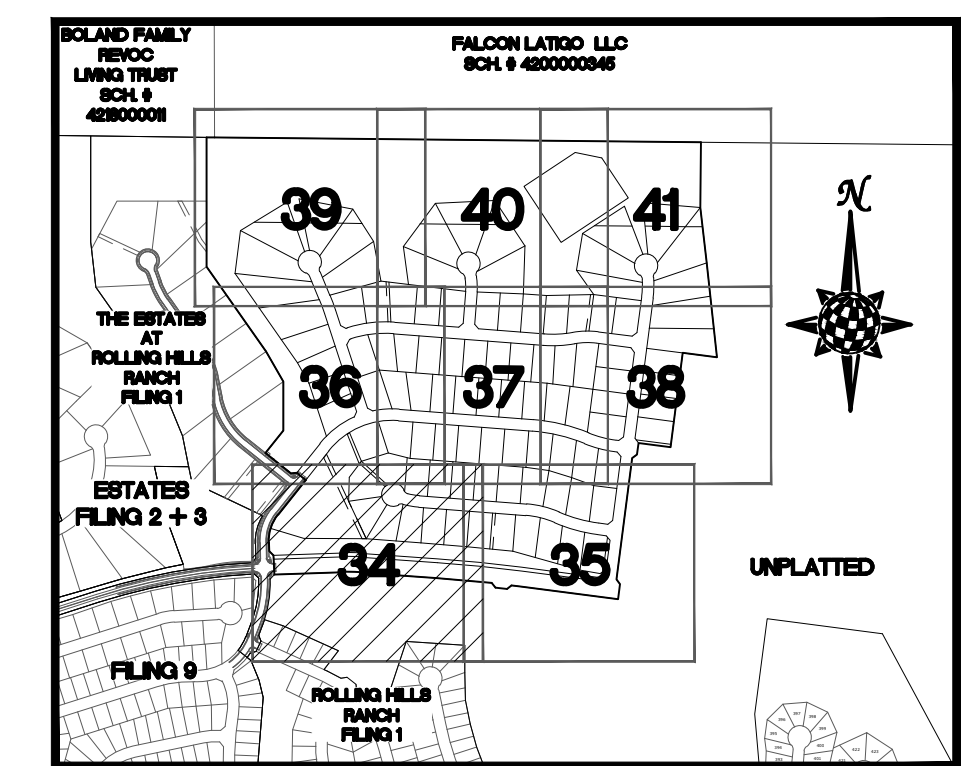
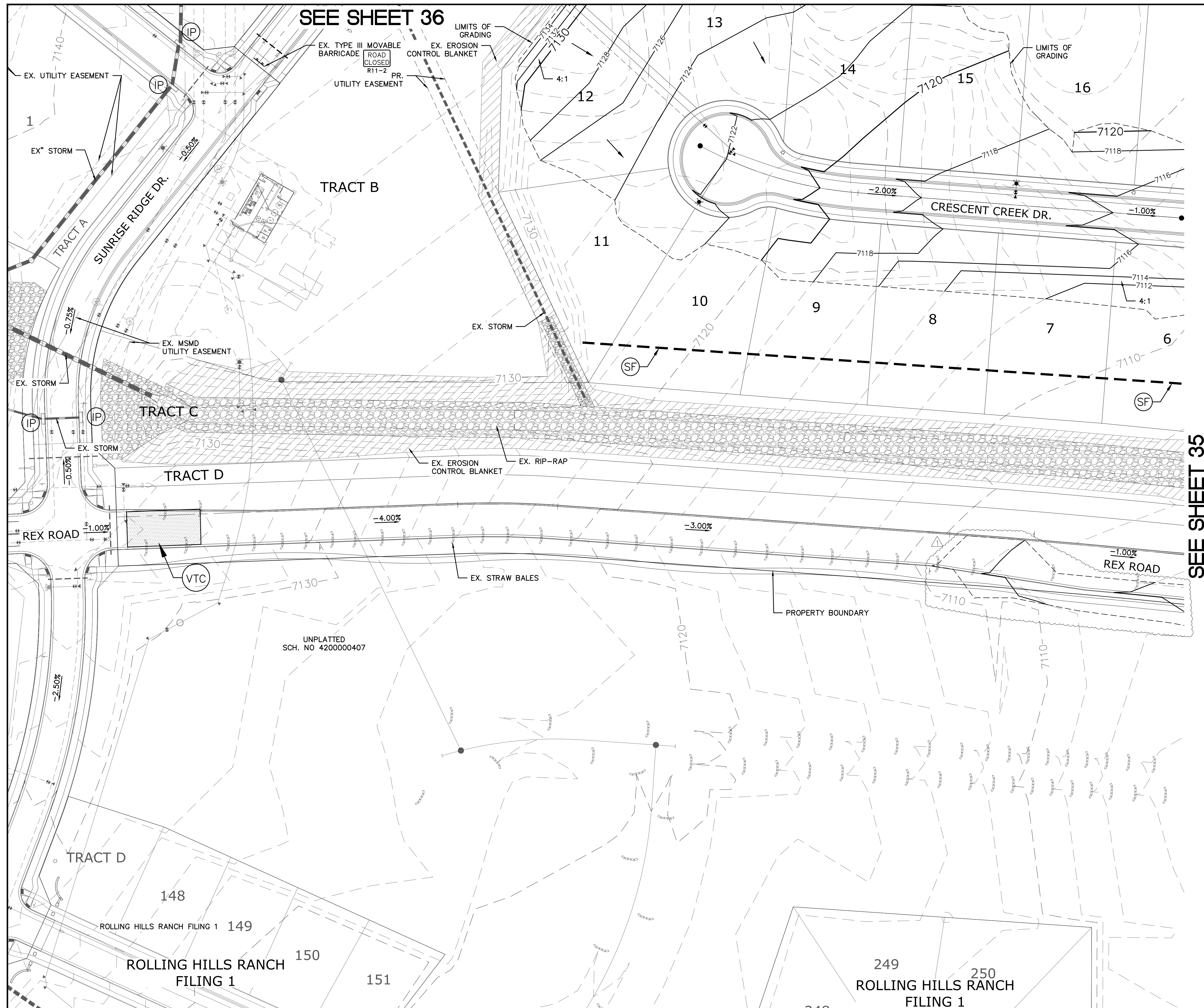
NET YARDS	BALANCE	
TOTAL STRIPPINGS	48.3 AC.	25,975 CY
	<u>CUT</u>	<u>FILL</u>
NET YARDS	88,100 CY	88,100 CY
20% COMPACTION FACTOR		



- 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(UDFCD: MM-2), STAGEING (UDFCD: SM-6), CONCRETE WASHOUT AND WASTE AREAS SHALL BE IDENTIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION AND ADJUSTED AS NECESSARY. IDENTIFICATION SHALL BE LOCATED IN THE SWMP AS WELL AS ANY DETAILS 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.

















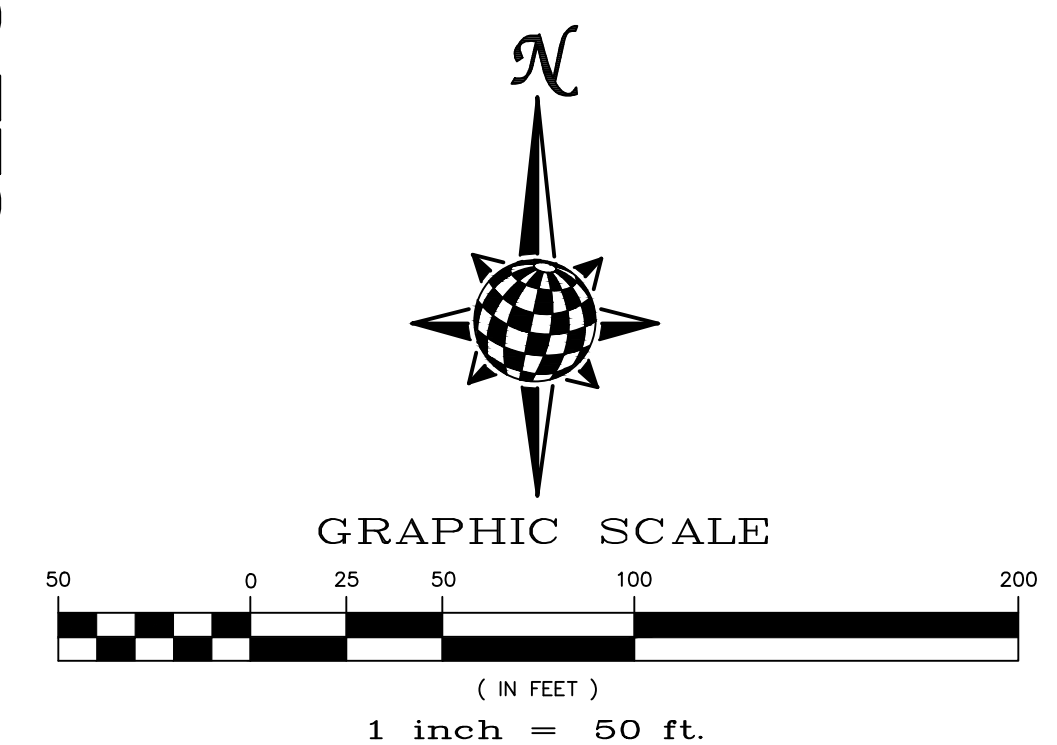
	Scale	AS SHOWN	<i>Drawn by</i> LOG	THE ESTATES AT ROLLING HILLS RANCH FILING 2 GRADING-EROSION CONTROL PLAN	 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1	LIGHT POLES, SS SERVICIES, WATER SERVICES, REAR ROAD & 12" WM (SH 1,2,6,7,8,9,10,11,12,14,15,16,18,22,23,24,26,27,28,29,30,31,34,35,36,38)	9/3/2021	LOG	<i>Date</i> SEPT 2020	
	<i>Checked by</i> TAK						2	REVISE BOUNDARY, LOT LINES FOR 67-75, ADD TRACT F	10/7/2021	LCG		
	<i>Date</i>						3					
33 of 44							<i>No.</i>	<i>Revisions</i>	<i>Date</i>	<i>Invt.</i>	<i>Appr.</i>	<i>Date</i>



INDEX MAP
N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 44
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
	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 44
		PROPERTY BOUNDARY/CONSTRUCTION BOUNDARY
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		LIMITS OF GRADING/CONSTRUCTION BOUNDARY
		FLOW DIRECTION
2.00%		GRADE
75		LOT NUMBER

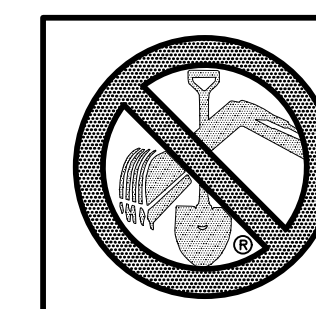


NOTE:
ALL CONTOURS SHOWN WITHIN THE PLAN SET ARE TO FINISHED SURFACE. ALL STREET SECTIONS ARE TO BE GRADED TO ROUGH SUB-GRADE AS SHOWN IN THEIR RESPECTIVE TYPICAL STREET SECTION SHOWN ON SHEET 43.

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.

EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:

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



**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)



SEE SHEET 341

(SF)



<u>ACRONYM</u>	<u>DESCRIPTION</u>
STRAW BALES	

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.

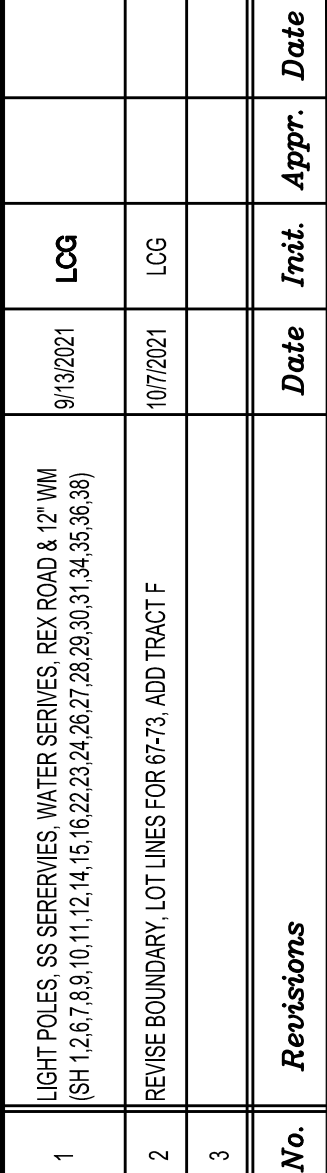
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TECH CONTRACTORS
11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE: 719.495.7444
FAX: 719.495.2457

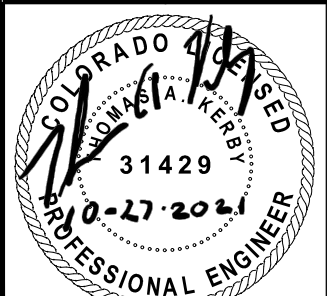


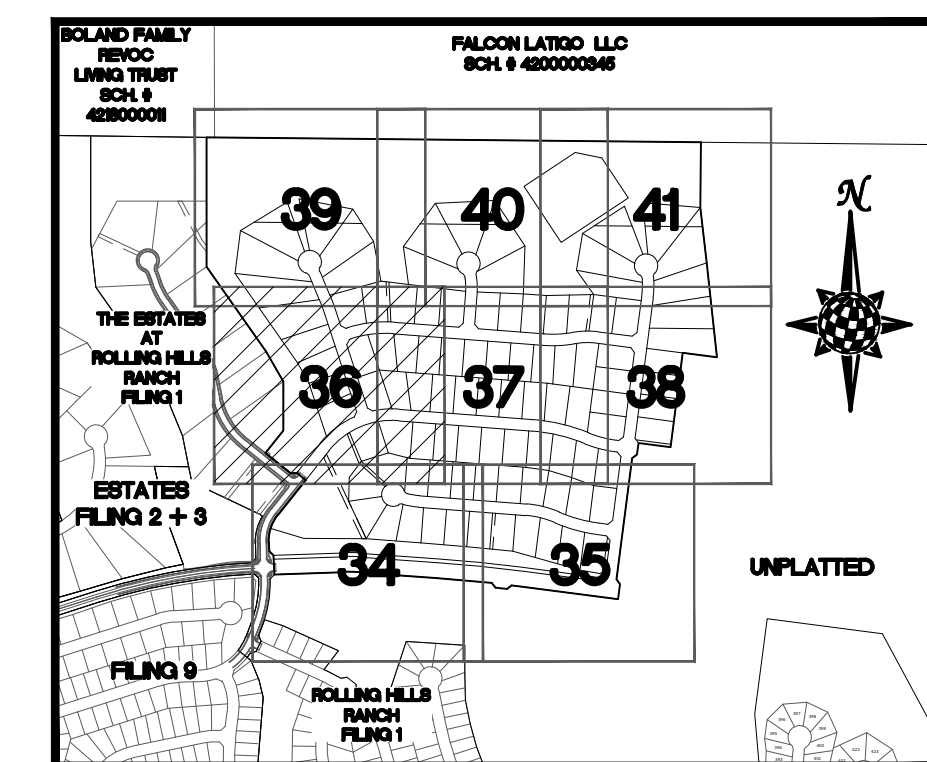
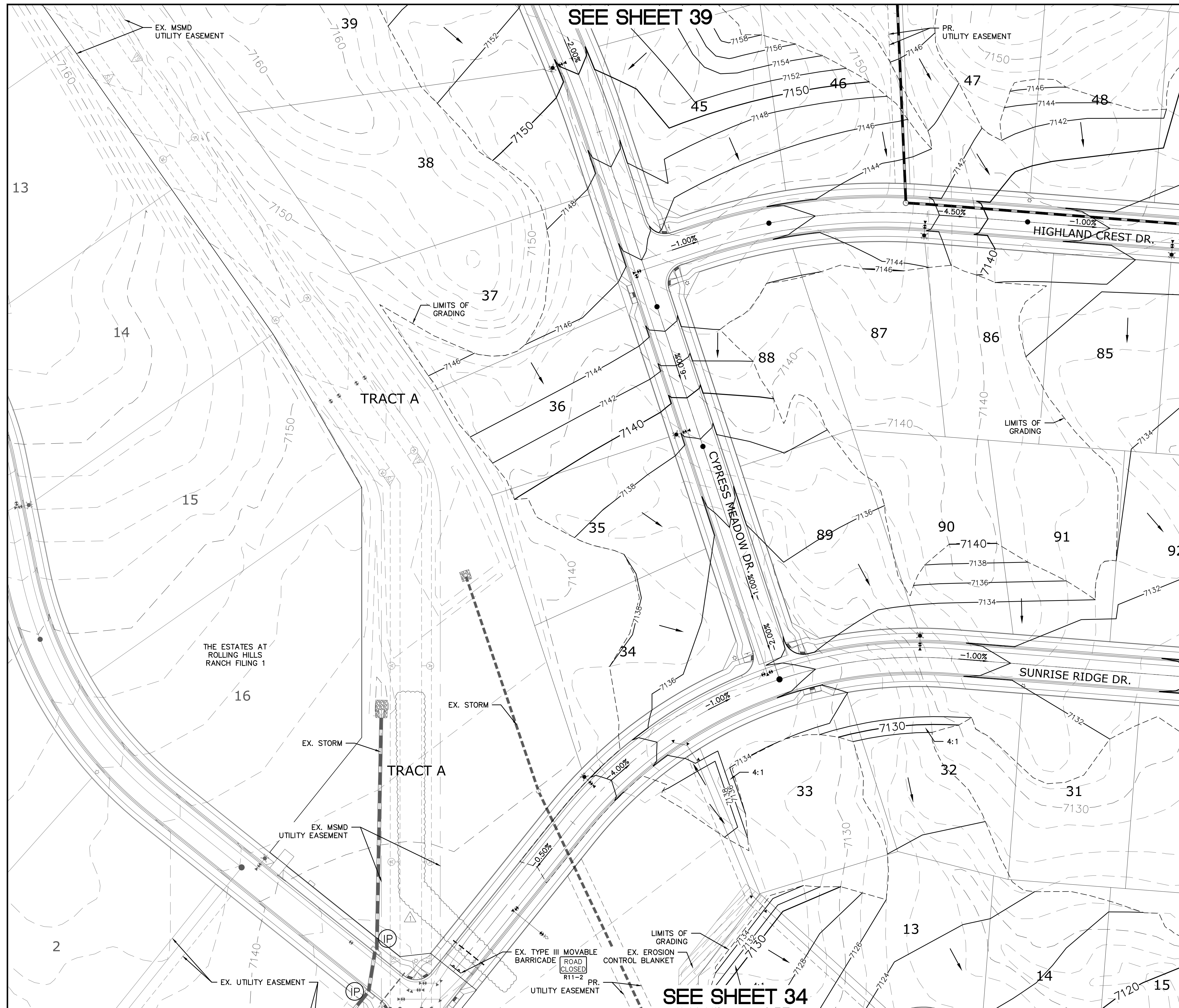
MERIDIAN RANCH

THE ESTATES AT
ROLLING HILLS RANCH FILING 2
GRADING+EROSION CONTROL PLAN

GRADING LAYOUT

Scale	Drawn by
AS SHOWN	LCG
	Checked by
	TAK
35 of 44	Date
	SEPT 2020

















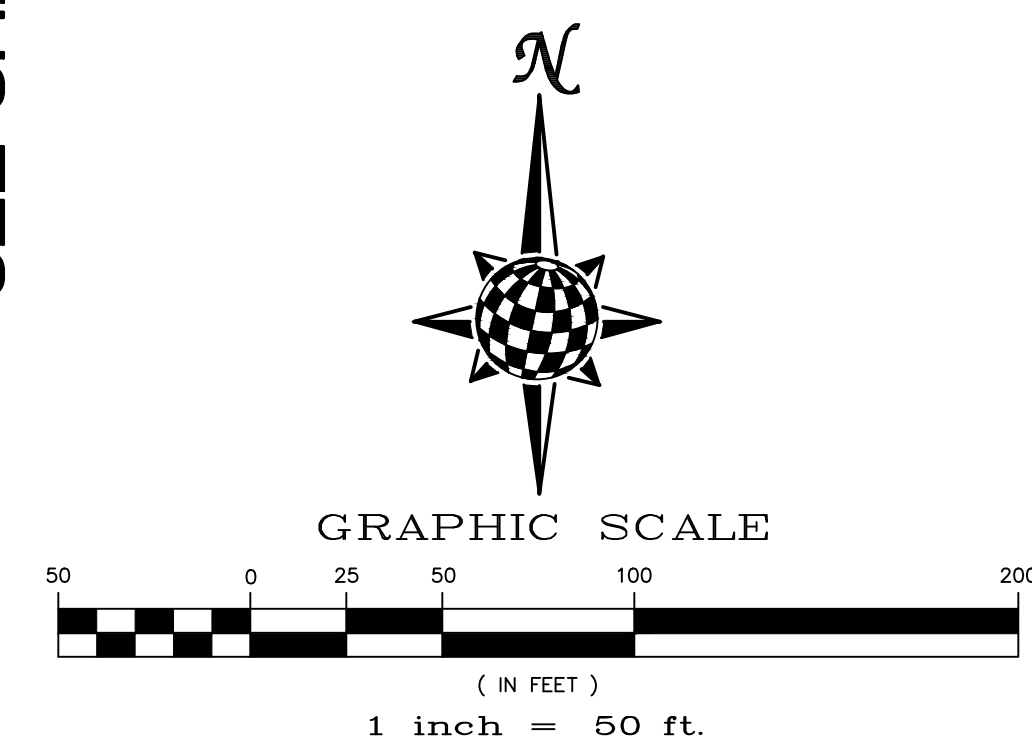


INDEX MAP

N.T.S.

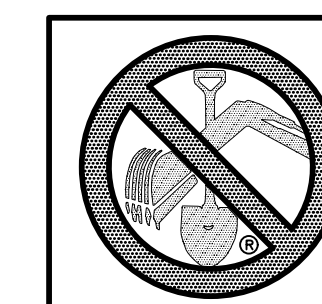
LEGEND

SYMBOL	ACRONYM	DESCRIPTION
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		PER DETAIL ECB-1 & ECB-2
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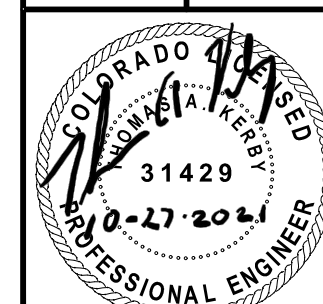
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SHOWN ON SHEET 43.

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EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:
1)ESTATES FILING 2 AT MERIDIAN RANCH
2)ESTATES FILING 3 AT MERIDIAN RANCH
3)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE
4)MERIDIAN RANCH FILING 9
5)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
6)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD
7)THE ESTATES AT ROLLING HILLS RANCH FILING 1
8)ROLLING HILLS RANCH FILING 1



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(SEE COVER FOR LIST OF UTILITY CONTACTS)



LIGHT POLES, SS SERVICERS, WATER SERVICERS, REAR ROAD & 12' WMI (SH: 12.67, 8.9, 10.1, 12.14, 15, 16.22, 23.24, 26.27, 29.30, 31.34, 35.36.38)	LOG	9/13/2021		
REVISE BOUNDARY, LOT LINES FOR 67-73, ADD TRACT F	LOG	10/7/2021		
Revisions				
Date	Initi.	Appr.	Date	

1	
2	
3	
No.	

TECH CONTRACTORS
11886 STAPLETON DRIVE
FALCON, CO 80831

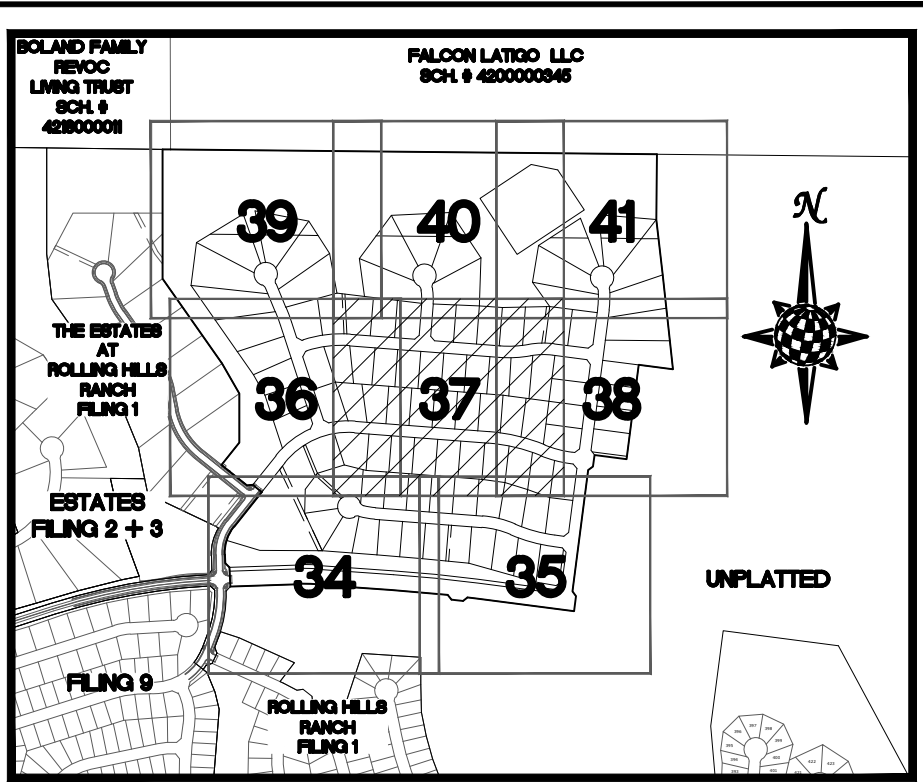
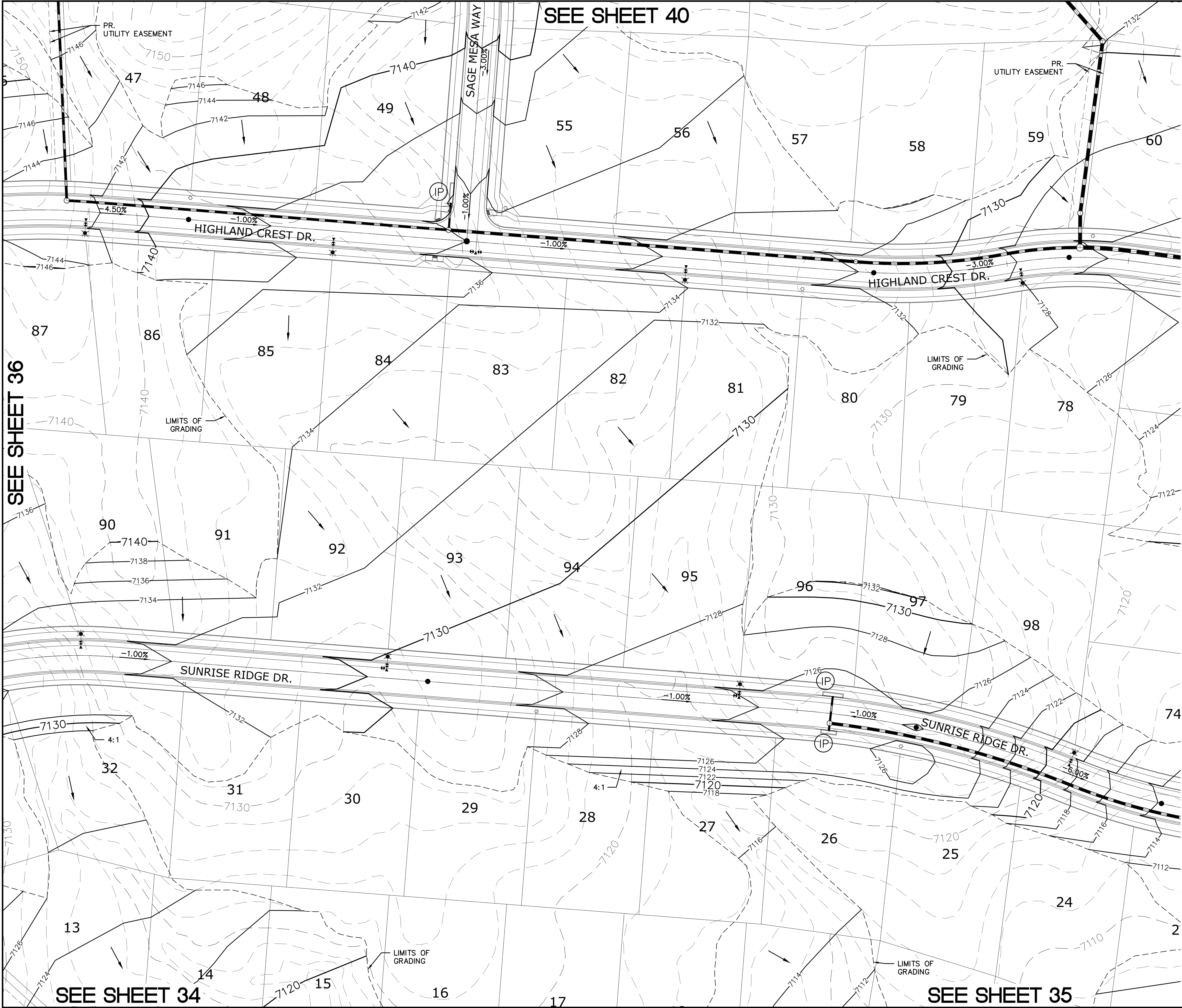
TELEPHONE: 719.495.7444
FAX: 719.495.2457



MERIDIAN BANCHE

THE ESTATES AT
ROLLING HILLS RANCH FILING 2
GRADING+EROSION CONTROL PLAN
GRADING LAYOUT

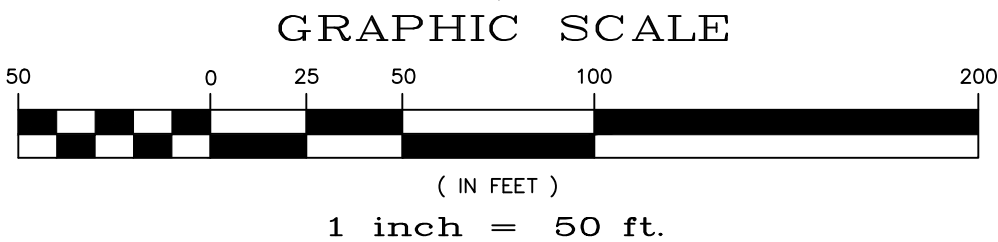
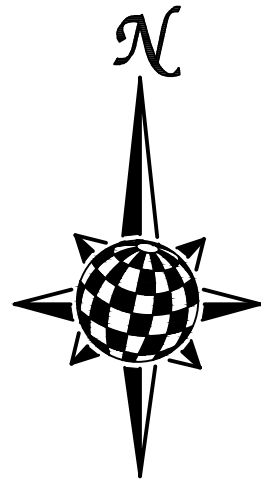
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	Checked by TAK
	Date SEPT 2020



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N.T.S.

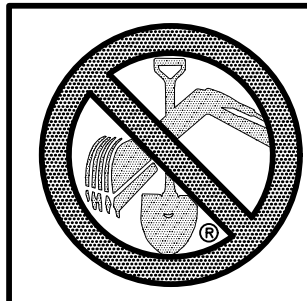
LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 44
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
	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 44
		PROPERTY BOUNDARY/CONSTRUCTION BOUNDARY
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		LIMITS OF GRADING/CONSTRUCTION BOUNDARY
		FLOW DIRECTION
		GRADE
		LOT NUMBER





NOTE:
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6)MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD
7)THE ESTATES AT ROLLING HILLS RANCH FILING 1
8)ROLLING HILLS RANCH FILING 1

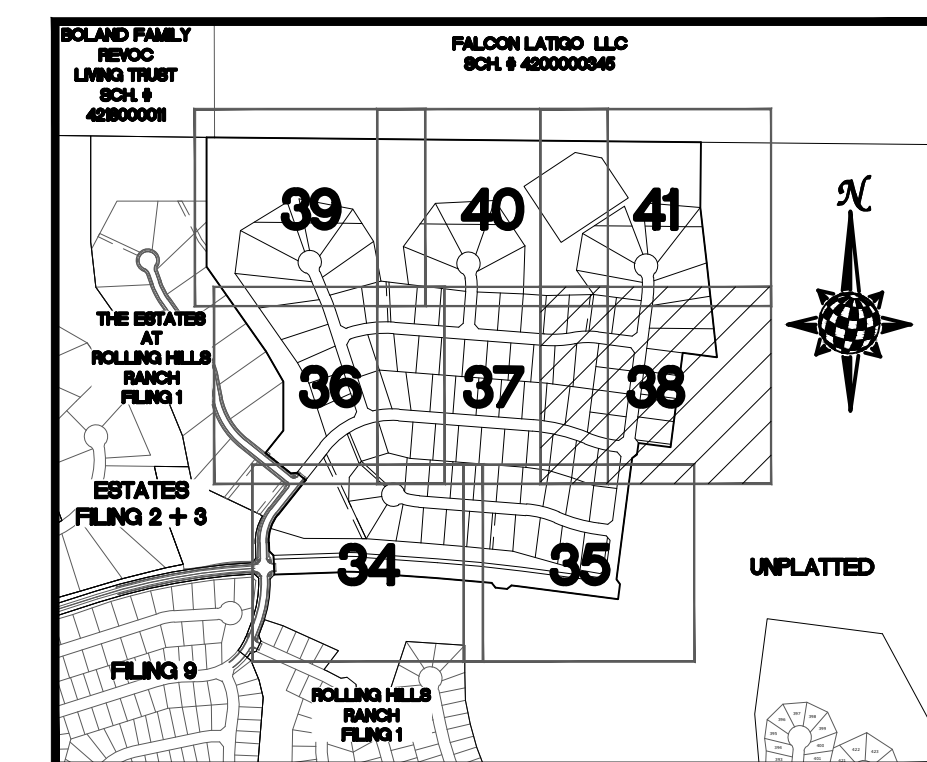
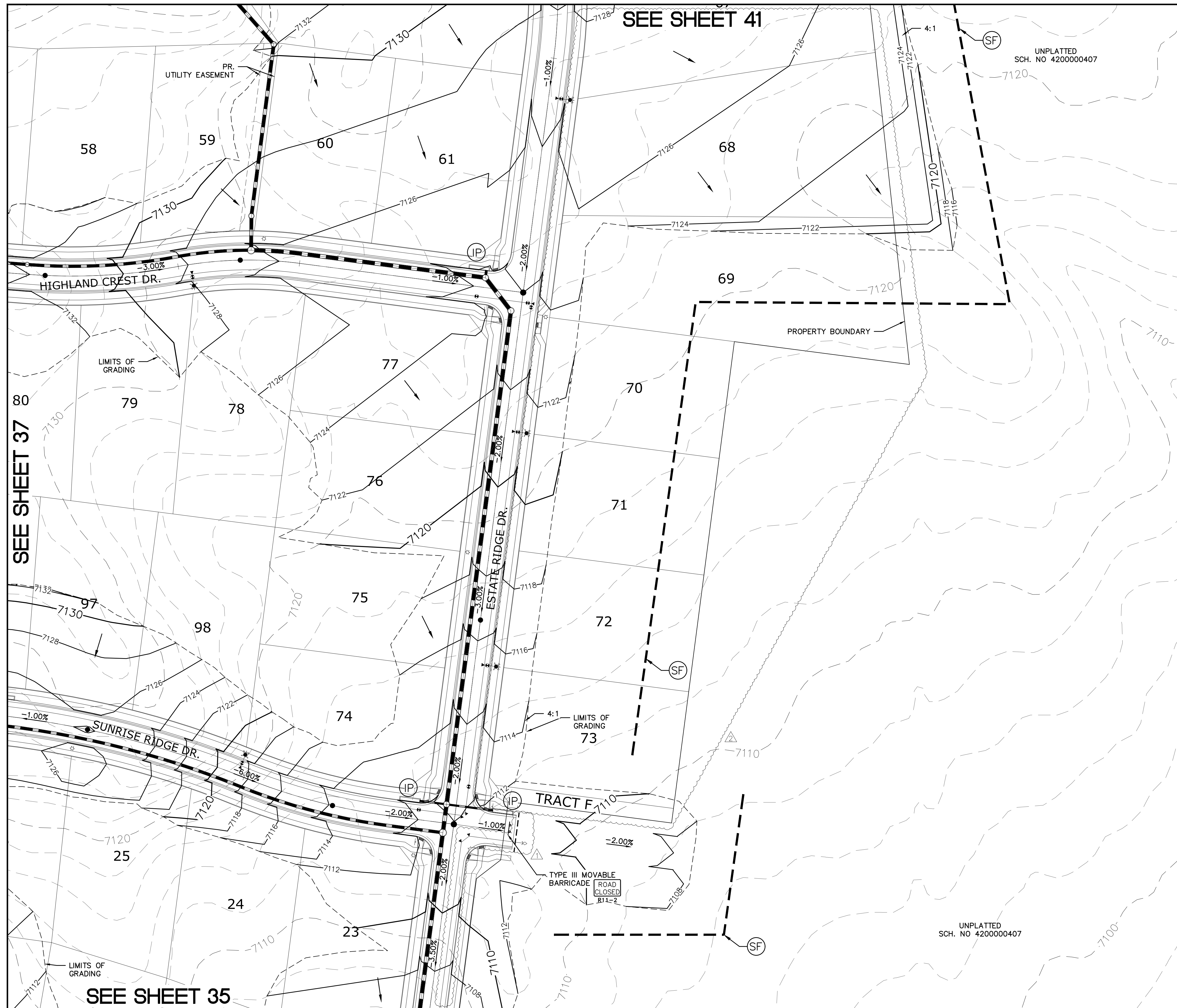


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(SEE COVER FOR LIST OF UTILITY CONTACTS)

	Scale AS SHOWN	37 of 44	Drawn by LOG		THE ESTATES AT ROLLING HILLS RANCH FILING 2		 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457			1 LIGHT POLES, SS SERVES, WATER SERVICES, REX ROAD & 12' W/M (S4 12.6, 7.8, 10, 11, 12, 14, 15, 16, 22, 23, 24, 26, 27, 28, 30, 31, 34, 35, 36, 38)			LOG	9/13/2021		
	Checked by TAK	GRADING/EROSION CONTROL PLAN		LOG	10/7/2021												
	Date SEPT 2020	GRADING LAYOUT															
								No.	Revisions	Date	Appr.	Date					

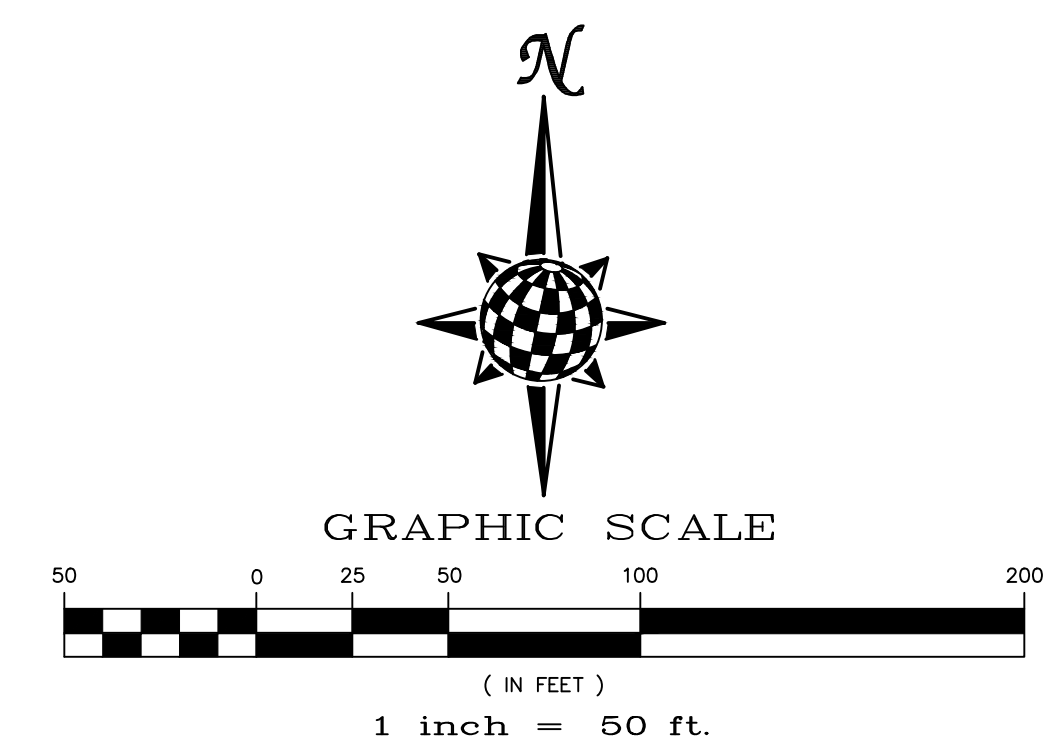




INDEX MAP
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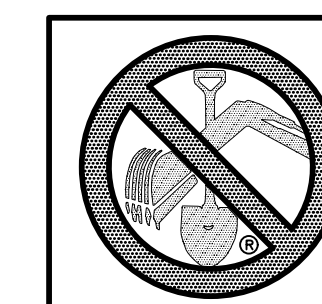
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SYMBOL	ACRONYM	DESCRIPTION
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		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
	RCP	REINFORCED CONCRETE PIPE
	(SF)	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
	(VTC)	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	(IP)	INLET PROTECTION PER DETAIL SHEET 44
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		EXISTING CONTOUR (2')
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		FLOW DIRECTION
		GRADE
		LOT NUMBER



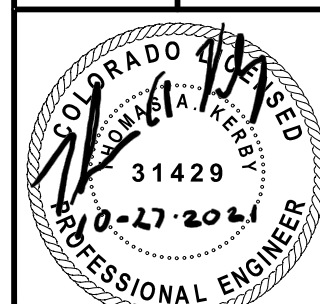
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8)ROLLING HILLS RANCH FILING 1

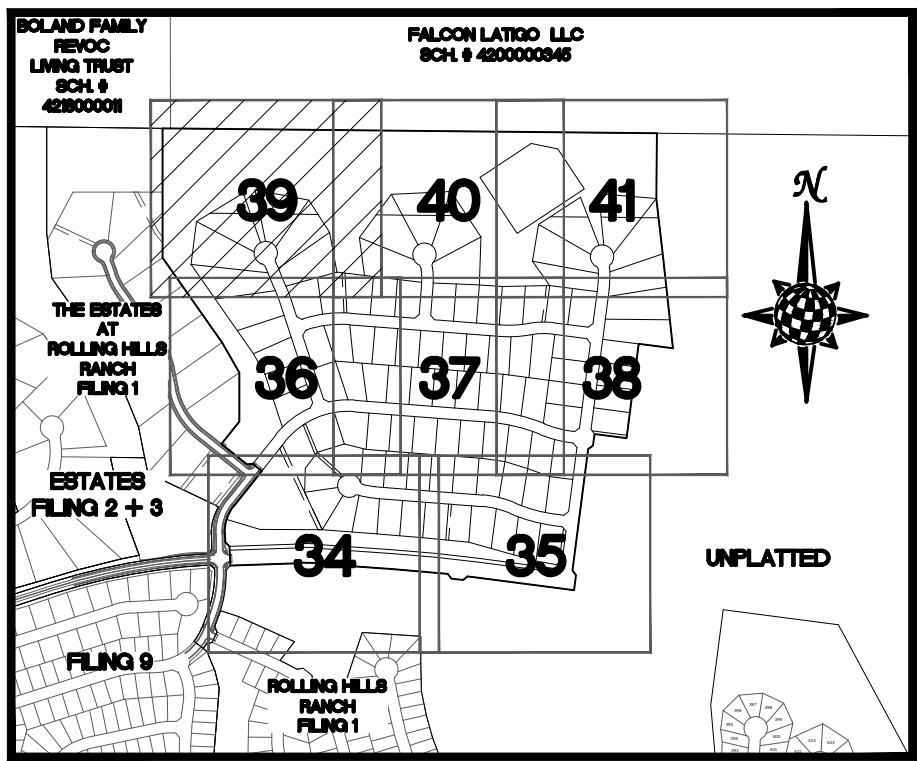
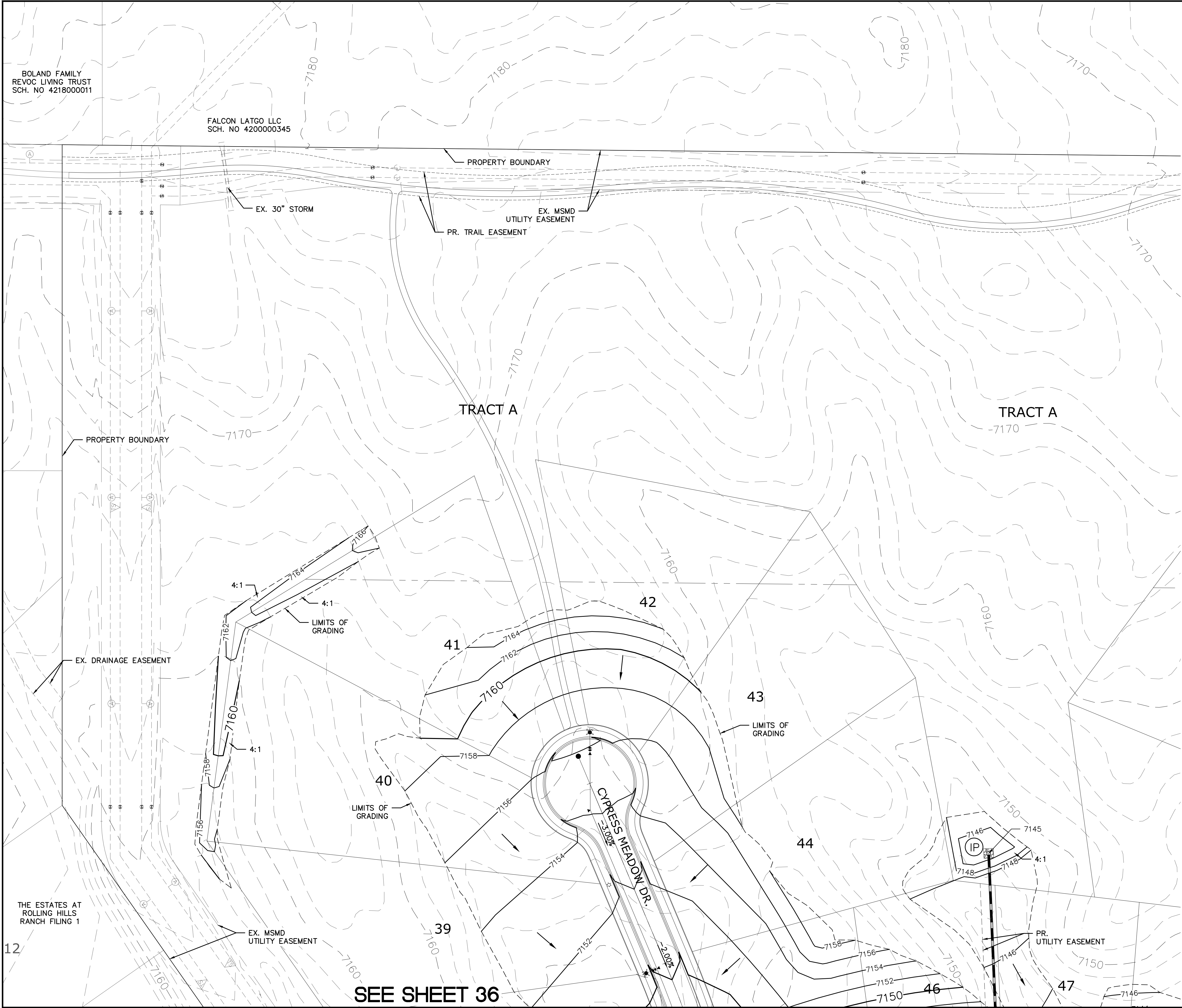


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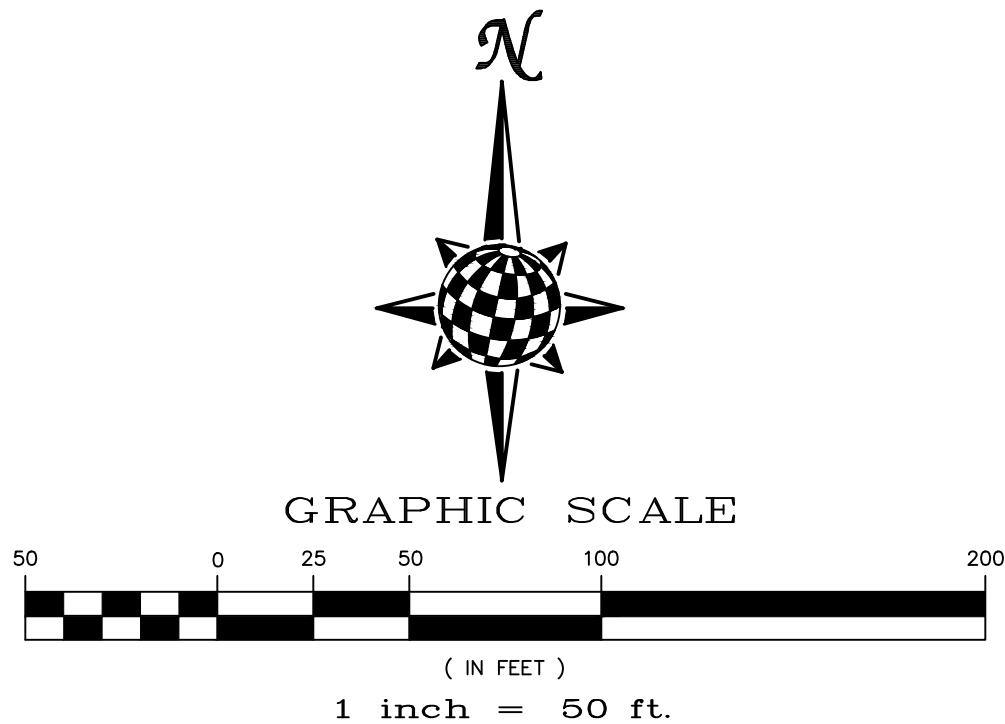


	Scale AS SHOWN	38 of 44	Drawn by LOG	THE ESTATES AT ROLLING HILLS RANCH FILING 2 GRADING-EROSION CONTROL PLAN GRADING LAYOUT	 MERIDIAN RANCH 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: FAX:	1	LIGHT POLES, SS SERVICES, WATER SERVICES, REX ROAD 4.12' WMI (SH 1.7, 6.8, 9.0, 11.1, 12.1, 14.15, 16, 22.2, 24.2, 26.2, 27.28, 29.30, 31.34, 35.38, 38)	9/19/2021	LOG		
			Checked by TAK				2		RE-VISE BOUNDARY, LOT LINES FOR 67+73, ADD TRACT F	10/7/2021	LOG	
	Date SEPT 2020	3							No.	Revisions	Date	Appr.



LEGEND

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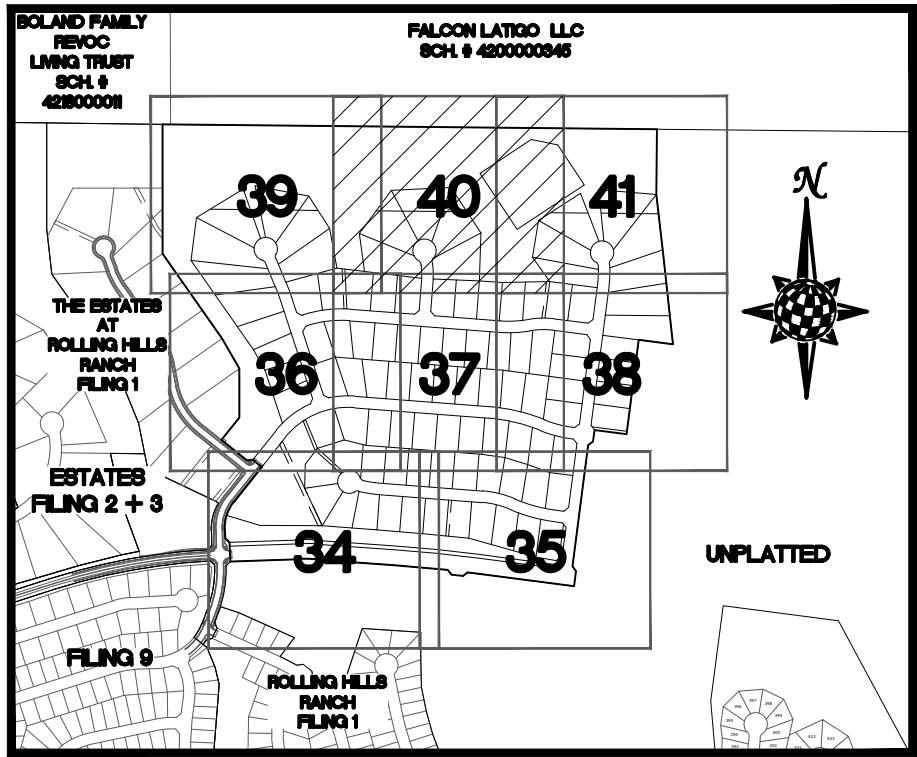
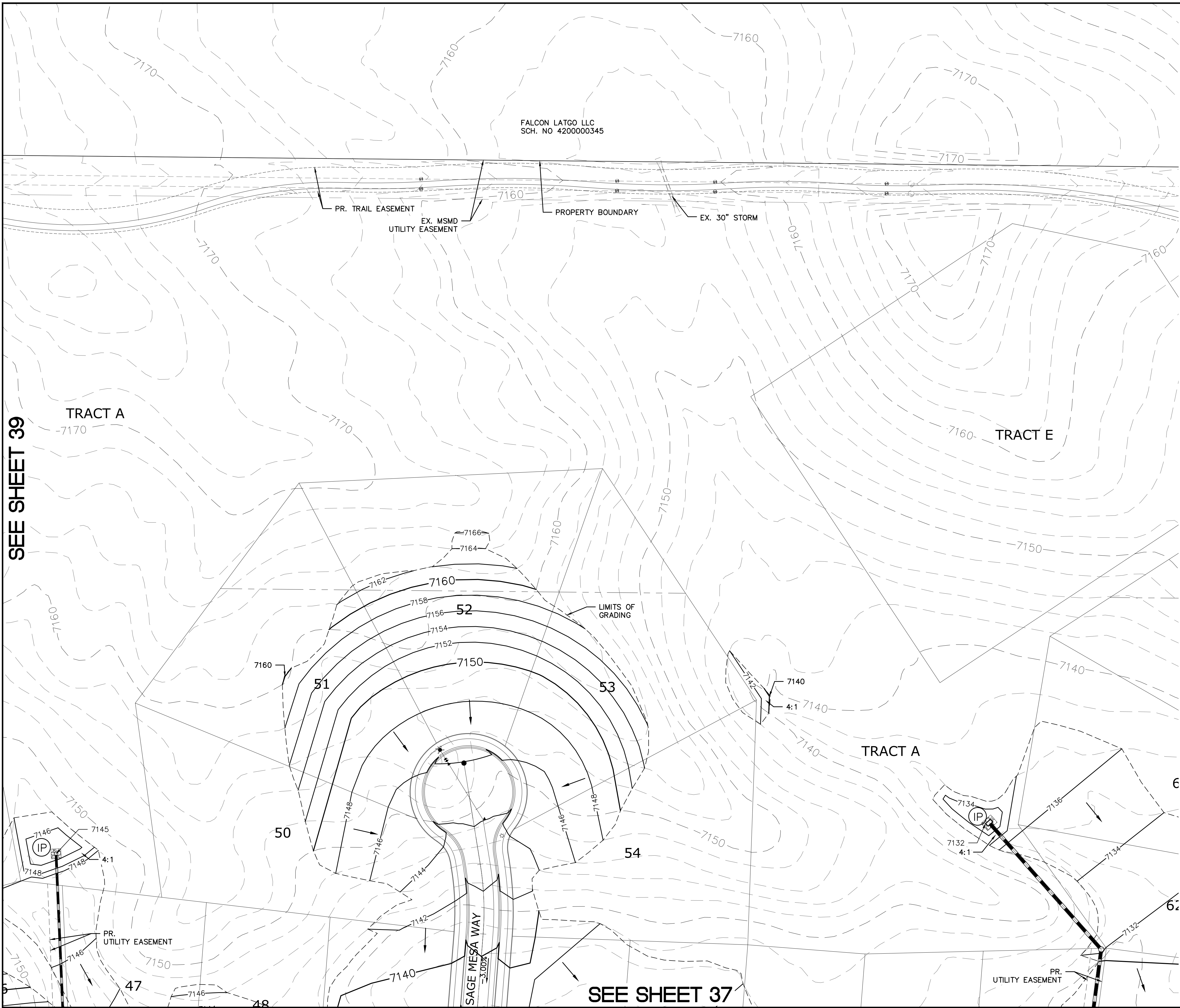
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		Scale AS SHOWN		Drawn by LCS	THE ESTATES AT ROLLING HILLS RANCH FILING 2 GRADING-EROSION CONTROL PLAN		 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		1 LIGHT POLES, SS SERVICIES, WATER SERVICES, REX ROAD & 12" MM (S1, 1,2,6,7,8,9,10,11,12,14,15,16,22,23,24,26,27,28,29,30,31,34,35,36,38)		LOG		9/13/2021				
39 of 44		Checked by TAK			GRADING LAYOUT			3 REVISE BOUNDARY, LOT LINES FOR 67-73, ADD TRACT F		LCS		10/7/2021						
		Date SEPT 2020																
		</																

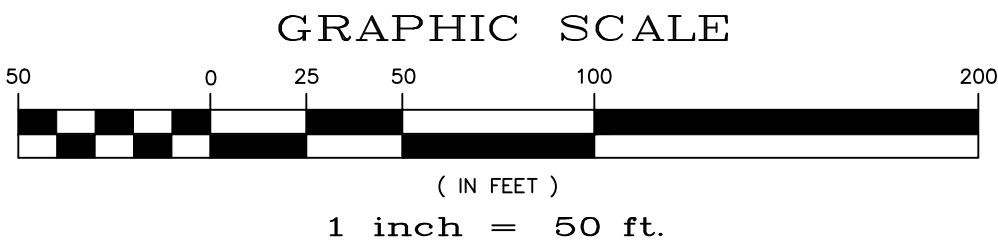
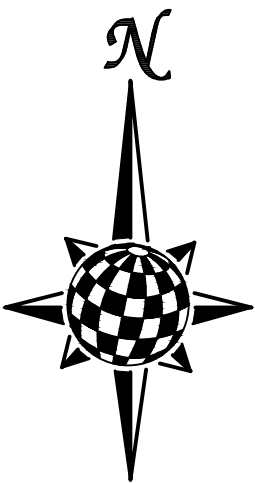


INDEX MAP

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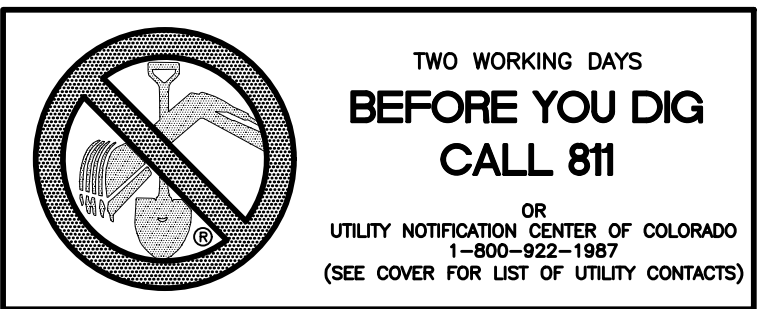
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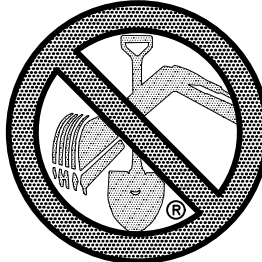
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	Scale AS SHOWN	Drawn by LOG	THE ESTATES AT ROLLING HILLS RANCH FILING 2		 MERIDIAN RANCH	TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1	LIGHT POLES, SS SERVES, WATER SERVICES, REX ROAD & 12" WM (SH: 1,2,6,7,8,9,10,11,12,14,15,16,22,23,24,26,27,28,29,30,31,34,35,36,38)	LOG	9/13/2021		
		Checked by TAK	GRADING+EROSION CONTROL PLAN									
		Date SEPT 2020	40 of 44									
							2	REVISE BOUNDARY, LOT LINES FOR 67-73, ADD TRACT F	LOG	10/7/2021		
							3					
	</											





TWO WORKING DAYS

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OR

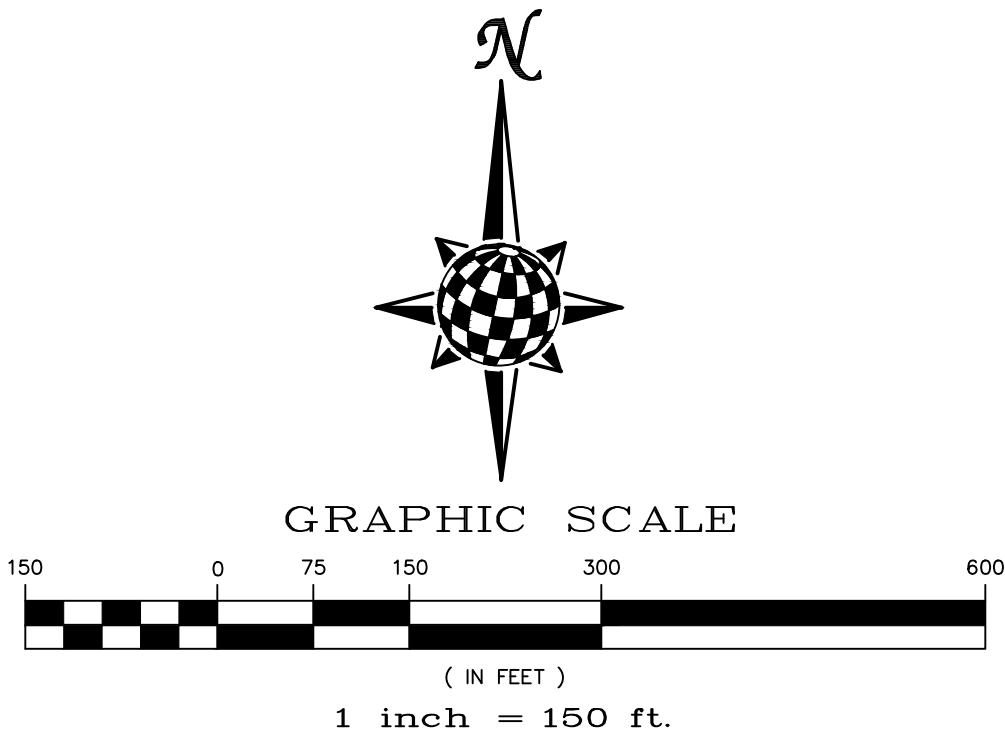
UTILITY NOTIFICATION CENTER OF COLORADO

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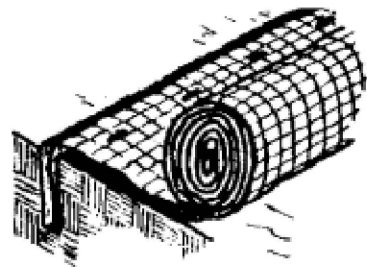


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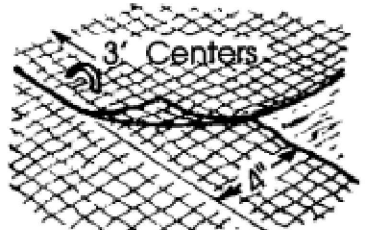
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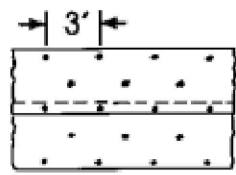
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LIGHT POLES SS SERVES WATER SERVICES REX ROAD 8'12" MM (S+1.2,6.7,8.3,10.1,11.2,14.15,16,22,23,24,26,27,28,29,30,31,34,35,36,38)		REUSE BOUNDARY, LOT LINES FOR 67-73, ADD TRACT F		Revisions	
1		2		3	
TECH CONTRACTORS		TECH CONTRACTORS		TECH CONTRACTORS	
11886 STAPLETON DRIVE		11886 STAPLETON DRIVE		11886 STAPLETON DRIVE	
FALCON, CO 80831		FALCON, CO 80831		FALCON, CO 80831	
TELEPHONE: 719.495.7444		TELEPHONE: 719.495.7444		TELEPHONE: 719.495.7444	
FAX: 719.495.2457		FAX: 719.495.2457		FAX: 719.495.2457	
MERIDIAN RANCH		MERIDIAN RANCH		MERIDIAN RANCH	
THE ESTATES AT ROLLING HILLS RANCH FILING 2		THE ESTATES AT ROLLING HILLS RANCH FILING 2		THE ESTATES AT ROLLING HILLS RANCH FILING 2	
ROLLING HILLS RANCH FILING 2		ROLLING HILLS RANCH FILING 2		ROLLING HILLS RANCH FILING 2	
GRADING/EROSION CONTROL PLAN		GRADING/EROSION CONTROL PLAN		GRADING/EROSION CONTROL PLAN	
#####		#####		#####	
Drawn by		Checked by		Date	
Log		TAK		SEPT 2020	
Scale		AS SHOWN		# of 44	
AS SHOWN		AS SHOWN		AS SHOWN	
31429		31429		31429	
PROFESSIONAL ENGINEER		PROFESSIONAL ENGINEER		PROFESSIONAL ENGINEER	



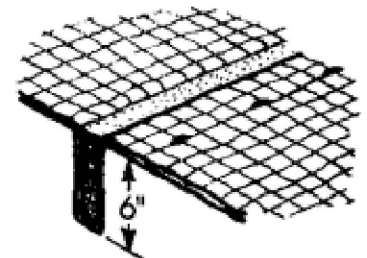
Anchor Slot: Bury the up-channel end of the net in a 6" deep trench. Tamp the soil firmly. Staple at 12" intervals across the net.



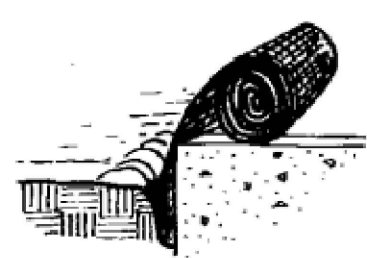
Overlap: Overlap edges of the strips at least 4". Staple every 3 feet down the center of the strip.



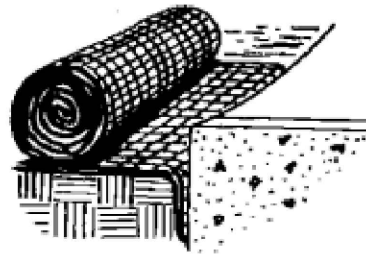
Joining Strips: Insert the new roll of net in a trench, as with the Anchor Slot. Overlap the up-channel side of the structure. Fill the trench and tamp firmly. Lay the net smoothly on the surface of the soil - do not stretch the net, and do not allow wrinkles.



Check Slots: On erodible soils or steep slopes, check slots should be made every 15 feet. Insert a fold of the net into a 6" trench and tamp firmly. Staple at 12" intervals across the net. Lay the net smoothly on the surface of the soil - do not stretch the net, and do not allow wrinkles.

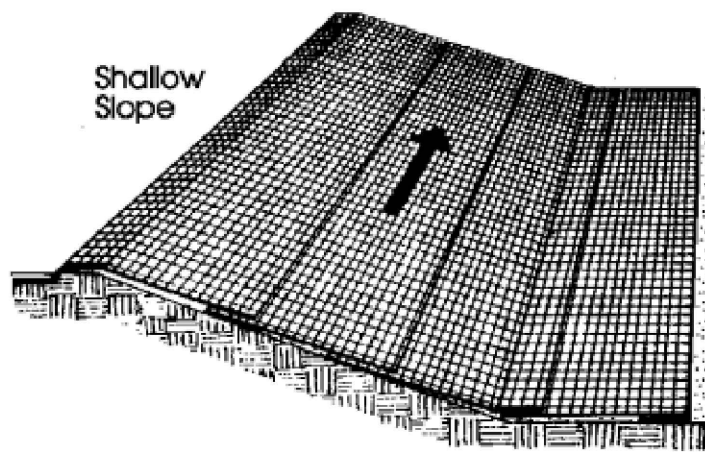


Anchoring Ends At Structures: Place the end of the net in a 6" slot on the up-channel side of the structure. Fill the trench and tamp firmly. Roll the net up the channel. Place staples at 12" intervals along the anchor end of the net.



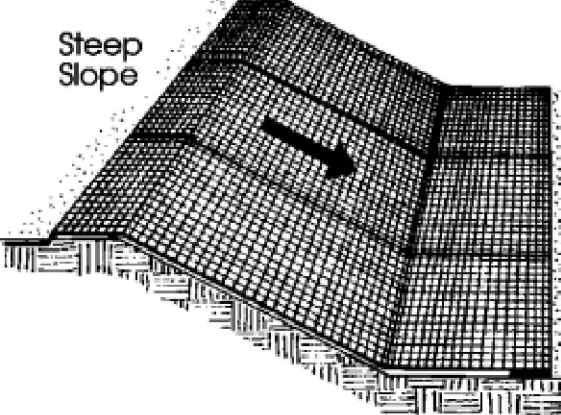
City of Colorado Springs
Storm Water Quality

Figure ECB-2
Erosion Control Blanket
Installation Requirements



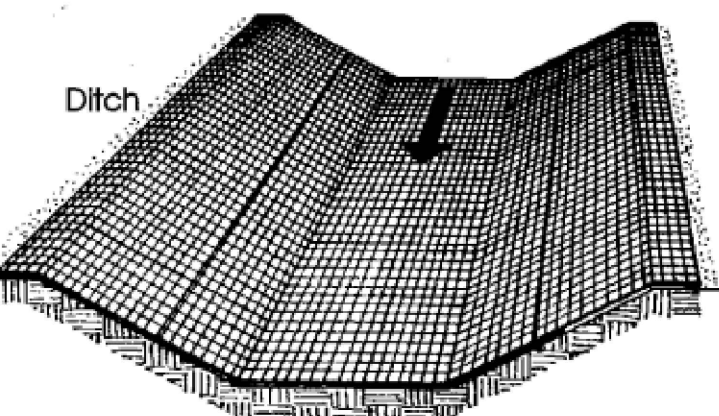
On shallow slopes, strips of netting may be applied across the slope.

Where there is a berm at the top of the slope, bring the netting over the berm and anchor it behind the berm.



On steep slopes, apply strips of netting parallel to the direction of flow and anchor securely.

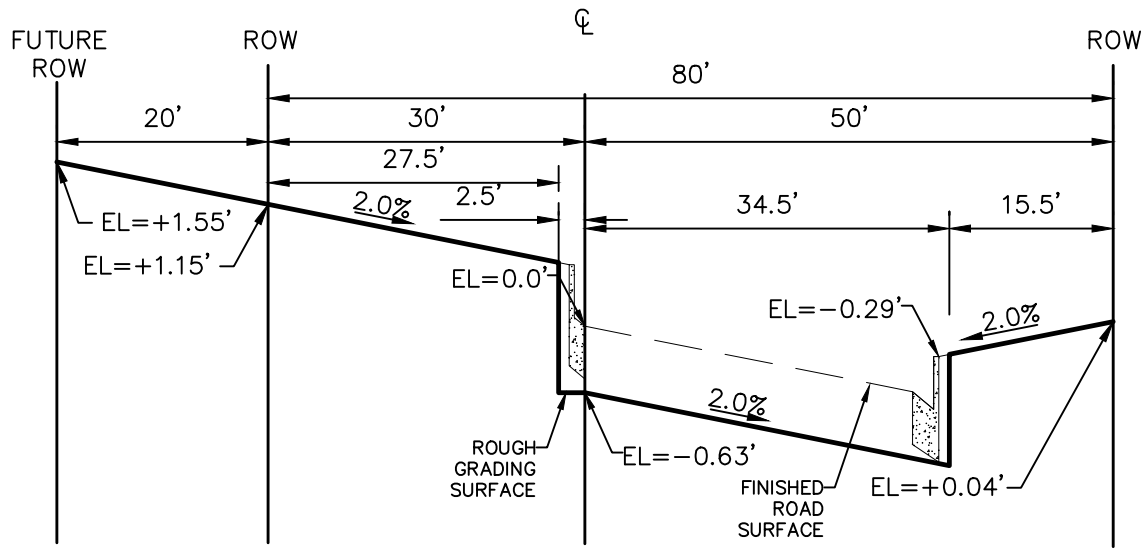
Bring netting down to a level area before terminating the installation. Turn the end under 6" and staple at 12" intervals.



In ditches, apply netting parallel to the direction of flow. Use check slots every 15 feet. Do not join strips in the center of the ditch.

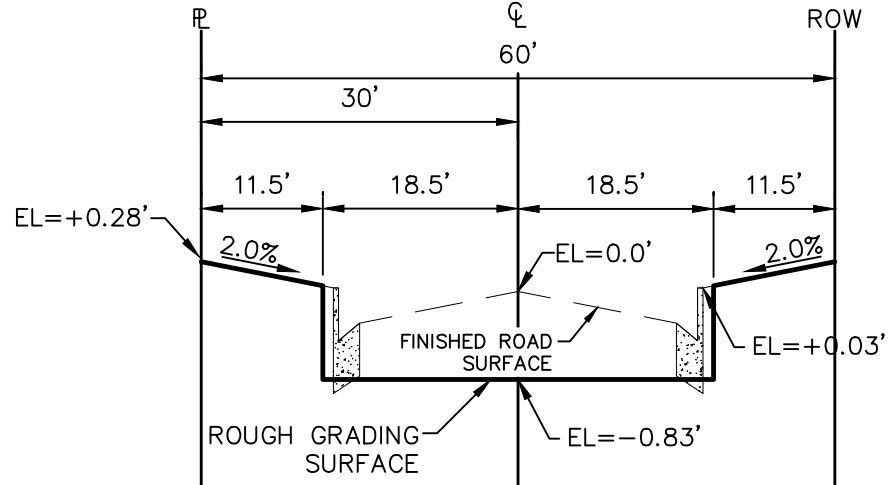
City of Colorado Springs
Storm Water Quality

Figure ECB-1
Erosion Control Blanket
Application Examples



REX ROAD TYPICAL
TEMP. MINOR ARTERIAL STREET SECTION

80' ROW(100' FUTURE)
NTS



TYPICAL RESIDENTIAL STREET SECTION

60' ROW
NTS

STEPS FOR CONSTRUCTION

THE ANTICIPATED START FOR THIS PROJECT IS DECEMBER 2020 WITH AN ANTICIPATED COMPLETION DATE OF OCTOBER 2022. BELOW IS A BRIEF OUTLINE OF THE CONSTRUCTION SEQUENCE FOR THIS PROJECT.

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

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.

EROSION AND SEDIMENT CONTROL STAGE TABLE

Stage	Description	Control Measures	Begin Date	End Date
Stage 1	Overlot Grading	Perimeter Control Temporary Sed. Basins Swale Checks as needed Surface Roughening	December 2020	March 2021
Stage 2	Underground utilities Surface Improvements	Perimeter Control Inlet Protection	March 2021	June 2021
Stage 3	Home Construction	Inlet Protection Individual Lot Perimeter Control	June 2021	
Final Stabilization	Permit Close	Final Stabilization Permanent Measures	October 2022	

MATERIAL HANDLING AND SPILL PREVENTION

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

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

FINAL STABILIZATION AND LONG TERM STORMWATER MANAGEMENT

ONCE THE MAJOR ROADS ARE PAVED AND THE SURROUNDING DISTURBED AREAS ARE 70% ESTABLISHED WITH VEGETATION AND ACCEPTANCE BY THE MERIDIAN RANCH SERVICE DISTRICT, THE CHECK DAMS AND THE SILT FENCES AROUND THE STREETS CAN BE REMOVED. AFTER COMPLETION OF THE STORM SEWER SYSTEM, THE STRAW BALES AND/OR 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-SEEDDED 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 DOM VOLUME 2, FIGURE MU-1, FOUND ON PAGE 3-30.

BELOW IS THE ACCEPTED GRASS MIX FOR SANDY SOILS:

GRASS	VARIETY	AMOUNT IN LBS. PER. ACRE
SIDEOTA'S 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

MULCHING NOTES

INSTALLATION REQUIREMENTS

1. ALL DISTURBED AREAS MUST BE MULCHED WITHIN 21 DAYS AFTER FINAL GRADE AND SEEDING AREAS ARE TO BE MULCHED WITHIN 24 HOURS AFTER SEEDING.

2. MATERIAL USED FOR MULCH CAN BE CERTIFIED CLEAN, WEED- AND SEED-FREE LONG STEMMED FIELD OR MARSH HAY, OR STRAW OF OATS, BARLEY, WHEAT, RYE, OR TRITICALE CERTIFIED BY THE COLORADO DEPARTMENT OF AGRICULTURE WEED FREE FORAGE CERTIFICATION PROGRAM.

3. HYDRAULIC MULCHING MATERIAL SHALL CONSIST OF VIRGIN WOOD FIBER MANUFACTURED FROM CLEAN WHOLE WOOD CHIPS. WOOD CHIPS CANNOT CONTAIN ANY GROWTH OR GERMINATION INHIBITORS OR BE PRODUCED FROM RECYCLED MATERIAL. GRAVEL CAN ALSO BE USED.

4. MULCH IS TO BE APPLIED EVENLY AT A RATE OF 2 TONS PER ACRE.

5. MULCH IS TO BE ANCHORED EITHER BY CRIMPING (TUCKING MULCH FIBERS 4 INCHES INTO THE SOIL) USING NETTING (USED ON SMALL AREAS WITH STEEP SLOPES), OR WITH A TACKIFIER.

6. HYDRAULIC MULCHING AND TACKIFIERS ARE NOT TO BE USED IN THE PRESENCE OF FREE SURFACE WATER.

MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL MULCHED AREAS.

2. MULCH IS TO BE REPLACED IMMEDIATELY IN THOSE AREAS IT HAS BEEN REMOVED, AND IF NECESSARY THE AREA SHOULD BE RESEEDDED.

RECOMMENDED ANNUAL GRASSES

SPECIES (COMMON NAME)	GROWTH SEASON	SEEDING DATE	POUNDS OF PURE LIVE SEED (PLS) (PLS/ACRE)	PLANTING DEPTH (INCHES)
1. OATS	COOL	MARCH 16 - APRIL 30	35-50	1-2
2. SPRING WHEAT	COOL	MARCH 16 - APRIL 30	25-35	1-2
3. SPRING BARLEY	COOL	MARCH 16 - APRIL 30	25-35	1-2
4. ANNUAL RYEGRASS	COOL	MARCH 16 - JUNE 30	10-15	1-2
5. MILLET	WARM	MAY 16 - JULY 15	3-15	1/2-3/4
6. SUDANGRASS	WARM	MAY 16 - JULY 15	5-10	1/2-3/4
7. SORGHUM	WARM	MAY 16 - JULY 15	5-10	1/2-3/4
8. WINTER WHEAT	COOL	SEPTEMBER 1 - 30	20-35	1-2
9. WINTER BARLEY	COOL	SEPTEMBER 1 - 30	20-35	1-2
10. WINTER RYE	COOL	SEPTEMBER 1 - 30	20-35	1-2
11. TRITICALE	COOL	SEPTEMBER 1 - 30	25-40	1-2

THIS TABLE WAS TAKEN FROM UDFCD FOR RECOMMENDED ANNUAL GRASSES FOR THE DENVER METROPOLITAN AREA. THIS TABLE MAY BE USED UNLESS A SITE-SPECIFIC SEED MIX IS REQUESTED AND APPROVED.

TABLE TS-1

TEMPORARY SEEDING NOTES

INSTALLATION REQUIREMENTS

1. DISTURBED AREAS ARE TO BE SEEDDED WITHIN 21 DAYS AFTER CONSTRUCTION ACTIVITY OR GRADING ENDS IF SEASON ALLOWS.

2. IF NECESSARY, SOIL IS TO BE CONDITIONED FOR PLANT GROWTH BY APPLYING TOPSOIL, FERTILIZER, OR LIME.

3. SOIL IS TO BE TILLED IMMEDIATELY PRIOR TO APPLYING SEEDS. COMPACT SOILS ESPECIALLY NEED TO BE LOOSENED.

4. SEEDING DEPTH IS TO BE 4 INCHES FOR SLOPES FLATTER THAN 2:1, AND 1 INCH FOR SLOPES STEEPER THAN 2:1.

5. ANNUAL GRASSES LISTED IN TABLE TS-1 ARE TO BE USED FOR TEMPORARY SEEDING. SEED MIXES ARE NOT TO CONTAIN ANY NOXIOUS WEED SEEDS INCLUDING RUSSIAN OR CANADIAN THISTLE, KNAWEED, PURPLE LOOSESTRIFE, EUROPEAN BINDWEED, JOHNSON GRASS, AND LEAFY SPURGE.

6. TABLE TS-1 ALSO PROVIDES REQUIREMENTS FOR SEEDING RATES, SEEDING DATES, AND PLANTING DEPTHS FOR THE APPROVED TYPES OF ANNUAL GRASSES.

7. SEEDING IS TO BE APPLIED USING MECHANICAL TYPE DRILLS EXCEPT WHERE SLOPES ARE STEEP OR ACCESS IS LIMITED THEN HYDRAULIC SEEDING MAY BE USED.

8. ALL SEEDDED AREAS ARE TO BE MULCHED (SEE FACTSHEET ON MULCHING).

9. IF HYDRAULIC SEEDING IS USED THEN HYDRAULIC MULCHING SHALL BE DONE SEPARATELY TO AVOID SEEDS BECOMING ENCAPSULATED IN THE MULCH.

MAINTENANCE REQUIREMENTS

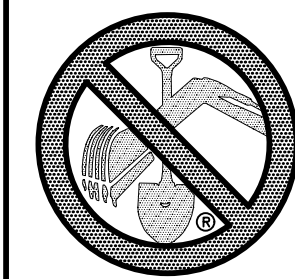
1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL SEEDDED AREAS TO ENSURE GROWTH.

2. AREAS WHERE GROWTH IS NOT OCCURRING QUICKLY OR THE MULCH HAS BEEN REMOVED SHALL BE RE-SEEDDED AS SOON AS POSSIBLE AND RE-MULCHED IF NEEDED.

3. SEEDDED AREAS ARE NOT TO BE DRIVEN OVER WITH CONSTRUCTION EQUIPMENT OR VEHICLES.

City of Colorado Springs
Stormwater Quality

Figure TS-1
Temporary Seeding
Construction Detail and Maintenance Requirements



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)

Log	Log	Log	Date	Appr.
9/10/2021	10/7/2021			
LIGHT POLES SS SERVES WATER SERVICES REX ROAD & 12" VMM (SH 1.2, 6.7, 8.3, 10.1, 12.1, 14.1, 16.2, 22.3, 24.2, 26.2, 27.2, 28.3, 31.3, 34.3, 36.3, 38)				
REVISE BOUNDARY, LOT LINES FOR 67-73, ADD TRACT F				
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE 719.495.7444 FAX 719.495.2457				
MERIDIAN RANCH				
THE ESTATES AT ROLLING HILLS RANCH-FILING 2 GRADING-EROSION CONTROL PLAN GRADING DETAIL SHEET				
Scale	AS SHOWN	43 of 44	Date	SEPT 2020
Drawn by	Log	Checked by	TAK	
PROFESSIONAL ENGINEER 31429 09-27-2021				

