ROUGH GRADING FOR ROLLING HILLS RANCH AT MERIDIAN RANCH

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

A PARCEL OF LAND LOCATED IN A PORTION OF SECTIONS 20, 21, AND 29, IN TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, EL PASO COUNTY, STATE OF COLORADO.

UTILITY CONTACTS:

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

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

DRAINAGE – EL PASO COUNTY DSD/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 UTILITES. 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, MERIDIAN SERVICE METROPOLITAN AND EL PASO COUNTY BEING THE OWNERS OF THE FOLLOWING DESCRIBED TRACT OF LAND:

A PARCEL OF LAND LOCATED IN A PORTIONS OF SECTION 20, 21, AND 29, IN TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE NORTHEASTERN MOST CORNER OF TRACT C OF MERIDIAN RANCH ESTATES FILING NO. 9, RECORDED WITH RECEPTION NO. 216713763 IN THE RECORDS OF EL PASO COUNTY, POINT BEING ON A CURVE TO THE LEFT;

1. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 330.00 FEET, A DELTA ANGLE OF 04°41'46", AN ARC LENGTH OF 27.05 FEET, WHOSE LONG CHORD BEARS N35°45'37"E A DISTANCE OF 27.04 FEET;
2. THENCE N72°56'20"E A DISTANCE OF 32.99 FEET;
3. THENCE N24°30'35"E A DISTANCE OF 60.00 FEET;
4. THENCE N22°23'52"W A DISTANCE OF 32.06 FEET;
5. THENCE N20°49'43"E A DISTANCE OF 52.81 FEET TO A CURVE TO THE LEFT;
6. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 630.00 FEET, A DELTA ANGLE OF 22°38'05", AN ARC LENGTH OF 248.88 FEET, WHOSE LONG CHORD BEARS N09°30'41"E A DISTANCE OF 247.27 FEET;
7. THENCE N42°56'08"E A DISTANCE OF 31.12 FEET;
8. THENCE N02°04'24"W A DISTANCE OF 100.00 FEET;
9. THENCE N47°04'24"W A DISTANCE OF 31.11 FEET;
10. THENCE N02°04'24"W A DISTANCE OF 45.00 FEET TO A CURVE TO THE RIGHT;
11. 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;
12. THENCE N38°41'44"E A DISTANCE OF 231.44 FEET;
13. THENCE N51°18'16"W A DISTANCE OF 60.00 FEET;
14. THENCE S83°41'44"W A DISTANCE OF 31.11 FEET;
15. THENCE N51°18'16"W A DISTANCE OF 170.23 FEET;
16. THENCE N38°41'44"E A DISTANCE OF 150.00 FEET;
17. THENCE N24°21'02"E A DISTANCE OF 300.00 FEET;
18. THENCE S59°58'56"E A DISTANCE OF 1,500.00 FEET;
19. THENCE S77°43'30"E A DISTANCE OF 2,000.00 FEET;
20. THENCE N60°12'39"E A DISTANCE OF 900.00 FEET;
21. THENCE N89°09'46"E A DISTANCE OF 1,400.00 FEET;
22. THENCE S64°12'52"E A DISTANCE OF 1,000.00 FEET;
23. THENCE S21°15'22"W A DISTANCE OF 120.00 FEET;
24. THENCE N75°53'48"W A DISTANCE OF 1,000.00 FEET;
25. THENCE S83°35'22"W A DISTANCE OF 600.00 FEET;
26. THENCE S00°13'03"E A DISTANCE OF 1,300.00 FEET;
27. THENCE S44°50'22"W A DISTANCE OF 1,426.29 FEET;
28. THENCE S56°47'59"E A DISTANCE OF 250.00 FEET;
29. THENCE S17°20'56"E A DISTANCE OF 366.37 FEET;
30. THENCE S00°00'00"E A DISTANCE OF 398.48 FEET;
31. THENCE S64°25'35"W A DISTANCE OF 1,250.00 FEET;
32. THENCE S69°41'14"W A DISTANCE OF 150.00 FEET;
33. THENCE N54°36'02"W A DISTANCE OF 225.00 FEET;
34. THENCE S86°16'43"W A DISTANCE OF 300.00 FEET;
35. THENCE N63°51'45"W A DISTANCE OF 640.00 FEET;
36. THENCE N30°07'09"W A DISTANCE OF 150.37 FEET;
37. THENCE N81°02'28"W A DISTANCE OF 138.95 FEET;
38. THENCE N05°41'51"W A DISTANCE OF 500.00 FEET;
39. THENCE N73°24'25"W A DISTANCE OF 666.76 FEET;
40. THENCE S72°14'49"W A DISTANCE OF 500.00 FEET;
41. THENCE N05°03'36"W A DISTANCE OF 165.00 FEET;
42. THENCE N20°15'12"W A DISTANCE OF 165.00 FEET;
43. THENCE N31°56'26"W A DISTANCE OF 165.00 FEET;
44. THENCE N42°44'55"W A DISTANCE OF 102.00 FEET;
45. THENCE N55°18'55"W A DISTANCE OF 75.00 FEET;
46. THENCE N36°06'38"E A DISTANCE OF 108.00 FEET;
47. THENCE N49°25'02"W A DISTANCE OF 134.00 FEET;
48. THENCE N33°45'49"W A DISTANCE OF 132.00 FEET;
49. THENCE N17°12'24"W A DISTANCE OF 137.00 FEET;
50. THENCE N09°04'29"W A DISTANCE OF 85.86 FEET;
51. THENCE N03°22'02"E A DISTANCE OF 74.77 FEET;
52. THENCE N10°04'06"W A DISTANCE OF 162.63 FEET;
53. THENCE N26°31'01"W A DISTANCE OF 218.96 FEET;
54. THENCE N06°43'25"W A DISTANCE OF 140.00 FEET;
55. THENCE N01°13'59"W A DISTANCE OF 97.14 FEET;
56. THENCE N04°28'51"E A DISTANCE OF 360.75 FEET;
57. THENCE N12°48'36"W A DISTANCE OF 91.63 FEET;
58. THENCE N22°11'16"W A DISTANCE OF 110.06 FEET;
59. THENCE N51°53'30"W A DISTANCE OF 86.13 FEET TO THE POINT OF BEGINNING.

THE ABOVE PARCEL OF LAND CONTAINS 372.925 ACRES, MORE OR LESS.

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

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)

VICINITY MAP
N.T.S.

SHEET	SHEET INDEX
1	COVER SHEET
2	INDEX SHEET
3–23	LAYOUT SHEETS
24–29	DETAIL SHEETS

GRAPHIC SCALE
600 0 300 600 1200 2400
(IN FEET)
1 inch = 600 ft.

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).

BENCH MARK

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

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

DEVELOPERS STATEMENT:

DEVELOPERS STATEMENT:

THE UNDERSIGNED DEVELOPER HAS READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE GRADING AND EROSION CONTROL PLAN AND THE ACCOMPANYING DRAINAGE REPORT.

PAUL GUZMAN, VICE PRESIDENT
GTL DEVELOPMENT, INC.
5/11/20
DATE

OWNERS STATEMENT:

OWNERS STATEMENT:

THE UNDERSIGNED OWNER HAS READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE GRADING AND EROSION CONTROL PLAN AND THE ACCOMPANYING DRAINAGE REPORT.

PAUL GUZMAN, VICE PRESIDENT
MERIDIAN RANCH INVESTMENTS, INC.
5/11/20
DATE

PAUL GUZMAN, VICE PRESIDENT
GTL DEVELOPMENT, INC.
5/11/20
DATE

DAVID A PELSER, GENERAL MANAGER
MERIDIAN SERVICE METROPOLITAN DISTRICT
5/11/20

DESIGN ENGINEER'S STATEMENT:

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THIS PLAN.

THOMAS A. KERBY, P.E. #31429
COLORADO REGISTERED PROFESSIONAL ENGINEER THOMAS A. KERBY 31429 5-11-2020
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, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

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

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

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH
ROUGH GRADING+EROSION CONTROL PLAN
COVER SHEET

Drawn by LCG | Checked by TAK | Date MAY 2020
Scale AS SHOWN | 1 of 29

PCD PROJECT NO. EGP–20–003

S:\OneDrive Crutl\Proj\Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 10:02:09 AM

EL PASO COUNTY STANDARD NOTES:

1. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF SITE WATERS, INCLUDING WETLANDS.

2. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.

3. A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.

4. ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.

5. CONTROL MEASURES MUST BE INSTALLED PRIOR COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.

6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.

7. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.

8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE 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 LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).

12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.

13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.

14. DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.

15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.

16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.

17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.

18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.

19. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.

20. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.

21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.

22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.

23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.

24. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.

25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.

26. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.

27. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.

28. THE SOILS 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 STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
WQCD - PERMITS
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNIT

GRAPHIC SCALE

400 0 200 400 800 1600

(IN FEET)

1 inch = 400 ft.

NOTE:
1) EXISTING VEGETATION ON THE PROJECT SITE AND THE IN SURROUNDING AREAS CONSISTS OF A MIXTURE OF NATIVE GRASSES AND WEEDS WITH COVERAGE APPROXIMATING 70% DENSITY UNLESS OTHERWISE NOTED. SOME AREAS HAVE NEGLIGIBLE VEGETATIVE GROWTH AT THIS TIME AS THE SITE WAS PREVIOUSLY GRADED AND RE-SEEDED OR USED AS A BUILDERS' STOCKPILE LOCATION. AREAS PREVIOUSLY GRADED HAS BEEN RE-SEEDED WITH THE APPROVED COUNTY SEED MIX.
2) MATERIAL STORAGE, TOPSOIL STOCKPILES, STAGING, CONCRETE WASHOUT AND WASTE AREAS SHALL BE IDENTIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION AND ADJUSTED AS NECESSARY.
3) THERE IS NO CONCRETE BATCH PLANT ASSOCIATED WITH THIS PROJECT.

EARTHWORK QUANTITIES

NET YARDS	BALANCE	
TOTAL STRIPPINGS	252.0 AC.	135,520 CY
	CUT	FILL
NET YARDS	531,374 CY	526,655 CY

20% COMPACTION FACTOR

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

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH
AT MERIDIAN RANCH
ROUGH GRADING-EROSION CONTROL PLAN
GRADING INDEX SHEET

Drawn by LCG
Checked by TAK
Date MAY 2020
Scale AS SHOWN
2 of 29

COLORADO LICENSED
TIMOTHY A. KNIGHT
31429
5-7-2020
PROFESSIONAL ENGINEER

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Civil\Proj\Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING index.dwg, 5/11/2020 10:00:26 AM

SEE SHEET 6

SEE SHEET 5

SEE SHEET 4

TRACT B

TRACT A

TRACT H

FILING 11A
TRACT H

TRACT B

FILING 11A
TRACT I

FUTURE
SCHOOL
SITE

LIMITS OF GRADING

LIMITS OF GRADING
FUTURE TYPE C INLET

GRADING PERMIT BOUNDARY

EX. 8" SS

EX. SSMH

TEMP. SED. BASIN LAMBERT ROAD – 3:1 SS TYPICAL (SEE APPENDIX F IN DRAINAGE REPORT FOR CALCS)

EX. 4" PARK WATER SERVICE

EX. CMP INLET (DRILL 3 COLUMNS 13/16" HOLES @ 4" VERT. SPACING)

EX. 12" PLUG & BOV REMOVE EX. PARK SERVICE

EXISTING CONCRETE BARRICADES

ROAD CLOSED R11-2

LAMBERT ROAD

FALCON HIGH SCHOOL

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft.

INDEX MAP

N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
	7150	EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
	7150	PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
	2.00%	GRADE
	75	LOT NUMBER
	A	LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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 28.

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

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

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH
ROUGH GRADING-EROSION CONTROL PLAN
PLAN SHEET

Drawn by	Checked by	Date
LCG	TAK	MAY 2020

Scale: AS SHOWN

COLORADO LICENSED PROFESSIONAL ENGINEER 31429 5-7-2020

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Civil\Proj\Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 10:03:37 AM

SEE SHEET 9

SEE SHEET 5

SEE SHEET 3

SEE SHEET 10

SEE SHEET 24

STRAW WATTLE

GRADING PERMIT BOUNDARY

EXISTING GRADING EASEMENT

EXISTING 40' DRAINAGE & GRADING EASEMENT

CURLEX I EXCELSIOR EROSION CONTROL BLANKET OR APPROVED EQUAL PLACED WITHIN 5 DAYS OF SEEDING

LIMITS OF GRADING

END REMOVAL APPROX. 600 LF OF EX. 4" & 6" PARK WATER SERVICE
N 17213.73
E 15391.96

FALCON REGIONAL PARK

EXISTING GRADING EASEMENT

EX. 6" PARK WATER SERVICE

TRACT G

TRACT E

LIMITS OF GRADING

BEGIN REMOVAL APPROX. 600 LF OF EX. 4" & 6" PARK WATER SERVICE
N 16657.28
E 15294.25

FUTURE SCHOOL SITE

GRADING PERMIT BOUNDARY

GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)

1 inch = 50 ft.

INDEX MAP

N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
	7150	EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
	7150	PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
2.00%		GRADE
75		LOT NUMBER
A		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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 28.

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

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

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH
ROUGH GRADING+EROSION CONTROL PLAN
PLAN SHEET

Drawn by LCG
Checked by TAK
Date MAY 2020
Scale AS SHOWN
4 of 29

COLORADO LICENSED THOMAS A. KEMPF 31429 5-7-2020 PROFESSIONAL ENGINEER

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Civil\Proj\Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 10:04:38 AM

INDEX MAP

N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
7150		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
7150		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
2.00%		GRADE
75		LOT NUMBER
A		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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

NOTE:
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 28.

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

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH
ROUGH GRADING-EROSION CONTROL PLAN
PLAN SHEET

Drawn by LCG
Checked by TAK
Date MAY 2020
Scale AS SHOWN
5 of 29

COLORADO LICENSED PROFESSIONAL ENGINEER 31429 5-7-2020

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Civil\Proj\Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 11:06:08 AM

SEE SHEET 7

SEE SHEET 8

SEE SHEET 5

SEE SHEET 3

TRACT C

TRACT B

TRACT B

FILING 11A
TRACT F

FILING 11A
TRACT G

FILING 3

BEGIN REMOVAL
APPROX. 320 LF OF
EX. 4" WM
N 17407.75
E 12901.66

42" RCP
(SEE SHEET 24)

LIMITS OF
GRADING

EX. 14" WM

EXISTING
PERMANENT
EROSION CONTROL
BLANKET

GRADING
PERMIT
BOUNDARY

OUTLET PROTECTION OS-2
(SEE SHEET 24)

FEMA
FLOODPLAIN
BOUNDARY

EX. 4" WM
(TO BE REMOVED)

SEE SHEET 24

STRAW
WATTLE

CURLEX I EXCELSIOR
EROSION CONTROL BLANKET
OR APPROVED EQUAL
PLACED WITHIN 5 DAYS
OF SEEDING

BEGIN REMOVAL
APPROX. 3,470 LF OF
EX. 4" WM
N 16842.61
E 13465.16

FEMA
FLOODPLAIN
BOUNDARY

LIMITS OF
GRADING

GRADING
PERMIT
BOUNDARY

INDEX MAP

N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
	7150	EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
	7150	PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
	2.00%	GRADE
	75	LOT NUMBER
	A	LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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

NOTE:
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 28.

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

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH
AT MERIDIAN RANCH
ROUGH GRADING+EROSION
CONTROL PLAN
PLAN SHEET

Drawn by LCG
Checked by TAK
Date MAY 2020
Scale AS SHOWN
6 of 29

COLORADO LICENSED
31429
5-7-2020
PROFESSIONAL ENGINEER

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Civil\Proj\Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 10:10:13 AM

SEE SHEET 15

SEE SHEET 14

SEE SHEET 8

SEE SHEET 6

LIMITS OF GRADING

EXISTING DROP STRUCTURE

EX. 14" WM

TRACT C

EXISTING DROP STRUCTURE

FEMA FLOODPLAIN BOUNDARY

GRADING PERMIT BOUNDARY

EXISTING DROP STRUCTURE

LIMITS OF GRADING

TRACT C

EXISTING DROP STRUCTURE

EX. 14" GV

EXISTING PERMANENT EROSION CONTROL BLANKET

EX. 14" WM

FILING 7

EX. 4" WM (TO BE REMOVED)

CMP INLET (SEE DETAIL SHEET 24)

TEMP. SED. BASIN POND 1, 3:1 SS TYP. (SEE APPENDIX F IN DRAINAGE REPORT FOR CALCS)

EX. 4" WM (TO BE REMOVED)

INDEX MAP

N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
7150		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
7150		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
2.00%		GRADE
75		LOT NUMBER
A		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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

NOTE:
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 28.

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

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH
AT MERIDIAN RANCH
ROUGH GRADING+EROSION
CONTROL PLAN
PLAN SHEET

Drawn by LCG
Checked by TAK
Date MAY 2020

Scale AS SHOWN

7 of 29

COLORADO LICENSED
31429
5-7-2020
PROFESSIONAL ENGINEER

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Civil\Rng-Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 10:33:31 AM

SEE SHEET 14

SEE SHEET 7

SEE SHEET 9

SEE SHEET 6

SEE SHEET 5

TRACT I

TRACT G

TRACT J

TRACT F

STRAW WATTLE

SEE SHEET 24

END REMOVAL
APPROX. 320 LF OF
EX. 4" WM
N 17655.05
E 13094.17

EX. 4" WM
(TO BE REMOVED)

CURLEX I EXCELSIOR
EROSION CONTROL BLANKET
OR APPROVED EQUAL
PLACED WITHIN 5 DAYS
OF SEEDING

INDEX MAP

N.T.S.

FALCON REGIONAL PARK

FILING 2

FILING 6

FILING 7

FILING 3

FILING 11B

FILING 11A

FALCON HIGH SCHOOL

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
7150		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
7150		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
2.00%		GRADE
75		LOT NUMBER
A		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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

NOTE:
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 28.

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

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH
AT MERIDIAN RANCH
ROUGH GRADING+EROSION
CONTROL PLAN
PLAN SHEET

Drawn by LCG
Checked by TAK
Date MAY 2020
Scale AS SHOWN
8 of 29

COLORADO LICENSED
JOSHUA K. TAYLOR
31429
5-7-2020
PROFESSIONAL ENGINEER

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Civil\Proj\Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 10:35:41 AM

INDEX MAP

N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
7150		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
7150		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
2.00%		GRADE
75		LOT NUMBER
A		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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

NOTE:
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 28.

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

N

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN PLAN SHEET

Drawn by LCG
Checked by TAK
Date MAY 2020
Scale AS SHOWN
9 of 29

COLORADO LICENSED
31429
5-7-2020
PROFESSIONAL ENGINEER

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Civil\Rog Rolling Hills Filing 1\BWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 10:38:12 AM

ULTIMATE FINAL FUTURE FLOWS
DETENTION POND G
100-YEAR STORAGE VOLUME = 2.54 AC-FT
100-YEAR STORAGE ELEVATION = 7030.30
Q_{100} IN = 694 CFS
Q_{100} OUT = 479 CFS
5-YEAR STORAGE VOLUME = 8.2 AC-FT
5-YEAR STORAGE ELEVATION = 7027.40
Q_5 IN = 73 CFS
Q_5 OUT = 21 CFS
WQCV = 0.9 AC-FT

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

INDEX MAP

N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
2.00%		GRADE
75		LOT NUMBER
A		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS

NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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 28.

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

N

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH
AT MERIDIAN RANCH
ROUGH GRADING/EROSION
CONTROL PLAN
PLAN SHEET

Drawn by LCG
Checked by TAK
Date MAY 2020
Scale AS SHOWN
10 of 29

COLORADO LICENSED
31429
5-7-2020
PROFESSIONAL ENGINEER

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Civil\Proj-Rolling Hills Filing 1\BWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 10:40:02 AM

INDEX MAP

N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
7150		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
7150		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
2.00%		GRADE
75		LOT NUMBER
A		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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

NOTE:
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 28.

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

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH
ROUGH GRADING&EROSION CONTROL PLAN PLAN SHEET

Drawn by	Checked by	Date
LCG	TAK	MAY 2020

Scale AS SHOWN

11 of 29

COLORADO LICENSED PROFESSIONAL ENGINEER 31429 5-7-2020

PCD PROJECT NO. EGP-20-003

S:\OneDrive Crutl\Rog\Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 10:42:14 AM

INDEX MAP

N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
	7150	EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
	7150	PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
	2.00%	GRADE
	75	LOT NUMBER
	A	LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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

NOTE:
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 28.

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

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH
ROUGH GRADING-EROSION CONTROL PLAN
PLAN SHEET

Drawn by	Checked by	Date
LCG	TAK	MAY 2020

Scale	
AS SHOWN	12 of 29

COLORADO LICENSED
THOMAS A. KERSEY
31429
5-7-2020
PROFESSIONAL ENGINEER

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Civil\Proj\Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 10:45:10 AM

SEE SHEET 19

TRACT I

TRACT G

LIMITS OF GRADING

CURLEX I EXCELSIOR EROSION CONTROL BLANKET OR APPROVED EQUAL PLACED WITHIN 5 DAYS OF SEEDING

CHANNEL BANK PROTECTION 87 CY TYPE L RIP-RAP (1.5' THICK)

4' X 10' X 1.5' TYPE L RIP-RAP 2.2 CY

STRAW WATTLE

SEE SHEET 24

CHANNEL BANK PROTECTION 323 CY TYPE L RIP-RAP (1.5' THICK)

SEE SHEET 12

SEE SHEET 14

SEE SHEET 9

INDEX MAP

N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
7150		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
7150		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
2.00%		GRADE
75		LOT NUMBER
A		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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

NOTE:
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 28.

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

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH
ROUGH GRADING&EROSION CONTROL PLAN
PLAN SHEET

Drawn by LCG
Checked by TAK
Date MAY 2020
Scale AS SHOWN
13 of 29

COLORADO LICENSED PROFESSIONAL ENGINEER 31429 5-7-2020

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Civil\Rog-Rolling Hills Filing 1\RWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 10:44:45 AM

INDEX MAP

N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
2.00%		GRADE
75		LOT NUMBER
A		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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

NOTE:
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 28.

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

N

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN PLAN SHEET

Drawn by: LCG
Checked by: TAK
Date: MAY 2020
Scale: AS SHOWN
14 of 29

COLORADO LICENSED PROFESSIONAL ENGINEER 31429 5-7-2020

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Civil\Rng Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 10:04:47 AM

INDEX MAP

N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
7150		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
7150		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
2.00%		GRADE
75		LOT NUMBER
A		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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

NOTE:
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 28.

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

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH
ROUGH GRADING+EROSION CONTROL PLAN
PLAN SHEET

Drawn by LCG
Checked by TAK
Date MAY 2020
Scale AS SHOWN
15 of 29

COLORADO LICENSED PROFESSIONAL ENGINEER 31429 5-7-2020

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Civil\Rp\Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 10:58:23 AM

INDEX MAP

N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
	7150	EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
	7150	PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
	2.00%	GRADE
	75	LOT NUMBER
	A	LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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

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 28.

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

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH
AT MERIDIAN RANCH
ROUGH GRADING+EROSION CONTROL PLAN
PLAN SHEET

Drawn by LCG | Checked by TAK | Date MAY 2020

Scale AS SHOWN | 16 of 29

COLORADO LICENSED PROFESSIONAL ENGINEER 31429 5-7-2020

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Civil\Proj\Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 11:13:36 AM

INDEX MAP

N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
	2.00%	GRADE
	75	LOT NUMBER
	A	LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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

NOTE:
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 28.

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

N

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH
ROUGH GRADING/EROSION CONTROL PLAN
PLAN SHEET

Drawn by LCG
Checked by TAK
Date MAY 2020
Scale AS SHOWN
17 of 29

COLORADO LICENSED
TERRY A. KNOX
31429
5-7-2020
PROFESSIONAL ENGINEER

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Civil\rog-Rolling Hills Filing 1\BWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 11:14:59 AM

INDEX MAP

N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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

NOTE:
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 28.

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

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING&EROSION CONTROL PLAN PLAN SHEET

Drawn by LCG
Checked by TJK
Date MAY 2020
Scale AS SHOWN

COLORADO LICENSED TIMOTHY J. KNIGHT 31429 PROFESSIONAL ENGINEER
5-7-2020

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Civil\Proj\Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 11:16:10 AM

INDEX MAP

N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
	7150	EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
	7150	PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
	2.00%	GRADE
	75	LOT NUMBER
	A	LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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

NOTE:
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 28.

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

N

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING-EROSION CONTROL PLAN PLAN SHEET

Drawn by	Checked by	Date
LCG	TAK	MAY 2020

Scale	
AS SHOWN	19 of 29

COLORADO LICENSED PROFESSIONAL ENGINEER 31429 5-7-2020

PCD PROJECT NO. EGP-20-003

G:\OneDrive-CivilProp\Rolling Hills Filing 1\DWG\Plan Sheet\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/12/2020 11:19:54 AM

INDEX MAP

N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
	7150	EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
	7150	PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
	2.00%	GRADE
	75	LOT NUMBER
	A	LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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

NOTE:
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 28.

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

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH
AT MERIDIAN RANCH
ROUGH GRADING+EROSION CONTROL PLAN
PLAN SHEET

Drawn by LCG
Checked by TAK
Date MAY 2020
Scale AS SHOWN
20 of 29

COLORADO LICENSED 31429 PROFESSIONAL ENGINEER 5-7-2020

PCD PROJECT NO. EGP-20-003

S:\OneDrive CivilProj\Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 11:24:30 AM

INDEX MAP

N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
7150		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
7150		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
2.00%		GRADE
75		LOT NUMBER
A		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

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

NOTE:
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 28.

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

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH AT MERIDIAN RANCH ROUGH GRADING&EROSION CONTROL PLAN PLAN SHEET

Drawn by LCG
Checked by TAK
Date MAY 2020
Scale AS SHOWN
21 of 29

COLORADO LICENSED PROFESSIONAL ENGINEER 31429 5-7-2020

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Civil\Rng\Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 11:29:36 AM

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 28.

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

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
7150		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
7150		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
2.00%		GRADE
75		LOT NUMBER
A		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

INDEX MAP
N.T.S.

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH
AT MERIDIAN RANCH
ROUGH GRADING-EROSION CONTROL PLAN
PLAN SHEET

Drawn by LCG
Checked by TJK
Date MAY 2020
Scale AS SHOWN
22 of 29

COLORADO LICENSED THOMAS J. KNOWLES 31429 PROFESSIONAL ENGINEER
5-7-2020

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Civil\Proj\Rolling Hills Filing 1\DWG\Plan Sheet\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/12/2020 11:17:34 AM

TRACT A
TRACT B
TRACT C
TRACT D
TRACT E
TRACT F
TRACT G
TRACT H
TRACT I
TRACT J
TRACT K
TRACT L
TRACT M
TRACT N
TRACT O
TRACT P
TRACT Q
TRACT R
TRACT S
TRACT T
TRACT U
TRACT V
TRACT W
TRACT X
TRACT Y
TRACT Z
TRACT AA
TRACT BB
TRACT CC
TRACT DD
TRACT EE
TRACT FF
TRACT GG
TRACT HH
TRACT II
TRACT JJ
TRACT KK
TRACT LL
TRACT MM
TRACT NN
TRACT OO
TRACT PP
TRACT QQ
TRACT RR
TRACT SS
TRACT TT
TRACT UU
TRACT VV
TRACT WW
TRACT XX
TRACT YY
TRACT ZZ
TRACT AAA
TRACT BBB
TRACT CCC
TRACT DDD
TRACT EEE
TRACT FFF
TRACT GGG
TRACT HHH
TRACT III
TRACT JJJ
TRACT KKK
TRACT LLL
TRACT MMM
TRACT NNN
TRACT OOO
TRACT PPP
TRACT QQQ
TRACT RRR
TRACT SSS
TRACT TTT
TRACT UUU
TRACT VVV
TRACT WWW
TRACT XXX
TRACT YYY
TRACT ZZZ
TRACT AAAA
TRACT BBBB
TRACT CCCC
TRACT DDDD
TRACT EEEE
TRACT FFFF
TRACT GGGG
TRACT HHHH
TRACT IIII
TRACT JJJJ
TRACT KKKK
TRACT LLLL
TRACT MMMM
TRACT NNNN
TRACT OOOO
TRACT PPPP
TRACT QQQQ
TRACT RRRR
TRACT SSSS
TRACT TTTT
TRACT UUUU
TRACT VVVV
TRACT WWWW
TRACT XXXX
TRACT YYYY
TRACT ZZZZ
TRACT AAAAA
TRACT BBBBB
TRACT CCCCC
TRACT DDDDD
TRACT EEEEE
TRACT FFFFF
TRACT GGGGG
TRACT HHHHH
TRACT IIIII
TRACT JJJJJ
TRACT KKKKK
TRACT LLLLL
TRACT MMMMM
TRACT NNNNN
TRACT OOOOO
TRACT PPPPP
TRACT QQQQQ
TRACT RRRRR
TRACT SSSSS
TRACT TTTTT
TRACT UUUUU
TRACT VVVVV
TRACT WWWWW
TRACT XXXXX
TRACT YYYYY
TRACT ZZZZZ
TRACT AAAAAA
TRACT BBBBBB
TRACT CCCCCC
TRACT DDDDDD
TRACT EEEEEE
TRACT FFFFFF
TRACT GGGGGG
TRACT HHHHHH
TRACT IIIIII
TRACT JJJJJJ
TRACT KKKKKK
TRACT LLLLLL
TRACT MMMMMM
TRACT NNNNNN
TRACT OOOOOO
TRACT PPPPPP
TRACT QQQQQQ
TRACT RRRRRR
TRACT SSSSSS
TRACT TTTTTT
TRACT UUUUUU
TRACT VVVVVV
TRACT WWWWWW
TRACT XXXXXX
TRACT YYYYYY
TRACT ZZZZZZ
TRACT AAAAAAA
TRACT BBBBBBB
TRACT CCCCCCC
TRACT DDDDDDD
TRACT EEEEEEE
TRACT FFFFFFF
TRACT GGGGGGG
TRACT HHHHHHH
TRACT IIIIIII
TRACT JJJJJJJ
TRACT KKKKKKK
TRACT LLLLLLL
TRACT MMMMMMM
TRACT NNNNNNN
TRACT OOOOOOO
TRACT PPPPPPP
TRACT QQQQQQQ
TRACT RRRRRRR
TRACT SSSSSSS
TRACT TTTTTTT
TRACT UUUUUUU
TRACT VVVVVVV
TRACT WWWWWWW
TRACT XXXXXXX
TRACT YYYYYYY
TRACT ZZZZZZZ
TRACT AAAAAAAA
TRACT BBBBBBBB
TRACT CCCCCCCC
TRACT DDDDDDDD
TRACT EEEEEEEE
TRACT FFFFFFFF
TRACT GGGGGGGG
TRACT HHHHHHHH
TRACT IIIIIIII
TRACT JJJJJJJJ
TRACT KKKKKKKK
TRACT LLLLLLLL
TRACT MMMMMMMM
TRACT NNNNNNNN
TRACT OOOOOOOO
TRACT PPPPPPPP
TRACT QQQQQQQQ
TRACT RRRRRRRR
TRACT SSSSSSSS
TRACT TTTTTTTT
TRACT UUUUUUUU
TRACT VVVVVVVV
TRACT WWWWWWWW
TRACT XXXXXXXX
TRACT YYYYYYYY
TRACT ZZZZZZZZ
TRACT AAAAAAAAA
TRACT BBBBBBBBB
TRACT CCCCCCCCC
TRACT DDDDDDDDD
TRACT EEEEEEEEE
TRACT FFFFFFFFF
TRACT GGGGGGGGG
TRACT HHHHHHHHH
TRACT IIIIIIIII
TRACT JJJJJJJJJ
TRACT KKKKKKKKK
TRACT LLLLLLLLL
TRACT MMMMMMMMM
TRACT NNNNNNNNN
TRACT OOOOOOOOO
TRACT PPPPPPPPP
TRACT QQQQQQQQQ
TRACT RRRRRRRRR
TRACT SSSSSSSSS
TRACT TTTTTTTTT
TRACT UUUUUUUUU
TRACT VVVVVVVVV
TRACT WWWWWWWWW
TRACT XXXXXXXXX
TRACT YYYYYYYYY
TRACT ZZZZZZZZZ
TRACT AAAAAAAAAA
TRACT BBBBBBBBBB
TRACT CCCCCCCCCC
TRACT DDDDDDDDDD
TRACT EEEEEEEEEE
TRACT FFFFFFFFFF
TRACT GGGGGGGGGG
TRACT HHHHHHHHHH
TRACT IIIIIIIIII
TRACT JJJJJJJJJJ
TRACT KKKKKKKKKK
TRACT LLLLLLLLLL
TRACT MMMMMMMMMM
TRACT NNNNNNNNNN
TRACT OOOOOOOOOO
TRACT PPPPPPPPPP
TRACT QQQQQQQQQQ
TRACT RRRRRRRRRR
TRACT SSSSSSSSSS
TRACT TTTTTTTTTT
TRACT UUUUUUUUUU
TRACT VVVVVVVVVV
TRACT WWWWWWWWWW
TRACT XXXXXXXXXX
TRACT YYYYYYYYYY
TRACT ZZZZZZZZZZ
TRACT AAAAAAAAAAA
TRACT BBBBBBBBBBB
TRACT CCCCCCCCCCC
TRACT DDDDDDDDDDD
TRACT EEEEEEEEEEE
TRACT FFFFFFFFFFF
TRACT GGGGGGGGGGG
TRACT HHHHHHHHHHH
TRACT IIIIIIIIIII
TRACT JJJJJJJJJJJ
TRACT KKKKKKKKKKK
TRACT LLLLLLLLLLL
TRACT MMMMMMMMMMM
TRACT NNNNNNNNNNN
TRACT OOOOOOOOOOO
TRACT PPPPPPPPPPP
TRACT QQQQQQQQQQQ
TRACT RRRRRRRRRRR
TRACT SSSSSSSSSSS
TRACT TTTTTTTTTTT
TRACT UUUUUUUUUUU
TRACT VVVVVVVVVVV
TRACT WWWWWWWWWWW
TRACT XXXXXXXXXXX
TRACT YYYYYYYYYYY
TRACT ZZZZZZZZZZZ
TRACT AAAAAAAAAAAA
TRACT BBBBBBBBBBBB
TRACT CCCCCCCCCCCC
TRACT DDDDDDDDDDDD
TRACT EEEEEEEEEEEE
TRACT FFFFFFFFFFFF
TRACT GGGGGGGGGGGG
TRACT HHHHHHHHHHHH
TRACT IIIIIIIIIIII
TRACT JJJJJJJJJJJJ
TRACT KKKKKKKKKKKK
TRACT LLLLLLLLLLLL
TRACT MMMMMMMMMMMM
TRACT NNNNNNNNNNNN
TRACT OOOOOOOOOOOO
TRACT PPPPPPPPPPPP
TRACT QQQQQQQQQQQQ
TRACT RRRRRRRRRRRR
TRACT SSSSSSSSSSSS
TRACT TTTTTTTTTTTT
TRACT UUUUUUUUUUUU
TRACT VVVVVVVVVVVV
TRACT WWWWWWWWWWWW
TRACT XXXXXXXXXXXX
TRACT YYYYYYYYYYYY
TRACT ZZZZZZZZZZZZ
TRACT AAAAAAAAAAAAA
TRACT BBBBBBBBBBBBB
TRACT CCCCCCCCCCCCC
TRACT DDDDDDDDDDDDD
TRACT EEEEEEEEEEEEE
TRACT FFFFFFFFFFFFF
TRACT GGGGGGGGGGGGG
TRACT HHHHHHHHHHHHH
TRACT IIIIIIIIIIIII
TRACT JJJJJJJJJJJJJ
TRACT KKKKKKKKKKKKK
TRACT LLLLLLLLLLLLL
TRACT MMMMMMMMMMMMM
TRACT NNNNNNNNNNNNN
TRACT OOOOOOOOOOOOO
TRACT PPPPPPPPPPPPP
TRACT QQQQQQQQQQQQQ
TRACT RRRRRRRRRRRRR
TRACT SSSSSSSSSSSSS
TRACT TTTTTTTTTTTTT
TRACT UUUUUUUUUUUUU
TRACT VVVVVVVVVVVVV
TRACT WWWWWWWWWWWWW
TRACT XXXXXXXXXXXXX
TRACT YYYYYYYYYYYYY
TRACT ZZZZZZZZZZZZZ
TRACT AAAAAAAAAAAAAA
TRACT BBBBBBBBBBBBBB
TRACT CCCCCCCCCCCCCC
TRACT DDDDDDDDDDDDDD
TRACT EEEEEEEEEEEEEE
TRACT FFFFFFFFFFFFFF
TRACT GGGGGGGGGGGGGG
TRACT HHHHHHHHHHHHHH
TRACT IIIIIIIIIIIIII
TRACT JJJJJJJJJJJJJJ
TRACT KKKKKKKKKKKKKK
TRACT LLLLLLLLLLLLLL
TRACT MMMMMMMMMMMMMM
TRACT NNNNNNNNNNNNNN
TRACT OOOOOOOOOOOOOO
TRACT PPPPPPPPPPPPPP
TRACT QQQQQQQQQQQQQQ
TRACT RRRRRRRRRRRRRR
TRACT SSSSSSSSSSSSSS
TRACT TTTTTTTTTTTTTT
TRACT UUUUUUUUUUUUUU
TRACT VVVVVVVVVVVVVV
TRACT WWWWWWWWWWWWWW
TRACT XXXXXXXXXXXXXX
TRACT YYYYYYYYYYYYYY
TRACT ZZZZZZZZZZZZZZ
TRACT AAAAAAAAAAAAAAA
TRACT BBBBBBBBBBBBBBB
TRACT CCCCCCCCCCCCCCC
TRACT DDDDDDDDDDDDDDD
TRACT EEEEEEEEEEEEEEE
TRACT FFFFFFFFFFFFFFF
TRACT GGGGGGGGGGGGGGG
TRACT HHHHHHHHHHHHHHH
TRACT IIIIIIIIIIIIIII
TRACT JJJJJJJJJJJJJJJ
TRACT KKKKKKKKKKKKKKK
TRACT LLLLLLLLLLLLLLL
TRACT MMMMMMMMMMMMMMM
TRACT NNNNNNNNNNNNNNN
TRACT OOOOOOOOOOOOOOO
TRACT PPPPPPPPPPPPPPP
TRACT QQQQQQQQQQQQQQQ
TRACT RRRRRRRRRRRRRRR
TRACT SSSSSSSSSSSSSSS
TRACT TTTTTTTTTTTTTTT
TRACT UUUUUUUUUUUUUUU
TRACT VVVVVVVVVVVVVVV
TRACT WWWWWWWWWWWWWWW
TRACT XXXXXXXXXXXXXXX
TRACT YYYYYYYYYYYYYYY
TRACT ZZZZZZZZZZZZZZZ
TRACT AAAAAAAAAAAAAAAA
TRACT BBBBBBBBBBBBBBBB
TRACT CCCCCCCCCCCCCCCC
TRACT DDDDDDDDDDDDDDDD
TRACT EEEEEEEEEEEEEEEE
TRACT FFFFFFFFFFFFFFFF
TRACT GGGGGGGGGGGGGGGG
TRACT HHHHHHHHHHHHHHHH
TRACT IIIIIIIIIIIIIIII
TRACT JJJJJJJJJJJJJJJJ
TRACT KKKKKKKKKKKKKKKK
TRACT LLLLLLLLLLLLLLLL
TRACT MMMMMMMMMMMMMMMM
TRACT NNNNNNNNNNNNNNNN
TRACT OOOOOOOOOOOOOOOO
TRACT PPPPPPPPPPPPPPPP
TRACT QQQQQQQQQQQQQQQQ
TRACT RRRRRRRRRRRRRRRR
TRACT SSSSSSSSSSSSSSSS
TRACT TTTTTTTTTTTTTTTT
TRACT UUUUUUUUUUUUUUUU
TRACT VVVVVVVVVVVVVVVV
TRACT WWWWWWWWWWWWWWWW
TRACT XXXXXXXXXXXXXXXX
TRACT YYYYYYYYYYYYYYYY
TRACT ZZZZZZZZZZZZZZZZ
TRACT AAAAAAAAAAAAAAAAA
TRACT BBBBBBBBBBBBBBBBB
TRACT CCCCCCCCCCCCCCCCC
TRACT DDDDDDDDDDDDDDDDD
TRACT EEEEEEEEEEEEEEEEE
TRACT FFFFFFFFFFFFFFFFF
TRACT GGGGGGGGGGGGGGGGG
TRACT HHHHHHHHHHHHHHHHH
TRACT IIIIIIIIIIIIIIIII
TRACT JJJJJJJJJJJJJJJJJ
TRACT KKKKKKKKKKKKKKKKK
TRACT LLLLLLLLLLLLLLLLL
TRACT MMMMMMMMMMMMMMMMM
TRACT NNNNNNNNNNNNNNNNN
TRACT OOOOOOOOOOOOOOOOO
TRACT PPPPPPPPPPPPPPPPP
TRACT QQQQQQQQQQQQQQQQQ
TRACT RRRRRRRRRRRRRRRRR
TRACT SSSSSSSSSSSSSSSSS
TRACT TTTTTTTTTTTTTTTTT
TRACT UUUUUUUUUUUUUUUUU
TRACT VVVVVVVVVVVVVVVVV
TRACT WWWWWWWWWWWWWWWWW
TRACT XXXXXXXXXXXXXXXXX
TRACT YYYYYYYYYYYYYYYYY
TRACT ZZZZZZZZZZZZZZZZZ
TRACT AAAAAAAAAAAAAAAAAA
TRACT BBBBBBBBBBBBBBBBBB
TRACT CCCCCCCCCCCCCCCCCC
TRACT DDDDDDDDDDDDDDDDDD
TRACT EEEEEEEEEEEEEEEEEE
TRACT FFFFFFFFFFFFFFFFFF
TRACT GGGGGGGGGGGGGGGGGG
TRACT HHHHHHHHHHHHHHHHHH
TRACT IIIIIIIIIIIIIIIIII
TRACT JJJJJJJJJJJJJJJJJJ
TRACT KKKKKKKKKKKKKKKKKK
TRACT LLLLLLLLLLLLLLLLLL
TRACT MMMMMMMMMMMMMMMMMM
TRACT NNNNNNNNNNNNNNNNNN
TRACT OOOOOOOOOOOOOOOOOO
TRACT PPPPPPPPPPPPPPPPPP
TRACT QQQQQQQQQQQQQQQQQQ
TRACT RRRRRRRRRRRRRRRRRR
TRACT SSSSSSSSSSSSSSSSSS
TRACT TTTTTTTTTTTTTTTTTT
TRACT UUUUUUUUUUUUUUUUUU
TRACT VVVVVVVVVVVVVVVVVV
TRACT WWWWWWWWWWWWWWWWWW
TRACT XXXXXXXXXXXXXXXXXX
TRACT YYYYYYYYYYYYYYYYYY
TRACT ZZZZZZZZZZZZZZZZZZ
TRACT AAAAAAAAAAAAAAAAAAA
TRACT BBBBBBBBBBBBBBBBBBB
TRACT CCCCCCCCCCCCCCCCCCC
TRACT DDDDDDDDDDDDDDDDDDD
TRACT EEEEEEEEEEEEEEEEEEE
TRACT FFFFFFFFFFFFFFFFFFF
TRACT GGGGGGGGGGGGGGGGGGG
TRACT HHHHHHHHHHHHHHHHHHH
TRACT IIIIIIIIIIIIIIIIIII
TRACT JJJJJJJJJJJJJJJJJJJ
TRACT KKKKKKKKKKKKKKKKKKK
TRACT LLLLLLLLLLLLLLLLLLL
TRACT MMMMMMMMMMMMMMMMMMM
TRACT NNNNNNNNNNNNNNNNNNN
TRACT OOOOOOOOOOOOOOOOOOO
TRACT PPPPPPPPPPPPPPPPPPP
TRACT QQQQQQQQQQQQQQQQQQQ
TRACT RRRRRRRRRRRRRRRRRRR
TRACT SSSSSSSSSSSSSSSSSSS
TRACT TTTTTTTTTTTTTTTTTTT
TRACT UUUUUUUUUUUUUUUUUUU
TRACT VVVVVVVVVVVVVVVVVVV
TRACT WWWWWWWWWWWWWWWWWWW
TRACT XXXXXXXXXXXXXXXXXXX
TRACT YYYYYYYYYYYYYYYYYYY
TRACT ZZZZZZZZZZZZZZZZZZZ
TRACT AAAAAAAAAAAAAAAAAAAA
TRACT BBBBBBBBBBBBBBBBBBBB
TRACT CCCCCCCCCCCCCCCCCCCC
TRACT DDDDDDDDDDDDDDDDDDDD
TRACT EEEEEEEEEEEEEEEEEEEE
TRACT FFFFFFFFFFFFFFFFFFFF
TRACT GGGGGGGGGGGGGGGGGGGG
TRACT HHHHHHHHHHHHHHHHHHHH
TRACT IIIIIIIIIIIIIIIIIIII
TRACT JJJJJJJJJJJJJJJJJJJJ
TRACT KKKKKKKKKKKKKKKKKKKK
TRACT LLLLLLLLLLLLLLLLLLLL
TRACT MMMMMMMMMMMMMMMMMMMM
TRACT NNNNNNNNNNNNNNNNNNNN
TRACT OOOOOOOOOOOOOOOOOOOO
TRACT PPPPPPPPPPPPPPPPPPPP
TRACT QQQQQQQQQQQQQQQQQQQQ
TRACT RRRRRRRRRRRRRRRRRRRR
TRACT SSSSSSSSSSSSSSSSSSSS
TRACT TTTTTTTTTTTTTTTTTTTT
TRACT UUUUUUUUUUUUUUUUUUUU
TRACT VVVVVVVVVVVVVVVVVVVV
TRACT WWWWWWWWWWWWWWWWWWWW
TRACT XXXXXXXXXXXXXXXXXXXX
TRACT YYYYYYYYYYYYYYYYYYYY
TRACT ZZZZZZZZZZZZZZZZZZZZ
TRACT AAAAAAAAAAAAAAAAAAAAA
TRACT BBBBBBBBBBBBBBBBBBBBB
TRACT CCCCCCCCCCCCCCCCCCCCC
TRACT DDDDDDDDDDDDDDDDDDDDD
TRACT EEEEEEEEEEEEEEEEEEEEE
TRACT FFFFFFFFFFFFFFFFFFFFF
TRACT GGGGGGGGGGGGGGGGGGGGG
TRACT HHHHHHHHHHHHHHHHHHHHH
TRACT IIIIIIIIIIIIIIIIIIIII
TRACT JJJJJJJJJJJJJJJJJJJJJ
TRACT KKKKKKKKKKKKKKKKKKKKK
TRACT LLLLLLLLLLLLLLLLLLLLL
TRACT MMMMMMMMMMMMMMMMMMMMM
TRACT NNNNNNNNNNNNNNNNNNNNN
TRACT OOOOOOOOOOOOOOOOOOOOO
TRACT PPPPPPPPPPPPPPPPPPPPP
TRACT QQQQQQQQQQQQQQQQQQQQQ
TRACT RRRRRRRRRRRRRRRRRRRRR
TRACT SSSSSSSSSSSSSSSSSSSSS
TRACT TTTTTTTTTTTTTTTTTTTTT
TRACT UUUUUUUUUUUUUUUUUUUUU
TRACT VVVVVVVVVVVVVVVVVVVVV
TRACT WWWWWWWWWWWWWWWWWWWWW
TRACT XXXXXXXXXXXXXXXXXXXXX
TRACT YYYYYYYYYYYYYYYYYYYYY
TRACT ZZZZZZZZZZZZZZZZZZZZZ
TRACT AAAAAAAAAAAAAAAAAAAAAA
TRACT BBBBBBBBBBBBBBBBBBBBBB
TRACT CCCCCCCCCCCCCCCCCCCCCC
TRACT DDDDDDDDDDDDDDDDDDDDDD
TRACT EEEEEEEEEEEEEEEEEEEEEE
TRACT FFFFFFFFFFFFFFFFFFFFFF
TRACT GGGGGGGGGGGGGGGGGGGGGG
TRACT HHHHHHHHHHHHHHHHHHHHHH
TRACT IIIIIIIIIIIIIIIIIIIIII
TRACT JJJJJJJJJJJJJJJJJJJJJJ
TRACT KKKKKKKKKKKKKKKKKKKKKK
TRACT LLLLLLLLLLLLLLLLLLLLLL
TRACT MMMMMMMMMMMMMMMMMMMMMM
TRACT NNNNNNNNNNNNNNNNNNNNNN
TRACT OOOOOOOOOOOOOOOOOOOOOO
TRACT PPPPPPPPPPPPPPPPPPPPPP
TRACT QQQQQQQQQQQQQQQQQQQQQQ
TRACT RRRRRRRRRRRRRRRRRRRRRR
TRACT SSSSSSSSSSSSSSSSSSSSSS
TRACT TTTTTTTTTTTTTTTTTTTTTT
TRACT UUUUUUUUUUUUUUUUUUUUUU
TRACT VVVVVVVVVVVVVVVVVVVVVV
TRACT WWWWWWWWWWWWWWWWWWWWWW
TRACT XXXXXXXXXXXXXXXXXXXXXX
TRACT YYYYYYYYYYYYYYYYYYYYYY
TRACT ZZZZZZZZZZZZZZZZZZZZZZ
TRACT AAAAAAAAAAAAAAAAAAAAAAA
TRACT BBBBBBBBBBBBBBBBBBBBBBB
TRACT CCCCCCCCCCCCCCCCCCCCCCC
TRACT DDDDDDDDDDDDDDDDDDDDDDD
TRACT EEEEEEEEEEEEEEEEEEEEEEE
TRACT FFFFFFFFFFFFFFFFFFFFFFF
TRACT GGGGGGGGGGGGGGGGGGGGGGG
TRACT HHHHHHHHHHHHHHHHHHHHHHH
TRACT IIIIIIIIIIIIIIIIIIIIIII
TRACT JJJJJJJJJJJJJJJJJJJJJJJ
TRACT KKKKKKKKKKKKKKKKKKKKKKK
TRACT LLLLLLLLLLLLLLLLLLLLLLL
TRACT MMMMMMMMMMMMMMMMMMMMMMM
TRACT NNNNNNNNNNNNNNNNNNNNNNN
TRACT OOOOOOOOOOOOOOOOOOOOOOO
TRACT PPPPPPPPPPPPPPPPPPPPPPP
TRACT QQQQQQQQQQQQQQQQQQQQQQQ
TRACT RRRRRRRRRRRRRRRRRRRRRRR
TRACT SSSSSSSSSSSSSSSSSSSSSSS
TRACT TTTTTTTTTTTTTTTTTTTTTTT
TRACT UUUUUUUUUUUUUUUUUUUUUUU
TRACT VVVVVVVVVVVVVVVVVVVVVVV
TRACT WWWWWWWWWWWWWWWWWWWWWWW
TRACT XXXXXXXXXXXXXXXXXXXXXXX
TRACT YYYYYYYYYYYYYYYYYYYYYYY
TRACT ZZZZZZZZZZZZZZZZZZZZZZZ
TRACT AAAAAAAAAAAAAAAAAAAAAAAA
TRACT BBBBBBBBBBBBBBBBBBBBBBBB
TRACT CCCCCCCCCCCCCCCCCCCCCCCC
TRACT DDDDDDDDDDDDDDDDDDDDDDDD
TRACT EEEEEEEEEEEEEEEEEEEEEEEE
TRACT FFFFFFFFFFFFFFFFFFFFFFFF
TRACT GGGGGGGGGGGGGGGGGGGGGGGG
TRACT HHHHHHHHHHHHHHHHHHHHHHHH
TRACT IIIIIIIIIIIIIIIIIIIIIIII
TRACT JJJJJJJJJJJJJJJJJJJJJJJJ
TRACT KKKKKKKKKKKKKKKKKKKKKKKK
TRACT LLLLLLLLLLLLLLLLLLLLLLLL
TRACT MMMMMMMMMMMMMMMMMMMMMMMM
TRACT NNNNNNNNNNNNNNNNNNNNNNNN
TRACT OOOOOOOOOOOOOOOOOOOOOOOO
TRACT PPPPPPPPPPPPPPPPPPPPPPPP
TRACT QQQQQQQQQQQQQQQQQQQQQQQQ
TRACT RRRRRRRRRRRRRRRRRRRRRRRR
TRACT SSSSSSSSSSSSSSSSSSSSSSSS
TRACT TTTTTTTTTTTTTTTTTTTTTTTT
TRACT UUUUUUUUUUUUUUUUUUUUUUUU
TRACT VVVVVVVVVVVVVVVVVVVVVVVV
TRACT WWWWWWWWWWWWWWWWWWWWWWWW
TRACT XXXXXXXXXXXXXXXXXXXXXXXX
TRACT YYYYYYYYYYYYYYYYYYYYYYYY
TRACT ZZZZZZZZZZZZZZZZZZZZZZZZ
TRACT AAAAAAAAAAAAAAAAAAAAAAAAA
TRACT BBBBBBBBBBBBBBBBBBBBBBBBB
TRACT CCCCCCCCCCCCCCCCCCCCCCCCC
TRACT DDDDDDDDDDDDDDDDDDDDDDDDD
TRACT EEEEEEEEEEEEEEEEEEEEEEEEE
TRACT FFFFFFFFFFFFFFFFFFFFFFFFF
TRACT GGGGGGGGGGGGGGGGGGGGGGGGG
TRACT HHHHHHHHHHHHHHHHHHHHHHHHH
TRACT IIIIIIIIIIIIIIIIIIIIIIIII
TRACT JJJJJJJJJJJJJJJJJJJJJJJJJ
TRACT KKKKKKKKKKKKKKKKKKKKKKKKK
TRACT LLLLLLLLLLLLLLLLLLLLLLLLL
TRACT MMMMMMMMMMMMMMMMMMMMMMMMM
TRACT NNNNNNNNNNNNNNNNNNNNNNNNN
TRACT OOOOOOOOOOOOOOOOOOOOOOOOO
TRACT PPPPPPPPPPPPPPPPPPPPPPPPP
TRACT QQQQQQQQQQQQQQQQQQQQQQQQQ
TRACT RRRRRRRRRRRRRRRRRRRRRRRRR
TRACT SSSSSSSSSSSSSSSSSSSSSSSSS
TRACT TTTTTTTTTTTTTTTTTTTTTTTTT
TRACT UUUUUUUUUUUUUUUUUUUUUUUUU
TRACT VVVVVVVVVVVVVVVVVVVVVVVVV
TRACT WWWWWWWWWWWWWWWWWWWWWWWWW
TRACT XXXXXXXXXXXXXXXXXXXXXXXXX
TRACT YYYYYYYYYYYYYYYYYYYYYYYYY
TRACT ZZZZZZZZZZZZZZZZZZZZZZZZZ
TRACT AAAAAAAAAAAAAAAAAAAAAAAAAA
TRACT BBBBBBBBBBBBBBBBBBBBBBBBBB
TRACT CCCCCCCCCCCCCCCCCCCCCCCCCC
TRACT DDDDDDDDDDDDDDDDDDDDDDDDDD
TRACT EEEEEEEEEEEEEEEEEEEEEEEEEE
TRACT FFFFFFFFFFFFFFFFFFFFFFFFFF
TRACT GGGGGGGGGGGGGGGGGGGGGGGGGG
TRACT HHHHHHHHHHHHHHHHHHHHHHHHHH
TRACT IIIIIIIIIIIIIIIIIIIIIIIIII
TRACT JJJJJJJJJJJJJJJJJJJJJJJJJJ
TRACT KKKKKKKKKKKKKKKKKKKKKKKKKK
TRACT LLLLLLLLLLLLLLLLLLLLLLLLLL
TRACT MMMMMMMMMMMMMMMMMMMMMMMMMM
TRACT NNNNNNNNNNNNNNNNNNNNNNNNNN
TRACT OOOOOOOOOOOOOOOOOOOOOOOOOO
TRACT PPPPPPPPPPPPPPPPPPPPPPPPPP
TRACT QQQQQQQQQQQQQQQQQQQQQQQQQQ
TRACT RRRRRRRRRRRRRRRRRRRRRRRRRR
TRACT SSSSSSSSSSSSSSSSSSSSSSSSSS
TRACT TTTTTTTTTTTTTTTTTTTTTTTTTT
TRACT UUUUUUUUUUUUUUUUUUUUUUUUUU
TRACT VVVVVVVVVVVVVVVVVVVVVVVVVV
TRACT WWWWWWWWWWWWWWWWWWWWWWWWWW
TRACT XXXXXXXXXXXXXXXXXXXXXXXXXX
TRACT YYYYYYYYYYYYYYYYYYYYYYYYYY
TRACT ZZZZZZZZZZZZZZZZZZZZZZZZZZ
TRACT AAAAAAAAAAAAAAAAAAAAAAAAAAA
TRACT BBBBBBBBBBBBBBBBBBBBBBBBBBB
TRACT CCCCCCCCCCCCCCCCCCCCCCCCCCC
TRACT DDDDDDDDDDDDDDDDDDDDDDDDDDD
TRACT EEEEEEEEEEEEEEEEEEEEEEEEEEE
TRACT FFFFFFFFFFFFFFFFFFFFFFFFFFF
TRACT GGGGGGGGGGGGGGGGGGGGGGGGGGG
TRACT HHHHHHHHHHHHHHHHHHHHHHHHHHH
TRACT IIIIIIIIIIIIIIIIIIIIIIIIIII
TRACT JJJJJJJJJJJJJJJJJJJJJJJJJJJ
TRACT KKKKKKKKKKKKKKKKKKKKKKKKKKK
TRACT LLLLLLLLLLLLLLLLLLLLLLLLLLL
TRACT MMMMMMMMMMMMMMMMMMMMMMMMMMM
TRACT NNNNNNNNNNNNNNNNNNNNNNNNNNN
TRACT OOOOOOOOOOOOOOOOOOOOOOOOOOO
TRACT PPPPPPPPPPPPPPPPPPPPPPPPPPP
TRACT QQQQQQQQQQQQQQQQQQQQQQQQQQQ
TRACT RRRRRRRRRRRRRRRRRRRRRRRRRRR
TRACT SSSSSSSSSSSSSSSSSSSSSSSSSSS
TRACT TTTTTTTTTTTTTTTTTTTTTTTTTTT
TRACT UUUUUUUUUUUUUUUUUUUUUUUUUUU
TRACT VVVVVVVVVVVVVVVVVVVVVVVVVVV
TRACT WWWWWWWWWWWWWWWWWWWWWWWWWWW
TRACT XXXXXXXXXXXXXXXXXXXXXXXXXXX
TRACT YYYYYYYYYYYYYYYYYYYYYYYYYYY
TRACT ZZZZZZZZZZZZZZZZZZZZZZZZZZZ
TRACT AAAAAAAAAAAAAAAAAAAAAAAAAAAA
TRACT BBBBBBBBBBBBBBBBBBBBBBBBBBBB
TRACT CCCCCCCCCCCCCCCCCCCCCCCCCCCC
TRACT DDDDDDDDDDDDDDDDDDDDDDDDDDDD
TRACT EEEEEEEEEEEEEEEEEEEEEEEEEEEE
TRACT FFFFFFFFFFFFFFFFFFFFFFFFFFFF
TRACT GGGGGGGGGGGGGGGGGGGGGGGGGGGG
TRACT HHHHHHHHHHHHHHHHHHHHHHHHHHHH
TRACT IIIIIIIIIIIIIIIIIIIIIIIIIIII
TRACT JJJJJJJJJJJJJJJJJJJJJJJJJJJJ
TRACT KKKKKKKKKKKKKKKKKKKKKKKKKKKK
TRACT LLLLLLLLLLLLLLLLLLLLLLLLLLLL
TRACT MMMMMMMMMMMMMMMMMMMMMMMMMMMM
TRACT NNNNNNNNNNNNNNNNNNNNNNNNNNNN
TRACT OOOOOOOOOOOOOOOOOOOOOOOOOOOO
TRACT PPPPPPPPPPPPPPPPPPPPPPPPPPPP
TRACT QQQQQQQQQQQQQQQQQQQQQQQQQQQQ
TRACT RRRRRRRRRRRRRRRRRRRRRRRRRRRR
TRACT SSSSSSSSSSSSSSSSSSSSSSSSSSSS
TRACT TTTTTTTTTTTTTTTTTTTTTTTTTTTT
TRACT UUUUUUUUUUUUUUUUUUUUUUUUUUUU
TRACT VVVVVVVVVVVVVVVVVVVVVVVVVVVV
TRACT WWWWWWWWWWWWWWWWWWWWWWWWWWWW
TRACT XXXXXXXXXXXXXXXXXXXXXXXXXXXX
TRACT YYYYYYYYYYYYYYYYYYYYYYYYYYYY
TRACT ZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
TRACT AAAAAAAAAAAAAAAAAAAAAAAAAAAAA
TRACT BBBBBBBBBBBBBBBBBBBBBBBBBBBBB
TRACT CCCCCCCCCCCCCCCCCCCCCCCCCCCCC
TRACT DDDDDDDDDDDDDDDDDDDDDDDDDDDDD
TRACT EEEEEEEEEEEEEEEEEEEEEEEEEEEEE
TRACT FFFFFFFFFFFFFFFFFFFFFFFFFFFFF
TRACT GGGGGGGGGGGGGGGGGGGGGGGGGGGGG
TRACT HHHHHHHHHHHHHHHHHHHHHHHHHHHH
TRACT IIIIIIIIIIIIIIIIIIIIIIIIIIII
TRACT JJJJJJJJJJJJJJJJJJJJJJJJJJJJ
TRACT KKKKKKKKKKKKKKKKKKKKKKKKKKKK
TRACT LLLLLLLLLLLLLLLLLLLLLLLLLLLL
TRACT MMMMMMMMMMMMMMMMMMMMMMMMMMMM
TRACT NNNNNNNNNNNNNNNNNNNNNNNNNNNN
TRACT OOOOOOOOOOOOOOOOOOOOOOOOOOOO
TRACT PPPPPPPPPPPPPPPPPPPPPPPPPPPP
TRACT QQQQQQQQQQQQQQQQQQQQQQQQQQQQ
TRACT RRRRRRRRRRRRRRRRRRRRRRRRRRRR
TRACT SSSSSSSSSSSSSSSSSSSSSSSSSSSS
TRACT TTTTTTTTTTTTTTTTTTTTTTTTTTTT
TRACT UUUUUUUUUUUUUUUUUUUUUUUUUUUU
TRACT VVVVVVVVVVVVVVVVVVVVVVVVVVVV
TRACT WWWWWWWWWWWWWWWWWWWWWWWWWWWW
TRACT XXXXXXXXXXXXXXXXXXXXXXXXXXXX
TRACT YYYYYYYYYYYYYYYYYYYYYYYYYYYY
TRACT ZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
TRACT AAAAAAAAAAAAAAAAAAAAAAAAAAAAA
TRACT BBBBBBBBBBBBBBBBBBBBBBBBBBBBB
TRACT CCCCCCCCCCCCCCCCCCCCCCCCCCCCC
TRACT DDDDDDDDDDDDDDDDDDDDDDDDDDDDD
TRACT EEEEEEEEEEEEEEEEEEEEEEEEEEEEE
TRACT FFFFFFFFFFFFFFFFFFFFFFFFFFFFF
TRACT GGGGGGGGGGGGGGGGGGGGGGGGGGGGG
TRACT HHHHHHHHHHHHHHHHHHHHHHHHHHHH
TRACT IIIIIIIIIIIIIIIIIIIIIIIIIIII
TRACT JJJJJJJJJJJJJJJJJJJJJJJJJJJJ
TRACT KKKKKKKKKKKKKKKKKKKKKKKKKKKK
TRACT LLLLLLLLLLLLLLLLLLLLLLLLLLLL
TRACT MMMMMMMMMMMMMMMMMMMMMMMMMMMM
TRACT NNNNNNNNNNNNNNNNNNNNNNNNNNNN
TRACT OOOOOOOOOOOOOOOOOOOOOOOOOOOO
TRACT PPPPPPPPPPPPPPPPPPPPPPPPPPPP
TRACT QQQQQQQQQQQQQQQQQQQQQQQQQQQQ
TRACT RRRRRRRRRRRRRRRRRRRRRRRRRRRR
TRACT SSSSSSSSSSSSSSSSSSSSSSSSSSSS
TRACT TTTTTTTTTTTTTTTTTTTTTTTTTTTT
TRACT UUUUUUUUUUUUUUUUUUUUUUUUUUUU
TRACT VVVVVVVVVVVVVVVVVVVVVVVVVVVV
TRACT WWWWWWWWWWWWWWWWWWWWWWWWWWWW
TRACT XXXXXXX

DETAIL A-A'
EROSION CONTROL BLANKET
CROSS SECTION
NTS

DETAIL B-B'
EROSION CONTROL BLANKET
CROSS SECTION
NTS

DETAIL C-C'
EROSION CONTROL BLANKET
CROSS SECTION
NTS

DETAIL D-D'
EROSION CONTROL BLANKET
CROSS SECTION
NTS

DETAIL F-F'
CHANNEL RIP RAP
CROSS SECTION
NTS

DETAIL E-E'
EROSION CONTROL BLANKET
CROSS SECTION
NTS

DETAIL G-G'
CHANNEL RIP RAP
CROSS SECTION
NTS

CONTROL STRUCTURE
SIDE VIEW
NTS

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

CONTROL STRUCTURE
TOP VIEW
NTS

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. Flared end section required at RCP outlets.
2. Provide joint fasteners for flared end sections.

OS-2

PIPE OUTLET	L	W	d	TYPE	D_{50}	CY	NOTES
42"	14.0	14.0	1.75	M	1.00'	19.2	SEE BELOW

OS-2
OUTLET PROTECTION DETAIL
NTS

TEMPORARY SEDIMENTATION POND 2
TEMPORARY SEDIMENTATION AND WATER QUALITY PIPE
CROSS SECTION
NTS

TEMP. SED. POND 6
DETAIL 3.1
TEMPORARY SEDIMENTATION AND WATER QUALITY PIPE
CROSS SECTION
NTS

TEMP. SED. POND 6
DETAIL 3.2
TEMPORARY SEDIMENTATION SPILLWAY
CROSS SECTION
NTS

TEMPORARY SEDIMENTATION POND 3
TEMPORARY SEDIMENTATION AND WATER QUALITY PIPE
CROSS SECTION
NTS

TEMP. SED. POND 4
TEMPORARY SEDIMENTATION AND WATER QUALITY PIPE
CROSS SECTION
NTS

TEMPORARY SEDIMENTATION POND 5
TEMPORARY SEDIMENTATION AND WATER QUALITY PIPE
CROSS SECTION
NTS

TEMP. SED. BASIN #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)

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH
AT MERIDIAN RANCH
ROUGH GRADING+EROSION
CONTROL PLAN
DETAIL SHEET

Drawn by LCG
Checked by TJK
Date MAY 2020
Scale AS SHOWN
24 of 29

COLORADO LICENSED
THOMAS J. KAMPHAUS
31429
5-7-2020
PROFESSIONAL ENGINEER

PCD PROJECT NO. EGP–20–003

S:\OneDrive\Civil\Proj\Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 11:44:41 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)

CUTTOFF WALL DETAIL
NTS

SPILLWAY #1
SECTION A-A
NTS

SPILLWAY #1
CROSS SECTION B-B
NTS

POND CHANNEL
CROSS SECTION DETAIL
NTS

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
	2.00%	GRADE
	75	LOT NUMBER
	A	LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.
1 inch = 5 ft. VERTICAL

INDEX MAP
N.T.S.

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 28.

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

POND CHANNEL #1

POND CHANNEL #2

POND CHANNEL #3

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH
AT MERIDIAN RANCH
ROUGH GRADINGHEROSION CONTROL PLAN
DETAIL SHEET

Drawn by LCG
Checked by TAK
Date MAY 2020
Scale AS SHOWN
25 of 29

COLORADO LICENSED PROFESSIONAL ENGINEER 31429 5-7-2020

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Crafting\Rolling Hills 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 11:42:19 AM

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

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

NOTE:
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 28.

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

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
7150		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
7150		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
2.00%		GRADE
75		LOT NUMBER
A		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS

NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

INDEX MAP
N.T.S.

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.
1 inch = 5 ft. VERTICAL

POND G
OUTLET PROTECTION DETAIL
NTS

	PIPE OUTLET	L	W	d	TYPE	D_{50}	CY	NOTES
POND G	4'x10' BOX	16.0	26.0	2.0	M	1.00'	33.0	SEE BELOW

DETAIL 1.1
OUTLET STRUCTURE
PLAN VIEW
NTS

DETAIL 1.2
OUTLET STRUCTURE
FRONT VIEW
NTS

DETAIL 1.4
OUTLET STRUCTURE
CROSS SECTION
NTS

DETAIL 1.6
GRATE
NTS

POND OUTFALL

DETAIL 1.3
OUTLET STRUCTURE
SIDE VIEW
NTS

INSIDE FACE
ORIFICE PLATE

DETAIL 1.5
OUTLET STRUCTURE
WATER QUALITY PLATE
NTS

OUTSIDE FACE
WELL SCREEN

ORIFACE PLATE
ASSEMBLY

WELL SCREEN
DETAIL

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

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

MERIDIAN RANCH

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

Drawn by LCG
Checked by TJK
Date MAY 2020
Scale AS SHOWN
26 of 29

COLORADO LICENSED
THOMAS J. KEARNEY
31429
5-7-2020
PROFESSIONAL ENGINEER

PCD PROJECT NO. EGP-20-003

S:\OneDrive-CivilEng\Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 6/2/2020 10:06:43 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)

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 28.

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

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.
1 inch = 5 ft. VERTICAL

INDEX MAP
N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 29
		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 29
		LIMITS OF GRADING
7150		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
7150		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
2.00%		GRADE
75		LOT NUMBER
A		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PILES OF SPOIL MATERIAL FROM FOUNDATION EXCAVATIONS. AN ESTIMATED QUANTITY OF THIS UNDOCUMENTED FILL WAS CALCULATED INTO THE EARTHWORK TO PROVIDE A BALANCED GRADED SITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN FINAL ESTIMATE OF ACTUAL USABLE MATERIAL OUT OF THE SPOIL SITES BASED ON BEST PRACTICES AND FIELD VERIFICATION. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL FROM THE SITE AND DISPOSE OF IT PROPERLY.

STORM #3

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH
AT MERIDIAN RANCH
ROUGH GRADING-EROSION CONTROL PLAN
DETAIL SHEET

Drawn by LCG
Checked by TAK
Date MAY 2020
Scale AS SHOWN
27 of 29

COLORADO LICENSED PROFESSIONAL ENGINEER 31429 5-7-2020

PCD PROJECT NO. EGP-20-003

S:\OneDrive-Civil\Proj-Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 11:37:36 AM

TYPICAL LOT "G2" TEMPLATES

NTS

TYPICAL LOT "G4" TEMPLATES

NTS

TYPICAL LOT "G6" TEMPLATES

NTS

TYPICAL LOT "W8" TEMPLATES

NTS

TYPICAL LOT "W10" TEMPLATES

NTS

TYPICAL LOT "A" TEMPLATES

NTS

TYPICAL LOT "A*" TEMPLATES

NTS

TYPICAL LOT "B" TEMPLATES

NTS

TYPICAL DRAINAGE PATTERN

NTS

TYPICAL RESIDENTIAL STREET SECTION

60' ROW

NTS

TYPICAL LAMBERT ROAD STREET SECTION

80' ROW

NTS

REX ROAD TYPICAL
TEMP. MINOR ARTERIAL STREET SECTION

80' ROW(100' FUTURE)

NTS

STEPS FOR CONSTRUCTION

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

* INSTALL INITIAL BMP'S
* CONSTRUCTION OF DITCHES AND EROSION CONTROL STRUCTURES
* ROUGH GRADING

EROSION AND SEDIMENT CONTROLS

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

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

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

MATERIAL HANDLING AND SPILL PREVENTION

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

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

FINAL STABILIZATION AND LONG TERM STORMWATER MANAGEMENT

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

OTHER CONTROLS

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

INSPECTION AND MAINTENANCE

A THOROUGH INSPECTION OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE PERFORMED EVERY 14 DAYS AS WELL AS AFTER ANY RAIN OR SNOWMELT EVENT THAT CAUSES SURFACE EROSION:
* EROSION OF V-NOTCH SWALES, CHANNELS AND SIDE SLOPES SHALL BE REPAIRED.
* WHEN THE CHECK DAMS HAVE SILTED UP TO HALF THEIR HEIGHT, THE SILT SHALL BE REMOVED, CHANNEL GRADE REESTABLISHED, AND SIDE SLOPES RE-SEEDED IF NECESSARY. ANY CHECK DAMS THAT HAVE SHIFTED OR DECAYED SHALL BE REPAIRED OR REPLACED.
* SILT FENCES SHALL BE CLEANED WHENEVER SEDIMENT HAS REACHED A DEPTH OF 6" AT THE FENCE, AND BROKEN WOODEN PARTS OR TORN FABRIC SHALL BE REPAIRED OR REPLACED.
* ANY ACCUMULATED TRASH OR DEBRIS SHALL BE REMOVED FROM OUTLETS.
* IF THE DEPTH OF THE SILT IN THE TEMPORARY SEDIMENTATION TRAP EXCEEDS 1/2 OF THE ORIGINAL DEPTH, THE TRAP SHALL BE CLEANED OUT AND RESTORED TO ITS ORIGINAL DEPTH. THE OVERFLOW SPILLWAY SHALL BE CLEANED OR REPAIRED AS NECESSARY.
AN INSPECTION AND MAINTENANCE LOG FOLLOWS THIS STORMWATER MANAGEMENT PLAN.

REVEGETATION AND SEEDING

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

BELOW IS THE ACCEPTED GRASS MIX FOR SANDY SOILS:

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

NOTE:

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

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

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH
AT MERIDIAN RANCH
ROUGH GRADING+EROSION
CONTROL PLAN
DETAIL SHEET

Drawn by LCG
Checked by TAK
Date MAY 2020
Scale AS SHOWN
28 of 29

COLORADO LICENSED PROFESSIONAL ENGINEER 31429 5-7-2020

PCD PROJECT NO. EGP-20-003

S:\OneDrive\Civil\Proj\Rolling Hills Filing 1 DWG\Plan Sheet\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 11:36:50 AM

SECTION – SURFACE APPLICATION

SECTION – V-NOTCH CHANNEL

SECTION –TRAPAZOIDAL CHANNEL

STRAW BALE BARRIER NOTES

INSTALLATION REQUIREMENTS

1. STRAW BALE BARRIERS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

2. BALES SHALL CONSIST OF APPROXIMATELY 5 CUBIC FEET OF CERTIFIED WEED FREE HAY OR STRAW AND WEIGH NOT LESS THAN 35 POUNDS.

3. BALES ARE TO BE PLACED IN A SINGLE ROW WITH THE END OF THE BALES TIGHTLY ABUTTING ONE ANOTHER.

4. EACH BALE IS TO BE SECURELY ANCHORED WITH AT LEAST TWO STAKES AND THE FIRST STAKE IS TO BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.

5. STAKES ARE TO BE A MINIMUM OF 42 INCHES LONG. METAL STAKES SHALL BE STANDARD "T" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD STAKES SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.

6. BALES ARE TO BE BOUND WITH EITHER WIRE OR STRING AND ORIENTED SUCH THAT THE BINDINGS ARE AROUND THE SIDES AND NOT ALONG THE TOPS AND BOTTOMS OF THE BALE.

7. GAPS BETWEEN BALES ARE TO BE CHINKED (FILLED BY WEDGING) WITH STRAW OR THE SAME MATERIAL OF THE BALE.

8. END BALES ARE TO EXTEND UPSLOPE SO THE TRAPPED RUNOFF CANNOT FLOW AROUND THE ENDS OF THE BARRIER.

MAINTENANCE REQUIREMENTS

1. CONTRACTOR SHALL INSPECT STRAW BALE BARRIERS IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.

2. DAMAGED OR INEFFECTIVE BARRIERS SHALL PROMPTLY BE REPAIRED, REPLACING BALES IF NECESSARY, AND UNENTRENCHED BALES NEED TO BE REPAIRED WITH COMPACTED BACKFILL MATERIAL.

3. SEDIMENT SHALL BE REMOVED FROM BEHIND STRAW BALE BARRIERS WHEN IT ACCUMULATES TO APPROXIMATELY 1/2 THE HEIGHT OF THE BARRIER.

4. STRAW BALE BARRIERS SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.

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)

STRAW BALE BARRIER
NTS

CHECK DAM
NTS

CHECK DAM NOTES

INSTALLATION REQUIREMENTS

1. STRAW BALES USED AS CHECK DAMS ARE TO MEET THE REQUIREMENTS STATED IN FIGURE SBB-2.

2. THE "H" DIMENSION SHALL BE SELECTED TO PROVIDE WEIR FLOW CONVEYANCE FOR 2-YEAR FLOW OR GREATER.

MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL CHECK DAMS, ESPECIALLY AFTER STORM EVENTS.

2. REPLACE STONE AS NECESSARY TO MAINTAIN THE CORRECT HEIGHT OF THE DAM.

3. ACCUMULATED SEDIMENT AND DEBRIS IS TO BE REMOVED FROM BEHIND THE DAMS AFTER EACH STORM OR WHEN 1/2 OF THE ORIGINAL HEIGHT OF THE DAM IS REACHED.

4. CHECK DAMS ARE TO REMAIN IN PLACE AND OPERATIONAL UNTIL THE DRAINAGE AREA AND CHANNEL ARE PERMANENTLY STABILIZED.

5. WHEN CHECK DAMS ARE REMOVED THE CHANNEL LINING OR VEGETATION IS TO BE RESTORED.

NOTES:

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

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

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

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

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

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

IED BLOCK AND GRAVEL BAG* CURB INLET PROTECTI
NTS

BLOCK AND GRAVEL BAG* CURB INLET PROTECTION NOTES

INSTALLATION REQUIREMENTS

1. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET.

2. CONCRETE BLOCKS ARE TO BE LAID AT 2' SPACING ON THEIR SIDES WITH THE OPEN ENDS OF THE BLOCK FACING EACH OTHER.

3. IF MORE THAN ONE 2X4 IS REQUIRED, THEY NEED TO OVERLAP BY A MINIMUM OF 2'

4. GRAVEL BAGS ARE TO BE PLACED AROUND THE CONCRETE BLOCKS AND 2X4 TO CLOSELY ABUTTING ONE ANOTHER SO THERE ARE NO GAPS.

5. GRAVEL BAGS ARE TO CONTAIN WASHED SAND OR GRAVEL APPROXIMATELY 3/4 INCH IN DIAMETER.

6. BAGS ARE TO BE MADE OF 1/4" INCH WIRE MESH (USED WITH GRAVEL ONLY) OR GEOTEXTILE.

MAINTENANCE REQUIREMENTS

1. CONTRACTOR SHALL INSPECT INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.

2. DAMAGED OR INEFFECTIVE INLET PROTECTION SHALL PROMPTLY BE REPAIRED OR REPLACED.

3. SEDIMENT SHALL BE REMOVED WHEN SEDIMENT HAS ACCUMULATED TO APPROXIMATELY 1/2 THE DESIGN DEPTH OF THE TRAP.

4. INLET PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED WITHIN THE DRAINAGE AREA AS APPROVED BY THE CITY.

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

VEHICLE TRACKING NOTES

INSTALLATION REQUIREMENTS

1. ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION BEGINNING.

2. CONSTRUCTION ENTRANCES ARE TO BE BUILT WITH AN APRON TO ALLOW FOR TURNING TRAFFIC, BUT SHOULD NOT BE BUILT OVER EXISTING PAVEMENT EXCEPT FOR A SLIGHT OVERLAP.

3. AREAS TO BE STABILIZED ARE TO BE PROPERLY GRADED AND COMPACTED PRIOR TO LAYING DOWN GEOTEXTILE AND STONE.

4. CONSTRUCTION ROADS, PARKING AREAS, LOADING/UNLOADING ZONES, STORAGE AREAS, AND STAGING AREAS ARE TO BE STABILIZED.

5. CONSTRUCTION ROADS ARE TO BE BUILT TO CONFORM TO SITE GRADES, BUT SHOULD NOT HAVE SIDE SLOPES OR ROAD GRADES THAT ARE EXCESSIVELY STEEP.

MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL STABILIZED AREAS, ESPECIALLY AFTER STORM EVENTS.

2. STONES ARE TO BE REAPPLIED PERIODICALLY AND WHEN REPAIR IS NECESSARY.

3. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED DAILY BY SHOVELING OR SWEEPING. SEDIMENT IS NOT TO BE WASHED DOWN STORM SEWER DRAINS.

4. STORM SEWER INLET PROTECTION IS TO BE IN PLACE, INSPECTED, AND CLEANED IF NECESSARY.

5. OTHER ASSOCIATED SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED TO ENSURE GOOD WORKING CONDITION.

VEHICLE TRACKING
NTS

SILT FENCE
NTS

SILT FENCE NOTES

INSTALLATION REQUIREMENTS

1. SILT FENCES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

2. WHEN JOINTS ARE NECESSARY, SILT FENCE GEOTEXTILE SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST AND SECURELY SEALED.

3. METAL POSTS SHALL BE "STUDDED TEE" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.

4. THE FILTER MATERIAL SHALL BE FASTENED SECURELY TO METAL OR WOOD POSTS USING WIRE TIES, OR TO WOOD POSTS WITH 3/4" LONG #9 HEAVY-DUTY STAPLES. THE SILT FENCE GEOTEXTILE SHALL NOT BE STAPLED TO EXISTING TREES.

5. WHILE NOT REQUIRED, WIRE MESH FENCE MAY BE USED TO SUPPORT THE GEOTEXTILE. WIRE FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 3/4" LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 6" AND SHALL NOT EXTEND MORE THAN 3' ABOVE THE ORIGINAL GROUND SURFACE.

6. ALONG THE TOE OF FILLS, INSTALL THE SILT FENCE ALONG A LEVEL CONTOUR AND PROVIDE AN AREA BEHIND THE FENCE FOR RUNOFF TO POND AND SEDIMENT TO SETTLE. A MINIMUM DISTANCE OF 5 FEET FROM THE TOE OF THE FILL IS RECOMMENDED.

7. THE HEIGHT OF THE SILT FENCE FROM THE GROUND SURFACE SHALL BE MINIMUM OF 24 INCHES AND SHALL NOT EXCEED 36 INCHES; HIGHER FENCES MAY INPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.

MAINTENANCE REQUIREMENTS

1. CONTRACTOR SHALL INSPECT SILT FENCES IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL. DAMAGED, COLLAPSED, UNENTRENCHED OR INEFFECTIVE SILT FENCES SHALL BE PROMPTLY REPAIRED OR REPLACED.

2. SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE WHEN IT ACCUMULATES TO HALF THE EXPOSED GEOTEXTILE HEIGHT.

3. SILT FENCES SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.

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

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

MERIDIAN RANCH

ROUGH GRADING ROLLING HILLS RANCH
AT MERIDIAN RANCH
ROUGH GRADING-EROSION CONTROL PLAN
DETAIL SHEET

Drawn by LCG
Checked by TAK
Date MAY 2020
Scale AS SHOWN
29 of 29

COLORADO LICENSED PROFESSIONAL ENGINEER 31429 5-7-2020

PCD PROJECT NO. EGP-20-003

S:\OneDrive Civil\Proj Rolling Hills Filing 1\DWG\Plan Sheets\ROUGH GRADING\ROLLING HILLS ROUGH GRADING.dwg, 5/11/2020 11:35:49 AM