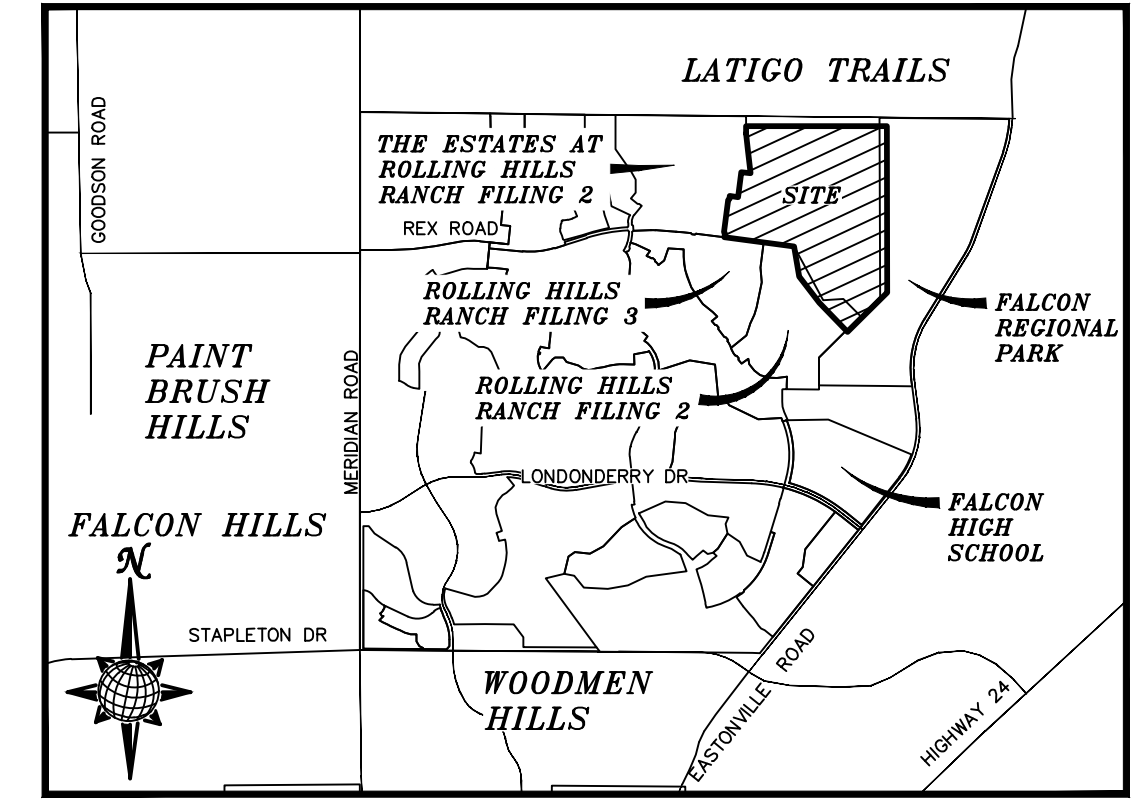


EPC STORMWATER REVIEW COMMENTS ARE SHOWN IN ORANGE BOXES WITH BLACK TEXT

# PREDEVELOPEMENT GRADING FOR ROLLING HILLS RANCH NORTH AT MERIDIAN RANCH

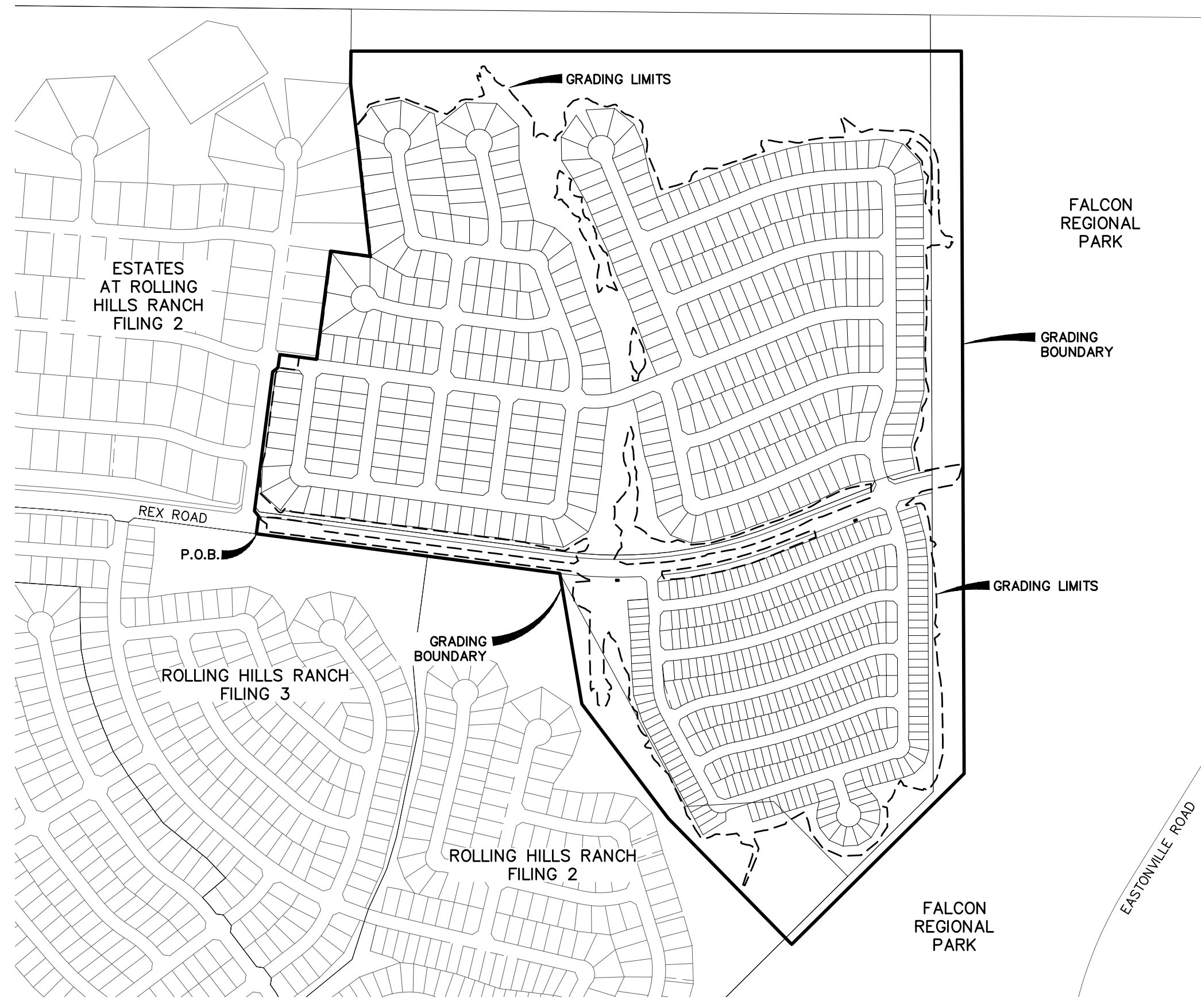
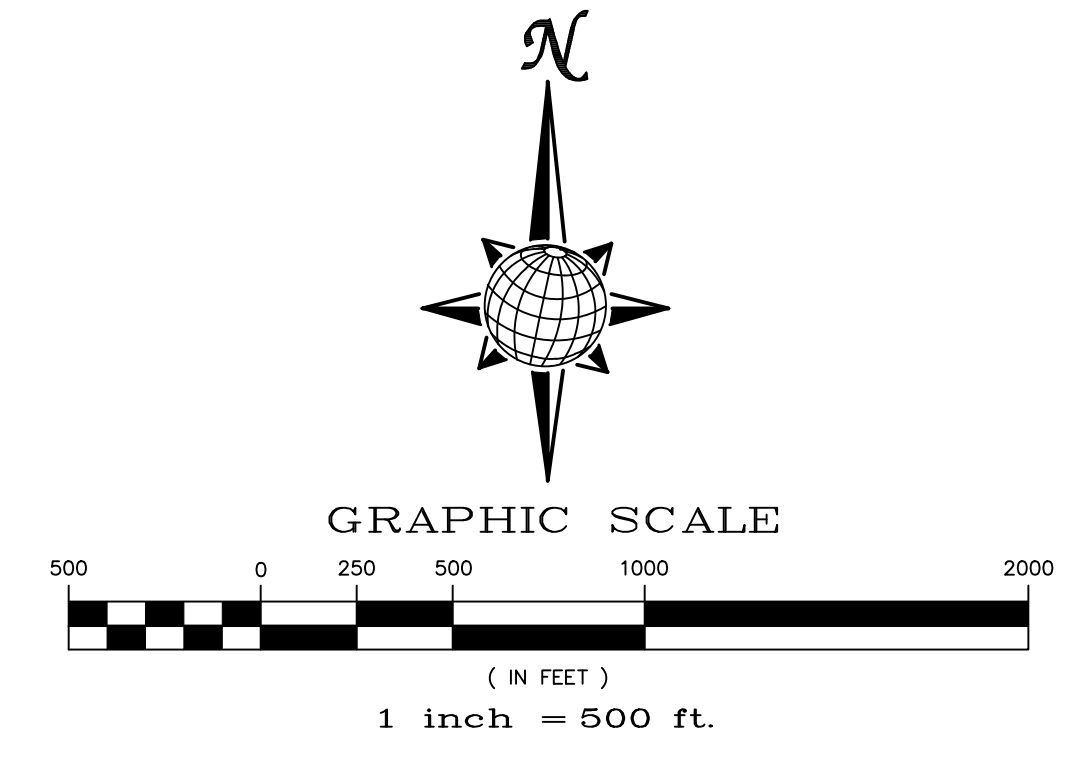
PREPARED FOR GTL, INC. DBA GTL DEVELOPMENT, INC.

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



VICINITY MAP N.T.S.

SHEET	SHEET INDEX
1	COVER SHEET
2	INDEX SHEET
3-14	LAYOUT SHEETS
15	CUT-FILL SHEETS
16-23	DETAIL SHEETS



**UTILITY CONTACTS:**

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

**CAUTION - NOTICE TO CONTRACTOR**

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

**LEGAL DESCRIPTION:**

KNOW ALL MEN BY THESE PRESENTS: THAT GTL, INC. DBA GTL DEVELOPMENT, INC., THEODORE TCHANG, PRESIDENT, 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 AND 21, IN TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE SOUTHEASTERN MOST CORNER OF THE ESTATES AT ROLLING HILLS RANCH FILING NO. 2, RECORDED WITH RECEPTION NO. \_\_\_\_\_ IN THE RECORDS OF EL PASO COUNTY;

THE FOLLOWING ELEVEN (11) COURSES ARE ON SAID BOUNDARY OF THE ESTATES AT ROLLING HILLS RANCH FILING NO. 2.

1. THENCE N07°26'02"W A DISTANCE OF 80.00 FEET;
2. THENCE N37°33'58"W A DISTANCE OF 31.11 FEET;
3. THENCE N07°26'02"W A DISTANCE OF 636.00 FEET;
4. THENCE N52°26'02"E A DISTANCE OF 31.11 FEET;
5. THENCE N07°26'02"W A DISTANCE OF 60.00 FEET;
6. THENCE S82°33'58"E A DISTANCE OF 168.00 FEET;
7. THENCE N07°26'02"W A DISTANCE OF 495.00 FEET;
8. THENCE S82°33'58"E A DISTANCE OF 180.00 FEET;
9. THENCE N06°14'24"W A DISTANCE OF 495.03 FEET;
10. THENCE N06°47'53"W A DISTANCE OF 290.00 FEET;
11. THENCE N00°34'17"W A DISTANCE OF 149.26 FEET;
12. THENCE N00°00'00"E A DISTANCE OF 2,767.24 FEET;
13. THENCE S00°13'03"E A DISTANCE OF 3,275.30 FEET;
14. THENCE S45°14'56"W A DISTANCE OF 1,100.00 FEET;
15. THENCE N44°24'40"W A DISTANCE OF 800.00 FEET;
16. THENCE N37°01'57"W A DISTANCE OF 650.00 FEET;
17. THENCE N09°54'46"W A DISTANCE OF 600.00 FEET;
18. THENCE N82°33'58"W A DISTANCE OF 1,387.37 FEET TO THE POINT OF BEGINNING.

THE ABOVE PARCEL OF LAND CONTAINS 206.887 ACRES, MORE OR LESS.

**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)

**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 ANGELS 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.

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

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

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

\_\_\_\_\_  
 JIM NIKKEL, GENERAL MANAGER  
 MERIDIAN SERVICE METROPOLITAN DISTRICT DATE \_\_\_\_\_

**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

**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.

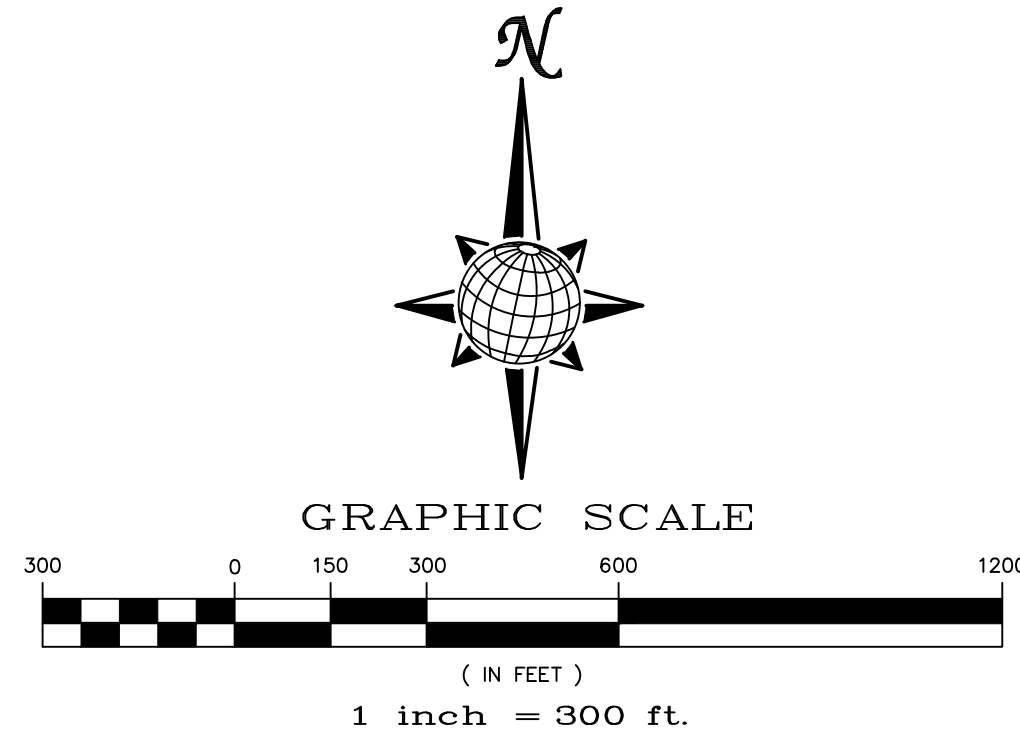
\_\_\_\_\_  
 JENNIFER IRVINE, P.E.  
 COUNTY ENGINEER / ECM ADMINISTRATOR DATE \_\_\_\_\_

TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		MERIDIAN RANCH	
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN COVER SHEET			
Drawn by	LOG	Checked by	TAK
Scale	AS SHOWN	Date	MARCH 2022
1 of 23		Revise to EGP222	

**EL PASO COUNTY STANDARD NOTES:**

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

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

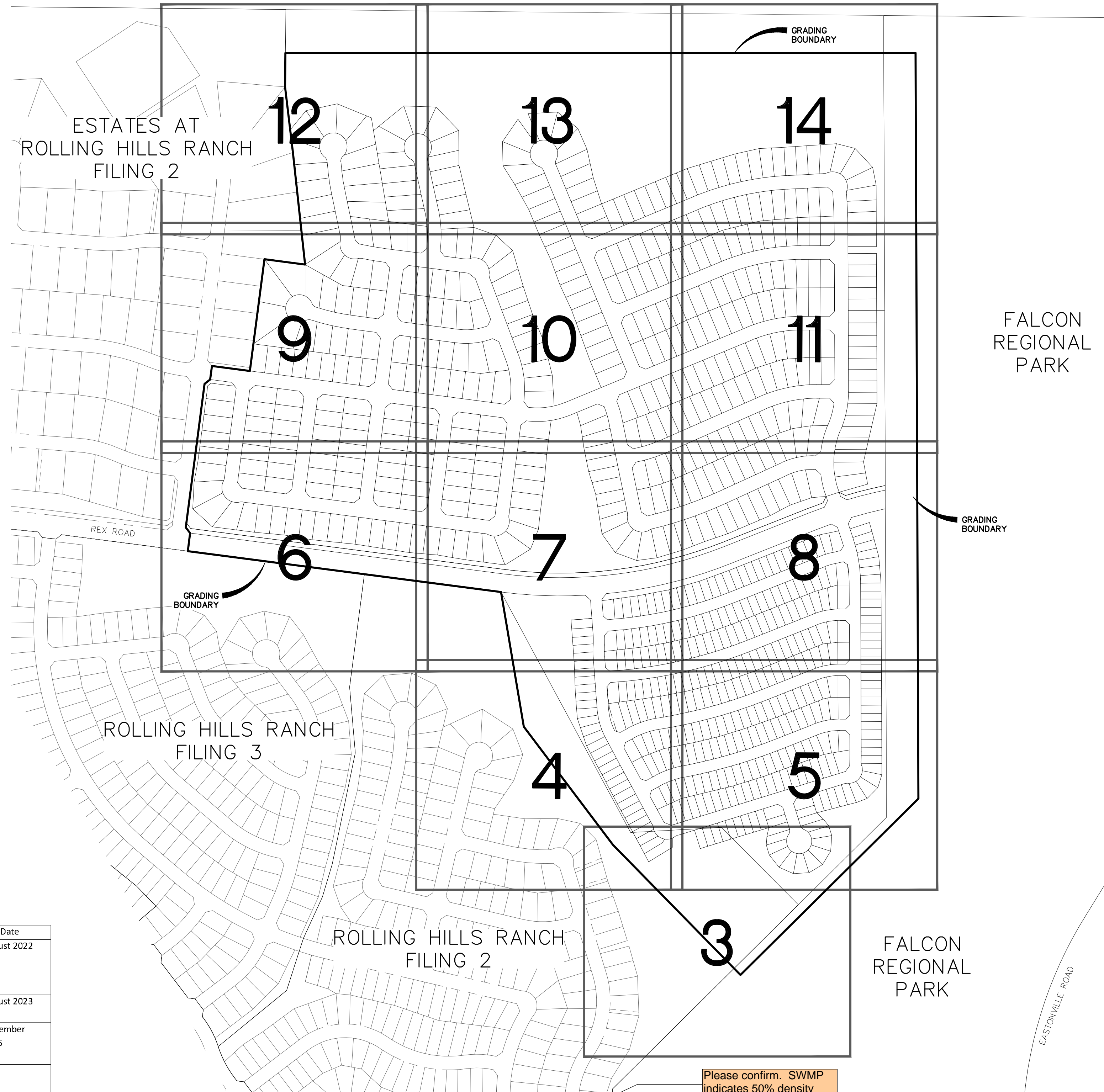


Stage	Description	Control Measures	Begin Date	End Date
Stage 1	Overlot Grading	Perimeter Control Temporary Sed. Basins Swale Checks as needed Surface Roughening	June 2022	August 2022
Stage 2	Underground utilities Surface Improvements	Perimeter Control Inlet Protection	August 2022	August 2023
Stage 3	Home Construction	Inlet Protection Individual Lot Perimeter Control	November 2022	November 2025
Final Stabilization	Permit Close	Final Stabilization Permanent Measures	November 2025	

please include date of report

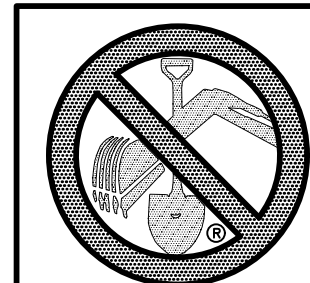
**EARTHWORK QUANTITIES**

NET YARDS	BALANCE		
TOTAL STRIPPINGS	158.1 AC.	85,023 CY	
	<b>CUT</b>	<b>FILL</b>	
NET YARDS	321,100 CY	321,000 CY	
20% COMPACTION FACTOR			



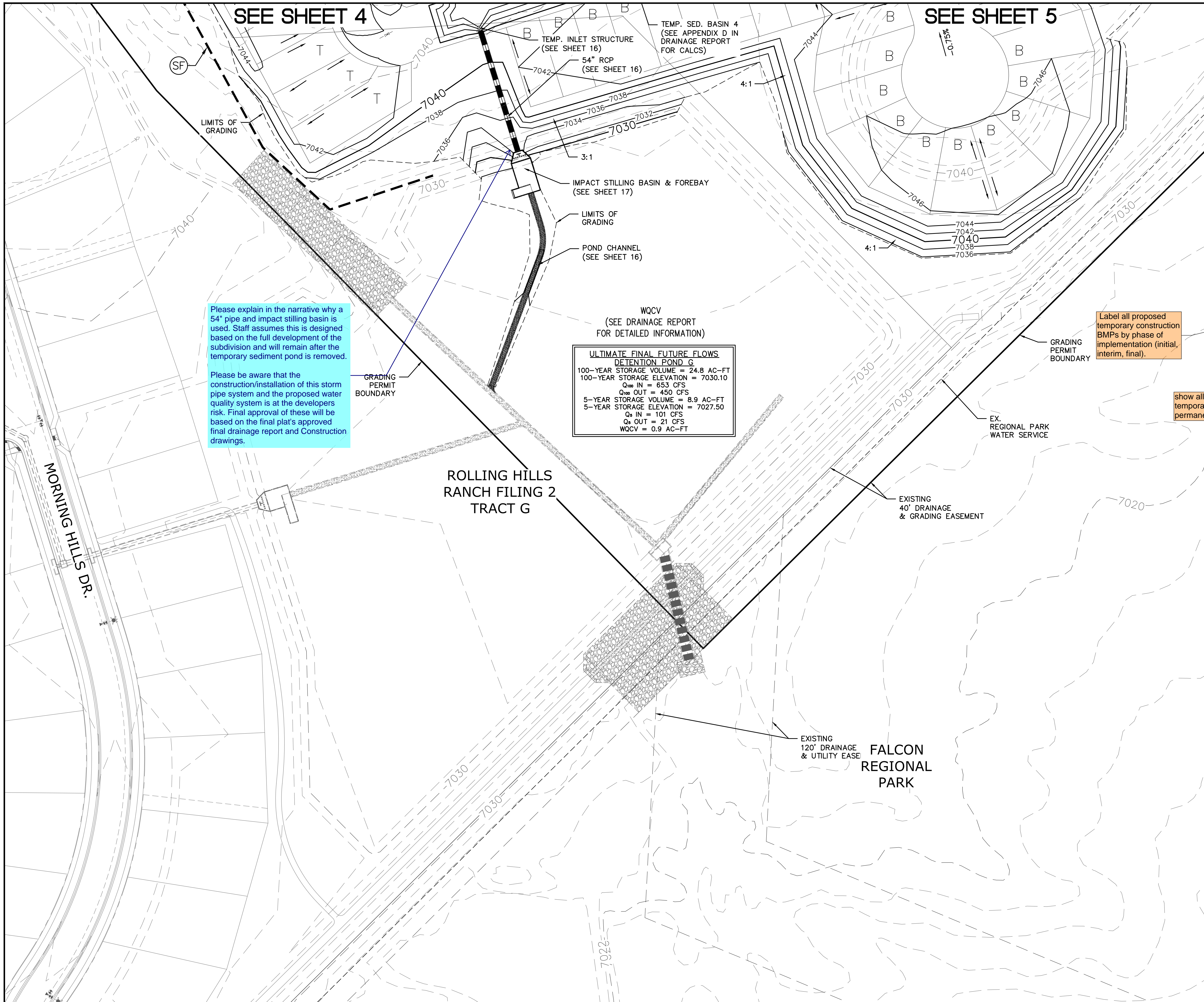
**NOTE:**

- EXISTING VEGETATION ON THE PROJECT SITE AND THE IN SURROUNDING AREAS CONSISTS OF A MIXTURE OF NATIVE GRASSES AND WEEDS WITH COVERAGE APPROXIMATING 70% DENSITY UNLESS OTHERWISE NOTED. SOME AREAS HAVE NEGLIGIBLE VEGETATIVE GROWTH AT THIS TIME AS THE SITE WAS PREVIOUSLY GRADED AND RE-SEEDED OR USED AS A BUILDERS' STOCKPILE LOCATION. AREAS PREVIOUSLY GRADED HAS BEEN RE-SEEDED WITH THE APPROVED COUNTY SEED MIX.
- MATERIAL STORAGE, TOPSOIL STOCKPILES(EDFCD: MM-2), STAGING(UDFCD: SM-6), CONCRETE WASHOUT AND WASTE AREAS SHALL BE IDENTIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION AND ADJUSTED AS NECESSARY.
- THERE IS NO CONCRETE BATCH PLANT ASSOCIATED WITH THIS PROJECT.
- NO SLOPES GREATER THAN 3:1 ARE EXPECTED ON THIS SITE. SLOPES GREATER THAN 3:1 REQUIRE EROSION CONTROL BLANKET.
- MIRIFI FABRIC TO BE PLACED BELOW ALL RIP-RAP.



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

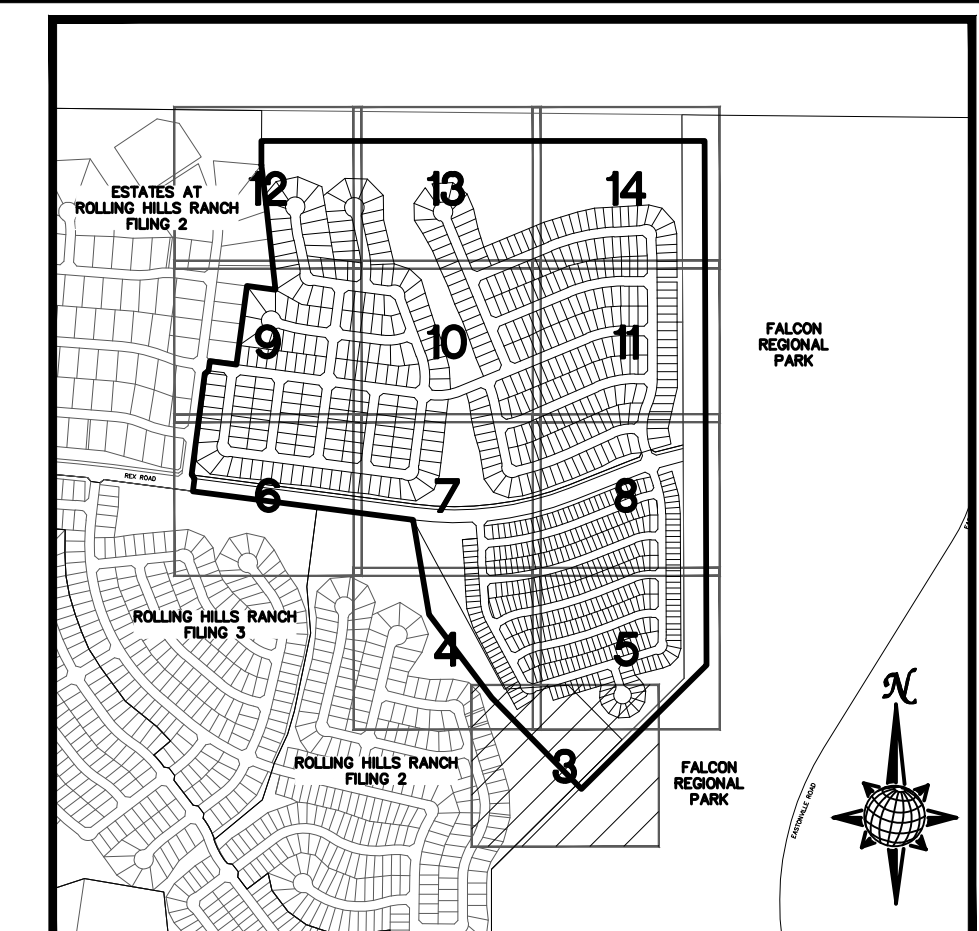
No.	1	2	3	4
Revisions				
Date				
Appr.				
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				
<b>MERIDIAN RANCH</b>				
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN GRADING INDEX SHEET				
Drawn by	Log	Checked by	TAK	Date
AS SHOWN				MARCH 2022
Scale	2 of 23			



Please explain in the narrative why a 54" pipe and impact stilling basin is used. Staff assumes this is designed based on the full development of the subdivision and will remain after the temporary sediment pond is removed.

Please be aware that the construction/installation of this storm pipe system and the proposed water quality system is at the developers risk. Final approval of these will be based on the final plat's approved final drainage report and Construction drawings.

ULTIMATE FINAL FUTURE FLOWS DETENTION POND G	
100-YEAR STORAGE VOLUME =	24.8 AC-FT
100-YEAR STORAGE ELEVATION =	7030.10
Q <sub>100</sub> IN =	653 CFS
Q <sub>100</sub> OUT =	450 CFS
5-YEAR STORAGE VOLUME =	8.9 AC-FT
5-YEAR STORAGE ELEVATION =	7027.50
Q <sub>5</sub> IN =	101 CFS
Q <sub>5</sub> OUT =	21 CFS
WQCV =	0.9 AC-FT

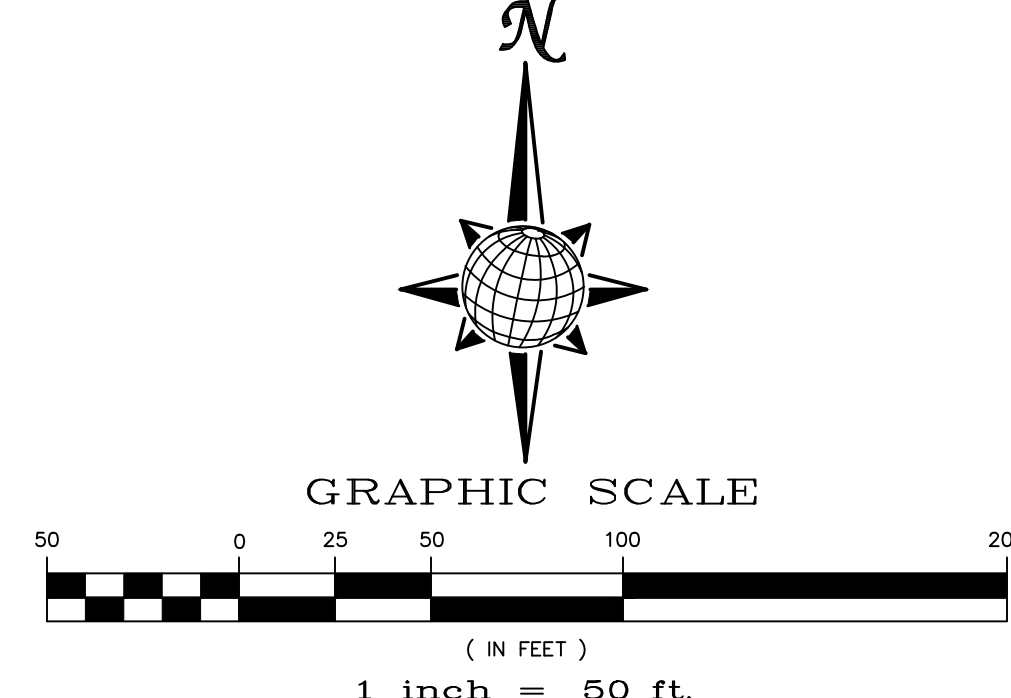


**INDEX MAP**  
N.T.S.  
**LEGEND**

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES PER DETAIL SHEET 23
		EROSION WATTLES PER DETAIL SHEET 23
		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 23
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		CONSTRUCTION BOUNDARY
		FLOW DIRECTION
		2.00% GRADE
	A	LOT GRADE TYPE

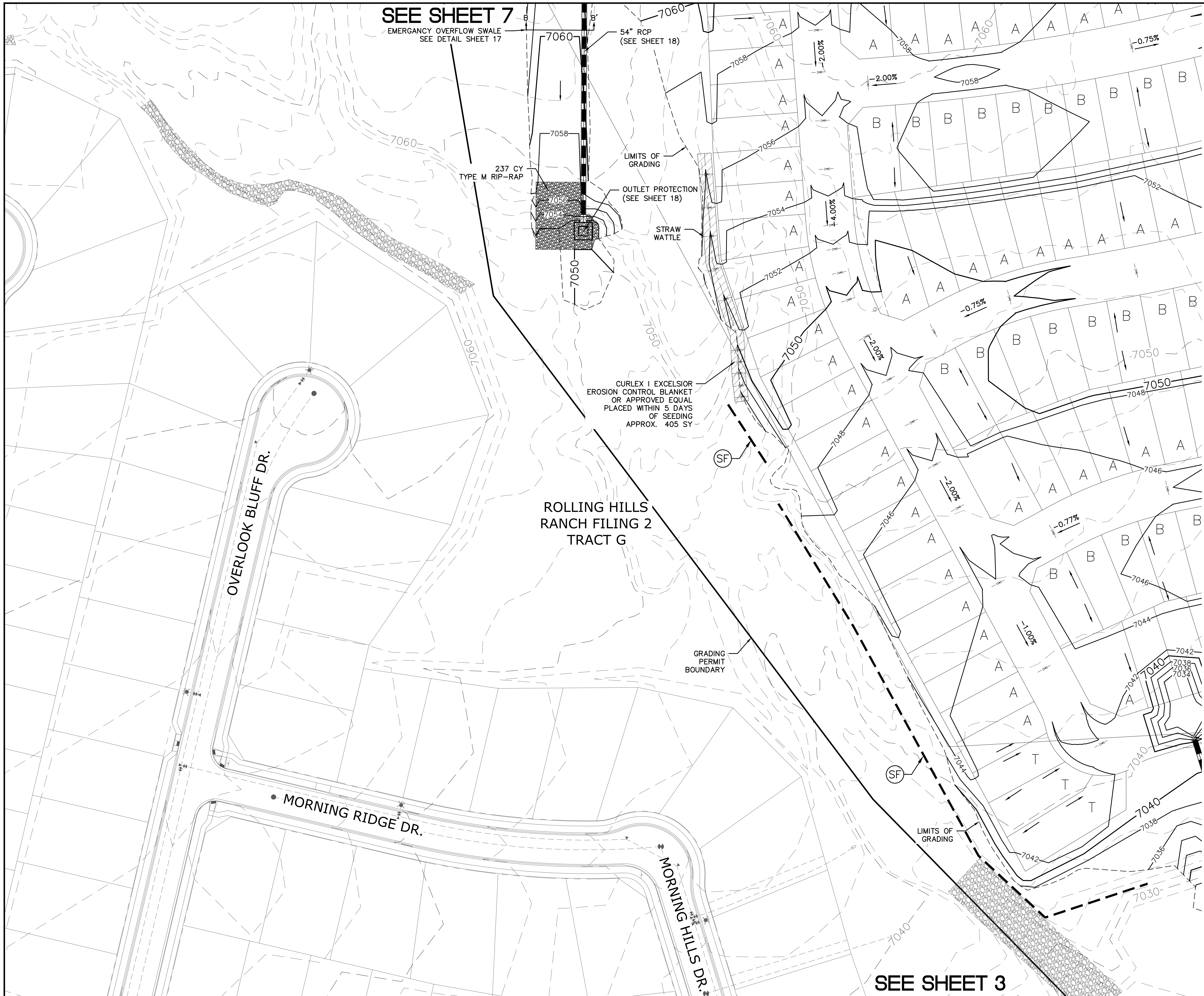
**NOTE:**  
ALL CONTOURS SHOWN WITHIN THE PLAN SET ARE TO FINISHED SURFACE. ALL STREET SECTIONS ARE TO BE GRADED TO ROUGH SUB-GRADE AS SHOWN IN THEIR RESPECTIVE TYPICAL STREET SECTION SHOWN ON SHEET 22.

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1) ESTATES AT ROLLING HILLS RANCH FILING 2  
2) ROLLING HILLS RANCH FILING 3  
3) ROLLING HILLS RANCH FILING 2  
4) ROLLING HILLS RANCH FILING 1  
5) ROUGH GRADING FOR ROLLING HILLS RANCH  
6) EASTONVILLE RAW WATER PIPELINE  
7) 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)

1	2	3	4	No.	Revisions	Date	Init.	Appr.	Date
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457									
<b>MERIDIAN RANCH</b>									
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN PLAN SHEET									
Drawn by	LOG	Checked by	TAK	Date	MARCH 2022				
Scale	AS SHOWN	3	of	23					



**SEE SHEET 7**  
EMERGENCY OVERFLOW SWALE  
SEE DETAIL SHEET 17

237 CY  
TYPE M RIP-RAP

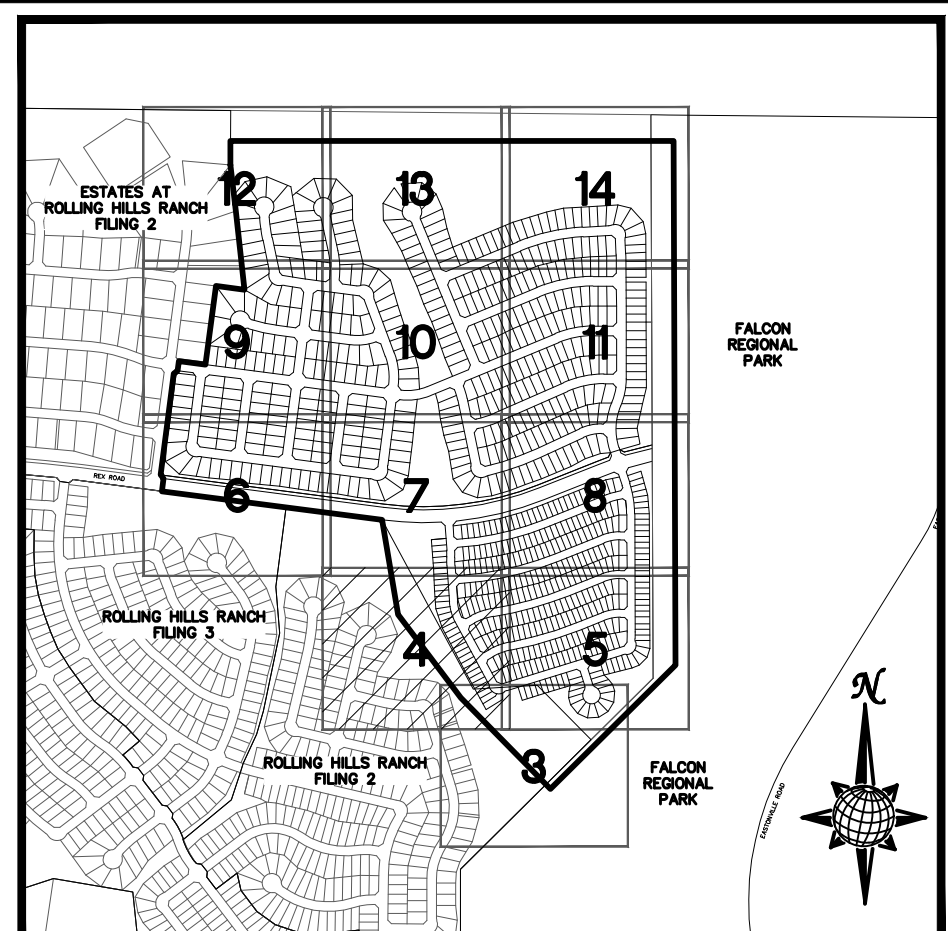
LIMITS OF GRADING  
OUTLET PROTECTION  
(SEE SHEET 18)  
STRAW WATTLE

CURLEX I EXCELSIOR  
EROSION CONTROL BLANKET  
OR APPROVED EQUAL  
PLACED WITHIN 5 DAYS  
OF SEEDING  
APPROX. 405 SY

ROLLING HILLS  
RANCH FILING 2  
TRACT G

GRADING  
PERMIT  
BOUNDARY

**SEE SHEET 3**



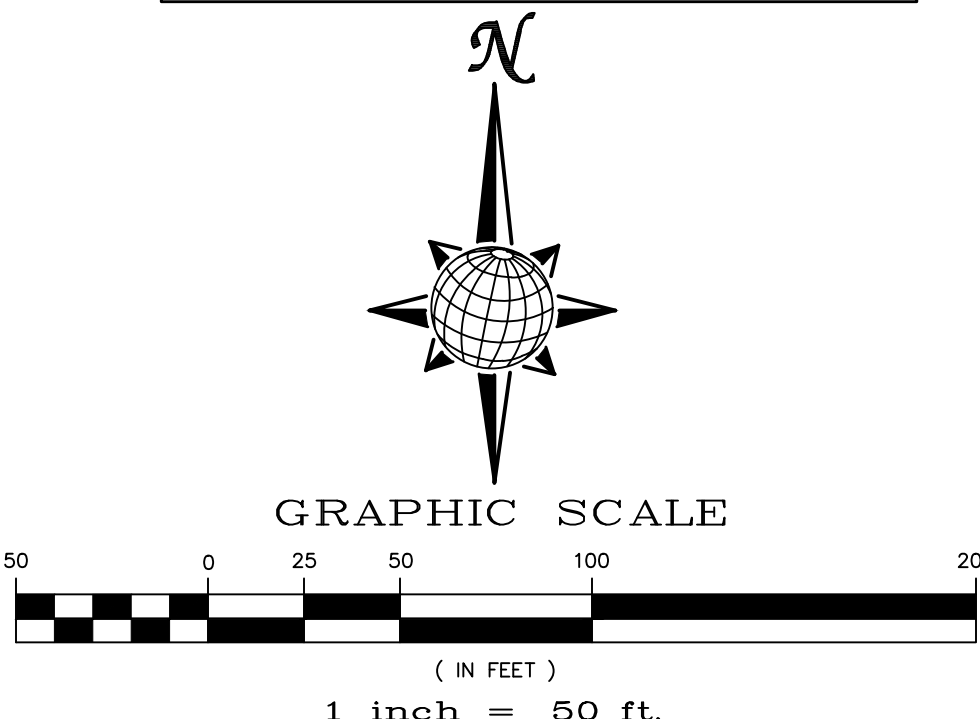
**INDEX MAP**  
N.T.S.

**LEGEND**

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES PER DETAIL SHEET 23
		EROSION WATTLES PER DETAIL SHEET 23
		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 23
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
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		PROPOSED CONTOUR (2')
		CONSTRUCTION BOUNDARY
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		GRADE
	A	LOT GRADE TYPE

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7) MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD



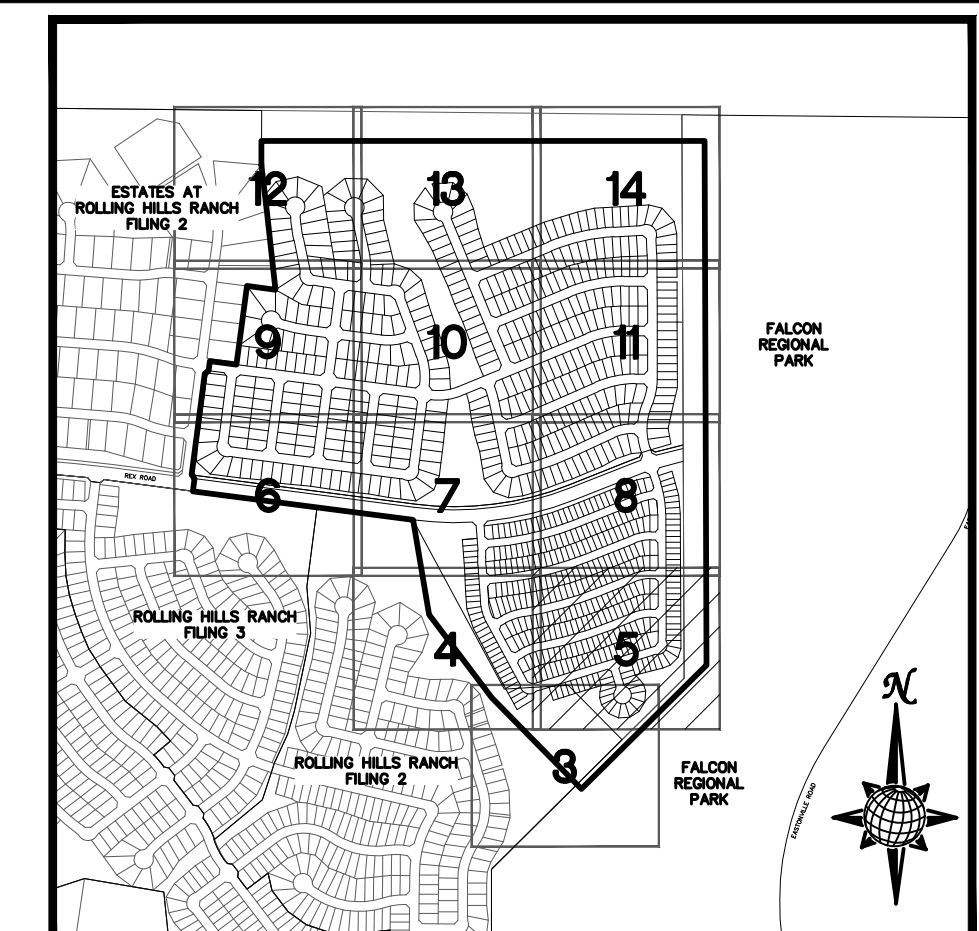
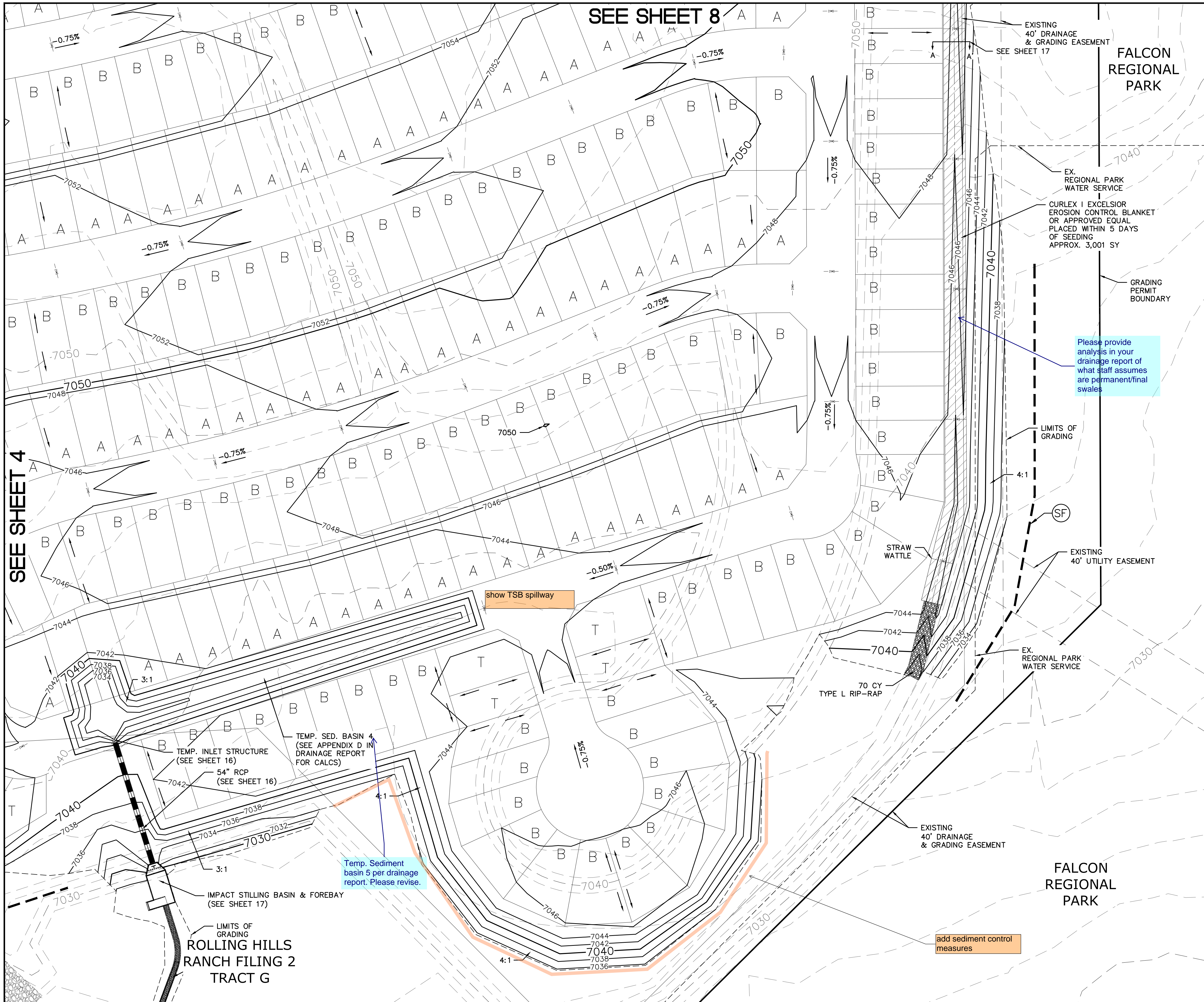
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**SEE SHEET 5**

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

TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		
<b>MERIDIAN RANCH</b>		
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN PLAN SHEET		
Drawn by LOG	Checked by TKM	Date MARCH 2022
Scale AS SHOWN	4 of 23	



**INDEX MAP**  
N.T.S.

**LEGEND**

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	IP	INLET PROTECTION PER DETAIL SHEET 23
<b>LIMITS OF GRADING</b>		
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		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		CONSTRUCTION BOUNDARY
		FLOW DIRECTION
	2.00%	GRADE
	A	LOT GRADE TYPE

Please provide analysis in your drainage report of what staff assumes are permanent/final swales

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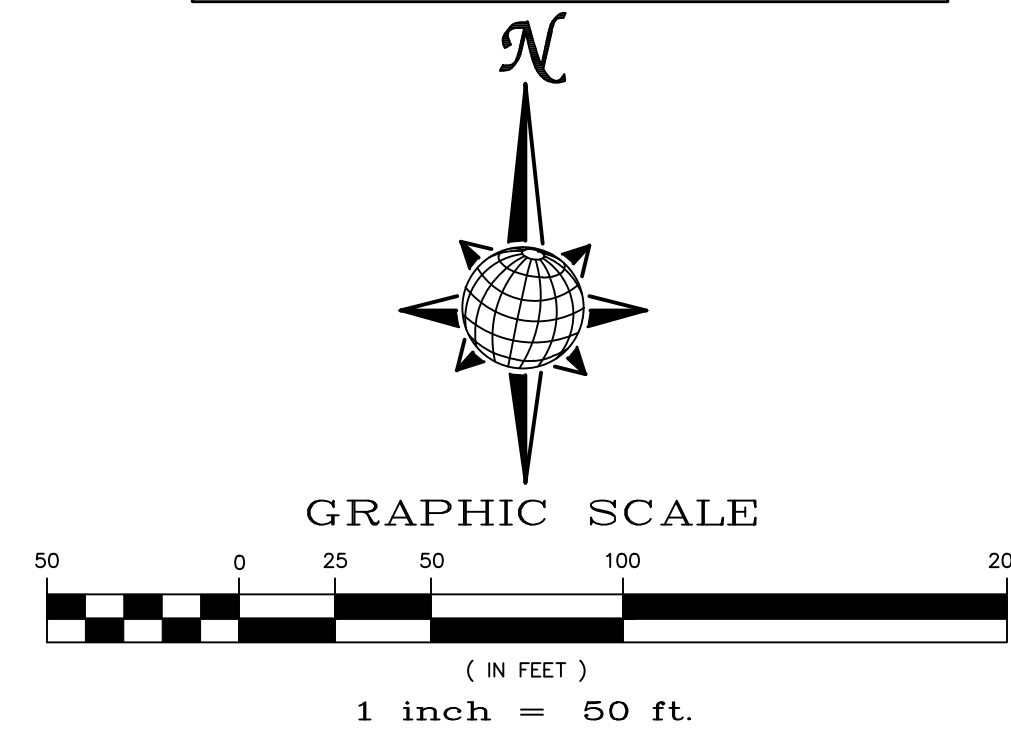
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7) MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD

SEE SHEET X

SEE SHEET 4

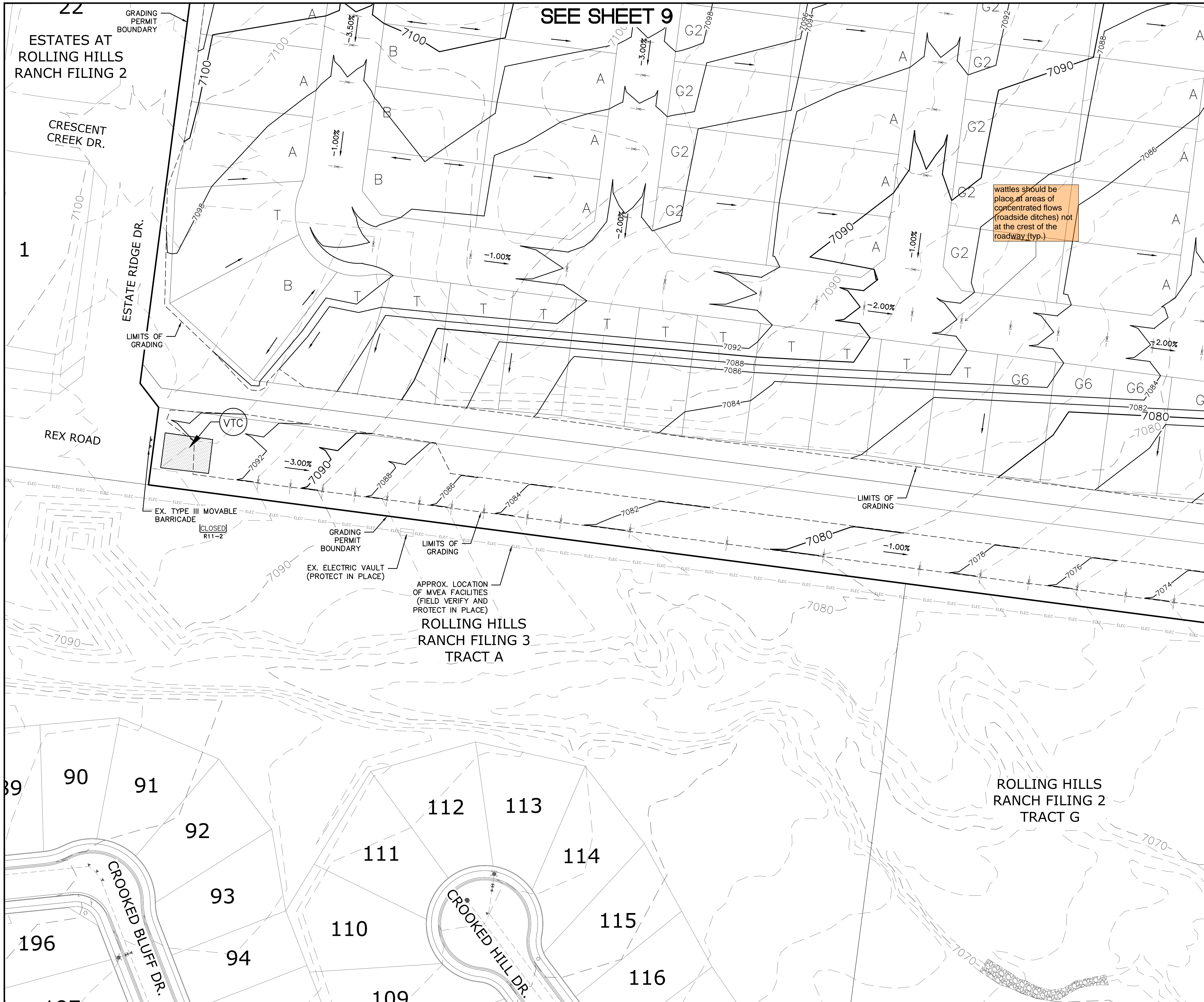
SEE SHEET 8

1	2	3	4	No.	Revisions	Date	Appr.
<p>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</p>							
<p><b>MERIDIAN RANCH</b></p>							
<p>PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN PLAN SHEET</p>							
Drawn by	LOG	Checked by	TAK	Date	MARCH 2022		
Scale	AS SHOWN			5 of 23			



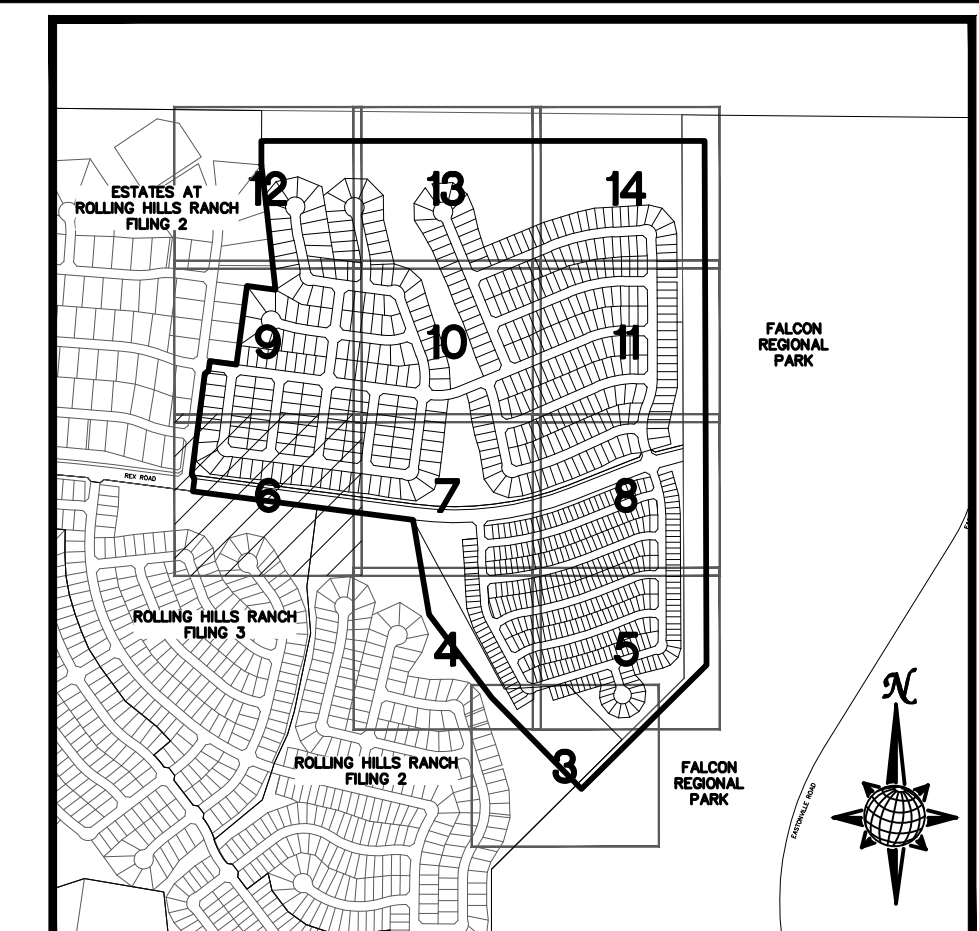
**TWO WORKING DAYS BEFORE YOU DIG CALL 811**

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SEE SHEET 9

SEE SHEET 7



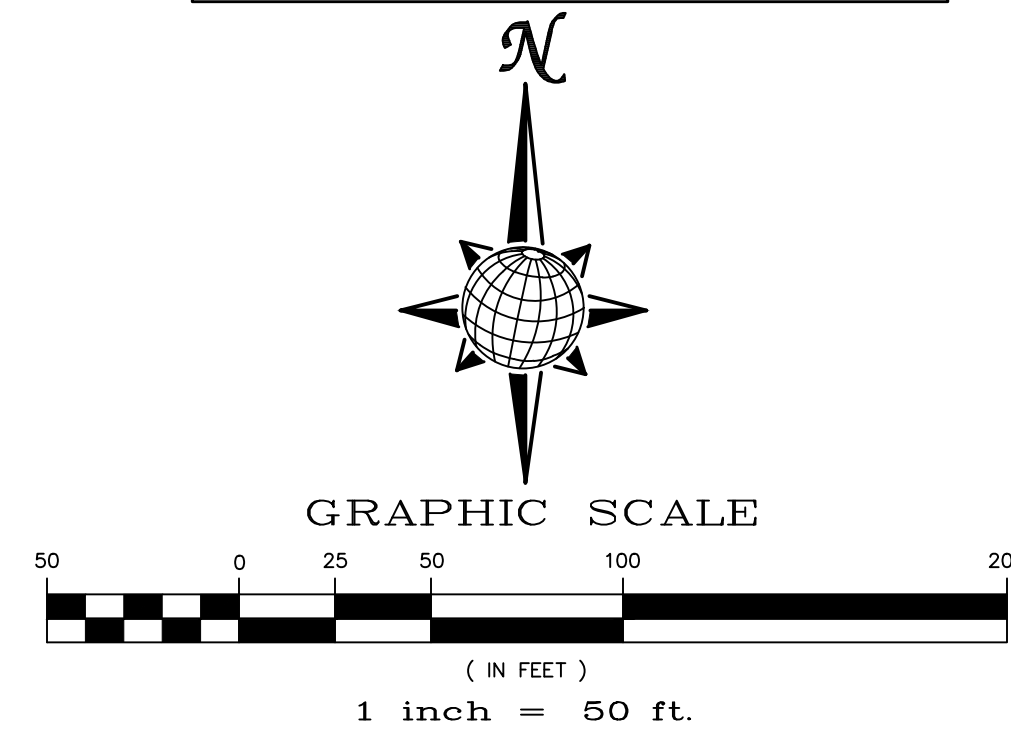
**INDEX MAP**  
N.T.S.

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	VTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION PER DETAIL SHEET 23
		LIMITS OF GRADING
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		FLOW DIRECTION
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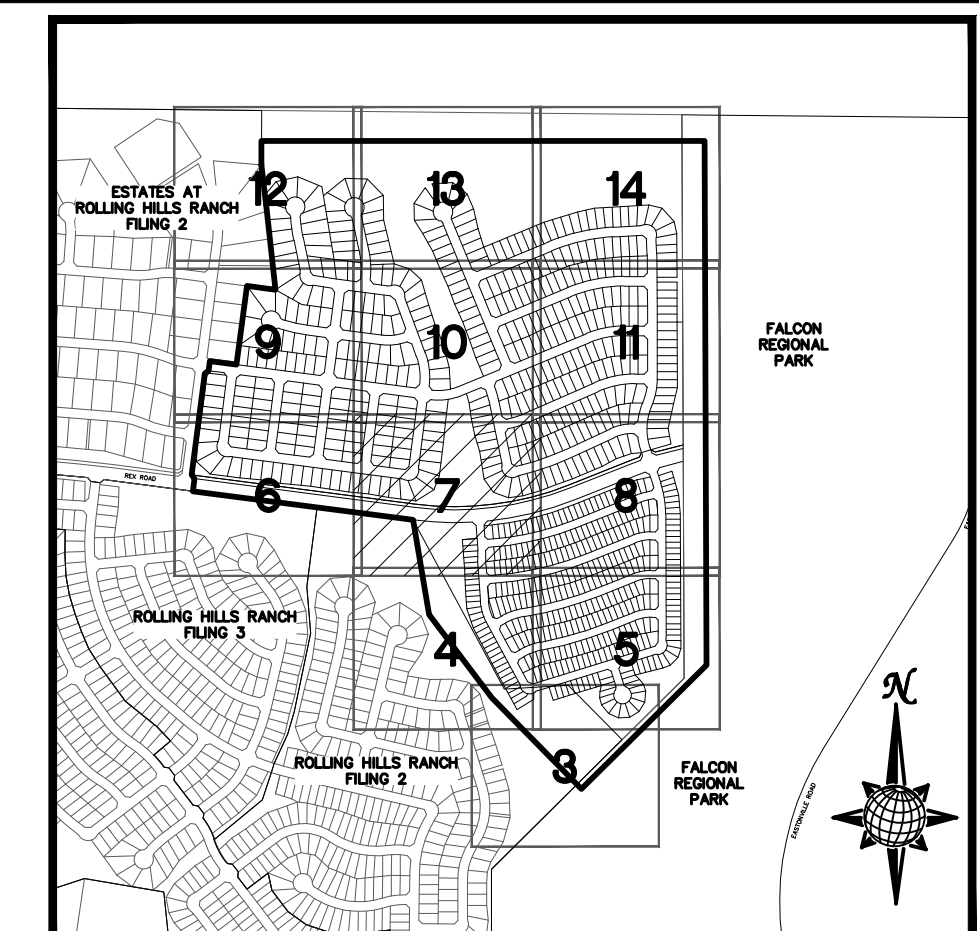
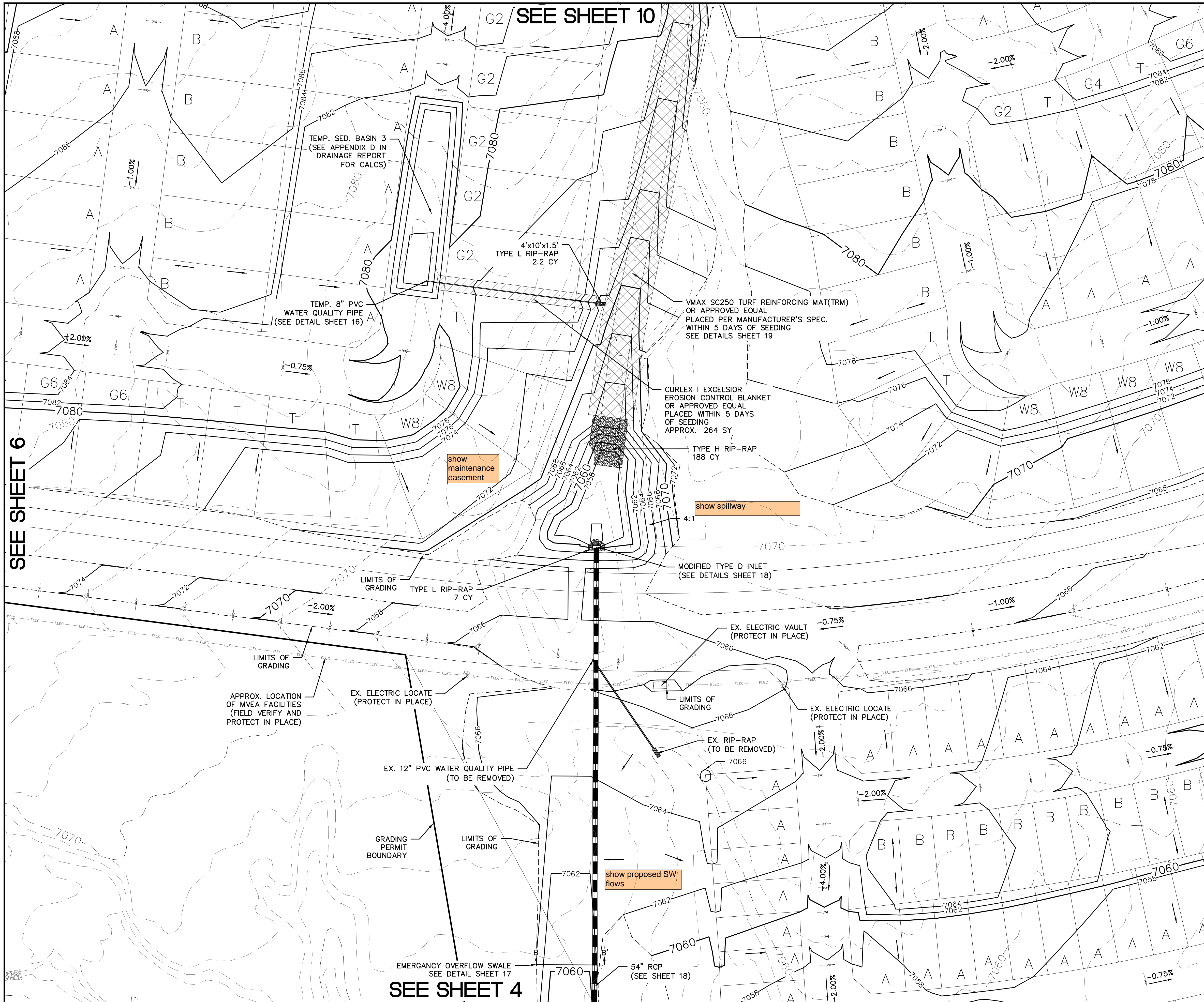
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Drawn by	LOG	Checked by	TAK	Date	MARCH 2022
Scale	AS SHOWN	6	of 23		



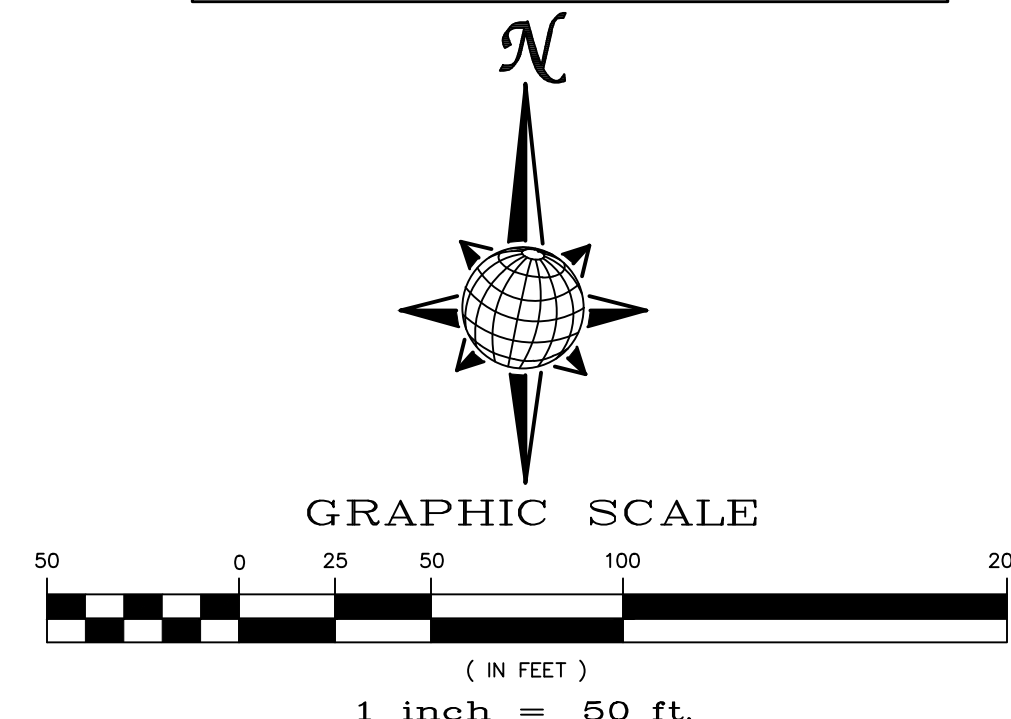
**INDEX MAP**  
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<b>LIMITS OF GRADING</b>		
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		PROPOSED CONTOUR (2')
		CONSTRUCTION BOUNDARY
		FLOW DIRECTION
		GRADE
	A	LOT GRADE TYPE

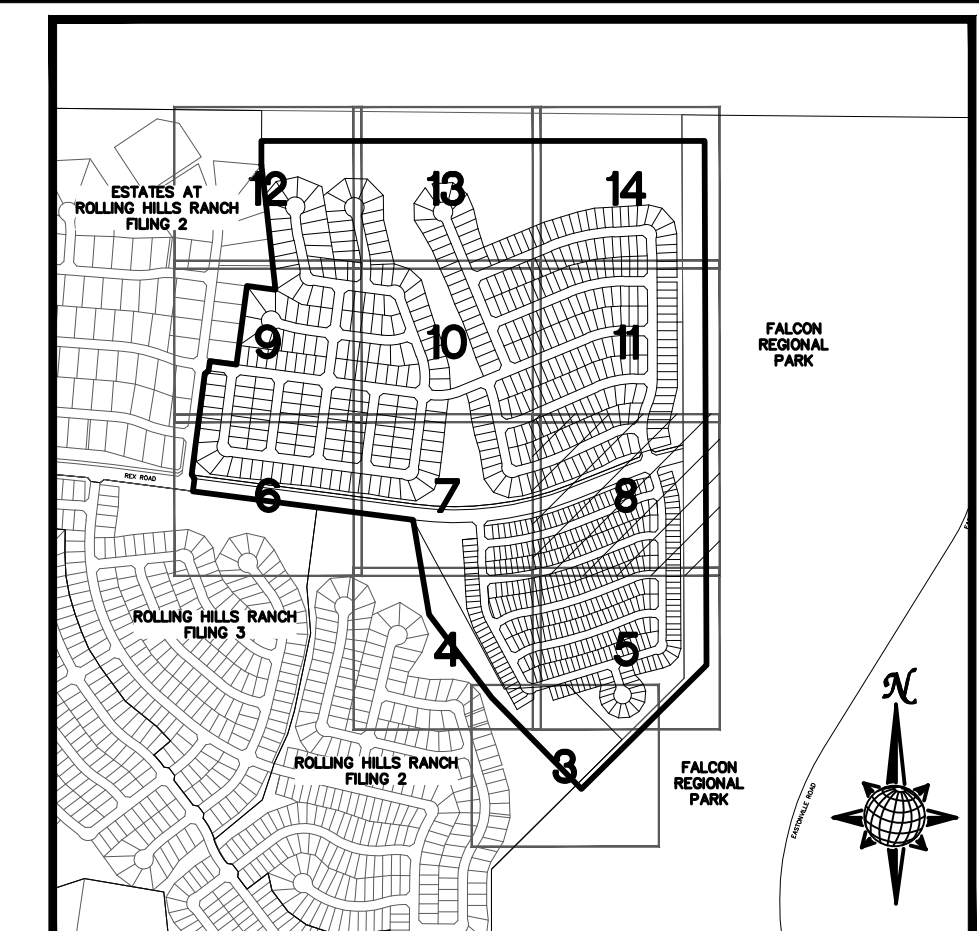
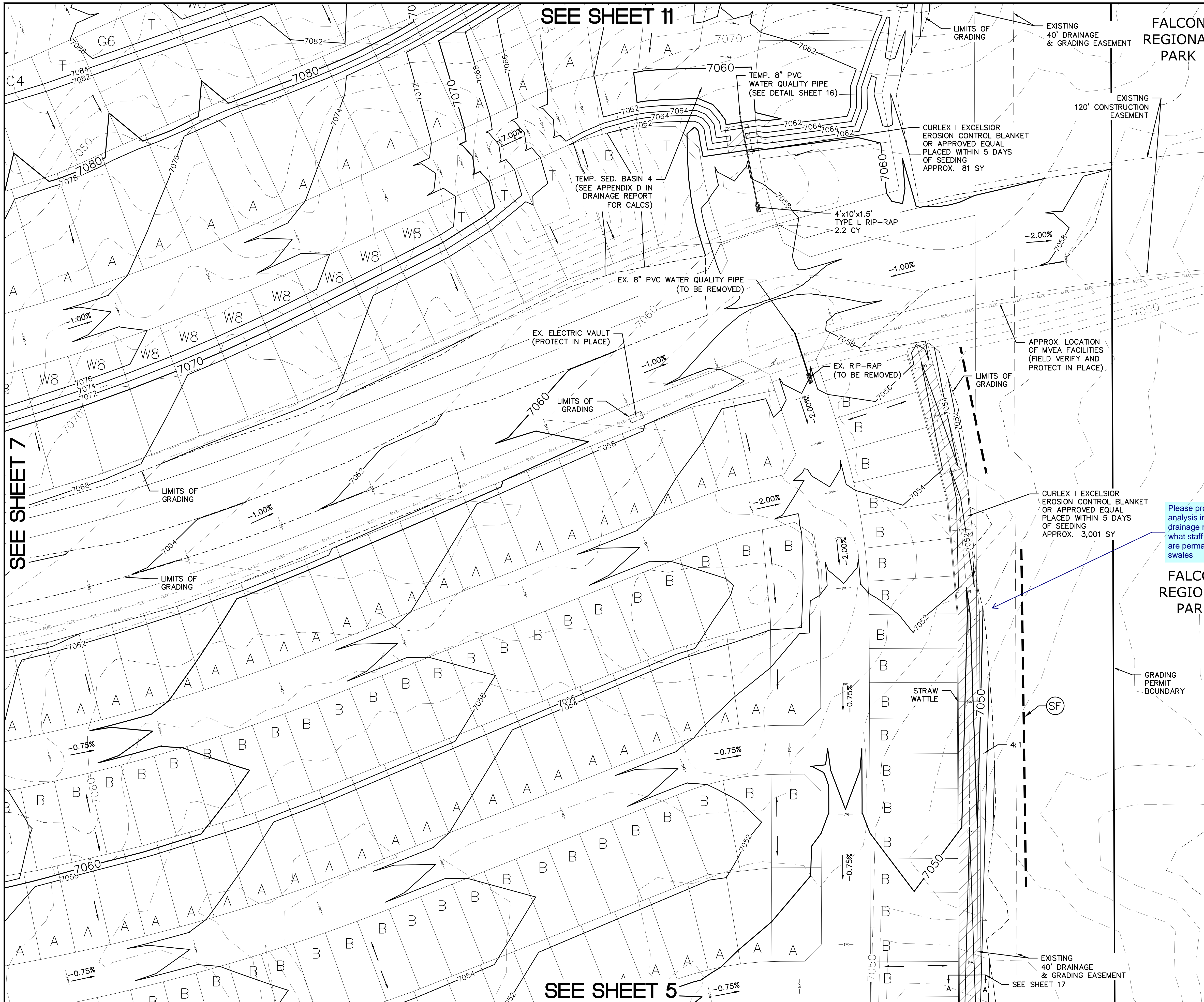
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TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457					Date
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PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN PLAN SHEET					Date
Drawn by	LOG	Checked by	TAK	Date	MARCH 2022
Scale	AS SHOWN	7	of 23		



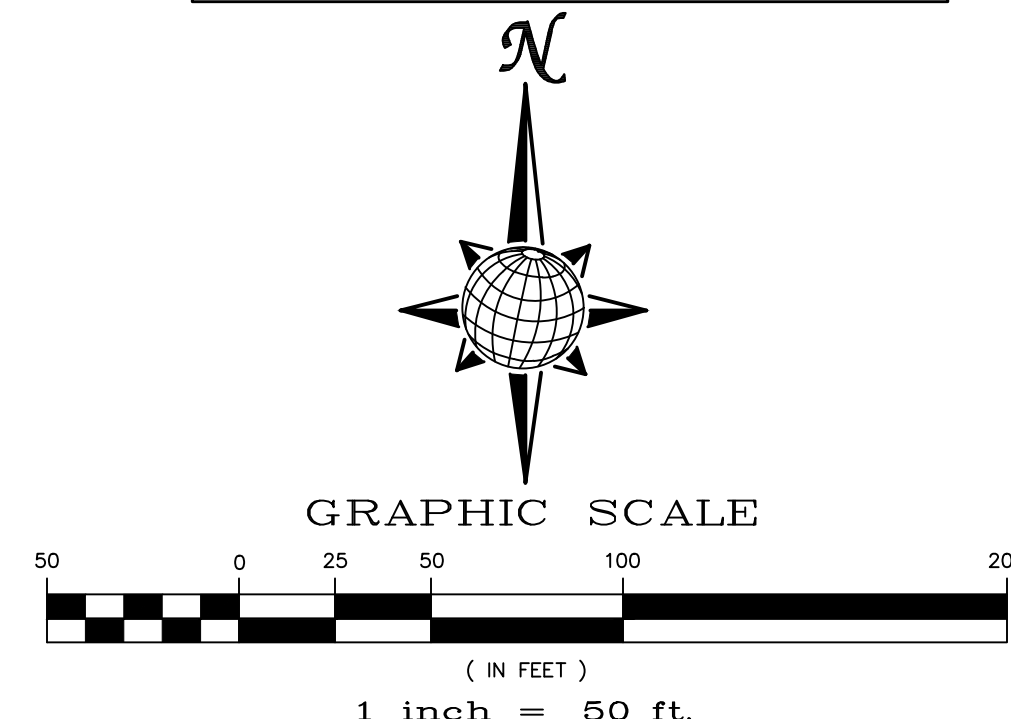
**INDEX MAP**  
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		LIMITS OF GRADING
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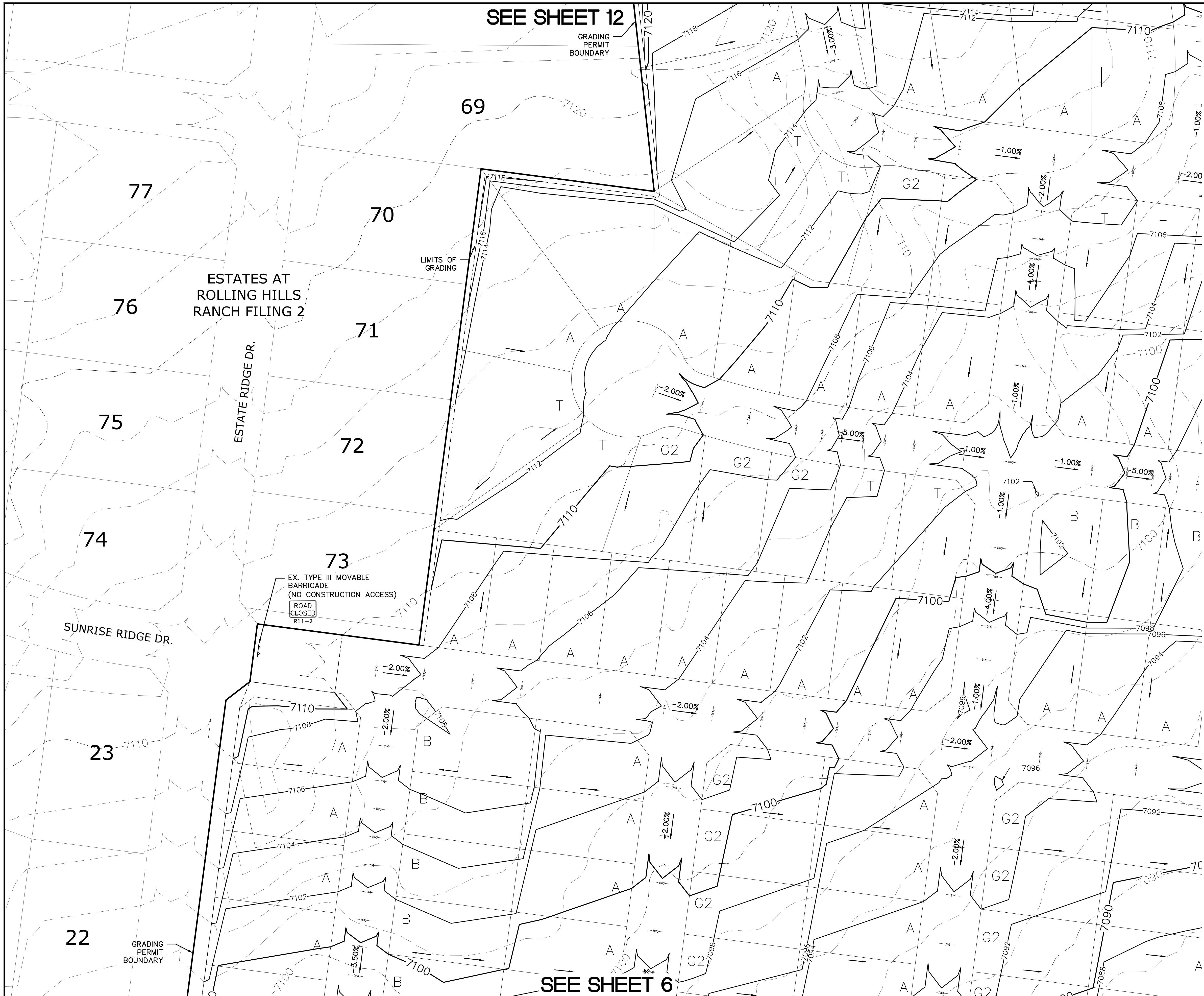
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Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				MARCH 2022
Scale	8 of 23			

Please provide analysis in your drainage report of what staff assumes are permanent/final swales





SEE SHEET 12

GRADING PERMIT BOUNDARY

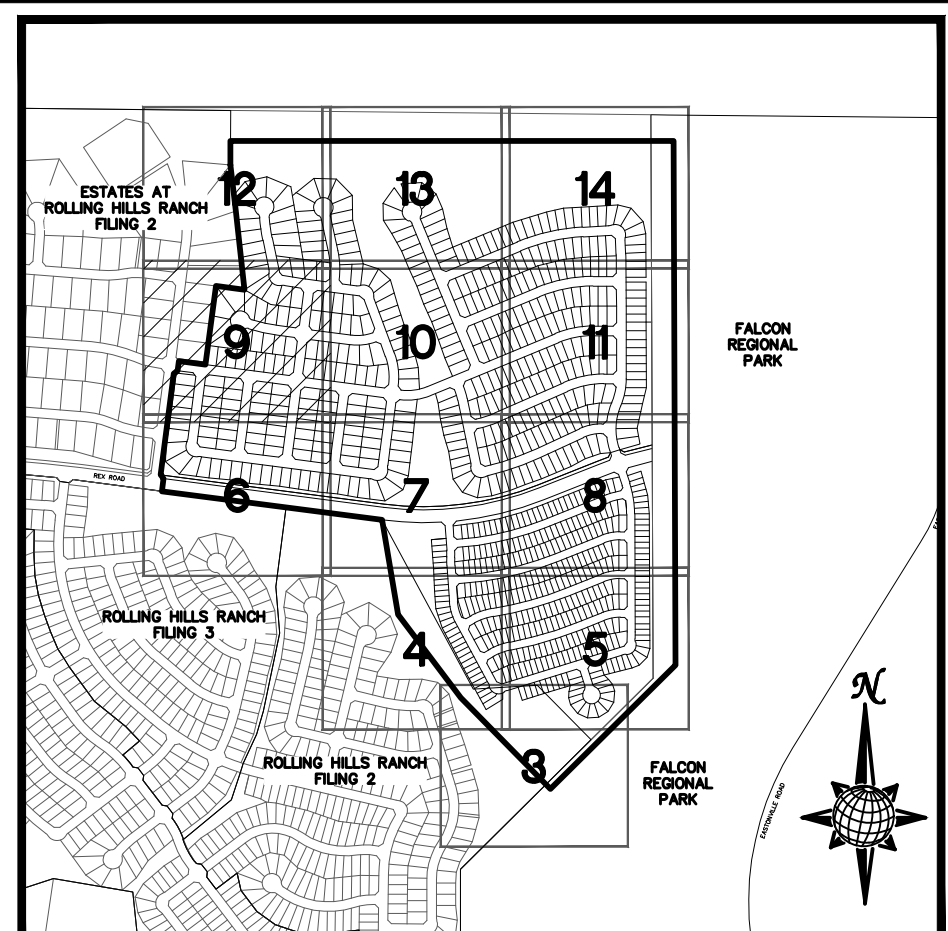
ESTATES AT ROLLING HILLS RANCH FILING 2

ESTATE RIDGE DR.

SUNRISE RIDGE DR.

GRADING PERMIT BOUNDARY

SEE SHEET 6



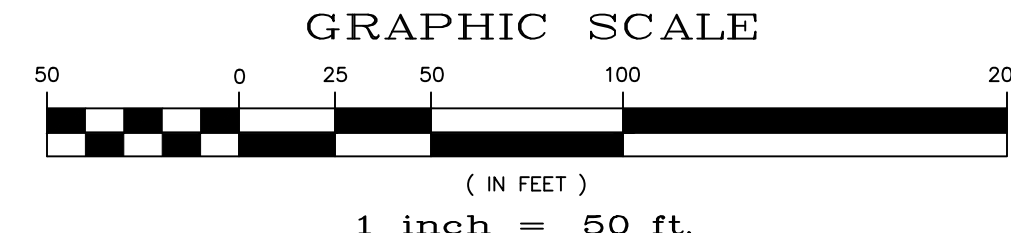
INDEX MAP  
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	2.00%	GRADE
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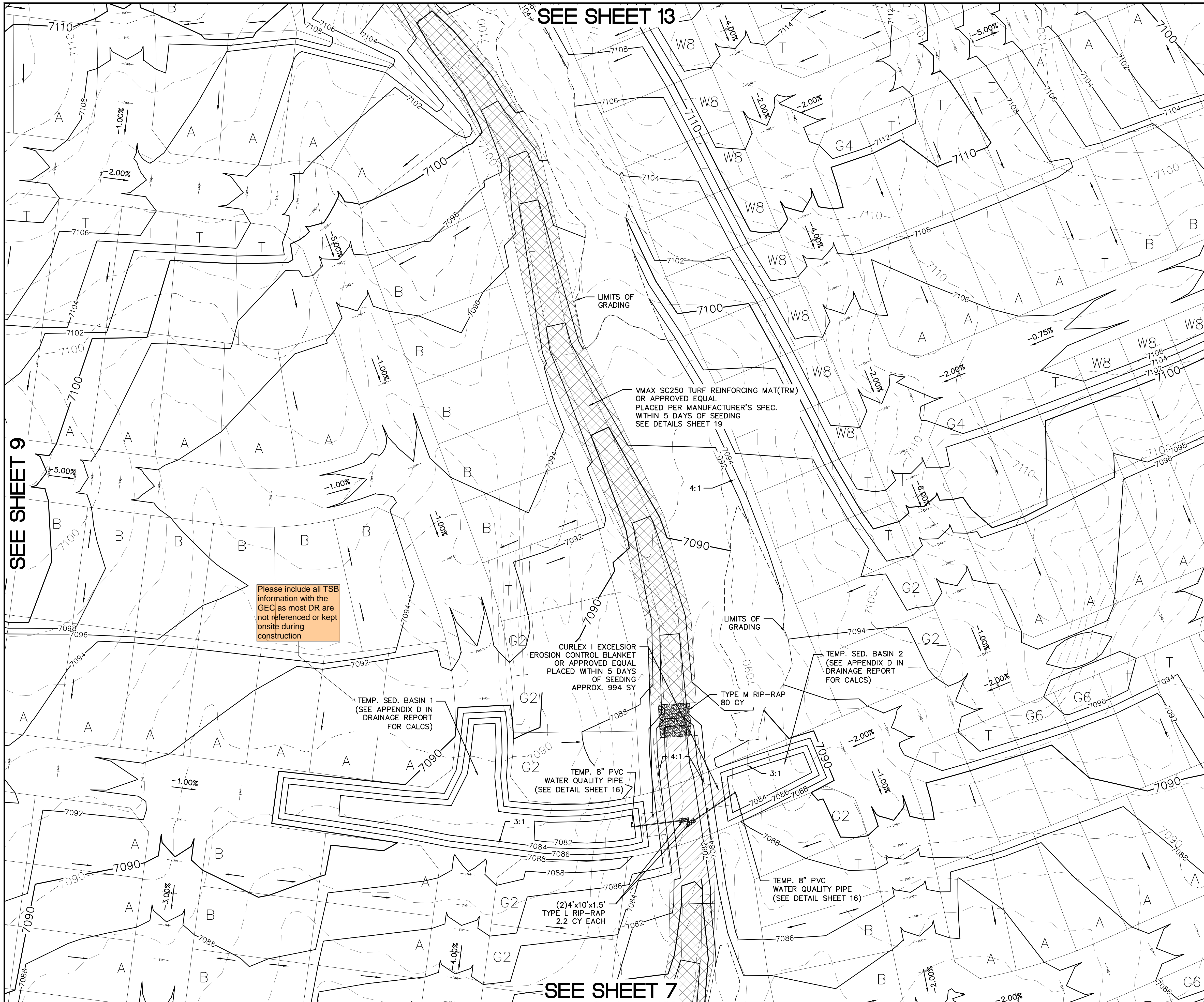
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SEE SHEET 10

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

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Drawn by LOG	Checked by TKM	Date MARCH 2022
Scale AS SHOWN	9 of 23	



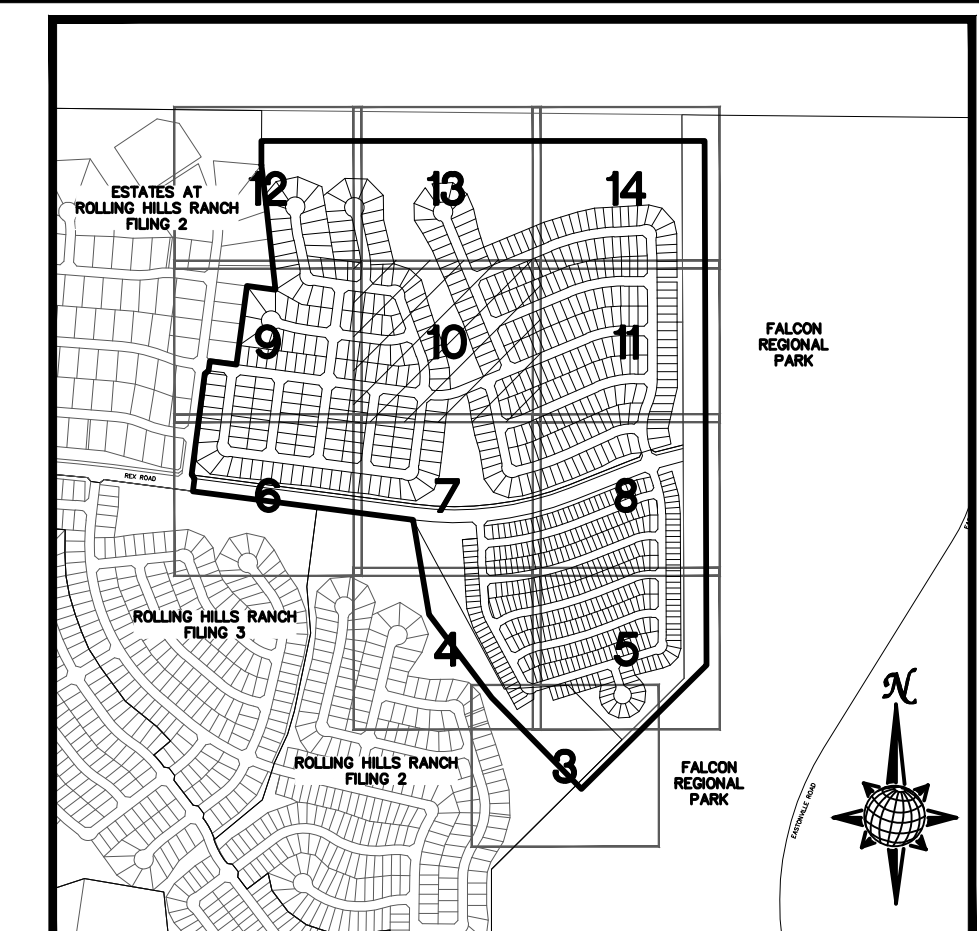
SEE SHEET 9

SEE SHEET 13

SEE SHEET 7

Please include all TSB information with the GEC as most DR are not referenced or kept onsite during construction

SEE SHEET 11



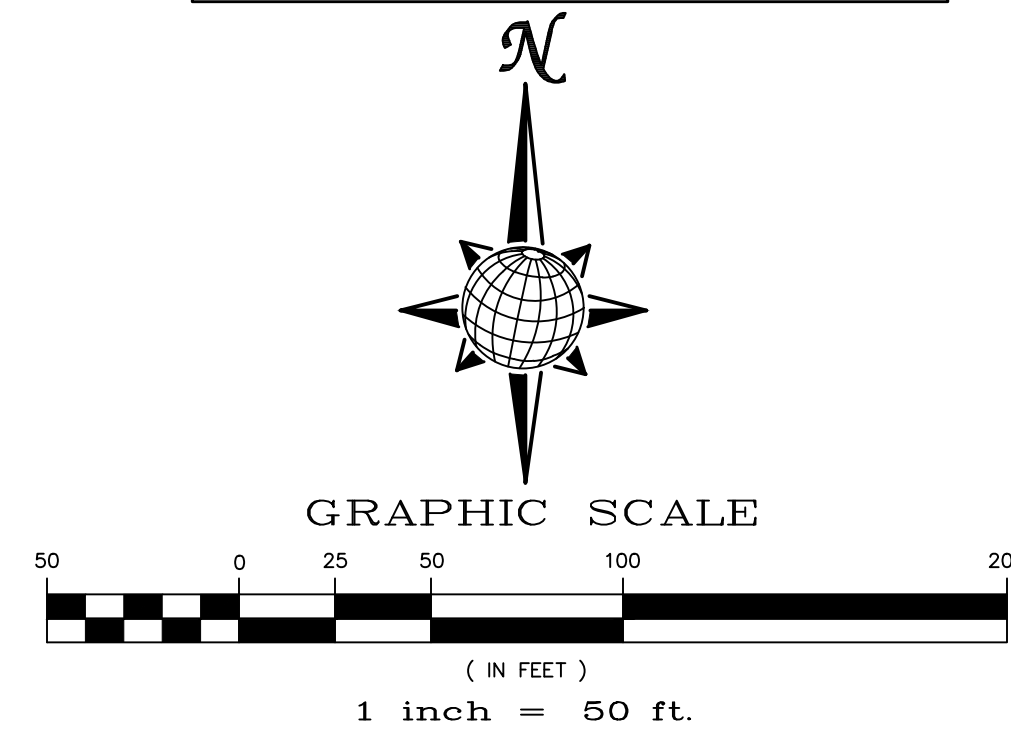
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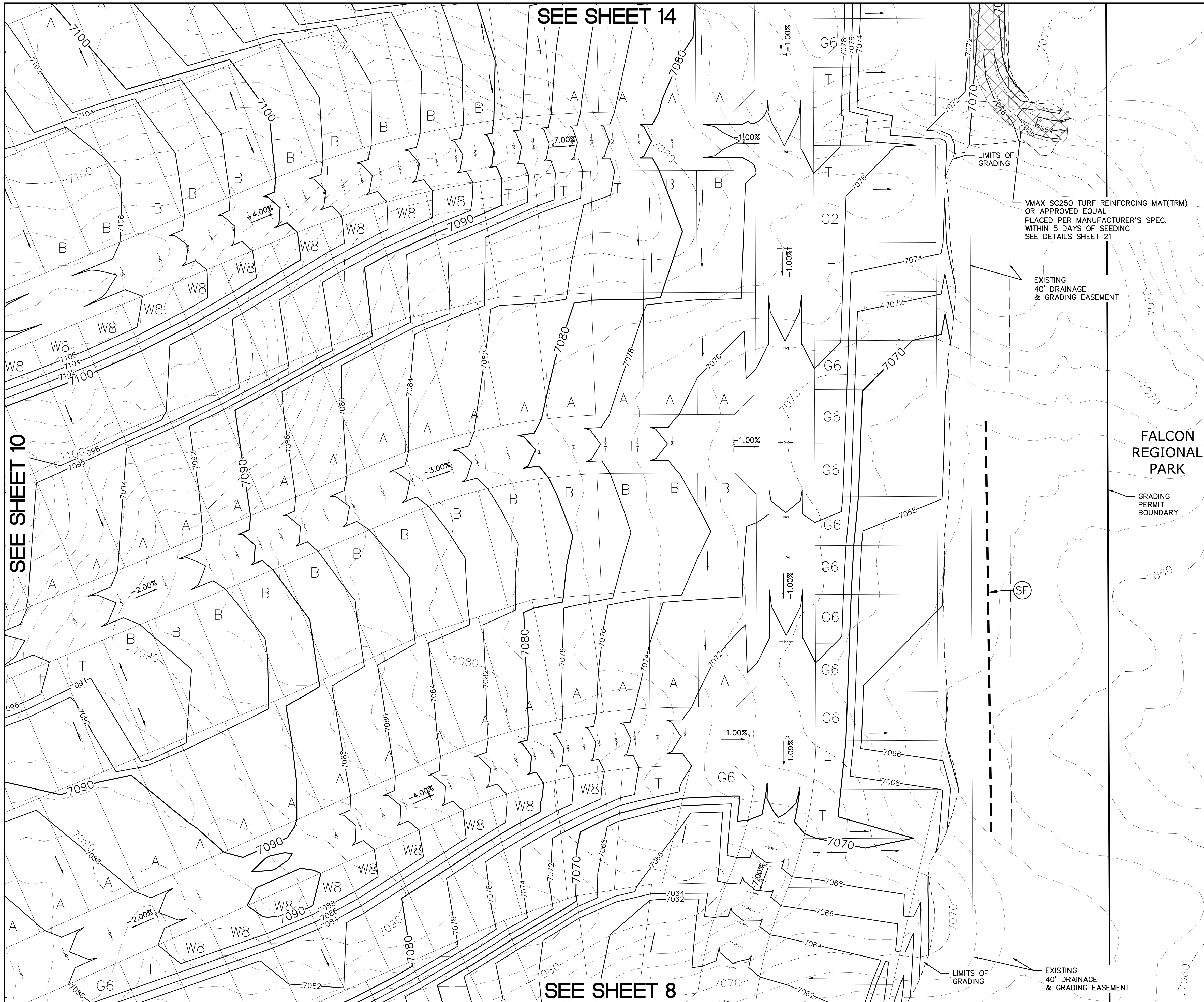
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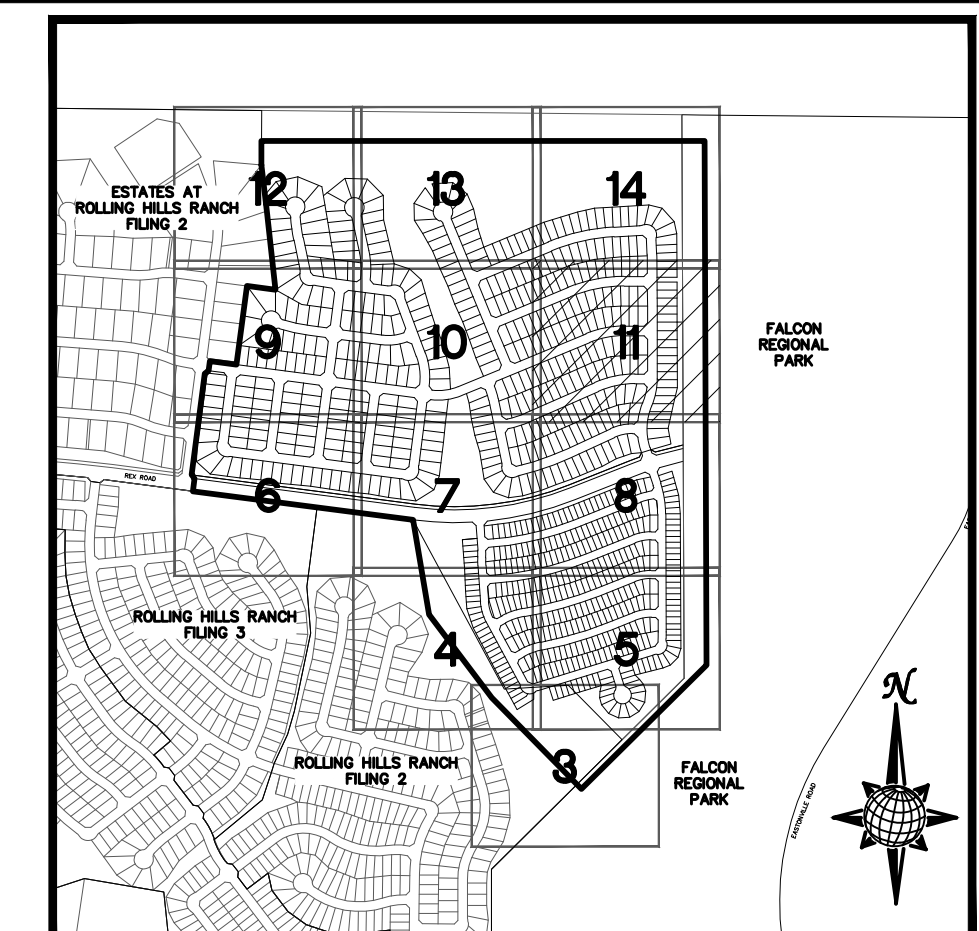
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Drawn by	LOG	Checked by	TAK	Date	MARCH 2022
Scale	AS SHOWN	10 of	23		
Revisions	No.	Date	Init.	Appr.	Date



SEE SHEET 14

SEE SHEET 10

SEE SHEET 8



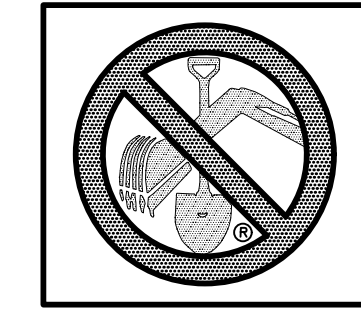
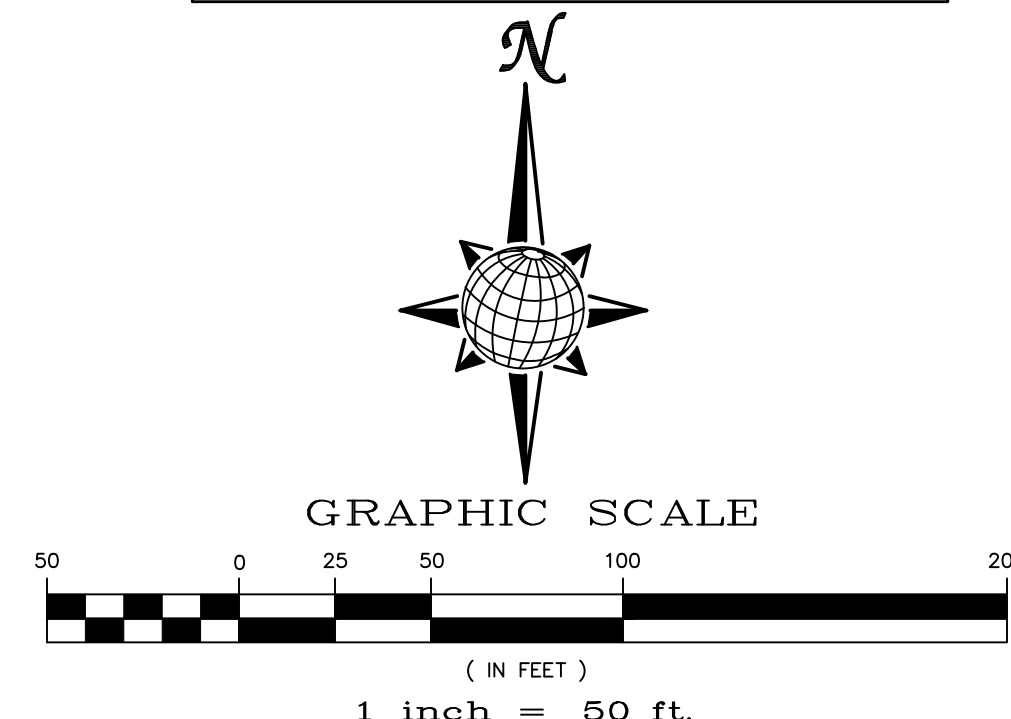
**INDEX MAP**  
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		EROSION WATTLES PER DETAIL SHEET 23
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
	RCP	REINFORCED CONCRETE PIPE
	SF	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
	VTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION PER DETAIL SHEET 23
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		CONSTRUCTION BOUNDARY
		FLOW DIRECTION
	2.00%	GRADE
	A	LOT GRADE TYPE

**NOTE:**  
ALL CONTOURS SHOWN WITHIN THE PLAN SET ARE TO FINISHED SURFACE. ALL STREET SECTIONS ARE TO BE GRADED TO ROUGH SUB-GRADE AS SHOWN IN THEIR RESPECTIVE TYPICAL STREET SECTION SHOWN ON SHEET 22.

CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.  
EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1) ESTATES AT ROLLING HILLS RANCH FILING 2  
2) ROLLING HILLS RANCH FILING 3  
3) ROLLING HILLS RANCH FILING 2  
4) ROLLING HILLS RANCH FILING 1  
5) ROUGH GRADING FOR ROLLING HILLS RANCH  
6) EASTONVILLE RAW WATER PIPELINE  
7) 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)

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

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

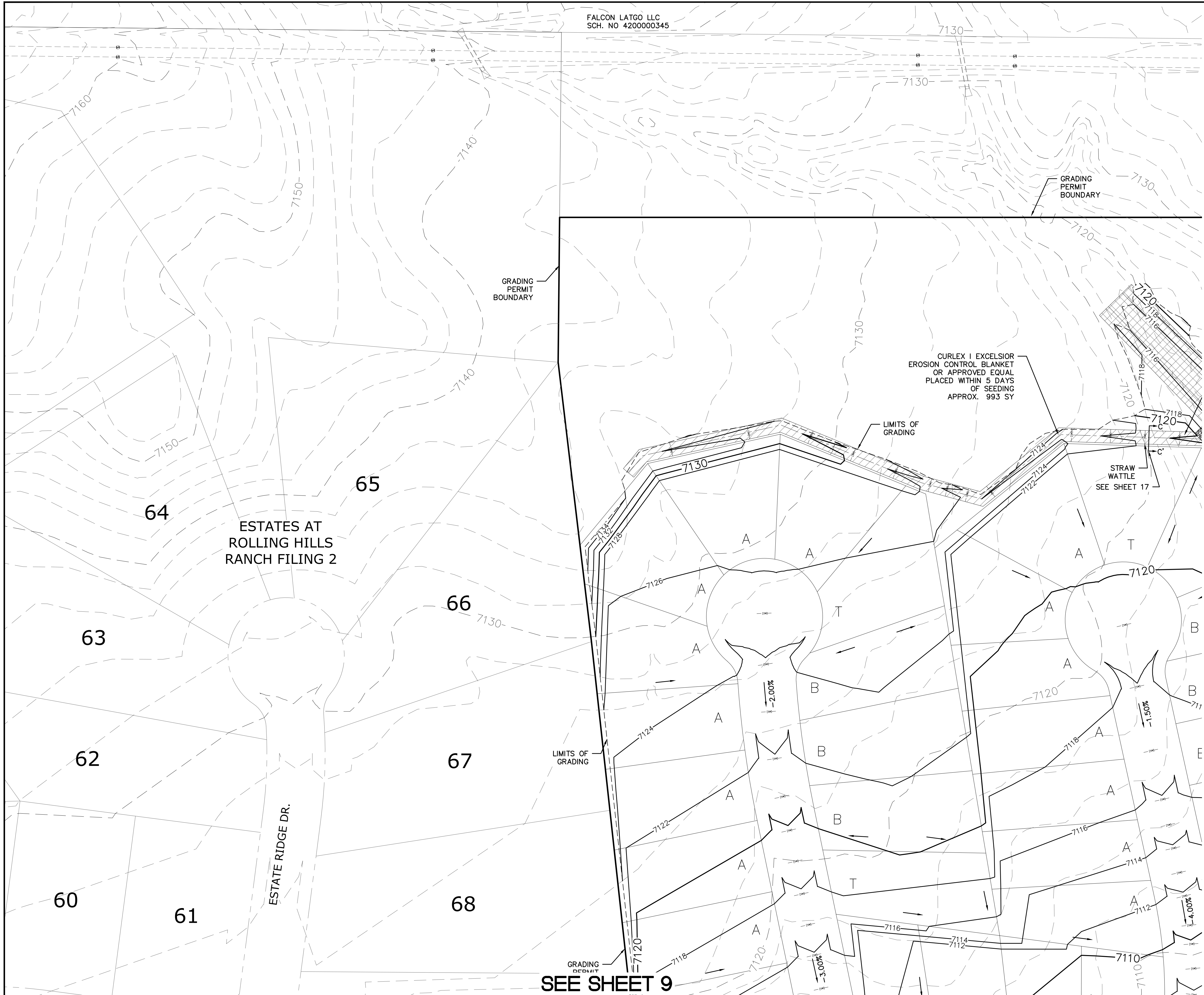
<b>MERIDIAN RANCH</b>	

PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN PLAN SHEET	
--	--

Drawn by	LOG	Checked by	TAK	Date	MARCH 2022
Scale	AS SHOWN	11	of 23		



FALCON LATGO LLC  
SCH. NO 4200000345

GRADING PERMIT BOUNDARY

GRADING PERMIT BOUNDARY

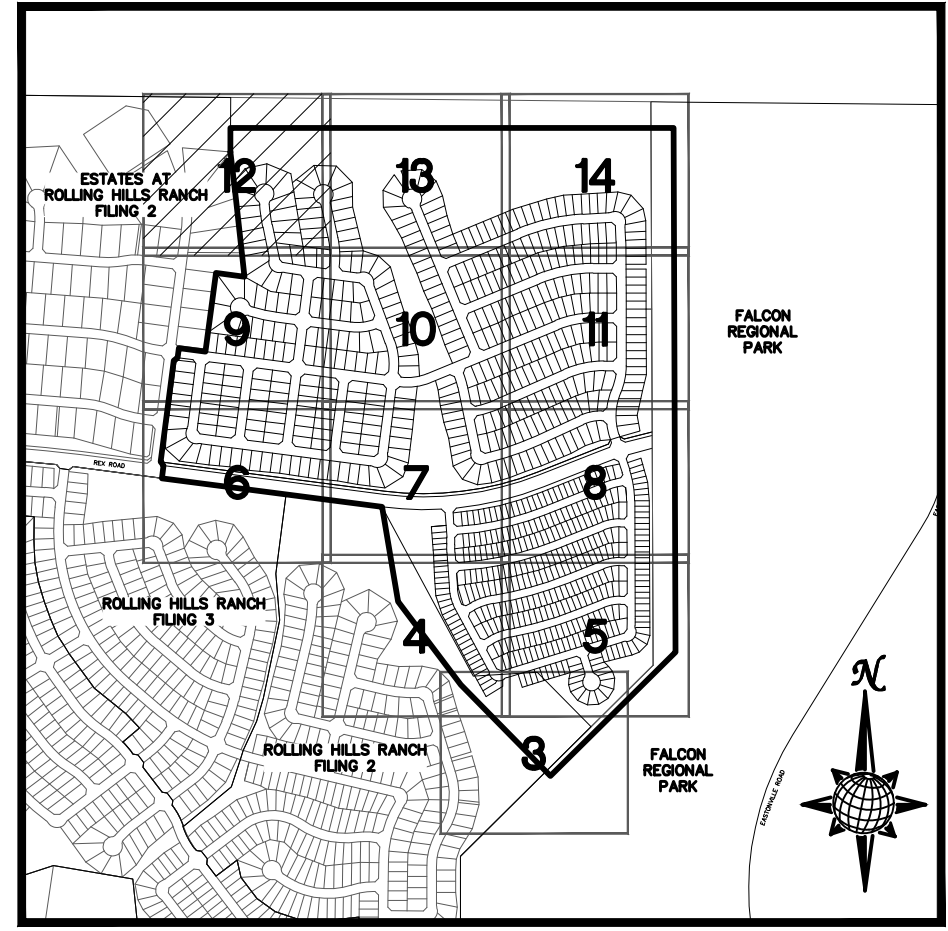
CURLEX 1 EXCELSIOR  
EROSION CONTROL BLANKET  
OR APPROVED EQUAL  
PLACED WITHIN 5 DAYS  
OF SEEDING  
APPROX. 993 SY

LIMITS OF GRADING

STRAW WATTLE  
SEE SHEET 17

LIMITS OF GRADING

GRADING PERMIT BOUNDARY  
**SEE SHEET 9**



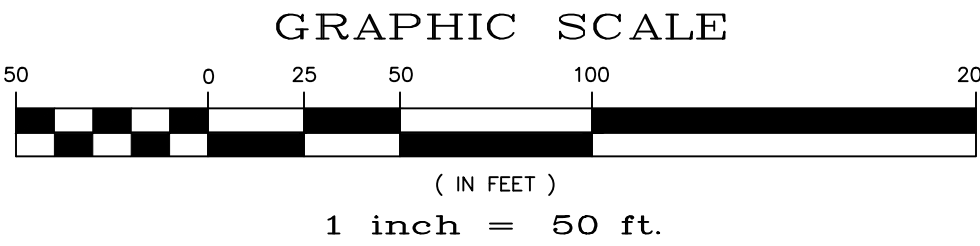
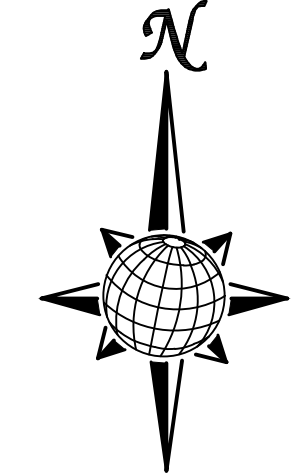
**INDEX MAP**  
N.T.S.

**LEGEND**

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES PER DETAIL SHEET 23
		EROSION WATTLES PER DETAIL SHEET 23
		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 23
LIMITS OF GRADING		
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		CONSTRUCTION BOUNDARY
		FLOW DIRECTION
	2.00%	GRADE
	A	LOT GRADE TYPE

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3) ROLLING HILLS RANCH FILING 2  
4) ROLLING HILLS RANCH FILING 1  
5) ROUGH GRADING FOR ROLLING HILLS RANCH  
6) EASTONVILLE RAW WATER PIPELINE  
7) MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD

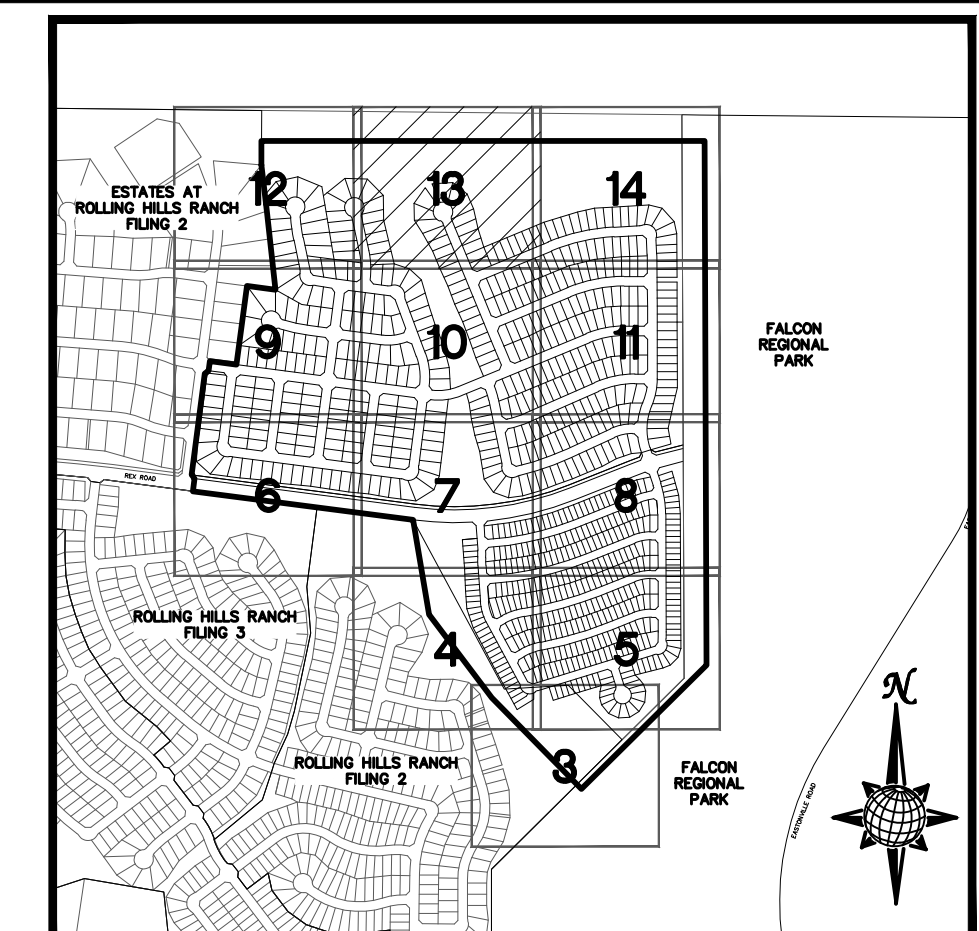
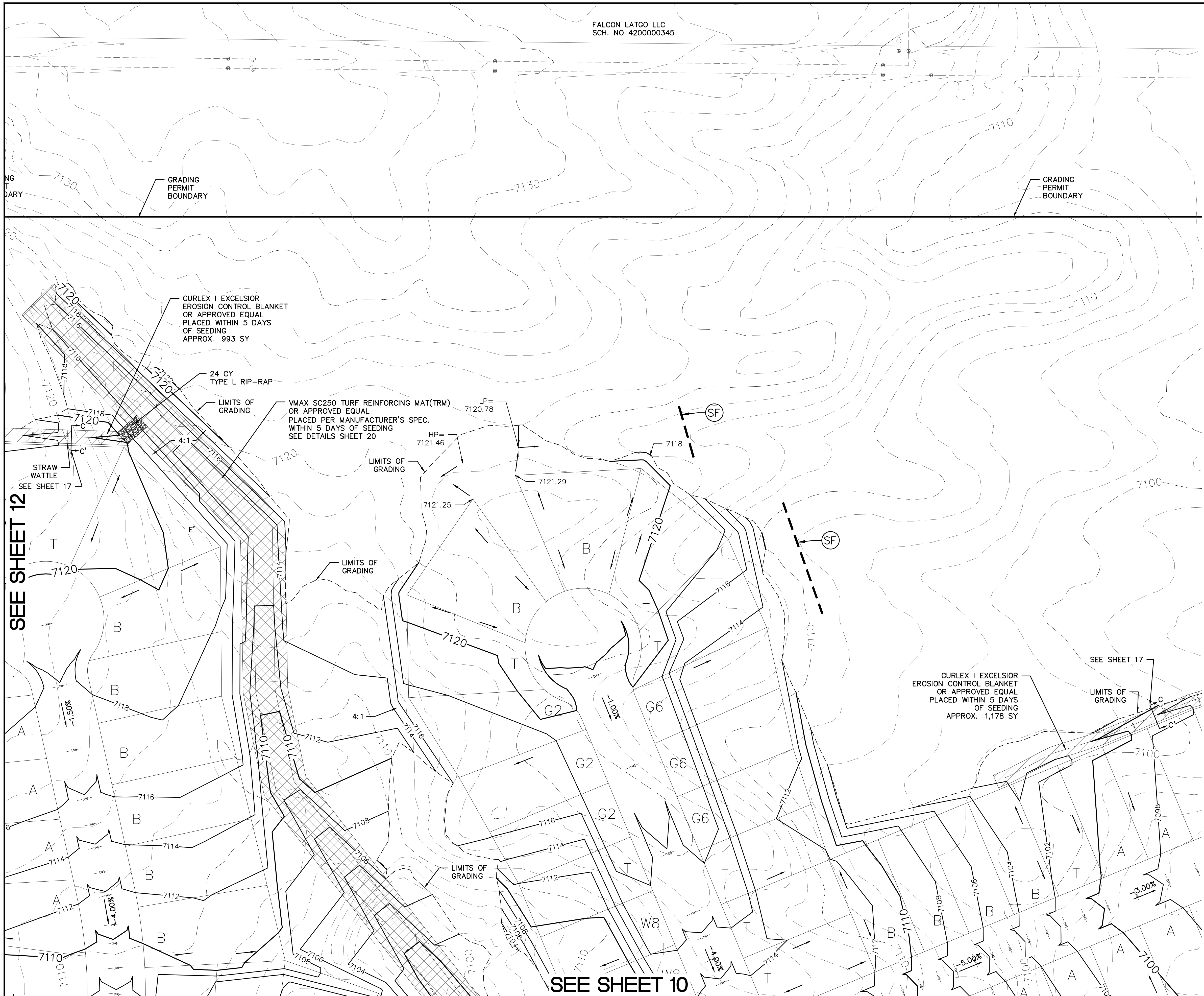


**TWO WORKING DAYS  
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CALL 811**  
OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

**SEE SHEET 13**

TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457	1	2	3	4	No.
<b>MERIDIAN RANCH</b> 	Drawn by	LOG	Checked by	TAK	Date
	AS SHOWN				MARCH 2022
	Scale		12 of 23		

FALCON LATGO LLC  
SCH. NO 4200000345



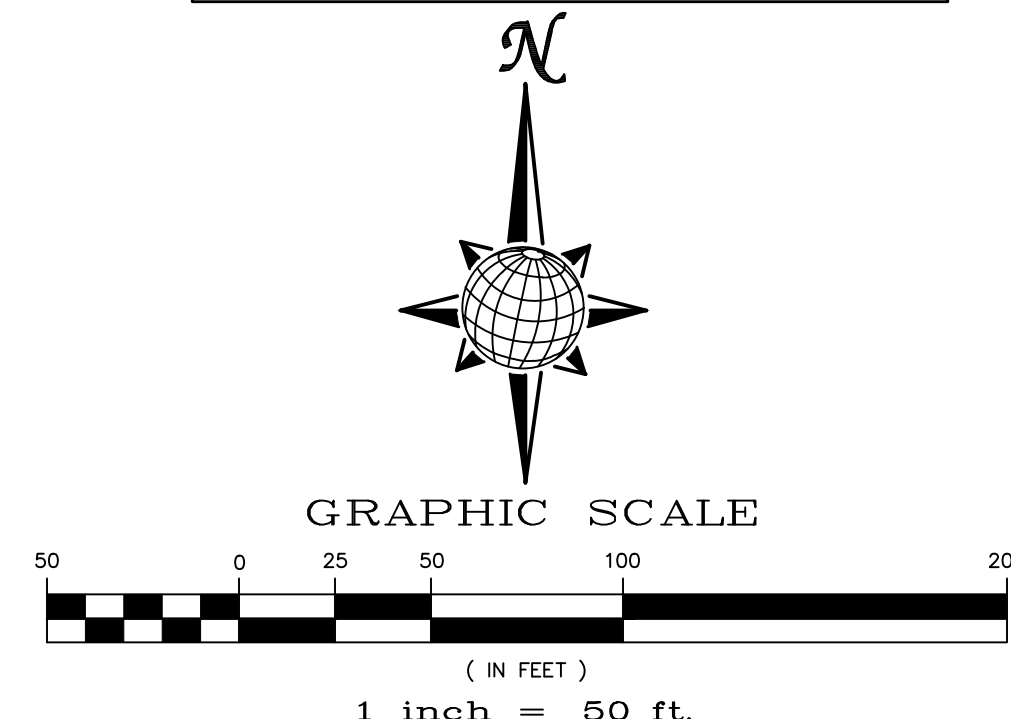
### INDEX MAP N.T.S.

#### LEGEND

SYMBOL	ACRONYM	DESCRIPTION
(Straw bale symbol)		STRAW BALES PER DETAIL SHEET 23
(Erosion control blanket symbol)		EROSION CONTROL BLANKET PER DETAIL SHEET 23
(Erosion control blanket symbol)		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
(RCP symbol)	RCP	REINFORCED CONCRETE PIPE
(Silt fence symbol)	SF	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
(Vehicle tracking control symbol)	VTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
(Inlet protection symbol)	IP	INLET PROTECTION PER DETAIL SHEET 23
(Dashed line symbol)		LIMITS OF GRADING
(Dashed line symbol)		EXISTING CONTOUR (10')
(Dashed line symbol)		EXISTING CONTOUR (2')
(Solid line symbol)		PROPOSED CONTOUR (10')
(Solid line symbol)		PROPOSED CONTOUR (2')
(Thick solid line symbol)		CONSTRUCTION BOUNDARY
(Arrow symbol)		FLOW DIRECTION
(Number symbol)		GRADE
(Letter symbol)		LOT GRADE TYPE

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EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:  
1) ESTATES AT ROLLING HILLS RANCH FILING 2  
2) ROLLING HILLS RANCH FILING 3  
3) ROLLING HILLS RANCH FILING 2  
4) ROLLING HILLS RANCH FILING 1  
5) ROUGH GRADING FOR ROLLING HILLS RANCH  
6) EASTONVILLE RAW WATER PIPELINE  
7) MSMD PUMP STATION AND WATER TANK WATER TRANSMISSION LINES AND ROAD



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

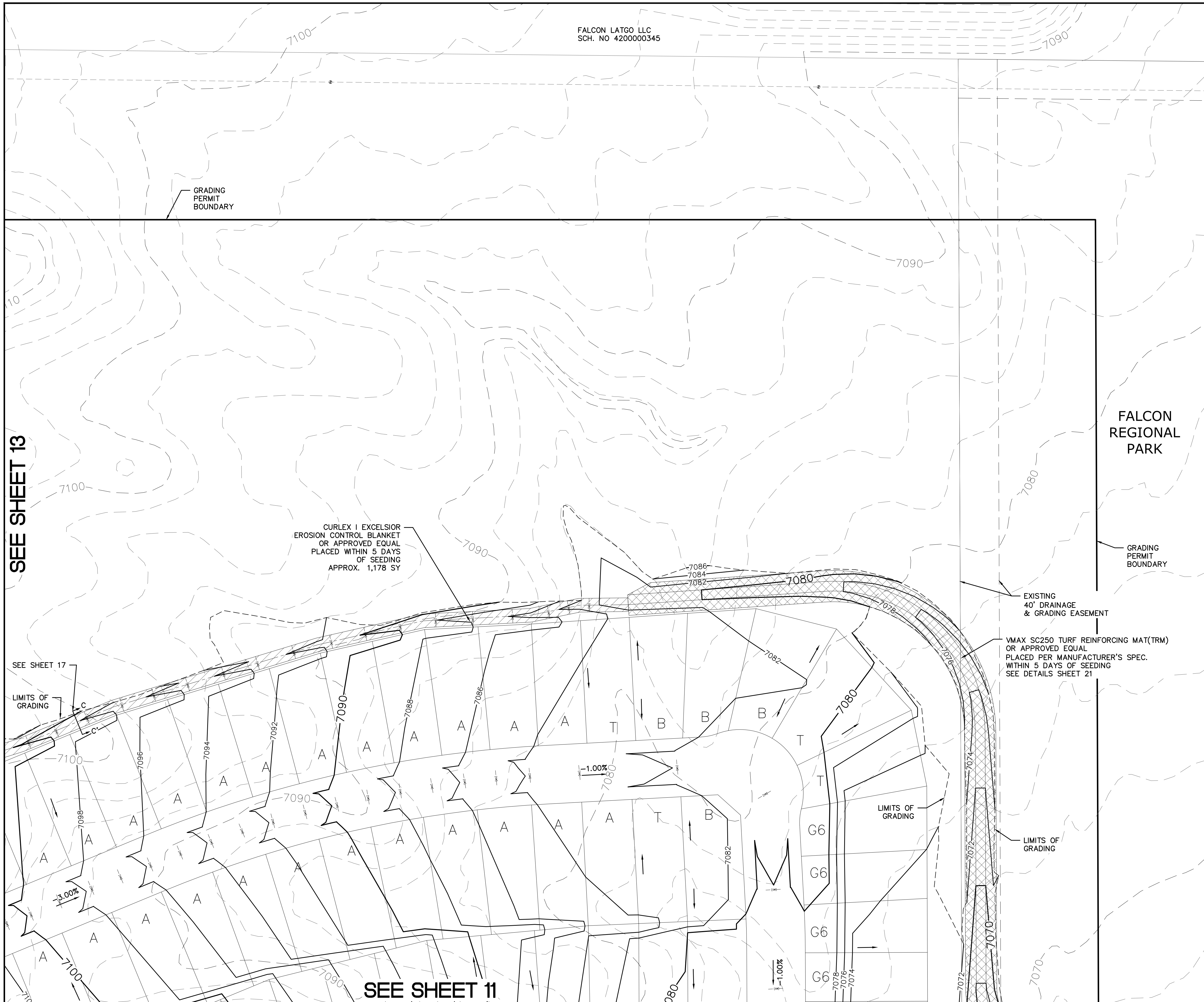
OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)

SEE SHEET 12

SEE SHEET 14

SEE SHEET 10

				No.	Revisions	Date	Appr.	
1	2	3	4	No.				
TECH CONTRACTORS			11886 STAPLETON DRIVE					
FALCON, CO 80831			719.495.7444					
TELEPHONE:			719.495.7444					
FAX:			719.495.2457					
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN PLAN SHEET								
Drawn by	LOG	Checked by	TAK	Date	MARCH 2022			
Scale	AS SHOWN		13 of 23					

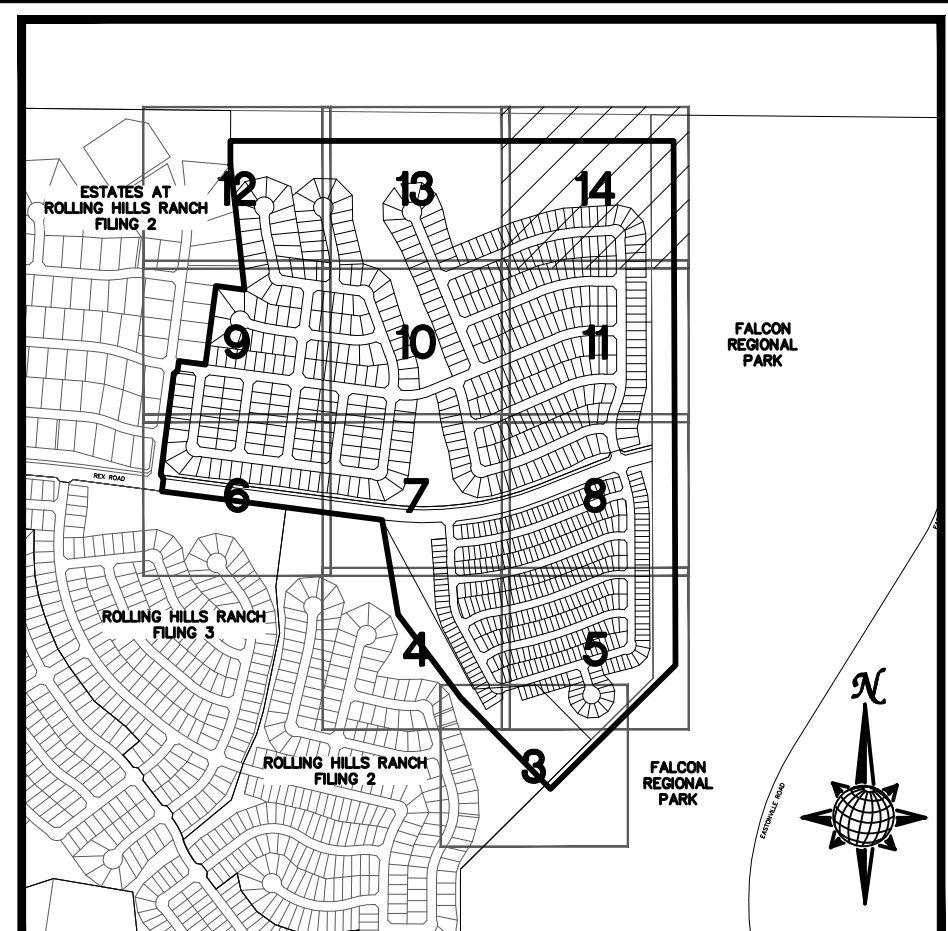


SEE SHEET 13

SEE SHEET 17

SEE SHEET 11

FALCON LATGO LLC  
SCH. NO 420000345



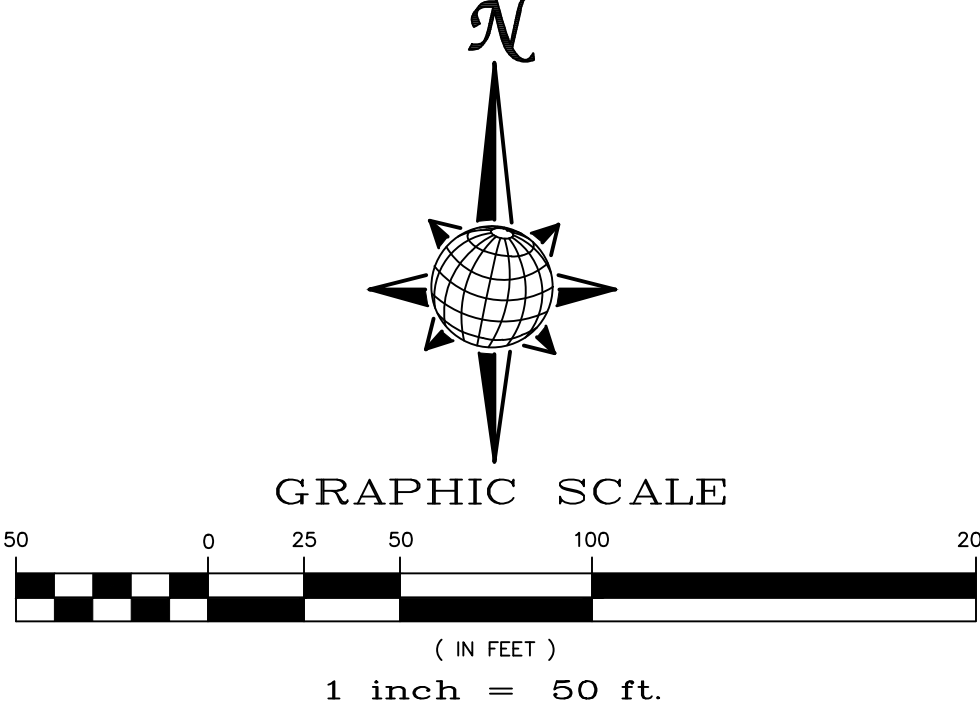
**INDEX MAP**  
N.T.S.

**LEGEND**

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES PER DETAIL SHEET 23
		EROSION WATTLES PER DETAIL SHEET 23
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
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	VTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION PER DETAIL SHEET 23
<b>LIMITS OF GRADING</b>		
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		CONSTRUCTION BOUNDARY
		FLOW DIRECTION
	2.00%	GRADE
	A	LOT GRADE TYPE

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

Revisions		No.	Date	Appr.

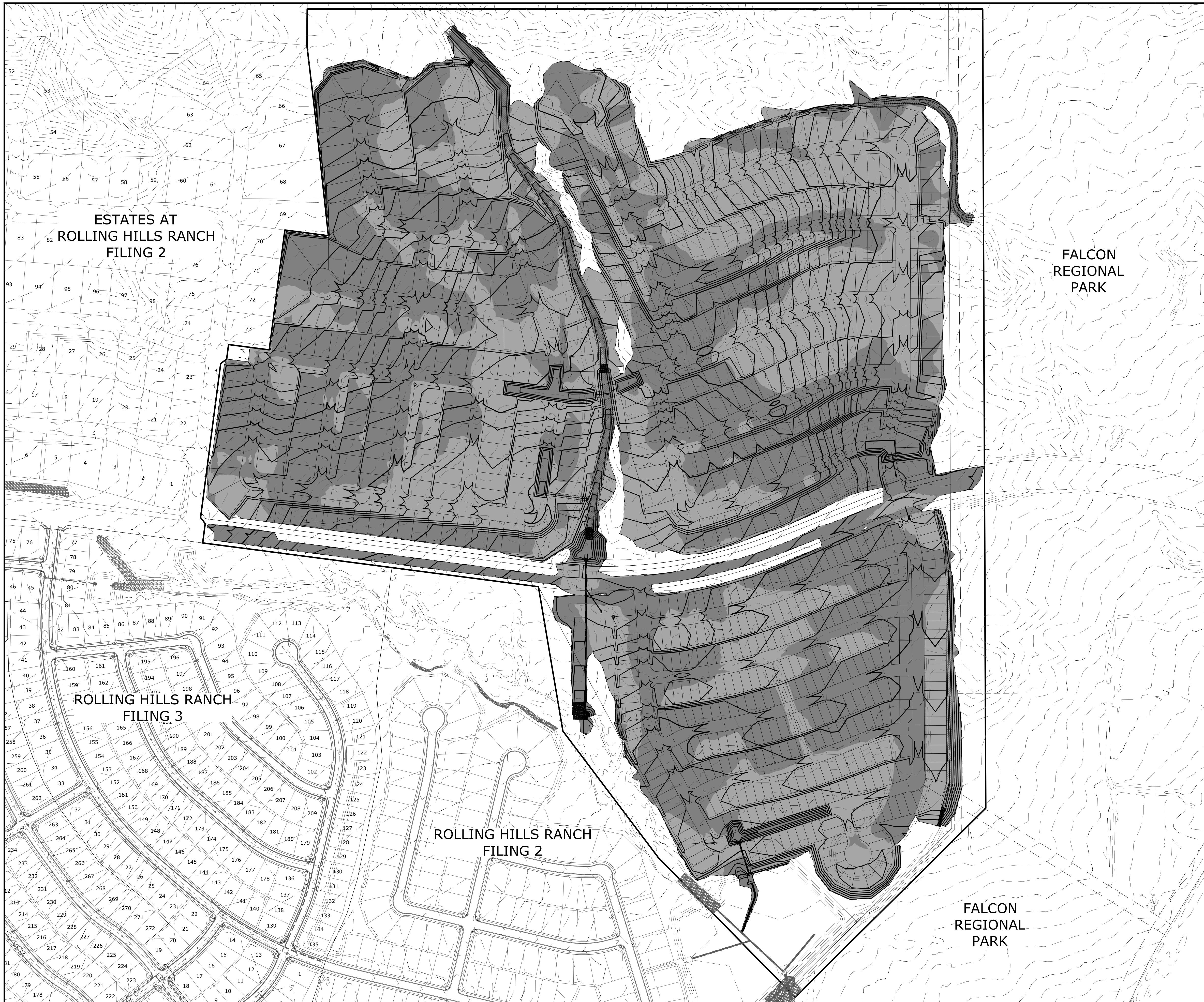
TECH CONTRACTORS  
11886 STAPLETON DRIVE  
FALCON, CO 80831  
TELEPHONE: 719.495.7444  
FAX: 719.495.2457

**MERIDIAN RANCH**



PREDEVELOPMENT GRADING  
ROLLING HILLS RANCH NORTH  
ROUGH GRADING AND EROSION  
CONTROL PLAN  
PLAN SHEET

Drawn by	LOG
Checked by	TAK
Date	MARCH 2022

Scale AS SHOWN	14 of 23
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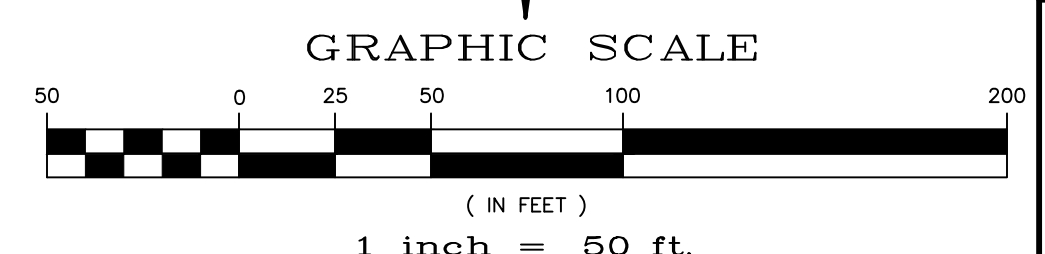


LEGEND:

- AREAS OF CUT 
- AREAS OF FILL 

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

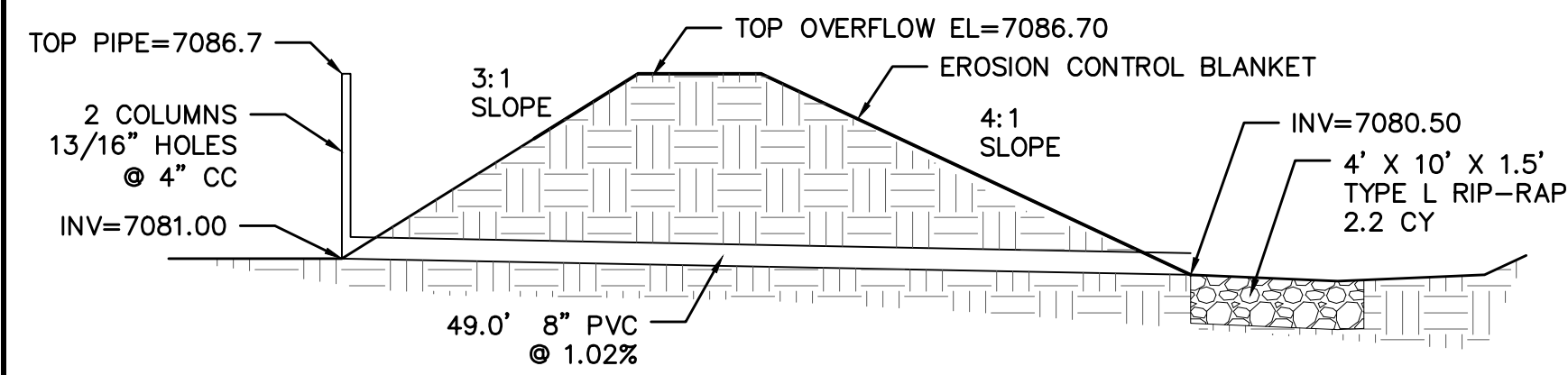


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 1-800-922-1987  
 (SEE COVER FOR LIST OF UTILITY CONTACTS)

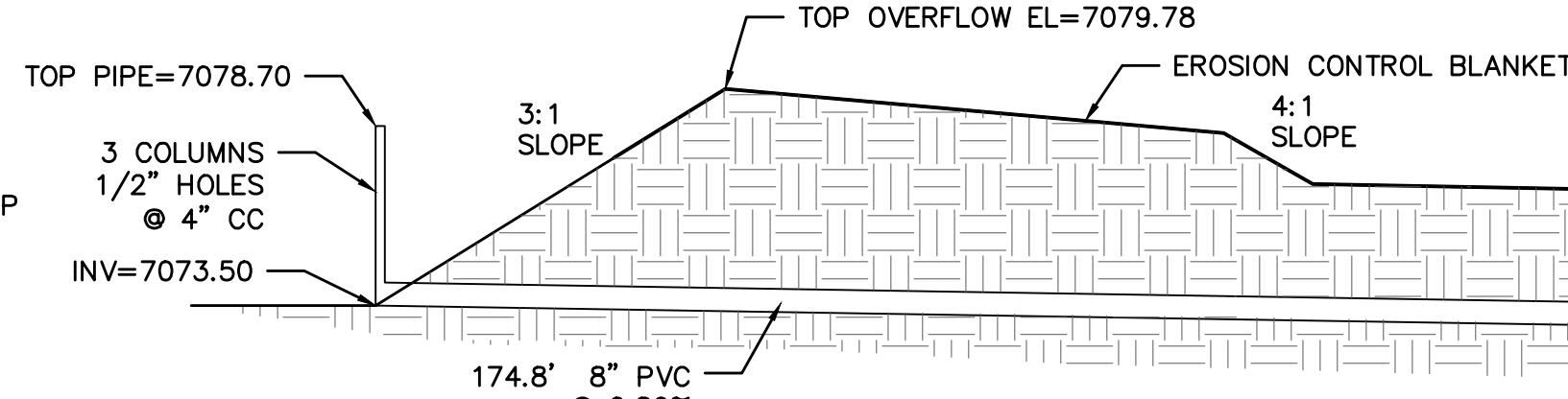
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		No.		Revisions		Date		Appr.	
		1							
		2							
		3							
		4							

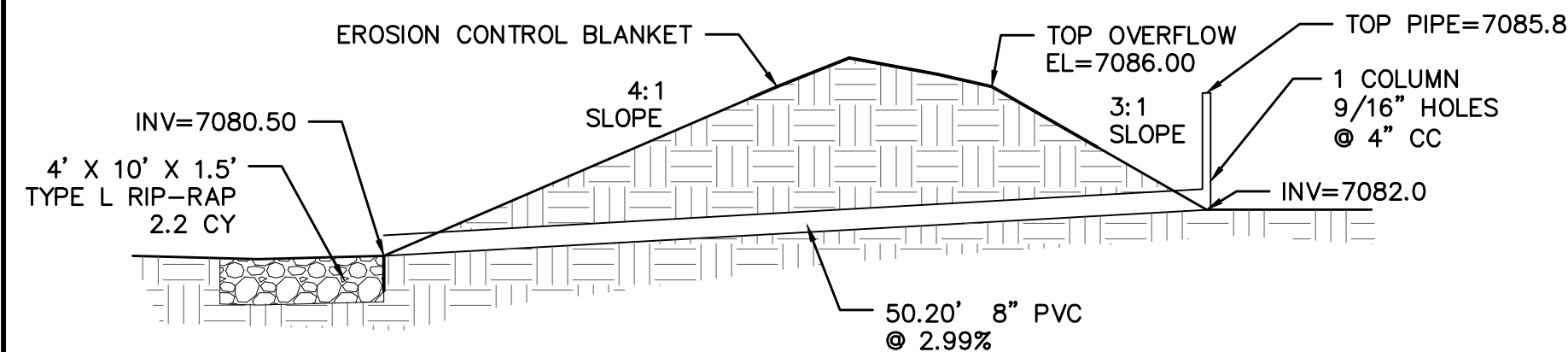
 <b>MERIDIAN RANCH</b>		Drawn by LOG		Checked by TIK		Date MARCH 2022	
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN CUT-FILL SHEET				Scale AS SHOWN		15 of 23	



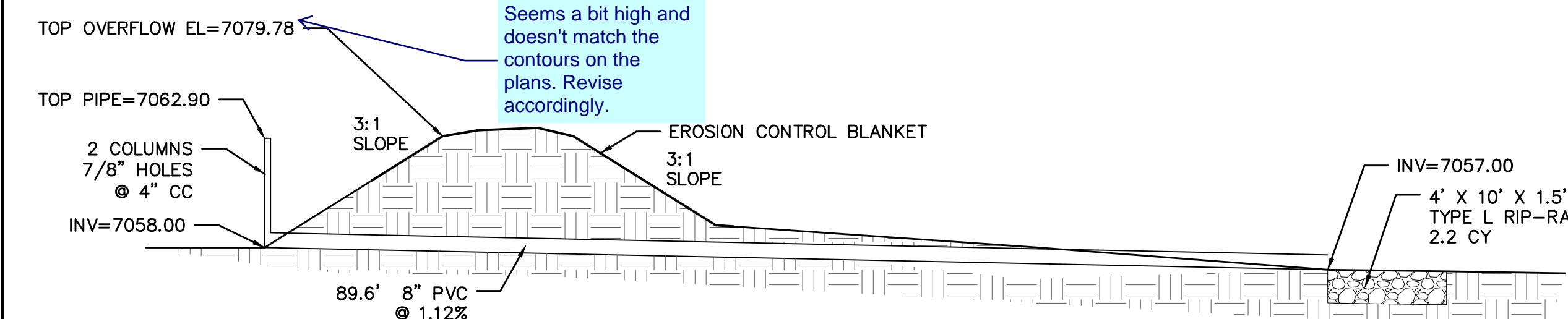
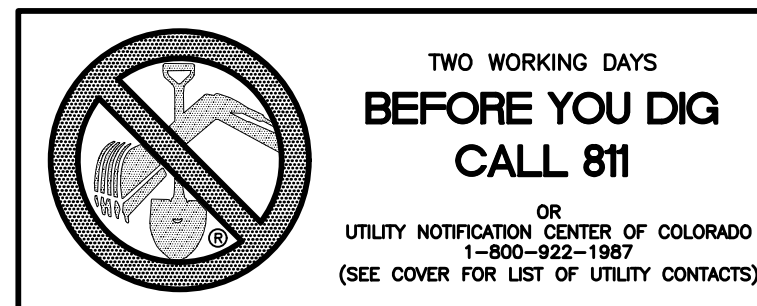
**TEMPORARY SEDIMENTATION POND 1**  
 TEMPORARY SEDIMENTATION AND WATER QUALITY PIPE  
 CROSS SECTION  
 NTS



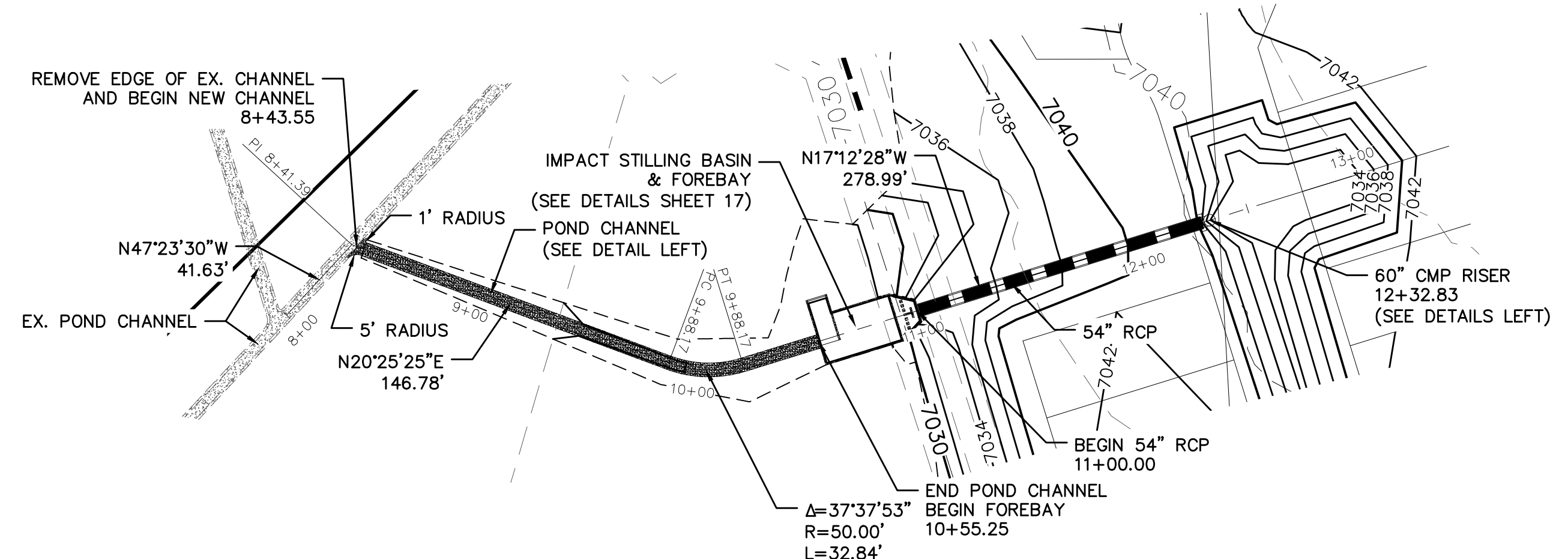
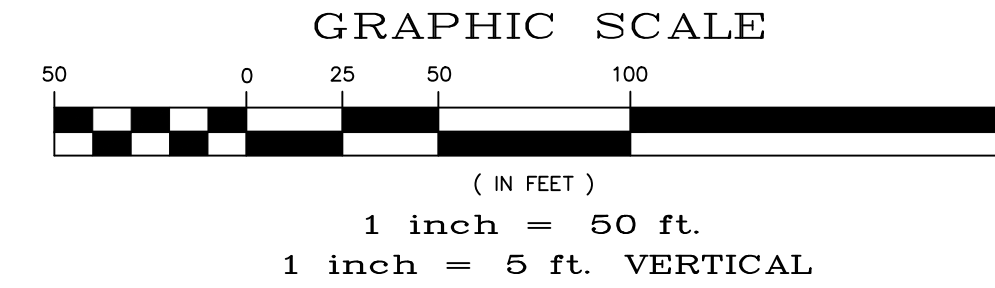
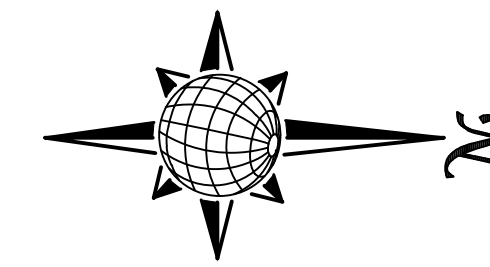
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 TEMPORARY SEDIMENTATION AND WATER QUALITY PIPE  
 CROSS SECTION  
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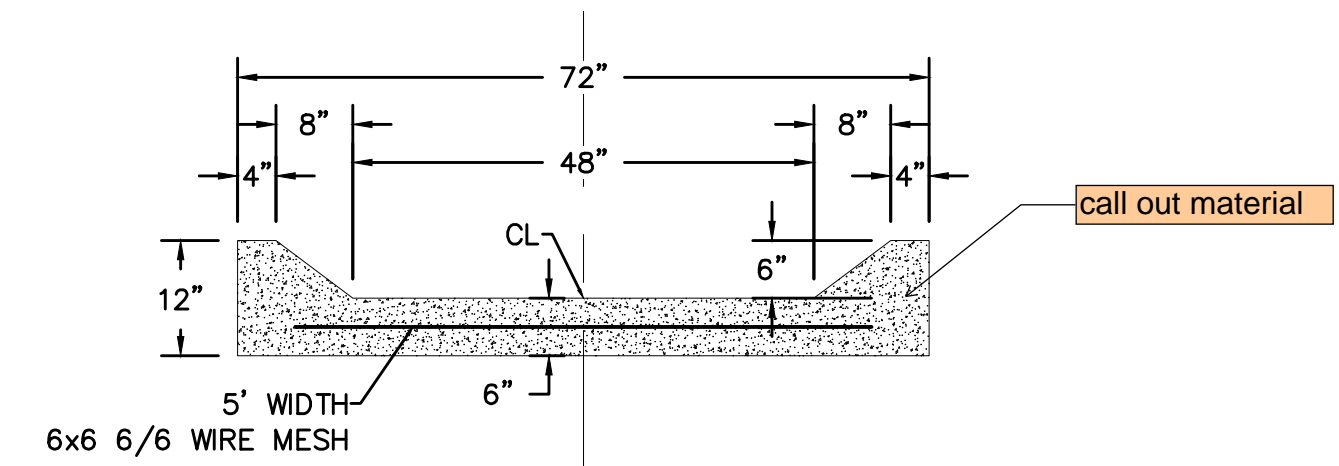
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 TEMPORARY SEDIMENTATION AND WATER QUALITY PIPE  
 CROSS SECTION  
 NTS



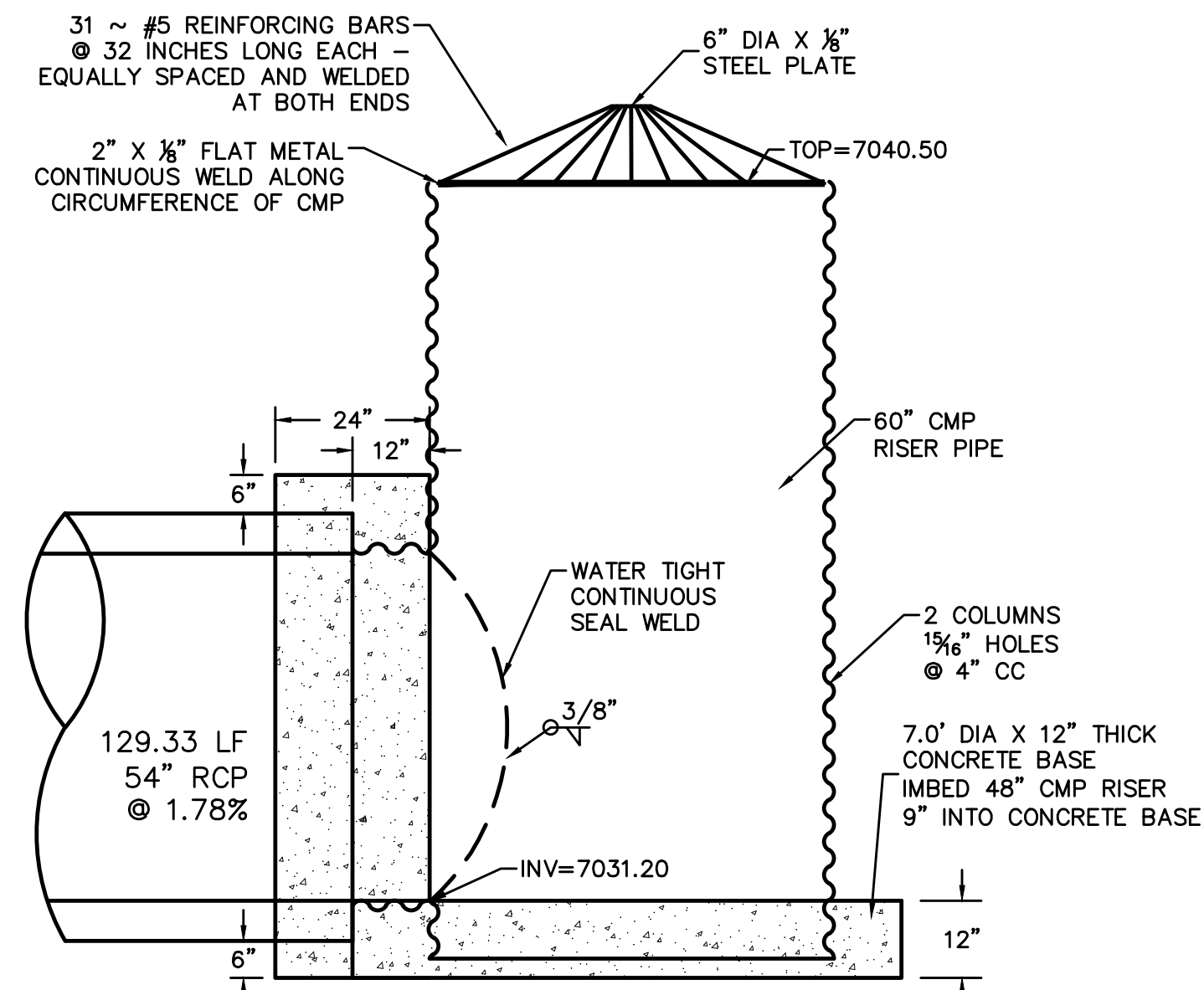
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 TEMPORARY SEDIMENTATION AND WATER QUALITY PIPE  
 CROSS SECTION  
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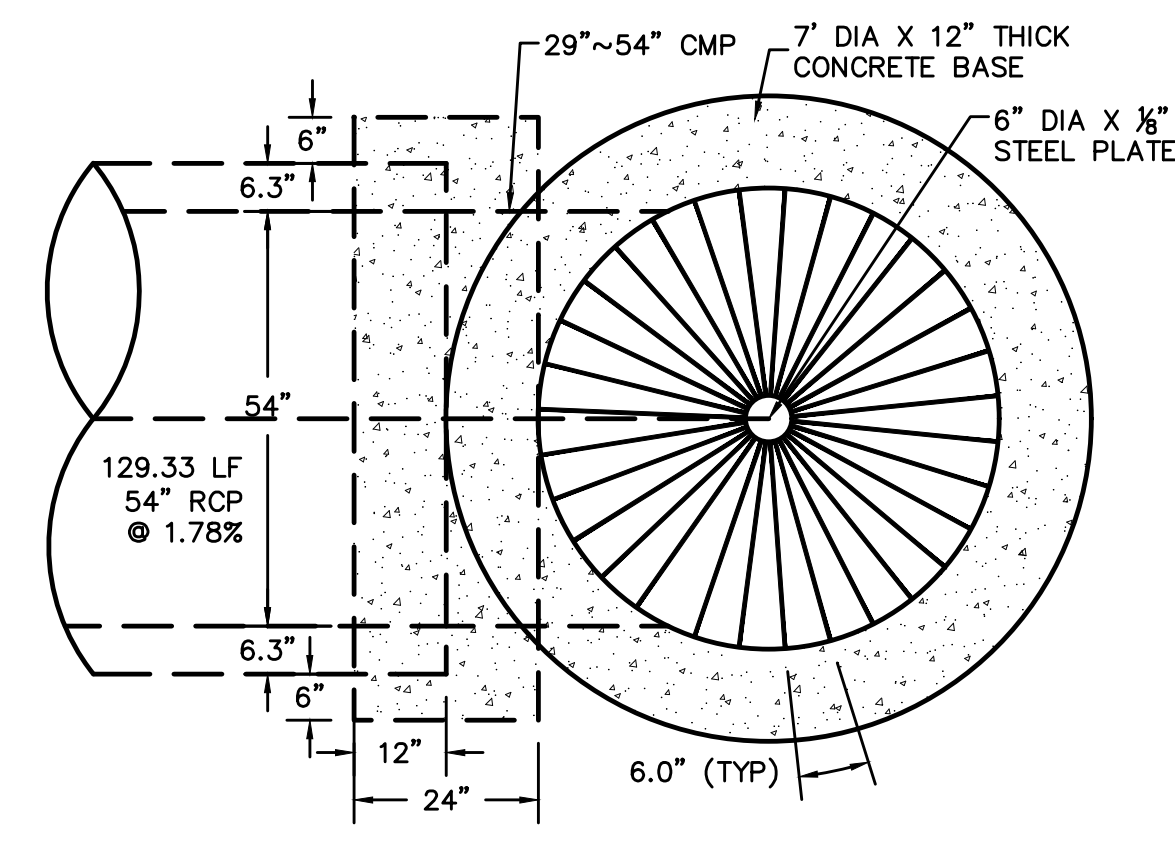
**TEMP. SED. BASIN 5 OUTLET**



**POND CHANNEL CROSS SECTION DETAIL**  
 NTS

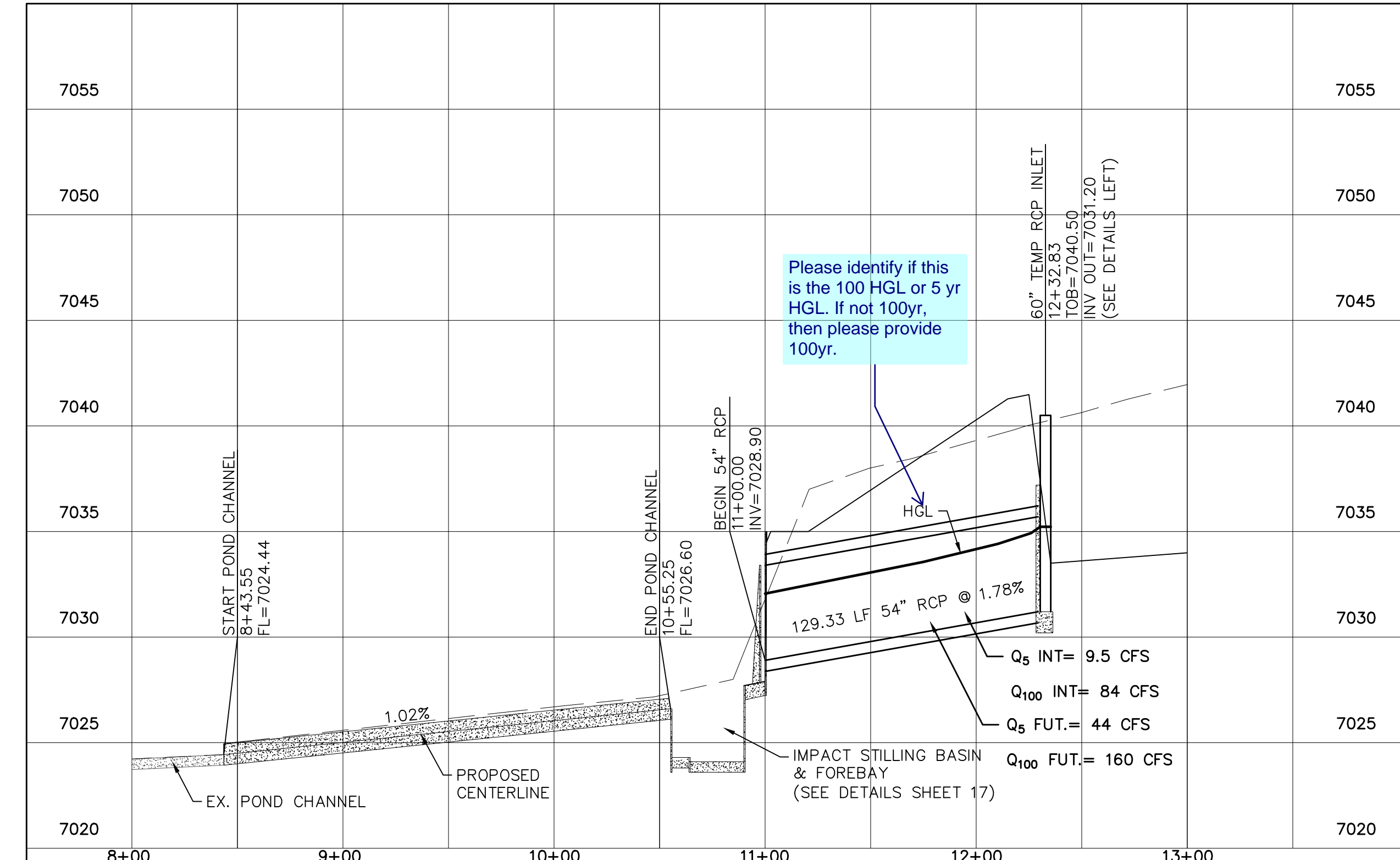


**CONTROL STRUCTURE SIDE VIEW**  
 NTS



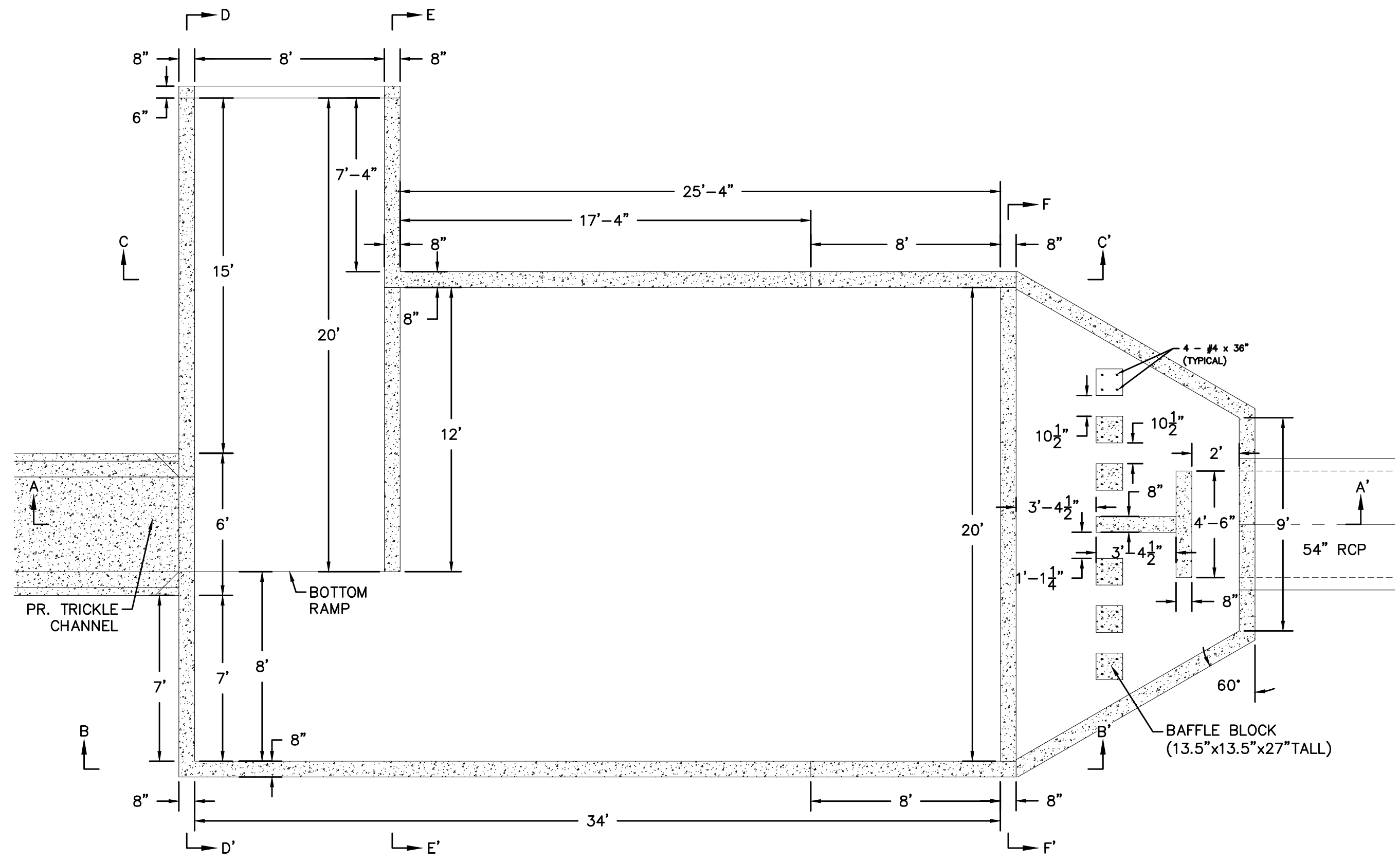
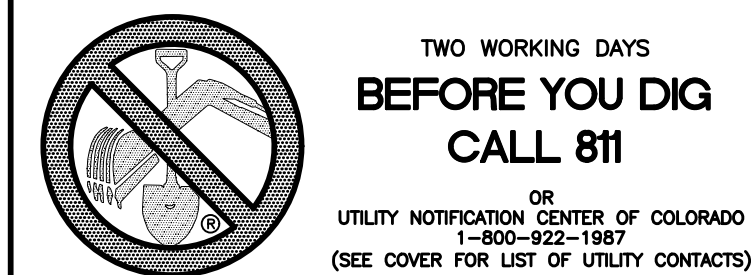
**CONTROL STRUCTURE TOP VIEW**  
 NTS

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

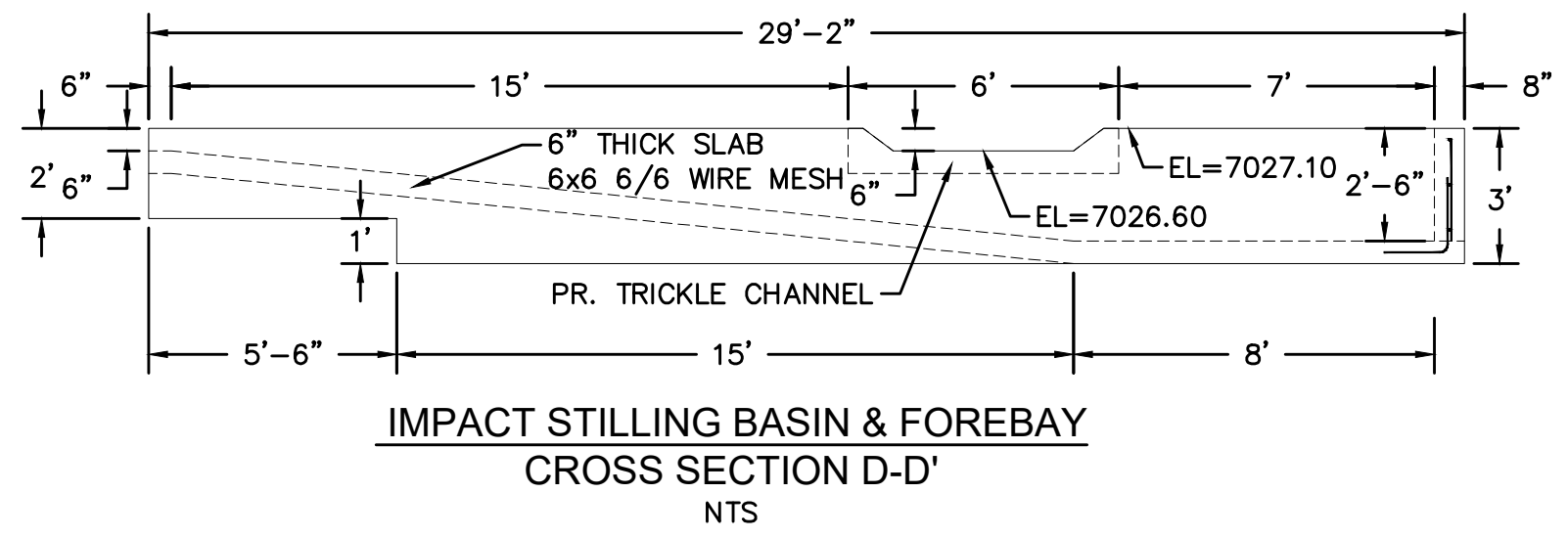


1	2	3	4	No.	Revisions
					Date
					Appr.
					Date
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457					
<b>MERIDIAN RANCH</b>					
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN DETAIL SHEET					
Scale	AS SHOWN	Drawn by	LOG	Checked by	TAK
				Date	MARCH 2022
				16	of 23

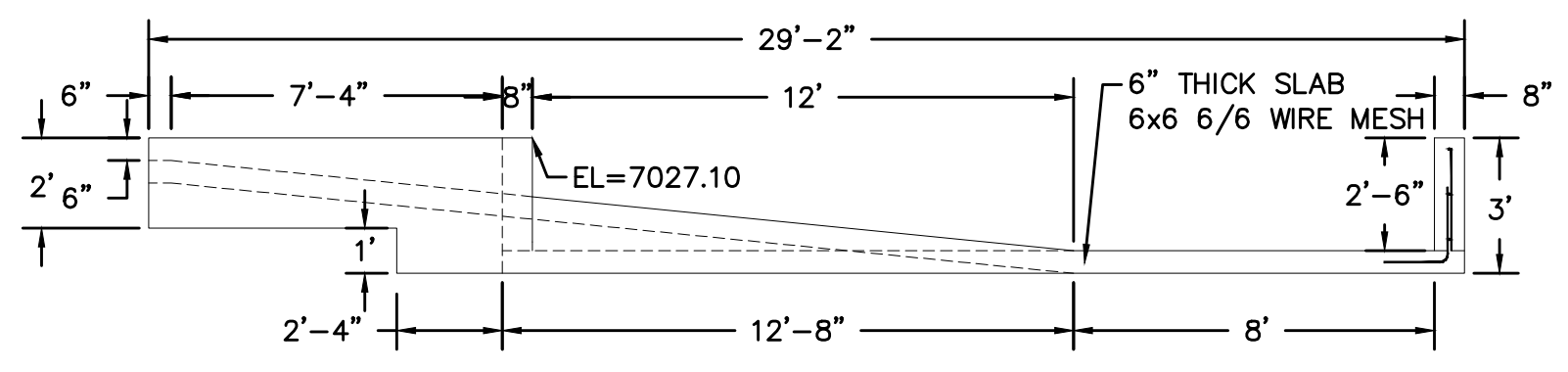




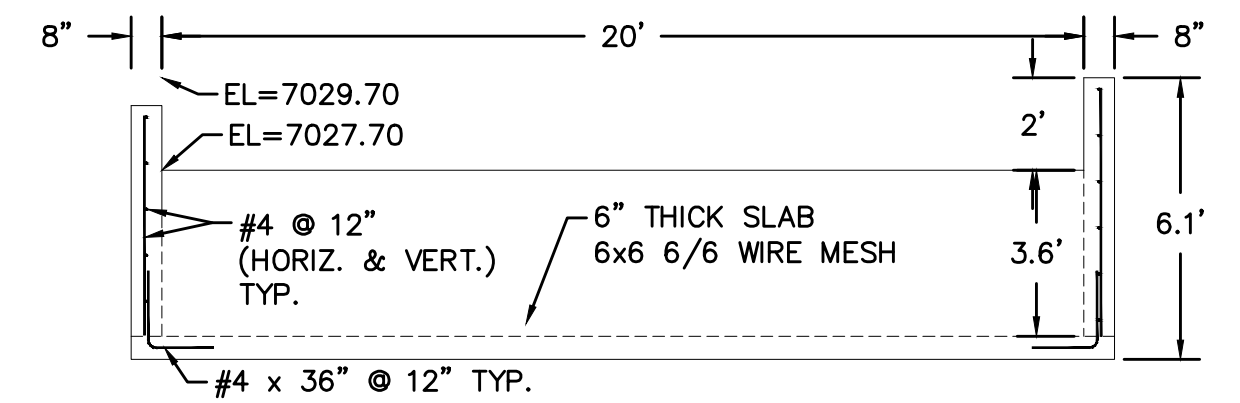
**IMPACT STILLING BASIN & FOREBAY**  
PLAN VIEW  
NTS



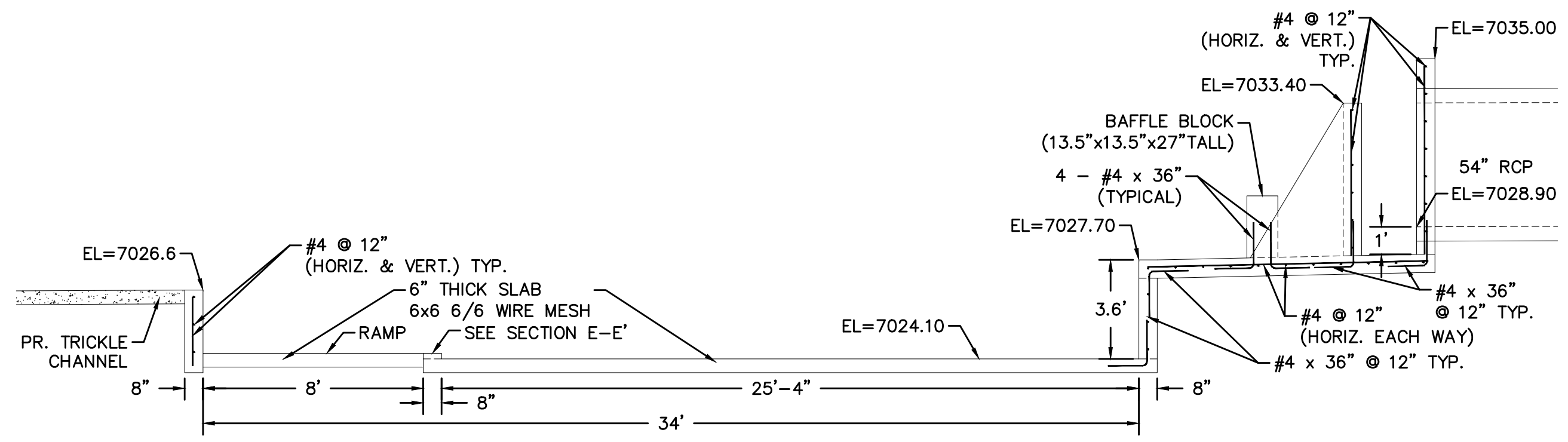
**IMPACT STILLING BASIN & FOREBAY**  
CROSS SECTION D-D'  
NTS



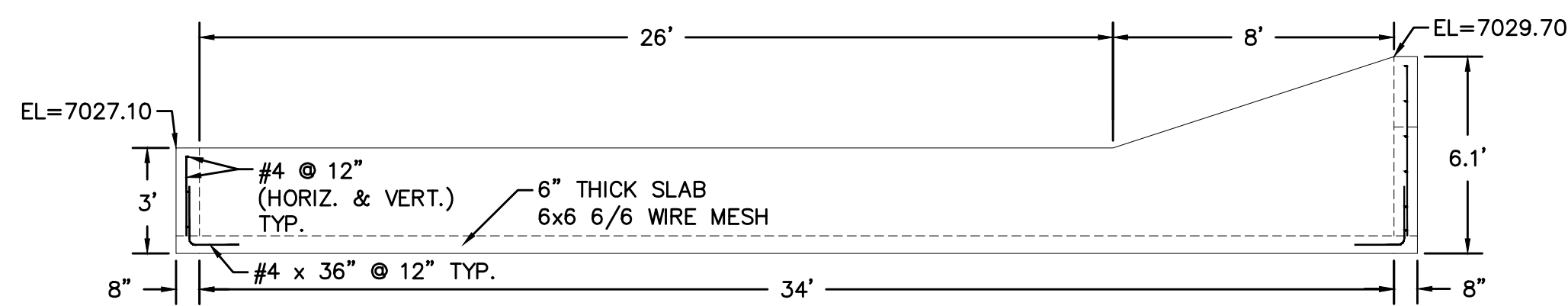
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CROSS SECTION E-E'  
NTS



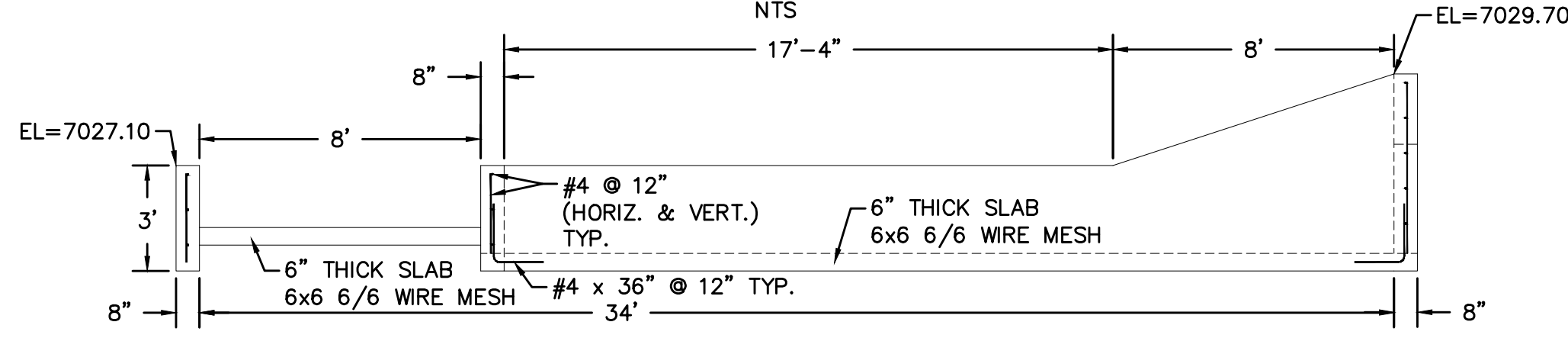
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CROSS SECTION F-F'  
NTS



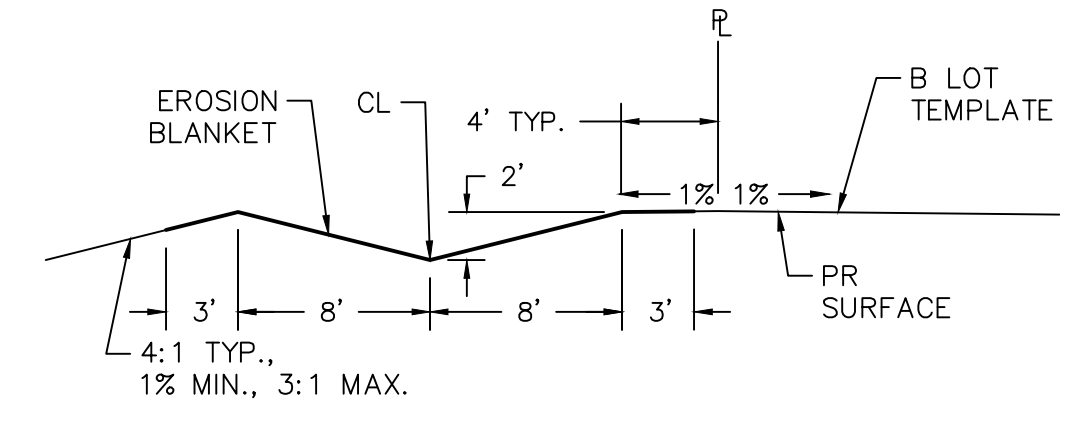
**IMPACT STILLING BASIN & FOREBAY**  
CROSS SECTION A-A'  
NTS



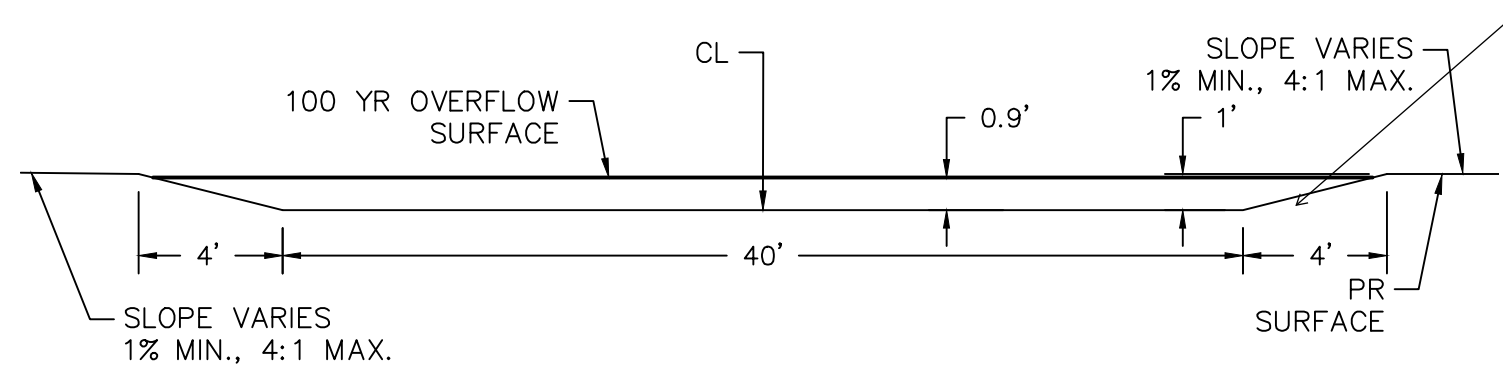
**IMPACT STILLING BASIN & FOREBAY**  
CROSS SECTION B-B'  
NTS



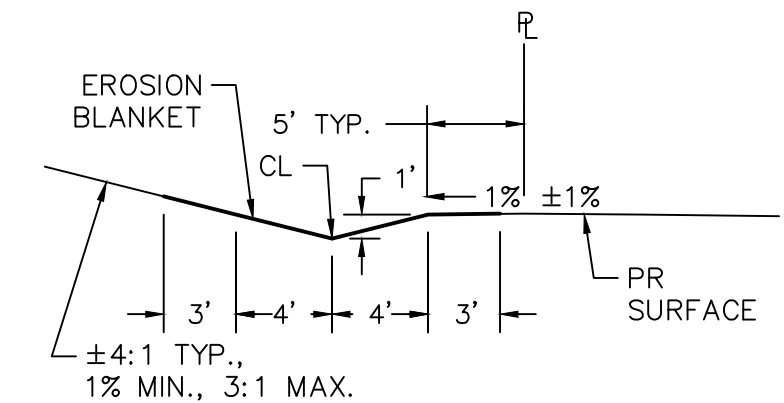
**IMPACT STILLING BASIN & FOREBAY**  
CROSS SECTION C-C'  
NTS



**DETAIL A-A'**  
EROSION CONTROL BLANKET  
CROSS SECTION  
NTS

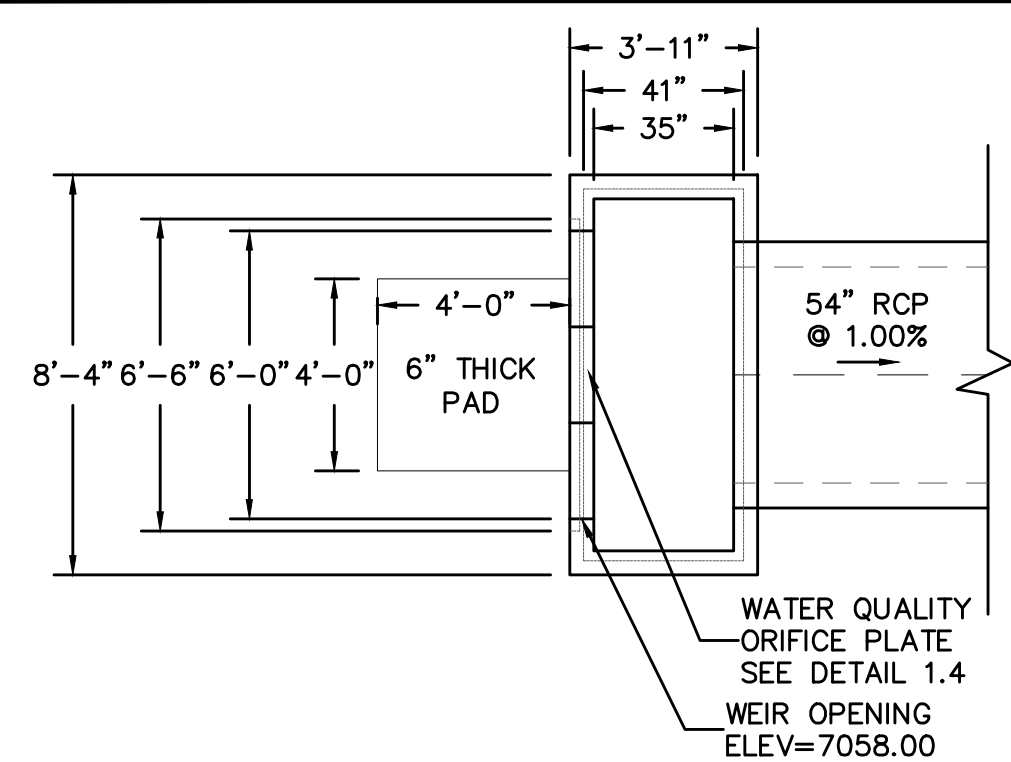


**DETAIL B-B'**  
EMERGENCY OVERFLOW  
CROSS SECTION  
NTS

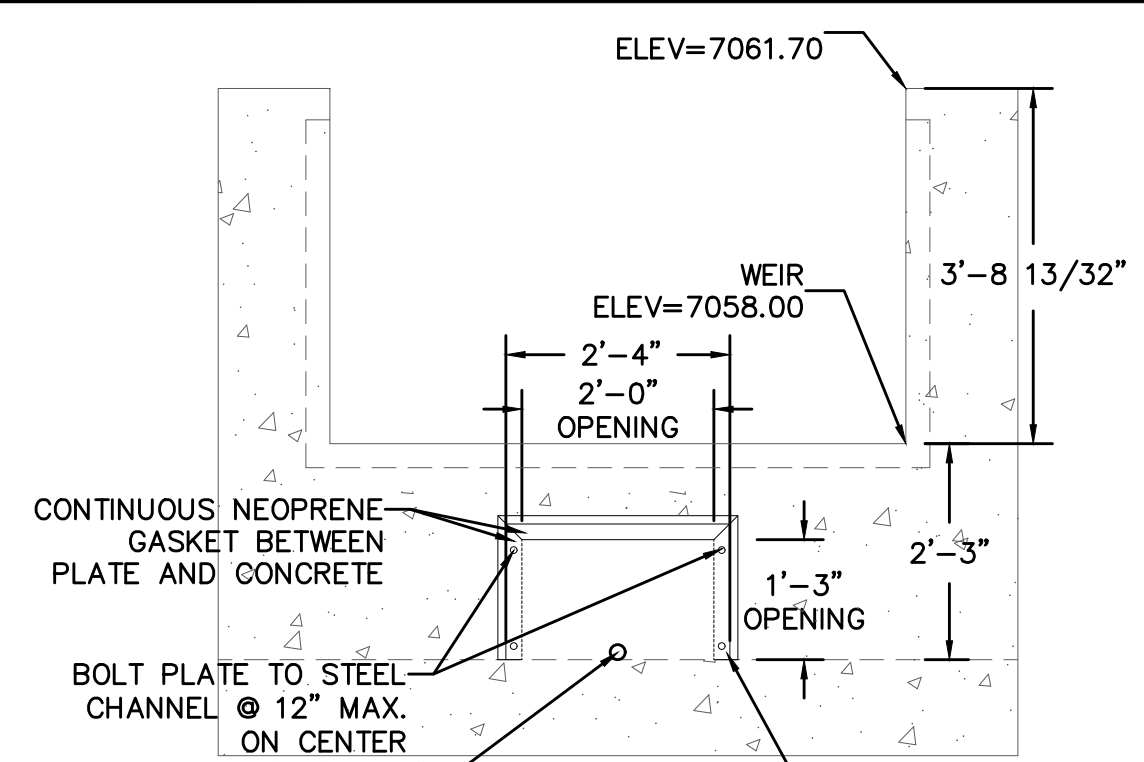


**DETAIL C-C'**  
EROSION CONTROL BLANKET  
CROSS SECTION  
NTS

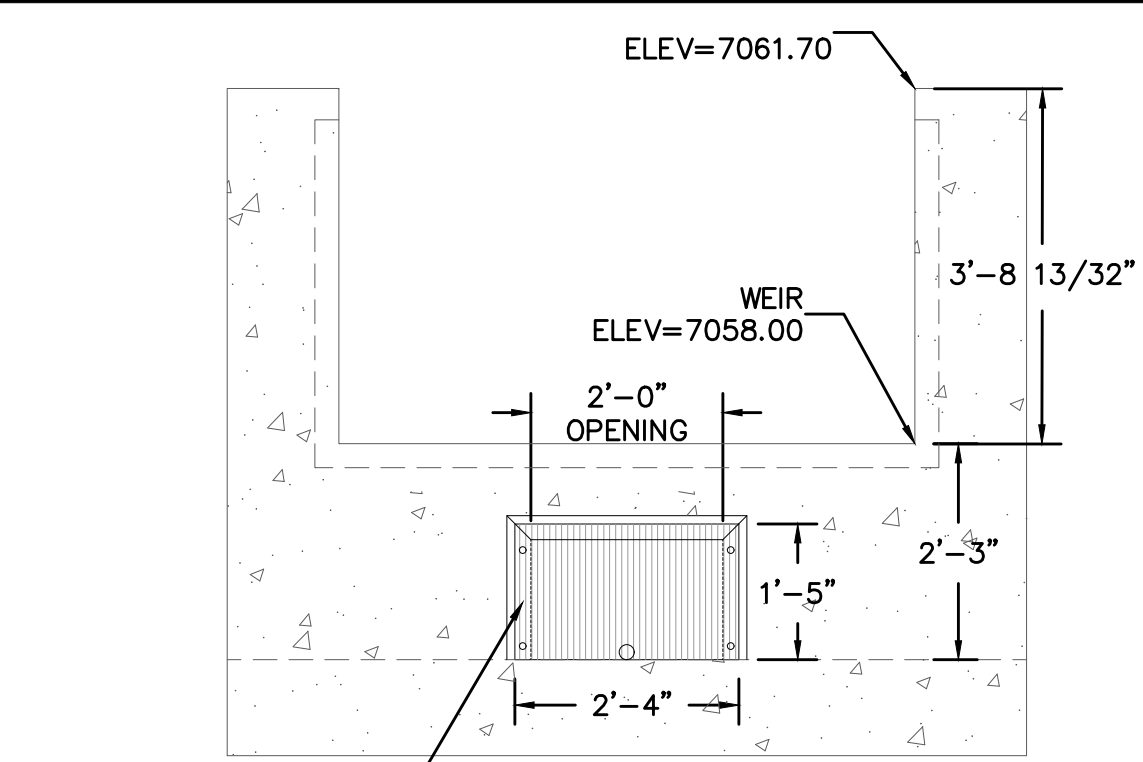
Date		Date		Date	
Appr.		Invt.		Date	
Revisions		No.		No.	
1		2		3	
4		5		6	
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457					
<b>MERIDIAN RANCH</b>					
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Drawn by	LOG	Checked by	TAK	Date	MARCH 2022
Scale	AS SHOWN	17	of 23		



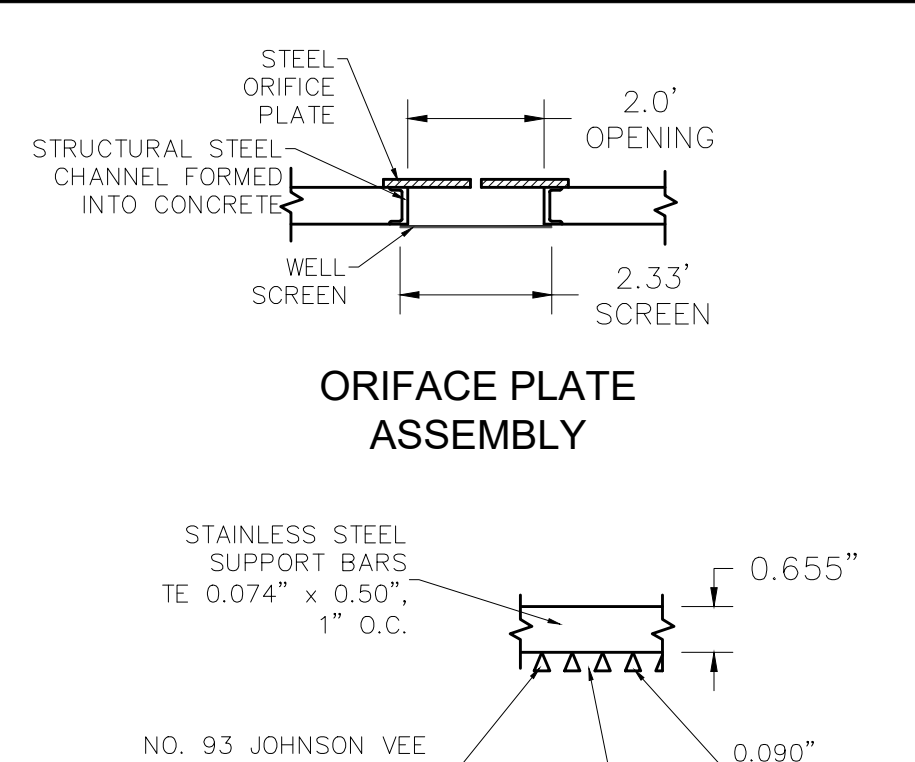
**DETAIL 1.1**  
OUTLET STRUCTURE  
PLAN VIEW  
NTS



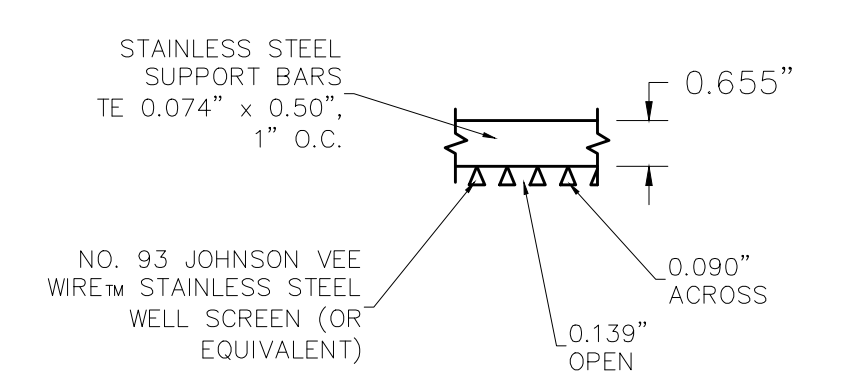
**INSIDE FACE**  
ORIFICE PLATE



**OUTSIDE FACE**  
WELL SCREEN



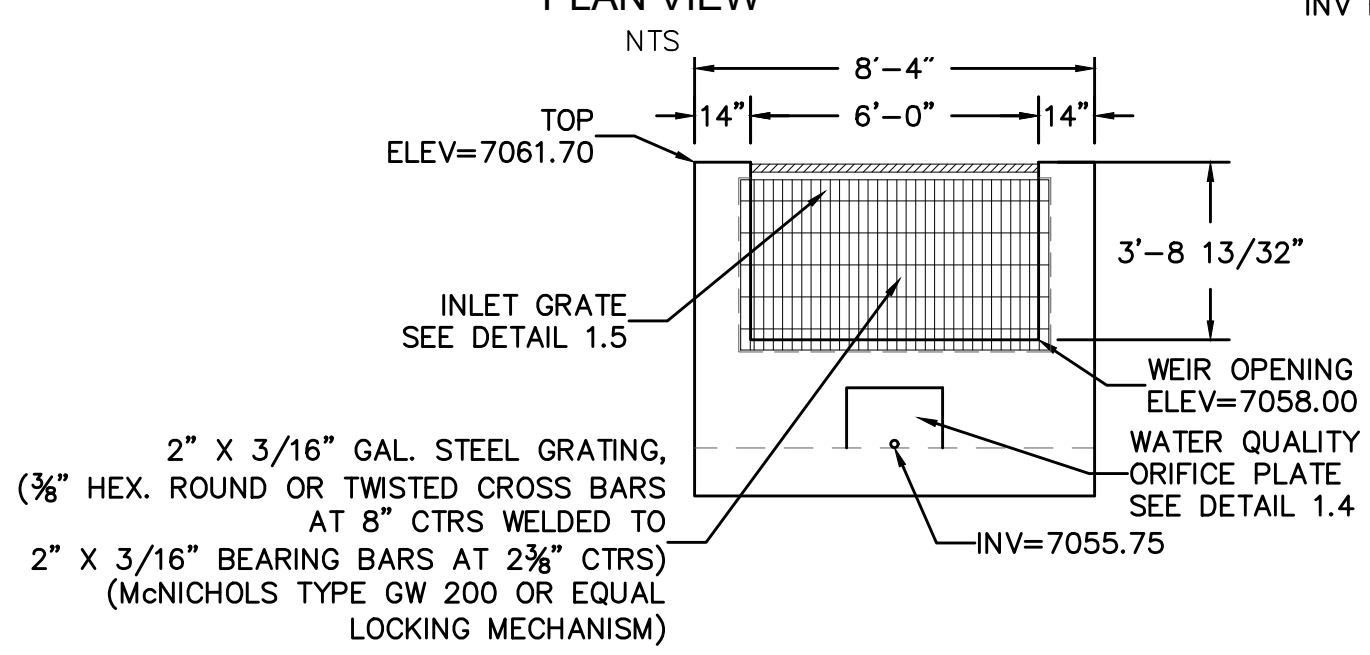
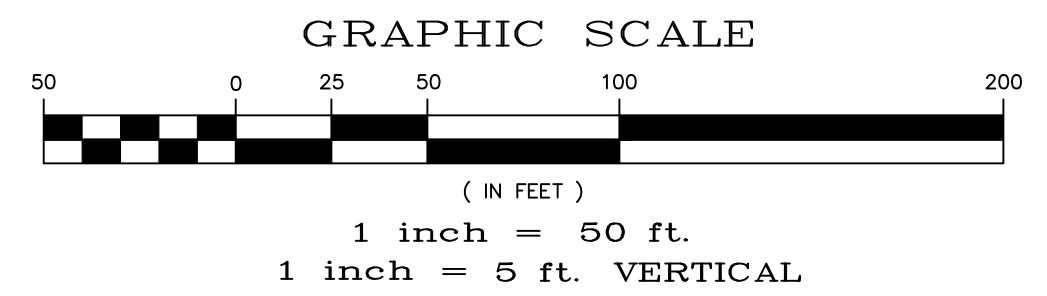
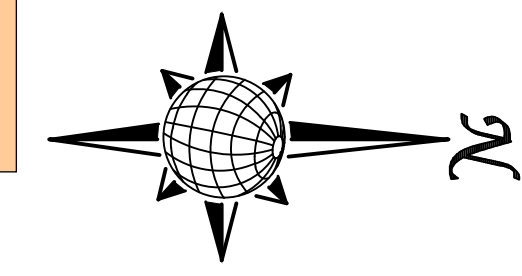
**ORIFACE PLATE**  
ASSEMBLY



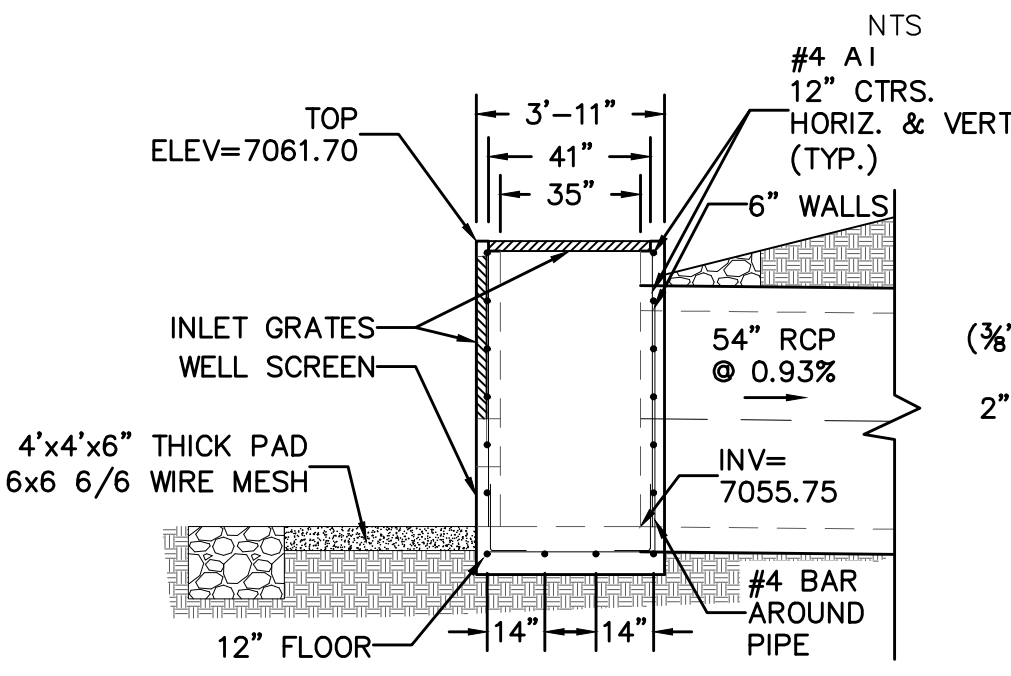
**WELL SCREEN**  
DETAIL

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

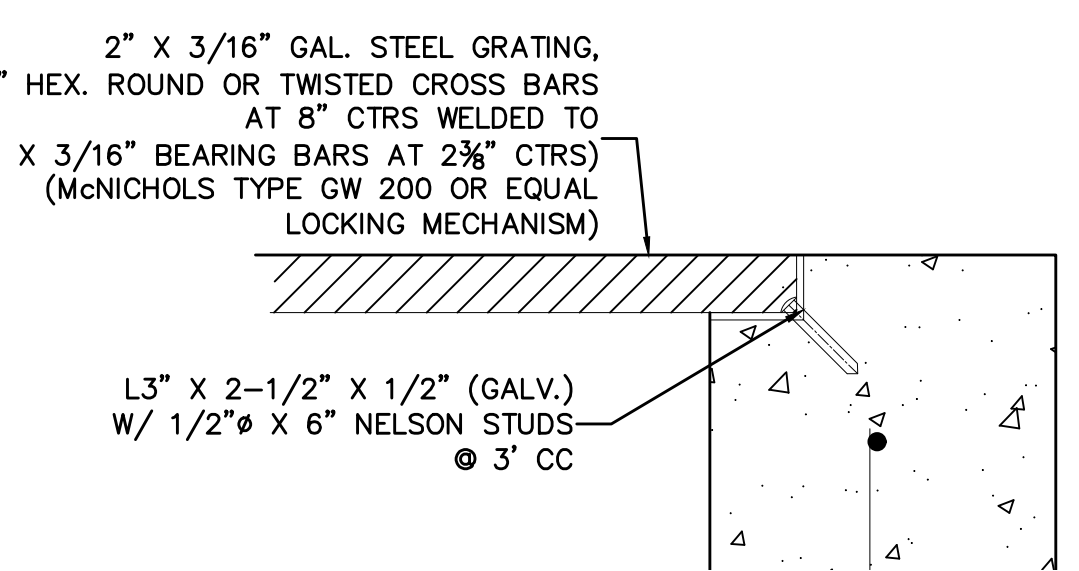
OR  
UTILITY NOTIFICATION CENTER OF COLORADO  
1-800-922-1987  
(SEE COVER FOR LIST OF UTILITY CONTACTS)



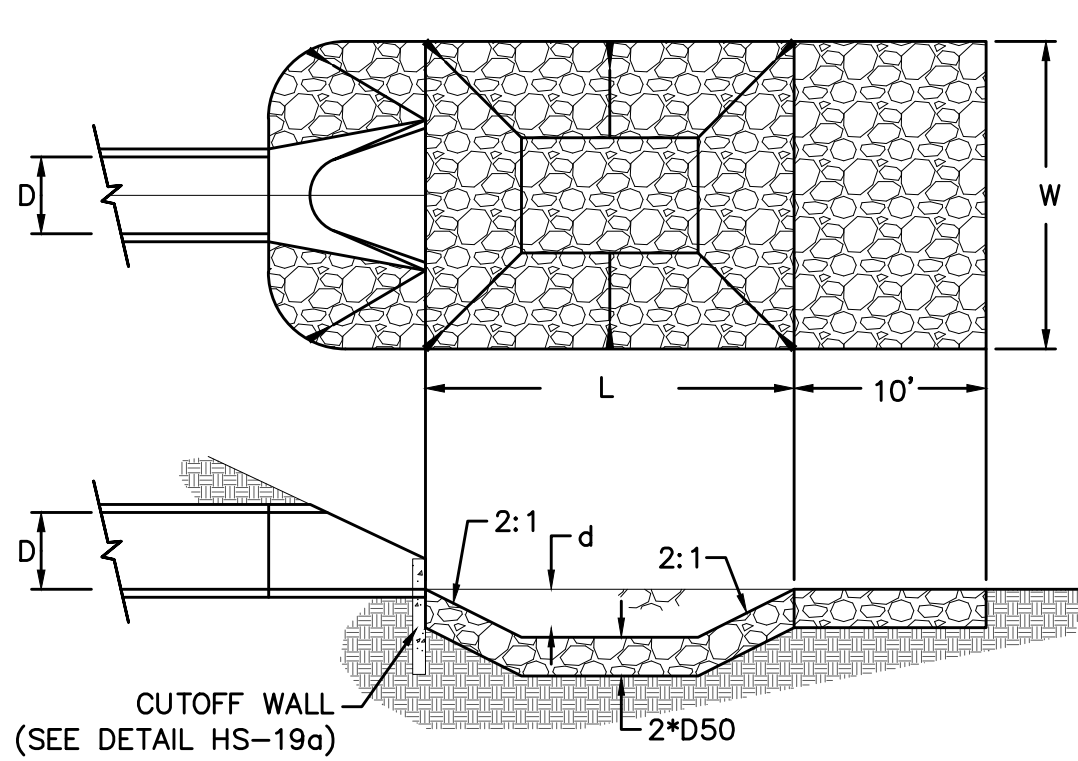
**DETAIL 1.2**  
OUTLET STRUCTURE  
FRONT VIEW  
NTS



**DETAIL 1.3**  
OUTLET STRUCTURE  
CROSS SECTION  
NTS



**DETAIL 1.5**  
GRATE  
NTS

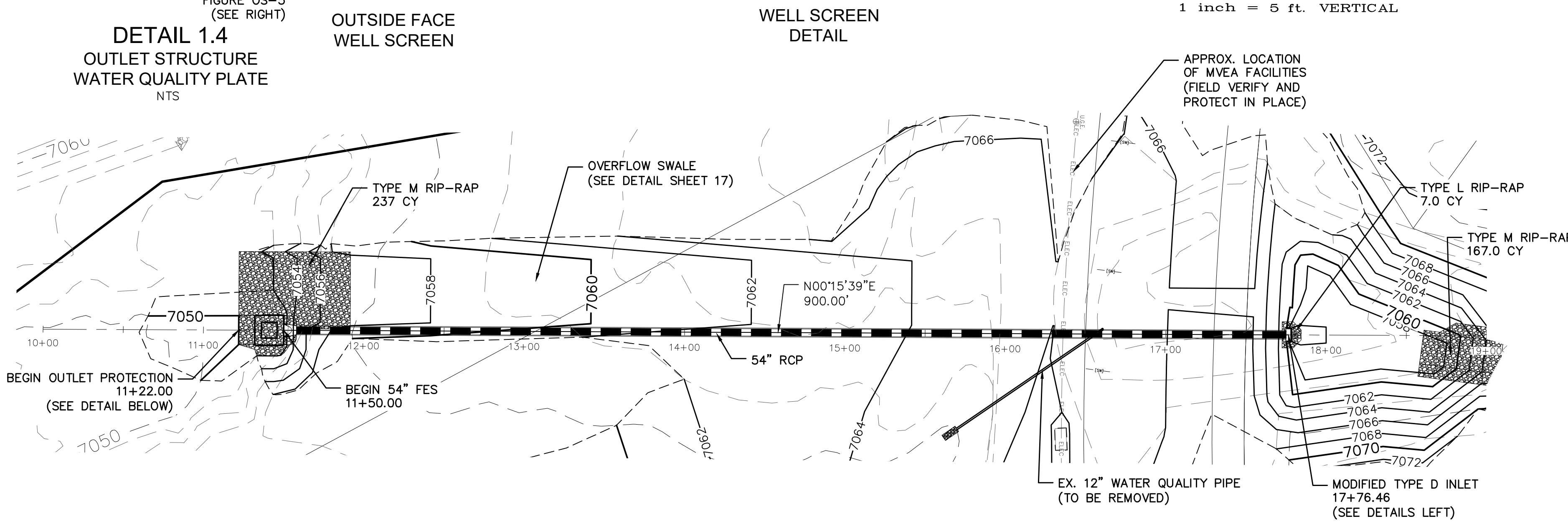


URBAN DRAINAGE AND FLOOD CONTROL DISTRICT  
Figure HS-19a. Culvert Cutoff Wall

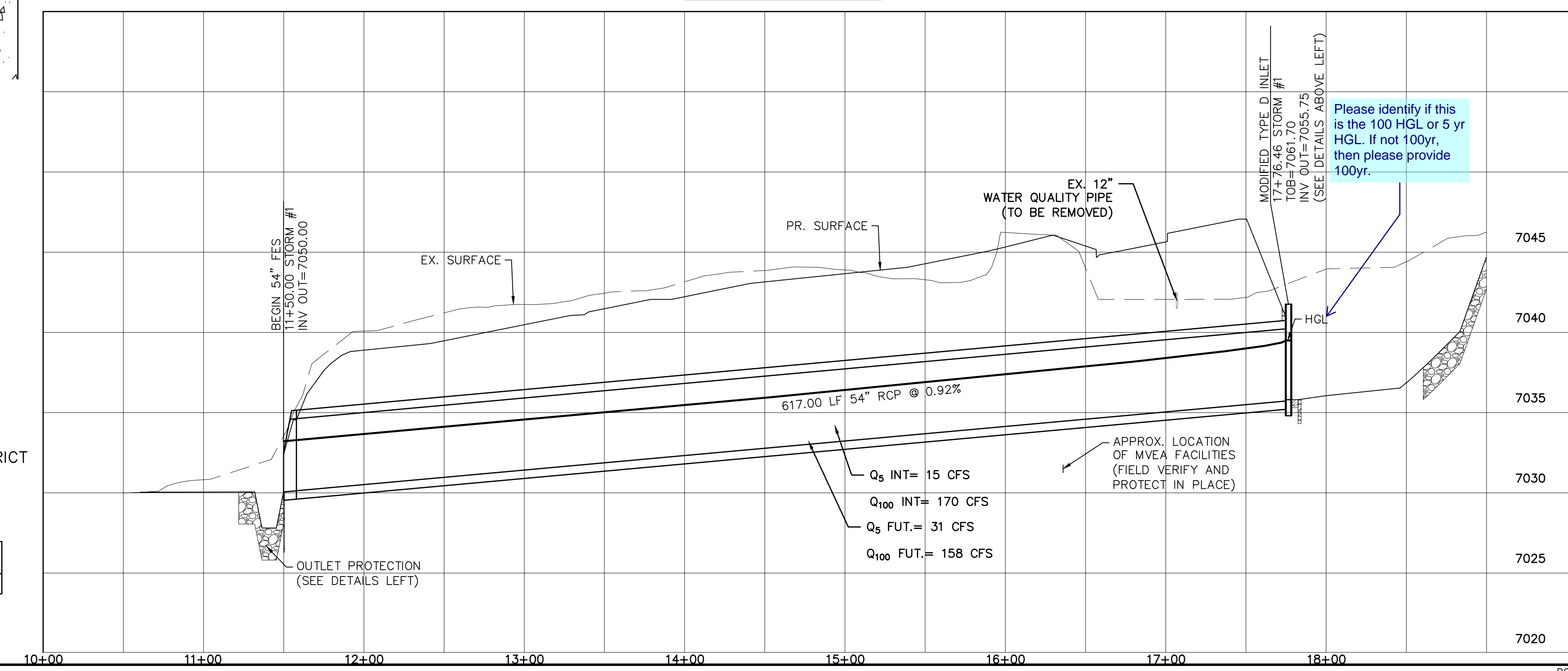
PIPE OUTLET	L	W	d	TYPE	D <sub>90</sub>	CY	NOTES
54"	18.0	18.0	2.0	M	1.00'	43.0	SEE BELOW

**OS-1**  
OUTLET PROTECTION DETAIL  
NTS

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



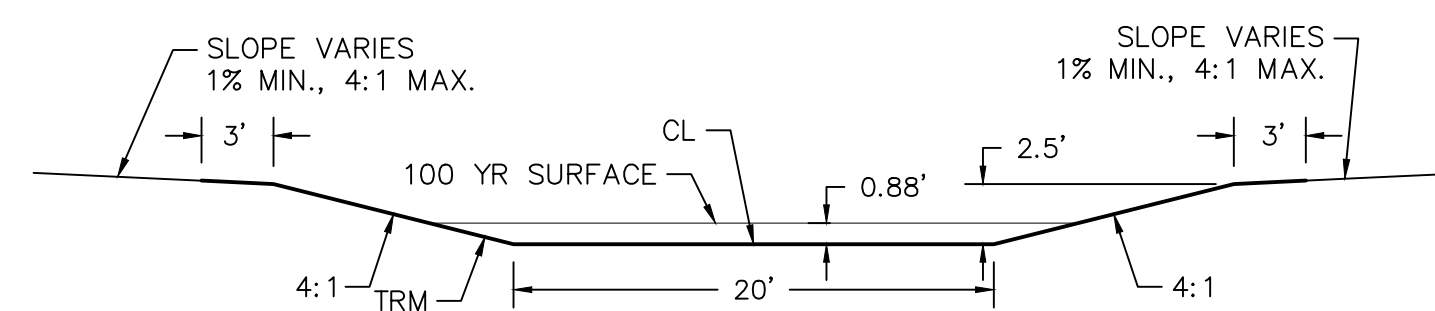
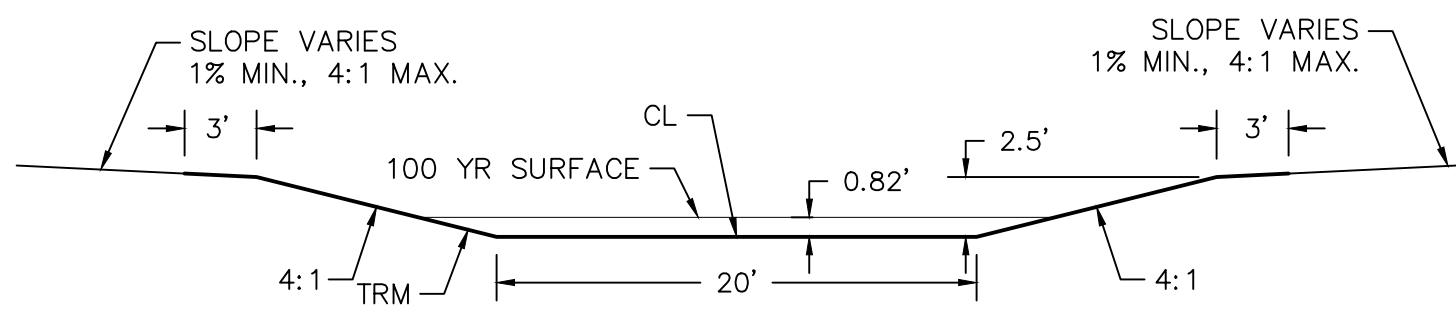
**54\"/>**



- Q<sub>5</sub> INT= 15 CFS
- Q<sub>100</sub> INT= 170 CFS
- Q<sub>5</sub> FUT.= 31 CFS
- Q<sub>100</sub> FUT.= 158 CFS

Please identify if this is the 100 HGL or 5 yr HGL. If not 100yr, then please provide 100yr.

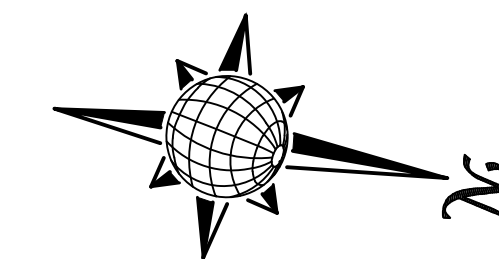
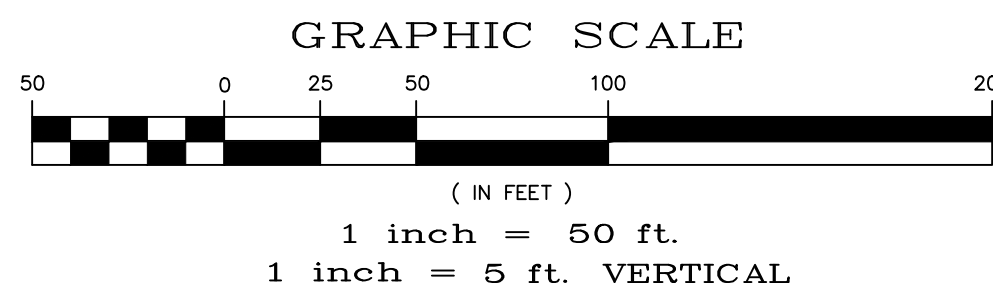
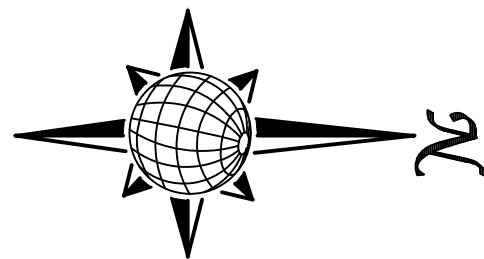
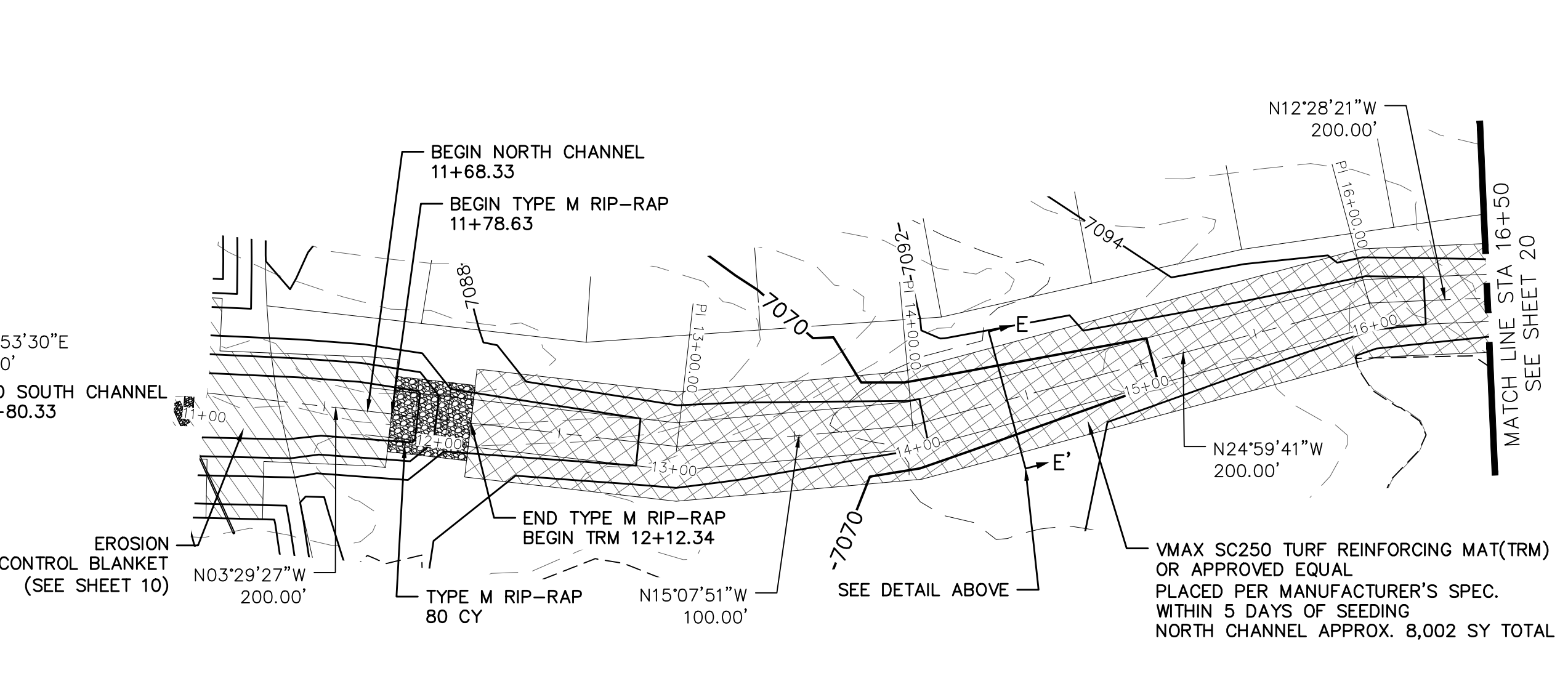
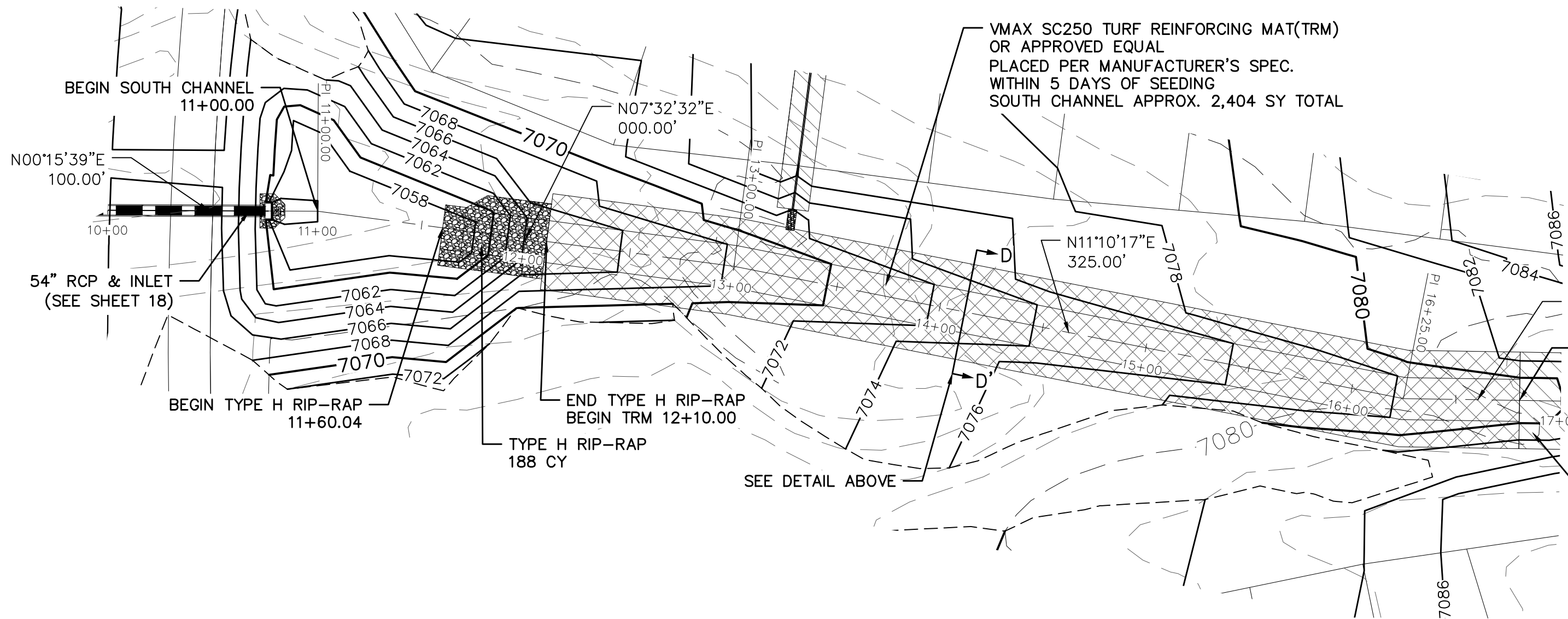
Date	Appr.	Date	Revis.	No.
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				
<b>MERIDIAN RANCH</b>				
PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN DETAIL SHEET				
Drawn by	LOG	Checked by	TAK	Date
AS SHOWN				MARCH 2022
Scale	18	of	23	



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

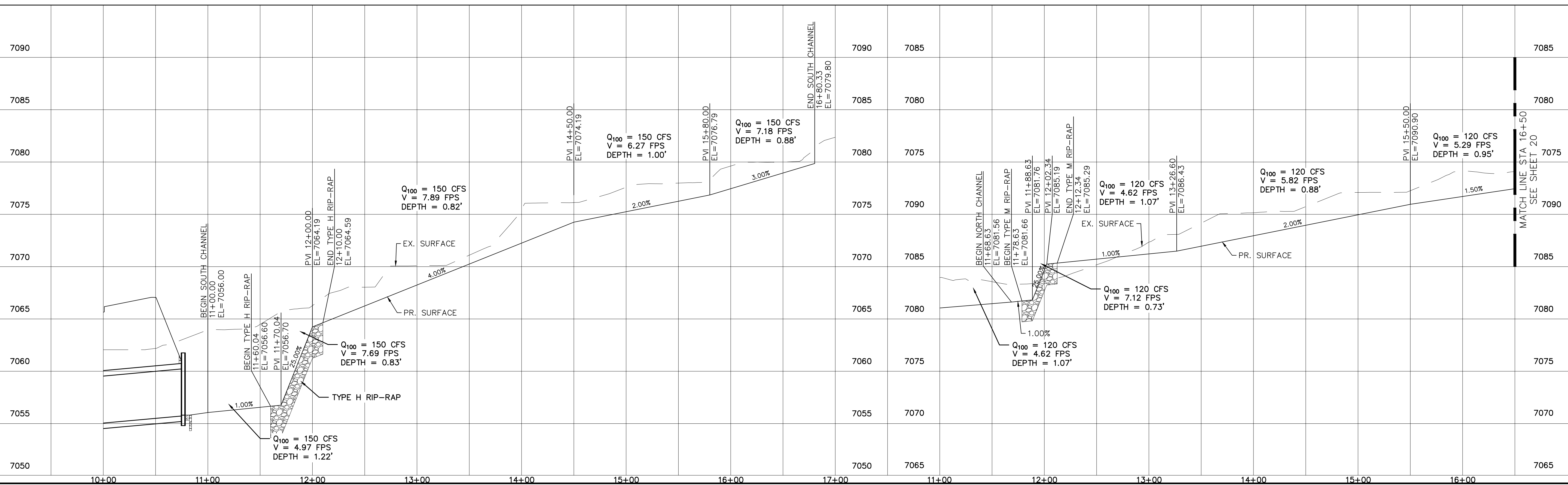
**DETAIL D-D'**  
TURF REINFORCEMENT MAT  
CROSS SECTION  
NTS

**DETAIL E-E'**  
TURF REINFORCEMENT MAT  
CROSS SECTION  
NTS



OPEN SPACE SOUTH CHANNEL

OPEN SPACE NORTH CHANNEL



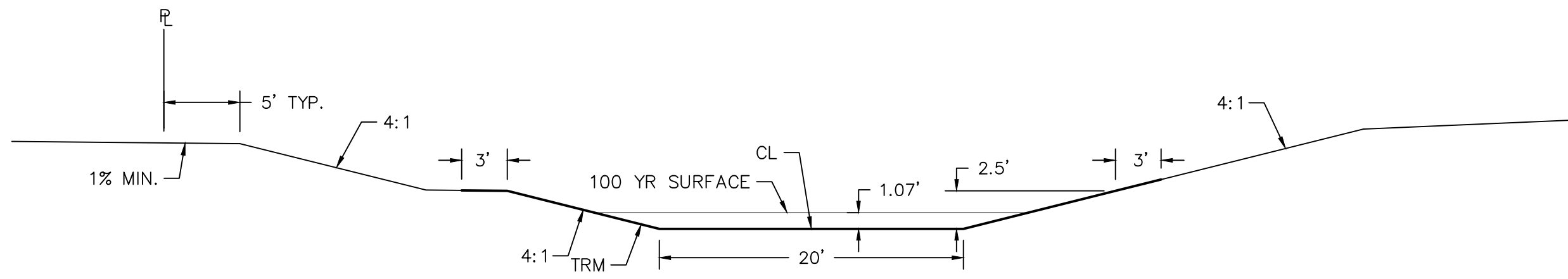
No.	Revisions	Date	Appr.
1			
2			
3			
4			

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

MERIDIAN RANCH

PREDEVELOPMENT GRADING  
ROLLING HILLS RANCH NORTH  
ROUGH GRADING AND EROSION  
CONTROL PLAN  
DETAIL SHEET

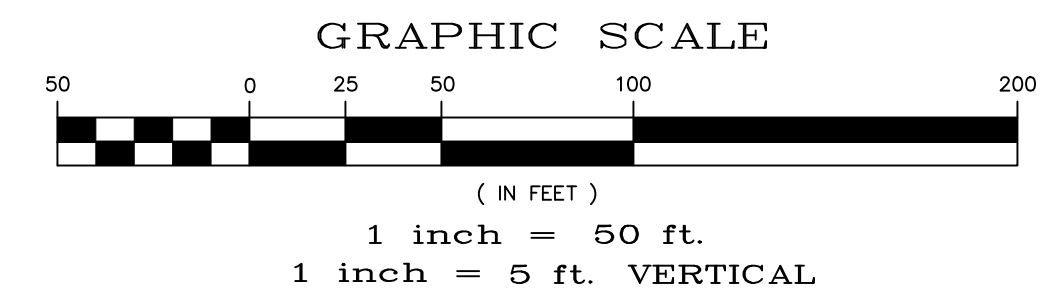
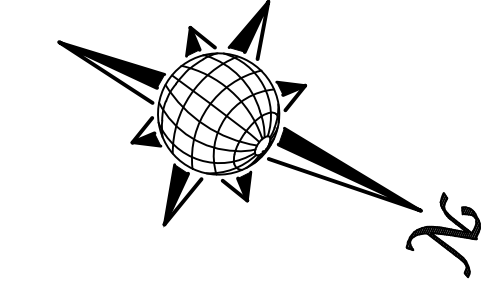
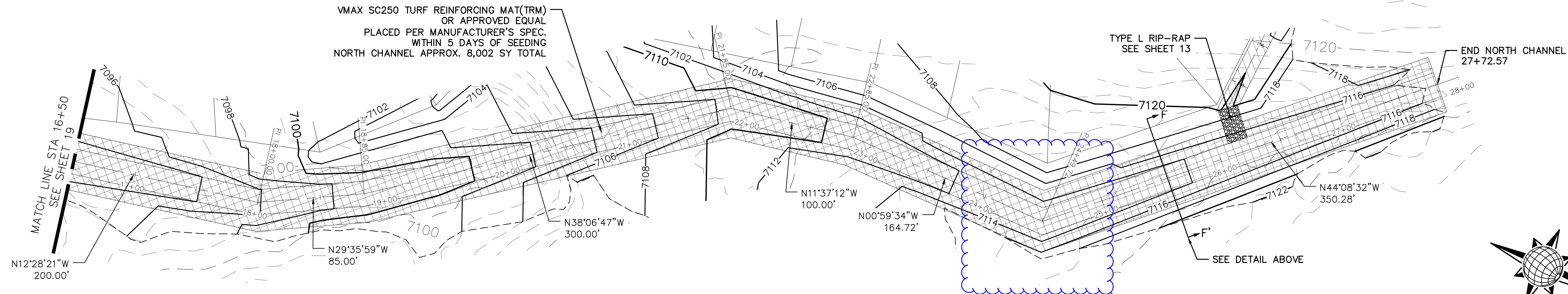
Scale AS SHOWN	Drawn by LOG	19 of 23	Date MARCH 2022
	Checked by TAK		



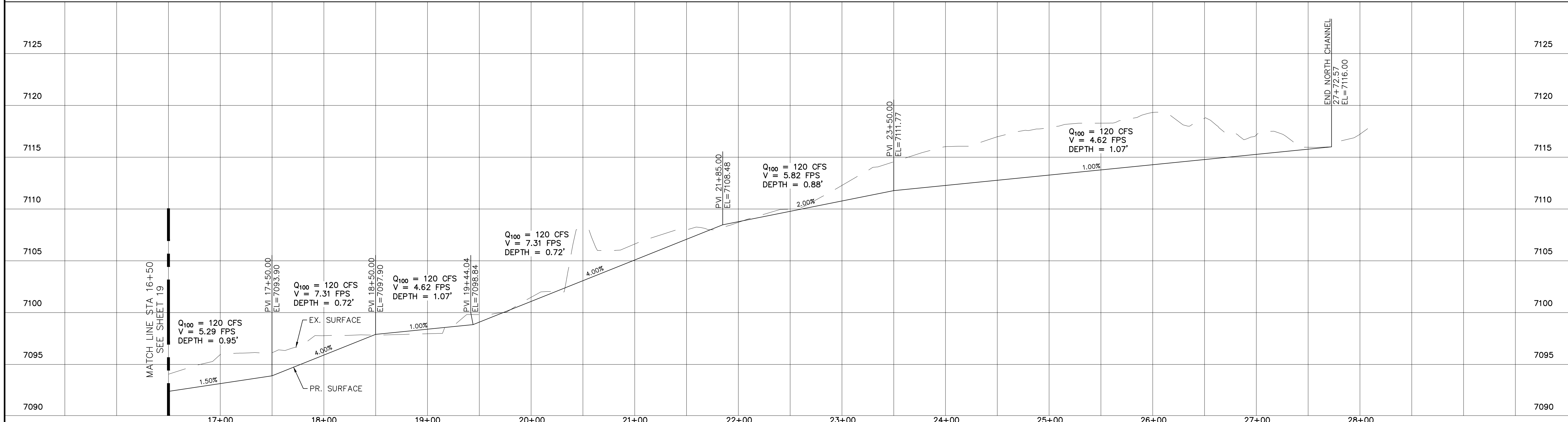
**DETAIL F-F'**  
EROSION CONTROL BLANKET  
CROSS SECTION  
NTS

**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)



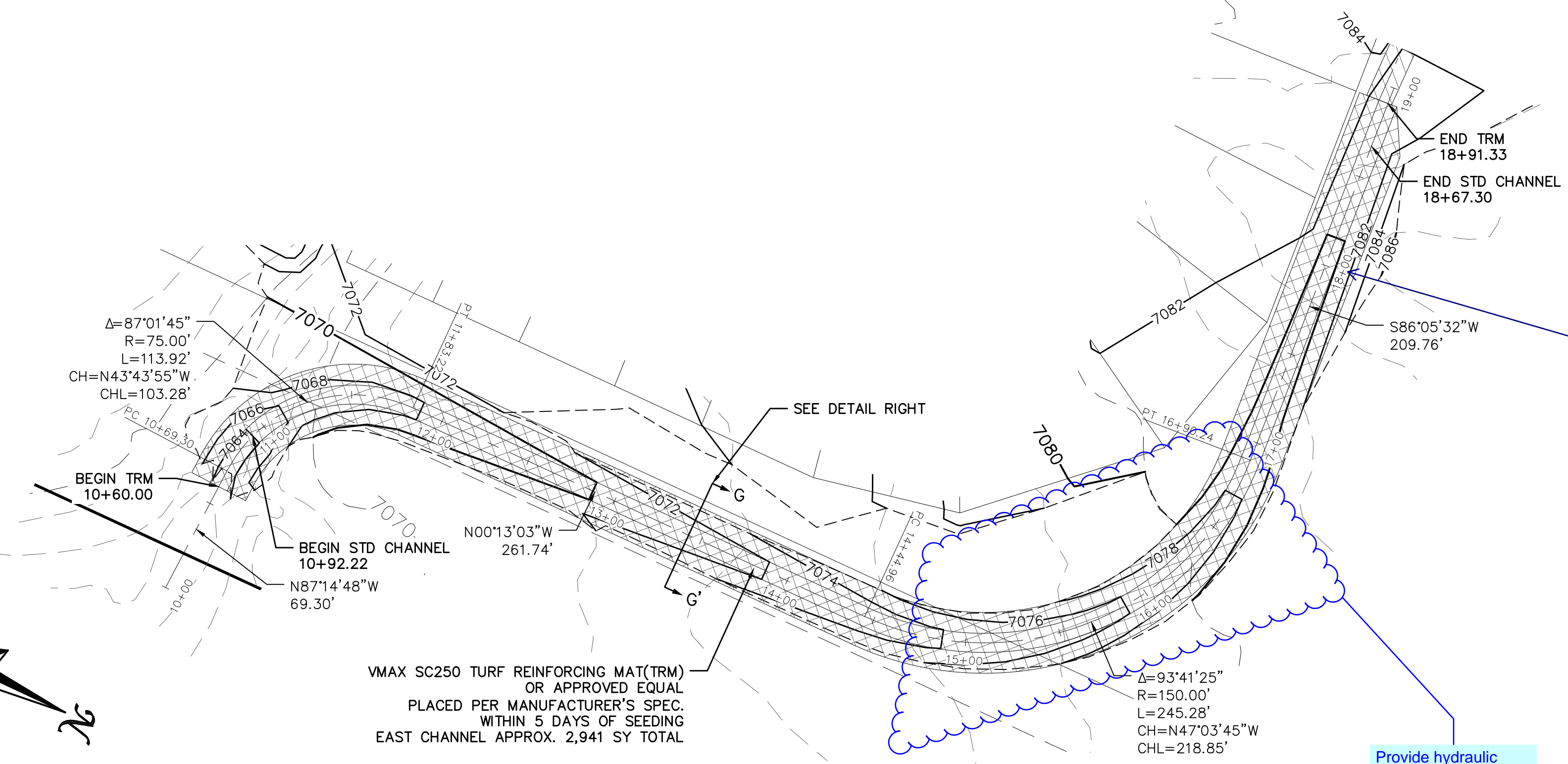
OPEN SPACE NORTH CHANNEL



Date		Appr.	
Date		Revis.	
No.	Revisions		
1			
2			
3			
4			
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457			
 <b>MERIDIAN RANCH</b>			
<b>PREDEVELOPMENT GRADING ROLLING HILLS RANCH NORTH ROUGH GRADING AND EROSION CONTROL PLAN DETAIL SHEET</b>			
Scale	Drawn by	Checked by	Date
AS SHOWN	LOG	TAK	MARCH 2022
20 of 23			

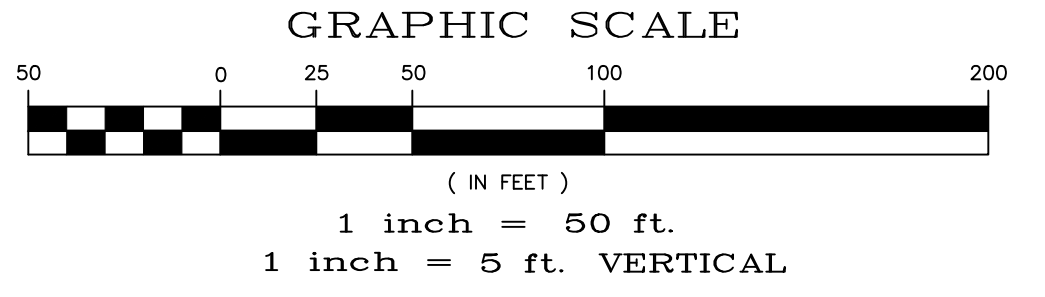
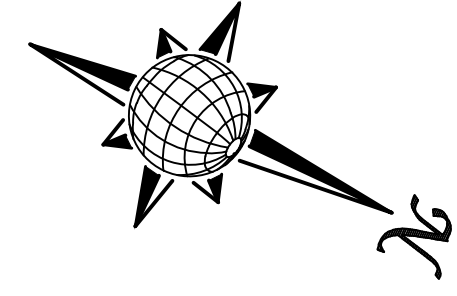
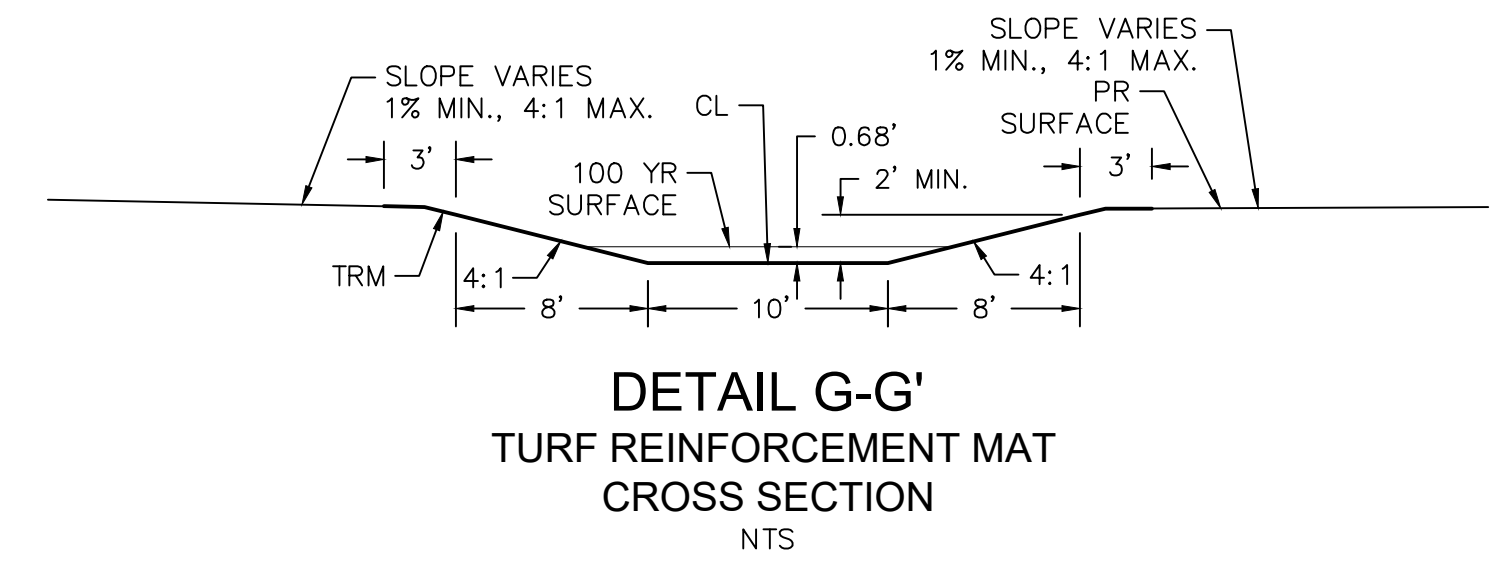
TWO WORKING DAYS  
**BEFORE YOU DIG**  
**CALL 811**  
 OR  
 UTILITY NOTIFICATION CENTER OF COLORADO  
 1-800-922-1987  
 (SEE COVER FOR LIST OF UTILITY CONTACTS)

Date	Appr.	Date	Revisions

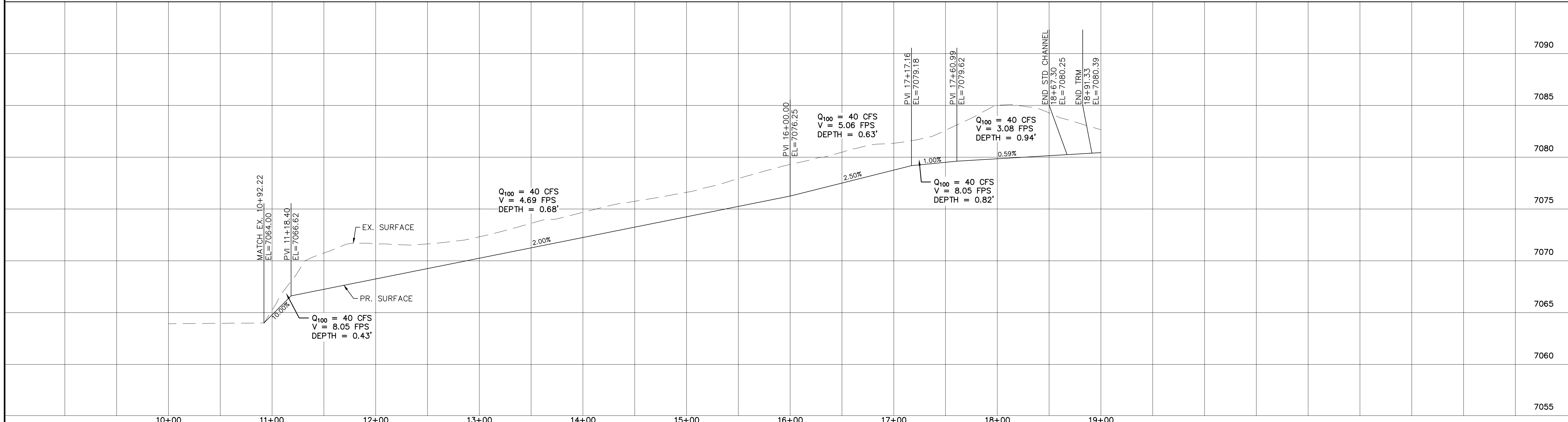


comments have been provided on the drainage report to provide analysis of this proposed channel

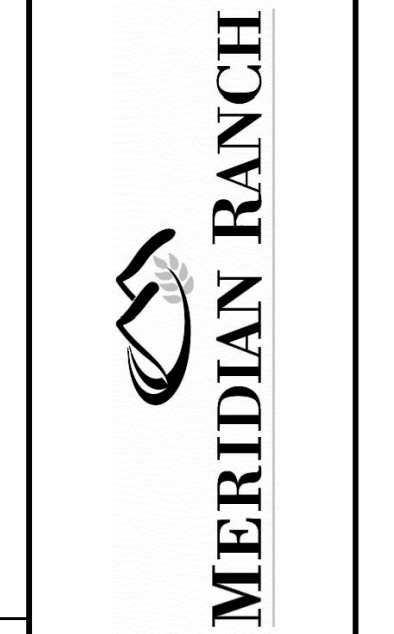
Provide hydraulic analysis at the bend. See ECM 3.3.3.E and DCM 10.5.6



OPEN SPACE EAST CHANNEL

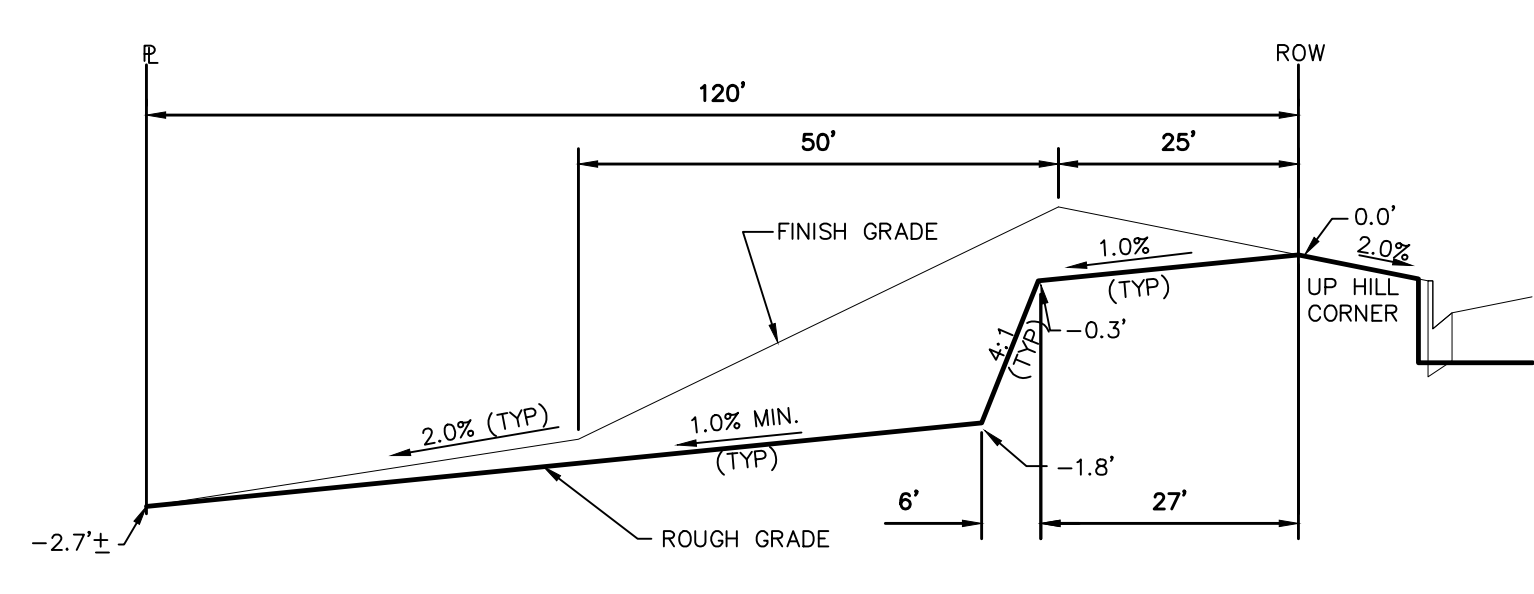


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 FAX: 719.495.2457

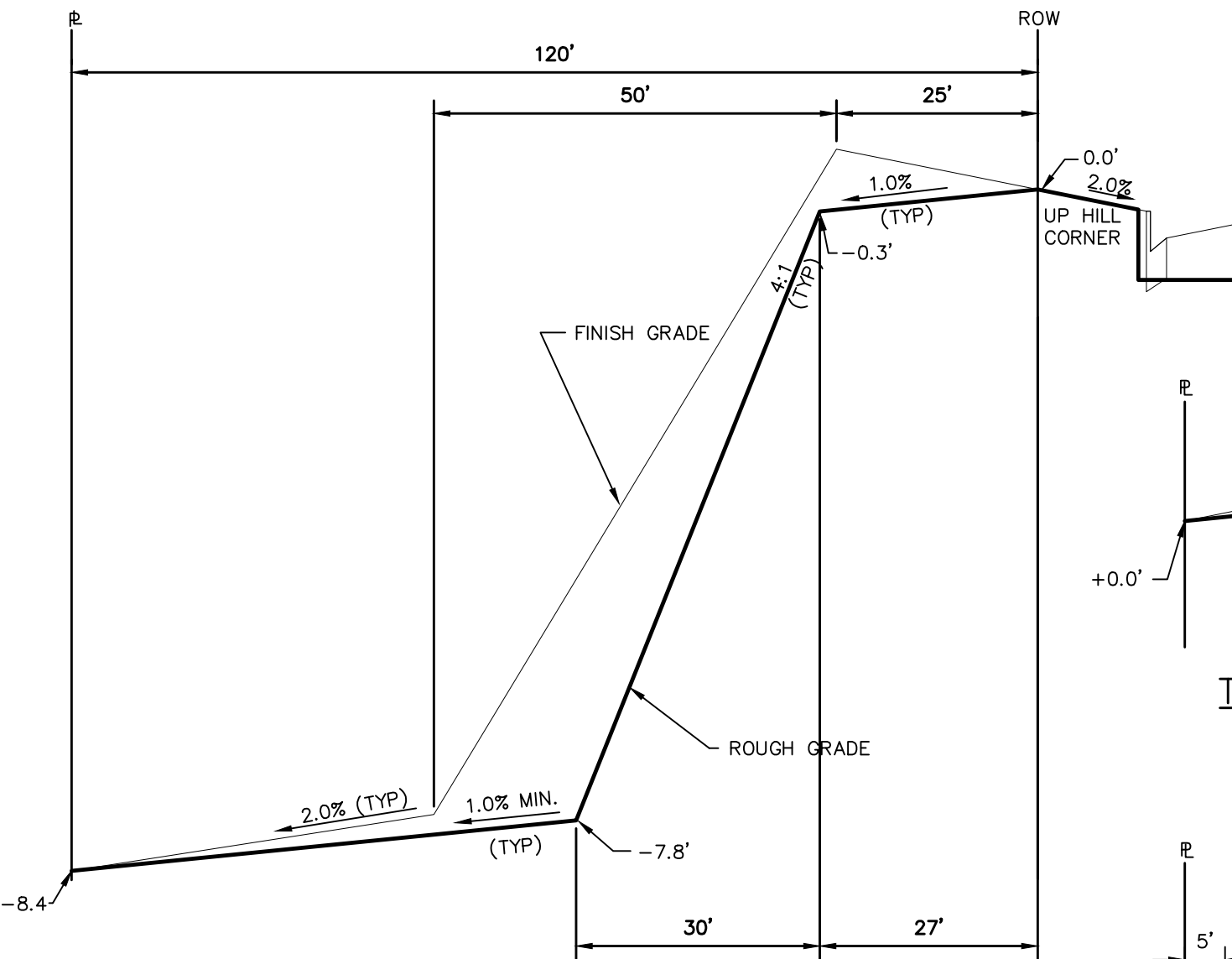


PREDEVELOPMENT GRADING  
 ROLLING HILLS RANCH NORTH  
 ROUGH GRADING AND EROSION  
 CONTROL PLAN  
 DETAIL SHEET

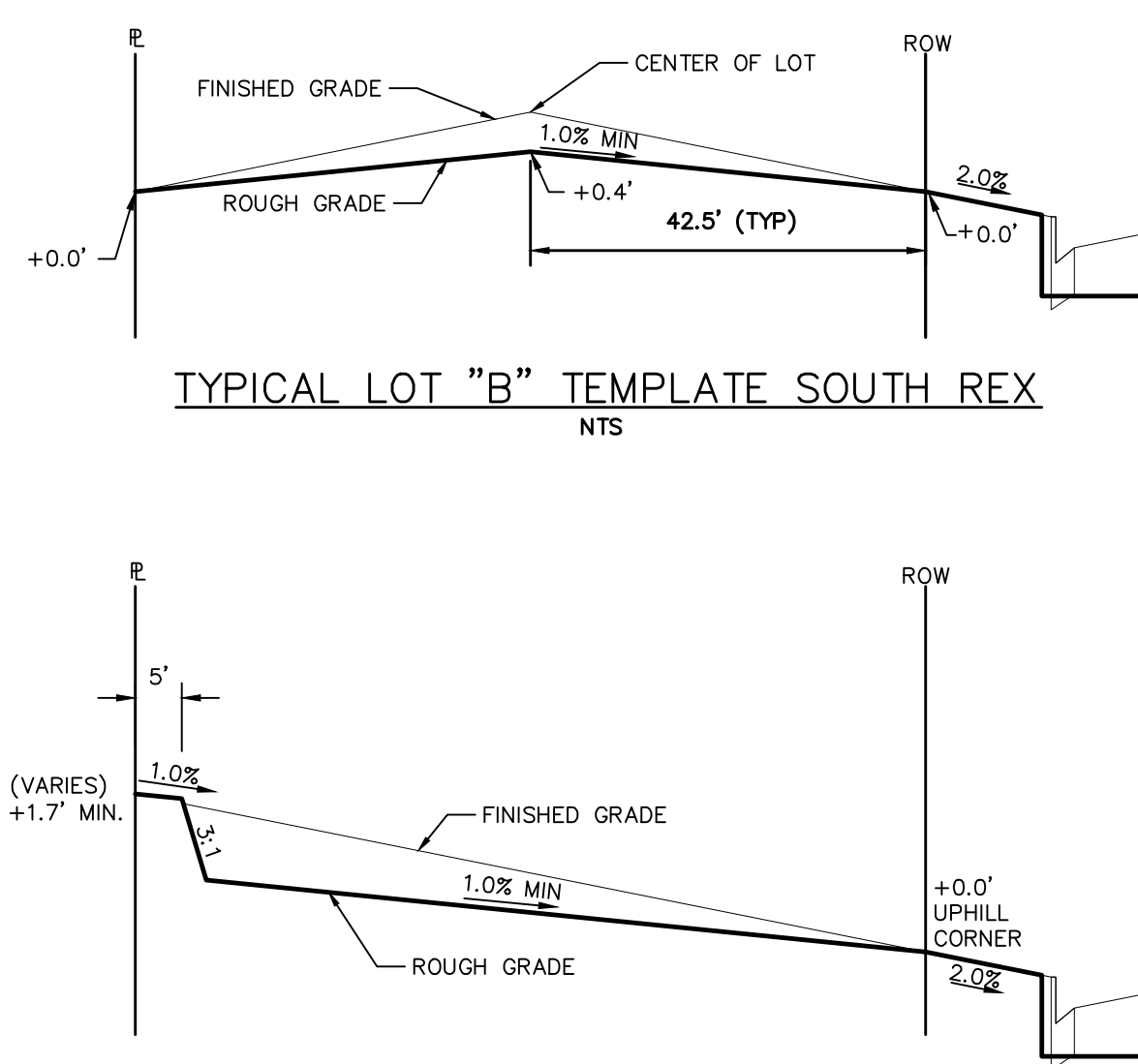
Scale AS SHOWN  
 21 of 23  
 Drawn by LOG  
 Checked by TAK  
 Date MARCH 2022



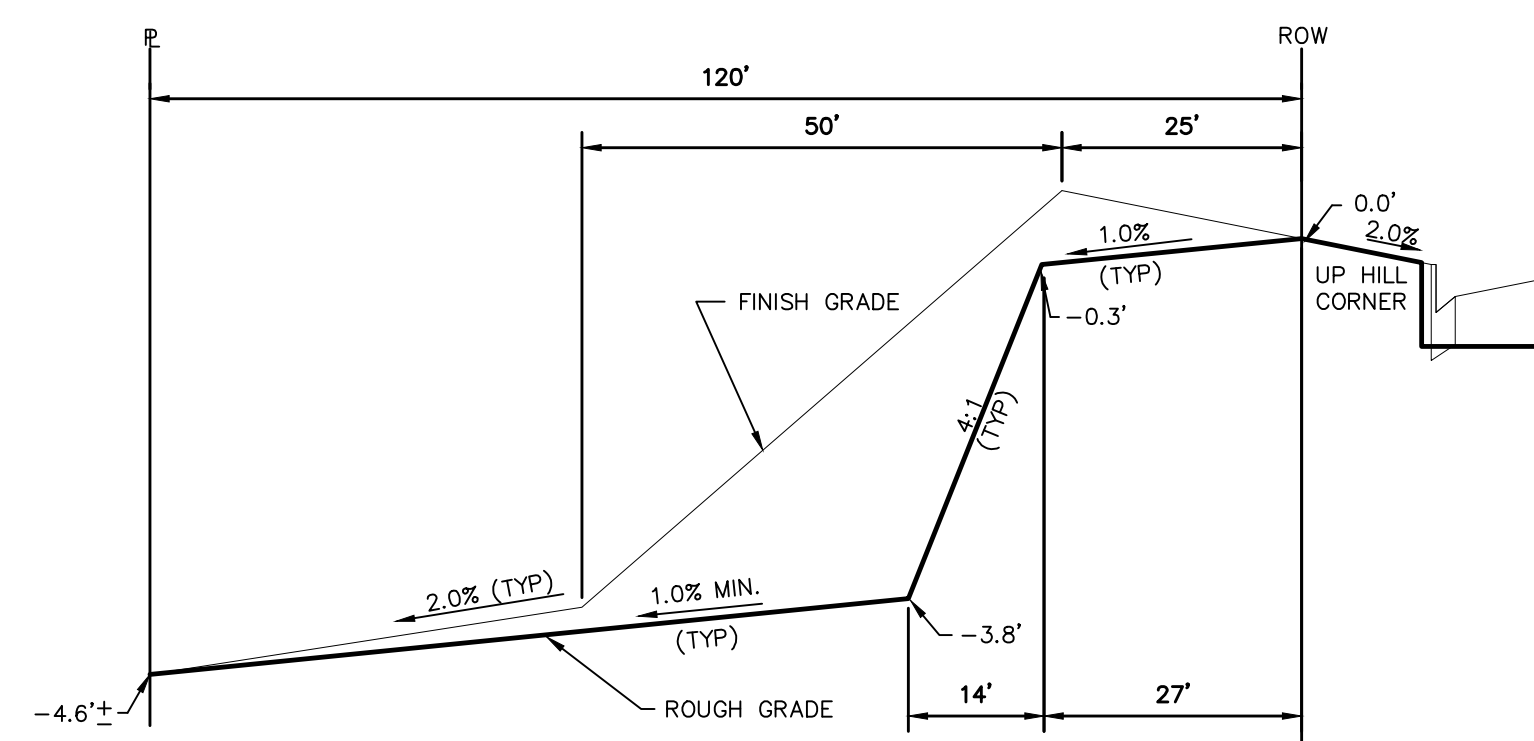
TYPICAL LOT "G2" TEMPLATES  
NTS



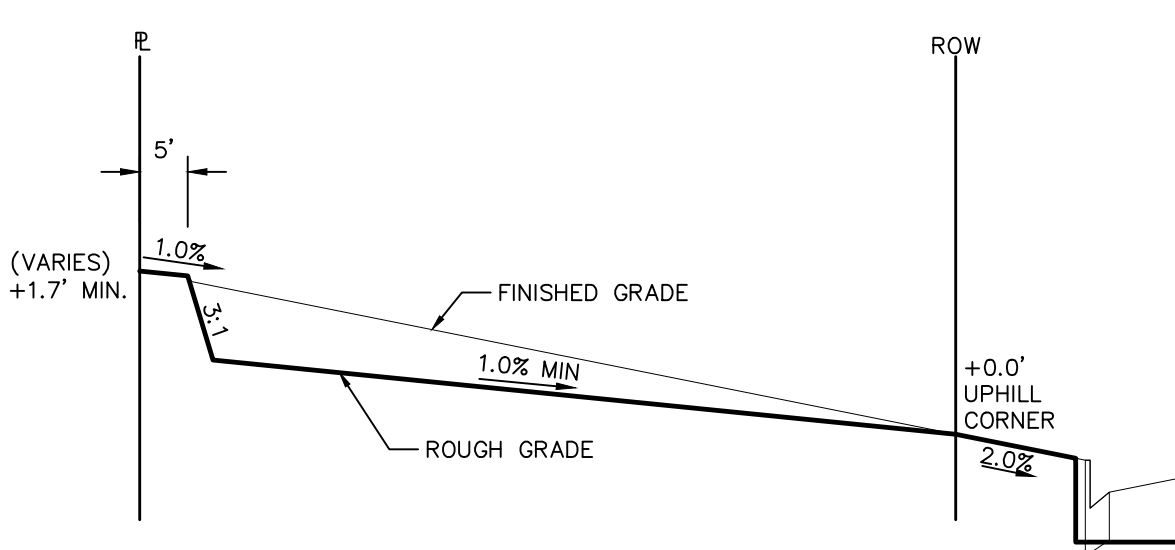
TYPICAL LOT "W8" TEMPLATES  
NTS



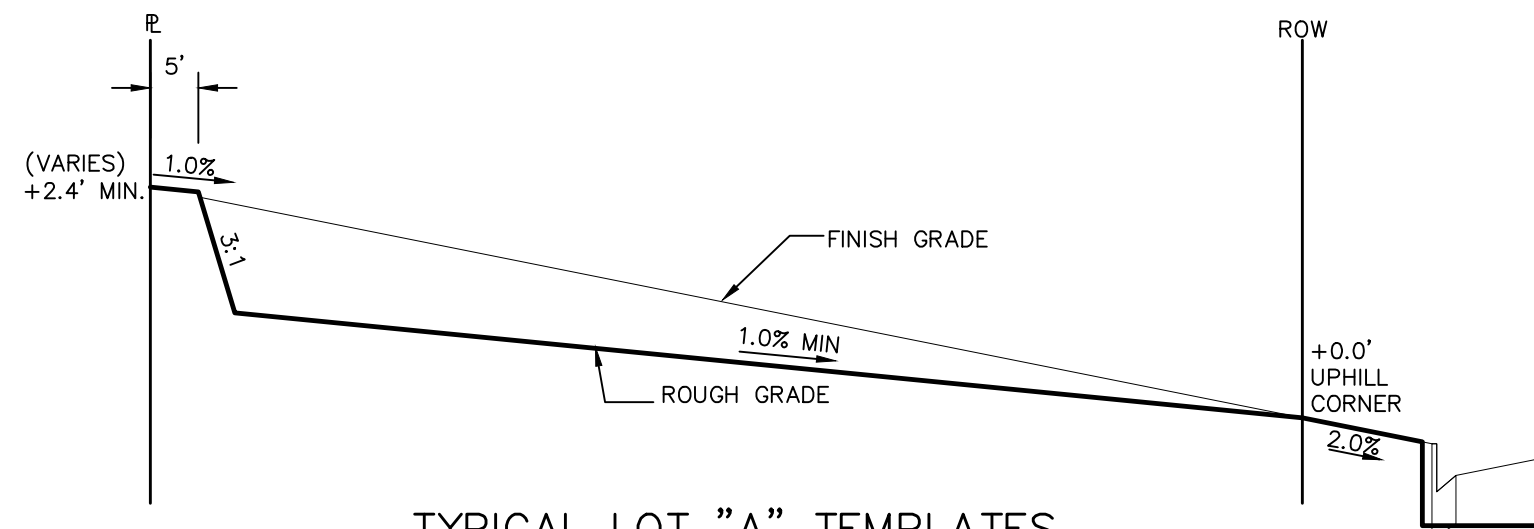
TYPICAL LOT "B" TEMPLATE SOUTH REX  
NTS



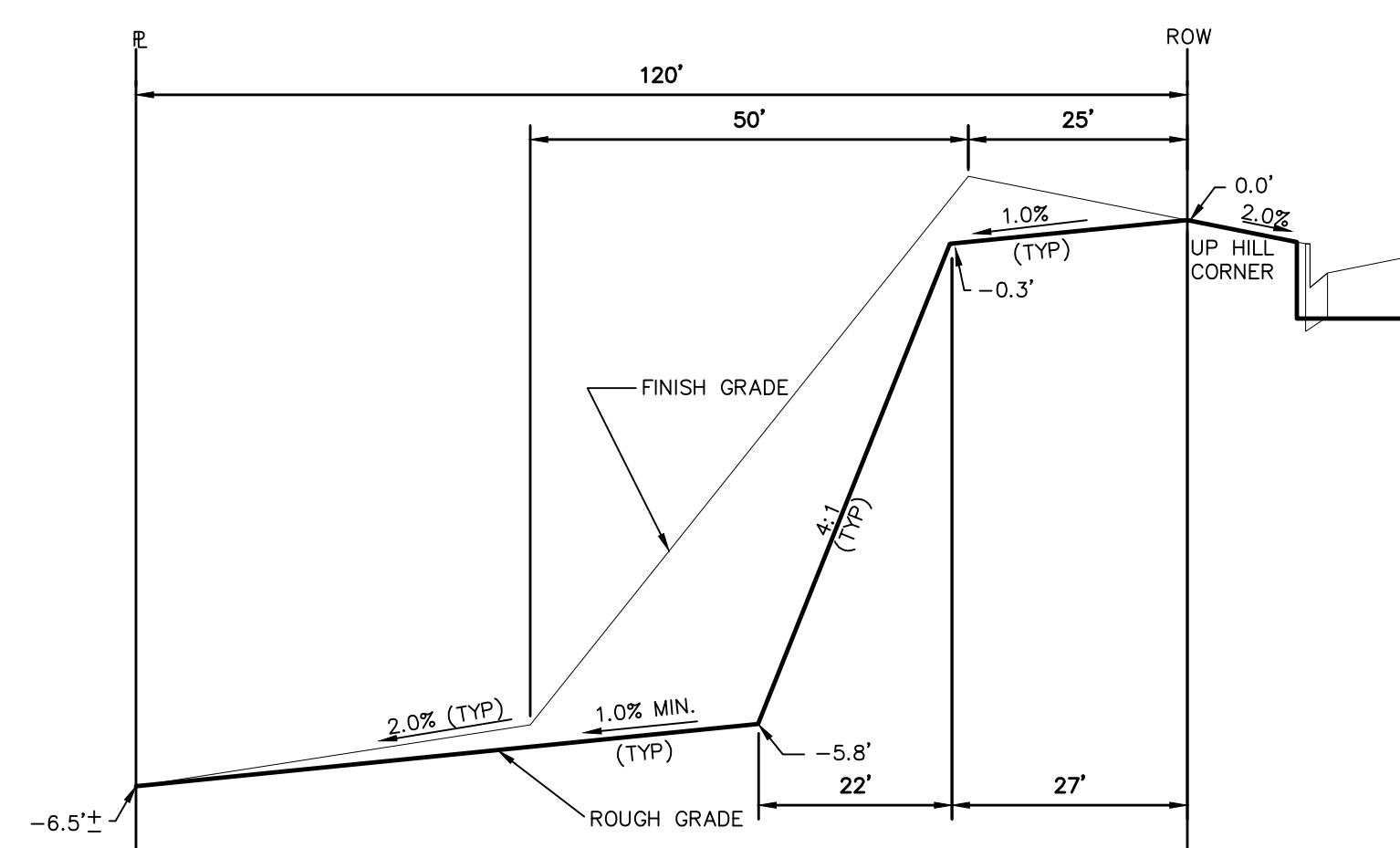
TYPICAL LOT "G4" TEMPLATES  
NTS



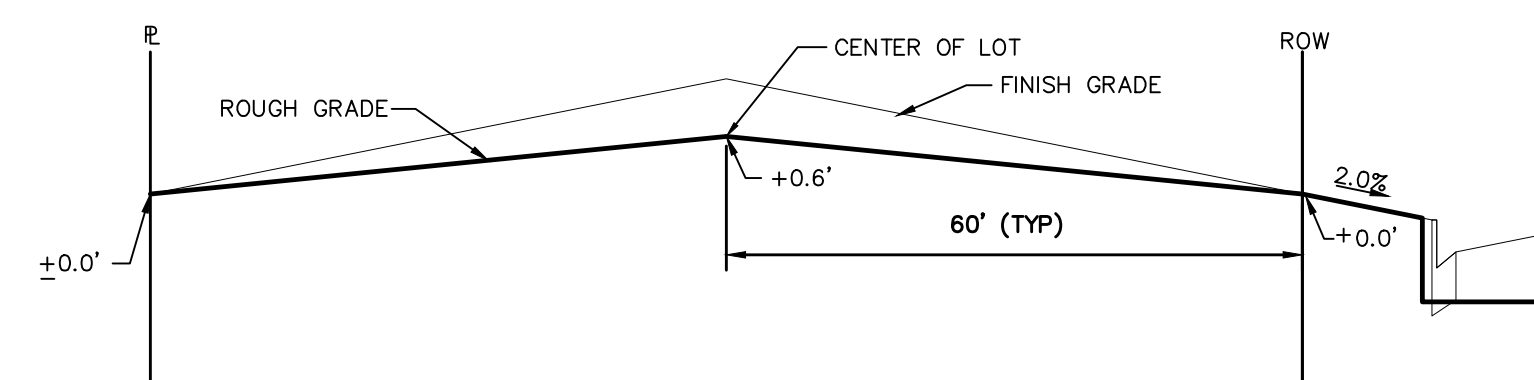
TYPICAL LOT "A" TEMPLATE SOUTH REX  
NTS



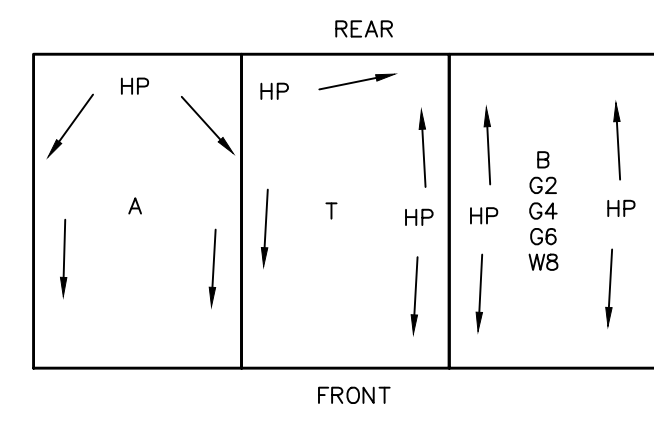
TYPICAL LOT "A" TEMPLATES  
NTS



TYPICAL LOT "G6" TEMPLATES  
NTS



TYPICAL LOT "B" TEMPLATES  
NTS



TYPICAL DRAINAGE PATTERN  
NTS

**STEPS FOR CONSTRUCTION**

THE ANTICIPATED START FOR THIS PROJECT IS JUNE 2022 WITH AN ANTICIPATED COMPLETION DATE OF AUGUST 2022. 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
- \* SEEDING, BLANKET AND RIP-RAP INSTALL

**EROSION AND SEDIMENT CONTROLS**

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

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

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

**MATERIAL HANDLING AND SPILL PREVENTION**

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

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

**FINAL STABILIZATION AND LONG TERM STORMWATER MANAGEMENT**

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

**OTHER CONTROLS**

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

**INSPECTION AND MAINTENANCE**

- A THOROUGH INSPECTION OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE PERFORMED EVERY 14 DAYS AS WELL AS AFTER ANY RAIN OR SNOWMELT EVENT THAT CAUSES SURFACE EROSION:
- \* EROSION OF V-NOTCH SWALES, CHANNELS AND SIDE SLOPES SHALL BE REPAIRED.
  - \* WHEN THE CHECK DAMS HAVE SILTED UP TO HALF THEIR HEIGHT, THE SILT SHALL BE REMOVED, CHANNEL GRADE REESTABLISHED, AND SIDE SLOPES RE-SEDED 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**

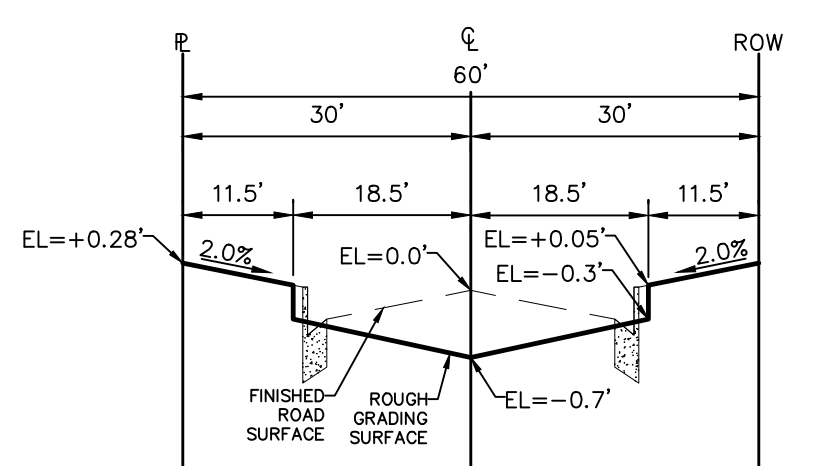
ALL DISTURBED AREAS SHALL BE REQUIRE SEEDING WITHIN TWO (2) WEEKS FOLLOWING THE ESTABLISHMENT OF FINAL GRADE. AREAS TO RECEIVE PAVEMENT DURING THE CONSTRUCTION OF THE ROAD SYSTEM SHALL NOT RECEIVE ANY SEEDING. SEEDING SHOULD BE ACCOMPLISHED USING AN APPROPRIATE GRASS DRILL, BY BROADCASTING OR BY HYDROMULCHING. 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:

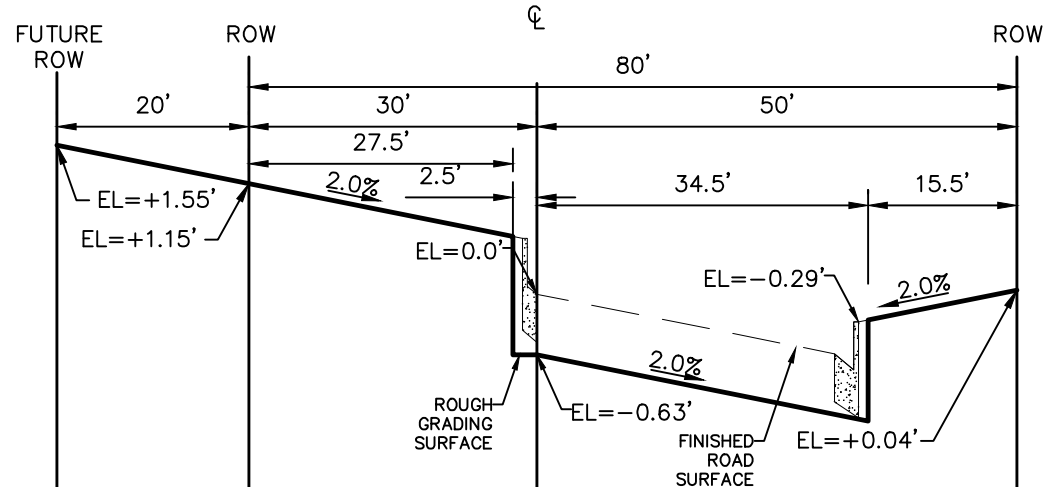
GRASS	VARIETY	AMOUNT IN PLS LBS. PER ACRE
SIDEOATS GRAMA	EL RENO	3.0
WESTERN WHEATGRASS	BARTON	2.5
SLENDER WHEATGRASS	NATIVE	2.0
LITTLE BLUESTERN	PASTURA	2.0
SAND DROPSEED	NATIVE	0.5
SWITCH GRASS	NEBRASKA	3.0
WEEPING LOVE GRASS	MORPHA	1.0

**NOTE:**

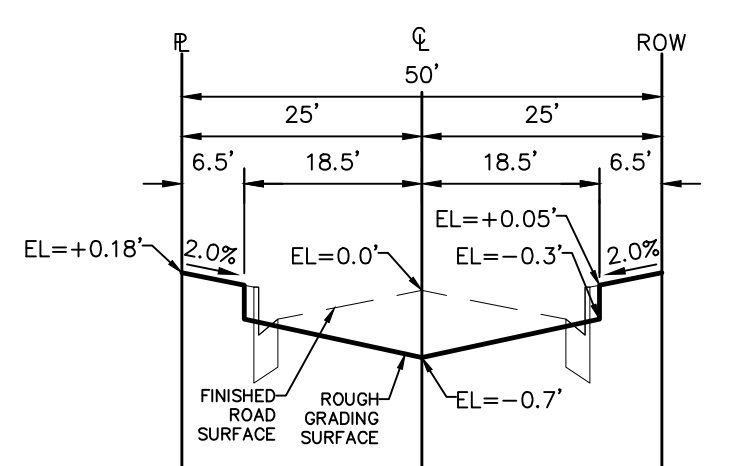
"FINISH GRADE" IN THE TEMPLATES ARE ONLY APPROXIMATE GRADES. ACTUAL FINISHED GRADES WILL VARY DEPENDING ON INDIVIDUAL HOME PLOT PLANS. PLOT PLANS SHALL CLOSELY FOLLOW THE FINISH GRADE PATTERNS SHOWN IN THE TEMPLATES WITHOUT ADVERSELY AFFECTING THE GRADES AND DRAINAGE PATTERNS OF NEIGHBORING LOTS OR TRACTS. 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.



TYPICAL RESIDENTIAL STREET SECTION  
60' ROW  
NTS



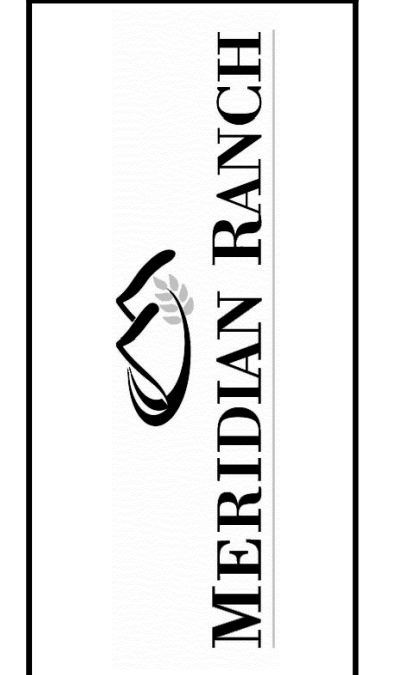
REX ROAD TYPICAL  
TEMP. MINOR ARTERIAL STREET SECTION  
80' ROW (100' FUTURE)  
NTS



TYPICAL RESIDENTIAL STREET SECTION  
SOUTH OF REX ROAD  
50' ROW  
NTS

Date	Appr.	Date	Revisions	No.

TECH CONTRACTORS  
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FALCON, CO 80831  
TELEPHONE: 719.495.7444  
FAX: 719.495.2457



PREDEVELOPMENT GRADING  
ROLLING HILLS RANCH NORTH  
ROUGH GRADING AND EROSION  
CONTROL PLAN  
DETAIL SHEET

Drawn by	LOG	Checked by	TAK	Date
				MARCH 2022

Scale AS SHOWN  
22 of 23

