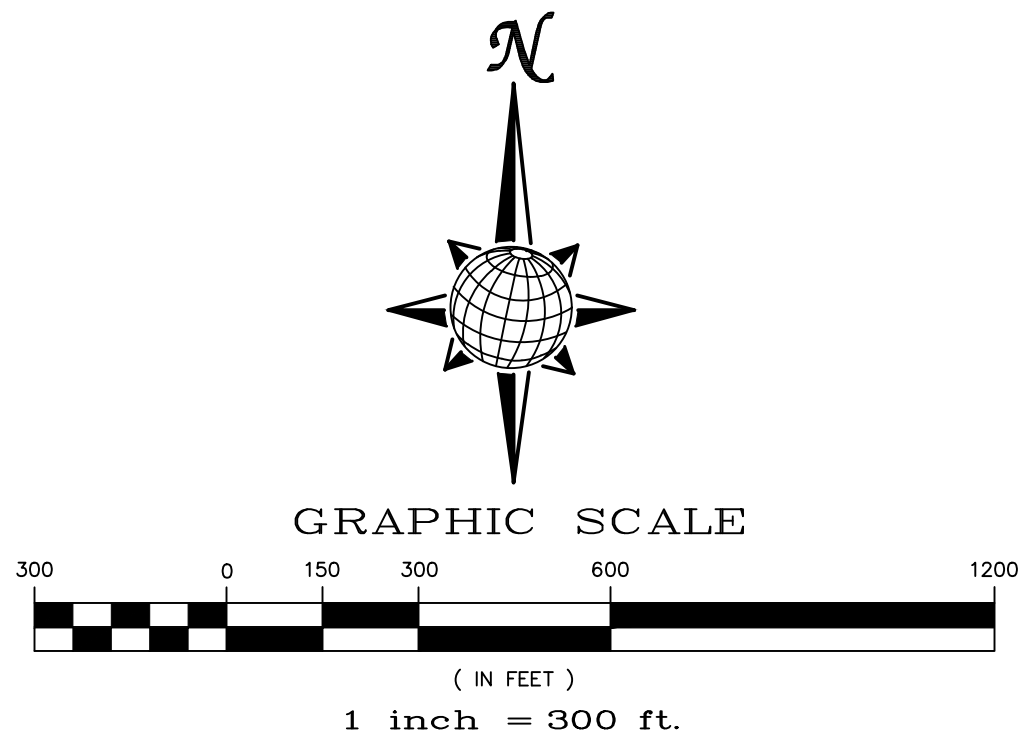
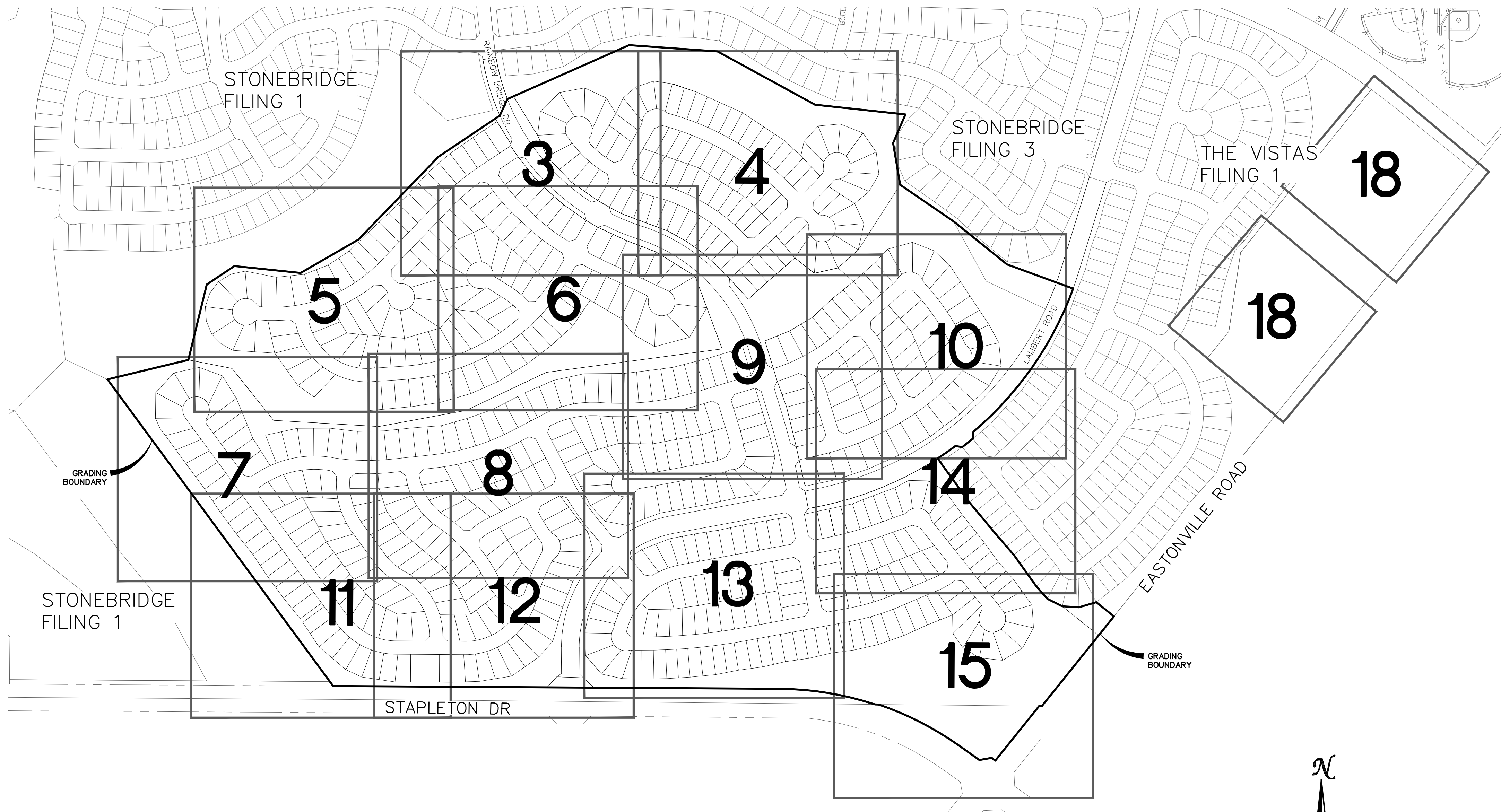
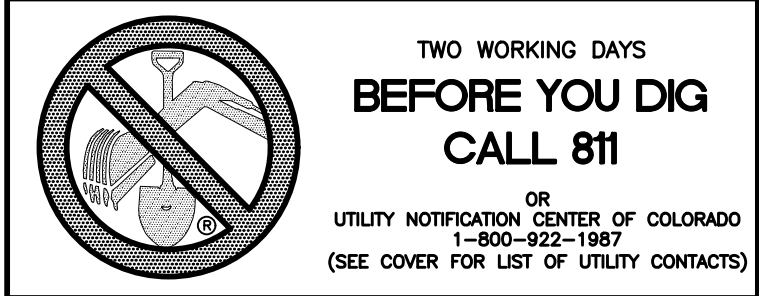
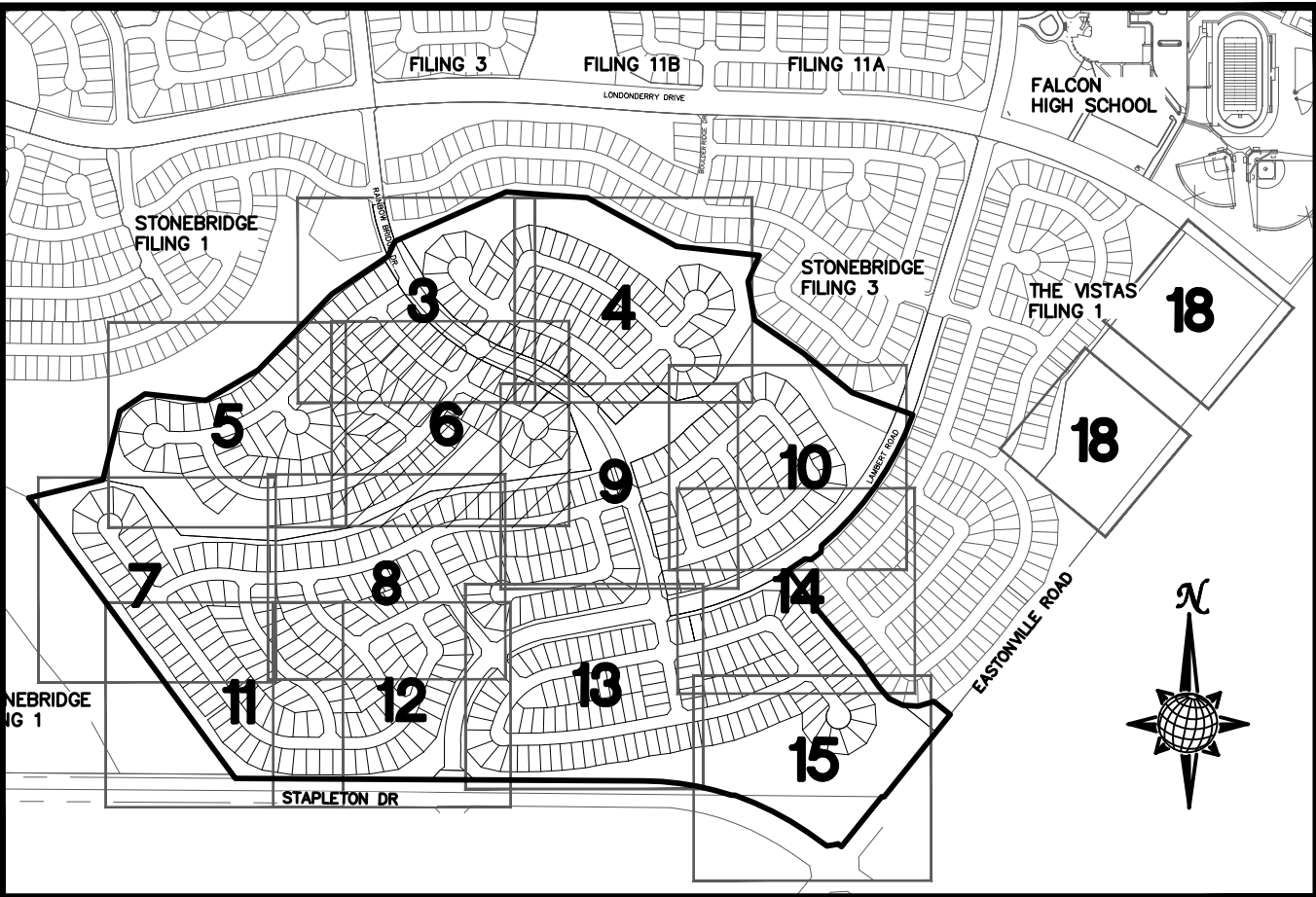
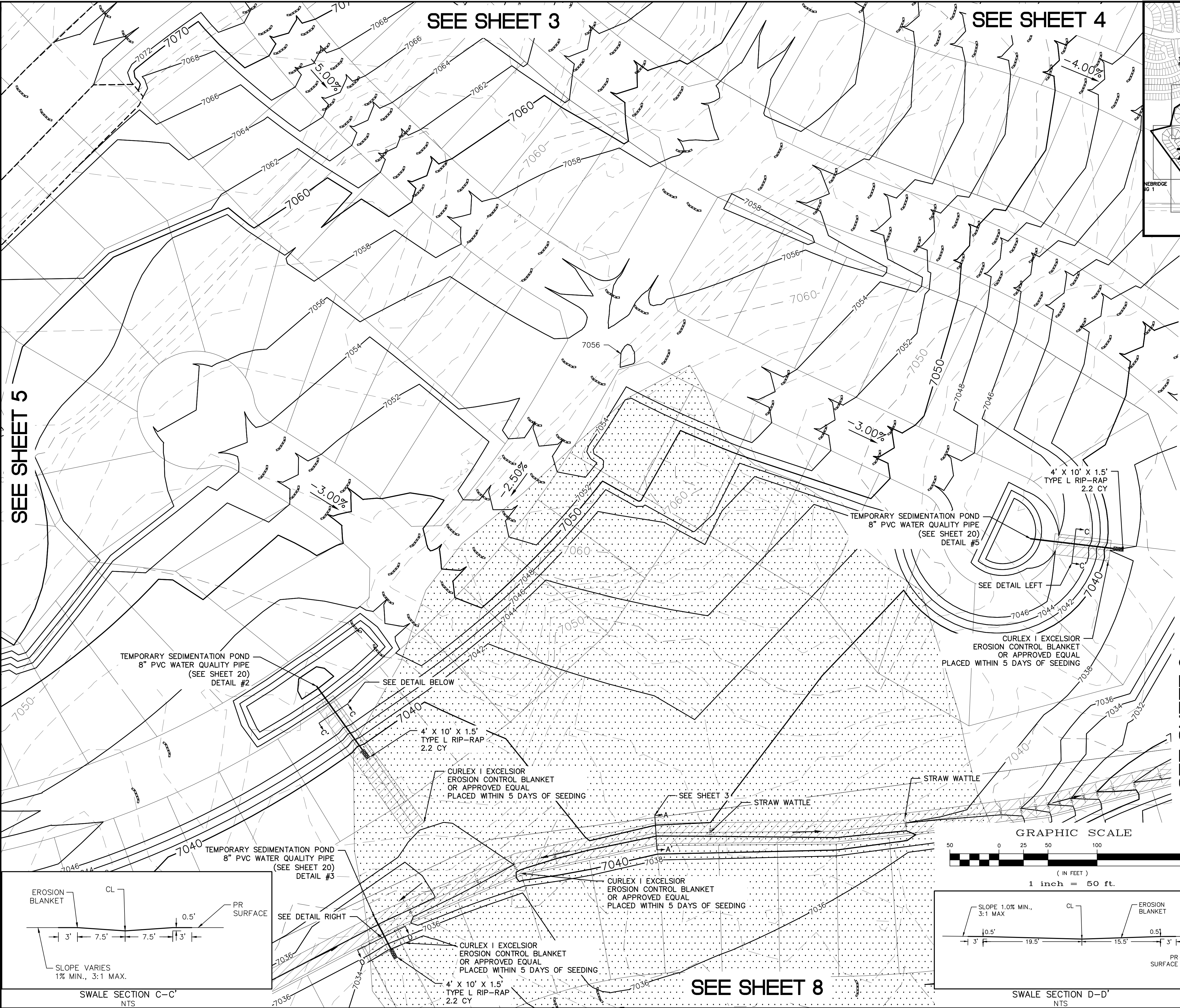


1. CONSTRUCTION MAY NOT COMMENCE UNTIL A CONSTRUCTION PERMIT IS OBTAINED FROM PLANNING AND COMMUNITY DEVELOPMENT (PCD) AND A PRECONSTRUCTION CONFERENCE IS HELD WITH PCD INSPECTORS.
2. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION 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.
3. 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.
4. 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. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED STORMWATER MANAGER. THE PLAN SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
5. ONCE THE ESQCP HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGING EROSION AND SEDIMENT CONTROL BMPs AS INDICATED ON THE GEC. A PRECONSTRUCTION MEETING BETWEEN THE STORMWATER 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 PCD INSPECTIONS STAFF.
6. SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND SHALL BE COMPLETED WITHIN 21 CALENDAR DAYS AFTER FINAL GRADING OR FILLING. EARTH DISTURBANCE HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN FORMED FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SEEDED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMPs SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND ESTABLISHED.
7. TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND EARTH DISTURBANCE AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURSUANT TO STANDARDS AND SPECIFICATION DESCRIBED IN THE DCM VOLUME II AND THE ENGINEERING CRITERIA MANUAL (ECM) APPENDIX I.
8. ALL PERSONS ENGAGED IN EARTH DISTURBANCE SHALL IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BMPs IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME II AND IN ACCORDANCE WITH THE STORMWATER MANAGEMENT PLAN (SWMP).
9. ALL TEMPORARY EROSION CONTROL FACILITIES INCLUDING BMPs AND ALL PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF ANY EARTH DISTURBANCE OPERATIONS, SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS, THE SWMP AND THE DCM VOLUME II AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION.
10. ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE 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.
11. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE DISCHARGE TO A NON-EROSIVE VELOCITY.
12. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
13. EROSION CONTROL BLANKETTING IS TO BE USED ON SLOPES STEEPER THAN 3:1.
14. BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER 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. BMP'S MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
15. VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSSED OF IMMEDIATELY.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR WHICH THEY HAVE RECEIVED THE DCM AND ALL REGULATION REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
17. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
18. 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.
19. NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECOM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
20. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADIUTATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
21. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCHLINE.
22. INDIVIDUALS 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 INCLUDED IN THE DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (NPDES, FLOODPLAIN, 404, FUGITIVE TAIL, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
23. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS
24. PRIOR TO ACTUAL CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
25. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
26. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. JAN. 25 2018 AND SHALL BE CONSIDERED A PART OF THESE PLANS.
27. AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 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:



<u>EARTHWORK QUANTITIES</u>		
NET YARDS	BALANCE	
TOTAL STRIPPINGS	177.2 AC.	95,300 CY
	<u>CUT</u>	<u>FILL</u>
NET YARDS	455,800 CY	468,700 CY
20% COMPACTION FACTOR		

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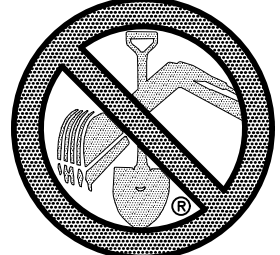
INDEX MAP
N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 22
		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
	VTG	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION PER DETAIL SHEET 22
		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.

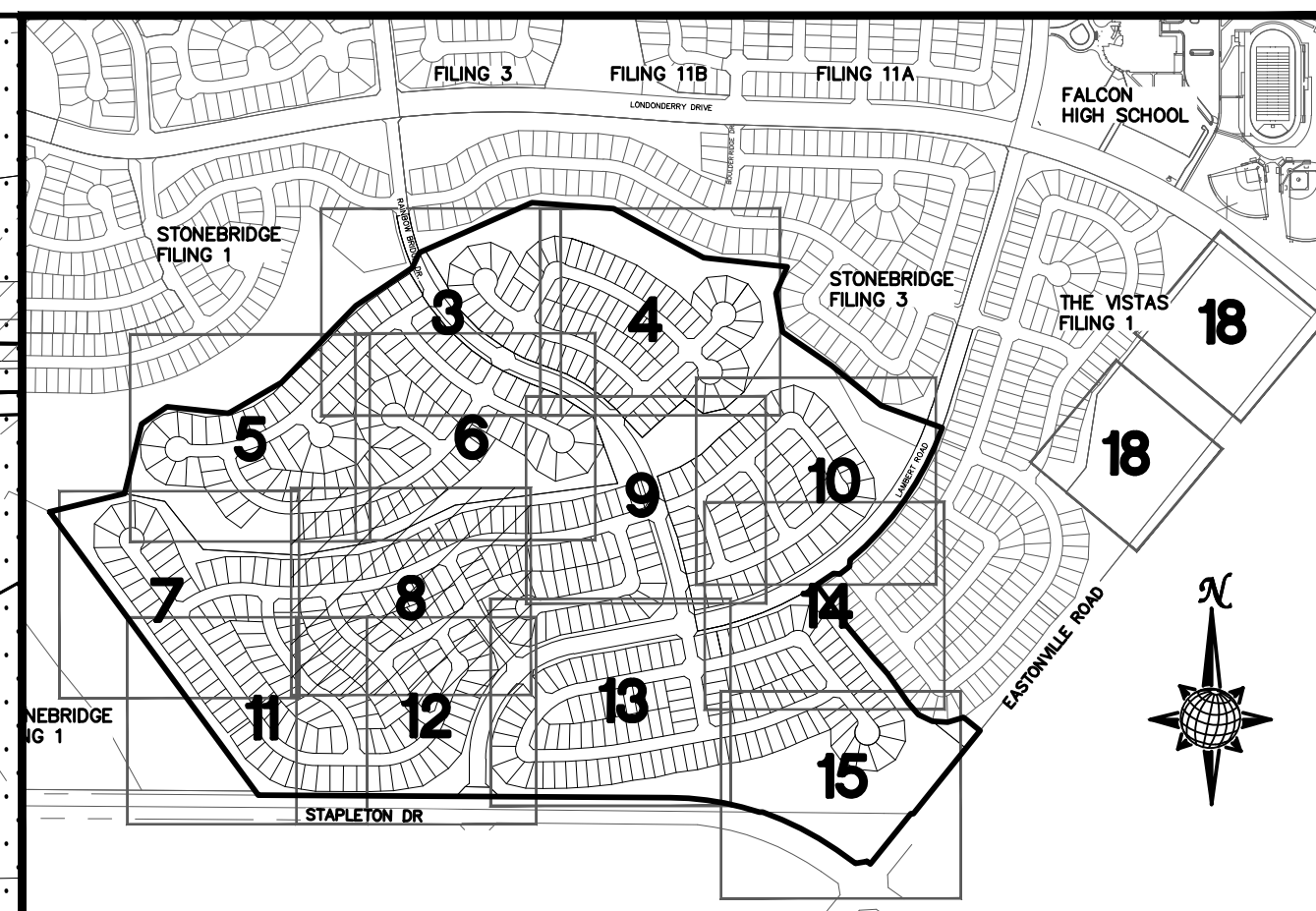
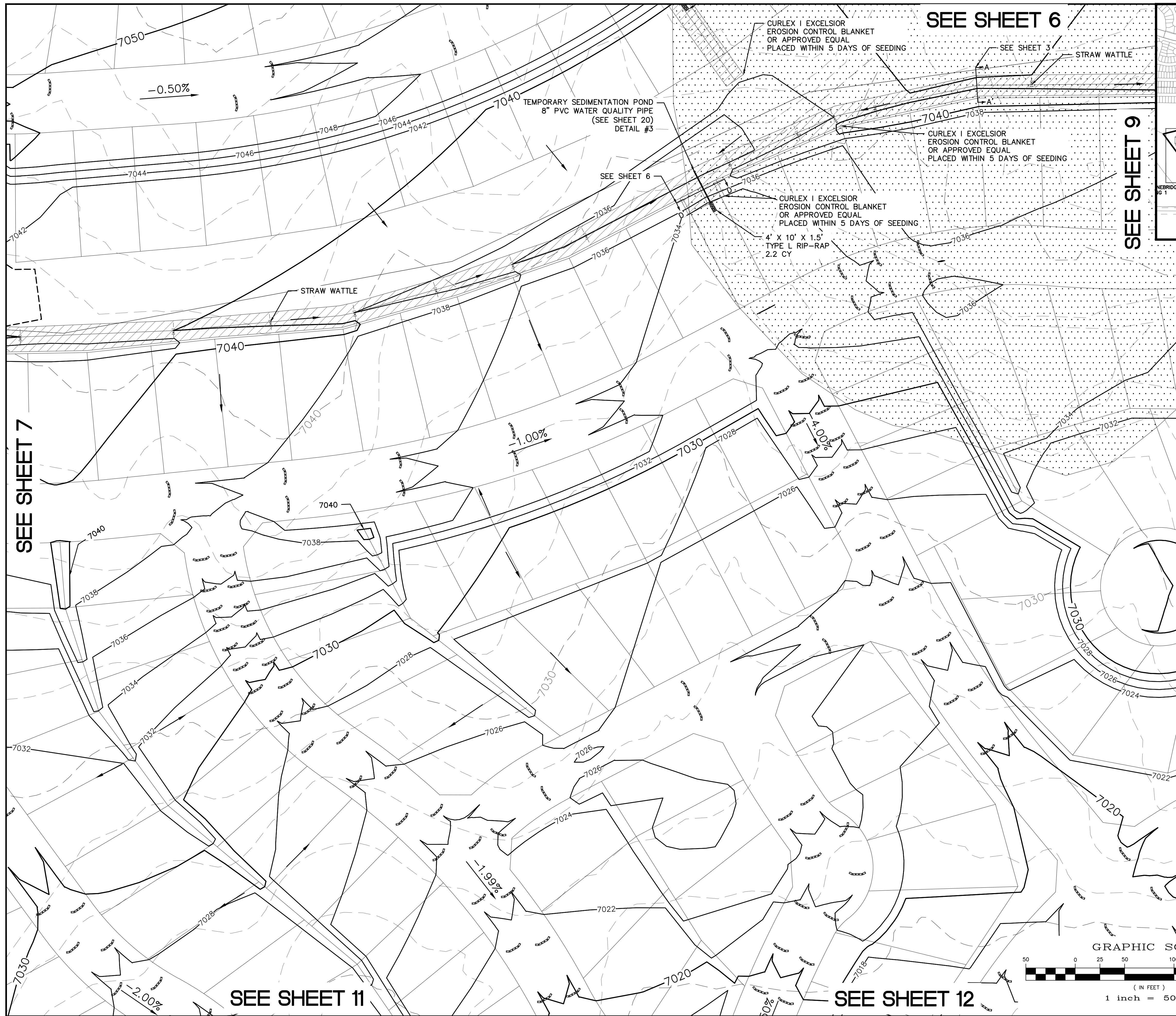
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CONSTRUCTION DRAWINGS
4)STAPLETON DRIVE CONSTRUCTION DRAWINGS
5)GUTHRIE RAW WATER EXTENSION THE VISTAS
FILING 1 OFFSITE
6)MERIDIAN RANCH FILING 11
7)VISTAS FILING 1 AT MERIDIAN RANCH










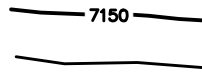
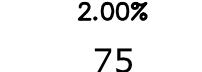

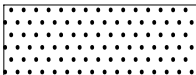


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(SEE COVER FOR LIST OF UTILITY CONTACTS)

<div>Scale</div> <div>AS SHOWN</div>		<div>Drawn by</div> <div>LCA</div>	<div>ROUGH GRADING WINDINGWALK AT MERIDIAN RANCH ROUGH GRADING-EROSION CONTROL PLAN PLAN SHEET</div>	<div></div> <div>MERIDIAN RANCH</div>	<div>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</div>					
<div>6 of 22</div>		<div>Date</div> <div>FEB 2018</div>								

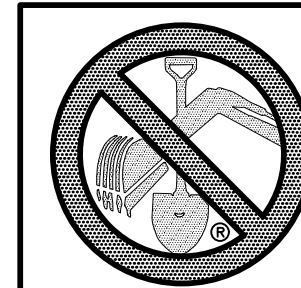


INDEX MAP
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<u>SYMBOL</u>	<u>ACRONYM</u>	<u>DESCRIPTION</u>
		STRAW BALES
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		PER DETAIL SHEET 22
		EROSION CONTROL BLANKET
		PER DETAIL ECB-1 & ECB-2
		DCM VOL. 2
	RCP	REINFORCED CONCRETE PIPE
	(SF)	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
	(VTC)	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
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		LIMITS OF GRADING
		EXISTING CONTOUR (10')
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		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
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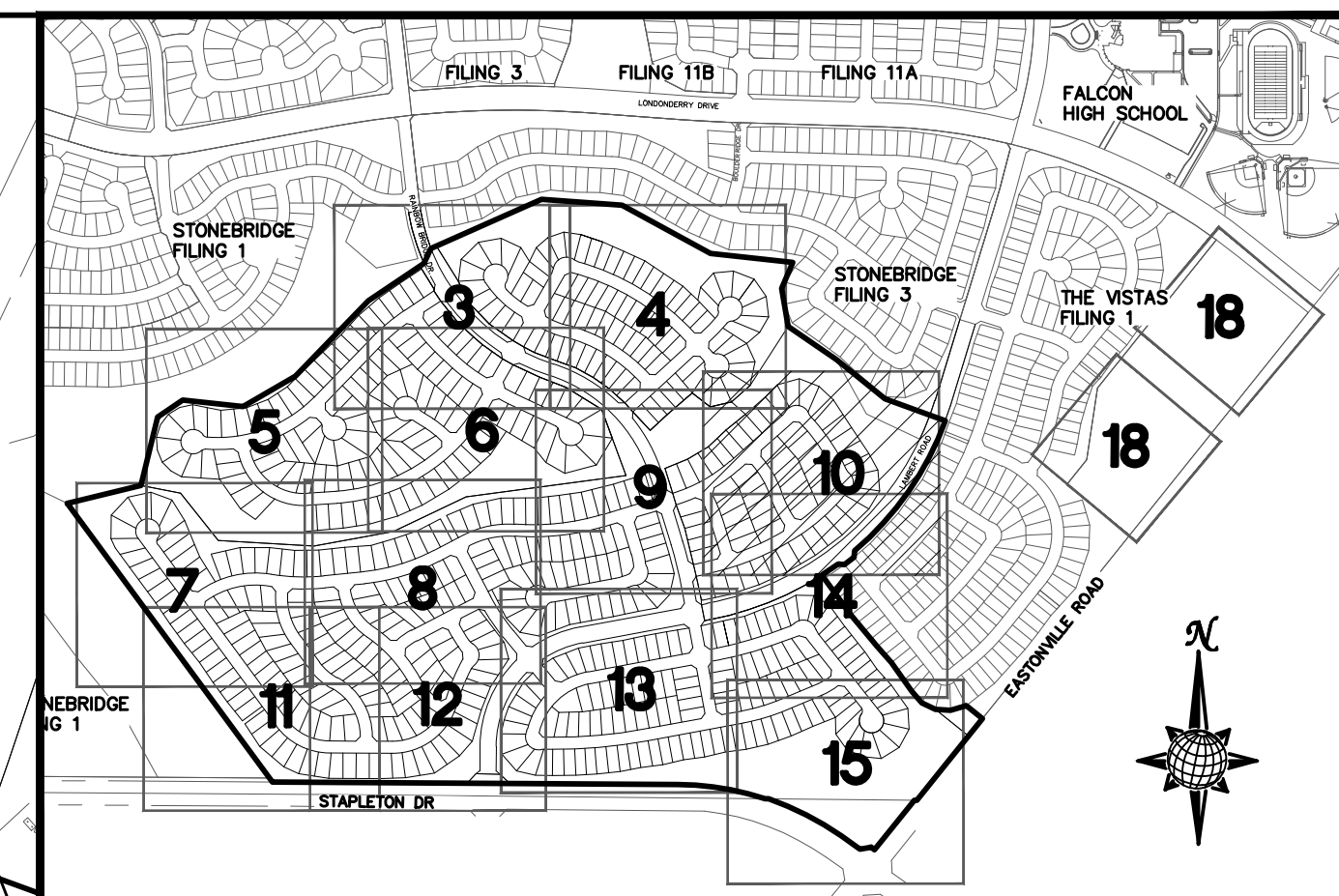
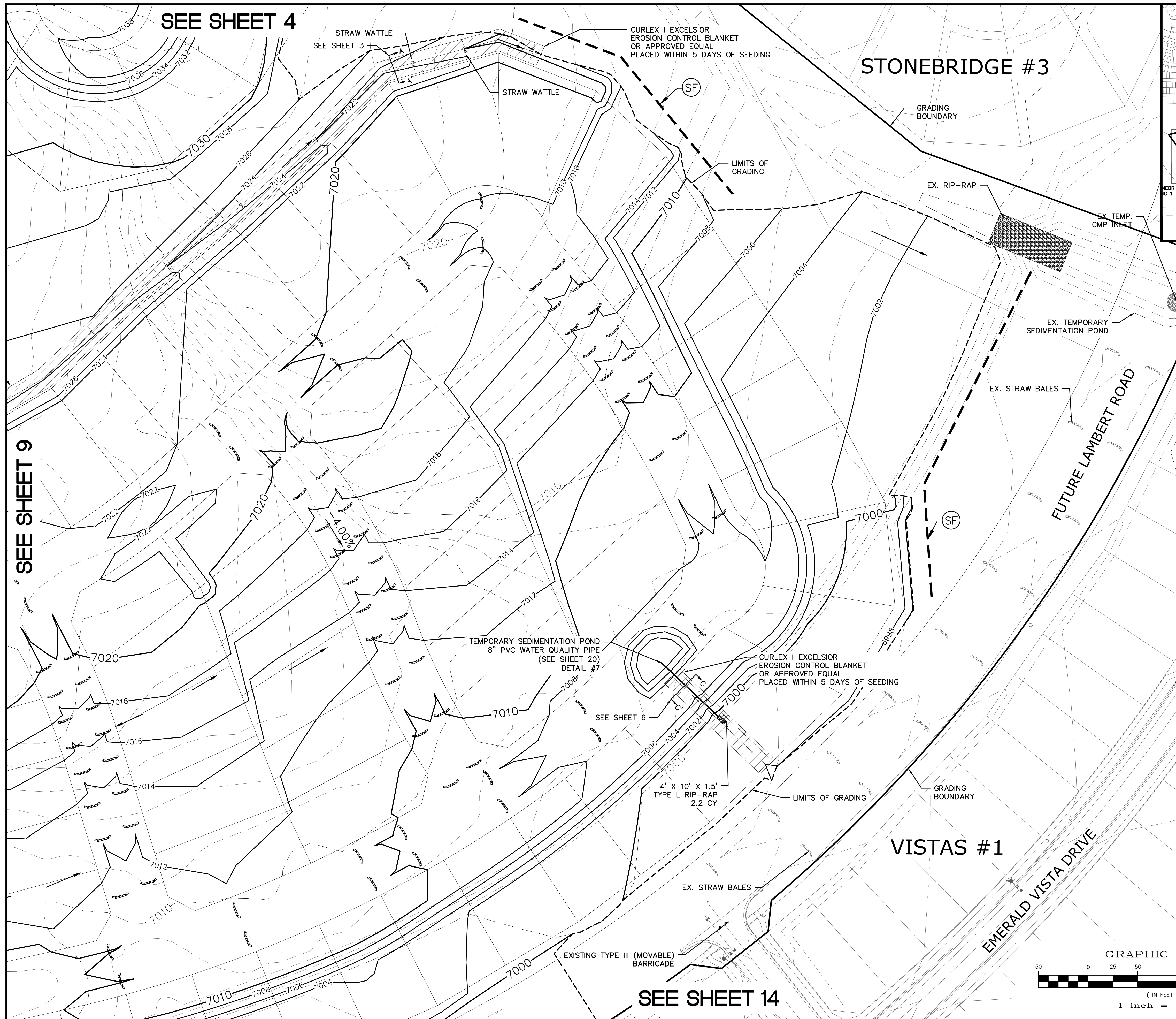
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


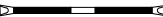


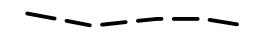

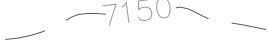


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		<div>Date</div>									
						No.	Revisions	Date	Instr.	Appr.	Date



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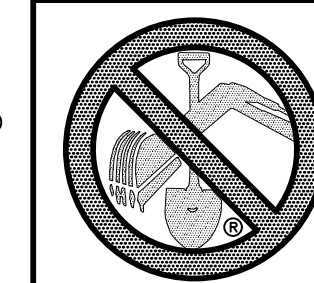
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2.00%		GRADE
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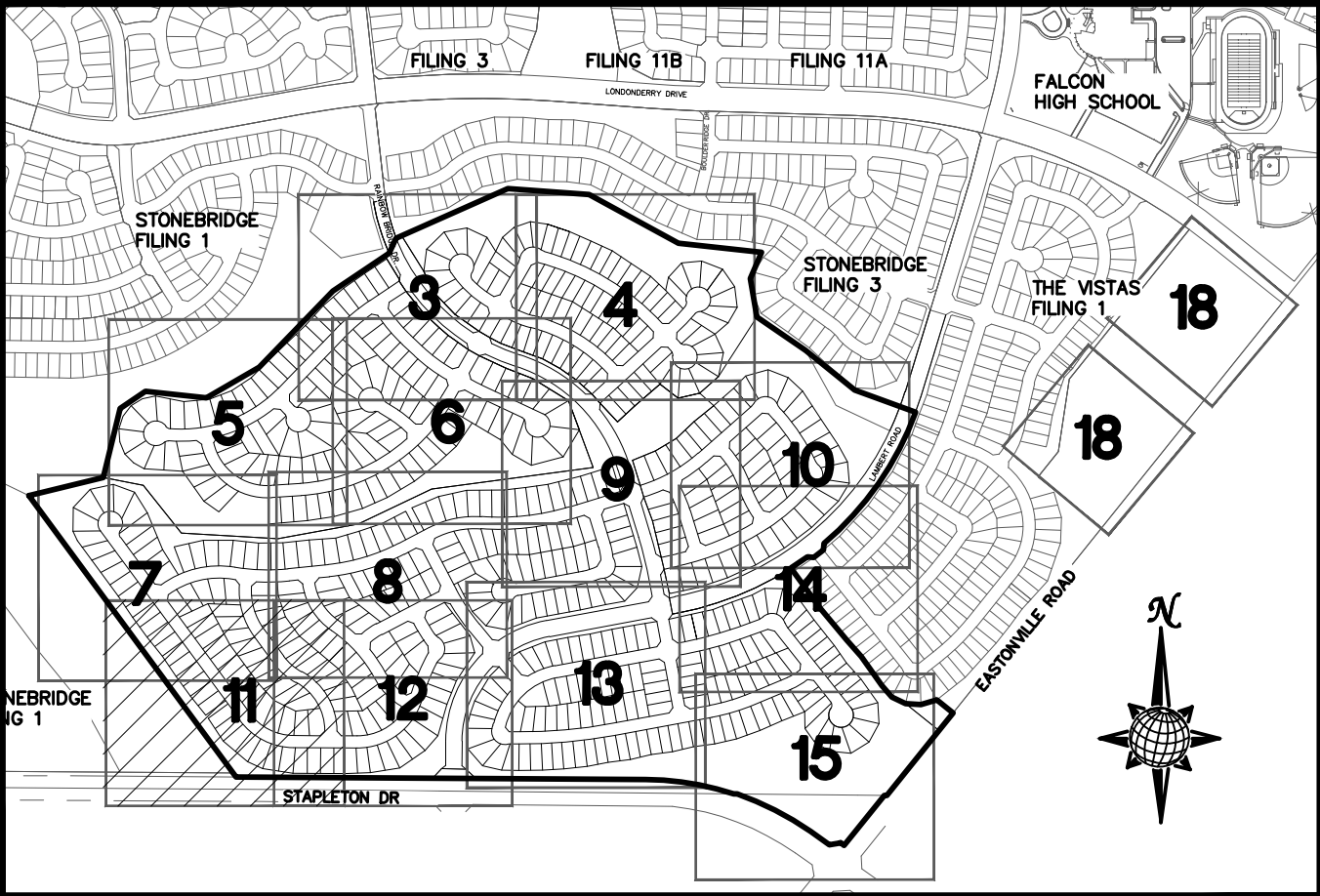
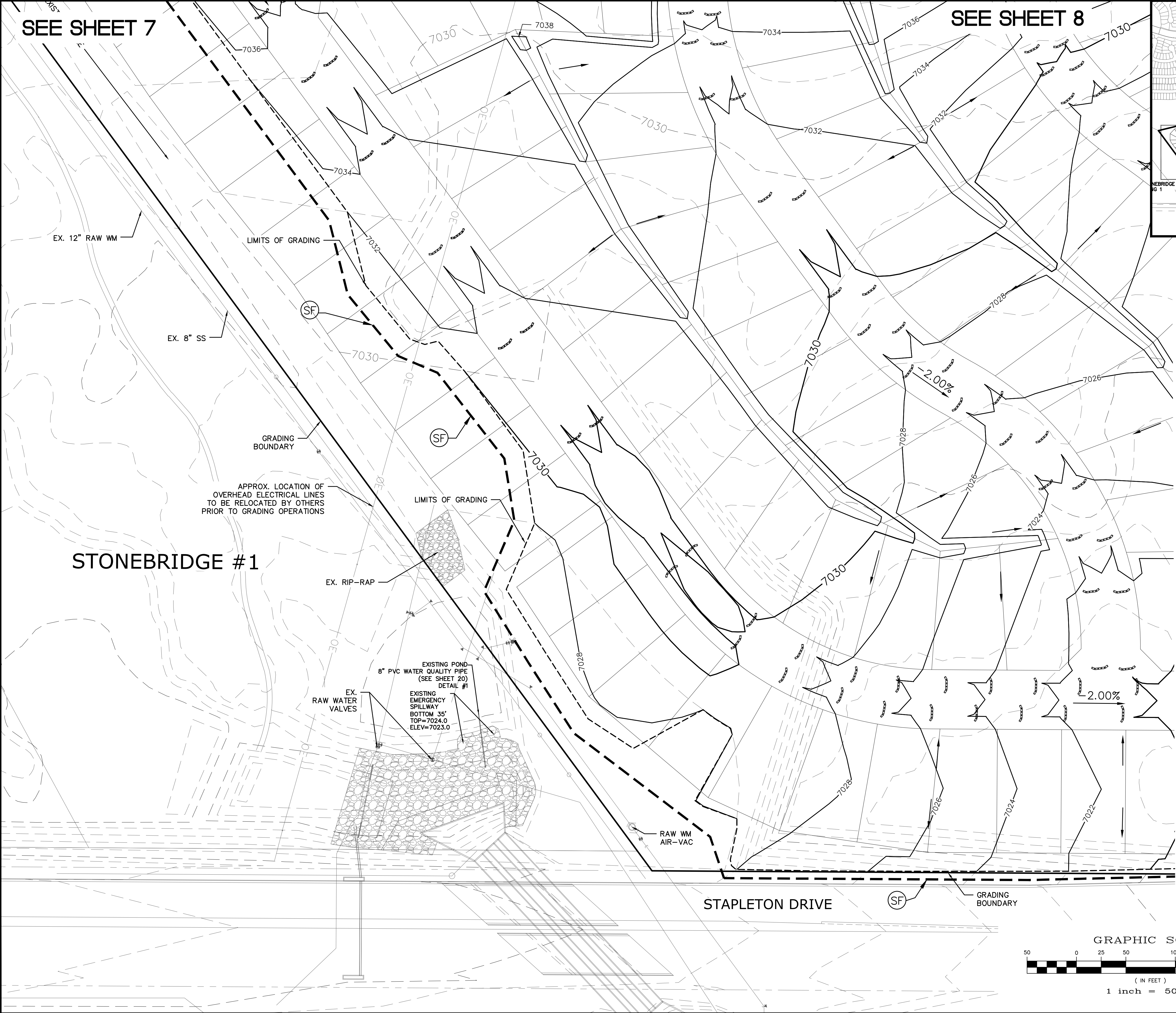
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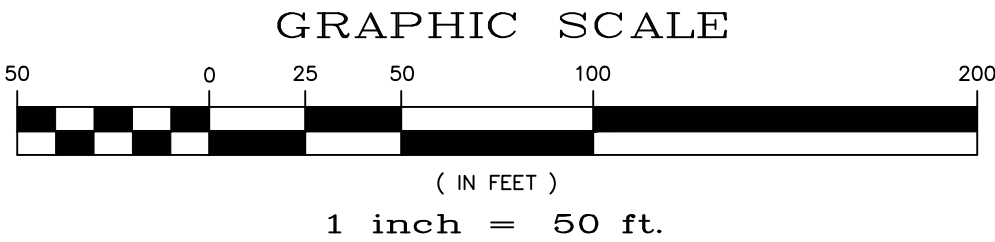
	<div>Scale</div> <div>AS SHOWN</div>	<div>Drawn by</div> <div>LOG</div>	<div>ROUGH GRADING WINDINGWALK AT MERIDIAN RANCH ROUGH GRADINGHEROSION CONTROL PLAN PLAN SHEET</div>	<div> MERIDIAN RANCH</div>	<div>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</div>							
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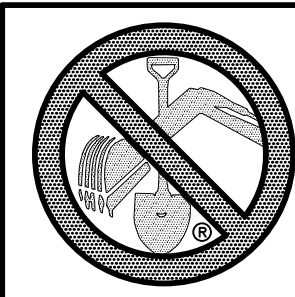


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6)MERIDIAN RANCH FILING 11
7)VISTAS FILING 1 AT MERIDIAN RANCH



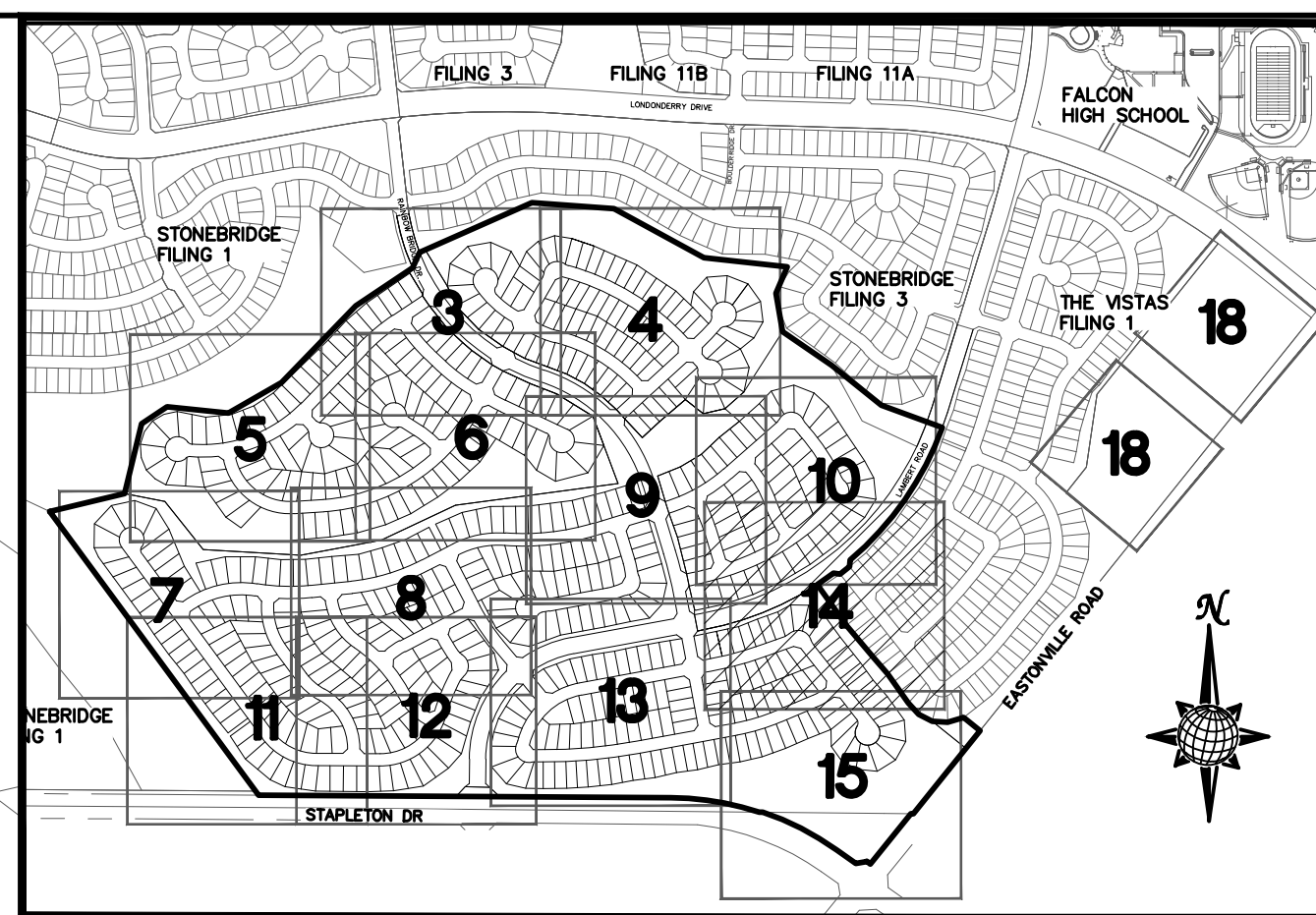
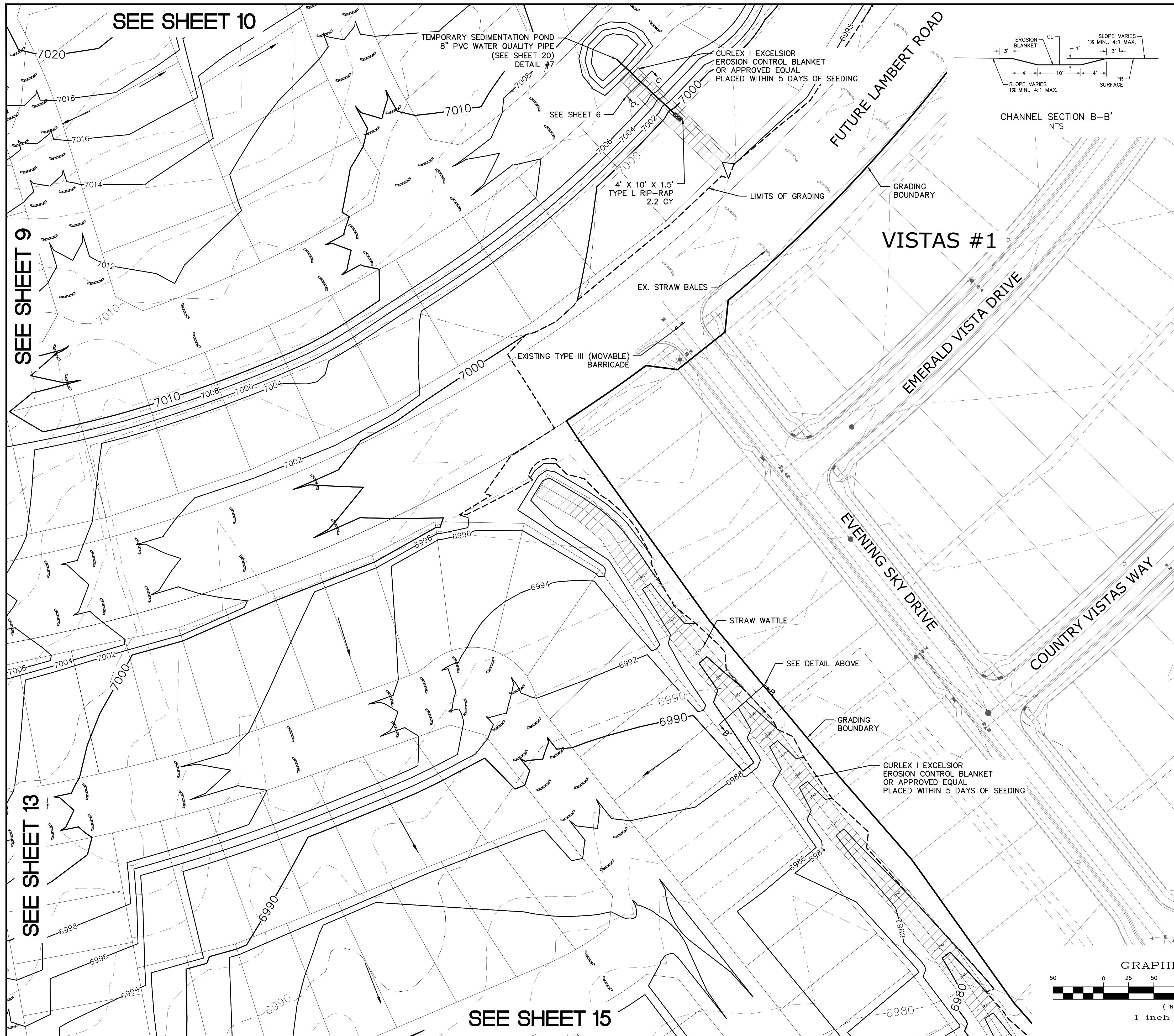


TWO WORKING DAYS
**BEFORE YOU DIG
CALL 811**













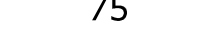

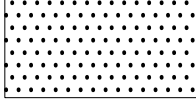
OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

SEE SHEET 12

TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457		MERIDIAN RANCH		ROUGH GRADING WINDWALK AT MERIDIAN RANCH ROUGH GRADING-EROSION CONTROL PLAN PLAN SHEET	Drawn by Loc Checked by TAK	Date FEB 2018
No.	Revisions	Date	Inst.	Appr.	Date	



INDEX MAP
N.T.S.

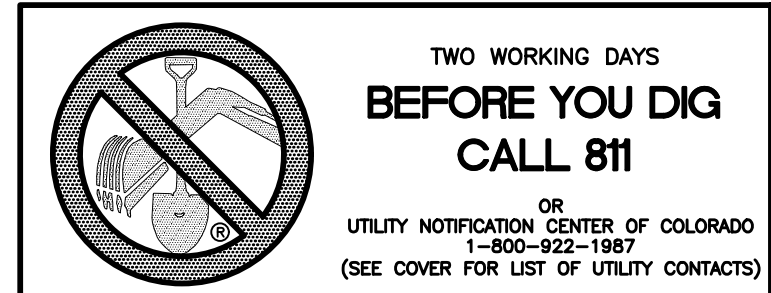
SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 22
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
	RCP	REINFORCED CONCRETE PIPE
	(SF)	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
	(VTG)	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
		INLET PROTECTION PER DETAIL SHEET 22
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
		GRADE
		LOT NUMBER
		LOT GRADE TYPE
		<p>EXISTING STOCKPILE AREAS</p> <p>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.</p>

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 21.

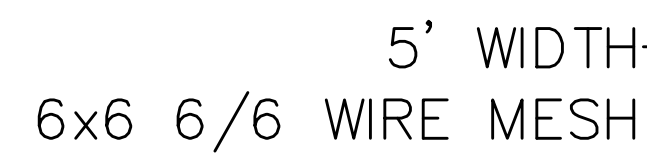
CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.

EX. UTILITIES SEE CONSTRUCTION DRAWINGS FOR:

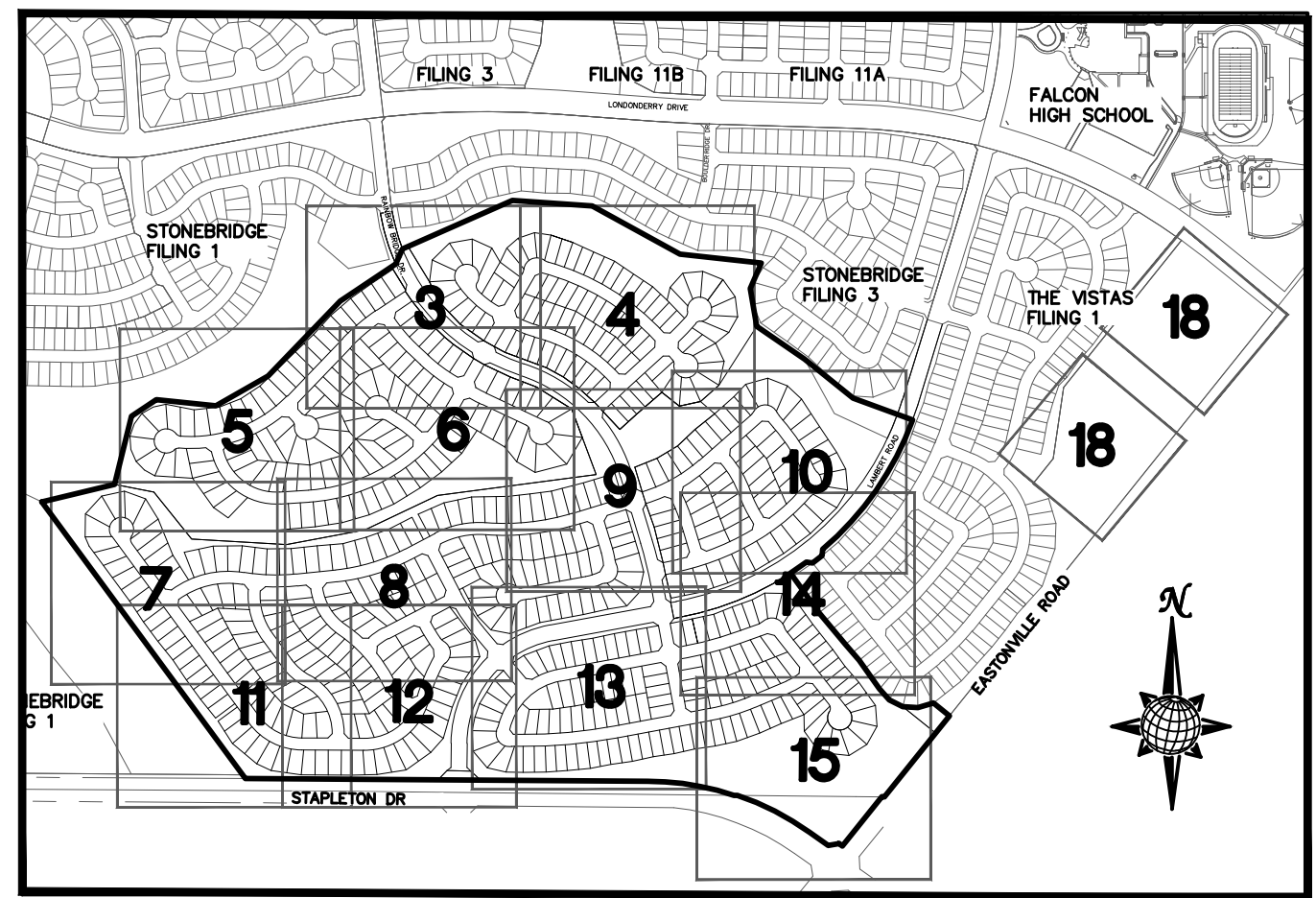
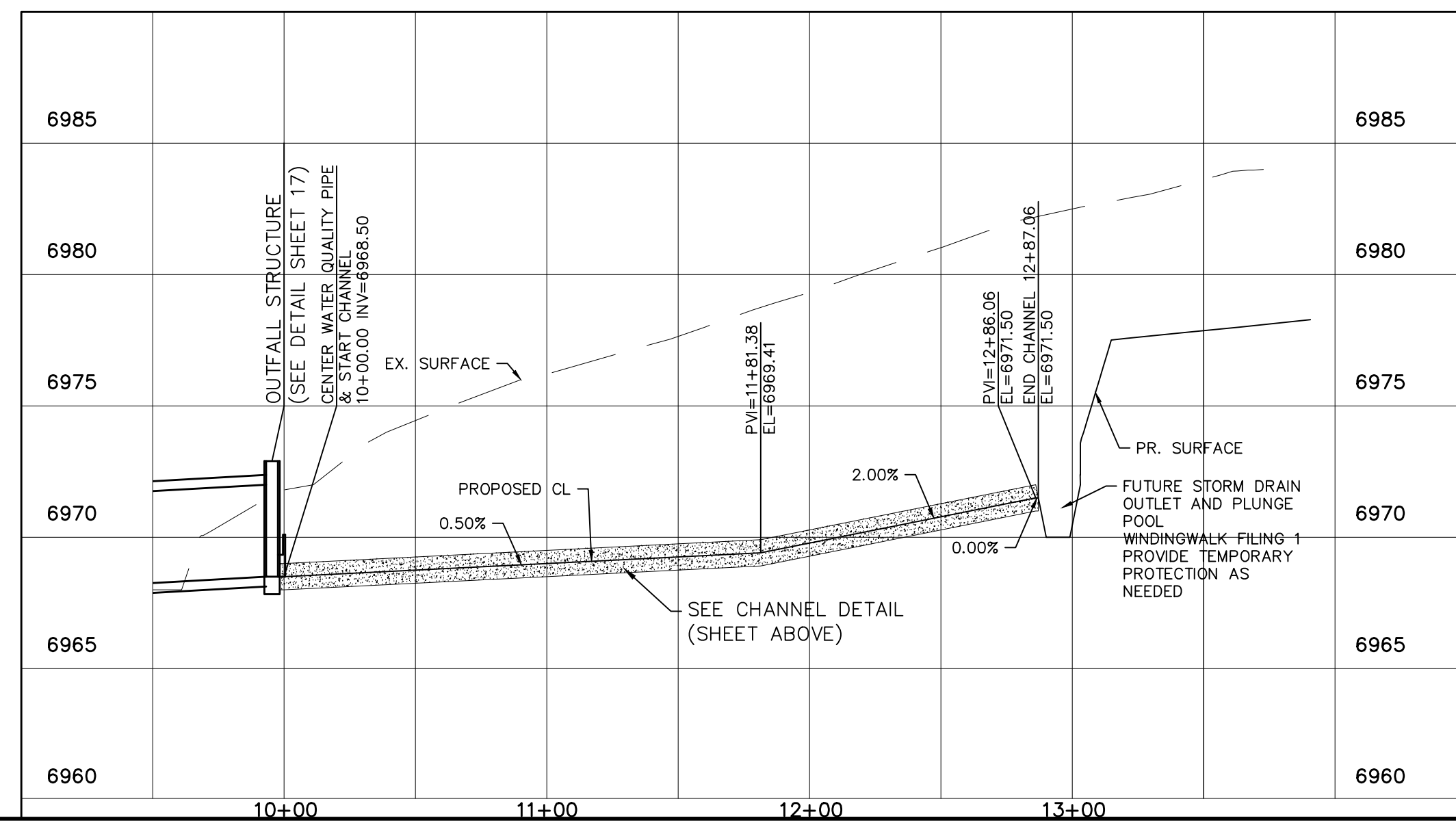
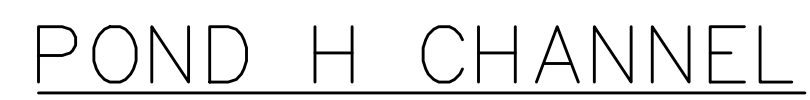
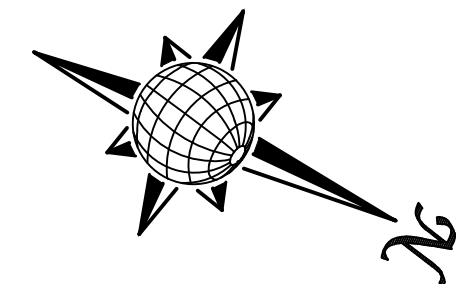
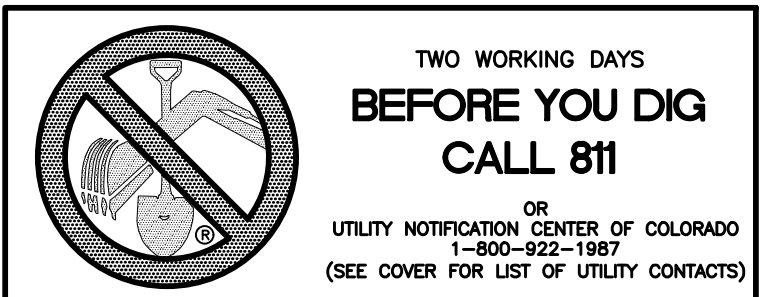
- 1)STONEBRIDGE FILING 1 AT MERIDIAN RANCH
- 2)STONEBRIDGE FILING 3 AT MERIDIAN RANCH
- 3)LONDONDERRY DRIVE/LAMBERT ROAD CONSTRUCTION DRAWINGS
- 4)STAPLETON DRIVE CONSTRUCTION DRAWINGS
- 5)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE
- 6)MERIDIAN RANCH FILING 11
- 7)VISTAS FILING 1 AT MERIDIAN RANCH



<div>Scale</div> <div>AS SHOWN</div>	<div>Drawn by</div> <div>Log</div>	<div>ROUGH GRADING WINDINGWALK AT MERIDIAN RANCH ROUGH GRADINGHEROSION CONTROL PLAN PLAN SHEET</div>	<div> MERIDIAN RANCH</div>	<div>TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457</div>										
					<div>Checked by</div> <div>TKM</div>									
						<div>Date</div>								
	<div>14 of 22</div>								No.	Revisions	Date	Instr.	Appr.	Date

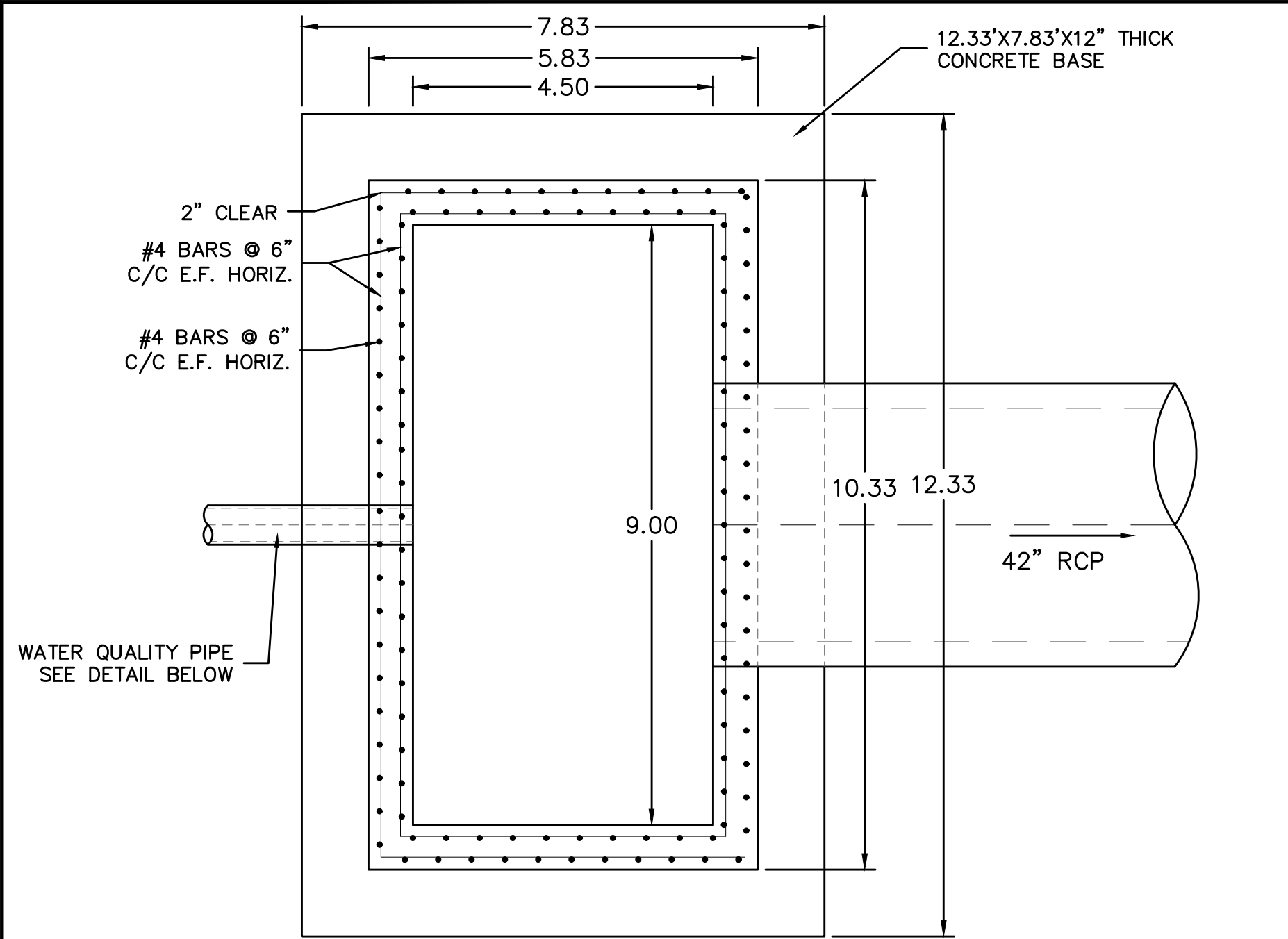


CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES.
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2)STONEBRIDGE FILING 3 AT MERIDIAN RANCH
3)LONDONDERRY DRIVE/LAMBERT ROAD
CONSTRUCTION DRAWINGS
4)STAPLETON DRIVE CONSTRUCTION DRAWINGS
5)GUTHRIE RAW WATER EXTENSION THE VISTAS
FILING 1 OFFSITE
6)MERIDIAN RANCH FILING 11
7)VISTAS FILING 1 AT MERIDIAN RANCH

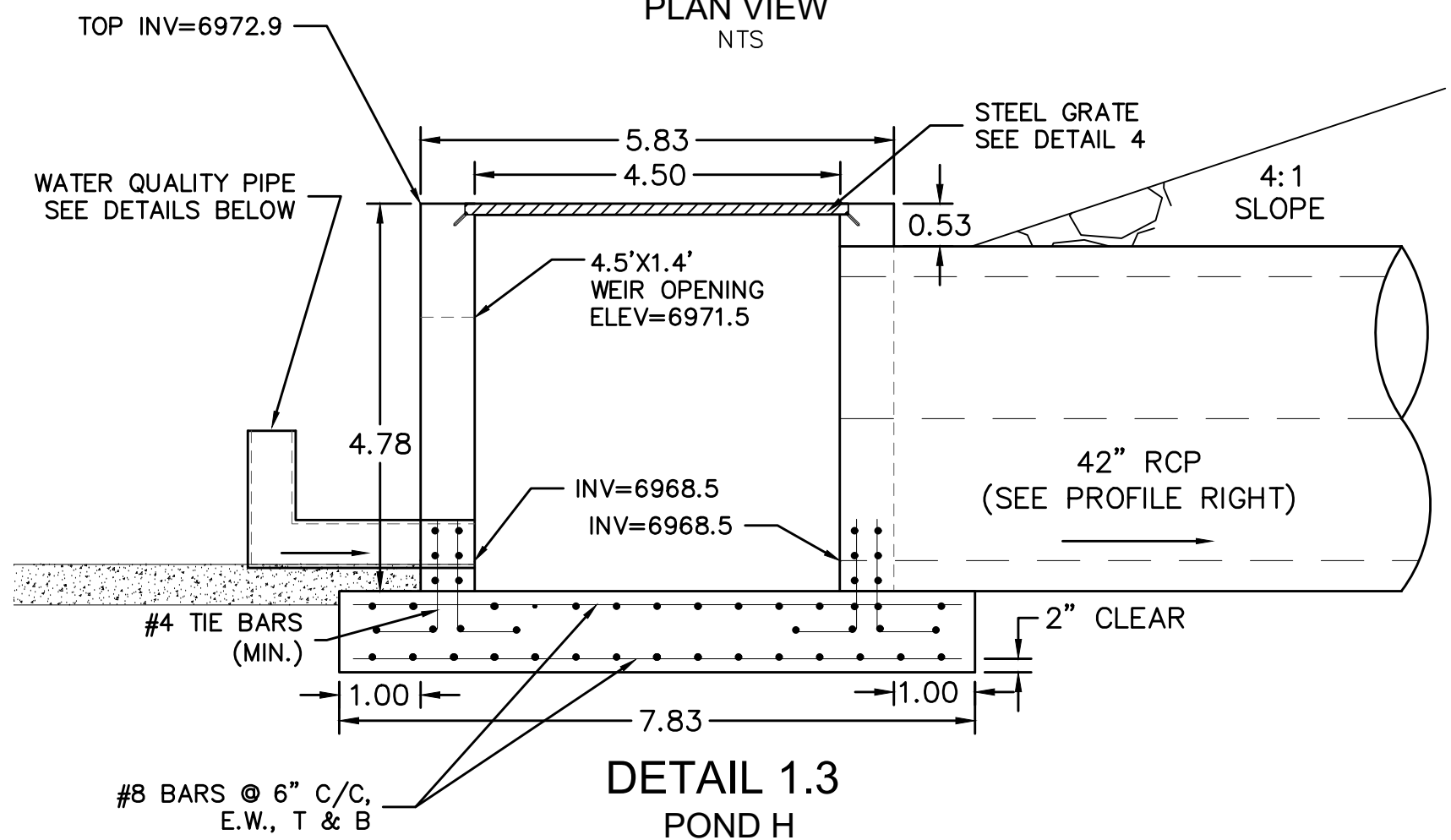


INDEX MAP
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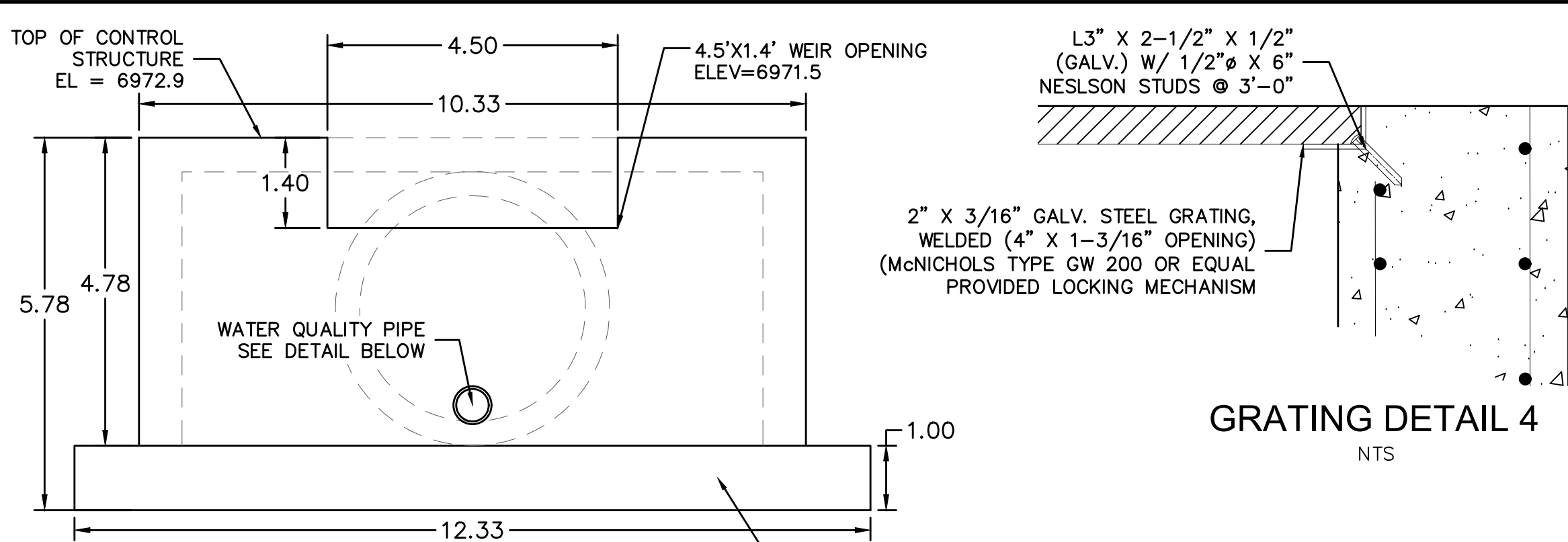
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		Loc.									
		Checked by									
		TAK									
		Date									
	16 of 22	FEB 2008				No.	Revisions	Date	Inst.	Appr.	Date



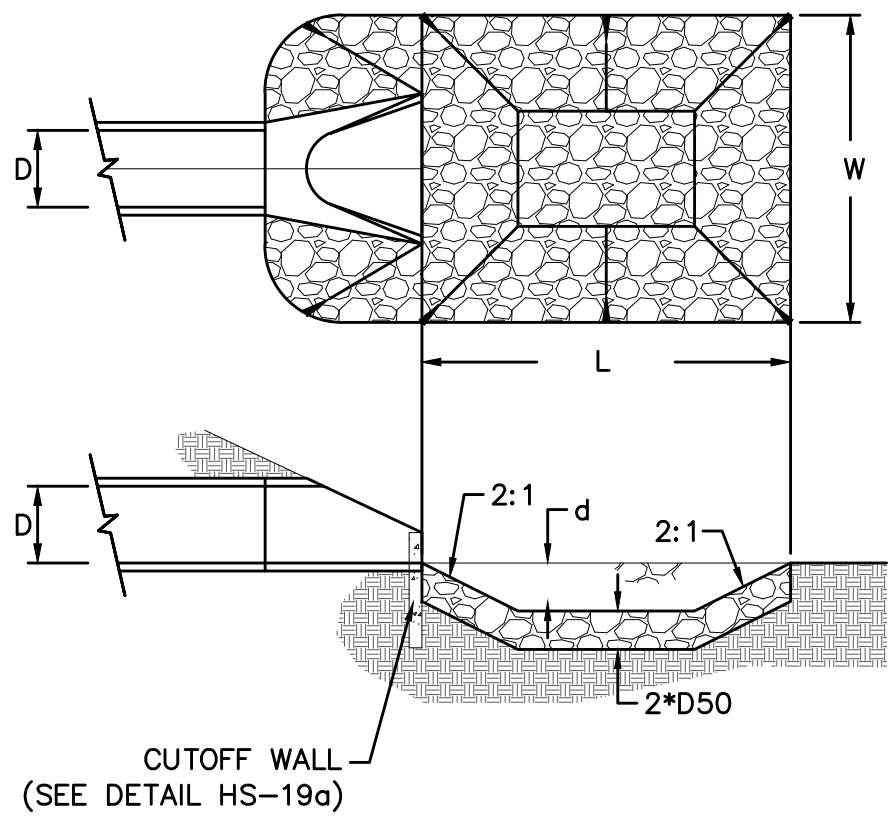
DETAIL 1.1
POND H
CONTROL STRUCTURE
PLAN VIEW
NTS



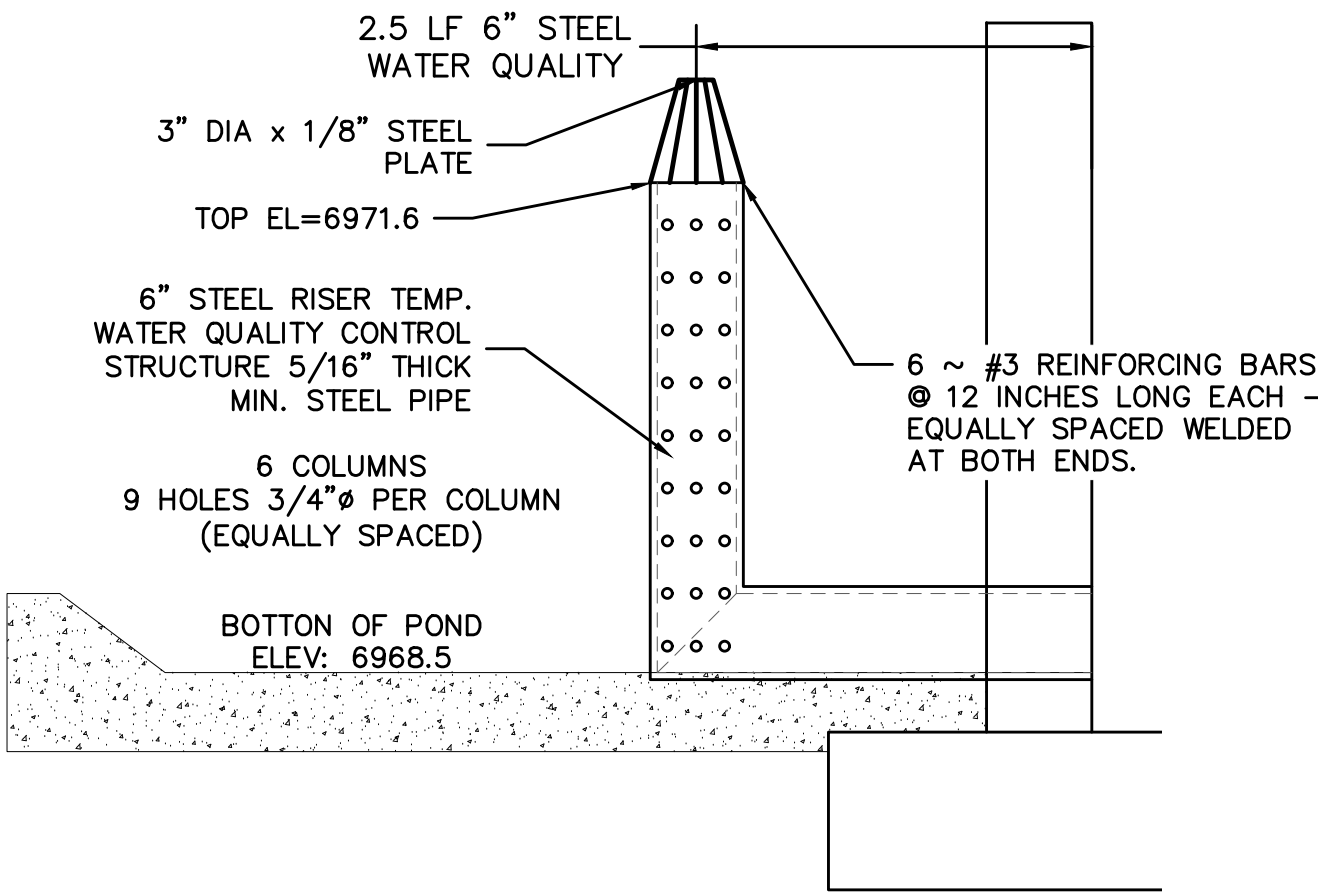
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POND H
CONTROL STRUCTURE
NTS



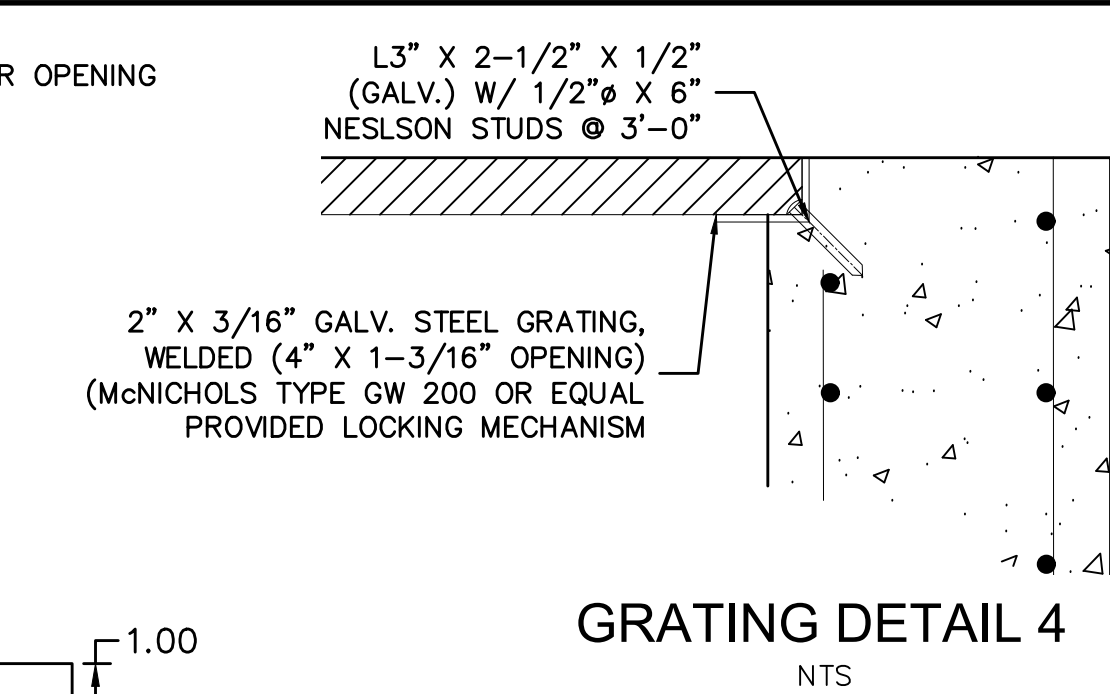
DETAIL 1.2
CONTROL STRUCTURE
NTS



DETAIL 1.4
PERM. WATER QUALITY PIPE
NTS



DETAIL 1.5
TEMP. WATER QUALITY PIPE
NTS



GRATING DETAIL 4
NTS

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

NOTES:
1. Headwall with wingwalls or flared end section required at all culvert outlets.
2. Provide joint fasteners for flared end sections.

POND H
OUTLET PROTECTION DETAIL
NTS

PIPE OUTLET	L	W	d	TYPE	D ₅₀	CY	NOTES
42"	14.0	14.0	1.5	L	0.75'	10.9	SEE SHEET 15

STORM #1

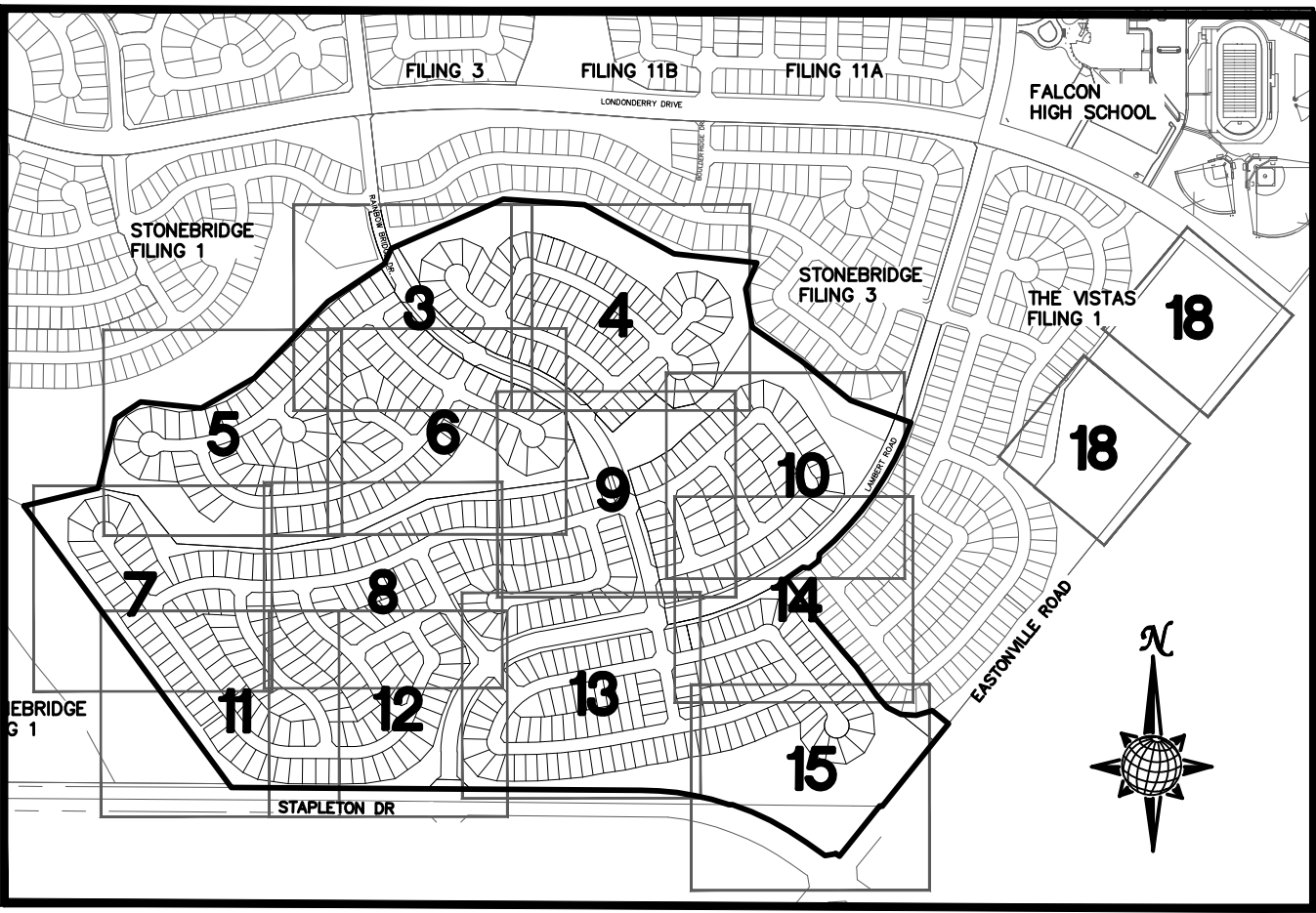
In general it is difficult to follow the references to different sheets and details on the same and other sheets. this should be made more clear. I do not see the extents of the proposed rip rap for all area where proposed (or the reviewer thinks is proposed vs existing). dimensions (HWL) should be clearly marked. Typical all sheets.

INDEX MAP N.T.S.

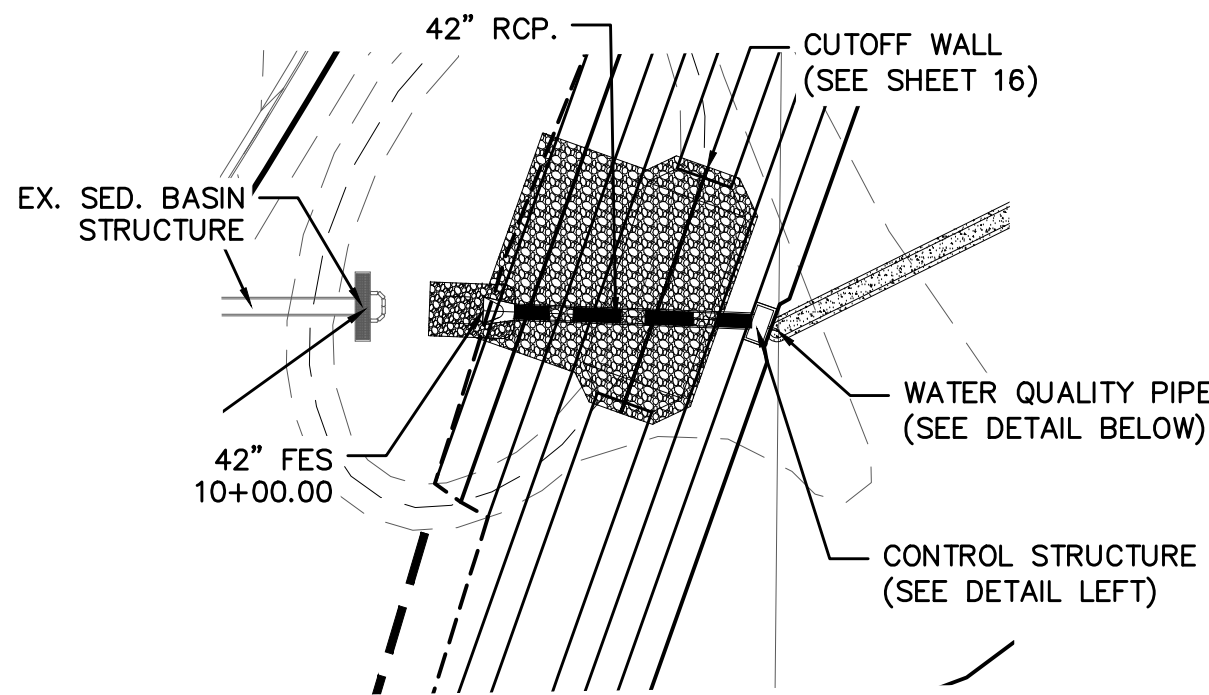
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ALL CONTOURS SHOWN WITHIN THE PLAN SET ARE TO FINISHED SURFACE. ALL STREET SECTIONS ARE TO BE GRADED TO ROUGH SUB-GRADE AS SHOWN IN THEIR RESPECTIVE TYPICAL STREET SECTION SHOWN ON SHEET 21.

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5)GUTHRIE RAW WATER EXTENSION THE VISTAS FILING 1 OFFSITE

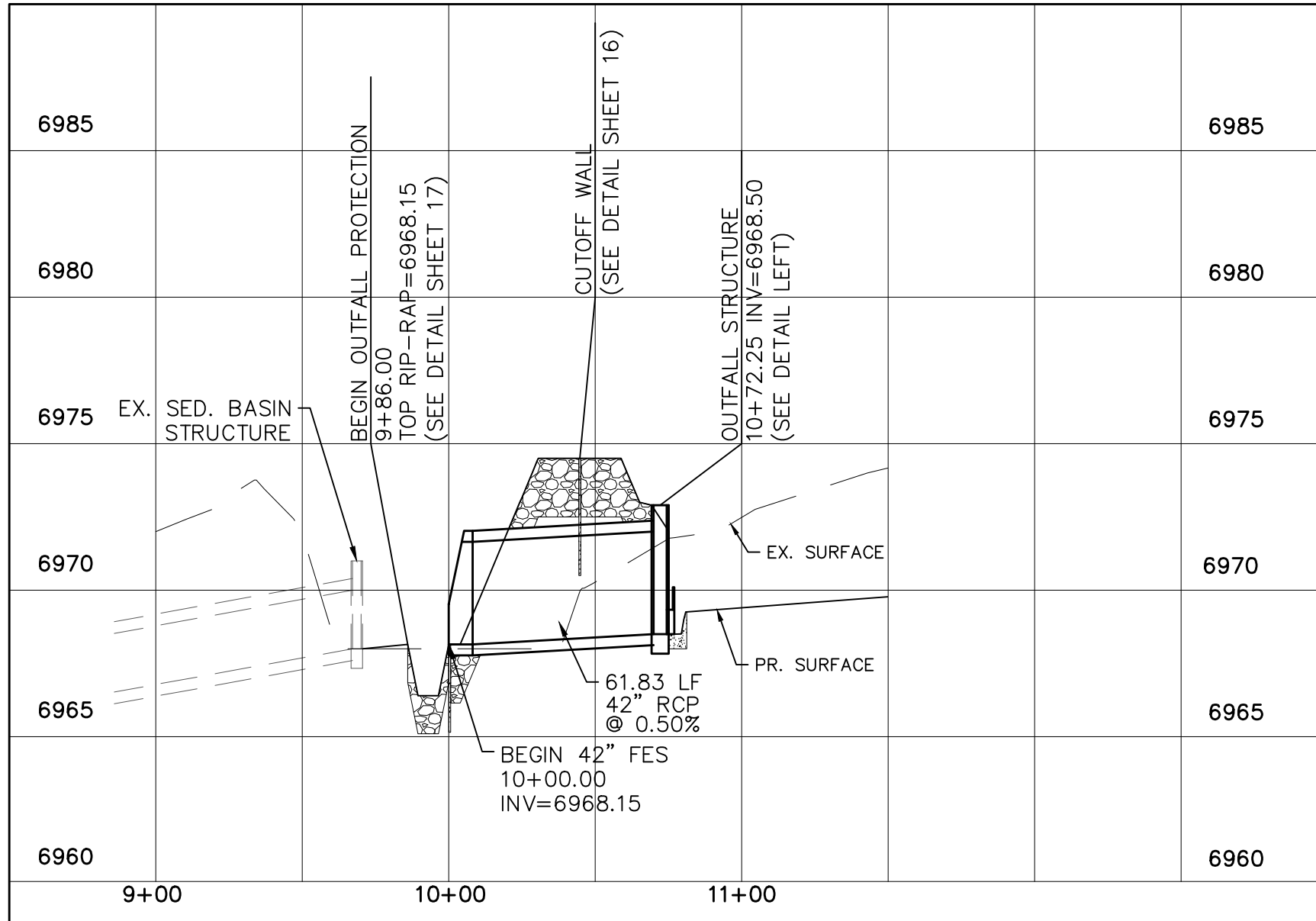
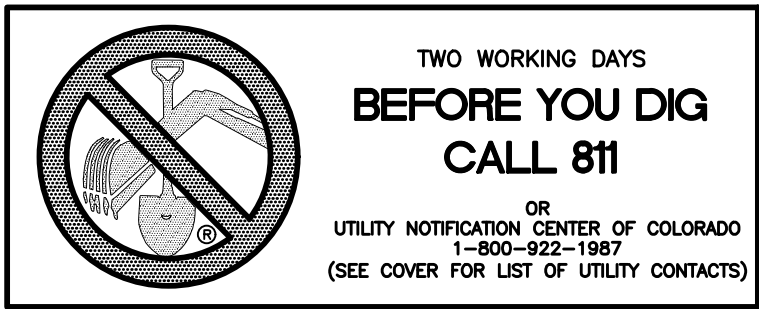
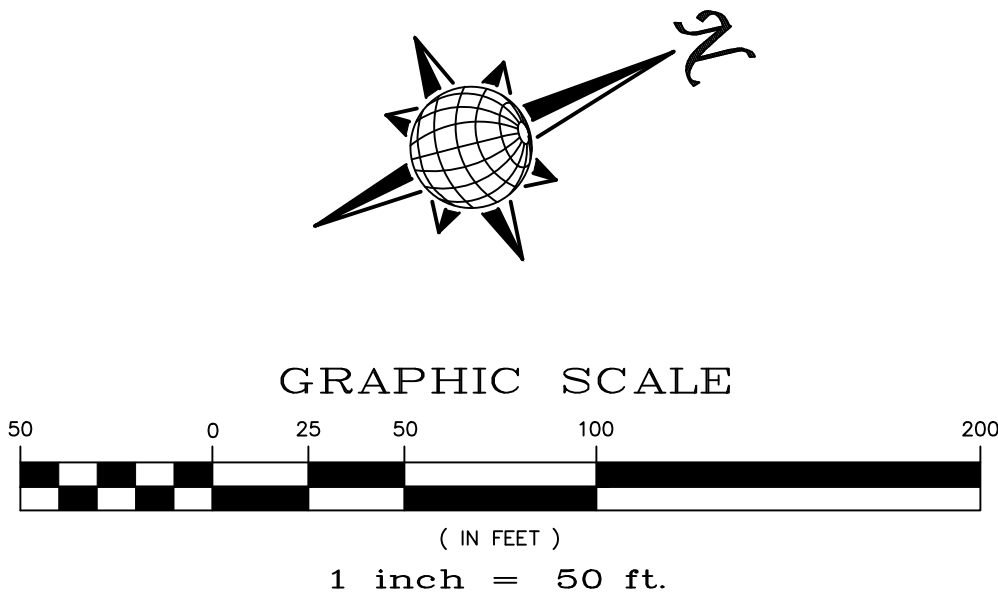
RANCH FILING 11
NG 1 AT MERIDIAN RANCH



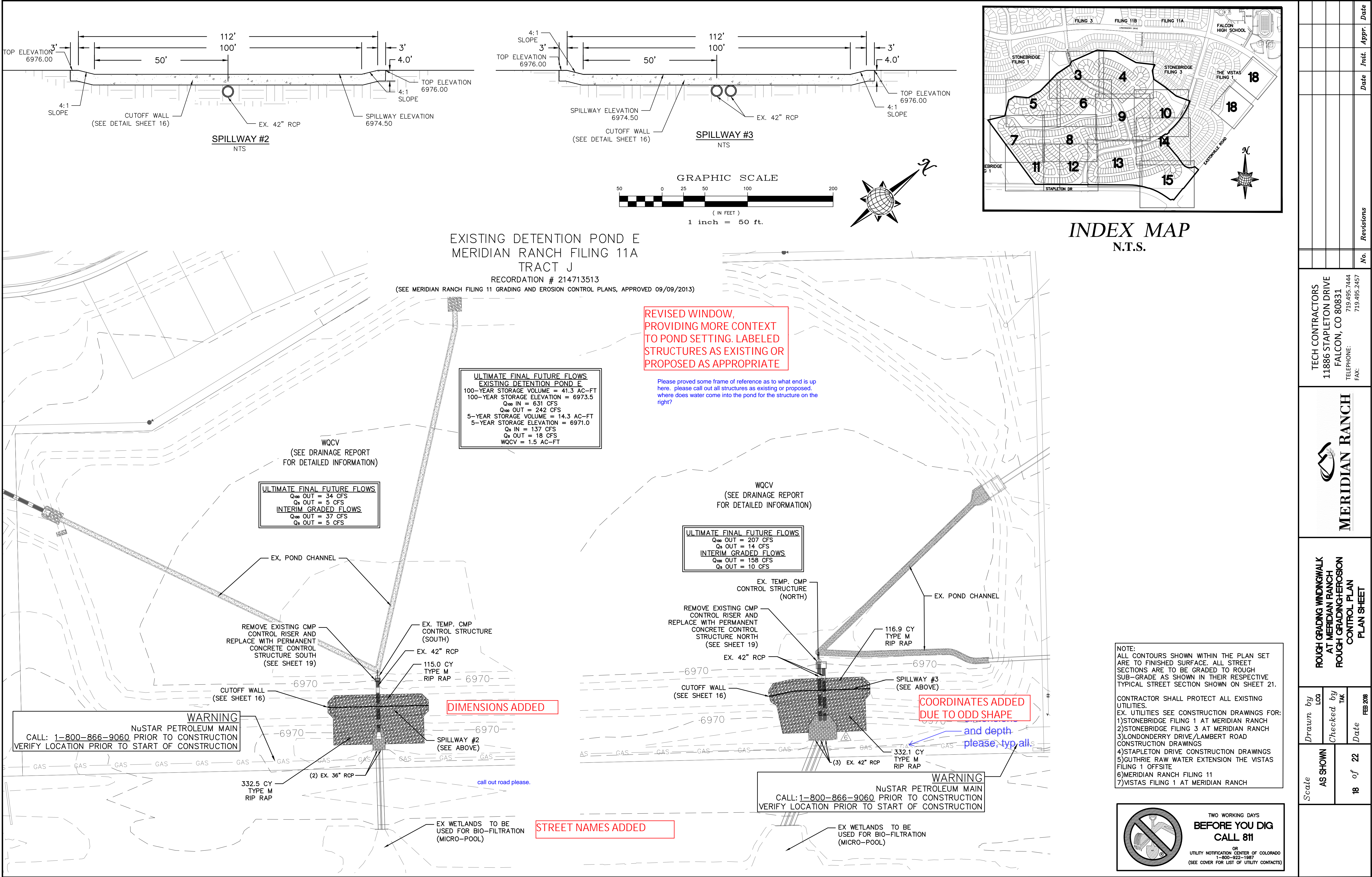
DIMENTIONS OR COORDINATES
ADDED WHERE APPROPRIATE

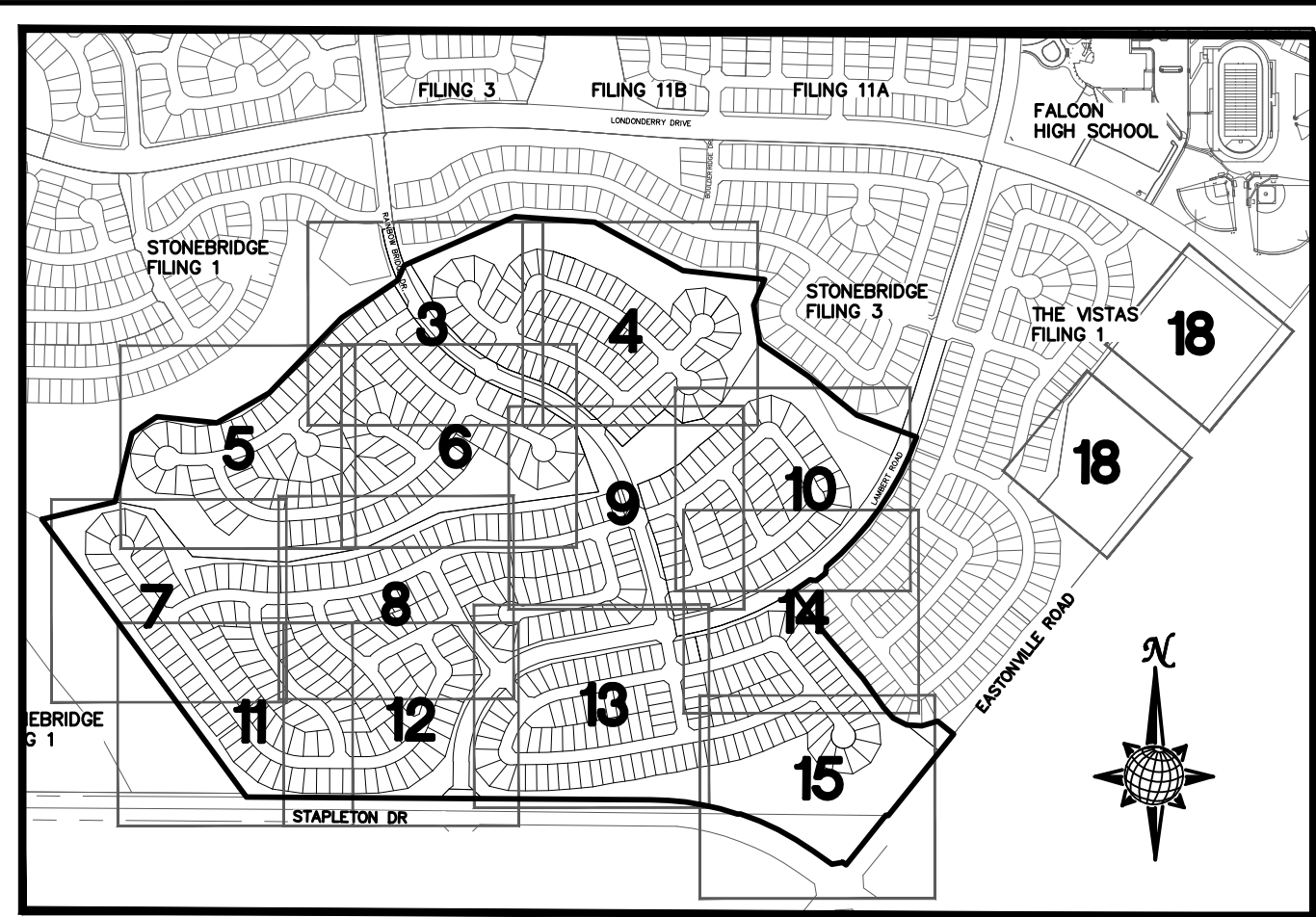
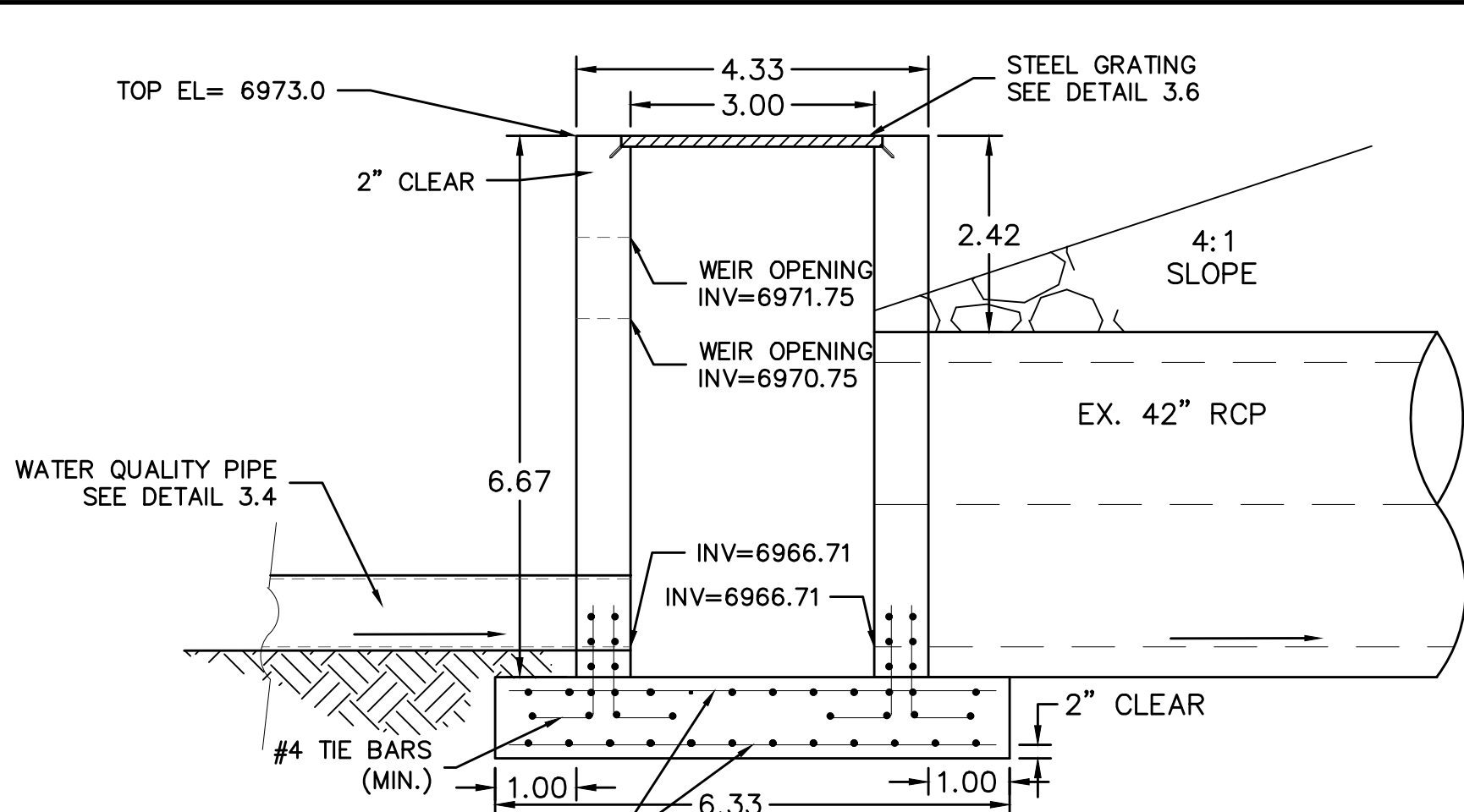
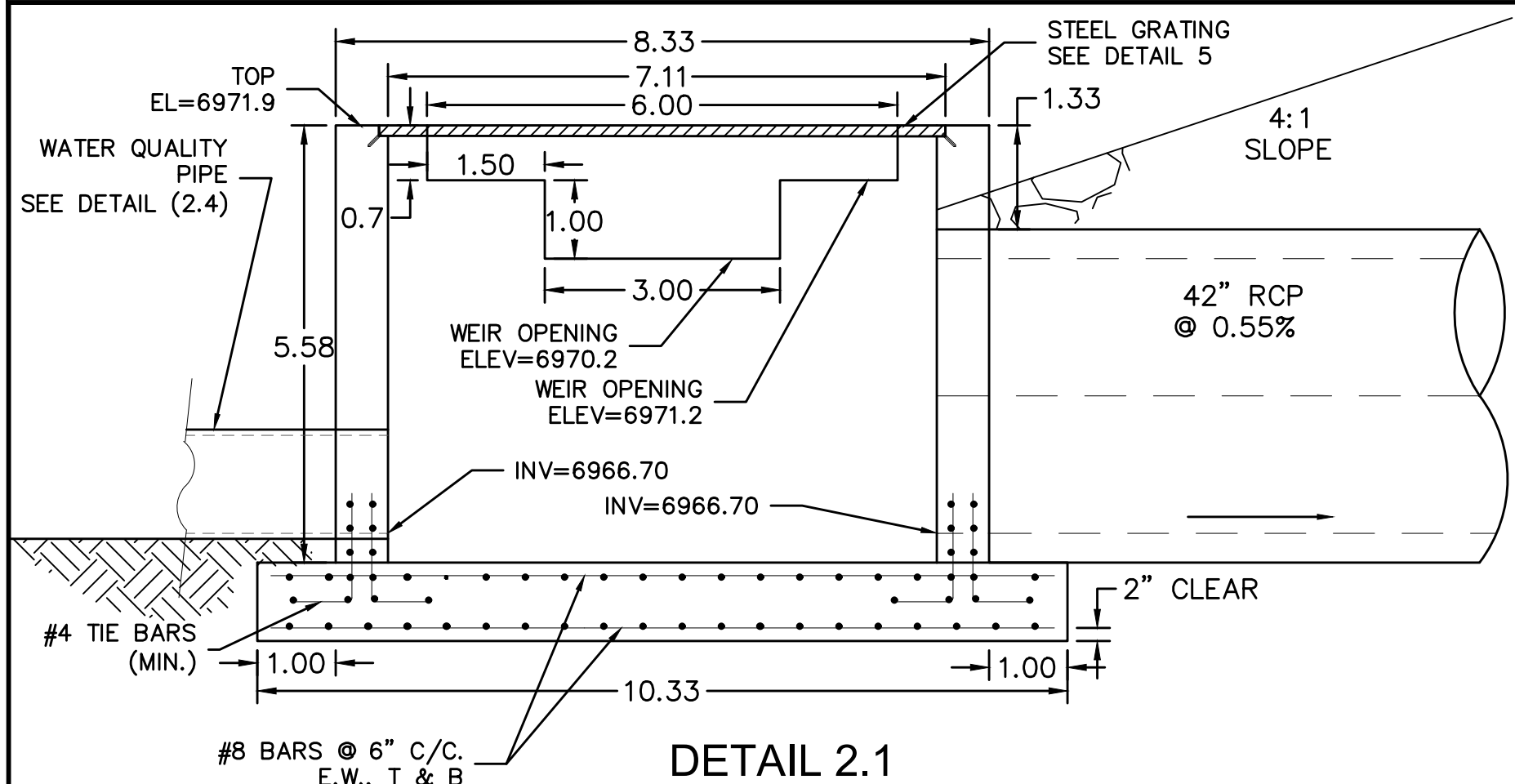


POND H OUTFALL

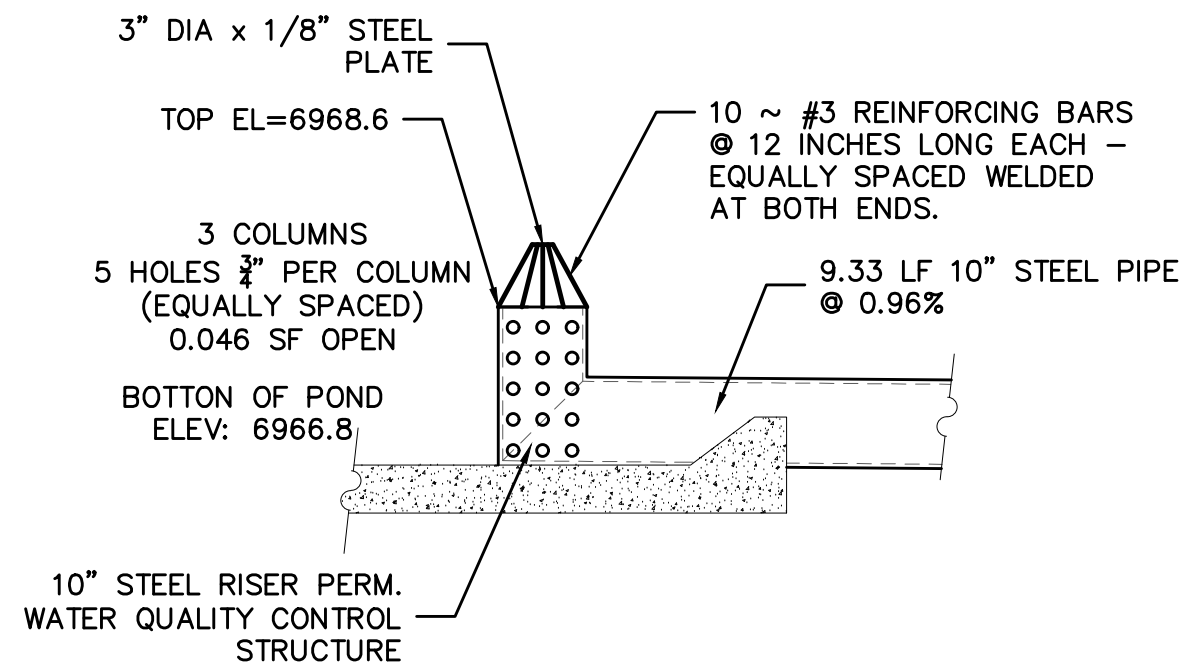
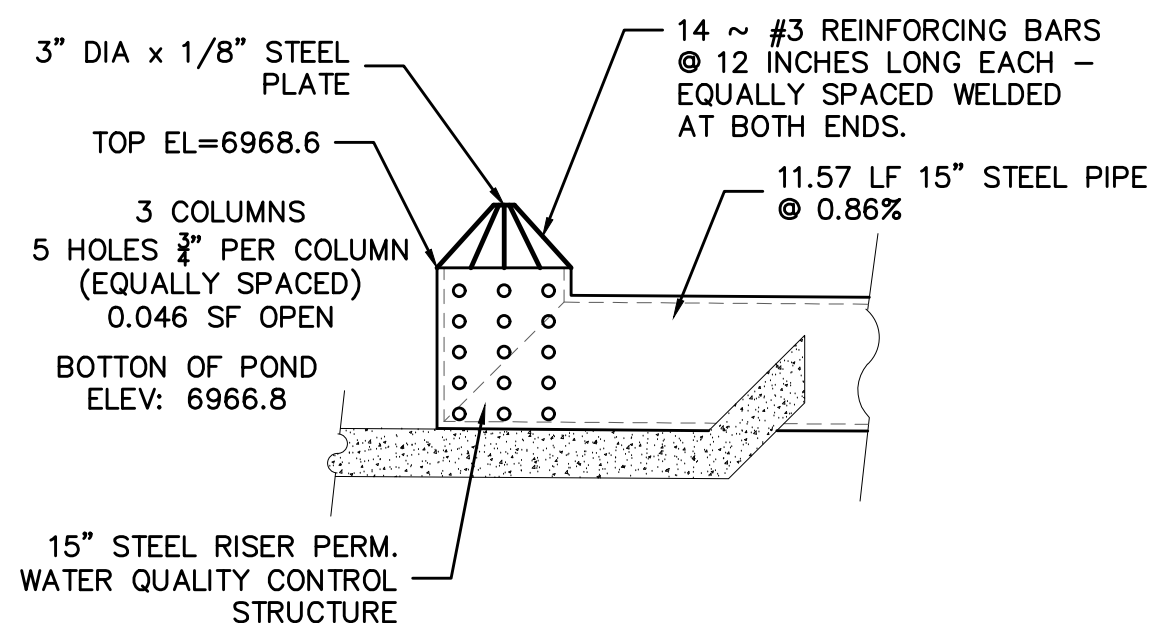
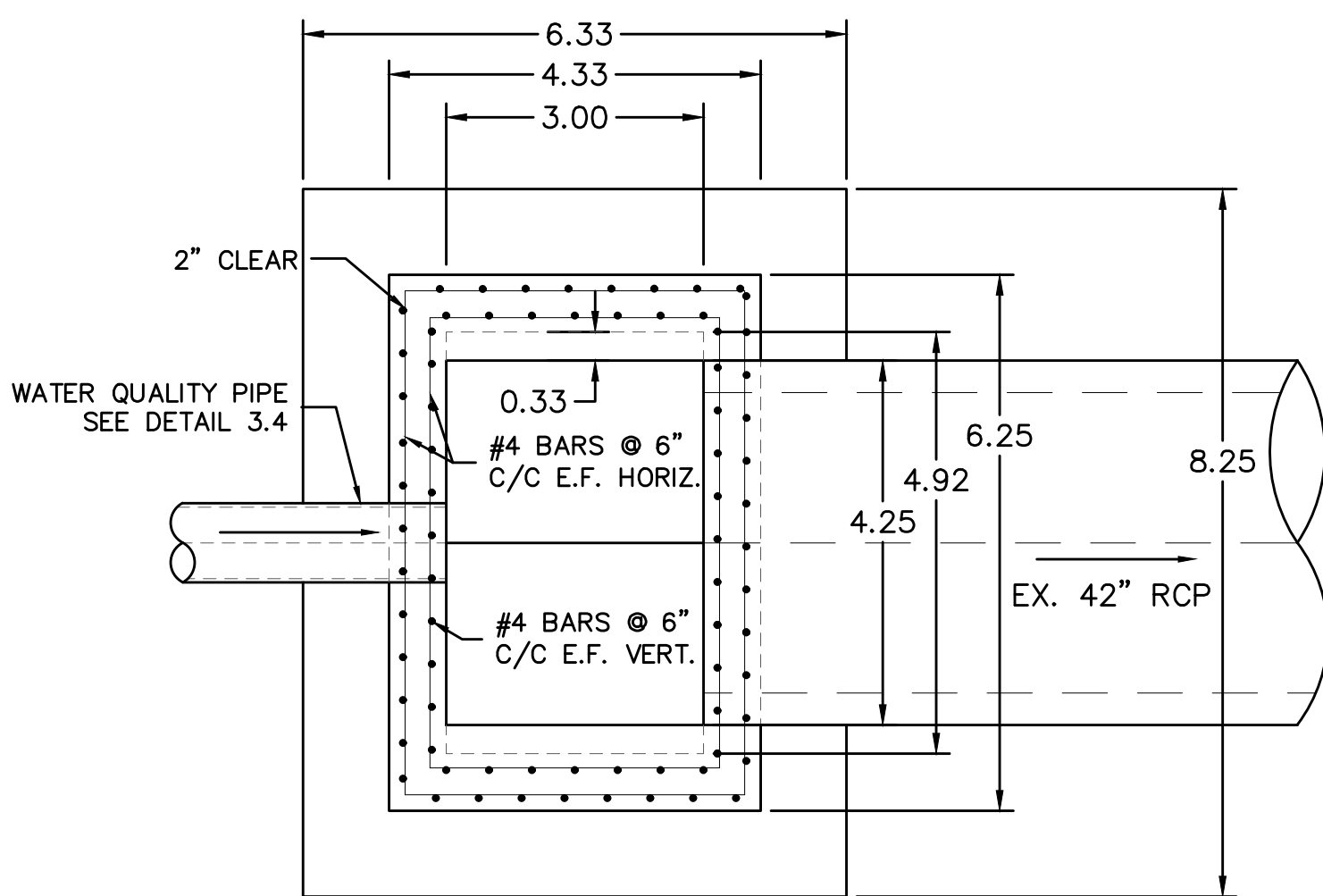
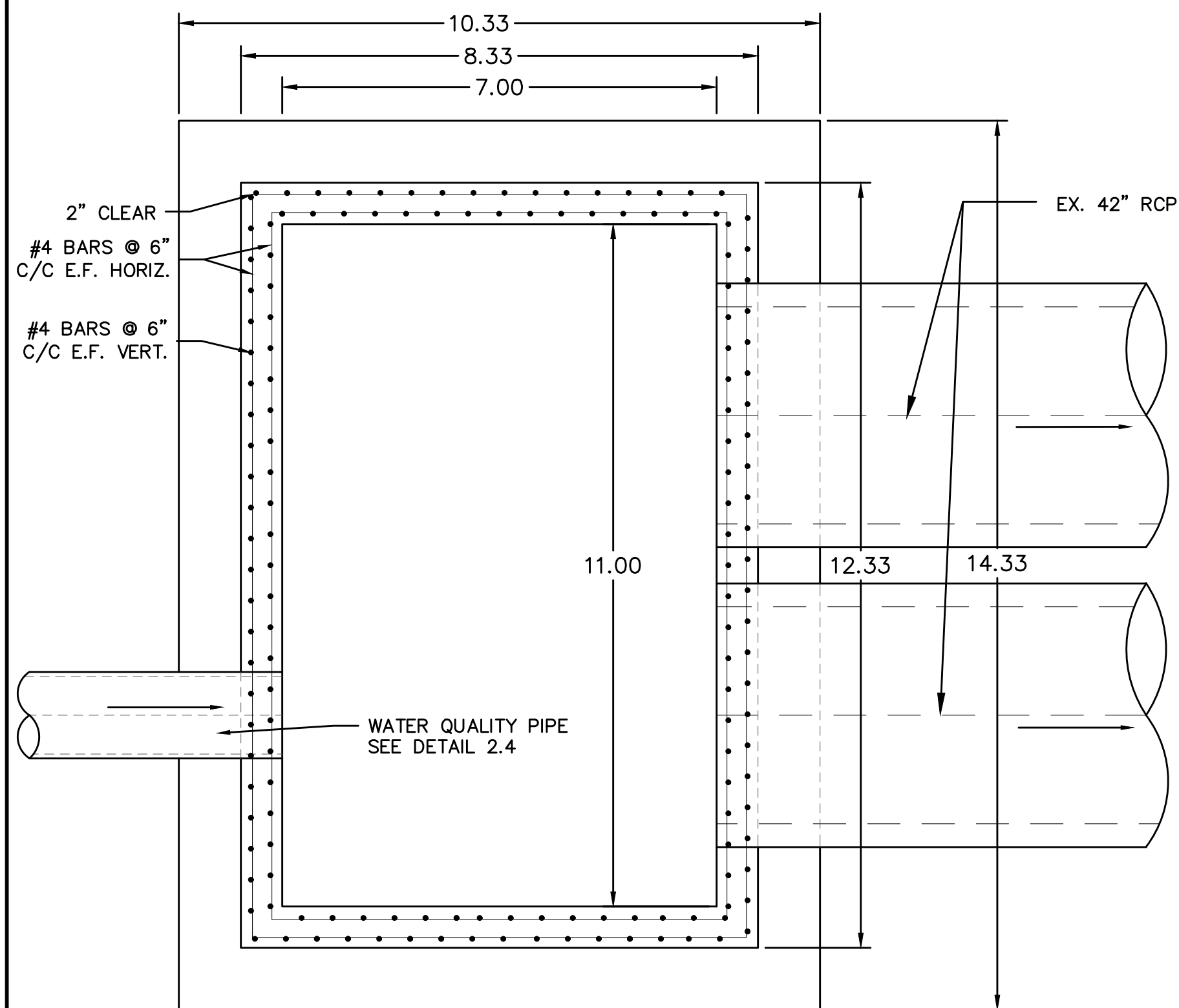


Revisions		No.	Date	Appr.	Date
TECH CONTRACTORS					
11886 STAPLETON DRIVE					
FALCON, CO 80831					
TELEPHONE: 719.495.7444					
FAX: 719.495.2457					
MERIDIAN RANCH					
ROUGH GRADING WINDINGWALK					
AT MERIDIAN RANCH					
ROUGH GRADING/EROSION					
CONTROL PLAN					
DETAIL SHEET					
Drawn by	Loc	Checked by	TAK	Date	FEB 2018
Scale	AS SHOWN	17	of	22	



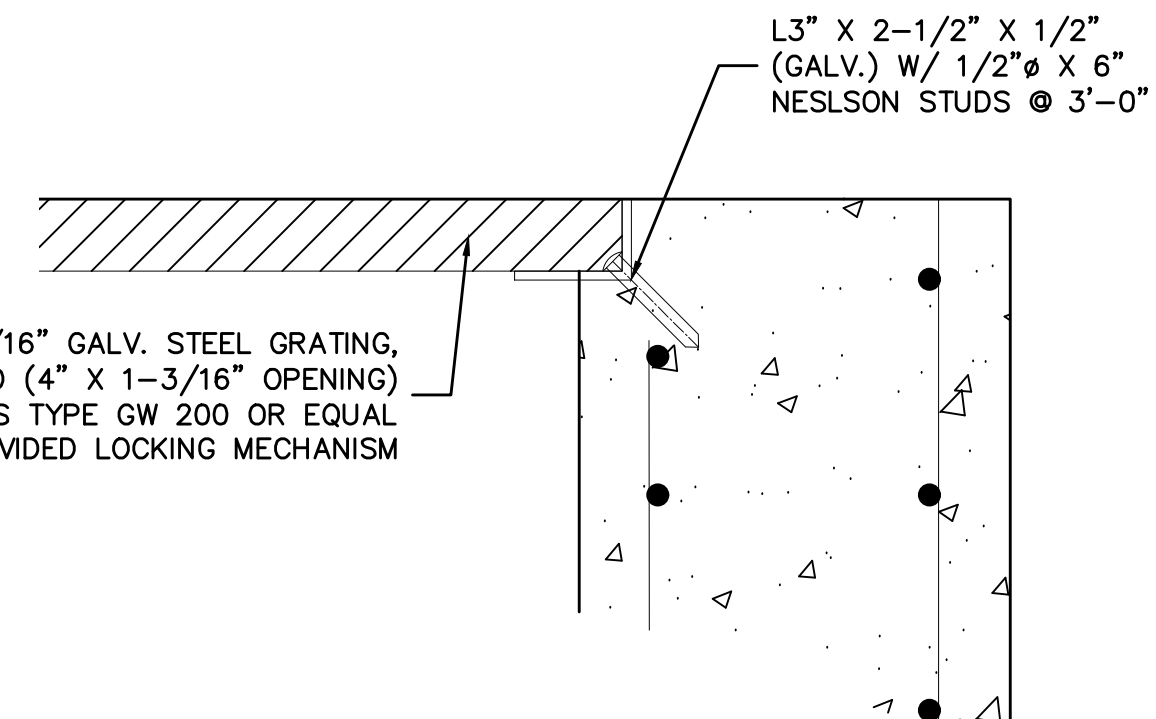
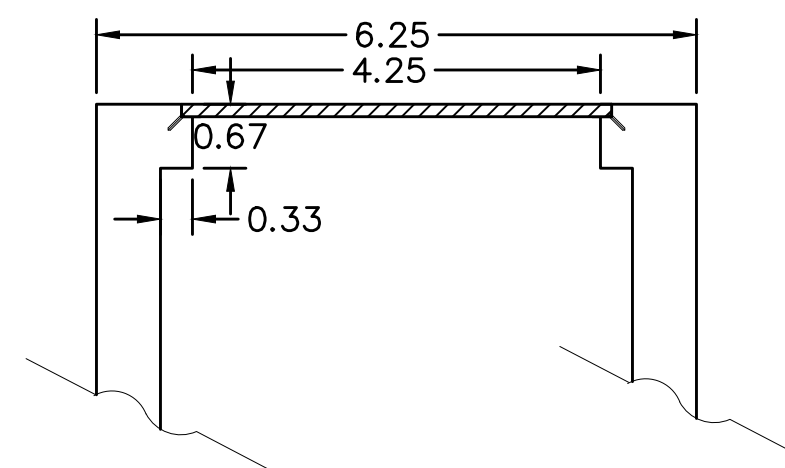
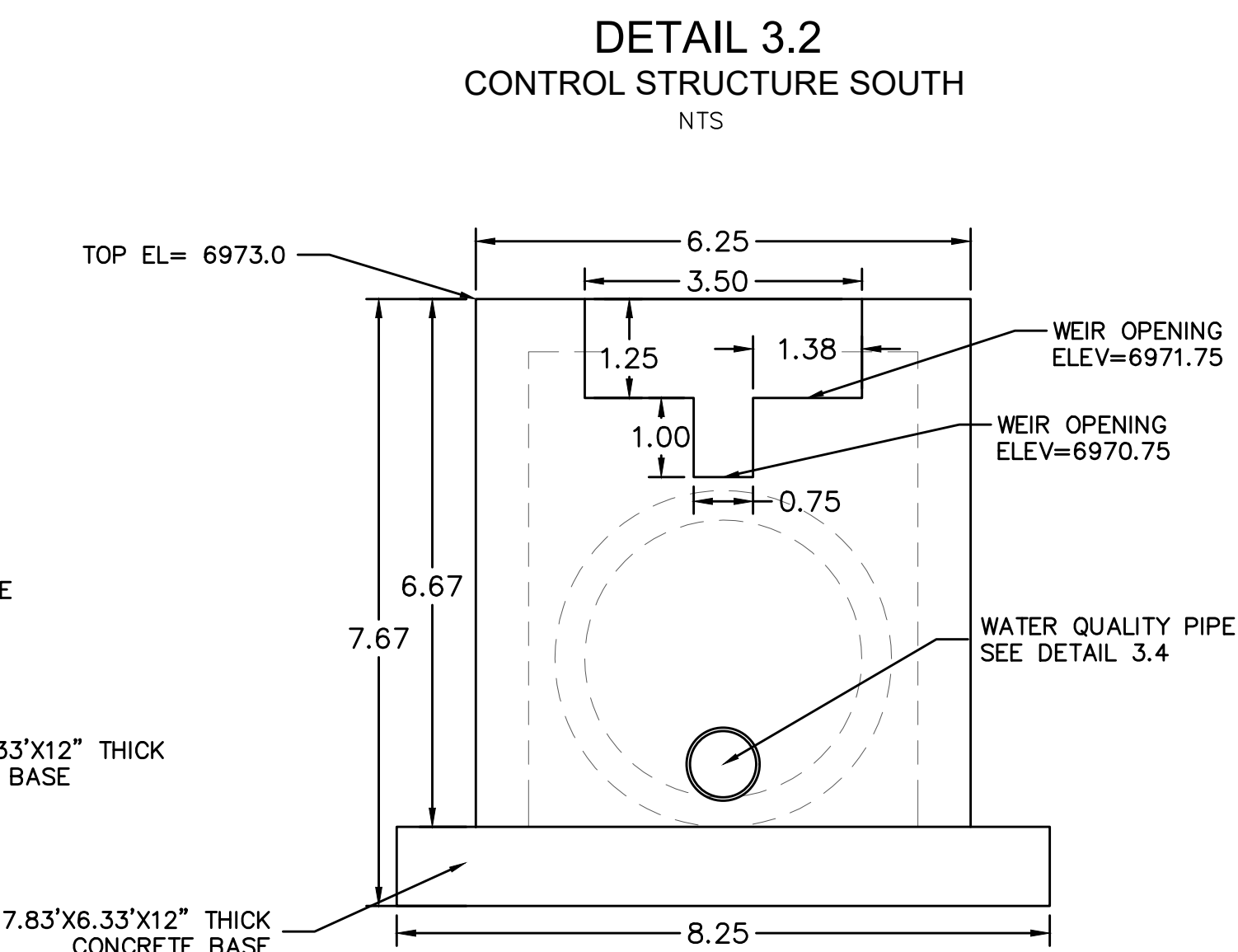
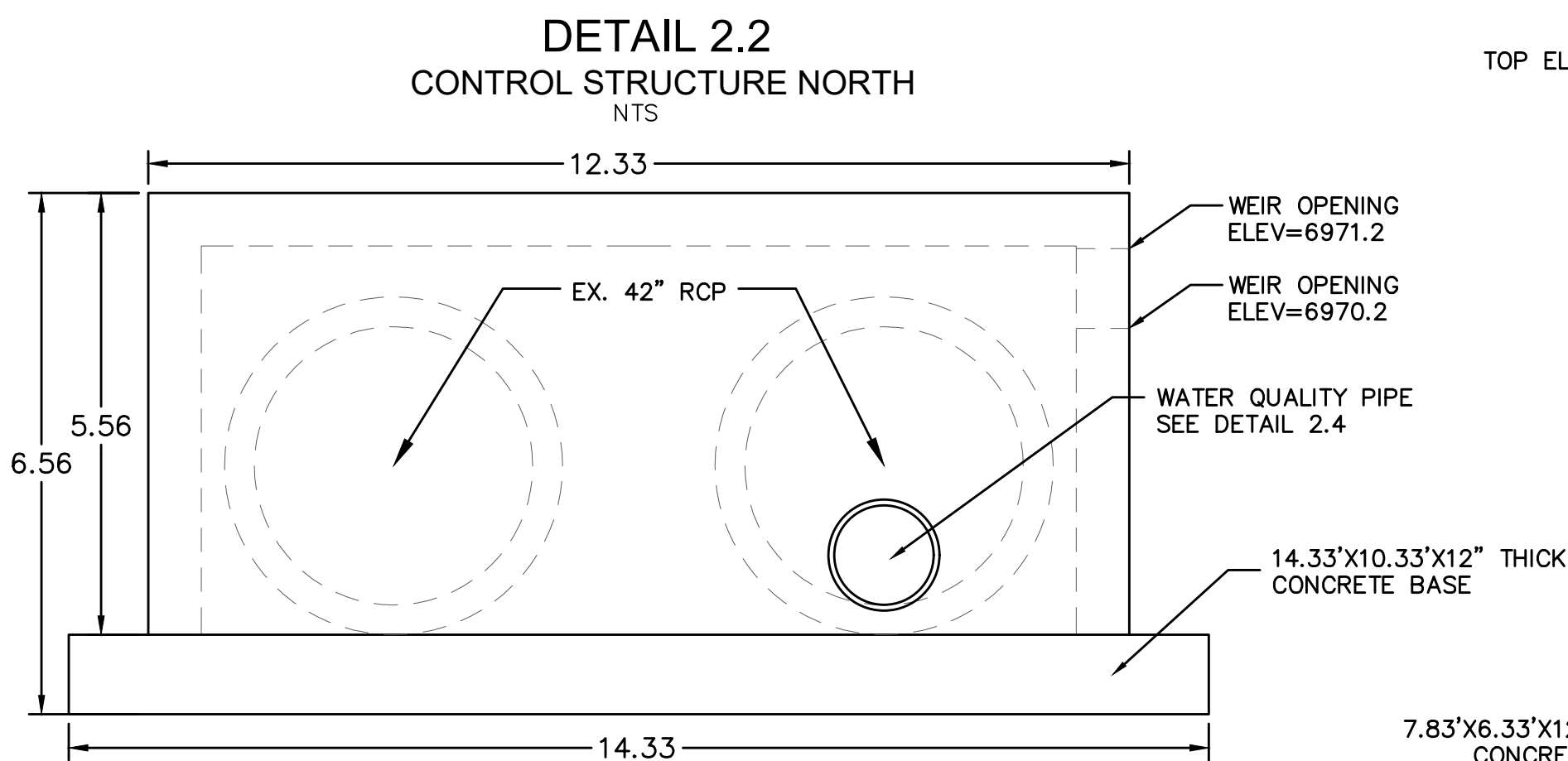


INDEX MAP
N.T.S.



DETAIL 2.4
WATER QUALITY PIPE NORTH
NTS

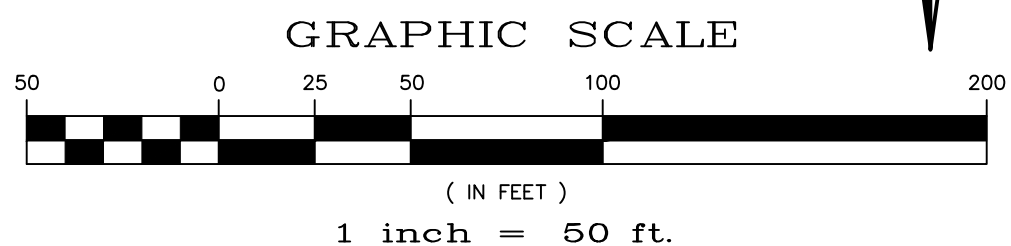
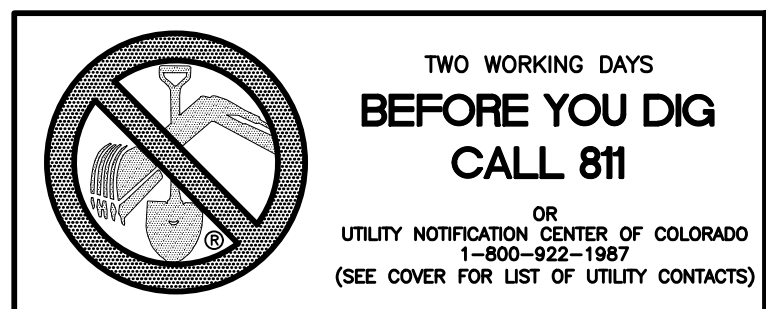
DETAIL 3.4
WATER QUALITY PIPE SOUTH
NTS



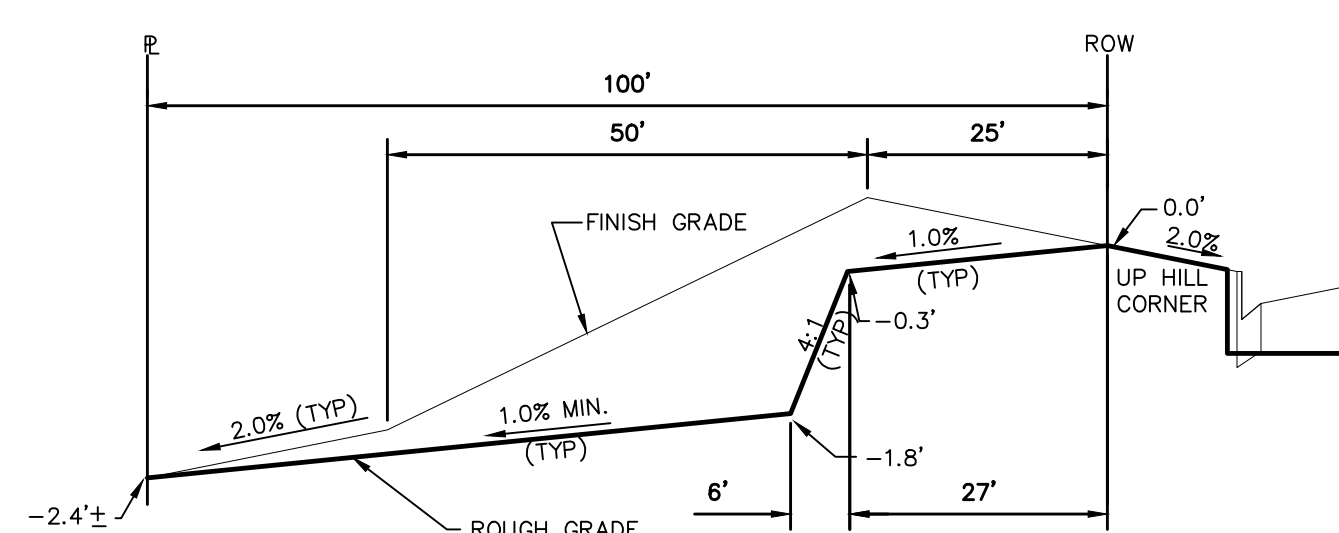
DETAIL 3.5
CONTROL STRUCTURE SOUTH
NTS

DETAIL 3.6
GRATING DETAIL
NTS

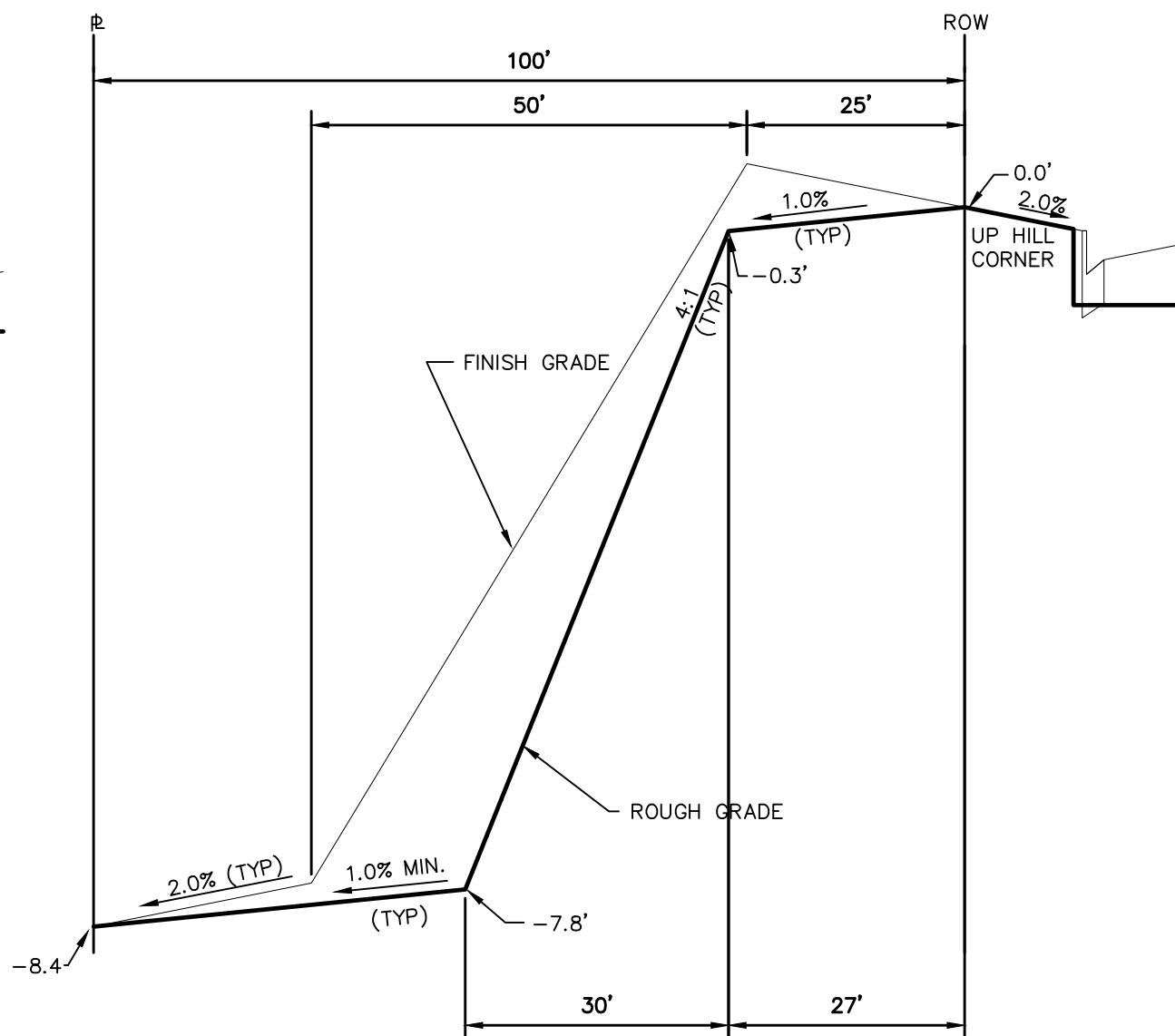
CONCRETE CONTROL STRUCTURES FOR EXISTING DETENTION POND E ORIGINALLY APPROVED WITH MERIDIAN RANCH FILING 11A GRADING AND EROSION CONTROL PLANS DATED 09/09/2013. STRUCTURES MODIFIED FROM ORIGINAL DESIGN TO ACCOMMODATE THE UPDATED HYDROLOGIC MODELS ASSOCIATED WITH THE ADOPTION OF PORTIONS OF THE CITY OF COLORADO SPRINGS' 2014 DRAINAGE CRITERIA MANUAL



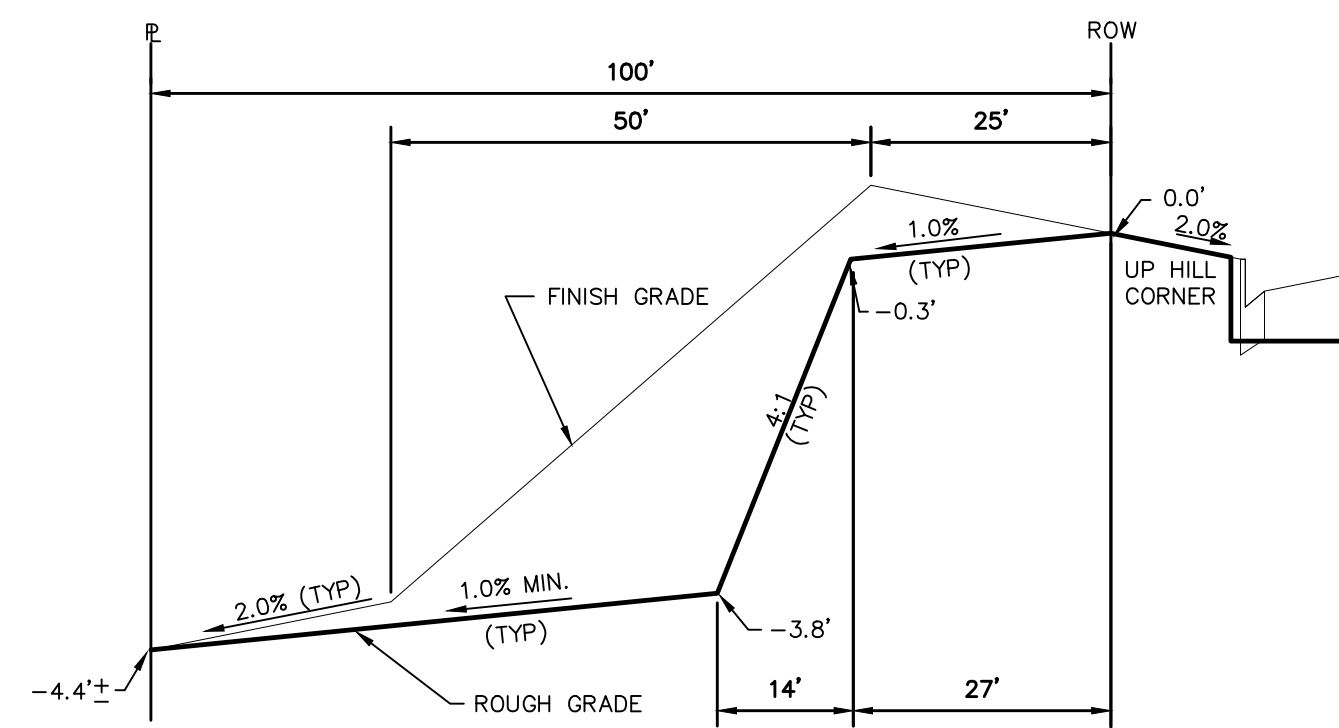
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11886 STAPLETON DRIVE					
FALCON, CO 80831					
TELEPHONE: 719.495.7444					
FAX: 719.495.2457					
MERIDIAN RANCH					
ROUGH GRADING WINDINGWALK					
AT MERIDIAN RANCH					
ROUGH GRADING/EROSION					
CONTROL PLAN					
DETAIL SHEET					
Drawn by	Loc	Checked by	TAK	Date	FEB 2018
Scale	AS SHOWN	19	of	22	



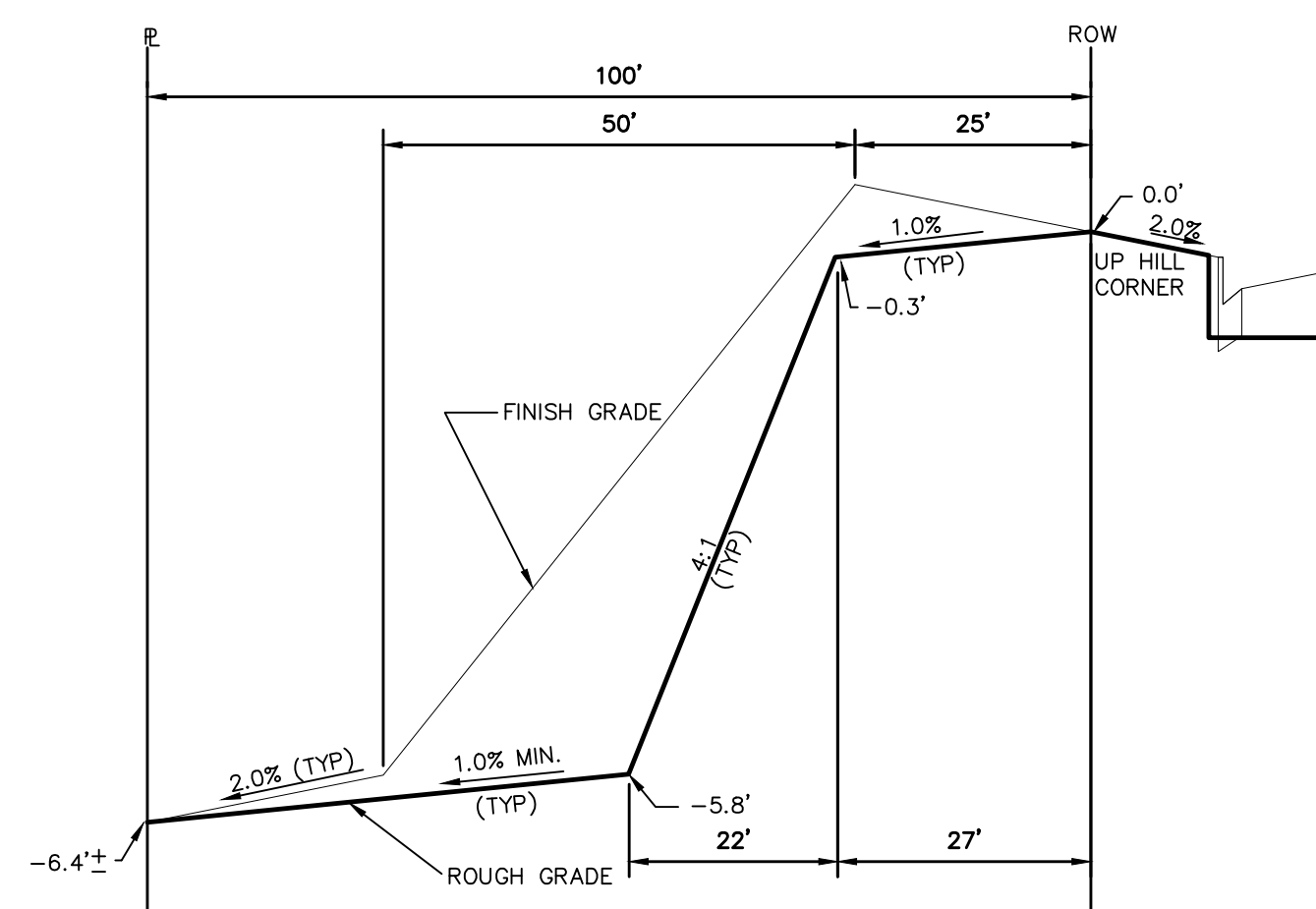
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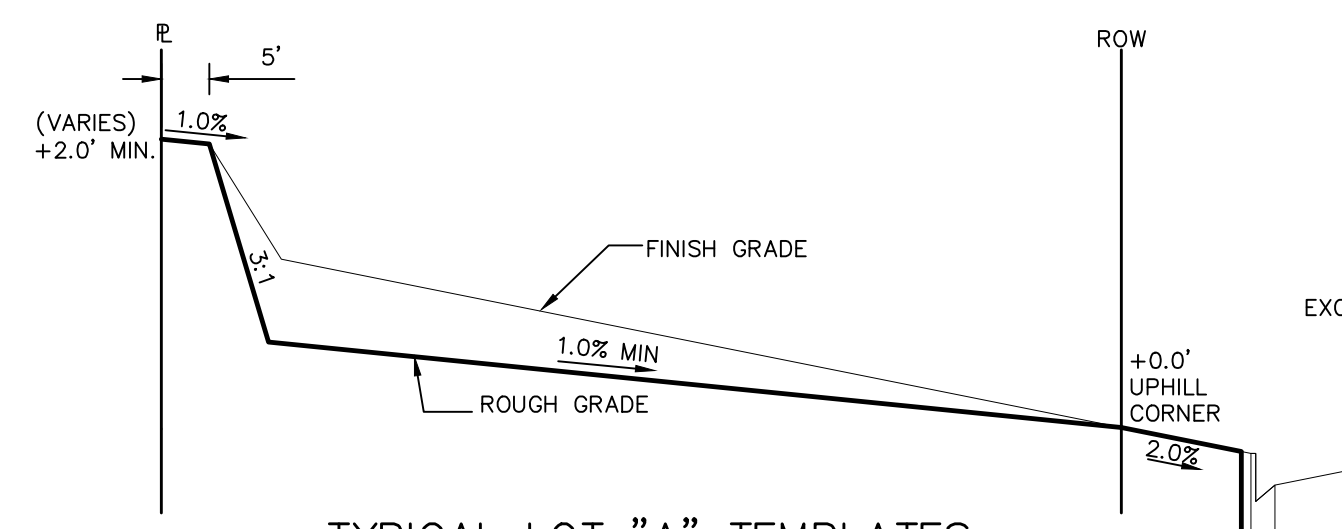
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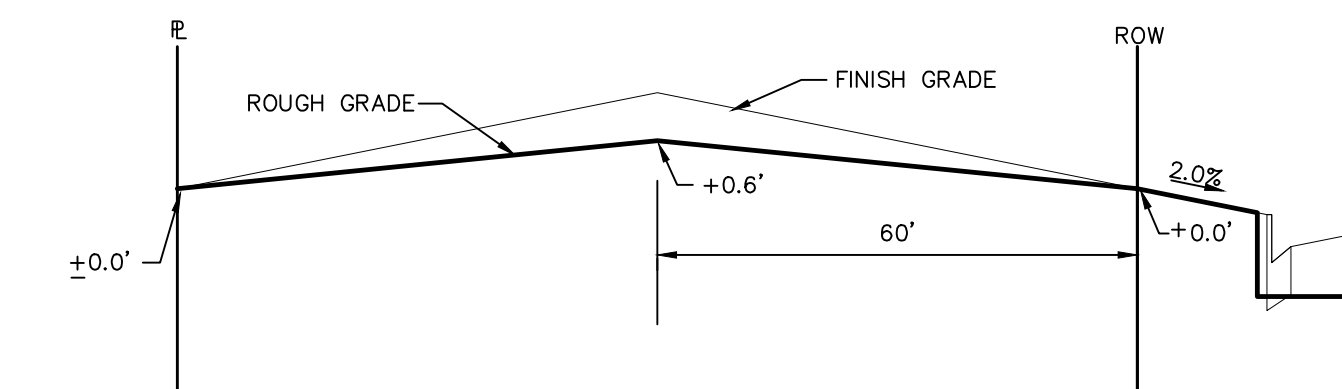
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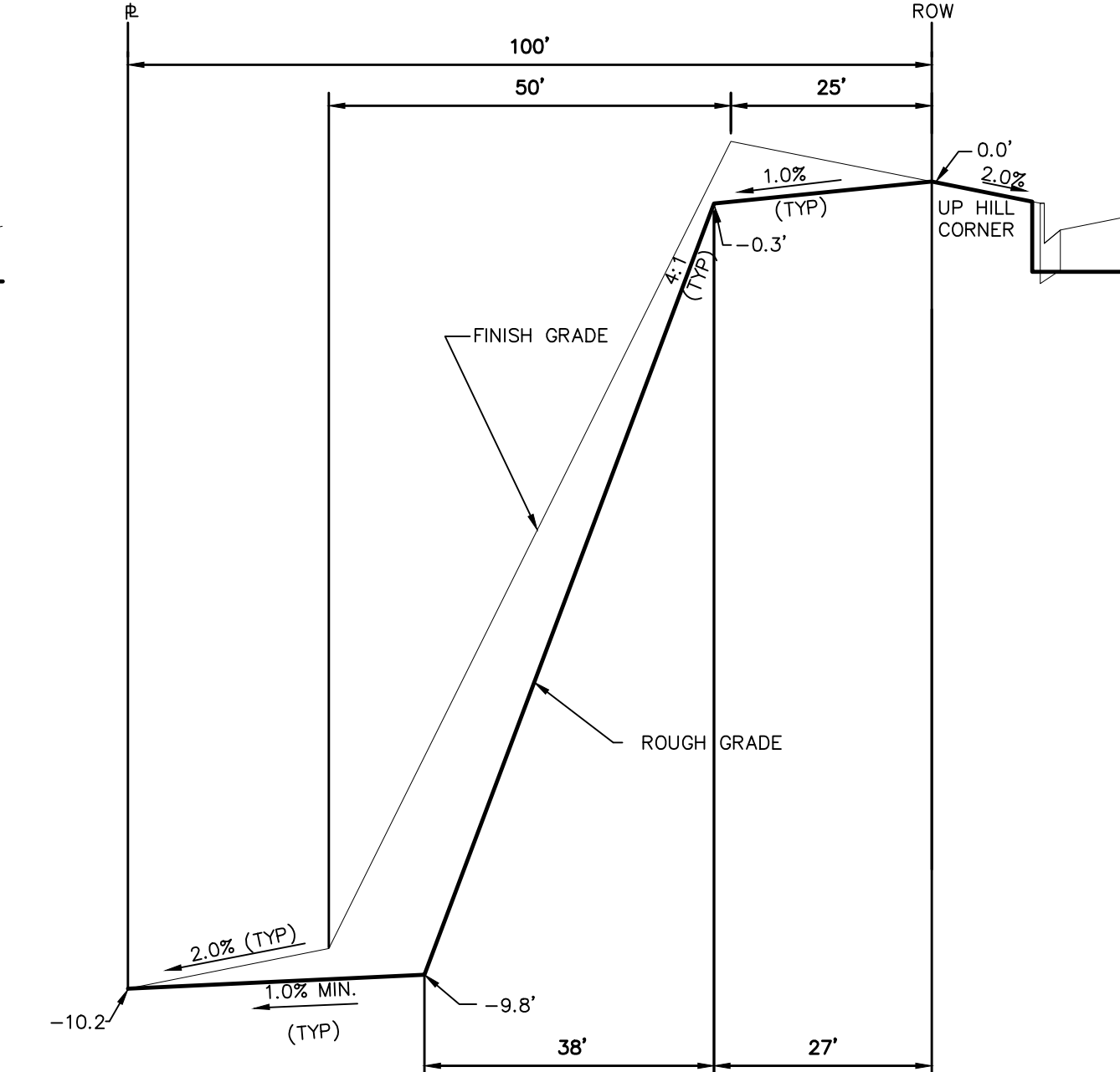
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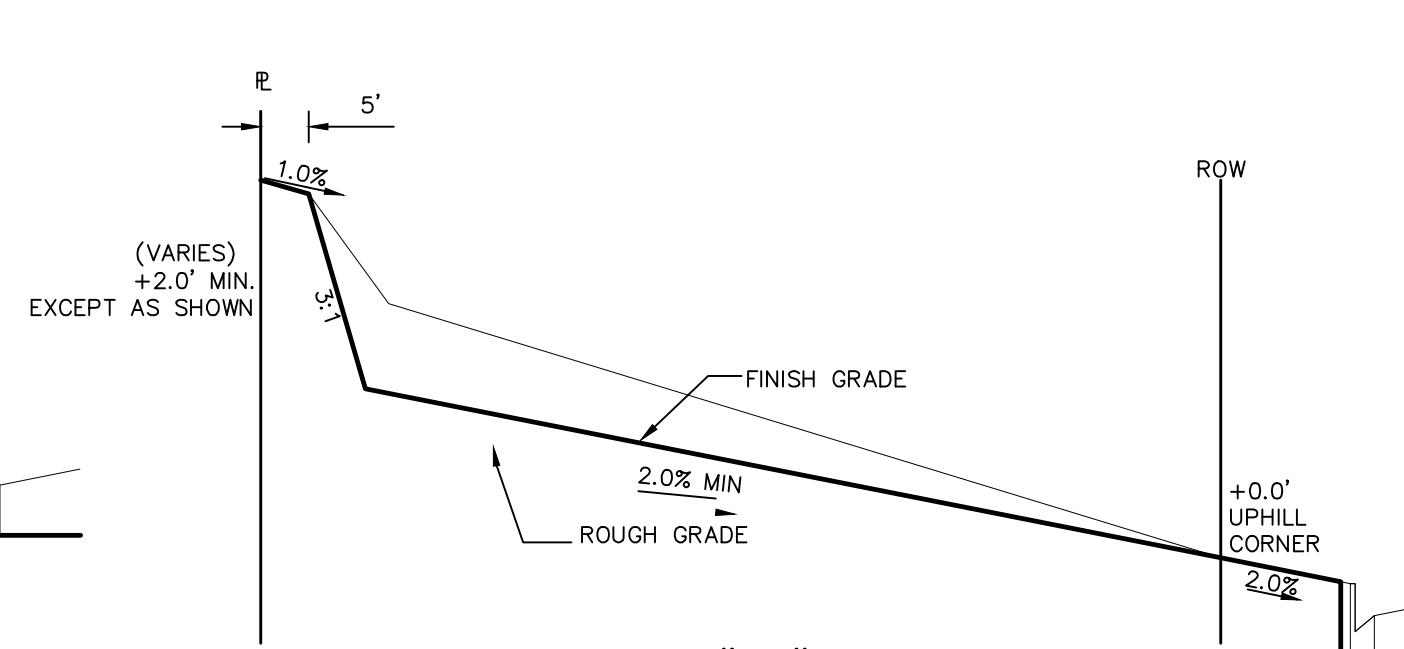
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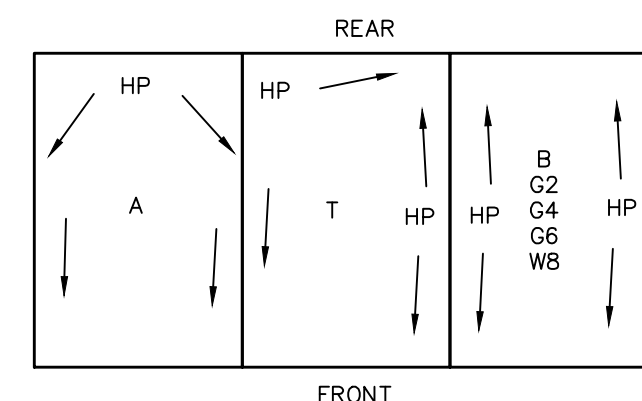
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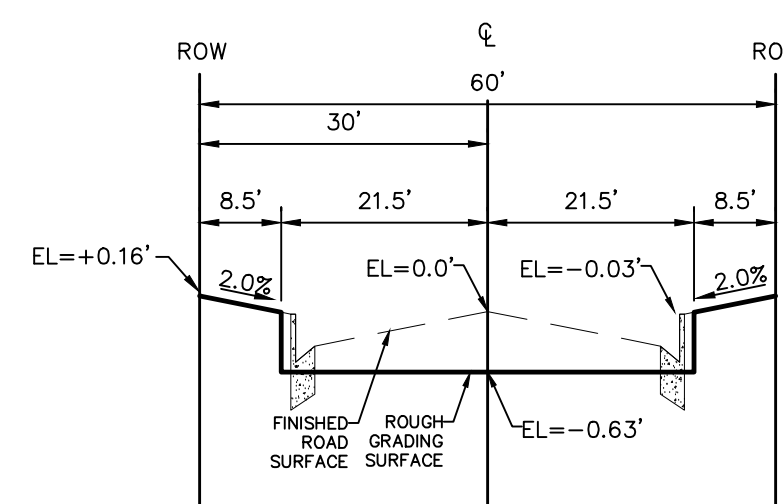
TYPICAL LOT "W10" TEMPLATES
NTS



TYPICAL LOT "A*" TEMPLATES
NTS



TYPICAL DRAINAGE PATTERN
NTS



TYPICAL RAINBOW BRIDGE STREET SECTION

STEPS FOR CONSTRUCTION

THE ANTICIPATED START FOR THIS PROJECT IS NOVEMBER 2017 WITH AN ANTICIPATED COMPLETION DATE OF JUNE 2018. 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, FILTREX OR APPROVED EQUAL WILL BE INSTALLED AROUND THE OUTLET AND OVERTFLOW 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.

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 FILTER CAN BE REMOVED. AFTER ALL GROUND DISTURBING ACTIVITIES HAVE 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-SEEDING 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 ANY DAMAGED OR WEAR PARTS OR THE WHOLE FENCE SHALL BE 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.

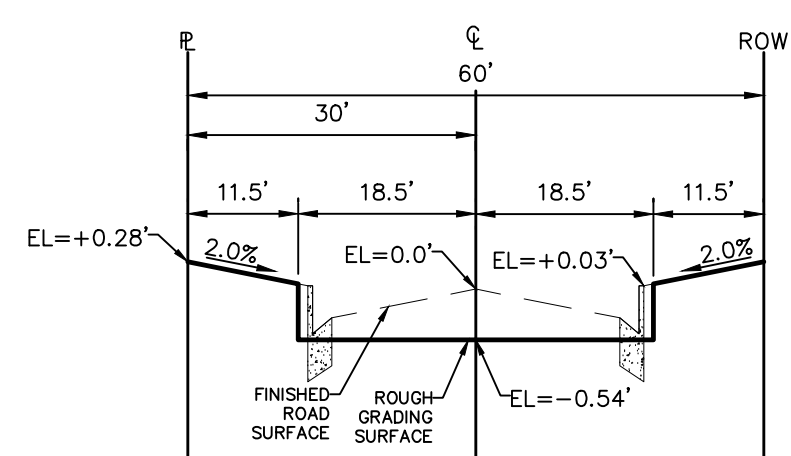
AN INSPECTION AND MAINTENANCE LOG FOLLOWS THIS STORMWATER MANAGEMENT PLAN.

REVEGETATION AND SEEDING

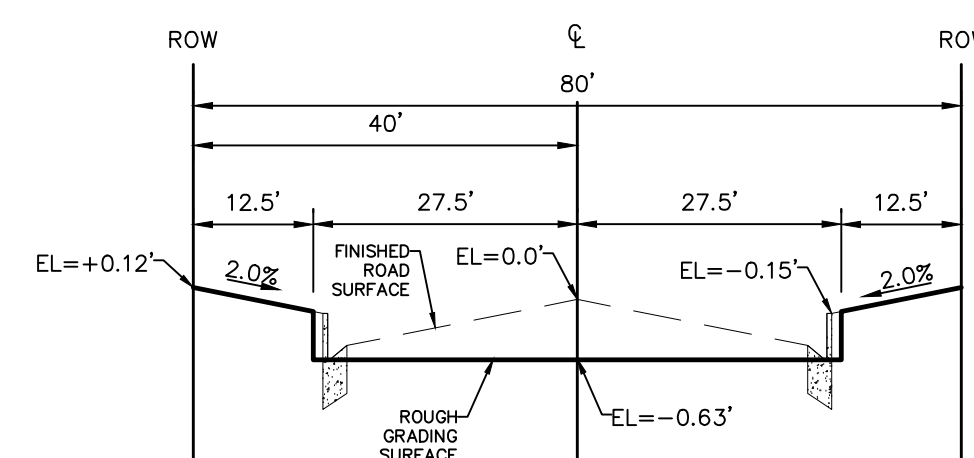
ALL DISTURBED AREAS SHALL BE REQUIRE SEEDING WITHIN TWO (2) WEEKS FOLLOWING THE ESTABLISHMENT OF FINAL GRADE. AREAS TO RECEIVE PAVEMENT DURING THE CONSTRUCTION OF THE ROAD SYSTEM SHALL NOT RECEIVE ANY SEEDING. SEEDING SHOULD BE ACCOMPLISHED USING AN APPROPRIATE GRASS DRILL, BY BROADCASTING OR BY HYDROMULCHING. IF SEEDING BY THE BROADCAST METHOD IS SELECTED THE APPLICATION RATE SHOULD BE DOUBLED. IF HYDROMULCHING IS SELECTED, TWO OPERATIONS SHALL BE REQUIRED, APPLYING THE SEED FIRST AND THE MULCH IN A SECOND OPERATION. UPON COMPLETION OF THE SEEDING OPERATION THE SITE SHOULD BE COVERED WITH WOOD FEEF 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:

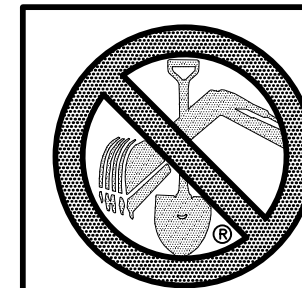
GRASS	VARIETY	AMOUNT IN PLS LBS. PER ACRE
SIDEOATS GRAMA	EL RENO	3.0
WESTERN WHEATGRASS	BARTON	2.5
SLENDER WHEATGRASS	NATIVE	2.0
TITLE BLUESTERN	PASTURA	2.0
SAND DROPSIED	NATIVE	0.5
SWITCH GRASS	NEBRASKA	3.0
WEEPING LOVE GRASS	MORPHA	1.0



TYPICAL RESIDENTIAL STREET SECTION
60' ROW
NTS




TYPICAL LAMBERT ROAD STREET SECTION



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<div> <div>Scale</div> <div>AS SHOWN</div> <div>21 of 22</div> </div>	<div> <div>Drawn by</div> <div>Log</div> </div>	<div> <div>ROUGH GRADING WINDINGWALK AT MERIDIAN RANCH</div> <div>ROUGH GRADINGHEROSION CONTROL PLAN</div> <div>DETAIL SHEET</div> </div>	<div>  <div> <div>MERIDIAN RANCH</div> <div>TECH CONTRACTORS</div> <div>11886 STAPLETON DRIVE</div> <div>FALCON, CO 80831</div> <div>TELEPHONE: 719.495.7444</div> <div>FAX: 719.495.2457</div> </div> </div>	<div> <div>No.</div> <div>Revisions</div> </div>	<div> <div>Date</div> <div>Inst.</div> <div>Appr.</div> <div>Date</div> </div>
	<div> <div>Checked by</div> <div>TAK</div> </div>				
	<div> <div>Date</div> <div>FEB 2008</div> </div>				

