

S:\CIP\Proj\Winding Walk Filing 1\DWG\PLAN SHEETS\WINDING WALK 1.ROUGH GRADING.dwg, 01 COVER SHEET, 2/12/2018 7:05:50 AM

UTILITY CONTACTS:

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

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

DRAINAGE — EL PASO COUNTY DSD/INSPECTIONS
(719)–520–6300

DRAINAGE — MERIDIAN SERVICE METROPOLITAN DISTRICT
POC: TOM KERBY
(719)–495–7444

GAS — BLACK HILLS ENERGY
(719)–393–6625

ELECTRIC — MOUNTAIN VIEW ELECTRIC ASSOC.
(719)–495–2283

GEOTECHNICAL ENGINEER — ENTECH ENGINEERING, INC.
(719)–531–5599

FALCON FIRE PROTECTION DISTRICT
(719) 495–4050

CAUTION - NOTICE TO CONTRACTOR

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

LEGAL DESCRIPTION:

KNOW ALL MEN BY THESE PRESENTS:
THAT GTL, INC. DBA GTL DEVELOPMENT, INC., THEODORE TCHANG, PRESIDENT AND MERIDIAN SERVICE METROPOLITAN BEING THE OWNERS OF THE FOLLOWING DESCRIBED TRACT OF LAND:

A PARCEL OF LAND LOCATED IN A PORTIONS OF SECTION 29, 30, AND 32, IN TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

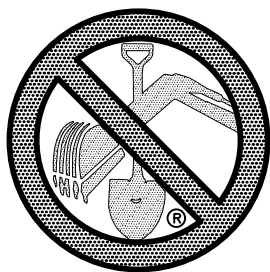
BEGINNING AT A POINT ON THE SOUTHERNMOST CORNER OF TRACT D OF STONEBRIDGE FILING NO. 1 AT MERIDIAN RANCH, RECORDED WITH RECEPTION NO. 215713582 IN THE RECORDS OF EL PASO COUNTY;

THE FOLLOWING SEVEN(7) COURSES ARE ON SAID SOUTHERLY LINE OF TRACT D:

1. THENCE N76°25'11"E A DISTANCE OF 375.00 FEET;
2. THENCE N13°42'24"E A DISTANCE OF 350.00 FEET;
3. THENCE N56°18'54"E A DISTANCE OF 150.00 FEET;
4. THENCE S84°02'15"E A DISTANCE OF 300.00 FEET;
5. THENCE N61°01'20"E A DISTANCE OF 300.00 FEET;
6. THENCE N44°00'02"E A DISTANCE OF 520.00 FEET;
7. THENCE N58°12'41"E A DISTANCE OF 333.23 FEET;
8. THENCE N24°26'21"E A DISTANCE OF 81.83 FEET;
9. THENCE N66°06'02"E A DISTANCE OF 600.00 FEET;
10. THENCE S85°52'49"E A DISTANCE OF 400.00 FEET;
11. THENCE S61°19'51"E A DISTANCE OF 500.00 FEET;
12. THENCE S83°50'41"E A DISTANCE OF 410.00 FEET;
13. THENCE S23°25'11"W A DISTANCE OF 140.26 FEET;
14. THENCE S09°37'54"E A DISTANCE OF 190.96 FEET;
15. THENCE S55°38'05"E A DISTANCE OF 290.90 FEET;
16. THENCE S51°08'09"E A DISTANCE OF 310.00 FEET;
17. THENCE S69°57'07" A DISTANCE OF 317.66 FEET TO A POINT ON THE WESTERN BOUNDARY OF THE VISTAS FILING NO. 1 AT MERIDIAN RANCH, RECORDED WITH RECEPTION NO. 217713953 IN THE RECORDS OF EL PASO COUNTY, AND A NON–TANGENT CURVE TO THE RIGHT;

THE FOLLOWING THIRTEEN(13) COURSES ARE ON SAID BOUNDARY LINE:

21. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 1540.00 FEET, A DELTA ANGLE OF 39°36'05", AN ARC LENGTH OF 795.63 FEET, WHOSE LONG CHORD BEARS S34°50'56"W A DISTANCE OF 786.81 FEET;
22. THENCE S05°49'18"W A DISTANCE OF 31.52 FEET;
23. THENCE S51°35'04"W A DISTANCE OF 60.00 FEET;
24. THENCE N82°39'10"W A DISTANCE OF 31.52 FEET TO A NON–TANGENT CURVE TO THE RIGHT;
25. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 1540.00 FEET, A DELTA ANGLE OF 03°34'52", AN ARC LENGTH OF 96.25 FEET, WHOSE LONG CHORD BEARS S55°18'35"W A DISTANCE OF 96.24 FEET;
26. THENCE S32°53'59"E A DISTANCE OF 20.55 FEET;
27. THENCE S35°51'09"E A DISTANCE OF 223.61 FEET;
28. THENCE S39°48'46"E A DISTANCE OF 205.06 FEET;
29. THENCE S41°08'31"E A DISTANCE OF 105.12 FEET;
30. THENCE S35°41'22"E A DISTANCE OF 105.12 FEET;
31. THENCE S35°16'51"E A DISTANCE OF 70.00 FEET;
32. THENCE S41°20'14"E A DISTANCE OF 75.00 FEET;
33. THENCE S63°46'18"E A DISTANCE OF 75.00 FEET;
34. THENCE S86°32'17"E A DISTANCE OF 75.00 FEET;
35. THENCE N73°48'47"E A DISTANCE OF 81.73 FEET;
36. THENCE S51°15'02"E A DISTANCE OF 101.93 FEET TO A POINT ON THE EASTERN BOUNDARY OF SAID VISTAS FILING NO. 1 AT MERIDIAN RANCH AND THE WESTERLY RIGHT–OF–WAY LINE OF EASTONVILLE ROAD;
37. THENCE S38°44'41"W ALONG SAID LINES A DISTANCE OF 110.22 FEET TO THE SOUTH EAST CORNER OF SAID VISTAS FILING NO. 1 AT MERIDIAN RANCH;
38. THENCE S38°44'41"W ALONG SAID EASTONVILLE RIGHT–OF–WAY A DISTANCE OF 408.79 FEET;
39. THENCE N89°23'27"W A DISTANCE OF 12.73 FEET TO THE NORTHEAST CORNER OF TRACT F OF THE METROPOLITAN CLUB RECORDED WITH RECEPTION NO. 208712913 IN THE RECORDS OF EL PASO COUNTY;



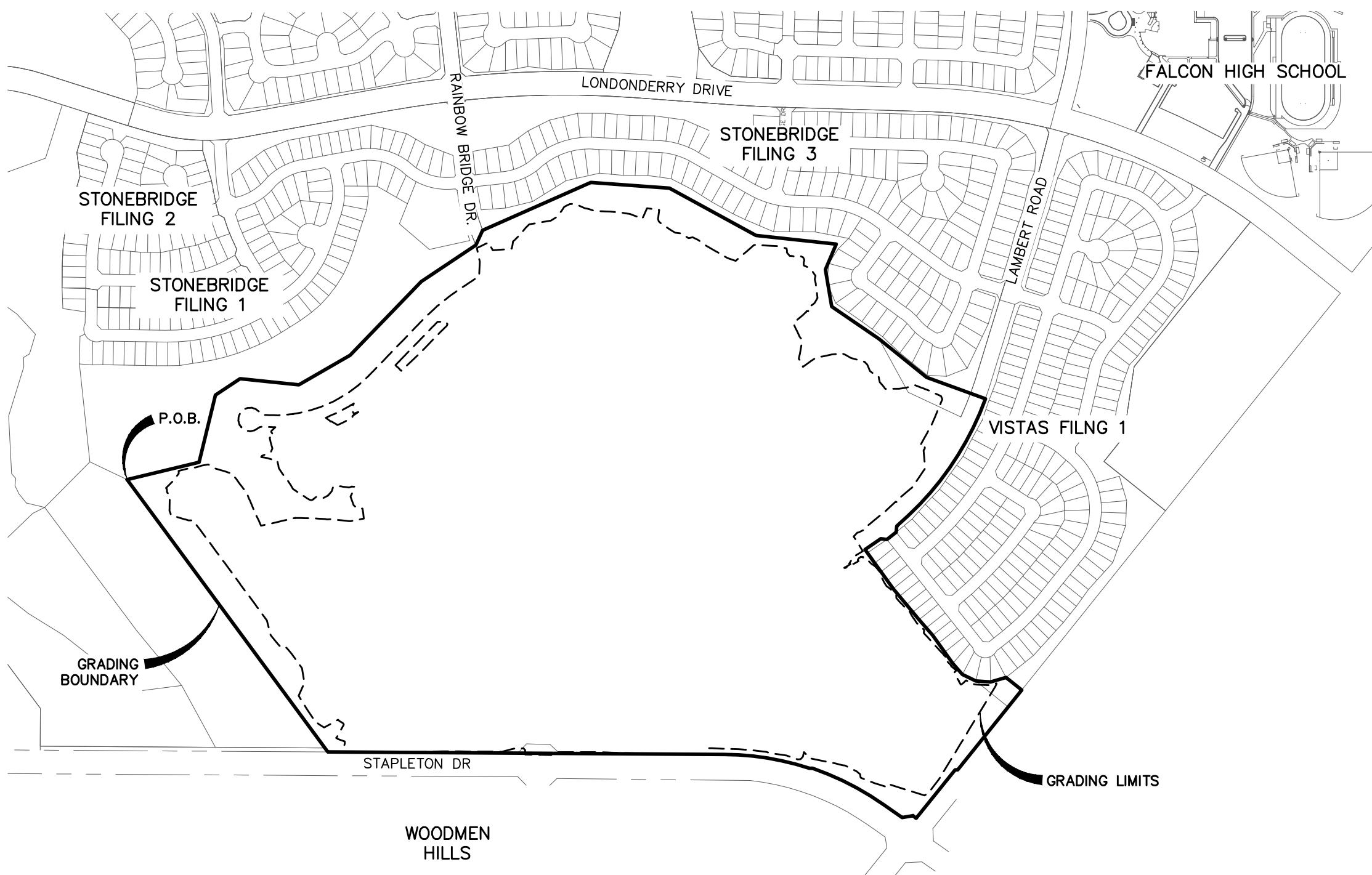
TWO WORKING DAYS
BEFORE YOU DIG
CALL 811

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

ROUGH GRADING FOR WINDINGWALK AT MERIDIAN RANCH

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

A PARCEL OF LAND LOCATED IN A PORTION OF SECTIONS 29, 30, AND 32,
IN TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN,
EL PASO COUNTY, STATE OF COLORADO.



THE FOLLOWING SIX(6) COURSES ARE ON SAID TRACT LINE:

40. THENCE S38°47'27"W A DISTANCE OF 315.49 FEET;
41. THENCE N51°12'33"W A DISTANCE OF 21.28 FEET;
42. THENCE S38°47'27"W A DISTANCE OF 1.03 FEET;
43. THENCE S80°17'18"W A DISTANCE OF 55.16 FEET TO A POINT ON THE NORTHERLY RIGHT–OF–WAY LINE OF STAPLETON DRIVE;
44. THENCE N54°42'42"W ON SAID NORTHERLY RIGHT–OF–WAY A DISTANCE OF 113.89 FEET TO A CURVE TO THE LEFT;
45. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 1415.00 FEET, A DELTA ANGLE OF 16°26'49", AN ARC LENGTH OF 406.18 FEET, WHOSE LONG CHORD BEARS N62°55'59"W A DISTANCE OF 404.78 FEET;
46. THENCE N89°25'42"W A DISTANCE OF 16.24 FEET TO A NON–TANGENT CURVE TO THE LEFT;
47. THENCE ON THE ARC OF SAID CURVE, HAVING A RADIUS OF 1410.00 FEET, A DELTA ANGLE OF 17°51'47", AN ARC LENGTH OF 439.60 FEET, WHOSE LONG CHORD BEARS N80°43'00"W A DISTANCE OF 437.82 FEET;
48. THENCE N89°38'53W A DISTANCE OF 2010.65 FEET TO A POINT ON THE SOUTHEAST CORNER OF TRACT F, MERIDIAN RANCH FILING NO. 1 RECORDED WITH RECEPTION NO. 203036466 IN THE RECORDS OF EL PASO COUNTY;
49. THENCE N36°20'59"W ON SAID TRACT LINE A DISTANCE OF 24.74 FEET TO A POINT ON THE SOUTHEAST CORNER OF TRACT G, STONEBRIDGE FILING NO. 1 AT MERIDIAN RANCH, RECORDED WITH RECEPTION NO. 215713582 IN THE RECORDS OF EL PASO COUNTY;
50. THENCE N36°20'59"W ON SAID TRACT LINE A DISTANCE OF 1691.39 FEET TO THE POINT OF BEGINNING.

THE ABOVE PARCEL OF LAND CONTAINS 207.351 ACRES, MORE OR LESS.

DEVELOPERS STATEMENT:

DEVELOPERS STATEMENT:

THE UNDERSIGNED DEVELOPER HAS READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE CONSTRUCTION PLANS AND THE ACCOMPANYING DRAINAGE REPORT.


RAUL GUZMAN, VICE PRESIDENT
GTL DEVELOPMENT, INC.


2/12/18
DATE

BASIS OF BEARING

BASIS OF BEARINGS FOR THIS DESCRIPTION IS THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 29, T12S, R64W OF THE 6TH P.M., WHICH IS ASSUMED TO BEAR S89°25'42"E FROM THE SOUTHWEST CORNER OF SECTION 29 (A STONE W/SCRIBED "X") TO THE SOUTH QUARTER CORNER OF SECTION 29 (3.25" ALUM. CAP LS 30087).

BENCH MARK

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

2) WRMS1 — 3 1/4" ALUMINUM CAP ON NO.6 REBAR LOCATED ON THE WEST SIDE OF RAINBOW BRIDGE DRIVE 1,150 FEET NORTH OF LONDONDERRY DRIVE. LOCATED NEAR THE BACK OF SIDE WALK AT THE NW CORNER OF RAINBOW BRIDGE DRIVE AND THE NORTHERLY ENTRANCE TO MERIDIAN RANCH ELEMENTARY SCHOOL (10480 RAINBOW BRIDGE DRIVE). ELEVATION — 7099.73'

OWNERS STATEMENT:

OWNERS STATEMENT:

THE UNDERSIGNED OWNER HAS READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE CONSTRUCTION PLANS AND THE ACCOMPANYING DRAINAGE REPORT.

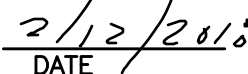

RAUL GUZMAN, VICE PRESIDENT
MERIDIAN RANCH INVESTMENTS, INC.


2/12/18
DATE


RAUL GUZMAN, VICE PRESIDENT
GTL DEVELOPMENT, INC.


2/12/18
DATE


MILTON GABRIELSKI, PRESIDENT
MERIDIAN SERVICE METROPOLITAN DISTRICT

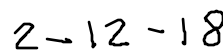

2/12/2018
DATE

DESIGN ENGINEER'S STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID DETAILED PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.


THOMAS A. KERBY, P.E. #31429




2-12-18
DATE

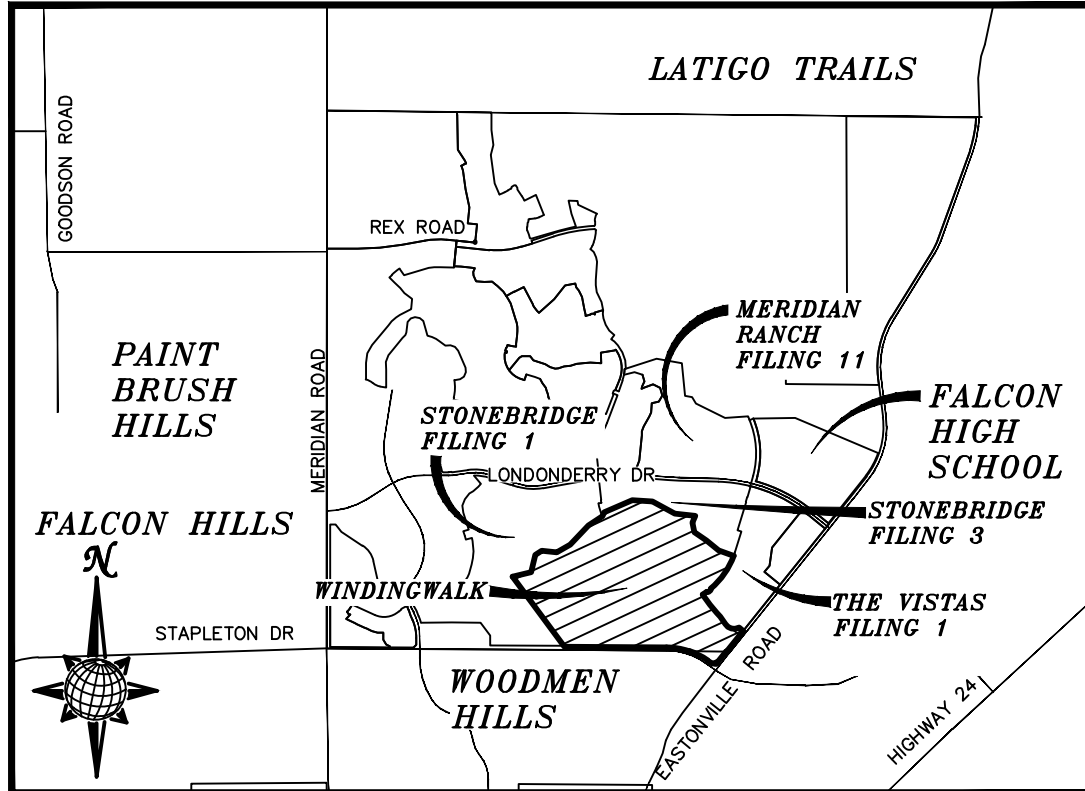
EL PASO COUNTY:

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

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

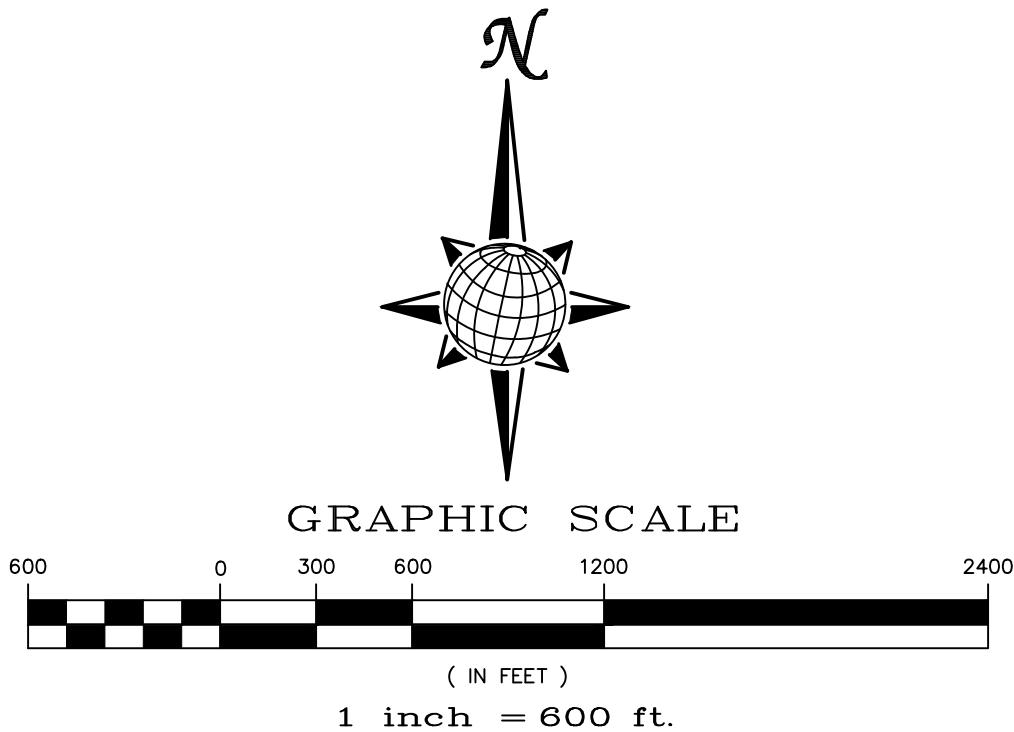
JENNIFER IRVINE, P.E.
COUNTY ENGINEER / ECM ADMINISTRATOR

Approved
By: Jennifer Irvine, County Engineer
Date: 03/06/2018
El Paso County Department of Public Works

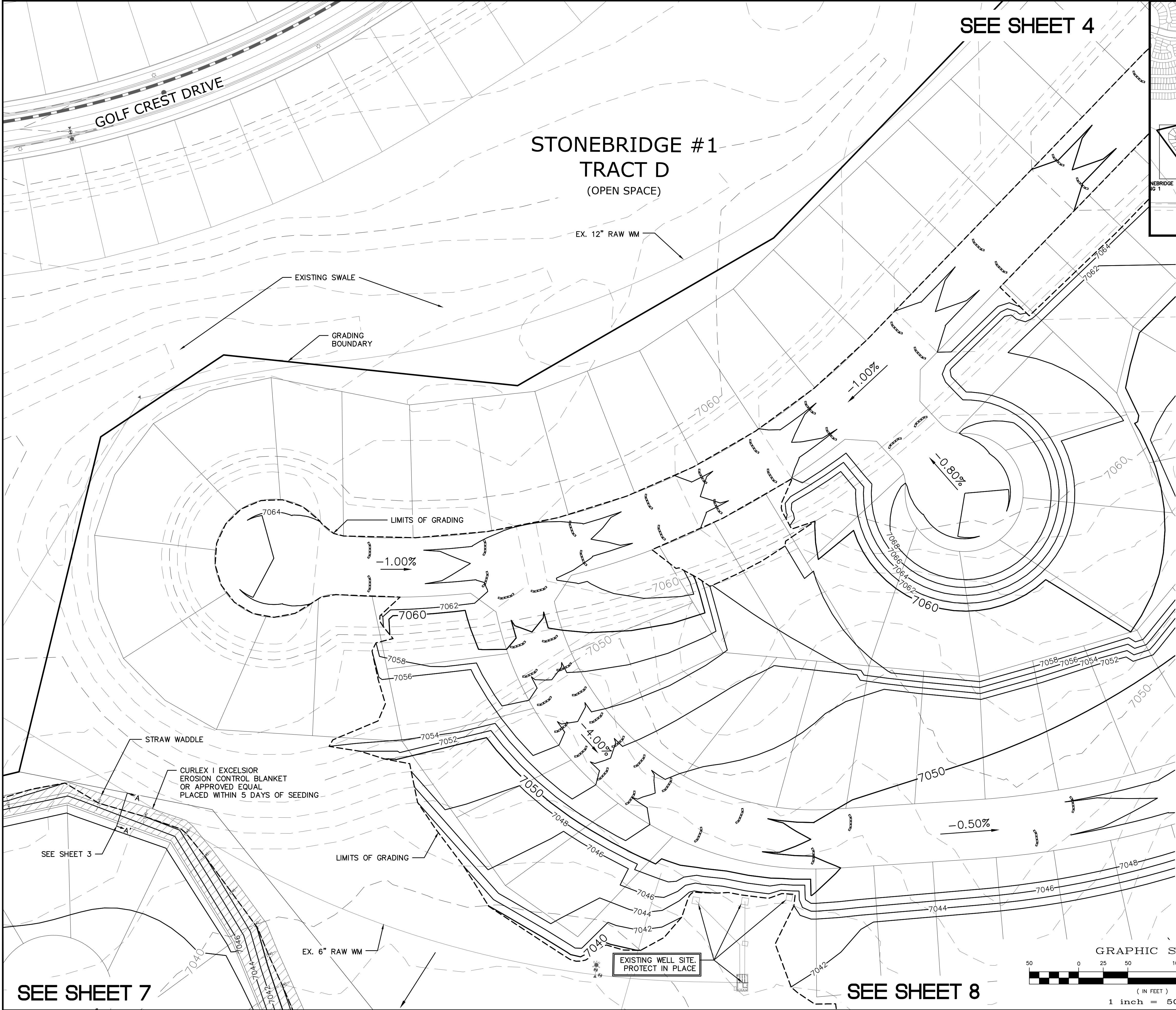


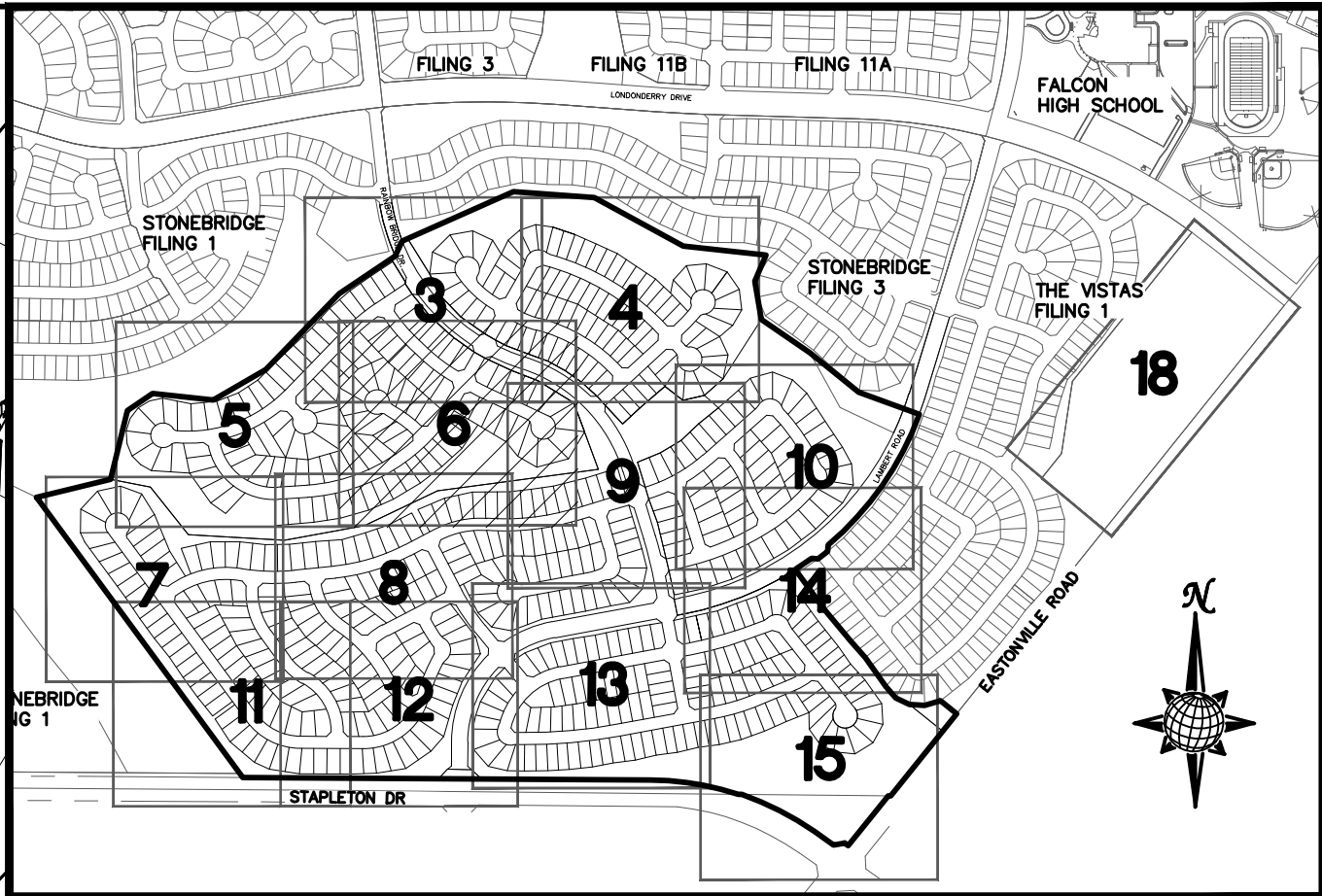
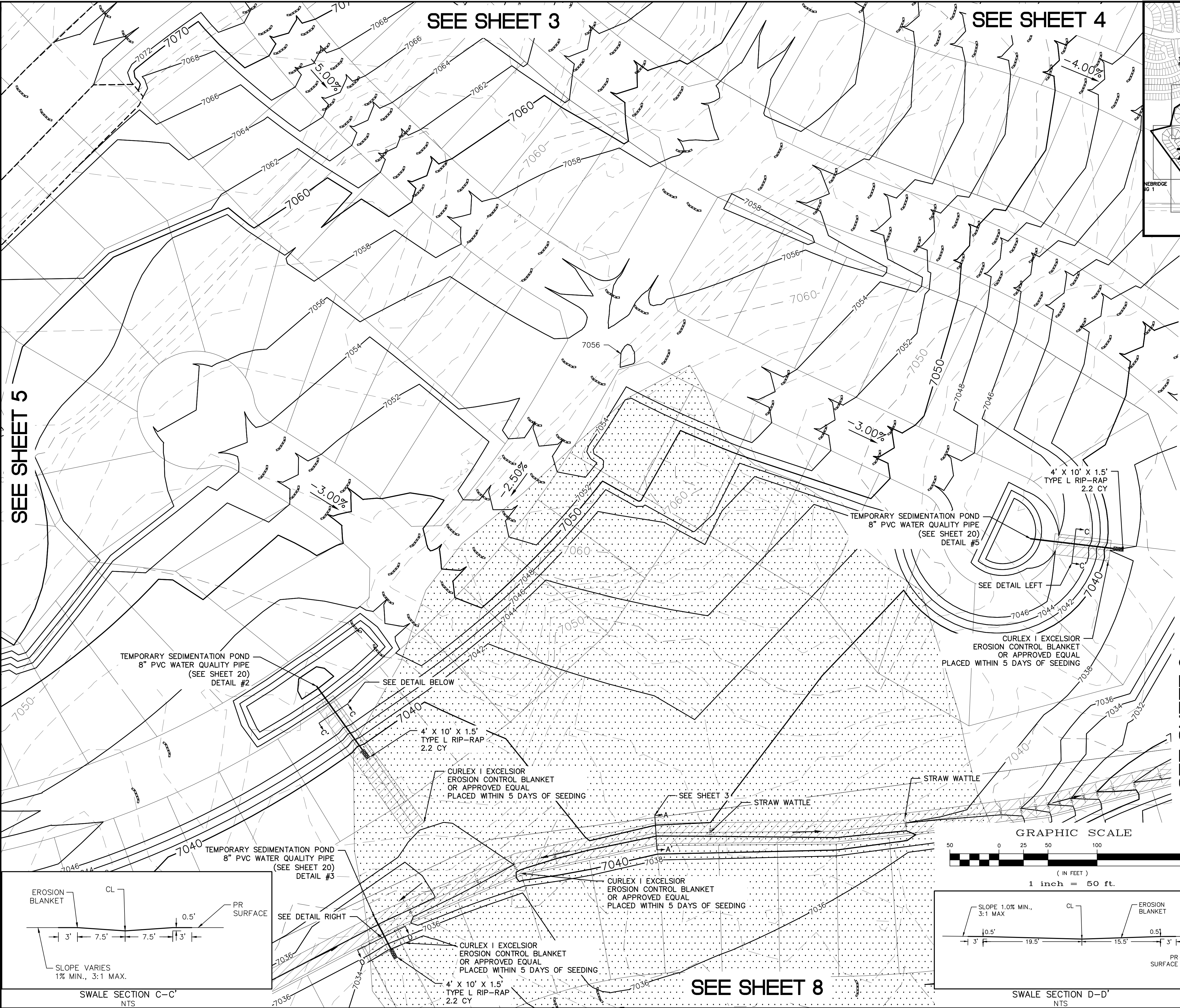
VICINITY MAP N.T.S.

SHEET	SHEET INDEX
1	COVER SHEET
2	INDEX SHEET
3–15	LAYOUT SHEETS
16–22	DETAIL SHEETS



REVISED GRADES (SH 8 AND 12)		REVISED NORTH STRUC AND WO OUTLETS (2.1, 2.4, 3.4) (SH 19)		REVISED TRICKLE CHANNEL (SH 16)		Revisions	Date	Appr.	Date
LOG	TAK	LOG	TAK	LOG	TAK				
1		2		3		No.			
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 COVER SHEET									
Drawn by	Loca	Checked by	TAK	Date	FEB 2018				
Scale	AS SHOWN		1	of	22				






INDEX MAP
N.T.S.

LEGEND

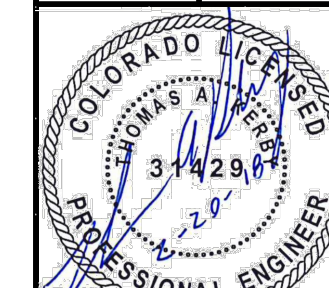
SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 22
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
	RCP	REINFORCED CONCRETE PIPE
	SF	SILT FENCE PER DETAIL SF-1, SF-2 & SF-3 DCM VOL. 2
	UTC	VEHICLE TRACKING CONTROL PER DETAIL VT-2 DCM VOL. 2
	IP	INLET PROTECTION 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.

NOTE:
ALL CONTOURS SHOWN WITHIN THE PLAN SET
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TYPICAL STREET SECTION SHOWN ON SHEET 21.

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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

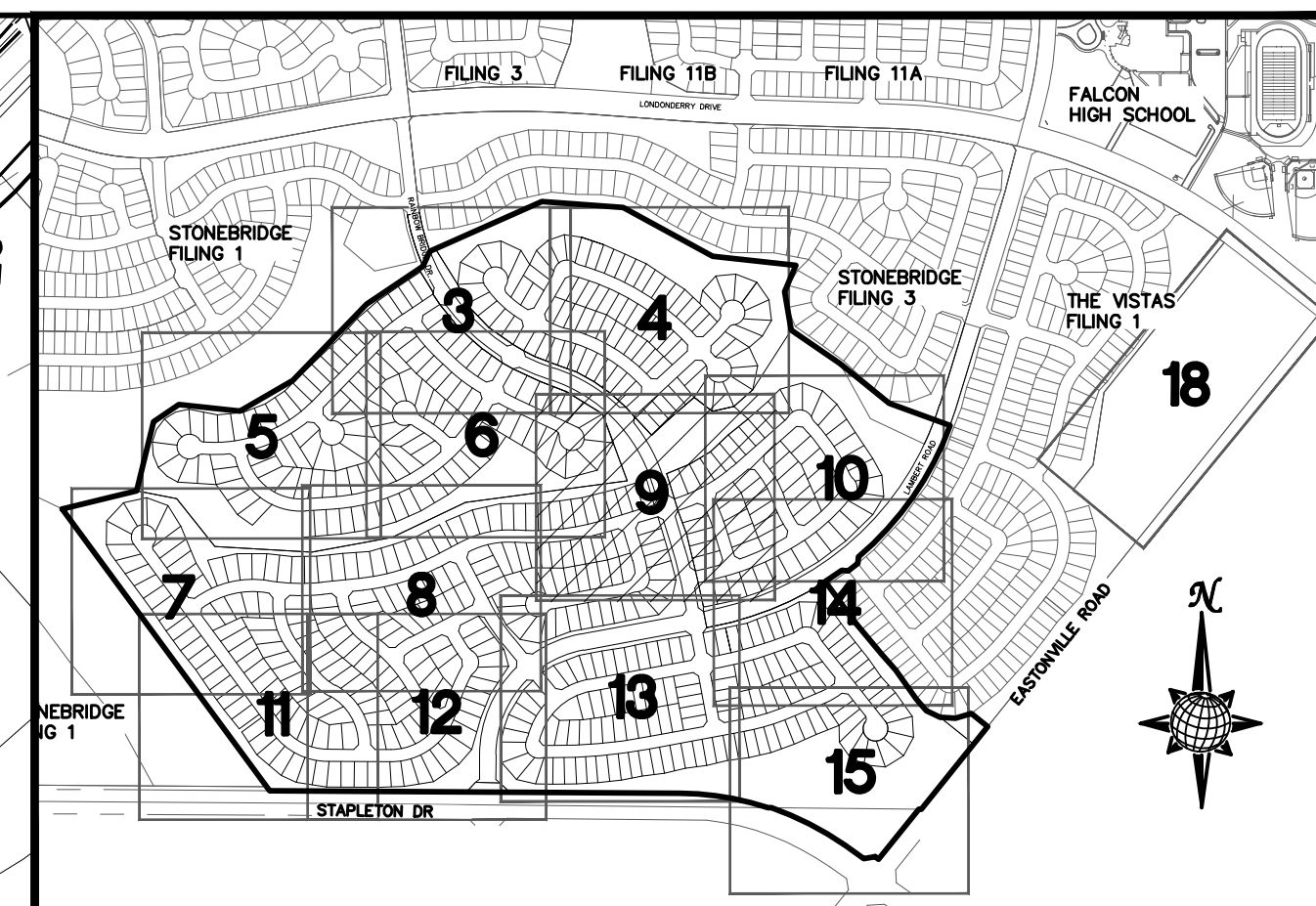
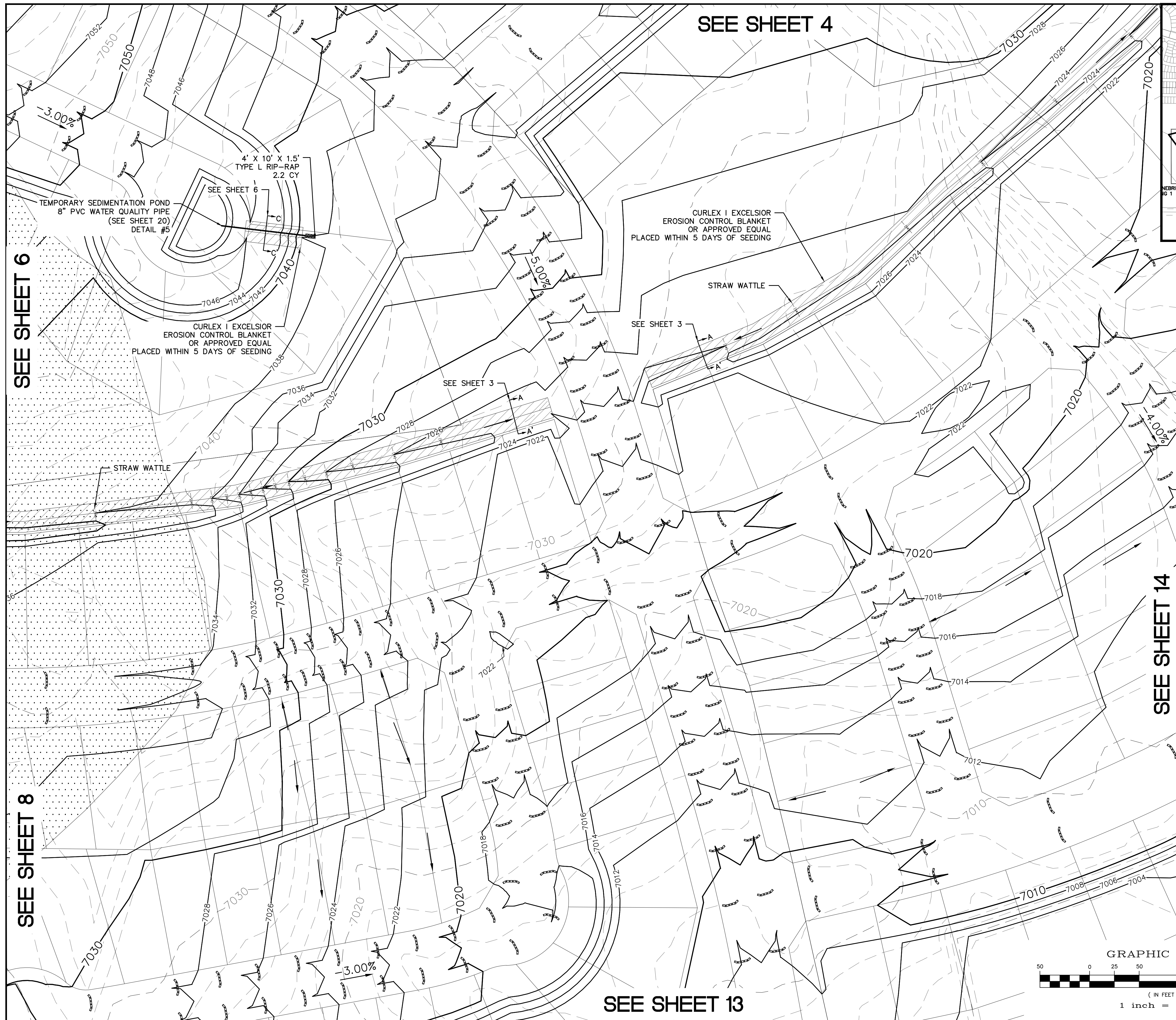


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
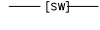






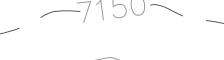
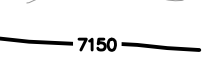


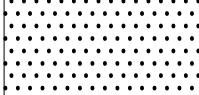
PROFESSIONAL ENGINEER
STATE OF COLORADO
No. 22893
Exp. 12/31/2024

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 PLAN SHEET		Drawn by Loc Checked by TAK	Date FEB 2018
No.		Revisions		Scale AS SHOWN	6 of 22
Date		Date		Date	
Appr.		Appr.		Date	



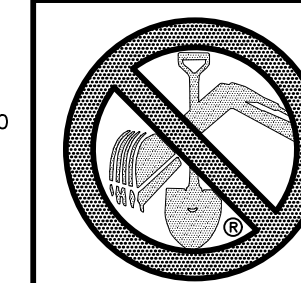
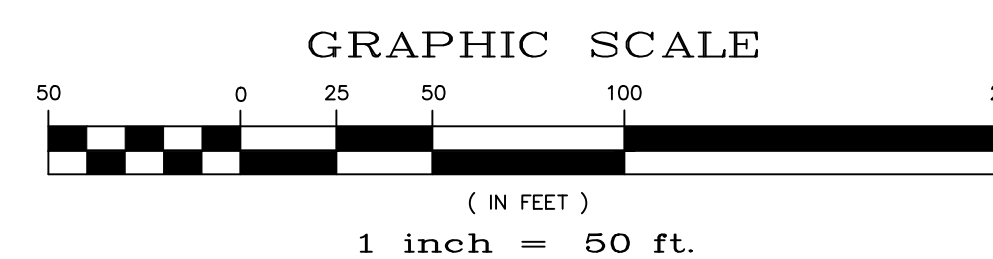
INDEX MAP
N.T.S.

LEGEND

SYMBOL	ACRONYM	DESCRIPTION
		STRAW BALES
		EROSION WATTLES
		PER DETAIL SHEET 22
		EROSION CONTROL BLANKET
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	(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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		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
2.00%		GRADE
75		LOT NUMBER
		LOT GRADE TYPE
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		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.

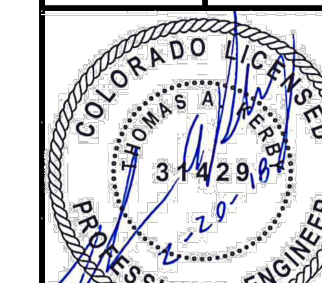
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6)MERIDIAN RANCH FILING 11
7)VISTAS FILING 1 AT MERIDIAN RANCH



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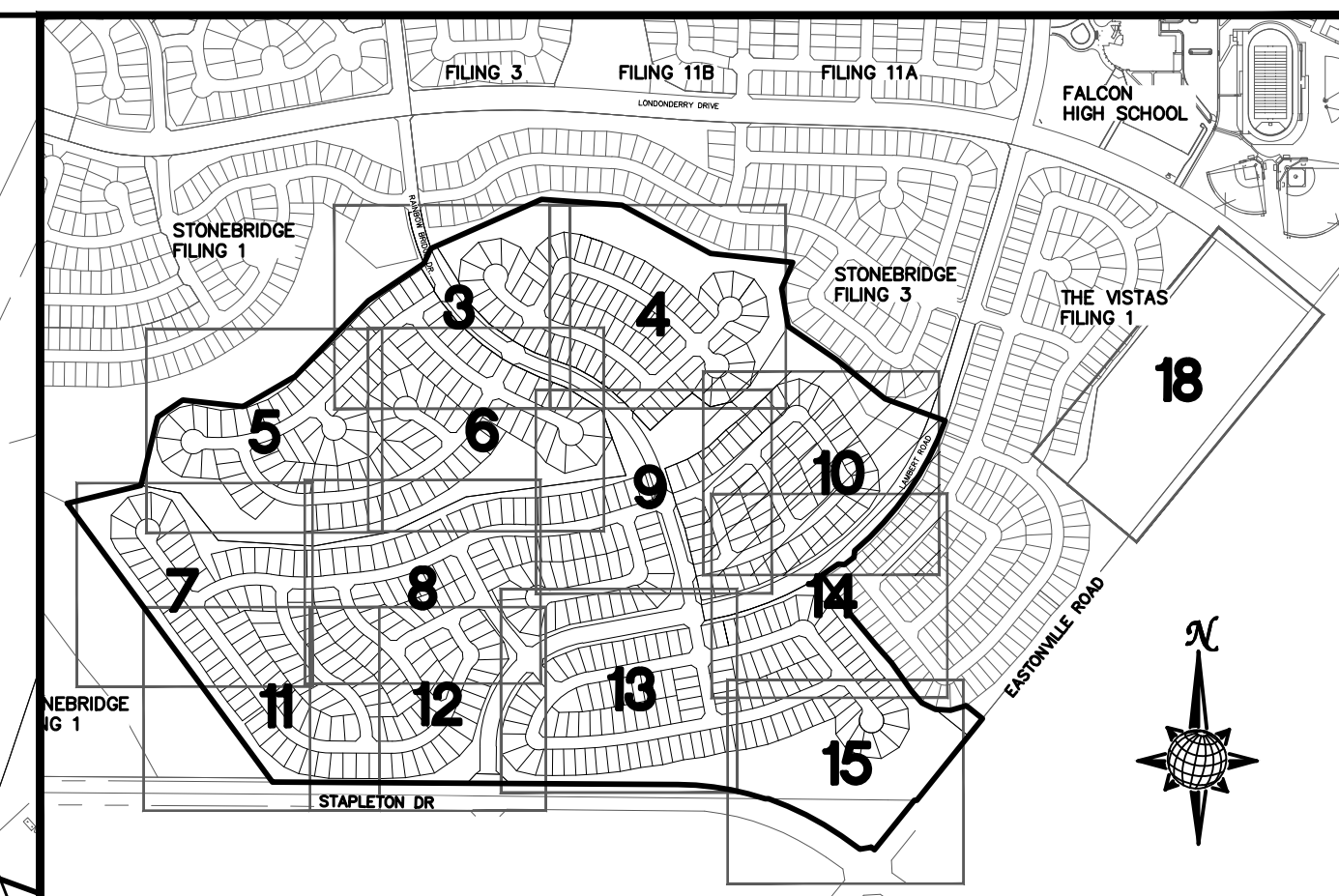
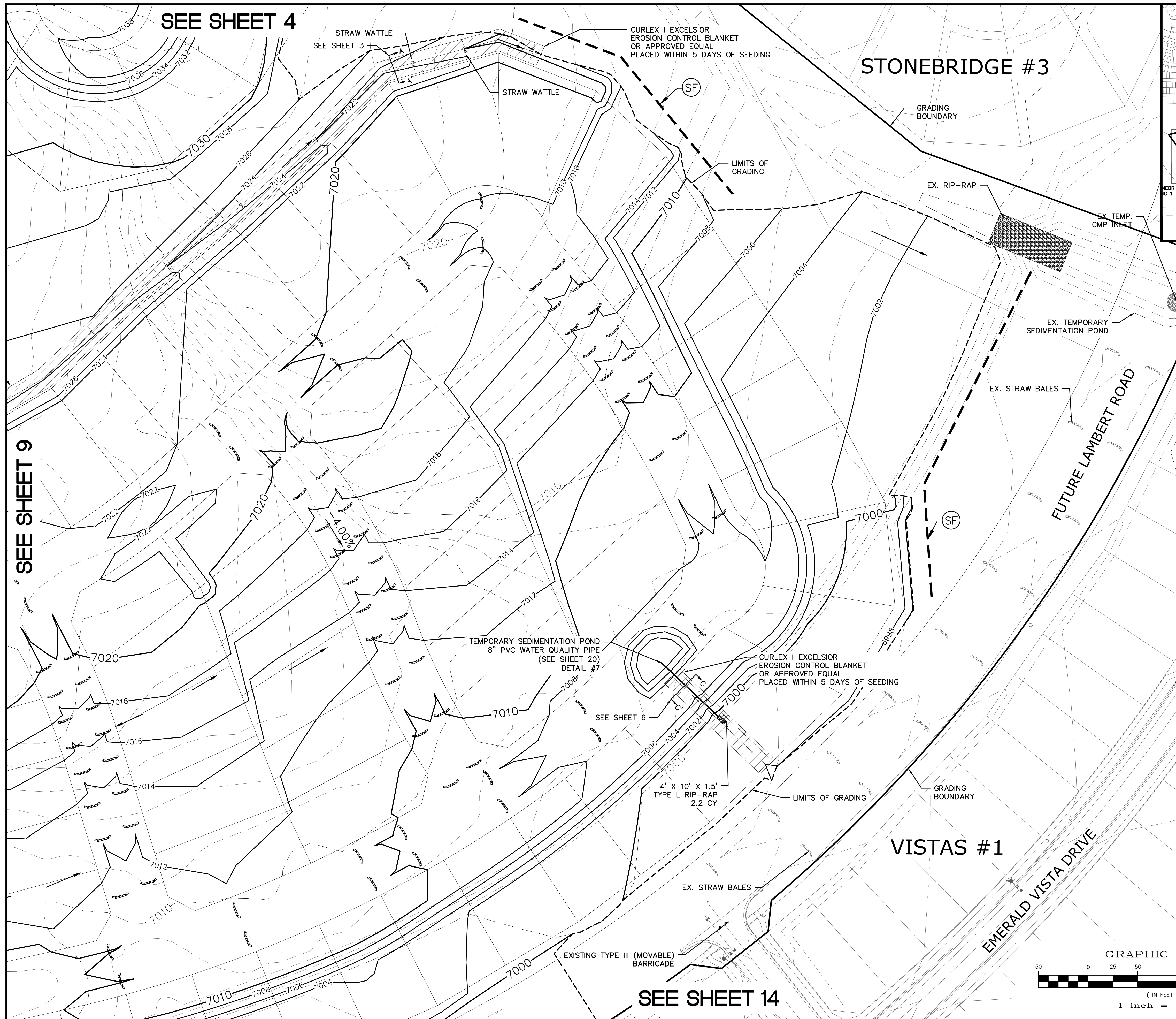
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TECH CONTRACTORS
11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE: 719.495.7444
FAX: 719.495.2457


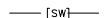
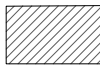


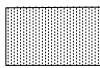

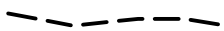
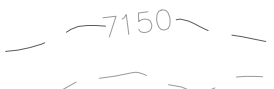
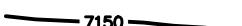


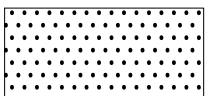

MERIDIAN RANCH

ROUGH GRADING WINDINGWALK AT MERIDIAN RANCH ROUGH GRADING+EROSION CONTROL PLAN

Scale AS SHOWN	Drawn by LOG
	Checked by TAK
	Date

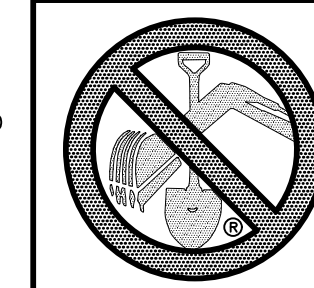


INDEX MAP
N.T.S.

<u>LEGEND</u>		
<u>SYMBOL</u>	<u>ACRONYM</u>	<u>DESCRIPTION</u>
		STRAW BALES
		EROSION WATTLES PER DETAIL SHEET 22
		EROSION CONTROL BLANKET PER DETAIL ECB-1 & ECB-2 DCM VOL. 2
	RCF	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 22
		LIMITS OF GRADING
		EXISTING CONTOUR (10')
		EXISTING CONTOUR (2')
		PROPOSED CONTOUR (10')
		PROPOSED CONTOUR (2')
2.00%		GRADE
75		LOT NUMBER
		LOT GRADE TYPE
		EXISTING STOCKPILE AREAS NOTE: A PORTION OF THE SITE CONTAINS UNDOCUMENTED FILL OF VARIOUS PLAYS

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:
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2)STONEBRIDGE FILING 2 AT MERIDIAN RANCH
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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



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

OR
UTILITY NOTIFICATION CENTER OF COLORADO
1-800-422-1887
(SEE COVER FOR LIST OF UTILITY CONTACTS)

[illegible]

TECH CONTRACTORS
11886 STAPLETON DRIVE
FALCON, CO 80831

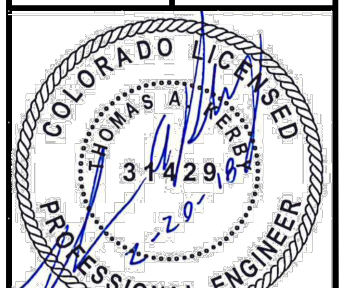
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FAX: 719.495.2457

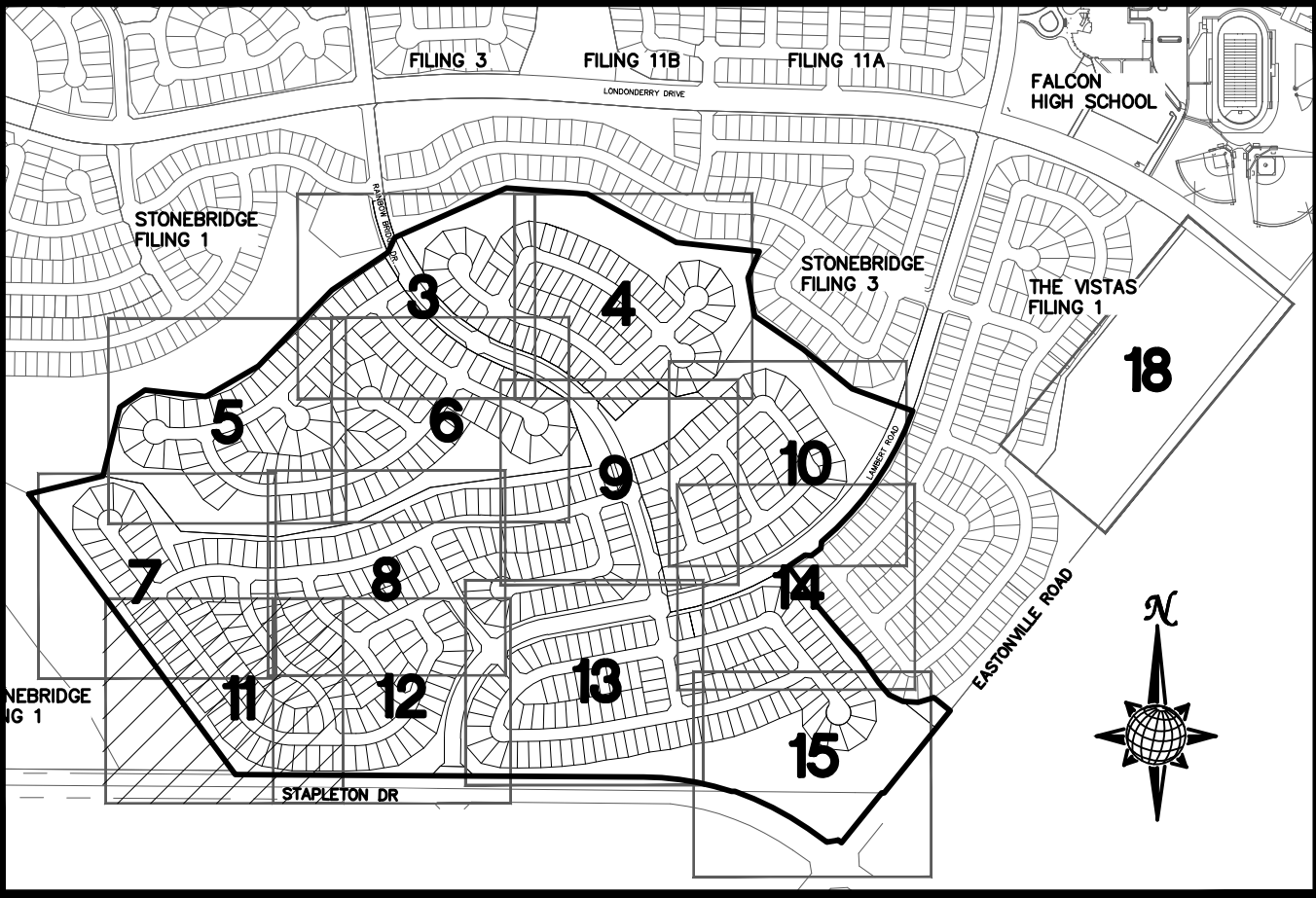
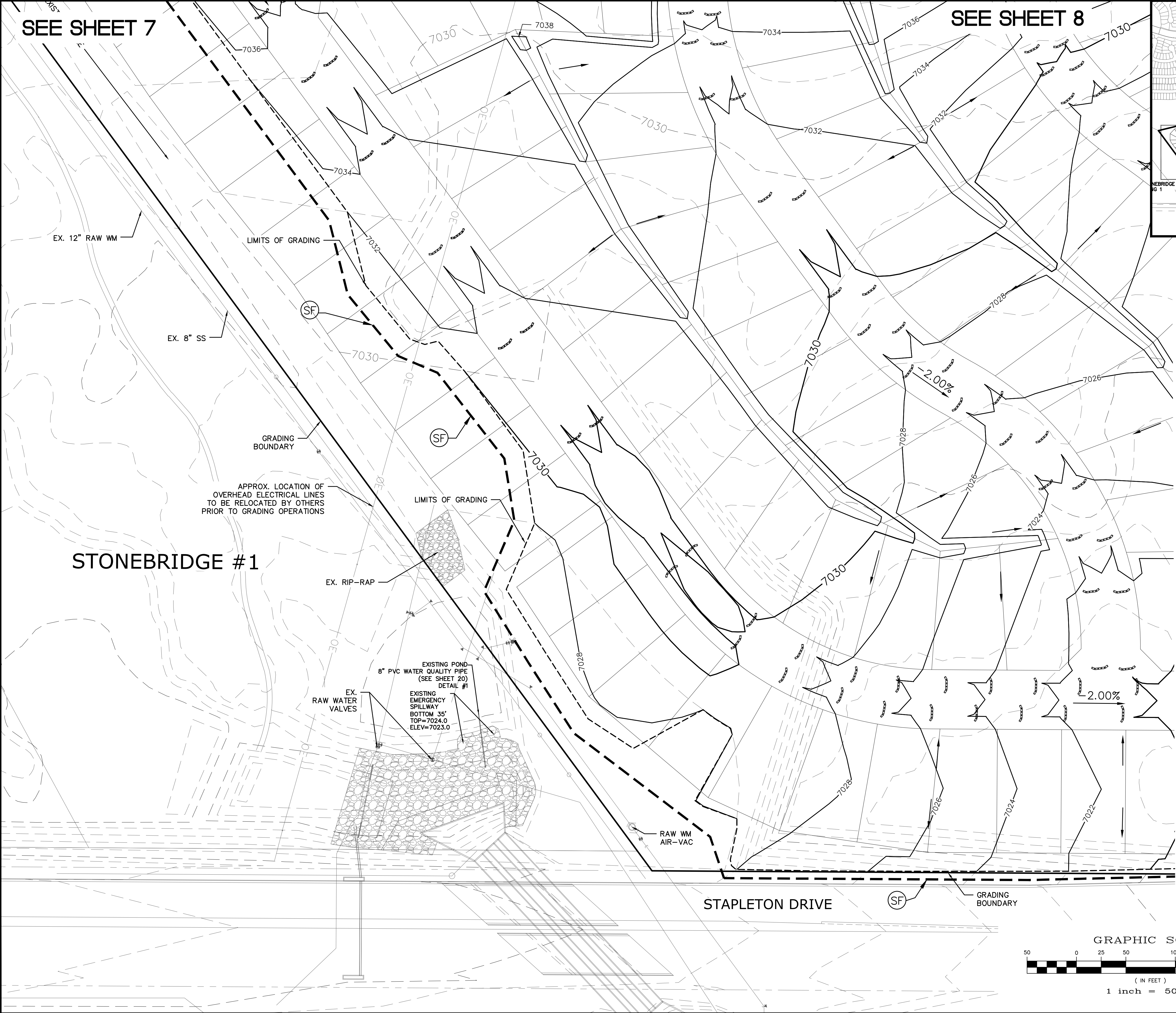


MERIDIAN RANCH

ROUGH GRADING WINDINGWALK
AT MERIDIAN RANCH
ROUGH GRADING+EROSION
CONTROL PLAN
PLAN SHEET

<i>Scale</i> AS SHOWN	<i>Drawn by</i> LOG
	<i>Checked by</i> TAK
	<i>Date</i> FEB 2018





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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
	VTC	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.

NOTE:
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ARE TO FINISHED SURFACE. ALL STREET
SECTIONS ARE TO BE GRADED TO ROUGH
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FILING 1 OFFSITE
6)MERIDIAN RANCH FILING 11
7)VISTAS FILING 1 AT MERIDIAN RANCH

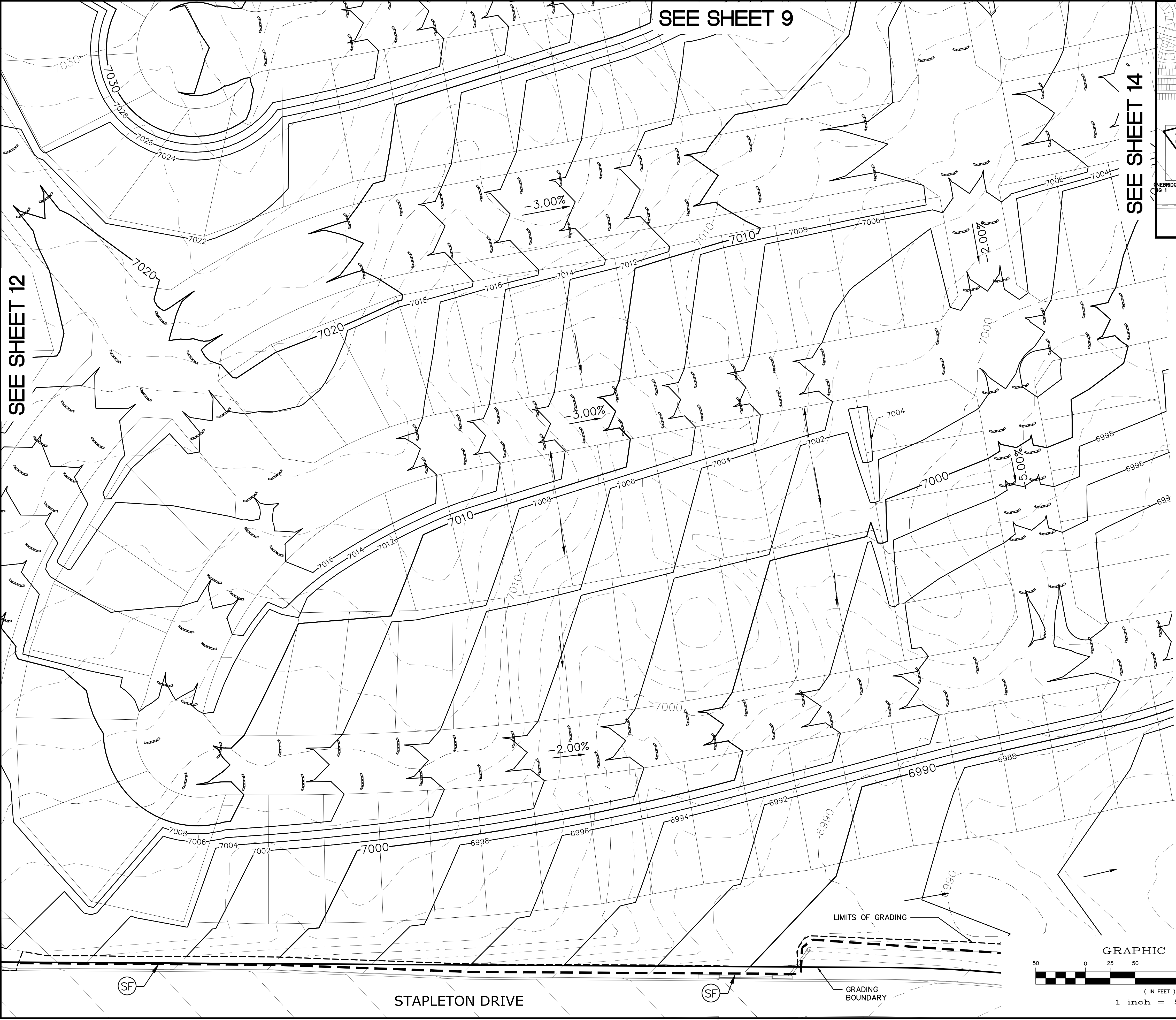
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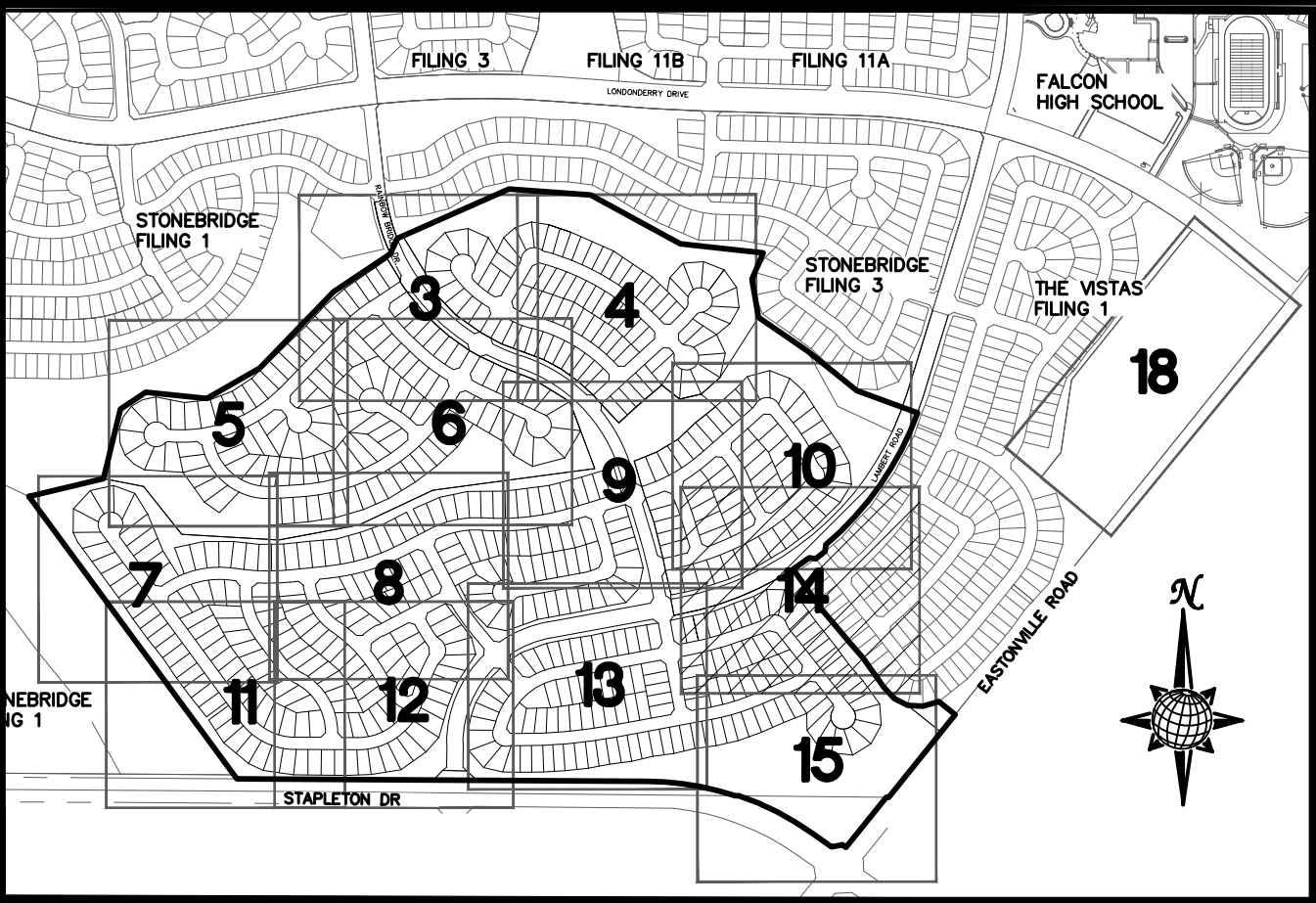
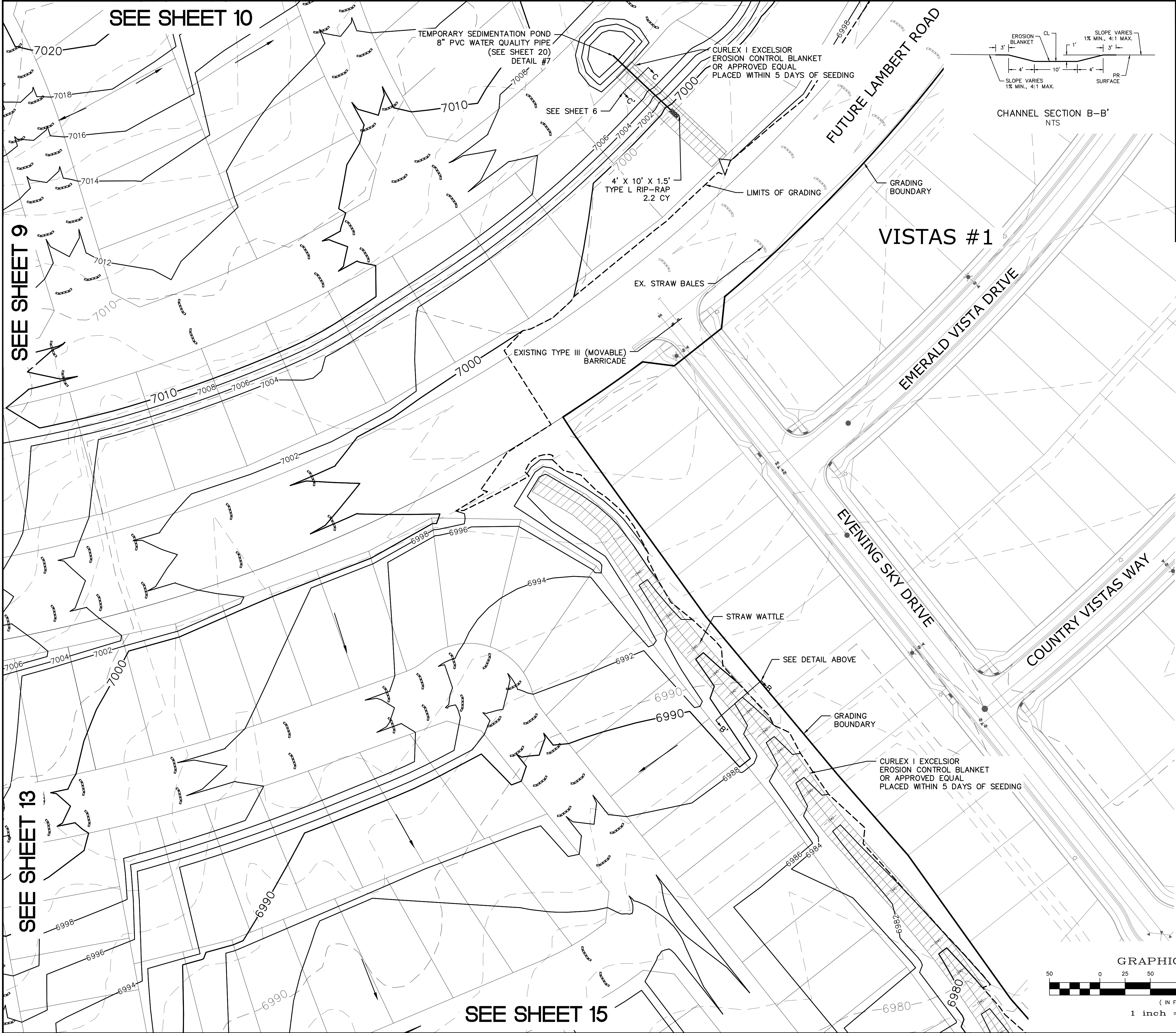
TWO WORKING DAYS
**BEFORE YOU DIG
CALL 811**

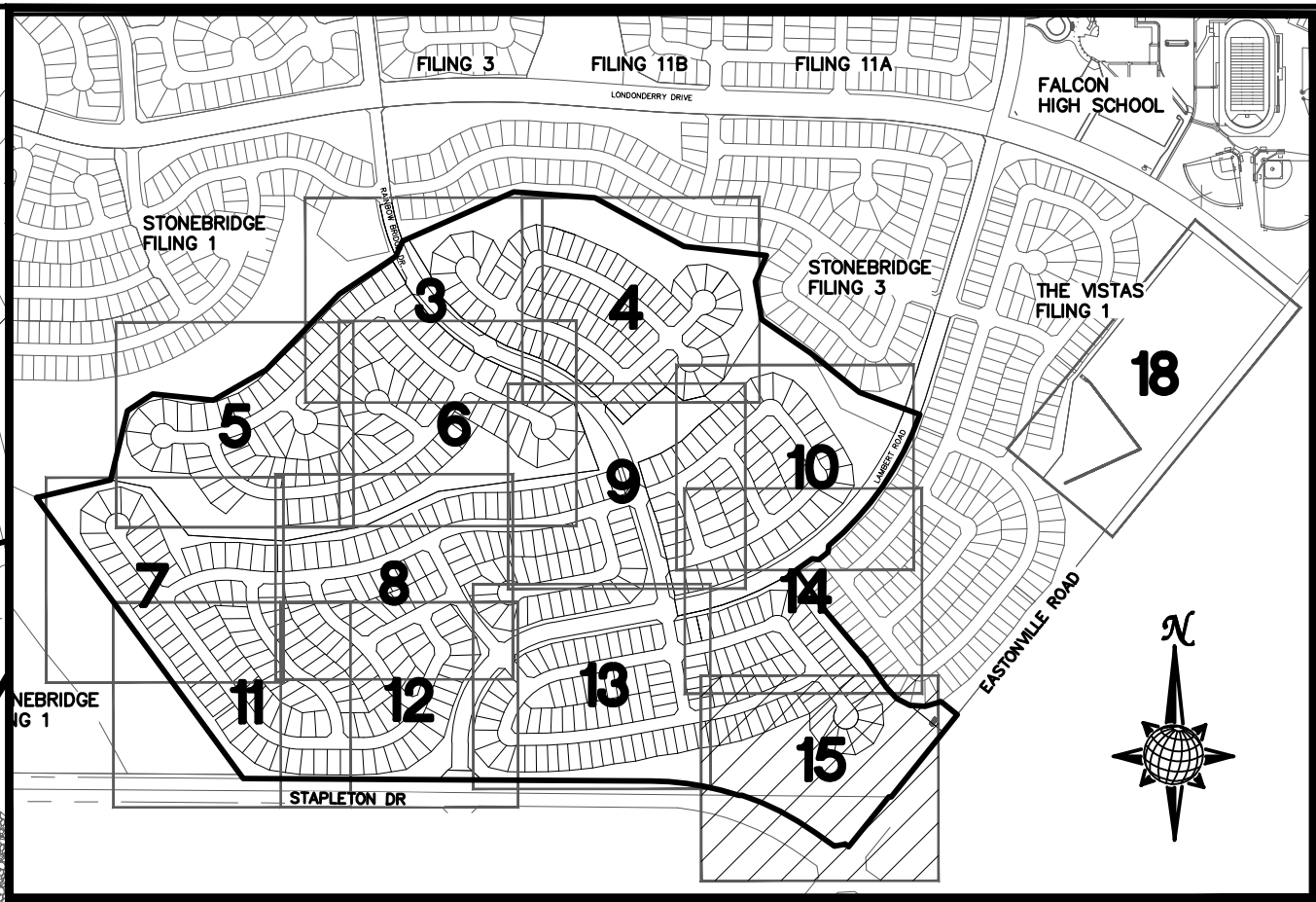
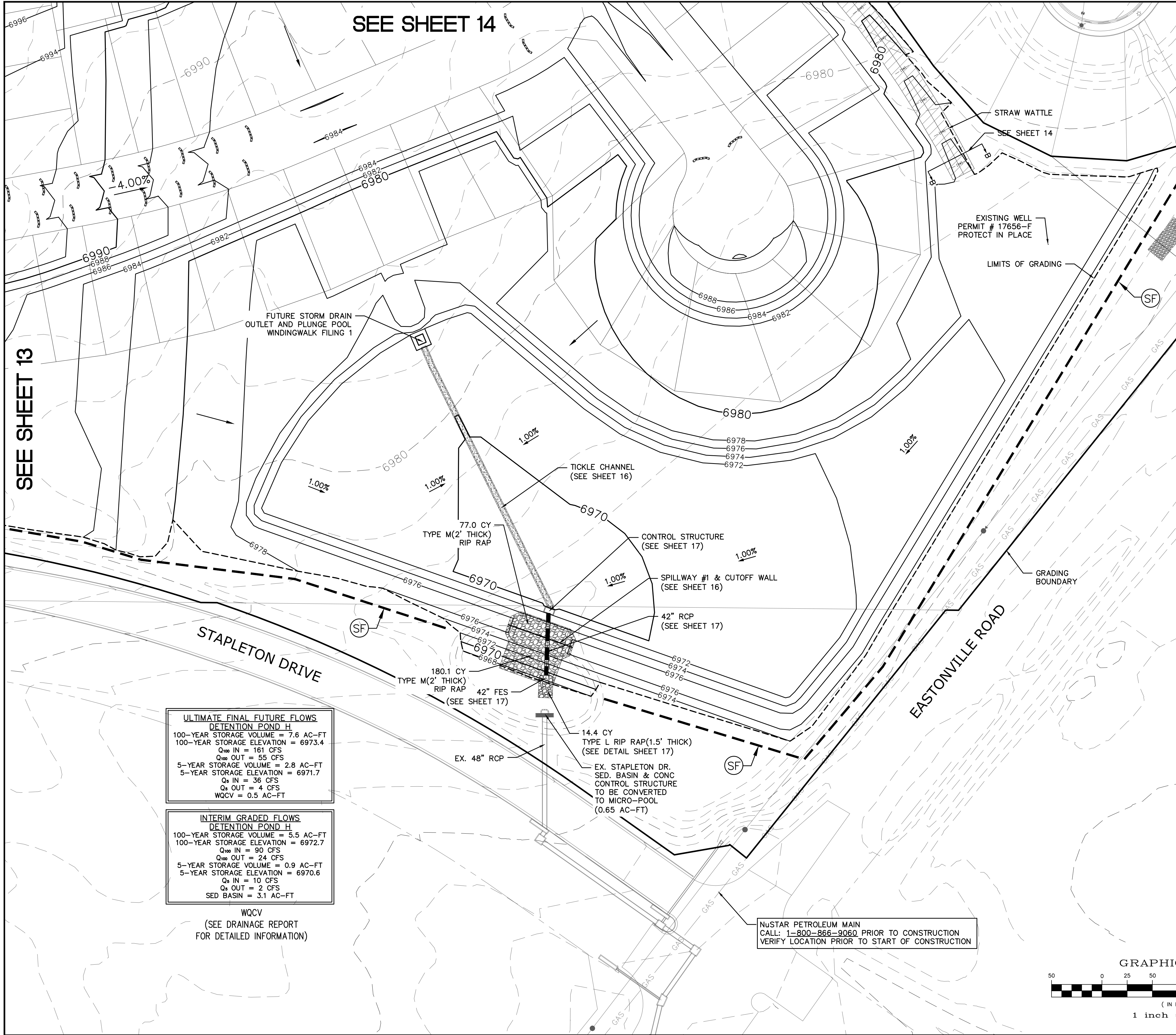
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UTILITY NOTIFICATION CENTER OF COLORADO
1-800-822-1987
(SEE COVER FOR LIST OF UTILITY CONTACTS)

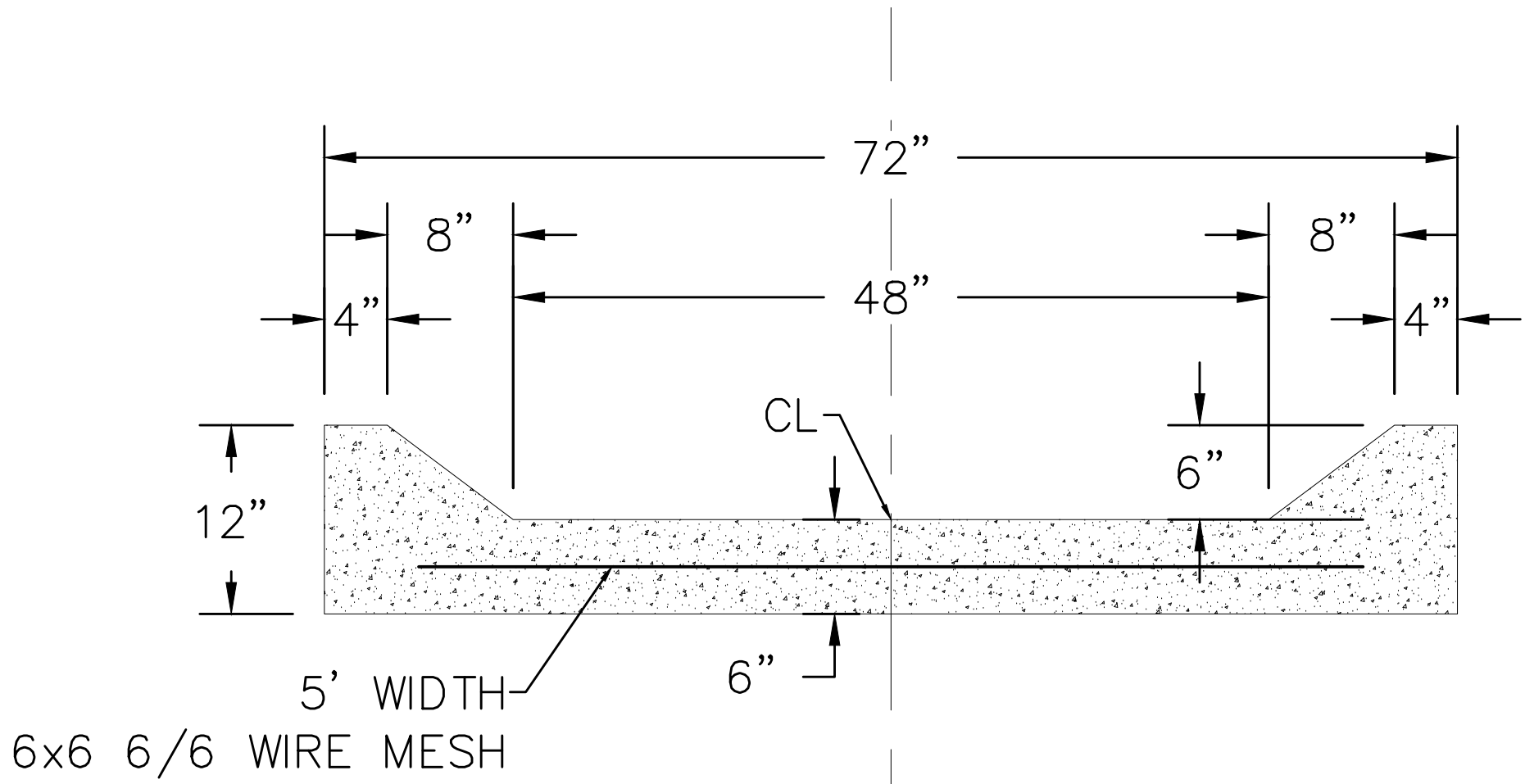
SEE SHEET 12

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	Scale AS SHOWN 11 of 22	AS SHOWN 11 of 22	Scale AS SHOWN 11 of 22
No.	Revisions	Date	Inst.	Appr.	Date				

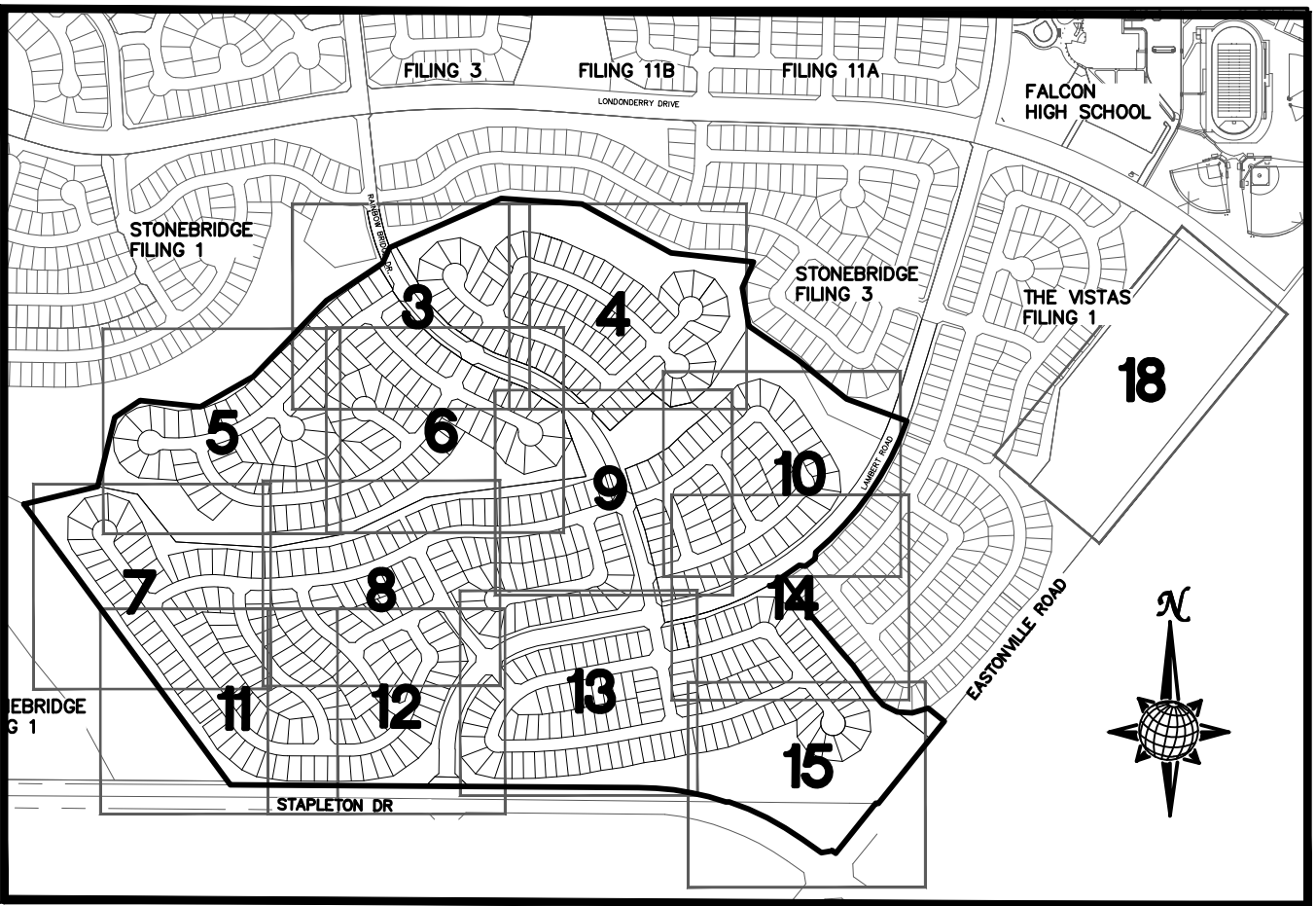




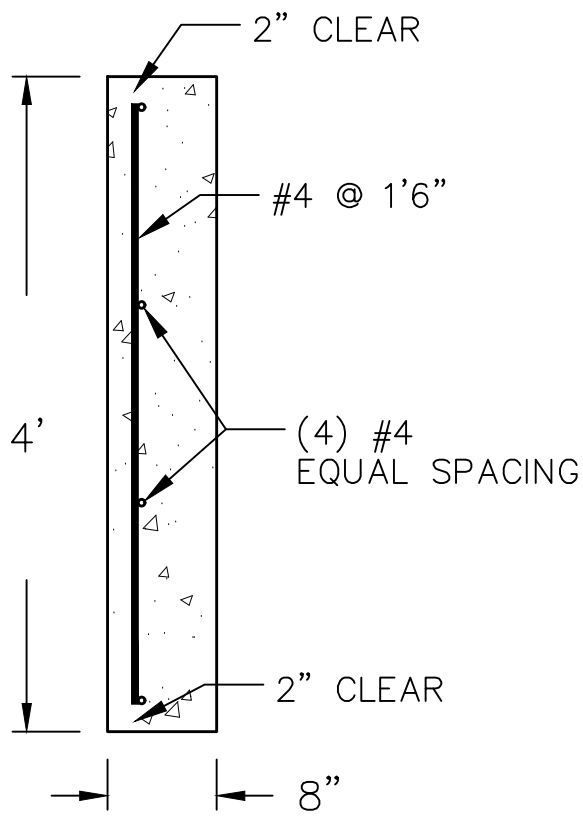
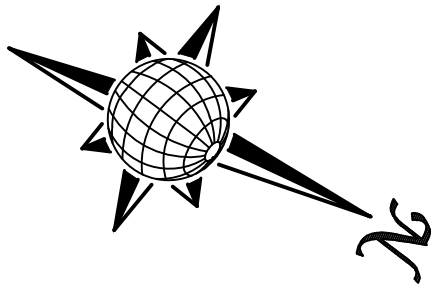
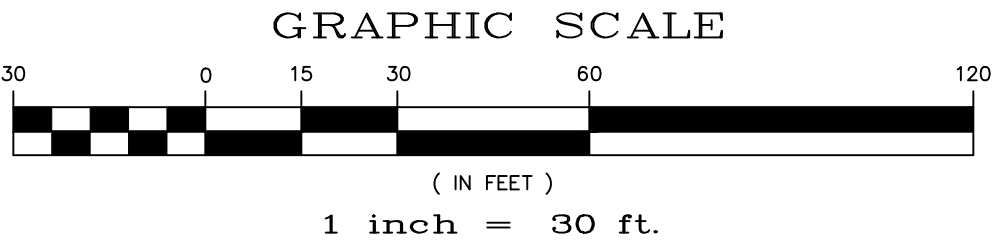




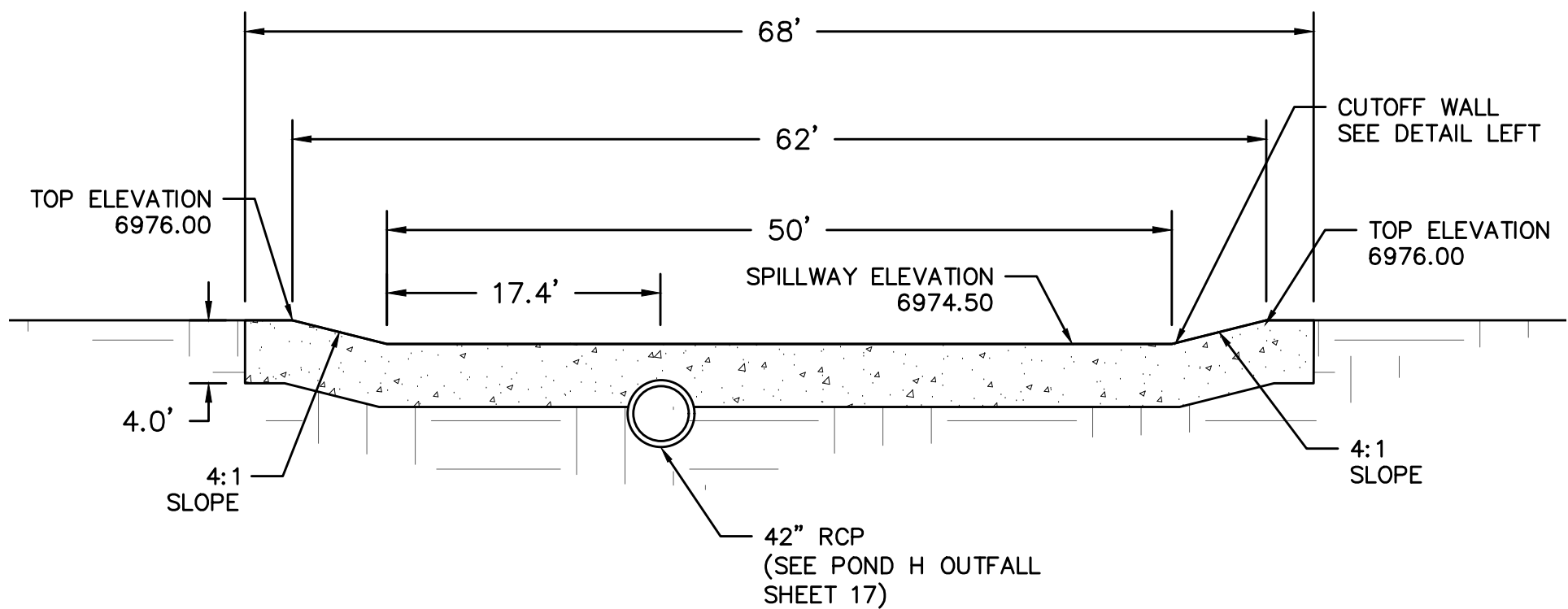
POND CHANNEL
CROSS SECTION DETAIL
NTS



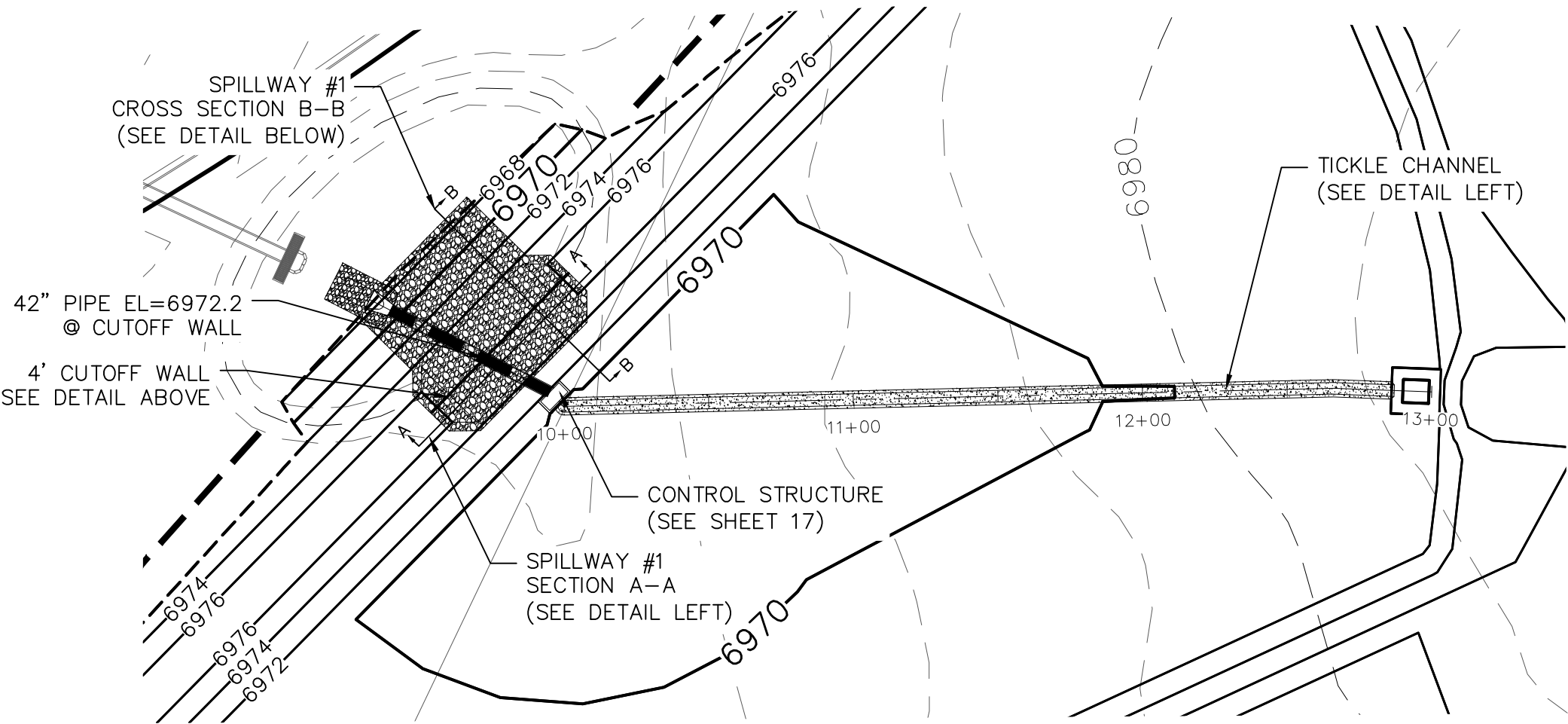
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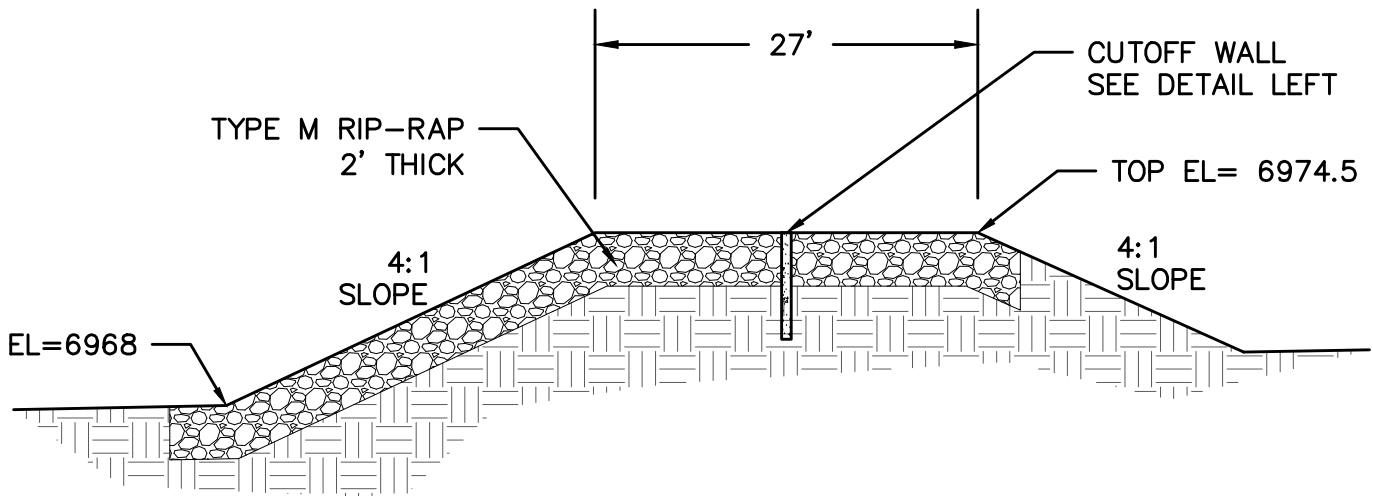
CUTOFF WALL DETAIL
NTS



SPILLWAY #1
SECTION A-A
NTS



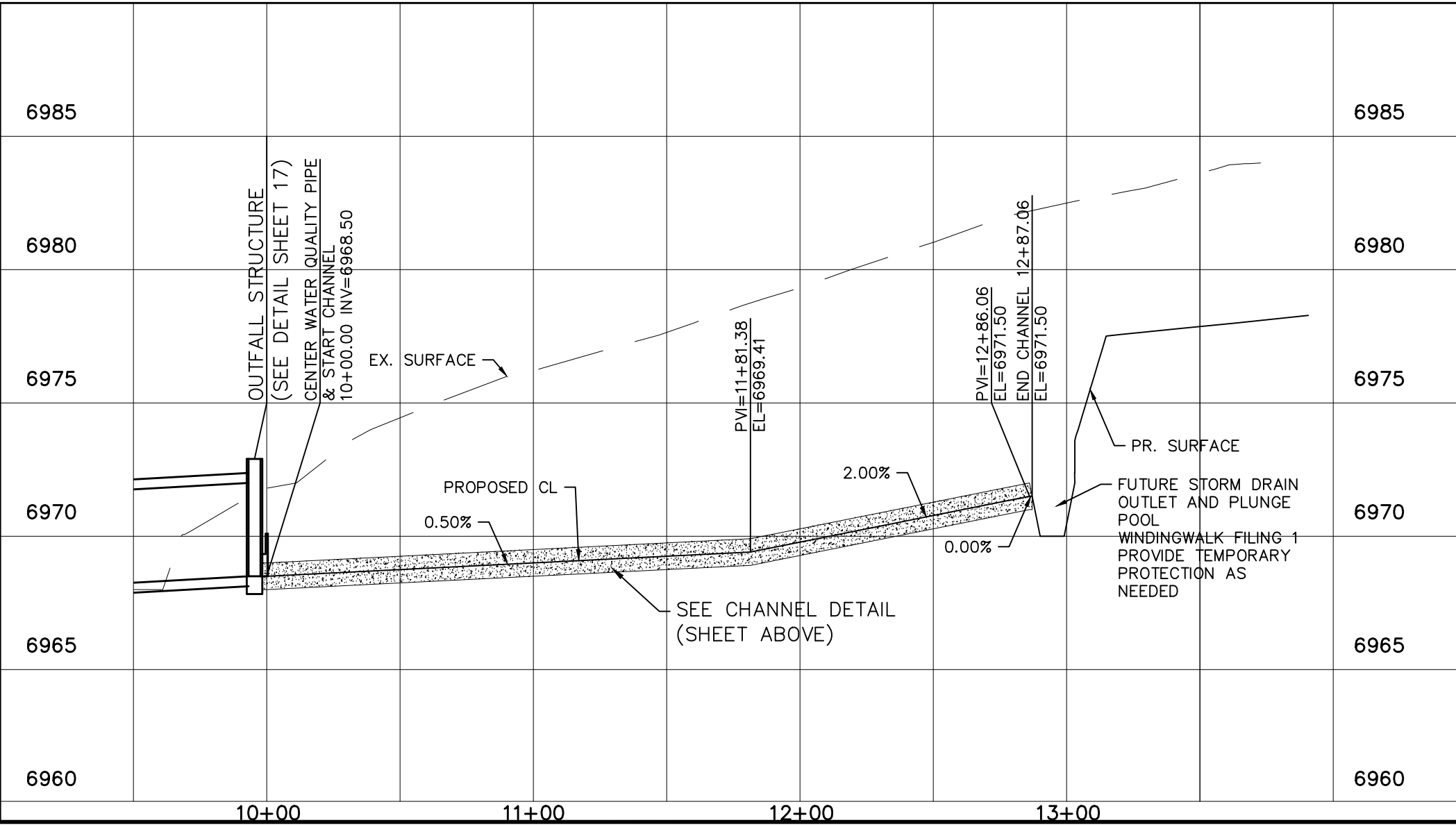
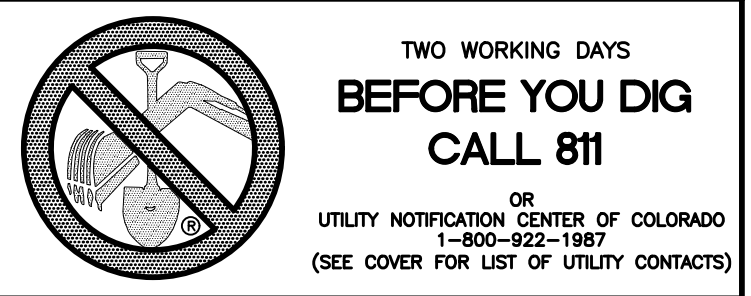
POND H CHANNEL



SPILLWAY #1
CROSS SECTION B-B
NTS

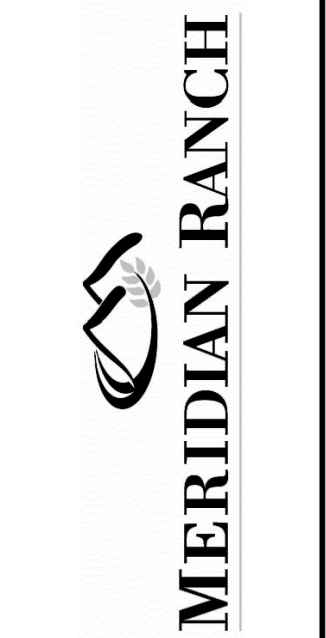
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7)VISTAS FILING 1 AT MERIDIAN RANCH



No.	Revisions	Date	Init.	Appr.	Date

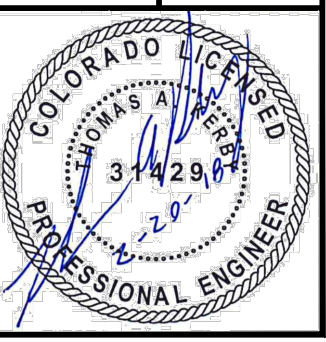
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11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE: 719.495.7444
FAX: 719.495.2457

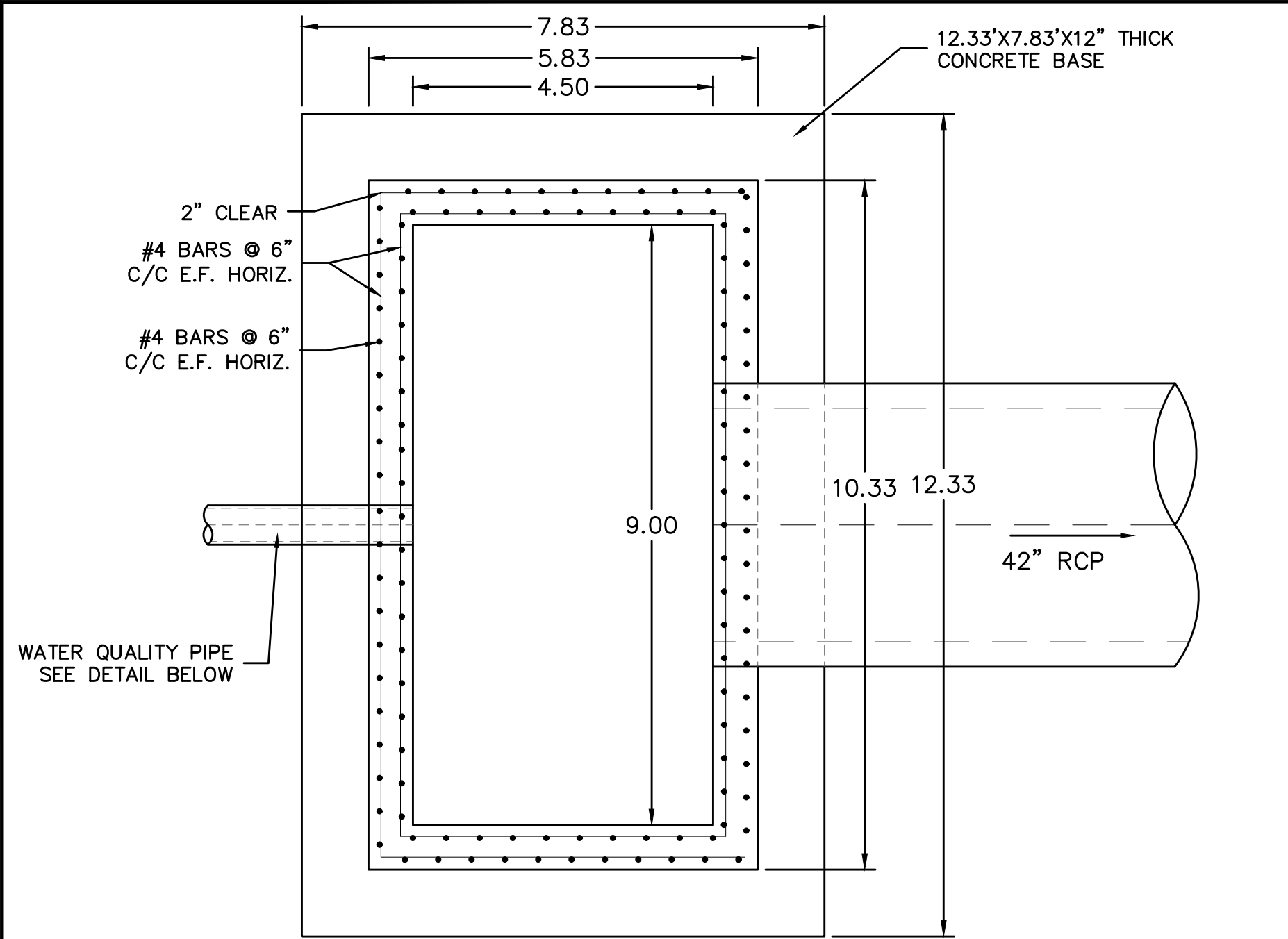


ROUGH GRADING WINDINGWALK
AT MERIDIAN RANCH
ROUGH GRADING/EROSION
CONTROL PLAN
DETAIL SHEET

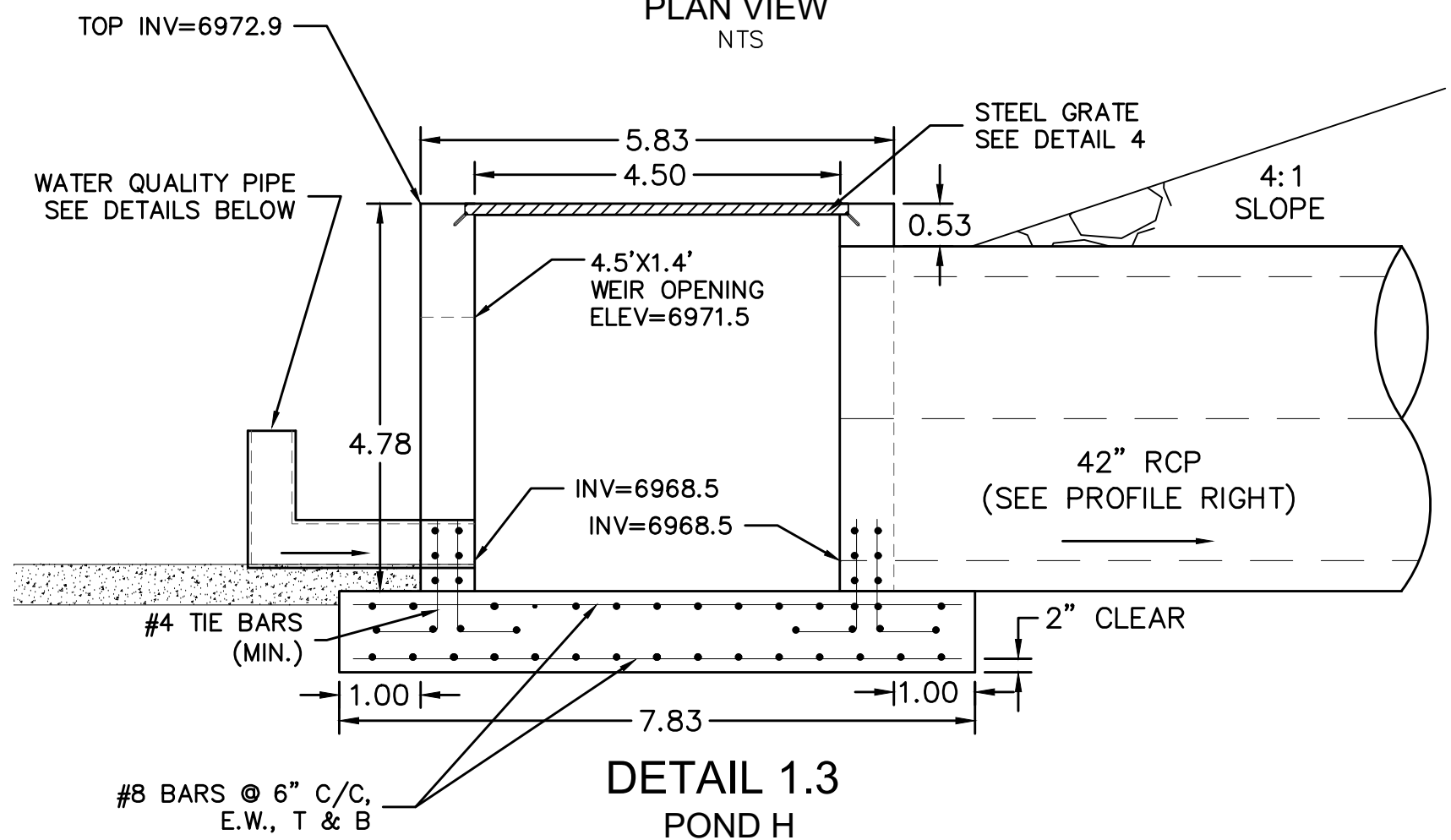
Drawn by
Loc
Checked by
TAK
Date
FEB 2018

Scale
AS SHOWN
16 of 22

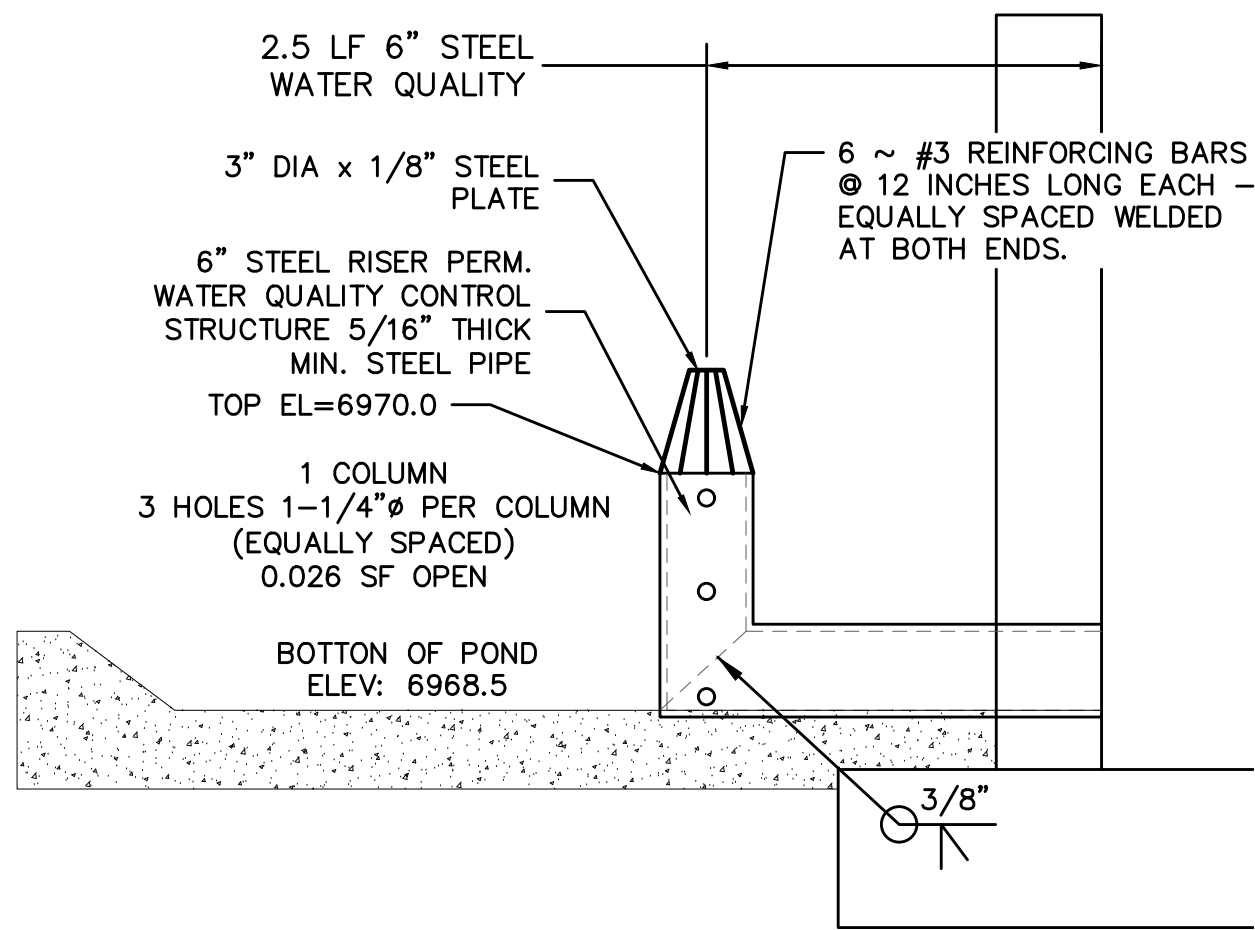




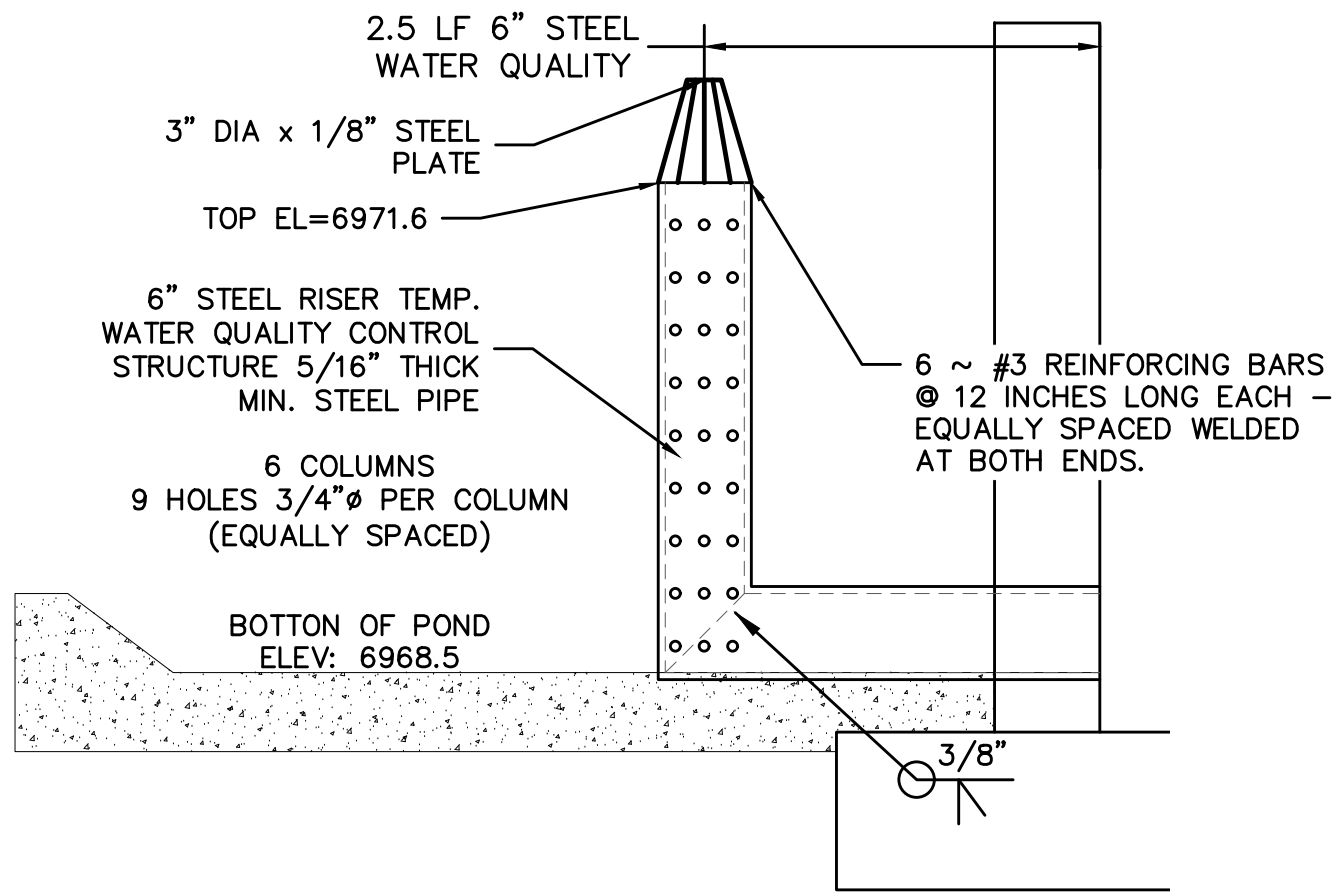
DETAIL 1.1
POND H
CONTROL STRUCTURE
PLAN VIEW
NTS



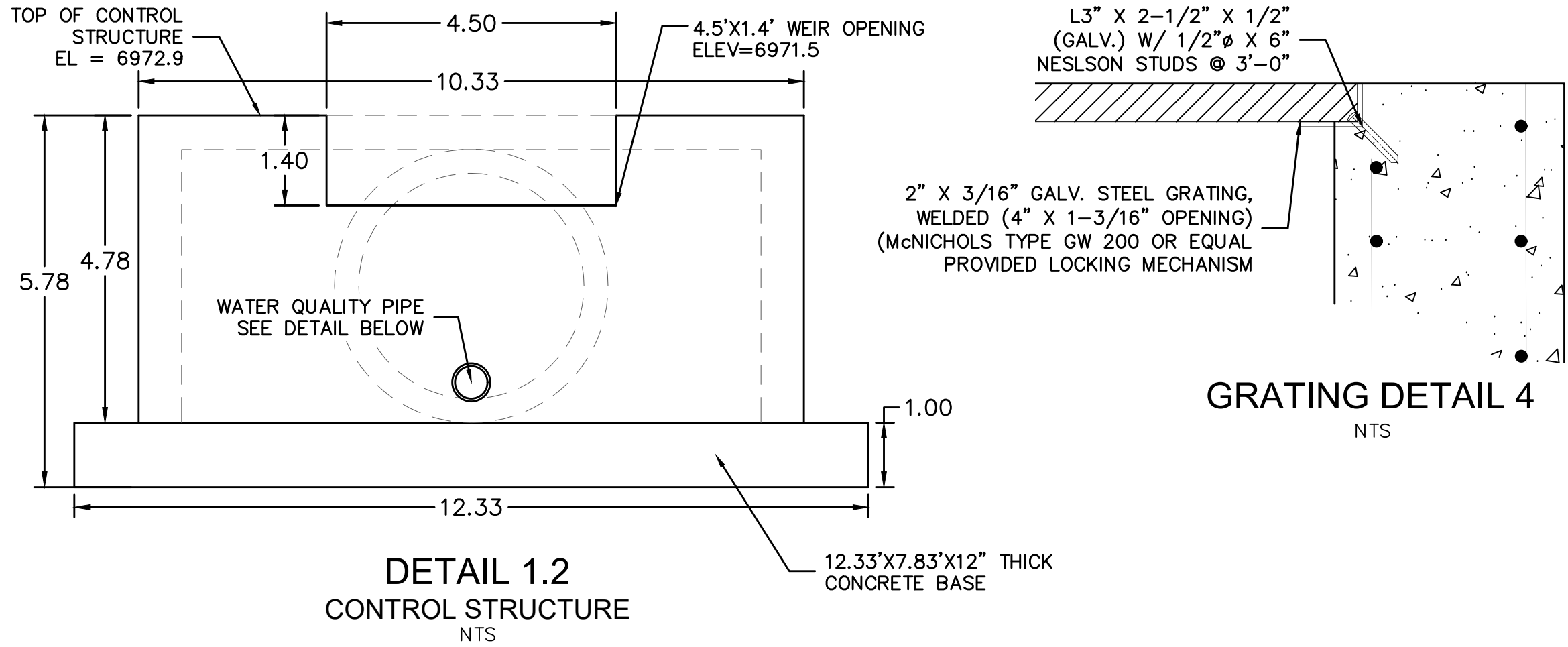
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CONTROL STRUCTURE
NTS



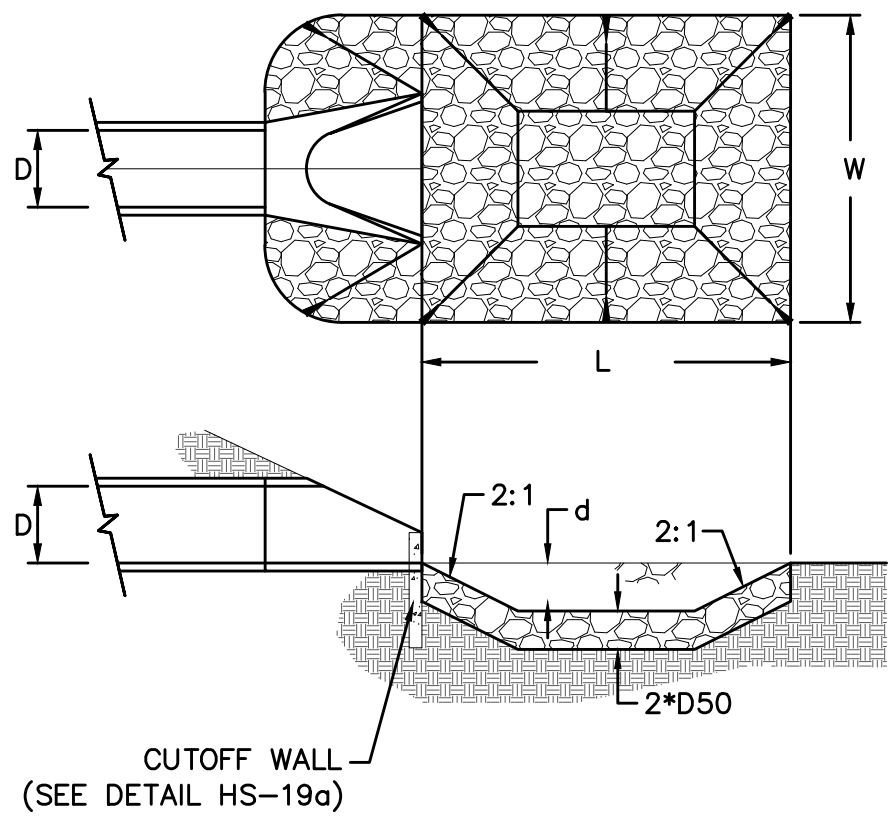
DETAIL 1.4
PERM. WATER QUALITY PIPE
NTS



DETAIL 1.5
TEMP. WATER QUALITY PIPE
NTS



DETAIL 1.2
CONTROL STRUCTURE
NTS



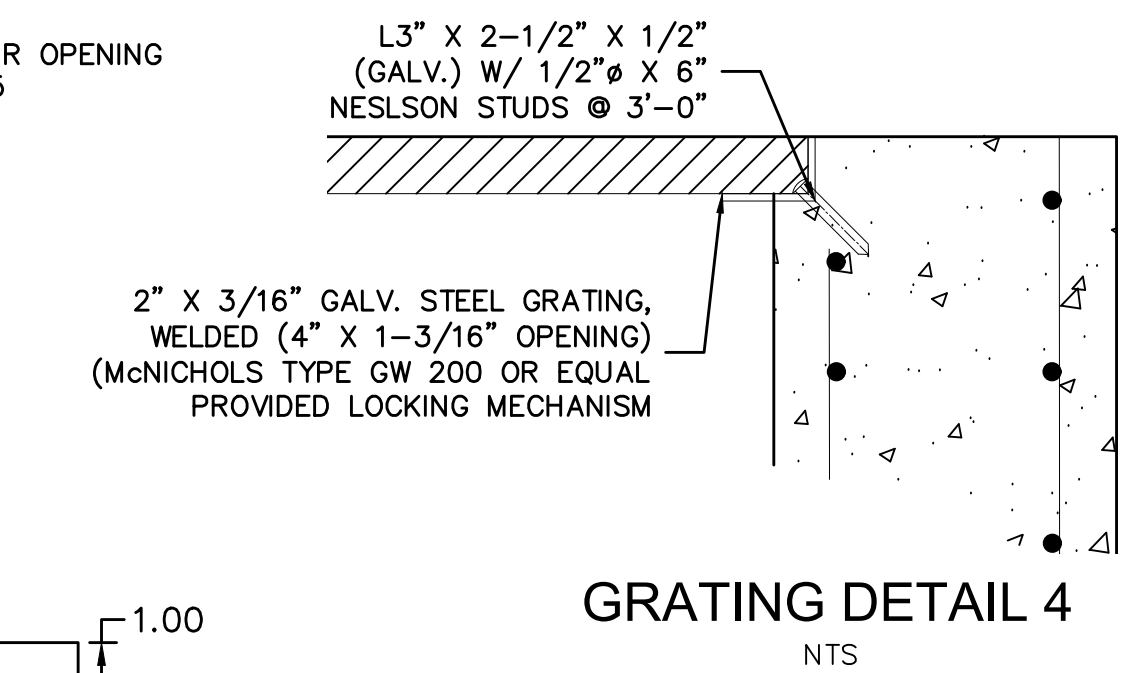
URBAN DRAINAGE AND FLOOD CONTROL DISTRICT (MODIFIED*)
Figure HS-19. Culvert Cutoff Wall
*RIP RAP RECTANGULAR POOL

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

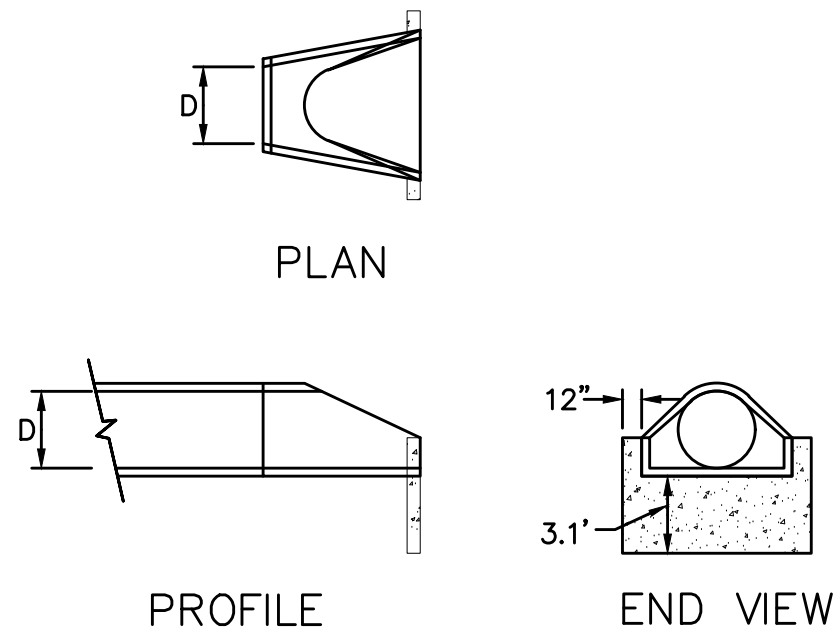
POND H
OUTLET PROTECTION DETAIL
NTS

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

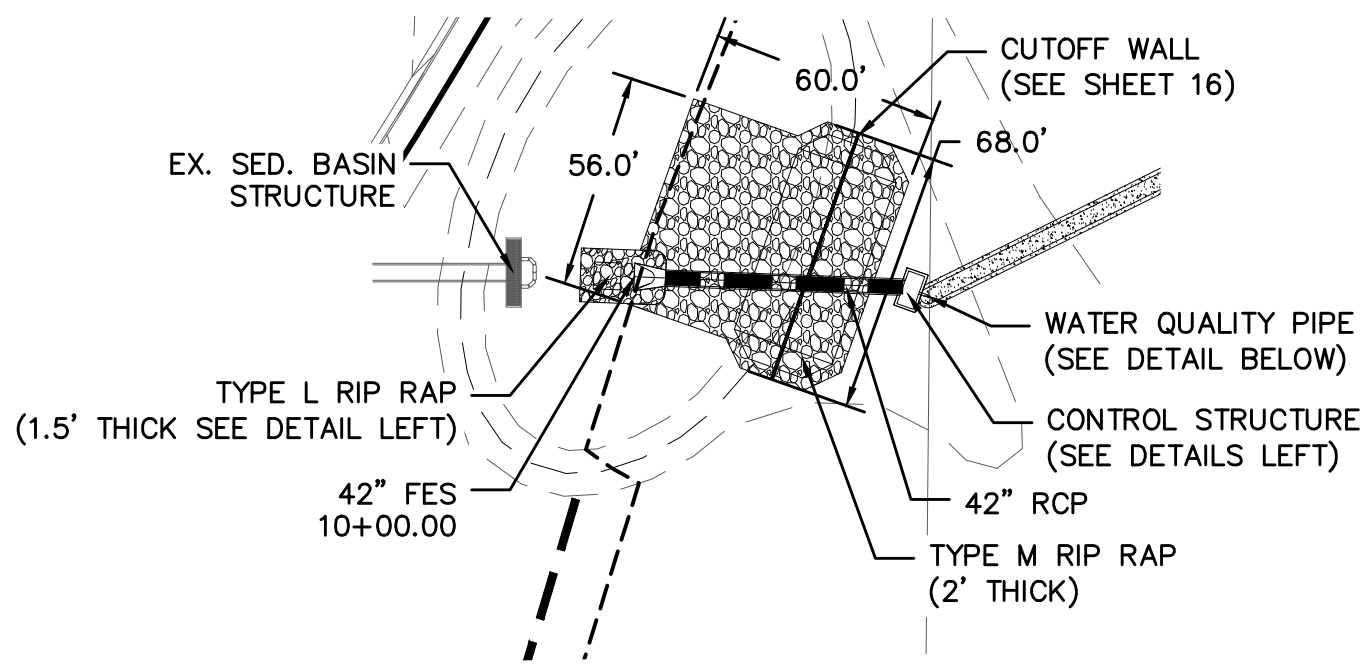
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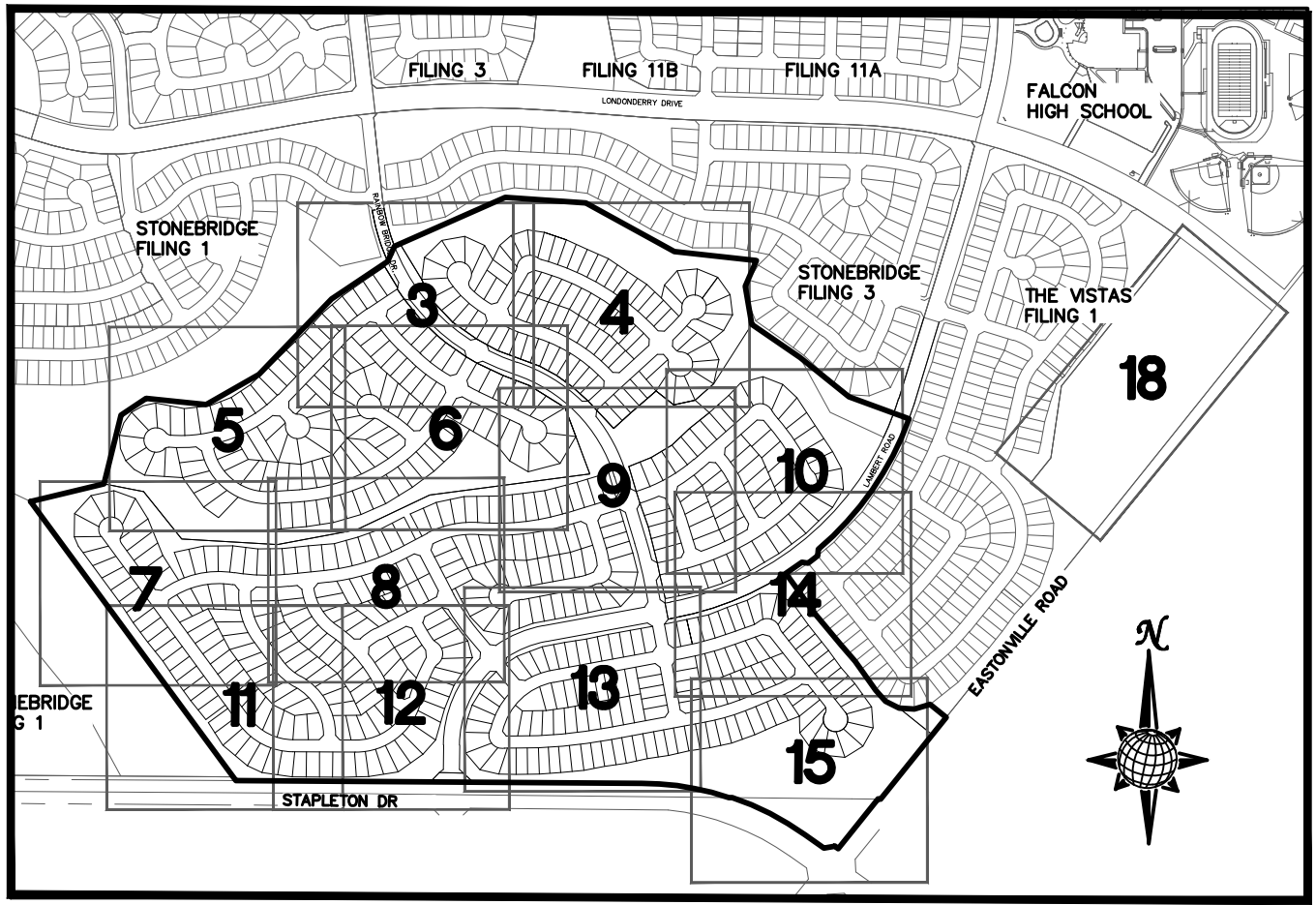
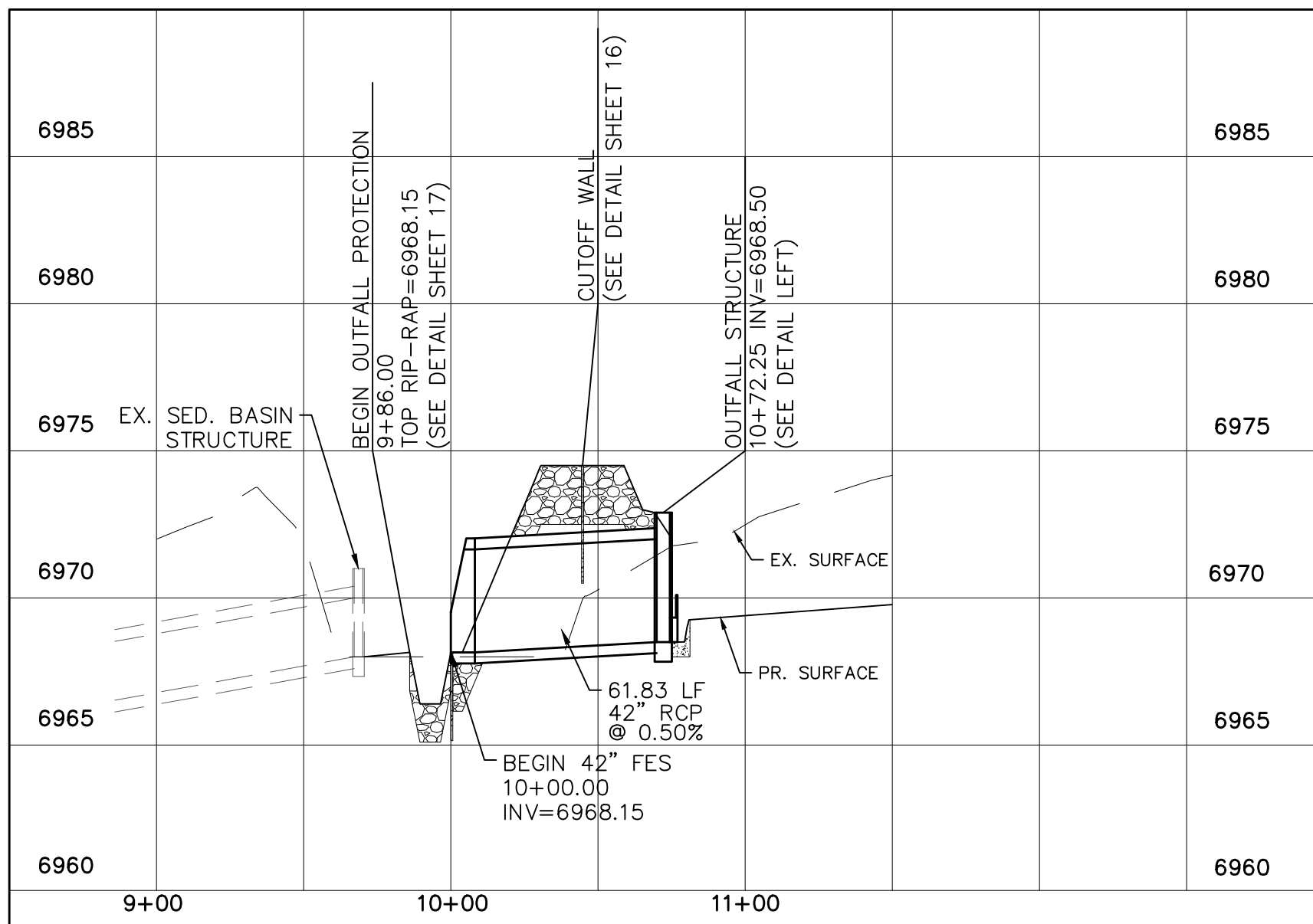
GRATING DETAIL 4
NTS



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



POND H OUTFALL



INDEX MAP
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7)VISTAS FILING 1 AT MERIDIAN RANCH

Date	Appr.	Date	Rev.	No.

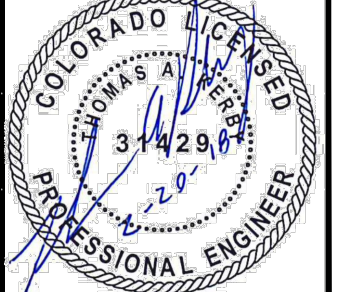
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11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE: 719.495.7444
FAX: 719.495.2457

MERIDIAN RANCH

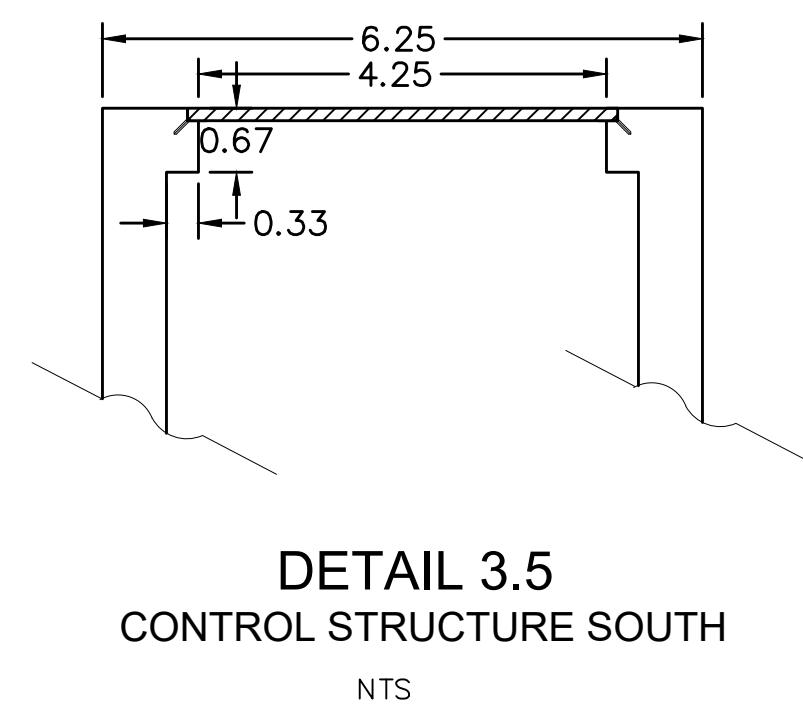
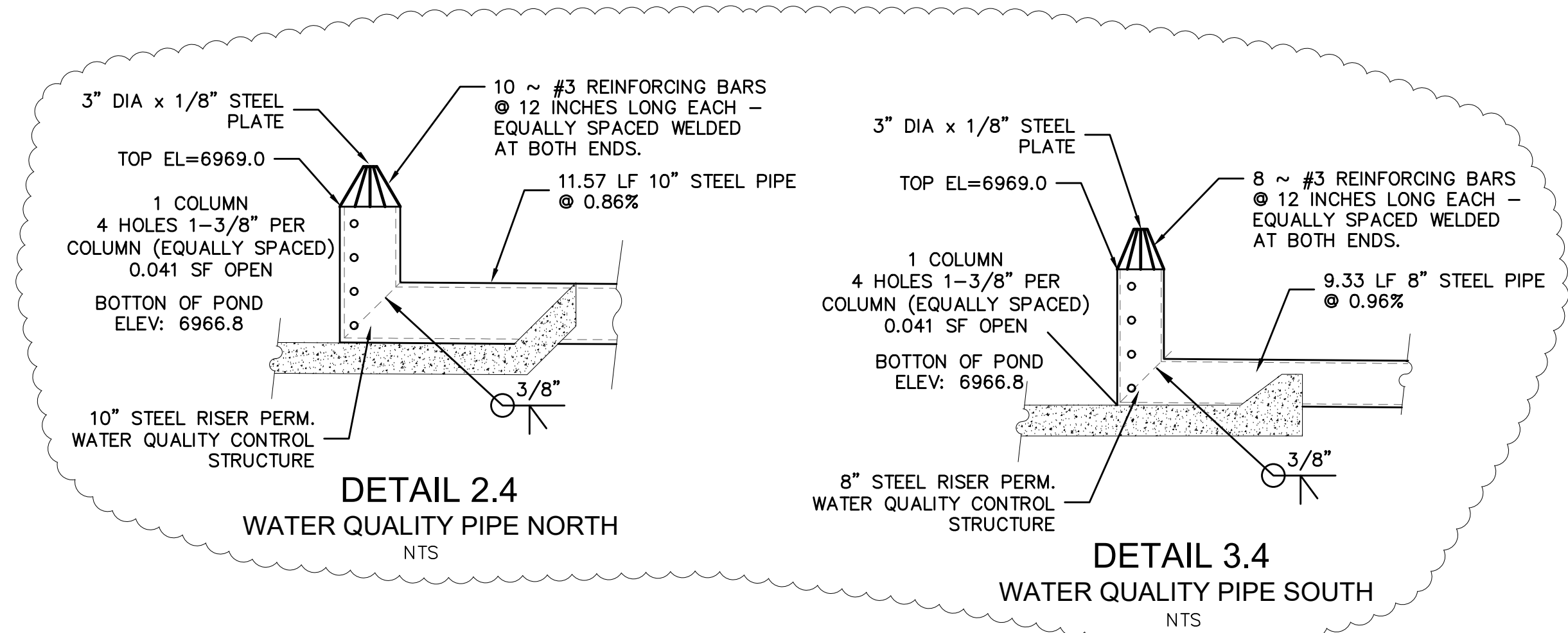
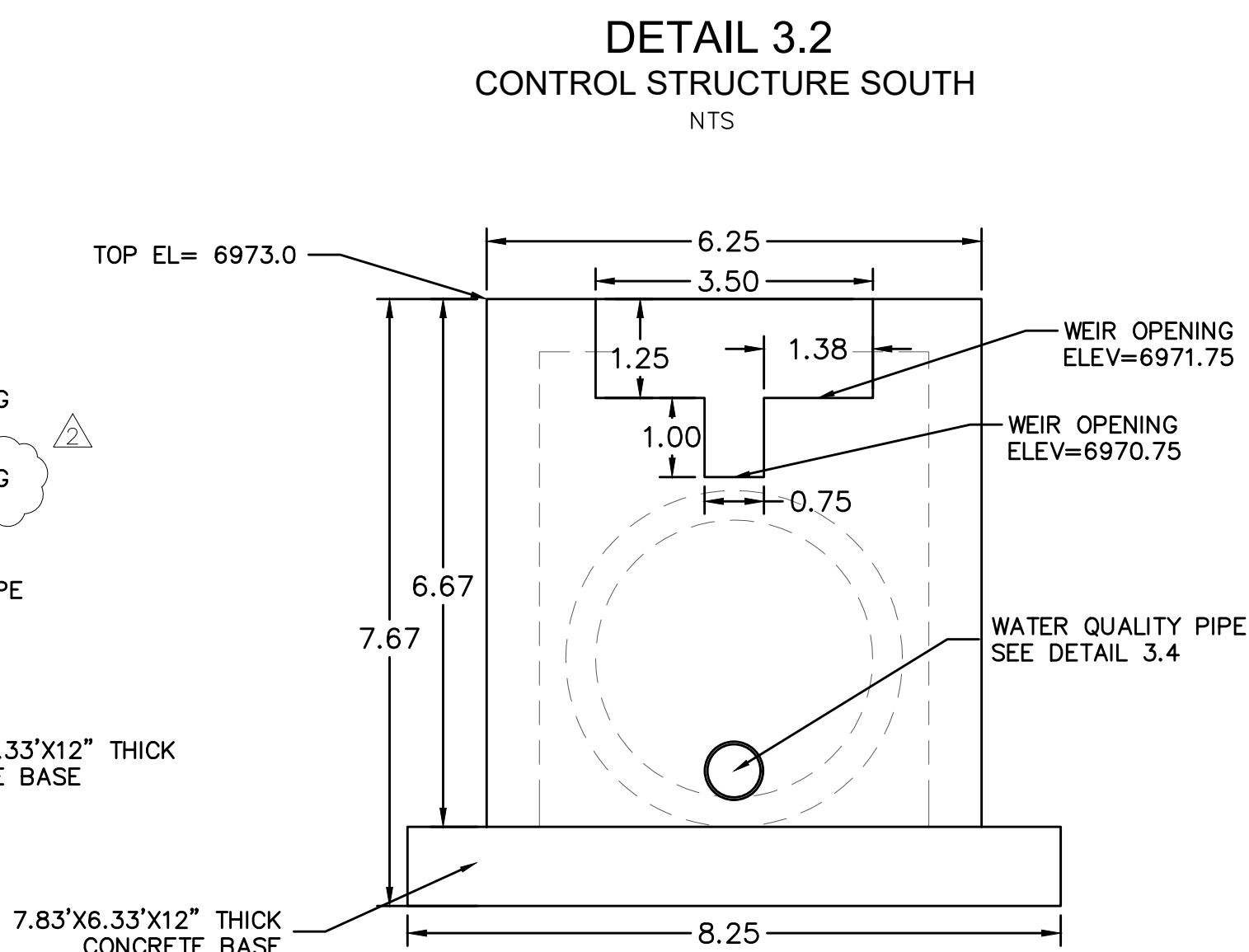
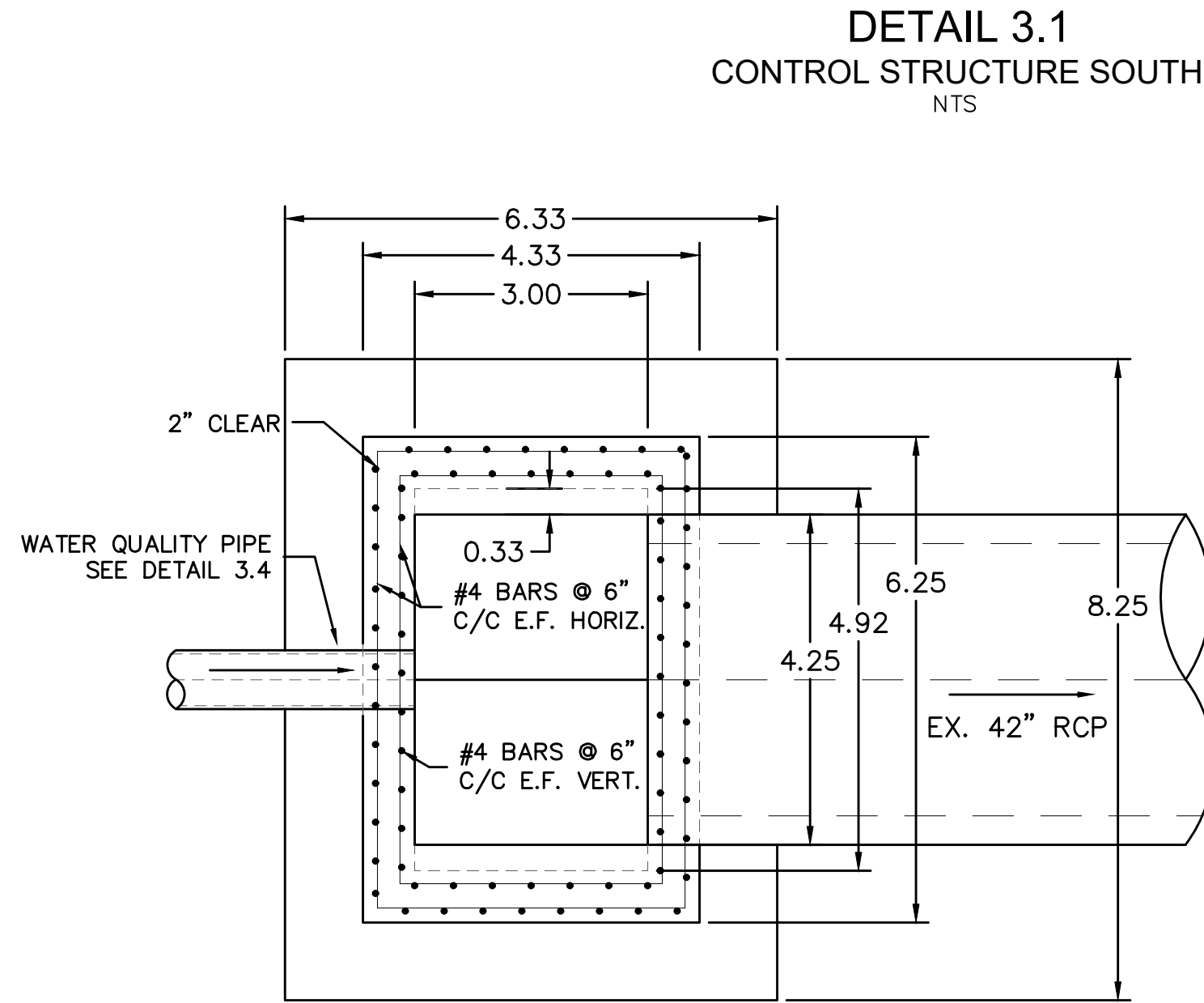
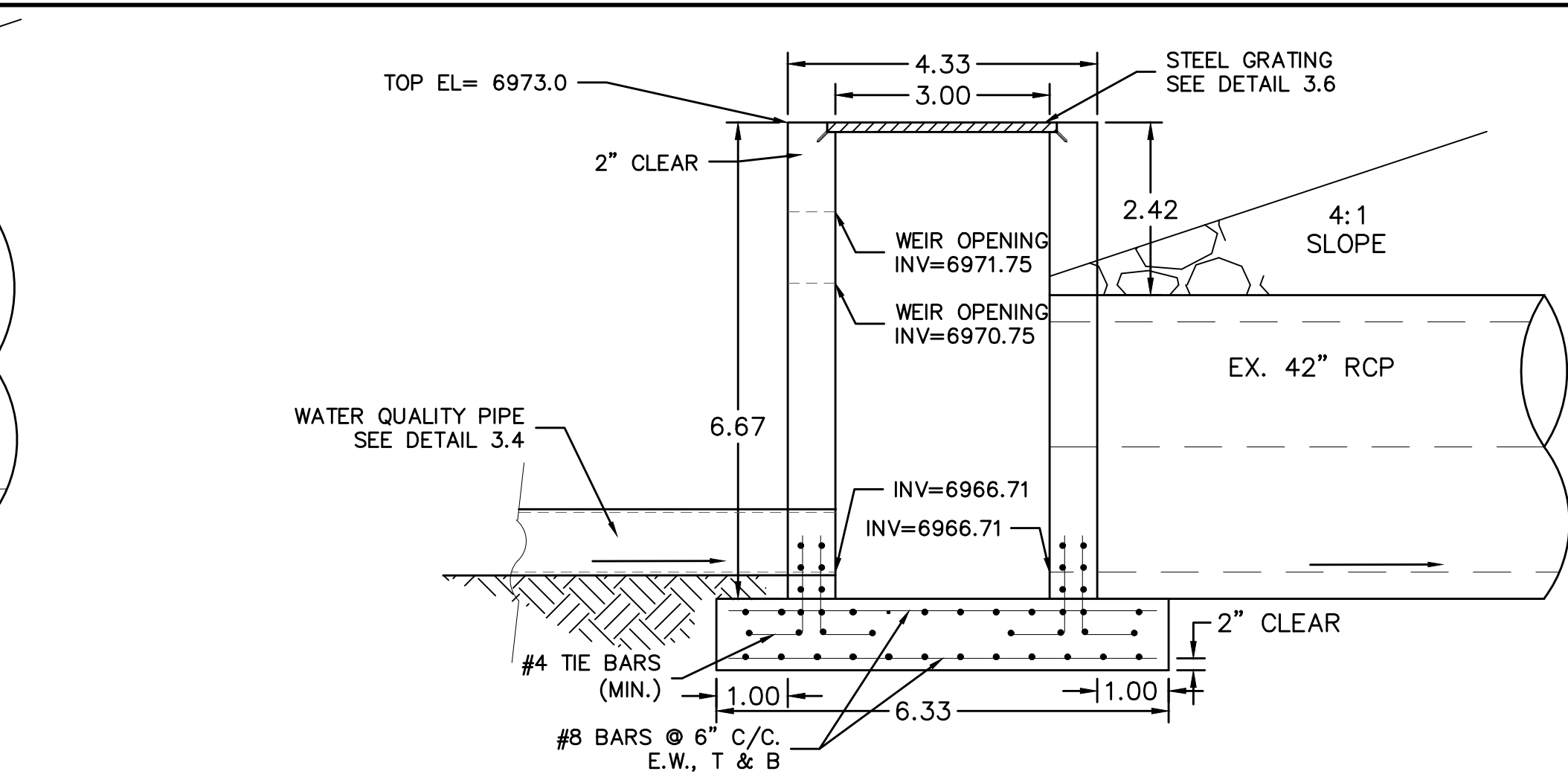
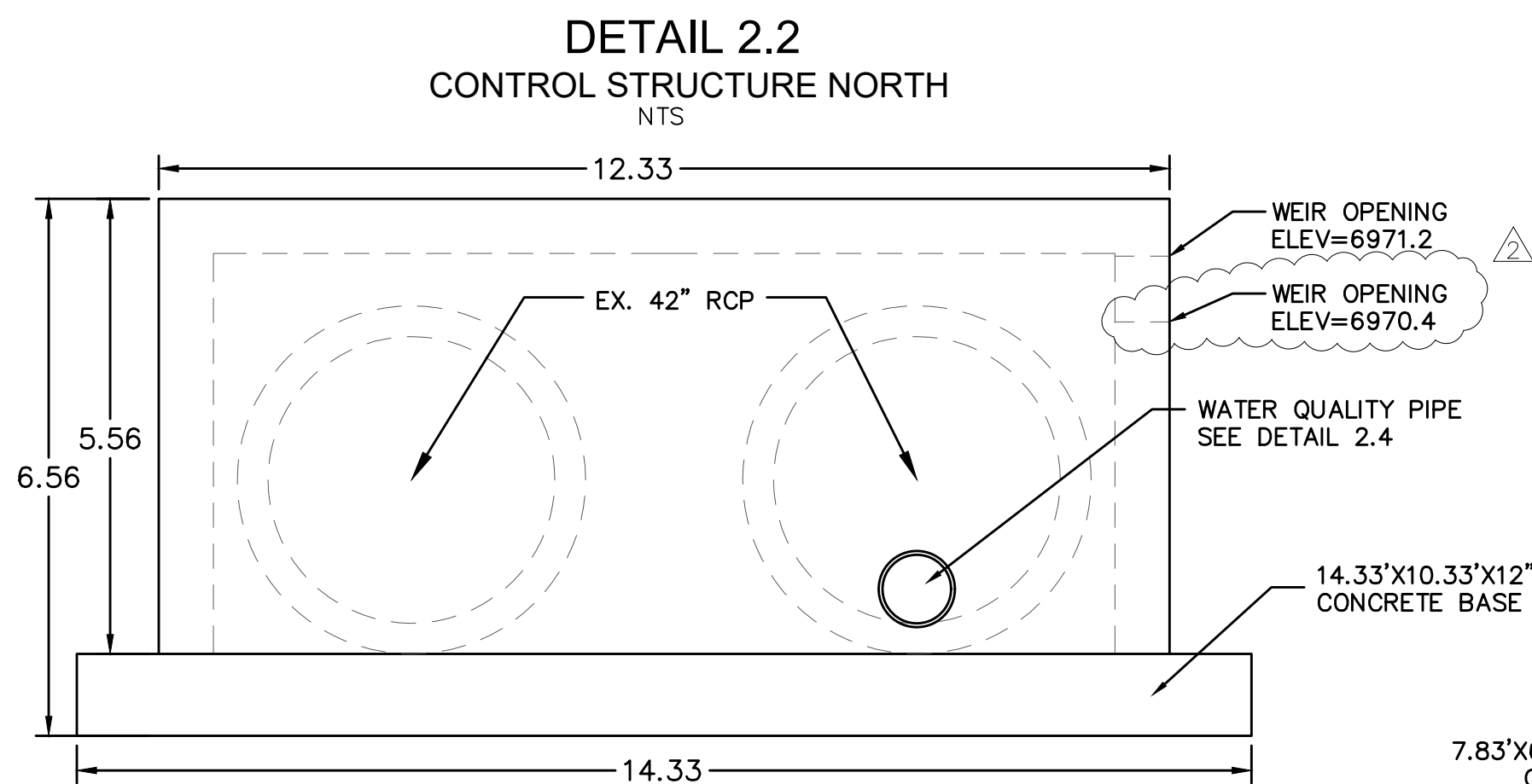
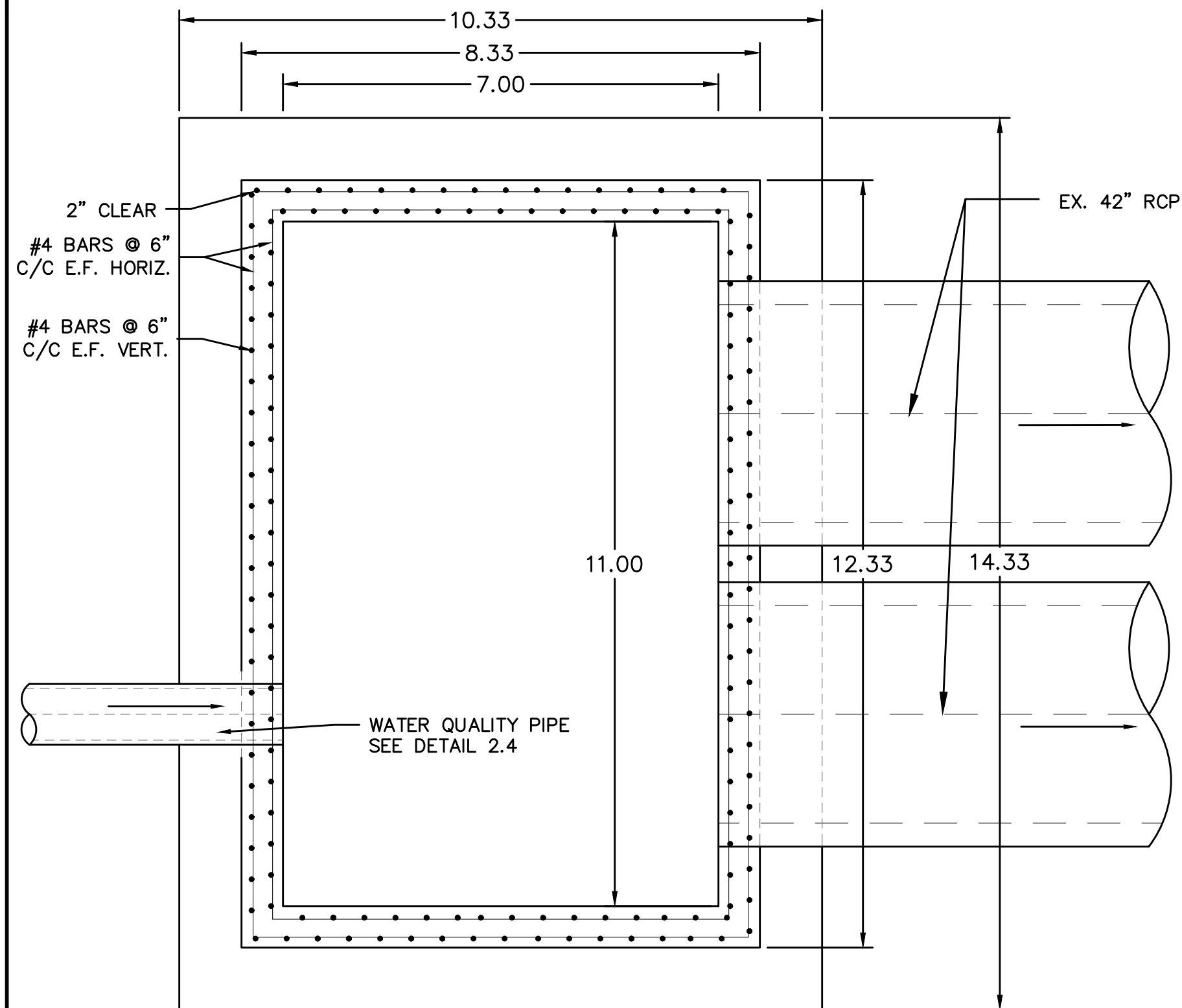
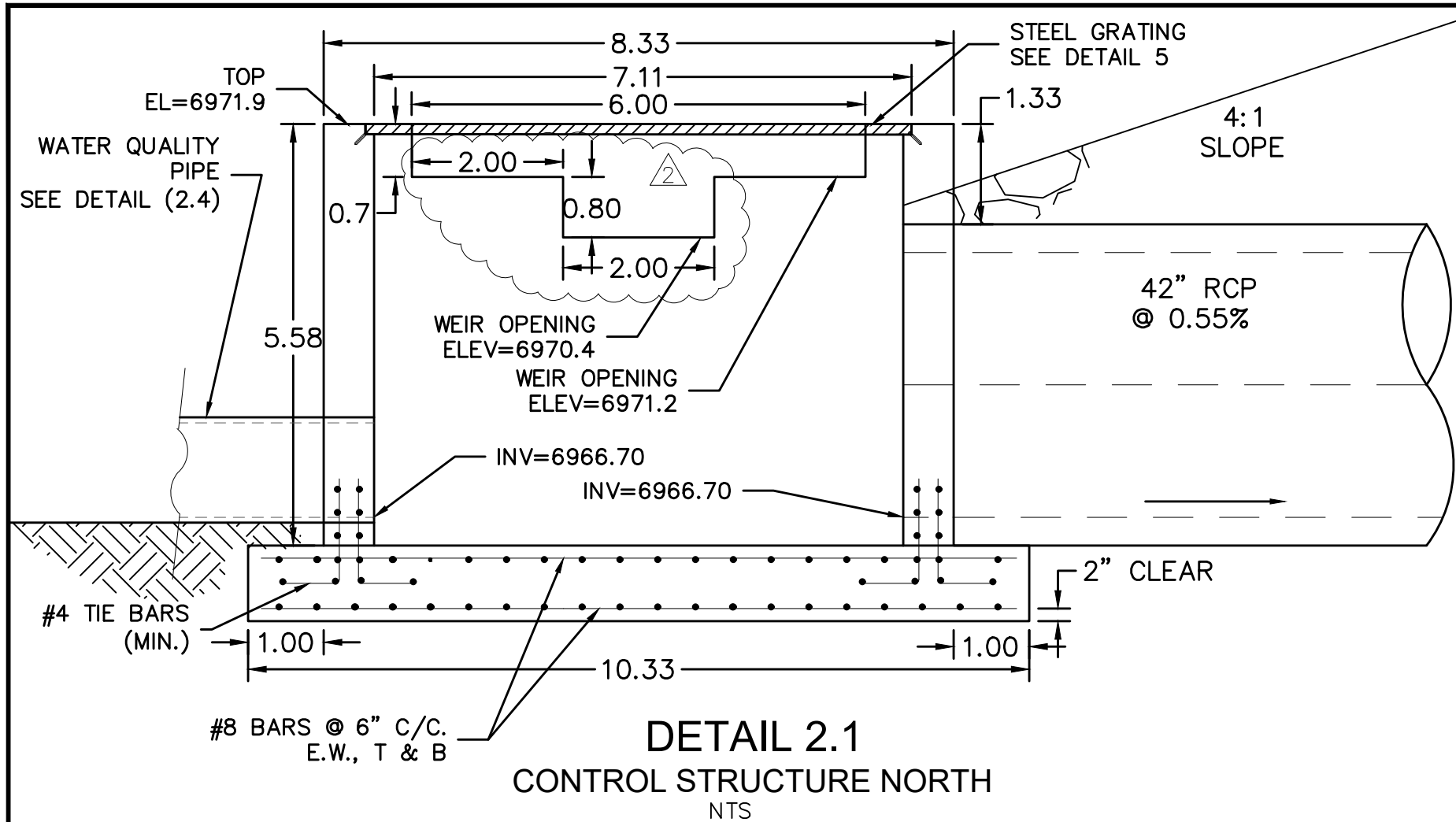
ROUGH GRADING WINDINGWALK
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CONTROL PLAN
DETAIL SHEET

Drawn by
Loc
Checked by
TAK
Date
FEB 2018

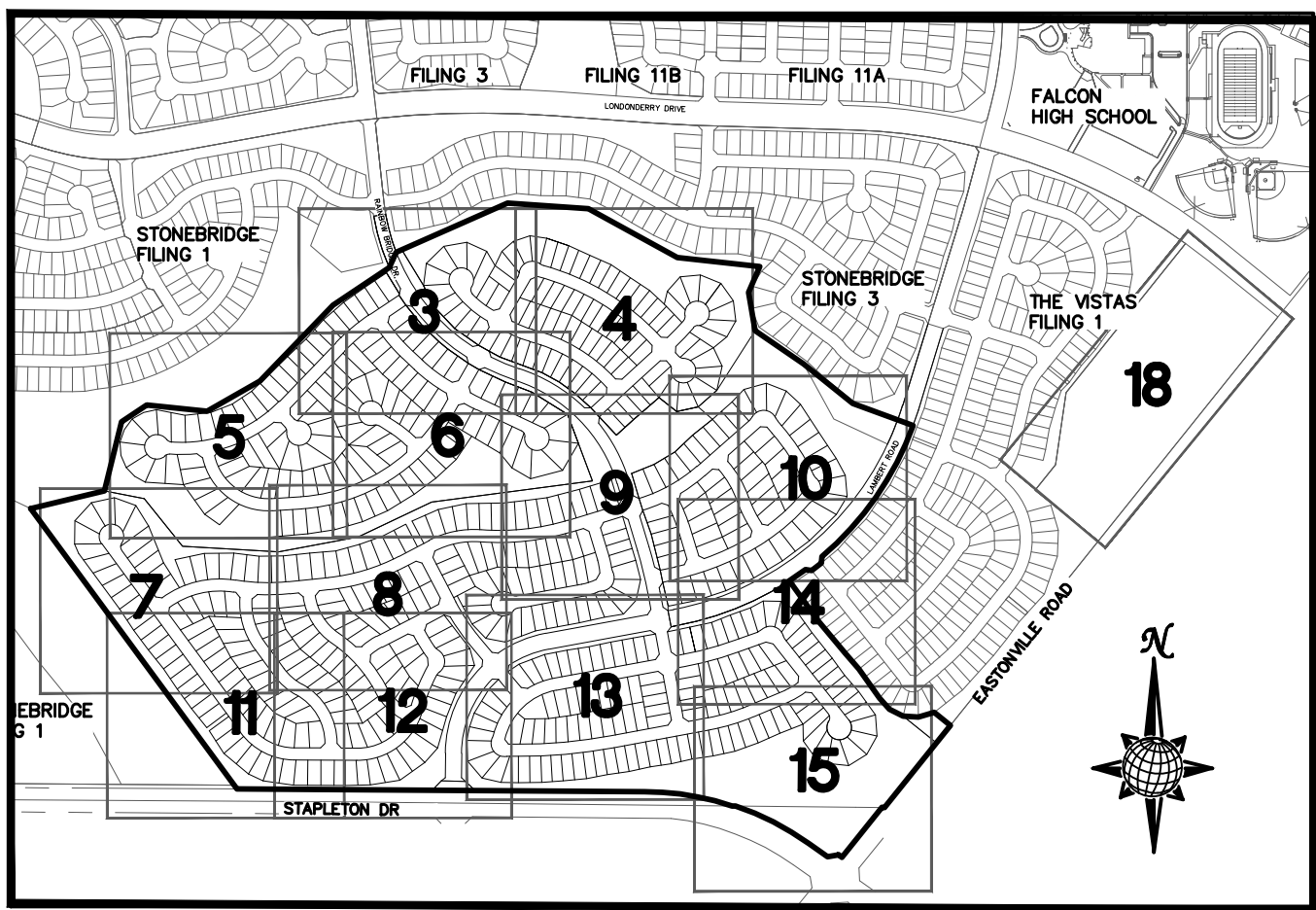
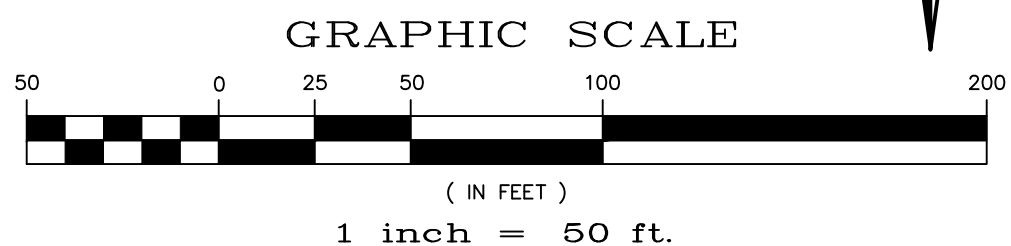
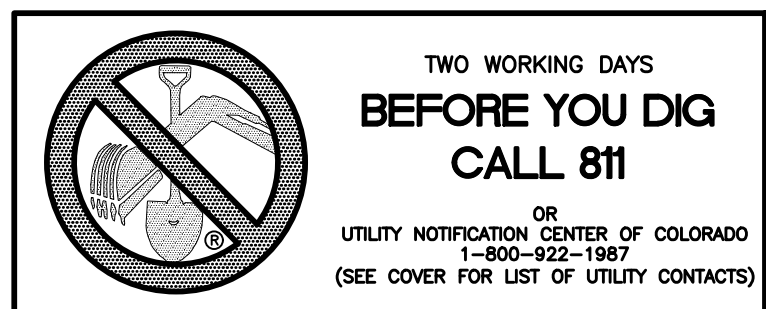
Scale
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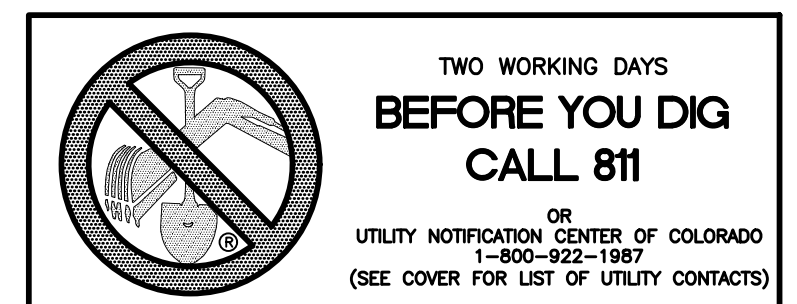
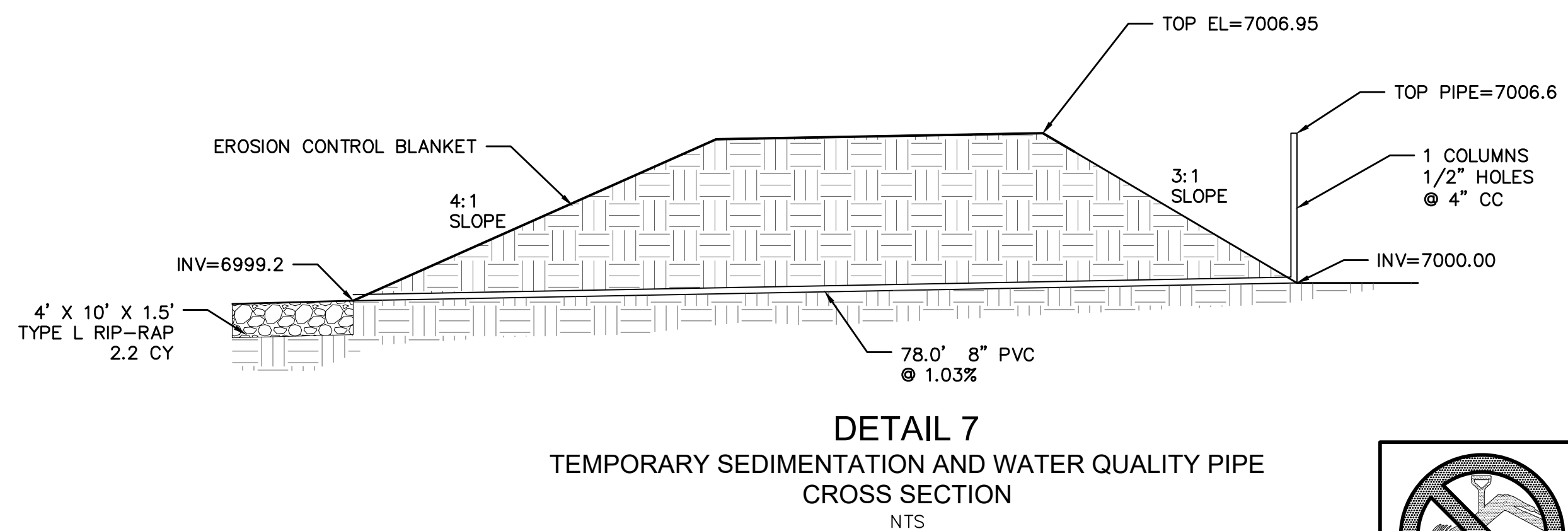
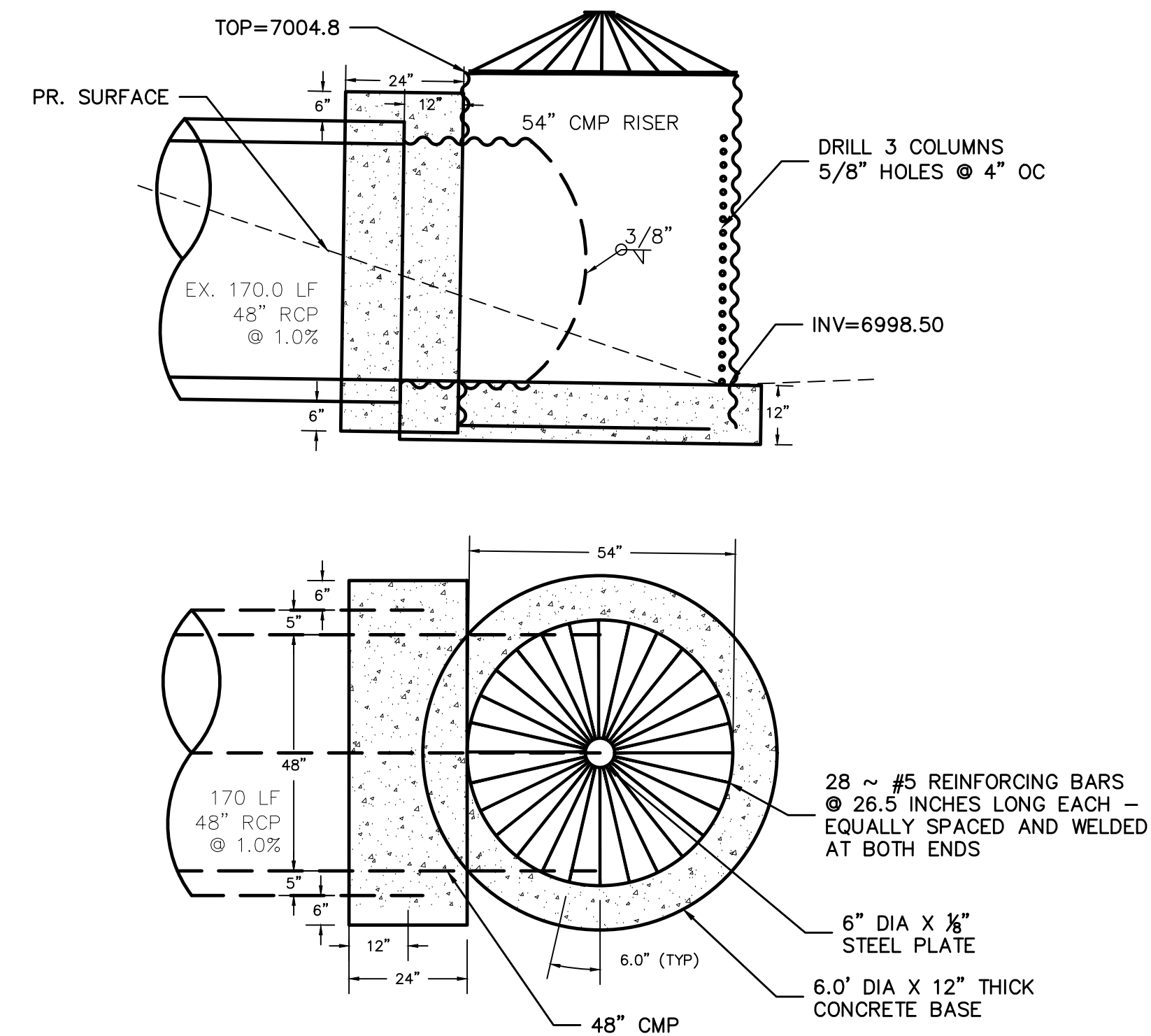
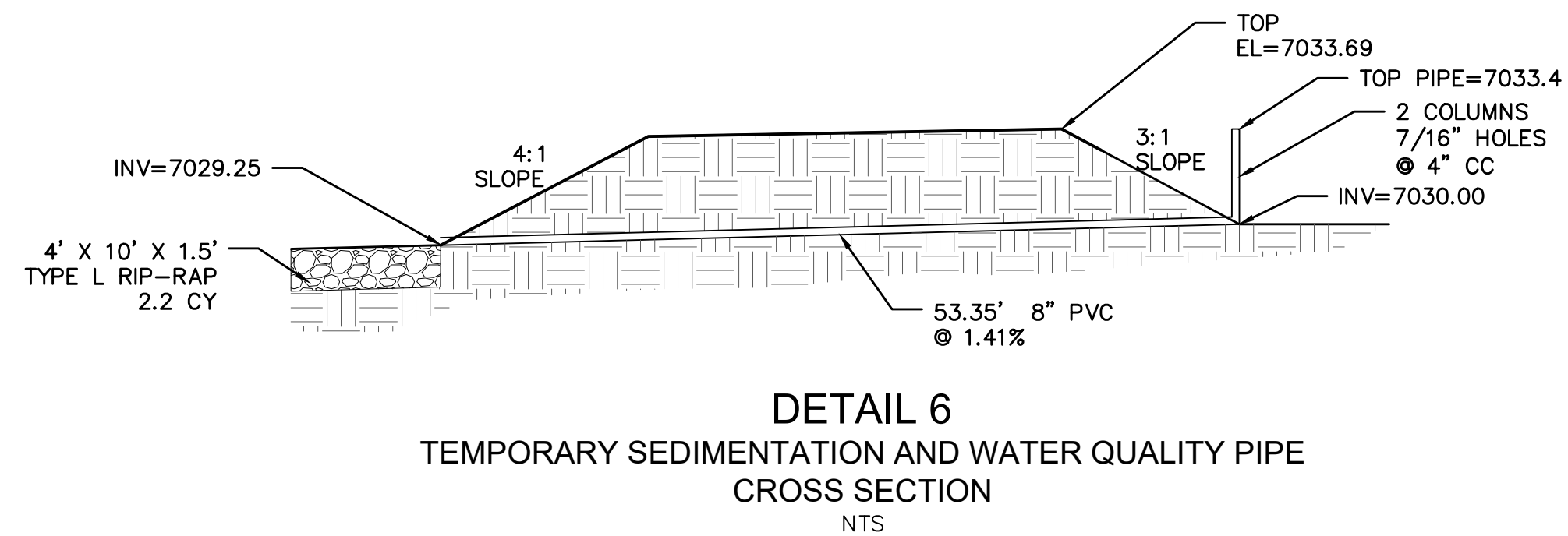
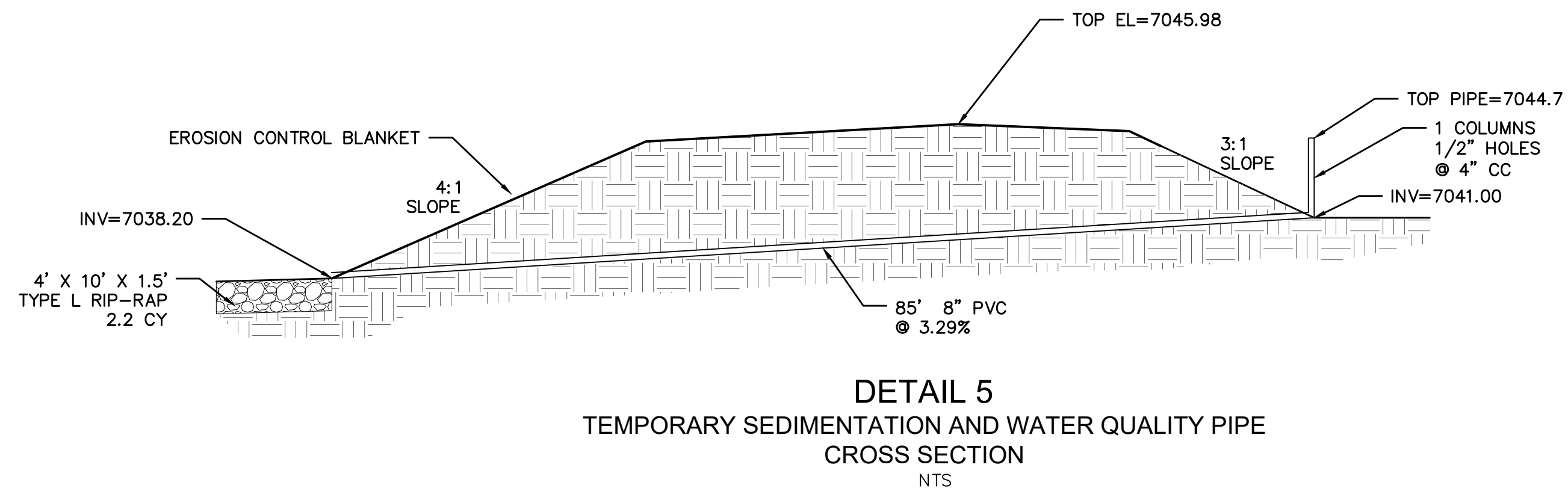
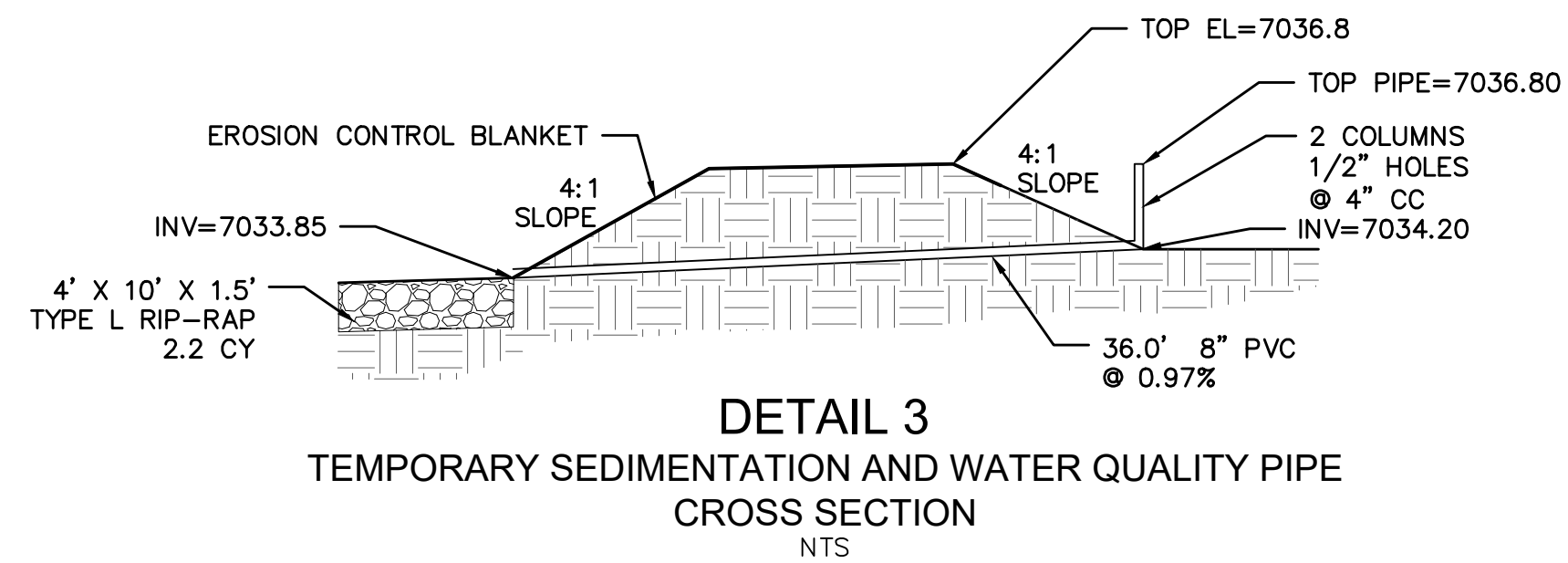
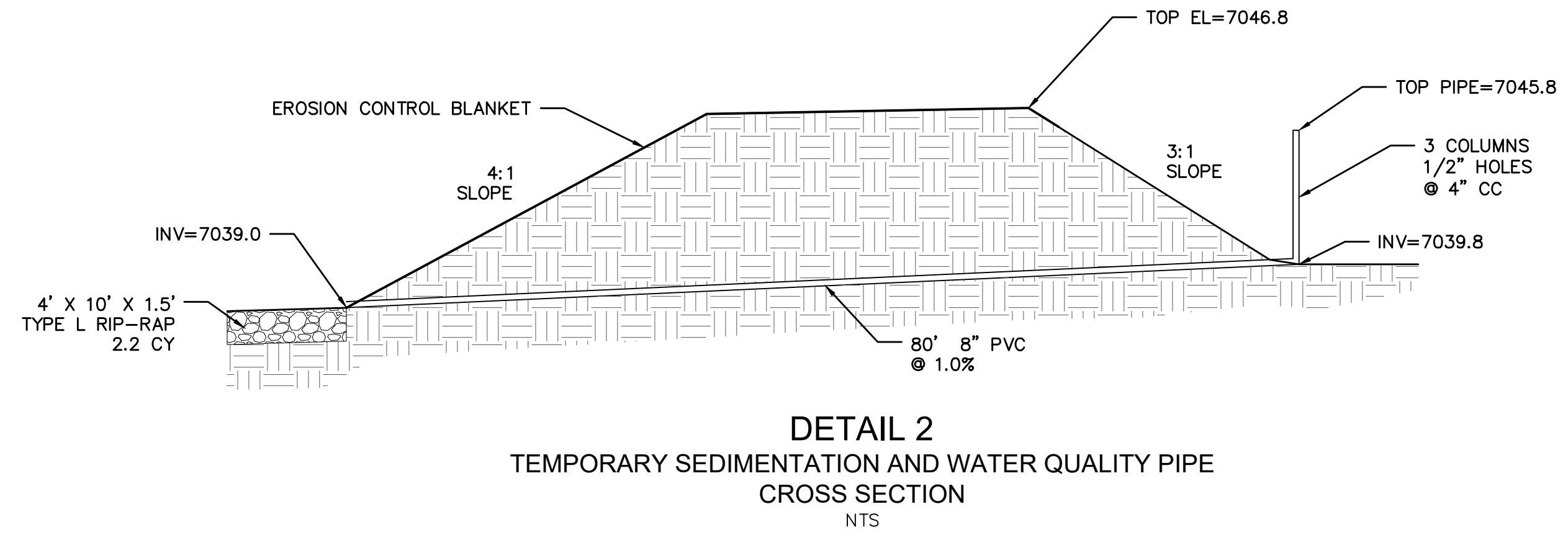
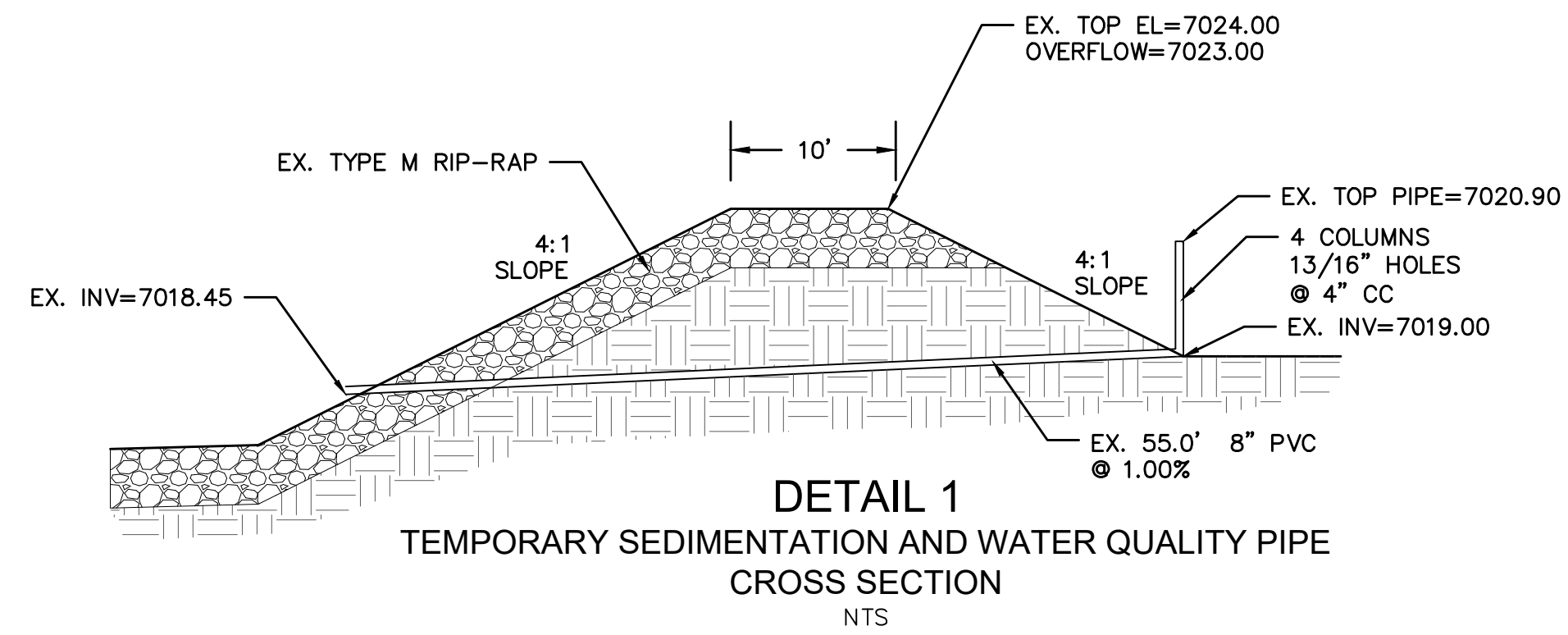
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CONCRETE CONTROL STRUCTURES FOR EXISTING DETENTION POND E ORIGINALLY APPROVED WITH MERIDIAN RANCH FILING 11A GRADING AND EROSION CONTROL PLANS DATED 09/09/2013. STRUCTURES MODIFIED FROM ORIGINAL DESIGN TO ACCOMMODATE THE UPDATED HYDROLOGIC MODELS ASSOCIATED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



Revisions		Date	Appr.	Date
No.				
1	REVISED GRADES (SH 8 AND 12)			
2	REVISED NORTH STRUC AND WQ OUTLETS (2.1, 2.4, 3.4) (SH 19)			
TECH CONTRACTORS 11886 STAPLETON DRIVE FALCON, CO 80831 TELEPHONE: 719.495.7444 FAX: 719.495.2457				
MERIDIAN RANCH				
ROUGH GRADING WINDING WALK AT MERIDIAN RANCH ROUGH GRADING/EROSION CONTROL PLAN DETAIL SHEET				
Drawn by	LCA	Checked by	TAK	Date
Scale	AS SHOWN	19	of	22
FEB 2018				
PROFESSIONAL ENGINEER				

[illegible]

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



MERIDIAN RANCH

**ROUGH GRADING WINDING WALK
AT MERIDIAN RANCH
ROUGH GRADING+EROSION
CONTROL PLAN
DETAIL SHEET**

Drawn by
LCG

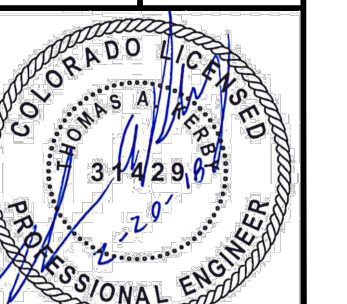
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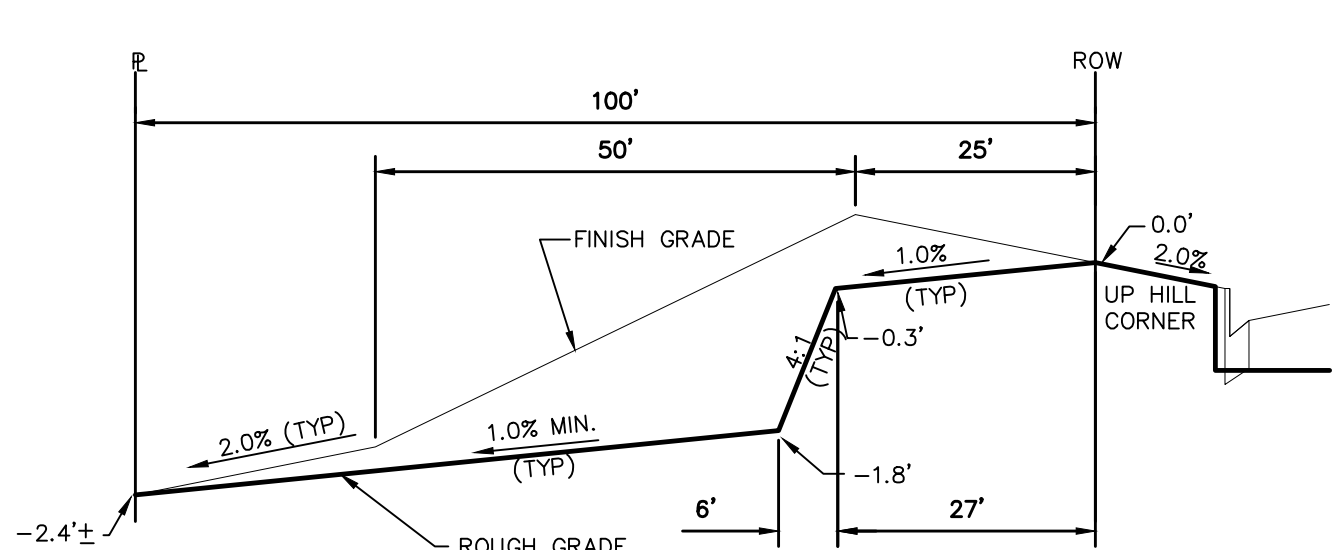
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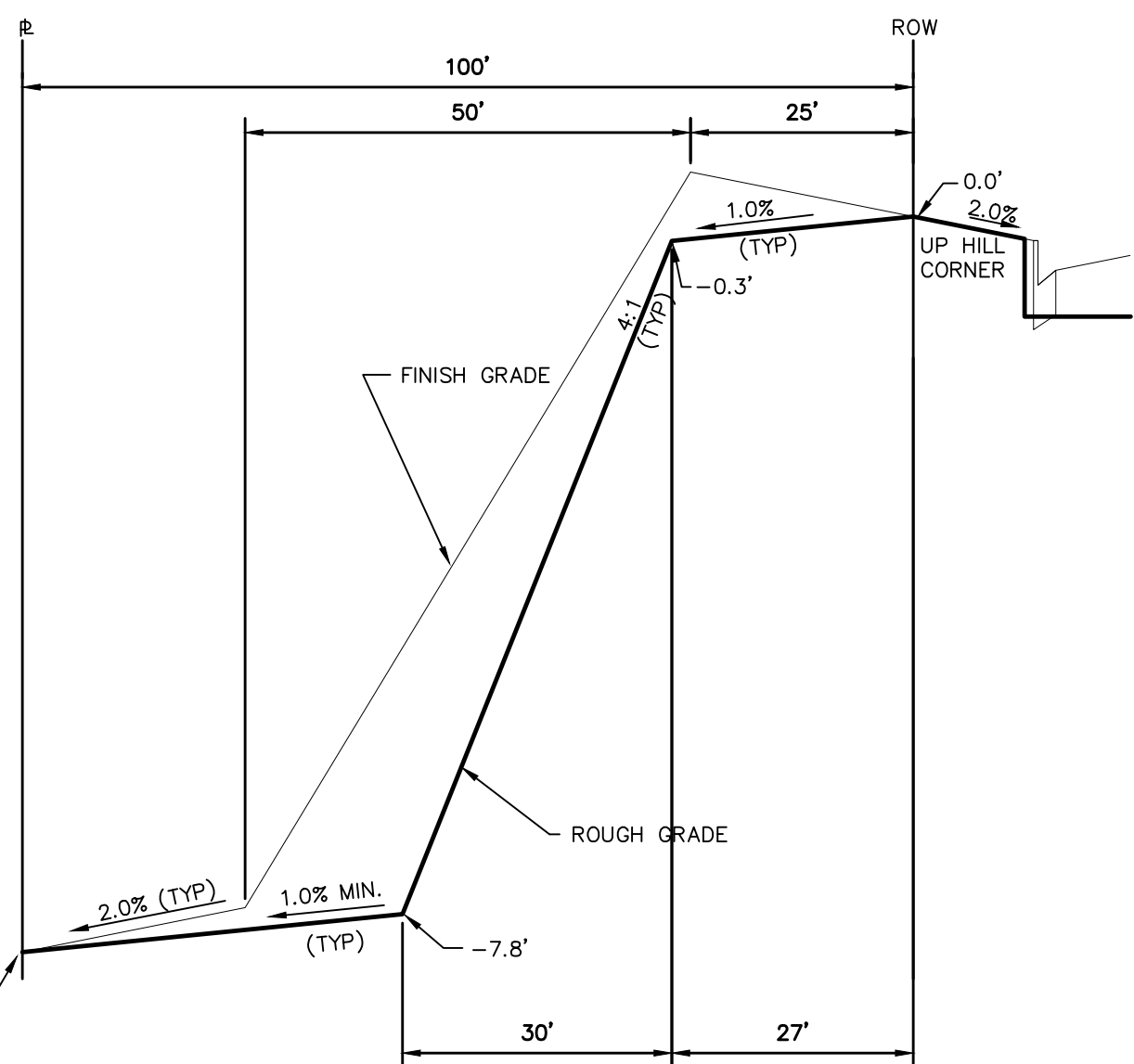
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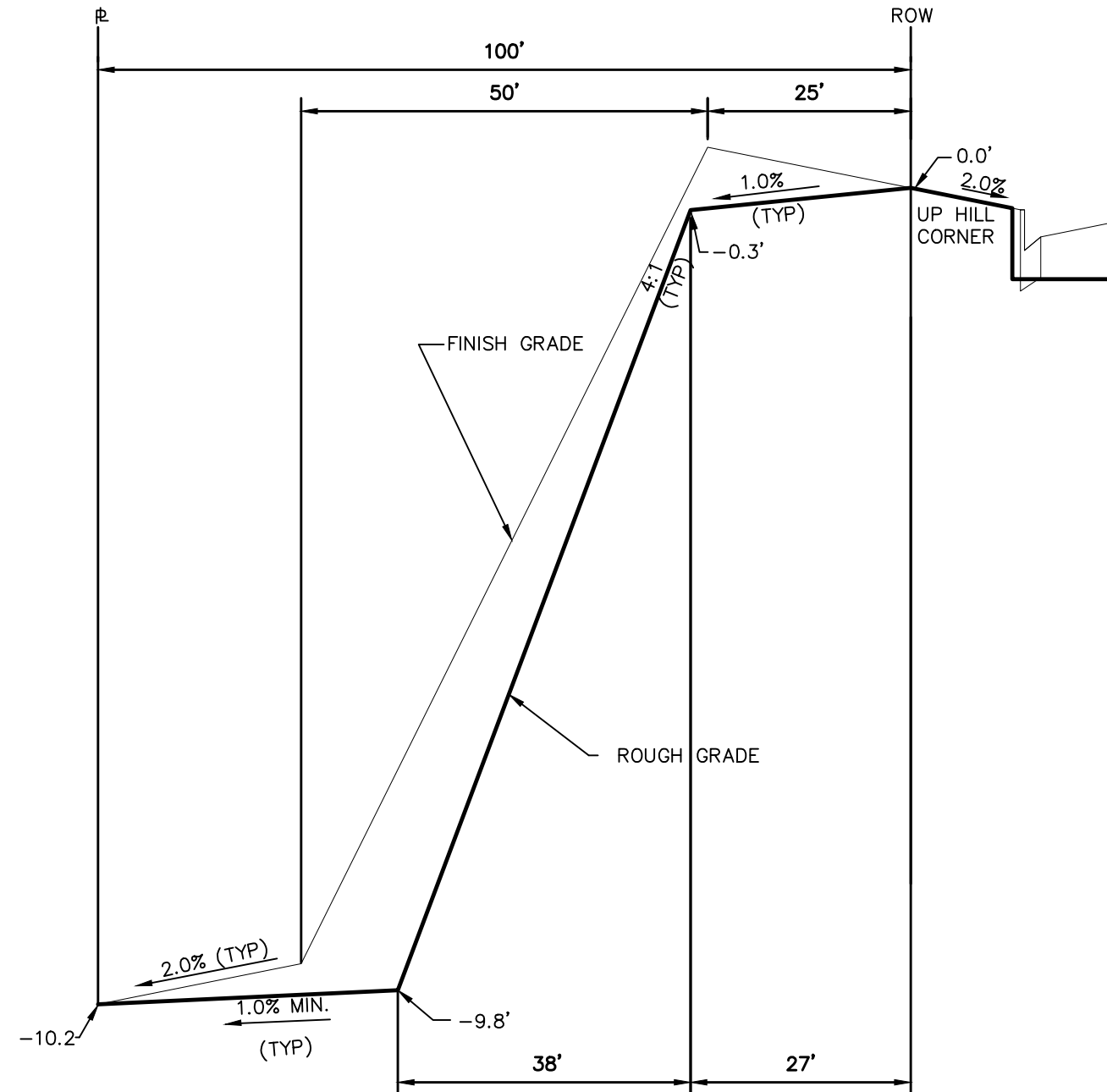
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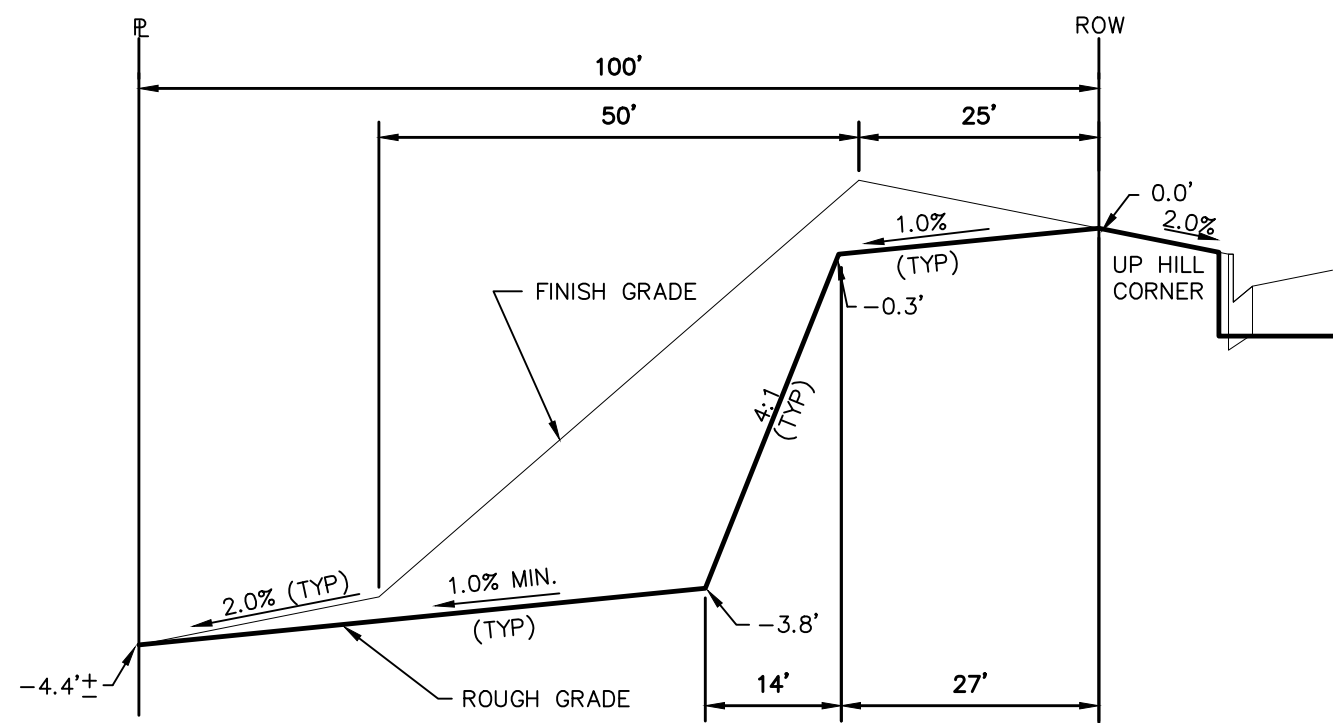
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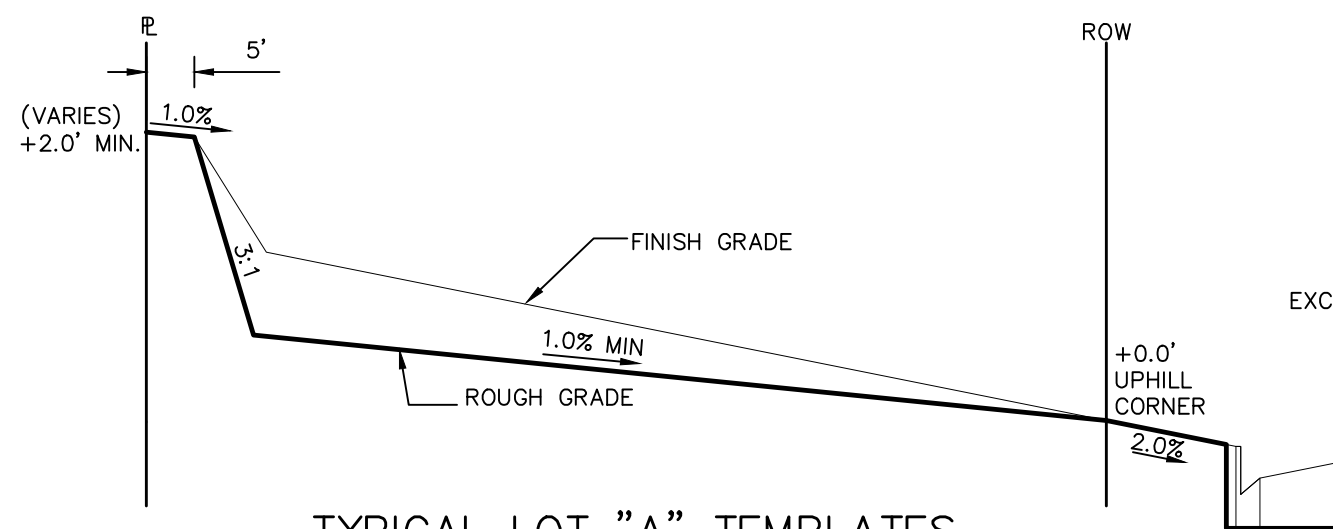
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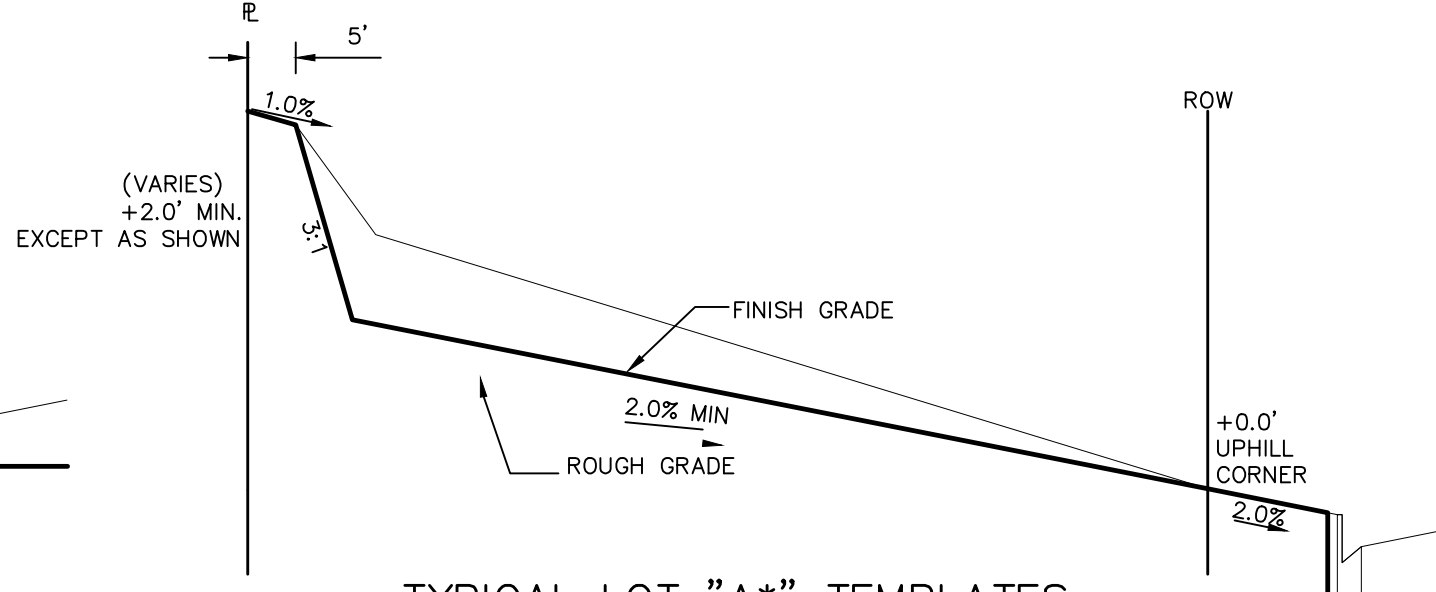
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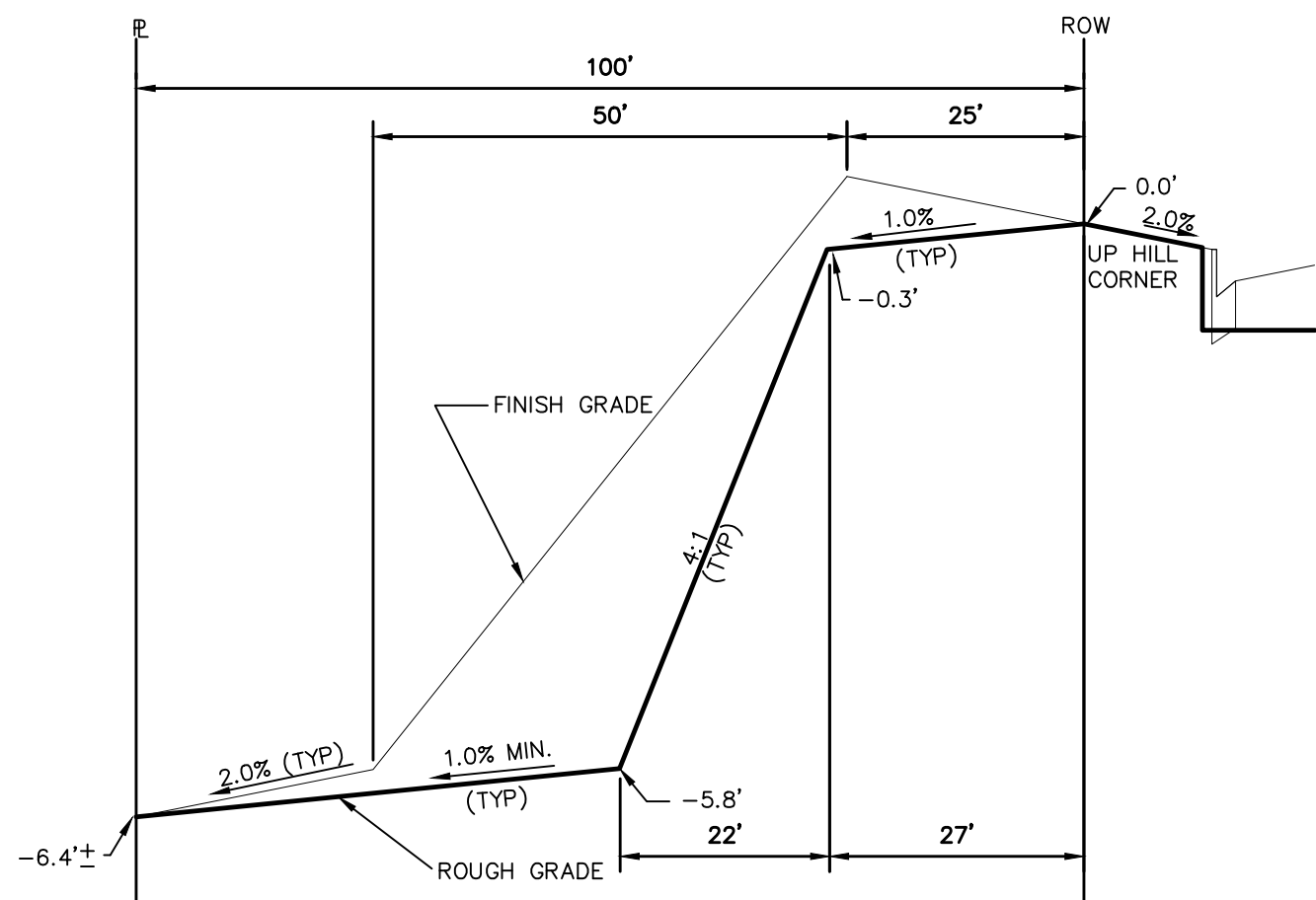
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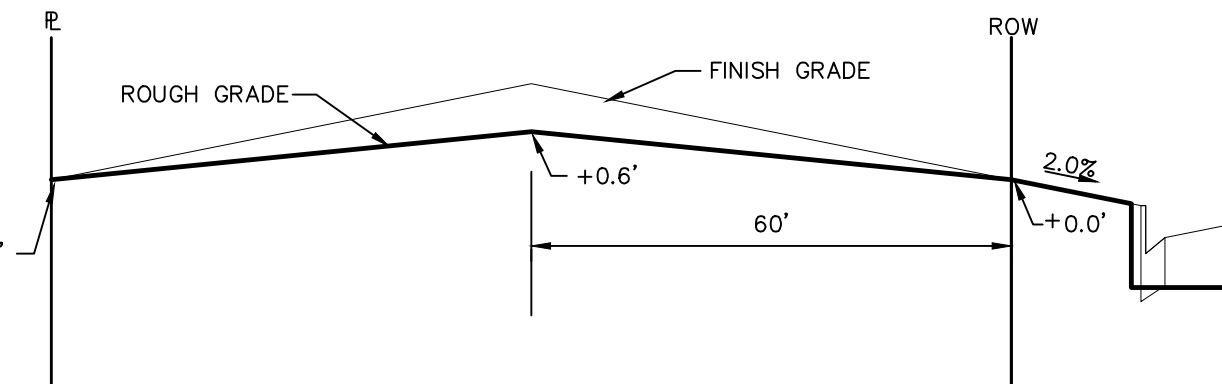
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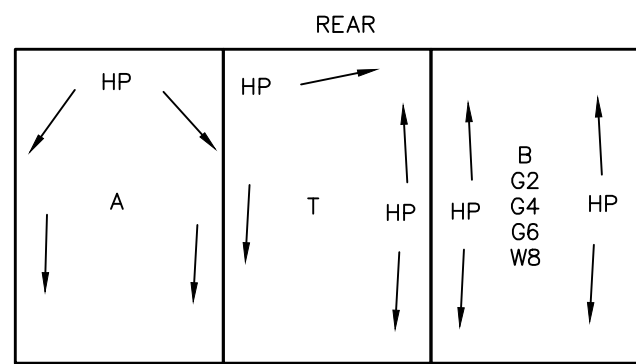
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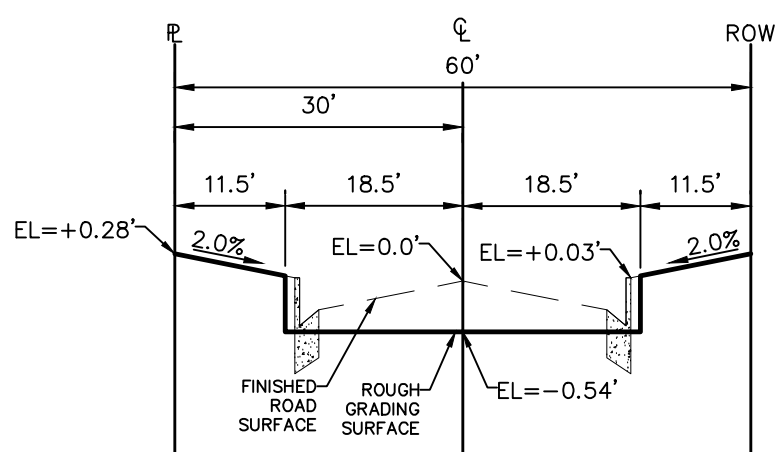
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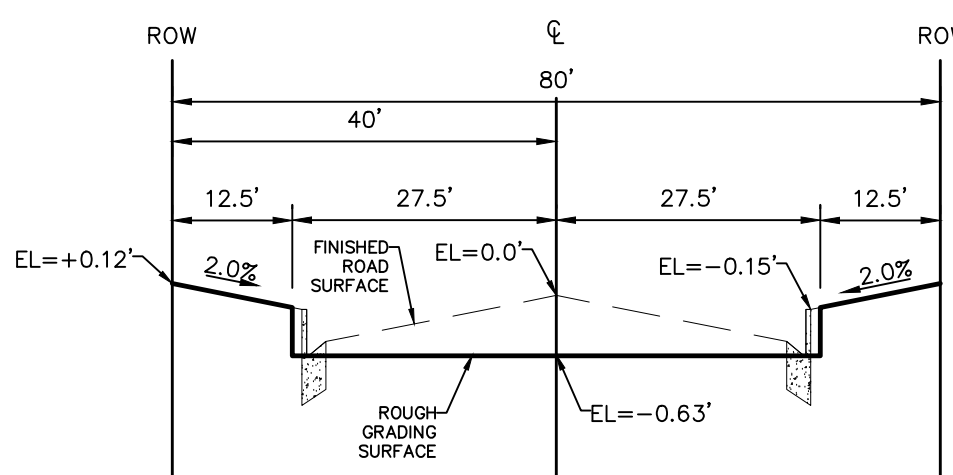
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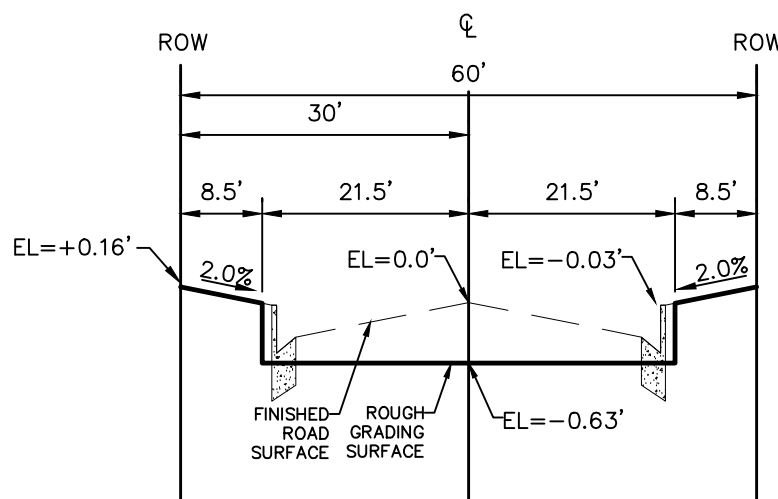
TYPICAL DRAINAGE PATTERN
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TYPICAL RESIDENTIAL STREET SECTION
60' ROW
NTS



TYPICAL LAMBERT ROAD STREET SECTION
80' ROW
NTS



TYPICAL RAINBOW BRIDGE STREET SECTION
60' ROW
NTS

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, FILTREXX OR APPROVED EQUAL WILL BE INSTALLED AROUND THE OUTLET AND OVERFLOW STRUCTURE. THE OUTLET STRUCTURE WILL ALSO BE PROTECTED WITH RIPRAP ON THE DOWNSTREAM SIDE.

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

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

MATERIAL HANDLING AND SPILL PREVENTION

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

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

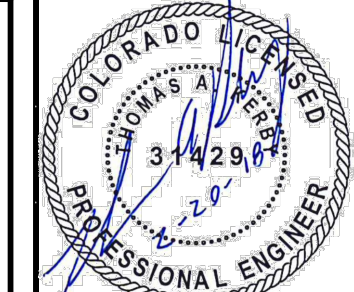
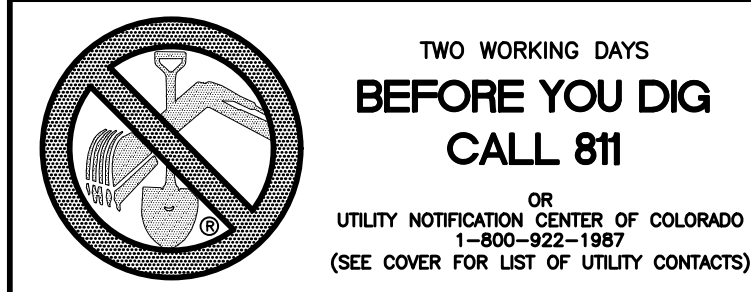
- A THOROUGH INSPECTION OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE PERFORMED EVERY 14 DAYS AS WELL AS AFTER ANY RAIN OR SNOWMELT EVENT THAT CAUSES SURFACE EROSION:
- * EROSION OF V-NOTCH SWALES, CHANNELS AND SIDE SLOPES SHALL BE REPAIRED.
- * WHEN THE CHECK DAMS HAVE SILTED UP TO HALF THEIR HEIGHT, THE SILT SHALL BE REMOVED, CHANNEL GRADE REESTABLISHED, AND SIDE SLOPES RE-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 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 DROPSSEED	NATIVE	0.5
SWITCH GRASS	NEBRASKA	3.0
WEEPING LOVE GRASS	MORPHA	1.0



Date	Appr.	Date	Revisions	No.

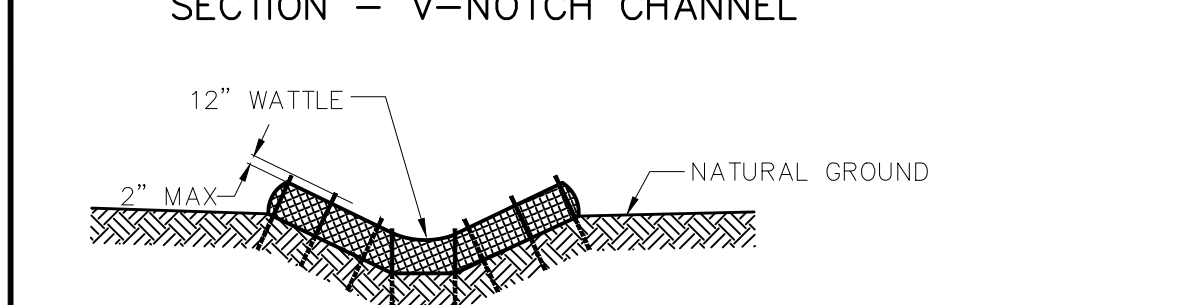
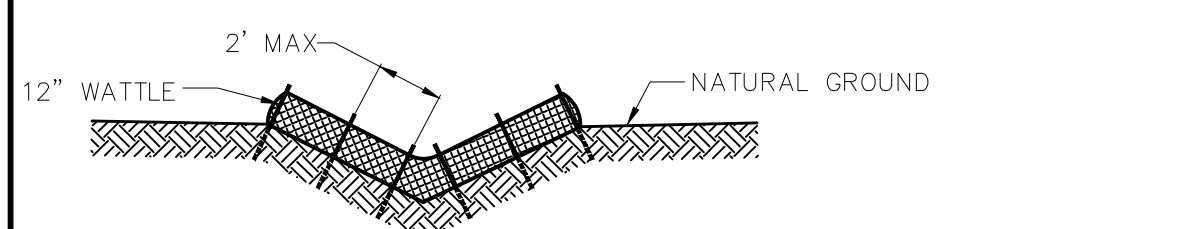
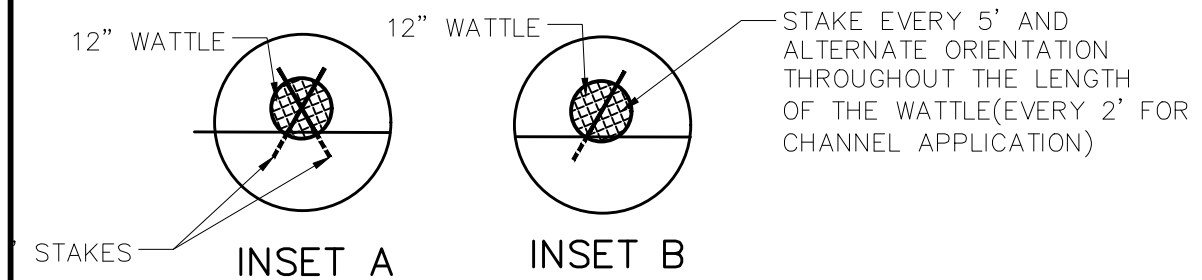
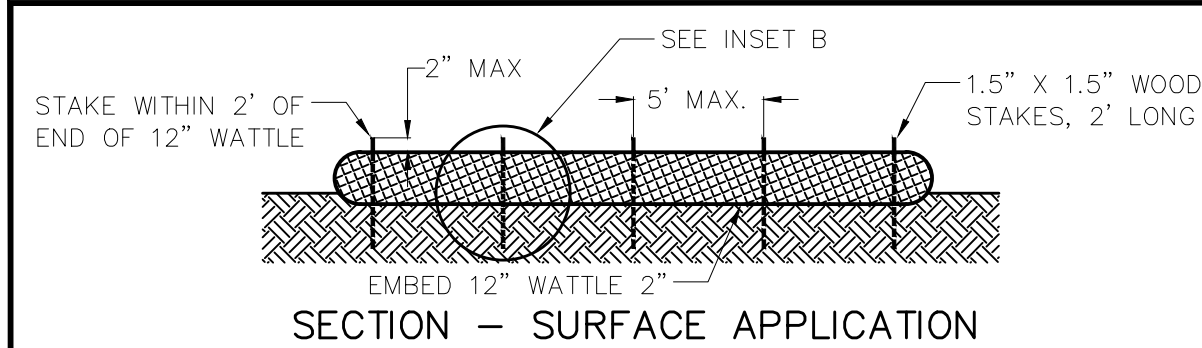
TECH CONTRACTORS
11886 STAPLETON DRIVE
FALCON, CO 80831
TELEPHONE: 719.495.7444
FAX: 719.495.2457



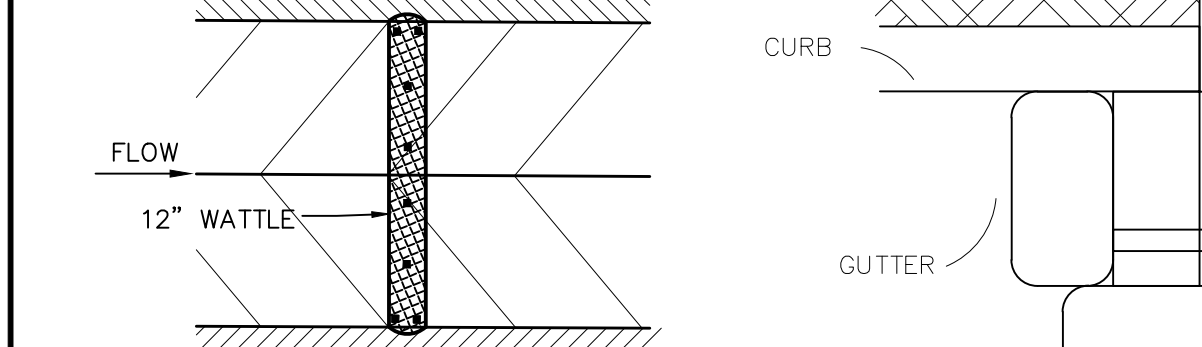
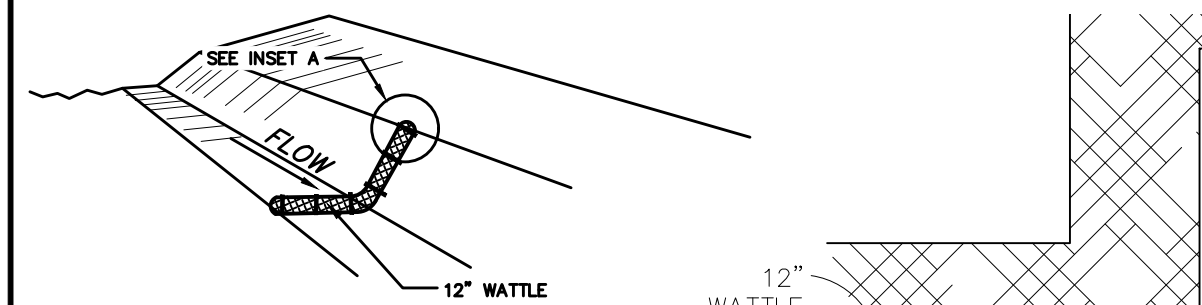
ROUGH GRADING WINDINGWALK
AT MERIDIAN RANCH
ROUGH GRADING-EROSION
CONTROL PLAN
DETAIL SHEET

Drawn by LCA
Checked by TJK
Date FEB 2018

Scale AS SHOWN
21 of 22



SECTION – TRAPAZOIDAL CHANNEL



PLAN VIEW

NOTES:

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

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

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

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

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

IED BLOCK AND GRAVEL BAG* CURB INLET PROTECTI

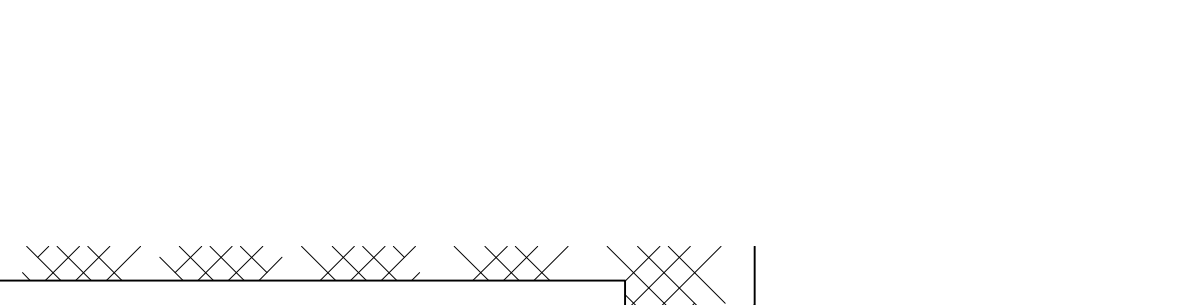
BLOCK AND GRAVEL BAG*CURB INLET PROTECTION NOTES

- INSTALLATION REQUIREMENTS**
1. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET.
 2. CONCRETE BLOCKS ARE TO BE LAID AT 2' SPACING ON THEIR SIDES WITH THE OPEN ENDS OF THE BLOCK FACING EACH OTHER.
 3. IF MORE THAN ONE 2X4 IS REQUIRED, THEY NEED TO OVERLAP BY A MINIMUM OF 2'
 4. GRAVEL BAGS ARE TO BE PLACED AROUND THE CONCRETE BLOCKS AND 2X4 TO CLOSELY ABUTTING ONE ANOTHER SO THERE ARE NO GAPS.
 5. GRAVEL BAGS ARE TO CONTAIN WASHED SAND OR GRAVEL APPROXIMATELY 3/4 INCH IN DIAMETER.
 6. BAGS ARE TO BE MADE OF 1/4" INCH WIRE MESH (USED WITH GRAVEL ONLY) OR GEOTEXTILE.

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

STRAW BALE BARRIER NOTES

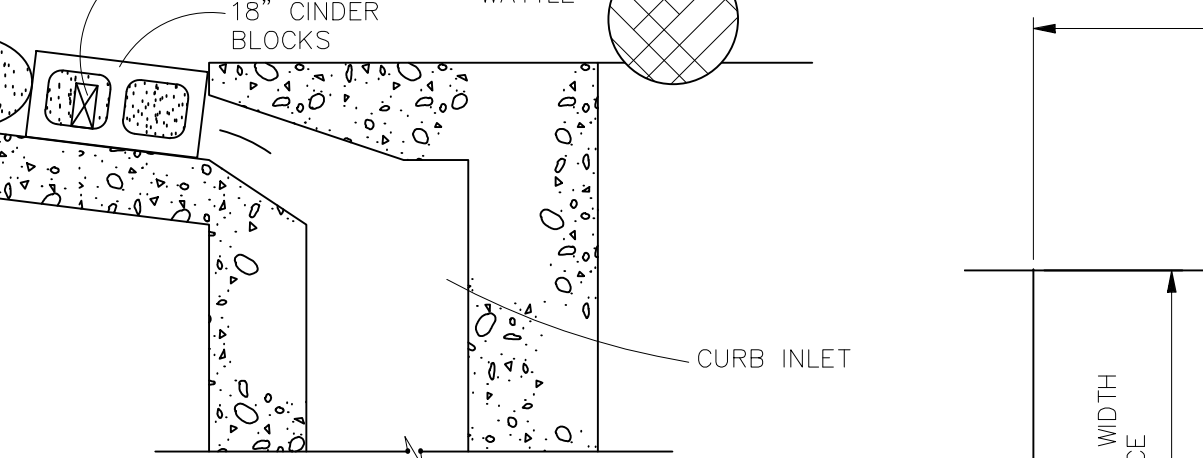
- INSTALLATION REQUIREMENTS**
1. STRAW BALE BARRIERS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
 2. BALES SHALL CONSIST OF APPROXIMATELY 5 CUBIC FEET OF CERTIFIED WEED FREE HAY OR STRAW AND WEIGH NOT LESS THAN 35 POUNDS.
 3. BALES ARE TO BE PLACED IN A SINGLE ROW WITH THE END OF THE BALES TIGHTLY ABUTTING ONE ANOTHER.
 4. EACH BALE IS TO BE SECURELY ANCHORED WITH AT LEAST TWO STAKES AND THE FIRST STAKE IS TO BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.
 5. STAKES ARE TO BE A MINIMUM OF 42 INCHES LONG. METAL STAKES SHALL BE STANDARD "T" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD STAKES SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.
 6. BALES ARE TO BE BOUND WITH EITHER WIRE OR STRING AND ORIENTED SUCH THAT THE BINDINGS ARE AROUND THE SIDES AND NOT ALONG THE TOPS AND BOTTOMS OF THE BALE.
 7. GAPS BETWEEN BALES ARE TO BE CHINKED (FILLED BY WEDGING) WITH STRAW OR THE SAME MATERIAL OF THE BALE.
 8. END BALES ARE TO EXTEND UPSLOPE SO THE TRAPPED RUNOFF CANNOT FLOW AROUND THE ENDS OF THE BARRIER.



STRAW BALE BARRIER

VEHICLE TRACKING NOTES

- INSTALLATION REQUIREMENTS**
1. ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION BEGINNING.
 2. CONSTRUCTION ENTRANCES ARE TO BE BUILT WITH AN APRON TO ALLOW FOR TURNING TRAFFIC, BUT SHOULD NOT BE BUILT OVER EXISTING PAVEMENT EXCEPT FOR A SLIGHT OVERLAP.
 3. AREAS TO BE STABILIZED ARE TO BE PROPERLY GRADED AND COMPACTED PRIOR TO LAYING DOWN GEOTEXTILE AND STONE.
 4. CONSTRUCTION ROADS, PARKING AREAS, LOADING/UNLOADING ZONES, STORAGE AREAS, AND STAGING AREAS ARE TO BE STABILIZED.
 5. CONSTRUCTION ROADS ARE TO BE BUILT TO CONFORM TO SITE GRADES, BUT SHOULD NOT HAVE SIDE SLOPES OR ROAD GRADES THAT ARE EXCESSIVELY STEEP.



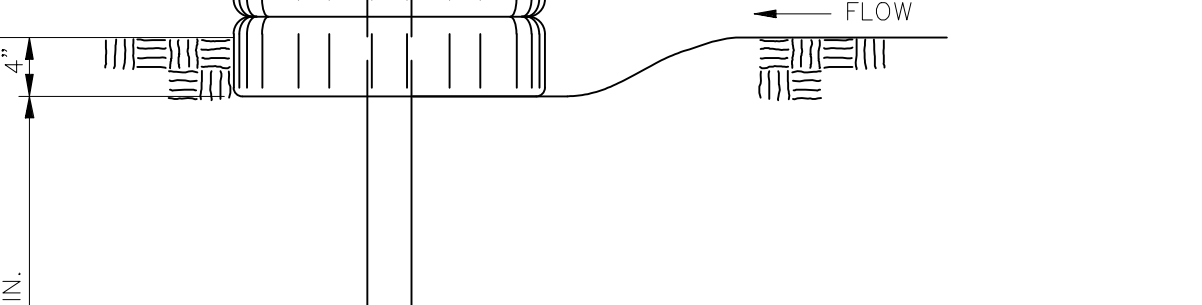
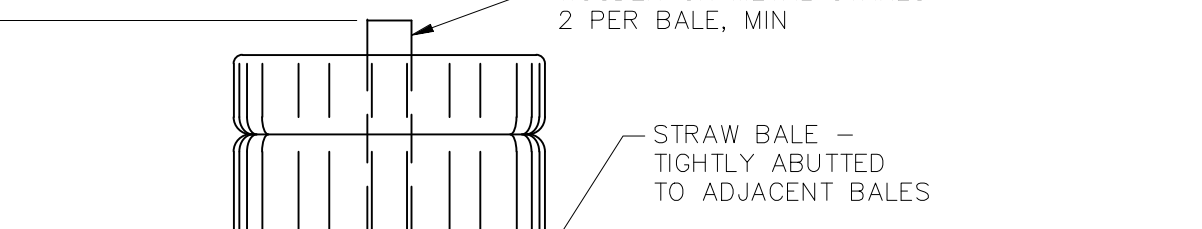
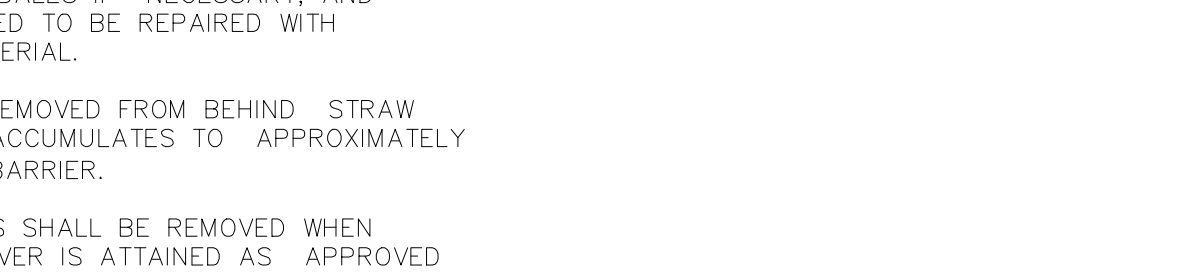
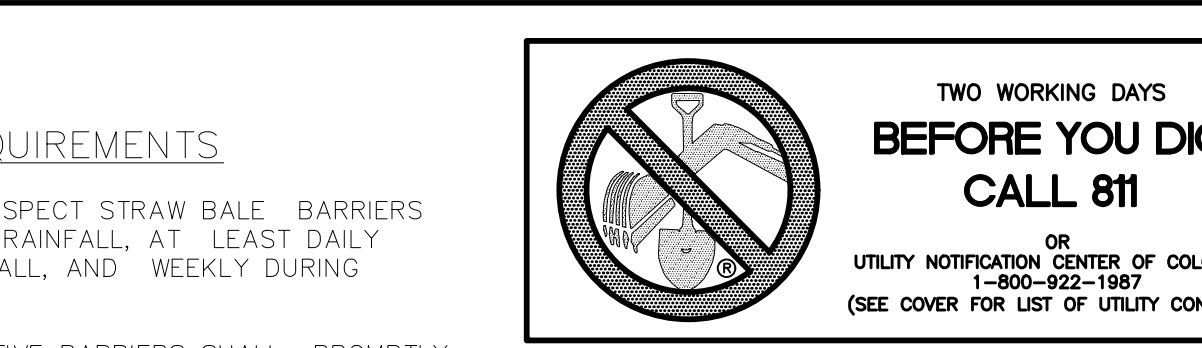
SECTION

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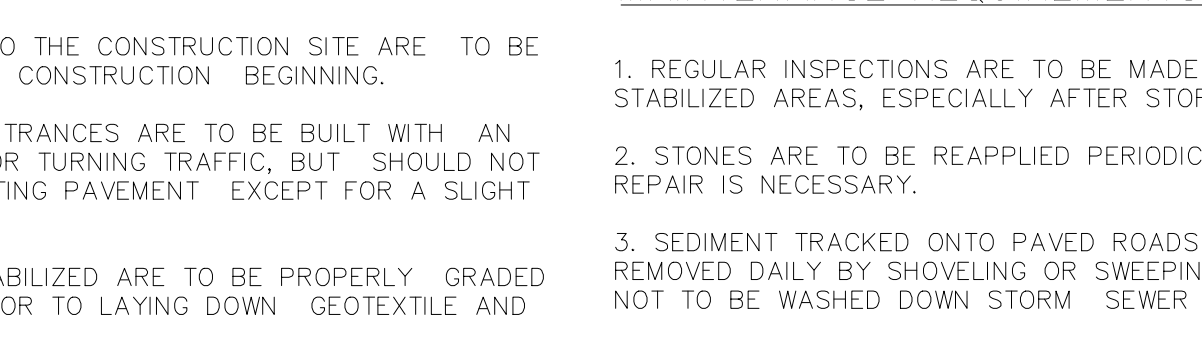
BLOCK AND GRAVEL BAG*CURB INLET PROTECTION NOTES

- MAINTENANCE REQUIREMENTS**
1. CONTRACTOR SHALL INSPECT INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.
 2. DAMAGED OR INEFFECTIVE INLET PROTECTION SHALL PROMPTLY BE REPAIRED OR REPLACED.
 3. SEDIMENT SHALL BE REMOVED WHEN SEDIMENT HAS ACCUMULATED TO APPROXIMATELY 1/2 THE DESIGN DEPTH OF THE TRAP.
 4. INLET PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED WITHIN THE DRAINAGE AREA AS APPROVED BY THE CITY.

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



SECTION – TRAPAZOIDAL CHANNEL



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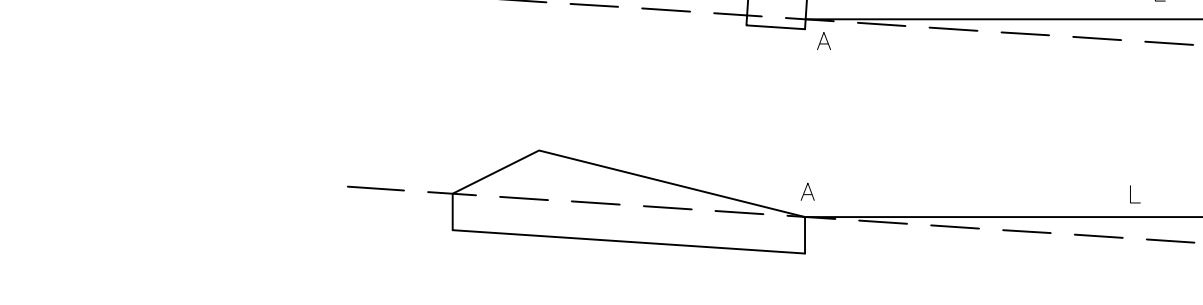
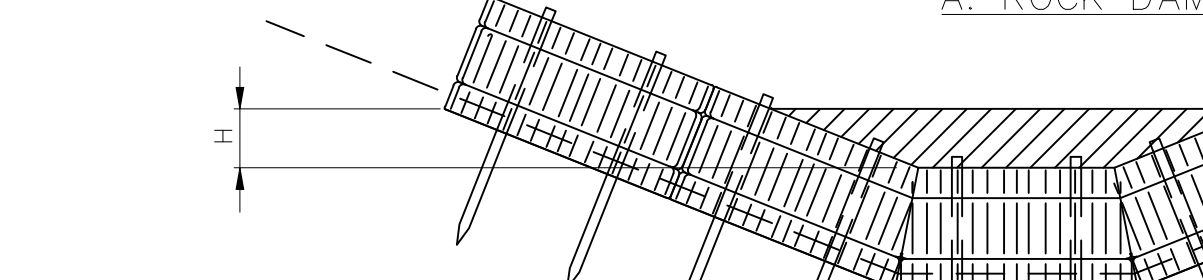
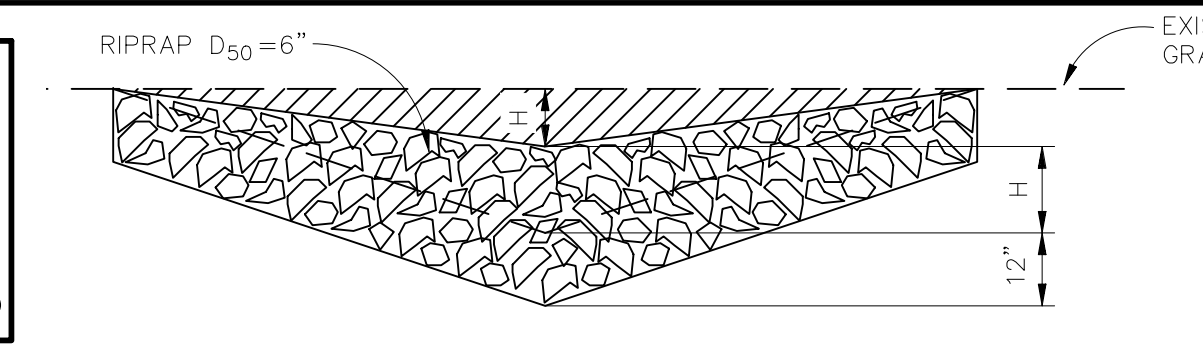
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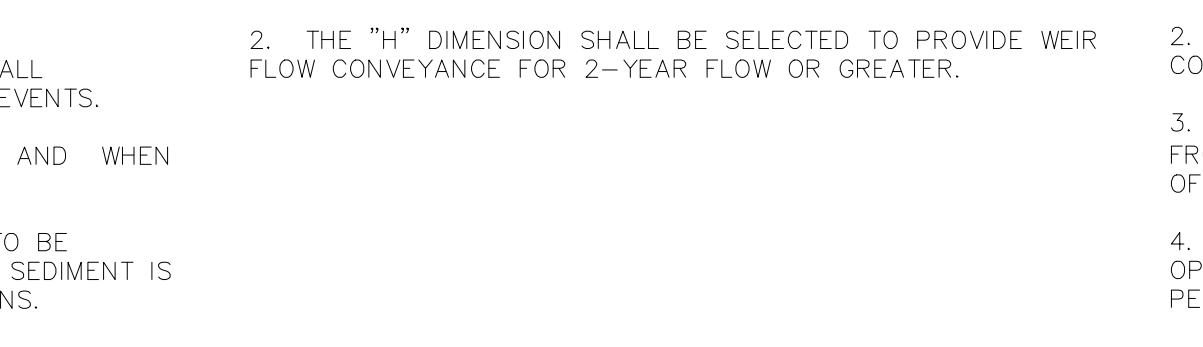
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SECTION – TRAPAZOIDAL CHANNEL



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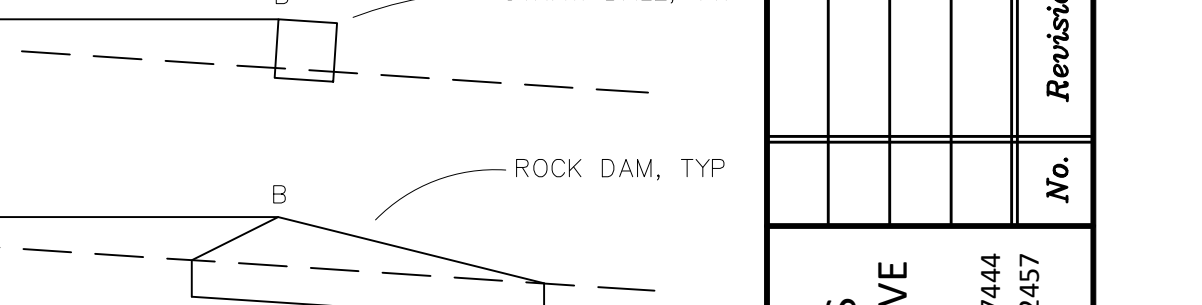
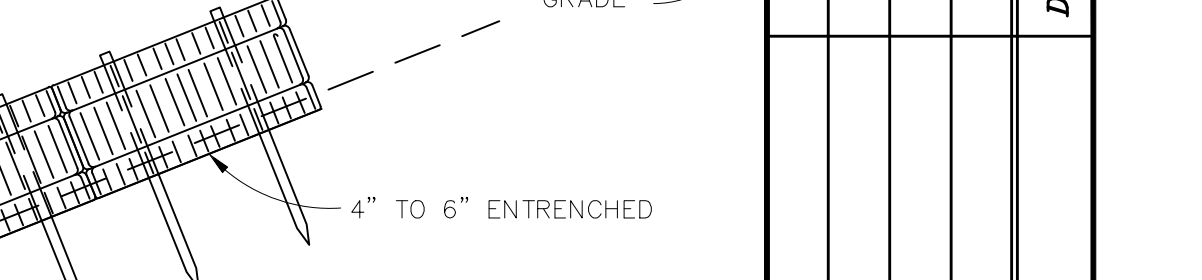
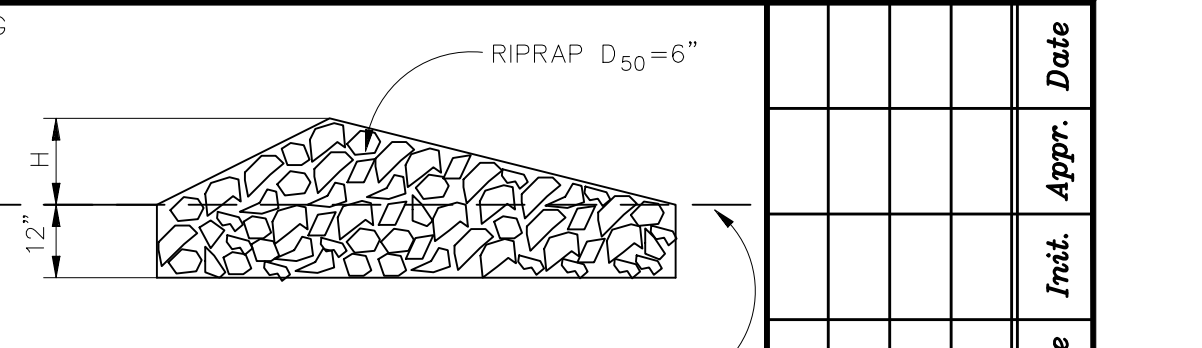
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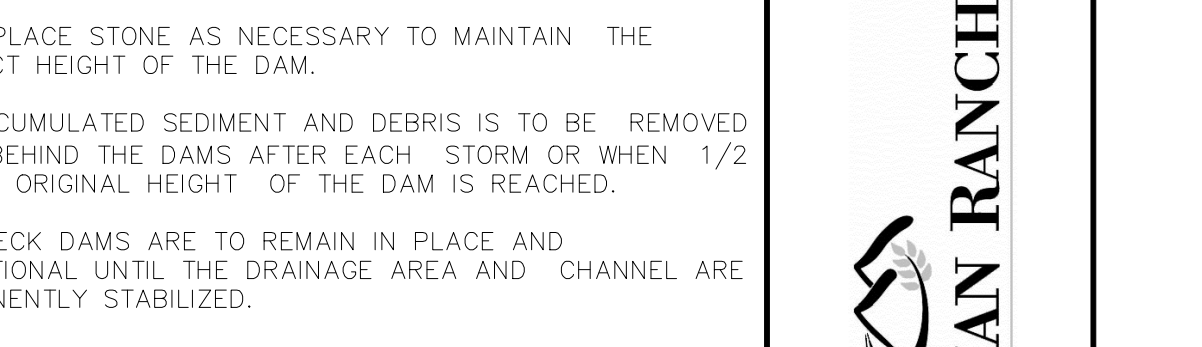
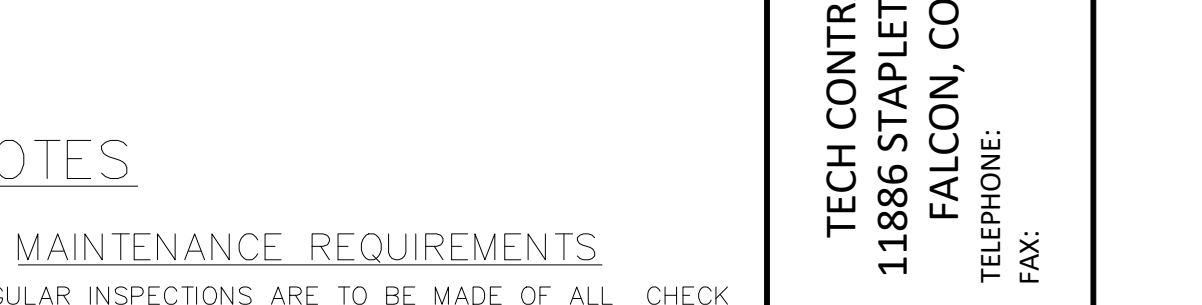
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 4. GRAVEL BAGS ARE TO BE PLACED AROUND THE CONCRETE BLOCKS AND 2X4 TO CLOSELY ABUTTING ONE ANOTHER SO THERE ARE NO GAPS.
 5. GRAVEL BAGS ARE TO CONTAIN WASHED SAND OR GRAVEL APPROXIMATELY 3/4 INCH IN DIAMETER.
 6. BAGS ARE TO BE MADE OF 1/4" INCH WIRE MESH (USED WITH GRAVEL ONLY) OR GEOTEXTILE.

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



SECTION – TRAPAZOIDAL CHANNEL



PLAN VIEW

NOTES:

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

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

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

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

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

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

IED BLOCK AND GRAVEL BAG* CURB INLET PROTECTI

BLOCK AND GRAVEL BAG*CURB INLET PROTECTION NOTES

- INSTALLATION REQUIREMENTS**
1. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET.
 2. CONCRETE BLOCKS ARE TO BE LAID AT 2' SPACING ON THEIR SIDES WITH THE OPEN ENDS OF THE BLOCK FACING EACH OTHER.
 3. IF MORE THAN ONE 2X4 IS REQUIRED, THEY NEED TO OVERLAP BY A MINIMUM OF 2'
 4. GRAVEL BAGS ARE TO BE PLACED AROUND THE CONCRETE BLOCKS AND 2X4 TO CLOSELY ABUTTING ONE ANOTHER SO THERE ARE NO GAPS.
 5. GRAVEL BAGS ARE TO CONTAIN WASHED SAND OR GRAVEL APPROXIMATELY 3/4 INCH IN DIAMETER.
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