

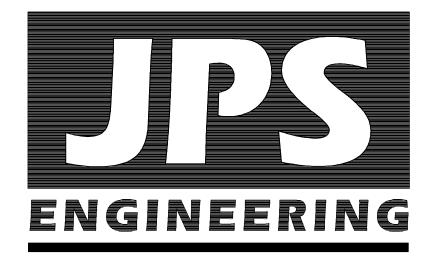
ABERT RANCH SUBDIVISION **Construction Drawings** El Paso County, Colorado

PREPARED FOR:

BF Ranch Trust 2015

4510 Ford Drive Colorado Springs, CO 80908

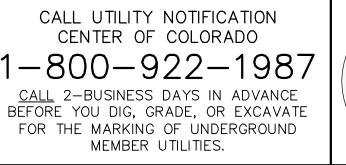
PREPARED BY:



19 East Willamette Avenue Colorado Springs, Colorado 80903 February, 2019

BF RANCH TRUST 2015 GAS DEPARTMENT: BLACK HILLS ENERGY MR. ERIC LEFFLER, TRUSTEE MR. SEBASTIAN SCHWENDER 4510 FORD DRIVE (719) 359-3716 COLORADO SPRINGS, CO 80908 (719) 640-7511 ELECTRIC DEPARTMENT: MOUNTAIN VIEW ELECTRIC ASSOCIATION 11140 E. WOODMEN ROAD JEROME W. HANNIGAN & COLORADO SPRINGS, CO 80908 ASSOCIATES, INC. MR. DAVE WALDNER 19360 SPRING VALLEY ROAD (719) 495-2283 MONUMENT, CO 80132 (719) 481-8292 TELEPHONE COMPANY: QWEST COMMUNICATIONS (LOCATORS) (800) 922-1987 JPS ENGINEERING, INC. A.T. & T. 19 E. WILLAMETTE AVENUE (LOCATORS) (719) 635-3674 COLORADO SPRINGS, CO 80903 MR. JOHN P. SCHWAB. P.E. FIRE DEPARTMENT: TRI-LAKES MONUMENT FIRE (719) 477-9429 PROTECTION DISTRICT (719) 484-0911 EL PASO COUNTY PCD 2880 INTERNATIONAL CIRCLE COLORADO SPRINGS, CO 80910 MR. GILBERT LAFORCE, P.E.

> Daniel Torres, P.E. (719) 520-6305





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ENGINEER:

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 PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND RESPONSIBILITY FOR LIABILITY CAUSED BY NEGLIGENT ACTS. ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS

JOHN P. SCHWAB, P.E. #2989'

DATE

DATE

OWNER/DEVELOPER'S STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

BF RANCH TRUST 2015 MR. ERIC LEFFLER, TRUSTEE 4510 FORD DRIVE COLORADO SPRINGS, COLORADO 80908

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.

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.

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

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

SHEET G1

PCD File No. SF-19-XXX

SF1911

COUNTY GENERAL NOTES:

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL. VOLUMES 1. AND 2. AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).

3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:

A. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)

B. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2

C. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION D. CDOT M & S STANDARDS

4. NOT WITH STANDING 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 DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.

5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS. OMISSIONS. OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.

6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.

8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.

9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP WITH CLASS B BEDDING UNLESS OTHERWISE NOTED AND APPROVED BY PCD.

10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.

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

12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.

13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA.

14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.

15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED. FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE. GRADING. OR CONSTRUCTION

Please revise to DPW

PROJECT GENERAL NOTES:

1. EXISTING CONTOUR DATA PROVIDED BY OWNER CONSISTS OF AERIAL TOPOGRAPHIC SURVEY DATA PROVIDED BY LWA LAND SURVEYING. JPS ENGINEERING TAKES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING TOPOGRAPHIC MAPPING.

2. STATIONING IS AT CENTERLINE UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE AT EDGE OF ASPHALT (EOA) UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE FROM EDGE OF ASPHALT TO EDGE OF ASPHALT UNLESS OTHERWISE NOTED.

3. PROPOSED CONTOURS SHOWN ARE TO FINISHED GRADE.

4. LENGTHS SHOWN FOR STORM SEWER PIPES ARE TO CENTER OF MANHOLE.

5. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, DEBRIS, WASTE AND OTHER UNSUITABLE FILL MATERIAL FOUND WITHIN THE LIMITS OF EXCAVATION.

6. MATCH INTO EXISTING GRADES AT 3:1 MAX CUT AND FILL SLOPES.

7. REVEGETATION OF ALL DISTURBED AREAS SHALL BE DONE WITH SPECIFIED SEED MIX WITHIN 60 DAYS AFTER FINE GRADING IS COMPLETE.

8. EROSION CONTROL SHALL CONSIST OF SILT FENCE AND HAY BALES AS SHOWN ON THE DRAWING, AND TOPSOIL WITH GRASS SEED, WHICH WILL BE WATERED UNTIL VEGETATION HAS BEEN REESTABLISHED.

9. THE EROSION CONTROL MEASURES OUTLINED ON THIS PLAN ARE THE RESPONSIBILITY OF THE DEVELOPER TO MONITOR AND REPLACE, REGRADE, AND REBUILD AS NECESSARY UNTIL VEGETATION IS REESTABLISHED.

10. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN A MANNER THAT WILL PROTECT ADJACENT PROPERTIES AND PUBLIC FACILITIES FROM THE ADVERSE EFFECTS OF EROSION AND SEDIMENTATION AS A RESULT OF CONSTRUCTION AND EARTHWORK ACTIVITIES WITHIN THE PROJECT SITE.

11. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS DETERMINED BY SITE CONDITIONS.

12. THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR.

13. ALL BACKFILL, SUB-BASE, AND/OR BASE COURSE MATERIAL SHALL BE COMPACTED PER EL PASO COUNTY AND CDOT STANDARDS AND SPECIFICATIONS.

14. ALL FINISHED GRADES SHALL HAVE A MINIMUM 1.0% SLOPE TO PROVIDE POSITIVE DRAINAGE.

15. WHERE PROPOSED SLOPES CONFLICT WITH PROPOSED SPOT ELEVATIONS, SPOT ELEVATIONS SHALL GOVERN.

16. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO BEGINNING WORK.

17. ELECTRONIC FILE OF SITE DRAWING IS AVAILABLE FROM ENGINEER FOR CONSTRUCTION STAKING PURPOSES.

ROAD DESIG

<u>P0S1</u> ROAD MIN. MIN. <u>MAX.</u> MIN. <u>MIN.</u>

Revise Development Services to Planning and Community Development.

COUNTY SIGNING AND STRIPING NOTES:

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.

3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY DEVELOPMENT SERVICES

4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.

5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.

6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR

7. ALL STREET NAME SIGNS SHALL HAVE 'D' SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS".

8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.

9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.

10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.

11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.

12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.

13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT SERVICES (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.

14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF TRANSPORTATION PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

> **Revise Department of** Transportation to Department of Public Norks (DPW)

DESIGN DATA

D CLASSIFICATION:	RURAL	LOCAL	RESIDENTIAL
IGN SPEED:			<u>30 MPH</u>
TED SPEED:			<u>30 MPH</u>
DWAY WIDTH (GRAVE	L):	2	<u>28' EOA-EOA</u>
HORIZONTAL RADIUS	S:		<u>300'</u>
GRADE:			1.0%
GRADE:			8.0%
K-VALUE (CREST):			19
K-VALUE (SAG):			37

GENERAL DRAINAGE NOTES:

1. FINAL LOT AND HOME SITE GRADING IS THE RESPONSIBILITY OF THE INDIVIDUAL LOT OWNERS AND BUILDERS.

2. INDIVIDUAL BUILDERS SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND ACCOUNT FOR POTENTIAL CROSS-LOT DRAINAGE IMPACTS WITHIN EACH LOT.

3. BUILDERS AND PROPERTY OWNERS SHALL IMPLEMENT & MAINTAIN EROSION CONTROL BEST MANAGEMENT PRACTICES FOR PROTECTION OF DOWNSTREAM PROPERTIES AND FACILITIES INCLUDING PROTECTION OF EXISTING GRASS BUFFER STRIPS ALONG THE DOWNSTREAM PROPERTY BOUNDARIES.

LEGEND:

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	SECTION LINE - NEW/EXISTING
	EASEMENT LINE - NEW/EXISTING
	CONTOUR - NEW/EXISTING
	PROPERTY LINE - NEW/EXISTING
:	OVERHEAD ELECTRIC LINE W/ POWER POLE NEW/EXISTING
	UNDERGROUND ELECTRIC LINE NEW/EXISTING
_	- SECTION NUMBER

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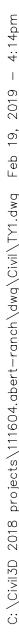
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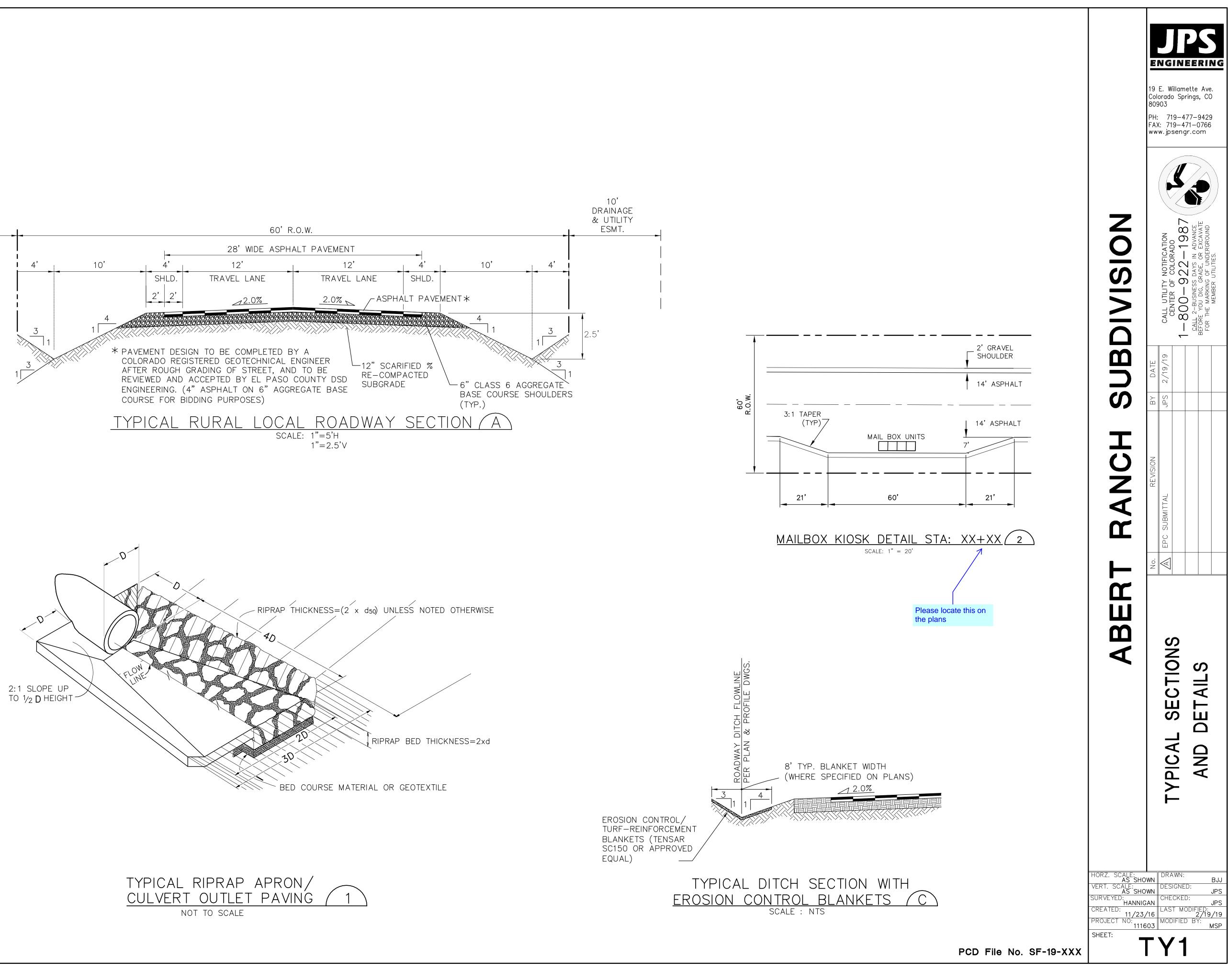
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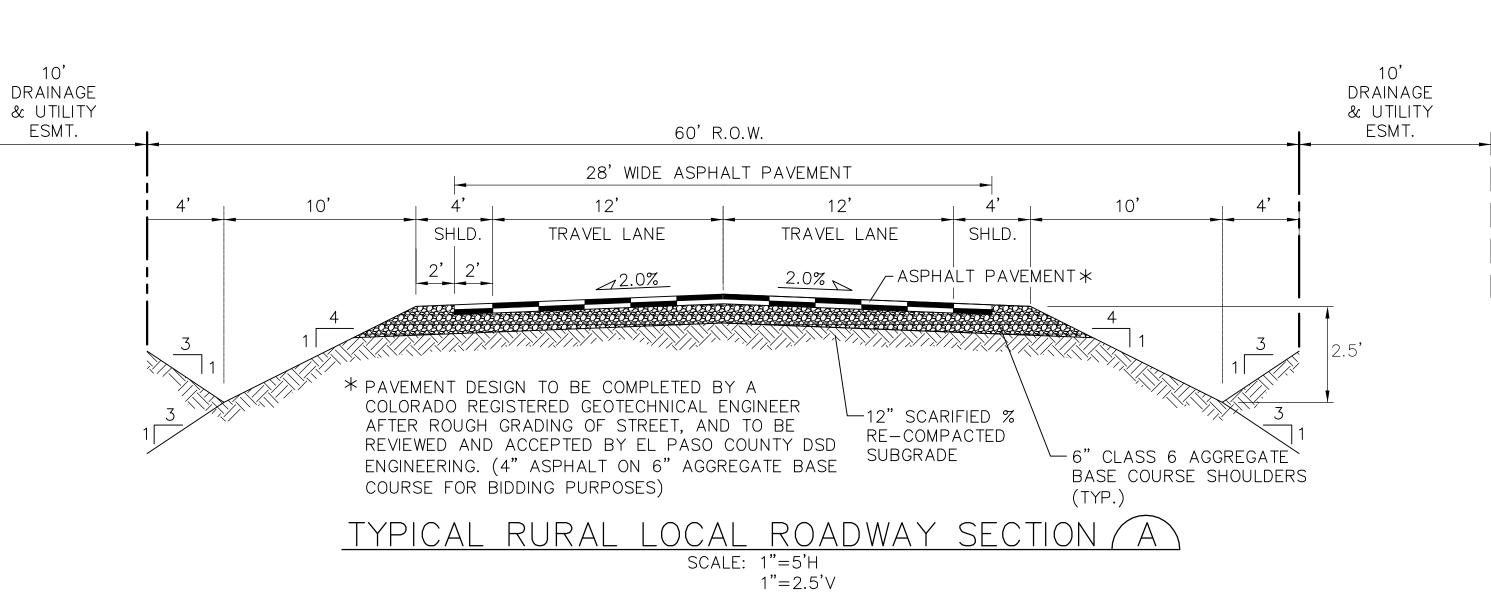
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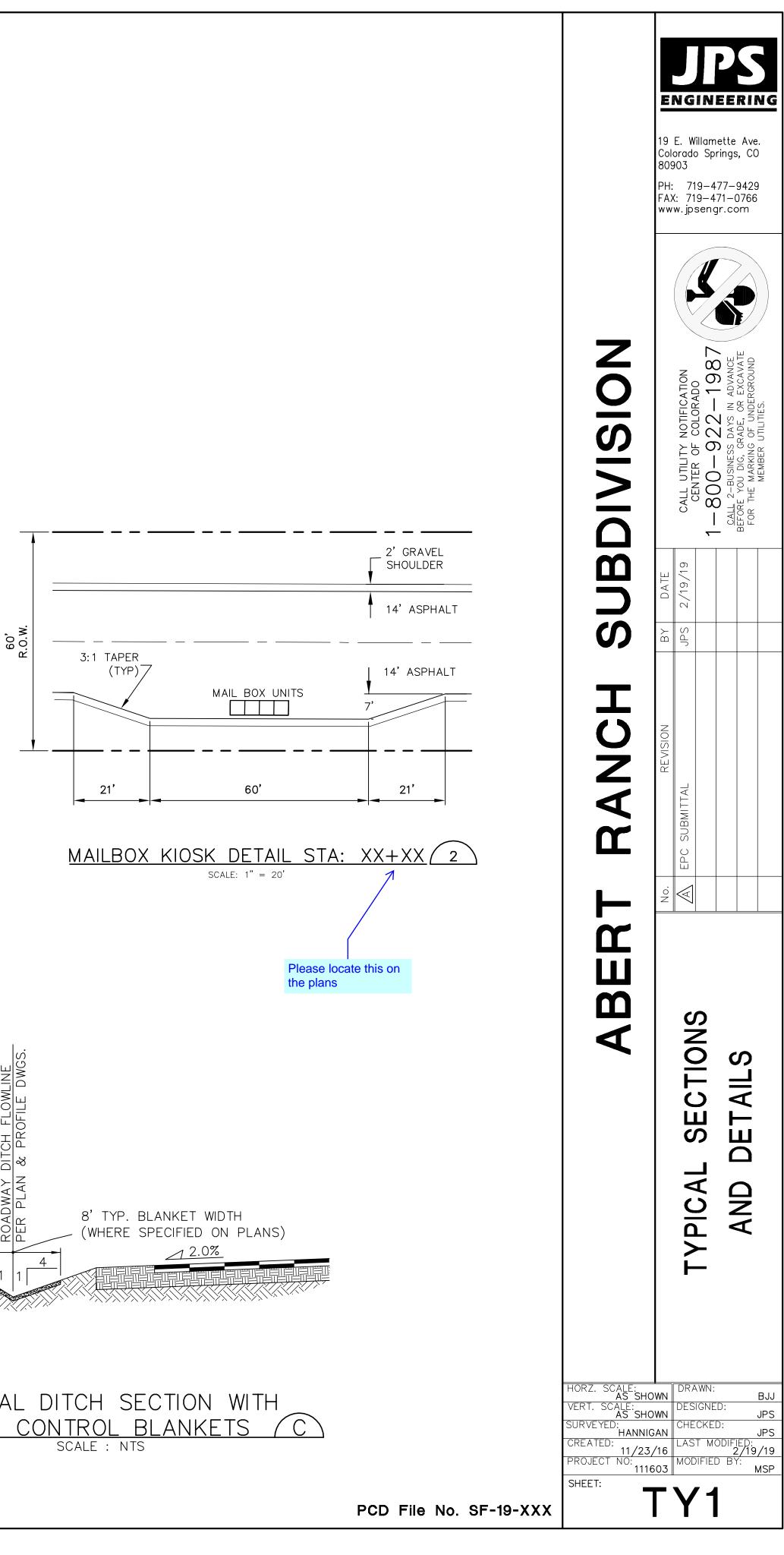
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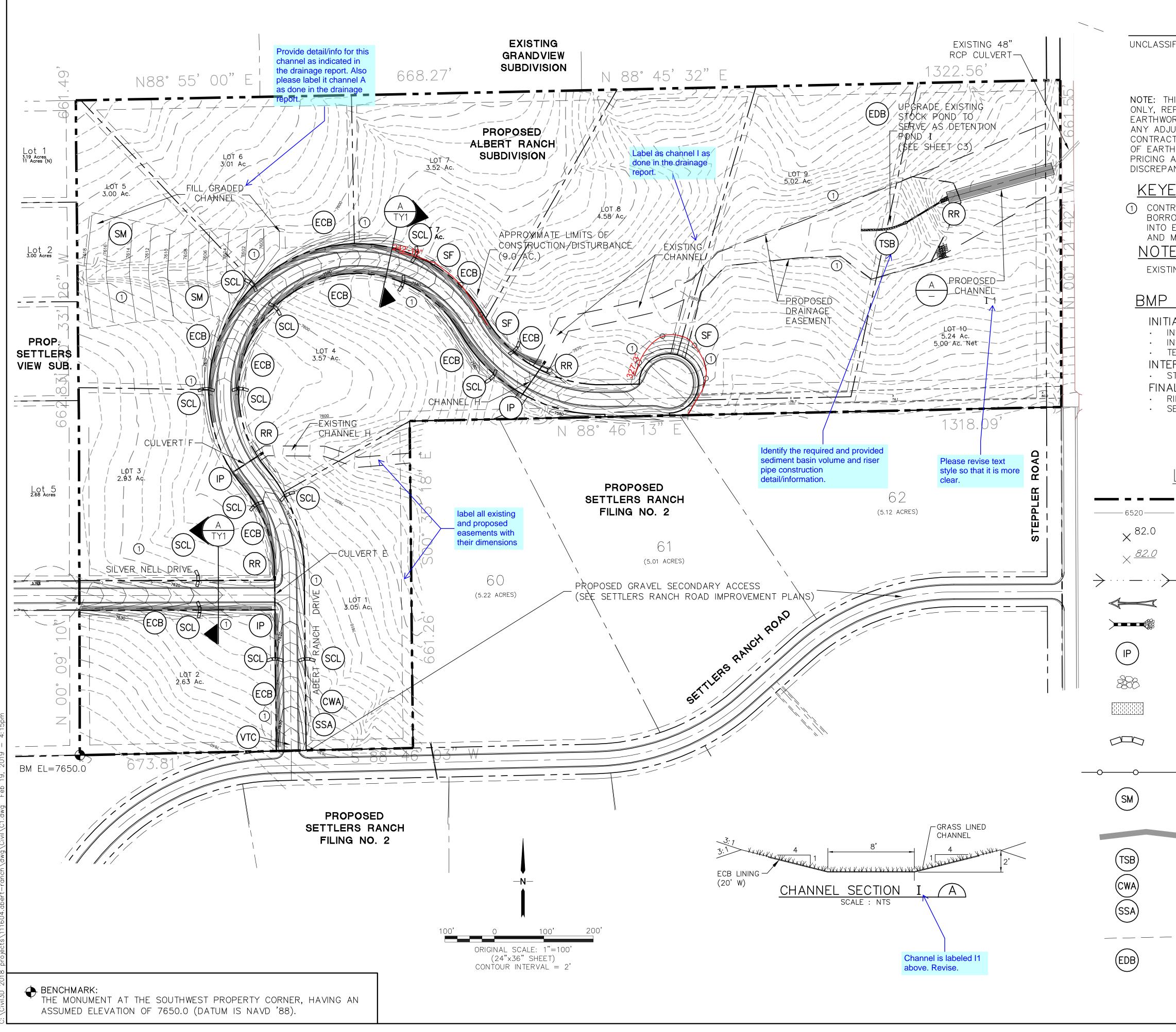


NOT TO SCALE









ESTIMATED EARTHWORK QUANTITY: FIED EXCAVATION (TOTAL CUT) = 11,718 CY *EMBANKMENT FILL = 15,902 CY NET (FILL) = 4,184 CY *(ASSUMES 15% COMPACTION FACTOR) INS ESTIMATE IS PROVIDED FOR INFORMATION PRESENTING THE CALCULATED BULK RK VOLUME TO FINISHED GRADE, EXCLUDING JSTMENT FOR PAVEMENT DEPTHS, ETC. TOR SHALL MAKE HIS OWN DETERMINATION HWORK QUANTITES AS BASIS FOR BID AND NOTIFY ENGINEER OF ANY NOTES. ED NOTES: RACTOR MAY WASTE EXCESS CUT MATERIAL OR OW SUITABLE FILL MATERIAL FROM THIS AREA. MATCH EXISTING GRADES WITH 3:1 MAX CUT AND FILL SLOPES MAINTAIN POSITIVE DRAINAGE IN ALL AREAS. ES: NG VEGETATION CONSISTS OF NATIVE GRASSES. MA BMP'S ISTALL VTC ISTALL SILT FENCE EMPORARY SEDIMENT BASIN RIM BMP'S TRAW BALE CHECK DAMS L BMP'S IPRAP APRONS EDING	SUBDIVISION	DATE DATE DATE DATE DATE DATE DATE DATE
LEGEND BOUNDARY LINES EXISTING CONTOUR PROPOSED SPOT ELEVATION (FLOWLINE) EXISTING SPOT ELEVATION (FLOWLINE) DRAINAGE CHANNEL PROPOSED FLOW DIRECTION ARROW PROPOSED CULVERT W/ FLARED END SECTIONS INLET PROTECTION RIPRAP (R) VEHICLE TRACKING CONTROL PAD (VTC) STRAW BALE BARRIER (STB) OR (SCL) WENCLE TRACKING CONTROL PAD (VTC) STRAW BALE BARRIER (STB) OR (SCL) SILT FENCE (SF) SEED AND MULCH EROSION CONTROL BLANKET DITCH LINING (CONSTRUCTION) CONSERTE MASHOULD AREA	ABERT RANCH	No. No. SITE GRADING & EROSION CONTROL PLAN EROSION CONTROL PLAN
CONCRETE WASHOUT AREA STABILIZED STAGING AREA LIMITS OF CONSTRUCTION EXTENDED DETENTION BASIN	HORZ. SCALE: 1"=10 VERT. SCALE: SURVEYED: HANNIG CREATED: 11/23/ PROJECT NO: 1106 SHEET:	DESIGNED: JPS AN CHECKED: JPS LAST MODIFIED: 2/19/19 MODIFIED BY:
PCD FILE NO. SF-19-XXX		

Standard Notes for El Paso County Grading and Erosion Control Plans

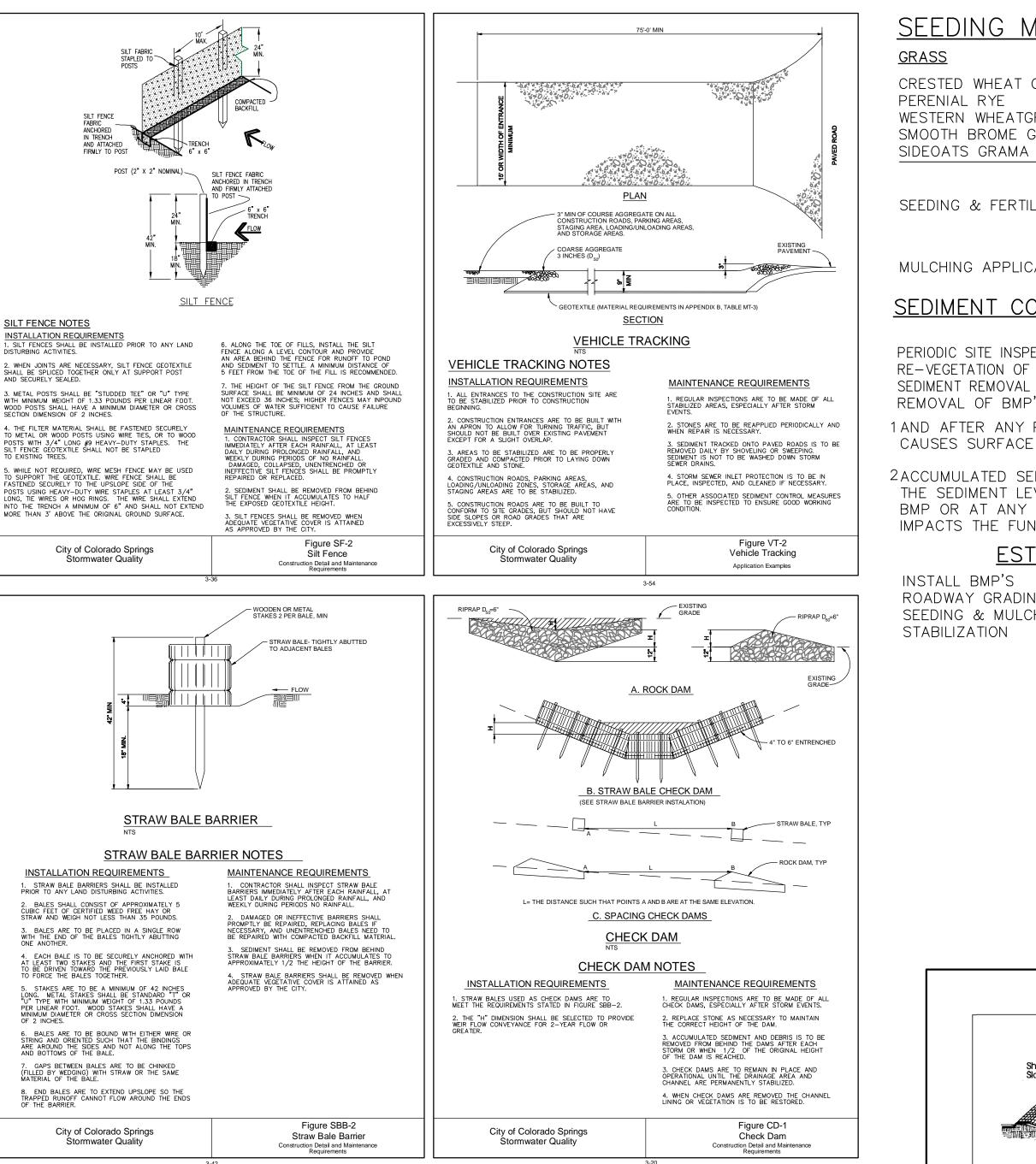
Revised 7/07/10

- Construction may not commence until a Construction Permit is obtained from Planning and Community Development Department and a Preconstruction Conference is held with Planning and Community Development Department 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 (SMWP) 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, 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 stage erosion and sediment control BMPs as indicated on the 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 PCD inspections staff.
- 6. Soil erosion control measures for all slopes, channels, ditches, or any disturbed land area shall be completed within 21 calendar days after final grading, or final earth disturbance, has been completed. Disturbed areas and stockpiles which are not at final grade but will remain dormant 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 prescribed 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 disposed 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 blanketing 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 disposed of immediately.
- 16. Contractor shall be responsible for the removal of all wastes from the construction site for disposal in accordance with local and State regulatory requirements. No construction debris, tree slash, building material wastes or unused building materials shall be buried, dumped, or discharged at the site
- 17. 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 guantity of materials stored on the project site shall be limited, as much as practical, to that guantity 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 ECM 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 adequate 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 dust, 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 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:

Colorado Department of Public Health and Environment Water Quality Control Division WQCD - Permits 4300 Cherry Creek Drive South Denver, CO 80246-1530 Attn: Permits Unit

NOTE:

NOTWITHSTANDING ANY DETAILS, NOTES OR PLANS SHOWN ON THESE DRAWINGS, ALL EROSION CONTROL DESIGNS AND INSTALLATIONS SHALL CONFORM TO EL PASO COUNTY STANDARDS AND POLICIES UNLESS OTHERWISE APPROVED IN WRITING.

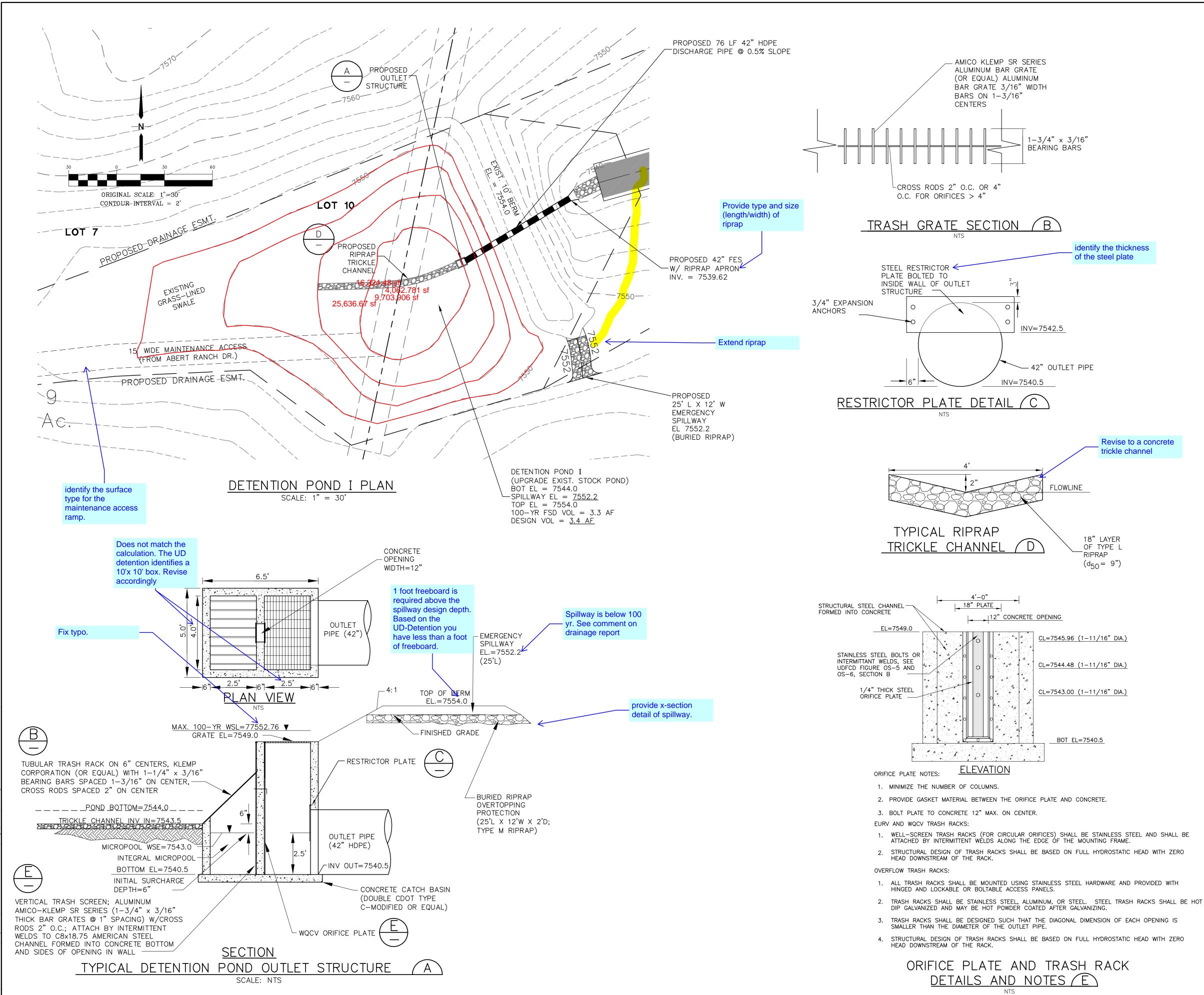


Provide details for BMP's shown on the GEC plan: Temporary sediment basin, concrete washout area, stabilized staging area, and inlet protection



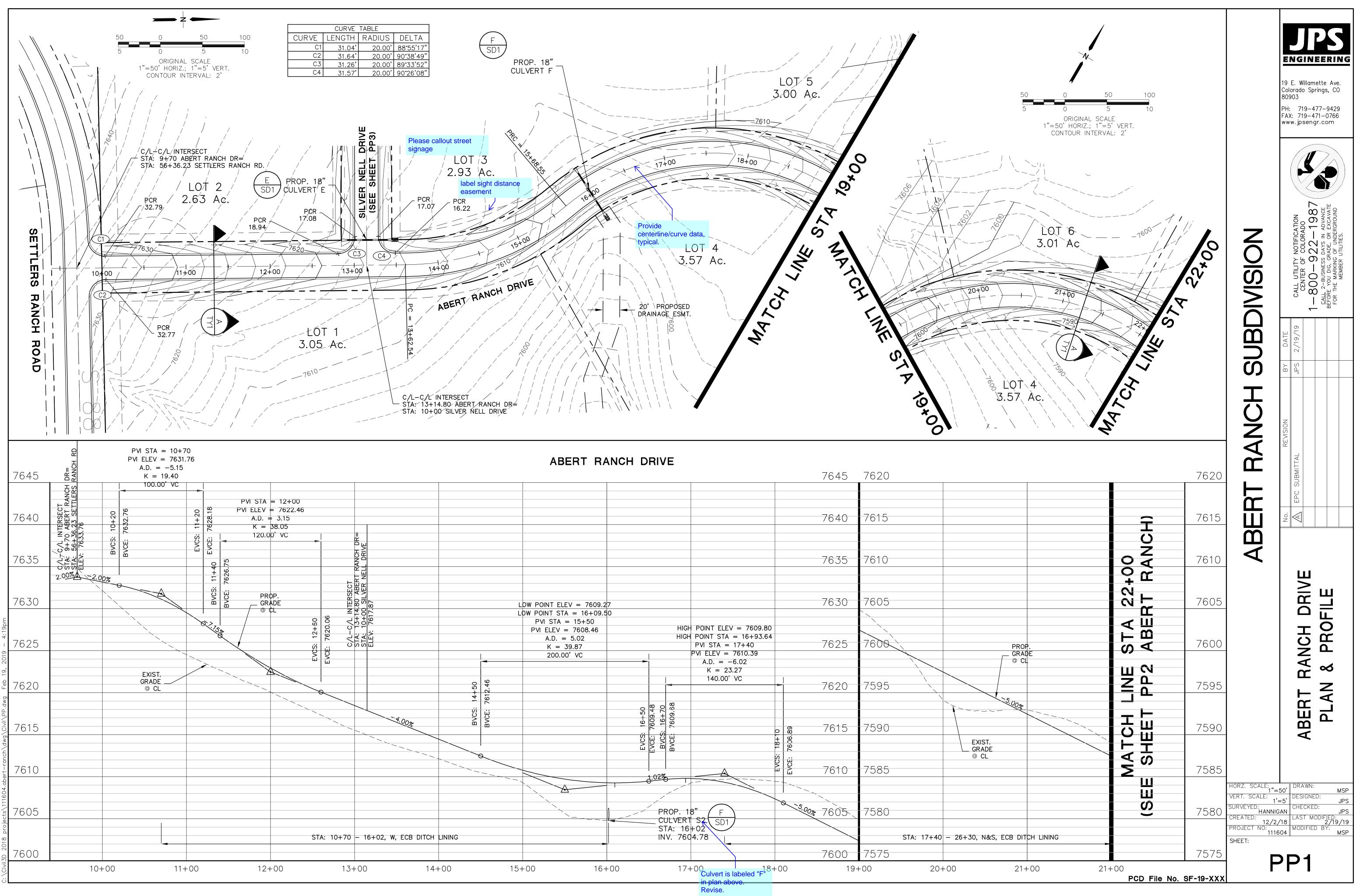
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here there is a berm at the top of the slope, ing the netting over the berm and anchor it shind the berm. Steep Slope S		EROSION CONTROL NOTES & DETAILS
In ditches, apply netting parallel to the direction of parallel to the direction of the direct	VERT. SCALE: N SURVEYED: HANNIG CREATED: 11/26/ PROJECT NO: 1116 SHEET:	18 LAST MODIFIED: 2/19/19 MODIFIED BY:

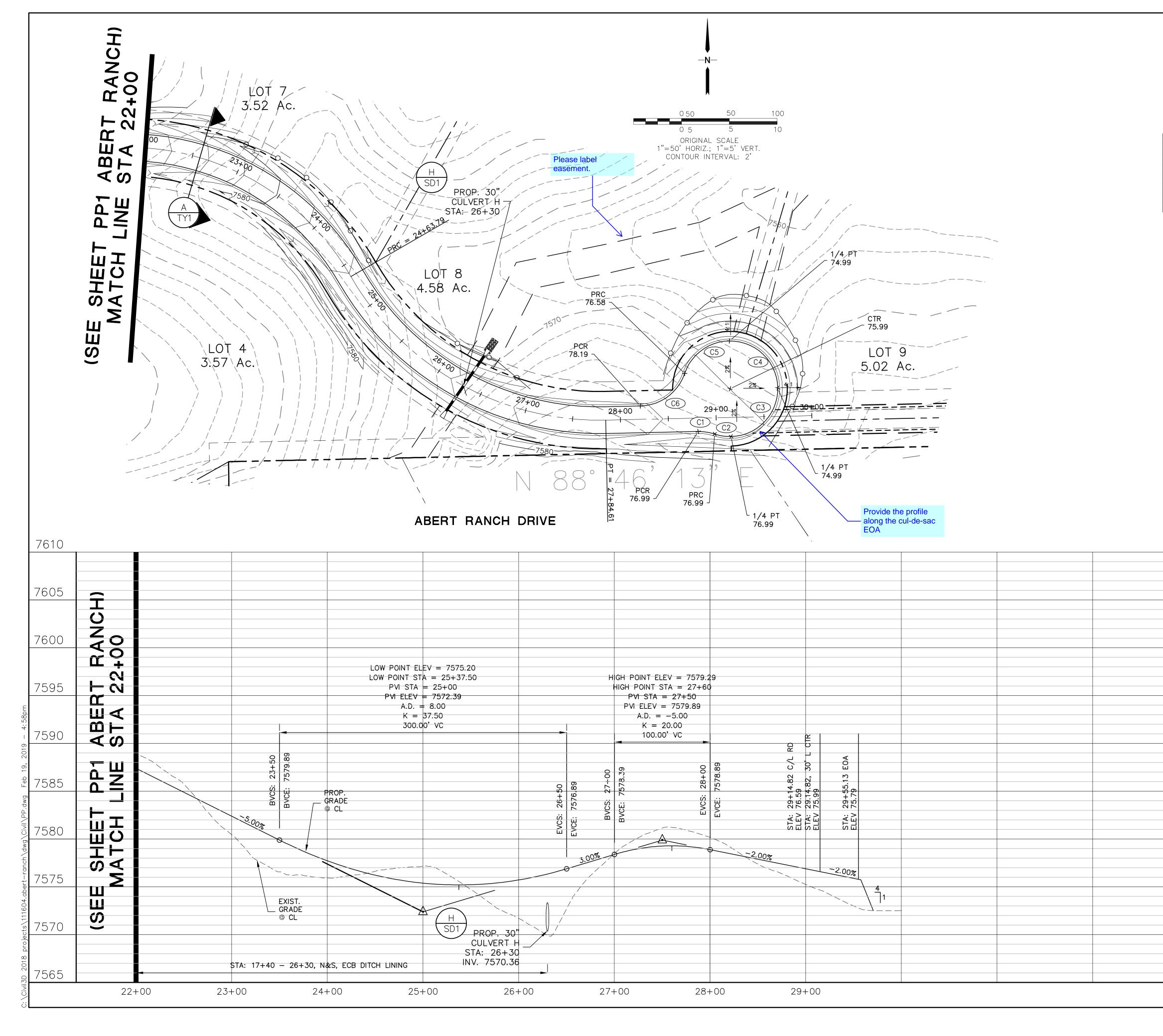
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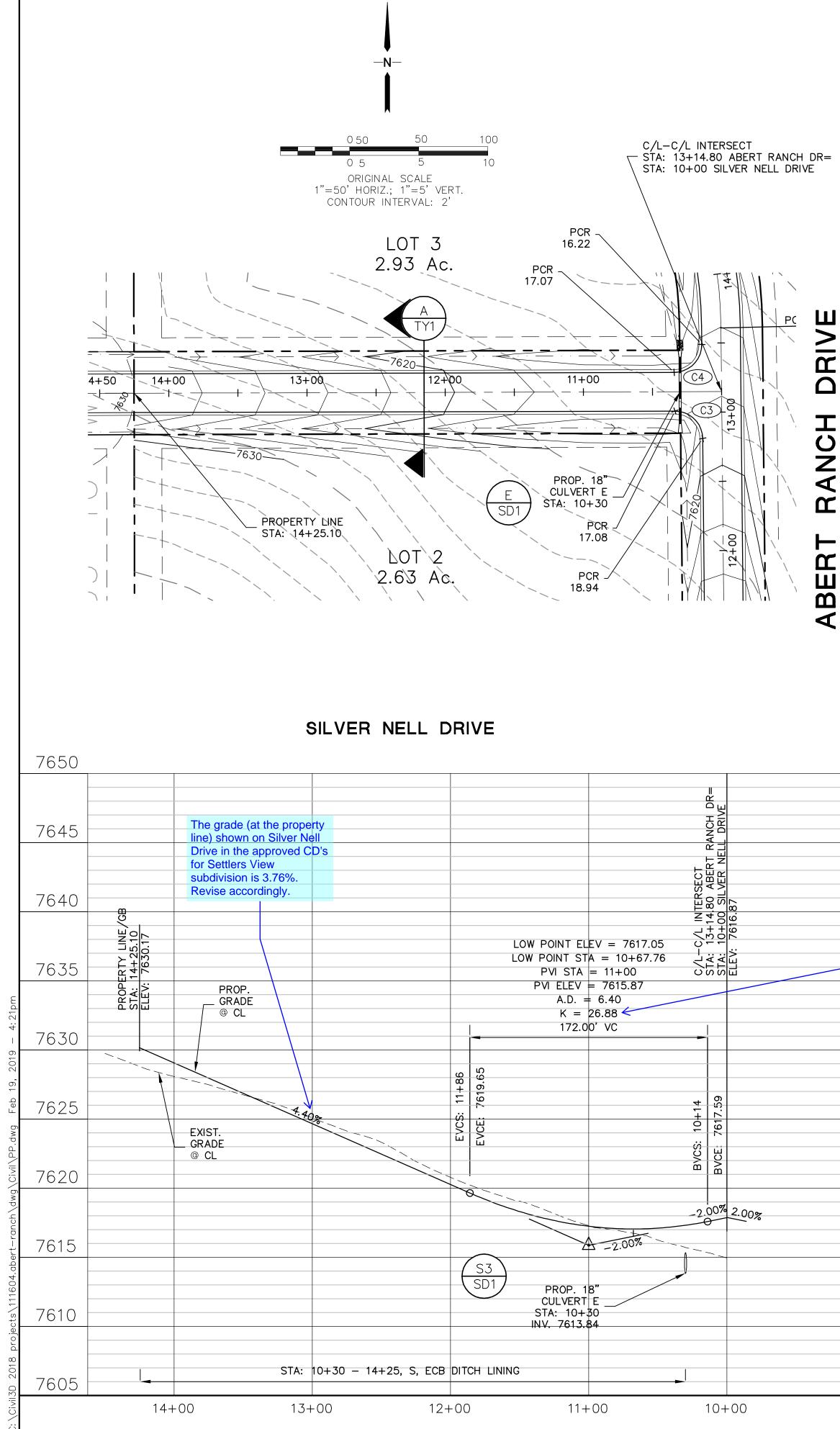


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CURVE TABLE						
LENGTH	RADIUS	DELTA				
17.41'	50.00'	19 ° 56'54"				
17.41'	50.00'	19 ° 56'54"				
78.02'	50.00'	89 ° 24'28"				
78.54'	50.00'	90 ° 00'00"				
61.71'	50.00'	70 ° 42'55"				
61.19'	50.00'	70 ° 07'23"				
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CURVE TABLE						
CURVE	LENGTH	RADIUS	DELTA			
C3	31.26'	20.00'	89°33'52"			
C4	31.57 '	20.00'	90°26'08"			

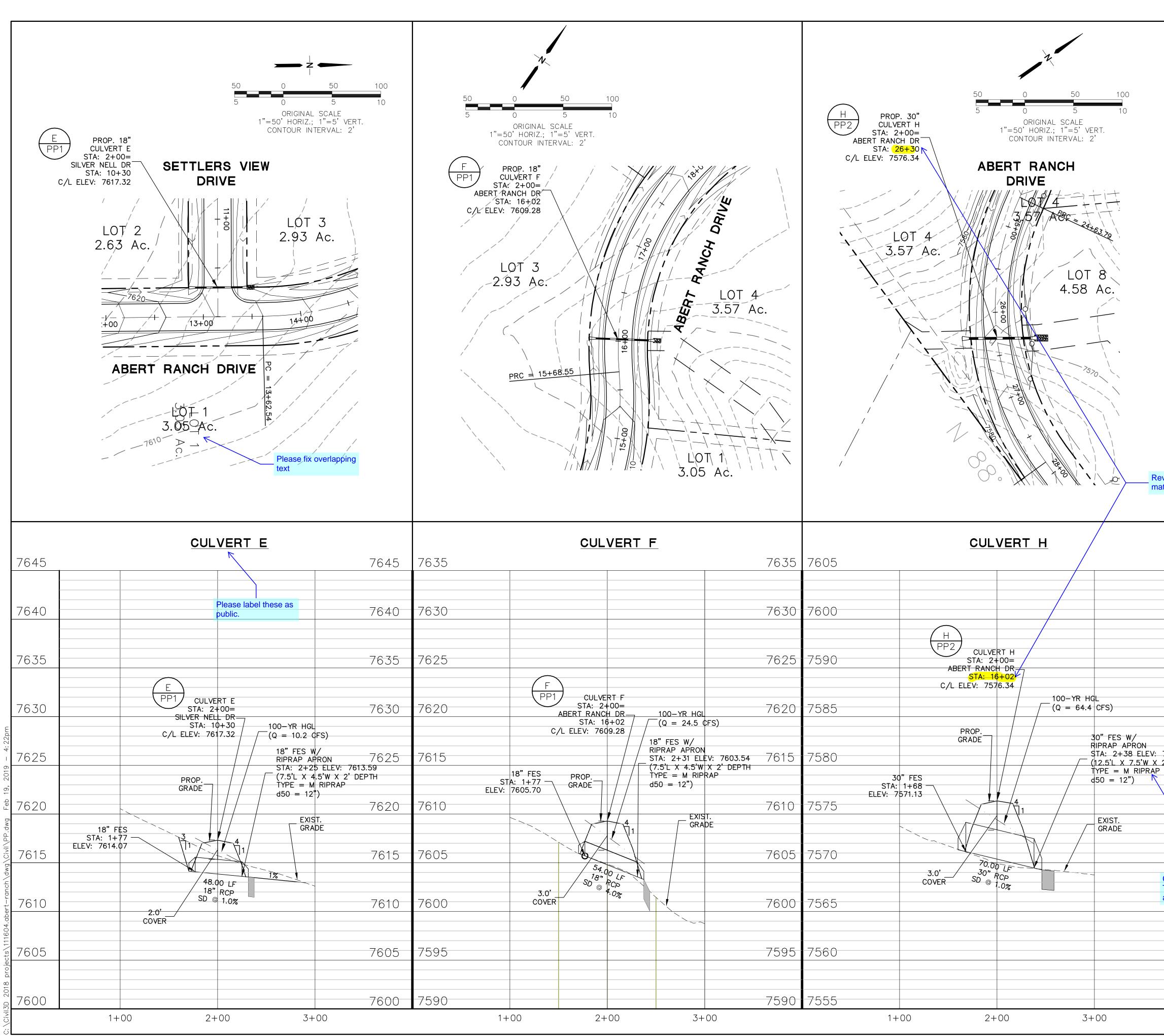
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Min. K value is 37.			
Revise.			

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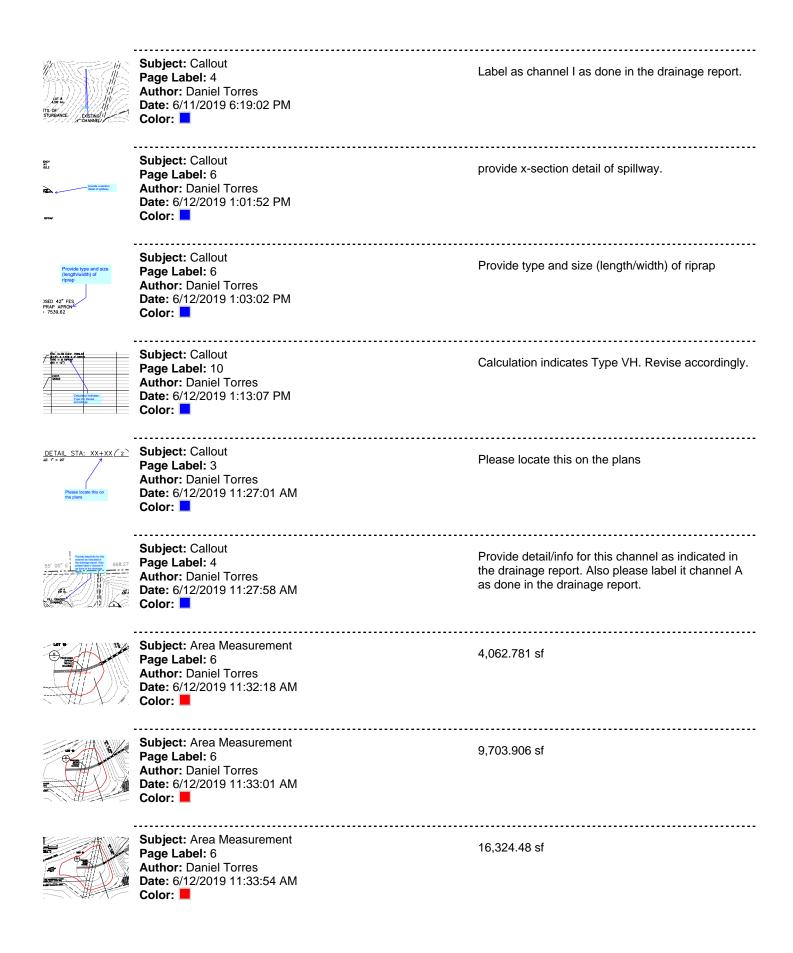
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Markup Summary

Daniel Torres (49)				
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FORE REGISTRIC CONTINUES.	Subject: Callout Page Label: 2 Author: Daniel Torres Date: 6/10/2019 1:24:50 PM Color:	Revise Development Services to Planning and Community Development.		
34 TO AGE INFO CONTLINE OF SIGNES AND STM CHCIPM BALL OTHER A NORE IN THE ROOT OF WA P MANAGED AT THE AND A STRAKE OF STM AND A STRAKE AND A STRAKE OF STM AND A STRAKE AND A STRAKE AND A STRAKE Rests Department of Page Ball Strake Strake Strake Strake Strake Ball Strake Stra	Subject: Callout Page Label: 2 Author: Daniel Torres Date: 6/10/2019 1:27:16 PM Color:	Revise Department of Transportation to Department of Public Works (DPW)		
РАСО СОЛИТ ОГТ АНВ МИТЕО СИТЕНА. ИНВ ИТ АЛАЙСКИТИ ОГТ, КАШИНИ КОКИ ИТ НИВ ИТ АЛАЙСКИТИ ОГТ, КАШИНИ КИСКО ОНИКИ ИТ НОВ ТО МИТ ОТ ЭТАТ БИТИКИМИ, БИКОВ, ОК О ИТ АЛИКИ ОТ ЭТАТ БИТИКИМИ, БИКОВ, ОК О ИТ АЛИКИ ИТ ЭТАТ КОТО ОТ ЭТАТ	Subject: Callout Page Label: 2 Author: Daniel Torres Date: 6/10/2019 1:27:36 PM Color:	Please revise to DPW		
Y <mark>Dot</mark> a	Subject: Highlight Page Label: 2 Author: Daniel Torres Date: 6/10/2019 1:27:40 PM Color:			
Y <mark>Dot,</mark> II	Subject: Highlight Page Label: 2 Author: Daniel Torres Date: 6/10/2019 1:27:41 PM Color:			
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t mm, 12, DAY DURTH / DO ADMETRICOL SPIRE S- NO F	Subject: Callout Page Label: 1 Author: Daniel Torres Date: 6/10/2019 11:56:58 AM Color:	SF1911		

Subject: Text Box Provide details for BMP's shown on the GEC plan: Page Label: 5 Temporary sediment basin, concrete washout Author: Daniel Torres area, stabilized staging area, and inlet protection Date: 6/10/2019 3:29:05 PM Color: 📘 Subject: Callout Identify the required and provided sediment basin Page Label: 4 volume and riser pipe construction Author: Daniel Torres detail/information. Date: 6/10/2019 3:30:24 PM Color: Subject: Perimeter Measurement 242'-10" Page Label: 4 Author: Daniel Torres Date: 6/10/2019 4:54:28 PM Color: Subject: Perimeter Measurement 327'-3" Page Label: 4 Author: Daniel Torres Date: 6/10/2019 4:55:25 PM Color: Subject: Callout Min. K value is 37. Revise. Page Label: 9 Author: Daniel Torres Date: 6/11/2019 1:39:50 PM Color: Subject: Callout Please fix overlapping text Page Label: 10 Author: Daniel Torres Date: 6/11/2019 1:52:05 PM Color: Subject: Callout CULVERT E Please label these as public. Page Label: 10 Author: Daniel Torres Date: 6/11/2019 1:55:46 PM Color: Subject: Callout Please label easement. Page Label: 8 Author: Daniel Torres Date: 6/11/2019 11:25:19 AM Color: Subject: Text Box Please callout street signage Page Label: 7 Author: Daniel Torres LOT 3 Date: 6/11/2019 11:42:10 AM 2.93 Ac Color:

Subject: Callout LOT (3 label sight distance easement 2.93 Ac Page Label: 7 Author: Daniel Torres Date: 6/11/2019 12:47:32 PM Color: Subject: Callout The grade (at the property line) shown on Silver Page Label: 9 Nell Drive in the approved CD's for Settlers View Author: Daniel Torres subdivision is 3.76%. Revise accordingly. Date: 6/11/2019 2:21:33 PM Color: -----CULVERT H STA: 2+00= 3ERT RANCH DR-Subject: Highlight Page Label: 10 Author: Daniel Torres ELEV: 7576.34 Date: 6/11/2019 2:30:30 PM Color: Subject: Callout Revise so that they match Page Label: 10 Author: Daniel Torres Date: 6/11/2019 2:30:50 PM Color: ∠ i uu— Subject: Highlight RANCH DR Page Label: 10 A: 26+30 Author: Daniel Torres Date: 6/11/2019 2:30:55 PM : 7576.34 Color: Subject: Callout Provide centerline/curve data, typical. Page Label: 7 Author: Daniel Torres Date: 6/11/2019 3:51:50 PM LOT 4 3.57 Ac. Color: Subject: Callout Provide the profile along the cul-de-sac EOA Page Label: 8 Author: Daniel Torres Date: 6/11/2019 3:53:33 PM Color: Subject: Callout label all existing and proposed easements with Page Label: 4 their dimensions Author: Daniel Torres Date: 6/11/2019 6:14:17 PM 60 Color: Subject: Callout BM Please revise text style so that it is more clear. Page Label: 4 Author: Daniel Torres Date: 6/11/2019 6:17:58 PM Color:



	Subject: Area Measurement Page Label: 6 Author: Daniel Torres Date: 6/12/2019 11:35:10 AM Color:	25,636.67 sf
	Subject: Callout Page Label: 6 Author: Daniel Torres Date: 6/12/2019 11:48:43 AM Color:	Fix typo.
Tanta la donna sola durad	Subject: Callout Page Label: 6 Author: Daniel Torres Date: 6/12/2019 12:56:45 PM Color:	Revise to a concrete trickle channel
	Subject: Callout Page Label: 6 Author: Daniel Torres Date: 6/12/2019 12:57:02 PM Color:	identify the thickness of the steel plate
Ac-	Subject: Callout Page Label: 6 Author: Daniel Torres Date: 6/12/2019 12:58:20 PM Color:	identify the surface type for the maintenance access ramp.
PROP. 10" (2) 2100 (2) 210 (Subject: Callout Page Label: 7 Author: Daniel Torres Date: 6/12/2019 2:03:12 PM Color:	Culvert is labeled "F" in plan above. Revise.
	Subject: Highlight Page Label: 6 Author: Daniel Torres Date: 6/12/2019 2:48:43 PM Color:	
Gallway is below 100 yr. See commer on yr See commer on y	Subject: Callout Page Label: 6 Author: Daniel Torres Date: 6/12/2019 2:51:05 PM Color:	Spillway is below 100 yr. See comment on drainage report
	Subject: Callout Page Label: 6 Author: Daniel Torres Date: 6/12/2019 2:53:40 PM Color:	Does not match the calculation. The UD detention identifies a 10'x 10' box. Revise accordingly

ALL AND ALL AN	Subject: Callout Page Label: 6 Author: Daniel Torres Date: 6/12/2019 2:57:09 PM Color:	1 foot freeboard is required above the spillway design depth. Based on the UD-Detention you have less than a foot of freeboard.
	Subject: Highlight Page Label: 6 Author: Daniel Torres Date: 6/12/2019 4:48:20 PM Color:	
And a second sec	Subject: Callout Page Label: 6 Author: Daniel Torres Date: 6/12/2019 4:48:23 PM Color:	Extend riprap
CTION I A : NTS Channel is labeled 11 above. Revise.	Subject: Callout Page Label: 4 Author: Daniel Torres Date: 6/12/2019 9:07:09 AM Color:	Channel is labeled I1 above. Revise.