

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

12/04/2020
ENGINEER OF RECORD SIGNATURE DATE

OWNER'S STATEMENT.
I, THE OWNER/DEVELOPER, WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

Kevin Gilpin
DATE 3/12/2021
OWNER SIGNATURE 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 VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH EGM 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 DIRECTOR'S DISCRETION.

APPROVED
Engineering Department
03/16/2021 10:10 PM
EPC Planning & Community Development Department

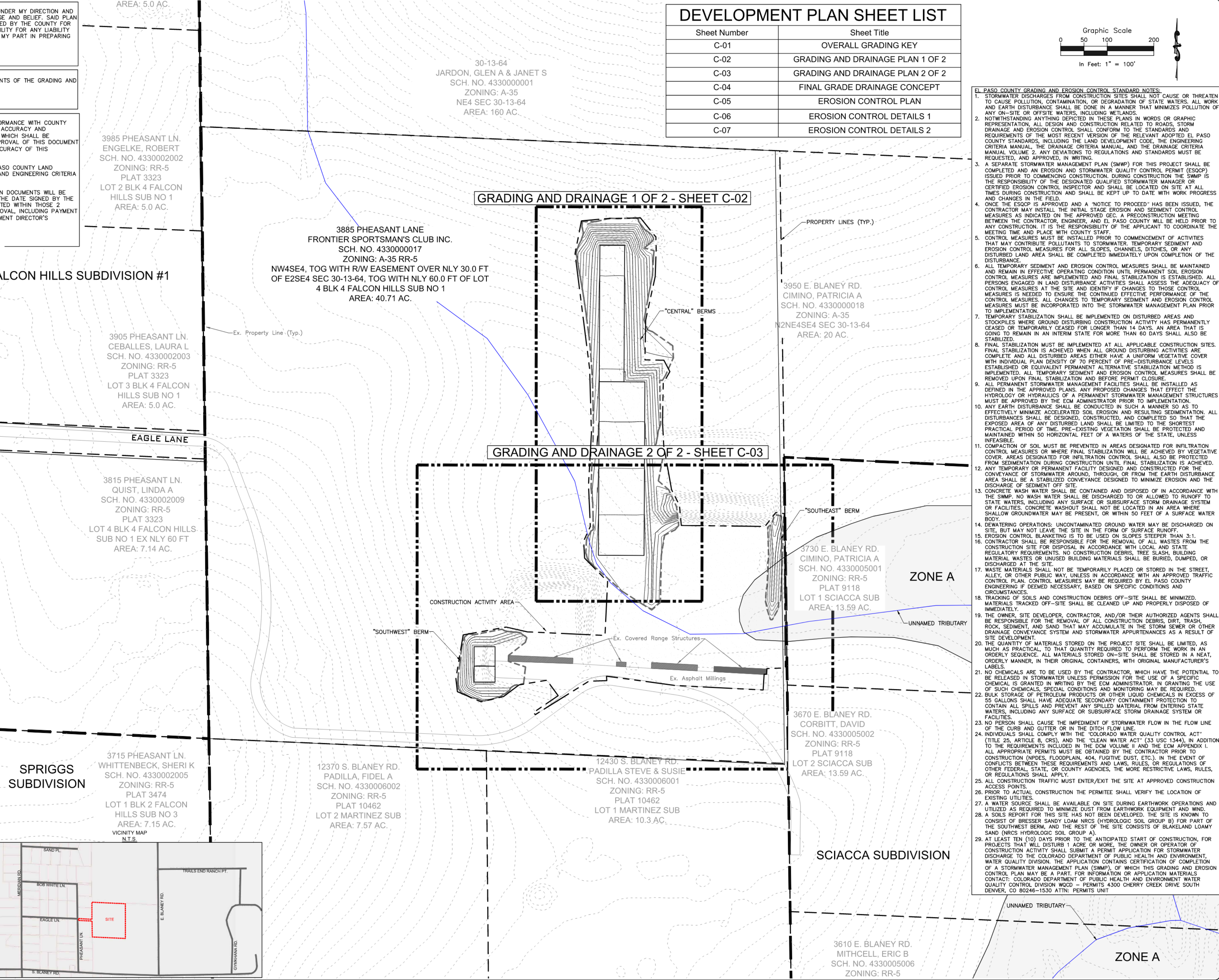
COUNTY ENGINEER/ECM ADMINISTRATOR

- GENERAL NOTES:**
- PROPOSED SLOPES ARE 2:1 FOR SHOOTING RANGE BACKSTOP BERMS. EXISTING OPERATING CONDITIONS AT THE REQUEST OF THE OWNER/DEVELOPER. RMG-ROCKY MOUNTAIN GROUP HAS NOT CONDUCTED A GEOTECHNICAL INVESTIGATION OR SLOPE STABILITY ANALYSIS AND IS NOT RESPONSIBLE FOR THE STABILITY OF THE FINISHED GRADES/SLOPES.
 - FINISHED SLOPES GREATER THAN 3:1 ARE TO CONTAIN GEOTEXTILE FABRIC FOR SLOPE STABILITY.
 - OWNER/DEVELOPER IS RESPONSIBLE FOR THE MAINTENANCE OF FINAL SLOPES/GRADES AND EROSION CONTROL.
 - AN UNNAMED TRIBUTARY IS IDENTIFIED ON THE FEMA FIRM MAP. THE OWNER IS RESPONSIBLE FOR MAINTAINING THE TRIBUTARY FLOW PATTERN.
 - CONTOURS SHOWN ARE FROM CSU FIMS MAPPING GIS DATA. CONTRACTOR AND OWNER/DEVELOPER SHALL VERIFY ELEVATIONS AND DIMENSIONS PRIOR TO CONSTRUCTION.
 - THE PARCEL CONTAINS APPROXIMATELY 37.20 ACRES OF NATIVE GRASSES/WEEDS, CONSISTING OF APPROXIMATELY 91.4 PERCENT OF THE PROPERTY.
 - NO OFF-SITE GRADING OR DISTURBANCE IS TO OCCUR.

FEMA FLOODPLAIN STATEMENT.
A PORTION OF THE SITE TO BE DEVELOPED FALLS WITHIN FEMA FLOOD ZONE A. THE MAJORITY OF THE SITE FALLS WITHIN OTHER AREAS, ZONE X. THESE ZONES AND AN UNNAMED TRIBUTARY IS IDENTIFIED ACCORDING TO FIRM PANEL 05636, MAP NUMBER 08041005636 REVISED DECEMBER 7, 2018. BELOW ARE DESCRIPTIONS OF THE RELEVANT ZONES:
ZONE A: AREAS WITH A 1 PERCENT ANNUAL CHANCE OF FLOODING AND A 26 PERCENT CHANCE OF FLOODING OVER THE LIFE OF 30 YEARS. BECAUSE OF LIMITED ANALYSES ARE NOT PERFORMED FOR SUCH AREAS, NO DEPTHS OR BASE FLOOD ELEVATIONS ARE SHOWN WITHIN THESE ZONES.
ZONE X: AREAS OF MINIMAL FLOOD HAZARD, USUALLY DEPICTED ON FIRMS AS ABOVE THE 500-YEAR FLOOD LEVEL.

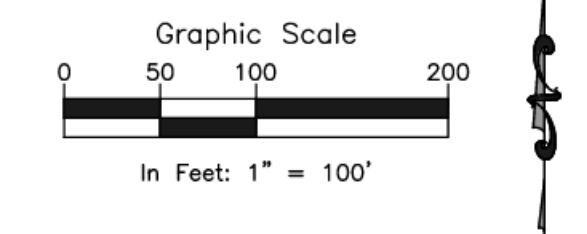
LEGEND

- PROPERTY LINE
- EASEMENT LINE
- SUBDIVISION LINE
- LIMITS OF DISTURBANCE/ CONSTRUCTION SITE BOUNDARY
- CUT/FILL DEMARCATION
- SLOPE ARROW
- SPOT ELEVATION
- EXISTING TRIBUTARY
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- EX. STRUCTURE/BUILDING
- EX. ASPHALT PAVEMENT
- EX. DIRT ROADWAY



DEVELOPMENT PLAN SHEET LIST

Sheet Number	Sheet Title
C-01	OVERALL GRADING KEY
C-02	GRADING AND DRAINAGE PLAN 1 OF 2
C-03	GRADING AND DRAINAGE PLAN 2 OF 2
C-04	FINAL GRADE DRAINAGE CONCEPT
C-05	EROSION CONTROL PLAN
C-06	EROSION CONTROL DETAILS 1
C-07	EROSION CONTROL DETAILS 2



- EL PASO COUNTY GRADING AND EROSION CONTROL STANDARD NOTES:**
- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
 - NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
 - A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR AND SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
 - ONCE THE ESQCP IS APPROVED AND A 'NOTICE TO PROCEED' HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED E.C. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
 - CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT MAY CONTRIBUTE POLLUTANTS TO STORMWATER. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
 - ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRS MADE IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AND MAKE NECESSARY CHANGES TO EROSION CONTROL MEASURES. MEASURES ARE TO BE MAINTAINED AND REPAIRS MADE TO THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN PRIOR TO IMPLEMENTATION.
 - TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE STABILIZED.
 - FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL APPLICABLE CONSTRUCTION ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS, ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
 - ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE HYDROLOGY OR HYDRAULICS OF A PERMANENT STORMWATER MANAGEMENT STRUCTURE MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
 - ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE, UNLESS INFEASIBLE.
 - COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED.
 - ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF-SITE.
 - CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUT SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY.
 - DEWATERING OPERATIONS: UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT MAY NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF.
 - EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
 - WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
 - TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
 - THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRTY 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.
 - THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
 - NO 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.
 - BULK STORAGE OF PETROLEUM PRODUCTS OR OTHER LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL HAVE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
 - NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCH FLOW LINE.
 - 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.
 - ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
 - PRIOR TO ACTUAL CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
 - A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
 - A SOILS REPORT FOR THIS SITE HAS NOT BEEN DEVELOPED. THE SITE IS KNOWN TO CONSIST OF BRESSER SANDY LOAM NRCS (HYDROLOGIC SOIL GROUP B) FOR PART OF THE SOUTHWEST BERM, AND THE REST OF THE SITE CONSISTS OF BLAKELAND LOAMY SAND (NRCS HYDROLOGIC SOIL GROUP A).
 - AT LEAST TEN (10) 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 WOOD - PERMITS 4300 CHERRY CREEK DRIVE SOUTH DENVER, CO 80246-1530 ATTN: PERMITS UNIT

ROCKY MOUNTAIN GROUP
ARCHITECTS
Geotechnical
Maintenance
Civil/Planning
RMG
Environmental
Structural
Forensics

FRONTIER SPORTSMAN'S CLUB
3888 PHEASANT LANE
PEYTON, CO

OVERALL GRADING KEY

PERMIT

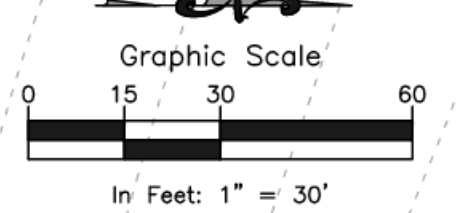
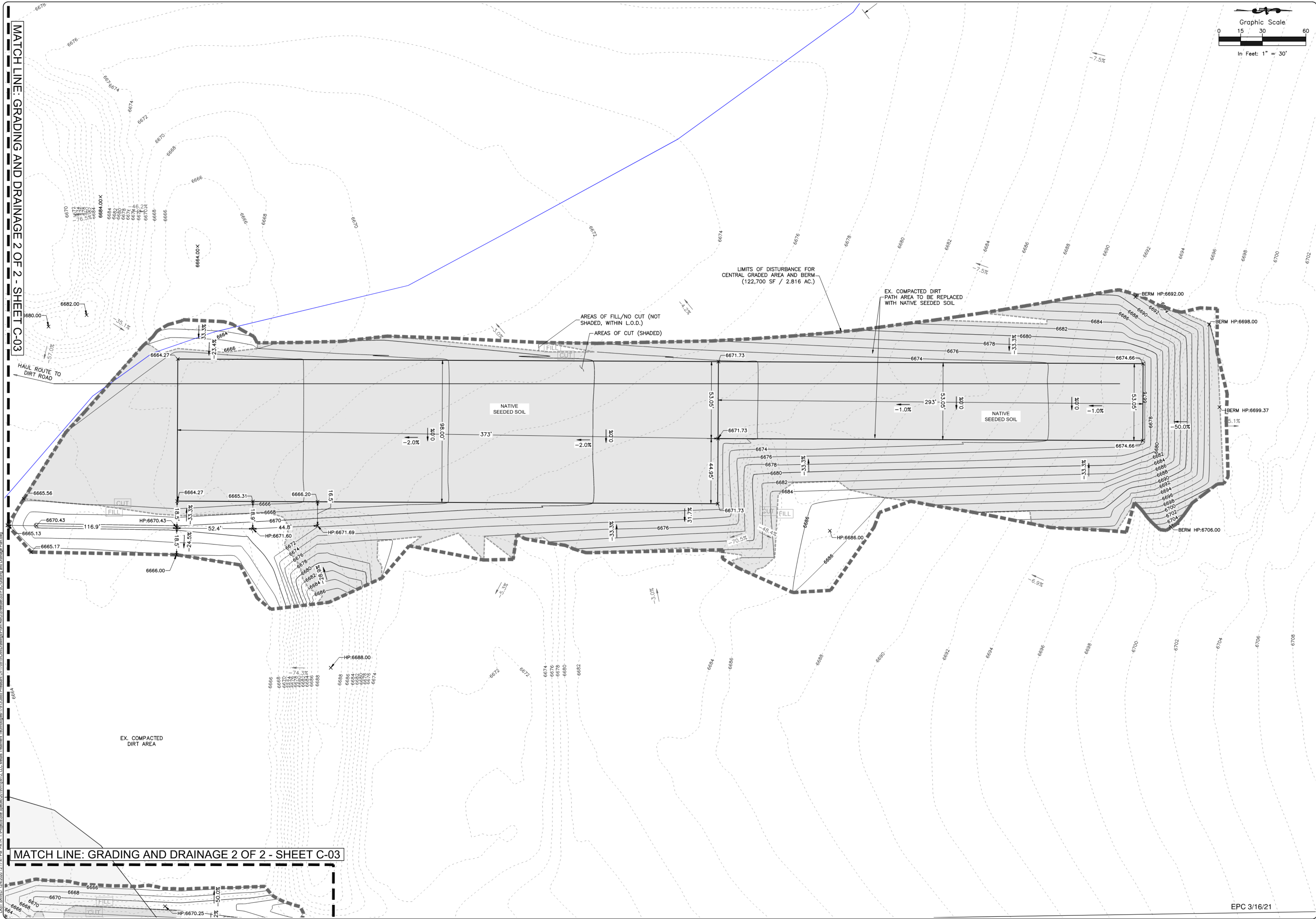
DATE: 12/02/2020

REVISION DATE

JOB NO: 170915

SHEET NO: C-01 of 07

PPR-19-054



MATCH LINE: GRADING AND DRAINAGE 2 OF 2 - SHEET C-03

MATCH LINE: GRADING AND DRAINAGE 2 OF 2 - SHEET C-03

ROCKY MOUNTAIN GROUP
 ARCHITECTS
RMG
 ENGINEERS
 Geotechnical
 Materials Testing
 Civil, Planning
 Architectural
 Structural
 Forestry

SOUTHERN COLORADO
 19375 BEACON LITE RD. - MONUMENT, CO 80132
 719.458.5145 WWW.RMENGINEERS.COM
 SURVEYING, ENGINEERING, DRIVING, PLANNING, INSURANCE, CONSTRUCTION



FRONTIER SPORTSMAN'S CLUB
 3885 PHEASANT LANE
 PEYTON, CO

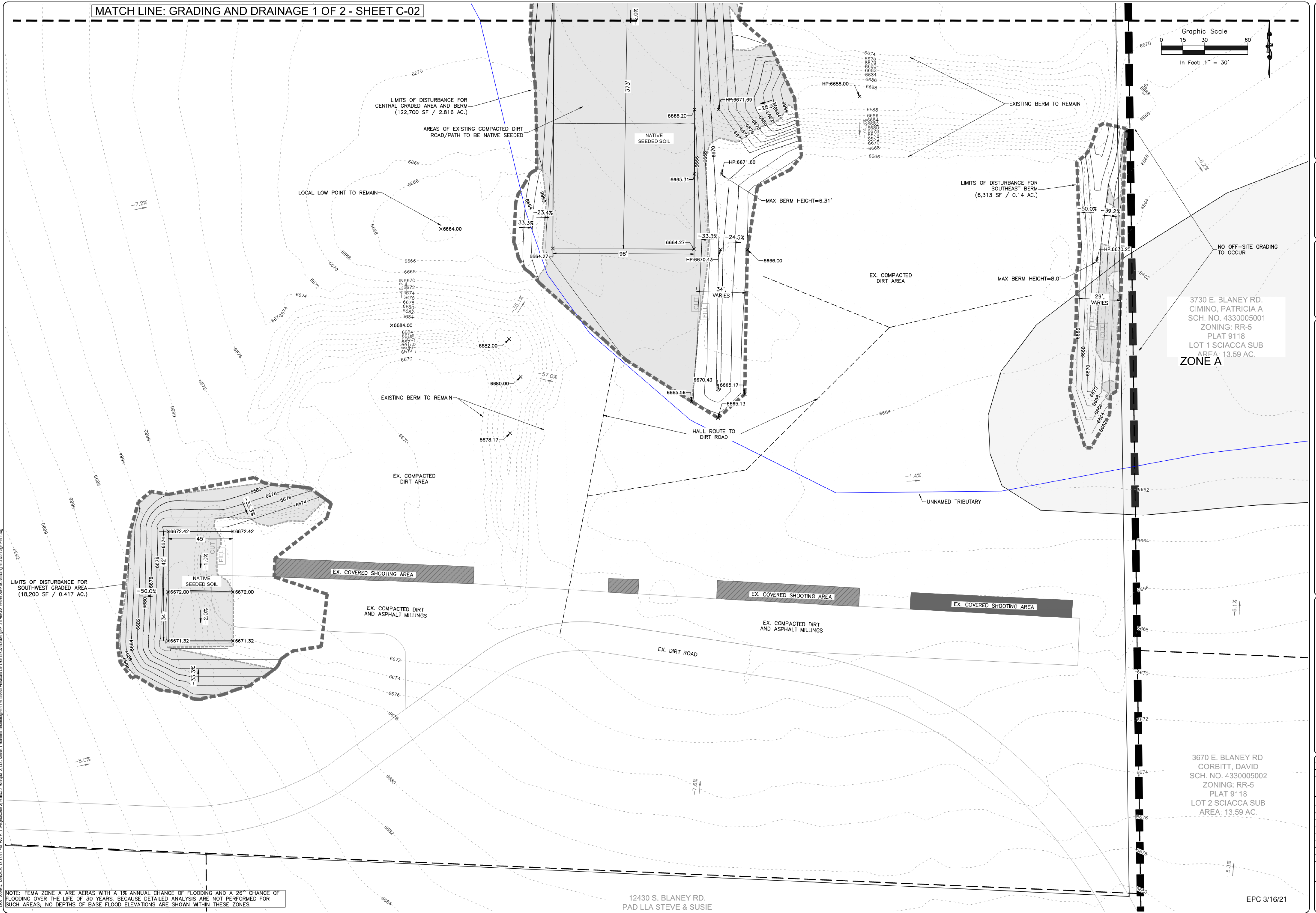
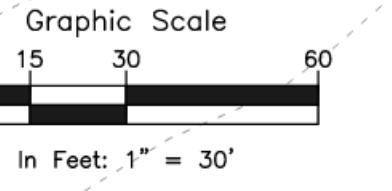
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SHEET NAME		PROJECT STATUS	
GRADING AND DRAINAGE PLAN 1 OF 2		PERMIT	
ENG:	RDL	DRAWN:	RDL
CHECKED:	RDL	DATE	12/02/2020
#	REVISION	DATE	
JOB NO.	170915		
SHEET NO.	C-02 of 07		

EPC 3/16/21

MATCH LINE: GRADING AND DRAINAGE 1 OF 2 - SHEET C-02



3730 E. BLANEY RD.
CIMINO, PATRICIA A
SCH. NO. 4330005001
ZONING: RR-5
PLAT 9118
LOT 1 SCIACCA SUB
AREA: 13.59 AC.
ZONE A

3670 E. BLANEY RD.
CORBITT, DAVID
SCH. NO. 4330005002
ZONING: RR-5
PLAT 9118
LOT 2 SCIACCA SUB
AREA: 13.59 AC.

ROCKY MOUNTAIN GROUP
ARCHITECTS
Structural
Forestry

19375 BEACON LITE RD. • MOUNTAIN VIEW, CO 80132
TEL: (719) 485-5145 • WWW.ROCKYMOUNTAINENGINEERS.COM
Structural, Electrical, Mechanical, Plumbing, Fire Protection, Life Safety, Construction Management, and Program Management.

FOR CONSTRUCTION ONLY

FRONTIER SPORTSMAN'S CLUB
3885 PHEASANT LANE
PEYTON, CO

MT2, LLC. METALS TREATMENT TECHNOLOGIES

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GRADING AND DRAINAGE PLAN 2 OF 2

PROJECT STATUS: **PERMIT**

ENG:	RDL	
DRAWN:	RDL	
CHECKED:	RDL	
DATE	12/02/2020	
#	REVISION	DATE
1		12/02/2020
JOB NO.	170915	
SHEET NO.	C-03	of 07

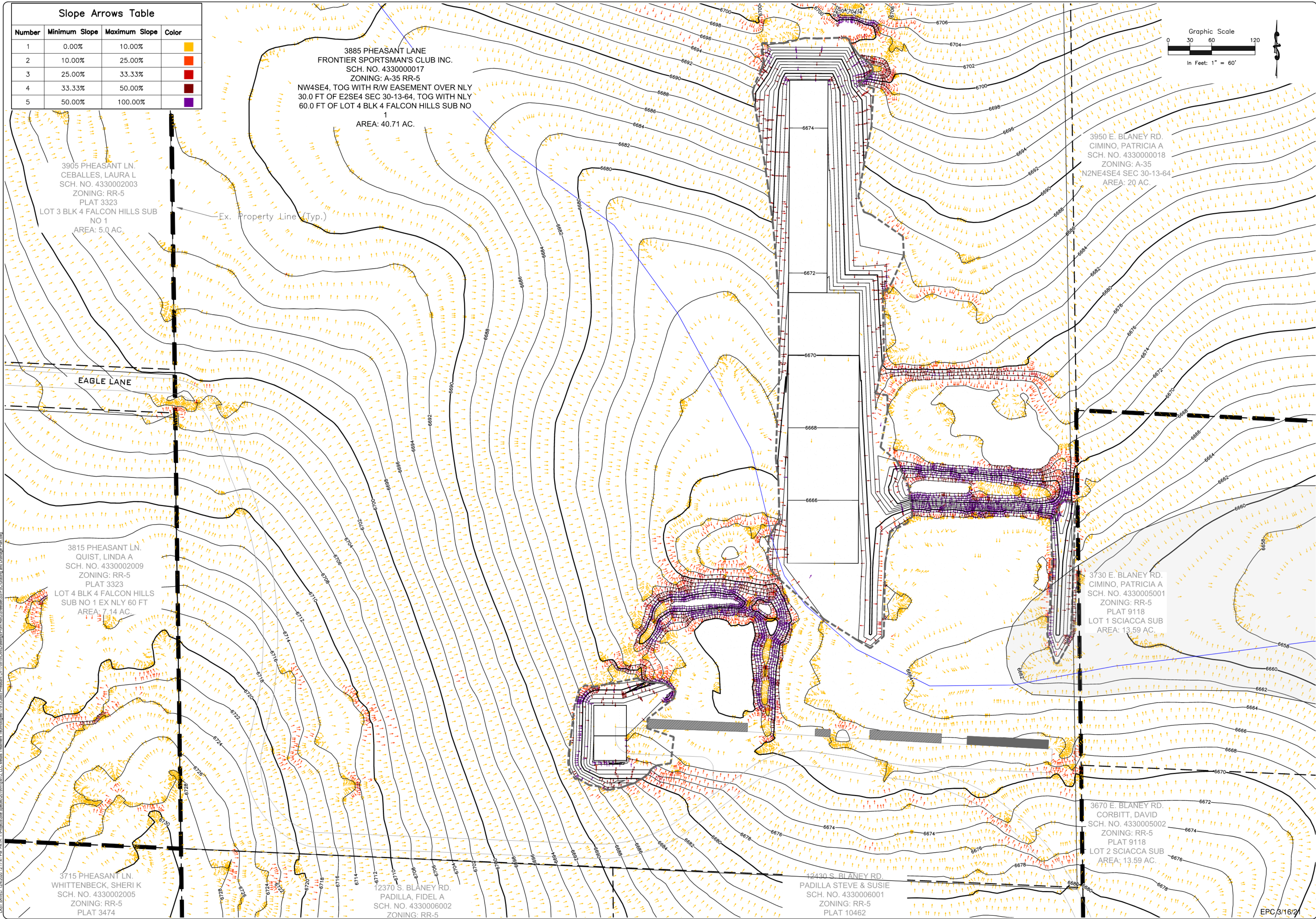
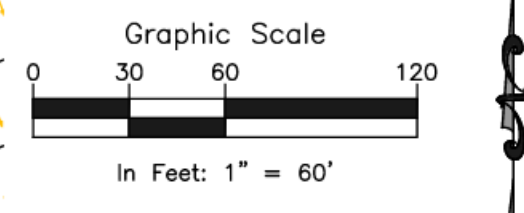
NOTE: FEMA ZONE A AREAS WITH A 1% ANNUAL CHANCE OF FLOODING AND A 26" CHANCE OF FLOODING OVER THE LIFE OF 30 YEARS. BECAUSE DETAILED ANALYSIS ARE NOT PERFORMED FOR SUCH AREAS, NO DEPTHS OF BASE FLOOD ELEVATIONS ARE SHOWN WITHIN THESE ZONES.

12430 S. BLANEY RD.
PADILLA STEVE & SUSIE

EPC 3/16/21

PPR-19-054

Slope Arrows Table			
Number	Minimum Slope	Maximum Slope	Color
1	0.00%	10.00%	Yellow
2	10.00%	25.00%	Orange
3	25.00%	33.33%	Red
4	33.33%	50.00%	Dark Red
5	50.00%	100.00%	Purple



3885 PHEASANT LANE
FRONTIER SPORTSMAN'S CLUB INC.
SCH. NO. 433000017
ZONING: A-35 RR-5
NW4SE4, TOG WITH R/W EASEMENT OVER NLY
30.0 FT OF E2SE4 SEC 30-13-64, TOG WITH NLY
60.0 FT OF LOT 4 BLK 4 FALCON HILLS SUB NO
1
AREA: 40.71 AC.

3905 PHEASANT LN.
CEBALLES, LAURA L
SCH. NO. 4330002003
ZONING: RR-5
PLAT 3323
LOT 3 BLK 4 FALCON HILLS SUB
NO 1
AREA: 5.0 AC.

3950 E. BLANEY RD.
CIMINO, PATRICIA A
SCH. NO. 433000018
ZONING: A-35
N2NE4SE4 SEC 30-13-64
AREA: 20 AC.

EAGLE LANE

3815 PHEASANT LN.
QUIST, LINDA A
SCH. NO. 4330002009
ZONING: RR-5
PLAT 3323
LOT 4 BLK 4 FALCON HILLS
SUB NO 1 EX NLY 60 FT
AREA: 7.14 AC.

3730 E. BLANEY RD.
CIMINO, PATRICIA A
SCH. NO. 4330005001
ZONING: RR-5
PLAT 9118
LOT 1 SCIACCA SUB
AREA: 13.59 AC.

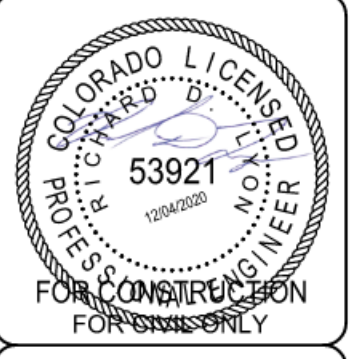
3715 PHEASANT LN.
WHITTENBECK, SHERI K
SCH. NO. 4330002005
ZONING: RR-5
PLAT 3474

12370 S. BLANEY RD.
PADILLA, FIDEL A
SCH. NO. 4330006002
ZONING: RR-5

12430 S. BLANEY RD.
PADILLA STEVE & SUSIE
SCH. NO. 4330006001
ZONING: RR-5
PLAT 10462

3670 E. BLANEY RD.
CORBITT, DAVID
SCH. NO. 4330005002
ZONING: RR-5
PLAT 9118
LOT 2 SCIACCA SUB
AREA: 13.59 AC.

ROCKY MOUNTAIN GROUP
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FRONTIER SPORTSMAN'S CLUB
3885 PHEASANT LANE
PEYTON, CO
MT2, LLC, METALS TREATMENT TECHNOLOGIES

SHEET NAME	FINAL GRADE DRAINAGE CONCEPT	
PROJECT STATUS	PERMIT	
ENG:	RDL	
DRAWN:	RDL	
CHECKED:	RDL	
DATE	12/02/2020	
#	REVISION	DATE
1		12/02/2020
JOB NO. 170915		
SHEET NO. C-04 of 07		

LAST SAVED: 12/02/2020 12:17:41 PM PATH: T:\Projects\Site_Specs\2019\19-05-CMT2, LLC Metals Treatment\Drawings\From RUCS\Sheet\SS-FSC-Grading and Drainage Plan.dwg

ENGINEER OF RECORD:
THE STORMWATER MANAGEMENT PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY AND STATE FOR STORMWATER MANAGEMENT PLANS.

12/04/2020
ENGINEERING OF RECORD SIGNATURE DATE

REVIEW ENGINEER:
THE STORMWATER MANAGEMENT PLAN WAS REVIEWED AND FOUND TO MEET THE CHECKLIST REQUIREMENTS EXCEPT WHERE OTHERWISE NOTED OR ALLOWED BY AN APPROVED DEVIATION REQUEST.

REVIEW ENGINEER DATE

3885 PHEASANT LANE
FRONTIER SPORTSMAN'S CLUB INC.
SCH. NO. 4330000017
ZONING: A-35 RR-5
NW4SE4, TOG WITH R/W EASEMENT OVER NLY
30.0 FT OF E2SE4 SEC 30-13-64, TOG WITH NLY
60.0 FT OF LOT 4 BLK 4 FALCON HILLS SUB NO
1
AREA: 40.71 AC.

3905 PHEASANT LN.
CEBALLES, LAURA L
SCH. NO. 4330002003
ZONING: RR-5
PLAT 3323
LOT 3 BLK 4 FALCON HILLS SUB
NO 1
AREA: 5.0 AC.

Ex. Property Line (Typ.)

EAGLE LANE

3815 PHEASANT LN.
QUIST, LINDA A
SCH. NO. 4330002009
ZONING: RR-5
PLAT 3323
LOT 4 BLK 4 FALCON HILLS
SUB NO 1 EX NLY 60 FT
AREA: 7.14 AC.

LEGEND

- PROPERTY LINE
- EASEMENT LINE
- LIMITS OF DISTURBANCE/
CONSTRUCTION SITE BOUNDARY
- CUT FILL
X.X%
SLOPE ARROW / FLOW
DIRECTION
- SPOT ELEVATION
- EXISTING TRIBUTARY
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- SF --- SILT FENCE
- SP STOCKPILE AREA
- SCL SEDIMENT CONTROL LOG
- ECB EROSION CONTROL BLANKET
- TSB TEMPORARY SEDIMENT BASIN
- SSA STABILIZED STAGING AREA
- PS PERMANENT SEEDING
- VTC VEHICLE TRACKING CONTROL
- EX. STRUCTURE/BUILDING
- EX. ASPHALT PAVEMENT
- EX. DIRT ROADWAY

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TEMPORARY SEDIMENT BASIN FOR
0.5-ACRE SURROUNDING AREA.
4:1 SLOPES, 4' DEPTH,
BOTTOM=16'x8', TOTAL 1,920 SF AREA
SOUTH SPILLWAY OF 1' WIDTH

EROSION CONTROL BLANKET TO BE
INSTALLED ON ALL PROPOSED
SLOPES/BERMS (SOUTHWEST
GRADED AREA: 5,168 SF) (FINAL)

LIMITS OF DISTURBANCE FOR
SOUTHWEST GRADED AREA
(18,200 SF / 0.417 AC.)

PERMANENT SEEDING OF 3:1
SIDE EMBANKMENTS (TYP.)

EROSION CONTROL BLANKET
TO BE INSTALLED ON ALL
PROPOSED SLOPES/BERMS
(CENTRAL GRADED AREA AND
BERM: 55,000 SF) (FINAL)

PERMANENT SEEDING OF 3:1
SIDE EMBANKMENTS (TYP.)

LIMITS OF DISTURBANCE FOR
CENTRAL GRADED AREA AND BERM
(122,700 SF / 2.816 AC.)

98 LF OF SEDIMENT CONTROL LOG
(INITIAL, INTERIM, FINAL)

TEMPORARY SEDIMENT BASIN FOR
2.5-ACRE DISTURBANCE AREA NORTH,
EAST, WEST, 3:1 SLOPES, 4' DEPTH,
BOTTOM=24'x48', TOTAL 3,456 SF AREA
SOUTH SPILLWAY OF 4' WIDTH

EROSION CONTROL BLANKET
TO BE INSTALLED ON ALL
PROPOSED SLOPES/BERMS.
(SOUTHEAST BERM: 6,313 SF)
(FINAL)

LIMITS OF DISTURBANCE FOR
SOUTHEAST BERM
(6,313 SF / 0.14 AC.)

EROSION CONTROL BLANKET
TO BE INSTALLED ON ALL
PROPOSED SLOPES/BERMS
(CENTRAL GRADED AREA AND
BERM: 55,000 SF) (FINAL)

TEMPORARY SEDIMENT BASIN FOR
0.5-ACRE SURROUNDING AREA.
4:1 SLOPES, 4' DEPTH,
BOTTOM=16'x8', TOTAL 1,920 SF AREA
SOUTH SPILLWAY OF 1' WIDTH

LIMITS OF DISTURBANCE
FOR TEMP. BMPS
(16,000 SF / 0.36 AC.)

180 LF OF SEDIMENT CONTROL LOG
(INITIAL, INTERIM, FINAL)

STOCKPILE AREA

STABILIZED STAGING AREA

JOB TRAILER LOCATION
(OPTIONAL)

VEHICLE TRACKING CONTROL MAT,
NO DIRT, MUD, OR SEDIMENT
TO BE TRACKED OFF-SITE (INITIAL, INTERIM)

INSTALL BARRICADES AND SIGNAGE
TO DIRECT VEHICLES

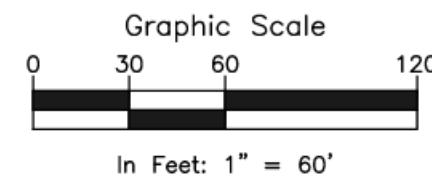
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CIMINO, PATRICIA A
SCH. NO. 4330000018
ZONING: A-35
N2NE4SE4 SEC 30-13-64
AREA: 20 AC.

3730 E. BLANEY RD.
CIMINO, PATRICIA A
SCH. NO. 4330005001
ZONING: RR-5
PLAT 9118
LOT 1 SCIACCA SUB
AREA: 13.59 AC.

3670 E. BLANEY RD.
CORBITT, DAVID
SCH. NO. 4330005002
ZONING: RR-5
PLAT 9118
LOT 2 SCIACCA SUB
AREA: 13.59 AC.

12370 S. BLANEY RD.
PADILLA, FIDEL A
SCH. NO. 4330006002
ZONING: RR-5

12430 S. BLANEY RD.
PADILLA STEVE & SUSIE
SCH. NO. 4330006001
ZONING: RR-5
PLAT 10462



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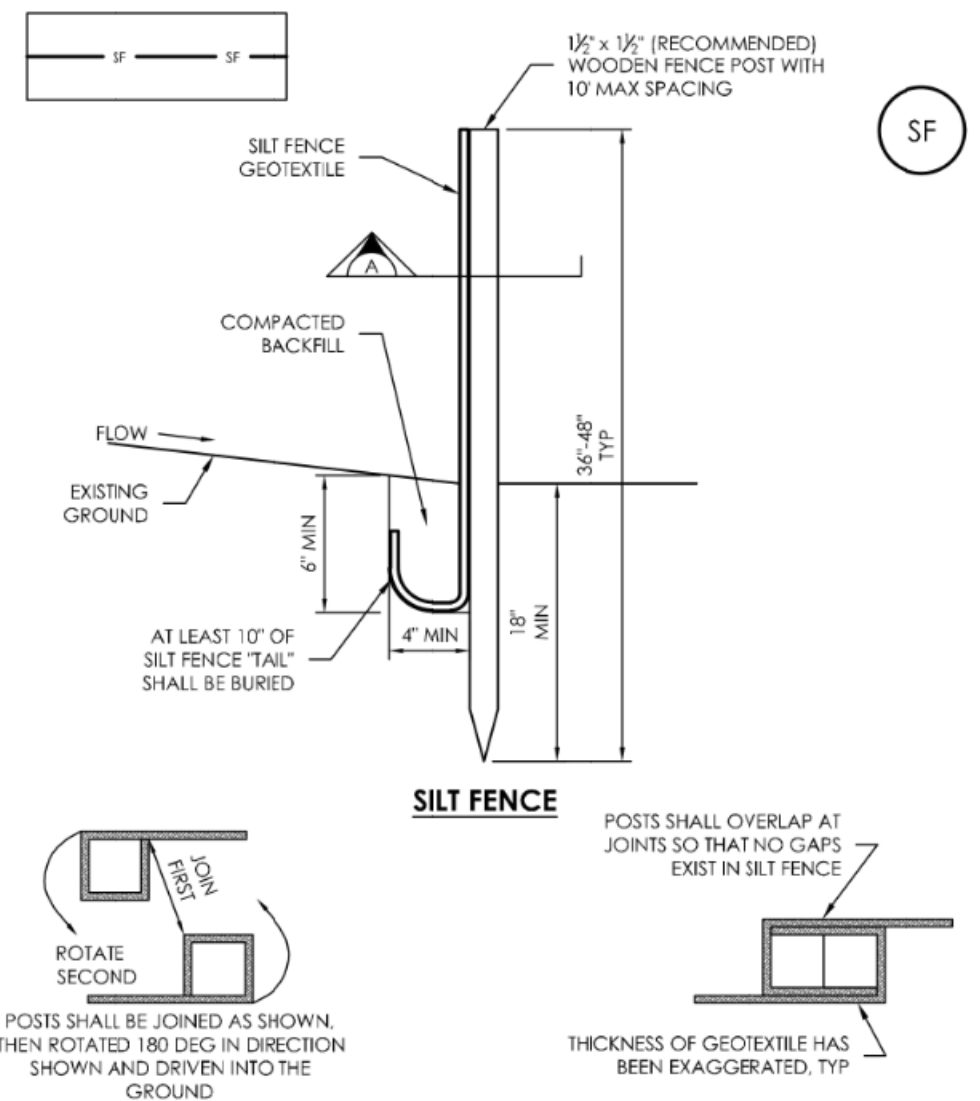
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SHEET NAME: EROSION CONTROL PLAN
PROJECT STATUS: PERMIT

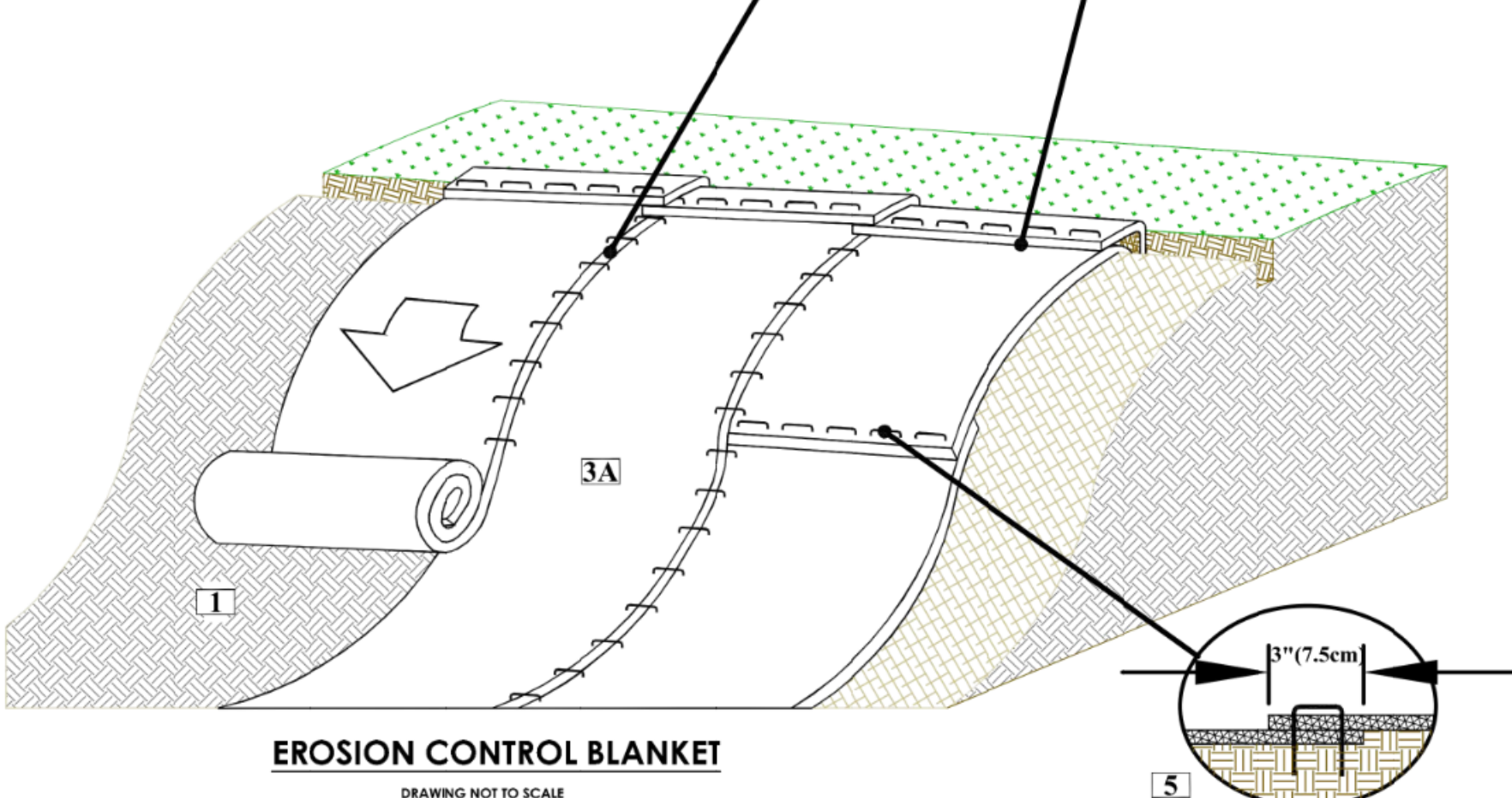
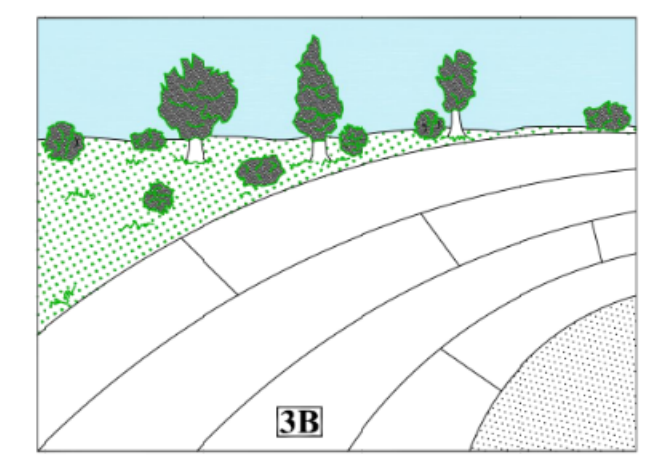
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SHEET NO.	C-05 of 07	



SECTION A SF-1. SILT FENCE

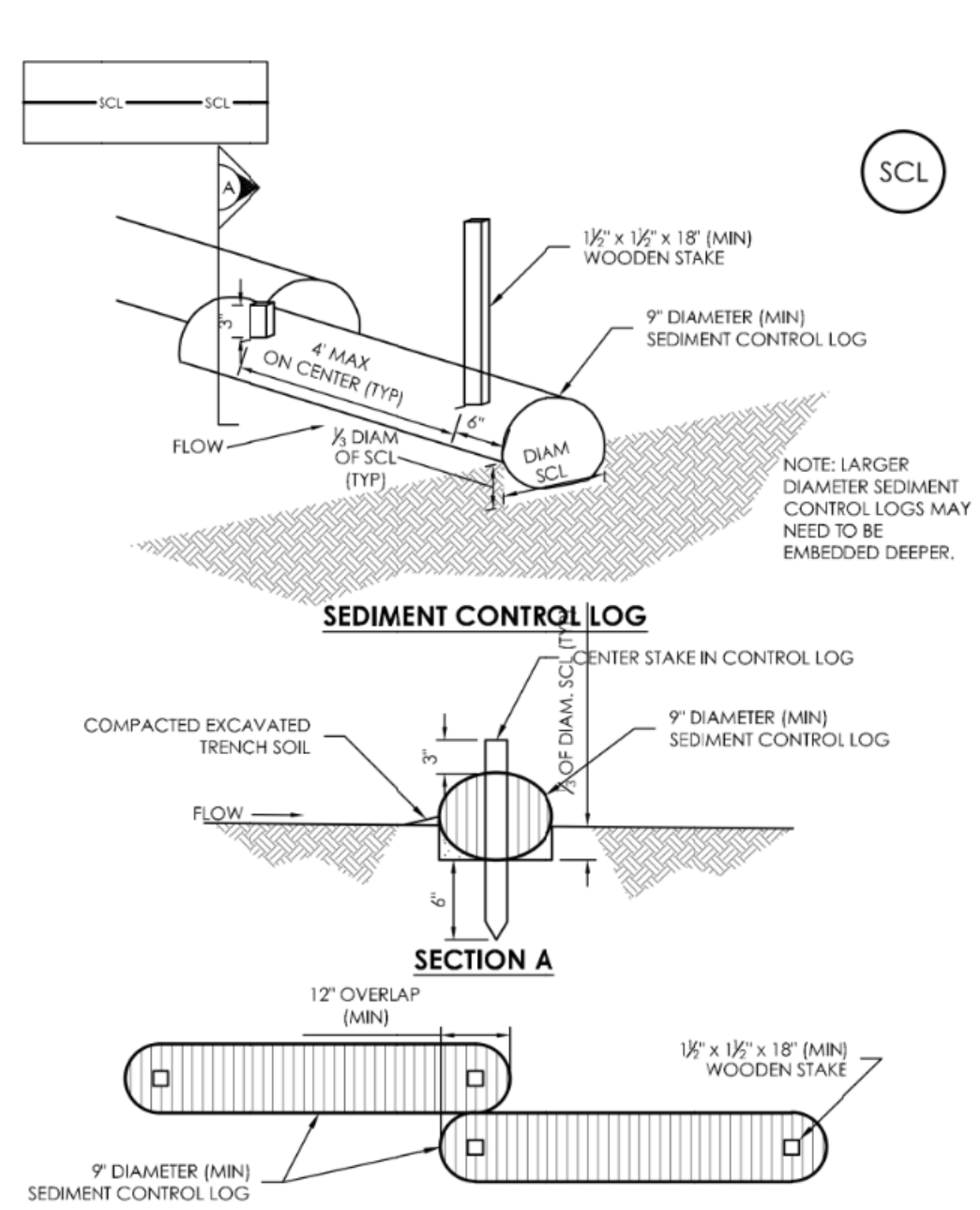
- SILT FENCE INSTALLATION NOTES:**
- SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.
 - A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.
 - COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
 - SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
 - SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 7 HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3' ALONG THE FABRIC DOWN THE STAKE.
 - AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK" OR "U-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').
 - SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

- SILT FENCE MAINTENANCE NOTES:**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".
 - REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
 - SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
 - WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.



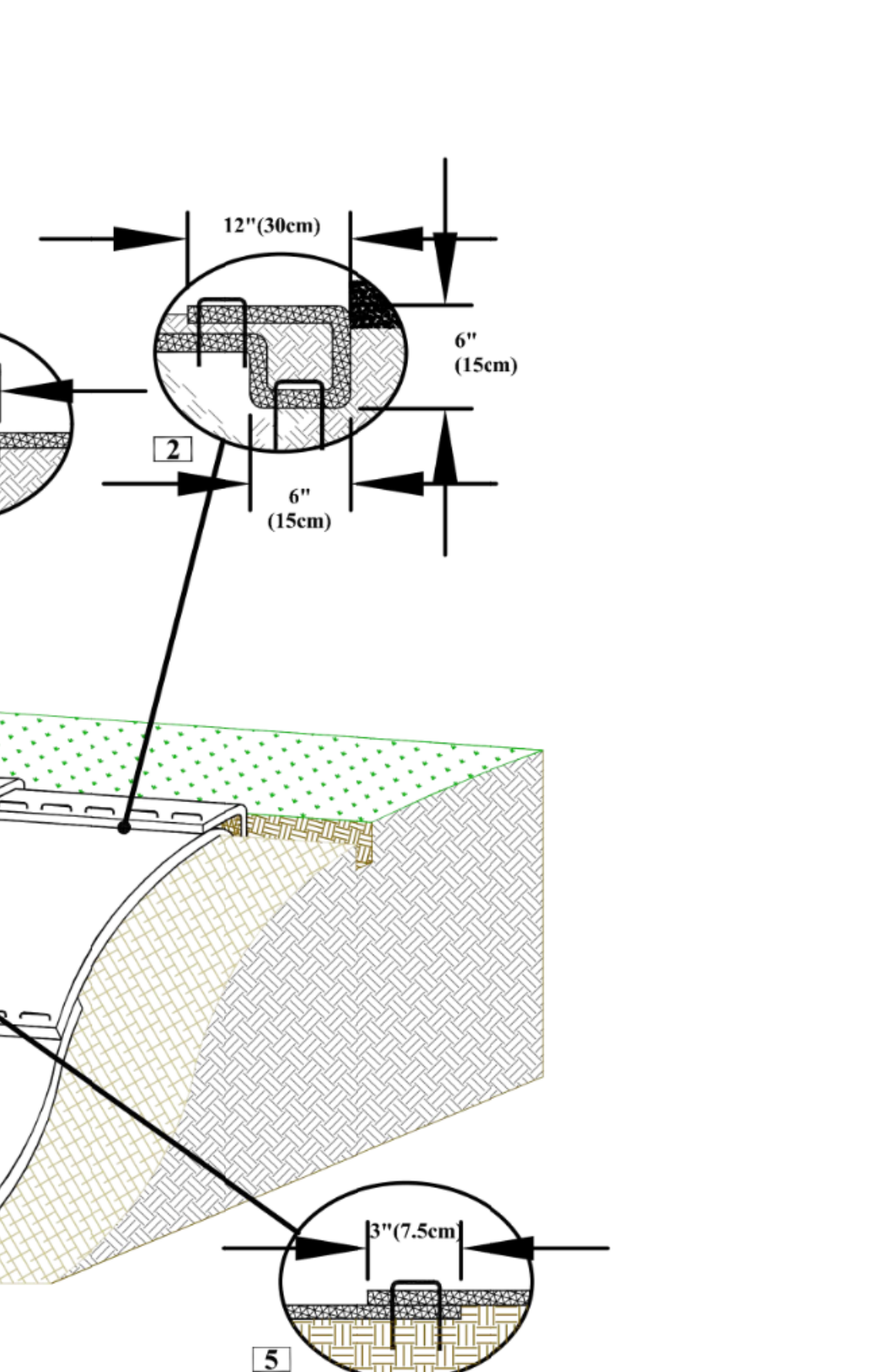
EROSION CONTROL BLANKET
DRAWING NOT TO SCALE

- EROSION CONTROL BLANKET INSTALLATION NOTES:**
- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPs), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPs IN A 6" (15CM) DEEP X 6" (15CM) WIDE TRENCH WITH APPROXIMATELY 12" (30CM) OF RECPs EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECPs WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL AND FOLD THE REMAINING 12" (30CM) PORTION OF RECPs BACK OVER THE SEED AND COMPACTED SOIL. SECURE RECPs OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30CM) APART ACROSS THE WIDTH OF THE RECPs.
 - ROLL THE RECPs (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECPs WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPs MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
 - THE EDGES OF PARALLEL RECPs MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5-12.5CM) OVERLAP DEPENDING ON THE RECPs TYPE.
 - CONSECUTIVE RECPs SPICED DOWN THE SLOPE MUST BE END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30CM) APART ACROSS ENTIRE RECPs WIDTH.

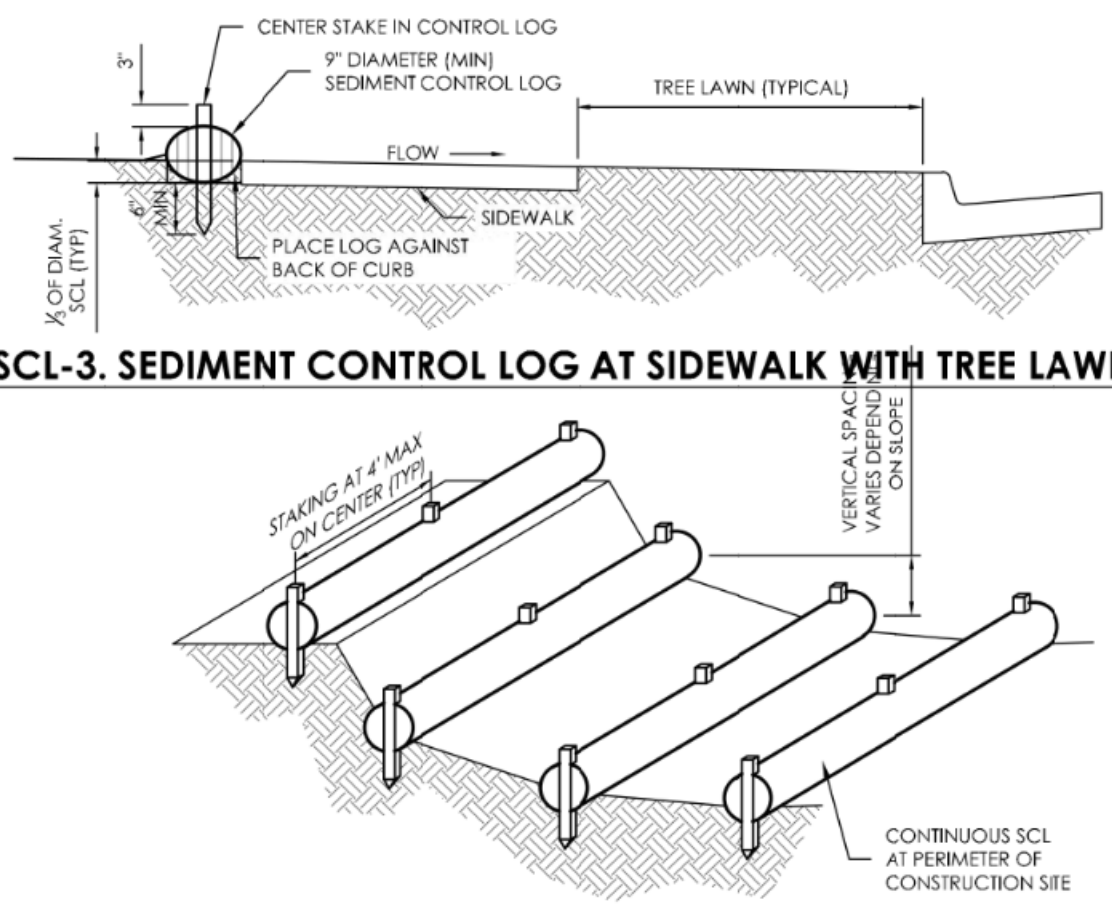


SECTION A SCL-1. SEDIMENT CONTROL LOG

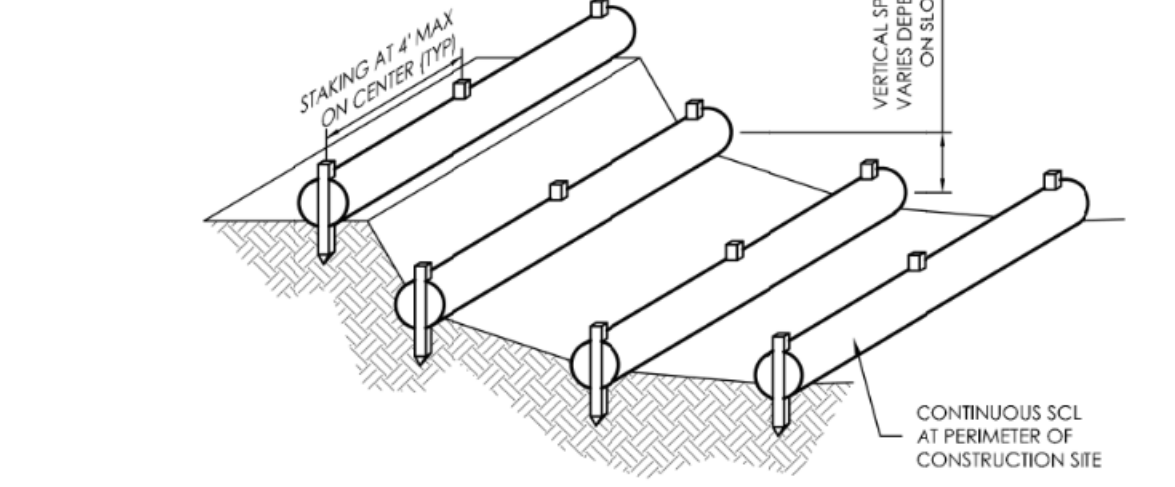
- SEDIMENT CONTROL LOG INSTALLATION NOTES:**
- SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.
 - SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UPGRADIENT LAND-DISTURBING ACTIVITIES.
 - SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR OR COCONUT FIBER, AND SHALL BE FREE OF ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
 - SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES. HOWEVER, THEY SHOULD NOT BE USED IN PERENNIAL STREAMS OR HIGH VELOCITY DRAINAGE WAYS.
 - IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 1/3 OF THE DIAMETER OF THE LOG. IF TRENCHING TO THIS DEPTH IS NOT FEASIBLE AND/OR DESIRABLE (SHORT TERM INSTALLATION WITH DESIRE NOT TO DAMAGE LANDSCAPE) A LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST STAKING.
 - THE UPHILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL THAT IS FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED INTO THE SHAPE OF A RIGHT TRIANGLE USING A SHOVEL OR WEDGED LAWN ROLLER.
 - FOLLOW MANUFACTURERS' GUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS DO NOT SPECIFY SPACING, STAKES SHALL BE PLACED ON 4' CENTERS AND DIVIDED A MINIMUM OF 6" INTO THE GROUND. 3" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. STAKES THAT ARE BROKEN PRIOR TO INSTALLATION SHALL BE REPLACED.



SCL-2. SEDIMENT CONTROL LOG AT BACK OF CURB

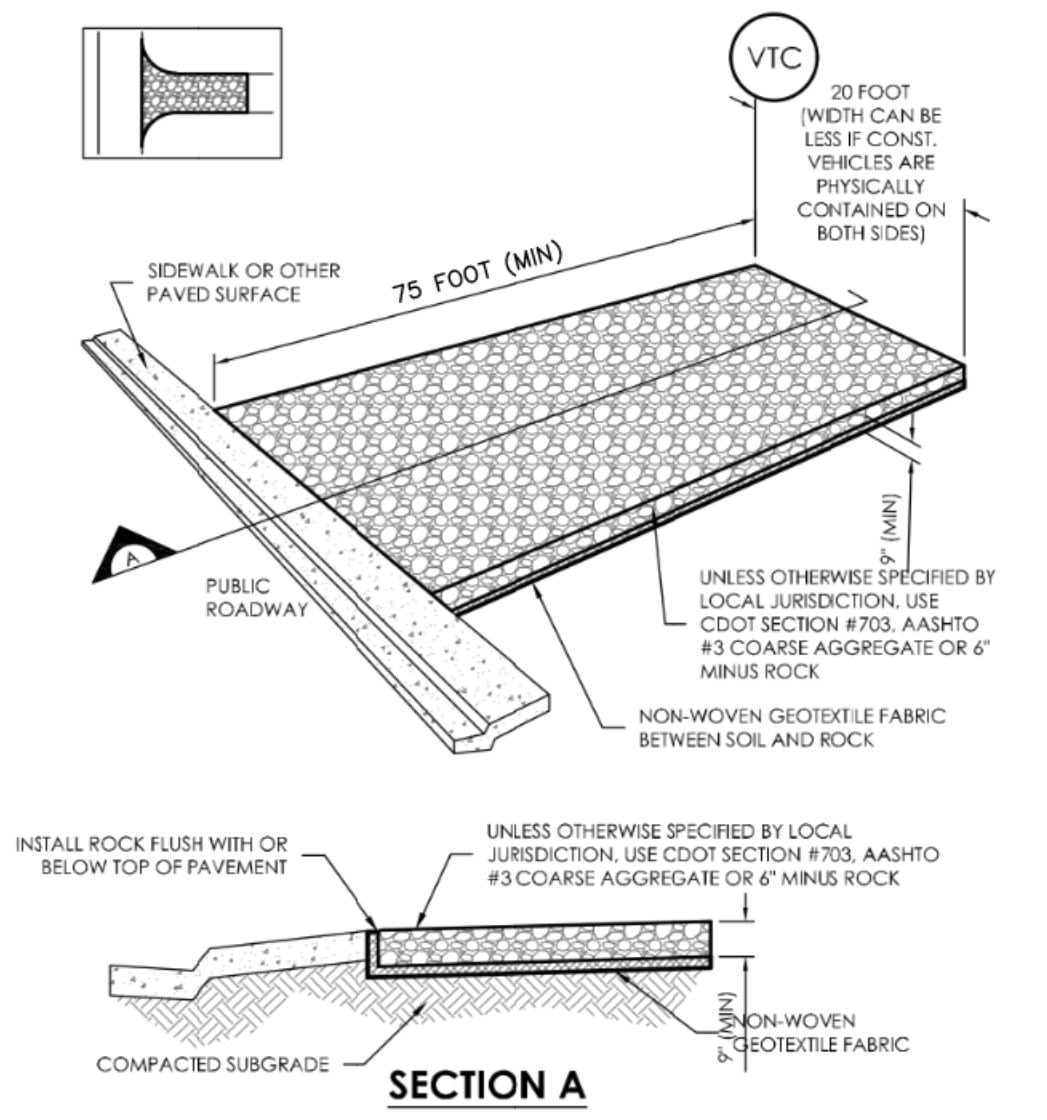


SCL-3. SEDIMENT CONTROL LOG AT SIDEWALK WITH TREE LAWN



SCL-4. SEDIMENT CONTROL LOGS TO CONTROL SLOPE LENGTH

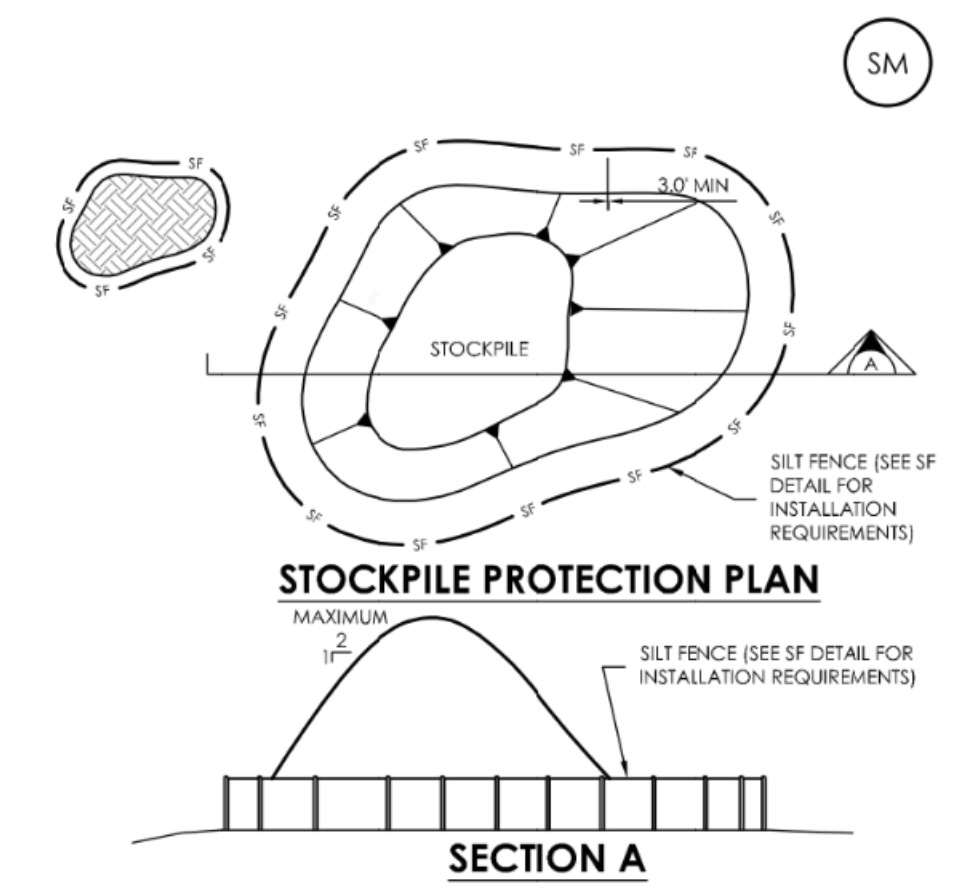
- SEDIMENT CONTROL LOG MAINTENANCE NOTES:**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOG SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/3 OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
 - SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION. IF DISTURBED AREAS EXIST AFTER REMOVAL, THEY SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.



SECTION A STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES

- STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES:**
- SEE PLAN VIEW FOR:
 - LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S)
 - TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM)
 - CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
 - A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
 - STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
 - A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
 - UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

- STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES:**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
 - SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.



SECTION A STOCKPILE PROTECTION PLAN

SP-1. STOCKPILE PROTECTION

- STOCKPILE PROTECTION INSTALLATION NOTES:**
- SEE PLAN VIEW FOR:
 - LOCATION OF STOCKPILE
 - TYPE OF STOCKPILE PROTECTION
 - INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
 - STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
 - FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

- STOCKPILE PROTECTION MAINTENANCE NOTES:**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY.
 - STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.

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EROSION CONTROL DETAILS 1

SHEET NAME
PROJECT STATUS
PERMIT

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SHEET NO:
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of 07

Design and Installation

Prior to mulching, surface-roughen areas by rolling with a crimping or punching type roller or by track walking.

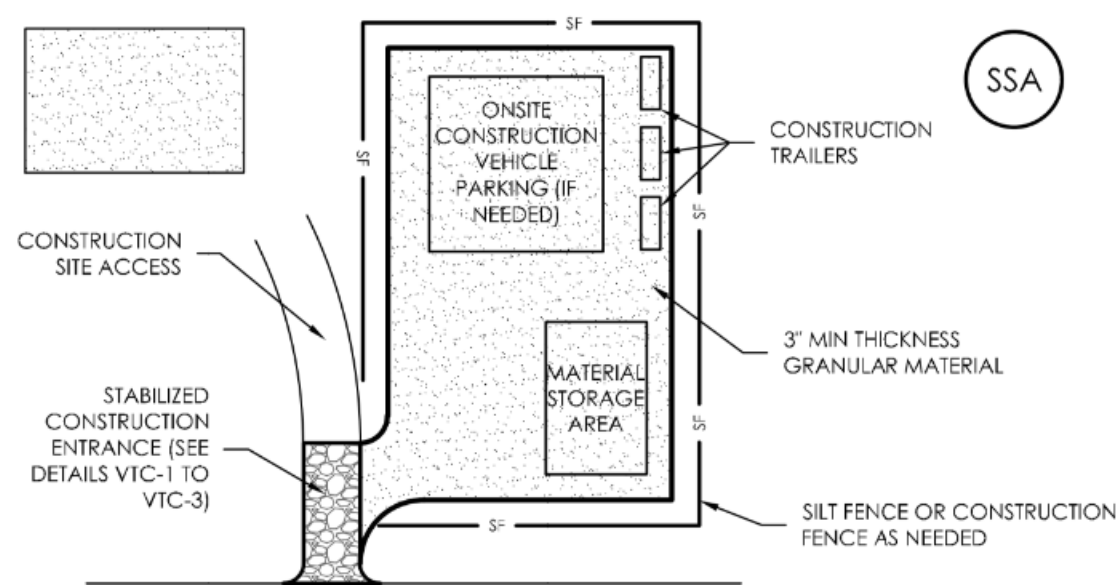
A variety of mulches can be used effectively at construction sites. Consider the following:

Table with 2 columns: Functions (Erosion Control, Sediment Control, Site/Material Management) and Mulch (Yes, Moderate, No).

- Clean, weed-free and seed-free cereal grain straw should be applied evenly at a rate of 2 tons per acre and must be tacked or fastened by a method suitable for the condition of the site.
- Grass hay may be used in place of straw; however, because hay is comprised of the entire plant including seed...
- On small areas sheltered from the wind and heavy runoff, spraying a tackifier on the mulch is satisfactory for holding it in place.

Maintenance and Removal

After mulching, the bare ground surface should not be more than 10 percent exposed. Reapply mulch, as needed, to cover bare areas.



SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

- SEE PLAN VIEW FOR: --LOCATION(S) OF STAGING AREA(S); --CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
- STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.

STABILIZED CONSTRUCTION ENTRANCE EXIT MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

MU

Temporary and Permanent Seeding (TS/PS) EC-2

Seeding dates for the highest success probability of perennial species along the Front Range are generally in the spring from April through early May and in the fall after the first of September until the ground freezes.

Table TS/PS-1. Minimum Drill Seeding Rates for Various Temporary Annual Grasses

Table with 4 columns: Species (Common name), Growth Season, Pounds of Pure Live Seed (PLS) acre, and Planting Depth (inches).

Successful seeding of annual grass resulting in adequate plant growth will usually produce enough dead-plant residue to provide protection from wind and water erosion for an additional year.

PS

EC-2 Temporary and Permanent Seeding (TS/PS)

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses

Table with 6 columns: Common Name, Botanical Name, Growth Season, Growth Form, Seeds/Pound, and Pounds of PLS/acre.

Temporary and Permanent Seeding (TS/PS) EC-2

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses (cont.)

Continuation of Table TS/PS-2 with 6 columns: Common Name, Botanical Name, Growth Season, Growth Form, Seeds/Pound, and Pounds of PLS/acre.

All of the above seeding rates and rates are based on drill seeding followed by crimped straw mulch. These rates should be doubled if seed is broadcast and should be increased by 50 percent if the seeding is done using a Brillion Drill or is applied through hydraulic seeding.

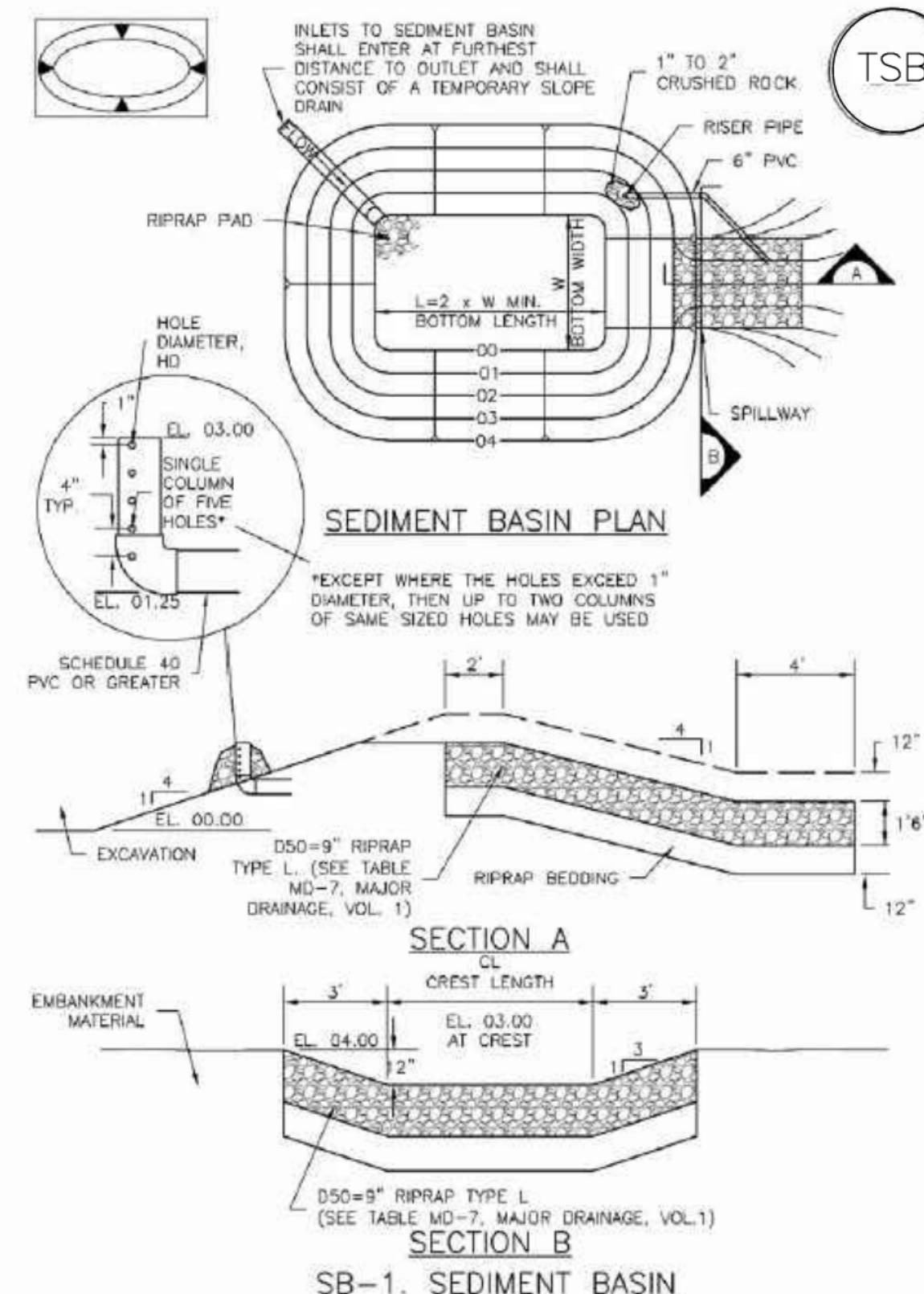


TABLE SB-1. SIZING INFORMATION FOR STANDARD SEDIMENT BASIN. Table with 4 columns: Upstream Drainage Area (ac), Basin Bottom Width (ft), Spillway Crest Length (ft), and Hole Diameter (in).

SEDIMENT BASIN INSTALLATION NOTES

- SEE PLAN VIEW FOR: --LOCATION OF SEDIMENT BASIN; --TYPE OF BASIN (STANDARD BASIN OR NONSTANDARD BASIN); --FOR STANDARD BASIN, BOTTOM WIDTH W, CREST LENGTH CL AND HOLE DIAMETER, HD; --FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT H, NUMBER OF COLUMNS N, HOLE DIAMETER HD AND PIPE DIAMETER D.

SEDIMENT BASIN MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USFCO STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

ROCKY MOUNTAIN GROUP ENGINEERS ARCHITECTS

COLORADO LICENSED PROFESSIONAL ENGINEER 53921

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EROSION CONTROL DETAILS 2 PERMIT

DATE 12/02/2020 # REVISION DATE