# ACADEMY VILLAGE FILING NO. 3

LOT 4, "ACADEMY VILLAGE FILING NO. 2", BEING A PORTION OF

THE SOUTHEAST QUARTER OF SECTION 1, TOWNSHIP 12 SOUTH, RANGE 67 WEST OF THE 6TH P.M.,

# **COUNTY OF EL PASO, STATE OF COLORADO**

SITE DEVELOPMENT PLAN

### **GRADING AND EROSION CONTROL NOTES**

- 1. CONSTRUCTION MAY NOT COMMENCE UNTIL A CONSTRUCTION PERMIT IS OBTAINED FROM PLANNING AND COMMUNITY DEVELOPMENT AND A PRECONSTRUCTION CONFERENCE IS HELD WITH PLANNING AND COMMUNITY DEVELOPMENT
- 2. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON—SITE OR OFF SITE WATERS, INCLUDING WETLANDS.
- 3. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- 4. A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED STORMWATER MANAGER, 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, THESWMP 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 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 LARFLS
- 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
- 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 HAS BEEN PREPARED BY \_\_\_\_\_ AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- 27. AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR
  - APPLICATION MATERIALS CONTACT:

    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

# SITE SITE NORMON REPORT NORMON RE

VICINITY MAP
SCALE: 1"=500"

### SHEET INDEX

COVER SHEET
GRADING & EROSION CONTROL PLAN
GRADING AND EROSION CONTROL DETAILS
UTILITY SERVICE PLAN

### **AGENCIES**

TELEPHONE COMPANY:

OWNER/DEVELOPER:

RON COVINGTON HOMES
13725 STRUTHERS ROAD, SUITE 200
COLORADO SPRINGS, CO 80920
RON COVINGTON, 719-491-1220

CIVIL ENGINEER:

JR ENGINEERING, LLC
3730 SINTON ROAD, SUITE 219

MARK HEINE, PE (719) 593-2593

ENGINEERING DIVISION:

CITY OF COLORADO SPRINGS
30 S. NEVADA AVE, STE. 401
COLORADO SPRINGS, COLORADO 80903
PATRICK MORRIS, PE (719) 385-5075

TRAFFIC ENGINEERING:

CITY OF COLORADO SPRINGS

30 S. NEVADA AVENUE COLORADO SPRINGS, COLORADO 80903 KATHLEEN KRAGER PE, PTOE (719) 385—7628

COLORADO SPRINGS, COLORADO 80907

DEVELOPMENT SERVICES:

COLORADO SPRINGS UTILITIES
WATER AND WASTEWATER RESOURCES:
1521 HANCOCK EXPRESSWAY
COLORADO SPRINGS, COLORADO 80947
AL JUVERA (719) 668-8769

GAS DEPARTMENT:

COLORADO SPRINGS UTILITIES

1521 HANCOCK EXPRESSWAY

COLORADO SPRINGS, COLORADO 80947

TONY COLVIN (719) 668-5768

ELECTRIC DEPARTMENT:

COLORADO SPRINGS UTILITIES

1521 HANCOCK EXPRESSWAY

COLORADO SPRINGS, COLORADO 80947

ROB ESTES (719) 668-5904

CENTURY LINK

(LOCATORS) (719) 597-8418 A.T.& T. (LOCATORS) (719) 635-3674

FIRE DEPARTMENT:

DONALD WESCOTT FIRE PROTECTION
DISTRICT
215415 GLENEAGLE DRIVE

WATER AND SANITARY

DONALA WATER & SANITATION DISTRICT

15850 HOLNEINE DRIVE COLORADO SPRINGS, CO 80921 ROBERT HULL JR. (719) 488-3603

COLORADO SPRINGS, CO 80921

Provide

PRELIMINARY
NOT FOR
CONSTRUCTION

ACADEMY VILLAGE FILING NO. 3 SITE DEVELOPMENT PLAN PROJECT NO: XXX XX ##-#### UNTIL SUCH TIME AS
THESE DRAWINGS ARE
APPROVED BY THE
APPROPRIATE REVIEWING
AGENCIES, JR ENGINEERING
APPROVES THEIR USE
ONLY FOR THE PURPOSES
DESIGNATED BY WRITTEN
AUTHORIZATION.

RON COVINGTON HOMES
725 STRUTHERS ROAD, SUITE 200
COLORADO SPRINGS, CO 80920
RON COVINGTON
719-491-1220

\*R ENGINEERING

Westrian Company

40–9393 • Colorado Springs 719–593–2593

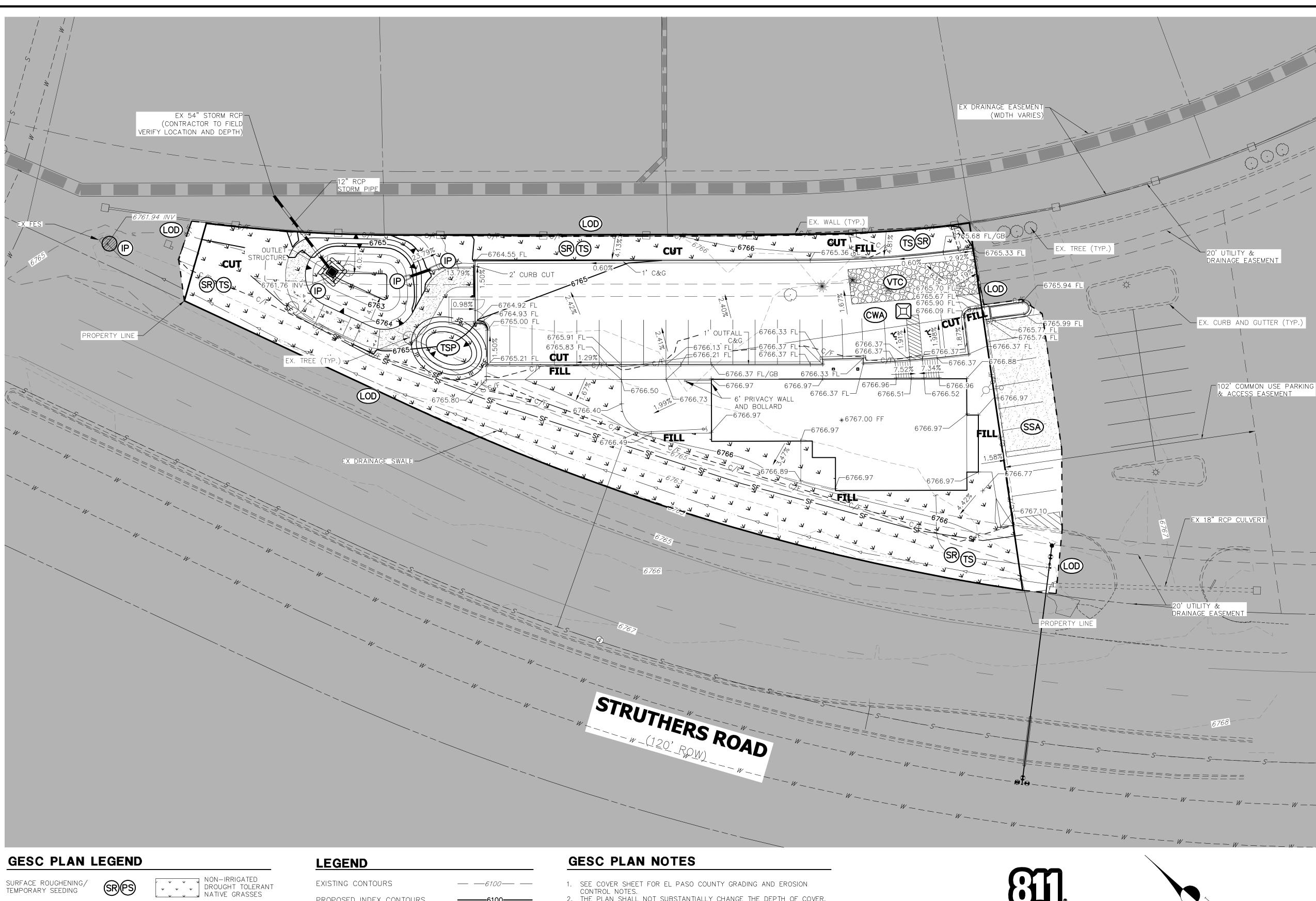
491–9888 • www.jrengineering.com



ACADEMY VILLAGE FILING NO. 3H-SCALE<br/>V-SCALE<br/>DATE1"=500'<br/>N/ANo. RevisionCOVER SHEETDATE<br/>DRAWN BY8/25/17AJHCHECKED BYAJHAJH

SHEET 1 OF 4

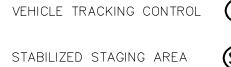
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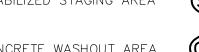


SURFACE ROUGHENING/ TEMPORARY SEEDING SILT FENCE

















EXISTING CONTOURS PROPOSED INDEX CONTOURS PROPOSED INTERMEDIATE CONTOURS -PROPOSED STORM SEWER PROPOSED INLET FINISHED GRADE ELEVATION XX.XXLOW POINT ELEVATION XX.XX LP HIGH POINT ELEVATION XX.XX HP RIGHT OF WAY ELEVATION XX.XX ROW GRADE BREAK ELEVATION XX.XX GB FLOW LINE ELEVATION XX.XX FL PROPOSED RIDGELINE LIMITS OF DISTURBANCE

EROSION CONTROL BLANKET

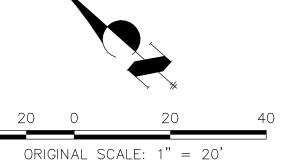
CUT-FILL LIMITS

1. SEE COVER SHEET FOR EL PASO COUNTY GRADING AND EROSION CONTROL NOTES. 2. THE PLAN SHALL NOT SUBSTANTIALLY CHANGE THE DEPTH OF COVER, OR ACCESS TO UTILITY FACILITIES. ADDITIONALLY, THE PLAN SHALL NOT INCREASE OR DIVERT WATER TOWARDS UTILITY FACILITIES. ANY CHANGES TO UTILITY FACILITIES TO ACCOMMODATE THE PLAN, MUST BE DISCUSSED AND AGREED TO BY THE AFFECTED UTILITY PRIOR TO IMPLEMENTING THE PLAN. THE RESULTING COST TO RELOCATE OR PROTECT UTILITIES, OR PROVIDE INTERIM ACCESS IS AT THE EXPENSE OF THE PLAN APPLICANT.

	LAND DISTURBA	ANCE
	VOLUME (CY)	AREA (AC)
CUT	315	0.34
FILL	222	0.22
NET	93 (CUT)	N/A



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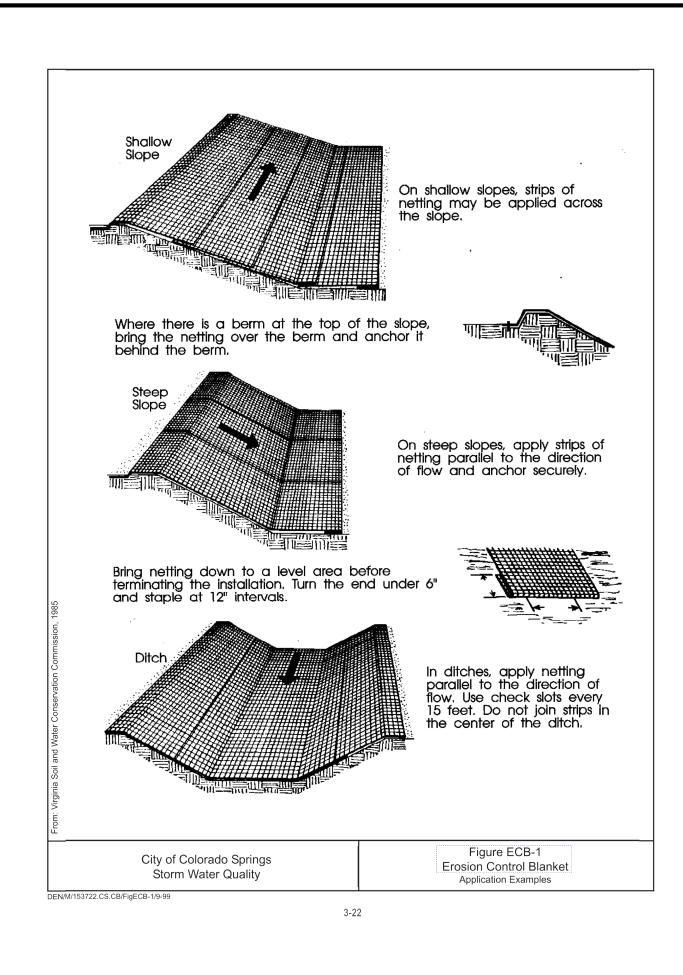


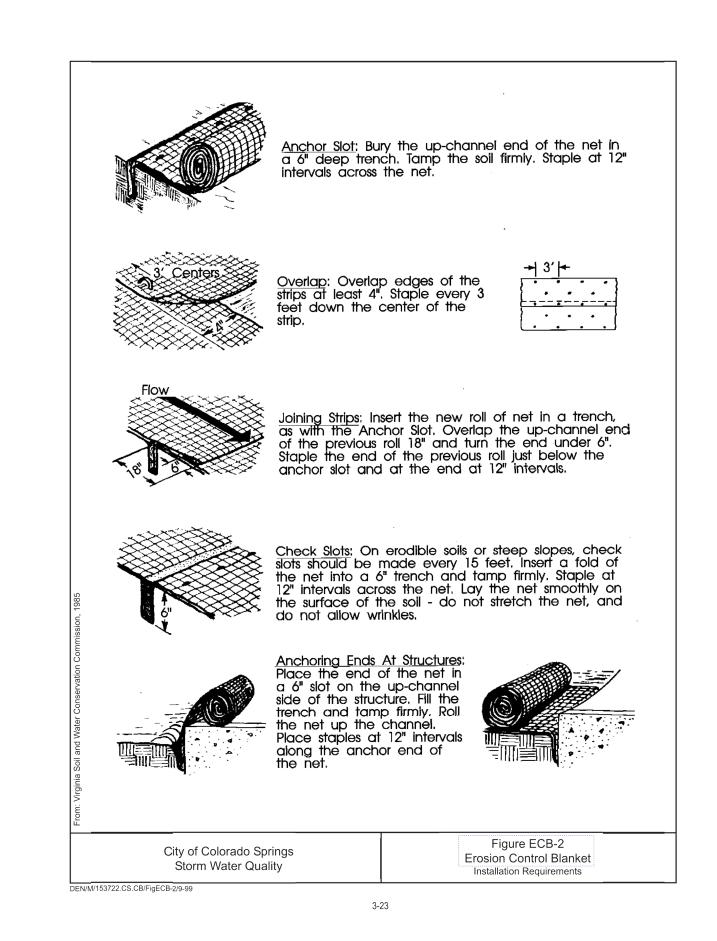


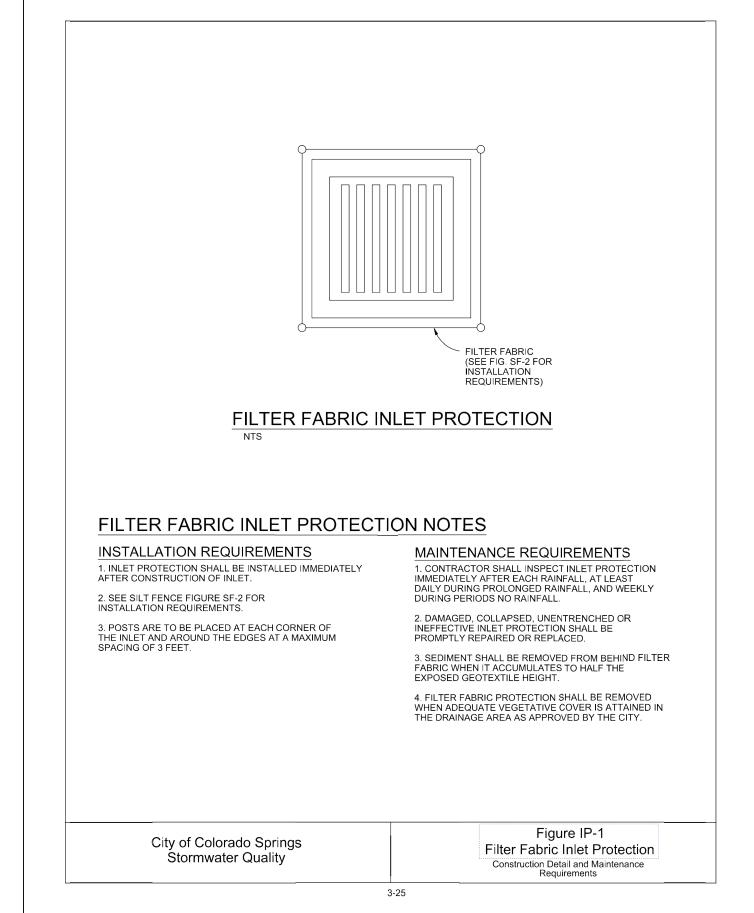
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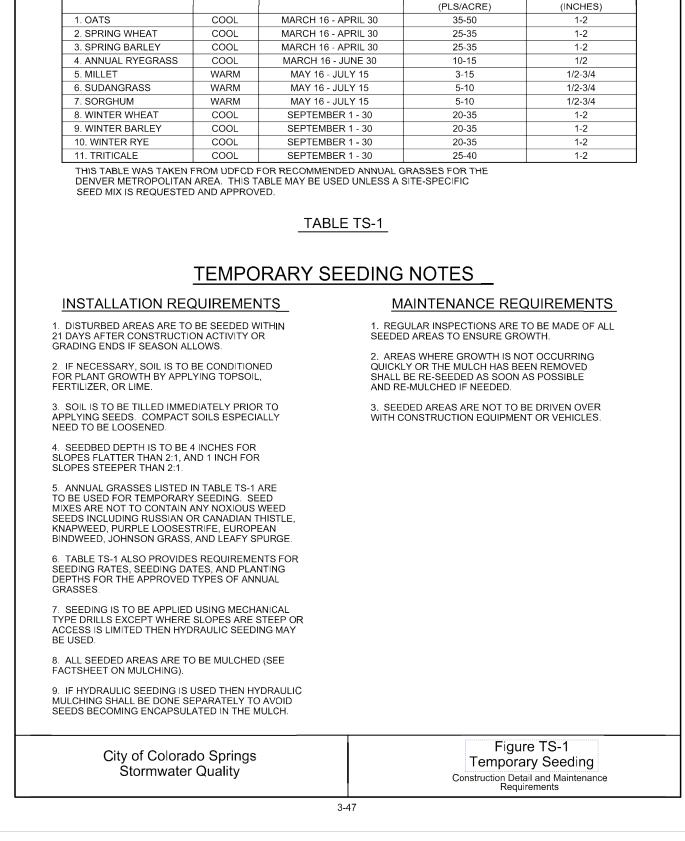
SHEET 2 OF 4

JOB NO. **25123.00** 









**RECOMMENDED ANNUAL GRASSES** 

DATE

SPECIES

(COMMON NAME)

SEASON

POUNDS OF PURE

LIVE SEED (PLS)

PLANTING

DEPTH

## **MULCHING NOTES**

INSTALLATION REQUIREMENTS 1. ALL DISTURBED AREAS MUST BE MULCHED WITHIN 21 DAYS AFTER FINAL GRADE AND SEEDED AREAS ARE TO BE MULCHED WITHIN 24 HOURS AFTER SEEDING.

2. MATERIAL USED FOR MULCH CAN BE CERTIFIED CLEAN, WEED- AND SEED-FREE LONG STEMMED FIELD OR MARSH HAY, OR STRAW OF OATS, BARLEY, WHEAT, RYE, OR TRITICALE CERTIFIED BY THE COLORADO DEPARTMENT OF AGRICULTURE WEED FREE FORAGE CERTIFICATION PROGRAM. 3. HYDRAULIC MULCHING MATERIAL SHALL CONSIST OF VIRGIN WOOD FIBER MANUFACTURED FROM CLEAN WHOLE WOOD CHIPS. WOOD CHIPS CANNOT CONTAIN ANY GROWTH OR GERMINATION INHIBITORS OR BE PRODUCED FROM RECYCLED MATERIAL.

GRAVEL CAN ALSO BE USED. 4. MULCH IS TO BE APPLIED EVENLY AT A RATE OF 2 TONS

5. MULCH IS TO BE ANCHORED EITHER BY CRIMPING (TUCKING MULCH FIBERS 4 INCHES INTO THE SOIL), USING NETTING (USED ON SMALL AREAS WITH STEEP SLOPES), OR WITH A

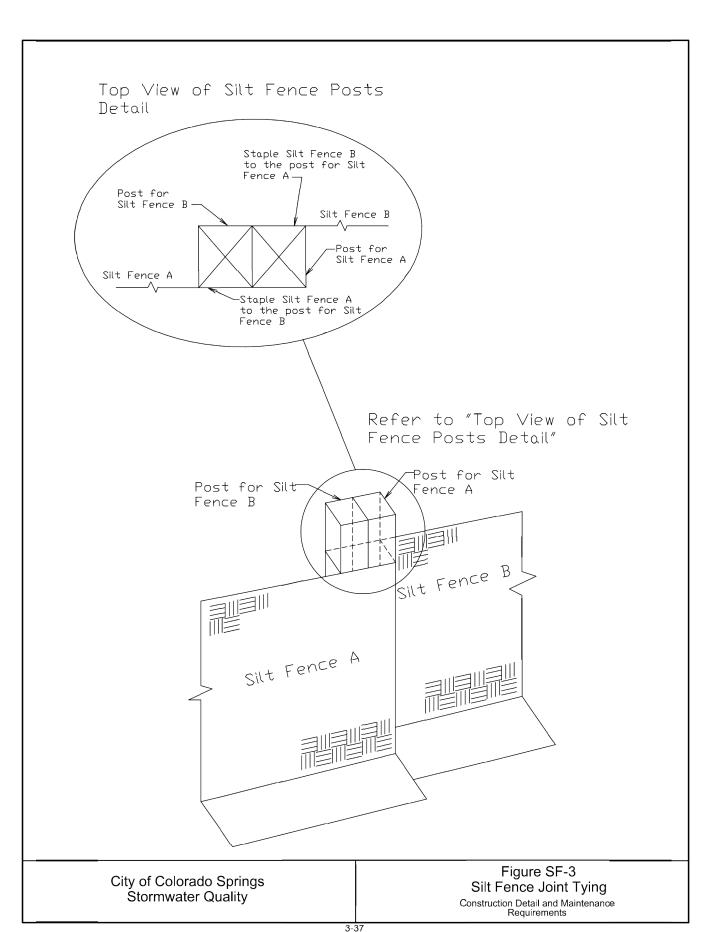
6. HYDRAULIC MULCHING AND TACKIFIERS ARE NOT TO BE USED IN THE PRESENCE OF FREE SURFACE WATER. MAINTENANCE REQUIREMENTS 1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL MULCHED

2. MULCH IS TO BE REPLACED IMMEDIATELY IN THOSE AREAS

City of Colorado Springs Stormwater Quality

Figure MU-1 Mulching Construction Detail and Maintenance Requirements

ANCHORED IN TRENCH AND ATTACHED FIRMLY TO POST POST (2" X 2" NOMINAL) ~ SILT FENCE FABRIC ANCHORED IN TRENCH AND FIRMLY ATTACHED SILT FENCE SILT FENCE NOTES INSTALLATION REQUIREMENTS . SILT FENCES SHALL BE INSTALLED PRIOR TO ANY LAND 6. ALONG THE TOE OF FILLS, INSTALL THE SILT FENCE ALONG A LEVEL CONTOUR AND PROVIDE DISTURBING ACTIVITIES. AN AREA BEHIND THE FENCE FOR RUNOFF TO POND 2. WHEN JOINTS ARE NECESSARY, SILT FENCE GEOTEXTILE AND SEDIMENT TO SETTLE. A MINIMUM DISTANCE OF SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST 5 FEET FROM THE TOE OF THE FILL IS RECOMMENDED. AND SECURELY SEALED. 7. THE HEIGHT OF THE SILT FENCE FROM THE GROUND 3. METAL POSTS SHALL BE "STUDDED TEE" OR "U" TYPE SURFACE SHALL BE MINIMUM OF 24 INCHES AND SHALL WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. NOT EXCEED 36 INCHES; HIGHER FENCES MAY INPOUND WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE SECTION DIMENSION OF 2 INCHES. OF THE STRUCTURE. MAINTENANCE REQUIREMENTS 4. THE FILTER MATERIAL SHALL BE FASTENED SECURELY 1. CONTRACTOR SHALL INSPECT SILT FENCES TO METAL OR WOOD POSTS USING WIRE TIES, OR TO WOOD IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND POSTS WITH 3/4" LONG #9 HEAVY-DUTY STAPLES. THE SILT FENCE GEOTEXTILE SHALL NOT BE STAPLED WEEKLY DURING PERIODS OF NO RAINFALL. DAMAGED, COLLAPSED, UNENTRENCHED O INEFFECTIVE SILT FENCES SHALL BE PROMPTLY 5. WHILE NOT REQUIRED, WIRE MESH FENCE MAY BE USED REPAIRED OR REPLACED. TO SUPPORT THE GEOTEXTILE. WIRE FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE 2. SEDIMENT SHALL BE REMOVED FROM BEHIND POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 3/4" T FENCE WHEN IT ACCUMULATES TO HALF LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND THE EXPOSED GEOTEXTILE HEIGHT. INTO THE TRENCH A MINIMUM OF 6" AND SHALL NOT EXTEND 3. SILT FENCES SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED MORE THAN 3' ABOVE THE ORIGINAL GROUND SURFACE. AS APPROVED BY THE CITY. Figure SF-2 City of Colorado Springs Silt Fence Stormwater Quality Construction Detail and Maintenance Requirements



### SURFACE ROUGHENING NOTES

### **APPLICATION TECHNIQUES**

1. STAIR STEP GRADING – USED ON SLOPES WITH GRADIENTS BETWEEN 3:1 AND 2:1 AND FOR SOIL CONTAINING A LARGE AMOUNT OF SMALL ROCKS. STAIRS ARE TO BE WIDE ENOUGH TO WORK WITH STANDARD EARTH MOVING EQUIPMENT.

2. GROOVE CUTTING - USED ON SLOPES WITH GRADIENTS BETWEEN 3:1 AND 2:1. GROOVES ARE TO BE AT LEAST 3 INCHES DEEP AND NO MORE THAN 15 INCHES APART.

3. TRACKING – USED ON SOILS WITH HIGHER SAND CONTENT DUE TO COMPACTION BY HEAVY MACHINERY.

MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL SURFACE ROUGHENED AREAS.

2. SURFACE ROUGHENING IS TO BE REPEATED AS OFTEN AS

3. VEHICLES OR EQUIPMENT IS NOT TO BE DRIVEN OVER AREAS THAT HAVE BEEN ROUGHENED.

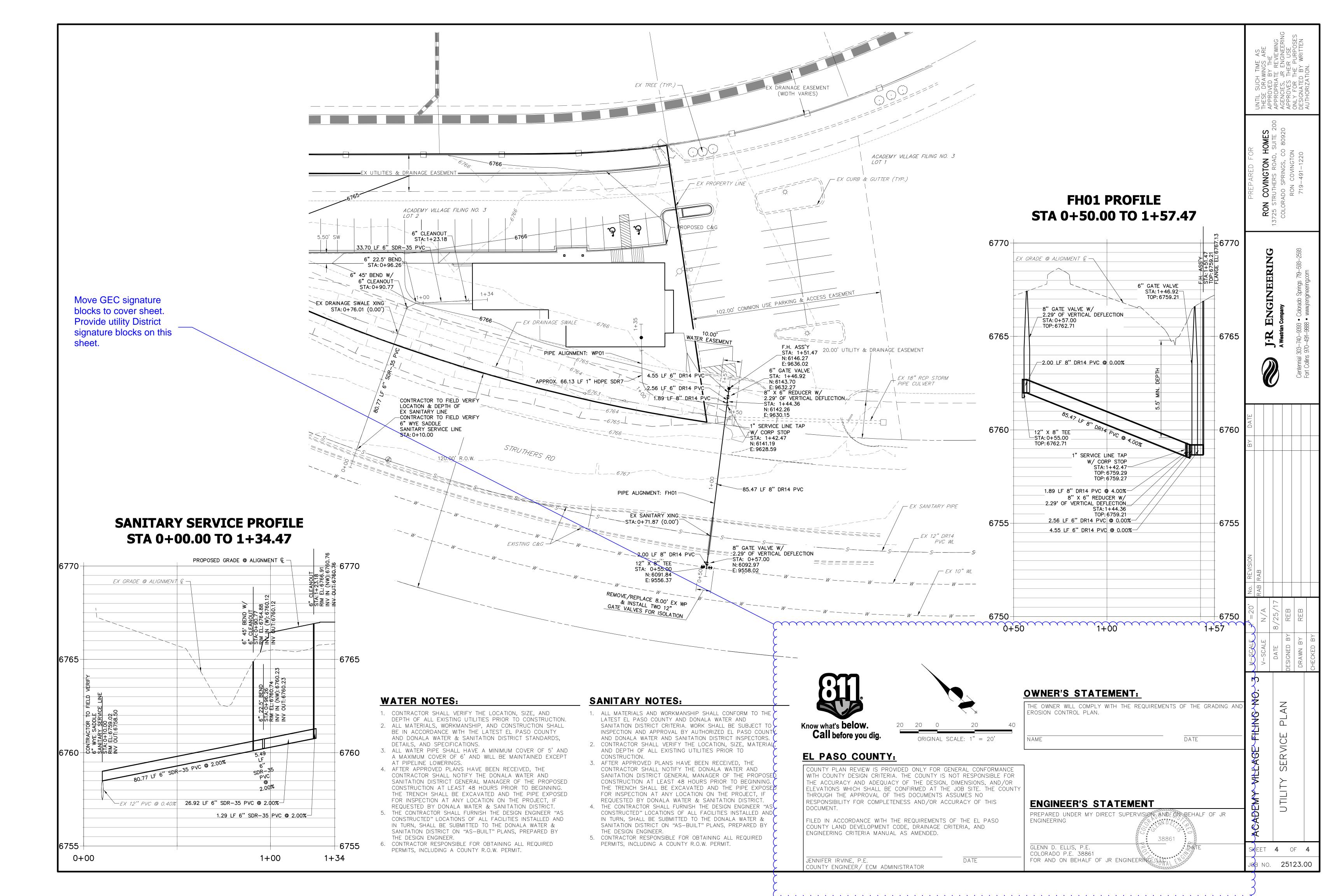
4. As surface roughening is only a temporary CONTROL, ADDITIONAL TREATMENTS MAY BE NECESSARY TO MAINTAIN THE SOIL SURFACE IN A ROUGHENED CONDITION.

STORMWATER QUALITY BMP MANUAL

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SHEET 3 OF 4 JOB NO. **25123.00** 

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dsdrice (3)



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