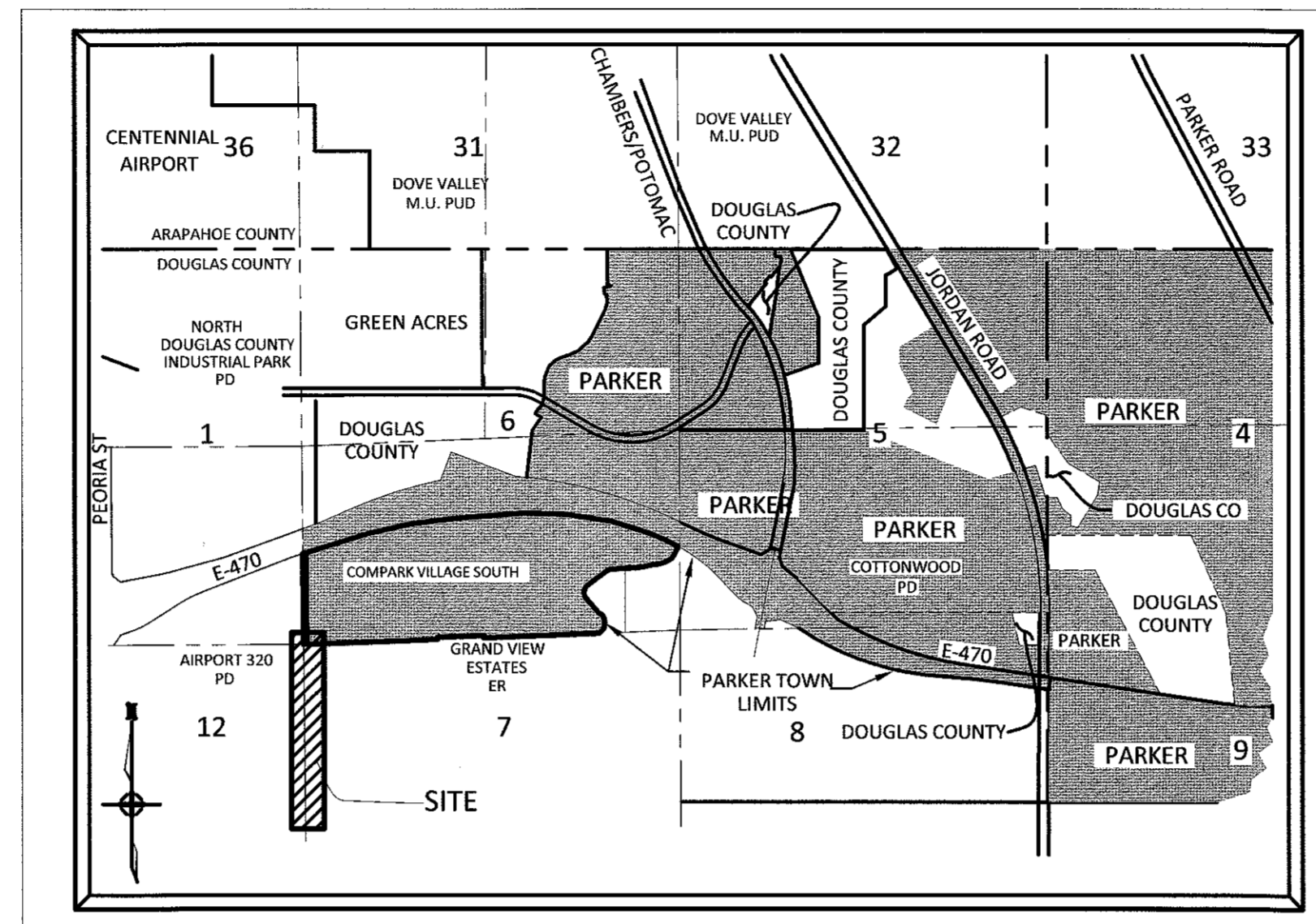


GRADING, EROSION, AND SEDIMENT CONTROL PLANS FOR COMPARK VILLAGE SOUTH FILING NO. 1 FIRST STREET IMPROVEMENTS COUNTY OF DOUGLAS, STATE OF COLORADO



VICINITY MAP
N.T.S.

OWNER/DEVELOPER

470 COMPARK
290 FILLMORE ST #1A
DENVER, CO 80206

AGENCY LIST

MANHARD LTD	(303) 708-0500
DOUGLAS COUNTY ENGINEERING	(303) 660-7490
DENVER UTILITY INFORMATION	(303) 534-6700
PUBLIC SERVICE COMPANY OF COLORADO	(303) 571-2565
IREA	(303) 688-3100
XCEL ENERGY	(303) 329-1618
SOUTH METRO FIRE	(720) 488-7200
STONEGATE VILLAGE METRO DISTRICT	(303) 858-9909
COMCAST	(720) 490-3867
CENTURY LINK	(303) 792-6069
INTERMOUNTAIN RURAL ELECTRIC ASSOCIATION	(303) 688-3100
UTILITY NOTIFICATION COMPANY OF COLORADO	1-(303) 922-1987 (811)

KEY CONTACTS

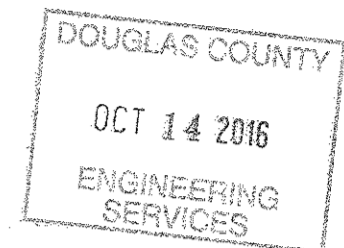
MIKE VICKERS
470 COMPARK
(303)-881-6292

ENGINEER/SURVEYOR



8008 E. Arapahoe Court, Suite 110, Centennial, CO 80112 ph:303.708.0500 fx:303.708.0400 manhard.com
Civil Engineers • Surveyors • Water Resource Engineers • Water & Wastewater Engineers
Construction Managers • Environmental Scientists • Landscape Architects • Planners

SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	GENERAL NOTES
3	INITIAL GESC PLAN
4	INTERIM GESC PLAN
5	FINAL GESC PLAN
6	FIRST STREET P&P
7	FIRST STREET P&P
8	GESC DETAILS - 1 OF 3
9	GESC DETAILS - 2 OF 3
10	GESC DETAILS - 3 OF 3



BENCHMARKS

SOURCE BENCHMARKS:
DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)

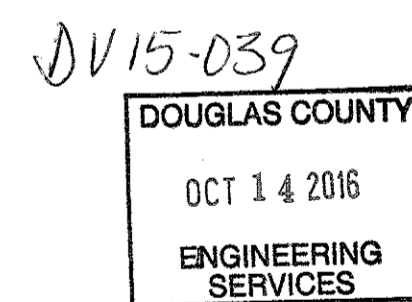
SITE BENCHMARKS:
1. A NO. 5 REBAR WITH 2" ALUMINUM CAP STAMPED "LS 28286, 2001" FOUND AT THE SOUTHWEST CORNER OF SECTION 6, T6S, R66W LOCATED ON THE WEST LINE OF FIRST STREET APPROXIMATELY 1000 FEET NORTH OF ELM AVENUE. ELEVATION = 5845.51
2. A 2.5" IRON PIPE WITH 3.25" ALUMINUM CAP STAMPED "PLS 12405, 1997" FOUND AT THE SOUTHEAST CORNER OF SECTION 6, T6S, R66W LOCATED APPROXIMATELY 960 FEET NORTH OF THE CENTERLINE OF AVENTERRA PARKWAY AND APPROXIMATELY 1050 FEET WEST OF THE CENTERLINE OF CHAMBERS ROAD. ELEVATION = 5808.06

DOUGLAS COUNTY GESC NOTE

THE GRADING, EROSION, AND SEDIMENT CONTROL PLAN INCLUDED HEREIN HAS BEEN PLACED IN THE DOUGLAS COUNTY FILE FOR THIS PROJECT AND APPEARS TO FULFILL APPLICABLE DOUGLAS COUNTY GRADING, EROSION AND SEDIMENT CONTROL CRITERIA, AS AMENDED. ADDITIONAL GRADING, EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED OF THE PERMITTEE(S) DUE TO UNFORSEEN EROSION PROBLEMS OR IF THE SUBMITTED GESC PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS GESC PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE PERMITTEE(S), UNTIL SUCH TIME AS THE GESC PLAN IS PROPERLY COMPLETED, MODIFIED, OR VOIDED.

ENGINEER'S CERTIFICATION:
THE GRADING, EROSION, AND SEDIMENT CONTROL PLAN INCLUDED HEREIN HAS BEEN PREPARED UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH THE REQUIREMENTS OF THE GRADING, EROSION, AND SEDIMENT CONTROL (GESC) CRITERIA MANUAL OF DOUGLAS COUNTY, AS AMENDED.

[Signature]
RICKY J MOORE, P.E. NUMBER 30877
ON BEHALF OF MANHARD CONSULTING



Know what's below.
Call before you dig.

[Signature]
ASSISTANT DIRECTOR OF DEVELOPMENT REVIEW
10/21/16

THESE CONSTRUCTION PLANS HAVE BEEN REVIEWED BY DOUGLAS COUNTY FOR GRADING, EROSION, SEDIMENT CONTROL, STREET AND DRAINAGE IMPROVEMENTS ONLY.

ENGINEERING DIVISION ACCEPTANCE BLOCK

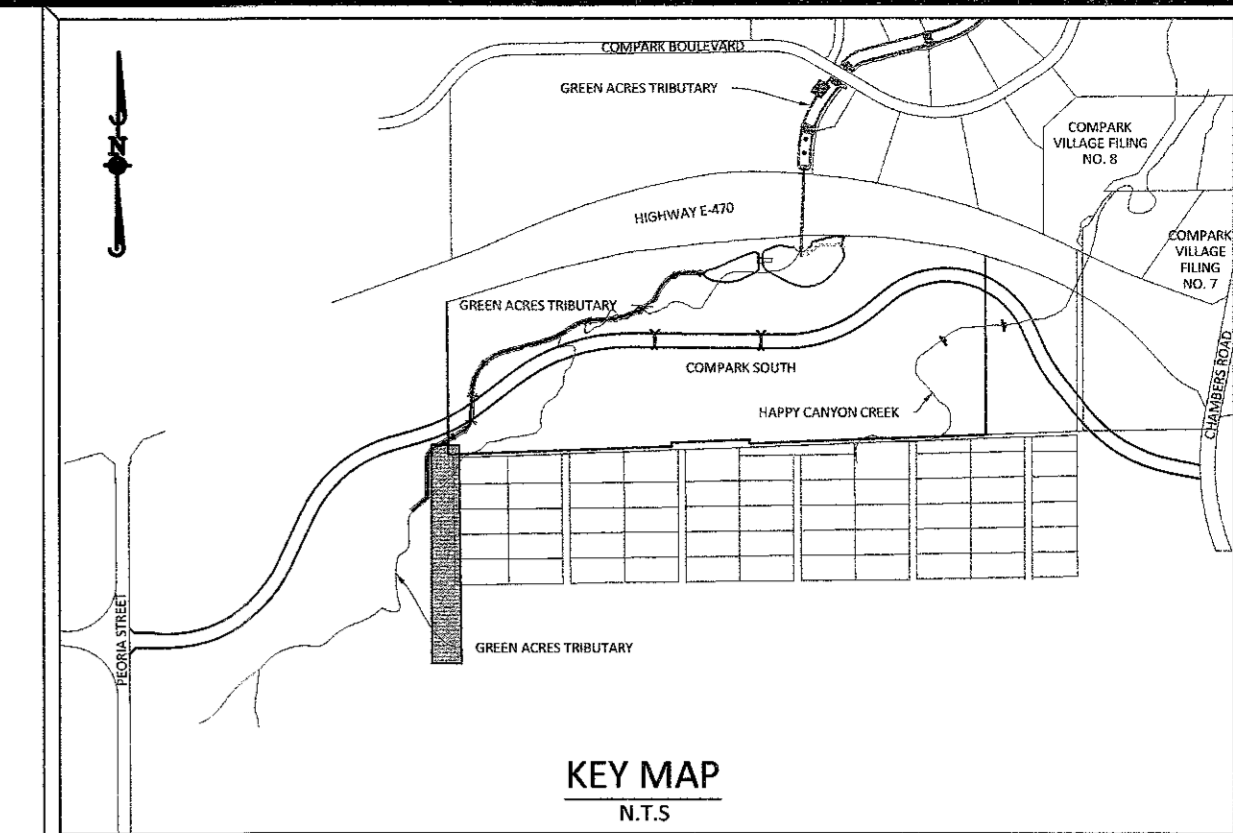
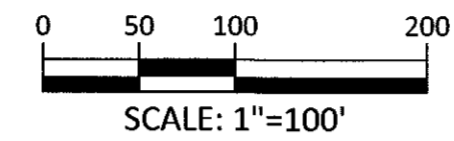
CVS FILING NO. 1 - FIRST STREET IMPROVEMENTS
DOUGLAS COUNTY, COLORADO
COVER SHEET

PROJ. MGR.: RJM
PROJ. ASSOC.: BRB
DRAWN BY:
DATE: 07/2016

1 OF **10**
CLCPKC3.03

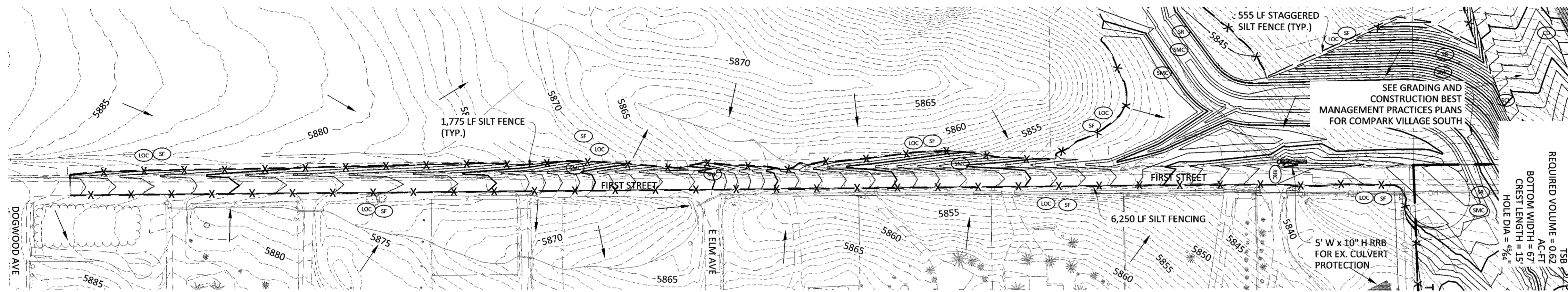
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NOTE: TO REDUCE THE POTENTIAL FOR CLOGGING OF DEBRIS GRATES, NO STRAW MULCH SHALL BE USED WITHIN THE EXCESS URBAN RUNOFF VOLUME OF A DETENTION BASIN. INSTEAD, EROSION CONTROL BLANKET SHALL BE INSTALLED FOR A WIDTH OF AT LEAST 6-FEET ON BOTH SIDES OF THE CONCRETE LOW FLOW CHANNEL OR UP TO A DEPTH OF 1-FOOT IN SOIL RIPRAP OR BENCHED LOW FLOW CHANNELS. ADDITIONALLY, HYDRAULICALLY-APPLIED WOOD FIBER MULCH, STABILIZED FIBER MATRIX, BONDED FIBER MATRIX, OR FLEXIBLE GROWTH MEDIUM SHALL BE USED IN ALL OTHER AREAS WITHIN THE EXCESS URBAN RUNOFF VOLUME OF THE DETENTION BASIN. THE BLANKET AND HYDRAULICALLY-APPLIED MULCH SHALL COMPLY WITH THE MATERIALS AND INSTALLATION REQUIREMENTS FOR EROSION CONTROL BLANKETS AS REQUIRED BY THE TOWN'S CBMP PROGRAM, AND WHERE APPLICABLE, THE PRODUCT MANUFACTURER.



SOURCE BENCHMARKS:

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 SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF
 THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)



- BMP LEGEND**
- FLOW/SLOPE DIRECTION
 - [Symbol] CONCRETE WASHOUT AREA
 - [Symbol] CHECK DAM
 - [Symbol] DIVERSION DITCH
 - [Symbol] EROSION CONTROL BLANKET
 - [Symbol] INLET PROTECTION
 - [Symbol] REINFORCED ROCK BERM
 - [Symbol] RRB FOR CULVERT PROTECTION
 - [Symbol] SEDIMENT BASIN
 - [Symbol] SEDIMENT CONTROL LOG
 - [Symbol] SEEDING, MULCHING & CRIMPING
 - [Symbol] SILT FENCE
 - [Symbol] STABILIZED STAGING AREA
 - [Symbol] SURFACE ROUGHENING
 - [Symbol] VEHICLE TRACKING CONTROL
 - [Symbol] LIMITS OF CONSTRUCTION
 - [Symbol] STOCKPILE AREA
- BMP PHASING LEGEND**
- [Symbol] PROPOSED BMP FOR PHASE
 - [Symbol] EXISTING BMP FOR PHASE
 - [Symbol] REMOVE EXISTING BMP FOR PHASE

NOTES:

1. SEE COVER SHEET OF DOUGLAS COUNTY STANDARD NOTES AND DETAILS (SHEET 8) FOR LEGEND OF BMP NAMES AND SYMBOLS.
2. SHADED BMPs WERE INSTALLED IN INITIAL OR INTERIM GESC DRAWING UNLESS OTHERWISE NOTED, AND UNLESS OTHERWISE INDICATED SHALL BE LEFT IN PLACE UNTIL REVEGETATION ESTABLISHMENT IS APPROVED BY THE COUNTY.
3. ALL INTERIM EROSION AND SEDIMENT CONTROL BMPs, INCLUDING DRILL SEEDING AND CRIMP MULCHING OF DISTURBED AREAS, MUST BE INSTALLED, INSPECTED, AND APPROVED BY THE COUNTY PRIOR TO THE ISSUANCE OF A RIGHT-OF-WAY USE AND CONSTRUCTION PERMIT FOR THE PURPOSE OF PAVING OR INSTALLATION OF CURB AND GUTTER.
4. ANY SLOPES BETWEEN 3:1 AND 4:1 WILL REQUIRE THE USE OF EROSION CONTROL BLANKETS OR MECHANICALLY BONDED FIBER MATRIX.
5. SEE CONSTRUCTION PLANS FOR DETAILS OF PERMANENT DRAINAGE FACILITIES SUCH AS WATER QUALITY FACILITIES, CULVERTS, STORM DRAIN, INLETS, OUTLET PROTECTION, AND ROADWAY IMPROVEMENTS.
6. ACCEPTANCE OF THE POST-CONSTRUCTION PERMANENT BMPs WILL NOT OCCUR UNTIL ALL TRIBUTARIES TO THE POST-CONSTRUCTION PERMANENT BMPs ARE COMPLETE AND FINAL LANDSCAPE HAS BEEN ESTABLISHED.
7. EROSION CONTROL BLANKET SHALL BE USED IN AREAS WHERE 4:1 OR STEEPER SLOPE PREVAILS. COMPOST BLANKET SHALL NOT BE USED IN AREAS WHERE CONCENTRATED FLOW ROUTES OCCUR.
8. THESE MEASURES MAY BE MODIFIED WITH COUNTY INSPECTOR APPROVAL AS SITE CONDITIONS GOVERN. THIS MAY INCLUDE ELIMINATING CERTAIN EROSION CONTROL MEASURES IF THOSE MEASURES BECOME UNNECESSARY, OR ADDING ADDITIONAL EROSION CONTROL MEASURES IF THEY ARE NECESSARY.
9. SEDIMENTATION TRAPS & DIVERSION DITCHES SHALL BE INSTALLED ONCE FINAL GRADES ARE ACHIEVED WITHIN BLOCK AREAS.
10. DURING THE CONSTRUCTION PROCESS SUCH AS UTILITY INSTALLATION AND INDIVIDUAL LOT CONSTRUCTION, DIVERSION DITCHES SHALL BE MAINTAINED TO CONTROL RUNOFF AND SEDIMENT. SEDIMENT TRAPS SHALL BE MOVED UPSTREAM OF CONSTRUCTED LOTS.
11. PERMANENT LANDSCAPING, OR APPROVED EROSION CONTROL MEASURES SHALL BE INSTALLED WITHIN CONSTRUCTED LOTS TO OBTAIN FINAL STABILIZATION.
12. PRIOR TO PLACEMENT OF CONCRETE, A CONCRETE WASHOUT AREA SHALL BE LOCATED ONSITE.
13. DOUGLAS COUNTY RESERVES THE RIGHT TO REQUIRE ADDITIONAL OR DIFFERENT BMP MEASURES AT THE DISCRETION OF THE DOUGLAS COUNTY INSPECTOR TO ADDRESS ANY EROSION AND/OR SEDIMENT ISSUES RESULTING FROM CONSTRUCTION.
14. THESE IMPROVEMENTS ARE TO BE CONSTRUCTED AS A PART OF THE BELFORD/GREEN ACRES TRIBUTARY IMPROVEMENT PROJECT KNOWN AS COMPARK VILLAGE SOUTH FILING 1. SEE PLANS FOR MORE INFORMATION.
 A) CONSTRUCTION ACCESS WILL BE MADE VIA PEORIA STREET. NO ACCESS VIA GRAND VIEW ESTATES.



Know what's below.
 Call before you dig.

Signature: [Signature]
 ASSISTANT DIRECTOR OF DEVELOPMENT REVIEW
 DATE: 10/21/16

THESE CONSTRUCTION PLANS HAVE BEEN REVIEWED BY DOUGLAS COUNTY FOR GRADING, EROSION, SEDIMENT CONTROL, STREET AND DRAINAGE IMPROVEMENTS ONLY.

ENGINEERING DIVISION ACCEPTANCE BLOCK

Manhard CONSULTING LTD.
 CONSULTING ENGINEERS
 1000 E. 1st Ave., Suite 110, Colorado Springs, CO 80901
 Phone: 719.575.1100 Fax: 719.575.1101
 Email: info@manhardconsulting.com
 Construction Managers • Environmental Scientists • Landscape Architects • Planners

CVS FILING NO. 1 - FIRST STREET IMPROVEMENTS
DOUGLAS COUNTY, COLORADO
INITIAL GESC PLAN

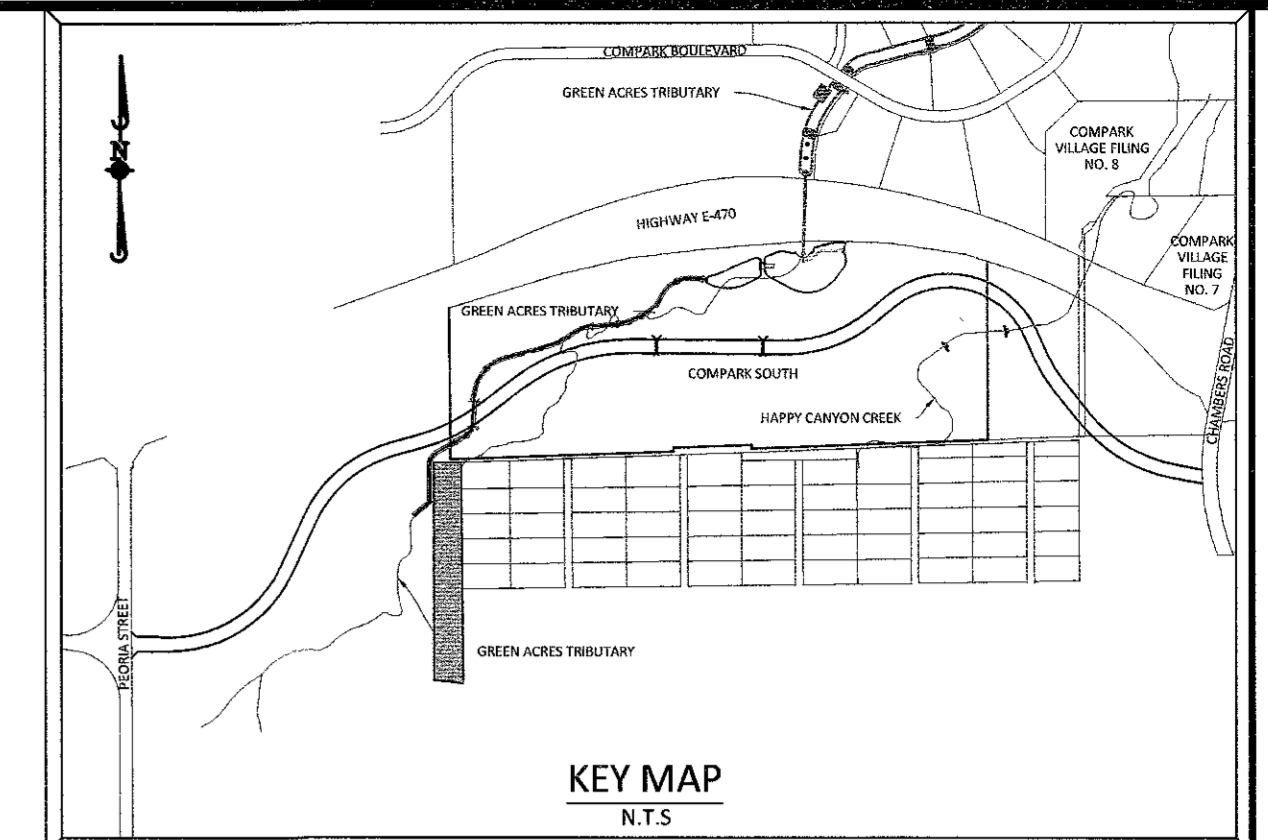
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 DATE: 07/2016

SHEET 3 OF 10
 CLCPKC3.03

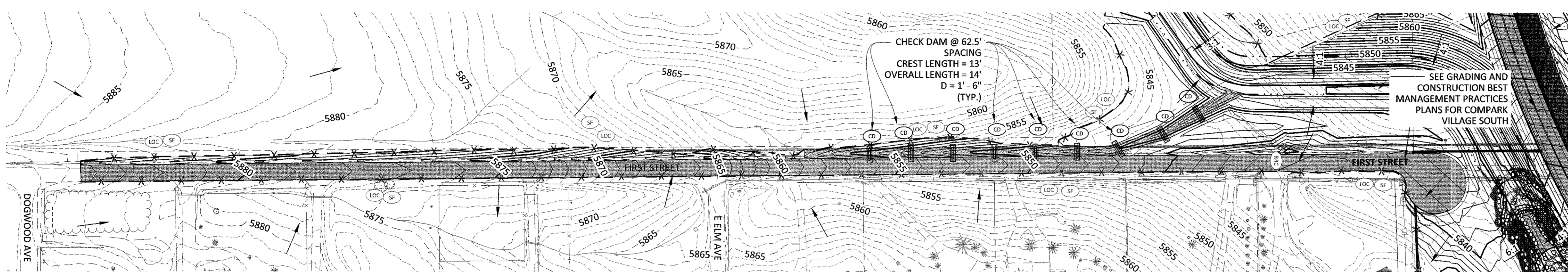
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Plotted: 10/12/2016 12:58 PM Dwg Name: \\msd-jpwnas\Projects\DNV\Gpac3\Compsouth\03-Ultimate\Plan Set\Douglas County\CLCPKC3.dwg Updated By: ABrucker

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BMP LEGEND

→	FLOW/SLOPE DIRECTION
□	CWA CONCRETE WASHOUT AREA
▬	CD CHECK DAM
▬	DD DIVERSION DITCH
▬	ECB EROSION CONTROL BLANKET
▬	IP INLET PROTECTION
▬	RRB REINFORCED ROCK BERM
▬	SB SEDIMENT BASIN
▬	SCL SEDIMENT CONTROL LOG
▬	SM SEEDING AND MULCHING
X	SF SILT FENCE
▬	SSA STABILIZED STAGING AREA
▬	SR SURFACE ROUGHENING
▬	VTC VEHICLE TRACKING CONTROL
---	LOC LIMITS OF CONSTRUCTION
○	SA STOCKPILE AREA

BMP PHASING LEGEND

○	PROPOSED BMP FOR PHASE
○	EXISTING BMP FOR PHASE
○	REMOVE EXISTING BMP FOR PHASE

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[Signature]
 ASSISTANT/DIRECTOR OF DEVELOPMENT REVIEW
 10/21/16

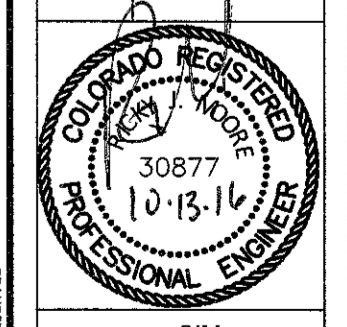
THESE CONSTRUCTION PLANS HAVE BEEN REVIEWED BY DOUGLAS COUNTY FOR GRADING, EROSION, SEDIMENT CONTROL, STREET AND DRAINAGE IMPROVEMENTS ONLY.

ENGINEERING DIVISION ACCEPTANCE BLOCK

DATE	REVISIONS
10-17-16	REVISIONS PER DOUGLAS CO REVIEW
9-26-16	REVISIONS PER DOUGLAS COUNTY REVIEW
8-24-16	2017 ROADSIDE SWALE 317-27-35344-68 PER DOUGLAS CO

Manhard CONSULTING LTD.
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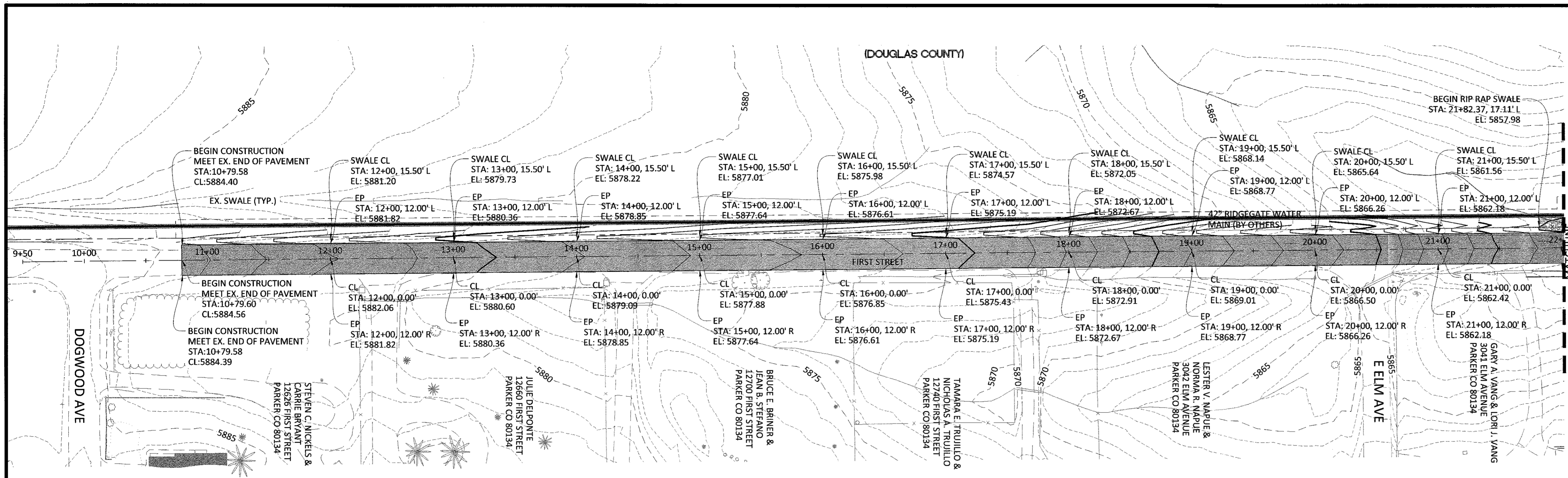
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 DOUGLAS COUNTY, COLORADO
 INTERIM GESC PLAN



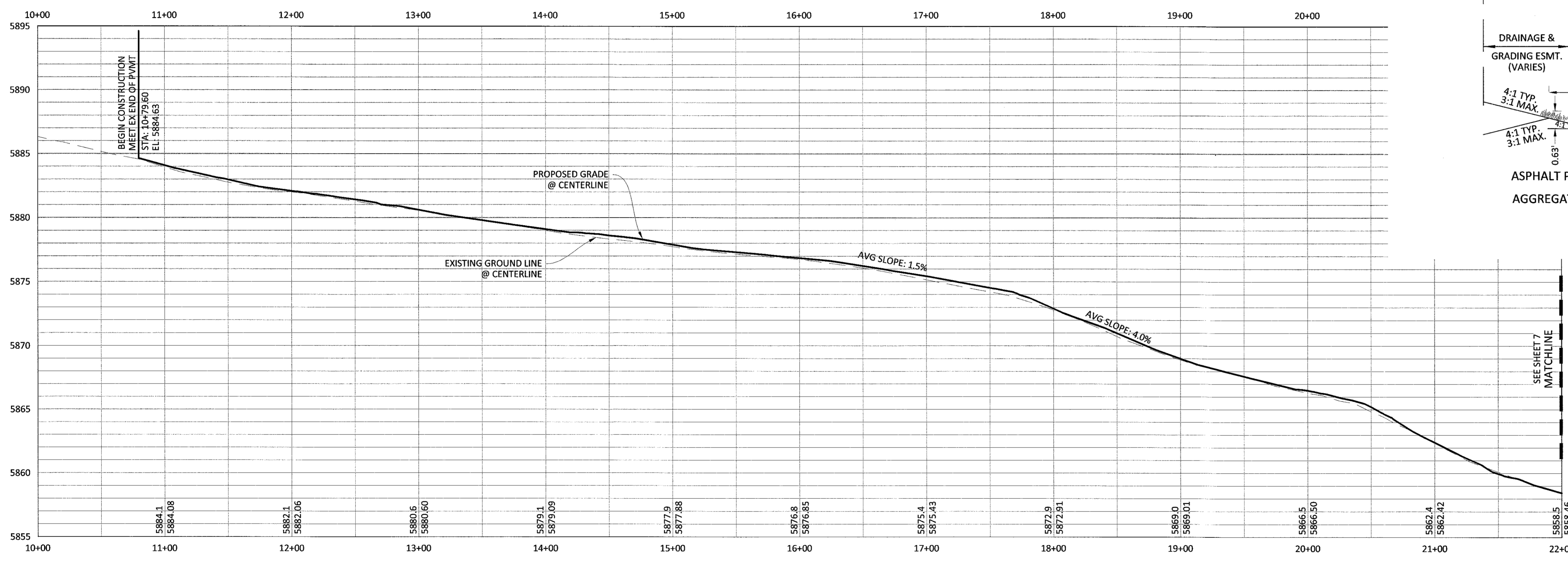
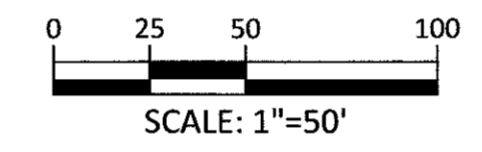
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 PROJ. ASSOC.: BRB
 DRAWN BY:
 DATE: 07/2016

SHEET
4 OF **10**
 CLCPKC3.03

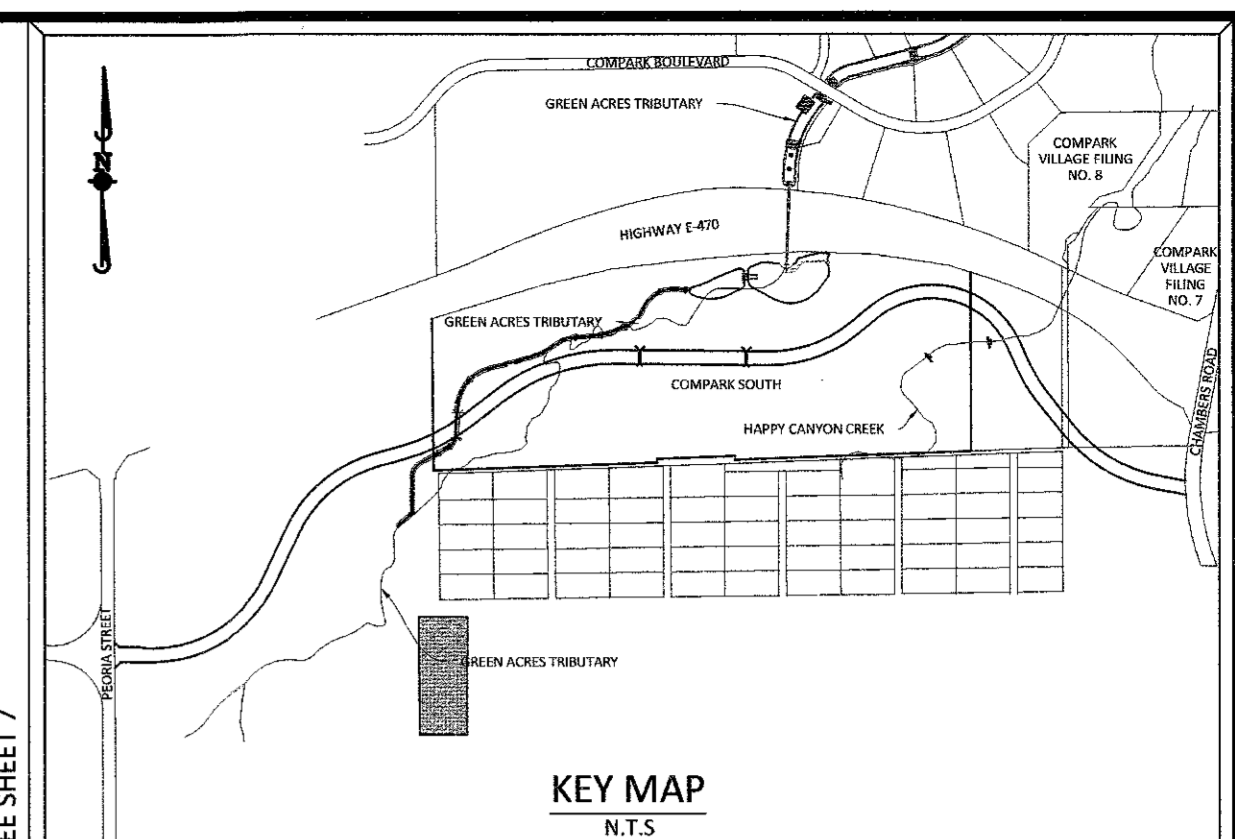
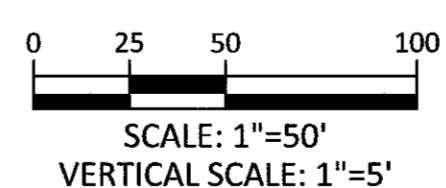
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PLAN: FIRST STREET

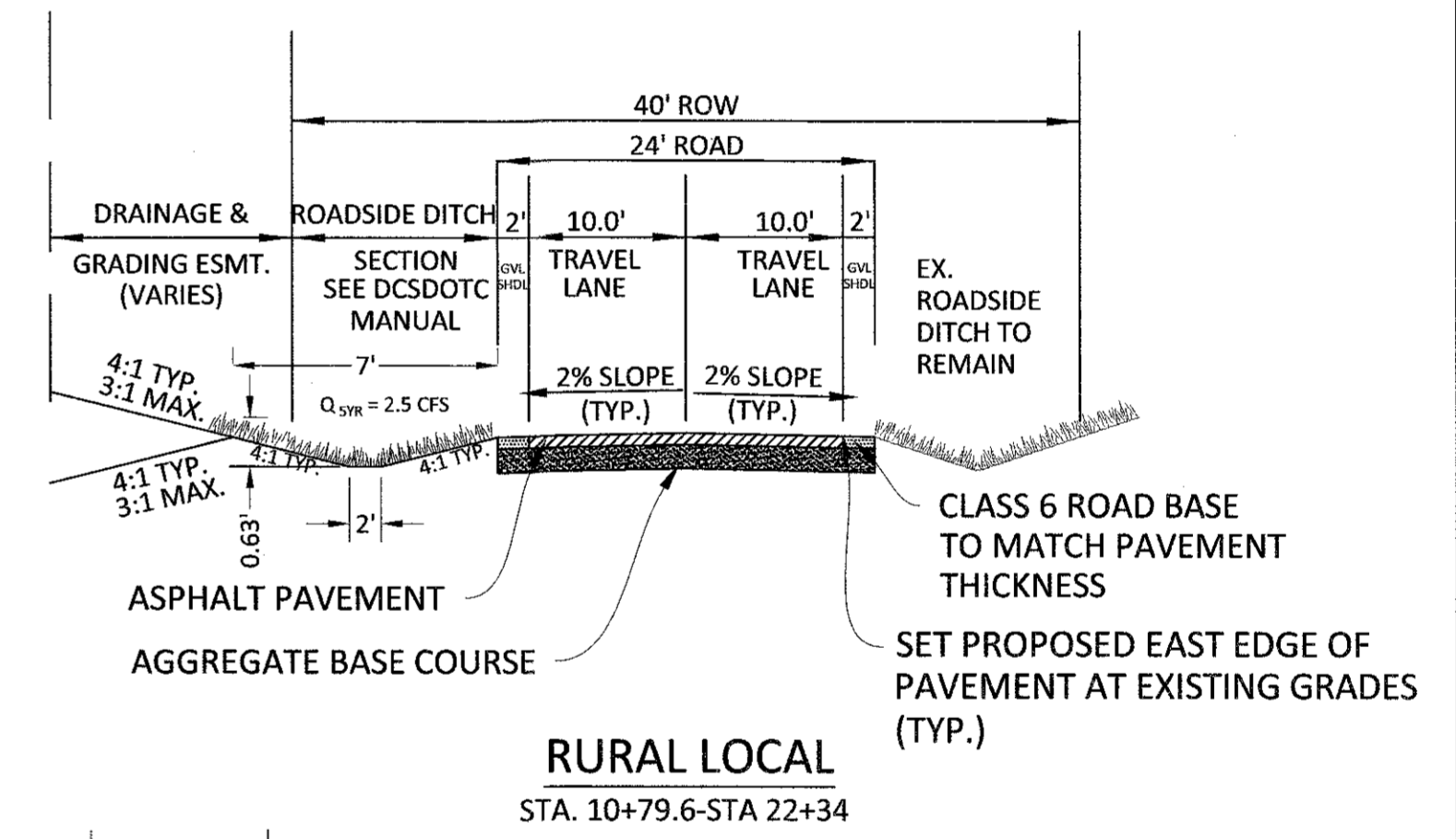


PROFILE: FIRST STREET



SOURCE BENCHMARKS:
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 SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF
 THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)

- NOTES:**
- 1) REFER TO GENERAL NOTES ON SHEET 2 FOR ALL APPLICABLE CONSTRUCTION STANDARDS & MASTER LEGEND
 - 2) ALL STATIONING IS CENTERLINE UNLESS OTHERWISE NOTED. REFER TO FINAL PLAN FOR RIGHT-OF-WAY AND CENTERLINE DIMENSIONS AND HORIZONTAL CONTROL.
 - 3) REFER TO STONEGATE VILLAGE METRO DISTRICT APPROVED WATER AND SANITARY SEWER CONSTRUCTION PLANS FOR ALL PROPOSED WATER AND SANITARY SEWER LOCATIONS.
 - 4) CONTRACTOR TO MEET & MATCH EXISTING GRADES AT DRIVEWAYS & STREET INTERSECTIONS.



[Signature]
 ASSISTANT DIRECTOR OF DEVELOPMENT REVIEW
 DATE: 10/21/16

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ENGINEERING DIVISION ACCEPTANCE BLOCK

Manhard CONSULTING LTD.
 8008 E. Angeleno Court, Suite 110, Centennial, CO 80112
 303.728.0500
 303.728.0400
 manhard.com
 Civil Engineers • Surveyors • Water Resource Engineers • Water & Wastewater Engineers
 Construction Managers • Environmental Scientists • Landscape Architects • Planners

CVS FILING NO. 1 - FIRST STREET IMPROVEMENTS
DOUGLAS COUNTY, COLORADO
FIRST STREET P&P

PROJ. MGR.: RBM
 PROJ. ASSOC.: BRB
 DRAWN BY:
 DATE: 07/2016

PROFESSIONAL ENGINEER
 30877
 10.13.16

SHEET
6 OF 10
 CLCPKC.03

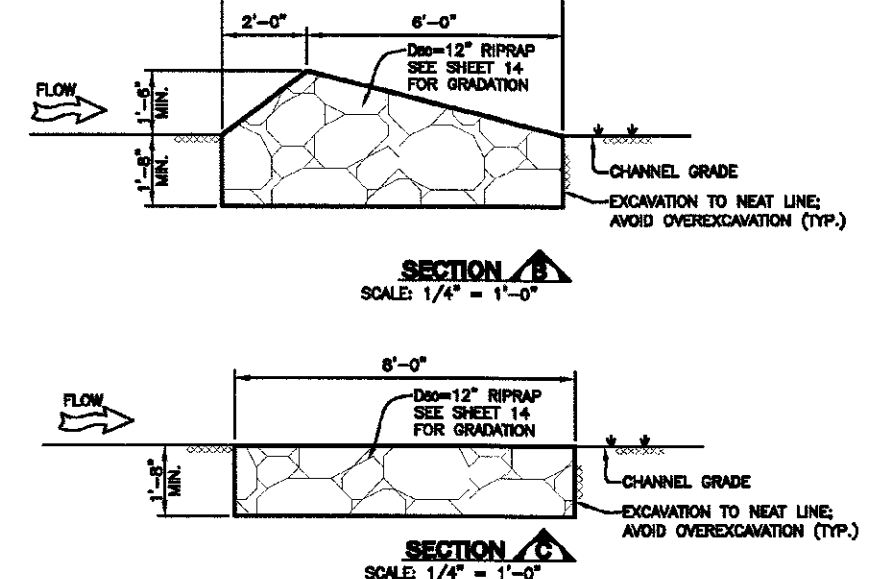
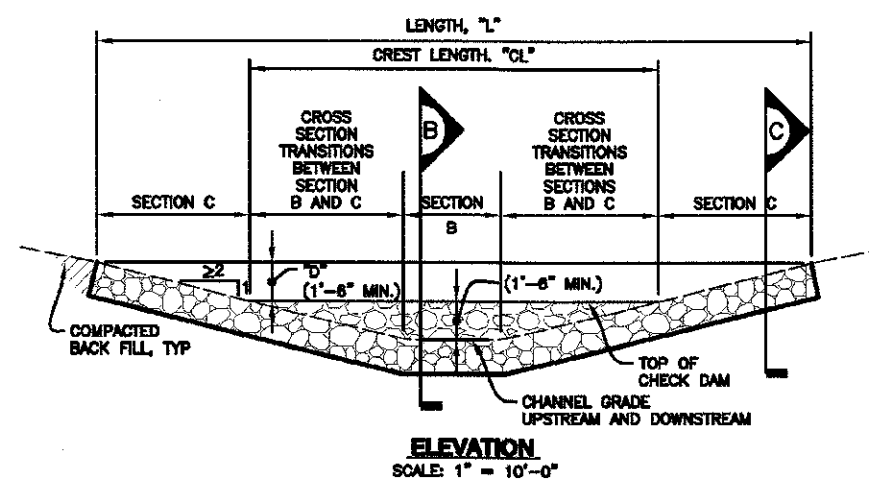
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 Date: 10/13/2016 1:23 PM
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GRADING, EROSION, AND SEDIMENT CONTROL (GESC) GENERAL NOTES

- THE DOUGLAS COUNTY ENGINEER'S SIGNATURE AFFIXED TO THIS DOCUMENT INDICATES THE DOUGLAS COUNTY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION HAS REVIEWED THE DOCUMENT AND FOUND IT IN GENERAL COMPLIANCE WITH THE DOUGLAS COUNTY SUBDIVISION REGULATIONS AND THE GRADING, EROSION AND SEDIMENT CONTROL CRITERIA MANUAL. THE DOUGLAS COUNTY ENGINEER, THROUGH ACCEPTANCE OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY OTHER THAN AS STATED ABOVE FOR THE COMPLETENESS AND/OR ACCURACY OF THESE GRADING AND SEDIMENT CONTROL DEBRS.
- THE ADEQUACY OF THIS GESC PLAN LIES WITH THE ORIGINAL DESIGNER.
- THIS GESC PLAN SHALL BE CONSIDERED VALID FOR TWO (2) YEARS FROM THE DATE OF ACCEPTANCE BY DOUGLAS COUNTY. AFTER THAT TIME THE PLAN SHALL BE VOID AND WILL BE SUBJECT TO RE-REVIEW AND RE-ACCEPTANCE BY DOUGLAS COUNTY.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE DOUGLAS COUNTY ENGINEERING DIVISION. DOUGLAS COUNTY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO THE GESC MANUAL, GESC PLAN OR GESC PERMIT.
- THE PLACEMENT OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) SHALL BE IN ACCORDANCE WITH THE DOUGLAS COUNTY - ACCEPTED GESC PLAN AND THE DOUGLAS COUNTY GESC MANUAL.
- ANY VARIATION IN MATERIAL, TYPE OR LOCATION OF EROSION AND SEDIMENT CONTROL BERM FROM THE DOUGLAS COUNTY - ACCEPTED GESC PLAN WILL REQUIRE APPROVAL FROM AN ACCOUNTABLE REPRESENTATIVE OF THE DOUGLAS COUNTY ENGINEERING DIVISION.
- AFTER THE GESC PLAN HAS BEEN ACCEPTED, THE GESC PERMIT APPLIED FOR, FEES AND FISCAL SECURITY SUBMITTED TO THE COUNTY AND THE GESC FIELD MANUAL OBTAINED AND REVIEWED, THE CONTRACTOR MAY INSTALL THE INITIAL-STAGE EROSION AND SEDIMENT CONTROL BMPs INDICATED ON THE ACCEPTED GESC PLAN.
- THE FIRST BMP TO BE INSTALLED ON THE SITE SHALL BE CONSTRUCTION FENCE, MARKERS, OR OTHER APPROVED MEANS OF DEFINING THE LIMITS OF CONSTRUCTION, INCLUDING CONSTRUCTION LIMITS ADJACENT TO STREAM CORRIDORS AND OTHER AREAS TO BE PRESERVED.
- AFTER INSTALLATION OF THE INITIAL-STAGE EROSION AND SEDIMENT CONTROL BMPs, THE PERMITTEE SHALL CALL THE DOUGLAS COUNTY ENGINEERING PERMITS TECHNICIAN AT 303-860-7487 TO SCHEDULE A PRECONSTRUCTION MEETING AT THE PROJECT SITE. THE REQUEST SHALL BE MADE A MINIMUM OF THREE BUSINESS DAYS PRIOR TO THE REQUESTED MEETING TIME. NO CONSTRUCTION ACTIVITIES SHALL BE PLANNED WITHIN 24 HOURS AFTER THE PRECONSTRUCTION MEETING.
- THE OWNER OR OWNER'S REPRESENTATIVE, THE GESC MANAGER, THE GENERAL CONTRACTOR, AND THE GRADING SUBCONTRACTOR, IF DIFFERENT FROM THE GENERAL CONTRACTOR, MUST ATTEND THE PRECONSTRUCTION MEETING. IF ANY OF THE REQUIRED PARTICIPANTS FAIL TO ATTEND THE PRECONSTRUCTION MEETING, OR IF THE GESC FIELD MANUAL IS NOT ON SITE, OR IF THE INSTALLATION OF THE INITIAL BMPs ARE NOT APPROVED BY THE DOUGLAS COUNTY GESC INSPECTOR, THE APPLICANT WILL HAVE TO PAY A RESUBMISSION FEE. ADDRESS ANY PROBLEMS WITH BMP INSTALLATION, AND CALL TO RESCHEDULE THE MEETING, WITH A CORRESPONDING DELAY IN THE START OF CONSTRUCTION. DOUGLAS COUNTY STRONGLY ENCOURAGES THE APPLICANT TO HAVE THE ENGINEER OF RECORD AT THE PRECONSTRUCTION MEETING. FAILURE OF THE ENGINEER OF RECORD TO ATTEND MAY RESULT IN A DELAY OF THE START OF CONSTRUCTION.
- CONSTRUCTION SHALL NOT BEGIN UNTIL THE DOUGLAS COUNTY GESC INSPECTOR APPROVES THE INSTALLATION OF THE INITIAL BMPs AND THE APPROVED GESC PERMIT IS PICKED UP FROM THE COUNTY AND IS IN-HAND ON THE SITE. THE COMPLETED PERMIT WILL BE AVAILABLE WITHIN 24 HOURS AFTER THE INSTALLATION OF THE INITIAL BMPs ARE APPROVED.
- THE GESC MANAGER SHALL STRICTLY ADHERE TO THE DOUGLAS COUNTY-APPROVED LIMITS OF CONSTRUCTION AT ALL TIMES. THE DOUGLAS COUNTY ENGINEERING DIVISION MUST APPROVE ANY CHANGES TO THE LIMITS OF CONSTRUCTION AND, AT THE DISCRETION OF THE ENGINEERING DIVISION, ADDITIONAL EROSION/SEDIMENT CONTROLS MAY BE REQUIRED DURING ANY CONSTRUCTION.
- THE MAXIMUM AREA OF CONSTRUCTION SHALL BE LIMITED TO 40 ACRES (70 ACRES IF APPROVED FOR SOIL MITIGATION OPERATIONS) TO REDUCE THE AMOUNT OF LAND DISTURBED AT ANY ONE TIME. LARGER SITES SHALL BE DIVIDED INTO PHASES THAT ARE 240 TO 400 ACRES OR LESS IN SIZE. THESE PRODUCTS SHALL CONDUCT GRADING ACTIVITIES IN ACCORDANCE WITH THE ACCEPTED GESC PLAN, BMP INSTALLATION AND APPROVAL BY DOUGLAS COUNTY AT THE START AND COMPLETION OF EACH PHASE SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROCEDURES OUTLINED IN THE GESC MANUAL AND/OR GESC FIELD MANUAL.
- PRIOR TO ACTUAL CONSTRUCTION, THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES. FOR INFORMATION, CONTACT THE DENVER INTER-UTILITY GROUP AT 1-800-922-1887 OR FAX AT (303)334-8700.
- NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED WHEREVER POSSIBLE. EXPOSURE OF SOIL TO EROSION BY REMOVAL OF COVER OR VEGETATION SHALL BE LIMITED TO THE AREA REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATIONS.
- THE GESC PERMIT SHALL BE VALID FOR A PERIOD OF ONE (1) YEAR.
- A COPY OF THE GESC PERMIT, ACCEPTED GESC PLANS AND THE GESC FIELD MANUAL SHALL BE ON SITE AT ALL TIMES.
- THE GESC MANAGER SHALL BE RESPONSIBLE FOR ENSURING THAT THE SITE REMAINS IN COMPLIANCE WITH THE GESC PERMIT AND SHALL NOTIFY THE COUNTY FOR ALL MATTERS PERTAINING TO THE GESC PERMIT. THE GESC MANAGER SHALL BE PRESENT AT THE SITE MAJORITY OF THE TIME AND SHALL BE AVAILABLE THROUGHOUT THE CONSTRUCTION PERIOD. IN THE EVENT THAT THE CONTRACTOR'S GESC MANAGER IS NOT ON SITE AND CANNOT BE REACHED DURING A VIOLATION, THE ALTERNATE GESC MANAGER SHALL BE CONTACTED. WHETHER THE GESC MANAGER OR ALTERNATE GESC MANAGER CAN BE CONTACTED DURING A VIOLATION, STOP WORK ORDER SHALL BE ISSUED.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE THROUGH THE DOUGLAS COUNTY-APPROVED ACCESS POINT. A VEHICLE TRACKING CONTROL PAD IS REQUIRED AT ALL ACCESS POINTS ON THE SITE. ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES MAY BE ADDED WITH AUTHORIZATION FROM THE DOUGLAS COUNTY ENGINEERING DIVISION.
- THE GESC MANAGER IS RESPONSIBLE FOR CLEANUP OF SEDIMENT OR CONSTRUCTION DEBRIS TRACKED ONTO ADJACENT PAVED AREAS. PAVED AREAS INCLUDING STREETS ARE TO BE KEPT CLEAN THROUGHOUT BUILD-OUT AND SHALL BE CLEANED WITH A STREET SWEEPER OR SIMILAR DEVICE AT FIRST NOTICE OF ACCIDENTAL SEDIMENT CONTROL CRITERIA MANUAL. THE DOUGLAS COUNTY GESC INSPECTOR, STREET WASHING IS NOT ALLOWED. DOUGLAS COUNTY RESERVES THE RIGHT TO REQUIRE ADDITIONAL MEASURES TO ENSURE AREA STREETS ARE KEPT FREE OF SEDIMENT AND/OR CONSTRUCTION DEBRIS.
- APPROVED EROSION AND SEDIMENT CONTROL BMPs SHALL BE MAINTAINED AND KEPT IN GOOD REPAIR FOR THE DURATION OF THIS PROJECT. AT A MINIMUM, THE GESC MANAGER SHALL INSPECT ALL BMPs IN ACCORDANCE WITH THE ACCEPTED GESC PLAN AND GESC MANUAL. ALL NECESSARY MAINTENANCE AND REPAIR ACTIVITIES SHALL BE COMPLETED WITHIN 48 HOURS FOR LEVEL II VIOLATIONS, AND IMMEDIATELY FOR LEVEL III VIOLATIONS, OR AS DIRECTED BY A DOUGLAS COUNTY GESC INSPECTOR. ACCUMULATED SEDIMENT AND CONSTRUCTION DEBRIS SHALL BE REMOVED AND PROPERLY DISPOSED.
- STRAW BALES ARE NOT A DOUGLAS COUNTY GESC-ACCEPTED SEDIMENT CONTROL BMP.
- TOPSOIL SHALL BE STRIPPED AND STOCKPILED IN THE LOCATION SHOWN ON THE ACCEPTED GESC PLAN. THE GESC MANAGER SHALL SCHEDULE AN INSPECTION WITH THE DOUGLAS COUNTY GESC INSPECTOR AS SOON AS TOPSOIL STRIPPING IS COMPLETED. FAILURE TO SCHEDULE SUCH INSPECTION OR FAILURE TO STOCKPILE TOPSOIL SHALL RESULT IN ISSUANCE OF A STOP WORK ORDER. THE STOP WORK ORDER SHALL REMAIN IN PLACE UNTIL TOPSOIL IS STOCKPILED ON SITE OR APPROPRIATE SOIL AMENDMENTS ARE STOCKPILED ON SITE.
- THE ACCEPTED GESC PLAN MAY REQUIRE CHANGES OR ALTERATIONS APPROVAL TO MEET CHANGING SITE OR PROJECT CONDITIONS OR TO ADDRESS PROBLEMS IN DESIGN OR INSTALLATION. THE GESC MANAGER SHALL OBTAIN PRIOR APPROVAL FROM THE DESIGN ENGINEER AND DOUGLAS COUNTY ENGINEERING FOR ANY PROPOSED CHANGES.
- LINING OF TEMPORARY SHOALS AND DITCHES SHALL BE IN ACCORDANCE WITH THE GESC CRITERIA MANUAL.
- NO PERMANENT EARTH SLOPES GREATER THAN 3:1 SHALL BE ALLOWED.
- ANY SETTLEMENT OR SOIL ACCUMULATIONS BEYOND THE LIMITS OF CONSTRUCTION DUE TO GRADING OR EROSION SHALL BE REPAIRED IMMEDIATELY BY THE GESC MANAGER. THE GESC MANAGER SHALL BE HELD RESPONSIBLE FOR OBTAINING ACCESS RIGHTS TO ADJACENT PROPERTY, IF NEEDED, AND REMEDIATING ANY ADVERSE IMPACTS RESULTING FROM THE PROJECT. PROPERLY EROSION CONTROL RESIDUAL FROM WORK DONE AS PART OF THIS PROJECT.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- SOILS THAT WILL BE STOCKPILED FOR MORE THAN THIRTY (30) DAYS SHALL BE SEEDING AND MULCHED WITHIN FOURTEEN (14) DAYS OF STOCKPILE COMPLETION. NO STOCKPILES SHALL BE PLACED WITHIN ONE HUNDRED (100) FEET OF A DRAINAGE WAY UNLESS APPROVED BY THE DOUGLAS COUNTY ENGINEERING DIVISION.
- ALL CHEMICAL OR HAZARDOUS MATERIAL SPILLS WHICH MAY ENTER WATERS OF THE STATE OF COLORADO, WHICH INCLUDE BUT ARE NOT LIMITED TO, SURFACE WATER, GROUND WATER AND DRY GULLIES OR STORM SEWERS LEADING TO SURFACE WATER, SHALL BE IMMEDIATELY REPORTED TO THE COPIE PER CRS 25-8-801, AND DOUGLAS COUNTY. RELEASES OF PETROLEUM PRODUCTS AND CERTAIN HAZARDOUS SUBSTANCES LISTED UNDER THE FEDERAL CLEAN WATER ACT (40 CFR PART 118) MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER AS WELL AS THE COPIE CONTACT INFORMATION FOR COPIE, DOUGLAS COUNTY AND THE NATIONAL RESPONSE CENTER CAN BE FOUND IN APPENDIX A. SPILLS THAT POSE AN IMMEDIATE RISK TO HUMAN LIFE SHALL BE REPORTED TO 911. FAILURE TO REPORT AND CLEAN UP ANY SPILL SHALL RESULT IN ISSUANCE OF A STOP WORK ORDER.
- ALL WORK ON SITE SHALL STAY A MINIMUM OF ONE HUNDRED (100) FEET AWAY FROM ANY DRAINAGE WAY, WETLAND, ETC. UNLESS OTHERWISE NOTED ON AN ACCEPTED DOUGLAS COUNTY GESC PLAN.
- ALL PROJECTS SHALL BALANCE EARTHWORK QUANTITIES ON SITE. IN THE EVENT A VARIANCE IS GRANTED BY THE COUNTY ENGINEER TO ALLOW IMPORT OR EXPORT OF MATERIAL, THE PERMITTEE SHALL HAVE A GESC PERMIT IN HAND FOR THE IMPORT OR EXPORT SITE PRIOR TO ANY TRANSPORTING OF EARTHEN MATERIAL. THE GESC MANAGER SHALL NOTIFY THE DOUGLAS COUNTY GESC INSPECTOR OF THE LOCATION AND PERMIT NUMBERS OF BOTH THE EXPORTING AND IMPORTING SITES PRIOR TO ANY IMPORT/EXPORT OPERATIONS.
- THE USE OF REBAR, STEEL STAKES OR STEEL FENCE POSTS FOR STAKING OR SUPPORT OF ANY EROSION OR SEDIMENT CONTROL BMP IS PROHIBITED EXCEPT STEEL TEE-POSTS FOR USE IN SUPPORTING CONSTRUCTION FENCE.
- THE CLEANING OF CONCRETE DELIVERY TRUCK CHUTES IS RESTRICTED TO APPROVED CONCRETE WASH AREA LOCATIONS ON THE JOB SITE. THE DISCHARGE OF WATER CONTAINING WASTE CONCRETE TO THE STORM SEWER SYSTEM IS PROHIBITED. ALL CONCRETE WASTE SHALL BE PROPERLY CLEANED UP AND DISPOSED AT AN APPROPRIATE LOCATION.
- ALL DETERIORATING ON SITE SHALL BE COORDINATED WITH A DOUGLAS COUNTY GESC INSPECTOR AND BE FREE OF SEDIMENT ACCORDING TO GESC CRITERIA MANUAL.
- ALL PERMANENT INSTALLATIONS OF PIPES FOR STORM SEWERS, SLOPE DRAINS, AND CULVERTS, TOGETHER WITH RIPRAP APRONS OR OTHER INLET AND OUTLET PROTECTION, REQUIRE INSPECTION BY DOUGLAS COUNTY ENGINEERING (SEPARATE FROM GESC INSPECTIONS).
- ALL DISTURBED AREAS SHALL BE DRILL SEEDING AND CRIMP MULCHED IN ACCORDANCE WITH THE GESC CRITERIA MANUAL. WITHIN THIRTY DAYS OF INITIAL EXPOSURE OR WITHIN SEVEN DAYS OF SUBSTANTIAL COMPLETION (AS DEFINED BY DOUGLAS COUNTY) OF AN AREA, WHICHEVER IS LESS, THIS MAY REQUIRE MULTIPLE MOBILIZATIONS FOR SEEDING, MULCHING, WETLAND, ETC. REPAIRS.
- HYDRAULIC SEEDING AND HYDRAULIC MULCHING ARE NOT AN ACCEPTABLE METHOD OF SEEDING OR MULCHING IN DOUGLAS COUNTY.
- NO CURB AND GUTTER PERMITS SHALL BE ISSUED UNTIL ALL DISTURBED AREAS ARE DRILL SEEDING AND CRIMP MULCHED.
- NO PAVING PERMITS SHALL BE ISSUED UNTIL ALL INTERIM INLET PROTECTION IS INSTALLED AND APPROVED BY THE GESC INSPECTOR.
- A FINAL GESC INSPECTION SHALL BE CONDUCTED A MINIMUM OF TWO WEEKS PRIOR TO THE ANTICIPATED REQUEST FOR CERTIFICATE OR TEMPORARY CERTIFICATE OF OCCUPANCY OR INITIAL ACCEPTANCE.

DETAIL SHEET

- | NO. | NO. | BMP LEGEND |
|-----|-----|-------------------------------|
| 1 | 1 | CD CHECK DAM |
| 2 | 2 | CB COMPOST BLANKET |
| 3 | 3 | CFB COMPOST FILTER BERM |
| 4 | 4 | CWA CONCRETE WASHOUT AREA |
| 5 | 5 | CF CONSTRUCTION FENCE |
| 6 | 6 | CM CONSTRUCTION MARKERS |
| 7 | 7 | DW DEWATERING |
| 8 | 8 | DD DIVERSION DITCH |
| 9 | 9 | ESB EROSION CONTROL BLANKET |
| 10 | 10 | IP INLET PROTECTION |
| 11 | 11 | RCR REINFORCED CHECK DAM |
| 12 | 12 | RRR REINFORCED ROCK BERM |
| 13 | 13 | RRR FOR CULVERT PROTECTION |
| 14 | 14 | RSB SEDIMENT BASIN |
| 15 | 15 | SSL SEDIMENT CONTROL LOG |
| 16 | 16 | ST SEDIMENT TRAP |
| 17 | 17 | SM SEEDING AND MULCHING |
| 18 | 18 | SF SILT FENCE |
| 19 | 19 | SSA STABILIZED STAGING AREA |
| 20 | 20 | SR SURFACE ROUGHENING |
| 21 | 21 | TSB TEMPORARY SLOPE DRAIN |
| 22 | 22 | TSC TEMPORARY STREAM CROSSING |
| 23 | 23 | TER TERRACING |
| 24 | 24 | VTC VEHICLE TRACKING CONTROL |
| 25 | 25 | VWC VTC WITH WHEEL WASH |
| | | LOO LIMITS OF CONSTRUCTION |



COMPOST BLANKET NOTES:

- SEE PLAN VIEW FOR AREA OF COMPOST BLANKET.
- MAY BE USED IN PLACE OF STRAW MULCH OR EROSION CONTROL BLANKET IN AREAS WHERE ACCESS IS DIFFICULT DUE TO UNDESIRABLE OR OTHER OBSTACLES OR IN AREAS WHERE A SMOOTH TURF GRASS FINISH IS DESIRED.
- SHALL ONLY BE UTILIZED IN AREAS WHERE SHEET FLOW CONDITIONS PREVAIL; SHALL BE PROHIBITED IN AREAS OF POSSIBLE CONCENTRATED FLOW.
- SOIL PREPARATION SHALL BE COMPLETE PER THE SPECIFICATIONS OUTLINED IN THESE CRITERIA PRIOR TO APPLICATION.
- WHEN TURF GRASS FINISH IS NOT DESIRED, SURFACE ROUGHENING ON SLOPES SHALL TAKE PLACE PRIOR TO APPLICATION.
- SHALL BE EVENLY APPLIED AT A DEPTH OF 2 INCH.
- MAYBE APPLIED UTILIZING PNEUMATIC BLOWER, OR BY HAND.
- SEEDING SHALL BE COMPLETED PRIOR TO THE APPLICATION OF COMPOST OR SEED MAY BE COMBINED AND BLOWN WITH THE PNEUMATIC BLOWER.
- COMPOST FILTER BERMS SHALL BE UTILIZED ON SLOPES WITH A MAXIMUM SPACING OF 15 FEET FOR THE REQUIREMENTS FOUND IN THE COMPOST FILTER BERM SECTION.
- THE GESC MANAGER SHALL INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT.

COMPOST FILTER BERM NOTES:

- SEE PLAN VIEW FOR LENGTH OF COMPOST FILTER BERM.
- SHALL BE APPLIED TO ALL SLOPES RECEIVING A COMPOST BLANKET AT 15' INCREMENTS.
- FILTER BERMS SHALL RUN PARALLEL TO THE CONTOUR.
- FILTER BERMS SHALL BE A MINIMUM OF 1' H₁ ± 2' W.
- FILTER BERMS SHALL BE APPLIED UTILIZING PNEUMATIC BLOWER, OR BY HAND.
- SHALL ONLY BE UTILIZED IN AREAS WHERE SHEET FLOW CONDITIONS PREVAIL; SHALL BE PROHIBITED IN AREAS OF POSSIBLE CONCENTRATED FLOW.
- SOIL PREPARATION SHALL BE COMPLETE PER THE SPECIFICATIONS OUTLINED IN THESE CRITERIA PRIOR TO APPLICATION.
- WHEN TURF GRASS FINISH IS NOT DESIRED, SURFACE ROUGHENING ON SLOPES SHALL TAKE PLACE PRIOR TO APPLICATION.
- SEEDING SHALL BE COMPLETED BEFORE THE APPLICATION OF COMPOST OR SEED MAY BE COMBINED AND BLOWN WITH THE PNEUMATIC BLOWER.
- THE GESC MANAGER SHALL INSPECT WEEKLY, DURING AND AFTER ANY STORM EVENT.
- COMPOST FILTER BERMS SHALL BE UTILIZED ON SLOPES WITH A MAXIMUM SPACING OF 15 FEET FOR THE REQUIREMENTS FOUND IN THE COMPOST FILTER BERM SECTION.
- COMPOST SHALL BE APPLIED IN THE APPLICATION OF THE COMPOST BLANKET SHALL BE CLASS I COMPOST AS DEFINED BY THE FOLLOWING PHYSICAL, CHEMICAL, AND BIOLOGICAL PARAMETERS:

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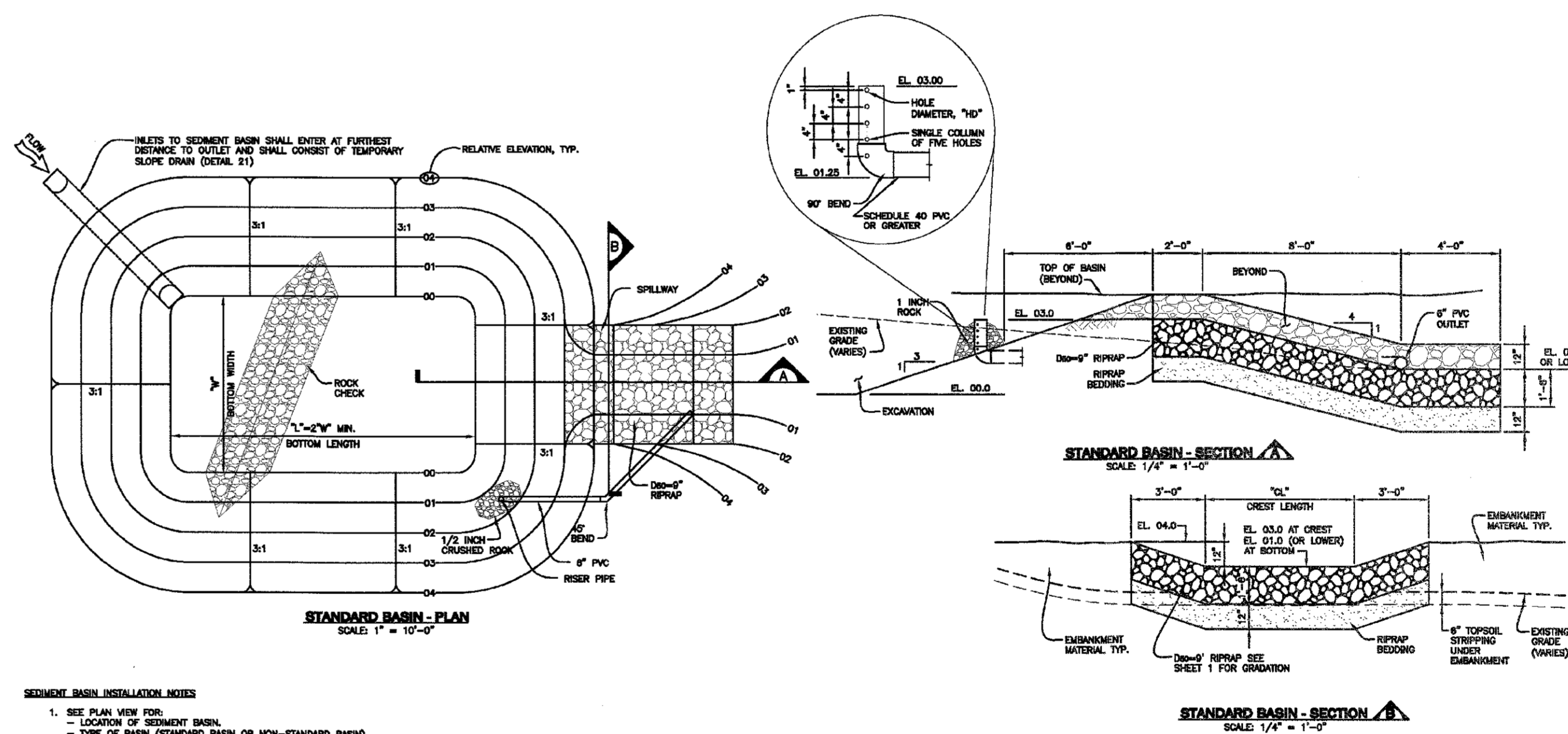
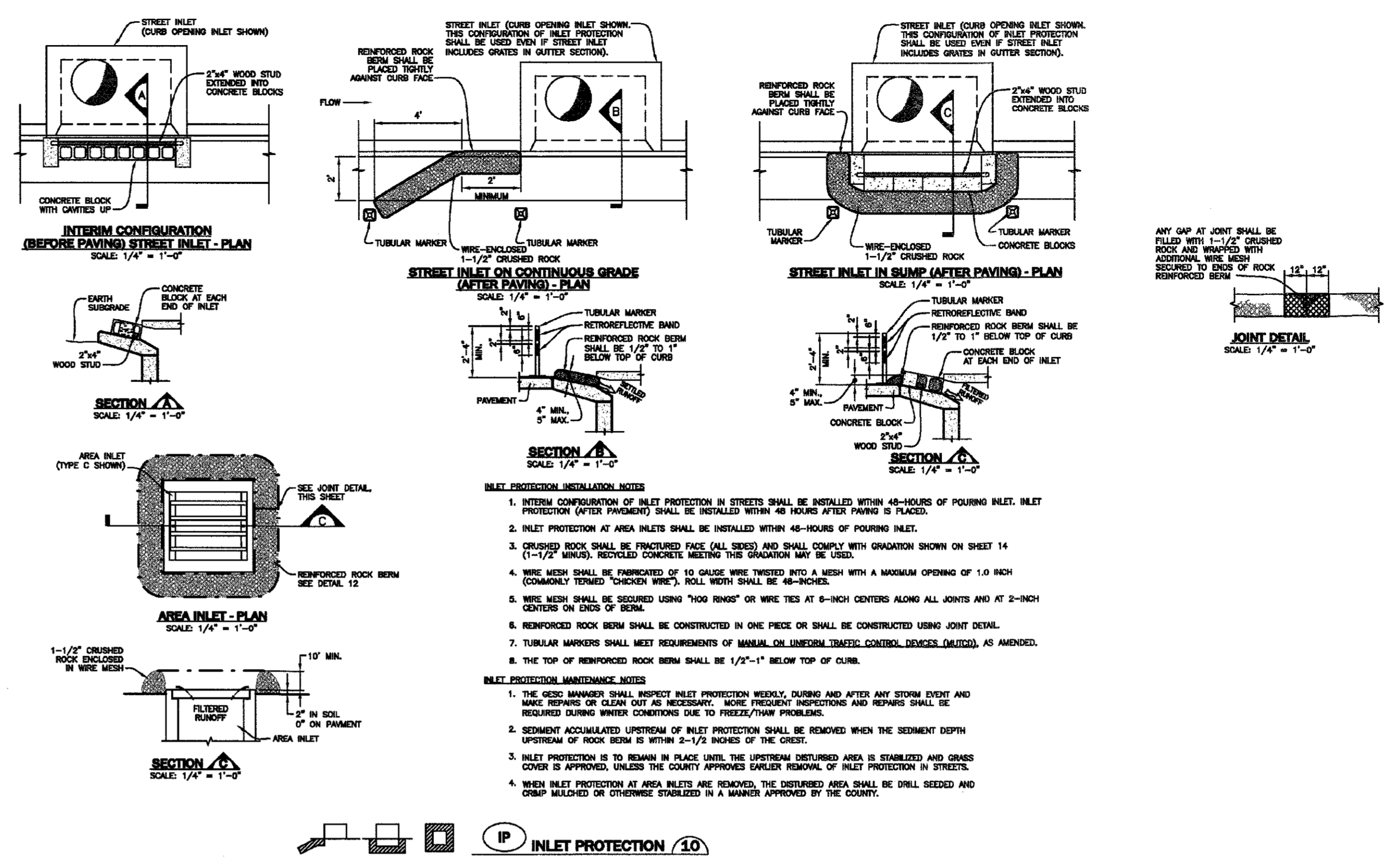
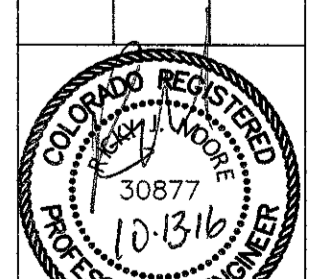
MINIMUM STABILITY INDICATOR	STABLE TO VERY STABLE
SOLUBLE SALTS	0.5 - 8.0
CEC	10 - 20
AD INDEX	> 10
MACRO NUTRIENT EXPRESSED AS PERCENTAGE OF ORGANIZATION/ANION	> 700
MACRO NUTRIENT EXPRESSED AS AMMONIA-N WITHIN N RATIO	< 4
MACRO NUTRIENT EXPRESSED AS CARBON TO NITROGEN RATIO	20:1
MACRO NUTRIENT EXPRESSED AS NITROGEN TO CARBON RATIO	1:20
MOISTURE CONTENT	30-50
TESTES FOR CLOSTRIDIA	YES/NEGATIVE RESULT
PARTICLE SIZE DISTRIBUTION	25 - 75% 100% PASSING
	3/4" (19mm) 80% TO 100% PASSING
	3/8" (9.5mm) 60% TO 80% PASSING
	1/4" (6.3mm) 40% TO 60% PASSING
	NO. 20 20% TO 40% PASSING
	NO. 40 10% TO 20% PASSING
	NO. 60 5% TO 10% PASSING
	NO. 100 2% TO 5% PASSING
	NO. 200 1% TO 2% PASSING
	NO. 400 0.75% TO 1% PASSING
	NO. 600 0.5% TO 0.75% PASSING
	NO. 800 0.375% TO 0.5% PASSING
	NO. 1000 0.25% TO 0.375% PASSING
	NO. 1500 0.15% TO 0.25% PASSING
	NO. 2000 0.1% TO 0.15% PASSING
	NO. 2500 0.075% TO 0.1% PASSING
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	NO. 3500 0.0375% TO 0.05% PASSING
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3	8-24-16

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 BOB E. Arpaian, P.E., State 110, Colorado, CO 80116, (303) 798-0900, bob@manhard.com
 Civil Engineers • Surveyors • Water-Resource Engineers • Water & Wastewater Engineers
 Construction Managers • Environmental Scientists • Landscape Architects • Planners

CVS FILING NO. 1 - FIRST STREET IMPROVEMENTS
 DOUGLAS COUNTY, COLORADO
 GESC DETAILS - 2 OF 3

PROJ. NO.: RUM
 PROJ. ASSOC.: BRB
 DRAWN BY: BAB
 DATE: 07/2016
 SHEET
9 OF **10**
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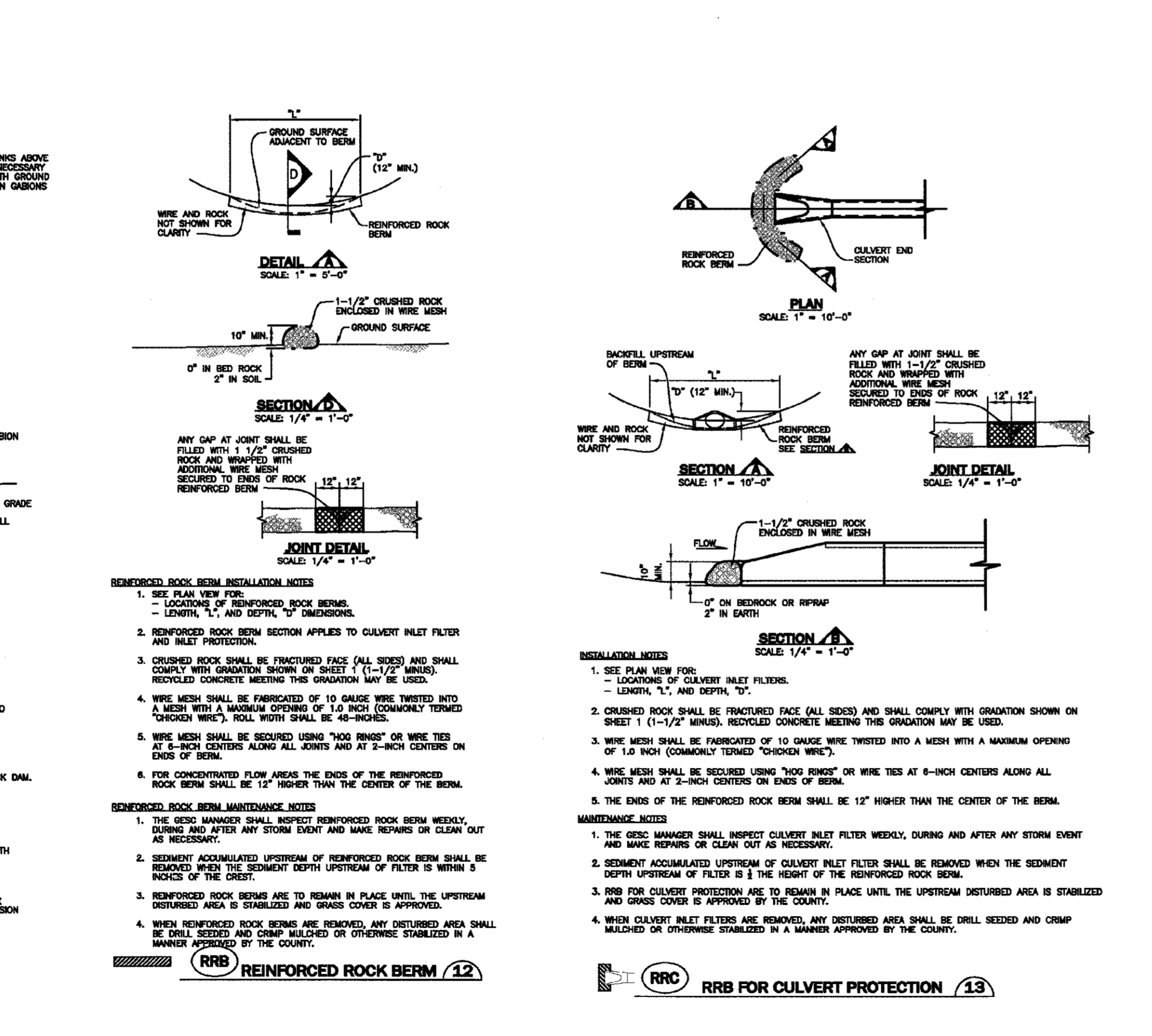
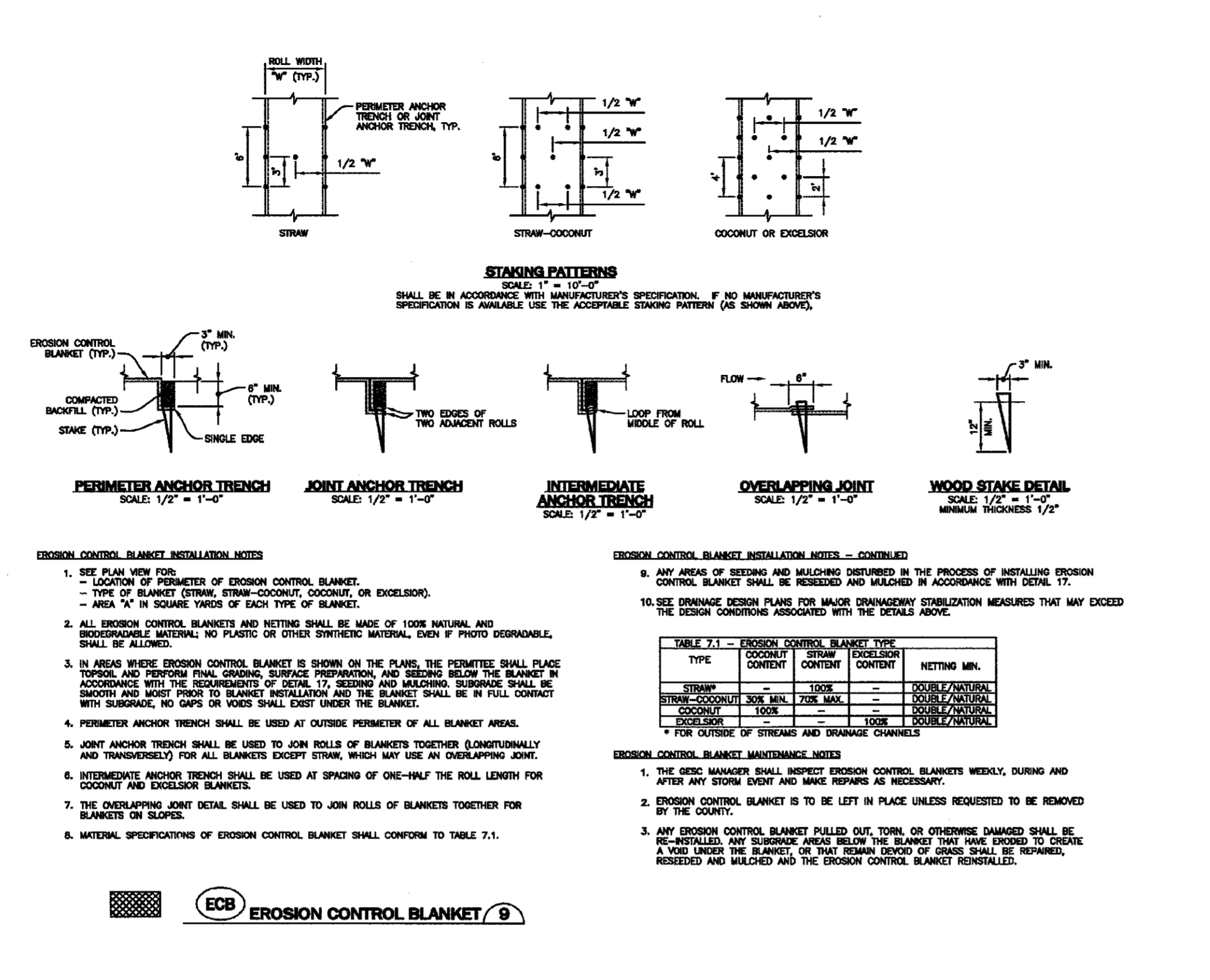


SEDIMENT BASIN INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF SEDIMENT BASIN
 - TYPE OF BASIN (STANDARD BASIN OR NON-STANDARD BASIN)
 - FOR STANDARD BASIN: CREST LENGTH, "L", BOTTOM WIDTH, "W", AND HOLE DIAMETER, "D"
 - FOR NON-STANDARD BASIN: SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISSER HEIGHT, "H", NUMBER OF COLLARS, "N", HOLE DIAMETER, "D", AND PIPE DIAMETER, "P"
- FOR STANDARD BASIN, BOTTOM DIMENSION SHALL BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
- SEDIMENT BASINS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY.
- EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.
- EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY WITHIN 2 PERCENTAGE POINTS OF OPTIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
- PIPE SCH 40 OR GREATER SHALL BE USED.
- THE DETAILS SHOWN ON THIS SHEET PERTAIN TO STANDARD SEDIMENT BASINS IDENTIFIED ON THE GESC PLAN VIEW DRAWINGS USED FOR DRAINAGE AREAS LARGER THAN 10 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTFLET, AND OUTFLET PROTECTION DETAILS FOR ANY SEDIMENT BASINS THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 10 ACRES.

SEDIMENT BASIN MAINTENANCE NOTES

- THE GESC MANAGER SHALL INSPECT SEDIMENT BASIN WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY.
- SEDIMENT ACCUMULATED IN SEDIMENT BASIN SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS WITHIN 2.0 FEET OF THE CREST OF THE SPILLWAY.
- SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY THE COUNTY.
- IF SEDIMENT BASINS ARE REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MALCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.

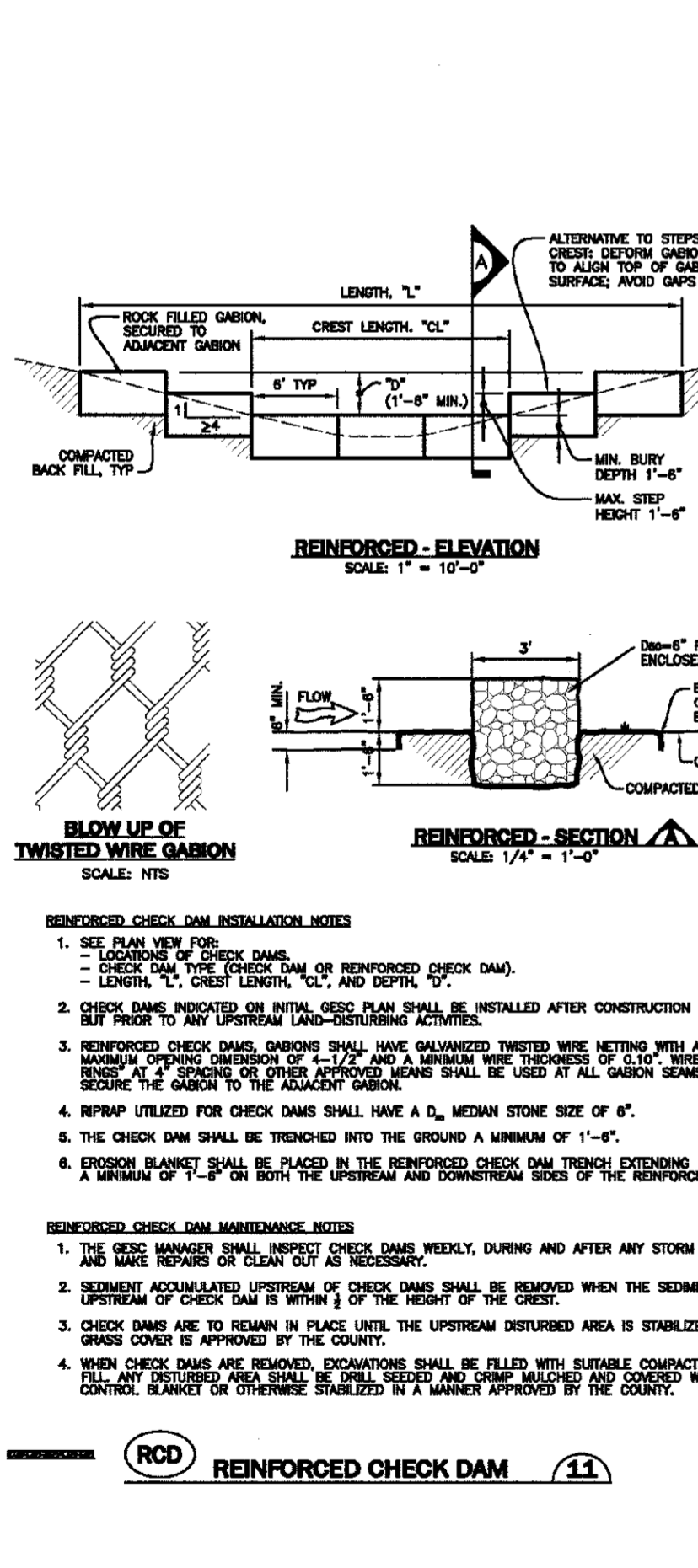
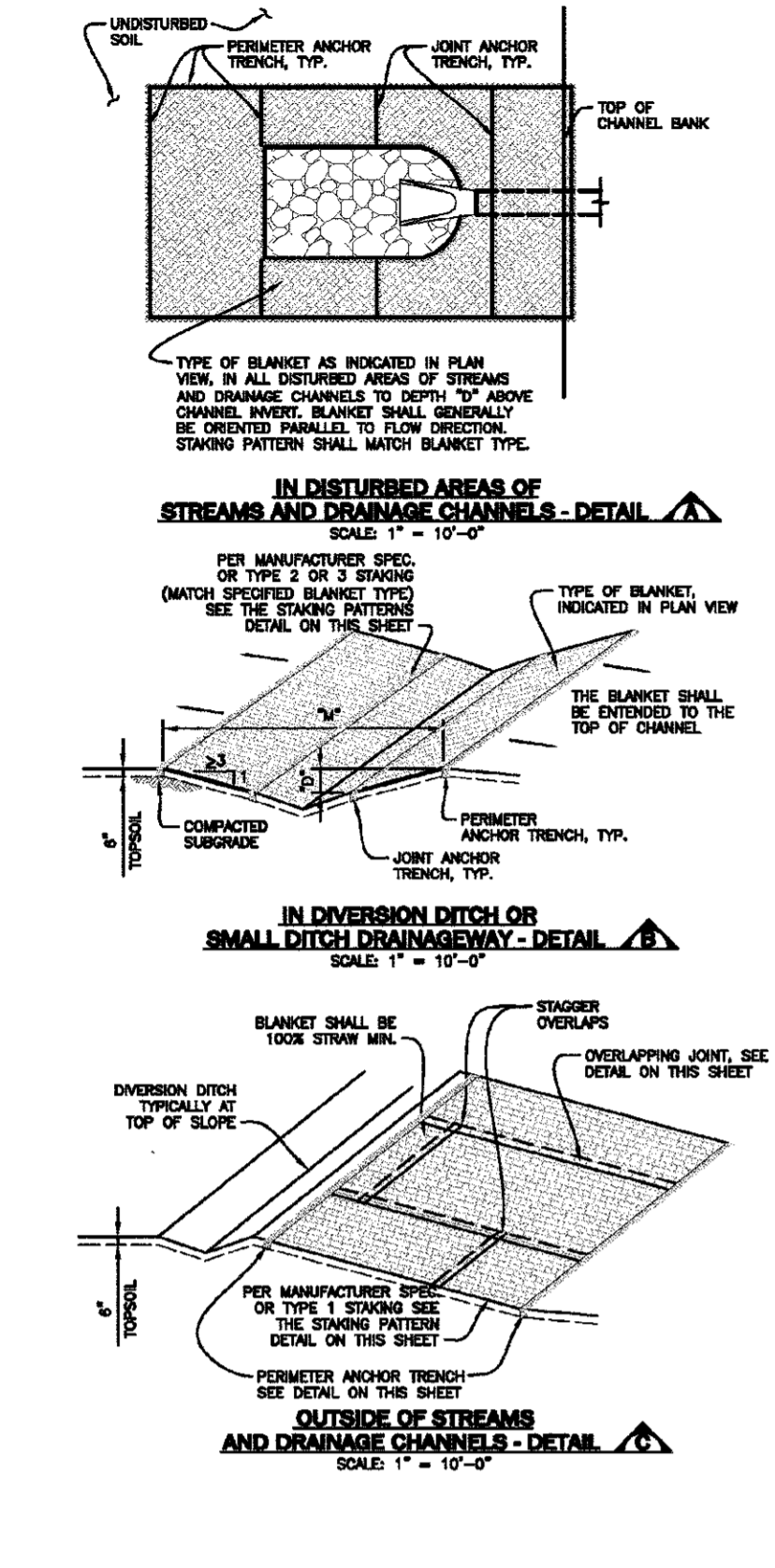


REINFORCED ROCK BERM INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF REINFORCED ROCK BERM
 - LENGTH, "L", AND DEPTH, "D", DIMENSIONS
- REINFORCED ROCK BERM SECTION APPLIES TO CULVERT INLET FILTER AND INLET PROTECTION.
- CRUSHED ROCK SHALL BE FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON SHEET 1 (1-1/2" MINUS), RECYCLED CONCRETE MEETING THIS GRADATION MAY BE USED.
- WIRE MESH SHALL BE FABRICATED OF 10 GAUGE WIRE TWISTED INTO A MESH WITH A MAXIMUM OPENING OF 1.0 RICH (COMMONLY TERMED "CHICKEN WIRE"). ROLL WIDTH SHALL BE 48-INCHES.
- WIRE MESH SHALL BE SECURED USING "900 RINGS" OR WIRE TIES AT 8-INCH CENTERS ALONG ALL JOINTS AND AT 2-INCH CENTERS ON ENDS OF BERMS.
- PIPE CONCENTRICALLY FLOW AROUND THE ENDS OF THE REINFORCED ROCK BERM SHALL BE 12" HIGHER THAN THE CENTER OF THE BERM.

REINFORCED ROCK BERM MAINTENANCE NOTES

- THE GESC MANAGER SHALL INSPECT REINFORCED ROCK BERM WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY.
- SEDIMENT ACCUMULATED UPSTREAM OF REINFORCED ROCK BERM SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF FILTER IS 3 INCHES OF THE CREST.
- REINFORCED ROCK BERM ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED.
- WHEN REINFORCED ROCK BERMS ARE REMOVED, ANY DISTURBED AREA SHALL BE SEED AND MALCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.



REINFORCED CHECK DAM INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF CHECK DAM
 - CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM)
 - LENGTH, "L", CREST LENGTH, "Lc", AND DEPTH, "D"
- CHECK DAMS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND-DISTURBING ACTIVITIES.
- REINFORCED CHECK DAMS, GABIONS SHALL HAVE GALVANIZED TWISTED WIRE MESH WITH A MAXIMUM OPENING DIMENSION OF 1-1/2" AND A MINIMUM WIRE THICKNESS OF 0.10". WIRE "900 RINGS" AT 4" SPACING OR OTHER EQUIVALENT WIRE SHALL BE USED AT ALL GABION SEAMS AND TO SECURE THE GABION TO THE ADJACENT GABION.
- RIPRAP UTILIZED FOR CHECK DAMS SHALL HAVE A D₅₀ MEDIAN STONE SIZE OF 6".
- THE CHECK DAM SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'-0".
- EROSION BLANKET SHALL BE PLACED IN THE REINFORCED CHECK DAM TRENCH EXTENDING A MINIMUM OF 1'-0" ON BOTH THE UPSTREAM AND DOWNSTREAM SIDES OF THE REINFORCED CHECK DAM.

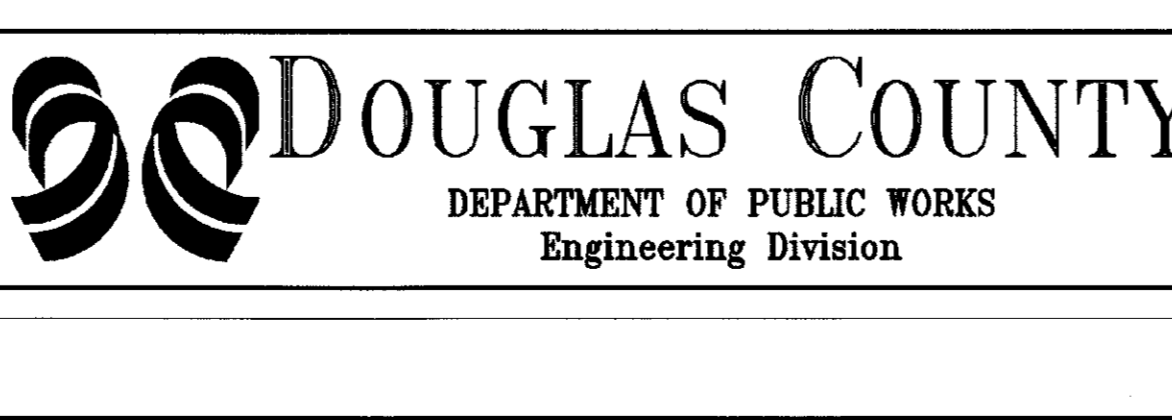
REINFORCED CHECK DAM MAINTENANCE NOTES

- THE GESC MANAGER SHALL INSPECT CHECK DAMS WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT AS NECESSARY.
- SEDIMENT ACCUMULATED UPSTREAM OF CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF CHECK DAM IS WITHIN 3" OF THE HEIGHT OF THE CREST.
- CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVER IS APPROVED BY THE COUNTY.
- WHEN CHECK DAMS ARE REMOVED, DISTURBED AREAS SHALL BE SEED AND MALCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.

Drawn by: BAB, Date: 07/2016, Project: CVS Filing No. 1 - First Street Improvements, Douglas County, Colorado, GESC Details - 2 of 3

Sheet Revisions

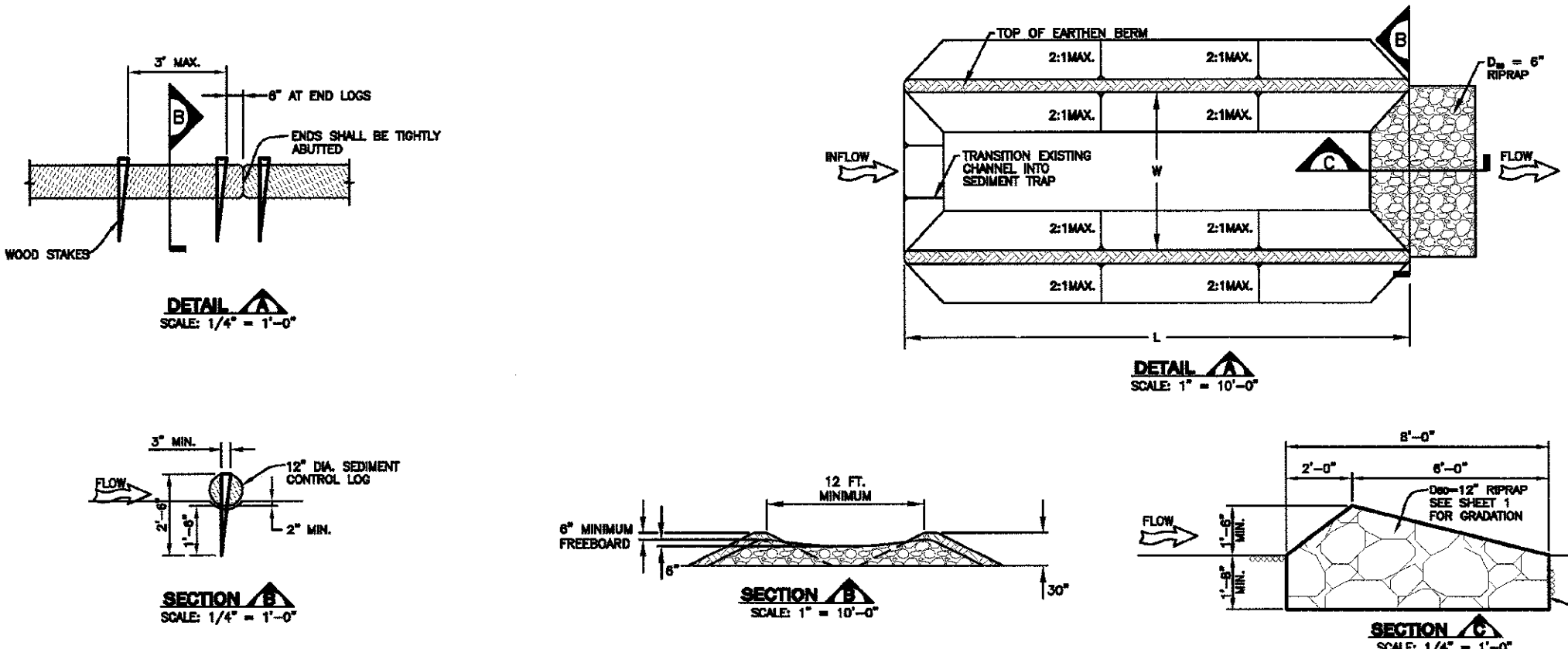
NOTE: SCALES SHOWN ARE FOR 24"x36" SHEETS; ADJUST ACCORDINGLY FOR 11"x17" SHEETS.



GESC GRADING, EROSION, AND SEDIMENT CONTROL

GESC PLAN STANDARD NOTES AND DETAILS

SHEET 2 OF 3



SEDIMENT CONTROL LOG INSTALLATION NOTES

- SEE PLAN VIEW FOR - LOCATION AND LENGTH OF SEDIMENT CONTROL LOG.
- SEDIMENT CONTROL LOGS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY LAND-DEVELOPING ACTIVITIES.
- SEDIMENT CONTROL LOGS SHALL BE CONSTRUCTED FROM MATERIAL FROM EXCAVATION, THE BEAM SHALL BE COMPACTED TO SOLE OF THE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
- NOT FOR USE IN CONCENTRATED FLOW AREAS.
- THE SEDIMENT CONTROL LOG SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 2".

SEDIMENT CONTROL LOG MAINTENANCE NOTES

- THE GESC MANAGER SHALL INSPECT SEDIMENT CONTROL LOGS DAILY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT UPSTREAM SEDIMENT AS NECESSARY.
- SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOGS SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT DEPTH IS WITHIN 8" HEIGHT OF THE CREST OF LOG.
- SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION, IF ANY DISTURBED AREA EXISTS AFTER REMOVAL, IT SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.

SEDIMENT TRAP INSTALLATION NOTES

- SEE PLAN VIEW FOR - LOCATION, LENGTH AND WIDTH OF SEDIMENT TRAP.
- SEDIMENT TRAPS INDICATED ON INITIAL GESC PLAN SHALL BE INSTALLED PRIOR TO ANY LAND-DEVELOPING ACTIVITIES.
- SEDIMENT TRAP BEAM SHALL BE CONSTRUCTED FROM MATERIAL FROM EXCAVATION, THE BEAM SHALL BE COMPACTED TO SOLE OF THE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
- RRPPAP OUTLET SHALL BE CONSTRUCTED WITH 12" RRPPAP WITH A MINIMUM OVERLAP OF 6".
- THE TOP OF THE EXISTING BEAM SHALL BE A MINIMUM OF 6" HIGHER THAN THE TOP OF THE RRPPAP OUTLET STRUCTURE.
- THE ENDS OF THE RRPPAP OUTLET STRUCTURE SHALL BE MINIMUM OF 6" HIGHER THAN THE CENTER OF THE OUTLET STRUCTURE.

SEDIMENT TRAP MAINTENANCE NOTES

- THE GESC MANAGER SHALL INSPECT SEDIMENT TRAPS WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT UPSTREAM SEDIMENT AS NECESSARY.
- SEDIMENT ACCUMULATED UPSTREAM OF RRPPAP SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT DEPTH IS WITHIN 8" HEIGHT OF THE CREST OF LOG.
- SEDIMENT TRAP SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND GRASS COVERAGE IS APPROVED BY THE COUNTY.
- WHEN SEDIMENT TRAPS ARE REMOVED THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED OR STABILIZED IN A MANNER APPROVED BY THE COUNTY.

SEEDING AND MULCHING INSTALLATION NOTES

- SEE PLAN VIEW FOR - AREA OF SEEDING AND MULCHING. - TYPE OF SEED MIX (PERMANENT, TEMPORARY, OR LOW-GROWTH).
- ALL AREAS OF EXPOSED SOIL FROM ROADWORK SHALL BE SEED OR MULCH AS SOON AS POSSIBLE. SEEDS AS RUSSETT OR MORGAN TRIPLE-CORNER PEGS, EUROPEAN BRANDED, JOHNSON GRASS, KWIP WEED AND LEAFY SPRINGS.
- THE FERTILIZER SHALL BE FURNISHED TO THE CONTRACTOR A WRITTEN STATEMENT CERTIFYING THAT THE SEED FURNISHED IS FROM A LOT THAT HAS BEEN TESTED BY A RECOGNIZED LABORATORY WHICH HAS DETERMINED THE PERCENTAGE OF SEEDS THAT WILL GERMINATE. SEEDS THAT DO NOT MEET THESE REQUIREMENTS SHALL BE PROVIDED TO DOUGLAS COUNTY FROM REJECT.
- DRILL SEEDING MIX SHALL CONFORM TO THE TABLE ON THE RIGHT:
- IF THE SEED AVAILABLE ON THE MARKET DOES NOT MEET THE MINIMUM PURITY AND GERMINATION REQUIREMENTS SPECIFIED, THE SUBCONTRACTOR MUST COMPENSATE FOR A LESSEY PROPORTION OF PURITY OR GERMINATION BY FURNISHING SUPPORTIVE ADDITIONAL SEED TO EQUAL THE SPECIFIED PRODUCT. THE TAGS FROM THE SEED MIXES MUST BE SUPPLIED TO CONTRACTOR AND FORWARDED TO THE DOUGLAS COUNTY SEED INSPECTION COUNTY FROM REJECT.
- THE FORMULA USED FOR DETERMINING THE QUANTITY OF PURE LIVE SEED (PLS) SHALL BE: (OUNDS OF SEED) X (PURITY) X (GERMINATION) = POUNDS OF PURE LIVE SEED (PLS).
- ALL AREAS TO BE SEEDED AND MULCHED SHALL HAVE NATIVE TOPSOIL OR APPROVED SOIL AMENDMENTS SPREAD TO A DEPTH OF AT LEAST 6 INCHES (EROSION CONTROL), HULL BOARDS AND OTHER COVERED AREAS SHALL BE LOOSENEED TO A DEPTH OF 6 INCHES PRIOR TO SPREADING TOPSOIL.
- SOIL IS TO BE THOROUGHLY LOOSENEED (TILLED) TO A DEPTH OF AT LEAST 6 INCHES PRIOR TO SEEDING. THE TOP 6 INCHES OF THE SEED BED SHALL BE FREE OF ROCKS GREATER THAN 4 INCHES AND SOIL CLOSER GREATER THAN 2 INCHES. SEEDING OVER ANY COMPACTED AREAS THAT HAVEN'T BEEN THOROUGHLY LOOSENEED SHALL BE REJECTED.
- SEED IS TO BE APPLIED USING A MECHANICAL DRILL TO A DEPTH OF 1/4" TO 3/8". ROW SPACING SHALL BE NO MORE THAN 8 INCHES. INITIAL SEED FOR EACH ROW SHALL CONSIST OF LOW-GROWTH STRAW, AT LEAST 50 PERCENT OF THE SEEDS BY WEIGHT SHALL BE 10 SEEDS OR MORE IN LENGTH. MULCH SHALL BE APPLIED AND MECHANICALLY INCORPORATED TO A DEPTH OF AT LEAST 2 INCHES. MULCH SHALL BE APPLIED AT A RATE OF 4000 LB. OF STRAW PER ACRE.
- IF THE PROMISE CONTRACTOR TO THE COUNTY THAT IT IS NOT POSSIBLE TO DRILL SEED, SEED IS TO BE UNIFORMELY BROADCAST AT TWO TIMES THE DRILLED RATE THEN LIGHTLY HARROWED TO PROVIDE A SEED DEPTH OF APPROXIMATELY 1/4" INCH, THEN ROLLED TO COMPACT, THEN MULCHED AS SPECIFIED ABOVE.
- SEEDING AND MULCHING SHALL BE COMPLETED WITHIN 30 DAYS OF INITIAL EXPOSURE OR 7 DAYS AFTER GRADING IS SUBSTANTIALLY COMPLETE IN A GIVEN AREA (AS DETERMINED BY THE COUNTY). THIS WILL REQUIRE MULTIPLE MOBILIZATIONS FOR SEEDING AND MULCHING.
- MULCH SHALL BE APPLIED WITHIN 24 HOURS OF SEEDING.
- TACKIFIER SHOULD BE UTILIZED TO HELP WITH DISPACEMENT.

SEEDING AND MULCHING MAINTENANCE NOTES

- SEEDS AND MULCHED AREAS SHALL BE INSPECTED FOR DEVELOPING COVERAGE MONTHLY FOR A PERIOD OF TWO YEARS FOLLOWING INITIAL SEEDING. REPAIRS AND RE-SEEDING AND MULCHING SHALL BE INITIALLY COMPLETED IN A GIVEN SEASON FOR ANY AREAS FAILING TO MEET THE FOLLOWING REQUIREMENTS:
- REQUIRED COVERAGE FOR PERMANENT, OPEN SPACE AND LOW GROWTH SEED MIXES SHALL BE DEFINED AS FOLLOWS:
 - THREE (3) PLANTS PER SQUARE FOOT WITH A MINIMUM HEIGHT OF 3 INCHES. THE 2 PLANTS PER SQUARE FOOT SHALL BE OF THE VARIETY AND SPECIES FOUND IN THE DOUGLAS COUNTY-APPROVED MIX.
 - NO BARE AREAS LARGER THAN 4 SQUARE FEET (TWO-FOOT BY TWO-FOOT OR EQUIVALENT).
 - FREE FROM INFESTATION OF NOXIOUS WEEDS IN ACCORDANCE WITH SECTION 8.4 OF THE GESC CRITERIA MANUAL.
- REQUIRED COVERAGE FOR TURF GRASS AREAS SHALL BE DEFINED AS FOLLOWS:
 - AT LEAST 80% VEGETATIVE COVER OF GRASS SPECIES PLANTED.
 - NO BARE AREAS LARGER THAN 4 SQUARE FEET (TWO-FOOT BY TWO-FOOT OR EQUIVALENT).
 - FREE OF DROED AREAS.
 - FREE FROM INFESTATION OF NOXIOUS WEEDS IN ACCORDANCE WITH SECTION 8.4 OF THE GESC CRITERIA MANUAL.
 - HELL AND GULLY EROSION SHALL BE FILLED WITH TOPSOIL PRIOR TO RESEEDING. THE RESEEDING METHOD SHALL BE APPROVED BY THE COUNTY.

DOUGLAS COUNTY PERMANENT DRILL SEEDING MIX

SPECIES	YARBEX	NOTES	S.L.M.M.	EXCHANGE OF BLESS FOR ACRE
BIG BLUESTEM	KAF	PNMS	10	1.1
YELLOW INDEGRASS	CHDYAK	PNMS	10	1
SMITHGRASS	BLACKWELL	PNMS	10	0.4
SIDEOTS GRAMA	VAUGHN	PNMS	10	0.8
WESTERN WHEATGRASS	ARRBA	PNCS	10	1.6
BLUE GRAMA	HACHTA	PNMS	10	0.3
THICKSKIN WHEATGRASS	CRTHNA	PNCS	10	1
FRANK SHANKER	GDOSH	PNMS	10	0.7
GREEN MIDDLEGRASS	LDORON	PNCS	10	1
SLIMMER WHEATGRASS	PRYOR	PNCS	5	0.8
STRAHMANK WHEATGRASS	SODAR	PNCS	5	0.8
TOTAL				9.2

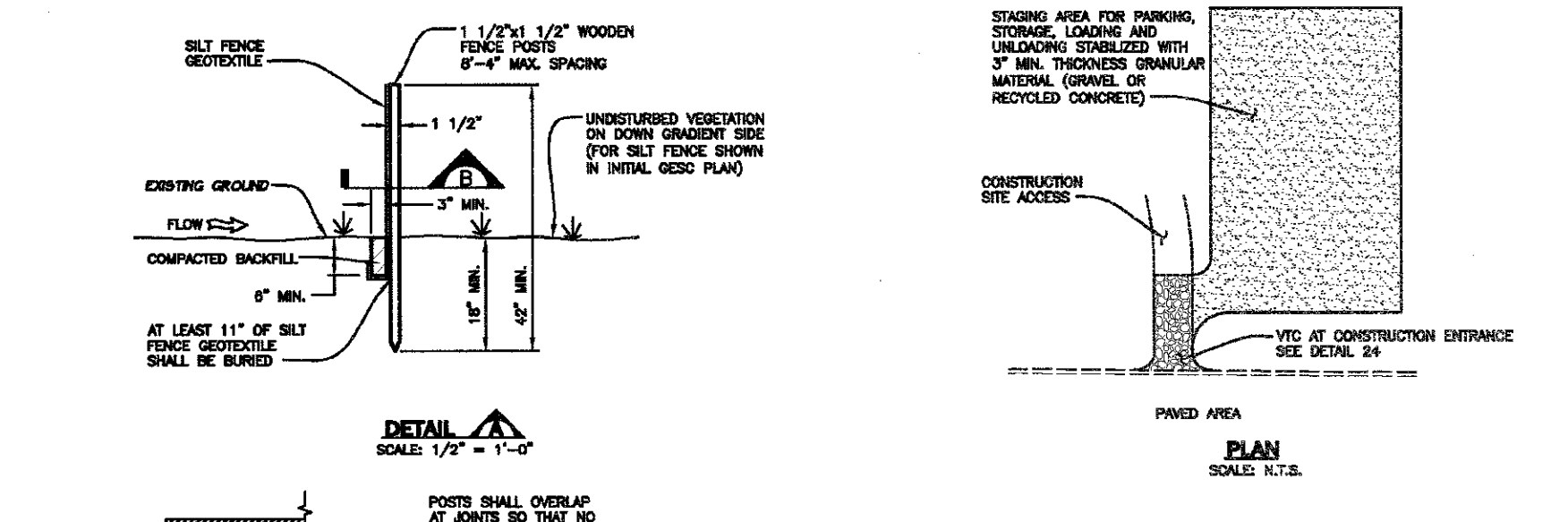
DOUGLAS COUNTY TEMPORARY DRILL SEEDING MIX

SPECIES	YARBEX	NOTES	S.L.M.M.	EXCHANGE OF BLESS FOR ACRE
SMOOTH BROMEGRASS	LINDOON	PNCS	30	3.9
INTERMEDIATE WHEATGRASS	OHIE	PNCS	30	4.5
PURSHOTT WHEATGRASS	LLWA	PNCS	30	4.2
ANNUAL RYEGRASS	N/A	ACR	10	0.8
TOTAL				13.4

DOUGLAS COUNTY LOW-GROWTH DRILL SEEDING MIX

SPECIES	YARBEX	NOTES	S.L.M.M.	EXCHANGE OF BLESS FOR ACRE
BUFFALOGRASS	TEXDCA	PNMS	20	3.2
BLUE GRAMA	HACHTA	PNMS	20	0.6
WESTERN WHEATGRASS	ARRBA	PNMS	20	3.2
SIDEOTS GRAMA	VAUGHN	PNMS	20	1.8
THICKSKIN WHEATGRASS	CRTHNA	PNCS	10	1
STRAHMANK WHEATGRASS	SODAR	PNCS	10	1.2
TOTAL				11.0

NOTES:
 P=PERMANENT
 A=ANNUAL
 H=HYBRID
 W=WHEAT
 N=NON-SEASON
 C=CRACK
 S=SEASON
 S=SEASON
 S=SEASON
 S=SEASON
 S=SEASON

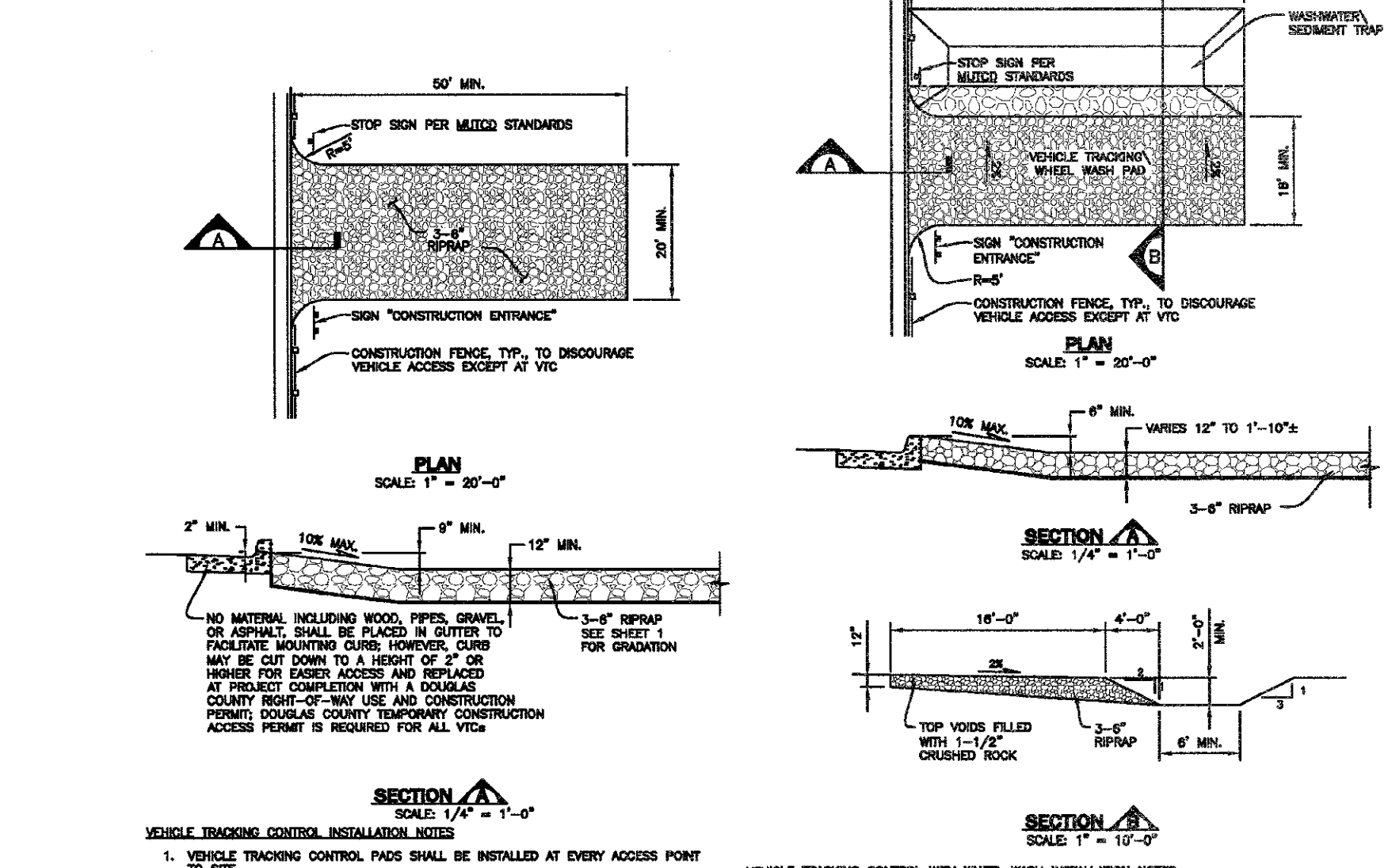


STABILIZED STAGING AREA INSTALLATION NOTES

- SEE PLAN VIEW FOR GENERAL LOCATION OF STAGING AREA. COORDINATOR MAY VERIFY LOCATION AND SIZE OF STABILIZED STAGING AREA WITH COUNTY APPROVAL.
- STABILIZED STAGING AREA SHALL BE LARGE ENOUGH TO FULLY CONTAIN FURNACE, STORAGE, AND UNLOADING AND LOADING OPERATIONS.
- IF REQUIRED BY THE COUNTY, SITE ACCESS ROADS SHALL BE ESTABLISHED IN THE SAME MANNER AS THE STAGING AREA.
- STAGING AREA SHALL BE STABILIZED PRIOR TO ANY OTHER OPERATIONS ON THE SITE.
- THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM OF 3" OF GRANULAR MATERIAL (GRAVEL OR RECYCLED CONCRETE).

STABILIZED STAGING AREA MAINTENANCE NOTES

- THE GESC MANAGER SHALL INSPECT THE STABILIZED STAGING AREA WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT UPSTREAM SEDIMENT AS NECESSARY.
- GRASS MAINTENANCE SHALL BE PROVIDED ADDITIONAL THICKNESS OF GRANULAR MATERIAL, IF ANY FURTHER OCCURS OR UNDERLYING SURFACES BECOMES EXPOSED.
- STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN FURNACE, STORAGE, AND UNLOADING AND LOADING OPERATIONS.
- ANY ACCUMULATED DIRT OR MUD SHALL BE REMOVED FROM THE SURFACE OF THE STABILIZED STAGING AREA.
- THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR IF APPROVED BY THE COUNTY, USED ON SITE AND THE AREA TOPSOILED, DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED.



TEMPORARY STREAM CROSSING INSTALLATION NOTES

- SEE PLAN VIEW FOR - LOCATION OF TEMPORARY STREAM CROSSING. - STREAM CROSSING TYPE (FORD OR CULVERT). - FOR FORD CROSSING: LENGTH, "L", CREST LENGTH, "LC", CROSSING HEIGHT, "H", DEPTH, "D", CULVERT DIAMETER, "CD", AND NUMBER, TYPE AND CLASS OR GRADE OF CULVERTS.
- TEMPORARY STREAM CROSSING DIMENSIONS, JOB AND NUMBER OF CULVERTS INDICATED FOR CULVERT CROSSING SHALL BE CONSIDERED MINIMUM DIMENSIONS. ENGINEER MAY ELECT TO INSTALL LARGER FACILITIES. ANY DAMAGE TO STREAM CROSSING OR EXISTING STREAM CHANNEL, DURING CONSTRUCTION OR FLOOD EVENTS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- SEE SHEET 1 FOR RRPPAP AND 1-1/2" CRUSHED ROCK.
- FOR A TEMPORARY STREAM CROSSING THAT WILL CARRY LOADS, THE TEMPORARY STREAM CROSSING MUST BE DESIGNED BY THE DESIGN ENGINEER.

TEMPORARY STREAM CROSSING MAINTENANCE NOTES

- THE GESC MANAGER SHALL INSPECT STREAM CROSSINGS WEEKLY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT UPSTREAM SEDIMENT AS NECESSARY.
- SEDIMENT ACCUMULATED UPSTREAM OF STREAM CROSSINGS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH UPSTREAM OF CROSSING IS WITHIN 6-INCHES OF THE CREST (FORD CROSSING) OR GREATER THAN AN AVERAGE DEPTH OF 18-INCHES (CULVERT CROSSING).
- STREAM CROSSINGS ARE TO REMAIN IN PLACE UNTIL NO LONGER NEEDED, BUT SHALL BE REMOVED PRIOR TO THE END OF CONSTRUCTION.
- WHEN STREAM CROSSINGS ARE REMOVED, THE DISTURBED AREA SHALL BE DRILL SEEDED AND CRIMP MULCHED AND COVERED WITH EROSION CONTROL BLANKET OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE COUNTY.



VEHICLE TRACKING CONTROL INSTALLATION NOTES

- VEHICLE TRACKING CONTROL PADS SHALL BE INSTALLED AT EVERY ACCESS POINT TO SITE.
- VEHICLE TRACKING CONTROL PADS SHALL CONSIST OF HARD, DENSE, DURABLE STONE, ANGLULAR IN SHAPE AND RESISTANT TO WEATHERING. ROUNDED STONE OR BOLLERS WILL NOT BE ACCEPTABLE. THE STONES SHALL BE 3" WITH A MAXIMUM SIZE OF 4". THE STONE SHALL HAVE A SPECIFIC GRAVITY OF AT LEAST 2.4. CONTROL OF GRADATION WILL BE BY VISUAL INSPECTIONS.
- ANY DAMAGED OR DIMAGED CURBS AND GUTTER AND SIDEWALK SHALL BE REPLACED BY POINTS.
- A DOUGLAS COUNTY TEMPORARY CONSTRUCTION ACCESS PERMIT IS REQUIRED FOR EACH ACCESS PERMIT.
- A STOP SIGN INSTALLED IN ACCORDANCE WITH THE MANUAL ON LANEWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL ON LANEWORK. THE STOP SIGN SHALL BE INSTALLED FOR BOTH TRAFFIC AT THE VTC.
- VEHICLE TRACKING CONTROL MAINTENANCE NOTES
 - GESC MANAGER SHALL INSPECT VEHICLE TRACKING CONTROL DAILY. GRAVEL SURFACE SHALL BE CLEAN AND LOOSE ENOUGH TO ROLL SLIGHTLY UNDER WHEEL LOADS AND CAUSE LOOSE GRAVEL TO PRODUCE MUD FROM TIRES. WHEN GRAVEL BECOMES COMPACTED OR FILLED WITH SEDIMENT SO THAT THE EFFECTIVENESS OF THE PAD IS DIMINISHED, CONTRACTOR SHALL REPAIR, TURN OVER, OR OTHERWISE LOOSEEN GRAVEL. PLACE ADDITIONAL NEW GRAVEL OR REPLACE WITH NEW GRAVEL AS NECESSARY TO RESTORE EFFECTIVENESS.
 - VEHICLE TRACKING CONTROL SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRAVEL MATERIAL, RECOVERED OR IF APPROVED BY THE COUNTY, USED ON SITE AND THE AREA TOPSOILED, DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED.

Sheet Revisions

NO.	DESCRIPTION	DATE
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NOTE: SCALES SHOWN ARE FOR 24"x36" SHEETS; ADJUST ACCORDINGLY FOR 11"x17" SHEETS.

DOUGLAS COUNTY
 DEPARTMENT OF PUBLIC WORKS
 Engineering Division

GESC GRADING, EROSION, AND SEDIMENT CONTROL

GESC PLAN STANDARD NOTES AND DETAILS
 SHEET 3 OF 3

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 Civil Engineers • Surveyors • Water Resource Engineers • Water & Wastewater Engineers
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CVS FILING NO. 1 - FIRST STREET IMPROVEMENTS
 DOUGLAS COUNTY, COLORADO
 GESC DETAILS - 3 OF 3

PROJ. NO.: RIM
PROJ. ASSOC.: BRB
DATE: 07/2016

10 OF 10
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