

# GRANDVIEW RESERVE FILING NO. 1

GRANDVIEW RESERVE FILING NO. 1, LOCATED IN THE SOUTH HALF OF SECTION 21 & 22, THE NORTH HALF OF SECTION 28 & 27, TOWNSHIP 12 SOUTH,  
RANGE 64 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASO COUNTY, STATE OF COLORADO,  
NEC OF LONDONBERRY DRIVE & EASTONVILLE ROAD, PEYTON COLORADO

## EARLY GRADING & EROSION CONTROL PLANS

### EL PASO COUNTY FILING NO: PUDSP-21-10

#### PROJECT CONTACTS

##### PROPERTY OWNER – DEVELOPER

4 SITE INVESTMENTS, LLC  
1271 KELLY JOHNSON BLVD., SUITE 100  
COLORADO SPRINGS, CO 80920  
TEL: (719) 499-8416  
CONTACT: PAUL HOWARD  
EMAIL: PAULINFINITY@MSK.COM

##### APPLICANT

HR GREEN DEVELOPMENT, LLC  
1975 RESEARCH PARKWAY, SUITE 230  
COLORADO SPRINGS, CO 80920  
TEL: (720) 602-4841  
CONTACT: PHIL STUEPFERT  
EMAIL: PSTUEPFERT@HGREEN.COM

##### CIVIL ENGINEER

GALLOWAY & CO., INC.  
1155 KELLY JOHNSON BLVD., SUITE 305  
COLORADO SPRINGS, CO 80920  
TEL: (719) 900-7220  
CONTACT: GRANT DENNIS, P.E.  
EMAIL: GRANTDENNIS@GALLOWAYUS.COM

##### LANDSCAPE ARCHITECT

HR GREEN DEVELOPMENT, LLC  
1975 RESEARCH PARKWAY, SUITE 230  
COLORADO SPRINGS, CO 80920  
TEL: (719) 300-4140  
CONTACT: PHIL STUEPFERT  
EMAIL: PSTUEPFERT@HGREEN.COM

##### SURVEYOR

EDWARD-JAMES SURVEYING, INC.  
1005 ELATION DRIVE  
COLORADO SPRINGS, CO 80907  
TEL: 719-576-1216

##### TRAFFIC ENGINEER

LSC TRANSPORTATION CONSULTANTS, INC.  
545 EAST PIKES PEAK AVENUE, SUITE 210  
COLORADO SPRINGS, CO 80903  
TEL: (719) 633-2868  
CONTACT: KRISTIN DAY FERRIN, P.E.  
EMAIL: KDFERRIN@LSCTRANS.COM

##### GEOTECHNICAL ENGINEER

CTL THOMPSON INC.  
5170 MARK DARLING BLVD  
COLORADO SPRINGS, CO 80918  
TEL: (719) 528-8300  
CONTACT: JEFFREY M. JONES P.E.

#### LIST OF ABBREVIATIONS

SHT – SHEET  
Δ – DEFLECTION ANGLE  
L – LENGTH  
R – RADIUS  
CB – CHORD BEARING  
C – CHORD LENGTH  
N – NORTH/NORTHING  
W – WEST  
E – EAST/EASTING  
S – SOUTH  
DET – DETAIL  
EX – EXISTING  
W/ – WITH  
PC – POINT OF CURVATURE/PORTLAND CEMENT  
WVF – WELDED WIRE FABRIC  
VERT – VERTICAL  
OC – ON CENTER  
FDC – FIRE DEPARTMENT CONNECTION  
CT – COURT  
DR – DRIVE  
TYP – TYPICAL  
REC – RECEPTION NUMBER  
Ø, DIA – DIAMETER  
PT – POINT OF TANGENCY  
MIN – MINIMUM  
MAX – MAXIMUM  
HDPE – HIGH DENSITY POLYETHYLENE

#### EL PASO COUNTY & UTILITY CONTACTS

##### EL PASO COUNTY – PLANNING REVIEW

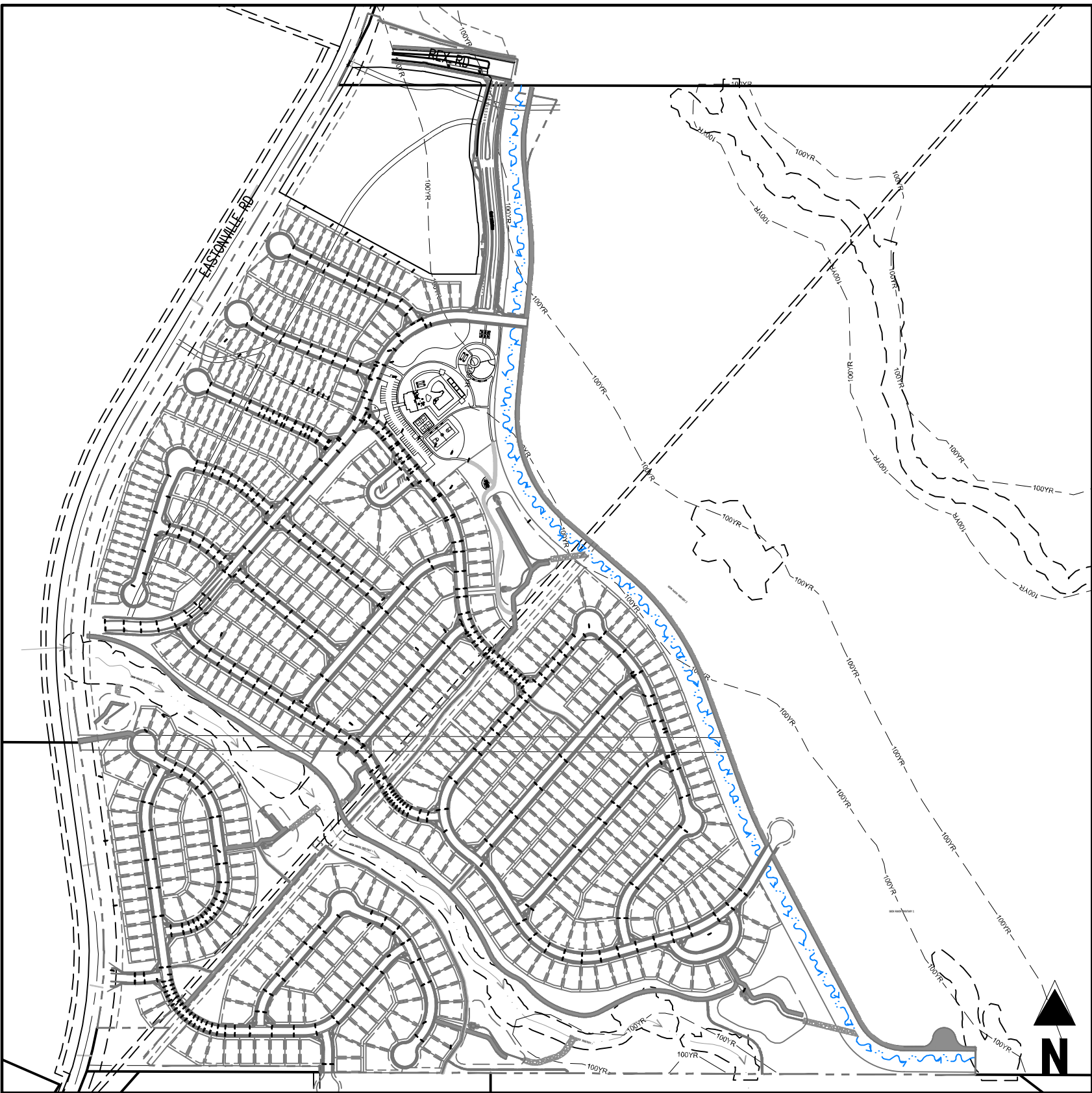
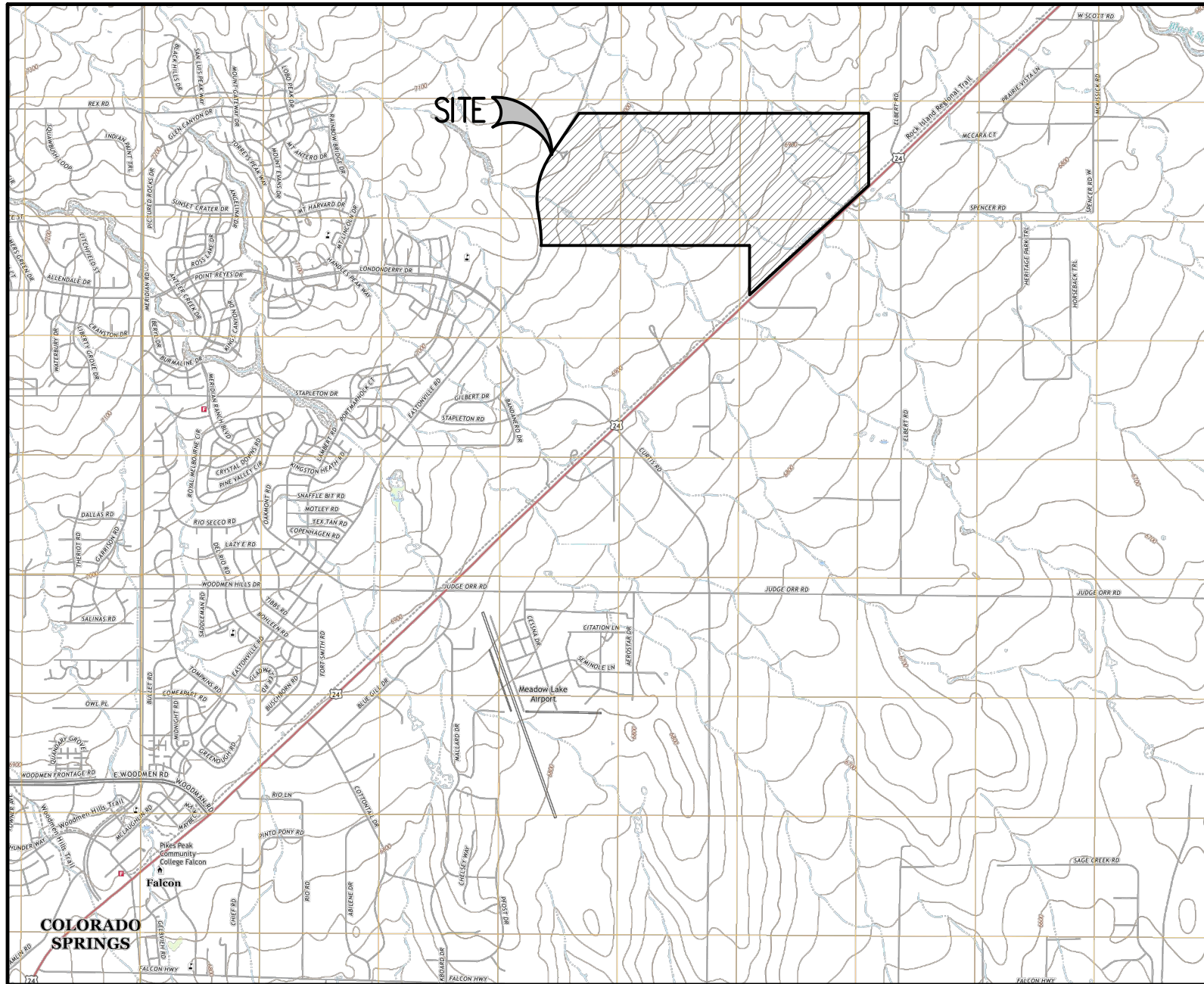
PLANNING AND DEVELOPMENT  
2880 INTERNATIONAL CIRCLE, SUITE 110  
COLORADO SPRINGS, CO 80910  
TEL: (719) 520-6300  
CONTACT: –  
EMAIL: –

##### EL PASO COUNTY – ENGINEERING REVIEW

PLANNING AND DEVELOPMENT  
2880 INTERNATIONAL CIRCLE, SUITE 110  
COLORADO SPRINGS, CO 80910  
TEL: (719) 520-6300  
CONTACT: –  
EMAIL: –

##### FIRE DEPARTMENT

FALCON FIRE DISTRICT  
7030 OLD MERIDIAN ROAD  
FLACON, CO 80831  
TEL: (719) 485-4050  
CONTACT: TRENT HARMIG



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#### LEGAL DESCRIPTION

GRANDVIEW RESERVE FILING NO. 1, A TRACT OF LAND BEING A PORTION OF SECTION 21, AND A PORTION OF THE NORTH HALF OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO.

#### BENCHMARK

NCS BENCHMARK F 24  
A STANDARD DISK, STAMPED F 24 1929 AND SET IN THE TOP OF A CONCRETE POST PROJECTING ABOUT 6 INCHES ABOVE GROUND, ALONG THE CHICAGO, ROCK ISLAND AND PACIFIC RAILROAD, 52 FEET NORTHWEST OF THE CENTERLINE OF U.S. HIGHWAY 24, 48 FEET SOUTHEAST OF THE CENTERLINE OF THE TRACK.  
NAVD88 ELEVATION = 6866.33

#### BASIS OF BEARING

THE EAST LINE OF SECTION 21, TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO, BEING MONUMENTED AT THE SOUTHERLY END OF A 3'-3/4" ALUMINUM SURVEYORS CAP STAMPED ACCORDINGLY, PLS 30087, AND BEING MONUMENTED AT THE NORTHERLY END BY A 3/4" ALUMINUM SURVEYORS CAP STAMPED ACCORDINGLY, PLS 30087, BEING ASSUMED TO BEAR N00°52'26"W, A DISTANCE OF 5290.17 FEET.

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

#### CAUTION – NOTICE TO CONTRACTOR

- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT. PRIOR TO CONSTRUCTION, REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



#### 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 MANUAL, 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 DIRECTORS DISCRETION.

JOSHUA PALMER, P.E.  
INTERIM COUNTY ENGINEER / EGM ADMINISTRATOR

DATE

#### OWNER'S STATEMENT

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

PAUL HOWARD  
4 SITE INVESTMENTS, LLC

DATE

#### 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 AN NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLAN.

Ronald G. Dennis  
RONALD G. DENNIS, COLORADO P.E. NO. 0051622

09/12/2022  
DATE



#### COPYRIGHT

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PHONE: 719.622.6222  
FAX: 844.273.1057

EARLY GRADING & EROSION CONTROL PLANS  
GRANDVIEW RESERVE FILING NO. 1  
FOR  
HR GREEN

EASTONVILLE RD  
EL PASO COUNTY, PEYTON, CO 80831

#	Date	Issue / Description	Init.
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Project No: HRC01  
Drawn By: JDP  
Checked By: RGD  
Date: 09/09/2022

COVER SHEET

G0.0  
Sheet 1 of 16



1. 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 OFFSITE WATERS, INCLUDING WETLANDS.

1. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE MUST BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFFSITE WATERS, INCLUDING METEANS.
2. 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 STORM DRAINAGE CRITERIA MANUAL AND THE EROSION CONTROL CRITERIA MANUAL. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
3. 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.
4. 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 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 STAFF.
5. 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.
6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ENSURE THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES IS NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO EROSION CONTROL MEASURES OR TEMPORARY MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN PRIOR TO IMPLEMENTATION.
7. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR MORE THAN 14 DAYS, AN AREA THAT IS GOING TO REMAIN IN AN INTERM STATE FOR LONGER THAN 60 DAYS SHALL ALSO BE STABILIZED.
8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETED AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT 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.
9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DEFINED ON THE APPROVED PLAN. CONSTRUCTION CHANGES THAT EFFECT THE HYDROLOGY OR HYDRAULICS OF A PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECOM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
10. EARTH DISTURBANCES 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 GROUND DISTURBANCE IS LIMITED TO THE SHORTEST PRACTICAL PERIOD OF THE PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATER'S OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
11. COMPLETION OF SOIL MUST BE PRELIMINARY 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.
12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE STORAGE OF CONSTRUCTION MATERIALS OR EQUIPMENT SHALL BE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
13. 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.
14. DURING DETERMINING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED TO STATE WATERS OR TO THE GULF OF MEXICO IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DETERMINING PERMIT IS IN PLACE.
15. EROSION CONTROL, BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL, IN ACCORDANCE WITH LOCAL STATE AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIALS, WASTE OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
17. WASTE MATERIALS SHALL NOT TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED ENGINEERING IF DENSED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
19. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
20. 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 MANNER. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
21. 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 ECOM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIFIC CONDITIONS AND MONITORING MAY BE REQUIRED.
22. 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.
23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
24. OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE COLORADO WATER QUALITY CONTROL ACT (TITLE 25, ARTICLE 6, C.R.S.) AND THE CLEAN WATER ACT (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE EROSION CONTROL CRITERIA MANUAL, THE LAND DEVELOPMENT CODE, AND VOLUME II AND THE ECOM APPENDIX 1. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE, ETC.). ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS. CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
26. PRIOR TO ACTUAL CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
27. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
28. THE SOILS REPORT, TITLED "PRELIMINARY GEOTECHNICAL INVESTIGATION GRANDVIEW RESERVE, EASTON ROAD AND U.S. HIGHWAY 24 FALCON, COLORADO" FOR THIS SITE, DATED 10/24/2019, AND THE SOILS REPORT, TITLED "PRELIMINARY GEOTECHNICAL INVESTIGATION GRANDVIEW RESERVE, EASTON ROAD AND U.S. HIGHWAY 24 FALCON, COLORADO" FOR THIS SITE, DATED 10/24/2020, SHALL BE CONSIDERED A PART OF THESE PLANS.

29. 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

1. SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHUTES, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN TWENTY-ONE (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 UNDISTURBED FOR MORE THAN 21 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 SEEDDED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMPs SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED.
2. CONSTRUCTION FENCE AND SILT FENCE ARE OFFSET FOR CLARITY. CONTRACTOR TO ENSURE BMPs ARE PLACED DOWNSTREAM OF DISTURBED AREAS TO PREVENT SEDIMENT FROM LEAVING THE SITE.
3. EASTONVILLE ROAD AND REX ROAD SHALL BE STREET SWEEP AND INSPECTED ON A REGULAR BASIS DURING CONSTRUCTION.
4. NO NOTABLE EXISTING VEGETATION EXISTS ON THE SITE, APART FROM NATIVE GRASSES AND WEEDS. THE EXISTING SOIL TYPES WITHIN THE PROPERTY CONSISTS OF COLLUVIAL GRAVELLY SAND/ LOAM, BLAKELAND-FLUVENTIC/CLAY HAPLOKALIS, AND BLAKELAND LOAMY SAND. ALL SOILS ARE CLASSIFIED AS A "C" OR "D" SOIL GROUP, AS IS DETERMINED BY THE NRCS WEB SOIL SURVEY FOR EL PASO COUNTY AREA.

- SOL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN TWENTY-ONE (21) CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPIES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN NINETY DAYS SHALL ALSO BE MULCHED WITHIN TWENTY DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SEEDDED. ALL TEMPORARY SOL EROSION CONTROL MEASURES AND BMPs SHALL BE MAINTAINED UNTIL PERMANENT SOL EROSION CONTROL MEASURES ARE IMPLEMENTED.
- CONSTRUCTION FENCE AND SILT FENCE ARE OFFSET FOR CLARITY. CONTRACTOR TO ENSURE BMPs ARE PLACED DOWNSTREAM OF DISTURBED AREAS TO PREVENT SEDIMENT FROM LEAVING THE SITE.
- EASTONVILLE ROAD AND REAR ROAD SHALL BE STREET SEPTED AND INSPECTED ON A REGULAR BASIS DURING CONSTRUCTION.
- NO NOTABLE EXISTING VEGETATION EXISTS ON THE SITE, APART FROM NATIVE GRASSES AND WEEDS. THE EXISTING SOIL TYPES WITHIN THE PROPERTY CONSISTS OF COLLUVIUM GRAVELLY SANDY LOAM, BLACKLAND-FLUVOQUINCEUS HAPLODOLLOIDS, AND BLACKLAND LOAMY SAND. ALL SOILS ARE REFERRED TO AS THE "SANDY SOIL GROUP OF A" AS DETERMINED BY THE NRCS WEB SOIL SURVEY FOR EL PASO COUNTY.



09/12/2022

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EARLY GRADING & EROSION CONTROL PLANS  
GRANDVIEW RESERVE FILING NO. 1

HR GREEN

EASTONVILLE RD  
EL PASO COUNTY, PEYTON, CO 80831

[illegible]

Project No:	HRG01
Drawn By:	JDP
Checked By:	RGD
Date:	09/09/2022

## NOTES

# G0.1





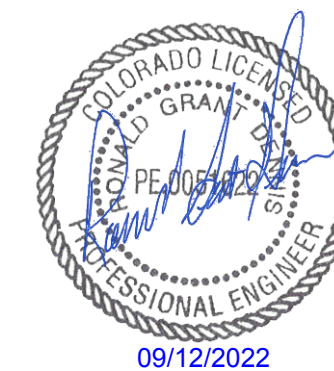












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EARLY GRADING & EROSION CONTROL PLANS  
GRANDVIEW RESERVE FILING NO. 1

FOR  
HR GREEN

EASTONVILLE RD  
EL PASO COUNTY, PEYTON, CO 80831

[illegible]

Project No:	HRG01
Drawn By:	JDF
Checked By:	RGE
Date:	09/09/2022

## GRADING & EROSION CONTROL PLAN

## G2.1

Sheet 6 of 16









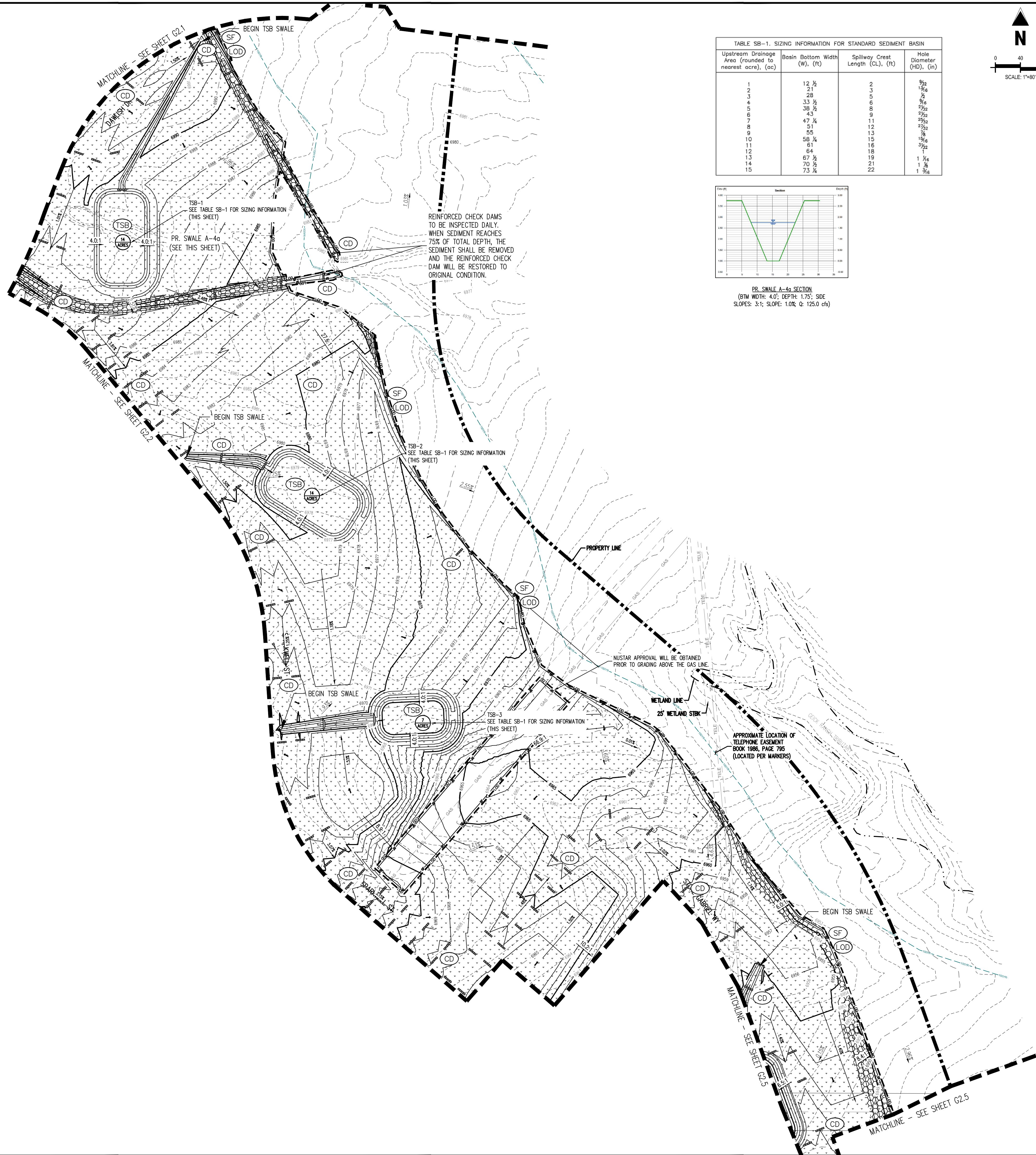
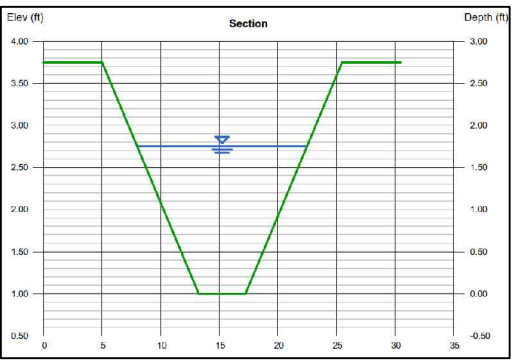
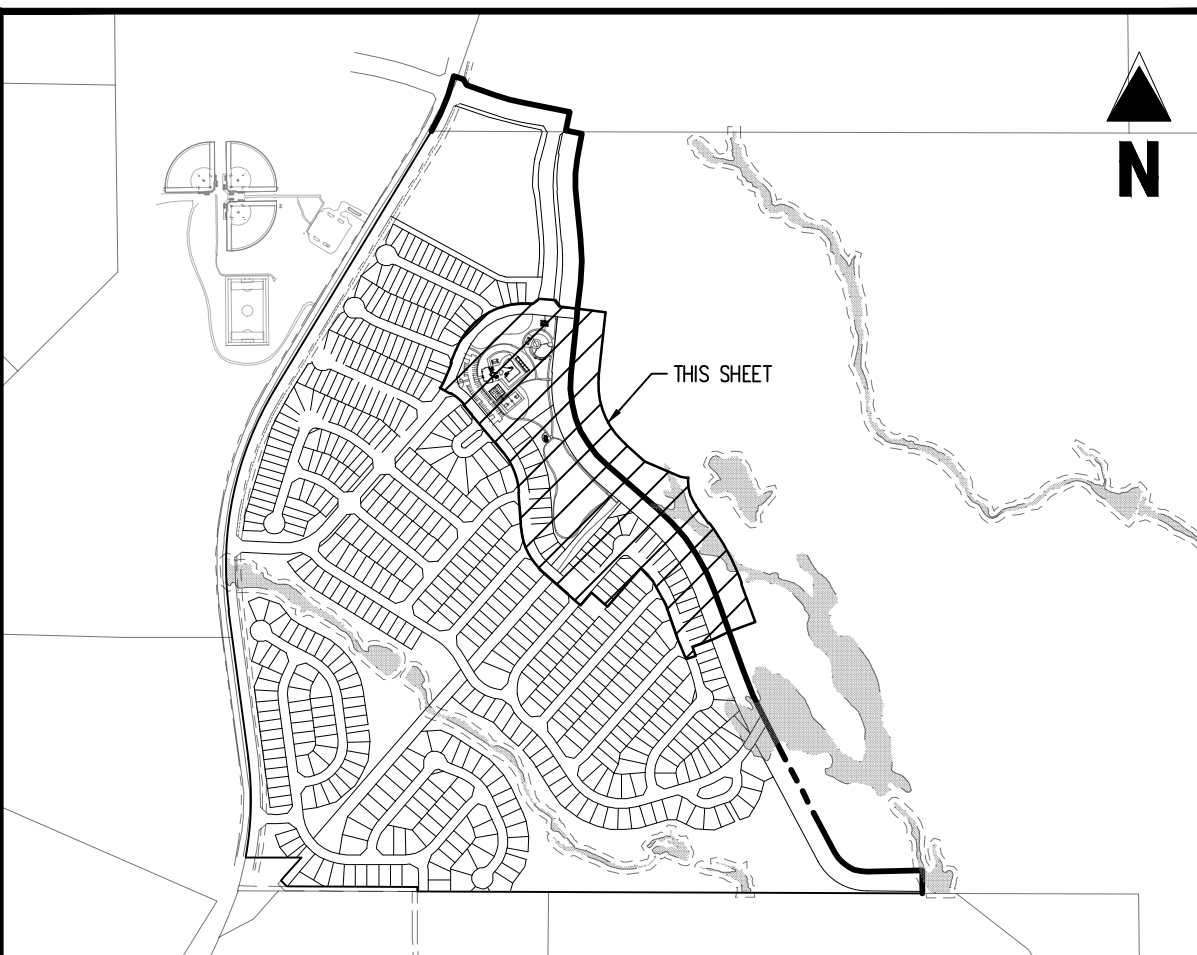
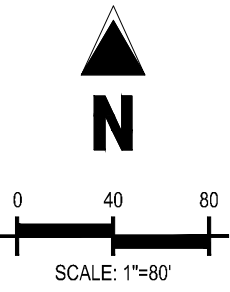


TABLE SB-1. SIZING INFORMATION FOR STANDARD SEDIMENT BASIN			
Upstream Drainage Area (rounded to nearest acre), (ac)	Basin Bottom Width (W), (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (HD), (in)
1	12 1/2	2	3/8
2	21	3	1/2
3	28	5	5/8
4	33 1/2	6	1
5	38 1/2	8	1 1/8
6	43	9	1 1/4
7	47 1/4	11	1 3/8
8	51	12	1 3/4
9	55	13	1 7/8
10	58 1/4	15	2
11	61	16	2 1/8
12	64	18	2 1/4
13	67 1/2	19	2 3/8
14	70 1/2	21	2 1/2
15	73 1/4	22	2 7/8



PR. SWALE A-4a SECTION  
(BTM WIDTH: 4.0'; DEPTH: 1.75'; SIDE SLOPES: 3:1; SLOPE: 1.0%; Q: 125.0 cfs)



KEY MAP SCALE: (1"=2,000')

LEGEND	
---	EXISTING PROPERTY LINE
---	ADJACENT PROPERTY LINE
---	EXISTING BUFFER
---	SECTION LINE
--- TELE --- TELE	EXISTING TELEPHONE LINE
---	EXISTING GAS LINE
---	EXISTING OVERHEAD ELECTRIC LINE
---	EXISTING FENCE LINE
---	EXISTING MINOR CONTOUR
---	EXISTING MAJOR CONTOUR
---	PROPOSED MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	EXISTING SLOPE (PERCENT)
---	EXISTING SLOPE (RISE:RUN)
---	PROPOSED SLOPE (PERCENT)
---	PROPOSED SLOPE (RISE:RUN)
+	EXISTING WETLANDS
---	EXISTING LIMITS OF WETLAND
---	EXISTING WETLAND SETBACK
---	100-YEAR WATER SURFACE ELEVATION AND FLOODPLAIN

EROSION CONTROL LEGEND	
---	(LOD) LIMITS OF DISTURBANCE & CONSTRUCTION SITE BOUNDARY
---	(SF) SILT FENCE
---	(CF) CONSTRUCTION / SAFETY FENCE
---	(SP) STOCKPILE PROTECTION
---	(TCB) TEMPORARY COMPACTED BERM
---	(SCL) SEDIMENT CONTROL LOG
---	(TSD) TEMPORARY SLOPE DRAIN
---	(VTC) VEHICLE TRACKING CONTROL
---	(SSA) STABILIZED STAGING AREA
---	(SSP) STABILIZED STOCK PILE
---	(RR) RIP RAP
---	(ECB) EROSION CONTROL BLANKET
---	(SM) SEEDING AND MULCHING
---	(PT) PORTABLE TOILET
---	(WP) WASHOUT POSTING
---	(RS) ROCK SOCKS
---	(PO) SITE POSTING (CONTRACTS AND PERMITS)
---	(TSB) TEMPORARY SEDIMENT BASIN
---	(CWA) CONCRETE WASHOUT AREA
---	(CD) CHECK DAM
---	FLOW ARROW

EROSION CONTROL PHASING SCHEDULE	
PHASE	DESCRIPTION
INITIAL	INSTALL SILT FENCE, ALL INLET PROTECTION MEASURES ON EXISTING INLETS, AND CURB SOCKS ALONG BENT GRASS MEADOWS DRIVE
INTERM	INSTALL TEMPORARY SEDIMENT BASIN, STABILIZED STAGING AREA, VEHICLE TRACKING CONTROL AT ENTRANCES, CONCRETE WASHOUT AREA, THEN OVERLOT GRADE THE ENTIRE PROJECT SITE AS SHOWN ON PLAN VIEW, AND INSTALL CHECK DAMS ALONG THE PROPOSED SWALE, AND STRAW BALE BARRIERS ALONG INTERNAL ROADWAYS
FINAL	FINAL EROSION CONTROL MEASURES TO BE PROVIDED ON FINAL GRADING & EROSION CONTROL PLAN

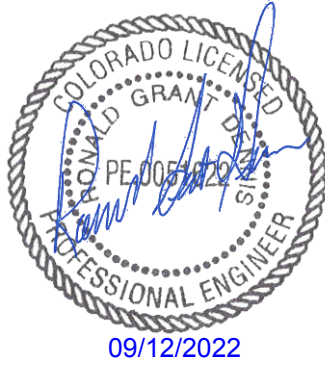
CAUTION - NOTICE TO CONTRACTOR

- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE FIELD LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



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EARLY GRADING & EROSION CONTROL PLANS  
GRANDVIEW RESERVE FILING NO. 1  
FOR  
HR GREEN

EASTONVILLE RD  
EL PASO COUNTY, PEYTON, CO 80831

#	Date	Issue / Description	Init.
1			
2			
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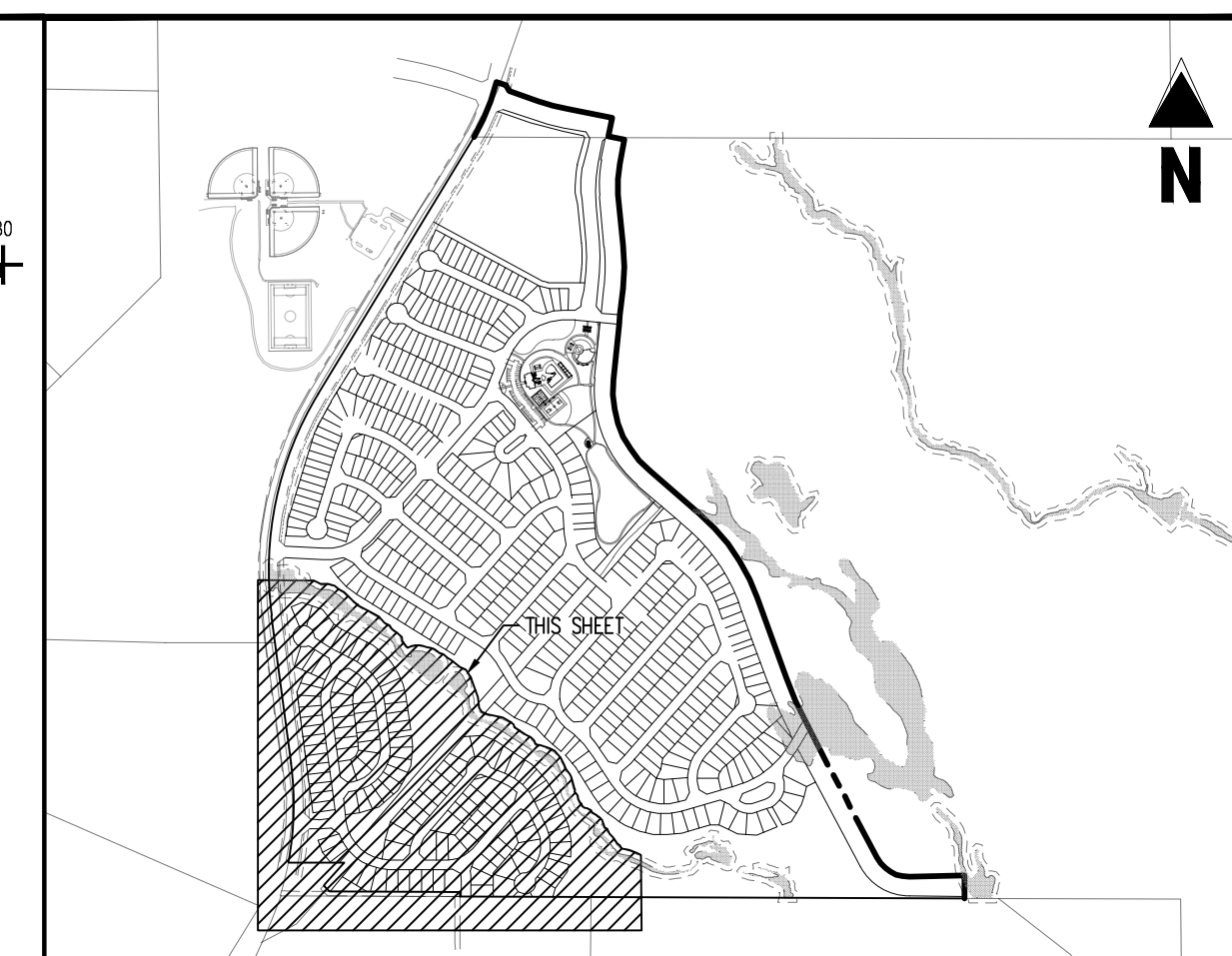
Project No: HRG01  
Drawn By: JDP  
Checked By: RGD  
Date: 09/09/2022

GRADING & EROSION  
CONTROL PLAN

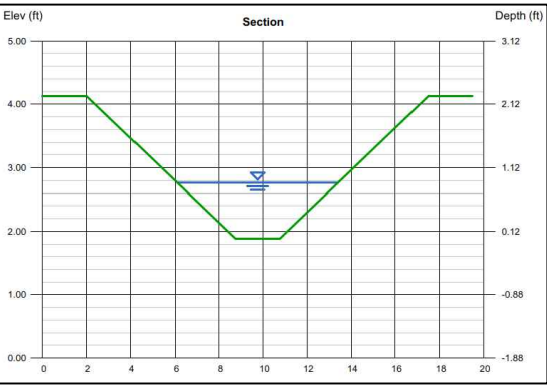
G2.3

Sheet 8 of 16





Upstream Drainage Area (rounded to nearest acre), (ac)	Basin Bottom Width (W), (ft)	Spillway Crest Length (CL), (ft)	Hole Diameter (HD), (in)
1	12 $\frac{1}{2}$	2	$\frac{9}{32}$
2	21	3	$\frac{1}{16}$
3	28	5	$\frac{1}{8}$
4	33 $\frac{1}{2}$	6	$\frac{9}{16}$
5	38 $\frac{1}{2}$	8	$\frac{2}{32}$
6	43	9	$\frac{2}{32}$
7	47 $\frac{1}{4}$	11	$\frac{2}{32}$
8	51 $\frac{1}{2}$	12	$\frac{3}{32}$
9	55	13	$\frac{3}{32}$
10	58 $\frac{1}{4}$	15	$\frac{1}{16}$
11	61 $\frac{1}{2}$	16	$\frac{1}{8}$
12	64	18	$\frac{1}{4}$
13	67 $\frac{1}{2}$	21	$\frac{1}{8}$
14	70 $\frac{1}{2}$	22	$\frac{1}{8}$
15	73 $\frac{1}{4}$	21	$\frac{1}{16}$



PR. SWALE OS-1 SECTION  
(BTM WIDTH: 2.0'; DEPTH: 0.88'; SIDE  
SLOPES: 3:1; SLOPE: 0.78%; Q: 8.7 cfs)

**KEY MAP SCALE: (1"=2,000')**

## LEGEND

- 
- Diagram illustrating the Wetland Buffers and Section Line. The diagram shows a series of horizontal lines representing different boundaries and features:
- EXISTING PROPERTY LINE
  - ADJACENT PROPERTY LINE
  - EXISTING BUFFER
  - SECTION LINE
  - EXISTING TELEPHONE LINE (marked with TELE)
  - EXISTING GAS LINE (marked with GAS)
  - EXISTING OVERHEAD ELECTRIC LINE (marked with OH)
  - EXISTING FENCE LINE (marked with X)
  - EXISTING MINOR CONTOUR (6973)
  - EXISTING MAJOR CONTOUR (6970)
  - PROPOSED MAJOR CONTOUR (6970)
  - PROPOSED MINOR CONTOUR (6973)
  - EXISTING SLOPE (PERCENT) (2.00%)
  - EXISTING SLOPE (RISE:RUN) (4:1)
  - PROPOSED SLOPE (PERCENT) (2.00%)
  - PROPOSED SLOPE (RISE:RUN) (4:1)
  - EXISTING WETLANDS (indicated by + symbols)
  - EXISTING LIMITS OF WETLAND
  - EXISTING WETLAND SETBACK (100ft)
  - 100-YEAR WATER SURFACE ELEVATION AND FLOODPLAIN (100ft)

### EROSION CONTROL LEGEND

- |  |       |  |
|--|-------|--|
|  | (LOD) | LIMITS OF DISTURBANCE & CONSTRUCTION SITE BOUNDARY |
|  | (SF)  | SILT FENCE   |
|  | (CF)  | SEDIMENTATION/EROSION CONTROL FENCE                |
|  | (TCB) | TEMPORARY PAVED/GRAVELLED BERM                     |
|  | (SCL) | SEDIMENTATION/GRAVELLED BERM                       |
|  | (TSD) | SEDIMENTATION/GRASS DRAIN                          |
|  | (VTC) | TEMPORARY EROSION CONTROL                          |
|  | (SSA) | VEHICLE TRACKING CONTROL                           |
|  | (SSP) | STABILIZED STAGING AREA                            |
|  | (RR)  | STABILIZED STOCK PILE                              |
|  | (ECB) | EROSION CONTROL BLANKET                            |
|  | (SM)  | EROSION CONTROL BLANKET SEEDING AND MULCHING       |
|  | (PT)  | SEEDING AND MULCHING                               |
|  | (PT)  | PORTABLE TOILET                                    |
|  | (WP)  | WASHOUT POSTING                                    |
|  | (RS)  | ROCK SOCKS   |
|  | (PO)  | SITE POSTING (CONTRACTS AND PERMITS)               |
|  | (TSB) | TEMPORARY SEDIMENT BASIN                           |
|  | (CWA) | CONCRETE WASHOUT AREA                              |
|  | (CD)  | CHECK DAM  |
|  |       | FLOW ARROW   |

<u>EROSION CONTROL PHASING SCHEDULE</u>	
PHASE	DESCRIPTION
INITIAL	INSTALL SILT FENCE, ALL INLET PROTECTION MEASURES ON EXISTING INLETS, AND CURB SOCKS ALONG BENT GRASS MEADOWS DRIVE
INTERIM	INSTALL TEMPORARY SEDIMENT BASIN, STABILIZED STAGING AREA, VEHICLE TRACKING CONTROL AT ENTRANCES, CONCRETE WASHOUT AREA, THEN OVERLAP GRADE THE ENTIRE PROJECT SITE AS SHOWN ON PLAN NEW, AND INSTALL CHECK DAMS ALONG THE PROPOSED SWALE, AND STRAW BALE BARRIERS ALONG INTERNAL ROADWAYS
FINAL	FINAL EROSION CONTROL MEASURES TO BE PROVIDED ON FINAL GRADING & EROSION CONTROL PLAN

**CAUTION - NOTICE TO CONTRACTOR**

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EL PASO COUNTY, PEYTON, CO 80831

[illegible]

Project No:	HRG01
Drawn By:	JDP
Checked By:	RGD
Date:	09/09/2022

## GRADING & EROSION CONTROL PLAN

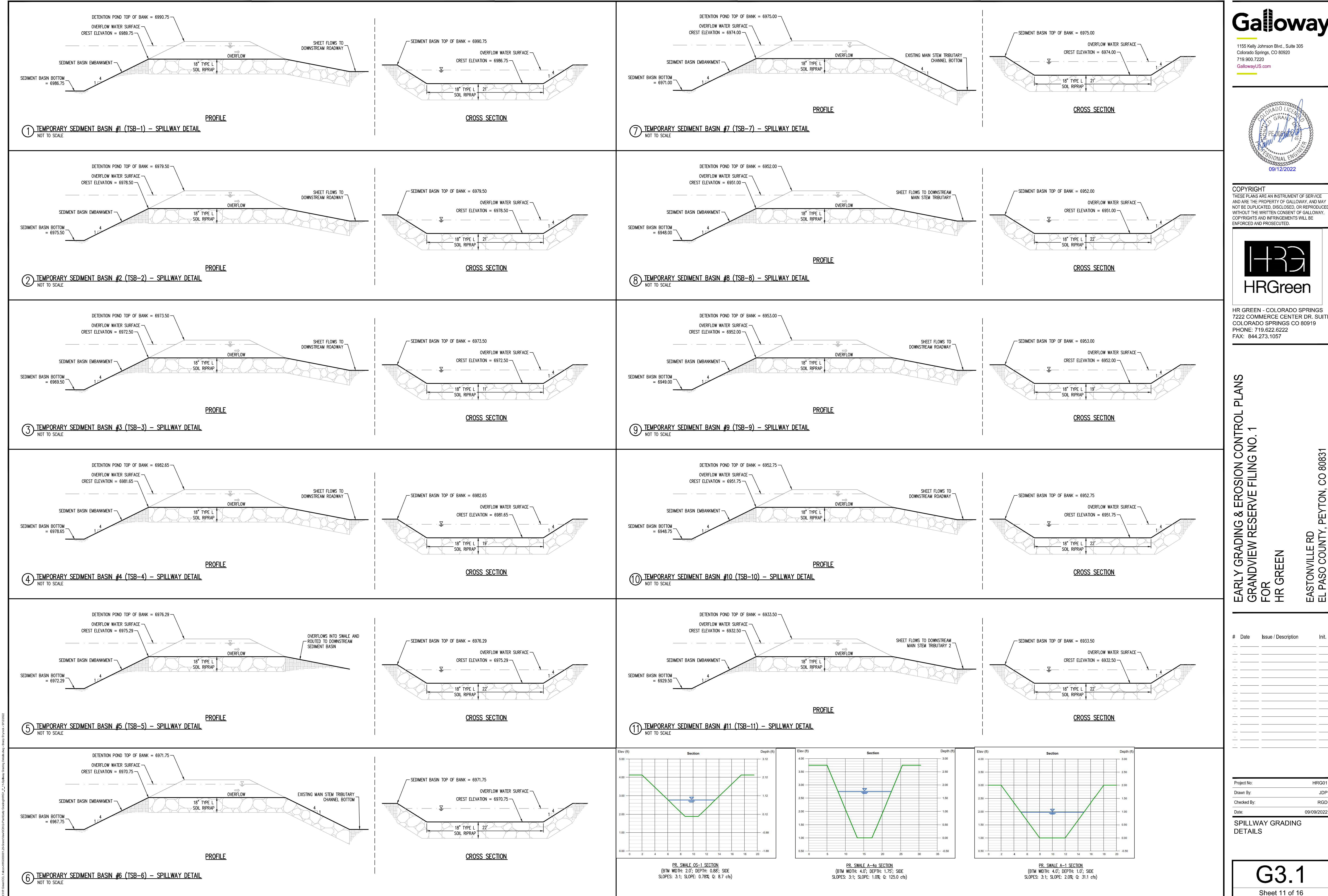
## G2.4

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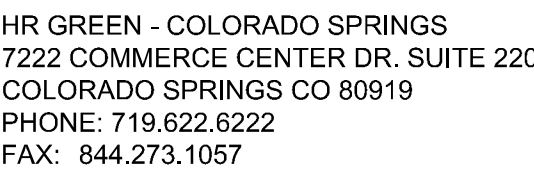
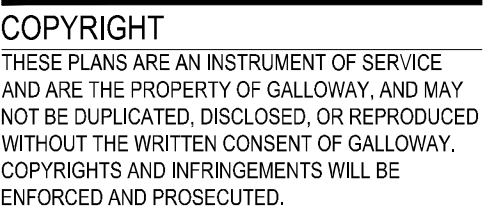








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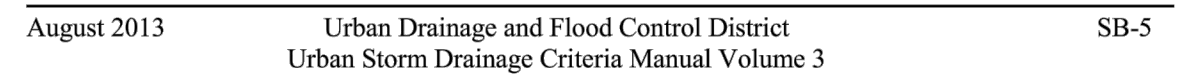
Sheet 12 of 16







## SC-7



### Sediment Basin (SB)

### SEDIMENT BASIN INSTALLATION NOTES

1. 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 RIGER HEIGHT H, NUMBER OF COLUMNS N, HOLE DIAMETER HD AND PIPE DIAMETER D.
2. FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
3. SEDIMENT BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER LAND-DISTURBING ACTIVITY THAT RELIES ON BASINS AS A STORMWATER CONTROL.
4. EMBAKMENT 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 SIZE.
5. EMBAKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.
6. PIPE S40 OR GREATER SHALL BE USED.
7. THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBAKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR STANDARD BASIN(S). DETAILS FOR NONSTANDARD BASIN(S) SHALL BE INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

## SC-7

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

RECP-6      Urban Drainage and Flood Control District      November 2010  
 Urban Storm Drainage Criteria Manual Volume 3

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November 2010
Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3
RECP-7

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RECP-8                      Urban Drainage and Flood Control District                      November 2010  
 Urban Storm Drainage Criteria Manual Volume 3

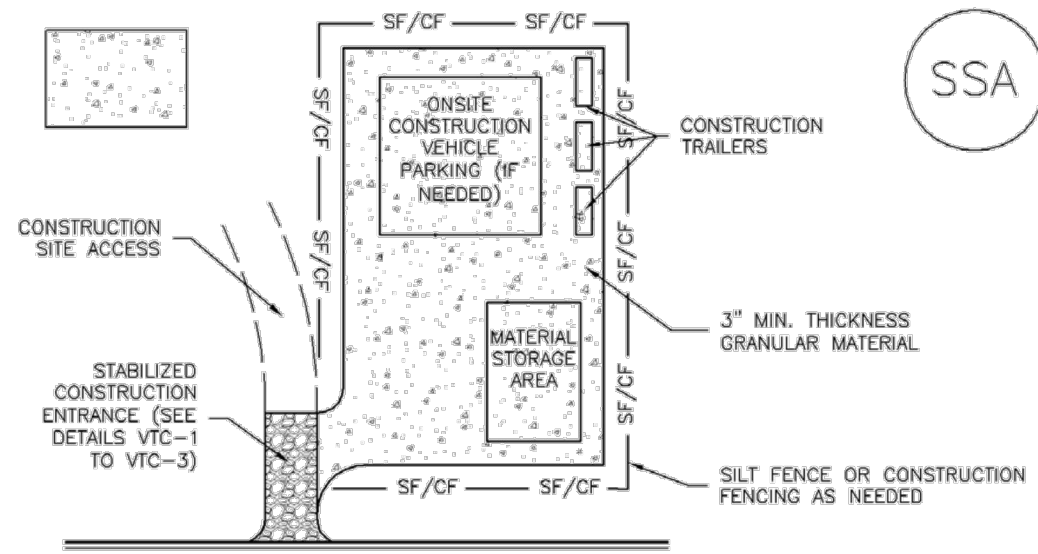
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RECP-9



Stabilized Staging Area (SSA)

SM-6



SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

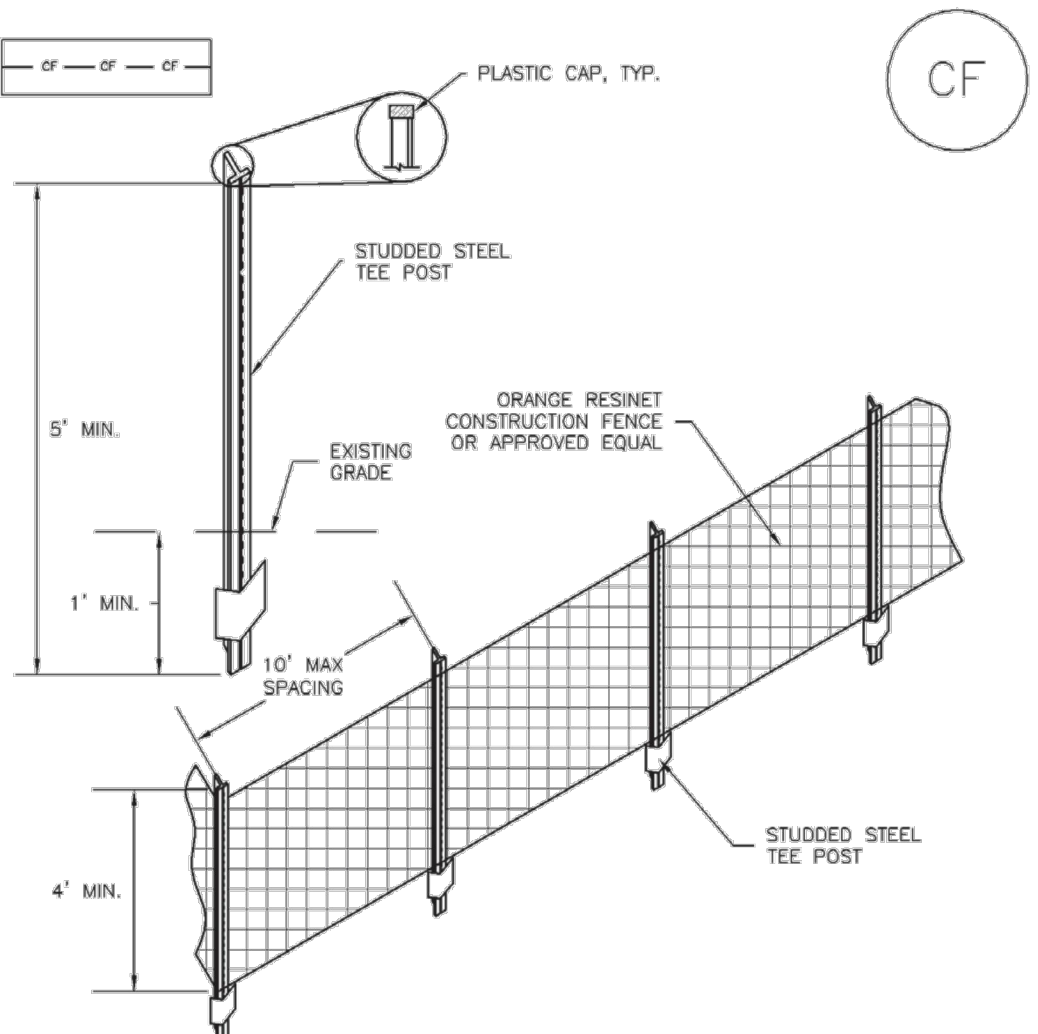
- SEE PLAN VIEW FOR:  
-LOCATION OF STAGING AREA(S).  
-CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
- STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
- STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
- THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3\"/>

STABILIZED STAGING AREA 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 IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

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SM-3 Construction Fence (CF)



CF-1. PLASTIC MESH CONSTRUCTION FENCE

CONSTRUCTION FENCE INSTALLATION NOTES

- SEE PLAN VIEW FOR:  
-LOCATION OF CONSTRUCTION FENCE.
- CONSTRUCTION FENCE SHOWN SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- CONSTRUCTION FENCE SHALL BE COMPOSED OF ORANGE, CONTRACTOR-GRADE MATERIAL THAT IS AT LEAST 4\"/>

CF-2 Urban Drainage and Flood Control District November 2010  
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SM-6

Stabilized Staging Area (SSA)

STABILIZED STAGING AREA MAINTENANCE NOTES

- STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
  - THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.
- NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
- (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

SSA-4 Urban Drainage and Flood Control District November 2010  
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Construction Fence (CF)

SM-3

CONSTRUCTION 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.
  - CONSTRUCTION FENCE SHALL BE REPAIRED OR REPLACED WHEN THERE ARE SIGNS OF DAMAGE SUCH AS RIPS OR SAGS. CONSTRUCTION FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
  - WHEN CONSTRUCTION FENCES ARE REMOVED, ALL DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE FENCE SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
- (DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

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T-2

Grass Swale

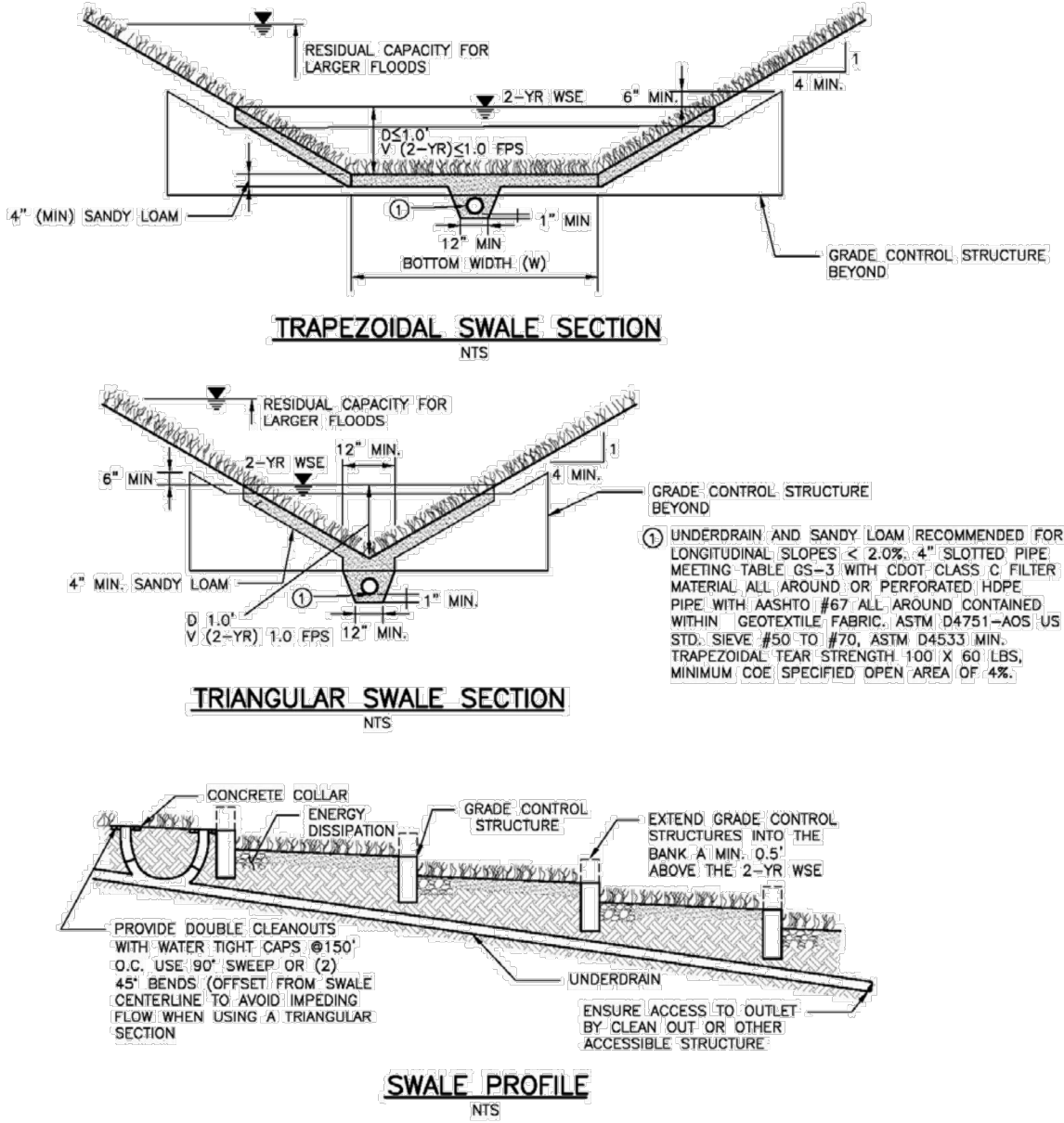


Figure GS-1. Grass Swale Profile and Sections

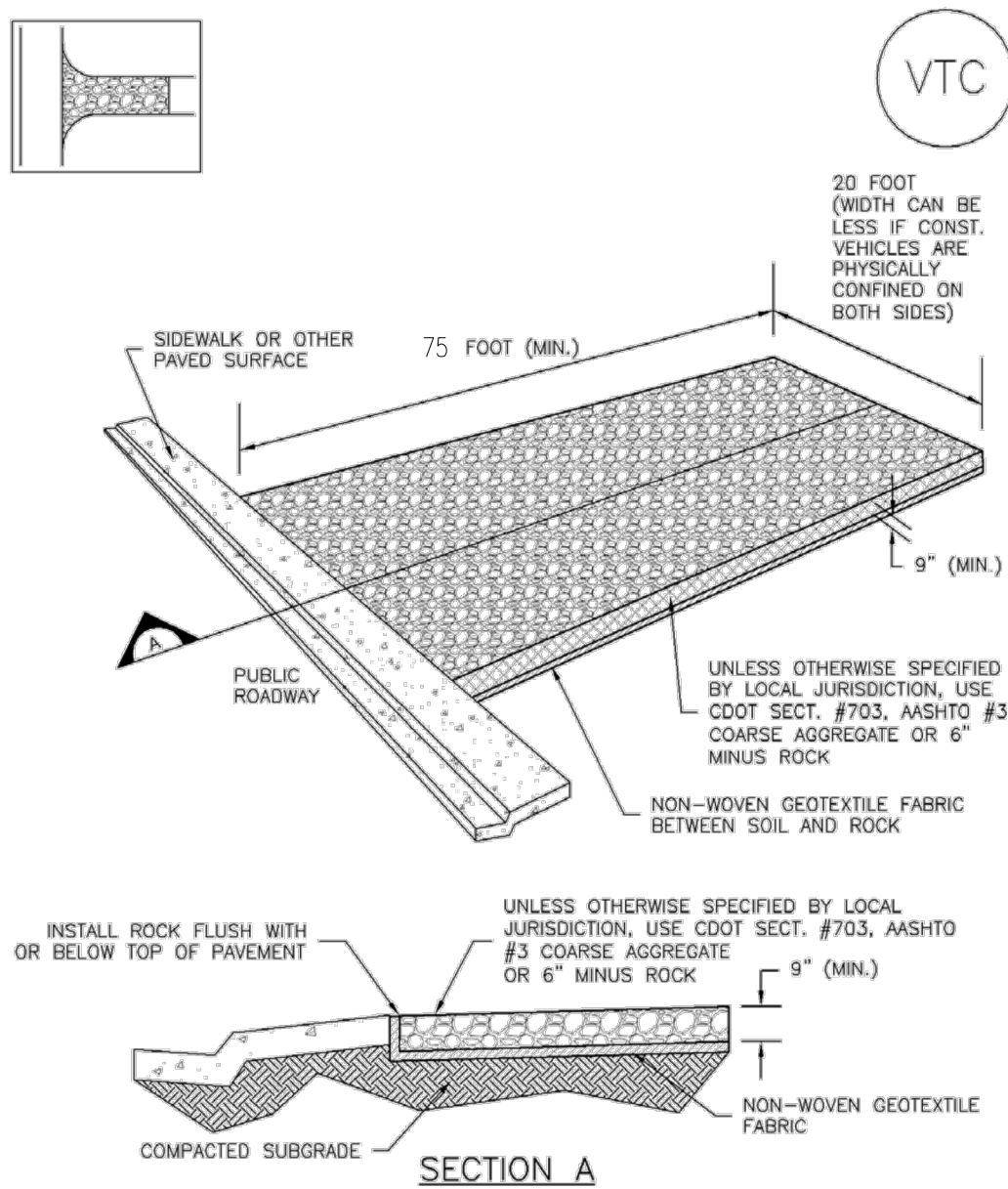
Design Example

The UD-BMP workbook, designed as a tool for both designer and reviewing agency is available at [www.udfcd.org](http://www.udfcd.org). This section provides a completed design form from this workbook as an example.

GS-6 Urban Drainage and Flood Control District November 2010  
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Vehicle Tracking Control (VTC)

SM-4



VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

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Urban Storm Drainage Criteria Manual Volume 3

SM-4

Vehicle Tracking Control (VTC)

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\"/>

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.
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
- (DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

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Galloway

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EARLY GRADING & EROSION CONTROL PLANS  
GRANDVIEW RESERVE FILING NO. 1  
FOR  
HR GREEN

EASTONVILLE RD  
EL PASO COUNTY, PEYTON, CO 80831

#	Date	Issue / Description	Init.
1			
2			
3			
4			
5			
6			
7			
8			
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10			

Project No: HRG01  
Drawn By: JDP  
Checked By: RGD  
Date: 09/09/2022

EROSION CONTROL  
DETAILS

G4.3

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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. If the area is irrigated, seeding may occur in summer months, as well. See Table TS/PS-3 for appropriate seeding dates.

Species* (Common name)	Growth Season <sup>b</sup>	Pounds of Pure Live Seed (PLS)/acre	Planting Depth (inches)
1. Oats	Cool	35 - 50	1 - 2
2. Spring wheat	Cool	25 - 35	1 - 2
3. Spring barley	Cool	25 - 35	1 - 2
4. Annual ryegrass	Cool	10 - 15	½
5. Millet	Warm	3 - 15	½ - ¾
6. Sudangrass	Warm	5-10	½ - ¾
7. Sorghum	Warm	5-10	½ - ¾
8. Winter wheat	Cool	20-35	1 - 2
9. Winter barley	Cool	20-35	1 - 2
10. Winter rye	Cool	20-35	1 - 2
11. Triticale	Cool	25-40	1 - 2

Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1 or where access limitations exist. When hydraulic seeding is used, hydraulic mulching should be applied as a separate operation, when practical, to prevent the seeds from being encapsulated in the mulch.

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- 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. Straw small must be anchored (and not merely placed) on the surface. This can be accomplished mechanically by crimping or with the aid of tackifiers or nets. Anchoring with a crimping implement is preferred, and is the recommended method for areas flatter than 3:1. Mechanical crimpers must be capable of tucking the long mulch fibers into the soil to a depth of 3 inches without cutting them. An agricultural disk, while not an ideal substitute, may work if the disk blades are dull or blunted and set vertically; however, the frame may have to be weighted to afford proper soil penetration.
- Grass hay may be used in place of straw; however, because hay is comprised of the entire plant including seed, mulching with hay may seed the site with non-native grass species which might in turn out-compete the native seed. Alternatively, native species of grass hay may be purchased, but can be difficult to find and are more expensive than straw. Purchasing and utilizing a certified weed-free straw is an easier and less costly mulching method. When using grass hay, follow the same guidelines as for straw (provided above).
- On small areas sheltered from the wind and heavy runoff, spraying a tackifier on the mulch is satisfactory for holding it in place. For steep slopes and special situations where greater control is needed, erosion control blankets anchored with stakes should be used instead of mulch.

Hydraulic mulching consists of wood cellulose fibers mixed with water and a tackifying agent and should be applied at a rate of no less than 1,500 pounds per acre (1,425 lbs of the fibers mixed with at least 75 lbs of the tackifier) with a hydraulic mulcher. For steeper slopes, up to 2000 pounds per acre may be required for effective hydroseeding. Hydromulch typically requires up to 24 hours to cure; therefore, it should not be applied immediately prior to inclement weather. Application to roads, waterways and existing vegetation should be avoided.

- Erosion control mats, blankets, or nets are recommended to help stabilize steep slopes (generally 3:1 and steeper) and waterways. Depending on the product, these may be used alone or in conjunction with grass or straw mulch. Normally, use of these products will be restricted to relatively small areas. Biodegradable mats made of straw and jute, straw-coconut, coconut fiber, or excelsior can be used instead of mulch. (See the ECM/TRM BMP for more information.)
- Some tackifiers or binders may be used to anchor mulch. Check with the local jurisdiction for allowed tackifiers. Manufacturer's recommendations should be followed at all times. (See the Soil Binder BMP for more information on general types of tackifiers.)
- Rock can also be used as mulch. It provides protection of exposed soils to wind and water erosion and allows infiltration of precipitation. An aggregate base course can be spread on disturbed areas for temporary or permanent stabilization. The rock mulch layer should be thick enough to provide full coverage of exposed soil on the area it is applied.

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

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