RV STORAGE PROJECT TAMLIN ROAD

5080 TAMLIN ROAD

LOCATED IN SECTION 21, TOWNSHIP13S, RANGE 65W OF THE 6TH P.M., **COUNTY OF EL PASO, STATE OF COLORADO**

GRADING AND EROSION CONTROL PLANS SEPTEMBER 2024

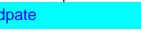
STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION,

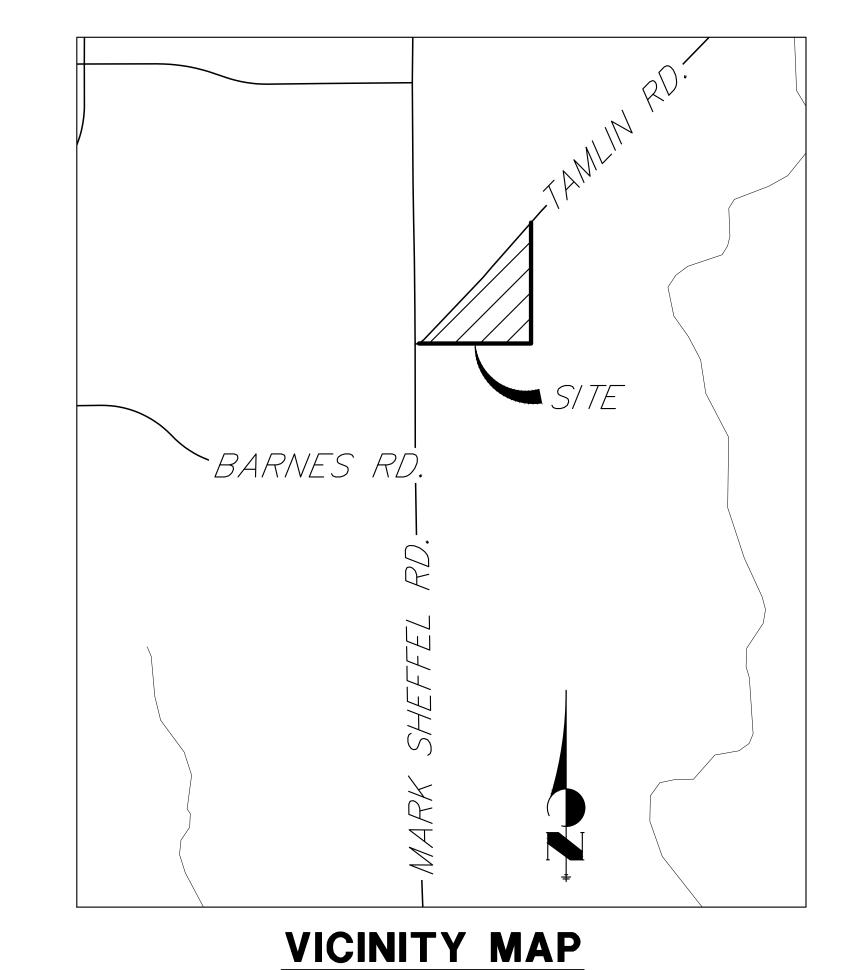
GRADING AND EROSION CONTROL STANDARD NOTES

- CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS. 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 DRAINAGE CRITERIA MANUAL. AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND
- 3. A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP 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
- 5. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED 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 ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- 8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- 9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT AFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM 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 ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- 11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- 12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND. THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION
- 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 ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- 14. DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING 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 AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- 17. WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- 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, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS 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 SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- 21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- 22. BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER
- 23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN 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 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF 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 ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- 26. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- 27. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED YTOX MINTIMIZE DUST PROM EARTHWORK EQUIPMENT AND WIND;
- 28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY XXX AND 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 ONE
- (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 MATÈRIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT WATER QUALITY CONTROL DIVISION WQCD - PERMITS 4300 CHERRY CREEK DRIVE SOUTH

DENVER, CO 80246-1530 ATTN: PERMITS UNIT





SCALE: 1"=1000'

CIVIL ENGINEER:

AGENCIES

TAMLIN STORAGE, LLC OWNER/DEVELOPER: 57 NEWPORT CIRCLE UNIT B

COLORADO SPRINGS, CO 80919 PARKER SAMELSON (719) 659-7126

5475 TECH CENTER DRIVE COLORADO SPRINGS, CO 80919 BRYAN LAW P.E. (303) 267-6254

COUNTY ENGINEERING: EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, CO 80910

CHARLENE DURHAM, P.E. (719) 520-7951

TRAFFIC ENGINEERING: EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS 3275 AKERS DRIVE

COLORADO SPRINGS, CO 80922 JOSHUA PALMER, P.E. (719) 520-6460

STANDARD NOTES FOR EL PASO COUNTY

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS

CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD

TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).

GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOIL AND GEOTECHNICAL REPORT, AND THE APPROPRIATE

DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB

CITY OF COLORADO SPRINGS/ EL PASO COUNTY DRAINAGE CRITERIA

COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD

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 VERSIONS OF THE

RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND

CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY

DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND

APPROVED. IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA

AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO

EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS. OMISSIONS. OR

CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY

PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT INSPECTIONS, PRIOR

REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES TO OBTAIN ALL REQUIRED

FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED

PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING

401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST

CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST

OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD.

CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON

CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL

5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE

DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.

DEVELOPMENT CODE, THE EINGEERI9NG CRITERIA MANUAL, THE DRAINAGE

CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE

NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT. BEFORE BEGINNING CONSTRUCTION, LOCATION OF EXISTING UTILITIES

SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811

AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY

DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THÉ EL PASO COUNTY

CONSTRUCTION PLANS

SITE AT ALL TIMES. INCLUDING THE FOLLOWING:

MANUAL, VOLUMES 1 AND 2

3.4. CDOT M&S STANDARDS

TO STARTING CONSTRUCTION.

3.1. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)

SPECIFICATIONS AND BRIDGE CONSTRUCTION

ENGINEERING CRITERIA MANUAL

FIRE DISTRICT:

FALCON FIRE PROTECTION 12072 ROYAL COUNTY DOWN ROAD FALCON, CO 80831 (719) 495-4050

COLORADO SPRINGS UTILITIES GAS DEPARTMENT: 7710 DURANT DR. COLORADO SPRINGS, CO 80947

(719) 668-3556 ELECTRIC DEPARTMENT: MOUNTAIN VIEW ELECTRIC

COMMUNICATIONS:

11140 E. WOODMEN ROAD FALCON, CO 80831 (719) 495-2283

QUEST COMMUNICATIONS (U.N.C.C. LOCATORS) (800) 922-1987 (AT&T LOCATORS) (719) 635-3674

SHEET INDEX

1 : COVER SHEET 3 : GRADING AND EROSION CONTROL PLANS 4-5 : POND GRADING 6-9 : DETAILS

TOTAL SHEETS: 9



Know what's below.

IEL PASO COUNTY STATEMENT

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 SHALI THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

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.

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

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

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

12. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS AND MUTCD CRITERIA.

13. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.

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

> THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES

BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF

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 ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WIL

COUNTY ENGINEER/ECM ADMINISTRATOR

OWNER/DEVELOPER STATEMENT

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

TAMLIN STORAGE, LLC 57 NEWPORT CIRCLE UNIT B COLORADO SPRINGS, CO 80906

PARKER SAMELSON

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 THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLANS.



BRYAN T. LAW, P.E. COLORADO P.E. 25043 FOR AND ON BEHALF OF JR ENGINEERING//////////// SHEET 1 OF 9 JOB NO. **25305.00**

Add case number PPR2437

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UTILITIES LEGEND

STORM SEWER

CROSS

ANODE

PLUG W/ THRUST BLOCK

REVERSE ANCHOR

AIR & VACUUM VALVE ASSEMBLY

GAS LINE

SERVICE MARKER

DRY UTILITIES CABLE TV MARKER

ELECTRIC MARKER

CABLE TELEVISION PEDESTAL

ELECTRIC SERVICE MARKER

ELECTRICAL PEDESTAL ELECTRICAL METER ELECTRICAL MANHOLE

FIBER-OPTIC MARKER IRRIGATION PEDESTAL TELEPHONE MARKER TELEPHONE PEDESTAL TELEPHONE MANHOLE

UTILITY POLE GUY ANCHOR GUY POLE

VENT PIPE

MISC. UTILITIES

TEST HOLE DESIGNATOR

MARKER

METER

PLUG

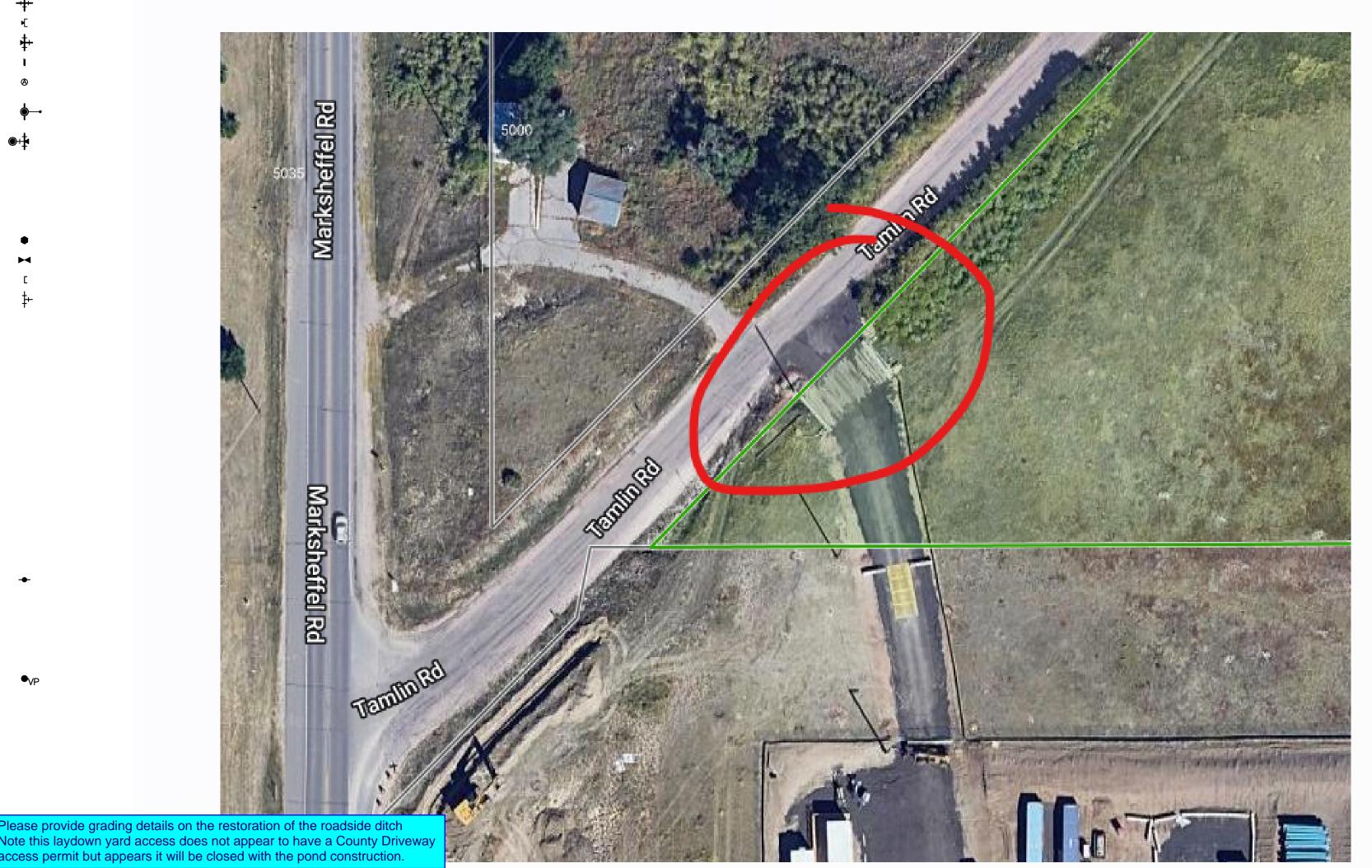
TRANSMISSION BLOW-OFF ASSEMBLY

EXISTING PROPOSED

STORM SEWER			MONUMENTATION	LEGEND
MANHOLE	©			
STORM INLET			ALUMINUM CAP — FOUND	●AC
AREA INLET — SQUARE			BRASS CAP - FOUND	● _{BC}
AREA INLET - ROUND	0		BENCHMARK - FOUND	+
FLARED END SECTION	D		CROSS - FOUND	+
RIPRAP			MONUMENT - SET	0
	<u> </u>	192999 1	MONUMENT — FOUND (DEFAULT)	•
SANITARY SEWER			MONUMENT — FOUND (ALTERNATE 1)	•
LINE MARKER	Mkr San ^O		MONUMENT - FOUND	
SERVICE MARKER	Ś		(ALTERNATE 2)	
CLEAN-OUT	0-	•-	MONUMENT — FOUND (ALTERNATE 3)	A
MANHOLE W/ DIRECTIONAL FLOW ARROW	_ S⊲	•4	MONUMENT — FOUND (ALTERNATE 4)	
WATER LINE			MONUMENT - FOUND	•
LINE MARKER	Mkr W°		(ALTERNATE 5)	_
SERVICE MARKER	\triangle		MONUMENT — FOUND (ALTERNATE 6)	
FIRE HYDRANT	ď	«	MONUMENT — FOUND	•
FIRE CONNECTION		*	(ALTERNATE 7)	
MANHOLE	W	•	NAIL & WASHER - FOUND	•NAIL & WASHER
BEND BLOW OFF VALVE	<u>پر</u>	↓	PANEL - FOUND	人
BLOW-OFF VALVE WELL	оч O _{WELL}		PK NAIL — FOUND	●PK NAIL
	<i>™ELL</i>	•WELL	ROW MONUMENT — FOUND	-
METER		•	ROW MARKER - FOUND	
VALVE	\bowtie	•	NOW MARKER - FOUND	□
REDUCER		-	SECTION CORNER - FOUND	—
THRUST BLOCK		K		_
CROSS		-1-		

ABBREVIATIONS

AC	ACRE	INT INV	INTERSECTION
AD	ALGEBRAIC DIFFERENCE	INV	INVERT
λH	AHEAD	IRR	IRRIGATION
	ARCHITECT	KB	KICK (THRUST) BLOCK
	AMEDICANI OCCUETY OF CUM		POUND
JUL	AMERICAN SOCIETY OF CIVIL ENGINEERS ASSEMBLY AVENUE BOX BASE BACK BOUNDARY BOTTOM OF PIPE BLOW OFF VALVE BUTTERFLY VALVE BOULEVARD	I F	LANDSCAPE EASEMENT
35'Y	ASSEMBLY	LE LF	LINEAR FOOT
/F	AVENUE	LN	LANE
2	ROY RASE	LOMR	LETTER OF MAP REVISION
K L	BACK BACK	LP	LOW POINT
アロヘ		LF I C	LUMP SUM
ושא	DOTTOM OF DIDE	LS LT	LEFT
JP 0.V	DUTION OF PIPE	LI	MAXIMUM
OV	BLOW OFF VALVE	MAX	
F V	BUTTERFLY VALVE	M/D	MOISTURE DENSITY
LVD	BOULEVARD	MDDP	MASTER DEVELOPMENT
S VV	BOTTOM OF WALL		DRAINAGE PLAN
&G	CURB & GUTTER	MH	MANHOLE
ATV		MIN	
В	CATCH BASIN	MS	MOUNTABLE SIDEWALK
BC	CONCRETE BOX CULVERT	N	NORTH
DOT	CONCRETE BOX CULVERT COLORADO DEPARTMENT OF	NRCP	NON-REINFORCED CONCRETE
	TRANSPORTATION		PIPE
DS	CUL-DE-SAC	ODP	OFFICIAL DEVELOPMENT PLAN
F	CUBIC FOOT	OHE	OVERHEAD ELECTRIC
FS		OHU	OVERHEAD UTILITY
ΙΡ	COMPLETE IN PLACE	PC	POINT OF CURVATURE
L.	CENTER LINE	PCC	POINT OF COMPOUND
	CONDITIONAL LETTER OF MAP	, 55	CURVATURE
	REVISION	PCR	POINT OF CURB RETURN
LR	CLEAD	PDP	PRELIMINARY DEVELOPMENT
MD -17	CORRUGATED METAL PIPE	ו טו	PLAN
LR MP O	CLEAN OUT	PE	PROFESSIONAL ENGINEER
ocs	CITY OF COLORADO SERINCS	PI	POINT OF INTERSECTION
	CITY OF COLORADO SPRINGS		PARKWAY
ONC	CONCRETE CIRCLE		
R		PL PR PRC	PROPERTY LINE
SP SU	CORRUGATED STEEL PIPE COLORADO SPRINGS UTILITIES COURT	PK PK	PROPOSED
2U	COLORADO SPRINGS UTILITIES	FKC	POINT OF REVERSE CURVATURE
T	= = = : : :		
TRB	CONCRETE THRUST REDUCER	PV	PLUG VALVE
	BLOCK	PVC	POLYVINYL CHLORIDE
Υ	CUBIC YARD	R	RADIUS
BPS	DRAINAGE BASIN PLANNING	RCBC	REINFORCED CONCRETE BOX
	STUDY		CULVERT
Ε	DRAINAGE EASEMENT	RCP	REINFORCED CONCRETE PIPE
lΑ	DIAMETER	RD	ROAD
ΙP	DUCTILE IRON PIPE	ROW	RIGHT OF WAY
R	DRIVE	RT	RIGHT
RC	DESIGN REVIEW COMMITTEE	S	SOUTH
U	DWELLING UNITS	STE	STEEL
Ϋ́	DAY	SAN	SANITARY SEWER
•	EAST	SF.	SQUARE FOOT
Α	EACH	ST	STREET
.A :GL	ENERGY GRADE LINE	STA	STATION
.GL :L			
	ELEVATION	STM	STORM SEWER
LEC	ELECTRIC	SY	SQUARE YARD INCL
OA	EDGE OF ASPHALT		SQUARE YARD INCH
EPC		TB	THRUST BLOCK
RCP	ELLIPTICAL RCP	TBC	TOP BACK OF CURB

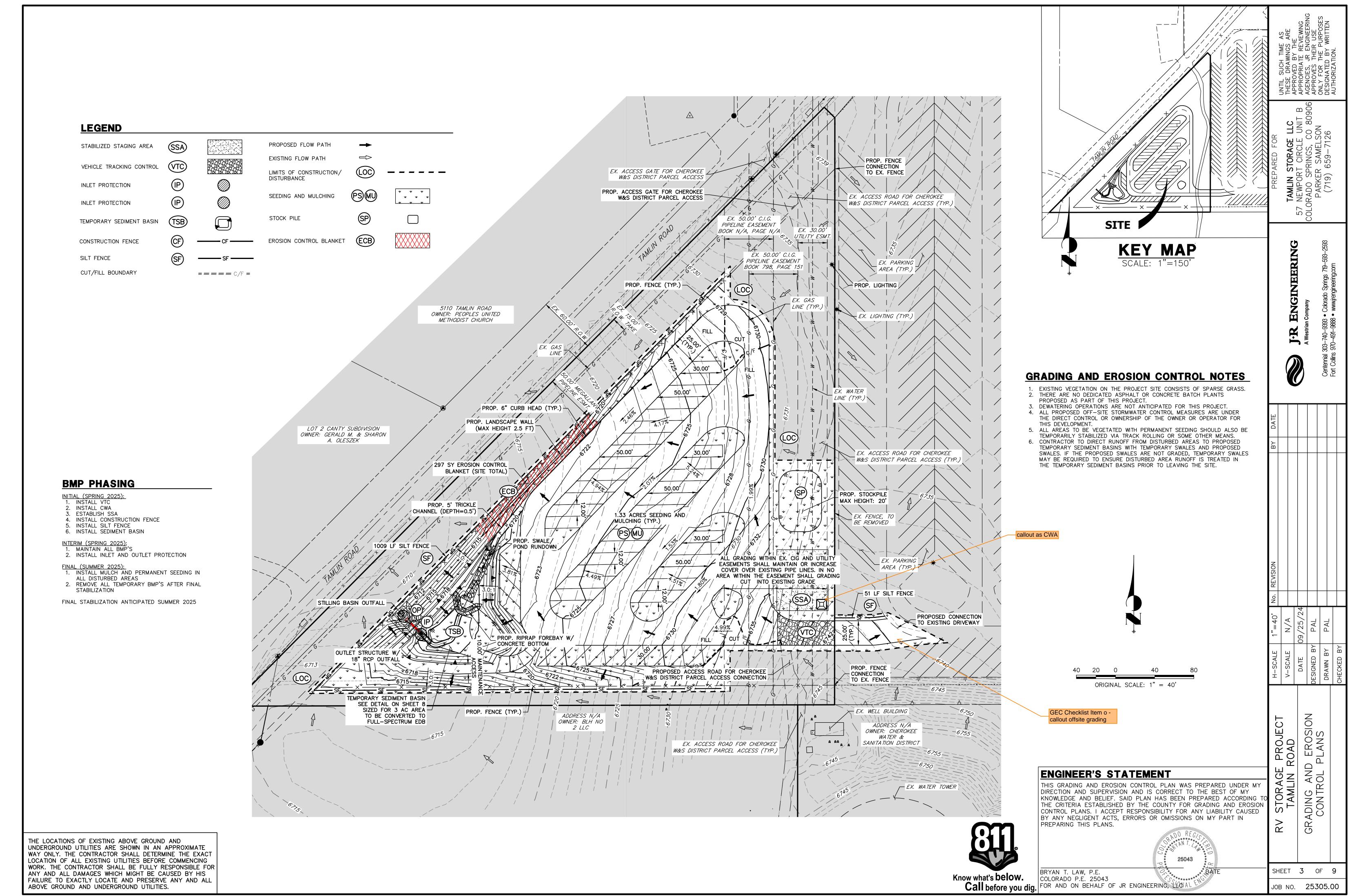


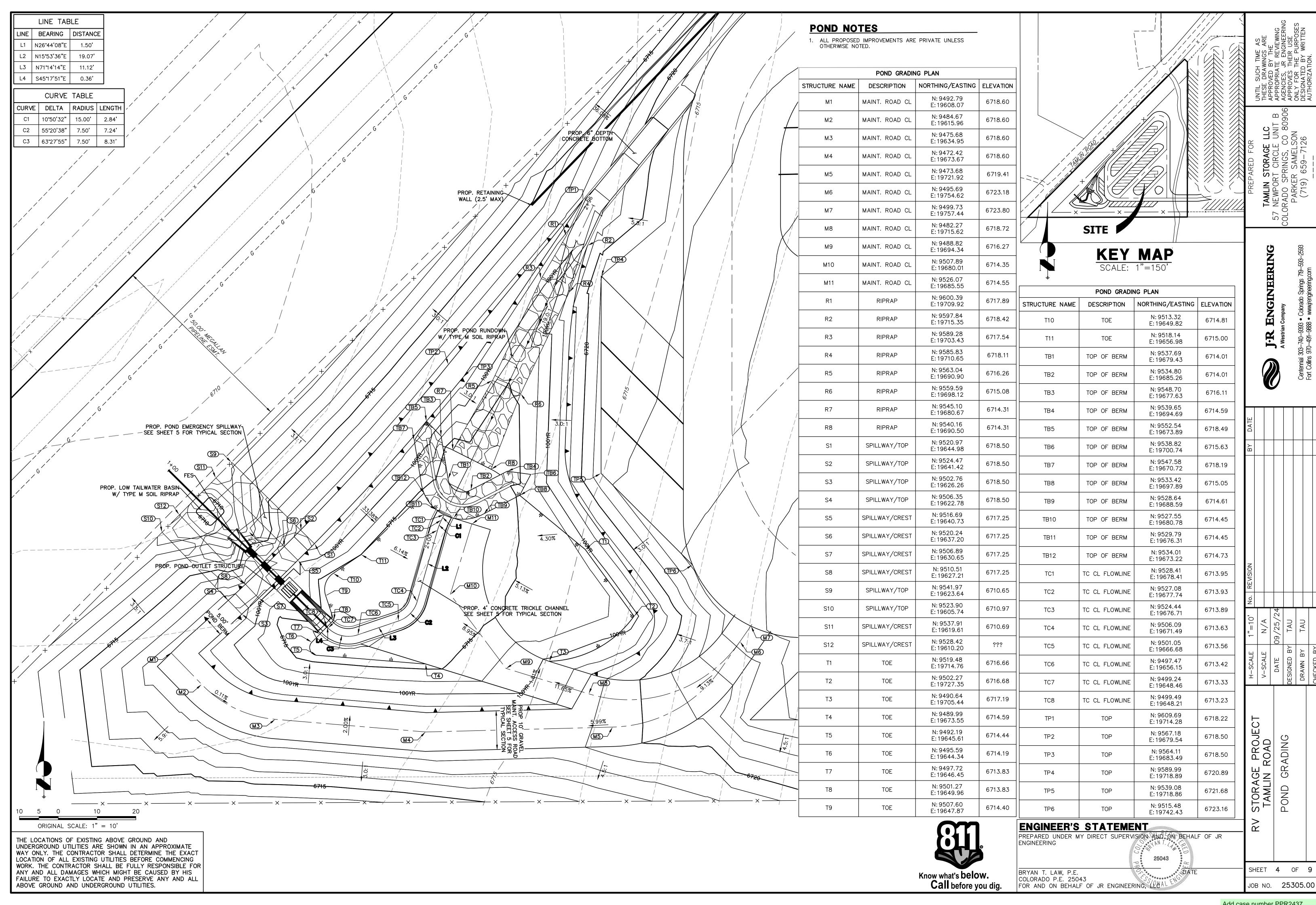


SHEET 2 OF 9 Know what's below.
Call before you dig.

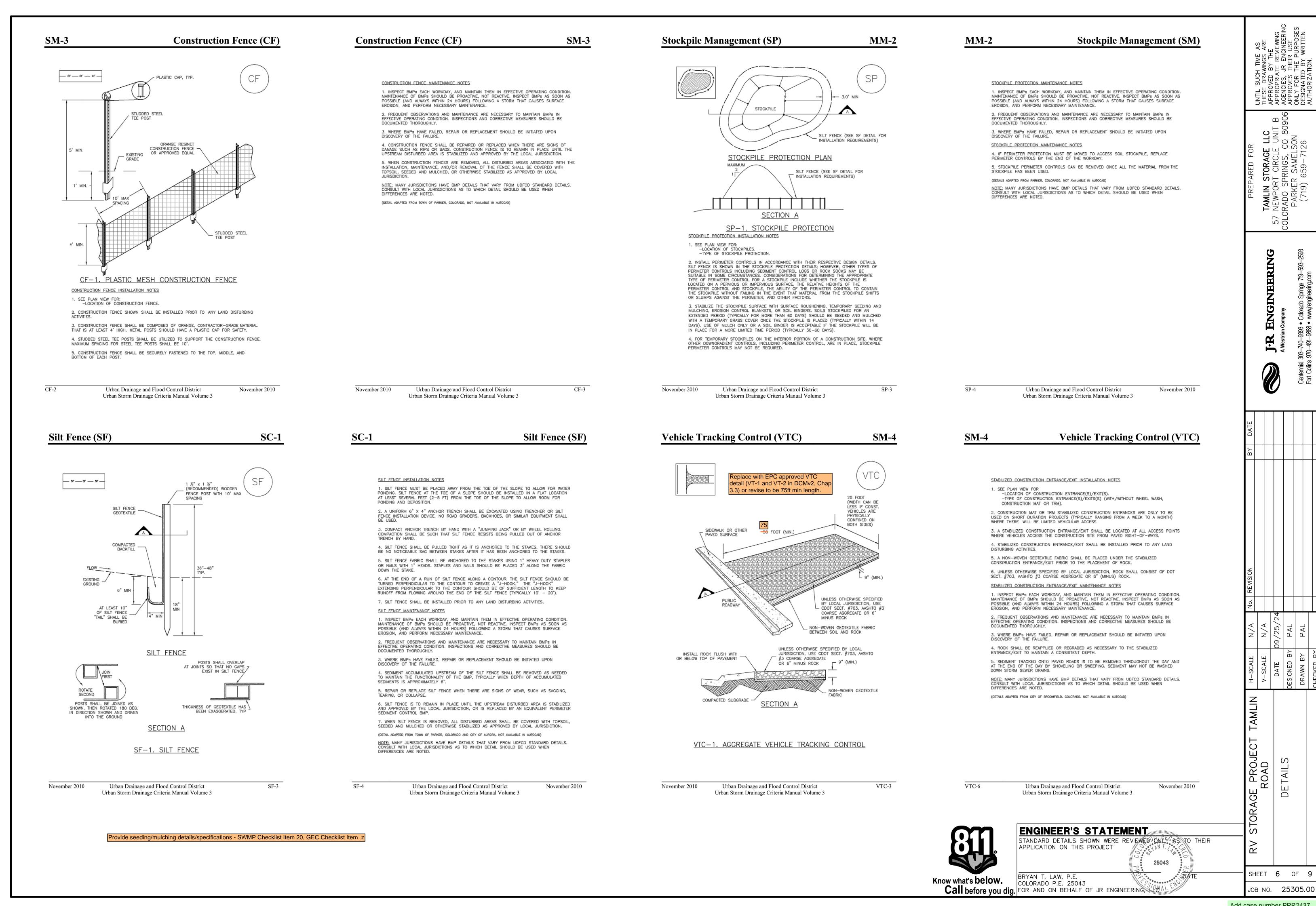
SHEET 2 OF 9

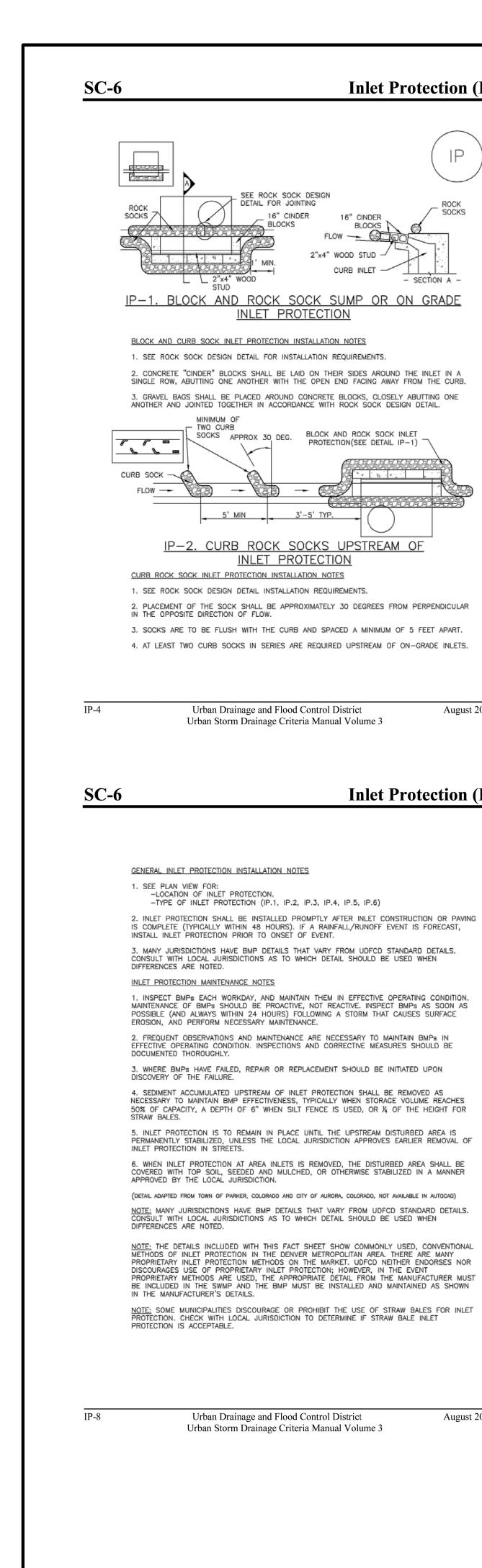
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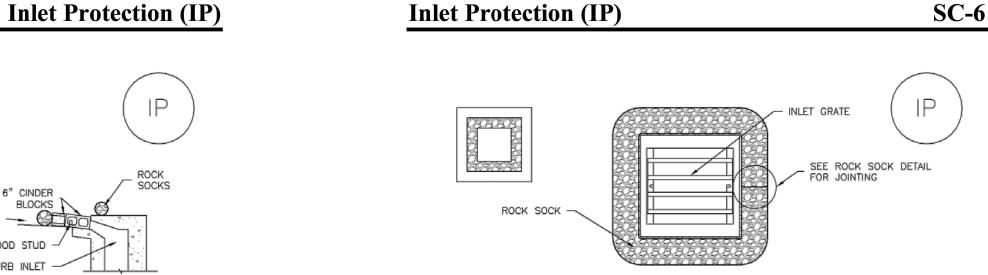




Submit full pond details, these do not show all details for the outlet structure, forebay, etc. TRICKLE CHANNEL ALIGNMENT PROFILE STA 1+00.00 TO 2+96.35 6725 +6725 KEY MAP SCALE: 1"=150" equipment can still safely access the pond 6720and reach structures. Properly document this in the Pond O&M manual. — PROP. POND TYPE M — RIPRAP RUNDOWN W/ — BEDDING MATERIAL POND BERM 100-YR WSEL EL.: 6717.02 10.00' (MIN.) PROP. POND OUTLET STRUCTURE POND OUTLET STRUCTURE STA: 1/+43.02 INV OUT: 6710.92 PROPOSED GRADE -AT TC & (TYP.) STA: 2+07.80 EL: 6713.95 6715 TIE INTO PROPOSED — GRADE STA: 1+57.35 EL: 6713.23 EXISTING GRADE AT TC & (TYP.) 8" OF CLASS 6 AGGREGATE BASE COURSE (ABC) (12" ABC UNDER EURV WSEL: 6716.54') COMPACTED SUB-GRADE -CLASS B CONCRETE W/ FIBER MESH REINFORCING (8" DEPTH) 18" FES STA: 1+29.08 INV IN: 6710.78 SUB-GRADE -PROP. CONCRETE TRICKLE CHANNEL SEE THIS SHEET FOR DETAILS _ PLACE CONTROL JOINTS EVERY 10 FT. STA: 1+20.00_ EL: 6710.75 STA: 1+10.00_ CONCRETE TRICKLE CHANNEL GRAVEL MAINTENANCE ACCESS ROAD TYPICAL SECTION TYPICAL SECTION SCALE: 1"=4' 6710 STA: 1+13.00__ EL: 6709.75 13.93 LF 18" RCP @ 1.00% STA: 1+17.00__ EL: 6709.75 6.00' 14.00' _ PROP. TYPE M RIPRAP -LOW TAILWATER BASIN TOP OF SPILLWAY/ TOP OF SPILLWAY/ TOP OF POND=6718.50 TOP OF POND=6718.50' $D_{100}=0.25$ 6705-6705 3" TOPSOIL -- SPILLWAY CREST=6717.25' TYPE VL SOIL RIPRAP, (12" MIN. DEPTH, D50=6") PER MHFD SPEC. SECTION 31-37-00, THE SOIL MATERIAL SHALL BE NATIVE OR TOPSOIL AND MIXED WITH 65% RIPRAP AND 35% SOIL BY VOLUME. SOIL RIPRAP SHALL CONSIST OF UNIFORM MIXTURE OF SOIL AND RIPRAP WITHOUT VOIDS. POND EMERGENCY SPILLWAY TYP. SECTION SCALE: N.T.S. 6700 |6700 1+00 2+00 2+96 STORAGE PROJECT TAMLIN ROAD 20 10 0 20 ORIGINAL SCALE: 1" = 20' ENGINEER'S STATEMENT PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF OF JR THE LOCATIONS OF EXISTING ABOVE GROUND AND ENGINEERING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT 25043 LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR Know what's below. Call before you dig. BRYAN T. LAW, P.E. COLORADO P.E. 25043 FOR AND ON BEHALF OF JR ENGINEERING, JANA COLORADO P.E. 25043 SHEET 5 OF 9 ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES. JOB NO. **25305.00**







IΡ

SOCKS

August 2013

August 2013

Inlet Protection (IP)

SEE ROCK SOCK DESIGN

16" CINDER

INLET PROTECTION

3'-5' TYP.

INLET PROTECTION

BLOCKS

16" CINDER

BLOCK AND ROCK SOCK INLET

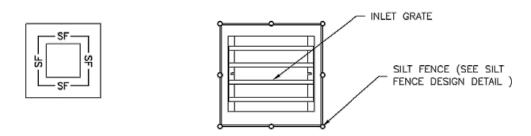
PROTECTION(SEE DETAIL IP-1)

2"x4" WOOD STUD

IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION

ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES 1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

2. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.



SILT FENCE INLET PROTECTION INSTALLATION NOTES

1. SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

2. POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF 3 FEET.

IP-4. SILT FENCE FOR SUMP INLET PROTECTION

3. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF SILT FENCE FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.

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Temporary Outlet Protection (TOP)

STRAW BALE BARRIER INLET PROTECTION INSTALLATION NOTES

1. SEE STRAW BALE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.

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SC-6

SHEET

OR ROCK SOCK

STRAW BALE (SEE STRAW

BALE DESIGN DETAIL)

(USE IF FLOW -IS CONCENTRATED)

EC-8

August 2013

Inlet Protection (IP)

IP

TEMPORARY OUTLET PROTECTION INSTALLATION NOTES SEE PLAN VIEW FOR
 -LOCATION OF OUTLET PROTECTION.

-DIMENSIONS OF OUTLET PROTECTION.

2. DETAIL IS INTENDED FOR PIPES WITH SLOPE \le 10%, ADDITIONAL EVALUATION OF RIPRAP SIZING AND OUTLET PROTECTION DIMENSIONS REQUIRED FOR STEEPER SLOPES. 3. TEMPORARY OUTLET PROTECTION INFORMATION IS FOR OUTLETS INTENDED TO BE UTILIZED LESS THAN 2 YEARS.

ECB -

JP-5. OVEREXCAVATION INLET PROTECTION

1. THIS FORM OF INLET PROTECTION IS PRIMARILY APPLICABLE FOR SITES THAT HAVE NOT YET REACHED FINAL GRADE AND SHOULD BE USED ONLY FOR INLETS WITH A RELATIVELY SMALL CONTRIBUTING DRAINAGE AREA.

2. WHEN USING FOR CONCENTRATED FLOWS, SHAPE BASIN IN 2:1 RATIO WITH LENGTH ORIENTED TOWARDS DIRECTION OF FLOW.

IP-6. STRAW BALE FOR SUMP INLET PROTECTION

2. BALES SHALL BE PLACED IN A SINGLE ROW AROUND THE INLET WITH ENDS OF BALES

3. SEDIMENT MUST BE PERIODICALLY REMOVED FROM THE OVEREXCAVATED AREA.

CONCENTRATED

OVEREXCAVATION INLET PROTECTION INSTALLATION NOTES

TEMPORARY OUTLET PROTECTION INSPECTION AND MAINTENANCE NOTES

1. 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.

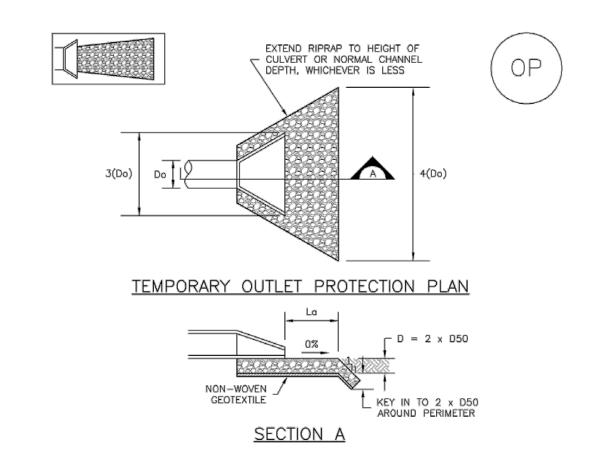
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

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 AURORA, COLORADO AND PREVIOUS VERSION OF VOLUME 3, NOT AVAILABLE IN AUTOCAD)

EC-8 Temporary Outlet Protection (TOP)



				ı	
TABLE OP-1. TEMPORARY OUTLET PROTECTION SIZING TABLE					
PIPE DIAMETER, Do (INCHES)	DISCHARGE, Q (CFS)	APRON LENGTH, La (FT)	RIPRAP D50 DIAMETER MIN (INCHES)		
8	2.5 5	5 10	4 6		
12	5 10	10 13	4 6		
18	10 20 30 40	10 16 23 26	6 9 12 16		
24	30 40 50 60	16 26 26 30	9 9 12 16		
1. TEMPORARY OUTLET PROTECTION					

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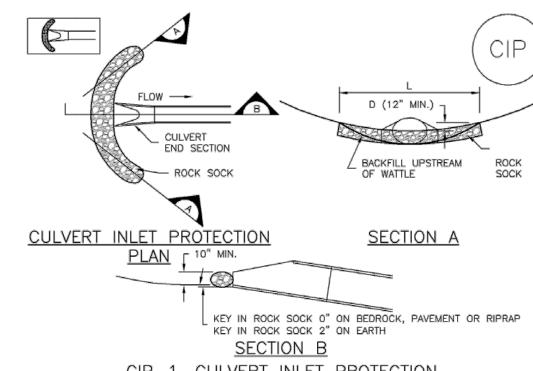
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TOP-3

Inlet Protection (IP)



SC-6

IP-7

 $O \equiv \infty$

STORAGE RT CIRCLE

AMLIN STORAGE
EWPORT CIRCLE
ADO SPRINGS, (
PARKER SAMELS
(719) 659-712

TAML NEWF RADC PAR

57 OL(

<u>CIP-1. CULVERT INLET PROTECTION</u> CULVERT INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR -LOCATION OF CULVERT INLET PROTECTION.

2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK GRADATION REQUIREMENTS AND JOINTING

CULVERT INLET PROTECTION MAINTENANCE NOTES

1. 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

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

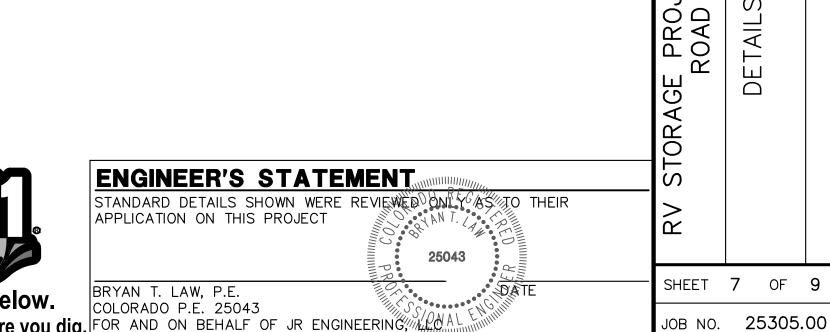
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 1/2 THE HEIGHT OF THE ROCK SOCK.

5. CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AND APPROVED BY THE LOCAL JURISDICTION. (DETAILS ADAPTED FROM AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

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

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Know what's **below.**

Call before you dig. FOR AND ON BEHALF OF JR ENGINEERING, AND ON B

STABILIZED STAGING AREA MAINTENANCE NOTES

STORAGE, AND UNLOADING/LOADING OPERATIONS.

SSA-4

VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING,

6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE

NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF

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

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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.

Area (rounded to (W), (ft) Length (CL), (ft) nearest acre), (ac)

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 -FOR NONSTANDARD BASIN, SEE CONSTRUCTION DRAWINGS FOR DESIGN OF BASIN INCLUDING RISER HEIGHT H, NUMBER OF COLUMNS N, HOLE DIAMETER HD AND PIPE

TABLE SB-1. SIZING INFORMATION FOR STANDARD SEDIMENT BASIN

Sediment Basin (SB)

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 ON BASINS AS A STORMWATER CONTROL. 4. 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. 5. EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698.

PIPE SCH 40 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 EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES.

CONCRETE WASHOUT AREA PLAN

8 X 8 MIN.

CWA-1. CONCRETE WASHOUT AREA

2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A

4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT

5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.

ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS

7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND

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3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.

6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.

8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

COMPACTED BERM AROUND

THE PERIMETER

UNDISTURBED OR, COMPACTED SOIL

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CWA INSTALLATION NOTES 1. SEE PLAN VIEW FOR:

-CWA INSTALLATION LOCATION.

LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.

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Concrete Washout Area (CWA)

SB-7

CWA MAINTENANCE NOTES

POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

4. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.

6. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED. DIFFERENCES ARE NOTED.

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

SC-7

FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

5. SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO)

SEDIMENT BASIN MAINTENANCE NOTES

Sediment Basin (SB)

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. EROSION, AND PERFORM NECESSARY MAINTENANCE.

4. SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E., TWO FEET BELOW THE SPILLWAY CREST).

IS STABILIZED AND GRASS COVER IS ACCEPTED BY THE LOCAL JURISDICTION. 6. WHEN SEDIMENT BASINS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED 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

EROSION, AND PERFORM NECESSARY MAINTENANCE. 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN

EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

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Stabilized Staging Area (SSA)

SITE ACCESS

CONSTRUCTION

ENTRANCE (SEE -

TO VTC-3)

1. SEE PLAN VIEW FOR

FROM THE LOCAL JURISDICTION.

FENCE AND CONSTRUCTION FENCING.

STABILIZED STAGING AREA MAINTENANCE NOTES

DETAILS VTC-1

ONSITE

VEHICLE

PARKING (

NEEDED)

AREA

SF/CF ——— SF/CF —

SSA-1. STABILIZED STAGING AREA

2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE.

3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE. 4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR

SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT

6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT

1. 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

CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL

EXISTING ROADWAY

STABILIZED STAGING AREA INSTALLATION NOTES

-LOCATION OF STAGING AREA(S).

CONSTRUCTION

3" MIN. THICKNESS

GRANULAR MATERIAL

SILT FENCE OR CONSTRUCTION

SSA-3

SM-6

APPI APPI APPI ONL'

TAMLIN STORAGE LLC
NEWPORT CIRCLE UNI
ORADO SPRINGS, CO 8
PARKER SAMELSON
(719) 659-7126

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Concrete Washout Area (CWA)

MM-1

CWA

VEHICLE TRACKING

CONTROL (SEE VTC DETAIL) OR OTHER STABLE SURFACE

VEHICLE TRACKING

CONTROL (SEE VTC DETAIL)

MM-1

CWA-4

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON

CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE

5. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.

7. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION. (DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD). NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN

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November 2010

ENGINEER'S STATEMENT STANDARD DETAILS SHOWN WERE REVIEWED ONLY AS TO THEIR APPLICATION ON THIS PROJECT 25043

COLORADO P.E. 25043

Know what's below. Call before you dig. FOR AND ON BEHALF OF JR ENGINEERING, AND ON B

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Add case number PPR2437

JOB NO. **25305.00**

SHEET 8 OF 9

STAKE, TYP.

COMPACTED BACKFILL, TYP.

PERIMETER ANCHOR TRENCH

WOOD STAKE DETAIL

Chapter 9

PARALLEL TO FLOWLINES) STAKING PATTERN SHALL MATCH ECB AND/OR CHANNEL TYPE. ECB-1. PIPE OUTLET TO DRAINAGEWAY ADJACENT JOINT ANCHOR TRENCH TYPE OF ECB, INDICATED IN PLAN VIEW - MIDDLE OF INTERMEDIATE ANCHOR TRENCH PERIMETER ANCHOR COMPACTED SUBGRADE STAKING PATTERN PER MANUFACTURER SPEC. OR PATTERN BASED ON ECB AND/OR CHANNEL TYPE (SEE STAKING OVERLAPPING JOINT PATTERN DETAIL) ECB-2. SMALL DITCH OR DRAINAGEWAY

TYPE OF ECB AS INDICATED IN PLAN VIEW, INSTALL IN ALL DISTURBED AREAS OF STREAMS AND DRAINAGE CHANNELS TO DEPTH

D ABOVE CHANNEL INVERT. ECB SHALL GENERALLY BE ORIENTED

PARALLEL TO FLOW DIRECTION (I.E. LONG DIMENSIONS OF BLANKET

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- END TREATMENT MAY CONSIST OF PIPE HEADWALL OR FES HEADWALL

HEADWALL SHOWN

2'-0"

2'-6"

* IF OUTLET PIPE IS A BOX CULVERT WITH A WIDTH GREATER THAN W, THEN W - CULVERT WIDTH

Figure 9-37. Low tailwater riprap basin

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30" - 36" 42" - 48"

54" - 60"

PROFILE

Hydraulic Structures

RIPRAP MORE THAN -

1.0' ABOVE PIPE
INVERT SHALL BE
INSTALLED 6"
BELOW FINISHED
GRADE AND BURIED
WITH TOPSOIL

JOINT — RESTRAINTS (2) RO

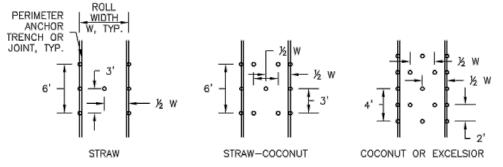
9-72

- STAGGER OVERLAPS OVERLAPPING JOINT MANUFACTURER SPEC. OR PATTERN BASED ON ECB AND/OR SLOPE TYPE (SEE STAKING PATTERN DETAIL) ECB-3. OUTSIDE OF DRAINAGEWAY

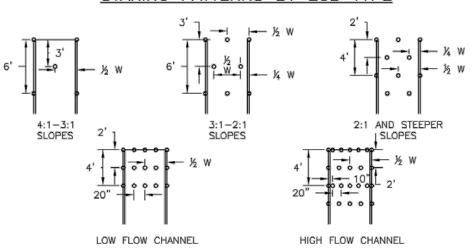
Rolled Erosion Control Products (RECP)

EC-6

RECP-7



STAKING PATTERNS BY ECB TYPE



STAKING PATTERNS BY SLOPE OR CHANNEL TYPE

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Rolled Erosion Control Products (RECP)

EROSION CONTROL BLANKET INSTALLATION NOTES 1. SEE PLAN VIEW FOR:

2. 100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED FOR RECPS, ALTHOUGH SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS.

4. PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL

5. JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER

7. OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs ON SLOPES.

9. ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING ECBS SHALL BE RESEEDED AND MULCHED.

DIFFERENT FROM THOSE SHOWN HERE.

TABLE ECB-1. ECB MATERIAL SPECIFICATIONS					
TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDED NETTING**	
STRAW*	_	100%	_	DOUBLE/ NATURAL	
STRAW- COCONUT	30% MIN	70% MAX	-	DOUBLE/ NATURAL	
COCONUT	100%	-	_	DOUBLE/ NATURAL	
EXCELSIOR	-	-	100%	DOUBLE/ NATURAL	

RECP-8

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Rolled Erosion Control Products (RECP)

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION.

MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS

4. ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE

5. ANY ECB PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW THE GEOTEXTILE THAT HAVE ERODED TO CREATED A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE ECB REINSTALLED.

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 AND TOWN OF PARKER COLORADO, NOT AVAILABLE IN AUTOCAD)

POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON

EROSION CONTROL BLANKET MAINTENANCE NOTES

EROSION, AND PERFORM NECESSARY MAINTENANCE.

DOCUMENTED THOROUGHLY.

DISCOVERY OF THE FAILURE.

REMOVED BY THE LOCAL JURISDICTION.

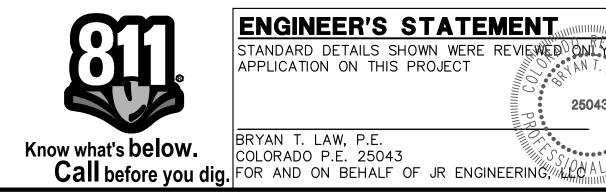
RECP-9

 $\mathbf{c} = \mathbf{\tilde{\infty}}$ TAMLIN STORAGE LLC
NEWPORT CIRCLE UNI
ORADO SPRINGS, CO 8
PARKER SAMELSON
(719) 659-7126

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TAMLIN

ENGINEER'S STATEMENT STANDARD DETAILS SHOWN WERE REVIEWED ON YOUR THEIR APPLICATION ON THIS PROJECT



SHEET 9 OF 9

JOB NO. 25305.00

-TYPE OF ECB (STRAW, STRAW-COCONUT, COCONUT, OR EXCELSIOR).
-AREA, A, IN SQUARE YARDS OF EACH TYPE OF ECB.

3. IN AREAS WHERE ECBs ARE SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE

(LONGITUDINALLY AND TRANSVERSELY) FOR ALL ECBs EXCEPT STRAW WHICH MAY USE AN OVERLAPPING JOINT.

6. INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF ROLL LENGTH FOR COCONUT AND EXCELSIOR ECBs.

8. MATERIAL SPECIFICATIONS OF ECBs SHALL CONFORM TO TABLE ECB-1.

10. DETAILS ON DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF

1	ABLE ECB-1.	ECB MATERIA	AL SPECIFICAT	IONS
TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDED NETTING**
STRAW*	-	100%	-	DOUBLE/ NATURAL
STRAW- COCONUT	30% MIN	70% MAX	-	DOUBLE/ NATURAL
COCONUT	100%	_	_	DOUBLE/ NATURAL
EXCELSIOR	-	-	100%	DOUBLE/ NATURAL

*STRAW ECBS MAY ONLY BE USED OUTSIDE OF STREAMS AND DRAINAGE CHANNEL.

**ALTERNATE NETTING MAY BE ACCEPTABLE IN SOME JURISDICTIONS

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