

AGENCIES/CONT.

DEVELOPER:

CIVIL ENGINEER:

LOCAL ROADS & DRAINAGE:

Struthers Ranch Polaris Grading & Erosion **Control Plans** El Paso County, Colorado



PREPARED FOR: HAMMERS CONSTRUCTION

1411 Woolsey Heights Colorado Springs, CO 80915

PREPARED BY:



PREPARED BY: 19 East Willamette Avenue Colorado Springs, Colorado 80903

August, 2022

CONTACTS		
HAMMERS CONSTRUCTION 1411 WOOLSEY HEIGHTS COLORADO SPRINGS, CO 80915 MR. RANDY MAXWELL (710) 570, 1500	WATER/WASTEWATER:	DONALA WATER & SANITATION DISTRICT 15850 HOLBEIN DR. COLORADO SPRINGS, CO 80921 (719)488–3603
JPS ENGINEERING, INC.	GAS DEPARTMENT:	BLACK HILLS ENERGY MR. SEBASTIAN SCHWENDER (719)399–3176
COLORADO SPRINGS, CO 80903 MR. JOHN P. SCHWAB, P.E. (719)477-9429	ELECTRIC DEPARTMENT:	MOUNTAIN VIEW ELECTRIC ASSOCIATION
EL PASO COUNTY PCD 2880 INTERNATIONAL CIRCLE COLORADO SPRINGS, CO 80910 (719)520–6300		11140 E. WOODMEN ROAD COLORADO SPRINGS, CO 80908 MR. DAVE WALDNER (719)495–2283
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		A.T. & T. Joshua Palmer, P.E.,

(LOCATORS) (719)635-3674

GEC PLAN SHEET INDEX

GEC PLAN TITLE SHEET GENERAL NOTES & LEGEND SITE GRADING & EROSION CONTROL PLAN FROSION CONTROL NOTES & DETAILS

ENGINEER:

evise to match GE

Revise to match GEC

Checklist Item "hh"

DESIGN ENGINEER'S STATEMEN⁻

PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR LIABILITY CAUSED BY NEGLIGENT ACTS. ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

JOHN P. SCHWAB, P.E. #29891

DATE

OWNER/DEVELOPER'S STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

DATE NAME: HAMMERS CONSTRUCTION ADDRESS:1411 WOOLSEY HEIGHTS COLORADO SPRINGS, CO 80915 PHONE: (719) 570-1599 EMAIL: rmaxwell@hammersconstruction.com

EL PASO COUNTY:

INTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH INTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE URACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS CH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE ROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR IPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

D IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, ENGINEERING CRITERIA MANUAL AS AMENDED.

CCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE NED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT RTED WITHIN THOSE 2 YEARS, THEY WILL NEED TO BE RESUBMITTED FOR ROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND IMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

PCD FILE NO. XXX

IFER IRVINE, P.E., NTY ENGINEER / ECM ADMINISTRATOR

DATE

	JPS
4	19 E. Willamette Ave. Colorado Springs, CO 80903 PH: 719-477-9429

HORZ. SCALE: N/ VERT. SCALE: N/	S LOTS 1-2, ST	H H H	UTHERS THERS RAN	RA ICH	NC BUB	4 POLARIS DIVISION FILING NO	O
A		No.	REVISION	ΒY	DATE		-AX
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D:						CALL 2-BUSINESS DAYS IN ADVANCE	71–(gr.co
						BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND	0766 om
P\ JPS						MEMBER UTILITIES.	,

SHEET:		
PROJECT NO: 032203	MODIFIED BY:	ΡV
CREATED: 05/27/20	LAST MODIFIED: 08/10)/22
SURVEYED: COMPASS	CHECKED:	JPS

COUNTY GENERAL NOTES:

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD LOCATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON T CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CO OF COLORADO (UNCC).

3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MAN GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL A. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)

B. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2

C. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION D. CDOT M & S STANDARDS

4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION R EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTE INCLUDING THE LAND DEVELOPMENT CODE, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DE STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT N RESPONSIBILITY TO RECTIFY.

5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.

6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PC CONSTRUCTION.

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPM ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.

8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.

9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP WITH CLASS B BEDDING UNLESS OTHERWISE NOTED AND APPROVED BY PCD.

10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PA CURB AND GUTTER AND PAVEMENT.

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

12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THA ALLOWED WITHIN SIGHT TRIANGLES.

13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DPW (DEPT. OF PUBLIC WORKS) AND MUTCD CRITERIA.

14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DPW, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND

15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHAL EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTI

GENERAL DRAINAGE NOTES:

 INDIVIDUAL BUILDERS SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND ACCOUNT FOR POTENTIAL CROSS-LOT DRAIN
 BUILDERS AND PROPERTY OWNERS SHALL IMPLEMENT & MAINTAIN EROSION CONTROL BEST MANAGEMENT PRACTICES FOR PROTECTION AND FACILITIES INCLUDING PROTECTION OF EXISTING GRASS BUFFER STRIPS ALONG THE DOWNSTREAM PROPERTY BOUNDARIES.
 GRADING AND DRAINAGE WITHIN LOTS IS THE RESPONSIBILITY OF THE INDIVIDUAL BUILDERS AND PROPERTY OWNERS.

COUNTY SIGNING AND STRIPING NOTES:

ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
 REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.

3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY.

4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.

5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.

6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.

7. ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS".

8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.

9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.

10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.

11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.

12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.

13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.

14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

	PROJECT GENERAL NOTES:
S/EL PASO COUNTY DRAINAGE CRITERIA	1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD LOCATION OF ALL EXISTING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO A
THE PLANS OR NOT, BEFORE BEGINNING INTACT THE UTILITY NOTIFICATION CENTER	2. EXISTING CONTOUR DATA PROVIDED BY OWNER CONSISTS OF SITE SURVEY FROM COMPASS LAND SURVE FOR THE ACCURACY OF EXISTING TOPOGRAPHIC MAPPING.
IAGEMENT PLAN (SWMP), THE SOILS AND	3. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THESE APPROVED PLANS AND ONE (1) COPY SPECIFICATIONS AT THE JOB SITE AT ALL TIMES:
TIMES, INCLUDING THE FOLLOWING:	A. EL PASO COUNTY ENGINEERING CRITERIA MANUAL B. CDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION C. DONALA WATER & SANITATION DISTRICT STANDARDS & SPECIFICATIONS
	4. STORM DRAIN PIPE SHALL BE RCP CLASS III WITH CLASS C BEDDING UNLESS OTHERWISE NOTED. PROVID
ELATED TO ROADS, STORM DRAINAGE AND ED EL PASO COUNTY STANDARDS, EVIATIONS FROM RECULATIONS AND	5. STATIONING IS AT CENTERLINE UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE AT FLOWLINE UNLESS OTHERWISE NOTED.
WILL BE ENTIRELY THE DEVELOPER'S	6. PROPOSED CONTOURS SHOWN ARE TO FINISHED GRADE.
	7. LENGTHS SHOWN FOR STORM SEWER PIPES ARE TO CENTER OF MANHOLE.
STRUCTION PLANS. ANY MODIFICATIONS	8. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, DEBRIS, WASTE AND OTHER
CD) - INSPECTIONS, PRIOR TO STARTING	9. MATCH INTO EXISTING GRADES AT 3:1 MAX CUT AND FILL SLOPES.
	10. REVEGETATION OF ALL DISTURBED AREAS SHALL BE DONE WITH SPECIFIED SEED MIX WITHIN 30 DAYS A
L REQUIRED PERMITS, INCLUDING BUT NOT MENT PERMIT, U.S. ARMY CORPS OF	11. EROSION CONTROL SHALL CONSIST OF SILT FENCE AND OTHER BMP'S AS SHOWN ON THE DRAWINGS, AN VEGETATION HAS BEEN REESTABLISHED.
PCD. CONTRACTOR SHALL NOTIFY THE	12. THE EROSION CONTROL MEASURES OUTLINED ON THIS PLAN ARE THE RESPONSIBILITY OF THE DEVELOPE UNTIL VEGETATION IS REESTABLISHED.
	13. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN A MANNER THAT WILL PROTECT ADJACENT PRE EROSION AND SEDIMENTATION AS A RESULT OF CONSTRUCTION AND EARTHWORK ACTIVITIES WITHIN THE
ASO COUNTY PCD PRIOR TO PLACEMENT OF	14. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS DETERMINED BY SITE CONDITIONS.
	15. THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMA REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE C
AN 18 INCHES ABOVE FLOWLINE ARE NOT	16. PEDESTRIAN RAMPS SHALL BE INSTALLED AT ALL INTERSECTIONS AND CONFORM TO COUNTY ENGINEERIN
	17. ALL FINISHED GRADES SHALL HAVE A MINIMUM 0.5% SLOPE TO PROVIDE POSITIVE DRAINAGE.
SPECIAL TRANSPORT PERMITS.	18. WHERE PROPOSED SLOPES CONFLICT WITH PROPOSED SPOT ELEVATIONS, SPOT ELEVATIONS SHALL GOVE
LI OPTAIN WRITTEN DERMISSION AND	19. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO BEGINNING WORK.
ION.	20. ALL RESIDENTIAL STREET CURB RETURN RADII ARE 20-FEET AT FLOWLINE UNLESS OTHERWISE NOTED. OTHERWISE.
	21. 25-FOOT SIGHT VISIBILITY TRIANGLES SHALL BE PROVIDED AT ALL RESIDENTIAL STREET INTERSECTIONS. INTERSECTIONS. NO OBSTRUCTIONS TALLER THAN 18" ARE PERMITTED WITHIN THESE TRIANGLES.
N OF DOWNSTREAM PROPERTIES	22. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY AND ALL UTILITI
N OF DOWINGTICEAM FILOFERTIES	23. TYPE C STORM INLETS SHALL HAVE CLOSE-MESH GRATES.
	24. PROVIDE 10' TRANSITION FROM RAMP CURB TO VERTICAL CURB ON EACH SIDE OF STORM INLETS.
	25. ALL BACKFILL, SUB-BASE, AND/OR BASE COURSE MATERIAL SHALL BE COMPACTED PER EL PASO COUN GEOTECHNICAL REPORT. CONTRACTOR SHALL STABILIZE ALL SUBGRADE AREAS PER GEOTECHNICAL ENC
S (MUTCD).	

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LEGEND: NEW/EXISTING - - - - SECTION LINE - NEW/EXISTING ----- EASEMENT LINE - NEW/EXISTING - CONTOUR - NEW/EXISTING FENCE - NEW/EXISTING OVERHEAD ELECTRIC LINE W/ POWER POLE NEW/EXISTING UNDERGROUND ELECTRIC LINE ----- UGE NEW/EXISTING — UGE ——— ----- UGE · UNDERGROUND ELECTRIC - NEW/EXISTING ----- TEL ------ TEL TELEPHONE - NEW/EXISTING GAS - NEW/EXISTING —— GAS ——— _____ GAS -WATER - NEW/EXISTING - RAW WATER - NEW/EXISTING BACK OF CURB CURB FLOWLINE – CURB & GUTTER – NEW/FUTURE LIP OF CURB SECTION NUMBER **P1** SHEET ON WHICH SECTION IS SHOWN

IG UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING ACTUAL CONSTRUCTION. EYING. JPS ENGINEERING TAKES NO RESPONSIBILITY

Y OF THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND

IDE WATER-TIGHT JOINTS ON STORM SEWER PIPE. S OTHERWISE NOTED. ALL DIMENSIONS ARE FROM FACE OF CURB UNLESS

UNSUITABLE FILL MATERIAL FOUND WITHIN THE LIMITS OF EXCAVATION.

AFTER FINE GRADING IS COMPLETE. ND TOPSOIL WITH GRASS SEED, WHICH WILL BE WATERED UNTIL

PER TO MONITOR AND REPLACE, REGRADE, AND REBUILD AS NECESSARY

ROPERTIES AND PUBLIC FACILITIES FROM THE ADVERSE EFFECTS OF IE PROJECT SITE.

MAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE CONTRACTOR RING STANDARDS AND SPECIFICATIONS.

ERN.

ARTERIAL STREET CURB RETURN RADII ARE 35' UNLESS NOTED

50-FOOT SIGHT TRIANGLES SHALL BE PROVIDED AT ARTERIAL STREET

TIES INVOLVED IN PROJECT PRIOR TO MOBILIZING ON SITE.

JNTY AND CDOT STANDARDS AND SPECIFICATIONS AND PROJECT NGINEER'S RECOMMENDATIONS.







CONTRACTOR MAY WASTE EXCESS CUT MATERIAL OR BORROW SUITABLE FILL MATERIAL FROM THIS AREA . MAINTAIN POSITIVE DRAINAGE & MATCH INTO EXISTING GRADES WITH 3:1 MAX. SLOPE.

5 STORAGE AREA FOR BUILDING MATERIALS, EQUIPMENT & CONSTRUCTION WASTE (CONTRACTOR MAY ADJUST AS NEEDED)

ESTIMATED EARTHWORK QUANTITY:



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SHEET:

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19 E. Willamette Ave. Colorado Springs, CO 80903 PH: 719-477-9429







STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS:

REVISED 7/02/19

- . STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- . NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED. AND APPROVED. IN WRITING.
- 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 COUNTY STAFF.
- 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.
- . 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.
- . 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.
- 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 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 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 FACILITIES.
- 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 APPRI PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF C BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RE 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 TO MINIMIZE DUST FROM E EQUIPMENT AND WIND.
- 28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY CTL THOMPSON, DATED JULY 13, 2006 AND SHALL BE CONSIDERED A PART OF THESE PLAN
- 29. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWN OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PU HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:
- COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
- WATER QUALITY CONTROL DIVISION
- WQCD PERMITS
- 4300 CHERRY CREEK DRIVE SOUTH
- DENVER, CO 80246-1530 ATTN: PERMITS UNIT



SEEDING MIX:

CLEAN ROPRIATE CONFLICTS	GRASS	VARIETY	<u>AMOUNT IN PLS</u> LBS. PER ACRE
ESTRICTIVE	CRESTED WHEAT GRASS PERENIAL RYE WESTERN WHEATGRASS SMOOTH BROME GRASS SIDEOATS GRAMA	S EPHRAIM OR HYCR LINN SARTON LINCOLN OR MANCI EPHRAIM	EST 4.0 LBS. 2.0 LBS. 3.0 LBS. HAR 5.0 LBS. 2.5 LBS.
ARTHWORK		TOTAL:	16.5 LBS.
NS. NER OR	SEEDING & FERTILIZER	APPLICATION:	DRILL SEED OR IDRO-SEED PER C. SECTION 212.
JBLIC PLAN	MULCHING APPLICATION	I: CON SPE	IFORM TO CDOT C-SECTION 213.



Grading and Erosion Control Plan_V1.pdf Markup Summary





Subject: SW - Textbox with Arrow Page Label: 4 Author: Glenn Reese - EPC Stormwater Date: 9/12/2022 1:30:51 PM Status: Color: ■ Layer: Space:

Per ECM Chap3.3.1.C - Min pipe size is 18" diameter

9/12/2022 1:34:30 PM (1)



Subject: SW - Textbox with Arrow Page Label: 4 Author: Glenn Reese - EPC Stormwater Date: 9/12/2022 1:34:30 PM Status: Color: ■ Layer: Space:

9/12/2022 1:36:43 PM (1)



Subject: SW - Textbox with Arrow Page Label: 4 Author: Glenn Reese - EPC Stormwater Date: 9/12/2022 1:36:43 PM Status: Color: ■ Layer: Space:

9/12/2022 1:48:03 PM (1)



Subject: SW - Textbox with Arrow Page Label: 4 Author: Glenn Reese - EPC Stormwater Date: 9/12/2022 1:48:03 PM Status: Color: ■ Layer: Space:

Did this leader line get cutoff?

9/12/2022 1:49:03 PM (1)

DETENTION BASIN

Subject: SW - Textbox with Arrow Page Label: 4 Author: Glenn Reese - EPC Stormwater Date: 9/12/2022 1:49:03 PM Status: Color: ■ Layer: Space:

Is this labeling the existing pond? Clarify. Per previous FDR, existing pond is "Detention Basin 11"

9/12/2022 1:49:16 PM (1)



Subject: SW - Textbox with Arrow Page Label: 4 Author: Glenn Reese - EPC Stormwater Date: 9/12/2022 1:49:16 PM Status: Color: ■ Layer: Space:

Label proposed pond name per my comment on drainage letter pdf pg 6.

9/12/2022 1:58:53 PM (1)



Subject: SW - Textbox with Arrow Page Label: 4 Author: Glenn Reese - EPC Stormwater Date: 9/12/2022 1:58:53 PM Status: Color: ■ Layer: Space:

Consider having control joints every ~10ft.

Why no trickle channel to outlet structure?

And why no forebay?

It is unclear without hatching or further details how far the access road extends to/from (ie: length unknown)

9/12/2022 12:32:02 PM (1)



Subject: SW - Textbox Page Label: 3 Author: Glenn Reese - EPC Stormwater Date: 9/12/2022 12:32:02 PM Status: Color: ■ Layer: Space:

9/12/2022 12:34:29 PM (1)



Subject: SW - Textbox with Arrow Page Label: 1 Author: Glenn Reese - EPC Stormwater Date: 9/12/2022 12:34:29 PM Status: Color: ■ Layer: Space:

PPR2248

9/12/2022 12:34:43 PM (1)



Subject: SW - Textbox with Arrow Page Label: 1 Author: Glenn Reese - EPC Stormwater Date: 9/12/2022 12:34:43 PM Status: Color: ■ Layer: Space:

Revise to: Joshua Palmer, P.E.,

9/12/2022 2:03:44 PM (1)

COUPLINGS & EXTEND 6" PVC (SDR35) AT 1.0% MIN. SLOPE TO Subject: SW - Textbox Page Label: 3 Author: Glenn Reese - EPC Stormwater Date: 9/12/2022 2:03:44 PM Status: Color: ■ Layer: Space:

GEC Checklist Item "i" - add a note about condition of existing vegetation.

9/12/2022 2:04:49 PM (1)



Subject: SW - Textbox with Arrow Page Label: 3 Author: Glenn Reese - EPC Stormwater Date: 9/12/2022 2:04:49 PM Status: Color: ■ Layer: Space:

Regional Building Department permit required for all retaining walls greater than or equal to 4 ft in height.

9/12/2022 2:21:06 PM (1)

ENG

DESIG THESI DIREC PREP/ DETAI SPECI WITH. PLANS THE P



Subject: SW - Textbox with Arrow Page Label: 1 Author: Glenn Reese - EPC Stormwater Date: 9/12/2022 2:21:06 PM Status: Color: ■ Layer: Space:

Revise to match GEC Checklist Item "ff"

Show sufficient offsite flow arrows to clarify where there is any potential for run-on to the site.

9/12/2022 2:21:18 PM (1)



3

Subject: SW - Textbox with Arrow Page Label: 1 Author: Glenn Reese - EPC Stormwater Date: 9/12/2022 2:21:18 PM Status: Color: ■ Layer: Space:

9/14/2022 2:23:13 PM (1)



Subject: Callout Page Label: 3 Author: dsdlaforce Date: 9/14/2022 2:23:13 PM Status: Color: Layer: Space:

9/14/2022 2:40:05 PM (1)



Subject: Callout Page Label: 3 Author: dsdlaforce Date: 9/14/2022 2:40:05 PM Status: Color: Layer: Space:

9/14/2022 2:43:17 PM (1)



Subject: Callout Page Label: 3 Author: dsdlaforce Date: 9/14/2022 2:43:17 PM Status: Color: C

9/14/2022 2:45:50 PM (1)

Space:



Subject: Callout Page Label: 3 Author: dsdlaforce Date: 9/14/2022 2:45:50 PM Status: Color: Layer: Space:

Revise to match GEC Checklist Item "hh"

Verify slope of existing inlet top. This will need to be reset/modified to ensure compliance of ADA requirements for 2% max cross-slope.

Existing ramps shall be removed.

update label to identify the width of existing sidewalk.

If existing is 6' wide then a transition taper may be required to go down to 5' wide proposed sidewalk.

verify and update label to identify the width of existing sidewalk. The Struthers Ranch Fil 2 construction drawings shows 5' sidewalk for the local road.

Revise the proposed sidewalk width to 5'

9/14/2022 2:45:59 PM (1)



Subject: Callout Page Label: 3 Author: dsdlaforce Date: 9/14/2022 2:45:59 PM Status: Color: Layer: Space:

include or reference the County ramp details.

9/15/2022 10:03:21 AM (1)



Subject: Text Box Page Label: 3 Author: Ipackman Date: 9/15/2022 10:03:21 AM Status: Color: Layer: Space:

Show sight distance easements required on site plan per traffic study. See snippet. Note: there shall be no obstructions that are taller than 30" above Struthers Road flowline per ECM 2.3.6.G.2. It appears parking lot retaining walls are already exceeding allowed heights per Struthers Road flowline elevation of 6757'. Revise site layout to meet criteria.

9/15/2022 2:33:48 PM (1)



9/15/2022 7:18:49 AM (1)



Subject: Highlight Page Label: 4 Author: dsdlaforce Date: 9/15/2022 7:18:49 AM Status: Color: Layer: Space:

9/15/2022 7:18:50 AM (1)

SL=6756.86 ▼ HINGED_ :6753.71 Subject: Highlight Page Label: 4 Author: dsdlaforce Date: 9/15/2022 7:18:50 AM Status: Color: Layer: Space:

9/15/2022 7:22:25 AM (1)



Subject: Callout Page Label: 3 Author: dsdlaforce Date: 9/15/2022 7:22:25 AM Status: Color: Layer: Space:

revise to 5' sidewalk.

detail. Include spot elevation at the back of sidewalk and/or top back of curb.

Include the existing inlet and C&G in the section

9/15/2022 7:29:41 AM (1)



Subject: Callout Page Label: 4 Author: dsdlaforce Date: 9/15/2022 7:29:41 AM Status: Color: Layer: Space:

Update the drainage report to describe the 100yr conveyance. Base on the elevations the pond is designed to use the spillway to discharge the 100yr flow into existing inlet.

Considering the existing inlet grate elevation is at 6756.48 it unclear how effective the current design will function that would allow 100% capture of flow versus bypassing the existing inlet and going into Struthers Road.

Either:

a. Provide an enlarge detail of the spillway and existing inlet with sufficient spot elevations and analysis to show no by-pass occurs, or
b. adjust the spillway elevation so the entire 100yr flow drains through the outlet structure.

9/15/2022 7:57:15 AM (1)



Subject: Callout Page Label: 4 Author: dsdlaforce Date: 9/15/2022 7:57:15 AM Status: Color: Layer: Space:

Remove or explain why a restrictor plate is necessary since the pond is designed for water quality only.

The pond should be designed so WQCV release is controlled by the orifice plate upstream of the restriction plate. All other flows going into the top of the outlet structure should just pass straight through the outlet pipe and into the existing pond which is designed to control the design storm release rates.

9/15/2022 9:58:15 AM (1)



Subject: Image Page Label: 3 Author: Ipackman Date: 9/15/2022 9:58:15 AM Status: Color: Layer: Space: