

### **GENERAL UTILITY NOTES:**

1. CONSTRUCTION SHALL MEET THE STANDARDS & SPECIFICATIONS OF THE CHEROKEE METROPOLITAN DISTRICT. 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD LOCATION 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 ACTUAL CONSTRUCTION.

- 4. SANITARY SEWER PIPE SHALL BE PVC ASTM D3034-SDR35 UNLESS OTHERWISE NOTED.
- 5. STATIONING IS AT CENTERLINE UNLESS OTHERWISE NOTED.

8. ALL TRENCH BEDDING, THRUST BLOCKS AND REVERSE ANCHORS SHALL BE INSTALLED PER DISTRICT STANDARDS. ALL WATER PIPE SHALL BE PVC "C900 CLASS 200 DR-14" WITH TRACER WIRE UNLESS OTHERWISE NOTED OR REQUIRED BY THE DISTRICT. DISINFECTION AND TESTING SHALL BE COMPLETED PER DISTRICT SPECIFICATIONS.

SHUTDOWNS NECESSARY TO CONNECT TO EXISTING LINES.

11. BENDS, DEFLECTION & CUT PIPE LENGTHS SHALL BE USED TO HOLD HORIZONTAL ALIGNMENT OF SEWER AND WATER LINES TO 10 FEET SEPARATION AT ALL POINTS REQUIRED. ALIGNMENT CONSTRUCTION STAKES SHALL BE PLACED AT 25' INTERVALS ALONG CURVES FOR PLACEMENT OF SEWER AND WATER LINES.

THRUST BLOCKS.

13. WHEREVER DUCTILE IRON PIPE IS USED, THE PIPE, FITTINGS AND HYDRANTS SHALL BE WRAPPED IN POLYETHYLENE & CATHODIC PROTECTION SHALL BE PROVIDED PER DISTRICT STANDARDS.

14. SERVICE LINES SHALL BE INSTALLED PER DISTRICT STANDARDS.

15. CONTRACTOR SHALL COORDINATE WITH GAS, ELECTRIC, TELEPHONE AND CABLE T.V. UTILITY SUPPLIERS FOR INSTALLATION OF ALL UTILITIES. MINIMUM COVER FOR ALL NON-CITY UTILITIES SHALL BE 36". 16. REFER TO MECHANICAL DRAWINGS FOR EXTENSION OF UTILITIES INTO BUILDINGS.

17. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, DEBRIS, WASTE AND OTHER UNSUITABLE FILL MATERIAL FOUND WITHIN THE LIMITS OF EXCAVATION.

# CHEROKEE METROPOLITAN DISTRICT STANDARD WATER AND SANITARY SEWER SYSTEM CONSTRUCTION NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH CHEROKEE METROPOLITAN DISTRICT STANDARDS AND THE CITY OF COLORADO SPRINGS CONSTRUCTION STANDARDS UNLESS NOTED OTHERWISE. IN THE EVENT OF CONFLICTING STANDARDS CHEROKEE METROPOLITAN DISTRICT STANDARDS SHALL GOVERN. 2. ALL WATER SYSTEM MAINS PIPE MATERIAL SHALL BE POLYVINYL CHLORIDE (PVC) CLASS 200 (DR-14) PER AWWA C-900 AND ASTM D241 SPECIFICATIONS, EXCEPT WHERE NOTED. SPECIFICALLY, SECTIONS OF WATER PIPE THAT CROSS UNDER MAJOR DRAINAGE WAYS (SAND CREEK) OR MAJOR THOROUGHFARES SHALL BE DUCTILE IRON PIPE.

3. ALL FITTINGS SHALL BE CONSTRUCTED OF GRAY-IRON MATERIAL AND FURNISHED WITH MECHANICAL JOINT ENDS. ALL FITTINGS SHALL HAVE A MINIMUM PRESSURE RATING OF 250 PSI AND SHALL BE WRAPPED WITH A 9-MIL THICKNESS POLYETHYLENE MATERIAL PER AWWA STANDARD C105. ALL FITTINGS SHALL HAVE ANODES CAD WELDED.

4. ALL WATER PIPES SHALL BE INSTALLED AT A MINIMUM DEPTH OF FIVE (5) FEET BELOW FINISHED GRADE.

5. ALL BENDS, TEE, FIRE HYDRANTS, BLOW-OFFS, AND PLUGS AT DEAD END MAINS SHALL BE INSTALLED WITH CONCRETE THRUST BLOCKS. 6. VALVE BOXES SHALL BE TYLER SLIP; TYPE C CAST IRON VALVE BOX ASSEMBLY SERIES 6860 WITH NO. 160 OVAL BASE OR APPROVED EQUAL.

7. ALL WATER SYSTEM COMPONENTS SHALL BE FLUSHED AND CHLORINATED PER AWWA C-601, 'DISINFECTING WATER MAINS" PRIOR ACCEPTANCE. THE CONTRACTOR SHALL PRODUCE A 25 MG/L SOLUTION BY ADHERING CHLORINE TABLETS TO THE PIPE SECTION WITH PERMATEX CLEAR TRV INSIDE THE SYSTEM. CHLORINATION SHALL OCCUR PRIOR TO HYDROSTATIC TESTING. THE CONTRACTOR SHALL OBTAIN A BACTERIOLOGICAL SAMPLE AFTER THE SYSTEM HAS BEEN FLUSHED. A CLEAN BACTERIOLOGICAL SAMPLE MUST BE OBTAINED PRIOR TO THE SYSTEM BEING PLACED INTO SERVICE.

HYDROSTATIC TESTING: ALL WATER SYSTEM MAINS SHALL BE FIELD PRESSURE TESTED TO A MINIMUM OF 150 PSI OR 11/2 TIMES THE STATIC OPERATING PRESSURE, WHICH EVER IS GREATER. MAXIMUM ALLOWABLE LEAKAGE FOR EACH SECTION OF PIPE BETWEEN LINE VALVES SHALL NOT EXCEED THE FOLLOWING: \*10 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY. 9. ALL VALVES SHALL CONFORM TO OPEN LEFT CONVENTION PER CHEROKEE METROPOLITAN DISTRICT STANDARDS. WHEN IT IS NECESSARY TO RAISE OR LOWER WATER MAINS AT OTHER UTILITY CROSSINGS THE CONTRACTOR SHALL INSURE A MINIMUM CLEARANCE OF 18" WHERE POSSIBLE BETWEEN THE OUTSIDE DIAMETERS OF PIPES.

11. WHILE CONSTRUCTING THE WATER AND WASTE WATER SYSTEM THE CONTRACTOR SHALL HAVE IN HIS POSSESSION AT LEAST ONE "APPROVED FOR CONSTRUCTION: SET OF UPDATED PLANS AT ALL TIMES. APPROVED FIELD MODIFICATIONS TO PLAN SETS SHALL BE CLEARLY IDENTIFIED IN RED INK ON THE PLANS BY THE CONTRACTOR PER FIELD CONSTRUCTION. THESE AS-BUILT CHANGES SHALL BE DATED AND SUBMITTED TO THE ENGINEER OF RECORD. THE ENGINEER OF RECORD SHALL PREPARE A COMPLETE SET OF "AS CONSTRUCTED" DRAWINGS AND DELIVER THE SETS TO THE CHEROKEE METROPOLITAN DISTRICT PRIOR TO FINAL ACCEPTANCE OF THE WATER SYSTEM.

WITH THE CHEROKEE METROPOLITAN DISTRICT STANDARDS. 13. ALL NONMETALLIC PIPES SHALL HAVE A TRACER WIRE ATTACHED TO ITS TOP DURING CONSTRUCTION. THE TRACER WIRE SHALL BE #12 AWG INSULATED COPPER WIRE NO 12 COPPER CONNECTORS AND SHALL BE PERMANENTLY AFFIXED TO THE TOP OF THE PIPE USING TAPE AT 4' INTERVALS. THE TRACER WIRE SHALL ALSO BE PERMANENTLY CONNECTED TO ALL FIRE HYDRANT TEE, METALLIC PIPE BENDS, MAIN VALVE AND OTHER METALLIC FITTINGS AND APPURTENANCES. ALL POINTS OF CONNECTION SHALL BE PROTECTED FROM CORROSION BY AN EPOXY OR SILICON COATING. GROUND TRACER WIRES TO SURFACE AT ALL VALVE BOXES.

14. THE CONTRACTOR ASSUMES RESPONSIBILITY FOR THE PROTECTION OF ALL UTILITIES DURING THE WORK. PRIOR TO ANY EXCAVATION, CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT (800) 922-1987 AT LEAST TWO WORKING DAYS PRIOR TO DIGGING. 15. SANITARY SEWER PIPE SHALL CONFORM TO ASTM D3034 SDR35 PVC.

16. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF EXISTING INVERTS PRIOR TO INSTALLATION OF NEW SANITARY SEWER SYSTEM. ALL SANITARY SEWER MANHOLES, LIDS, BASES AND OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH (IAW) COLORADO SPRINGS DETAILS STANDARD MANHOLE DETAIL 1. EXCEPT AS NOTED ON THESE PLANS. WHERE REQUIRED ON THESE PLANS, WATER TIGHT MANHOLES, LIDS AND CONNECTIONS SHALL BE PROVIDED IAW COLORADO SPRINGS STANDARDS. 18. SANITARY SEWER SERVICE LINES SHALL BE LOCATED PER THE DETAIL ON THE UTILITY SERVICE PLAN, OR AT THE DIRECTION OF THE INSPECTOR 19. OVERLOT GRADING AND STREET SUB GRADE MUST BE WITHIN ONE (1) FOOT PRIOR TO ANY UTILITY INSTALLATION. 20. TRACER WIRE IS TO BE INSTALLED WITH ALL SANITARY SEWER MAIN LINES AND SERVICES (FROM THE MAN LINE TO THE BUILDING

STRUCTURE). AS OUTLINED IN COMMENT #13 21. MINIMUM DEPTH OF SANITARY SEWER IS 6 FEET OF COVER, IF THIS MINIMUM CANNOT BE ACHIEVED DUE TO SHALLOW SEWER STUB THEN THE FOLLOWING APPLIES; OTHERWISE THE SEWER SERVICE MUST HAVE 6 FEET OF COVER:

DEPTH GREATER THAN 6 FEET; MATERIAL TYPE SDR 35 DEPTH BETWEEN 4 FEET AND 6 FEET; MATERIAL TYPE SCH 40 OR CAST IRON PIPE (CIP) DEPTH LESS THAN 4 FEET; MATERIAL TYPE SCH 40 OR CIP WITH CONCRETE CAP. 22. WATER SERVICE MUST BE OVER THE SEWER AT ALL TIMES. SEWER SERVICE PIPE LOCATED WITHIN ONE FOOT OF THE WATER SERVICE LINE MUST BE CONSTRUCTED WITH SCH 40 PIPE OR CIP

23. ALL EXTERIOR SEWER CLEAN OUTS (CO) MUST HAVE A CAST IRON, TRAFFIC RATED COVER, OR EQUIVALENT WITH CONCRETE COLLAR. 24. SPECIFIC SIZE APPLICATION OF THE SAND/OIL AND OR GREASE TRAP TO BE DETERMINED BY CHEROKEE METRO DISTRICT, WITH THE MINIMUM SIZE TO BE 1500 GALLON. 25. UPON COMPLETION OF CONSTRUCTION AND PRIOR TO ACCEPTANCE BY THE DISTRICT, TWO (2) COPIES OF "AS-CONSTRUCTED" PLANS

AND TWO (2) SETS OF ELECTRONIC DATA FILES OF THE PLANS SHALL BE SUBMITTED TO THE DISTRICT FOR RECORD. A. THE TWO (2) COPIES SHALL BE COMPLETE WITH ALL "AS-CONSTRUCTED" INFORMATION TOGETHER WITH A CERTIFICATION BY THE PARTY RESPONSIBLE FOR CONSTRUCTION THAT ALL DATA THEREON IS ACCURATE AND REPRESENTS ACTUAL CONSTRUCTED CONDITIONS.

B. THE TWO PLAN SETS SHALL BE SUBMITTED ON SHEETS THAT ARE 24" X 36" IN SIZE.

C. THE PLAN SET SHALL BE ON A DURABLE MEDIA THAT CAN BE RUN THROUGH PHOTOCOPYING EQUIPMENT.

D. THE TWO ELECTRONIC DATA FORMATS SHALL BE SUBMITTED. THE FIRST ELECTRONIC DATA FILE SET SHALL BE IN AUTOCAD 2006 OR NEWER FORMAT WITH NO EXTERNAL REFERENCE DRAWINGS. ALL EXTERNAL REFERENCES MUST BE BOUND INTO THE DRAWING SET. THE SECOND SET OF ELECTRONIC DATA FILES SHALL BE IN ADOBE ACROBAT .PDF FORMAT.

DOCUMENTS HAVE BEEN RECEIVED AND ACCEPTED BY THE DISTRICT.

G. ALL PLANS, SPECIFICATIONS AND SUPPORTING DOCUMENTS SHALL BE PREPARED BY OR UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF COLORADO. ALL PLANS AND SPECIFICATIONS SHALL BEAR THE SEAL AND SIGNATURE OF SAID LICENSED PROFESSIONAL ENGINEER.

3. REVEGETATION OF ALL DISTURBED SLOPES SHALL BE DONE WITH DRY LAND GRASS SEED AFTER FINE GRADING IS COMPLETE.

6. ALL ELEVATIONS ARE AT FLOWLINE UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE FROM FACE OF CURB UNLESS OTHERWISE NOTED. 7. CURB RETURN RADII ARE 20-FEET AT FLOWLINE UNLESS OTHERWISE NOTED.

9. LENGTHS SHOWN FOR STORM SEWER PIPES ARE TO CENTER OF MANHOLE.

10. CONTRACTOR SHALL MAKE WATER CONNECTIONS WITHOUT SHUTDOWN OR NOTIFY THE DISTRICT AND AFFECTED RESIDENTS OF ANY SERVICE

12. FIRE HYDRANT ASSEMBLIES SHALL BE INSTALLED PER DISTRICT STANDARDS AND SHALL INCLUDE LATERAL, VALVE, ELBOW, HYDRANT, AND

18. REFER TO THE PROJECT GEOTECHNICAL REPORT FOR BACKFILL AND COMPACTION SPECIFICATIONS.

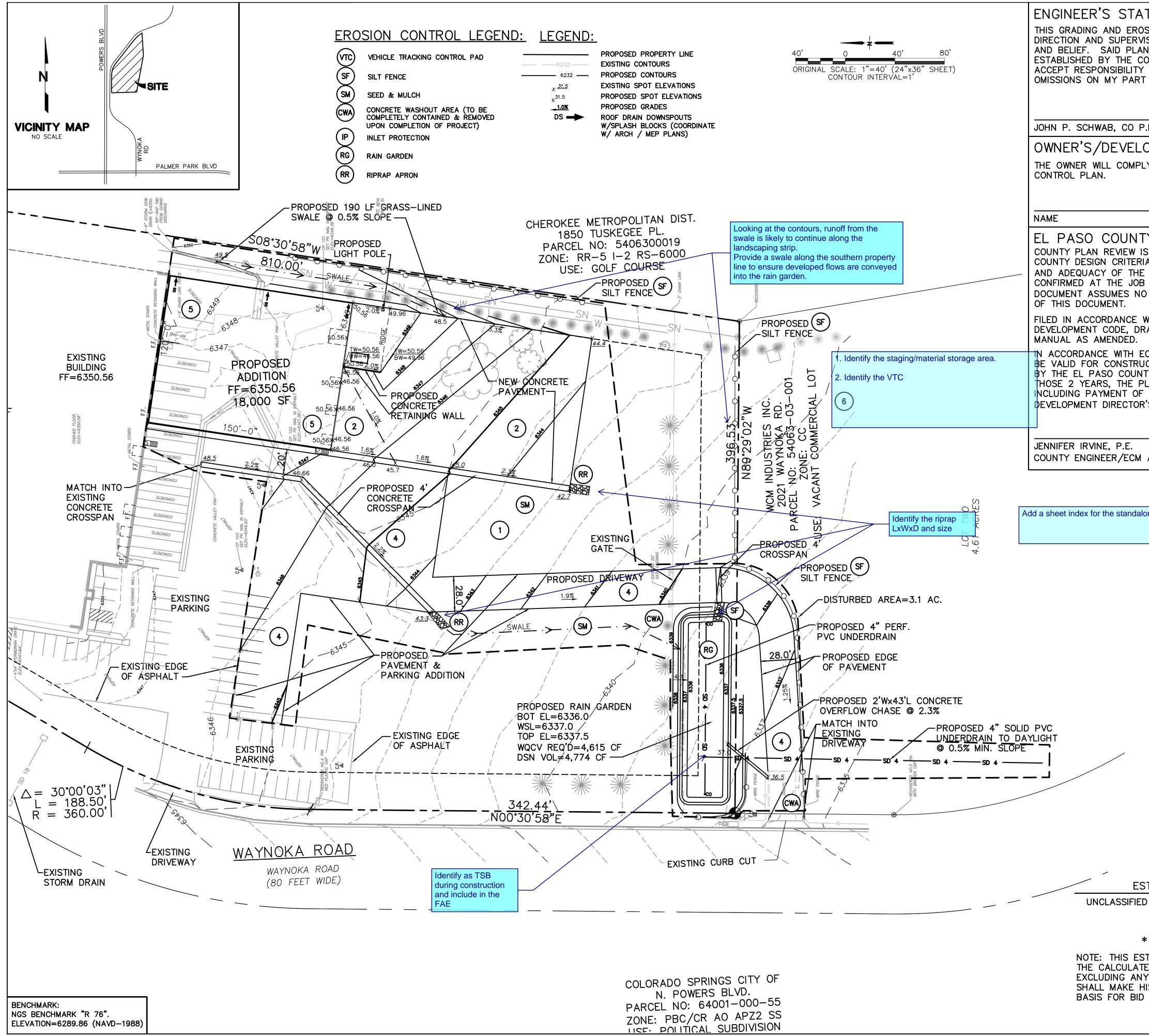
PRIOR TO TAPPING ANY EXISTING WATER MAIN THE CONTRACTOR SHALL SUBMIT AND RECEIVE APPROVAL FOR SAID TAP IN ACCORDANCE

E. "AS-CONSTRUCTED" PLANS SHALL BE SUBMITTED WITHIN TWO WEEKS OF COMPLETION OF THE WATER AND/OR SANITARY SEWER UTILITIES.

F. NO AUTHORIZATION TO CONNECT TO THE SYSTEM OR DISCHARGE TO THE SYSTEM WILL BE ALLOWED UNTIL THE "AS-CONSTRUCTED"

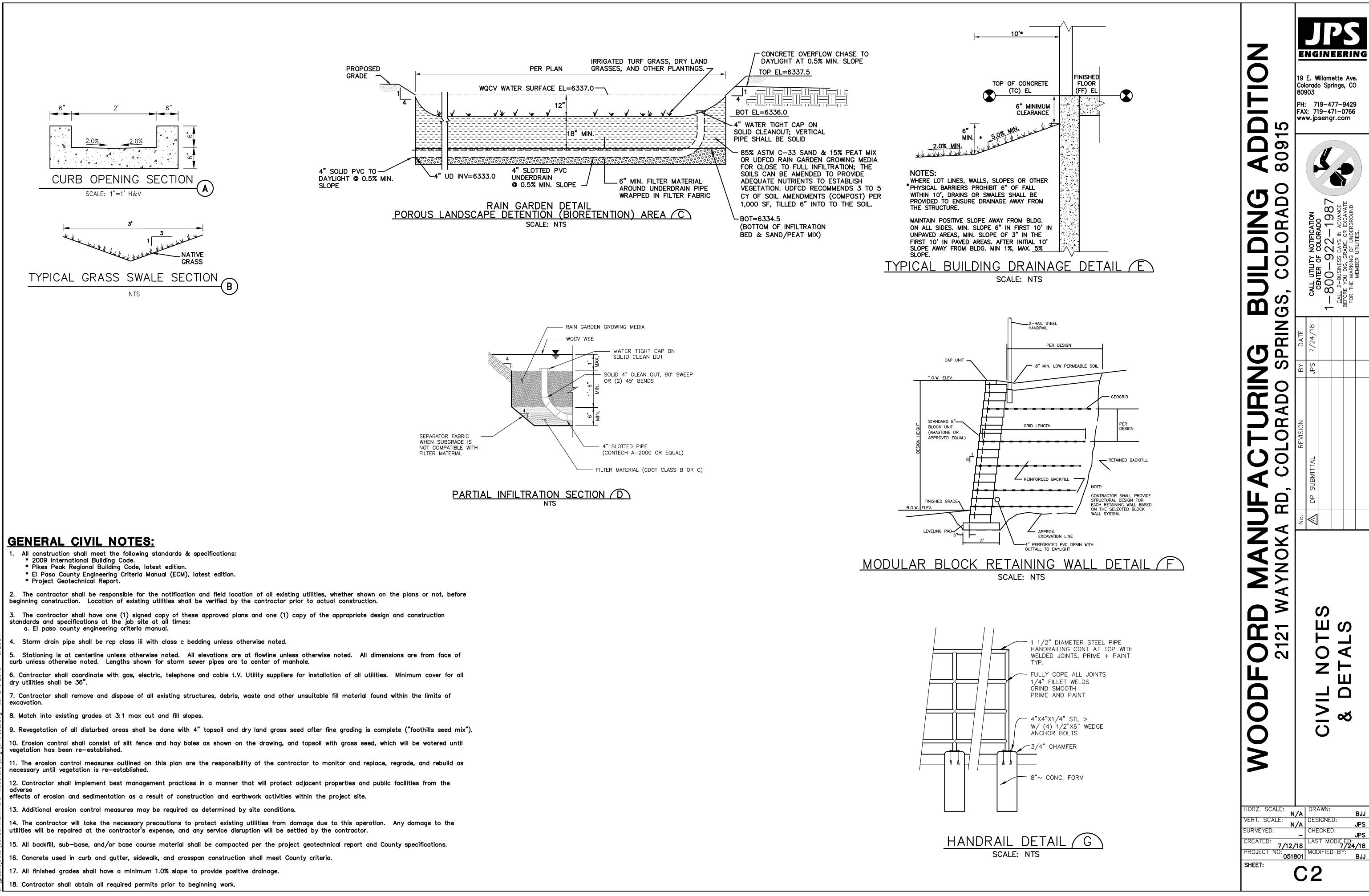
Remove the site utility plan from the standalone GEC and upload as a separate document.

2121 WAYNOKA RD, CO	UTILITY LAN
COLORADO SPRINGS,	REVISION
SPRING	BY DATE UPS 7/24/18
S, COLORADO	CALL UTILITY NOTIFICATION CENTER OF COLORADO 1-800-922-1987 CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITES.
80915	19 E. Willamette Ave. Colorado Springs, CO 80903 PH: 719-477-9429 FAX: 719-471-0766 www.jpsengr.com



PPR1837

TEMENT: SION CONTROL PLAN WAS PREPARED UNDER MY SION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE I HAS BEEN PREPARED ACCORDING TO THE CRITERIA DUNTY FOR GRADING AND EROSION CONTROL PLANS. I FOR LIABILITY CAUSED BY NEGLIGENT ACTS, ERRORS OR IN PREPARATION OF THIS PLAN.	NO	<b>IDENTIFY and Service Ave.</b> Colorado Springs, CO 80903
	E	PH: 719–477–9429
E. 29891 DATE	δ	FAX: 719–471–0766 www.jpsengr.com
OPER'S STATEMENT: Y WITH THE REQUIREMENTS OF THE GRADING AND EROSION	A V V	
DATE		
Y: 5 PROVIDED ONLY FOR GENERAL CONFORMANCE WITH A. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE SITE. THE COUNTY THROUGH THE APPROVAL OF THIS 6 RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND AINAGE CRITERIA MANUAL, AND ENGINEERING CRITERIA CM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL CTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED TY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN ANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, REVIEW FEES AT THE PLANNING AND COMMUNITY 'S DISCRETION.	AG BUILDING RINGS, COLORADO 8(	Y DATE CALL UTILITY NOTIFICATION S 7/24/18 1-800-922-1987 CENTER OF COLORADO CENTER OF COLORADO CENTER OF COLORADO CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.
DATE		R S S S S
ADMINISTRATOR	$\sim$	
Image: Market Stripping S	<b>NUFACT</b> RD, COLORA	No. REVISION
<ul> <li>GEOTECHNICAL REPORT; MIN. 6")</li> <li>PREPARE &amp; COMPACT BUILDING FOUNDATION, SLABS, &amp; PAVEMENT PER PROJECT GEOTECHNICAL REPORT</li> <li>CONTRACTOR MAY WASTE EXCESS CUT OR BORROW SUITABLE FILL MATERIAL FROM THIS AREA; MAINTAIN POSITIVE DRAINAGE &amp; MATCH INTO EXISTING GRADES W/ 3:1 MAX. SLOPES</li> </ul>	WOODFORD MAN 2121 WAYNOKA	SITE GRADING & EROSION CONTROL PLAN
EXCAVATION (TOTAL CUT) = 374 CY * EMBANKMENT FILL = 1,357 CY NET (FILL) = 983 CY (ASSUMES 15% COMPACTION FACTOR)	HORZ. SCALE: 1"=	40' DRAWN: BJJ
TIMATE IS PROVIDED FOR INFORMATION ONLY, REPRESENTING ED BULK EARTHWORK VOLUME TO FINISHED GRADE, ' ADJUSTMENT FOR PAVEMENT DEPTHS, ETC. CONTRACTOR IS OWN DETERMINATION OF EARTHWORK QUANTITIES AS PRICING AND NOTIFY ENGINEER OF ANY DISCREPANCIES.	N SURVEYED: CREATED: PROJECT NO: 0512 SHEET:	/A         JPS           CHECKED:         JPS           /18         LAST MODIFIED:           7/24/18         MODIFIED BY:           B01         BJJ
PCD PROJECT NO. XX		21.1



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

- 1. Construction may not commence until a Construction Permit is obtained from Development Services and a Preconstruction Conference is held with Development Services Inspectors. 2. Stormwater discharges from construction sites shall not cause or threaten to cause pollution, contamination, or degradation of State Waters. All work and earth disturbance shall be done in a manner that minimizes pollution of any on-site or off site waters, including wetlands.
- 3. Notwithstanding anything depicted in these plans in words or graphic representation, all design and construction related to roads, storm drainage and erosion control shall conform to the standards and requirements of the most recent version of the relevant adopted El Paso County standards, including the Land Development Code, the Engineering Criteria Manual, the Drainage Criteria Manual, and the Drainage Criteria Manual Volume 2. Any deviations to regulations and standards must be requested, and approved, in writing.
- 4. A separate Stormwater Management Plan (SMWP) for this project shall be completed and an Erosion and Stormwater Quality Control Permit (ESQCP) issued prior to commencing construction. During construction the SWMP is the responsibility of the designated Stormwater Manager, shall be located on site at all times and shall be kept up to date with work progress and changes in the field.
- 5. Once the ESQCP has been issued, the contractor may install the initial stage erosion and sediment control BMPs as indicated on the GEC. A preconstruction meeting between the contractor, engineer, and El Paso County will be held prior to any construction. It is the responsibility of the applicant to coordinate the meeting time and place with County DSD inspections staff.
- 6. Soil erosion control measures for all slopes, channels, ditches, or any disturbed land area shall be completed within 21 calendar days after final grading, or final earth disturbance, has been completed. Disturbed areas and stockpiles which are not at final grade but will remain dormant for longer than 30 days shall also be mulched within 21 days after interim grading. An area that is going to remain in an interim state for more than 60 days shall also be seeded. All temporary soil erosion control measures and BMPs shall be maintained until permanent soil erosion control measures are implemented and established.
- 7. Temporary soil erosion control facilities shall be removed and earth disturbance areas graded and stabilized with permanent soil erosion control measures pursuant to standards and specification prescribed in the DCM Volume II and the Engineering Criteria Manual (ECM) appendix I.
- 8. All persons engaged in earth disturbance shall implement and maintain acceptable soil erosion and sediment control measures including BMPs in conformance with the erosion control technical standards of the Drainage Criteria Manual (DCM) Volume II and in accordance with the Stormwater Management Plan (SWMP).
- 9. All temporary erosion control facilities including BMPs and all permanent facilities intended to control erosion of any earth disturbance operations, shall be installed as defined in the approved plans, the SWMP and the DCM Volume II and maintained throughout the duration of the earth disturbance operation.
- 10. Any earth disturbance shall be conducted in such a manner so as to effectively reduce accelerated soil erosion and resulting sedimentation. All disturbances shall be designed, constructed, and completed so that the exposed area of any disturbed land shall be limited to the shortest practical period of time.
- 11. Any temporary or permanent facility designed and constructed for the conveyance of stormwater around, through, or from the earth disturbance area shall be designed to limit the discharge to a non-erosive velocity.
- 12. Concrete wash water shall be contained and disposed of in accordance with the SWMP. No wash water shall be discharged to or allowed to runoff to State Waters, including any surface or subsurface storm drainage system or facilities.
- 13. Erosion control blanketing is to be used on slopes steeper than 3:1.
- 14. Building, construction, excavation, or other waste materials shall not be temporarily placed or stored in the street, alley, or other public way, unless in accordance with an approved Traffic Control Plan. BMP's may be required by El Paso County Engineering if deemed necessary, based on specific conditions and circumstances.
- 15. Vehicle tracking of soils and construction debris off-site shall be minimized. Materials tracked offsite shall be cleaned up and properly disposed of immediately.
- 16. Contractor shall be responsible for the removal of all wastes from the construction site for disposal in accordance with local and State regulatory requirements. No construction debris, tree slash, building material wastes or unused building materials shall be buried, dumped, or discharged at the site.
- 17. The owner, site developer, contractor, and/or their authorized agents shall be responsible for the removal of all construction debris, dirt, trash, rock, sediment, and sand that may accumulate in the storm sewer or other drainage conveyance system and stormwater appurtenances as a result of site development.
- 18. The quantity of materials stored on the project site shall be limited, as much as practical, to that quantity required to perform the work in an orderly sequence. All materials stored on-site shall be stored in a neat, orderly manner, in their original containers, with original manufacturer's labels.
- 19. No chemicals are to be used by the contractor, which have the potential to be released in stormwater unless permission for the use of a specific chemical is granted in writing by the ECM Administrator. In granting the use of such chemicals, special conditions and monitoring may be required.
- 20. Bulk storage structures for petroleum products and other chemicals shall have adequate protection so as to contain all spills and prevent any spilled material from entering State Waters, including any surface or subsurface storm drainage system or facilities.
- 21. No person shall cause the impediment of stormwater flow in the flow line of the curb and gutter or in the ditchline.
- 22. Individuals shall comply with the "Colorado Water Quality Control Act" (Title 25, Article 8, CRS), and the "Clean Water Act" (33 USC 1344), in addition to the requirements included in the DCM Volume II and the ECM Appendix I. All appropriate permits must be obtained by the contractor prior to construction (NPDES, Floodplain, 404, fugitive dust, etc.). In the event of conflicts between these requirements and laws, rules, or regulations of other Federal, State, or County agencies, the more restrictive laws, rules, or regulations shall apply.
- 23. All construction traffic must enter/exit the site at approved construction access points.
- 24. Prior to actual construction the permitee shall verify the location of existing utilities.
- 25. A water source shall be available on site during earthwork operations and utilized as required to minimize dust from earthwork equipment and wind.
- 26. The preliminary soils report for this site prepared by Entech Engineering, dated 2/18/13 shall be considered a part of these plans.
- 27. At least ten days prior to the anticipated start of construction, for projects that will disturb 1 acre or more, the owner or operator of construction activity shall submit a permit application for stormwater discharge to the Colorado Department of Public Health and Environment, Water Quality Division. The application contains certification of completion of a stormwater management plan (SWMP), of which this grading and erosion control plan may be a part. For information or application materials contact:

Colorado Department of Public Health and Environment Water Quality Control Division WQCD - Permits 4300 Cherry Creek Drive South Denver, CO 80246-1530

Attn: Permits Unit

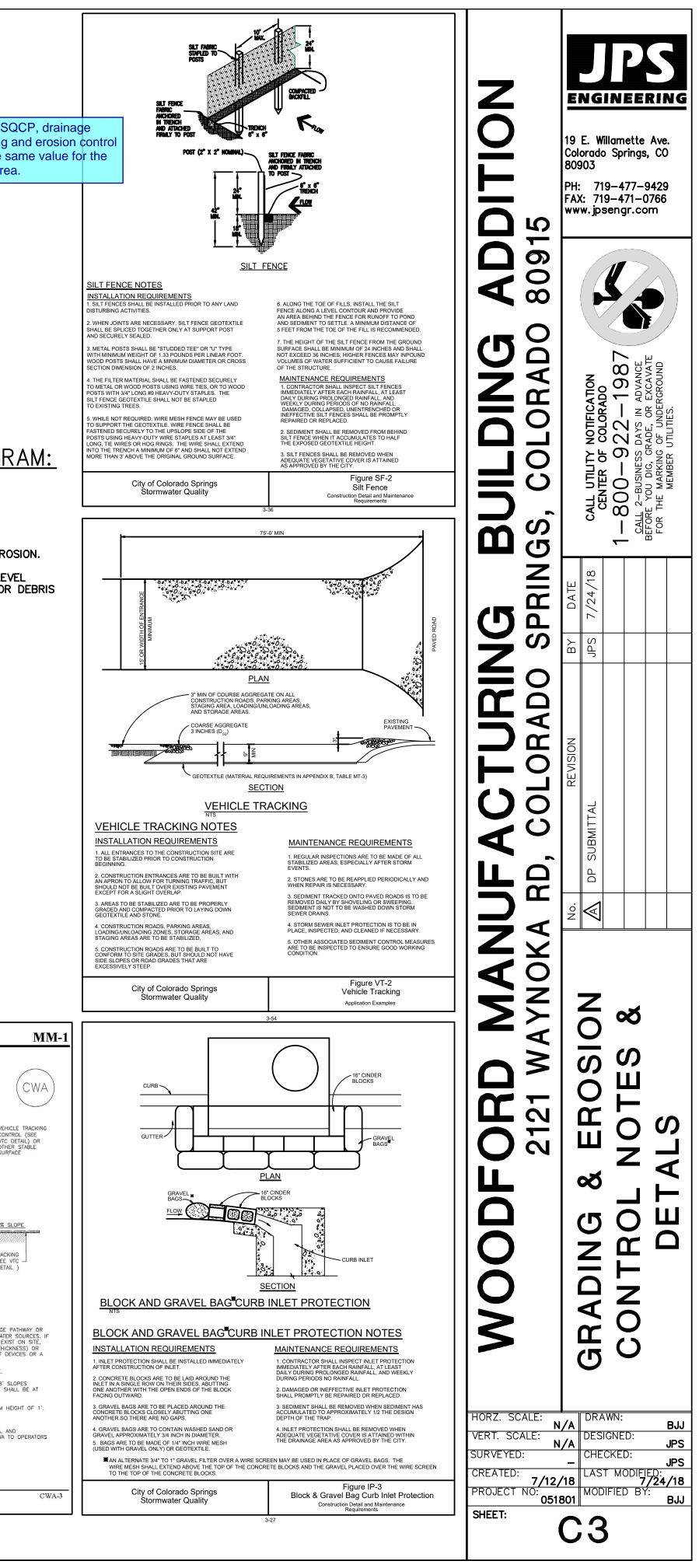
ESTIMATED TIM	E SCHEE	DULE:
INSTALL BMP'S SITE GRADING SEEDING & MULCHING STABILIZATION	AUGUS	
TOTAL DISTURBED AREA: <u>2.2 ACR</u> RECEIVING WATERS: <u>SAND CREEK</u>		Update so the ES letter and grading plan all have the s total disturbed are
EXISTING VEGE	IAIION: '	
NATIVE GRASSES (APPROXIMATE	LY 70 PERCENT C	OVERAGE)
SEEDING MIX:		,
<u>SLLDING MIX.</u>	AMO	UNT IN PLS
GRASS VARIET		PER ACRE
CRESTED WHEAT GRASS EPHRA PERENIAL RYE LINN WESTERN WHEATGRASS SARTO SMOOTH BROME GRASS LINCOL SIDEOATS GRAMA EPHRA	N N OR MANCHAR	2.0 LBS. 3.0 LBS.
	TOTAL:	16.5 LBS.
SEEDING & FERTILIZER APPLICA		SEED OR SEED PER TION 212.
MULCHING APPLICATION:	CONFORM SPEC-SEC	
DIMENT CONTROL MA	AINTENAN	<u>CE PROGF</u>
		FREQUENCY
SITE INSPECTIONS	WITHIN 21 DAYS	BI-WEEKLY S OF GRADING

PERIODIC RE-VEGE1 SEDIMENT REMOVAL FROM BMP'S MONTHLY AFTER STABILIZATION ACHIEVED REMOVAL OF BMP'S <sup>1</sup> AND AFTER ANY PRECIPITATION OR SNOW MELT EVENT THAT CAUSES SURFACE EROSION.

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<sup>2</sup>ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED WHEN THE SEDIMENT LEVEL REACHES ONE HALF THE HEIGHT OF THE BMP OR AT ANY TIME THAT SEDIMENT OR DEBRIS ADVERSELY IMPACTS THE FUNCTION OF THE BMP.

Concrete Washout Area (CWA)
12" TP. COMPACTED BERM AROUND
124 THE PERIMETER
UNDISTURBED OR
CWA-1. CONCRETE WASHOUT AREA
CWA INSTALLATION NOTES
1. SEE PLAN VIEW FOR: -CWA INSTALLATION LOCATION.
2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WAT SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOLS EX THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THI SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT D LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT S LEAST 3' DEEP.
5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM
6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
<ol> <li>SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, J ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA OF CONCRETE TRUCKS AND PUMP RIGS.</li> </ol>
8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.
November 2010         Urban Drainage and Flood Control District           Urban Storm Drainage Criteria Manual Volume 3



## Markup Summary

dsdlaforce (8) Subject: Text Box THE PRIST ELECTRONIC DATA FILE SET SHALL BE IN AUTOCAD 2008 OF STERNAL REPERENCES MUST BE BOLHD INTO THE DRAWING SET. THE TORAT JOY FORMAT. Remove the site utility plan from the Page Label: 1 WERKS OF COMPLETON OF THE WATER AND/OR SANTARY SET (35 TO THE SYSTEM WILL BE ALLOWED UNTIL THE "AS-CONSTR standalone GEC and upload as a Author: dsdlaforce ALL BE PREPARED BY OR UNDER THE DIRECT SUPERVISION OF A " COLORADO. ALL PLANS AND SPECIFICATIONS DIALL BEAR THE SEAL U1. separate document. Date: 8/22/2018 4:00:30 PM ove the site utility plan from th Color: Subject: Text Box JENNIFER IRVINE, P.E. COUNTY ENGINEER/ECM ADMINISTRATOR Add a sheet index for the standalone Page Label: 2 GEC plan. Author: dsdlaforce x for the standalone GEC of Date: 8/22/2018 4:02:22 PM Color: EARTHWORK VOLUME TO FINISHED GRADE, MENT FOR PAVEMENT DEPTHS, ETC. CON DETERMINATION OF EARTHWORK QUANTITIES AND NOTIFY ENGINEER OF ANY DISCREPAI Subject: Callout PPR1837 Page Label: 2 Author: dsdlaforce PCD PROJECT NO. XX Date: 8/22/2018 4:02:34 PM Color: Subject: Callout Looking at the contours, runoff from the Page Label: 2 swale is likely to continue along the Author: dsdlaforce landscaping strip. Date: 8/22/2018 4:32:51 PM Provide a swale along the southern Color: property line to ensure developed flows are conveyed into the rain garden. 1 -----Subject: Callout Identify the riprap LxWxD and size Page Label: 2 Author: dsdlaforce Date: 8/22/2018 4:34:00 PM Color: Subject: Callout Update so the ESQCP, drainage letter Page Label: 4 TIME SCHEDULE: and grading and erosion control plan all SEPTEMBER, SEPTEMBER, Author: dsdlaforce K have the same value for the total 2.2 ACRES Date: 8/22/2018 4:45:09 PM disturbed area. Color: GETATION: X: AMOUNT IN PLS 4.0 LBS. 2.0 LBS. Subject: Callout Identify as TSB during construction and Page Label: 2

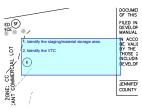
Author: dsdlaforce

Color:

Date: 8/22/2018 5:00:22 PM

include in the FAE

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Subject: Text Box Page Label: 2 Author: dsdlaforce Date: 8/22/2018 5:03:02 PM Color:

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1. Identify the staging/material storage area.

2. Identify the VTC