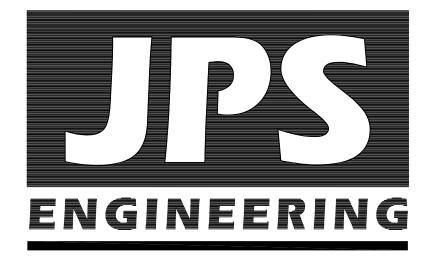


Cathedral Rock Commons Commercia Grading & Erosion GEC PLAN SHEET INDEX TITLE SHEET **Control Plans** GENERAL NOTES & LEGEND FROSION CONTROL PLAN C3.1 ND PLAN & DETAILS C4.1 & DETAILS C4.2 EROSION CONTROL NOTES & DETAILS El Paso County, Colorado C4.3

	PREPA	ARED FOR:	
thedral	Rock	Investments,	LLC

6035 Erin Park Drive Colorado Springs, CO 80918

PREPARED BY:



PREPARED BY: **19 East Willamette Avenue Colorado Springs, Colorado 80903** December, 2022

WATER/WASTEWATER:	DONALA WATER & SANITATION DISTRICT 15850 HOLBEIN DR. COLORADO SPRINGS, CO 80921 (719)488-3603	COUNTY F COUNTY E ACCURAC WHICH SH APPROVA
GAS DEPARTMENT:	BLACK HILLS ENERGY MR. SEBASTIAN SCHWENDER (719)399—3176	FILED IN A
ELECTRIC DEPARTMENT:	MOUNTAIN VIEW ELECTRIC ASSOCIATION 11140 E. WOODMEN ROAD COLORADO SPRINGS, CO 80908 MR. DAVE WALDNER (719)495-2283	AND ENG IN ACCOR WILL BE V SIGNED B
TELEPHONE COMPANY:	CENTURY LINK COMMUNICATIONS (LOCATORS) (800)922-1987	STARTED APPROVA COMMUNI
	A.T. & T. (LOCATORS) (719)635-3674 Unresolved comment: Revise to Joshua Palmer	JENNIFER COUNTY E
	GAS DEPARTMENT: ELECTRIC DEPARTMENT:	15850 HOLBEIN DR. COLORADO SPRINGS, CO 80921 (719)488–3603GAS DEPARTMENT:BLACK HILLS ENERGY MR. SEBASTIAN SCHWENDER (719)399–3176ELECTRIC DEPARTMENT:MOUNTAIN VIEW ELECTRIC ASSOCIATION 11140 E. WOODMEN ROAD COLORADO SPRINGS, CO 80908 MR. DAVE WALDNER (719)495–2283TELEPHONE COMPANY:CENTURY LINK COMMUNICATIONS (LOCATORS) (800)922–1987 A.T. & T. (LOCATORS) (719)635–3674

- RADING AND EROSION CONTROL PLAN

DESIGN ENGINEER'S STATEMENT

DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCC THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR LIABILITY CAUSED BY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS

JOHN P. SCHWAB, P.E. #29891

PLAN.

DATE

DATE

DATE

OWNER/DEVELOPER'S STATEMENT:

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

CATHEDRAL ROCK INVESTMENTS, LLC
6035 ERIN PARK DRIVE
COLORADO SPRINGS, 80918

EL PASO COUNTY:

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

ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY EVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, GINEERING CRITERIA MANUAL AS AMENDED.

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

ER IRVINE, P.E., ENGINEER / ECM ADMINISTRATOR **PCD FILE NO. SP221 / SF2210**

VERT. SCALE: N SURVEYED:	CATHEDRAL F	202	OCK COMMONS CO	MONS	COMMERCIAL
N/A N/A LDC 0/21 102		No.	REVISION	BY DATE	19 Col 809 PH: FA>
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D: ODIF					rings
IED: 2/8 Y:					9429 9766
BJJ JPS JPS /22 JPS					

COUNTY GENERAL NOTES:

. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA 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 THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).

3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING: 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 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 DRAINAGE 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 RECTIFY.

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

6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS. PRIOR TO STARTING CONSTRUCTION.

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF 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 PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.

13. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IN A MANNER THAT WILL PROTECT ADJACENT PROPERTIES AND PUBLIC FACILITIES FROM THE ADVERSE EFFECTS OF 9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP WITH CLASS B BEDDING UNLESS OTHERWISE NOTED AND APPROVED BY PCD. EROSION AND SEDIMENTATION AS A RESULT OF CONSTRUCTION AND EARTHWORK ACTIVITIES WITHIN THE PROJECT SITE. 10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF 14. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS DETERMINED BY SITE CONDITIONS. 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 THAN 18 INCHES ABOVE FLOWLINE ARE NOT 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 SPECIAL TRANSPORT PERMITS. 15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

GENERAL DRAINAGE NOTES:

1. INDIVIDUAL BUILDERS SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND ACCOUNT FOR POTENTIAL CROSS-LOT DRAINAGE IMPACTS WITHIN EACH LOT.

2. BUILDERS AND PROPERTY OWNERS SHALL IMPLEMENT & MAINTAIN EROSION CONTROL BEST MANAGEMENT PRACTICES FOR PROTECTION OF DOWNSTREAM PROPERTIES AND FACILITIES INCLUDING PROTECTION OF EXISTING GRASS BUFFER STRIPS ALONG THE DOWNSTREAM PROPERTY BOUNDARIES.

3. GRADING AND DRAINAGE WITHIN LOTS IS THE RESPONSIBILITY OF THE INDIVIDUAL BUILDERS AND PROPERTY OWNERS.

COUNTY SIGNING AND STRIPING NOTES:

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). 2. 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:

1. 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. 2. EXISTING CONTOUR DATA PROVIDED BY OWNER GENERALLY CONSISTS OF AERIAL MAPPING FROM UNITED PLANNING & ENGINEERING. JPS ENGINEERING TAKES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING TOPOGRAPHIC MAPPING.

3. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THESE APPROVED PLANS AND ONE (1) COPY OF THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES:

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. PROVIDE WATER-TIGHT JOINTS ON STORM SEWER PIPE. 5. STATIONING IS AT CENTERLINE UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE AT FLOWLINE UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE FROM FACE OF CURB UNLESS OTHERWISE NOTED.

6. PROPOSED CONTOURS SHOWN ARE TO FINISHED GRADE.

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

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

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 AFTER FINE GRADING IS COMPLETE. 11. EROSION CONTROL SHALL CONSIST OF SILT FENCE AND OTHER BMP'S AS SHOWN ON THE DRAWINGS, AND TOPSOIL WITH GRASS SEED, WHICH WILL BE WATERED UNTIL VEGETATION HAS BEEN REESTABLISHED.

12. THE EROSION CONTROL MEASURES OUTLINED ON THIS PLAN ARE THE RESPONSIBILITY OF THE DEVELOPER TO MONITOR AND REPLACE, REGRADE, AND REBUILD AS NECESSARY UNTIL VEGETATION IS REESTABLISHED.

15. THE CONTRACTOR WILL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION. ANY DAMAGE TO THE UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AND ANY SERVICE DISRUPTION WILL BE SETTLED BY THE CONTRACTOR 16. PEDESTRIAN RAMPS SHALL BE INSTALLED AT ALL INTERSECTIONS AND CONFORM TO COUNTY ENGINEERING STANDARDS AND SPECIFICATIONS.

17. ALL FINISHED GRADES SHALL HAVE A MINIMUM 0.5% SLOPE TO PROVIDE POSITIVE DRAINAGE.

18. WHERE PROPOSED SLOPES CONFLICT WITH PROPOSED SPOT ELEVATIONS, SPOT ELEVATIONS SHALL GOVERN.

19. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO BEGINNING WORK. 20. ALL RESIDENTIAL STREET CURB RETURN RADII ARE 20-FEET AT FLOWLINE UNLESS OTHERWISE NOTED. ARTERIAL STREET CURB RETURN RADII ARE 35' UNLESS NOTED OTHERWISE.

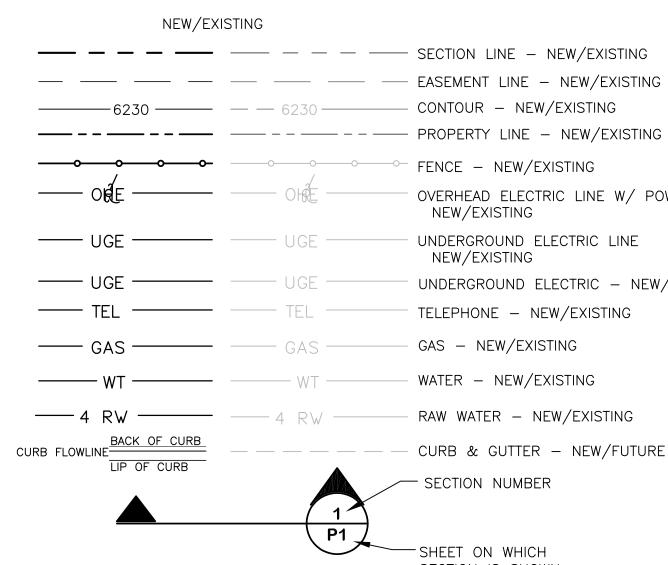
21. 25-FOOT SIGHT VISIBILITY TRIANGLES SHALL BE PROVIDED AT ALL RESIDENTIAL STREET INTERSECTIONS. 50-FOOT SIGHT TRIANGLES SHALL BE PROVIDED AT ARTERIAL STREET

INTERSECTIONS. NO OBSTRUCTIONS TALLER THAN 18" ARE PERMITTED WITHIN THESE TRIANGLES. 22. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY AND ALL UTILITIES INVOLVED IN PROJECT PRIOR TO MOBILIZING ON SITE. 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.

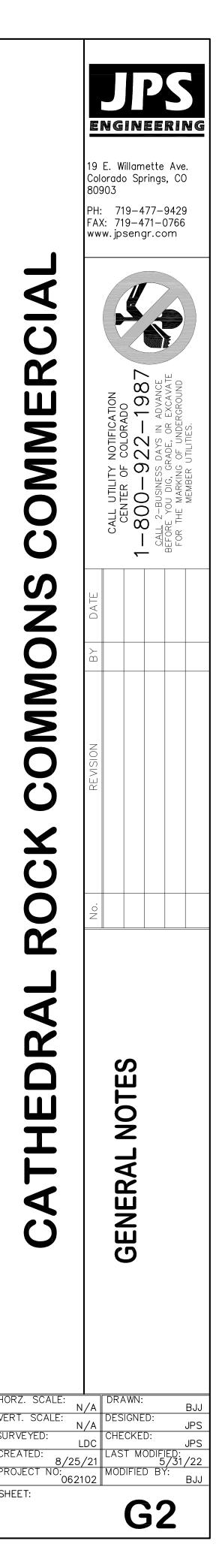
25. ALL BACKFILL, SUB-BASE, AND/OR BASE COURSE MATERIAL SHALL BE COMPACTED PER EL PASO COUNTY AND CDOT STANDARDS AND SPECIFICATIONS AND PROJECT GEOTECHNICAL REPORT. CONTRACTOR SHALL STABILIZE ALL SUBGRADE AREAS PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. 26. A WORK-IN-THE-ROW PERMIT WILL BE REQUIRED FOR ANY WORK ON SPANISH BIT DRIVE.

LEGEND:

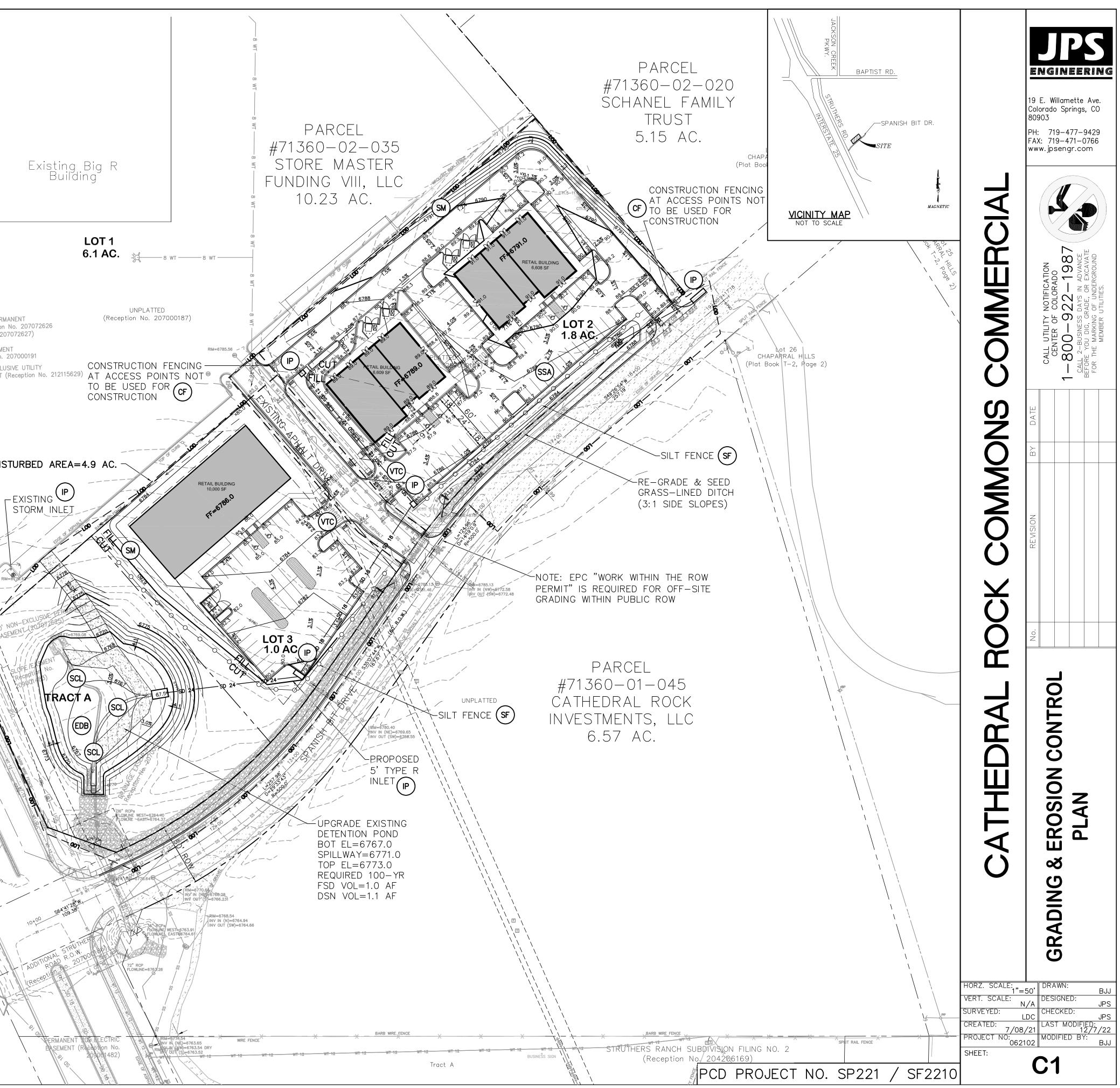


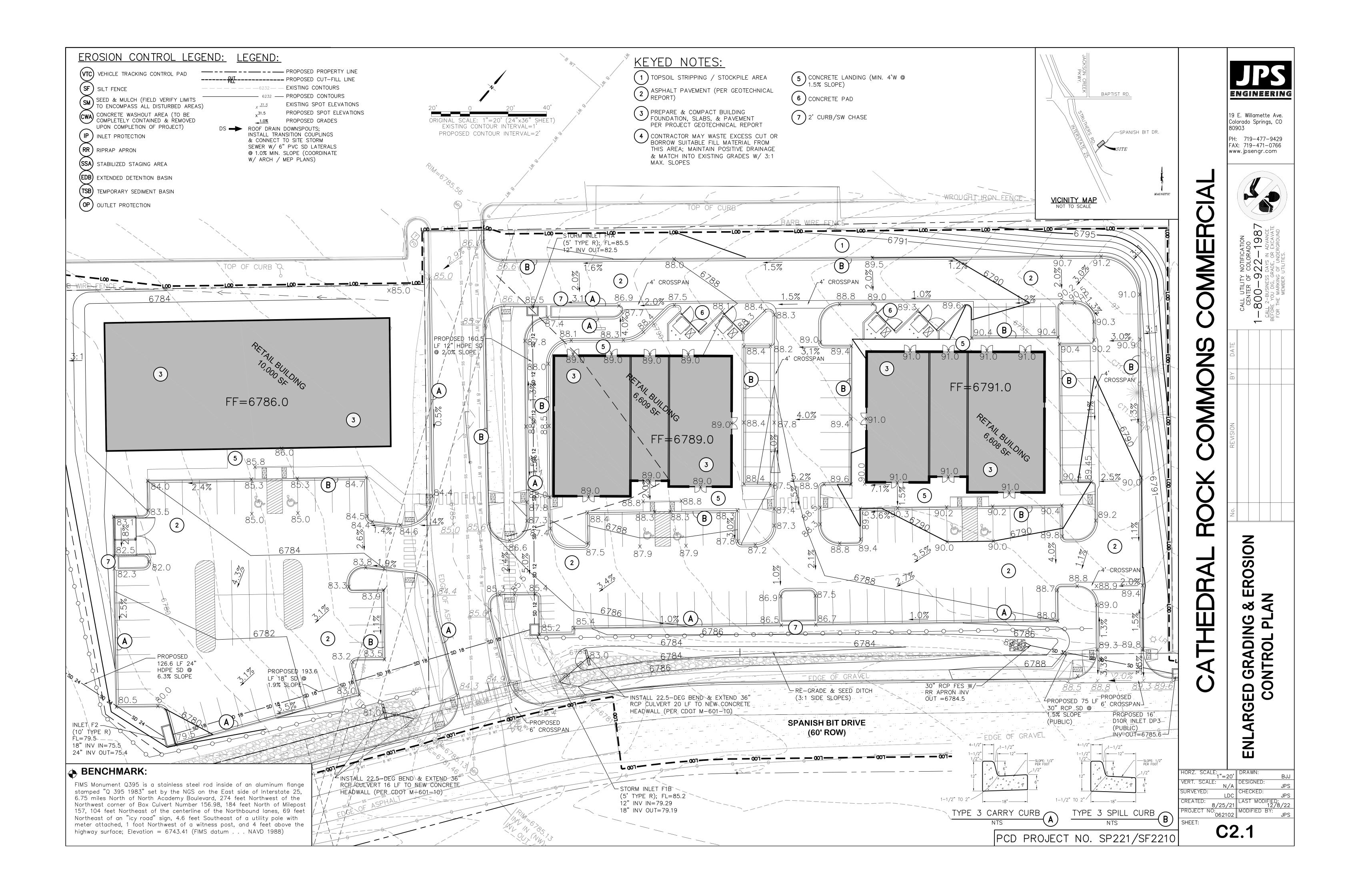
CONTOUR - NEW/EXISTING FENCE - NEW/EXISTING OVERHEAD ELECTRIC LINE W/ POWER POLE NEW/EXISTING UNDERGROUND ELECTRIC LINE NEW/EXISTING UNDERGROUND ELECTRIC - NEW/EXISTING TELEPHONE - NEW/EXISTING GAS - NEW/EXISTING WATER - NEW/EXISTING RAW WATER - NEW/EXISTING — CURB & GUTTER — NEW/FUTURE SECTION NUMBER

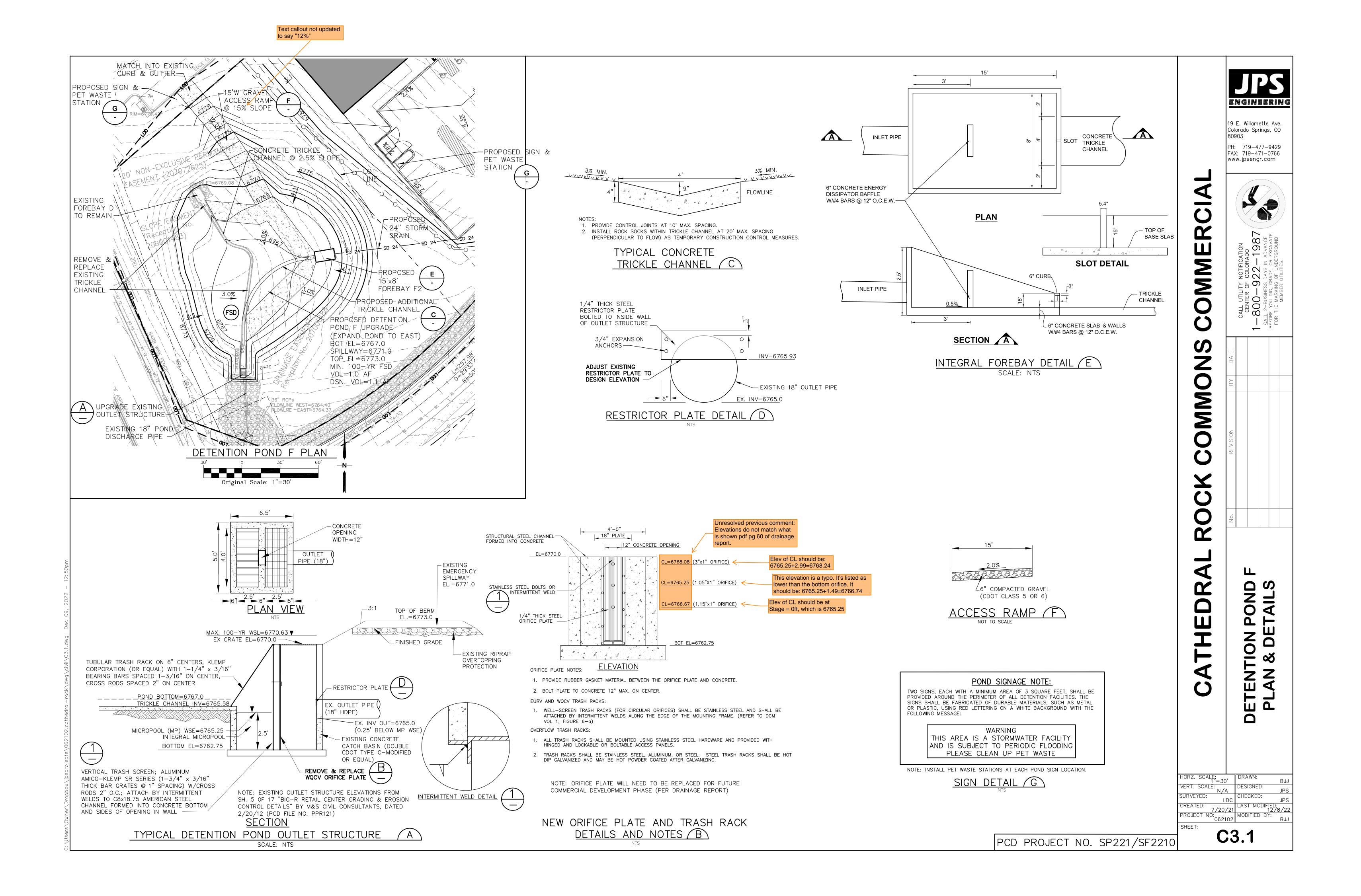
SHEET ON WHICH SECTION IS SHOWN



EROSION CONTROL LEGEND: LEGEND: (VTC) VEHICLE TRACKING CONTROL PAD LIMITS OF DISTURB	
(SF) SILT FENCE ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
SM SEED & MULCH (FIELD VERIFY LIMITS 6232 EXISTING CONTOUR TO ENCOMPASS ALL DISTURBED AREAS) 6232 PROPOSED CONTOU	
CONCRETE WASHOUT AREA (TO BE $x^{31.5}$ EXISTING SPOT ELE	EVATIONS
COMPLETELY CONTAINED & REMOVED UPON COMPLETION OF PROJECT) 1.0% PROPOSED SPOT E	
(IP) INLET PROTECTION DS → ROOF DRAIN DOWNSPOUTS; INSTALL TRANSITION COUPLINGS	
RR RIPRAP APRON & CONNECT TO SITE STORM SEWER W/ 6" PVC SD LATERALS	
SSA STABILIZED STAGING AREA W/ ARCH / MEP PLANS)	
EDB EXTENDED DETENTION BASIN	
TSB TEMPORARY SEDIMENT BASIN	(G.O.W. WDTH VARIES)
OP OUTLET PROTECTION	HTdM
CF CONSTRUCTION FENCING	Z2 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
SCL SEDIMENT CONTROL LOGS	
SWMP NOTES: 1. EXISTING VEGETATION CONSISTS OF NATIVE GRASSES 2. SWMP TO BE LOCATED WITHIN EXISTING OFFICE BUILDING	H H
CONTROL MEASURE/BMP PHASING: INITIAL BMP'S:	0.00187) 0.00187) 0.00187
 VTC SILT FENCE ALONG DOWNSTREAM EDGE OF GRADING LIMITS SEDIMENT BASIN INTERIM BMP'S:	DDITIONAL STRUTHERS F (Reception No. 2070
 INLET PROTECTION TEMPORARY SEED & MULCH FINAL BMP'S: 	V 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
• SEEDING & MULCHING	WIT 12
KEYED NOTES:	ption ,
$\frac{1}{1}$ TOPSOIL STRIPPING / STOCKPILE AREA	The strength
8" CONCRETE PAVEMENT (PER	
2 GEOTECHNICAL REPORT)	
3 PREPARE & COMPACT BUILDING FOUNDATION, SLABS, & PAVEMENT PER PROJECT GEOTECHNICAL REPORT	
 CONTRACTOR MAY WASTE EXCESS CUT OR BORROW SUITABLE FILL MATERIAL FROM THIS AREA; MAINTAIN POSITIVE DRAINAGE & MATCH INTO EXISTING GRADES W/ 3:1 MAX. SLOPES 	
5 ASPHALT MILLINGS	
CONCRETE LANDING (MIN. 4'W @	`\ \ 2
1.5% SLOPE)	
7 CONCRETE PAD	L CL
8 COORDINATE SW CHASE LOCATIONS W/ARCH & PLUMBING PLANS	18" PCP
ESTIMATED EARTHWORK QUANTITY:	18" RCP FLOWLINE=6764.30
UNCLASSIFIED EXCAVATION (TOTAL CUT) = 6,501 CY * EMBANKMENT FILL = 3,155 CY NET (FILL) = 3,346 CY	
* (ASSUMES 15% COMPACTION FACTOR) 50'	<u>0 50' 100'</u>
UNLY, REPRESENTING THE CALCULATED BULK EXISTING	ALE: 1"=50' (24"x36" SHEET) CONTOUR INTERVAL=1' CONTOUR INTERVAL=2'
EARTHWORK QUANTITIES AS BASIS FOR BID PRICING AND NOTIFY ENGINEER OF ANY DISCREPANCIES.	18" RCP FLOWLINE=6763.04 ∇
BENCHMARK:	
FIMS Monument Q395 is a stainless steel rod inside of an aluminum flange	72" RCP FLOWLINE=6762.5
stamped "Q 395 1983" set by the NGS on the East side of Interstate 25, 6.75 miles North of North Academy Boulevard, 274 feet Northwest of the Northwest corner of Box Culvert Number 156 98, 184 feet North of Milepost	
Northwest corner of Box Culvert Number 156.98, 184 feet North of Milepost 157, 104 feet Northeast of the centerline of the Northbound lanes, 69 feet Northeast of an "icy road" sign, 4.6 feet Southeast of a utility pole with	
NOTHERSE OF ALL LEVITORAL SIGH. 4.0 LEEL SOUTHEAST OF A UTILITY DOLE WITH I	







NOTE:

EXISTING VEGETATION CONSISTS OF NATIVE MEADOW GRASSES

GENERAL CIVIL NOTES

1. All construction shall meet the following standards & specifications: * 2009 International Building Code.

* Pikes Peak Regional Building Code, latest edition.

* El Paso County Engineering Criteria Manual (ECM), latest edition. * Project Geotechnical Report.

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.

3. The contractor shall have one (1) signed copy of these approved plans and one (1) copy of the appropriate design and construction standards and specifications at the job site at all times: a. El paso county engineering criteria manual.

4. Storm drain pipe shall be rcp class iii with class c bedding unless otherwise noted.

5. Stationing is at centerline unless otherwise noted. All elevations are at flowline unless otherwise noted. All dimensions are from face of curb unless otherwise noted. Lengths shown for storm sewer pipes are to center of manhole.

6. Contractor shall coordinate with gas, electric, telephone and cable t.V. Utility suppliers for installation of all utilities. Minimum cover for all dry utilities shall be 36".

7. Contractor shall remove and dispose of all existing structures, debris, waste and other unsuitable fill material found within the limits of excavation.

8. Match into existing grades at 3:1 max cut and fill slopes.

9. Revegetation of all disturbed areas shall be done with 4" topsoil and dry land grass seed after fine grading is complete ("foothills seed mix").

10. Erosion control shall consist of silt fence and control measures as shown on the drawing, and topsoil with grass seed, which will be watered until

vegetation has been re—established.

11. The erosion control measures outlined on this plan are the responsibility of the contractor to monitor and replace, regrade, and rebuild as

necessary until vegetation is re-established.

12. Contractor shall implement best management practices in a manner that will protect adjacent properties and public facilities from the adverse effects of erosion and sedimentation as a result of construction and earthwork activities within the project site.

13. Additional erosion control measures may be required as determined by site conditions.

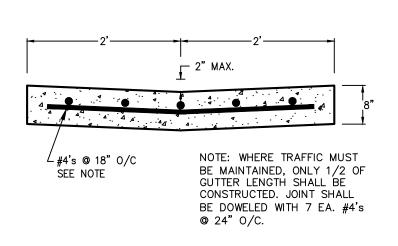
14. The contractor will take the necessary precautions to protect existing utilities from damage due to this operation. Any damage to the utilities will be repaired at the contractor's expense, and any service disruption will be settled by the contractor.

15. All backfill, sub-base, and/or base course material shall be compacted per the project geotechnical report and County specifications.

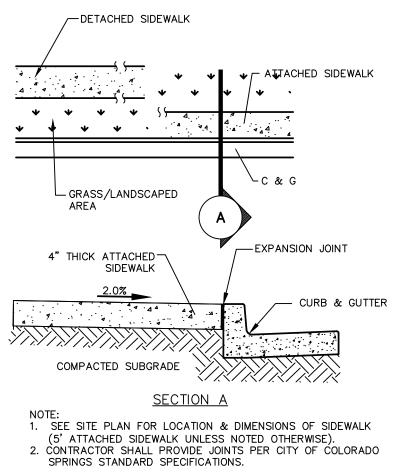
16. Concrete used in curb and gutter, sidewalk, and crosspan construction shall meet County criteria.

17. All finished grades shall have a minimum 1.0% slope to provide positive drainage.

18. Contractor shall obtain all required permits prior to beginning work.

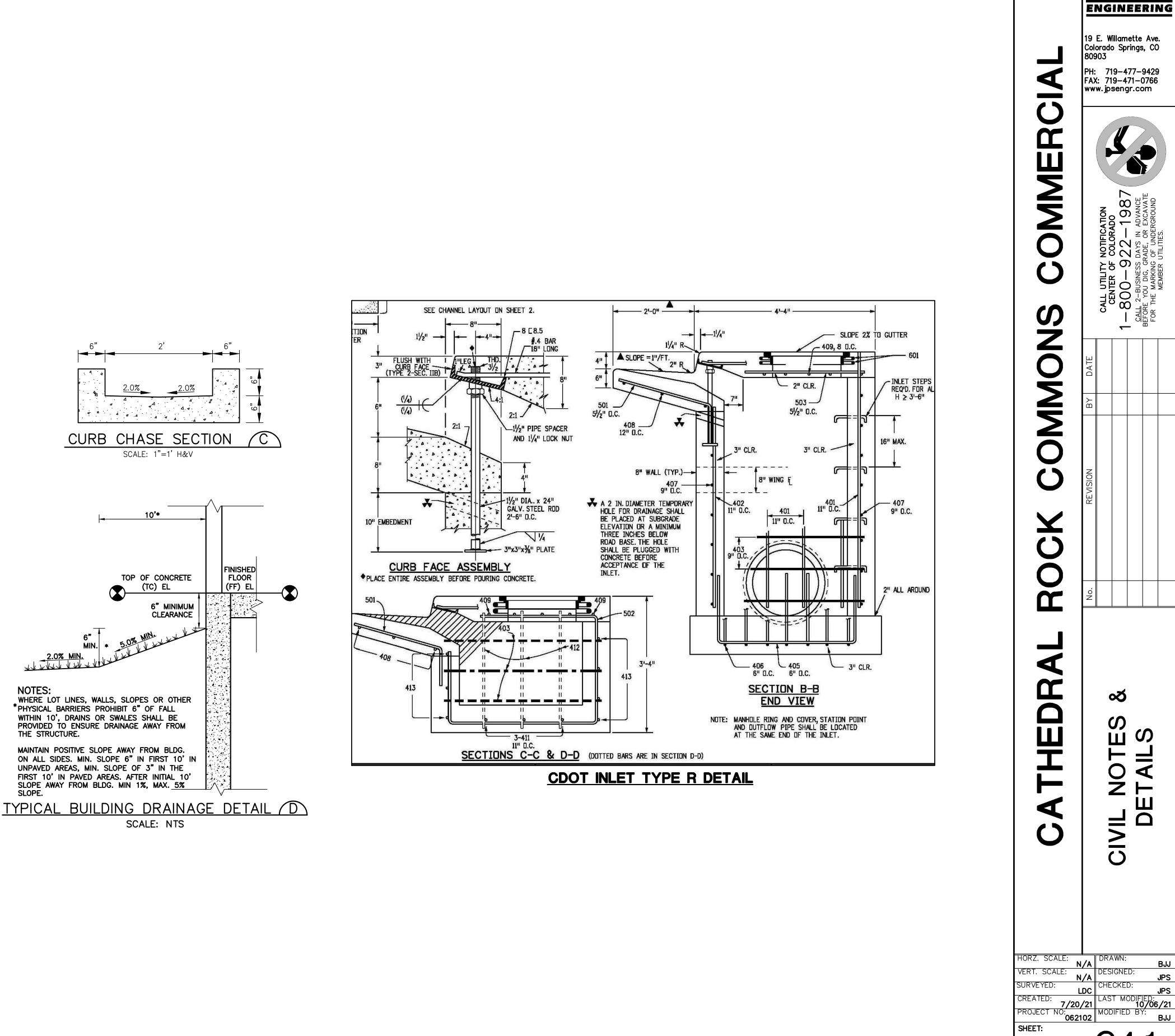


TYPICAL CONCRETE CROSSPAN SCALE: 1'' = 1' - 0''



N.T.S.

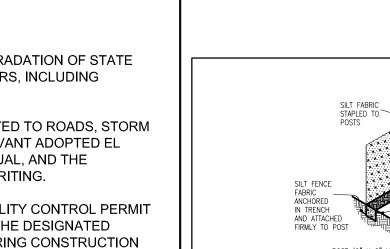
CONCRETE SIDEWALK DETAIL B



PCD PROJECT NO. XX

C4.

<u>STA</u>	NDARD	NOTE	<u>S</u> F	OR	EL	PASO	COU	NTY	GRADI	NG	AND	ERO	<u>SION</u>	CON	ITROL	<u>. Pl</u>	<u>ANS:</u>
REVISE	ED 7/02/19																
WA														,			, or degradat Ite waters, in
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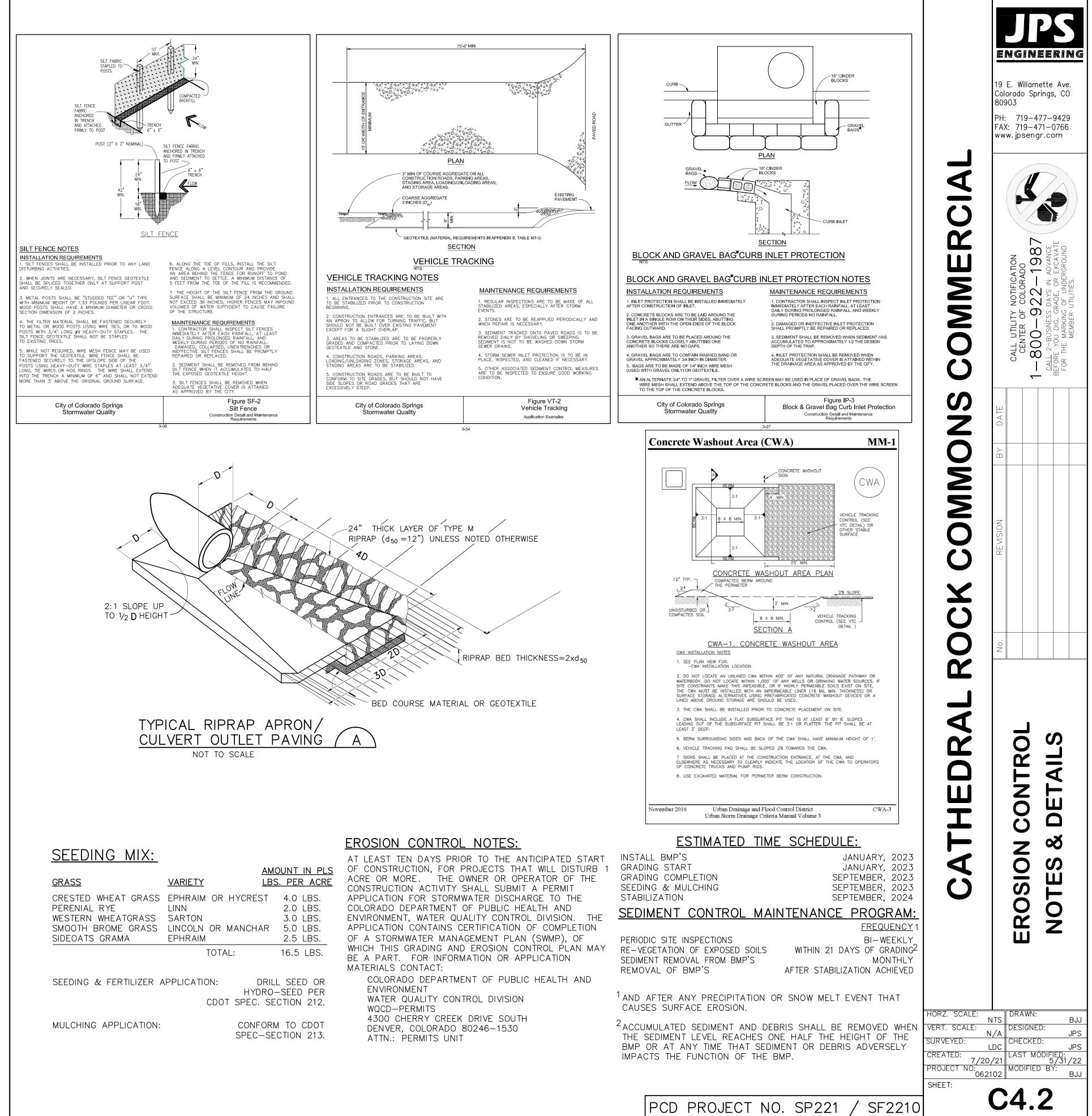
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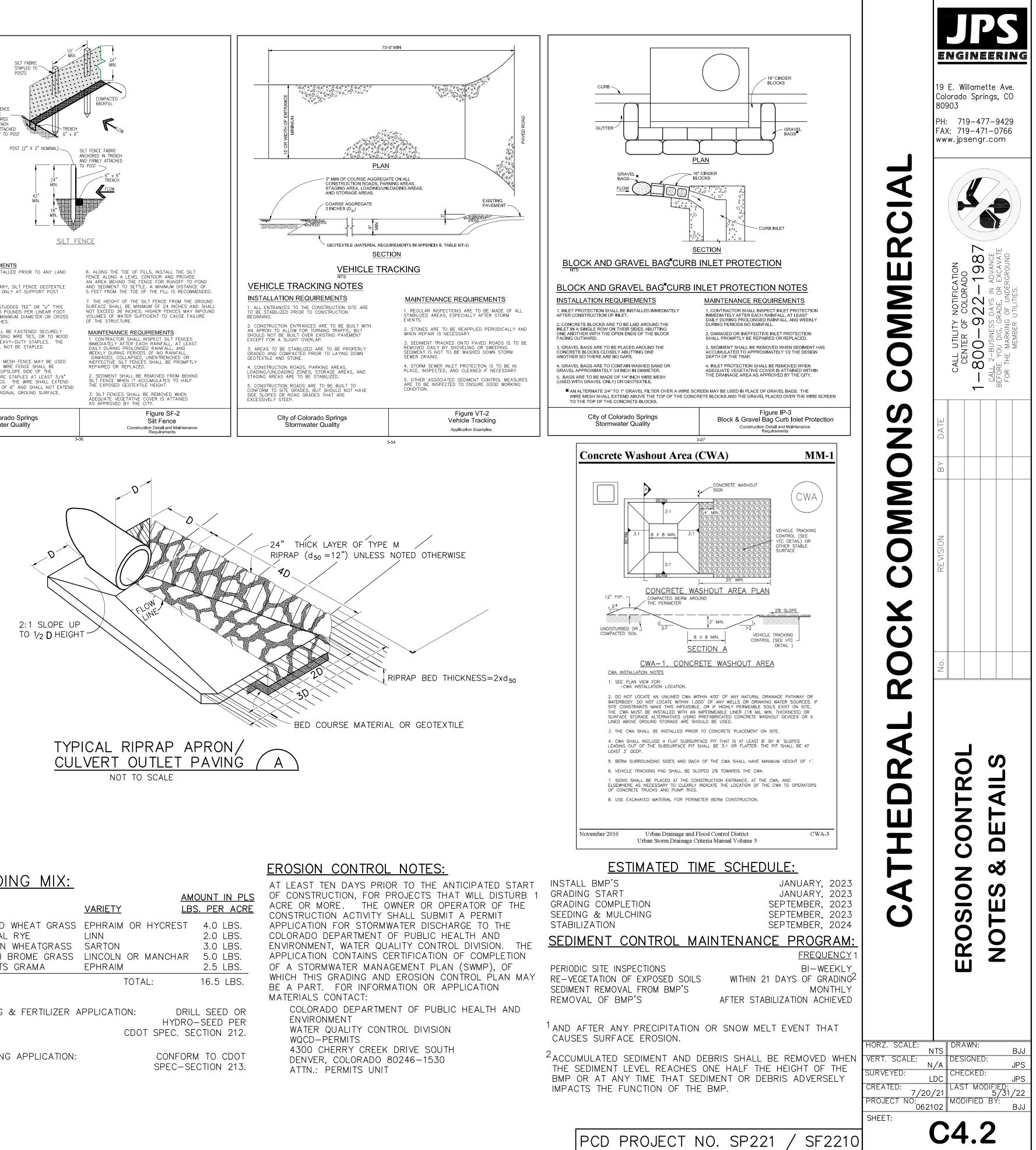
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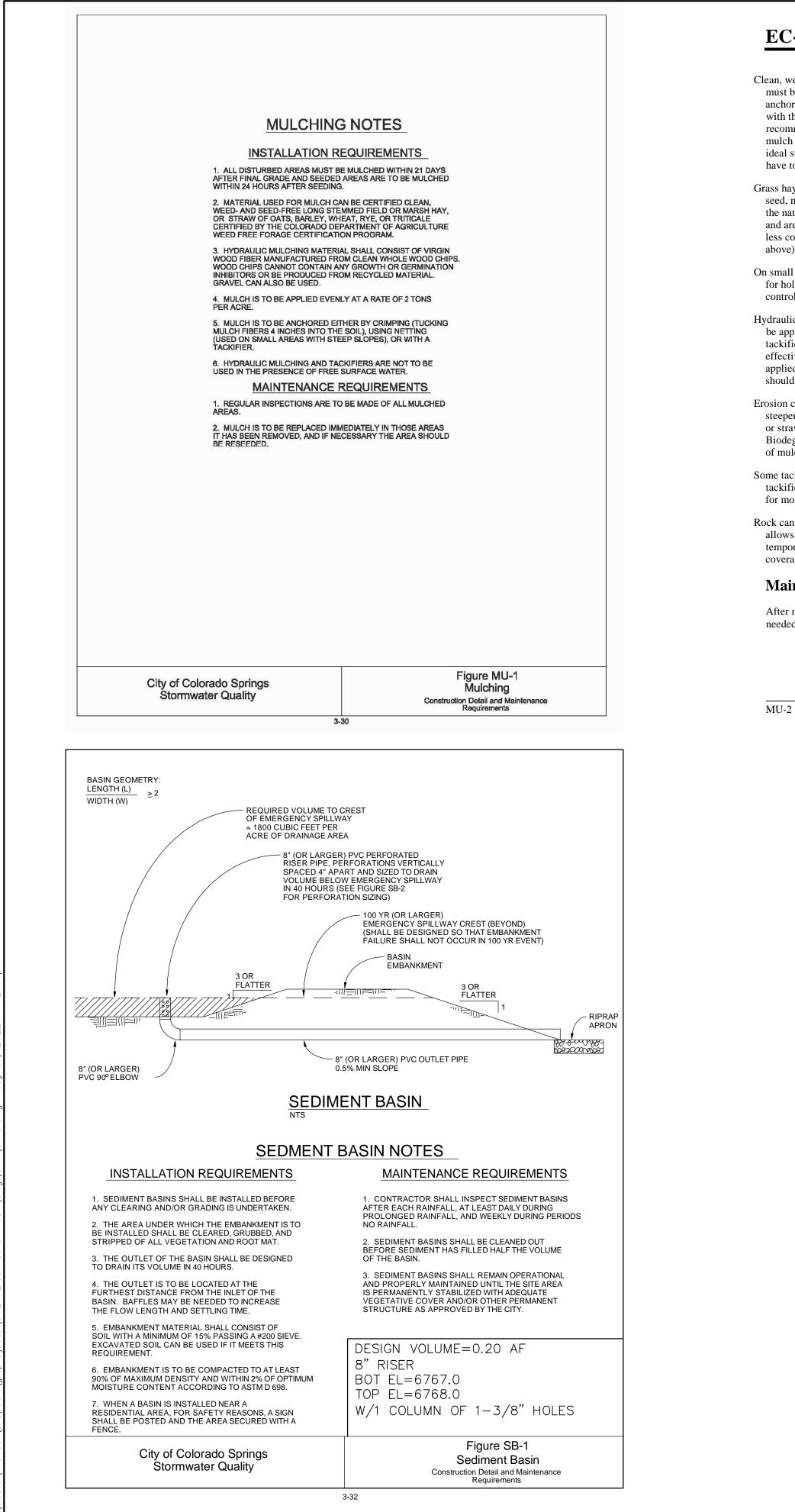
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<u>GRASS</u>	VARIETY	AMOUNT IN PLS LBS. PER ACRE
CRESTED WHEAT GRASS PERENIAL RYE WESTERN WHEATGRASS SMOOTH BROME GRASS SIDEOATS GRAMA	LINN SARTON	2.0 LBS. 3.0 LBS.
	TOTAL:	16.5 LBS.
SEEDING & FERTILIZER A	HY[DRILL SEED OR DRO-SEED PER . SECTION 212.
MULCHING APPLICATION:	CONI	FORM TO CDOT



EC-4

Mulching (MU)

Clean, weed-free and seed-free cereal grain straw should be applied evenly at a rate of 2 tons per acre and must be tacked or fastened by a method suitable for the condition of the site. Straw mulch must be anchored (and not merely placed) on the surface. This can be accomplished mechanically by crimping or with the aid of tackifiers or nets. Anchoring with a crimping implement is preferred, and is the recommended method for areas flatter than 3:1. Mechanical crimpers must be capable of tucking the long mulch fibers into the soil to a depth of 3 inches without cutting them. An agricultural disk, while not an ideal substitute, may work if the disk blades are dull or blunted and set vertically; however, the frame may have to be weighted to afford proper soil penetration.

Grass hay may be used in place of straw; however, because hay is comprised of the entire plant including seed, mulching with hay may seed the site with non-native grass species which might in turn out-compete the native seed. Alternatively, native species of grass hay may be purchased, but can be difficult to find and are more expensive than straw. Purchasing and utilizing a certified weed-free straw is an easier and less costly mulching method. When using grass hay, follow the same guidelines as for straw (provided above).

On small areas sheltered from the wind and heavy runoff, spraying a tackifier on the mulch is satisfactory for holding it in place. For steep slopes and special situations where greater control is needed, erosion control blankets anchored with stakes should be used instead of mulch.

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

Erosion control mats, blankets, or nets are recommended to help stabilize steep slopes (generally 3:1 and steeper) and waterways. Depending on the product, these may be used alone or in conjunction with grass or straw mulch. Normally, use of these products will be restricted to relatively small areas. Biodegradable mats made of straw and jute, straw-coconut, coconut fiber, or excelsior can be used instead of mulch. (See the ECM/TRM BMP for more information.)

Some tackifiers or binders may be used to anchor mulch. Check with the local jurisdiction for allowed tackifiers. Manufacturer's recommendations should be followed at all times. (See the Soil Binder BMP for more information on general types of tackifiers.)

Rock can also be used as mulch. It provides protection of exposed soils to wind and water erosion and allows infiltration of precipitation. An aggregate base course can be spread on disturbed areas for temporary or permanent stabilization. The rock mulch layer should be thick enough to provide full coverage of exposed soil on the area it is applied.

Maintenance and Removal

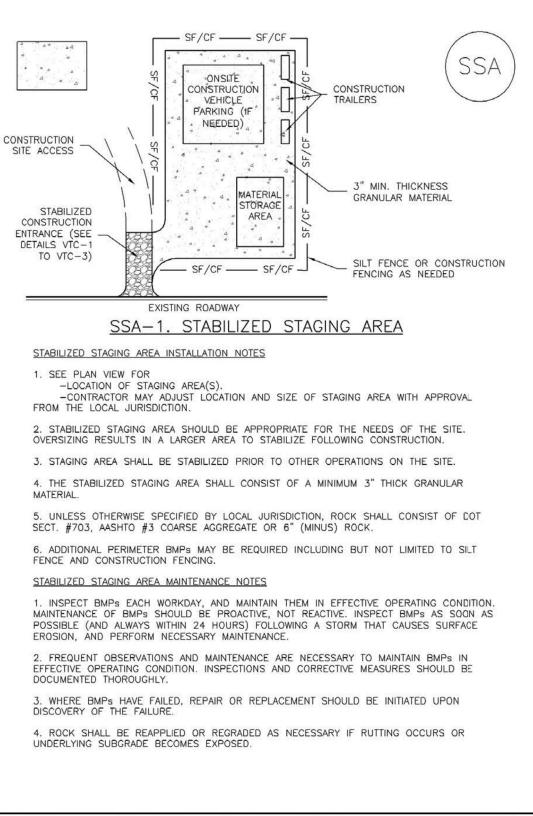
After mulching, the bare ground surface should not be more than 10 percent exposed. Reapply mulch, as needed, to cover bare areas.

Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3

June 2012

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

SSA-4

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STABILIZED STAGING AREA MAINTENANCE NOTES	SSA)			OCK COMMO	REVISION
 STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE 				R O R	°Z
GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.					
NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT O VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.				RAL	
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