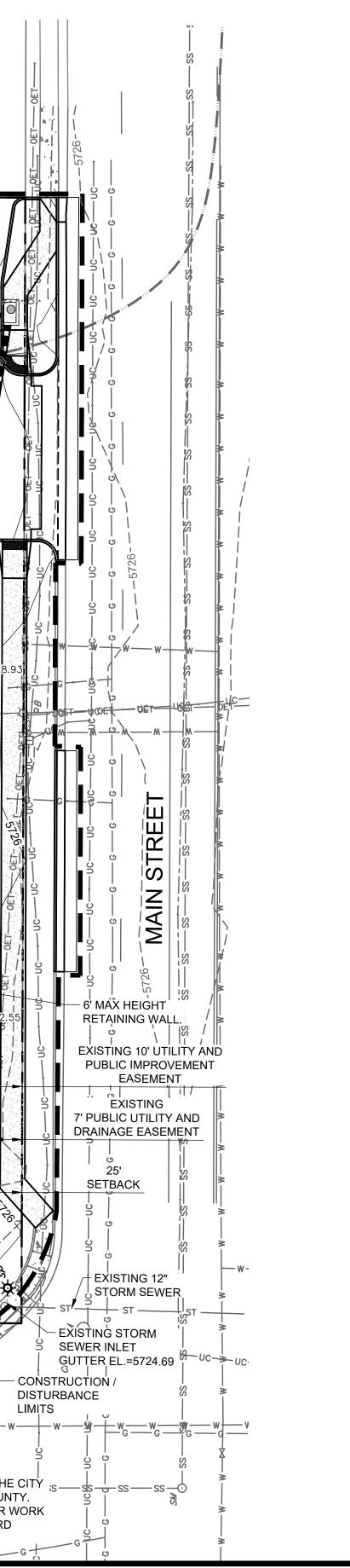


PART OF THE SOUTHEAST 1/4 OF SECTION 11, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO

MAJOR SITE DEVELOPMENT PLAN



GRADING F	PLAN LEGEND		N
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	EXISTING FLOODPLAIN		
	EXISTING CURB & GUTTER		
	EXISTING MAJOR CONTOUR		
5281	EXISTING MINOR CONTOUR		
5730	PROPOSED MAJOR CONTOUR		
5732	PROPOSED MINOR CONTOUR		
	PROPOSED INTEGRAL CURB		
	PROPOSED CURB & GUTTER		
	PROPOSED BUILDING		
	PROPOSED ADA ROUTE	added	
	PROPOSED RETAINING WALL	"proposed surface flow line"	
	PROPOSED STORM SEWER	to legend	
	EXISTING STORM SEWER MAN	HOLE/INLET	
	PROPOSED STORM SEWER MA	NHOLE/INLET	
*	EXISTING STREET LIGHTING		
Ø	EXISTING FIRE HYDRANT		
	EXISTING SIGNAGE		
	PROPOSED SITE LIGHTING		
2.7%	PROPOSED SURFACE FLOW DI	RECTION ARROW	
4727.21	PROPOSED ELEVATION AT FLO	WLINE	
4727.21	PROPOSED EXTERIOR GRADE	AT FOUNDATION	Added Notes. Rearranged
4727.21 SW	PROPOSED SIDEWALK ELEVAT	ION	notes/legend to fit on this sheet
4727.21 ME•	PROPOSED GRADE TO MATCH	EXISTING	
4727.21 FG	PROPOSED FINISHED GRADE		
4727.21 TW	PROPOSED TOP OF WALL GRA	DE	
4727.21 BW	PROPOSED FINISHED GRADE A		<u> </u>
		nresolved. Update to instruction notes.	include EPC grading a

GRADING NOTES:

- 1. NO WORK IS TO BEGIN UNTIL ALL PERMITS HAVE BEEN OBTAINED.
- 2. FINAL GRADES ARE SUBJECT TO MINOR CHANGE BY CONTRACTOR. WITHOUT ENGINEER APPROVAL.
- 3. ANY FILL MATERIAL REQUIRED TO BRING THE SITE TO GRADE SHALL BE CLEAN FILL APPROVED BY GEOTECHNICAL ENGINEER. SEE "SOIL PREPARATION NOTE" THIS SHEET.
- 4. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MINIMIZING DEPOSITION OF ONSITE SEDIMENTS ONTO SURROUNDING PUBLIC STREETS DURING CONSTRUCTION.
- 5. SEE THE SITE SURVEY FOR SURVEY INFORMATION.
- 6. GRADES SHOWN ARE FLOWLINE UNLESS OTHERWISE NOTED.
- 7. GUTTER GRADES SHALL BE A MINIMUM 0.50%.
- 8. CONTRACTOR TO ENSURE SMOOTH TRANSITION BETWEEN PRIVATE DRIVE AND TRASH ENCLOSURE.
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NOTE:

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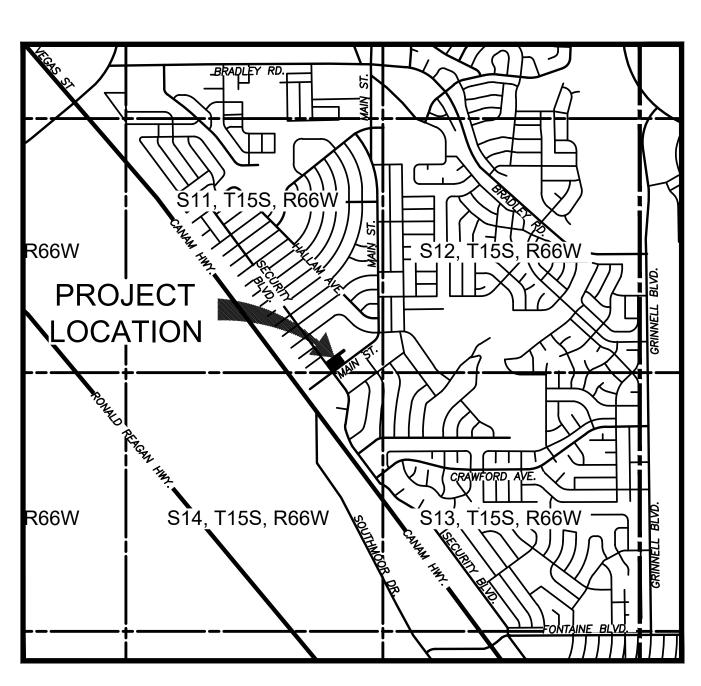
STORM SEWER NOTE:

SEE SHEET 12 FOR ALL STORM SEWER PIPING AND STRUCTURE DESIGN INFORMATION.

VEGETATION NOTE:

NO NOTABLE VEGETATION ON-SITE. SITE CONSISTS OF MOSTLY ASPHALT, CONCRETE, CURB & GUTTER AND DIRT AREAS.

W



VICINITY MAP SCALE: 1" = 2000'

BENCHMARK:

ELEVATIONS ARE BASED UPON COLORADO SPRINGS UTILITIES FIMS CONTROL MONUMENT SE09, BEING A 2-INCH DIAMETER ALUMINUM CAP STAMPED "CSU FIMS CONTROL SE09" ON THE EAST CORNER OF THE CONCRETE BASE OF A TELEPHONE RELAY BOX AT THE EAST CORNER OF 226 MAIN STREET, ABOUT 3 FEET NORHTWEST OF THE NORTHWEST CURB OF MAIN STREET, AND ABOUT 205 FEET SOUTHWEST OF THE SOUTHWEST CURB LINE OF SECURITY BOULEVARD. CITY ELEVATION: 5726.76 (NGVD 29

SOIL PREPARATION NOTE:

SOIL PREPARATION SHALL BE PER RECOMMENDATIONS FROM A GEOTECHNICAL ENGINEERING REPORT PREPARED FOR THIS SITE AS FOLLOWS

GEOTECHNICAL ENGINEER: OLSSON REPORT NO. 021-05598

THE CONTRACTOR MUST FULLY REVIEW THIS REPORT PRIOR TO CONSTRUCTION INFORMATION IN THE GEOTECHNICAL REPORT SUPERSEDES ANY CONFLICTING INFORMATION CONTAINED IN THE CONSTRUCTION PLANS AND SPECIFICATIONS.

ENGINEER'S STATEMENT:

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

ENGINEER OF RECORD SIGNATURE DATE

OWNER'S STATEMENT:

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

OWNER SIGNATURE DATE

EL PASO COUNTY:

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

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

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

JOSHUA PALMER, P.E. DATE INTERIM COUNTY ENGINEER

GRADING QUANTITIES

CUT*	77 CY
FILL*	4,035 CY
NET*	4,035 CY (FILL)

*QUANTITIES ARE RAW VALUES FROM EXISTING GRADE TO FINISHED GRADE AND DO NOT ACCOMMODATE ANY PAVEMENT SECTIONS, OVEREXCAVATION OR UTILITY TRENCHING.



Know what's **below**. **Call** before you dig.

CALL 811 SEVENTY-TWO HOURS PRIOR TO DIGGING, GRADING OR EXCAVATING FOR THE MARKING OF UNDERGROUND MEMBER UTILITIE

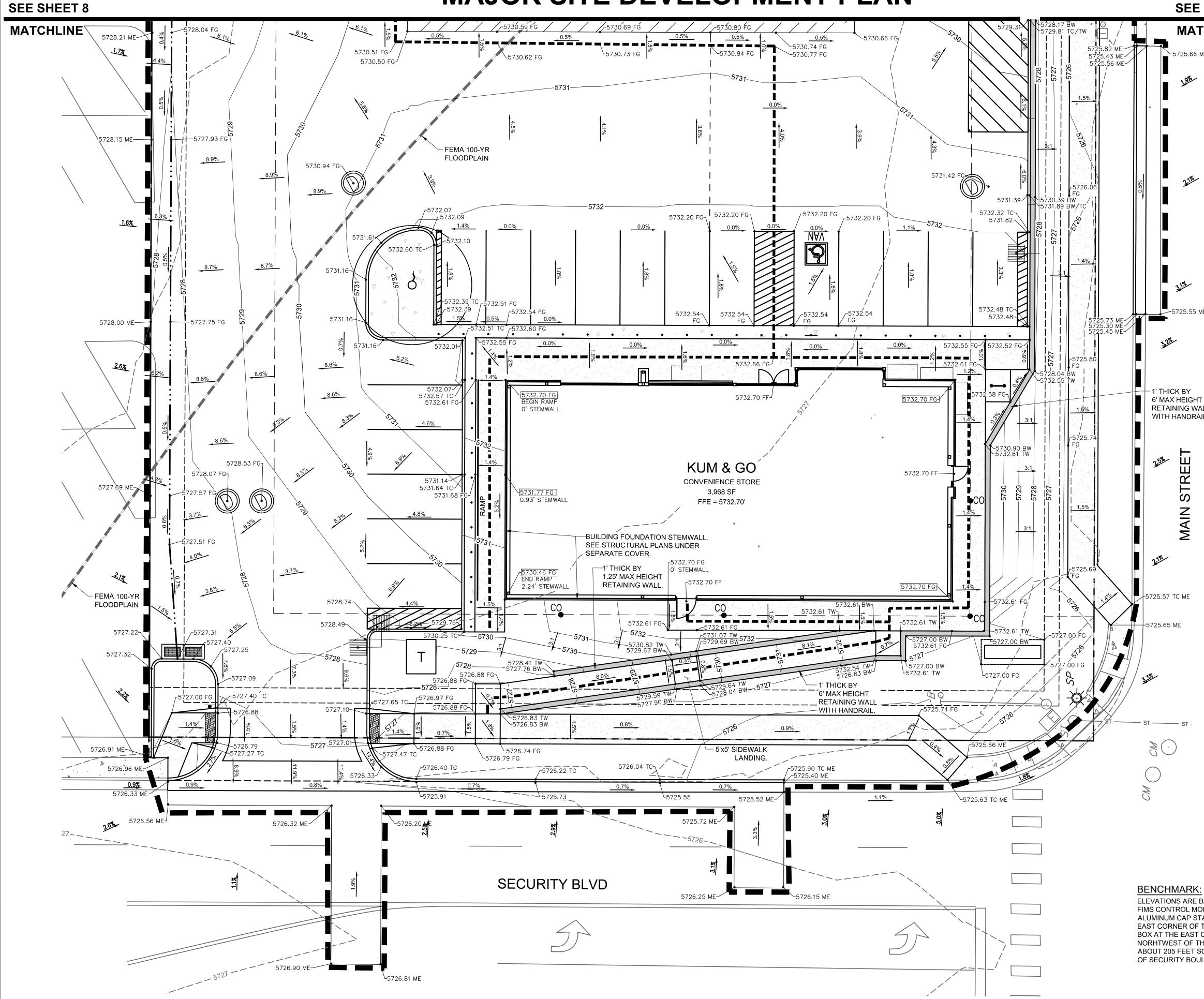
PCD FILE NO. PPR-2225



PART OF THE SOUTHEAST 1/4 OF SECTION 11, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN,

COUNTY OF EL PASO, STATE OF COLORADO

MAJOR SITE DEVELOPMENT PLAN



KUM & GO GAS & C-STORE

SHEET 8		NINE STATES	501 S Cherry St, Suite 300	Glendale, CO 80246 303-572-7997 www.ees.us.com
TCHLINE		1" = 10'		` \`
ME	added "proposed surface flow line" to legend	5' 10' 20' SCALE IN FEET		
	<u>GRADING PLAN L</u>	EGEND	``	
		 PROPOSED PROPERTY BOUNDARY PROPOSED EASEMENT CONSTRUCTION / DISTURBANCE LIMITS 		
		EXISTING FLOODPLAIN		
		EXISTING MAJOR CONTOUR		
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	5841	PROPOSED MINOR CONTOUR	Ô	
		PROPOSED BUILDING OUTLINE		
		PROPOSED INTEGRAL CURB		
		PROPOSED CURB AND GUTTER		
ME		PROPOSED RETAINING WALL		
		PROPOSED ACCESSIBLE ROUTE		
	\bigcirc \bigcirc	PROPOSED / EXISTING STORM MANHOLE		
		PROPOSED / EXISTING STORM INLET	_	
	*	EXISTING STREET LIGHTING	1459 Grand Des Moines, IA	
łΤ	V	EXISTING FIRE HYDRANT	P: 888-458-6	
/ALL AIL.	Ŧ	EXISTING SIGNAGE		
		PROPOSED SITE LIGHTING		
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	5838.00	PROPOSED EXTERIOR GRADE AT FOUNDATION	ST	
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	5837.50 BW•	PROPOSED BOTTOM OF WALL	PASO Y BLVD.	GRADING PI
	5837.50 TC—●	PROPOSED TOP OF CURB	PA BI	N A A
	2.7%	FLOW ARROW AND GRADE	32 - EL I SECURITY	TAILED G

GRADING NOTES:

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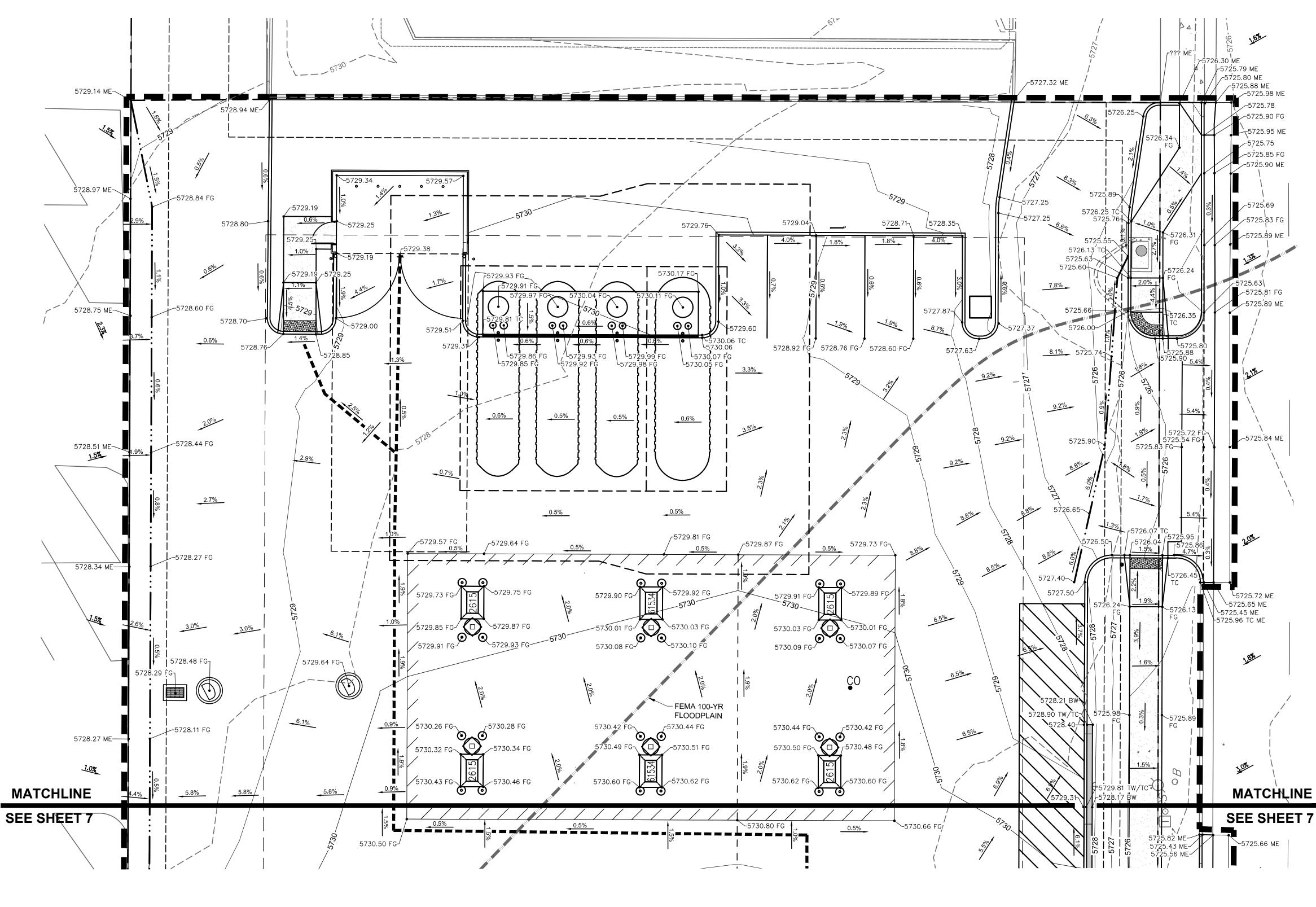
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PCD FILE NO. PPR-2225

SI SI DET \sim \sim KG PROJECT TEAM: RDM: SDM CPM DATE 10-03-2022 HEET NUMBER: C2.2 OF 35

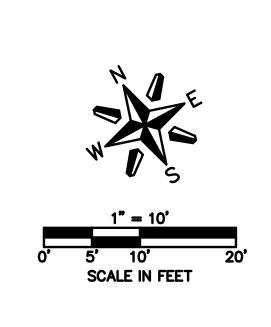
PART OF THE SOUTHEAST 1/4 OF SECTION 11, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO

MAJOR SITE DEVELOPMENT PLAN



KUM & GO GAS & C-STORE

BENCHMARK:



added "proposed surface flow line' b legend

GRADING PLAN LEGEND

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5838.00•
5838.00
5837.50 SW•
5837.50 ME
5837.50 FG•
5837.50 HP
5837.50 TW
5837.50 BW•
5837.50 TC•
2.7%

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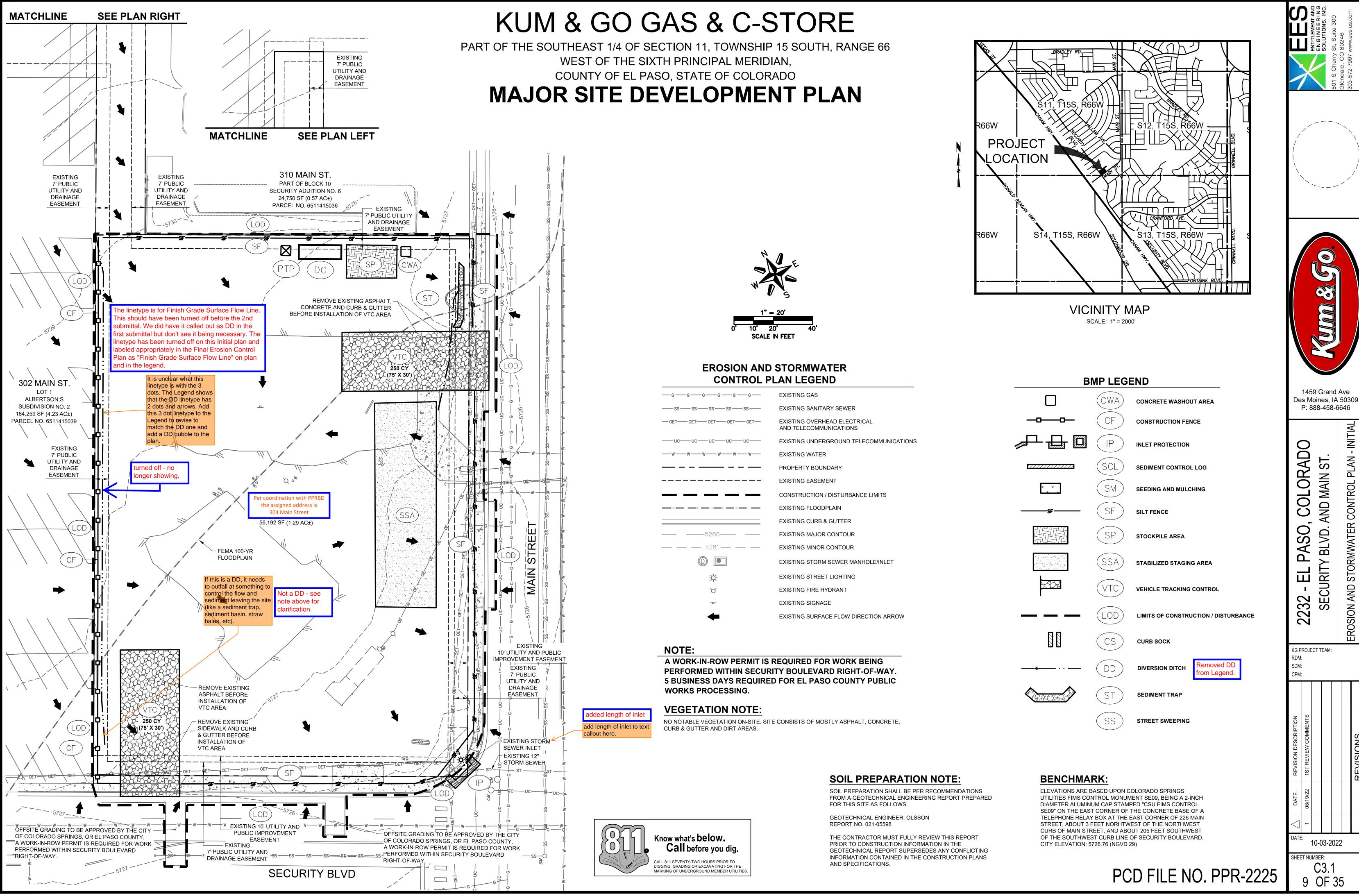
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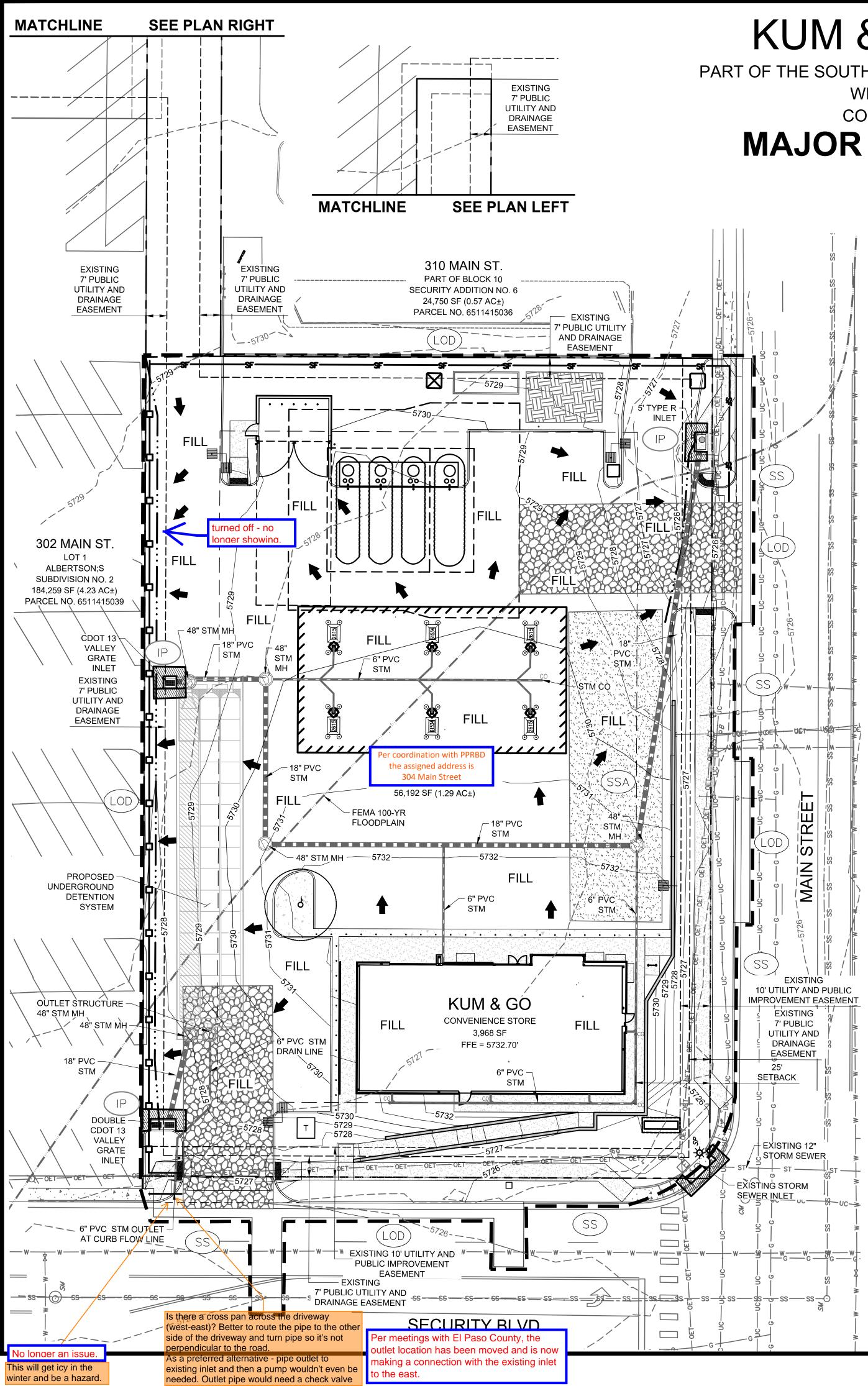


Know what's **below. Call** before you dig.

N		501 S Cherry St, Suite 300 Glendale, CO 80246	
1" = 10' 5' 10' 20' SCALE IN FEET EGEND PROPOSED PROPERTY BOUNDARY			
 PROPOSED EASEMENT CONSTRUCTION / DISTURBANCE LIMITS EXISTING FLOODPLAIN EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR PROPOSED MAJOR CONTOUR PROPOSED MINOR CONTOUR PROPOSED MINOR CONTOUR PROPOSED BUILDING OUTLINE PROPOSED INTEGRAL CURB PROPOSED CURB AND GUTTER PROPOSED RETAINING WALL PROPOSED ACCESSIBLE ROUTE PROPOSED / EXISTING STORM MANHOLE PROPOSED / EXISTING STORM INLET EXISTING STREET LIGHTING EXISTING FIRE HYDRANT 	Des Moine	rand Ave 458-6646	309
EXISTING SIGNAGEPROPOSED SITE LIGHTINGPROPOSED FLOWLINE ELEVATIONPROPOSED FLOWLINE ELEVATIONPROPOSED EXTERIOR GRADE AT FOUNDATIONPROPOSED SIDEWALK ELEVATIONPROPOSED GRADE TO MATCH EXISTINGPROPOSED FINISHED GRADEPROPOSED HIGHPOINT ELEVATIONPROPOSED TOP OF WALLPROPOSED TOP OF WALLPROPOSED TOP OF CURBFLOW ARROW AND GRADE		< ∣	עב ו אורבט פּראטוואס צבאוא - ואטא ו ח
MINOR CHANGE BY CONTRACTOR. NO GRADE CHANGES GINEER APPROVAL. O BRING THE SITE TO GRADE SHALL BE CLEAN FILL NGINEER. SEE "SOIL PREPARATION NOTE" THIS SHEET.	KG PROJECT TE RDM: SDM: CPM:	EAM:	
E RESPONSIBLE FOR MINIMIZING DEPOSITION OF ONSITE S PUBLIC STREETS DURING CONSTRUCTION. YEY INFORMATION. UNLESS OTHERWISE NOTED. MIMUM 0.50%. TH TRANSITION BETWEEN PRIVATE DRIVE AND TRASH RADES SHOWN ARE FROM FINISHED GRADE AT TOP OF TTOM OF WALL AND DO NOT INCORPORATE FOOTING FINISHED GRADE. REFER TO STRUCTURAL PLANS UNDER	DATE REVISION DESCRIPTION 08/19/22 1ST REVIEW COMMENTS		REVISIONS
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CRITERIA PLAN 04/2020





PART OF THE SOUTHEAST 1/4 OF SECTION 11, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO

MAJOR SITE DEVELOPMENT PLAN

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EXISTING GAS
EXISTING SANITARY SEWER
EXISTING OVERHEAD ELECTRICAL AND TELECOMMUNICATIONS
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PROPERTY BOUNDARY
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EXISTING MINOR CONTOUR
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PROPOSED MINOR CONTOUR
PROPOSED CURB & GUTTER
PROPOSED BUILDING
PROPOSED RETAINING WALL
PROPOSED STORM SEWER
EXISTING STORM SEWER MANHOLE/INLET
PROPOSED STORM SEWER MANHOLE/INLET
EXISTING STREET LIGHTING
EXISTING FIRE HYDRANT
EXISTING SIGNAGE
PROPOSED SURFACE FLOW DIRECTION ARROW
PROPOSED SITE LIGHTING

NOTE:

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STORM SEWER NOTE:

SEE SHEET 12 FOR ALL STORM SEWER PIPING AND STRUCTURE DESIGN INFORMATION.

VEGETATION NOTE:

NO NOTABLE VEGETATION ON-SITE. SITE CONSISTS OF MOSTLY ASPHALT, CONCRETE CURB & GUTTER AND DIRT AREAS.



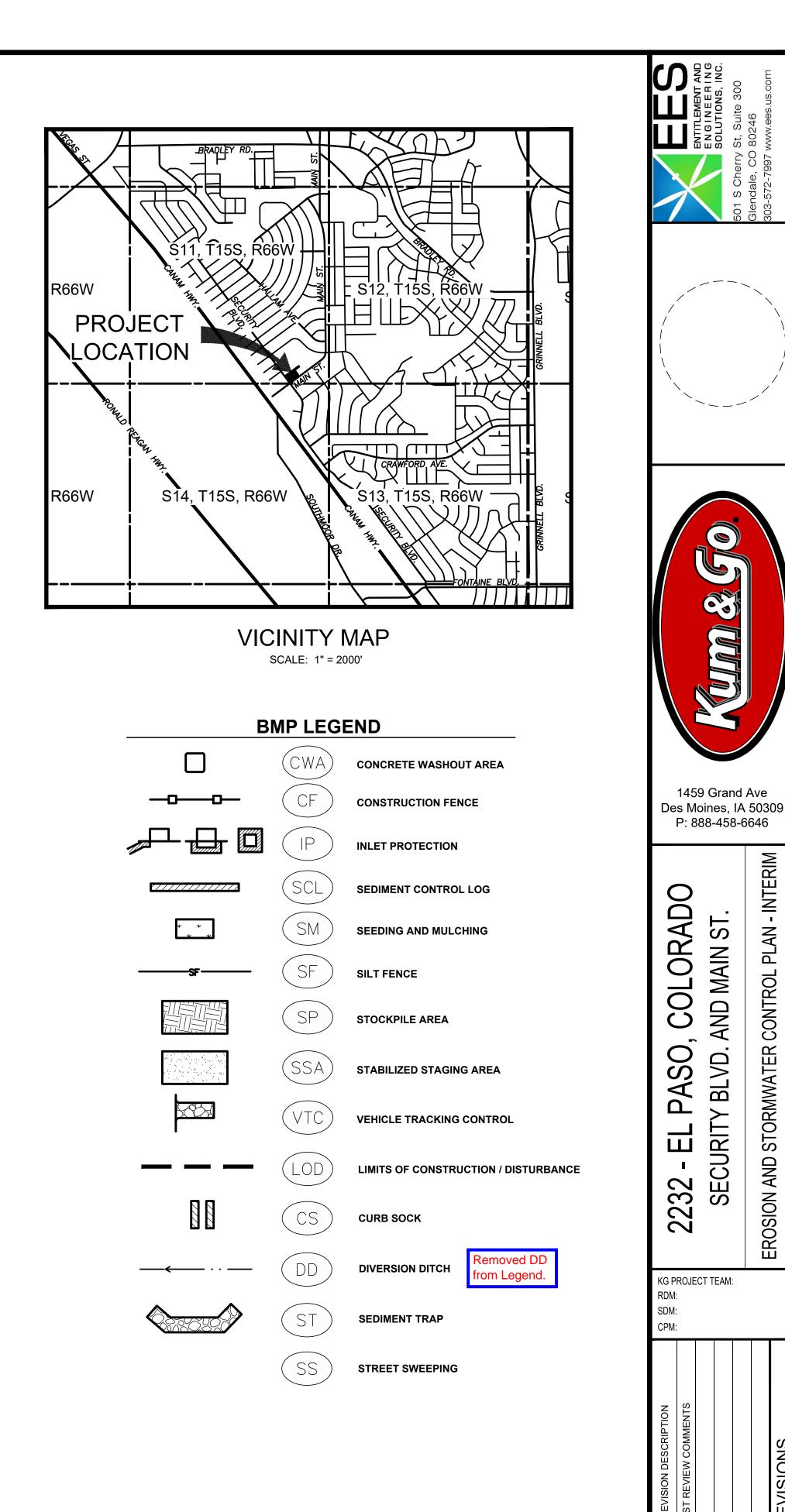
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GEOTECHNICAL ENGINEER: OLSSON REPORT NO. 021-05598

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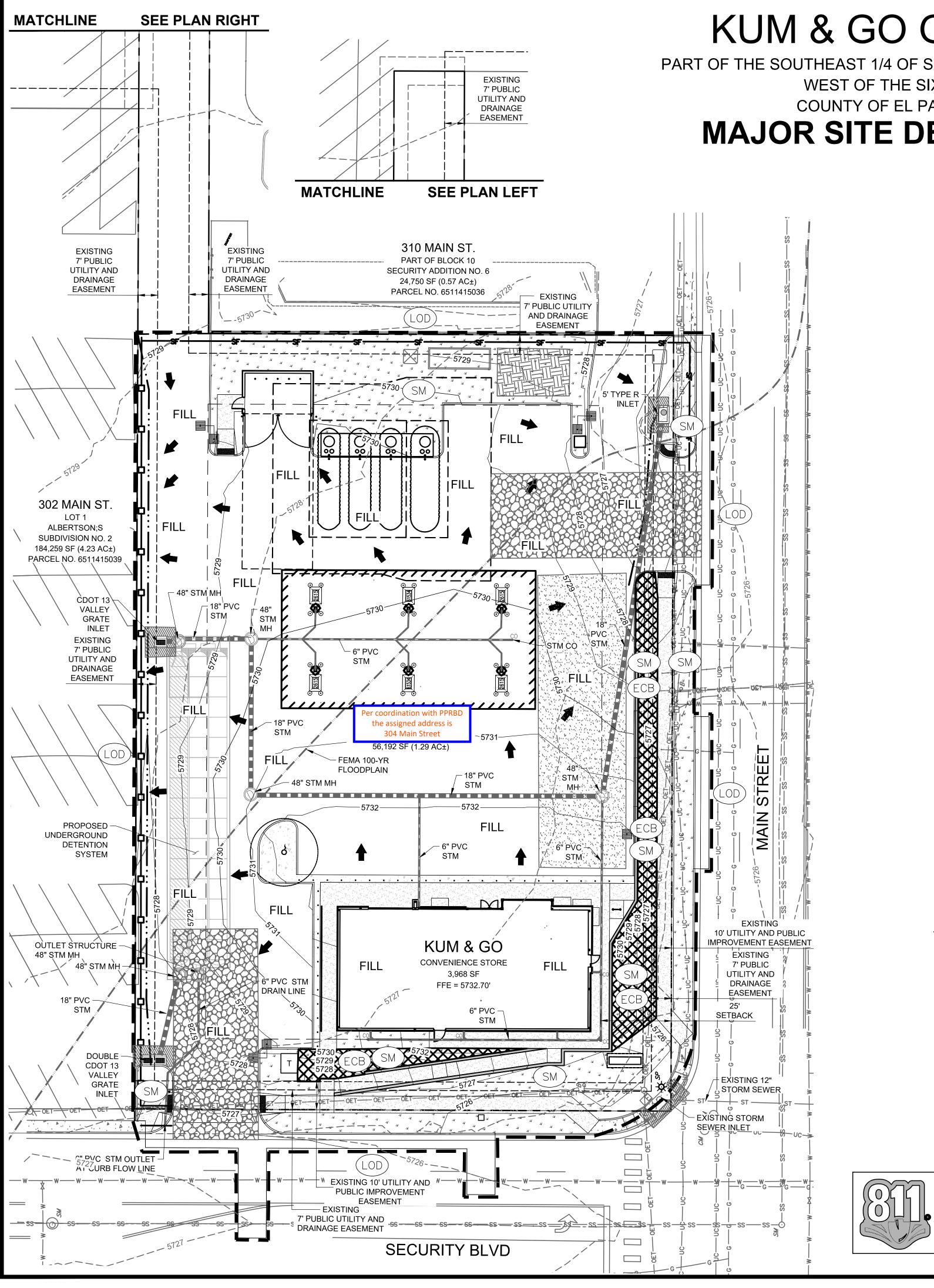
CRITERIA PLAN 04/2020

10-03-2022

C3.2

10 OF 35

HEET NUMBER:



PART OF THE SOUTHEAST 1/4 OF SECTION 11, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO

MAJOR SITE DEVELOPMENT PLAN

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	CONSTRUCTION / DISTURBANCE L	IMITS
	EXISTING FLOODPLAIN	
	EXISTING CURB & GUTTER	
	- EXISTING MAJOR CONTOUR	
5281	- EXISTING MINOR CONTOUR	
5730	- PROPOSED MAJOR CONTOUR	
5732	- PROPOSED MINOR CONTOUR	
	PROPOSED CURB & GUTTER	Added "Proposed
	PROPOSED BUILDING	Surface Flow Line" to the
	PROPOSED RETAINING WALL	Legend.
	PROPOSED STORM SEWER	
	EXISTING STORM SEWER MANHOL	_E/INLET
	PROPOSED STORM SEWER MANH	OLE/INLET
*	EXISTING STREET LIGHTING	
Ø	EXISTING FIRE HYDRANT	
<u></u>	EXISTING SIGNAGE	
-	PROPOSED SURFACE FLOW DIRE	CTION ARROW
	PROPOSED SITE LIGHTING	

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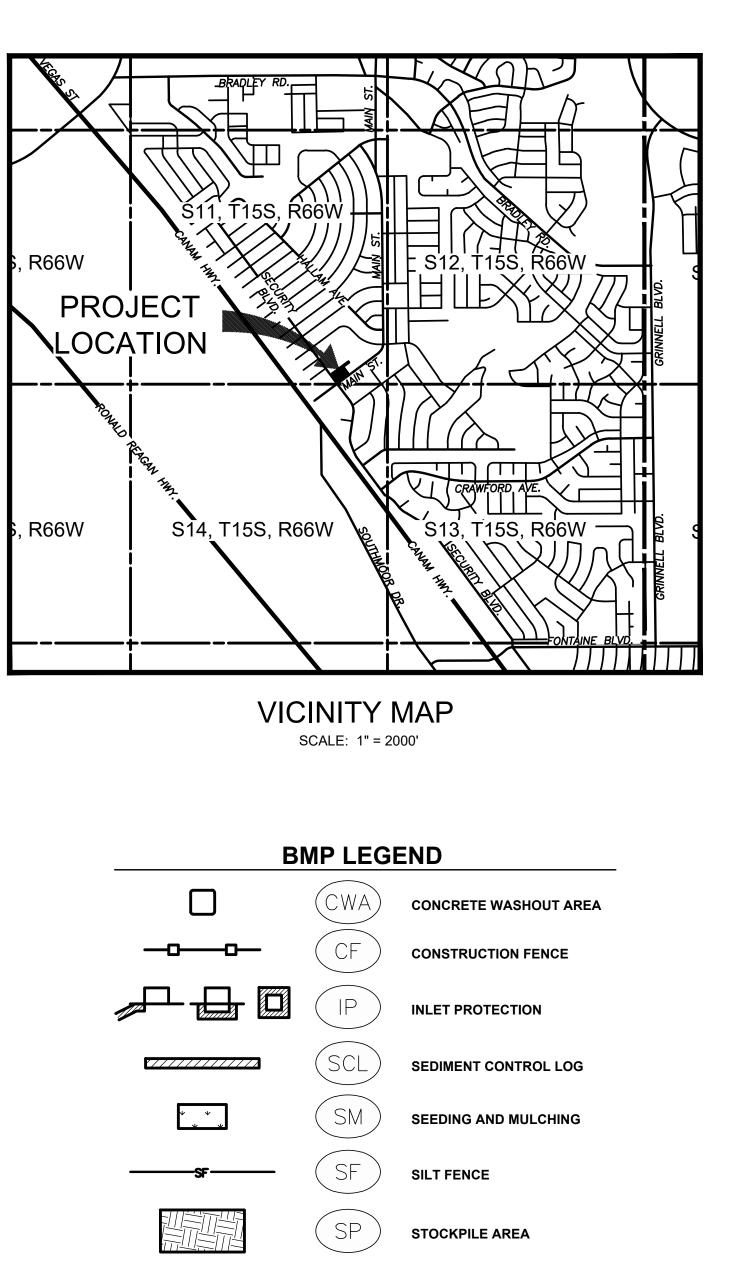
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SSA STABILIZED STAGING AREA

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SS

LIMITS OF CONSTRUCTION / DISTURBANCE

VEHICLE TRACKING CONTROL

CURB SOCK

DIVERSION DITCH

SEDIMENT TRAP

STREET SWEEPING

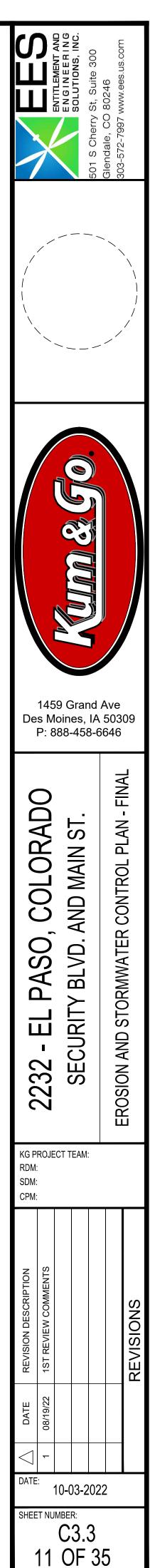
EROSION CONTROL BLANKET

BENCHMARK:

XXX

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PCD FILE NO. PPR-2225



GENERAL NOTES:

- 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.
- 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.
- 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.
- 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
- 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 EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- . 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 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 NE 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, UNCONTAMINATED GROUNDWATER 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 ON-SITE 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 ON-SITE 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 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, RULE, OR REGULATIONS SHALL APPI Y
- 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 EARTHWORK EQUIPMENT AND WIND.
- 28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY OLSSON ON DECEMBER 21ST, 2021 AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- 29. AT LEAST (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 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

- **EC-4**
- above).
- should be avoided.

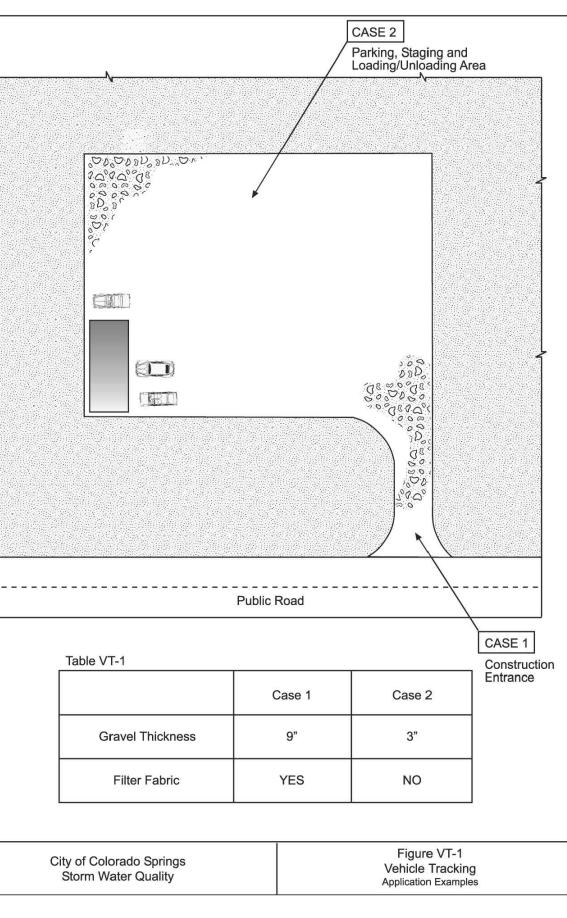
Maintenance and Removal

needed, to cover bare areas.

KUM & GO GAS & C-STORE

PART OF THE SOUTHEAST 1/4 OF SECTION 11, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO

MAJOR SITE DEVELOPMENT PLAN



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

• 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.

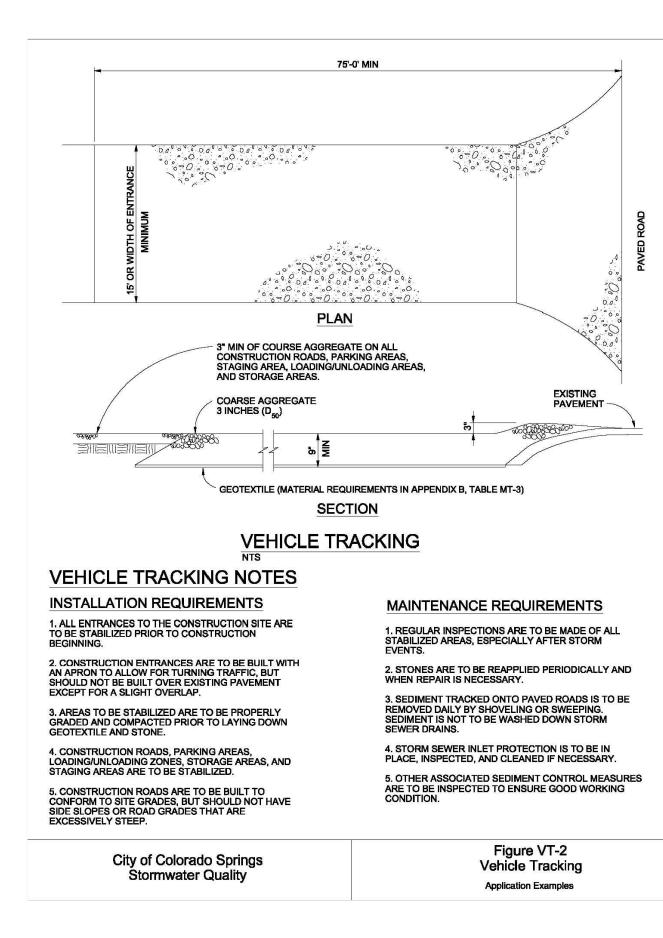
• Hydraulic mulching consists of wood cellulose fibers mixed with water and a tackifying agent and should be applied at a rate of no less than 1,500 pounds per acre (1,425 lbs of fibers mixed with at least 75 lbs of tackifier) with a hydraulic mulcher. For steeper slopes, up to 2000 pounds per acre may 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

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

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

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

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



SM-4

Vehicle Tracking Control (VTC)

STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES

1. SEE PLAN VIEW FOR -LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S).

-TYPE OF CONSTRUCTION ENTRANCE(S)/EXITS(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM)

2. CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.

3. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS. 4. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

5. A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK

6. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK. STABILIZED CONSTRUCTION ENTRANCE/EXIT 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. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.

5. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.

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

(DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

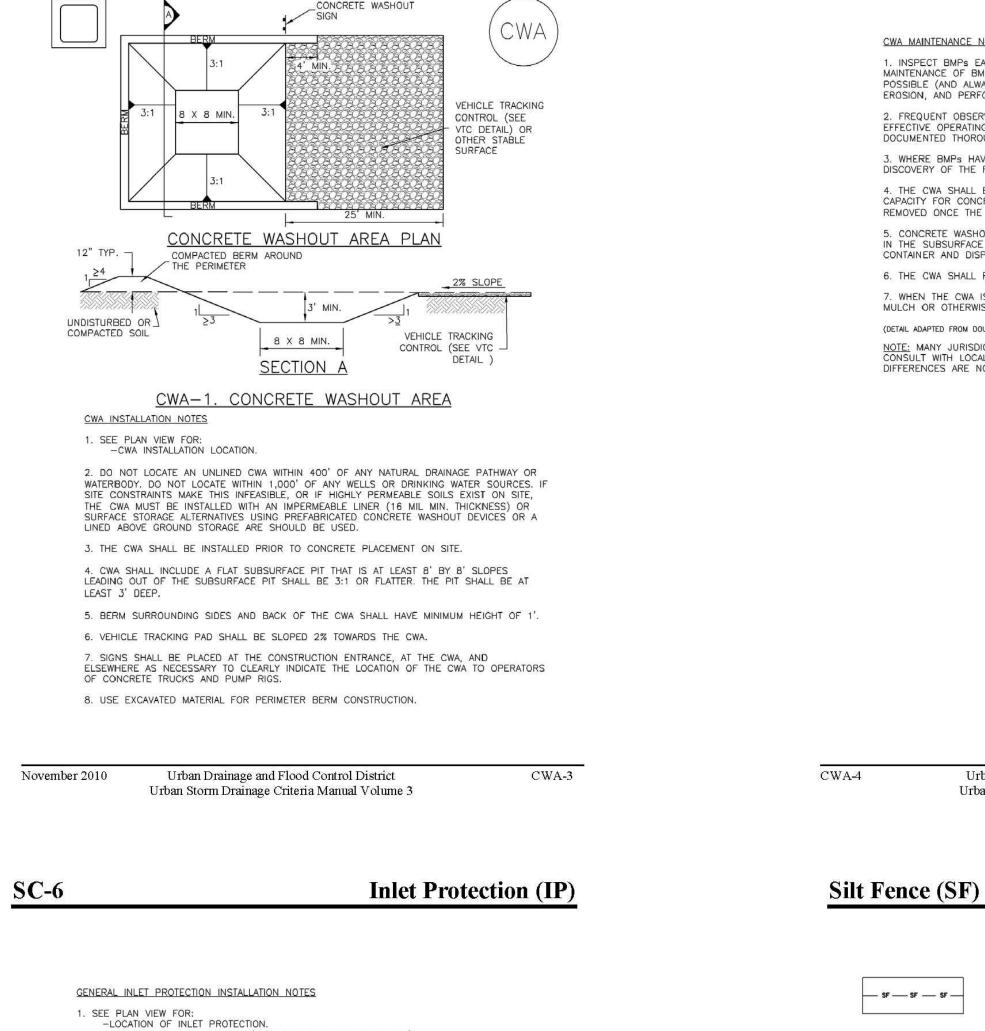
VTC-6



PCD FILE NO. PPR-2225

MM-1 CWA MAINTENANCE NOTES

DOCUMENTED THOROUGHLY DISCOVERY OF THE FAILURE CONTAINER AND DISPOSED OF PROPERLY.



MM-1

Concrete Washout Area (CWA)

-TYPE OF INLET PROTECTION (IP.1, IP.2, IP.3, IP.4, IP.5, IP.6) 2. INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS). IF A RAINFALL/RUNOFF EVENT IS FORECAST, INSTALL INLET PROTECTION PRIOR TO ONSET OF EVENT. 3. 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. 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 ECTIVE 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 INLET PROTECTION SHALL BE REMOVED AS NECESSARY TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN STORAGE VOLUME REACHES 50% OF CAPACITY, A DEPTH OF 6" WHEN SILT FENCE IS USED, OR 1/4 OF THE HEIGHT FOR STRAW BALES. 5. INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED, UNLESS THE LOCAL JURISDICTION APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS 6. WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION. (DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF 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 DIFFERENCES ARE NOTED. NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF INLET PROTECTION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY PROPRIETARY INLET PROTECTION METHODS ON THE MARKET, UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY INLET PROTECTION; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS. NOTE: SOME MUNICIPALITIES DISCOURAGE OR PROHIBIT THE USE OF STRAW BALES FOR INLET PROTECTION. CHECK WITH LOCAL JURISDICTION TO DETERMINE IF STRAW BALE INLET PROTECTION IS ACCEPTABLE.

FLOW ____

EXISTING

GROUND

ROTATE

Creation of

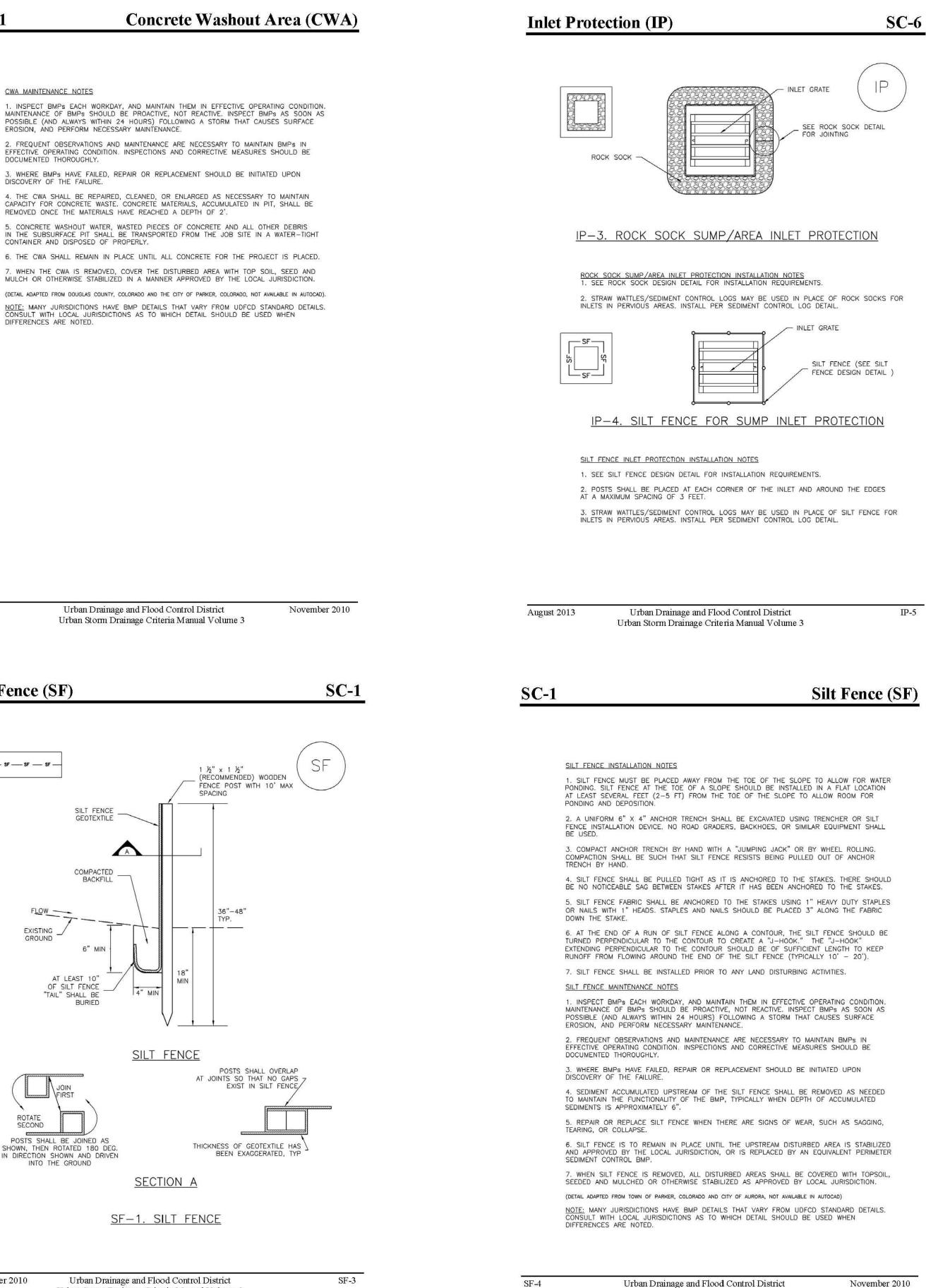
KUM & GO GAS & C-STORE

PART OF THE SOUTHEAST 1/4 OF SECTION 11, TOWNSHIP 15 SOUTH, RANGE 66

WEST OF THE SIXTH PRINCIPAL MERIDIAN,

COUNTY OF EL PASO, STATE OF COLORADO

MAJOR SITE DEVELOPMENT PLAN



Urban Storm Drainage Criteria Manual Volume 3

STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS:

- 1. 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.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND 2 FIELD 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 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, 3 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
- 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. 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.
- 9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- 10. 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.
- 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 DOT AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
- 14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, 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.

PCD FILE NO. PPR-2225 | 13 OF 35

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	2232 - EL PASO, CULURADO		SECURITY BLVD. AND MAIN ST.		EROSION AND STORMWATER CONTROL DETAILS	
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DATE: 10-03-2022 SHEET NUMBER: C3.5						

Temporary and Permanent Seeding (TS/PS) EC-2

have low nutrient value, little organic matter content, few soil microorganisms, rooting restrictions, and conditions less conducive to infiltration of precipitation. As a result, it is typically necessary to provide stockpiled topsoil, compost, or other soil amendments and rototill them into the soil to a depth of 6 inches or more.

Topsoil should be salvaged during grading operations for use and spread on areas to be revegetated later. Topsoil should be viewed as an important resource to be utilized for vegetation establishment, due to its water-holding capacity, structure, texture, organic matter content, biological activity, and nutrient content. The rooting depth of most native grasses in the semi-arid Denver metropolitan area is 6 to 18 inches. If present, at a minimum of the upper 6 inches of topsoil should be stripped, stockpiled, and ultimately respread across areas that will be revegetated.

Where topsoil is not available, subsoils should be amended to provide an appropriate plant-growth medium. Organic matter, such as well digested compost, can be added to improve soil characteristics conducive to plant growth. Other treatments can be used to adjust soil pH conditions when needed. Soil testing, which is typically inexpensive, should be completed to determine and optimize the types and amounts of amendments that are required.

If the disturbed ground surface is compacted, rip or rototill the upper 12 inches of the surface prior to placing topsoil. If adding compost to the existing soil surface, rototilling is necessary. Surface roughening will assist in placing a stable topsoil layer on steeper slopes, and allow infiltration and root penetration to greater depth. Topsoil should not be placed when either the salvaged topsoil or receiving ground are frozen or snow covered.

Prior to seeding, the soil surface should be rough and the seedbed should be firm, but neither too loose nor compacted. The upper layer of soil should be in a condition suitable for seeding at the proper depth and conducive to plant growth. Seed-to-soil contact is the key to good germination.

Refer to MHFD's Topsoil Management Guidance for detailed information on topsoil assessment, design, and construction.

Temporary Vegetation

To provide temporary vegetative cover on disturbed areas which will not be paved, built upon, or fully landscaped or worked for an extended period (typically 30 days or more), plant an annual grass appropriate for the time of planting and mulch the planted areas. Temporary grain seed mixes suitable for the Denver metropolitan area are listed in Table TS/PS-1. Native temporary seed mixes are provided in USDCM Volume 2, Chapter 13, Appendix A. These are to be considered only as general recommendations when specific design guidance for a particular site is not available. Local governments typically specify seed mixes appropriate for their jurisdiction.

Permanent Revegetation

TS/PS-2

To provide vegetative cover on disturbed areas that have reached final grade, a perennial grass mix should be established. Permanent seeding should be performed promptly (typically within 14 days) after reaching final grade. Each site will have different characteristics and a landscape professional or the local jurisdiction should be contacted to determine the most suitable seed mix for a specific site. In lieu of a specific recommendation, one of the perennial grass mixes appropriate for site conditions and growth season listed in seed mix tables in the USDCM Volume 2 Revegetation Chapter can be used. The pure live seed (PLS) rates of application recommended in these tables are considered to be absolute minimum rates for seed applied using proper drill-seeding equipment. These are to be considered only as general

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Earth Dikes and Drainage Swales (ED/DS) **EC-10**

Unlined dikes or swales should only be used for intercepting sheet flow runoff and are not intended for diversion of concentrated flows.

Details with notes are provided for several design variations, including:

ED-1. Unlined Earth Dike formed by Berm

- DS-1. Unlined Excavated Swale
- DS-2. Unlined Swale Formed by Cut and Fill
- DS-3. ECB-lined Swale
- DS-4. Synthetic-lined Swale
- DS-5. Riprap-lined Swale

The details also include guidance on permissible velocities for cohesive channels if unlined approaches will be used.

Maintenance and Removal

Inspect earth dikes for stability, compaction, and signs of erosion and repair. Inspect side slopes for erosion and damage to erosion control fabric. Stabilize slopes and repair fabric as necessary. If there is reoccurring extensive damage, consider installing rock check dams or lining the channel with riprap.

If drainage swales are not permanent, remove dikes and fill channels when the upstream area is stabilized. Stabilize the fill or disturbed area immediately following removal by revegetation or other permanent stabilization method approved by the local jurisdiction.

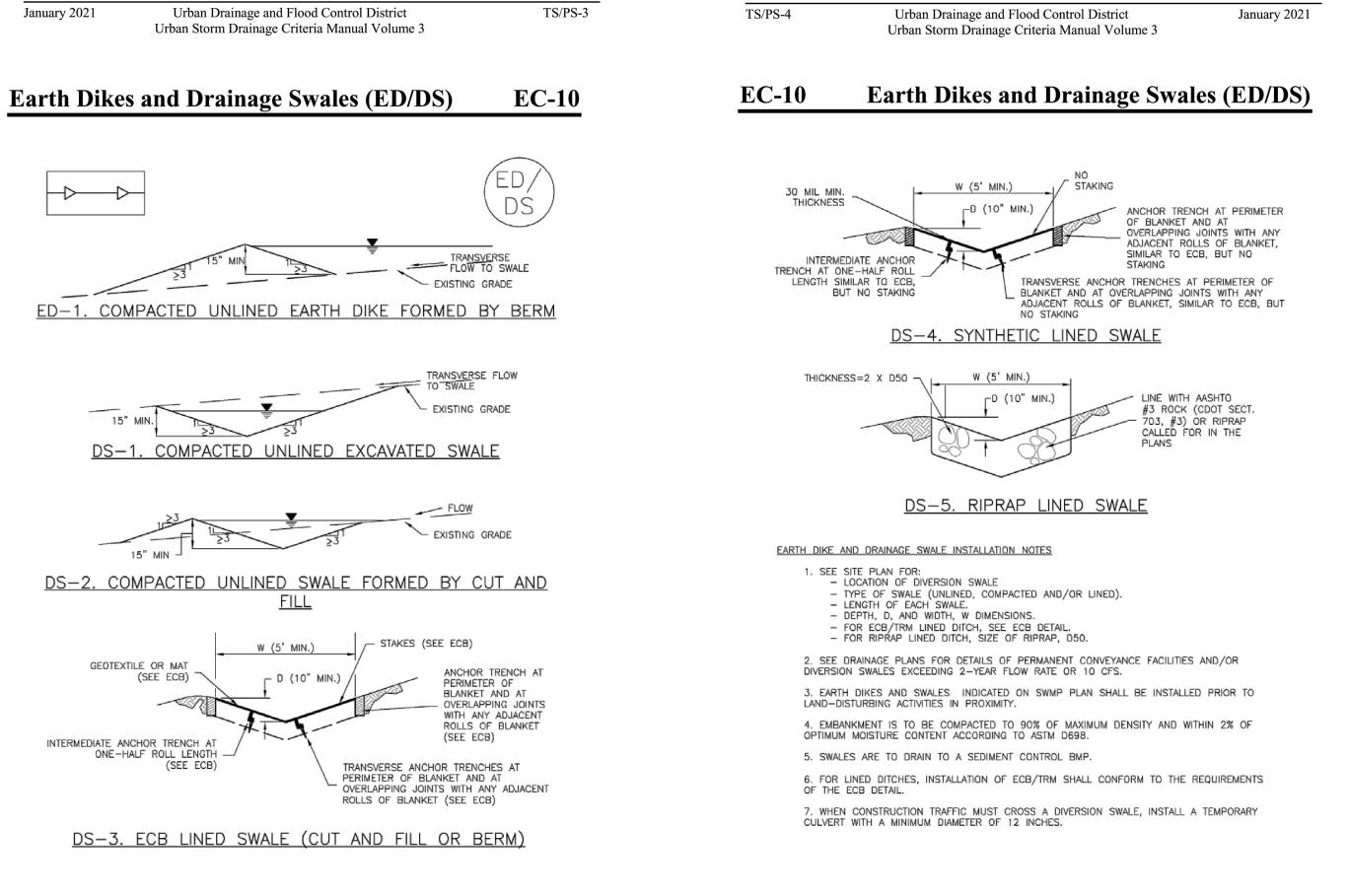
Temporary and Permanent Seeding (TS/PS) EC-2

recommendations when specific design guidance for a particular site is not available. Local governments typically specify seed mixes appropriate for their jurisdiction.

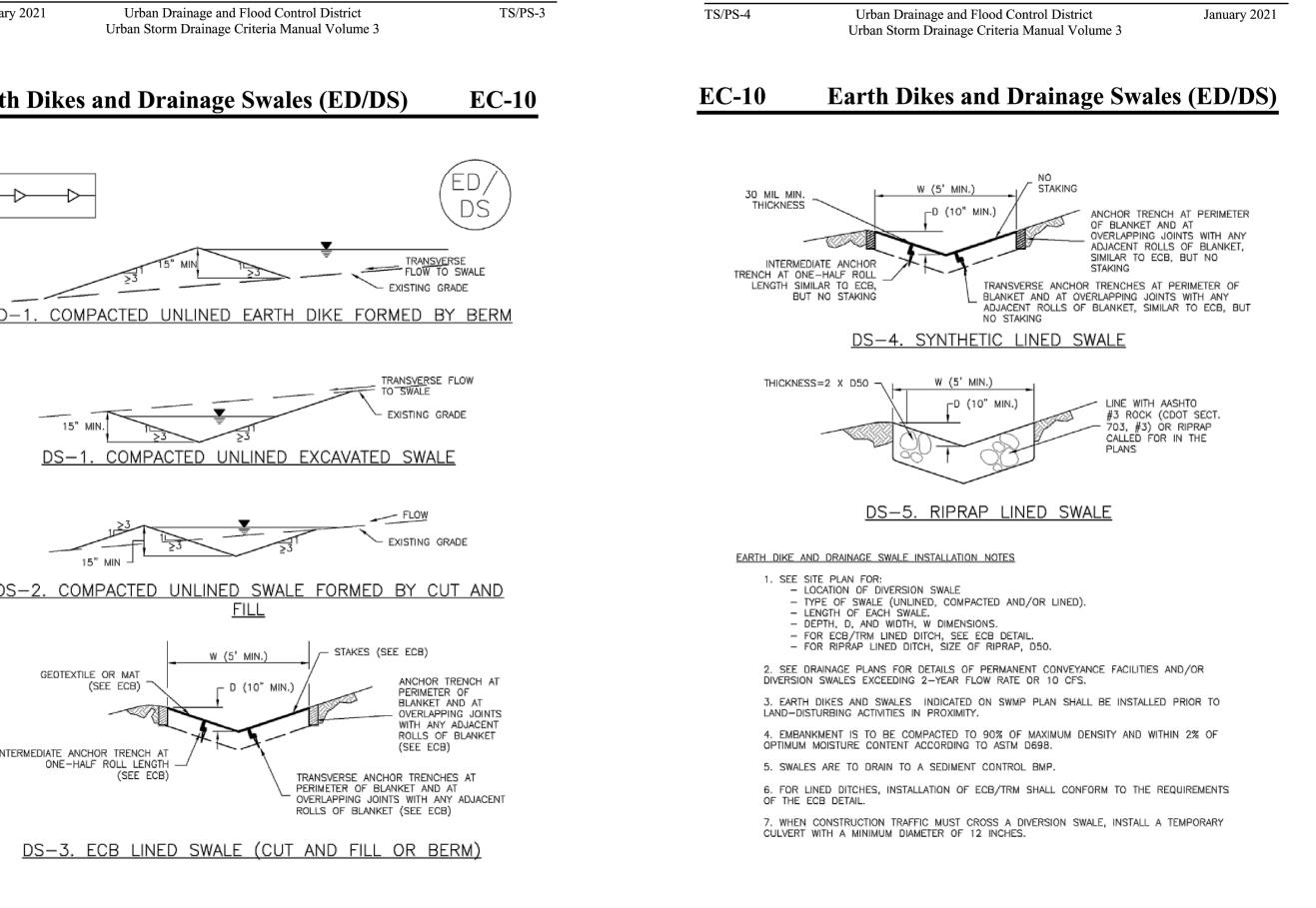
If desired for wildlife habitat or landscape diversity, shrubs such as rubber rabbitbrush (Chrysothamnus nauseosus), fourwing saltbush (Atriplex canescens) and skunkbrush sumac (Rhus trilobata) could be added to the upland seed mixes at 0.25, 0.5 and 1 pound PLS/acre, respectively. In riparian zones, planting root stock of such species as American plum (Prunus americana), woods rose (Rosa woodsii), plains cottonwood (Populus sargentii), and willow (Salix spp.) may be considered. On non-topsoiled upland sites, a legume such as Ladak alfalfa at 1 pound PLS/acre can be included as a source of nitrogen for perennial grasses.

Timing of seeding is an important aspect of the revegetation process. For upland and riparian areas on the Colorado Front Range, the suitable timing for seeding is from October through May. The most favorable time to plant non-irrigated areas is during the fall, so that seed can take advantage of winter and spring moisture. Seed should not be planted if the soil is frozen, snow covered, or wet.

Seeding dates for the highest success probability of perennial species along the Front Range are generally in the spring from April through early May and in the fall after the first of September until the ground freezes. If the area is irrigated, seeding may occur in summer months, as well. See Table TS/PS-2 for appropriate seeding dates.



ED-1.	COMPACTED	UNL



ED/DS-2

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

KUM & GO GAS & C-STORE

PART OF THE SOUTHEAST 1/4 OF SECTION 11, TOWNSHIP 15 SOUTH, RANGE 66

WEST OF THE SIXTH PRINCIPAL MERIDIAN,

COUNTY OF EL PASO, STATE OF COLORADO

MAJOR SITE DEVELOPMENT PLAN

EC-2

Temporary and Permanent Seeding (TS/PS)

Table TS/PS-1. Minimum Drill Seeding Rates for Various Temporary Annual Grasses

Species ^a (Common name)	Growth Season ^b	Pounds of Pure Live Seed (PLS)/acre ^c	Planting Depth (inches)
1. Oats	Cool	35 - 50	1 - 2
2. Spring wheat	Cool	25 - 35	1 - 2
3. Spring barley	Cool	25 - 35	1 - 2
4. Annual ryegrass	Cool	10 - 15	1/2
5. Millet	Warm	3 - 15	1/2 - 3/4
6. Winter wheat	Cool	20–35	1 - 2
7. Winter barley	Cool	20–35	1 - 2
8. Winter rye	Cool	20–35	1 - 2
9. Triticale	Cool	25–40	1 - 2

Successful seeding of annual grass resulting in adequate plant growth will usually produce enough dead-plant residue to provide protection from wind and water erosion for an additional year. This assumes that the cover is not disturbed or mowed closer than 8 inches.

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

- See Table TS/PS-2 for seeding dates. Irrigation, if consistently applied,
- may extend the use of cool season species during the summer months.

Seeding rates should be doubled if seed is broadcast, or increased by 50 percent if done using a Brillion Drill or by hydraulic seeding.

Temporary and Permanent Seeding (TS/PS)

 Table TS/PS-2.
 Seeding Dates for Annual and Perennial Grasses

	(Numbers in	Annual Grasses (Numbers in table reference species in Table TS/PS-1)		Perennial Grasses	
Seeding Dates	Warm	Cool	Warm	Cool	
January 1–March 15			\checkmark	✓	
March 16–April 30		1,2,3	\checkmark	✓	
May 1–May 15			\checkmark		
May 16–June 30	5				
July 1–July 15	5				
July 16–August 31					
September 1–September 30		6, 7, 8, 9			
October 1–December 31			\checkmark	✓	

Mulch

Cover seeded areas with mulch or an appropriate rolled erosion control product to promote establishment of vegetation. Anchor mulch by crimping, netting or use of a non-toxic tackifier. See the USDCM Volume 2 *Revegetation* Chapter and Volume 3 Mulching BMP Fact Sheet (EC-04) for additional guidance.

Maintenance and Removal

Monitor and observe seeded areas to identify areas of poor growth or areas that fail to germinate. Reseed and mulch these areas, as needed.

If a temporary annual seed was planted, the area should be reseeded with the desired perennial mix when there will be no further work in the area. To minimize competition between annual and perennial species, the annual mix needs time to mature and die before seeding the perennial mix. To increase success of the perennial mix, it should be seeded during the appropriate seeding dates the second year after the temporary annual mix was seeded. Alternatively, if this timeline is not feasible, the annual mix seed heads should be removed and then the area seeded with the perennial mix.

An area that has been permanently seeded should have a good stand of vegetation within one growing season if irrigated and within three growing seasons without irrigation in Colorado. Reseed portions of the site that fail to germinate or remain bare after the first growing season.

Seeded areas may require irrigation, particularly during extended dry periods. Targeted weed control may also be necessary.

Protect seeded areas from construction equipment and vehicle access.

Urban Drainage and Flood Control District January 2021 Urban Storm Drainage Criteria Manual Volume 3

EROSION, AND PERFORM NECESSARY MAINTENANCE

DOCUMENTED THOROUGHLY

DIFFERENCES ARE NOTED.

November 2010

TS/PS-5

EC-2

Earth Dikes and Drainage Swales (ED/DS) **EC-10**

EARTH DIKE AND DRAINAGE SWALE 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

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

DISCOVERY OF THE FAILURE 4. SWALES SHALL REMAIN IN PLACE UNTIL THE END OF CONSTRUCTION; IF APPROVED BY LOCAL JURISDICTION, SWALES MAY BE LEFT IN PLACE

5. WHEN A SWALE IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

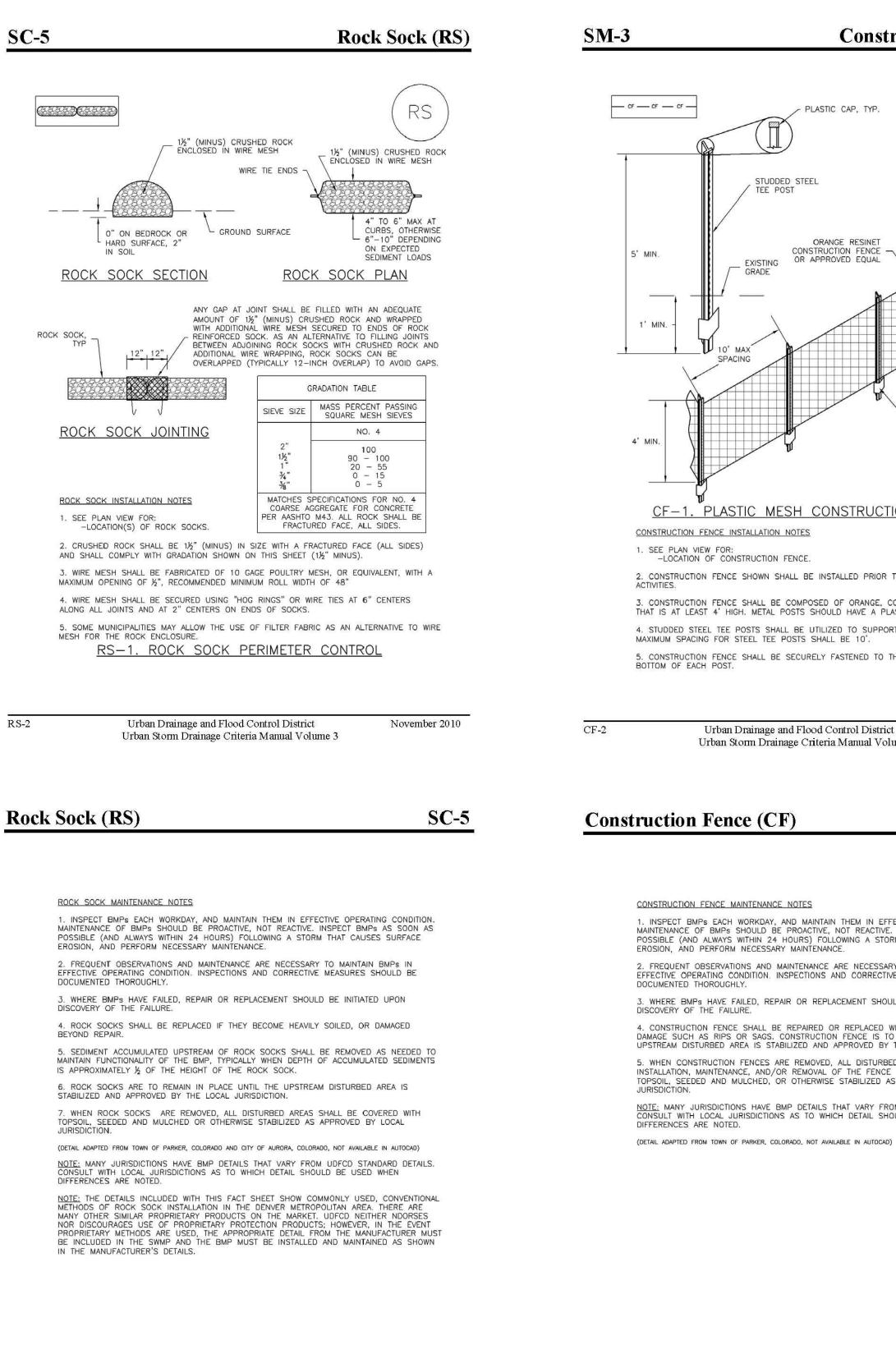
(DETAIL ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF COLORADO SPRINGS, COLORADO, NOT AVAILABLE IN AUTOCAD) NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS.

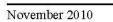


Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 ED/DS-5

PCD FILE NO. PPR-2225







PART OF THE SOUTHEAST 1/4 OF SECTION 11, TOWNSHIP 15 SOUTH, RANGE 66

WEST OF THE SIXTH PRINCIPAL MERIDIAN,

COUNTY OF EL PASO, STATE OF COLORADO

MAJOR SITE DEVELOPMENT PLAN

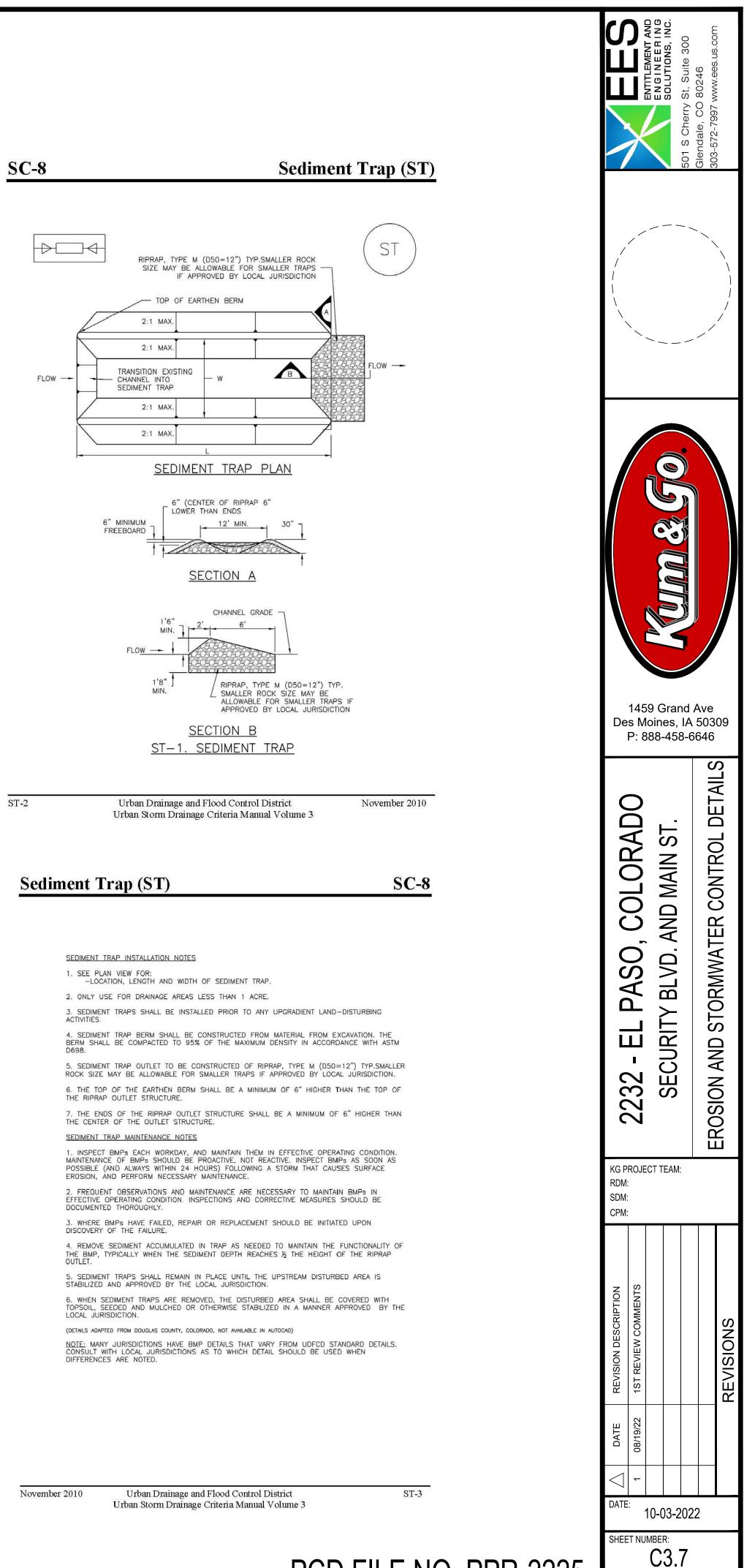
Construction Fence	(CF) Stabi	lized Staging Area (SSA))	SM-6
	CONSIST	STABILIZED STAGING AREA SHOULD BE APPRO OVERSIZING RESULTS IN A LARGER AREA TO STA 3. STAGING AREA SHALL BE STABILIZED PRIOR T 4. THE STABILIZED STAGING AREA SHOULD BE APPRO OVERSIZING RESULTS IN A LARGER AREA TO STA 3. STAGING AREA SHALL BE STABILIZED PRIOR T 4. THE STABILIZED STAGING AREA SHOULD BE APPRO OVERSIZING RESULTS IN A LARGER AREA TO STA 3. STAGING AREA SHALL BE STABILIZED PRIOR T 4. THE STABILIZED STAGING AREA SHOULD BE APPRO OVERSIZING RESULTS IN A LARGER AREA TO STA 3. STAGING AREA SHALL BE STABILIZED PRIOR T 4. THE STABILIZED STAGING AREA SHOULD BE APPRO OVERSIZING RESULTS IN A LARGER AREA TO STA 3. STAGING AREA SHALL BE STABILIZED PRIOR T 4. THE STABILIZED STAGING AREA SHALL CONSIS MATERIAL. 5. UNLESS OTHERWISE SPECIFIED BY LOCAL JUR SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6. ADDITIONAL PERIMETER BMP'S MAY BE REQUIR FENCE AND CONSTRUCTION FENCING. STABILIZED STAGING AREA MAINTENANCE NOTES 1. INSPECT BMP'S EACH WORKDAY, AND MAINTAIN MAINTENANCE OF BMP'S SHOULD BE PROACTIVE, POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLL EROSION, AND PERFORM NECESSARY MAINTENANCE	STAGING AREA SIZE OF STAGING AREA WITH APPF OPRIATE FOR THE NEEDS OF THE ST ABILIZE FOLLOWING CONSTRUCTION. TO OTHER OPERATIONS ON THE SIT STO F A MINIMUM 3" THICK GRANU RISDICTION, ROCK SHALL CONSIST OF A MINIMUM THICK OPERATING OF NOT REACTIVE. INSPECT BMPS AS LOWING A STORM THAT CAUSES SLOWING A	L INSTRUCTION D ROVAL SITE. E. LAR DF DOT D SILT CONDITION. SOON AS IRFACE s IN
FENCE SHALL BE COMPOSED OF ORANGE, CONTRACTOR-GRADE MATERIAL 4' HIGH. METAL POSTS SHOULD HAVE A PLASTIC CAP FOR SAFETY.	-	EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY. 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON		
TEE POSTS SHALL BE UTILIZED TO SUPPORT THE CONSTRUCTION FENCE. FOR STEEL TEE POSTS SHALL BE 10'.		DISCOVERY OF THE FAILURE.		
FENCE SHALL BE SECURELY FASTENED TO THE TOP, MIDDLE, AND POST.		 ROCK SHALL BE REAPPLIED OR REGRADED AS UNDERLYING SUBGRADE BECOMES EXPOSED. 	S NECESSARY IF RUTTING OCCURS	OR
rban Drainage and Flood Control District November oan Storm Drainage Criteria Manual Volume 3	er 2010 November	2010 Urban Drainage and Flood Co Urban Storm Drainage Criteria M		SSA-3
ence (CF)	SM-3 <u>SM-6</u>	Stabi	lized Staging Are	ea (SSA)
ence (CF) S	<u>SM-3</u> <u>SM-6</u>	Stabi	lized S	Staging Are

- 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
- 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 4. CONSTRUCTION FENCE SHALL BE REPAIRED OR REPLACED WHEN THERE ARE SIGNS OF DAMAGE SUCH AS RIPS OR SAGS. CONSTRUCTION FENCE IS TO REMAIN IN PLACE UNTIL THE
- UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION. 5. WHEN CONSTRUCTION FENCES ARE REMOVED, ALL DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE FENCE SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED AS APPROVED BY LOCAL
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN

STABILIZED STAGING AREA MAINTENANCE NOTES

- 5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS. 6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR
- OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.
- NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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



PCD FILE NO. PPR-2225

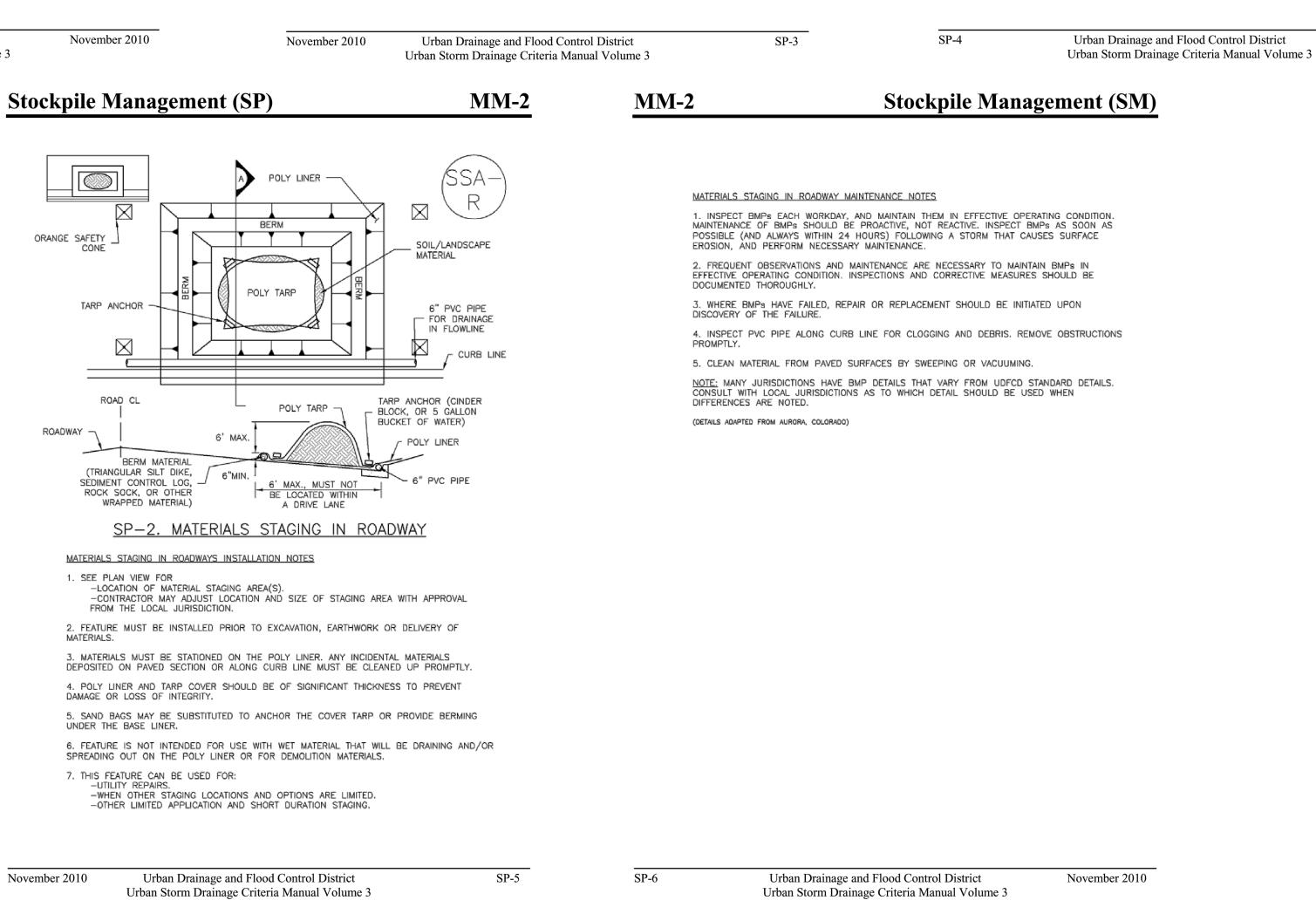
Stockpile Management (SM)

When the stockpile is no longer needed, properly dispose of excess materials and revegetate or otherwise stabilize the ground surface where the stockpile was located.

MM-2

SP-2

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



KUM & GO GAS & C-STORE

PART OF THE SOUTHEAST 1/4 OF SECTION 11, TOWNSHIP 15 SOUTH, RANGE 66

WEST OF THE SIXTH PRINCIPAL MERIDIAN,

COUNTY OF EL PASO, STATE OF COLORADO

MAJOR SITE DEVELOPMENT PLAN

Stockpile Management (SP)

STOCKPILE PROTECTION INSTALLATION NOTES

-LOCATION OF STOCKPILES. -TYPE OF STOCKPILE PROTECTION.

PERIMETER CONTROLS MAY NOT BE REQUIRED.

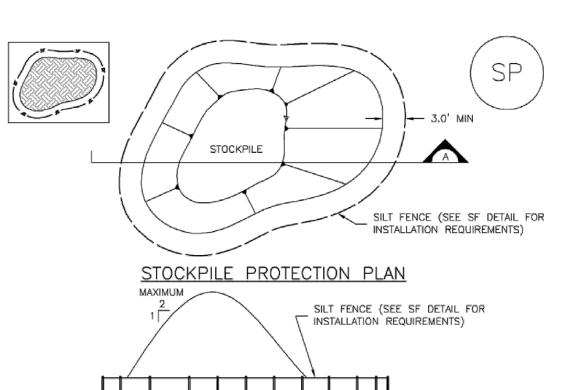
OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.

IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).

1. SEE PLAN VIEW FOR:

MM-2

MM-2



SECTION A

SP-1. STOCKPILE PROTECTION

2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS

LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS

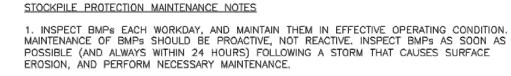
3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND

4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE

OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE

MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED

WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS), USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE



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. STOCKPILE PROTECTION MAINTENANCE NOTES

4. IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORKDAY. 5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE

STOCKPILE HAS BEEN USED. (DETAILS ADAPTED FROM PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

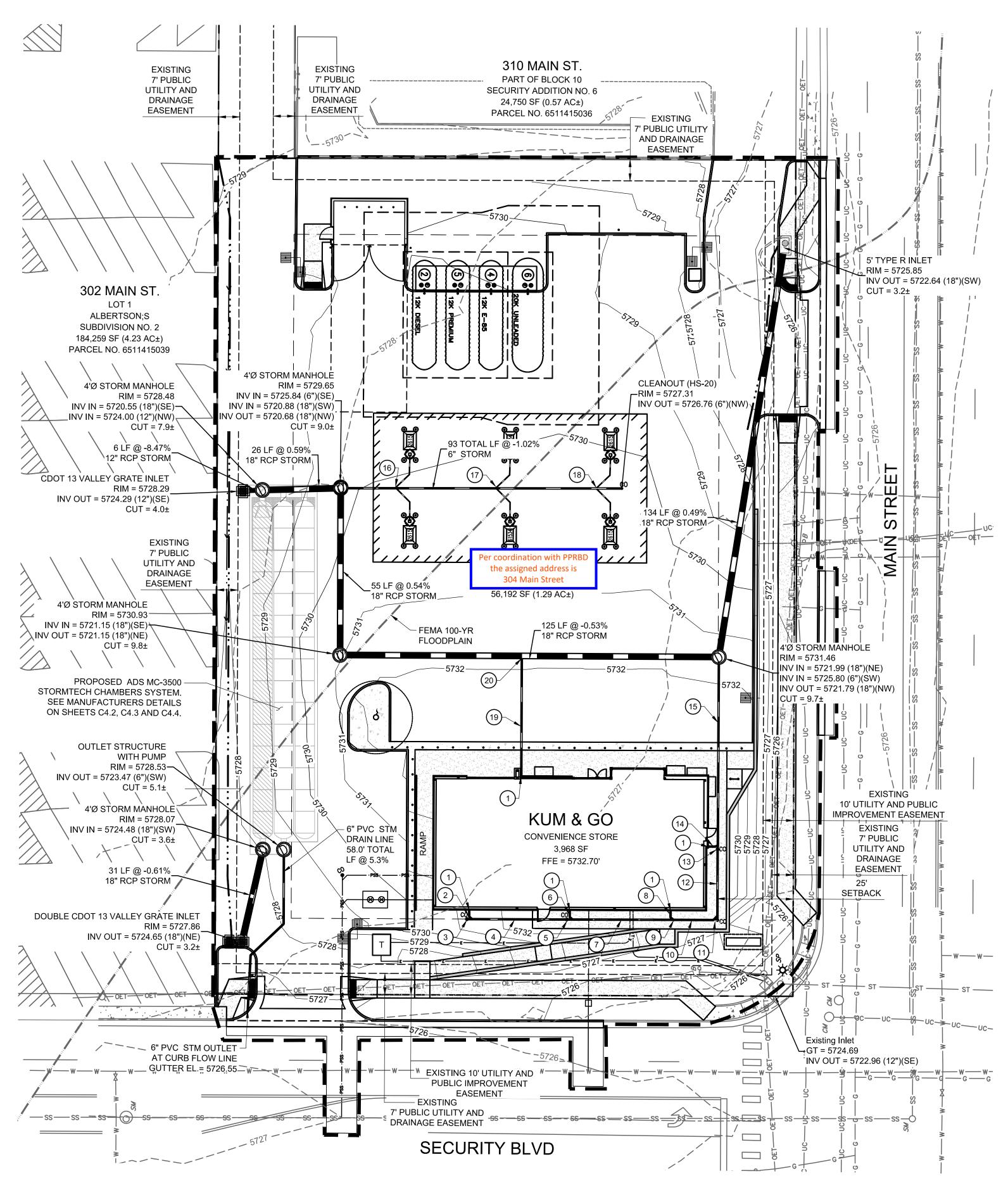
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

Stockpile Management (SM)

November 2010

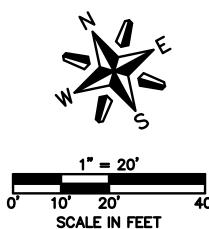
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0 1459 Grand Ave Des Moines, IA 50309 P: 888-458-6646 ဟ AIL DET. \mathbf{O} \bigcirc <u>⊢</u>. CONTROL ဟ <u>S</u> S S S AND MAIN 5 \mathbf{O} STORMWATER BLVD. O တ \triangleleft \succ SECURIT Ш AND **EROSION** \sim \mathcal{C} \sim \sim KG PROJECT TEAM: RDM: SDM CPM: JAIE 10-03-2022 HEET NUMBER: C3.8 16 OF 35



PART OF THE SOUTHEAST 1/4 OF SECTION 11, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO

MAJOR SITE DEVELOPMENT PLAN



STORM SEWER PLAN LEGEND

		-	_	_	
G	- G	G G -	— G –	— G —	
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ER PLAN LEGEND			
EXISTING GAS			
EXISTING SANITARY SEWER			
EXISTING STORM SEWER			
EXISTING OVERHEAD ELECTRICAL AND TELECOMMUNICATIONS	L		
EXISTING UNDERGROUND TELEC	OMMUNICATIONS		
EXISTING WATER			
CONSTRUCTION / DISTURBANCE	LIMITS		
PROPERTY BOUNDARY			
EXISTING EASEMENT			
EXISTING FLOODPLAIN			
EXISTING CURB & GUTTER			
EXISTING MAJOR CONTOUR			
EXISTING MINOR CONTOUR			
PROPOSED MAJOR CONTOUR			
PROPOSED MINOR CONTOUR	Added "Proposed		
PROPOSED CURB & GUTTER Surface Flow			
PROPOSED BUILDING	Line" to the legend		
PROPOSED STORM SEWER			
EXISTING STORM SEWER MANHO	LE/INLET		
PROPOSED STORM SEWER MANH	IOLE/INLET		
EXISTING STREET LIGHTING			
EXISTING FIRE HYDRANT			
EXISTING SIGNAGE			
PROPOSED SITE LIGHTING			

BENCHMARK:

ELEVATIONS ARE BASED UPON COLORADO SPRINGS UTILITIES FIMS CONTROL MONUMENT SE09, BEING A 2-INCH DIAMETER ALUMINUM CAP STAMPED "CSU FIMS CONTROL SE09" ON THE EAST CORNER OF THE CONCRETE BASE OF A TELEPHONE RELAY BOX AT THE EAST CORNER OF 226 MAIN STREET, ABOUT 3 FEET NORHTWEST OF THE NORTHWEST CURB OF MAIN STREET, AND ABOUT 205 FEET SOUTHWEST OF THE SOUTHWEST CURB LINE OF SECURITY BOULEVARD. CITY ELEVATION: 5726.76 (NGVD 29)

PRIVATE ROOF DRAIN APPURTENANCES NOTES:

-	
1	PROPOSED 6" ROOF DRAIN DOWN SPOUT BUILDING CONNECTION. REFER TO ARCHITECTURAL PLANS FOR DETAILS AND INFORMATION REGARDING POINT OF CONNECTION / CONTINUATION AT THE BUILDING. 6" INV.=5729.20
2	PROPOSED 6" ASTM 3034 SDR-35 PVC ROOF DRAIN 2.5 LF @ 2.0%
3	PROPOSED 6" STORM CLEANOUT WITH WYE CONNECTION (E) RIM EL.=5831.20 INV.=5729.16
4	PROPOSED 6" ASTM 3034 SDR-35 PVC ROOF DRAIN 31.2 LF @ 2.0%
5	PROPOSED 6" STORM CLEANOUT WITH WYE CONNECTION (E) RIM EL.=5732.65 INV.=5728.51
6	PROPOSED 6" ASTM 3034 SDR-35 PVC ROOF DRAIN 2.5 LF @ 21.0%
7	PROPOSED 6" ASTM 3034 SDR-35 PVC ROOF DRAIN 33.2 LF @ 2.0%
8	PROPOSED 6" ASTM 3034 SDR-35 PVC ROOF DRAIN 2.5 LF @ 40.0%
9	PROPOSED 6" WYE CONNECTION INV.=5727.81
10	PROPOSED 6" ASTM 3034 SDR-35 PVC ROOF DRAIN 13.1 LF @ 2.0%
(11)	PROPOSED 6" STORM CLEANOUT WITH WYE CONNECTION (N) RIM EL.=5832.63 INV.=5727.54
\sim	

- (12) PROPOSED 6" ASTM 3034 SDR-35 PVC ROOF DRAIN 21.8 LF @ 2.0%
- (13) PROPOSED 6" STORM CLEANOUT WITH WYE CONNECTION (N) RIM EL.=5832.65 INV.=5727.04
- (14) PROPOSED 6" ASTM 3034 SDR-35 PVC ROOF DRAIN 2.5 LF @ 69.0%
- (15) PROPOSED 6" ASTM 3034 SDR-35 PVC ROOF DRAIN 62.1 LF @ 2.0%
- (16) 6" CANOPY DRAINAGE CONNECTION, EAST AND WEST. INV.=5726.06
- (17) 6" CANOPY DRAINAGE CONNECTION, EAST AND WEST. INV.=5726.45
- (18) 6" CANOPY DRAINAGE CONNECTION, EAST AND WEST. INV.=5726.85
- (19) PROPOSED 6" ASTM 3034 SDR-35 PVC ROOF DRAIN 39.2 LF @ 20.1%
- 20 PROPOSED 18"X6" INSERT-A-TEE 18" INV.=5721.45

Know what's **below**. **Call** before you dig.

PCD FILE NO. PPR-2225

CALL 811 SEVENTY-TWO HOURS PRIOR TO DIGGING, GRADING OR EXCAVATING FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

00 1459 Grand Ave Des Moines, IA 50309 P: 888-458-6646 **VDO** လ COLOR/ AND MAIN PLAN SEWER 2232 - EL PASO, SECURITY BLVD. / STORM N KG PROJECT TEAM: CPM DATE 10-03-2022 IEET NUMBER: C4.1



CRITERIA PLAN 04/2020

	PROJEC	CT INFORMATION	
	SINEERED PRODUCT NAGER		
ADS	SALES REP		
PRC	JECT NO.		,
M	C-3500 STOR	MTECH CHAMBER SPEC	EL
1.	CHAMBERS SHALL BE S	TORMTECH MC-3500.	
2.	CHAMBERS SHALL BE A COPOLYMERS.	RCH-SHAPED AND SHALL BE MANUFACTURED FI	ROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE
3.		T THE REQUIREMENTS OF ASTM F2418, "STANDA DILECTION CHAMBERS" CHAMBER CLASSIFICATI	RD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED ON 45x76 DESIGNATION SS.
4.		JLLECTION CHANIBERS CHANIBER CLASSIFICATI	
			RNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD

CIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787,

- "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION: TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS. TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS
- THAN 3" TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER
- DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS. 8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN
- ENGINEER OR OWNER. THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS: THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
- THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
- THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.



K&G

EL PASO, CO

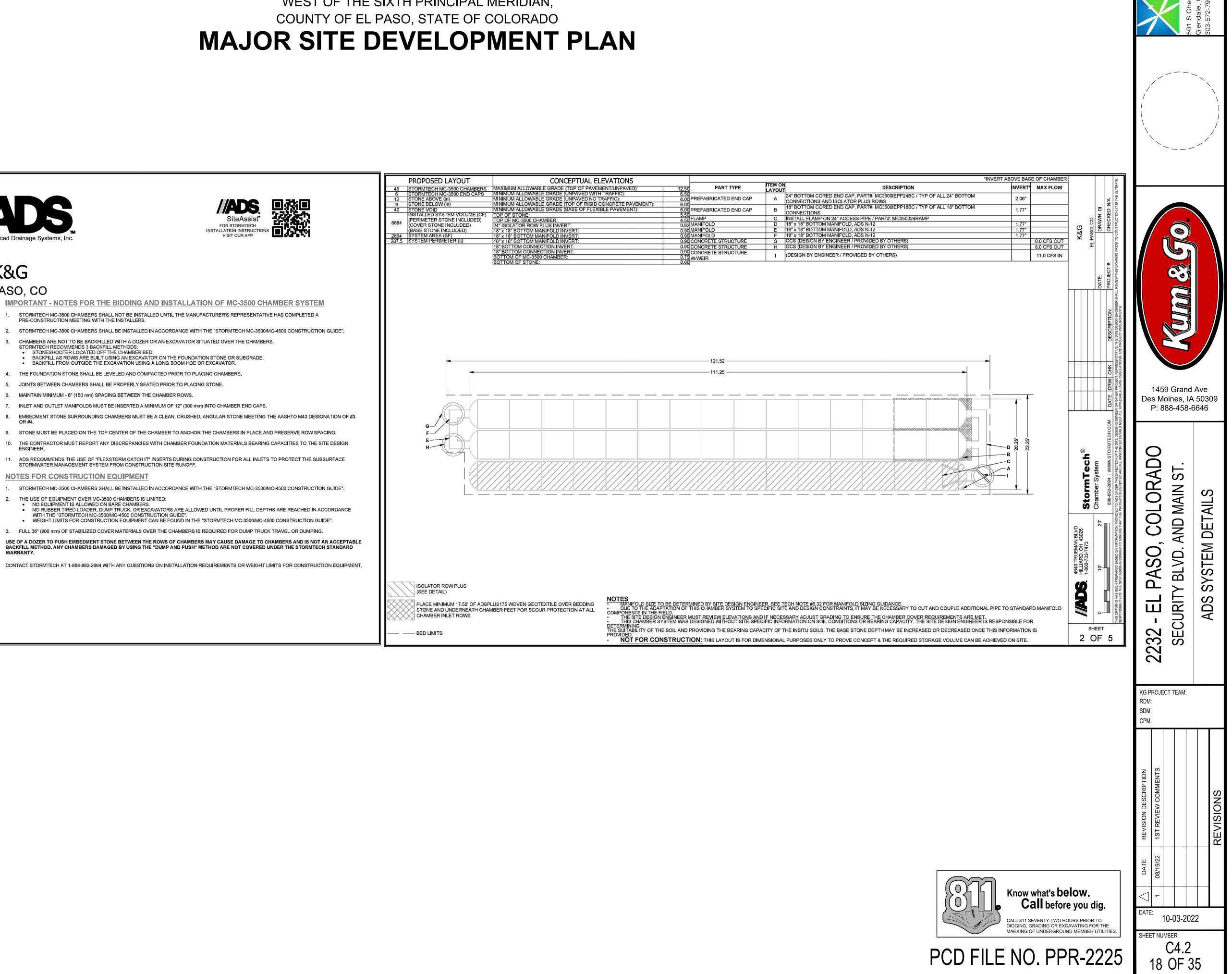
- IMPORTANT NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM
- PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBER STORMTECH RECOMMENDS 3 BACKFILL METHODS: STONESHOOTER LOCATED OFF THE CHAMBER BED. BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE. BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS
- 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS

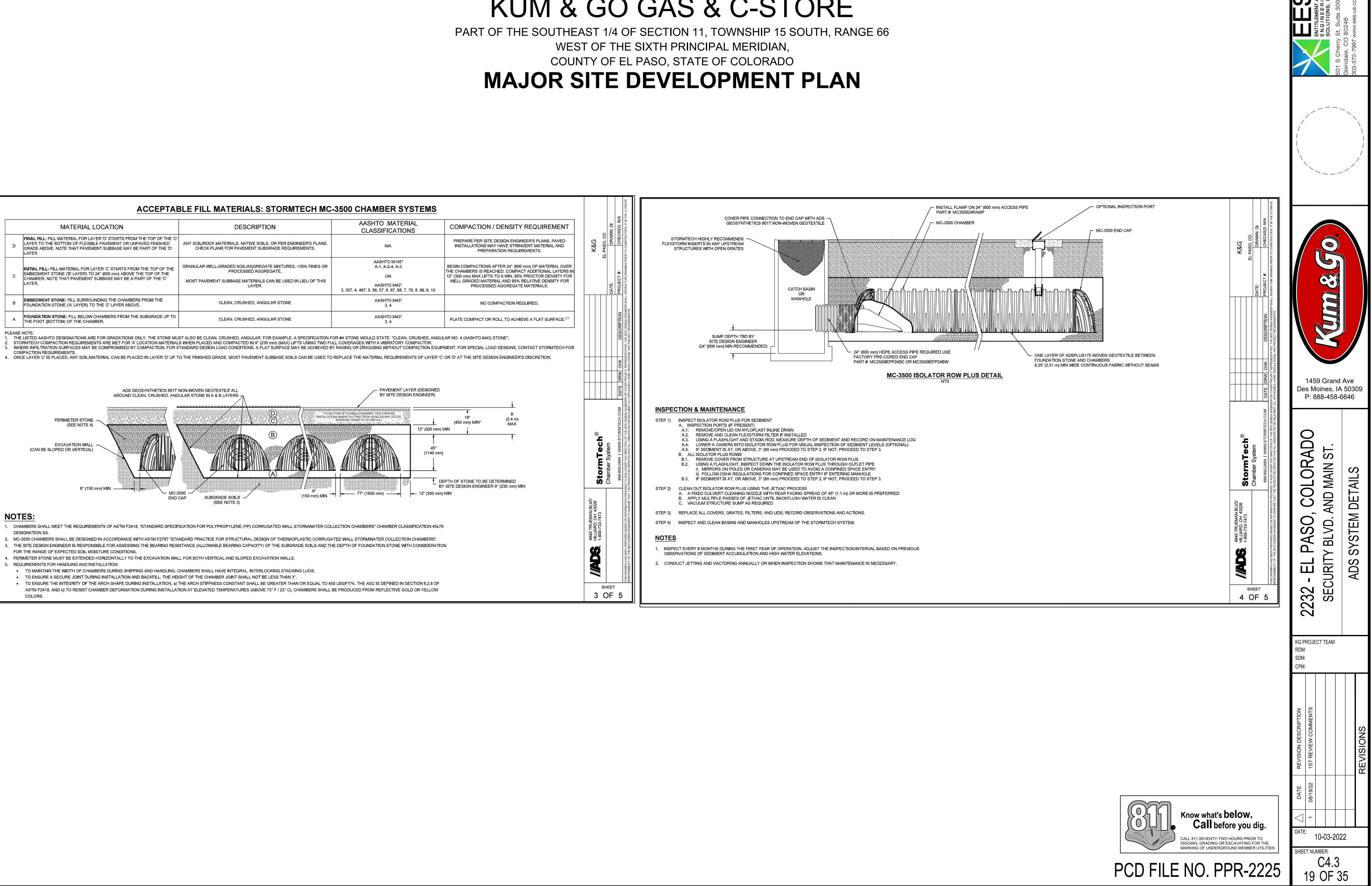
- ENGINEER,
- STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.
- NOTES FOR CONSTRUCTION EQUIPMENT
- THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED: NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS. WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- 3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING. WARRANTY

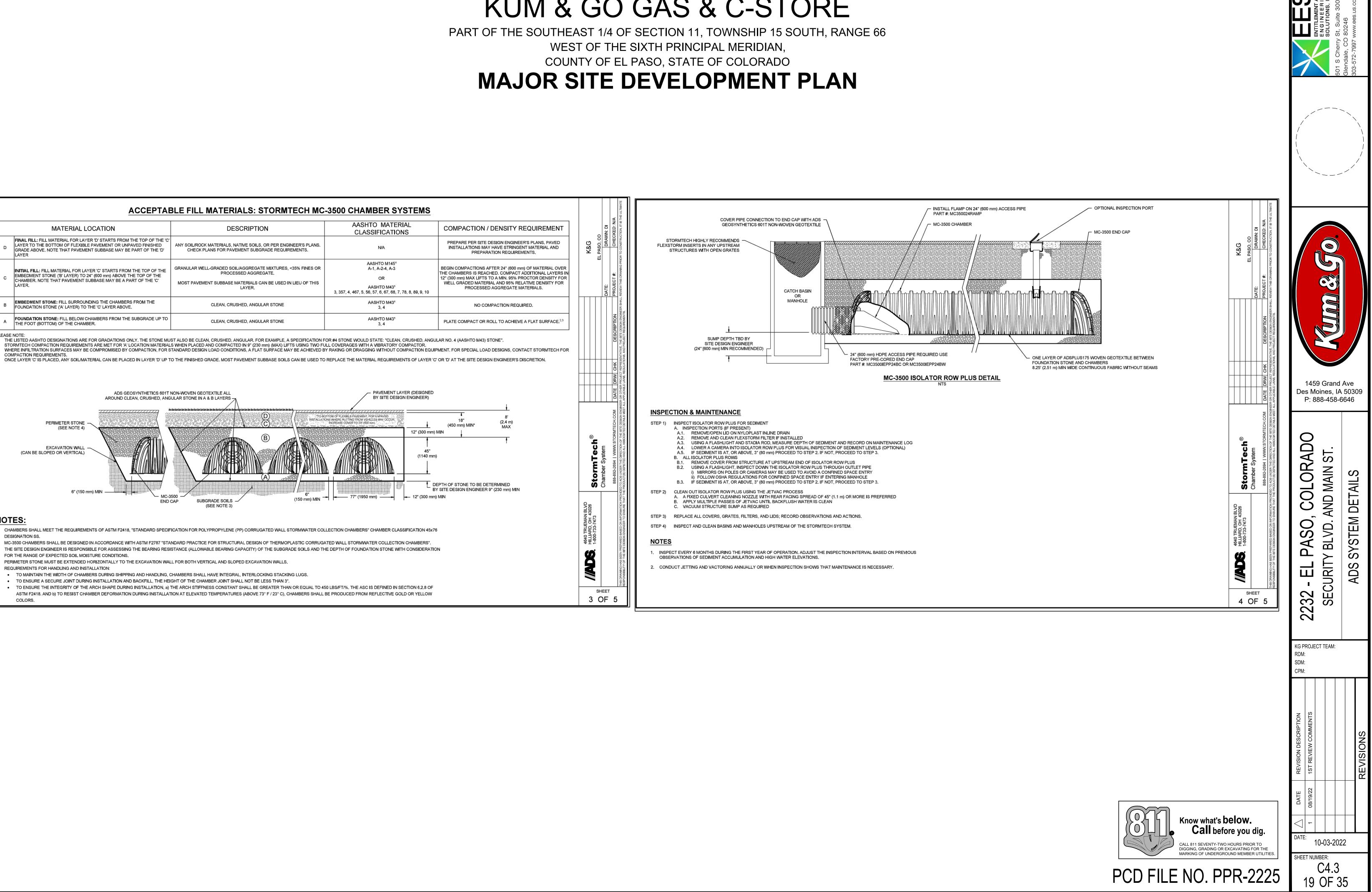
ADS, INC.

KUM & GO GAS & C-STORE

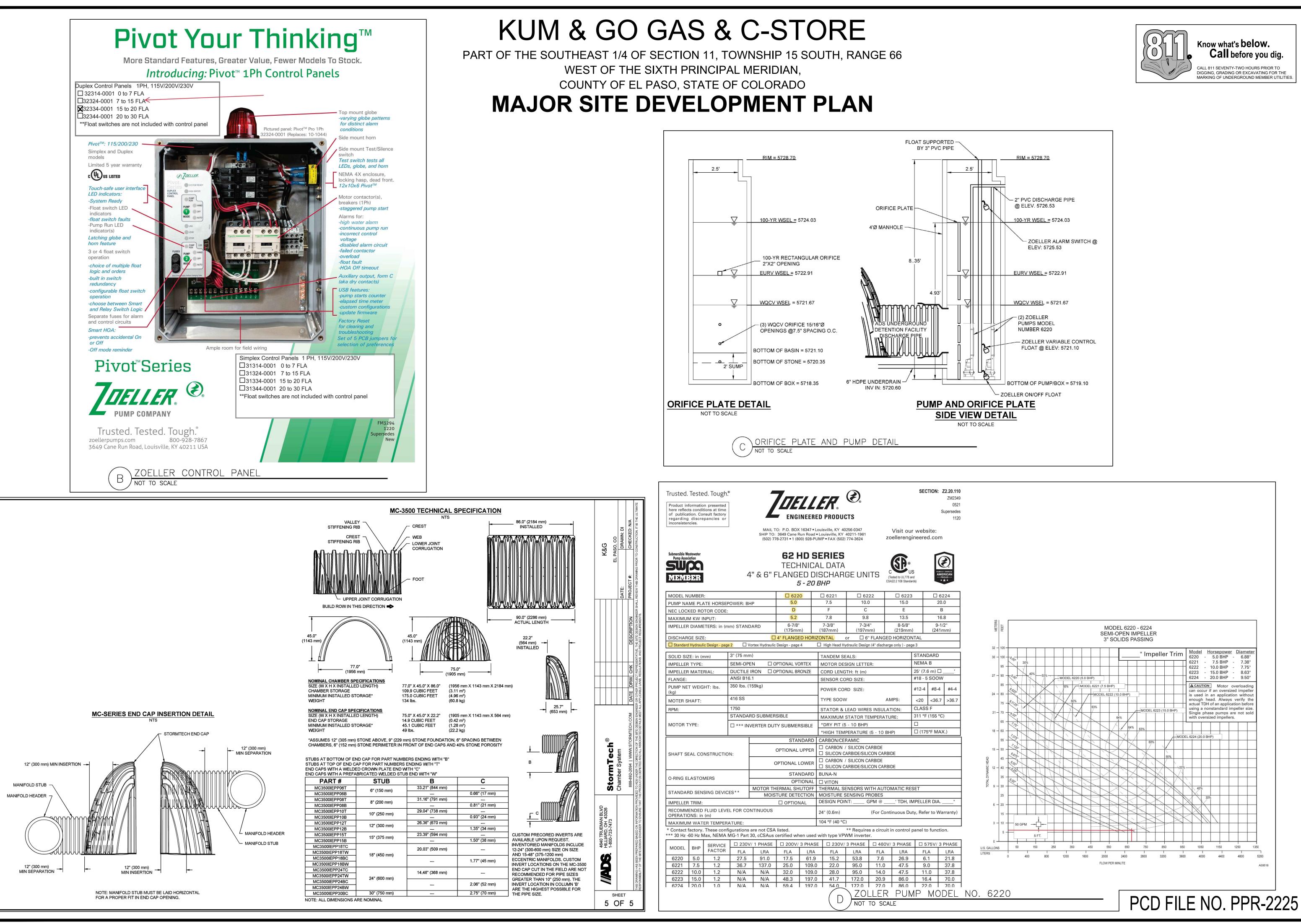
PART OF THE SOUTHEAST 1/4 OF SECTION 11, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE SIXTH PRINCIPAL MERIDIAN,





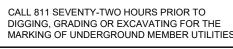


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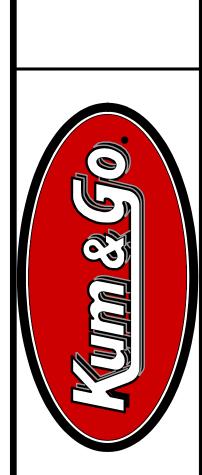




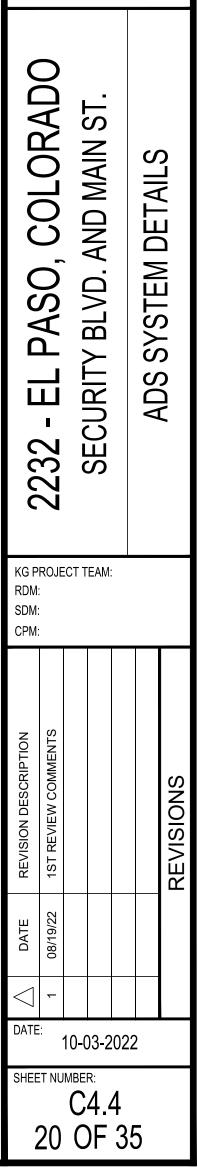
Call before you dig.







1459 Grand Ave Des Moines, IA 50309 P: 888-458-6646



Grading and Erosion Control Plan_V2.pdf Markup Summary

lpackman (2)				
	Subject: File Attachment Page Label: 1 Author: Ipackman Date: 11/14/2022 2:15:48 PM Status: Color: Layer: Space:	Added El Paso County notes to Grading Plan.		
I TOWING-SERIER DATE: DATE: SINCE	Subject: Text Box Page Label: 1 Author: Ipackman Date: 11/14/2022 2:16:01 PM Status: Color: Layer: Space:	Added El Paso County notes to Grading Plan.	Unresolved. Update to include EPC grading and construction notes.	
Glenn Reese - E	EPC Stormwater (5)			
	Subject: SW - Textbox with Arrow Page Label: 4 Author: Glenn Reese - EPC Stormw Date: 11/7/2022 1:36:28 PM Status: Color: ■ Layer: Space:	^{ater} Not a DD. Finish Grade Surface Flow Line. See Grading Plan.	If this is a DD, it needs to outfall at something to control the flow and sediment leaving the site (like a sediment trap, sediment basin, straw bales, etc).	
A new a wint of a transfer of the second sec	Subject: SW - Textbox with Arrow Page Label: 4 Author: Glenn Reese - EPC Stormwater Date: 11/7/2022 1:36:28 PM Status:		It is unclear what this linetype is with the 3 dots. The Legend shows that the DD linetype has 2 dots and arrows. Add this 3 dot linetype to the Legend to revise to match the DD one and add a DD bubble to the plan.	
	Color: ■ Layer: Space:	from BMP Legend.		
Brown of part to test and service and serv	Subject: SW - Textbox with Arrow Page Label: 4 Author: Glenn Reese - EPC Stormw Date: 11/7/2022 1:36:28 PM Status: Color: ■ Layer: Space:	Added 10' for length.	add length of inlet to text callout here.	
	Subject: SW - Textbox with Arrow Page Label: 5 Author: Glenn Reese - EPC Stormw Date: 11/8/2022 7:38:03 AM Status: Color: Layer: Space:	Problem solver outlet to conner existing storm to the east. no outletting at gra	ect with sewer inlet longer	



Subject: SW - Textbox with Arrow Page Label: 5 Author: Glenn Reese - EPC Stormwater Date: 11/9/2022 4:53:02 PM Status:

Color: Layer: Space:

Problem solved. Moved outlet to connect with existing storm sewer inlet to the east. no longer outletting at grade. Is there a cross pan across the driveway (west-east)? Better to route the pipe to the other side of the driveway and turn pipe so it's not perpendicular to the road.

As a preferred alternative - pipe outlet to existing inlet and then a pump wouldn't even be needed. Outlet pipe would need a check valve