EROSION CONTROL AND GRADING PLAN SUPERSTAR CARWASH MEADOWBROOK PKWY COLORADO SPRINGS, CO 80915

PROJECT TEAM

OWNER SUPER STAR CAR WASH 1830 N 95TH AVE, SUITE 106 PHOENIX, AZ, 85037 CONTACT: TIM VARLEY TEL: 801-651-1748 EMAIL: TVARLEY@SSCWAZ.COM

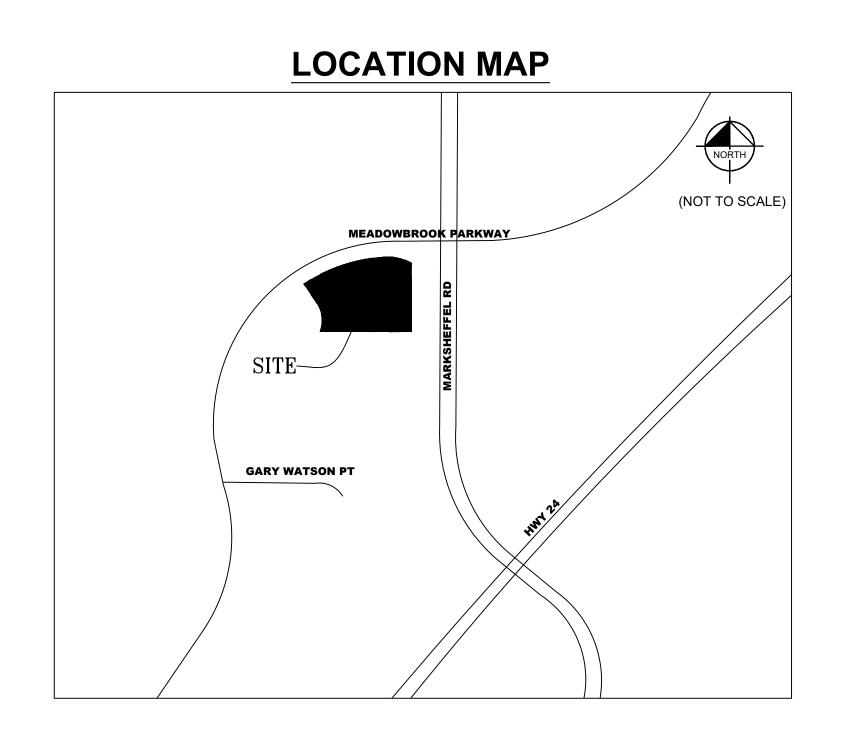
ENGINEER AYRES ASSOCIATES 3665 JFK PARKWAY BLDG. 2 SUITE 100 FORT COLLINS, CO 80525 CONTACT: SCOTT MAIER TEL: (262)-522-4901 EMAIL:MAIERS@AYRESASSOCIATES.COM

LANDSCAPE ARCHITECT AYRES ASSOCIATES 3665 JFK PARKWAY BLDG. 2 SUITE 100 FORT COLLINS, CO 80525 CONTACT: DAVID LAND TEL: (303)-548-2870 EMAIL: LANDD@AYRESASSOCIATES.COM

ARCHITECT **AO ARCHITECTS** 144 N ORANGE STREET ORANGE CA 92866 CONTACT: DUC HUYNH TEL: (714)-639-9860 EMAIL: DUCH@AOARCHITECTS.COM

PROPERTY LEGAL DESCRIPTION

A TRACT OF LAND IN THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER (SE 1/4, SE 1/4) OF SECTION 5, T14S, R65W, OF THE 6TH P.M., EL PASO COUNTY, COLORADO



SHEET LIST TABLE				
SHEET TITLE				
COVER SHEET				
EROSION CONTROL PLAN				
EROSION CONTROL DETAILS				
GRADING PLAN				
RAIN GARDEN				

Design 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 any negligent acts, errors or omissions on my part in preparing this plan.

Scot Maier. PE #

Owner/Developer's Statement:

plans and specifications.

Tim Varley Super Star Car Wash 1830 N 95th Ave, Suite 106 Phoenix, AZ, 85037

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.

County Engineer/ECM Administrator

CONTRACTOR NOTE

CONTRACTOR SHALL KEEP A COPY OF EL PASO COUNTY STAMPED/APPROVED PLANS ON-SITE AT ALL TIMES FOR GENERAL CONTRACTOR AND MUNICIPAL INSPECTOR REFERENCE.

Date

I, the owner/developer have read and will comply with all of the requirements specified in these detailed

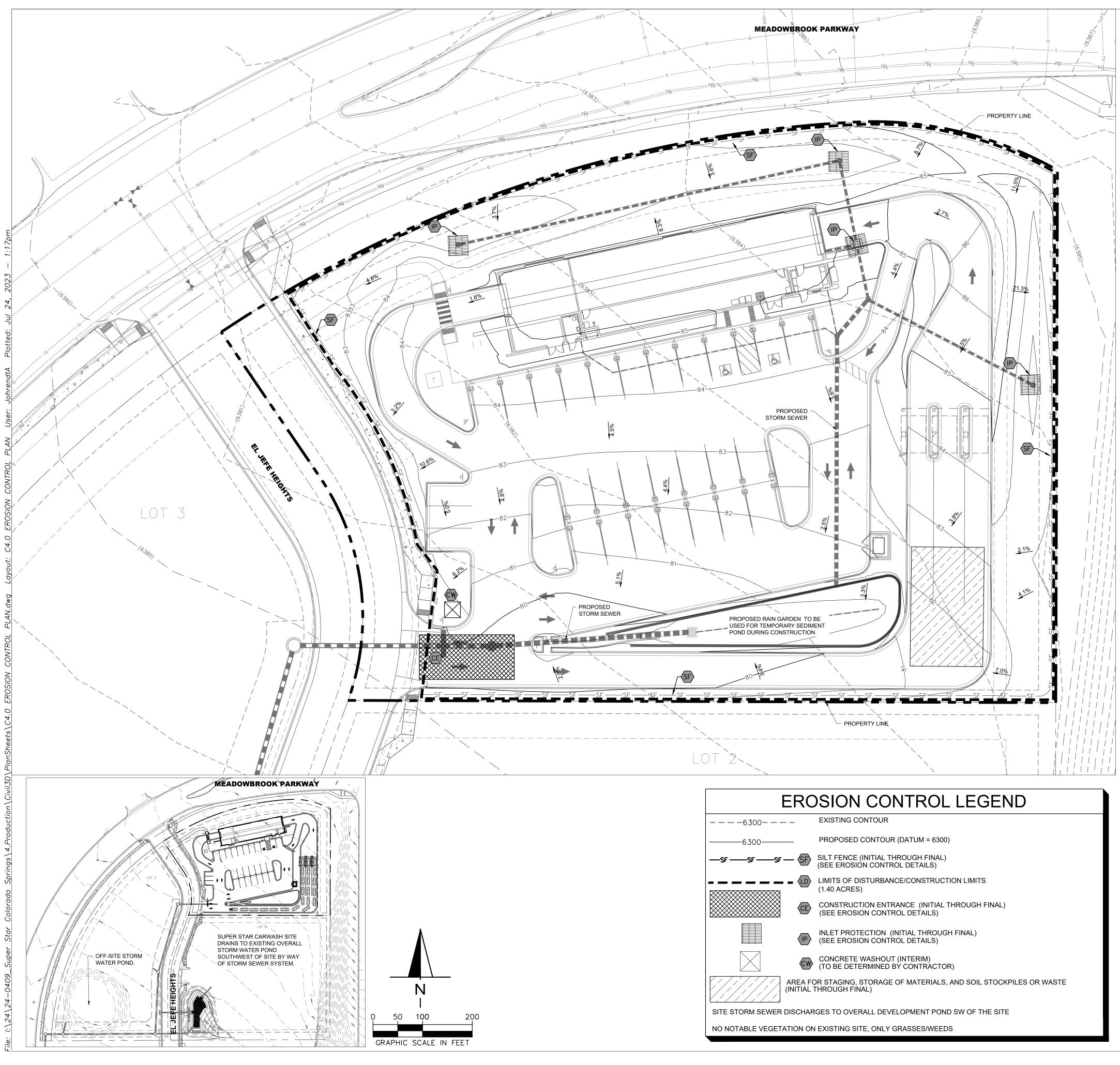
Date

Date





SUPERSTAR CARWASH Revision MEADOWBROOK PKWY MEADOWBROOK PKWY COLORADO SPRING, CO 80915 MEADOWBROK PKWY COVER SHEET MEADOWBROK PKWY	36 BU FC 80 26	65 ILD RT 52 2.5	JFI INC CC 5	K P G 2 DLL	AR 2, S INS	КМ UIT 5, С	(00	I
Τ	DATE							
SUPERSTAR CARWASH MEADOWBROOK PKWY COLORADO SPRING, CO 80915 COVER SHEET	REVISION							
		SUPERSIAR CARWASH			COLORADO SPRING, CO 80915			



OR OFF-SITE WATERS, INCLUDING WETLANDS 2. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. 3. A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY

CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON-SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD 4. ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING

TIME AND PLACE WITH COUNTY STAFF

OF THE DISTURBANCE. 6. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.

7. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.

8. FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE. 9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.

10. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING

SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED. 11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL

BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S) 12. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM

OFF-SITE.

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

BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.

PROPERLY DISPOSED OF IMMEDIATELY RESULT OF SITE DEVELOPMENT

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, RULES, OR REGULATIONS SHALL APPLY.

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 PARTNER ENGINEERING AND SCIENCE, DATE: 7/13/2023 AND SHALL BE CONSIDERED A PART OF THESE PLANS.

29. THERE ARE NO DEDICATED ASPHALT OR CONCRETE PLANS DEDICATED FOR THIS SITE.

30. AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION. FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE. THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT WATER QUALITY CONTROL DIVISION WOCD - PERMITS 4300 CHERRY CREEK DRIVE SOUTH DENVER, CO 80246-1530 ATTN: PERMITS UNIT

Design Engineer's S

This grading and erosion control supervision and is correct to the b has been prepared according to grading and erosion control plan caused by any negligent acts, er this plan.

[SCOTT MAIER, P.E. #____

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CONSTRUCT SILT FENCE ALL DISTURBED AREAS S STRAW BALE BARRIER IN ALL EXISTING INLETS UPO STRAW BALE BARRIERS ALL INLETS UPON COMPL ALL TEMPORARY EROSIO

PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED.

EROSION CONTROL NOTES

1. 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 AYRES

ASSOCIATES

3665 JFK PARKWAY

FORT COLLINS, CO

262.522.4901

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www.AyresAssociates.com

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5. CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION

THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT

13. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER

WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY

18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND

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

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.

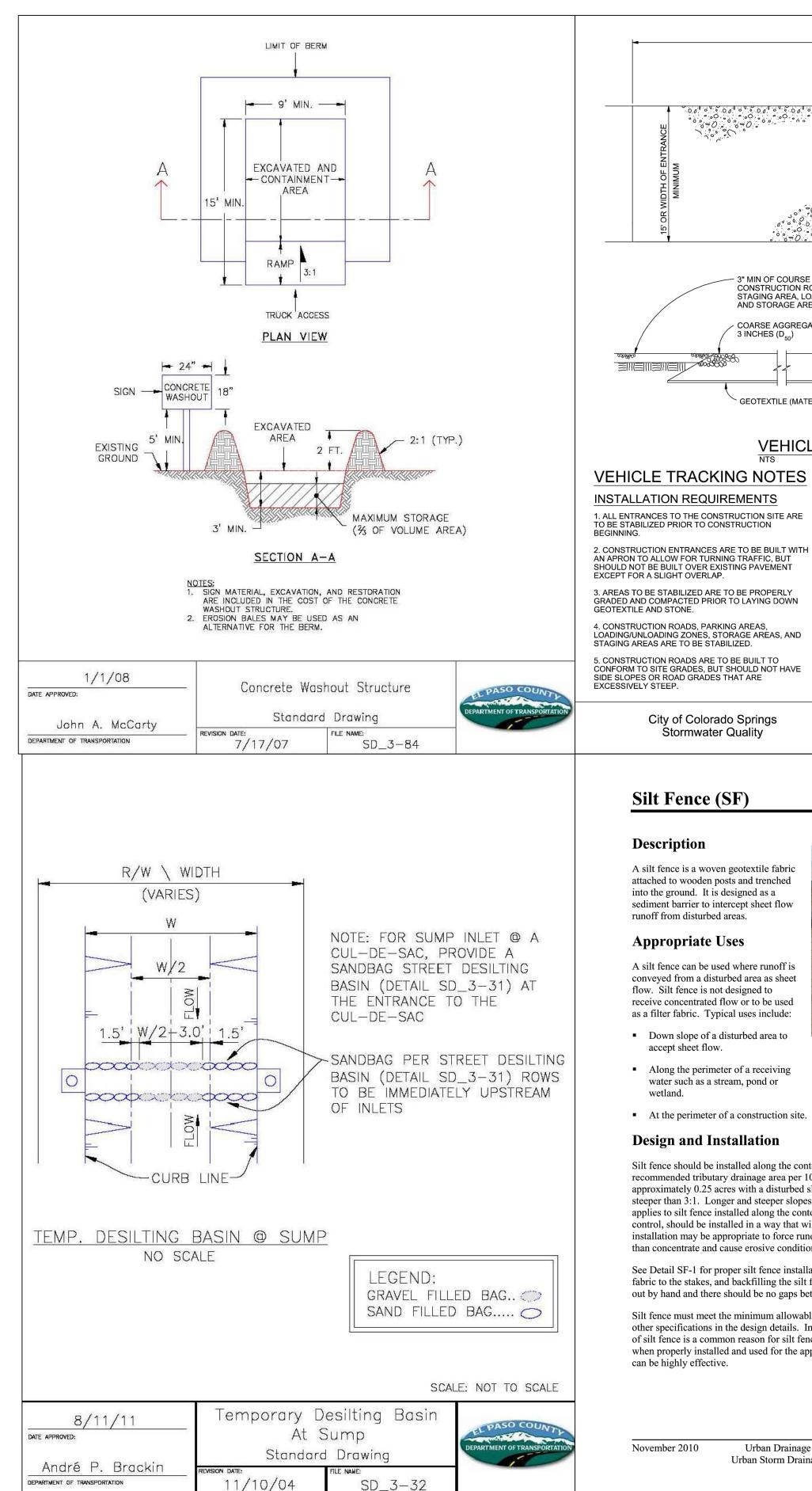
21. NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ON-SITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED

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.

		SUPERSTA MEADOW COLORADO SI ROSION (
	SITE AREA	PE ME DLOR SSI
	LOT AREA = : 1.48 ACRES	
	DISTURBED AREA = 1.38 ACRES	
itatement: I plan was prepared under my direction and best of my knowledge and belief. Said plan the criteria established by the County for as. I accept responsibility for any liability	Owner/Developer's Statement: I, the owner/developer have read and will comply with all of the requirements of the Grading and Erosion Control Plan.	
Trors or omissions on my part in preparing	TIM VARLEY Date SUPER STAR CAR WASH 1830 N 95TH AVE, SUITE 106 PHOENIX, AZ, 85037	
_, _, _,	\	Drawn By: AJJ Checked By: SEM
CE OF ACTIVIT	TIES	Date: 06/23/2023 Project No. 24-0409
HALL BE STABILIZED AND VEGETA LET PROTECTION SHALL BE CONS		Sheet Number
DN COMPLETION OF CONSTRUCTION SHALL BE REPLACED WITH GRAVEI ETION OF PAVING IN CONTROL MEASURES SHALL BE	DN. L FILTERS AT	40 E2.0

GRAPHIC	SCALE	IN	FFFT	
	SOMEL			



COARSE AGGREGATE

3 INCHES (D₅₀)

3. AREAS TO BE STABILIZED ARE TO BE PROPERLY GRADED AND COMPACTED PRIOR TO LAYING DOWN

4. CONSTRUCTION ROADS, PARKING AREAS, LOADING/UNLOADING ZONES, STORAGE AREAS, AND STAGING AREAS ARE TO BE STABILIZED.

5. CONSTRUCTION ROADS ARE TO BE BUILT TO CONFORM TO SITE GRADES, BUT SHOULD NOT HAVE SIDE SLOPES OR ROAD GRADES THAT ARE

> City of Colorado Springs Stormwater Quality

Silt Fence (SF)

A silt fence is a woven geotextile fabric into the ground. It is designed as a sediment barrier to intercept sheet flow runoff from disturbed areas.

Appropriate Uses

A silt fence can be used where runoff is conveyed from a disturbed area as sheet flow. Silt fence is not designed to receive concentrated flow or to be used as a filter fabric. Typical uses include:

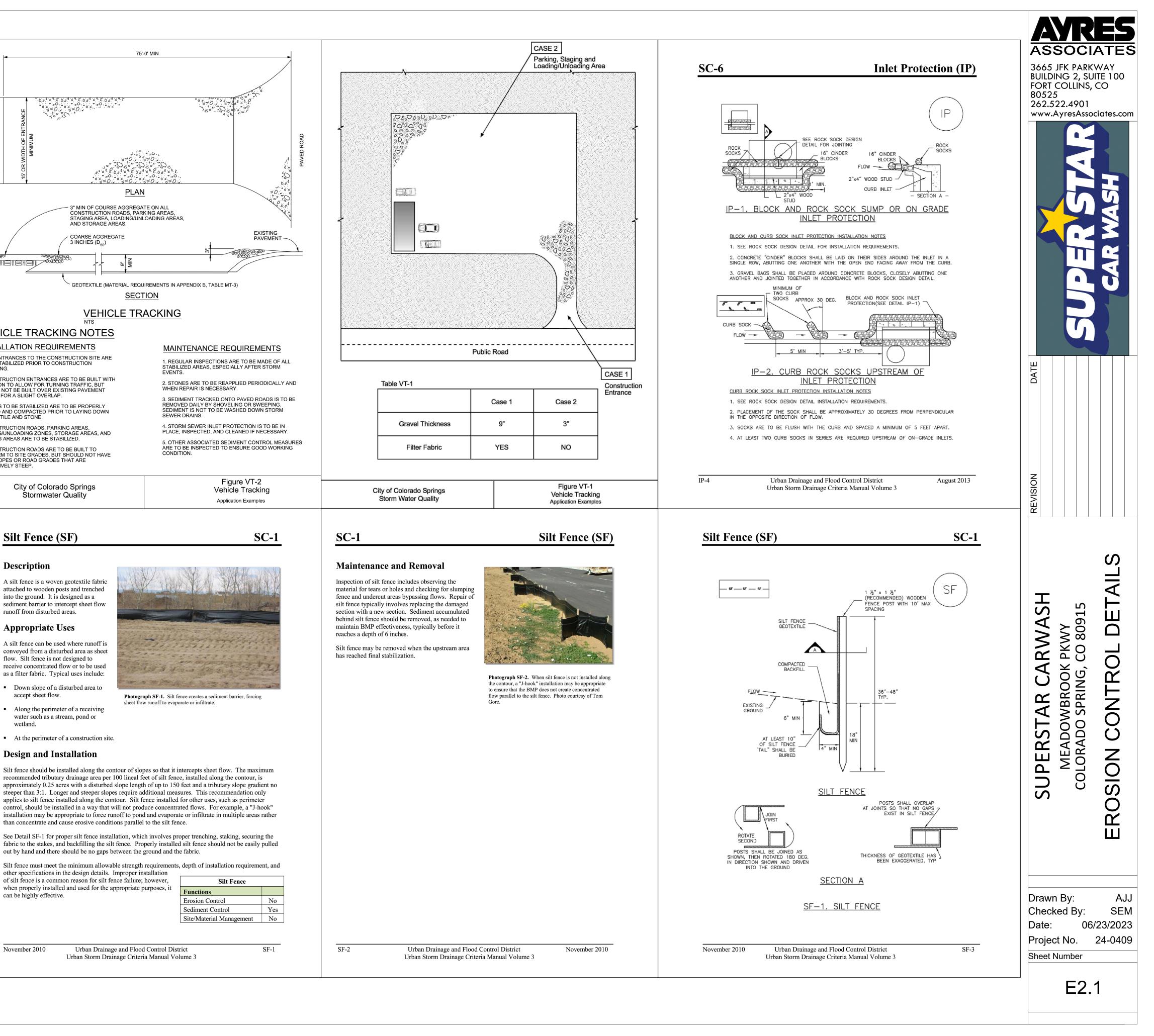
- Down slope of a disturbed area to
- Along the perimeter of a receiving water such as a stream, pond or
- At the perimeter of a construction site.

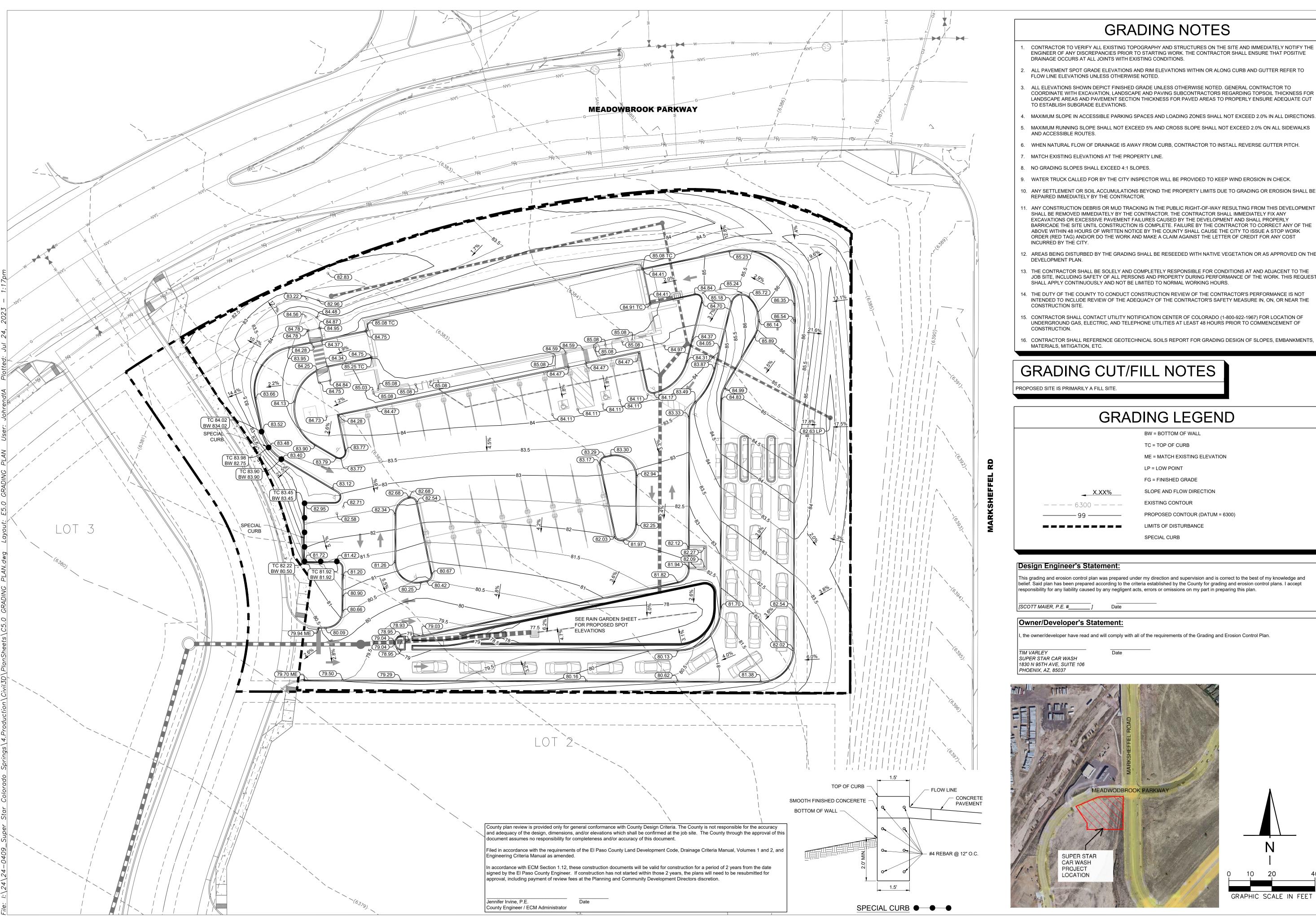
Design and Installation

than concentrate and cause erosive conditions parallel to the silt fence.

out by hand and there should be no gaps between the ground and the fabric.

other specifications in the design details. Improper installation of silt fence is a common reason for silt fence failure; however, when properly installed and used for the appropriate purposes, it





GRADING NOTES

CONTRACTOR TO VERIFY ALL EXISTING TOPOGRAPHY AND STRUCTURES ON THE SITE AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK. THE CONTRACTOR SHALL ENSURE THAT POSITIVE

ALL PAVEMENT SPOT GRADE ELEVATIONS AND RIM ELEVATIONS WITHIN OR ALONG CURB AND GUTTER REFER TO

ALL ELEVATIONS SHOWN DEPICT FINISHED GRADE UNLESS OTHERWISE NOTED. GENERAL CONTRACTOR TO COORDINATE WITH EXCAVATION, LANDSCAPE AND PAVING SUBCONTRACTORS REGARDING TOPSOIL THICKNESS FOR LANDSCAPE AREAS AND PAVEMENT SECTION THICKNESS FOR PAVED AREAS TO PROPERLY ENSURE ADEQUATE CUT

. MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL NOT EXCEED 2.0% IN ALL DIRECTIONS. MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2.0% ON ALL SIDEWALKS

6. WHEN NATURAL FLOW OF DRAINAGE IS AWAY FROM CURB, CONTRACTOR TO INSTALL REVERSE GUTTER PITCH.

9. WATER TRUCK CALLED FOR BY THE CITY INSPECTOR WILL BE PROVIDED TO KEEP WIND EROSION IN CHECK.

SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY FIX ANY EXCAVATIONS OR EXCESSIVE PAVEMENT FAILURES CAUSED BY THE DEVELOPMENT AND SHALL PROPERLY BARRICADE THE SITE UNTIL CONSTRUCTION IS COMPLETE. FAILURE BY THE CONTRACTOR TO CORRECT ANY OF THE ABOVE WITHIN 48 HOURS OF WRITTEN NOTICE BY THE COUNTY SHALL CAUSE THE CITY TO ISSUE A STOP WORK ORDER (RED TAG) AND/OR DO THE WORK AND MAKE A CLAIM AGAINST THE LETTER OF CREDIT FOR ANY COST

12. AREAS BEING DISTURBED BY THE GRADING SHALL BE RESEEDED WITH NATIVE VEGETATION OR AS APPROVED ON THE

13. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUEST

14. THE DUTY OF THE COUNTY TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURE IN, ON, OR NEAR THE

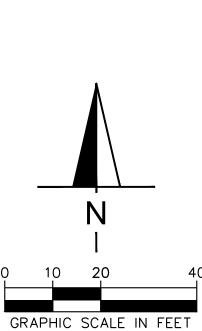
15. CONTRACTOR SHALL CONTACT UTILITY NOTIFICATION CENTER OF COLORADO (1-800-922-1967) FOR LOCATION OF UNDERGROUND GAS, ELECTRIC, AND TELEPHONE UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF

16. CONTRACTOR SHALL REFERENCE GEOTECHNICAL SOILS REPORT FOR GRADING DESIGN OF SLOPES, EMBANKMENTS,

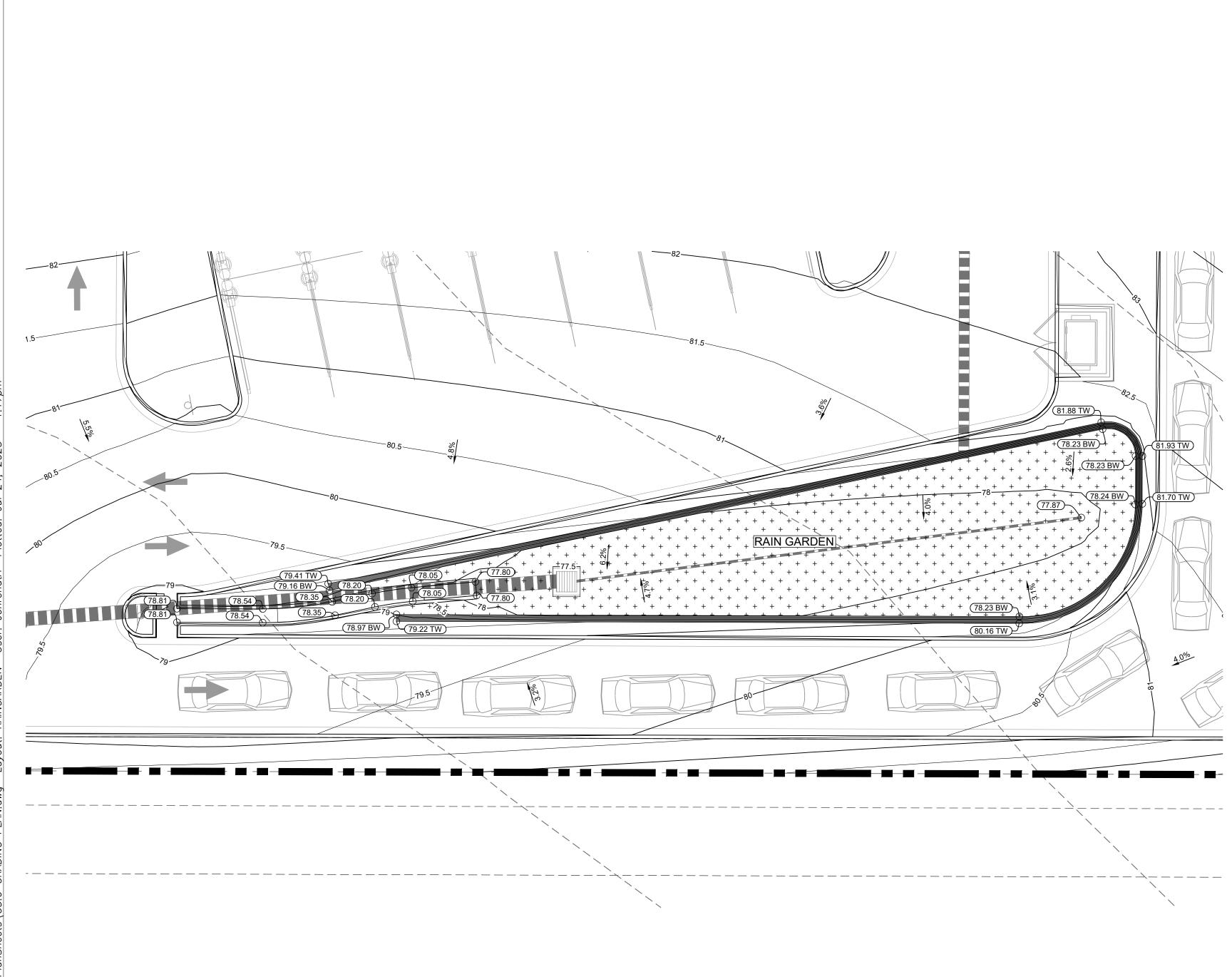
GRADING LEGEND

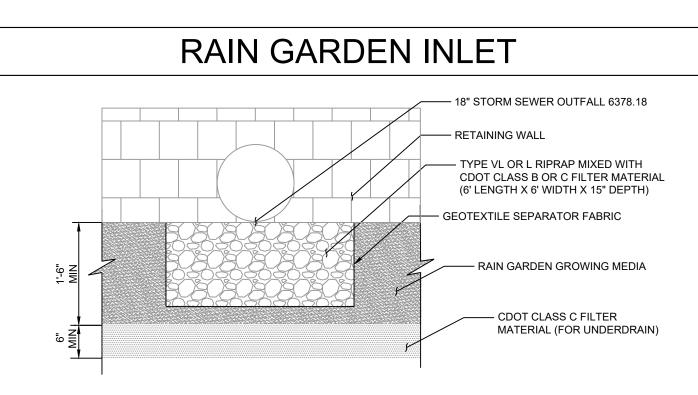
	BW = BOTTOM OF WALL
	TC = TOP OF CURB
	ME = MATCH EXISTING ELEVATION
	LP = LOW POINT
	FG = FINISHED GRADE
X.XX%	SLOPE AND FLOW DIRECTION
6300	EXISTING CONTOUR
- 99	PROPOSED CONTOUR (DATUM = 6300)
	LIMITS OF DISTURBANCE

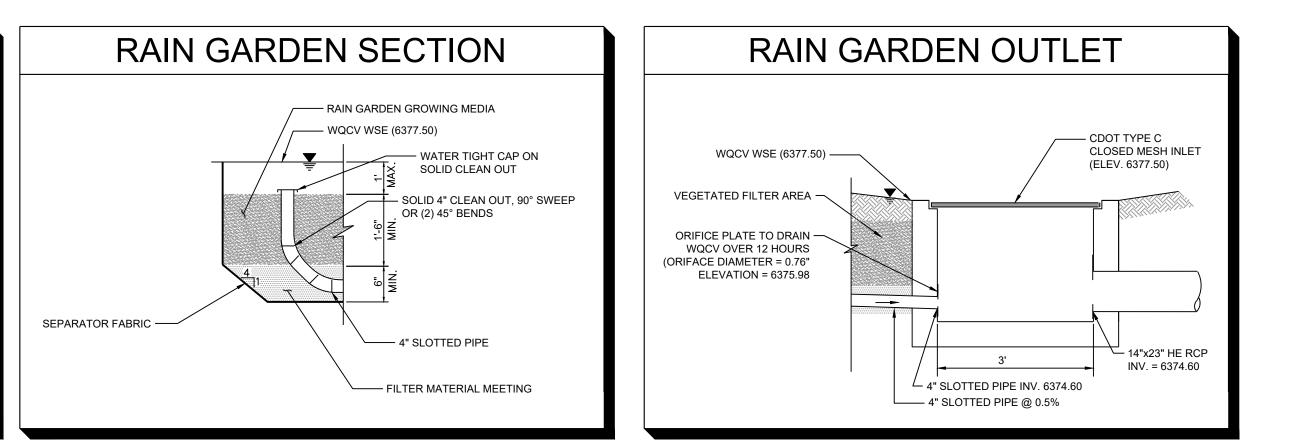
This grading and erosion control plan was prepared under my direction and supervision and is correct to the best of my knowledge and belief. Said plan has been prepared according to the criteria established by the County for grading and erosion control plans. I accept



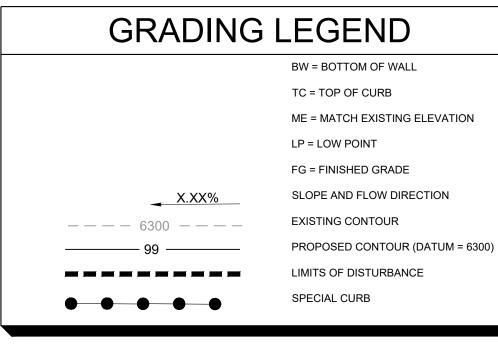
AYRES ASSOCIATES 3665 JFK PARKWAY BUILDING 2, SUITE 100 FORT COLLINS, CO 80525 262.522.4901 www.AyresAssociates.com Ζ SH . РКWY СО 80915 Ш C RWA AINA 4 **NBROOK** SPRING, $\mathbf{\Sigma}$ Ń \bigcirc \square 2 Z **N** MEADOV COLORADO \vdash S A \mathbf{r} РЕ C ADIN S C R AJJ Drawn By: Checked By: SEM 06/23/2023 Date: 24-0409 Project No. Sheet Number E3.0







Material		Specification			Submittals	Testing	Notes
Bioretention Growing Media (soil + organics)	Bioretention soil	Particle Size Distribution 80-90% sand (0.05-2.0 mm diameter) 3-17% silt (0.002-0.5 mm diameter) 3-17% clay (<0.002 diameter) Chemical attribute and nutrient analysis: pH 6.8 - 7.5 organic matter > 15% nitrogen < 15 ppm phosphorus < 15 pp, salinity < 6 mmhoslom			Particle size distribution and nutrient analysis required.		Percentages are in weight
	Bioretention organics	3 to 5% shredded mulch (by weight of growing media)					bioretention soil required. Aged 6 months (minimum).
Landscape mulch		Shredded hardwood					Aged 6 months (minimum). No weed fabric allowed.
Underdrain aggregate	CDOT filter material (Class B or C as specified)	37.5 mm (1.5") 19.0 mm (0.75") 4.75 mm (No. 4) 1.18 um (No. 16) 300 um (No. 50) 150 um (No. 100)	Max Percent Class B 100 20-60 30-Oct 0-10 0-3	Passing Square Mesh Class C 100 60-100 10-30 0-10 0-3	Particle Size Distribution Required		
Underdrai	in Pipe		width (inches)	Minimum open area (per foot) 1.90 in ² 1.98 in ²	Required	Pipe must conform to requirements of ASTM designation F949. There shall be no evidence of splitting cracking or breaking when the pipe is tested per ASTM test method D2412 in accordance with F949 section 7.5 and ASTM F794 section 8.5.	Contech A-2000 slotted pipe (or equa
Impermeab	ole Liner	Thickness % Tolerance Tensile Strength, kNm (lb/in) Modulus at 100% elongation, kN/m Ultimate elongation % Tear Resistance N(lbs)	Thickness 0.76 mm (30 mil) +/- 5 12.25 (70) 55.25 (30) 350 38 (8.5) -29 (-20) 0.7 1(max)	Test Method ASTM D 1593 ASTM D8 82, Method E ASTM D8 82, Method E ASTM D8 82, Method A ASTM D 1004 ASTM D 1790 ASTM D8 82, Method A N/A	Required	Thermal welding required for fully lined facilities (no a cutain). Leaktesing in the field required.	



/ = BOTTOM OF WALL
= TOP OF CURB
= MATCH EXISTING ELEVATION
= LOW POINT
= FINISHED GRADE
OPE AND FLOW DIRECTION
ISTING CONTOUR
OPOSED CONTOUR (DATUM = 6300)
IITS OF DISTURBANCE
ECIAL CURB

SEPARATOR FABRIC							
Property	Cla Elongation <50% ²	ss B Elongation > 50% ²	Test Method				
Grab Strength, N (lbs.)	800 (180)		ASTM D 4632				
Puncture Resistance, N (lbs.)	310 (70)		ASTM D 4833				
Trapezoidal Tear Strength , N (lbs.)	310 (70)		ASTM D 4533				
Apparent Opening Size, mm (US Sieve Size)	AOS < 0.3 mm (US	Sieve Size No. 50)	ASTM D 4751				
Permittivity, sec ⁻¹	0.02 default value, r than tha	ASTM D 4491					
Permeability cm/sec	k fabric > k soil for all classes		ASTM D 4491				
Ultraviolet Degradation at 500 hours	50% strength reta	ASTM D 4355					

RAIN	GARDEN	SEED	MIX
X Y			

Common Name	Scientific Name	Variety	PLS ²	Ounces		
			lbs per	per Acre		
			Acre			
Sand Bluestem	Andropogon hallii	Garden	3.5			
Sidecoats grama	Bouteloua curtipendula	Butte	3			
Prairie sandreed	Calamovilfa longifolia	Goshen	3			
Indian ricegrass	Oryzopsis hymenoides	Paloma	3			
Switchgrass	Panicum virgatum	Blackwell	4			
Western Wheatgrass	Pascopyrum smithii	Ariba	3			
Little Bluestem	Schizachyrium scoparium	Patura	3			
Alkali Sacaton	Sporobolus airoides		3			
Sand Dropseed	Sporobolus cryptandrus		3			
Pasture Sage ¹	Artemisia frigida			2		
Blue Aster ¹	Aster laevis			4		
Blanket Flower ¹	Gaillardia aristata			8		
Prairie Coneflower ¹	Ratibida columnifera			4		
Purple Prairieclover ¹	Dalea (Petalostemum) purpurea	l		4		
Sub-Totals			27.5	22		
Total labs per acre:			2	8.9		
¹ Wildflower seed (optional) for a more diverse and natural look						
² PLS = Pure Live Seed						

