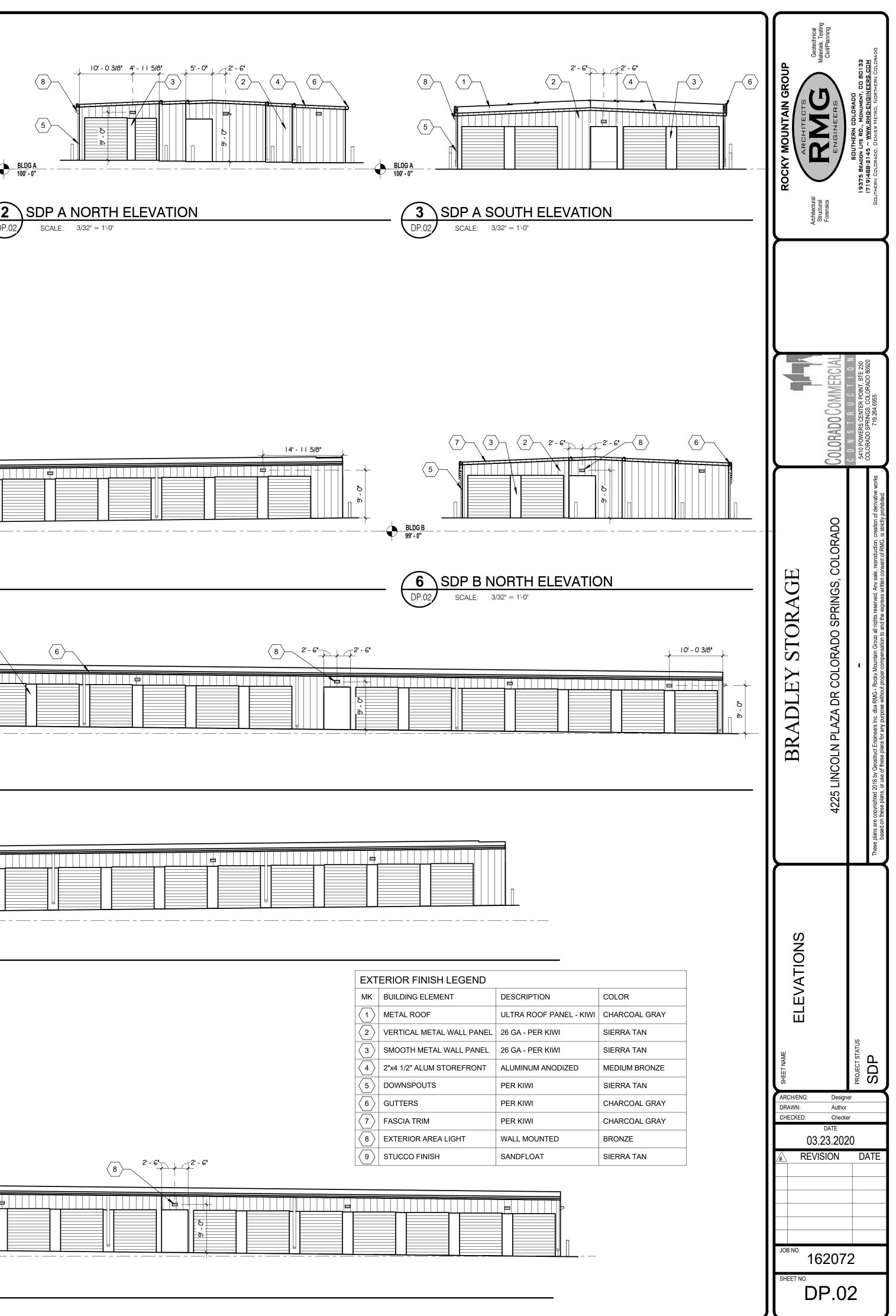
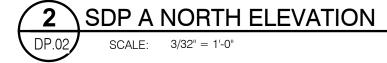
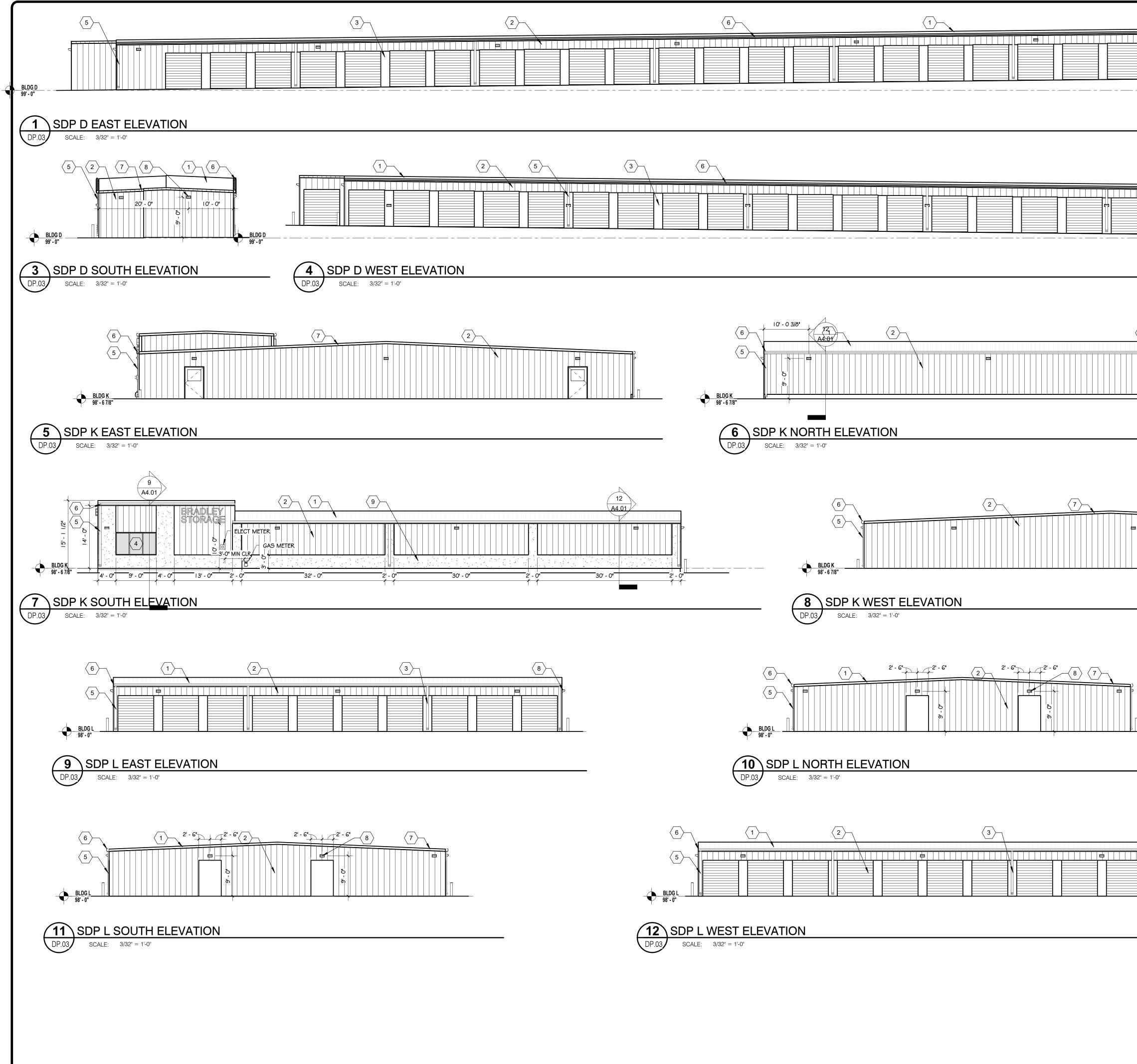


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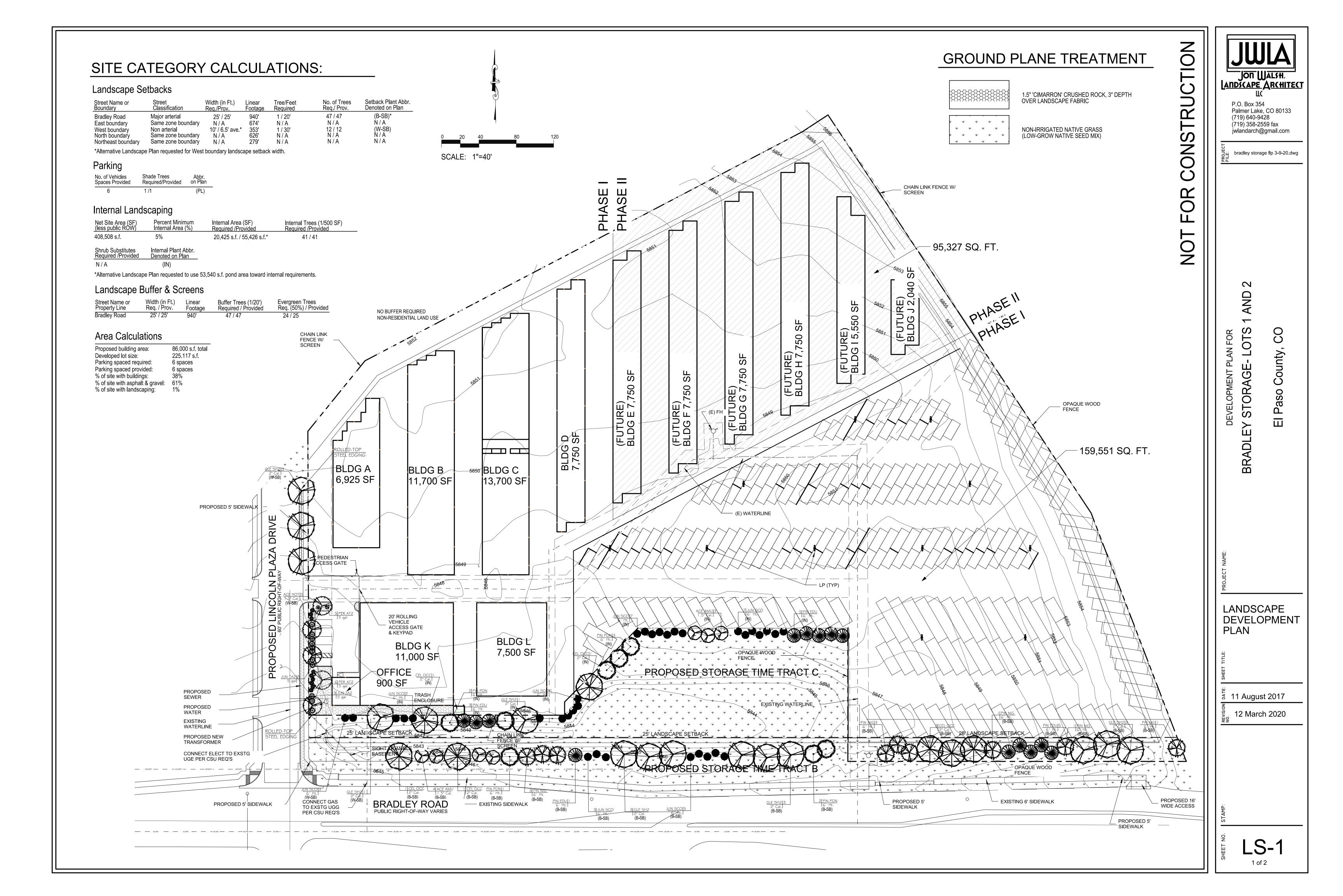


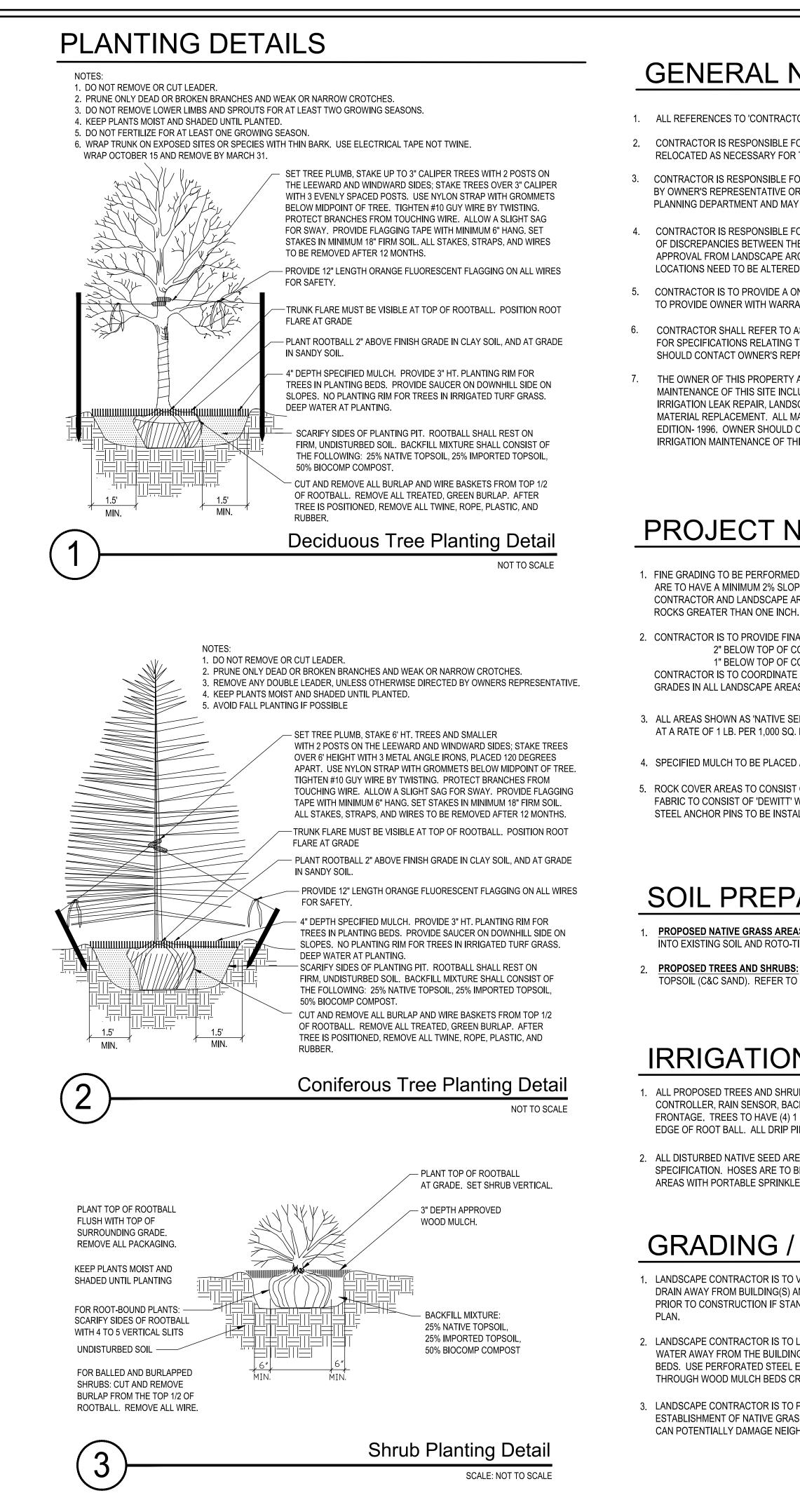


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10' - 1 3/4" 8 10' - 1 3/4"	$10^{\prime} - 0^{\prime\prime} + 12^{\prime} - 0^{\prime} + 12^{\prime} - 0^{\prime} + 12^{\prime} - 0^{\prime} + 12^{\prime} - 0^{\prime$				DLORADO COMMER	5410 POWERS CENTER POINT, STE 230 5410 POWERS CENTER POINT, STE 230 COLORADO SPRINGS, COLORADO 80920 COLORADO SPRINGS, COLORADO 80920
	Image: state			BRADLEY STORAGE	4225 LINCOLN PLAZA DR COLORADO SPRINGS, COLORADO	These plans are copyrighted 2018 by Geostruct Engineers Inc. dba RMG - Rocky Mountain Group all rights reserved. Any sale, reproduction, creation of derivative works besed on these plans are copyrighted 2018 by Geostruct Engineers Inc. dba RMG - Rocky Mountain Group all rights reserved. Any sale, reproduction, creation of derivative works
	EXTERIOR FINISH LEGEND MK BUILDING ELEMENT 1 METAL ROOF 2 VERTICAL METAL WALL PANEL 3 SMOOTH METAL WALL PANEL 4 2"x4 1/2" ALUM STOREFRONT 5 DOWNSPOUTS 6 GUTTERS 7 FASCIA TRIM 8 EXTERIOR AREA LIGHT 9 STUCCO FINISH	DESCRIPTION ULTRA ROOF PANEL - KIWI 26 GA - PER KIWI 26 GA - PER KIWI 26 GA - PER KIWI ALUMINUM ANODIZED PER KIWI PER KIWI PER KIWI SANDFLOAT	COLOR CHARCOAL GRAY SIERRA TAN SIERRA TAN SIERRA TAN MEDIUM BRONZE SIERRA TAN CHARCOAL GRAY BRONZE SIERRA TAN SIERRA TAN	<u>#</u> REV JOB NO. SHEET NO.	Design Author Checke 23.202 SION	Lonect status





GENERAL NOTES

ALL REFERENCES TO 'CONTRACTOR' REFER TO LANDSCAPE CONTRACTOR, UNLESS OTHERWISE NOTED.

2. CONTRACTOR IS RESPONSIBLE FOR GETTING ALL UTILITY LOCATES 1-800-922-1987 PRIOR TO STARTING ANY WORK ON SITE AND ALSO HAVING UTILITIES RELOCATED AS NECESSARY FOR THE DURATION OF CONSTRUCTION.

3. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL LANDSCAPE SHOWN ON THIS PLAN. ANY DEFICIENCIES OR DEVIATIONS FROM THIS PLAN ARE TO BE APPROVED BY OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT. ANY CHANGES FROM THE APPROVED PLANS MAY REQUIRE APPROVAL FROM THE EL PASO COUNTY PLANNING DEPARTMENT AND MAY DELAY COMPLETION OF PROJECT.

4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITIES OF MATERIALS NEEDED TO COMPLETE THIS PLAN IN THE FIELD. NOTIFY OWNER'S REPRESENTATIVE OF DISCREPANCIES BETWEEN THE DRAWINGS AND CONDITIONS IN THE FIELD. SUBSTITUTIONS OF LANDSCAPE MATERIALS ARE NOT ALLOWED WITHOUT APPROVAL FROM LANDSCAPE ARCHITECT GIVEN PRIOR TO INSTALLATION. NOTIFY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION IF LANDSCAPE MATERIAL LOCATIONS NEED TO BE ALTERED DUE TO ON-SITE CONDITIONS.

CONTRACTOR IS TO PROVIDE A ONE YEAR WARRANTY ON ALL PLANT MATERIALS, IRRIGATION COMPONENTS, NATIVE GRASS, AND WORKMANSHIP. CONTRACTOR IS TO PROVIDE OWNER WITH WARRANTY CONDITIONS AND COMMENCE WARRANTY PERIOD UPON FINAL ACCEPTANCE OF LANDSCAPE INSTALLATION.

CONTRACTOR SHALL REFER TO ASSOCIATED LANDSCAPE CONTRACTORS OF COLORADO SPECIFICATIONS HANDBOOK, 1996 (OR MORE RECENT) REVISED EDITION FOR SPECIFICATIONS RELATING TO LANDSCAPE AND IRRIGATION CONSTRUCTION ON THIS SITE. REFER TO SECTIONS 02810, 02930, 02940, AND 02950. CONTRACTOR SHOULD CONTACT OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT FOR CLARIFICATIONS OR QUESTIONS.

7. THE OWNER OF THIS PROPERTY AND ANY FUTURE OWNERS SHALL BE RESPONSIBLE FOR THE PROPER LANDSCAPE AND IRRIGATION MAINTENANCE OF THIS SITE MAINTENANCE OF THIS SITE INCLUDES, BUT IS NOT LIMITED TO, IRRIGATION INSPECTIONS AND ADJUSTMENTS, IRRIGATION SYSTEM SHUT DOWN AND START UP, IRRIGATION LEAK REPAIR, LANDSCAPE WEEDING, MOWING, SEEDING, FERTILIZATION, WOOD MULCH AND ROCK COVER REPLACEMENT, PRUNING, AND PLANT MATERIAL REPLACEMENT. ALL MAINTENANCE SHOULD BE IN ACCORDANCE WITH STANDARDS SPECIFIED WITHIN THE "ALCC SPECIFICATIONS HANDBOOK" REVISED EDITION- 1996. OWNER SHOULD CONTACT LANDSCAPE CONTRACTOR OR LANDSCAPE ARCHITECT REGARDING ANY QUESTIONS RELATING TO THE LANDSCAPE OR IRRIGATION MAINTENANCE OF THIS SITE.

PROJECT NOTES

1. FINE GRADING TO BE PERFORMED BY LANDSCAPE CONTRACTOR TO REFLECT FINISHED GRADES SHOWN ON THE PROJECT GRADING PLANS. ALL FINISHED GRADES ARE TO HAVE A MINIMUM 2% SLOPE. CONTRACTOR IS TO REPORT POOR DRAINAGE CONDITIONS OR ANY GRADES IN LANDSCAPE AREAS LESS THAN 2% TO GENERAL CONTRACTOR AND LANDSCAPE ARCHITECT PRIOR TO LANDSCAPE CONSTRUCTION WORK. FINISHED GRADES SHALL BE FREE OF WEEDS AND FREE OF DEBRIS AND

- 2. CONTRACTOR IS TO PROVIDE FINAL GRADES ADJACENT TO HARDSCAPE SURFACES AT THE FOLLOWING SPECIFICATIONS:
 - 2" BELOW TOP OF CONCRETE OR RETAINING WALLS FOR ALL MULCH AND ROCK COVER BEDS.
 - 1" BELOW TOP OF CONCRETE OR RETAINING WALLS FOR NATIVE SEED AREAS.

CONTRACTOR IS TO COORDINATE THESE GRADING SPECIFICATIONS WITH GENERAL CONTRACTOR AND/OR WHOEVER IS PROVIDING ROUGH GRADING. FINAL GRADES IN ALL LANDSCAPE AREAS ARE TO BE ESTABLISHED USING ON-SITE STOCKPILED TOPSOIL.

3. ALL AREAS SHOWN AS 'NATIVE SEED' TO BE SEEDED WITH 'LOW GROW NATIVE SEED MIX' (PAWNEE BUTTE SEED, INC.) BY DRILL SEEDING AND/OR HYDRO-MULCHING AT A RATE OF 1 LB. PER 1.000 SQ. FT. REFER TO NATIVE SEED ESTABLISHMENT SPECIFICATION FOR MORE DETAILED INSTRUCTIONS.

4. SPECIFIED MULCH TO BE PLACED AROUND THE BASE OF EACH PROPOSED TREE IS TO CONSIST OF 'COURSE TREE' MULCH (ROCKY TOP RESOURCES).

5. ROCK COVER AREAS TO CONSIST OF 1.5" DIAMETER 'CIMARRON GRANITE' CRUSHED ROCK (C&C SAND), SPREAD OVER LANDSCAPE FABRIC. LANDSCAPE FABRIC TO CONSIST OF 'DEWITT' WEED BARRIER PRO. 3 OZ BLACK WOVEN POLYPROPYLENE FABRIC. FABRIC TO OVERLAP 6" MINIMUM AT ALL SEAMS. 6' STEEL ANCHOR PINS TO BE INSTALLED 6' O.C. MAX.

SOIL PREPARATION NOTES

1. PROPOSED NATIVE GRASS AREAS: ALL SEEDED AREAS TO RECEIVE 3 CU. YDS. PER 1,000 SQ. FT. OF IMPORTED GRADE A TOPSOIL (C&C SAND) INCORPORATED INTO EXISTING SOIL AND ROTO-TILLED TO A 6" DEPTH.

2 PROPOSED TREES AND SHRUBS: ALL PROPOSED TREES ARE TO BE BACKFILLED WITH A MIXTURE OF 'BIOCOMP' SOIL AMENDMENT AND IMPORTED GRADE A TOPSOIL (C&C SAND). REFER TO PLANTING DETAILS.

IRRIGATION NOTES

1. ALL PROPOSED TREES AND SHRUBS ARE TO BE WATERED BY A PROPOSED DRIP IRRIGATION SYSTEM. IRRIGATION SYSTEM SHALL INCLUDE AUTOMATIC CONTROLLER, RAIN SENSOR, BACKFLOW PREVENTER (INSTALLED PER LOCAL CODES), AND TWO QUICK COUPLERS EVENLY SPACED ALONG BRADLEY ROAD FRONTAGE. TREES TO HAVE (4) 1 GPH EMITTERS EACH EVENLY SPACED AT EDGE OF ROOT BALL, SHRUBS TO HAVE (2) 1 GPH EMITTERS EACH EVENLY SPACED AT EDGE OF ROOT BALL. ALL DRIP PIPE SHALL BE SECURED WITH 6" METAL STAKES AND BURIED.

2. ALL DISTURBED NATIVE SEED AREAS TO RECEIVE TEMPORARY IRRIGATION UNTIL NATIVE GRASS IS ESTABLISHED. REFER TO NATIVE SEED ESTABLISHMENT SPECIFICATION. HOSES ARE TO BE CONNECTED TO BUILDING HOSE BIBS AND IRRIGATION QUICK COUPLERS TO MANUALLY WATER PROPOSED NATIVE SEED AREAS WITH PORTABLE SPRINKLERS UNTIL ESTABLISHED.

GRADING / DRAINAGE NOTES

1. LANDSCAPE CONTRACTOR IS TO VERIFY THAT ALL FINISHED GRADES COMPLY WITH GRADING PLAN PREPARED BY CIVIL ENGINEER. VERIFY THAT ALL SLOPES DRAIN AWAY FROM BUILDING(S) AND THAT DRAINAGE SWALES ARE CORRECTLY LOCATED AND CARRY WATER AS INTENDED. NOTIFY GENERAL CONTRACTOR PRIOR TO CONSTRUCTION IF STANDING WATER IS PRESENT (OTHER THAN DETENTION FACILITIES) OR IF SLOPES ARE NOT GRADED AS PER APPROVED GRADING

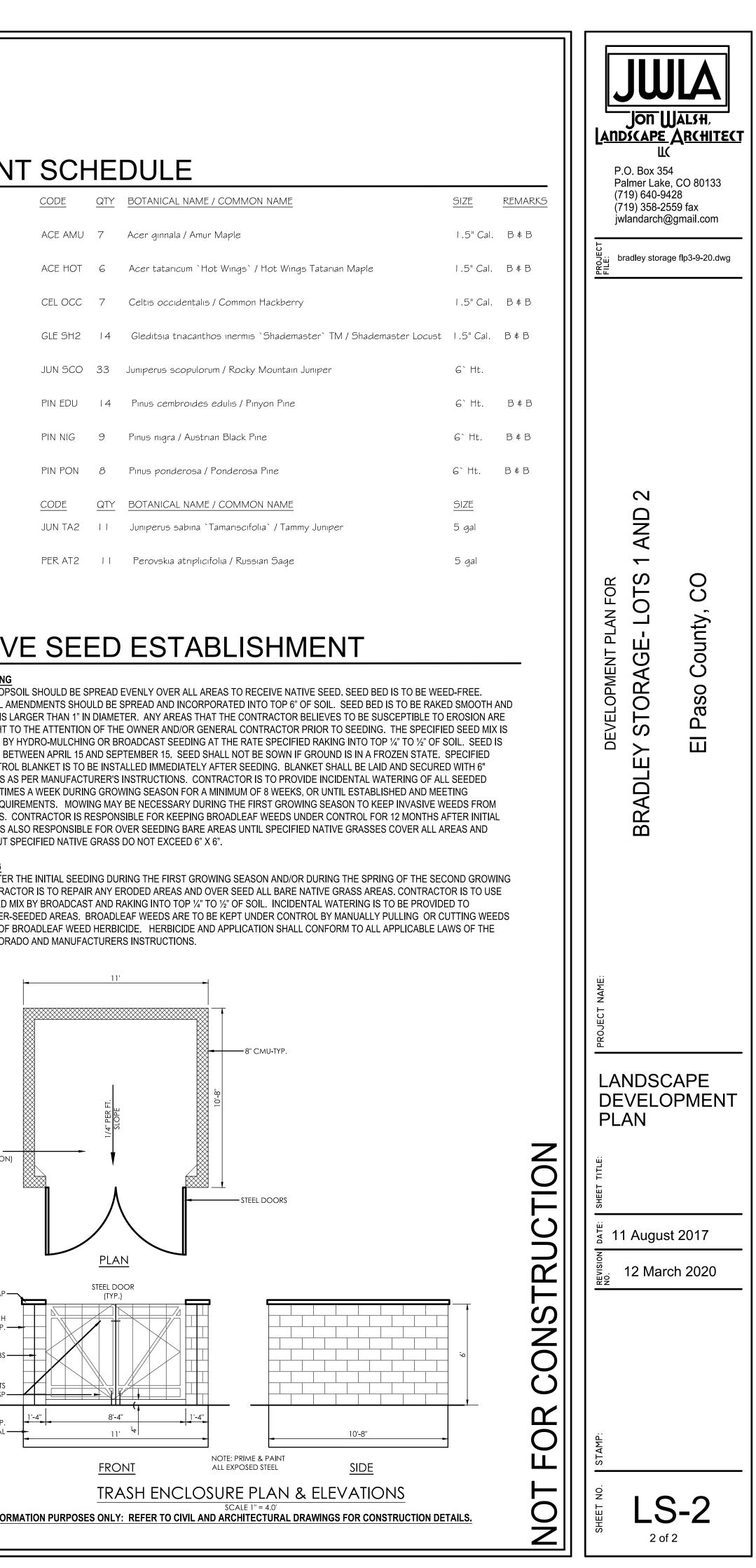
2. LANDSCAPE CONTRACTOR IS TO LOCATE ALL DOWNSPOUTS AND DOWNSPOUT EXTENSIONS AND VERIFY THAT NO OBSTRUCTIONS ARE IMPEDING THE FLOW OF WATER AWAY FROM THE BUILDING. REMOVE ANY STEEL EDGING WITHIN10' OF BUILDING(S) TO ALLOW DOWNSPOUT DRAINAGE TO FLOW THROUGH LANDSCAPE BEDS. USE PERFORATED STEEL EDGING WHEREVER DRAINAGE WILL NOT FREELY FLOW THROUGH LANDSCAPE BEDS. IF DOWNSPOUT DRAINAGE IS FLOWING THROUGH WOOD MULCH BEDS CREATE A DRAINAGE SWALE 2' TO 3' WIDE USING 2" TO 4" RIVER ROCK OVER LANDSCAPE FABRIC.

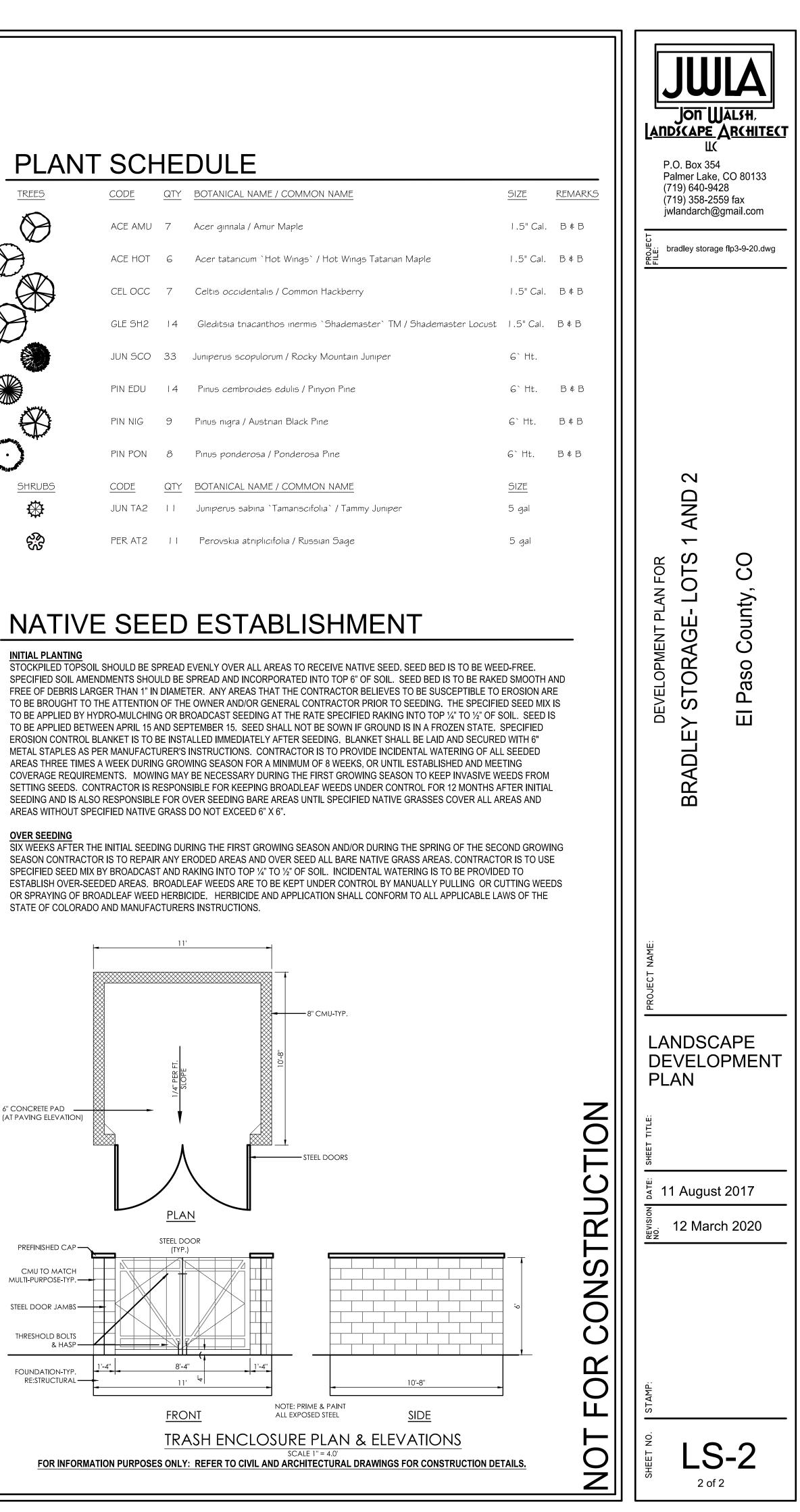
3. LANDSCAPE CONTRACTOR IS TO PROVIDE TEMPORARY EROSION MITIGATION MEASURES FOR THE DURATION OF LANDSCAPE CONSTRUCTION AND THROUGH ESTABLISHMENT OF NATIVE GRASS. THIS INCLUDES PLACEMENT OF WATTLES AND/OR EROSION BLANKET WHEREVER DRAINAGE ERODES BARE SOIL AND RUNOFF CAN POTENTIALLY DAMAGE NEIGHBORING PROPERTIES.



STOCKPILED TOPSOIL SHOULD BE SPREAD EVENLY OVER ALL AREAS TO RECEIVE NATIVE SEED. SEED BED IS TO BE WEED-FREE FREE OF DEBRIS LARGER THAN 1" IN DIAMETER. ANY AREAS THAT THE CONTRACTOR BELIEVES TO BE SUSCEPTIBLE TO EROSION ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER AND/OR GENERAL CONTRACTOR PRIOR TO SEEDING. THE SPECIFIED SEED MIX IS TO BE APPLIED BY HYDRO-MULCHING OR BROADCAST SEEDING AT THE RATE SPECIFIED RAKING INTO TOP 1/4" TO 1/2" OF SOIL. SEED IS TO BE APPLIED BETWEEN APRIL 15 AND SEPTEMBER 15. SEED SHALL NOT BE SOWN IF GROUND IS IN A FROZEN STATE. SPECIFIED EROSION CONTROL BLANKET IS TO BE INSTALLED IMMEDIATELY AFTER SEEDING. BLANKET SHALL BE LAID AND SECURED WITH 6" METAL STAPLES AS PER MANUFACTURER'S INSTRUCTIONS. CONTRACTOR IS TO PROVIDE INCIDENTAL WATERING OF ALL SEEDED AREAS THREE TIMES A WEEK DURING GROWING SEASON FOR A MINIMUM OF 8 WEEKS, OR UNTIL ESTABLISHED AND MEETING COVERAGE REQUIREMENTS. MOWING MAY BE NECESSARY DURING THE FIRST GROWING SEASON TO KEEP INVASIVE WEEDS FROM SETTING SEEDS. CONTRACTOR IS RESPONSIBLE FOR KEEPING BROADLEAF WEEDS UNDER CONTROL FOR 12 MONTHS AFTER INITIAL SEEDING AND IS ALSO RESPONSIBLE FOR OVER SEEDING BARE AREAS UNTIL SPECIFIED NATIVE GRASSES COVER ALL AREAS AND AREAS WITHOUT SPECIFIED NATIVE GRASS DO NOT EXCEED 6" X 6".

SEASON CONTRACTOR IS TO REPAIR ANY ERODED AREAS AND OVER SEED ALL BARE NATIVE GRASS AREAS. CONTRACTOR IS TO USE SPECIFIED SEED MIX BY BROADCAST AND RAKING INTO TOP 1/4" TO 1/2" OF SOIL. INCIDENTAL WATERING IS TO BE PROVIDED TO ESTABLISH OVER-SEEDED AREAS. BROADLEAF WEEDS ARE TO BE KEPT UNDER CONTROL BY MANUALLY PULLING OR CUTTING WEEDS OR SPRAYING OF BROADLEAF WEED HERBICIDE. HERBICIDE AND APPLICATION SHALL CONFORM TO ALL APPLICABLE LAWS OF THE STATE OF COLORADO AND MANUFACTURERS INSTRUCTIONS.





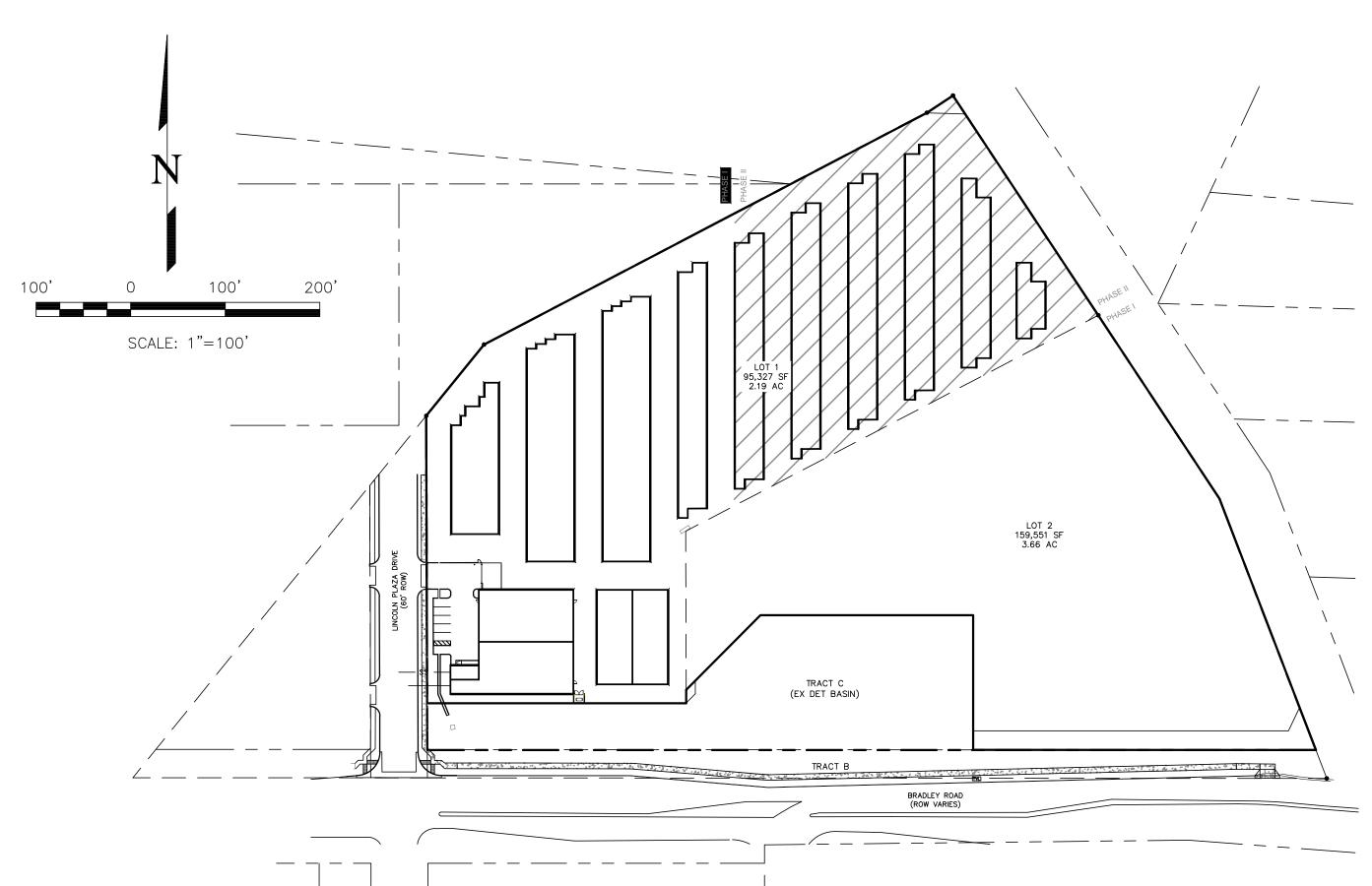
QTY	BOTANICAL NAME / COMMON NAME	SIZE	REMARKS
7	Acer ginnala / Amur Maple	1.5" Cal.	B¢B
6	Acer tatarıcum `Hot Wings` / Hot Wings Tatarıan Maple	1.5" Cal.	B∉B
7	Celtis occidentalis / Common Hackberry	1.5" Cal.	B¢B
14	Gleditsia triacanthos inermis `Shademaster` TM / Shademaster Locust	1.5" Cal.	B¢B
33	Juniperus scopulorum / Rocky Mountain Juniper	6`Ht.	
14	Pinus cembroides edulis / Pinyon Pine	6`Ht.	B¢B
9	Pinus nigra / Austrian Black Pine	6`Ht.	B¢B
8	Pinus ponderosa / Ponderosa Pine	6`Ht.	B¢B
QTY	BOTANICAL NAME / COMMON NAME	SIZE	
	Juniperus sabina `Tamariscifolia` / Tammy Juniper	5 gal	
	Perovskia atriplicifolia / Russian Sage	5 gal	

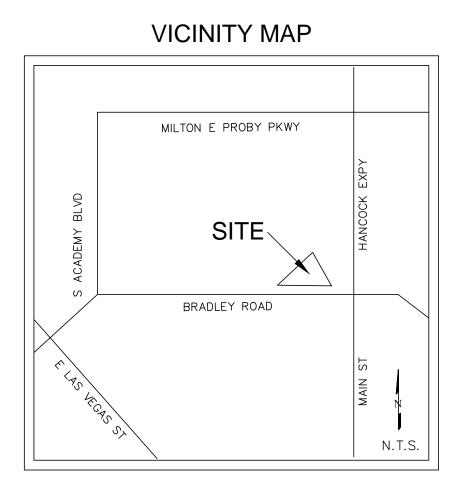


BRADLEY STORAGE EL PASO COUNTY, CO **GRADING AND EROSION CONTROL PLAN** MARCH 2019

EROSION CONTROL COST OPINION:

1.	1,965 LF—SILT FENCE @ \$4.00/LF	\$ 7,860
2.	5 EA-ROCK SOCK @ \$110/EA	\$ 550
3.	1 EA-VEHICLE TRACKING CONTROL @ \$1,325/ENTRANCE	\$ 1,325
4.	0.7 AC-SEED AND MULTCH @ \$5,150/AC	\$ 3,605
5.	1 EA-INLET PROTECTION @ \$300/EA	\$ 300
6.	1 EA.—CONCRETE WASHOUT @ \$760/EA	\$ 760
7.	40% MAINTENANCE AND REPLACEMENT	\$ 5,760
	TOTAL	\$ 20,160





		DATE
SHEET INDEX: 1 COVER SHEET 2 NOTES SHEET 3 GRADING PLAN 4 EROSION CONTROL PLAN 5 EROSION CONTROL DETAI 6 EROSION CONTROL DETAI 5 SITE ADDRESS		REVISIONS DESCRIPTION
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CIVIL ENGINEER:	TERRA NOVA ENGINEERING, INC. (LUANNE DUCETT) 721 S. 23RD STREET COLORADO SPRINGS, COLORADO 80904 (719) 635–6422	
EL PASO COUNTY	PLANNING AND COMMUNITY DEVELOPMENT 2880 INTERNATIONAL CIRCLE COLORADO SPRINGS, COLORADO 80910 (719) 520-6300	CROUP CROUP RE 80132 45
<u>BENCHMARKS</u>	OGIC GROUP "A", MOSTLY BLAKELAND LOAMY SAND MARKED "KRAETTLI PLS 9646" Ə)	PREPARED FOR: PREPARED FOR: ATTN: KEITH MOOI 19375 BEACON LI ⁻ MONUMENT, CO 719.844.214
SUPERVISION AND IS CORRECT HAS BEEN PREPARED ACCORDI GRADING AND EROSION CONTRO	ONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN NG TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING	co 80904 Terra Nova 22 Ĝeative Civil Engineering Solutions
DANE FRANK, P.E. #50207 FOR AND ON BEHALF OF TERR	A NOVA ENGINEERING, INC.	721 S. 23RD STREET COLORADO SPRINGS, CO OFFICE: 719–635–6422 FAX: 719–635–6426 www.tnesinc.com
OWNER'S STATEMENT THE OWNER WILL COMPLY WITH CONTROL PLAN.	THE REQUIREMENTS OF THE GRADING AND EROSION	COL OFFI WWW
OWNER NAME:	DATE:	
SIGNED BY:		PLAN
TITLE:		
ADDRESS:		STORAGE ON CONTROL SHEET
EL PASO COUNTY APPR	OVAL	
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IN ACCORDANCE WITH ECM SEC VALID FOR CONSTRUCTION FOR EL PASO COUNTY ENGINEER. YEARS, THE PLANS WILL NEED	CTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT NING AND COMMUNITY DEVELOPMENT DIRECTORS	
JENNIFER IRVINE, P.E.	DATE	DESIGNED BY DLF DRAWN BY DLF
COUNTY ENGINEER / ECM ADI		CHECKED BY LD
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STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

CONSTRUCTION MAY NOT COMMENCE UNTIL A CONSTRUCTION PERMIT IS OBTAINED FROM PLANNING AND COMMUNITY DEVELOPMENT (PCD) AND A PRE-CONSTRUCTION CONFERENCE IS HELD WITH PCD INSPECTIONS.

2. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF SITE WATERS, INCLUDING WETLANDS.

3. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.

4. A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED STORMWATER MANAGER, SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.

5. ONCE THE ESQCP HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL BMPS AS INDICATED ON THE GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY PCD INSPECTIONS STAFF.

6. SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 21 CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE, HAS BEEN COMPLETED DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SEEDED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMPS SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND ESTABLISHED.

7. TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND EARTH DISTURBANCE AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURSUANT TO STANDARDS AND SPECIFICATION PRESCRIBED IN THE DCM VOLUME II AND THE ENGINEERING CRITERIA MANUAL (ECM) APPENDIX I.

8. ALL PERSONS ENGAGED IN EARTH DISTURBANCE SHALL IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BMPS IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME II AND IN ACCORDANCE WITH THE STORMWATER MANAGEMENT PLAN (SWMP).

9. ALL TEMPORARY EROSION CONTROL FACILITIES INCLUDING BMPS AND ALL PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF ANY EARTH DISTURBANCE OPERATIONS, SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS, THE SWMP AND THE DCM VOLUME II AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION.

10. ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME.

11. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE DISCHARGE TO A NON-EROSIVE VELOCITY.

12. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.

13. EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1.

14. BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.

15. VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.

16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.

17. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.

18. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.

19. NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.

20. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.

21. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCHLINE.

22. INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.

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

24. PRIOR TO ACTUAL CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.

25. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.

26. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. AND SHALL BE CONSIDERED A PART OF THESE PLANS.

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

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT WATER QUALITY CONTROL DIVISION

WQCD - PERMITS 4300 CHERRY CREEK DRIVE SOUTH DENVER, CO 80246-1530 ATTN: PERMITS UNIT

BRADLEY STORAGE EL PASO COUNTY, CO **GRADING AND EROSION CONTROL PLAN** MARCH 2019

EL PASO COUNTY STANDARD CONSTRUCTION NOTES:

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 & 2 AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL

CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND 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).

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

- A. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
- B. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 & 2 C. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
- D. CDOT M & S STANDARDS.

4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE 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-FACE WILL BE ENTIERELY 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 CONTRACTORS 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 PUBLIC WORK DEPARTMENT AND MUTCD CRITERIA.

14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY PWD, 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.

<u>CONSTRUCTION SCHEDULE</u>

BEGIN GRADING: SPRING 2019, END GRADING: SUMMER 2019

PHASE I/II APPLIES TO BUILDING CONSTRUCTION. ALL GRADING IS TO BE PERFORMED DURING PHASE I.

CONSTRUCTION NOTES:

1. ALL WORK SHALL COMPLY WITH THE CODES AND POLICIES FOR EL PASO COUNTY.

2. EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THIS GRADING PLAN WAS OBTAINED FROM AERIAL CONTOURS. THE CONTRACTOR SHALL BE RESPONSIBLE TO EXAMINE THE SITE AND BE FAMILIAR WITH THE EXISTING CONDITIONS.

DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS: BASE OF ALL CUTS AND FILLS - 12 INCHES, FULL DEPTH OF ALL EMBANKMENTS.

4. THE CONTRACTOR IS RESPONSIBLE FOR THE RE-ESTABLISHMENT OF ALL SURVEY MONUMENTS DISTURBED WITHIN THE PROJECT LIMITS.

5. THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM FLOODING AT ALL TIMES. AREAS AND FACILITIES SUBJECTED TO FLOODING, REGARDLESS OF THE SOURCE OF WATER, SHALL BE PROMPTLY DEWATERED AND RESTORED.

6. PRIOR TO PAVING OPERATIONS, THE ENTIRE SUBGRADE SHALL BE PROOF-ROLLED WITH A LOADED 988 FRONT-END LOADER OR SIMILAR HEAVY RUBBER TIRED VEHICLE (GVW OF 50.000 POUNDS WITH 18 KIP PER AXLE AT TIRE PRESSURES OF 90 PSI) TO DETECT ANY SOFT OR LOOSE AREAS. IN AREAS WHERE SOFT OR LOOSE SOILS, PUMPING OR EXCESSIVE MOVEMENT IS OBSERVED, THE EXPOSED MATERIALS SHALL BE OVER-EXCAVATED TO A MINIMUM DEPTH OF TWO FEET BELOW PROPOSED FINAL GRADE OR TO A DEPTH AT WHICH SOILS ARE STABLE. AFTER THIS HAS BEEN COMPLETED, THE EXPOSED MATERIALS SHALL BE SCARIFIED TO A DEPTH OF 12 INCHES AND MOISTURE CONDITIONED. THE SUBGRADE SHALL THEN BE UNIFORMLY COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR DENSITY (ASTMM D-698) AT 0 TO +4.0% OF OPTIMUM MOISTURE CONTENT FOR A-6 AND A-7-6 SOILS ENCOUNTERED. OTHER SUBGRADE TYPES SHALL BE UNIFORMLY COMPACTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR DENSITY (ASTM D-1557) AT PLUS OR MINUS 2.0% OF OPTIMUM MOISTURE CONTENT. AREAS WHERE STABLE NATURAL SOILS ARE ENCOUNTERED AT PROPOSED SUBGRADE ELEVATION SHALL ALSO BE SCARIFIED (18 INCHES FOR A-7-6 SOILS BELOW FULL-DEPTH ASPHALT CONCRETE) AND COMPACTED AS OUTLINED ABOVE PRIOR TO PAVING OPERATIONS. SUBGRADE FILL SHALL BE PLACED IN SIX-INCH LIFTS AND UNIFORMLY COMPACTED, MEETING THE REQUIREMENTS AS PREVIOUSLY DESCRIBED.

7. SUBGRADE MATERIALS DEEMED UNSUITABLE BY THE ENGINEER SHALL BE EXCAVATED, DISPOSED OF AND REPLACED WITH APPROVED MATERIALS.

8. FILL SHALL BE PLACED IN 8-INCH MAXIMUM LOOSE LIFTS AND SHALL BE COMPACTED PRIOR TO SUCCESSIVE LIFTS.

9. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DURING CONSTRUCTION ACTIVITIES AT ALL TIMES DURING GRADING AND CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES: -SEDIMENT CONTROL LOGS WHERE NEEDED AND/OR AS DIRECTED BY THE ENGINEER. -SILT FENCE WHERE NEEDED AND/OR AS DIRECTED BY THE ENGINEER. -PERMANENT SEEDING AND MULCHING WHERE NEEDED AND/OR AS DIRECTED BY THE

- ENGINEER.
- -CONCRETE WASH AREAS.

-VEHICLE TRACKING CONTROL. -SOIL STOCKPILING AREA.

-MATERIALS STAGING AREA.

THESE AND ALL EROSION CONTROL BEST MANAGEMENT PRACTICES AS SHOWN IN THE GRADING AND EROSION CONTROL PLANS SHALL BE STRICTLY ADHERED TO.

10. FINISHED CONTOURS/ SPOT ELEVATIONS SHOWN HEREON REPRESENT FINISHED GRADES.

REVISIONS NO. DESCRIPTION DATE	
UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES,	TERRA NOVA ENGINEERING, INC. APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.
PREPARED FOR: ROCKY MOUNTAIN GROUP ATTN: KFITH MOORF	19375 BEACON LITE ROAD Monument, co 80132 719.844.2145
721 S. 23RD STREET COLORADO SPRINGS, CO 80904 Tarra Nous	OFFICE: 719-635-6422 C. Engineering, Inc. FAX: 719-635-6426 Ceative Civil Engineering Solutions
BRADLEY STORAGE	GRADING AND EROSION CONTROL PLAN NOTES SHEET
	DLF

BENCHMARKS

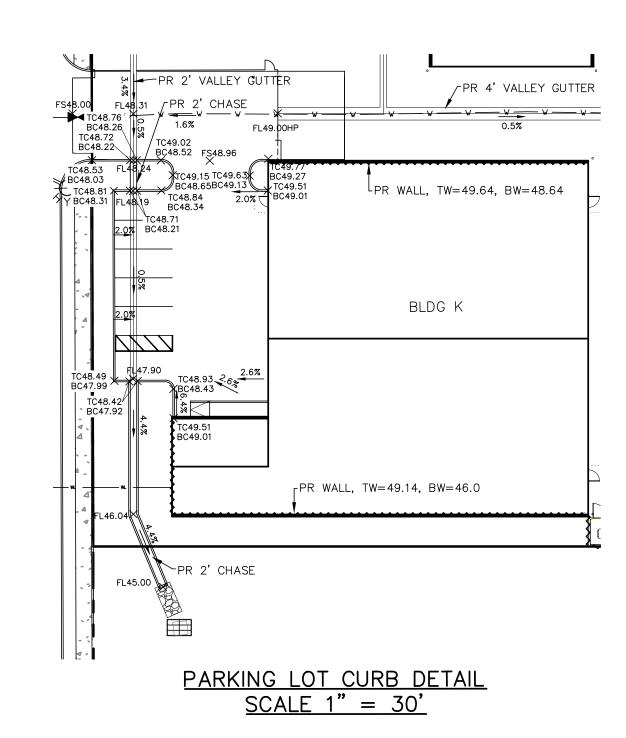
REBAR WITH PLASTIC CAP MARKED "KRAETTLI PLS 9646" ELEV=5852.94 (NGVD-1929)

<u>NOTES</u>

1. PROPOSED SURFACE AROUND PHASE 1 BUILDINGS IS CONCRETE. PROPOSED SURFACE IN THE PHASE 1 PARKING STORAGE AREA (LOT 2) IS ASPHALT. PROPOSED SURFACE IN THE PHASE 2 AREA (PRIOR TO PHASE 2 CONSTRUCTION) IS ASPHALT MILLINGS, ROAD BASE, OR SIMILAR. 2. PHASE I/II APPLIES TO BUILDING CONSTRUCTION. ALL GRADING IS TO BE PERFORMED DURING PHASE I. 3. THE EXTENT OF THE RETAINING WALL ON THE NORTHWEST PROPERTY LINE ASSUMES GRADING ACTIVITIES CAN BE EXTENDED ONTO THE NEIGHBORING PROPERTY TO THE NORTHWEST. IF THIS IS NOT THE CASE, THIS RETAINING WALL WILL HAVE TO BE EXTENDED WEST.

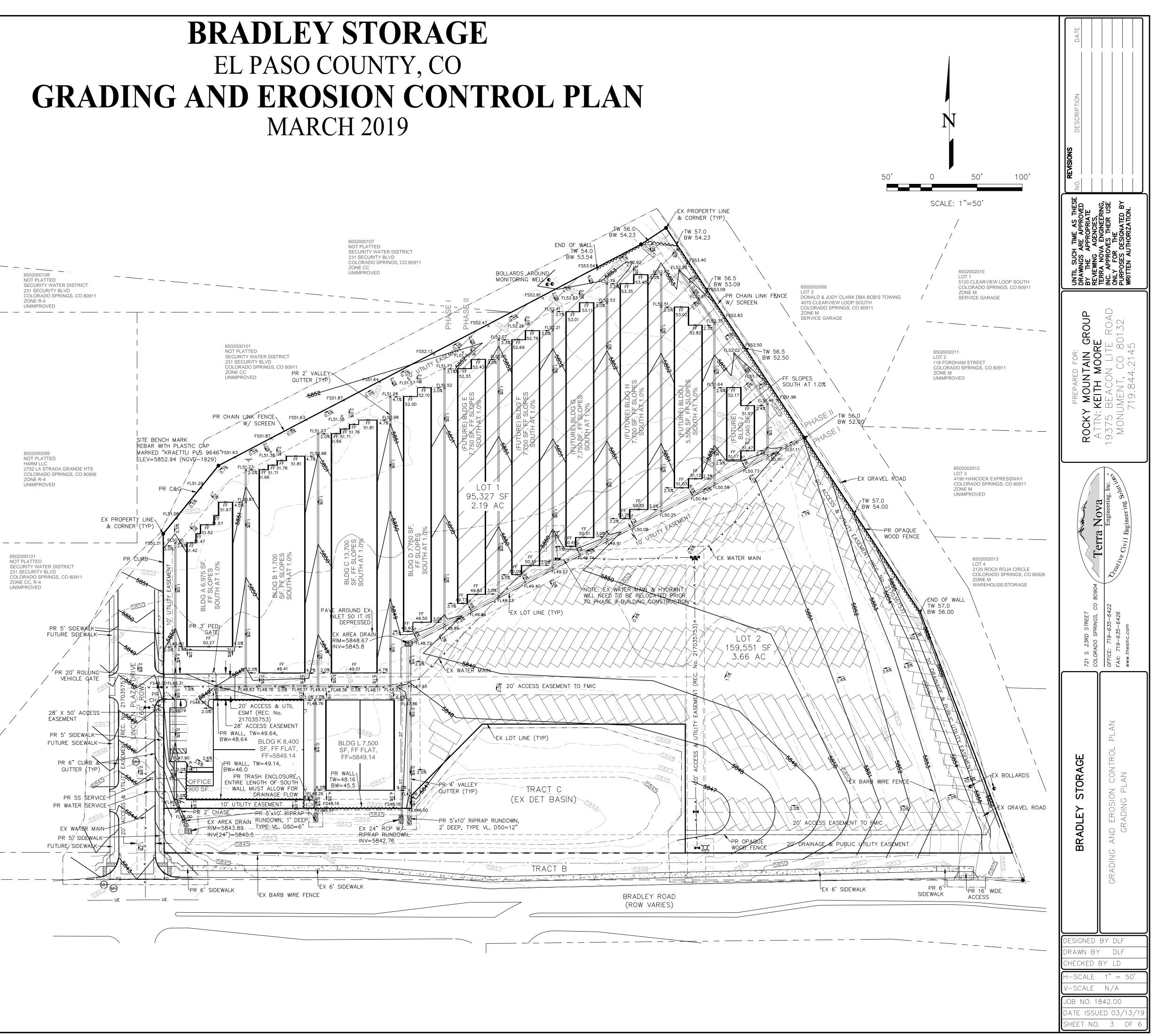
GRADING LEGEND

EXISTING CONTOURS - MINOR	61 <u>32</u>
EXISTING CONTOURS - MAJOR	6130
WATER LINE	W W
SANITARY SEWER LINE	22
STORM SEWER LINE	ST
GAS LINE	GAS
UNDERGROUND ELECTRICAL LINE	UE
FIBER OPTIC LINE	——— FD ———
LIMITS OF CONSTRUCTION & AREA OF SOIL DISTURBANCE	<u></u>
RETAINING WALL	
MANHOLE	МН
WATER VALVE	M
FIRE HYDRANT	Ķ
SIGN	
PROPOSED FINISHED GROUND	FG
PROPOSED FINISHED SURFACE	FS
PROPOSED FLOWLINE	FL
PROPOSED FINISH FLOOR	FF
SPOT ELEVATION	SE
LOW POINT	LP
HIGH POINT	HP
TOP OF WALL	TW
BOTTOM OF WALL (AT GRADE)	BW
TOP OF CURB	TC
BOTTOM OF CURB	BC
GRADE & DIRECTION	2.2%
PROPOSED CONTOUR	<u> ~62</u>
EXISTING SPOT GRADE	X EX 7314.00
PROPOSED SPOT GRADE	× 7314.00











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BENCHMARKS

REBAR WITH PLASTIC CAP MARKED "KRAETTLI PLS 9646" ELEV=5852.94 (NGVD-1929)

EROSION CONTROL NOTES

1. PERMENANT SEEDING AND MULTCH IS TO BE APPLIED TO ALL DISTURBED AREAS THAT ARE NOT BEING PAVED OR SURFACED WITH GRAVEL (OR SIMILAR). 2. SITE FENCE CAN BE REPLACED WITH SEDIMENT CONTROL LOGS AND VICE VERSA. 3. PHASE I/II APPLIES TO BUILDING CONSTRUCTION. ALL GRADING IS TO BE PERFORMED DURING PHASE I.

EROSION CONTROL QUANTITIES

SILT FENCE: 1,965 LF INLET PROTECTION: 2 EA ROCK SOCKS: 5 EA

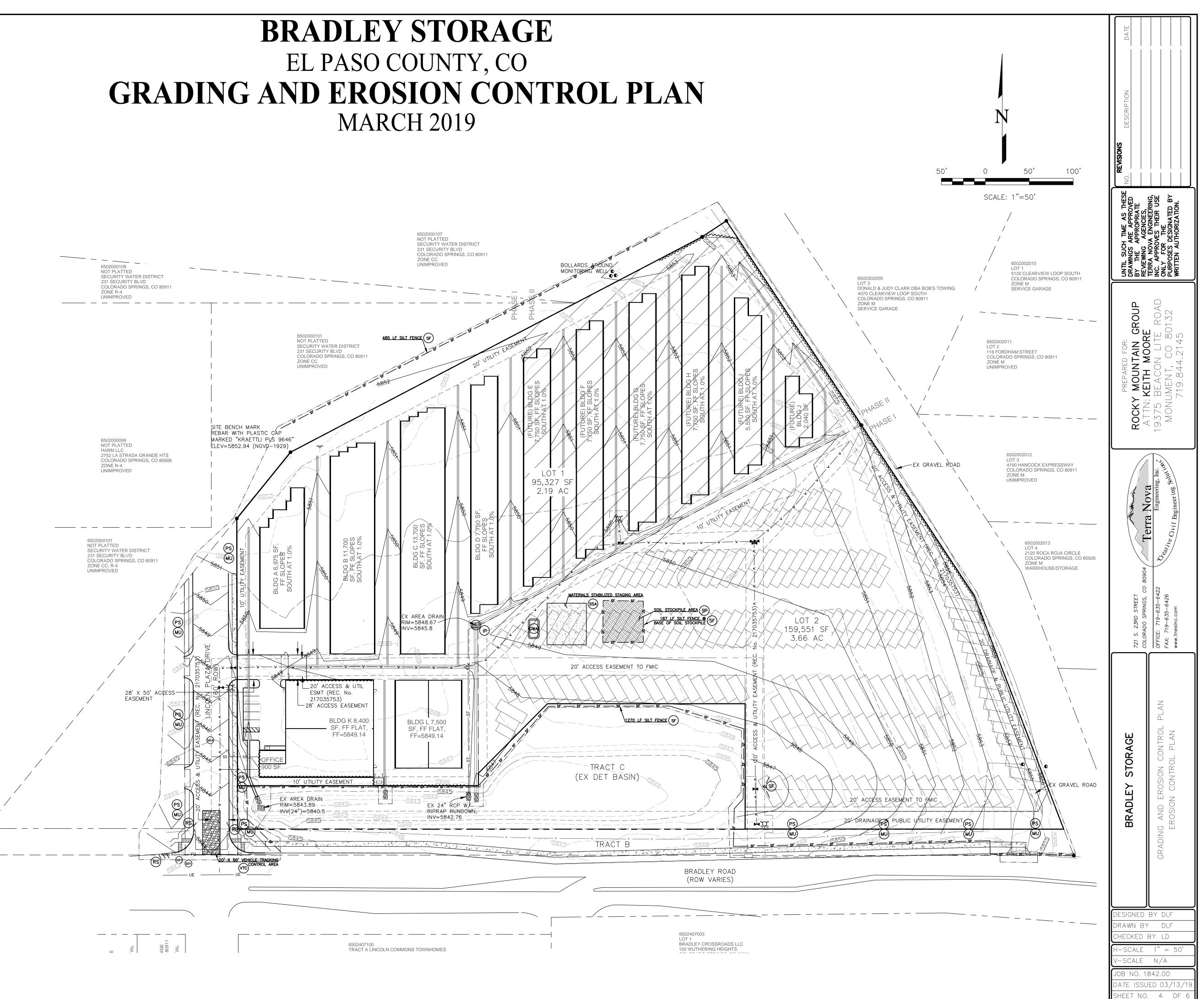
SEED & MULCH: 0.7 AC

GRADING LEGEND

EXISTING CONTOURS - MINOR	61 <u>32</u>
EXISTING CONTOURS - MAJOR	<u>6130</u>
WATER LINE	W W
SANITARY SEWER LINE	22
STORM SEWER LINE	ST
GAS LINE	GAS
UNDERGROUND ELECTRICAL LINE	UE
FIBER OPTIC LINE	———— FD ————
LIMITS OF CONSTRUCTION & AREA OF SOIL DISTURBANCE	· · · ·
RETAINING WALL	
MANHOLE	MH
WATER VALVE	M
FIRE HYDRANT	Ķ
SIGN	
PROPOSED FINISHED GROUND	FG
PROPOSED FINISHED SURFACE	FS
PROPOSED FLOWLINE	FL
PROPOSED FINISH FLOOR	FF
SPOT ELEVATION	SE
LOW POINT	LP
HIGH POINT	HP
TOP OF WALL	TW
BOTTOM OF WALL (AT GRADE)	BW
GRADE & DIRECTION	2.2%
PROPOSED CONTOUR	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
EXISTING SPOT GRADE	× EX 7314.00
PROPOSED SPOT GRADE	× 7314.00

EROSION CONTROL LEGEND

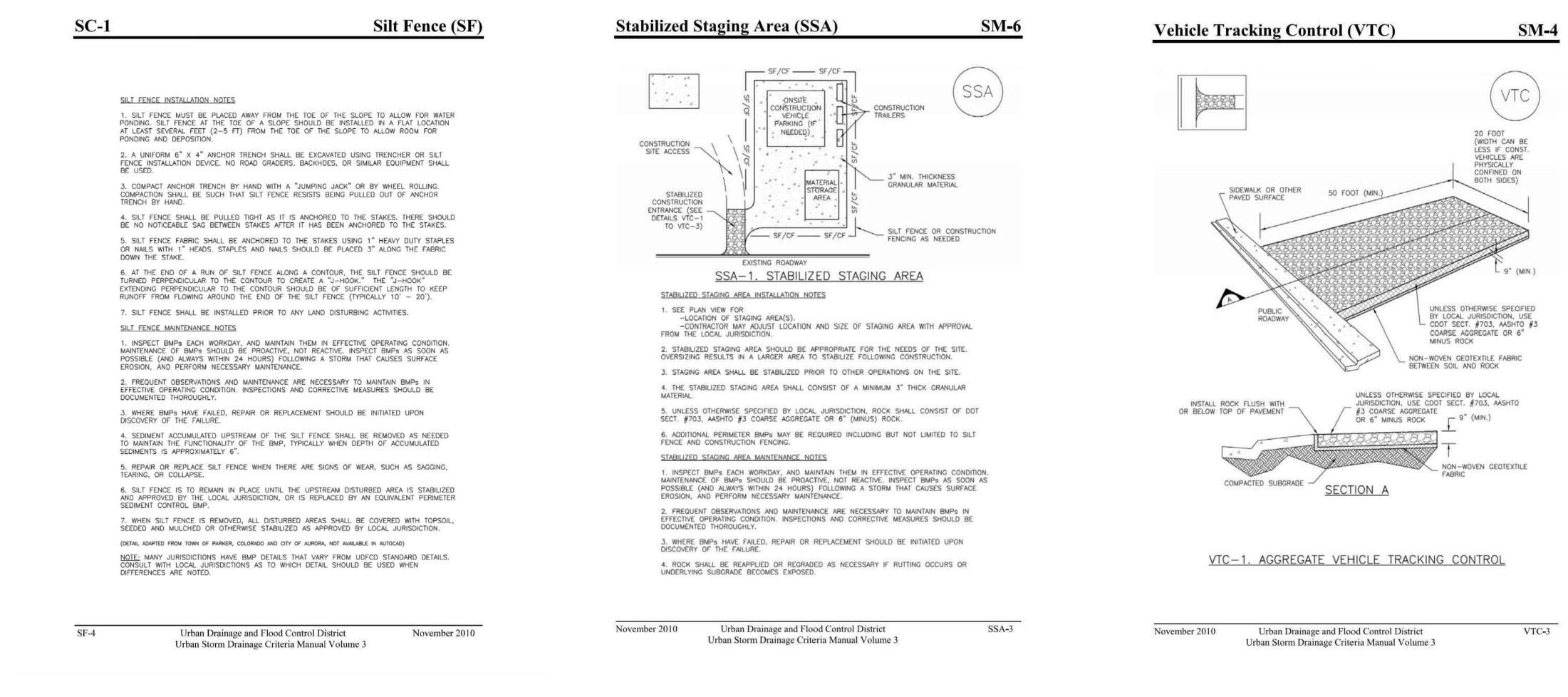
KEY		SYMBOL
SF	SILT FENCE	SF
SSA	STABILIZED STAGING AREA	а. А. А. а. а. а. А. А. а. а. а.
VTC	VEHICLE TRACKING CONTROL	
	INLET PROTECTION	
RS	ROCK SOCK PROTECTION	(<u></u>)(
SP	STOCKPILE MANAGEMENT WITH PROTECTION	
CWA	CONCRETE WASHOUT AREA	
MU	MULCHING — CRIMP FLAT AREAS, HYDROSEED ON SLOP	PES MU
PS	PERMANENT SEEDING – DRIL SEED FLAT AREAS, BROADCA SEED OR HYDROSEED ON SLOPES, SEED MIX PER DRAINAGE CRITERIA MANUAL (MAY 2014) VOL 1, TABLE 1	PS

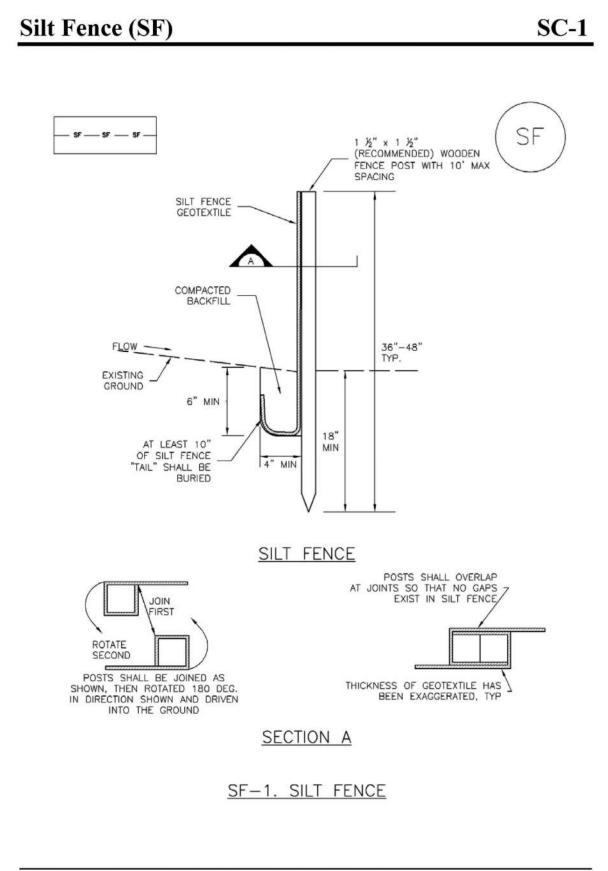


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STABILIZED STAGING AREA MAINTENANCE NOTES STORAGE, AND UNLOADING/LOADING OPERATIONS

Urban Storm Drainage Criteria Manual Volume 3

Urban Drainage and Flood Control District

November 2010

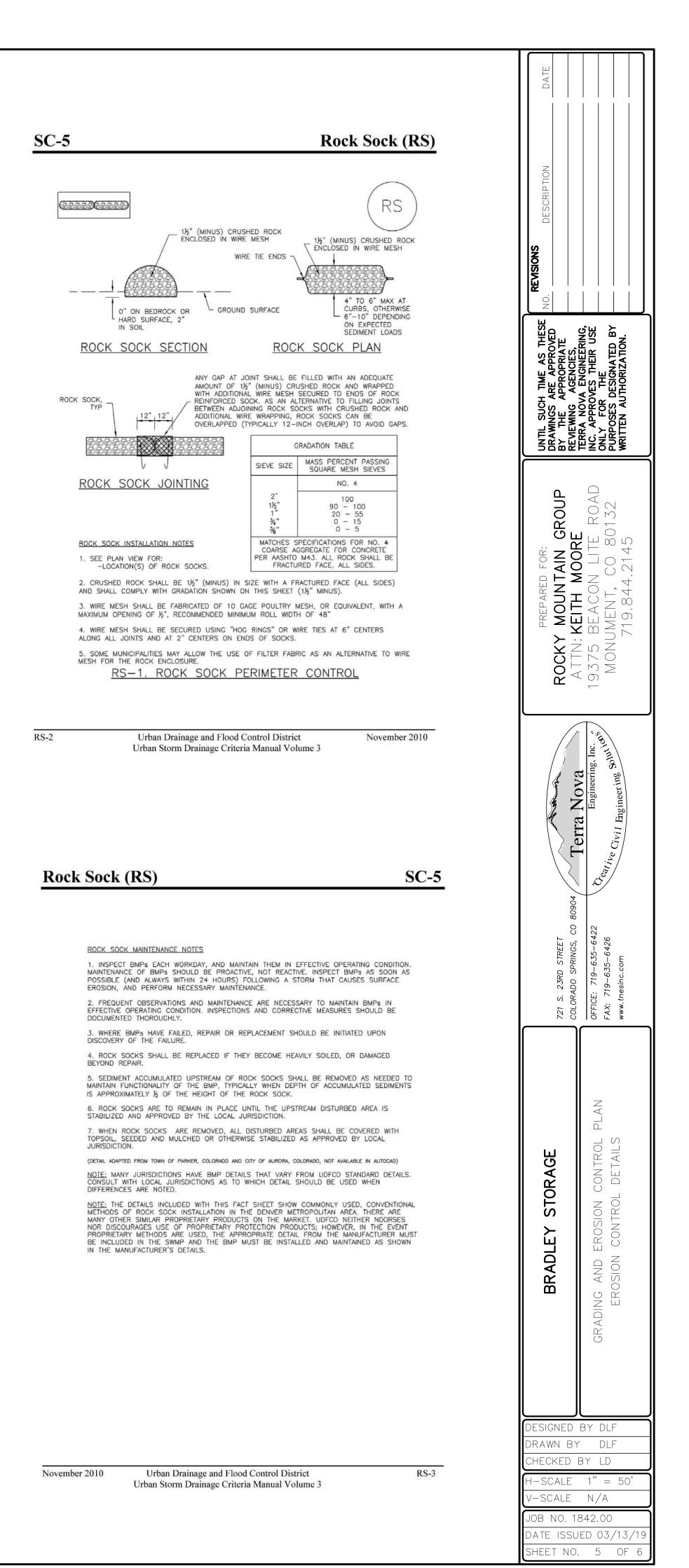
Stabilized	Staging Area	(SSA)
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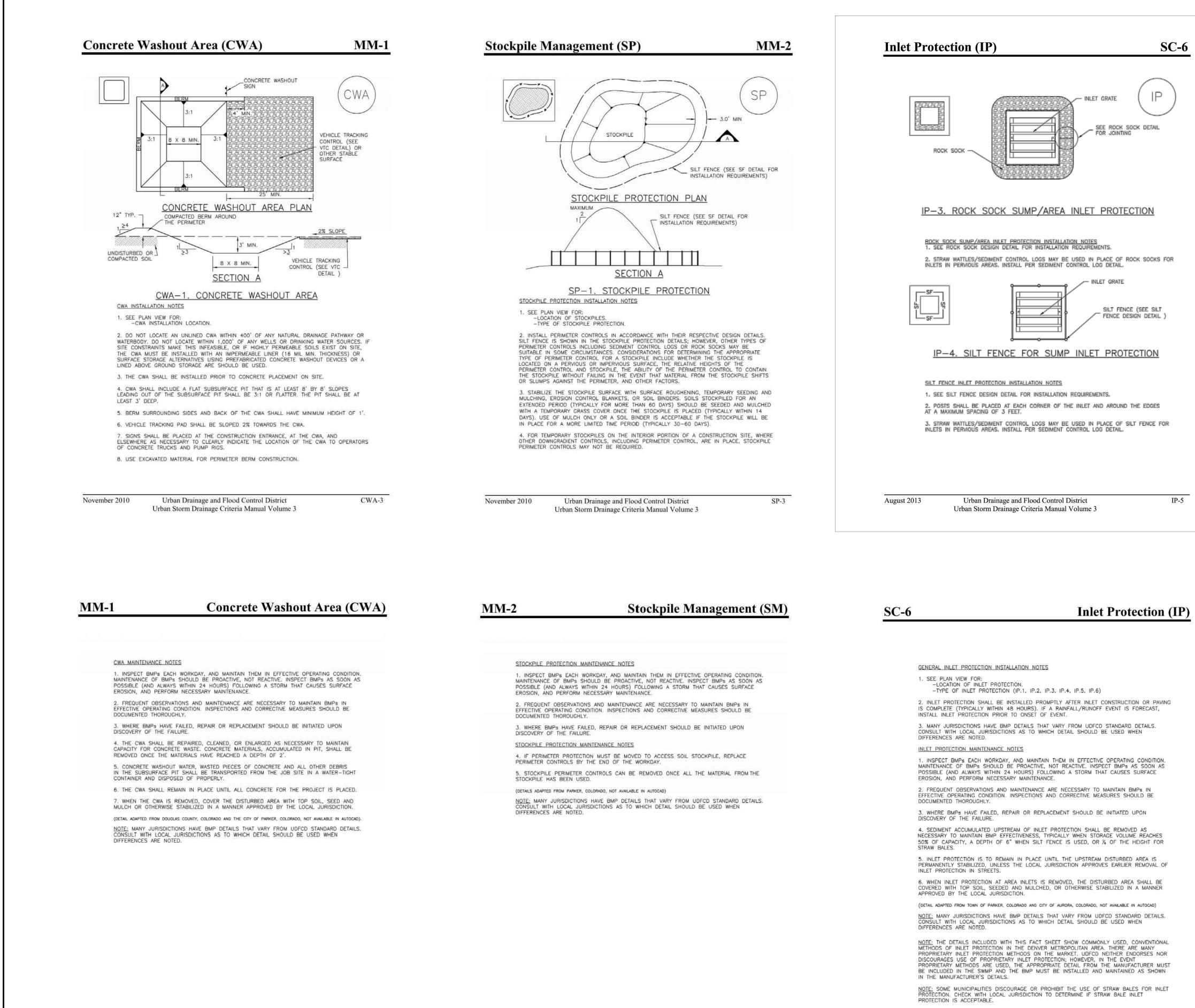
- 5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING,
- 6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED 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)

- 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 BROONFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

November 2010

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REVISIONS DESCRIPTION DATE	
UNTIL SUCH TIME AS THESE DRAMINGS ARE APPROVED BY THE APPROPRIATE REVIEMING AGENCIES,	ILERKA NOVA ENGINEEKING, INC. APPROVES THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION.
PREPARED FOR: ROCKY MOUNTAIN GROUP ATTN: KFITH MOORF	19375 BEACON LITE ROAD Monument, co 80132 719.844.2145
721 S. 23RD STREET COLORADO SPRINGS, CO 80904 Terra Nova	OFFICE: 719-635-6422 Ceality Engineering, Inc. FAX: 719-635-6426 Ceality Engineering Solutions
BRADLEY STORAGE	GRADING AND EROSION CONTROL PLAN EROSION CONTROL DETAILS
/-scale IOB NO. 18 DATE ISSU	DLF BY LD 1" = 50' N/A