ENT CREDIT UNION

SITE DEVELOPMENT PLAN

LOT 1, BLOCK 1, CLAREMONT RANCH FILING NO. 9B
PART OF THE NORTHWEST 1/4 OF SECTION 4, TOWNSHIP 14 SOUTH, RANGE 65 WEST OF THE 6TH P.M.,
CITY OF COLORADO SPRINGS, COUNTY OF EL PASO, STATE OF COLORADO

LIST OF CONTACTS

APPLICANT/DEVELOPER
ENT CREDIT UNION
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COLORADO SPRINGS, CO 80920
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EMAIL: JWILKINS@ENT.COM

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GALLOWAY & COMPANY, INC.
6162 SOUTH WILLOW DRIVE, SUITE 320
GREENWOOD VILLAGE, COLORADO 80111
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FAX: (303) 770-3636
CONTACT: JENNY R. ROMANO, P.E.
EMAIL: JENNYROMANO@GALLOWAYUS.COM

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KEYS & LAUER ARCHITECTS
417 SOUTH CASCADE AVENUE
COLORADO SPRINGS, CO 80903
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EMAIL: VIC@KEYSLAUERARCHITECTS.COM

LANDSCAPE ARCHITECT
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6162 SOUTH WILLOW DRIVE, SUITE 320
GREENWOOD VILLAGE, COLORADO 80111
TEL: (303) 770-8884
FAX: (303) 770-3636
CONTACT: DANIELLE TOEPFER
EMAIL: DANIELLETOEPFER@GALLOWAYUS.COM

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1755 TELSTAR DRIVE, SUITE 107
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TEL: (719) 900-7220
FAX: (303) 770-3636
CONTACT: BRIAN DENNIS
EMAIL: BRIANDENNIS@GALLOWAYUS.COM

VICINITY MAP
SCALE: 1" = 1000'

SHEET INDEX

1	C0.0	COVER SHEET
2	C1.0	SITE PLAN
3	C1.1	SITE DETAILS
4	C5.0	PHOTOMETRIC PLAN
5	C5.1	PHOTOMETRIC DETAILS
6	L1.0	LANDSCAPE PLANS
7	A201	ARCH. BUILDING ELEVATIONS

PROPERTY DESCRIPTION
LOT 1, BLOCK 1, CLAREMONT RANCH FILING NO. 9B, ACCORDING TO THE PLAT THEREOF RECORDED MARCH 14, 2016 AT RECEPTION NO. 216713741 IN THE RECORDS OF EL PASO COUNTY, STATE OF COLORADO.

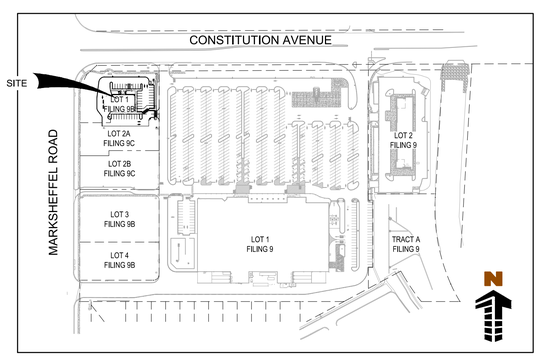
GENERAL SITE DESCRIPTION
PROJECT DESCRIPTION:
CONSTRUCTION OF A 4,300 SQUARE FOOT FINANCIAL BUILDING WITH ASSOCIATED LANDSCAPING, PARKING, AND DRIVES.

CURRENT ZONING: CR (COMMERCIAL REGIONAL)
PROPOSED ZONING: CR (COMMERCIAL REGIONAL)

GENERAL NOTES
1. SURVEY INFORMATION AND TOPOGRAPHIC CONTOURS WERE PROVIDED BY GALLOWAY & COMPANY INC. DATED JANUARY 23, 2018.
2. EL PASO COUNTY SHALL NOT BE LIABLE FOR THE MAINTENANCE OF PRIVATE IMPROVEMENTS AS SHOWN ON THESE PLANS.
3. THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.

SITE DATA TABLE

	LOT 9B	
ITEM	AREA (SQ. FT.)	% OF GROSS SITE
GROSS SITE AREA	43,707	100.0%
* BUILDING FOOTPRINT	4,300	9.8%
*PARKING / DRIVES / WALKS / DISPLAY	22,333	51.1%
* LANDSCAPE AREAS	17,074	39.1%
PARKING DATA	REQUIRED SPACES	PROVIDED SPACES
PARKING RATIO	1 SPACE/250 SF OF GFA	0.9/100
OFFSITE/SHARED PARKING	-	11
STANDARD SPACES	16	25
HANDICAP SPACES	1	2
TOTAL SPACES	17	38
BICYCLE PARKING	1 SPACE/5% OF REQ. PARKING	1 SPACE/250 SF OF GFA



SITE MAP
SCALE: 1" = 1000'

Approved
By:Mike Hrebenar
On behalf of the PCD Executive Director
Date: 07/27/2018

El Paso County Planning & Community Development

PCD FILE NO. PPR-18-012

Galloway
Planning. Architecture. Engineering.
6162 S. Willow Drive, Suite 320
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www.gallowayUS.com

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ENT CREDIT UNION
SITE DEVELOPMENT PLAN
LOT 1, BLOCK 1,
CLAREMONT RANCH FILING NO. 9B

MARKSHEFFEL RD. AND CONSTITUTION AVE
COLORADO SPRINGS, COLORADO

#	Date	Issue / Description	Init.
1	05/09/18	2nd SUBMITTAL	JSB
2	06/12/18	3rd SUBMITTAL	JSB

Project No:	ECU007
Drawn By:	JSB
Checked By:	JRR
Date:	05/03/18

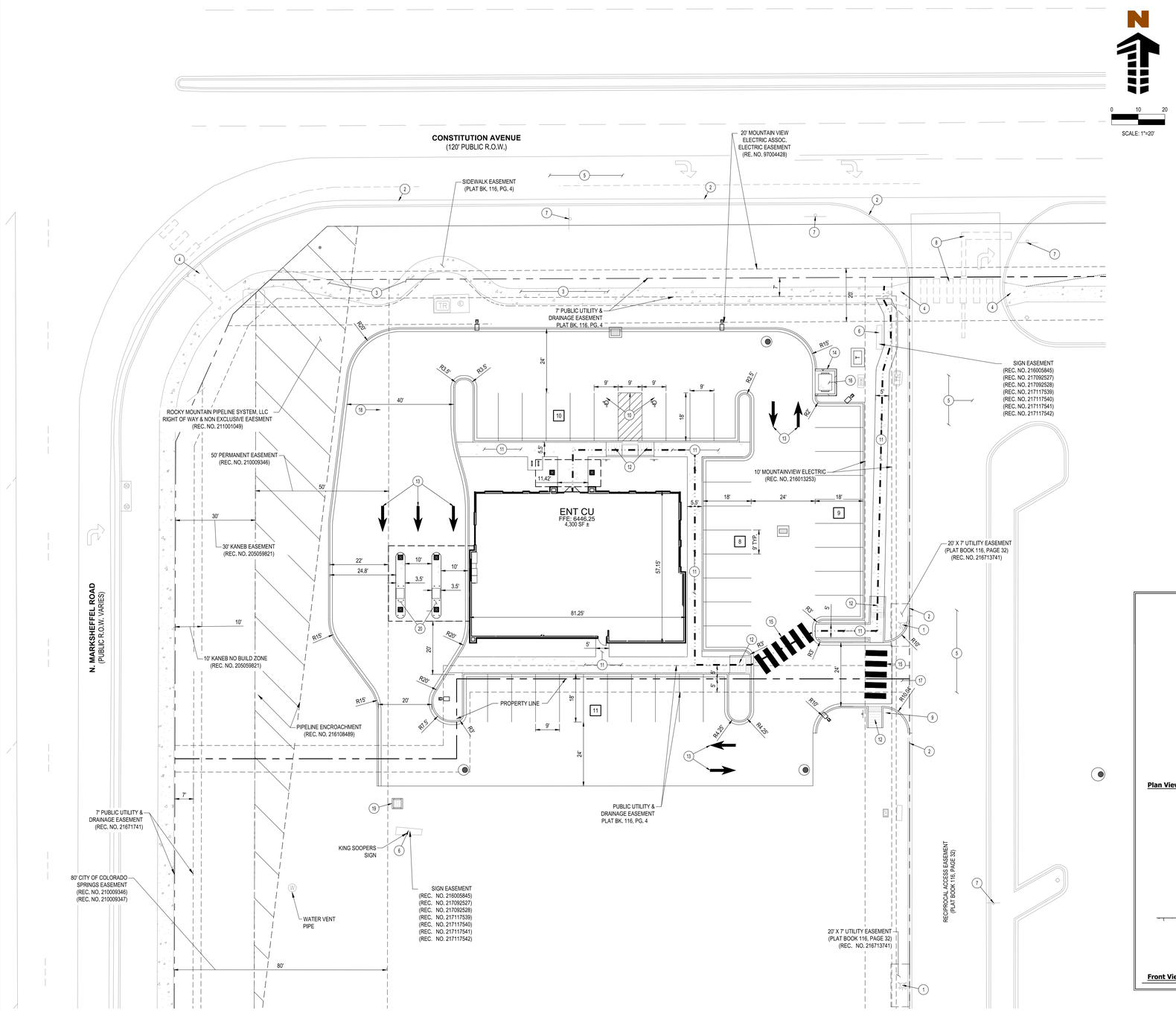
COVER SHEET

C0.0
SHEET 1 OF 7

ENT CREDIT UNION

SITE DEVELOPMENT PLAN

LOT 1, BLOCK 1, CLAREMONT RANCH FILING NO. 9B
PART OF THE NORTHWEST 1/4 OF SECTION 4, TOWNSHIP 14 SOUTH, RANGE 65 WEST OF THE 6TH P.M.,
CITY OF COLORADO SPRINGS, COUNTY OF EL PASO, STATE OF COLORADO



LEGEND

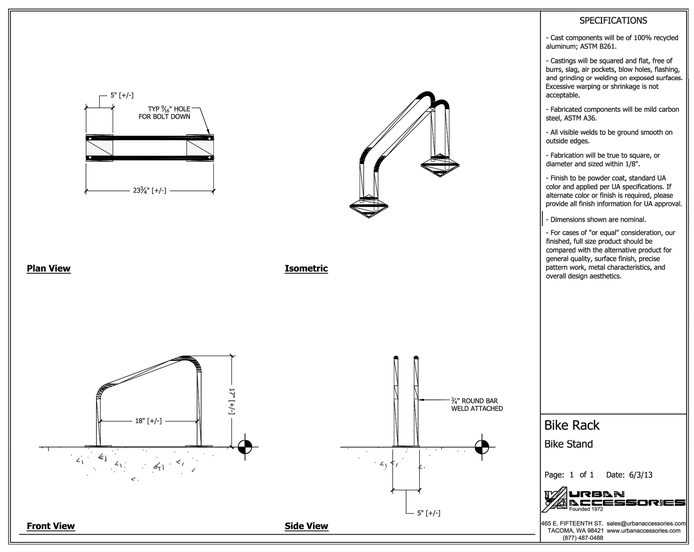
- PROPERTY BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- EASEMENT BOUNDARY LINE
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- PROPOSED CURB AND GUTTER
- PROPOSED ADA ROUTE
- PROPOSED NEW
- 6"STM — PROPOSED STORM SEWER
- EXISTING FIRE HYDRANT
- EXISTING SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- EXISTING ELECTRICAL VAULT
- EXISTING TRANSFORMER
- EXISTING ELECTRICAL CABINET
- EXISTING LIGHT POLE
- PROPOSED TRANSFORMER & PAD
- PROPOSED SITE LIGHTING
- PROPOSED MANHOLE COVER
- PROPOSED INLET
- PROPOSED MANHOLE
- TRAFFIC DIRECTION
- 1 — PARKING COUNT
- BIKE RACK

SCHEDULE

1. EXISTING FIRE HYDRANT TO REMAIN.
2. EXISTING VERTICAL CURB AND GUTTER TO REMAIN.
3. EXISTING CONCRETE SIDEWALK TO REMAIN.
4. EXISTING ADA RAMP TO REMAIN.
5. EXISTING ASPHALT PAVING TO REMAIN.
6. EXISTING MONUMENT SIGN TO REMAIN.
7. EXISTING SIGN TO REMAIN.
8. EXISTING CROSSWALK AND STOP BAR TO REMAIN.
9. PROPOSED R1-1 "STOP" SIGN.
10. PROPOSED 9'x18' ADA PARKING STALL WITH 9'x18' PAINTED ACCESS AISLE.
11. PROPOSED CONCRETE SIDEWALK (SIZE AS NOTED).
12. PROPOSED ADA RAMP
13. PROPOSED DIRECTIONAL STRIPING.
14. PROPOSED TRASH ENCLOSURE.
15. PROPOSED CROSSWALK.
16. PROPOSED HEAVY DUTY CONCRETE PAVING AT TRASH ENCLOSURE.
17. PROPOSED 6' CROSSPAN.
18. PROPOSED CAR STACKING FOR DRIVE-THRU.
19. TEMPORARY STORM STRUCTURE.
20. TURN-DOWN CONCRETE SLAB ISLANDS (NO CURB)

SITE NOTES

1. THIS SITE DEVELOPMENT SHALL CONFORM TO THE OPERATIONAL STANDARDS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE SECTION 6.2.7.
2. THIS SITE DEVELOPMENT SHALL CONFORM TO THE OVERHEAD SIGN STANDARDS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE SECTION 6.2.10.
3. THE PARTIES RESPONSIBLE FOR THIS PLAN HAVE FAMILIARIZED THEMSELVES WITH ALL CURRENT ACCESSIBILITY CRITERIA AND SPECIFICATIONS AND THE PROPOSED PLAN REFLECTS ALL SITE ELEMENTS REQUIRED BY THE APPLICABLE ADA DESIGN STANDARDS AND GUIDELINES AS PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE. APPROVAL OF THIS PLAN BY EL PASO COUNTY DOES NOT ASSURE COMPLIANCE WITH THE ADA OR ANY REGULATIONS OR GUIDELINES ENACTED OR PROMULGATED UNDER OR WITH RESPECT TO SUCH LAWS.



SPECIFICATIONS

- Cast components will be of 100% recycled aluminum; ASTM B261.
- Castings will be squared and flat, free of burrs, slag, air pockets, blow holes, flashing, and grinding or welding on exposed surfaces. Excessive warping or shrinkage is not acceptable.
- Fabricated components will be mild carbon steel, ASTM A36.
- All visible welds to be ground smooth on outside edges.
- Fabrication will be true to square, or diameter and sized within 1/8".
- Finish to be powder coat, standard UA color and applied per UA specifications. If alternate color or finish is required, please provide all finish information for UA approval.
- Dimensions shown are nominal.
- For cases of "or equal" consideration, our finished, full size product should be compared with the alternative product for general quality, surface finish, precise pattern work, metal characteristics, and overall design aesthetics.

Bike Rack
Bike Stand

Page: 1 of 1 Date: 6/3/13

URBAN ACCESSORIES Founded 1972
466 E. FIFTEENTH ST. sales@urbanaccessories.com
TACOMA, WA 98421 www.urbanaccessories.com
(877) 487-0488

BIKE RACK DETAIL
NTS

PCD FILE NO. PPR-18-012

Galloway
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Project No:	ECU007
Drawn By:	JSB
Checked By:	JRR
Date:	05/03/18

SITE PLAN

C1.0
SHEET 2 OF 7

ENT CREDIT UNION

SITE DEVELOPMENT PLAN

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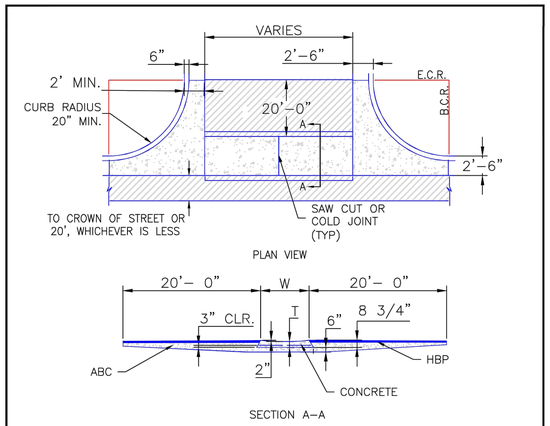


NOTES

1. W – WIDTH SHALL BE 6' FOR LOCAL, 8' FOR COLLECTORS, AND 10' FOR ARTERIAL ROADS.

2. T – SQUARED–OFF RETURN TO BE POURED MONOLITHICALLY, 8" PCC FOR LOCAL ROADS, 9" FOR COLLECTORS WITH 6x6 – 4.4 W.W.F. OR #4 REINFORCING BAR @ 18" EACH WAY.

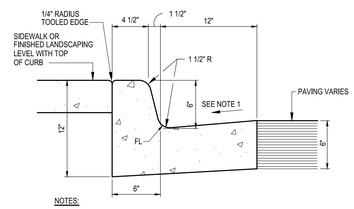
3. = 3" MINIMUM ASPHALT DEPTH (2 LIFTS).

4. DESIGN TO SPECIFY ELEVATIONS AT PI AND PCR.

SCALE: NOT TO SCALE

8/11/11 DATE APPROVED: André P. Brackin DEPARTMENT OF TRANSPORTATION	Typical Cross Pan Layout Detail Standard Drawing REVISION DATE: 12/8/15 FILE NAME: SD_2-26	EL PASO COUNTY DEPARTMENT OF TRANSPORTATION

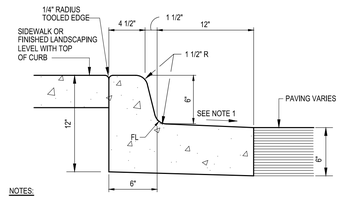
1 CROSS PAN DETAIL
NOT TO SCALE



NOTES:

1. GUTTER CROSS SLOPE SHALL BE 1/2 IN./FT. WHEN DRAINING AWAY FROM CURB AND 1 IN./FT. WHEN DRAINING TOWARD CURB.
2. BASE OF CURB SHALL REST ON COMPACTED FILL.
3. ALL EXPOSED CONCRETE SHALL HAVE A SACK FINISH.
4. CONTROL JOINTS SHALL BE INSTALLED AT 10 FOOT MAXIMUM INTERVALS AND AT THE END OF CURB RETURNS - SEE CURB CONTROL JOINT DETAIL.
5. EXPANSION JOINTS SHALL BE INSTALLED AT 500 FOOT MAXIMUM INTERVALS AND/OR TO MATCH LOCATION OF EXPANSION JOINTS IN PAVING - SEE CURB EXPANSION JOINT DETAIL.

2 CATCH CURB AND 1' WIDE GUTTER (PRIVATE)
SCALE: 1 1/2" =1'-0"



NOTES:

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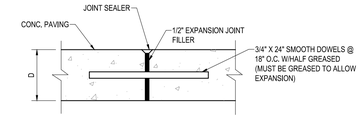
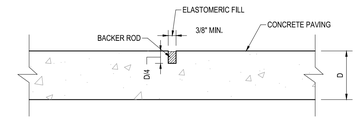
5. EXPANSION JOINTS SHALL BE INSTALLED AT 500 FOOT MAXIMUM INTERVALS AND/OR TO MATCH LOCATION OF EXPANSION JOINTS IN PAVING - SEE CURB EXPANSION JOINT DETAIL.

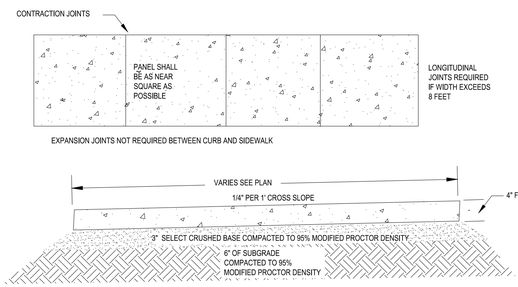
3 SPILL CURB AND 1' WIDE GUTTER (PRIVATE)
SCALE: 1 1/2" =1'-0"



4 EXPANSION JOINT DETAIL
NOT TO SCALE

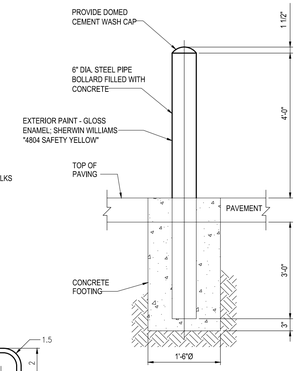


5 CONTROL JOINT DETAIL
NOT TO SCALE

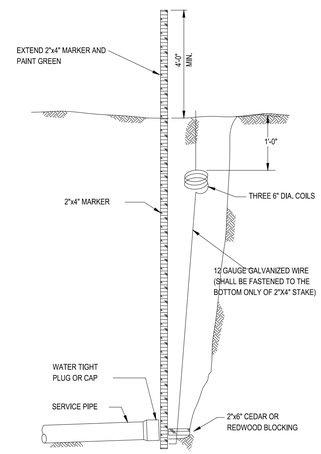


1. CONTRACTION JOINTS SHALL BE SPACED SO AS TO FORM AS NEAR SQUARE PANEL AS POSSIBLE. NO SINGLE PANEL SHALL EXCEED 8' ON ANY SIDE. CONTRACTION JOINTS SHALL BE 3/4" DEEP.
2. EXPANSION JOINTS OF 1/2" MASTIC MATERIAL SHALL BE PLACED AT THE FOLLOWING LOCATIONS:
   P.C.S AND P.T.S OF CURVES
   GRADE BREAKS
   AT DRIVEWAYS
   AT OTHER LOCATIONS AS SPECIFIED BY ENGINEER
3. **NO SIDEWALK SHALL BE PLACED WITHOUT A FINAL FORM INSPECTION BY THE ENGINEER**
4. CONSTRUCTION MATERIALS AND PROCEDURES SHALL CONFORM TO EXISTING CITY AND STATE STANDARD SPECIFICATIONS.

6 CONCRETE SIDEWALK DETAIL
NOT TO SCALE

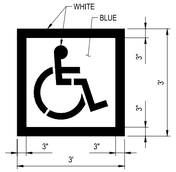


7 PIPE BOLLARD DETAIL (TRANSFORMER)
NOT TO SCALE

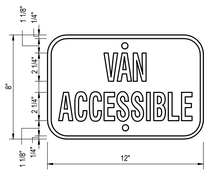


8 SERVICE MARKER
NOT TO SCALE

NOTE:
1. PROVIDE TWO COATS OF PAINT
2. BLUE BACKGROUND WITH WHITE SYMBOL

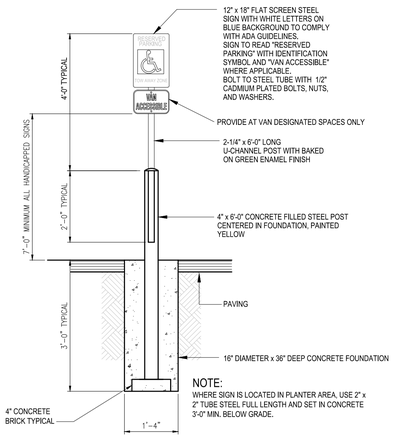


9 HANDICAPPED SYMBOL
SCALE: 1/2" = 1'-0"



MATERIAL: .060 ALUMINUM - BLUE BACKGROUND WITH WHITE COPY AND BORDER
1 1/2" RADIUS CORNERS WHITE 2 MOUNTING HOLES

10 'VAN ACCESSIBLE' SIGN DETAIL
SCALE: NOT TO SCALE

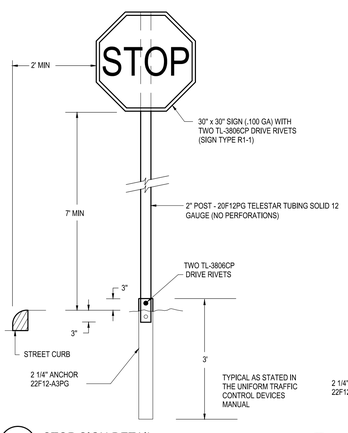


NOTE:
WHERE SIGN IS LOCATED IN PLANTER AREA, USE 2" x 2" TUBE STEEL FULL LENGTH AND SET IN CONCRETE 3'-0" MIN. BELOW GRADE.

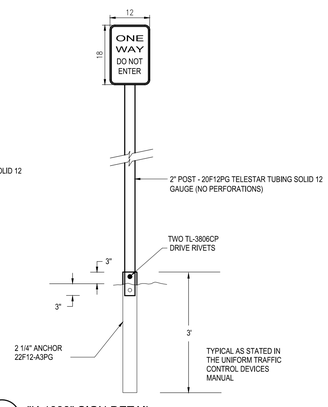
12 HANDICAP PARKING SIGN
NOT TO SCALE

MATERIAL: .060 ALUMINUM - WHITE BACKGROUND WITH BLUE COPY AND BORDER - SYMBOL HAS BLUE BACKGROUND, WHITE COPY WITH BLACK BORDER
1 1/2" RADIUS CORNERS WHITE 2 MOUNTING HOLES

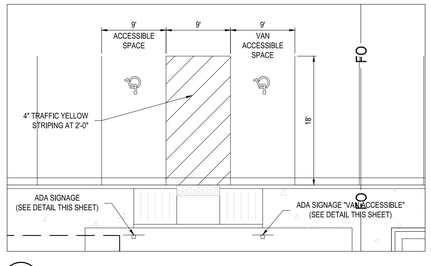
11 'PARKING ONLY' SIGN DETAIL
SCALE: NOT TO SCALE



13 STOP SIGN DETAIL
NOT TO SCALE

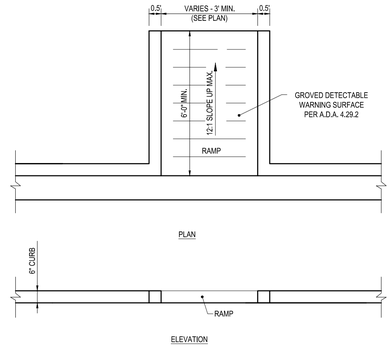


14 "K-1833" SIGN DETAIL
NOT TO SCALE



15 ADA PARKING DETAILS
SCALE: 1"=10'

*ADA PARKING SHALL COMPLY WITH LATEST LATEST ADA REQUIREMENTS.



16 ADA HANDICAP RAMP DETAIL
NOT TO SCALE

PCD FILE NO. PPR-18-012

Galloway
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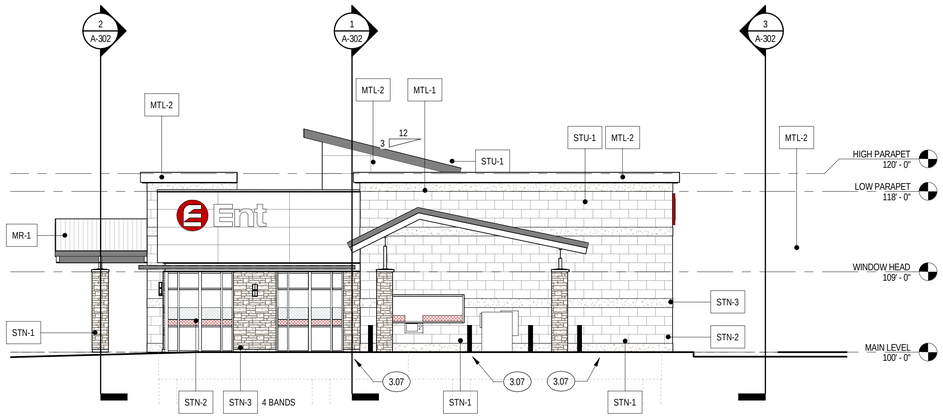
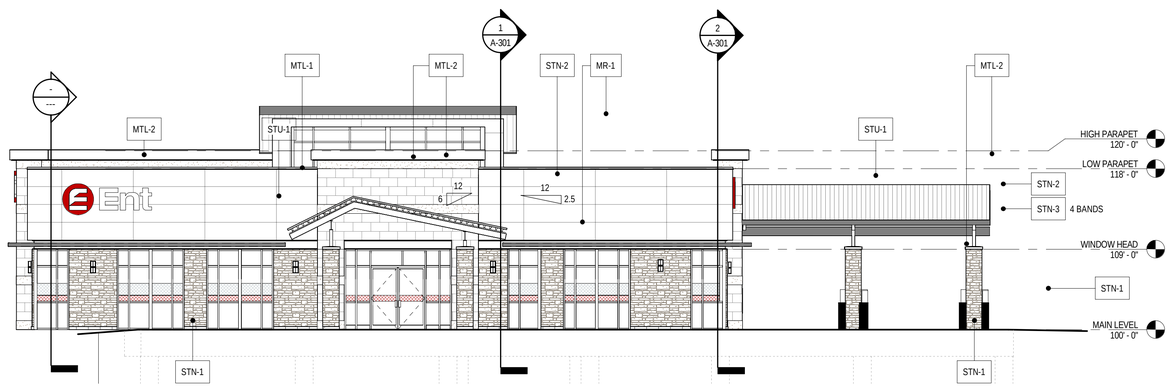
SITE DETAILS

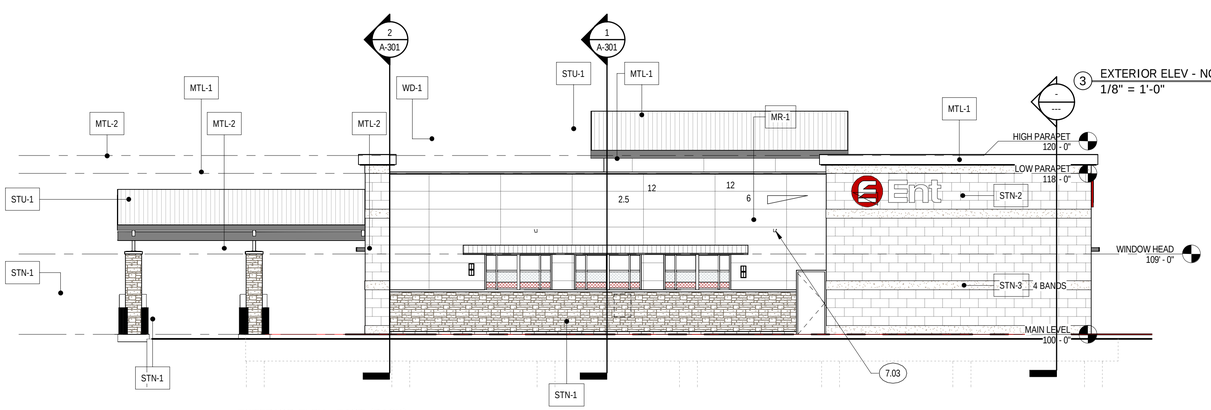
C1.1



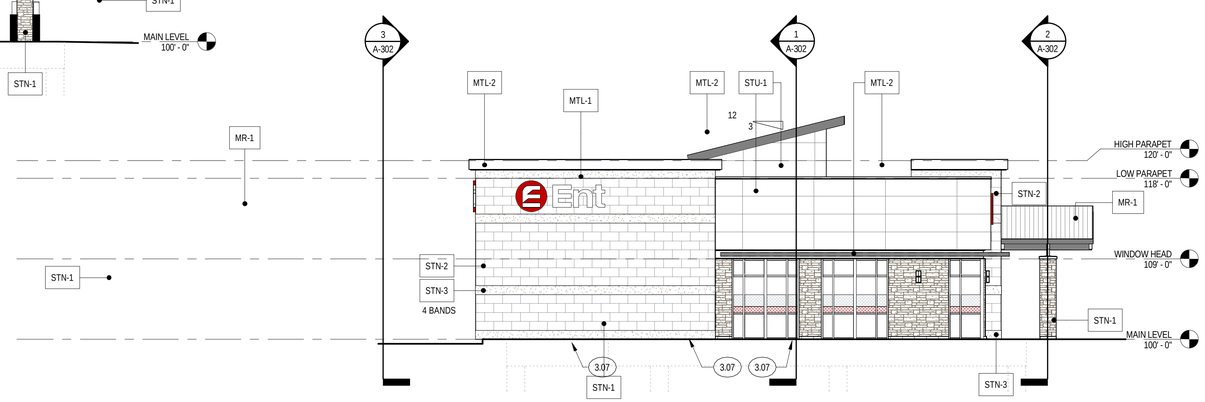
4 EXTERIOR ELEV - SOUTH
1/8" = 1'-0"



1 EXTERIOR ELEV - WEST (FRONT)
1/8" = 1'-0"



2 EXTERIOR ELEV - EAST (BACK)
1/8" = 1'-0"



3 EXTERIOR ELEV - NORTH
1/8" = 1'-0"

ELEVATION GENERAL NOTES

1. WINDOW GRAPHICS PROVIDED AND INSTALLED BY OTHERS

EXTERIOR MATERIAL LEGEND

STN-1: ARRISCRAFT STONE VENEER
ARRIS-STACK, COLOR: BEACH

STN-2: ARRISCRAFT STONE VENEER
THIN-CLAD RENAISSANCE, SMOOTH FACE
COLOR: GINGER

STN-3: ARRISCRAFT STONE VENEER
THIN-CLAD RENAISSANCE, ROUGH FACE
COLOR: GINGER

STN-4: ARRISCRAFT RENAISSANCE MASONRY UNIT
3 5/8" DEPTH STANDARD MASONRY UNIT
COLOR: GINGER

STU-1 (E-5): STANDARD STUCCO SYSTEM
COLOR TO MATCH DRYVIT #142 (SPECTRUM BROWN)

MTL-1: METAL FLASHING AND TRIM
COLOR PAINTED/FINISHED TO MATCH BENJAMIN MOORE AC-33

MTL-2: METAL FLASHING AND ACCENTS
COLOR PAINTED/FINISHED CHARCOAL GRAY

MR-1: STANDING SEAM METAL ROOF
CHARCOAL GREY

AG: APPLIED WINDOW GRAPHICS
TRANSPARENT WHITE AND RED

WD-1: WOOD CEILING BOARDS
BROWN RECLAIMED BOARDS

STOREFRONT COLOR: LIGHT BRONZE

GLASS: SOLAR GRAY (G-1)

SPANDREL PANELS: LIGHT BRONZE

KEYNOTES

3.07	CONCRETE ISLAND; TYPICAL CURB AND GUTTER; NO STRUCTURAL REINFORCEMENT
7.03	GUTTER

KEYS+LAUER ARCHITECTS
417 S. CASCADE
COLORADO SPRINGS, CO 80903
(719) 634 - 3751
www.KeysLauerArchitects.com

ENT CREDIT UNION
LOT 1 BLK 1 CLAREMONT RANCH FIL NO 9A

2477 MARKSHEFFEL ROAD
COLORADO SPRINGS, CO 80927

REVISIONS:

#	DESCRIPTION	DATE

PROJECT #: 1723
ISSUE DATE: 12/26/2017
ISSUED FOR: PERMIT & BID

DRAWN BY: LC
CHECKED BY: VL

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SHEET TITLE:
EXTERIOR ELEVATIONS

SHEET #:
A-201

SHEET 7 OF 7

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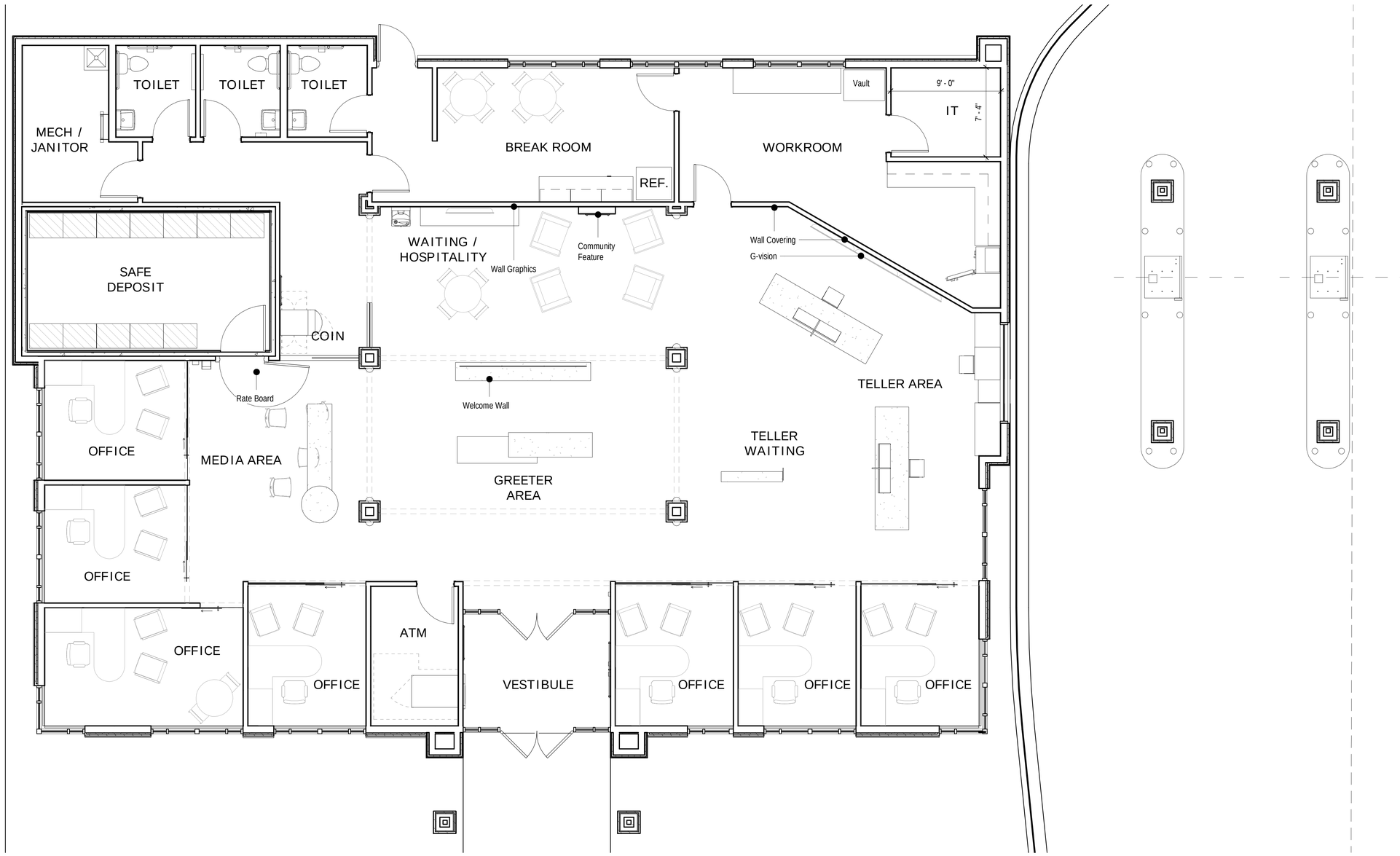

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PROJECT #: 1723

ISSUE DATE: 12/26/2017

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SHEET TITLE:

FLOOR PLAN

SHEET #:

SD-01

ENT CREDIT UNION

SITE DEVELOPMENT PLAN

LOT 1, BLOCK 1, CLAREMONT RANCH FILING NO. 9B

PART OF THE NORTHWEST 1/4 OF SECTION 4, TOWNSHIP 14 SOUTH, RANGE 66 WEST OF THE 6TH P.M.,

CITY OF COLORADO SPRINGS, COUNTY OF EL PASO, STATE OF COLORADO

PLANTING NOTES

GENERAL

1. ALL WORK SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES, STANDARDS, AND SPECIFICATIONS.
2. LANDSCAPE DESIGN IS DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN TAKEOFFS AND QUANTITY CALCULATIONS. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE LANDSCAPE LEGEND, THE PLANT QUANTITY AS SHOWN ON THE PLAN SHALL TAKE PRECEDENCE AND NOTIFY THE LANDSCAPE ARCHITECT OF THESE DISCREPANCIES. MINOR ADJUSTMENTS TO THE LANDSCAPE MATERIAL AND LOCATIONS MAY BE PROPOSED FOR CITY CONSIDERATION AT THE CONSTRUCTION DOCUMENT STAGE TO RESPOND TO MARKET AND FIELD CONDITIONS. HOWEVER, THERE SHALL BE NO REDUCTION IN THE NUMBER AND SIZE OF MATERIALS.
3. THE CONTRACTOR SHALL MAKE HIMSELF AWARE OF THE LOCATIONS OF EXISTING AND PROPOSED UTILITIES, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE UTILITIES AND/OR ANY INJURY TO ANY PERSON.
4. ALL UTILITY EASEMENTS SHALL REMAIN UNOBSTRUCTED AND FULLY ACCESSIBLE ALONG THEIR ENTIRE LENGTH FOR MAINTENANCE EQUIPMENT.
5. THE CONTRACTOR SHALL TAKE EXTREME CARE NOT TO DAMAGE ANY EXISTING PLANTS INDICATED AS "TO REMAIN". ANY SUCH PLANTS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED WITH THE SAME SPECIES, SIZE, AND QUANTITY AT THE CONTRACTOR'S OWN EXPENSE, AND AS ACCEPTABLE TO THE OWNER. REFER TO THE TREE PROTECTION NOTES ON THE PLANS (AS APPLICABLE).
6. LANDSCAPE CONTRACTOR SHALL EXAMINE THE SITE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND NOTIFY THE GENERAL CONTRACTOR IN WRITING OF UNSATISFACTORY CONDITIONS. IF SITE CONDITIONS OR PLANT AVAILABILITY REQUIRE CHANGES TO THE PLAN, THEN AN APPROVAL WILL BE OBTAINED FROM THE CITY. DO NOT PROCEED UNTIL CONDITIONS HAVE BEEN CORRECTED.
7. ALL CONSTRUCTION DEBRIS AND MATERIAL SHALL BE REMOVED AND CLEANED OUT PRIOR TO INSTALLATION OF TOPSOIL, TREES, SHRUBS, AND TURF.
8. FOR ALL INFORMATION ON SURFACE MATERIAL OF WALKS, DRIVES, AND PARKING LOTS, SEE THE SITE PLAN. SEE PHOTOMETRIC PLAN FOR FREE STANDING LIGHTING INFORMATION.
9. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT ONE WEEK PRIOR TO BEGINNING CONSTRUCTION.
10. WINTER WATERING SHALL BE AT THE EXPENSE OF THE CONTRACTOR UNTIL SUCH TIME AS FINAL ACCEPTANCE IS RECEIVED.
11. ALL LANDSCAPE CONSTRUCTION PRACTICES, WORKMANSHIP, AND ETHICS SHALL BE IN ACCORDANCE WITH INDUSTRY STANDARDS SET FORTH IN THE CONTRACTORS HANDBOOK PUBLISHED BY THE COLORADO LANDSCAPE CONTRACTORS ASSOCIATION.
12. LANDSCAPE AND IRRIGATION WORK SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF THE FINAL CERTIFICATE OF OCCUPANCY.

FINISH GRADING AND SOIL PREPARATION

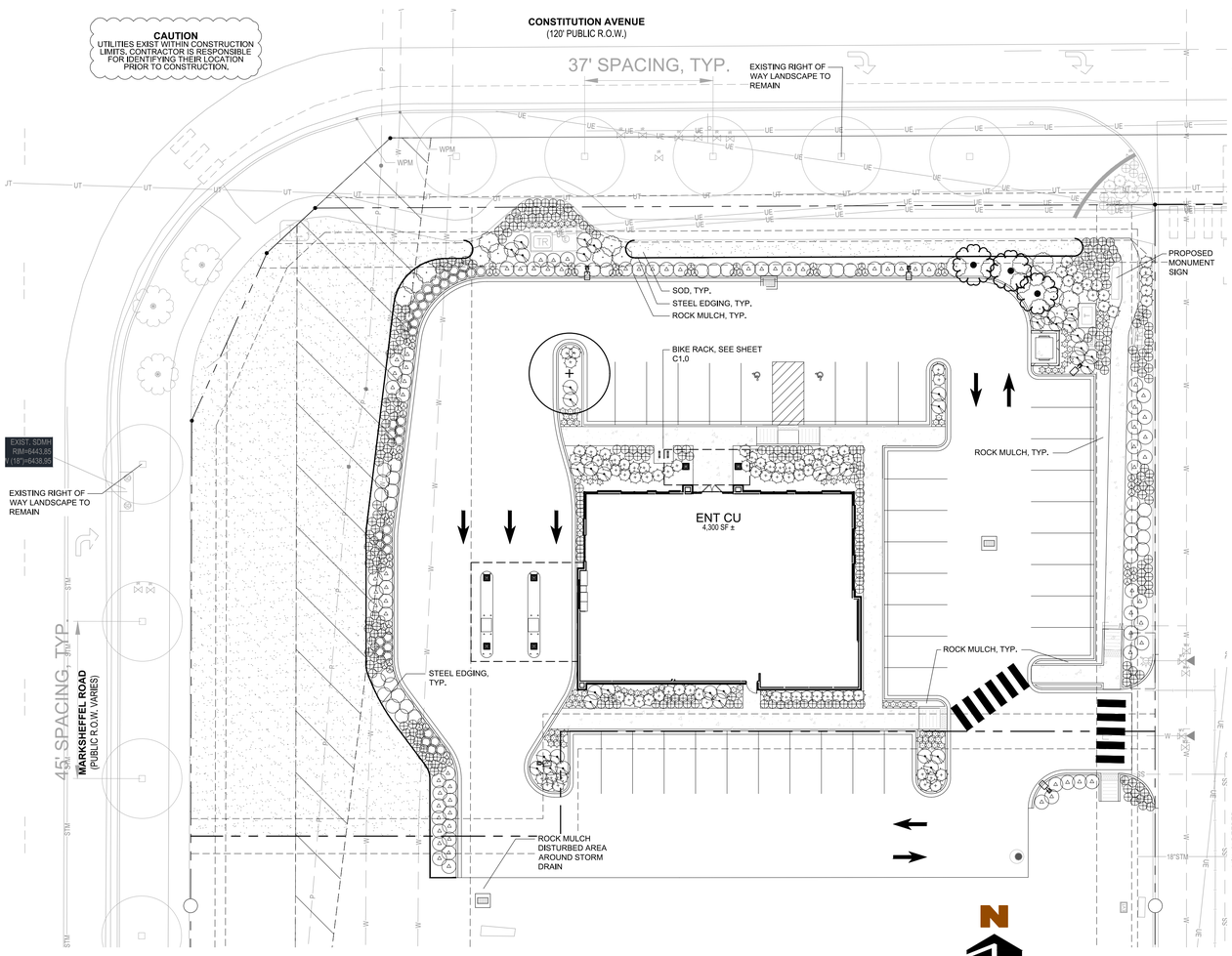
13. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN FINISH GRADES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GEOTECHNICAL REPORT, THE GRADING PLANS, THESE NOTES, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND OWNER.
14. AFTER FINISH GRADES HAVE BEEN ESTABLISHED, IT IS RECOMMENDED THAT THE CONTRACTOR SHALL HAVE SOIL SAMPLES TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY FOR THE FOLLOWING: GENERAL SOIL FERTILITY, PH, ORGANIC MATTER CONTENT, SALT (CEC), LIME, SODIUM ADSORPTION RATIO (SAR) AND BORON CONTENT. EACH SAMPLE SUBMITTED SHALL CONTAIN NO LESS THAN ONE QUART OF SOIL. CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES. THE SOIL REPORT PRODUCED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): GENERAL SOIL PREPARATION AND BACKFILL MIXES, PRE-PLANT FERTILIZER APPLICATIONS, AND ANY OTHER SOIL RELATED ISSUES. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE.
15. THE CONTRACTOR SHALL REQUIRE INSTALLATION OF SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT FOR THE THE OWNER/OWNER'S REPRESENTATIVE CONSIDERATION.
16. AT A MINIMUM, ALL TOPSOIL SHALL BE AMENDED WITH NITROGEN STABILIZED ORGANIC AMENDMENT COMPOST AT A RATE OF 5.0 CUBIC YARDS AND AMMONIUM PHOSPHATE 16-20-0 AT A RATE OF 15 POUNDS PER THOUSAND SQUARE FEET OF LANDSCAPE AREA. COMPOST SHALL BE MECHANICALLY INTEGRATED INTO THE TOP 6" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING. GROUND COVER & PERENNIAL BED AREAS SHALL BE AMENDED AT A RATE OF 8 CUBIC FEET PER THOUSAND SQUARE FEET OF NITROGEN STABILIZED ORGANIC AMENDMENT AND 10 LBS. OF 12-12-12 FERTILIZER PER CU. YD., ROTOTILLED TO A DEPTH OF 8". NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE USED FOR ORGANIC AMENDMENTS.

PLANTING

16. ALL DECIDUOUS TREES SHALL HAVE FULL, WELL-SHAPED HEADS/ALL EVERGREENS SHALL BE UNSHEARED AND FULL TO THE GROUND; UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.
17. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE, AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTABLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, EVEN IF DETERMINED TO STILL BE ALIVE, SHALL NOT BE ACCEPTED. THE LANDSCAPE ARCHITECT SHALL BE THE SOLE JUDGE AS TO THE ACCEPTABILITY OF PLANT MATERIAL.
18. ALL TREES SHALL BE GUYED AND WOOD STAKED AS PER DETAILS. NO 'T-STAKES' SHALL BE USED FOR TREES.
19. ALL PLANT MATERIALS SHALL BE TRUE TO TYPE, SIZE, SPECIES, QUALITY, AND FREE OF INJURY. BROKEN ROOT BALLS, PESTS, AND DISEASES, AS WELL AS CONFORM TO THE MINIMUM REQUIREMENTS DESCRIBED IN THE "AMERICAN STANDARD FOR NURSERY STOCK". FOLLOW GREENCO TREE PLANTING RECOMMENDATIONS FOR MINIMUM QUALITY REQUIREMENTS FOR TREES.
20. ALL TREE AND SHRUB BED LOCATIONS ARE TO BE STAKED OUT ON SITE FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
21. ALL TREES PLANTED ADJACENT TO PUBLIC AND/OR PEDESTRIAN WALKWAYS SHALL BE PRUNED CLEAR OF ALL BRANCHES BETWEEN GROUND AND A HEIGHT OF EIGHT (8) FEET FOR THAT PORTION OF THE PLAN LOCATED OVER THE SIDEWALK AND/OR ROAD.
22. IF TURF IS TO BE USED, IT IS RECOMMENDED THROUGH GREEN VALLEY TURF COMPANY, 13159 N. US HIGHWAY 85, LITTLETON, CO 80125, (303) 798-4764, RTF TALL FESCUE HAS BEEN APPROVED IN MANY JURISDICTIONS AS A LOW HYDROZONE PLANT MATERIAL. INSTALL AND MAINTAIN IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
23. ALL PLANT MATERIAL SHALL NOT BE PLANTED PRIOR TO INSTALLATION OF TOPSOIL.
24. ALL PLANT BEDS SHALL BE CONTAINED WITH STEEL EDGER. STEEL EDGER IS NOT REQUIRED ALONG CURBS, WALKS OR BUILDING FOUNDATIONS. ALL EDGING SHALL OVERLAP AT JOINTS A MINIMUM OF 6-INCHES, AND SHALL BE FASTENED WITH A MINIMUM OF 4 PINS PER EACH 10 FOOT SECTION. THE TOP OF ALL EDGING MATERIAL SHALL BE A ROLLED TOP AND 1/2 INCH ABOVE THE FINISHED GRADE OF ADJACENT LAWN OR MULCH AREAS. COLOR: GREEN.
25. THE DEVELOPER, HIS SUCCESSOR, OR ASSIGNEE SHALL BE RESPONSIBLE FOR ESTABLISHING AND CONTINUING A REGULAR PROGRAM OF MAINTENANCE FOR ALL LANDSCAPED AREAS. SEE LANDSCAPE GUARANTEE AND MAINTENANCE NOTE.
26. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF ALL FIRE HYDRANTS.
27. LANDSCAPE CONTRACTOR TO SUBMIT SAMPLES OF MISCELLANEOUS LANDSCAPING MATERIALS TO THE LANDSCAPE ARCHITECTS AND OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION, IE.; MULCH, EDGER, LANDSCAPE FABRIC, ETC.

MULCHING

28. ALL MULCH IS RECOMMENDED THROUGH ROCKY MOUNTAIN MATERIALS AND ASPHALT INC., 1910 RAND AVE., COLORADO SPRINGS, CO 80905, (719) 473-3100.
29. AFTER ALL PLANTING IS COMPLETE, THE CONTRACTOR SHALL INSTALL A MINIMUM 4" THICK LAYER OF MULCH AS SPECIFIED IN THE PLANTING LEGEND. INSTALL A 4" THICK RING OF DOUBLE SHREDDED CEDAR BARK MULCH AROUND ALL PLANT MATERIAL IN ROCK MULCH BEDS WHERE LANDSCAPING IS SHOWN ON THE PLANS. WOOD MULCH RING SIZE SHALL BE 1.5X THE CONTAINER SIZE OF THE SHRUBS, PERENNIALS, AND ORNAMENTAL GRASSES. TREE RING SIZE SHALL BE GREEN INDUSTRIES OF COLORADO INDUSTRY STANDARD WIDTH.
30. ALL MULCH SHALL BE HARVESTED IN A SUSTAINABLE MANNER FROM A LOCAL SOURCE.
31. INSTALL DEWITT PRO-5 WEED BARRIER FABRIC UNDER ALL ROCK MULCH SHRUB BEDS SPECIFIED ON THE PLANS ONLY. NO LANDSCAPE FABRIC SHALL BE USED IN WOOD MULCH AREAS. NO PLASTIC WEED BARRIERS SHALL BE SPECIFIED.
32. ABSOLUTELY NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON THE PROJECT AFTER MULCH HAS BEEN INSTALLED.
33. ALL PLANTING AREAS WITH LESS THAN A 4:1 GRADIENT SHALL RECEIVE A LAYER OF MULCH, TYPE AND DEPTH PER PLANS. SUBMIT 1 CUBIC FOOT SAMPLE OF MULCH (ONE SAMPLE PER TYPE) TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. THE MULCH SHALL BE SPREAD EVENLY THROUGHOUT ALL PLANTING AREAS EXCEPT SLOPES 4:1 OR STEEPER, OR AS OTHERWISE DENOTED ON THE PLAN. ABSOLUTELY NO EXPOSED GROUND SHALL REMAIN IN AREAS TO RECEIVE MULCH AFTER MULCH HAS BEEN INSTALLED.
34. ALL PLANTING AREAS ON SLOPES OVER 4:1 SHALL RECEIVE COCONUT FIBER EROSION CONTROL NETTING FROM ROLLS. NETTING SHALL BE #CT-125, AS MANUFACTURED BY NORTH AMERICAN GREEN (OR EQUAL). INSTALL AND STAKE PER MANUFACTURER'S SPECIFICATIONS. SEE ALSO THE CIVIL ENGINEER'S EROSION CONTROL PLAN.



0 10 20

SCALE: 1"=20'

PLANTING LEGEND

SYMBOL	LEGEND ABBREV.	BOTANIC NAME	COMMON NAME	QUANTITY	MATURE SIZE	WATER USE	PLANTING SIZE
OVERSTORY DECIDUOUS TREES							
	GLTR	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER'	SHADEMASTER LOCUST	1	50' X 35'	LOW	2.5" CAL. B&B
ORNAMENTAL DECIDUOUS TREES							
	MASP	MALUS SPECIOSA	SPRING SNOW CRABAPPLE	3	25' X 20'	LOW	2.5" CAL. B&B
DECIDUOUS SHRUBS							
	PEAT	PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	40	4' X 4'	LOW	5 GALLON 18"-24"
	RHAR	RHUS AROMATICA 'GRO-LOW'	GRO-LOW SUMAC	20	2' X 6'	LOW	5 GALLON 12"-15"
	RHTR	RHUS TRILOBATA	THREE LEAF SUMAC	34	4' X 4'	LOW	5 GALLON 18"-24"
	RIAL	RIBES ALPINUM	ALPINE CURRANT	74	4' X 4'	LOW	5 GALLON 18"-24"
	ROSA	ROSA 'RADCON'	PINK KNOCK OUT ROSE	40	4' X 3'	LOW	5 GALLON 18"-24"
ORNAMENTAL GRASSES							
	CAAC	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	FEATHER REED GRASS	98	4.5' X 2'	LOW	1 GALLON
	HESE	HELICTOTRICHON SEMPERVIRENS	BLUE AVENA GRASS	280	2.5' X 2.5'	LOW	1 GALLON
	MIGR	MISCANTHUS SINENSUS 'GRAZIELLA'	GRAZIELLA MAIDEN GRASS	61	4.5' X 3'	LOW	1 GALLON
PERENNIALS							
	SAPA	SALVIA PACHYPHYLLA	MOJAVE SAGE	91	3' X 3'	LOW	1 GALLON
SEED AND MULCH							
	SOD	RTF SOD	SOD	10,231 SF	---	MODERATE	---
	MULCH	2" - 4" DIA. MULTI - CANYON GRANITE ROCK MULCH W/ SHREDDED BARK MULCH RING, SEE MULCH NOTES	ROCK MULCH	6,640 SF	---	---	---
	STEEL EDGING			360 LF	---	---	---

LANDSCAPE GUARANTEE AND MAINTENANCE

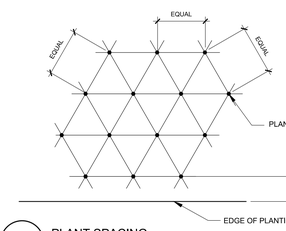
1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, SOD, SEEDED AREAS, AND IRRIGATION SYSTEMS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S ACCEPTANCE. THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE, ANY PLANTS WHICH DIE IN THAT TIME, OR REPAIR ANY PORTIONS OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY.
2. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE IN A NEAT, CLEAN, AND HEALTHY CONDITION FOR A PERIOD OF 90 DAYS. THIS SHALL INCLUDE PROPER PRUNING, MOWING AND AERATION OF LAWNS, WEEDING, REPLACEMENT OF MULCH, REMOVAL OF LITTER, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. IRRIGATION SHALL BE MAINTAINED IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON AND TO MAXIMIZE WATER CONSERVATION. IF SITE OPENS DURING WINTER, TO AVOID FREEZE DAMAGE ON PLANTINGS, THE 90 DAYS SHOULD BEGIN AFTER ACCEPTANCE OF THE WORK.
3. DURING THE LANDSCAPE MAINTENANCE PERIOD, THE LANDSCAPE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM STRUCTURES IN ALL LANDSCAPE AREAS AT THE MINIMUM SLOPE SPECIFIED IN THE GEOTECHNICAL REPORT. LANDSCAPE AREAS WHICH SETTLE AND CREATE THE POTENTIAL FOR PONDING SHALL BE REPAIRED TO ELIMINATE PONDING POTENTIAL AND BLEND IN WITH THE SURROUNDING GRADES. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GEOTECHNICAL REPORT, THE GRADING PLANS, THESE NOTES, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND OWNER.

UTILITY NOTES

1. THE LANDSCAPE CONTRACTOR IS REQUIRED TO CONTACT THE COUNTY PUBLIC WORKS DEPARTMENT, AND ANY OTHER PUBLIC OR PRIVATE AGENCY NECESSARY FOR UTILITY LOCATION PRIOR TO ANY CONSTRUCTION.
2. THIS DRAWING IS A PART OF A COMPLETE SET OF BID DOCUMENTS, SPECIFICATIONS, ADDITIONAL DRAWINGS, AND EXHIBITS. UNDER NO CIRCUMSTANCES SHOULD THESE PLANS BE USED FOR CONSTRUCTION PURPOSES WITHOUT EXAMINING ACTUAL LOCATIONS OF UTILITIES ON SITE, AND REVIEWING ALL RELATED DOCUMENTS.
3. THE LOCATION OF THE ALL UNDERGROUND UTILITIES ARE LOCATED ON THE ENGINEERING DRAWINGS FOR THIS PROJECT. THE MOST CURRENT REVISION IS HERE IN MADE PART OF THIS DOCUMENT. UNDERGROUND UTILITIES EXIST THROUGHOUT THIS SITE AND MUST BE LOCATED PRIOR TO ANY CONSTRUCTION ACTIVITY. WHERE UNDERGROUND UTILITIES EXIST, FIELD ADJUSTMENT MAY BE NECESSARY AND MUST BE APPROVED BY A REPRESENTATIVE OF THE OWNER. NEITHER THE OWNER NOR THE LANDSCAPE ARCHITECT ASSUMES ANY RESPONSIBILITY WHATSOEVER, IN RESPECT TO THE CONTRACTORS ACCURACY IN LOCATING THE INDICATED PLANT MATERIAL, AND UNDER NO CIRCUMSTANCES SHOULD THESE PLANS BE USED WITHOUT REFERENCING THE ABOVE MENTIONED DOCUMENTS.

IRRIGATION CONCEPT

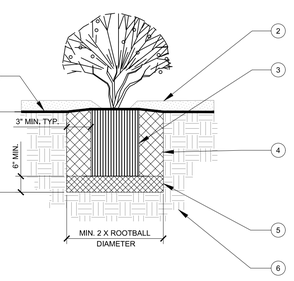
1. AN AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED AND OPERATIONAL BY THE TIME OF FINAL INSPECTION. THE ENTIRE IRRIGATION SYSTEM SHALL BE INSTALLED BY A QUALIFIED IRRIGATION CONTRACTOR.
2. THE IRRIGATION SYSTEM SHALL TAP OFF BUILDING'S POTABLE WATER SERVICE AFTER THE WATER METER, BEFORE BUILDING'S DOUBLE CHECK VALVE.
3. THE IRRIGATION SYSTEM WILL OPERATE ON POTABLE WATER, AND THE SYSTEM WILL HAVE APPROPRIATE BACKFLOW PREVENTION DEVICES INSTALLED TO PREVENT CONTAMINATION OF THE POTABLE SOURCE.
4. ALL NON-TURF/SEED PLANTED AREAS WILL BE DRIP IRRIGATED. TURF SOD/SEED SHALL RECEIVE POP-UP SPRAY IRRIGATION FOR HEAD TO HEAD COVERAGE.
5. ALL PLANTS SHARING SIMILAR HYDROZONE CHARACTERISTICS SHALL BE PLACED ON A VALVE DEDICATED TO PROVIDE THE NECESSARY WATER REQUIREMENTS SPECIFIC TO THAT HYDROZONE.
6. THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED, TO THE MAXIMUM EXTENT POSSIBLE, TO CONSERVE WATER BY USING THE FOLLOWING DEVICES AND SYSTEMS: MATCHED PRECIPITATION RATE TECHNOLOGY ON ROTOR AND SPRAY HEADS (WHEREVER POSSIBLE), RAIN SENSORS, AND SMART MULTI-PROGRAM COMPUTERIZED IRRIGATION CONTROLLERS FEATURING SENSORY INPUT CAPABILITIES.



NOTE: ALL PLANTS SHALL BE PLANTED AT EQUAL TRIANGULAR SPACING (EXCEPT WHERE SHOWN ON PLANS AS INFORMAL GROUPINGS). REFER TO PLANT LEGEND FOR SPACING DISTANCE BETWEEN PLANTS.

1 PLANT SPACING

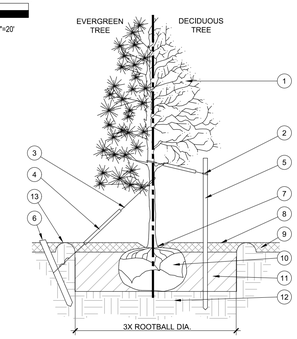
SCALE: NTS



1. FINISH GRADE IN PLANTING AREA.
2. MULCH, TYPE AND DEPTH PER PLANS. PLACE NO MORE THAN 1" OF MULCH WITHIN 6" OF PLANT CENTER.
3. PLANT ROOT BALL. SET TOP ROOTBALL 2" ABOVE ADJECENT GRADE. IN BERMED AREAS SET ROOTBALL 2" ABOVE LOWER ADJECENT GRADE - INSTALL WATER RING (2 - 3" HT.)
4. BACKFILL MIX (PER PLANTING SPECIFICATIONS). AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS. JET BACKFILL WITH WATER TO ELIMINATE VOIDS.
5. COMPACTED BACKFILL MIX (75%).
6. UNDISTURBED NATIVE SOIL.

2 SHRUB AND PERENNIAL DETAIL

SCALE: NOT TO SCALE

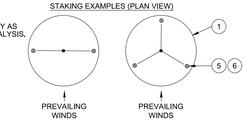


1. TREE CANOPY.
2. NYLON TREE STRAPS AT ENDS OF WIRES - SECURE TO STAKE OR DEADMEN WITH NAILS.
3. 12 GAUGE GALVANIZED WIRE. SECURE TO TRUNK JUST ABOVE LOWEST MAJOR BRANCHES.
4. 24" X 3/4" P.V.C. MARKERS OVER WIRES.
5. PRESSURE-TREATED WOOD STAKE, 2" DIA. EXTEND STAKES 12" MIN. INTO UNDISTURBED SOIL.
6. PRESSURE-TREATED WOOD DEADMEN, TWO PER TREE (MIN.). BURY OUTSIDE OF PLANTING PIT AND 18" MIN. INTO UNDISTURBED SOIL.
7. TRUNK FLARE.
8. WOOD MULCH TREE RING 3' DIA MIN. TYPE AND DEPTH PER PLANS. DO NOT PLACE MULCH WITHIN 3" OF TRUNK.
9. FINISH GRADE.
10. ROOT BALL-SEE NOTE 3. THIS DETAIL
11. BACKFILL. AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS.
12. UNDISTURBED NATIVE SOIL.
13. 4" HIGH EARTHEN WATERING BASIN.

NOTES:

1. SCARIFY SIDES OF PLANTING PIT PRIOR TO SETTING TREE.
2. REMOVE EXCESS SOIL APPLIED ON TOP OF THE ROOTBALL THAT COVERS THE ROOT FLARE. THE PLANTING HOLE DEPTH SHALL BE SUCH THAT THE ROOTBALL RESTS ON UNDISTURBED SOIL, AND THE ROOT FLARE IS 3"-5" ABOVE FINISH GRADE.
3. CUT OFF BOTTOM 1/3 OF WIRE BASKET BEFORE PLACING TREE IN HOLE. CUT OFF AND REMOVE REMAINDER OF BASKET AFTER TREE IS SET IN HOLE. REMOVE ALL NYLON TIES, TWINE, ROPE, AND OTHER PACKING MATERIAL. REMOVE ALL BURLAP FROM AROUND ROOTBALL.
4. TREE WRAP IS NOT TO BE USED ON ANY NEW PLANTINGS, EXCEPT IN LATE FALL PLANTING SITUATIONS, AND ONLY THEN AFTER CONSULTATION WITH THE LANDSCAPE ARCHITECT. WHEN WRAPPING TREE, WRAP FROM TRUNK FLARE TO LOWEST MAJOR BRANCH.
5. REMOVE ALL NURSERY STAKES AFTER PLANTING.
6. FOR TREES OVER 3" CALIPER, USE THREE STAKES OR DEADMEN (AS APPROPRIATE), SPACED EVENLY AROUND TREE.

STAKING EXAMPLES (PLAN VIEW)



3 TREE PLANTING DETAIL

SCALE: NOT TO SCALE

Galloway
Planning. Architecture. Engineering.
6162 S. Willow Drive, Suite 320
Greenwood Village, CO 80111
303.770.8884 O
www.gallowayUS.com

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ENT CREDIT UNION
SITE DEVELOPMENT PLAN
LOT 1, BLOCK 1,
CLAREMONT RANCH FILING NO. 9B

MARKSHEFFEL RD. AND CONSTITUTION AVE
COLORADO SPRINGS, COLORADO

#	Date	Issue / Description	Init.

Project No:	ECU007
Drawn By:	DTT
Checked By:	
Date:	03/05/18

LANDSCAPE PLAN

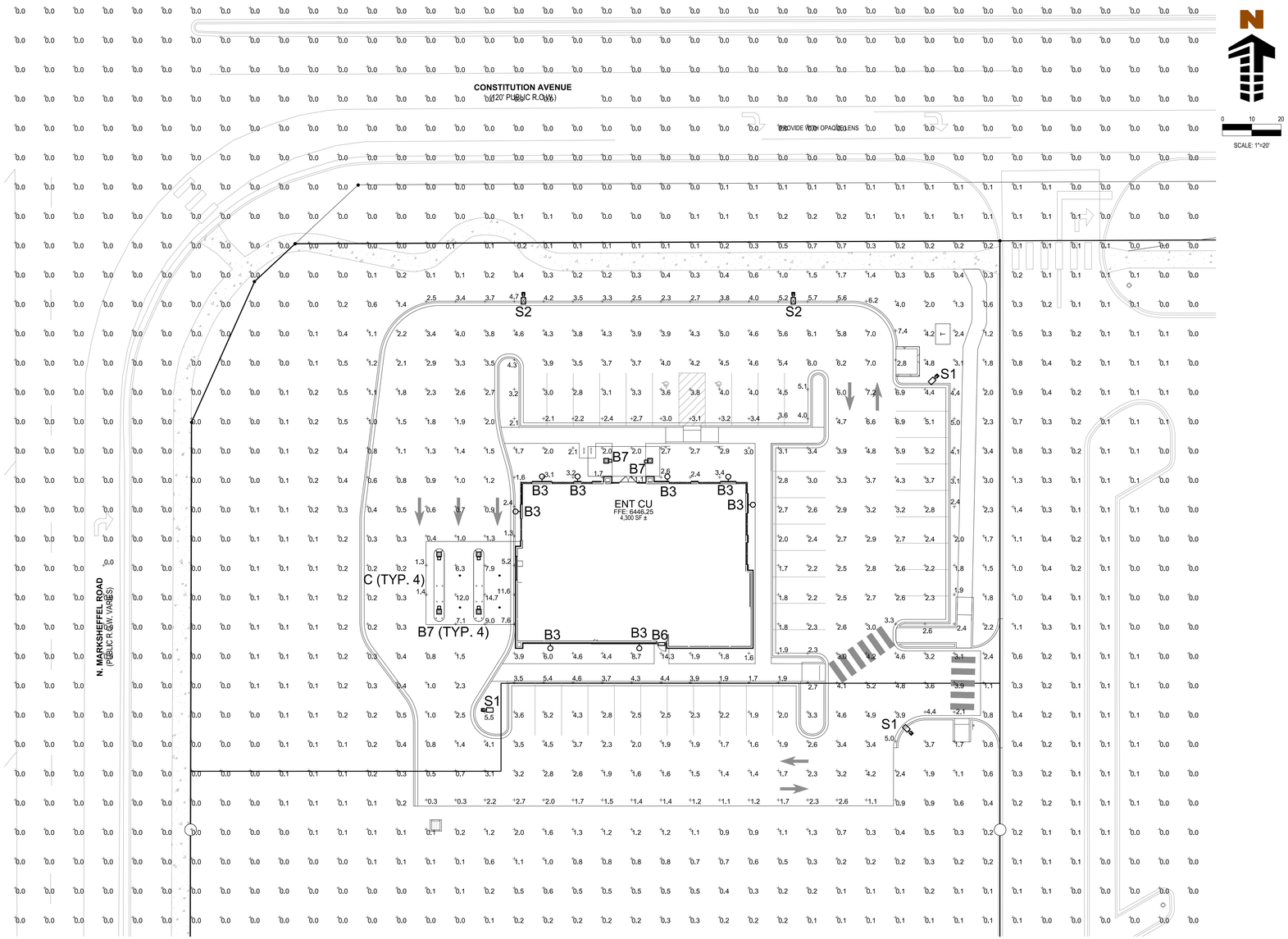
L1.0

SHEET 6 OF 7

ENT CREDIT UNION

SITE DEVELOPMENT PLAN

LOT 1, BLOCK 1, CLAREMONT RANCH FILING NO. 9B
PART OF THE NORTHWEST 1/4 OF SECTION 4, TOWNSHIP 14 SOUTH, RANGE 65 WEST OF THE 6TH P.M.,
CITY OF COLORADO SPRINGS, COUNTY OF EL PASO, STATE OF COLORADO



1 PHOTOMETRIC SITE PLAN
SCALE: 1"=20'-0"

NOTES:

PLAN WAS BASED ON THE INFORMATION PROVIDED. ALL DIMENSIONS, LUMINAIRE LOCATIONS SHOWN REPRESENT RECOMMENDED POSITIONS. THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING OR FUTURE FIELD CONDITIONS.

THE STUDY IS BASED ON REQUESTED ILLUMINATION LEVELS, LUMINAIRE LOCATIONS, OR ADDITIONAL CRITERIA BY THE AUTHORITIES HAVING JURISDICTION.

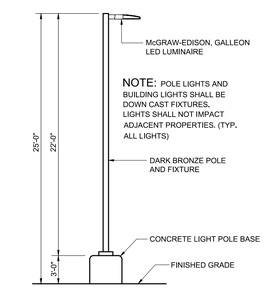
THE CALCULATED PHOTOMETRIC LEVELS MAY OR MAY NOT MEET CERTAIN STANDARDS OR RECOMMENDED PRACTICES OF IESNA.

THE PHOTOMETRIC PLAN REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS UTILIZING CURRENT INDUSTRY STANDARD LAMP RATINGS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY (IES) APPROVED METHODS. LABORATORY TESTS ARE MADE UNDER OPTIMUM CONDITION, WITH LAMP OUTPUT AT RATED VALUE, AND IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS.

ACTUAL ILLUMINANCE LEVELS MAY DIFFER DUE TO VARIABLE FIELD CONDITIONS SUCH AS (BUT NOT LIMITED TO): VARIANCE IN LAMP LUMEN OUTPUT; LAMP TILT FACTOR; BALLAST WATTAGE OUTPUT; LINE VOLTAGE AT BALLAST; REFLECTOR SPECULARITY; LAMP LUMEN DEPRECIATION; AND LUMINAIRE DIRT DEPRECIATION.

THE 25'-0" MOUNTING HEIGHT IS THE ACTUAL ASSEMBLY (POLE, BASE, AND FIXTURE) AND MAY DIFFER FROM THE FROM THE LUMINAIRE'S LUMINOUS APERTURE.

THIS PLAN IS FOR RELATIVE LAYOUT AND SCOPE OF WORK PURPOSES ONLY. REFER TO SITE PLAN PREPARED BY LOCAL CONSULTANT FOR RELATIONSHIP OF THESE LUMINAIRES AND THEIR LOCATIONS TO EXISTING STRUCTURES AND REFERENCE.



2 AREA LIGHT DETAIL
SCALE: NOT TO SCALE

LUMINAIRE SCHEDULE

SYMBOL	QTY	LABEL	ARRANGE	MOUNTING	HEIGHT	LLF	SOURCE	MODEL NUMBER	DESCRIPTION	LUMENS	WATTS
	3	S1	SINGLE	POLE	25'-0"	1.0	LED	GLEON-AF-04-LED-E1-T4FT-BZ	EATON LIGHTING, LED AREA LUMINAIRE, TYPE IV DISTRIBUTION, BRONZE COLOR	24156	225
	2	S2	SINGLE	POLE	25'-0"	1.0	LED	GLEON-AF-04-LED-E1-SL4-HSS-BZ	EATON LIGHTING, LED AREA LUMINAIRE, TYPE IV WITH SPILL CONTROL WITH REAR SHIELD, BRONZE COLOR	19488	225
	8	B3	SINGLE	WALL	8'-0"	1.0	LED	8300K-49688OZL 16	KICHLER LIGHTING, TOMAN 1 LIGHT LED OUTDOOR WALL OZ, 800 LUMENS, OPAQUE CYLINDER, OLDE BRONZE COLOR	800	9
	1	B6	SINGLE	WALL	8'-0"	1.0	LED	WD14D-4-E35-60L-4K-VOLT-DB	KIM LIGHTING, WALL DIRECTOR FULL CUT-OFF LED LUMINAIRE, 60 LED'S, 4000K CCT, DARK BRONZE COLOR	4713	63
	6	B7	SINGLE	WALL	10'-0"	1.0	LED	232-08-831-N-350	DELTA LIGHTING, KIX S UPLIGHT, DARK GREY COLOR, 350mA DRIVER, 3000K CCT	87	2
	4	C	SINGLE	SOFFIT	14'-0"	1.0	LED	LC6LED120-6LCLED735K8	PRESCOLITE, 6" LED DOWNLIGHT, FULLY RECESSED, 1800 LUMENS, WHITE TRIM	1797	26

NOTES:
1. VERIFY EXACT FIXTURES CATALOG NUMBER, FINISH, VOLTAGE, LAMP(S), LENGTHS AND OPTIONS WITH OWNER AND ARCHITECT PRIOR TO ORDERING ANY EQUIPMENT.
2. CONTRACTOR TO VERIFY COMPATIBLE DIMMER TYPE AND MANUFACTURER FROM LUMINAIRE CUT SHEET.
3. CONTRACTOR TO PROVIDE ALL PARTS AND ACCESSORIES FOR A COMPLETE AND FUNCTIONING SYSTEM.
4. ALL SITE/AREA LIGHTS ARE MOUNTED ON 22'-0" POLES WITH 3'-0" CONCRETE BASES, TOTAL MOUNTING HEIGHT = 25'-0".

CALCULATION SUMMARY

LABEL	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
PARKING	FC	3.16	6.9	1.7	1.86 to 1	4.06 to 1
DRIVES	FC	3.38	7.2	1.1	3.07 to 1	6.55 to 1
DRIVE-UP CANOPY	FC	7.65	14.7	6.3	1.21 to 1	2.33 to 1
REAR (WEST) DRIVE	FC	0.82	2.5	0.2	4.10 to 1	12.5 to 1
ENTRY	FC	3.10	4.4	1.1	2.82 to 1	4.00 to 1

PCD FILE NO. PPR-18-012

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ENT CREDIT UNION
SITE DEVELOPMENT PLAN
LOT 1, BLOCK 1,
CLAREMONT RANCH FILING NO. 9B

MARKSHEFFEL RD. AND CONSTITUTION AVE
COLORADO SPRINGS, COLORADO

#	Date	Issue / Description	Init.

Project No:	
Drawn By:	JMG
Checked By:	JKG
Date:	05/03/18

PHOTOMETRIC PLAN

C5.0
SHEET 4 OF 7

ENT CREDIT UNION
SITE DEVELOPMENT PLAN
LOT 1, BLOCK 1, CLAREMONT RANCH FILING NO. 9B
PART OF THE NORTHWEST 1/4 OF SECTION 4, TOWNSHIP 14 SOUTH, RANGE 65 WEST OF THE 6TH P.M.,
CITY OF COLORADO SPRINGS, COUNTY OF EL PASO, STATE OF COLORADO

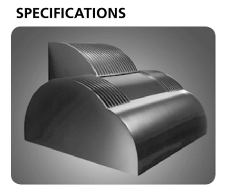
KIM LIGHTING — **WD14-LED** 14" Wall Director® PicoEmitter® LED kl_wd14eled_spec.pdf

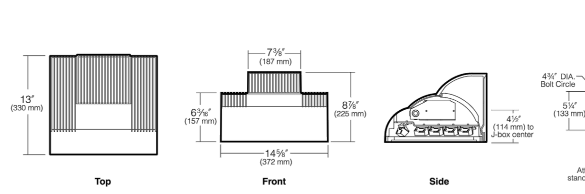
JOB ______ TYPE ______
NOTES ______ APPROVALS ______

FEATURES
- Full Cutoff PicoEmitter technology
- Available in 580nm, 3000K, 4000K and 5000K standard CCT
- Type 2, 3, 4 distributions
- 0-10V dimming drivers standard
- Sealed optical chamber

Certifications — cULus LISTED; ida Dark Sky Approved (3000K and warmer CCTs only); DLC

SPECIFICATIONS





Weight: 26 lbs

ORDERING CODE

Fixture: Housing	Fixture: Distribution	Fixture: Drive Current	Electrical Module: Source	Electrical Module: Color Temperature[1]	Electrical Module: Voltages	Fixture Finish	Fixture Finish
WD14U Small, Up	2 Type II	[E35 350mA PicoEmitter]	[60L 60 LEDs, 65W]	2K 580nm[2,2]	120 120V	BL Black	A25-7 7-pin Photocell Receptacle
[WD14D Small, Down]	3 Type III			3K 3000K	208 208V	[DB Dark Bronze]	A30 120V Button Photocell
	[4 Type IV]			[4K 4000K]	240 240V	GT Graphite	A31 208V Button Photocell
				5K 5000K	277 277V	LG Light Gray	A32 240V Button Photocell
					347 347V[3]	PS Platinum Silver	A33 277V Button Photocell
					480 480V[3]	TT Titanium	A34 480V Button Photocell
					[TBD]	WH White	A35 347V Button Photocell
						CC Custom Color, consult representative	

Fuse Options	Lens Options	NFO Option	Other Options	Control Options	Mounting Options
SF 120, 277, 347 Line Volts	LS Polycarbonate Lens[4]	NFO Neighbor Friendly Optic. Photometry available for Type III/IV. All others, consult factory.	5DS14 Shield for horizontal cutoff when fixture tilted at 5°	Wireless: WIR-RML-IO 120-347V, 1000' range, WiScape RF mesh control system with off/on/dim, photo, GPS location, alert, monitoring and metering capabilities.	SCM14U Surface Conduit mnt. for Up fixture w/ one 3/4" NPT conduit tap in sides and bottom
DF 208, 240, 480 Line Volts			WG14 11 ga. wire guard finished to match fixture		SCM14D Surface Conduit mnt. for Down fixture w/ one 3/4" NPT conduit tap in sides and bottom

For Control Spec Select: http://trpssl.com/index.html

1 For custom optics and color temperature configurations, contact factory.
2 Turtle friendly. Maximum 500mA drive current for 2K amber option.
3 347V & 480V currents may be supplied with step-down transformer.
4 Not available for UP version. Use only when vandalism is anticipated to be high. Required only for vandal protection in locations where fixtures can be reached by unauthorized persons.

Kim Lighting reserves the right to change specifications without notice.

© 2017 KIM LIGHTING | 17760 Rowland Street | City of Industry | CA 91748
P 626.968.5666 | F 626.369.2695 | www.kimlighting.com | Rev. Oct. 10, 2017
HUBBELL Lighting | 1 |

CONTRACTOR TO VERIFY VOLTAGE BEFORE ORDERING ANY EQUIPMENT

MANUFACTURER SPEC SHEET FOR BUILDING FIXTURE 'B6'

MH	Job Name: ENT Federal Credit Union - Powers Autopark Branch; Architect: Keys + Lauer Architects (Colorado Springs); Controls: Farnsworth Group Inc (Colorado Springs)	Catalog Number: 8300K-49688OZL16; Notes:	Type: G

Toman Collection
Toman 1 Light LED Outdoor Wall OZ
49688OZL16 (Olde Bronze)

Project Name: ______
Location: ______
Type: ______
Qty: ______
Comments: ______

Ordering Information

Product ID	49688OZL16
Finish	Olde Bronze
Available Finishes	OZ, OZ
Collection	Toman Collection

Dimensions

Extension	11.00"
Height from center of Wall opening	4.25"
Base Backplate	8.00 X 8.25
Weight	8.14 LBS

Photometrics

Kelvin Temperature	3000K
Color Rendering Index	80

Specifications

Material	Aluminum
Glass Description	Satin Etched Cased Opal

Electrical

Dimmable	Yes
Voltage	120V

Qualifications

Safety Rated	Wet
Energy Star	Yes
Warranty	www.kichler.com/warranty

Primary Lamping

Light Source	LED
Lamp Included	Included
Light Source Equivalent	60(1) Incandescent
Number of Lights/LEDs	1
Initial Lumens	800
Socket Wire	150
Socket Type	Medium
Lamp Type	A19
Dimming	Yes

Dimensions

Height	20.00"
Width	10.00"

Alternate Lamps

Lamp Included	Bulb Listing	Light Source	Max Wattage/Range	Bulb Product ID	Dimming
No	Alternate	INCA	150W		

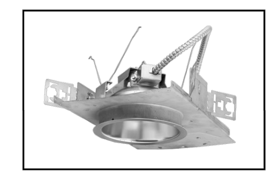
Kichler
7711 East Pleasant Valley Road
Cleveland, Ohio 44131-8010
Toll free: 866.558.5706 or kichler.com

Notes:
1) Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions.
2) Incandescent Equivalent: The incandescent equivalent as presented is an approximate number and is for reference only.

KICHLER

CONTRACTOR TO VERIFY VOLTAGE BEFORE ORDERING ANY EQUIPMENT

MANUF. SPEC SHEET FOR BUILDING FIXTURE 'B3'



6" LED Downlight
LC6LED
120 or 277V
0-10V Dimming Option

DATE: ______ TYPE: ______
FIRM NAME: ______
PROJECT: ______

LiteFrame
Ceiling Cutout: 6¼"
Maximum Ceiling Thickness 1¼"
For conversion to millimeters, multiply inches by 25.4
Not to Scale

APPLICATIONS:
LiteFrame Commercial (LC6LED) is a 6" commercial grade LED downlight with available outputs between 1000-1800 lumens. This is suitable to replace most CFL downlighting applications, while realizing substantial energy and maintenance savings. Rated for a minimum of 50,000 hours life (70% lumen maintenance) with ambient plenum temperatures up to 35°C (LED5), 28°C (LED6), 25°C (LED7). Free Air Flow around fixture is required for optimal life performance. This product is not recommended for use with 3rd party "FIREHAT" or insulation barriers.

HOUSING:
One-piece 22 gauge non-corrosive steel platform. Pre-wired J-box with snap-on cover for easy access. Snap-in connection from driver compartment allows easy installation of light engine/trim assembly and can be upgraded to accommodate technology improvements. Approved for 8 (4 in/4 out) No. 12 AWG conductors rated for 90°C through wiring.

REFLECTOR:
High purity aluminum, Alzak, iridescence suppressed, semi-diffuse reflector. Self-trim standard. Painted white self-trim (WT) available as option.

LED LIGHT ENGINE:
The LC6LED uses either 36, 48, 60 mid power Nichia LEDs, specifically mixed to provide a minimum of 80 CRI with 3 SDCM color consistency. The use of multiple mid power LEDs allows for optimal thermal management by effectively spreading the heat over a larger area and eliminating hot spots on the LEDs. A diffuse, yet highly transmissive lens obscures the view of the LEDs and creates a smooth, even look from below. The light engine is available in multiple Kelvin temperatures and the system is designed to provide optimal life and lumen maintenance (50,000 hours at 70% lumen maintenance). The reflector/light engine assembly is mechanically retained to the housing.

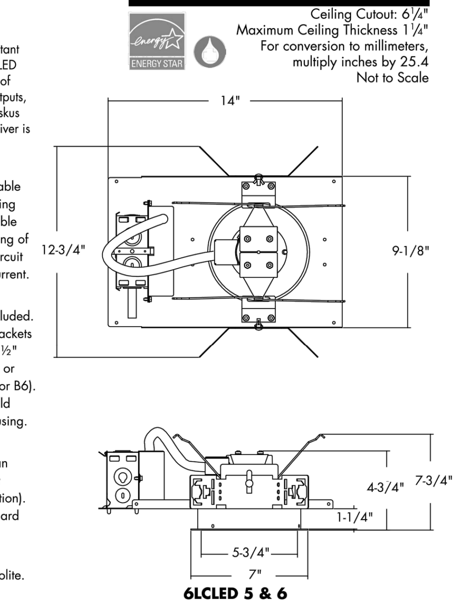
LED DRIVER:
The LC6LED utilizes a 25 watt constant current Thomas Research Products LED driver. This same driver is capable of running all three different lumen outputs, resulting in a reduction of housing skus and simplified specification. The driver is UL8750 and Class II compliant.

DIMMING:
A 0-10V dimming option is available (DM), providing flicker-free dimming down to 10%. See list of compatible dimmers on page (4). For the sizing of the control circuit, the dimming circuit may require up to 2mA of sink current.

INSTALLATION:
Light commercial bar hangers included. Universal adjustable mounting brackets also accept ½" EMT conduit or 1½" or ¾" lathing channel (by others) or Prescolite 24" bar hangers (B24 or B6). Wall wash orientation may be field adjusted in 90° increments to housing.

CERTIFICATIONS:
CSA certified to US and Canadian safety standards. Suitable for wet locations (EM & WW damp location). ENERGY STAR qualified on standard downlight.

WARRANTY:
5 year warranty. See www.prescolite.com for details.



*See page 4 for 6LCLED 7 line art
*See page 4 for 6LCLEDEM line art

Order housing, reflector, and accessories separately
CATALOG NUMBER: EXAMPLE: LC6LED120DM - 6LCLED535K8WT

HOUSING	VOLTAGE	HOUSING OPTIONS	TRIM APERTURE	OUTPUT	LED COLOR TEMP	CRI	REFLECTOR FINISH	REFLECTOR OPTIONS	ACCESSORIES
[LC6LED 6" LED Housing]	[120 120V]; 277 277V; 347[4,8] 347V	Blank No Dimming; [DM 0-10V dimming to 10%]; DM1[8] 0-10V dimming to 1%; EM[3,5] Bodine BSL310C-DF Battery Pack with integral test switch and indicator light; EMR Bodine BSL310C Battery Pack with remote test switch and indicator light; CP[4,7] Chicago Plenum	[6LCLED 6" Open Reflector/ Light Engine Assembly]	5 Nominal 1000 Delivered Lumens; 6 Nominal 1400 Lumens Delivered; [7 Nominal 1800 Lumens Delivered]	27K 2700 Kelvin; [30K 3000 Kelvin]; 35K 3500 Kelvin; 40K 4000 Kelvin; 50K 5000 Kelvin	[8 80+ CRI]	[Blank Clear Alzak, Semi-Diffuse]; REFLECTOR COLOR: WH[1] White Paint	[WT White Trim]; EM[3,5] Pre-punched reflector to accept integral test switch; WF Wide Flange; WW[5,6] Wall Wash; CP[4,7] Chicago Plenum	[B24 Set of two(2) 24" bar hangers for T-bar ceilings]; B6 Set of two (2) bar hangers for ceiling joist up to 24" centers; LiteGear[2] Inverter, single phase central lighting, 125VA-250VA; LPS Series[2] LitePower micro-inverter, 20VA-55VA; SCA6D_ Sloped ceiling adapter (see note on page 4)

1 Requires WT option
2 See Central Inverter compatibility note and web links on page 4.
3 EM must be selected on both the housing and the trim, not compatible with WW trim
4 Not compatible with EM or EMR
5 Damp location only
6 Not compatible with EM (EMR is compatible)
7 CP must be selected on both the housing and the trim, not compatible with WW trim
8 Not compatible with CP

In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.
Web: **www.prescolite.com** • Tech Support: **(888) 777-4832**

prescolite — A Division of Hubbell Lighting, Inc. **LFR-LED-013**

CONTRACTOR TO VERIFY VOLTAGE BEFORE ORDERING ANY EQUIPMENT

PHOTOMETRIC DATA
LiteFrame - 6" LC6LED Downlight

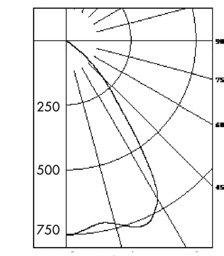
DRIVER DATA	6LCLED5xxx	6LCLED6xxx	6LCLED7xxx
Input Voltage	120, 277V	120, 277V	120, 277V
Input Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input Current	0.142 (120v) 0.061 (277v)	0.179 (120v) 0.078 (277v)	0.217 (120v) 0.094 (277v)
Input Power	17.0W	21.5W	26.0W
Constant Current Output	700mA	700mA	700mA
Power Factor	≥0.90	≥0.90	≥0.90
THD	<25%	<20%	<20%
EMI Filtering	FCC 47CFR Part 15, Class A	FCC 47CFR Part 15, Class A	FCC 47CFR Part 15, Class A
Operating Temperature	-30°C to +35°C	-30°C to +28°C	-30°C to +25°C
Dimming	0-10V	0-10V	0-10V

Over-voltage, over-current, short-circuit protected
When operating in EM mode, the fixture will deliver approximately 30% of the published full lumen output.

Lumen Multiplier Table
Photometrics for the LC6LED are published below at a nominal 3500 Kelvin temperature. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

5000 Kelvin	1.14
4000 Kelvin	1.03
3500 Kelvin	1.00
3000 Kelvin	1.00
2700 Kelvin	0.91

LC6LED120 6LCLED535K8
LED Light Engine: 3500K, 80+ CRI
System Wattage: 17.0W
Fixture Delivered Lumens: 1107
Fixture Efficacy: 65.1
Spacing Criteria: 1.1



CANDELA DISTRIBUTION

DEG	CANDELA
0	749
5	737
15	733
25	768
35	494
45	190
55	10
65	3
75	1
85	0
90	0

Test No. 9439
Tested at 25°C Ambient in accordance to IESNA LM-79-2008

ZONAL LUMEN SUMMARY

ZONE	LUMENS
0-60	1104
0-90	1107
90-180	0
0-180	1107

LUMINANCE DATA IN CANDELA/ SQ. METER

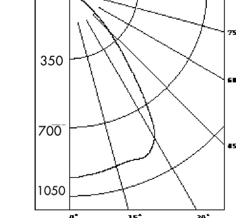
Angle in Vertical	Average - 0°
45°	16033
55°	1040
65°	424
75°	231
85°	0

COEFFICIENTS OF UTILIZATION Zonal Cavity Method
% Effective Ceiling Cavity Reflectance; 20% Effective Floor Cavity Reflectance; % Wall Reflectance

Room Cavity Ratio	80%: 70	80%: 50	80%: 30	80%: 10	70%: 70	70%: 50	70%: 30	70%: 10	50%: 50	50%: 30	50%: 10	30%: 50	30%: 30	30%: 10	10%: 50	10%: 30	10%: 10
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72
5	89	80	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	68	64	61
7	79	68	62	57	77	68	61	57	66	61	56	65	60	56	64	59	56
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	53	48	44

LC6LED120 6LCLED535K8 Test No. 9439

LC6LED120 6LCLED635K8
LED Light Engine: 3500K, 80+ CRI
System Wattage: 21.5W
Fixture Delivered Lumens: 1424
Fixture Efficacy: 66.2
Spacing Criteria: 1.1



CANDELA DISTRIBUTION

DEG	CANDELA
0	952
5	947
15	927
25	931
35	653
45	270
55	16
65	3
75	1
85	0
90	0

Test No. 9440
Tested at 25°C Ambient in accordance to IESNA LM-79-2008

ZONAL LUMEN SUMMARY

ZONE	LUMENS
0-60	1420
0-90	1424
90-180	0
0-180	1424

LUMINANCE DATA IN CANDELA/ SQ. METER

Angle in Vertical	Average - 0°
45°	22784
55°	1664
65°	424
75°	231
85°	0

COEFFICIENTS OF UTILIZATION Zonal Cavity Method
% Effective Ceiling Cavity Reflectance; 20% Effective Floor Cavity Reflectance; % Wall Reflectance

Room Cavity Ratio	80%: 70	80%: 50	80%: 30	80%: 10	70%: 70	70%: 50	70%: 30	70%: 10	50%: 50	50%: 30	50%: 10	30%: 50	30%: 30	30%: 10	10%: 50	10%: 30	10%: 10
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47
10	65	55	48	44	64	54	48	44	53	48	44	53	47	44	52	47	43

LC6LED120 6LCLED635K8 Test No. 9440

prescolite
Web: **www.prescolite.com** • Tech Support: **(888) 777-4832**
701 Millennium Boulevard • Greenville, SC 29607 U.S.A. • Phone (864) 678-1000
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Specifications subject to change without notice. • Printed in U.S.A. • LFR-LED-013 • 7/20/16
HUBBELL Lighting, Inc.

MANUF. SPEC SHEET FOR BUILDING FIXTURE 'C'

McGraw-Edison

DESCRIPTION
The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics
Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 3000K, 5000K and 6000K CCT.

Electrical
LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA, 800mA and 1200mA drive currents (nominal).

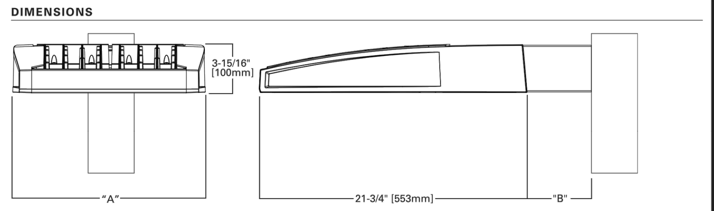
Mounting
STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall mount bracket option. QUICK MOUNT ARM: Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish
Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty
Five-year warranty.

GLEON
GALLEON LED
1-10 Light Squares
Solid State LED
AREA/SITE LUMINAIRE

DIMENSIONS

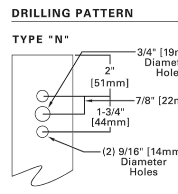


DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length[1]	Weight with Arm (lbs.)	EPA with Arm[2] (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

DRILLING PATTERN
TYPE "N"



CERTIFICATION DATA
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium™ Qualified*

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

EATON Powering Business Worldwide — *www.designlights.org — TD500020EN 2016-09-28 15:31:55

CONTRACTOR TO VERIFY VOLTAGE BEFORE ORDERING ANY EQUIPMENT

GLEON GALLEON LED

ORDERING INFORMATION

Sample Number: GLEON-AF-04-LED-E1-T3-GM-QM

Product Family[1,2]	Light Engine	Number of Light Squares[3]	Lamp Type	Voltage	Distribution	Color	Mounting
[GLEON=Galleon]	[AF=1A Drive Current]	01=1; 02=2; 03=3; [04=4]; 05=5; 06=6; 07=7[4]; 08=8[4]; 09=9[5]; 10=10[5]	[LED=Solid State Light Emitting Diodes]	E1=120-277V; 347=347V[6]; 480=480V[6,7]; TBD	T2=Type II; T2R=Type II Roadway; T3=Type III; T3R=Type III Roadway; [T4FT=Type IV Forward Throw] S1; T4W=Type IV Wide; 5NQ=Type V Narrow; 5MQ=Type V Square Medium; 5WQ=Type V Square Wide; SL2=Type II w/Spill Control; SL3=Type III w/Spill Control; [SL4=Type IV w/Spill Control] S2; SLL=90° Spill Light Eliminator Left; SLR=90° Spill Light Eliminator Right; RW=Rectangular Wide Type I; AFL=Automotive Frontline	AP=Grey; [BZ=Bronze]; BK=Black; DP=Dark Platinum; GM=Graphite Metallic; WH=White	[[Blank]=Arm for Round or Square Pole]; EA=Extended Arm[8]; MA=Mast Arm Adapter[9]; WM=Wall Mount; QM=Quick Mount Arm (Standard Length)[10]; QMEA=Quick Mount Arm (Extended Length)[11]

Options (Add as Suffix)
7030=70 CRI 3000K[12]
8030=80 CRI 3000K[13]
7050=70 CRI 5000K[12]
7060=70 CRI 6000K[12]
600=Drive Current Factory Set to Nominal 600mA[14]
800=Drive Current Factory Set to Nominal 800mA[14]
1200=Drive Current Factory Set to Nominal 1200mA[14,15]
F=Single Fuse (120, 277 or 347V. Must Specify Voltage)
FF=Double Fuse (208, 240 or 480V. Must Specify Voltage)
2L=Two Circuits[16,17]
DIM=External 0-10V Dimming Leads
P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Volatage)
PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle
R=NEMA Twistlock Photocontrol Receptacle
AHD145=After Hours Dim, 5 Hours[18]
AHD245=After Hours Dim, 6 Hours[18]
AHD255=After Hours Dim, 7 Hours[18]
AHD355=After Hours Dim, 8 Hours[18]
HA=50°C High Ambient[19]
MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height[20,21]
MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height[20,22]
MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height[20,23]
MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range)[20,24]
MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height[20,21,25]
MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height[20,22,25]
MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height[20,23,25]
MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range)[20,24,25]
MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height[20,21]
MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height[20,22]
MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height[20,23]
MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range)[20,24]
LWR-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height[26]
LWR-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height[26]
L90=Optics Rotated 90° Left
R90=Optics Rotated 90° Right
MT=Factory Installed Mesh Top
TH=Tool-less Door Hardware
LCF=Light Square Trim Plate Painted to Match Housing[27]
[HSS=Factory Installed House Side Shield[28]] S2
CE=CE Marking[29]

Accessories (Order Separately)
OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V
OA/RA1027=NEMA Photocontrol - 480V
OA/RA1201=NEMA Photocontrol - 347V
OA/RA1013=Photocontrol Shorting Cap
OA/RA1014=120V Photocontrol
MA1252=10kV Surge Module Replacement
MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon
MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon
MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon
MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon
MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon
MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon
MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon
MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon
MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon
MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon
FSIR-100=Wireless Configuration Tool for Occupancy Sensor[20]
GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares
GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares
GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares
GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares
GLEON-QM=Quick Mount Arm Kit
GLEON-QMEA=Quick Mount Extended Arm Kit
LS/HSS=Field Installed House Side Shield[28,30]

NOTES:
1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
2. DesignLights Consortium™ Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
3. Standard 4000K CCT and minimum 70 CRI.
4. Not compatible with extended quick mount arm (QMEA).
5. Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA).
6. Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A.
7. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
8. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
9. Factory installed.
10. Maximum 8 light squares.
11. Maximum 6 light squares.
12. Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
13. Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
14. 1 Amp standard. Use dedicated IES files for 600mA, 800mA and 1200mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
15. Not available with HA option.
16. 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
17. Not available with LumaWatt wireless sensors.
18. Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
19. 50°C lumen maintenance data applies to 600mA, 800mA and 1A drive currents.
20. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
21. Approximately 22' detection diameter at 8' mounting height.
22. Approximately 40' detection diameter at 20' mounting height.
23. Approximately 60' detection diameter at 40' mounting height.
24. Approximately 100' detection diameter at 40' mounting height.
25. Replace X with number of Light Squares operating in low output mode.
26. LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROUT-1 in appropriate quantities. See www.eaton.com/lighting for LumaWatt application information.
27. Not available with house side shield (HSS).
28. Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
29. CE is not available with the LWR, MS, MS/X, MS/DIM, P, R or PER7 options. Available in 120-277V only.
30. One required for each Light Square.

EATON Powering Business Worldwide
Eaton
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting
Specifications and dimensions subject to change without notice.
TD500020EN 2016-09-28 15:31:55

MANUFACTURER SPECIFICATION SHEET FOR AREA FIXTURES 'S1' & 'S2'

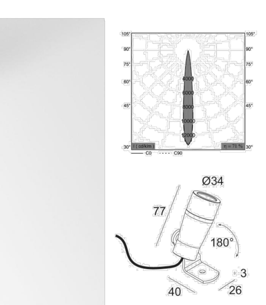
DELTALIGHT®

Date
Name
Client
Project name
Quote#
Type/Quantity

08/05/2018 08:46:46

Specification Sheet

KIX S
232 08 831 Weblink



Available colors:	ALU GREY (232 08 831 A); [DARK GREY (232 08 831 N)]
	ADJUSTABLE; INCL.1 x LED WHITE 1,1-2,3W / CRI>80 / 3000K; INCL.1 x LENS 10°; INCL.1 x CABLE H05 RN-F 2 x 1 mm² 2m; EXCL.LED POWER SUPPLY 350-700mA-DC
LED Technics:	[Light source: 223 lm // 2 W // 110 lm/W]; Luminaire: 159 lm // 3 W // 60 lm/W
Class:	III
Weight:	0.3 KG
Protection level:	IP65
Minimum distance:	n.a.
Options:	STRAP; LED POWER SUPPLY 350 / 500 / 700mA-DC DIM; CBOX / CBOX 350mA; IP68 CONNECTION KIT; IP68 CONNECTOR 3P

For detailed installation instructions, please consult the manual. 232_08_XXX_HAND.pdf

CONTRACTOR TO VERIFY VOLTAGE BEFORE ORDERING ANY EQUIPMENT

MANUF. SPEC SHEET FOR UPLIGHT FIXTURE 'B7'

Galloway
Planning. Architecture. Engineering.
6162 S. Willow Drive, Suite 320
Greenwood Village, CO 80111
303.770.8884 O
www.gallowayUS.com
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ENT CREDIT UNION
SITE DEVELOPMENT PLAN
LOT 1, BLOCK 1,
CLAREMONT RANCH FILING NO. 9B

MARKSHEFFEL RD. AND CONSTITUTION AVE
COLORADO SPRINGS, COLORADO

#	Date	Issue / Description	Init.

Project No:	ECU007
Drawn By:	JMG
Checked By:	JKG
Date:	05/03/18

PHOTOMETRIC PLAN

C5.1
SHEET 5 OF 7

ENT CREDIT UNION

LOT 1, BLOCK 1, CLAREMONT RANCH FILING NO. 9B
PART OF THE NORTHWEST 1/4 OF SECTION 4, TOWNSHIP 14 SOUTH, RANGE 66 WEST OF THE 6TH P.M.,
CITY OF COLORADO SPRINGS, COUNTY OF EL PASO, STATE OF COLORADO

GRADING AND EROSION CONTROL PLAN

LIST OF CONTACTS

APPLICANT/DEVELOPER
ENT CREDIT UNION
7750 CAMPUS DRIVE
COLORADO SPRINGS, CO 80920
TEL: (719) 550-6795
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EMAIL: JWILKINS@ENT.COM

ENGINEER
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6162 SOUTH WILLOW DRIVE, SUITE 320
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TEL: (303) 770-8884
FAX: (303) 770-3636
CONTACT: JENNY R. ROMANO, P.E.
EMAIL: JENNYROMANO@GALLOWAYUS.COM

ARCHITECT
KEYS & LAUER ARCHITECTS
417 SOUTH CASCADE AVENUE
COLORADO SPRINGS, CO 80903
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CONTACT: VIC LAUER
EMAIL: VIC@KEYSLAUERARCHITECTS.COM

LANDSCAPE ARCHITECT
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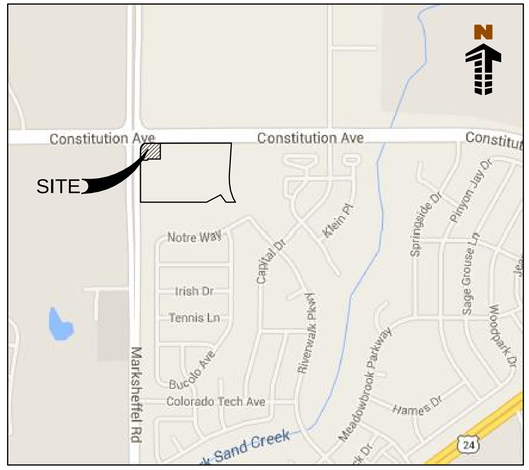
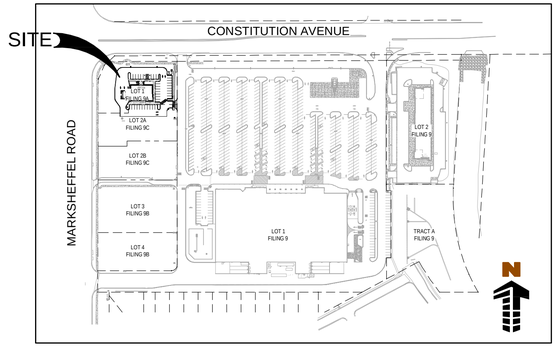
GREENWOOD VILLAGE, COLORADO 80111
TEL: (303) 770-8884
FAX: (303) 770-3636
CONTACT: DANIELLE TOEPFER
EMAIL: DANIELLETOEPFER@GALLOWAYUS.COM

SURVEYOR
GALLOWAY & COMPANY, INC.
1755 TELSTAR DRIVE, SUITE 107
COLORADO SPRINGS, COLORADO 80920
TEL: (719) 900-7220
FAX: (303) 770-3636
CONTACT: BRIAN DENNIS
EMAIL: BRIANDENNIS@GALLOWAYUS.COM



VICINITY MAP
SCALE: 1" = 1000'



SITE MAP
SCALE: 1" = 1000'

SHEET INDEX

1	C2.0	COVER SHEET
2	C2.1	GRADING PLAN
3	C2.2	EROSION CONTROL PLAN
4	C2.3	EROSION CONTROL DETAILS

PROPERTY DESCRIPTION
LOT 1, BLOCK 1, CLAREMONT RANCH FILING NO. 9B, ACCORDING TO THE PLAT THEREOF RECORDED MARCH 14, 2016 AT RECEPTION NO. 216713741 IN THE RECORDS OF EL PASO COUNTY, STATE OF COLORADO.

DESIGN ENGINEER'S STATEMENT
THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO CHTHE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

JENNY R ROMANO, P.E. #44401 — DATE: 6/28/2018

OWNER/DEVELOPER'S STATEMENT
I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THIS DETAILED PLAN AND REPORT.

Jeff Wilkins · 6/28/2018
TITLE: CHIEF OPERATIONS OFFICER
ENT CREDIT UNION
COLORADO SPRINGS, CO 80920
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.

JENNIFER IRVINE, P.E.,
COUNTY ENGINEER / ECM ADMINISTRATOR

Approved
by Elizabeth Nijkamp
El Paso County Planning and Community Development
on behalf of Jennifer Irvine, County Engineer/ECM Administrator
07/19/2018 2:45:49 PM

PCD FILE NO. PPR-18-012

Galloway
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6162 S. Willow Drive, Suite 320
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www.gallowayUS.com

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COLORADO LICENSED PROFESSIONAL ENGINEER JENNY R. ROMANO #44401 6/19/18

ENT CREDIT UNION
GRADING & EROSION CONTROL PLAN
LOT 1, BLOCK 1,
CLAREMONT RANCH FILING NO. 9B

MARKSHEFFEL RD. AND CONSTITUTION AVE
COLORADO SPRINGS, COLORADO

#	Date	Issue / Description	Init.
1	05/09/18	2nd SUBMITTAL	JSB

Project No:	ECU007
Drawn By:	JJA
Checked By:	JRR
Date:	05/09/18

COVER SHEET

C2.0
SHEET 1 OF 4

ENT CREDIT UNION

LOT 1, BLOCK 1, CLAREMONT RANCH FILING NO. 9B
PART OF THE NORTHWEST 1/4 OF SECTION 4, TOWNSHIP 14 SOUTH, RANGE 66 WEST OF THE 6TH P.M.,
CITY OF COLORADO SPRINGS, COUNTY OF EL PASO, STATE OF COLORADO

GRADING AND EROSION CONTROL PLAN

N

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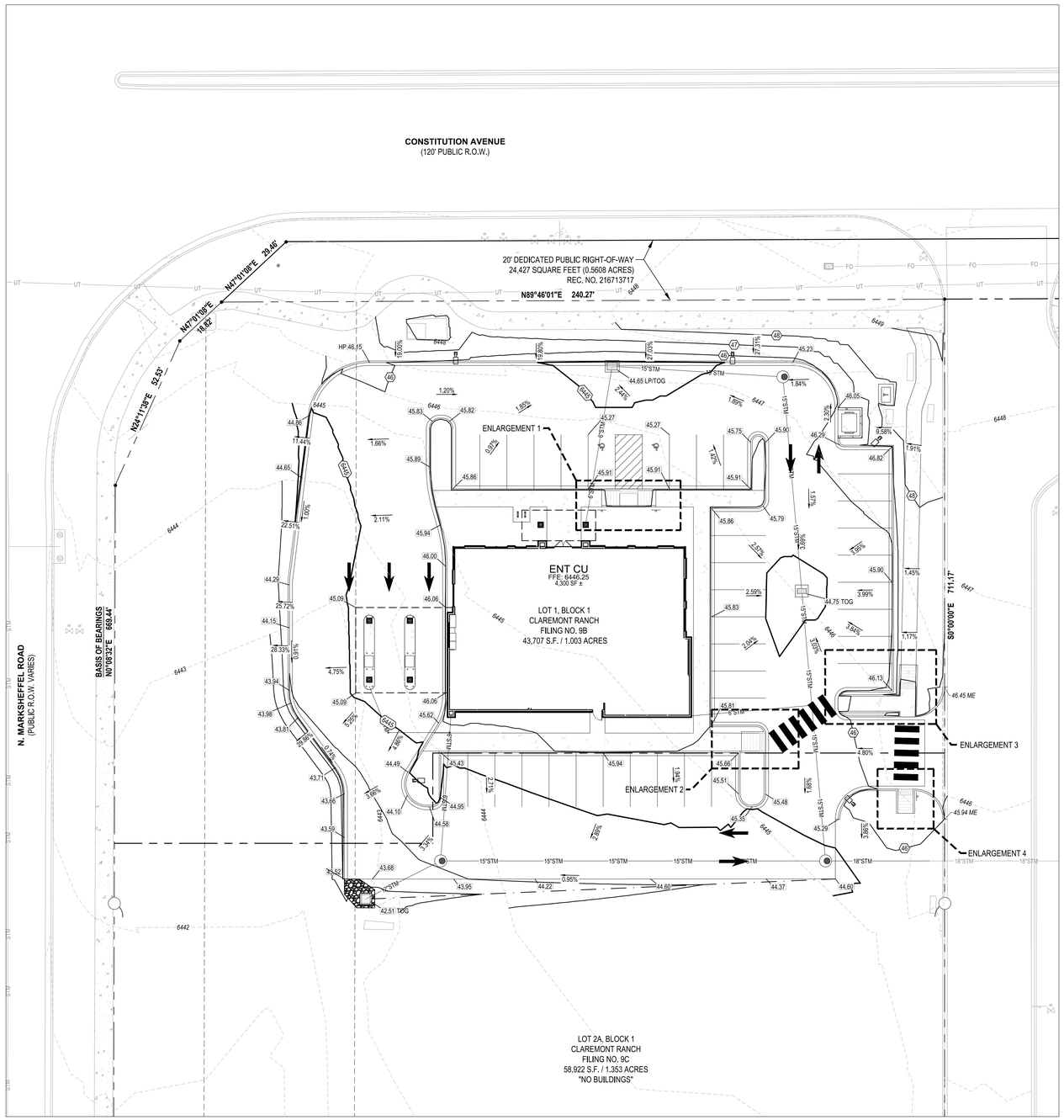
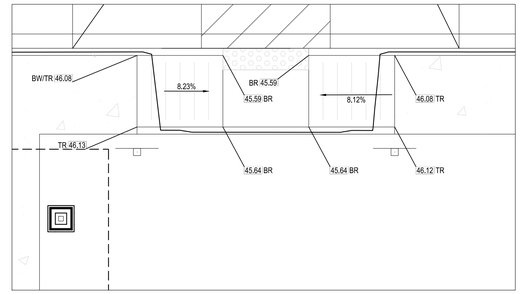
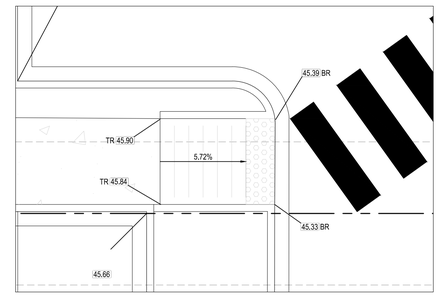
SCALE: 1"=20'

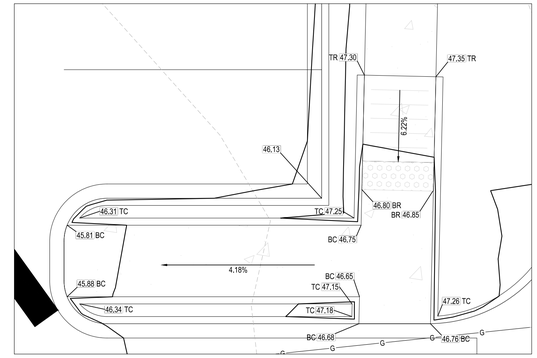




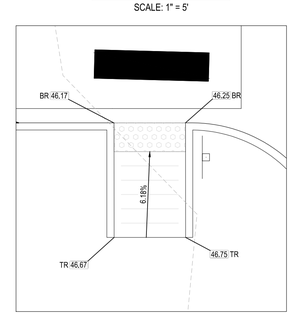
ENLARGEMENT 1
SCALE: 1" = 5'



ENLARGEMENT 2
SCALE: 1" = 5'



ENLARGEMENT 3
SCALE: 1" = 5'



ENLARGEMENT 4
SCALE: 1" = 5'

GRADING LEGEND

	PROPERTY BOUNDARY LINE
	ADJACENT PROPERTY BOUNDARY LINE
	EASEMENT BOUNDARY LINE
50	PROPOSED MAJOR CONTOUR
48	PROPOSED MINOR CONTOUR
6450	EXISTING MAJOR CONTOUR
6448	EXISTING MINOR CONTOUR
XX" STM	EXISTING STORM SEWER
XX" STM	PROPOSED STORM SEWER
	EXISTING MANHOLE
	PROPOSED MANHOLE
	PROPOSED INLETS
TR	TOP OF RAMP
FF	FINISHED FLOOR
FG	FINISHED GRADE
ME	MATCH EXISTING
LP	LOW POINT
HP	HIGH POINT
TOG	TOP OF GRATE
BR	BOTTOM OF RAMP
TC	TOP OF CURB
BC	BOTTOM OF CURB
45.18	EXISTING SPOT ELEVATION
46.25	PROPOSED SPOT ELEVATION

GRADING NOTES

1. CONTRACTOR MUST OBTAIN ALL STATE AND CITY STORM WATER DISCHARGE AND EROSION CONTROL PERMITS PRIOR TO ANY DISTURBANCE AND/OR GRADING ACTIVITY.
2. FINAL GRADES ARE SUBJECT TO MINOR CHANGE BY COMPANY REPRESENTATIVE. NO GRADE CHANGES IN EXCESS OF 0.05' WITHOUT COMPANY APPROVAL.
3. ANY FILL MATERIAL REQUIRED TO BRING THE SITE TO GRADE SHALL BE CLEAN FILL DIRT APPROVED BY GEOTECHNICAL ENGINEER AND SHALL BE PLACED AND COMPACTED PER GEOTECHNICAL REPORT RECOMMENDATIONS.
4. SET PROPERTY CORNER PINS IN CONCRETE. IF PROPERTY CORNERS ARE DESTROYED BY CONTRACTOR, THE CONTRACTOR SHALL BEAR THE EXPENSE OF RELOCATING CORNERS BY A REGISTERED SURVEYOR.
5. THIS DESIGN IS BASED ON A SOIL AND FOUNDATION INVESTIGATION. A COPY OF THIS REPORT IS AVAILABLE FOR INSPECTION BY THE CONTRACTORS.
6. ALL SPOT GRADES ARE TO FLOWLINE UNLESS OTHERWISE NOTED.
7. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MINIMIZING DEPOSITION OF ONSITE SEDIMENTS ONTO SURROUNDING PUBLIC STREETS DURING CONSTRUCTION.
8. ALL LANDSCAPING AREAS SHALL BE GRADED TO WITHIN 0.10' WITH COMPANY APPROVED TOP SOIL TO A MINIMUM 6" DEPTH.
9. ALL STORM SEWER IS PRIVATE AND SIZED FOR THE 100-YR EVENT, UNLESS OTHERWISE NOTED.
10. ADD 6400 TO ALL SPOT ELEVATIONS.
11. ENSURE THAT THE PROVISIONS OF CRS 37-92-602, AS AMENDED BY SENATE BILL 15-212, REGARDING NOTIFICATION OF DOWNSTREAM WATER RIGHTS HOLDERS ARE UPHELD.

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

BASIS OF BEARING

ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. THE EAST ROW LINE OF MARKSHEFFEL ROAD, ALSO BEING THE WEST LINE OF CLAREMONT RANCH FILING NO. 9A, MONUMENTED ON THE NORTH WITH A NO. 5 REBAR W/ YELLOW PLASTIC CAP, "PLS 36567" AND ON THE SOUTH BY A NAIL & DISC, "PLS 38069" AND IS CONSIDERED TO BEAR N00°08'32"E.

BENCHMARK

ELEVATIONS FOR THE SITE WERE BASED ON THE COLORADO SPRINGS UTILITIES, FACILITIES INFORMATION MANAGEMENT SYSTEM (FIMS) BENCHMARK "BLT104" (ELEV=6452.43 NGVD 29). "BLT104" IS A 2" FIMS ALUMINUM CAP AND IS SET ON THE NORTHEAST CORNER OF A HEADWALL BOX CULVERT AT THE FIRST CREEK CROSSING UNDER CONSTITUTION AVE, EAST OF MARKSHEFFEL ROAD.

TBM #1 (ON-SITE BENCHMARK)
LOCATED ALONG THE FRONT OF SIDEWALK ALONG THE SOUTH RIGHT OF WAY OF CONSTITUTION AVE AND EAST OF THE ACCESS DRIVE. ELEV=6449.13'

CAUTION - NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE FIELD LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

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

PCD FILE NO. PPR-18-012

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COLORADO LICENSED PROFESSIONAL ENGINEER 44401 6/19/18

ENT CREDIT UNION
GRADING & EROSION CONTROL PLAN
LOT 1, BLOCK 1,
CLAREMONT RANCH FILING NO. 9B

MARKSHEFFEL RD. AND CONSTITUTION AVE
COLORADO SPRINGS, COLORADO

#	Date	Issue / Description	Init.
1	05/09/18	2nd SUBMITTAL	JSB

Project No:	ECU007
Drawn By:	JJA
Checked By:	JRR
Date:	05/09/18

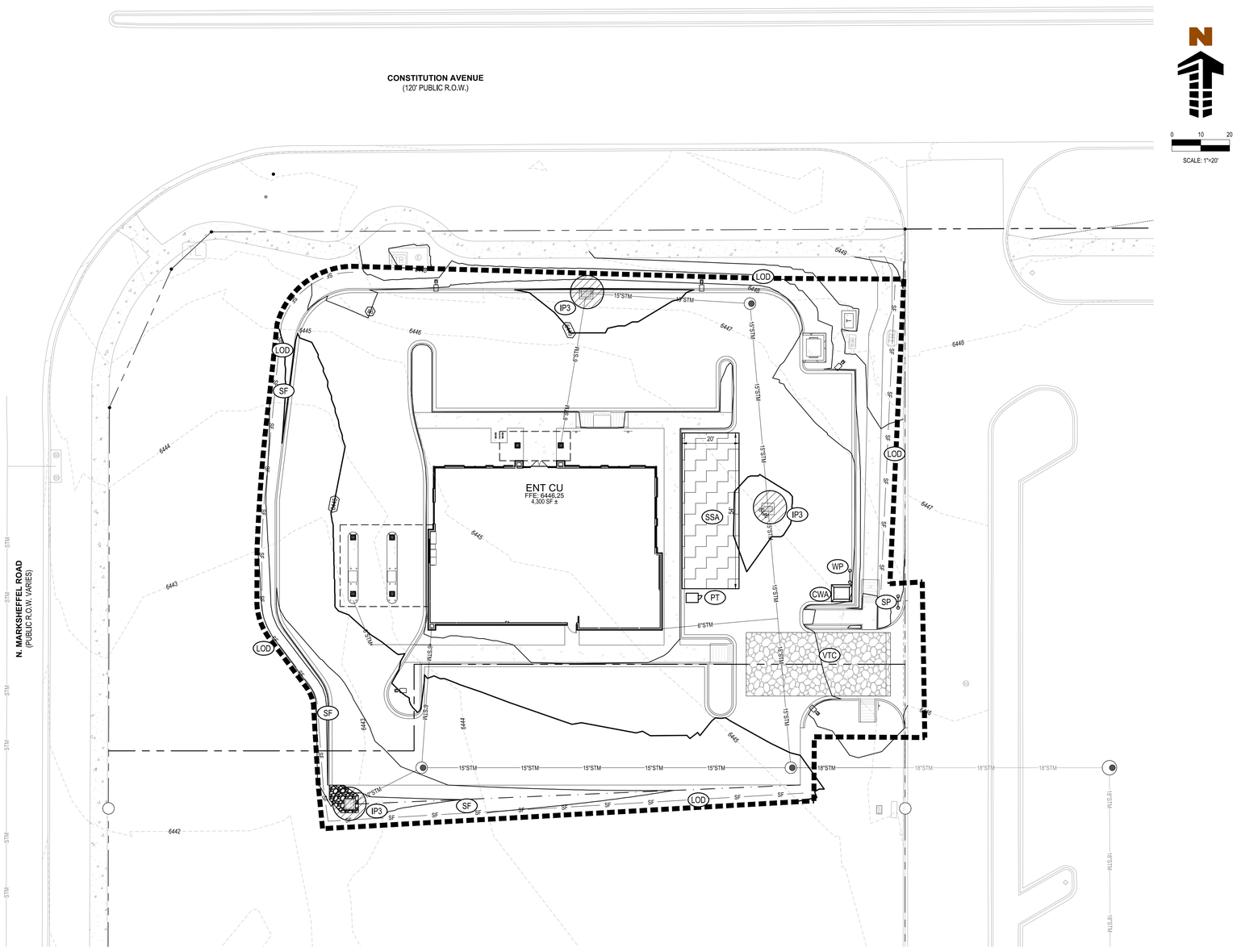
GRADING PLAN
EPC 7/19/18

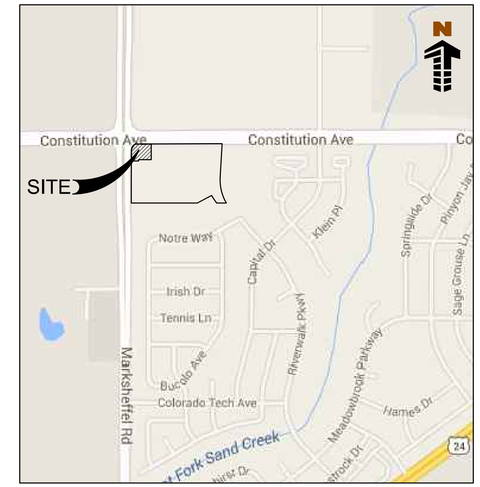
C2.1
SHEET 2 OF 4

ENT CREDIT UNION

LOT 1, BLOCK 1, CLAREMONT RANCH FILING NO. 9B
PART OF THE NORTHWEST 1/4 OF SECTION 4, TOWNSHIP 14 SOUTH, RANGE 66 WEST OF THE 6TH P.M.,
CITY OF COLORADO SPRINGS, COUNTY OF EL PASO, STATE OF COLORADO

GRADING AND EROSION CONTROL PLAN





VICINITY MAP
SCALE: 1" = 1000'

GRADING LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- EASEMENT BOUNDARY LINE
- 50 — PROPOSED MAJOR CONTOUR
- 48 — PROPOSED MINOR CONTOUR
- 6450 — EXISTING MAJOR CONTOUR
- 6448 — EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING MANHOLE

EROSION CONTROL LEGEND

- LOD — LIMITS OF DISTURBANCE (0.743 AC.)
- 2.56% — FLOW ARROW
- VTC — CONSTRUCTION VEHICLE ENTRY
- SF — SILT FENCE
- CWA — CONCRETE WASHOUT
- SSA — STABILIZED STAGING AREA
- IP-1 — IP-1 - FILTER FABRIC INLET PROTECTION
- IP-3 — IP-3 - ROCK SOCK AREA INLET PROTECTION
- SP — SITE POSTING (CONTACTS AND PERMITS)
- WP — WASHOUT POSTING
- PT — PORTABLE TOILET

NOTES

THE PLAN SHALL NOT SUBSTANTIALLY CHANGE THE DEPTH OF COVER, OR ACCESS TO UTILITY FACILITIES. ADDITIONALLY, THE PLAN SHALL NOT INCREASE OR DIVERT WATER TOWARDS UTILITY FACILITIES. ANY CHANGES TO UTILITY FACILITIES TO ACCOMMODATE THE PLAN, MUST BE DISCUSSED AND AGREED TO BY THE AFFECTED UTILITY PRIOR TO IMPLEMENTING THE PLAN. THE RESULTING COST TO RELOCATE OR PROTECT UTILITIES, OR PROVIDE INTERIM ACCESS IS AT THE EXPENSE OF THE PLAN APPLICANT.

BENCHMARK

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RUNOFF COEFFICIENT TABLE				
	EXISTING COEFFICIENTS		PROPOSED COEFFICIENTS	
	5-YEAR	100-YEAR	5-YEAR	100-YEAR
COMPOSITE COEFFICIENT	0.65	0.77	0.55	0.70

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COLORADO LICENSED
JAMES A. RENNER
#4401
6/19/18
PROFESSIONAL ENGINEER

ENT CREDIT UNION
GRADING & EROSION CONTROL PLAN
LOT 1, BLOCK 1,
CLAREMONT RANCH FILING NO. 9B

MARKSHEFFEL RD. AND CONSTITUTION AVE
COLORADO SPRINGS, COLORADO

#	Date	Issue / Description	Init.
1	05/09/18	2nd SUBMITTAL	JSB

Project No:	ECU007
Drawn By:	JJA
Checked By:	JRR
Date:	05/09/18

EROSION CONTROL PLAN

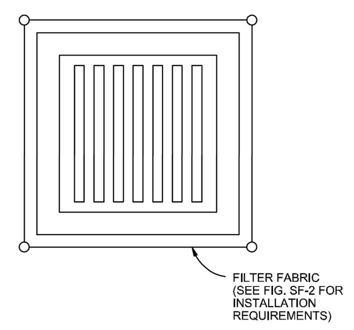
EPC 7/19/18

C2.2
SHEET 3 OF 4

ENT CREDIT UNION

LOT 1, BLOCK 1, CLAREMONT RANCH FILING NO. 9B
PART OF THE NORTHWEST 1/4 OF SECTION 4, TOWNSHIP 14 SOUTH, RANGE 66 WEST OF THE 6TH P.M.,
CITY OF COLORADO SPRINGS, COUNTY OF EL PASO, STATE OF COLORADO

GRADING AND EROSION CONTROL PLAN



FILTER FABRIC INLET PROTECTION
NTS

FILTER FABRIC INLET PROTECTION NOTES

INSTALLATION REQUIREMENTS

1. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET.

2. SEE SILT FENCE FIGURE SF-2 FOR INSTALLATION REQUIREMENTS.

3. POSTS ARE TO BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF 3 FEET.

MAINTENANCE REQUIREMENTS

1. CONTRACTOR SHALL INSPECT INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.

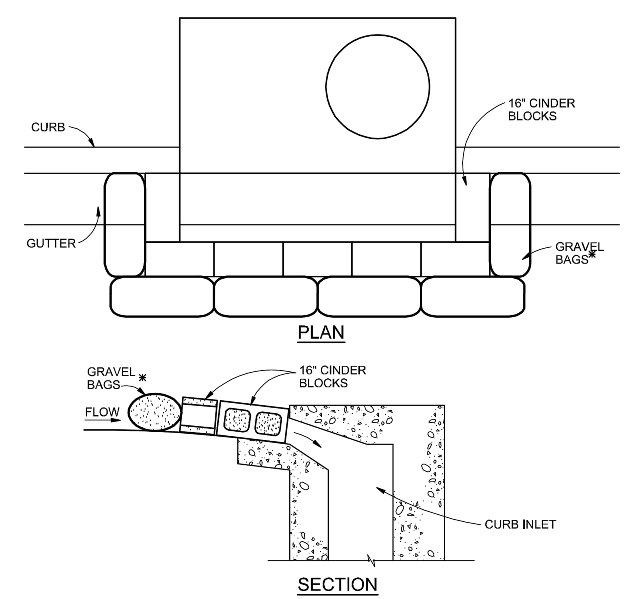
2. DAMAGED, COLLAPSED, UNENTRENCHED OR INEFFECTIVE INLET PROTECTION SHALL BE PROMPTLY REPAIRED OR REPLACED.

3. SEDIMENT SHALL BE REMOVED FROM BEHIND FILTER FABRIC WHEN IT ACCUMULATES TO HALF THE EXPOSED GEOTEXTILE HEIGHT.

4. FILTER FABRIC PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED IN THE DRAINAGE AREA AS APPROVED BY THE CITY.

City of Colorado Springs Stormwater Quality	Figure IP-1 Filter Fabric Inlet Protection Construction Detail and Maintenance Requirements

3-25



BLOCK AND GRAVEL BAG*CURB INLET PROTECTION
NTS

BLOCK AND GRAVEL BAG*CURB INLET PROTECTION NOTES

INSTALLATION REQUIREMENTS

1. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET.

2. CONCRETE BLOCKS ARE TO BE LAID AROUND THE INLET IN A SINGLE ROW ON THEIR SIDES, ABUTTING ONE ANOTHER WITH THE OPEN ENDS OF THE BLOCK FACING OUTWARD.

3. GRAVEL BAGS ARE TO BE PLACED AROUND THE CONCRETE BLOCKS CLOSELY ABUTTING ONE ANOTHER SO THERE ARE NO GAPS.

4. GRAVEL BAGS ARE TO CONTAIN WASHED SAND OR GRAVEL APPROXIMATELY 3/4 INCH IN DIAMETER.

5. BAGS ARE TO BE MADE OF 1/4" INCH WIRE MESH (USED WITH GRAVEL ONLY) OR GEOTEXTILE.

MAINTENANCE REQUIREMENTS

1. CONTRACTOR SHALL INSPECT INLET PROTECTION IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS NO RAINFALL.

2. DAMAGED OR INEFFECTIVE INLET PROTECTION SHALL PROMPTLY BE REPAIRED OR REPLACED.

3. SEDIMENT SHALL BE REMOVED WHEN SEDIMENT HAS ACCUMULATED TO APPROXIMATELY 1/2 THE DESIGN DEPTH OF THE TRAP.

4. INLET PROTECTION SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED WITHIN THE DRAINAGE AREA AS APPROVED BY THE CITY.

* AN ALTERNATE 3/4" TO 1" GRAVEL FILTER OVER A WIRE SCREEN MAY BE USED IN PLACE OF GRAVEL BAGS. THE WIRE MESH SHALL EXTEND ABOVE THE TOP OF THE CONCRETE BLOCKS AND THE GRAVEL PLACED OVER THE WIRE SCREEN TO THE TOP OF THE CONCRETE BLOCKS.

City of Colorado Springs Stormwater Quality	Figure IP-3 Block & Gravel Bag Curb Inlet Protection Construction Detail and Maintenance Requirements

3-27

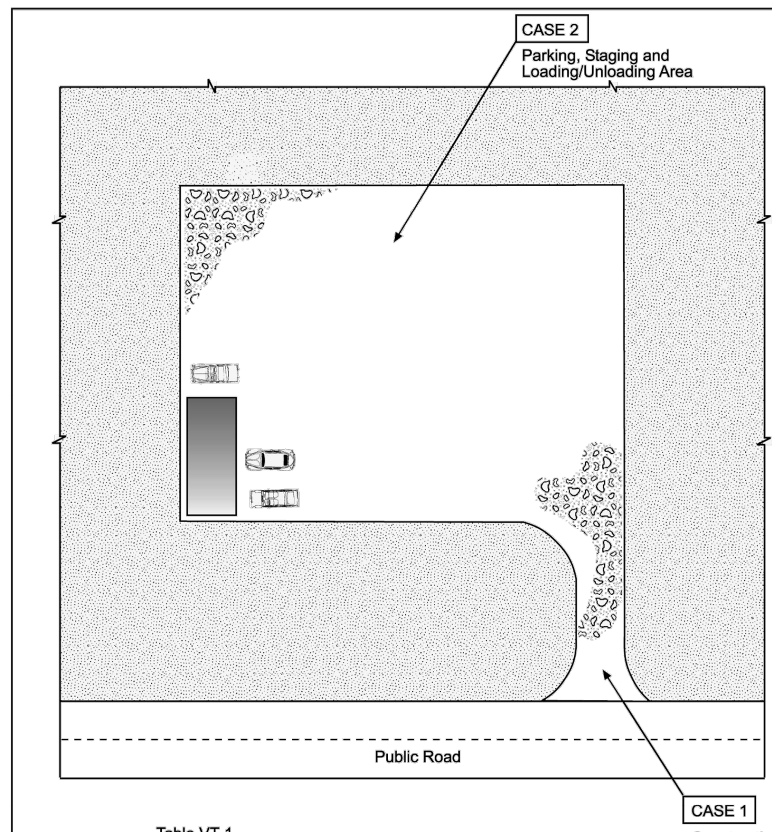


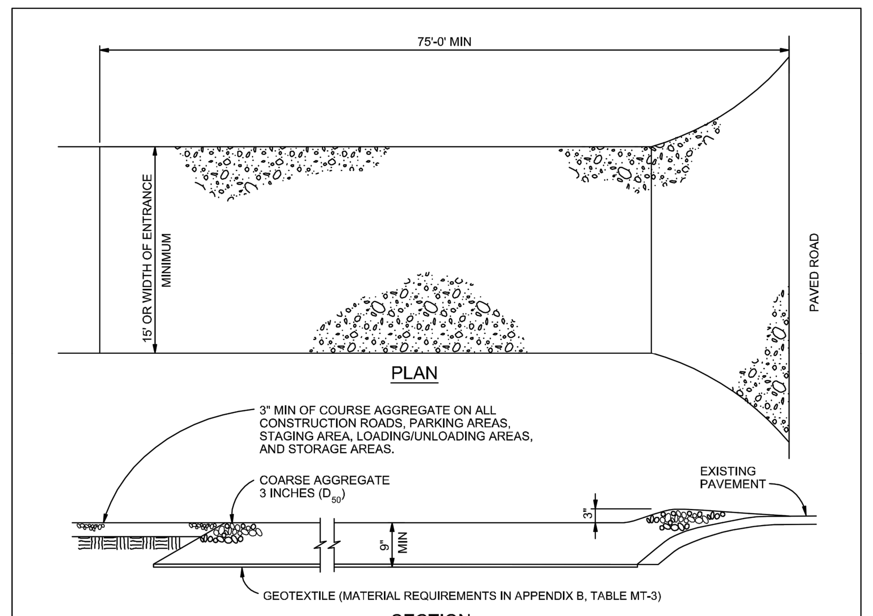
Table VT-1

	Case 1	Case 2
Gravel Thickness	9"	3"
Filter Fabric	YES	NO

City of Colorado Springs Storm Water Quality	Figure VT-1 Vehicle Tracking Application Examples

DEN/M/153722.CS.CB/FigVT-1/9-99

3-53



VEHICLE TRACKING
NTS

VEHICLE TRACKING NOTES

INSTALLATION REQUIREMENTS

1. ALL ENTRANCES TO THE CONSTRUCTION SITE ARE TO BE STABILIZED PRIOR TO CONSTRUCTION BEGINNING.

2. CONSTRUCTION ENTRANCES ARE TO BE BUILT WITH AN APRON TO ALLOW FOR TURNING TRAFFIC, BUT SHOULD NOT BE BUILT OVER EXISTING PAVEMENT EXCEPT FOR A SLIGHT OVERLAP.

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

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 EXCESSIVELY STEEP.

MAINTENANCE REQUIREMENTS

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL STABILIZED AREAS, ESPECIALLY AFTER STORM EVENTS.

2. STONES ARE TO BE REAPPLIED PERIODICALLY AND WHEN REPAIR IS NECESSARY.

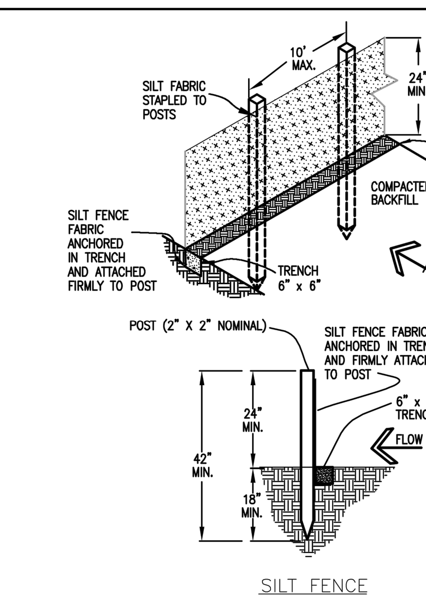
3. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED DAILY BY SHOVELING OR SWEEPING. SEDIMENT IS NOT TO BE WASHED DOWN STORM SEWER DRAINS.

4. STORM SEWER INLET PROTECTION IS TO BE IN PLACE, INSPECTED, AND CLEANED IF NECESSARY.

5. OTHER ASSOCIATED SEDIMENT CONTROL MEASURES ARE TO BE INSPECTED TO ENSURE GOOD WORKING CONDITION.

City of Colorado Springs Stormwater Quality	Figure VT-2 Vehicle Tracking Application Examples

3-54



SILT FENCE NOTES

INSTALLATION REQUIREMENTS

1. SILT FENCES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

2. WHEN JOINTS ARE NECESSARY, SILT FENCE GEOTEXTILE SHALL BE SPLICED TOGETHER ONLY AT SUPPORT POST AND SECURELY SEALED.

3. METAL POSTS SHALL BE "STUDDED TEE" OR "U" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.

4. THE FILTER MATERIAL SHALL BE FASTENED SECURELY TO METAL OR WOOD POSTS USING WIRE TIES, OR TO WOOD POSTS WITH 3/4" LONG #9 HEAVY-DUTY STAPLES. THE SILT FENCE GEOTEXTILE SHALL NOT BE STAPLED TO EXISTING TREES.

5. WHILE NOT REQUIRED, WIRE MESH FENCE MAY BE USED TO SUPPORT THE GEOTEXTILE. WIRE FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 3/4" LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 6" AND SHALL NOT EXTEND MORE THAN 3' ABOVE THE ORIGINAL GROUND SURFACE.

6. ALONG THE TOE OF FILLS, INSTALL THE SILT FENCE ALONG A LEVEL CONTOUR AND PROVIDE AN AREA BEHIND THE FENCE FOR RUNOFF TO POND AND SEDIMENT TO SETTLE. A MINIMUM DISTANCE OF 5 FEET FROM THE TOE OF THE FILL IS RECOMMENDED.

7. THE HEIGHT OF THE SILT FENCE FROM THE GROUND SURFACE SHALL BE MINIMUM OF 24 INCHES AND SHALL NOT EXCEED 36 INCHES; HIGHER FENCES MAY INPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.

MAINTENANCE REQUIREMENTS

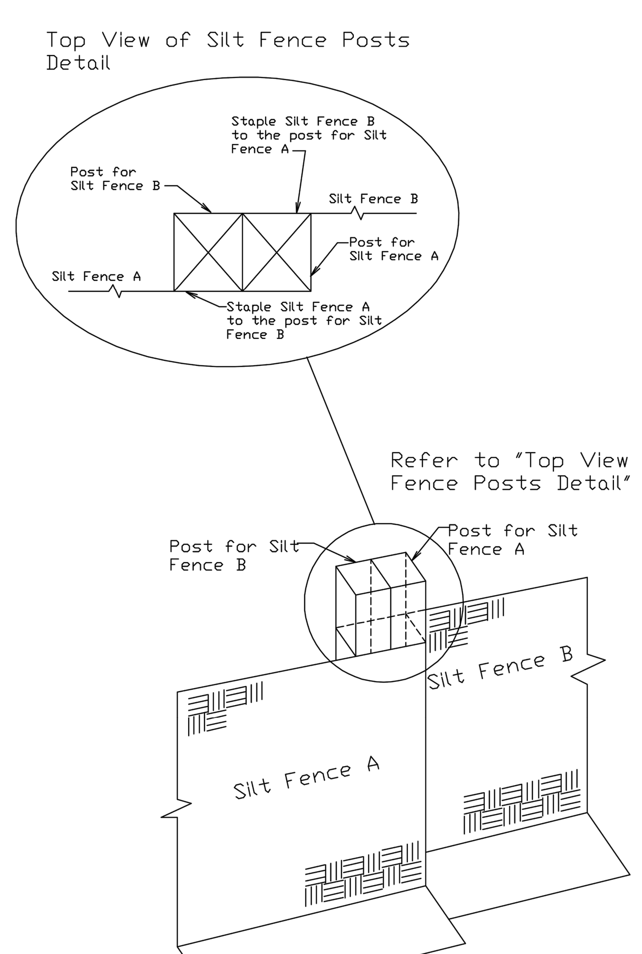
1. CONTRACTOR SHALL INSPECT SILT FENCES IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL. DAMAGED, COLLAPSED, UNENTRENCHED OR INEFFECTIVE SILT FENCES SHALL BE PROMPTLY REPAIRED OR REPLACED.

2. SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE WHEN IT ACCUMULATES TO HALF THE EXPOSED GEOTEXTILE HEIGHT.

3. SILT FENCES SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED AS APPROVED BY THE CITY.

City of Colorado Springs Stormwater Quality	Figure SF-2 Silt Fence Construction Detail and Maintenance Requirements

3-36



City of Colorado Springs Stormwater Quality	Figure SF-3 Silt Fence Joint Tying Construction Detail and Maintenance Requirements

3-37

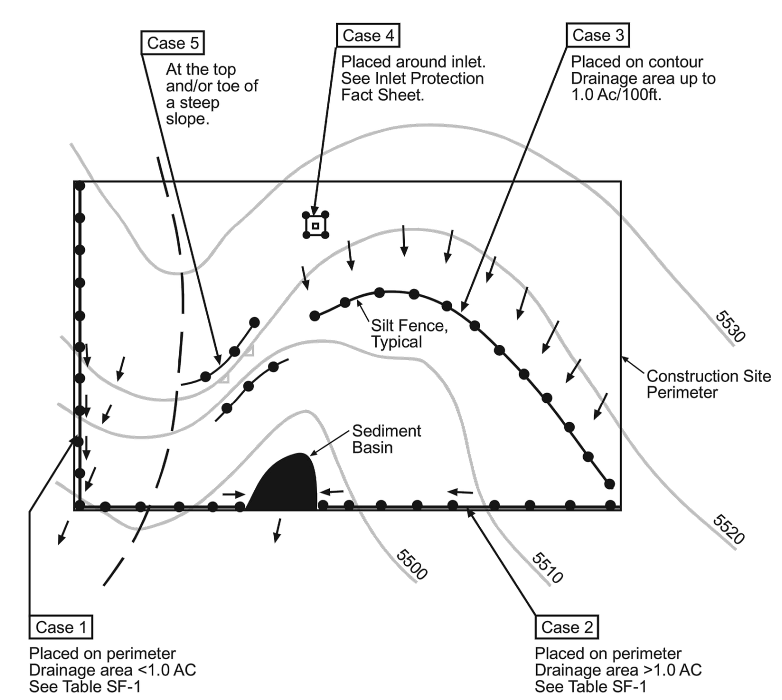


Table SF-1

Silt Fence Used as Perimeter Control	Case 1		Case 2
	DA < 0.25 AC	0.25 < DA < 1 AC	DA > 1.0 AC
Continuous Grade	OK (1)	OK (1)	OK (1)
Area of Concentrated Flow	OK	NO (2)	NO (3)

(1) Temporary Swale or Straw Bale Barrier may be used as alternative to a Silt Fence.
(2) Check Dam may also be used as alternative to Silt Fence at low point.
(3) Sediment Basin is required for concentrated flow from drainage areas > 1.0 AC.

City of Colorado Springs Storm Water Quality	Figure SF-1 Silt Fence Application Examples

DEN/M/153722.CS.CB/FigSF-1/9-99

3-35

GENERAL NOTES

1. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DUE TO WIND AND RUNOFF. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL FACILITIES SHOWN.
2. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO UNFORESEEN PROBLEMS OR IF THE PLAN DOES NOT FUNCTION AS INTENDED.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING DRAINAGE AND EROSION CONTROL FACILITIES AS REQUIRED. STREETS SHALL BE KEPT CLEAN OF DEBRIS FROM TRAFFIC FROM THIS SITE.
4. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE PAVED, SEEDED WITH NATIVE VEGETATION, OR LANDSCAPED. REFER TO LANDSCAPE PLANS FOR PERMANENT SEED MIX AND PLANTING SPECIFICATIONS.
5. EROSION CONTROL STRUCTURES BELOW SODDED AREAS MAY BE REMOVED ONCE SOD AND FINAL LANDSCAPING IS IN PLACE. EROSION CONTROL STRUCTURES BELOW SEEDED AREAS MUST REMAIN IN PLACE UNTIL THE ENTIRE AREA HAS ESTABLISHED A MATURE COVERING OF HEALTHY VEGETATION. EROSION CONTROL IN PROPOSED PAVED AREAS SHALL REMAIN IN PLACE UNTIL PAVEMENT IS COMPLETE.
6. THIS PLAN IS ONLY TO BE USED FOR INSTALLATION OF EROSION CONTROL FACILITIES. DO NOT USE THIS PLAN FOR GRADING OR STORM SEWER CONSTRUCTION.
7. CONTRACTOR SHALL USE VEHICLE TRACKING CONTROL AT ALL LOCATIONS WHERE VEHICLES WILL EXIT THE SITE. CONTROL FACILITIES WILL BE MAINTAINED WHILE CONSTRUCTION IS IN PROGRESS, MOVED WHEN NECESSARY, AND REMOVED WHEN SITE IS PAVED.

EL PASO COUNTY GRADING AND EROSION CONTROL NOTES

1. CONSTRUCTION MAT NOT COMMENCE UNTIL A CONSTRUCTION PERMIT IS OBTAINED FROM PLANNING & COMMUNITY DEVELOPMENT AND A PRECONSTRUCTION CONFERENCE IS HELD WITH DEVELOPMENT SERVICES.
2. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF SITE WATERS, INCLUDING WETLANDS.
3. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
4. A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED STORMWATER MANAGER, SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
5. ONCE THE ESQCP HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL BMPS AS INDICATED ON THE GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY DSD INSPECTIONS STAFF.
6. SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 21 CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE, HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SEEDED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMPS SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND ESTABLISHED.
7. TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND EARTH DISTURBANCE AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURSUANT TO STANDARDS AND SPECIFICATION PRESCRIBED IN THE DCM VOLUME II AND THE ENGINEERING CRITERIA MANUAL APPENDIX I.
8. ALL PERSONS ENGAGED IN EARTH DISTURBANCE SHALL IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BMPS IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME II AND IN ACCORDANCE WITH THE STORMWATER MANAGEMENT PLAN (SWMP).
9. ALL TEMPORARY EROSION CONTROL FACILITIES INCLUDING BMPS AND ALL PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF ANY EARTH DISTURBANCE OPERATIONS, SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS, THE SWMP AND THE DCM VOLUME II AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION.
10. ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME.
11. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE DISCHARGE TO A NON-EROSIVE VELOCITY.
12. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
13. EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1.
14. BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
15. VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
17. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
18. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
19. NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
20. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
21. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCHLINE.
22. INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
23. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
24. PRIOR TO ACTUAL CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
25. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
26. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY GROUND ENGINEERING (JOB #: 15-3527, DATED JUNE 12, 2015) 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

MANAGEMENT STRATEGIES

1. VEHICLE TRACKING CONTROL SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE ENTIRE DURATION OF THE PROJECT.
2. THE INLET PROTECTION SHOWN ON THE ENCLOSED EROSION CONTROL PLAN SHALL BE SECURED AND PLACED ACCORDING TO THE DETAILS CONTAINED ON THIS PLAN.
3. THE CONSTRUCTION SUPERINTENDENT SHALL HAVE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION. SUPERINTENDENT RESPONSIBLE FOR SEEING THAT APPROPRIATE CONSTRUCTION WORKERS AND SUBCONTRACTORS ARE AWARE OF ALL PROVISIONS OF THE PLAN.
4. CONTRACTOR SHALL ESTABLISH FINAL LANDSCAPING STABILIZATION PER THE LANDSCAPING PLANS & EROSION CONTROL PLAN IN THIS SET AT THE COMPLETION OF THE PROJECT.
5. CLEAN-UP:
   A. TRANSPORT TRASH AND DEBRIS, AND SURPLUS AND UNACCEPTABLE SOIL MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM.
   B. REMOVE ALL TEMPORARY SHORING, BRACING, EROSION CONTROL, AND OTHER PROTECTION DEVICES WHEN NO LONGER REQUIRED BY CITY.

MAINTENANCE

IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

1. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING AND FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLE OR SITE ONTO ROADWAY MUST BE REMOVED IMMEDIATELY.
2. GRAVEL FILTERS, GRAVEL SOCKS OR OTHER INLET PROTECTION WILL BE CHECKED REGULARLY FOR SEDIMENTATION BUILDUP AND CLEANED AS REQUIRED.

PERFORMANCE STANDARDS

THE GENERAL REQUIREMENTS FOR EROSION CONTROL WORK SHALL BE AS FOLLOWS:

1. ANY LAND DISTURBING ACTIVITY SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION.
2. STRUCTURAL EROSION CONTROL MEASURES INCLUDED IN THE APPROVED PLAN ARE TO BE INSTALLED PRIOR TO SOIL DISTURBANCE. INSTALLATION WILL MEET SPECIFICATIONS SHOWN ON THE DETAIL SHEET. CONTROL MEASURES NECESSARY FOR CONTINUING PHASES OF CONSTRUCTION SHALL BE INSTALLED AS DETAILED IN THE SUBMITTED CONSTRUCTION SCHEDULE OR AS NEEDED IN PROGRESSION TO THE FINAL EROSION CONTROL PLAN.
3. ALL LAND DISTURBING ACTIVITIES SHALL BE DESIGNED, CONSTRUCTED AND COMPLETED IN SUCH A MANNER THAT THE EXPOSURE TIME OF DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST POSSIBLE PERIOD OF TIME.
4. SEDIMENT CAUSED BY ACCELERATED SOIL EROSION SHALL BE REMOVED FROM RUNOFF WATER BEFORE LEAVING THE SITE.
5. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF WATER AROUND, THROUGH OR FROM THE LAND DISTURBING ACTIVITY SHALL BE DESIGNED TO LIMIT THE WATER FLOW TO A NON-EROSIVE VELOCITY.
6. TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND AREAS OF LAND DISTURBANCE GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURSUANT TO APPROVED PLANS AND SPECIFICATIONS.
7. THE PERMITEE IS RESPONSIBLE FOR MAINTENANCE OF ALL EROSION CONTROL STRUCTURES. THESE STRUCTURES ARE TO BE INSPECTED BY THE PERMITEE EVERY 14 DAYS AND AFTER EVERY PRECIPITATION EVENT TO INSURE THEIR EFFICIENCY AND TO EVALUATE MAINTENANCE NEEDS OR PER LOCAL INSPECTION REQUIREMENTS. MAINTENANCE OF THESE STRUCTURES MAY BE DIRECTED AT ANY TIME BY A CITY OR STATE REPRESENTATIVE.
8. THESE STANDARDS DO NOT SUPPLANT ANY CITY, STATE OR FEDERAL REQUIREMENTS. CONTRACTOR SHALL ALWAYS ADHERE TO THE STRICTER STANDARD SHOULD ANY DISCREPANCY ARISE.

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ENT CREDIT UNION
GRADING & EROSION CONTROL PLAN
LOT 1, BLOCK 1,
CLAREMONT RANCH FILING NO. 9B

MARKSHEFFEL RD. AND CONSTITUTION AVE
COLORADO SPRINGS, COLORADO

#	Date	Issue / Description	Init.
1	05/09/18	2nd SUBMITTAL	JSB

Project No:	ECU007
Drawn By:	JJA
Checked By:	JRR
Date:	05/09/18

EROSION CONTORL DETAILS

EPC 7/19/18

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SHEET 4 OF 4