

Facilities Management Facilities Projects

Campus Services Building 1945 Wheeling Street Mail Stop F418 Aurora, Colorado 80045 (303) 724-0623

#### CU Anschutz – Breckenridge Parking Lot Improvements

#### Project Number: 22-116457

#### Friday June 10, 2022 ADDENDUM 1

#### DRAWING SCOPE AND CLARIFICATIONS:

- 1. The following four (4) electrical drawing sheets have been revised and reissued to reflect expanded lighting scope, including head replacement for the re-used light poles and replacement of heads for the existing light poles within the parking lot west of the project site. These drawing sheets are attached to this addendum:
  - a. E-001, Electrical Legends and Notes
  - b. ED-102, Electrical Demolition Site Plan
  - c. E-102, Electrical Site Plan
  - d. E-103, Photometric Site Plan
- 2. The following two (2) civil drawing sheets have been revised and reissued to clarify the construction-phase erosion control requirements and are attached to this addendum:
  - a. C-000, Cover Sheet
  - b. C-001, Civil Notes and Legend
- 3. The following three (3) civil drawing sheets have been added to the construction documents and are attached to this addendum:
  - a. C-251, Erosion Control Details
  - b. C-252, Erosion Control Details
  - c. C-253, Erosion Control Details

#### SPECIFICATIONS CLARIFICATIONS:

1. None

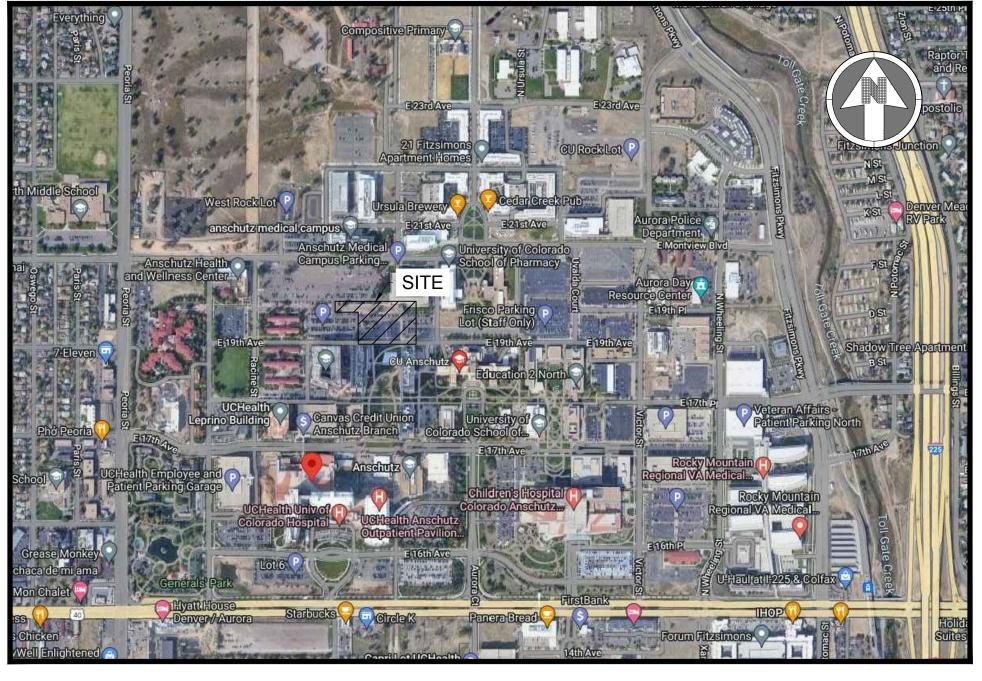
#### ADDITIONAL INFORMATION:

1. Not applicable

#### END OF ADDENDUM 1

# CU ANSCHUTZ - BRECKENRIDGE PARKING LOT IM

FINAL CONSTRUCTION DOCUMENTS - PERMIT ISSUE ISSUE DATE: MAY 31, 2022 UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CAMPUS



## VICINITY MAP

#### OWNER:

ROBERT W. HOLZWARTH PROJECT MANAGER UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CAMPUS 1945 WHEELING STREET AURORA, CO 80045 PHONE: 720-854-4664

#### **CIVIL ENGINEER:**

S.A. MIRO INC. 4582 SOUTH ULSTER STREET SUITE 750 DENVER, CO 80237 PHONE: 303-741-3737

BASIS OF BEARING:

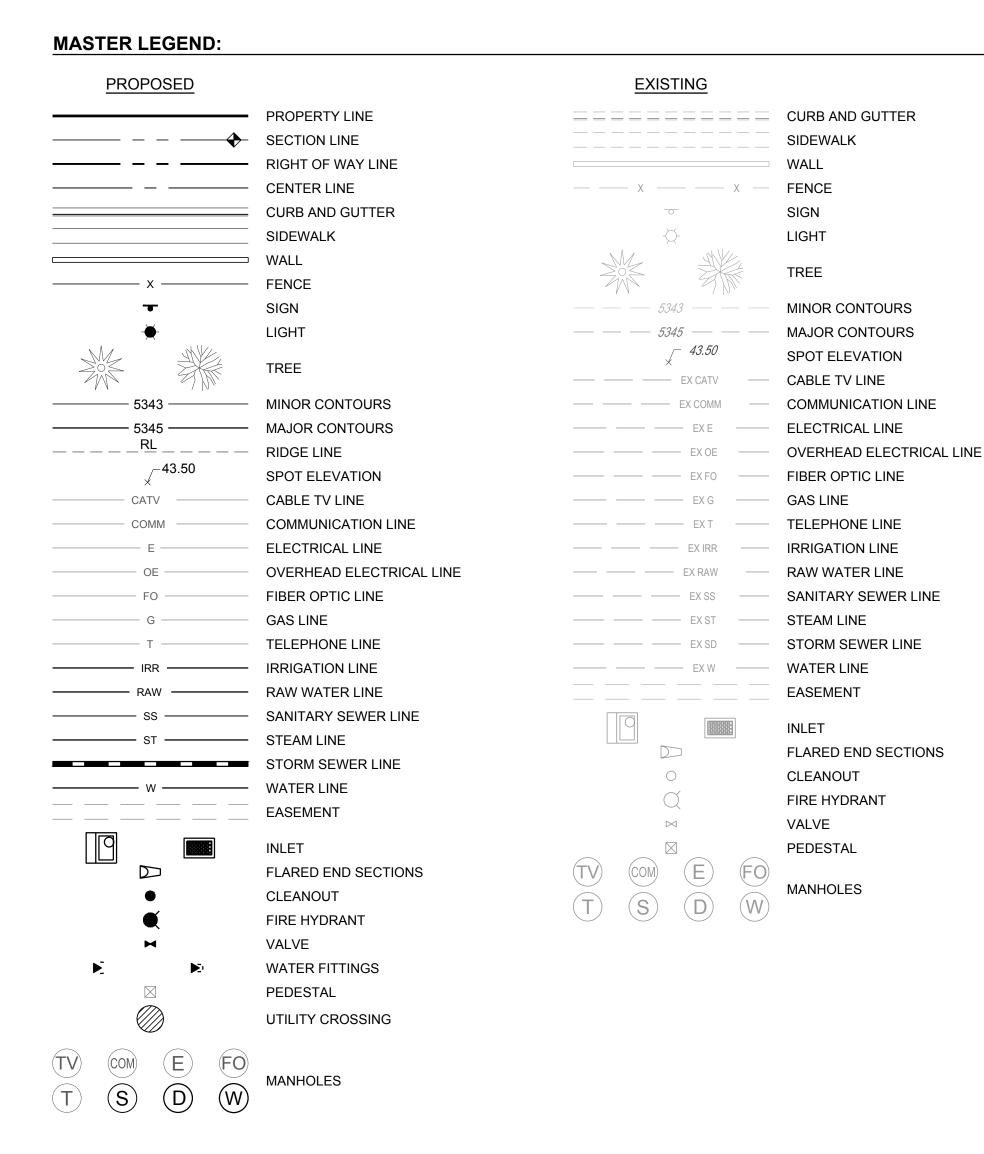
THE BASIS OF BEARING IS BASED ON THE FITZSIMONS SURVEY CONTROL SYSTEM CONTROL IS BASED ON THE LINE BETWEEN JR CONTROL POINT 1320 AND JR CONTROL POINT 1312 BEING S89°44'28"E.

1 C-000	COVER SHEET           CIVIL NOTES, AND LEGEND
C-101 C-121 C-122	DEMOLITION PLAN HORIZONTAL CONTROL PLAN HORIZONTAL CONTROL DATA
C-211 C-221 C-251 C-252	GRADING PLAN CRADING PLAN ENLARGEMENTS EROSION CONTROL DETAILS EROSION CONTROL DETAILS
C-253 C-411 C-421	EROSION CONTROL DETAILS
C-451 C-452 C-511 C-651 E-001	SITE DETAILS SITE DETAILS UTILITY PLAN UTILITY DETAILS ELECTRICAL LEGENDS AND NOTES
L ED-102 E-102 E-103	ELECTRICAL DEMOLITION SITE PLAN ELECTRICAL SITE PLAN PHOTOMETRIC SITE PLAN

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	303-741-3737 www.samiro.com									
DATE	04/06/22	04/29/22	05/31/22	06/09/22						
DESCRIPTION	DESIGN DEVELOPMENT	90% CONSTRUCTION DOCUMENTS	FINAL CONSTRUCTION DOCUMENTS - PERMIT ISSUE	ADDENDUM #1						
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PROJECT:		CU ANSCHUIZ							FILE PATH: J:\Jobs\22017 CUA Breck Lot\05 CAD\Plans and Details\C000-COVR.dwg C000 - 6/9/2022	
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	BENCHMARKS USED:
	COA BENCHMARK 4S6701NW001: 3" BRASS CAP (STAMPED COA BM, G-020A, S-030A, 2003) SET IN SW COR OF C O INLET @ S PCR SE COR E COLFAX AVE & PEORIA ST. ELEVATION = 5389.50 (NAVD88 COA) ELEVATION = 5386.55 (NGVD 29 PROJECT) (NAVD88 COA = NGVD 29 PROJECT + 2.95)
	COA BENCHMARK 3S6735NE002: 3" DIAM. BRASS CAP (STAMPED C.O.A. BM, 5-025, F-20A) ATOP A 30" LONG STEEL PIPE IN CONC. AT THE N.W. COR. OF E. MONTVIEW BLVD. AND PEORIA ST. BEING 16.8 FT. +/- NORTH OF N. F.L. MONTVIEW BLVD, AND 21.3 FT. WEST OF W. F.L. PEORIA ST. ELEVATION = 5371.90 (COA - NAVD88) ELEVATION = 5368.96 (PROJECT - NGVD 29) (NAVD88 COA = NGVD 29 PROJECT + 2.95)
EM.	SITE BENCHMARK: THIS SURVEY IS BASED ON THE FITZSIMONS SURVEY CONTROL SYSTEM. BASIS OF ELEVATIONS: CONTROL POINT 70 ELEV: 5373.50 CONTROL POINT 72 ELEV: 5374.24





#### **ABBREVIATIONS:**

		500	
BFV	BUTTERFLY VALVE	PCC	POINT OF COMPOUND CURVATURE
BOD	BOTTOM OF DUCT BANK	PCR	POINT OF CURB RETURN
BOV	BLOW OFF VALVE	PI	POINT ON INTERSECTION
BW	BOTTOM OF WALL @ FINISHED GRADE	PRC	POINT OF REVERSE CURVATURE
CL	CENTERLINE	PT	POINT OF TANGENCY
CMP	CORRUGATED METAL PIPE	PVC	POLYVINYL CHLORIDE
EJ	EXPANSION JOINT	RCP	REINFORCED CONCRETE PIPE
ELEC.	ELECTRIC	RCB	REINFORCED CONCRETE BOX
ELEV.	ELEVATION	ROW	RIGHT OF WAY
EX	EXISTING	RT	RIGHT
FES	FLARED END SECTION	SD	STORM DRAINAGE SEWER
FL	FLOWLINE	SS	SANITARY SEWER
GB	GRADE BREAK	STA:	STATION
HP	HIGH POINT	STRM	STORM SEWER
FH	FIRE HYDRANT	TOD	TOP OF DUCT BANK
INV.	INVERT	TOF	TOP OF FLANGE
IRR	IRRIGATION	TOP	TOP OF PIPE
KB	KICK BLOCK	TW	TOP OF WALL @ FINISHED GRADE
LF	LINEAR FEET	TYP.	TYPICAL
LP	LOW POINT	VCP	VITRIFIED CLAY PIPE
LT	LEFT	VPC	VERTICAL POINT OF CURVATURE
ME	MATCH EXISTING	VPI	VERTICAL POINT OF INTERSECTION
MH	MANHOLE	VPT	VERTICAL POINT OF TANGENCY
PC	POINT OF CURVATURE	WATR	WATER LINE

#### **GENERAL NOTES:**

- 1. ALL DISTURBED LANDSCAPED AREAS SHALL BE GRADED TO PROPOSED ELEVATIONS. THE OWNER WILL BE RESPONSIBLE FOR FINAL LANDSCAPING AND IMPLEMENTATION, TO INCLUDE ROCK MULCH, BOULDERS, AND ANY PLANTINGS.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- 3. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE WORK SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIFICATIONS IN A SATISFACTORY MANNER. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT, TOOLS, LABOR, AND INCIDENTALS TO COMPLETE THE
- 4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO COMPLETE ALL CONSTRUCTION, GRADING, AND UTILITY WORK. CU ANSCHUTZ IS THE AUTHORITY HAVING JURISDICTION FOR THE SITE, AND THERE IS NO COST FOR CONSTRUCTION PERMITS ON THE CAMPUS. A STATE STORMWATER PERMIT WILL NOT BE REQUIRED, HOWEVER, EROSION CONTROL MEASURES WILL BE REQUIRED. SEE NOTE 5.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING, INSTALLING, AND MAINTAINING CONSTRUCTION BEST MANAGEMENT PRACTICES TO REDUCE POLLUTANTS FROM STORMWATER. THIS SHOULD INCLUDE THE FOLLOWING MEASURES, WHERE APPLICABLE:
- INLET PROTECTIONSILT FENCING
- DUST CONTROL
- EROSION BLANKETS
  SOIL ROUGHENING
- CHECK DAMS
   THE CONTRACTOR SHALL COORDINATE WORK WITH ALL ADJACENT FACILITIES.
   DURING CONSTRUCTION IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT EXISTING UTILITY LINES SHOWN ON THESE PLANS AND THOSE UTILITY LINES WHICH MAY NOT BE SHOWN ON THESE PLANS.
- 8. EXISTING SITE INFORMATION SHOWN ON THESE DRAWINGS IS BASED UPON AVAILABLE SURVEY BY FARNSWORTH GROUP DATED 03/16/22. S.A. MIRO, INC. MAKES NO WARRANTIES OR CERTIFICATION OF THE COMPLETENESS OR ACCURACY OF THE EXISTING CONDITIONS PRESENTED. THE CONTRACTOR SHALL INSPECT THE SITE TO ASSESS EXISTING CONDITIONS, AND SATISFY THEMSELVES THAT THE DOCUMENTS ACCURATELY REPRESENT THE SITE CONDITIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES FOUND DURING INITIAL INSPECTIONS, OR SUBSEQUENTLY, SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY FOR RESOLUTION RELATIVE TO THE INTENDED CONSTRUCTION.
- 9. THE EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED USING FIELD SURVEY DATA LOCATING MANHOLES, WATER VALVES, ELECTRICAL EQUIPMENT, AND OTHER FEATURES FOUND AT THE SURFACE. NO SUBSURFACE EXPLORATION HAS BEEN DONE TO VERIFY EXACT LOCATION OF EXISTING UTILITIES. THE CONTRACTOR SHALL POTHOLE EXISTING UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY POTENTIAL CONFLICT PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BEAR THE FULL COST OF REMOVAL, REPLACEMENT AND DELAY RELATED TO UNVERIFIED EXISTING CONDITIONS. WHERE THE CONTRACTOR FINDS CONFLICTS OR DISCREPANCIES, THEY SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- 11. THE CONTRACTOR SHALL NOTIFY APPROPRIATE ENTITIES FOR UTILITY LOCATES AND START OF CONSTRUCTION PRIOR TO ANY WORK BEING STARTED.
- 12. THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ALL AFFECTED PARTIES PRIOR TO ANY OUTAGES OR SHUTDOWN OF SERVICE.
- 13. ALL QUANTITIES SHOWN ON THESE PLANS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY ALL QUANTITIES PRIOR TO CONSTRUCTION AND ORDERING OF ANY MATERIALS.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
   THE CONTRACTOR SHALL FOLLOW/VERIFY THE INTENT OF THE DESIGN AT ALL LOCATIONS OF TIE-IN TO EXISTING FEATURES.
- 16. IF HAZARDOUS MATERIALS SUCH AS ASBESTOS ARE DISCOVERED DURING EXCAVATION, THE CONTRACTOR SHALL STOP WORK AND PROMPTLY NOTIFY THE OWNER SO THAT PROPER TESTING & ABATEMENT CAN BE COMPLETED SEPARATELY FROM THIS PROJECT. SEE HAZ MAT (ASBESTOS) SITE INFO FOR CU ANSCHUTZ CAMPUS INCLUDED IN PROJECT SPECIFICATIONS.

#### **DEMOLITION NOTES:**

- 1. UNLESS OTHERWISE NOTED, EXISTING UTILITIES AND STRUCTURES SHALL REMAIN AND BE
- PROTECTED IN PLACE.
  2. THE CONTRACTOR SHALL PROTECT ALL ADJACENT IMPROVEMENTS (BUILDINGS, ROADWAYS, FENCES, PARKING LOTS, UTILITIES, ETC.) FROM DAMAGE AND EROSION. ALL DISTURBED AREAS OUTSIDE OF THE LIMITS OF WORK SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.

#### HORIZONTAL CONTROL NOTES:

- THE BASIS OF BEARING IS BASED ON THE FITZSIMONS SURVEY CONTROL SYSTEM. CONTROL IS BASED ON THE LINE BETWEEN JR CONTROL POINT 1320 AND JR CONTROL POINT 1312 BEING S89°44'28"E.
- THE CONTRACTOR SHALL VERIFY THAT BUILDING GRID LOCATIONS ARE CONSISTENT WITH LATEST ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.

#### **PAVING NOTES:**

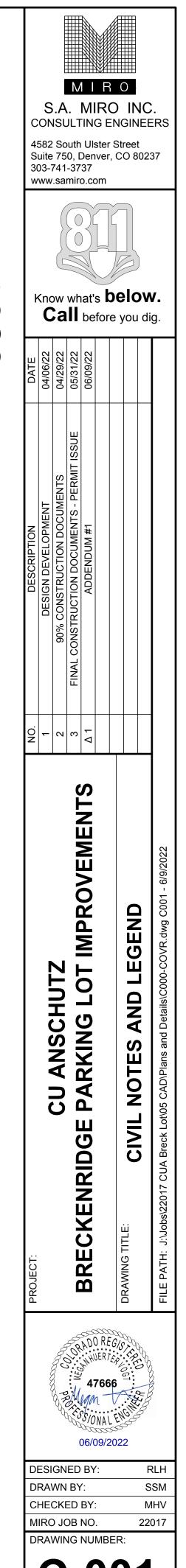
- 1. THE CONTRACTOR SHALL ADJUST EXISTING AND PROPOSED MANHOLES, WATER VALVES AND
- OTHER SURFACE APPURTENANCES WITHIN THE LIMITS OF WORK TO FINISHED GRADE. 2. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL/LANDSCAPE PLANS FOR CONCRETE SCORING
- PATTERNS, COLOR AND FINISHING.
  3. PROPOSED PAVEMENT DESIGN IS BASED UPON CITY OF AURORA'S PAVEMENT DESIGN STANDARDS.
  S.A. MIRO, INC. MAKES NO WARRANTIES OR CERTIFICATION OF PAVEMENT PERFORMANCE.

#### **UTILITY NOTES:**

- 1. LOCATION OF ALL EXISTING UTILITIES (PRIVATE AND PUBLIC) SHALL BE IDENTIFIED AND VERIFIED BY THE CONTRACTOR PRIOR TO MOBILIZATION, CONSTRUCTION AND ORDERING OF MATERIALS. IF ANY CONFLICTS OR DISCREPANCIES ARE FOUND THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL BEAR THE FULL COST OF REMOVAL, REPLACEMENT, REPAIR AND DELAYS RELATED TO ANY AND ALL UNVERIFIED EXISTING CONDITIONS.
- ALL UTILITY LENGTHS AND QUANTITIES SHOWN ON THESE PLANS ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND QUANTITIES PRIOR TO ORDERING OF ANY MATERIALS.
   DIDE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE
- PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
   WHERE FLARED END SECTIONS ARE REQUIRED, THE LENGTH OF PIPE INCLUDES THE FLARED END SECTION.
- ALL UTILITY WORK SHALL BE COMPLETED PRIOR TO ANY PAVING.
   CONTRACTOR SHALL SURVEY THE LOCATION AND ELEVATION OF ALL INSTALLED UTILITIES PRIOR TO TRENCH BACKFILL, AND PROVIDE SURVEY INFORMATION TO THE ENGINEER UPON COMPLETION OF THE PROJECT FOR AS-BUILT DOCUMENTATION.

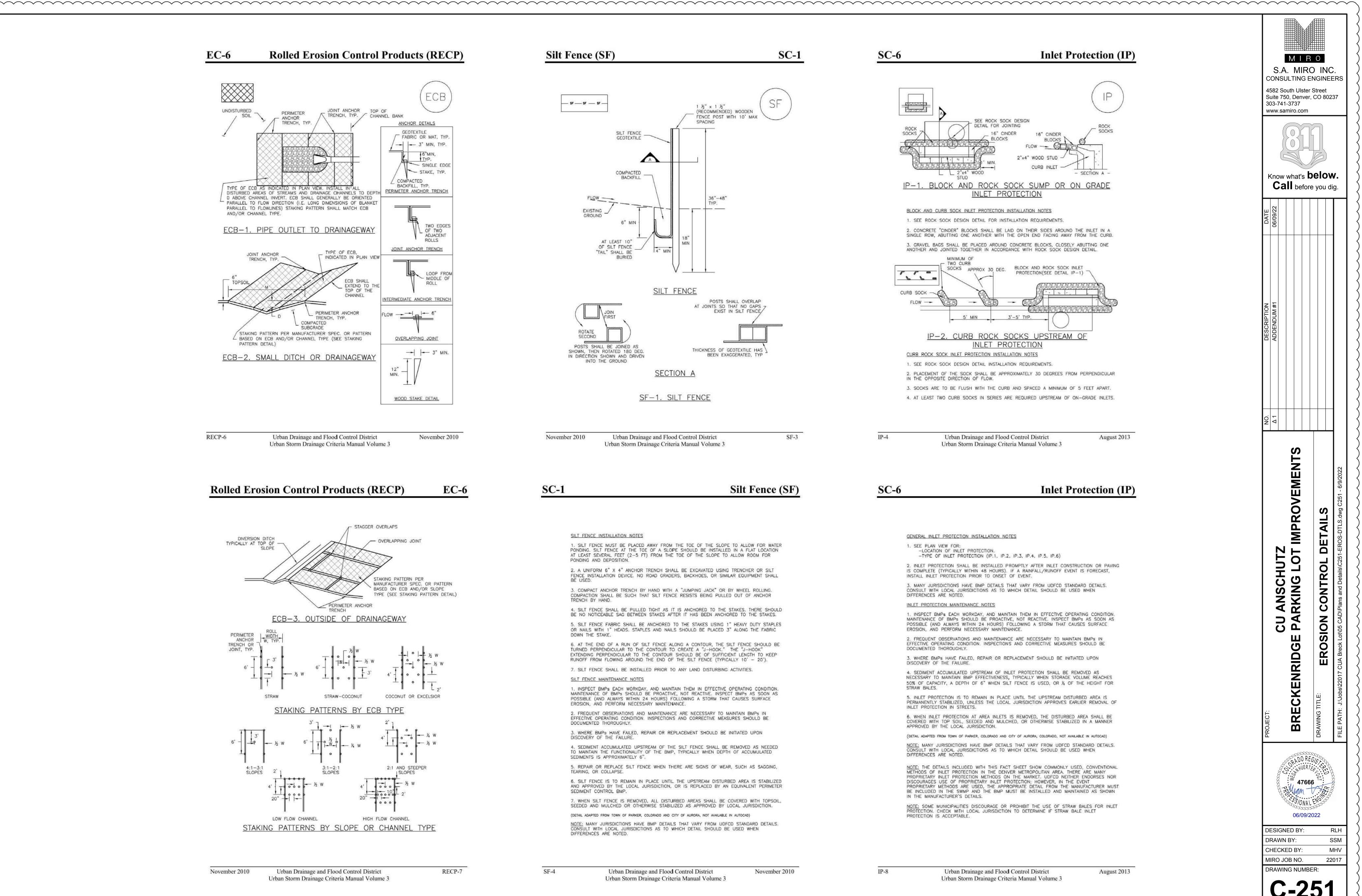
#### **GRADING NOTES:**

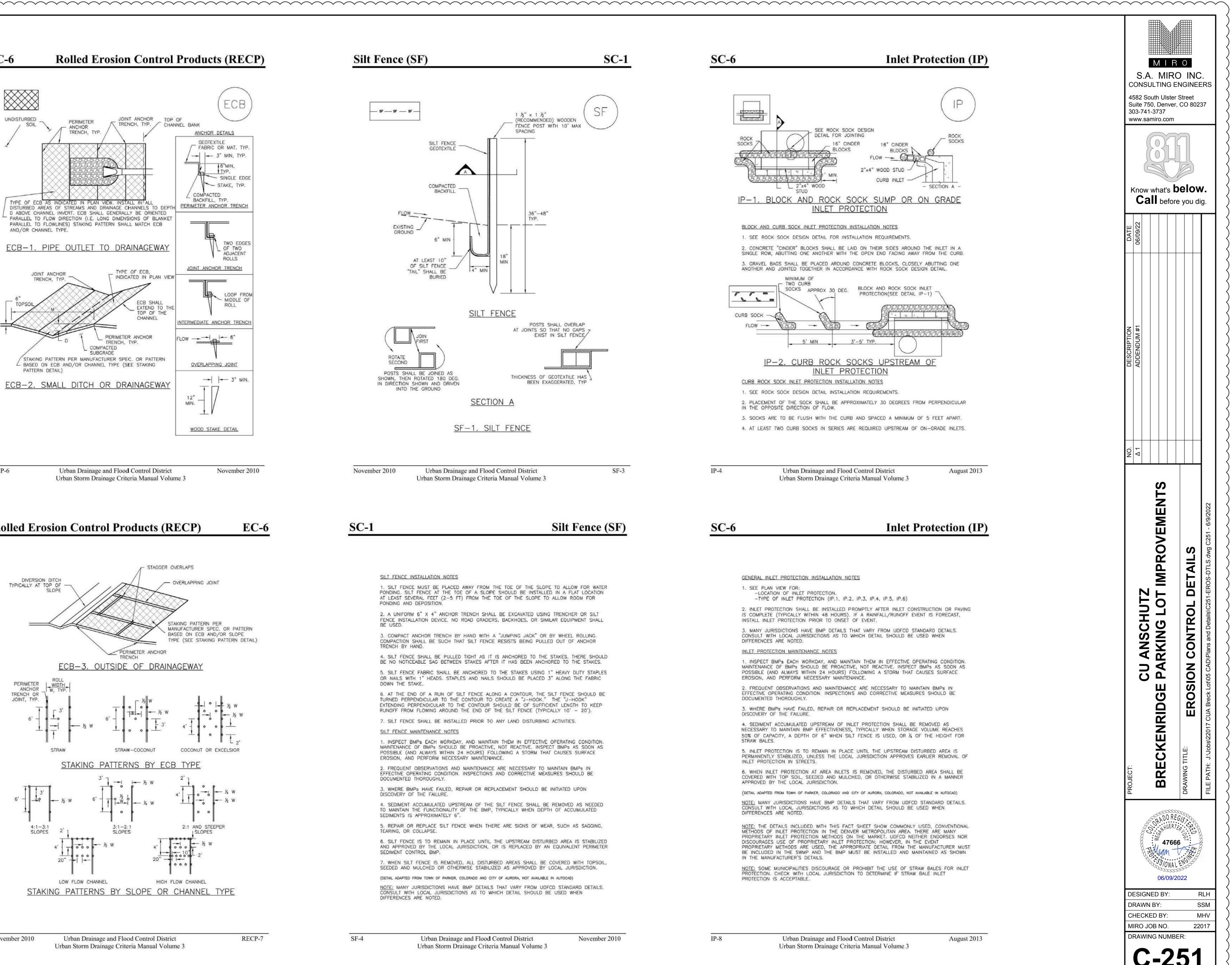
- 1. SITE GRADING (EXCAVATION, EMBANKMENTS, AND COMPACTION) SHALL CONFORM TO THE
- RECOMMENDATIONS OF THE LATEST GEOTECHNICAL REPORT FOR THIS PROPERTY. 2. SPOT ELEVATIONS MAY BE ABBREVIATED FOR CLARITY. REFER TO THE ADJACENT CONTOUR
- 2. SPOT ELEVATIONS MAY BE ABBI LABELS FOR FULL ELEVATIONS.
- 3. MAXIMUM PROPOSED SLOPES SHALL BE 4:1 UNLESS NOTED OTHERWISE.
- SPOT ELEVATIONS ARE TO FLOWLINE UNLESS NOTED OTHERWISE.
   PROPOSED GRADING SHALL MEET AND MATCH EXISTING GRADE AT LIMITS OF DISTURBANCE.
- PROPOSED GRADING AS SHOWN REFLECTS PLANNED FINISHED GRADE. THE CONTRACTOR SHALL ACCOUNT FOR PAVEMENT DEPTH, SUBGRADE REQUIREMENTS, OVEREXCAVATION, TOPSOIL, AND ANY PLANNED SURFACING CONSTRUCTION.
   MAXIMUM TEMPORADY OF OPEN SHALL DE CONSTRUCTED IN ACCORDANCE WITH THE
- MAXIMUM TEMPORARY SLOPES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND IN COMPLIANCE WITH OSHA REQUIREMENTS.
   THE CONTRACTOR SHALL CONFORM TO OVEREXCAVATION REQUIREMENTS DETAILED WITHIN THE
- 8. THE CONTRACTOR SHALL CONFORM TO OVEREXCAVATION REQUIREMENTS DETAILED WITHIN THE PROJECT SPECIFICATIONS. OVEREXCAVATION REQUIREMENTS ARE NOT DEPICTED ON THE CIVIL PLANS.



CU PROJECT NO. 22-116457

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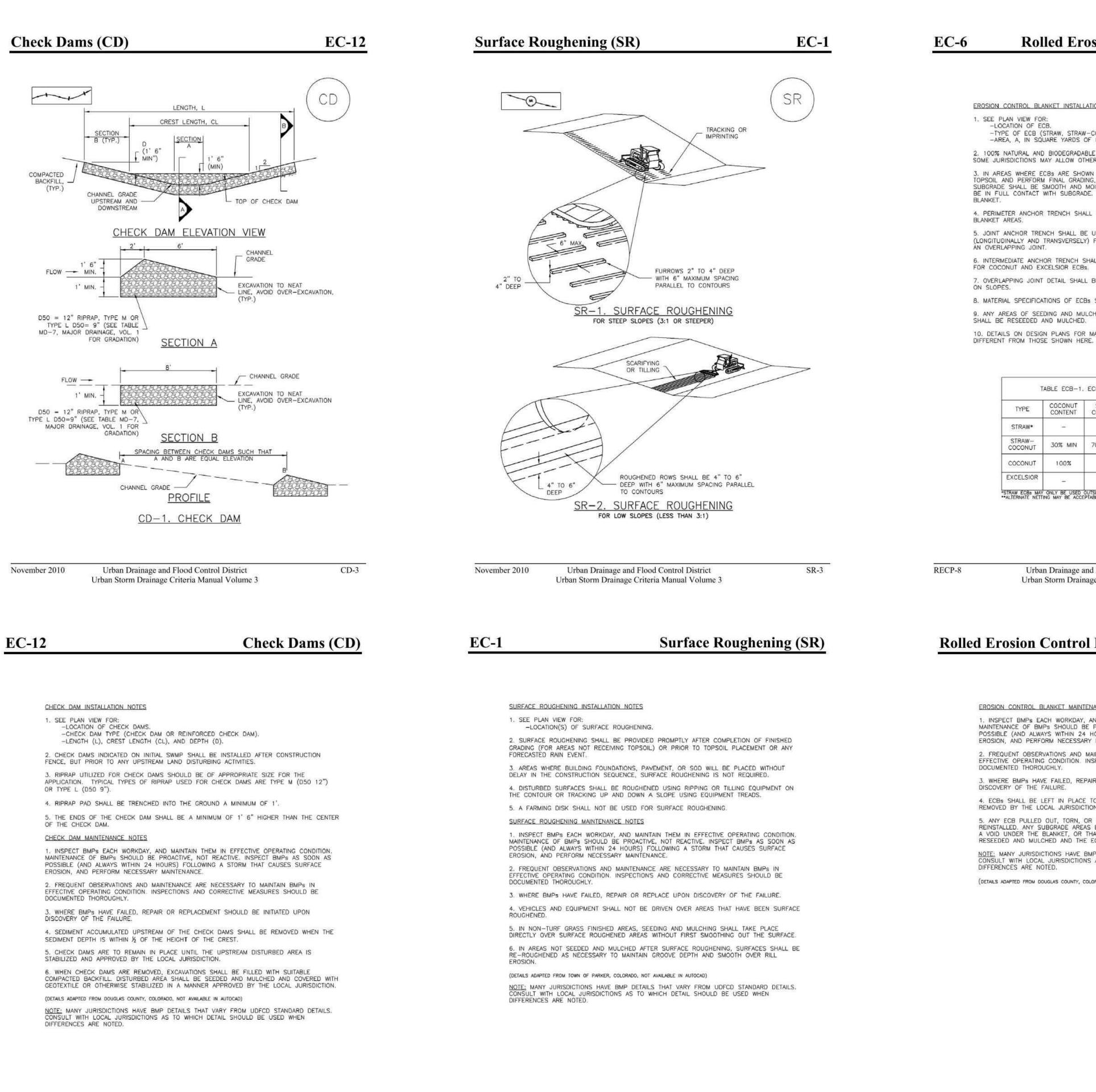




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#### EC-12

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

SR-4

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

November 2010

## **Rolled Erosion Control Products (RECP)**

EROSION CONTROL BLANKET INSTALLATION NOTES

-LOCATION OF ECB.

-TYPE OF ECB (STRAW, STRAW-COCONUT, COCONUT, OR EXCELSIOR), -AREA, A, IN SQUARE YARDS OF EACH TYPE OF ECB.

2. 100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED FOR RECPS, ALTHOUGH SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS.

3. IN AREAS WHERE ECBS ARE SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE

4. PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL

5. JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL ECBs EXCEPT STRAW WHICH MAY USE AN OVERLAPPING JOINT.

6. INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF ROLL LENGTH FOR COCONUT AND EXCELSIOR ECBs.

7. OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs

8. MATERIAL SPECIFICATIONS OF ECBs SHALL CONFORM TO TABLE ECB-1.

9. ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING ECBS SHALL BE RESEEDED AND MULCHED. 10. DETAILS ON DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF

т	ABLE ECB-1.	ECB MATERI	AL SPECIFICAT	IONS
TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDED NETTING**
STRAW*		100%		DOUBLE/ NATURAL
STRAW- COCONUT	30% MIN	70% MAX	<b>.</b>	DOUBLE/ NATURAL
COCONUT	100%			DOUBLE/ NATURAL
EXCELSIOR	:=:	32	100%	DOUBLE/ NATURAL

\*STRAW ECB& MAY ONLY BE USED OUTSIDE OF STREAMS AND DRAINAGE CHANNEL. \*\*ALTERNATE NETTING MAY BE ACCEPTABLE IN SOME JURISDICTIONS

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

#### **Rolled Erosion Control Products (RECP**

EC ( EC-0

November 2010

EROSION CONTROL BLANKET MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

4. ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE REMOVED BY THE LOCAL JURISDICTION

5. ANY ECB PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW THE GEOTEXTILE THAT HAVE ERODED TO CREATED A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE ECB REINSTALLED.

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

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND TOWN OF PARKER COLORADO, NOT AVAILABLE IN AUTOCAD)

PROJECT:		CU ANSCHUIZ				FILE PATH: J:\Jobs\22017 CUA Breck Lot\05 CAD\Plans and Details\C251-EROS-DTLS.dwg C252 - 6/9/2022
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MIRO JOB NO.

DRAWING NUMBER:

CU PROJECT NO. 22-116457

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Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 RECP-9

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#### Description

Wind erosion and dust control BMPs help to keep soil particles from entering the air as a result of land disturbing construction activities. These BMPs include a variety of practices generally focused on either graded disturbed areas or construction roadways. For graded areas, practices such as seeding and mulching, use of soil binders, site watering, or other practices that provide prompt surface cover should be used. For construction roadways, road watering and stabilized surfaces should be considered.

#### **Appropriate Uses**

#### **Design and Installation**

- construction site.

#### Maintenance

November 2010

### Wind Erosion/Dust Control (DC)

EC-14



**Photograph DC-1.** Water truck used for dust suppression. Photo courtesy of Douglas County.

Dust control measures should be used on any site where dust poses a problem to air quality. Dust control is important to control for the health of construction workers and surrounding waterbodies.

The following construction BMPs can be used for dust control:

An irrigation/sprinkler system can be used to wet the top layer of disturbed soil to help keep dry soil particles from becoming airborne.

Seeding and mulching can be used to stabilize disturbed surfaces and reduce dust emissions.

 Protecting existing vegetation can help to slow wind velocities across the ground surface, thereby limiting the likelihood of soil particles to become airborne.

• Spray-on soil binders form a bond between soil particles keeping them grounded. Chemical treatments may require additional permitting requirements. Potential impacts to surrounding waterways and habitat must be considered prior to use.

Placing rock on construction roadways and entrances will help keep dust to a minimum across the

 Wind fences can be installed on site to reduce wind speeds. Install fences perpendicular to the prevailing wind direction for maximum effectiveness.

and	Removal
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When using an irrigation/sprinkler control system to aid in dust control, be careful not to overwater. Overwatering will cause construction vehicles to track mud off-site.

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

Functions Erosion Control Yes Sediment Control No Site/Material Management Moderate

Wind Erosion Control/ **Dust Control** 

DC-1

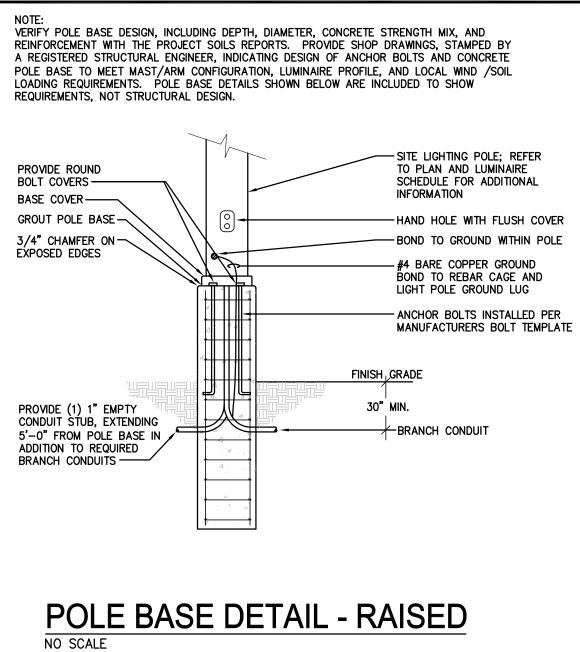
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CU PROJECT NO. 22-116457

SYMBOL	D
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SYMBOL	D
$\Diamond$	KEY NOTE REFERENCE
(LPA-#)	TYPICAL CIRCUIT NUM
) TG# (	TYPICAL LUMINAIRE T
	TYPICAL ROOM REFER
UH	MECHANICAL EQUIPME
	LIGHTING CONTROL/ E

	1
TYPE	
E1	22" DIAMETER POLE DISTRIBUTION, 48 LEI POLE - GARDCO RA5 S
E2	22" DIAMETER POLE MOUN 48 LEDS, 900r POLE - GARDCO RA5 S



BOLT COVERS ----EXPOSED EDGES

LIGHTING LEGEND (Not all symbols listed below are used on these drawings)								
DESCRIPTION	SYMBOL	DESCRIPTION						
ARM MOUNTED								

#### REFERENCE SYMBOLS LEGEND (Not all symbols listed below are used on these drawings)

DESCRIPTION	SYMBOL	DESCRIPTION
CE		KITCHEN/OWNER/MEDICAL EQUIPMENT REFERENCE
MBER	Æ	EXISTING TO REMAIN
TYPE	Ŕ	EXISTING TO BE REMOVED
RENCE (TOP=RM#, BOTTOM=FLR)	Â	EXISTING TO BE RELOCATED
IENT REFERENCE	Æ	EXISTING TO REMAIN - REPLACE DEVICE
EQUIPMENT REFERENCE	Æ	EXISTING TO BE REMOVED AND REPLACED

	LUMINAIRE		SCHEDULE						
DESCRIPTION	LAMPS	VOLT-AMPS	VOLTAGE	MANUFACTURER	CATALOG SERIES	FINISH	MOUNTING	RECESS	NOTES
MOUNTED LED LUMINAIRE, SINGLE HEAD, TYPE 3 DS, 900mA DRIVER, INTERNAL HOUSE SIDE SHIELD SERIES, 5" STRAIGHT ROUND ALUMINUM CAST BASE, 30 FOOT TALL, RAL7038 FINISH	LED 3000K 12,000 LUMENS 70 CRI	135	277	GARDCO	CA22L	RAL7038	30' POLE		
ITED LED LUMINAIRE, DUAL HEAD, TYPE 3 DISTRIBUTIO MA DRIVER, INTERNAL HOUSE SIDE SHIELD SERIES, 5" STRAIGHT ROUND ALUMINUM CAST BASE, 30 FOOT TALL, RAL7038 FINISH	DN, LED 3000K 24,000 LUMENS 70 CRI	270	277	GARDCO	CA22L	RAL7038	30' POLE		

## **GENERAL NOTES:**

- 1. FOR REMODELING, WORK INCLUDED IS DENOTED IN BOLD. EXISTING CONDITIONS TO REMAIN ARE DENOTED LIGHTLY.
- 2. PROTECT STRUCTURE AND OWNER EQUIPMENT FROM DAMAGE. IMMEDIATELY REPLACE OR REPAIR, TO ORIGINAL CONDITION, DAMAGE CAUSED BY THE CONTRACTOR WHETHER EQUIPMENT APPEARS TO BE CURRENTLY IN USE OR NOT, UNLESS WRITTEN AUTHORIZATION FROM THE OWNER INDICATED OTHERWISE. PREPARE LISTING OF ALL EXISTING DAMAGED ITEMS AND SUBMIT TO OWNER PRIOR TO BEGINNING WORK.

- 3. A DETAILED WRITTEN METHOD OF PROCEDURE IS REQUIRED WHEN A CONSTRUCTION ACTIVITY OR AN OUTAGE AFFECTS THE SAFETY OF OCCUPANTS. TELEPHONE/DATA/FIRE ALARM EQUIPMENT OR COMPONENTS OF ANY SYSTEM WHICH SUPPORTS THIS EQUIPMENT OR ESSENTIALLY AFFECTS THE BUILDING MANAGEMENT, OPERATIONS OR SECURITY. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 4. EXISTING INFORMATION SHOWN ON THE DRAWINGS HAS BEEN TAKEN FROM OWNER FURNISHED DRAWINGS AND/OR LIMITED FIELD OBSERVATIONS. CATOR, RUMA & ASSOCIATES IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THESE DRAWINGS.
- 5. FIELD LOCATE EXISTING UNDERGROUND PUBLIC AND OWNER UTILITIES OF ALL TRADES AND BUILDING GROUNDING/LIGHTNING PROTECTION SYSTEMS PRIOR TO ANY EXCAVATION. REPLACE OR REPAIR DAMAGED UTILITIES AND GROUNDING/LIGHTNING PROTECTION SYSTEMS TO ORIGINAL CONDITION.

## **DEMOLITION NOTES:**

- 1. UNLESS NOTED OTHERWISE, BOLD ITEMS INDICATE EQUIPMENT, DEVICES, ETC. TO BE REMOVED. SEE SPECIFICATION SECTION 260500 FOR REMODEL/DEMOLITION DETAILED REQUIREMENTS.
- 2. DEMOLITION DRAWINGS MAY NOT SHOW EVERY ITEM TO BE DEMOLISHED. CONTRACTOR SHALL VISIT SITE TO DETERMINE AND COORDINATE THE EXACT EXTENT OF DEMOLITION TO FACILITATE ALL WORK INDICATED BY THE CONTRACT DOCUMENTS PRIOR TO QUOTATION. NO EXTRAS WILL BE ALLOWED FOR WORK REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY THE CONTRACT DOCUMENTS. REWORK EXISTING TERMINATIONS, CONNECTIONS, CONDUIT, WIRING, ETC. TO ACCEPT NEW WORK. MAINTAIN CIRCUIT CONTINUITY TO EXISTING CIRCUITS AND DEVICES TO REMAIN OR REMODEL/DEMOLITION DETAILED REQUIREMENTS TO BE RELOCATED. PRIOR TO COMMENCEMENT OF ANY DEMO WORK, CONFIRM EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.
- 3. ALL ITEMS IDENTIFIED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY INCLUDING ALL WIRING AND EXPOSED CONDUIT AND CONDUIT SUPPORTS BACK TO POINT OF ORIGIN OR NEXT DEVICE TO REMAIN. REMOVED ITEMS SHALL BE TURNED OVER TO THE OWNER, UNLESS NOTED OTHERWISE, AND STORED IN THE AREA DESIGNATED BY THE OWNER. REMOVE FROM SITE AND LEGALLY DISPOSE OF ALL ITEMS THE OWNER CHOOSES NOT TO ACCEPT.
- 4. WHERE EXISTING CONDUITS ARE SHOWN TO BE REMOVED AND HAVE BEEN ROUTED IN CONCRETE FLOOR SLABS, CONCRETE WALLS OR CONCRETE CEILINGS, THEY SHALL BE CUT BACK FLUSH WITH CONCRETE. FILL WITH GROUT TO ACHIEVE A SMOOTH AND EVEN FINISH FLUSH WITH CONCRETE SURFACE AFTER CONDUCTORS HAVE BEEN REMOVED.
- 5. REUSE EXISTING CONDUIT WHERE CURRENT NEC AND LOCAL CODE REQUIREMENTS ARE MAINTAINED. PROVIDE NEW CONDUIT AND WIRE FOR NEW INSTALLATIONS AND EXTENSION OF EXISTING INSTALLATIONS. REUSE EXISTING CONDUIT IN PLACE, DO NOT REINSTALL EXISTING CONDUIT. PROVIDE LABELING PER SPECIFICATIONS FOR REUSED CONDUIT.

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6. RELOCATED EQUIPMENT AND DEVICES ARE TO BE CLEANED OF ALL FOREIGN MATERIAL. REPLACE EQUIPMENT OR DEVICES WHICH ARE DEFECTIVE OR DAMAGED DURING RELOCATION.

## SITE PLAN NOTES:

1. EXTERIOR LIGHTING, POLE BASES, AND OTHER ELECTRICAL EQUIPMENT AND/OR DEVICES ARE SHOWN DIAGRAMMATICALLY AND ARE NOT NECÉSSARILY SHOWN TO SCALE. IF DIMENSIONS ARE NOT INDICATED ON PLAN DRAWING, SUBMIT PROPOSED SPACINGS AND LOCATIONS WITH DIMENSIONS FOR ACCEPTANCE PRIOR TO INSTALLATION.



MIRO S.A. MIRO INC CONSULTING ENGINEERS Suite 750, Denver, CO 80237

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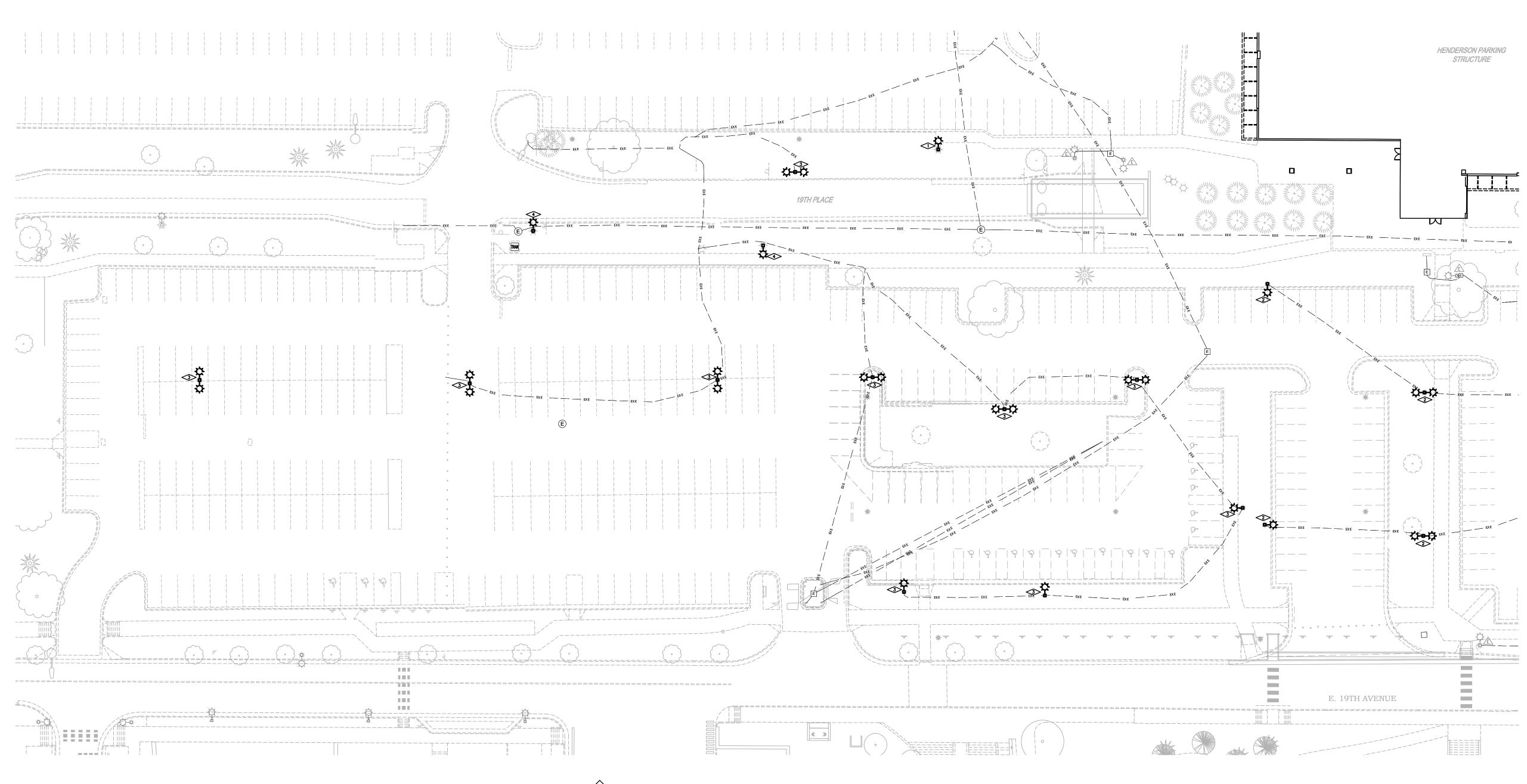
Know what's **below.** Call before you dig.

	ON	DESCRIPTION	DATE
UNIVERSITY OF COLORADO -	~	FINAL CONSTRUCTION DOCUMENTS - PERMIT ISSUE	05/27/22
	2	ADDENDUM #1	06/10/22
ANSCHULZ MEDICAL CAMPUS			
ELECTICAL LEGENDS AND NOTES			

PROJECT: BR	DRAWING TITLE:	FILE PATH:
PRO	DRA	
TH 4182 06/07/2022	ENGININ	ANDARABINITATI
DESIGNED BY:	C	LM
DRAWN BY:	C	LM
CHECKED BY:	N	CW
MIRO JOB NO.	22	017

DRAWING NUMBER:

**E-001** 



# ELECTRICAL DEMOLITION SITE PLAN

## **DEMO NOTES:**

- 1. EXISTING POLE TO REMAIN. HEAD TO BE ROTATED. REFER TO NEW LIGHTING PLAN SHEET E-102 FOR ADDITIONAL INFORMATION.
- 2. POLE AND LED HEAD TO BE REUSED AND RELOCATED. REFER TO NEW LIGHTING PLAN SHEET E-102 FOR ADDITIONAL INFORMATION.
- 3. POLE TO BE RELOCATED. HEAD/HEADS ARE TO BE UPGRADED TO LED. REFER TO NEW LIGHTING PLAN SHEET E-102 FOR ADDITIONAL INFORMATION.
- 4. EXISTING COBRA HEAD LIGHT FIXTURE TO BE REMOVED.



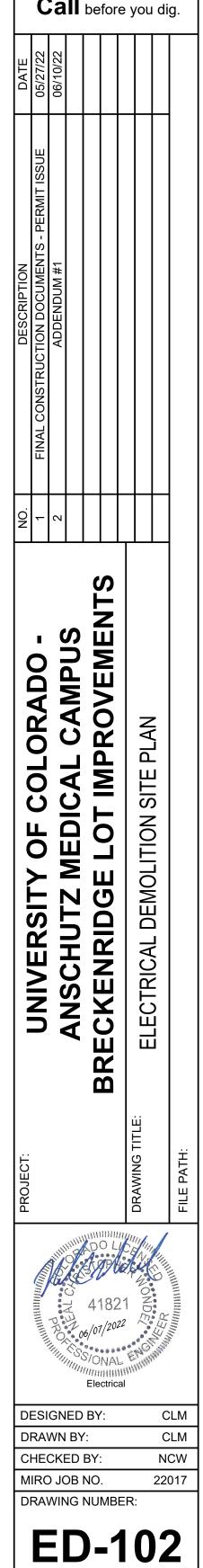
896 Tabor Street, Lakewood, CO 80401 (303) 232-6200 • www.catorhuma.com

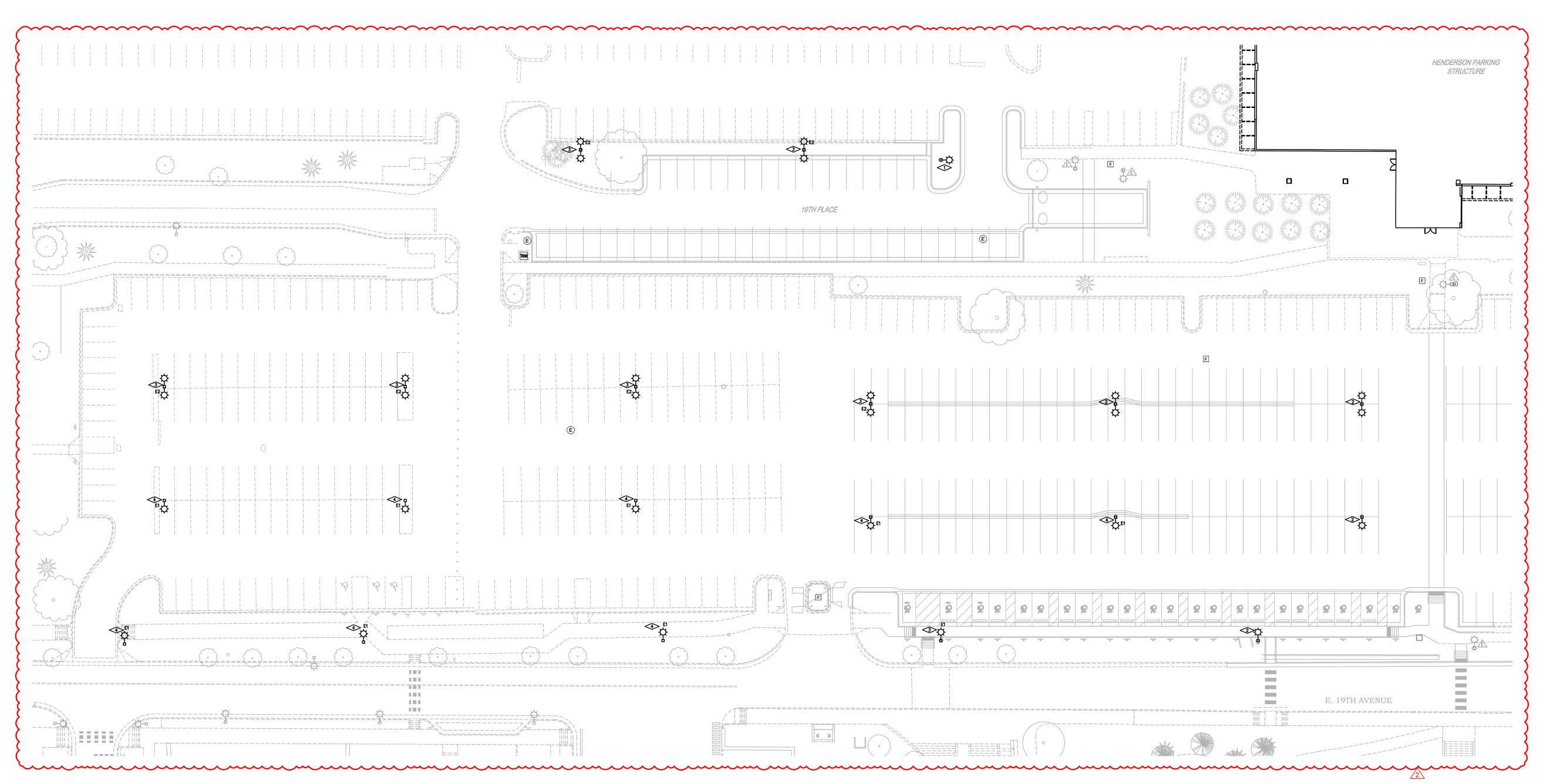
MIRO S.A. MIRO INC CONSULTING ENGINEERS Suite 750, Denver, CO 80237





Call before you dig.







#### **KEY NOTES:**

- 1. EXISTING POLE AND HEAD TO REMAIN. ROTATE EXISTING POLE/HEAD TO THE NEW DIRECTION SHOWN.
- 2. POLE AND LED HEAD TO BE REUSED AND RELOCATED. RECONNECT TO EXISTING CIRCUIT AND EXISTING LIGHTING CONTROL SYSTEM.
- 3. POLE TO BE RELOCATED. HEAD/HEADS ARE TO BE UPGRADED TO LED. REFER TO LUMINAIRE SCHEDULE FOR MORE INFORMATION. RECONNECT TO EXISTING CIRCUIT AND EXISTING LIGHTING CONTROL SYSTEM.
- 4. NEW POLE AND NEW LED HEAD TO BE PROVIDED. REFER TO LUMINAIRE SCHEDULE FOR MORE INFORMATION. CONNECT TO NEAREST EXISTING PARKING LOT LIGHTING CIRCUIT AND EXISTING LIGHTING CONTROL SYSTEM.

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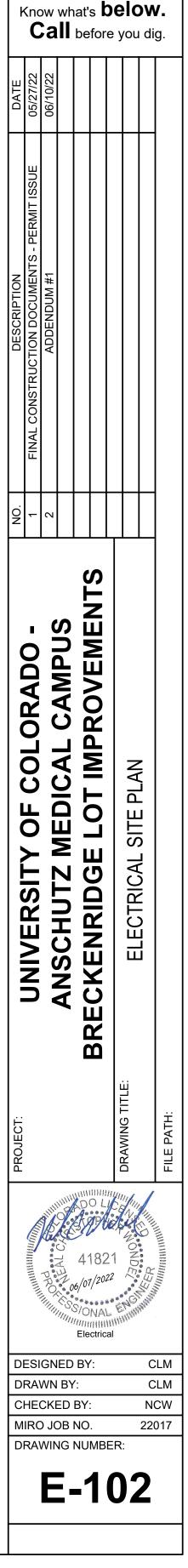




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Know what's **below.** 



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PHOTOMETRIC SITE PLAN SCALE: 1"= 30'	
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## **KEY NOTES:**

1. EXISTING POLE AND HEAD TO REMAIN. ROTATE EXISTING POLE/HEAD TO THE NEW DIRECTION SHOWN.

- 2. POLE AND LED HEAD TO BE REUSED AND RELOCATED. RECONNECT TO EXISTING CIRCUIT AND EXISTING LIGHTING CONTROL SYSTEM.
- POLE TO BE RELOCATED. HEAD/HEADS ARE TO BE UPGRADED TO LED. REFER TO LUMINAIRE SCHEDULE FOR MORE INFORMATION. RECONNECT TO EXISTING CIRCUIT AND EXISTING LIGHTING CONTROL SYSTEM.
- 4. NEW POLE AND NEW LED HEAD TO BE PROVIDED. REFER TO LUMINAIRE SCHEDULE FOR MORE INFORMATION. CONNECT TO NEAREST EXISTING PARKING LOT LIGHTING CIRCUIT AND EXISTING LIGHTING CONTROL SYSTEM.

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DATE	05/27/22	06/10/22			
DESCRIPTION	FINAL CONSTRUCTION DOCUMENTS - PERMIT ISSUE	ADDENDUM #1			
NO.	ſ	2			

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UNIVERSITY OF COLORADO -ANSCHUTZ MEDICAL CAMPUS BRECKENRIDGE LOT IMPROVEMENT PHOTOMETRIC SITE PLAN VING TITLE: ADO LICE 41821 66/07/2022 ONA' Electrical DESIGNED BY: CLM CLM DRAWN BY: NCW CHECKED BY: 22017 MIRO JOB NO. DRAWING NUMBER: E-103