

LIBERTY TREE ACADEMY SITE DEVELOPMENT PLAN

TOWN OF PEYTON, EL PASO COUNTY

PRELIMINARY

MAY 2018



INDEX OF SHEETS

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LAND USE SUMMARY

PARCEL AREA:	10.7 acres
PROJECT AREA:	3.4 acres
BUILDING AREA (PHASE 1):	41,585 sf
FAR:	0.28

CIVIL ENGINEER

MATRIX DESIGN GROUP
1601 BLAKE STREET, SUITE 200
DENVER, CO. 80202
PH: 303-572-0200
FAX: 303-572-0202
CONTACT: DAVE KLINE, P.E., PTOE
DAVE_KLINE@MATRIXDESIGNGROUP.COM

LANDSCAPE ARCHITECT

MATRIX DESIGN GROUP
1601 BLAKE STREET, SUITE 200
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PH: 303-572-0200
FAX: 303-572-0202
CONTACT: TERESA ROBERSON
TERESA_ROBERSON@MATRIXDESIGNGROUP.COM

LEGAL DESCRIPTION:

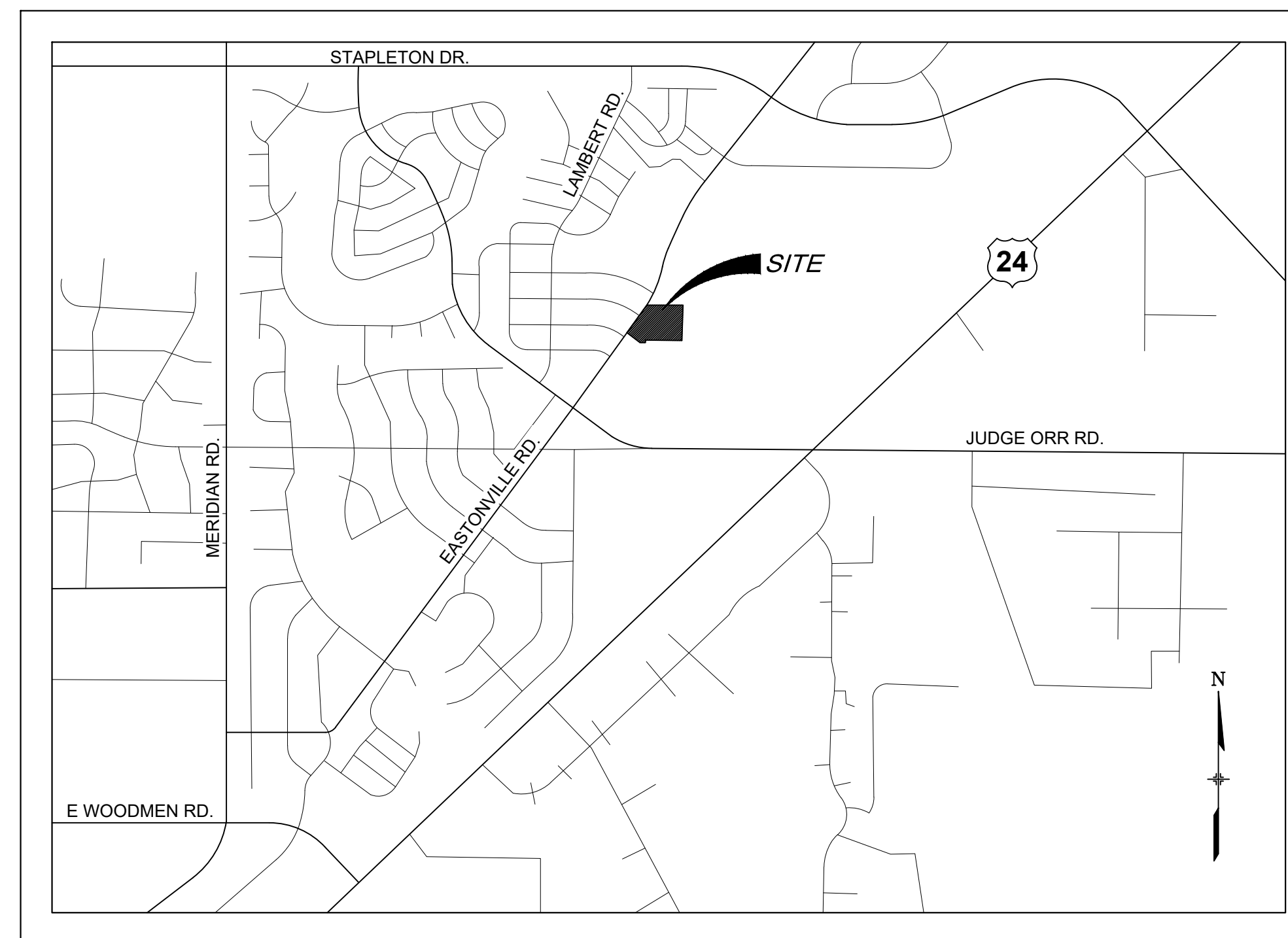
LOT 1178, WOODMEN HILLS FILING NO. 10
COUNTY OF EL PASO
STATE OF COLORADO

BASIS OF BEARING:

BASIS OF BEARINGS: BEARINGS ARE BASED ON GRID BEARINGS OF THE COLORADO STATE PLANE CENTRAL ZONE, BASED ON THE EAST LINE OF LOT 1178 OF THE PLAT OF WOODMEN HILLS FILING NO. 10 AS RECORDED ON JULY 13, 2001 IN THE OFFICE OF THE EL PASO COUNTY CLERK AND RECORDER UNDER RECEPTION NUMBER 201098618, MONUMENTED ON THE NORTH END BY A FOUND 2-1/2" ALUMINUM CAP STAMPED "PLS 38160" AND ON THE SOUTH END BY A FOUND 1-1/2" ALUMINUM CAP STAMPED "PLS 32822", AND BEARS SOUTH 00°24'21" EAST A DISTANCE OF 1116.46 FEET.

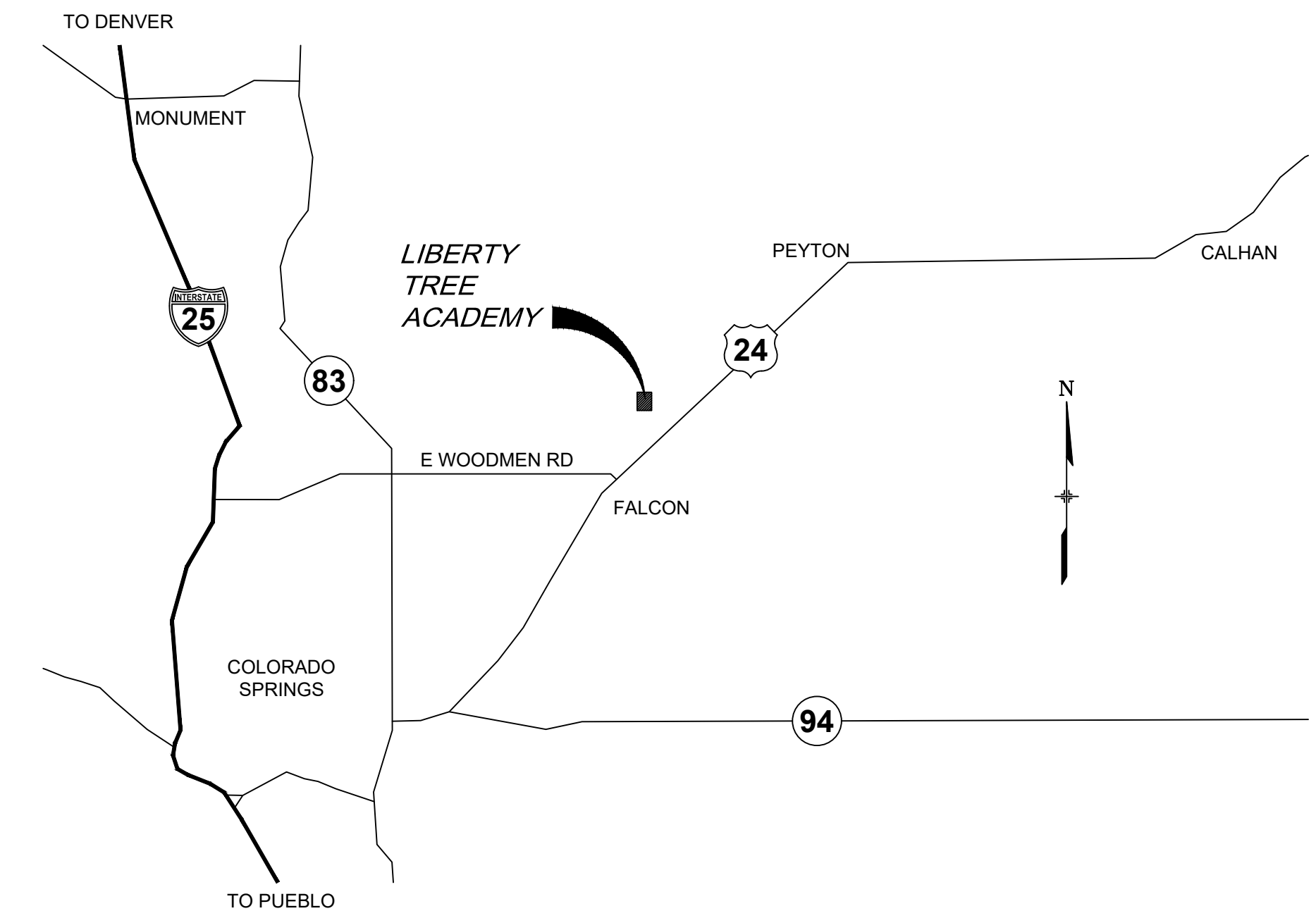
BENCHMARK:

BENCHMARK IS DERIVED FROM AN ONLINE POSITIONING USER SERVICE PROVIDED BY THE NATIONAL GEODETIC SURVEY PERFORMED ON A SET #5 REBAR LOCATED ON THE EAST SIDE OF EASTONVILLE ROAD NEAR THE SOUTH PCR APPROXIMATELY 20 FEET SOUTH OF A SANITARY MANHOLE AND 12 FEET EAST OF A FIRE HYDRANT. THE ELEVATION DERIVED FROM THE STATIC SOLUTION IS 6960.52 U.S. SURVEY FEET (NAVD 88).



LOCATION MAP

SCALE: N.T.S.



VICINITY MAP

SCALE: N.T.S.

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 DIRECTORS DISCRETION.

JENNIFER IRVINE, P.E.

DATE

OWNER/DEVELOPER'S STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

LIBERTY TREE ACADEMY COMPANY

DATE

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 THE 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.

DAVID KLINE, P.E., PTOE

DATE

REFERENCE DRAWINGS

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: R:\18.995.001 (Liberty Tree Academy)\Dwg\Site Development Plan\TS01_SDP.dwg			
CTB FILE: ----			
PLOT DATE: May 3, 2018 4:35:42 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

SHEET KEY



SEAL
PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

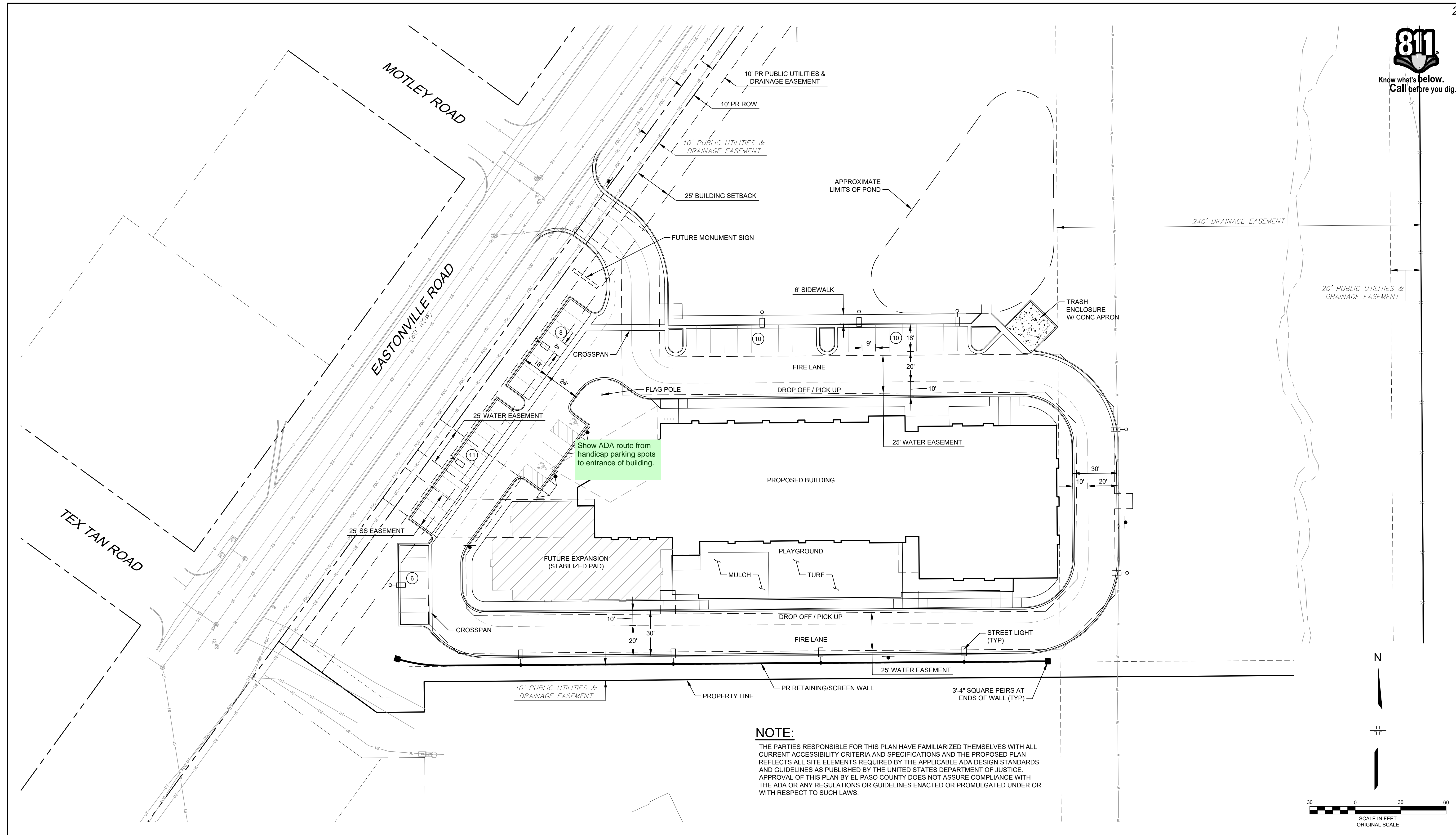
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 18.995.001

DESIGNED BY: ACR
DRAWN BY: ACR
CHECKED BY: DRK
SCALE: _____
DATE ISSUED: MAY 2018
SHEET 1 OF 11
DRAWING No. TS01

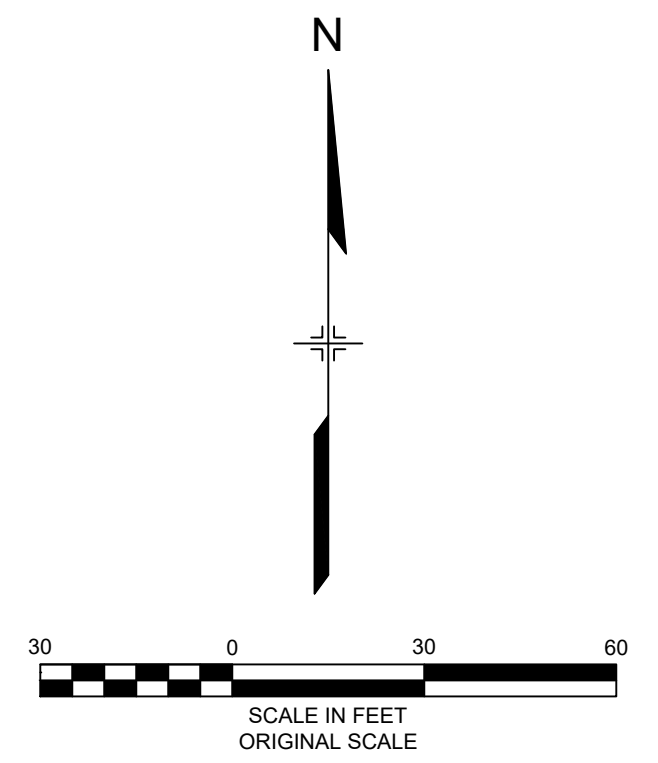
LIBERTY TREE ACADEMY

TOWN OF PEYTON, EL PASO COUNTY
SITE DEVELOPMENT PLAN

TITLE SHEET



NOTE:
 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.



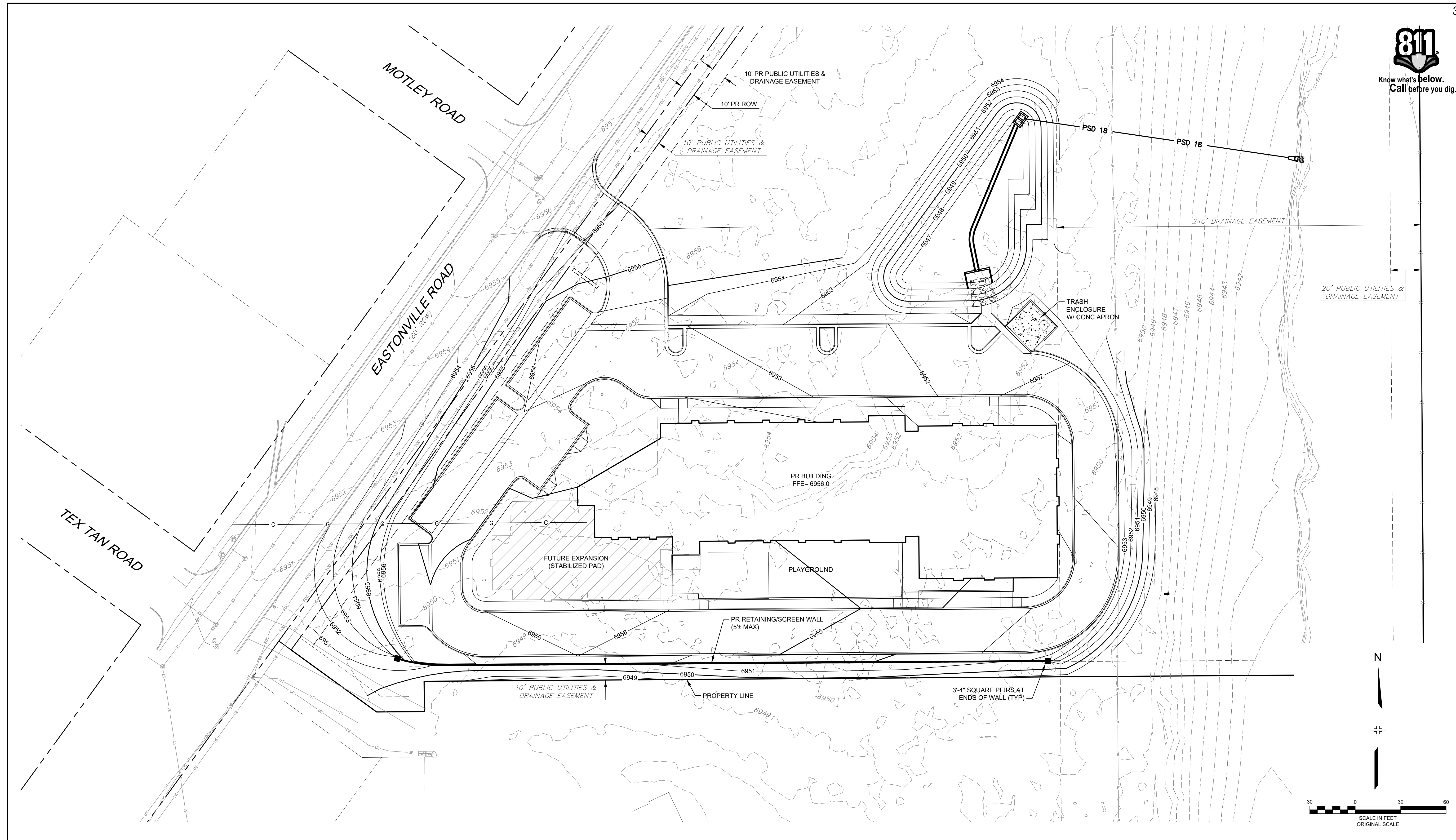
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SHEET KEY	
1	2



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LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY			
SITE DEVELOPMENT PLAN			
SITE PLAN			
DESIGNED BY:	ACR	SCALE:	DATE ISSUED:
DRAWN BY:	ACR	HORIZ.	MAY 2018
CHECKED BY:	DRK	VERT.	SHEET 2 OF 11
			DRAWING No. SP01



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SHEET KEY	
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PREPARED BY:
Matrix
 DESIGN GROUP
 AN EMPLOYEE-OWNED COMPANY

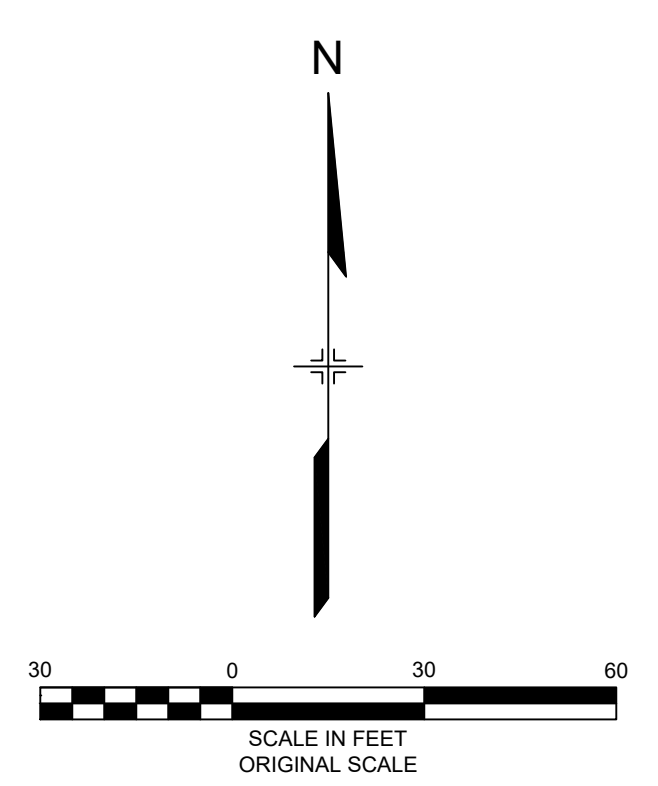
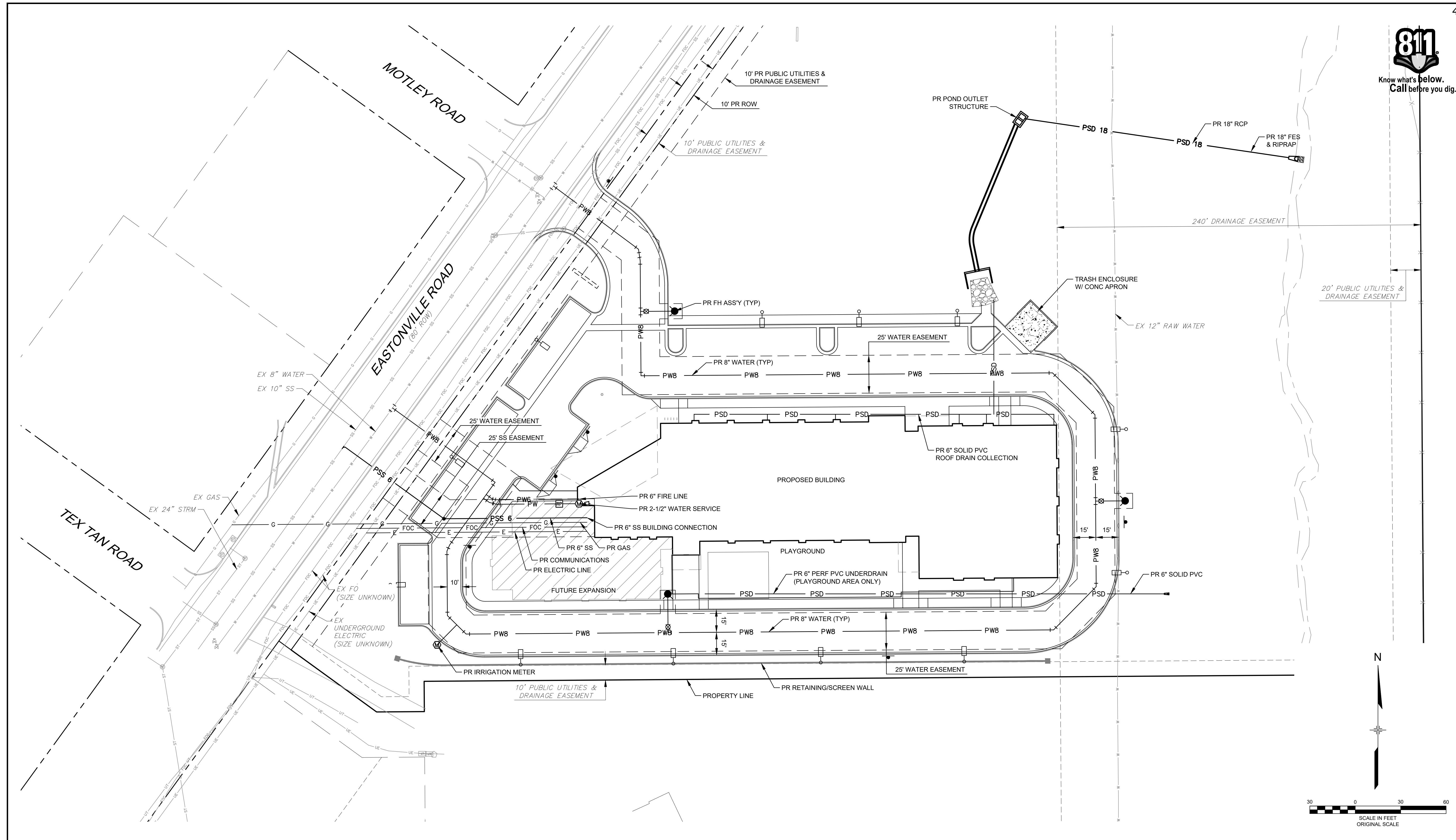
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LIBERTY TREE ACADEMY
 TOWN OF PEYTON, EL PASO COUNTY
 SITE DEVELOPMENT PLAN

GRADING PLAN

DESIGNED BY:	ACR	SCALE:	DATE ISSUED:	MAY 2018	DRAWING No.
DRAWN BY:	ACR	HORIZ.	SHEET	3 OF 11	GR01
CHECKED BY:	DRK	VERT.			

FOR AND ON BEHALF OF
 MATRIX DESIGN GROUP, INC.
 PROJECT No. 18.995.001



No.	DATE	DESCRIPTION	BY
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SHEET KEY	
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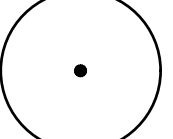
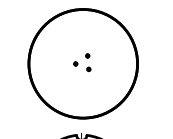
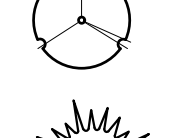
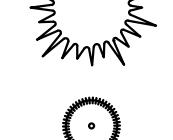
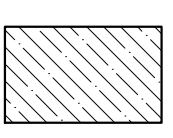
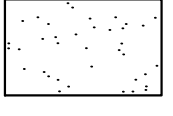



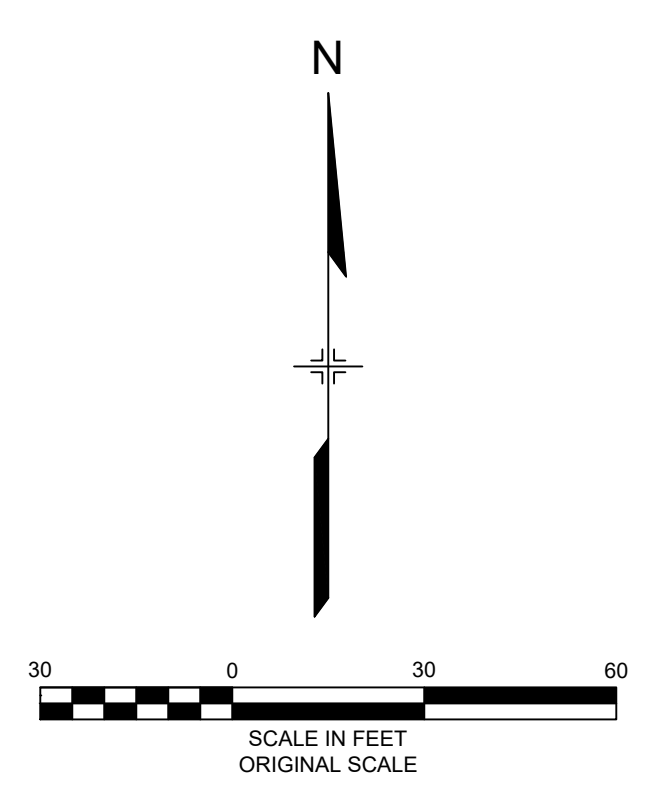
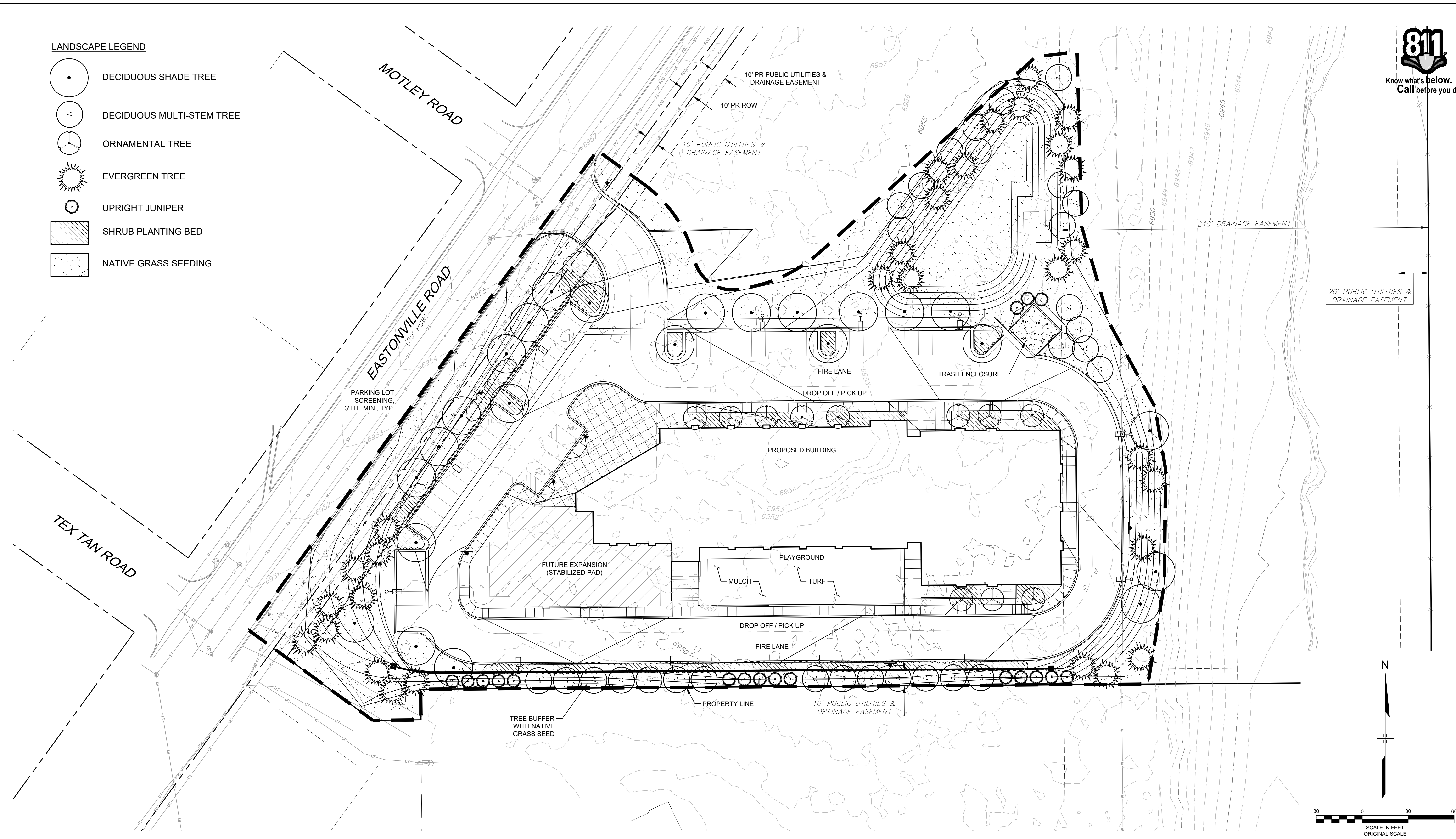
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LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY SITE DEVELOPMENT PLAN			
OVERALL UTILITY PLAN			
DESIGNED BY: ACR	SCALE: _____	DATE ISSUED: MAY 2018	DRAWING No. _____
DRAWN BY: ACR	HORIZ. _____	SHEET 4 OF 11	UT01
CHECKED BY: DRK	VERT. _____		



LANDSCAPE LEGEND

-  DECIDUOUS SHADE TREE
-  DECIDUOUS MULTI-STEM TREE
-  ORNAMENTAL TREE
-  EVERGREEN TREE
-  UPRIGHT JUNIPER
-  SHRUB PLANTING BED
-  NATIVE GRASS SEEDING



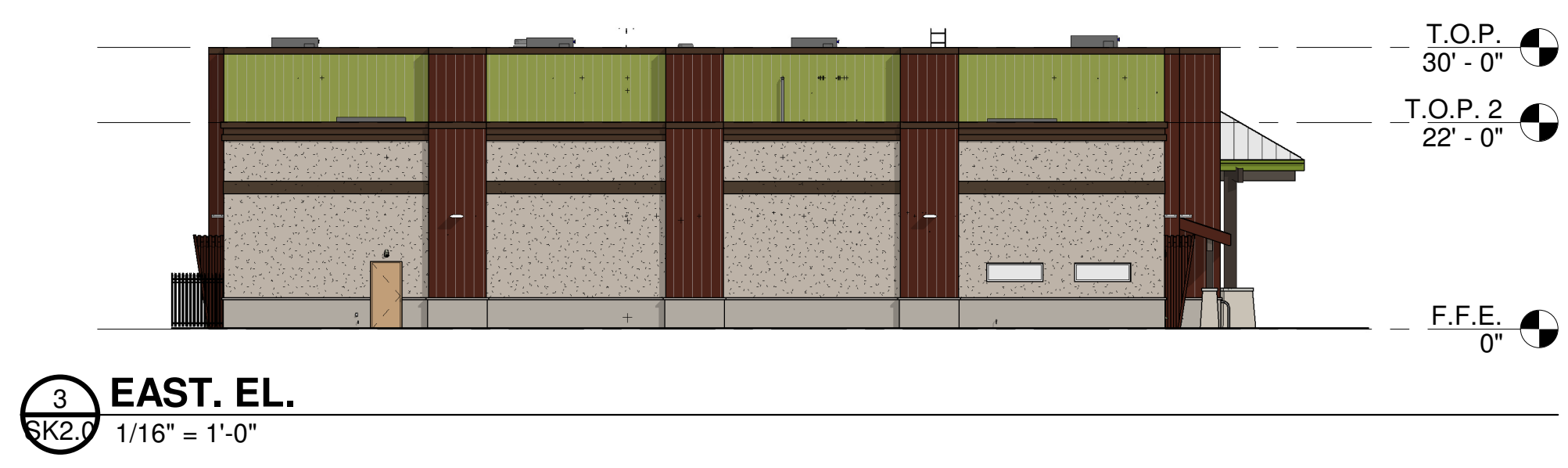
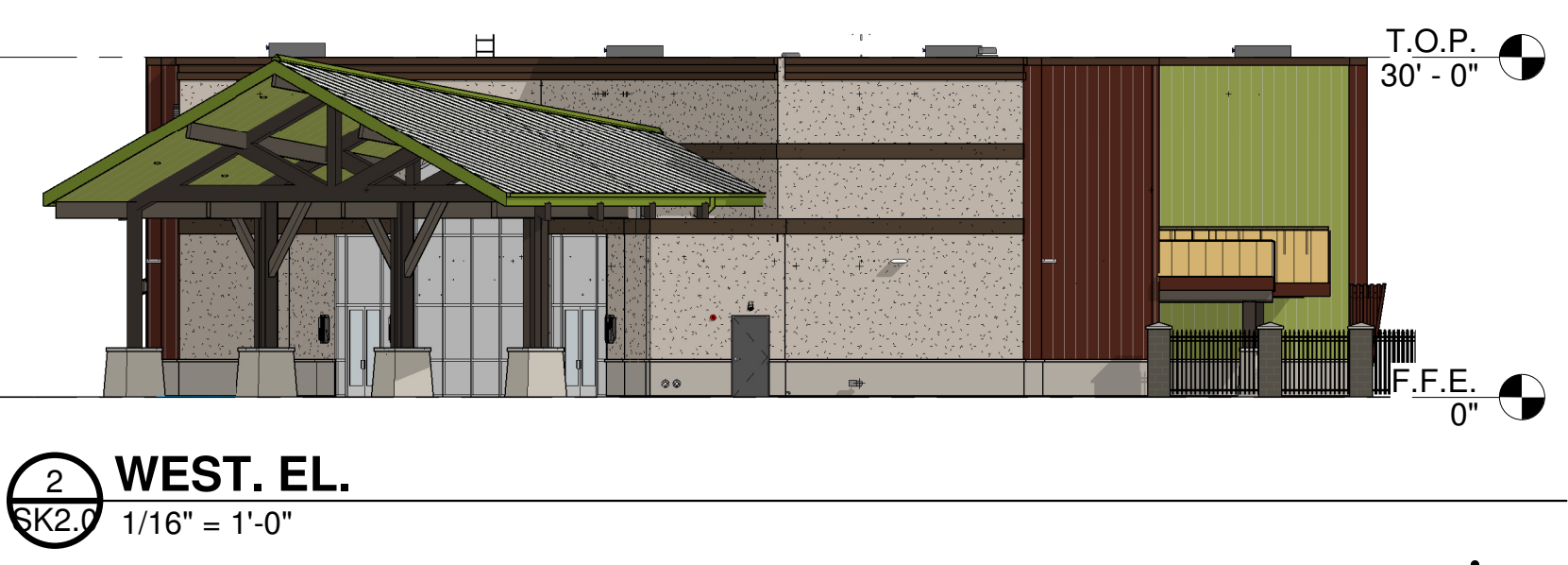
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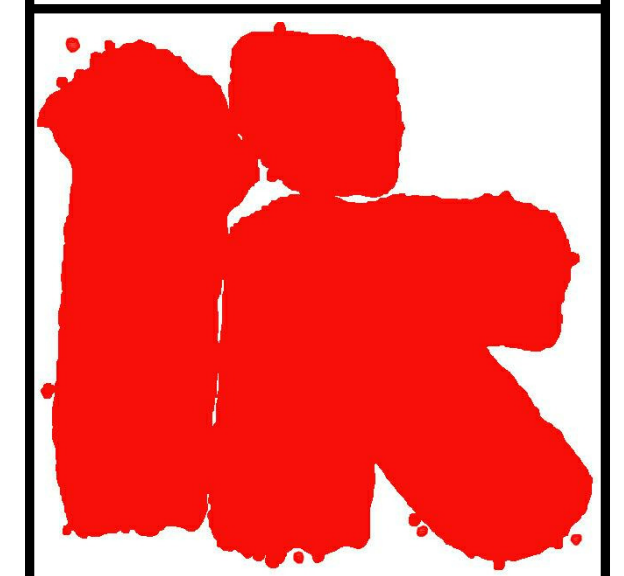


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LIBERTY TREE ACADEMY			
TOWN OF PEYTON, EL PASO COUNTY SITE DEVELOPMENT PLAN			
LANDSCAPE PLAN			
DESIGNED BY: ACR	SCALE: _____	DATE ISSUED: MAY 2018	DRAWING No. _____
DRAWN BY: ACR	HORIZ. _____	SHEET 5 OF 11	LS01
CHECKED BY: DRK	VERT. _____		



LIBERTY TREE ACADEMY



ROBERT KUBIAK
Architects And Associates, Inc.

2233 East Thomas Road
Phoenix, Arizona 85016
(602) 955-3900 RKAA.com

DESIGN	DATE
APPROVAL	APPROVED:

**PRELIMINARY
NOT FOR
CONSTRUCTION**



carhuff+cueva
architects, llc

3149 e prince rd #151
tucson, arizona 85716
phone 520.577.4560
www.cca-az.com

NEW SCHOOL CAMPUS FOR:

LIBERTY TREE ACADEMY

8579 EASTONVILLE RD,
PEYTON, CO 80831

CONSTRUCTION DOCUMENTS

REVISION	DATE	DESCRIPTION	BY

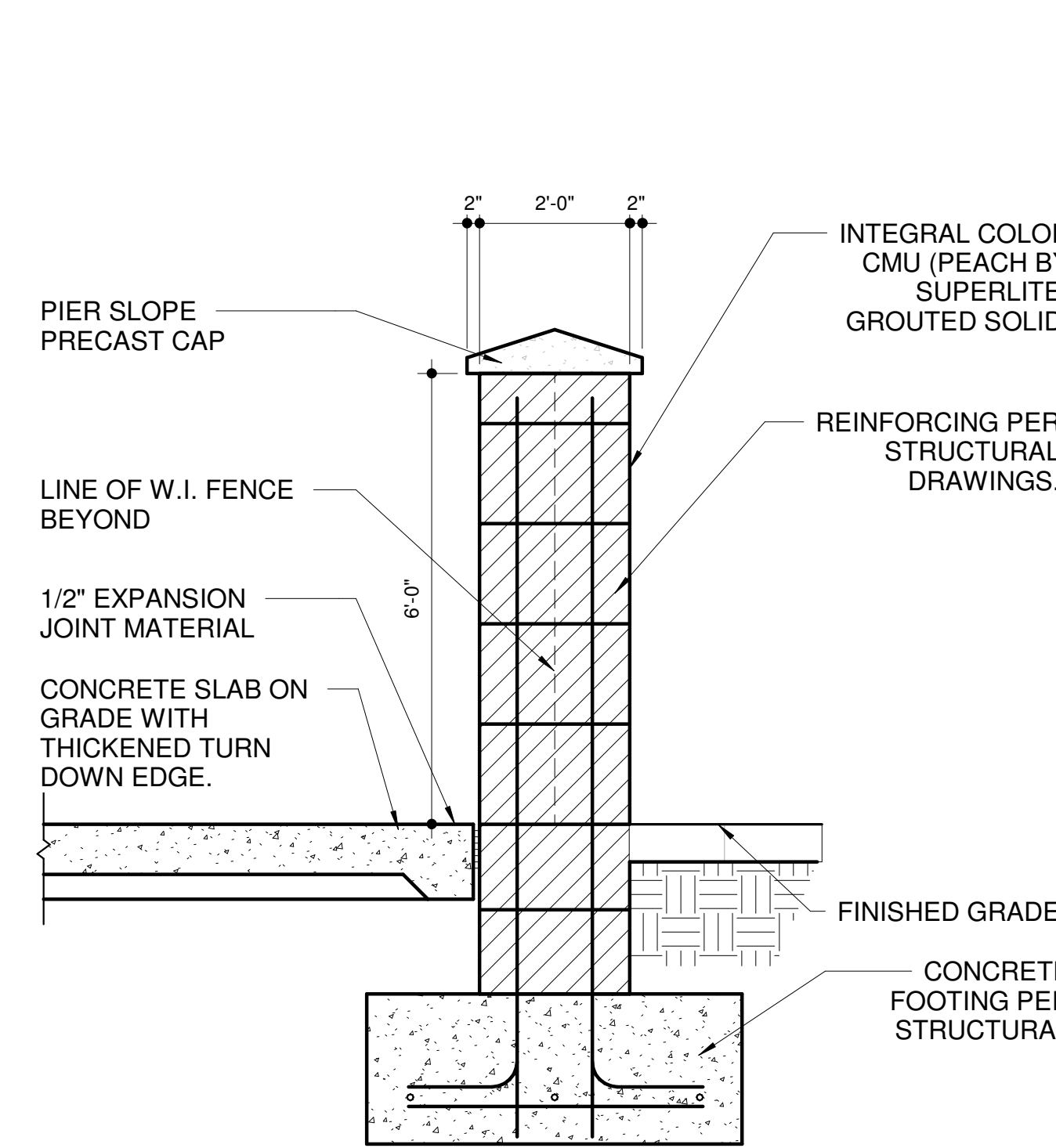
PROJECT NO. P18-8579

DATE APRIL 27, 2018

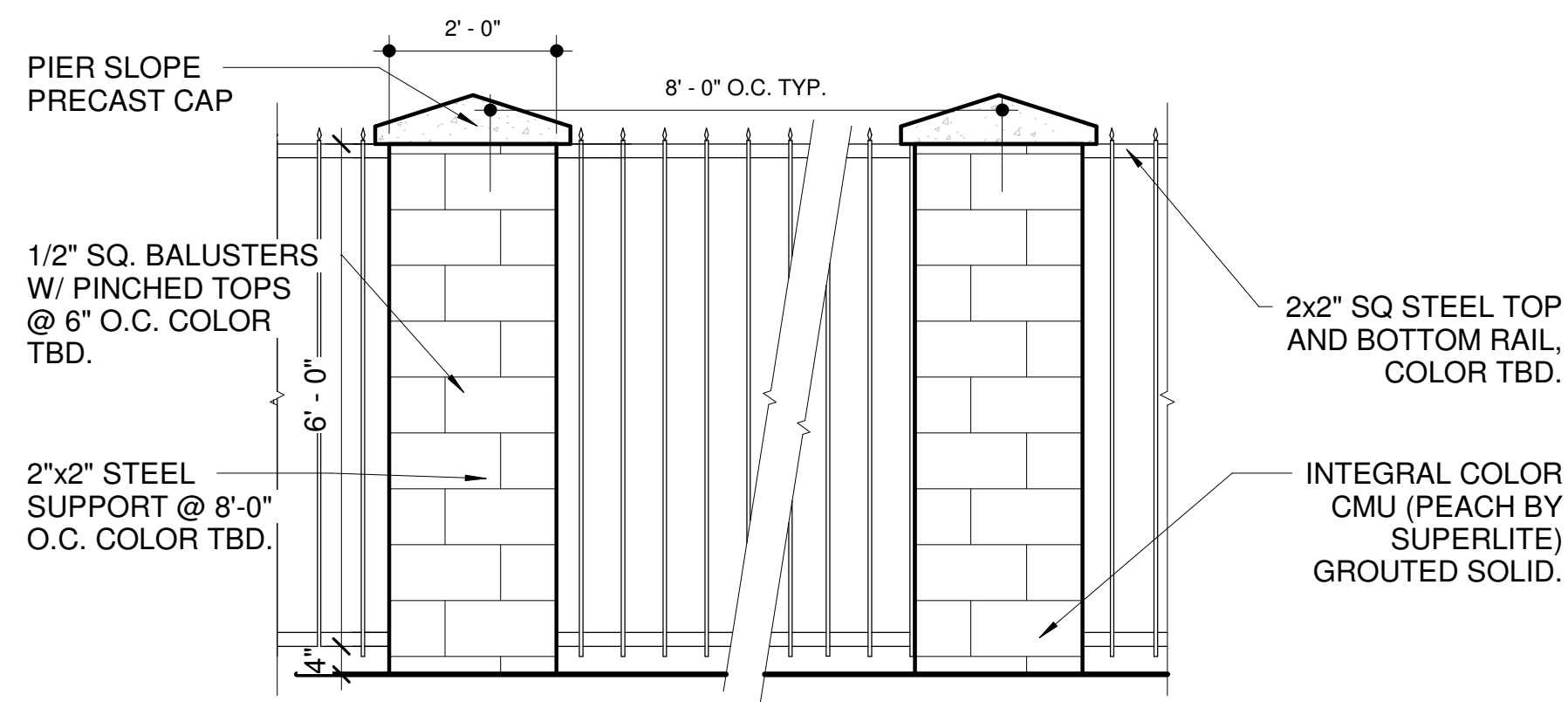
SCALE 1/16" = 1'-0" DRAWN BY PD

DRAWING TITLE PRESENTATION ELEVATIONS

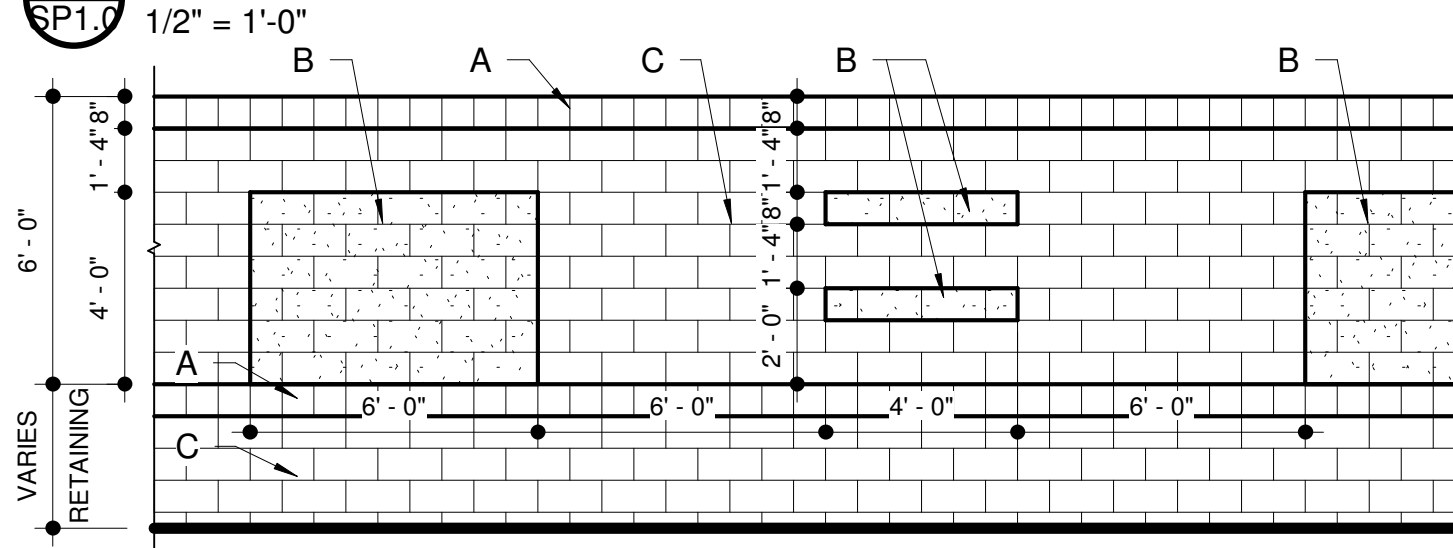
DRAWING NUMBER SK2.0



4 TYP. MASONRY COLUMN DETAIL
SP1.0 1/2" = 1'-0"

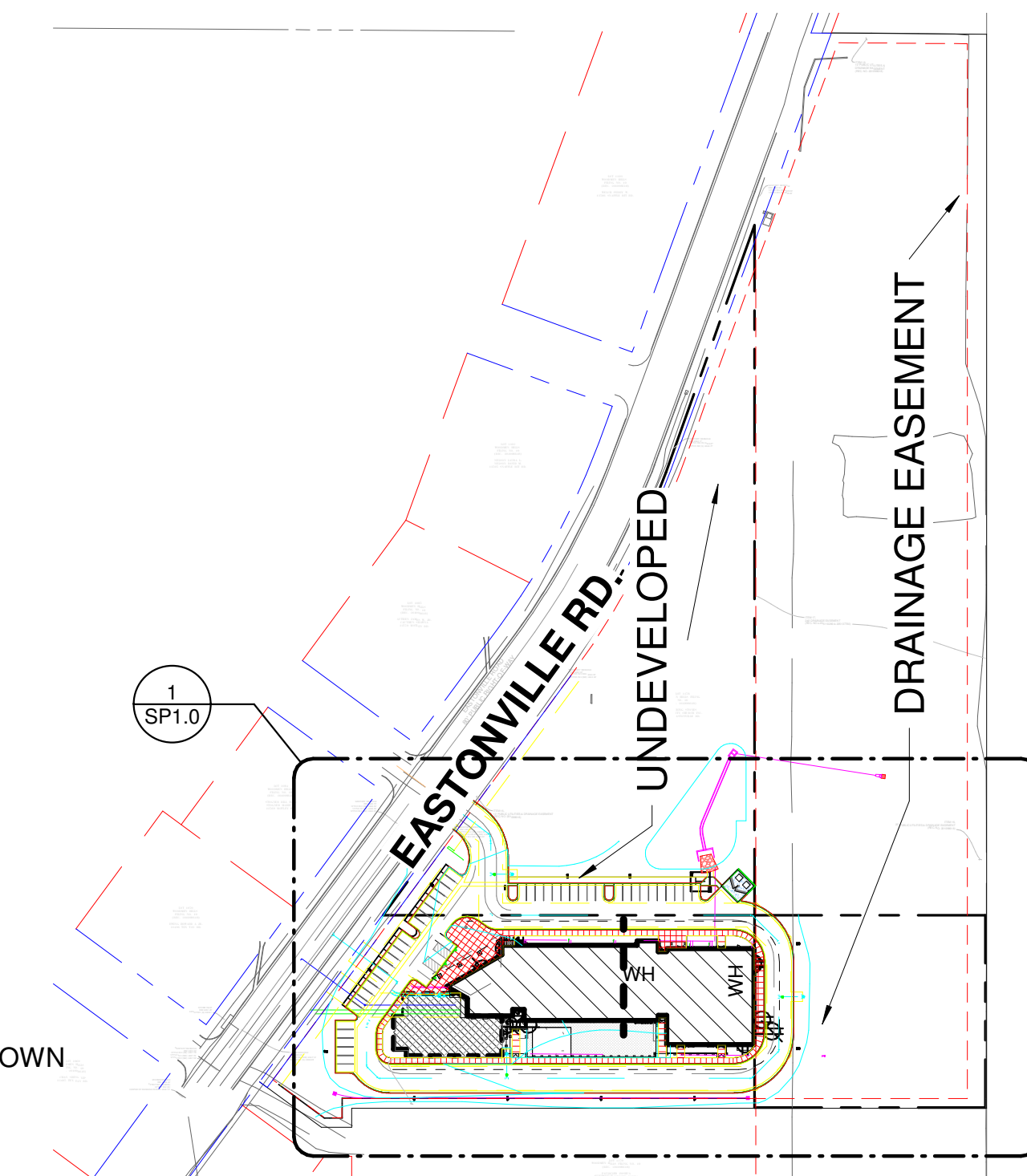


3 PERIMETER SITE WALL TYPICAL ELEVATION
SP1.0 1/4" = 1'-0"

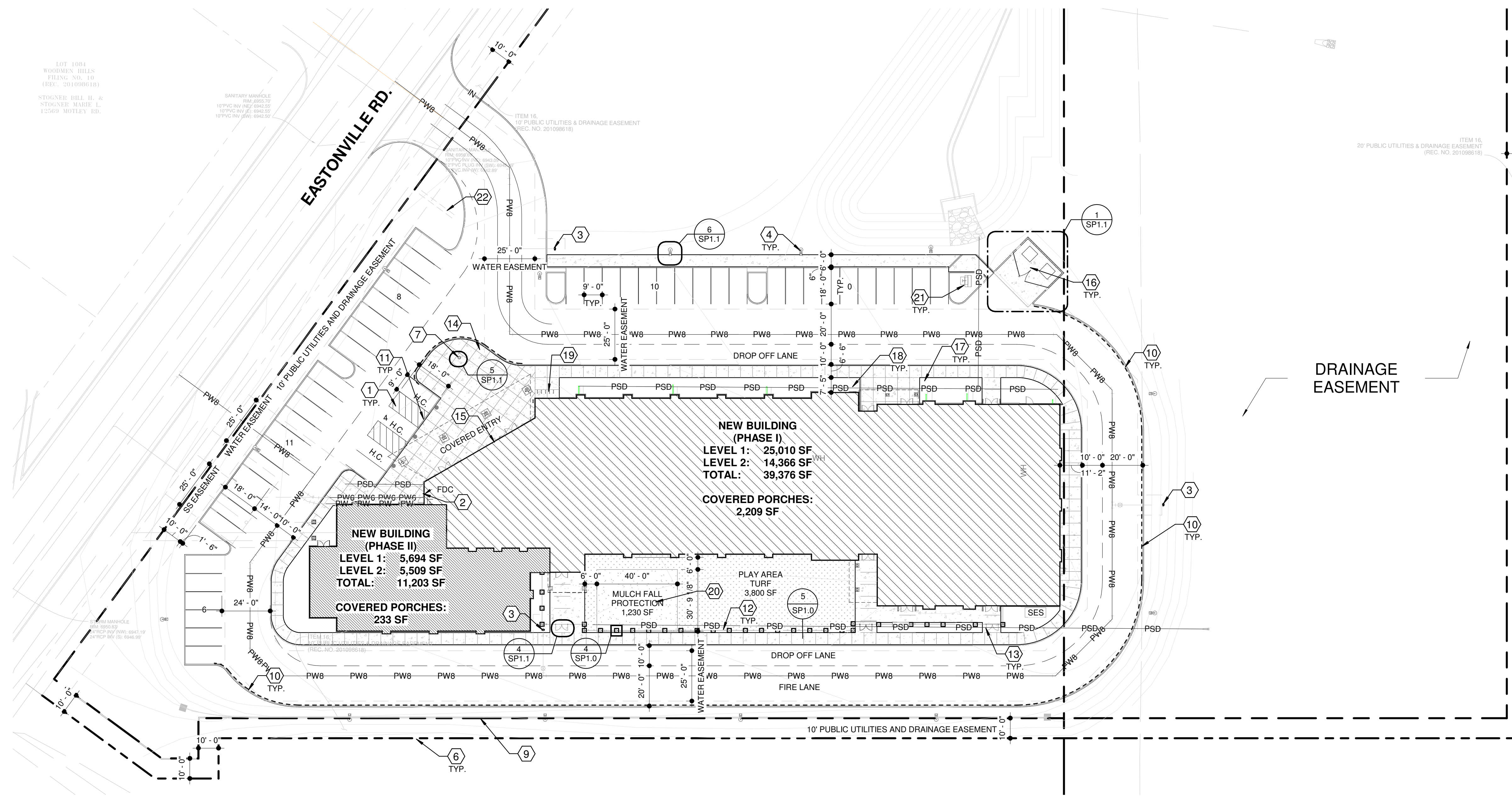


5 WROUGHT IRON FENCE DETAIL
SP1.0 1/2" = 1'-0"

NOTE:
ALL CMU IS 8"X16"X8",
COLORS AND FINISH BY
SUPERLITE.
LEGEND
A. CMU SINGLE SCORE, COLOR: BONE
B. CMU SPLIT FACE, COLOR: COCOA BROWN
C. CMU STANDARD, COLOR: PEACH



2 REFERENCE SITE PLAN
SP1.0 1" = 160'-0"



1 PROPOSED SITE PLAN
SP1.0 1" = 30'-0"

PROJECT DATA

PARCEL #: 4232302001
ZONING: RR-5

MAXIMUM LOT COVERAGE 25%
MAXIMUM HEIGHT 30'
SETBACKS 25' FRONT, REAR, SIDE.
BUILDING INFORMATION
GROSS FLOOR AREA: 39,376 S.F.
NUMBER OF STORIES: 2
MAXIMUM HEIGHT: 30'-0"

PARKING DATA

PARKING REQUIRED PER TABLE 6-2
ELEMENTARY OR JR HIGH:
2 SPACES PER CLASSROOM

REQUIRED PARKING SIZE 9X18 2' OVERHANG

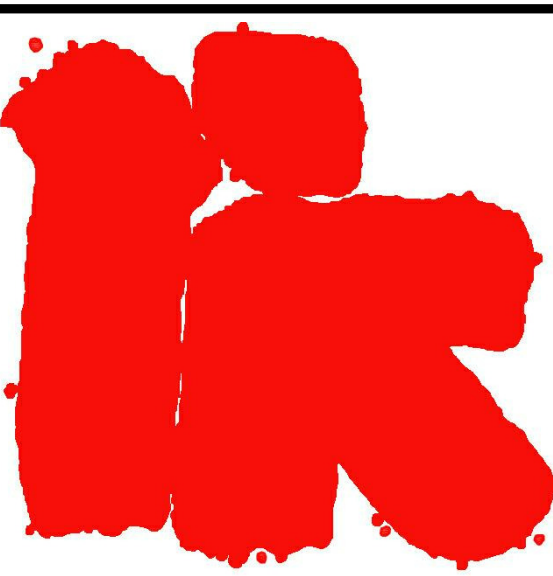
NEW PARKING REQUIRED PER TABLE 6-2:
(2 SPACES/C.R.) 22 C.R. X 2 = 44 STALLS
NEW PARKING PROVIDED: 49 STALLS
REQUIRED ADA PARKING SPACES: 2 STALLS
ADA PARKING SPACES PROVIDED: 2 STALLS

BIKE PARKING

REQUIRED BIKE PARKING 5% OF VEHICLE
PARKING SPACES (49 X .05): 3 SPACES
PROVIDED BIKE PARKING: 5 SPACES

SITE PLAN KEYNOTES:

1. ACCESSIBLE PARKING SPACE PER CIVIL DRAWINGS.
2. FIRE RISER ENTRANCE. PROVIDE FIRE RISER ROOM SIGNAGE.
3. FIRE HYDRANT PER CIVIL DRAWINGS.
4. SITE LIGHTING FIXTURES, SEE ELECTRICAL DRAWINGS.
5. WATER METER PER CIVIL PLANS.
6. PROPERTY LINE.
7. 25' HIGH FLAG POLE.
8. BACKFLOW PREVENTER PER CIVIL PLANS.
9. INTEGRAL COLOR CMU SCREEN WALL OVER RETAINING WALL. SEE TYPICAL SITE WALL DETAIL.
10. CONCRETE CURB PER DETAILS. PAINTED RED CURB WITH "NO PARKING FIRE LANE" IN 4" WHITE LETTERS ON FACE OF THE CURB SPACED 80' ON CENTER FOR FIRE LANE DESIGNATION AS INDICATED WITH DASHED LINE.
11. CONCRETE RAMP PER CIVIL DRAWINGS
12. CMU PILLAR AND WROUGHT IRON FENCE PER DETAIL.
13. W.I. GATE WITH KEY F.O.B. AND PANIC HARDWARE PER DETAIL.
14. SCORED CONCRETE WITH CONTROL JOINTS 6'-0" O.C., PATTERN PER PLAN.
15. PROVIDE FLUSH-MOUNTED KNOX BOX, MODEL NO. 3200 SERIES @ +6'-0" A.F.F. ORDER AND INSTALL PER PHOENIX FIRE DEPARTMENT REQUIREMENTS
16. TRASH ENCLOSURE GATE PER DETAIL. PROVIDE 6.33" STEEL BOLLARDS 60" ABOVE GRADE, SPACED PER DETAIL. FULL GROUT AND CROWN TOP PRIMED AND PAINTED LIGHT TAN.
17. DECOMPOSED GRANITE PER LANDSCAPE PLANS.
18. UNDERGROUND STORM DRAIN PER CIVIL DRAWINGS.
19. CYCLOOPS 2170-5 BICYCLE PARKING
20. PLAY STRUCTURE BY OWNER GC TO COORDINATE INSTALLATION.
21. ELECTRICAL TRANSFORMER.
22. MONUMENT SIGN LOCATION, (UNDER SEPERATE PERMIT AND SUBMITTAL)



ROBERT KABIAK
Architects And Associates, Inc.

2233 East Thomas Road
Phoenix, Arizona 85016
(602) 955-3900 RKA.com

DESIGN APPROVAL	DATE APPROVED:

PRELIMINARY NOT FOR CONSTRUCTION



carhuff+cueva
architects, llc

3149 e prince rd #151
tucson, arizona 85716
phone 520.577.4560
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NEW SCHOOL CAMPUS FOR:
LIBERTY TREE ACADEMY

8579 EASTONVILLE RD,
PEYTON, CO 80831

CONSTRUCTION DOCUMENTS

REVISION	DATE	DESCRIPTION	BY

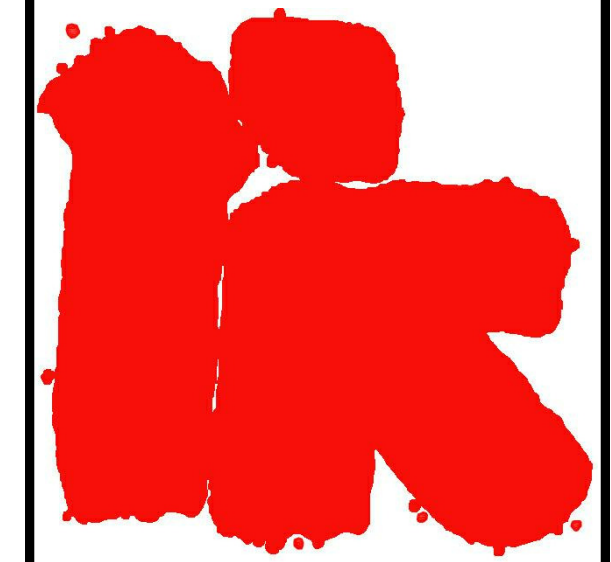
PROJECT NO. **P18-8579**

DATE **APRIL 27, 2018**

SCALE **As indicated** DRAWN BY **PD**

DRAWING TITLE **ARCHITECTURAL SITE PLAN**

DRAWING NUMBER **SP1.0**



DESIGN	DATE
APPROVAL	APPROVED:

PRELIMINARY NOT FOR CONSTRUCTION



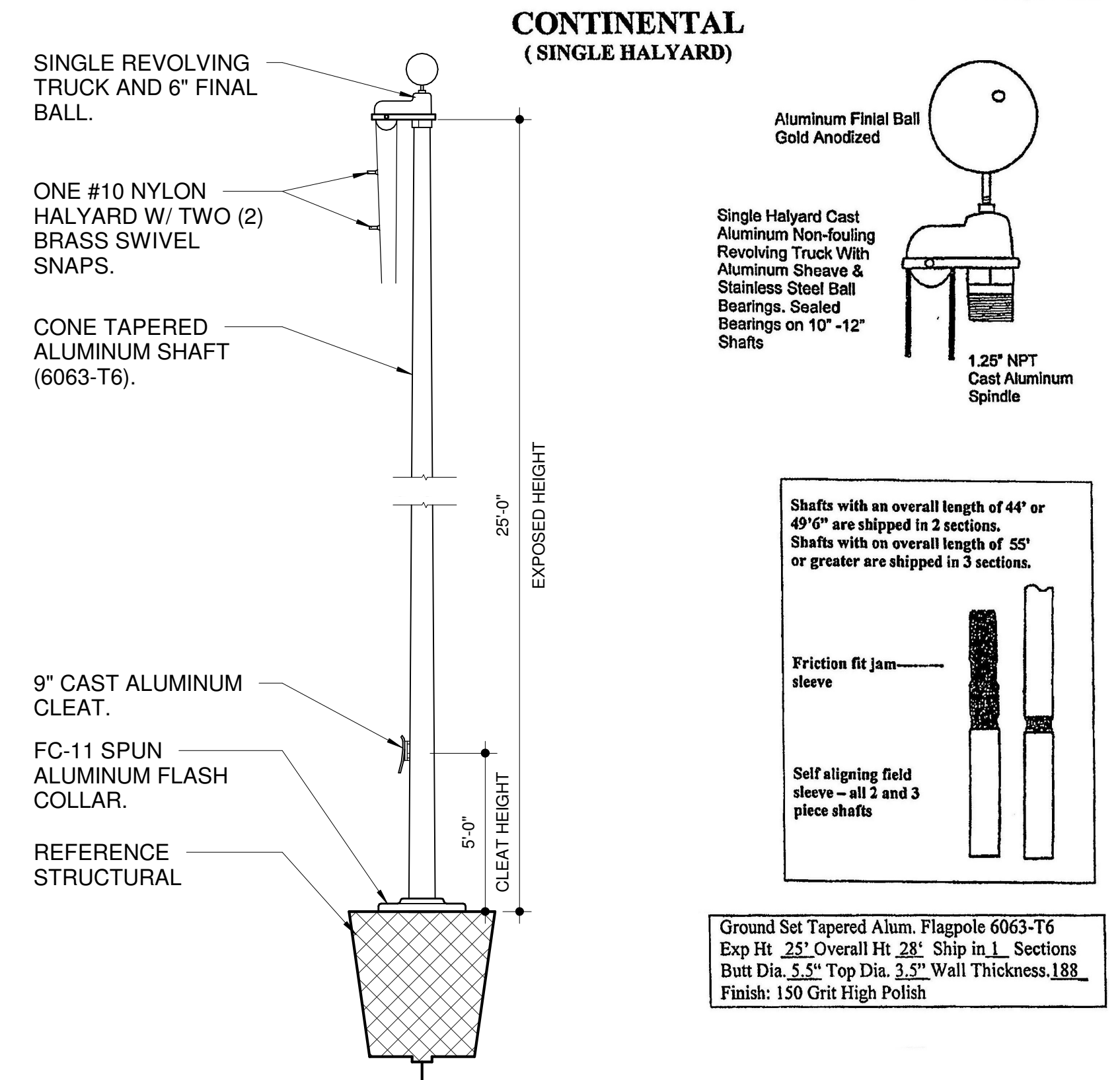
NEW SCHOOL CAMPUS FOR:
LIBERTY TREE ACADEMY
8579 EASTONVILLE RD,
PEYTON, CO 80831

CONSTRUCTION DOCUMENTS

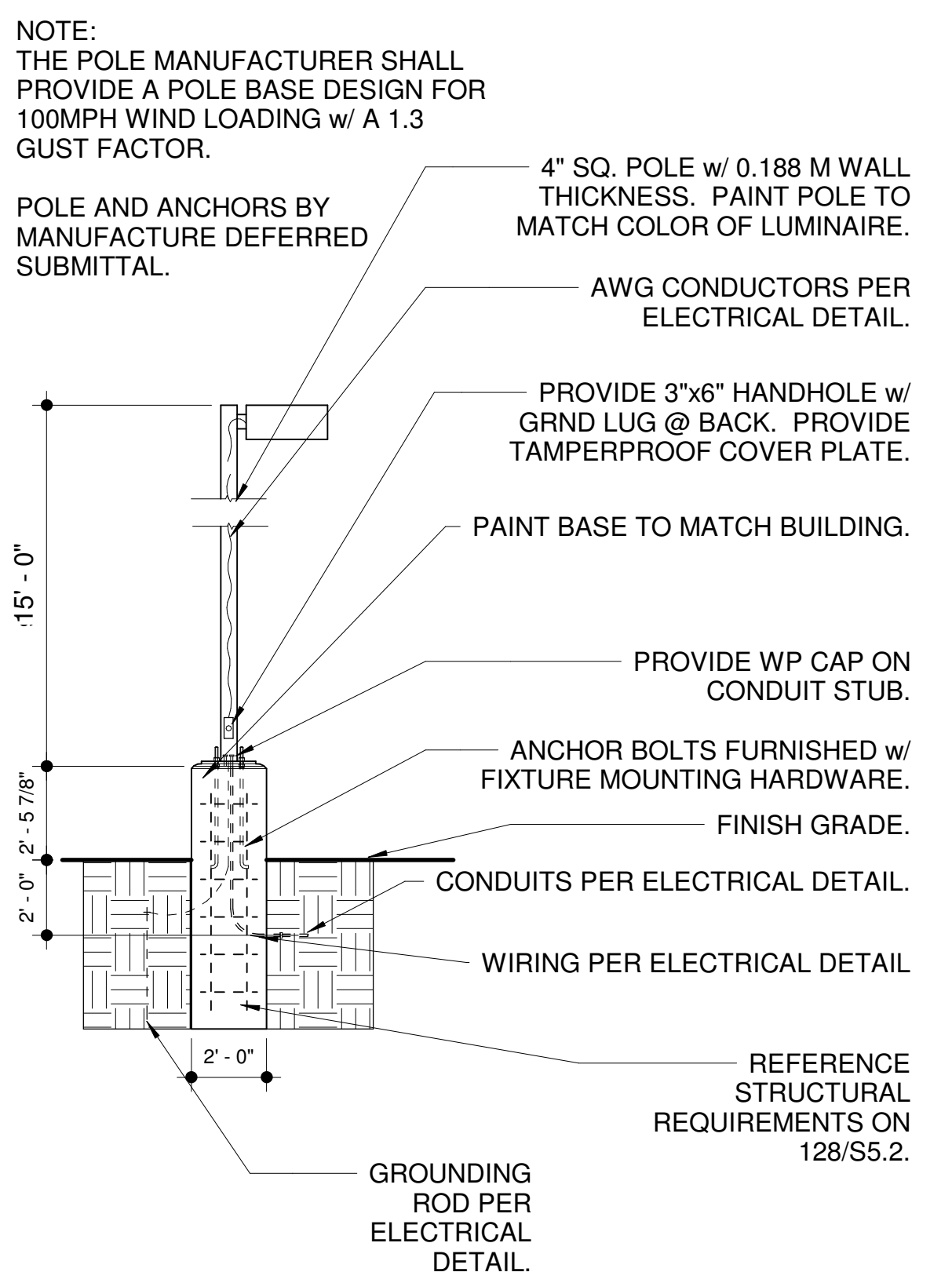
REVISION	DATE	DESCRIPTION	BY

PROJECT NO.	P18-8579
DATE	APRIL 27, 2018
SCALE	As indicated
DRAWING TITLE	SITE DETAILS
DRAWING NUMBER	SP1.1

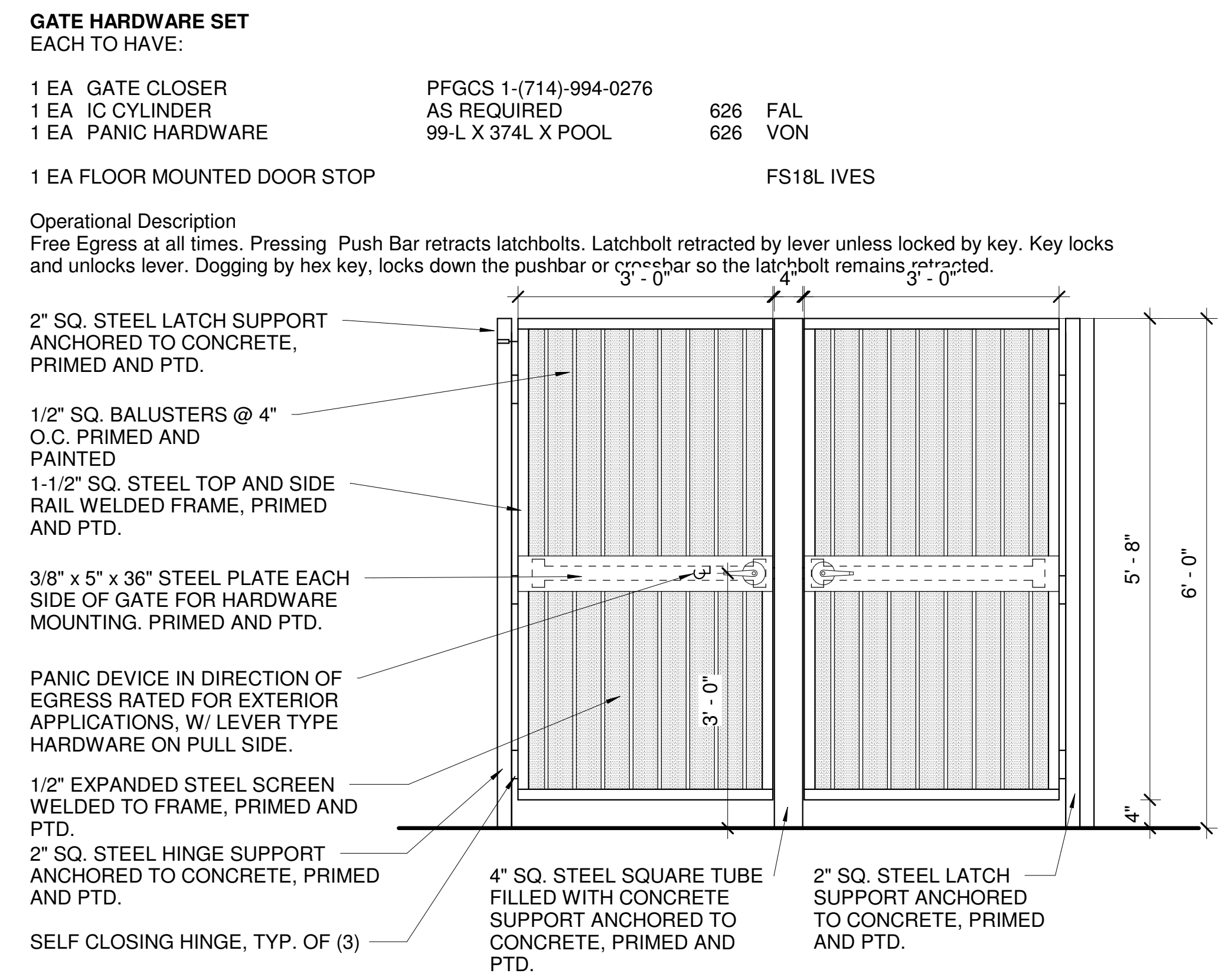
Concord Industries, Inc.
4150-A Kellway Circle, Addison, TX 75001



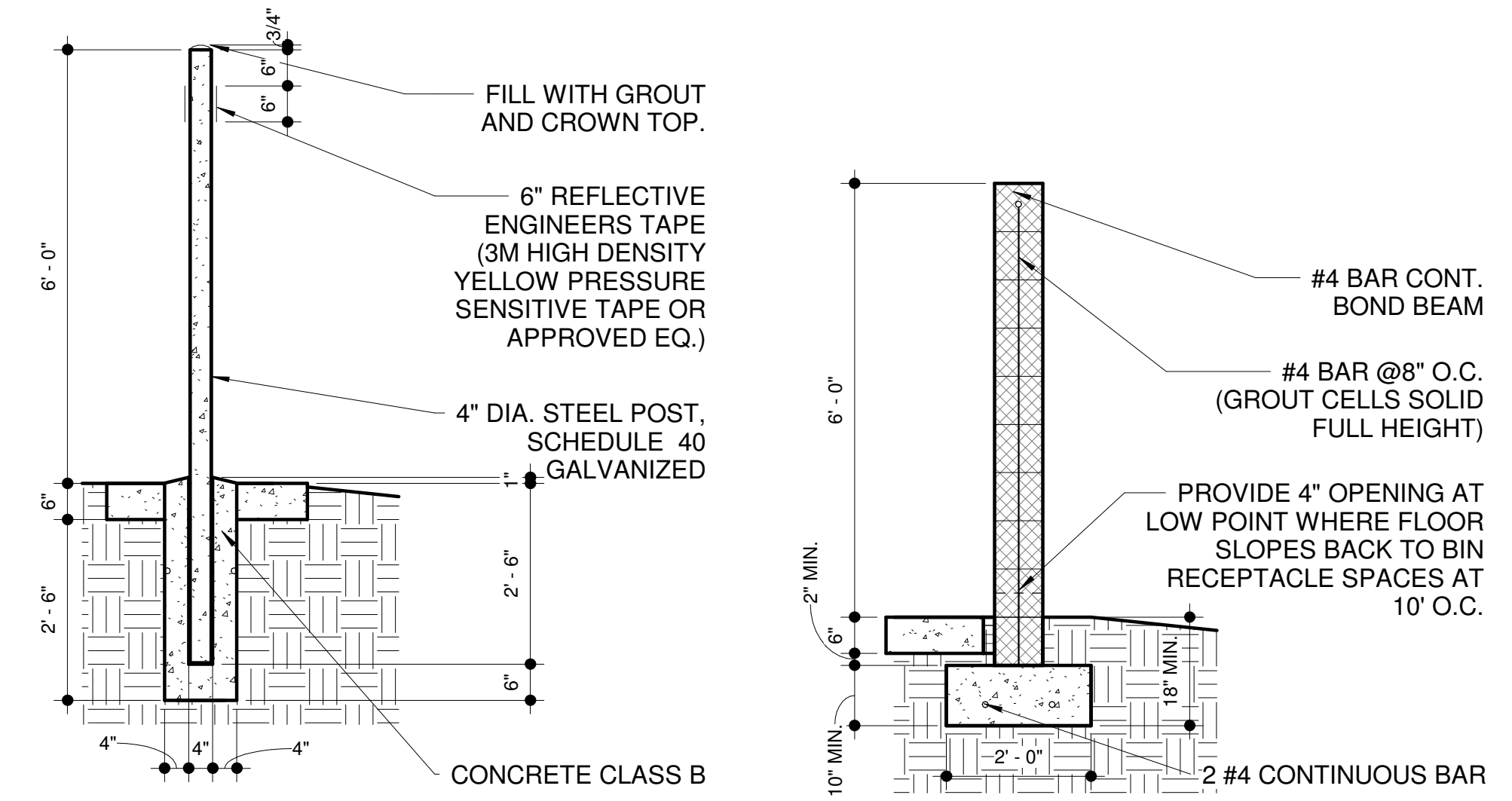
5 FLAG POLE DETAIL
1/4" = 1'-0"



6 LIGHT POLE DETAIL
1/4" = 1'-0"

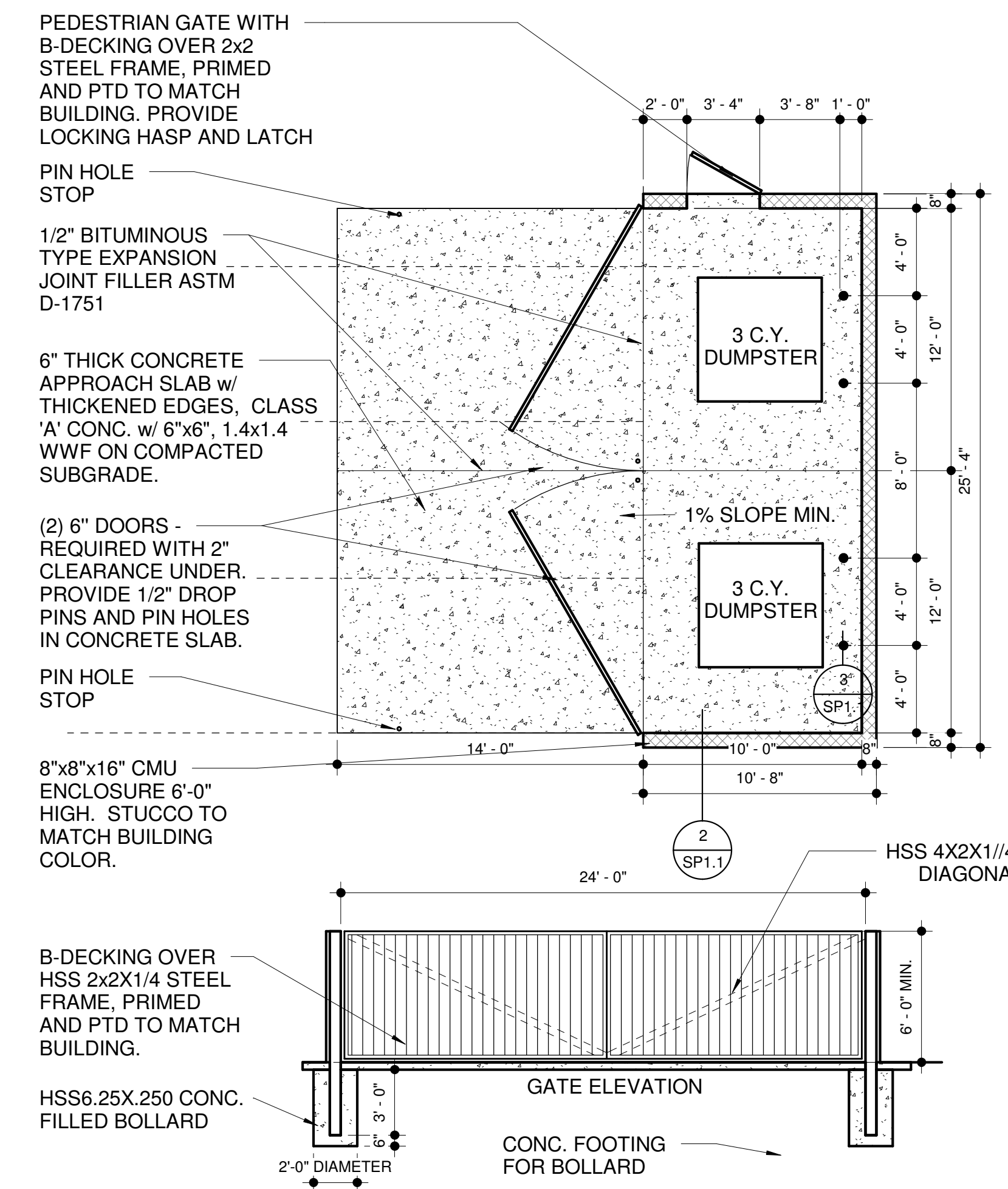


4 DOUBLE GATE DETAIL
3/4" = 1'-0"

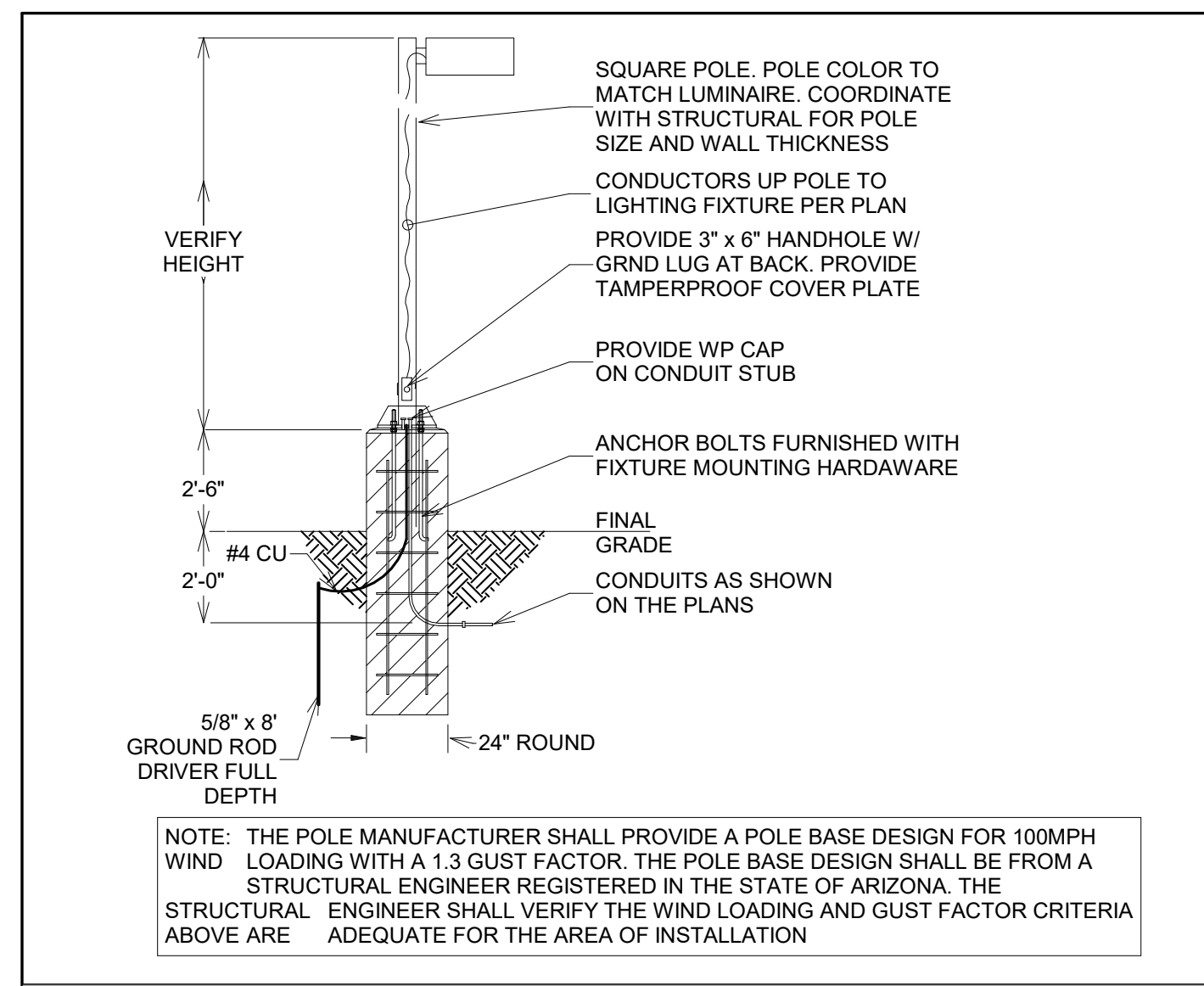


3 BOLLARD DETAIL 1/2" = 1'-0" **2 TRASH ENCLOSURE WALL DETAIL** 1/2" = 1'-0"

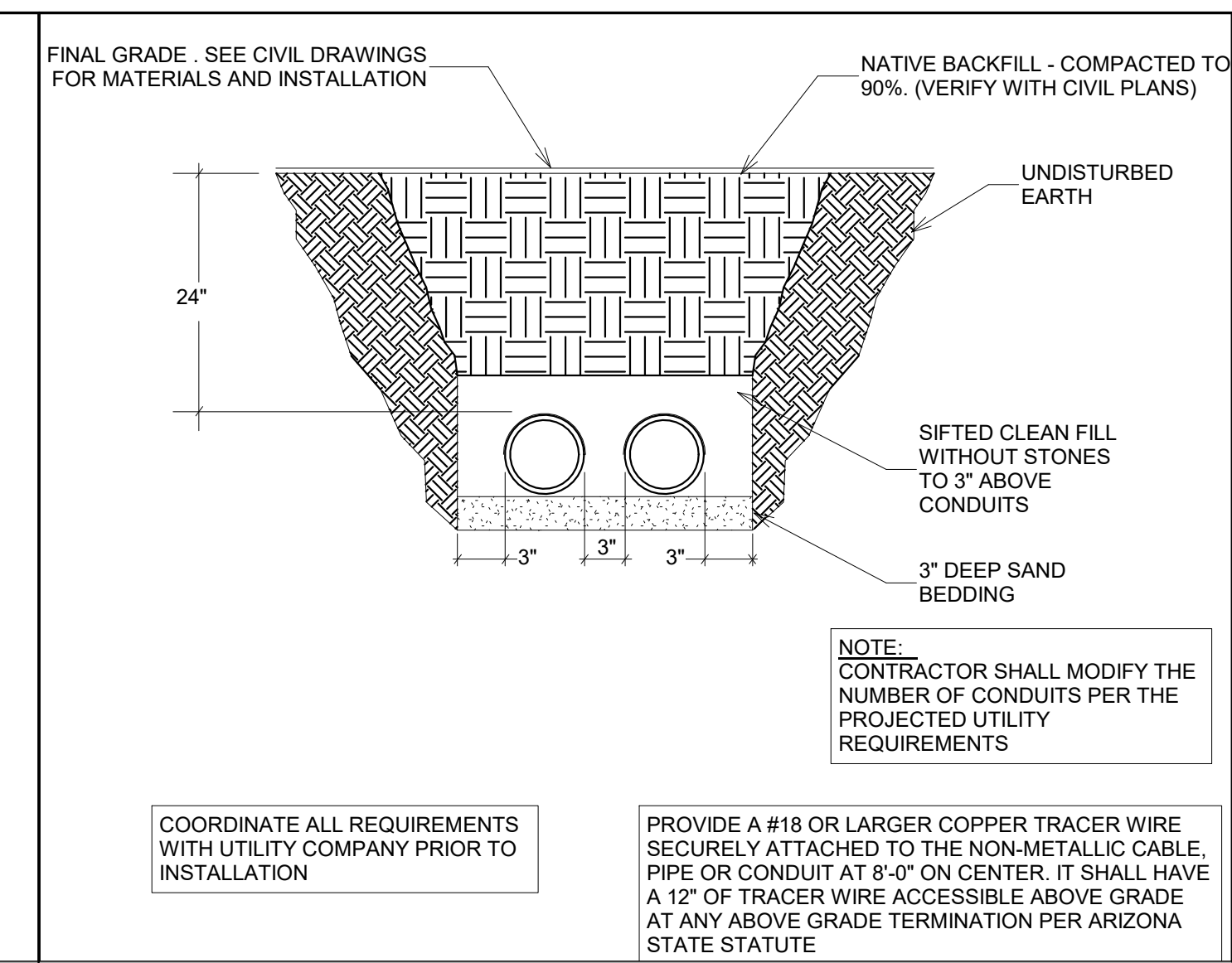
DUMPSTER ENCLOSURE GENERAL NOTES:
1. SOIL BELOW THE WALL FOOTER AND CONCRETE PAD SHALL BE COMPACTED TO A DEPTH OF 6 INCHES AND TO A MINIMUM DRY DENSITY OF 90% IN ACCORDANCE WITH ASTM D-2922 AND D-3017, AFTER ADJUSTMENT FOR ROCK CORRECTION.
2. STEEL REINFORCEMENT SHALL BE GRADE 40.



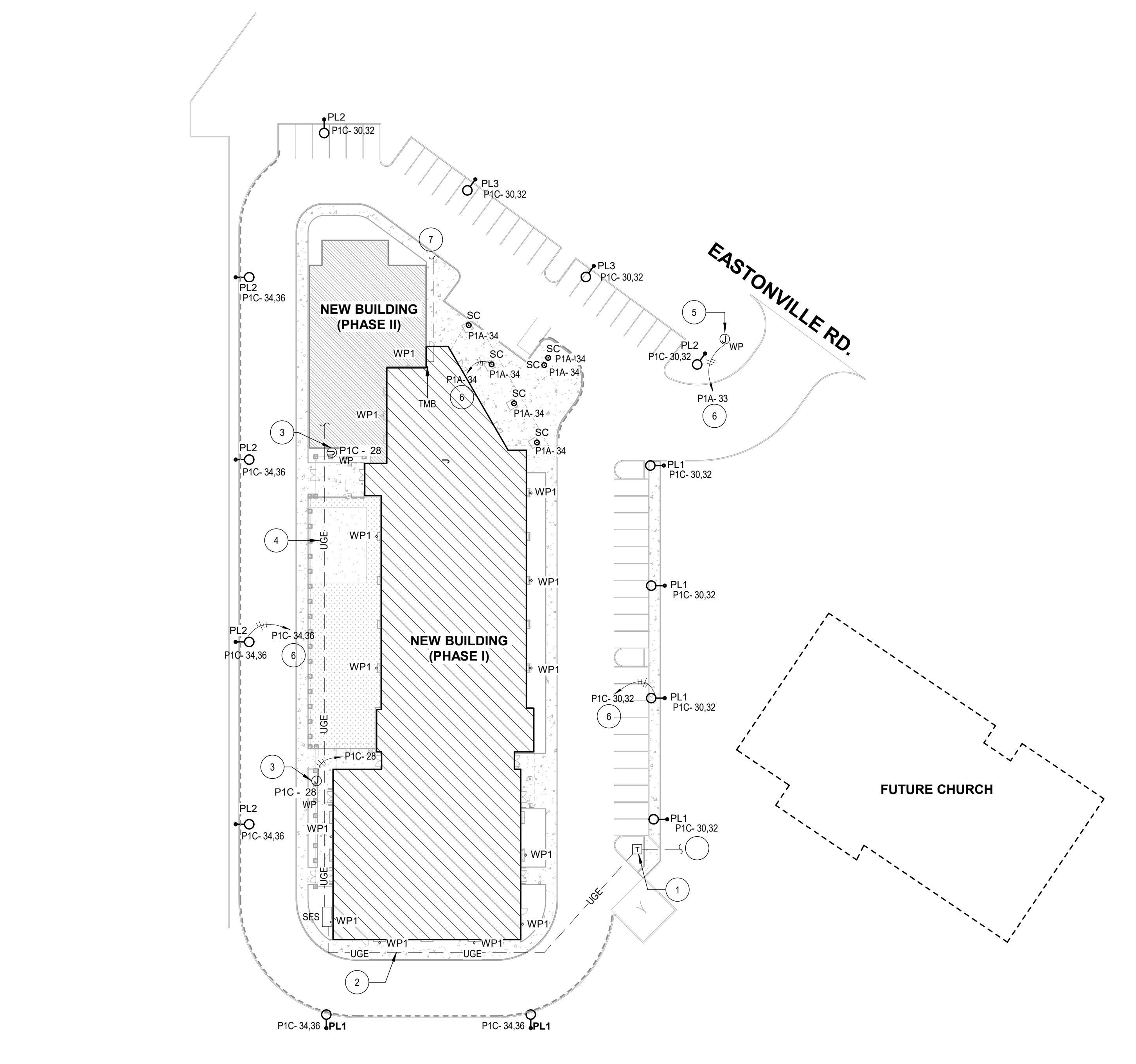
1 DUMPSTER ENCLOSURE
3/16" = 1'-0"



1 POLE MOUNTED DETAIL



2 GENERAL TRENCH SECTION



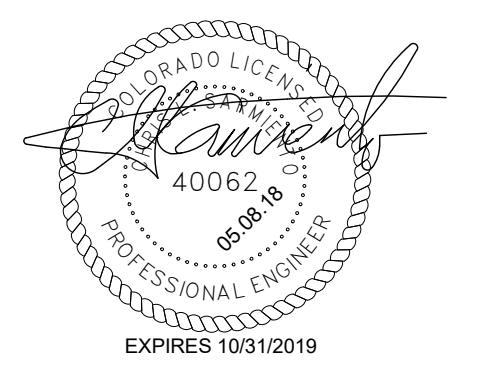
6 ELECTRICAL SITE PLAN
SCALE: 1" = 40'-0"

GENERAL NOTES

- A THIS ELECTRICAL UTILITIES SITE PLAN IS FOR REFERENCE ONLY. NO CONSTRUCTION IS TO BEGIN UNTIL FINAL UTILITY COMPANY PLANS ARE RECEIVED. UTILITY COMPANY DESIGN IS NOT AVAILABLE AT THIS TIME. ADDITIONAL WORK WILL BE REQUIRED.
- B ALL WORK SHALL BE PER UTILITY COMPANY CONSTRUCTION STANDARDS AND SPECIFICATIONS. PROVIDE CONDUIT SPACERS THROUGHOUT AND CONCRETE ENCASEMENT WHERE FEEDERS PASS UNDER DRIVEWAYS AND OR PARKING LOTS.
- C ALL TRANSFORMER BOXES, METER PANELS, ELECTRICAL EQUIPMENT AND MISCELLANEOUS UTILITY EQUIPMENT SHALL BE PAINTED TO MATCH ADJACENT BUILDING COLORS WHERE SCREENING IS NOT APPLICABLE. COORDINATE WITH UTILITY PRIOR TO PAINTING.
- D SEE SHEET E0.1 GENERAL NOTES FOR ADDITIONAL UTILITY COORDINATION NOTES.
- E ALL EXTERNAL LIGHTING SHALL BE LOCATED AND DESIGNED TO PREVENT RAYS FROM BEING DIRECTED OFF OF THE PROPERTY UPON WHICH THE LIGHTING IS LOCATED.
- F THE CONTRACTOR SHALL PROGRAM THE LIGHTING CONTROLLER AS PER THE LIGHTING DIAGRAM PRIOR TO CALLING THE CITY FOR THE INSPECTION.
- G THE CONTRACTOR IS TO SCHEDULE A NIGHT TIME INSPECTION OF THE ENERGIZED LIGHTING, TO ATTEND THIS INSPECTION AND TO CORRECT ALL ITEMS IDENTIFIED DURING INSPECTION PRIOR TO ISSUING THE FINAL CERTIFICATE OF OCCUPANCY.

KEYED NOTES

- 1 PROPOSED LOCATION OF UTILITY TRANSFORMER. ELECTRICAL CONTRACTOR SHALL PROVIDE CONCRETE PAD PER UTILITY COMPANY REQUIREMENTS. COORDINATE WITH UTILITY COMPANY FOR EXACT REQUIREMENTS AND LOCATION. MAINTAIN MINIMUM CLEARANCE IN FRONT, SIDES AND BACK OF UTILITY TRANSFORMER PER UTILITY REQUIREMENTS.
- 2 PROVIDE SECONDARY CONDUIT WITH MULETAPE FROM NEW UTILITY COMPANY TRANSFORMER TO S.E.S. UTILITY PULL SECTION. COORDINATE WITH UTILITY COMPANY FOR EXACT QUANTITY, ROUTING AND REQUIREMENTS. TRENCHING AND BACKFILL BY ELECTRICAL CONTRACTOR AS REQUIRED BY THE UTILITY. VERIFY EXACT ROUTING, DISTANCE AND P.O.C. WITH UTILITY PRIOR TO DIGGING.
- 3 PROVIDE WEATHER PROOF J-BOX AT GATE FOR CARD READER. VERIFY MOUNTING AND LOCATION WITH OWNER PRIOR TO INSTALLATION.
- 4 PROVIDE (2) 4" UG CONDUITS STUB-UPS WITH PULL STRING FOR FUTURE PHASE 2 ADDITION, FROM SES TO FUTURE BUILDING ELECTRICAL ROOM LOCATION. VERIFY EXACT ROUTING, DISTANCE, AND STUB-UP WITH OWNER PRIOR TO DIGGING.
- 5 PROVIDE WP J-BOX FOR MONUMENT SIGN LIGHTING. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
- 6 PROVIDE (2) 4" CONDUIT WITH PULL WIRE TO TEL/COCATV POINT OF CONNECTION. COORDINATE WITH UTILITY COMPANY FOR EXACT ROUTING AND REQUIREMENTS. PROVIDE PULL BOXES AS REQUIRED.
- 7 PROVIDE (2) 4" CONDUIT WITH PULL WIRE TO TEL/COCATV POINT OF CONNECTION. COORDINATE WITH UTILITY COMPANY FOR EXACT ROUTING AND REQUIREMENTS. PROVIDE PULL BOXES AS REQUIRED.



carhuff+cueva
architects, llc

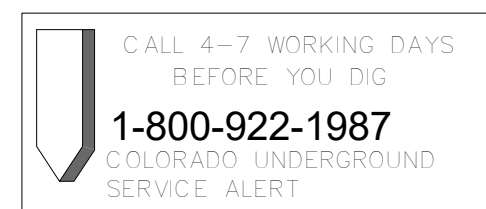
3149 e prince rd #151
tucson, arizona 85716
phone 520.577.4560
www.cca-az.com

NEW SCHOOL CAMPUS FOR:
LIBERTY TREE ACADEMY
8579 EASTONVILLE RD,
PEYTON, CO 80831

CONSTRUCTION DOCUMENTS

REVISION	DATE	DESCRIPTION	BY

PROJECT NO.	18001
DATE	MAY 8, 2018
SCALE	As indicated
DRAWN BY	Author
DRAWING TITLE	ELECTRICAL SITE PLAN
DRAWING NUMBER	E1.1



Power Company: MOUNTAIN VIEW ELECTRIC
Telephone #: 1-719-495-2283

Telephone Company: Century Link
Telephone #: 1-719-453-1443

Submit drawings to Utility Company representative as required in the General Notes included in the Electrical Drawings.



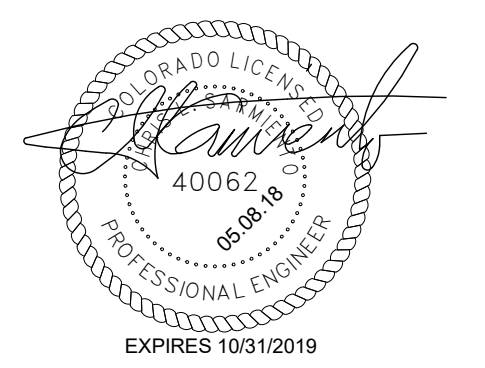
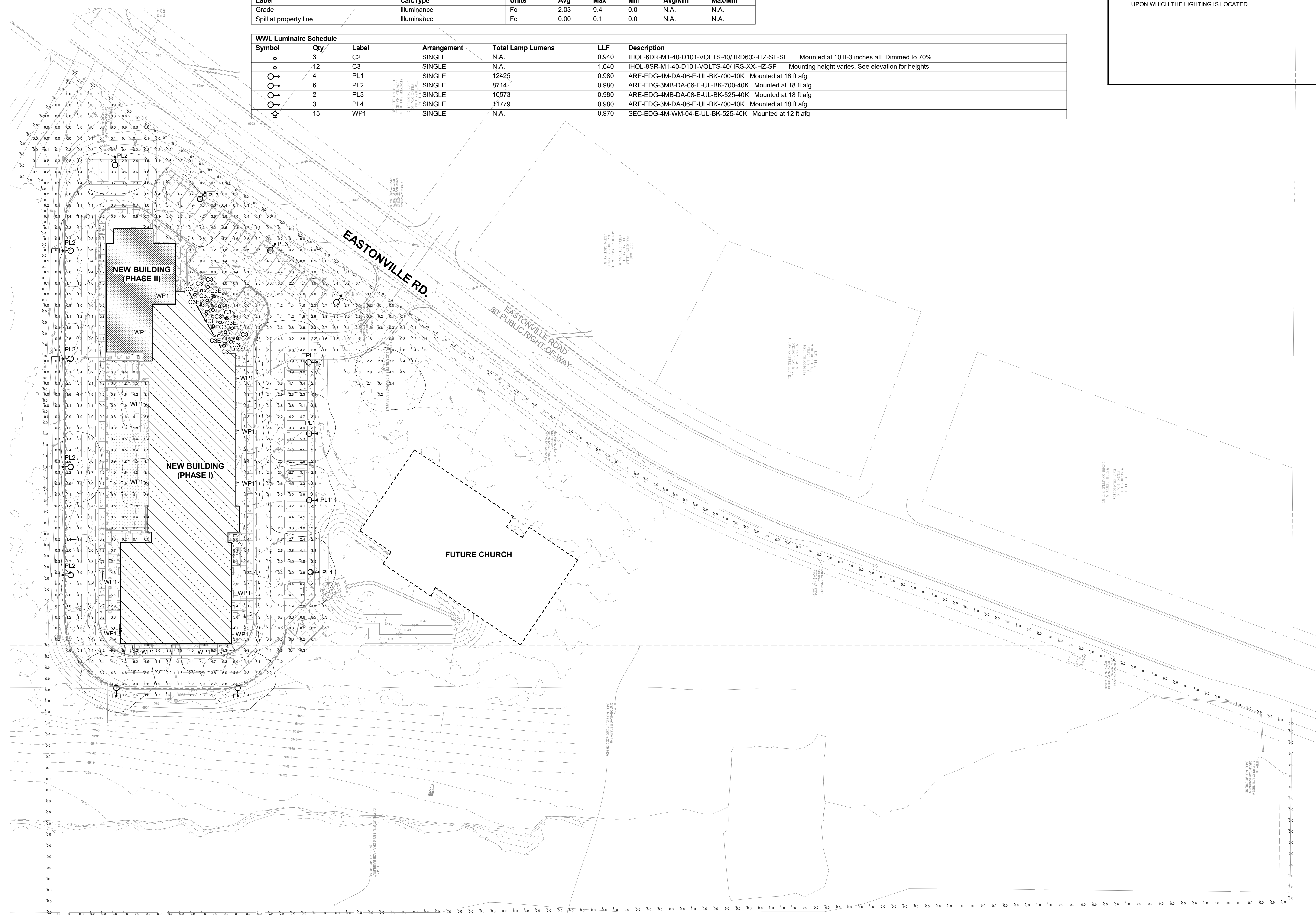
GENERAL NOTES

1 ALL EXTERNAL LIGHTING SHALL BE LOCATED AND DESIGNED TO PREVENT RAYS FROM BEING DIRECTED OFF OF THE PROPERTY UPON WHICH THE LIGHTING IS LOCATED.

**LIBERTY TREE
ACADEMY**

WWL Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Grade	Illuminance	Fc	2.03	9.4	0.0	N.A.	N.A.
Spill at property line	Illuminance	Fc	0.00	0.1	0.0	N.A.	N.A.

WWL Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description	
○	3	C2	SINGLE	N.A.	0.940	IHOL-6DR-M1-40-D101-VOLTS-40/ IRD602-HZ-SF-SL Mounted at 10 ft-3 inches aff. Dimmed to 70%	
○	12	C3	SINGLE	N.A.	1.040	IHOL-8SR-M1-40-D101-VOLTS-40/ IRS-XX-HZ-SF Mounting height varies. See elevation for heights	
○→	4	PL1	SINGLE	12425	0.980	ARE-EDG-4M-DA-06-E-UL-BK-700-40K Mounted at 18 ft afg	
○→	6	PL2	SINGLE	8714	0.980	ARE-EDG-3MB-DA-06-E-UL-BK-700-40K Mounted at 18 ft afg	
○→	2	PL3	SINGLE	10573	0.980	ARE-EDG-4MB-DA-08-E-UL-BK-525-40K Mounted at 18 ft afg	
○→	3	PL4	SINGLE	11779	0.980	ARE-EDG-3M-DA-06-E-UL-BK-700-40K Mounted at 18 ft afg	
⊕	13	WP1	SINGLE	N.A.	0.970	SEC-EDG-4M-WM-04-E-UL-BK-525-40K Mounted at 12 ft afg	



**carhuff+cueva
architects, llc**

3149 e prince rd #151
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phone 520.577.4560
www.cca-az.com

**NEW SCHOOL CAMPUS FOR:
LIBERTY TREE ACADEMY**

8579 EASTONVILLE RD,
PEYTON, CO 80831

CONSTRUCTION DOCUMENTS

REVISION	DATE	DESCRIPTION	BY

PROJECT NO. **18001**

DATE **MAY 8, 2018**

SCALE **1" = 40'-0"** DRAWN BY **Author**

DRAWING TITLE
ELECTRICAL SITE PHOTOMETRIC CALCULATIONS

DRAWING NUMBER
E1.2

Cree Edge™ Series LED Area/Flood Luminaire

The Cree Edge™ Series has a slim, low profile design. Its rugged cast aluminum housing minimizes wind load requirements and features an integral, weatheright LED driver compartment and high performance aluminum heat sink. Various mounting choices. Adjustable Arm, Direct Arm, Direct Arm Long, or Side Arm (details on page 2). Includes a leaf/delris guard.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, and interior walkways.

Performance Summary

Patented NanoOptic® Product Technology
Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

CCT: 4000K (+/- 300K), 5700K (+/- 500K) standard

Limited Warranty: 10 years on luminaires/70 years on Colorfast DetaGuard® finish

See <http://lighting.cree.com/warranty> for warranty terms.

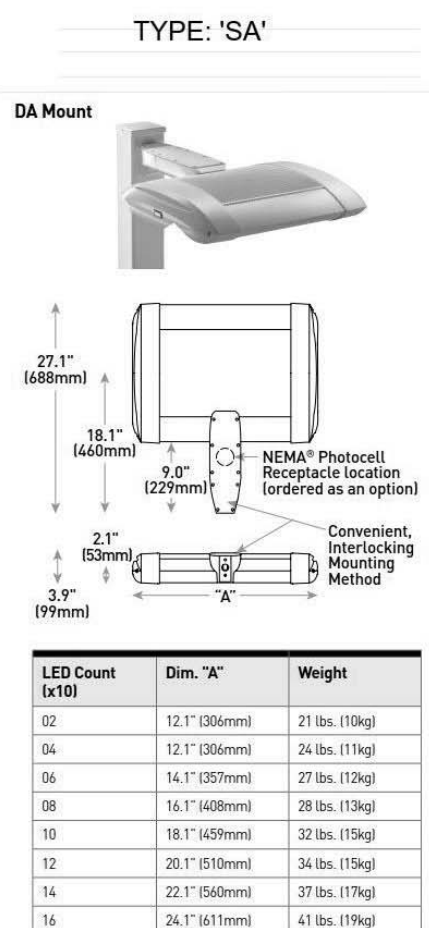
Accessories

Field-Installed

Kit Options: AA-8055PM, AA-8055SM, AA-8055SM

Head-End Remov: AA-8055SM

For expanded implementation of the programmable multi-level option, a minimum of one hand-held remote is required.



AA/DLSA Mount - see page 22 for weight & dimensions

LED Count (x10)	Dim. "A"	Weight
02	12.1" (306mm)	21 lbs. (10kg)
04	12.1" (306mm)	24 lbs. (11kg)
06	14.1" (357mm)	27 lbs. (12kg)
08	14.1" (357mm)	29 lbs. (13kg)
10	16.1" (408mm)	32 lbs. (15kg)
12	20.1" (511mm)	34 lbs. (15kg)
14	22.1" (562mm)	37 lbs. (17kg)
16	24.1" (613mm)	41 lbs. (19kg)

Product	Optic	Mounting	LED Count (x10)	E	Voltage	Color Options	Drive Current	Options
AEC	2M	2M	02	E	UL	AA	350	Dim 0-10V Dimming
	4M	4M	04	E	UL	AA	350	Dim 0-10V Dimming
	6M	6M	06	E	UL	AA	350	Dim 0-10V Dimming
	8M	8M	08	E	UL	AA	350	Dim 0-10V Dimming
	10M	10M	10	E	UL	AA	350	Dim 0-10V Dimming
	12M	12M	12	E	UL	AA	350	Dim 0-10V Dimming
	14M	14M	14	E	UL	AA	350	Dim 0-10V Dimming
	16M	16M	16	E	UL	AA	350	Dim 0-10V Dimming
	2M	2M	02	E	UL	AA	350	Dim 0-10V Dimming
	4M	4M	04	E	UL	AA	350	Dim 0-10V Dimming
	6M	6M	06	E	UL	AA	350	Dim 0-10V Dimming
	8M	8M	08	E	UL	AA	350	Dim 0-10V Dimming
10M	10M	10	E	UL	AA	350	Dim 0-10V Dimming	
12M	12M	12	E	UL	AA	350	Dim 0-10V Dimming	
14M	14M	14	E	UL	AA	350	Dim 0-10V Dimming	
16M	16M	16	E	UL	AA	350	Dim 0-10V Dimming	
2M	2M	02	E	UL	AA	350	Dim 0-10V Dimming	
4M	4M	04	E	UL	AA	350	Dim 0-10V Dimming	
6M	6M	06	E	UL	AA	350	Dim 0-10V Dimming	
8M	8M	08	E	UL	AA	350	Dim 0-10V Dimming	
10M	10M	10	E	UL	AA	350	Dim 0-10V Dimming	
12M	12M	12	E	UL	AA	350	Dim 0-10V Dimming	
14M	14M	14	E	UL	AA	350	Dim 0-10V Dimming	
16M	16M	16	E	UL	AA	350	Dim 0-10V Dimming	
2M	2M	02	E	UL	AA	350	Dim 0-10V Dimming	
4M	4M	04	E	UL	AA	350	Dim 0-10V Dimming	
6M	6M	06	E	UL	AA	350	Dim 0-10V Dimming	
8M	8M	08	E	UL	AA	350	Dim 0-10V Dimming	
10M	10M	10	E	UL	AA	350	Dim 0-10V Dimming	
12M	12M	12	E	UL	AA	350	Dim 0-10V Dimming	
14M	14M	14	E	UL	AA	350	Dim 0-10V Dimming	
16M	16M	16	E	UL	AA	350	Dim 0-10V Dimming	

Rev. Date: V4.010202016
 Cree Lighting Inc. 18000 236-6800 F 1(262) 504-5415
 Canada: www.cree.com/canada T 1(800) 473-1234 F 1(800) 890-7507

Cree Edge™ LED Area/Flood Luminaire

Product Specifications

- Slim, low profile, minimizing wind load requirements
- Luminaire sides are rugged die cast aluminum with integral, weatheright LED driver compartment and high performance heat sink
- DA and DL mount utilizes convenient interlocking mounting method. Mounting is rugged die cast aluminum, mounts to 3-4" (76-102mm) square or round pole and secures to pole with 5/16"-18 UNC bolts spaced 2" (51mm) centers
- AA and SA mounts are rugged die cast aluminum and mount to 2" diameter IP-2375 (60mm) LED sensors
- Includes leaf/delris guard
- Exclusive Colorfast DetaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver, and white are available
- **Weight:** See Dimensions and Weight Charts on pages 1 and 22

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- DA and DL mounts designed with integral weatheright electrical box with terminal strips (120V-208V) for easy power hookup
- Integral 10kV surge suppression protection standard
- When order delris housing, a slow blow fuse or type C/D breaker should be used to address inrush current
- **Maximum 10V Source Current:** 0L LED (50mA), 10mA, 20 LED (50mA & 70mA) and 40-80 LED, 0.15mA, 100-140 LED, 0.30mA

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without P or R options
- Consult factory for CE Certified products
- Compliant to ANSI C136.31-2001: 50 degree and overpass vibration standards when ordered with AA, DA, and DL mounts
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.4.2
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- DLC qualified. Exceptions apply when ordered with full backlight control, or 3MP optic. Please refer to www.designlights.org/DLC for most current information
- Meets Buy American requirements within ASRA

Electrical Data*		Total Current (A)						
LED Count (x10)	System Voltage (120-480V)	120V	208V	240V	277V	347V	480V	
350mA								
02	25	0.23	0.13	0.11	0.10	0.08	0.07	
04	44	0.36	0.23	0.21	0.20	0.15	0.13	
06	66	0.52	0.33	0.29	0.28	0.20	0.17	
08	88	0.70	0.44	0.38	0.36	0.26	0.22	
10	110	0.87	0.55	0.47	0.45	0.32	0.27	
12	130	1.03	0.63	0.55	0.48	0.34	0.29	
14	156	1.22	0.77	0.68	0.62	0.47	0.39	
16	177	1.47	0.97	0.77	0.68	0.53	0.39	

Electrical Data*		Total Current (A)						
LED Count (x10)	System Voltage (120-480V)	120V	208V	240V	277V	347V	480V	
525mA								
02	37	0.30	0.19	0.17	0.16	0.12	0.10	
04	70	0.58	0.34	0.31	0.29	0.21	0.16	
06	105	0.84	0.49	0.43	0.38	0.30	0.22	
08	140	1.13	0.64	0.58	0.51	0.39	0.28	
10	171	1.43	0.83	0.74	0.66	0.50	0.36	
12	202	1.69	0.98	0.86	0.77	0.59	0.44	
14	232	1.94	1.12	0.99	0.87	0.68	0.50	
16	263	2.21	1.27	1.11	0.97	0.77	0.56	

Electrical Data*		Total Current (A)						
LED Count (x10)	System Voltage (120-480V)	120V	208V	240V	277V	347V	480V	
700mA								
02	50	0.41	0.25	0.22	0.20	0.15	0.12	
04	93	0.78	0.44	0.40	0.36	0.27	0.20	
06	134	1.14	0.65	0.57	0.50	0.37	0.27	

Recommended Cree Edge™ Series Lumen Maintenance Factors (LMF)*							
Ambient	Initial LMF	25K hr Projected LMF	50K hr Projected LMF	75K hr Projected LMF	100K hr Projected LMF	150K hr Projected LMF	200K hr Projected LMF
5°C (41°F)	1.04	1.01	0.99	0.97	0.94	0.91	0.88
10°C (50°F)	1.03	1.00	0.98	0.97	0.94	0.91	0.88
15°C (59°F)	1.02	0.99	0.97	0.94	0.91	0.88	0.84
20°C (68°F)	1.01	0.96	0.94	0.91	0.88	0.84	0.80
25°C (77°F)	1.00	0.97	0.95	0.91	0.87	0.83	0.79

Rev. Date: V2.010202016
 Cree Lighting Inc. 18000 236-6800 F 1(262) 504-5415
 Canada: www.cree.com/canada T 1(800) 473-1234 F 1(800) 890-7507

Cree Edge™ Series LED Security Wall Pack Luminaire

The Cree Edge™ wall mount luminaire has a slim, low profile design. The luminaire end caps are made from rugged die cast aluminum with integral, weatheright LED driver compartments and high performance aluminum heat sink specifically designed for LED applications. Housing is rugged aluminum. Includes a lightweight mounting box for installation over standard and mounting single gang J-Boxes. Secures to wall with four 3/16" (5mm) screws by other. Conduit entry from top, bottom, sides and rear. Allows mounting for upright or downlight. Designed and approved for easy applications. General area and security lighting.

Performance Summary

Patented NanoOptic® Product Technology
Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

CCT: 4000K (+/- 300K), 5700K (+/- 500K) standard

Limited Warranty: 10 years on luminaires/70 years on Colorfast DetaGuard® finish

See <http://lighting.cree.com/warranty> for warranty terms.

Accessories

Field-Installed

Kit Options: AA-8055PM, AA-8055SM, AA-8055SM

Head-End Remov: AA-8055SM

For expanded implementation of the programmable multi-level option, a minimum of one hand-held remote is required.

Cree Edge™ Series LED Security Wall Pack Luminaire

The Cree Edge™ wall mount luminaire has a slim, low profile design. The luminaire end caps are made from rugged die cast aluminum with integral, weatheright LED driver compartments and high performance aluminum heat sink specifically designed for LED applications. Housing is rugged aluminum. Includes a lightweight mounting box for installation over standard and mounting single gang J-Boxes. Secures to wall with four 3/16" (5mm) screws by other. Conduit entry from top, bottom, sides and rear. Allows mounting for upright or downlight. Designed and approved for easy applications. General area and security lighting.

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Head-End Remov: AA-8055SM

For expanded implementation of the programmable multi-level option, a minimum of one hand-held remote is required.

Ordering Information

Product	Optic	Mounting	LED Count (x10)	E	Voltage	Color Options	Drive Current	Options
SEC-ED	2M	2M	02	E	UL	AA	350	Dim 0-10V Dimming
	4M	4M	04	E	UL	AA	350	Dim 0-10V Dimming
	6M	6M	06	E	UL	AA	350	Dim 0-10V Dimming
	8M	8M	08	E	UL	AA	350	Dim 0-10V Dimming
	10M	10M	10	E	UL	AA	350	Dim 0-10V Dimming
	12M	12M	12	E	UL	AA	350	Dim 0-10V Dimming
	14M	14M	14	E	UL	AA	350	Dim 0-10V Dimming
	16M	16M	16	E	UL	AA	350	Dim 0-10V Dimming
	2M	2M	02	E	UL	AA	350	Dim 0-10V Dimming
	4M	4M	04	E	UL	AA	350	Dim 0-10V Dimming
	6M	6M	06	E	UL	AA	350	Dim 0-10V Dimming
	8M	8M	08	E	UL	AA	350	Dim 0-10V Dimming
10M	10M	10	E	UL	AA	350	Dim 0-10V Dimming	
12M	12M	12	E	UL	AA	350	Dim 0-10V Dimming	
14M	14M	14	E	UL	AA	350	Dim 0-10V Dimming	
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Ordering Information

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	4M	4M	04	E	UL	AA	350	Dim 0-10V Dimming
	6M	6M	06	E	UL	AA	350	Dim 0-10V Dimming
	8M	8M	08	E	UL	AA	350	Dim 0-10V Dimming
	10M	10M	10	E	UL	AA	350	Dim 0-10V Dimming
	12M	12M	12	E	UL	AA	350	Dim 0-10V Dimming
	14M	14M	14	E	UL	AA	350	Dim 0-10V Dimming
	16M	16M	16	E	UL	AA	350	Dim 0-10V Dimming
	2M	2M	02	E	UL	AA	350	Dim 0-10V Dimming
	4M	4M	04	E	UL	AA	350	Dim 0-10V Dimming
	6M	6M	06	E	UL	AA	350	Dim 0-10V Dimming
	8M	8M	08	E	UL	AA	350	Dim 0-10V Dimming
10M	10M	10	E	UL	AA	350	Dim 0-10V Dimming	
12M	12M	12	E	UL	AA	350	Dim 0-10V Dimming	
14M	14M	14	E	UL	AA	350	Dim 0-10V Dimming	
16M	16M	16	E	UL	AA	350	Dim 0-10V Dimming	

Rev. Date: V2.010202016
 Cree Lighting Inc. 18000 236-6800 F 1(262) 504-5415
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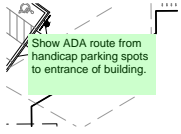
Cree Edge™ LED Security Wall Pack Luminaire

Product Specifications

- Slim, low profile design
- Luminaire sides are rugged die cast aluminum with integral, weatheright LED driver compartment and high performance aluminum heat sink specifically designed for LED applications
- Housing is rugged aluminum
- Furnished with low copper, light weight mounting box designed for installation over standard and mounting single gang J-Boxes
- Luminaire can also be direct mounted to a wall and surface

Markup Summary

dsdkendall (1)



Subject: Text Box
Page Label: [2] SP01
Author: dsdkendall
Date: 6/13/2018 3:21:29 PM
Color: ■

Show ADA route from handicap parking spots to entrance of building.