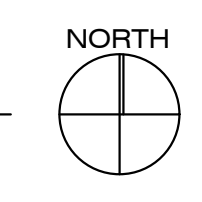


ELECTRICAL SITE PLAN
1" = 30'-0"



KEYED NOTES:

1. PRIMARY FEEDER BY MVEA.
2. NEW MVEA TRANSFORMER AND CONCRETE PAD PROVIDED AND INSTALLED BY MVEA.
3. NEW FEEDER FROM THE MVEA TRANSFORMER TO THE SES. REFER TO THE ONELINE DIAGRAM ON SHEET E-501 FOR FEEDER CONDUIT/WIRE SIZE.
4. NEW 800A, 480Y/277V, 3Ø, 4W, SES.
5. ROUTE CONDUITS TO THE TELECOM COMPANY SOURCE.
6. NEW (2) 4" C, WITH PULLSTRING, FROM THE TELECOM COMPANY SOURCE TO IT 129, PER TELECOM COMPANY SPECIFICATIONS AND REQUIREMENTS.
7. STUB-UP CONDUITS IN IT 129. COORDINATE EXACT STUB-UP LOCATION WITH THE OWNER.

NOTES:

- A. COORDINATE ALL WORK WITH OTHER TRADES, OWNER, RIGHT-OF-WAY FOR OTHER UTILITIES AND THE PROJECT MANAGER.
- B. ROUTING OF ALL TRENCHES FOR POWER AND TELECOM FEEDERS ARE SHOWN FOR ESTIMATING PURPOSES ONLY. ACTUAL ROUTING AND LOCATION, AS WELL AS DEPTH OF ALL TRENCHING SHALL BE AS COORDINATED WITH OTHER UTILITIES BY THE CONTRACTOR.
- C. CONTRACTOR SHALL PROVIDE AND INSTALL MANHOLES/PULLBOXES/HANDHOLES, AS REQUIRED, TO FACILITATE INSTALLATION OF POWER AND TELECOM FEEDERS.
- D. ALL CONDUITS SHOWN ON THIS PLAN SHALL BE RUN UNDERGROUND AT A MINIMUM OF 24" BELOW GRADE, UNLESS REQUIRED OTHERWISE BY THE UTILITY COMPANY.
- E. PROVIDE A MINIMUM OF 24" SEPARATION BETWEEN POWER AND TELECOM CONDUITS.
- F. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40, UNLESS REQUIRED OTHERWISE BY THE UTILITY COMPANY.
- G. ALL UNDERGROUND BENDS AND ALL RISERS SHALL BE TAPED RGS OR PVC COATED RIGID CONDUIT, UNLESS REQUIRED OTHERWISE BY THE UTILITY COMPANY.
- H. ALL EXTERIOR ABOVE GROUND CONDUIT SHALL BE RGS.
- I. MINIMUM CONDUIT SIZE SHALL BE 1".
- J. MINIMUM WIRE SIZE SHALL BE #8 THHN/THWN-2 CU.
- K. REFER TO THE PANEL SCHEDULES FOR CONDUIT/WIRE SIZE AND LOAD DESIGNATIONS. THERE SHALL BE NO SHARED NEUTRALS.
- L. POLE MOUNTED LIGHT FIXTURES SHALL BE CONTROLLED AS FOLLOWS - PHOTOCELL ON, ASTRONOMIC TIME CLOCK OFF (DUSK TO DAWN SECURITY LIGHTING).
- M. REFER TO SHEET E-801 FOR THE LUMINAIRE SCHEDULE.



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Tammy Sweers
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HONOR CHARTER SCHOOL
HONOR CHARTER SCHOOL BUILDING CORPORATION
8250 Bent Grass Meadows Drive, Peyton, Colorado 80831
Owner Project No. 3225193
AGENCY NUMBER: AHCA-123456.78

REV. #	DESCRIPTION	DATE
1	AS1 #1 ARE COORDINATION	06/12/26
2	AS1 #2 EPC COMMENTS	06/25/26

DATE OF ISSUE: 04.30.2026
PHASE: CONSTRUCTION DOCUMENTS
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ELECTRICAL
SITE PLAN



OWNER/CLIENT
Honor Charter School Building Corporation
1257 E. Caley Avenue
Centennial, Colorado 80111

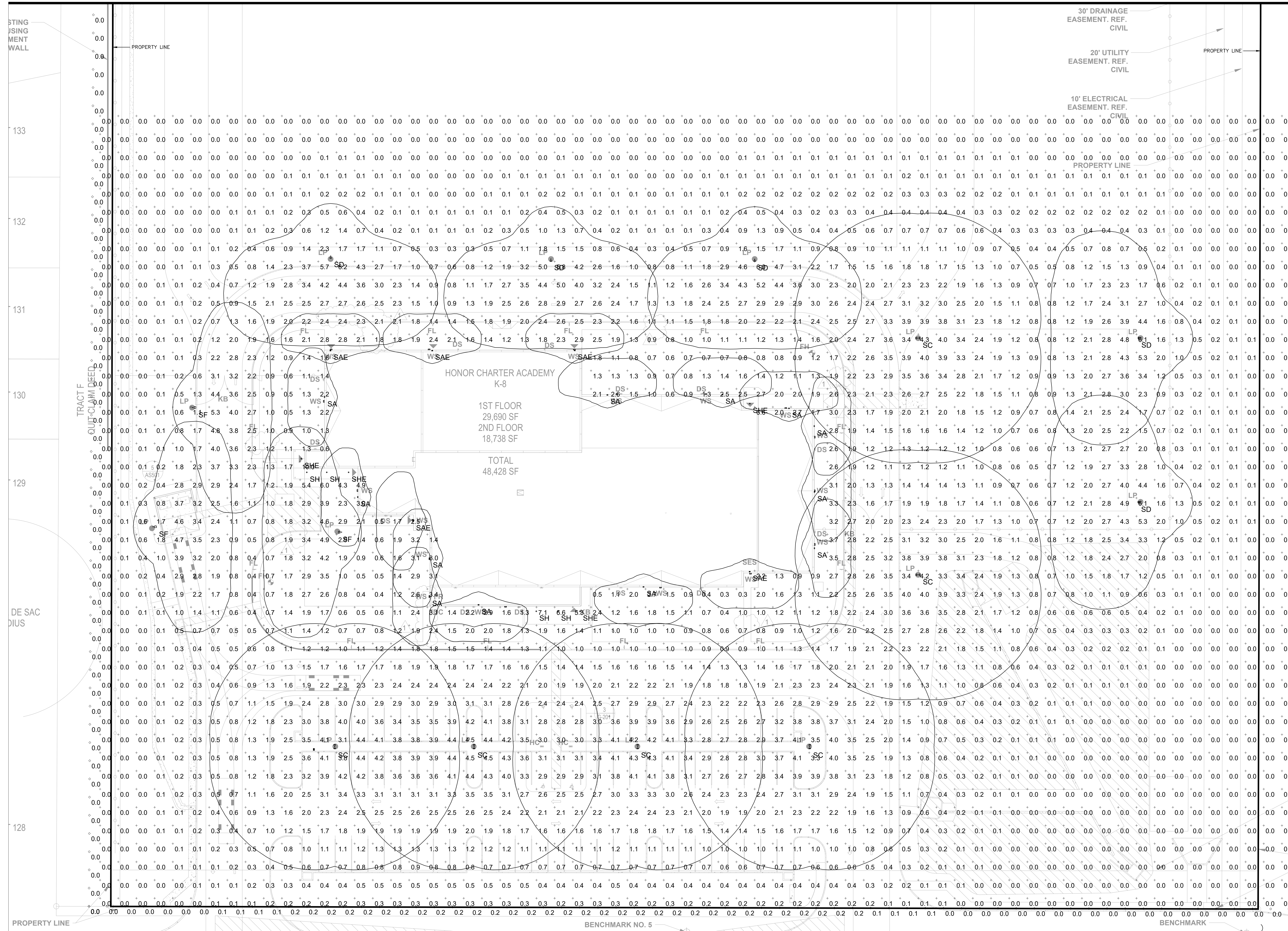
Tammy Sweeris
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HONOR CHARTER SCHOOL

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8250 Bent Grass Meadows Drive, Peyton, Colorado 80831
Owner/Project No. 3225193
AGENCY NUMBER: AHCA-1234567.8

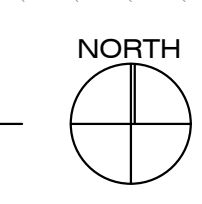
REV. #	DESCRIPTION	DATE
1	AS1 #1 ARE COORDINATION	06/12/20
2	AS1 #2 EPC COMMENTS	06/25/20

DATE OF ISSUE: 04.30.2026
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Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PROPERTY LINE AT GRADE	◇	0.0 fc	0.2 fc	0.0 fc	N/A	N/A
FC ON SITE AT GRADE	+	1.1 fc	10.0 fc	0.0 fc	N/A	N/A

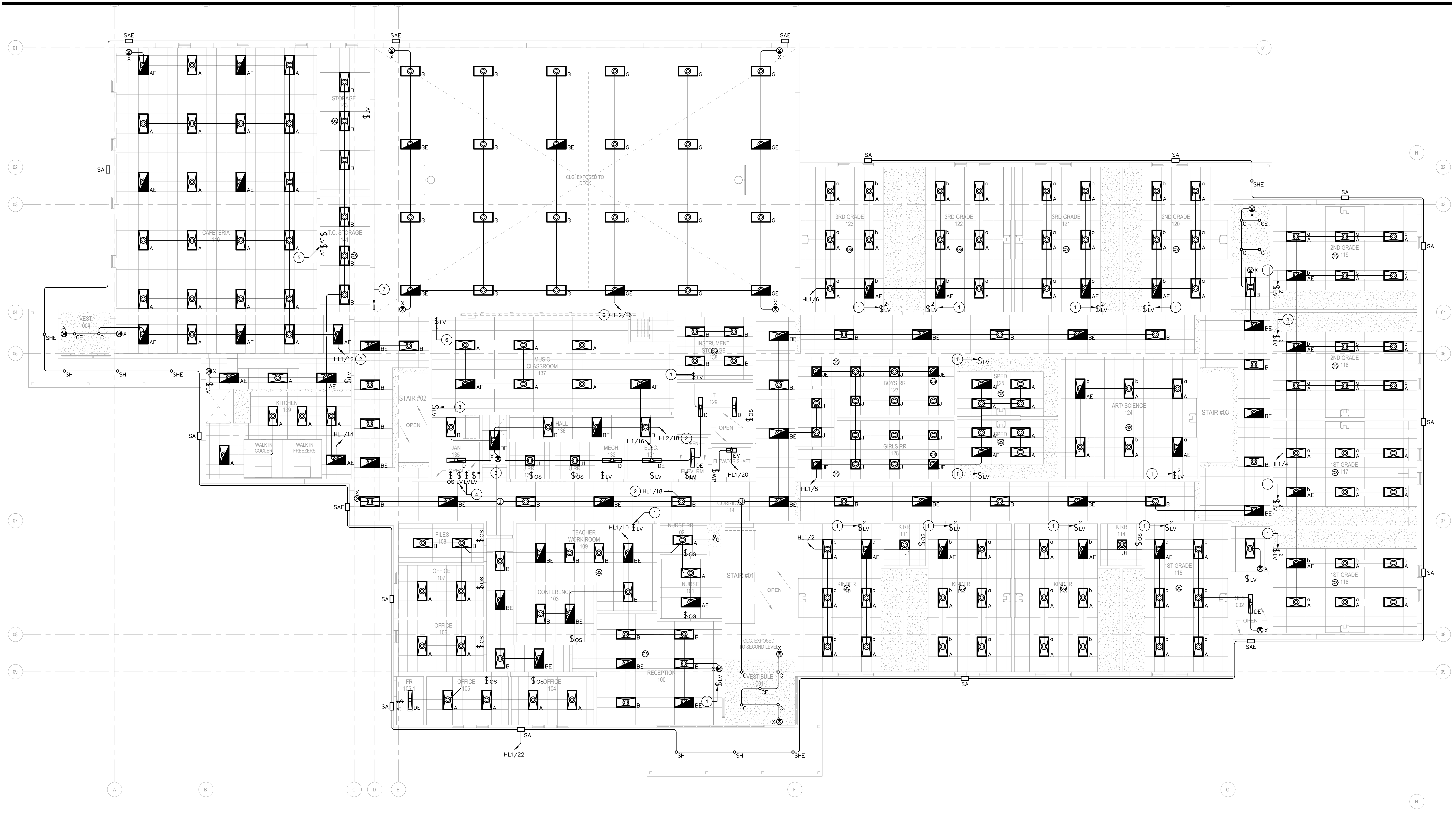
SITE PHOTOMETRIC PLAN
N.T.S.





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OWNER/CIENT



FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"
NORTH

KEYED NOTES:

1. NEW LOW VOLTAGE, MANUAL OVERRIDE, DIMMER SWITCH FOR THE CEILING MOUNTED OCCUPANCY SENSOR IN THE ROOM. PROVIDE AND INSTALL ALL ASSOCIATED CONDUIT/WIRE.
2. ROUTE CIRCUIT THROUGH A TIME CLOCK.
3. NEW LOW VOLTAGE, MANUAL OVERRIDE, DIMMER SWITCH FOR CONTROL OF THE LIGHT FIXTURES IN THE CORRIDOR 114/VESTIBULE 001, 002. PROVIDE AND INSTALL ALL ASSOCIATED CONDUIT/WIRE.
4. NEW LOW VOLTAGE, MANUAL OVERRIDE, DIMMER SWITCHES FOR THE CEILING MOUNTED OCCUPANCY SENSORS IN THE RESTROOM 127/128. PROVIDE AND INSTALL ALL ASSOCIATED CONDUIT/WIRE.
5. NEW LOW VOLTAGE, MANUAL OVERRIDE, DIMMER SWITCH FOR CONTROL OF THE LIGHT FIXTURES IN THE CAFETERIA 140. PROVIDE AND INSTALL ALL ASSOCIATED CONDUIT/WIRE.
6. NEW LOW VOLTAGE, MANUAL OVERRIDE, DIMMER SWITCHES FOR CONTROL OF THE MUSIC CLASSROOM 137 LIGHT FIXTURES. PROVIDE AND INSTALL ALL ASSOCIATED CONDUIT/WIRE.
7. NEW LOCK BOX WITH LOW VOLTAGE, MANUAL OVERRIDE, DIMMER SWITCHES FOR CONTROL OF THE GYMNASIUM LIGHT FIXTURES. PROVIDE AND INSTALL ALL ASSOCIATED CONDUIT/WIRE.
8. NEW LOW VOLTAGE, MANUAL OVERRIDE, DIMMER SWITCH FOR CONTROL OF THE HALL 136 LIGHT FIXTURES. PROVIDE AND INSTALL ALL ASSOCIATED CONDUIT/WIRE.

NOTES:

- A. COORDINATE ALL WORK WITH OTHER TRADES, OWNER AND THE PROJECT MANAGER.
- B. VERIFY LOCATION AND MOUNTING HEIGHT OF ALL LIGHT FIXTURES WITH THE ARCHITECT/OWNER PRIOR TO ROUGH-IN.
- C. THE EXIT AND CORRIDOR/HALLWAY EMERGENCY LIGHT FIXTURES SHALL NOT BE SWITCHED.
- D. MINIMUM CONDUIT SIZE SHALL BE 3/4".
- E. MINIMUM WIRE SIZE SHALL BE #12 THHN/THWN-2 CU.
- F. REFER TO THE PANEL SCHEDULE FOR CONDUIT/WIRE SIZE AND LOAD DESIGNATIONS. THERE SHALL BE NO SHARED NEUTRALS.
- G. REFER TO SHEET E-801 FOR THE LUMINAIRE AND CONTROL SCHEDULES.
- H. PROVIDE AND INSTALL ALL CONDUIT, WIRING AND BOXES NECESSARY FOR A COMPLETE SENSOR SYSTEM. PER THE MANUFACTURER'S WIRING DIAGRAM. SET VACATE TIME AT 15 MINUTES OR PER OWNER REQUIREMENTS.
- I. ALL OCCUPANCY SENSORS SHALL BE LOCATED FOR OPTIMUM PERFORMANCE.
- J. CONDUIT(S) SHALL NOT BE MOUNTED EXPOSED ON ANY EXTERIOR BUILDING WALL.
- K. EXTERIOR BUILDING MOUNTED LIGHT FIXTURES SHALL BE CONTROLLED AS FOLLOWS - PHOTOCCELL ON, ASTRONOMIC TIME CLOCK OFF.
- L. REFER TO ELEVATIONS ON ARCHITECTURAL DRAWINGS FOR EXACT EXTERIOR LIGHT FIXTURE LOCATION AND MOUNTING HEIGHT.

IECC COMPLIANCE NOTE:

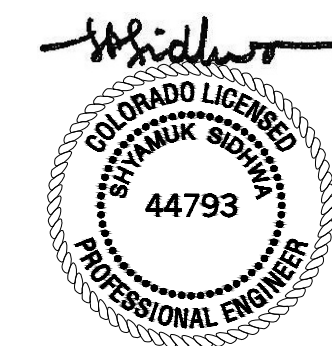
- OCCUPANCY SENSORS ARE NOT PROVIDED IN THE ELECTRICAL, FIRE RISER, ELEVATOR MACHINE ROOMS BECAUSE DOING SO COULD ENDANGER THE SAFETY OF THE OCCUPANT.

HONOR CHARTER SCHOOL
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8250 Bent Grass Meadows Drive, Peyton, Colorado 80831
Owner Project No. 3225193
AGENCY NUMBER: AHCA-1234567.8

REV. #	DESCRIPTION	DATE

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FIRST FLOOR LIGHTING PLAN



Exterior Luminaire Schedule							
Label	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power
SA	Lithonia Lighting	WDGE2 LED P2 30K 80CRI T3M	WDGE2 LED WITH P2 - PERFORMANCE PACKAGE, 3000K, 80CRI, TYPE 3 MEDIUM OPTIC LISTED FOR WET/DAMP LOCATIONS	1	1964	0.95	18.9815
SAE	Lithonia Lighting	WDGE2 LED P2 30K 80CRI T3M E10WH	WDGE2 LED WITH P2 - PERFORMANCE PACKAGE, 3000K, 80CRI, TYPE 3 MEDIUM OPTIC W/ 90 min. Battery Back-up LISTED FOR WET/DAMP LOCATIONS	1	1964	0.95	18.9815
SC	Lithonia Lighting	(2)RSX1 LED P4 30K R5/SSS 22.5' POLE ON 2.5' BASE	RSX Area Fixture Size 1 P4 Lumen Package 3000K CCT Type R5 Distribution LISTED FOR WET/DAMP LOCATIONS	1	15286	0.95	266.28
SD	Lithonia Lighting	RSX1 LED P4 30K R3/SSS 22.5' POLE ON 2.5' BASE	RSX Area Fixture Size 1 P4 Lumen Package 3000K CCT Type R3 Distribution LISTED FOR WET/DAMP LOCATIONS	1	14889	0.95	133.14
SF	Lithonia Lighting	RSX1 LED P4 30K R3 HS/SSS 22.5' POLE ON 2.5' BASE	RSX LED Area Luminaire Size 1 P4 Lumen Package 3000K CCT Type R3 Distribution with HS shield LISTED FOR WET/DAMP LOCATIONS	1	10451	0.95	133.14
SH	Lithonia Lighting	LDN6 30/10 LO6AR LSS	6IN LDN, 3000K, 1000LM, CLEAR, SEMI-SPECULAR REFLECTOR, CR180 LISTED FOR WET/DAMP LOCATIONS	1	938	0.95	10.44
SHE	Lithonia Lighting	LDN6 30/10 LO6AR LSS EL	6IN LDN, 3000K, 1000LM, CLEAR, SEMI-SPECULAR REFLECTOR, CR180 W/ 90 min. Battery Back-up LISTED FOR WET/DAMP LOCATIONS	1	938	0.95	10.44

Controls Schedule			
Symbol	Manufacturer	Catalog Number	Description
OS	nLIGHT	nCM PDT 10 RJB AR/PP20	LOW VOLTAGE CEILING MOUNTED DUAL TECH MOTION SENSOR
\$ _{LV}	nLIGHT	nPODM DX WH	LOW VOLTAGE DIMMING WALL SWITCH
\$ _{LV} ²	nLIGHT	nPODM 2P DX WH	2 ZONE LOW VOLTAGE DIMMING WALL SWITCH
\$ _{OS}	nLIGHT	nWSX PDT LV DX WH	LOW VOLTAGE WALL MOUNTED DUAL TECH MOTION SENSOR DIMMER

Interior Luminaire Schedule							
Label	Manufacturer	Catalog	Description	Lamp	Lamp Output	LLF	Input Power
A	LITHONIA	CPX 2x4 6000LM 90CRI 35K SWL MIN10 MVOLT	2X4 LED FLAT PANEL, MOUNTED AT 9', 11' & 22'	3500K LED	5394	0.95	43.31
AE	LITHONIA	CPX 2x4 6000LM 90CRI 35K SWL MIN10 MVOLT E10W	2X4 LED FLAT PANEL, MOUNTED AT 9', 11' & 22' W/ 90 min. Battery Back-up	3500K LED	5394	0.95	43.31
B	LITHONIA	CPX 2x4 4000LM 90CRI 35K SWL MIN10 MVOLT	2X4 LED FLAT PANEL, MOUNTED AT 9'	3500K LED	3486	0.95	26.79
BE	LITHONIA	CPX 2x4 4000LM 90CRI 35K SWL MIN10 MVOLT E10W	2X4 LED FLAT PANEL, MOUNTED AT 9' W/ 90 min. Battery Back-up	3500K LED	3486	0.95	26.79
C	LITHONIA	LDN6 35/10 LO6AR LSS MVOLT GZ10	6" LED DOWNLIGHT, MOUNTED AT 8' & 9'	3500K LED	938	0.95	10.44
CE	LITHONIA	LDN6 35/10 LO6AR LSS MVOLT GZ10 EL	6" LED DOWNLIGHT, MOUNTED AT 8' & 9' W/ 90 min. Battery Back-up	3500K LED	938	0.95	10.44
D	LITHONIA	CLX L48 4000LM SEF RDL MVOLT GZ10 35K 80CRI (FINISH)	LED STRIP LIGHT, MOUNTED AT 8'	3500K LED	3906	0.95	25.54
DE	LITHONIA	CLX L48 4000LM SEF RDL MVOLT GZ10 35K 80CRI E10W (FINISH)	LED STRIP LIGHT, MOUNTED AT 8' W/ 90 min. Battery Back-up	3500K LED	3906	0.95	25.54
G	LITHONIA	IBG 18000LM SEF PFL GND MVOLT GZ10 35K 80CRI (FINISH)	LED HIGH BAY, MOUNTED AT 23'	3500K LED	14587	0.95	106.43
GE	LITHONIA	IBG 18000LM SEF PFL GND MVOLT GZ10 35K 80CRI E10W (FINISH)	LED HIGH BAY, MOUNTED AT 23' W/ 90 min. Battery Back-up	3500K LED	14587	0.95	106.43
J	Lithonia Lighting	CPX 2X2 3200LM 90CRI 35K SWL MVOLT	Recessed Ambient, 2ft X 2ft, 3200 Lumens, 90 CRI 3500K, Satin White Lens, 120-277V	3500K LED	2881	0.95	23.29
JE	Lithonia Lighting	CPX 2X2 3200LM 90CRI 35K SWL MVOLT	Recessed Ambient, 2ft X 2ft, 3200 Lumens, 90 CRI 3500K, Satin White Lens, 120-277V W/ 90 min. Battery Back-up	3500K LED	2881	0.95	23.29
J1	LITHONIA	CPX 2X2 5000LM 90CRI 35K SWL MVOLT	2X2 LED FLAT PANEL, MOUNTED AT 9'	3500K LED	4154	0.95	34.92
X	LITHONIA	LQM S (FINISH) 3 (COLOR) MVOLT	LED EXIT SIGN W/ 90 min. Battery Back-up	LED	451	1	5.48

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OWNER/CIENT

HONOR CHARTER SCHOOL
HONOR CHARTER SCHOOL BUILDING CORPORATION
8250 Bent Grass Meadows Drive, Peyton, Colorado 80831
Owner Project No. 3225193
AGENCY NUMBER: AHCA-123456.78

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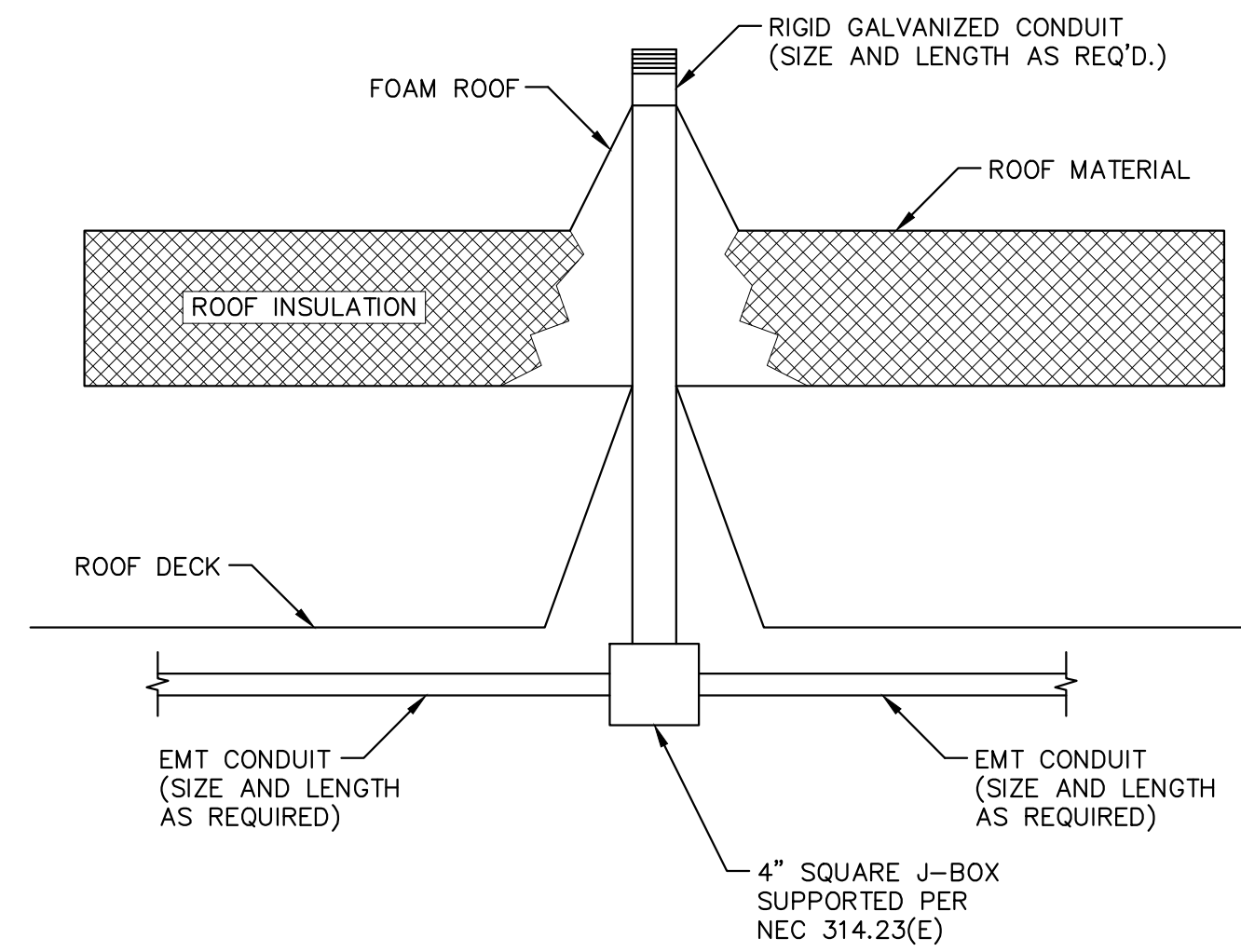
DATE OF ISSUE: 04.30.2026

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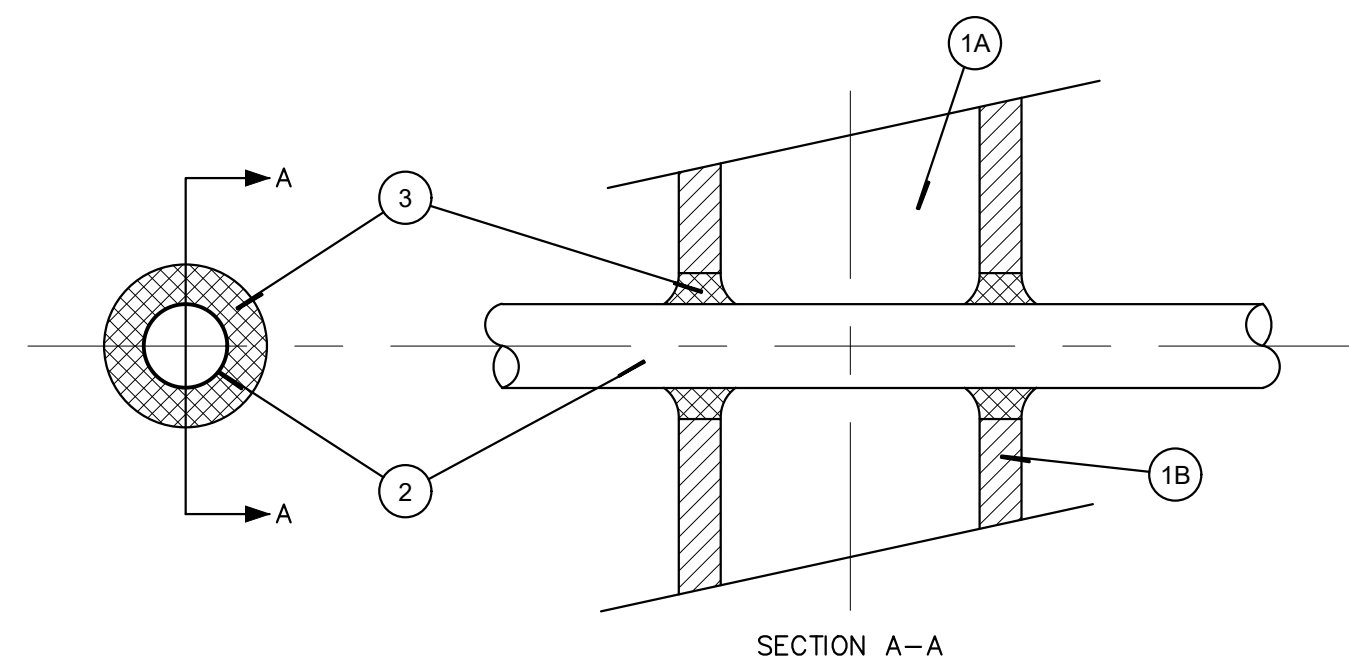
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LUMINAIRE AND CONTROL SCHEDULES

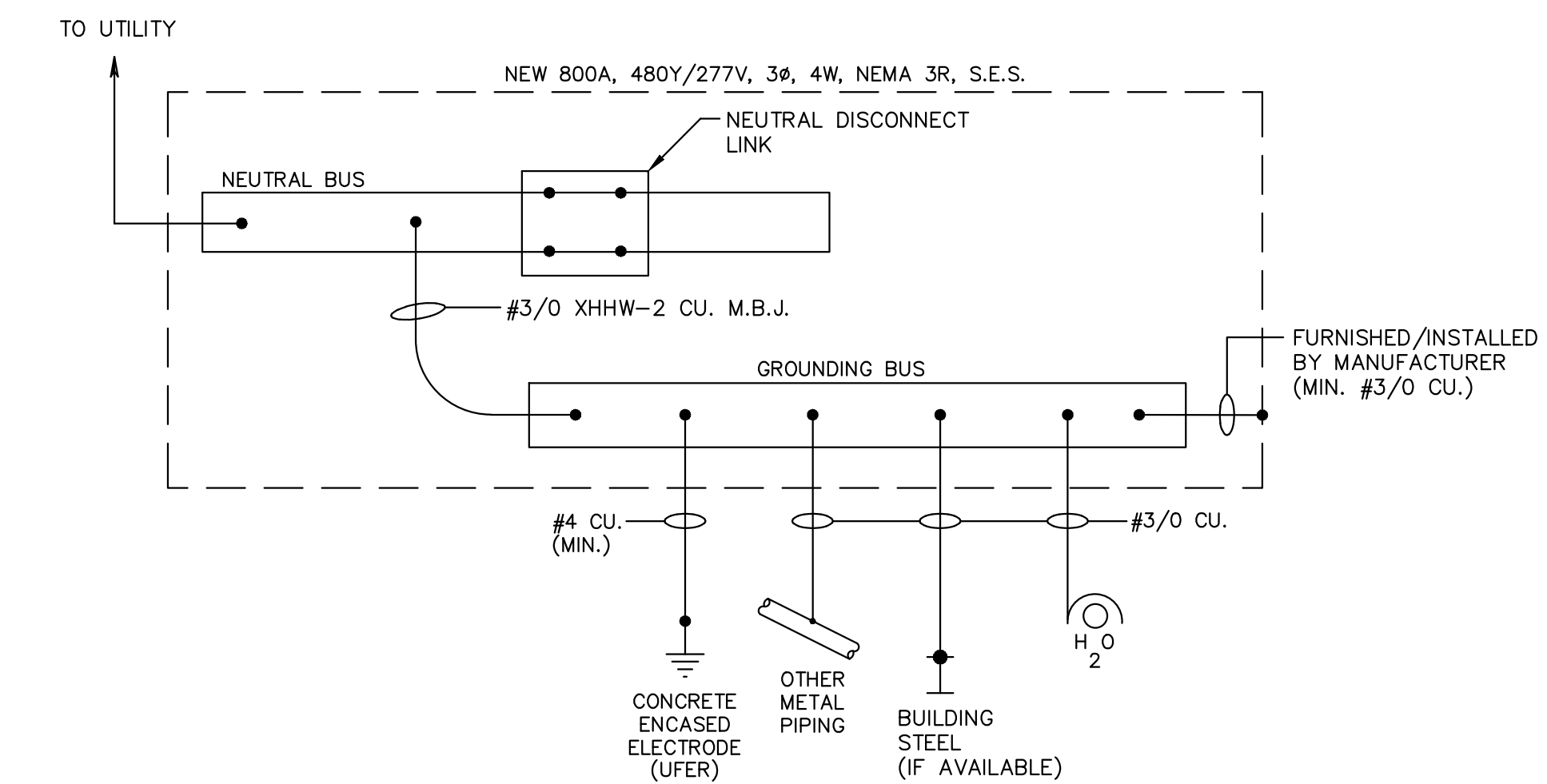


CONDUIT PENETRATION AT ROOF
N.T.S.



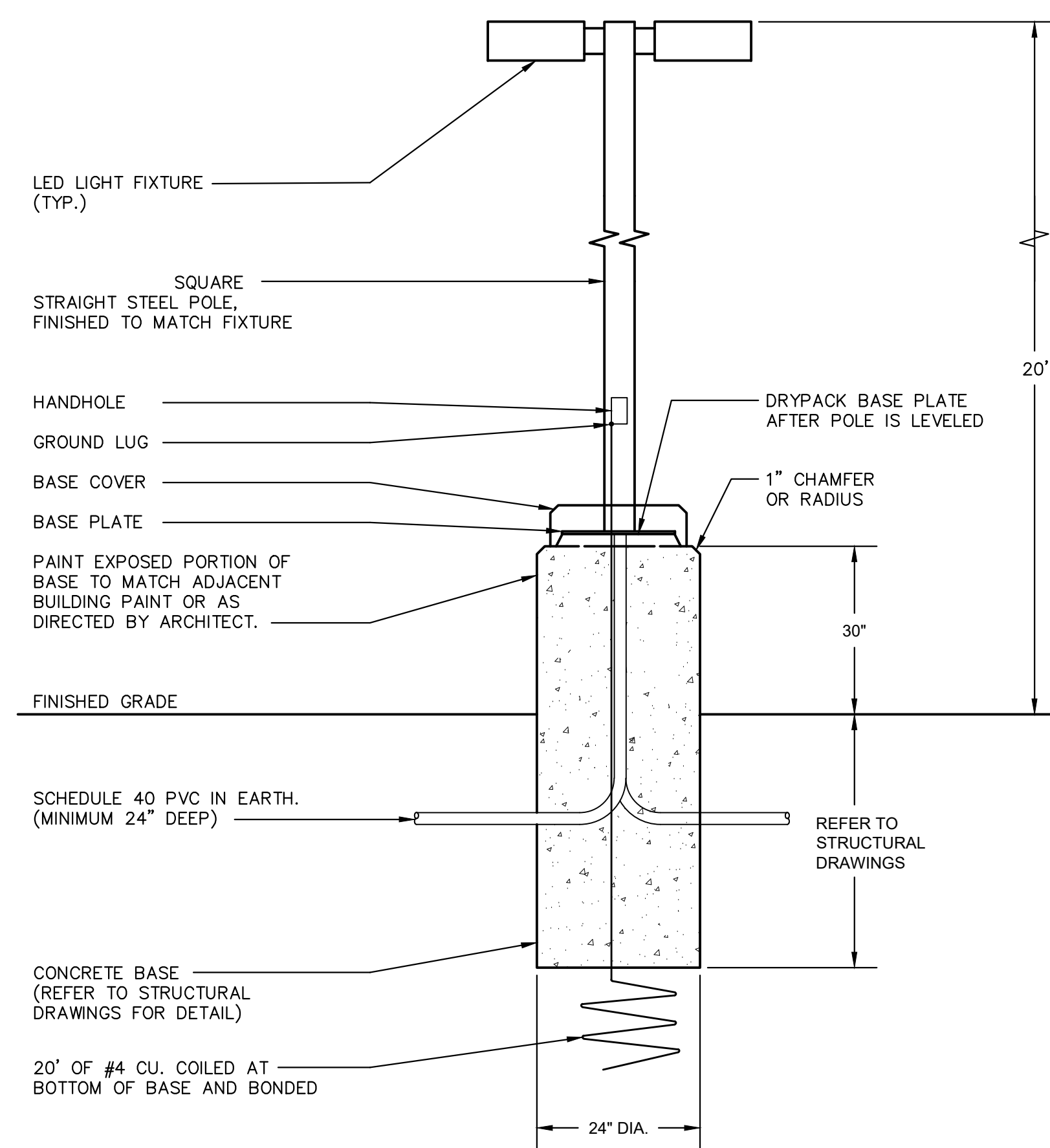
- Wall Assembly - The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in lumber spaced 16 in. OC. Steel studs to be min. 2-1/2 in. wide and spaced max. 24 in. OC.
 - Wallboard Gypsum - One layer of 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diameter of opening is 12 in.
- Through Penetrants - One metallic pipe, conduit or tubing to be centered within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. An annular space of min. 1/4 in. to max. 1-1/4 in. is required within the firestop system. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Steel Pipe - Nom 10 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Conduit - Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.
 - Copper Tubing - Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
 - Copper Pipe - Nom 4 in. (or smaller) regular (or heavier) copper tubing.
- Fill, Void or Cavity Material - Sealant - Min. 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall.

CONDUIT THRU 1-HR RATED WALL
N.T.S.



SES GROUNDING DETAIL
N.T.S.

- NOTES:**
PROVIDE AND INSTALL AN INTERSYSTEM BONDING TERMINATION AS REQUIRED PER NEC 250.94.



'SC'/'SD'/'SF' FIXTURE POLE MOUNTING DETAIL
N.T.S.

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DETAILS

V1_Lighting Plan.pdf Markup Summary

dsdparsons (9)

IES SHALL BE CONTROLLED AS FOLLOWS - PHOTOCELL
OR
A THE SHUTOFF SCHEDULE.

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Author: dsdparsons
Date: 6/9/2026 1:34:37 PM
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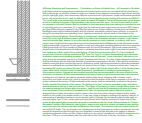
identify hours, height, cut off etc see Land
Development Code, section 6.2.3

identify hours, height,
cut off etc see Land
Development Code,
section 6.2.3

SHUT OFF SCHEDULE IS DESIGNED TO COMPLY WITH THE
ABOVE. SHUT OFF SCHEDULE "NOTE L" HAS BEEN ADDED
TO GENERAL NOTES/ REF SHEET ES-111.

REFER TO ATTACHED WRITTEN RESPONSE

S. SIDHWA
6/25/26



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REFER TO ATTACHED WRITTEN RESPONSE

S. SIDHWA
6/25/26

(B)Design Standards and Requirements.
(1)Limitations on Extent of Lighted Area.

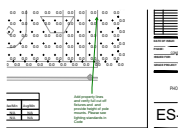
(a)Concealed or Shielded. Light fixtures shall be arranged and positioned such that the light sources are concealed and fully shielded so that no direct light or reflection creates a nuisance or hazard to any adjacent ownership or right-of-way and that up-light, spill-light, glare, and unnecessary diffusion are minimized. Light fixtures, except as otherwise permitted herein, are required to be full cutoff as defined by the Illuminating Engineers Society of North America (IESNA) The cut-off angle of an exterior light source shall not exceed 90 degrees. Full cut-off fixtures may not be tilted or aimed in a manner that results in light distribution above the horizontal plane. The use of semi-cutoff or cutoff (as opposed to full cutoff) fixtures shall be permitted to illuminate areas other than parking lots provided the pole or mounting point is no more than 10' in height and the maximum lumen output does not exceed 1800 lumens per lamp.(b)Non-Security Lighting During

Non-Operating Hours. Exterior lighting, including but not limited to floodlights used to light a building façade, shall be reduced, activated by motion sensor devices, or turned off during the principal use's non-operating hours. Lighting necessary for security shall not be subject to this

provision.(c)Upward Lighting. Upward lighting for architectural, landscape or decorative purposes shall have at least 90% of the total distribution pattern within the profile of the illuminated structure or feature. Light fixtures used to illuminate flags, statues, or any other objects mounted on a pole, pedestal, or platform, shall use a narrow cone of light that does not extend beyond the illuminated object.(d)Maximum Levels. Maximum on-site lighting levels shall not exceed 10 foot candles, except for loading and unloading platforms where the maximum lighting level shall be 20 foot candles.(e)Measurement at Property Boundaries.

Light levels measured at the property line of the development site adjacent to residential property or public right of way shall not exceed 0.1 foot candles as a direct result of the on-site lighting. All light fixtures mounted within 15' of any residential property line of the site shall be classified as IES Type II or Type III, or fixture demonstrated to provide similar distribution patterns and shielding properties. Fixtures shall be fitted with "house side shield" reflectors on the sides facing the residential property line.(f)Light Standards and Fixtures. The style of light standards and fixtures shall be consistent with the style and character of

architecture proposed on the site. Poles shall be anodized or coated to minimize glare from the light source. Bollards or similar light fixtures intended to illuminate landscape features or walkways are permitted which do not exceed 4 feet in height, 2 fixtures per bollard and 1 lamp not exceeding 900 lumens per fixture.(g)Lamp Types. All outdoor light fixtures should utilize 1 of the following lamp types: metal halide, induction lamp, compact fluorescent, incandescent (including tungsten-halogen), or high-pressure sodium. Alternatives are permitted provided they are demonstrated to be more effective for the proposed use based on IESNA recommendations.(h)Canopy Lighting. Light fixtures associated with canopies, including but not limited to fuel islands, seasonal outdoor sales areas, shopping malls, theaters, bank drive-thrus,



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Author: dsdparsons
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Add property lines and verify full cut off fixtures and provide height of pole mounts. Please see lighting standards in Code



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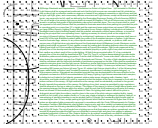
6.2.3. Lighting

(A)General. (1)Purpose. The purpose of this Section is to address the physical effects of lighting, and the affect that lighting may have on the surrounding neighborhood.
(2)Applicability. This Section applies in all zoning districts, except as otherwise provided.

PROPERTY LINES HAVE BEEN IDENTIFIED

REFER TO ATTACHED WRITTEN RESPONSE

S. SIDHWA
6/25/26



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S. SIDHWA
6/25/26

(B)Design Standards and Requirements.

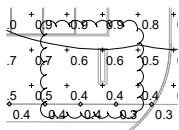
(1)Limitations on Extent of Lighted Area.

(a)Concealed or Shielded. Light fixtures shall be arranged and positioned such that the light sources are concealed and fully shielded so that no direct light or reflection creates a nuisance or hazard to any adjacent ownership or right-of-way and that up-light, spill-light, glare, and unnecessary diffusion are minimized. Light fixtures, except as otherwise permitted herein, are required to be full cutoff as defined by the Illuminating Engineers Society of North America (IESNA) The cut-off angle of an exterior light source shall not exceed 90 degrees. Full cut-off fixtures may not be tilted or aimed in a manner that results in light distribution above the horizontal plane. The use of semi-cutoff or cutoff (as opposed to full cutoff) fixtures shall be permitted to illuminate areas other than parking lots provided the pole or mounting point is no more than 10' in height and the maximum lumen output does not exceed 1800 lumens per lamp.(b)Non-Security Lighting During

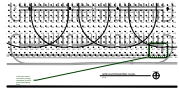
Non-Operating Hours. Exterior lighting, including but not limited to floodlights used to light a building façade, shall be reduced, activated by motion sensor devices, or turned off during the principal use's non-operating hours. Lighting necessary for security shall not be subject to this

provision.(c)Upward Lighting. Upward lighting for architectural, landscape or decorative purposes shall have at least 90% of the total distribution pattern within the profile of the illuminated structure or feature. Light fixtures used to illuminate flags, statues, or any other objects mounted on a pole, pedestal, or platform, shall use a narrow cone of light that does not extend beyond the illuminated object.(d)Maximum Levels. Maximum on-site lighting levels shall not exceed 10 foot candles, except for loading and unloading platforms where the maximum lighting level shall be 20 foot candles.(e)Measurement at Property Boundaries.

Light levels measured at the property line of the development site adjacent to residential property or public right of way shall not exceed 0.1 foot candles as a direct result of the on-site lighting. All light fixtures mounted within 15' of any residential property line of the site shall be classified as IES Type II or Type III, or fixture demonstrated to provide similar distribution patterns and shielding properties. Fixtures shall be fitted with "house side shield" reflectors on the sides facing the residential property line.(f)Light Standards and Fixtures. The style of light standards and fixtures shall be consistent with the style and character of architecture proposed on the site. Poles shall be anodized or coated to minimize glare from the light source. Bollards or similar light fixtures intended to illuminate landscape features or walkways are permitted which do not exceed 4 feet in height, 2 fixtures per bollard and 1 lamp not exceeding 900 lumens per fixture.(g)Lamp Types. All outdoor light fixtures should utilize 1 of the following lamp types: metal halide, induction lamp, compact fluorescent, incandescent (including tungsten-halogen), or high-pressure sodium. Alternatives are permitted provided they are demonstrated to be more effective for the proposed use based on IESNA recommendations.(h)Canopy Lighting. Light fixtures associated with canopies, including but not limited to fuel islands, seasonal outdoor sales areas, shopping malls, theaters, bank drive-thrus,



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Subject: Planner
Page Label: [1] 26030ES112-ELEC
Author: dsdparsons
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is this sign electric and does it change messages?
provide lumens at property lines



Subject: Highlight
Page Label: [1] 26030ES113-ELEC
Author: dsdparsons
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Subject: Planner
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Is this what you are proposing to reduce impacts to residents?

1 & 2. DESIGN INTENT IS TO PROVIDE POWER FOR FUTURE SCHOOL SIGNAGE BY OTHERS/ SIGNAGE IS PROPOSED TO BE BACKLIT STATIC SCHOOL NAME AND LOGO

3 & 4. "HOUSE SIDE SHEILDS" HAVE BEEN SPECIFIED AT LIGHT POLES TO REDUCE POTENTIAL GLARE INTO RESIDENTIAL AREAS/ REF SHEET ES-113 FOR CUT SHEETS.

TREES/ LANDSCAPE BUFFERS ARE ALSO PROVIDED AT THE SOUTH PROPERTY LINE TO REDUCE POTENTIAL LIGHT POLUTION.

SECONDARY OPTION "EXTERNAL GLARE SHIELD" IS PROVIDED, SHOULD EPC REQUIRE MORE THAN SPECIFIED.

REFER TO ATTACHED WRITTEN RESPONSE

S. SIDHWA
6/25/26

RESPONSE:

(B)Design Standards and Requirements.

(1)Limitations on Extent of Lighted Area.

(A)Concealed or Shielded. Light fixtures shall be arranged and positioned such that the light sources are concealed and fully shielded so that no direct light or reflection creates a nuisance or hazard to any adjacent ownership or right-of-way and that up-light, spill-light, glare, and unnecessary diffusion are minimized.

"HOUSE SIDE SHEILDS" HAVE BEEN SPECIFIED AT LIGHT POLES TO REDUCE POTENTIAL GLARE INTO RESIDENTIAL AREAS/ REF SHEET ES-113 FOR CUT SHEETS. TREES/ LANDSCAPE BUFFERS ARE ALSO PROVIDED AT THE SOUTH PROPERTY LINE TO REDUCE POTENTIAL LIGHT POLLUTION. SECONDARY OPTION "EXTERNAL GLARE SHIELD" IS PROVIDED, SHOULD EPC REQUIRE MORE THAN SPECIFIED.

Light fixtures, except as otherwise permitted herein, are required to be full cutoff as defined by the Illuminating Engineers Society of North America (IESNA) The cut-off angle of an exterior light source shall not exceed 90 degrees. Full cut-off fixtures may not be tilted or aimed in a manner that results in light distribution above the horizontal plane. The use of semi-cutoff or cutoff (as opposed to full cutoff) fixtures shall be permitted to illuminate areas other than parking lots provided the pole or mounting point is no more than 10' in height and the maximum lumen output does not exceed 1800 lumens per lamp.

CONFIRMED/ ALL LUMINAIRES ARE FULL CUT OFF. REF SHEET ES-112.

(B)Non-Security Lighting During Non-Operating Hours. Exterior lighting, including but not limited to floodlights used to light a building façade, shall be reduced, activated by motion sensor devices, or turned off during the principal use's non-operating hours. Lighting necessary for security shall not be subject to this provision.

SHUT OFF SCHEDULE IS DESIGNED TO COMPLY WITH THE ABOVE. SHUT OFF SCHEDULE "NOTE L" HAS BEEN ADDED TO GENERAL NOTES/ REF SHEET ES-111.

(c)Upward Lighting. Upward lighting for architectural, landscape or decorative purposes shall have at least 90% of the total distribution pattern within the profile of the illuminated structure or feature. Light fixtures used to illuminate flags, statues, or any other objects mounted on a pole, pedestal, or platform, shall use a narrow cone of light that does not extend beyond the illuminated object.

NO UPWARD LIGHTING HAS BEEN SPECIFIED ON THIS PROJECT.

(d)Maximum Levels. Maximum on-site lighting levels shall not exceed 10 foot candles, except for loading and unloading platforms where the maximum lighting level shall be 20 foot candles.

CONFIRMED/ REF PHOTOMETRIC TABLE.

(e)Measurement at Property Boundaries. Light levels measured at the property line of the development site adjacent to residential property or public right of way shall not exceed 0.1 foot candles as a direct result of the on-site lighting. All light fixtures mounted within 15' of any residential property line of the site shall be classified as IES Type II or Type III, or fixture demonstrated to provide similar distribution patterns and shielding properties. Fixtures shall be fitted with "house side shield" reflectors on the sides facing the residential property line.

ALL LIGHT LEVELS ARE BELOW 0.1 AT PROPERTY LINES. NO LIGHT FIXTURES ARE WITHIN 15' OF ADJACENT PROPERTY LINES. "HOUSE SIDE SHIELDS" ARE SPECIFIED. TO REDUCE POTENTIAL GLARE INTO RESIDENTIAL AREAS/ REF SHEET ES-113. SECONDARY OPTION "EXTERNAL GLARE SHIELD" IS PROVIDED, SHOULD EPC REQUIRE MORE THAN SPECIFIED.

(f)Light Standards and Fixtures. The style of light standards and fixtures shall be consistent with the style and character of architecture proposed on the site. Poles shall be anodized or coated to minimize glare from the light source. Bollards or similar light fixtures intended to illuminate landscape features or walkways are permitted which do not exceed 4 feet in height, 2 fixtures per bollard and 1 lamp not exceeding 900 lumens per fixture.

LIGHT POLES ARE DESIGNED TO THE ABOVE STANDARD/ REF SHEET E-802 FOR DETAIL. THERE ARE NO LIT BOLLARDS OR ILLUMINATED LANDSCAPING SPECIFIED ON THIS PROJECT.

(g)Lamp Types. All outdoor light fixtures should utilize 1 of the following lamp types: metal halide, induction lamp, compact fluorescent, incandescent (including tungsten-halogen), or high-pressure sodium. Alternatives are permitted provided they are demonstrated to be more effective for the proposed use based on IESNA recommendations.

LED LAMPS HAVE BEEN PROVIDED. REF SHEET ES-113.

(h)Canopy Lighting. Light fixtures associated with canopies, including but not limited to fuel islands, seasonal outdoor sales areas, shopping malls, theaters, bank drive-thrus, and hotels shall be full cutoff or mounted so that the bottom of the lens is recessed or flush with the bottom surface of the canopy. All light emitted from the canopy shall be substantially confined to the ground directly beneath the perimeter of the canopy. No lighting of any kind, except as permitted by sign regulations, shall be allowed on the top or sides of a canopy. The design of the canopy in terms of height above grade, and the spacing between the fixtures within the canopy, shall be such that the illuminance level under the canopy does not exceed 20 foot-candles.

CANOPY DOWLIGHTING HAS BEEN ACCOUNTED FOR AND IS DESIGNED AS NOTED ABOVE. REF SHEET ES-112/ ES-211 FOR REFERENCE.

(i)Consideration of Pilots. No lighting shall make it difficult for pilots to distinguish airport lights from others, result in glare in the eyes of the pilots using an aviation facility, impair visibility in the vicinity of an aviation facility or, in any way create a hazard or endanger the landing, take-off, or maneuvering of aircrafts intending to use an aviation facility.

NO UPWARD LIGHTING IS SPECIFIED FOR THIS PROJECT. NO OTHER LIGHTING WILL CREATE HAZARDS FOR AIRCRAFT.

(2)Height. No freestanding light fixtures shall be mounted higher than 15 feet, except parking lot light fixtures which shall be mounted no higher than 20 feet unless an alternative lighting proposal is approved in accordance with this Code.

CONFIRMED/ REFER TO SHEET E-802 FOR PARKING LOT LIGHTING DETAILS.

(3)Requirements for Outdoor Recreation Facilities. Ball diamonds, playing fields, tennis courts, and other outdoor recreational uses shall be required to meet the following standards:

(a)Maximum Pole Height. The maximum light pole height shall be 80 feet.(b)Cut-Off Angle. The cut-off angle from a lighting source that illuminates an outdoor recreational use may exceed 90 degrees provided the light source is shielded to prevent light and glare from spilling to adjacent residential properties.

(c)Hours of Use. Exterior lighting for an outdoor recreational use shall be extinguished no later than 10:00 p.m. or immediately after the conclusion of the final event of the day, whichever is later.

NO RECREATIONAL FIELDS/ OR FIELD LIGHTING IS SPECIFIED ON THIS PROJECT.

ADDITIONAL ENGINEER COMMENTS:

(E)Alternative Lighting Proposal. (1)Authority. The PCD Director may approve a proposal that offers an alternative approach for meeting the standards of this Section. A lighting plan proposing an alternative approach for meeting these standards shall be submitted in accordance with submittal requirements for lighting plans described in the Procedures Manual. The plan shall clearly identify and discuss the modifications and alternatives proposed and describe how the proposal would better accomplish the purpose of this Section.(2)Review Criteria. The PCD Director shall find the alternative lighting proposal accomplishes the purposes of this Section as well as a lighting plan that complies with this Section. The PCD Director will consider the extent to which the proposed design protects natural areas from light intrusion; how it enhances neighborhood continuity and connectivity; how it fosters non-vehicular access; and how it demonstrates innovative design and use of fixtures or other elements.

LAMP TYPES PROVIDED ARE LED WHICH ARE MORE EFFICIENT THAN THE ABOVE NOTED TYPES.

ADDED SHEETS FOR REFERENCE...

E-211 - INFORMATION ON SHUT OFF TIME
E-801 - INFORMATION ON LUMINAIRE SCHEDULE
E-802 - LIGHT POLE DETAIL

S. SIDWHA
ZEE ENGINEERING
06/25/2026