

ISSUED
FOR BIDDING

ISSUED: 04.16.20

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FINAL DRAWING
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CONSTRUCTION

PROJECT TITLE

WEST
BRUNSWICK
HIGH SCHOOL
NEW ROTC
BUILDING

550 WHITEVILLE ROAD N.W.
SHALLOTTE, NC 28470

DSP #: 100
DPI SCHOOL #: 1167

SHEET TITLE

ROTC FLOOR PLAN -
LIGHTING

ISSUE BLOCK

Mark	Date	Description
1	05.04.20	ADDENDUM 1
	04.16.20	ISSUED FOR BIDDING
	03.20.20	100% REV. SUBMISSION
	10.14.19	NCDPI DD SUBMISSION
	07.30.19	SD PROGRESS DWGS
	07.11.19	NCDPI SD SUBMISSION

PROJECT NO: 2019082.00
DATE: 10.14.2019
SCALE: As indicated

DRAWN BY: HGH PROJ MGR: WAC

E201
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LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER/SERIES	NOM. SIZE	TEMP.(K)	LAMPS	VOLTS	DELIVERED LUMENS	WATTS	LENS	COLOR	MOUNTING HEIGHT	BALLAST/ DRIVER	REMARKS
A	2X4 LAY-IN LED TROFFER	LITHONIA: GTL SERIES COLUMBIA: LJT24 SERIES DAY-BRITE: 2TGS4L	2'x4'	3500	LED	MVOLT	5400	47	A19 ACRYLIC	WHITE	RECESSED GYPBOARD	LED DRIVER	5
B	ADJUSTABLE LINEAR LED WITH 45 DEGREE BEAM ANGLE	ECOSENSE TROV L50-148-10-90-MULT LUMENPULSE: LOGRO-48-40K-10X90-UMAS-SI-DIM CK EVENBALANCE: 823-000099-15	4'	4000	LED	MVOLT	4800	40		WHITE	WALL MOUNTED SIDE OF JOIST OPPOSITE SHOOT LINE	LED DRIVER	1, 5
C	LED UTILITY LIGHT	LITHONIA: CSS COLUMBIA: CSL4 SERIES DAY-BRITE: FSS430	2'	3500	LED	MVOLT	3000	31	ACRYLIC	WHITE	SURFACE / SUSPENDED	LED DRIVER	4
C1	LED UTILITY LIGHT	LITHONIA: ZL10L34 COLUMBIA: CSL2 SERIES DAY-BRITE: FSS430	2'	3500	LED	MVOLT	1500	17	ACRYLIC	WHITE	SURFACE / SUSPENDED	LED DRIVER	
D	EXTERIOR LED AREA LIGHT TYPE 3 DISTRIBUTION	LITHONIA: WSR-LED HUBBELL: RD12-24L SERIES RAYON: T650-LED	18"Wx7"Hx9"D	4000	LED	MVOLT	3433	44		DARK BRONZE	WALL MOUNTED B.O.F. 8'-6" AFF	LED DRIVER	3, 5, 8, 9
E1	2-HEAD EMERGENCY LIGHT	EELP: EM2LF SERIES CHLORIDE: CLUNW EMERGH-LITE: EL-2RHL SERIES	12"Wx5.5"Hx6"D		LED	MVOLT		12		WHITE	WALL MOUNTED 7'-6" AFF		8
X1	EXIT SIGN, SINGLE FACE	LITHONIA: EXR LED EL M6 CHLORIDE: VERVEM EMERGH-LITE: ELXN400RN	12"Wx8"Hx2"D		LED	MVOLT		2	RED	WHITE	SURFACE CEILING / 7'-6" AFF WHEN WALL MOUNTED		8
X2	COMBINATION EXIT SIGN 2-HEAD LED LIGHTS	LITHONIA: EXR LED EL M6 CHLORIDE: VLLCR2R EMERGH-LITE: ELXN400R-2LED	12"Wx8"Hx2"D		LED	MVOLT		30	RED	WHITE	SURFACE CEILING / 7'-6" AFF WHEN WALL MOUNTED		8

REMARKS:

1. 0-10V DIMMING
2. DAMP LOCATION
3. WET LOCATION

4. 50% DIMMING
5. LED REQUIRED SURGE PROTECTION
6. VERIFY FINAL MOUNTING HEIGHT WITH ARCHITECT

7. FINAL COLOR SELECTION BY ARCHITECT
8. 90 MIN BATTERY BACK-UP
9. INTEGRAL PHOTOCELL

GENERAL NOTES:

- A. THE CONTRACTOR SHALL VERIFY THE LEAD TIME OF ALL PRODUCTS SPECIFIED IN THIS SCHEDULE AT THE TIME OF PACKAGE QUOTE.
B. DURING THE BID PROCESS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DELIVERY/SCHEDULING ISSUES.
C. NO SUBSTITUTIONS WILL BE ALLOWED DUE TO THE LACK OF COORDINATION OF DELIVERY DATES AND CONSTRUCTION SCHEDULE AFTER BID.
D. ALL EXPEDITED EXPENSES SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS.
E. FIXTURES TO BE INSTALLED IN CEILINGS, INDICATE ON THE ARCHITECTURAL PLANS AS HAVING INSULATION IN CONTACT WITH THE CEILING SURFACE, SHALL BE IC RATED BY MANUFACTURER.
F. LIGHTING FIXTURES SHALL MEET THE AESTHETICS, DESCRIPTION AND SPECIFICATIONS, SUBSTITUTIONS SHALL INCLUDE PT. BY PT. CALCULATIONS.
G. LIGHTING FIXTURES, AS SPECIFIED, HAVE BEEN SO SELECTED TO ACHIEVE REQUIRED/DESIRED FOOTCANDLE LEVELS IN THEIR RESPECTIVE AREA. HENCE SPECIFIC FIXTURE CHARACTERISTICS WHICH MAY CREATE PARTICULAR ILLUMINATION RESULTS ARE ESSENTIAL. ANY DEVIATIONS FROM SPECIFIED FIXTURES SHALL DEEM THE SUBMITTING AGENT AND CONTRACTORS RESPONSIBLE IN PROVIDING SUCH DEVIATION FOR THE ARCHITECT/ENGINEER AND OWNER TO MAKE AN INFORMED DECISION.
H. SUBSTITUTIONS APPROVED BY THE ENGINEER PREVIOUS TO BID ARE ACCEPTABLE AS LONG AS THEY ARE EQUAL TO THE FIXTURE SPECIFIED, UNLESS OTHERWISE NOTED. THIS INCLUDES LENS, COLORS, REFLECTORS, PHOTOMETRICS, HOUSING MATERIAL, FINISHES, ETC. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER WITH CUT SHEETS FOR APPROVAL. LISTED SEPARATELY SO THE ARCHITECT, ENGINEER AND OWNER CAN MAKE AN INFORMED DECISION. SUBSTITUTE FIXTURES SHALL BE PRICED WITH THE SPECIFIED FIXTURE AND ALL 4' LED LAMPS SHALL BE 3500 K. OTHER LAMPS SHALL BE AS SCHEDULED.
J. ANY FIXTURE WITH THE TEXT "NL" ADJACENT TO IT SHALL INDICATE THAT THAT FIXTURE IS A NIGHT LIGHT (24HR LIGHT). THE FIXTURE SHALL BE CONNECTED TO THE UNSWITCHED HOT LEG OF THE INDICATED CIRCUIT.
K. ACRYLIC PRISMATIC LENSES SHALL BE 0.156" NOMINAL MINIMUM THICKNESS.
L. ALL EXIT AND EMERGENCY FIXTURES SHALL COMPLY WITH NCSBC STANDARDS AND HAVE AUTOMATIC TESTING DEVICES.
M. LED EMERGENCY BATTERY SHALL PROVIDE 1400 MINIMUM LUMENS OUTPUT FROM 1 LAMP FOR 90 MINUTES MINIMUM.
N. LED MODULES SHALL BE REPLACEABLE.
O. PROVIDE MANUFACTURER INSTALLED NEC 2014 ARTICLE 410.130 (G) COMPLIANT DISCONNECTING MEANS FOR ALL APPLICABLE FIXTURES.
P. SEE SPECIFICATIONS SECTIONS 285100 AND 285200 FOR ADDITIONAL REQUIREMENTS.
Q. ELECTRICAL CONTRACTOR SHALL RECEIVE APPROVAL FOR ALL LIGHTING FIXTURES FROM ARCHITECT/OWNER PRIOR TO PURCHASE AND ROUGH-IN.

RANGE WARNING LIGHT SYSTEM

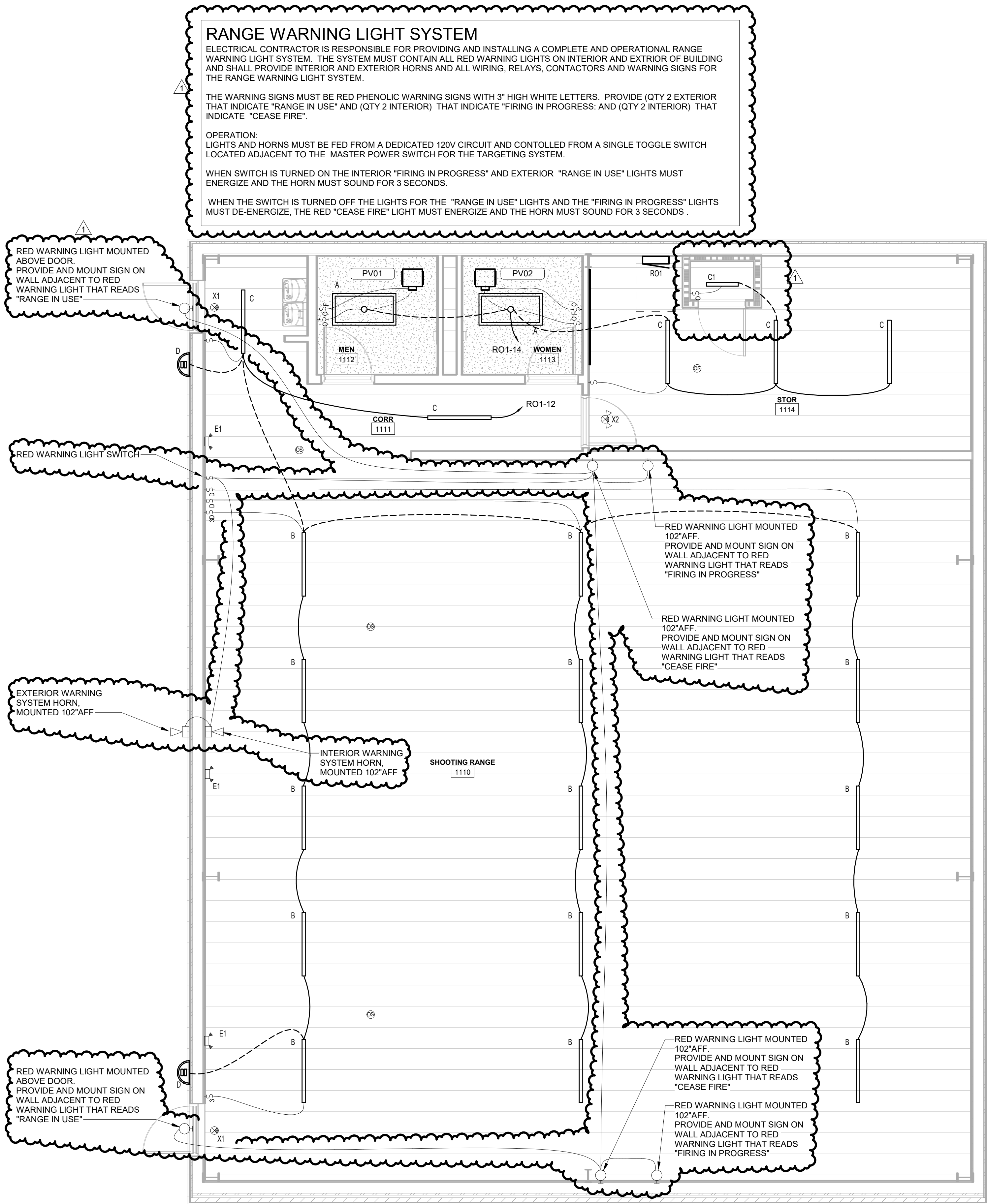
ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING A COMPLETE AND OPERATIONAL RANGE WARNING LIGHT SYSTEM. THE SYSTEM MUST CONTAIN ALL RED WARNING LIGHTS ON INTERIOR AND EXTERIOR OF BUILDING AND SHALL PROVIDE INTERIOR AND EXTERIOR HORNS AND ALL WIRING, RELAYS, CONTACTORS AND WARNING SIGNS FOR THE RANGE WARNING LIGHT SYSTEM.

THE WARNING SIGNS MUST BE RED PHENOLIC WARNING SIGNS WITH 3" HIGH WHITE LETTERS. PROVIDE (QTY 2 EXTERIOR THAT INDICATE "RANGE IN USE" AND (QTY 2 INTERIOR) THAT INDICATE "FIRING IN PROGRESS" AND (QTY 2 INTERIOR) THAT INDICATE "CEASE FIRE".

OPERATION:
LIGHTS AND HORNS MUST BE FED FROM A DEDICATED 120V CIRCUIT AND CONTROLLED FROM A SINGLE TOGGLE SWITCH LOCATED ADJACENT TO THE MASTER POWER SWITCH FOR THE TARGETING SYSTEM.

WHEN SWITCH IS TURNED ON THE INTERIOR "FIRING IN PROGRESS" AND EXTERIOR "RANGE IN USE" LIGHTS MUST ENERGIZE AND THE HORN MUST SOUND FOR 3 SECONDS.

WHEN THE SWITCH IS TURNED OFF THE LIGHTS FOR THE "RANGE IN USE" LIGHTS AND THE "FIRING IN PROGRESS" LIGHTS MUST DE-ENERGIZE. THE RED "CEASE FIRE" LIGHT MUST ENERGIZE AND THE HORN MUST SOUND FOR 3 SECONDS.



1 ROTC FLOOR PLAN - LIGHTING

SCALE: 1/4" = 1'-0"

4' 2' 0' 4'
SCALE: 1/4" = 1'-0"

