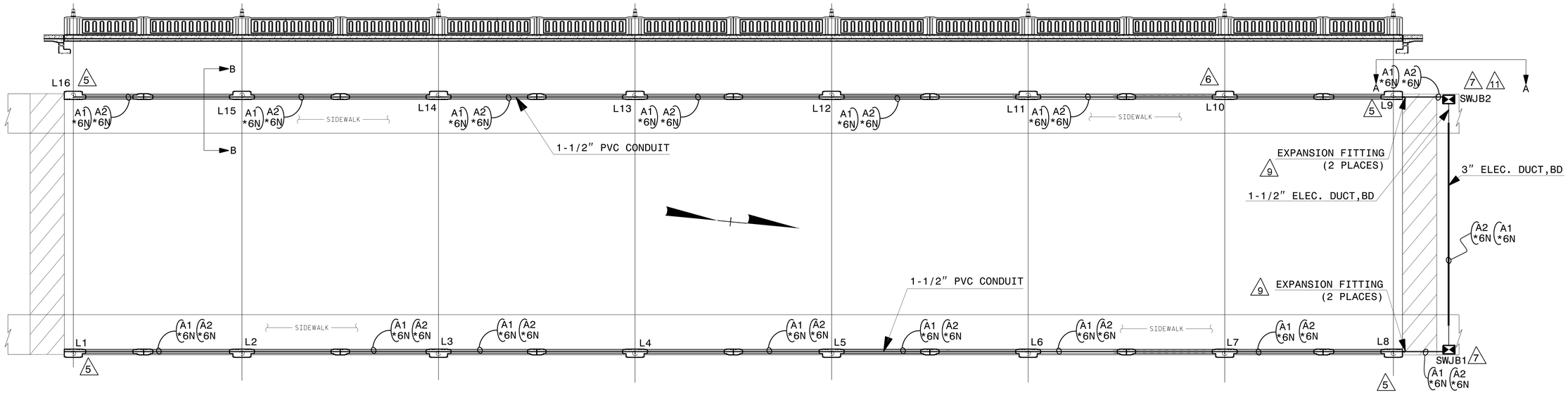
PROJECT REFERENCE NO.	SHEET NO.
B-5103	ECS-1

USE FOR LIGHTING CONSTRUCTION ONLY

NTS



CONDUIT SYSTEM LAYOUT

LOAD SCHEDULE CONTROL SYSTEM "A" THIRD STREET BRIDGE 120/240V, SINGLE PHASE, 3 WIRE							
CKT	PHASE	POST TOP LED	AC OUTLET RECEPTACLE	AMPS @120 VOLTS		KW	
				AN	BN	AN	BN
A1	AN (BK-WH)	L1,L3,L5,L7 L9,L11,L13,L15		8.96		1.08	
	BN (RD-WH)	L2,L4,L6,L8 L10,L12,L14,L16			8.96		1.08
A2	AN (BE-WH)		L1,L3,L5,L7 L9,L11,L13,L15	N/A		N/A	
	BN (OE-WH)		L2,L4,L6,L8 L10,L12,L14,L16		N/A		N/A

ABBREVIATIONS

BK - BLACK
RD - RED
BE - BLUE
OE - ORANGE
WH - WHITE

DRAWN BY : A. BROWN DATE : 11/21/14
CHECKED BY : P. CHAN DATE : 11/21/14

△ NOTES

1. COORDINATE POWER SERVICE WITH THE CITY OF WILMINGTON.
2. COORDINATE CONNECTION OF CONDUIT WITH THE CITY OF WILMINGTON.
3. SEE STRUCTURE PLANS FOR LOCATION OF LIGHT POLE.
4. CONTACT THE CITY OF WILMINGTON FOR ANCHOR BOLT PATTERN FOR DECORATIVE POLE.
5. INSTALL DECORATIVE POLE WITH 4 LIGHT FIXTURES AT EACH END OF BRIDGE BARRIER RAIL. (4 PLACES)
6. INSTALL DECORATIVE POLE WITH 1 LIGHT FIXTURES ON BRIDGE BARRIER RAIL. (12 PLACES)
7. TYPE PC18 JUNCTION BOXES ARE 18" L X 12" W X 18" H. FIELD CUT SIDEWALL OF SWJB TO ALLOW SIDE ENTRY OF 1-1/2" CONDUIT FROM SIDEWALK.
8. LIGHT PEDESTAL JUNCTION BOXES ARE TYPE BR - 12" L X 12" W X 4" H. INSTALL IN BARRIER RAIL.
9. PROVIDE EXPANSION FITTINGS WHERE APPROACH SLAB MEETS INTEGRAL END BENT.
10. OBTAIN DECORATIVE POLE AND FIXTURES FROM CITY OF WILMINGTON.
11. COIL 5 FT OF CONDUCTORS FOR FUTURE CONNECTION BY CITY PERSONNEL INSIDE JUNCTION BOX.
12. INSTALL THWN CONDUCTORS, SIZED AS SHOWN, FROM LIGHT PEDESTAL JUNCTION BOX TO TOP OF PEDESTAL LEAVING 3-FT OF CONDUCTORS COILED FOR FUTURE CONNECTION TO ORNAMENTAL LIGHT STANDARD. SEE LIGHTING SPECIAL PROVISIONS.

LEGEND

A1 *6N — PROPOSED FEEDER CIRCUIT CONTROL SYSTEM(A), CIRCUIT(1) PLAN SYMBOL (*6N) SEE TABLE BELOW;

PLAN SYMBOL	DESCRIPTION	
*6N	2 #6 Ø 1 #6N 1 #8G	2 AWG SIZE 6 CONDUCTOR 1 AWG SIZE 6 CONDUCTOR 1 AWG SIZE 8 GROUNDING CONDUCTOR
*12N	1 #12 Ø 1 #12N 1 #12G	1 AWG SIZE 12 CONDUCTOR 1 AWG SIZE 12 CONDUCTOR 1 AWG SIZE 12 GROUNDING CONDUCTOR

NOTE: USE 1 GROUND CONDUCTOR FOR BOTH CIRCUIT RUNS. USE THWN CONDUCTOR IN CONDUIT IN BARRIER RAIL BETWEEN LIGHT PEDESTAL JUNCTION BOXES AND SIDEWALK JUNCTION BOXES AND FROM LIGHT PEDESTAL JUNCTION BOX TO TOP OF PEDESTAL.

PROJECT NO. B-5103
NEW HANOVER COUNTY
STATION: STA. 16+84.96 -L-

NORTH CAROLINA PROFESSIONAL SEAL 022582 ENGINEER PAUL KI-BUN CHAN
DocuSigned by: Paul Chan 4/15/2015

SEE PROJECT SPECIAL PROVISIONS TITLED "ELECTRICAL CONDUIT SYSTEM" FOR MATERIALS, COSTRUCTION METHOD AND PAYMENT.

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
ROADWAY DESIGN LIGHTING & ELECTRICAL

ELECTRICAL CONDUIT SYSTEM
3RD STREET BRIDGE
OVER ABANDON RAILROAD
IN WILMINGTON

REVISIONS							
NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.	ECS-1
1			3			TOTAL SHEETS	2
2			4				