

NEW ELECTRICAL DISTRIBUTION SINGLE LINE

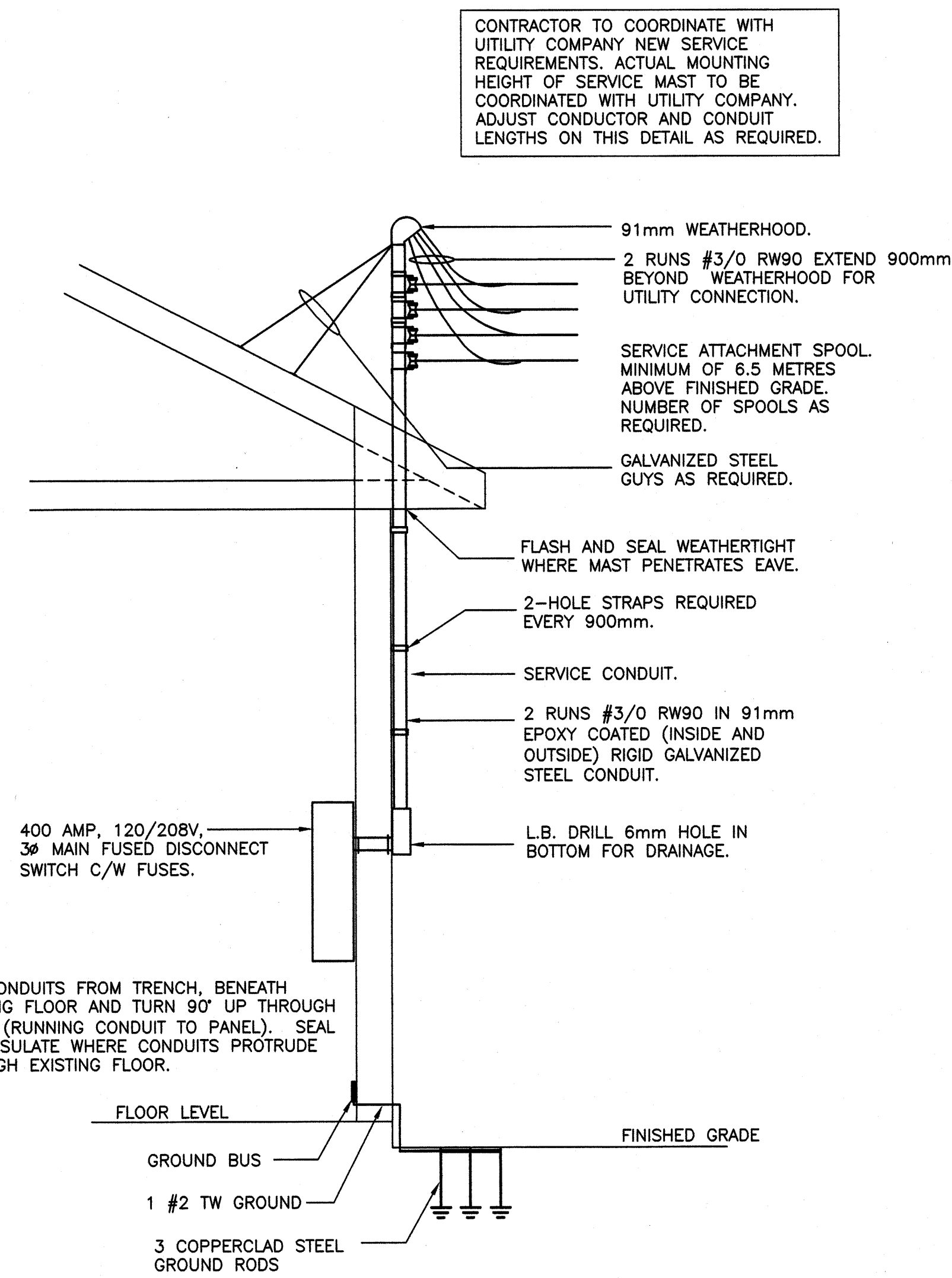
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WIRE AND CONDUIT INFORMATION	
NO.	DESCRIPTION
①	2 RUNS (4 #3/0 RW90 + 1 #2 TW GRD IN 53mm EMT CONDUIT)
②	2 RUNS (4 #3/0 RW90 IN 91mm EPOXY COATED RIGID GALVANIZED STEEL CONDUIT)
③	4 #3/0 RW90 + 1 #4 TW GRD IN 53mm EMT CONDUIT
④	2 #3 RW90 + 1 #6 TW GRD IN 35mm EMT CONDUIT
⑤	3 #4 RW90 + 1 #8 TW GRD IN 35mm EMT CONDUIT

VOLTS <u>120/208</u>		PANEL NAME <u>"A"</u>		MAINS RATED <u>400</u> AMPS											
PHASE <u>3</u>		LOCATION <u>ELECTRICAL SHED</u>		MOUNTING <u>SURFACE</u>											
WIRE <u>4</u>		FED FROM <u>UTILITY</u>		ENTER AT _____ CIRCUITS <u>60</u>											
DESIGNATION	WATTAGE			WIRE	BKR	CCT	A	B	C	CCT	BKR	WATTAGE			DESIGNATION
	ø A	ø B	ø C									ø A	ø B	ø C	
TRANSFORMER T1	4200	4200		3	80	1	•	•	•	2	200	3/0			EXISTING PANEL "B"
SPARE					2	3	•	•	•	4	3				
EXT. LTG CONTROL PANEL	100			12	15	7	•	•	•	8	15	6	1260		ELECTRICAL PEDESTAL #2 (RECEPT. #1)
SPARE					15	9	•	•	•	10	30	4	2520		ELECTRICAL PEDESTAL #2 (RECEPT. #2)
SPARE					15	11	•	•	•	12	30	4		2520	ELECTRICAL PEDESTAL #2 (RECEPT. #3)
ELECTRICAL PEDESTAL #1 (RECEPT. #1)		1260		8	15	15	•	•	•	14	30	6	2184		ELECTRICAL PEDESTAL #2 (RECEPT. #4)
ELECTRICAL PEDESTAL #1 (RECEPT. #2)			2520	6	30	17	•	•	•	16	2		2184		
ELECTRICAL PEDESTAL #1 (RECEPT. #3)	2520			6	30	19	•	•	•	18					
ELECTRICAL PEDESTAL #1 (RECEPT. #4)		2184		8	30	21	•	•	•	20					
					2	23	•	•	•	22	15	6	1260		ELECTRICAL PEDESTAL #3 (RECEPT. #1)
					25	25	•	•	•	24	30	3		2520	ELECTRICAL PEDESTAL #3 (RECEPT. #2)
					27	27	•	•	•	26	30	3	2520		ELECTRICAL PEDESTAL #3 (RECEPT. #3)
ELECTRICAL PEDESTAL #4 (RECEPT. #1)		1260		4	15	29	•	•	•	28	30	6	2184		ELECTRICAL PEDESTAL #3 (RECEPT. #4)
ELECTRICAL PEDESTAL #4 (RECEPT. #2)	2520			2	30	31	•	•	•	30	2		2184		
ELECTRICAL PEDESTAL #4 (RECEPT. #3)		2520		2	30	33	•	•	•	32					
ELECTRICAL PEDESTAL #4 (RECEPT. #4)			2184	4	30	35	•	•	•	34					
					2	37	•	•	•	36					
					39	39	•	•	•	38					
					41	41	•	•	•	40					
LIGHT POLE #1	300			8	15	43	•	•	•	42					
LIGHT POLE #2		300		8	15	45	•	•	•	44					
LIGHT POLE #3			300	12	15	47	•	•	•	46	15				SPARE
SPARE					30	49	•	•	•	48	15				SPARE
SPARE					30	51	•	•	•	50	15				SPARE
SPARE					30	53	•	•	•	52	15				SPARE
SPARE					30	55	•	•	•	54	30				SPARE
SPARE					30	57	•	•	•	56	2				
SPARE					30	59	•	•	•	58	20				
					30	59	•	•	•	60	2				SPARE
ø A TOTAL : 17788															
ø B TOTAL : 18612															
ø C TOTAL : 15672															
ADDITIONAL LOAD <u>52.1 KW</u> <u>144.8 AMP</u>															
PANEL TO BE C/W 400 AMP, 3 POLE MAIN BREAKER															

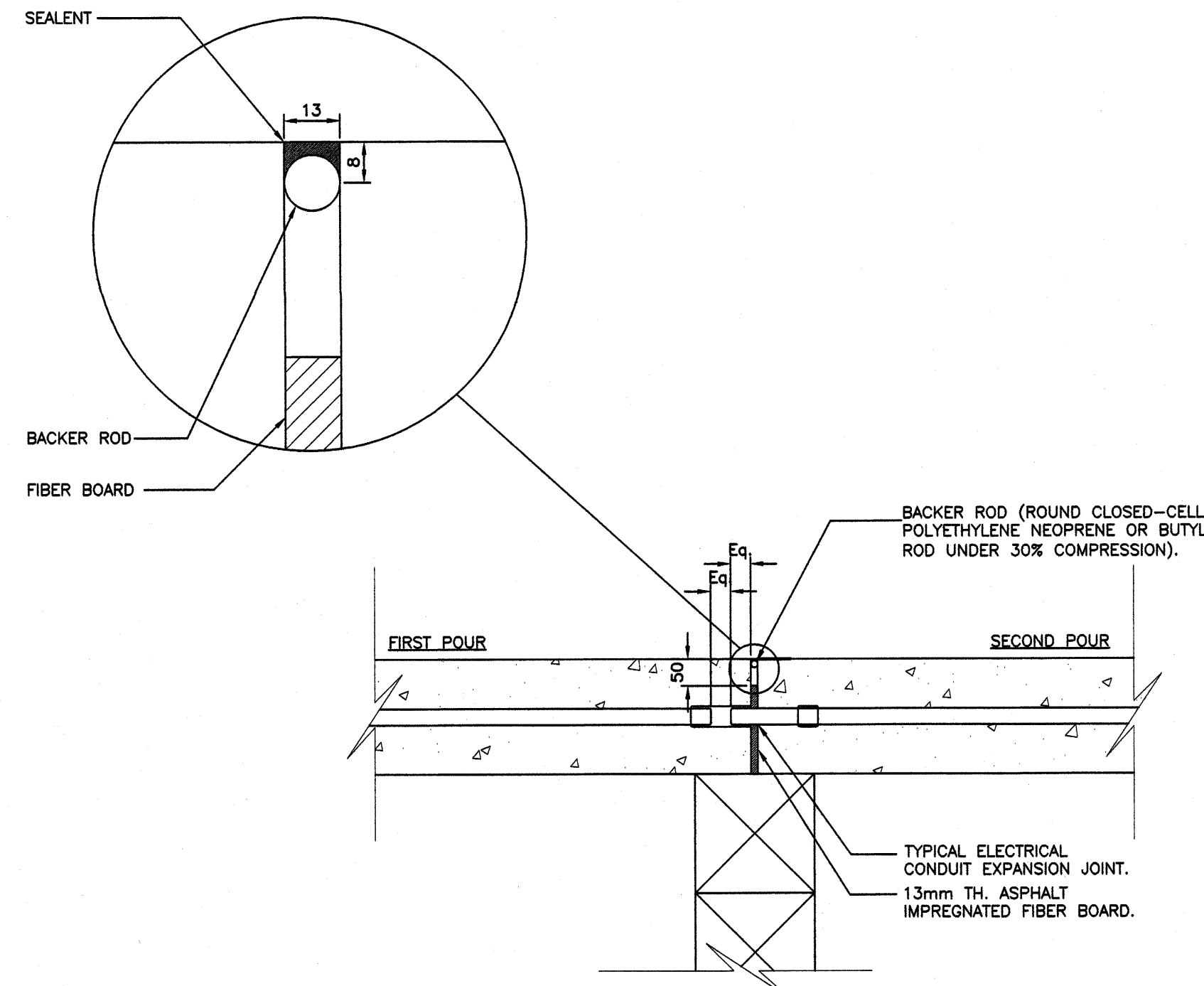
VOLTS <u>120/240</u>		PANEL NAME <u>"C"</u>		MAINS RATED <u>100</u> AMPS								
PHASE <u>1</u>		LOCATION <u>ELECTRICAL SHED</u>		MOUNTING <u>SURFACE</u>								
WIRE <u>3</u>		FED FROM <u>PANEL "A"</u>		ENTER AT _____		CIRCUITS <u>16</u>						
DESIGNATION		WATTAGE ø A ø B		WIRE	BKR	CCT	A B	CCT	BKR	WIRE	WATTAGE ø A ø B	DESIGNATION
ELECTRICAL PEDESTAL #1 (RECEPT. #5)		4200	4200	6	50	1	● ●	2	15			SPARE
					2	3	● ●	4	15			SPARE
SPARE					50	5	● ●	6	15			SPARE
					2	7	● ●	8	15			SPARE
						9	● ●		10			
						11	● ●		12			
						13	● ●		14			
						15	● ●		16			
ø A TOTAL :		4200										
ø B TOTAL :		4200										
TOTAL LOAD		8400		KW		35		AMP				



ELECTRICAL SERVICE ELEVATION DETAIL

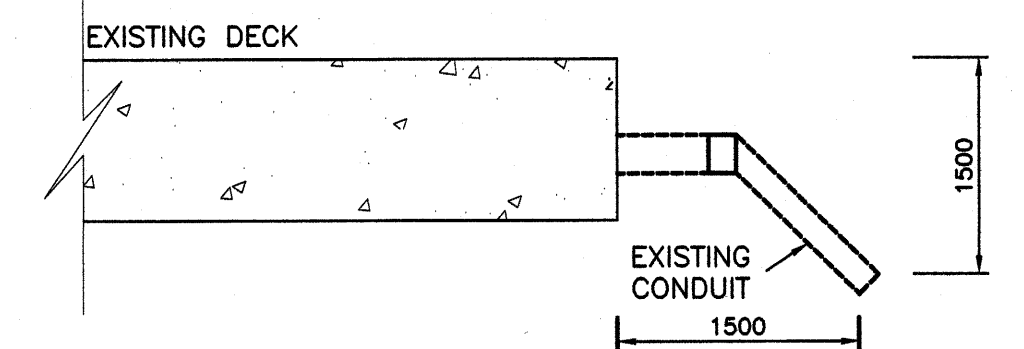
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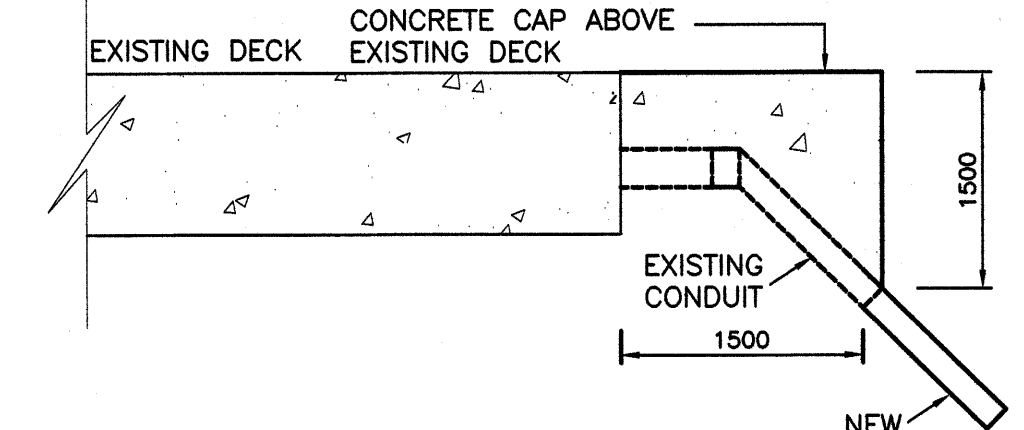
TYPICAL EXPANSION JOINT

N.T.S.



EXISTING CONDUIT IN DECK

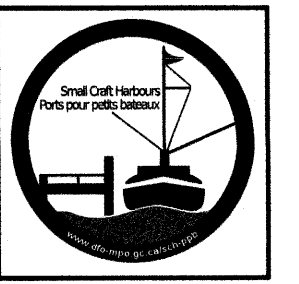
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NEW CONDUIT CONNECTION

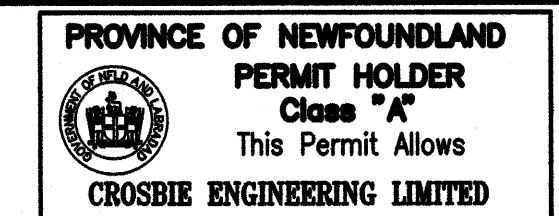
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SMALL CRAFT HARBOURS

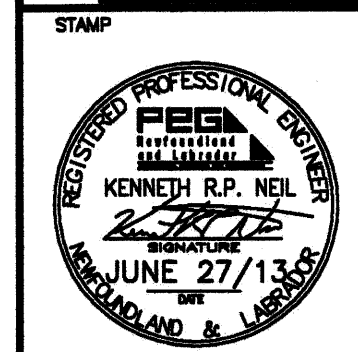


GENERAL NOTES

- DO NOT SCALE FROM THIS DRAWING.
- CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE BEFORE PROCEEDING WITH THIS WORK.
- OWNER HAS FIRST RIGHT OF AL REMOVED MATERIAL. IF OWNER REFUSES MATERIALS CONTRACTOR TO REMOVE OFF SITE.



To practice Professional Engineering in Newfoundland and Labrador Permit No. as issued by PEG-NL 00123 which is valid for the year 2010.



D	ISSUED FOR TENDER	27/06/13
C	ISSUED FOR REVIEW	11/06/13
B	ISSUED FOR REVIEW	13/05/13
A	ISSUED FOR REVIEW	03/05/13

revisions	date
project	project

ELECTRICAL UPGRADES
BLACK DUCK COVE - NL

drawing design

ELECTRICAL DETAILS

designed D.H. concu

date APRIL 2013

drawn D.R. design

date APRIL 2013

approved approve

Tender Soumission

DFD Project Manager no. du projet

project number 705619

drawing no. no. du dessin

E5