KEYED NOTES

- EXISTING UTILITY TRANSFORMER. COORDINATE EXACT LOCATION WITH FP&L. EXISTING SERVICE 'A' AND 'B' ARE TO BE MODIFIED. SEE PROPOSED SITE PLANS FOR NEW SERVICES AND
- EXISTING UTILITY TRANSFORMER. COORDINATE EXACT LOCATION WITH FP&L. EXISTING SERVICE 'C' IS TO BE MODIFIED. SEE PROPOSED SITE PLAN FOR NEW SERVICES AND MODIFICATIONS TO EXISTING SERVICES.
- $\langle 3 \rangle$ EXISTING PEDESTAL WITH LIGHT ONLY.
- EXISTING UTILITY TRANSFORMER TO PROVIDE SERVICE 'A1' AND 'B1' SERVING SLIPS 10 THROUGH 24. DISCONNECTS USED FOR EXISTING SERVICES 'A' AND 'B' ARE TO BE REUSED. SEE SINGLE LINE FOR CONDUIT AND CONDUCTOR SIZES.

 CONTRACTOR SHALL PROVIDE AND INSTALL ALL LABOR AND COMPONENTS REQUIRED FOR A COMPLETE WORKING SYSTEM.
- EXISTING SERVICES 'C' ARE TO BE REUSED. SEE SINGLE LINE FOR CONDUIT AND CONDUCTOR SIZES. CONTRACTOR SHALL PROVIDE AND INSTALL ALL LABOR AND COMPONENTS REQUIRED FOR A COMPLETE WORKING SYSTEM.
- NEMA 3R DISCONNECT AS INDICATED ON SINGLE LINE DIAGRAM. SEE SINGLE LINE FOR CONDUIT AND CONDUCTOR SIZES. CONTRACTOR SHALL PROVIDE AND INSTALL ALL LABOR AND COMPONENTS REQUIRED FOR A COMPLETE WORKING
- 'B2' SERVING SLIPS 33 THROUGH 43. CONTRACTOR TO PROVIDE (2) NEW NEMA 3R DISCONNECTS AS INDICATED ON SINGLE LINE DIAGRAM. SEE SINGLE LINE FOR CONDUIT AND CONDUCTOR SIZES. CONTRACTOR SHALL PROVIDE AND INSTALL ALL LABOR AND COMPONENTS REQUIRED FOR A COMPLETE WORKING SYSTEM.

GENERAL NOTES

GENERAL NOTES APPLY TO ALL ELECTRICAL SHEETS

- DRAWINGS ARE BASED ON FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO THE ARCHITECT, ENGINEER BEFORE DISTURBING EXISTING
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- WIRE SIZE SHALL BE INCREASED IN SIZE FOR VOLTAGE DROP, E.G SHALL BE INCREASED PROPORTIONATELY. PER NEC 250.122 (B).

MODIFICATIONS TO EXISTING SERVICES.

5 EXISTING UTILITY TRANSFORMER TO PROVIDE SERVICE 'C1' SERVING SLIPS 44 THROUGH 50. DISCONNECT USED FOR

- 6 EXISTING UTILITY TRANSFORMER TO PROVIDE SERVICE 'A2' SERVING SLIPS 1 THROUGH 9. CONTRACTOR TO PROVIDE NEW
- EXISTING UTILITY TRANSFORMER TO PROVIDE SERVICE 'C2' AND

- EXISTING TO REMAIN ELECTRICAL CIRCUITRY DOWNSTREAM AND UPSTREAM OF DEMOLISHED DEVICES SHALL BE MAINTAINED. PROVIDE ALL ELECTRICAL COMPONENTS (BOXES, CONDUIT, WIRING, ETC...) AS REQUIRED.
- ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO CUT, CAPTURE AND EXTEND OR REROUTE EXISTING CONDUITS AND CONDUCTORS AS REQUIRED.
- 4. DO NOT SCALE FROM THESE DRAWINGS.

- WHERE NON-FUSED DISCONNECT IS NOT PROVIDED "WITHIN SIGHT" OF MOTOR, FEEDER (AND/OR BRANCH CIRCUIT)
 OVER-CURRENT DEVICE SERVING SUCH MOTOR SHALL HAVE APPROVED "LOCKED-OFF" PROVISION.

S E A LDATEREV.#

TO THE BEST OF MY KNOWLEDGE, SAID PLANS AND SPECIFICATIONS COMPLY WITH ALL APPLICABLE BUILDING CODES.

PHILIP J. FEIKEMA P.E. 65083

FESTATES

HARBOUR

JOB NO. : 07-2046

DATE: 6-22-01 DRAWN BY : JMM CHECKED BY : PF

SHEET No. :

ELECTRICAL — SITE PLAN

Slip #	# OF 20A RECEPTACLES	# OF 30A RECEPTACLES	# OF 50A RECEPTACLES	BREAKERS	LIFT MOTORS	METER
1	0	1	0	30/1	N/A	No
2	0	1	0	20/1	(2) 3/4HP	YES
3	0	1	0	N/A	N/A	No
4	0	1	0	30/1	N/A	No
5	0	1	0	30/1	N/A	No
6	1	1	0	20/2 AND 30/1	(2) 1HP	YES
7	0	1	0	N/A	N/A	No
8	1	1	0	20/2 AND 30/1	(2) 1HP	YES
9	0	1	0	30/1	N/A	YES
NOTE: ALL	BREAKERS AND PEDESTALS IN TABLE AF	RE EXISTING OR TO BE PROVIDED BY OWNE	R. ADDITIONAL 30A RECEPTACLES ARE INCLU			123

KEYED NOTES

EXISTING CIRCUIT TO BE REMOVED. MAINTAIN EXISTING CONDUIT FOR NEW CONDUCTORS. SEE PROPOSED SERVICE SINGLE LINE DIAGRAMS.

ENGINEERS
1208 C.O.A. #40

FESTATES

LANDING

HARBOUR YACHT B.

TO THE BEST OF MY KNOWLEDGE, SAID PLANS AND SPECIFICATIONS COMPLY WITH ALL APPLICABLE BUILDING CODES

> PHILIP J. FEIKEMA P.E. 65083

> > S E A L

REV. #

JOB NO.: 07-2046

DATE: 6-22-07

DRAWN BY : JMM

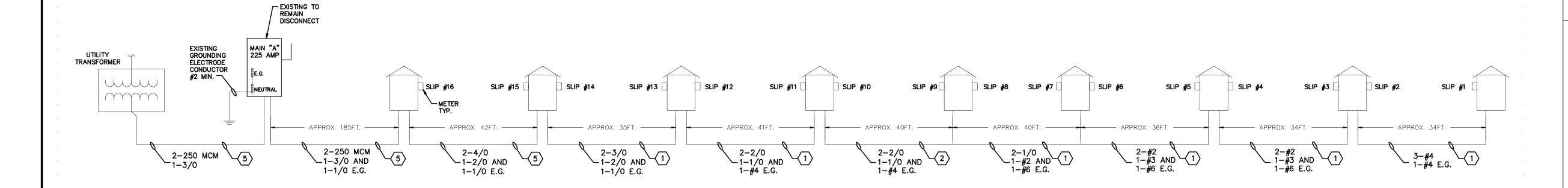
CHECKED BY : PF

SHEET No. :

DATE

- REMOVE CONDUCTORS BETWEEN SLIP 9 AND SLIP 10. CONDUIT TO REMAIN. SEAL OFF BOTH ENDS OF CONDUIT BY APPROVED METHODS.
- CONTRACTOR TO PROVIDE AND INSTALL (2) 4/0 THWN/THNN CU AND (1) 2/0 THWN/THNN CU AND (1) #4 E.G. IN EXISTING CONDUIT BETWEEN SLIPS. CONTRACTOR TO VERIFY THAT CONDUIT IS AT LEAST 2" IN DIAMETER TO COMPLY WITH NEC FILL REQUIREMENTS. REPORT ANY DISCREPENCIES TO ENGINEER. CONTRACTOR MAY REUSE REMOVED COPPER IF CONDUCTORS ARE NOT DAMAGED AND ARE OF SPECIFIED SIZE. CONTRACTOR SHALL INCLUDE THE REUSE OF EXISTING ADEQUATELY SIZED CONDUCTORS IN BID.
- CONTRACTOR TO PROVIDE AND INSTALL (1) 2-1/2" CONDUIT WITH (2) 250MCM THWN/THNN CU AND (1) 3/0 THWN/THNN CU AND (1) #2 E.G. CU BETWEEN NEW DISCONNECT AND PEDESTAL AT SLIP #1 BENEATH PROPERTY LINE BETWEEN LOT #2 AND LOT #3.
- $\overline{\left\langle 5\right\rangle }$ existing circuit and conductors to remain.
- 6 CONTRACTOR TO PROVIDE AND INSTALL (1) 2-1/2" CONDUIT WITH (2) 250MCM THWN/THNN CU AND (1) 3/0 THWN/THNN CU BETWEEN UTILITY TRANSFORMER AND NEW DISCONNECT. COORDINATE EXACT LOCATION OF TRANSFORMER AND INSTALLATION OF NEW CONDUCTORS WITH UTILITY COMPANY.
- PROVIDE AND INSTALL NEW 42KAIC, NEMA 3R, 400A
 DISCONNECT WITH INTEGRAL 225A FUSE ON 6X6 CONCRETE
 POST DRIVEN INTO GROUND NEAR UTILITY TRANSFORMER.
 COORDINATE EXACT DISCONNECT AND POST LOCATION WITH
 AUTHORITY HAVING JURISDICTION. ESTABLISH GROUND AND
 NEUTRAL BOND AT DISCONNECT. PROVIDE AND INSTALL
 GROUNDING SYSTEM AS INDICATED ON SINGLE LINE.

EXISTING SERVICE 'A'



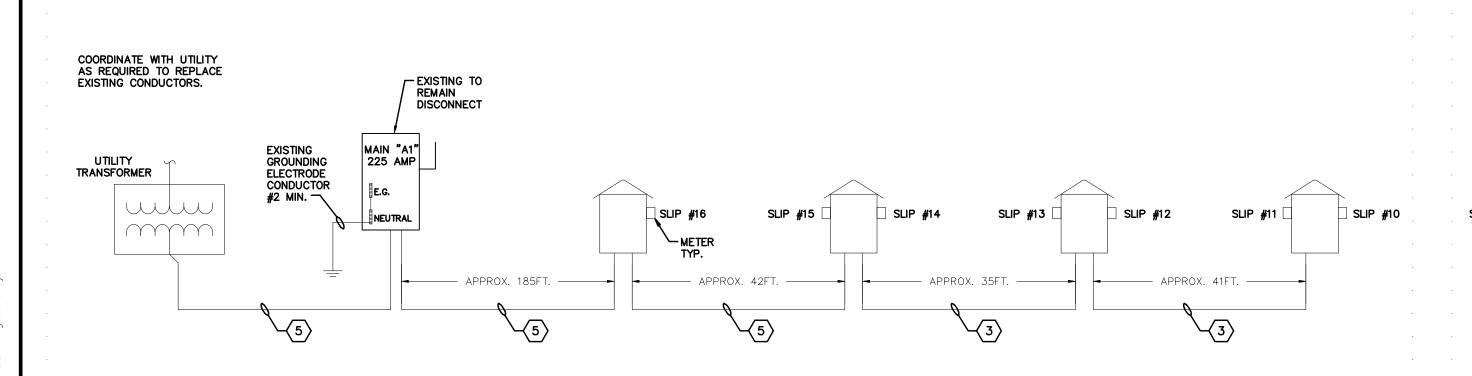
GENERAL NOTES

- **GENERAL NOTES APPLY TO ALL ELECTRICAL SHEETS**

 DRAWINGS ARE BASED ON FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO THE ARCHITECT/ ENGINEER BEFORE DISTURBING EXISTING INSTALLATION.
- EXISTING TO REMAIN ELECTRICAL CIRCUITRY DOWNSTREAM AND UPSTREAM OF DEMOLISHED DEVICES SHALL BE MAINTAINED. PROVIDE ALL ELECTRICAL COMPONENTS (BOXES, CONDUIT, WIRING, ETC...) AS REQUIRED.
- . ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO CUT, CAPTURE AND EXTEND OR REROUTE EXISTING CONDUITS AND CONDUCTORS AS REQUIRED.
- 4. DO NOT SCALE FROM THESE DRAWINGS.
- 4. DO NOT SCALE FROM THESE DRAWINGS
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
 WIRE SIZE SHALL BE INCREASED IN SIZE FOR VOLTAGE DROP, E.G SHALL BE INCREASED PROPORTIONATELY. PER NEC 250.122 (B).
- . WHERE NON-FUSED DISCONNECT IS NOT PROVIDED "WITHIN SIGHT" OF MOTOR, FEEDER (AND/OR BRANCH CIRCUIT) OVER-CURRENT DEVICE SERVING SUCH MOTOR SHALL HAVE APPROVED "LOCKED-OFF" PROVISION.
- CUTTING AND PATCHING MAY BE REQUIRED TO COMPLETE WORK. ALL CUTTING AND PATCHING SHALL BE DONE BY APPROVED METHODS. PATCHING TO BE COMPLETED TO OWNER'S STANDARDS. COORDINATE WITH OWNER.

PROPOSED SERVICE 'A1'

PROPOSED SERVICE 'A2'



SLIP #6 SLIP #5 SLIP #6 SLIP #5 SLIP #4 SLIP #3 SLIP #2 SLIP #1 COOPER CLAD GROUND ROD.

SLIP #6 SLIP #5 SLIP #6 SLIP #5 SLIP #4 SLIP #3 SLIP #2 SLIP #1 COOPER CLAD GROUND ROD.

APPROX. 34FT. APPROX

Feb 23, 2007 - 3:10pm

ELECTRICAL— SERVICE A1 & A2 SINGLE LINE SCALE: N.T.S.

DRAWINGS ARE BASED ON FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO THE ARCHITECT/ ENGINEER BEFORE DISTURBING EXISTING INSTALLATION.

EXISTING TO REMAIN ELECTRICAL CIRCUITRY DOWNSTREAM AND UPSTREAM OF DEMOLISHED DEVICES SHALL BE MAINTAINED. PROVIDE ALL ELECTRICAL COMPONENTS (BOXES,

CONDUIT, WIRING, ETC...) AS REQUIRED. ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO CUT,

CAPTURE AND EXTEND OR REROUTE EXISTING CONDUITS AND CONDUCTORS AS REQUIRED.

4. DO NOT SCALE FROM THESE DRAWINGS.

5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE

NATIONAL ELECTRICAL CODE. 6. WIRE SIZE SHALL BE INCREASED IN SIZE FOR VOLTAGE

DROP, E.G SHALL BE INCREASED PROPORTIONATELY. PER NEC 250.122 (B).

WHERE NON-FUSED DISCONNECT IS NOT PROVIDED "WITHIN SIGHT" OF MOTOR, FEEDER (AND/OR BRANCH CIRCUIT) OVER-CURRENT DEVICE SERVING SUCH MOTOR SHALL HAVE APPROVED "LOCKED-OFF" PROVISION.

CUTTING AND PATCHING MAY BE REQUIRED TO COMPLETE WORK. ALL CUTTING AND PATCHING SHALL BE DONE BY APPROVED METHODS. PATCHING TO BE COMPLETED TO OWNER'S STANDARDS. COORDINATE WITH OWNER.

KEYED NOTES

EXISTING CIRCUIT TO BE REMOVED. MAINTAIN EXISTING CONDUIT FOR NEW CONDUCTORS. SEE PROPOSED SERVICE SINGLE LINE DIAGRAMS.

REMOVE CONDUCTORS BETWEEN SLIP 24 AND SLIP 25.
CONDUIT TO REMAIN. SEAL OFF BOTH ENDS OF CONDUIT BY APPROVED METHODS.

CONTRACTOR TO PROVIDE AND INSTALL (2) 4/0 THWN/THNN CU AND (1) 2/0 THWN/THNN CU AND (1) #4 E.G. IN EXISTING CONDUIT BETWEEN SLIPS. CONTRACTOR TO VERIFY THAT CONDUIT IS AT LEAST 2" IN DIAMETER TO COMPLY WITH NEC FILL REQUIREMENTS. REPORT ANY DISCREPENCIES TO ENGINEER. CONTRACTOR MAY REUSE REMOVED COPPER IF CONDUCTORS ARE NOT DAMAGED AND ARE OF SPECIFIED SIZE. CONTRACTOR SHALL INCLUDE THE REUSE OF EXISTING ADEQUATELY SIZED CONDUCTORS IN BID.

CONTRACTOR TO PROVIDE AND INSTALL (1) 2" CONDUIT WITH (2) 4/0 THWN/THNN CU AND (1) 2/0 THWN/THNN CU AND (1) #2 E.G. CU BETWEEN NEW DISCONNECT AND PEDESTAL AT SLIP #33 BENEATH PROPERTY LINE BETWEEN LOT #11 AND

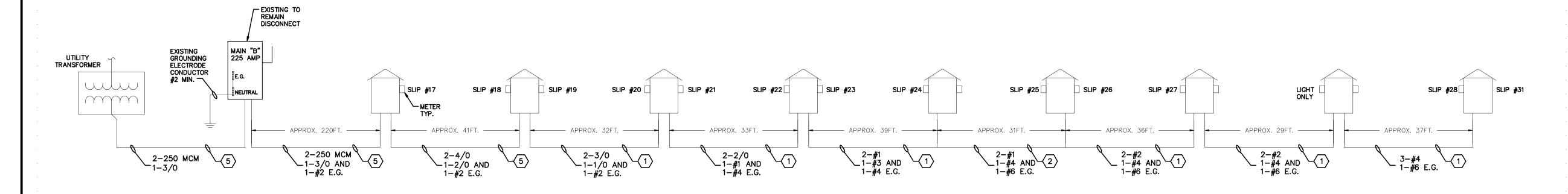
 $\langle 5 \rangle$ existing circuit and conductors to remain.

6 CONTRACTOR TO PROVIDE AND INSTALL (1) 2" CONDUIT WITH (2) 4/0 THWN/THNN CU AND (1) 2/0 THWN/THNN CU BÉTWÉEN UTILITY TRANSFORMER AND NEW DISCONNECT. COORDINATE EXACT LOCATION OF TRANSFORMER AND INSTALLATION OF NEW CONDUCTORS WITH UTILITY COMPANY.

PROVIDE AND INSTALL NEW 42KAIC, NEMA 3R, 200A DISCONNECT WITH INTEGRAL 200A FUSE ON 6X6 CONCRETE POST DRIVEN INTO GROUND NEAR UTILITY TRANSFORMER. COORDINATE EXACT DISCONNECT AND POST LOCATION WITH AUTHORITY HAVING JURISDICTION. ESTABLISH GROUND AND NEUTRAL BOND AT DISCONNECT. PROVIDE AND INSTALL GROUNDING SYSTEM AS INDICATED ON SINGLE LINE.

8 CONTRACTOR TO PROVIDE AND INSTALL (1) 2" CONDUIT WITH (2) 4/0 THWN/THNN CU AND (1) 2/0 THWN/THNN CU AND (1) #4 E.G. BETWEEN SLIPS AS SHOWN. COORDINATE EXACT ROUTING OF CONDUIT WITH OWNER. INSTALLATION MAY REQUIRE CUTTING AND PATCHING. COORDINATE EXACT METHODS WITH OWNER PRIOR TO BID. PEDESTAL WAS PART OF EXISTING SERVICE 'C'. CONNECT TO NEW SERVICE 'B2' AS

EXISTING SERVICE 'B'



SERVICE "B1" SUMMARY

*NOTE: ALL BREAKERS AND PEDESTALS IN TABLE ARE EXISTING OR TO BE PROVIDED BY OWNER. ADDITIONAL 30A RECEPTACLES ARE INCLUDED FOR #22 AND #23 FOR FUTURE USE.

SERVICE "B2" SUMMARY

*NOTE: ALL BREAKERS AND PEDESTALS IN TABLE ARE EXISTING OR TO BE PROVIDED BY OWNER. ADDITIONAL 30A RECEPTACLES ARE INCLUDED FOR #26, #33, AND #31 FOR FUTURE USE.

OF 50A RECEPTACLES

OF 50A RECEPTACLES

BREAKERS

30/1 AND 30/1

30/1 AND 20/1

50/2

30/1 AND 15/2 AND 30/1

BREAKERS

30/1 AND 20/1

15/2

50/2 AND 30/1

3-AMP RESET

30/1 30/1

30/1 AND 15/2 AND 30/

LIFT MOTORS

(2) 3/4HP

(2) 3/4HP

 $(2) \ 3/4HP$

N/A

(2) 3/4HP

(2) 3/4HP

LIFT MOTORS

(2) 3/4HP

(2) 1HP

N/A

N/A

(2) 3/4HP

METER

YES

YES NO

YES

YES

METER

YES

YES

YES

NO

YES

YES

YES

OF 30A RECEPTACLES

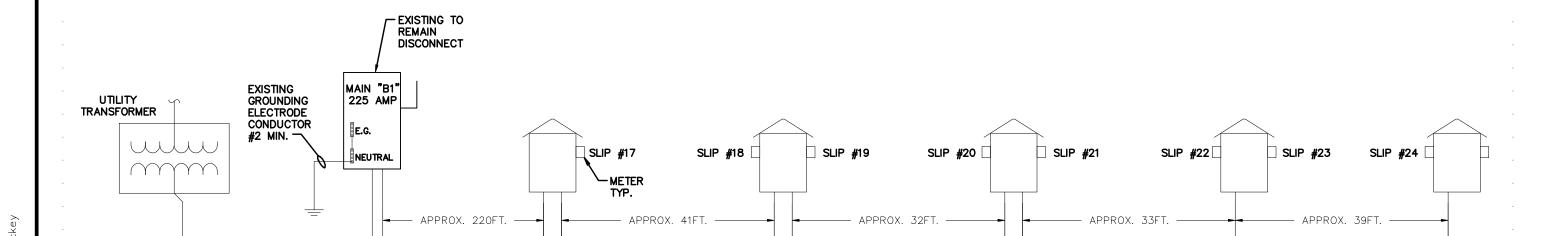
OF 30A RECEPTACLES

OF 20A RECEPTACLES

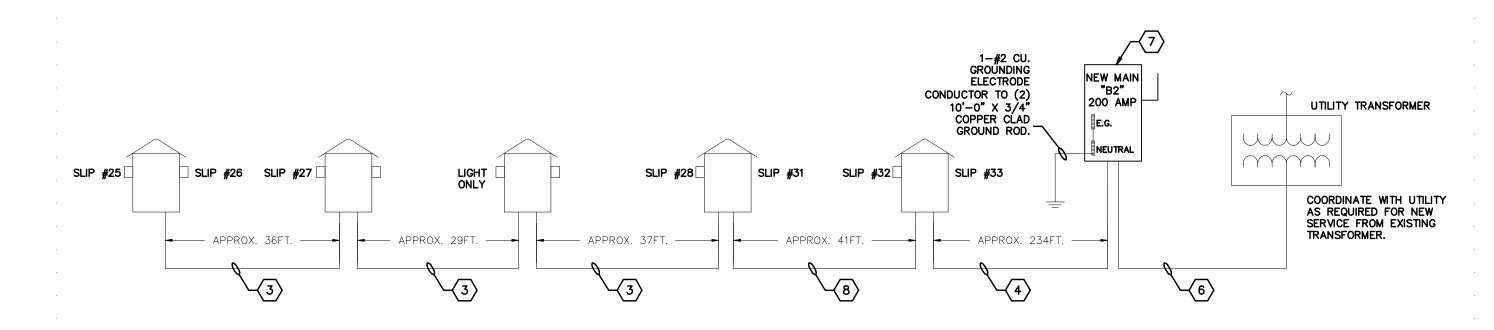
OF 20A RECEPTACLES

LIGHT

PROPOSED SERVICE 'B1'



PROPOSED SERVICE 'B2'



ELECTRICAL SERVICE B1 & B2 SINGLE LINE

S E A L

TES

ESTA'

HARBOUR YACHT B

TO THE BEST OF MY KNOWLEDGE, SAI PLANS AND SPECIFICATIONS COMPLY WITH ALL APPLICABLE BUILDING CODE:

PHILIP J. FEIKEMA P.E. 65083

FENGINEERS
1208 C.O.A. #404

DRAWN BY : JMM CHECKED BY : PF

		SERVICE "C2	" SUMMARY			
Slip #	# OF 20A RECEPTACLES	# OF 30A RECEPTACLES	# OF 50A RECEPTACLES	BREAKERS	LIFT MOTORS	METER
34	0	0	0	N/A	N/A	NO
35	1	2	0	30/1 AND 30/1 AND 15/2	(2) 1HP	YES
36	0	1	0	30/1	N/A	NO
37	0	1	0	30/1	N/A	NO
38	0	0	1	50/2	N/A	YES
39	1	1	0	30/1 AND 15/2 AND 20/1	(2) 3/4HP	YES
40	0	1	0	30/1	N/A	YES
41	0	1	0	30/1	N/A	NO
42	1	1	0	30/1 AND 15/1 AND 20/1	(2) 3/4HP	YES
43	0	1	0	30/1	N/A	YES

GENERAL NOTES

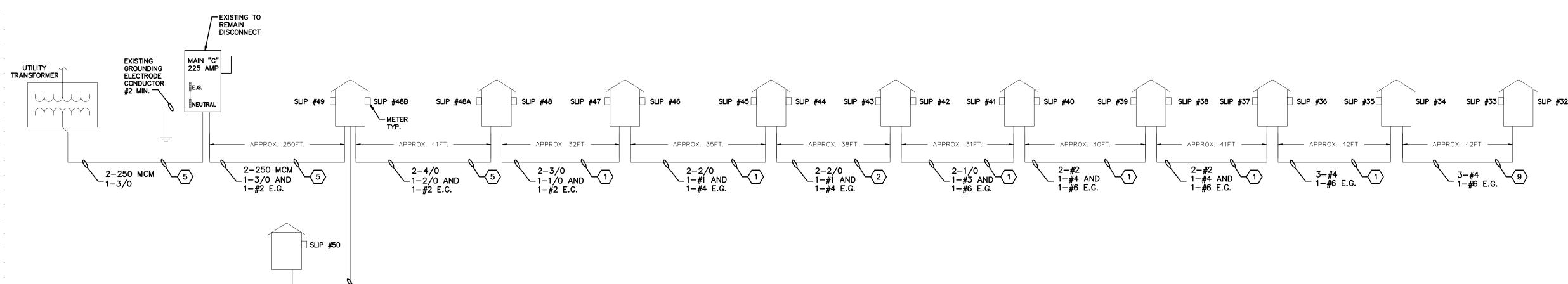
GENERAL NOTES APPLY TO ALL ELECTRICAL SHEETS

- DRAWINGS ARE BASED ON FIELD OBSERVATION AND EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO THE ARCHITECT/ ENGINEER BEFORE DISTURBING EXISTING INSTALLATION.
- EXISTING TO REMAIN ELECTRICAL CIRCUITRY DOWNSTREAM AND UPSTREAM OF DEMOLISHED DEVICES SHALL BE MAINTAINED. PROVIDE ALL ELECTRICAL COMPONENTS (BOXES, CONDUIT, WIRING, ETC ...) AS REQUIRED.
- ELECTRICAL CONTRACTOR SHALL BE REQUIRED TO CUT, CAPTURE AND EXTEND OR REROUTE EXISTING CONDUITS AND CONDUCTORS AS REQUIRED.
- 4. DO NOT SCALE FROM THESE DRAWINGS.
- 5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- WIRE SIZE SHALL BE INCREASED IN SIZE FOR VOLTAGE DROP, E.G SHALL BE INCREASED PROPORTIONATELY. PER
- NEC 250.122 (B).
- WHERE NON-FUSED DISCONNECT IS NOT PROVIDED "WITHIN SIGHT" OF MOTOR, FEEDER (AND/OR BRANCH CIRCUIT)
 OVER-CURRENT DEVICE SERVING SUCH MOTOR SHALL HAVE APPROVED "LOCKED-OFF" PROVISION.
- CUTTING AND PATCHING MAY BE REQUIRED TO COMPLETE WORK. ALL CUTTING AND PATCHING SHALL BE DONE BY APPROVED METHODS. PATCHING TO BE COMPLETED TO OWNER'S STANDARDS. COORDINATE WITH OWNER.

KEYED NOTES

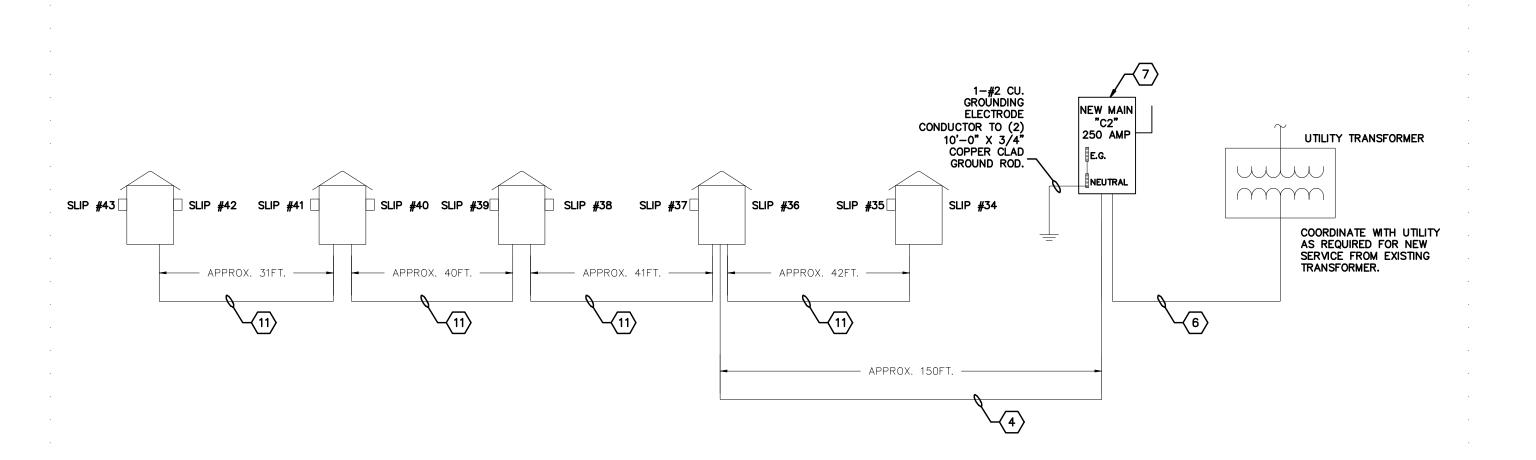
- EXISTING CIRCUIT TO BE REMOVED. MAINTAIN EXISTING CONDUIT FOR NEW CONDUCTORS. SEE PROPOSED SERVI CONDUIT FOR NEW CONDUCTORS. SEE PROPOSED SERVICE SINGLE LINE DIAGRAMS.
- 2 REMOVE CONDUCTORS BETWEEN SLIP 43 AND SLIP 44. CONDUIT TO REMAIN. SEAL OFF BOTH ENDS OF CONDUIT BY APPROVED METHODS.
- CONTRACTOR TO PROVIDE AND INSTALL (2) 4/0 THWN/THNN CU AND (1) 2/0 THWN/THNN CU AND (1) #4 E.G. IN EXISTING CONDUIT BETWEEN SLIPS. CONTRACTOR TO VERIFY THAT CONDUIT IS AT LEAST 2" IN DIAMETER TO COMPLY WITH NEC FILL REQUIREMENTS. REPORT ANY DISCREPENCIES TO ENGINEER. CONTRACTOR MAY REUSE REMOVED COPPER IF CONDUCTORS ARE NOT DAMAGED AND ARE OF SPECIFIED SIZE. CONTRACTOR SHALL INCLUDE THE REUSE OF EXISTING ADEQUATELY SIZED CONDUCTORS IN BID.
- CONTRACTOR TO PROVIDE AND INSTALL (1) 2-1/2" CONDUIT WITH (2) 250 THWN/THNN CU AND (1) 4/0 THWN/THNN CU AND (1) #2 E.G. CU BETWEEN NEW DISCONNECT AND PEDESTAL AT SLIP #36 AND #37 BENEATH PROPERTY LINE BETWEEN LOT #11 AND LOT #12.
- $\langle 5 \rangle$ existing circuit and conductors to remain.
- 6 CONTRACTOR TO PROVIDE AND INSTALL (1) 2-1/2" CONDUIT WITH (2) 250 THWN/THNN CU AND (1) 3/0 THWN/THNN CU BETWEEN UTILITY TRANSFORMER AND NEW DISCONNECT. COORDINATE EXACT LOCATION OF TRANSFORMER AND INSTALLATION OF NEW CONDUCTORS WITH UTILITY COMPANY.
- PROVIDE AND INSTALL NEW 42KAIC, NEMA 3R, 400A DISCONNECT WITH INTEGRAL 250A FUSE ON 6X6 CONCRETE POST DRIVEN INTO GROUND NEAR UTILITY TRANSFORMER. COORDINATE EXACT DISCONNECT AND POST LOCATION WITH AUTHORITY HAVING JURISDICTION. ESTABLISH GROUND AND NEUTRAL BOND AT DISCONNECT. PROVIDE AND INSTALL GROUNDING SYSTEM AS INDICATED ON SINGLE LINE.
- (8) CONTRACTOR SHALL REMOVE EXISTING CONDUIT AND CONDUCTORS FEEDING PEDESTAL FOR SLIP #50. CUTTING AND PATCHING MAY BE REQUIRED. ALL CUTTING AND PATCHING SHALL BE DONE BY APPROVED METHODS. PATCHING TO BE COMPLETED TO OWNER'S STANDARDS. COORDINATE WITH
- PREMOVE CONDUCTORS BETWEEN SLIP #34 AND SLIP #33.
 CONDUIT TO REMAIN. SEAL OFF BOTH ENDS OF CONDUIT BY APPROVED METHODS. POWER TO PEDESTAL FOR SLIP #33 AND #32 WILL BE PROVIDED FROM NEW SERVICE "B2".
- CONTRACTOR TO PROVIDE AND INSTALL (1) 2" CONDUIT WITH (2) 4/0 THWN/THNN CU AND (1) 2/0 THWN/THNN CU AND (1) #2 E.G. CU FROM PEDESTAL AT SLIP #49 AND #48B TO ÈXISTING PEDESTAL #50. UTILIZE EXISTING ROUTE FROM DEMOLISHED CONDUCTORS AND CONDUIT. SEE KEYED NOTE 8.
- CONTRACTOR TO PROVIDE AND INSTALL (2) 250 THWN/THNN CU AND (1) 3/0 THWN/THNN CU AND (1) #4 E.G. CU IN EXISTING CONDUIT BETWEEN SLIPS. CONTRACTOR TO VERIFY THAT CONDUIT IS AT LEAST 2" IN DIAMETER TO COMPLY WITH NEC FILL REQUIREMENTS. REPORT ANY DISCREPENCIES TO ENGINEER. CONTRACTOR MAY REUSE REMOVED COPPER IF CONDUCTORS ARE NOT DAMAGED AND ARE OF SPECIFIED SIZE. CONTRACTOR SHALL INCLUDE THE REUSE OF EXISTING ADEQUATELY SIZED CONDUCTORS IN BID.

EXISTING SERVICE 'C'



PROPOSED SERVICE 'C1'

- EXISTING TO REMAIN DISCONNECT EXISTING
GROUNDING
ELECTRODE
CONDUCTOR
#2 MIN. \bigcap SLIP #50 PROPOSED SERVICE 'C2'



ELECTRICAL — SERVICE C1 & C2 SINGLE LINE

; ENGINEERS 1208 C.O.A. #404 neyengineering.com

ECHANICAI FOURTH AVE ONE (941) 748-:

TES ESTA' RR 15 HARBOUR YACHT B

TO THE BEST OF MY KNOWLEDGE, SAI PLANS AND SPECIFICATIONS COMPLY WITH ALL APPLICABLE BUILDING CODE:

PHILIP J. FEIKEMA P.E. 65083

S E A LREV. #

DRAWN BY : JMM CHECKED BY : PF

SHEET No. :

SUBTOTAL CALCULATED LOAD:

TOTAL SERVICE DEMAND:

TOTAL CALCULATED LOAD:

LIGHT (125%):

**TABLE INCLUDES PROVISIONS FOR FUTURE RECEPTACLES AT EACH PEDESTAL

37640.16 VA

37.5

37677.66

156.99025

SLIP#	20A R	ECEPTACLES			50A .	RECEPTACLES	30A RI	SCEPTACLE	S	MOTOR LOAD	S			
#	#	VOLTAGE	va	#	voltage	va	#	voltage	va	size	#	voltage	amps	va
44	1	120	180	Ö	240	0	2	120	7200	3/4 hp	2	240	6.4	3072
45	1	120	180	0	240	0	2	120	7200	3/4 hp	2	240	6.4	3072
46	1	120	180	0	240	0	2	120	7200	3/4 hp	2	240	6.4	3072
47	0	120	0	0	240	0	2	120	7200	N/A	0	240	0	0
48	0	120	0	0	240	0	2	120	7200	N/A	0	240	0	0
48A	0	120	0	0	240	0	2	120	7200	N/A	0	240	0	0
48B	0	120	0	0	240	0	2	120	7200	N/A	0	240	0	0
49	0	120	0	0	240	0	2	120	7200	N/A	0	240	0	0
50	0	120	0	0	240	0	2	120	7200	N/A	0	240	0	0
	TOTAL VA		540	TOTAL VA		0	TOTAL VA		64800	TOTAL MOTO			TOTAL VA	9216 5990.4
					CALCULATED REG ADD MOTOR LOA ADD 25% LARGE DEMAND FACTOR TOTAL CALCULAT	D (65%) ST MOTOR:	45738 5990 504 52232 0.9 47009.16		TABLE 555.12 NOTE #2)					
					TOTAL SERVIC		195.8715							
					PTACLES AT EA									

SLIP#	20A R	ECEPTACLES			50A	RECEPTACLES	30A RE	CEPTACLI	TS .	MOTOR LOAD	S			
#	#	VOLTAGE	va	#	voltage	va	#	voltage	Va	size	#	voltage	amps	va
34	Ö	120	0	Ö	240	0	2	120	7200	N/A	Ö	240	Ö	0
35	1	120	180	0	240	0	2	120	7200	1 hp	2	240	8.4	4032
36	0	120	0	0	240	0	2	120	7200	N/A	0	240	0	0
37	0	120	0	0	240	0	2	120	7200	N/A	0	240	0	0
38	0	120	0	0	240	0	2	120	7200	N/A	0	240	0	0
39	1	120	180	0	240	0	2	120	7200	3/4 hp	2	240	6.4	3072
40	0	120	0	0	240	0	2	120	7200	3/4 hp	2	240	6.4	3072
41	0	120	0	0	240	0	2	120	7200	N/A	0	240	0	0
42	1	120	180	0	240	0	2	120	7200	3/4 hp	2	240	6.4	3072
43	0	120	0	0	240	0	2	120	7200	N/A	0	240	0	0
	TOTAL VA		540	TOTAL VA		0	TOTAL VA		72000				TOTAL VA	13248
					CALCULATED RE ADD MOTOR LOA ADD 25% LARGE DEMAND FACTOR TOTAL CALCULAT	R (20 RECEPTS): CEPT LOAD: D (65%) ST MOTOR: R : TED LOAD:	0 72540 0.7 50778 8611 504 59893 0.9 53903.88	VA (NEC	TABLE 555.12 NOTE #1) TABLE 555.12 NOTE #2)					
					TOTAL SERVIC	E DEMAND:	224.5995							

12.9	179	15	250000	0.3
12.9	179	196	250000	3.6
12.9	179	144	211600	3.1
		TOTAL VOLTAGE	DROP:	7.0
		% VOLTAGE DRO	DP:	2.93%

K-VALUE	CURRENT	DISTANCE	CIRCULAR MILS	VOLTAGE DROP
12.9	175	10	250000	0.2
12.9	175	220	250000	4.0
12.9	175	136	211600	2.9
		TOTAL VOLTAGE	7.1	
		% VOLTAGE DRO	2.94%	

		VOLTAGE DROP (S	SERVICE B1)	
K-VALUE	CURRENT	DISTANCE	CIRCULAR MILS	VOLTAGE DROP
12.9	173	10	250000	0.2
12.9	173	220	250000	3.9
12.9	173	145	211600	3.1
		TOTAL VOLTAGE	7.2	
		% VOLTAGE DRO	2.99%	

		VOLTAGE DROP (S	SERVICE B2)	
K-VALUE	CURRENT	DISTANCE	CIRCULAR MILS	VOLTAGE DROP
12.9	157	12	211600	0.2
12.9	157	234	211600	4.5
12.9	157	143	211600	2.7
		TOTAL VOLTAGE	DROP:	7.4
		% VOLTAGE DRO	3.10%	

		VOLTAGE DROP (S	'ERVICE C2)	
K-VALUE	CURRENT	DISTANCE	CIRCULAR MILS	VOLTAGE DROP
12.9	225	12	250000	0.3
12.9	225	150	250000	3.5
12.9	225	154	250000	3.6
		TOTAL VOLTAGE	DROP:	7.3
		% VOLTAGE DRO	<i>P</i> :	3.06%
		VOLTAGE DROP (S	ERVICE C1)	
K-VALUE	CURRENT	DISTANCE	CIRCULAR MILS	VOLTAGE DROP

TOTAL VOLTAGE DROP:

% VOLTAGE DROP:

250000

250000

0.2

5.*1*

3.6

8.9

3.69%

196

196

12.9

12.9

DOTTMITTED	IAUDI U		ANALISI	ນ
	NEW S	SERVICE	A2	
CONDUCTOR LEN	IGTH " L"			
CONDUCTOR C-V				13
	"SCA"			40
PHASE FACTOR				
VOLTAGE "V"				
SHORT CIRCUIT		1		
AMPS ESTIMATED	=		*	SCA
AT SERVICE ENTRANCE	1 +	(PF * L* SCA		_
ESITMATED FAU		_,	33817 A.	MPS
ESTIMATED	FAULT C	IIPPFNT	ANAIYSI	S
EOIIMAIED				IJ
		SERVICE	<i>B2</i>	
CONDUCTOR LEN	VGTH "L"			
CONDUCTOR C-V	VALUE "C"			13
ESTIMATED XF	"SCA"			4(
PHASE FACTOR				•
VOLTAGE "V"				
SHORT CIRCUIT		1		
AMPS ESTIMATED	= <u></u>		<u> </u>	SCA
AT SERVICE ENTRANCE	1 +	(PF * L* SCA	\ / (C * V))	
ESITMATED FAU	LT CURRENT	" <i>=</i>	34910 A.	MPS
			\ / (C * V))	
ESTIMATED	FAULT C	URRENT	ANALYSI	S
				~
		SERVICE	UZ	
CONDUCTOR LEN				
CONDUCTOR C-V	VALUE "C"			1:
ESTIMATED XF	"SCA"			4(
PHASE FACTOR				•
VOLTAGE "V"				
SHORT CIRCUIT		1	1	
AMPS ESTIMATED	= <u></u>		*	SCA
AT SERVICE ENTRANCE	1 +	(PF * L* SCA		•
::::::= _::::::::::::::::::::::::::::			, , , , , , , , , , , , , , , , , , , ,	

D FAULT CURRENT ANALYSIS	
NEW SERVICE A2	
ENGTH " L"	15
<i>I-VALUE</i> " <i>C</i> " 135	500
F "SCA" 400	94
R "PF"	1
,	240
1	
=*SCA	
NCE 1 + (PF * L* SCA / (C * V))	
AULT CURRENT = 33817 AMPS	
D FAULT CURRENT ANALYSIS	
NEW SERVICE B2	
ENGTH " L"	12
C-VALUE "C" 135	500
F "SCA" 400	94
R "PF"	1
	240
1	
o =*_SCA ANCE 1 + (PF * L* SCA / (C * V))	
AULT CURRENT = 34910 AMPS	
AULI COMMENT — STOTO AMIS	
D FAULT CURRENT ANALYSIS	
NEW SERVICE C2	
ENGTH " L"	12
	500
<i>C-VALUE</i> " <i>C</i> " 135)94
F "SCA" 400	
	1
F "SCA"	

	BY_	
	PHILIP J. FEIKEN 65083	IA P.E.
	DATE:	
	SEA	L
I	REV. #	DATE
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TO THE BEST OF MY KNOWLEDGE, SAID PLANS AND SPECIFICATIONS COMPLY WITH ALL APPLICABLE BUILDING CODES

FETATES

HARBOUR YACHT B

JOB NO. :

DATE : 6-22-07 DRAWN BY : JMM CHECKED BY : PF SHEET No. :

E5

SCOPE OF WORK AND GENERAL CONDITIONS:
THE SCOPE OF WORK SPECIFIED HEREIN CONSISTS OF PROVIDING (DEFINED AS FURNISH AND INSTALL) ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED TO COMPLETE THE ELECTRICAL AND RELATED WORK INDICATED ON THE DRAWINGS, AS SPECIFIED HEREIN AND SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT. ELECTRICAL WORK INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: CIRCUIT BREAKERS
DISCONNECT SWITCHES

DISCONNECT SWITCHES
GROUNDING
RACEWAY FOR POWER DISTRIBUTION

CONDUCTORS FOR POWER DISTRIBUTION
CONNECTION OF EXISTING PEDESTALS, EXISTING ELECTRICAL EQUIPMENT.
FINAL ACCEPTANCE/WARRANTY

ITEMS SPECIFIED HEREIN, SHOWN ON THE DRAWINGS, AND/OR REASONABLY INTERPRETED FROM THE DRAWINGS THAT ARE NECESSARY TO

COMPLETE THE ELECTRICAL WORK SHALL BE PROVIDED BY THIS DIVISION, WHETHER ITEM IS SPECIFICALLY SHOWN OR NOT.

GENERAL:

CONTRACTOR SHALL BECOME THOROUGHLY ACQUAINTED WITH THE PROJECT SITE (e.g. EXISTING CONDITIONS) AND THE ENTIRE CONSTRUCTION DOCUMENTS PACKAGE (e.g. ELECTRICAL DRAWINGS AND SPECIFICATIONS) BEFORE BID SUBMISSION. WORK OF THE ELECTRICAL CONTRACTOR MUST BE COORDINATED WITH THE WORK OF ALL TRADES.

INTENT:
THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO DESCRIBE THAT COMPLETE ELECTRICAL AND CONDUIT RACEWAY SYSTEMS ARE REQUIRED. HOWEVER, THE WORK SHALL BE COMPLETE EVEN THOUGH ITEMS MAY NOT BE SPECIFICALLY CALLED FOR OR SHOWN.
INSTALLATIONS SHALL MEET ALL GOVERNING CODES, SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND ALL AGENCIES HAVING

PERMITS, TAXES, FEES:
CONTRACTOR SHALL OBTAIN ALL GOVERNMENTAL PERMITS, PAY ALL SALES TAXES AND OTHER ASSOCIATED FEES INCLUDING COSTS FOR
UTILITY CONNECTIONS, REQUIRED TO PERFORM THE INTENDED ELECTRICAL WORK. CONTRACTOR SHALL FILE ALL NECESSARY PLANS,
PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION.
CONTRACTOR SHALL OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR ELECTRICAL WORK AND DELIVER SAME TO THE OWNER AND
ARCHITECT BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK.

CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ALL LABOR, MATERIALS, SERVICES, APPARATUS, OR DRAWINGS NECESSARY TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS, WHETHER OR NOT SHOWN ON DRAWINGS AND/OR SPECIFIED.

ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE FOLLOWING: NATIONAL ELECTRIC CODE

APPLICABLE STATE AND LOCAL CODES
NATIONAL BUREAU OF FIRE UNDERWRITERS
RECILIATIONS OF THE SERVING LITHLITY COMPANI

ALL MATERIAL AND EQUIPMENT PROVIDED FOR THE ELECTRICAL WORK SHALL BEAR THE APPROVAL LABEL, OR SHALL BE LISTED, BY UNDERWRITERS' LABORATORIES, INC.

MEASUREMENTS:
SHOULD THE CONTRACTOR DISCOVER ANY DISCREPANCY BETWEEN ACTUAL MEASUREMENTS AND THOSE INDICATED ON THE DRAWINGS,
WHICH PREVENTS FOLLOWING GOOD PRACTICE OR THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, HE SHALL NOTIFY THE ENGINEER
THROUGH THE GENERAL CONTRACTOR, AND SHALL NOT PROCEED WITH HIS WORK UNTIL HE HAS RECEIVED INSTRUCTIONS FROM THE
ENGINEER. ALL REQUESTS FOR INFORMATION (RFI) SHALL INCLUDE A PROPOSED SOLUTION.

PRIOR TO ROUGH—IN OF EQUIPMENT THE OWNER, ENGINEER RESERVES THE RIGHT TO RELOCATE ANY DISCONNECT, WIRING DEVICE, ETC THREE (3) FEET IN ANY DIRECTION WITHOUT ANY ADDITIONAL CHARGE, FEE, OR CHANGE ORDER.

DRAWINGS:

DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION OF THE ELECTRICAL EQUIPMENT.

ANY MODIFICATION SHALL BE DONE IN A MANNER APPROVED BY THE STRUCTURAL ENGINEER.

IF DIRECTED BY THE OWNER/ENGINEER, THE CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LOCATIONS OF ELECTRICAL WORK AS NEEDED TO PREVENT CONFLICTS WITH EXISTING CONDITIONS AND FOR PROPER INSTALLATION OF THE

MATERIAL AND WORKMANSHIP:
ALL MATERIALS AND APPARATUS REQUIRED FOR ELECTRICAL WORK, EXCEPT AS SPECIFICALLY NOTED OTHERWISE, SHALL BE NEW, OF
FIRST CLASS QUALITY, AND SHALL BE FURNISHED, DELIVERED, ERECTED, CONNECTED AND FINISHED IN EVERY DETAIL AND SHALL BE SO
SELECTED AND ARRANGED AS TO FIT PROPERLY. WHERE NO SPECIFIC KIND OR QUALITY OF MATERIAL IS GIVEN, A FIRST CLASS
STANDARD ARTICLE, AS APPROVED BY THE ENGINEER, SHALL BE PROVIDED.

CONTRACTOR SHALL PROCURE THE SERVICES OF AN EXPERIENCED SUPERINTENDENT, WHO SHALL BE CONSTANTLY IN CHARGE OF THE INSTALLATION OF THE WORK, TOGETHER WITH ALL SKILLED WORK PERSONNEL, FITTERS, METAL WORKERS, HELPERS, AND LABOR REQUIRED TO UNLOAD, TRANSFER, ERECT, CONNECT, ADJUST, OPERATE AND TEST EACH SYSTEM.

ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER. THIS INCLUDES THE PERFORMANCE OF ALL TESTS RECOMMENDED BY THE MANUFACTURER.

CUTTING AND PATCHING: CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING NECESSARY TO INSTALL ELECTRICAL WORK. PATCHING SHALL MATCH ADJACENT SURFACES AND SHALL MEET THE APPROVAL OF THE OWNER.

NO STRUCTURAL MEMBERS SHALL BE CUT OR MODIFIED IN ANY WAY WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.

CIRCUIT BREAKERS.

CIRCUIT BREAKERS SHALL BE QUICK-MAKE, QUICK-BREAK, THERMAL MAGNETIC MOLDED CASE OF FRAME SIZE, NUMBER OF POLES AND TRIP RATINGS AS SHOWN ON THE ELECTRICAL RISER DIAGRAM AND/OR PANEL SCHEDULES. MULTI-POLE BREAKERS SHALL HAVE A SINGLE HANDLE TO TRIP ALL POLES AT ONCE. CIRCUIT BREAKERS SHALL BE FROM THE SAME MANUFACTURER AS THE POWER DISTRIBUTION EQUIPMENT. PROVIDE CIRCUIT BREAKERS WITH GROUND FAULT AND ARC FAULT PROTECTION WHERE REQUIRED.

DISCONNECT SWITCHES:

DISCONNECT SWITCHES SHALL BE U.L. LISTED AND FROM SAME MANUFACTURER AS POWER DISTRIBUTION EQUIPMENT. SWITCH BLADES SHALL BE FULLY VISIBLE IN THE "OFF" POSITION WITH THE DOOR OPEN. ALL CURRENT CARRYING PARTS SHALL BE PLATED TO RESIST CORROSION.

SWITCHES SHALL BE QUICK-MAKE, QUICK-BREAK SUCH THAT, DURING NORMAL OPERATION, THE CONTACTS SHALL NOT BE CAPABLE OF BEING RESTRAINED BY THE OPERATING HANDLE AFTER THE CLOSING OR OPENING ACTION OF THE CONTACTS HAS STARTED. THE HANDLE AND MECHANISM SHALL BE AN INTEGRAL PART OF THE BOX, NOT THE COVER, WITH POSITIVE PADLOCKING PROVISIONS IN THE "OFF"

PROVIDE HEAVY-DUTY, NEMA-3R ENCLOSURE. ENCLOSURES SHALL BE PROVIDED WITH A POST FABRICATION APPLIED GRAY ENAMEL FINISH.

GROUNDING:

PROVIDE BONDING CONNECTION WITH GROUND BUSHING TO CONDUIT FROM DISTRIBUTION PANEL TO THE BREAKERS AND PEDESTALS SERVED.
ALL CONDUIT USED FOR POWER DISTRIBUTION SHALL CONTAIN A GROUND CONDUCTOR. CONDUIT RACEWAY SHALL NOT BE USED IN PLACE OF A GROUND CONDUCTOR.

CONDUIT FOR POWER DISTRIBUTION WIRING:
WRING FOR POWER DISTRIBUTION SHALL BE INSTALLED IN SCHEDULE 40/80 PVC CONDUIT. PROVIDE THE CONDUIT TYPE INDICATED IN
THIS SPECIFICATION WHERE CONDUIT TYPE IS NOT NOTED ON THE DRAWINGS.

SCHEDULE 80 PVC CONDUIT SHALL BE PROVIDED ABOVE GROUND AT EXPOSED INTERIOR AND EXTERIOR LOCATIONS WHERE CONDUIT MAY
BE SUBJECTED TO PHYSICAL DAMAGE FROM VEHICLES, MAINTENANCE EQUIPMENT, ETC. PROVIDE LARGE RADIUS ELBOWS FOR ALL

SCHEDULE 80 PVC CONDUIT SHALL BE USED FOR UNDERGROUND SERVICE ENTRANCE FEEDERS AND ALL CONDUIT BELOW ROADWAYS U.N.O. ON THE RISER DIAGRAMS AND/OR FLOOR PLANS. PROVIDE LARGE RADIUS ELBOWS FOR ALL SCHEDULE 80 PVC CONDUIT.

SCHEDULE 40 PVC CONDUIT SHALL BE USED FOR ALL UNDERGROUND FEEDERS AND WIRING EXCEPT FOR SERVICE ENTRANCE FEEDERS

AND UNDER ROADWAYS. PROVIDE LARGE RADIUS ELBOWS FOR ALL SCHEDULE 40 PVC CONDUIT.

SCHEDULE 40 PVC CONDUIT SHALL NOT BE USED MORE THAN SIX INCHES ABOVE FINISHED GRADE IN INTERIOR OR EXTERIOR LOCATIONS. PVC CONDUIT SHALL TRANSITION TO SCHEDULE 80 PVC CONDUIT NO MORE THAN SIX INCHES ABOVE GRADE.

ALL PVC CONNECTIONS SHALL BE WATERTIGHT.

INSULATING BUSHINGS WITH DOUBLE LOCK-NUTS SHALL BE USED WHEREVER A CONDUIT 1-1/4" DIA OR LARGER ENTERS A BOX, PANEL, DISCONNECT OR ELECTRICAL EQUIPMENT.

CONDUIT SIZES SHOWN ON THE DRAWINGS AND SCHEDULES ARE THE MINIMUM SIZES REQUIRED. LARGER SIZE CONDUIT TO FACILITATE WIRE PULLS, ETC, IS PERMITTED.

CONDUCTORS:

PROVIDE 75 DEGREE CELSIUS (167 DEGREE FAHRENHEIT TYPE THHW, THWN, OR XHHW INSULATED COPPER CONDUCTORS RATED AT 600V FOR POWER DISTRIBUTION WRING. CONDUIT WRE FILL SHOWN ON THE DRAWINGS AND FEEDER SCHEDULES ARE BASED ON TYPE THW WRE UNLESS NOTED OTHERWISE.

CONDUCTORS UP TO AND INCLUDING No. 10 AWG SHALL BE SOLID AND CONDUCTORS No. 8 AWG AND LARGER SHALL BE STRANDED. MINIMUM CONDUCTOR SIZE SHALL BE No.12 AWG. CONDUCTORS SHALL BE CONTINUOUS BETWEEN EQUIPMENT AND DEVICES. SPLICES ARE TO BE MADE ONLY IN ACCESSIBLE JUNCTION OR OUTLET BOXES AND SHOULD BE KEPT TO A MINIMUM. SPLICES ON No.12 AND No.10 WRE SHALL BE MADE WITH PRESSURE CONNECTORS CAPABLE OF CARRYING FULL WIRE CAPACITY. SPLICES ON No.8 WIRE AND LARGER SHALL BE MADE WITH SOLDERLESS LUGS WRAPPED WITH BOTH RUBBER AND PLASTIC ELECTRICAL TAPE. CONNECTIONS TO FIXED EQUIPMENT TERMINALS ARE TO BE MADE WITH SOLDERLESS LUGS.

PROJECT CLOSE—OUT:
TESTING: FINAL TESTS SHALL BE MADE WHEN WORK HAS BEEN COMPLETED. PROVIDE COPY OF FINAL TEST TO OWNER/ ENGINEER. WHEN REQUESTED, THE CONTRACTOR SHALL CONDUCT REQUIRED OPERATING TEST(S) IN THE PRESENCE OF THE ENGINEER AND OTHER AUTHORIZED PERSONS.

TESTS SHALL DEMONSTRATE THAT THE SYSTEM FUNCTIONS PROPERLY THROUGHOUT, THAT IT IS FREE FROM SHORTS, AND THAT ALL REQUIREMENTS HEREIN HAVE BEEN COMPLIED WITH. CONTRACTOR SHALL PROVIDE ALL NECESSARY INSTRUMENTS AND PERSONNEL FOR TESTS AND THE OWNER WILL SUPPLY THE CURRENT. TESTS SHALL BE AS PRESCRIBED BY THE AUTHORITY HAVING JURISDICTION AND ENGINEER AND SHALL INCLUDE MEGGER TESTS IN ACCORDANCE WITH N.E.C. RECOMMENDATIONS.

FINAL ACCEPTANCE:
AFTER TESTING, A FINAL INSPECTION SHALL BE MADE BY THE OWNER/ENGINEER AND OTHER AUTHORIZED PERSONS WITH THE
CONTRACTOR. THE INSPECTION SHALL INCLUDE, BUT NOT BE LIMITED TO, CHECK THAT ALL WORK HAS BEEN PERFORMED IN
PROFESSIONAL MANNER.

FINAL ACCEPTANCE OF THE PROJECT SHALL NOT PREJUDICE THE OWNER'S RIGHT TO REQUIRE REPLACEMENT AND/OR REPAIR OF ANY DEFECTIVE WORK OR MATERIALS.

WARRANTY:

ALL PARTS, MATERIALS, EQUIPMENT AND LABOR FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS SHALL BEAR A ONE (1) YEAR, NO COST TO THE OWNER, WARRANTY FROM THE DATE OF FINAL ACCEPTANCE. CONTRACTOR SHALL PROVIDE ALL OF THE ABOVE WARRANTY REQUIREMENTS IN A WRITTEN STATEMENT ALONG WITH EQUIPMENT MANUFACTURER'S WARRANTIES.

RECORD DRAWINGS:

CONTRACTOR SHALL KEEP ACCURATE RECORDS OF ACTUAL CONDITIONS INCLUDING DEVICE LOCATIONS AND CONDUIT RUNS. CONTRACTOR

RECORD DRAWINGS:
CONTRACTOR SHALL KEEP ACCURATE RECORDS OF ACTUAL CONDITIONS INCLUDING DEVICE LOCATIONS AND CONDUIT RUNS. CONTRACTOR SHALL PROVIDE OWNER WITH A REPRODUCIBLE SET OF "AS BUILT" PLANS SHOWING THE COMPLETE ELECTRICAL AS INSTALLED (AS BUILT DRAWINGS). THE SCALE ON THESE AS BUILT DRAWINGS SHALL BE NO SMALLER THAN 1"=20'-0".

END OF SPECS

LANDING ESTATES
ASIN ELECTRICAL
DESIGN

BAYPOINTE TERRACE
ORTEZ, FL 34215

HARBOUR LANDIN YACHT BASIN ED DESIGN

TO THE BEST OF MY KNOWLEDGE, SAI PLANS AND SPECIFICATIONS COMPLY WITH ALL APPLICABLE BUILDING CODES

> PHILIP J. FEIKEMA P.E. 65083

REV. # DATE

JOB NO. :

DATE : 6-22-01

DRAWN BY : JMM

CHECKED BY : PF

SHEET No. :

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