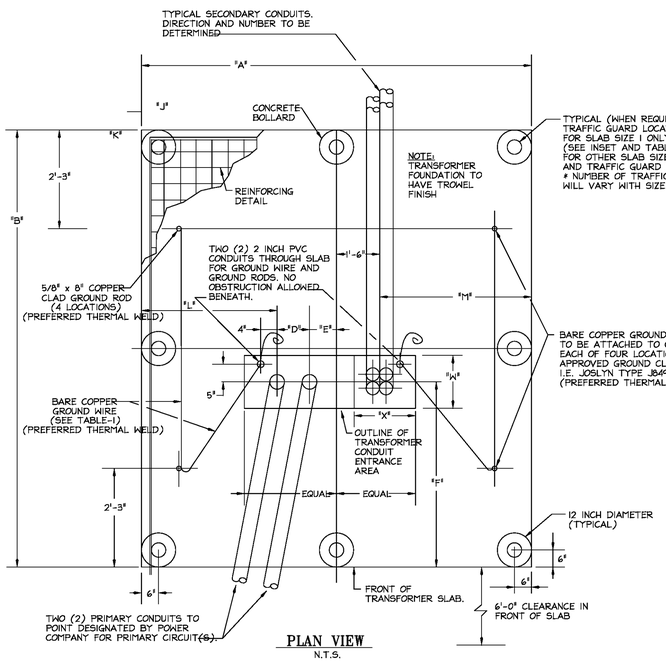
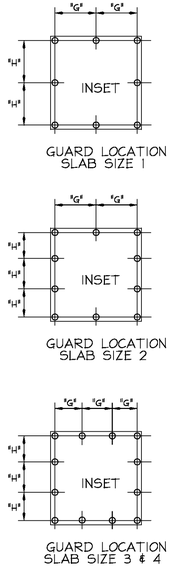
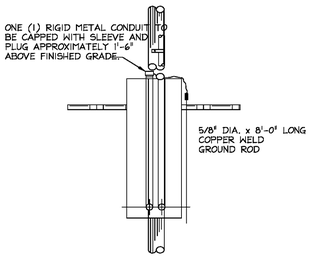
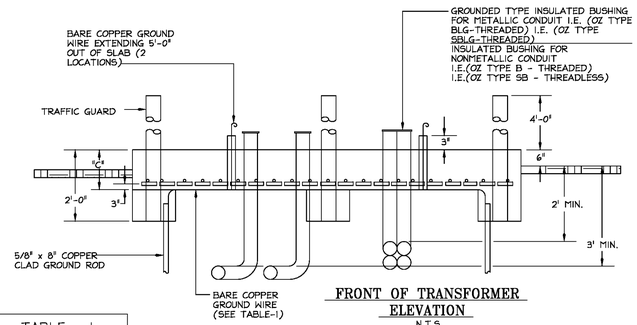


PLAN VIEW
N.T.S.





TERMINAL POLE
FRONT VIEW



FRONT OF TRANSFORMER ELEVATION
N.T.S.

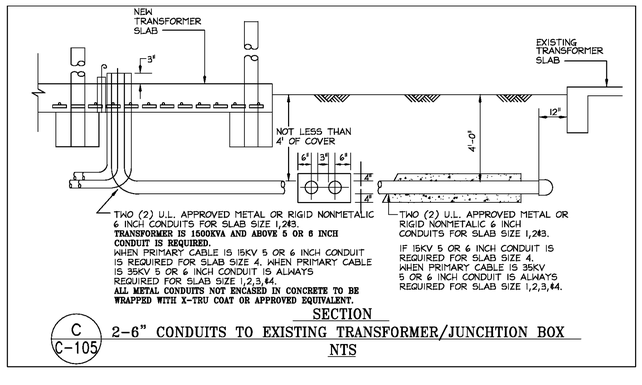
TABLE - I

SLAB SIZE	KVA	"A"	"B"	"C"	# TYPE I "D"	# TYPE I "E"	## TYPE II "D"	## TYPE II "E"	"F"	TRAFFIC GUARDS POSTS	TRAFFIC GUARDS "G"	TRAFFIC GUARDS POSTS	TRAFFIC GUARDS "H"	COPPER GROUND WIRE SIZE ALL VOLTAGES	REBAR REBAR DIA.	REBAR REBAR SPACING	"J"	"K"	WEIGHT (1000lb.) TRANSF.	WEIGHT (1000lb.) FOUNDATION	WEIGHT (1000lb.) SLAB	WEIGHT (1000lb.) TOTAL	# TYPE I "L"	# TYPE I "M"	## TYPE II "L"	## TYPE II "M"
1	150 300	9'-2"	11'-0"	8"	6"	10"	1'-1"	6"	4'-8"	3	4'-1"	3	5'-0"	1/0 AWG	5/8"	6"	4"	3"	7	12	19	38	3'-3"	3'-1"	3'-0"	3'-1"
2	500 750	9'-8"	12'-3"	8"	6"	10"	1'-1"	7"	4'-10"	3	4'-4"	4	3'-9"	1/0 AWG	5/8"	6"	4"	4 1/2"	12	14	26	52	3'-6"	3'-4"	3'-2"	3'-4"
3	1000 1500	12'-0"	13'-6"	10"	6"	10"	1'-1"	8"	5'-5"	4	3'-8"	4	4'-2"	1/0 AWG	XX	9"	4 1/2"	4 1/2"	19	21	40	80	4'-8"	4'-6"	4'-3"	4'-6"
4	2000 2500 3750	13'-0"	15'-6"	10"	6"	12"	1'-1"	9"	6'-0"	4	4'-0"	4	4'-10"	1/0 AWG	XX	6"	3"	3"	29	26	55	110	5'-0"	5'-0"	4'-8"	5'-0"

TABLE - II

TRANSFORMER SIZE	TOTAL SECONDARY CONDUIT AREA "W"	"X"
150KVA	18"	22 1/2"
300/500750KVA	18"	25 1/2"
1000 & 1500KVA	18"	25 1/2"
2000,2500 & 3750KVA	18"	30 1/2"

TYPE I -- IS A RADIAL PRIMARY FEED TYPE TRANSFORMER
TYPE II -- IS A LOOP PRIMARY FEED TYPE TRANSFORMER



C C-105 SECTION
2-6" CONDUITS TO EXISTING TRANSFORMER/JUNCHTION BOX
NTS

REQUIREMENTS FOR THREE PHASE TRANSFORMER SLAB

1. THE CONTRACTOR MUST COORDINATE THE TRANSFORMER SELECTION SLAB SIZE, CONDUIT SIZE AND NUMBER, AND CONDUCTOR SIZE WITH POWER COMPANY.

2. AT LEAST TWO DAYS NOTICE SHALL BE PROVIDED TO POWER CO. PRIOR TO POURING OF CONCRETE TO ALLOW INSPECTION OF INSTALLATION BY POWER CO. REPRESENTATIVE.

3. CLEARANCES
A. A MINIMUM OF 6FT CLEARANCE SHALL BE PROVIDED AT THE FRONT OF THE TRANSFORMER SLAB.
B. CLEARANCES BETWEEN OIL FILLED EQUIPMENT AND BUILDINGS, STRUCTURES, ETC., MUST FOLLOW ALL APPLICABLE CODES. COORDINATE WITH POWER COMPANY.
C. WHEN METERING IS TO BE INSTALLED AT THE TRANSFORMER, A MINIMUM CLEARANCE OF 30 INCHES FROM THE SLAB SHALL BE PROVIDED ON THE SECONDARY SIDE.
D. CLEARANCE FROM CONDUITS TO OTHER UTILITIES, I.E. GAS, WATER, SEWER, ETC., MUST FOLLOW ALL APPLICABLE CODES.

4. FENCES
SEE POWER CO. ELECTRIC STANDARDS 10.2 FOR ADDITIONAL INFORMATION.
A. FENCES SHALL NOT BE INSTALLED ON THE TRANSFORMER SLAB.
B. DETAILS FOR PROPOSED FENCES, ACCESS GATES AND / OR REMOVABLE PANELS MUST BE COORDINATEED WITH POWER CO.

5. CONDUIT
SEE POWER CO. ELECTRIC STANDARDS 8.10 FOR ADDITIONAL INFORMATION.
A. CONDUIT ELBOWS SHALL HAVE A MINIMUM RADIUS OF 24" FOR 2 1/2" AND 3" CONDUIT AND A MINIMUM RADIUS OF 36" FOR CONDUIT LARGER THAN 3".
B. SECONDARY CONDUITS MUST BE INSTALLED WITHIN THE SECONDARY CONDUIT AREA DIMENSIONS GIVEN IN TABLE II. CONSULT THE ENGINEERING DEPARTMENT IF YOU EXCEED THE SECONDARY AREA DIMENSIONS.
C. A MAXIMUM OF EIGHT (8) CONDUITS MAY CONTAIN CABLES. ANY NUMBER OF CONDUITS EXCEEDING EIGHT (8) SHALL BE SPARE CONDUITS ONLY AND SHALL NOT BE FILLED WITH CABLES.

6. CONDUCTORS
SEE POWER CO. ELECTRIC STANDARDS 8.11 & 8.12 FOR ADDITIONAL INFORMATION.
A. A MAXIMUM OF EIGHT (8) CONDUCTORS PER PHASE MAY BE INSTALLED IN THE TRANSFORMER SECONDARY CABLE COMPARTMENT.
B. LENGTH OF WIRE, PROPER CONNECTION AND PHASE ROTATION IS THE RESPONSIBILITY OF CONTRACTOR.
C. NO EXTRA CABLE (SEE NATIONAL ELECTRIC CODE 310-4, PARALLEL CONDUCTORS) WILL BE ALLOWED IN SECONDARY COMPARTMENT.

7. TERMINATION'S
SEE POWER CO. ELECTRIC STANDARDS 8.12 FOR ADDITIONAL INFORMATION.
A. INSTALL NEMA STANDARD TERMINALS ON ALL CONDUCTORS.

8. CONCRETE
A. CONCRETE FOR SLAB TO BE 3000 PSI COMPRESSIVE STRENGHT.

9. SLAB FOUNDATION SUPPORT
SEE POWER CO. ELECTRIC STANDARDS 8.10 FOR ADDITIONAL INFORMATION.
A. THE FOUNDATION DESIGN MUST HAVE THE SIGNED APPROVAL OF THE POWER CO. REPRESENTATIVE.
B. ONE COPY OF THE PLAN FOR THE TRANSFORMER SLAB INSTALLATION AND FOUNDATION DESIGN MUST BE FILED WITH POWER CO. / ENGINEER OR REPRESENTATIVE PRIOR TO CONSTRUCTION OF SLAB.

10. TRAFFIC GUARDS (BOLLARDS)
A. TRAFFIC GUARDS (BOLLARDS WHEN REQUIRED BY POWER CO. SHALL BE 4 INCH GALVANIZED STEEL PIPE, CONCRETE FILLED, 6 FEET IN LENGHT AND INSERTED IN 5 INCH GALVANIZED STEEL PIPE SLEEVES INSTALLED IN THE TRANSFORMER SLAB, THE 4 INCH PIPE SHALL BE REMOVABLE.

11. NOTE:
A. ANY DEVIATION FROM THESE REQUIREMENTS MUST HAVE THE WRITTEN APPROVAL OF THE POWER COMPANY ENGINEERING DEPARTMENT.

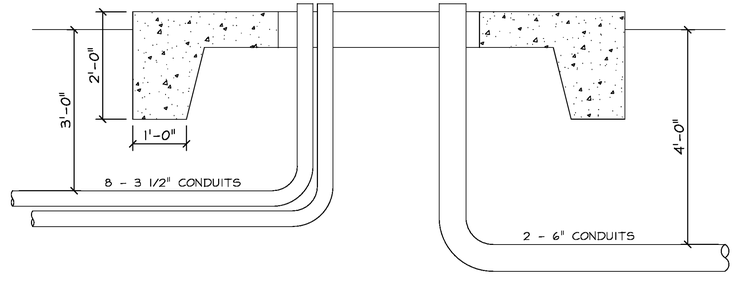
GENERAL REQUIREMENTS FOR THREE PHASE TRANSFORMER SLAB

1. CONTRACTOR TO INSTALL SLAB COMPLETE WITH ALL PRIMARY & SECONDARY CONDUIT RUNS, PRIMARY ON POWER CO. POLE, SECONDARY CONDUCTORS, SECONDARY TERMINALS ON SECONDARY CONDUCTORS IN PRIMARY CONDUIT UNLESS OTHERWISE SPECIFIED. CUSTOMER TO OWN ABOVE PARTS UNLESS OTHERW

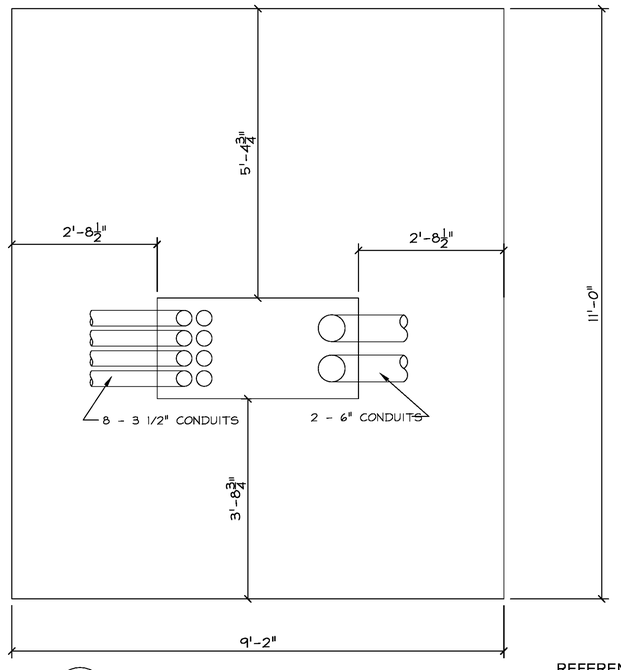
2. POWER CO. TO CONNECT SECONDARY TERMINALS TO TRANSFORMER UNLESS OTHERWISE SPECIFIED.

3. POINT OF SERVICE TO BE WHERE SECONDARY CONDUCTORS TERMINATE ON TRANSFORMER SECONDARY TERMINALS UNLESS OTHERWISE SPECIFIED.

4. POWER CO. TO INSTALL PAD MOUNT TRANSFORMER, ONE 3-PHASE UNDERGROUND PRIMARY CIRCUIT WITH NEUTRAL, PRIMARY POTHEADS ON POLE & METERING UNLESS OTHERWISE SPECIFIED.



SECTION - TRANSFORMER FOUNDATION
4" = 1'-0"



B C-105 PLAN - TRANSFORMER FOUNDATION
4" = 1'-0"

REFERENCE DRAWINGS:
C-106 UTILITY PLAN

SEALS:
STATE OF LOUISIANA
RALPH WAYNE McMICKLE
8201
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
9/15/10

NOTES:

NO	DATE	REVISION

DESIGN BY : CNH
DRAW BY : RSH

PROJECT NAME
HAMPTON INN
MAINE STREET
WEST MONROE, LOUISIANA

DRAWING TITLE
UTILITY
ELECTRICAL DETAILS

JOB NO. 2010-15
DATE : 07-08-10
SCALE : AS SHOWN
DRAWING NO. C-108
REV