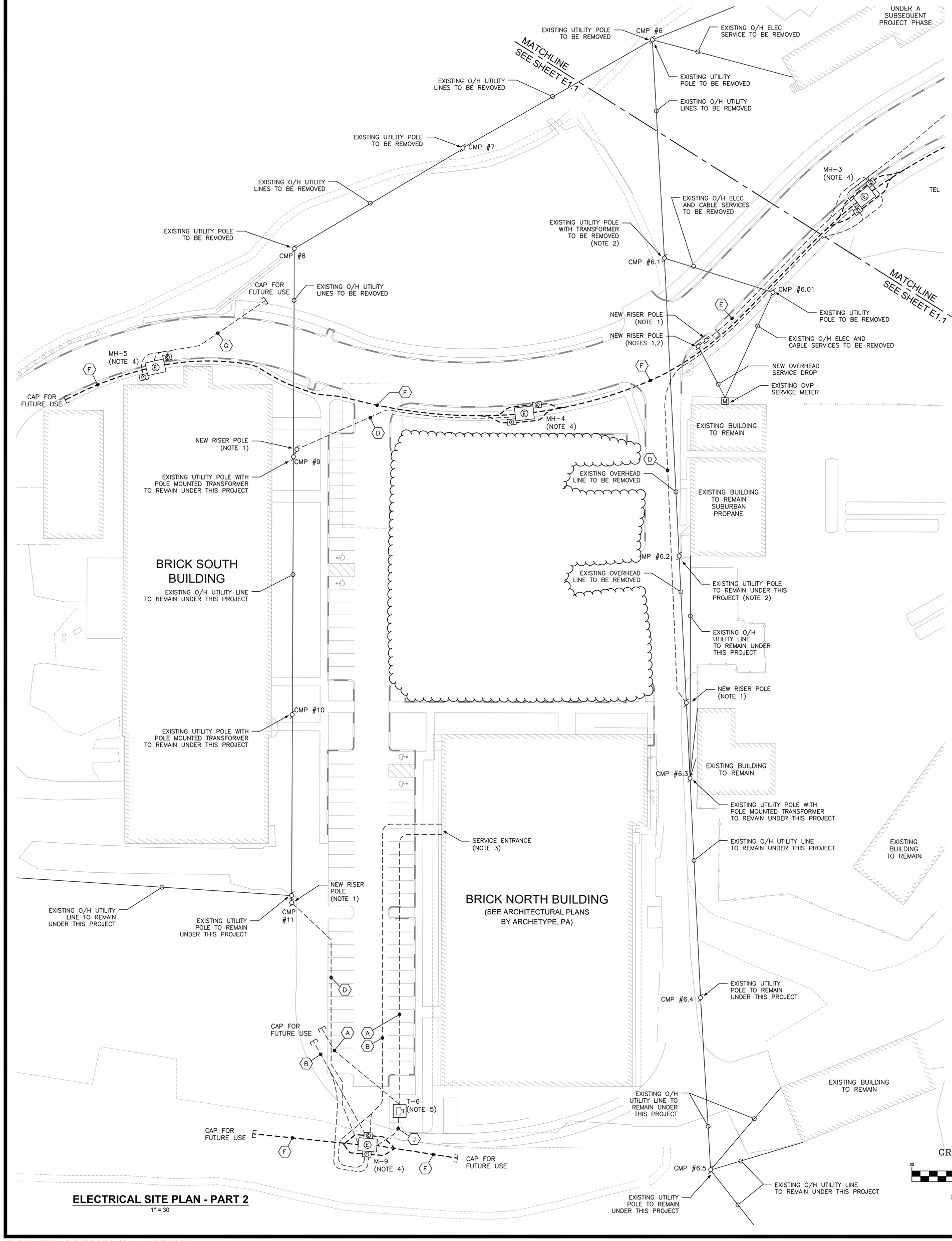


ELECTRICAL SITE PLAN - PART 2

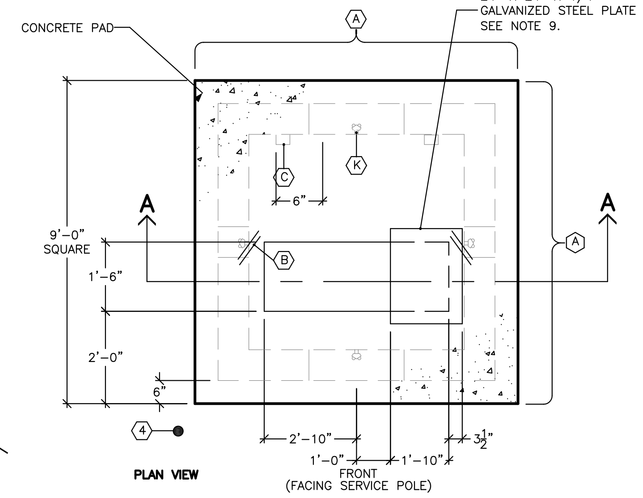
1" = 30'

GRAPHIC SCALE

30 0 15 30 60

(IN FEET)

1 inch = 30 ft.



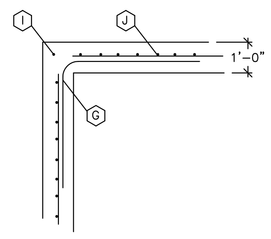
3-PHASE TRANSFORMER PAD DETAIL

NOT TO SCALE

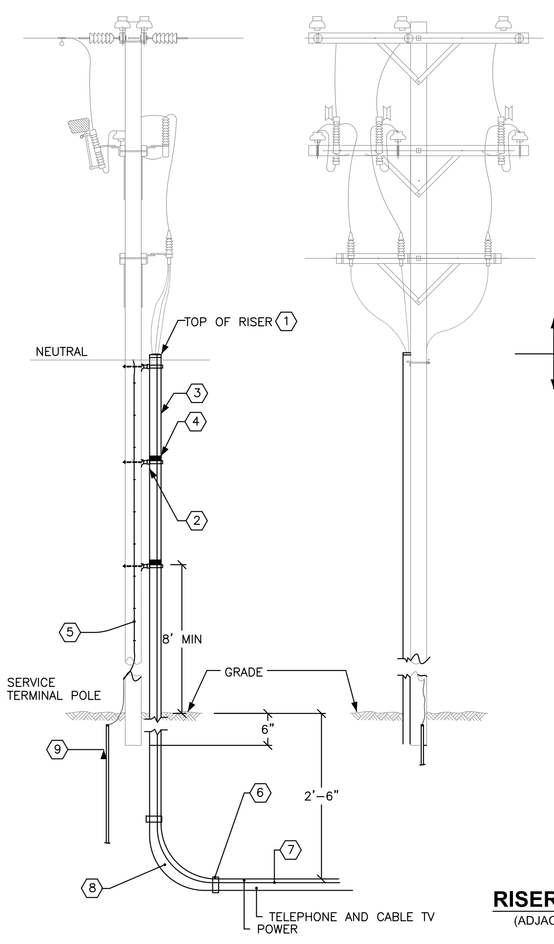
TRANSFORMER PAD DETAIL NOTES

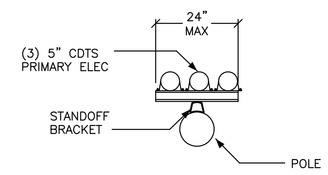
1. "FRONT" DENOTES THE SIDE ON WHICH THE ACCESS DOORS ARE LOCATED. THE CONCRETE BASE SHALL BE SET ON A SUITABLE GRAVEL BASE AND LOCATED SO THE FRONT IS ACCESSIBLE BY TRUCK AND SUITABLY PROTECTED FROM PLOW AND TRAFFIC DAMAGE.
2. FINISH GRADE SHALL BE GRADED IN SUCH A MANOR TO ALLOW SURFACE WATER TO FLOW AWAY FROM THE PAD.
3. PROVIDE 8" X 12" CABLE HOLES (BOND OUTS) 8" UP FROM THE WALL BASE. LOCATE ONE CABLE HOLE PER WALL, OR AS REQUIRED. LINE UP CABLE HOLES WITH TRENCHES.
4. PROVIDE A 3/4" X 96" GALVANIZED GROUND ROD SIX INCHES IN FRONT OF THE LEFT FRONT CORNER OF THE PAD. THE TOP OF THE GROUND ROD SHALL BE 6" BELOW FINAL GRADE.
5. A GROUND WIRE SHALL BE INSTALLED FROM THE GROUND ROD THROUGH THE CABLE HOLE AT THE BOTTOM OF THE PAD. ENOUGH GROUND WIRE SHALL BE PROVIDED SO THAT IT CAN BE INSTALLED THROUGH THE TWO GROUNDING LUGS AND CONNECTED TO THE NEUTRAL SPADE.
6. CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI @ 28 DAYS. FOR CAST-IN-PLACE, EARLY HIGH STRENGTH MAY BE USED WITH A MINIMUM OF SEVEN DAY CURE TIME.
7. REINFORCING STEEL SHALL HAVE FY = 60 KSI.
8. FOR PRECAST UNITS: THE PRECAST SUPPLIER SHALL PROVIDE LIFTING LUGS IN THE SLAB (PAD) AND BASE; THE PRECAST SUPPLIER SHALL ASSEMBLE THE SLAB TO THE BASE PRIOR TO SHIPPING TO THE SITE TO ENSURE THAT THE SLAB AND BASE FIT PROPERLY (WITH NO ROCKING OF THE SLAB EVIDENT).
9. USE A 24" X 24" X 1/4" GALVANIZED STEEL PLATE TO COVER A PORTION OF THE CABLE HOLE WHEN THE TRANSFORMER DOES NOT COMPLETELY COVER IT. CUT THE STEEL PLATE TO FIT, IF NECESSARY.

A. 9 - #5 REBAR EVENLY SPACED EACH WAY TOP TO BOTTOM.
B. 2 - #4 CORNER DIAGONAL REBAR 2'- 0" LONG TOP AND BOTTOM.
C. 4" X 4" X 1/2" ANGLE 6" LONG WITH (2) 3/4" DIAMETER EXPANSION ANCHORS TYPICAL AT 4 PLACES (TWO PIECE PRECAST ONLY).
D. CHAMFER TYPICAL.
E. 2" CONCRETE COVER OVER TOP REBAR.
F. 3" CONCRETE COVER OVER BOTTOM REBAR.
G. #5 L-BAR @ 12" (CAST-IN-PLACE ONLY).
H. 24" X 24" X 1/4" GALVANIZED STEEL PLATE. S/C #62-1795
I. 6 X 6 WWM @ CENTER OF COVER.
J. #5 REBAR ON 12" CENTERS.
K. PULLING EYE INSERT, FOR USE WITH 3/4" NATIONAL COURSE THREAD EYE-BOLT, (RICHMOND LCB-1 OR EQUIVALENT). LOCATED OPPOSITE EACH CABLE HOLE AND 2' (TWO FEET) FROM BOTTOM.
L. ALL REBAR ENDS TO BE COVERED BY 1" OF CONCRETE, MINIMUM.



BASE: TYPICAL CORNER VIEW





WORK BY UTILITY CO.'S

WORK BY ELEC. CONTRACTOR

NOTES:
1. SEAL TOP OF CONDUIT WITH POLYURETHANE SEALER. TOP OF CONDUIT SHALL HAVE A DOUBLE NON-THREADED PLASTIC COUPLING. TOP OF CONDUIT SHALL EXTEND 4" ABOVE PRIMARY NEUTRAL.
2. CONDUIT STANDOFF BRACKETS - CONDUIT SECTION USED WITH STANDOFF BRACKETS SHALL BE METAL CONDUIT ONLY. TOP CONDUIT SECTIONS LONGER THAN 24" MUST BE SUPPORTED. LOWEST BRACKET SHALL BE A MINIMUM OF 8FT ABOVE FINISHED GRADE. ONE BRACKET SHALL BE USED TO SUPPORT EACH 10FT SECTION OF CONDUIT WITH THE BRACKET PLACED JUST BELOW THE RISER CONDUIT COUPLING. A BRACKET WILL ALSO BE PLACED TO HOLD THE TOP OF THE RISE CONDUIT.
3. RIGID STEEL GALVANIZED CONDUIT.
4. STEEL CONDUIT COUPLING.
5. CONDUIT GROUNDING CONNECTOR.
6. PVC TO STEEL CONDUIT COUPLING.
7. PVC SCHEDULE 40 CONDUIT. COVER WITH CONCRETE WHERE PASSING UNDER ROADWAYS OR DRIVES.
8. LONG SWEEP CONDUIT ELBOW.
9. 3/4" DIA BY 10FT LONG COPPER CLAD GROUND ROD.

RISER POLE DETAIL

(ADJACENT TO CMP POLE #3)
NOT TO SCALE

NOTES:
1. SEE SHEET E1.1 FOR NOTES

PRELIMINARY

Bartlett Design
LIGHTING & ELECTRICAL ENGINEERING
942 WASHINGTON STREET, BATH, ME 04530
TEL (207) 443-5447 FAX (207) 443-5560

REV	DATE	DESCRIPTION
2	07.22.14	SUBMITTED FOR UTILITY COMPANY REVIEW
1	07.01.14	SUBMITTED FOR CLIENT REVIEW

REVISIONS

STATE OF MAINE LAWRENCE E. BARTLETT No. 7928 LICENSED PROFESSIONAL ENGINEER
Lawrence E. Bartlett 7/22/14
L. BARTLETT
LIC. #7928

PROJECT
BRICK NORTH BUILDING AT THE FOREFRONT AT THOMPSON'S POINT

SHEET TITLE
ELECTRICAL SITE PLAN PART 2

CLIENT
FOREFRONT PARTNERS I, LP

FAY, SPOFFORD & THORNDIKE
ENGINEERS · PLANNERS · SCIENTISTS
778 MAIN ST, SUITE 8, SOUTH PORTLAND, ME 04106

DRAWN:	JLC	DATE:	07/01/2014
DESIGNED:	LEB	SCALE:	1" = 30'-0"
CHECKED:	LEB	JOB NO.	2982.05
FILE NAME:			
SHEET	E1.2		