



SEE NOTES FOR CONSTRUCTION ON REVERSE SIDE

ORG. BY JF
09/09/86
APPROVED

**PRECAST CONCRETE TRANSFORMER PAD
3Ø 75 TO 2500 KVA**

GROTON UTILITIES

CONSTRUCTION STANDARD

E 12.300

6

NOTES FOR PRECAST CONCRETE TRANSFORMER PAD

1. Minimum distance to any structure is 48"
(Ground must be level and unobstructed for 48")
2. Final 28 day concrete - 4000 PSI Entrained Air 6-9 percent
3. Steel reinforcement as per ASTM-A615-1987 A, Grade 40. All concrete and reinforcing is in accordance with ACI 318 - Latest Revision.
4. Top of concrete pad must be level.
5. Conduit size and location to be determined by Groton Utilities. No conduit shall be installed less than 6" from a corner.
6. Steel conduits shall extend **4 to 6"** inside pad and be fitted with grounding bushings. Non-metallic conduits shall extend 3" inside and be fitted with bell ends. All conduit openings shall be tightly sealed after installation of conduits. Bond all galvanized steel conduits inside pad to ground ring with a minimum of #6 AWG CU bare wire.
7. PRIOR TO BACKFILLING, PADS ARE TO BE INSPECTED BY GROTON UTILITIES.
8. Ground ring is a minimum of #1/0 cu. bare buried 30" below ground line. Grounding connections shall be cadweld, compression, or **irreversible compression-type** connections. Leave a 10' tail inside pad for bonding of transformer. The communications bonding by others shall be to ground ring outside transformer pad.
9. 5" dia x 6' long concrete filled steel protection posts, located 6" from corner of pad, to be used when in paved area or otherwise required. Ground posts to grounding ring.
10. Grading must be completed to finished grade before any Groton Utilities equipment can be installed.
11. Electric contractor to verify size of actual transformer connection compartment and modify pad opening as required.

12. LIST OF APPROVED MATERIALS

<u>ITEM</u>	<u>CAT. #</u>	<u>MANUFACTURER</u> (See List)
Precast concrete pad UP TO 300 kVA	P-013	A, B, C, D
Precast concrete pad OVER 300 kVA	P-015	A, B, C, D

13. LIST OF SUPPLIERS

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| A. Rotondo and Sons, Inc.
151 Old Farms Road
Avon, CT. 06001
(860) 673-3291 | C. Elmcap Industries
111 South Street
West Hartford, CT 06110-1928
(860) 953-1060 |
| B. Arrow Concrete Products, Inc.
560 Salmon Brook Street
Granby, CT. 06035
(860) 653-5063 | D. United Concrete Products, Inc.
173 Church Street
Yalesville, CT 06492-2267
(203) 269-3119 |

Submit detail drawings, for approval for pads by other manufacturer.