CAROLINA PRECAST
Setting the Standard

OTHER PRODUCTS

P. O. Box 1061
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Other Products

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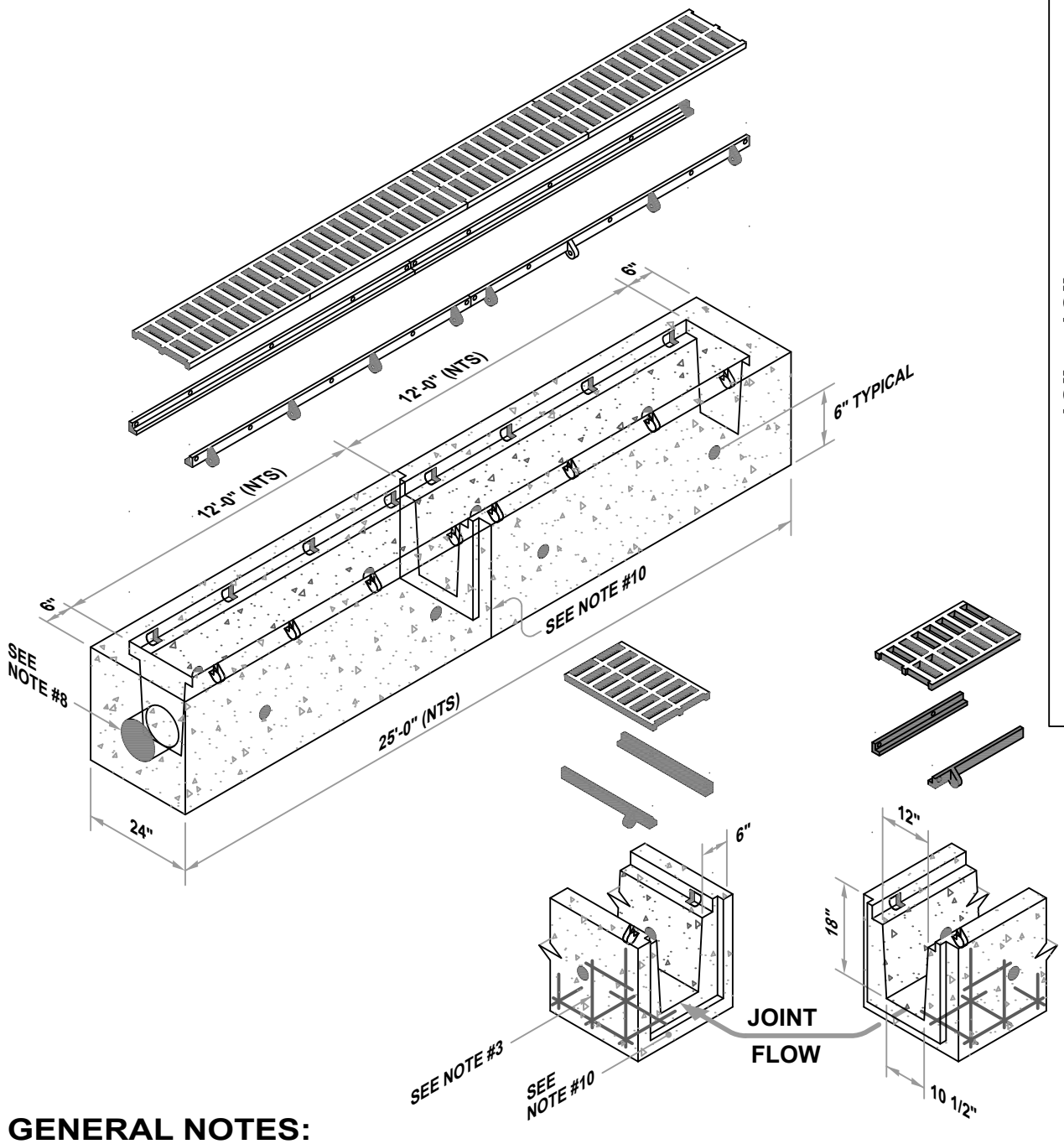
DATE: FEB. 15, 1999

DRAWING No: TD-1218

12" x 18" TRENCH DRAIN



GENERAL NOTES:

1. STRUCTURAL DESIGN SPECIFICATIONS CONFORM TO ASTM C913 FOR "PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES."
2. CONCRETE COMPRESSIVE STRENGTH 4,000 PSI MINIMUM.
3. STEEL REINFORCING DESIGN TO CONFORM TO THE REQUIREMENTS OF ASTM C890 SPECIFICATIONS FOR "STRUCTURAL DESIGN LOADING FOR WATER AND WASTEWATER STRUCTURES" AND SHALL UTILIZE GRADE 60 RE-BARS CONFORMING TO THE REQUIREMENTS OF ASTM A615 OR WWF CONFORMING TO THE REQUIREMENTS OF ASTM A185 OR BOTH.
4. ADDITIONAL REINFORCING AT OPENINGS.
5. DESIGNED FOR H-20-44 LOADING.
6. STEPS NOT REQUIRED.
7. TOTAL LENGTH PER JOB SPECIFICATIONS.
8. 8" DIAMETER OUTLET. PIPE TO BE INSTALLED BY CONTRACTOR AS PER NCDOT REQUIREMENTS FOR MORTAR JOINT CONNECTIONS.
9. FRAME & GRATE TO MEET NCDOT STANDARDS, SUPPLIED BY EITHER C.P.C. OR CUSTOMER.
10. JOINTS TO BE SEALED WITH PREFORMED BUTYL RUBBER JOINT SEALANT CONFORMING TO THE REQUIREMENTS OF ASTM C990, OR MORTAR AS PER NCDOT REQUIREMENTS, OR BOTH.

DETAILS PROVIDED BY APPIAN CONSULTING ENGINEERS, P.A.

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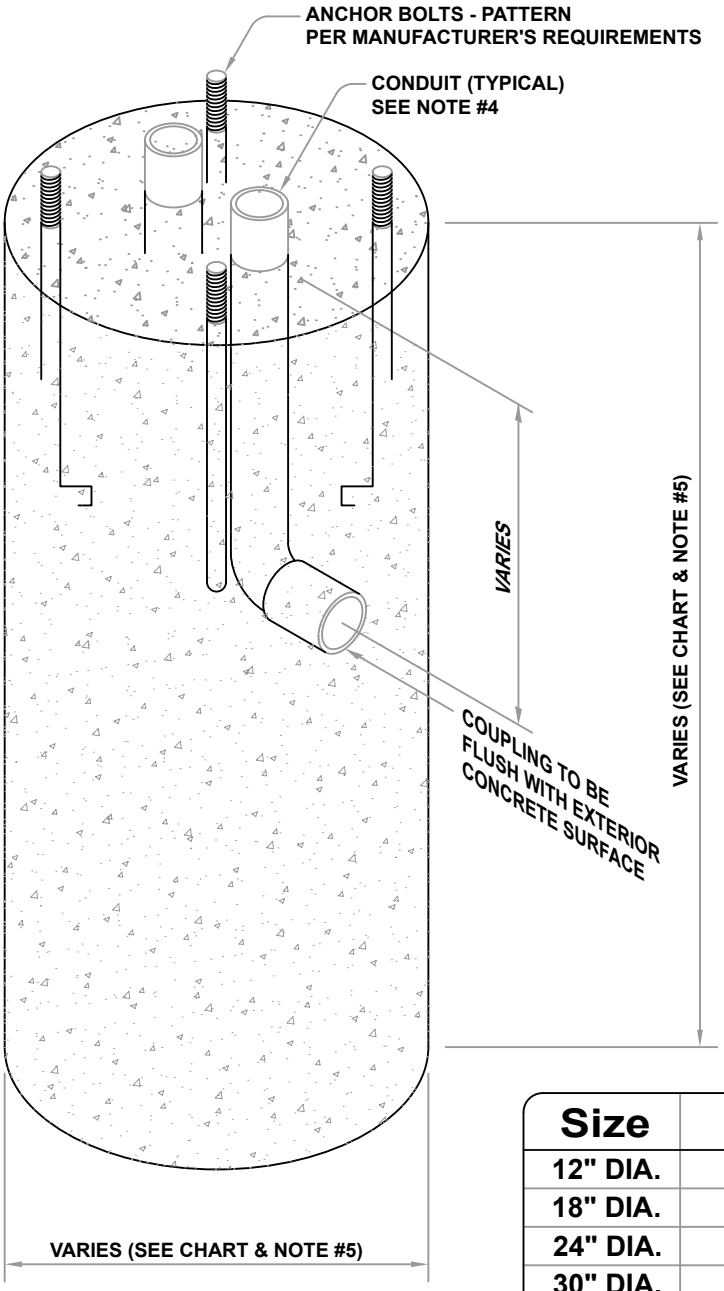
DATE: FEB. 15, 1999

DRAWING No: PB-ROUND

POLE BASE ROUND



Size	Weight / Vert Ft.
12" DIA.	120 LBS. / VFT.
18" DIA.	275 LBS. / VFT.
24" DIA.	475 LBS. / VFT.
30" DIA.	750 LBS. / VFT.
36" DIA.	1,050 LBS. / VFT.

GENERAL NOTES:

1. DESIGN SPECIFICATIONS CONFORM TO ASTM C858 SPECIFICATIONS FOR "UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURE".
2. CONCRETE COMPRESSIVE STRENGTH 4,000 PSI MINIMUM.
3. STEEL REINFORCING DESIGN TO CONFORM TO THE REQUIREMENTS OF ASTM C857 SPECIFICATIONS FOR "STRUCTURAL DESIGN FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES" AND SHALL UTILIZE GRADE 60 RE-BARS CONFORMING TO THE REQUIREMENTS OF ASTM A615 OR WWF CONFORMING TO THE REQUIREMENTS OF ASTM A185 OR BOTH IF REQUIRED.
4. GROUND WIRE, ANCHOR BOLTS, COUPLINGS, AND CONDUIT FURNISHED BY CONTRACTOR.
5. HEIGHT & WIDTH VARIES PER JOB REQUIREMENTS. SEE WEIGHT PER DIAMETER / VERTICAL FOOT IN CHART.

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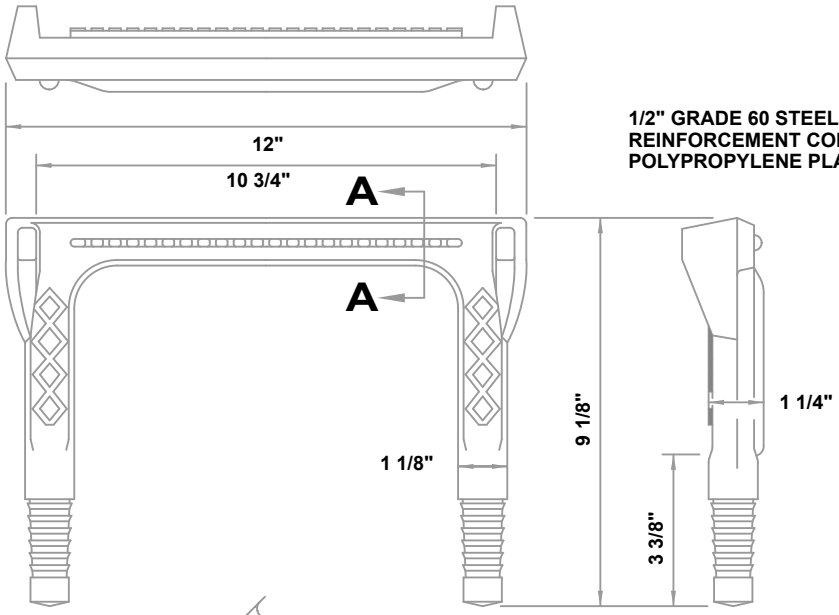
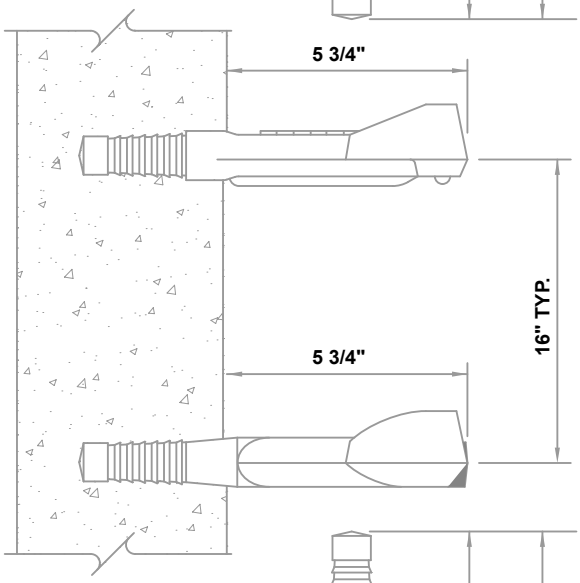
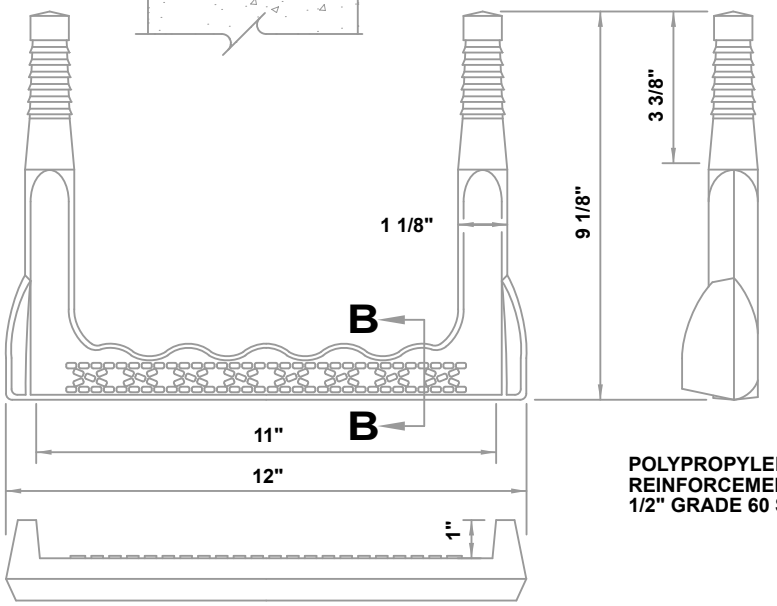
DATE: FEB. 15, 1999

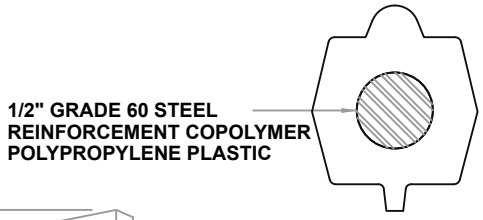
DRAWING No: MH-STEP

TYPICAL MANHOLE STEP DETAIL







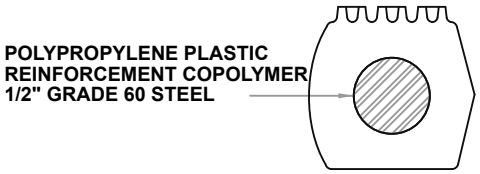


SECTION A-A

GENERAL NOTES:

1. STEP DESIGN, INSTALLATION, AND MATERIAL SHALL MEET THE REQUIREMENTS OF ASTM C478 AND NCDOT.
2. PLASTIC MATERIAL CONSISTS OF SUPER HIGH IMPACT RESISTANT COPOLYMER POLYPROPYLENE AND CONFORM TO SPECIFIC REQUIREMENTS AS DETAILED ASTM D4101.
3. REINFORCING STEEL SHALL BE 1/2" REBAR, GRADE 60 AND MEET THE REQUIREMENTS OF ASTM A 615.
4. STEP WIDTH AND SPACING ARE CONSISTANT WITH THE LATEST REQUIREMENTS OF OSHA.
5. MANUFACTURERS LITERATURE AVAILABLE UPON REQUEST.

SECTION B-B



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