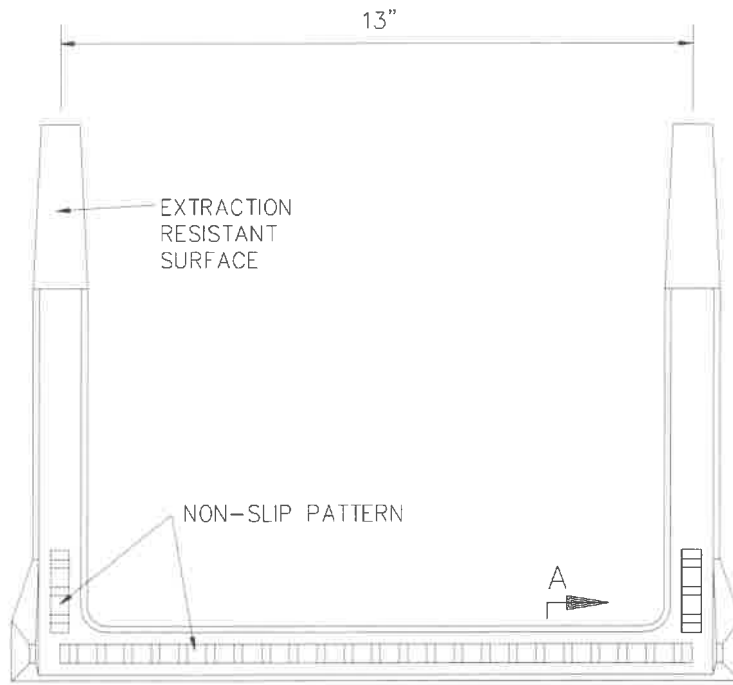
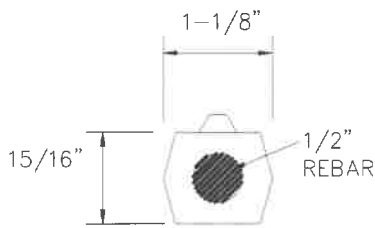


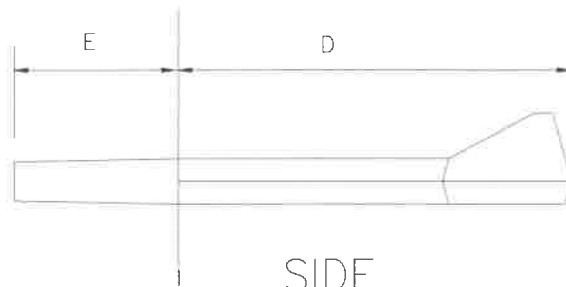
FRONT



TOP



SECTION A-A



SIDE

POLYPROPYLENE-PLASTIC STEP



REVISIONS	
No.	DATE

[Signature]
CITY ENGINEER

9/27/21
DATE

[Signature]
DIRECTOR OF PUBLIC WORKS

10/12/23
DATE

STANDARD DETAIL
636
SHEET 1 OF 2

DEPARTMENT OF PUBLIC WORKS

NOTES:

1. STEPS SHALL BE STEEL-REINFORCED COPOLYMER POLYPROPYLENE PLASTIC CONFORMING TO:
 - (A) ASTM D478 AND C497, EXCEPT THAT THE MINIMUM HORIZONTAL PULLOUT LOAD SHALL BE 1,500 LBS.
 - (B) ASTM A615 GRADE 60 DEFORMED REINFORCING STEEL BAR.
 - (C) CALIFORNIA CODE OF REGULATIONS TITLE 8, GENERAL INDUSTRY SAFETY ORDERS.
2. STEPS SHALL BE CAPABLE OF WITHSTANDING AN IMPACT LOAD OF 70 FT-LBS AT 20°F WITHOUT CRACKING OR FRACTURING.
3. THE MINIMUM TOTAL CROSS-SECTIONAL AREA OF THE EXPOSED PORTION OF THE STEP, INCLUDING THE DEFORMED STEEL BAR AND EXCLUDING THE NON-SLIP TREAD SURFACE, SHALL BE 1.0 SQ IN
4. THE ENTIRE POLYPROPYLENE PLASTIC MATERIAL SURROUNDING THE REINFORCING STEEL BAR SHALL BE CAST MONOLITHICALLY. MINIMUM COVER SHALL BE 3/16".
5. A CERTIFICATE OF COMPLIANCE CONFORMING TO SSPWC 4-5 SHALL BE SUBMITTED TO THE ENGINEER CONCURRENTLY WITH A REQUEST FOR APPROVAL. MATERIAL TEST DATA SHALL BE INCLUDED.
6. E = 3-3/8". FOR VAULTS AND MANHOLES, D = 5-1/2". FOR OTHER INSTALLATIONS, D = 7-1/2". THESE DIMENSIONS MAY BE PLUS OR MINUS 1/4".
7. STEPS SHALL BE EVENLY SPACED. MAXIMUM VERTICAL SPACING OF STEPS SHALL BE 16", WITH THE BOTTOM STEP A MAXIMUM OF 2' ABOVE FLOOR OR SHELF.
8. IF TAPERED STEPS ARE INSTALLED INTO STRAIGHT DRILLED OR FORMED HOLES, APPROVED NON-SHRINK GROUT SHALL BE INJECTED INTO THE HOLE PRIOR TO INSTALLATION. HOLES SHALL BE STRAIGHT AND PARALLEL. EXCEPT AS OTHERWISE NOTED, STEPS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED PROCEDURES.
9. A DROP STEP WITH A MINIMUM DROP OF 3/4" MAY BE USED. THE DROP STEP SHALL MEET ALL OTHER CRITERIA OF THIS PLAN.

POLYPROPYLENE-PLASTIC STEP



REVISIONS			
No.	DATE	No.	DATE

[Signature]
 CITY ENGINEER

9/27/23
 DATE

[Signature]
 DIRECTOR OF PUBLIC WORKS

10/24/23
 DATE

STANDARD DETAIL
636
 SHEET 2 OF 2

DEPARTMENT OF PUBLIC WORKS