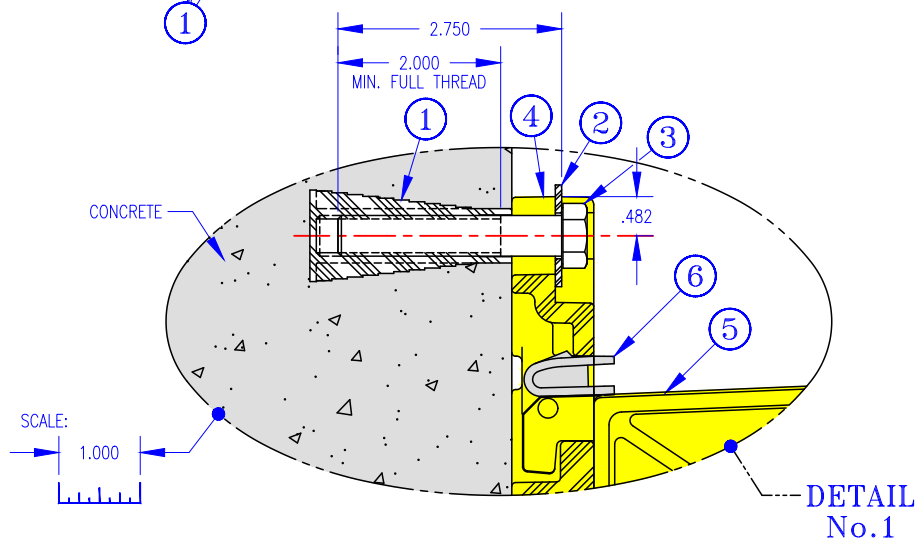
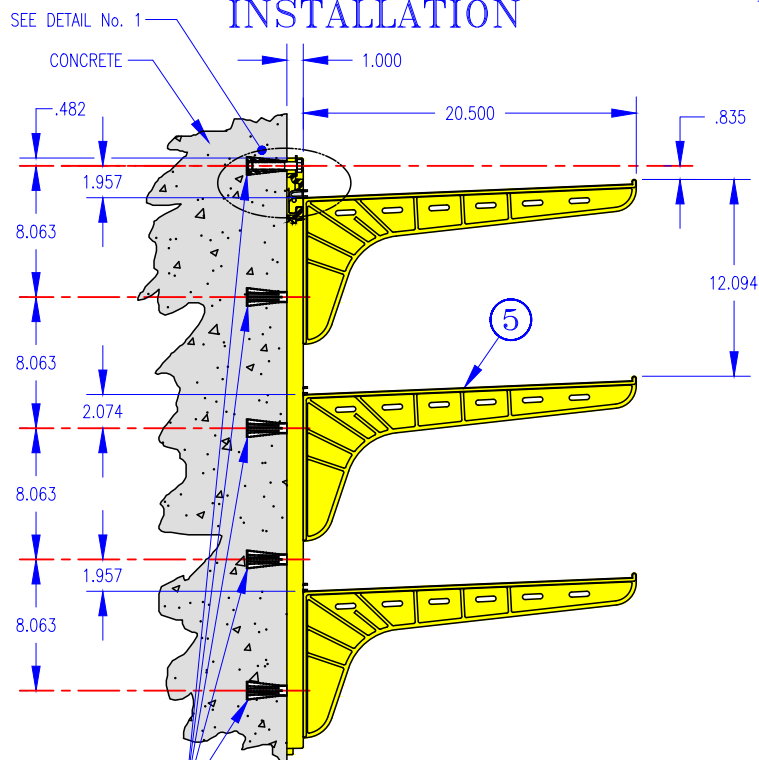
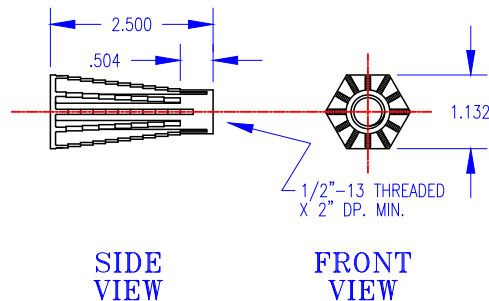


# FNMA-16 1/2"-13 X 2-1/2" LG. CAST-IN-PLACE INSERT INSTALLATION



## FNMA-16 1/2"-13 X 2-1/2" LG. CAST-IN-PLACE INSERT PART DIMENSIONS SCALE: 4 TO 1



| BILL OF MATERIAL |                |                                                                             |                   |
|------------------|----------------|-----------------------------------------------------------------------------|-------------------|
| ITEM NUMBER      | CATALOG NUMBER | DESCRIPTION                                                                 | QUANTITY REQUIRED |
| ①                | FNMA-16        | 1/2"-13 CAST-IN-PLACE INSERT<br>Material: POLYIMIDE (Non-metallic)          | 5                 |
| ②                | FFW316-18-40   | FLAT WASHER<br>ID=.562, OD=1.250, THK=.078<br>Material: 316 STAINLESS STEEL | 5                 |
| ③                | FHC316-16-088  | 1/2"-13 X 2-3/4" LG.<br>HEX HEAD CAP SCREW<br>Material: 316 STAINLESS STEEL | 5                 |
| ④                | CR36-B         | CR36-B STANCHION<br>Material: 50% Glass Reinforced Nylon                    | 1                 |
| ⑤                | RA20LP         | RA20LP RACK ARM<br>Material: 50% Glass Reinforced Nylon                     | 3                 |
| ⑥                | HDL            | HDL LOCK (OPTIONAL)<br>Material: Polycarbonate                              | 1<br>PER ARM      |

### GENERAL INSTALLATION GUIDELINES:

1. THE INSERT ARRANGEMENT SHOWN ON THIS INSTALLATION DRAWING ALLOWS FOR COMPLETE VARIABILITY OF ARM SIZE & LOCATION OF ARM ON STANCHION.
2. SECURE INSERTS TO CONCRETE TO FORM & LOCATION SHOWN IN THE DRAWING AT LEFT.
3. IT IS RECOMMENDED THAT CONCRETE BE VIBRATED SO AS TO INSURE THAT THE CONCRETE COMPLETELY ENCASES THE INSERTS.
4. AFTER CONCRETE HAS CURED, REMOVE FORM.
5. INSTALL THE FLAT WASHERS IN THE STANCHION AND TIGHTEN THE CAP SCREWS JUST ENOUGH TO ATTAIN A SNUG FIT. AVOID HIGH SCREW TORQUE WHICH INDUCES COMPRESSIVE STRESS.
6. AFTER INSERTING EACH ARM IN THE STANCHION, TAP THE ARM DOWN WITH A LIGHT Mallet BLOW. THE LIGHT Mallet BLOW WILL FULLY SEAT AND LOCK THE ARM IN PLACE.
7. **IT IS IMPERATIVE TO INSTALL A FASTENER SET IN EVERY ELONGATED STANCHION HOLE.** THE SCREWS MUST BE 2-3/4" LONG WITH A SPECIAL 2" MINIMUM FULL THREAD. THIS PROCEDURE MUST BE FOLLOWED TO ATTAIN THE RATED CARRYING CAPACITY FOR THE HEAVY DUTY CABLE RACK.
8. INSTALL OPTIONAL HDL LOCK BY PLACING THE LOCK ON THE ARM WITH THE LOCKING BARBS UP. PUSH THE LOCK INTO THE RECTANGULAR HOLE IN THE STANCHION. WHEN THE STOP FLANGES ON THE LOCK HIT THE STANCHION, THE LOCK WILL CLICK INTO PLACE. SEE DETAIL No.1 AT LEFT.

### NOTES

1. SEE UDI "TECHNICAL DATA" CATALOG SHEET (FORM 111391AE) FOR LOAD CARRYING CAPACITY.
2. SEE UDI "GUIDE SPECIFICATION" (FORM 123191AK) FOR GENERAL SPECIFICATIONS ON THE HEAVY DUTY NON-METALLIC CABLE RACK.

|                                                                                                                                                                                            |                        |                         |                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------|-------------------------------------------------------------------------------------------------|
| HEAVY DUTY NON-METALLIC CABLE RACK<br>Installation Details For FNMA-16 1/2"-13 CAST-IN-PLACE INSERT,<br>Featuring 5 Ea. FNMA-16 & 3 ea. RA20LP RACK ARMS Mounted on 1 Ea. CR36-B Stanchion |                        |                         |                                                                                                 |
| SCALE: See At Left                                                                                                                                                                         | DESIGNED BY: Don McCoy | DETAILED BY: S Wendland | CHECKED BY: Don McCoy                                                                           |
| DATE: 7-16-24                                                                                                                                                                              | APPROVED BY:           |                         | REVISION:  |
| 1st Designed For TYPICAL INSTALLATION OF CABLE RACKS                                                                                                                                       |                        |                         |                                                                                                 |
| DRAWING NUMBER:<br>UNDERGROUND DEVICES, INC.<br>NORTHBROOK, ILLINOIS 60062 - PHONE: (847) 205-9000                                                                                         |                        |                         | 90-14392<br>PAGE 1 OF 1                                                                         |

