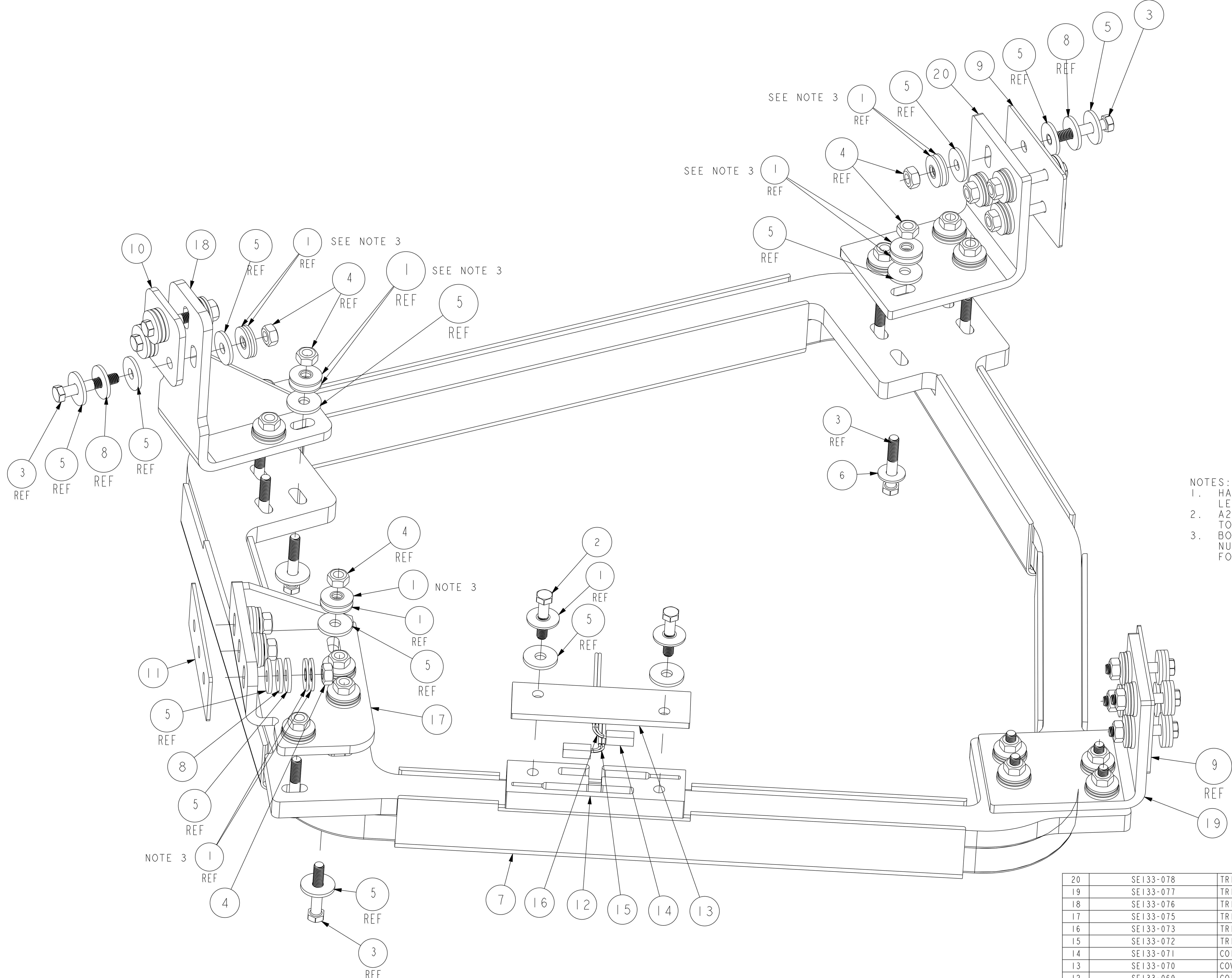


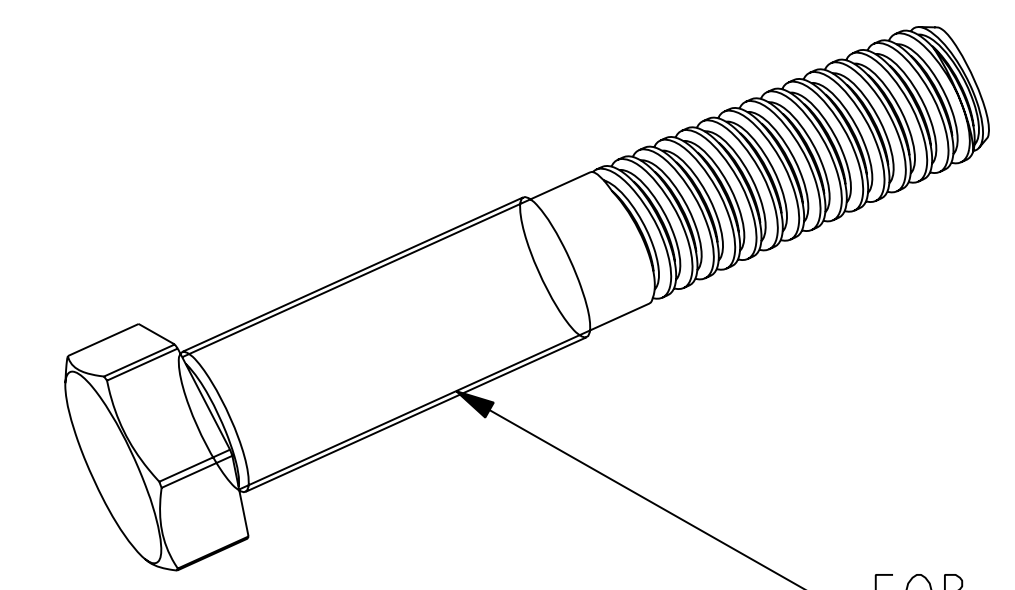
|     |          |    |    |     |          |      |
|-----|----------|----|----|-----|----------|------|
| NO. | REVISION | BY | CH | SUP | APPROVED | DATE |
|     |          |    |    |     |          |      |



- NOTES:
1. HARDWARE TO EXHIBITE MAGNETIC PERMEABILITY LESS THAN 1.05
  2. A286 MATERIAL YIELD GREATER THAN OR EQUAL TO 180 KSI FOR BOLTS.
  3. BOTH SPRING WASHERS TO BE CUPPED CONVEXED UNDER NUTS "C" AND TIGHTENED TO FLAT FOR MINIMUM PRE LOAD FORCE OF 5,800 LBS.

RELEASED FOR FABRICATION / INSTALLATION  
PPPL Drafting

| PART NO. | DRAWING NO   | NOMENCLATURE OR DESCRIPTION                          | MATERIAL               | QTY | RECD |
|----------|--------------|--|------------------------|-----|------|
| 20       | SE133-078    | TRIM COIL BRACKET #2, LOWER RIGHT                    | INCONEL 625            | 1   |      |
| 19       | SE133-077    | TRIM COIL BRACKET #2, LOWER LEFT                     | INCONEL 625            | 1   |      |
| 18       | SE133-076    | TRIM COIL BRACKET #2, UPPER RIGHT                    | INCONEL 625            | 1   |      |
| 17       | SE133-075    | TRIM COIL BRACKET #2, UPPER LEFT                     | INCONEL 625            | 1   |      |
| 16       | SE133-073    | TRIM COIL WIRE #2                                    | 12 GAUGE WIRE          | 1   |      |
| 15       | SE133-072    | TRIM COIL WIRE #1                                    | 12 GAUGE WIRE          | 1   |      |
| 14       | SE133-071    | COIL TO WIRE CONNECTOR                               | SILICON BRONZE (DURUM) | 2   |      |
| 13       | SE133-070    | COVER, COIL CONNECTION HOUSING                       | G10                    | 1   |      |
| 12       | SE133-069    | COIL CONNECTION HOUSING                              | G10                    | 1   |      |
| 11       | SE133-068-5  | INSULATOR #5   | G10                    | 1   |      |
| 10       | SE133-068-4  | INSULATOR #4   | G10                    | 1   |      |
| 9        | SE133-068-3  | INSULATOR #3   | G10                    | 2   |      |
| 8        | SE133-068-1  | INSULATOR #1   | G10                    | 14  |      |
| 7        | SE133-064-01 | TRIM COIL, #2 WELDMENT                               | SEE DETAILS            | 1   |      |
| 6        | NS151378     | 3/8 FLAT WASHER, STANDARD                            | ALLOY A-286            | 8   |      |
| 5        | NS151377     | 3/8 FLAT WASHER, HEAVY                               | ALLOY A-286            | 63  |      |
| 4        | NS150280     | 3/8-16 UNC HEAVY HEX NUT                             | ALLOY A-286            | 29  |      |
| 3        | NS150176     | 3/8-16 UNC x 2 1/4 BOLT, HEX HEAD                    | ALLOY A-286            | 26  |      |
| 2        | NS150175     | 3/8-16 UNC x 1 3/4 BOLT, HEX HEAD                    | ALLOY A-286            | 2   |      |
| 1        | 6EH89718.    | 3/8 DISC SPRING 2900 LBS (P max) SOLON MANUFACTURING | INCONEL                | 60  |      |



FOR ALL BOLTS ATTACHED TO MOUNTING BRACKETS W/ G10 INSULATOR. ADD TEFLON TAPE TO INSULATE BOLT FROM TOUCHING BRACKETS.

RELEASE LEVEL: Fabrication  
DWG VERSION NO: 35

|  |   |   |        |
|--|---|---|--------|
| COMPUTER GENERATED DRAWING CHANGES NOT PERMITTED | CENTRAL FILES: UNLESS OTHERWISE SPECIFIED | PRINCETON PLASMA PHYSICS LABORATORY     |        |
| Pro E  | DIMENSIONS ARE IN INCHES MACHINE SURFACES | NATIONAL COMPACT STELLARATOR EXPERIMENT |        |
| DO NOT VERIFY INFORMATION BY SCALING DRAWING     | BREAK SHARP EDGES .005/.020               | STELLARATOR CORE TRIM COILS             |        |
| WEIGHT   | TOLERANCES NON-CUMULATIVE                 | DSN: R. UPKAVAGE                        | 6/9/08 |
| 185.3 lbs  | DECIMAL-INCH FRACTIONS                    | CHK: M. KALISH                          | 6/9/08 |
| MODEL NAME                                       | NEXT ASSEMBLY                             | ENGR: M. KALISH                         | 6/9/08 |
| SE133-059  |   | SUPV: J. SIEGEL                         | 6/9/08 |
| WELDING ENGINEER                                 |   |   |        |

NCSX-SE133-059

K