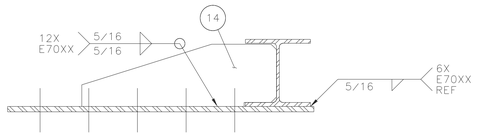
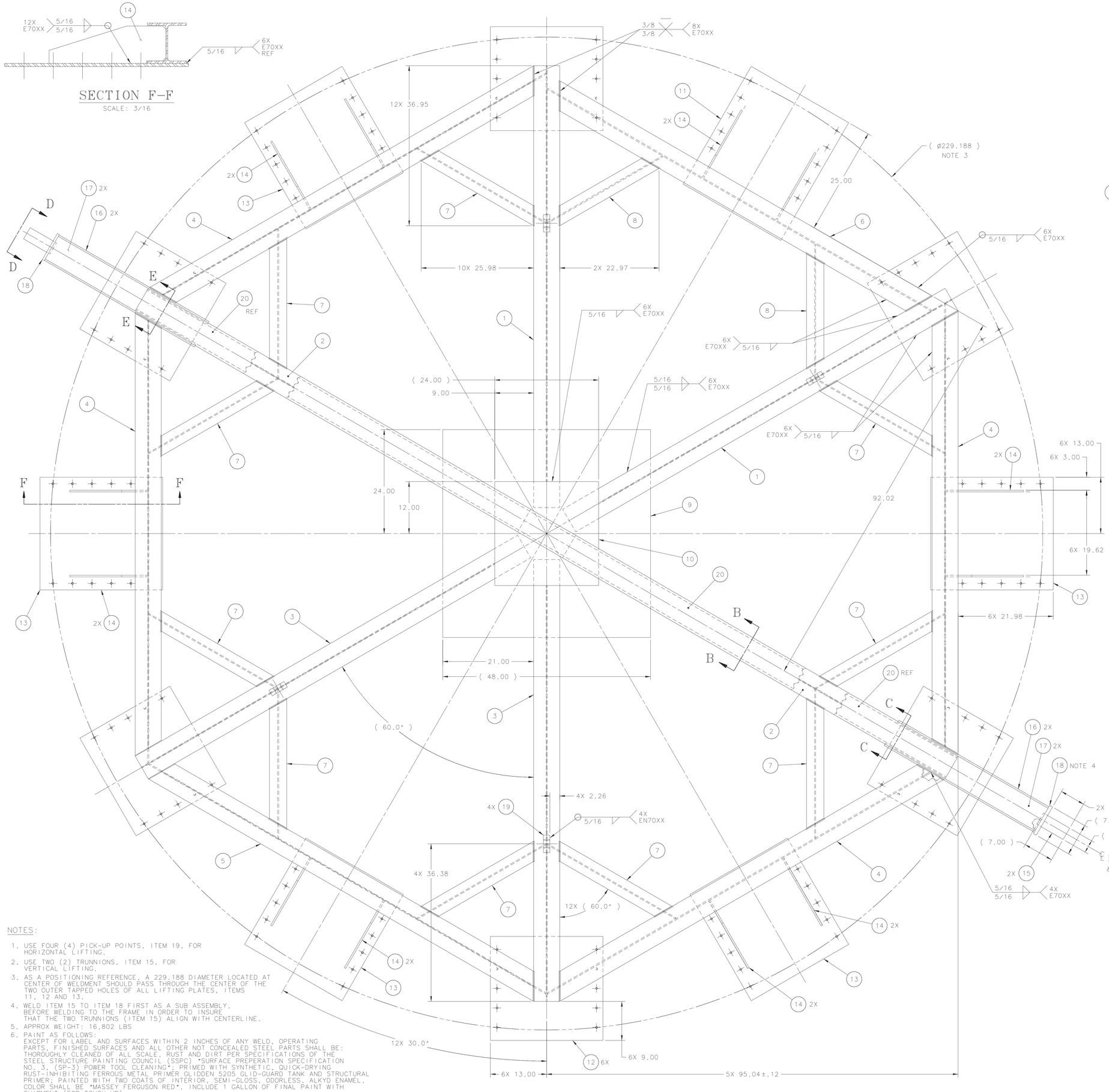
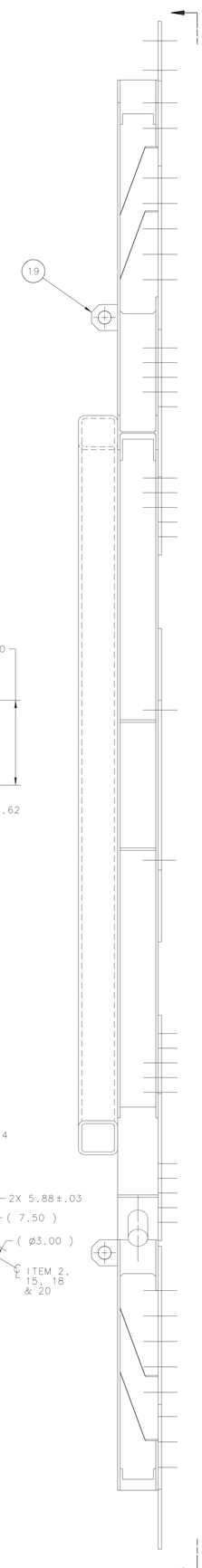
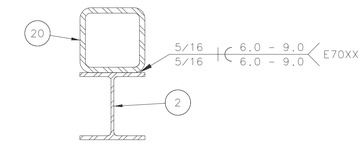
| REV | DESCRIPTION | DRAWN | DATE |
|---|---|---|---|
| | | APPROVED | DATE |



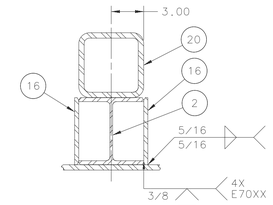

SECTION F-F
SCALE: 3/16



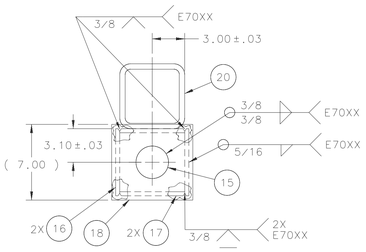



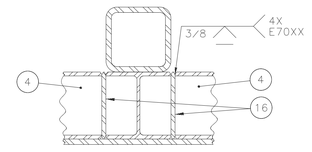

SECTION B-B
ROTATED 60° CW
SCALE = 3/16




SECTION C-C
ROTATED 60° CW
2 LOCATIONS
SCALE = 3/16




VIEW D-D
ROTATED 300° CCW
2 LOCATIONS
SCALE = 3/16




SECTION E-E
ROTATED 60° CW
2 LOCATIONS
SCALE = 3/16

| ITEM | PART NO. | DESCRIPTION OR SIZE | QTY. |
|---|---|---|---|
| 20 | COML | STRUCTURAL SQ TUBING, ASTM A500-GRADE B, 6 x 6 x 1/2 x 216.00 LG, SEE DETAIL T | 1 |
| 19 | COML | HOT ROLLED STEEL FLAT, ASTM A36, 1-1/2 x 4 x 4.00 LG, SEE DETAIL G | 4 |
| 18 | COML | HOT ROLLED STEEL PLATE, T1 TYPE A, ASTM A-514, 3/4 x 7.00 x 7.50, SEE DETAIL AB | 2 |
| 17 | COML | HOT ROLLED STEEL FLAT, ASTM A36, 3/8 x 6 x 24.00 LG, SEE DETAIL J | 4 |
| 16 | COML | HOT ROLLED STEEL PLATE, ASTM A36, 3/8 x 6.25 x 40.00, SEE DETAIL H | 4 |
| 15 | COML | STEEL PLATE, T1 TYPE C, ASTM A-514, GRADE Q, 3 x 3.00 X 7.00 LG, SEE DETAIL K | 2 |
| 14 | MC-56344 | GUSSET | 12 |
| 13 | MC-56343 | LIFTING PAD (LARGE) | 5 |
| 12 | MC-56342 | LIFTING PAD (SMALL) | 6 |
| 11 | COML | HOT ROLLED STEEL PLATE, ASTM A36, 1/2 x 26.00 x 31.38, SEE DETAIL L | 1 |
| 10 | COML | HOT ROLLED STEEL PLATE, ASTM A36, 1/2 x 24.00 x 24.00 | 1 |
| 9 | COML | HOT ROLLED STEEL PLATE, ASTM A36, 1/2 x 48.00 x 48.00 | 1 |
| 8 | COML | W BEAM, WIDE FLANGE, ASTM A36, W6 x 12 x 30.86 LG, SEE DETAIL Z | 2 |
| 7 | COML | W BEAM, WIDE FLANGE, ASTM A36, W6 x 12 x 34.34 LG, SEE DETAIL Y | 10 |
| 6 | COML | W BEAM, WIDE FLANGE, ASTM A36, W6 x 20 x 102.50 LG, SEE DETAIL S | 1 |
| 5 | COML | W BEAM, WIDE FLANGE, ASTM A36, W6 x 20 x 106.00 LG, SEE DETAIL R | 1 |
| 4 | COML | W BEAM, WIDE FLANGE, ASTM A36, W6 x 20 x 103.95 LG, SEE DETAIL Q | 4 |
| 3 | COML | W BEAM, WIDE FLANGE, ASTM A36, W6 x 20 x 102.00 LG, SEE DETAIL P | 2 |
| 2 | COML | W BEAM, WIDE FLANGE, ASTM A36, W6 x 20 x 102.00 LG, SEE DETAIL N | 2 |
| 1 | COML | W BEAM, WIDE FLANGE, ASTM A36, W6 x 20 x 102.00 LG, SEE DETAIL M | 2 |

PARTS LIST

NOTES:

1. USE FOUR (4) PICK-UP POINTS, ITEM 19, FOR HORIZONTAL LIFTING.
2. USE TWO (2) TRUNNIONS, ITEM 15, FOR VERTICAL LIFTING.
3. AS A POSITIONING REFERENCE, A 229.188 DIAMETER LOCATED AT CENTER OF WELDMENT SHOULD PASS THROUGH THE CENTER OF THE TWO OUTER TAPPED HOLES OF ALL LIFTING PLATES, ITEMS 11, 12 AND 13.
4. WELD ITEM 15 TO ITEM 18 FIRST AS A SUB ASSEMBLY, BEFORE WELDING TO THE FRAME IN ORDER TO INSURE THAT THE TWO TRUNNIONS (ITEM 15) ALIGN WITH CENTERLINE.
5. APPROX WEIGHT: 16,802 LBS
6. PAINT AS FOLLOWS:
   EXCEPT FOR LABEL AND SURFACES WITHIN 2 INCHES OF ANY WELD, OPERATING PARTS, FINISHED SURFACES AND ALL OTHER NOT CONCEALED STEEL PARTS SHALL BE: THOROUGHLY CLEANED OF ALL SCALE, RUST AND DIRT PER SPECIFICATIONS OF THE STEEL STRUCTURE PAINTING COUNCIL (SSPC) "SURFACE PREPERATION SPECIFICATION NO. 3, (SP-3) POWER TOOL CLEANING"; PRIMED WITH SYNTHETIC, QUICK-DRYING RUST-INHIBITING FERROUS METAL PRIMER GLIDDEN 5205 GLID-GUARD TANK AND STRUCTURAL PRIMER; PAINTED WITH TWO COATS OF INTERIOR, SEMI-GLOSS, ODORLESS, ALKYD ENAMEL. COLOR SHALL BE "MASSEY FERGUSON RED", INCLUDE 1 GALLON OF FINAL PAINT WITH SHIPMENT (FOR TOUCH-UP).

| UNLESS OTHERWISE SPECIFIED | | | ORIGINATOR | I.FANG | 03-JAN-2006 |
|---|---|---|---|---|---|
| .XX | .XXX | ANGLES | DRAWN | T.SPERRY | 03-JAN-2006 |
| ± .06 | ± - - | ±1/2° | CHECKED | C.GRIMM | 19-JAN-2006 |
| 1. BREAK ALL SHARP EDGES .03 MAX. 2. DO NOT SCALE DRAWING. 3. DIMENSIONS BASED UPON ASME Y14.5M-1994 4. MAX. ALL MACH. SURFACES | | | APPROVED | I.FANG | 19-JAN-2006 |
| | | | USED ON | | |
| 5. DRAWING UNITS:U.S.INCH | | | MATERIAL SEE PARTS LIST ABOVE | | |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FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY

PPD/MECHANICAL DEPT.
CYCLOTRON MAGNET
LIFTING FIXTURE ASSY

| SCALE | DRAWING NUMBER | SHEET | REV |
|---|---|---|---|
| 1/8 & AS NOTED | 9204.200-ME-435680 | 1 OF 3 | |

CREATED WITH : Ideas11NXSeries | GROUP: PPD/MECHANICAL DEPARTMENT