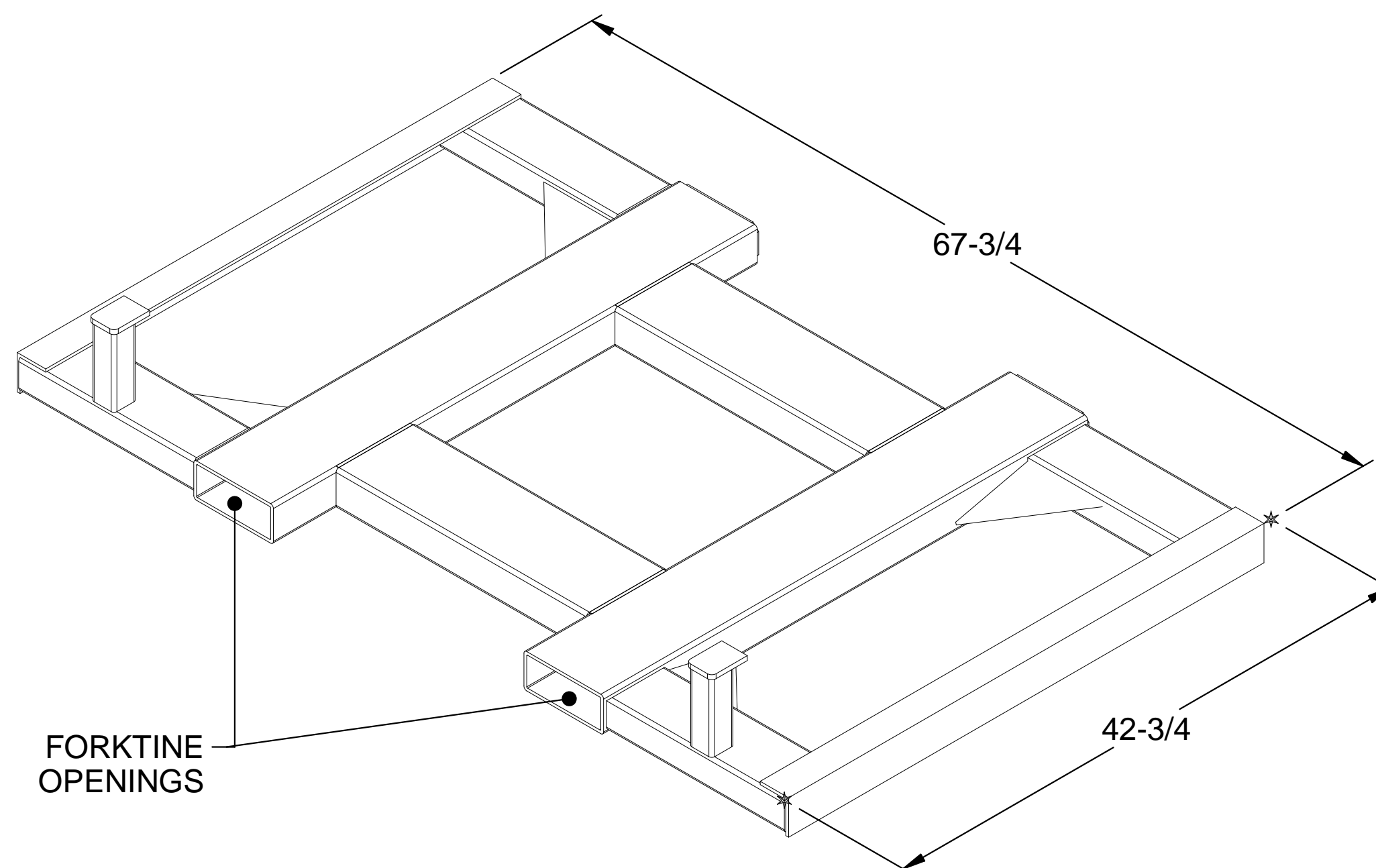
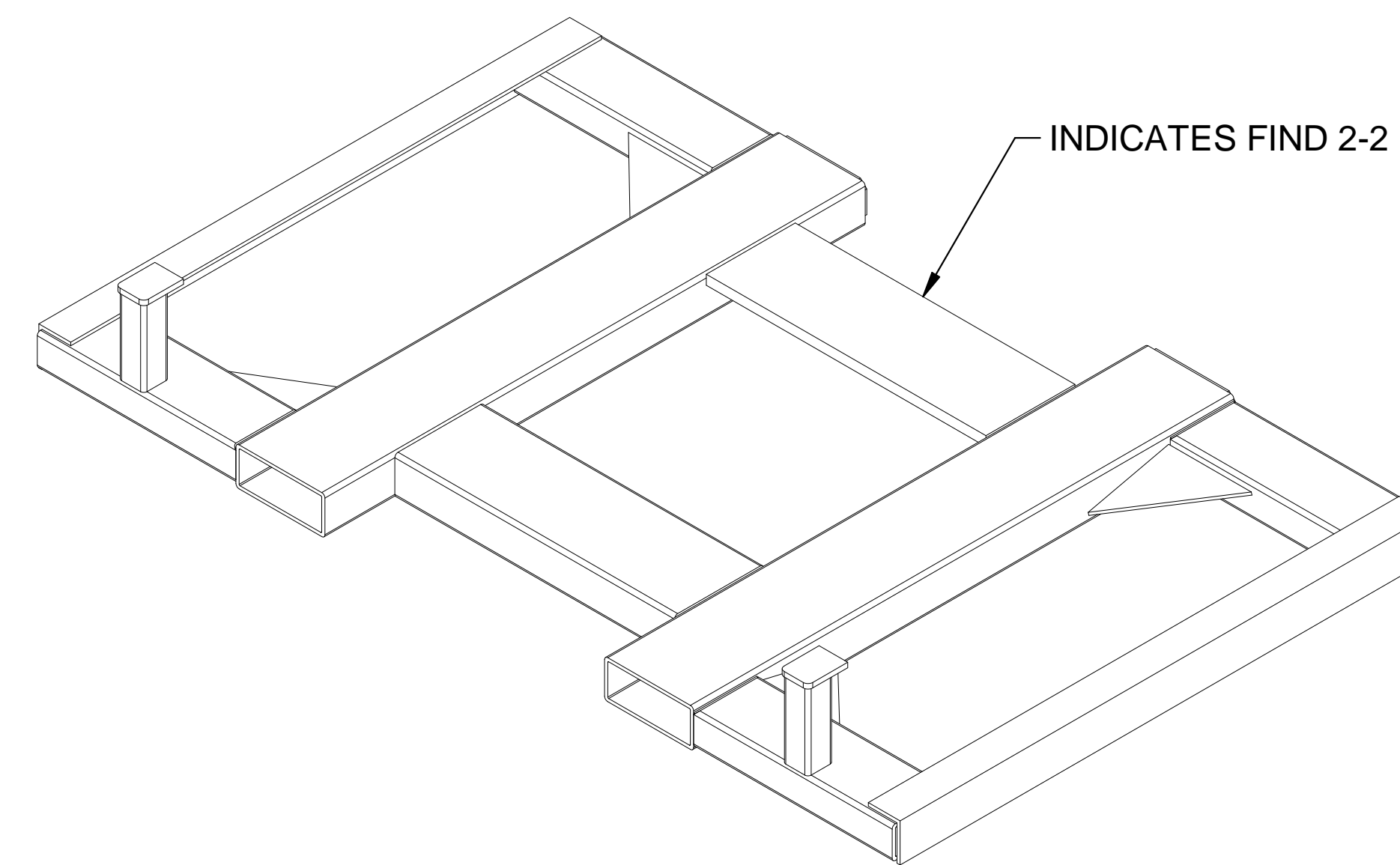


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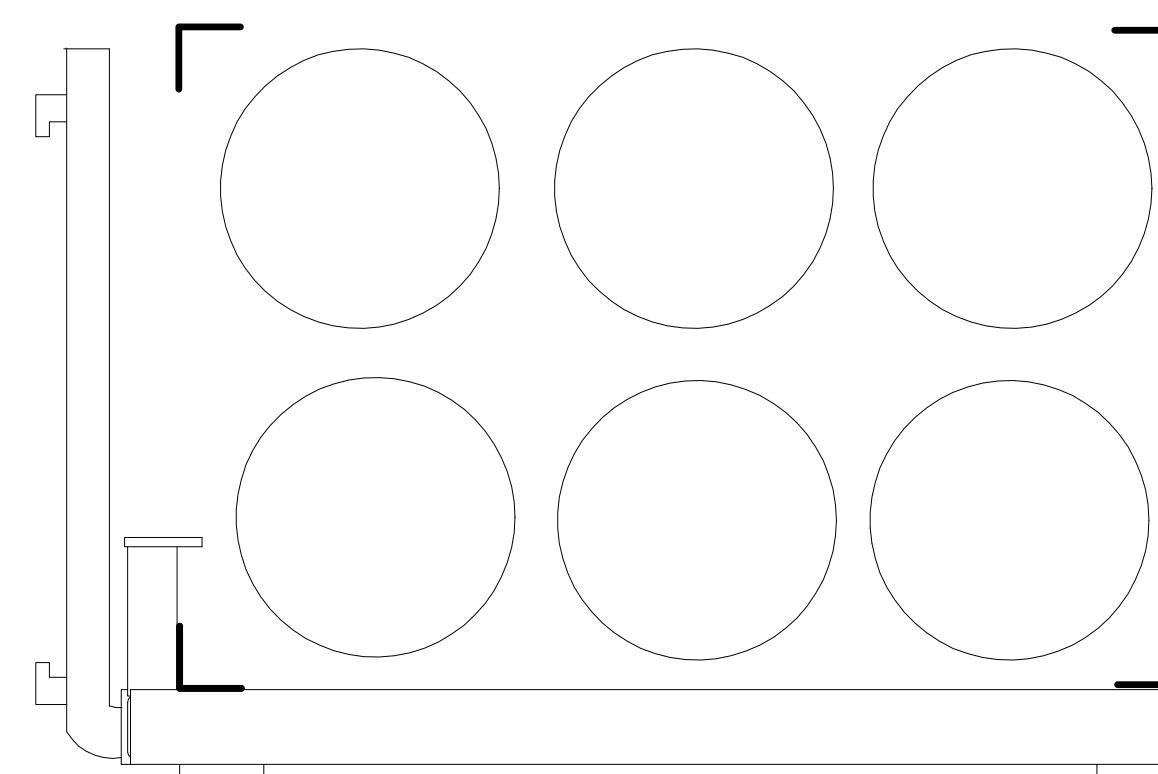
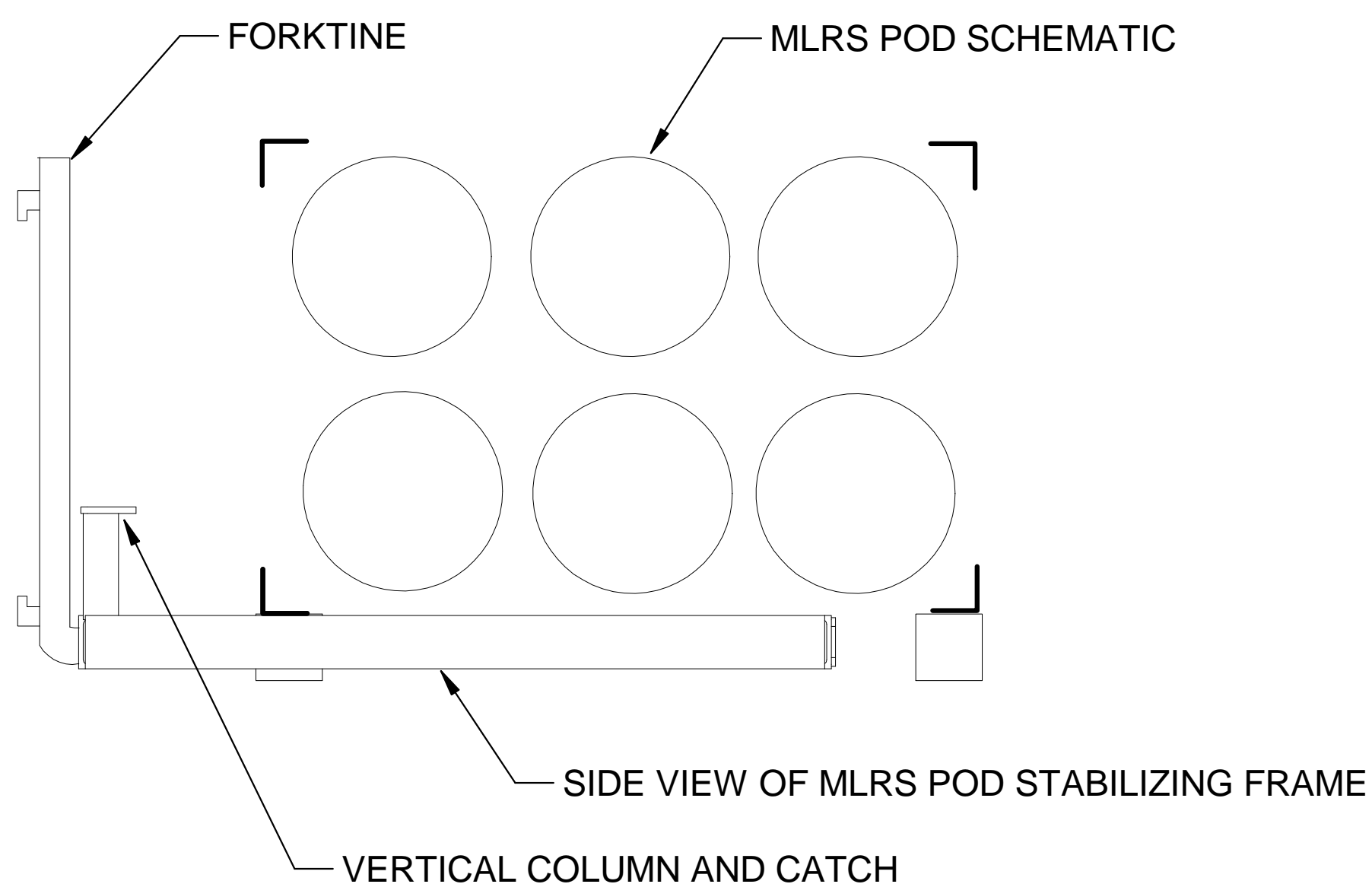
1. TINES OF A 6,000 LB FORKLIFT ARE INSERTED INTO THE MLRS STABILIZING FRAME SHOWN IN THE ISOMETRIC VIEW. THE TWO SIDE VIEWS SHOW THE STABILIZER PLACED UNDERNEATH AN MLRS POD. IN THE LIFT POSITION VIEW, THE COLUMNS ON THE FRAME HAVE ENGAGED THE NEAR SIDE FRAME OF THE POD.
2. THE COMBINATION OF THE 67-3/4 INCH WIDTH OF THE FRAME AND THE CATCH ON THE TWO VERTICAL COLUMNS STABILIZE MLRS PODS DURING HANDLING.
3. THE 1/4 INCH SAFETY CHAINS ARE NOT SHOWN BUT WILL BE WELDED TO THE FRAME AT THE MOST DIRECT LOCATION FOR ATTACHMENT TO THE FORKLIFT CARRIAGE BY SECURE HOOKING.
4. CREDIT FOR THIS DESIGN IS GIVEN TO THE ANNISTON ARMY DEPOT'S SUGGESTION PROGRAM AND IN-HOUSE CONSTRUCTION. THE CONCEPT HAS BEEN IN USE AT ANNISTON OVER 10 YEARS OF SAFE OPERATION HANDLING NUMEROUS MLRS PODS.
5. AS SHOWN BELOW, THE FRAME CAN BE CONSTRUCTED USING THE ALTERNATIVE FIND 2-2 CONNECTION PIECE IN LIEU OF THE ENTRY FIND 2-1 PIECE. FOLLOW THE SAME WELDING AND LOADING INSTRUCTIONS LISTED ON SHEET 2, BUT SUBSTITUTE THE NEW WELDING CRITERIA SPECIFIED FOR THE FIND 2-2 ALTERNATIVE.
6. INITIAL AND PERIODIC LOAD TESTING MUST BE PERFORMED IAW TB 43-0142 FOR THE MLRS STABILIZING FRAME DEPICTED HEREIN. THE TEST LOAD MUST EQUAL OR EXCEED 200% OF THE WEIGHT OF THE HEAVIEST MLRS POD, CURRENTLY 5,095 POUNDS.



STANDARD VIEW WITH FIND 2-1 IN PLACE



ALTERNATE VIEW WITH FIND 2-2 IN PLACE



LIFT POSITION

THE FORKLIFT CARRIAGE IS TO BE CENTERED ON THE CENTER OF GRAVITY MARK ON THE MLRS POD.

| REVISION STATUS OF SHEETS | |
|---------------------------|----------|
| SHEET | REVISION |
| 1 | D |
| 2 | C |
| 3 | C |

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DISTRIBUTION IS UNLIMITED.

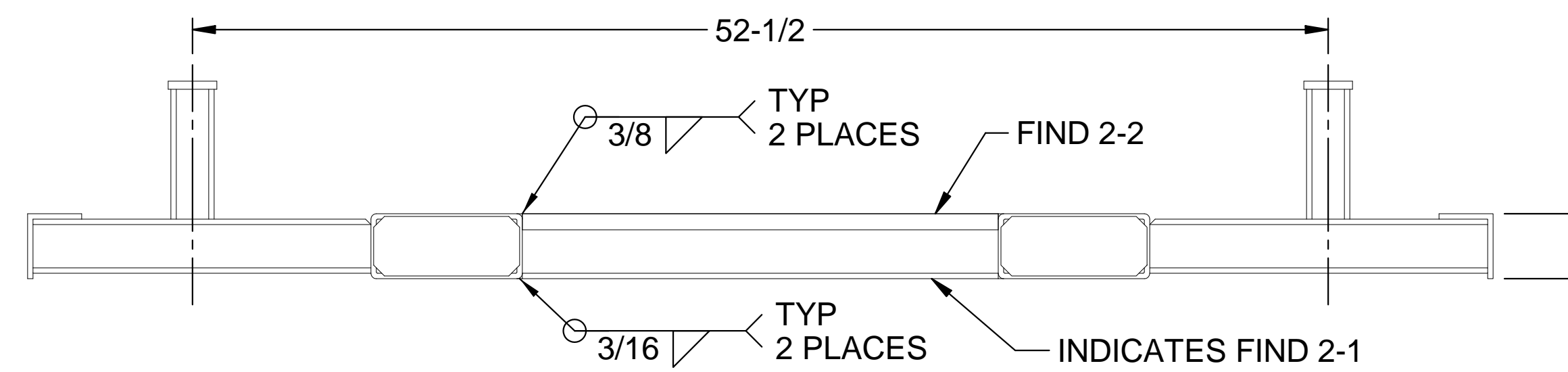
| REVISION | | | | APPROVED | |
|----------|---|----------|----|----------|----------|
| LTR. | DESCRIPTION | ENCL. | BY | DATE | |
| - | INITIAL RELEASE FOR PROTOTYPE FABRICATION | 89-04-20 | JS | MICHELS | 89-05-15 |
| A | ADDED 2.5 X 3 X 0.25 ANGLE, FIND 8 | 97-01-06 | JS | MICHELS | 97-01-10 |
| B | ADDED POSSIBLE WELD POINTS FOR SAFETY CHAINS PER NP DET-001-02 02-08-06 | | MB | FIEFFER | 03-04-18 |
| C | ADDED ALTERNATIVE CONNECTING PIECE, FIND 2-2 | | MS | FIEFFER | 13-08-26 |
| D | ADDED LOAD TESTING NOTE, NOTE 6 | | CT | FIEFFER | 14-03-12 |

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

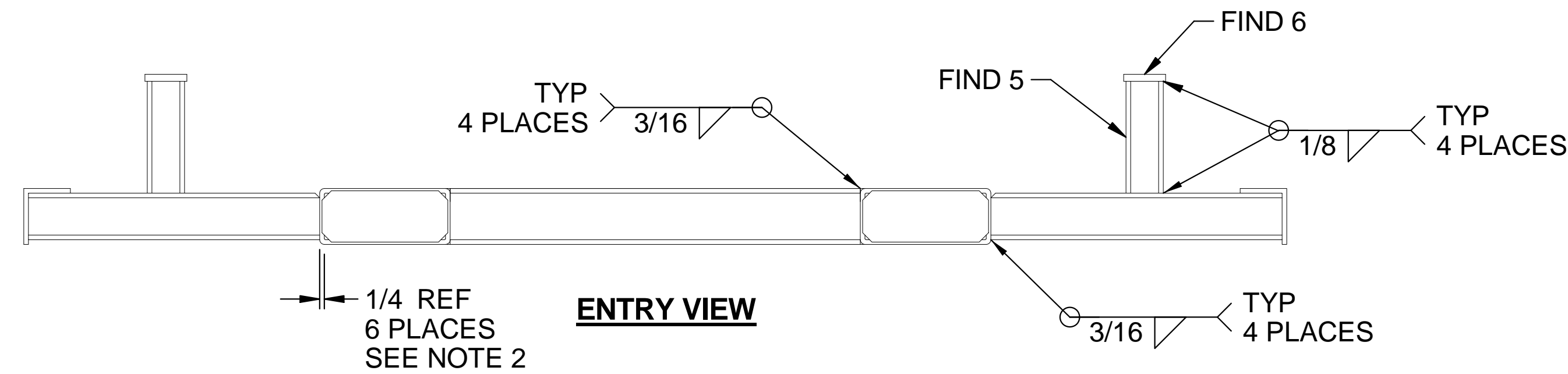
| | | | | | |
|---|--|---|----------------------------------|--|---------------------|
| UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES | | DATE 88-04-05 | PROJECT ENGINEER John Sprague | DESIGN ACTIVITY U.S. ARMY COMBINED ARMS SUPPORT COMMAND DEFENSE AMMUNITION CENTER (DAC) MCALESTER, OKLAHOMA 74501-9053 | |
| TOLERANCES: .XX .XXX ±.06 ±.005 ±0°15' ±1/64 125 | | TEST REPORT | TEST ENGINEER | MLRS POD STABILIZING FRAME USED W/6K FORKLIFT | |
| REMOVE ALL BURRS AND SHARP EDGES Ø10 R OR CHAMFER MAX. | | T. Michels CHIEF, EVALUATION DIVISION | | SIZE D | CAGE 28620 |
| MATERIAL | | W. F. Ernst CHIEF, LOGISTICS ENGINEERING OFFICE | | DRAWING No. AC200000809 | REV. D |
| NEXT ASSEMBLY | | APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIAL COMMAND John L. Byrd, Jr. | | SCALE 1/8 | UNIT WT 1640 LBS |
| APPLICATION | | | | SHEET 1 OF 3 | |

NOTES:

1. CHECK THE SPREAD OF THE FORK TINES ON THE FORKLIFT TO BE USED IN HANDLING MLRS PODS AND DETERMINE THAT THIS DESIGN WILL FIT THE FORKLIFT AT THE MAXIMUM SPREAD OF THE TINES. THE FORK OPENING LOCATIONS MAY BE ADJUSTED BY VARYING THE LENGTH OF FIND 2 AND FIND 3 TO MAINTAIN THE OVERALL WIDTH (67-3/4").
2. FIND 1 AND 2 ARE THE PRIMARY BEARING SURFACES UNDER THE MLRS POD. THE TOP SURFACES OF FIND 3 ARE TO BE 1/4 INCH BELOW THE PRIMARY SURFACE. THE PRIMARY SURFACE WILL BE WELDED FLAT WITHIN 1/16 INCH.
3. THE WELD ASSEMBLY WILL BE SECURED TO THE FORKLIFT CARRIAGE BY TWO 1/4 INCH SAFETY CHAINS AND HOOKS.
4. AS STATED, THE ALTERNATIVE CONNECTING PIECE, FIND 2-2, MAY BE USED WHEN THE LOADING SITUATION REQUIRES IT. FOLLOW THE SPECIFIED WELDING GUIDELINES SHOWN; HOWEVER, SUBSTITUTE THE WELDING SPECIFIED IN THE "ENTRY VIEW WITH FIND 2-2 ALTERNATIVE IN PLACE".

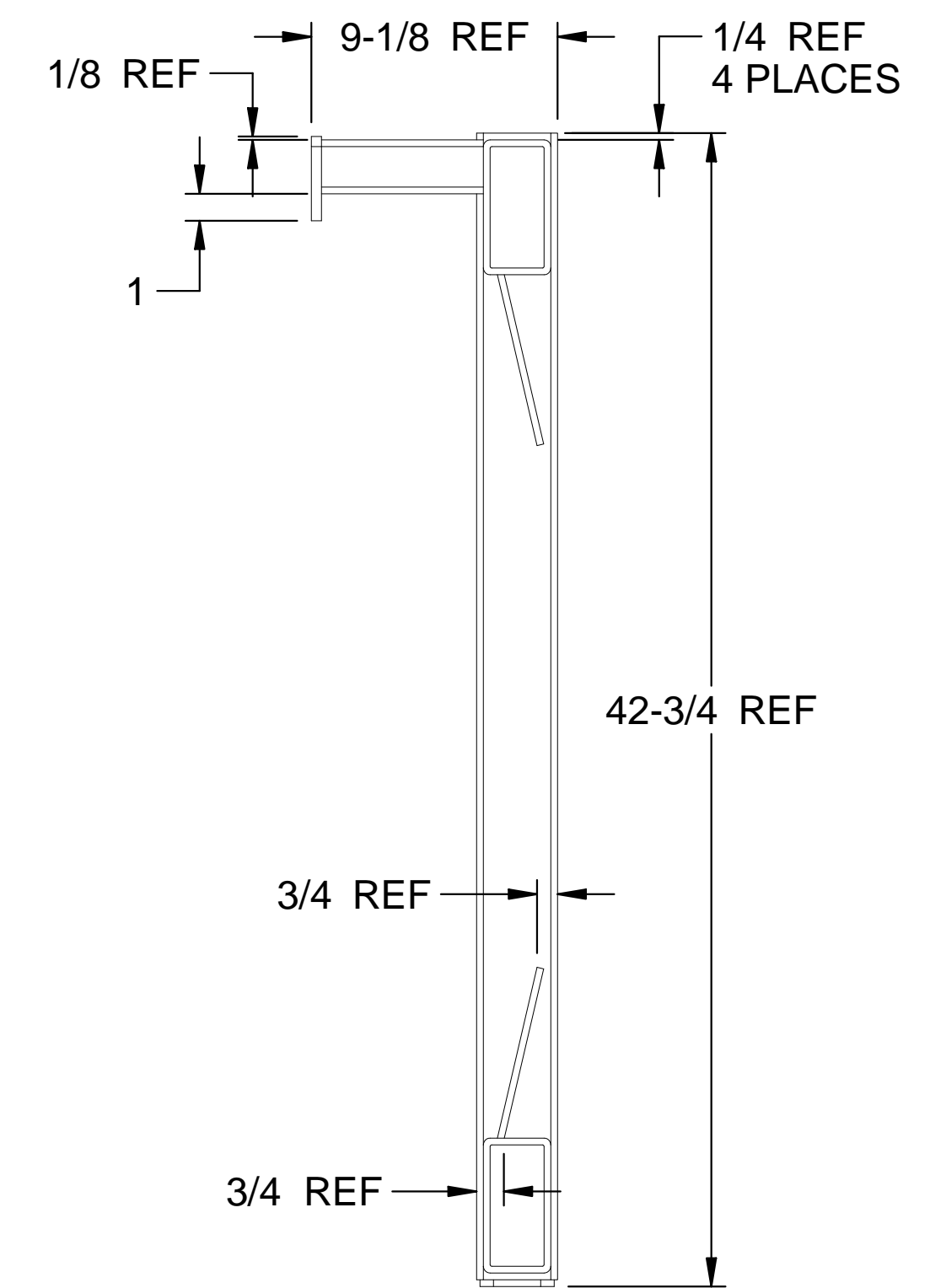
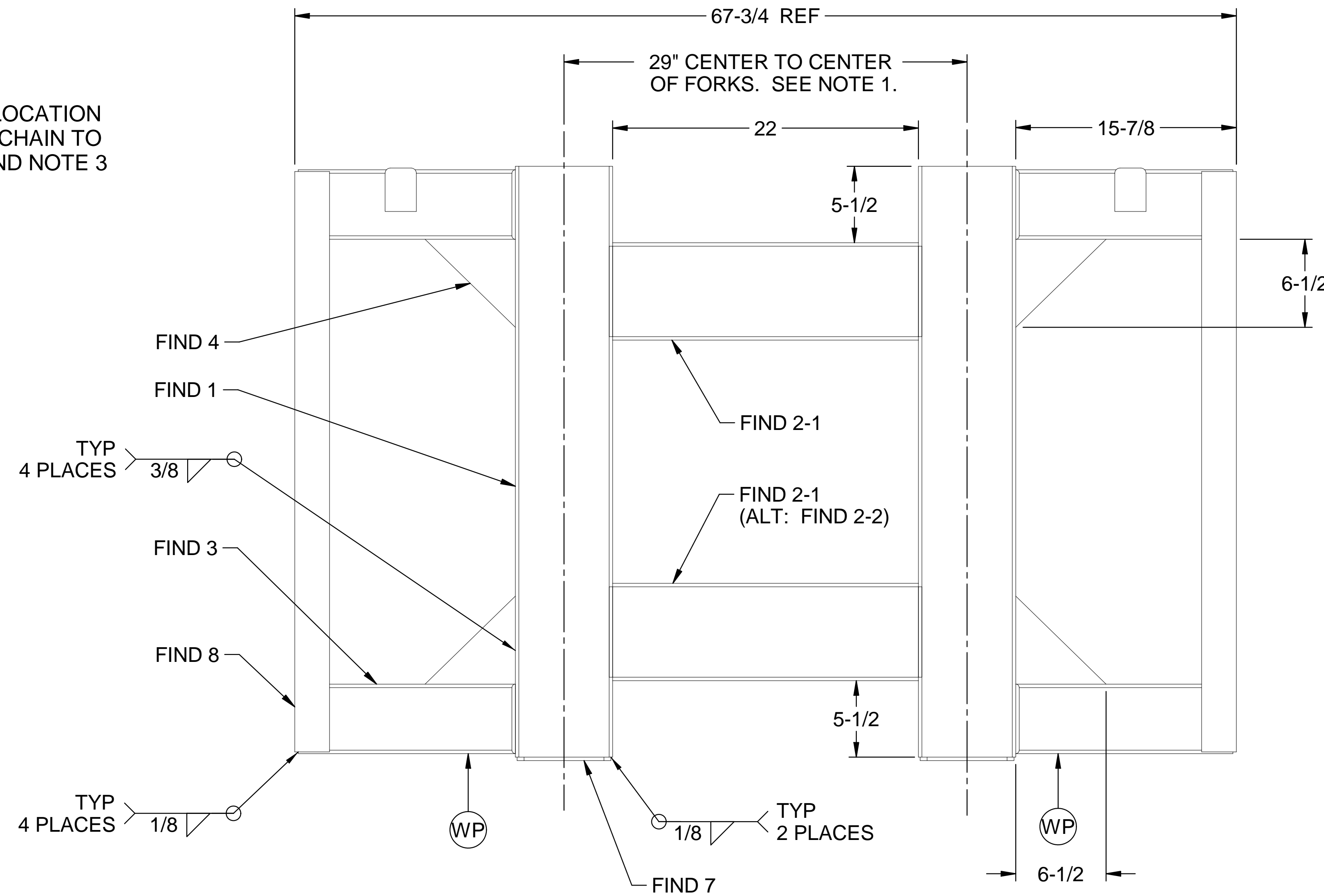


ENTRY VIEW WITH FIND 2-2 ALTERNATIVE IN PLACE



ENTRY VIEW

WP → POSSIBLE WELD POINTS FOR THE LOCATION OF WELDING THE 1/4 INCH SAFETY CHAIN TO THE FRAME. SEE NOTE 3 ABOVE AND NOTE 3 ON SHEET 1 OF THIS DRAWING.



| REVISION | | | APPROVED | | |
|----------|---|----------|----------|---------|----------|
| LTR. | DESCRIPTION | ENG. | BY | DATE | |
| - | INITIAL RELEASE FOR PROTOTYPE FABRICATION | 89-04-20 | JS | MICHELS | 89-05-15 |
| A | ADDED 2.5 X 3 X 0.25 ANGLE, FIND 8 | 97-01-06 | JS | MICHELS | 97-01-10 |
| B | ADDED POSSIBLE WELD POINTS FOR SAFETY CHAINS PER NP DET-001-02 02-08-06 | | MB | FIEFFER | 03-04-18 |
| C | ADDED ALTERNATIVE CONNECTING PIECE, FIND 2-2 | | MS | FIEFFER | 13-08-26 |

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

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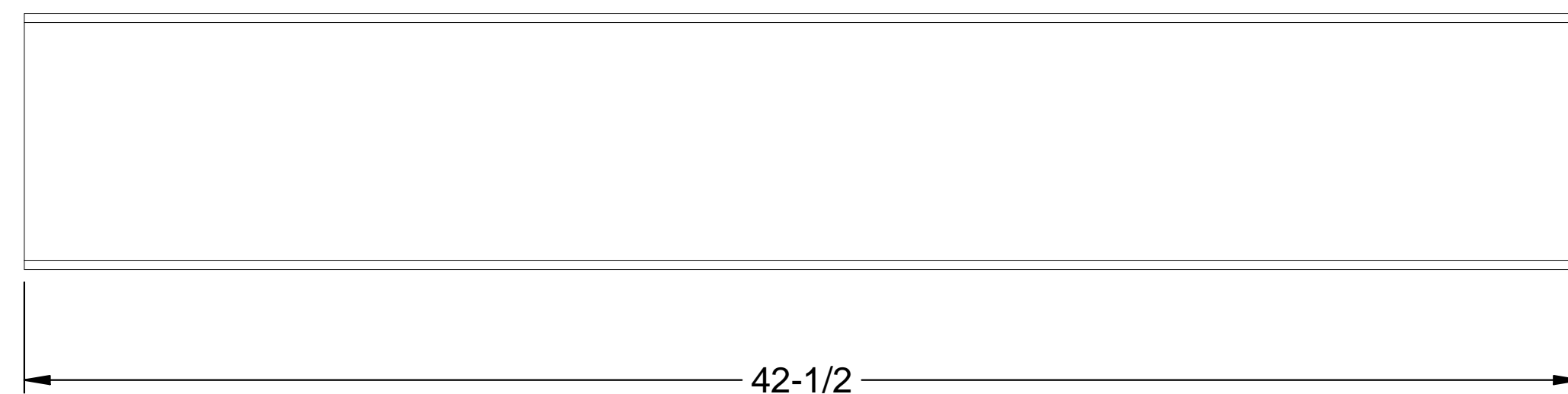
| | | | | | |
|--|----------------------------------|--|-----------------|----------------------------|-----------|
| DATE 88-04-05 | PROJECT ENGINEER John Sprague | DESIGN ACTIVITY U.S. ARMY COMBINED ARMS SUPPORT COMMAND DEFENSE AMMUNITION CENTER (DAC) MCALESTER, OKLAHOMA 74501-9053 | | | |
| TEST REPORT | TEST ENGINEER | WELD ASSEMBLY, MLRS POD STABILIZER USED W/6K FORKLIFT | | | |
| SUBMITTED T. Michels CHIEF, EVALUATION DIVISION | | | | | |
| APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIAL COMMAND John L. Byrd, Jr | | SIZE D | CAGE 28620 | DRAWING No. AC200000809 | REV. C |
| SCALE 1/6 | | UNIT WT 1640 LBS | SHEET 2 OF 3 | | |

NOTES:

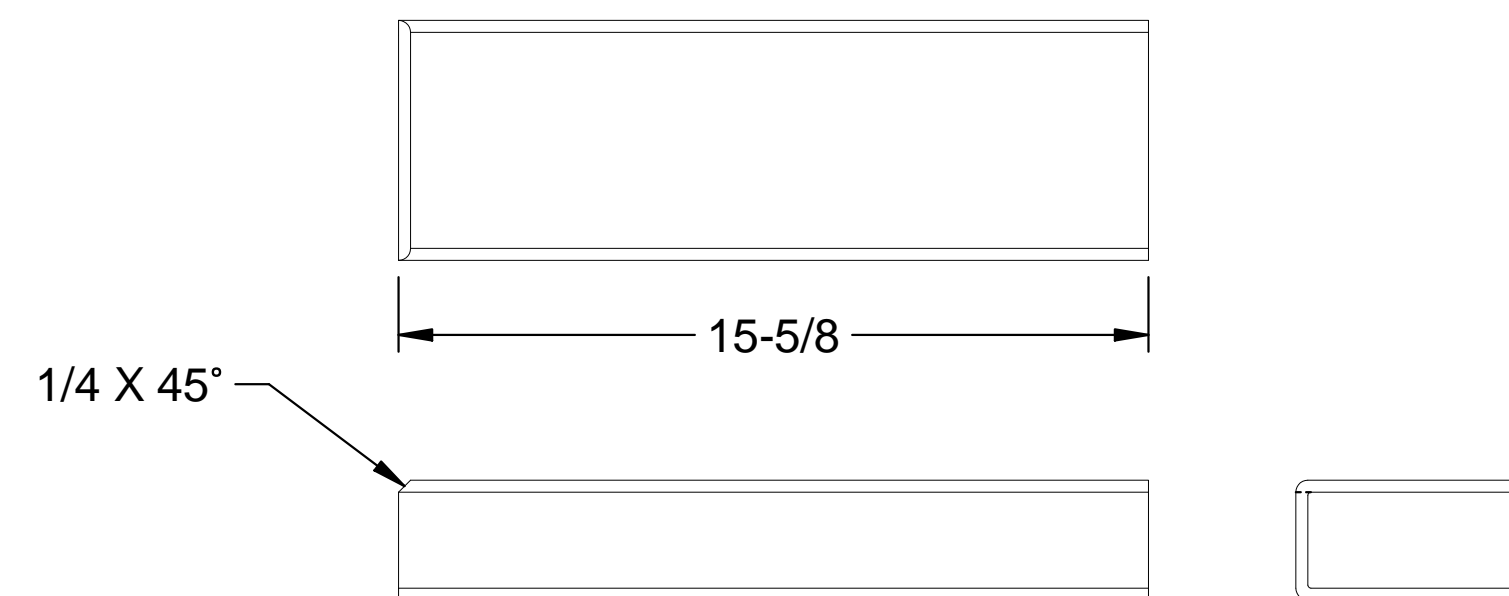
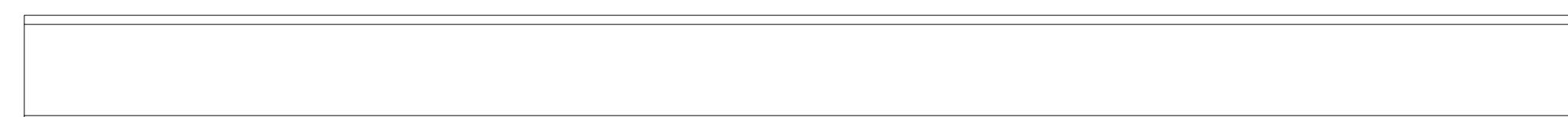
- IF 7 X 3 X 1/4 WALL TUBING CANNOT BE OBTAINED, 8 X 3 X 1/4 WALL TUBING MAY BE SUBSTITUTED PROVIDING FINDS 2 AND 3 ARE ADJUSTED TO ACHIEVE O.A.W. OF 67-3/4".
- USE FIND 2-2 AS AN ALTERNATIVE TO FIND 2-1 WHEN NEEDED TO COMPENSATE FOR VARIOUS LOADING CONDITIONS.

| REVISION | | | | APPROVED | |
|----------|---|----------|----|----------|----------|
| LTR. | DESCRIPTION | ENG. | BY | DATE | |
| - | INITIAL RELEASE FOR PROTOTYPE FABRICATION | 89-04-20 | JS | MICHELS | 89-05-15 |
| A | ADDED 2.5 X 3 X 0.25 ANGLE, FIND 8 | 97-01-06 | JS | MICHELS | 97-01-10 |
| B | ADDED POSSIBLE WELD POINTS FOR SAFETY CHAINS PER NP DET-001-02 02-08-06 | | MB | FIEFFER | 03-04-18 |
| C | ADDED ALTERNATIVE CONNECTING PIECE, FIND 2-2 | | MS | FIEFFER | 13-08-26 |

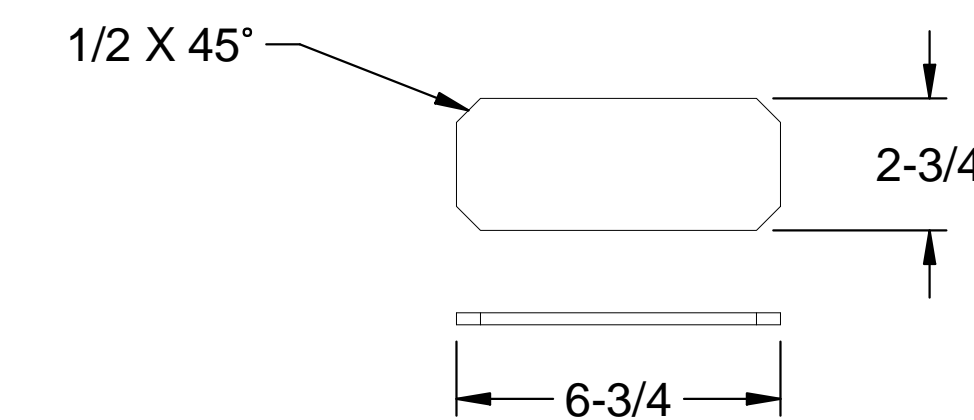
CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.



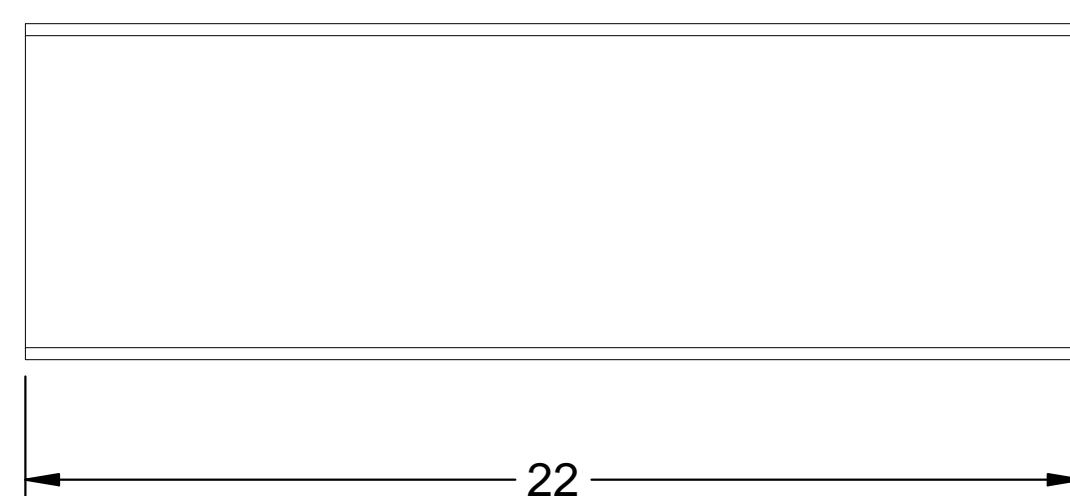
7 X 3 X 1/4 WALL STRUCTURAL STEEL TUBING
ASTM A500 - GRADE B
FIND 1, 2 EACH



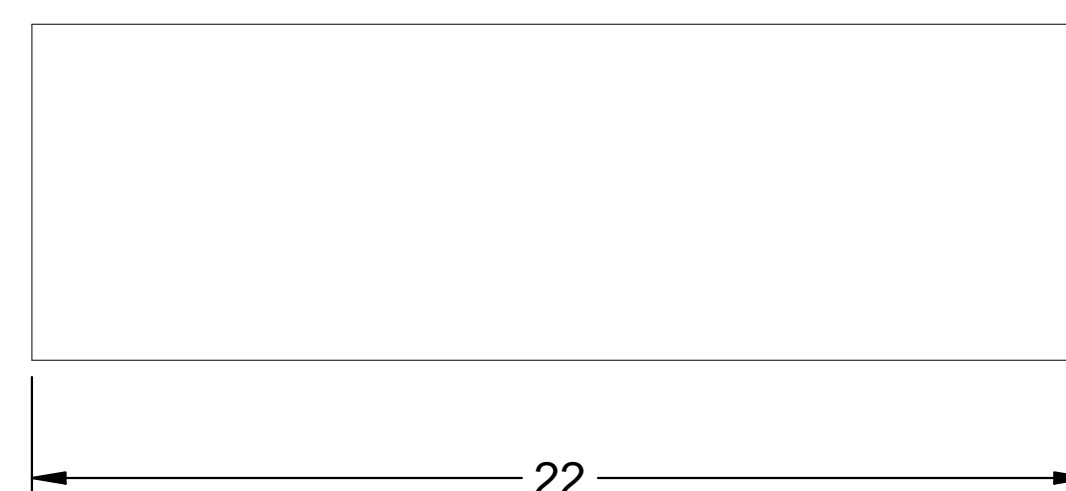
5 X 2-1/2 X 1/4 WALL STRUCTURAL STEEL TUBING
ASTM A500 - GRADE B
FIND 3, 4 EACH



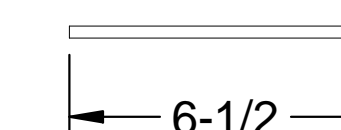
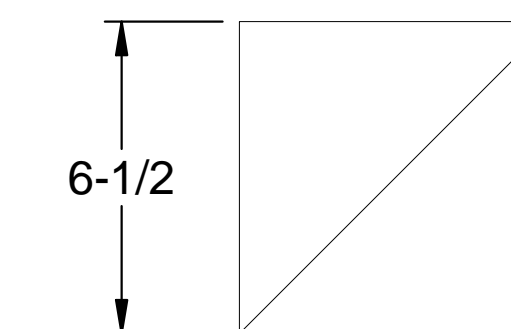
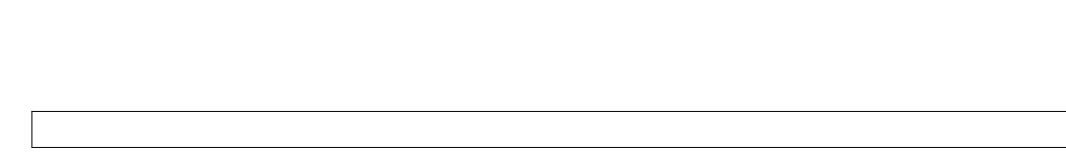
1/4 PLATE, ASTM A36 LOW CARBON STEEL
FIND 7, 2 EACH



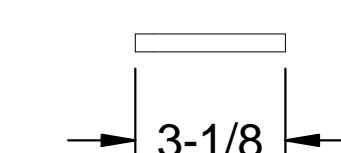
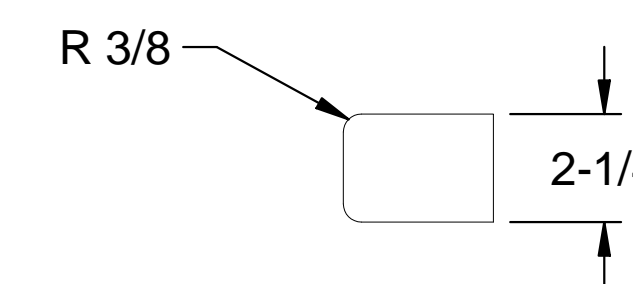
7 X 3 X 1/4 WALL STRUCTURAL STEEL TUBING
ASTM A500 - GRADE B
FIND 2-1, 2 EACH (1 EACH WHEN USED IN
CONJUNCTION WITH FIND 2-2)



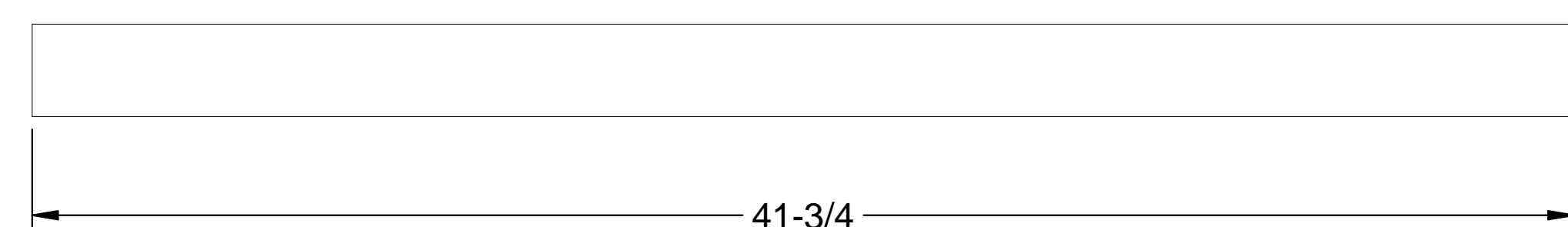
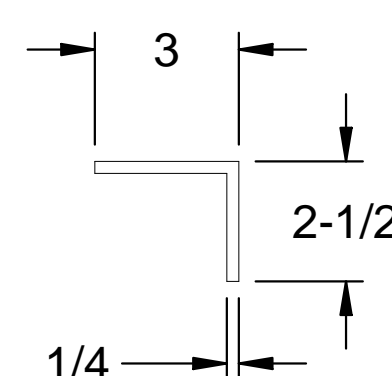
7 X 3 X 1/4 PLATE, LOW CARBON STEEL
ASTM A36
FIND 2-2, 1 EACH ALTERNATIVE TO FIND 2-1,
SEE NOTE 2



1/4 PLATE, ASTM A36 LOW CARBON
STEEL
FIND 4, 4 EACH

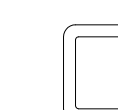
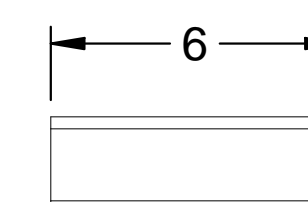


3/8 PLATE, ASTM A36 LOW CARBON STEEL
FIND 6, 2 EACH



3 X 2-1/2 X 1/4 STRUCTURAL ANGLE
ASTM A36
FIND 8, 2 EACH

2 X 2 X 1/4 WALL STRUCTURAL STEEL TUBING
ASTM A500 - GRADE B
FIND 5, 2 EACH



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| | | | | |
|--|------------------|--|---|-------------|
| DATE | PROJECT ENGINEER | DESIGN ACTIVITY | U.S. ARMY COMBINED ARMS SUPPORT COMMAND DEFENSE AMMUNITION CENTER (DAC) MCALESTER, OKLAHOMA 74501-9053 | |
| TEST REPORT | TEST ENGINEER | | | |
| SUBMITTED | | MLRS POD STABILIZING FRAME; WELDED COMPONENTS | | |
| T. Michels CHIEF, EVALUATION DIVISION | | SIZE | CAGE | DRAWING No. |
| W. F. Ernst CHIEF, LOGISTICS ENGINEERING OFFICE | | D | 28620 | AC200000809 |
| APPROVED BY ORDER OF COMMANDING GENERAL, U.S. ARMY MATERIAL COMMAND | | SCALE | UNIT WT | REV. |
| John L. Byrd, Jr. | | 1/4 | 1640 LBS | C |
| | | SHEET | 3 OF 3 | |