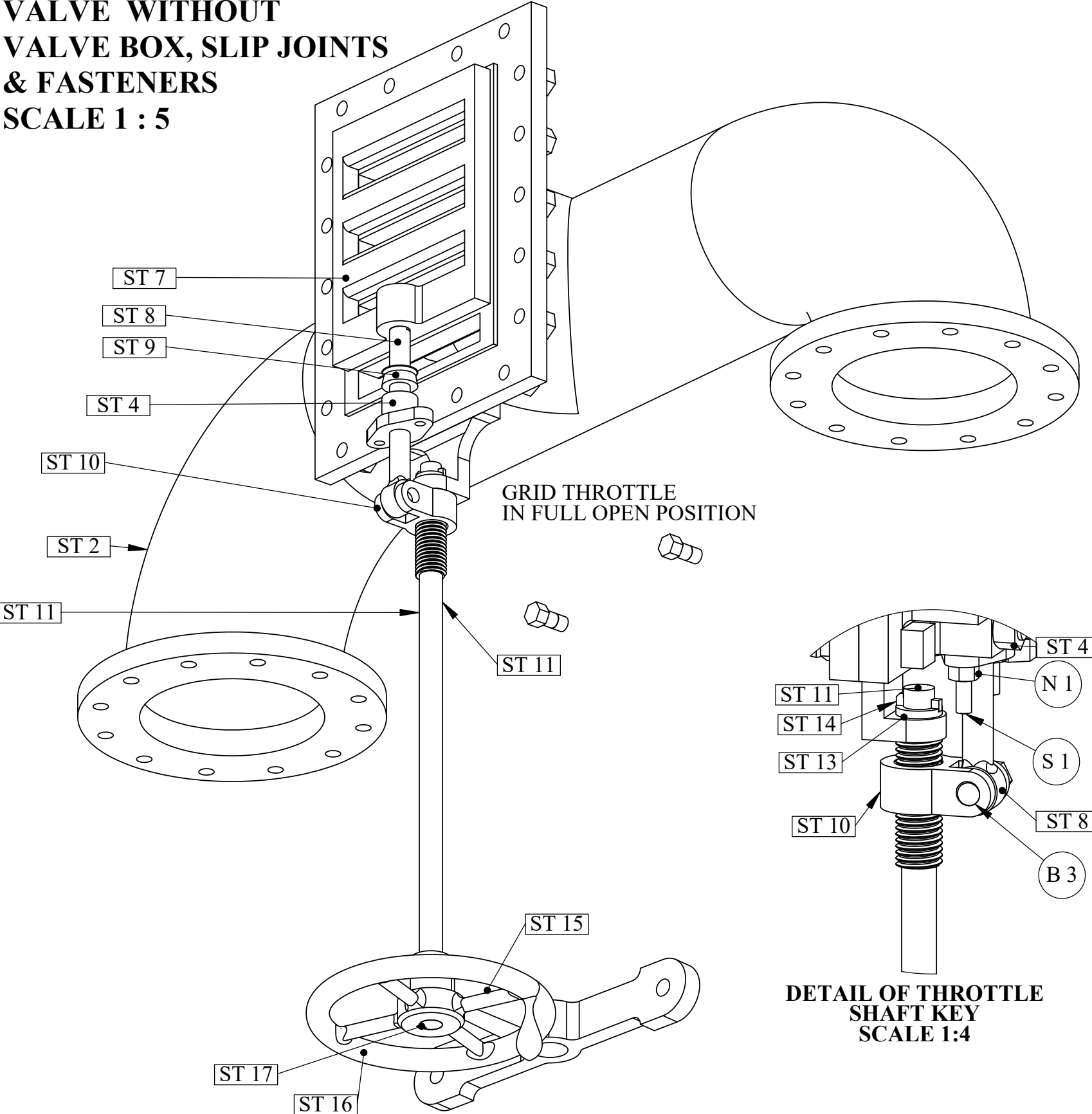


| PART NUMBER | DESCRIPTION | QTY. |
|-------------|-------------------------------|------|
| ST 2 | Steam Pipe | 1 |
| ST 10 | Throttle Shaft Nut | 1 |
| ST 11 | Throttle Shaft | 1 |
| ST 12 | Throttle Shaft Bracket- Top | 1 |
| ST 13 | Throttle Shaft Bracket Washer | 1 |
| ST 14 | Throttle Shaft Top Key | 1 |
| ST 15 | Throttle Shaft Bracket- Lower | 1 |
| ST 16 | Throttle Wheel | 1 |
| ST 17 | Throttle Wheel Key | 1 |
| ST 3 | Steam Valve Box | 1 |
| ST 4 | Steam Valve Box Packing Gland | 1 |
| ST 5 | Slip Joint | 1 |
| ST 6 | Slip Joint Packing Gland | 1 |
| ST 7 | Grid Throttle Valve | 1 |
| ST 8 | Grid Valve Eye Bolt | 1 |
| ST 9 | Babbitt Packing-Eye Bolt | 1 |
| B 3 | 3/4" Bolt x 2" | 1 |
| B 4 | 3/4" Bolt x 2-1/2" | 8 |
| B 5 | 3/4" Bolt x 2-3/4" | 16 |
| B 6 | 3/4" Bolt x 3-1/4" | 21 |
| B 8 | 3/4" Bolt x 6-3/4" | 2 |
| N 1 | 1/2" Hex Nut | 2 |
| N 3 | 3/4" Hex Nut | 56 |
| S 1 | Stud 1/2" x 3" | 2 |
| S 5 | Stud 3/4" x 5" | 6 |
| S 10 | Stud 7/8" x 3" | 2 |
| N 4 | 7/8" Hex Nut | 2 |
| ST 18 | Injection Components Assembly | 1 |
| B 2 | 3/4" Bolt x 1-3/8" | 2 |

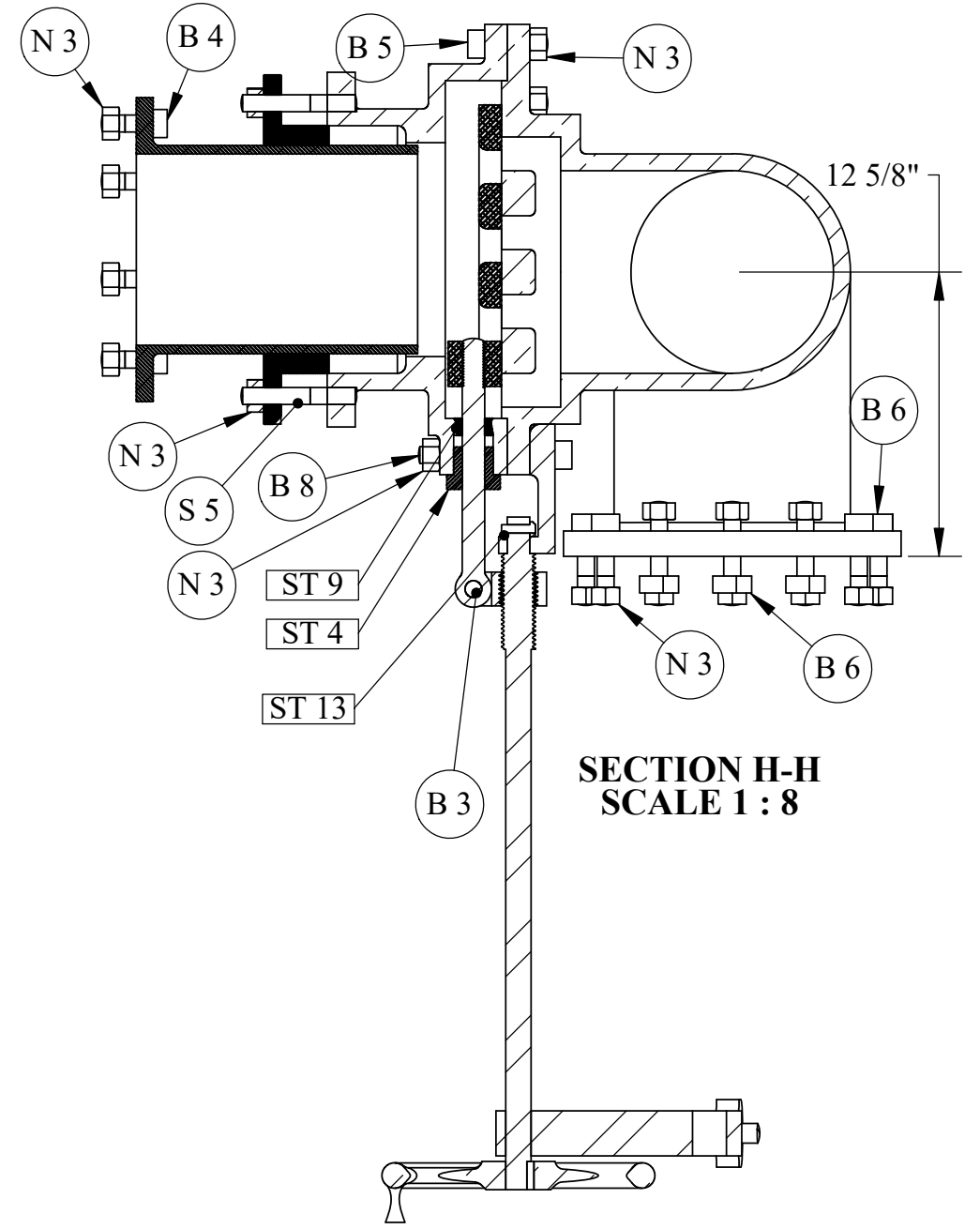
U.S.S. Monitor Steam Engine

| | | |
|--------------|--------------------------------|-------------------------|
| Material | Drawn By - Date | Sub-Assembly |
| Weight (Lbs) | RWC 12-2018 | Steam Pipe and Throttle |
| 1102.41 | | |
| Scale | Description | |
| 1:10 | Steam Pipe & Throttle Assembly | |
| Part # | | |
| ST 1 | | |

**VIEW OF THROTTLE
VALVE WITHOUT
VALVE BOX, SLIP JOINTS
& FASTENERS
SCALE 1 : 5**



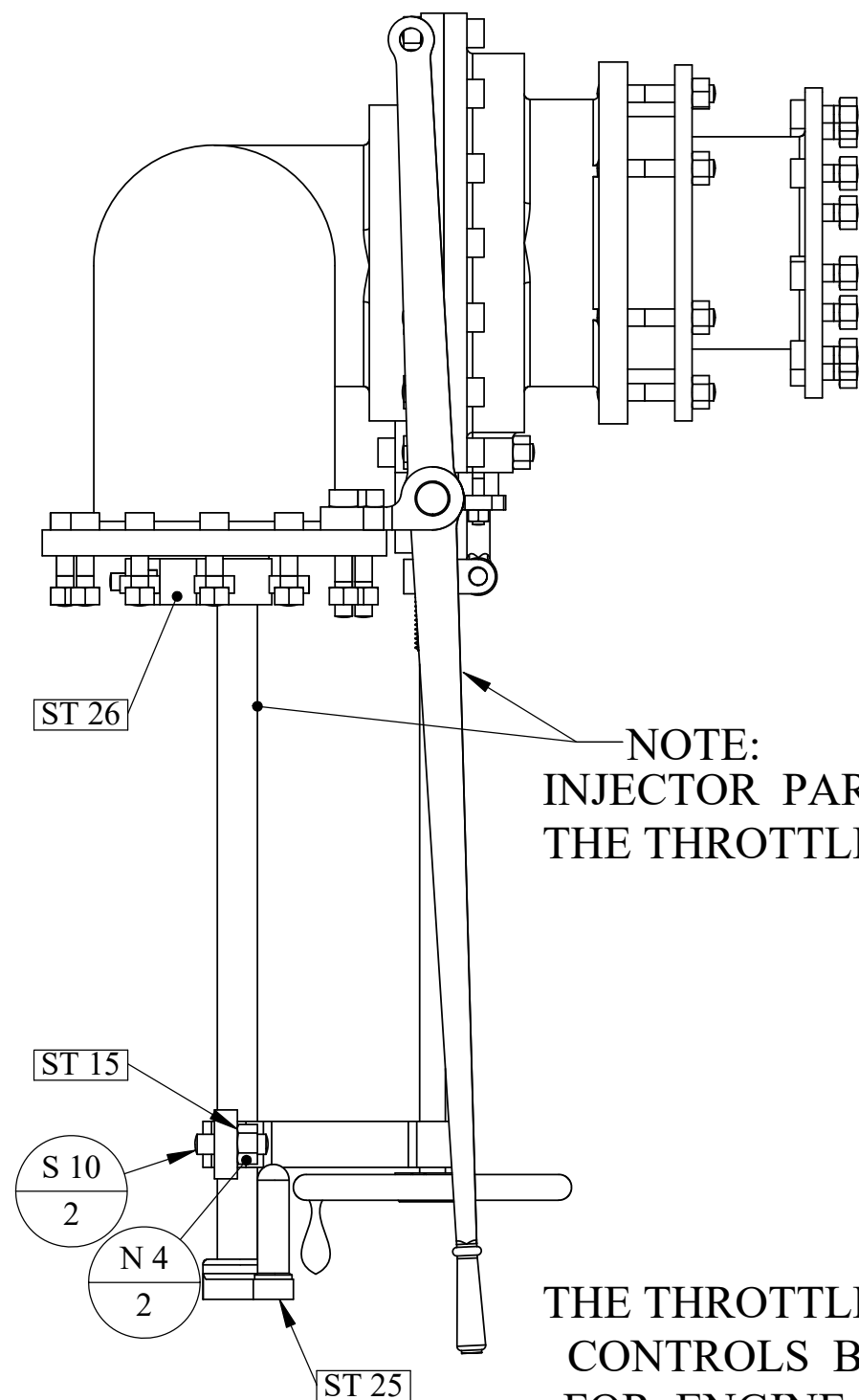
**DETAIL OF THROTTLE
SHAFT KEY
SCALE 1:4**



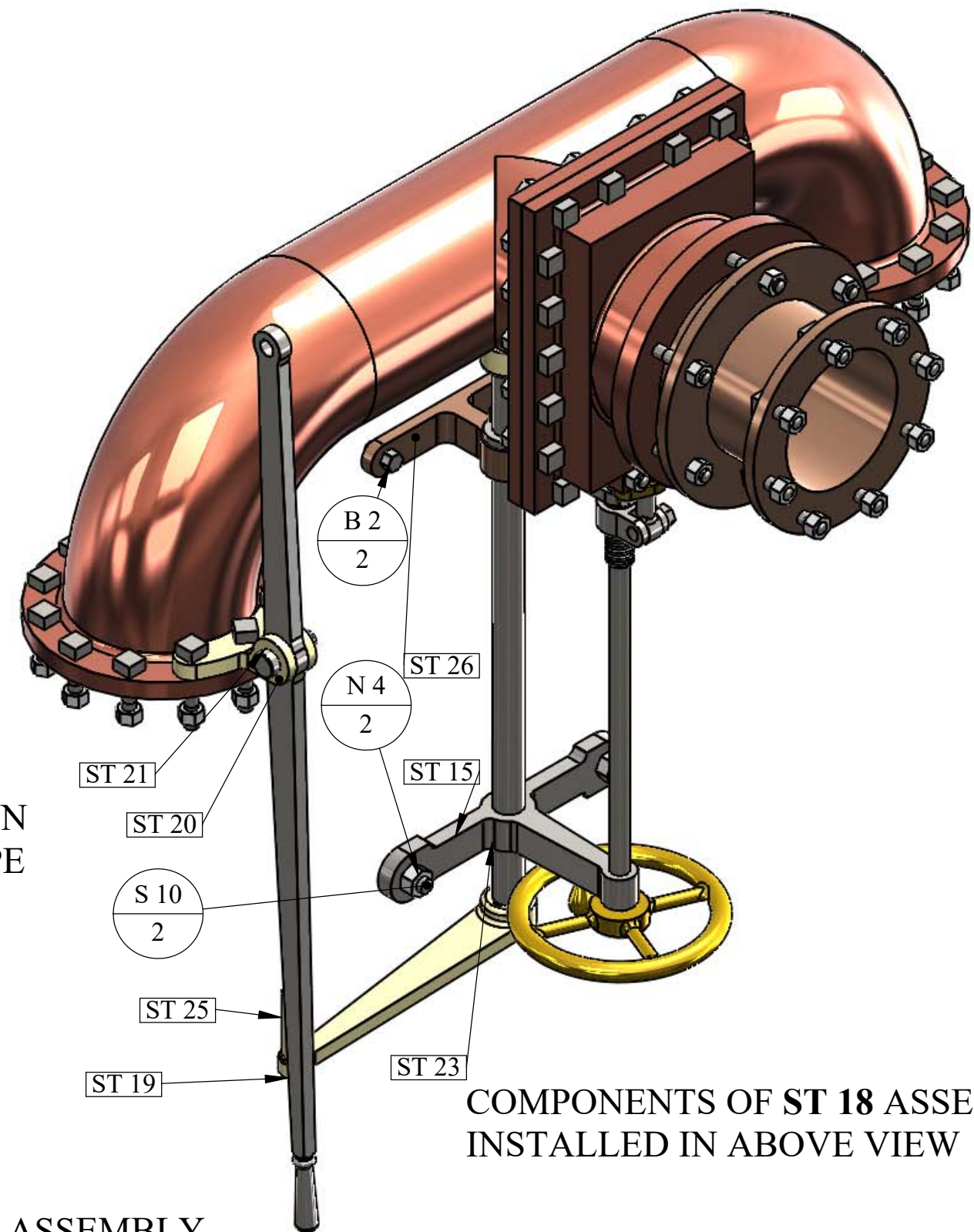
**SECTION H-H
SCALE 1 : 8**

U.S.S. Monitor Steam Engine

| | | |
|--------------|-----------------|---|
| Material | Drawn By - Date | Sub-Assembly |
| Weight (Lbs) | RWC 12-2018 | Steam Pipe and Throttle |
| 1102.41 | Description | Steam Pipe & Throttle Assembly |
| Scale | | |
| 1:5 | | |
| Part # | | |
| ST 1 | | |



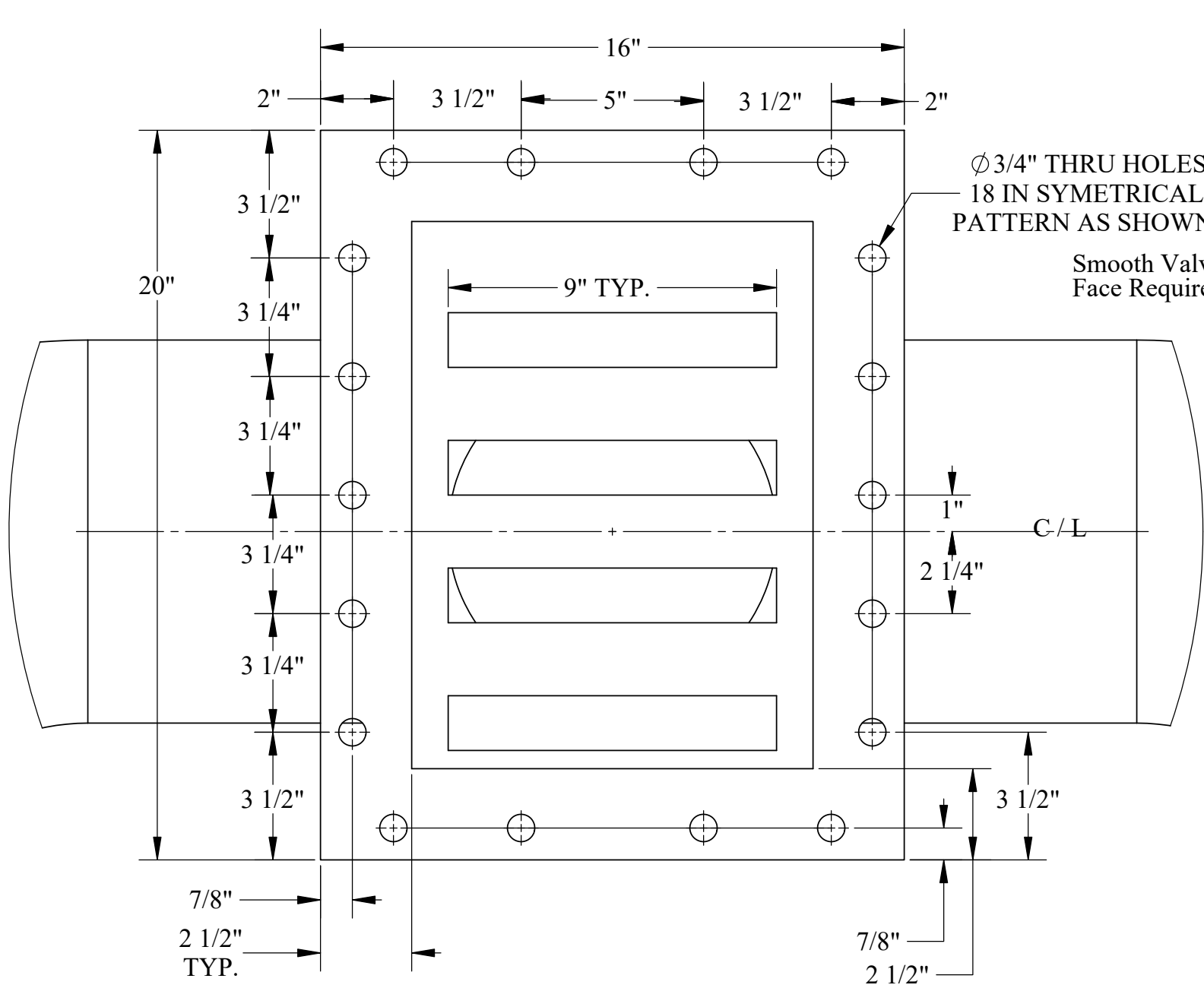
THE THROTTLE AND INJECTOR ASSEMBLY.
CONTROLS BOTH VACUUM AND STEAM
FOR ENGINE OPERATION. LINKAGE AND
ROUTINGS TO THE CONDENSER ARE
UNKNOWN.



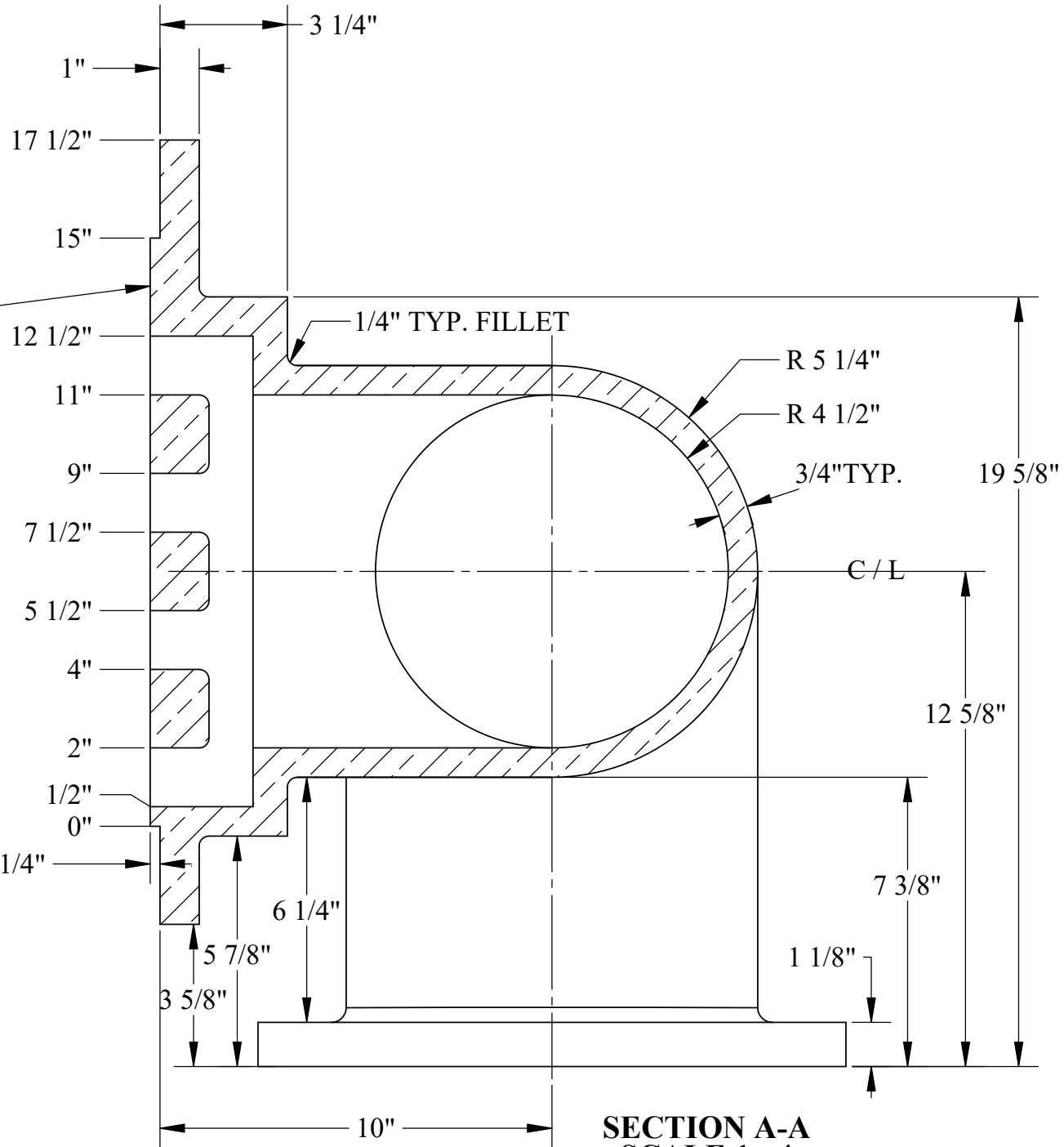
COMPONENTS OF ST 18 ASSEMBLY
INSTALLED IN ABOVE VIEW

U.S.S. Monitor Steam Engine

| | | |
|-------------------------|--|---|
| Material VARIOUS | Drawn By - Date RWC 12-2018 | Sub-Assembly Steam Pipe and Throttle |
| Weight (Lbs) 1189.82 | Description Steam Pipe and Throttle Assembly | |
| Scale 1 : 8 | | |
| Part # ST 1 | | |



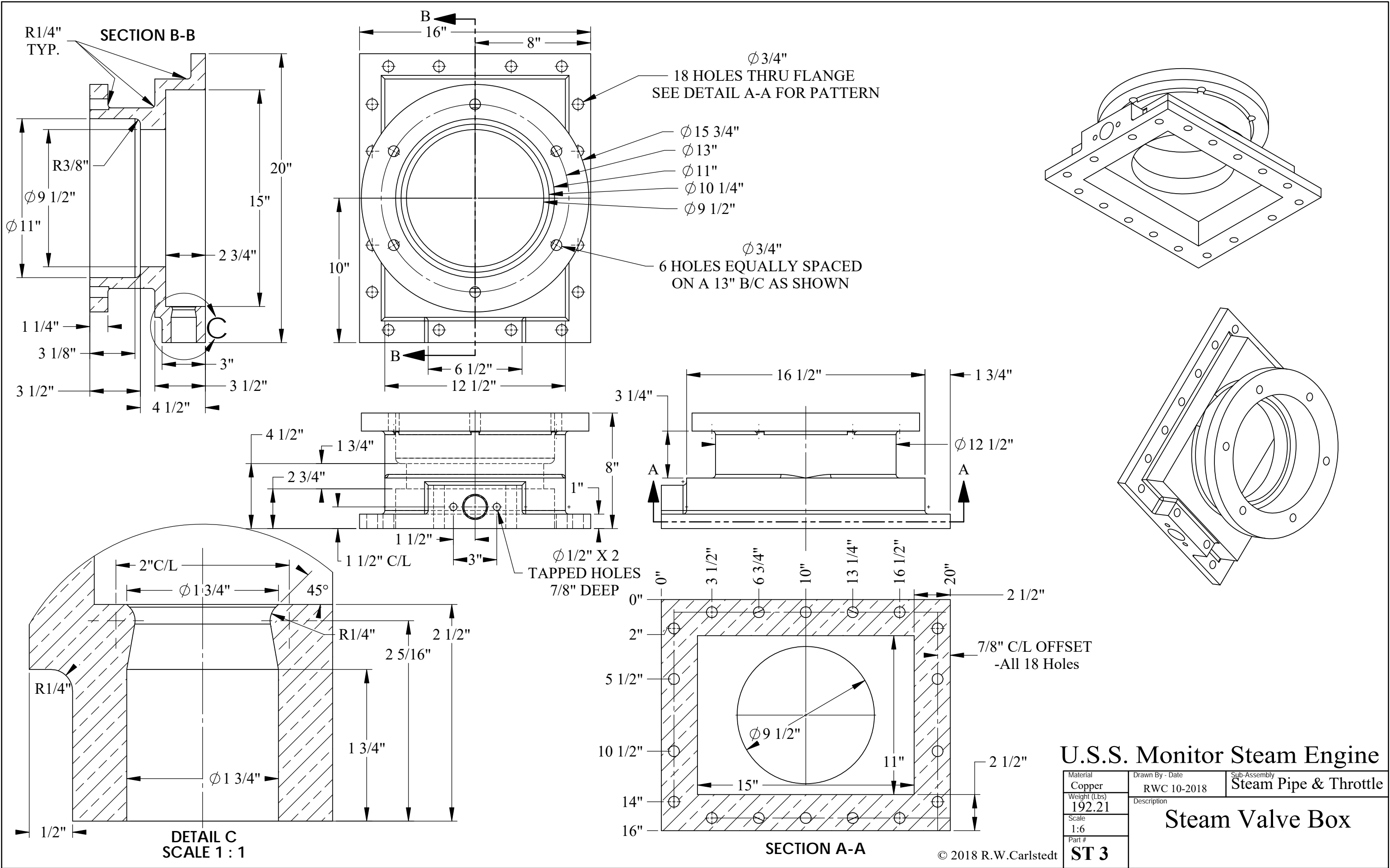
DETAIL B
SCALE 1 : 4
THROTTLE BOX MOUNTING

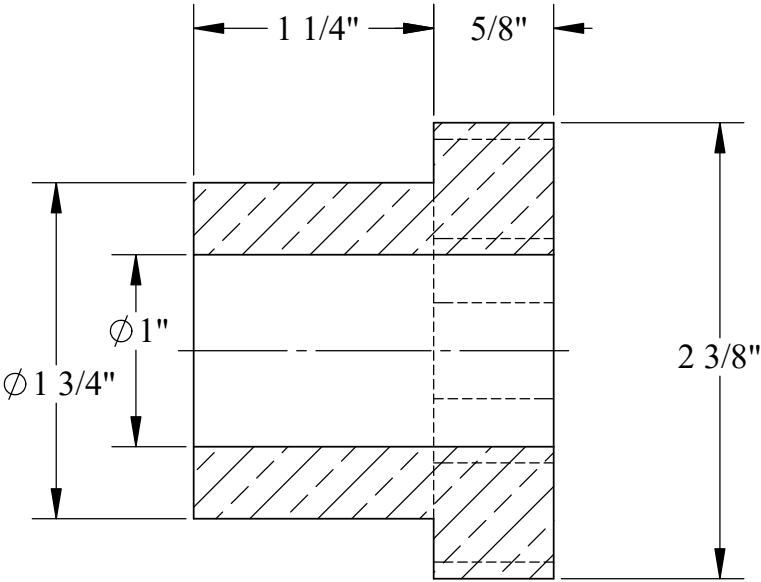
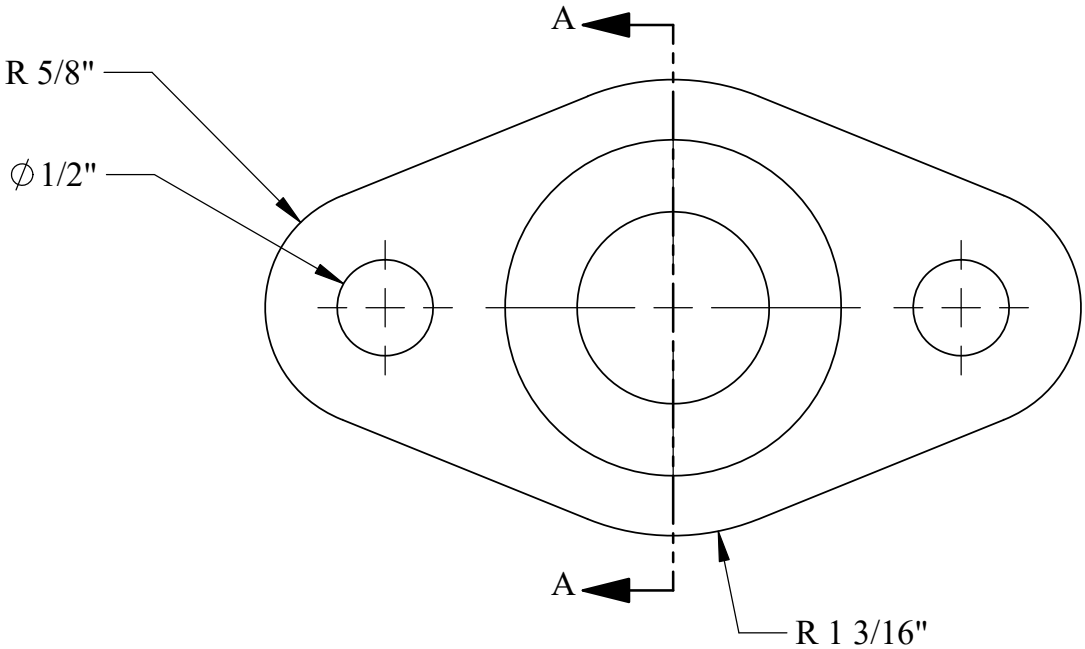
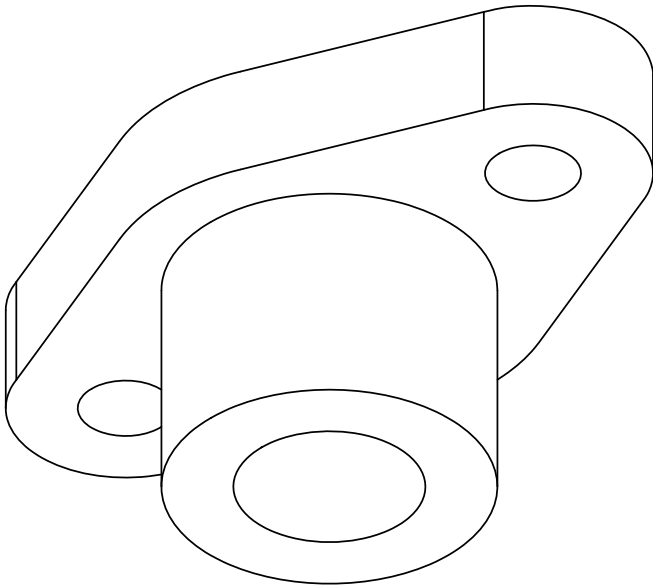
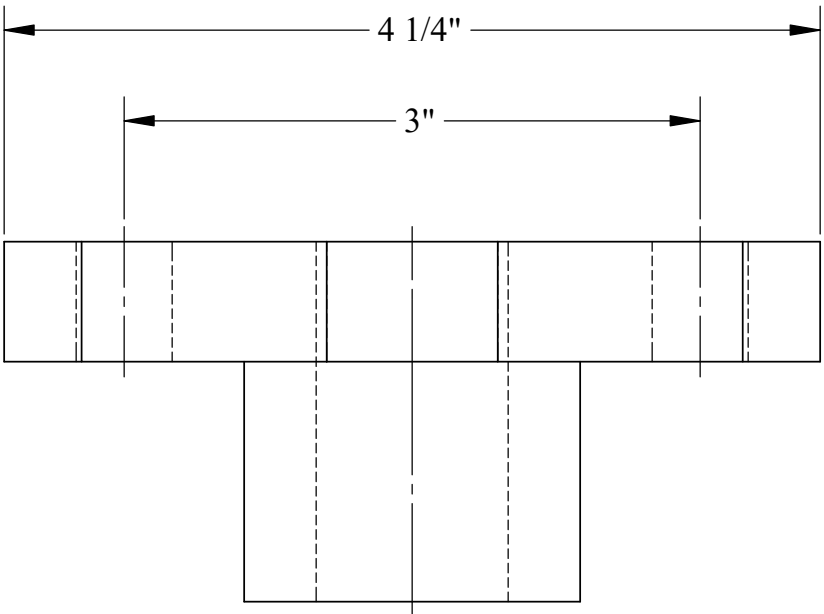


SECTION A-A
SCALE 1 : 4
THROTTLE FACE
DETAIL

U.S.S. Monitor Steam Engine

| | | |
|------------------------|--|---------------------------------------|
| Material Copper | Drawn By - Date RWC 10-2018 | Sub-Assembly Steam Pipe & Throttle |
| Weight (Lbs) 694.74 | Description Steam Pipe SHEET 2 OF 2 | |
| Scale 1:4 | | |
| Part # ST 2 | | |

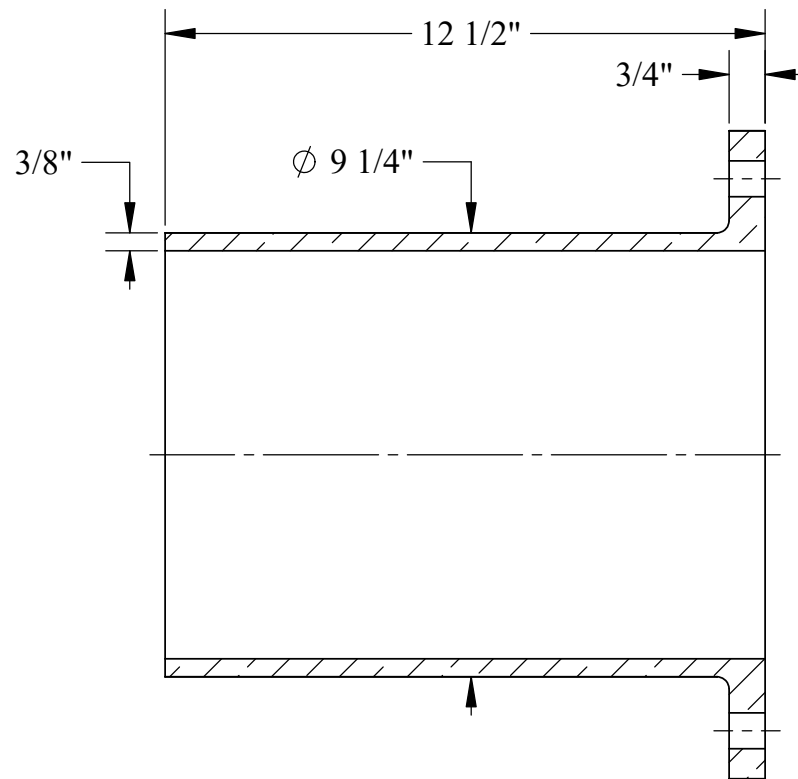
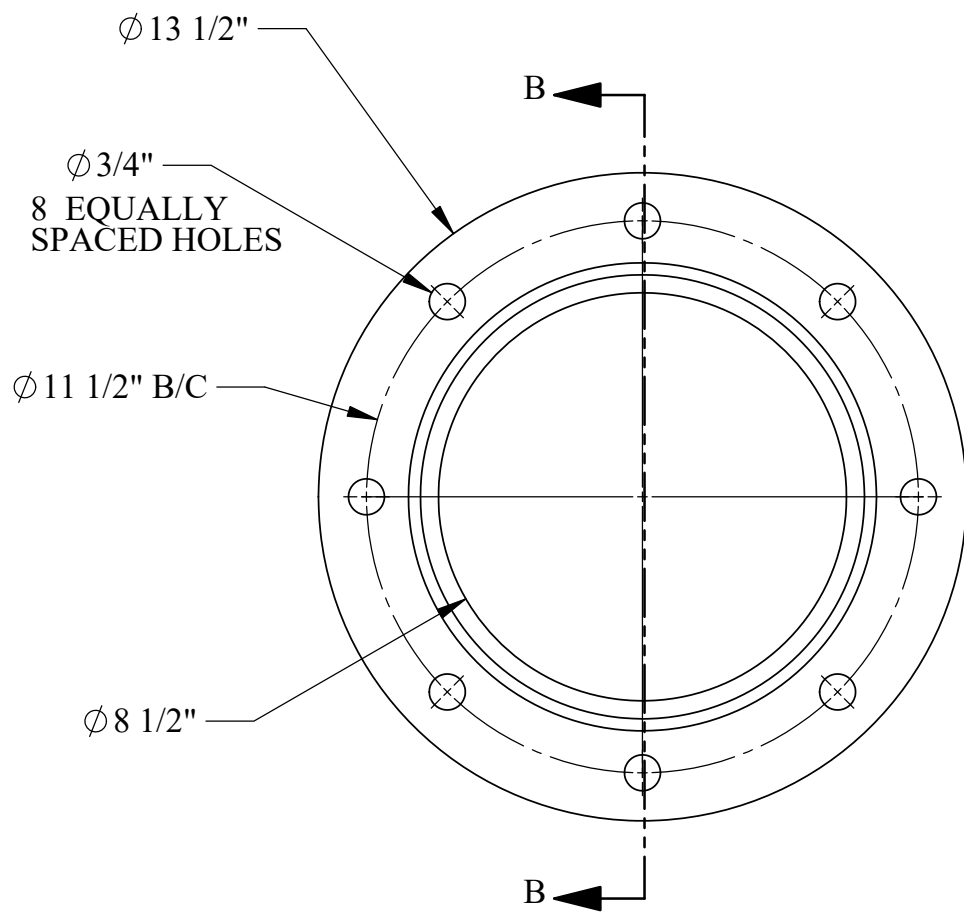
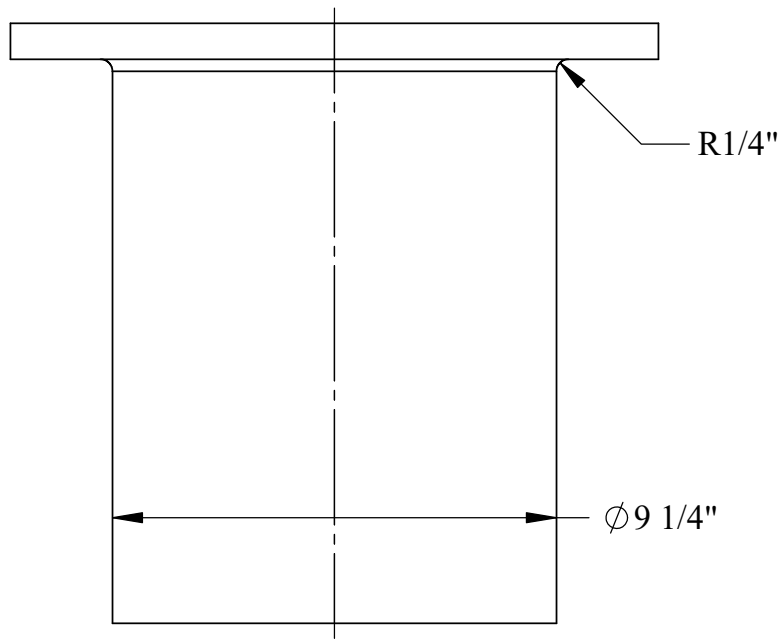




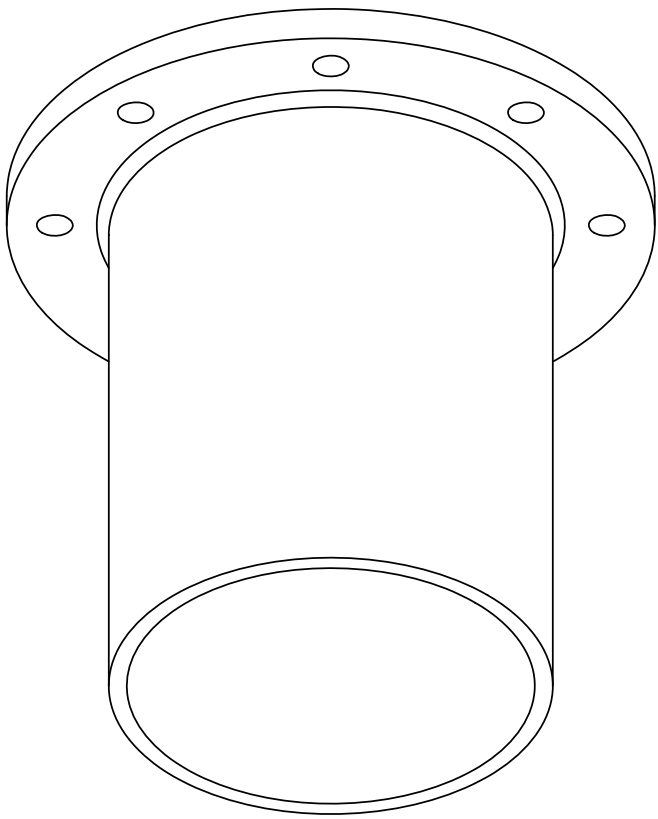
SECTION A-A
SCALE 1 : 1

U.S.S. Monitor Steam Engine

| | | |
|----------------------|---|---------------------------------------|
| Material Brass | Drawn By - Date RWC 10-2018 | Sub-Assembly Steam Pipe & Throttle |
| Weight (Lbs) 1.75 | Description Steam Valve Box Packing Gland | |
| Scale 1:12 | | |
| Part # ST 4 | | |

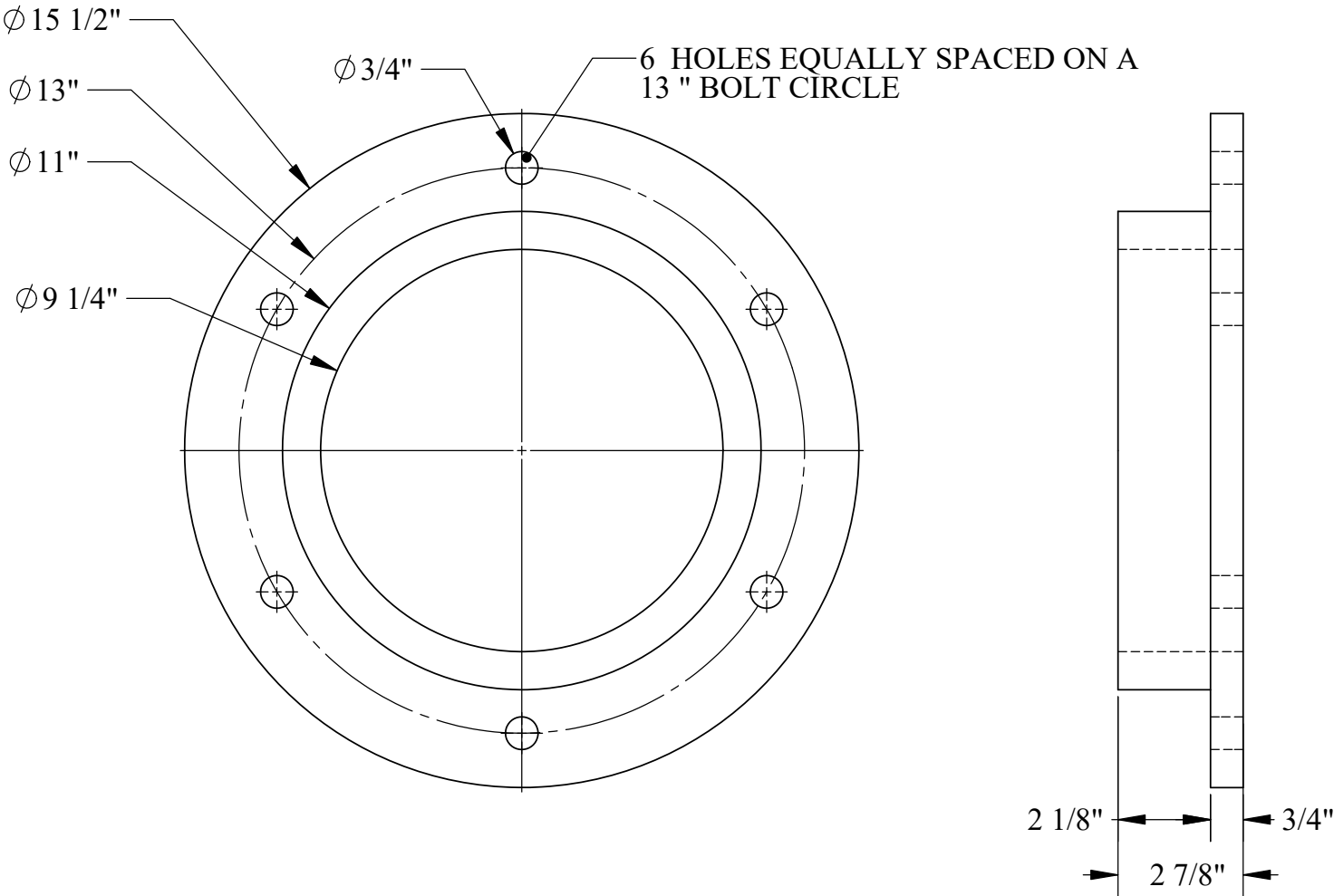
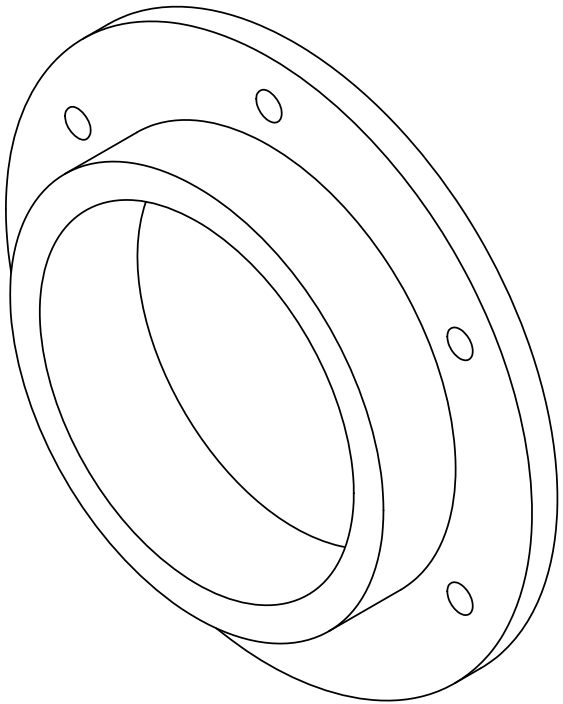
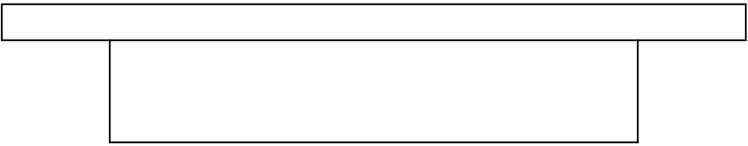


SECTION B-B
SCALE 1 : 4



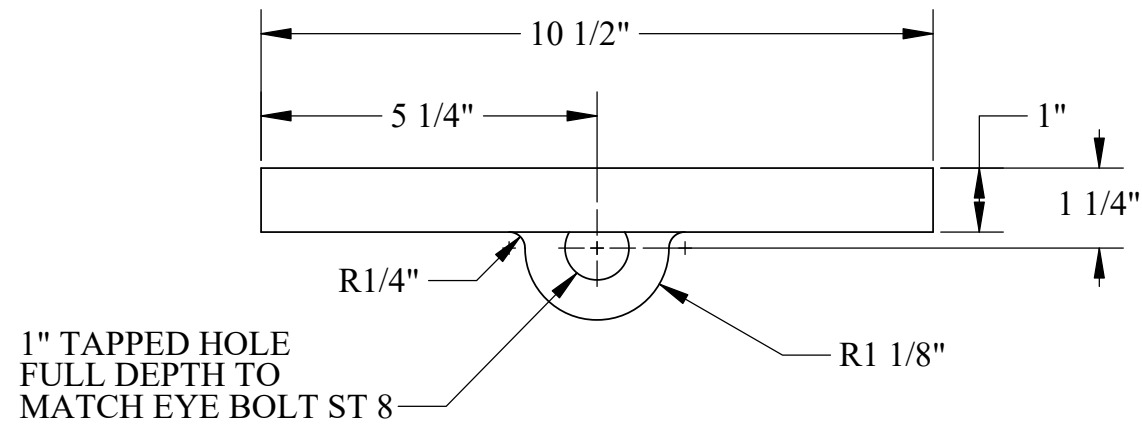
U.S.S. Monitor Steam Engine

| | | |
|-----------------------|--------------------------------|---------------------------------------|
| Material Bronze | Drawn By - Date RWC 10-2018 | Sub-Assembly Steam Pipe & Throttle |
| Weight (Lbs) 55.59 | Slip Joint | |
| Scale 1:4 | | |
| Part # ST 5 | | |

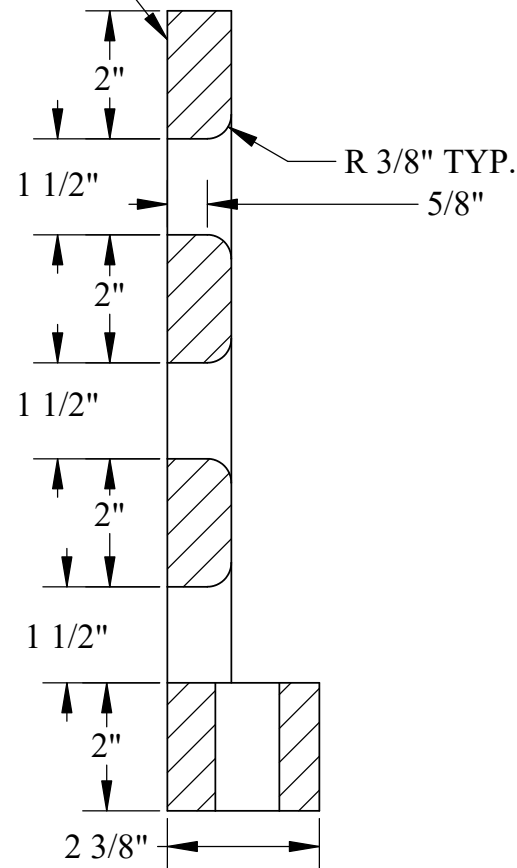
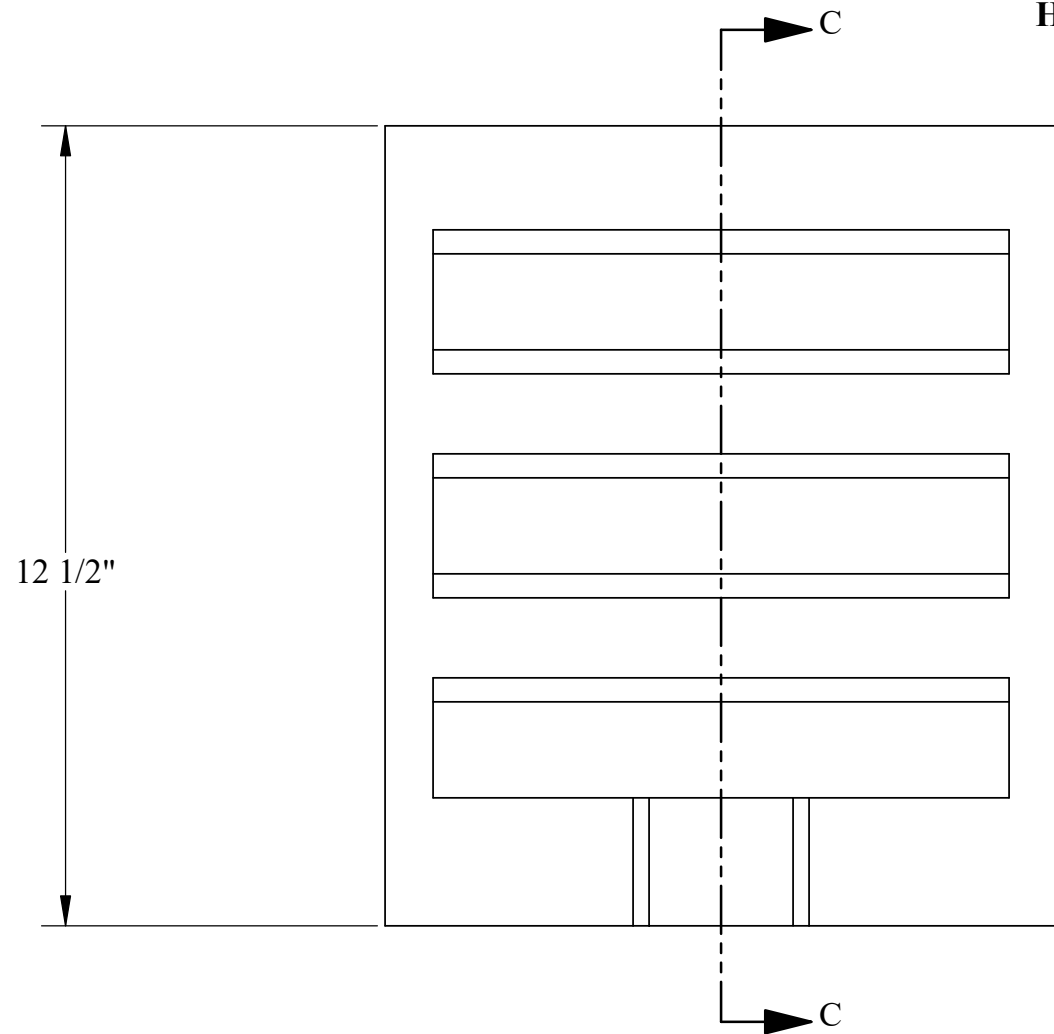


U.S.S. Monitor Steam Engine

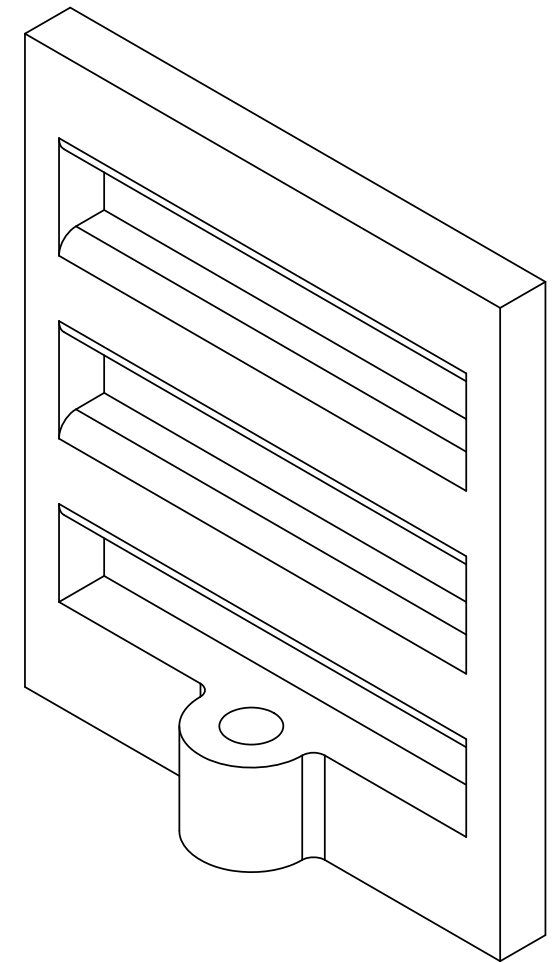
| | | |
|-----------------------|--------------------------------|---------------------------------------|
| Material Bronze | Drawn By - Date RWC 10-2018 | Sub-Assembly Steam Pipe & Throttle |
| Weight (Lbs) 44.46 | Slip Joint Packing Gland | |
| Scale 1:4 | | |
| Part # ST 6 | | |



THIS IS A VALVE
SURFACE AND MUST
HAVE A HIGH FINISH



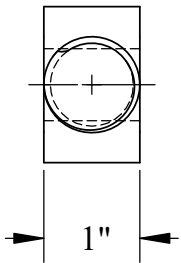
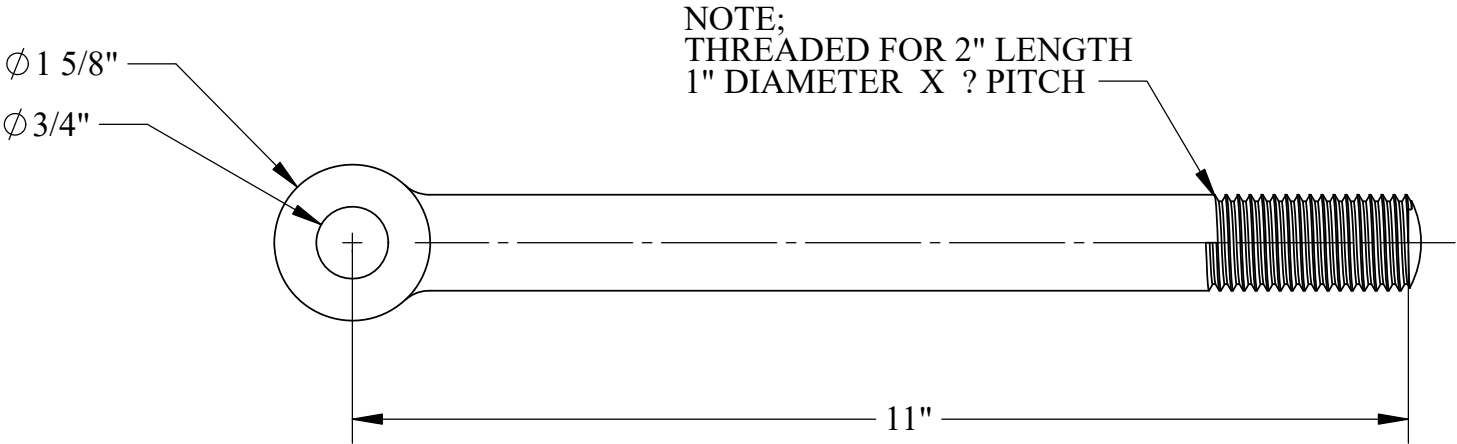
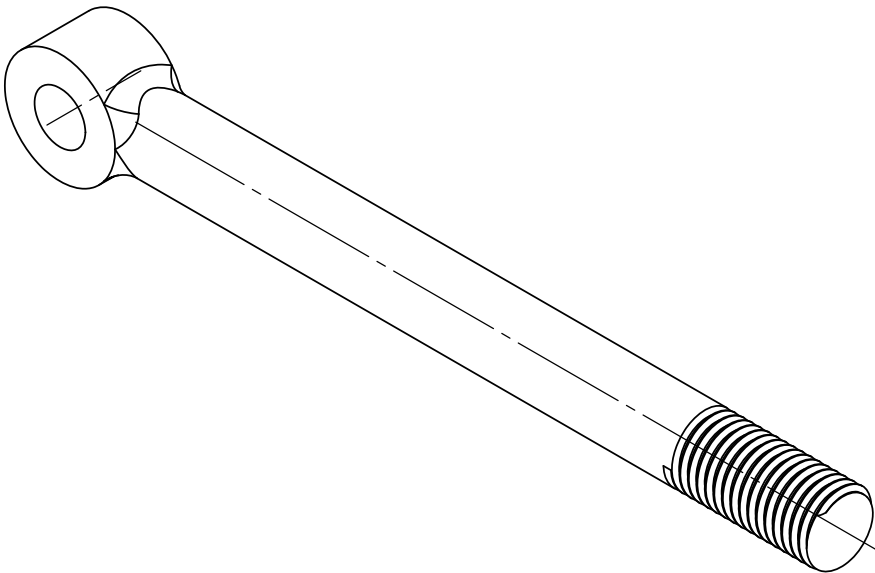
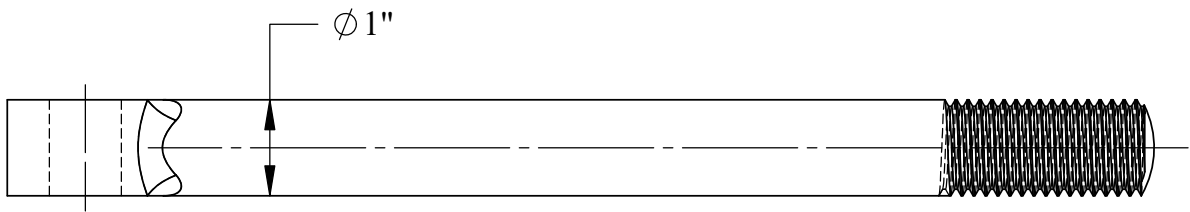
SECTION C-C



NOTE:
GRID VALVES ARE ALSO SOMETIMES
REFERRED TO AS "GRATE" VALVES
DUE TO THE VISUAL IMAGE

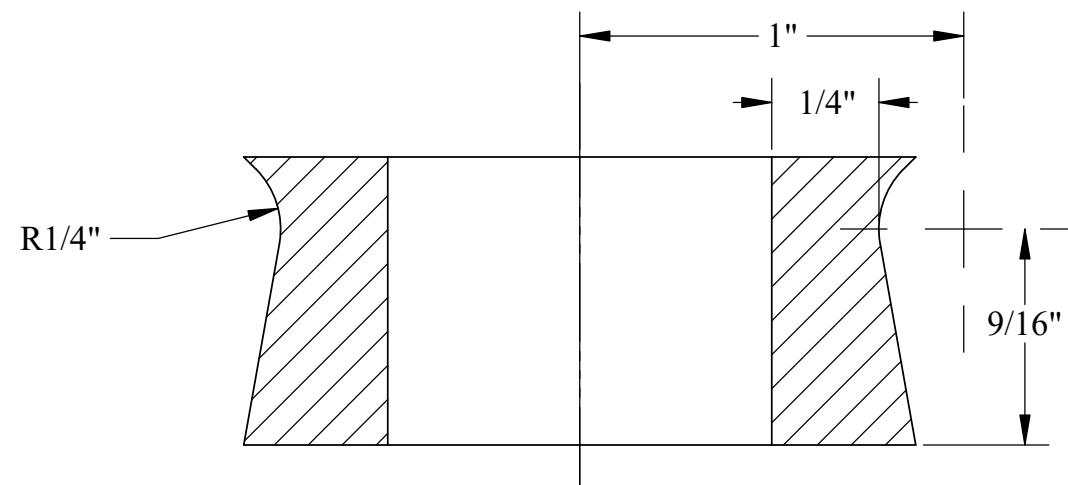
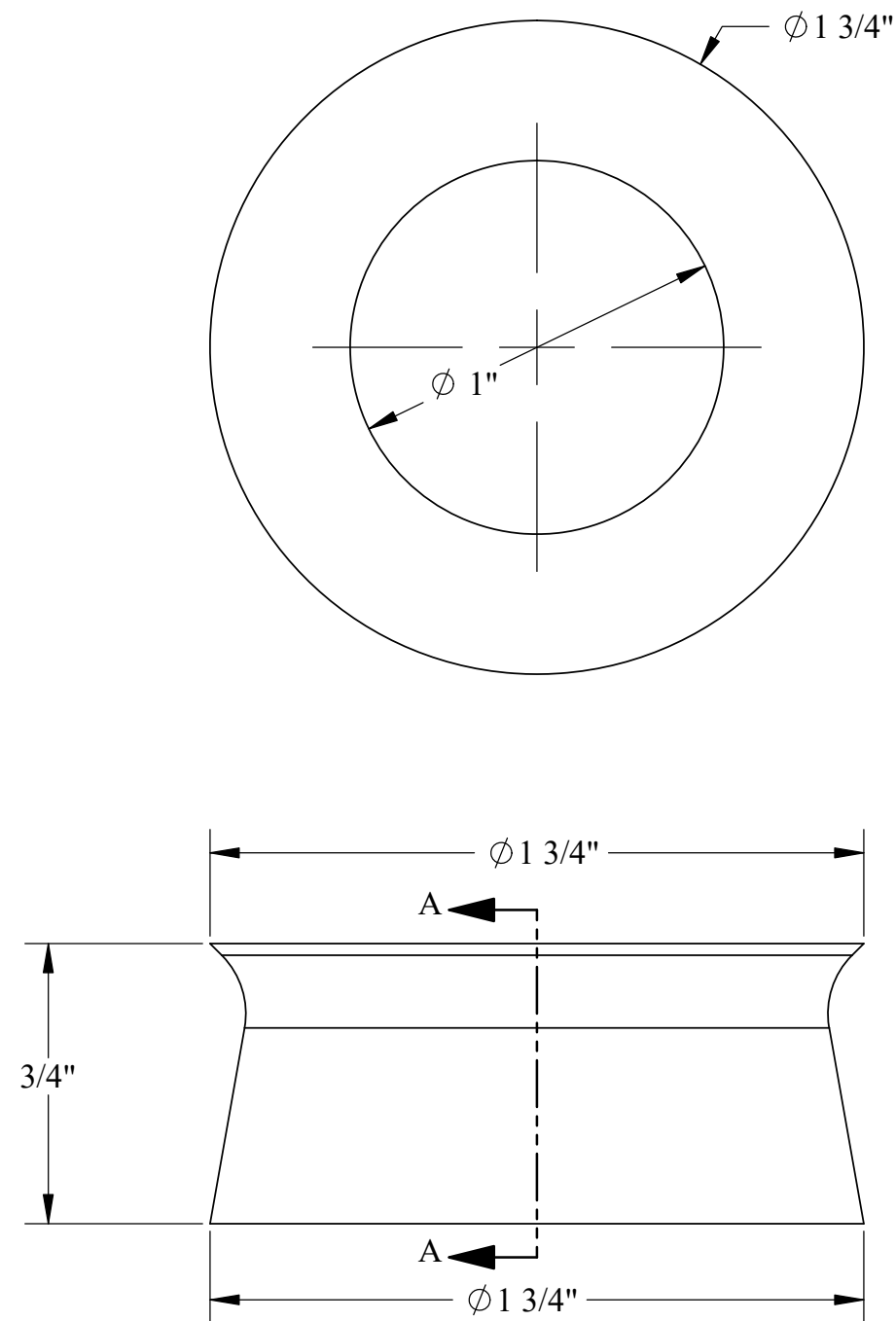
U.S.S. Monitor Steam Engine

| | | |
|------------------------|--|---------------------------------------|
| Material Cast Iron | Drawn By - Date RWC 12-2018 | Sub-Assembly Steam Pipe & Throttle |
| Weight (Lbs) 24.185 | Description Grid Throttle Valve | |
| Scale 1:3 | | |
| Part # ST 7 | | |



U.S.S. Monitor Steam Engine

| | | |
|-----------------------|---|---------------------------------------|
| Material STEEL | Drawn By - Date RWC 10-2018 | Sub-Assembly Steam Pipe & Throttle |
| Weight (Lbs) 2.71 | Description Grid Valve Eye Bolt | |
| Scale 1:2 | | |
| Part # ST 8 | | |

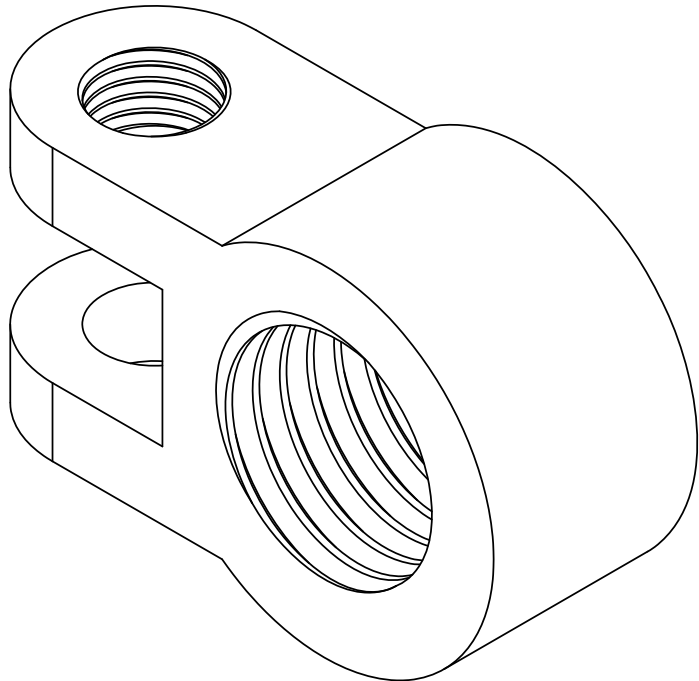
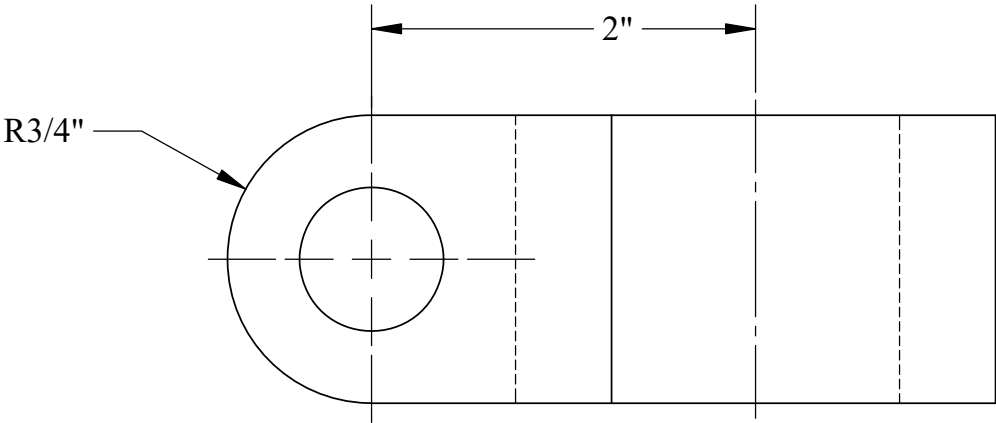


SECTION A-A

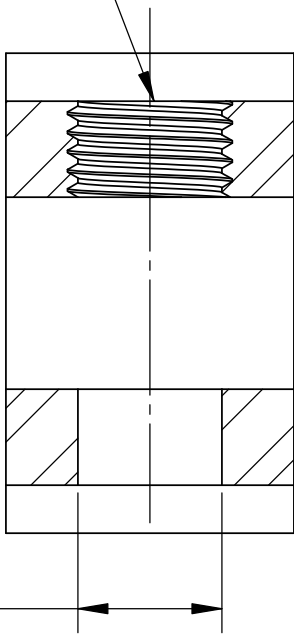
NOTE;
THIS IS THE FORM OF THE BEARING &
SEAL THAT IS CAST IN THE STEAM
THROTTLE BOX- (ST 3)

U.S.S. Monitor Steam Engine

| | | |
|-----------------------|--|---------------------------------------|
| Material Babbitt | Drawn By - Date RWC 10-2018 | Sub-Assembly Steam Pipe & Throttle |
| Weight (Lbs) 0.26 | Description Babbitt Packing-Eye Bolt | |
| Scale 2:1 | | |
| Part # ST 9 | | |

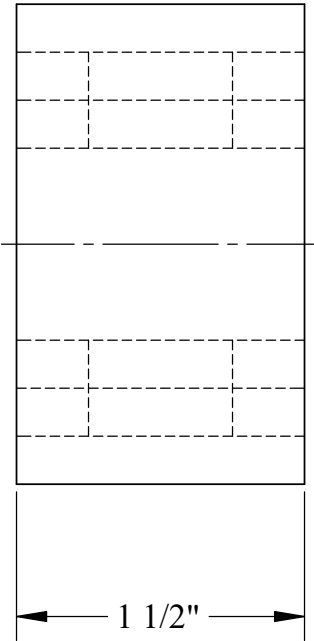
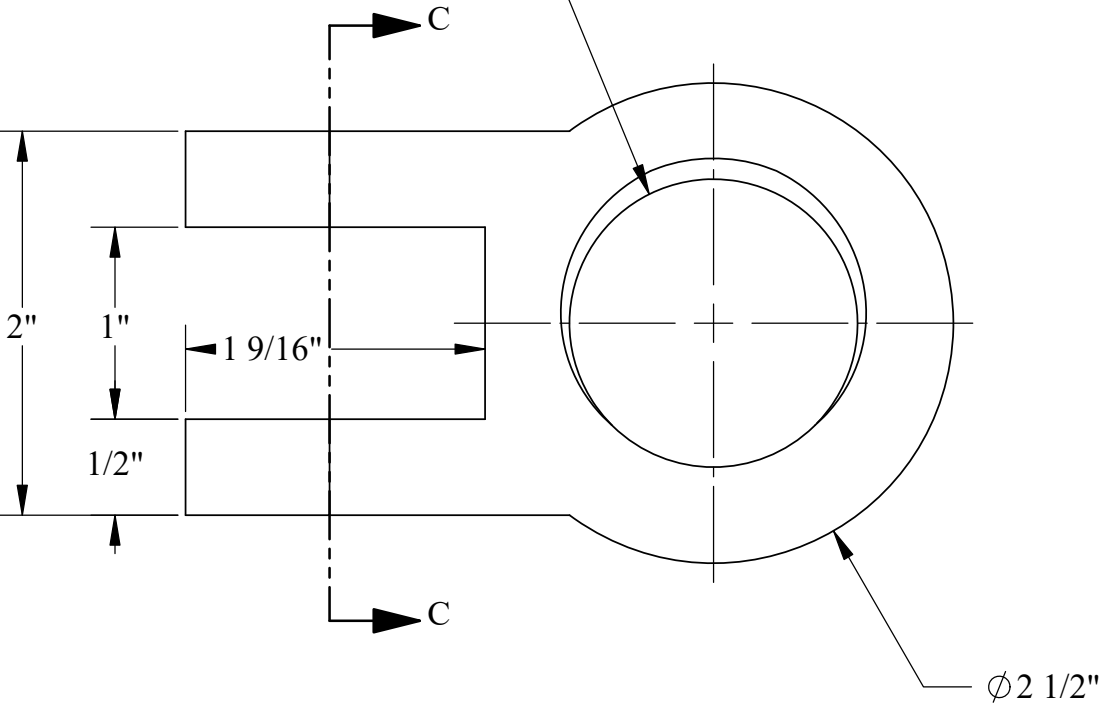


NOTE:
3/4" THREAD - TAPPED
ONE SIDE ONLY



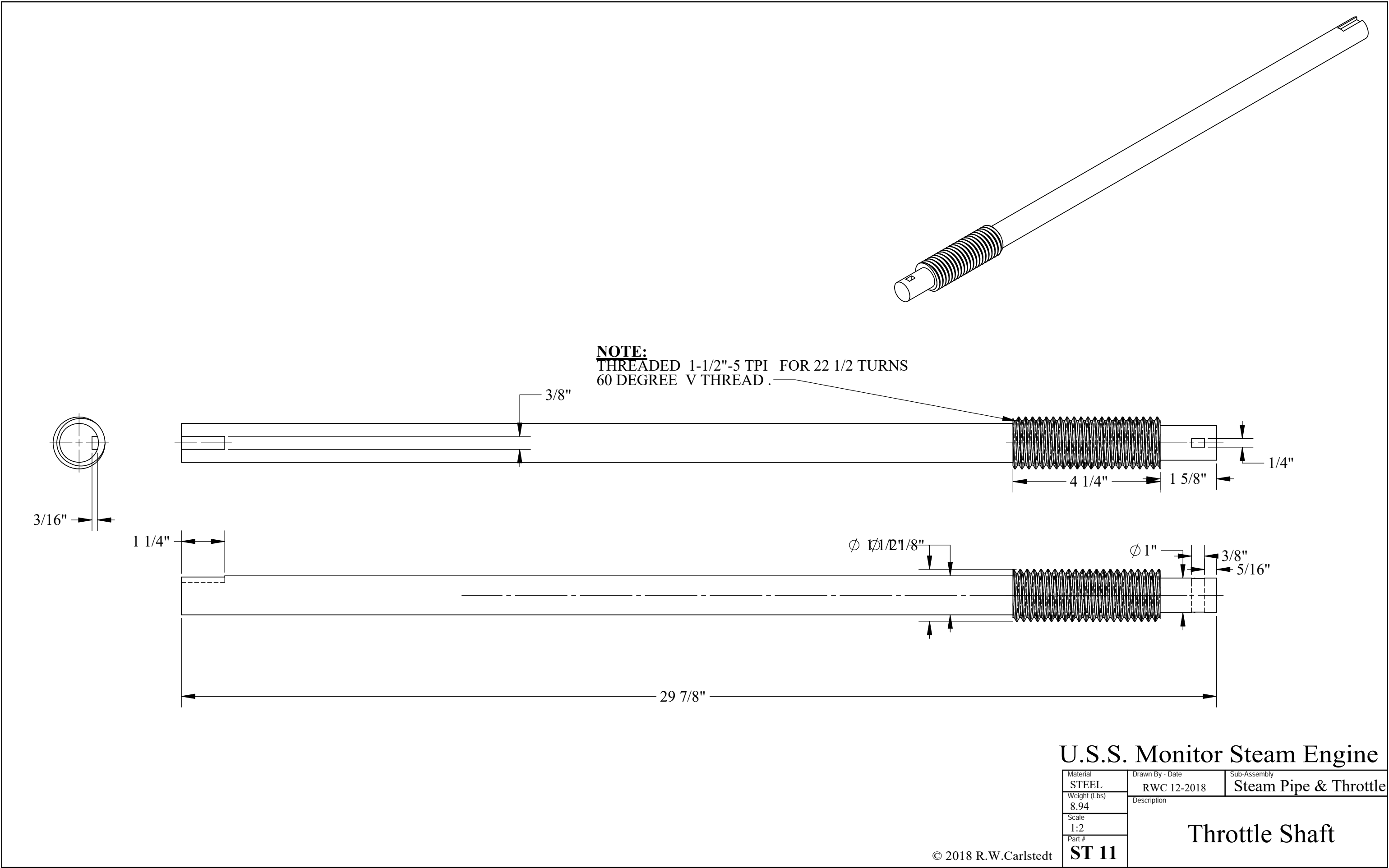
SECTION C-C

NOTE:
1-1/2" DIAM. THREAD TAPPED -
5 THREADS PER INCH PITCH
TO MATCH SHAFT



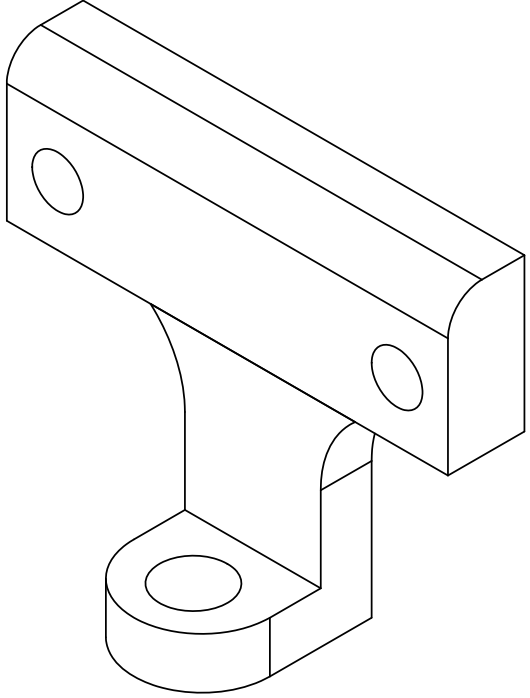
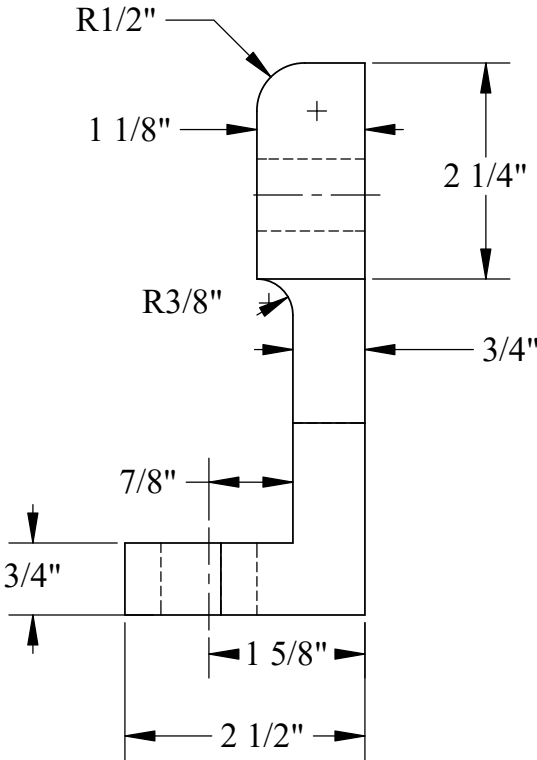
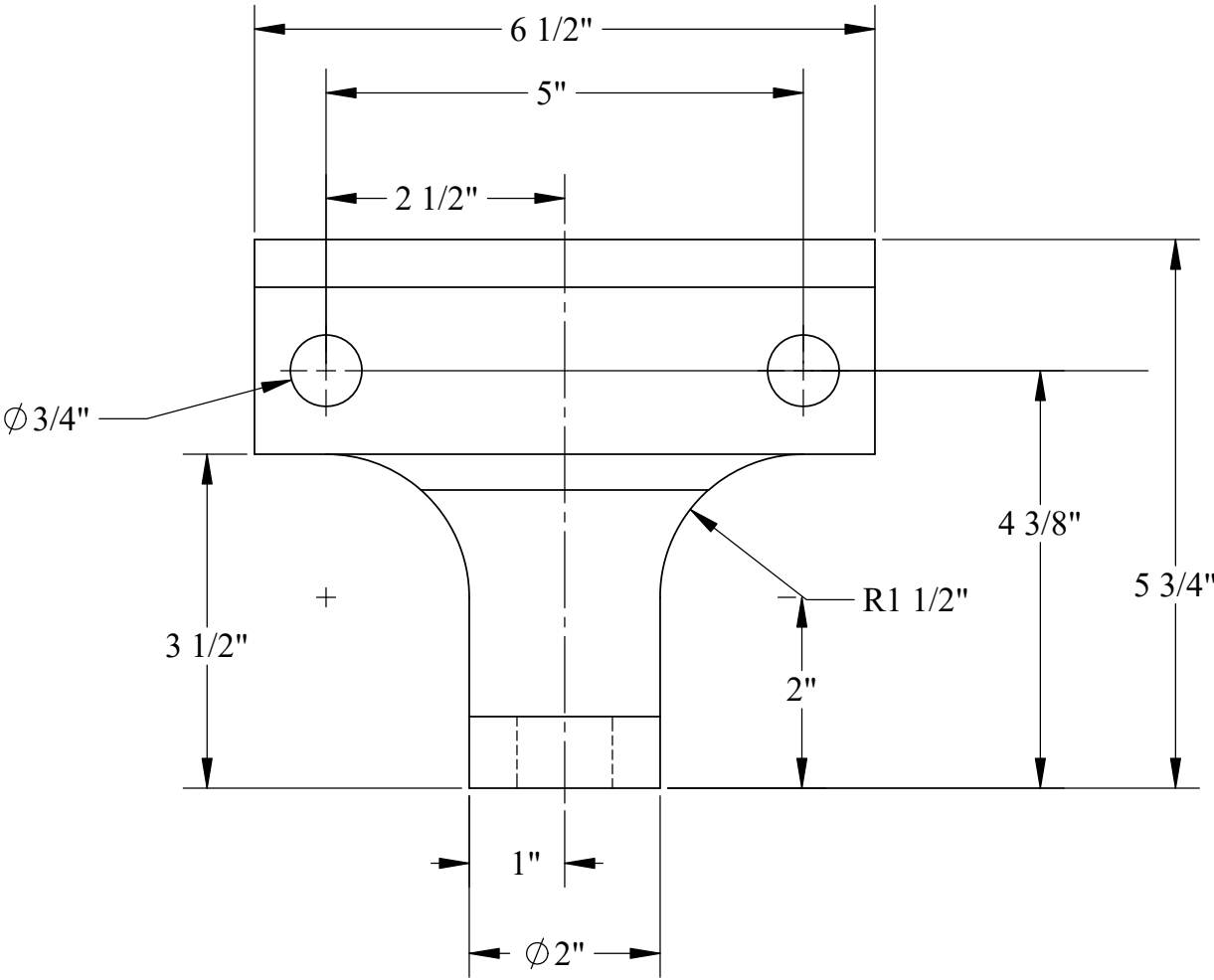
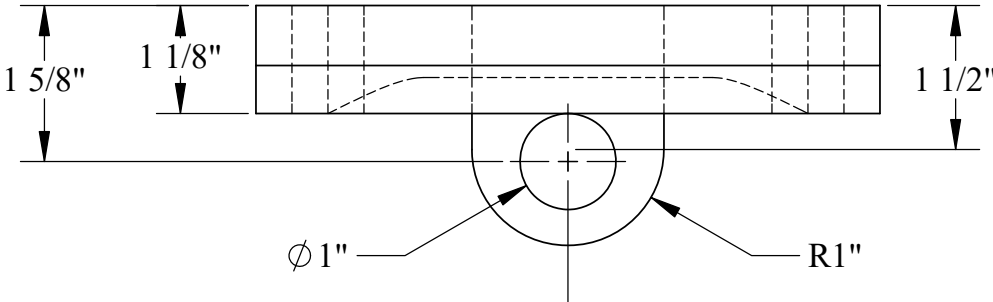
U.S.S. Monitor Steam Engine

| | | |
|------------------------|--|---------------------------------------|
| Material STEEL | Drawn By - Date RWC 10-2018 | Sub-Assembly Steam Pipe & Throttle |
| Weight (Lbs) 1.786 | Description Throttle Shaft Nut | |
| Scale 1:1 | | |
| Part # ST 10 | | |



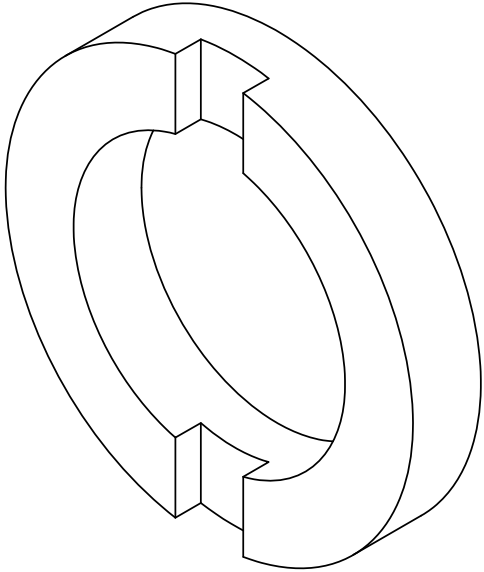
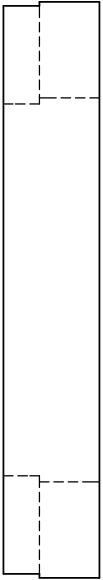
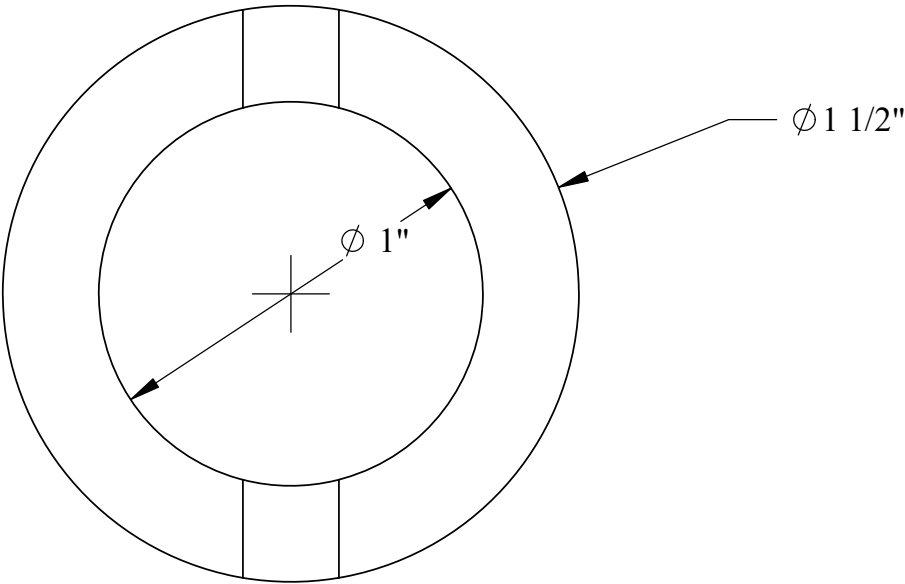
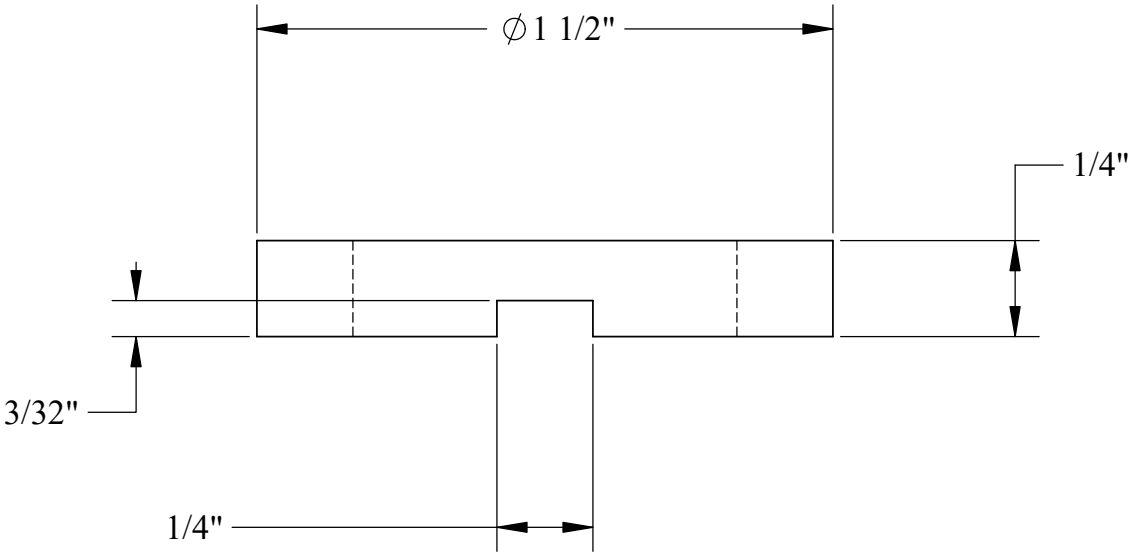
U.S.S. Monitor Steam Engine

| | | |
|----------------------|-----------------------------------|---------------------------------------|
| Material STEEL | Drawn By - Date RWC 12-2018 | Sub-Assembly Steam Pipe & Throttle |
| Weight (Lbs) 8.94 | Description Throttle Shaft | |
| Scale 1:2 | | |
| Part # ST 11 | | |



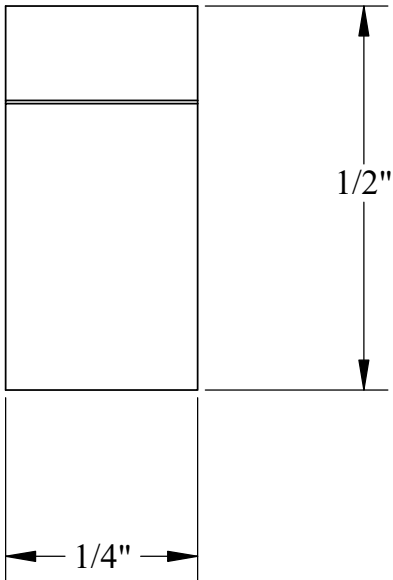
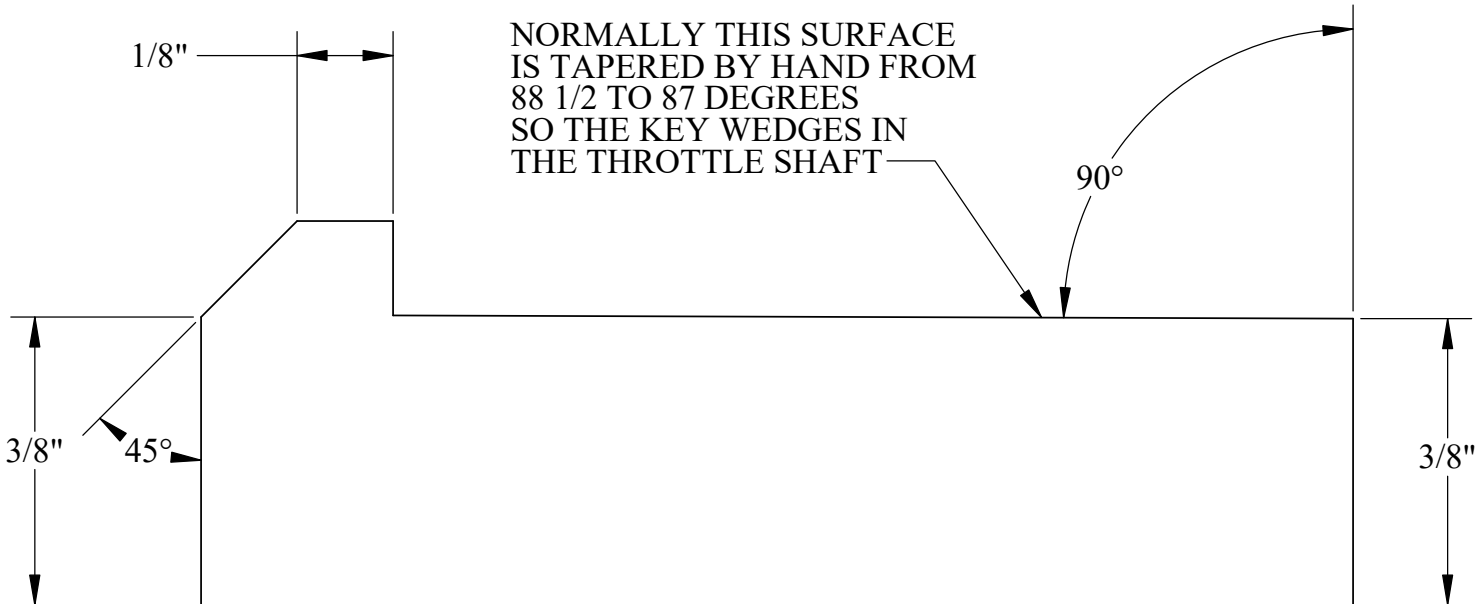
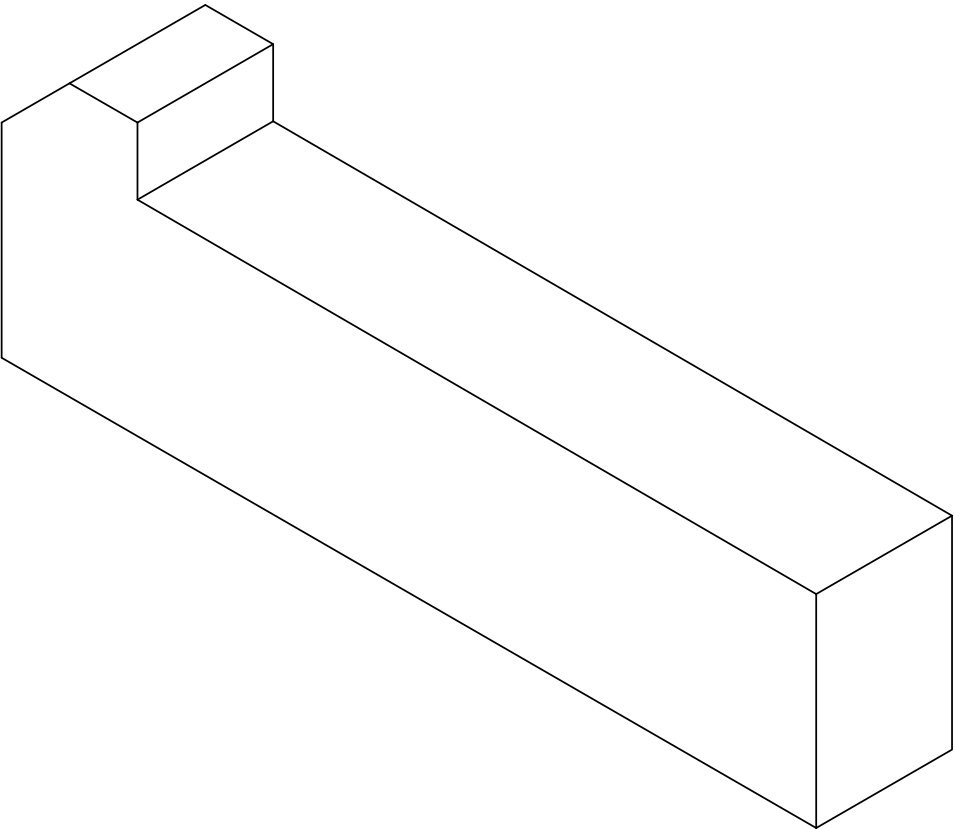
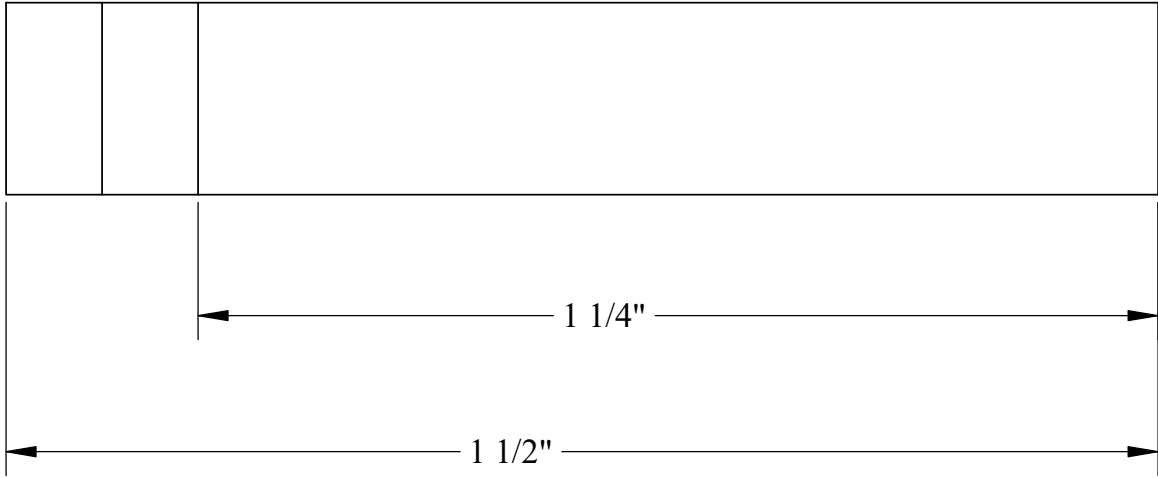
U.S.S. Monitor Steam Engine

| | | |
|----------------------|--------------------------------|---------------------------------------|
| Material STEEL | Drawn By - Date RWC 12-2018 | Sub-Assembly Steam Pipe & Throttle |
| Weight (Lbs) 6.54 | Throttle Shaft Bracket- Top | |
| Scale 1:2 | | |
| Part # ST 12 | | |



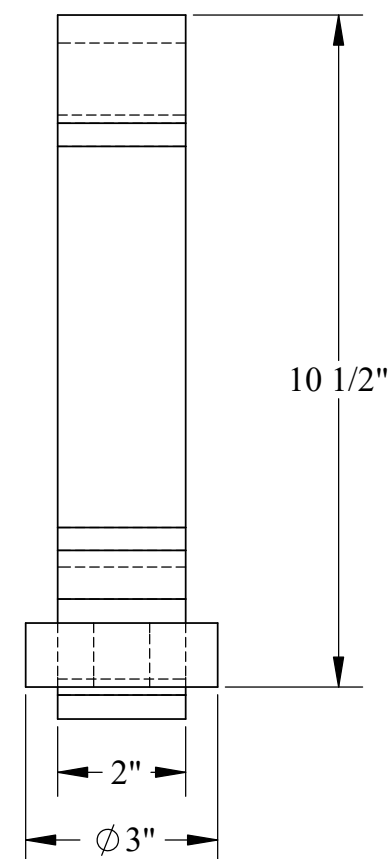
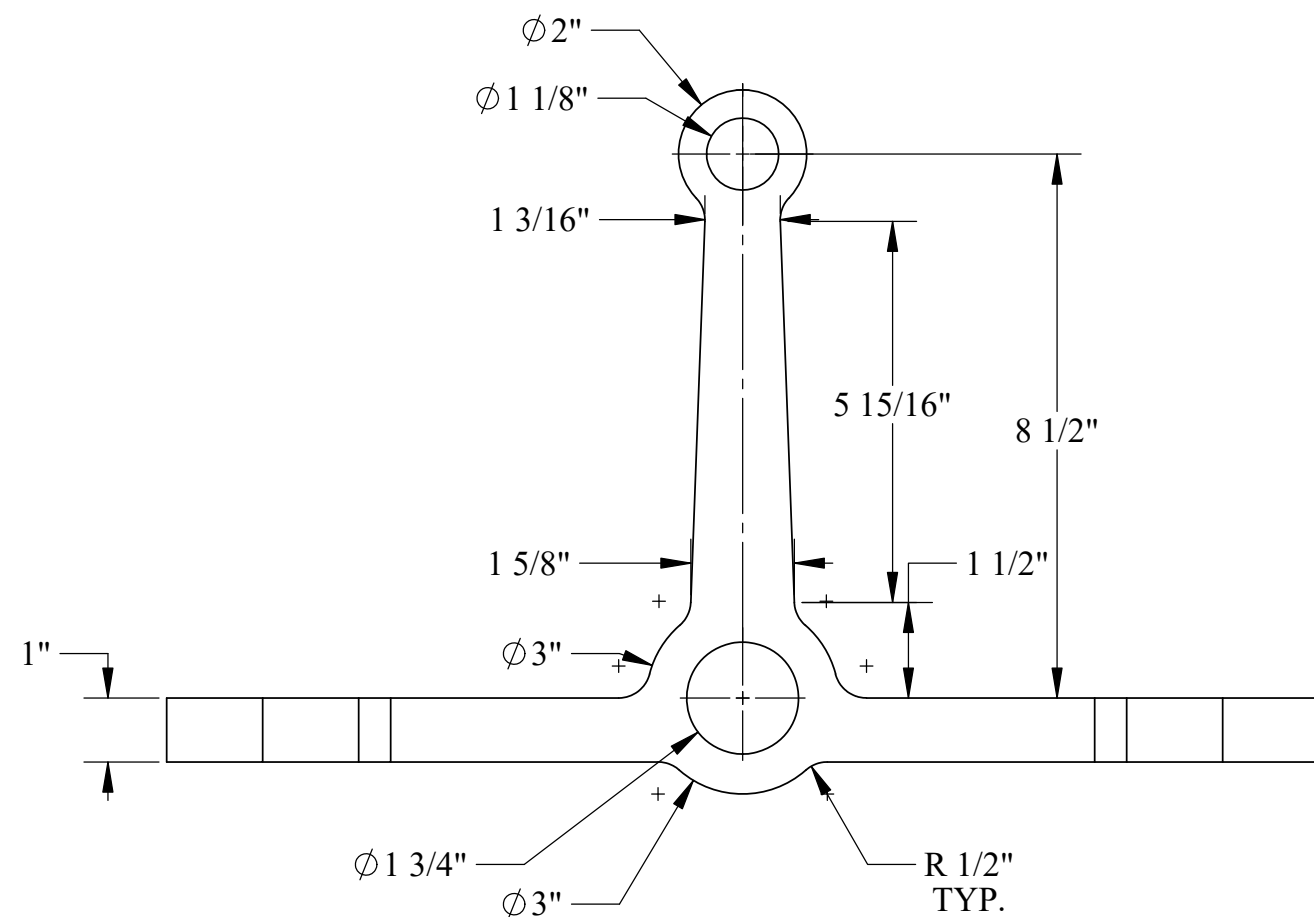
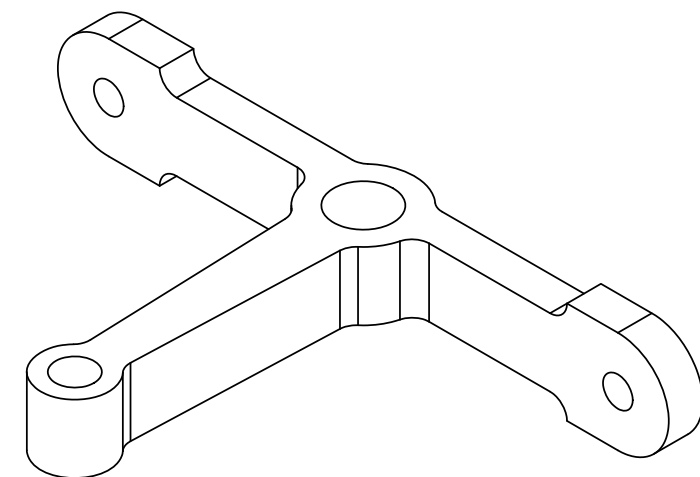
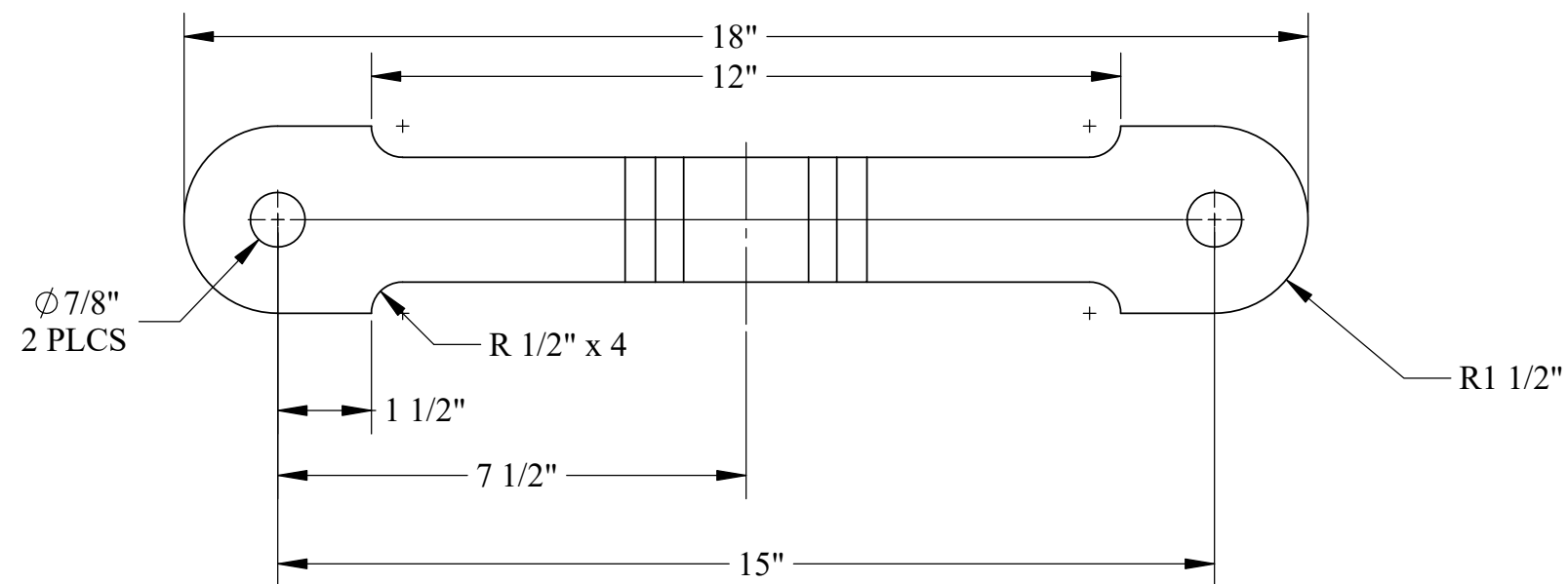
U.S.S. Monitor Steam Engine

| | | |
|----------------------|---|---------------------------------------|
| Material STEEL | Drawn By - Date RWC 12-2018 | Sub-Assembly Steam Pipe & Throttle |
| Weight (Lbs) 0.07 | Description Throttle Shaft Bracket Washer | |
| Scale 3:1 | | |
| Part # ST 13 | | |



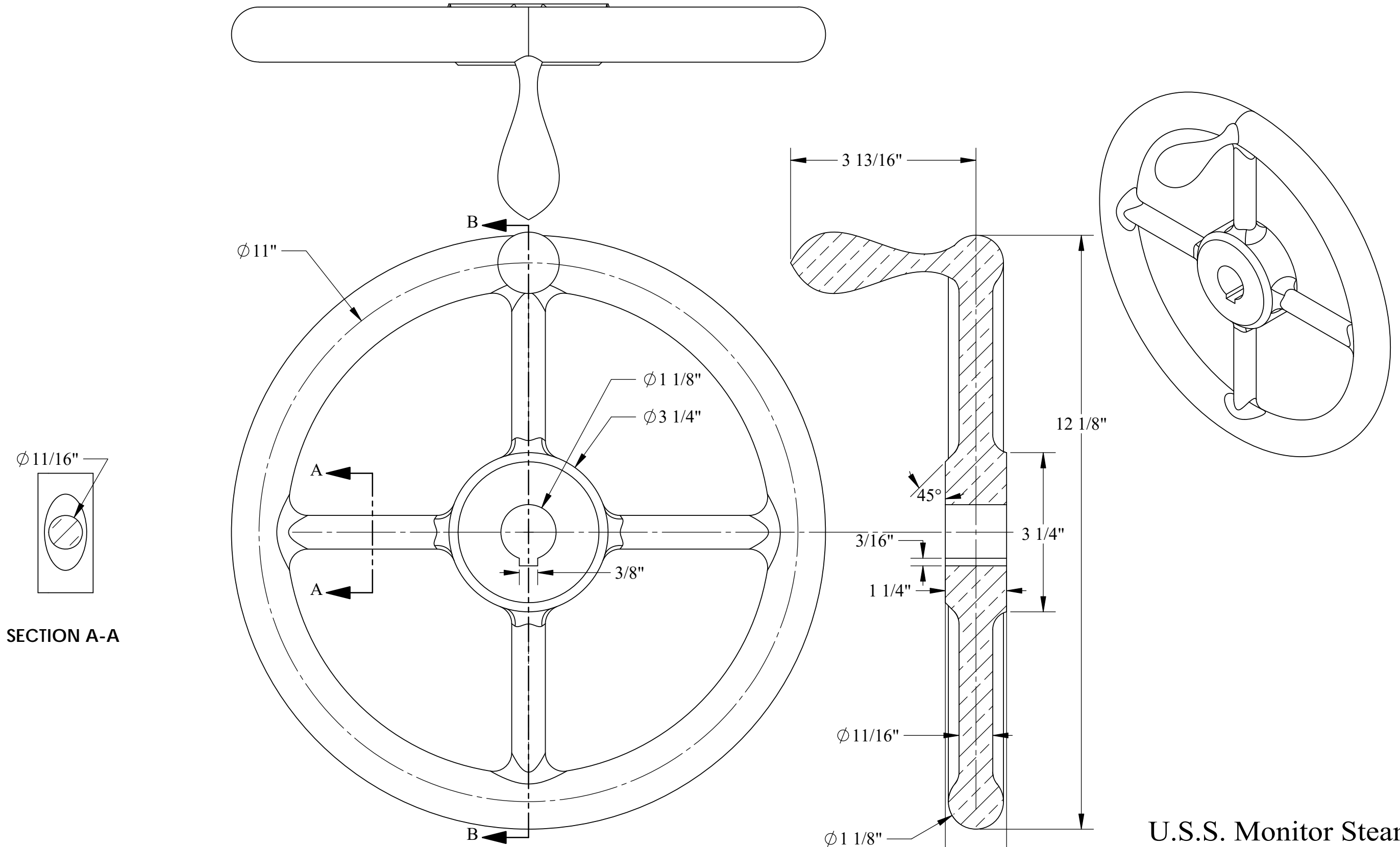
U.S.S. Monitor Steam Engine

| | | |
|----------------------|--------------------------------|---------------------------------------|
| Material STEEL | Drawn By - Date RWC 10-2018 | Sub-Assembly Steam Pipe & Throttle |
| Weight (Lbs) 0.04 | Throttle Shaft Top Key | |
| Scale 4:1 | | |
| Part # ST 14 | | |



U.S.S. Monitor Steam Engine

| | | |
|------------------------|---|---------------------------------------|
| Material STEEL | Drawn By - Date RWC 12-2018 | Sub-Assembly Steam Pipe & Throttle |
| Weight (Lbs) 18.415 | Description Throttle Shaft Bracket- Lower | |
| Scale 1:3 | | |
| Part # ST 15 | | |

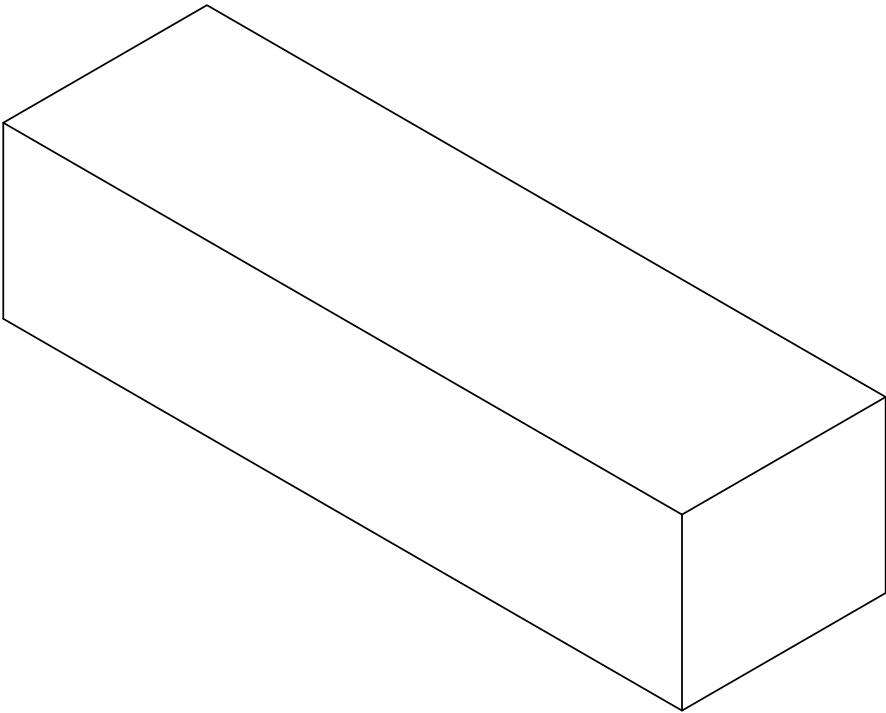
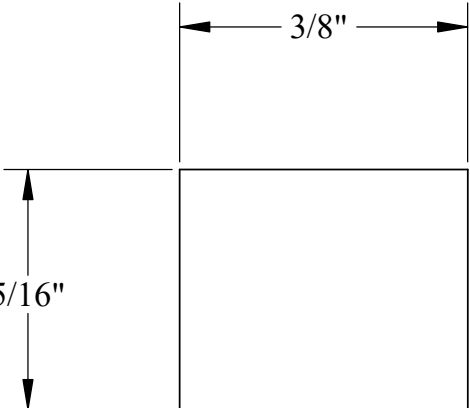
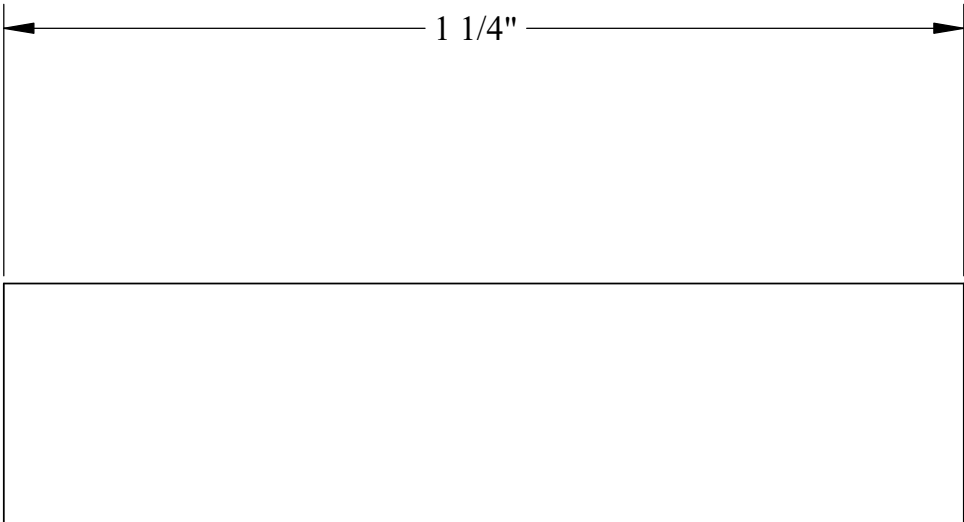
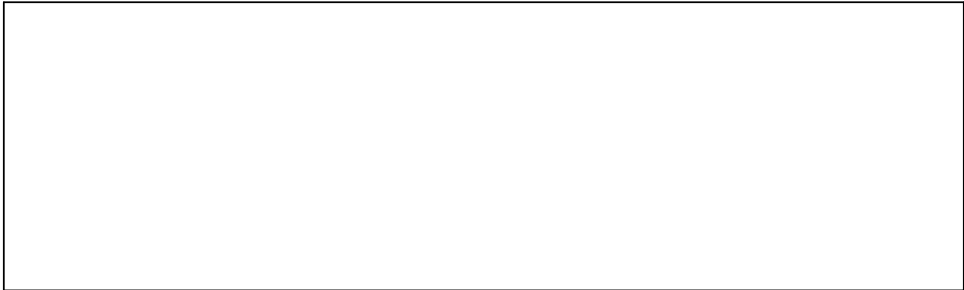


SECTION A-A

SECTION B-B

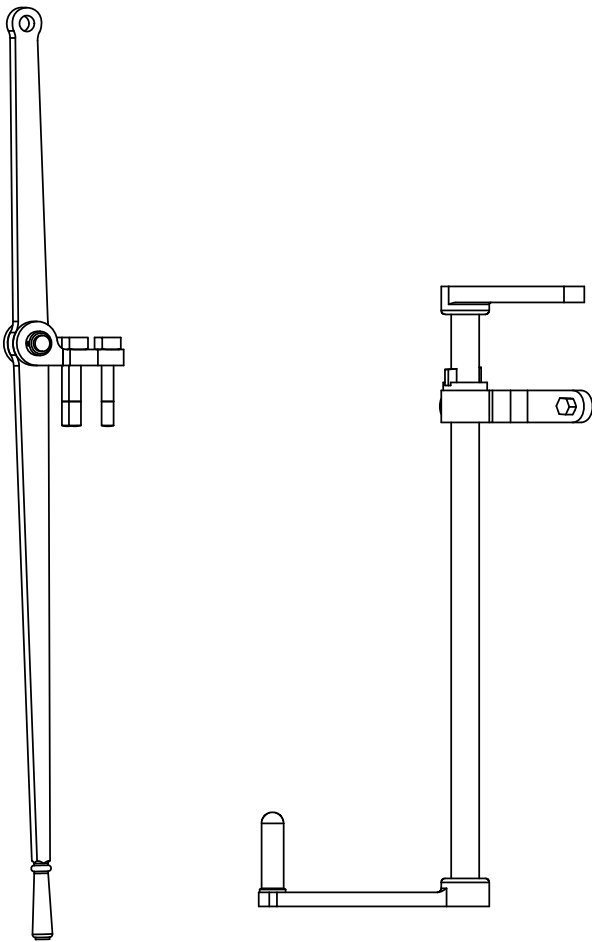
U.S.S. Monitor Steam Engine

| | | |
|------------------------|--|---------------------------------------|
| Material Brass | Drawn By - Date RWC 10-2018 | Sub-Assembly Steam Pipe & Throttle |
| Weight (Lbs) 15.46 | Description Throttle Wheel | |
| Scale 1:2 | | |
| Part # ST 16 | | |

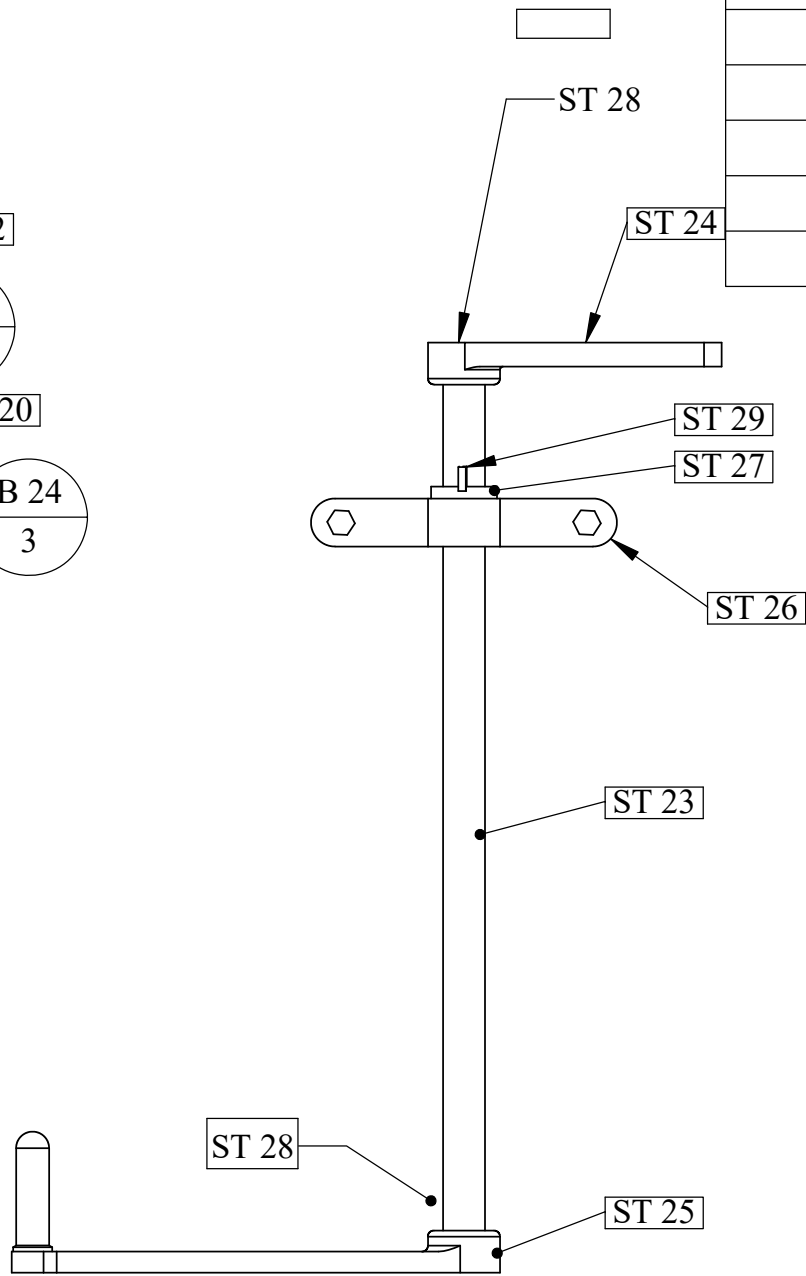
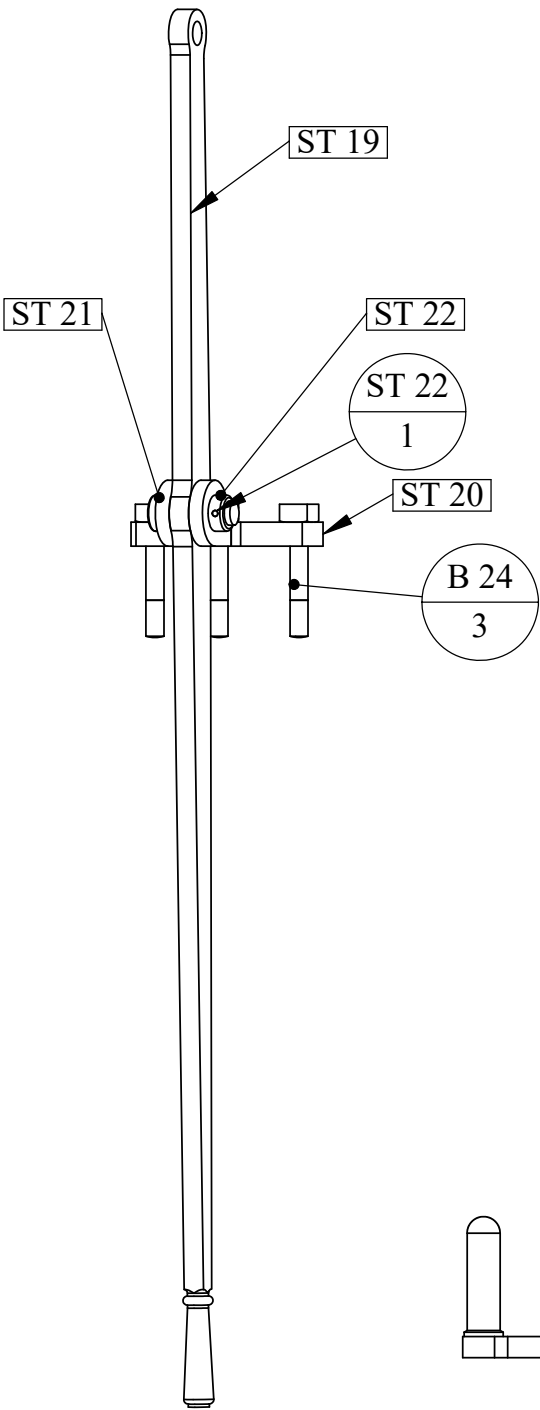


U.S.S. Monitor Steam Engine

| | | |
|----------------------|-----------------------------------|---------------------------------------|
| Material STEEL | Drawn By - Date RWC 10-2018 | Sub-Assembly Steam Pipe & Throttle |
| Weight (Lbs) 0.04 | Description Throttle Wheel Key | |
| Scale 4:1 | | |
| Part # ST 17 | | |



VIEW FROM PORT SIDE
SCALE 1:12

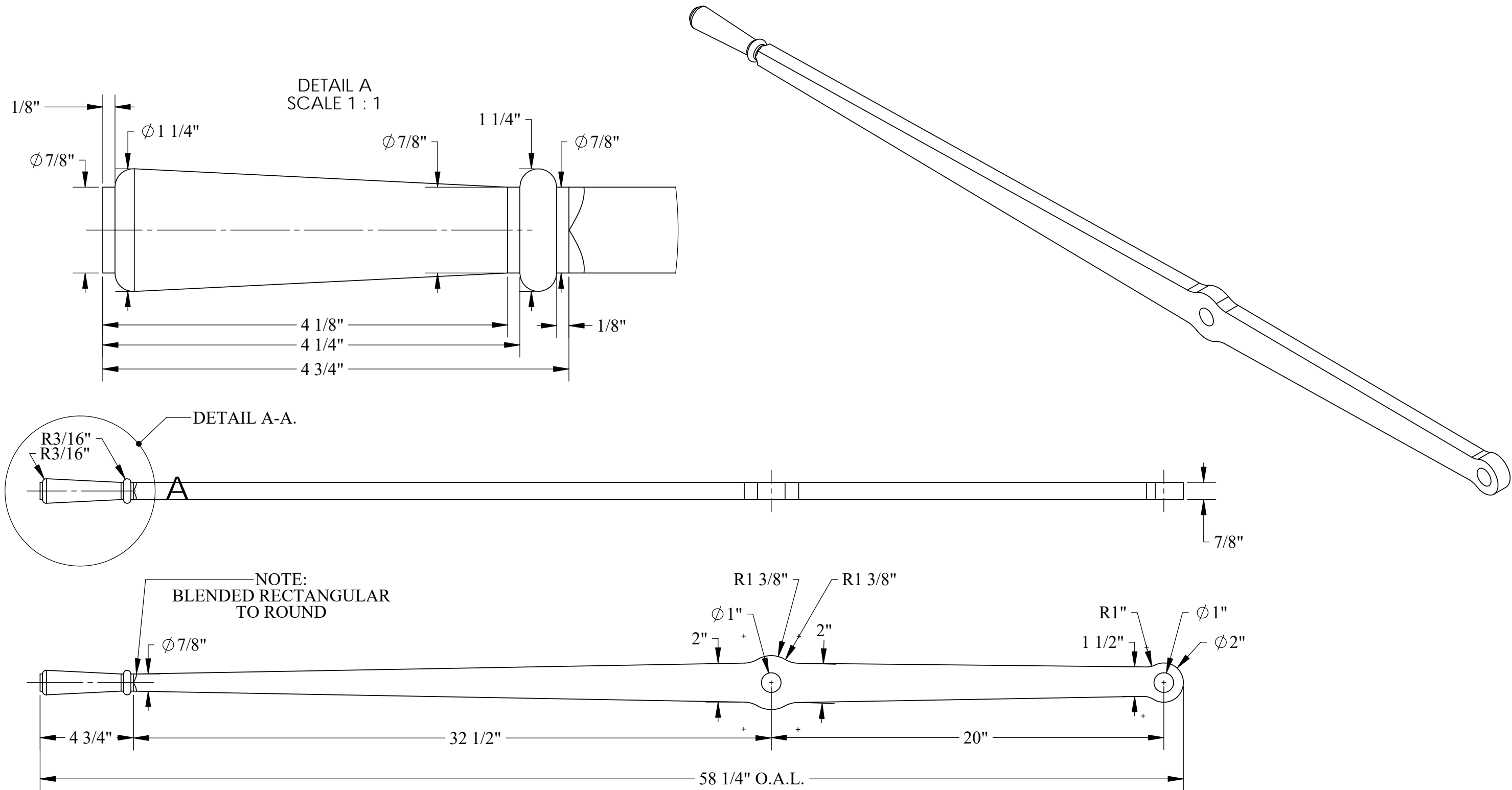


| PART NUMBER | DESCRIPTION | QTY. |
|-------------|--|------|
| ST 26 | Center Lever- Upper Bracket Center Lever- Upper Bracket | 1 |
| ST 19 | Injection Lever - Starboard | 1 |
| ST 20 | Starboard Injection Lever Bracket | 1 |
| ST 21 | Starboard Lever Pivot Pin | 1 |
| ST 22 | Starboard Lever Pivot Pin Collar | 1 |
| ST 23 | Center Lever Shaft | 1 |
| ST 24 | Injection Lever Center-Top | 1 |
| ST 25 | Injection Lever Center-Bottom | 1 |
| ST 27 | Shaft Washer- Slotted | 1 |
| ST 28 | Injection Lever Key | 2 |
| ST 29 | Shaft Tapered Key | 1 |
| P 6 | Pin 1/4" x 1-1/2" | 1 |
| B 24 | 3/4" Bolt X 4-3/4" | 3 |
| B 2 | 3/4" Bolt x 1-3/8" | 2 |

NOTE:
THESE COMPONENTS ARE MOUNTED
ON THE FRONT OF THE ENGINES
CUTOFF CHEST AND ARE USED TO
CONTROL THE CONDENSER .
FASTENERS ARE USED IN ON
THE CUTOFF CHEST ASSEMBLY

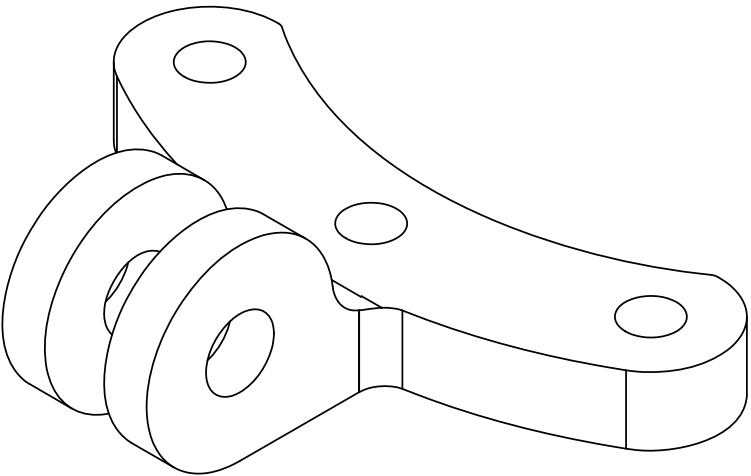
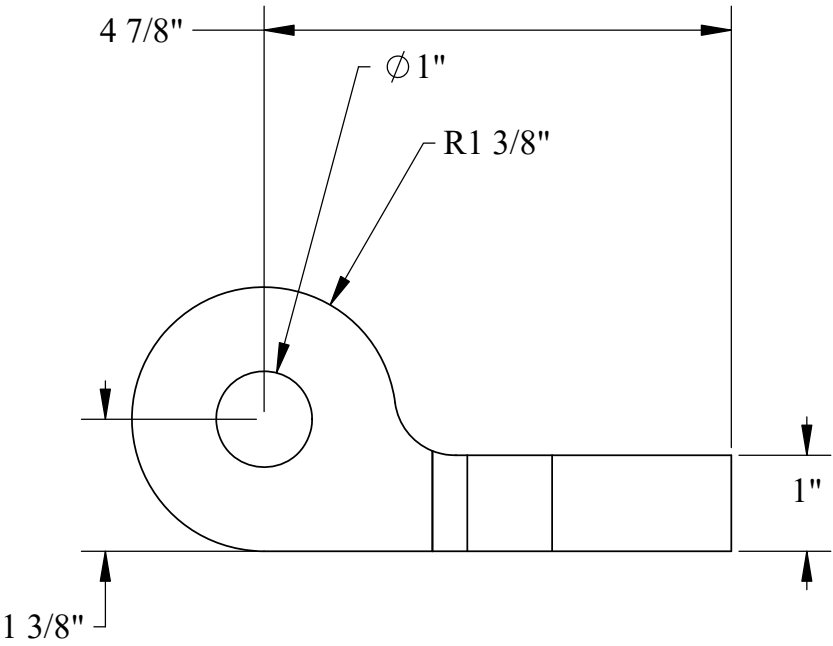
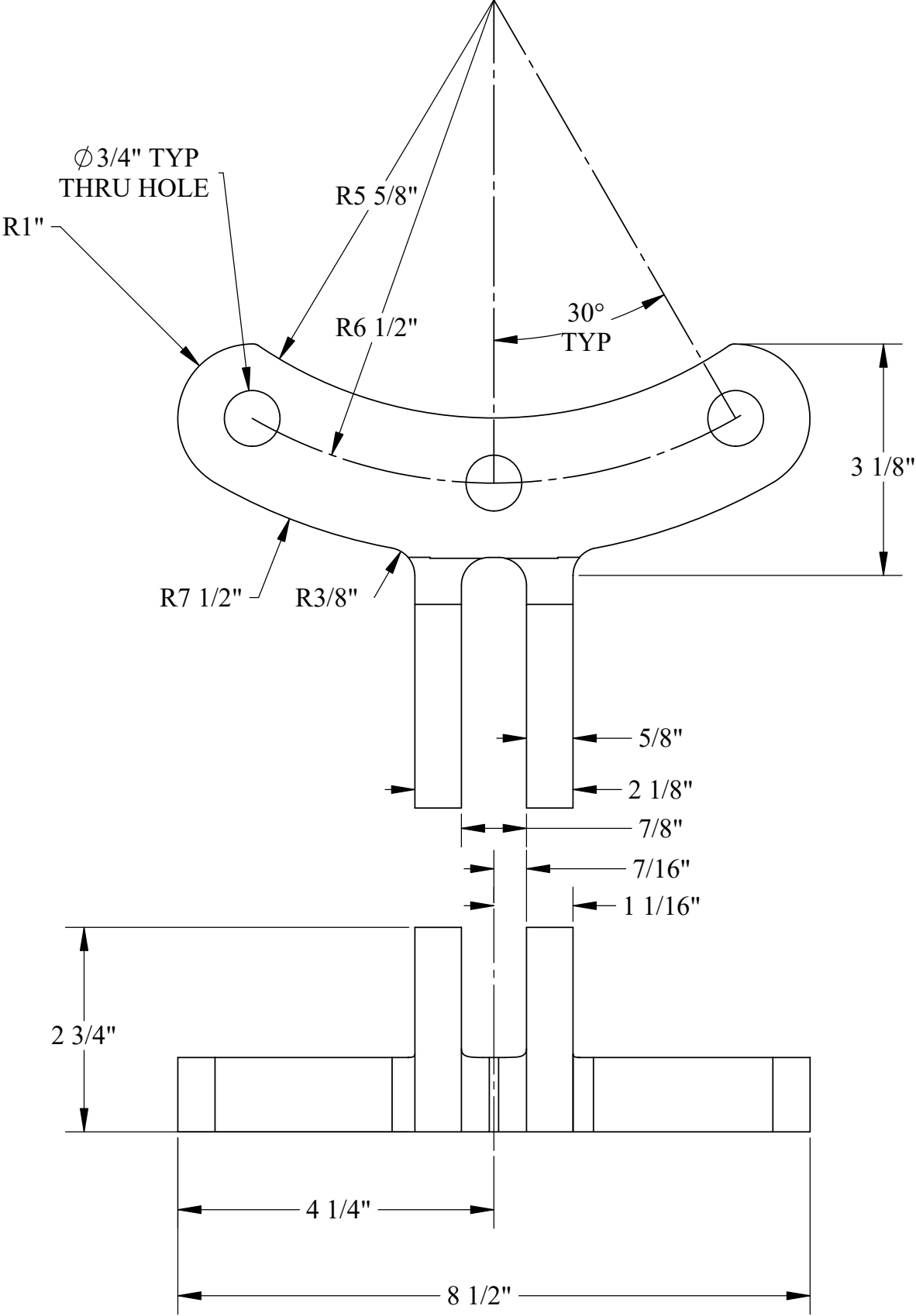
U.S.S. Monitor Steam Engine

| | | |
|------------------------|---|----------------|
| Material | Drawn By - Date | Sub-Assembly |
| Weight (Lbs) 88.33 | RWC 10-2018 | Injection Gear |
| Scale 1:8 | Description Injection Components Assembly | |
| Part # ST 18 | | |



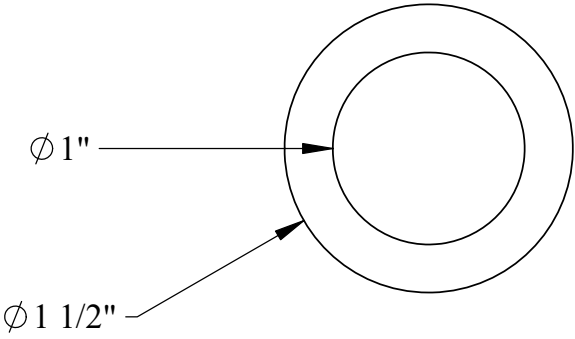
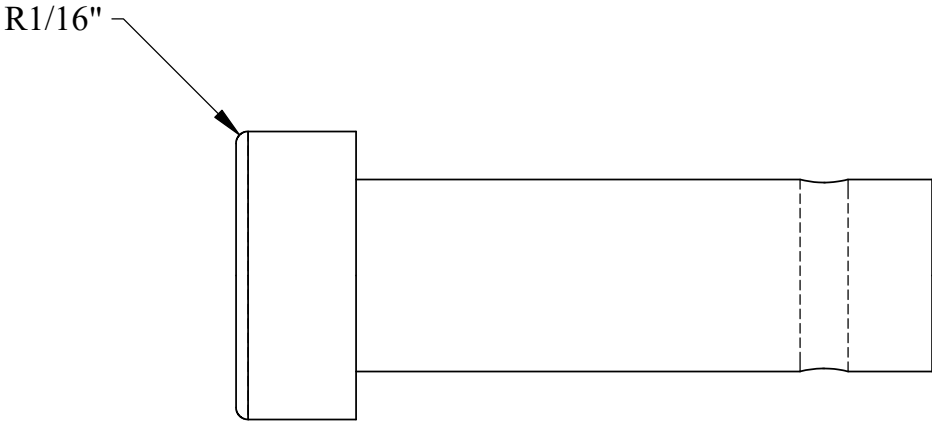
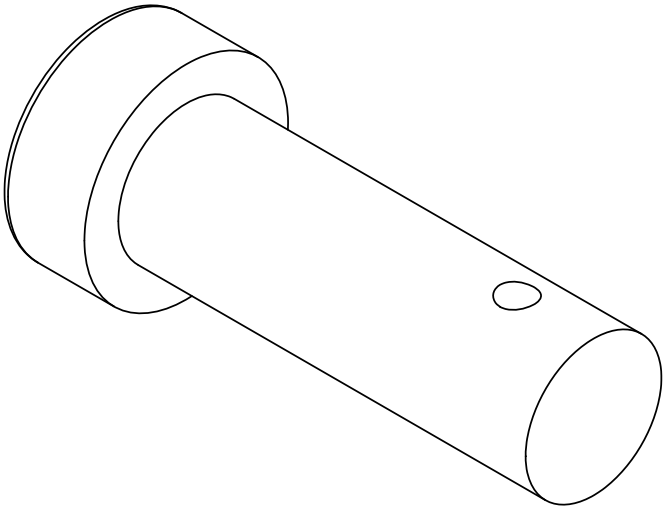
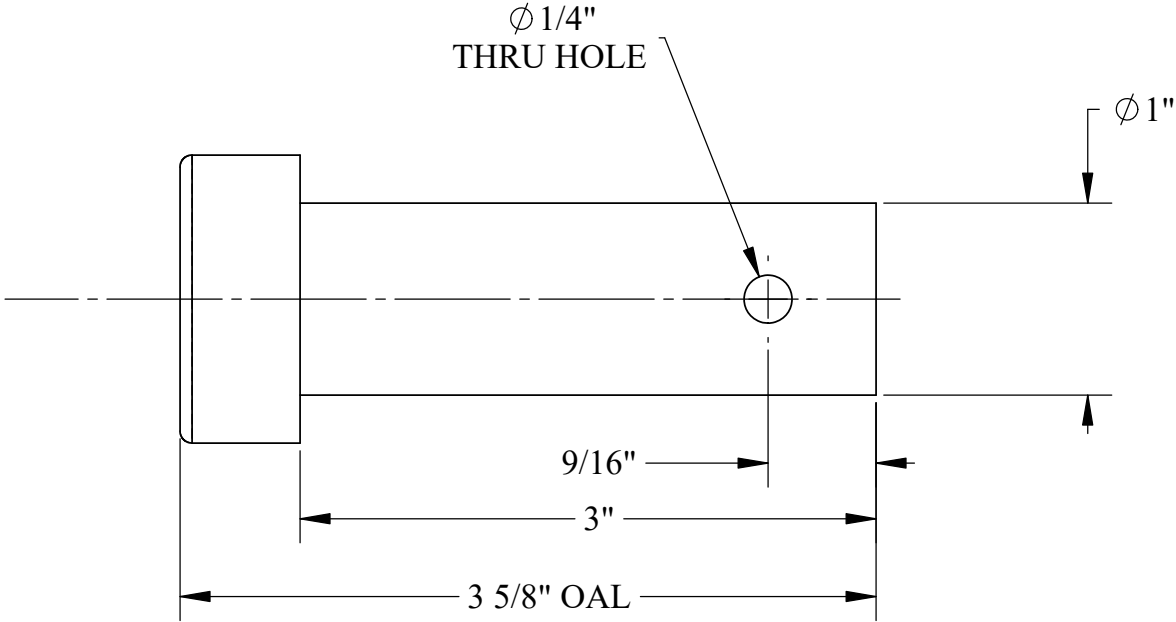
U.S.S. Monitor Steam Engine

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|-----------------------|--------------------------------|--------------------------------|
| Material STEEL | Drawn By - Date RWC 10-2018 | Sub-Assembly Injection Gear |
| Weight (Lbs) 22.09 | Injection Lever - Starboard | |
| Scale 1:8 | | |
| Part # ST 19 | | |



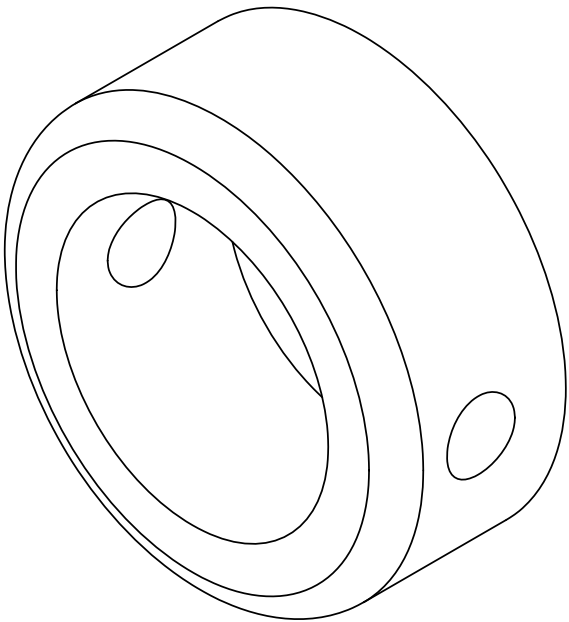
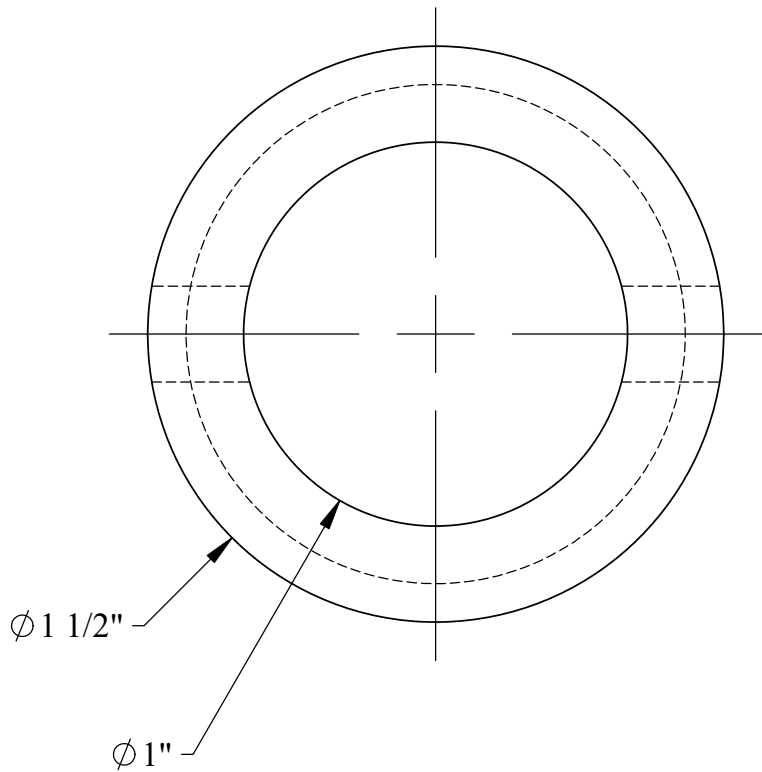
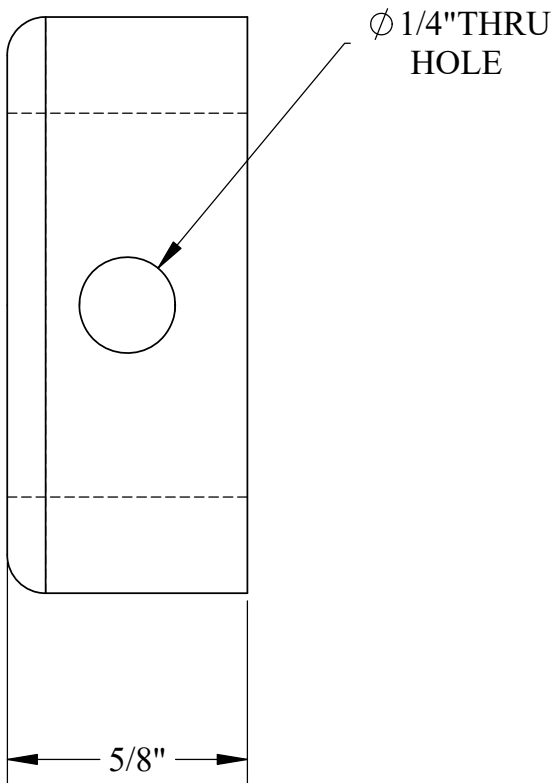
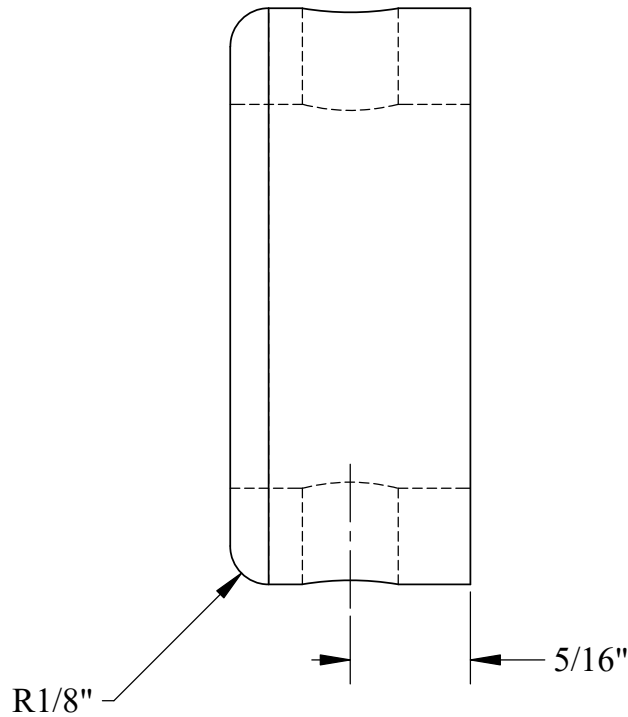
U.S.S. Monitor Steam Engine

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|-----------------------|--------------------------------------|--------------------------------|
| Material Cast Iron | Drawn By - Date RWC 10-2018 | Sub-Assembly Injection Gear |
| Weight (Lbs) 5.88 | Starboard Injection Lever Bracket | |
| Scale 1:2 | | |
| Part # ST 20 | | |



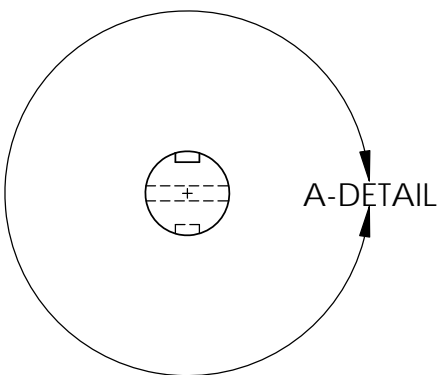
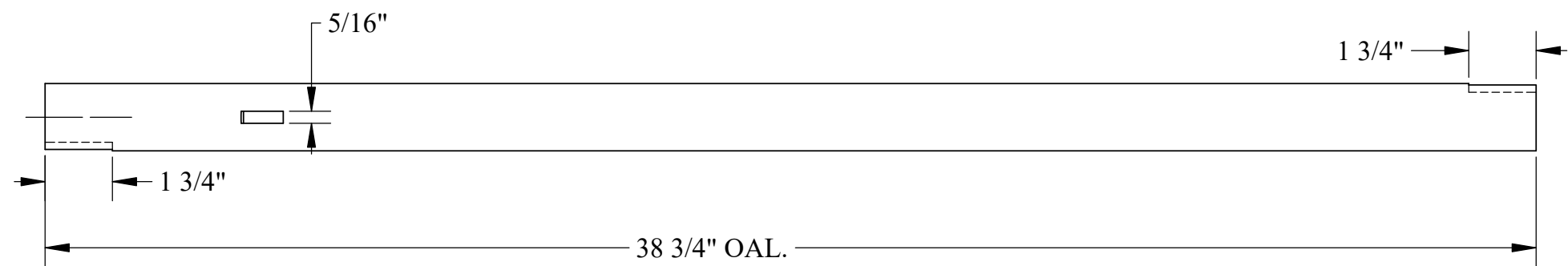
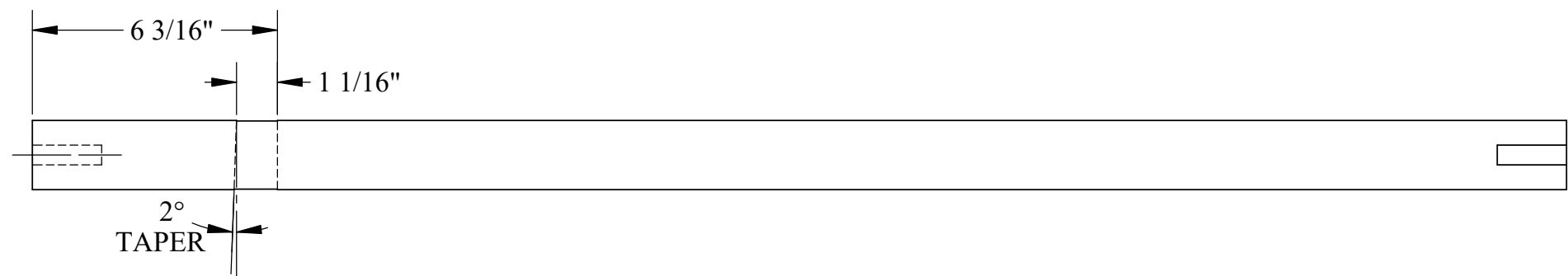
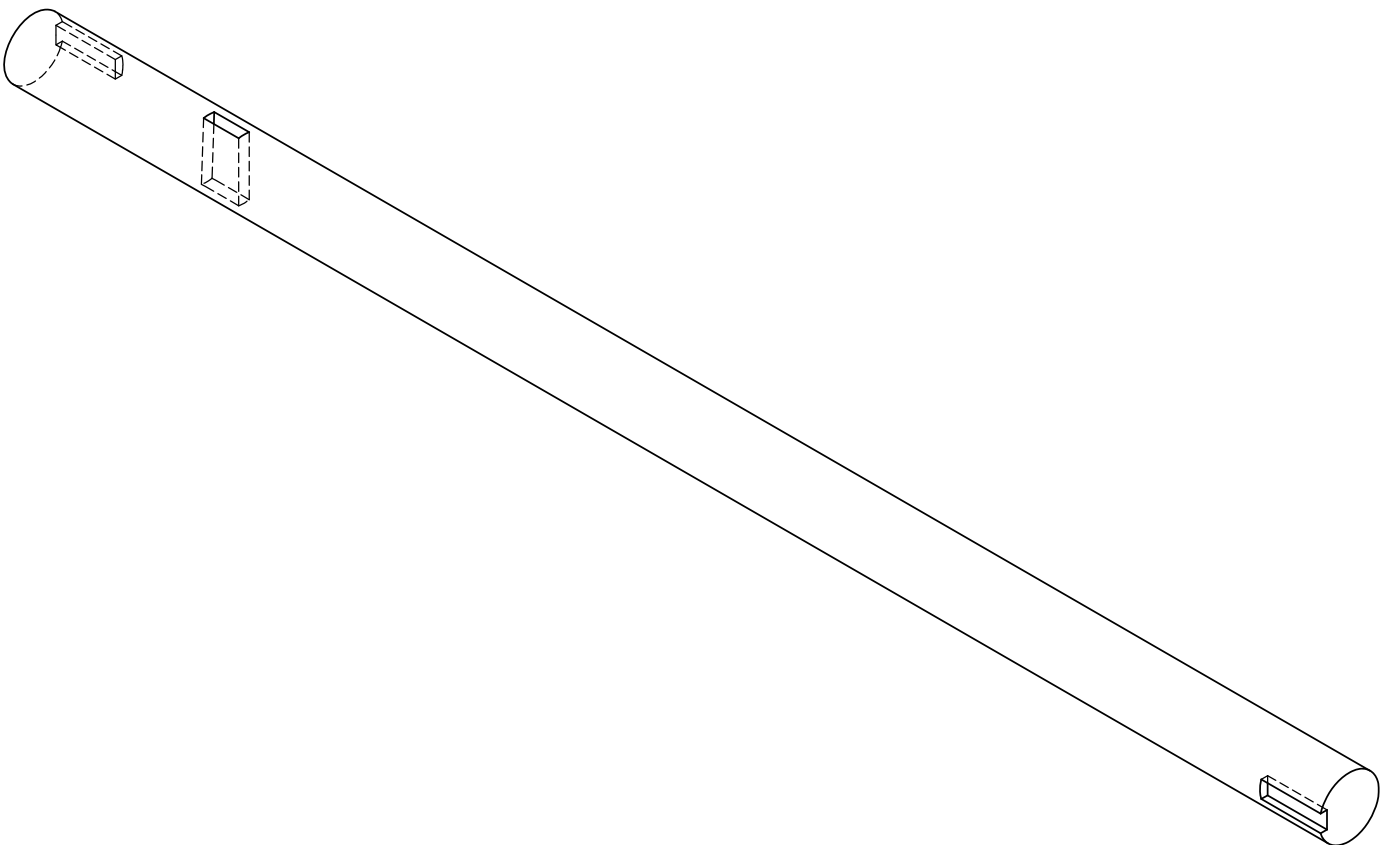
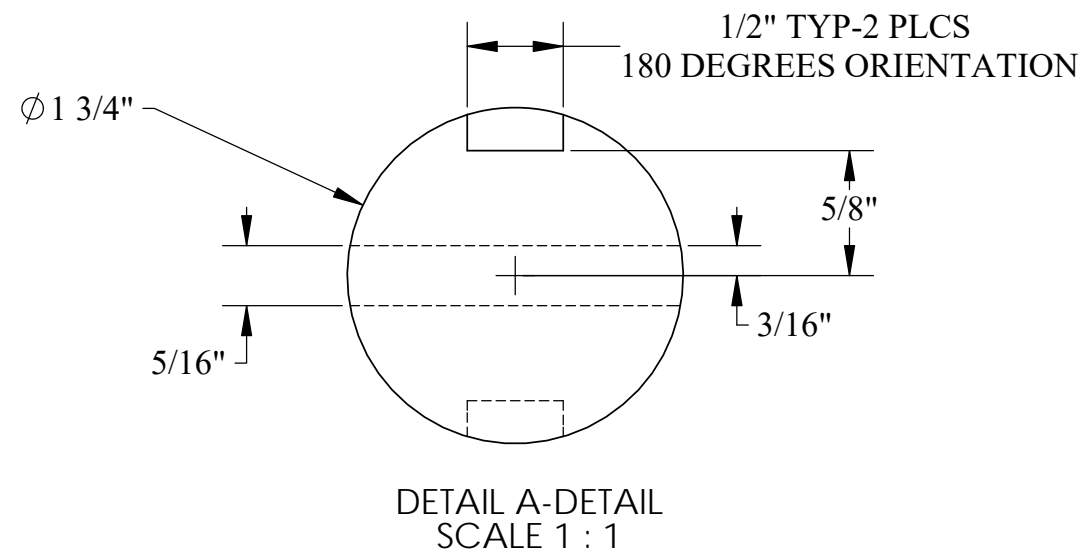
U.S.S. Monitor Steam Engine

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|----------------------|--------------------------------|--------------------------------|
| Material STEEL | Drawn By - Date RWC 10-2018 | Sub-Assembly Injection Gear |
| Weight (Lbs) 0.97 | Starboard Lever Pivot Pin | |
| Scale 1:1 | | |
| Part # ST 21 | | |



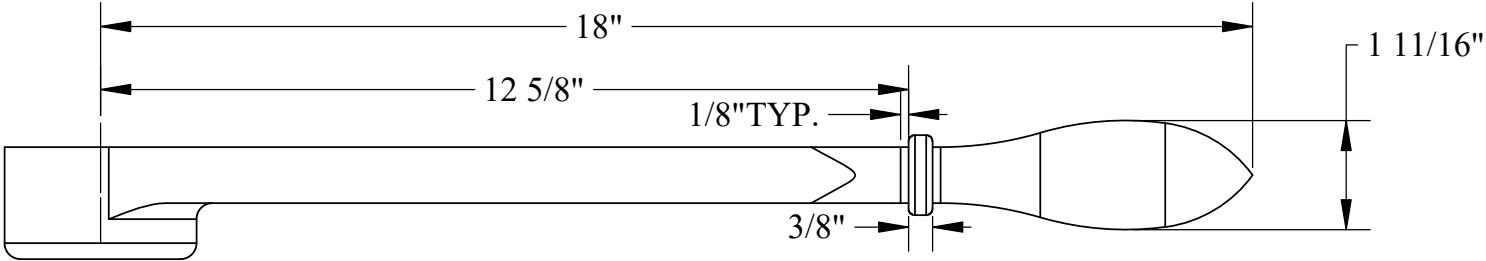
U.S.S. Monitor Steam Engine

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|----------------------|-------------------------------------|--------------------------------|
| Material STEEL | Drawn By - Date RWC 10-2018 | Sub-Assembly Injection Gear |
| Weight (Lbs) 0.17 | Starboard Lever Pivot Pin Collar | |
| Scale 2:1 | | |
| Part # ST 22 | | |

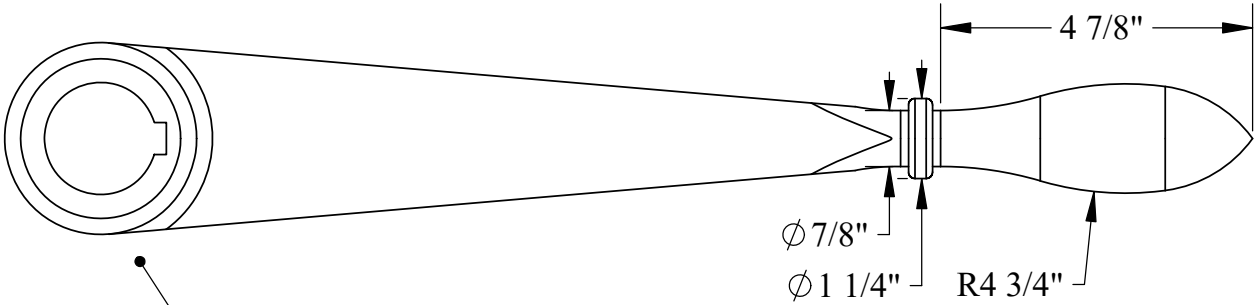


U.S.S. Monitor Steam Engine

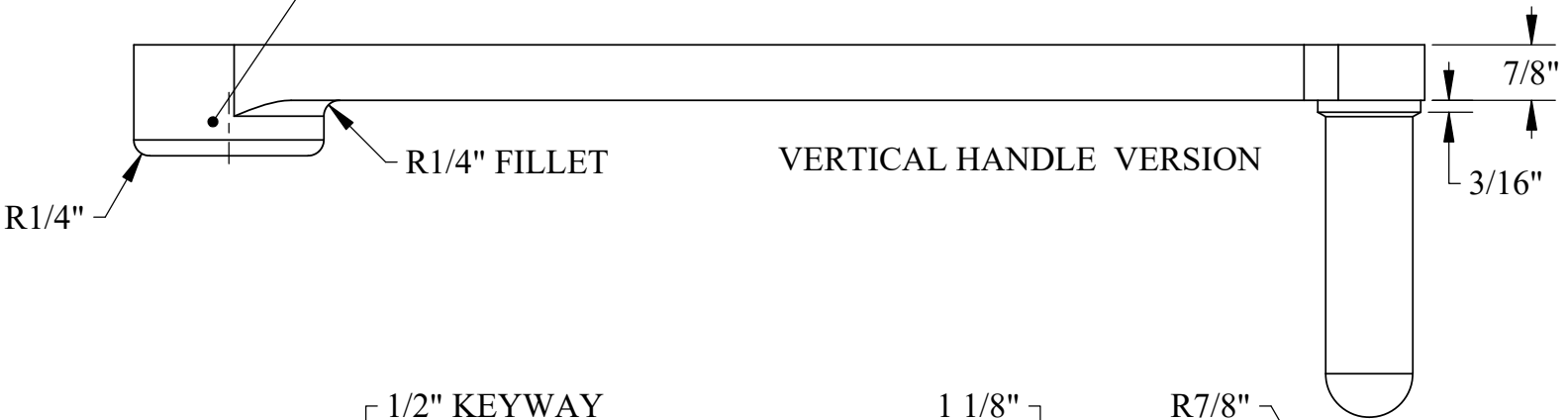
| | | |
|-----------------------|-----------------------------------|--------------------------------|
| Material STEEL | Drawn By - Date RWC 10-2018 | Sub-Assembly Injection Gear |
| Weight (Lbs) 26.33 | Description Center Lever Shaft | |
| Scale 1:4 | | |
| Part # ST 23 | | |



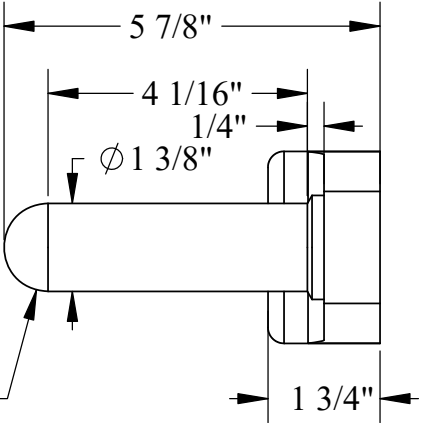
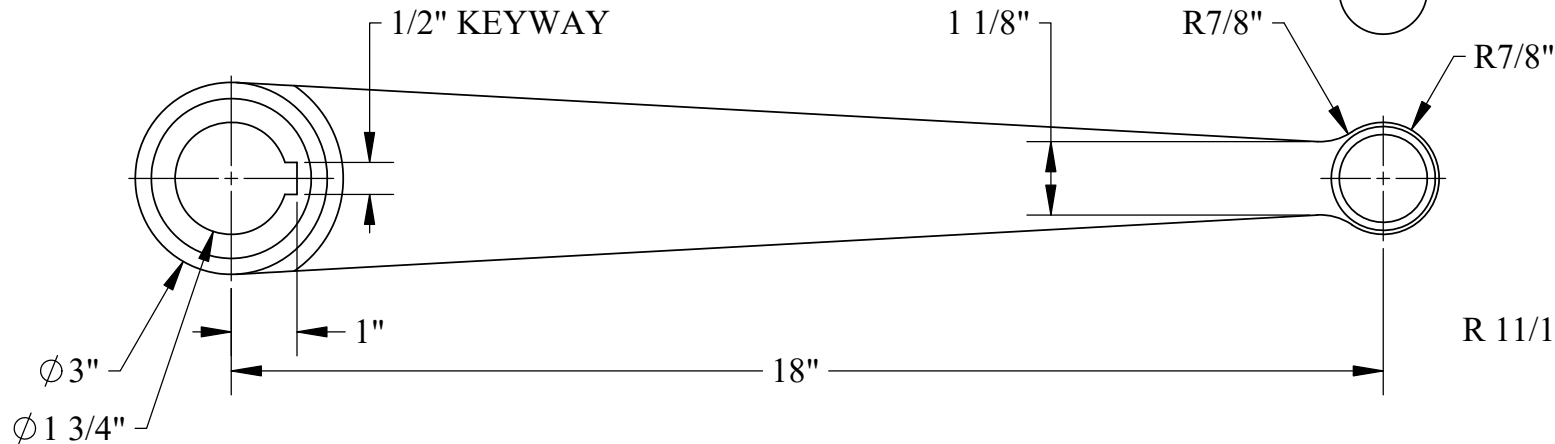
HORIZONTAL HANDLE VERSION



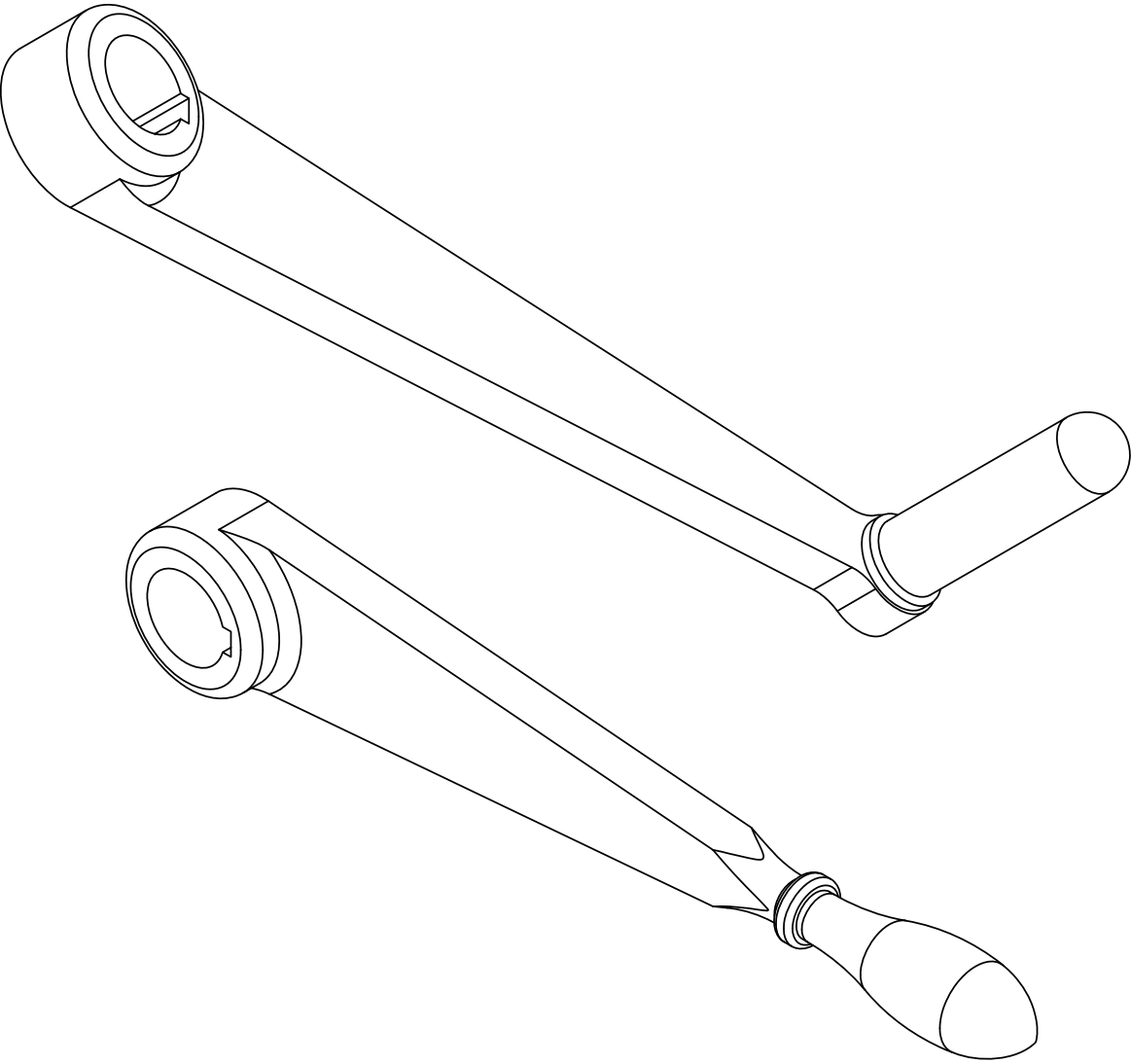
SAME HUB DIMENSIONS



VERTICAL HANDLE VERSION

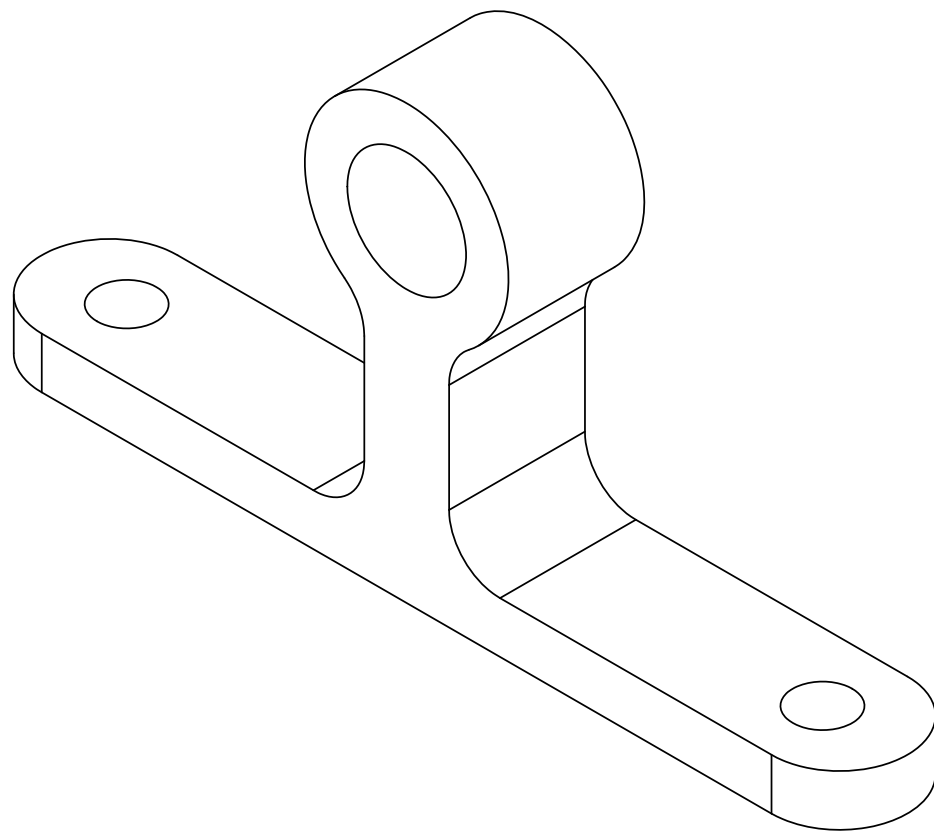
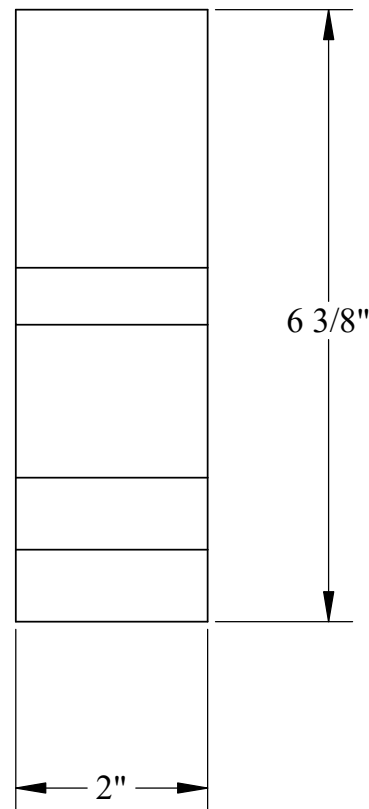
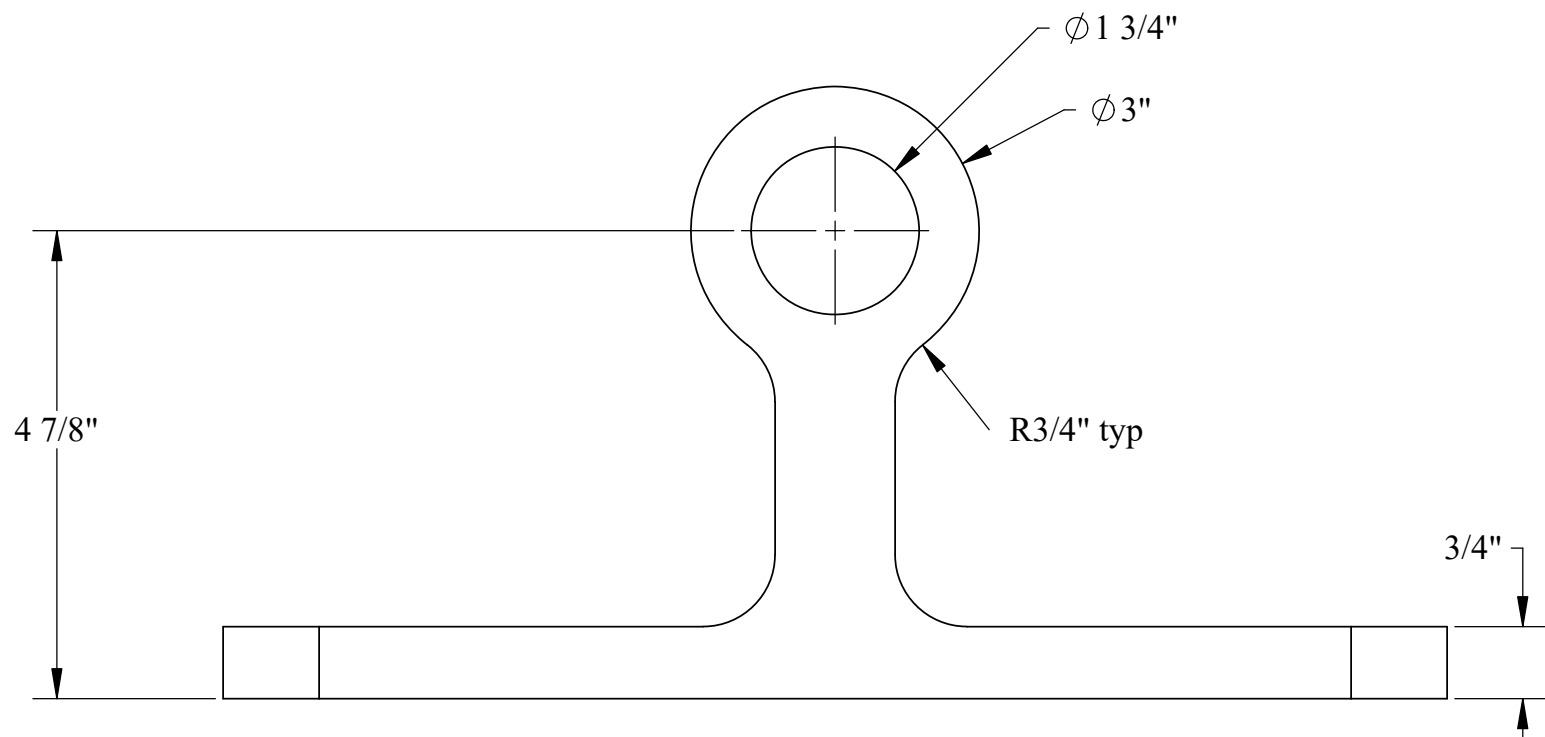
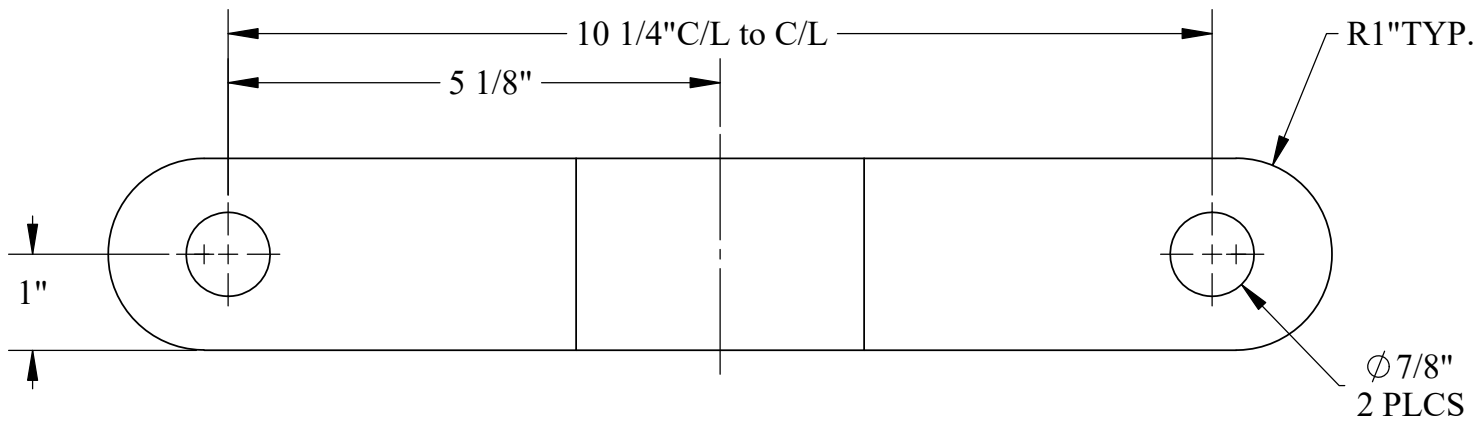


NOTE:
THERE ARE TWO VERSIONS OF THIS
LEVER AND BOTH ARE PRESENTED HERE-
IT IS UNKNOWN WHICH IS CORRECT-
THE VERTICAL VERSION COULD CREATE
ISSUES WITH THE THROTTLE WHEEL OR
THE CUTOFF CHEST DEPENDING ON LINKAGE
LENGTH OR LEVERAGE TO THE CONDENSER



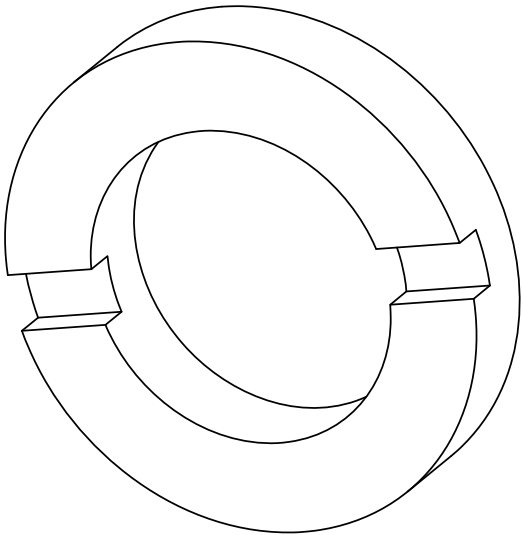
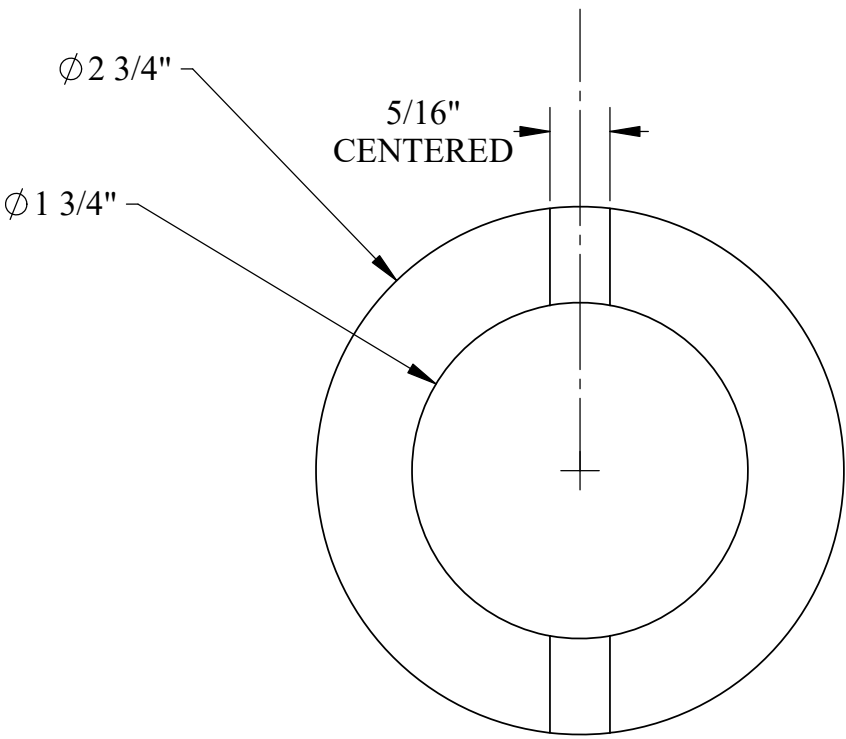
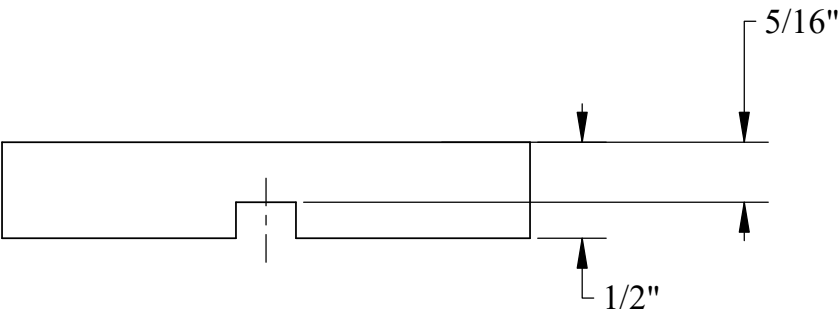
U.S.S. Monitor Steam Engine

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|-----------------------|--------------------------------|--------------------------------|
| Material Cast Iron | Drawn By - Date RWC 10-2018 | Sub-Assembly Injection Gear |
| Weight (Lbs) 11.77 | Description Injection Lever | |
| Scale 1:3 | | |
| Part # ST 25 | | |
| | | Center-Bottom |



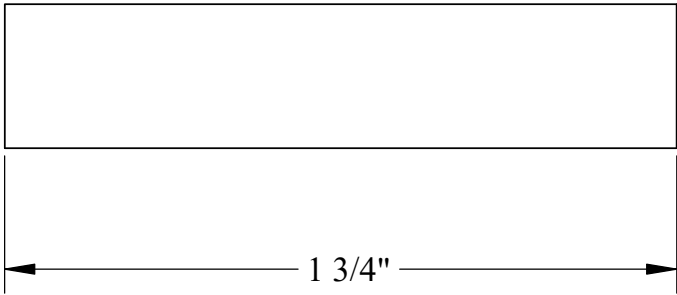
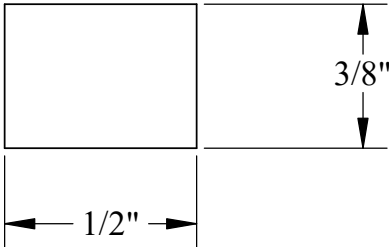
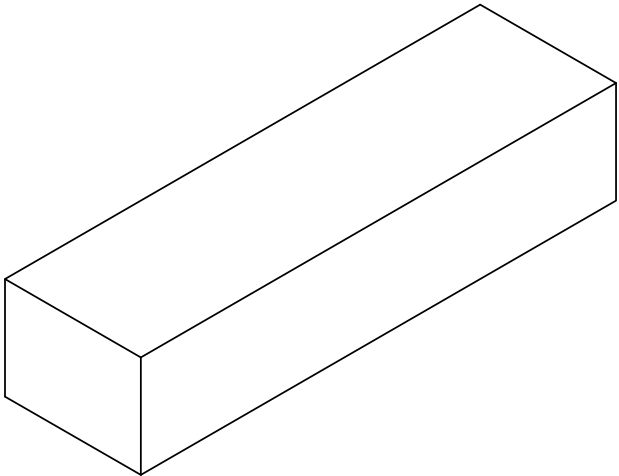
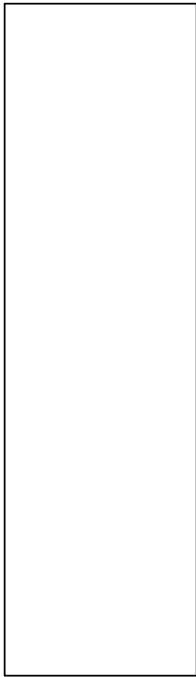
U.S.S. Monitor Steam Engine

| | | |
|-----------------------|--------------------------------|--------------------------------|
| Material Bronze | Drawn By - Date RWC 10-2018 | Sub-Assembly Injection Gear |
| Weight (Lbs) 10.24 | Center Lever- Upper Bracket | |
| Scale 1:2 | | |
| Part # ST 26 | | |



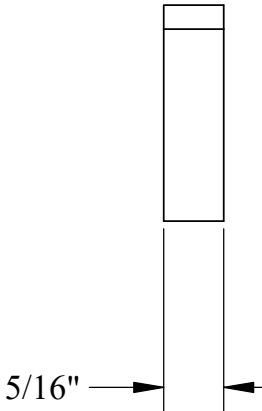
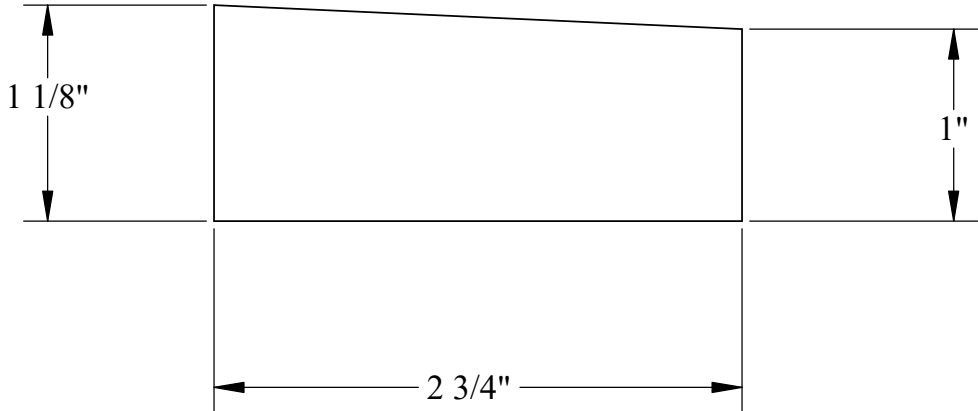
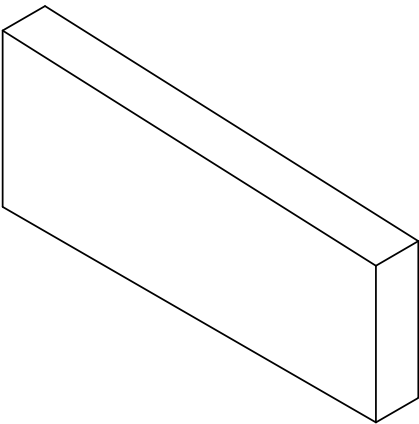
U.S.S. Monitor Steam Engine

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|----------------------|--------------------------------------|--------------------------------|
| Material STEEL | Drawn By - Date RWC 10-2018 | Sub-Assembly Injection Gear |
| Weight (Lbs) 0.49 | Description Shaft Washer- Slotted | |
| Scale 1:1 | | |
| Part # ST 27 | | |



U.S.S. Monitor Steam Engine

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|----------------------|--------------------------------|--------------------------------|
| Material STEEL | Drawn By - Date RWC 10-2018 | Sub-Assembly Injection Gear |
| Weight (Lbs) 0.09 | Injection Lever Key | |
| Scale 2:1 | | |
| Part # ST 28 | | |



U.S.S. Monitor Steam Engine

| | | |
|----------------------|----------------------------------|--------------------------------|
| Material STEEL | Drawn By - Date RWC 12-2018 | Sub-Assembly Injection Gear |
| Weight (Lbs) 0.26 | Description Shaft Tapered Key | |
| Scale 1:1 | | |
| Part # ST 29 | | |