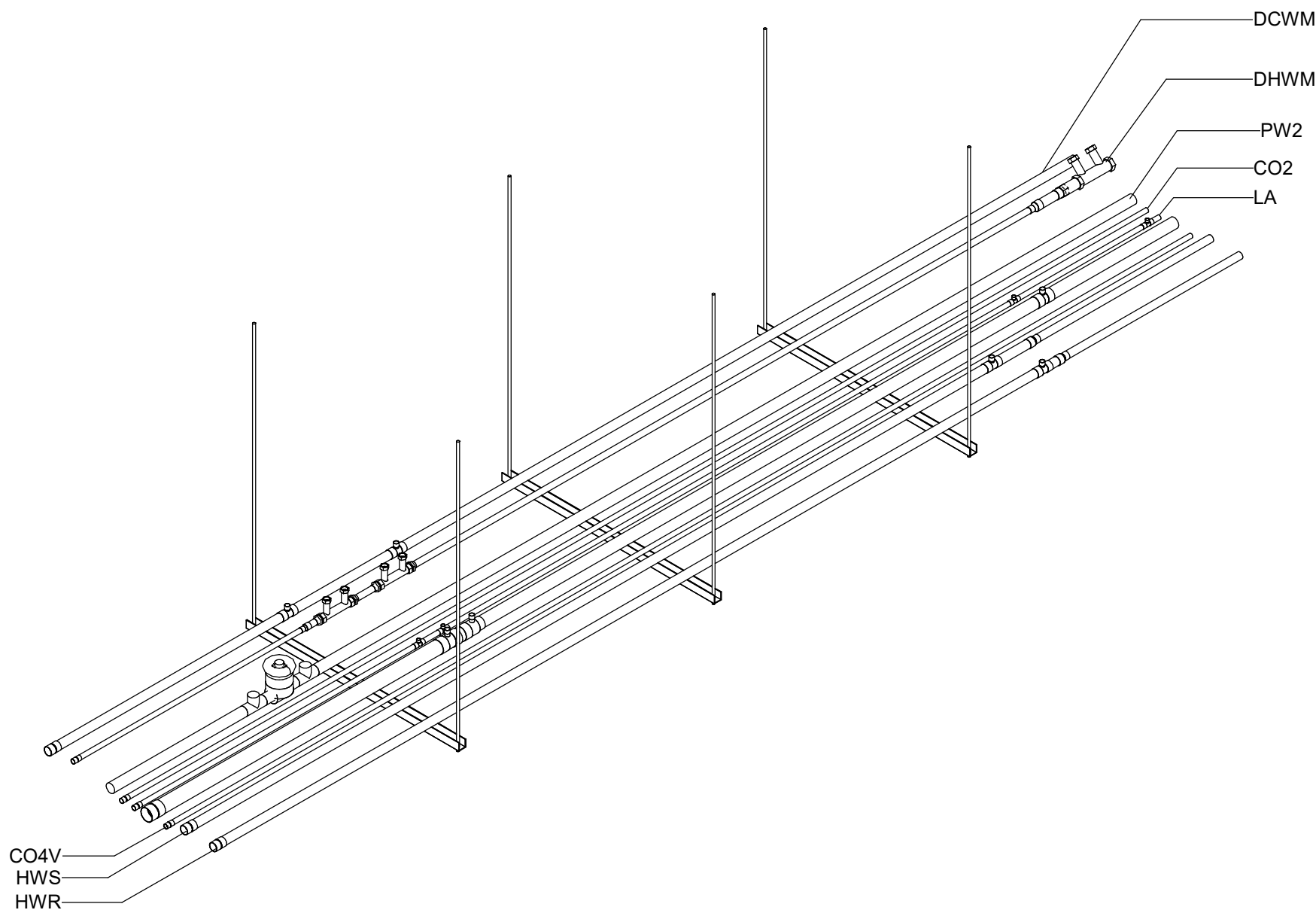
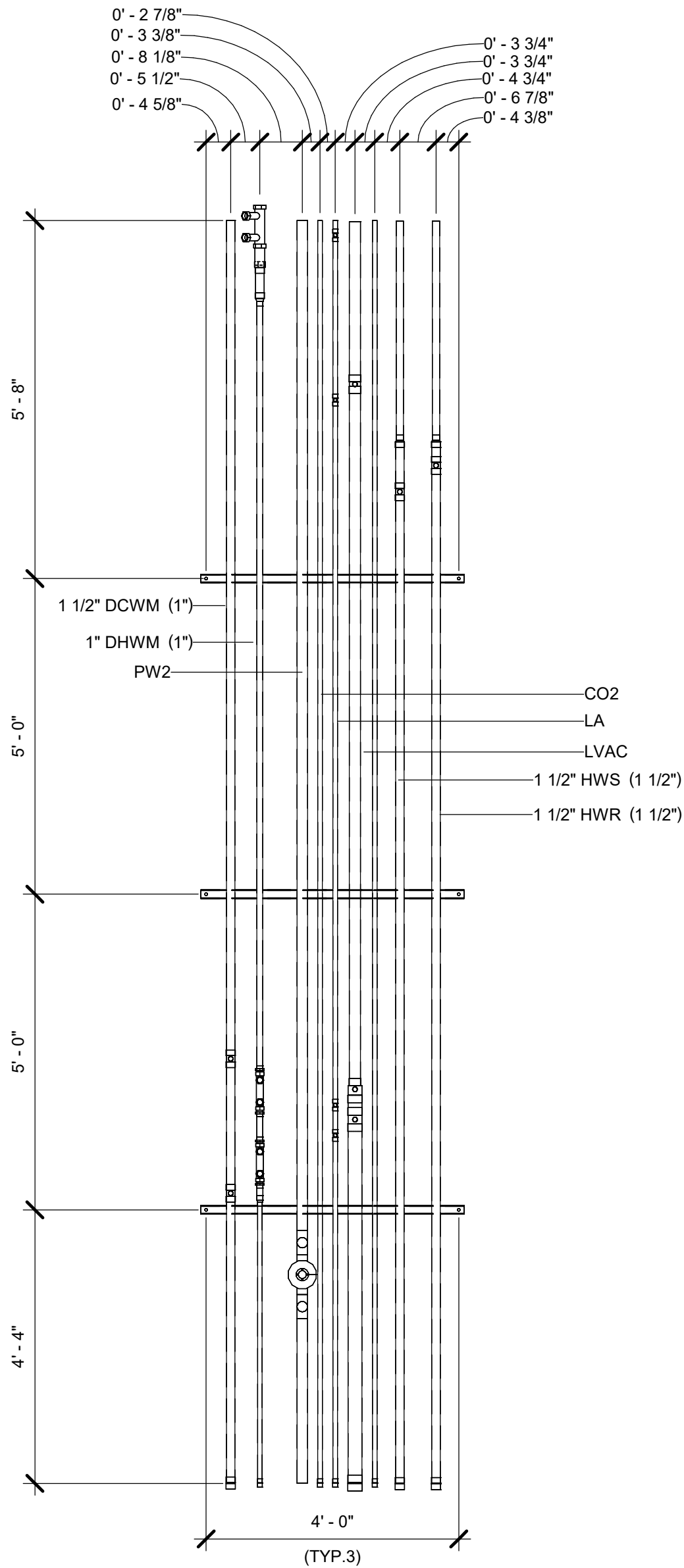


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8/13/2021 10:50:25 AM



2 AS-L03-072 - ISOMETRIC
AS-L03-072 SCALE:



1 AS-L03-072
AS-L03-072 SCALE: 1/2\"/>

| | | | |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

JOB: WASH U NRB

TICKET: AS-L03-072

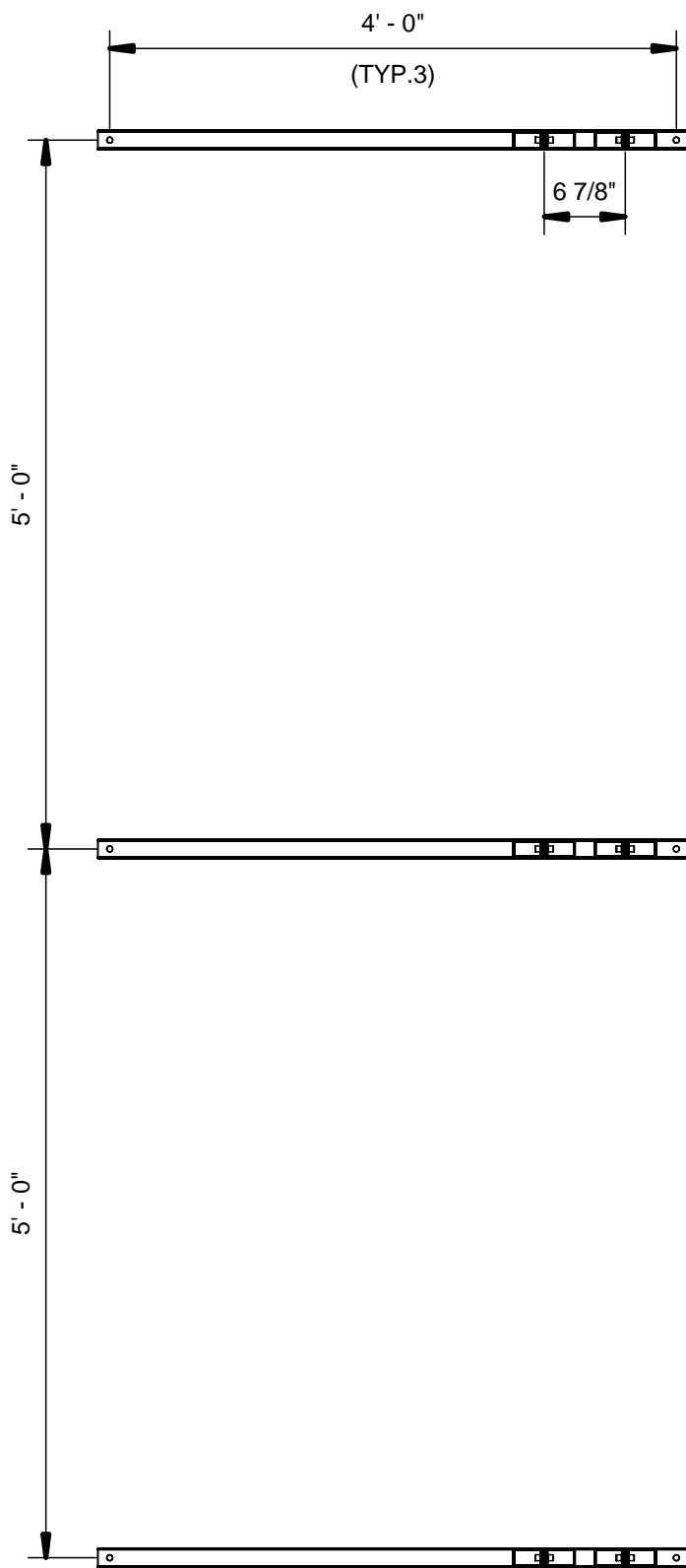
Drawn By: Author

DATE REQ: 08/09/21



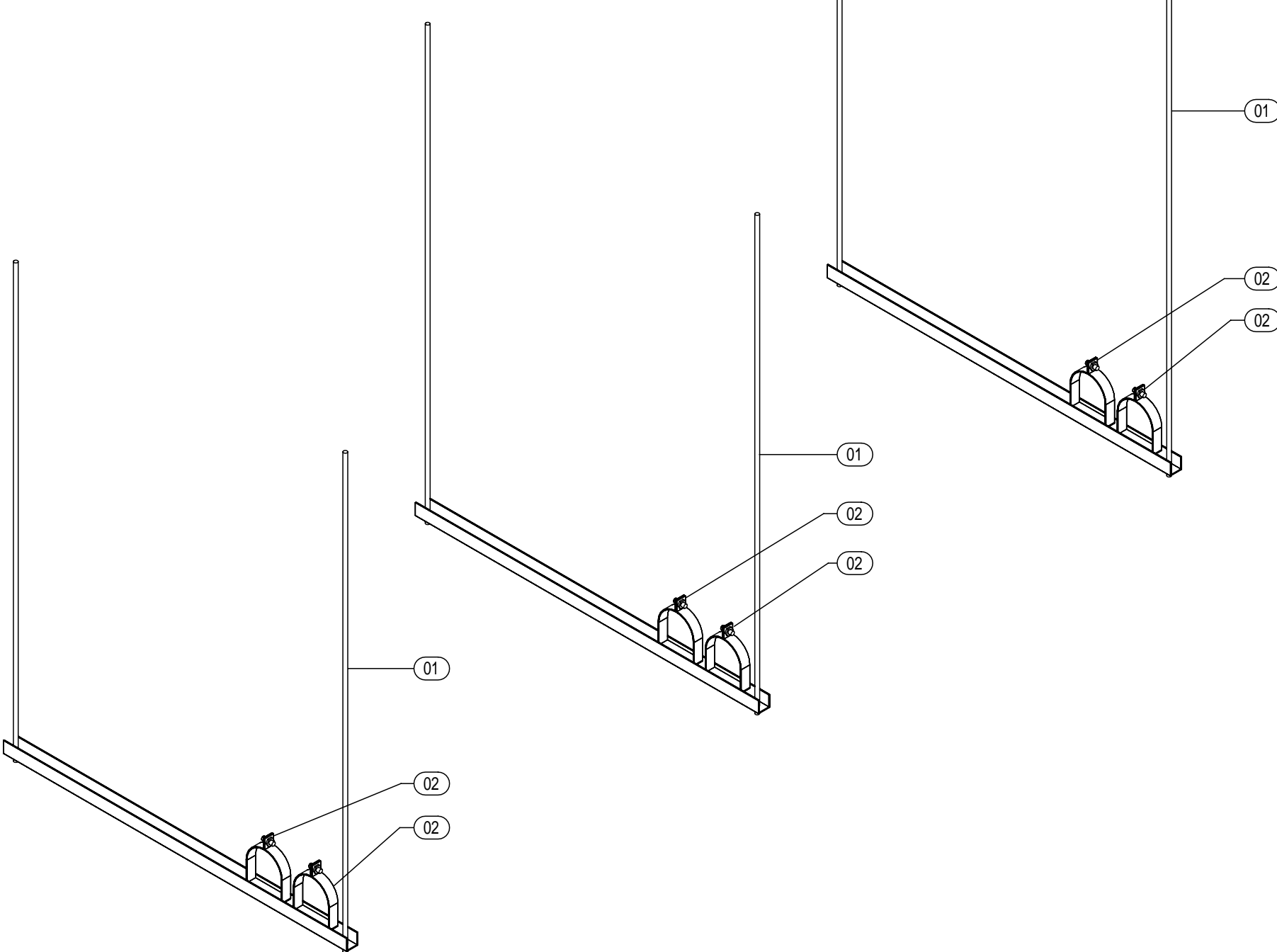
1233 N. Price Rd.
St. Louis, Mo 63132-2303
314-997-6600 phone

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11-08-2021 17:28:07



2 TOP VIEW
SCALE: 3/4" = 1'-0"

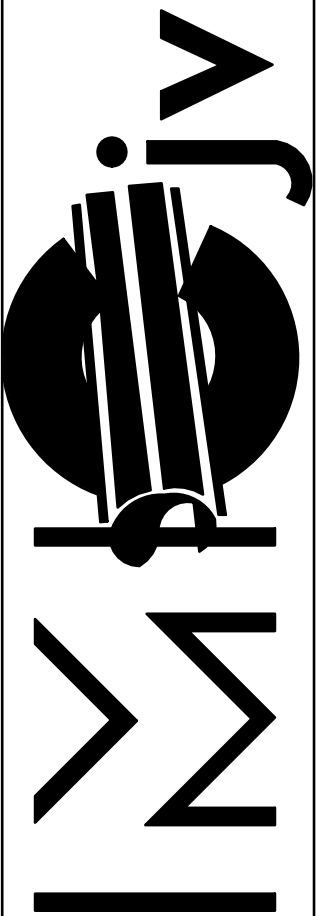
| | | | |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |



1 ISOMETRIC
SCALE:

| Mark | Qty | Size | Description | Length | Strut Width | Rod 1 | Rod 2 | Insulation |
|------|-----|--------|--|--------|-------------|-------|-------|------------|
| 01 | 3 | 46" | B-Line 1-5/8 GRN 12GA 2in Slotted Unistrut | | | | | |
| 02 | 6 | 1.5" | B-Line D2000 ZN Schl 40 Pipe Clamp | | | | | |
| 02 | 4 | 4 5/8" | B-LINE #2058 | | | | | |

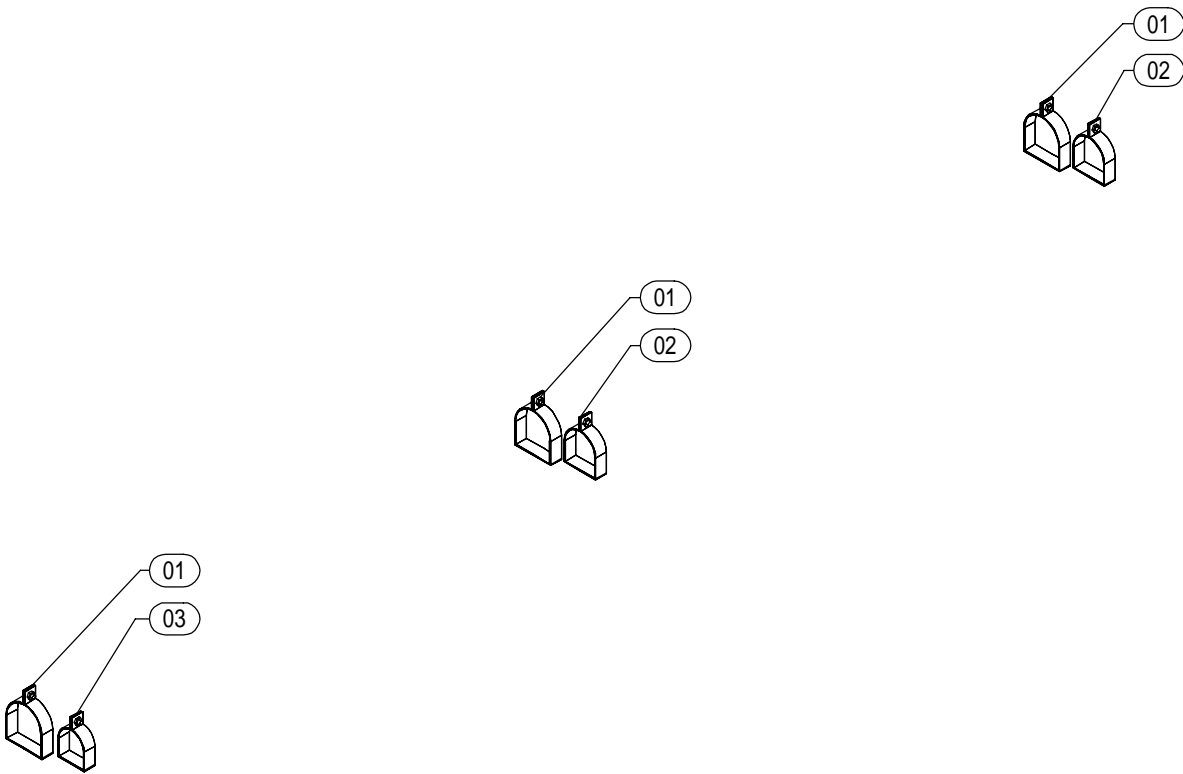
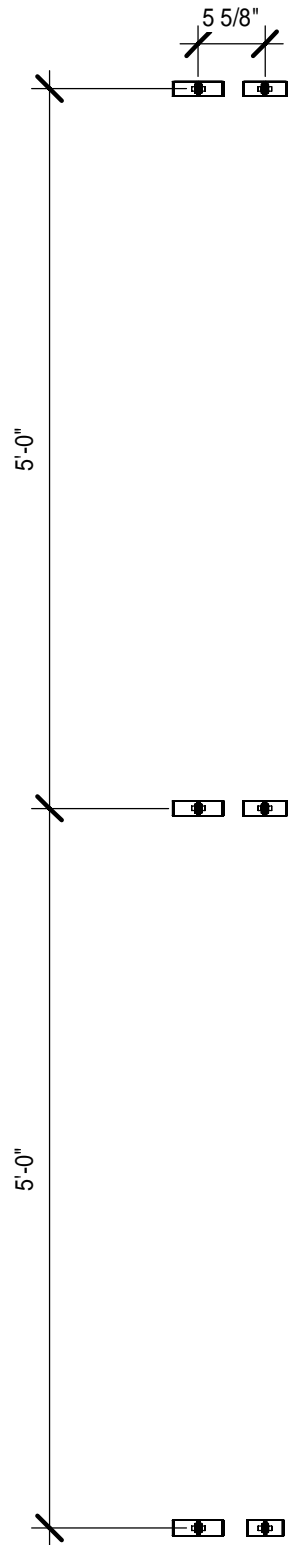
| | |
|------------------|---------------|
| JOB: | WASH U NRB |
| TICKET: | HPHGR-L03-072 |
| Drawn By: Author | |
| DATE: 08/11/21 | DATE REQ: |



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314-997-6600 phone

BIM 360://WUSM NRBWUSM_RB_PLF.rvt
20-08-2021 10:23:34

| Mark | Qty | Size | Description | Length | Strut Width | Rod 1 | Rod 2 | Insulation |
|---------------|--------------|-------------------|--|--------|-------------|-------|-------|------------|
| 01 | 3 | 3 5/8" | B-Line B2000 ZN Sch 40 Pipe Clamp | | | | | |
| 02 | 2 | 3" | B-Line B2000 ZN Sch 40 Pipe Clamp | | | | | |
| 03 | 1 | 2 5/8" | B-Line B2000 ZN Sch 40 Pipe Clamp | | | | | |
| 01 | 3 | 3 5/8" | B-LINE #2050 | | | | | |
| 02 | 2 | 3 1/8" | B-LINE #2046 | | | | | |
| 03 | 1 | 2 5/8" | B-LINE #2042 | | | | | |

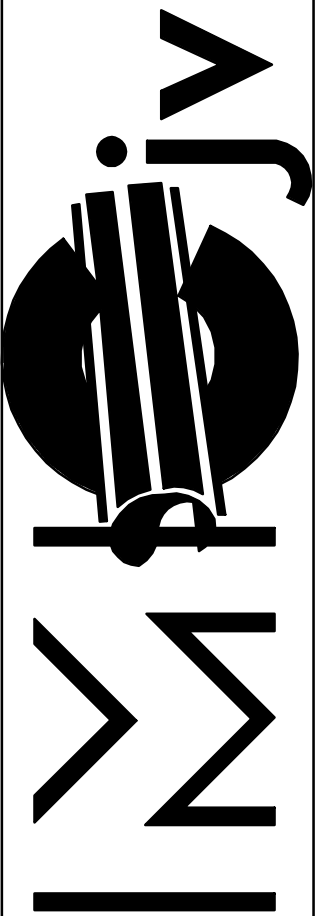


1 ISOMETRIC
SCALE:

2 TOP VIEW
SCALE: 3/4" = 1'-0"

| | | | |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

| | |
|------------------|---------------|
| JOB: | WASH U NRB |
| TICKET: | PPHGR-L03-072 |
| Drawn By: Author | |
| DATE: 08/20/21 | DATE REQ: |



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16-08-2021 17:50:54

| Mark | Qty | Size | Description | Length | Strut Width | Rod 1 | Rod 2 | Insulation |
|------|-----|-------|---|--------|-------------|-------|-------|------------|
| 01 | 3 | 3" | B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN | | | | | |
| 02 | 3 | 2" | B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN | | | | | |
| 03 | 9 | 0.75" | B-Line BVT Series Vibra-Clamp Strut-Mnt Tube - ZN | | | | | |



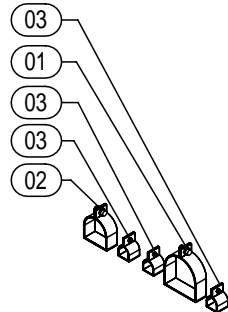
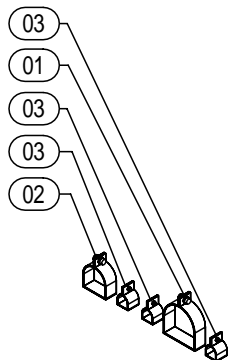
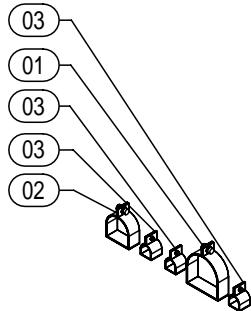
5' - 0"



5' - 0"



3 3/4"
2 7/8"
3 3/8"

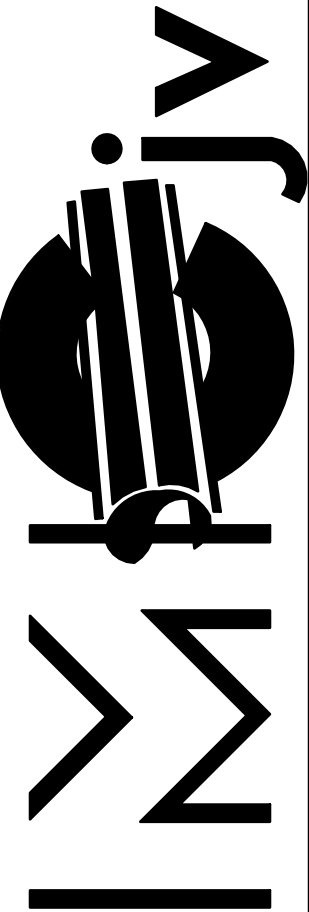


1 ISOMETRIC
SCALE:

2 TOP VIEW
SCALE: 3/4" = 1'-0"

| | | | |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

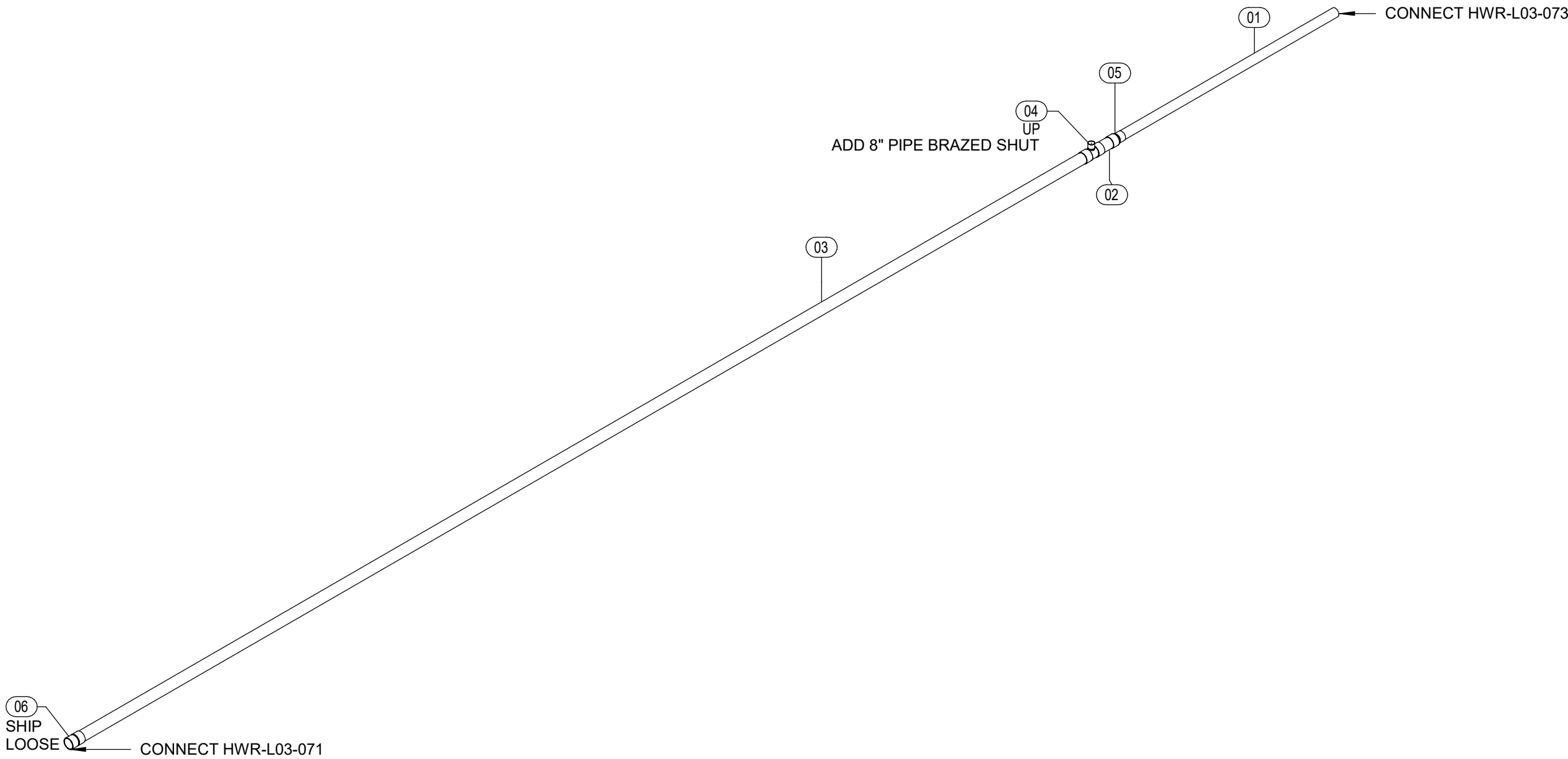
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|------------------|---------------|
| JOB: | WASH U NRB |
| TICKET: | PUHGR-L03-072 |
| Drawn By: Author | |
| DATE: 08/17/21 | DATE REQ: |



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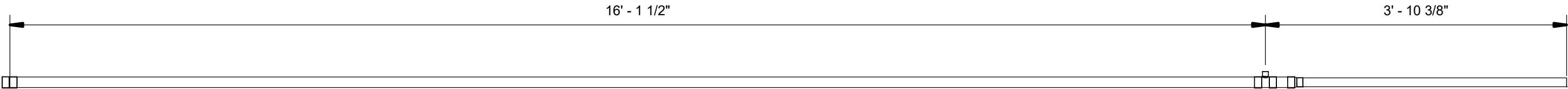
BIM 360://WUSM NRBWUSM_RB_HPF.rvt
1/20/2022 3:57:24 PM

| Mark | Qty | Size | Description | Length | Strut Width | Rod 1 | Rod 2 | Insulation |
|------|-----|---------------|--|------------|-------------|-------|-------|------------|
| 01 | 1 | 1 1/4" | Cerro Type K Hard Copper Pipe | 3'-5 5/8" | | | | 1" |
| 02 | 1 | 1 1/2" | Cerro Type K Hard Copper Pipe | 0'-3 7/8" | | | | 1 1/2" |
| 03 | 1 | 1 1/2" | Cerro Type K Hard Copper Pipe | 16'-0 7/8" | | | | 1 1/2" |
| 04 | 1 | 1 1/2"x3/4" | Nibco Wrot 611R CxCxC Reducing Tee | | | | | 1 1/2" |
| 05 | 1 | 1 1/2"x1 1/4" | Nibco Wrot 600R Red Cplg CxC | | | | | 1 1/2" |
| 06 | 1 | 1 1/2" | Nibco Wrot 600 Dimpled Stop Coupling CxC | | | | | 1 1/2" |



1 ISOMETRIC

SCALE:



2 RIGHT ELEVATION

SCALE: 3/4\"/>

| | | | |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

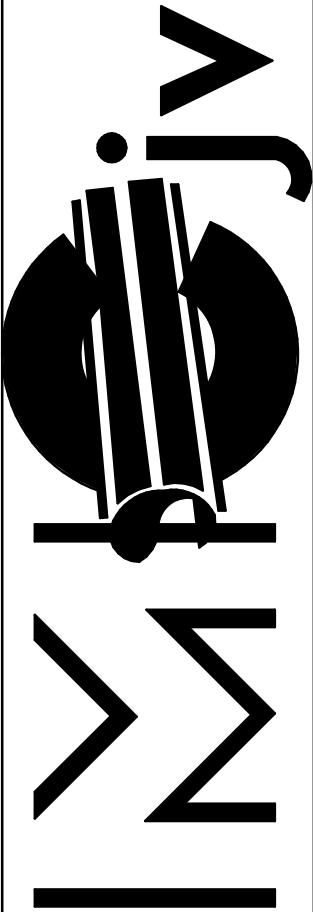
JOB: 210140 - WASH U NRB

TICKET: HWR-L03-072

Drawn By: Author

DATE: 08/05/21

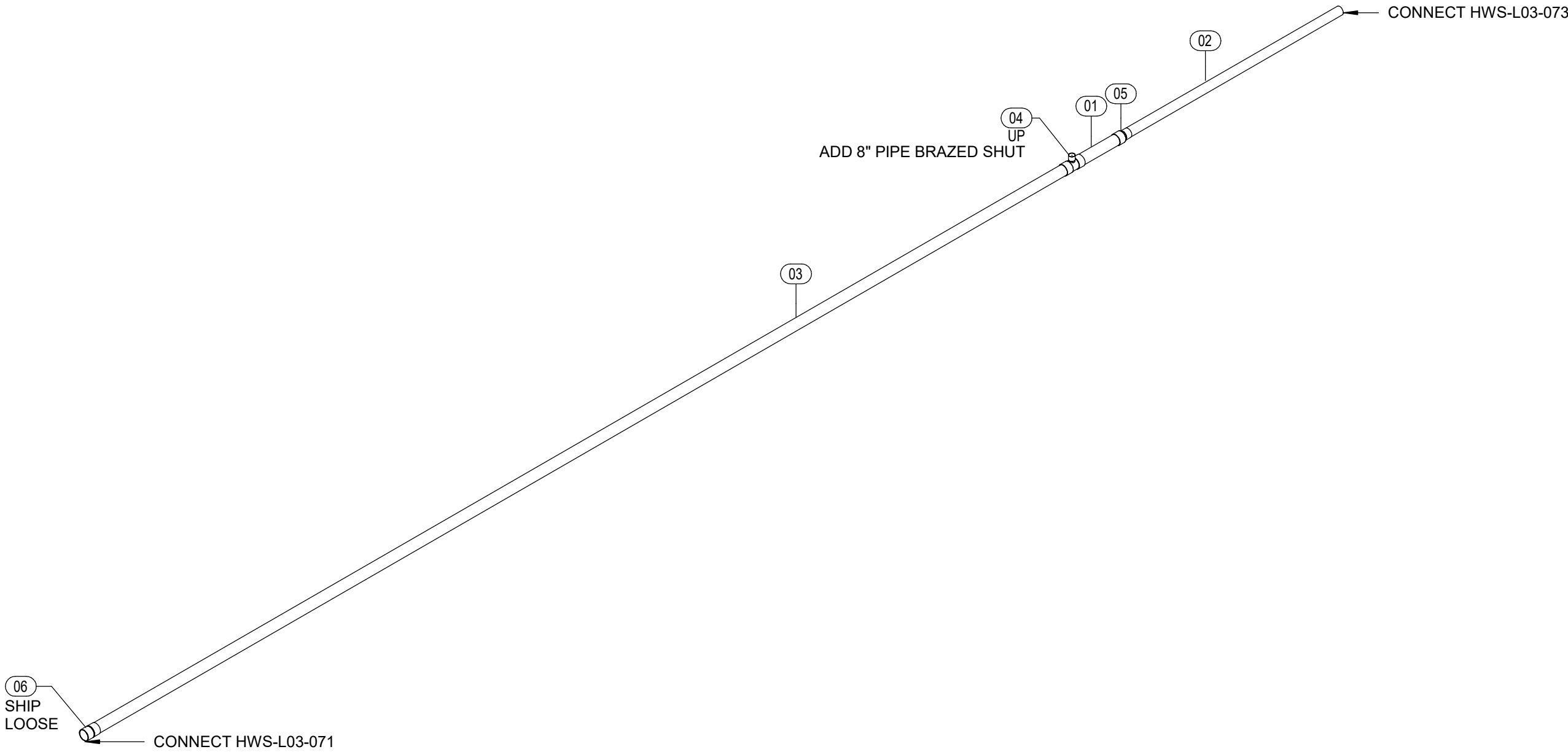
DATE REQ:



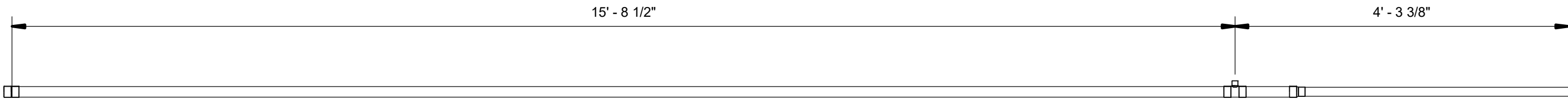
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St. Louis, Mo 63132-2303
314-997-6600 phone

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1/20/2022 3:57:29 PM

| Mark | Qty | Size | Description | Length | Strut Width | Rod 1 | Rod 2 | Insulation |
|------|-----|---------------|--|------------|-------------|-------|-------|------------|
| 01 | 1 | 1 1/2" | Cerro Type K Hard Copper Pipe | 0'-8 7/8" | | | | 1 1/2" |
| 02 | 1 | 1 1/4" | Cerro Type K Hard Copper Pipe | 3'-5 5/8" | | | | 1" |
| 03 | 1 | 1 1/2" | Cerro Type K Hard Copper Pipe | 15'-7 7/8" | | | | 1 1/2" |
| 04 | 1 | 1 1/2"x3/4" | Nibco Wrot 611R CxCxC Reducing Tee | | | | | 1 1/2" |
| 05 | 1 | 1 1/2"x1 1/4" | Nibco Wrot 600R Red Cplg CxC | | | | | 1 1/2" |
| 06 | 1 | 1 1/2" | Nibco Wrot 600 Dimpled Stop Coupling CxC | | | | | 1 1/2" |



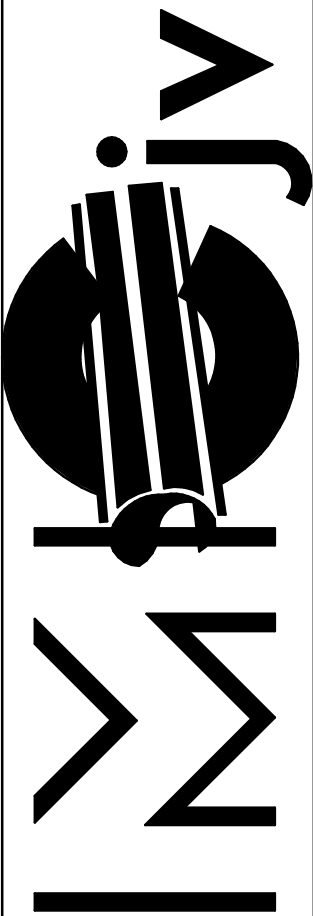
1 ISOMETRIC
SCALE:



2 RIGHT ELEVATION
SCALE: 3/4\"/>

| | | | |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

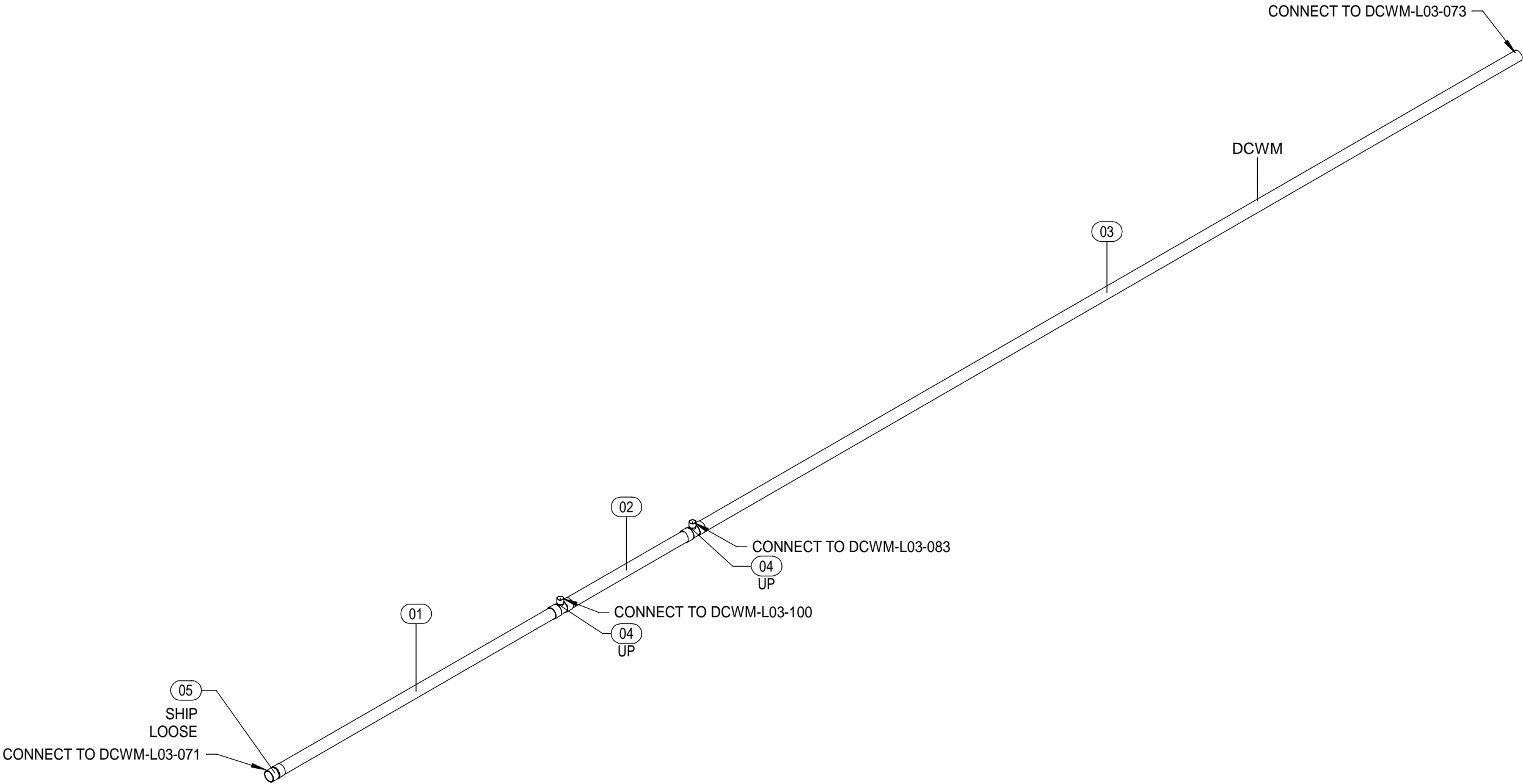
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|------------------|---------------------|
| JOB: | 210140 - WASH U NRB |
| TICKET: | HWS-L03-072 |
| Drawn By: Author | |
| DATE: 08/05/21 | DATE REQ: |



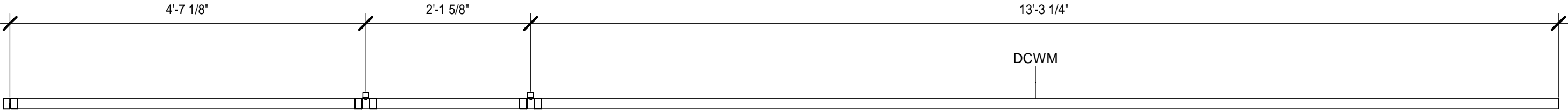
1233 N. Price Rd.
St. Louis, Mo 63132-2303
314-997-6600 phone

BIM 360://WUSM NRBWUSM_RB_PLF.rvt
20-08-2021 11:36:34

| Mark | Qty | Size | Description | Length | Strut Width | Rod 1 | Rod 2 | Insulation |
|------|-----|-------------|--|--------------|-------------|-------|-------|------------|
| 01 | 1 | 1 1/2" | Cerro Type L Hard Copper Pipe | 4'-6 7/16" | | | | 1" |
| 02 | 1 | 1 1/2" | Cerro Type L Hard Copper Pipe | 2'-0 3/8" | | | | 1" |
| 03 | 1 | 1 1/2" | Cerro Type L Hard Copper Pipe | 13'-2 11/16" | | | | 1" |
| 04 | 2 | 1 1/2"x3/4" | Nibco Wrot 611R CxCxC Reducing Tee | | | | | 1" |
| 05 | 1 | 1 1/2" | Nibco Wrot 600 Dimpled Stop Coupling CxC | | | | | 1" |



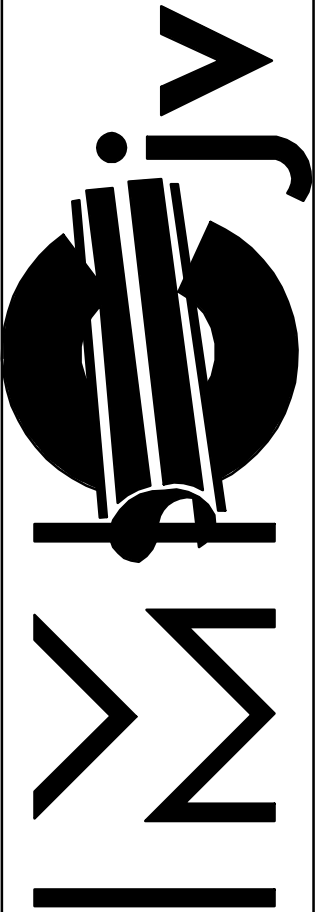
1 ISOMETRIC
SCALE:



2 RIGHT ELEVATION
SCALE: 3/4" = 1'-0"

| | | | |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

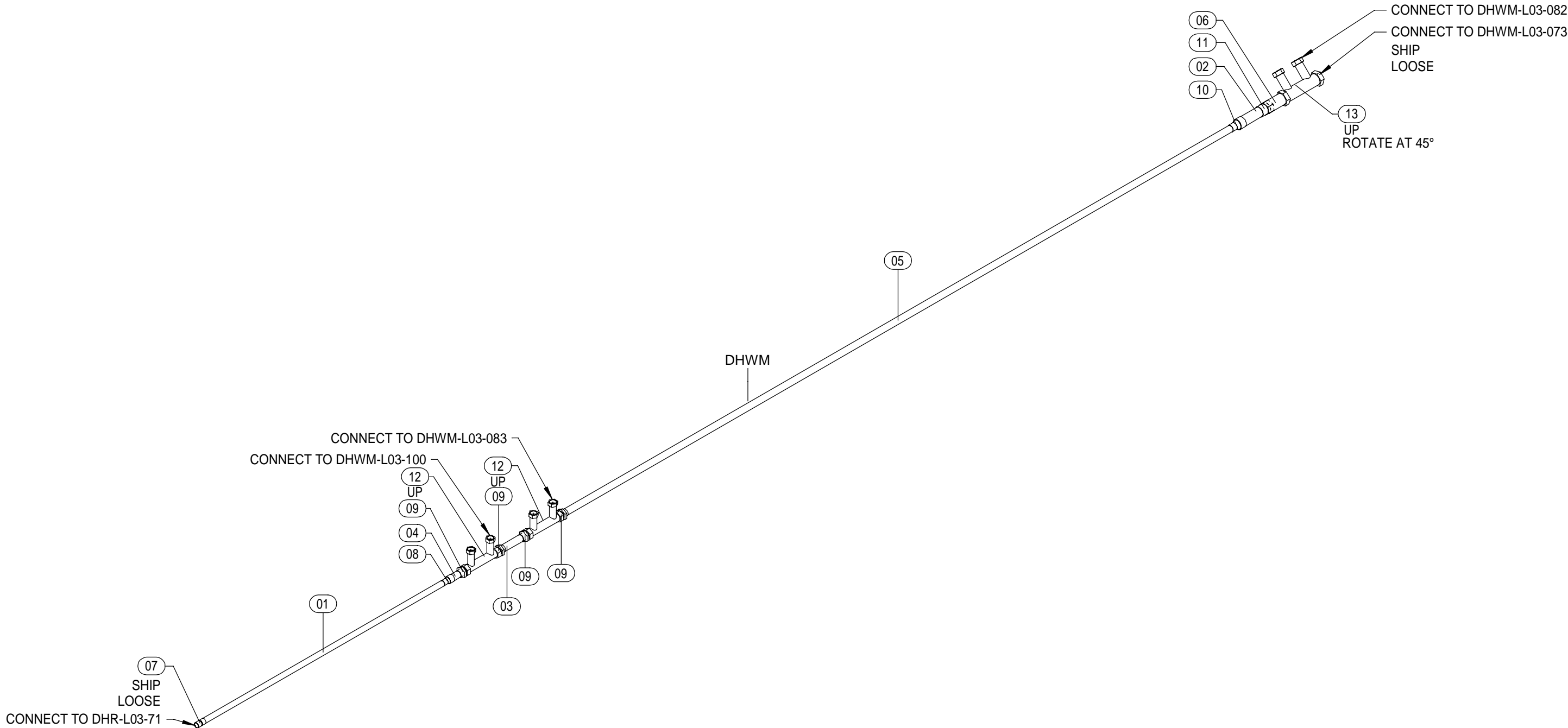
| | |
|------------------|--------------|
| JOB: | WASH U NRB |
| TICKET: | DCWM-L03-072 |
| Drawn By: Author | |
| DATE: 08/20/21 | DATE REQ: |



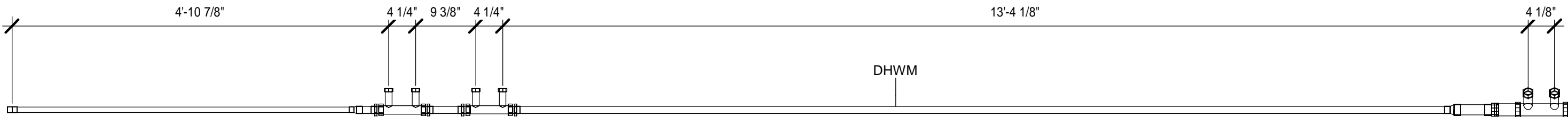
1233 N. Price Rd.
St. Louis, Mo 63132-2303
314-997-6600 phone

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20-08-2021 12:48:09

| Mark | Qty | Size | Description | Length | Strut Width | Rod 1 | Rod 2 | Insulation |
|------|-----|-----------|---|-------------|-------------|-------|-------|------------|
| 01 | 1 | 3/4" | Cerro Type L Hard Copper Pipe | 4'-5 3/8" | | | | 1" |
| 02 | 1 | 1 1/2" | Cerro Type L Hard Copper Pipe | 0'-5 7/8" | | | | 2" |
| 03 | 1 | 1" | Cerro Type L Hard Copper Pipe | 0'-5 11/16" | | | | 1" |
| 04 | 1 | 1" | Cerro Type L Hard Copper Pipe | 0'-3 1/4" | | | | 1" |
| 05 | 1 | 1" | Cerro Type L Hard Copper Pipe | 12'-2 3/16" | | | | 1" |
| 06 | 1 | 1 1/2" | Victaulic No.647 TT Dielectric Transition Fitting | | | | | 2" |
| 07 | 1 | 3/4" | Nibco Wrot 600 Dimpled Stop Coupling CxC | | | | | 1" |
| 08 | 1 | 1"x3/4" | Nibco Wrot 600R Red Cplg CxC | | | | | 1" |
| 09 | 4 | 1" | Nibco Wrot 604 Adapter CxM | | | | | 1" |
| 10 | 1 | 1 1/2"x1" | Nibco Wrot 600R Red Cplg CxC | | | | | 2" |
| 11 | 1 | 1 1/2" | Nibco Wrot 603 Adapter CxF | | | | | 2" |
| 12 | 2 | 1"x3/4" | Kemper Kemper Fig651 20 KHS Flow-Splitter FPT | | | | | 1" |
| 13 | 1 | 1 1/2"x1" | Kemper Kemper Fig651 20 KHS Flow-Splitter FPT | | | | | 2" |



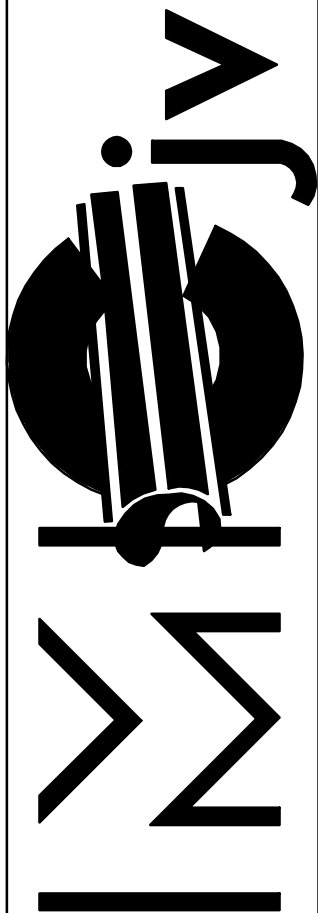
1 ISOMETRIC
SCALE:



2 RIGHT ELEVATION
SCALE: 3/4" = 1'-0"

| | | | |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

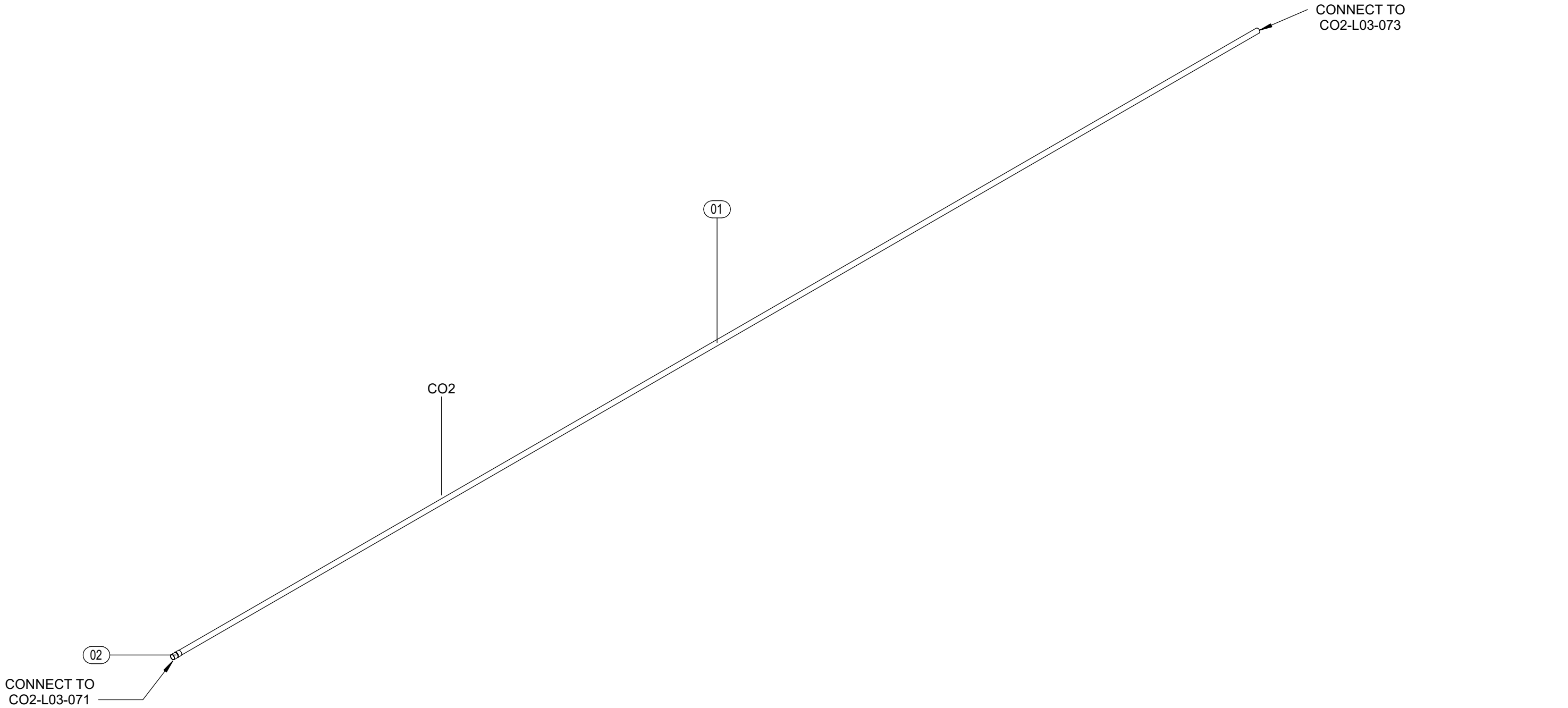
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|-----------------|----------------------|------------------|--------------------|
| JOB: WASH U NRB | TICKET: DHWM-L03-072 | Drawn By: Author | DATE REQ: 08/20/21 |
|-----------------|----------------------|------------------|--------------------|



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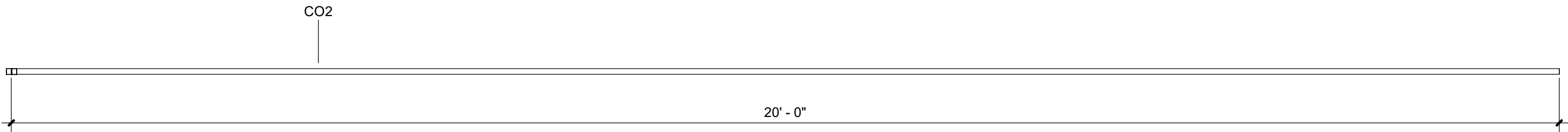
| Mark | Qty | Size | Description | Length | Strut Width | Rod 1 | Rod 2 | Insulation |
|------|-----|------|---|-------------|-------------|-------|-------|------------|
| 01 | 1 | 3/4" | Cerro Type L Hard Copper - CFOS | 19'-11 7/8" | | | | |
| 02 | 1 | 3/4" | Nibco 600-DS-CB CFOS Wrot Copper Coupling Staked Stop | | | | | |



1

ISOMETRIC

SCALE:



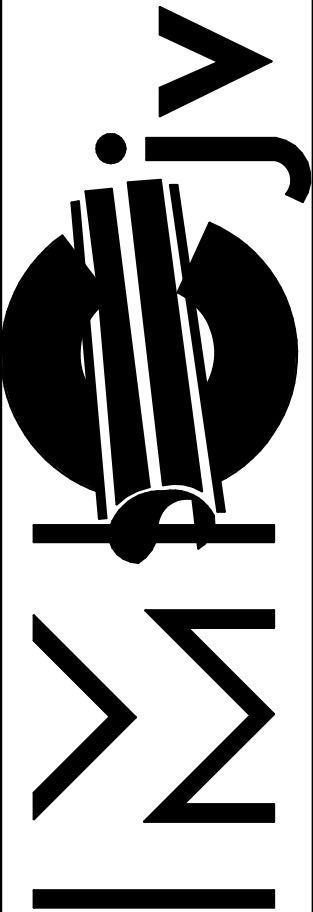
2

RIGHT ELEVATION

SCALE: 3/4" = 1'-0"

| | | | |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

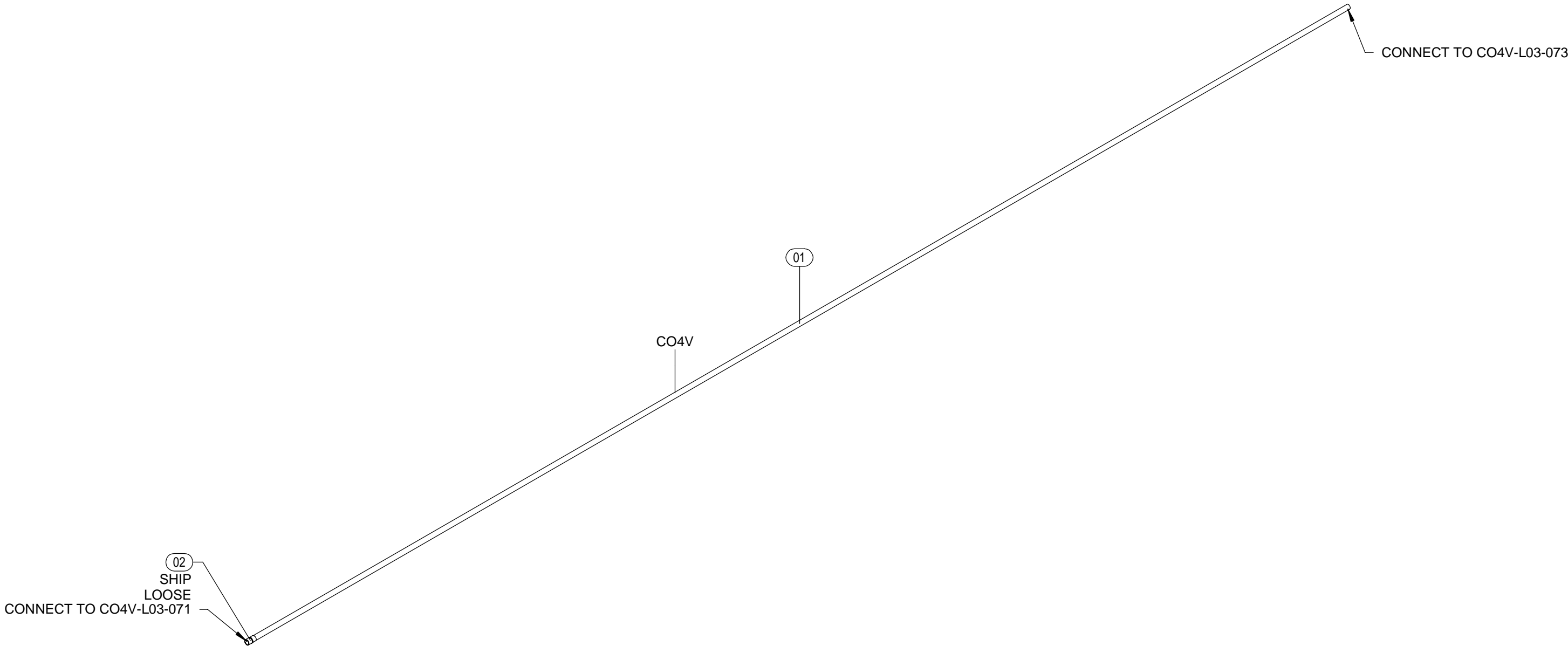
| | |
|------------------|-------------|
| JOB: | WASH U NRB |
| TICKET: | CO2-L03-072 |
| Drawn By: Author | |
| DATE: 08/10/21 | DATE REQ: |



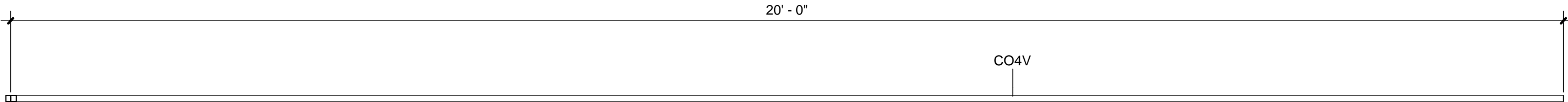
1233 N. Price Rd.
St. Louis, Mo 63132-2303
314-997-6600 phone

BIM 360/WUSM NRBWUSM_RB_PUF.rvt
18-08-2021 13:59:24

| Mark | Qty | Size | Description | Length | Strut Width | Rod 1 | Rod 2 | Insulation |
|------|-----|------|---|-------------|-------------|-------|-------|------------|
| 01 | 1 | 3/4" | Cerro Type L Hard Copper - CFOS | 19'-11 7/8" | | | | |
| 02 | 1 | 3/4" | Nibco 600-DS-CB CFOS Wrot Copper Coupling Staked Stop | | | | | |



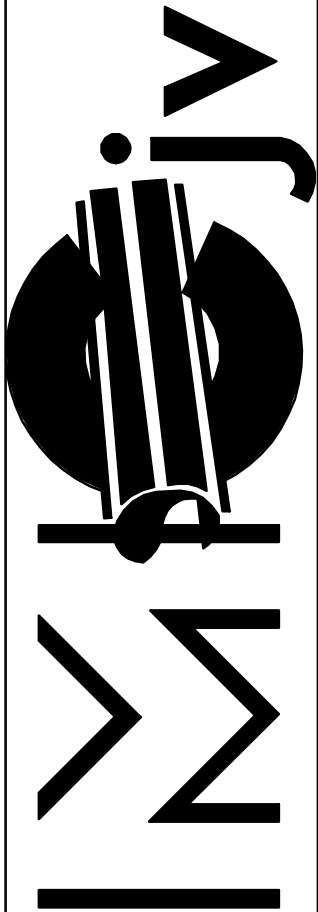
1 ISOMETRIC
SCALE:



2 RIGHT ELEVATION
SCALE: 3/4" = 1'-0"

| | | | |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

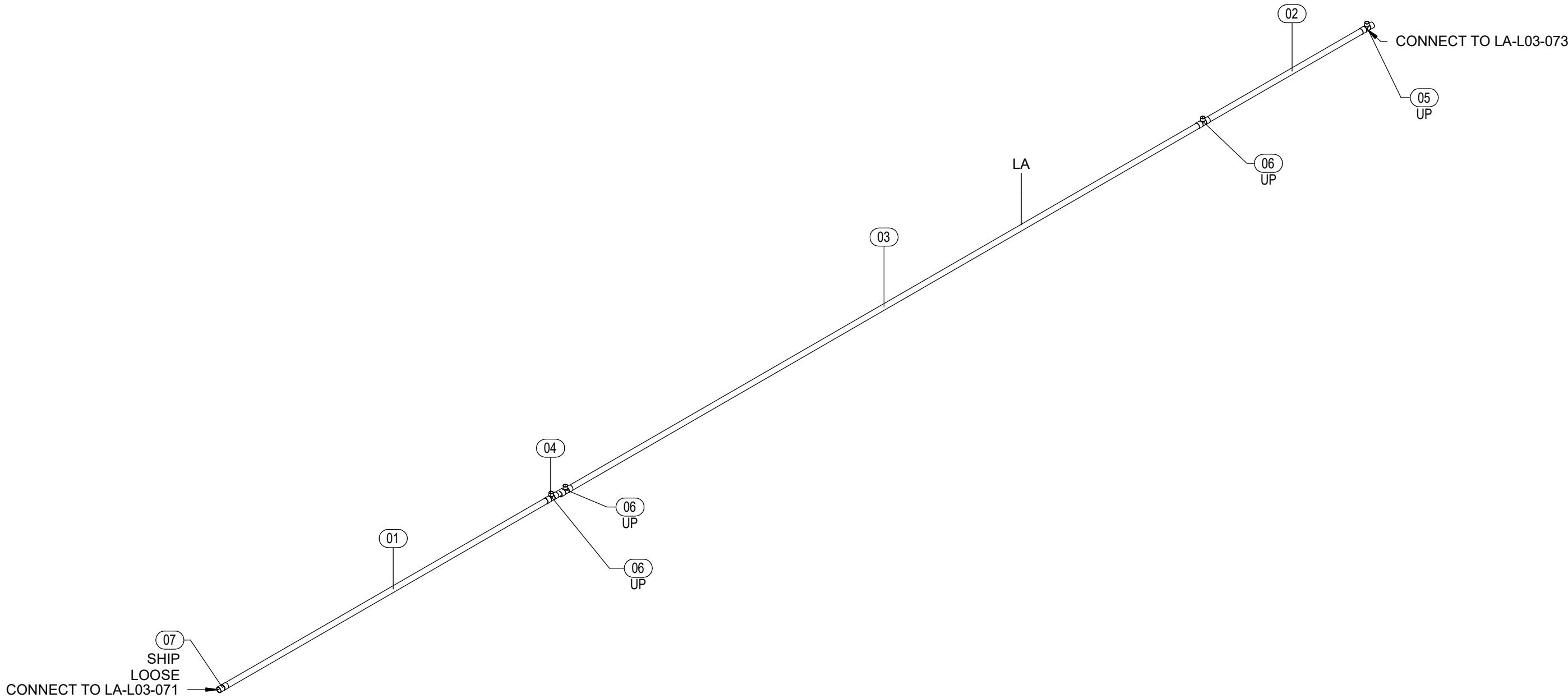
| | |
|------------------|--------------|
| JOB: | WASH U NRB |
| TICKET: | CO4V-L03-072 |
| Drawn By: Author | |
| DATE: 08/18/21 | DATE REQ: |



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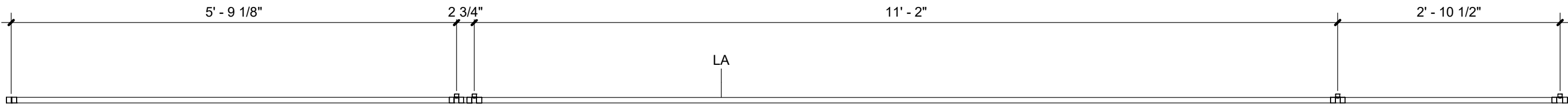
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1/11/2022 1:11:49 PM

| Mark | Qty | Size | Description | Length | Insulation |
|------|-----|----------------|---|------------|------------|
| 01 | 1 | 3/4" | Cerro Type L Hard Copper - CFOS | 5'-8 5/8" | |
| 02 | 1 | 3/4" | Cerro Type L Hard Copper - CFOS | 2'-9 5/8" | |
| 03 | 1 | 3/4" | Cerro Type L Hard Copper - CFOS | 11'-1 1/4" | |
| 04 | 1 | 3/4" | Cerro Type L Hard Copper - CFOS | 0'-2" | |
| 05 | 1 | 3/4"x1/2"x3/4" | Nibco 611R-CB CFOS Wrot Copper Reducing Tee | | |
| 06 | 3 | 3/4"x1/2" | Nibco 611R-CB CFOS Wrot Copper Reducing Tee | | |
| 07 | 1 | 3/4" | Nibco 600-DS-CB CFOS Wrot Copper Coupling Staked Stop | | |



1 ISOMETRIC

SCALE:

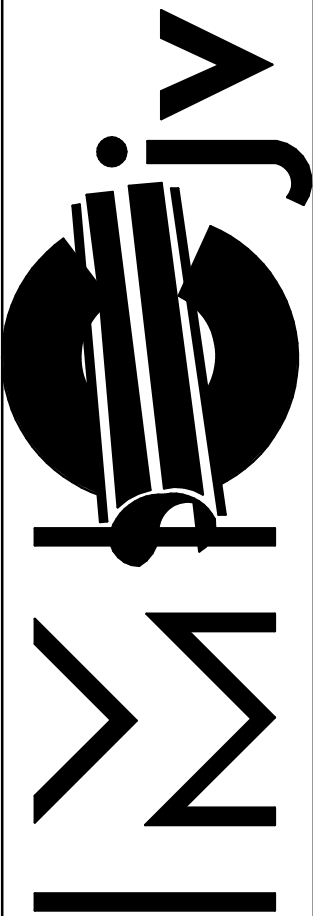


2 RIGHT ELEVATION

SCALE: 3/4" = 1'-0"

| | | | |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

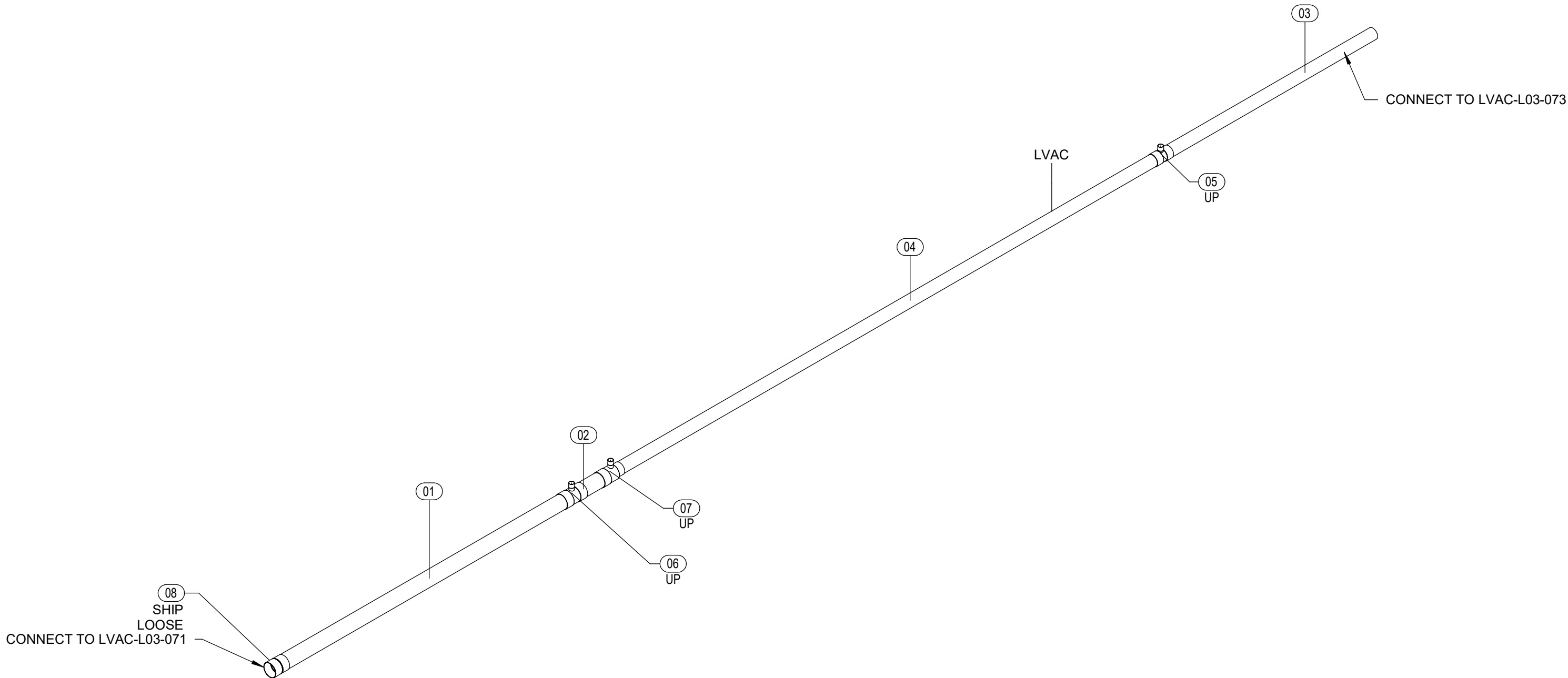
JOB: WASH U NRB
TICKET: LA-L03-072
Drawn By: Author
DATE: 08/18/21
DATE REQ:



1233 N. Price Rd.
St. Louis, Mo 63132-2303
314-997-6600 phone

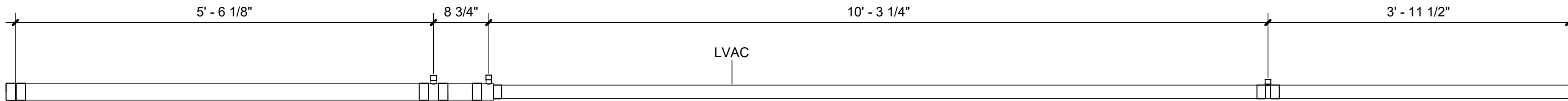
BIM 360//WUSM NRBWUSM_RB_PUF.rvt
1/11/2022 1:12:11 PM

| Mark | Qty | Size | Description | Length | Insulation |
|------|-----|----------------|---|------------|------------|
| 01 | 1 | 2 1/2" | Cerro Type L Hard Copper - CFOS | 5'-5 1/4" | |
| 02 | 1 | 2 1/2" | Cerro Type L Hard Copper - CFOS | 0'-6 7/8" | |
| 03 | 1 | 2" | Cerro Type L Hard Copper - CFOS | 3'-11 1/8" | |
| 04 | 1 | 2" | Cerro Type L Hard Copper - CFOS | 10'-2 1/8" | |
| 05 | 1 | 2"x3/4" | Nibco 611R-CB CFOS Wrot Copper Reducing Tee | | |
| 06 | 1 | 2 1/2"x3/4" | Nibco 611R-CB CFOS Wrot Copper Reducing Tee | | |
| 07 | 1 | 2 1/2"x2"x3/4" | Nibco 611R-CB CFOS Wrot Copper Reducing Tee | | |
| 08 | 1 | 2 1/2" | Nibco 600-DS-CB CFOS Wrot Copper Coupling Staked Stop | | |



1 ISOMETRIC

SCALE:

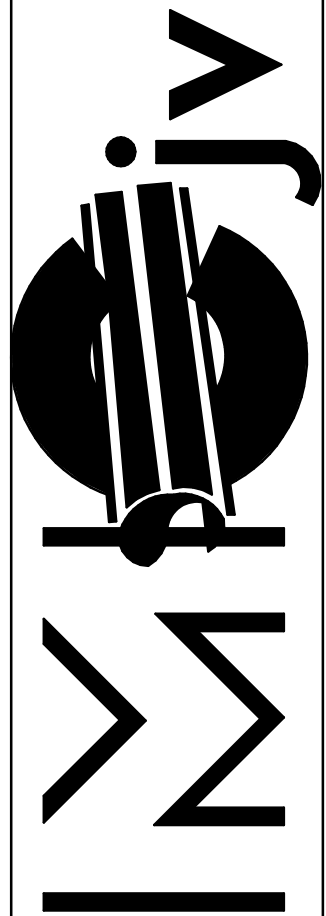


2 RIGHT ELEVATION

SCALE: 3/4" = 1'-0"

| | | | |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |

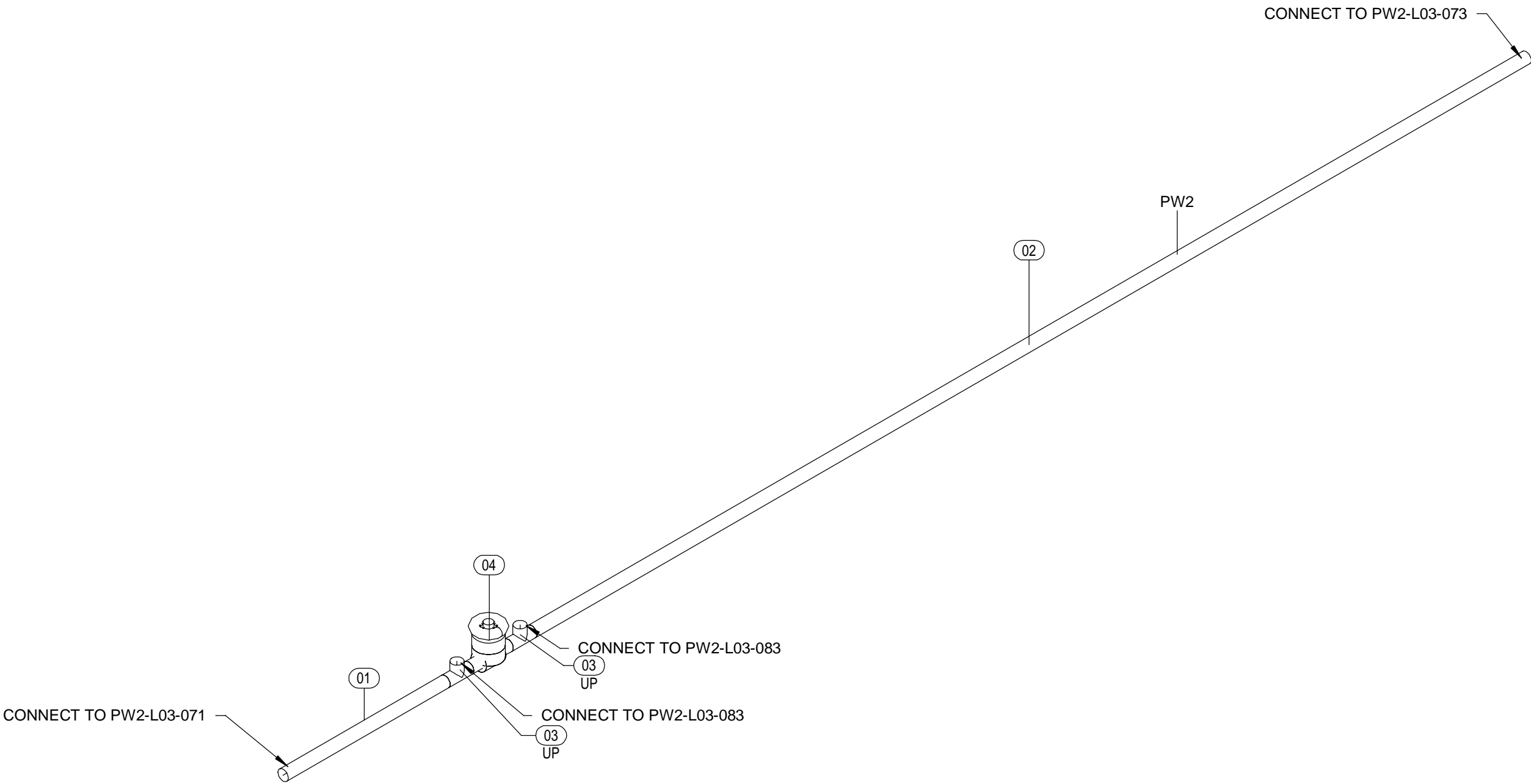
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|-----------|--------------|
| JOB: | WASH U NRB |
| TICKET: | LVAC-L03-072 |
| Drawn By: | Author |
| DATE: | 08/18/21 |
| DATE REQ: | |



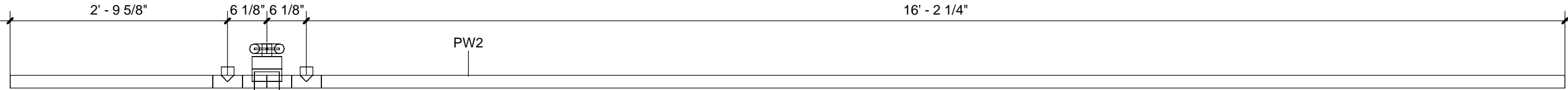
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BIM 360/WUSM NRBWUSM_RB_PUF.rvt
17-08-2021 10:22:29

| Mark | Qty | Size | Description | Length | Strut Width | Rod 1 | Rod 2 | Insulation |
|------|-----|--------|--|------------|-------------|-------|-------|------------|
| 01 | 1 | 1 1/2" | Geroge Fischer Sloane PROGEF STD-PP IR Butt-Fusion Pipe | 2'-7 5/16" | | | | |
| 02 | 1 | 1 1/2" | Geroge Fischer Sloane PROGEF STD-PP IR Butt-Fusion Pipe | 16'-0" | | | | |
| 03 | 2 | 1 1/2" | Geroge Fischer Sloane PROGEF STD-PP IR Butt-Fusion Tee | | | | | |
| 04 | 1 | 1 1/2" | George Fischer Sloane PROGEF STD-PP Type 515 EDPM Diaphragm Valve BF | | | | | |

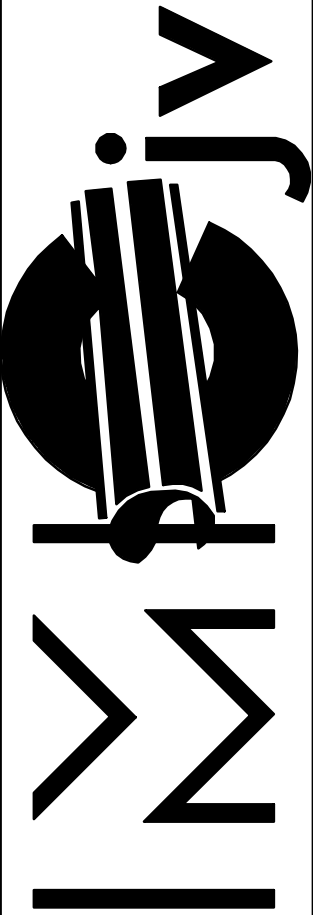


1 ISOMETRIC
SCALE:



2 RIGHT ELEVATION
SCALE: 3/4" = 1'-0"

| | | | |
|----|----|----|----|
| A1 | A3 | B1 | B3 |
| A2 | A4 | B2 | B4 |



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