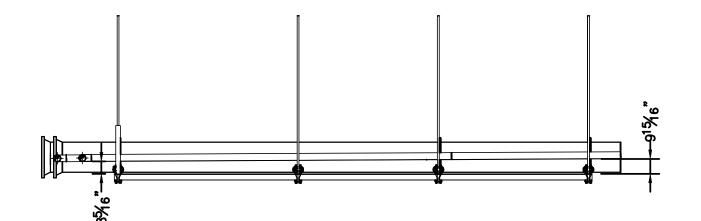


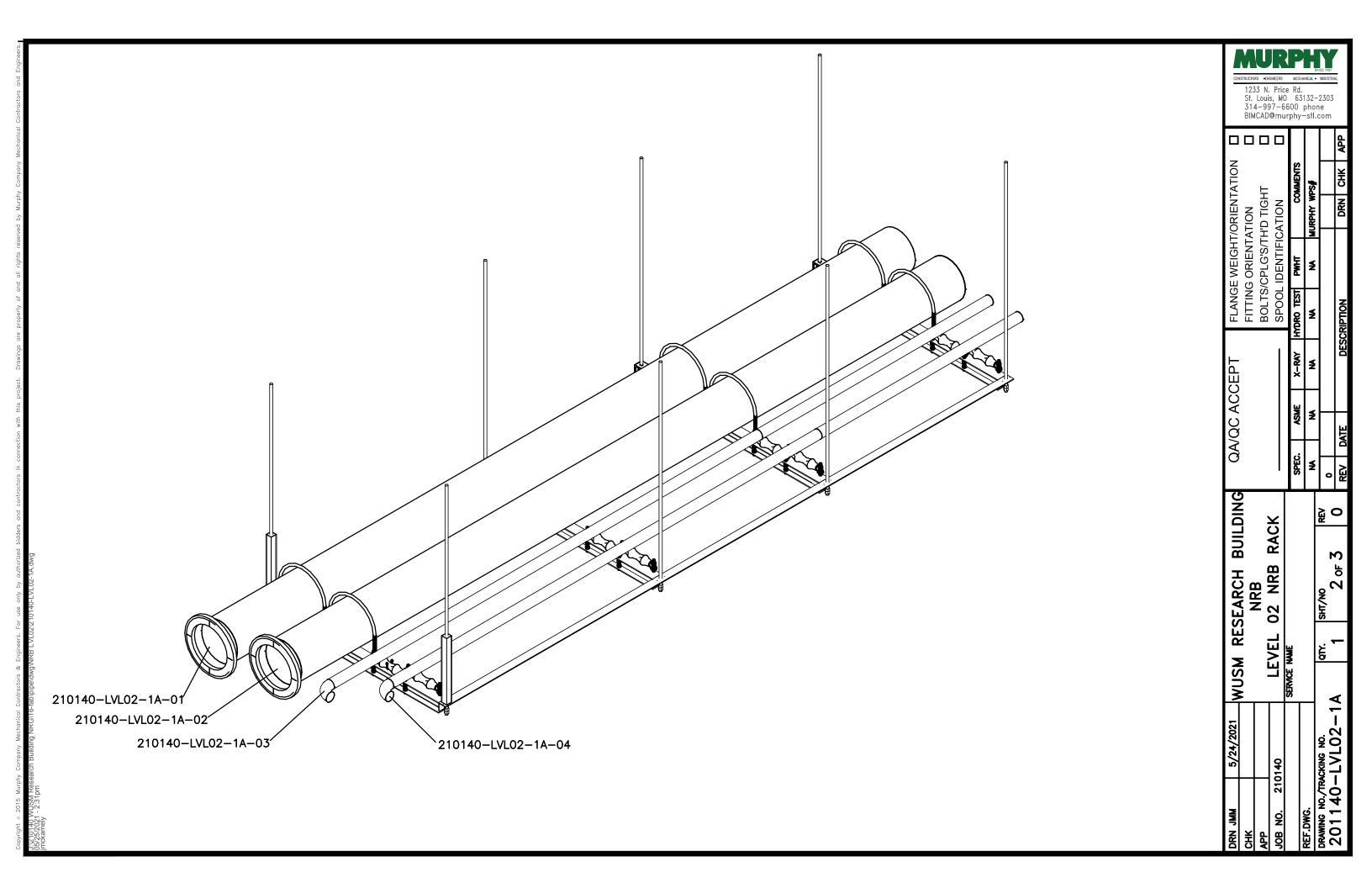
-1" INSULATION

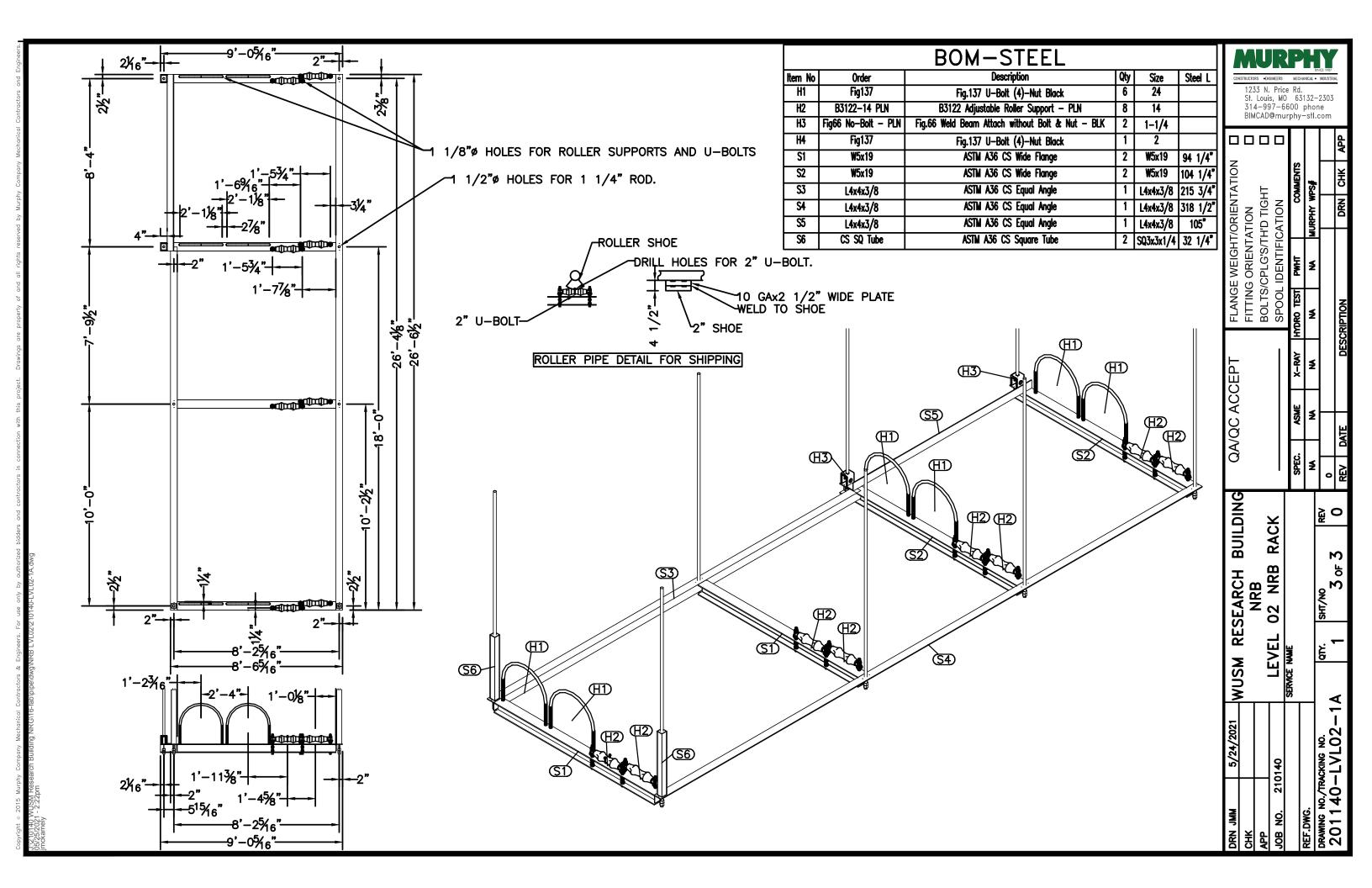
1'-23/16"

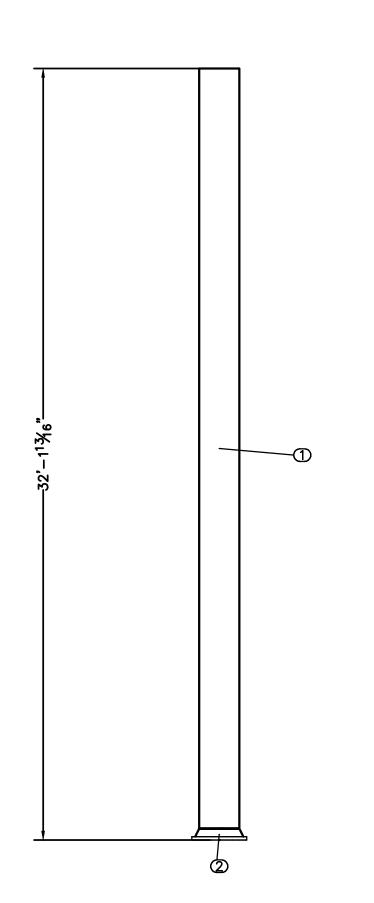
1/2" INSULATION



| DRN JMM                  | 5/24/2021  WIICM DECEADOU | WISH         | 1 054      | יוום חספאם:      | CNIC | QAV      | <b>2A/QC ACCEPT</b> | )EPT  | FLANG       | FLANGE WEIGHT/ORIENTATION | ORIENTA    | NOIL        |     | COI             | _                    |
|--------------------------|---------------------------|--------------|------------|------------------|------|----------|---------------------|-------|-------------|---------------------------|------------|-------------|-----|-----------------|----------------------|
| CHK                      |                           | ¥<br>20 * [  | ,<br> <br> |                  |      |          |                     |       | FITTIN      | FITTING ORIENTATION       | NOIT       |             |     |                 | $\overline{\Lambda}$ |
| APP                      |                           |              | į          | (                |      |          |                     |       | BOLTS,      | BOLTS/CPLG'S/TH'D TIGHT   | 'D TIGHT   |             |     |                 |                      |
| JOB NO. 210140           | 0140                      | F            | VEL        | LEVEL UZ NRB KAC | ACK  |          |                     |       | COG         | SPOOL IDENTIFICATION      | ATION      |             |     | 97-             | 4                    |
|                          |                           | AN JOHNS     | ANAE       |                  |      |          |                     |       | 000         |                           | 1011       |             | ]   | ice<br>(0<br>66 |                      |
|                          |                           | SERVICE NAME |            |                  |      | SPEC.    | ASME                | X-RAY | HYDRO TEST  | PWHT                      | COM        | COMMENTS    |     | Rc<br>6         |                      |
| BEE DWG                  |                           |              |            |                  |      |          |                     |       |             | <b> </b>                  |            |             |     | 313<br>p        |                      |
| יטייט: ובאי              |                           |              |            |                  |      | ¥        | ≨                   | ¥     | ž           | <u>₹</u>                  | URPHY WPS# | *           |     | 32-<br>ho       | 1                    |
| DRAWING NO./TRACKING NO. | ACKING NO.                |              | an.        | SHT/NO           | REV  |          | ]                   |       |             |                           |            | <u> </u>    |     | -23<br>ne       | SINCE 1              |
| 001110                   | A                         |              | •          | ^                | (    | 0        |                     |       |             |                           |            |             |     |                 | 907                  |
| -041107                  | -FVLUZ-1                  | <            | _          | ი<br>당           | >    | REV DATE | ATE                 | DES   | DESCRIPTION |                           | DRN        | DRN CHK APP | APP | AL              | _                    |







|      |     | Murphy-PFFS-SI                       | PO(   | DL-   | -B0    | М       |      |
|------|-----|--------------------------------------|-------|-------|--------|---------|------|
| Mark | Qty | Description                          | End 1 | End 2 | Lft    | LDec    | Size |
| 2    | 1   | 150lb RF Sch 40 Bore SA105 CS WN Flg |       |       |        |         | 20   |
| 1    | 1   | Std Wt SA-53B CS ERW Pipe PE         | BEV   | BEV   | 31'-8" | 380.000 | 20   |

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5t. Louis, MO 63132-2303

314-997-6600 phone

BIMCAD@murphy-stl.com

| /25 /2021       |                   |                  |          |              | H C C | Ĭ.                    |                         | H 4                             |          | H |
|-----------------|-------------------|------------------|----------|--------------|-------|-----------------------|-------------------------|---------------------------------|----------|---|
| 1707/07/        | 25/202/ WIISM RFG | STABOT BILL DING |          | CAVIC ACCEPT | CCEPI | FLANG                 | E WEIGH I               | FLANGE WEIGH I/ORIEN I A I I ON |          |   |
|                 |                   |                  | <u> </u> |              |       | FITTING               | FITTING ORIENTATION     | NOIT                            |          |   |
|                 |                   | אאס פאס          |          |              |       | BOLTS                 | BOLTS/CPLG'S/TH'D TIGHT | 4'D TIGHT                       |          |   |
| •               |                   | OZ KACKS         |          |              |       | COGR                  | SPOOL IDENTIFICATION    | NOITA                           |          |   |
|                 | COUNTY TOWARD     |                  |          |              |       | 0                     |                         |                                 | ]        | _ |
|                 | SERVICE NAME      | 4 7 00 5         | SPEC.    | C. ASME      |       | X-RAY HYDRO TEST PWHT | PWHT                    | COMMENTS                        | IS<br>IS | _ |
|                 | <u>َ</u><br>      | VLU2-1A          |          | t            | L     |                       | Ι                       |                                 |          | _ |
|                 |                   |                  | <b>≨</b> | ≨            | ¥     | ¥                     | <u> </u>                | MURPHY WPS#                     |          | _ |
| ₹<br>2 %<br>2 % | Ĕ.                | SHT/NO           | SEA<br>O |              |       |                       |                         |                                 |          |   |
| VL02-1A-01      | A-01              | <u>-</u><br>-    | C<br>REV | REV DATE     | DES   | DESCRIPTION           |                         | DRN CHK APP                     | K APP    |   |
|                 |                   |                  | !        | -            |       |                       |                         |                                 |          |   |

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|      |     | Murphy-PFFS-SI                       | P0(   | DL-   | -BO    | М       |      |
|------|-----|--------------------------------------|-------|-------|--------|---------|------|
| Mark | Qtу | Description                          | End 1 | End 2 | Lft    | LDec    | Size |
| 2    | 1   | 150lb RF Sch 40 Bore SA105 CS WN Flg |       |       |        |         | 20   |
| 1    | 1   | Std Wt SA-53B CS ERW Pipe PE         | BEV   | BEV   | 31'-0" | 372.000 | 20   |



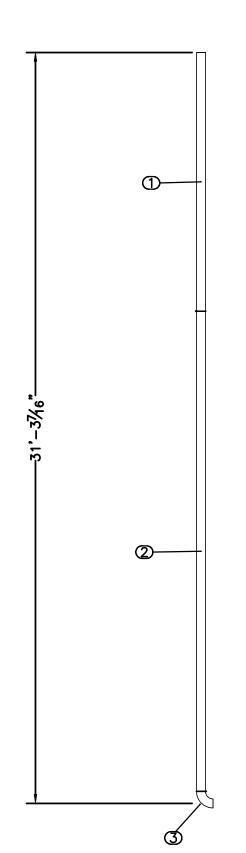
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|--------|-------|-------|-----|-----------|
| St. Lo | ouis, | MO    | 63  | 3132-2303 |
| 314-   | 997   | -66   | 00  | phone     |
| BIMC   | AD@   | mur   | ohy | ∸stl.com  |
|        |       |       | ,   |           |

| 3/2021 WIISM RESEARCH RIIII DING |       | QA/QC ACCEPT | )EPT  | FLANG                 | E WEIGHT,               | FLANGE WEIGHT/ORIENTATION | □<br>N   |
|----------------------------------|-------|--------------|-------|-----------------------|-------------------------|---------------------------|----------|
|                                  |       |              |       | FITTIN                | FITTING ORIENTATION     | NOIT                      |          |
| NAG                              |       |              |       | BOLTS/                | BOLTS/CPLG'S/TH'D TIGHT | 4'D TIGHT                 |          |
| LVLUZ KACKS                      |       |              |       |                       | SPOOL IDENTIFICATION    | NOITA                     |          |
| SERVE MANE                       |       |              |       | 000                   | ו וייין                 | 1011                      | ]        |
| SERVICE NAME                     | SPEC. | ASME         | X-RAY | X-RAY HYDRO TEST PWHT | PWHT                    | COMMENTS                  | <u>ہ</u> |
| <b>▼</b>  -/0                    |       |              |       |                       |                         |                           |          |
|                                  | ž     | ≨            | ≨     | ž                     | ž                       | MURPHY WPS#               |          |
| NO. GTY. SHT/NO REV              | •     | _            |       |                       |                         |                           |          |
| .02-1A-04 1   10F1   0           | REV   | DATE         | DESC  | DESCRIPTION           |                         | DRN CHK                   | APP      |
|                                  |       |              |       |                       |                         |                           |          |

| ——31'–5 <sup>1</sup> ¾6"——                   |          |    | (        | 1 |
|--|----------|----|----------|---|
|  |          |    |          |   |
|  |          |    |          |   |
| <u>,                                    </u> | <u> </u> | (2 | <u>.</u> |   |



|      |     | Murphy-PFFS-                     | SP    | 00    | L-B0       | М       |      |   |
|------|-----|----------------------------------|-------|-------|------------|---------|------|---|
| Mark | Qty | Description                      | End 1 | End 2 | Lft        | LDec    | Size | c |
| 3    | 1   | XH SA234 WPB CS BW LR 90 Deg EII |       |       |            |         | 4    |   |
| 1    | 1   | XH SA-53B CS SMLS Pipe           | BEV   | BEV   | 10'-9 1/4" | 129.246 | 4    |   |
| 2    | 1   | XH SA-53B CS SMLS Pipe           | BEV   | BEV   | 20'-0"     | 240.000 | 4    |   |

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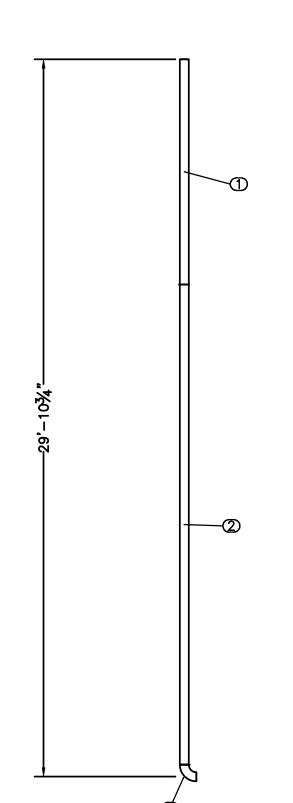
5t. Louis, MO 63132-2303

314-997-6600 phone

BIMCAD@murphy-stl.com

| ျှ | COMMENTS | 8     |         | PWHT   | ASME X-RAY HYDRO TEST PWHT | ¥ | X-RA         | ASME | Н   | SPEC. | VI 02-14        | SERVICE NAME |
|----|----------|-------|---------|--------|----------------------------|---|--------------|------|-----|-------|-----------------|--------------|
|    |          | NOIT  | TIFICA. | IDEN   | SPOOL IDENTIFICATION       | ı |              |      |     |       | LUZ KACKS       | ֻן ַ         |
|    | ⊭        | TIGH  | 'S/TH'E | 'CPLG' | BOLTS/CPLG'S/TH'D TIGHT    |   |              |      |     |       |                 |              |
|    |          | NO    | ENTAT   | 3 ORIE | FITTING ORIENTATION        |   |              |      |     |       |                 |              |
| z  | -ATIO    | RIENT | 3HT/0   | E WEI  | FLANGE WEIGHT/ORIENTATION  |   | QA/QC ACCEPT | CAC  | M/Q |       | SFARCH BUILDING | WIISM RESI   |

MPC



|      |     | Murphy-PFFS-                     | SP    | 00    | L-B0       | М       |      |   |
|------|-----|----------------------------------|-------|-------|------------|---------|------|---|
| Mark | Qty | Description                      | End 1 | End 2 | Lft        | LDec    | Size |   |
| 3    | 1   | XH SA234 WPB CS BW LR 90 Deg Ell |       |       |            |         | 4    |   |
| 1    | 1   | XH SA-53B CS SMLS Pipe           | BEV   | BEV   | 9'-4 9/16" | 112.538 | 4    |   |
| 2    | 1   | XH SA-53B CS SMLS Pipe           | BEV   | BEV   | 20'-0"     | 240.000 | 4    | L |

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|--------------|-------------|
| t. Louis, MO | 63132-2303  |
| 14-997-66    | 00 phone    |
| IMCAD@murj   | ohy-stl.com |
|              | ,           |

| 021         | WIISW BESEABCH BIIII DING                      |          | QA/QC ACCEPT | CEPT                       | FLANG       | E WEIGHT/               | FLANGE WEIGHT/ORIENTATION |     |
|-------------|--|----------|--------------|----------------------------|-------------|-------------------------|---------------------------|-----|
|             | MOSIM INCOLUNION DOILE                         |          | •            |                            | FITTING     | FITTING ORIENTATION     | NOIL                      |     |
|             | MYN<br>O C C C C C C C C C C C C C C C C C C C |          |              |                            | BOLTS/      | BOLTS/CPLG'S/TH'D TIGHT | I'D TIGHT                 |     |
|             | LVL02 RACKS                                    |          |              |                            | SPOOL       | SPOOL IDENTIFICATION    | ATION                     |     |
|             | SERVICE NAME                                   | Spec     | H            | ASME X-RAY HYDRO TEST PWHT | HYDRO TEST  | PWHT                    | COMMENTS                  |     |
|             | V 02-1   | í        |              |                            |             |                         | Comment                   |     |
|             | L1 F0 F I F                                    | ¥        | ¥            | ¥                          | ¥           | AN AN                   | MURPHY WPS#               |     |
|             | 2.4  |          |              |                            |             |                         | W                         |     |
| . 0         | QIY. SHI/NO                                    | SEV<br>O |              |                            |             |                         |                           |     |
| -<br>-<br>- | 2-18-04 1   10F1                               | ) REV    | REV DATE     | DES                        | DESCRIPTION |                         | DRN CHK APP               | APP |

LPC