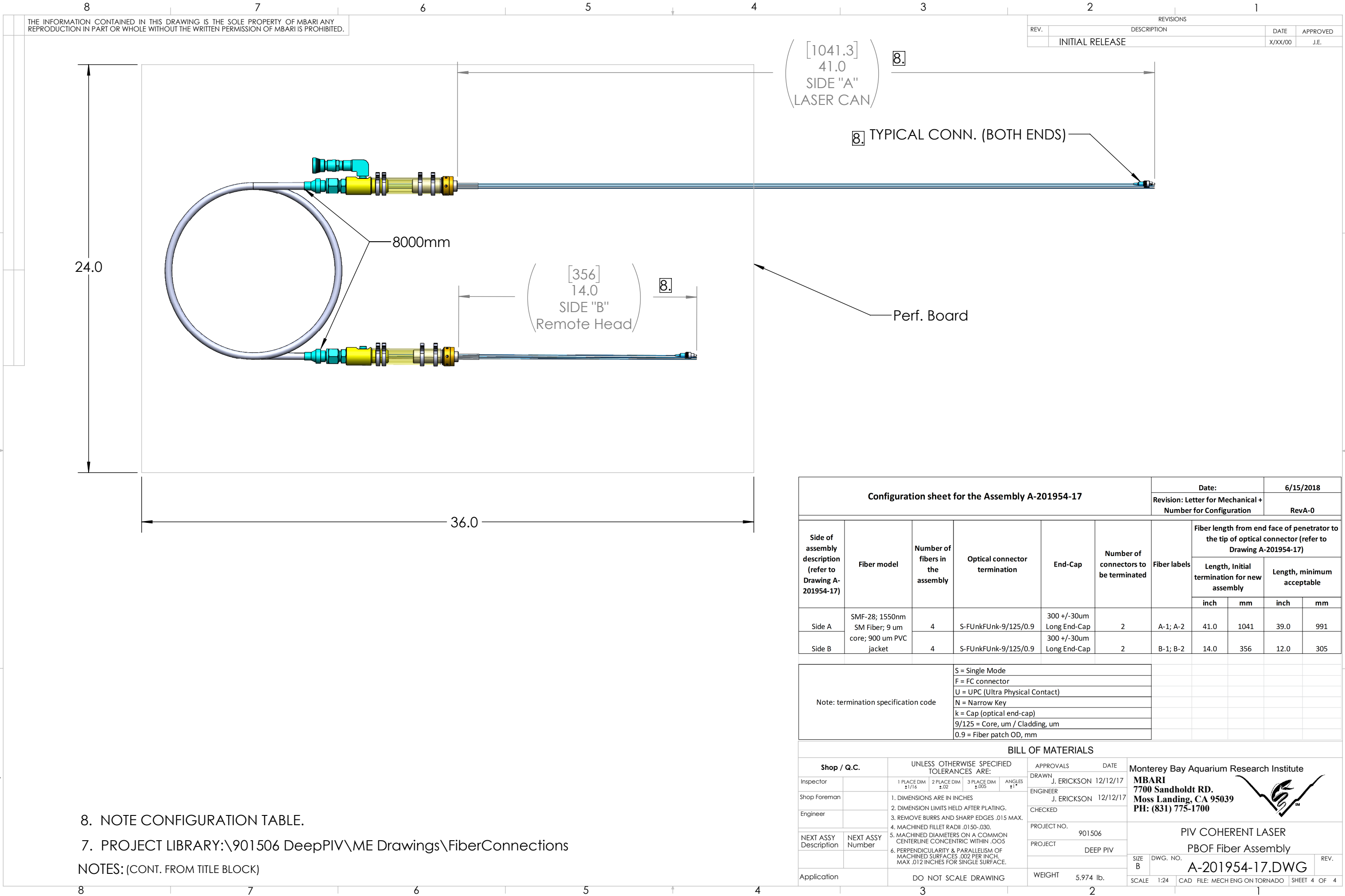




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| REVISIONS |                 |         |          |
|-----------|-----------------|---------|----------|
| REV.      | DESCRIPTION     | DATE    | APPROVED |
|           | INITIAL RELEASE | X/XX/00 | J.E.     |

[1041.3]  
41.0  
SIDE "A"  
LASER CAN

8. TYPICAL CONN. (BOTH ENDS)

Perf. Board

8000mm

[356]  
14.0  
SIDE "B"  
Remote Head

8.

36.0

24.0

8. NOTE CONFIGURATION TABLE.

7. PROJECT LIBRARY:\901506 DeepPIV\ME Drawings\FiberConnections

NOTES: (CONT. FROM TITLE BLOCK)

| Configuration sheet for the Assembly A-201954-17                            |                                                                |                                                                                                                                                                                                                                                                                                                                                          |                                  |                             |                                             |              | Date:                                                                                                         | 6/15/2018                     |                               |                                                                                                                                                                                                                                                                                                                                                             |  |
|-----------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------|---------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                             |                                                                |                                                                                                                                                                                                                                                                                                                                                          |                                  |                             |                                             |              | Revision: Letter for Mechanical +<br>Number for Configuration                                                 |                               | RevA-0                        |                                                                                                                                                                                                                                                                                                                                                             |  |
| Side of<br>assembly<br>description<br>(refer to<br>Drawing A-<br>201954-17) | Fiber model                                                    | Number of<br>fibers in<br>the<br>assembly                                                                                                                                                                                                                                                                                                                | Optical connector<br>termination | End-Cap                     | Number of<br>connectors to<br>be terminated | Fiber labels | Fiber length from end face of penetrator to<br>the tip of optical connector (refer to<br>Drawing A-201954-17) |                               |                               |                                                                                                                                                                                                                                                                                                                                                             |  |
|                                                                             |                                                                |                                                                                                                                                                                                                                                                                                                                                          |                                  |                             |                                             |              | Length, Initial<br>termination for new<br>assembly                                                            |                               | Length, minimum<br>acceptable |                                                                                                                                                                                                                                                                                                                                                             |  |
|                                                                             |                                                                |                                                                                                                                                                                                                                                                                                                                                          |                                  |                             |                                             |              | inch                                                                                                          | mm                            | inch                          | mm                                                                                                                                                                                                                                                                                                                                                          |  |
| Side A                                                                      | SMF-28; 1550nm<br>SM Fiber; 9 um<br>core; 900 um PVC<br>jacket | 4                                                                                                                                                                                                                                                                                                                                                        | S-FunkFunk-9/125/0.9             | 300 +/-30um<br>Long End-Cap | 2                                           | A-1; A-2     | 41.0                                                                                                          | 1041                          | 39.0                          | 991                                                                                                                                                                                                                                                                                                                                                         |  |
| Side B                                                                      |                                                                | 4                                                                                                                                                                                                                                                                                                                                                        | S-FunkFunk-9/125/0.9             | 300 +/-30um<br>Long End-Cap | 2                                           | B-1; B-2     | 14.0                                                                                                          | 356                           | 12.0                          | 305                                                                                                                                                                                                                                                                                                                                                         |  |
| Note: termination specification code                                        |                                                                |                                                                                                                                                                                                                                                                                                                                                          | S = Single Mode                  |                             |                                             |              |                                                                                                               |                               |                               |                                                                                                                                                                                                                                                                                                                                                             |  |
|                                                                             |                                                                |                                                                                                                                                                                                                                                                                                                                                          | F = FC connector                 |                             |                                             |              |                                                                                                               |                               |                               |                                                                                                                                                                                                                                                                                                                                                             |  |
|                                                                             |                                                                |                                                                                                                                                                                                                                                                                                                                                          | U = UPC (Ultra Physical Contact) |                             |                                             |              |                                                                                                               |                               |                               |                                                                                                                                                                                                                                                                                                                                                             |  |
|                                                                             |                                                                |                                                                                                                                                                                                                                                                                                                                                          | N = Narrow Key                   |                             |                                             |              |                                                                                                               |                               |                               |                                                                                                                                                                                                                                                                                                                                                             |  |
|                                                                             |                                                                |                                                                                                                                                                                                                                                                                                                                                          | k = Cap (optical end-cap)        |                             |                                             |              |                                                                                                               |                               |                               |                                                                                                                                                                                                                                                                                                                                                             |  |
|                                                                             |                                                                |                                                                                                                                                                                                                                                                                                                                                          | 9/125 = Core, um / Cladding, um  |                             |                                             |              |                                                                                                               |                               |                               |                                                                                                                                                                                                                                                                                                                                                             |  |
|                                                                             |                                                                |                                                                                                                                                                                                                                                                                                                                                          | 0.9 = Fiber patch OD, mm         |                             |                                             |              |                                                                                                               |                               |                               |                                                                                                                                                                                                                                                                                                                                                             |  |
| BILL OF MATERIALS                                                           |                                                                |                                                                                                                                                                                                                                                                                                                                                          |                                  |                             |                                             |              |                                                                                                               |                               |                               |                                                                                                                                                                                                                                                                                                                                                             |  |
| Shop / Q.C.                                                                 |                                                                | UNLESS OTHERWISE SPECIFIED<br>TOLERANCES ARE:                                                                                                                                                                                                                                                                                                            |                                  |                             |                                             | APPROVALS    |                                                                                                               | DATE                          |                               | <div>Monterey Bay Aquarium Research Institute</div> <div>MBARI</div> <div>7700 Sandholdt RD.</div> <div>Moss Landing, CA 95039</div> <div>PH: (831) 775-1700</div> <div></div> <div>PIV COHERENT LASER</div> <div>PBOF Fiber Assembly</div> <div>A-201954-17.DWG</div> |  |
| Inspector                                                                   |                                                                | 1 PLACE DIM<br>±1/16                                                                                                                                                                                                                                                                                                                                     | 2 PLACE DIM<br>±.02              | 3 PLACE DIM<br>±.005        | ANGLES<br>±1°                               | DRAWN        | J. ERICKSON                                                                                                   | 12/12/17                      |                               |                                                                                                                                                                                                                                                                                                                                                             |  |
| Shop Foreman                                                                |                                                                | 1. DIMENSIONS ARE IN INCHES<br>2. DIMENSION LIMITS HELD AFTER PLATING.<br>3. REMOVE BURRS AND SHARP EDGES .015 MAX.<br>4. MACHINED FILLET RADII .0150-.030.<br>5. MACHINED DIAMETERS ON A COMMON<br>CENTERLINE CONCENTRIC WITHIN .005<br>6. PERPENDICULARITY & PARALLELISM OF<br>MACHINED SURFACES .002 PER INCH,<br>MAX .012 INCHES FOR SINGLE SURFACE. |                                  |                             |                                             | ENGINEER     | J. ERICKSON                                                                                                   | 12/12/17                      |                               |                                                                                                                                                                                                                                                                                                                                                             |  |
| Engineer                                                                    |                                                                |                                                                                                                                                                                                                                                                                                                                                          |                                  |                             |                                             | CHECKED      |                                                                                                               |                               |                               |                                                                                                                                                                                                                                                                                                                                                             |  |
| NEXT ASSY<br>Description                                                    | NEXT ASSY<br>Number                                            |                                                                                                                                                                                                                                                                                                                                                          |                                  |                             |                                             | PROJECT NO.  | 901506                                                                                                        |                               |                               |                                                                                                                                                                                                                                                                                                                                                             |  |
|                                                                             |                                                                |                                                                                                                                                                                                                                                                                                                                                          |                                  |                             |                                             | PROJECT      | DEEP PIV                                                                                                      |                               |                               |                                                                                                                                                                                                                                                                                                                                                             |  |
| Application                                                                 |                                                                | DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                                                                     |                                  |                             |                                             | WEIGHT       | 5.974 lb.                                                                                                     | SIZE<br>B                     | DWG. NO.                      | REV.                                                                                                                                                                                                                                                                                                                                                        |  |
|                                                                             |                                                                |                                                                                                                                                                                                                                                                                                                                                          |                                  |                             |                                             | SCALE        | 1:24                                                                                                          | CAD FILE: MECH ENG ON TORNADO | SHEET 4 OF 4                  |                                                                                                                                                                                                                                                                                                                                                             |  |