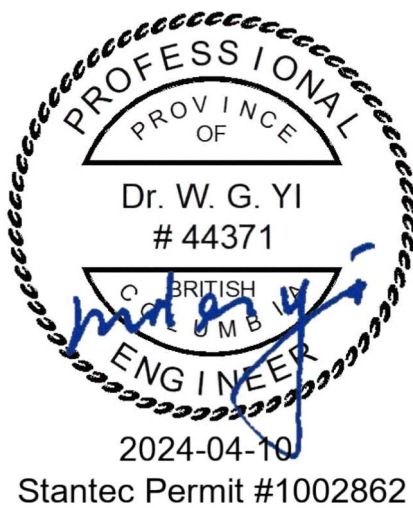




# SUNSHINE COAST REGIONAL DISTRICT CHAPMAN WTP UV UPGRADE

ISSUED FOR TENDER  
MARCH 28, 2024

Stantec Project Number: 111700729



DRAWING LIST	
GENERAL	
G-000	COVER SHEET AND DRAWING LIST
G-100	SITE LAYOUT
ARCHITECTURAL	
A-001	BUILDING FLOOR PLAN
PROCESS	
P-001	STANDARD DETAILS
P-100	PROCESS & INSTRUMENTATION
P-101	PLANS AND ISOMETRIC
P-102	SECTIONS
PD-100	PROCESS & INSTRUMENTATION - DEMOLITION
PD-101	PLAN, SECTION & ISOMETRIC - DEMOLITION
STRUCTURAL	
S-100	GENERAL NOTES
S-101	NEW PLATFORM LAYOUT
S-102	SECTIONS AND DETAILS
S-103	DETAILS - SHEET 1
S-104	DETAILS - SHEET 2
ELECTRICAL	
E-021	ELECTRICAL STANDARD DETAILS
E-101	ELECTRICAL MAIN FLOOR - POWER PLAN
E-102	ELECTRICAL MEZZANINE - POWER PLAN
E-103	ELECTRICAL PANEL SCHEDULE
E-601	ELECTRICAL SINGLE LINE DIAGRAM
E-602	ELECTRICAL CONTROL SYSTEM NETWORK AND LEGEND
ED-101	ELECTRICAL MAIN FLOOR - POWER PLAN DEMOLITION
ED-601	ELECTRICAL SINGLE LINE DIAGRAM DEMOLITION
ED-602	ELECTRICAL CONTROL SYSTEM NETWORK AND LEGEND - DEMOLITION

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.  
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

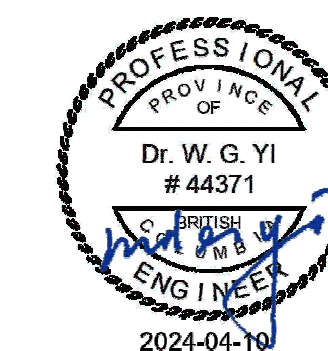
Consultant

---

Notes[illegible]

File Name: N/A	CRT	CGL	MY	2023.10.2
	Dwn.	Dsgn.	Chkd.	YYYY.MM.JJ

## Permit/Seal



Client/Project Logo

Client/Project  
SUNSHINE COAST REGIONAL DISTRICT

CHAPMAN WTP UV UPGRADE

Title  
SITE LAYOUT

Project No. 111700729	Scale 1 : 200
Revision	Drawing No. <b>C 100</b>

**G-100**



## SITE LAYOUT

SCALE: 1 : 200





NOT IN SCOPE

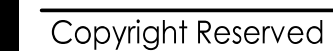


**B**

A

SCALE: 1 : 75

ORIGINAL SHEET - ANSI D



Consultant

## Notes

Permit/Seal

CHAPMAN WTP UV UPGRADE

Revision \_\_\_\_\_ Drawing No. **A 001**

**A-001**

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden. The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

---

Notes

[illegible]

Issued/Revision	By	Appd	YYYY.MM.DD
-----------------	----	------	------------

File Name: N/A	CRT	CGL	MY	2024.03.2
	Dwn	Dsn	Chkd	YYYY MM

Client/Project Logo

CHAPMAN WTP UV UPGRADE

Project No. 111700729	Scale NTS
Revision	Drawing No. <b>B-001</b>

Revision \_\_\_\_\_ Drawing No. **P-001**



1. PROVIDE AIR BLEED ASSEMBLY ON TOP OF THE PROCESS PIPE PER LOCATIONS SHOWN ON DRAWINGS.
2. PROVIDE SAMPLING ASSEMBLY ON SPRINGLINE OF THE PROCESS PIPE PER LOCATION SHOWN ON DRAWINGS.
3. PROVIDE DRAIN CONNECTION ASSEMBLY AT BOTTOM OF THE PROCESS PIPE PER LOCATIONS SHOWN ON DRAWINGS.

SCALE: NTS



1. PROVIDE AIR VALVE ASSEMBLY, PIPE SUPPORT AND ALL APPURTENANCES ON TOP OF THE PROCESS PIPE PER LOCATIONS SHOWN ON DRAWINGS.

## SCALE: NTS



Copyright Reserved

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.  
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

Consultant

Notes

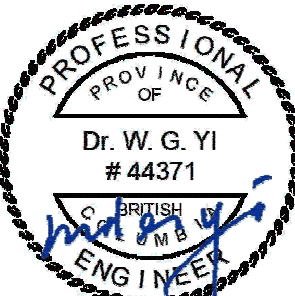
- SEE VENDOR P&ID FOR DETAILED UV REACTOR INSTRUMENTATION DETAILS.
- USE SS316 PIPING PROJECT-WIDE.

6 ISSUED FOR TENDER	CGL	MY	2024.03.28
5 ISSUED FOR BUILDING PERMIT	CGL	MY	2024.03.28
4 ISSUED FOR HEALTH PERMIT	CGL	MY	2024.03.27
3 ISSUED FOR 95% DESIGN	CGL	MY	2023.01.19
2 ISSUED FOR 90% DESIGN	CGL	MY	2023.10.20
1 ISSUED FOR 50% DESIGN	PA	TVW	2022.08.12

Issued/Revision By Appd YYYY-MM-DD

File Name: N/A	CRT	CGL	MY	2023.10.20
	Dwn.	Dsgn.	Chkd.	YYYY-MM-DD

Permit/Seal



Stantec Permit #1002862

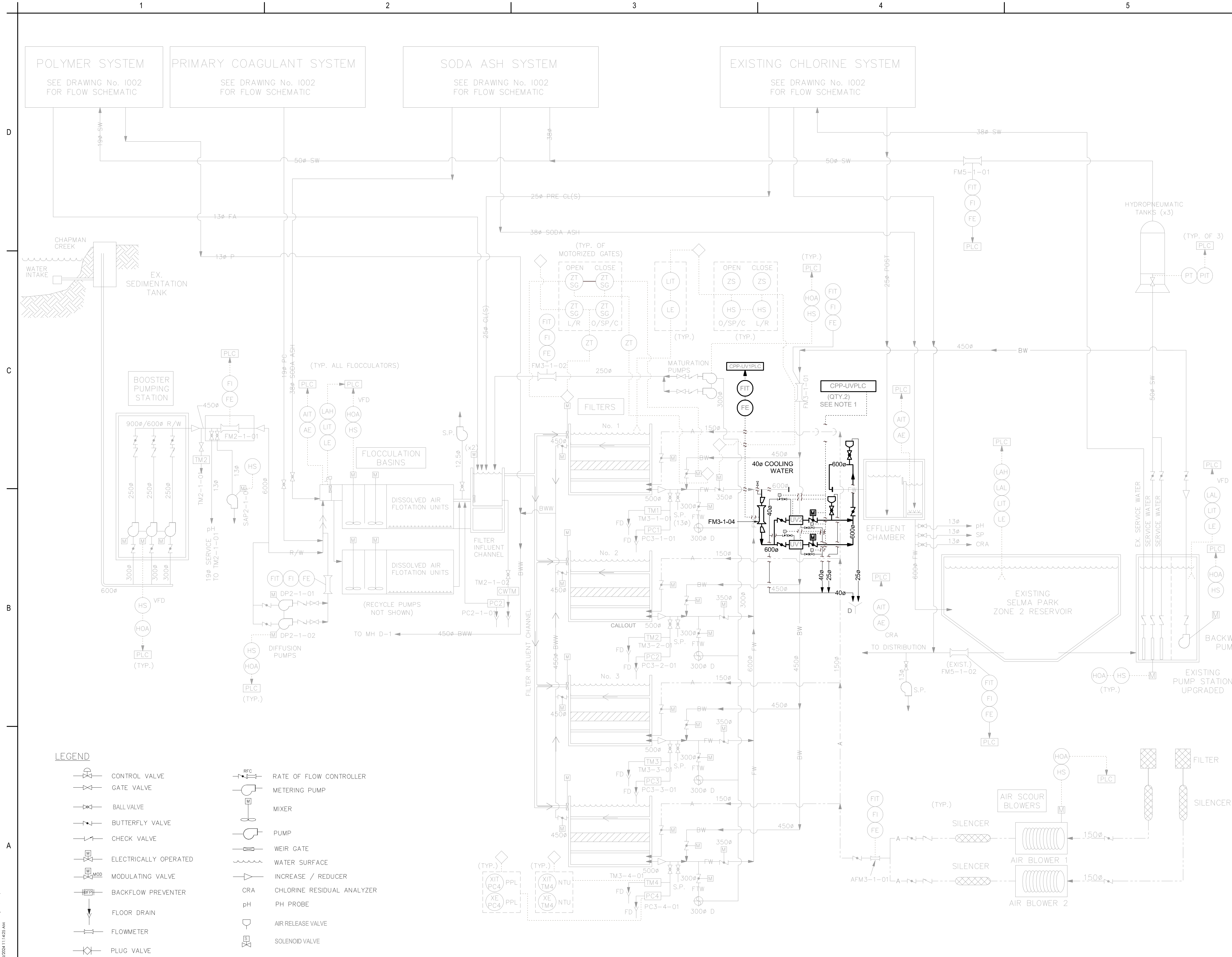
Client/Project Logo

Client/Project  
SUNSHINE COAST REGIONAL DISTRICT

CHAPMAN WTP UV UPGRADE

Title  
PROCESS & INSTRUMENTATION

Project No. 111700729 Scale N.T.S.  
Revision Drawing No. **P-100**





Copyright Reserved

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.  
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

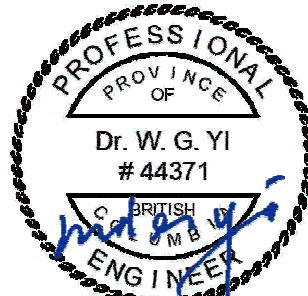
Consultant

Notes

7 ISSUED FOR TENDER	CGL	MY	2024.03.28
6 ISSUED FOR BUILDING PERMIT	CGL	MY	2024.03.28
5 ISSUED FOR HEALTH PERMIT	CGL	MY	2024.03.27
4 ISSUED FOR 95% DESIGN	CGL	MY	2024.01.19
3 ISSUED FOR UV PROCUREMENT RFP	CGL	MY	2024.01.18
2 ISSUED FOR 90% DESIGN	CGL	MY	2023.10.20
1 ISSUED FOR 50% DESIGN	PA	TVW	2022.08.12

Issued/Revision	By	Appd	YYYY.MM.DD
File Name: N/A	CRT	CGL	MY
	Dwn.	Desn.	Chkd.
			2023.10.20
			YYYY.MM.DD

Permit/Seal



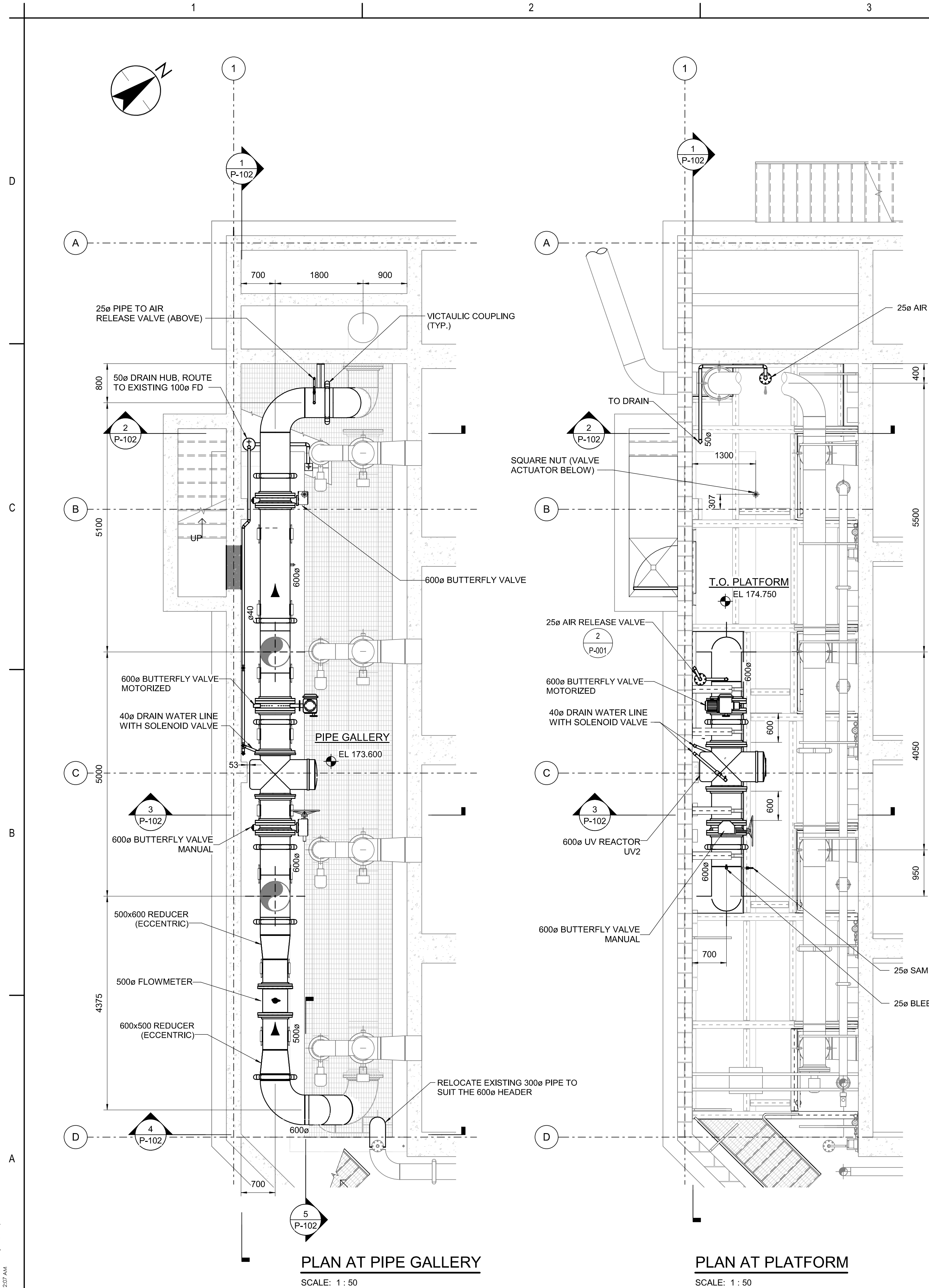
2024-04-10  
Stantec Permit #1002862

Client/Project Logo

Client/Project  
SUNSHINE COAST REGIONAL DISTRICT  
  
CHAPMAN WTP UV UPGRADE

Title  
PLANS AND ISOMETRIC

Project No.	Scale
111700729	1 : 50
Revision	Drawing No.
	<b>P-101</b>





Copyright Reserved

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.  
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

Consultant

Notes

7 ISSUED FOR TENDER	CGL	MY	2024.03.28
6 ISSUED FOR BUILDING PERMIT	CGL	MY	2024.03.28
5 ISSUED FOR HEALTH PERMIT	CGL	MY	2024.03.27
4 ISSUED FOR 95% DESIGN	CGL	MY	2024.01.19
3 ISSUED FOR UV PROCUREMENT RFP	CGL	MY	2024.01.18
2 ISSUED FOR 90% DESIGN	CGL	MY	2023.10.20
1 ISSUED FOR 50% DESIGN	PA	TVW	2022.08.12

Issued/Revision By Appd YYYY-MM-DD

File Name: N/A	CRT	CGL	MY	2023.10.20
	Dwn.	Dsgn.	Chkd.	YYYY-MM-DD

Permit/Seal



2024-04-10  
Stantec Permit #1002862

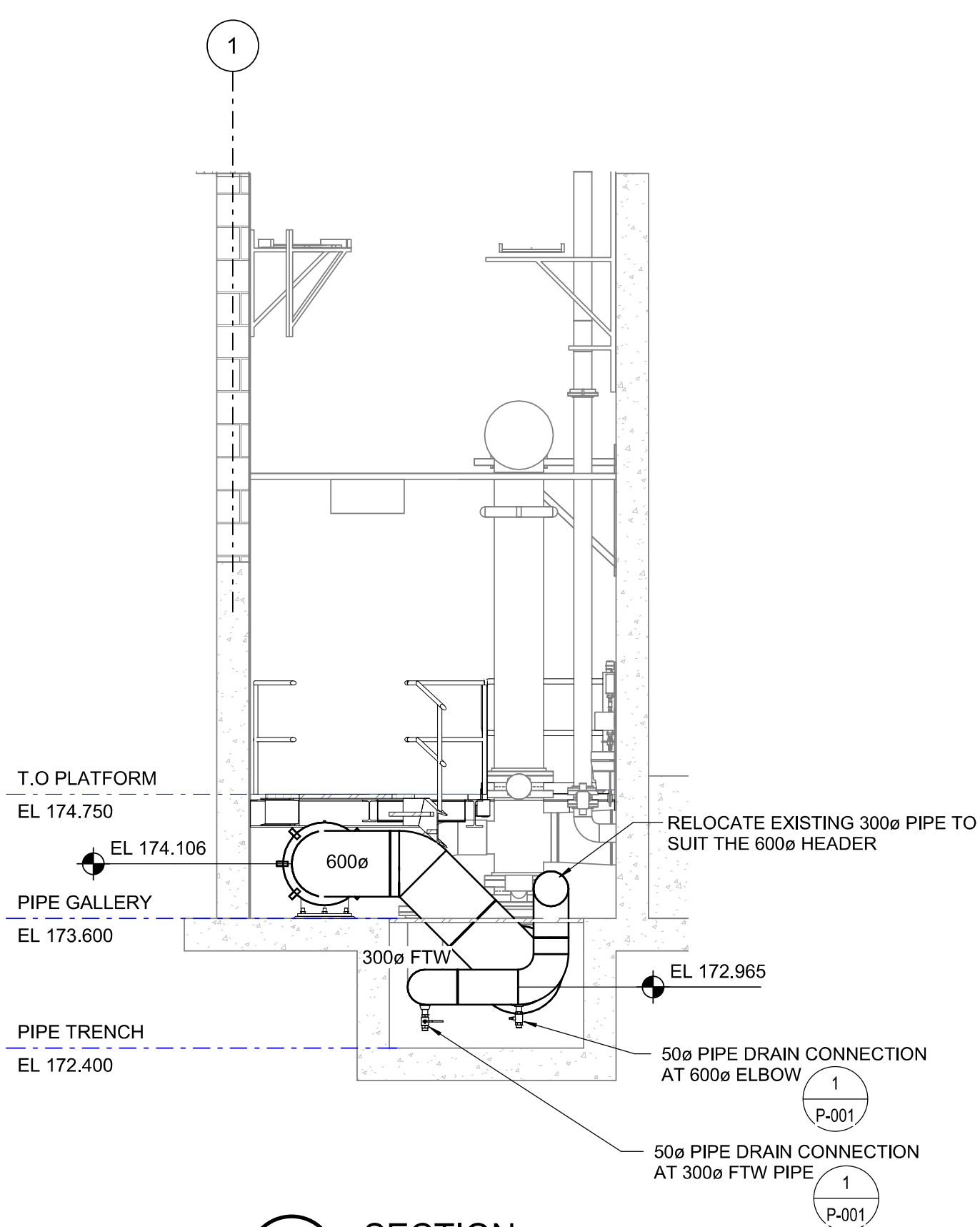
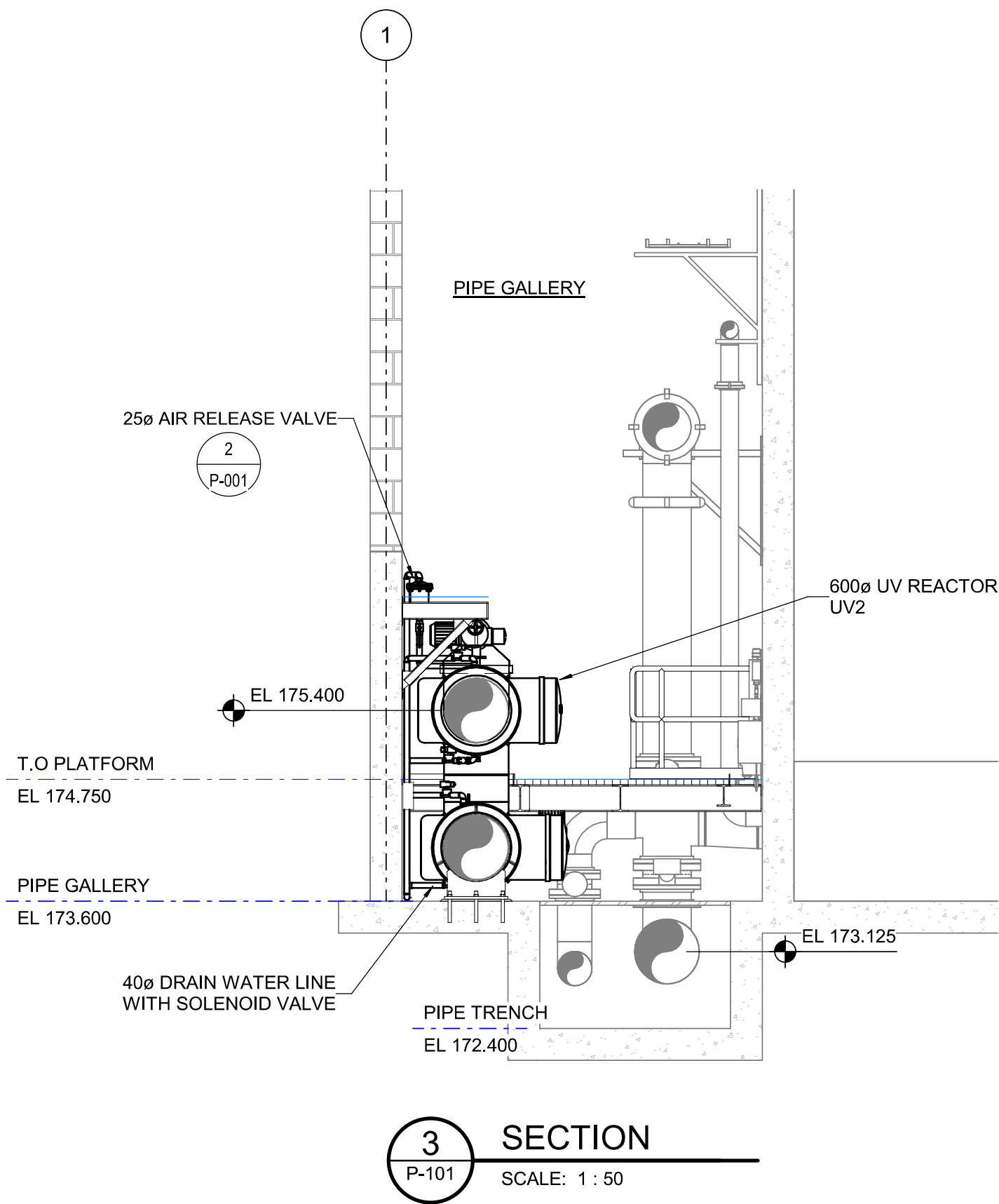
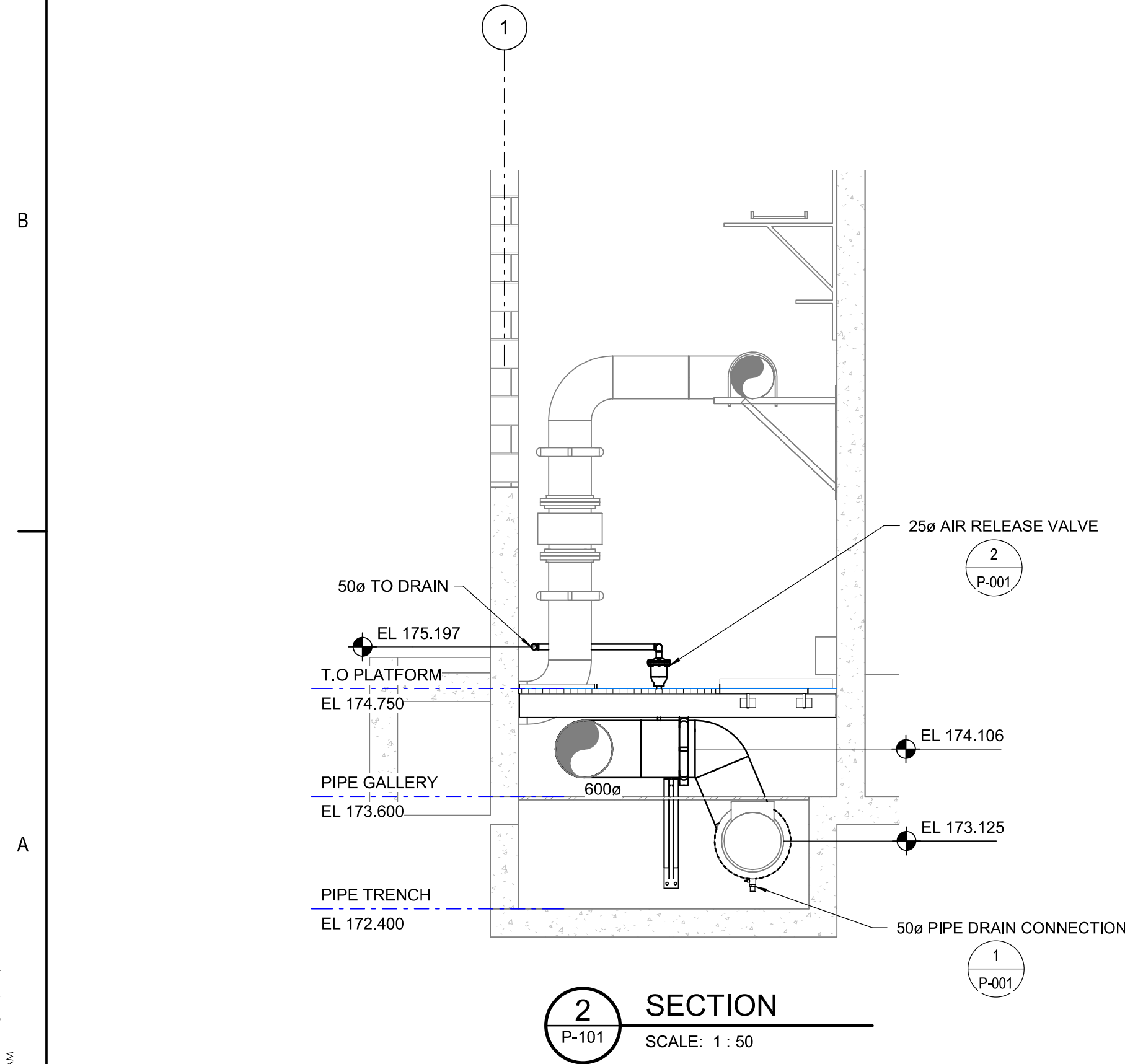
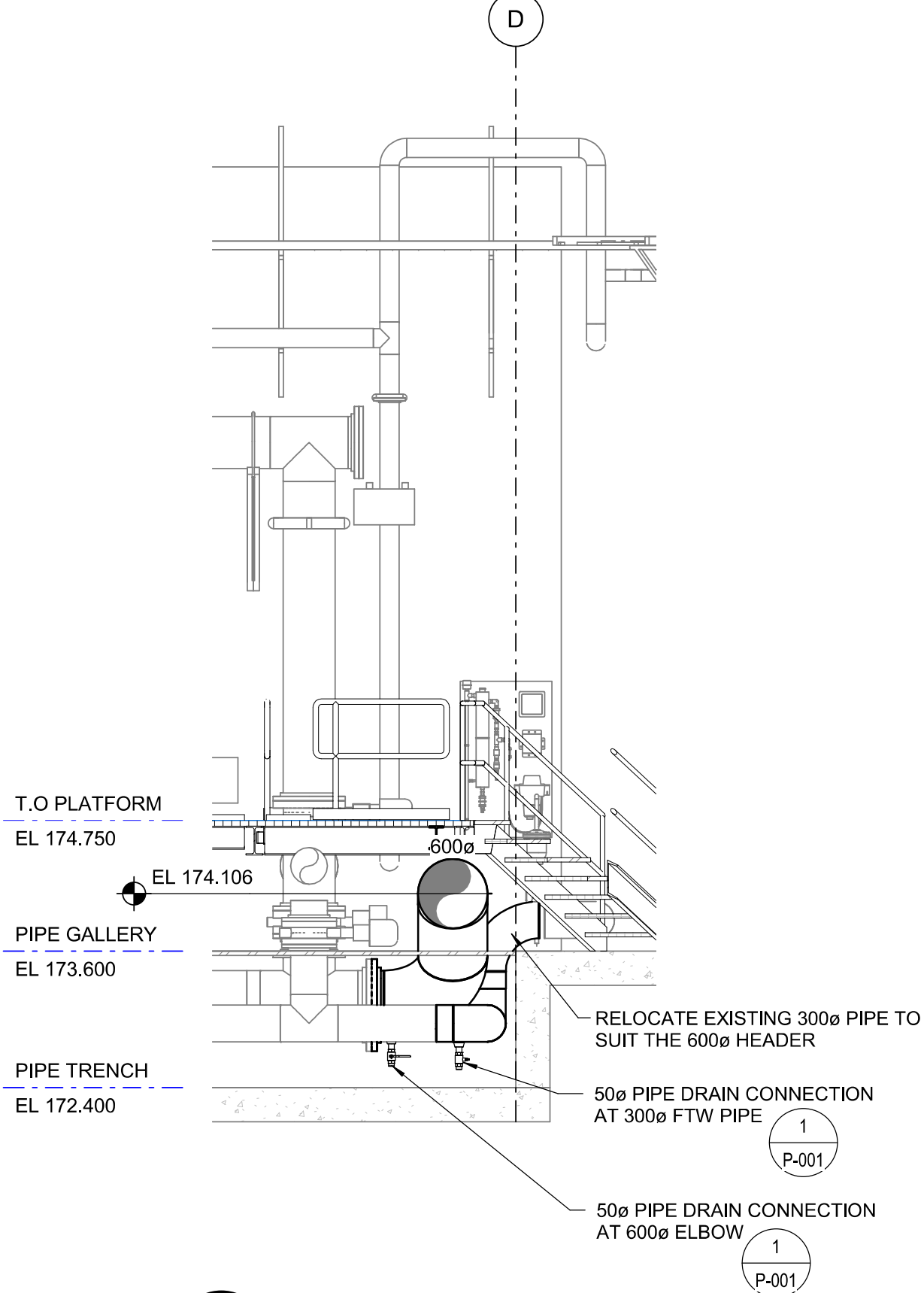
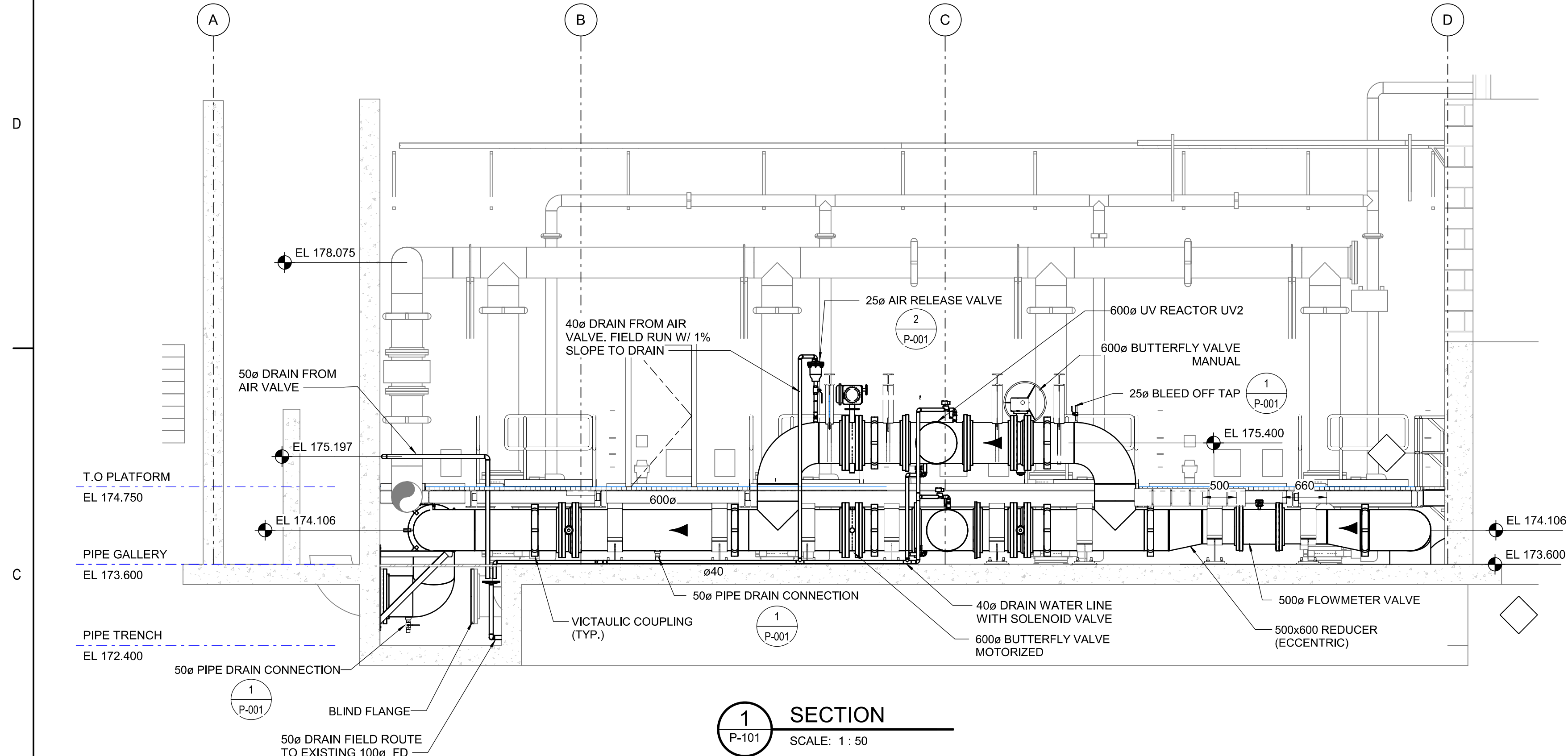
Client/Project Logo

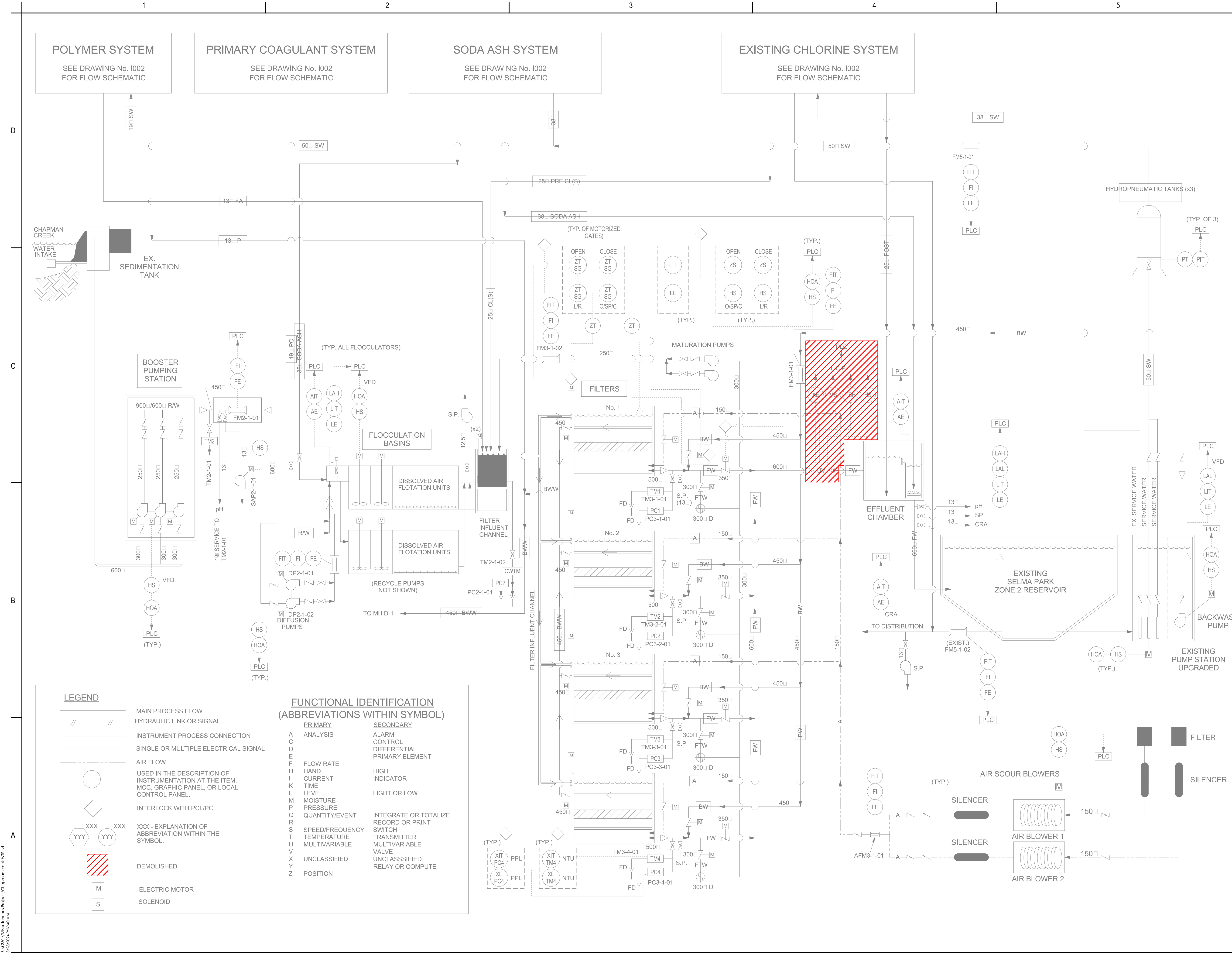
Client/Project  
SUNSHINE COAST REGIONAL DISTRICT

CHAPMAN WTP UV UPGRADE

Title  
SECTIONS

Project No. 111700729	Scale 1 : 50
Revision	Drawing No. <b>P-102</b>





Stantec Consulting Ltd.  
500-4515 Central Blvd  
Burnaby, BC V5H 0C6  
Tel: (604) 436-3014 • www.stantec.com

Copyright Reserved

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.  
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

Consultant

Notes

Rev	Description	Date
1	ISSUED FOR TENDER	2024.03.28
2	ISSUED FOR BUILDING PERMIT	2024.03.28
3	ISSUED FOR HEALTH PERMIT	2024.03.27
4	ISSUED FOR 95% DESIGN	2024.01.19
5	ISSUED FOR 90% DESIGN	2023.10.20

Issued/Revision

File Name	CRT	CGL	MY	2023.10.20
N/A				

Permit/Seal

2024-04-10  
Stantec Permit #1002862

Client/Project Logo

Client/Project  
SUNSHINE COAST REGIONAL DISTRICT

CHAPMAN WTP UV UPGRADE

Title  
PROCESS & INSTRUMENTATION -  
DEMOLITION

Project No.	Scale
111700729	N.T.S.

Revision	Drawing No.
	PD-100


Rev: 1001 / 1002 / 1003 / 1004 / 1005 / 1006 / 1007 / 1008 / 1009 / 1010 / 1011 / 1012 / 1013 / 1014 / 1015 / 1016 / 1017 / 1018 / 1019 / 1020 / 1021 / 1022 / 1023 / 1024 / 1025 / 1026 / 1027 / 1028 / 1029 / 1030 / 1031 / 1032 / 1033 / 1034 / 1035 / 1036 / 1037 / 1038 / 1039 / 1040 / 1041 / 1042 / 1043 / 1044 / 1045 / 1046 / 1047 / 1048 / 1049 / 1050 / 1051 / 1052 / 1053 / 1054 / 1055 / 1056 / 1057 / 1058 / 1059 / 1060 / 1061 / 1062 / 1063 / 1064 / 1065 / 1066 / 1067 / 1068 / 1069 / 1070 / 1071 / 1072 / 1073 / 1074 / 1075 / 1076 / 1077 / 1078 / 1079 / 1080 / 1081 / 1082 / 1083 / 1084 / 1085 / 1086 / 1087 / 1088 / 1089 / 1090 / 1091 / 1092 / 1093 / 1094 / 1095 / 1096 / 1097 / 1098 / 1099 / 1100 / 1101 / 1102 / 1103 / 1104 / 1105 / 1106 / 1107 / 1108 / 1109 / 1110 / 1111 / 1112 / 1113 / 1114 / 1115 / 1116 / 1117 / 1118 / 1119 / 1120 / 1121 / 1122 / 1123 / 1124 / 1125 / 1126 / 1127 / 1128 / 1129 / 1130 / 1131 / 1132 / 1133 / 1134 / 1135 / 1136 / 1137 / 1138 / 1139 / 1140 / 1141 / 1142 / 1143 / 1144 / 1145 / 1146 / 1147 / 1148 / 1149 / 1150 / 1151 / 1152 / 1153 / 1154 / 1155 / 1156 / 1157 / 1158 / 1159 / 1160 / 1161 / 1162 / 1163 / 1164 / 1165 / 1166 / 1167 / 1168 / 1169 / 1170 / 1171 / 1172 / 1173 / 1174 / 1175 / 1176 / 1177 / 1178 / 1179 / 1180 / 1181 / 1182 / 1183 / 1184 / 1185 / 1186 / 1187 / 1188 / 1189 / 1190 / 1191 / 1192 / 1193 / 1194 / 1195 / 1196 / 1197 / 1198 / 1199 / 1200 / 1201 / 1202 / 1203 / 1204 / 1205 / 1206 / 1207 / 1208 / 1209 / 1210 / 1211 / 1212 / 1213 / 1214 / 1215 / 1216 / 1217 / 1218 / 1219 / 1220 / 1221 / 1222 / 1223 / 1224 / 1225 / 1226 / 1227 / 1228 / 1229 / 1230 / 1231 / 1232 / 1233 / 1234 / 1235 / 1236 / 1237 / 1238 / 1239 / 1240 / 1241 / 1242 / 1243 / 1244 / 1245 / 1246 / 1247 / 1248 / 1249 / 1250 / 1251 / 1252 / 1253 / 1254 / 1255 / 1256 / 1257 / 1258 / 1259 / 1260 / 1261 / 1262 / 1263 / 1264 / 1265 / 1266 / 1267 / 1268 / 1269 / 1270 / 1271 / 1272 / 1273 / 1274 / 1275 / 1276 / 1277 / 1278 / 1279 / 1280 / 1281 / 1282 / 1283 / 1284 / 1285 / 1286 / 1287 / 1288 / 1289 / 1290 / 1291 / 1292 / 1293 / 1294 / 1295 / 1296 / 1297 / 1298 / 1299 / 1300 / 1301 / 1302 / 1303 / 1304 / 1305 / 1306 / 1307 / 1308 / 1309 / 1310 / 1311 / 1312 / 1313 / 1314 / 1315 / 1316 / 1317 / 1318 / 1319 / 1320 / 1321 / 1322 / 1323 / 1324 / 1325 / 1326 / 1327 / 1328 / 1329 / 1330 / 1331 / 1332 / 1333 / 1334 / 1335 / 1336 / 1337 / 1338 / 1339 / 1340 / 1341 / 1342 / 1343 / 1344 / 1345 / 1346 / 1347 / 1348 / 1349 / 1350 / 1351 / 1352 / 1353 / 1354 / 1355 / 1356 / 1357 / 1358 / 1359 / 1360 / 1361 / 1362 / 1363 / 1364 / 1365 / 1366 / 1367 / 1368 / 1369 / 1370 / 1371 / 1372 / 1373 / 1374 / 1375 / 1376 / 1377 / 1378 / 1379 / 1380 / 1381 / 1382 / 1383 / 1384 / 1385 / 1386 / 1387 / 1388 / 1389 / 1390 / 1391 / 1392 / 1393 / 1394 / 1395 / 1396 / 1397 / 1398 / 1399 / 1400 / 1401 / 1402 / 1403 / 1404 / 1405 / 1406 / 1407 / 1408 / 1409 / 1410 / 1411 / 1412 / 1413 / 1414 / 1415 / 1416 / 1417 / 1418 / 1419 / 1420 / 1421 / 1422 / 1423 / 1424 / 1425 / 1426 / 1427 / 1428 / 1429 / 1430 / 1431 / 1432 / 1433 / 1434 / 1435 / 1436 / 1437 / 1438 / 1439 / 1440 / 1441 / 1442 / 1443 / 1444 / 1445 / 1446 / 1447 / 1448 / 1449 / 1450 / 1451 / 1452 / 1453 / 1454 / 1455 / 1456 / 1457 / 1458 / 1459 / 1460 / 1461 / 1462 / 1463 / 1464 / 1465 / 1466 / 1467 / 1468 / 1469 / 1470 / 1471 / 1472 / 1473 / 1474 / 1475 / 1476 / 1477 / 1478 / 1479 / 1480 / 1481 / 1482 / 1483 / 1484 / 1485 / 1486 / 1487 / 1488 / 1489 / 1490 / 1491 / 1492 / 1493 / 1494 / 1495 / 1496 / 1497 / 1498 / 1499 / 1500 / 1501 / 1502 / 1503 / 1504 / 1505 / 1506 / 1507 / 1508 / 1509 / 1510 / 1511 / 1512 / 1513 / 1514 / 1515 / 1516 / 1517 / 1518 / 1519 / 1520 / 1521 / 1522 / 1523 / 1524 / 1525 / 1526 / 1527 / 1528 / 1529 / 1530 / 1531 / 1532 / 1533 / 1534 / 1535 / 1536 / 1537 / 1538 / 1539 / 1540 / 1541 / 1542 / 1543 / 1544 / 1545 / 1546 / 1547 / 1548 / 1549 / 1550 / 1551 / 1552 / 1553 / 1554 / 1555 / 1556 / 1557 / 1558 / 1559 / 1560 / 1561 / 1562 / 1563 / 1564 / 1565 / 1566 / 1567 / 1568 / 1569 / 1570 / 1571 / 1572 / 1573 / 1574 / 1575 / 1576 / 1577 / 1578 / 1579 / 1580 / 1581 / 1582 / 1583 / 1584 / 1585 / 1586 / 1587 / 1588 / 1589 / 1590 / 1591 / 1592 / 1593 / 1594 / 1595 / 1596 / 1597 / 1598 / 1599 / 1600 / 1601 / 1602 / 1603 / 1604 / 1605 / 1606 / 1607 / 1608 / 1609 / 1610 / 1611 / 1612 / 1613 / 1614 / 1615 / 1616 / 1617 / 1618 / 1619 / 1620 / 1621 / 1622 / 1623 / 1624 / 1625 / 1626 / 1627 / 1628 / 1629 / 1630 / 1631 / 1632 / 1633 / 1634 / 1635 / 1636 / 1637 / 1638 / 1639 / 1640 / 1641 / 1642 / 1643 / 1644 / 1645 / 1646 / 1647 / 1648 / 1649 / 1650 / 1651 / 1652 / 1653 / 1654 / 1655 / 1656 / 1657 / 1658 / 1659 / 1660 / 1661 / 1662 / 1663 / 1664 / 1665 / 1666 / 1667 / 1668 / 1669 / 1670 / 1671 / 1672 / 1673 / 1674 / 1675 / 1676 / 1677 / 1678 / 1679 / 1680 / 1681 / 1682 / 1683 / 1684 / 1685 / 1686 / 1687 / 1688 / 1689 / 1690 / 1691 / 1692 / 1693 / 1694 / 1695 / 1696 / 1697 / 1698 / 1699 / 1700 / 1701 / 1702 / 1703 / 1704 / 1705 / 1706 / 1707 / 1708 / 1709 / 1710 / 1711 / 1712 / 1713 / 1714 / 1715 / 1716 / 1717 / 1718 / 1719 / 1720 / 1721 / 1722 / 1723 / 1724 / 1725 / 1726 / 1727 / 1728 / 1729 / 1730 / 1731 / 1732 / 1733 / 1734 / 1735 / 1736 / 1737 / 1738 / 1739 / 1740 / 1741 / 1742 / 1743 / 1744 / 1745 / 1746 / 1747 / 1748 / 1749 / 1750 / 1751 / 1752 / 1753 / 1754 / 1755 / 1756 / 1757 / 1758 / 1759 / 1760 / 1761 / 1762 / 1763 / 1764 / 1765 / 1766 / 1767 / 1768 / 1769 / 1770 / 1771 / 1772 / 1773 / 1774 / 1775 / 1776 / 1777 / 1778 / 1779 / 1780 / 1781 / 1782 / 1783 / 1784 / 1785 / 1786 / 1787 / 1788 / 1789 / 1790 / 1791 / 1792 / 1793 / 1794 / 1795 / 1796 / 1797 / 1798 / 1799 / 1800 / 1801 / 1802 / 1803 / 1804 / 1805 / 1806 / 1807 / 1808 / 1809 / 1810 / 1811 / 1812 / 1813 / 1814 / 1815 / 1816 / 1817 / 1818 / 1819 / 1820 / 1821 / 1822 / 1823 / 1824 / 1825 / 1826 / 1827 / 1828 / 1829 / 1830 / 1831 / 1832 / 1833 / 1834 / 1835 / 1836 / 1837 / 1838 / 1839 / 1840 / 1841 / 1842 / 1843 / 1844 / 1845 / 1846 / 1847 / 1848 / 1849 / 1850 / 1851 / 1852 / 1853 / 1854 / 1855 / 1856 / 1857 / 1858 / 1859 / 1860 / 1861 / 1862 / 1863 / 1864 / 1865 / 1866 / 1867 / 1868 / 1869 / 1870 / 1871 / 1872 / 1873 / 1874 / 1875 / 1876 / 1877 / 1878 / 1879 / 1880 / 1881 / 1882 / 1883 / 1884 / 1885 / 1886 / 1887 / 1888 / 1889 / 1890 / 1891 / 1892 / 1893 / 1894 / 1895 / 1896 / 1897 / 1898 / 1899 / 1900 / 1901 / 1902 / 1903 / 1904 / 1905 / 1906 / 1907 / 1908 / 1909 / 1910 / 1911 / 1912 / 1913 / 1914 / 1915 / 1916 / 1917 / 1918 / 1919 / 1920 / 1921 / 1922 / 1923 / 1924 / 1925 / 1926 / 1927 / 1928 / 1929 / 1930 / 1931 / 1932 / 1933 / 1934 / 1935 / 1936 / 1937 / 1938 / 1939 / 1940 / 1941 / 1942 / 1943 / 1944 / 1945 / 1946 / 1947 / 1948 / 1949 / 1950 / 1951 / 1952 / 1953 / 1954 / 1955 / 1956 / 1957 / 1958 / 1959 / 1960 / 1961 / 1962 / 1963 / 1964 / 1965 / 1966 / 1967 / 1968 / 1969 / 1970 / 1971 / 1972 / 1973 / 1974 / 1975 / 1976 / 1977 / 1978 / 1979 / 1980 / 1981 / 1982 / 1983 / 1984 / 1985 / 1986 / 1987 / 1988 / 1989 / 1990 / 1991 / 1992 / 1993 / 1994 / 1995 / 1996 / 1997 / 1998 / 1999 / 2000 / 2001 / 2002 / 2003 / 2004 / 2005 / 2006 / 2007 / 2008 / 2009 / 2010 / 2011 / 2012 / 2013 / 2014 / 2015 / 2016 / 2017 / 2018 / 2019 / 2020 / 2021 / 2022 / 2023 / 2024 / 2025 / 2026 / 2027 / 2028 / 2029 / 2030 / 2031 / 2032 / 2033 / 2034 / 2035 / 2036 / 2037 / 2038 / 2039 / 2040 / 2041 / 2042 / 2043 / 2044 / 2045 / 2046 / 2047 / 2048 / 2049 / 2050 / 2051 / 2052 / 2053 / 2054 / 2055 / 2056 / 2057 / 2058 / 2059 / 2060 / 2061 / 2062 / 2063 / 2064 / 2065 / 2066 / 2067 / 2068 / 2069 / 2070 / 2071 / 2072 / 2073 / 2074 / 2075 / 2076 / 2077 / 2078 / 2079 / 2080 / 2081 / 2082 / 2083 / 2084 / 2085 / 2086 / 2087 / 2088 / 2089 / 2090 / 2091 / 2092 / 2093 / 2094 / 2095 / 2096 / 2097 / 2098 / 2099 / 2100 / 2101 / 2102 / 2103 / 2104 / 2105 / 2106 / 2107 / 2108 / 2109 / 2110 / 2111 / 2112 / 2113 / 2114 / 2115 / 2116 / 2117 / 2118 / 2119 / 2120 / 2121 / 2122 / 2123 / 2124 / 2125 / 2126 / 2127 / 2128 / 2129 / 2130 / 2131 / 2132 / 2133 / 2134 / 2135 / 2136 / 2137 / 2138 / 2139 / 2140 / 2141 / 2142 / 2143 / 2144 / 2145 / 2146 / 2147 / 2148 / 2149 / 2150 / 2151 / 2152 / 2153 / 2154 / 2155 / 2156 / 2157 / 2158 / 2159 / 2160 / 2161 / 2162 / 2163 / 2164 / 2165 / 2166 / 2167 / 2168 / 2169 / 2170 / 2171 / 2172 / 2173 / 2174 / 2175 / 2176 / 2177 / 2178 / 2179 / 2180 / 2181 / 2182 / 2183 / 2184 / 2185 / 2186 / 2187 / 2188 / 2189 / 2190 / 2191 / 2192 / 2193 / 2194 / 2195 / 2196 / 2197 / 2198 / 2199 / 2200 / 2201 / 2202 / 2203 / 2204 / 2205 / 2206 / 2207 / 2208 / 2209 / 2210 / 2211 / 2212 / 2213 / 2214 / 2215 / 2216 / 2217 / 2218 / 2219 / 2220 / 2221 / 2222 / 2223 / 2224 / 2225 / 2226 / 2227 / 2228 / 2229 / 2230 / 2231 / 2232 / 2233 / 2234 / 2235 / 2236 / 2237 / 2238 / 2239 / 2240 / 2241 / 2242 / 2243 / 2244 / 2245 / 2246 / 2247 / 2248 / 2249 / 2250 / 2251 / 2252 / 2253 / 2254 / 2255 / 2256 / 2257 / 2258 / 2259 / 2260 / 2261 / 2262 / 2263 / 2264 / 2265 / 2266 / 2267 / 2268 / 2269 / 2270 / 2271 / 2272 / 2273 / 2274 / 2275 / 2276 / 2277 / 2278 / 2279 / 2280 / 2281 / 2282 / 2283 / 2284 / 2285 / 2286 / 2287 / 2288 / 2289 / 2290 / 2291 / 2292 / 2293 / 2294 / 2295 / 2296 / 2297 / 2298 / 2299 / 2300 / 2301 / 2302 / 2303 / 2304 / 2305 / 2306 / 2307 / 2308 / 2309 / 2310 / 2311 / 2312 / 2313 / 2314 / 2315 / 2316 / 2317 / 2318 / 2319 / 2320 / 2321 / 2322 / 2323 / 2324 / 2325 / 2326 / 2327 / 2328 / 2329 / 2330 / 2331 / 2332 / 2333 / 2334 / 2335 / 2336 / 2337 / 2338 / 2339 / 2340 / 2341 / 2342 / 2343 / 2344 / 2345 / 2346 / 2347 / 2348 / 2349 / 2350 / 2351 / 2352 / 2353 / 2354 / 2355 / 2356 / 2357 / 2358 / 2359 / 2360 / 2361 / 2362 / 2363 / 2364 / 2365 / 2366 / 2367 / 2368 / 2369 / 2370 / 2371 / 2372 / 2373 / 2374 / 2375 / 2376 / 2377 / 2378 / 2379 / 2380 / 2381 / 2382 / 2383 / 2384 / 2385 / 2386 / 2387 / 2388 / 2389 / 2390 / 2391 / 2392 / 2393 / 2394 / 2395 / 2396 / 2397 / 2398 / 2399 / 2400 / 2401 / 2402 / 2403 / 2404 / 2405 / 2406 / 2407 / 2408 / 2409 / 2410 / 2411 / 2412 / 2413 / 2414 / 2415 / 2416 / 2417 / 2418 / 2419 / 2420 / 2421 / 2422 / 2423 / 2424 / 2425 / 2426 / 2427 / 2428 / 2429 / 2430 / 2431 / 2432 / 2433 / 2434 / 2435 / 2436 / 2437 / 2438 / 2439 / 2440 / 2441 / 2442 / 2443 / 2444 / 2445 / 2446 / 2447 / 2448 / 2449 / 2450 / 2451 / 2452 / 2453 / 2454 / 2455 / 2456 / 2457 / 2458 / 2459 / 2460 / 2461 / 2462 / 2463 / 2464 / 2465 / 2466 / 2467 / 2468 / 2469 / 2470 / 2471 / 2472 / 2473 / 2474 / 2475 / 2476 / 2477 / 2478 / 2479 / 2480 / 2481 / 2482 / 2483 / 2484 / 2485 / 2486 / 2487 / 2488 / 2489 / 2490 / 2491 / 2492 / 2493 / 2494 / 2495 / 2496 / 2497 / 2498 / 2499 / 2500 / 2501 / 2502 / 2503 / 2504 / 2505 / 2506 / 2507 / 2508 / 2509 / 2510 / 2511 / 2512 / 2513 / 2514 / 2515 / 2516 / 2517 / 2518 / 2519 / 2520 / 2521 / 2522 / 2523 / 2524 / 2525 / 2526 / 2527 / 2528 / 2529 / 2530 / 2531 / 2532 / 2533 / 2534 / 2535 / 2536 / 2537 / 2538 / 2539 / 2540 / 2541 / 2542 / 2543 / 2544 / 2545 / 2546 / 2547 / 2548 / 2549 / 2550 / 2551 / 2552 / 2553 / 2554 / 2555 / 2556 / 2557 / 2558 / 2559 / 2560 / 2561 / 2562 / 2563 / 2564 / 2565 / 2566 / 2567 / 2568 / 2569 / 2570 / 2571 / 2572 / 2573 / 2574 / 2575 / 2576 / 2577 / 2578 / 2579 / 2580 / 2581 / 2582 / 2583 / 2584 / 2585 / 2586 / 2587 / 2588 / 2589 / 2590 / 2591 / 2592 / 2593 / 2594 / 2595 / 2596 / 2597 / 2598 / 2599 / 2600 / 2601 / 2602 / 2603 / 2604 / 2605 / 2606 / 2607 / 2608 / 2609 / 2610 / 2611 / 2612 / 2613 / 2614 / 2615 / 2616 / 2617 / 2618 / 2619 / 2620 / 2621 / 2622 / 2623 / 2624 / 2625 / 2626 / 2627 / 2628 / 2629 / 2630 / 2631 / 2632 / 2633 / 2634 / 2635 / 2636 / 2637 / 2638 / 2639 / 2640 / 2641 / 2642 / 2643 / 2644 / 2645 / 2646 / 2647 / 2648 / 2649 / 2650 / 2651 / 2652 / 2653 / 2654 / 2655 / 2656 / 2657 / 2658 / 2659 / 2660 / 2661 / 2662 / 2663 / 2664 / 2665 / 2666 / 2667 / 2668 / 2669 / 2670 / 2671 / 2672 / 2673 / 2674 / 2675 / 2676 / 2677 / 2678 / 2679 / 2680 / 2681 / 2682 / 2683 / 2684 / 2685 / 2686 / 2687 / 2688 / 2689 / 2690 / 2691 / 2692 / 2693 / 2694 / 2695 / 2696 / 2697 / 2698 / 2699 / 2700 / 2701 / 2702 / 2703 / 2704 / 2705 / 2706 / 2707 / 2708 / 2709 / 2710 / 2711 / 2712 / 2713 / 2714 / 2715 / 2716 / 2717 / 2718 / 2719 / 2720 / 2721 / 2722 / 2723 / 2724 / 2725 / 2726 / 2727 / 2728 / 2729 / 2730 /



The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden. The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

---

Notes

[illegible]

PROFESSIONAL  
ENGINEER  
OF  
BRITISH COLUMBIA  
Dr. W. G. Yi  
# 44371

2024-04-10  
Stantec Permit #1002862

---

Client/Project Logo

Client/Project  
SUNSHINE COAST REGIONAL DISTRICT

CHAPMAN WTP UV UPGRADE

Title  
PLAN, SECTION & ISOMETRIC -  
DEMOLITION

Project No. 111700729	Scale 1 : 50
Revision	Drawing No. <b>BD 101</b>





**GENERAL**

1. ALL CODES REFERENCED ARE TO BE THE LATEST VERSION AT THE DATE OF ISSUE.
2. DESIGN IS BASED ON THE BRITISH COLOMBIA BUILDING CODE 2018. THIS IS A POST DISASTER STRUCTURE AS PER THE SITE INFORMATION TABLE ON THIS DRAWING.
3. REVIEW THIS DESIGN AND IN CONSULTATION WITH THE CONTRACT SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS OBTAIN THE ENGINEER'S APPROVAL BEFORE CUTTING, BORING, OR SLEEVENING LOAD-BEARING MEMBERS UNLESS NOTED OTHERWISE.
4. THE STRUCTURAL DRAWINGS ARE FOR THE COMPLETED PROJECT. STABILITY OF THE NEW STRUCTURE DURING CONSTRUCTION REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.
5. REFER TO CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SMALL OPENINGS, SLEEVES, RECESSES, DEPRESSIONS, SUMPS, TRENCHES, CURBS, HOUSEKEEPING PADS, EQUIPMENT BASES, AND SLOPES NOT INDICATED ON THE STRUCTURAL DRAWINGS.
6. OPENINGS AND SLEEVES INDICATED ON THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. COORDINATE ALL OPENING LOCATIONS AND DIMENSIONS WITH THE APPROPRIATE CONSULTANT AND THE SUB-CONTRACTOR PRIOR TO CONSTRUCTION.
7. REVIEW ALL DRAWINGS AND CHECK DIMENSIONS PRIOR TO IMPLEMENTING THE WORK. REPORT ANY DISCREPANCIES TO THE CONSULTANT FOR CLARIFICATION BEFORE PROCEEDING.
8. COORDINATE PLACEMENT AND LOCATION OF ITEMS BY SUBSEQUENT TRADES. RELEVANT TRADES SHALL REVIEW PRIOR TO ERECTION AND/OR INSTALLATION.
9. NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS PRIOR TO ANY REQUIRED SITE REVIEWS.
10. CRANE BEAM, HOIST CONSTRUCTION, ERECTION, TESTING AND INSPECTION PER THE REQUIREMENTS OF WORK SAFE BC.

1. NOTIFY ENGINEER OF ANY STRUCTURES OR SERVICES NOT SHOWN ON THE STRUCTURAL DRAWINGS.

1. UNLESS NOTED OTHERWISE, THE LOADS NOTED IN TABLES AND ON DRAWINGS ARE UNFACTORED.
2. CLIMATIC INFORMATION REFER TO CLIMATIC INFORMATION TABLE
3. SITE INFORMATION REFER TO SITE INFORMATION TABLE
4. DESIGN LOADS REFER TO DESIGN LOADS TABLE
5. LATERAL LOADS
  - a. CLIMATIC INFORMATION REFER TO CLIMATIC INFORMATION TABLE SHEAR WALLS.
  - b. SEE FORCE MODIFICATION FACTORS TABLE
6. CHARGED LOADS SHALL NOT EXCEED THE LOADS NOTED ON THE DRAWINGS.
7. RAIN PONDING LOADS HAVE BEEN CALCULATED BASED ON ROOF SLOPES, PARAPETS AND SCUPPERS ASSUMING THAT DRAINS ARE ACCIDENTALLY PLUGGED FOR A PERIOD OF 24 HOURS.

1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-S16 AND THE CISC CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL.
2. STEEL TO BE FABRICATED AND ERECTED BY A SHOP CERTIFIED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA-W47.1, DIVISION 1 OR 2.1 ONLY.
3. SUBMIT SHOP DRAWINGS SHOWING ALL STRUCTURAL STEEL MEMBERS FOR REVIEW PRIOR TO FABRICATION. WELDING TO CONFORM TO CSA-S16.
4. WELDING TO REINFORCEMENT STEEL ONLY BY A SHOP CERTIFIED TO CSA-W186 WITH REINFORCEMENT CONFORMING TO CSA-G30.18, GRADE 400W.
5. SHOP GALVANIZING TO CONFORM TO CAN/CSA-G164.
6. ALL EXPOSED WELDS TO BE CONTINUOUS. GRIND ALL EXPOSED WELDS SMOOTH, INCLUDING PAINTED STEEL.
7. SUPPLY STEEL WITH PROPERTIES NOTED IN STEEL GRADES TABLE.
8. PROVIDED A MINIMUM OF 2 BOLTS IN BOLTED CONNECTIONS.
9. ALL BOLTED CONNECTIONS TO USE SNUG-TIGHTENED HIGH-STRENGTH BOLTS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
10. DO NOT NOTICE OF MATERIAL WITHIN THE WRITTEN APPROVAL OF THE ENGINEER. WHERE GRANTED, A COMPLETE NON-DESTRUCTIVE EXAMINATION IS MANDATORY AND WAITED FOR BY THE SUB-CONTRACTOR.
11. ALL GROUT UNDER BEARING PLATES AND BASE PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 50 MPa, INSTALLED IN ACCORDANCE WITH THE SPECIFICATION AND MANUFACTURER'S RECOMMENDATIONS. PROVIDE GROUT WEEP HOLES IN COLUMN BASE PLATES WHERE SHOWN.

1. CONCRETE MATERIALS, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-A23.1.
2. SUPPLY CONTROLLED CONCRETE IN ACCORDANCE WITH CSA-A23.1 WITH PROPERTIES NOTED IN CONTROLLED CONCRETE TABLE.
3. MAXIMUM FLY ASH CONTENT NOT TO EXCEED 25% OF THE TOTAL CEMENTITIOUS MATERIAL.
4. NOTIFY CONSULTANT 48 HOURS PRIOR TO CONCRETE POURS TO ALLOW FOR REVIEW OF REINFORCEMENT.
5. DO NOT USE ADMIXTURES CONTAINING CALCIUM CHLORIDE.
6. FOR FLOOR SLABS, DESIGN THE CONCRETE MIX WITH AGGREGATE GRADING AND WATER TO CEMENTING MATERIALS RATIO TO MINIMIZE SHRINKAGE.
7. FIELD AND LABORATORY TESTING OF CONCRETE TO BE COMPLETED BY A THIRD PARTY TESTING AND INSPECTION AGENCY APPROVED BY AND RESPONSIBLE TO THE ENGINEER. TESTING AGENCY SHALL BE CERTIFIED TO CSA-A23.1. ONE SET OF 3 CYLINDERS SHALL BE MADE FOR EACH DAY'S POUR. COPIES OF TEST RESULTS SHALL BE SENT TO THE ENGINEER AND CONTRACTOR. CONTRACTOR SHALL PAY FOR TESTS.
8. COLD WEATHER REQUIREMENTS FOR POURING CONCRETE AS DEFINED BY CAN/CSA-A23.1, CLAUSE 7.4.2.5 MUST BE MET. CONTRACTOR SHALL ENSURE THAT ALL PRECAUTIONS ARE TAKEN TO ADEQUATELY CURE CONCRETE IN COLD WEATHER INCLUDING BUT NOT LIMITED TO: HEATING THE MIXING WATER, ADDING ACCELERATOR TO THE CONCRETE MIX, COVERING THE CONCRETE AND HEATING THE CONCRETE. WHEN THERE IS A PROBABILITY OF THE TEMPERATURE FALLING BELOW 5°C, AN ADDITIONAL CONCRETE CYLINDER (4 TOTAL) SHALL BE MADE. A MINIMUM OF 2 - 28 DAY SAMPLES SHALL BE LEFT ON SITE FOR 28 DAYS MINIMUM AND STORED UNDER SIMILAR TEMPERATURE AND HUMIDITY CONDITIONS AS THE IN-PLACE CONCRETE.
9. HOT WEATHER REQUIREMENTS FOR POURING CONCRETE AS DEFINED BY CAN/CSA-A23.1, CLAUSE 7.4.1.8.1 MUST BE MET. WHEN THERE IS A PROBABILITY OF THE TEMPERATURE RISING ABOVE 27°C, AN ADDITIONAL CONCRETE CYLINDER (4 TOTAL) SHALL BE MADE. A MINIMUM OF 2 - 28 DAY SAMPLES SHALL BE LEFT ON SITE FOR 28 DAYS MINIMUM AND STORED UNDER SIMILAR TEMPERATURE AND HUMIDITY CONDITIONS AS THE IN-PLACE CONCRETE.

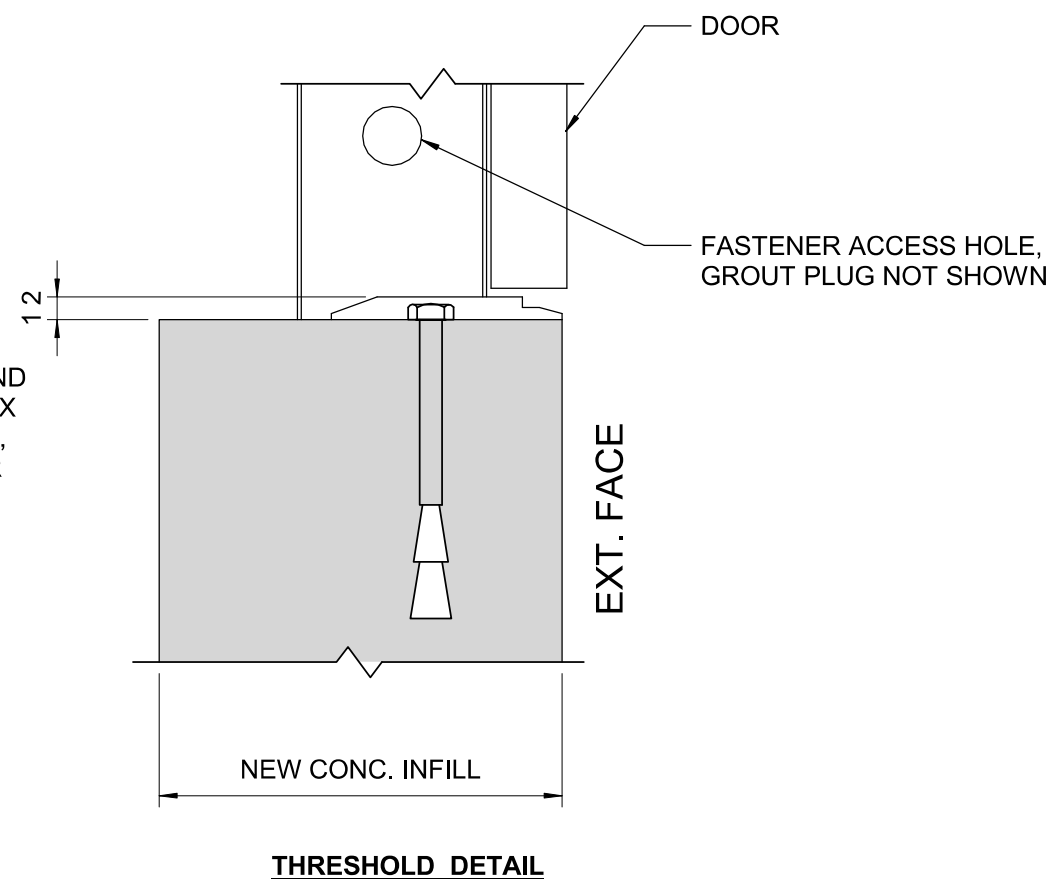
1. REINFORCEMENT STEEL TO CONFORM TO CSA-G30, 18 GRADE 400.
2. DO NOT WELD REINFORCEMENT UNLESS APPROVED IN WRITING BY THE ENGINEER. REINFORCEMENT TO BE WELDED TO CONFORM TO CSA-G30-18, GRADE 400W. WELDING ONLY PERMITTED BY AN ORGANIZATION CERTIFIED TO CSA-W186.
3. REINFORCEMENT WITH "H" OR "E" CONCRETE PLACEMENT TO ALLOW FOR REVIEW OF REINFORCING.
4. REINFORCEMENT NOTED WITH "H" TO HAVE A STANDARD HOOK AT ONE END. LENGTH OF BAR INDICATED IS EXCLUSIVE OF HOOK LENGTH.
5. CLEAR CONCRETE COVER TO REINFORCEMENT - REFER TO CLEAR CONCRETE COVER TO REINFORCEMENT TABLE.
6. STANDARD END HOOK LENGTHS FOR REINFORCING - REFER TO STANDARD END HOOKS TABLE.
7. REINFORCEMENT SPLICES - REFER TO REINFORCEMENT SPLICES TABLE.
  - a. WHERE SPLICES ARE INDICATED ON THE DRAWINGS, SUCH DIMENSIONS SHALL APPLY.
  - b. WHERE THE DRAWINGS INDICATE TENSION OR COMPRESSION SPLICES, IT SHALL BE AS INDICATED IN REINFORCEMENT SPLICES TABLE.
  - c. WHERE NO SPLICE OR SPLICE TYPE IS INDICATED ON THESE DRAWINGS, IT SHALL BE A TENSION SPLICE EXCEPT FOR COLUMNS WHICH SHALL BE A COMPRESSION SPLICE.
8. EMBEDMENT OF DOWELS - REFER TO REINFORCEMENT SPLICES TABLE.
  - a. WHERE EMBEDMENT IS INDICATED ON THE DRAWINGS, SUCH DIMENSIONS SHALL APPLY.
  - b. WHERE THE DRAWINGS INDICATE TENSION OR COMPRESSION EMBEDMENT, IT SHALL BE AS NOTED IN THE REINFORCEMENT SPLICES TABLE.
  - c. WHERE NO EMBEDMENT OR EMBEDMENT TYPE IS INDICATED ON THESE DRAWINGS, IT SHALL BE A TENSION EMBEDMENT EXCEPT FOR COLUMNS WHICH SHALL BE A COMPRESSION EMBEDMENT.
9. OPENINGS IN WALLS AND SLABS - PROVIDE TWO 15M BARS EACH SIDE, ONE EACH FACE, EXTENDING 600mm PAST THE OPENINGS. PROVIDE 150mm MINIMUM BARS AT EACH CORNER. PROVIDE 150mm LONG UNLESS NOTED OTHERWISE.
10. DO NOT CUT REINFORCEMENT AT OPENINGS WHERE IT CAN BE SPREAD CONTINUOUS AROUND OPENING.
11. ALL REINFORCEMENT TO BE SUPPORTED AT 900mm MAXIMUM SPACING.

1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CAN/CSA-S269.3.

1. DETAILING, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE CSA S157-17, "ALUMINUM DESIGN MANUAL" AND THE "ALUMINUM CONSTRUCTION MANUAL".
2. ROLLED AND EXTRUDED SECTIONS - ASTM 6061.T6.  $F_y=240\text{MPa}$ .
3. BOLTS - STAINLESS STEEL BOLTS ASTM 325.
4. ALL HOLES FOR BOLTS SHALL BE EQUAL TO BOLT DIAMETER PLUS 1.6mm.
5. WELDING - CONFORM TO CSA - W59.2M AND CSA S157-17.

### HARDWARE NOTE:

1. DOOR HARDWARE TO INCLUDE:  
PANIC BAR, PUSH PLATE, CYLINDRICAL/MORTISE LOCK, LEVER, BOW HANDLE, PSI BAR LATCH (NON-LOCKING).
2. CLOSER: RETROLOCK TDC-40 SERIES, AL689 FINISH.



ADDL	"ADDITIONAL"	LG.	"LONG"
ALT	"ALTERNATE"	MAX	"MAXIMUM"
ALUM	"ALUMINUM"	MECH	"MECHANICAL"
APPD	"APPROVED"	MIN	"MINIMUM"
APPROX or ±	"APPROXIMATELY"	NTS	"NOT TO SCALE"
ARCH	"ARCHITECT"	O.C.	"ON CENTER"
AR or A.ROD	"ANCHOR ROD"	O.F.	"OUTSIDE FACE"
B.L.L.	"BOTTOM LOWER LAYER"	OPNG	"OPENING"
B.U.L.	"BOTTOM UPPER LAYER"	OPP	"OPPOSITE"
BM	"BEAM"	P	"PLATE"
BOT	"BOTTOM"	R/W	"REINFORCE WITH"
BS	"BOTH SIDES"	REINF	"REINFORCING"
C/W	"COMPLETE WITH"	S.F.	"STEP FOOTING"
CANT	"CANTILEVER"	S.W.	"SHORT WAY"
CLR	"CLEAR"	SIM	"SIMILAR"
CMU	"CONCRETE MASONRY UNIT"	STAGG	"STAGGERED"
COL	"COLUMN"	STIFF	"STIFFENER"
CONC	"CONCRETE"	STIRR	"STIRRUPS"
CONN	"CONNECTION"	SYMM	"SYMMETRICAL"
CONT	"CONTINUOUS"	T&B	"TOP & BOTTOM"
CP	"COMPLETE PENETRATION" (WELD)	T.L.L.	"TOP LOWER LAYER"
DIA	"DIAMETER"	T.O.	"TOP OF"
DWG	"DRAWING"	T.O.F.	"TOP OF FOOTING"
DWL	"DOWEL"	T.O.S.	"TOP OF STEEL"
(E)	"EXISTING"	T.O.W.	"TOP OF WALL"
E.F.	"EACH FACE"	T.U.L.	"TOP UPPER LAYER"
E.S.	"EACH SIDE"	THK	"THICK"
E.W.	"EACH WAY"	Typ	"TYPICAL"
EL	"ELEVATION"	U.N.O.	"UNLESS NOTED OTHERWISE"
ELEV	"ELEVATION"	U/S	"UNDERSIDE"
FTG	"FOOTING"	VERT	"VERTICAL"
H1E	"HOOK ONE END"	VIF	"VERIFY IN FIELD"
H2E	"HOOK TWO ENDS"	W/	"WITH"
HORIZ	"HORIZONTAL"	WP	"WORK POINT"
I.F.	"INSIDE FACE"	WWW	"WELDED WIRE MESH"
L.W.	"LONG WAY"		



Copyright Reserved

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden. The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

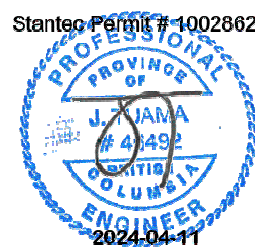
Consultant

## Notes

[illegible]

File Name: N/A	KB	BF	JT	2023.10.12
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal



Client/Project Logo

Client/Project  
SUNSHINE COAST REGIONAL DISTRICT

CHAPMAN WTP UV UPGRADE

Title

GENERAL NOTES

Project No. 111700729	Scale 1 : 1
Revision	Drawing No. <b>S 100</b>





The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden. The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

---

Notes

[illegible]

Stanted Permit # 1002862

Client/Project  
SUNSHINE COAST REGIONAL DISTRICT

Title  
NEW PLATFORM LAYOUT

Project No. 111700729	Scale As indicated
Revision	Drawing No. <b>S 101</b>



ORIGINAL SHEET - ANSLED



Copyright Reserved

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.  
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

Consultant

Notes

6 ISSUED FOR TENDER	BF	JT	2024.03.28
5 ISSUED FOR BUILDING PERMIT	BF	JT	2024.03.28
4 ISSUED FOR HEALTH PERMIT	BF	JT	2024.03.27
3 ISSUED FOR 100% DESIGN REVIEW	BF	JT	2024.03.01
2 ISSUED FOR 75% DESIGN	BF	JT	2024.01.19
1 ISSUED FOR 70% DESIGN	BF	JT	2023.10.20

Issued/Revision By Appd YYYY-MM-DD

File Name: N/A	KB	BF	JT	2023.10.20
	Dwn.	Dsgn.	Chkd.	YYYY-MM-DD

Permit/Seal



Client/Project Logo

Client/Project  
SUNSHINE COAST REGIONAL DISTRICT

CHAPMAN WTP UV UPGRADE

Title  
SECTIONS AND DETAILS

Project No. 111700729 Scale As indicated  
Revision Drawing No. S-102

KEYNOTES:

- DBI SALA S.S. SIDE MOUNT SLEEVE, REFER TO DETAIL 4/S-103 FOR BASE PLATE CONNECTION
- REMOVABLE ALUMINUM GUARDRAIL, SEE DETAIL 2/S-104
- PL. 6x150 KICKPLATE AT TOP OF BEAM, SEE DETAIL 3/S-103, TYP.
- EXISTING DOOR TO BE MOVED TO PLATFORM LEVEL, CONCRETE FILL EXISTING DOOR OPENING, SEE 3/S-102 AND 4/S-102
- NEW SINGLE SWING METAL DOOR (900x2100) WITH PRESSED METAL DOOR FRAME
- ACCESS STAIR, FOR DETAILS SEE 3/S-101 AND 4/S-101
- STEEL PIPE SUPPORT SADDLE AT 2500 MAX. SPACING, MIN. 1 E.S. OF FLOW METRE AND U.V. REACTOR, HEIGHT TO SUIT PIPE, SEE DETAIL 6/S-103.
- 150 THICK HOUSEKEEPING PAD, SEE DETAIL 5/S-101
- 165 THICK CONC. PAD R/W 15M @ 300 E.W. AT MID-DEPTH, SLOPE 20mm TO NEW DRAIN
- BAND OPENING IN GRATING FOR FOR VALVE OPERATOR.
- ELECTRICAL TRANSFORMER, SEE SECTION, 6/S-101
- SUPPORT COLUMN, SEE DETAIL 8/S-103

NOTES:

- CLEAN, ROUGHEN AND APPLY BONDING AGENT (SIKA HIBOND) TO FACE OF EXISTING CONCRETE PRIOR TO PLACING NEW CONCRETE.
- FINAL SLAB THICKNESS AND ELEVATION TO BE DETERMINED ON SITE.

1 SECTION  
S-101  
SCALE: 1 : 50

2 SECTION  
S-101  
SCALE: 1 : 25

3 SECTION  
S-101  
SCALE: 1 : 20

4 SECTION  
SCALE: 1 : 20

5 SECTION  
PD-101  
SCALE: 1 : 20

EXISTING DOOR RELOCATION - STAGE 1 AND STAGE 3

EXISTING DOOR RELOCATION - STAGE 2

NEW LANDING AT NEW DOOR





The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden. The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

## Notes

[illegible]

Stantec Permit # 1002862



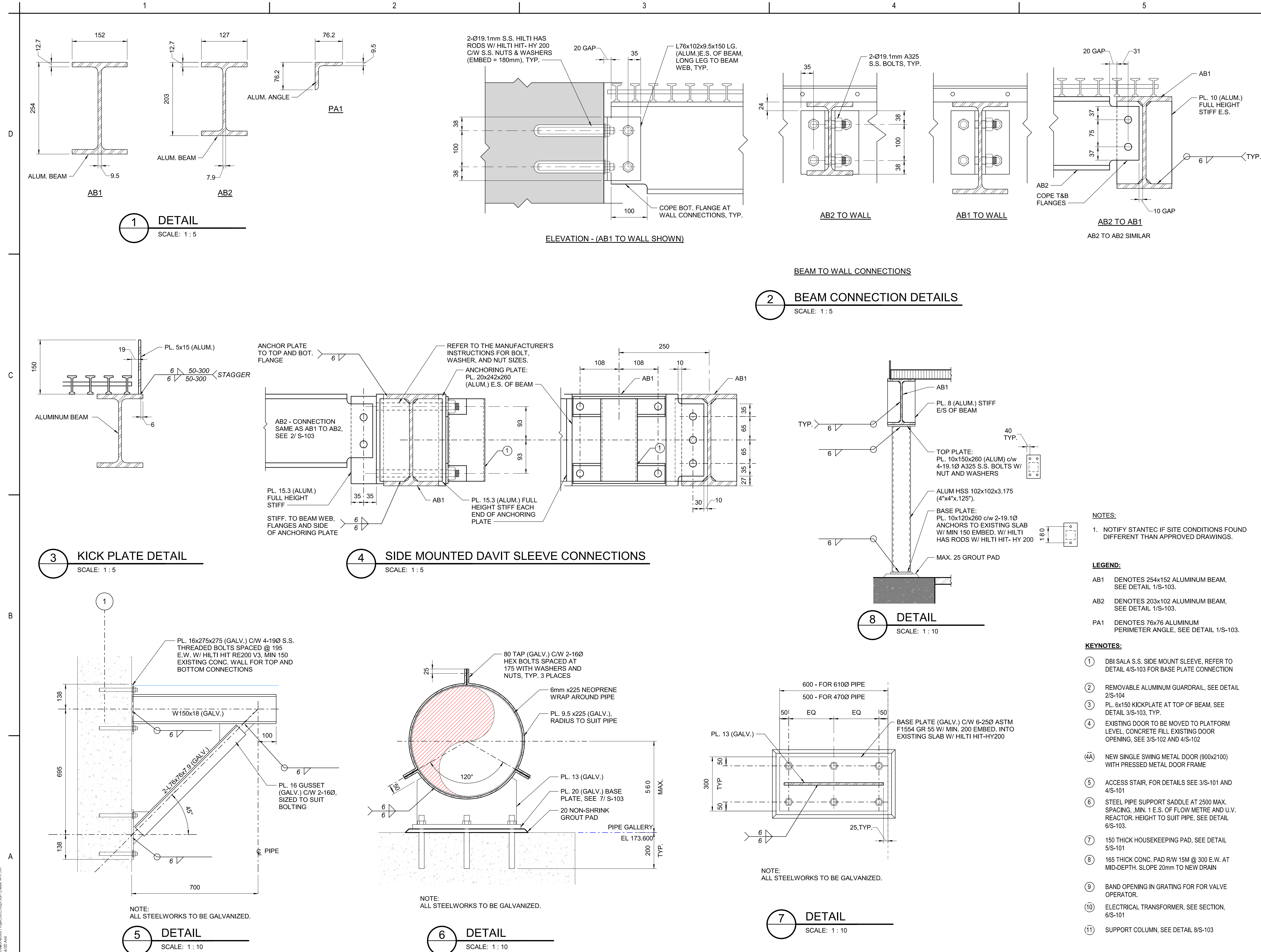
Client/Project Logo

Client/Project  
SUNSHINE COAST REGIONAL DISTRICT

CHAPMAN WTP UV UPGRADE

Title  
DETAILS - SHEET 1

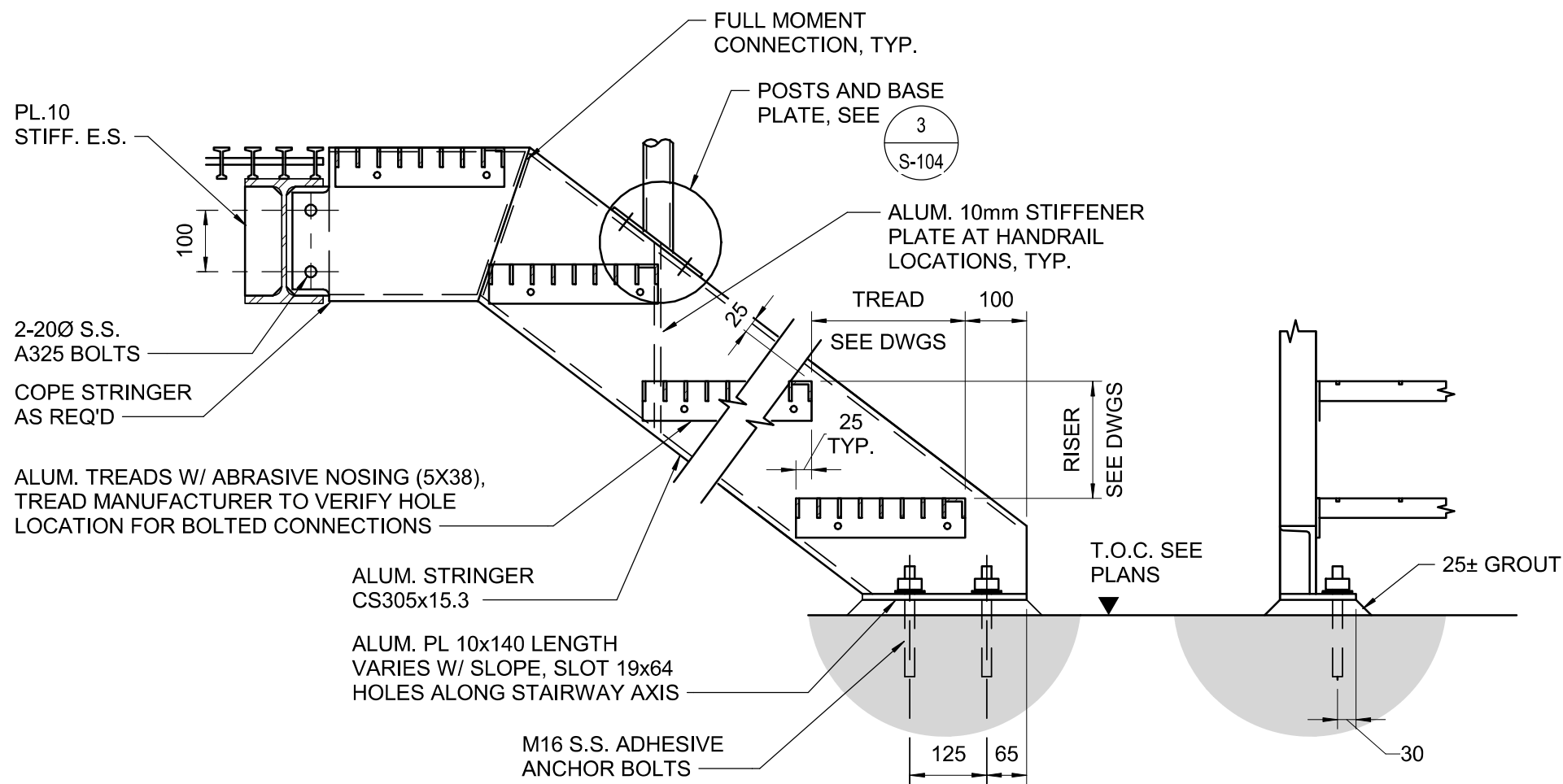
Project No. 111700729	Scale As indicated
Revision	Drawing No. <b>S 101</b>





D  
C  
B  
A

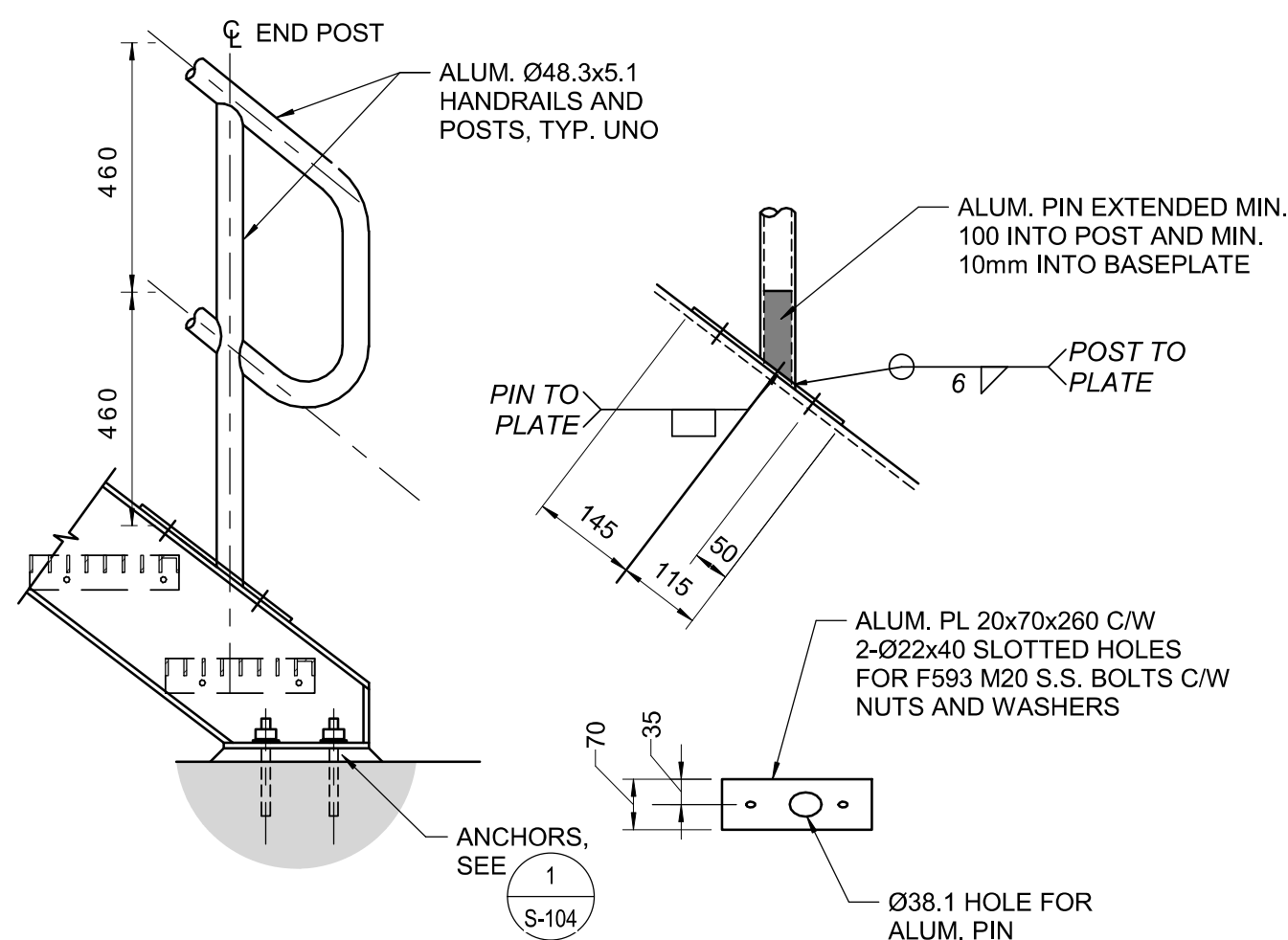
Rev: 005 / 11/2024 / 840035-001 / 2/11/2024 / 840035-001  
ORIGINAL SHEET - ANSI D



- NOTES:
1. ALL ALUMINUM MATERIAL TO BE T6061-T6 UNLESS OTHERWISE NOTED ON THE DRAWINGS.
  2. ALL ALUMINUM MATERIAL IN CONTACT WITH CONCRETE, INCLUDING ANCHORS TO BE PAINTED WITH TWO COATS OF ALKALI-RESISTANT BITUMINOUS PAINT.
  3. SEE 7/S-103 GRATING NOTES AND DETAILS.
  4. HANDRAIL NOT SHOWN FOR CLARITY.
  5. ALL NON-ALUMINUM MATERIAL TO BE GALVANIZED STEEL (HOT DIPPED GALVANIZED IN ACCORDANCE WITH CSA G164).

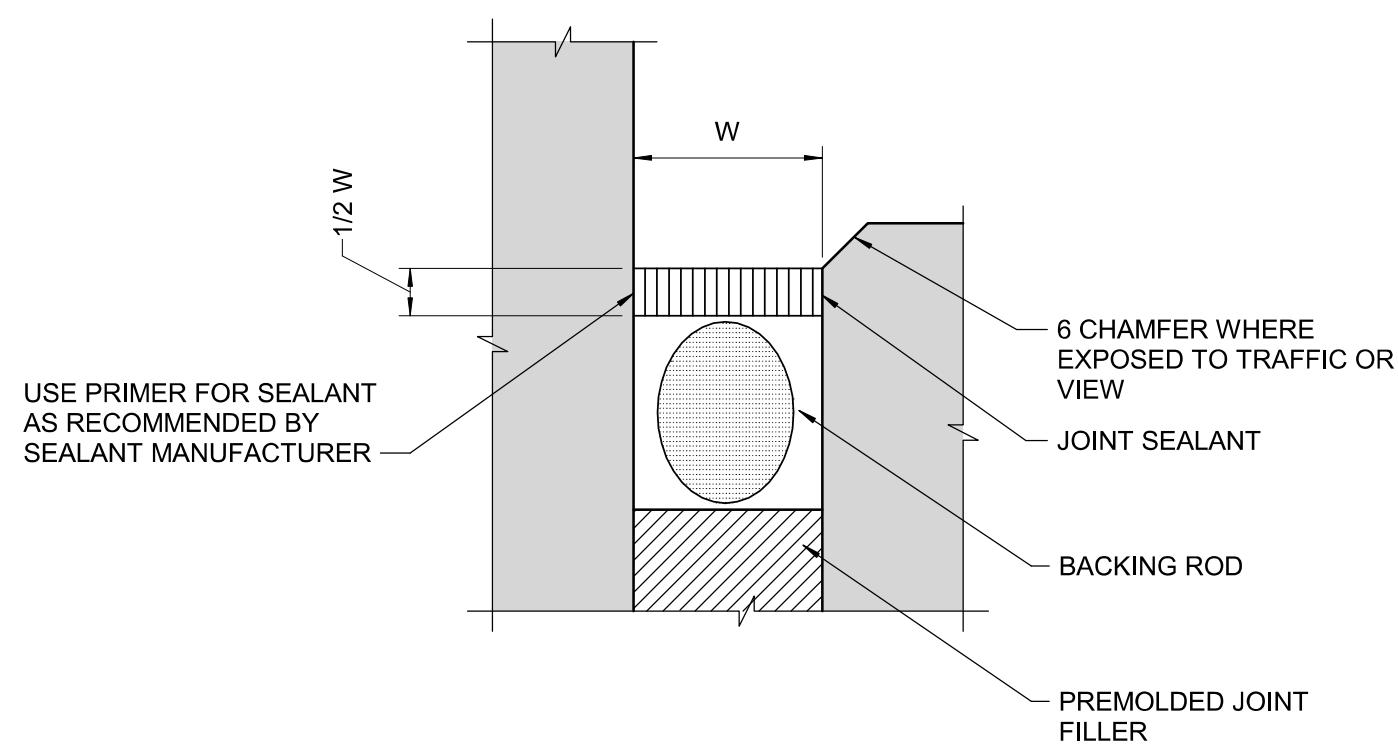
### 1 ALUMINUM STAIR

SCALE: 1 : 10



### 3 STAIR HANDRAILING

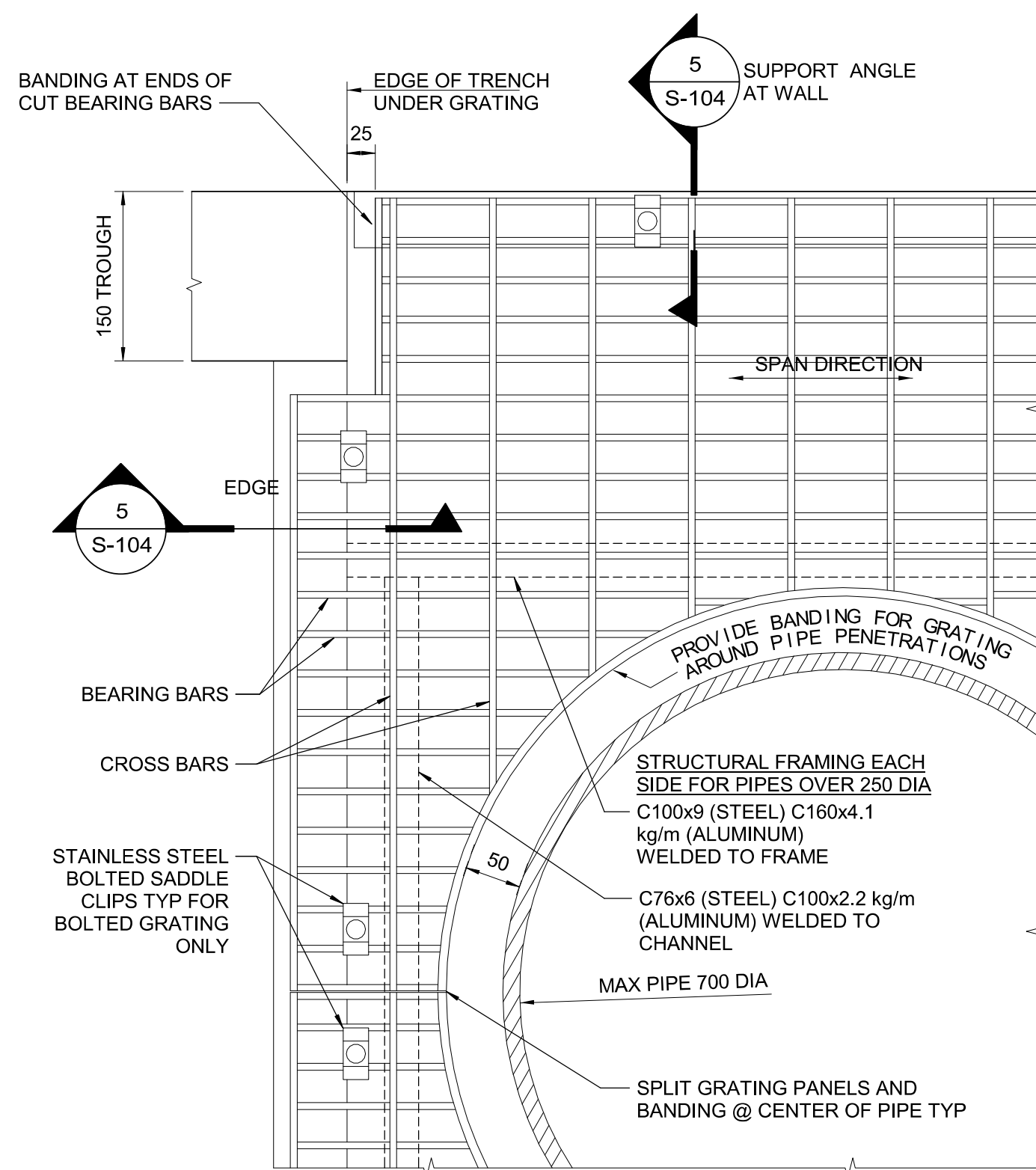
SCALE: 1 : 10



### ISOLATION JOINT

### 6 ISOLATION JOINT

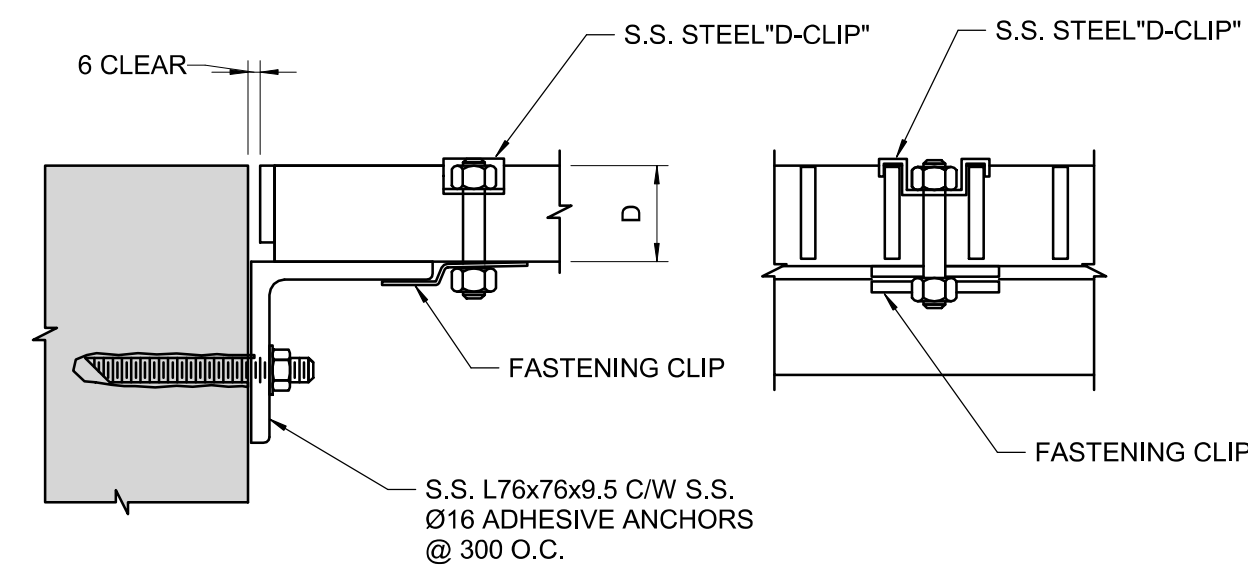
SCALE: 1 : 10



### 4 GRATING

SCALE: 1 : 10

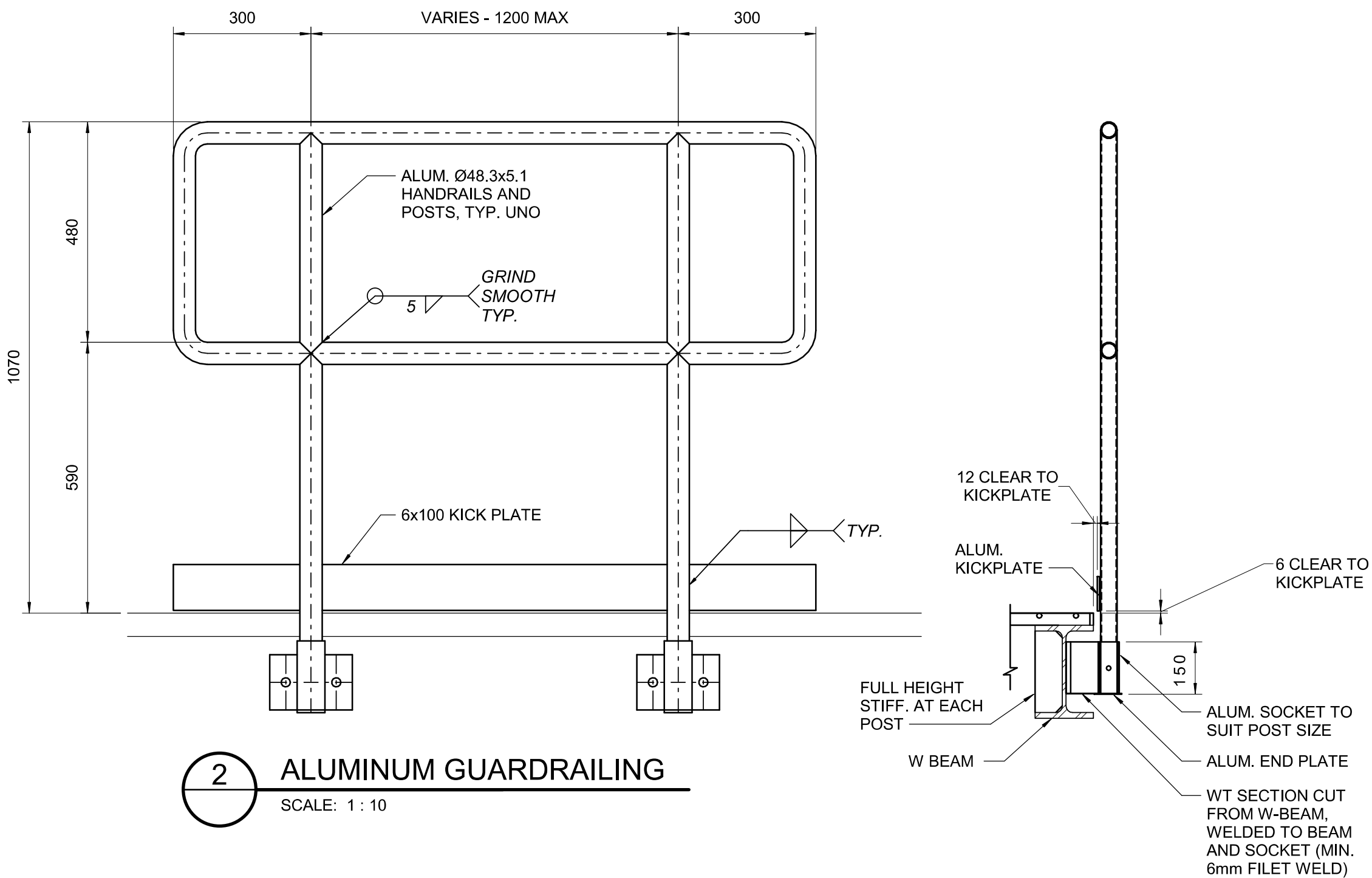
- NOTES:
1. ALL BEARING BARS SHALL BE WELDED TO EDGE BARS.
  2. GRATING BEARING BARS SIZE AS SHOWN ON DESIGN DRAWINGS.
  3. EACH PIECE OF ALUMINUM GRATING SHALL NOT EXCEED MASS OF 40 kg.
  4. SADDLE CLIPS REQUIRED FOR WALKWAYS AND RAISED PLATFORMS ONLY U.N.O.
  5. LIMIT NUMBER OF CUT BEARING BARS TO SUIT LOADING REQUIREMENTS. PROVIDE ADDITIONAL SUPPORT AS NECESSARY.
  6. DEPTH OF BANDED END BAR ARE TO BE 6mm LESS THAN THE BEARING BARS.
  7. OPENINGS IN GRATING TO BE BANDED WITH SAME SIZE OF PLATE USED FOR BEARING BARS AND GRIND TO A SMOOTH FINISH. REFER TO MANUFACTURER'S SPEC. FOR MAX. OPENING SIZE.
  8. ENSURE CLIPS AND BOLTS CANNOT FALL OFF WHEN GRATING IS REMOVED.
  9. PAINT ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE WITH TWO COATS OF ALKALI RESISTANT BITUMINOUS PAINT.



- NOTES:
1. ENSURE CLIPS AND BOLTS CANNOT FALL OFF WHEN GRATING IS REMOVED
  2. PAINT ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE WITH TWO COATS OF ALKALI RESISTANT BITUMINOUS PAINT.

### 5 GRATING SUPPORT

SCALE: 1 : 10



### 2 ALUMINUM GUARDRAILING

SCALE: 1 : 10



Stantec Consulting Ltd.  
500-4515 Central Blvd  
Burnaby, BC V5H 0C6  
Tel: (604) 436-3014 • www.stantec.com

#### Copyright Reserved

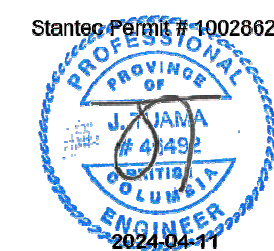
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.  
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

#### Consultant

#### Notes

5 ISSUED FOR TENDER	BF	JT	2024.03.28
4 ISSUED FOR BUILDING PERMIT	BF	JT	2024.03.28
3 ISSUED FOR HEALTH PERMIT	BF	JT	2024.03.27
2 ISSUED FOR 100% DESIGN	BF	JT	2024.03.01
1 ISSUED FOR 95% DESIGN	BF	JT	2024.01.19
Issued/Revision	By	Appd	YYYY-MM-DD
File Name: N/A	KB	JT	2023.10.20
	Dwn.	Dsgn.	Chkd.

#### Permit/Seal



#### Client/Project Logo

Client/Project  
SUNSHINE COAST REGIONAL DISTRICT

CHAPMAN WTP UV UPGRADE

Title  
DETAILS - SHEET 2

Project No.  
111700729

Scale  
1 : 10

Revision

Drawing No.

S-104



The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.  
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

## Notes

[illegible]

6 ISSUED FOR TENDER	MJL	DC	2024.03
5 ISSUED FOR BUILDING PERMIT	MJL	DC	2024.03
4 ISSUED FOR HEALTH PERMIT	MJL	DC	2024.03
3 ISSUED FOR 95% DESIGN	MJL	DC	2024.01
2 ISSUED FOR 90% DESIGN	MJL	DC	2023.10
1 ISSUED FOR 50% DESIGN	IB	DC	2022.06
Issued/Revision	By	Appd	YYYY.MM

File Name: E-021.DWG	EGD	IB	DC	2022.06
	Dwn.	Dsan.	Chkd.	YYYY.MM

Association of Professional  
Engineers and Geoscientists  
of the Province of  
British Columbia  
T. D. COOK  
PROFESSIONAL  
LICENSEE  
ENGINEERING  
Licence 216203

Stantec Permit # 1002862

2024-04-11

Client/Project  
SUNSHINE COAST REGIONAL DISTRICT

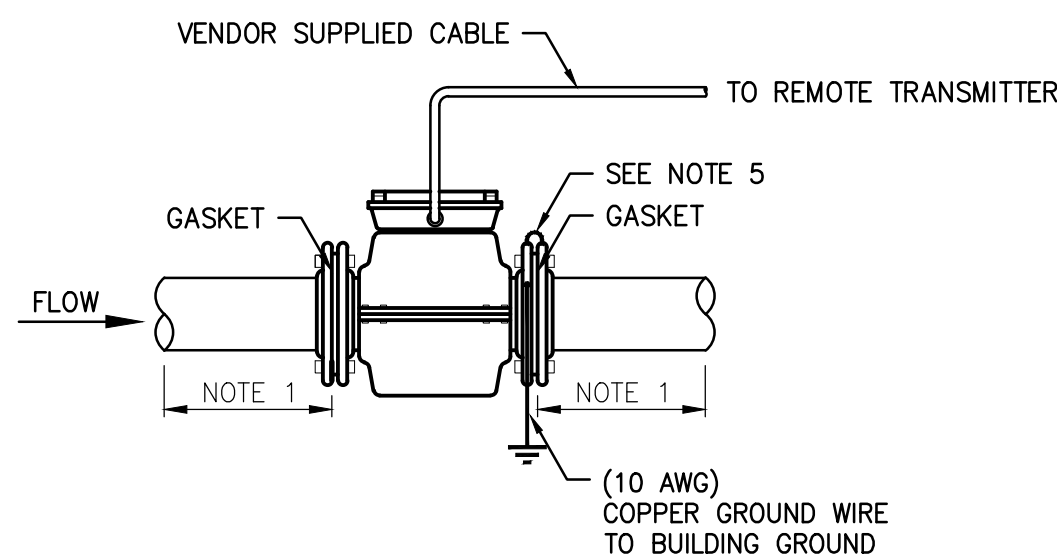
CHAPMAN WTP UV UPGRADE

ELECTRICAL  
STANDARD DETAILS

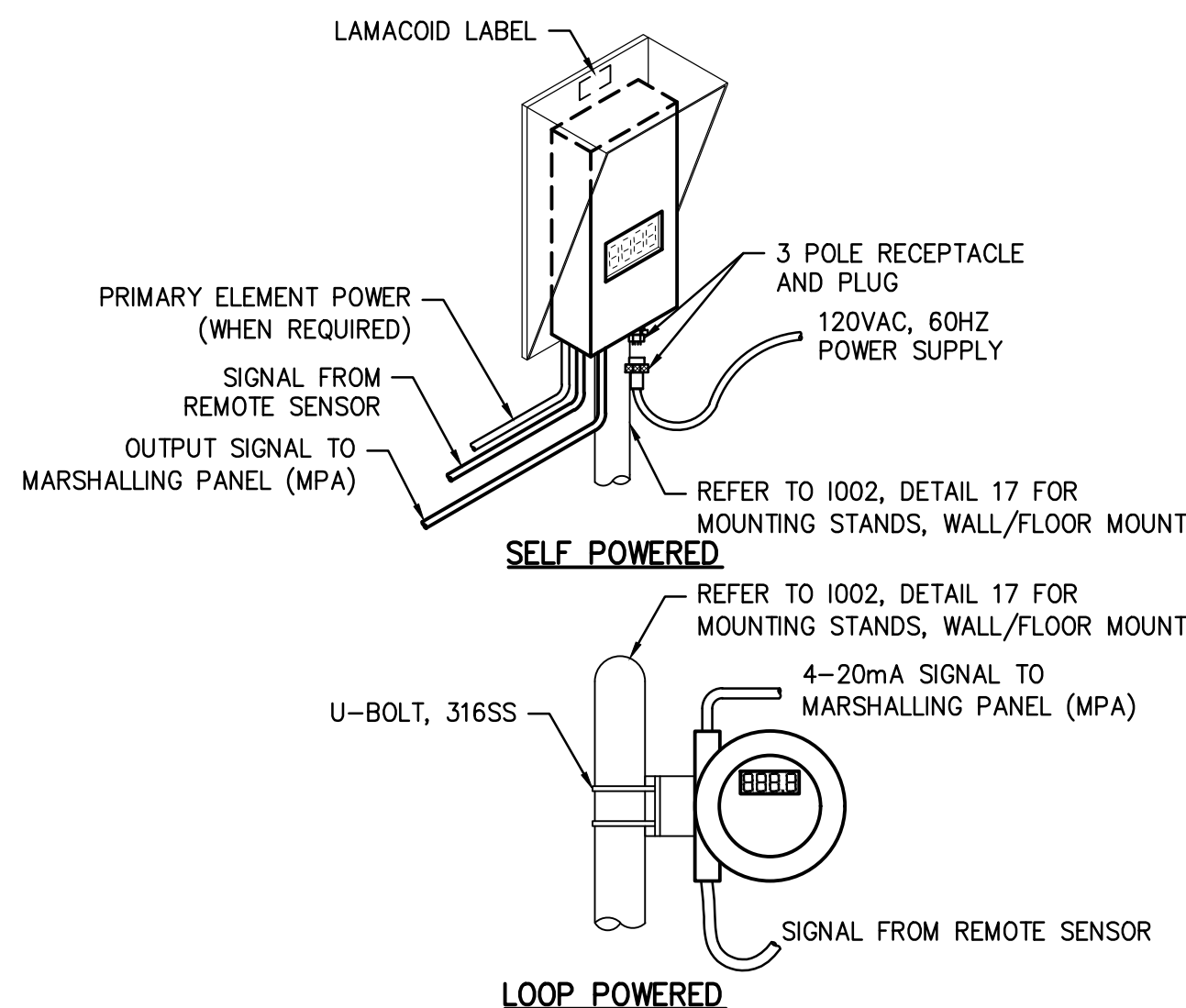
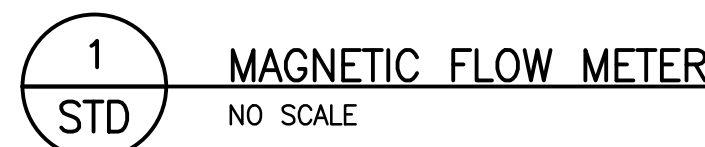
Drawing No.

500

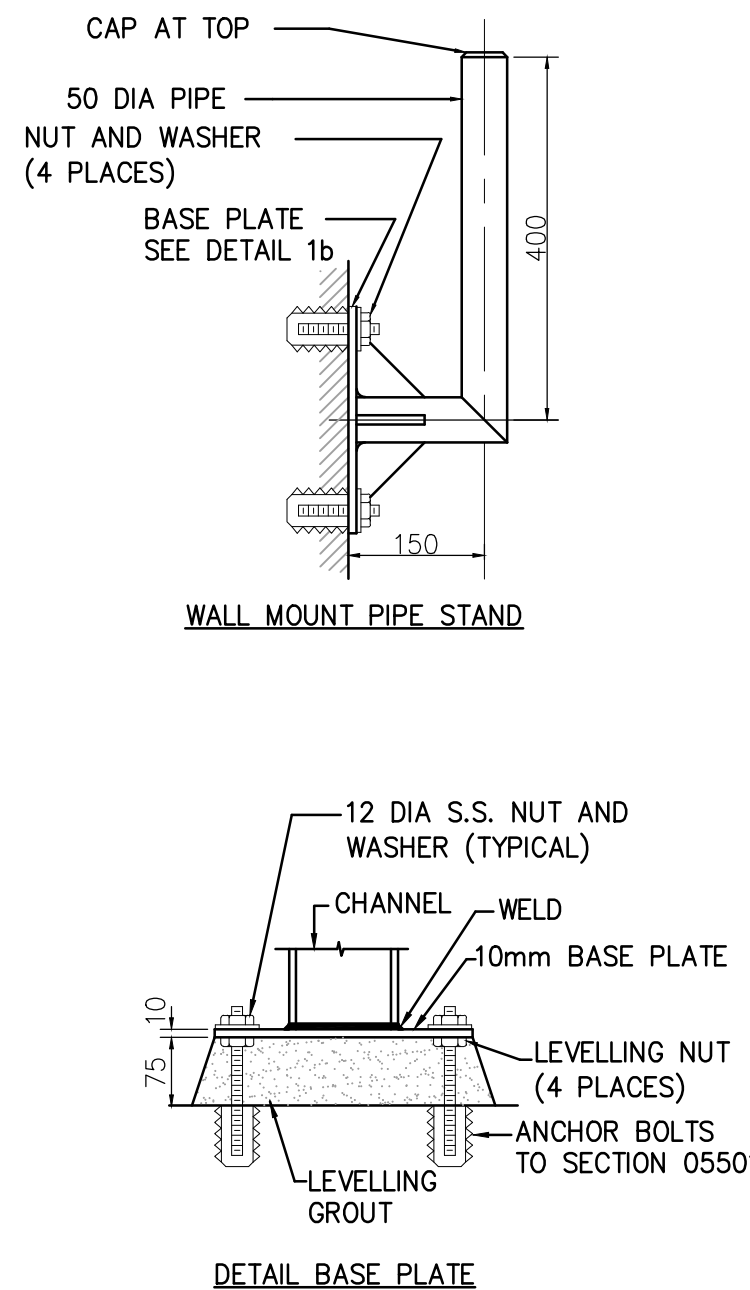
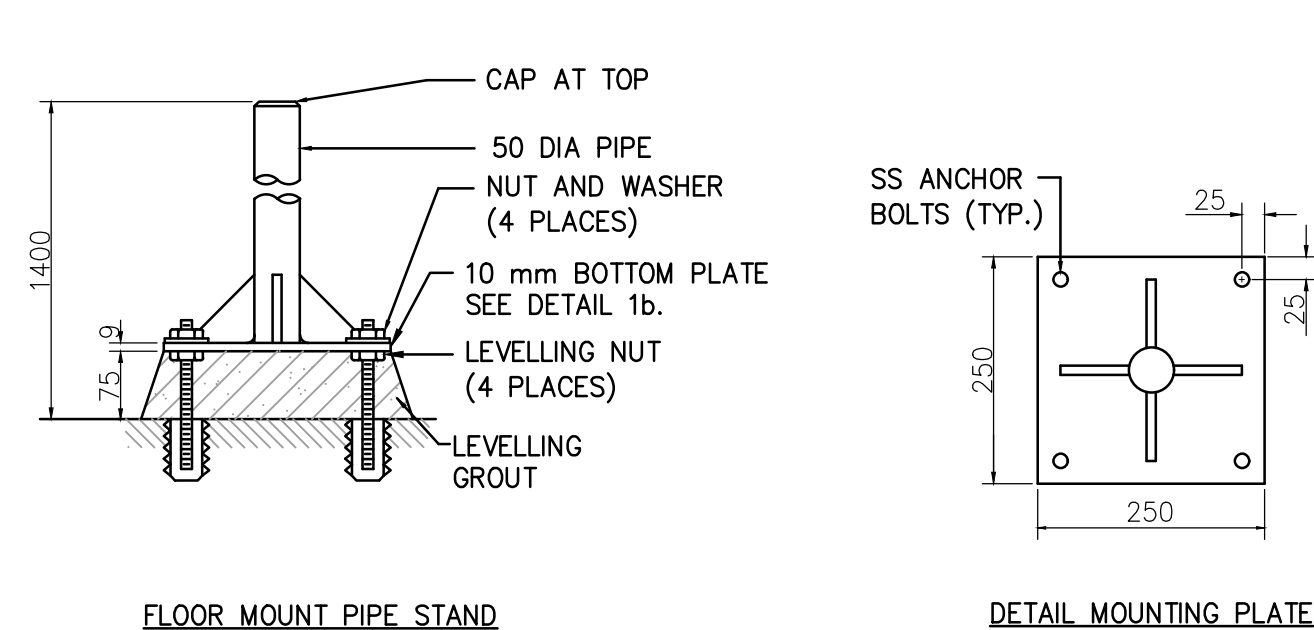
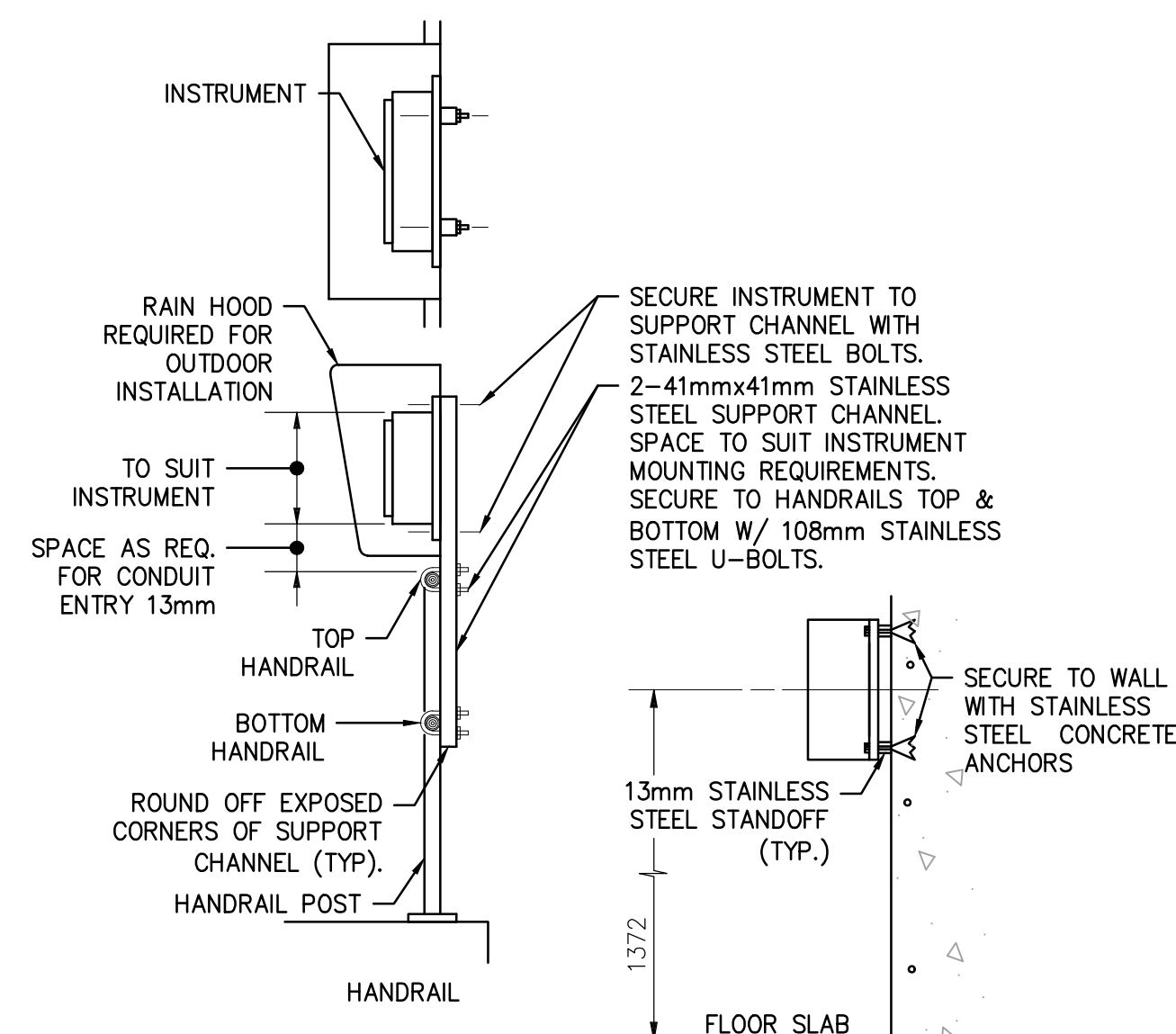
E-021



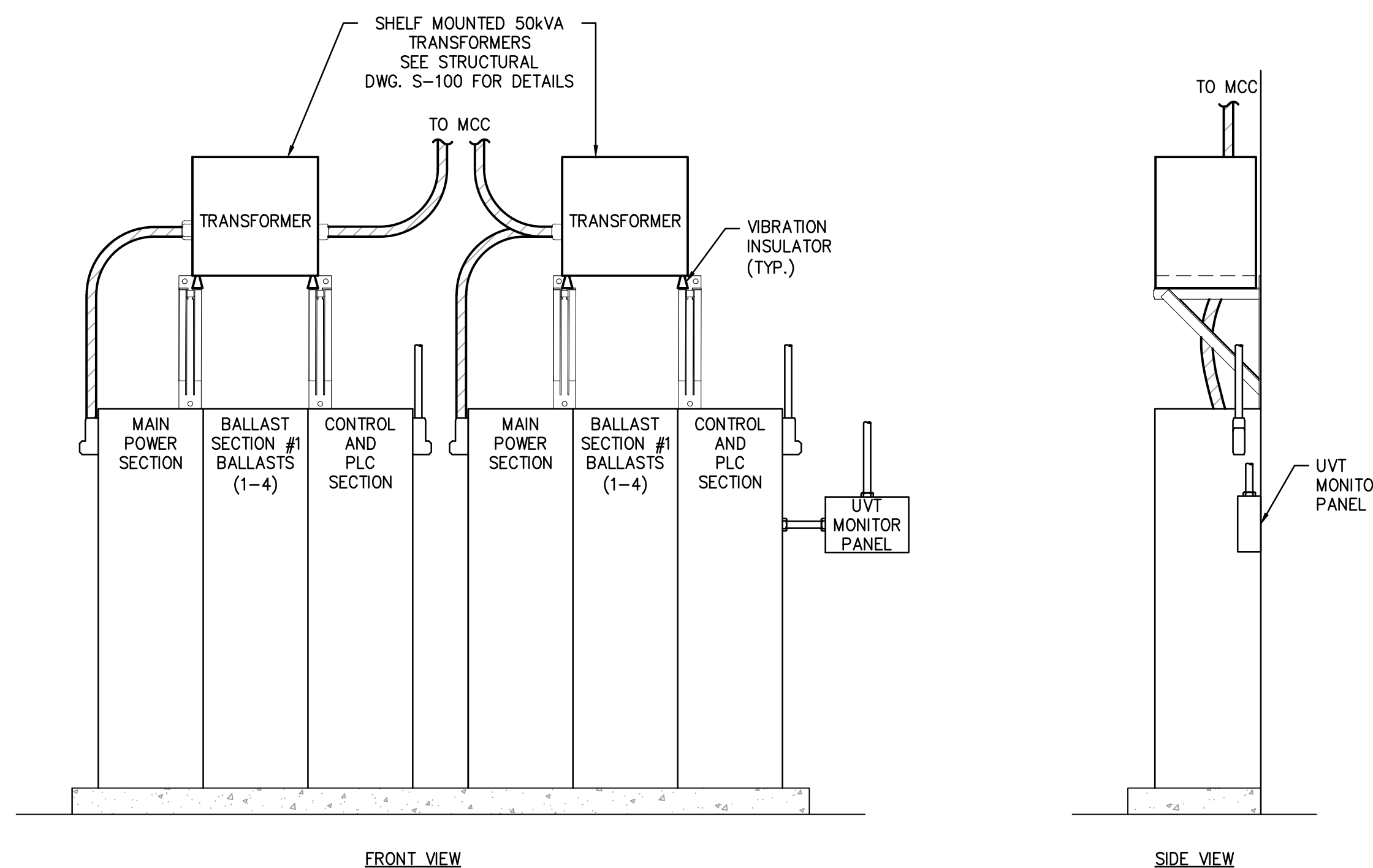
1. LOCATE THE METER IN A STRAIGHT RUN OF PIPE FREE OF VALVES OR FITTINGS WITH MINIMUM 5 PIPE IDS UPSTREAM AND 2 PIPE IDS DOWNSTREAM.
2. IN A VERTICAL PIPE RUN, MOUNT THE METER WITH THE FLOW DIRECTION UPWARD.
3. THE PROCESS PIPE MUST FLOW FULL OF LIQUID.
4. AVOID LOCATING MAGNETIC FLOWMETERS NEAR HEAVY INDUCTION EQUIPMENT (100hp and LARGER, NO CLOSER THAN 6m).
5. INSTALL BONDING CABLES (SUPPLIED WITH MAGNETIC FLOWMETERS) ON METALLIC PIPES ONLY.



1. REFER TO INSTRUMENT SPECIFICATION SHEET FOR REMOTE TRANSMITTER TYPE.



1. PIPE, CHANNEL AND MOUNTING PLATE COPPER FREE ALUMINUM.
2. TOP OF PIPE TO BE 1400 (NOMINAL) ABOVE SERVICE FLOOR.
3. GROUTING TO BE POURED ONCE FLOOR MOUNT STAND PLUMBED FASTENED IN PLACE.
4. MOUNT INSTRUMENTS SUCH THAT INDICATION OR ADJUSTMENTS ARE 1200mm TO 1500mm ABOVE FLOOR.



1. WIRING IN WET OR PROCESS AREAS TO ENTER PANELS FROM SIDE OR BOTTOM.

2. CABLES TO BE SIDE MOUNTED, WHILE MAINTAINING APPROPRIATE SPACING OF SURROUNDINGS. CONTRACTOR TO REPORT BACK ON AVAILABLE SPACE FROM OTHER ELECTRICAL SOURCES.





6 ISSUED FOR TENDER	M/JL	DC	2024.03.28
5 ISSUED FOR BUILDING PERMIT	M/JL	DC	2024.03.28
4 ISSUED FOR HEALTH PERMIT	M/JL	DC	2024.03.27
3 ISSUED FOR 95% DESIGN	M/JL	DC	2024.01.19
2 ISSUED FOR 90% DESIGN	M/JL	DC	2023.10.20
1 ISSUED FOR 50% DESIGN	IB	DC	2022.08.12
Issued/Revision	By	Appd	YYYY.MM.DD
File Name: E-101.DWG	EGD	IB	2022.08.10
	Dwn.	Dsgn.	Chkd.

## Permit/Seal



Client/Project Logo

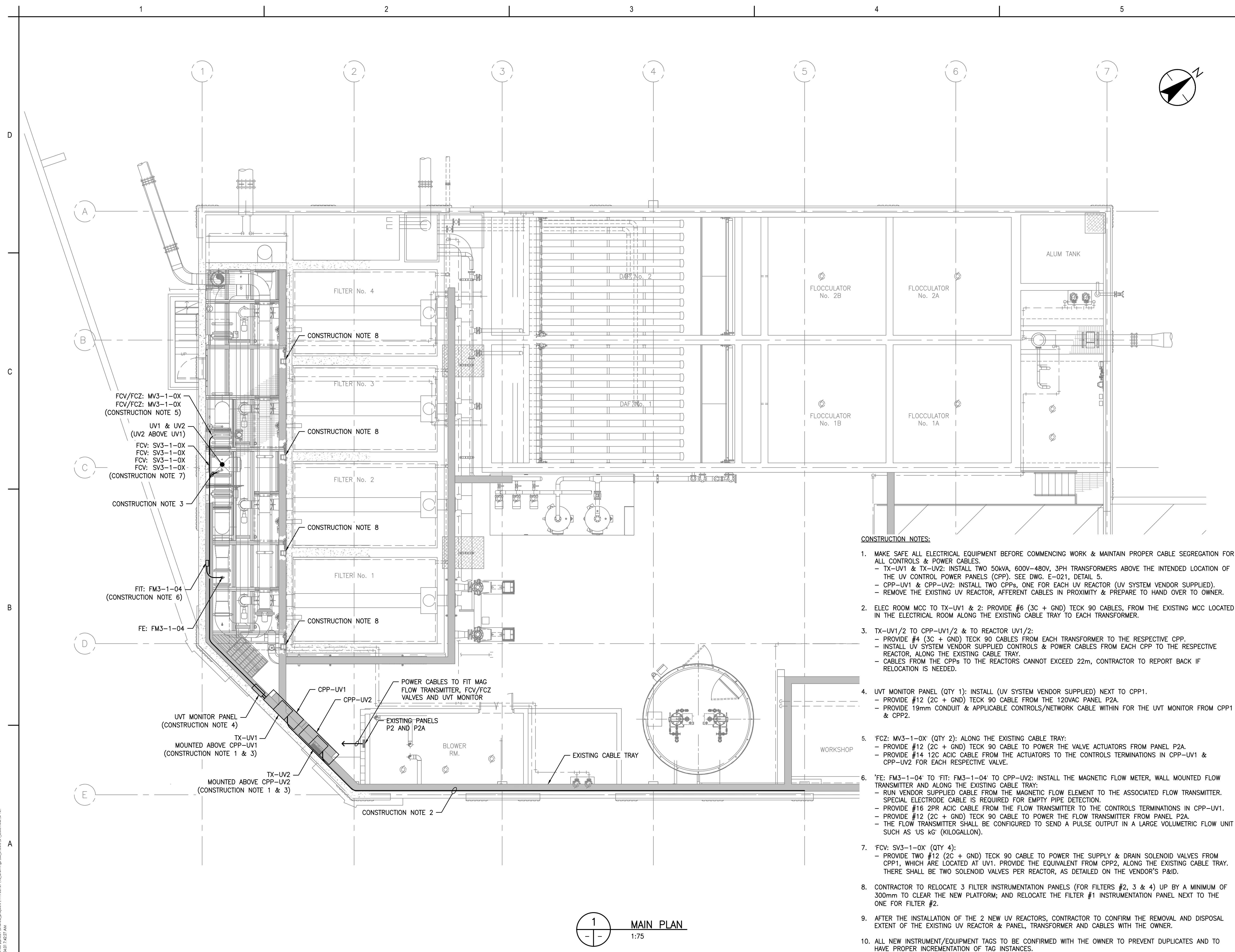
Client/Project  
SUNSHINE COAST REGIONAL DISTRICT

CHAPMAN WTP UV UPGRADE

Title  
ELECTRICAL  
MAIN FLOOR - POWER PLAN

Project No. 111700729	Scale 1:75
Revision	Drawing No. <b>E 101</b>

**E-101**





The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.  
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

Consultant

## Notes

6 ISSUED FOR TENDER	MJL	DC	2024.03.28
5 ISSUED FOR BUILDING PERMIT	MJL	DC	2024.03.28
4 ISSUED FOR HEALTH PERMIT	MJL	DC	2024.03.27
3 ISSUED FOR 95% DESIGN	MJL	DC	2024.01.19
2 ISSUED FOR 90% DESIGN	MJL	DC	2023.10.20
1 ISSUED FOR 50% DESIGN	IB	DC	2022.08.12

Issued/Revision	By	Appd	YYYY.MM.DD
-----------------	----	------	------------

File Name: E-102.DWG	EGD	IB	DC	2022.08.10
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal



Stantec Permit # 1002862

2024-04-11

Client/Project Logo

Client/Project  
SUNSHINE COAST REGIONAL DISTRICT

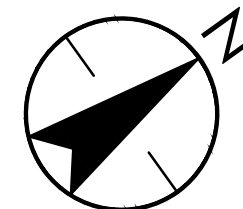
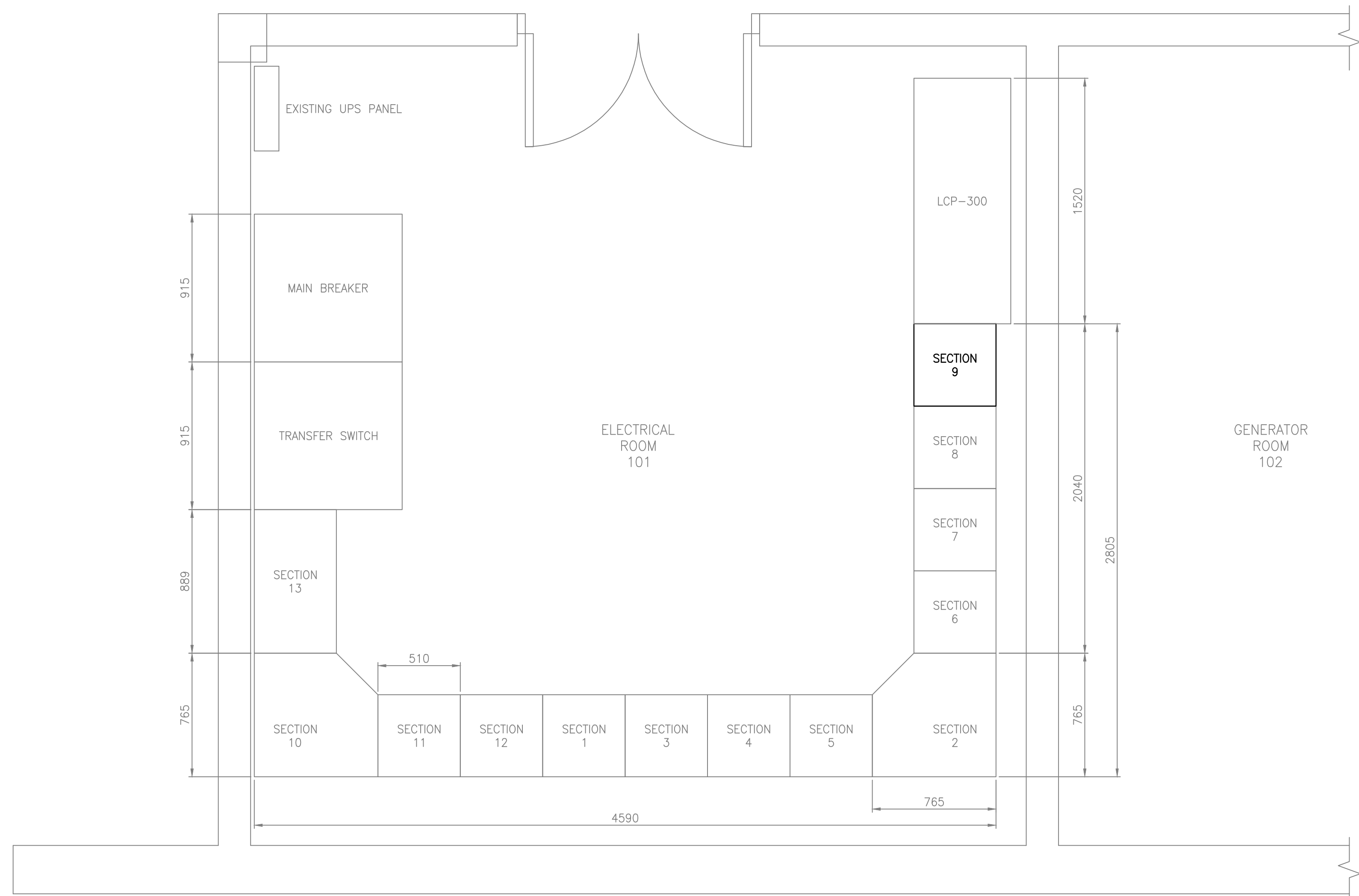
CHAPMAN WTP UV UPGRADE

Title  
ELECTRICAL  
MEZZANINE - POWER PLAN

Project No.	Scale
111700729	1:20

Revision \_\_\_\_\_ Drawing No. \_\_\_\_\_

**E-102**



MEZZANINE FLOOR PLAN  
1:20

[illegible]

2 MCC LAYOUT  
1:20

CONSTRUCTION NOTES:

1. CONTRACTOR TO REPORT BACK THE LOCATION OF THE EXISTING UV REACTOR BREAKER, AND MARK UP AS-BUILTS ACCORDINGLY.
2. INSTALL NEW 60A BREAKERS IN THE EXISTING MCC'S SPARES FOR THE UV SYSTEM TRANSFORMERS TX-UV1 AND TX-UV2.
3. INFORMATION SHOWN AS EXISTING ON THIS DRAWING HAS NOT BEEN VERIFIED AND IS TAKEN FROM PREVIOUS AS-BUILT DRAWINGS. CONTRACTOR TO VERIFY AND REPORT VARIATIONS.



Notes:

.1 Refer to Drawing M04 for schedule of HVAC equipment and to Mechanical Specifications and Drawings for locations of mechanical equipment and additional load information. Provide circuit breakers for each unit of mechanical equipment and circuit from nearest Lighting and General Power panel. Do not circuit HVAC equipment from Process Power panels.

.2 Provide, in Panel P1, a 3-pole 70 A circuit breaker, with 4c #4 feeder to supply Main UPS mounted next to Panel UPS.

\* LABEL BREAKER "24-HOUR BREAKER, DO NOT TURN OFF."

PROVIDE CONTACTOR BY PANEL FOR SWITCHING ALL PLANT LIGHTING TO 1 SWITCH.

120 / 208 VAC -- THREE PHASE -- PANEL 'A'			
GENERATOR ROOM LIGHTS & EMERGENCY LIGHT	1	2	GENERATOR ROOM RECEPTACLES
	3	4	MEETING ROOM RECEPTACLES
MECHANICAL ROOM LIGHTS & EMERGENCY LIGHT	5	6	GENERATOR ROOM & ELECTRICAL ROOM RECEPTACLES
ELECTRICAL ROOM LIGHTS & EMERGENCY LIGHT	7	8	MECHANICAL ROOM & WASHROOM RECEPTACLES
LOWER WASHROOM LIGHT, STAIRWAY LIGHTS & EMERGENCY LIGHTS	9	10	HOT WATER HEATERS
WORKSHOP LIGHTS	11	12	WORKSHOP RECEPTACLES
WORKSHOP RECEPTACLES	13	14	DISHWASHER
WORKSHOP RECEPTACLES	15	16	REFRIGERATOR
GENSET BATTERY CHARGER	17	18	MICROWAVE
MEETING ROOM RECEPTACLES	19	20	CONTROL ROOM RECEPTACLES
MEETING ROOM RECEPTACLES	21	22	CONTROL ROOM RECEPTACLES
CONTROL ROOM POT LIGHTS	23	24	CONTROL ROOM RECEPTACLES
CONTROL ROOM LIGHTS	25	26	CONTROL ROOM RECEPTACLES
LABORATORY & UPPER WASHROOM LIGHTS	27	28	LABORATORY RECEPTACLES
MEETING ROOM LIGHTS	29	30	LABORATORY RECEPTACLES
MEETING ROOM RECEPTACLES	31	32	LABORATORY RECEPTACLES
MEETING ROOM RECEPTACLES	33	34	LABORATORY RECEPTACLES
GENERATOR ROOM TRANSFER FAN	35	36	UNIT HEATER UH-1
GENERATOR DAMPER CONTROLS	37	38	GENERATOR BLOCK HEATER
ELECTRICAL ROOM TRANSFER FAN	39	40	GENERATOR BLOCK HEATER
LABORATORY SAMPLE PUMPS	41	42	GENERATOR BLOCK HEATER

120 / 208 VAC -- THREE PHASE -- PANEL 'P1'			
FIT2-1-01 (RAW WATER FLOW METER)	1	2	LT2-1-01 (SPLITTER BOX LEVEL TRANSMITTER)
FIT3-1-01 (DIFFUSION FLOW METER)	3	4	LT2-1-02 (ALUM TANK LEVEL TRANSMITTER)
TM2-1-01, CM2-1-01 (RAW WATER TURBIDITY & COLOUR METER)	5	6	RCS-1-01 (CHLORINE RESIDUAL ANALYZER)
EFFLUENT INSTRUMENT SUPPLY WATER SAMPLE PUMP	7	8	PH5-1-01 (EFFLUENT PH)
PH2-1-01 (RAW WATER PH)	9	10	
	11	12	FIT5-1-02 (SERVICE WATER FLOW METER)
POLYMER FEED PUMP 1	13	14	
POLYMER FEED PUMP 2	15	16	
	17	18	
	19	20	
	21	22	
	23	24	
	25	26	
	27	28	
	29	30	
	31	32	
	33	34	
	35	36	
	37	38	
	39	40	UPS -- DO NOT TURN OFF
	41	42	UPS -- DO NOT TURN OFF

120 / 208 VAC -- THREE PHASE -- PANEL 'B'			
24HR LIGHTS, UPPER LEVEL & FILTER AREA EMERGENCY & EXIT LIGHTS	1	2	S, SW, & UPPER ENTRANCE EXTERIOR LIGHTS
FRONT FILTER AREA HIGH LIGHTS	3	4	FILTER AREA WALL LIGHTS
FILTER TANK LIGHTS	5	6	TRUCK BAY HIGH LIGHTS & SILO WALL LIGHTS
CEILING FANS	7	8	TRUCK BAY & SILO HIGH LIGHTS
TRUCK BAY HIGH LIGHTS	9	10	FLOCC. AREA LIGHTS
DAF LIGHTS	11	12	TRUCK BAY HIGH LIGHTS & ALUM TANK LIGHT
WALL EXHAUST FANS	13	14	NORTH BUILDING HIGH LIGHTS & WALL LIGHT
WALL EXHAUST FANS	15	16	UPPER ENTRANCE RECEPTACLE
FLOCC. AREA RECEPTACLE	17	18	
FLOCC. AREA EMERGENCY LIGHT	19	20	N, NW, & E EXTERIOR LIGHTS
LIGHTING CONTACTOR CONTROL (MAIN ENTRY LIGHT SWITCH)	21	22	
MAIN ENTRY RECEPTACLE	23	24	
	25	26	
	27	28	
	29	30	
	31	32	
	33	34	
	35	36	
	37	38	
	39	40	
	41	42	

120 / 208 VAC -- THREE PHASE -- PANEL 'P2'			
MV3-1-01 (FILTER 1 EFFLUENT VALVE)	1	2	MV3-3-01 (FILTER 3 EFFLUENT VALVE)
MV3-1-02 (FILTER 1 BACKWASH INLET VALVE)	3	4	MV3-3-02 (FILTER 3 BACKWASH INLET VALVE)
MV3-1-03 (FILTER 1 FILTER TO WASTE VALVE)	5	6	MV3-3-03 (FILTER 3 FILTER TO WASTE VALVE)
MV3-1-04 (FILTER 1 BACKWASH OUTLET VALVE)	7	8	MV3-3-04 (FILTER 3 BACKWASH OUTLET VALVE)
MV3-1-07 (FILTER 1 AIR SCOUR VALVE)	9	10	MV3-3-07 (FILTER 3 AIR SCOUR VALVE)
MV3-2-01 (FILTER 2 EFFLUENT VALVE)	11	12	MV3-4-01 (FILTER 4 EFFLUENT VALVE)
MV3-2-02 (FILTER 2 BACKWASH INLET VALVE)	13	14	MV3-4-02 (FILTER 4 BACKWASH INLET VALVE)
MV3-2-03 (FILTER 2 FILTER TO WASTE VALVE)	15	16	MV3-4-03 (FILTER 4 FILTER TO WASTE VALVE)
MV3-2-04 (FILTER 2 BACKWASH OUTLET VALVE)	17	18	MV3-4-04 (FILTER 4 BACKWASH OUTLET VALVE)
MV3-2-07 (FILTER 2 AIR SCOUR VALVE)	19	20	MV3-4-07 (FILTER 4 AIR SCOUR VALVE)
BLOWER ROOM TRANSFER AIR FAN EF-5	21	22	UNIT HEATER UH-3
COMPRESSOR AIR DRYER AND BLOW DOWN VALVE	23	24	UNIT HEATER UH-4
BLOWER ROOM LIGHTS & EMERGENCY LIGHT	25	26	SODA ASH SILO LIGHTS
BLOWER ROOM RECEPTACLE	27	28	SODA ASH SILO RECEPTACLE
	29	30	SODA ASH SILO EXHAUST FAN
	31	32	INFLUENT CHANNEL LIGHTS
	33	34	
	35	36	
	37	38	PANEL P2A
	39	40	PANEL P2A
	41	42	

120 / 240 VAC -- SINGLE PHASE -- PANEL 'UPS'			
CONTROL ROOM RECEPTACLES	1	2	LABORATORY RECEPTACLES
CONTROL ROOM RECEPTACLES	3	4	LABORATORY RECEPTACLES
CONTROL ROOM RECEPTACLES	5	6	SERVER RECEPTACLES
CONTROL ROOM RECEPTACLES	7	8	LABORATORY RECEPTACLES
LABORATORY RECEPTACLES	9	10	LABORATORY RECEPTACLES
LABORATORY RECEPTACLES	11	12	FIRE ALARM PANEL
	13	14	LABORATORY RECEPTACLES
	15	16	LABORATORY RECEPTACLES
	17	18	LCP-300 MAIN CONTROL PANEL
	19	20	LCP-301 FILTER CONSOLE
	21	22	SECURITY PANEL
	23	24	
	25	26	
	27	28	
	29	30	
	31	32	
	33	34	
	35	36	
	37	38	
	39	40	
	41	42	

120 / 240 VAC CONDITIONED -- SINGLE PHASE -- PANEL 'P2A'			
TM/PC3-5-01 (INFLUENT TURBIDITY & PARTICLE COUNT)	1	2	FIT3-1-01 (BACKWASH FLOW)
	3	4	FIT3-1-02 (MATURATION FLOW)
	5	6	PH5-1-01 (EFFLUENT PH)
TM/PC3-1-01 (FILTER 1 TURBIDITY & PARTICLE COUNT)	7	8	FIT5-1-01 (DISTRIBUTION FLOW)
TM/PC3-2-01 (FILTER 2 TURBIDITY & PARTICLE COUNT)	9	10	SODA ASH CONTROL PANEL (LEVEL SWITCH CONTROLS)
TM/PC3-3-01 (FILTER 3 TURBIDITY & PARTICLE COUNT)	11	12	SODA ASH CONTROL PANEL (DUST COLLECTOR CONTROLS)
TM/PC3-4-01 (FILTER 4 TURBIDITY & PARTICLE COUNT)	13	14	SODA ASH CONTROL PANEL (FEEDER 1 CONTROLS)
UVT MONITOR PANEL	15	16	SODA ASH CONTROL PANEL (FEEDER 2 CONTROLS)
FIT: FM3-1-04 (UV TOTAL FLOW)	17	18	FCV/FCZ: MV3-1-0X (UV1 FLOW ISOLATION)
FCV/FCZ: FM3-1-0X (UV2 FLOW ISOLATION)	19	20	
	21	22	
	23	24	
	25	26	
	27	28	
	29	30	
	31	32	
	33	34	
	35	36	
	37	38	
	39	40	
	41	42	

CONSTRUCTION NOTES:

- PROVIDE THREE (3) SINGLE POLE 15A CIRCUIT BREAKERS (CIRCUITS 15, 17 & 18 -- OR AS AVAILABLE), IN PANEL P2A FOR NEW EQUIPMENT.
- INFORMATION SHOWN AS EXISTING ON THIS DRAWING HAS NOT BEEN VERIFIED AND IS TAKEN FROM PREVIOUS AS-BUILT DRAWINGS. CONTRACTOR TO VERIFY AND REPORT VARIATIONS.



Stantec Consulting Ltd.  
500-4515 Central Blvd.  
Burnaby, BC V5H 0C6  
Tel: (604) 436-3014 • www.stantec.com

Copyright Reserved

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.  
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

Consultant

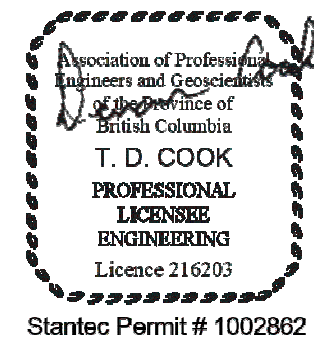
Notes

5 ISSUED FOR TENDER	MJL	DC	2024.03.28
4 ISSUED FOR BUILDING PERMIT	MJL	DC	2024.03.28
3 ISSUED FOR HEALTH PERMIT	MJL	DC	2024.03.27
2 ISSUED FOR 95% DESIGN	MJL	DC	2024.01.19
1 ISSUED FOR 90% DESIGN	MJL	DC	2023.10.20

Issued/Revision	By	Appd	YYYY.MM.DD
-----------------	----	------	------------

File Name: E-103.DWG	EGD	IB	DC	2022.09.26
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal



Stantec Permit # 1002862  
2024-04-11

Client/Project Logo

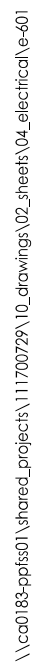
Client/Project  
SUNSHINE COAST REGIONAL DISTRICT

CHAPMAN WTP UV UPGRADE

Title  
ELECTRICAL  
PANEL SCHEDULE

Project No. 111700729	Scale NO SCALE
Revision	Drawing No. E-103





Copyright Reserved

The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.  
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

Consultant

[illegible]

6 ISSUED FOR TENDER	MJL	DC	2024.03.28
5 ISSUED FOR BUILDING PERMIT	MJL	DC	2024.03.28
4 ISSUED FOR HEALTH PERMIT	MJL	DC	2024.03.27
3 ISSUED FOR 95% DESIGN	MJL	DC	2024.01.19
2 ISSUED FOR 90% DESIGN	MJL	DC	2023.10.20
1 ISSUED FOR 50% DESIGN	IB	DC	2022.08.12

Issued/Revision	By	Appd	YYYY.MM.DD
-----------------	----	------	------------

File Name: E-601.DWG	EGD	IB	DC	2022.08.10
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal



Stantec Permit # 1002862  
2024-04-11

Client/Project Logo

Client/Project  
SUNSHINE COAST REGIONAL DISTRICT

CHAPMAN WTP UV UPGRADE

Title  
ELECTRICAL  
SINGLE LINE DIAGRAM

Project No. 111700729	Scale NO SCALE
Revision	Drawing No. <b>5</b> / 01

# E-601







Notes

LEGEND

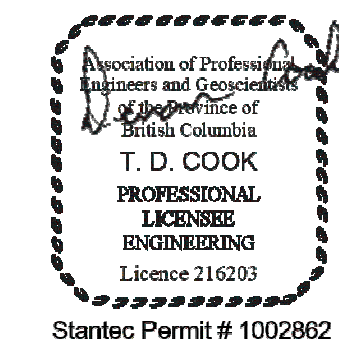
 DEMOLITION

5 ISSUED FOR TENDER	MJL	DC	2024.03.28
4 ISSUED FOR BUILDING PERMIT	MJL	DC	2024.03.28
3 ISSUED FOR HEALTH PERMIT	MJL	DC	2024.03.27
2 ISSUED FOR 95% DESIGN	MJL	DC	2024.01.19
1 ISSUED FOR 90% DESIGN	MJL	DC	2023.10.20

Issued/Revision By Appd YYYY.MM.DD

File Name: ED-101.DWG	EGD	MJC	DC	2023.10.13
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal



Client/Project Logo

Client/Project  
SUNSHINE COAST REGIONAL DISTRICT

CHAPMAN WTP UV UPGRADE

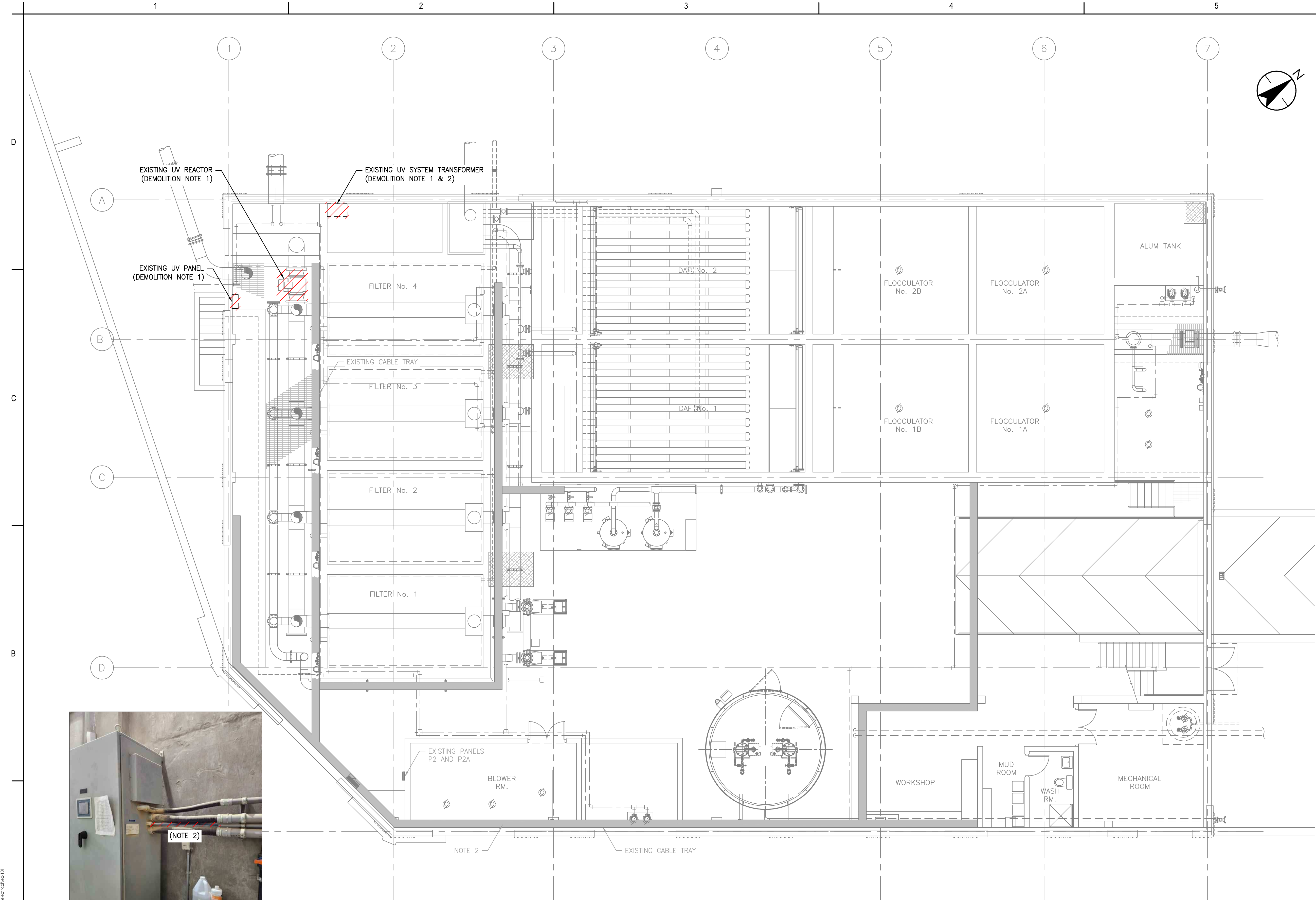
Title

**ELECTRICAL  
MAIN FLOOR - POWER PLAN  
DEMOLITION**

Project No. 111700729 Scale 1:75

Revision Drawing No.

**ED-101**



**A1**  
PHOTO 1  
N.T.S.

**1**  
MAIN PLAN  
1:75

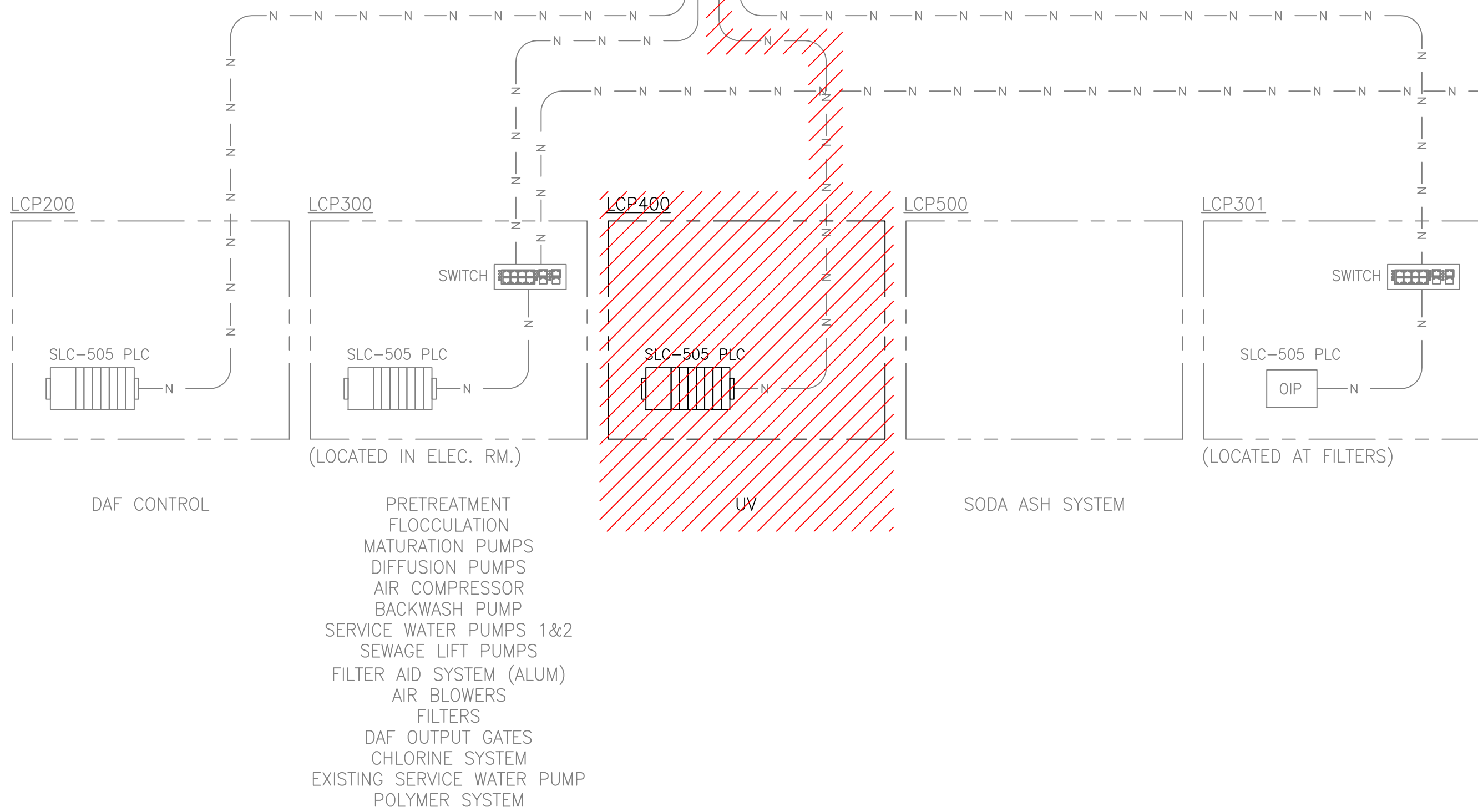
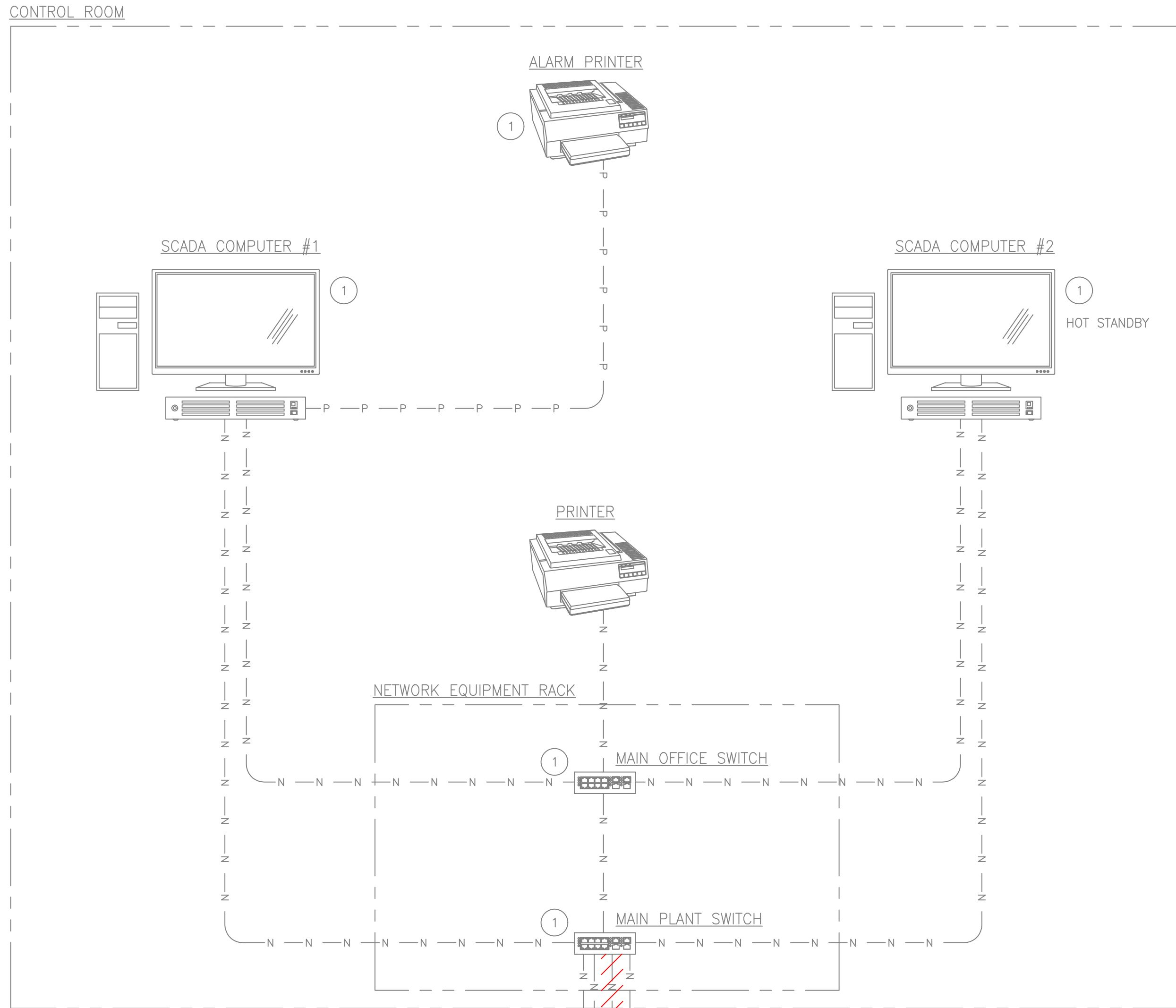
DEMOLITION NOTES:

- CONTRACTOR TO ENSURE ALL ELECTRICAL EQUIPMENT IS DE-ENERGIZED BEFORE DISCONNECTION AND REMOVAL OF ANY EQUIPMENT. COORDINATE THE TIMING OF REMOVAL WITH THE OPERATIONS STAFF. PLANT OPERATIONS STAFF WILL PROVIDE SAFE SHUTDOWN PROCEDURE PRIOR TO REMOVAL. CONTRACTOR TO CONFIRM THE REMOVAL AND DISPOSAL EXTENT OF THE EXISTING UV REACTOR & PANEL, TRANSFORMER AND CABLES WITH THE OWNER.
- DISCONNECT THE BLUE CABLE SHOWN IN PHOTO 1 FROM THE EXISTING UV CONTROL PANEL. NEATLY WRAPPED UP THE CABLE AND LEAVE IN PLACE AS A SPARE. CONTRACTOR TO CONFIRM WITH OWNER THAT THE FINAL POSITION IS SUITABLE.









- LEGEND:
- HMIL - HUMAN-MACHINE INTERFACE RELATED TO LOCAL PROCESS
  - HMIP - HUMAN-MACHINE INTERFACE RELATED TO PLANT-WIDE PROCESS
  - ① - EQUIPMENT CONNECTED TO THE PANEL ROOM UPS
  - F/C - FIBER-COPPER ETHERNET
  - ERM - ETHERNET 900MHZ LICENSE FREE RADIO MODEM
  - \* - SEPARATELY SUPPLIED "PACKAGE EQUIPMENT"

- CABLE TYPES:
- C —C —C — 1PR. COPPER TELEPHONE LINE
  - N —N —N — ETHERNET CAT5e
  - P —P —P — PRINTER CABLE

- NOTES:
1. PRIMARY SCADA SERVER WILL INCLUDE INTELLUTION iFIX DEVELOPMENT AND RUNTIME.
  2. REFER TO SPECIFICATION FOR SCOPE OF WORK FOR COMPUTER AND NETWORK EQUIPMENT INSTALLATION AND CONNECTION.



Stantec Consulting Ltd.  
500-4515 Central Blvd.  
Burnaby, BC V5H 0C6  
Tel: (604) 436-3014 • www.stantec.com

Copyright Reserved  
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.  
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

Consultant

Notes

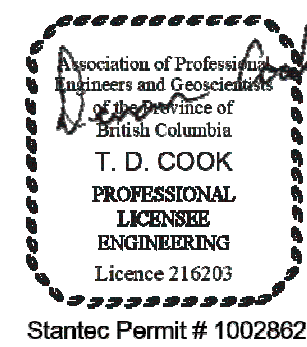
LEGEND  
DEMOLITION

5 ISSUED FOR TENDER	MJL	DC	2024.03.28
4 ISSUED FOR BUILDING PERMIT	MJL	DC	2024.03.28
3 ISSUED FOR HEALTH PERMIT	MJL	DC	2024.03.27
2 ISSUED FOR 95% DESIGN	MJL	DC	2024.01.19
1 ISSUED FOR 90% DESIGN	MJL	DC	2023.10.20

Issued/Revision By Appd YYYY.MM.DD

File Name: ED-602.DWG	EGD	IB	DC	2022.08.10
	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal



Client/Project Logo

Client/Project  
SUNSHINE COAST REGIONAL DISTRICT

CHAPMAN WTP UV UPGRADE

Title  
ELECTRICAL  
CONTROL SYSTEM NETWORK  
AND LEGEND - DEMOLITION

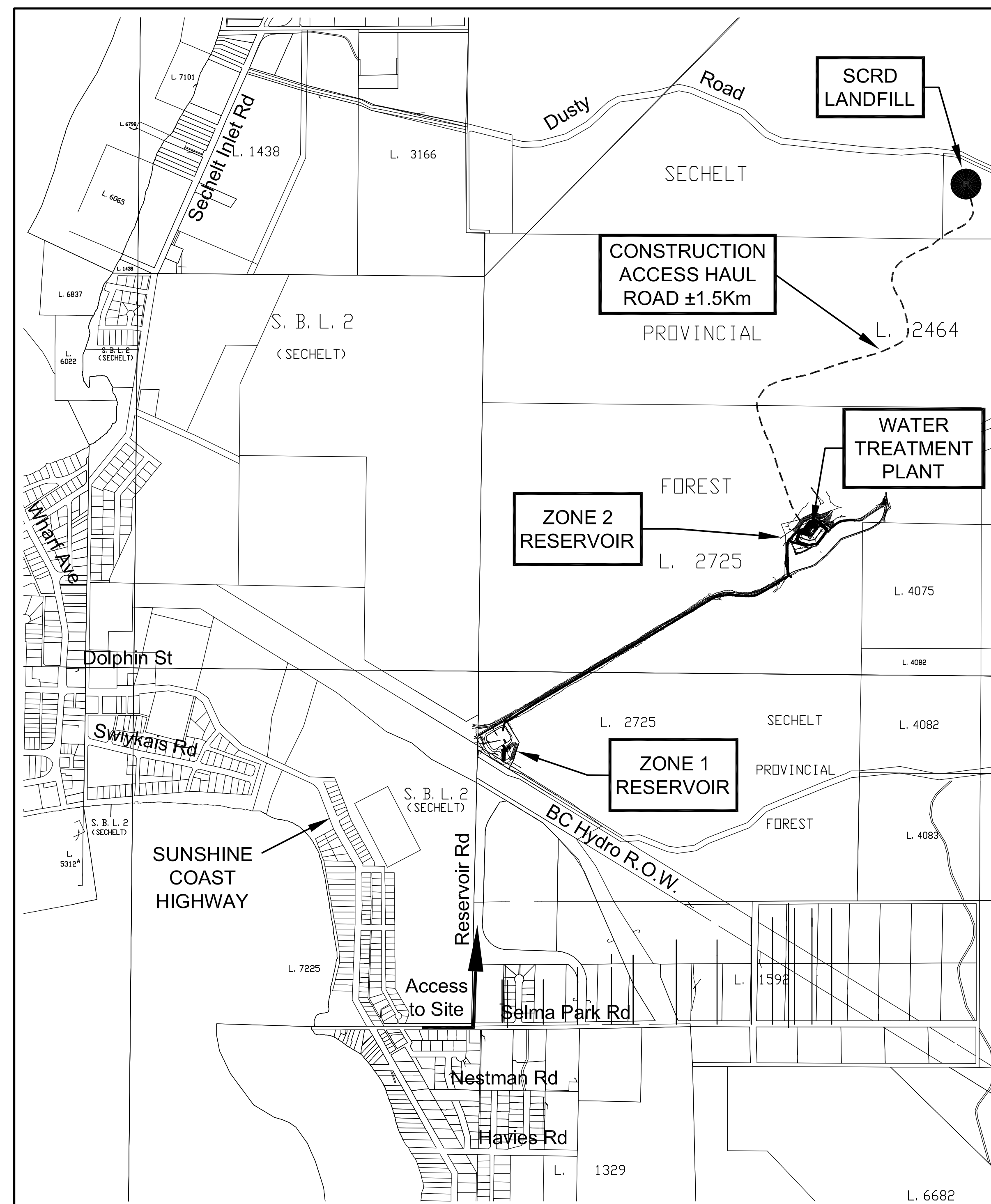
Project No. 111700729	Scale NO SCALE
Revision	Drawing No.

ED-602



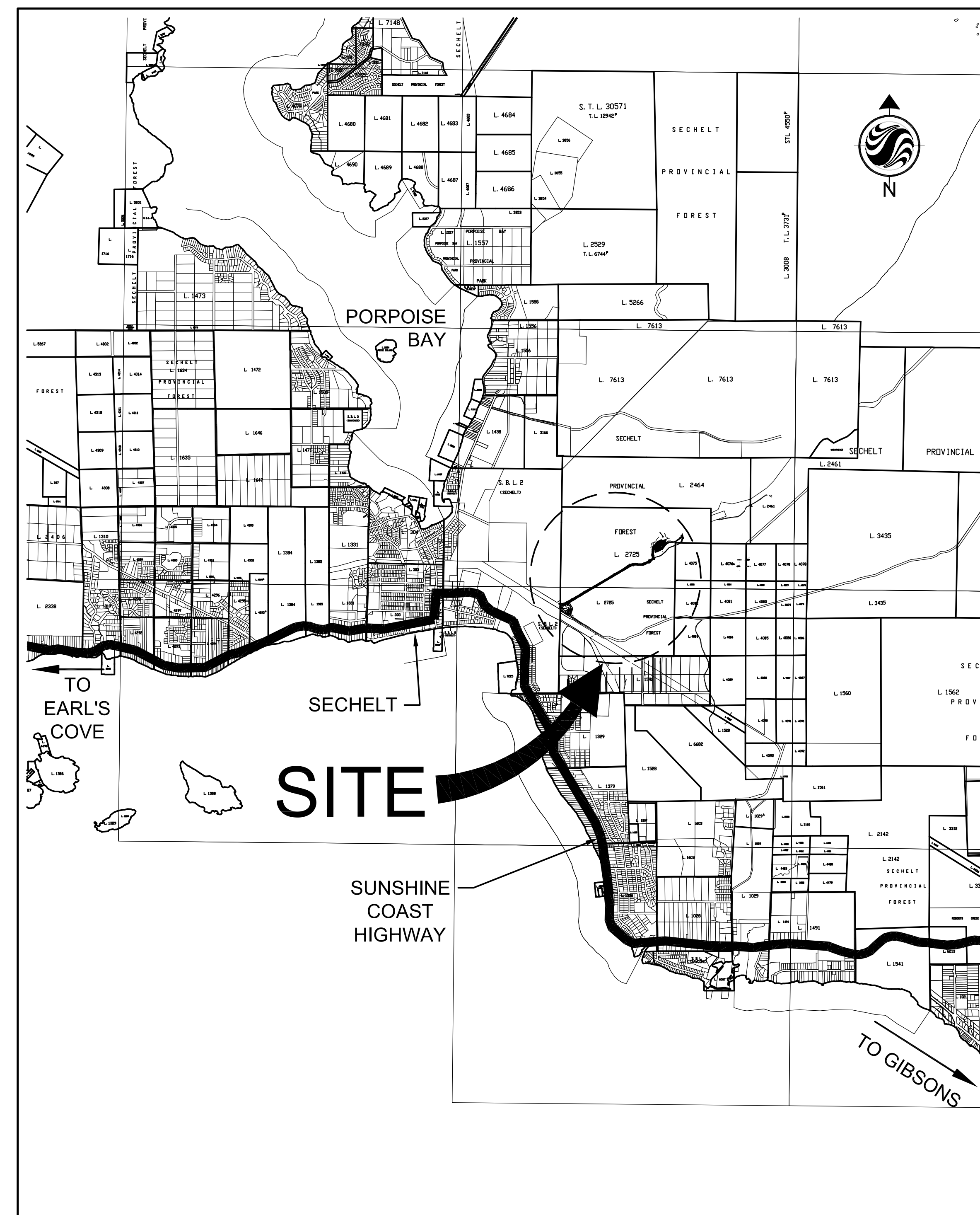


# SUNSHINE COAST REGIONAL DISTRICT CHAPMAN CREEK WATER TREATMENT PLANT



LOCATION PLAN

SCALE: 1:10,000 MTS.



KEY PLAN

SCALE: NTS

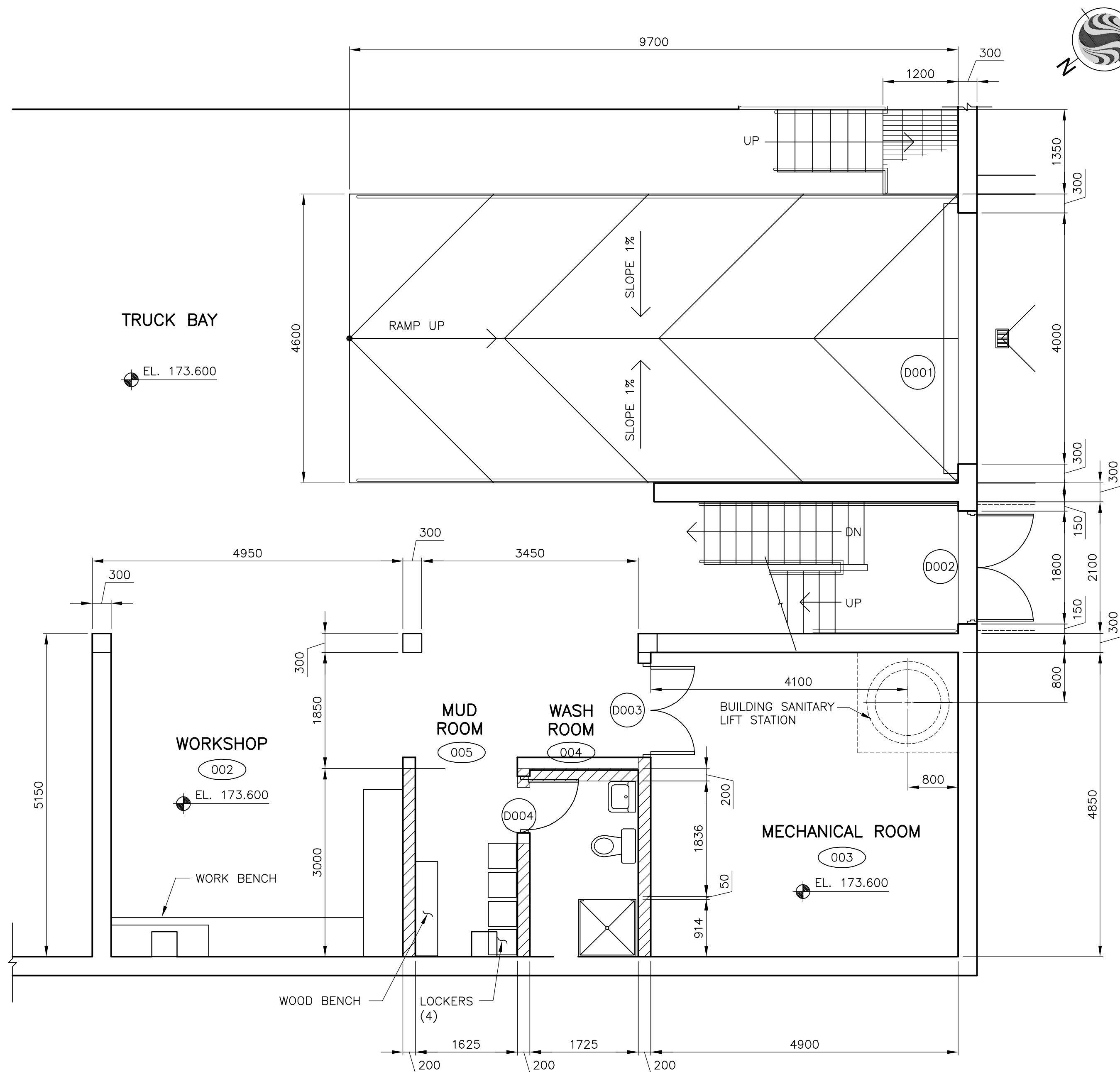


Stantec

Stantec Consulting Ltd.  
#1007, 7445 -132nd Street  
Surrey BC Canada V3W 1J8  
Tel: (604) 597-0422  
Fax: (604) 591-1856  
email: [surrey@stantec.com](mailto:surrey@stantec.com)  
[www.stantec.com](http://www.stantec.com)

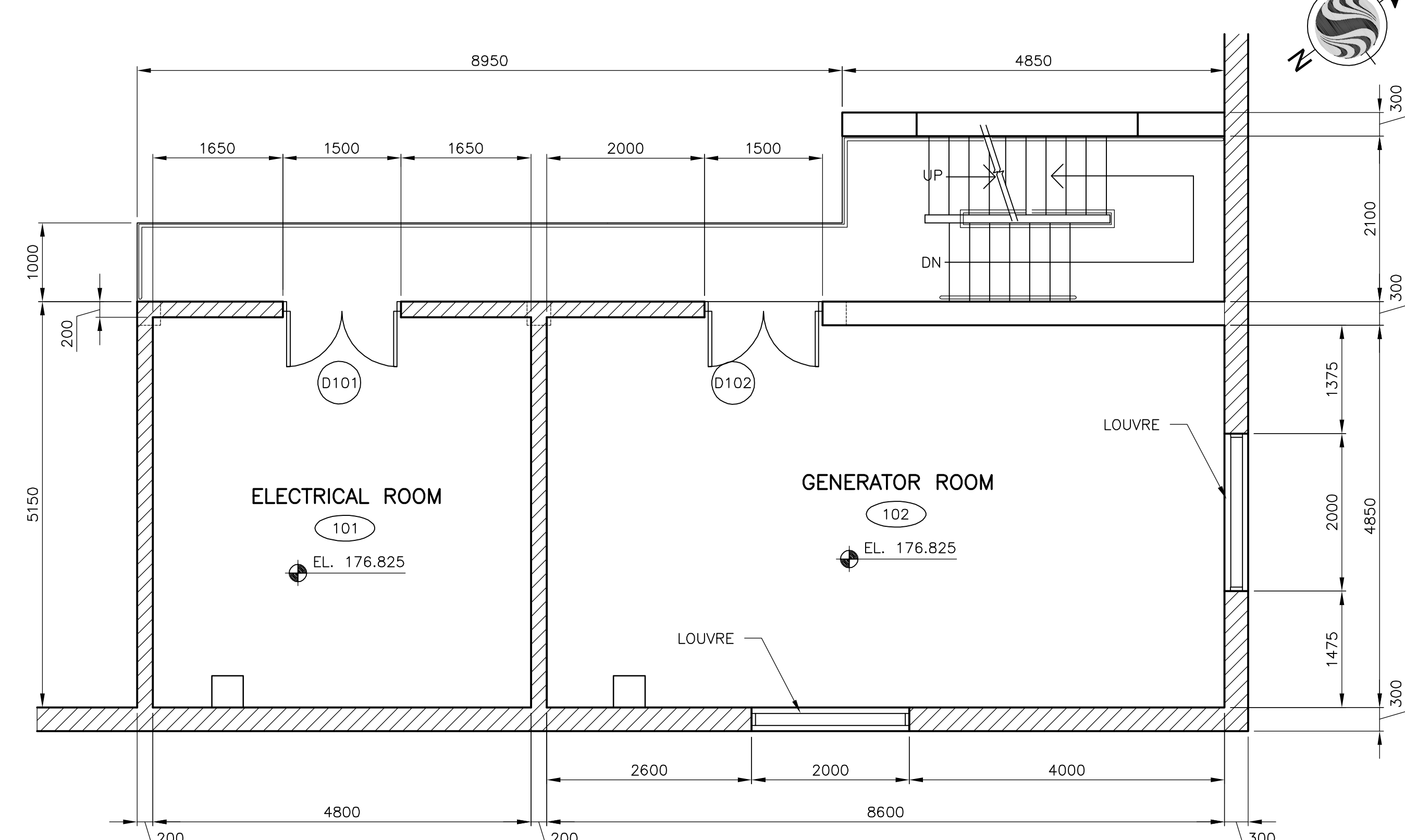
JOB No: 117-43200  
AS CONSTRUCTED - FEB 2002  
**FOR REFERENCE ONLY**





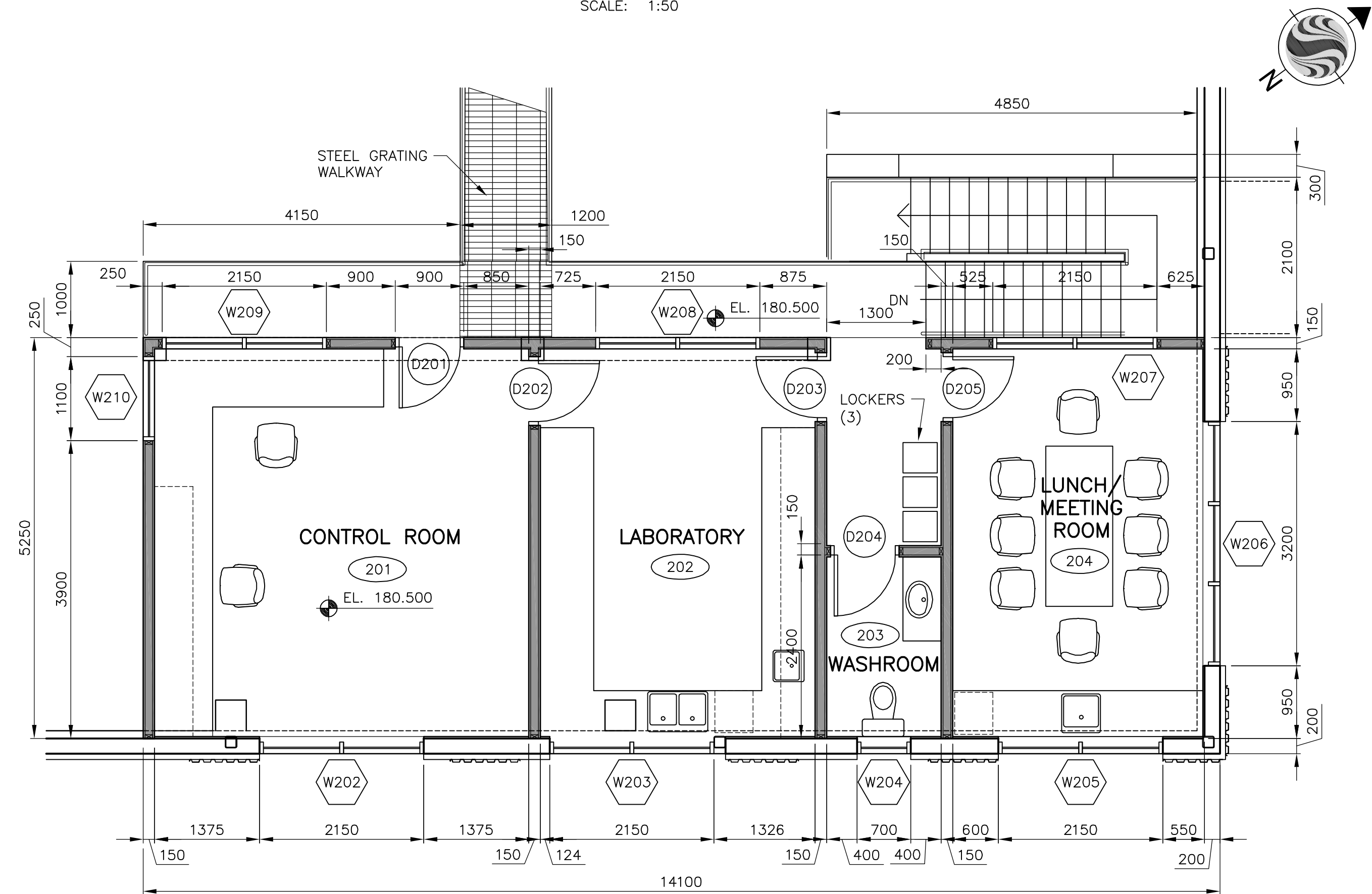
**BASEMENT FLOOR PLAN**

SCALE: 1:50



**MEZZANINE FLOOR PLAN**

SCALE: 1:50



**UPPER FLOOR PLAN**

SCALE: 1:50

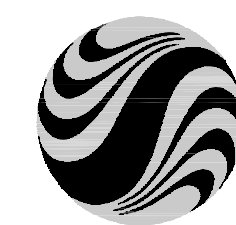
**FOR REFERENCE ONLY**

Xrefs: SECHLT\_bldg.dwg;  
Drawing: V:\117\ACTIVE\11743200\DRAWINGS\ASBUILT\ASBUILT\_MAY2006\_FINAL\174320A002.DWG  
December 20, 2006 3:46 pm

					6	MICROFILMED		
					5	PLAN OF RECORD	05.05.30	RAF
					4	APPROVAL FOR CONSTRUCTION	02.12.04	RAF
					3	FOR TENDER	02.10.10	RAF
					2	FOR APPROVAL		
					1	PRELIMINARY		
No.	DATE	DESCRIPTION	BY	APPROVED	No.	DESCRIPTION	DATE	APPROVED
REVISIONS					DRAWING STATUS			

AS--CONSTRUCTED DETAILS PRESENTED ON THIS DRAWING ARE BASED ON INFORMATION PROVIDED BY THE CONTRACTOR. NASON CONTRACTING

SEAL:



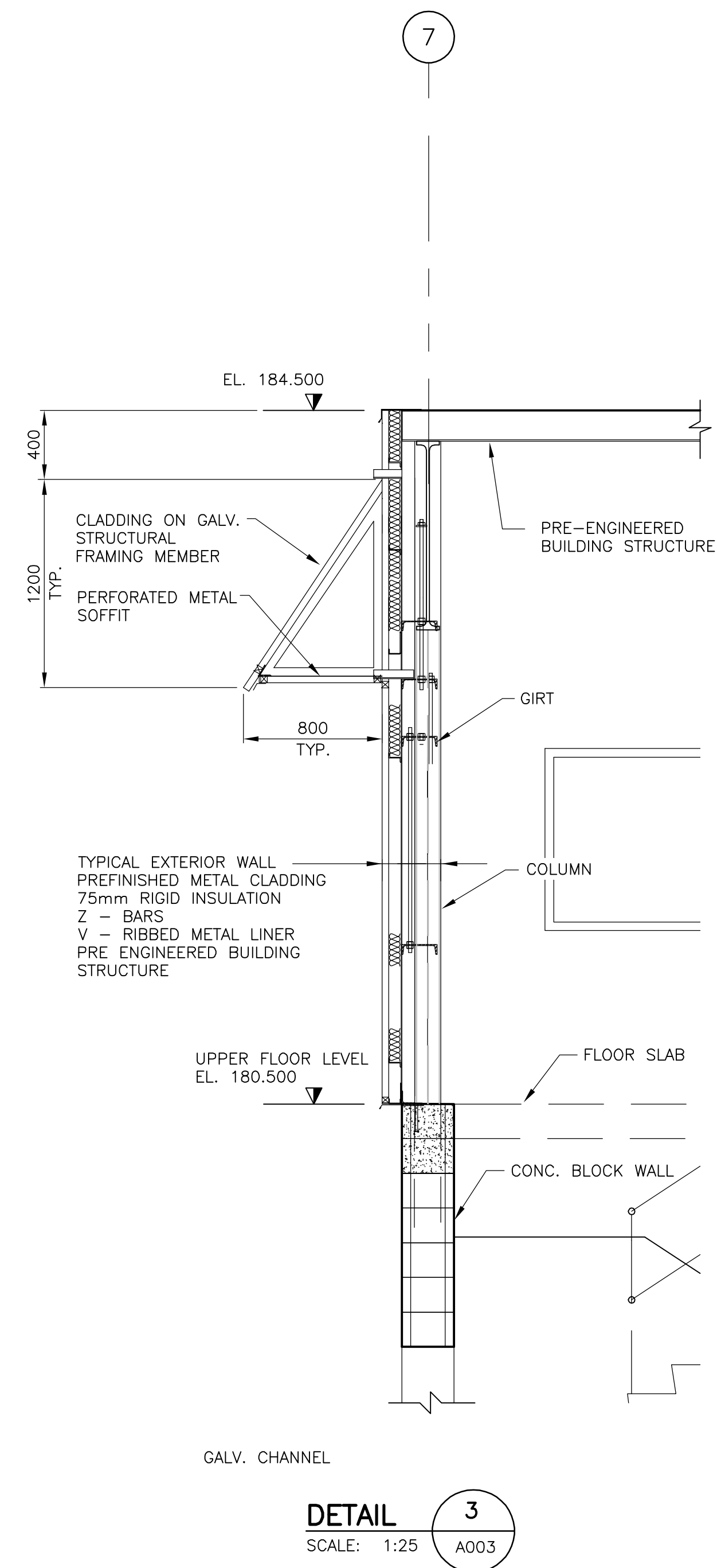
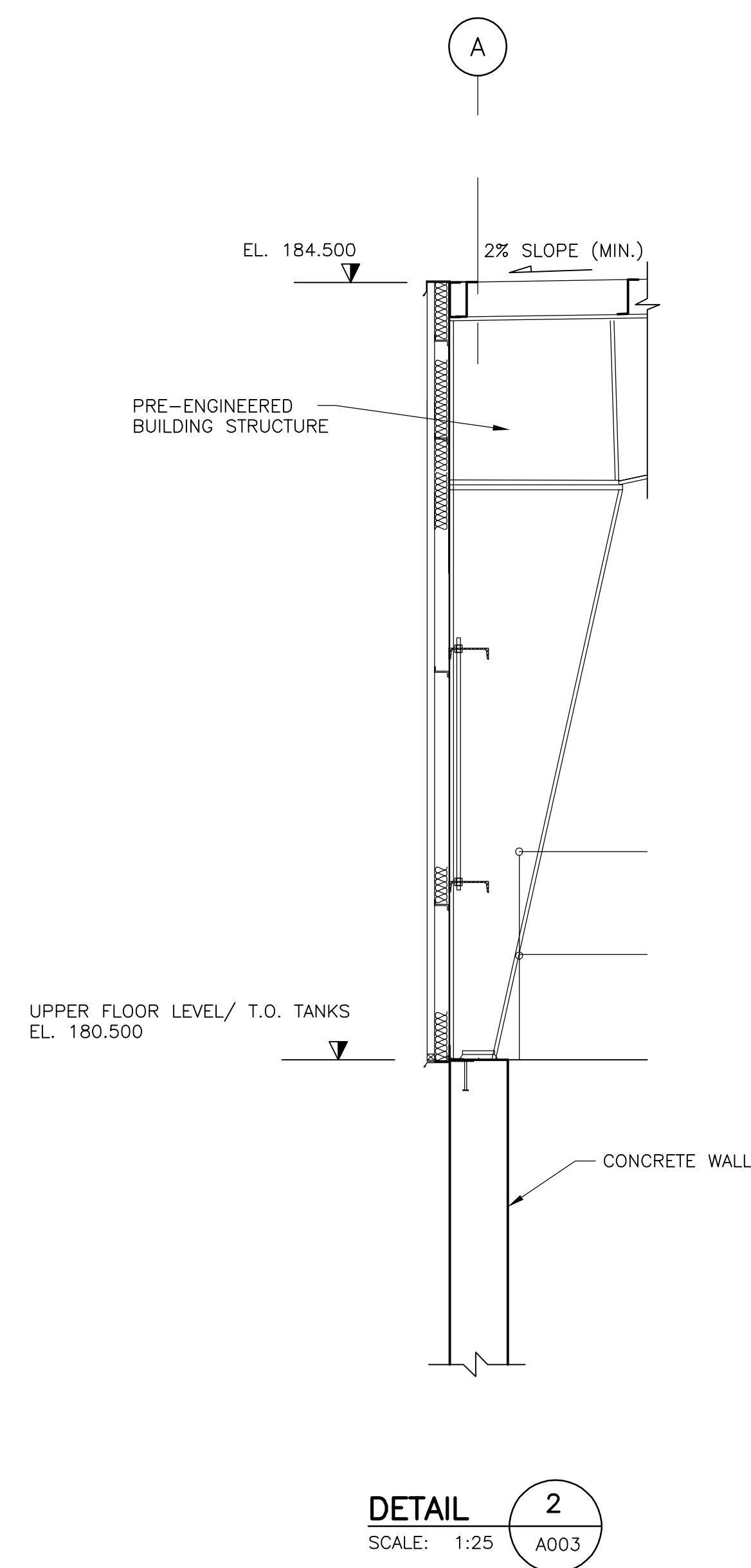
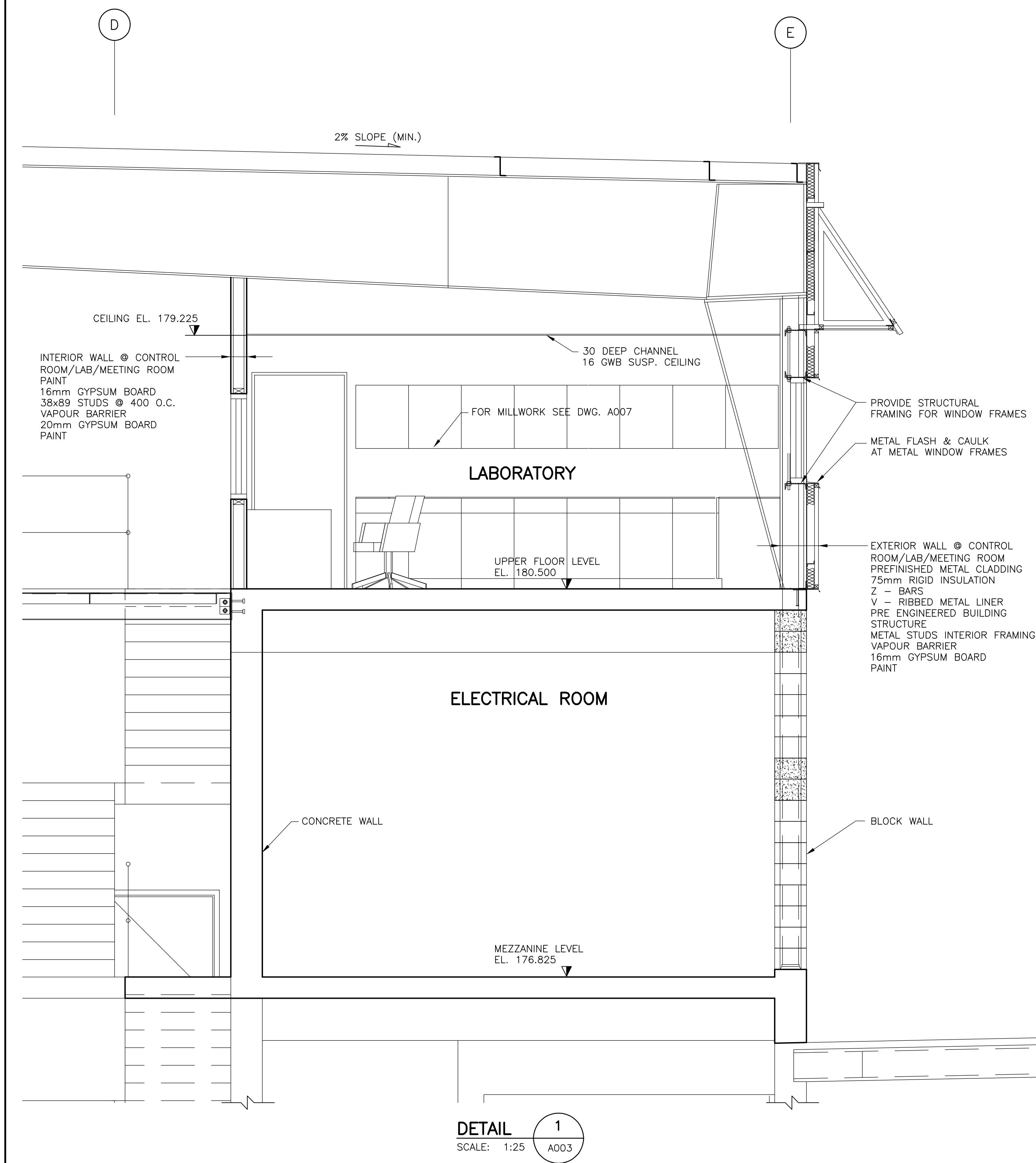
**Stantec**

Stantec Consulting Ltd.  
1007 - 7445 - 132 Street  
Surrey BC Canada V3W 1J8  
Tel: (604) 597-0422  
Fax: (604) 591-1856  
email: [surrey@stantec.com](mailto:surrey@stantec.com)  
[www.stantec.com](http://www.stantec.com)

DESIGNED: <b>MC</b>	DRAWN: <b>ESD</b>	CLIENT: <b>SUNSHINE COAST REGIONAL DISTRICT</b>	DATE: <b>Sept 2002</b>	SHEET:
CHECKED: <b>RAF</b>	APPROVED: <b>RAF</b>	TITLE: <b>CHAPMAN CREEK WATER TREATMENT PLANT FLOOR PLANS</b>	JOB No. <b>117-43200</b>	
SCALE: <b>1:50</b>			REVISION: <b>5</b>	DRAWING: <b>A002</b>
			STATUS:	

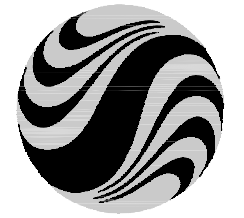


Xref: BLDG\_SECT.DWG;  
Drawing: V:\117\ACTIVE\11743200\DRAWINGS\ASBUILT\ASBUILT\_MAY2006\_FINAL\17432006A.DWG  
December 20, 2006 8:45 am



NOTE:  
REFER TO VP BUILDINGS SHOP  
DRAWINGS FOR PRE-ENGINEERED  
BUILDING LAYOUT AND DETAILS

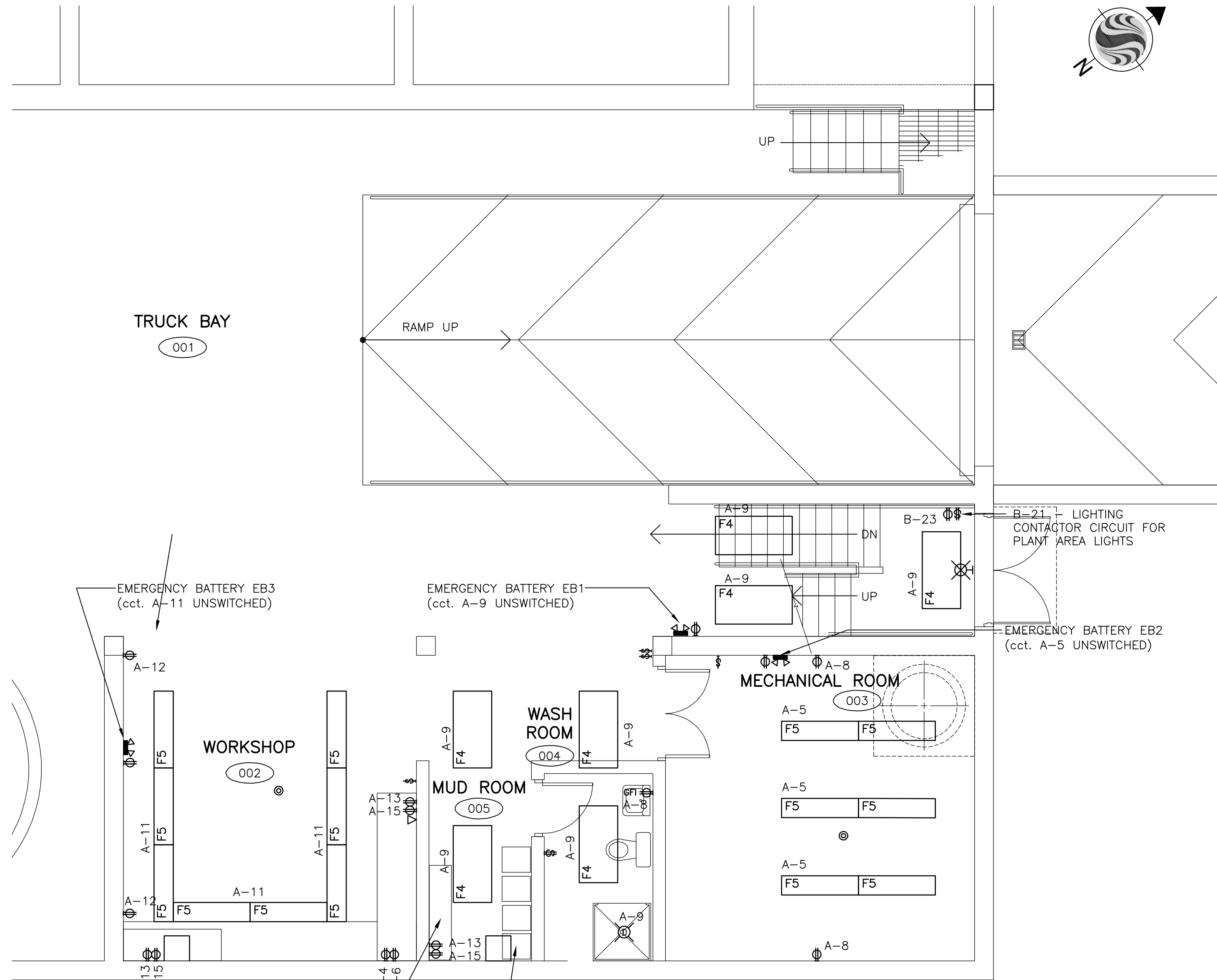
FOR REFERENCE ONLY

					6	MICROFILMED			AS--CONSTRUCTED DETAILS PRESENTED ON THIS DRAWING ARE BASED ON INFORMATION PROVIDED BY THE CONTRACTOR. <u>NASON CONTRACTING</u>	SEAL:	 Stantec	DESIGNED: MC		DRAWN: RCF		CLIENT: SUNSHINE COAST REGIONAL DISTRICT		DATE: Sept 2002	SHEET:
					5	PLAN OF RECORD	05.05.30	RAF				CHECKED: PP		APPROVED: RAF		TITLE: CHAPMAN CREEK WATER TREATMENT PLANT BAY SECTIONS		JOB No. 117-43200	
					4	APPROVAL FOR CONSTRUCTION	02.12.04	RAF				SCALE: N.T.S.							
					3	FOR TENDER	02.10.10	RAF											
					2	FOR APPROVAL													
					1	PRELIMINARY													
No.	DATE	DESCRIPTION	BY	APPROVED	No.	DESCRIPTION	DATE	APPROVED											
REVISIONS					DRAWING STATUS														







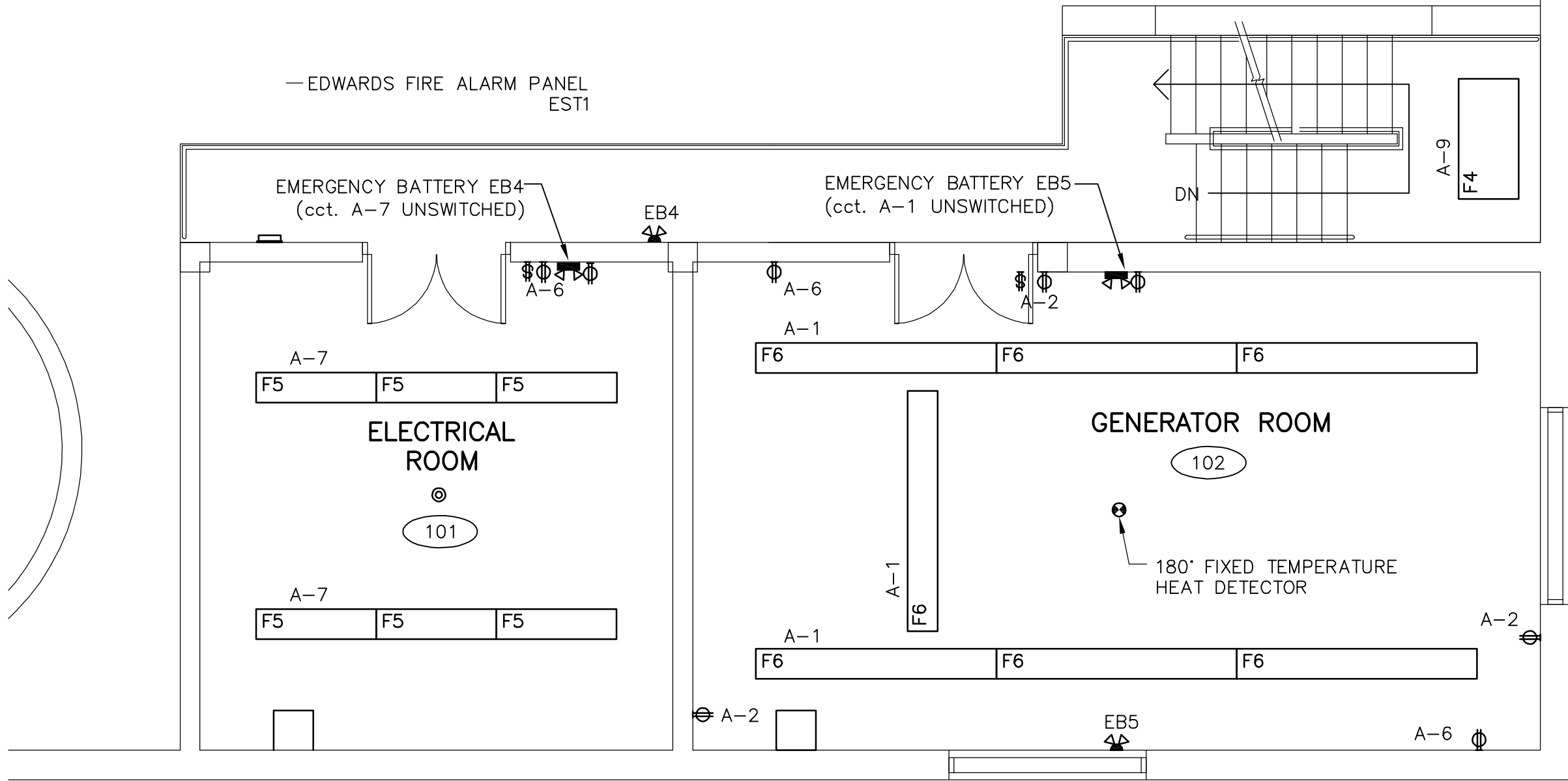


MAIN FLOOR PLAN  
SCALE: 1:50

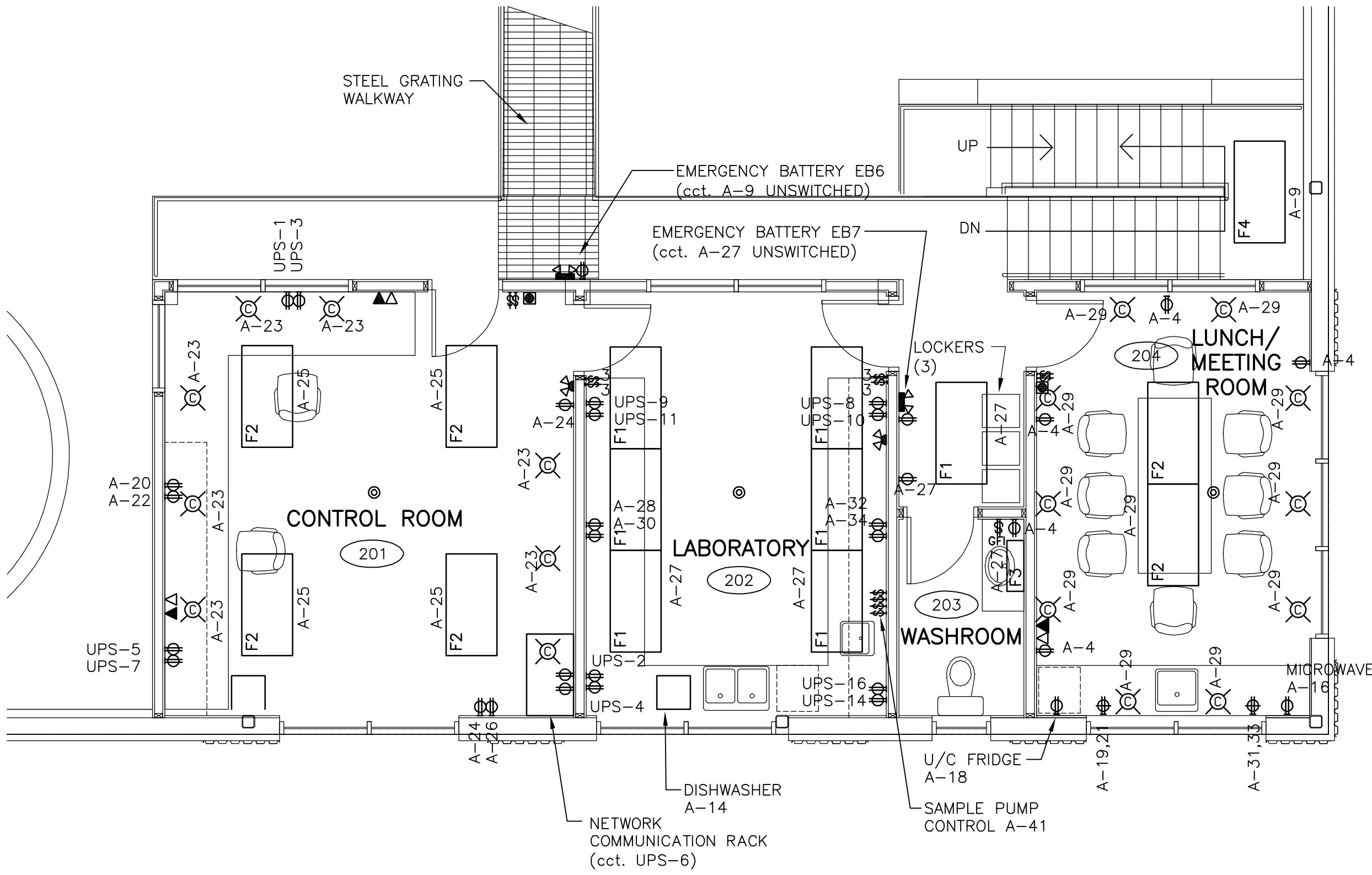
- NOTES:
- CIRCUIT WASHROOM FALLS TO SWITCH WITH WASHROOM LIGHTS
  - Line voltage switch at main entrance is to control lighting contactors to be provided adjacent to lighting panels, controlling all general area interior Plant lighting not specifically designated as "24 hour" lighting or not controlled by individual local switches.
  - Circuit Exit Signs A.C. and D.C. connections from nearest emergency lighting battery pack location.
  - Fire detectors in Control Room, Laboratory, Meeting Room and Electrical room are to be Ionization Smoke Detectors. Fire detectors in Mechanical Room and Workshop are to be 135 deg. F. Rate-of-rise detectors. Fire detector in Generator Room is to be 180 deg. Fixed Temperature detector. Connect detectors as separate zones to the fire alarm panel in the electrical room using conduit and type FAS cable.
  - Refer to mechanical drawings for locations of washroom fans.
  - Provide a complete intrusion alarm system, consisting of an alarm control panel with minimum six zones, backup battery and autodialer, mounted in the electrical room with dry contact output connected to LCP300, a keypad mounted immediately inside the main entry door and a second keypad at the filter entry door, door contacts on each of the building exterior doors and passive infrared detectors mounted in each of the Control, Laboratory, Meeting, Electrical, Generator, Mechanical and Workshop Rooms along with four (4) infrared detectors within the Process Area and a 5 watt electronic siren mounted on the wall of the Electrical Room, outside the room immediately beside the door. Conduits for the system are to be EMT concealed in walls and ceiling spaces except that in the main Plant area. Conduits run on ceiling may be surface mounted. Test and verify the system and demonstrate proper operation in the presence of the Owner and the Engineer. System shall be also be wired to the SCADA system as required.
  - Provide an antenna mast consisting of one 53mm GRS conduit extending from a 150 x 150 mm backbox in the wall of the electrical room up and through the roof to a weatherhead 1 meter above the roof. Provide flashing and sealing at the roof penetration. Provide a mounting location for the Owner supplied Remote Terminal Unit Radio (RTU) next to the bottom of the antenna mast, a 120 VAC 15 Amp circuit from Panel P1 to the RTU location and a 27mm conduit with 20c #18 jacketed communication cable from LCP300 to the RTU. Assist the Owner with relocation of the RTU and antenna from the existing Chlorine Building to the Electrical Room.
  - Provide wiring for dishwasher in Laboratory from Panel A.
  - Both washroom fans shall be switched to the light switches within each room.

LEGEND:

001 ROOM No.



MEZZANINE FLOOR PLAN  
SCALE: 1:50



UPPER FLOOR PLAN  
SCALE: 1:50

FOR REFERENCE ONLY

Xref: SECHLT\_bldg.DWG;  
Drawing: V:\117\ACTIVE\11743200\DRAWINGS\ASBULT\ASBULT\_MAY2006\_FINAL\17432005.DWG  
Revision: 21, 2006 8:49 am

No.	DATE	DESCRIPTION	BY	APPROVED	No.	DESCRIPTION	DATE	APPROVED
2	09.02.06	NCGL RECORD DRAWING	LJS	BA	6	MICROFILMED		
1	05.07.22	AS--CONSTRUCTED	JM		5	PLAN OF RECORD	05.05.30	RAF
					4	APPROVAL FOR CONSTRUCTION	02.12.02	RAF
					3	FOR TENDER	02.10.10	RAF
					2	FOR APPROVAL		
					1	PRELIMINARY		
REVISIONS					DRAWING STATUS			

AS--CONSTRUCTED DETAILS PRESENTED ON THIS DRAWING ARE BASED ON INFORMATION PROVIDED BY THE CONTRACTOR. NASON CONTRACTING

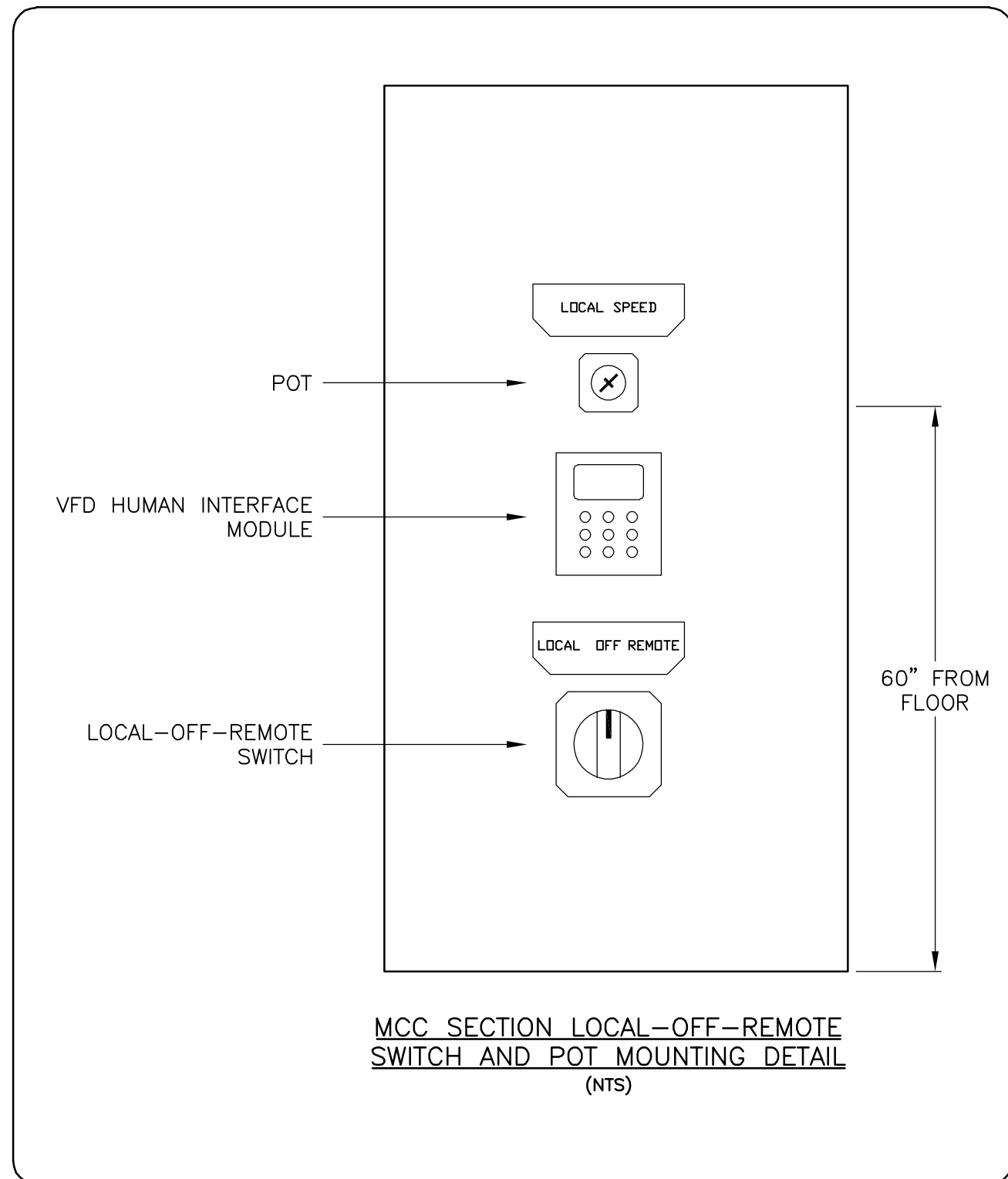
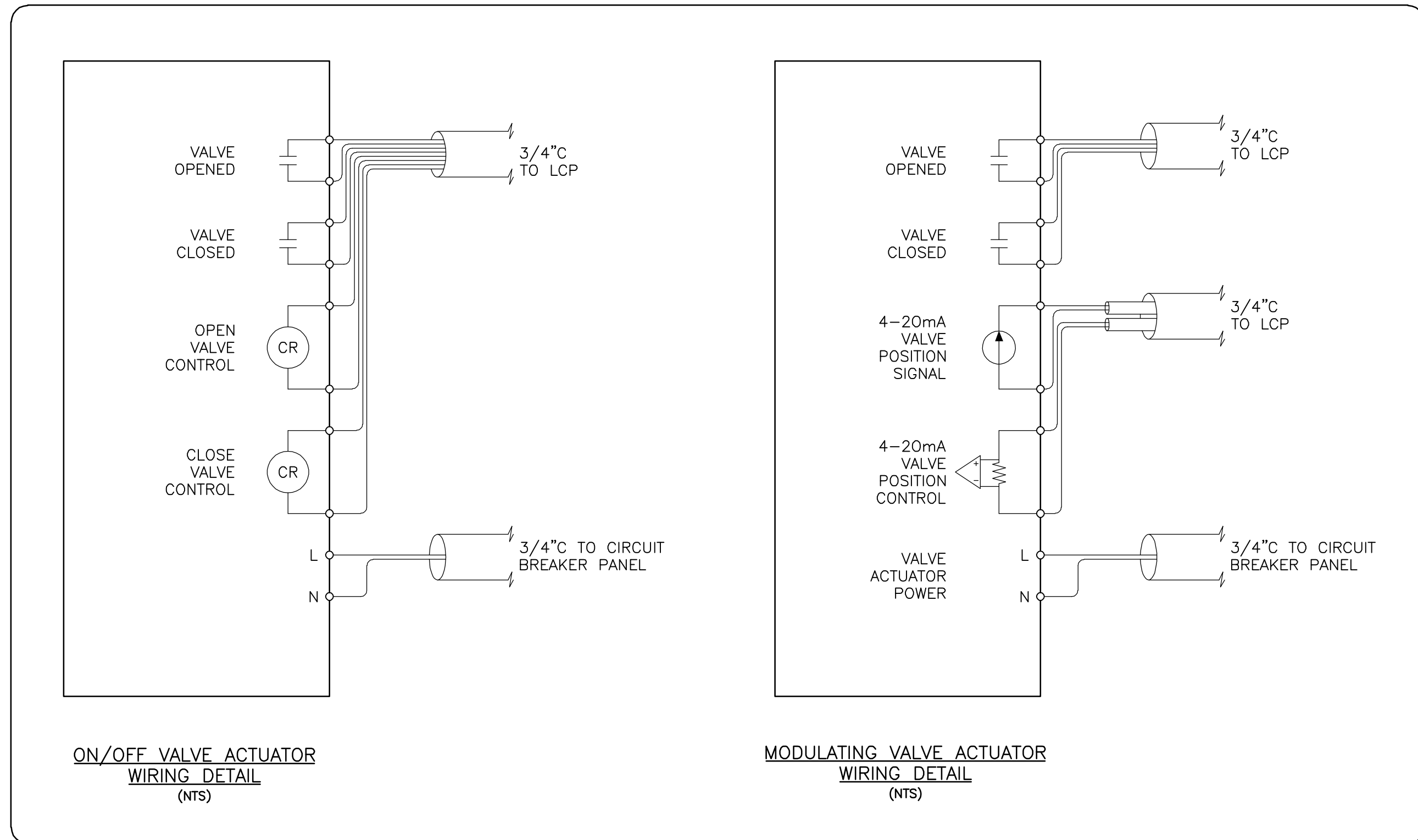
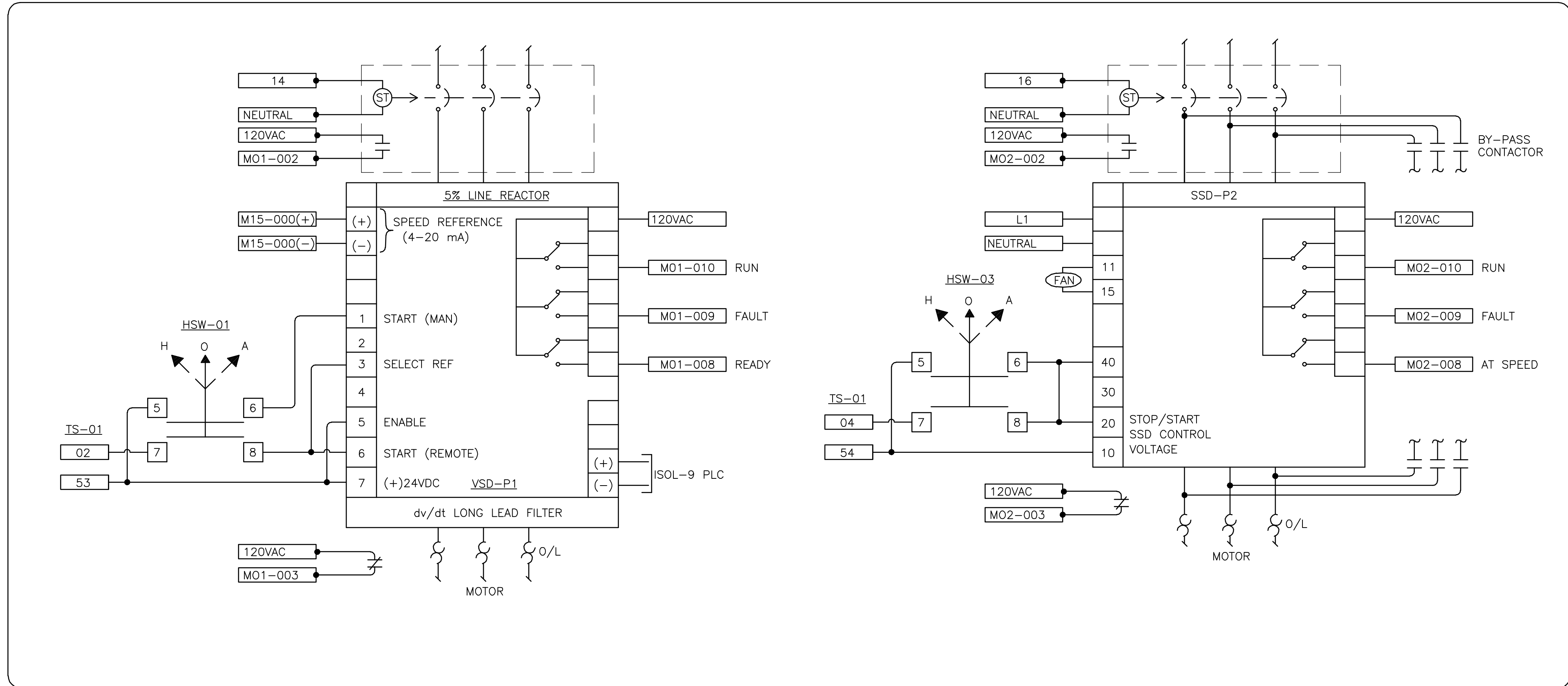
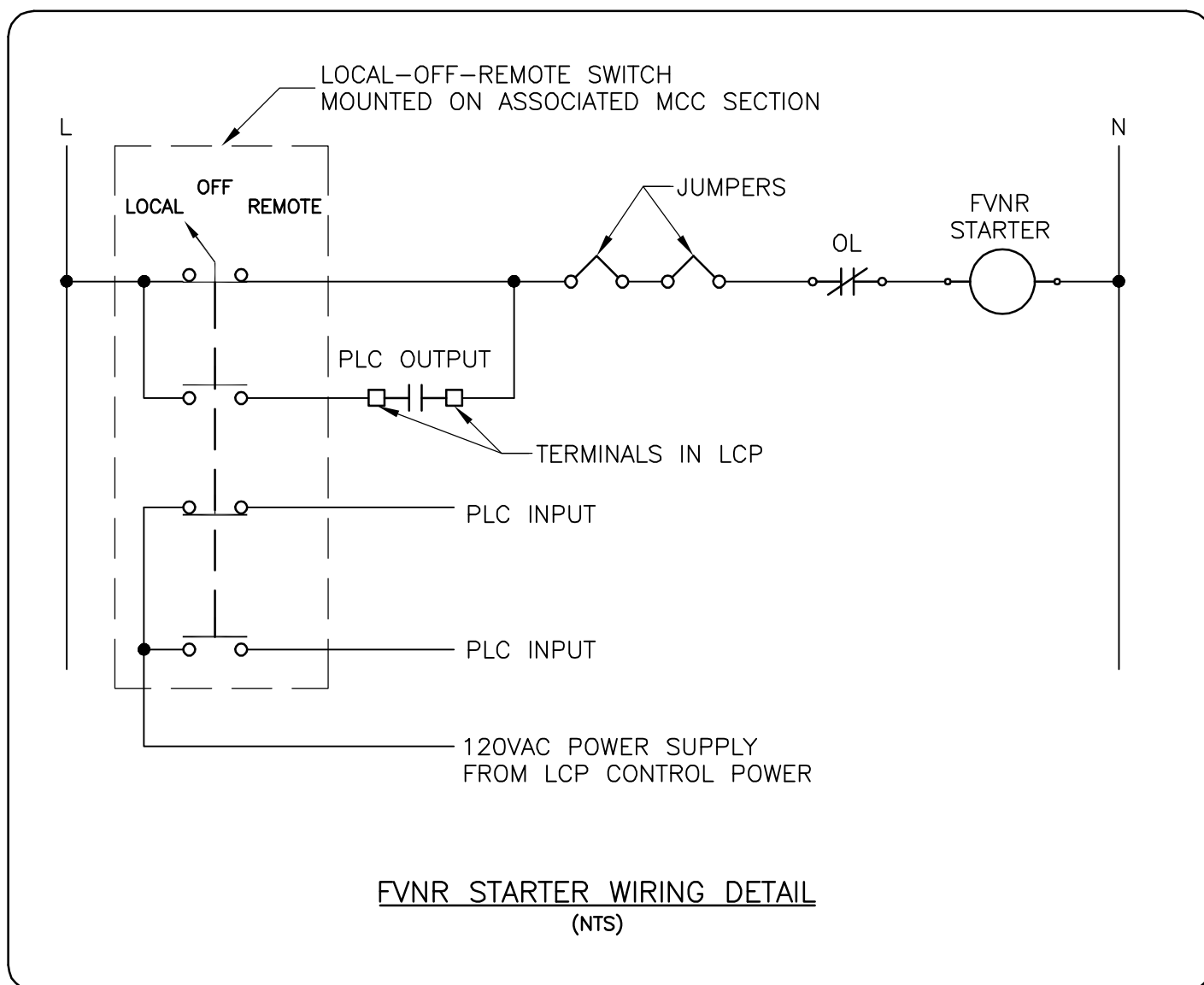
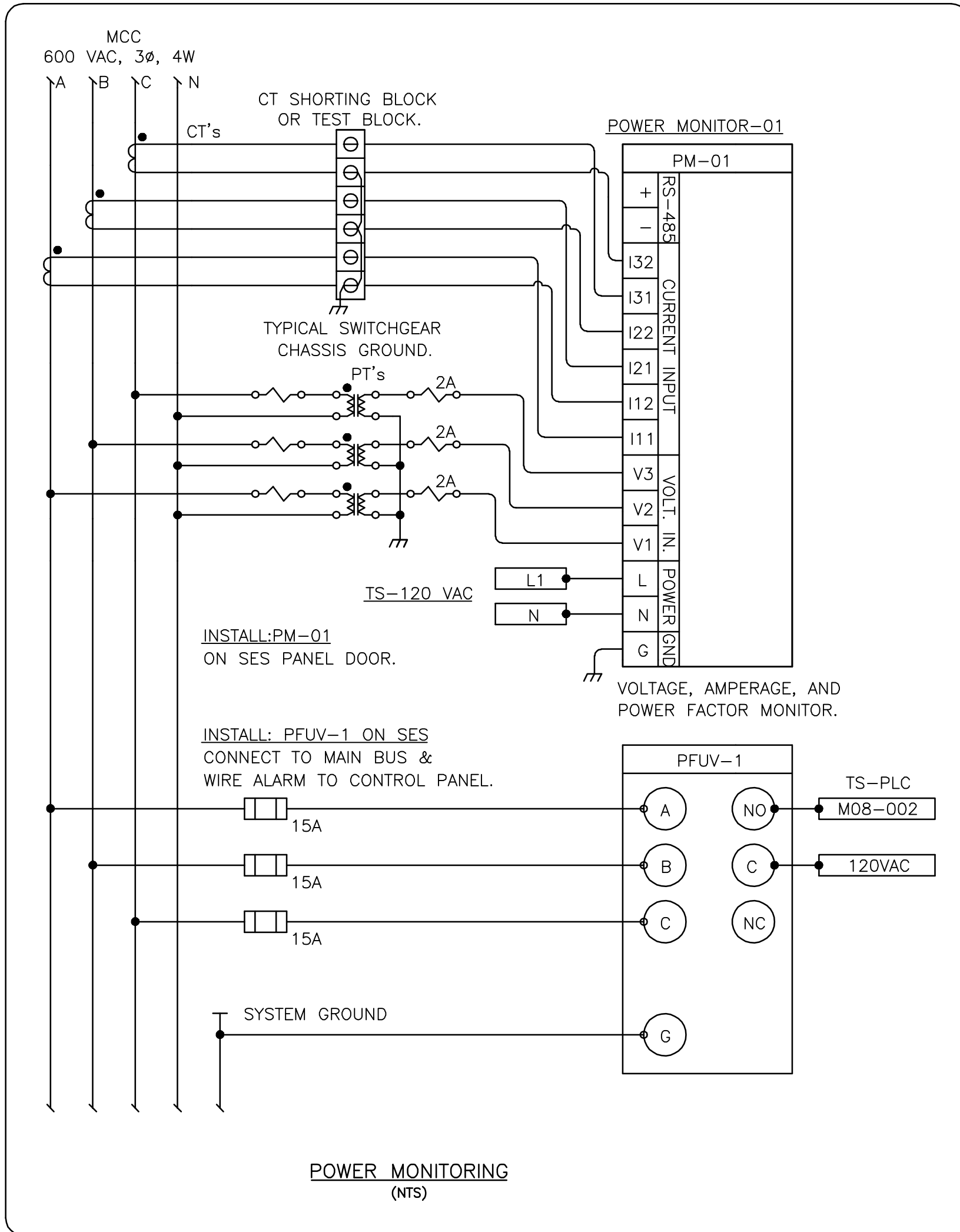
SEAL:



Stantec Consulting Ltd.  
1007 - 7445 - 132 Street  
Surrey BC Canada V3W 1J8  
Tel: (604) 597-0422  
Fax: (604) 591-1856  
email: [surrey@stantec.com](mailto:surrey@stantec.com)  
[www.stantec.com](http://www.stantec.com)


DESIGNED: PB	DRAWN: WAE	CLIENT: SUNSHINE COAST REGIONAL DISTRICT	DATE: Sept 2002	SHEET:
CHECKED: MC	APPROVED: PB	TITLE: CHAPMAN CREEK WATER TREATMENT PLANT LIGHTING AND POWER DETAILS	JOB No. 117-43200	
SCALE: 1:50			REVISION: 2 5 STATUS:	DRAWING: E005





**FOR REFERENCE ONLY**

Drawing: V:\117\ACTIVE\11743200\DRAWINGS\ASBUILT\MAY2006\_FINAL\174320014.DWG  
 Date: 2006-05-21 10:00:00 AM

					6	MICROFILMED			AS-CONSTRUCTED DETAILS PRESENTED ON THIS DRAWING ARE BASED ON INFORMATION PROVIDED BY THE CONTRACTOR, <u>NASON CONTRACTING</u>	SEAL:	 <div>Stantec Consulting Ltd. 1007 - 7445 - 132 Street Surrey BC Canada V3W 1J8 Tel: (604) 597-0422 Fax: (604) 591-1856 email: <a href="mailto:surrey@stantec.com">surrey@stantec.com</a> <a href="http://www.stantec.com">www.stantec.com</a></div>	DESIGNED:	DRAWN:	CLIENT:	DATE:	SHEET:	
					5	PLAN OF RECORD	05.05.30	RAF				<b>PB</b>	<b>HG</b>	<b>SUNSHINE COAST REGIONAL DISTRICT</b>	<b>Sept 2002</b>		
					4	APPROVAL FOR CONSTRUCTION	02.12.04	RAF				CHECKED:	APPROVED:	TITLE: <b>CHAPMAN CREEK WATER TREATMENT PLANT ELECTRICAL DETAILS SHEET 4</b>	JOB No. <b>117-43200</b>	REVISION: <div>2 5</div> <b>STATUS:</b>	DRAWING: <b>E014</b>
					3	FOR TENDER	02.10.10	RAF				<b>MC</b>	<b>PB</b>				
					2	FOR APPROVAL						SCALE: <b>N.T.S.</b>					
2	09.02.06	NCGL RECORD DRAWING	LJS	BA	2	FOR APPROVAL											
1	05.07.22	AS-CONSTRUCTED	JM		1	PRELIMINARY											
No.	DATE	DESCRIPTION	BY	APPROVED	No.	DESCRIPTION	DATE	APPROVED									
REVISIONS				DRAWING STATUS													