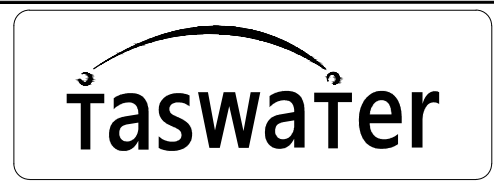


# SPS SWITCHBOARD DESIGN, CONSTRUCTION AND INSTALLATION SUPPORTING DOCUMENTATION

SHEET	TITLE
1	COVER PAGE
2	SITE PLAN LAYOUT CONSIDERATIONS - NOTES
3	SITE PLAN LAYOUT CONSIDERATIONS - SHEET 1 of 3
4	SITE PLAN LAYOUT CONSIDERATIONS - SHEET 2 of 3
5	SITE PLAN LAYOUT CONSIDERATIONS - SHEET 3 of 3
6	CIVIL WORK SLAB DETAILS
7	CIVIL WORK LAYOUT AND CONDUIT DETAILS
8	CORED HOLE MOUNTED WET WELL LAYOUT
9	CORED HOLE MOUNTED STILLING TUBE FABRICATION AND INSTALLATION DETAILS
10	CORED HOLE MOUNTED CABLE SUPPORT FABRICATION AND INSTALLATION DETAILS
11	CORED HOLE MOUNTED FLOAT SUPPORT FABRICATION AND INSTALLATION DETAILS
12	EDGE MOUNTED LEVEL SENSOR AND FLOAT SWITCHES INSTALLATION DETAILS
13	EDGE MOUNTED STILLING TUBE FABRICATION AND INSTALLATION DETAILS
14	EDGE MOUNTED FLOAT SUPPORT FABRICATION AND INSTALLATION DETAILS
15	EDGE MOUNTED CABLE SUPPORT FABRICATION AND INSTALLATION DETAILS
16	SPS RPZD CAGE AND FABRICATION DETAILS - SHEET 1 of 4
17	SPS RPZD CAGE AND FABRICATION DETAILS - SHEET 2 of 4
18	SPS RPZD CAGE AND FABRICATION DETAILS - SHEET 3 of 4
19	SPS RPZD CAGE AND FABRICATION DETAILS - SHEET 4 of 4
20	SPS RPZD PIPEWORK DETAILS
21	BOLLARDS - PLANS AND DETAILS
22	SPS TEMPORARY SUPPLY SINGLE LINE DIAGRAM
23	SPS SITE PLAN TEMPLATE
24	SPS SITE PHOTOS AND LOCATION MAP TEMPLATE

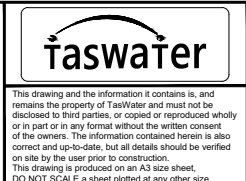
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<b>TASWATER STANDARD DRAWING</b>			
<b>SPS DESIGN, CONSTRUCTION AND INSTALLATION</b>			
<b>SUPPORTING DOCUMENTATION</b>			
<b>COVER PAGE</b>			
TASMANIAN WATER & SEWERAGE CORPORATION PTY LTD ABN: 47 162220 653	Sheet Number	REVISION	
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DESIGN GUIDELINE NOTATIONS

1. DESIGN FUNDAMENTALS

- REFER TO ENCLOSED DRAWINGS WHEN POSITIONING EQUIPMENT SO THE OPERATORS ARE PROVIDED WITH GOOD ERGONOMIC ACCESS.
- DESIGN SHALL BE BASED ON THE PRINCIPAL THAT IT IS NOT NECESSARY FOR PERSONNEL TO ENTER THE WET WELL FOR INITIAL INSTALLATION OF ANY ELECTRICAL COMPONENTS OR SUPPORT HARDWARE.
- DESIGN SHALL BE BASED ON THE PRINCIPAL THAT IT IS NOT NECESSARY FOR PERSONNEL TO ENTER THE WET WELL FOR CLEANING OR REPLACEMENT OF ANY ELECTRICAL COMPONENTS OR SUPPORT HARDWARE.
- DESIGN TO ENSURE THAT STAFF CAN STAND ON SECURE GROUND TO HOSE AND CLEAN DOWN THE SITE.

2. SAFETY

- NO ELECTRICAL CONTROL COMPONENTS OR SUPPORT HARDWARE SHALL BE POSITIONED WHERE IT WILL IMPEDE PERSONNEL ENTRY OR EGRESS FROM THE WET WELL. (THE WET WELL IS A CONFINED SPACE AND ANY RESCUE PERSONNEL ENTERING THE SPACE WILL REQUIRE BREATHING APPARATUS AND CLEAR UNIMPEDED ACCESS DURING THAT EVENT)

3. EXISTING MAINS CABLES

- THE INSTALLATION OF A SEALED TURRET TO EXTEND EXISTING DIVERTED MAINS CABLES IS ACCEPTABLE; CABLES MUST BE CRIMP LINKED & DOUBLE HEAT SHRINK JACKETED BENEATH THE TURRET.

4. OPERATIONAL MAINTENANCE

- THE ELECTRICAL SWITCH BOARD SHALL BE LOCATED IN POSITION WHERE THERE IS CLEAR AND UNIMPEDED ACCESS TO THE FRONT OF THE CABINET. THE SWITCHBOARD DOORS SHALL NEVER FACE THE WET WELL HATCH COVERS.
- THE ELECTRICAL SWITCHBOARD SHALL BE ORIENTATED IN A MANNER WHICH ENSURES THE REAR OF THE CABINET FACES THE PREVAILING WIND DIRECTION.
- IT IS PREFERABLE TO HAVE THE SWITCHBOARD POSITIONED SUCH THAT THE OPERATOR CAN VIEW THE FRONT OF THE CABINET AND LOOK DOWN THE WELL WITHOUT HAVING TO WALK EXCESSIVELY REFER DOT POINT 1.
- THE ELECTRICAL DESIGNER SHALL TAKE PARTICULAR NOTE OF THE WET WELL ACCESS HATCH 'OPENED POSITION' AS THEY GENERALLY OPEN FLAT ON THE GROUND AND CREATE A TRIP HAZARD

5. CIVIL WORKS.

- ALL CIVIL WORK SHALL BE DIMENSIONED (BOTH EXISTING & NEW). SHOW THE POSITION OF THE WET WELL BELOW THE SLAB IN PLAN VIEW.
- REFER TO SHEET 6 FOR MINIMUM CLEARANCES.

6. CORE DRILLING & CONDUIT INSTALLATION

- IT IS IMPORTANT TO INSTALL THE CONDUITS WITH A NEGATIVE SLOPE TO THE WET WELL TO HELP ENSURE DRAINAGE BACK TO THE WET WELL.

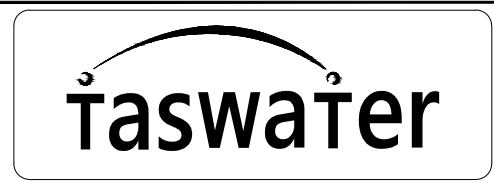
7. CONDUIT ENTRY LOCATION

- THE ELECTRICAL DESIGNER SHALL PAY PARTICULAR ATTENTION TO THE LOCATION OF EXISTING PUMPS AND ASSOCIATED SLIDE RAILS. IT IS PREFERABLE FOR THE INCOMING "CORE DRILLED CABLE CONDUITS" TO ENTER THE WET WELL EITHER:  
OPPOSITE THE PUMP GUIDE RAILS (TO ALLOW EACH PUMP TO BE RAISED WITHOUT CABLE ENTANGLEMENT WITH THE OTHER PUMP CABLE).  
DIRECTLY BEHIND THE GUIDE RAILS (TO ALLOW EACH PUMP TO BE RAISED WITHOUT CABLE ENTANGLEMENT WITH THE OTHER PUMP CABLE).  
FLOATS AND HYDROSTATIC STILLING TUBE ARE MORE LIKELY TO BE CLEAR OF THE PUMP "WITHDRAWAL ZONE" UNDER THE ABOVE CONDITIONS.

8. WET WELL FLOAT & STILLING WELL COMPONENTS

- MAINTAINING A MINIMUM OF 75MM FROM WALL TO FLOAT BRACKET. (NOTE: FLOATS RUBBING ON WET WELL WALL ENCOURAGE ACCUMULATION OF SLUDGE)
- CABLE HANGERS SHALL BE LOCATED IN A POSITION CLOSE TO THE WELL OPENING WHERE THE OPERATOR MAY EASILY UNHOOK THE FLOATS AND REMOVE FOR MAINTENANCE.
- FLOATS & STILLING WELL SHALL BE LOCATED IN A POSITION WHICH WILL NOT IMPEDE PUMP WITHDRAWAL AND SAFE RESCUE OPERATIONS.
- THE STILLING WELL SHALL BE LOCATED IN A POSITION WHICH ALLOWS THE OPERATOR TO EASILY WITHDRAW THE SENSOR OR INSERT A HOSE INTO THE TOP OF THE TUBE TO ASSIST IN CLEANING.

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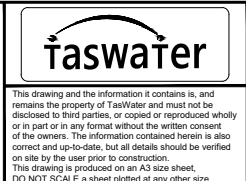


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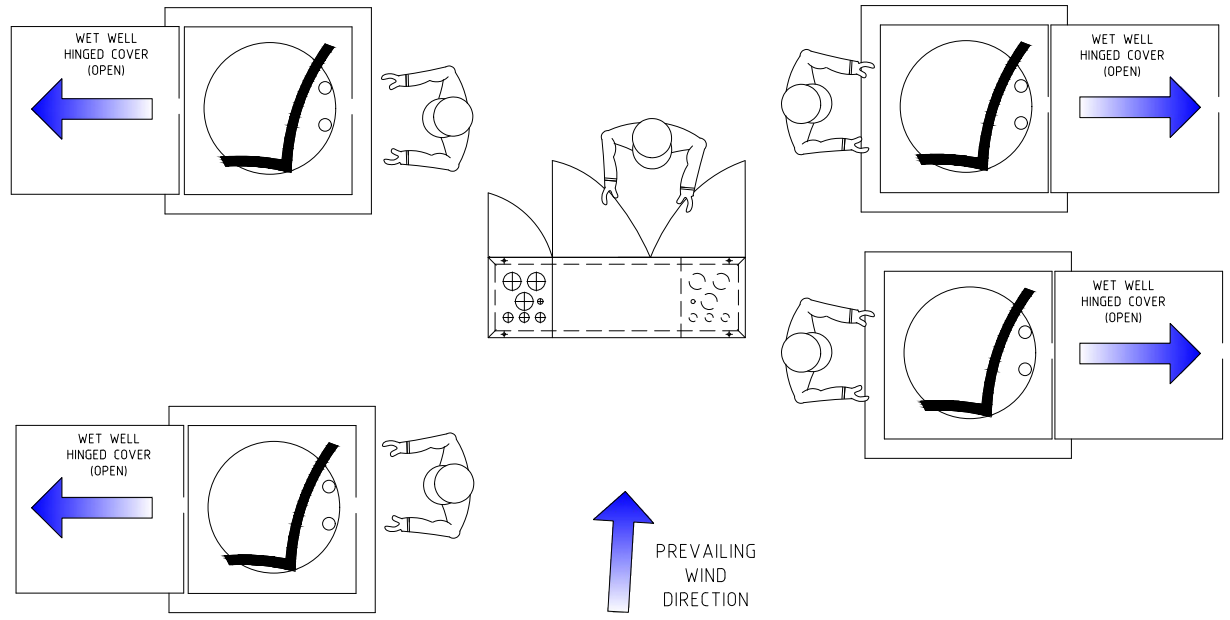
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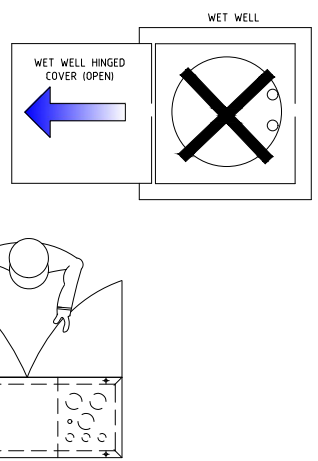
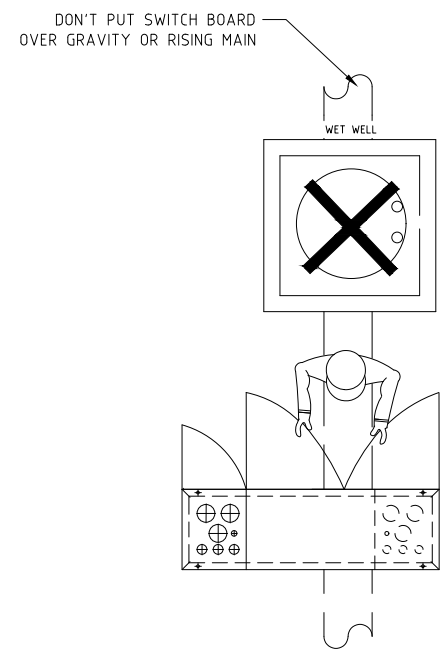
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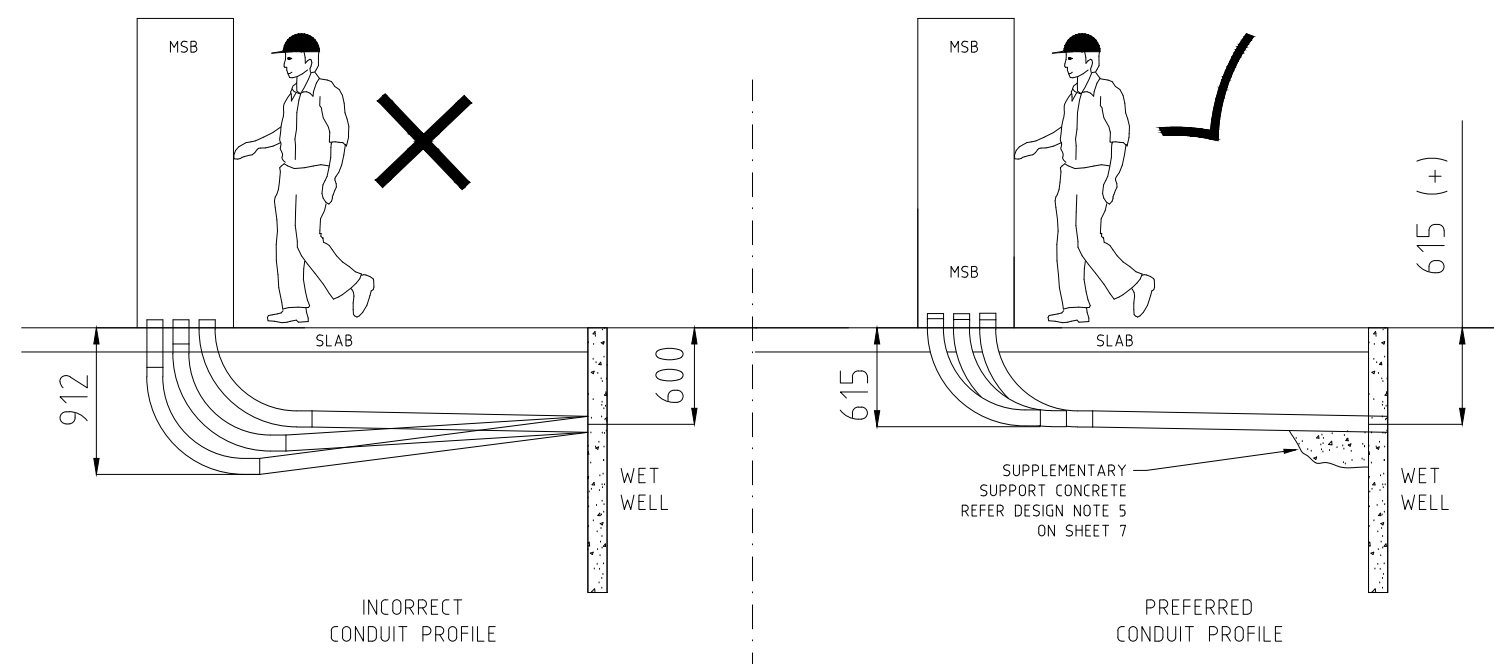
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SPS DESIGN, CONSTRUCTION AND INSTALLATION			
SUPPORTING DOCUMENTATION			
SITE PLAN LAYOUT CONSIDERATIONS - NOTES			
TASMANIAN WATER & SEWERAGE CORPORATION PTY LTD	ABN: 47 162220 653	Sheet Number	REVISION
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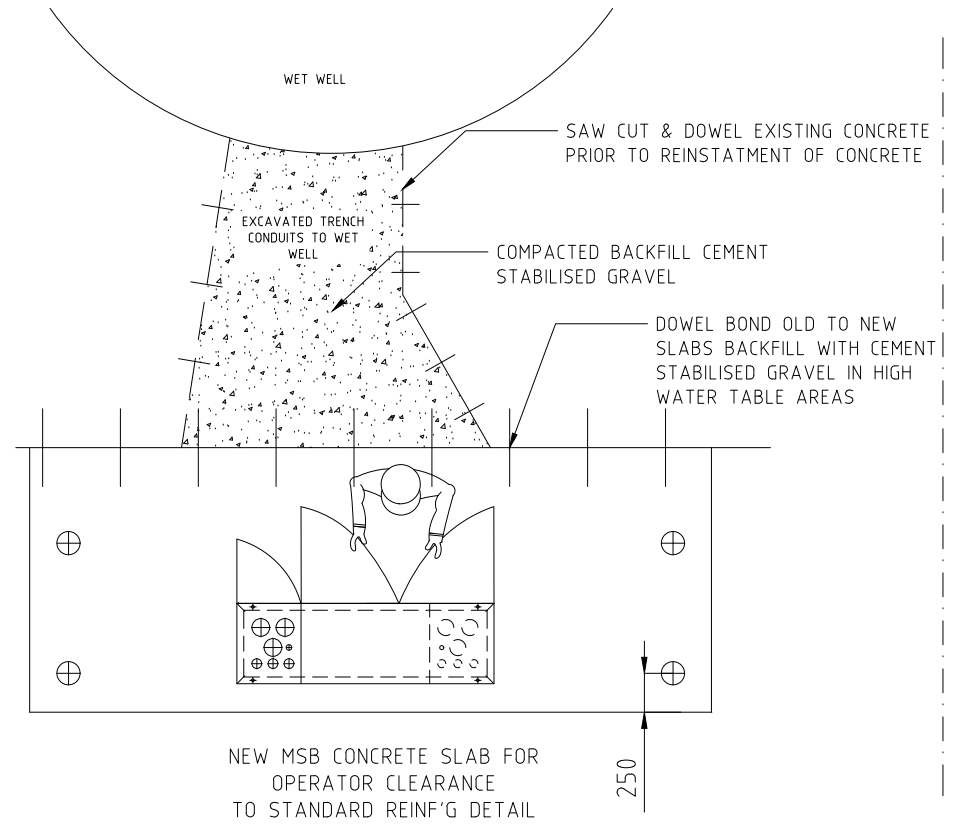
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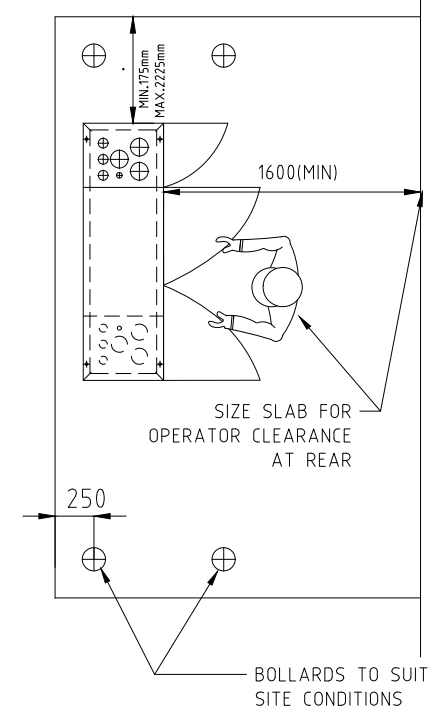
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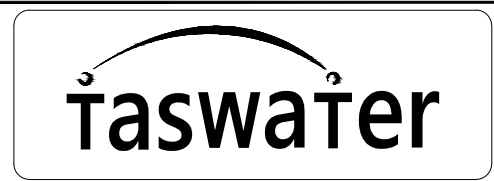
UNDERGROUND CONDUIT INSTALLATION



SIZING NEW SLAB & EXCAVATION / REINSTATEMENT



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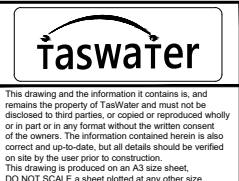


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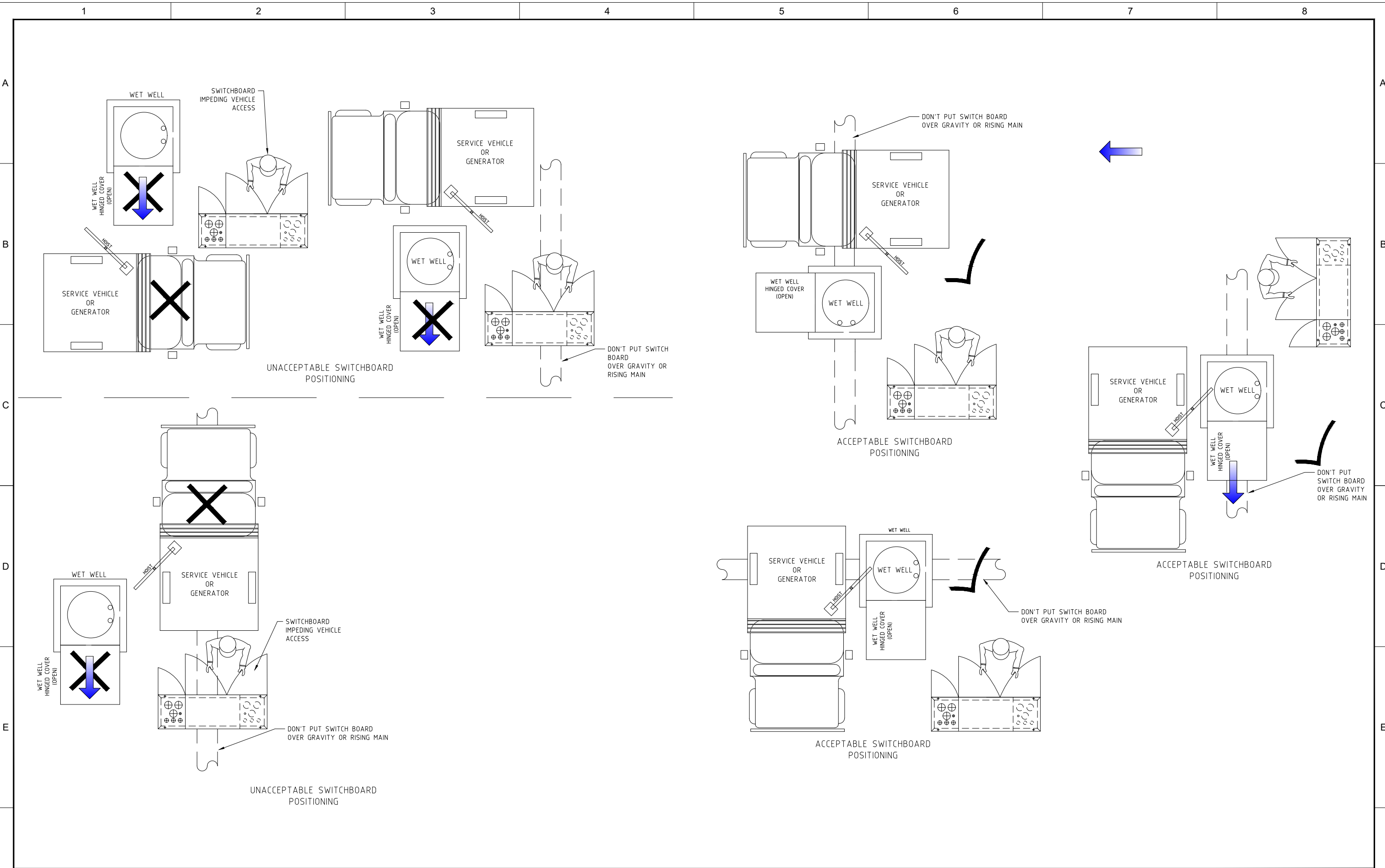
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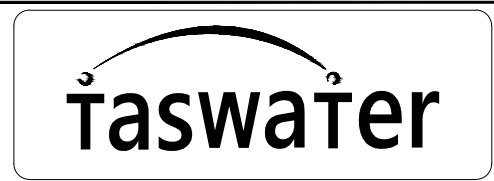
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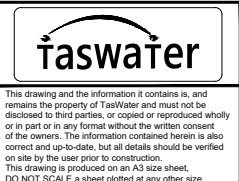


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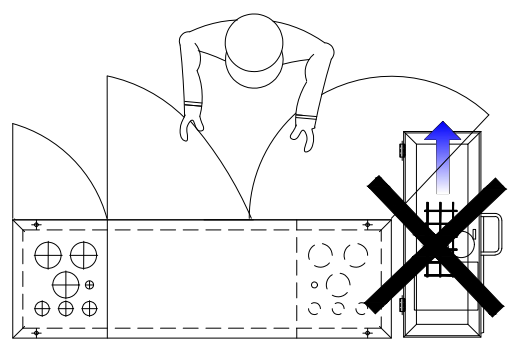
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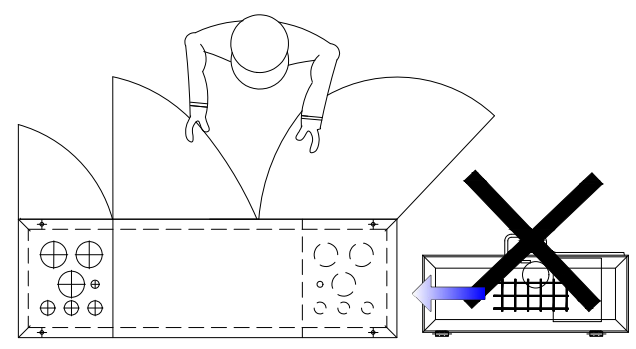
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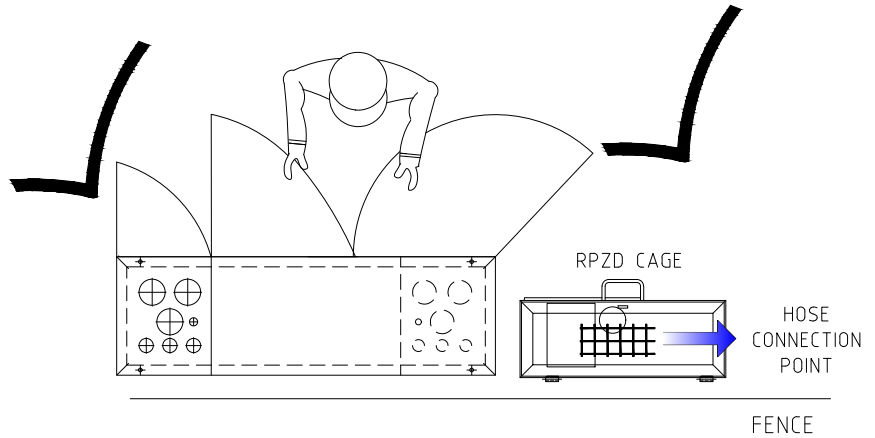
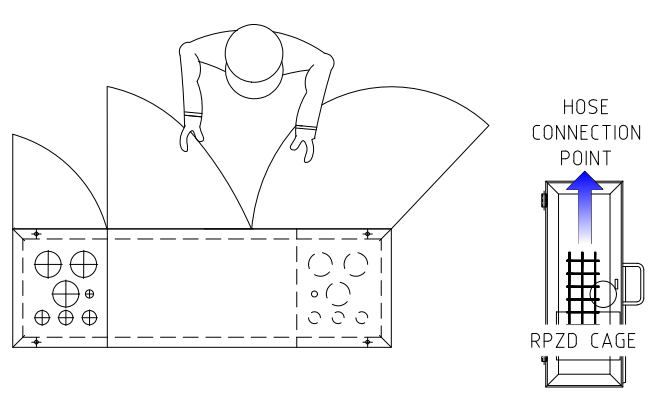
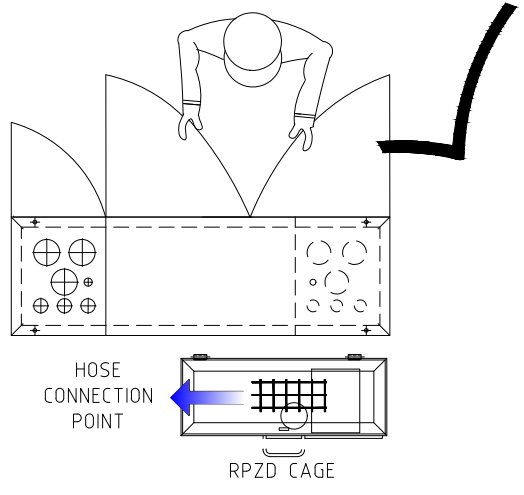
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SITE PLAN LAYOUT CONSIDERATIONS - SHEET 2 of 3			
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RPZD IMPEDING SWITCHBOARD ACCESS

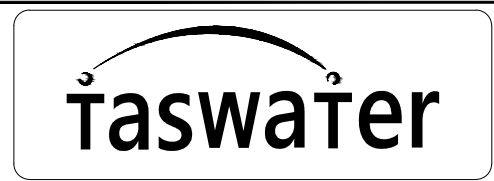


RPZD OUTLET DIRECTED TOWARDS SWITCHBOARD



RPZD (HOSE POINT)  
&  
CAGE POSITIONING OPTIONS

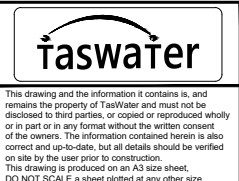
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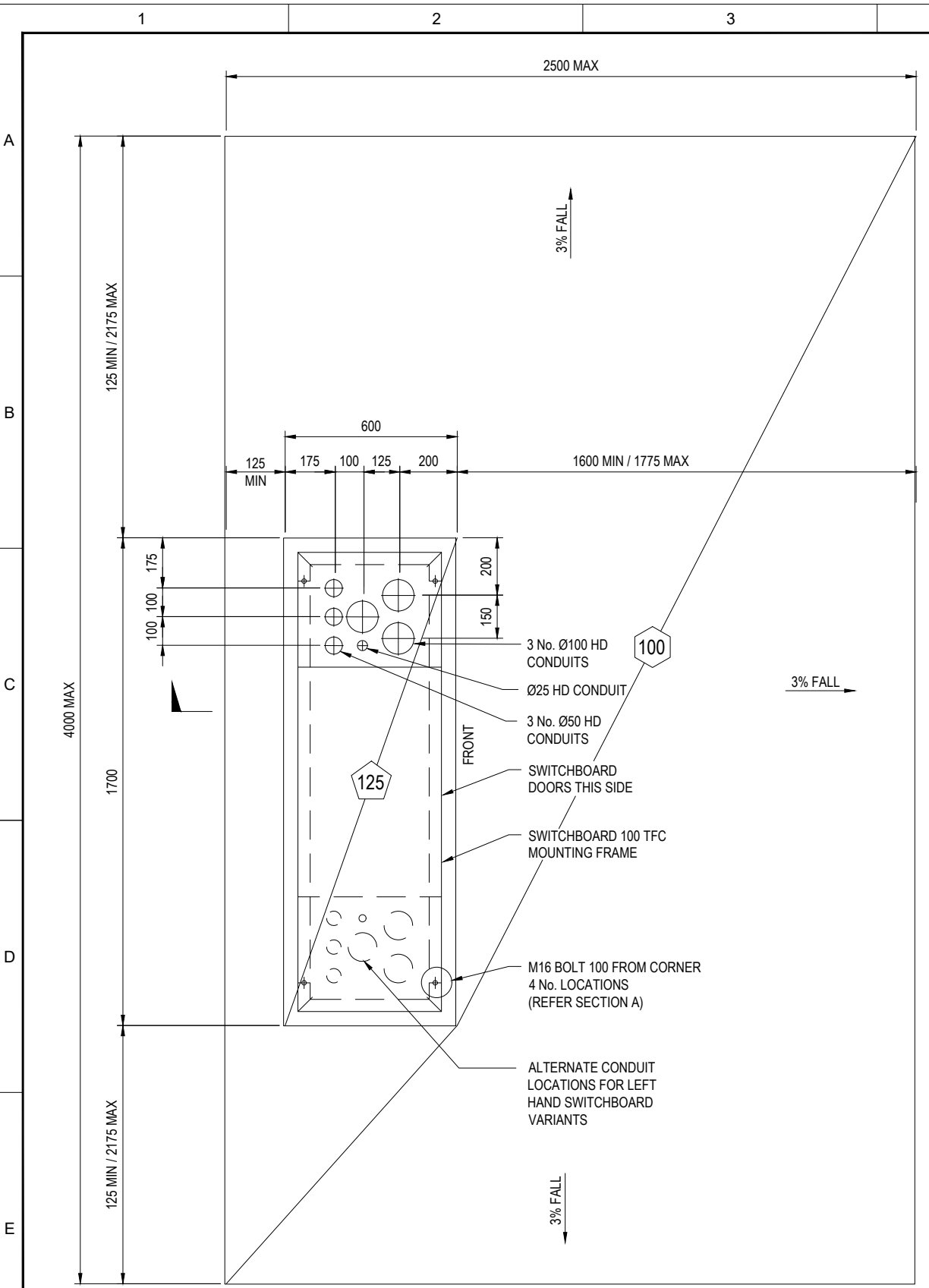
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SITE PLAN LAYOUT CONSIDERATIONS - SHEET 3 of 3			
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**PLAN**  
SCALE 1:20

100 100 THICK SLAB. SL82 TOP 40 COVER.

125 125 THICK SLAB. SL82 TOP 65 COVER.

**SITE PREPARATION**

- GROUND SHALL BE STRIPPED OF TOP SOIL AND VEGETABLE MATTER AND ANY LOOSE PACKED MATERIAL SHALL BE DUG OUT. WHERE IT IS NECESSARY TO DEEPEN THE EXCAVATION SO AS TO PROVIDE ADEQUATE BEARING CAPACITY, BACKFILL WITH COMPACTED GRANULAR MATERIAL.
- WHERE EXCAVATION REVEALS UNFORSEEN VARIATION IN GROUND CONDITIONS THE DESIGNER IS TO BE ADVISED TO CONFIRM THE VALIDITY OF THE DESIGN AND TO SPECIFY ANY NECESSARY VARIATION TO THE WORK.

**MAKING GOOD**

- BACKFILL TO SLAB EDGE TO REMOVE TRIP HAZARDS.
- REINSTATE TO EXISTING SURFACE CONDITION.

NOTE:  
THIS SLAB IS NOT DESIGNED FOR VEHICLE LOADING

**FOUNDATION**

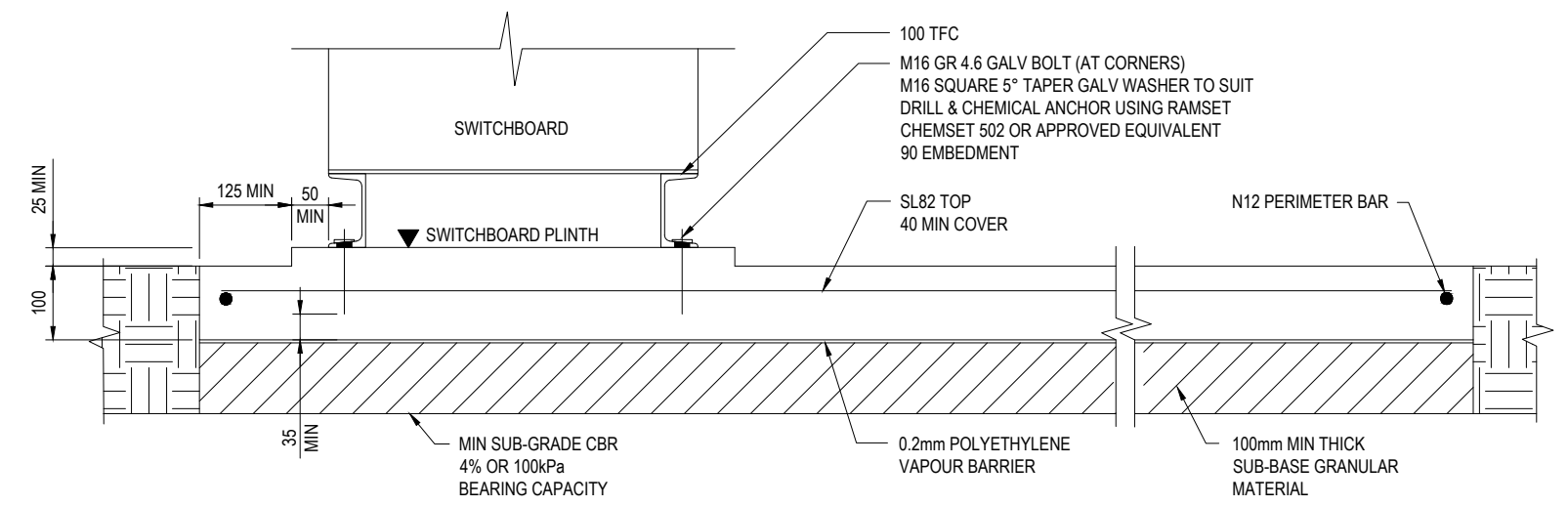
- FOOTINGS SHALL BE EXCAVATED TO THE LEVELS AND DIMENSIONS SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE DESIGNER.
- THE SLAB, SHALL BE FOUNDED ON MATERIAL WITH AN ALLOWABLE BEARING PRESSURE NOT LESS THAN 100KPA.
- ALL LOOSE, SOFT, YIELDING OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE FOUNDATIONS AND REPLACED WITH SOUND COMPACTED MATERIAL ACCEPTABLE TO THE ENGINEER.
- THE BOTTOM AND SIDES OF ALL FOOTINGS SHALL BE DRESSED TO A SMOOTH AND REGULAR SURFACE. ALL EXCAVATIONS ARE TO BE SUITABLY RETAINED SO THAT THE MINIMUM SPECIFIED DIMENSIONS ARE MAINTAINED.
- ALL FILLING SHALL BE CARRIED UP IN NEAR HORIZONTAL LAYERS OF UNIFORM THICKNESS EXTENDING THE FULL WIDTH OF THE AREA BEING FILLED.
- EXTENSIVE FILLING OR VARIATIONS IN EXISTING GROUND CONDITIONS TOGETHER WITH FILLING MAY REQUIRE ADDITIONAL DETAILING BY THE ENGINEER.

**REINFORCEMENT**

- SUPPLY REINFORCEMENT AS DETAILED TOGETHER WITH TIE WIRE AND SUPPORT CHAIRS NECESSARY FOR FIXING GENERALLY COMPLYING WITH AS3600 SECTION 19 FREE FROM SCALE, RUST, OIL, GREASE OR OTHER COATINGS, BUNDLED AND TAGGED FOR IDENTIFICATION.
- USE REINFORCING BARS AND MESH COMPLYING WITH AS4671 AND WIRE FOR WRAPPING STRUCTURAL STEEL MEMBERS COMPLYING WITH AS4100.
- FIX REINFORCEMENT TO COMPLY WITH AS2870 WITH CLEAR COVER AS SHOWN ON THE DRAWINGS, ADEQUATELY SUPPORTED AND SECURELY TIED. DO NOT COMMENCE CONCRETING UNTIL REINFORCEMENT HAS BEEN INSPECTED AND APPROVED.
- MINIMUM CLEAR COVER TO THE REINFORCEMENT SHALL BE AS SHOWN.
- SLAB MESH SHALL BE LAPPED BY ONE FULL PANEL IE. TWO OUTERMOST WIRES EACH PLUS 25mm TRENCH MESH SHALL BE LAPPED BY THE WIDTH OF THE MESH AT T AND L JUNCTIONS. LONGITUDINAL SPLICES SHALL LAP BY 500mm. AT L INTERSECTIONS, ONE OUTER BAR SHALL BE BENT AND CONTINUED 500mm, OR A BENT LAP BAR 500mm LONG EACH LEG SHALL BE PROVIDED.
- MESH SHALL BE SUPPORTED IN BAR CHAIRS WITH PANS AT NOT MORE THAN 800MM CENTRES BOTH WAYS OR AS NECESSARY TO PREVENT SAGGING DURING PLACING CONCRETE.

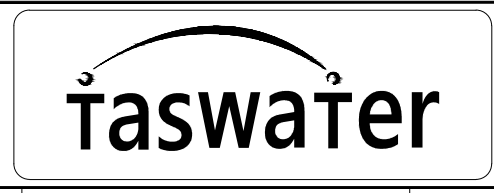
**CONCRETE**

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600, EXCEPT WHERE VARIED BY THE ENGINEER.
- CONCRETE COMPLYING WITH AS1379 AND SUPPLIED BY AN APPROVED CONCRETE SUPPLIER SHALL BE USED. CONCRETE SHALL NOT BE POURED WITHOUT THE PRIOR APPROVAL.
- ALL CONCRETE SUPPLIED SHALL BE N25, WITH 20mm MAXIMUM AGGREGATE SIZE AND 100mm +/- 15mm SLUMP IN ACCORDANCE WITH AS1379.
- THE THICKNESS OF THE SLAB SHALL NOT BE LESS THAN THE SPECIFIED DIMENSION.
- SURFACE FINISH TOLERANCE SHALL NOT EXCEED + OR - 5mm FROM A 3m STRAIGHT EDGE. ALL EXPOSED SURFACES TO HAVE STRIPPLE / SWIRL FINISH. TROWELED FINISH BENEATH SWITCHBOARD (TYP)



**SECTION A-A**  
1:10

Revision Notes				
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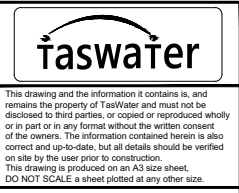


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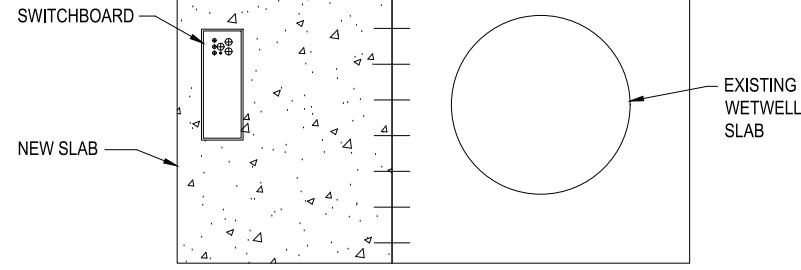
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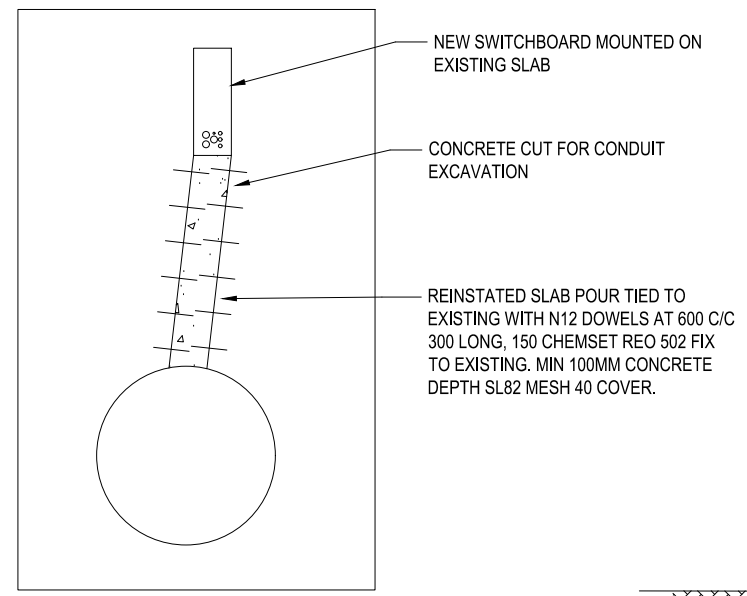
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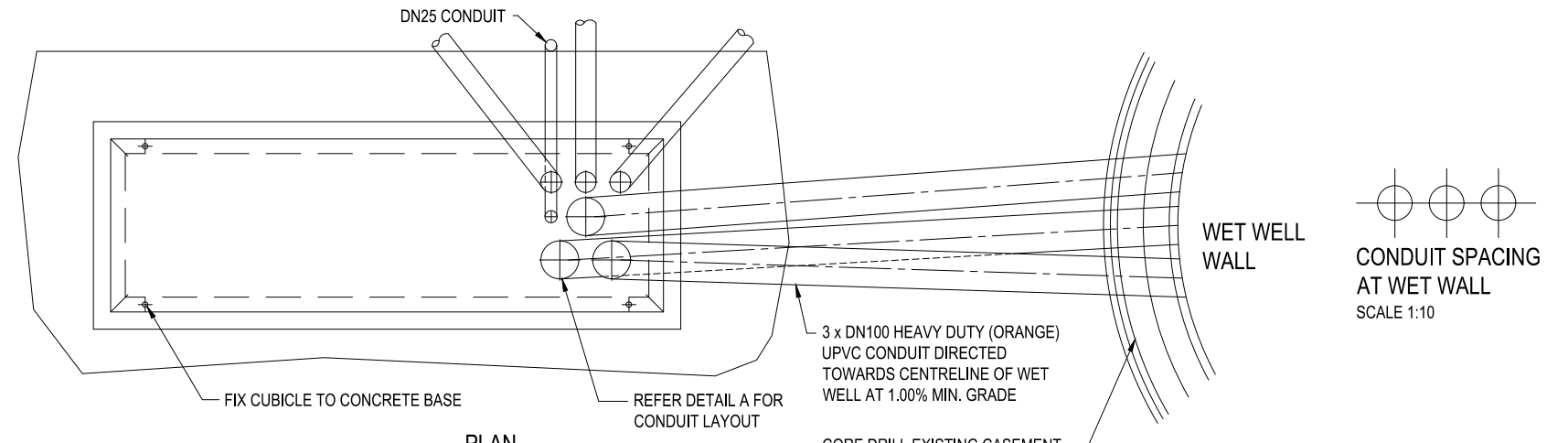
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CIVIL WORK SLAB DETAILS			
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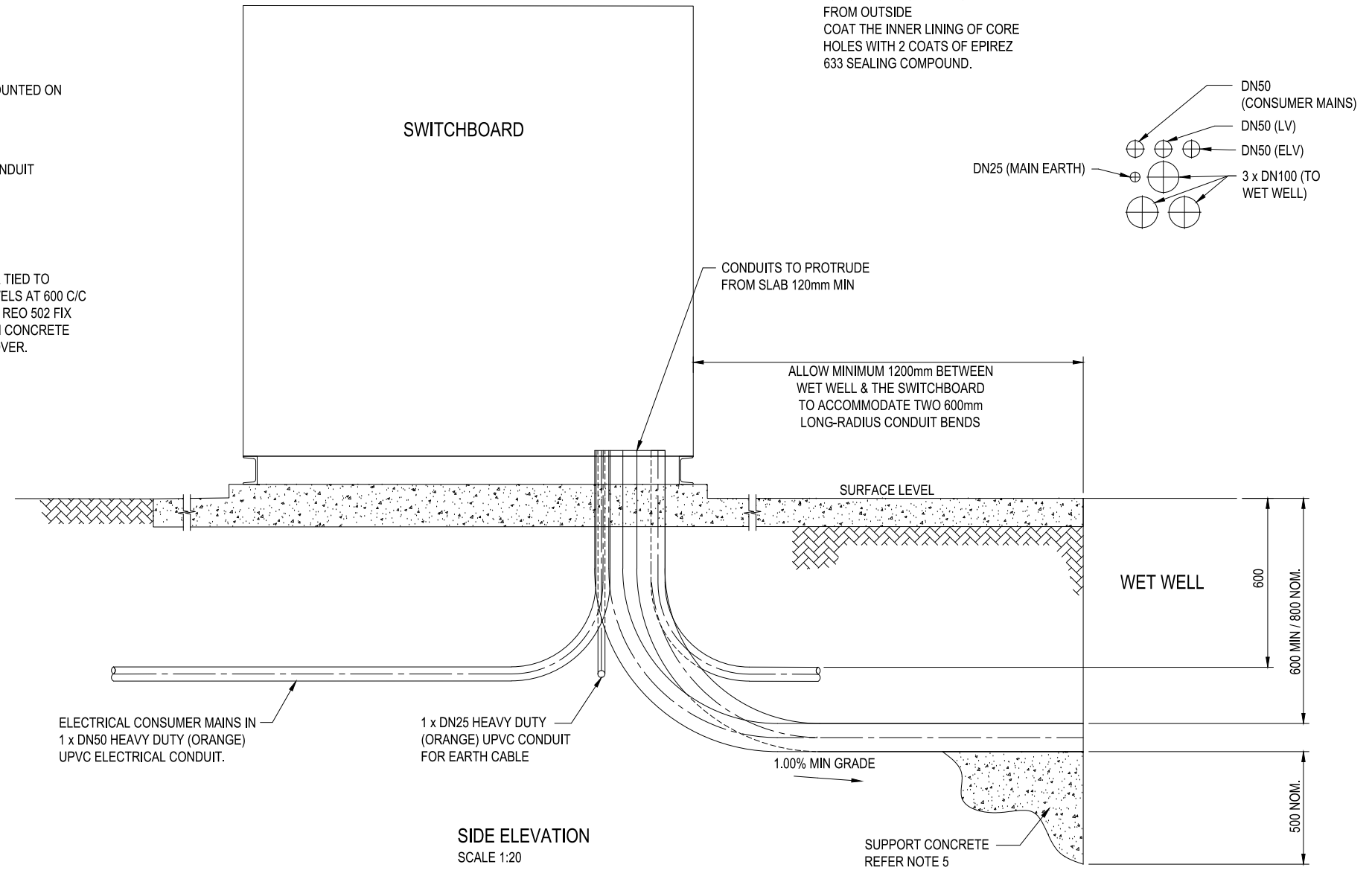
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TYPE B TYPICAL SITE LAYOUT  
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PLAN  
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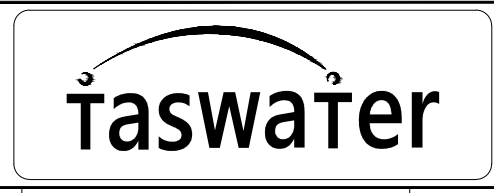


SIDE ELEVATION  
SCALE 1:20

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
2. ALL UPVC CONDUITS TO BE CONTINUOUS (SOLVENT CEMENT JOINTED).
3. SEAL ALL JOINTS TO PREVENT INGRESS OF MOISTURE.
4. UTILISE LONG RADIUS BENDS ON ALL CONDUITS.
5. IN PREPARATION FOR CORE DRILLING THE CONTRACTOR NEEDS TO EXCAVATE APPROXIMATELY 400mm MORE SPOIL BELOW THE CORE HOLES TO ALLOW THE MACHINE TO SET PROPERLY. INSTALL MASS CONCRETE IN EXCAVATED VOID TO UNDERSIDE OF CONDUITS TO PROVIDE SUPPORT.

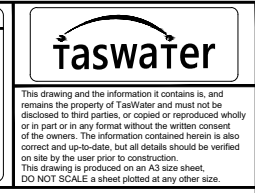
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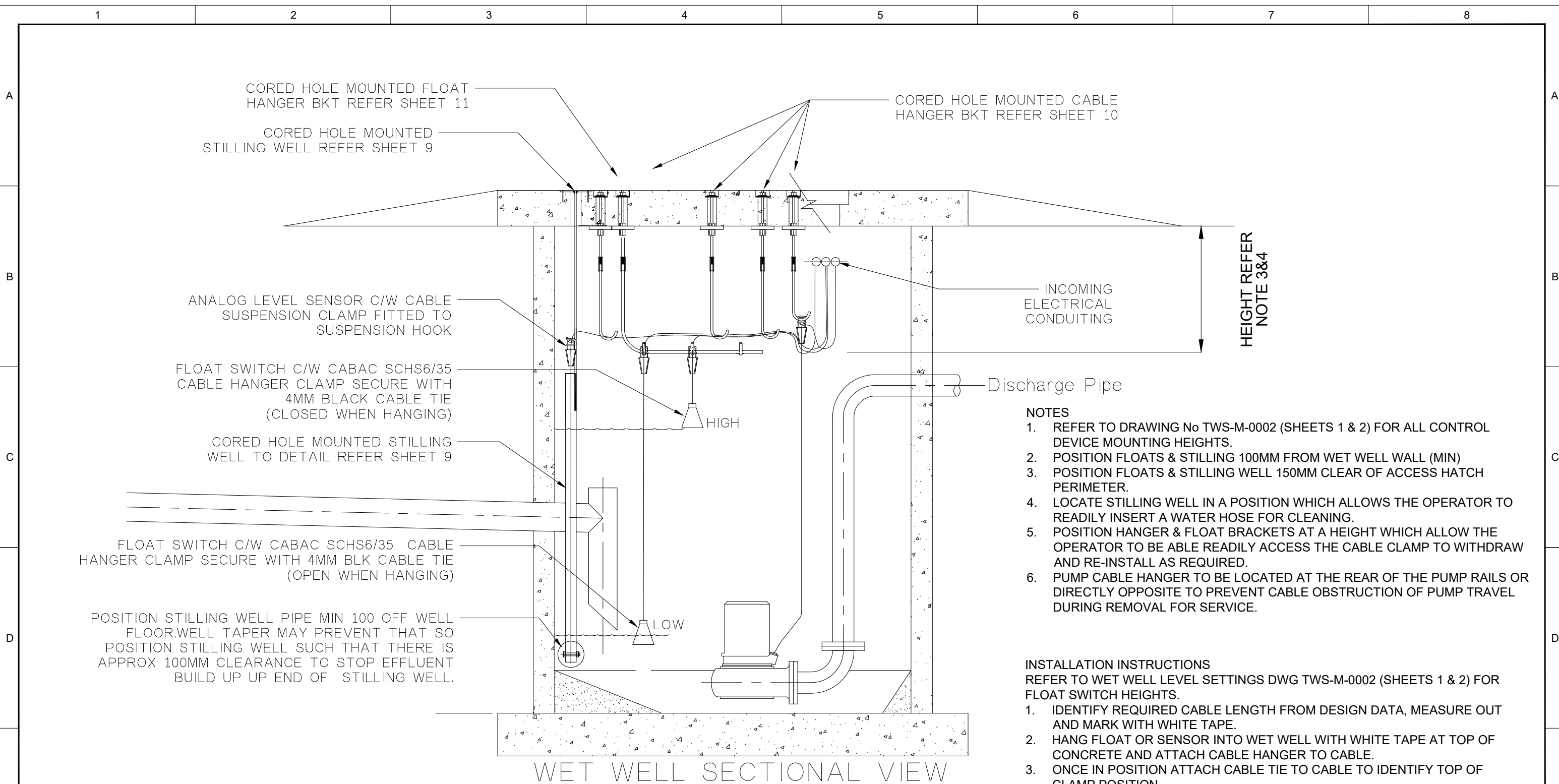
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TASWATER STANDARD DRAWING SPS DESIGN, CONSTRUCTION AND INSTALLATION SUPPORTING DOCUMENTATION CIVIL WORK LAYOUT AND CONDUIT DETAILS			
TASMANIAN WATER & SEWERAGE CORPORATION PTY LTD ABN: 47 162220 653	Sheet Number <b>TWS-E-0038</b>	REVISION 7	1

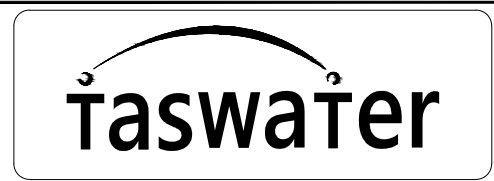


WET WELL SECTIONAL VIEW

- NOTES**
1. REFER TO DRAWING No TWS-M-0002 (SHEETS 1 & 2) FOR ALL CONTROL DEVICE MOUNTING HEIGHTS.
  2. POSITION FLOATS & STILLING 100MM FROM WET WELL WALL (MIN)
  3. POSITION FLOATS & STILLING WELL 150MM CLEAR OF ACCESS HATCH PERIMETER.
  4. LOCATE STILLING WELL IN A POSITION WHICH ALLOWS THE OPERATOR TO READILY INSERT A WATER HOSE FOR CLEANING.
  5. POSITION HANGER & FLOAT BRACKETS AT A HEIGHT WHICH ALLOW THE OPERATOR TO BE ABLE READILY ACCESS THE CABLE CLAMP TO WITHDRAW AND RE-INSTALL AS REQUIRED.
  6. PUMP CABLE HANGER TO BE LOCATED AT THE REAR OF THE PUMP RAILS OR DIRECTLY OPPOSITE TO PREVENT CABLE OBSTRUCTION OF PUMP TRAVEL DURING REMOVAL FOR SERVICE.

- INSTALLATION INSTRUCTIONS**  
REFER TO WET WELL LEVEL SETTINGS DWG TWS-M-0002 (SHEETS 1 & 2) FOR FLOAT SWITCH HEIGHTS.
1. IDENTIFY REQUIRED CABLE LENGTH FROM DESIGN DATA, MEASURE OUT AND MARK WITH WHITE TAPE.
  2. HANG FLOAT OR SENSOR INTO WET WELL WITH WHITE TAPE AT TOP OF CONCRETE AND ATTACH CABLE HANGER TO CABLE.
  3. ONCE IN POSITION ATTACH CABLE TIE TO CABLE TO IDENTIFY TOP OF CLAMP POSITION.
  4. ONCE IN CORRECT POSITION ATTACH CABLE TIE TO CABLE CLAMP TO ENSURE CLAMP CAN NOT RELEASE.
  5. RECORD INSTALLED LENGTHS ON THIS DRAWING AND WET WELL LEVEL DRAWING.
  6. ELECTRICALLY CONNECT EQUIPMENT AS SHOWN IN ELECTRICAL DRAWINGS.

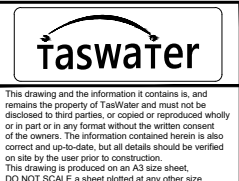
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A - Initial Revision					
Rev.	1	Date	9/3/2022	Approved	T. Gibbs



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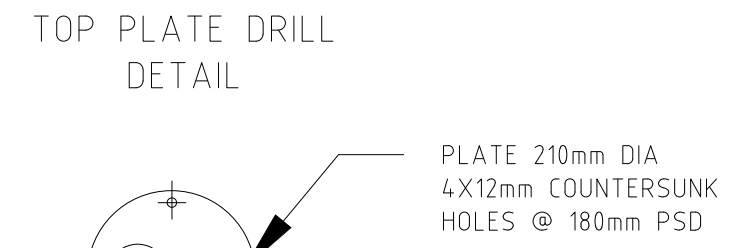
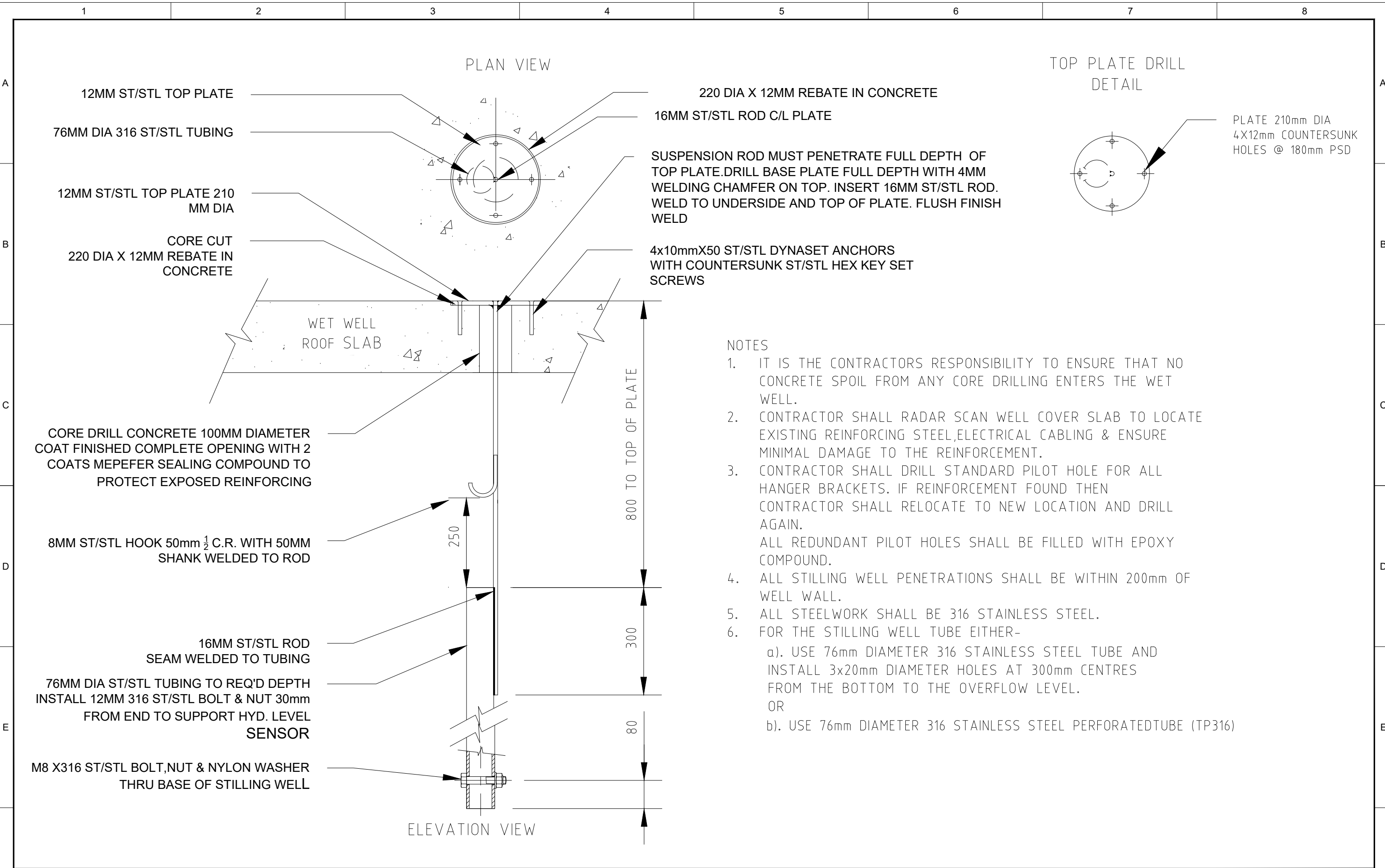
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Designed	PLJ	21/02/2022
Verified	T. Gibbs	9/3/2022
Project No.	-	Discipline
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**DRAWING ISSUE**  
**NOT FOR CONSTRUCTION**



<b>TASWATER STANDARD DRAWING</b>			
SPS DESIGN, CONSTRUCTION AND INSTALLATION			
SUPPORTING DOCUMENTATION			
CORED HOLE MOUNTED WET WELL LAYOUT			
TASMANIAN WATER & SEWERAGE CORPORATION PTY LTD ABN: 47 162220 653		Sheet Number <b>TWS-E-0038</b>	REVISION 8 1





220 DIA X 12MM REBATE IN CONCRETE

16MM ST/STL ROD C/L PLATE

SUSPENSION ROD MUST PENETRATE FULL DEPTH OF TOP PLATE. DRILL BASE PLATE FULL DEPTH WITH 4MM WELDING CHAMFER ON TOP. INSERT 16MM ST/STL ROD. WELD TO UNDERSIDE AND TOP OF PLATE. FLUSH FINISH WELD

4x10mmx50 ST/STL DYNASET ANCHORS WITH COUNTERSUNK ST/STL HEX KEY SET SCREWS

- NOTES
- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT NO CONCRETE SPOIL FROM ANY CORE DRILLING ENTERS THE WET WELL.
  - CONTRACTOR SHALL RADAR SCAN WELL COVER SLAB TO LOCATE EXISTING REINFORCING STEEL, ELECTRICAL CABLING & ENSURE MINIMAL DAMAGE TO THE REINFORCEMENT.
  - CONTRACTOR SHALL DRILL STANDARD PILOT HOLE FOR ALL HANGER BRACKETS. IF REINFORCEMENT FOUND THEN CONTRACTOR SHALL RELOCATE TO NEW LOCATION AND DRILL AGAIN. ALL REDUNDANT PILOT HOLES SHALL BE FILLED WITH EPOXY COMPOUND.
  - ALL STILLING WELL PENETRATIONS SHALL BE WITHIN 200mm OF WELL WALL.
  - ALL STEELWORK SHALL BE 316 STAINLESS STEEL.
  - FOR THE STILLING WELL TUBE EITHER-
    - USE 76mm DIAMETER 316 STAINLESS STEEL TUBE AND INSTALL 3x20mm DIAMETER HOLES AT 300mm CENTRES FROM THE BOTTOM TO THE OVERFLOW LEVEL.
    - OR
    - USE 76mm DIAMETER 316 STAINLESS STEEL PERFORATED TUBE (TP316)

Revision Notes				
1 - APPROVED				
A - Initial Revision				
Rev.	1	Date	9/3/2022	Approved
				T. Gibbs

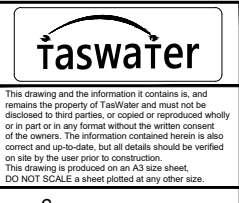


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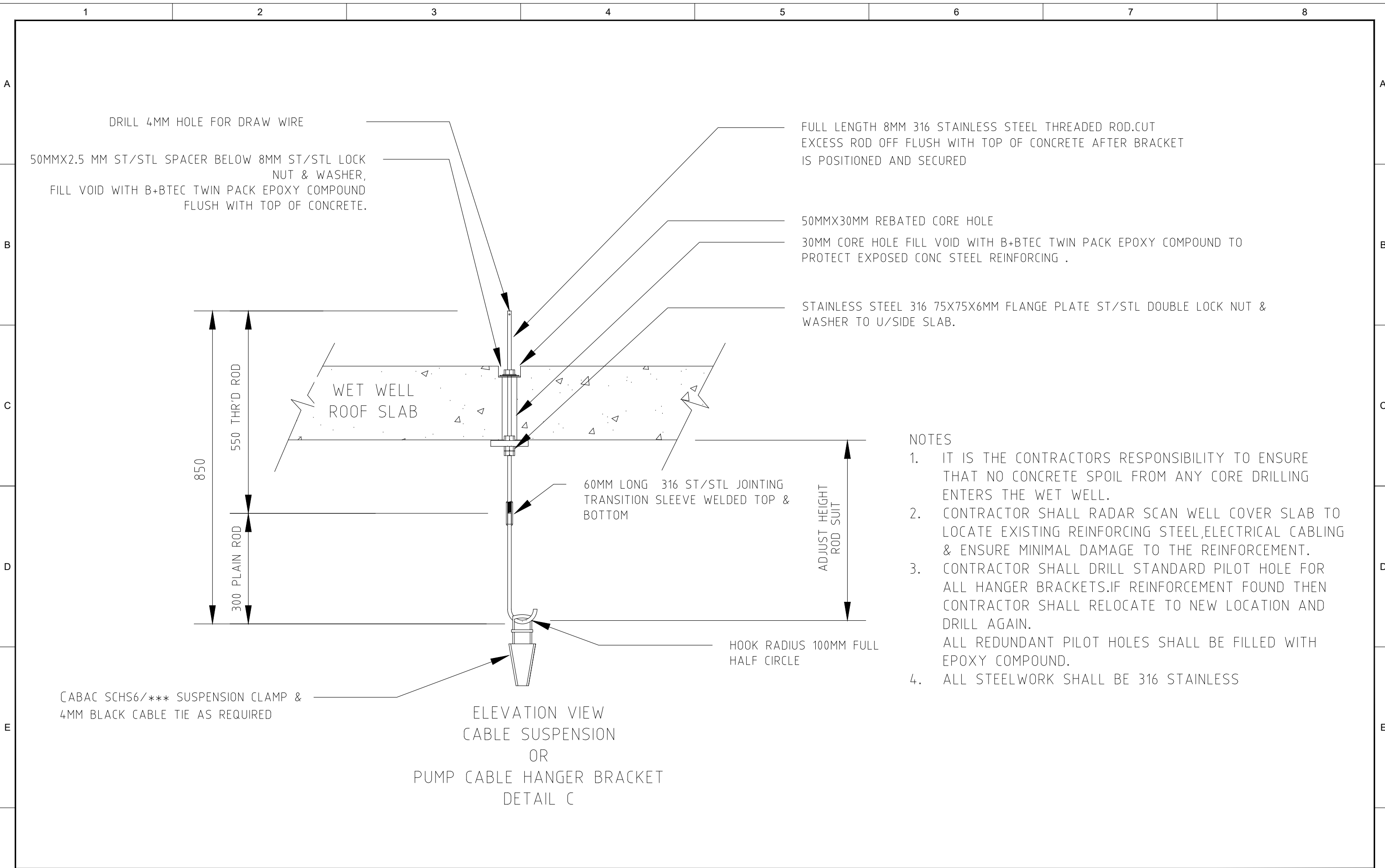
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Verified	T. Gibbs	9/3/2022
Project No.	-	Discipline
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**NOT FOR CONSTRUCTION**



TASWATER STANDARD DRAWING			
SPS DESIGN, CONSTRUCTION AND INSTALLATION			
SUPPORTING DOCUMENTATION			
Core Hole Mounted Stilling Tube Fabrication & Installation Details			
TASMANIAN WATER & SEWERAGE CORPORATION PTY LTD	ABN: 47 162220 653	Sheet Number	REVISION
		TWS-E-0038	9 1



FULL LENGTH 8MM 316 STAINLESS STEEL THREADED ROD.CUT EXCESS ROD OFF FLUSH WITH TOP OF CONCRETE AFTER BRACKET IS POSITIONED AND SECURED

50MMX30MM REBATED CORE HOLE  
30MM CORE HOLE FILL VOID WITH B+BTEC TWIN PACK EPOXY COMPOUND TO PROTECT EXPOSED CONC STEEL REINFORCING .

STAINLESS STEEL 316 75X75X6MM FLANGE PLATE ST/STL DOUBLE LOCK NUT & WASHER TO U/SIDE SLAB.

60MM LONG 316 ST/STL JOINTING TRANSITION SLEEVE WELDED TOP & BOTTOM

ADJUST HEIGHT ROD SUIT

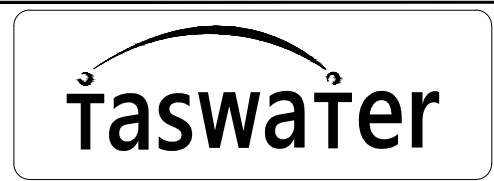
HOOK RADIUS 100MM FULL HALF CIRCLE

NOTES

1. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT NO CONCRETE SPOIL FROM ANY CORE DRILLING ENTERS THE WET WELL.
2. CONTRACTOR SHALL RADAR SCAN WELL COVER SLAB TO LOCATE EXISTING REINFORCING STEEL,ELECTRICAL CABLING & ENSURE MINIMAL DAMAGE TO THE REINFORCEMENT.
3. CONTRACTOR SHALL DRILL STANDARD PILOT HOLE FOR ALL HANGER BRACKETS.IF REINFORCEMENT FOUND THEN CONTRACTOR SHALL RELOCATE TO NEW LOCATION AND DRILL AGAIN.  
ALL REDUNDANT PILOT HOLES SHALL BE FILLED WITH EPOXY COMPOUND.
4. ALL STEELWORK SHALL BE 316 STAINLESS

ELEVATION VIEW  
CABLE SUSPENSION  
OR  
PUMP CABLE HANGER BRACKET  
DETAIL C

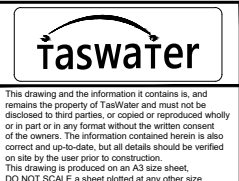
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A - Initial Revision				
Rev.	1	Date	9/3/2022	Approved
				T. Gibbs



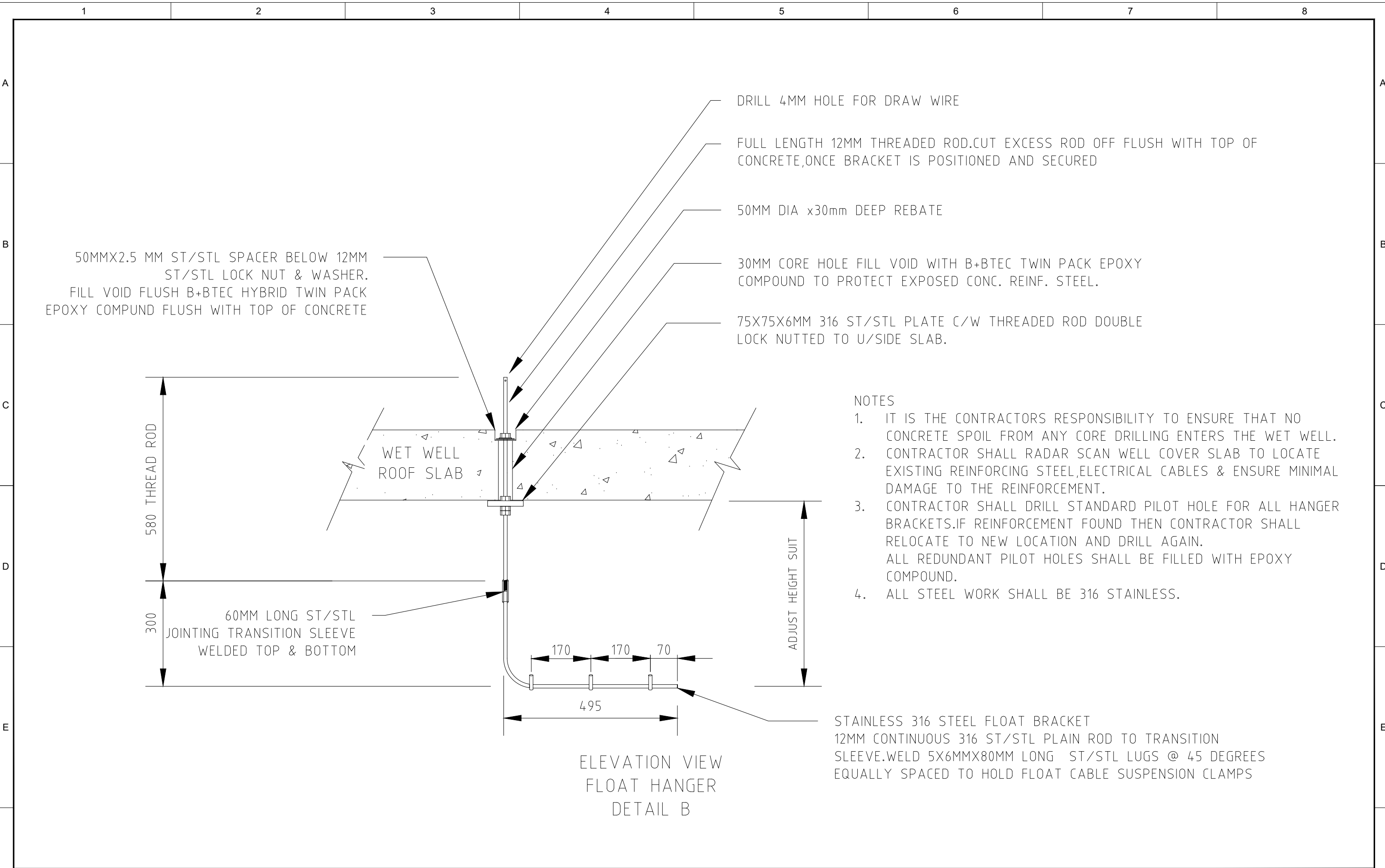
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Verified	T. Gibbs	9/3/2022
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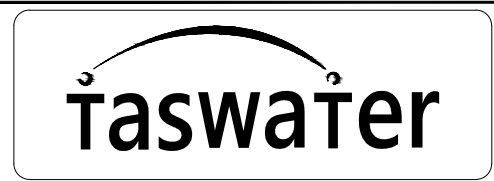


TASWATER STANDARD DRAWING		
SPS DESIGN, CONSTRUCTION AND INSTALLATION		
SUPPORTING DOCUMENTATION		
Core Hole Mounted Cable Support Fabrication & Installation Details		
TASMANIAN WATER & SEWERAGE CORPORATION PTY LTD ABN: 47 162220 653	Sheet Number <b>TWS-E-0038</b>	REVISION 10 1



- NOTES
1. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT NO CONCRETE SPOIL FROM ANY CORE DRILLING ENTERS THE WET WELL.
  2. CONTRACTOR SHALL RADAR SCAN WELL COVER SLAB TO LOCATE EXISTING REINFORCING STEEL,ELECTRICAL CABLES & ENSURE MINIMAL DAMAGE TO THE REINFORCEMENT.
  3. CONTRACTOR SHALL DRILL STANDARD PILOT HOLE FOR ALL HANGER BRACKETS.IF REINFORCEMENT FOUND THEN CONTRACTOR SHALL RELOCATE TO NEW LOCATION AND DRILL AGAIN. ALL REDUNDANT PILOT HOLES SHALL BE FILLED WITH EPOXY COMPOUND.
  4. ALL STEEL WORK SHALL BE 316 STAINLESS.

Revision Notes				
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A - Initial Revision				
Rev.	1	Date	9/3/2022	Approved
				T. Gibbs

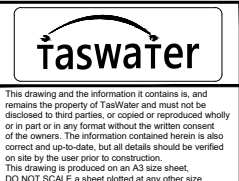


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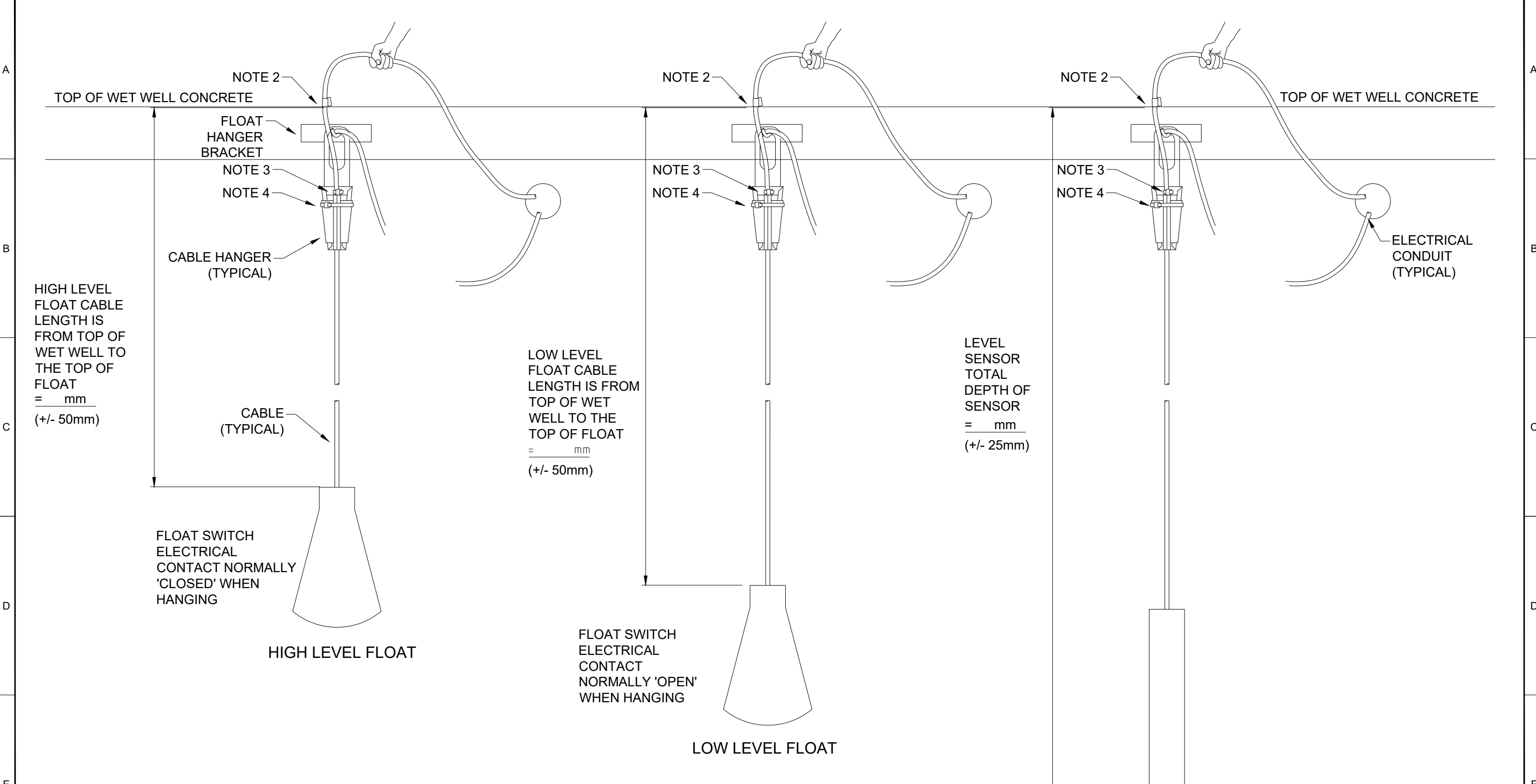
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Verified	T. Gibbs	9/3/2022
Project No.	-	Discipline
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TASWATER STANDARD DRAWING			
SPS DESIGN, CONSTRUCTION AND INSTALLATION SUPPORTING DOCUMENTATION			
Core Hole Mounted Float Support Fabrication & Installation Details			
TASMANIAN WATER & SEWERAGE CORPORATION PTY LTD ABN: 47 162220 653	Sheet Number <b>TWS-E-0038</b>	Revision 11	1

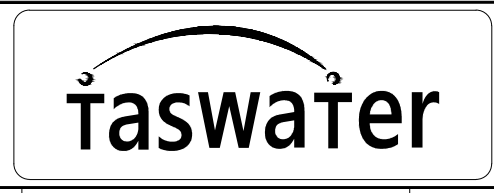


**INSTALLATION INSTRUCTIONS**

1. IDENTIFY REQUIRED CABLE LENGTH FROM DESIGN DATA, MEASURE OUT AND MARK WITH WHITE TAPE.
2. HANG FLOAT OR SENSOR INTO WET WELL WITH WHITE TAPE AT TOP OF CONCRETE AND ATTACH CABLE HANGER TO CABLE.
3. ONCE IN POSITION ATTACH CABLE TIE TO CABLE TO IDENTIFY TOP OF CLAMP POSITION.
4. ONCE IN CORRECT POSITION ATTACH CABLE TIE TO CABLE CLAMP TO ENSURE CLAMP CAN NOT RELEASE.
5. RECORD INSTALLED LENGTHS ON THIS DRAWING AND WET WELL LEVEL DRAWING.
6. ELECTRICALLY CONNECT EQUIPMENT AS SHOWN IN ELECTRICAL DRAWINGS.

TRIM REF: ASW13/19319 [V3]

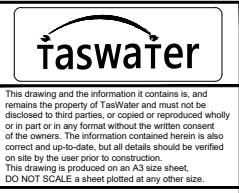
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1 - APPROVED					
A - Initial Revision					



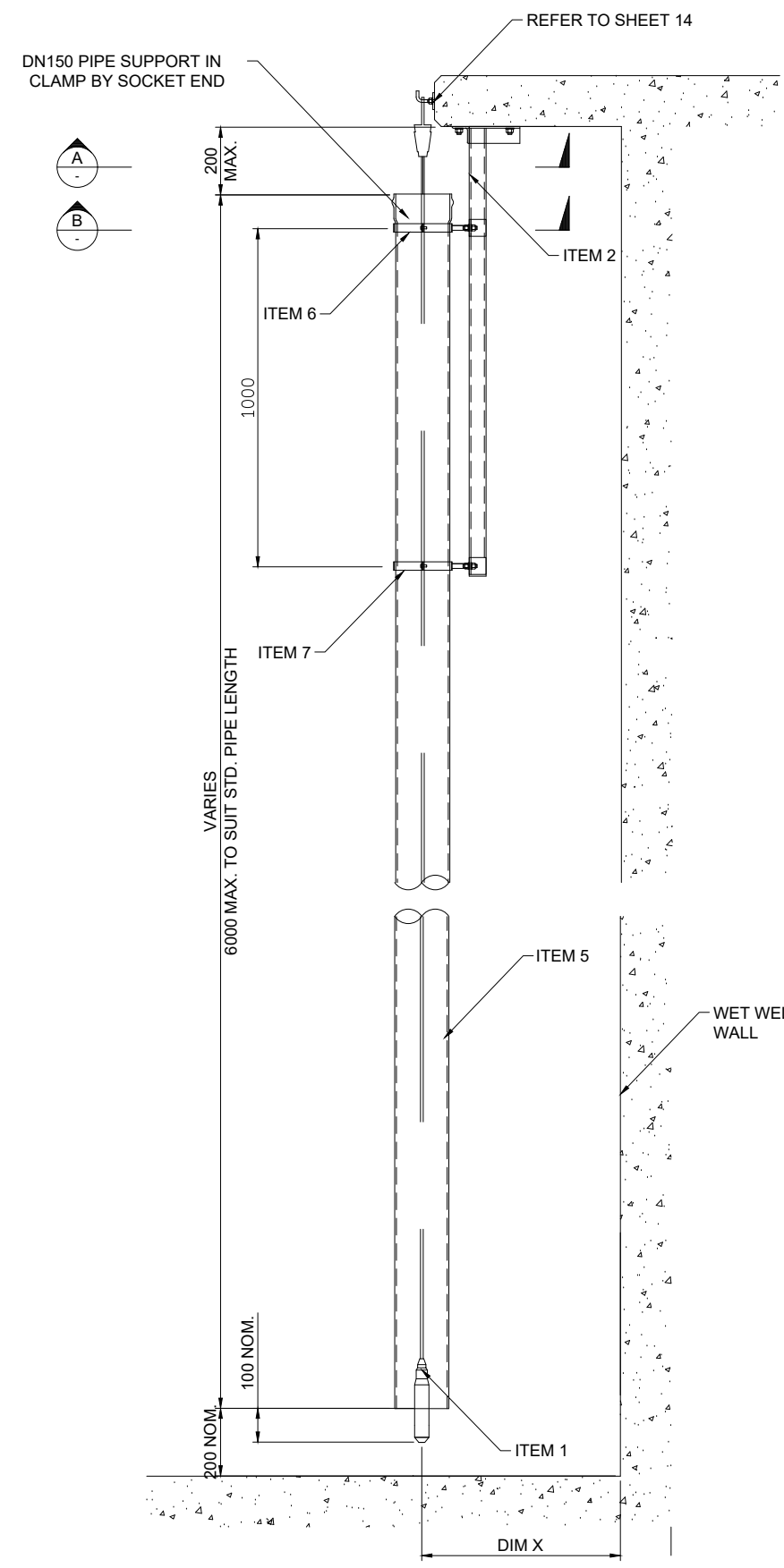
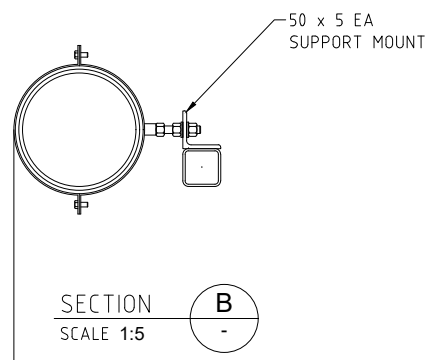
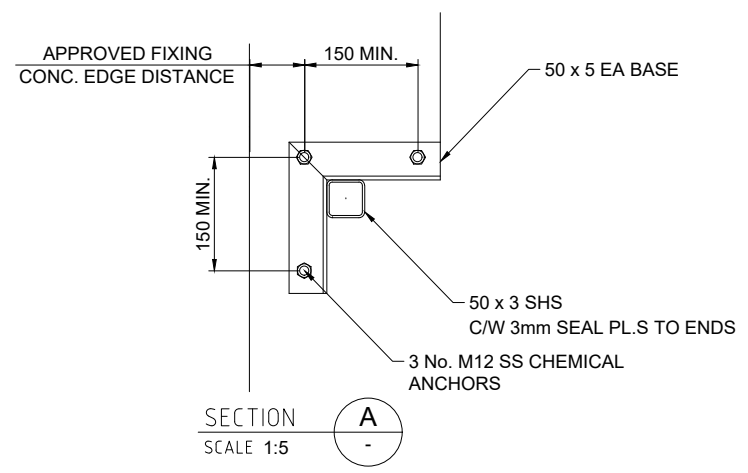
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Designed	PLJ	21/02/2022
Verified	T. Gibbs	9/3/2022
Project No.	-	Discipline
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**NOT FOR CONSTRUCTION**



TASWATER STANDARD DRAWING			
SPS DESIGN, CONSTRUCTION AND INSTALLATION			
SUPPORTING DOCUMENTATION			
Edge Mounted Level Sensor & Float Switches Installation Details			
TASMANIAN WATER & SEWERAGE CORPORATION PTY LTD ABN: 47 162220 653	Sheet Number <b>TWS-E-0038</b>	Revision 12	1



**NOTE**  
ALL MATERIAL SHALL BE GRADE 316 STAINLESS STEEL U.N.O.

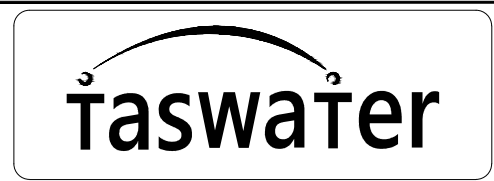
**INSTALLATION INSTRUCTIONS**

1. CONFIRM THE WET WELL ROOF CAN PROVIDE SUITABLE SUPPORT FOR THE INSTALLATION.
2. STILLING TUBE LOCATION TO BE AWAY FROM PUMP INTAKE.
3. CUT STILLING TUBE LENGTH TO SUIT & ADD FLANGE.
4. INSTALL SUPPORT BRACKETS, SUPPORT & GUIDE TO SUIT APPLICATION & SITE.
5. LOCATE STILLING TUBE IN SUPPORT & GUIDE.
6. HANG LEVEL SENSOR AS DESCRIBED ON SHEET 1
7. ENSURE THAT LEVEL SENSOR CABLE DOES NOT CHAFE ON SIDE OF STILLING TUBE.
8. FOR THE STILLING WELL TUBE EITHER-
  - a). USE 76mm DIAMETER 316 STAINLESS STEEL TUBE AND INSTALL 3x20mm DIAMETER HOLES AT 300mm CENTRES FROM THE BOTTOM TO THE OVERFLOW LEVEL.
  - OR
  - b). USE 76mm DIAMETER 316 STAINLESS STEEL PERFORATED TUBE (TP316)

ITEM SCHEDULE		
ITEM No.	No. OFF	DESCRIPTION
1	1	HYDROSTATIC LEVEL SENSOR
2	1	SUPPORT BRACKET 1. FULLY WELDED 50 x 5 316 SS SHS CONSTRUCTION C/W SS CHEMICAL ANCHORS TO CONCRETE ROOF. REFER TYPICAL DETAILS. FINAL DETAILS TO SUIT STILLING TUBE LOCATION & EXIST. WET WELL ROOF
3	1	SUPPORT BRACKET 2. 25 x 5 SS316 EA CONSTRUCTION C/W SS CHEMICAL ANCHORS TO CONCRETE WALL. DETAILS TO SUIT STILLING TUBE OFFSET FROM WALL (DIM. X)
4	1	NOT USED
5	1	STILLING PIPE, 76mm DIA 316 ST/STL TUBING TO REQ'D DEPTH. INSTALL 12mm 316 BOLT AND NUT 30mm FROM END TO SUPPORT HYD. LEVEL SENSOR.
6	1	STILLING TUBE SUPPORT, "EZYSTRUT" E7 VARIABLE "D" SS, E7-74-80 OR APPROVED EQUIVALENT, C/W SS BACKING PLATE & 1 No. M10 SS BOLT TO SUPPORT BRACKET. LOOSE FIT, DO NOT OVER TIGHTEN, PACK CLAMP IF REQD.
7	1	STILLING TUBE GUIDE, FABRICATED GUIDE RING OR PROPRIETARY GRADE 316 SS CLAMP, C/W SS BACKING PLATE & 1 No. M10 SS BOLT TO SUPPORT BRACKET.

TYPICAL ELEVATION  
SCALE 1:10

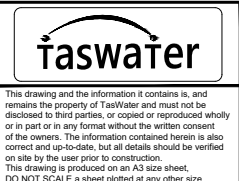
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A - Initial Revision					
Rev.	1	Date	9/3/2022	Approved	T. Gibbs



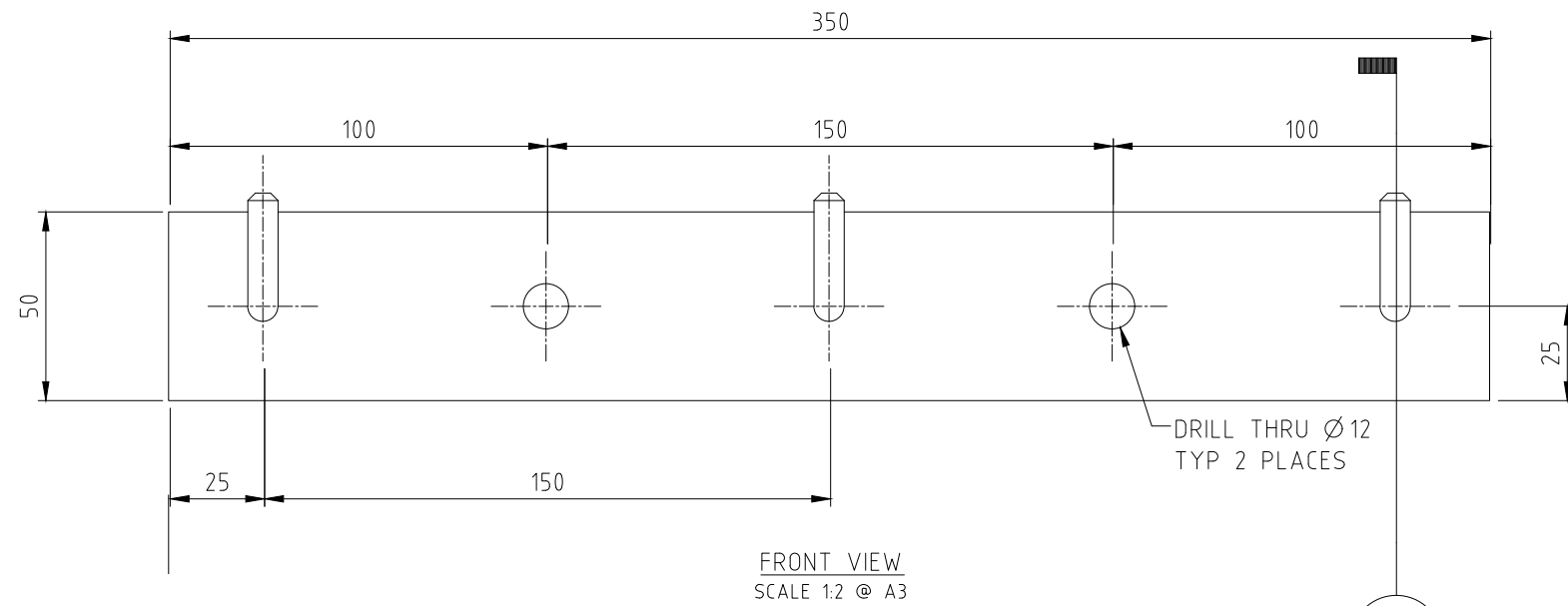
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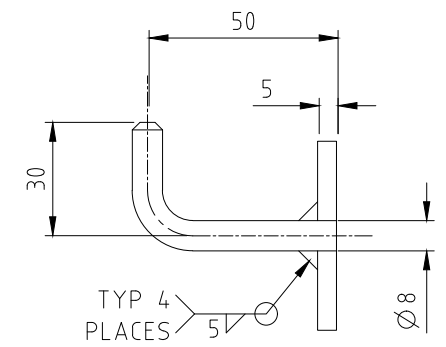
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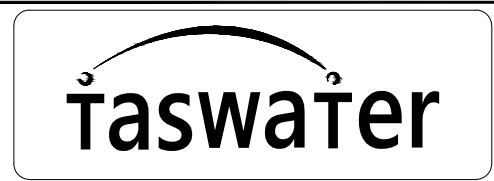
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SPS DESIGN, CONSTRUCTION AND INSTALLATION		
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Edge Mounted Stilling Tube Fabrication & Installation Details		
TASMANIAN WATER & SEWERAGE CORPORATION PTY LTD ABN: 47 162220 653	Sheet Number <b>TWS-E-0038</b>	REVISION 13 1



MATERIAL - 316 STAINLESS STEEL  
FASTENERS - 2 x M10 316 STAINLESS STEEL - MIN 50 LONG



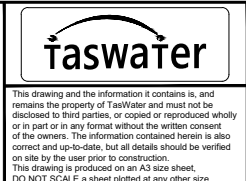
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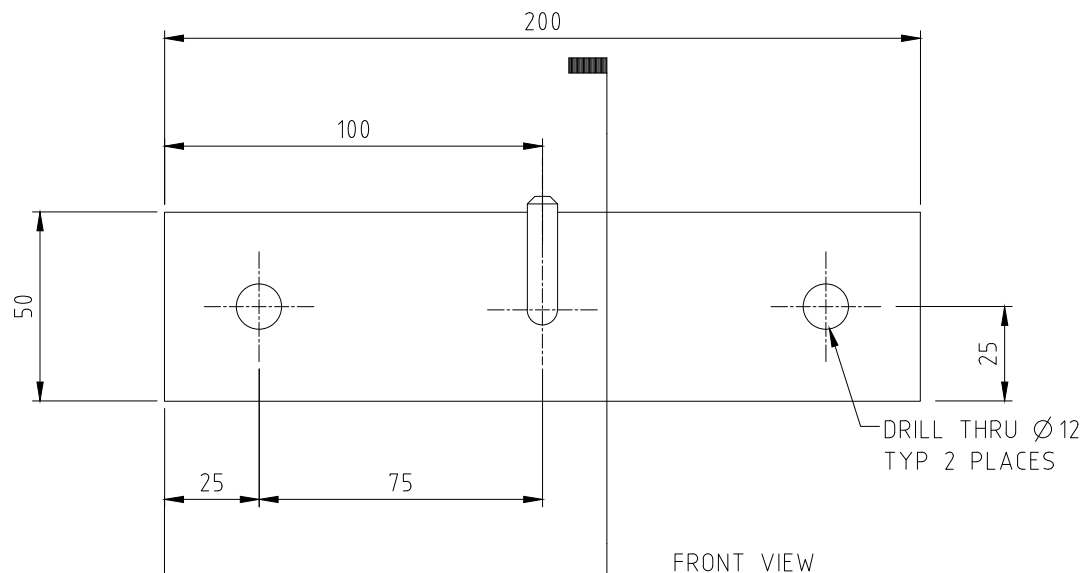
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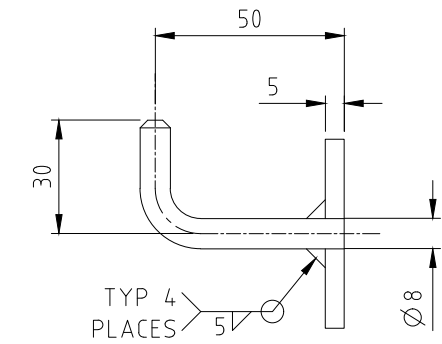


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Edge Mounted Float Support Fabrication & Installation Details			
TASMANIAN WATER & SEWERAGE CORPORATION PTY LTD ABN: 47 162220 653	Sheet Number <b>TWS-E-0038</b>	Revision 14	1



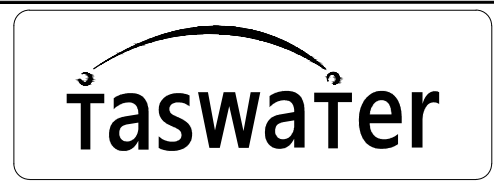
FRONT VIEW  
SCALE 1:2 @ A3

MATERIAL - 316 STAINLESS STEEL  
FASTENERS - 2 x M10 316 STAINLESS STEEL - MIN 50 LONG



SECTION A  
SCALE 1:2 @ A3

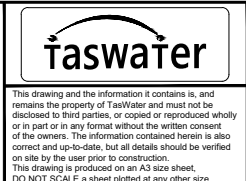
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Rev.	1	Date	9/3/2022	Approved	T. Gibbs



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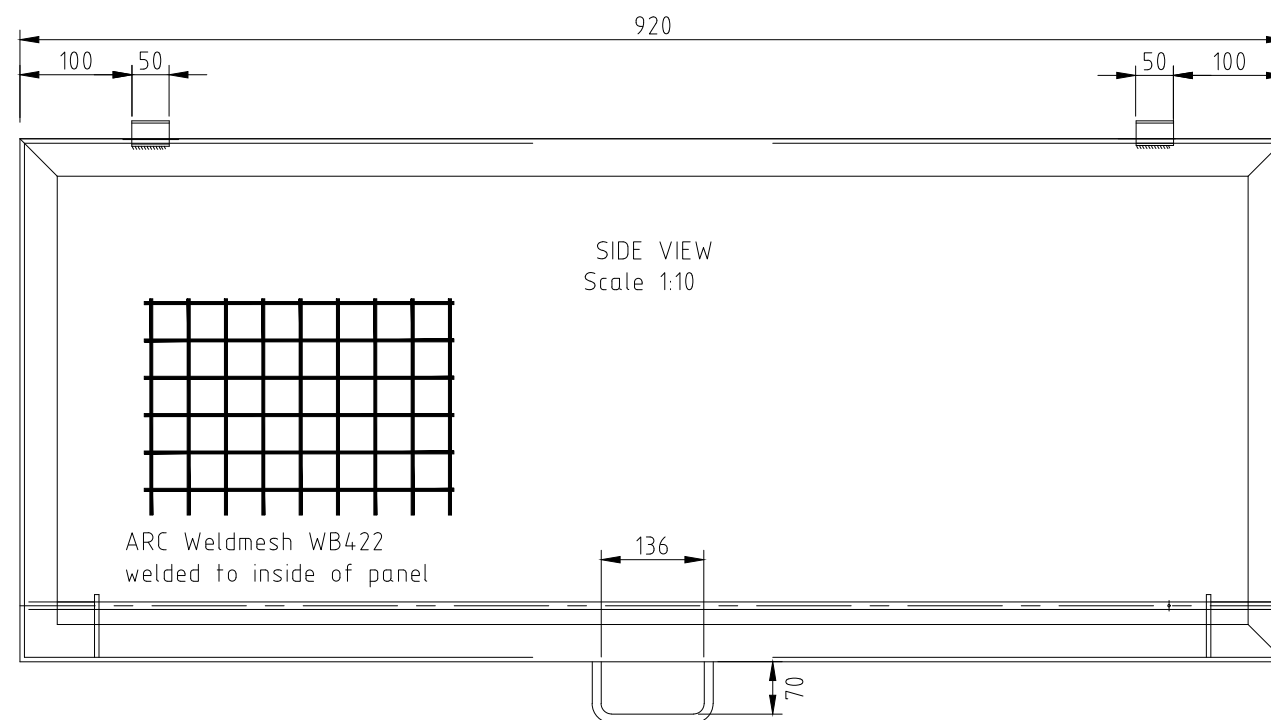
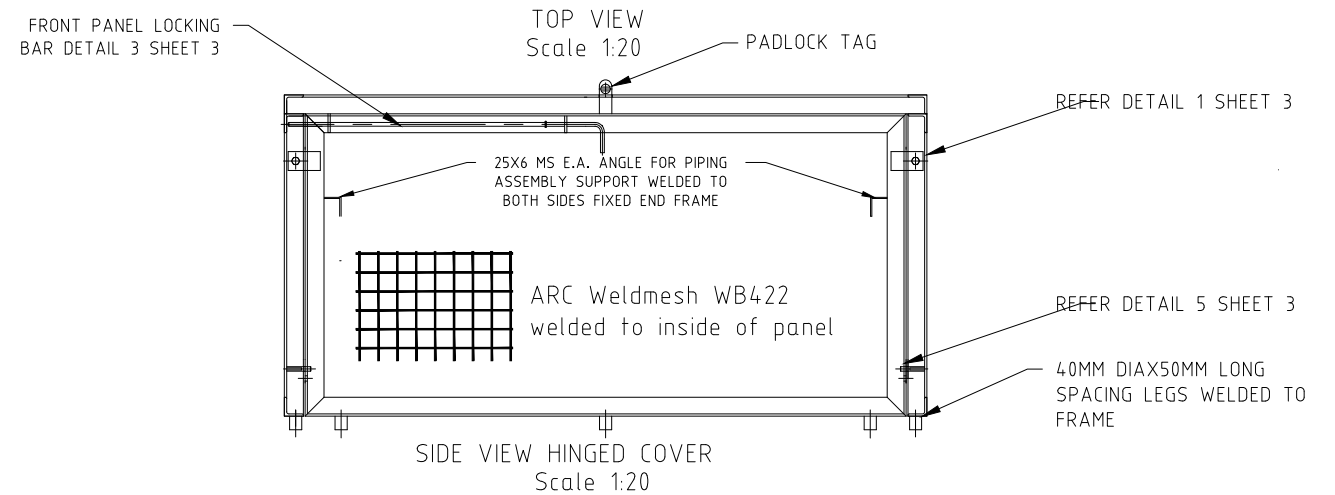
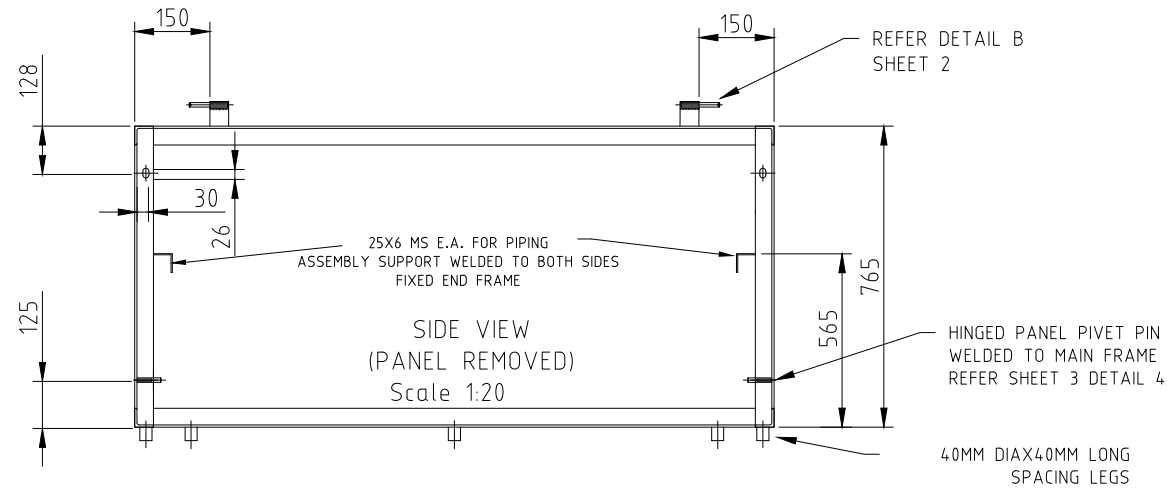
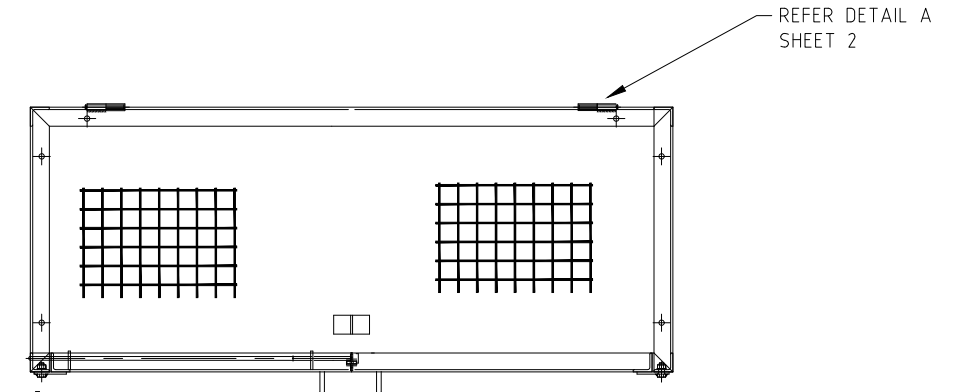
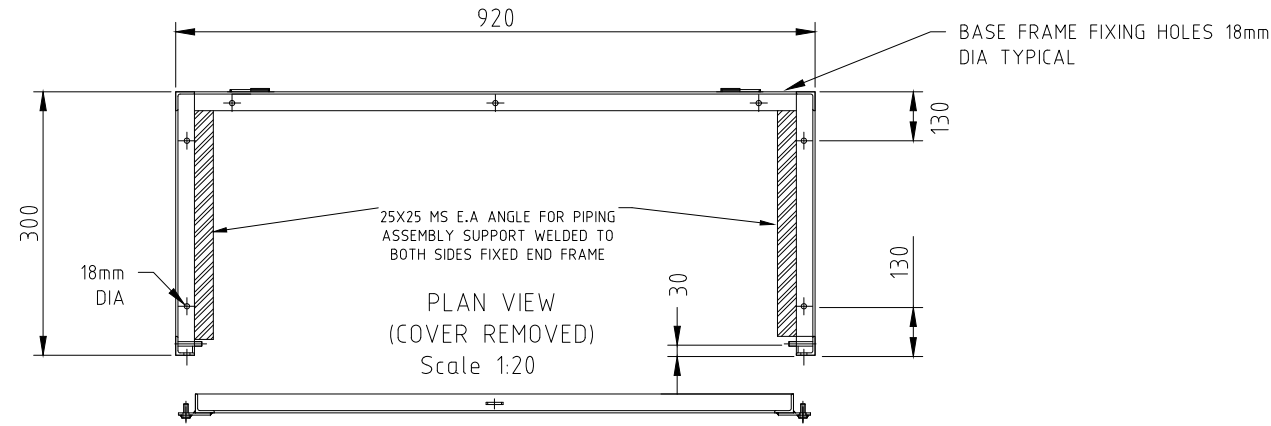
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Designed	PLJ	21/02/2022
Verified	T. Gibbs	9/3/2022
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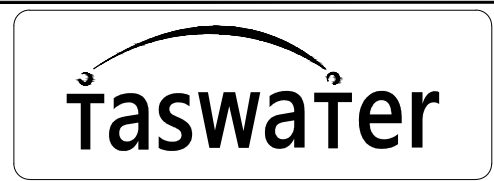


TASWATER STANDARD DRAWING			
SPS DESIGN, CONSTRUCTION AND INSTALLATION			
SUPPORTING DOCUMENTATION			
Edge Mounted Cable Support Fabrication & Installation Details			
TASMANIAN WATER & SEWERAGE CORPORATION PTY LTD ABN: 47 162220 653	Sheet Number <b>TWS-E-0038</b>	Revision 15	1

ALL FRAMEWORK IS 50X50X6 MILD STEEL ANGLE HOT DIPPED GALVANISED AFTER MANUFACTURE  
 ALL WELDS TO BE CONTINUOUS FILLET OR BUTT WELDS & GROUND FLUSH ON FRAMEWORK.  
 DEBURR & REMOVE ALL SHARP EDGES.  
 PROVIDE DRAIN HOLES FOR HOT DIPPED GALVANISING.



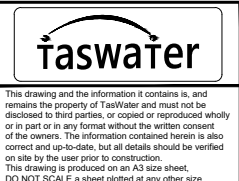
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Rev.	1	Date	9/3/2022	Approved	T. Gibbs
1 - APPROVED A - Initial Revision					



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Project No.	-	Discipline
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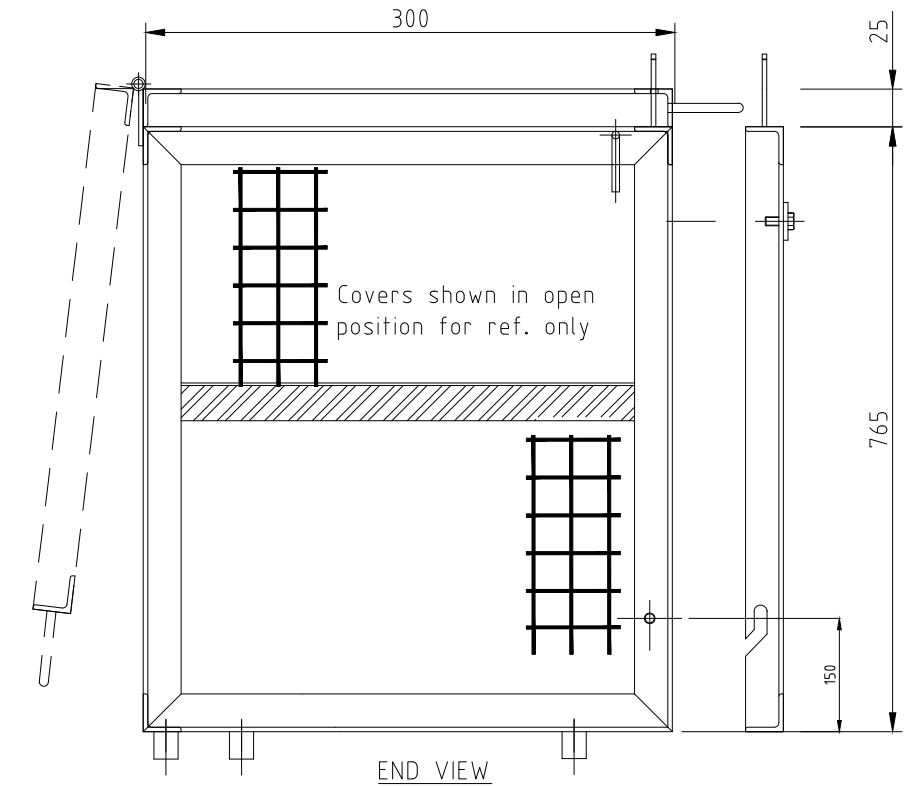
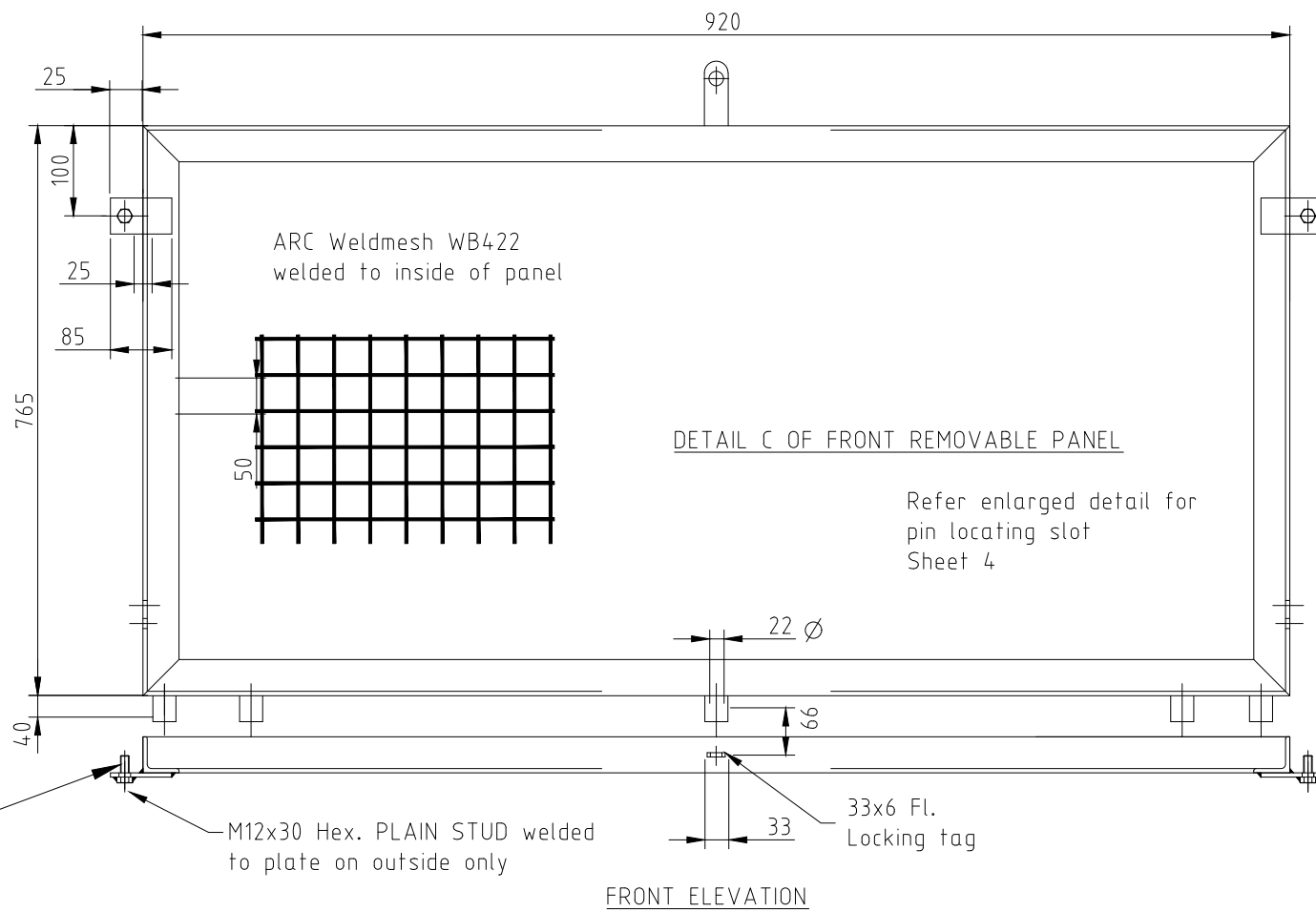
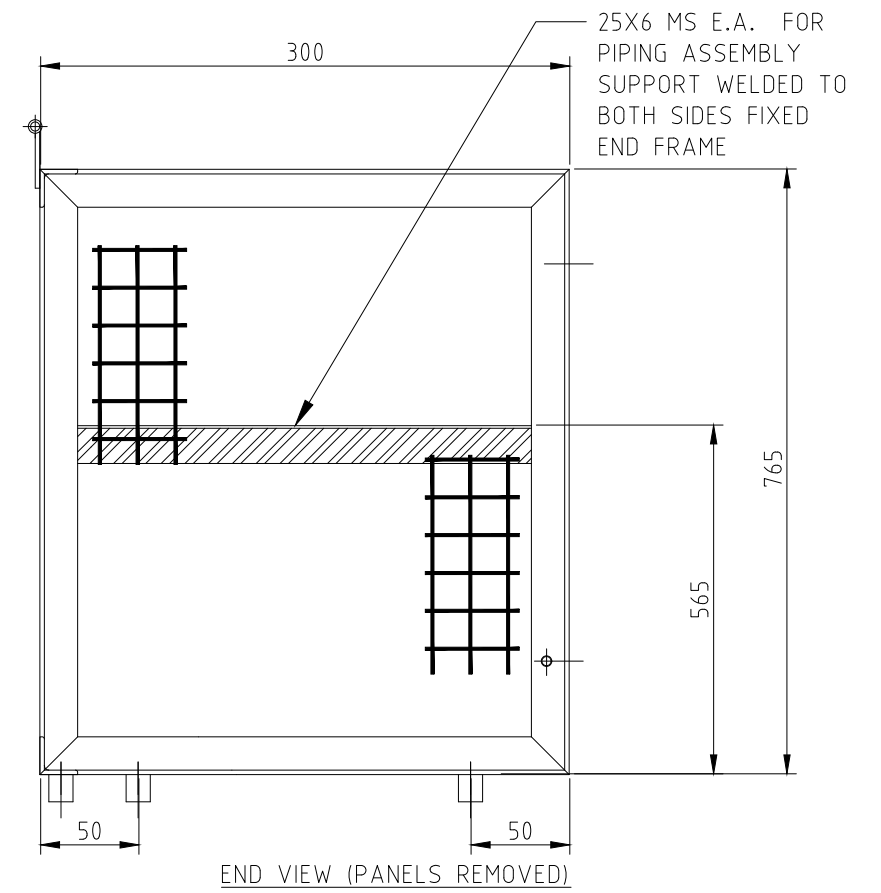
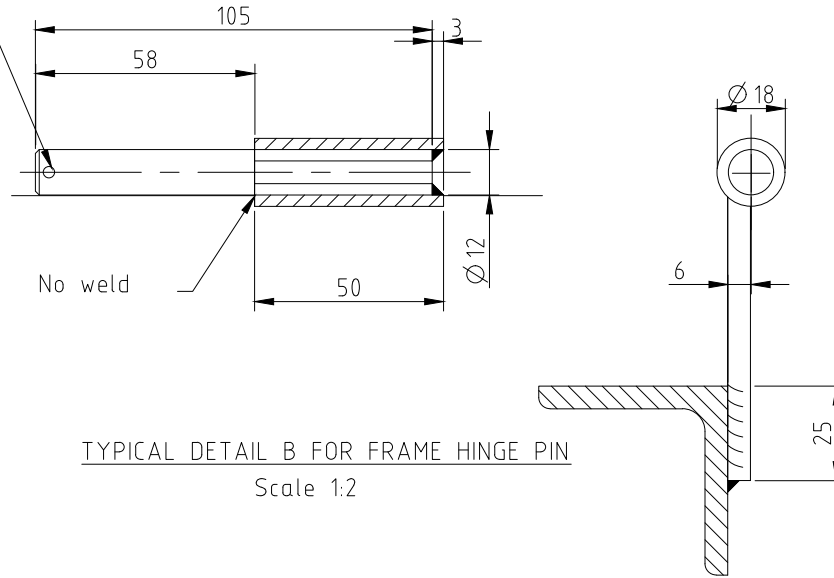
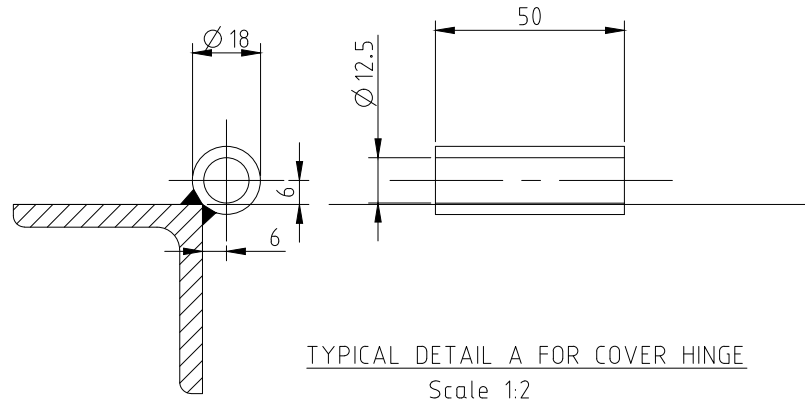


TASWATER STANDARD DRAWING			
SPS DESIGN, CONSTRUCTION AND INSTALLATION			
SUPPORTING DOCUMENTATION			
SPS RPZD CAGE AND FABRICATION DETAILS - SHEET 1 of 4			
TASMANIAN WATER & SEWERAGE CORPORATION PTY LTD ABN: 47 162220 653	Sheet Number <b>TWS-E-0038</b>	Revision 16	1

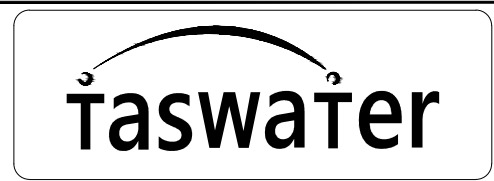


ALL FRAMEWORK IS 50X50X6 MILD STEEL ANGLE.  
 COMPLETE ASSEMBLY HDG AFTER MANUFACTURE  
 ALL WELDS TO BE CONTINUOUS FILLET OR BUTT WELDS &  
 GROUND FLUSH ON FRAMEWORK.  
 DEBURR & REMOVE ALL SHARP EDGES.  
 PROVIDE DRAIN HOLES FOR GALVANISING.

Install sel-lok  
 pin  $\varnothing 3 \times 18$   
 after covers  
 are installed



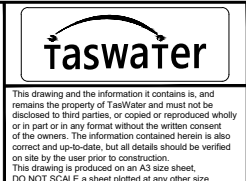
Revision Notes				
1 - APPROVED				
A - Initial Revision				
Rev.	1	Date	9/3/2022	Approved
				T. Gibbs



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Datum	-
Sheet Size	A3
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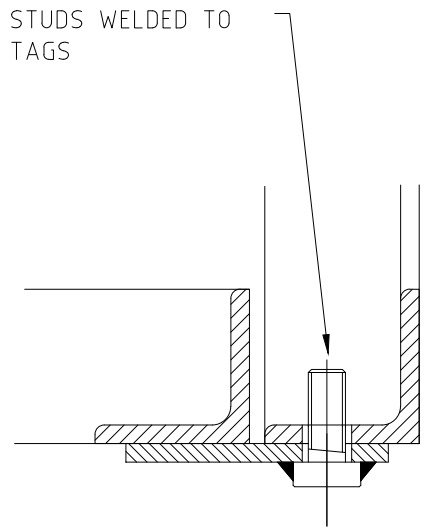
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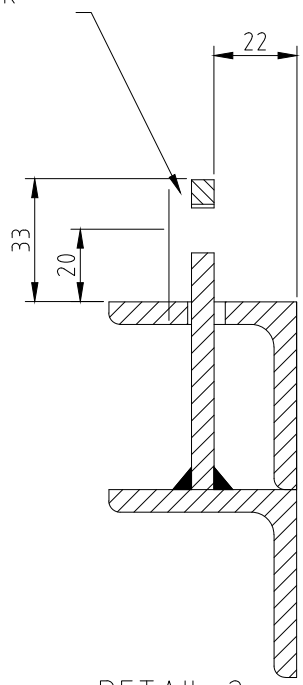
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SPS RPZD CAGE AND FABRICATION DETAILS - SHEET 2 of 4			
TASMANIAN WATER & SEWERAGE CORPORATION PTY LTD ABN: 47 162220 653	Sheet Number <b>TWS-E-0038</b>	REVISION 17	1

FRONT PANEL SECURED IN PLACE WITH 2X 10MM STUDS WELDED TO THE MOUNTING TAGS

12Ø HOLE FOR LOCK

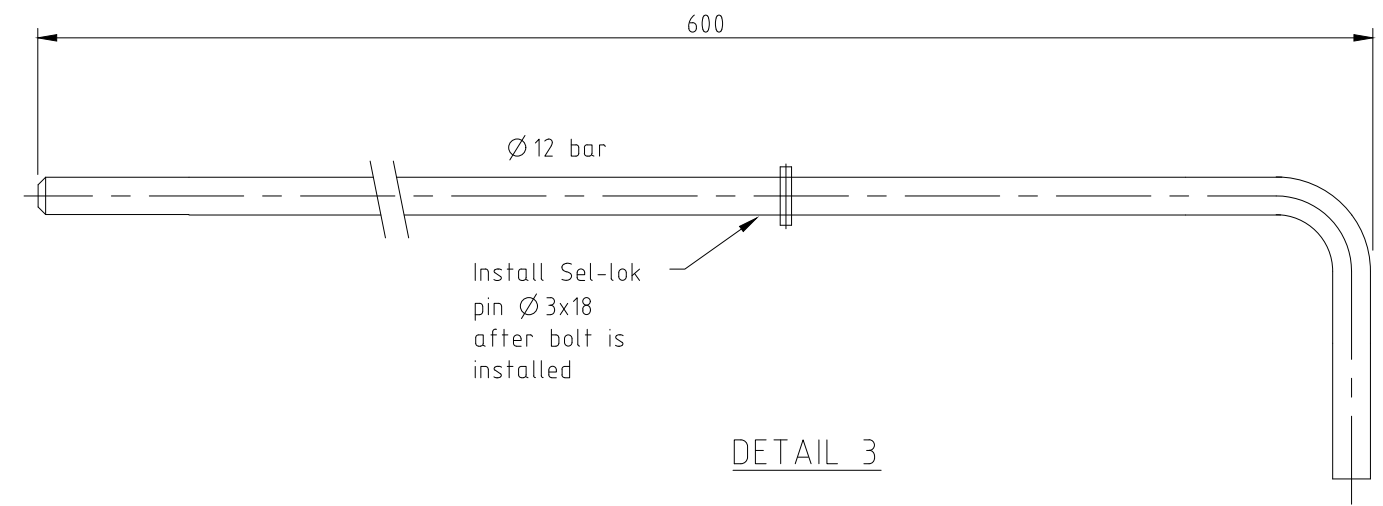


DETAIL 1



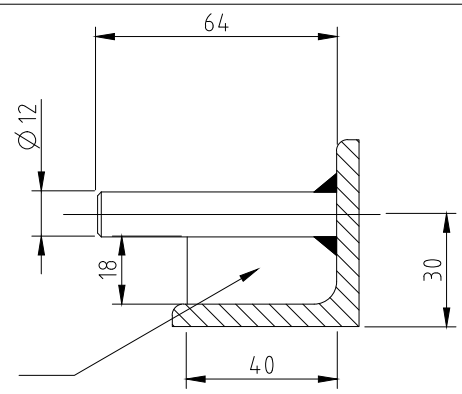
DETAIL 2

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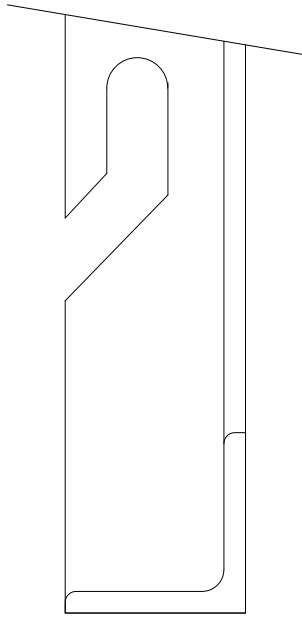
DETAIL 3

TYPICAL DETAIL FOR PANEL FIXING



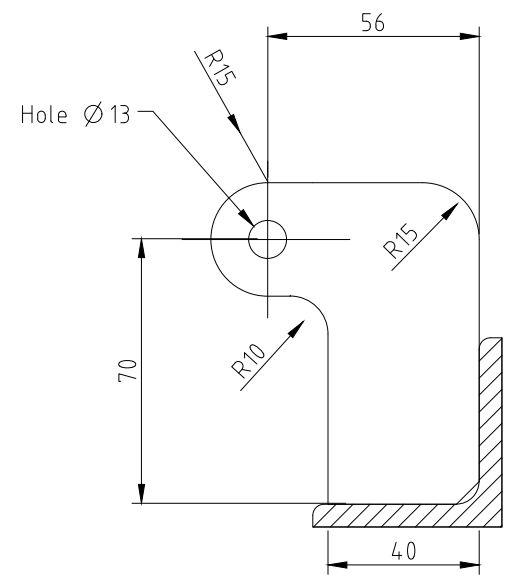
TYPICAL DETAIL FOR LOCATING PIN

DETAIL 4



TYPICAL DETAIL FOR PIN LOCATING SLOT

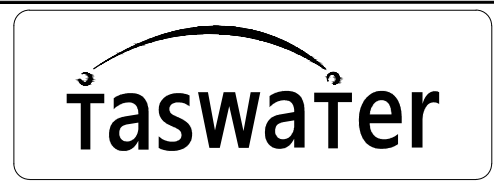
DETAIL 5



SLIDING BOLT BRACKET DETAILS

DETAIL 6

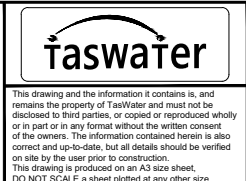
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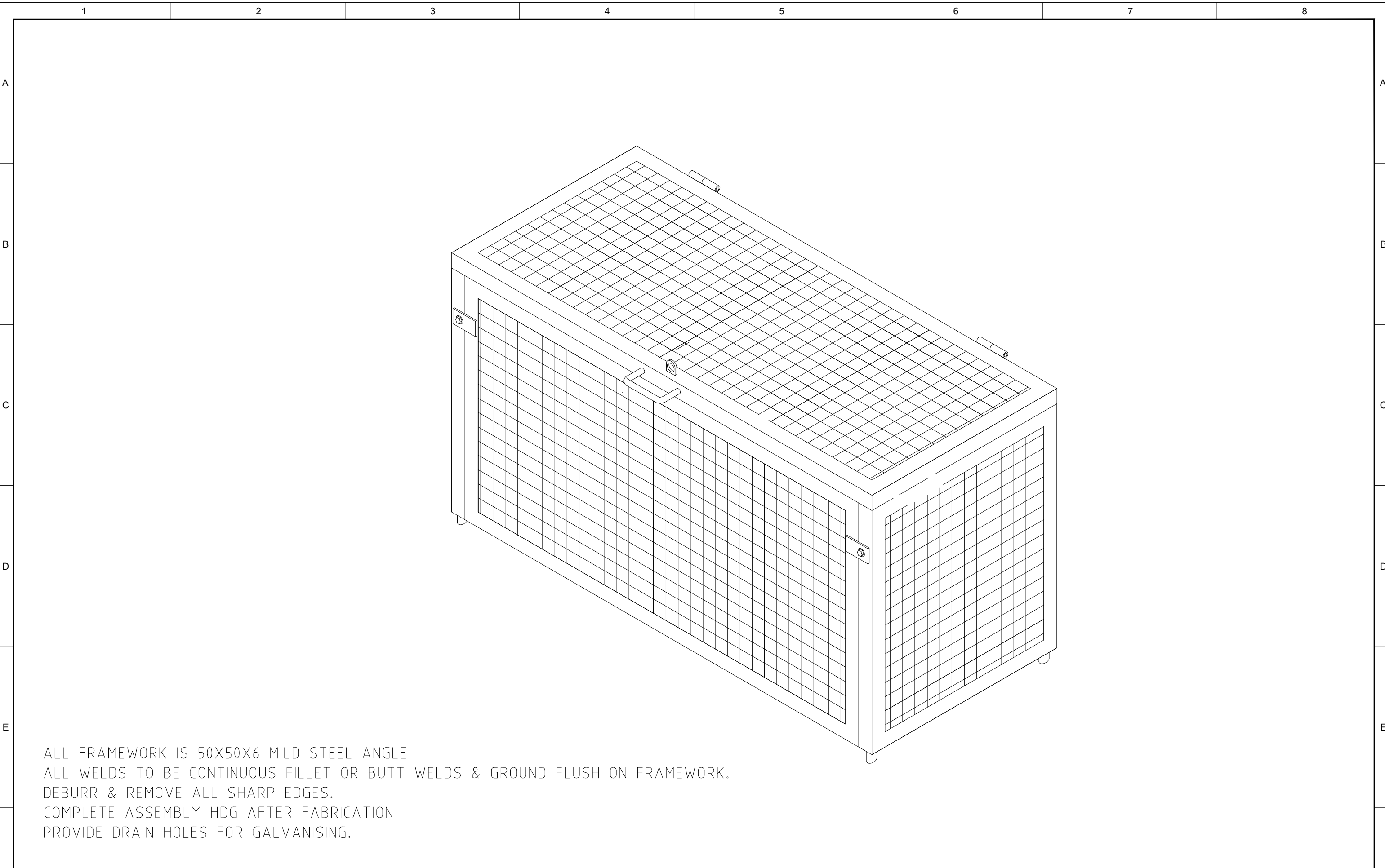
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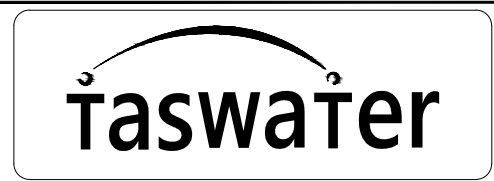


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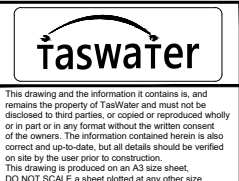
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		TWS-E-0038	19
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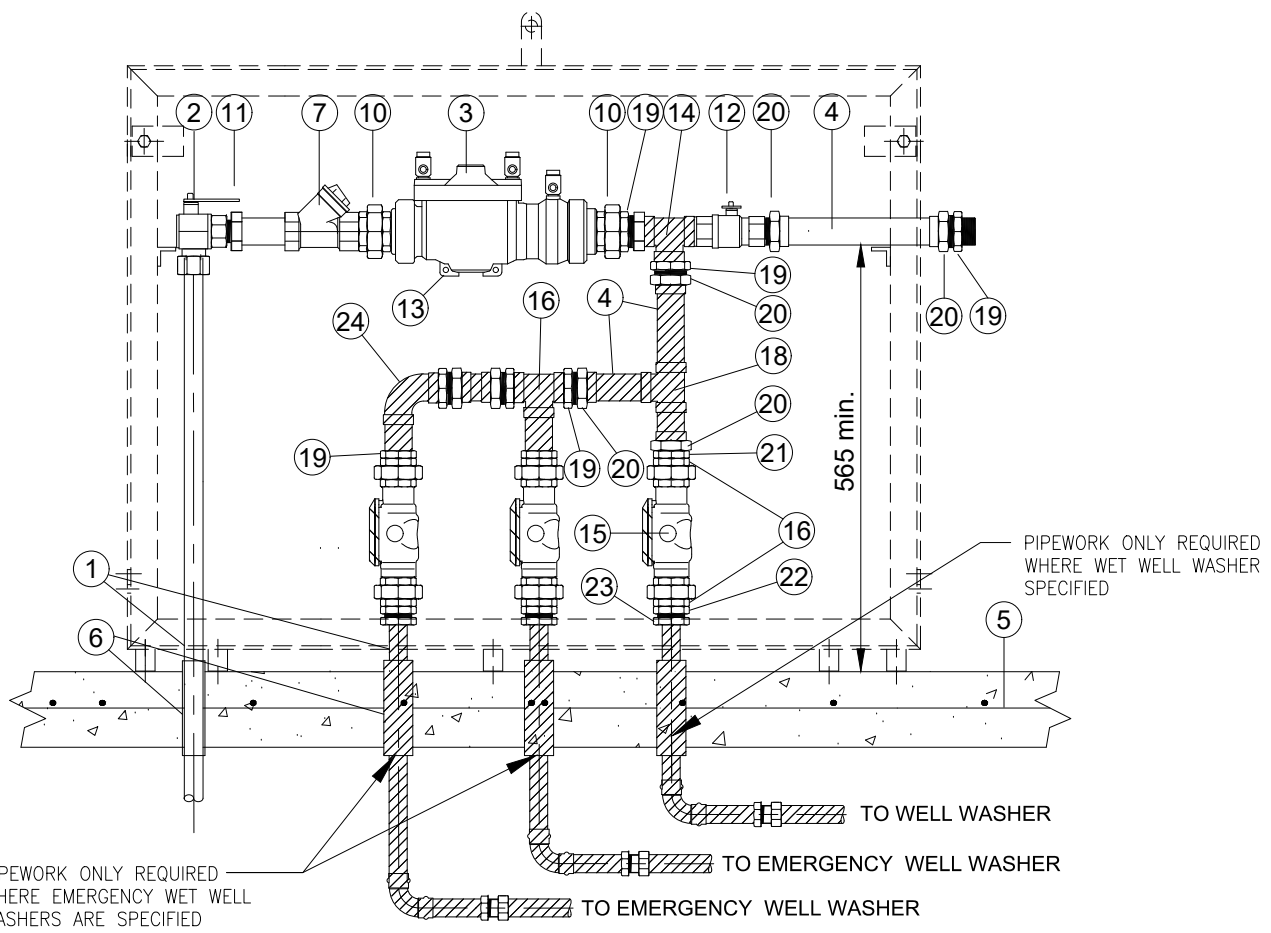
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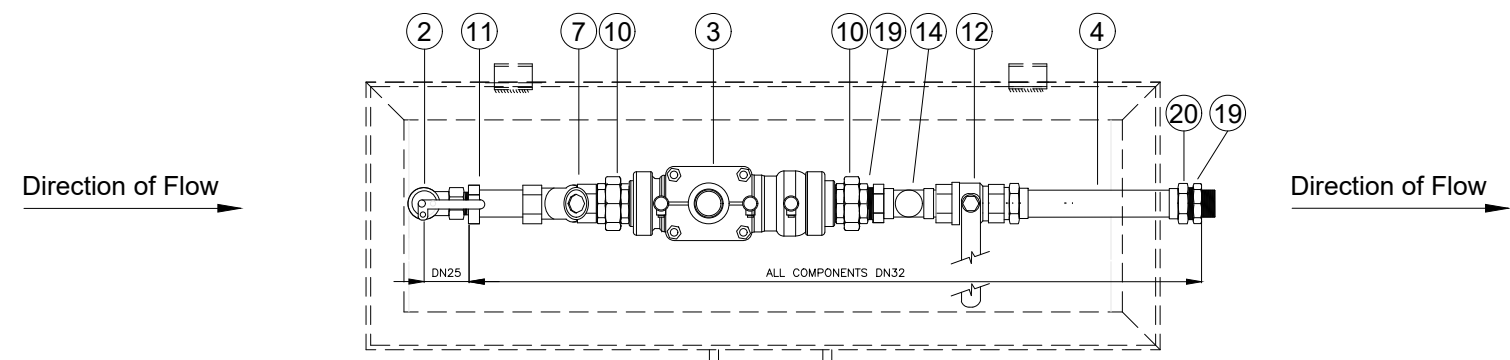
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**ELEVATION**



**PLAN**

BOUNDARY CONNECTION PARTS LIST		
No.	DESCRIPTION	COMMENTS
①	DN.25 Type 'B' Copper Pipework	
②	DN.25 Right Angled Ball Valve	
③	High hazard DN.32 'ValvCheQ' RPZD RP03 Valve Only	
④	DN.32 Type 'B' Copper Pipework	
⑤	100mm (minimum) Reinforced Concrete Slab	
⑥	Pipe Wrapped where Concrete will contact Pipe	SL72 placed central
⑦	DN.32 Strainer	
⑧	B-Press Fittings or Equivalent	
⑨	DN.32 x 25 Fem x Fem BSP Reducing Tee	
⑩	DN32 ST/STL Barrel Union	
⑪	DN.25-32 Reducing Nipple	
⑫	DN.32 Ball Valve - Lockable Quarter Turn brass DZR with brass handle, resilient seated	DN32 Male Brass BSP Connection
⑬	Vent only applies to RPZD	
⑭	DN32 Female BSP Brass Tee	Only required when wetwell are installed
⑮	DN. 25 24V DC 2 Way Hi Flow Soft closing St/Steel EPDM Sol. Valve	DN25 Female BSP Brass Connection
⑯	DN25 Barrel Union Male to Female Brass 25mm	
⑰	DN25 TREADED ADAPTOR	
⑱	DN32 Type B Copper Tee	
⑲	Nipple Hex 32mm	
⑳	Tube Bush 32mm Female Brass	
㉑	Nipple Hex 32x25mm	
㉒	Tube Bush 25mm Female Brass	
㉓	Nipple Hex 25mm	
㉔	Brass Elbow DN32	Female - Female

**VALVE & EQUIPMENT SCHEDULE**

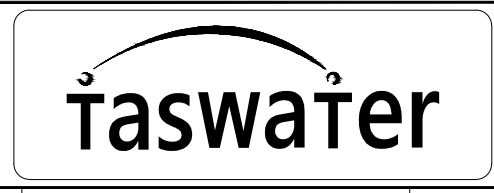
1. Only use products with watermark certification and approved for use by TasWater and listed within City West Water's approved products catalogue.
2. Installation must comply with manufacturer's written instructions.
3. All valves must be resilient seated, clockwise closing to AS 1628 with 316 stainless steel bolts and washers.



**GENERAL NOTES**

1. All dimensions in millimeters (mm), unless noted otherwise.
2. A 3mm clearance has been added where a gasket is required.
3. All metallic pipe work to be 'Denso' wrapped, or equivalent where it comes in contact with concrete - to protect it from corrosion.

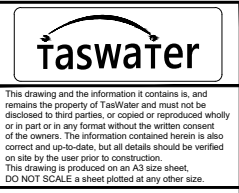
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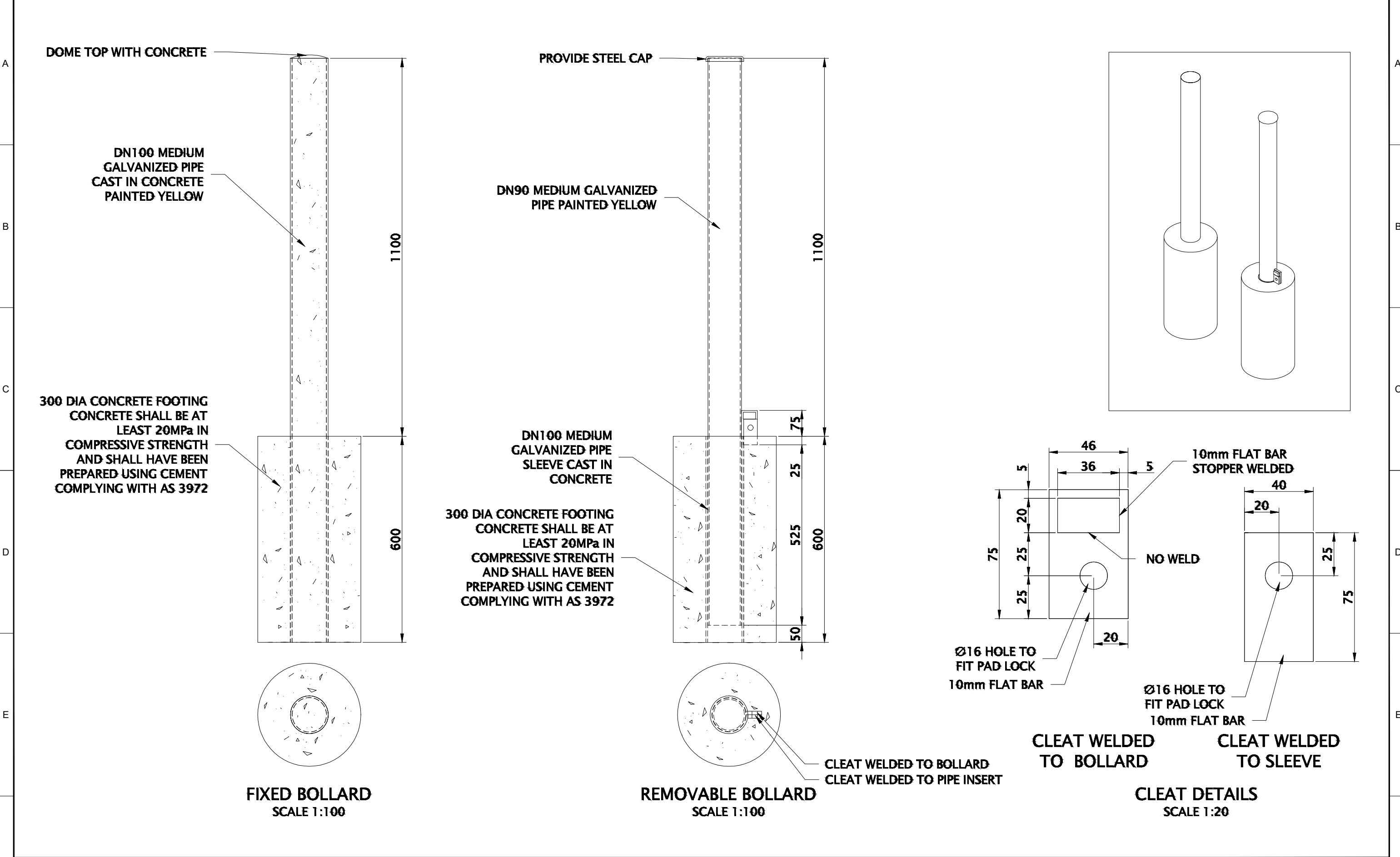
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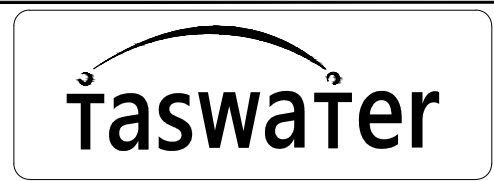
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SPS RPZD PIPEWORK DETAILS			
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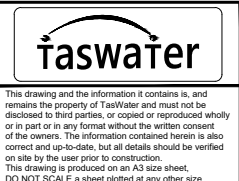


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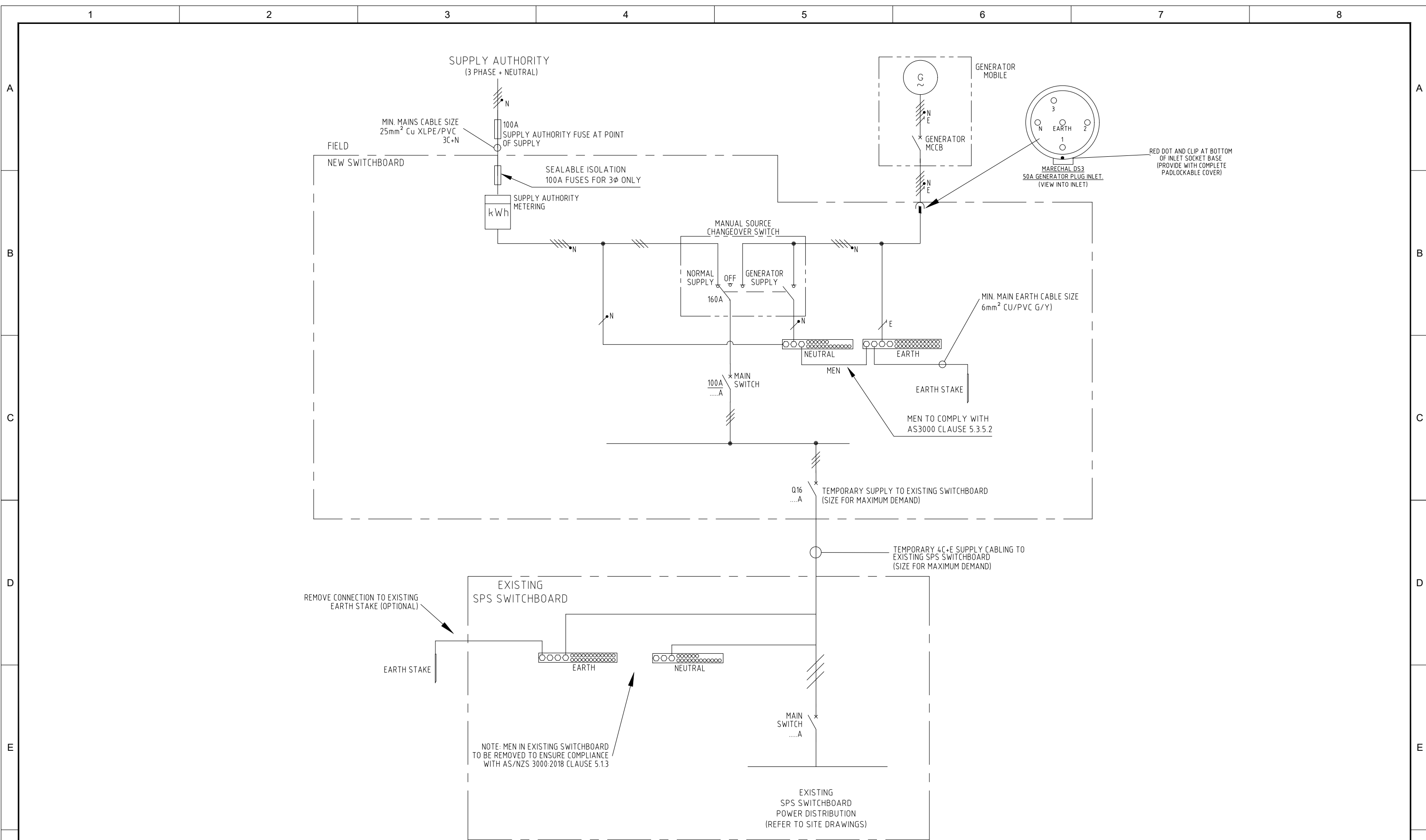
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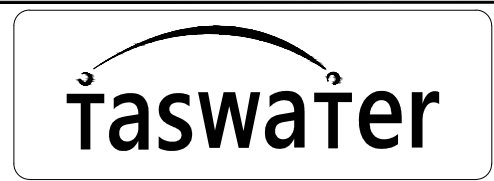


<b>TASWATER STANDARD DRAWING</b>			
<b>SPS DESIGN, CONSTRUCTION AND INSTALLATION</b>			
<b>SUPPORTING DOCUMENTATION</b>			
<b>BOLLARDS - PLANS AND DETAILS</b>			
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**TEMPORARY SUPPLY WHILE NEW SWITCHBOARD BACKFEEDS THE OLD SWITCHBOARD PRIOR TO COMMISSIONING**

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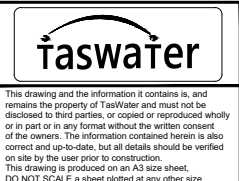


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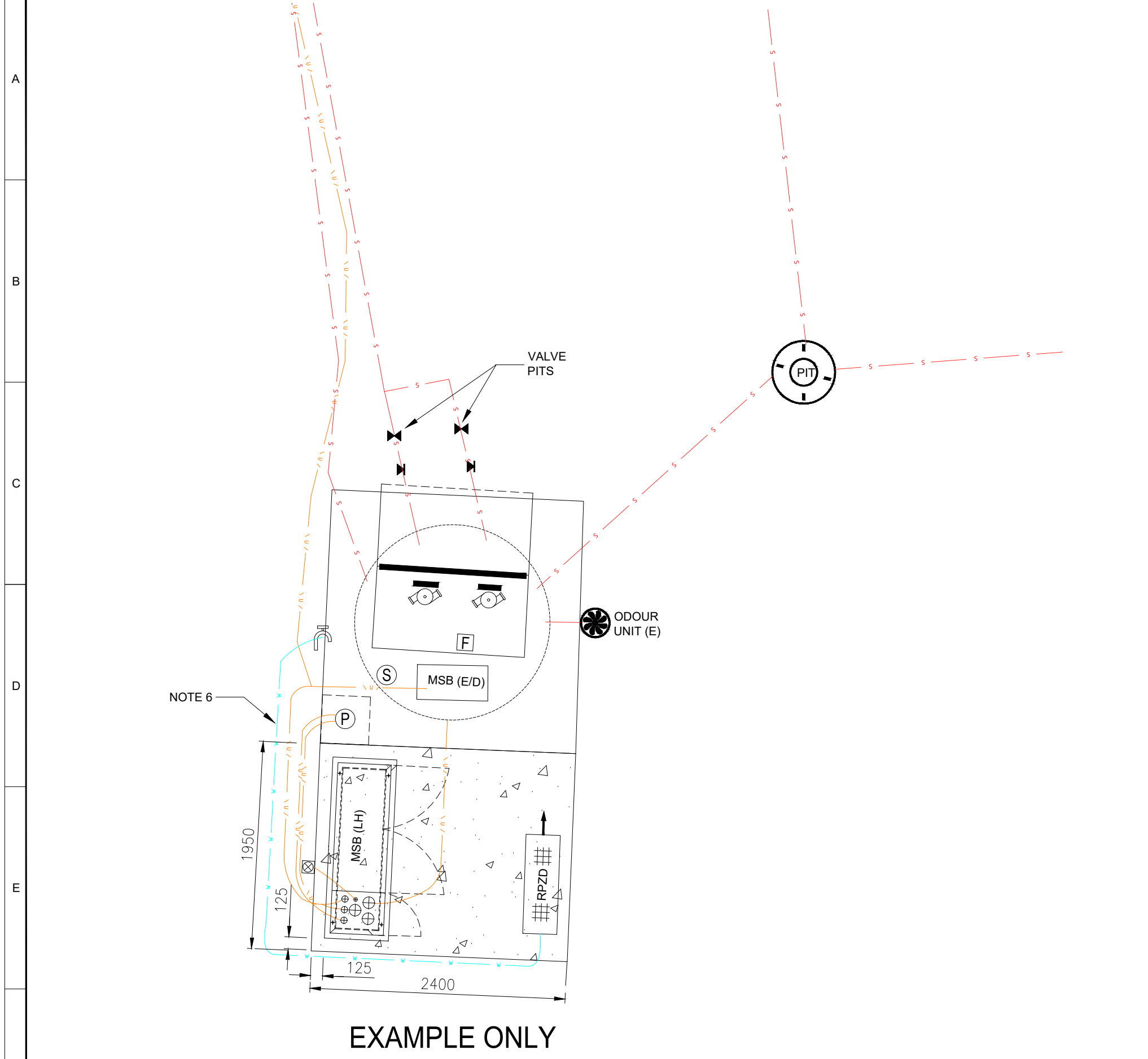
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<b>SPS DESIGN, CONSTRUCTION AND INSTALLATION</b>		
<b>SUPPORTING DOCUMENTATION</b>		
<b>SPS TEMPORARY SUPPLY - SINGLE LINE DIAGRAM</b>		
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- NOTES:**
1. FOR ALL CIVIL WORK DETAILS INCLUDING NEW CONCRETE SLAB DETAILS, EXISTING SLAB TIE-IN DETAILS AND CONDUIT INSTALLATION DETAILS REFER TO TWS-E-0038 SHEETS 6 & 7
  2. EXACT LOCATIONS OF SUPPORT BRACKETS AND CONDUITS TO BE CONFIRMED ON SITE.
  3. WET WELL WALL IS ACCESSIBLE, UNDER SLAB APRON, FOR CONDUIT ENTRY WITHOUT THE NEED TO CUT, EXCAVATE AND REINSTATE THE EXISTING SLAB.
  4. INSTALL 1x25mm HD ORANGE CONDUIT FOR POWER TO NEW SWIVEL POLE LED FLOODLIGHT AND INSTALL 1x25mm HD WHITE CONDUIT FOR ANTENNA CABLE. (AS REQUIRED)
  5. RE-USE EXISTING CONSUMER MAINS AND RE-ROUTE TO NEW MSB LOCATION.
  6. PROVIDE NEW RPZD AND CAGE, EXTEND EXISTING WATER LINE TO NEW LOCATION, (AS REQUIRED)

**LEGEND:**

	UNDERGROUND STORMWATER		BOUNDARY
	UNDERGROUND SEWER		FENCE
	UNDERGROUND WATER		PUMP RAILS
	UNDERGROUND ELECTRICAL		
	OVERHEAD ELECTRICAL LINE		

	NEW TASWATER STANDARD SMALL SPS SWITCHBOARD - LH		NEW TASWATER STANDARD SMALL SPS SWITCHBOARD - RH
	NEW CONCRETE SLAB EXTENSION		REDUCED PRESSURE ZONE DEVICE (REFER SHEETS 16 TO 19 CAGE DETAILS REFER SHEET 20 PIPEWORK & FITTING DETAILS)

- (S) STILLING WELL, CORE HOLE MOUNTED (REFER TWS-E-0038 SHEET 9)
- (S) STILLING WELL EDGE MOUNT (REFER TWS-E-0038 SHEET 13)
- (F) FLOAT SUPPORT BRACKET, CORE HOLE MOUNTED (REFER TWS-E-0038 SHEET 11)
- (F) FLOAT SUPPORT BRACKET EDGE MOUNT (REFER TWS-E-0038 SHEET 14)
- (C) CABLE SUPPORT BRACKET, CORE HOLE MOUNTED (REFER TWS-E-0038 SHEET 10)
- (C) CABLE SUPPORT BRACKET EDGE MOUNT (REFER TWS-E-0038 SHEET 15)
- (P) SWIVEL POLE (REFER DRG. TWS-E-0016)
- (⊗) MAIN EARTH ELECTRODE AND ENCLOSURE (REFER TO SCOPE OF WORKS)
- (B) REMOVABLE BOLLARD (REFER TWS-E-0038 SHEET 21)
- (B) FIXED BOLLARD (REFER TWS-E-0038 SHEET 21)
- E DENOTES EXISTING
- D DONATES TO BE DEMOLISHED/REMOVED

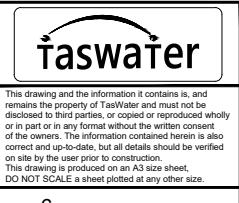
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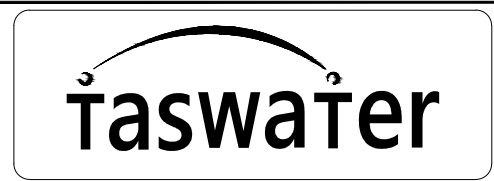
**TASWATER STANDARD DRAWING**  
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SPS SITE PLAN TEMPLATE

TASMANIAN WATER & SEWERAGE CORPORATION PTY LTD ABN: 47 162220 653	Sheet Number <b>TWS-E-0038</b>	Revision 23	1
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B							B
C							C
D							D
E							E
F	<p style="margin: 0;">SITE LOCATION MAP</p>			<p style="margin: 0;">SITE PHOTOS</p>			F

NOTE: UPDATE WITH AS INSTALLED PHOTOS ON "AS CONSTRUCTED" DRAWING ISSUE

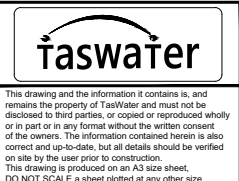
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<b>SUPPORTING DOCUMENTATION</b>			
<b>SPS SITE PHOTOS AND LOCATION MAP TEMPLATE</b>			
TASMANIAN WATER & SEWERAGE CORPORATION PTY LTD ABN: 47 162220 653	Drawing Number	TWS-E-0038	Sheet Number 24
		REVISION	1