DEVAN PLASTICS STANDARD DESIGN FOR UNDERGROUND TANKS

JOB NO. 059-003

CLIENT

DEVAN PLASTICS



FOR CONSTRUCTION

	DRAWING LIST				DRAWING LIST		
SHEET NO.	SHEET	REVISION	REVISION DATE	SHEET NO.	SHEET	REVISION R	EVISION DATE
G-000	COVER PAGE	1	16.04.25	S 300	RESIDENTIAL TRAFFIC LOADING WITHOUT ANCHORS- TRIPLE TANK	1	16.04.25
G-001	GENERAL NOTES 1	1	16.04.25	3-300	INSTALLATION INSTRUCTIONS - SLAB ON GOOD GROUND	1	10.04.25
G-002	GENERAL NOTES 2	1	16.04.25	S-301	RESIDENTIAL TRAFFIC LOADING - TRIPLE TANK INSTALLATION INSTRUCTIONS	1	16.04.25
S-001	NON-TRAFFICABLE SINGLE TANK INSTALLATION INSTRUCTIONS WITHOUT ANCHORS	1	16.04.25	S-302	RESIDENTIAL TRAFFIC LOADING WITHOUT ANCHORS - TRIPLE TANK	1	16.04.25
S-002	NON-TRAFFICABLE SINGLE TANK INSTALLATION INSTRUCTIONS WITH ANCHORS	1	16.04.25	0-002	INSTALLATION INSTRUCTIONS - SLAB ON CLASS M EXPANSIVE SOIL	1	10.04.25
S-003	NON-TRAFFICABLE DOUBLE TANK INSTALLATION INSTRUCTIONS WITHOUT ANCHORS	1	16.04.25	S-303	RESIDENTIAL TRAFFIC LOADING - TRIPLE TANK INSTALLATION INSTRUCTIONS WITH ANCHORS - SLAB ON CLASS M EXPANSIVE SOIL	1	16.04.25
S-004	NON-TRAFFICABLE DOUBLE TANK INSTALLATION INSTRUCTIONS WITH ANCHORS	1	16.04.25	S-304	RESIDENTIAL TRAFFIC LOADING WITHOUT ANCHORS - TRIPLE TANK	1	16.04.25
S-005	NON-TRAFFICABLE TRIPLE TANK INSTALLATION INSTRUCTIONS WITHOUT ANCHORS	1	16.04.25	S-305	RESIDENTIAL TRAFFIC LOADING - TRIPLE TANK INSTALLATION INSTRUCTIONS	1	16 04 25
S-006	NON-TRAFFICABLE TRIPLE TANK INSTALLATION INSTRUCTIONS WITH ANCHORS	1	16.04.25	0-000	WITH ANCHORS - SLAB ON CLASS H2 EXPANSIVE SOIL	'	10.04.20
S-102	RESIDENTIAL TRAFFIC LOADING - SINGLE TANK INSTALLATION INSTRUCTIONS	1	16.04.25	S-400	HN COMMERCIAL TRAFFIC LOADING - SINGLE TANK INSTALLATION INSTRUCTIONS WITHOUT ANCHORS - SLAB ON GOOD GROUND	1	16.04.25
S-103	RESIDENTIAL TRAFFIC LOADING - SINGLE TANK INSTALLATION INSTRUCTIONS	1	16.04.25	S-401	HN COMMERCIAL TRAFFIC LOADING - SINGLE TANK INSTALLATION INSTRUCTIONS WITH ANCHORS - SLAB ON GOOD GROUND	1	16.04.25
S-104	RESIDENTIAL TRAFFIC LOADING - SINGLE TANK INSTALLATION INSTRUCTIONS	1	16.04.25	S-402	HN COMMERCIAL TRAFFIC LOADING - SINGLE TANK INSTALLATION INSTRUCTIONS WITHOUT ANCHORS - SLAB ON CLASS M EXPANSIVE SOIL	1	16.04.25
S-105	RESIDENTIAL TRAFFIC LOADING - SINGLE TANK INSTALLATION INSTRUCTIONS	1	16.04.25	S-403	HN COMMERCIAL TRAFFIC LOADING - SINGLE TANK INSTALLATION INSTRUCTIONS WITH ANCHORS - SLAB ON CLASS M EXPANSIVE SOIL	1	16.04.25
S-106	RESIDENTIAL TRAFFIC LOADING WITHOUT ANCHORS - SINGLE TANK	1	16.04.25	S-404	HN COMMERCIAL TRAFFIC LOADING - SINGLE TANK INSTALLATION INSTRUCTIONS WITHOUT ANCHORS - SLAB ON CLASS H2 EXPANSIVE SOIL	1	16.04.25
S-107	RESIDENTIAL TRAFFIC LOADING - SLAG ON CLASS H2 EXPANSIVE SOIL	1	16.04.25	S-405	HN COMMERCIAL TRAFFIC LOADING - SINGLE TANK INSTALLATION INSTRUCTIONS WITH ANCHORS - SLAB ON CLASS H2 EXPANSIVE SOIL	1	16.04.25
S-200	RESIDENTIAL TRAFFIC LOADING WITHOUT ANCHORS AD OUBLE TANK	1	16.04.25	S-500	HN COMMERCIAL TRAFFIC LOADING - DOUBLE TANK INSTALLATION INSTRUCTIONS WITHOUT ANCHORS - SLAB ON GOOD GROUND	1	16.04.25
S-201	RESIDENTIAL TRAFFIC LOADING - DOUBLE TANK INSTALLATION INSTRUCTIONS	1	16.04.25	S-501	HN COMMERCIAL TRAFFIC LOADING - DOUBLE TANK INSTALLATION INSTRUCTIONS WITH ANCHORS - SLAB ON GOOD GROUND	1	16.04.25
S-202	RESIDENTIAL TRAFFIC LOADING WITHOUT ANCHORS - DOUBLE TANK	1	16.04.25	S-502	HN COMMERCIAL TRAFFIC LOADING - DOUBLE TANK INSTALLATION INSTRUCTIONS WITHOUT ANCHORS - SLAB ON CLASS M EXPANSIVE SOIL	1	16.04.25
S-203	RESIDENTIAL TRAFFIC LOADING - DOUBLE TANK INSTALLATION INSTRUCTIONS	1	16.04.25	S-503	HN COMMERCIAL TRAFFIC LOADING - DOUBLE TANK INSTALLATION INSTRUCTIONS WITH ANCHORS - SLAB ON CLASS M EXPANSIVE SOIL	1	16.04.25
S-204	RESIDENTIAL TRAFFIC LOADING WITHOUT ANCHORS - DOUBLE TANK	1	16.04.25	S-504	HN COMMERCIAL TRAFFIC LOADING - DOUBLE TANK INSTALLATION INSTRUCTIONS WITHOUT ANCHORS - SLAB ON CLASS H2 EXPANSIVE SOIL	1	16.04.25
S-205	RESIDENTIAL TRAFFIC LOADING - DOUBLE TANK INSTRUCTIONS	1	16.04.25	S-505	HN COMMERCIAL TRAFFIC LOADING - DOUBLE TANK INSTALLATION INSTRUCTIONS WITH ANCHORS - SLAB ON CLASS H2 EXPANSIVE SOIL	1	16.04.25
				S-600	HN COMMERCIAL TRAFFIC LOADING - TRIPLE TANK INSTALLATION INSTRUCTIONS WITHOUT ANCHORS - SLAB ON GOOD GROUND	1	16.04.25
\frown		<u>I ZEALAND</u>		S-601	HN COMMERCIAL TRAFFIC LOADING - TRIPLE TANK INSTALLATION INSTRUCTIONS WITH ANCHORS - SLAB ON GOOD GROUND	1	16.04.25
C'				S-602	HN COMMERCIAL TRAFFIC LOADING - TRIPLE TANK INSTALLATION INSTRUCTIONS WITHOUT ANCHORS- SLAB ON CLASS M EXPANSIVE SOIL	1	16.04.25
\bigcirc	SEISMIC, TEMPORARY WORKS	DUSTRIAL,		S-603	HN COMMERCIAL TRAFFIC LOADING - TRIPLE TANK INSTALLATION INSTRUCTIONS WITH ANCHORS - SLAB ON CLASS M EXPANSIVE SOIL	1	16.04.25
Structu	LEVEL 1, 52 HIGHBROOK DRIVE	, EAST TAMA	AKI,	S-604	HN COMMERCIAL TRAFFIC LOADING - TRIPLE TANK INSTALLATION INSTRUCTIONS WITHOUT ANCHORS - SLAB ON CLASS H2 EXPANSIVE SOIL	1	16.04.25
	info@structural-engs.co.nz www phone: +64 9 275 60 29, Evening:	.structural-en +64 9 889 93	gs.co.nz 50	S-605	HN COMMERCIAL TRAFFIC LOADING - TRIPLE TANK INSTALLATION INSTRUCTIONS WITH ANCHORS - SLAB ON CLASS H2 EXPANSIVE SOIL	1	16.04.25

GENERAL NOTES

- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS, CIVIL ENGINEERING DRAWINGS, THE GEOTECHNICAL REPORT & OTHER RELEVANT CONSULTANTS DRAWINGS FOR THE PROPERTY COPIES OF ALL THE LISTED DOCUMENTS ARE TO BE KEPT ON SITE AT ALL TIMES
- 2. ALL WORKS ARE TO COMPLY WITH CURRENT VERSIONS OF THE NEW ZEALAND BUILDING ACT AND THE BUILDING
- DIMENSIONS ARE TO BE READ FROM DRAWINGS, NOT SCALED FROM THEM. ALL DIMENSIONS ARE TO BE CHECKED 3. ON-SITE PRIOR TO SETTING OUT. REFER TO ARCHITECTURAL DRAWINGS FOR SET OUT
- 4. ALL DIMENSIONS ARE IN MILLIMETRES (mm), ALL LEVELS ARE IN METRES (m), UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL TAKE PRECAUTIONS TO ESTABLISH LOCATION OF EXISTING SERVICES AT SITE. SERVICES SHOWN ON DRAWINGS ARE IN APPROXIMATE LOCATIONS ONLY. SERVICES OTHER THAN THOSE SHOWN MAY EXIST 5. ON SITE. ONLY HAND EXCAVATION ALLOWED WITHIN ONE METRE OF SERVICES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN. INSTALLATION AND MAINTENANCE OF ALL NECESSARY TEMPORARY WORKS INCLUDING TEMPORARY STRUCTURAL SUPPORTS TO ENSURE STRENGTH AND STABILITY OF THE STRUCTURE AND ADEQUATE SUPPORT TO THE STRUCTURES WITHOUT ANY ADVERSE EFFECT TO THE STRUCTURES OR ADJACENT STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION
- THE CONTRACTOR SHALL ENSURE THAT ALL REGULATORY CONSENT DOCUMENTATION AS REQUIRED BY THE COUNCIL OR OTHERS HAS BEEN ISSUED BEFORE COMMENCING CONSTRUCTION WORKS. STRUCTURAL ENGINEERS NZ (SENZ) TO BE PROVIDED THE BCO# PRIOR TO THE FIRST INSPECTION
- 8. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT CODES OF PRACTICE EXCEPT HERE VARIED BY THE DESIGN FEATURES REPORT AND/OR DRAWINGS
- THE LOCATION, SIZE AND DETAILS OF ALL PENETRATIONS, RECESSES, SLEEVES, HOLES, ETC IN STRUCTURAL MEMBERS SUCH AS RIBS (FOUNDATIONS), BEAMS, COLUMNS OR ANY REINFORCING MUST BE APPROVED BY THE 9 ENGINEER PRIOR TO CONSTRUCTION UNLESS SHOWN ON THE STRUCTURAL DRAWINGS WITH A SPECIFIC PENETRATION DETAIL. THESE ITEMS SHALL BE CAST-IN, FORMED, OR SHOP FABRICATED AND SHALL NOT BE CUT OR COVED ON SITE, UNLESS NOTED OTHERWISE OR APPROVED BY THE ENGINEER.
- 10. SUBSTITUTION FOR OR AMENDMENT OF SPECIFIED DETAILS OR MATERIALS SHALL NOT BE CARRIED OUT WITHOUT APPROVAL OF THE ENGINEER.
- 11. WHERE PROPRIETARY PRODUCTS ARE SPECIFIED IN THE DOCUMENTS THE CONTRACTOR MAY SUBMIT AN ALTERNATIVE PRODUCT FOR APPROVAL BY THE ENGINEER.
- 12. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL, SERVICES, AND ALL OTHER PROJECT DRAWINGS PRIOR TO CONSTRUCTION COMMENCING. ANY DISCREPANCIES WITH THE ARCHITECTURAL DRAWINGS RELATING TO THE CONSTRUCTION WORKS SHOWN ON THESE DRAWINGS MUST BE REFERRED TO THE ENGINEER & ARCHITECT FOR CLARIFICATION
- 13. SENZ MUST BE CONTACTED 48HOURS PRIOR TO AN INSPECTION. LATE NOTICE MAY RESULT IN DELAYS, SEE CONTACT DETAILS BELOW (HEADER
- 14. SENZ ARE TO INSPECT ALL STRUCTURAL ITEMS PART OF THIS DRAWING SET, PROPRIETARY BRACING SUCH AS GIB TO BE INSPECTED BY THE LOCAL COUNCIL.

SITE CLEARANCE AND DEMOLITION

- 1 ALL WORK SHOULD BE IN ACCORDANCE WITH THE HEALTH AND SAFETY IN EMPLOYMENT ACT 1992
- 2. PLEASE CONTACT WORKSAFE NZ WHEN IN DOUBT (0800 030 040)
- 3. DEMOLITION WORKS ARE NOT PART OF THE SCOPE OF SENZ.
- 4. DEMOLITION WORK IS THE RESPONSIBILITY OF THE CONTRACTOR
- 5. IT IS RECOMMENDED, WHERE DEMOLITION WORK IS REQUIRED, STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE SHALL NOT BE UNDERMINED TO ENSURE THE NECESSARY CONTINUED CONSTRUCTION IF POSSIBLE.
- 6. CARE MUST BE TAKEN BY THE CONTRACTOR TO ENSURE TEMPORARY PROPPING, SHORING AND BRACING IS IN PLACE TO REDUCE RISK AND DAMAGE WHERE REQUIRED

FOUNDATION NOTES

- THE EXCAVATION SHOULD BE AS INDICATED ON DRAWINGS OR TO A LEVEL WHERE THE SOIL ACHIEVES A GEOTECHNICAL ULTIMATE BEARING CAPACITY OF 300kPa.
- 2. COMPACTED HARDFILL WHERE REQUIRED SHALL BE IN ACCORDANCE WITH NZS 4402:1998 WITH REGARDS TO MOISTURE CONTENT
- COMPACTION WHERE REQUIRED SHALL BE CARRIED OUT IN CONTROLLED LAYERS OF NO MORE THAN 150mm COMPACTED DEPTH. AS PER THE GEOTECHNICAL ENGINEERS RECOMMENDATIONS
- 4. CONCRETE FOUNDATION MUST BE CURED FOR A MINIMUM OF 7 DAYS AS PER NZS3109.
- CONTRACTOR MUST USE A MINIMUM OF 30MPa CONCRETE U.N.O.
- 6. CONTROL JOINTS ARE RECOMMENDED @ 25m LENGTHS OF CONTINUOUS CONRETE U.N.O.
- PENETRATIONS ARE NOT PERMITTED THROUGH CONCRETE RIBS (FOUNDATIONS), THICKENINGS OR REINFORCING UNLESS SPECIFICALLY DETAILED IN THE ENGINEERING DRAWINGS.

FOUNDATION NOTES CONTINUED

EXPANSIVE SOILS NOTE (AS PER AS2870:2011):

11. COMPACTION BY A VIBRATOR IS REQUIRED FOR CLASSES M. H1, H2 (OR H - HIGHLY TO NZBC) AND E SITES.

12. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SERVICE EXCAVATIONS, THIS CAN REMOVE SUPPORT FROM FOOTINGS. THIS LACK OF SUPPORT CAN RESULT IN SETTLEMENT OR ROTATION OF THE FOOTING.

13 EXCAVATION LOCATION AND DEPTH SHOULD BE SLICH THAT THE EXCAVATION IS NOT DEEPER THAN THE CRITICAL DEPTH LINE (ANGLED 30DEGREES FOR SAND AND 45DEGREES FOR CLAY) FROM THE BASE OF THE FOOTING TO HORIZONTAL. THE CRITICAL DEPTH LINE MAY BE LOWERED, IF REQUIRED, BY LOWERING THE FOUNDING LEVEL OF THE FOOTING

14 WHEN TRENCHES ARE TO BE EXCAVATED BELOW THE CRITICAL DEPTH LINE. THE CRITICAL BACKELL AREA SHOULD BE BACKFILLED WITH MATERIAL OF ADEQUATE STRENGTH AND LOW PERMEABILITY TO MINIMIZE WATER MIGRATION AND SETTLEMENT. CONCRETE, MORTAR OR (PREFERABLY) CEMENT-STABILIZED SOIL MAY BE USED.

16. FOUNDATION FOR SLABS, THE FOUNDATION SHALL SATISFY THE FOLLOWING:

- (A) TOP SOIL CONTAINING GRASS ROOTS OR OTHER ORGANIC MATERIAL SHALL BE REMOVED FROM THE AREA ON WHICH THE SLAB IS TO REST
- (B) ON SITES SUBJECT TO WIND OR WATER EROSION, THE FOUNDATION OF THE EDGE BEAM OR FOOTING SHALL BE
- (C) THE FOLLOWING APPLY TO THE FOUNDATION FOR SLABS, INCLUDING EDGE AND INTERNAL BEAMS: (I) WHERE SLAB PANELS, EDGE BEAMS, INTERNAL BEAMS AND LOAD-SUPPORT THICKENINGS ARE TO BE SUPPORTED
- ON NATURAL SOIL THE BEARING CAPACITY OF THE SOIL SHALL BE NOT LESS ITEM 1 UNDER "FOUNDATION NOTES" NOTE: SLAB PANELS, INTERNAL BEAMS AND LOAD SUPPORT THICKENINGS MAY BE FOUNDED ON CONTROLLED OR ROLLED FILL
- (I) EDGE BEAMS MAY BE FOUNDED ON CONTROLLED FILL. THIS FILL SHALL CONTINUE PAST THE EDGE OF THE BUILDING BY AT LEAST 1 M AND SHALL BE RETAINED OR BATTERED BEYOND THIS POINT BY A SLOPE NOT STEEPER
- THAN 1:2. EDGE BEAMS SHALL NOT BE FOUNDED ON ROLLED FILL. (III) EDGE FOOTINGS NOT TIED TO A FOOTING SLAB SHALL BE FOUNDED IN NATURAL SOIL WITH A BEARING CAPACITY OF AS PER ITEM 1 UNDER "FOUNDATION NOTES" OR MAY BE FOUNDED ON CONTROLLED SAND FILL ON A CLASS A OR CLASS S SITE
- (D) THE BASES OF EDGE BEAMS AND FOOTINGS MAY BE STEPPED OR SLOPED NOT MORE THAN 1:10.
- (E) WHERE SITES WITH AGGRESSIVE SOILS, A BLINDING LAYER OF SAND IS REQUIRED. WHERE USED. THE BLINDING LAYER OF SAND SHALL COMPLY WITH AS2870:2017 CLAUSE 6.4.2 IF DEEPER THAN 100 MM



ABBREVIATIONS

BGL = BELOW GROUND LEVEL C/C = CENTRE TO CENTRE E.W = EACH WAY F.F = FAR FACE F.F.L. = FINISHED FLOOR LEVEL F.G.L = FINISHED GROUND LEVEL F.W. = FILLET WELD F.W.A.R. = FILLET WELD ALL ROUND G.W.L. = GROUND WATER LEVEL HORIZ. = HORIZONTAL L.A.R. = LAP AT RANDOM N F = NEAR FACE STRP = STIRRUP T & B = TOP AND BOTTOM J.N.O = UNLESS NOTED OTHERWISE T.O.C. = TOP OF CONCRETE T.O.S. = TOP OF STEEL VERT. = VERTICAL CHS = CIRCULAR HOLLOW SECTION EA = EQUAL ANGLE PFC = PARALLEL FLANGE CHANNEL RHS = RECTANGULAR HOLLOW SECTION SHS = SQUARE HOLLOW SECTION TFB = TAPER FLANGE BEAM UA = UNEQUAL ANGLE UB = UNIVERSAL BEAM UC = UNIVERSAL COLUMN C.O.S = CONFIRM ON SITE UBC = ULTIMATE BEARING CAPACITY U/S = UNDERSIDE

CONCRETE NOTES

- EFERENCED DOCUMENTATION
- SPECIFICALLY DETAILED IN THE ENGINEERING DRAWINGS
- - 6.
 - 7. RESPONSIBILITY

 - 9. BAR CLASSES A) R: ROUND PLAIN, Fy = 300MPa B) HR: ROUND PLAIN, Fy = 500MPa \dot{C} D DEFORMED EV = 300MPa D) HD: DEFORMED. Fv = 500MP
 - 10. REINFORCEMENT COVER (25MPa CONCRETE): A) 75mm BOTTOM COVER B) 50mm TOP & SIDE COVER

 - 12. SURFACE FINISHES U1 IN ACCORDANCE WITH NZS 3114

REINFORCEMENT

- 3. PLACING AND SPACING OF REINFORCEMENT а
- REINFORCEMENT
- COULD BE MICRO ALLOY GRADE 300E U.N.O.

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lew Zealand	DEVAN	GENERAL NOTES 1

			DESIGNED:	SK	Contact SENZ wh Architectural Drawi scale Structural E	nen in doubt. Refer to ings for set out, do not ingineering Drawings
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1	FOR CONSTRUCTION	16.04.25			Evening Number:	+64 9 889 9350
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REV	ISSUE	Date			Website:	www.structural-engs.co.nz







CONCRETE CONSTRUCTION TO BE IN ACCORDANCE WITH NZS3109:1997 (CONCRETE CONSTRUCTION) AND

MINIMUM CONCRETE TO BE 30MPa . 100mm SLUMP MIX WITH 19mmNOMINAL AGGREGATE SIZE. CONCRETE STRENGTHS ARE SPECIFIED 28 DAY COMPRESSIVE STRENGTHS AS DEFINED IN NZS 3109:1997.

PENETRATIONS ARE NOT PERMITTED THROUGH CONCRETE RIBS (FOUNDATIONS), BEAMS OR COLUMNS UNLESS

RECOMMENDED STRUCTURAL CEMENT HIGH GRADE CEMENT TO NZS 3104:2003.

5. STRUCTURAL CONCRETE DEPTH DO NOT INCLUDE THE DEPTH OF FINISHES

CONSTRUCTION JOINTS NOT SHOWN ON DRAWINGS SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.

TEMPORARY PROPPING AND FORMWORK CONSTRUCTION FOR CONCRETE WORKS SHALL BE THE CONTRACTOR'S

HD OR HIGH DUCTILE DEFORMED BARS MUST NOT BE BENT TWICE. IF BARS ARE REQUIRED TO BE BENT MORE THAN ONCE, HEATING IS REQUIRED FOR REBENDING. D OR DEFORMED BARS CAN BE BENT TWICE BUT CONTRACTOR MUST SEEK APPROVAL FROM THE STRUCTURAL ENGINEER FOR THE REPLACEMENT OF HD BARS

11. COVER TO BE MAINTAINED USING CHAIRS AT APPROXIMATELY 1500-2000mm CENTERS, ENSURING VARIATIONS TO SURFACES DO NOT DECREASE COVER. WHERE LEVELS ARE NOT FLAT SUCH AS FOUNDATIONS, COVER MUST BE MAINTAINED BY USING CHAIRS AT CLOSER CENTERS

STAGGER LAPS WHERE POSSIBLE. WHERE LAPS ARE NOT STAGGERED INCREASE LAP LENGTH BY 30%. WHERE GAPS BETWEEN LAP BARS EXIST. THE LAP LENGTH SHALL BE EXTENDED BY 1.5xGAP.

2. MINIMUM LAP FOR FABRIC SHALL BE ONE MESH BAR SPACING PLUS 50mm.

SPLICING OF REINFORCEMENT, WHETHER BY LAPPING, WELDING OR MECHANICAL SPLICE SHALL ONLY BE CARRIED OUT AS SHOWN ON THE DRAWINGS OR AS SPECIFICALLY APPROVED BY THE ENGINEER. -WELDED WIRE MESH SHALL BE SPLICED AS REQUIRED. BUT NOT THROUGH SLAB JOINTS

ALL HOOKS ON STIRRUP AND TIES MUST FIT CLOSELY AROUND MAIN BARS U.N.O.FIRST STIRRUP TO BE PLACED NOT FURTHER THAN THE LESSER OF 1/2 STIRRUP SPACING OR 50mm FROM SUPPORT FACE. LAP SPLICES IN

LAP LENGTHS FOR DEFORMED BARS SHALL BE AS SHOWN IN THE FOLLOWING TABLES U.N.O. -TOP BAR FACTOR IS 1.0 FOR ALL VERTICAL BARS (COLUMNS, WALLS) AND FOR HORIZONTAL BARS WITH LESS THAN 300mm OF FRESH CONCRETE CAST BENEATH BAR (TYPICALLY BEAM BOTTOM BARS, AND SLAB BARS) P BAR FACTOR IS 1.3 FOR ALL HORIZONTAL BARS WITH MORE THAN 300mm OF FRESH CONCRETE CAST BENEATH THE BAR (TYPICALLY BEAM TOP BARS AND HORIZONTAL WALL BARS).

BARS ARE TO BE TO AS/NZS 4671 - GRADE 500E DEFORMED, OTHER THAN FOR TIES, STIRRUPS AND SPIRALS, THAT

25 MPa	GRADE 300 DEFORMED	GRADE 500 DEFORMED
12mm BAR	500	700
16mm BAR	600	900
20mm BAR	700	1100
25mm BAR	900	1400
32mm BAR	1100	1700

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E DEVAN stormVAULT (LOWEST POINT OF TANK NO CLOSER THAN 500 MIN TO LINE OF O ANTU TANK ORIENTATION) APPLIES TO ANTU TANK ORIENTATION)	NOTES: - ALL DIMENSIONS I - REFER TO STRUCT OR CONCRETE REII - ALL LEVELS SHALL CONTRACTOR PRIC WORK. - ALL UNDERGROUT LOCATED AND MAR WORKS, - DEVAN PLASTICS IMMEDIATELY SHOU PARAMETERS SHOU ACHIEVABLE. - REFER TO DEVAN BURIAL DEPTH ALLO - TEMPORARY SUPP OUT IN ACCORDAN SAFETY GUIDELINE - stormVAULT INSTA CONJUCTION WITH GUIDE AND THESE SOIL CONDITIONS: SITE SOIL CONDITIONS: SITE SOIL CONDITION FOR INSTALLATION - P STRUCTURES: IT IS THE CONTRACT TO ENSURE THAT SOLONDINCLUDING PROVIDED AN ULTII KPA IS ACHIEVABLE SOIL, OR SOIL WITH RESPONSIBILITY OF OWNER TO VERIFY COMMENCING THE TANK LOCATION - P STRUCTURES: IT IS THE CONTRACT TO ENSURE THAT T RESPECT TO ADJACTHE LIMITS AND RED DRAWINGS. DEVAN IMMEDIATELY IF TH BACKFILL AND BASS GAP 10 oF GAP 20 S BASECOURSE MATT SHALL NOT BE USE APPROVAL OF DEV. CONTRACTOR SHAL CONTRACTOR SHAL AND CONSTRUCTIO VOIDS ARE FILLED TANK, ENSURING S BATTERING/BENCH MANAGING THE ST/ EXCAVATION IS THE RELEVANT GUIDELI ACCORDANCE WITT WORK ACT 2015. TT ANY EXCAVATIONS CONTRACTOR SHAL AND CONSTRUCTIO VORS ACT 2015. TT ANY EXCAVATIONS CONTRACTOR SHAL AND CONSTRUCTOR RELEVANT GUIDELI ACCORDANCE WITT WORK ACT 2015. TT ANY EXCAVATIONS CONTRACTOR SHAL AND SHORING. NOTE: THIS SHEET IS FOR ABOVE MAXIMUM P FOR INSTALLATION DETERMINED THERCONSIBILITY OF THE EXCAVATIONS CONTRACTOR SHAL AND SHORING.	N MILLIMETRES UNO TURAL SPECIFICATIONS S NFORCING & OTHER NOTT L BE CONFIRMED BY THE DR TO COMMENCEMENT C ND SERVICES SHALL BE C LTD SHALL BE NOTIFIED JLD ANY OF THE DESIGN WN ON THE DRAWINGS M PLASTICS LTD FOR MAXIN OWANCES. PORT AND SHORING TO BI CE WITH WORKSAFE EXC S. LLATION TO BE CARRIED DEVAN PRODUCT INFORM DRAWINGS ONS ALLOW FOR EXPANSIS CLASS H2 AS DEFINED IN MATE BEARING CAPACITY E. NO ALLOWANCE FOR LI SLOPE STABILITY ISSUE THE CONTRACTOR AND THE SITE CONDITIONS PF CONSTRUCTION WORKS. ROXIMITY TO NEARBY TOR AND OWNER'S RESP HE LOCATION OF THE TAT SENT STRUCTURES COMP STRUCTURS SET OUT IN T PLASTICS LTD SHALL BE OSE LIMITS ARE NOT ACH ECOURSE: HALL BE USED FOR BACK/ ERIAL. ALTERNATIVE MATI LU BACKFILL LIFTS OF 150 LL USE THE APPROPRIATE N TECHNIQUES TO ENSUL LUSE THE APPROPRIATE N TECHNIQUES TO ENSUL MALL BE USED FOR BACKLENCE THE INSTALLATION OF THE N TECHNIQUES TO ENSUL N TECHNIQUES, BUT NOT LI DEEPER THAN 1.5M. THE LL CONSULT WITH SUITAE IONALS SHOULD FURTHED N TECHNIQUES, BUT NOT LI DESENDE WATER TABLE LI S NOT REQUIRING ANCHO UGH TO CALCULATORY. IF : SBULY RISE ABOVE THE I N IF THIS INFORMATION I ER TO SHEET 059-003-S-00 TY OF THE CONTRACTORY. IF SUBLY RISE ABOVE THE I N IF THIS INFORMATION I ER TO SHEET 059-003-S-01 TO CHE CONTRACTORY. IF N THE DECAN INSTALLATION	HEET SS PF ONFIRMED, VATION DT BE MUM E CARRIED AVATION OUT IN AVATION OUT IN MATION VE SOIL UP AS2870, OF 300 QUIFIABLE SIT IS THE ROATION VE SOIL UP AS2870, OF 300 QUIFIABLE SIT IS THE ROATION ONSIBILITY VE SOIL UP AS2870, OF 300 QUIFIABLE SIT IS THE WITH THESE NOTIFIED IEVABLE. FILL AND ENTIFIED IN SIT IS AND ON THE SIN TARKS ARE E VATER SOR HE WATER SON HE WATER SON HE WATER SON HE WATER SON OTD 2. IT IS AND ON GUIDES
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	SCALE 1:50 @ A3	Drawing No.	REVISION
RS	1:A3x2 @ A1	059-003 -S-001	1





Date

DEVAN stormVAULT (LOWEST POINT OF TANK NO CLOSER THAN 500 MIN TO LINE OF INFLUENCE – APPLIES TO ANY TANK ORIENTATION)	NOTES: - ALL DIMENSIONS I - REFER TO STRUC OR CONCRETE REIL - ALL LEVELS SHALL CONTRACTOR PRIC WORK. - ALL UNDERGROUT LOCATED AND MAR WORKS, - DEVAN PLASTICS I IMMEDIATELY SHOU ACHIEVABLE. - REFER TO DEVAN BURIAL DEPTH ALLO - TEMPORARY SUPF OUT IN ACCORDANS SAFETY GUIDELINE - stormVAULT INSTA CONJUCTION WITH GUIDE AND THESE I SOIL CONDITIONS: SITE SOIL CONDITIONS: SITE SOIL CONDITIONS SITE SOIL CONDITIONS: SITE SOIL CONDITIONS IN STALL CONTRACT TO AND INCLUDING PROVIDED AN ULTII KPA IS ACHIEVABLE SOIL, OR SOIL WITH RESPONSIBILITY OF COMMENCING THE TANK LOCATION - P STRUCTURES: IT IS THE CONTRACT TO ENSURE THAT T RESPECT TO ADJAC THE LIMITS AND RE DRAWINGS. DEVAN IMMEDIATELY IF TH BACKFILL AND BASI GAP 10 or GAP 20 SI BASECOURSE MATT SHALL NOT BE USE APPROVAL OF DEV/ CONTRACTOR SHAI CONTRACTOR SHAI INDUSTRY PROFES GUIDANCE BE REQU AND SHORING. NOTE: THIS SHEET IS FOR ABOVE MAXIMUM P FOR INSTALLATION DETERMINED THRCON CY VERSION 1.0 (OR HI BEING INSTALLED A TABLE LEVELS THE WATER TABLE INFOR ABOVE MAXIMUM P FOR INSTALLATION DETERMINED THRCON CY VERSION 1.0 (OR HI BEING INSTALLED A TABLE LEVELS THE WATER TABLE INFOR ABOVE MAXIMUM P FOR INSTALLATION DETERMINED THRCON POIDED, REFI THE RESPONSIBILIT OWNER TO ENSURE	N MILLIMETRES UNO TURAL SPECIFICATIONS S NFORCING & OTHER NOTT BE CONFIRMED BY THE IR TO COMMENCEMENT C ND SERVICES SHALL BE C KED PRIOR TO ANY EXCA LTD SHALL BE NOTIFIED JLD ANY OF THE DESIGN WN ON THE DRAWINGS NO PLASTICS LTD FOR MAXIN DWANCES. PORT AND SHORING TO BI CE WITH WORKSAFE EXC S. LLATION TO BE CARRIED DEVAN PRODUCT INFORM DRAWINGS DEVAN PRODUCT INFORM DRAWINGS DNS ALLOW FOR EXPANSI CLASS H2 AS DEFINED IN WATE BEARING CAPACITY IN OALLOW ANCE FOR LIN SLOPE STABILITY ISSUE? THE CONTRACTOR AND DEVAN PRODUCT INFORM DRAWINGS DRAWINGS DIS ALLOW FOR EXPANSI CLASS H2 AS DEFINED IN WATE BEARING CAPACITY IN OALLOWANCE FOR LIN SLOPE STABILITY ISSUE? THA CONTRACTOR AND THE SITE CONDITIONS PF CONSTRUCTION WORKS. ROXIMITY TO NEARBY TOR AND OWNER'S RESP HE LOCATION OF THE TAT SENT STRUCTURES COMP HE LOCATION SET OUT IN T PLASTICS LTD SHALL BE OSE LIMITS ARE NOT ACH ECOURSE: HALL BE USED FOR BACKL SIRAL. ALTERNATIVE MATI D WITHOUT THE WRITTEN AN PLASTICS LTD SHALL BE OSE LIMITS ARE NOT ACH ECOURSE: HALL BE USED FOR BACKL SIRAL ALTERNATIVE MATI D WITHOUT THE WRITTEN AN PLASTICS LTD SHALL BE OSE LIMITS ARE NOT ACH ECOURSE: HALL BE CARRIED OT IN T D LASTICS LTD SHALL BE OSE LIMITS ARE NOT ACH IN TECHNIQUES TO ENSUI ALONG THE FULL LENGTH IN TECHNIQUES TO ENSUI ALONG THE FULL LENGTH IN TECHNIQUES TO ENSUI ALONG THE FULL LENGTH IN THE NUMPORT. IN THOUR THE WRITTEN AN TON MUST PROVE IN THE HEALTH AND SAFET ISINCLUDES, BUT NOT LI SIBLY RISE ABOVE THE I N THE INSTALLATION OF TA OSSIBLE WATER TABLE LI SIDUE WAN PLASTICS SI LINDRICAL TANKS TOLDE IN THE SINFORMATION OF TA SIBLY RISE ABOVE THE I N STAT SAULD FOR BENCHING, BA THE INSTALLATION OF TA SIBLY RISE ABOVE THE I N IF THS INFORMATION INST ALLATION IN THE SINFORMATION TO T SIBLY RISE ABOVE THE I N IF THE SINFORMATION TO IN THE SIDE OF THE TABLE I SIBLY RIS	HEET S AUM COT BE AUM E CARRIED AVATION OUT IN AVATION OUT IN AV
APPLIES TO ANY TANK ORIENTATION)			
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IDARD DESIGN FOR	FOR C	ONSTRUCTION Drawing No.	REVISION
	1 : 50 @ A3	059-003 -8-006	1
	1:A3x2 @ A1		•



DEVAN stormVAULT BASE OF TANK EXCAVATION -TO BE BEYOND THE LINE OF INFLUENCE SHOWN (LOWEST POINT OF TANK NO CLOSER THAN SOO MIN TO LINE OF INFLUENCE – APPLIES TO ANY TANK ORIENTATION) BUILDING STRUCTURE	 ALL DIMENSIONS IN MILLIMETRES UNO ALL DIMENSIONS IN MILLIMETRES UNO REFER TO STRUCTURAL SPECIFICATIONS SHEET OR CONCRETE REINFORCING & OTHER NOTES ALL LEVELS SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. ALL UNDERGROUND SERVICES SHALL BE CONFIRMED, LOCATED AND MARKED PRIOR TO ANY EXCAVATION WORKS, DEVAN PLASTICS LTD SHALL BE NOTIFIED IMMEDIATELY SHOULD ANY OF THE DESIGN PARAMETERS SHOWN ON THE DRAWINGS NOT BE ACHIEVABLE. REFER TO DEVAN PLASTICS LTD FOR MAXIMUM BURIAL DEPTH ALLOWANCES. TEMPORARY SUPPORT AND SHORING TO BE CARRIED OUT IN ACCORDANCE WITH WORKSAFE EXCAVATION SAFETY GUIDELINES. stornVAULT INSTALLATION TO BE CARRIED OUT IN CONJUCTION WITH DEVAN PRODUCT INFORMATION GUIDE AND THESE DRAWINGS SOIL CONDITIONS SITE SOIL CONDITIONS ARE CONSISTENT WITH "GOOD GROUND" AS DEFINED IN NZS3604:2011. i.e. NO ALLOWANCE FOR EXPANSIVE OR LIQUIFIABLE SOIL, OR SOIL WITH SLOPE STABILITY ISSUES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE OWNER TO VERIFY THE SITE CONDITIONS PRIOR TO COMMENCING THE CONTRACTOR AND THE OWNER TO VERIFY THE SITE CONDITIONS PRIOR TO COMMENCING THAT THE LOCATION OF THE TANK WITH HESPECT TO ADJACENT STRUCTURES COMPLY WITH THE RESPONSIBILITY OF THE CONTRACTOR AND THE SOL ON FIFED IMMEDIATELY IF THOSE LIMITS ARE NOT ACHIEVABLE. BACKFILL AND BASECOURSE: GAP 10 OF GAP 20 SHALL BE USED FOR BACKFILL AND BASECOURSE MATERIAL. ALTERNATIVE MATERIAL SHALL BACKFILL LIFTS OF 150MM. THE CONTR				
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- SINGLE TANK VITHOUT ANCHORS - SLAB	As indicated @ A3	059-003 - 6 102	1		
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= DEVAN stormVAULT BASE OF TANK EXCAVATION TO BE BEYOND THE LINE OF NFLUENCE SHOWN LOWEST POINT OF TANK NO CLOSER THAN 500 MIN TO LINE DF INFLUENCE – APPLIES TO ANY TANK	NOTES: - ALL DIMENSIONS I - REFER TO STRUC: OR CONCRETE REII - ALL LEVELS SHALL CONTRACTOR PRIC WORK. - ALL UNDERGROUT LOCATED AND MAR WORKS, - DEVAN PLASTICS: IMMEDIATELY SHOU PARAMETERS SHOU ACHIEVABLE. - REFER TO DEVAN BURIAL DEPTH ALLO - TEMPORARY SUPF OUT IN ACCORDAN: SAFETY GUIDELINE - stormVAULT INSTA CONJUCTION WITH GUIDE AND THESE	N MILLIMETRES UNO TURAL SPECIFICATIONS VFORCING & OTHER NOT BE CONFIRMED BY THE R TO COMMENCEMENT ND SERVICES SHALL BE I KED PRIOR TO ANY EXC. LTD SHALL BE NOTIFIED JUD ANY OF THE DESIGN WN ON THE DRAWINGS I PLASTICS LTD FOR MAX DWANCES. PORT AND SHORING TO I CE WITH WORKSAFE EXIS. S. LLATION TO BE CARRIEL DEVAN PRODUCT INFOF DRAWINGS	SHEET TES OF CONFIRMED, AVATION NOT BE IMUM BE CARRIED CAVATION
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- SINGLE TANK ITHOUT ANCHORS - SLAB	SCALE As indicated @ A3	Drawing No. 059-003 -S-104	REVISION
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	BATTERING/BENCH MANAGING THE ST/ EXCAVATION IS THI CONTRACTOR, AND RELEVANT GUIDELI ACCORDANCE WITI WORK ACT 2015. TI ANY EXCAVATIONS CONTRACTOR SHA INDUSTRY PROFES GUIDANCE BE REQU AND SHORING.	ING/SHORING: ABILITY OF THE TRENCH I E RESPONSIBILITY OF THI SHALL BE CARRIED OUT NES AND BEST PRACTICE 4 THE HEALTH AND SAFE IS INCLUDES, BUT NOT L DEEPER THAN 1.5M. THE LL CONSULT WITH SUITAE IONALS SHOULD FURTHE JIRED FOR BENCHING, B/	DURING E WITH THE IS IN TY AT IMITED TO, BLE R ATTERING,
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	NOTE: THIS SHEET IS FOR REQUIRING ANCHO "DEVAN PLASTICS & CYLINDRICAL TANK HIGHER) CALCULAT THE CONTRACTOR TANK INSTALLATION INSTALLATION GUIE	THE INSTALLATION OF T, R PADS AS DETERMINED tormVAULT UNDERGROUI S TOOLBOX VERSION 1.0 'OR". IT IS THE RESPONSI AND OWNER TO ENSURE N IN ACCORDANCE WITH DES AND DRAWINGS.	ANKS THROUGH ND (OR BILITY OF CORRECT THE DEVAN
DARD DESIGN FOR	FOR C	ONSTRUCTION	
- SINGLE TANK ITH ANCHORS - SLAB ON	SCALE As indicated @ A3		REVISION
	1:A3x2 @ A1	003-003 -9-105	



NVAULT NK EXCAVATION ND THE LINE OF SHOWN DINT OF OSER IN TO LINE ICE – ANY TANK IN ING STRUCTURE	NOTES: - ALL DIMENSIONS I - REFER TO STRUCT OR CONCRETE REIN - ALL LEVELS SHALL CONTRACTOR PRIC WORK. - ALL UNDERGROUN LOCATED AND MAR WORKS, - DEVAN PLASTICS I IMMEDIATELY SHOU PARAMETERS SHOV ACHIEVABLE. - REFER TO DEVAN BURIAL DEPTH ALLC - TEMPORARY SUPP OUT IN ACCORDANC SAFETY GUIDELINE - StormVAULT INSTA CONJUCTION WITH GUIDE AND THESE I SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOL CONDITIONS SLOPE STABILITY IS THE CONTRACTOR SITE CONDITIONS P	N MILLIMETRES UNO TURAL SPECIFICATIONS S VFORCING & OTHER NOTE DE CONFIRMED BY THE R TO COMMENCEMENT C ND SERVICES SHALL BE C KED PRIOR TO ANY EXCA LTD SHALL BE NOTIFIED JLD ANY OF THE DESIGN WN ON THE DRAWINGS NU PLASTICS LTD FOR MAXIN DWANCES. PORT AND SHORING TO B CE WITH WORKSAFE EXC S. LLATION TO BE CARRIED DEVAN PRODUCT INFORM DRAWINGS DNS ALLOW FOR EXPANSI CLASS H2 AS DEFINED IN WATE BEARING CAPACITY FOR THE SUBGRADE DIF SLAB AND THE BASECOUR IQUIFIABLE SOIL, OR SOI ISUES. IT IS THE RESPON. AND THE OWNER TO VER	HEET S ONFIRMED, VATION DT BE MUM E CARRIED AVATION OUT IN MATION VE SOIL UP IAS2870, OF 300 VECTLY SE. NO LWITH SIBILITY OF IFY THE HE
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VAN stormVAULT SE OF TANK EXCAVATION BE BEYOND THE LINE OF LUENCE SHOWN DWEST POINT OF NK NO CLOSER AN 500 MIN TO LINE INFLUENCE – PLIES TO ANY TANK RIENTATION)	NOTES: - ALL DIMENSIONS I - REFER TO STRUCI OR CONCRETE REII - ALL LEVELS SHALL CONTRACTOR PRIC WORK. - ALL UNDERGROUT LOCATED AND MAR WORKS, - DEVAN PLASTICS I IMMEDIATELY SHOT PARAMETERS SHOT ACHIEVABLE. - REFER TO DEVAN BURIAL DEPTH ALLO - TEMPORARY SUPF OUT IN ACCORDANY SAFETY GUIDELINE - StormVAULT INSTA CONJUCTION WITH GUIDE AND THESE SOIL CONDITIONS SITE SOIL CONDITIONS	N MILLIMETRES UNO TURAL SPECIFICATIONS S VFORCING & OTHER NOTI DE CONFIRMED BY THE R TO COMMENCEMENT C ND SERVICES SHALL BE C KED PRIOR TO ANY EXCA LTD SHALL BE NOTIFIED JLD ANY OF THE DESIGN WN ON THE DRAWINGS N PLASTICS LTD FOR MAXII DWANCES. PORT AND SHORING TO B CE WITH WORKSAFE EXC S. LLATION TO BE CARRIED DEVAN PRODUCT INFORM DRAWINGS DNS ALLOW FOR EXPANSI	HEET SS ONFIRMED, VATION OT BE MUM E CARRIED AVATION OUT IN MATION
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IDARD DESIGN FOR	FOR C	ONSTRUCTION	
- SINGLE TANK	SCALE	Drawing No.	REVISION
ITH ANCHORS - SLAB ON	1:A3x2 @ A1	059-003 -S-107	1



-DEVAN stormVAULT BASE OF TANK EXCAVATION TO BE BEYOND THE LINE OF INFLUENCE SHOWN (LOWEST POINT OF TANK NO CLOSER THAN 500 MIN TO LINE	NOTES: - ALL DIMENSIONS I - REFER TO STRUCT OR CONCRETE REII - ALL LEVELS SHALL CONTRACTOR PRIC WORK. - ALL UNDERGROUT LOCATED AND MAR WORKS, - DEVAN PLASTICS I IMMEDIATELY SHOU PARAMETERS SHOU ACHIEVABLE. - REFER TO DEVAN BURIAL DEPTH ALLO - TEMPORARY SUPF OUT IN ACCORDANS SAFETY GUIDELINE - StormVAULT INSTA CONJUCTION WITH	N MILLIMETRES UNO TURAL SPECIFICATIONS S VFORCING & OTHER NOTI DE CONFIRMED BY THE DR TO COMMENCEMENT C ND SERVICES SHALL BE C KED PRIOR TO ANY EXCA LTD SHALL BE NOTIFIED JLD ANY OF THE DESIGN WN ON THE DRAWINGS N PLASTICS LTD FOR MAXII DWANCES. PORT AND SHORING TO B CE WITH WORKSAFE EXC S. LLATION TO BE CARRIED DEVAN PRODUCT INFORM	ONFIRMED, VATION OT BE WUM E CARRIED AVATION		
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	BATTERING/BENCHING/SHORING: MANAGING THE STABILITY OF THE TRENCH DURING EXCAVATION IS THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE CARRIED OUT WITH THE RELEVANT GUIDELINES AND BEST PRACTICES IN ACCORDANCE WITH THE HEALTH AND SAFETY AT WORK ACT 2015. THIS INCLUDES, BUT NOT LIMITED TO, ANY EXCAVATIONS DEEPER THAN 1.5M. THE CONTRACTOR SHALL CONSULT WITH SUITABLE INDUSTRY PROFESIONALS SHOULD FURTHER GUIDANCE BE REQUIRED FOR BENCHING, BATTERING, AND SHORING				
	LOADING: VEHICLES UP TO 10 3.1(g) NZS 1170.1,5 CONTRACTOR AND POSITION DOES NO GREATER THAN SP THE DESIGN LIFE O	,000kg "MEDIUM" TRAFFIC KPA / 31kN. TANK OWNER TO ENSUR T EXPOSE THE TANK TO I ECIFIED IN THESE DRAWII F THE UNIT.	CTABLE E TANK LOADS NGS FOR		
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ASE OF TANK EXCAVATION DBE BEYOND THE LINE OF IFLUENCE SHOWN OWEST POINT OF ANK NO CLOSER HAN 300 MIN TO LINE FINFLUENCE – PPLIES TO ANY TANK RIENTATION)	NOTES: - ALL DIMENSIONS I - REFER TO STRUC' OR CONCRETE REII - ALL LEVELS SHALL CONTRACTOR PRIC WORK. - ALL LEVELS SHALL CONTRACTOR PRIC WORK, - ALL UNDERGROUT LOCATED AND MAR WORKS, - DEVAN PLASTICS I IMMEDIATELY SHOU PARAMETERS SHOU ACHIEVABLE. - REFER TO DEVAN BURIAL DEPTH ALLO - TEMPORARY SUPP OUT IN ACCORDAN SAFETY GUIDELINE - stormVAULT INSTA CONJUCTION WITH GROUND' AS DEFIN ALLOWANCE FOR E SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS IT IS THE CONTRAC TO ENSURE THAT T ESPECT TO ADJAC THE LIMITS AND RE DRAWINGS. DEVAN IMMEDIATELY IF TH BACKFILL AND BASS GAP 10 or GAP 20 SI BASECOURSE MATT SHALL NOT BE USE APPROVAL OF DEV/ CONTRACTOR SHAL CONTRACTOR SHAI CONTRACTOR SHAI INDUSTRY PROFES GUIDANCE BE REQU AND SHORING.	N MILLIMETRES UNO TURAL SPECIFICATIONS S VFORCING & OTHER NOT L BE CONFIRMED BY THE R TO COMMENCEMENT (ND SERVICES SHALL BE C KED PRIOR TO ANY EXCA LTD SHALL BE NOTIFIED JLD ANY OF THE DESIGN WN ON THE DRAWINGS N PLASTICS LTD FOR MAXI DWANCES. PORT AND SHORING TO B CE WITH WORKSAFE EXC S. LLATION TO BE CARRIED DEVAN PRODUCT INFOR DRAWINGS DNS ARE CONSISTENT WI IED IN NZS3604:2011. I.E. I XPANSIVE OR LQUIFIAB THE CONTRACTOR AND THE SITE CONDITIONS PI CONSTRUCTION WORKS ROXIMITY TO NEARBY TOR AND OWNER'S RESP HE LOCATION OF THE TA STRUCTURES COMI STRUCTIONS SET OUT IN ' PLASTICS LTD SHALL BE CONSTRUCTION SOFT OT IN STRUCTURES COMI STRUCTURES STRUCTURES STRUCTURES COMI STRUCTURES COMI STRUCTURES STRUCTURES STRUCTURES STRUCTURES STRUCT	SHEET ES CONFIRMED, VATION OT BE MUM E CARRIED AVATION OUT IN E CARRIED AVATION OUT IN MATION OUT IN MATION OUT IN MATION OUT IN MATION THE GOOD NO E SOIL, OR ET REAL OUT IN MATION THE THESE NOTIFIED HEVABLE. FILL AND ERIAL V MM. THE E TOOLS RE ALL HOF THE SIN TY AT INITED TO, BLE R ATTERING, C TABLE E TANK LOADS NGS FOR ANKS THROUGH ND (OR BILITY OF
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DEVAN stormVAULT BASE OF TANK EXCAVATION TO BE BEYOND THE LINE OF INFLUENCE SHOWN (LOWEST POINT OF TANK NO CLOSER THAN 500 MIN TO LINE OF INFLUENCE – APPLIES TO ANY TANK ORIENTATION) R BUILDING STRUCTURE	NOTES: - ALL DIMENSIONS I - REFER TO STRUC: OR CONCRETE REII - ALL LEVELS SHALL CONTRACTOR PRIC WORK. - ALL UNDERGROUN LOCATED AND MAR WORKS, - DEVAN PLASTICS I IMMEDIATELY SHOU PARAMETERS SHOU ACHIEVABLE. - REFER TO DEVAN BURIAL DEPTH ALLO - TEMPORARY SUPF OUT IN ACCORDANS SAFETY GUIDELINE - STORTVAULT INSTA CONJUCTION WITH GUIDE AND THESE I SOIL CONDITIONS SITE SOIL CONDITIONS FROVIDED AN ULTII KPA IS ACHIEVABLE SUPPORTING THE S ALLOWANCE FOR I SLOPE STABILITY IS THE CONTRACTOR SHAT TRESPECT TO ADJAG THE LIMITS AND RE DRAWINGS. DEVAN IMMEDIATELY IF TH BACKFILL AND BASSI GAP 10 OF GAP 20 SI BASECOURSE MATT SHALL NOT BE USE APPROVAL OF DEV/ CONTRACTOR SHAI CONTRACTOR SHAI CONTRACTOR SHAI CONTRACTOR SHAI CONTRACTOR SHAI INDUSTRY PROFES	N MILLIMETRE IVERAL SPECIF VERCING & C . BE CONFIRM R TO COMMEN ID SERVICES : LTD SHALL BE JLD ANY OF TH VN ON THE DF PLASTICS LTC PLASTICS LTC DWANCES. 20RT AND SHO CE WITH WOR S. LLATON TO BI DEVAN PRODI DRAMINGS ORATE BEARING . CASS M AS I MATE BEARING . FOR THE SUB LAB AND THE JOUIFIABLE S SUES. IT IS TH AND THE OWN TOR AND OWN HE LOCATION SENTICES LIMITS AF COURSE: HALL BE USED DIS ALLOW FR . COURSE: HALL BE USED DIS ALLOR FILL L BACKFILL LI L BACKFILL LI L BACKFILL LI L BACKFILL LI L BACKFILL LI L CONSULT VI ONALS SHOULD . CONSULT VI ONALS SHOULD . CONSULT VI ONALS SHOULD . CONSULT VI ONALS SHOULD . CONSULT VI . CONSULT VI	SUNO ICATIONS S DTHER NOTE ED BY THE NCEMENT O SHALL BE C O ANY EXCA NOTIFIED HE DESIGN RAWINGS N O FOR MAXII DRING TO B KSAFE EXC E CARRIED UCT INFOR! DR EXPANS: DEFINED IN O CARACITY SGRADE DIF BASECOUR DASECOUR DASECOUR DASECOUR DASECOUR BASECOUR D	HEET SS F ONFIRMED, VATION OT BE MUM E CARRIED AVATION OUT IN MATION OUT IN MATION FILL AND FILL AND FILL AND FILL AND FILL AND FILL AND FILL AND FILL AND OF THE OURING MITTED TO, SLE R	
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MAXIMUM POSSIBLE WATER LEVEL AS STATED IN A VALIDATED REPORT OR BY SPECIFIC WATER TABLE INFORMATION	NOTE: THIS SHEET IS FOR THE INSTALLATION OF TANKS ABOVE MAXIMUM POSSIBLE WATER TABLE LEVELS OR FOR INSTALLATIONS NOT REQUIRING ANCHOR PADS AS DETERMINED THROUGH "DEVAN PLASTICS stormVAULT UNDERGROUND CYLINDRICAL TANKS TOOLBOX VERSION 1.0 (OR HIGHER) CALCULATOR". IF TANKS ARE BEING INSTALLED ABOVE MAXIMUM POSSIBLE WATER TABLE LEVELS THEN SITE SPECIFIC REPORTS OR WATER TABLE INFORMATION MUST PROVE THE WATER LEVEL CAN NOT POSSIBLY RISE ABOVE THE BOTTOM OF THE EXCAVATION. IF THIS INFORMATION CAN NOT BE PROVIDED, REFER TO SHEET 059-003-S-203. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND OWNER TO ENSURE CORRECT TANK INSTALLATION IN ACCORDANCE WITH THE DEVAN INSTALLATION GUIDES AND DRAWINGS.				
IDARD DESIGN FOR	FOR C	ONSTRU	CTION		
WITHOUT ANCHORS -	SCALE	Drawing No.		REVISION	
STRUCTIONS - SLAB ON	1:A3x2 @ A1	059-003	-S-202	1	



DEVAN stormVAULT BASE OF TANK EXCAVATION TO BE BEYOND THE LINE OF INFLUENCE SHOWN (LOWEST POINT OF TANK NO CLOSER THAN 500 MIN TO LINE OF INFLUENCE - APPLIES TO ANY TANK ORIENTATION) RBUILDING STRUCTURE	NOTES: - ALL DIMENSIONS I - REFER TO STRUCT OR CONCRETE REID - ALL LEVELS SHALL CONTRACTOR PRIV WORK. - ALL UNDERGROUM LOCATED AND MAR WORKS, - DEVAN PLASTICS I IMMEDIATELY SHOL PARAMETERS SHOW ACHIEVABLE. - REFER TO DEVAN BURIAL DEPTH ALLO - TEMPORARY SUPP OUT IN ACCORDANG SAFETY GUIDELINE - STORNVAULT INSTA CONJUCTION WITH GUIDE AND THESE I SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS FROVIDED AN ULTIN KPA IS ACHIEVABLE SUPPORTING THE SI ALLOWANCE FOR I SLOPE STABILITY IS THE CONTRACTOR P STRUCTURES: IT IS THE CONTRACT TO ENSURE THAT T RESPECT TO ADJAG THE LIMITS AND RE DRAWINGS. DEVAN IMMEDIATELY IF TH BACKFILL AND BE USEI APPROVAL OF DEV/ CONTRACTOR SHAI CONTRACTOR SHAI MANAGING THE ST/ EXCAVATION IS THE CONTRACTOR SHAI INDUSTRY PROFESI GUIDANCE BE REQU AND SHORING. ELOADING: VEHICLES UP TO 10 3.1(g) NZS 1170.1, 5I CONTRACTOR SHAI INDUSTRY PROFESI GUIDANCE BE REQU AND SHORING. LOADING: VEHICLES UP TO 10 3.1(g) NZS 1170.1, 5I CONTRACTOR SHAI INDUSTRY PROFESI GUIDANCE BE REQU AND SHORING. LOADING: VEHICLES UP TO 10 3.1(g) NZS 1170.1, 5I CONTRACTOR SHAI INDUSTRY PROFESI GUIDANCE BE REQU AND SHORING. LOADING: VEHICLES UP TO 10 3.1(g) NZS 1170.1, 5I CONTRACTOR SHAI INDUSTRY PROFESI GUIDANCE BE REQU AND SHORING. LOADING: VEHICLES UP TO 10 3.1(g) NZS 1170.1, 5I CONTRACTOR SHAI INDUSTRY PROFESI GUIDANCE BE REQU AND SHORING. LOADING: VEHICLES UP TO 10 3.1(g) NZS 1170.1, 5I CONTRACTOR AND DOSTINON DOES NO GREATER THAN SPI THE DESIGN LIFE O NOTE: THIS SHEET IS FOR REQUIRING ANCHO SUDIANCE BE READ AND SHORING. DOSTINON DOES NO GREATER THAN SPI THE DESIGN LIFE O NOTE: THIS SHEET IS FOR CONTRACTOR AND SUDIANCE BE READ SUDIANCE SHAR SUDANCE SHAR SUDANCE	N MILLIMETRE TURAL SPECIE PFORCING & C BE CONFIRM IR TO COMMEI VD SERVICES : KED PRIOR TC LTD SHALL BE JLD ANY OF TT WN ON THE DF PLASTICS LTE DWANCES. PORT AND SHC CE WITH WOR S. LLATION TO BI DEVAN PRODI DRAWINGS DNS ALLOW FC CLASS M AS I DEVAN PRODI DRAWINGS DNS ALLOW FC CLASS M AS I DEVAN PRODI DRAWINGS DNS ALLOW FC CLASS M AS I LOUFIFABE ARING FOR THE SUE SUES. IT IS TH AND THE OWN FIL DCATION SING ALLOW FC CLASS M AS I DONS ALLOW FC CLASS M AS I SUES. IT IS TH AND THE SUES. IT STRUCTION SENT STRUCTION SENT STRUCTIONS S PLASTICS LTI OSE LIMITS AF ECOURSE: HALL BE USED DI THE HALTH IS INCLENT SU DES AND BES' THE HEALTH IS INCLED FOR BE DES AND BES' THE HEALTH IS INCLED THE STRUCTIONS S DES AND BES' THE HEALTH IS INCLED FOR BE DONOR "MEDIU KPA / 31KN. TANK OWNERT AND AS DEN SAUD SE THE COURSE THE COURSE THE DONOR TO SAUDIED TO NONOR STRUCTION SAUDIED TO SAUDIED TO SAUDIED TO SAUDIED TO SAUDIED TO SAUDIED TO SAUDIED TO SAUDIED TO SAUDIED TO SAUDIES S	ES UNO ICATIONS S STHER NOTI IED BY THE NCEMENT C SHALL BE C ANY EXCA NOTIFIED HE DESIGN RAWINGS N FOR MAXIF DRING TO BE IE CARRIED UCT INFORI CRESPONSI IE CARRIED UCT INFORI DR EXPANSI DEFINED IN CRESPONSI IE CARRIED UCT INFORI IE CARRIED UCT INFORI IE CARRIED UCT INFORI IE CARRIED INFORI IE CARRIED INFORI INFORI IE CARRIED INFORI IE CARRIED INFORI INFORI IE CARRIED INFORI IE CARRIE INFORI IE CARRIED INFORI IE CARRIED INFORI IE CARRIED INFORI IE CARRIED INFORI INFORI INFORI INFORI IE CARRIE INFORI INFOR	HEET S PF ONFIRMED, VATION DT BE MUM E CARRIED AVATION OUT IN AVATION OUT IN MATION VE SOIL UP AVATION VE SOIL UP AVATION OUT IN MATION VE SOIL UP AVATION OUT IN MATION VE SOIL UP AVATION OUT IN MATION VE SOIL UP AVATION OF 300 ECTLY SE. NO LWITH HE ONSIBILITY VE WITH HE DONSIBILITY VE WITH HE TOOLS FILL AND I I MM. THE TOOLS FILL AND I I MM. THE TOOLS THER NOTIFIED I I OURING WITH THE TOOLS THERING, THERING, I CORRECT THE DUG NGS FOR NKS THROUGH ID OUR SILLTY ONSIGN I CORRECT THE DUG I I I I I I I I I I I I I
NOTE: TANK PIT MAY BE WIDENED BY 100MM ON EITHER SIDE TO FIT SHORING MODULES IE DECUIDED	THE CONTRACTOR TANK INSTALLATION INSTALLATION GUIE	AND OWNER T N IN ACCORDA DES AND DRAV	TO ENSURE NCE WITH VINGS.	CORRECT THE DEVAN
IF REQUIRED				
IDARD DESIGN FOR	FOR C	ONSTRU	CTION	
- DOUBLE TANK	SCALE	Drawing No.		REVISION
ITH ANCHORS - SLAB ON	1:A3x2 @ A1	059-003	-S-203	1



DEVAN stormVAULT BASE OF TANK EXCAVATION TO BE BEYOND THE LINE OF INFLUENCE SHOWN (LOWEST POINT OF TANK NO CLOSER THAN 500 MIN TO LINE OF INFLUENCE – APPLIES TO ANY TANK ORIENTATION) R BUILDING STRUCTURE	NOTES: - ALL DIMENSIONS I - REFER TO STRUC OR CONCRETE REIF - ALL LEVELS SHALL CONTRACTOR PRIC WORK. - ALL UNDERGROUT LOCATED AND MAR WORKS, - DEVAN PLASTICS I IMMEDIATELY SHOU PARAMETERS SHOU ACHIEVABLE. - REFER TO DEVAN BURIAL DEPTH ALLO - TEMPORARY SUPP OUT IN ACCORDANG SAFETY GUIDELINE - StormVAULT INSTA CONJUCTION WITH GUIDE AND THESE I SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS F CONSTRUCTION WO TANK LOCATION - P STRUCTURES: IT IS THE CONTRACTOR SITE CONDITIONS F CONSTRUCTION WO TANK LOCATION - P STRUCTURES: IT IS THE CONTRACTOR SITE CONDITIONS F CONSTRUCTION WO TANK LOCATION - P STRUCTURES: IT IS THE CONTRACTOR SITE CONDITIONS F CONSTRUCTION WO CONTRACTOR SHAI AND CONSTRUCTIO VOIDS ARE FILLED - TANK, ENSURING SI BATTERING/BENCH MANAGING THE STA AND CONSTRUCTION VOIDS ARE FILLED - TANK, ENSURING SHAI AND CONSTRUCTION STHE CONTRACTOR SHAI AND CONSTRUCTION SHAI AND CONSTRUCTOR SHAI AND CONSTRUC	N MILLIMETRE VICRAL SPECIF VFORCING & C BE CONFIRM R TO COMMEN ND SERVICES : KED PRIOR TO LTD SHALL BE JLD ANY OF TH WN ON THE DF PLASTICS LTD DWANCES. 20RT AND SHO CE WITH WOR S. LLATION TO BI DEVAN PRODI DRAWINGS DRAWING DRAWING DRAWING DRAWING DRAWING DRAWING DRAWINGS DRAWING DRAWI	SUNO ICATIONS S DTHER NOTE ED BY THE NCEMENT C SHALL BE C D ANY EXCA NOTIFIED HE DESIGN AWINGS NU DESIGN AWINGS NU DESIGN AWI	HEET S F ONFIRMED, VATION DT BE MUM E CARRIED AVATION OUT IN ACTION OUT IN MATION VE SOIL UP AS2870, OF 300 ECTLY SE. NO LWITH SIBILITY OF IFY THE HE ONSIBILITY VE WITH HESE NOTIFIED IEV ABLE. FILL AND ERIAL I MM. THE TOOLS RE ALL I OF THE DURING WITH THE S IN Y AT MITED TO, SLE RE ALL I MITED TO, SLE ALL I MITED TO, SLE ALL ALL ALL ALL ALL ALL ALL A
	LOADING: VEHICLES UP TO 10 3.1(g) NZS 1170.1, 5 CONTRACTOR AND POSITION DOES NO GREATER THAN SPI THE DESIGN LIFE O	,000kg "MEDIU kPA / 31kN. TANK OWNER T EXPOSE TH ECIFIED IN TH F THE UNIT.	M" TRAFFIC TO ENSUR TANK TO L ESE DRAWII	TABLE E TANK .OADS NGS FOR
MAXIMUM POSSIBLE WATER LEVEL AS STATED IN A VALIDATED REPORT OR BY SPECIFIC WATER TABLE INFORMATION	NOTE: THIS SHEET IS FOR ABOVE MAXIMUM P FOR INSTALLATION DETERMINED THRO UNDERGROUND CY VERSION 1.0 (OR HI BEING INSTALLED A TABLE LEVELS THEI WATER TABLE INFO LEVEL CAN NOT PO OF THE EXCAVATIO BE PROVIDED, REFI THE RESPONSIBILIT OWNER TO ENSURI ACCORDANCE WITT AND DRAWINGS.	THE INSTALLA OSSIBLE WATI S NOT REQUIF UIGH "DEVAN I LINDRICAL TA GHER) CALCU BOVE MAXIMU SSIBLY RISE A N. IF THIS INFI ER TO SHEET (Y OF THE CON E CORRECT TA 1 THE DEVAN I	ATION OF TA ER TABLE L RING ANCHO PLASTICS SI NKS TOOLB LATOR". IF JM POSSIBL IC REPORT ST PROVE THE IC REPORT ST PROVE THE BOVE THE IS PROVE THE ST	NKS EVELS OR DR PADS AS ormVAULT OX TANKS ARE E WATER 30TTOM CAN NOT 35. IT IS AND JATION IN DN GUIDES
IDARD DESIGN FOR	FOR C	ONSTRU	CTION	
WITHOUT ANCHORS -	SCALE	Drawing No.		REVISION
STRUCTIONS - SLAB ON	AS malcated @ A3 1:A3x2 @ A1	059-003	-S-204	1



DEVAN stormVAULT BASE OF TANK EXCAVATION TO BE BEYOND THE LINE OF INFLUENCE SHOWN (LOWEST POINT OF TANK NO CLOSER THAN 500 MIN TO LINE OF INFLUENCE - APPLIES TO ANY TANK ORIENTATION) AR BUILDING STRUCTURE NOTE: TANK NOTH MAY BE WIDENED BY 100M AN BE ITHER SIDE TO FIT SHORING MODULES	NOTES: - ALL DIMENSIONS I - REFER TO STRUC OR CONCRETE REIL - ALL LEVELS SHALL CONTRACTOR PRIC WORK. - ALL UNDERGROUI LOCATED AND MAR WORKS, - DEVAN PLASTICS IMMEDIATELY SHOI PARAMETERS SHOU ACHIEVABLE. - REFER TO DEVAN BURIAL DEPTH ALL - TEMPORARY SUPI OUT IN ACCORDAN SAFETY GUIDELINE - storm VAULT INSTA CONJUCTION WITH GUIDE AND THESE SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS FOOVIDED AN ULTI KPA IS ACHIEVABLE. - ALLOWANCE FOR I SUPPORTING THE SALLOWANCE FOR I SLOPE STABILITY IS THE CONTRACTOR SITE CONDITIONS F CONSTRUCTION WITH BACKFILL AND BASS GAP 10 or GAP 20 S BASECOURSE MATT SHALL NOT BE USE APPROVAL OF DEV. CONTRACTOR SHAL AND CONSTRUCTION IS THE CONTRACTOR SHAL AND CONSTRUCTION SHAL AND SHORING. BATTERING/BENCH MANAGING THE ST/ ECCAVATION IS THE CONTRACTOR SHAL AND SHORING. BATTERING/BENCH MANAGING THE ST/ ECCAVATION STALLED TANK, ENSURING S BATTERING/BENCH MANAGING THE ST/ ECCAVATION STHE CONTRACTOR SHAL AND SHORING. BATTERING/BENCH MANAGING THE ST/ ECONTRACTOR SHAL AND SHORING. BATTERING/BENCH MANAGING THE ST/ ECONTRACTOR SHAL AND CONSTRUCTION STHE CONTRACTOR SHAL AND SHORING. BATTERING/BENCH MANAGING THE ST/ ECONTRACTOR SHAL AND CONSTRUCTION STHE CONTRACTOR SHAL AND SHORING. BATTERING/BENCH MANAGING THE ST/ ECONTRACTOR SHAL AND CONSTRUCTION STHE CONTRACTOR SHAL AND SHORING. BATTERING SHAL AND SHORING. BATTERIN	N MILLIMETRES UNO TURAL SPECIFICATIONS S VFORCING & OTHER NOTE BE CONFIRMED BY THE R TO COMMENCEMENT C VID SERVICES SHALL BE C KED PRIOR TO ANY EXCA LTD SHALL BE NOTIFIED JLD ANY OF THE DESIGN WN ON THE DRAWINGS NO PLASTICS LTD FOR MAXIN DWANCES. PORT AND SHORING TO BI CE WITH WORKSAFE EXC S. LLATION TO BE CARRIED DEVAN PRODUCT INFORM DRAWINGS ONS ALLOW FOR EXPANSI CLASS H2 AS DEFINED IN WATE BEARING CAPACITY FOR THE SUBGRADE DIF SUBS. IT IS THE RESPONS AND THE OWNER TO VER "RIOR TO COMMENCING TO DRKS. ROXIMITY TO NEARBY TOR AND OWNER'S RESP HE LOCATION OF THE TAT SUSUES. IT IS THE RESPONS AND THE OWNER TO VER "RIOR TO COMMENCING TO DRKS. ROXIMITY TO NEARBY TOR AND OWNER'S RESP HE LOCATION OF THE TAT DASTICS LTD SHALL BE COURSE: HALL BE USED FOR BACKL ERAL, ALTERNATIVE MATI D WITHOUT THE WRITTEN AN PLASTICS LTD SHALL BE OSE LIMITS ARE NOT ACH ECOURSE: HALL BE CARRIED OUT NES AND BEST PRACTICE TOR AND DEST PRACTICE IN TECHNIQUES TO ENSUL ALONG THE FULL LENGTH UFFICIENT SUPPORIATE IN TECHNIQUES TO ENSUL ALONG THE FULL LENGTH UFFICIENT SUPPORT. INGISHORIG: ABILITY OF THE TRENCH IE RESPONSIBILITY OF THE RESPONSIBILTY OF THE RESPONSIBILTY OF THE TAN NO WITHOUT THE WRITTEN AN PLASTICS LTD. LL BACKFILL LIFTS OF 150 LL USE THE APPROPRIATE IN TECHNIQUES TO ENSUL ALONG THE FULL LENGTH UFFICIENT SUPPORT. INGISHORIG: ABILITY OF THE TRENCH IE RESPONSIBILTY OF THE RESPONSIBILTY OF THE RESPONSIBILTY OF THE TRENCH IE RESPONSIBILTY OF THE TRENCH IE SIGNLIDES, BUNCH TRAFFIC NITECHNIQUES, AND REST PRACTICE IS INCLUDES, BUNCH INTO SIT DECONCLUSS TO RESPONSIBILTY IS AND WACK TO ENSURA	HEET S F ONFIRMED, VATION DT BE MUM E CARRIED AVATION OUT IN ATTION OUT IN ASS870, OF 300 ECTLY SECTLY SECTLY SECTLY SIBILITY OF IFY THE HE ONSIBILITY WITH HESE NOTIFIED IEV ABLE. FILL AND ERIAL I MM. THE TOOLS RE ALL I OUT IN HESE NOTIFIED IEV ABLE. FILL AND ERIAL I OUT IN HESE NOTIFIED IEV ABLE. FILL AND ERIAL I OUT IN HESE NOTIFIED IEV ABLE. FILL AND ERIAL I OUT IN HESE NOTIFIED IEV ABLE. THE OURING I TABLE E TANK OGS FOR I WKS THROUGH ID CORRECT FHE DEVAN
NOTE: TANK PIT MAY BE WIDENED BY 100MM ON EITHER SIDE TO FIT SHORING MODULES IF REQUIRED	TANK INSTALLATIOI INSTALLATION GUI	N IN ACCORDANCE WITH T DES AND DRAWINGS.	THE DEVAN
IMUM EXCAVATED EARANCE AROUND TANK mm MINIMUM. UNLESS OUND ANCHORS ARE QUIRED			
IDARD DESIGN FOR	FOR C		
- DOUBLE TANK	SCALE	Drawing No.	REVISION
ITH ANCHORS - SLAB ON	1:A3x2 @ A1	059-003 -S-205	1



EVAN stormVAULT ISE OF TANK EXCAVATION DE BEYOND THE LINE OF FLUENCE SHOWN DWEST POINT OF INK NO CLOSER IAN 500 MIN TO LINE "INFLUENCE - PULIES TO ANY TANK RENTATION BUILDING STRUCTURE	NOTES: - ALL DIMENSIONS I - REFER TO STRUC OR CONCRETE REII - ALL LEVELS SHALL CONTRACTOR PRIC WORK. - ALL LIVELS SHALL CONTRACTOR PRIC WORK, - ALL UNDERGROUT LOCATED AND MAR WORKS, - DEVAN PLASTICS I IMMEDIATELY SHOU PARAMETERS SHOU ACHIEVABLE. - REFER TO DEVAN BURIAL DEPTH ALLO - TEMPORARY SUPP OUT IN ACCORDAN SAFETY GUIDELINE - stormVAULT INSTA CONJUCTION WITH GROUND'' AS DEFIN ALLOWANCE FOR E SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITION GROUND'' AS DEFIN ALLOWANCE FOR E SOIL ONDITIONS IT IS THE CONTRACT TO ENSURE THAT T RESPECT TO ADJAC THE LIMITS AND RE DRAWINGS. DEVAN IMMEDIATELY IF TH BACKFILL AND BASS GAP 10 or GAP 20 SI BASECOURSE MATT SHALL NOT BE USE APPROVAL OF DEV/ CONTRACTOR SHAL CONTRACTOR SHAI CONTRACTOR SHAI INDUSTRY PROFES GUIDANCE BE REQU AND SHORING.	N MILLIMETRES IVRAL SPECIFIC VFORCING & OTI BE CONFIRMEL R TO COMMENC VID SERVICES SH KED PRIOR TO A LTD SHALL BE NU JLD ANY OF THE WN ON THE DRAM PLASTICS LTD F DWANCES. PORT AND SHOR CE WITH WORKS S. LLATION TO BE (DEVAN PRODUC DRAWINGS DNS ARE CONSIS ED IN NZS3604:2 XPANSIVE OR LI CONSTRUCTION ROXIMITY TO NE TOR AND OWNE HE LOCATION ON ROXIMITY TO NE TOR AND OWNE HE LOCATION SET PLASTICS LTD F PLASTICS LTD F CONSTRUCTION ROXIMITY TO NE ECOURSE: HALL BE USED F RIALL ALTERNA' D WITHOUT THE AN PLASTICS LTD D WITHOUT THE ALL DE SHE CARP NEASTICS LTD D WITHOUT THE ALL DE CARP N TECHNIQUES, BI DEEPER THAN 1 L BACKFILL LIF' L USE THE APPI N TECHNIQUES, BI DEEPER THAN 1 L CONSULT WIT IONALS SHOULD JIRED FOR BENC	UNO AATIONS S HER NOTE D BY THE ZEMENT O JEXEMENT O JUNY EXCA' OTIFIED DESIGN WINGS NO COR MAXIN UNG TO BI SAFE EXC/ CARRIED O CT INFORM CARRIED O CT INFORM ING TO BI SAFE EXC/ CARRIED O CT INFORM ING TO BI SAFE EXC/ CARRIED O TO BACK/ TIVE MATE WRITTEN D COR BACK/ TIVE MATE WRITTEN D COR BACK/ TIVE MATE WRITTEN D COR BACK/ TIVE MATE WRITTEN D COR BACK/ TIVE MATE CONSUL LENGTH COR SAFET UN NOT ACH D COR BACK/ TIVE MATE CONSULTIONS COR COR BACK/ TIVE MATE CONSULT SHALL BE IN SOF 150 ROPRIATE CONSULT SHALLENGTH CONSULT SHALL BE IN SOF 150 ROPRIATE CONSULT SHALL BE IN STACK CONSULT SHALL BE IN STACK CONSULT SHALL SHALL SHALL SHALL SHALL SHALL SHALL SHALL SHALL S	HEET S F ONFIRMED, VATION DT BE AUM E CARRIED AUM E CARRIED AVATION OUT IN ATION OUT IN ATION AT
	NOTE: THIS SHEET IS FOR ABOVE MAXIMUM P FOR INSTALLATION DETERMINED THRC UNDERGROUND CY VERSION 1.0 (OR HI BEING INSTALLED A TABLE LEVELS THEI WATER TABLE INFO LEVEL CAN NOT PO OF THE EXCAVATIO BE PROVIDED, REFI THE RESPONSIBILIT OWNER TO ENSURI	THE INSTALLATI OSSIBLE WATER UGH "DEVAN PL LINDRICAL TANH GHER) CALCULA BOVE MAXIMUM N SITE SPECIFIC RMATION MUST SSIBLY RISE ABO N. IF THIS INFOF ER TO SHEET 05 Y OF THE CONT E CORRECT TAN	ION OF TA TABLE LE IG ANCHC STOOLB ATOR". IF 1 POSSIBL REPORTS PROVE T OVE THE E RMATION (9-003-S-30 RACTOR / K INSTALL STALL 4T/2	NKS EVELS OR PADS AS ormVAULT OX FANKS ARE E WATER S OR HE WATER SOTTOM CAN NOT D1. IT IS AND AND NO D1. GUIDES
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WITHOUT ANCHORS-	SCALE	Drawing No.		REVISION
TRUCTIONS - SLAB ON	As indicated @ A3 1:A3x2 @ A1	059-003 -	S-300	1



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- EVAN stormVAULT ASE OF TANK EXCAVATION O BE BEYOND THE LINE OF IFLUENCE SHOWN .OWEST POINT OF ANK NO CLOSER HAN 500 MIN TO LINE F INFLUENCE – PPLIES TO ANY TANK RIENTATION)	NOTES: - ALL DIMENSIONS I - REFER TO STRUC OR CONCRETE REII - ALL LEVELS SHALL CONTRACTOR PRIC WORK. - ALL UNDERGROUT LOCATED AND MAR WORKS, - DEVAN PLASTICS IMMEDIATELY SHOU PARAMETERS SHOW ACHIEVABLE. - REFER TO DEVAN BURIAL DEPTH ALLO - TEMPORARY SUPF OUT IN ACCORDAN SAFETY GUIDELINE - storm VAULT INSTA	N MILLIMETRES UNO TURAL SPECIFICATIONS (VFORCING & OTHER NOT BE CONFIRMED BY THE IN TO COMMENCEMENT (ND SERVICES SHALL BE O KED PRIOR TO ANY EXC/ LTD SHALL BE NOTIFIED JLD ANY OF THE DESIGN WN ON THE DRAWINGS N PLASTICS LTD FOR MAXI DWANCES. PORT AND SHORING TO E CE WITH WORKSAFE EXC S. LLATION TO BE CARRIED	SHEET ES OF CONFIRMED, WATION OT BE MUM E CARRIED AVATION
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	BATTERING/BENCH MANAGING THE ST/ EXCAVATION IS THE CONTRACTOR, AND RELEVANT GUIDELI ACCORDANCE WITI WORK ACT 2015. TH ANY EXCAVATIONS CONTRACTOR SHAI INDUSTRY PROFES GUIDANCE BE REQU AND SHORING.	ING/SHORING: ABILITY OF THE TRENCH I E RESPONSIBILITY OF TH SHALL BE CARRIED OUT NES AND BEST PRACTICE 1 THE HEALTH AND SAFE IIS INCLUDES, BUT NOT L DEEPER THAN 1.5M. THE LL CONSULT WITH SUITAI IONALS SHOULD FURTHE JIRED FOR BENCHING, BJ	DURING E WITH THE ES IN TY AT IMITED TO, BLE R ATTERING,
	LOADING: VEHICLES UP TO 10 3.1(g) NZS 1170.1, 5 CONTRACTOR AND POSITION DOES NO GREATER THAN SPI THE DESIGN LIFE O	,000kg "MEDIUM" TRAFFIC KPA / 31kN. TANK OWNER TO ENSUR T EXPOSE THE TANK TO ECIFIED IN THESE DRAWI F THE UNIT.	C TABLE E TANK LOADS NGS FOR
	NOTE: THIS SHEET IS FOR REQUIRING ANCHO "DEVAN PLASTICS & CYLINDRICAL TANK HIGHER) CALCULAT THE CONTRACTOR TANK INSTALLATION GUID	THE INSTALLATION OF T. R PADS AS DETERMINED tormVAULT UNDERGROU 5 TOOLBOX VERSION 1.0 "OR". IT IS THE RESPONS AND OWNER TO ENSURE N IN ACCORDANCE WITH DES AND DRAWINGS.	ANKS THROUGH ND (OR BILITY OF CORRECT THE DEVAN
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- TRIPLE TANK ITH ANCHORS - SLAB ON	SCALE As indicated @ A3 1:A3x2 @ A1	Drawing No.	REVISION
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VAN stormVAULT SE OF TANK EXCAVATION BE BEYOND THE LINE OF LUENCE SHOWN WEST POINT OF KX NO CLOSER N 500 MIN TO LINE INFLUENCE – *LIES TO ANY TANK IENTATION)	NOTES: - ALL DIMENSIONS I - REFER TO STRUC' OR CONCRETE REIN - ALL LEVELS SHALL CONTRACTOR PRICU WORK. - ALL LEVELS SHALL CONTRACTOR PRICU WORK. - ALL UNDERGROUN LOCATED AND MAR WORKS, - DEVAN PLASTICS I IMMEDIATELY SHOL PARAMETERS SHOL ACHIEVABLE. - REFER TO DEVAN BURIAL DEPTH ALLO - TEMPORARY SUPP OUT IN ACCORDANG SAFETY GUIDELINE - stormVAULT INSTAL CONJUCTION WITH GUIDE AND THESE I SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS SITE CONDITIONS SITE CONDITIONS SITE CONDITIONS SITE CONDITIONS SITE CONDITIONS SITE CONDITIONS SITE CONDITIONS SITE CONDITION WITH ES ACHIEVABLE SUPPORTING THE SE ALLOWANCE FOR I SLOPE STABILITY IS THE CONTRACTOR SITE CONSTRUCTION WO TANK LOCATION -P STRUCTURES: IT IS THE CONTRACTOR SITE SOLOR THAT T RESPECT TO ADJAC THE LIMITS AND RE DRAWINGS. DEVAN IMMEDIATELY IF TH BACKFILL AND BASI GAP 10 oF GAP 20 SI BASECOURSE MATT SHALL NOT BE USE APPROVAL OF DEV/ CONTRACTOR SHAI AND CONSTRUCTION STHE CONTRACTOR SHAI AND CONSTRUCTION STHE CONTRACTOR SHAI AND CONSTRUCTION STHE CONTRACTOR SHAI AND CONSTRUCTION STHE CONTRACTOR SHAI INDUSTRY PROFESI GUIDANCE BE REQU	N MILLIMETRES UNO TURAL SPECIFICATIONS S VFORCING & OTHER NOTI . BE CONFIRMED BY THE R TO COMMENCEMENT C ND SERVICES SHALL BE C KED PRIOR TO ANY EXCA .TD SHALL BE NOTIFIED JLD ANY OF THE DESIGN VN ON THE DRAWINGS N PLASTICS LTD FOR MAXII DWANCES. 20RT AND SHORING TO B CE WITH WORKSAFE EXC S.	HEET S ONFIRMED, VATION OT BE MUM E CARRIED AVATION OUT IN VE SOIL UP AS2870, OF 300 KECTLY SEENO L WITH SIBILITY OF IFY THE HE ONSIBILITY VK WITH HESE NOTIFIED IFY THE HE ONSIBILITY KWITH HESE NOTIFIED IFY AT INTECTOLS RE ALL I OF THE S IN WITH THE WITH THE WI
	3.1(g) NZS 1170.1, 50 CONTRACTOR AND POSITION DOES NO GREATER THAN SPI THE DESIGN LIFE O	KPA / 31kN. TANK OWNER TO ENSUR T EXPOSE THE TANK TO I ECIFIED IN THESE DRAWI F THE UNIT.	E TANK OADS NGS FOR
AUM POSSIBLE R LEVEL ATED IN A ATED REPORT 'SPECIFIC R TABLE EMATION	NOTE: THIS SHEET IS FOR ABOVE MAXIMUM P FOR INSTALLATION: DETERMINED THRO UNDERGROUND CY VERSION 1.0 (OR HI BEING INSTALLED A TABLE LEVELS THEI WATER TABLE INFO LEVEL CAN NOT PO OF THE EXCAVATIO BE PROVIDED, REFI THE RESPONSIBILIT OWNER TO ENSURE ACCORDANCE WITH AND DRAWINGS.	THE INSTALLATION OF T/ OSSIBLE WATER TABLE L S NOT REQUIRING ANCH(UGH "DEVAN PLASTICS IS LINDRICAL TANKS TOOLE GHER) CALCULATOR". IF BOVE MAXIMUM POSSIBI N SITE SPECIFIC REPORT RMATION MUST PROVE T SSIBLY RISE ABOVE THE N. IF THIS INFORMATION ER TO SHEET 059-003-S-3 Y OF THE CONTRACTOR E CORRECT TANK INSTALL THE DEVAN INSTALLATION	NKS EVELS OR OR PADS AS ormVAULT OX TANKS ARE E WATER S OR HE WATER BOTTOM CAN NOT 03. IT IS AND CAN NOT 03. IT IS AND CAN NOT DN GUIDES
IDARD DESIGN FOR	FOR C	ONSTRUCTION	
WITHOUT ANCHORS -	SCALE	Drawing No.	REVISION
TRUCTIONS - SLAB ON	1:A3x2 @ A1	059-003 -S-302	1



IN stormVAULT E OF TANK EXCAVATION E BEYOND THE LINE OF JENCE SHOWN VEST POINT OF K NO CLOSER I SOO MIN TO LINE IFLUENCE – IES TO ANY TANK NTATION)	NOTES: - ALL DIMENSIONS I - REFER TO STRUC OR CONCRETE REII - ALL LEVELS SHALL CONTRACTOR PRIC WORK. - ALL UNDERGROUN LOCATED AND MAR WORKS, - DEVAN PLASTICS I IMMEDIATELY SHOU PARAMETERS SHOW ACHIEVABLE. - REFER TO DEVAN BURIAL DEPTH ALLO - TEMPORARY SUPP OUT IN ACCORDANY SAFETY GUIDELINE - stormVAULT INSTA CONJUCTION WITH GUIDE AND THESE I	N MILLIMETRES UNO TURAL SPECIFICATIONS S VFORCING & OTHER NOTT DE CONFIRMED BY THE DR TO COMMENCEMENT C ND SERVICES SHALL BE C KED PRIOR TO ANY EXCA LTD SHALL BE NOTIFIED JLD ANY OF THE DESIGN WN ON THE DRAWINGS NO PLASTICS LTD FOR MAXII DWANCES. PORT AND SHORING TO B CE WITH WORKSAFE EXC S. LLATION TO BE CARRIED DEVAN PRODUCT INFORM DRAWINGS	HEET S ONFIRMED, VATION OT BE MUM E CARRIED AVATION OUT IN MATION
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	BATTERING/BENCH MANAGING THE ST EXCAVATION IS THE CONTRACTOR, AND RELEVANT GUIDELI ACCORDANCE WITI WORK ACT 2015. TH ANY EXCAVATIONS CONTRACTOR SHAI INDUSTRY PROFES GUIDANCE BE REQU AND SHORING.	INGISHORING: BAILITY OF THE TRENCH D E RESPONSIBILITY OF THE I SHALL BE CARRIED OUT NES AND BEST PRACTICE 4 THE HEALTH AND SAFET IIS INCLUDES, BUT NOT LI DEEPER THAN 1.5M. THE L CONSULT WITH SUITAE IONALS SHOULD FURTHEI JIRED FOR BENCHING, BA	DURING WITH THE S IN TY AT IMITED TO, SLE R R
	LOADING: VEHICLES UP TO 10 3.1(g) NZS 1170.1,5 CONTRACTOR AND POSITION DOES NO GREATER THAN SPI THE DESIGN LIFE O	000kg "MEDIUM" TRAFFIC KPA / 31KN. TANK OWNER TO ENSUR T EXPOSE THE TANK TO I ECIFIED IN THESE DRAWII F THE UNIT.	CTABLE E TANK OADS NGS FOR
	NOTE: THIS SHEET IS FOR REQUIRING ANCHO "DEVAN PLASTICS & CYLINDRICAL TANK HIGHER) CALCULAT THE CONTRACTOR TANK INSTALLATION INSTALLATION GUID	THE INSTALLATION OF TA R PADS AS DETERMINED formVAULT UNDERGROUN S TOOLBOX VERSION 1.0 OR". IT IS THE RESPONSI AND OWNER TO ENSURE N IN ACCORDANCE WITH DES AND DRAWINGS.	ANKS THROUGH ND (OR BILITY OF CORRECT THE DEVAN
BE WIDENED EITHER SIDE IG MODULES			
DARD DESIGN FOR	FOR C	ONSTRUCTION	
- TRIPLE TANK ITH ANCHORS - SLAB ON	SCALE As indicated @ A3	Drawing No.	REVISION



IN stormVAULT OF TANK EXCAVATION BEYOND THE LINE OF JENCE SHOWN VEST POINT OF NO CLOSER I 500 MIN TO LINE IFLUENCE – IES TO ANY TANK NTATION)	NOTES: - ALL DIMENSIONS I - REFER TO STRUCI OR CONCRETE REII - ALL LEVELS SHALL CONTRACTOR PRIC WORK. - ALL UNDERGROUT LOCATED AND MAR WORKS, - DEVAN PLASTICS IMMEDIATELY SHOU PARAMETERS SHOW ACHIEVABLE. - REFER TO DEVAN BURIAL DEPTH ALLO - TEMPORARY SUPP OUT IN ACCORDANY SAFETY GUIDELINE - stormVAULT INSTA CONJUCTION WITH GUIDE AND THESE I	N MILLIMETRES I FURAL SPECIFIC/ VFORCING & OTH BE CONFIRMED IR TO COMMENCI ID SERVICES SH/ KED PRIOR TO AI LTD SHALL BE NC JLD ANY OF THE VN ON THE DRAV PLASTICS LTD F(DWANCES. PORT AND SHORI CE WITH WORKS, S. LLATION TO BE C DEVAN PRODUCC DRAWINGS	JNO ATIONS S IER NOTE BY THE EMENT O ALL BE C NY EXCA DTIFIED DESIGN VINGS NO DR MAXIN NG TO BI AFE EXC CARRIED	HEET ES ONFIRMED, VATION DT BE MUM E CARRIED AVATION OUT IN MATION
BUILDING STRUCTURE	SOIL CONDITIONS SITE SOIL CONDITIONS ALLOW FOR EXPANSIVE SOIL UP TO AND INCLUDING CLASS H2 AS DEFINED IN AS2870, PROVIDED AN ULTIMATE BEARING CAPACITY OF 300 KPA IS ACHIEVABLE FOR THE SUBGRADE DIRECTLY SUPPORTING THE SLAB AND THE BASECOURSE. NO ALLOWANCE FOR LIQUIFIABLE SOIL, OR SOIL WITH SLOPE STABILITY ISSUES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE OWNER TO VERIFY THE SITE CONDITIONS PRIOR TO COMMENCING THE CONSTRUCTION WORKS.			
	TANK LOCATION - P STRUCTURES: IT IS THE CONTRAC TO ENSURE THAT T RESPECT TO ADJAC THE LIMITS AND RE DRAWINGS. DEVAN IMMEDIATELY IF TH BACKFILL AND BASI	TOR AND OWNEF HE LOCATION OF ENT STRUCTURE STRICTIONS SET PLASTICS LTD SI OSE LIMITS ARE ECOURSE:	R'S RESP THE TAN ES COMP OUT IN T HALL BE NOT ACH	onsibility NK With Ly With Hese Notified Nevable.
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	NOTE: THIS SHEET IS FOR THE INSTALLATION OF TANKS ABOVE MAXIMUM POSSIBLE WATER TABLE LEVELS OR FOR INSTALLATIONS NOT REQUIRING ANCHOR PADS AS DETERMINED THROUGH "DEVAN PLASTICS stormVAULT UNDERGROUND CYLINDRICAL TANKS TOOLBOX VERSION 1.0 (OR HIGHER) CALCULATOR". IF TANKS ARE BEING INSTALLED ABOVE MAXIMUM POSSIBLE WATER TABLE LEVELS THEN SITE SPECIFIC REPORTS OR WATER TABLE INFORMATION MUST PROVE THE WATER LEVEL CAN NOT POSSIBLY RISE ABOVE THE BOTTOM OF THE EXCAVATION. IF THIS INFORMATION CAN NOT BE PROVIDED, REFER TO SHEET 059-003-S-305. IT IS			
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/AN stormVAULT SE OF TANK EXCAVATION BE BEYOND THE LINE OF LUENCE SHOWN WEST POINT OF IK NO CLOSER N 500 MIN TO LINE INFLUENCE – 'LIES TO ANY TANK IENTATION)	NOTES: - ALL DIMENSIONS I - REFER TO STRUC' OR CONCRETE REII - ALL LEVELS SHALL CONTRACTOR PRIC WORK. - ALL UNDERGROUN LOCATED AND MAR WORKS, - DEVAN PLASTICS I IMMEDIATELY SHOU PARAMETERS SHOW ACHIEVABLE. - REFER TO DEVAN BURIAL DEPTH ALLO - TEMPORARY SUPP OUT IN ACCORDANC SAFETY GUIDELINE - stormVAULT INSTA CONJUCTION WITH GUIDE AND THESE I	N MILLIMETRES UNO TURAL SPECIFICATIONS S VFORCING & OTHER NOTT DE CONFIRMED BY THE IR TO COMMENCEMENT C ND SERVICES SHALL BE C KED PRIOR TO ANY EXCA LTD SHALL BE NOTIFIED JLD ANY OF THE DESIGN WN ON THE DRAWINGS NO PLASTICS LTD FOR MAXIN DWANCES. PORT AND SHORING TO B CE WITH WORKSAFE EXC S. LLATION TO BE CARRIED DEVAN PRODUCT INFORM DRAWINGS	HEET SS ONFIRMED, VATION DT BE MUM E CARRIED AVATION OUT IN MATION
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DEVAN stormVAULT BASE OF TANK EXCAVATION -TO BE BEYOND THE LINE OF INFLUENCE SHOWN (LOWEST POINT OF TANK NO CLOSER THAN 500 MIN TO LINE OF INFLUENCE – APPLIES TO ANY TANK ORIENTATION)	NOTES: - ALL DIMENSIONS I - REFER TO STRUC: OR CONCRETE REII - ALL LEVELS SHALL CONTRACTOR PRIC WORK. - ALL UNDERGROUT LOCATED AND MAR WORKS, - DEVAN PLASTICS I IMMEDIATELY SHOU PARAMETERS SHOU ACHIEVABLE. - REFER TO DEVAN BURIAL DEPTH ALLO - TEMPORARY SUPF OUT IN ACCORDANI SAFETY GUIDELINE - STORNYAULT INSTA CONJUCTION WITH GUIDE AND THESE I	N MILLIMETRES UNO TURAL SPECIFICATIONS S VFORCING & OTHER NOT BE CONFIRMED BY THE R TO COMMENCEMENT (ND SERVICES SHALL BE O KED PRIOR TO ANY EXCA LTD SHALL BE NOTIFIED JUD ANY OF THE DESIGN WN ON THE DRAWINGS N PLASTICS LTD FOR MAXI DWANCES. PORT AND SHORING TO B CE WITH WORKSAFE EXC S. LLATION TO BE CARRIED DEVAN PRODUCT INFOR DRAWINGS	SHEET ES ONFIRMED, VATION OT BE MUM E CARRIED AVATION OUT IN MATION
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NING - TRIPLE TANK /ITH ANCHORS - SLAB ON	SCALE As indicated @ A3	Drawing No.	REVISION
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AN stomVAULT E OF TANK EXCAVATION BE BEYOND THE LINE OF USENCE - LIES TO ANY TO LINE NFLUENCE - LIES TO ANY TANK ENTATION) BUILDING STRUCTURE	NOTES: - ALL DIMENSIONS I - REFER TO STRUC OR CONCRETE REII - ALL LEVELS SHALL CONTRACTOR PRIC WORK. - ALL UNDERGROUT LOCATRACTOR PRIC WORKS, - DEVAN PLASTICS I IMMEDIATELY SHOU PARAMETERS SHOU ACHIEVABLE. - REFER TO DEVAN BURIAL DEPTH ALLO - TEMPORARY SUPF OUT IN ACCORDAN SAFETY GUIDELINE - stormVAULT INSTA CONJUCTION WITH GUIDE AND THESE SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS SITE SOIL CONDITIONS SITE CONDITIONS F CONSTRUCTION WO ALLOWANCE FOR I SLOPE STABILITY IS THE CONTRACTOR SITE CONDITIONS F CONSTRUCTION WO TANK LOCATION - P STRUCTION WO DAWINGS. DEVAN IMMEDIATELY IF TH BACKFILL AND BASS GAP 10 or GAP 20 SI BASECOURSE MATT SHALL NOT BE USE APPROVAL OF DEV/ CONTRACTOR SHAI AND CONSTRUCTION IS THE CONTRACTOR SHAI AND CONSTRUCTION SHAI ANAGING THE ST/ ECCAVATION IS THE CONTRACTOR SHAI AND CONSTRUCTION SHAI ANAGING THE ST/ ECCAVATION IS THE CONTRACTOR SHAI AND CONSTRUCTION VORK ACT 2015. T ANY EXCAVATION SI BATTERING/BENCH MANAGING THE ST/ ECCAVATION IS THE CONTRACTOR SHAI AND CONSTRUCTION OCONTRACTOR SHAI AND CONSTRUCTION DETER THIS SHEET IS FOR AND SHORING. LOADING: COMMERCIAL VEHIN 1000 STRY PROFES GUIDANCE BE REQU AND SHORING. DOFT HE RESPONSIBILIT OCONTRACTOR SHAI AND CONSTRUCTION ONS DOTRACTOR SHAI AND CONSTRUCTION STHE CONTRACTOR SHAI AND CONSTRUCTOR SHAI AND CONSTRUCTION STHE CONTRACTOR SHAI AND CONSTRUCTION ONS DATE: THIS SHEET IS FOR ABOVE MAXIMUM P FOR INSTALLATION DETERGROUND (OR HI BEING INSTALLATION DETER THAN SPI THE DESIGN LIFE O NOTE: THE RESPONSIBILIT OWNER TO BUSUR ACCORDANCE WITH AND DRAWINGS.	N MILLIMETRES UNO TURAL SPECIFICATIONS S VFORCING & OTHER NOT BE CONFIRMED BY THE R TO COMMENCEMENT OF D SERVICES SHALL BE O KED PRIOR TO ANY EXCA UD SERVICES SHALL BE O KED PRIOR TO ANY EXCA UTD SHALL BE NOTIFIED JLD ANY OF THE DESIGN WN ON THE DRAWINGS N PLASTICS LTD FOR MAXI DWANCES. 20RT AND SHORING TO BE CE WITH WORKSAFE EXC S. LLATION TO BE CARRIED DEVAN PRODUCT INFOR DRAWINGS CLASS H2 AS DEFINED IN MATE BEARING CAPACITY FOR THE SUBGRADE DI JLAB AND THE BASECOUF JQUIFIABLE SOIL, OR SO SUES. IT IS THE RESPON AND THE OWNER TO VEF RIOR TO COMMENCING TO DRKS. ROXIMITY TO NEARBY TOR AND OWNER'S RESP HE LOCATION OF THE TA SUBGRADE SOUL, OR SO AND THE OWNER TO VEF RIOR TO COMMENCING TO DRKS. ROXIMITY TO NEARBY TOR AND OWNER'S RESP HE LOCATION OF THE TA SUBJES. IT IS THE RESPON AND THE DUSED FOR BACK RIAL, ALTERNATIVE MAT DOSE LIMITS ARE NOT ACH ECOURSE: HALL BE USED FOR BACK RIAL, ALTERNATIVE MAT D WITHOUT THE WRITTEI AN FLASTICS LTD SHALL BE OSE LIMITS ARE NOT ACH ECOURSE: HALL BE USED FOR BACK RIAL, ALTERNATIVE MAT D WITHOUT THE WRITTEI AN FLASTICS LTD. L BACKFILL LIFTS OF 150 L USE THE APPROPRIAT IN TECHNIQUES TO ENSUR JUFFICIENT SUPPORTIAT IN TECHNIQUES, BUT NOT L DEFERTHAN 15M. THE I OROUNDES, BUT NOT L DEFERTHAN 15M. THE I OROUNDES, BUT NOT L DEFERTHAN 15M. THE I OROUNDES, BUT NOT L DEFERTHAN 15M. THE I ONAL S SHOULD FURTHE JIRCL TOR BENCHING, BJ CLES WITH MAX AXLE LO ADING) DANK OWNER TO ENSUR T EXPOSE THE TANK TO UNALS SHOULD FURTHE JURCLAL ANTER TANK TO SIBLY RISE ABOVE THON TO SIBLY RISE ABOVE TO SUSUR TO SHELE WATER TABLE L S NOT REQUIRING ANCH' F THE UNIT. THE INSTALLATION OF T. OSIBLE WATER TABLE L S NOT REQUIRING ANCH' F THE UNIT.	SHEET ES OF CONFIRMED, VATION OT BE MUM E CARRIED AVATION OUT IN MATION OUT IN MATION OUT IN MATION OUT IN MATION OUT IN MATION OUT IN MATION OUT IN MATION IVE SOIL UP ASS2870, YOF 300 RECTLY SSE. NO IL WITH SIBILITY ONSIBILITY NE SOIL UP ASS2870, YOF 300 RECTLY SSE. NO IL WITH SIBILITY ONSIBILITY NE WITH THESE NOTIFIED HEVABLE. FILL AND ERIAL OURING WITH THE E TOOLS RE ALL 1 OF THE SIN TAT INTE TO, SLE R AD OF E TANK LOADS NGS FOR ANKS SOR THE WATER SOR THE WATER SOR THE WATER SON TANKS ARE LE WATER SOR THE WATER SOR THE WATER SOR THE WATER SON TON GUIDES
IDARD DESIGN FOR	FOR C	ONSTRUCTION	
ING - TRIPLE TANK	SCALE As indicated @ A3	Drawing No.	REVISION
ITHOUT ANCHORS - SLAB	1:A3x2 @ A1	059-003 -S-604	1



VAN stormVAULT SE OF TANK EXCAVATION BE BESYOND THE LINE OF FLUENCE SHOWN DWEST POINT OF NK NO CLOSER AN 500 MIN TO LINE INFLUENCE – PLIES TO ANY TANK RENTATION)	NOTES: - ALL DIMENSIONS IN MILLIMETRES UNO - REFER TO STRUCTURAL SPECIFICATIONS SHEET OR CONCRETE REINFORCING & OTHER NOTES - ALL LEVELS SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. - ALL UNDERGROUND SERVICES SHALL BE CONFIRMED, LOCATED AND MARKED PRIOR TO ANY EXCAVATION WORKS, - DEVAN PLASTICS LTD SHALL BE NOTIFIED IMMEDIATELY SHOULD ANY OF THE DESIGN PARAMETERS SHOWN ON THE DRAWINGS NOT BE ACHIEVABLE. - REFER TO DEVAN PLASTICS LTD FOR MAXIMUM BURIAL DEPTH ALLOWANCES. - TEMPORARY SUPPORT AND SHORING TO BE CARRIED OUT IN ACCORDANCE WITH WORKSAFE EXCAVATION SAFETY GUIDELINES. - stormVAULT INSTALLATION TO BE CARRIED OUT IN CONJUCTION WITH DEVAN PRODUCT INFORMATION GUIDE AND THESE DRAWINGS			
BUILDING STRUCTURE	SOIL CONDITIONS SITE SOIL CONDITION TO AND INCLUDING PROVIDED AN ULTII KPA IS ACHIEVABLE SUPPORTING THE S ALLOWANCE FOR I SLOPE STABILITY IS THE CONTRACTOR SITE CONDITIONS F CONSTRUCTION WO	DNS ALLOW FOR EXPANS CLASS H2 AS DEFINED IN MATE BEARING CAPACITY FOR THE SUBGRADE DIF SLAB AND THE BASECOUR LIQUIFIABLE SOIL, OR SOI SUES. IT IS THE RESPON- AND THE OWNER TO VER RIOR TO COMMENCING T DRKS.	IVE SOIL UP I AS2870, OF 300 RECTLY ISE. NO L WITH SIBILITY OF IFY THE HE	
	TANK LOCATION - P STRUCTURES: IT IS THE CONTRAC TO ENSURE THAT T RESPECT TO ADJAC THE LIMITS AND RE DRAWINGS. DEVAN IMMEDIATELY IF TH	ROXIMITY TO NEARBY TOR AND OWNER'S RESP HE LOCATION OF THE TAI SENT STRUCTURES COMF STRICTIONS SET OUT IN 1 PLASTICS LTD SHALL BE OSE LIMITS ARE NOT ACH	ONSIBILITY NK WITH LY WITH FHESE NOTIFIED IIEVABLE.	
	BACKFILL AND BASI GAP 10 or GAP 20 SI BASECOURSE MATE SHALL NOT BE USE APPROVAL OF DEV	<u>ECOURSE:</u> HALL BE USED FOR BACK ERIAL. ALTERNATIVE MATI D WITHOUT THE WRITTEN AN PLASTICS LTD.	FILL AND ERIAL I	
	CONTRACTOR SHAI CONTRACTOR SHAI AND CONSTRUCTIC VOIDS ARE FILLED TANK, ENSURING SI	L BACKFILL LIFTS OF 150 LUSE THE APPROPRIATE IN TECHNIQUES TO ENSU ALONG THE FULL LENGTH UFFICIENT SUPPORT.	MM. THE E TOOLS RE ALL I OF THE	
	BATTERING/BENCHING/SHORING: MANAGING THE STABILITY OF THE TRENCH DURING EXCAVATION IS THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE CARRIED OUT WITH TI RELEVANT GUIDELINES AND BEST PRACTICES IN ACCORDANCE WITH THE HEALTH AND SAFETY AT WORK ACT 2015. THIS INCLUDES, BUT NOT LIMITED ANY EXCAVATIONS DEEPER THAN 1.5M. THE CONTRACTOR SHALL CONSULT WITH SUITABLE INDUSTRY PROFESIONALS SHOULD FURTHER GUIDANCE BE REQUIRED FOR BENCHING, BATTERIN AND SHORING.			
	LOADING: COMMERCIAL VEHI 120kn (NZTA HN LO CONTRACTOR AND POSITION DOES NO GREATER THAN SPI THE DESIGN LIFE O	CLES WITH MAX AXLE LO/ ADING) TANK OWNER TO ENSUR T EXPOSE THE TANK TO I ECIFIED IN THESE DRAWII F THE UNIT.	AD OF E TANK JOADS NGS FOR	
	NOTE: THIS SHEET IS FOR REQUIRING ANCHO "DEVAN PLASTICS S C'LINDRICAL TANK HIGHER CALCULAT THE CONTRACTOR TANK INSTALLATION INSTALLATION GUID	THE INSTALLATION OF TA R PADS AS DETERMINED tormVAULT UNDERGROUN S TOOLBOX VERSION 1.0 'OR''. IT IS THE RESPONSI AND OWNER TO ENSURE N IN ACCORDANCE WITH 'DES AND DRAWINGS.	ANKS THROUGH ND (OR BILITY OF CORRECT THE DEVAN	
'BY FIT UIRED				
DARD DESIGN FOR	FOR C	ONSTRUCTION		
	SCALE As indicated @ A3	Drawing No.	REVISION	
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