										<u> </u>	
	1	2	3	4	5	6	7	8	}	9	10
			SEWAGE PUMP STATION AND RETICUL								
			SCHARGE (TO SEWER, COLLECTION PIT,			Y PRINCIPLES AFFECTING		N DECISIONS		E 4: SHEET INDEX FOR THIS S	
	TABLE 1: DES	GIGN PROCESS (READ THIS FIRS	ST)		ITEM PRINC	IPLE	REQUIREMENT	E MAIN SHUT OFF SECTION		GENERAL REQUIREMENTS. OFFTAKE S SCOUR OFFTAKES - FLANGED FITTING	
	STEP STEP DE	SCRIPTION		GUIDANCE			REQUIRES A SCOUR AT I	TS LOWEST POINT. IF A LOW		SCOUR OFFTAKES - WELDED PE FITTI	
			SURE MAIN LOW POINT LOCATION(S) BA			E THE FULL REMOVAL OF		INOT BE LOCATED AT AN		SCOUR DISCHARGE SELECTION	
	DETERMI	L PRESSURE MAIN LONGITUDINAL INE SHUT OFF VOLUMES AND ESTI		STANDARDS SHEET 1 SCOUR TIME		GE FROM ALL SEWAGE PRESSU SHUT OFF SECTIONS <sup>#</sup>	UNAVOIDABLY DEEP, OF	THERE IS INADEQUATE	5	SCOUR DISCHARGE - GRAVITY SEWEF	R OR COLLECTION PIT
	BINCLUDE	MID-SLOPE SCOURS IF REQUIRED		ESTIMATION NOTES			SPACE FOR A SCOUR AS	SEMBLY, THEN SEW RED TO CREATE A LOW POIN	IT 6	SCOUR DISCHARGE - EDUCTOR DIRECT	r connection
		PRESSURE MAIN VERTICAL ALIGNM INE SCOUR OFFTAKE EXACT LOCA		TABLE 6			WITHOUT A SCOUR DRAI		SCOUR	TIME COMPARATIVE ESTIMATION	
		MOST SUITABLE SCOUR DISCHARG	,	SHEET 4, TABLE 10	DADT	SE SCOUR VOLUME/TIME BY ITIONING PIPE SECTIONS IF SHUT		AFTER SELECTING SCOUR		TIME IS A COMPARATIVE ESTIMATE WI	
			MO AND OBTAIN SEW APPROVAL FOR	THE	B OFF S	ECTION VOLUME IS LARGE OR	ARRANGEMENTS IN ACCO AND 10.	ORDANCE WITH TABLES 6		TIME IS DEPENDANT ON THE FOLLOWIN	
в		ENDATIONS IN DETAIL PIPES EITTINGS AND AN	NY STRUCTURES OR REFER TO STANDA	ARD		TED SCOUR TIME IS LONG CESSIBLE FOR THE VEHICLES A				T OFF SECTION VOLUME (ie: DIAMETER AL HEIGHT OF SHUT OFF SECTION AND	
		ATION DETAILS WHERE APPLICAB		SHEETS 2, 3, 5 & 6	C EQUIP	MENT THAT WILL DRAIN/CLEAN	ACCORDANCE WITH AM2			T GRADES CAN DRAIN SLOWLY WHEN	
	TABLE 2. ADD	PLICABLE STANDARDS		STANDARD APPLIES	THE S	COUR RE NO SEWAGE ESCAPES TO TH	STANDARD E FULLY CONTAIN SEWAG	E TO THE SEWERAGE OR		D FOR AND TIME TO SET UP TEMPORAL	
		SEWAGE PUMP STATION CODE		SURE MAINS AND LARGE DIAMETER		ONMENT	EDUCTION SYSTEM			CTOR TRUCK TURN AROUND TIME (IF E EXTRACTION TIME, WHICH IS:	DUCTION), WHICH DEP
			ED STANDARDS MACERATED SEWAG			LE TO SCOUR TWO SHUT OFF ONS FROM A SINGLE SCOUR	CONNECT SCOURS TO PR			GREATER WHEN EXTRACTING FROM	
		PRESSURE SEWER SYSTEM (PSS)		IG POINTS USED TO SCOUR		E TWO NEIGHBORING SHUT OFF	ACCORDANCE WITH TAB			GREATER WHEN VACUUM EXTRACTIN LESS WHEN PUMPING TO A TRUCK, an	•
	4 MRWA PR	RESSURE SEWER SYSTEM STAND	ARD DRAWINGS RETICULATED PRESS	SURE SEWER PIPES WHICH ARE <b>S DN90PE</b>	· · · · · · · · · · · · · · · · · · ·	ONS SHARE A COMMON LOW PO				LESS WHEN MULTIPLE TRUCKS CAN C	
		FACILITY VEHICLE ACCESS STAND		EDUCTION OR PUMP OUT		ES ARE <b>NOT</b> LISTED IN PRIORITY ECTION IS A PRESSURE MAIN BO		AND/OR AN SPS AND/ OR		VOLUME OF THE TANKER (ie: AVAILA TRANSIT TIME TO AND FROM POINT O	
С		V-302 VALVE SURFACE ARRANGE			PRESSURE MAIN					TRANSIT TIME TO AND FROM POINT C	
		WSAA SEWERAGE CODE (MRWA EE RAVITY SEWERAGE STANDARDS	GRAVITY SEWER CO	NNECTIONS AND ROUND COLLECTION PIT						CITY AREAS, SCHOOL PRECINCTS, etc	
					]				4.4.	RATE OF DISPOSAL (ie: CAPACITY OF	RELEIVING SEWER).
		ELECTION AND SIZING									
				OW POINT OR MID SLOPE) 3) THE TYPE							
		OUR OFFTAKE OPTIONS		HARGE LINES DRAWN GREY AS	THEY INDICAT	IVE ONLY AND NOT CEN	TRAL TO THE INTENT (	OF THIS TABLE)			
	OPTION		Α	В					NISO PIPE SEC	D TION ONLY RISES OR FALLS AND SCOU	
D	OPTION DESCCRIPTION		ON BOTH SIDES OF SCOUR 1ETER VALVES ON PRESSURE MAIN)	≥DN150 MAIN RISING ON BO (MORE EXPENSIVE LARGER DIAMETE		IR SURE MAIN)	SEWER OR COLLECTION	PIT.		TO EDUCTOR DIRECT CONNECTION.	
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		——————————————————————————————————————	× ≤DN100	<u>→↓×↓</u> ≥DN150	—XX,	≥DN150		ANY SIZE			<u>-</u>
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F	SCHEHATIC	▼			COLLECTION PIT O	REDUCTOR				DISCHARGE TO TWIN EDUCTOR	
		TO ANY SCOUR	DISCHARGE	TO SCOUR DISCHARGE	DIRECT CONNEC	_ HUNS)	DISCHARGE TO SEWE OR COLLECTION PIT			DIRECT CONNECTIONS	
				(GRAVITY SEWER OR MORE DISTANT COLLECTION PIT OR							
				DIRECT EDUCTION CONNECTION)							
$\vdash$	REFERENCE	FIGU	RES 1 & 4	FIGURES 3	& 6		FIGURES 2 & 5			FIGURES 3 & 6	
	Т	ABLE 7: SCOUR OFFTAKE R	EQUIREMENTS								
			AIN CHARACTERISTICS	RESULTING SCOUR OFFTAKE RE	QUIREMENTS	TABLE 7 NOTES:					
	PR	RESSURE MAIN SIZE PE MAIN & PE	ENDED VALVES C SCOUR TIME ESTIMA	ATE SCOUR SIZE AND TYPE	REFERENCE				NT SPACE FOR F	PE ENDED VALVES SO THAT FLANGED	SCOUR FITTINGS AR
G			RELEVANT NOT RELEVANT	REFER PRESSURE SEWER STAN		REFER COMPARATIVE SCOUR ON PE MAINS, PE ENDED VAL					
			NO NOT RELEVANT		FIGURE 1	WHERE SPACE AT THE DESIG				RACTICAL.	
	>		YES NOT RELEVANT NO REASONABLE SCOU	DN125PE + PE ENDED VALVES R TIME FLANGED DN100	FIGURE 2 / 3						
				R TIME DN125PE + PE ENDED VALVES							
	2	DN150 (DN180PE <sup>a</sup> )	NO LONGER SCOUR TIM		FIGURE 2 / 3						
		≥DN180PE	YES LONGER SCOUR TIM	E DN180PE + PE ENDED VALVES	FIGURE 5 / 6						
				DESIGNER	DRAFTER	SEW PROJECT MANAGER COPYRIG	IT				
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SELECTION G ARRANGEMENT	[		/ OWNED LAND, ADJACENT TO AN ACCESS TRACK							
ING ARRANGEME			LIC OPEN SPACE							
		3 ROAD	D RESERVE NATURE STRIP							
R OR COLLECTION	N PIT									
T CONNECTION						$\vdash$				
IGED. IT SHOULD NG: R AND DISTANCE D ITS GRADE NE>	THE STABLES TO ESTABLISH WHETHER A SHUT OFF SECTION SHOULD BE SEED. IT SHOULD ALSO BE USED TO ESTABLISH THE SCOUR OFFTAKE SIZE.									
RY ARRANGEME EDUCTION), WHICH	-		UMP AND HOSE TO	GRAVITY S	SEWER).					
DEEPER PITS, an	d					$\vdash$				
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c. BUT NOT ASS	UME RARE	-	eg: POWER OUTAG							
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UR DISCHARGES	DN100 PIF		NLY RISES OR FALL DUCTOR DIRECT COM		UR DISCHARGES					
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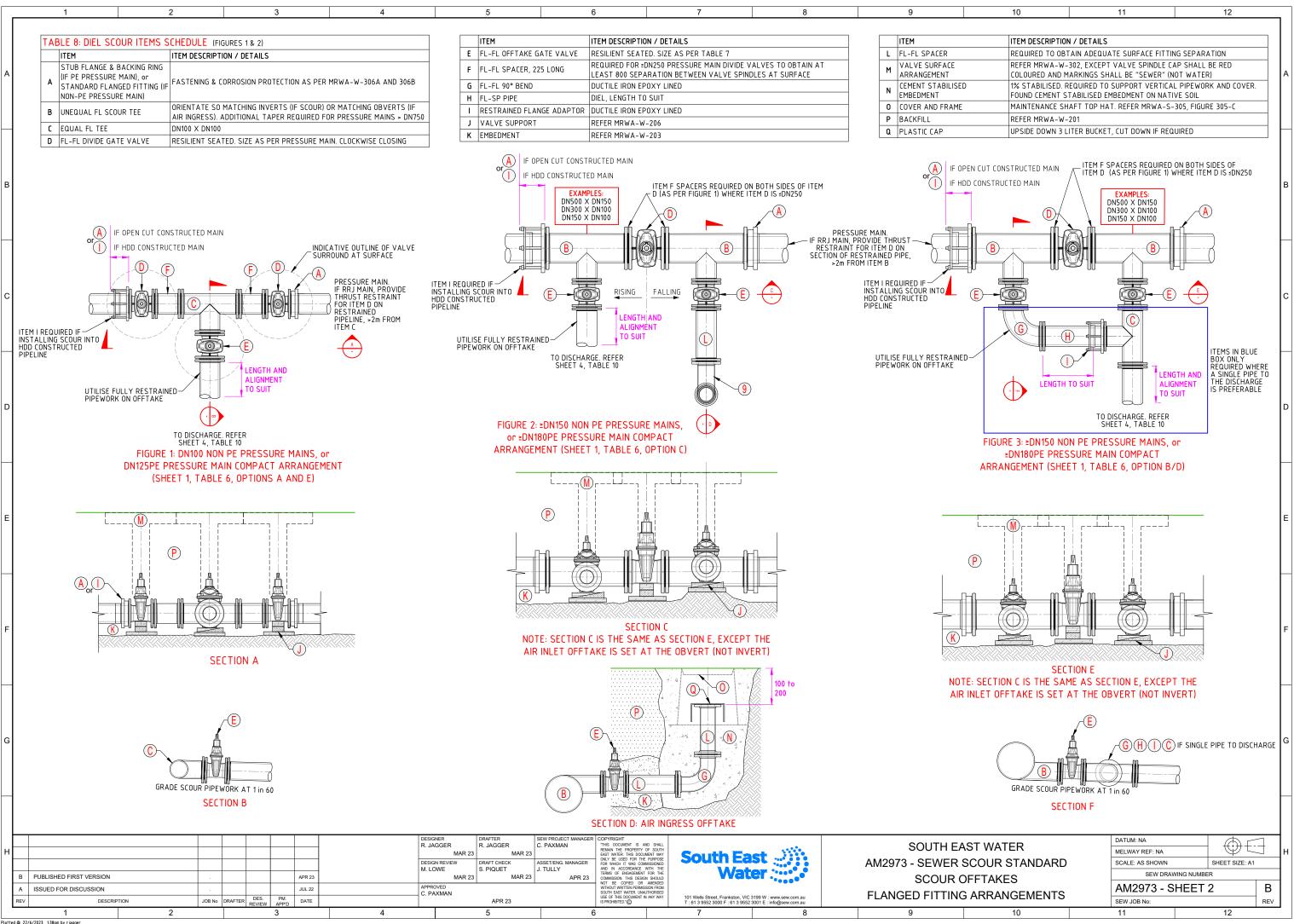
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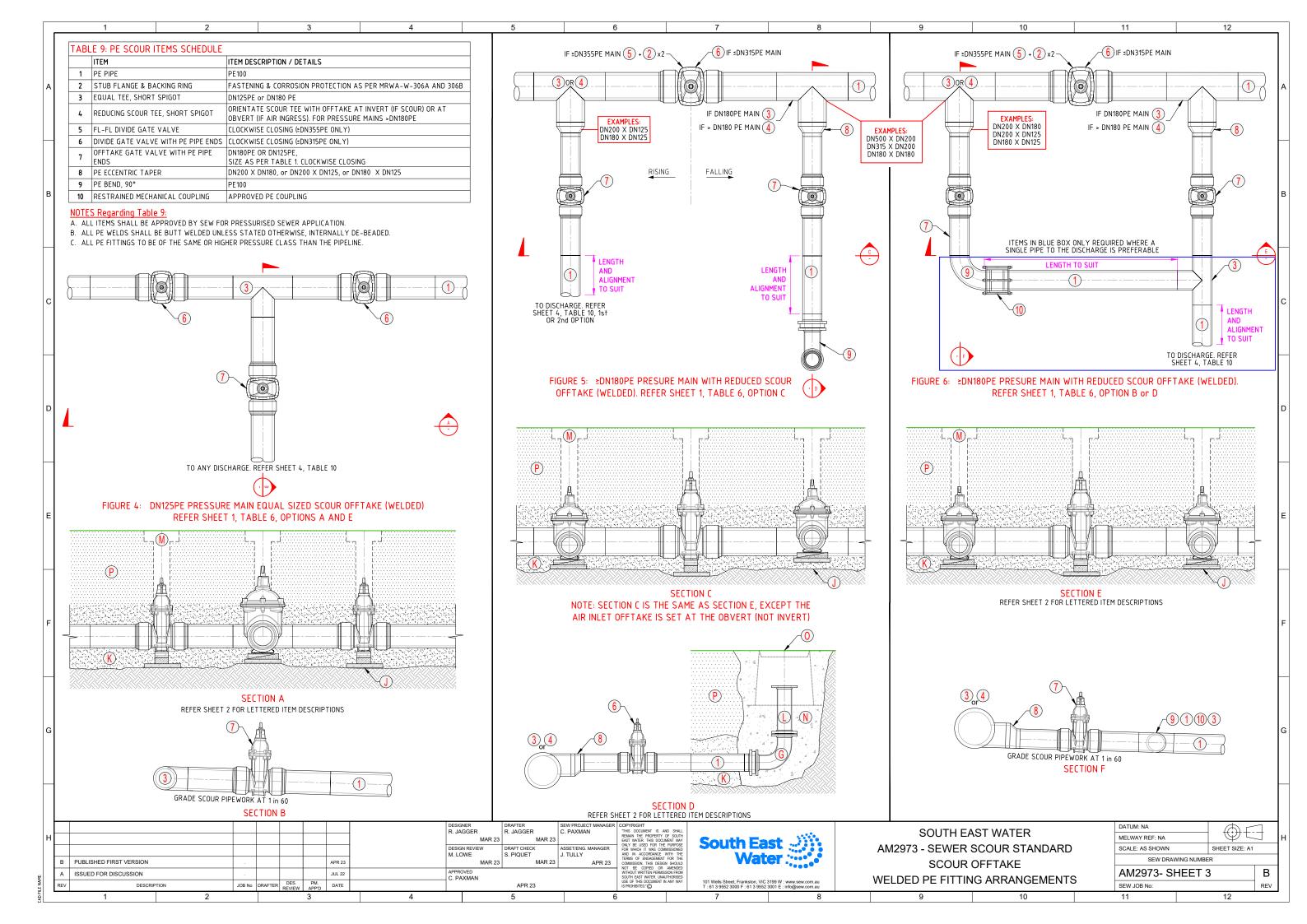
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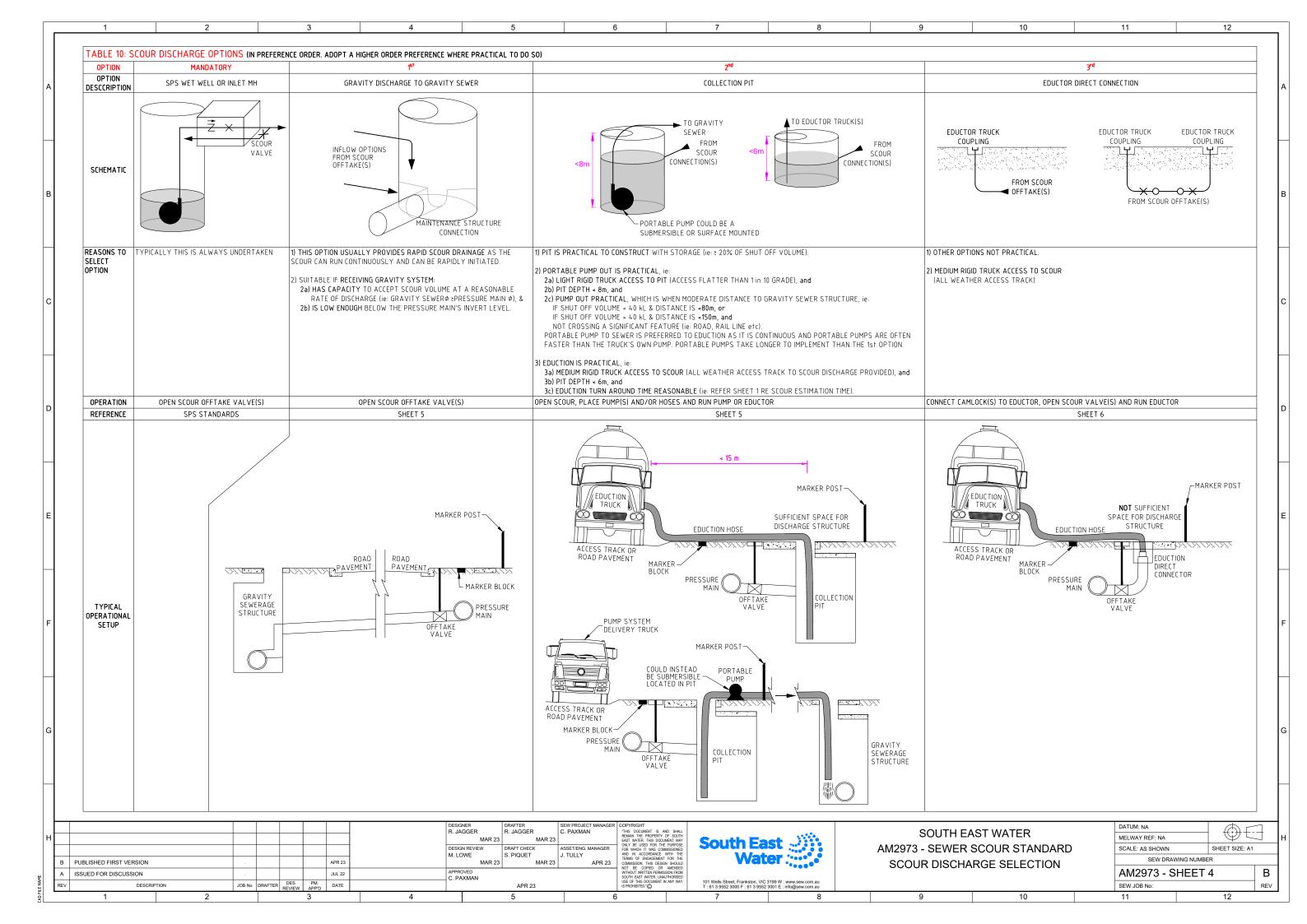
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	1 2 3 4	5 6 7 8 9
	GRAVITY SEWER DISCHARGE	
B	FOR CONNECTION OF SCOUR OFFTAKE TO A GRAVITY SEWERAGE STRUCTURE, REFER MRWA-S-317, TABLES 317-D TO 317-E. CONSIDER THE SCOUR OFFTAKE AS A PRESSURE MAIN. BASE CONNECTION TO SE MAINTENANCE STRUCTU	Shiri i Connection to Sewen
	COLLECTION PIT DISCHARGE	
	COLLECTION PIT REQUIREMENTS:	EXTEND COLLECTION PIT BASE SLAB TO SUPPORT OFFTAKE VALVES AND TEES TO MITIGATE DIFFERENTIAL SETTLEMENT RISK
c	COLLECTION PITS MAY BE ONE OF:	
	<ul> <li>CIRCULAR STRUCTURES BASED ON MADE TO ORDER MH STANDARDS (REFER NOTES a to i BELOW), OR</li> <li>RECTANGULAR STRUCTURES DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS 3735 CONCRETE STRUCTURES FOR RETAINING LIQUIDS.</li> <li>CIRCULAR COLLECTION PITS SHALL BE MADE TO ORDER AND DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE SEW GRAVITY SEWERAGE STANDARDS LISTED IN TABLE 14, WITH THE FOLLOWING EXCEPTIONS AND SPECIFIC REQUIREMENTS:</li> </ul>	PUDDLE FLANGE ON FL-FL DIEL SPOOL PIECE BENCHING.
	<ul> <li>a. PROVIDE ALL THE INFORMATION DESIGNATED IN SCHEDULE 6 OF MRWA-S-100.</li> <li>b. RATHER THAN CHANNELS IN THE BASE (AS DESCRIBED IN MRWA-S-310), COLLECTION PITS SHALL HAVE A SUMP AS DESCRIBED IN FIGURE 8 OR 9.</li> <li>c. CONCRETE COLLECTION PITS DO NOT REQUIRE CORROSION PROTECTION.</li> </ul>	LADDER COVER OPENING OUTLINES
	<ul> <li>all collection PITS BASED on concerte training invention and in the stell reinforced in accordance with mrwa-s-307, table 307-A.</li> <li>all collection PITS BASED on MADE TO ORDER MHs (ie: GRP / CONCRETE) SHALL BE DESIGNED IN ACCORDANCE WITH TABLE 308-A, WITH ITEMS A TO N NEEDING TO BE INCLUDED.</li> </ul>	UDITINES ID= 750 WHERE THE COLLECTION PIT IS BEST LOCATED DIRECTLY AT THE SCOUR OFFTAKE(S),
	ITEMS 0 TO Z RELATE TO PIPEWORK ITEMS WHICH ARE IRRELEVANT FOR A COLLECTION PIT. f. SCOUR INFLOW PIPES CONNECTING TO MH SHAFTS SHALL CONNECT AS PER FIGURES 310-D (IF DWV) OR FIGURE 310-F (IF PE), NOT AS PER MRWA-S-311, ie: FLOWS SHALL FREE DROP FROM THE SCOUR INFLOW INTO THE COLLECTION PIT. g. COLLECTION PIT COVERS OVER THE SUMP SHALL BE 750 DIAMETER ROUND OR 750 X 750 SQUARE COVERS.	LOCATE THE OFFTAKE VALVE(S) IN THE PIT. PROVIDE THE FOLLOWING: a. COMPACT OFFTAKE ARRANGEMENTS IN ACCORDANCE WITH SHEET 2. b. A LADDER TO THE BENCHING LEVEL (TOP OF SUMP) IN ACCORDANCE WITH AM2922. c. AT LEAST 300 CLEARANCE BETWEEN BOTTOM OF VALVES AND THE BENCHING. d. AT LEAST 150 CLEARANCE BETWEEN THE VALVE FLANGES AND PIT WALL.
	<ul> <li>h. PROVIDE A REMOVABLE FALL PROTECTION GRATING (100 X 100 SPACING BETWEEN BARS) UNDER ALL COVERS.</li> <li>i. CONCRETE MH COLLECTION PIT SUMPS SHALL BE CONSTRUCTED USING THE INTERNAL FORMWORK OF STANDARD</li> </ul>	FIGURE 7: INCORPORATION OF OFFTAKE VALVE(S) IN COLLECTION PITS
E	CONICAL TOPS, INVERTED TO CREATE A SUMP WHICH IS 600 IN DIAMETER AT THE BOTTOM OF THE CONE. j. NO LANDINGS ARE REQUIRED AND A LADDER IS ONLY REQUIRED WHEN A VALVE IS LOCATED IN THE PIT. DETERMINING COLLECTION PIT LOCATION AND CIRCULAR GEOMETRY:	ID= 750 ID= 750 ID= 750 ID= 600 ID= 750 ID= 75
	COLLECTION PIT LOCATION, DEPTH AND DIAMETER SHALL BE DETERMINED USING THE FOLLOWING PROCESS: 1. DETERMINE THE PREFERRED COLLECTION PIT LOCATION IN CONSIDERATION OF: 1.1. MINIMISING DEPTH BETWEEN ANY TRUCK STANDING LEVEL AND THE BOTTOM OF COLLECTION PIT LEVEL. THIS IS REQUIRED TO ENSURE REASONABLE EDUCTION AND SURFACE MOUNTED PUMP EFFECTIVENESS. 1.2. THE ABILITY FOR TWO MEDIUM RIGID TRUCKS TO TRANSIT TO AND FROM THE SCOUR INDEPENDENTLY	PIT TOP: REFER MRWA-S-313 and 313B
F	WITHOUT INTERFERING WITH EACH OTHER, IN ALL WEATHER CONDITIONS. 1.3. KEEPING THE DISTANCE BETWEEN THE SCOUR OFFTAKES AND COLLECTION PIT TO A MODERATE DISTANCE. 2. DETERMINE THE DIAMETER AND DEPTH OF COLLECTION PITS IN CONSIDERATION OF:	PIT SHAFT: REFER MRWA-S-307, TABLE 307-A PI
	2.1. THE STORAGE VOLUME REQUIRED. STORAGE IS REQUIRED TO ENABLE THE MAIN TO CONTINUE BEING SCOURED EVEN WHEN AN EDUCTION TRUCK IS IN TRANSIT. STORAGE VOLUME IS THE VOLUME OF THE COLLECTION PIT BELOW THE MAXIMUM PIT STORAGE LEVEL. STORAGE SHALL BE AT LEAST: A) 2m <sup>3</sup> OR 10% (WHICHEVER IS GREATER) OF SHUT OFF SECTION VOLUME	PIT DEPTH < 6m WHERE PRACTICAL AND < 8m STORAGE VOLUME SCOUR INFLOW:
	WHERE EDUCTOR TURNAROUND TIME IS SHORT OR MULTIPLE TRUCK USE IS AVAILABLE, or B) 4m <sup>3</sup> OR 20% OF THE SHUT OFF SECTION VOLUME WHERE EDUCTOR TURN AROUND TIME IS LONG AND MULTIPLE TRUCK USE IS PROBLEMATIC. 2.2. THE AVAILABLE FOOTPRINT FOR THE COLLECTION PIT. SPACE CONSTRAINED COLLECTION PITS MAY NEED TO BE SMALLER IN DIAMETER AND DEEPER	ADDATES OF THE STAND A

SPACE CONSTRAINED COLLECTION PITS MAY NEED TO BE SMALLER IN DIAMETER AND DEEPER. WHERE THERE IS NO LIMITATION ON COLLECTION PIT FOOTPRINT, SELECT THE MAXIMUM REASONABLE DIAMETER (i: BASED ON LARGEST FORMWORK AVAILABLE) TO MINIMISE STORAGE DEPTH AND THEREFORE MINIMISE THE NEGATIVE SUCTION PRESSURE WHICH LIMITS THE EFFECTIVENESS OF EDUCTION AND ABOVE GROUND PUMPING.

2.3. DETERMINE THE DEPTH OF STORAGE REQUIRED AT THE SELECTED DIAMETER TO OBTAIN THE STORAGE VOLUME REQUIRED.

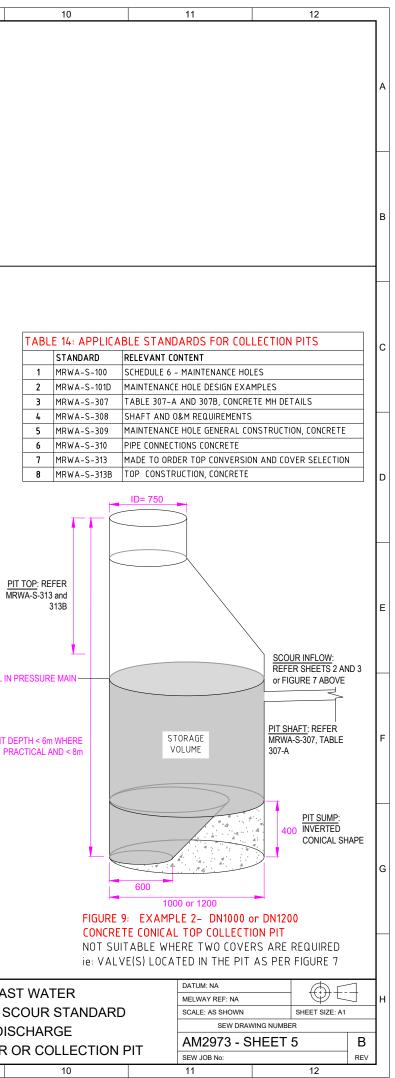
WHERE DEPTH IS CONSTRAINED (DUE TO POOR GROUND / CLASH OR SERVICES AT DEPTH), CONSIDER RELOCATING THE COLLECTION PIT TO ENABLE COLLECTION PIT DIAMETER OR DEPTH TO BE INCREASED. 2.4. PIT DEPTHS <6m ARE PREFERRED. MAXIMUM PIT DEPTH IS 8m. FIGURE 8: EXAMPLE 1- FLAT TOP COLLECTION PIT USE IF EITHER: (i) NO VALVE(S) IN PIT AND A ≥DN1500 STRUCTURE IS REQUIRED, or

≥1500

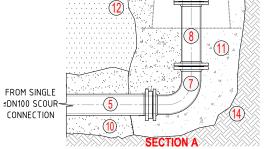
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(ii) VALVE(S) ARE LOCATED IN THE PIT

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TABLE 15: SCOUR EDUCTOR DIRECT CONNECTION ARRANGEMENTS									
SCOUR OFFTAKE ARRANGEMENT	SCOUR OFFTAKE NUMBER TANKER DISCHARGE S FIGURE CONNECTION(S) REQUIRED FIGURE								
1 X ≤DN90PE	REFER PSS STANDARDS								
1 X DN100	FIGURES 1 OR 4	1	FIGURE 11						
2 X DN100	FIGURES 3 OR 6	2	FIGURE 12						
2 X DN150	FIGURES 3 OR 6	2	FIGURE 13						

TADLE							
TABLE	16: ITEMS SCHEDULE						
	ITEM	ITEM DESCRIPTION / DETAILS					
1	STUB FLANGE & BACKING RING OR FLANGE	FASTENING & CORROSION PROTECTION AS PER MRWA-W-306A AND 306B					
2	EQUAL TEE	SHORT SPIGOT WITH ITEM 1 IF SCOUR OFFTAKE IS DIEL					
3	CONCENTRIC REDUCER	PE100					
4	GATE VALVE WITH PE PIPE ENDS	DN125PE. CLOCKWISE CLOSING					
5	OFFTAKE PIPE	PE100 OR FLANGED DIEL					
6	VALVE SUPPORT	REFER MRWA-W-206					
7	DUCTILE IRON BEND	FL-FL FBE COATED DN100					
8	DUCTILE IRON RISER	FL-FL FBE COATED DN100. LENGTH TO SUIT					
9	FLANGE + CAMLOCK	DN100 FLANGE + DN80 FEMALE SS316 CAMLOCK AND DUSTCAP					
10	EMBEDMENT	REFER MRWA-W-203					
11	CEMENT STABALISED EMBEDMENT	1% STABILISED. REQUIRED TO SUPPORT VERTICAL PIPEWORK AND COVER. FOUND CEMENT STABILISED EMBEDMENT ON NATIVE SOIL					
12	BACKFILL	REFER MRWA-W-201					
13	VALVE SURFACE ARRANGEMENT	REFER MRWA-W-302, EXCEPT VALVE SPINDLE CAP SHALL BE RED COLOURED AND MARKINGS SHALL BE "SEWER" (NOT WATER)					
14	NATIVE SOIL	> 50 kPa BEARING CAPACITY					
15	COVER AND FRAME	MAINTENANCE SHAFT TOP HAT. REFER MRWA-S-305, FIGURE 305-C					
16	RESTRAINED MECHANICAL COUPLING (IF REQUIRED)	APPROVED PE COUPLING					

