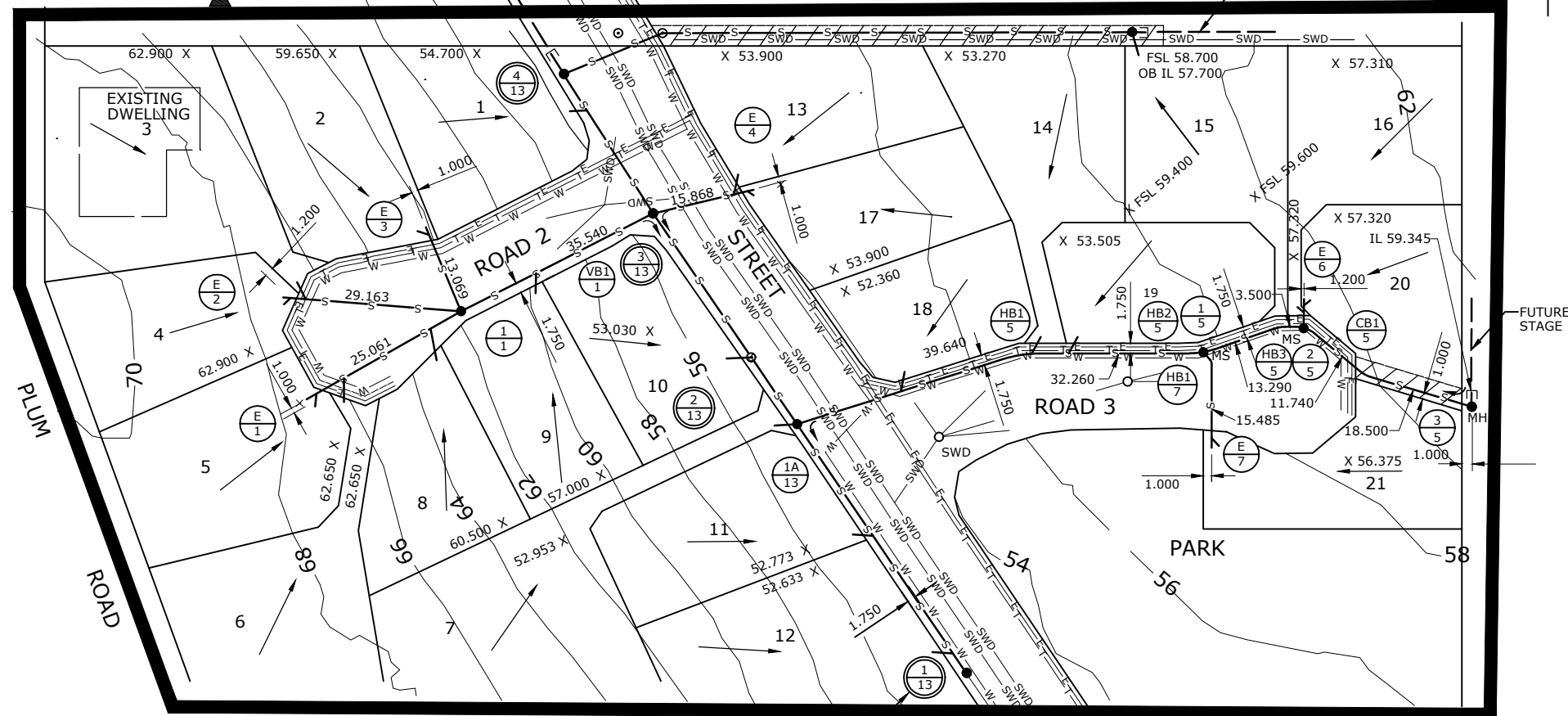


BM PSM RL 64.039 AHD

DETAIL PLAN NUMBER
(OR DRAWING NUMBER)

EXAMPLE
ONLY

FUTURE STAGE



TO BE RAISED
REFER ITEM 7
OF LIVE SEWER
WORKS SHOWN ON
SEQ-SEW-1102-1

EXISTING

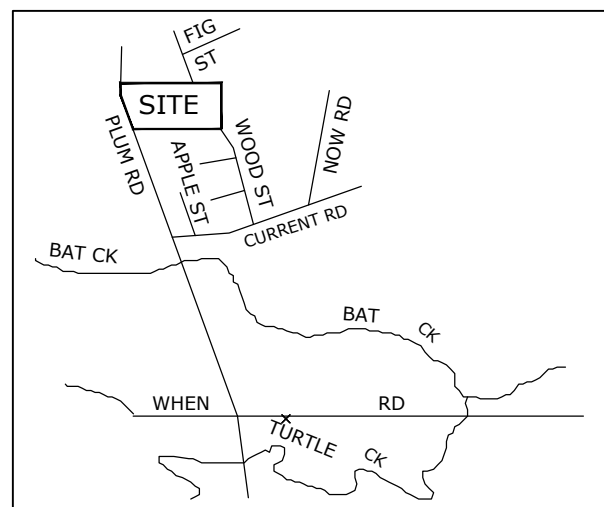
SITE PLAN

SCALE 1 : 500

EXAMPLE
ONLY

PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1:60 AND A MAXIMUM DEPTH OF PROPERTY CONNECTION AT 1.5 m. UNLESS OTHERWISE STATED. FOR JUNCTION DETAILS REFER SEQ-SEW-1106-1 TO SEQ-SEW-1106-7

SEWER DISUSED				JOB NO. W.O. 4653		NUMBER OF MH, MS, HB & VB					
LOCATION	DWG NO.	DIA.	TYPE	LENGTH	YEAR LAID	MH IN-SITU	MH PRECAST	MS	HB	VB	OTHER
PRIVATE PROP.	78/91	150	VC	71.000	1990	-	-	-	-	-	-



LOCALITY PLAN

SCALE 1:2500 MAP GRID NO. J10

REV. No.	DATE	DESCRIPTION	AUTH.

SEQ WATER SERVICE PROVIDERS

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE
OCCUPATIONAL HEALTH & SAFETY LEGISLATION

SEWERAGE STANDARD DRAWING

DESIGN LAYOUT
NUSEWERS
TYPICAL LOCALITY & SITE PLAN

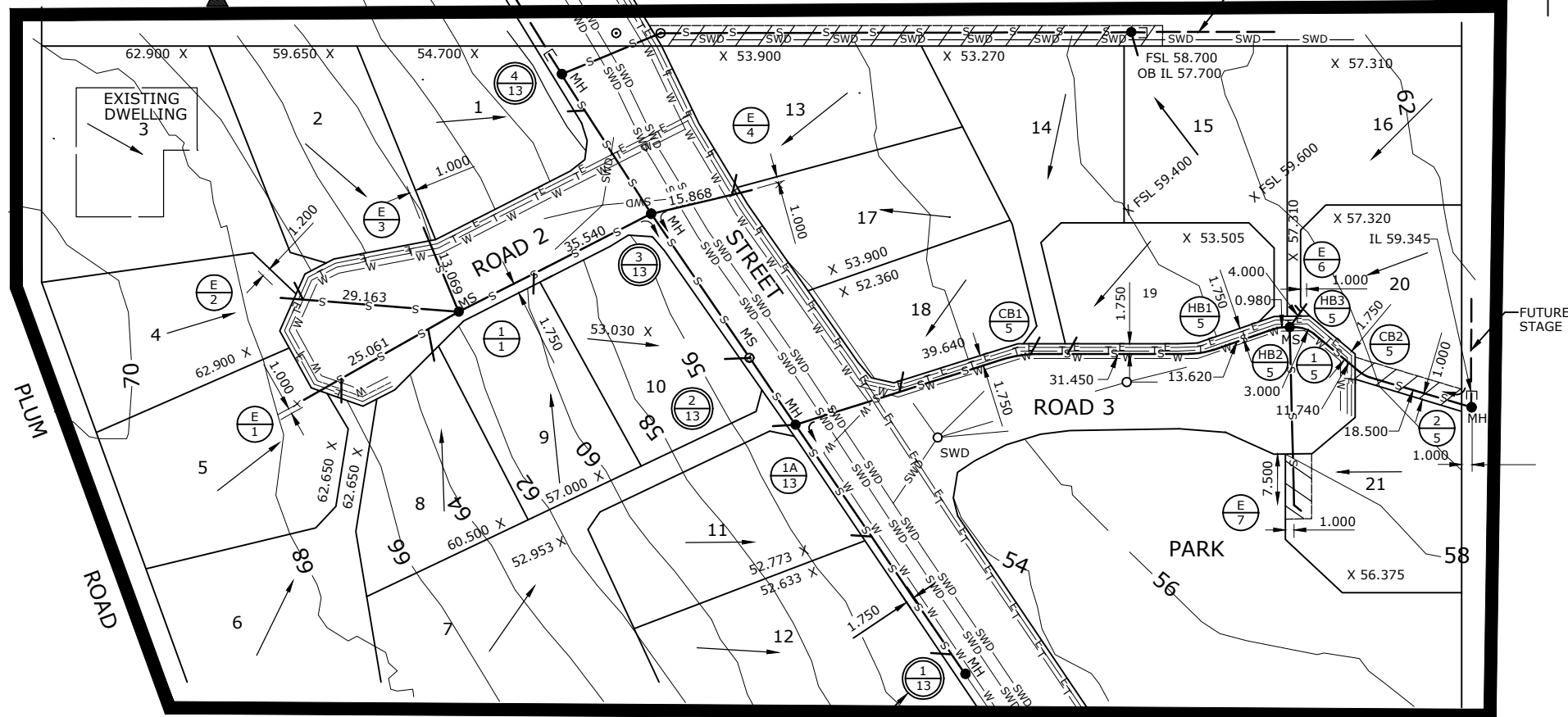
GECC	LCC	RCC	QUU	UW
DRAWING No.				VERSION
SEQ-SEW-1100-1				A
NOT TO SCALE				ORG DATE: 1/1/2013

BM PSM RL 64.039 AHD

DETAIL PLAN NUMBER
(OR DRAWING NUMBER)

EXAMPLE
ONLY

FUTURE STAGE



TO BE RAISED
REFER ITEM 7
OF LIVE SEWER
WORKS
SEQ-SEW-1102-1

EXISTING

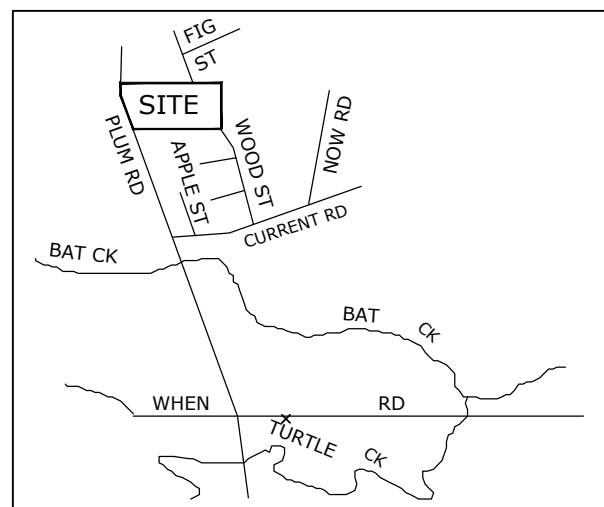
SITE PLAN

SCALE 1 : 500

EXAMPLE
ONLY

PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1:60 AND A MAXIMUM DEPTH OF PROPERTY CONNECTION AT 1.5 m. UNLESS OTHERWISE STATED. FOR JUNCTION DETAILS REFER SEQ-SEW-1104-1 AND SEQ-SEW-1105-1.

SEWER DISUSED				JOB NO. W.O. 4653		NUMBER OF MH, MS, HB & VB					
LOCATION	DWG NO.	DIA.	TYPE	LENGTH	YEAR LAID	MH IN-SITU	MH PRECAST	MS	HB	VB	OTHER
PRIVATE PROP.	78/91	150	PVC	71.000	1990	-	-	-	-	-	-



LOCALITY PLAN

SCALE 1:2500 MAP GRID NO. J10

REV. No.	DATE	DESCRIPTION	AUTH.

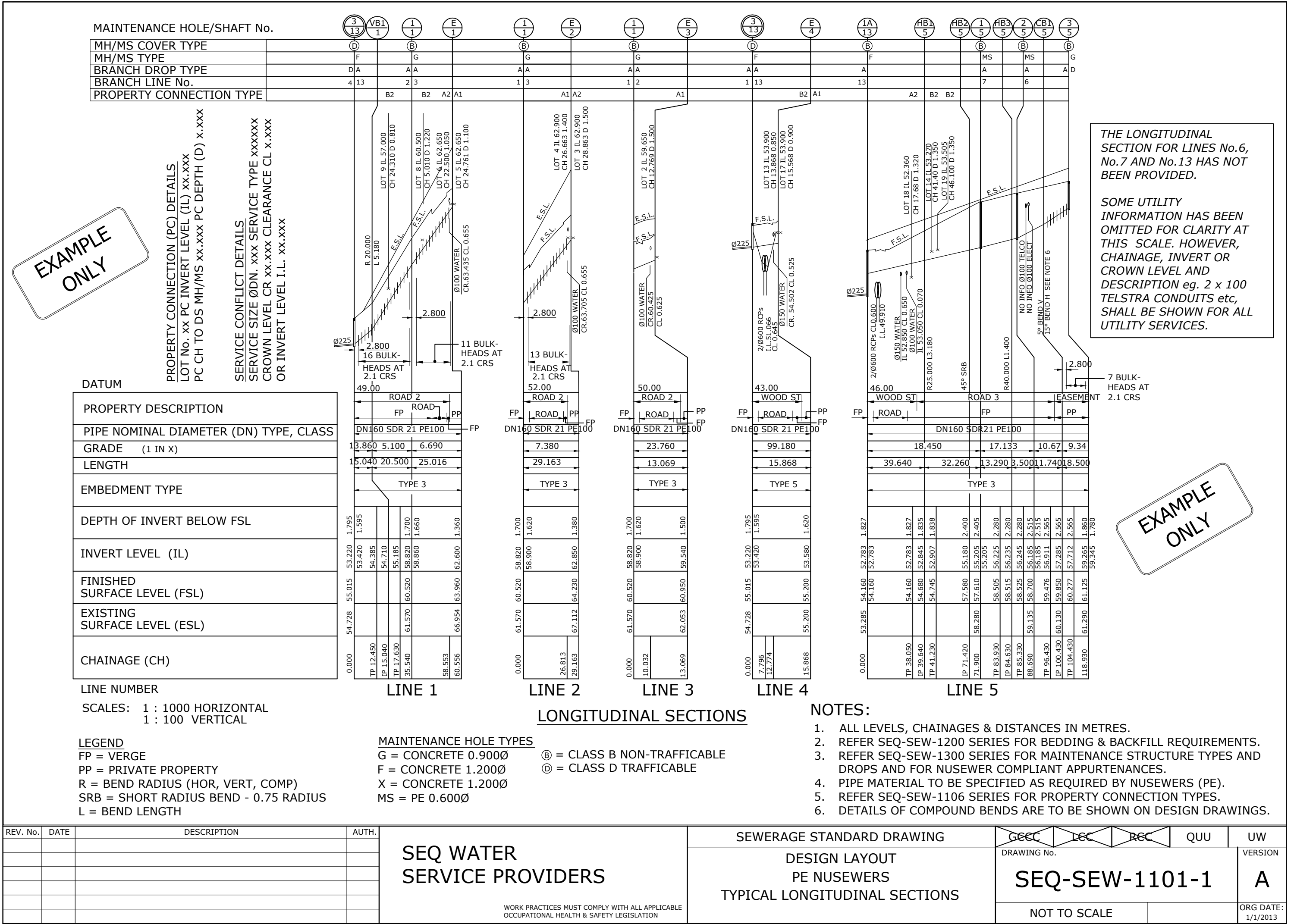
SEQ WATER
SERVICE PROVIDERS

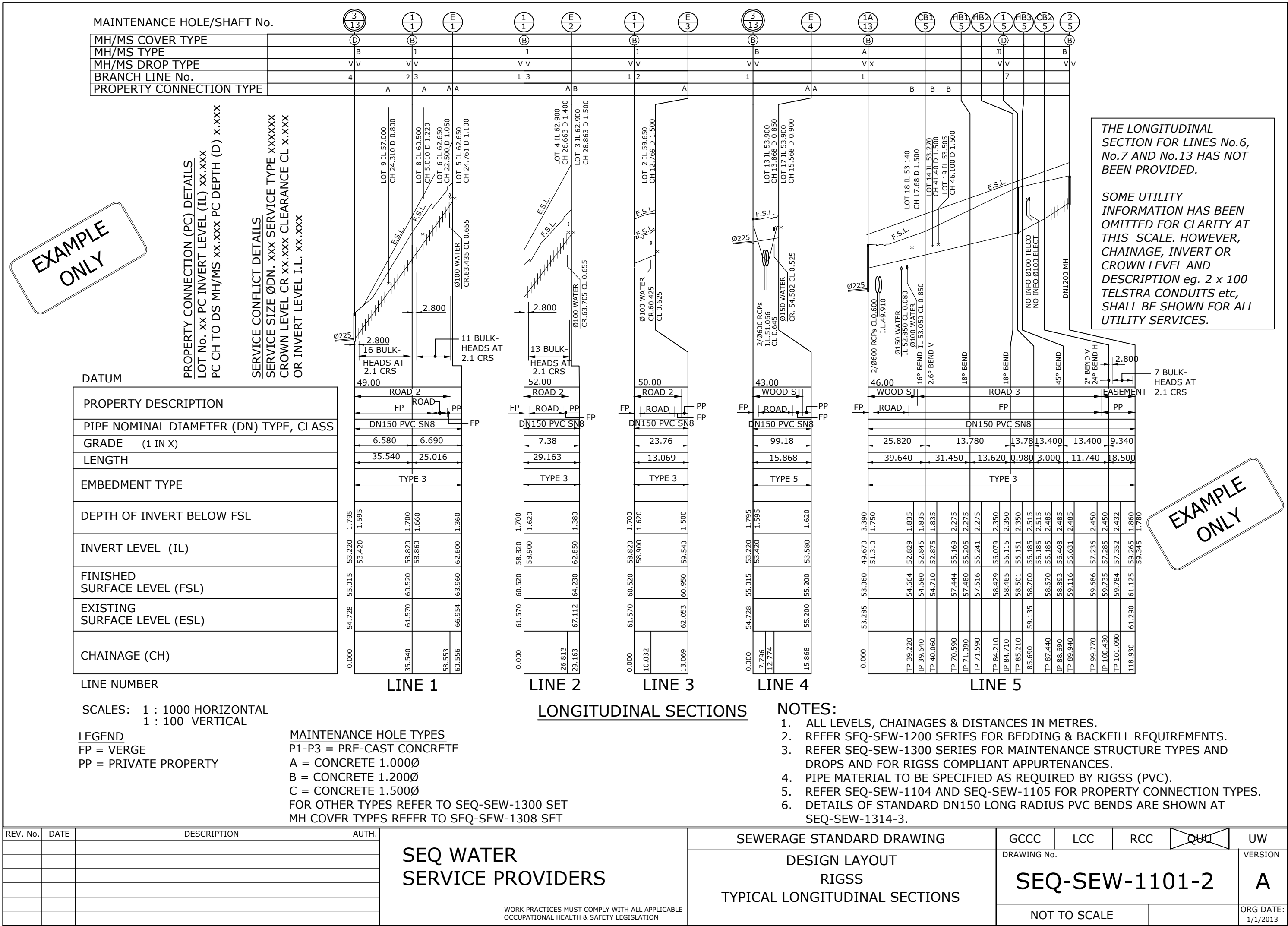
WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE
OCCUPATIONAL HEALTH & SAFETY LEGISLATION

SEWERAGE STANDARD DRAWING

DESIGN LAYOUT
RIGSS
TYPICAL LOCALITY & SITE PLAN

GCCC	LCC	RCC	QUU	UW
DRAWING No.				VERSION
SEQ-SEW-1100-2				A
NOT TO SCALE				ORG DATE: 1/1/2013





TYPICAL NOTES TO BE INCLUDED WITH DRAWING SET

ENVIRONMENTAL CONDITIONS

PLACE ON YOUR DRAWING NOTES AS RECEIVED IN YOUR APPROVAL LETTER FROM THE ENVIRONMENTAL REGULATOR OR MANAGER. IF NOTES RELEVANT TO THIS ESTATE ARE NOT SPECIFIED IN YOUR APPROVAL LETTER, TYPICAL NOTES AS FOLLOWS SHALL BE PLACED ON ALL DRAWINGS.

VEGETATION PROTECTION

- TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
- TREE ROOTS SHALL BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
- ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

- TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
- CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.
- ACID SULPHATE SOILS EXIST IN THE WORKS AREA. THE OUTPUTS FROM THE RISK ASSESSMENT BASED ON THE QUEENSLAND ACID SULPHATE SOIL TECHNICAL MANUAL REQUIRES THAT ACID SULPHATE SOILS BE MANAGED AS FOLLOWS: (DELETE IF NO ACID SULPHATE SOILS)

CREEK CROSSINGS

- SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
- APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
- NO SOIL SHALL BE STOCKPILED WITHIN 5m OF THE CREEK.

REHABILITATION

- PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

SAFETY

- THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION.

ALL ENVIRONMENT PROTECTION MEASURES SHOULD BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING, COMMENCING.

GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE SPECIFICATIONS AND STANDARDS.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- THE CONSTRUCTION OF THE SEWERAGE WORK SHOWN ON THIS DRAWING SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO THE SEQ SERVICE PROVIDER SEWERAGE SYSTEM.
- ALL WORK ASSOCIATED WITH LIVE SEWERS OR MAINTENANCE HOLES SHALL BE CARRIED OUT BY THE SEQ SERVICE PROVIDER AT THE DEVELOPER'S COST.
- ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST.
- EACH ALLOTMENT SHALL BE SERVED BY A DN110 PE (OR DN100 PVC) PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN160 PE (OR DN150 PVC) PROPERTY CONNECTION SHALL BE PROVIDED.
- PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS.
- PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300mm AND A MAXIMUM OF 750mm. UNITYWATER REQUIRES MINIMUM EXTENSION OF 500mm INTO PROPERTY.
- WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300mm (LOOSE) IN DEPTH AND SHALL BE COMPACTED UNTIL THE COMPACTION IS NOT LESS THAN 95% OF THE MATERIALS MAXIMUM COMPACTION WHEN TESTED IN ACCORDANCE WITH A.S. 1289 (MODIFIED COMPACTION). TESTING SHALL BE CARRIED OUT AFTER EACH ALTERNATE LAYER. IN ALL SUCH CASES APPROVAL OF CONSTRUCTED SEWERS WILL NOT BE ISSUED BY THE SEQ SERVICE PROVIDER UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
- WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER,BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SEQ SEWER CODE.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS.
- SEWERS SHALL BE DISUSED /ABANDONED IN ACCORDANCE WITH PROCEDURES SET OUT IN THE SEQ SEWER CODE.
- BENCH MARK AND LEVELS TO AHD.
- THE EXISTING DWELLING ON LOT 3, REFER SEQ-SEW-1100, SERVED BY A SEPTIC SYSTEM, SHALL BE CONNECTED TO THE NEW SEWER BY A LICENCED PLUMBER IN ACCORDANCE WITH THE RELEVANT STATUTORY AND COUNCIL REQUIREMENTS. THE SEPTIC SYSTEM, INCLUDING TRENCHES,SHALL BE REMOVED AT THE DEVELOPER'S COST. ALL FIXTURES SHALL BE UPGRADED IF REQUIRED BY PLUMBING CODE.
- EXISTING ALLOTMENTS REQUIRING A PROPERTY CONNECTION FROM EXISTING SEWERS SHALL BE PROVIDED BY THE SEQ SERVICE PROVIDER AT THE DEVELOPERS COST.

NAME OF ESTATE		SUNRISE ESTATE
SUBDIVIDER		JOPET PTY LTD
APPLICATION No.		253/50/5-CA20/95
SP DELEGATE APPROVAL DATE		7.12.94
DRAWING/PLAN No.		
No. OF ALLOTMENTS		26
AREA IN Ha.		2.828
LENGTH OF SEWERS	100mm	40.000
	150mm	327.100

REV. No.	DATE	DESCRIPTION	AUTH.	SEQ WATER SERVICE PROVIDERS <div>WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION</div>	SEWERAGE STANDARD DRAWING		GCCC	LCC	RCC	QUU	UW
					SEWERAGE RETICULATION TYPICAL ESTATE DETAILS AND NOTES		DRAWING No.				VERSION
							SEQ-SEW-1101-3				A
							NOT TO SCALE				ORG DATE: 1/1/2013

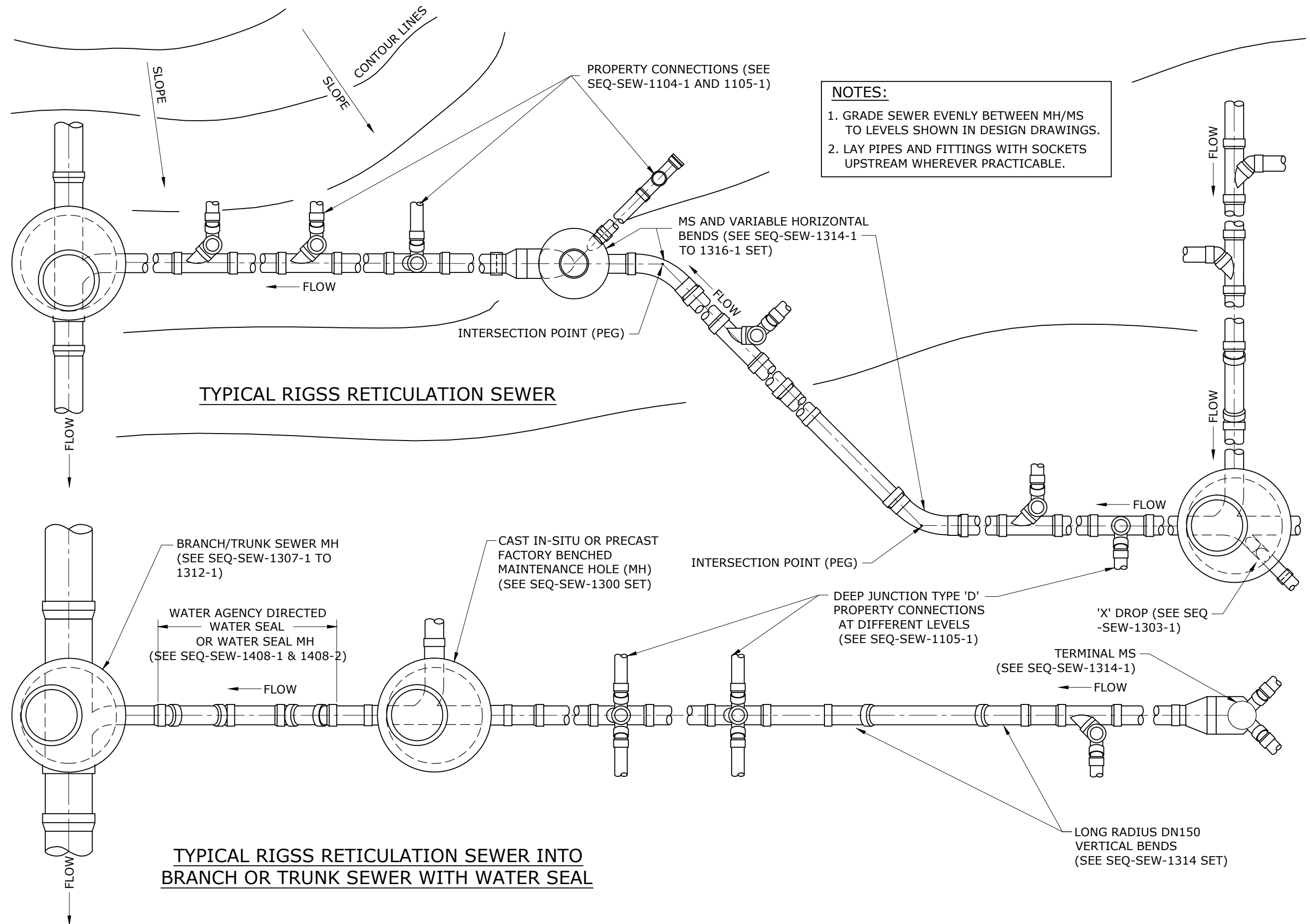
SERVICE PROVIDER AND CONSTRUCTOR LIVE SEWER WORKS - TYPICAL SCHEDULE

No.	DESCRIPTION (SOME WORKS LISTED ARE NOT SHOWN ON SEQ-SEW-1100-1 & 1100-2)	DIA. SEWER	MH NO.	MH/MS TYPE	COVER TYPE	LOT NO.	F.S.L.	E.S.L.	I.L.	DEPTH TO INVERT
1(A)	AGENCY [*] TO BREAK INTO EXISTING MAINTENANCE HOLE 5/1 AND CONSTRUCT A 150 mm STUB (TEMPORARILY END CAPPED) PRIOR TO START OF CONSTRUCTION.	150	1/1	P2	Ⓑ		61.227	61.227	59.530	1.697
1(B)	0.5m FROM STUB END CAP, CONSTRUCTOR TO LAY NEW LINE 5. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.									
1(C)	AGENCY TO REMOVE TEMPORARY END CAPS ON STUB & LINE 5 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
2(A)	AGENCY TO BREAK INTO EXISTING MAINTENANCE HOLE 3/13 AND CONSTRUCT 2/150 mm STUBS (TEMPORARILY END CAPPED) PRIOR TO START OF CONSTRUCTION.	225	3/13	P2	△		55.015	54.728	53.220	1.795
2(B)	CONSTRUCTOR TO LAY NEW LINES 1 AND 4. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150 150	3/13 3/13	P2 P2	(LINE 1) (LINE 4) (NEW STUBS)		55.015 55.015	54.728 54.728	53.420 53.420	1.595 1.595
2(C)	AGENCY TO REMOVE TEMPORARY END CAPS ON STUBS & LINES 1 & 4 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
2(D)	AGENCY TO RAISE EXISTING MAINTENANCE HOLE 3/13 BY 0.287 m AND TO REPLACE TOP SLAB, COVER AND FRAME WITH A TRAFFICABLE ARRANGEMENT.	225	3/13	P2	Ⓓ		55.015	54.728	53.220	1.795
3(A)	CONSTRUCTOR TO CONSTRUCT NEW MAINTENANCE HOLE 1A/13 OVER EXISTING SEWER AND BENCH AND RENDER UP TO PIPE BUT NOT REMOVE CROWN OF PIPE.	225	1A/13	P2	Ⓑ		54.580	54.580	53.028	1.552
3(B)	CONSTRUCTOR TO LAY LINE 5 AND INSTALL HOUSE CONNECTIONS.	150 100 100	1A/13	P2	Ⓑ	7 11	54.580 54.580 54.580	54.580 54.580 54.580	53.230 53.600 53.600	1.350 0.980 0.980
3(C)	AGENCY TO REMOVE CROWN OF PIPE AND COMPLETE BENCHING AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION OF LINE 5.									
4(A)	AGENCY TO BREAK INTO EXISTING MAINTENANCE HOLE 2 AND CONSTRUCT 2/150 mm STUBS (TEMPORARILY END CAPPED) PRIOR TO START OF CONSTRUCTION.	150	2	C2	Ⓑ		58.913	58.913	57.293	1.620
4(B)	CONSTRUCTOR TO LAY NEW LINE 8 AND 9. AFTER CLEANSING AND TESTING, NOTIFY AGENCY.	150 150	2 2	C2 C2	(LINE 8) (LINE 9)		58.913 58.913	58.913 58.913	57.493 57.493	1.420 1.420
4(C)	AGENCY TO REMOVE TEMPORARY END CAPS ON STUBS & LINES 8 & 9 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
5(A)	AGENCY TO SEAL THE EXISTING 150Ø INLET IN EXISTING MAINTENANCE HOLE 2 AND 150Ø OUTLET IN THE EXISTING MAINTENANCE HOLE 1/1 (ADJACENT TO LOT 20) TO ABANDON THIS SECTION OF SEWER AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.	150 150	2 1/1	D1 D1	Ⓑ [*] Ⓑ		58.913 61.227	58.913 61.227	57.293 59.530	1.620 1.697
5(B)	CONSTRUCTOR TO REMOVE ABANDONED SEWER AND REINSTATE GROUND.									
6	AGENCY TO PROVIDE NEW HOUSE CONNECTION.	100 100				1 12	55.750 54.250	55.750 54.250	54.450 52.950	1.300 1.300
7	AGENCY TO RAISE EXISTING MAINTENANCE HOLE 1/13 IN WOODS STREET BY 0.160 m TO SUIT NEW FOOTWAY LEVEL.	225	1/13	C2	Ⓑ		54.410	54.250	53.028	1.552

* AGENCY MEANS GOLD COAST CITY COUNCIL OR LOGAN CITY COUNCIL OR REDLAND CITY COUNCIL OR QUEENSLAND URBAN UTILITIES OR UNITYWATER (APPROVAL VALID FOR 12 MONTHS FROM DATE SHOWN) WITH ALL AGENCY WORK TO BE PAID FOR BY DEVELOPER VIA QUOTATION APPLICATION.

REV. No.	DATE	DESCRIPTION	AUTH.	SEQ WATER SERVICE PROVIDERS	SEWERAGE STANDARD DRAWING		GCCC	LCC	RCC	QUU	UW
					DESIGN LAYOUTS		DRAWING No.				VERSION
					CONNECTION TO EXISTING SEWER		SEQ-SEW-1102-1				A
					TYPICAL SCHEDULE OF WORKS		NOT TO SCALE				ORG DATE: 1/1/2013

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE
OCCUPATIONAL HEALTH & SAFETY LEGISLATION



- NOTES:**
1. GRADE SEWER EVENLY BETWEEN MH/MS TO LEVELS SHOWN IN DESIGN DRAWINGS.
 2. LAY PIPES AND FITTINGS WITH SOCKETS UPSTREAM WHEREVER PRACTICABLE.

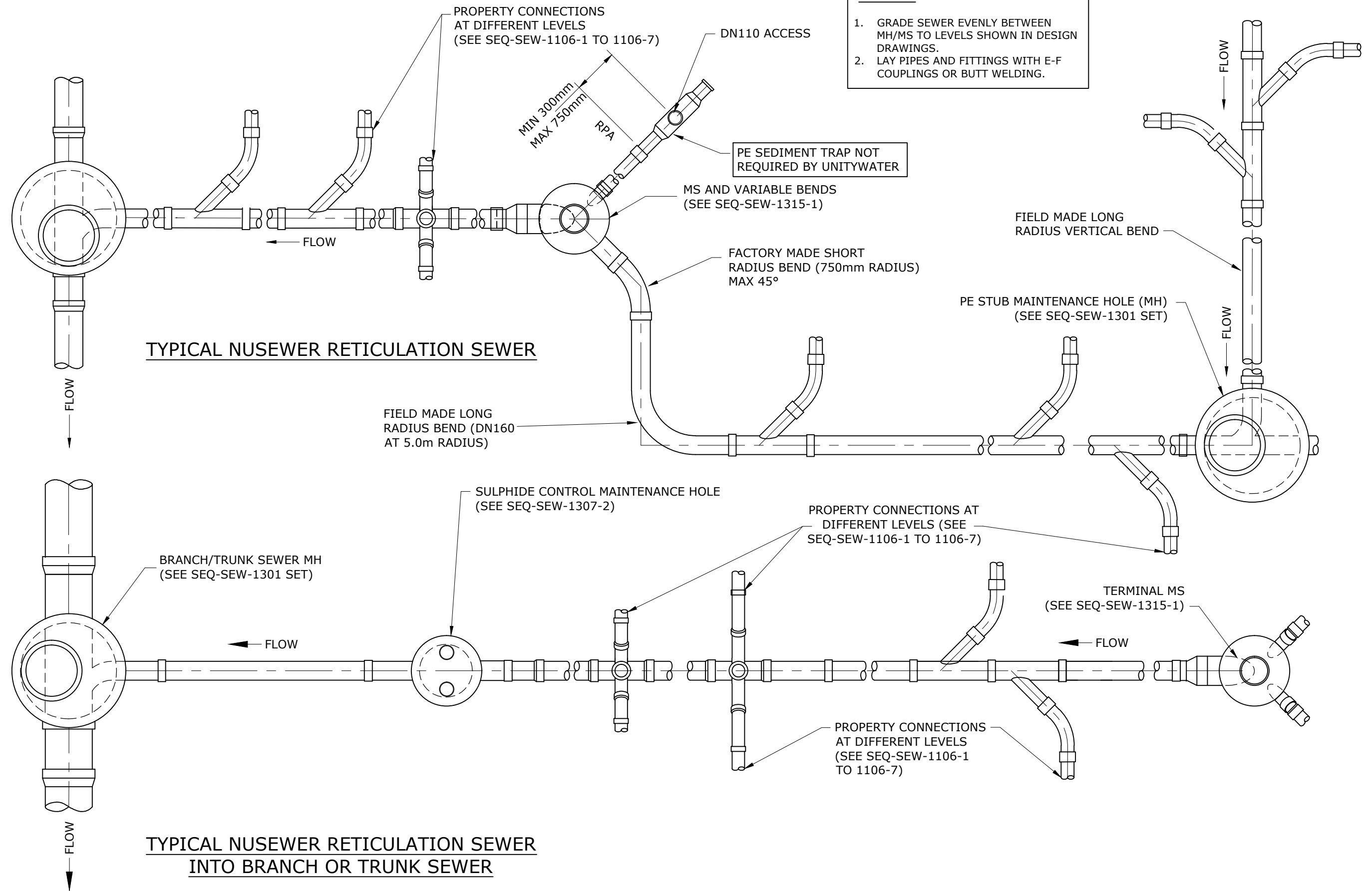
REV. No.	DATE	DESCRIPTION	AUTH.

SEQ WATER SERVICE PROVIDERS

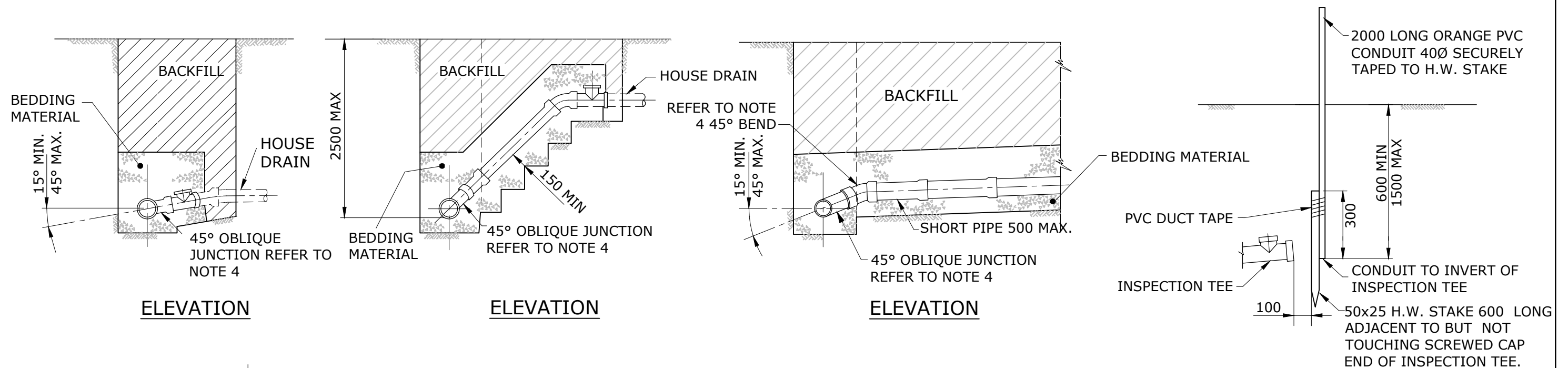
WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION

SEWERAGE STANDARD DRAWING
RIGSS PIPELAYING
TYPICAL ARRANGEMENTS

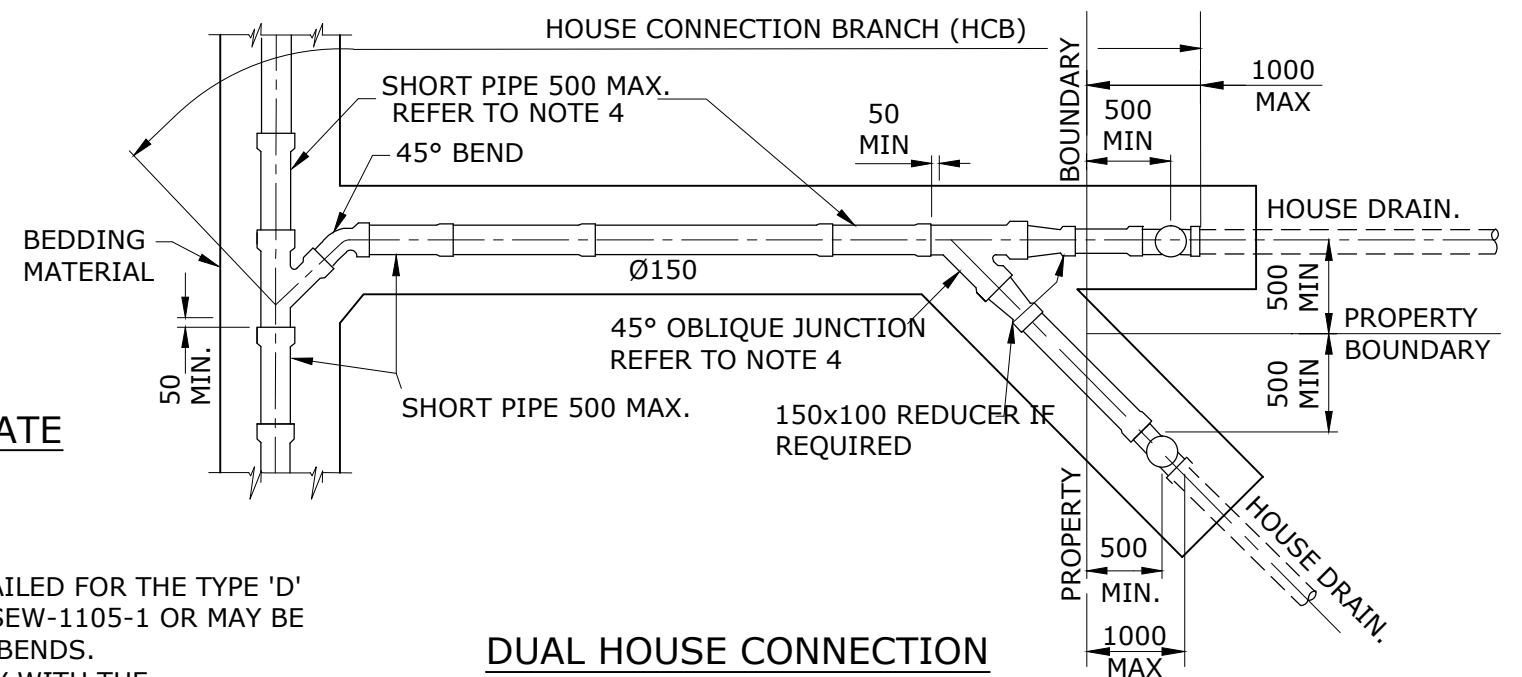
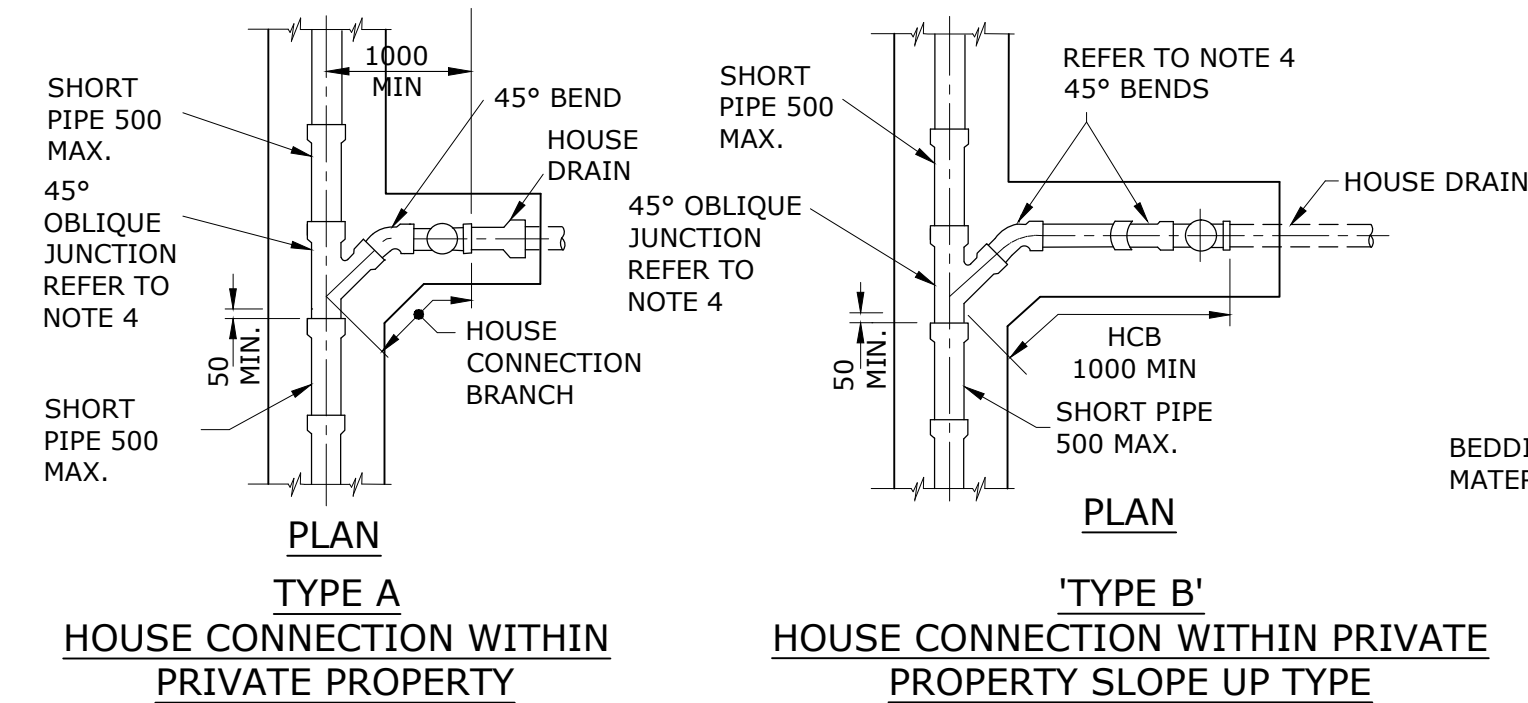
GCCC	LCC	RCC	QUU	UW
DRAWING No.				VERSION
SEQ-SEW-1103-1				A
NOT TO SCALE				ORG DATE: 1/1/2013



REV. No.	DATE	DESCRIPTION	AUTH.	SEQ WATER SERVICE PROVIDERS		SEWERAGE STANDARD DRAWING NUSEWER PIPELAYING TYPICAL ARRANGEMENTS		GECC	LCC	RCC	QUU	UW
								DRAWING No.				VERSION
				WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION				SEQ-SEW-1103-2				A
								NOT TO SCALE				ORG DATE: 1/1/2013



**HOUSE CONNECTION INSPECTION TEE
LOCATION MARKER ARRANGEMENT**



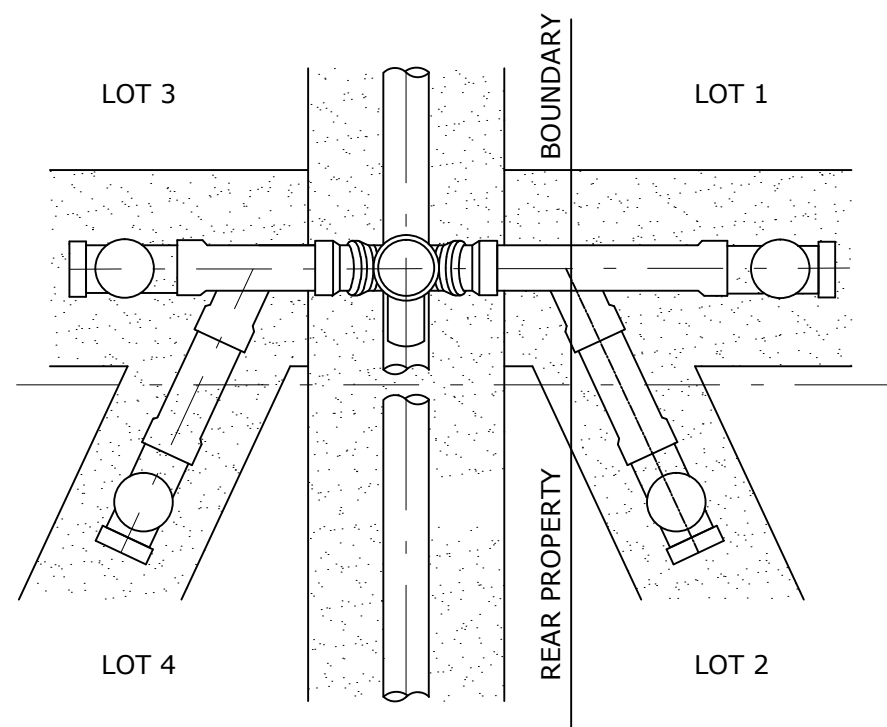
**DUAL HOUSE CONNECTION
OUTSIDE PRIVATE PROPERTY
NOT CROSSING ROAD**

NOTES:

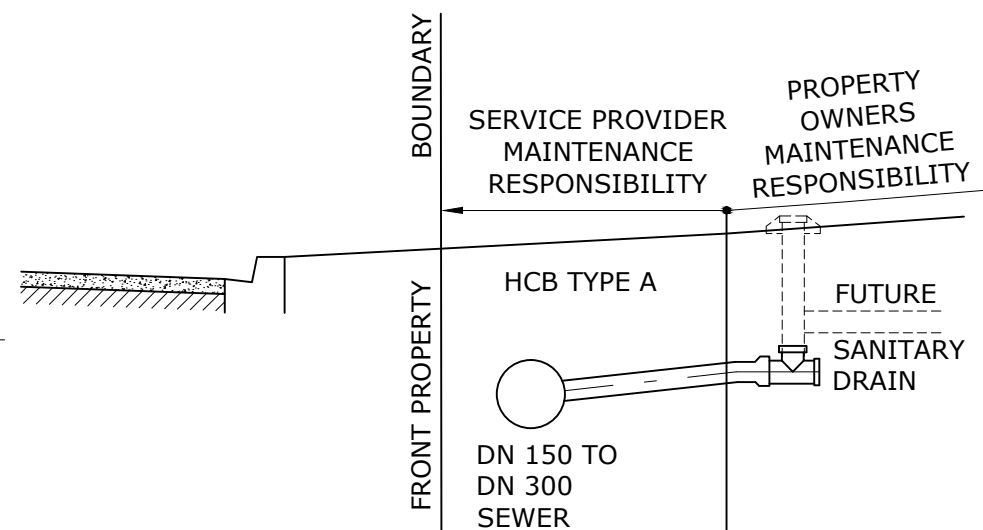
- ALL HOUSE CONNECTION BRANCHES SHALL HAVE A MINIMUM GRADE OF 1 IN 60 FOR Ø100 AND 1 IN 80 FOR Ø150.
- LIMIT OF WORKS - ALL HOUSE CONNECTION BRANCHES SHALL FINISH WITH AN INSPECTION TEE WITH THE END AND INSPECTION OPENING SCREW CAPPED. INSPECTION TEE INSTALLED TO THE INVERT LEVEL SHOWN ON THE DRAWINGS.
- ALL HOUSE CONNECTION BRANCHES CROSSING ROADS SHOULD CONNECT INTO MAINTENANCE STRUCTURE WHERE POSSIBLE.
- ALL HOUSE CONNECTION BRANCH FITTINGS SUCH AS MOULDED OBLIQUE JUNCTIONS AND BENDS, SHALL BE
- FIBREGLASS REINFORCED AS DETAILED FOR THE TYPE 'D' JUNCTION WITHIN STD DRG SEQ-SEW-1105-1 OR MAY BE APPROVED G.R.P JUNCTIONS AND BENDS.
- BEDDING MATERIAL SHALL COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION.
- ALL PIPE JOINTS SHALL CONFORM WITH CODE SPECIFICATION AND THE MANUFACTURERS RECOMMENDATIONS.
- FOR RESPONSIBILITY LIMITS OF CONSTRUCTED WORKS, REFER STD DRG SEQ-SEW-1105-1.
- DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

REV. No.	DATE	DESCRIPTION	AUTH.	SEQ WATER SERVICE PROVIDERS		SEWERAGE STANDARD DRAWING		GCCC	LCC	RCC	QUU	UW
						SEWERAGE HOUSE CONNECTION TYPICAL CONSTRUCTION DETAILS		DRAWING No.				VERSION
						RIGGS - SHEET 1		SEQ-SEW-1104-1				A
								NOT TO SCALE				ORG DATE: 1/1/2013

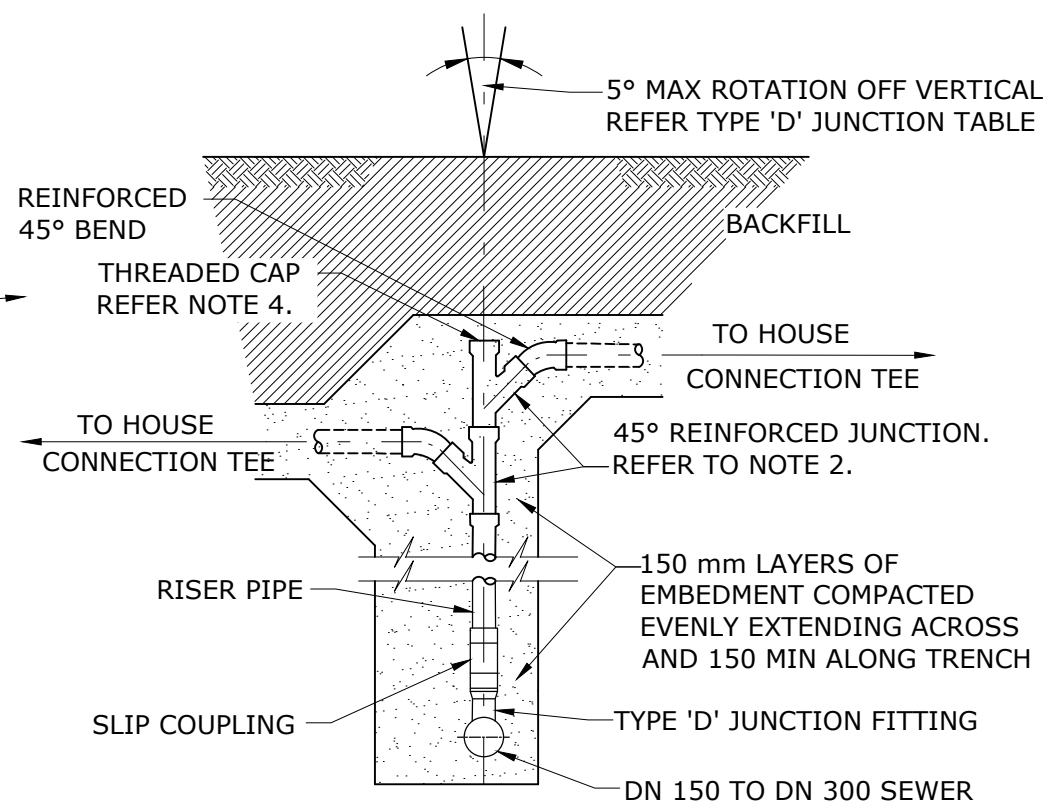
WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE
OCCUPATIONAL HEALTH & SAFETY LEGISLATION



**TYPE 'D' HOUSE
CONNECTION OPTIONS**

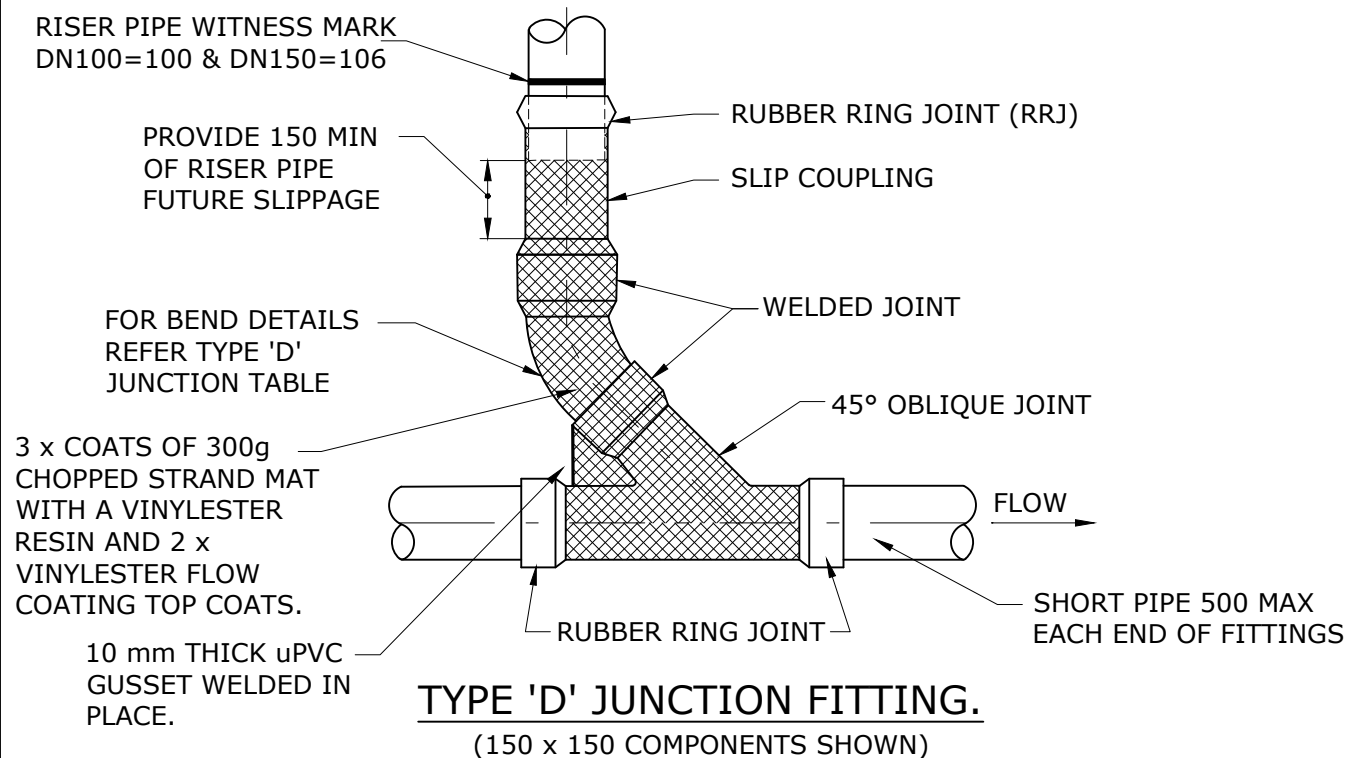


MAINTENANCE RESPONSIBILITY
(ONCE DEVELOPER INSTALLS SEWER AND
PROPERTY CONNECTION)



ELEVATION

TYPE 'D' JUNCTION TABLE		
OPTIONS	BEND	SEWER GRADE
D-1	45°	1:150 TO 1:20
D-2	40°	1:20 TO 1:10
D-3	35°	1:10 TO 1:6
D-4	AS REQUIRED	1:5 TO 1:1



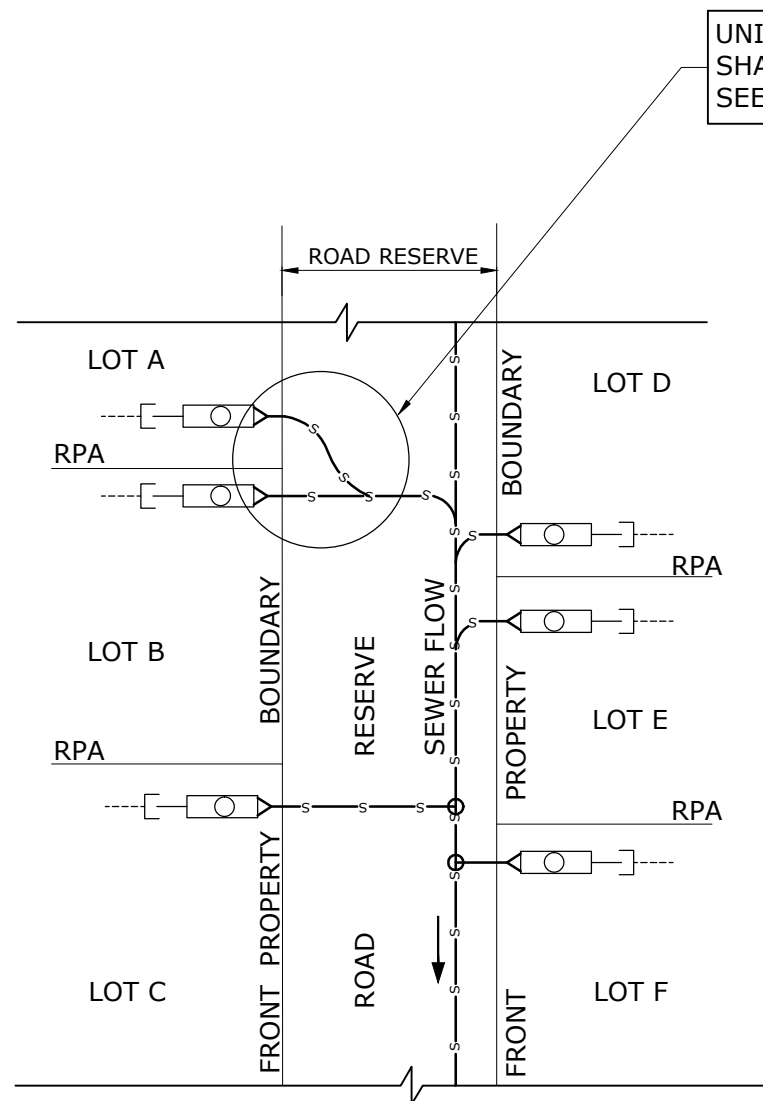
TYPE 'D' JUNCTION FITTING.
(150 x 150 COMPONENTS SHOWN)

NOTES:

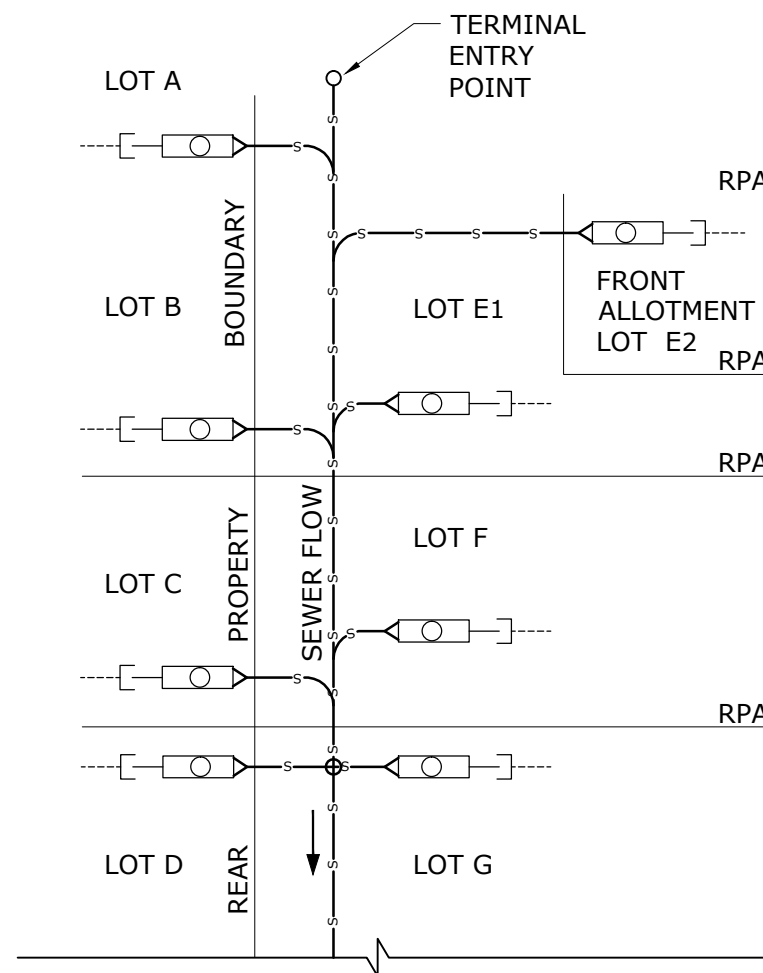
- BEDDING MATERIAL AND GENERAL COMPONENTRY SHALL COMPLY WITH THE REQUIREMENTS OF THE CODE SPECIFICATION AND ANY ADDENDUMS.
- TYPE "D" JUNCTION FITTINGS SHALL BE FACTORY ASSEMBLED AND CERTIFIED uPVC SEWER FITTINGS COMPLYING WITH AS/NZS 1260 THAT HAVE BEEN ASSEMBLED AND REINFORCED WITH FIBREGLASS AS SHOWN IN THE DRAWING. OBLIQUE JUNCTIONS AND 45° BENDS SHALL BE REINFORCED WITH FIBREGLASS AS SHOWN FOR A TYPE D JUNCTION OR MAY BE APPROVED G.R.P JUNCTIONS AND BENDS.
- THE SLIP COUPLING COMPONENT OF TYPE "D" JUNCTION FITTING SHALL BE MARKED TO IDENTIFY THE INSTALLATION REQUIREMENTS OF THE FITTING AND THE VERTICAL RISER PIPE, SEE TABLE ABOVE.
- THREADED LOCK DOWN QUICK RELEASE END CAPS SHALL BE SEALED BY A RUBBER RING, SCREW DOWN CAPS THAT UTILISE STAINLESS STEEL SCREWS ARE NOT PERMITTED.
- DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

REV. No.	DATE	DESCRIPTION	AUTH.	SEQ WATER SERVICE PROVIDERS		SEWERAGE STANDARD DRAWING		GCCC	LCC	RCC	QUU	UW
						SEWERAGE HOUSE CONNECTION TYPICAL CONSTRUCTION DETAILS RIGSS - SHEET 2		DRAWING No.				VERSION
								SEQ-SEW-1105-1				A
								NOT TO SCALE				ORG DATE: 1/1/2013

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE
OCCUPATIONAL HEALTH & SAFETY LEGISLATION



**PROPERTY CONNECTIONS
SEWER IN ROAD RESERVE**



**PROPERTY CONNECTIONS
SEWER AT REAR OF LOTS**

NOTES

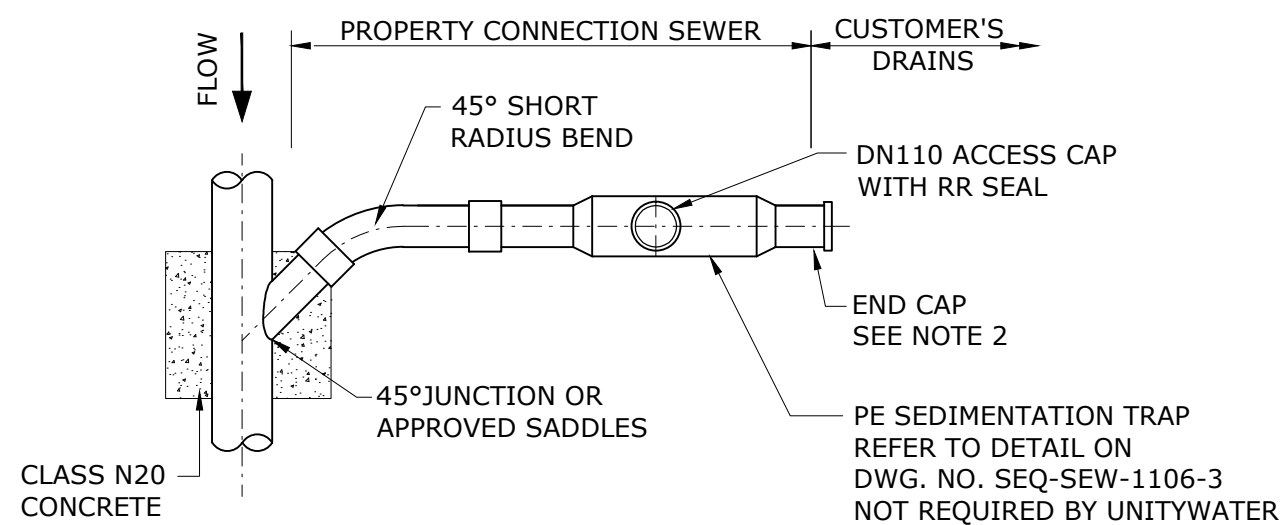
1. MAXIMUM DEPTH TO PROPERTY CONNECTION INVERT SHALL BE 1500mm.
2. CONCRETE SHALL BE CLASS N20 TO WSA PS-357 EXCEPT FOR MAINTENANCE HOLES WHICH ARE SPECIAL CLASS TO WSA PS-358.
3. EACH ALLOTMENT SHALL BE SERVED BY A DN110 DIAMETER PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN160 DIAMETER PROPERTY CONNECTION SHALL BE PROVIDED.
4. PROPERTY CONNECTION JUNCTIONS SHALL BE LOCATED 1.2m FROM THE DOWNSTREAM ALIGNMENT. IF THIS IS NOT POSSIBLE PROPERTY CONNECTION JUNCTIONS SHALL NOT BE GREATER THAN 3.5m FROM THE DOWNSTREAM ALIGNMENT.
5. PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300mm AND A MAXIMUM OF 750mm. UNITYWATER REQUIRES MINIMUM EXTENSION OF 500mm INTO PROPERTY AS SHOWN ON SEQ-SEW-1106-7.
6. PROPERTY CONNECTION BRANCHES OF DN110 SHALL BE GRADED AT A MINIMUM OF 1 IN 60.
7. THE OBVERT LEVEL OF THE PROPERTY CONNECTION JUNCTION SHALL NOT BE LOWER THAN THE OBVERT LEVEL OF THE SEWER AT THE JUNCTION.
8. ALL PIPES, FITTINGS AND CONCRETE SHALL HAVE A MINIMUM COVER OF 1150mm IN FOOTPATHS AND ROADWAYS.
9. LOCATE SEWERS AND PROPERTY CONNECTIONS AS SHOWN ON THE DRAWINGS.
10. REFER DRAWING No SEQ-SEW-1106-2 TO SEQ-SEW-1106-7 FOR PROPERTY CONNECTION DETAILS.

SEDIMENT TRAP SHALL NOT BE PROVIDED FOR UNITYWATER
REFER SEQ-SEW-1106-7

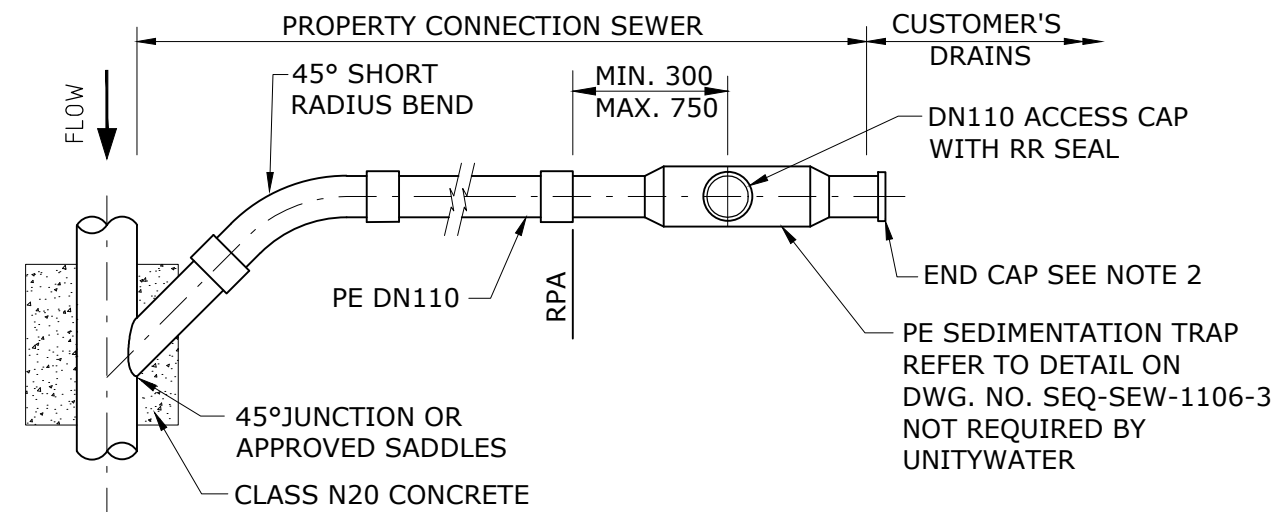
LEGEND

- SEDIMENT TRAP
- VERTICAL RISER
- HOUSE DRAIN CONNECTION

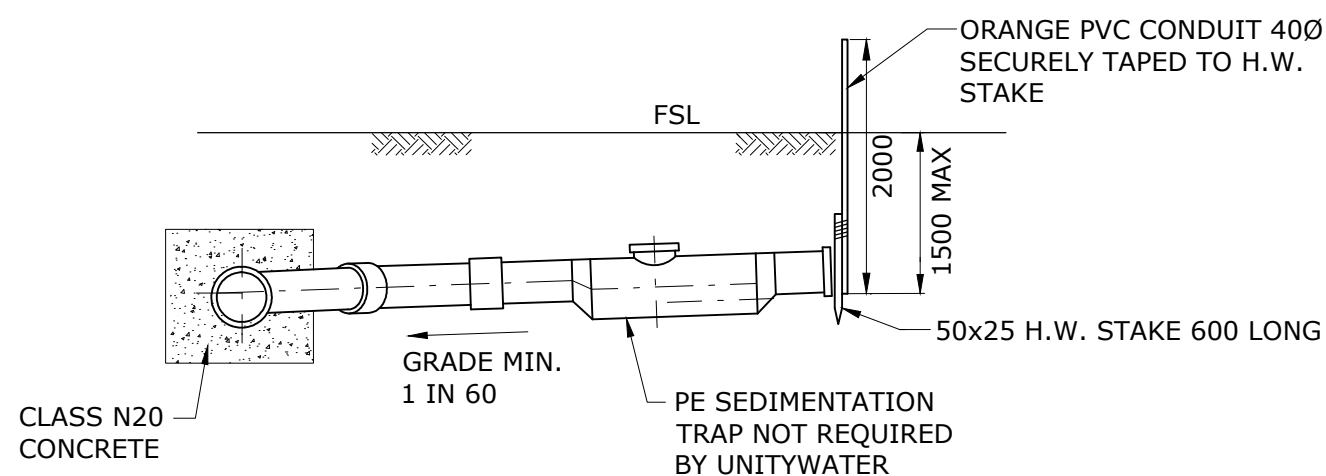
REV. No.	DATE	DESCRIPTION	AUTH.	SEQ WATER SERVICE PROVIDERS		SEWERAGE STANDARD DRAWING		GECC	LCC	REC	QUU	UW
						PE NUSEWERS PROPERTY CONNECTIONS TYPICAL LAYOUT		DRAWING No. SEQ-SEW-1106-1				VERSION A
				WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION				NOT TO SCALE				ORG DATE: 1/1/2013



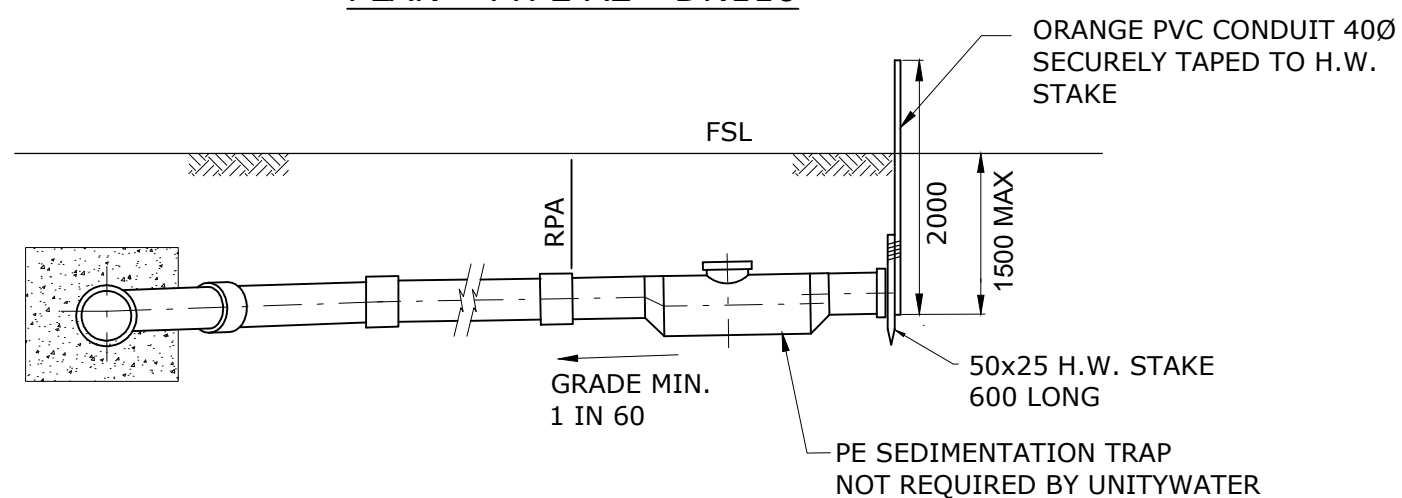
PLAN - TYPE A1 - DN110



PLAN - TYPE A2 - DN110



ELEVATION - TYPE A1 - DN110

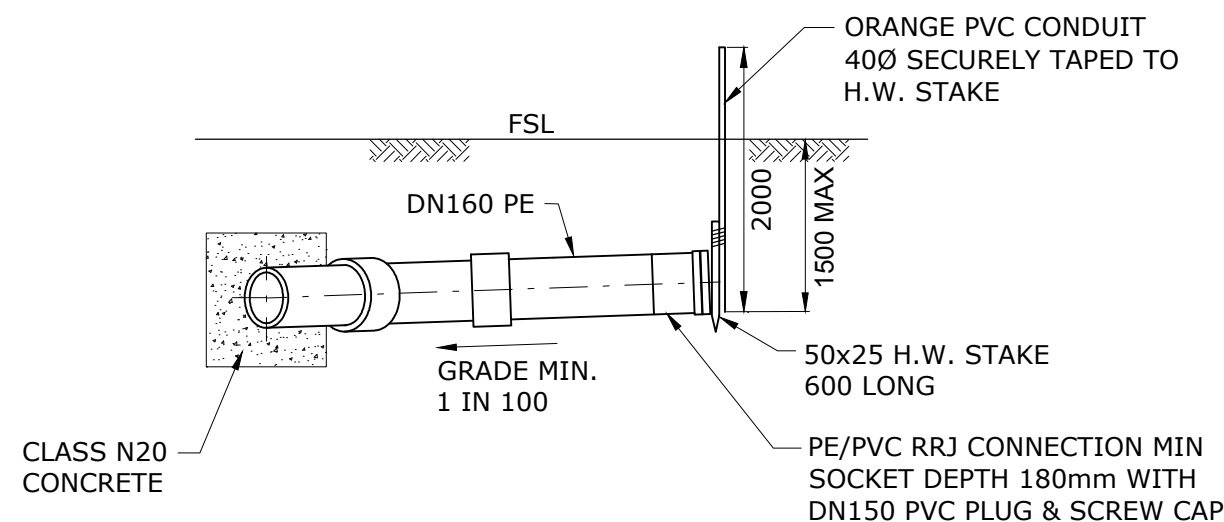


ELEVATION - TYPE A2 - DN110

NOTES

1. FOR PE SEWER NOTES REFER DRG. NO. SEQ-SEW-1106-1.
2. ALL DN110 PROPERTY CONNECTION SEWERS SHALL HAVE PE SEDIMENT TRAPS (EXCEPT UNITYWATER) WITH PE DN110 ACCESS CAP AND A RRJ PE/PVC CONNECTOR AND PLUG WITH SCREW CAP.
3. DN160 PROPERTY CONNECTION SEWERS SHALL HAVE A RRJ PE/PVC CONNECTOR INSTALLED.
4. ORANGE PVC CONDUIT AND HARDWOOD STAKE SHALL BE INSTALLED AT THE END OF EACH PROPERTY CONNECTION.
5. PROVIDE MIN.150 mm CONCRETE CLASS N20 SURROUND TO JUNCTIONS WHERE SHOWN ON DRAWINGS.

SEDIMENT TRAP SHALL NOT BE PROVIDED FOR UNITYWATER REFER SEQ-SEW-1106-7



**ELEVATION - TYPE A1 - DN160
(WITHOUT SEDIMENTATION TRAP)**

REV. No.	DATE	DESCRIPTION	AUTH.

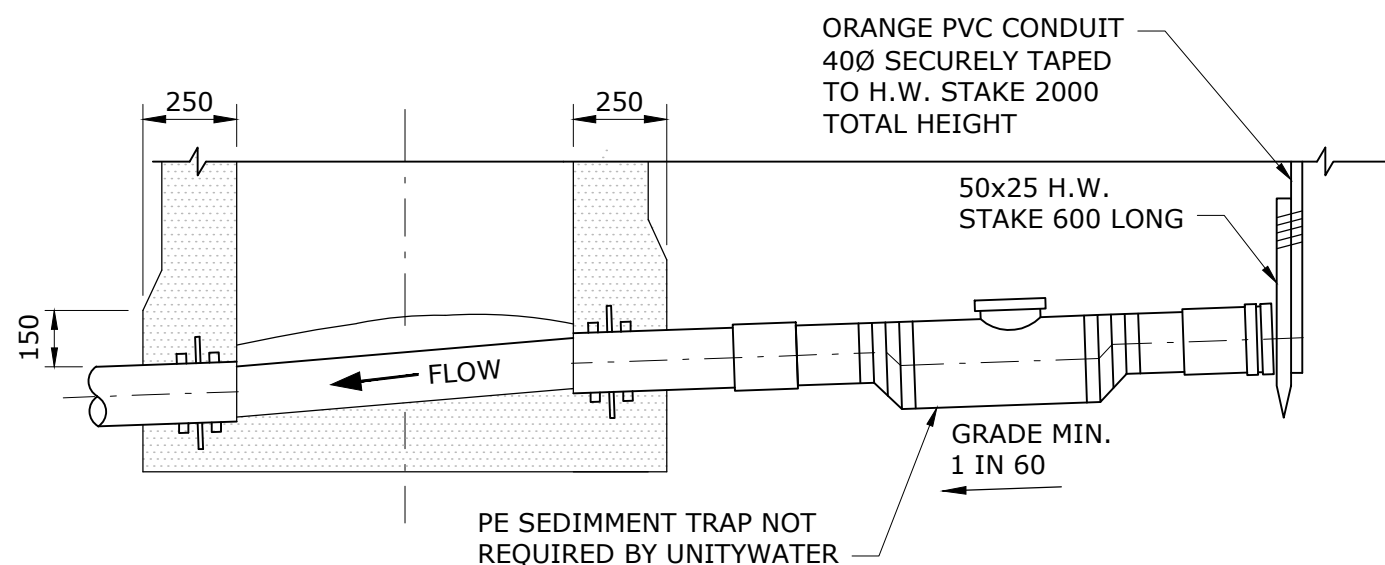
**SEQ WATER
SERVICE PROVIDERS**

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE
OCCUPATIONAL HEALTH & SAFETY LEGISLATION

SEWERAGE STANDARD DRAWING

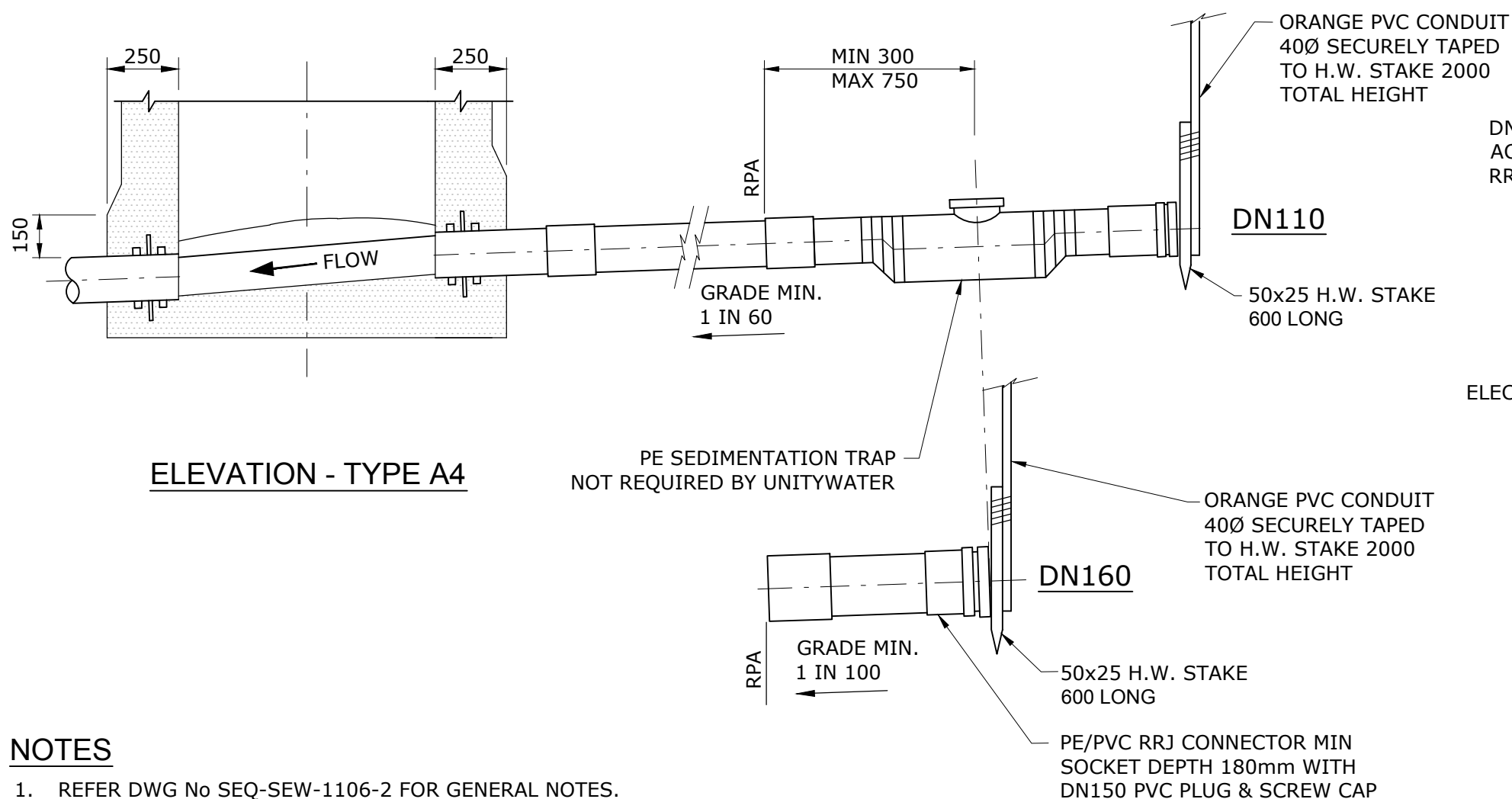
PE NUSEWERS
TYPICAL PROPERTY CONNECTION
TYPE A1, A2 STANDARD AND EXTENDED

GECC	LCC	RCC	QUU	UW
DRAWING No.				VERSION
SEQ-SEW-1106-2				A
NOT TO SCALE				ORG DATE: 1/1/2013

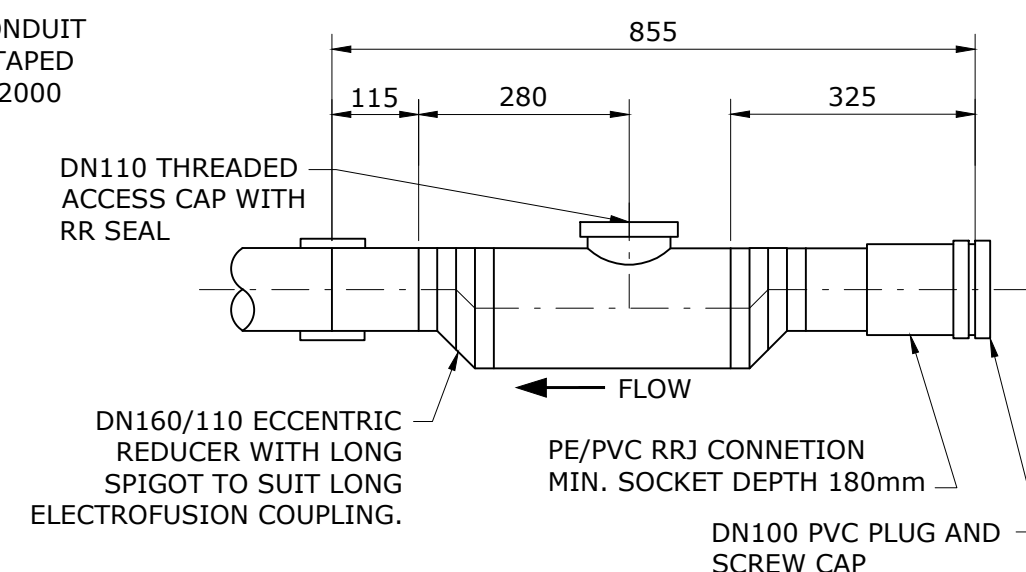


ELEVATION - TYPE A3 - DN110
(DN160 SIMILAR)

PROPERTY CONNECTION TABLE				
	1	2	3	4
TYPE A FULL DEPTH SEWER DEPTH <1500				



ELEVATION - TYPE A4



**ELEVATION
PE SEDIMENTATION TRAP**

SEDIMENT TRAP SHALL NOT BE PROVIDED FOR UNITYWATER
REFER SEQ-SEW-1106-7

NOTES

1. REFER DWG No SEQ-SEW-1106-2 FOR GENERAL NOTES.

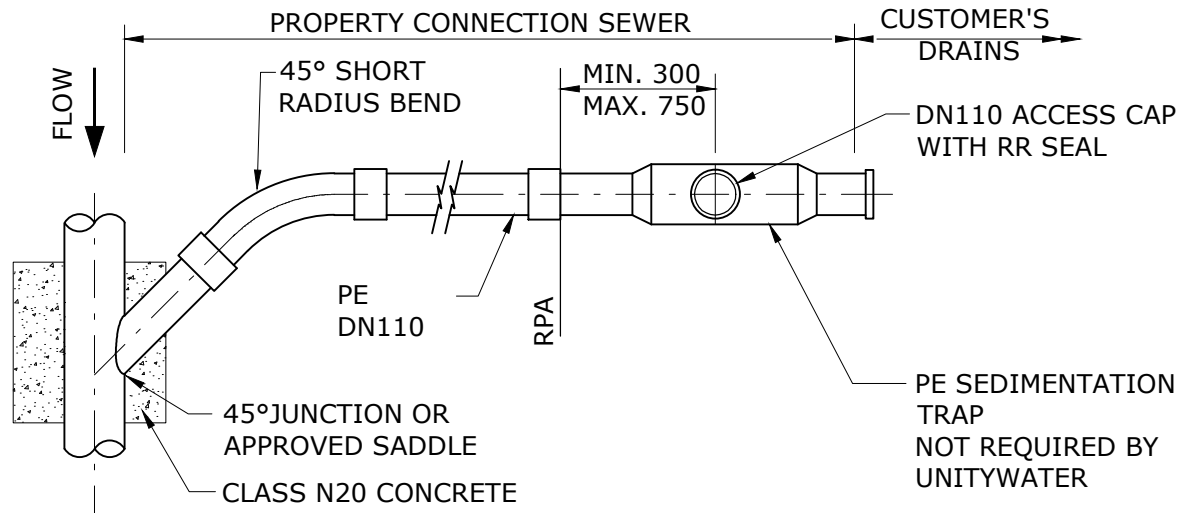
REV. No.	DATE	DESCRIPTION	AUTH.	SEQ WATER SERVICE PROVIDERS		SEWERAGE STANDARD DRAWING		GECC	LCC	RCC	QUU	UW
						PE NUSEWERS		DRAWING No.				VERSION
						TYPICAL PROPERTY CONNECTION		SEQ-SEW-1106-3				A
						TYPE A3, A4 STANDARD AND EXTENDED		NOT TO SCALE				ORG DATE: 1/1/2013

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE
OCCUPATIONAL HEALTH & SAFETY LEGISLATION

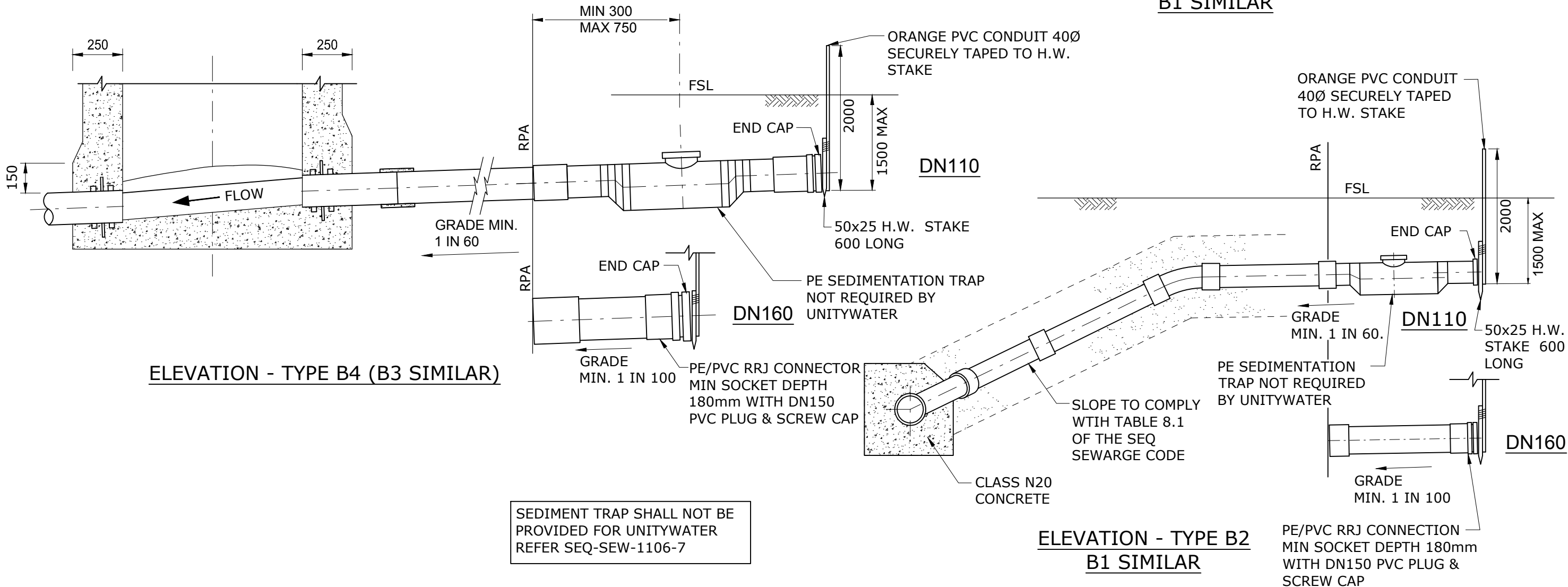
PROPERTY CONNECTION TABLE

	1	2	3	4
TYPE B SLOPED CONNECTION				

DIMENSIONS ARE TO INVERT LEVEL OF SEWERS



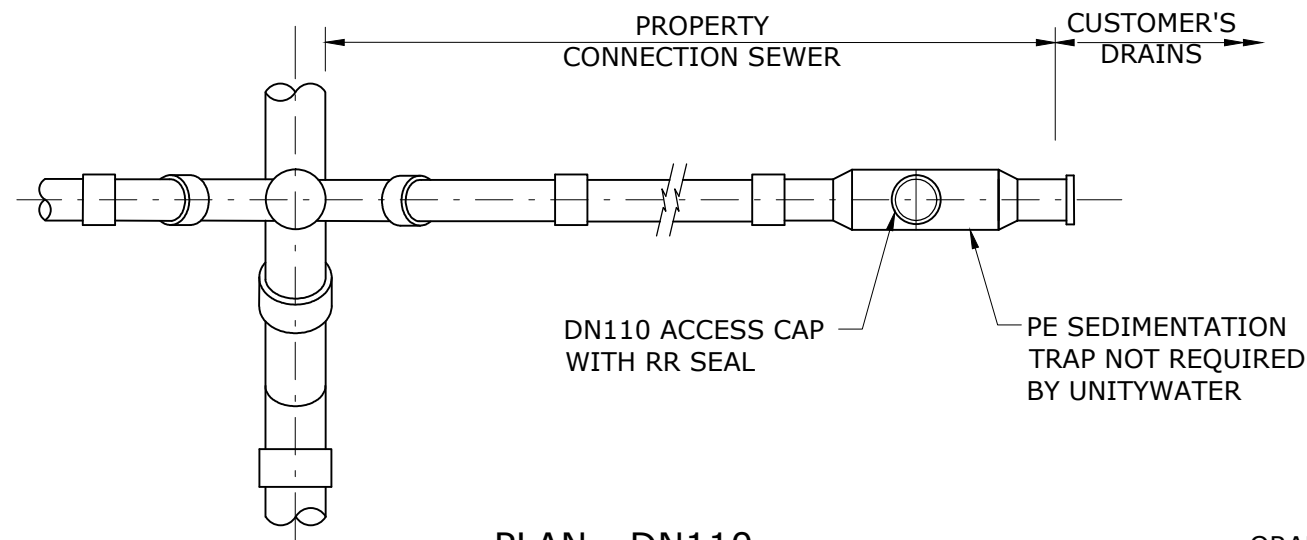
PLAN - TYPE B2
B1 SIMILAR



NOTES

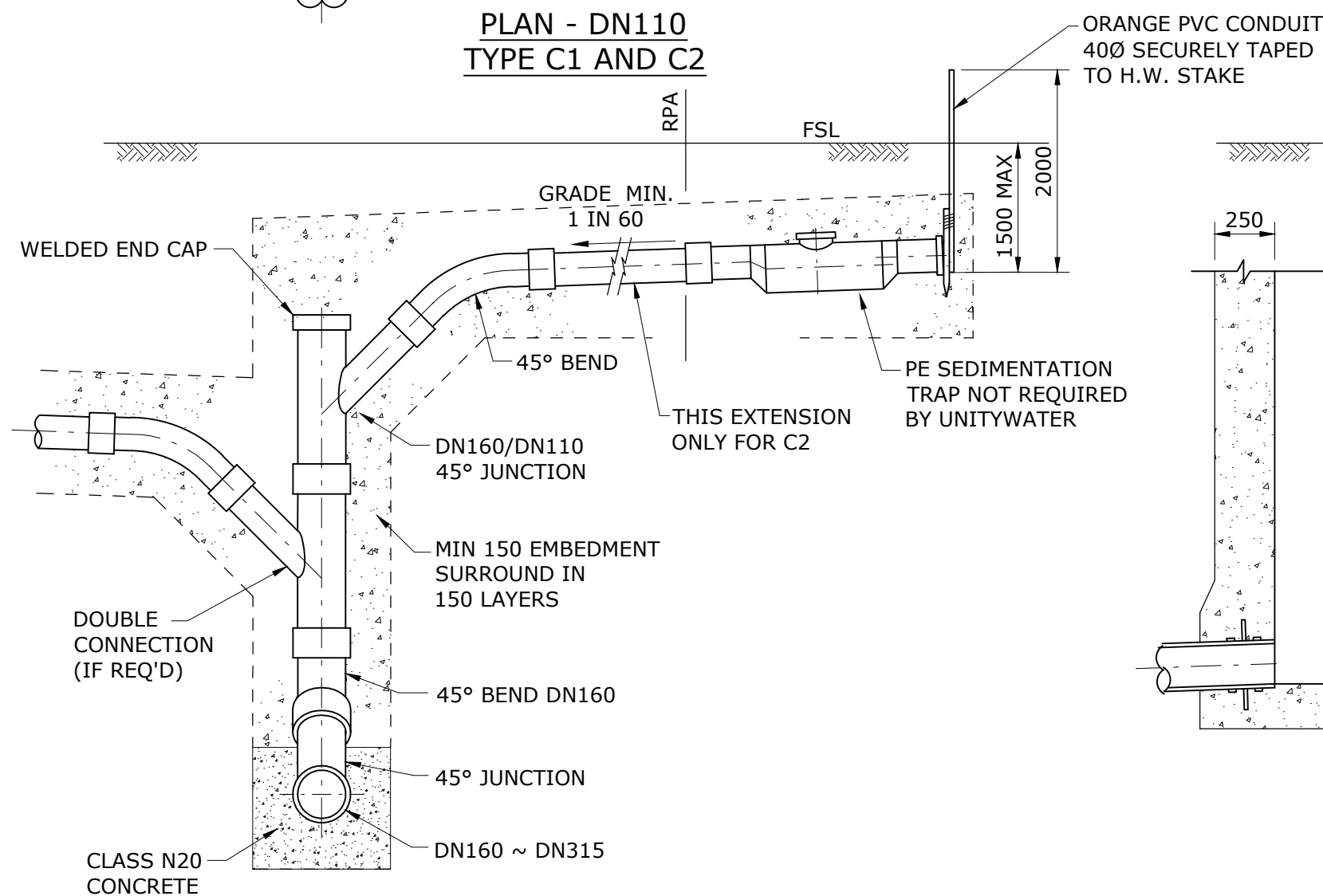
1. REFER DRAWING No. SEQ-SEW-1106-2 FOR GENERAL NOTES.

REV. No.	DATE	DESCRIPTION	AUTH.	<p>SEQ WATER SERVICE PROVIDERS</p> <p>WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION</p>	SEWERAGE STANDARD DRAWING	<div> <div>GECC</div> <div>LCC</div> <div>RCC</div> <div>QUU</div> <div>UW</div> </div>	VERSION
					PE NUSEWERS	DRAWING No.	
					TYPICAL PROPERTY CONNECTION	SEQ-SEW-1106-4	A
					TYPE B1 TO B4 SLOPED CONNECTIONS		
						NOT TO SCALE	ORG DATE: 1/1/2013

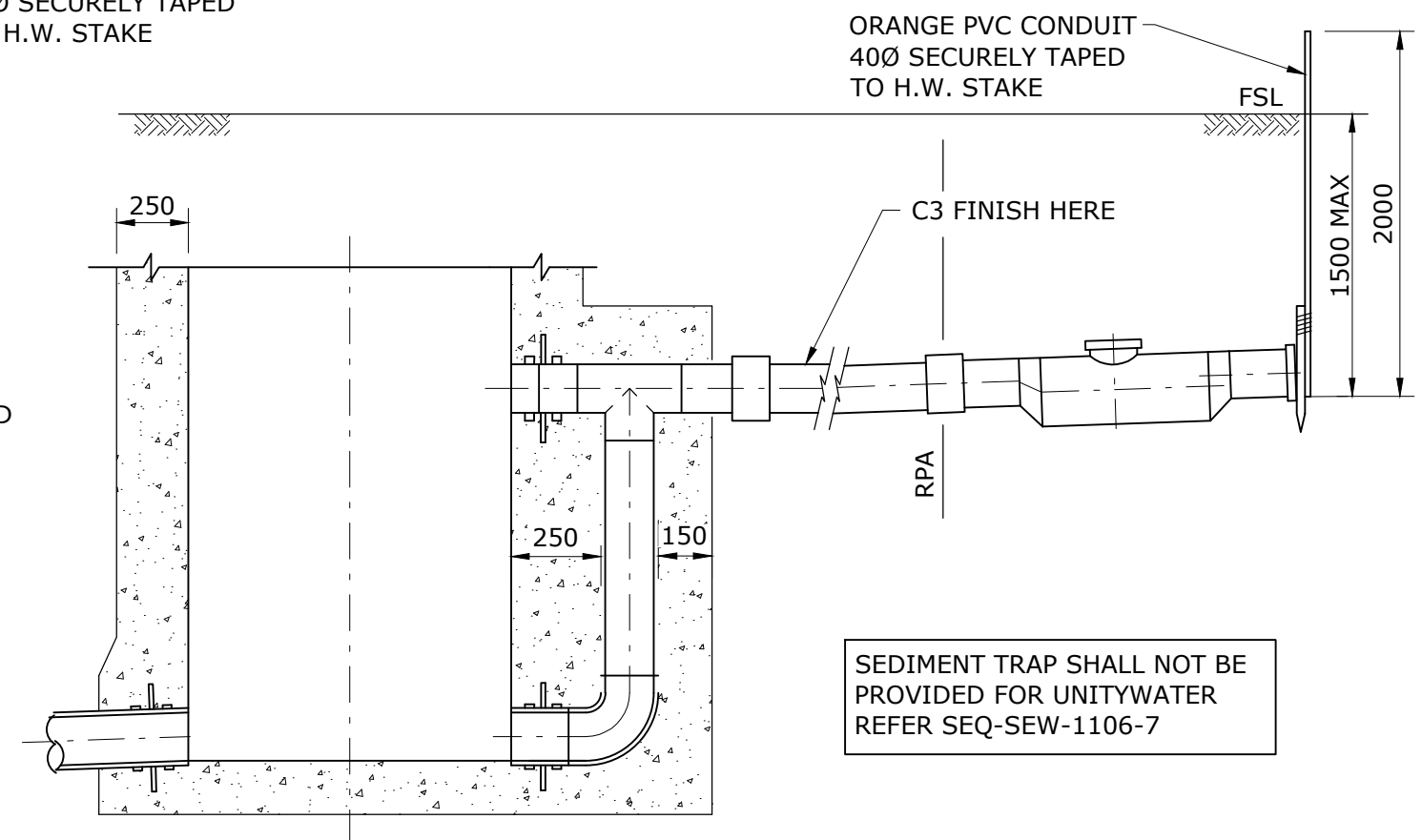


**PLAN - DN110
TYPE C1 AND C2**

PROPERTY CONNECTION TABLE				
	1	2	3	4
TYPE C JUMP UP (CAPPED END OF PC)	1500 MAX 	1500 MAX 	MH MS 750 MIN 	MH MS 750 MIN
DIMENSIONS ARE TO INVERT LEVEL OF SEWERS				



**ELEVATION - TYPE C1 AND C2 (C2 SHOWN)
VERTICAL RISER SINGLE OR DOUBLE CONNECTIONS**



**SECTION TYPE C3 AND C4
(C4 SHOWN)**

SEDIMENT TRAP SHALL NOT BE PROVIDED FOR UNITYWATER REFER SEQ-SEW-1106-7

NOTES:

1. MAX. 2 DN110 CONNECTIONS OR 1 DN160 CONNECTION FOR EACH JUMP UP OR MS.
2. SEDIMENTATION TRAPS ARE NOT REQUIRED FOR DN160 CONNECTIONS.
3. REFER SEQ-SEW-1106-2 FOR GENERAL NOTE.

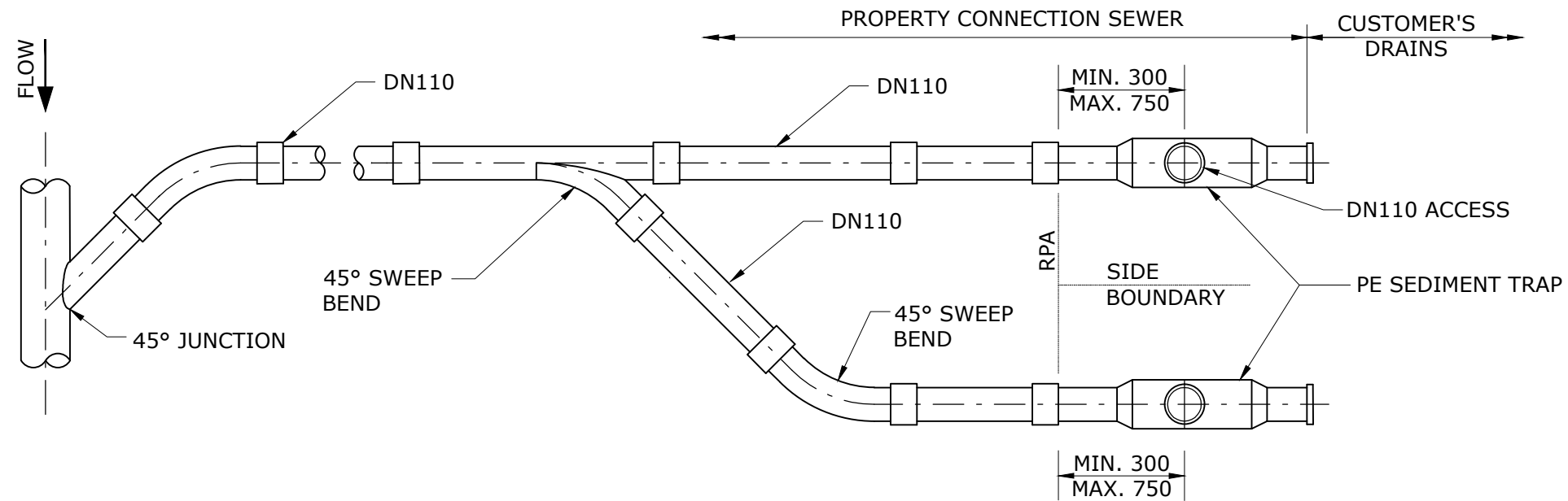
REV. No.	DATE	DESCRIPTION	AUTH.

**SEQ WATER
SERVICE PROVIDERS**

WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE
OCCUPATIONAL HEALTH & SAFETY LEGISLATION

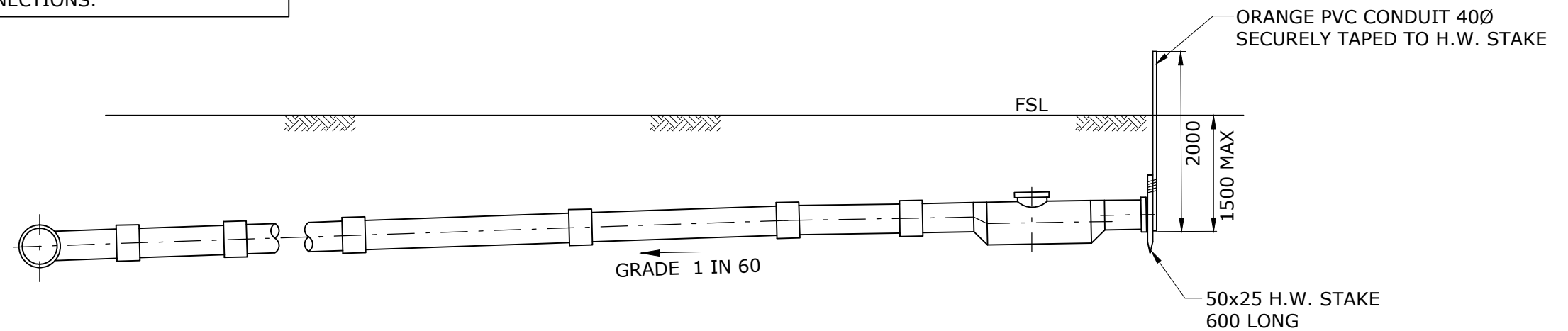
SEWERAGE STANDARD DRAWING
PE NUSEWERS
TYPICAL PROPERTY CONNECTION
TYPE C1 TO C4 VERTICAL RISER

GECC	LCC	RCC	QUU	UW
DRAWING No.				VERSION
SEQ-SEW-1106-5				A
NOT TO SCALE				ORG DATE: 1/1/2013



PLAN

ONLY TYPE A CONNECTION SHOWN HERE. REFER DWG. SEQ-SEW-1106-4 & SEQ-SEW-1106-5 FOR TYPE B AND C CONNECTIONS.

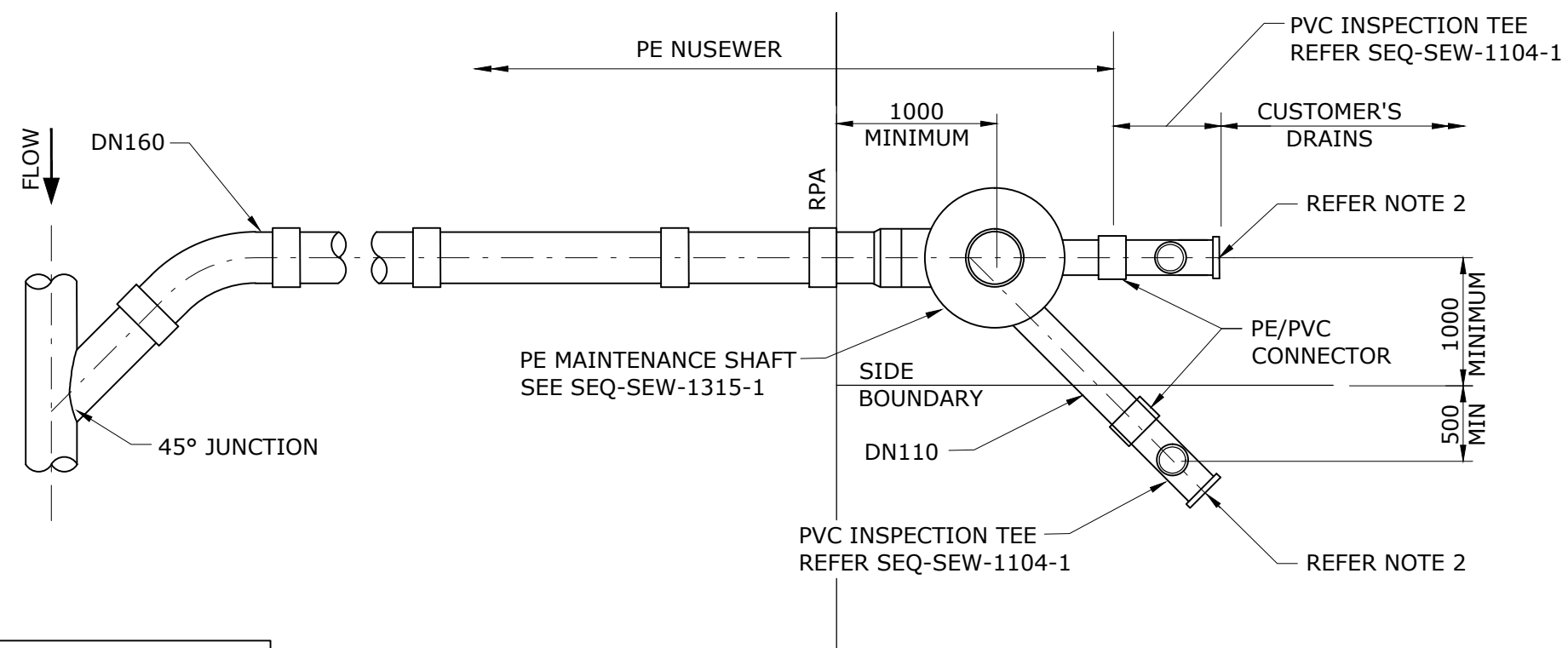


ELEVATION
TWIN PROPERTY CONNECTIONS

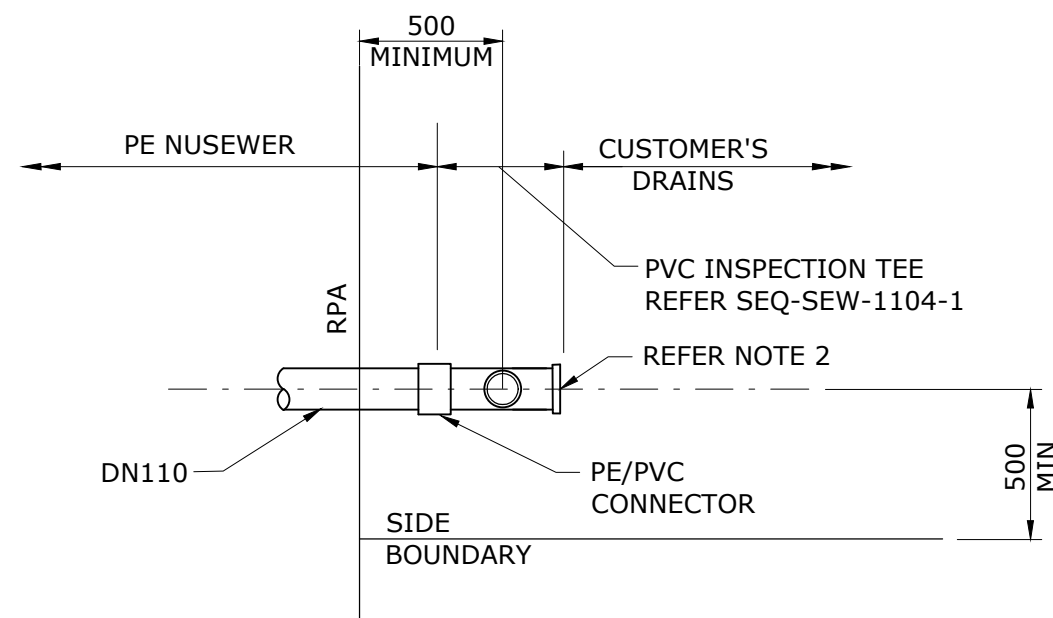
NOTES:

1. FOR GENERAL NOTES REFER DRAWING SEQ-SEW-1106-2

REV. No.	DATE	DESCRIPTION	AUTH.	SEQ WATER SERVICE PROVIDERS		SEWERAGE STANDARD DRAWING PE NUSEWERS TYPICAL TWIN PROPERTY CONNECTIONS		GECC	LCC	RCC	QUU	DW
								DRAWING No.				VERSION
				WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION				SEQ-SEW-1106-6				A
								NOT TO SCALE				ORG DATE: 1/1/2013



PLAN
TWIN PROPERTY CONNECTION (TYPICAL)



PLAN
SINGLE PROPERTY CONNECTION (TYPICAL)

ONLY TYPE A CONNECTION SHOWN HERE. REFER DWG. SEQ-SEW-1106-4 & SEQ-SEW-1106-5 FOR TYPE B AND C CONNECTIONS.

NOTES:

1. FOR GENERAL NOTES REFER DRAWING SEQ-SEW-1106-2
2. PROVIDE 2m LONG ORANGE PVC CONDUIT AND H.W STAKE TO MARK CONNECTION AS SHOWN IN SEQ-SEW-1106-2

REV. No.	DATE	DESCRIPTION	AUTH.	SEQ WATER SERVICE PROVIDERS		SEWERAGE STANDARD DRAWING PE NUSEWERS TYPICAL TWIN AND SINGLE PROPERTY CONNECTIONS		GCCC LCC RCC QUU UW				VERSION
								DRAWING No.				A
				WORK PRACTICES MUST COMPLY WITH ALL APPLICABLE OCCUPATIONAL HEALTH & SAFETY LEGISLATION				SEQ-SEW-1106-7				ORG DATE: 1/1/2013
								NOT TO SCALE				