### **GENERAL NOTES**

- GN1. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.
- GN2. THE DATUM FOR ALL LEVELS IS THE AUSTRALIAN HEIGHT DATUM IN METERS AND PROJECTIONS ARE BASED ON REAL WORLD MGA ZONE 56 COORDINATES.
- GN3. ALL CONSTRUCTION SHALL JOIN SMOOTHLY TO EXISTING.
- GN4. THE CONTRACTOR SHALL CONTACT ALL RELEVANT SERVICE AUTHORITIES FOR DETAILED LOCATION AND LEVEL OF SERVICES PRIOR TO COMMENCEMENT OF WORKS AND THE SITE. ANY DAMAGE TO EXISTING SERVICES SHALL BE RECTIFIED AT THE CONTRACTORS EXPENSE.
- GN5. ALL WORK SHALL CONFORM WITH THE RELEVANT CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES, SPECIFICATIONS AND REQUIREMENTS.

### **CLEARING OF VEGETATION**

- VE1. NO CLEARING SHALL BE CARRIED OUT BEYOND THE EXTENT OF EARTHWORKS OR WHERE NECESSARY FOR SERVICES CONSTRUCTION WITHOUT THE WRITTEN APPROVAL OF THE SUPERINTENDENT.
- VE2. ALL DRAINAGE, EROSION AND SEDIMENT CONTROLS TO BE INSTALLED AND FULLY OPERATIONAL BEFORE COMMENCING ANY CLEARING.

# **EARTHWORKS AND PAVEMENT CONSTRUCTION NOTES**

- EW1. THE CONTRACTOR SHALL PROVIDE CERTIFICATION FROM A RPEQ QUALIFIED ENGINEER THAT THE INSPECTION AND TESTING HAS BEEN UNDERTAKEN IN ACCORDANCE WITH CMDG CP1-CONSTRUCTION PROCEDURES, SECTION CP1.15, INCLUDING MANDATORY HOLD POINT INSPECTIONS.
- EW2. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL INVESTIGATION REPORT - (IF AVAILABLE)
- EW3. ALL EXISTING UNDERGROUND SERVICES TO BE LOCATED AND MARKED PRIOR TO COMMENCING EARTHWORKS.
- EW4. ALL EXCAVATIONS ARE ASSUMED TO ENCOUNTER WATER SEEPAGE AND THEREFORE THE CONTRACTOR SHALL MAKE PROVISION FOR WATER INGRESS DURING CONSTRUCTION.
- EW5. THE CONTRACTOR IS REQUIRED TEST THE INSITU SUBGRADE CBR, SHRINK / SWELL POTENTIAL, AND LIME DEMAND TO ASSESS ANY ADDITIONAL SUBGRADE TREATMENT REQUIREMENTS PRIOR TO PAVEMENT CONSTRUCTION.
- EW6. SUBGRADES WITH CBR LESS THAN 3% REQUIRE ADDITIONAL MINIMUM COVER TO ROVIDE A STABLE CONSTRUCTION PLATFORM CONSISTING OF GEOTEXTILE WRAPPED GRANULAR MATERIAL. COMPRISING OF EITHER COARSE UNBOUND GRANULAR MATERIAL (TYPE 2.5 MATERIAL IN DRY CONDITIONS, OR TYPE 2.4 MATERIAL IN WET CONDITIONS) OR ROCK FILL (MRTS04 GENERAL EARTHWORKS). WITH THICKNESS AS INDICATED IN TABLE 1. (ALSO REFER TMR SUPPLEMENT TO AGPT PART 2, TABLE 3.14.1.)

### TABLE 2:

IN SITU SUBGRADE CBR AT TIME OF CONSTRUCTION (%)	TYPICAL MINIMUM COVER OF GRANULAR FILL TO PROVIDE A STABLE CONSTRUCTION PLATFORM (mm)
1.0-1.4	400
1.5-1.9	300
2.0-2.4	200
2.5-2.9	100

WHERE THE SUBGRADE IS CLASSIFIED AS HAVING HIGH EXPANSIVE NATURE (HAVING SWELL > 5.0% ) ADDITIONAL MINIMUM COVER THICKNESS (INCLUSIVE OF PAVEMENT AND ANY NON-REACTIVE FILL / SUBGRADE TREATMENTS) IS REQUIRED TO MINIMISE VOLUME CHANGE IMPACTS ON THE OVERLYING PAVEMENT CAUSED BY SEASONAL MOISTURE VARIATION, THE TOTAL COVER THICKNESS REQUIREMENTS ARE PROVIDED IN TABLE 2. WHERE THE SUBGRADE SWELL IS > 10% ADDITIONAL GEOTECHNICAL ADVICE MUST BE SOUGHT. (ALSO REFER TO TMR SUPPLEMENT TO AGPT PART 2, TABLE 5.3.5 AND FIGURE 5.3.5.)

# EARTHWORKS AND PAVEMENT **CONSTRUCTION NOTES (CONT.)**

TABLE 2:

TYPICAL COVER THICKNESS OVER HIGHLY AND VERY HIGHLY EXPANSIVE												
MATE	MATERIAL FOR FLEXIBLE PAVEMENTS											
TDAFFIC	HIGHLY EXPANSIVE SOIL	VERY HIGHLY EXPANSIVE										
TRAFFIC	(SWELL 2.5% TO 5.0%)	SOIL (SWELL 5.0% TO 10%										
3.5E = 05 ESAs	615 mm	910 mm										
6.0E = 05 ESAs	650 mm	950 mm										
8.0E = 05 ESAs	680 mm	980 mm										

- EW8. ALL FILLING SHALL BE CLEAN EXCAVATED MATERIAL FREE FROM TOPSOIL AND VEGETATION.
- EW9. THE EXISTING SITE WON MATERIALS MAY CONTAIN ROCKS AND COBBLES AND THESE HALL BE EXCLUDED OVER 50mm NOMINAL SIZE IN ANY EXISTING MATERIAL USED AS FILLING.
- EW10. ANY IMPORTED FILLING MATERIAL REQUIRED TO MAKE UP SHORTFALLS IN QUANTITIES SHALL BE CLEAN SOIL MATERIAL FREE FROM TOPSOIL, VEGETABLE MATTER AND OTHER DELETERIOUS MATERIAL. THE FILLING SHALL BE FREE FROM COBBLES OR ROCKS IN EXCESS OF 50mm NOMINAL SIZE. THE MATERIAL SHALL HAVE A MINIMUM SOAKED CBR 15 UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.
- EW11. ALL FILLING SHALL BE PLACED IN MAXIMUM 200mm LOOSE LAYER THICKNESS WITH EACH LAYER COMPACTED TO AT LEAST 98% COMPACTING AS MEASURED BY THE STANDARD METHOD DESCRIBED IN AS 1289.
- EW12. FILL DENSITY TESTING SHALL CONFORM TO THE FOLLOWING:
  - a. 1 TEST PER 500 cu.m GENERALLY
  - b. 1 TEST PER 2 LAYERS PER 40m TRENCH BACKFILL
- EW13. PLACEMENT OF FILL SHALL CONFORM TO THE FOLLOWING MINIMUM DRY DENSITY RATIO (M.D.D.R.) COMPACTION STANDARDS:
  - a. ALLOTMENTS = 98% STD
  - ROAD VERGES/EMBANKMENTS = 98% STD
  - c. PAVEMENT SUBGRADE = 98% STD (70% DENSITY INDEX FOR COHESIONLESS MATERIALS)
- EW14. ALL EXISTING GRASSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE TOP SOILED TO A MINIMUM DEPTH OF 100mm AND TURFED OR SEEDED WITH A MINIMUM STRIKE RATE OF 80% PRIOR TO PRACTICAL COMPLETION I NSPECTION.
- EW15. ALL TEMPORARY STOCKPILES (IF APPLICABLE) TO HAVE 1:6 MAXIMUM SIDE BATTERS (GRASS SEEDED). NO TEMPORARY STOCKPILES SHALL BE PLACED WITHIN 10m OF A FLOODWAY.

# **ROADWORKS NOTES**

- THE CONTRACTOR SHALL ESTABLISH THE LOCATION, LINE & LEVEL OF ALL PUBLIC AND PRIVATE UTILITY SERVICES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. WHERE UTILITY SERVICES ARE SHOWN ON THE PLANS. THEY ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR ONLY. THE PRINCIPAL SHALL NOT BE LIABLE FOR ANY OMISSION OF SERVICES FROM THE PLANS OR THE ACCURACY OF ANY SERVICES SHOWN ON THE PLANS.
- SURFACE LEVELS OVER THE SITE HAVE BEEN INTERPOLATED THROUGH COMPUTER MODELING OF FIELD SURVEY DATA. THESE CALCULATED LEVELS MAY VARY FROM THE ACTUAL GROUND LEVEL.
- ALL CONSTRUCTION LEVELS SHALL BE SET BY THE CONTRACTOR WITH REFERENCE TO SURVEYED BENCH MARKS PROVIDED BY THE PRINCIPAL'S APPOINTED SURVEYOR.
- ALL KERBING SHALL CONFORM TO RELEVANT CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES STANDARD DRAWINGS.
- ALL ROADSIDE VERGE AREAS AND BATTERS SHALL BE TOP SOILED TO A MINIMUM DEPTH OF 100mm (LIGHTLY COMPACTED) AND TURFED OR SEEDED.
- PAVEMENT MARKINGS AND SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH THE QUEENSLAND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

# **DRAINAGE NOTES**

- DN1. THE CONTRACTOR SHALL CONFIRM ALL LEVELS BEFORE COMMENCING WORK
- DN2. ALL EXISTING UNDERGROUND SERVICES TO BE LOCATED AND MARKED PRIOR TO COMMENCING FARTHWORKS.
- DN3. PIPE BEDDING AND BACKFILL ARE IN ACCORDANCE WITH CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES, SPECIFICATION AND/OR STANDARD DRAWINGS.
- DN4. MATERIALS AND CONSTRUCTION ARE IN ACCORDANCE WITH COUNCIL'S STANDARD SPECIFICATION FOR STORMWATER DRAINAGE
- DN5. REINFORCED CONCRETE DRAINAGE PIPES UP TO 600 Ø SHALL BE RUBBER JOINTED CLASS 4 RCP'S UNLESS NOTED OTHERWISE.
- DN6. REINFORCED CONCRETE DRAINAGE PIPES 675 Ø OR LARGER SHALL BE FLUSH JOINTED CLASS 3 RCP'S UNLESS NOTED OTHERWISE.
- DN7. STORMPRO (PPE, RRJ, MINIMUM CLASS SN8), OR APPROVED EQUIVALENT, MAY BE ACCEPTED WITH SITE SPECIFIC COUNCIL APPROVAL. TRENCH WIDTHS AND BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH IPWEAQ STANDARD DRAWING DS-030 AND AS2566.2. COMPACTION OF BEDDING AND BACKFILL MATERIAL SHALL BE MINIMUM 90% MMDD IN ACCORDANCE WITH AS2566.2. HDPE PIPES SHALL BE OVALITY TESTED PRIOR TO PRACTICAL COMPLETION WITH COUNCIL. TO DEMONSTRATE <7.5% DEFORMATION.
- DN8. FIBRE REINFORCED CONCRETE DRAINAGE PIPES SHALL NOT BE PERMITTED.
- DN9. ALL STORMWATER BEDDING SHALL BE TYPE 'H2'.
- DN10. FILL BETWEEN TWIN BOX CULVERTS TO BE DRY LEAN MIX.
- DN11. BITUTHENE TAPE TO BE USED ON BOX CULVERT JOINTS.
- DN12. DE-WATERING WHERE REQUIRED TO BE AT THE CONTRACTORS COST.
- DN13. INVERT LEVELS SHOWN ON PLAN ARE AT PIPE/STRUCTURE JUNCTION.
- DN14. NOMINAL COVER TO RCP'S IS 600mm IN ROADWAYS AND 400mm IN LANDSCAPED AREAS, NOMINAL COVER TO RCBC'S ARE 300mm IN ROADWAYS.
- DN15. THE CONTRACTOR IS TO ENSURE THE METHOD OF COMPACTION OF THE BACKFILL IS SUITABLE FOR THE CLASS OF PIPE INDICATED ON THE DRAWINGS.
- DN16. LIDS TO CAST-IN-SITU MANHOLES ARE HEAVY DUTY, CLOSE FITTING BOLT DOWN CAST IRON OR GALVANISED STEEL, CONCRETE INFILL TYPE (GATIC LIGHT DUTY POLYCRETE BROADSTEL OR SIMILAR) OF APPROXIMATELY THE SAME INTERNAL DIMENSIONS AS THE MANHOLE.
- DN17. ALL STEEL GRATES AND FRAMES TO BE HOT DIPPED GALVANIZED AND SHALL BE CYCLE PROOF IN ACCORDANCE WITH AS 3996.
- DN18. LIDS MATCH FINISHED SURFACE GROUND SLOPE AND SIT PROUD AS SHOWN ON THE LOCAL AUTHORITIES STANDARD AND ARE MARKED "STORMWATER" IMPRESSED INTO THE CONCRETE INFILL. INFILL CONCRETE IS CLASS N25.
- DN19. UPVC PIPE AND KERB ADAPTORS ARE USED WHERE DISCHARGE IS INTO THE KERB AND CHANNEL.

### **UNDERGROUND SERVICES**

- US1. UNDERGROUND SERVICES HAVE BEEN LOCATED ONLY WHERE OBVIOUS. SOME SERVICES THAT WERE NOT OBVIOUS AND ARE NOT SHOWN ON THE DRAWINGS MAY STILL BE PRESENT. IT IS THE RESPONSIBILITY OF ANY PERSON EXCAVATING / BUILDING ON, OR ADJACENT TO THE SITE TO CONFIRM WITH THE RELEVANT AUTHORITY THE LOCATION OF SERVICES.
- US2. NEITHER THE PRINCIPAL OR THE CONSULTING ENGINEER EXCEPTS RESPONSIBILITY FOR DAMAGE TO SERVICES SHOWN OR NOT SHOWN ON THE DESIGN DRAWINGS.
- US3. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR DAMAGE INCURRED TO EXISTING UTILITY SERVICES AS A RESULT OF THE EXECUTION OF WORK UNDER THE CONTRACT. ANY DAMAGE TO EXISTING SERVICES (WHETHER IDENTIFIED ON DRAWINGS OR NOT) SHALL BE RECTIFIED AT THE CONTRACTORS EXPENSE.
- BEFORE YOU DIG AUSTRALIA TO BE CONTACTED FOR THE LOCATION OF EXISTING PUBLIC UTILITIES PRIOR TO EXCAVATION.



ISSUE FOR CONSTRUCTION 17.11.2023 No. | Revision Date

DRAWN CS DESIGN CHECK SS

(RPEQ 7736)

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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS GENERAL NOTES

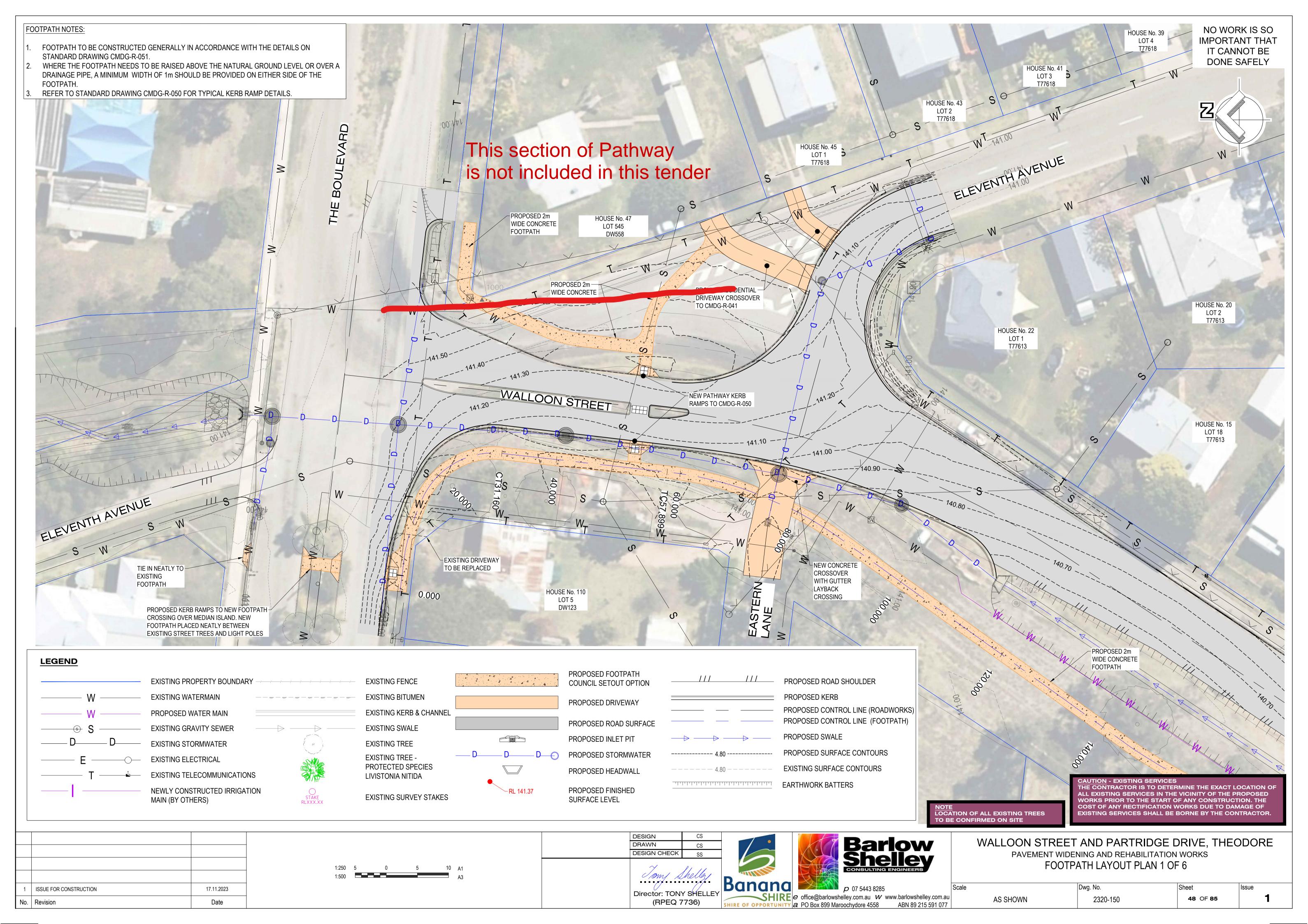
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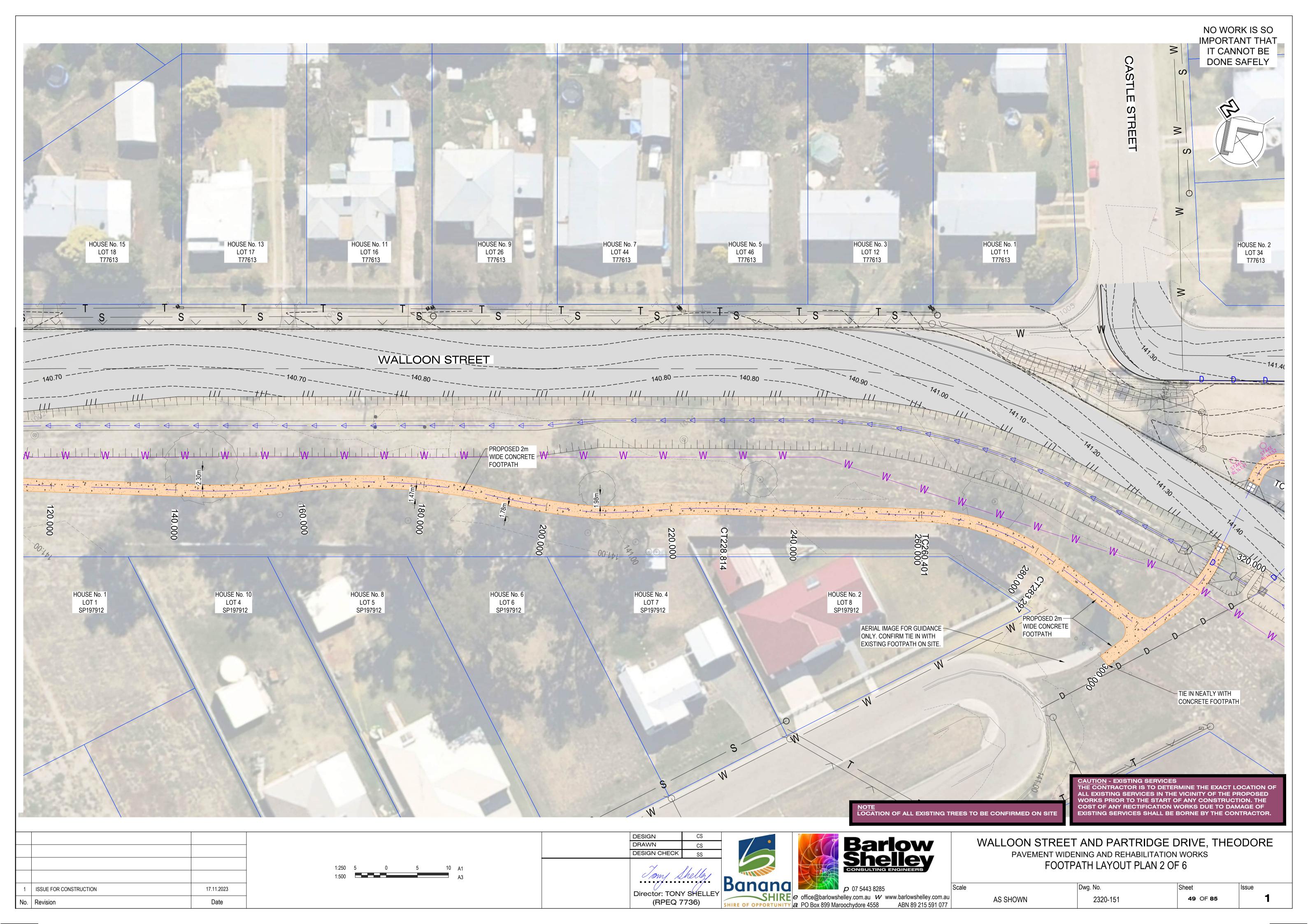
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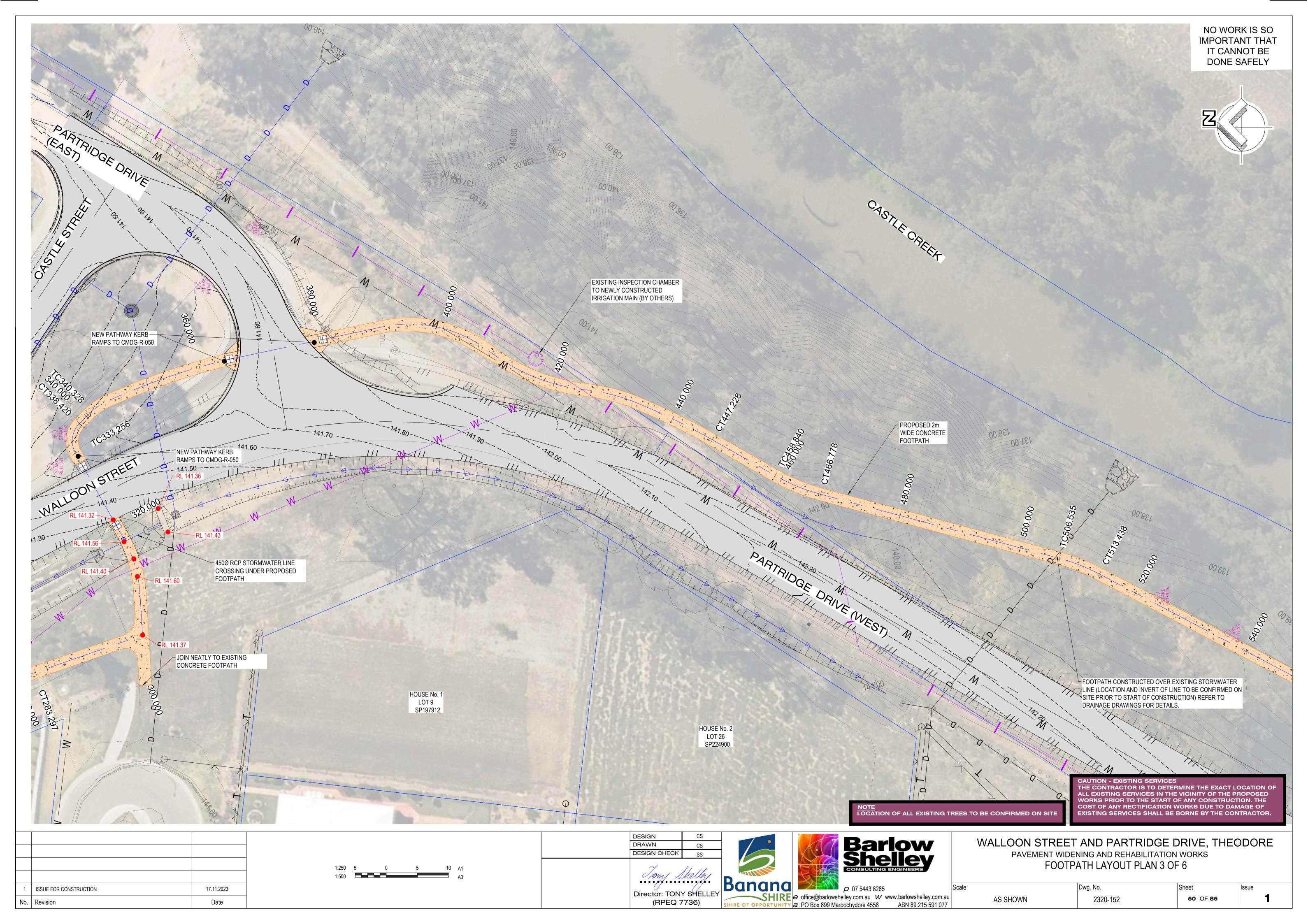
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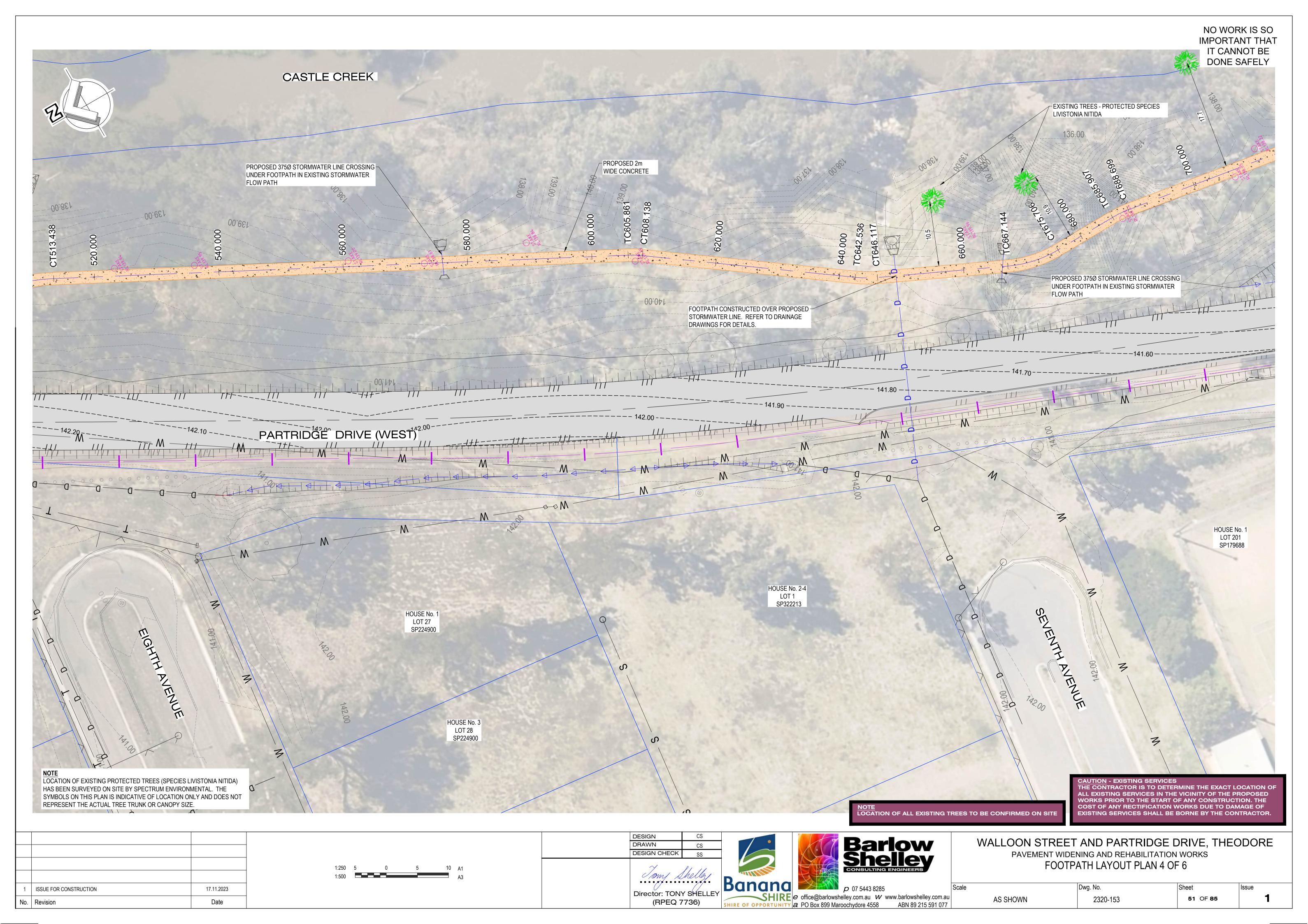
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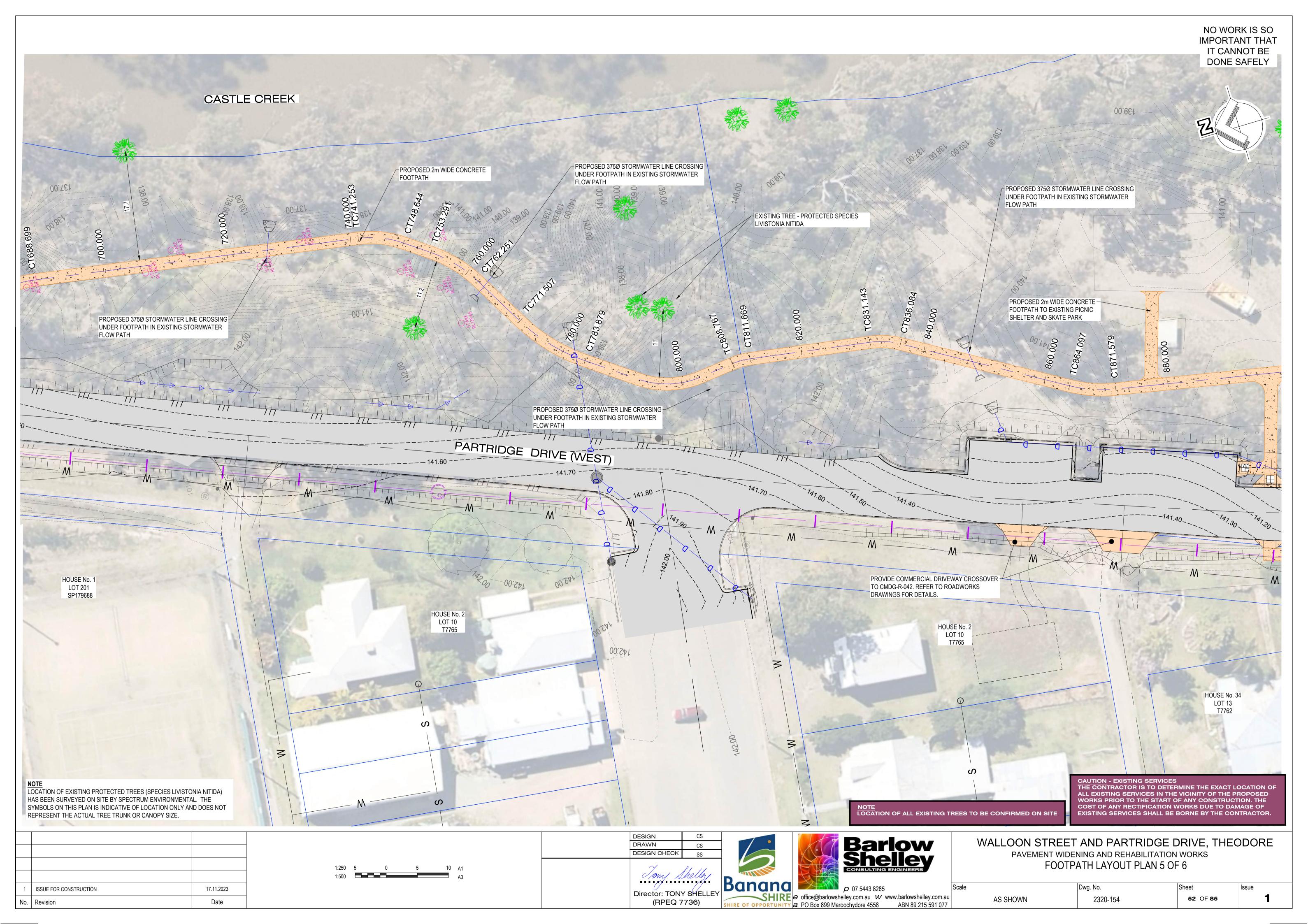
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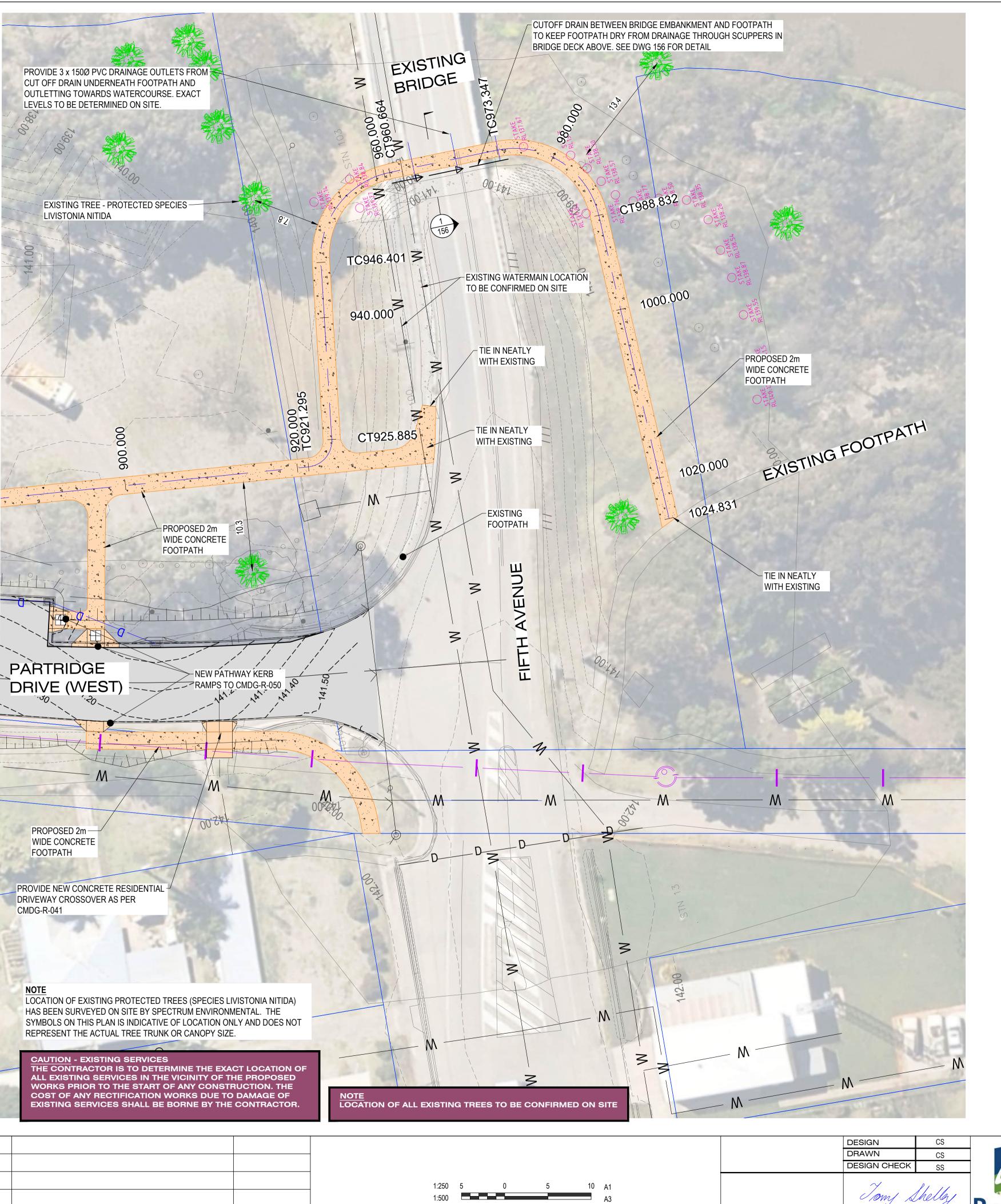












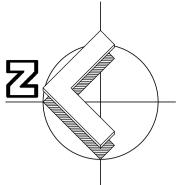
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No. Revision

17.11.2023

Date

NO WORK IS SO **IMPORTANT THAT** IT CANNOT BE **DONE SAFELY** 



WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS FOOTPATH LAYOUT PLAN 6 OF 6

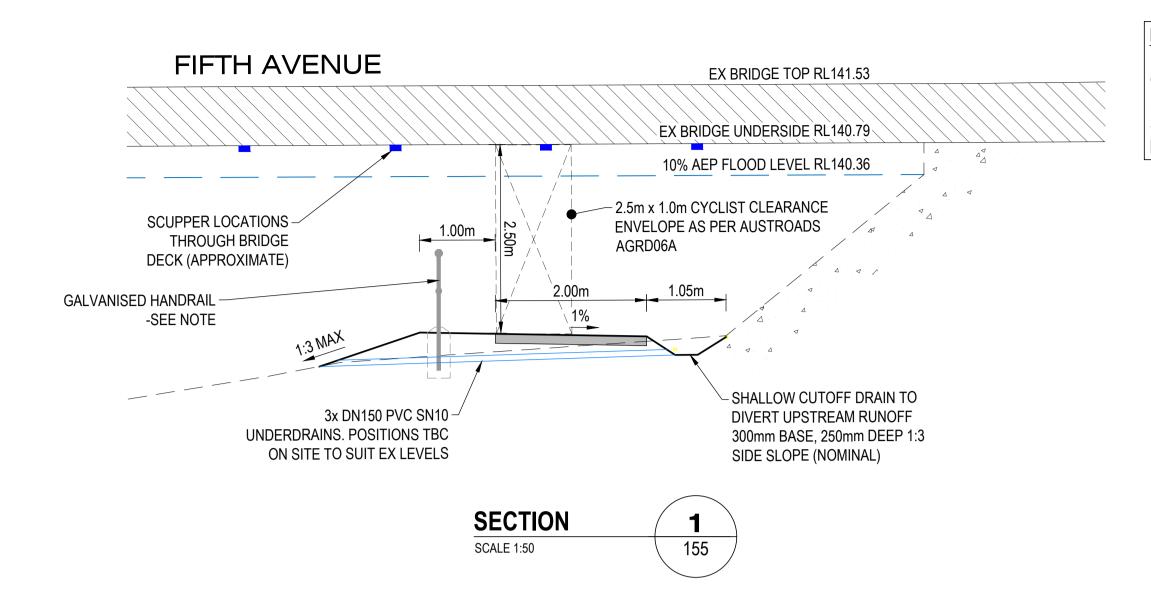
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53 OF 85

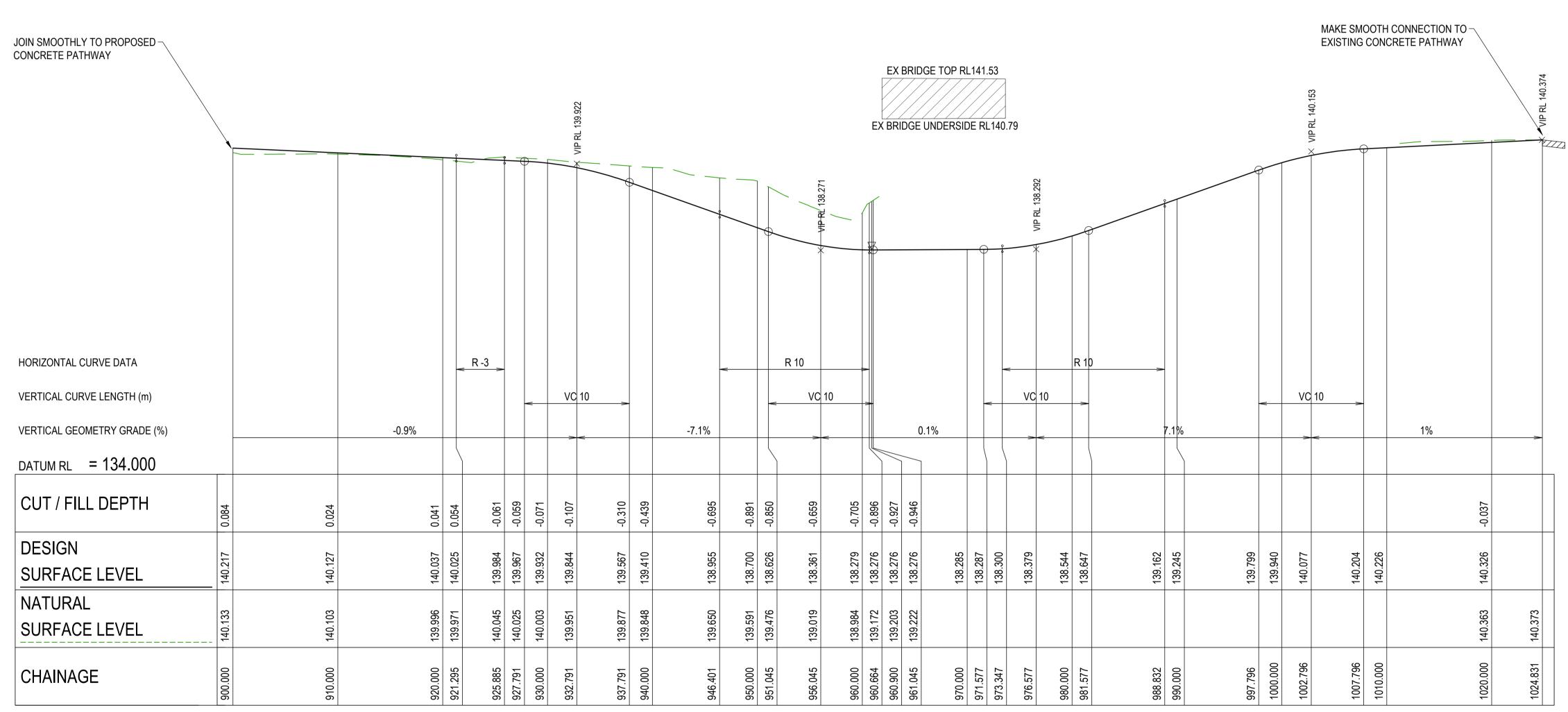
Director: TONY SHELLEY (RPEQ 7736)

Barlow Shelley SHIRE OF OPPORTUNITY A PO Box 899 Maroochydore 4558 ABN 89 215 591 077

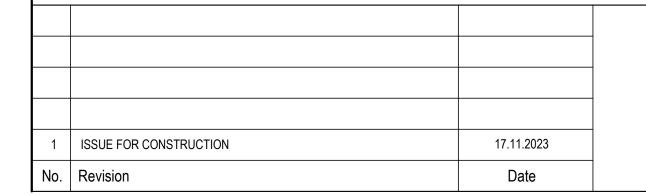


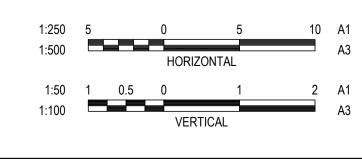
#### HANDRAIL NOTES:

GALVANISED HANDRAIL (WEBFORGE MONOWILLS, OR SIMILAR APPROVED) TO BE GENERALLY IN ACCORDANCE WITH STANDARD DRAWINGS CMDG-G-014, TYPE 2 TUBULAR STEEL FENCE WITH SLEEVE POST FOOTINGS.



HORIZONTAL SCALE 1:250 VERTICAL SCALE 1:50





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WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS
FOOTPATH UNDERPASS LONGITUDINAL SECTION AND CROSS SECTION

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AS SHOWN	2320-156

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2320-156	<b>54</b> OF <b>85</b>

Issue

NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY

PT	CHAINAGE	EASTING	TABLE - PR NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGL
IP 1	0.000	204781.003	7238324.820	7°20'53.55"	TO LET OF THE LE	7	DEI E., WOL
IP 2	6.694	204781.859	7238331.459				
IP 3	11.039	204782.801	7238335.717		R = 42.867	8.690	11°36'54.69
IP 4	15.384	204784.580	7238339.697				
IP 5	23.272	204788.308	7238348.036		R = 12.500	15.776	72°18'46.31
IP 6	31.160	204797.385	7238347.018				
TC	57.899	204823.957	7238344.038	96°23'53.16"			
IP 7	64.865	204830.912	7238343.258		R = 59.000	13.931	13°31'44.34
IP 8	71.831	204837.491	7238340.873				
IP 9	78.894	204843.977	7238338.078				
IP 10	83.473	204848.069	7238336.003		R = 59.962	9.158	8°45'03.30
IP 11	88.052	204851.797	7238333.329				
IP 12	145.729	204898.647	7238299.686				
IP 13	151.941	204903.818	7238296.231		R = -101.000	12.424	7°02'52.93
CC	158.153	204909.375	7238293.436	116°41'52.48"			. 52 52.50
IP 14	173.630	204923.316	7238286.426	170 1702110	R = 99.000	30.954	17°54'51.67
IP 15	189.107	204934.424	7238275.467		11 00.000	00.001	17 0101.01
IP 16	198.784	204940.966	7238268.311		R = -127.112	19.354	8°43'25.97
IP 17	208.461	204948.518	7238262.229		127.112	10.004	0 40 20.07
IP 18	208.551	204948.588	7238262.173		R = -2.000	0.179	5°07'53.16
IP 19	208.640	204948.662	7238262.124		112.000	0.173	3 07 33.10
IP 20	212.874	204952.186	7238259.772		R = -101.000	8.467	4°48'12.06
IP 21	217.107	204955.895	7238257.725		101.000	0.407	7 40 12.00
IP 22	222.961	204961.025	7238254.892		R = 99.000	11.707	6°46'30.55
CT	228.814	204965.785	7238251.474	125°40'56.60"	11 - 33.000	11.707	0 40 00.00
TC	260.401	204991.442	7238233.049	125°40'56.60"			
IP 23	271.849	205001.044	7238226.154	125 40 30.00	R = 37.300	22.895	35°10'09.34
CT	283.297	205004.921	7238214.987	160°51'05.93"	17 - 37.300	22.033	33 10 09.54
IP 24	301.504	205010.893	7238197.787	100 01 00.00			
IP 25	308.178	205017.554	7238198.199				
IP 26	312.849	205022.294	7238198.521		R = -21.008	9.344	25°29'00.98
IP 27	317.521	205026.433	7238200.850		17 = -21.000	9.544	25 25 00.50
IP 28	319.973	205028.577	7238202.041				
IP 29	330.986	205038.167	7238207.454				
IP 30	333.256	205040.146	7238208.567				
IP 31	335.838	205040.146	7238210.045		R = 4.000	5.164	73°58'16.40
CT	338.420	205042.771	7238207.930	134°36'02.84"	17 - 4.000	J. 10 <del>4</del>	75 50 10.40
TC	340.328	205044.916	7238206.590	134°36'02.84"			
IP 32	342.345	205040.275	7238205.158	104 00 02.04	R = 11.000	4.033	21°00'30.28
CC	344.361	205047.727	7238203.300	155°36'33.12"	17 - 11.000	4.000	21 00 30.20
IP 33	354.348	205046.569	7238194.178	100 00 00.12	R = 108.000	19.974	10°35'47.62
IP 34	364.336	205052.705	7238184.452		17 - 100.000	13.314	10 3547.02
IP 35	390.114	205060.440	7238159.234				
IP 36	390.114		7238159.234		R = 21.000	18.127	40°27'26 00
		205062.443		247°20'20 00"	R = 21.000	10.12/	49°27'26.99
CC	408.241	205056.554	7238142.100	217°30'30.80"	D = 34.000	46 074	24940150 46
IP 37	416.677	205051.287	7238135.238	400040104 4011	R = -31.000	16.871	31°10'56.40
CC	425.112	205050.334	7238126.640	186°19'34.40"	D = 24.000	0.705	46907100.00
IP 38	429.475	205049.850	7238122.275	000007144.00"	R = 31.000	8.725	16°07'36.69
CC IP 39	433.838 440.533	205048.173	7238118.216	202°27'11.08"			

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
CT	447.228	205042.291	7238106.197	209°41'27.41"			
TC	458.840	205036.540	7238096.109	209°41'27.41"			
IP 40	462.809	205034.563	7238092.642		R = -31.000	7.938	14°40'17.59"
CT	466.778	205033.529	7238088.788	195°01'09.82"			
TC	506.535	205023.226	7238050.389	195°01'09.82"			
IP 41	509.987	205022.328	7238047.042		R = 31.000	6.903	12°45'31.10"
CT	513.438	205020.713	7238043.975	207°46'40.92"			
TC	605.861	204977.639	7237962.203	207°46'40.92"			
IP 42	607.000	204977.108	7237961.194		R = 16.000	2.277	8°09'19.51"
CT	608.138	204976.438	7237960.270	215°56'00.42"			
TC	642.536	204956.252	7237932.419	215°56'00.42"			
IP 43	644.326	204955.198	7237930.965		R = -19.000	3.581	10°47'59.96"
CT	646.117	204954.436	7237929.339	205°08'00.47"			
TC	667.144	204945.505	7237910.303	205°08'00.47"			
IP 44	671.425	204943.655	7237906.360		R = -19.000	8.562	25°49'06.37"
CT	675.706	204943.707	7237902.006	179°18'54.09"			
TC	685.907	204943.829	7237891.805	179°18'54.09"			
IP 45	687.303	204943.846	7237890.405		R = 16.000	2.793	10°00'00.00"
CT	688.699	204943.619	7237889.024	189°18'54.09"			
TC	741.253	204935.113	7237837.163	189°18'54.09"			
IP 46	744.949	204934.504	7237833.450		R = 16.000	7.391	26°28'05.20"
CT	748.644	204932.304	7237830.398	215°46'59.29"	11 10.000	7.001	20 20 00:20
TC	753.291	204929.586	7237826.628	215°46'59.29"			
IP 47	757.771	204926.927	7237822.937	210 10 00.20	R = 21.000	8.960	24°26'43.54"
CT	762.251	204922.978	7237820.679	240°13'42.83"			
TC	771.507	204914.944	7237816.083	240°13'42.83"			
IP 48	777.693	204909.491	7237812.964	2.0 .0 .2.00	R = -29.000	12.373	24°26'43.54"
CT	783.879	204905.818	7237807.867	215°46'59.29"	11 201000	.2.0.0	2 / 20 / 0/0 /
IP 49	792.934	204900.524	7237800.522				
IP 50	798.078	204897.373	7237796.151		R = -14.000	10.287	42°06'02.23"
IP 51	803.221	204897.966	7237790.795			. 0.20.	.2 00 02:20
TC	808.767	204898.576	7237785.283	173°40'41.80"			
IP 52	810.218	204898.737	7237783.833	110 10 11.00	R = 11.000	2.902	15°06'57.48"
CT	811.669	204898.514	7237782.390	188°47'39.28"	11.000	2.002	10 00 07 . 10
TC	831.143	204895.537	7237763.145	188°47'39.28"			
IP 53	833.614	204895.154	7237760.674	100 17 00.20	R = 13.000	4.941	21°46'29.20"
CT	836.084	204893.883	7237758.521	210°34'08.48"	10.000	4.041	21 4020.20
TC	864.097	204879.636	7237734.402	210°34'08.48"			
IP 54	867.838	204877.714	7237731.148	210 04 00.40	R = -21.712	7.483	19°44'45.15"
CT	871.579	204877.005	7237727.436	190°49'23.33"	77.772	7.400	10 44 40.10
TC	921.295	204867.669	7237678.605	190°49'23.33"			
IP 55	923.590	204867.128	7237675.776	130 43 20.00	R = -3.000	4.590	87°39'32.00"
CT	925.885	204869.933	7237675.170	103°09'51.33"	17 - 5.000	4.550	07 00 02.00
TC	946.401	204889.909	7237673.120	103°09'51.33"			
IP 56	953.532	204898.332	7237670.446	100 0901.00	R = 10.000	14.264	81°43'29.26"
		204898.332		104952120 50"	N - 10.000	14.204	01 43 29.20
CT	960.664		7237659.858	184°53'20.59"			
TC	973.347	204896.514	7237647.222	184°53'20.59"	D = 40 000	45 405	00040140 00"
IP 57	981.089	204895.681	7237637.478	07000004 50"	R = 10.000	15.485	88°43'10.99"
CT	988.832	204885.921	7237638.094	273°36'31.58"			
IP 58	1024.831	204849.993	7237640.360	273°36'31.58"			

17.11.2023 ISSUE FOR CONSTRUCTION No. Revision Date

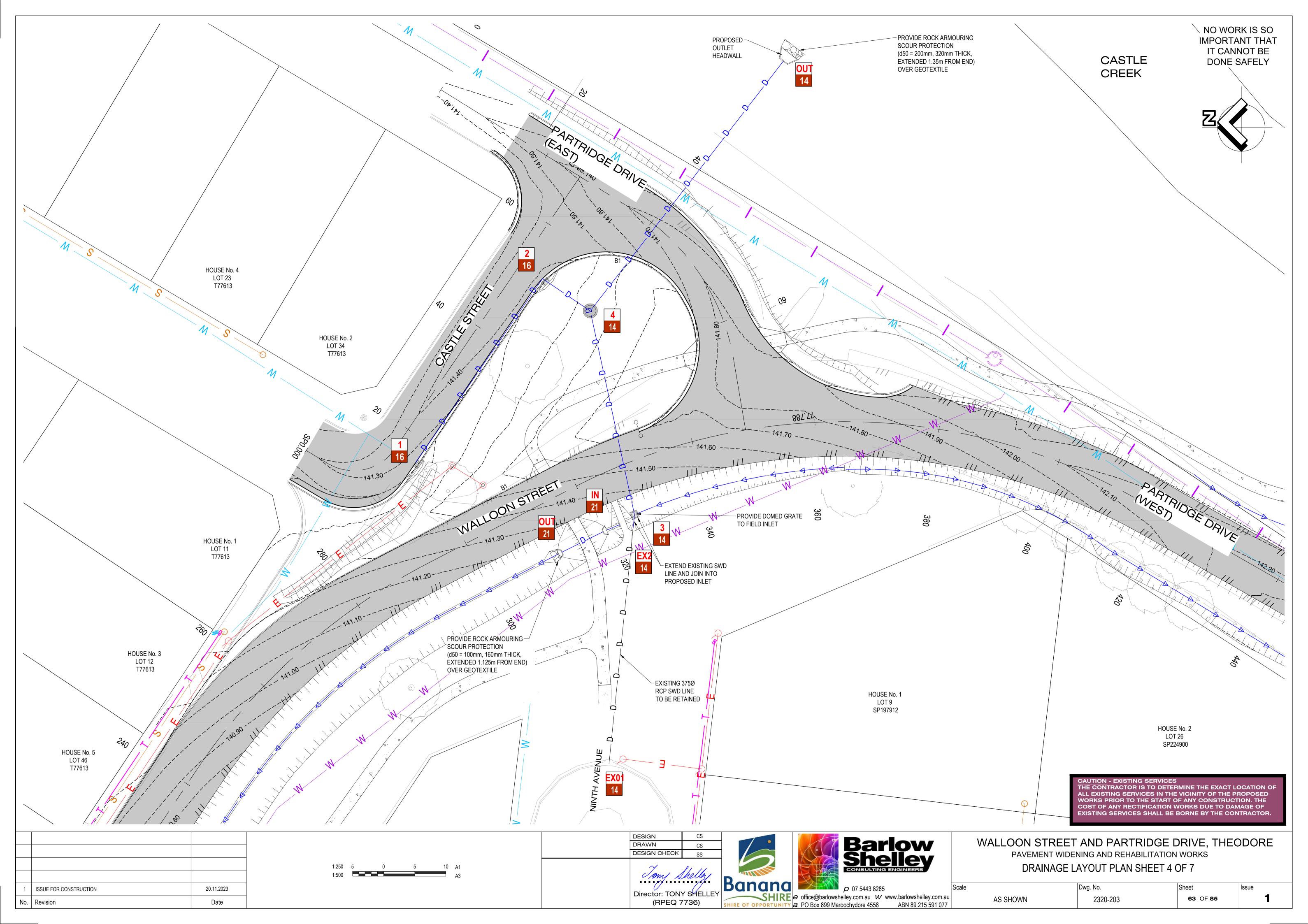
DESIGN DRAWN DESIGN CHECK

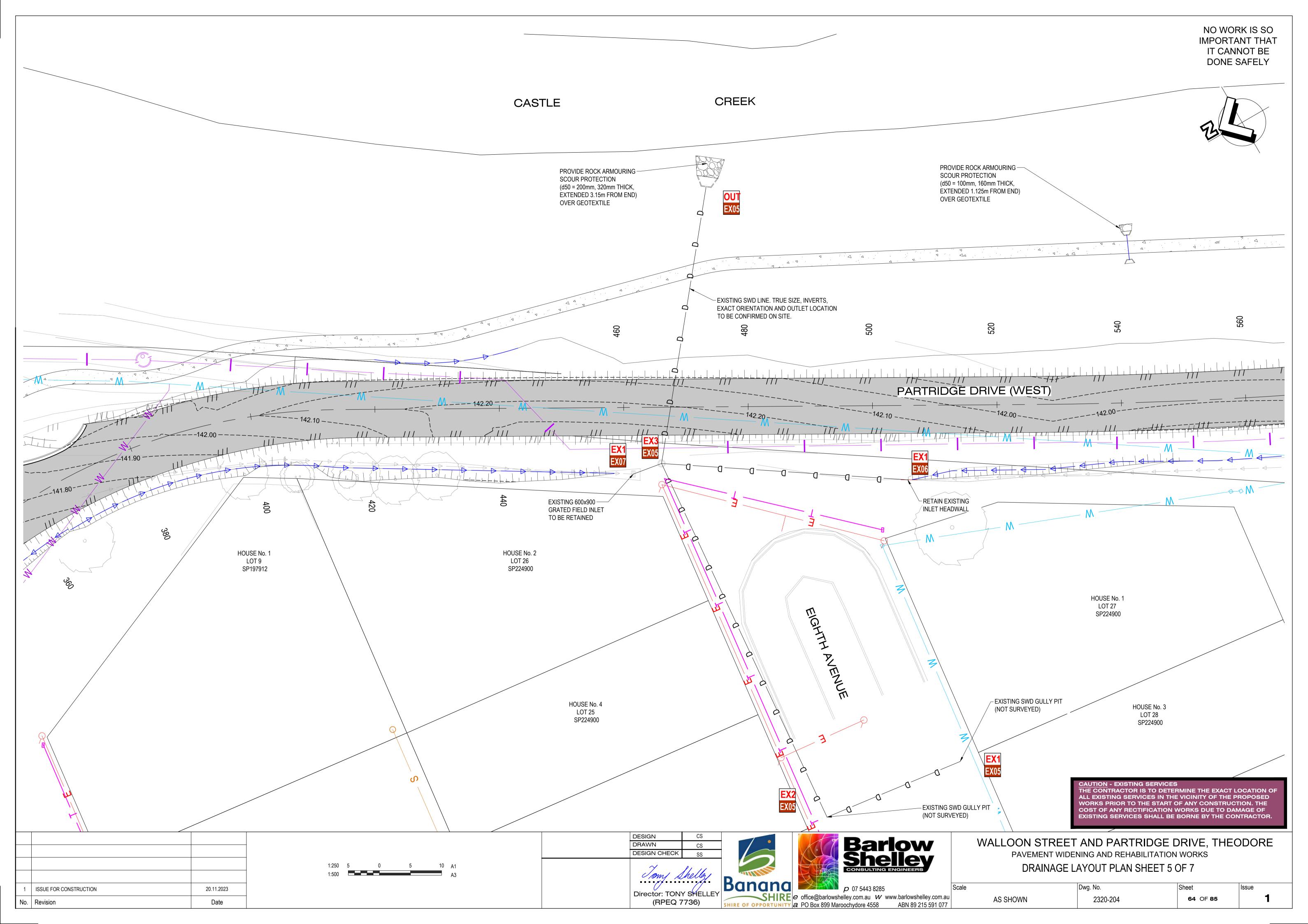


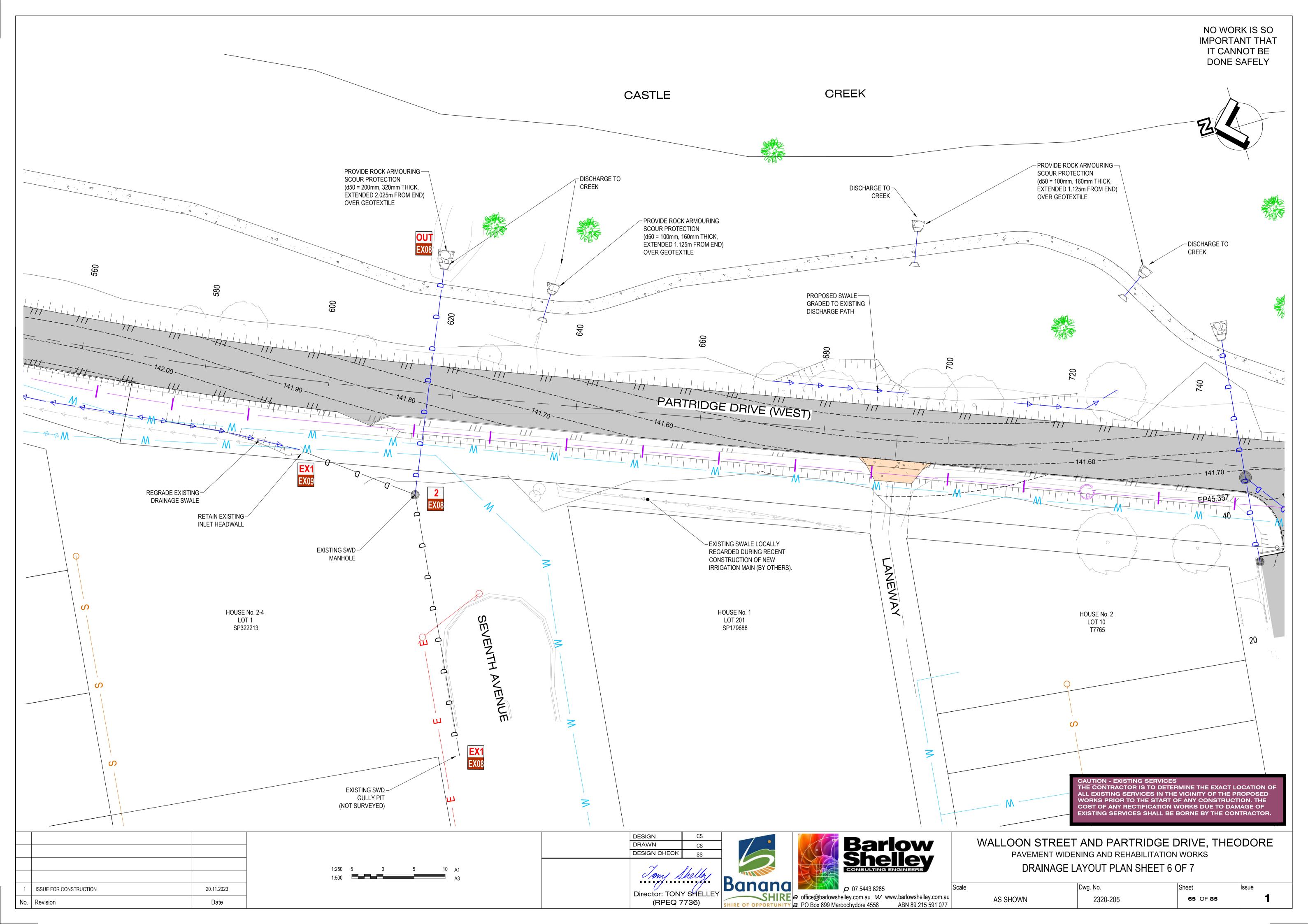


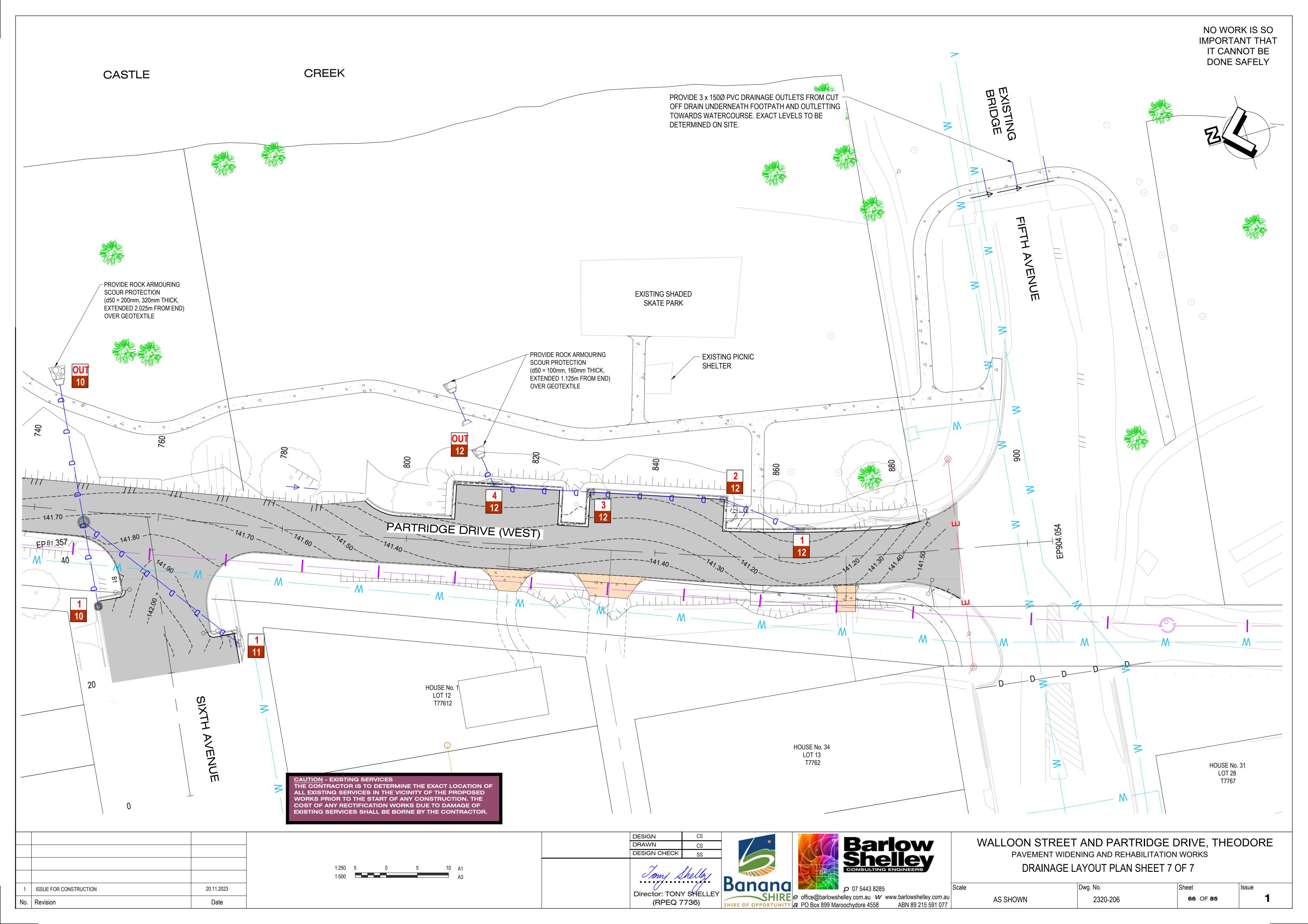
WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS

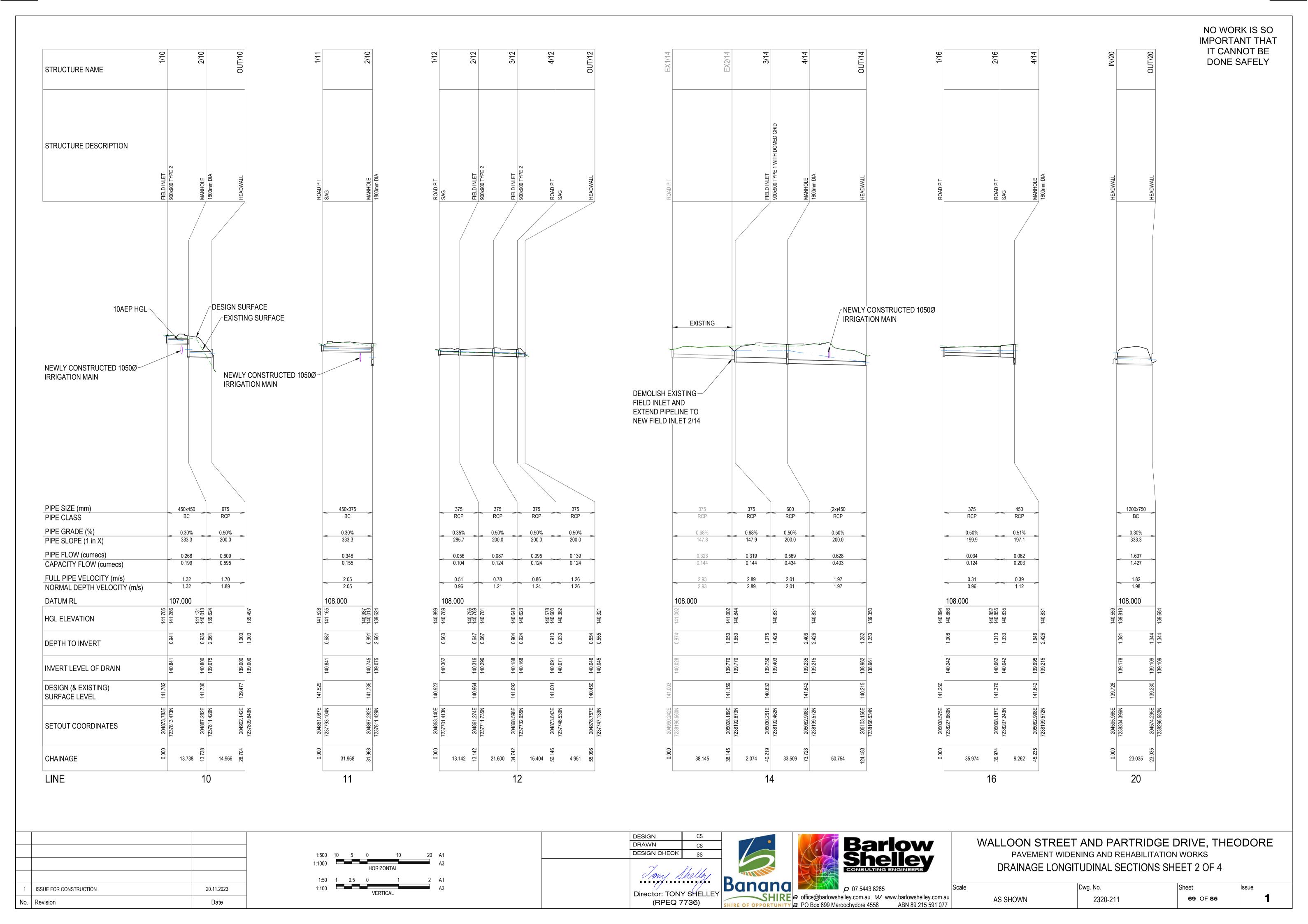
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AS SHOWN	2320-157	55 OF 85	1

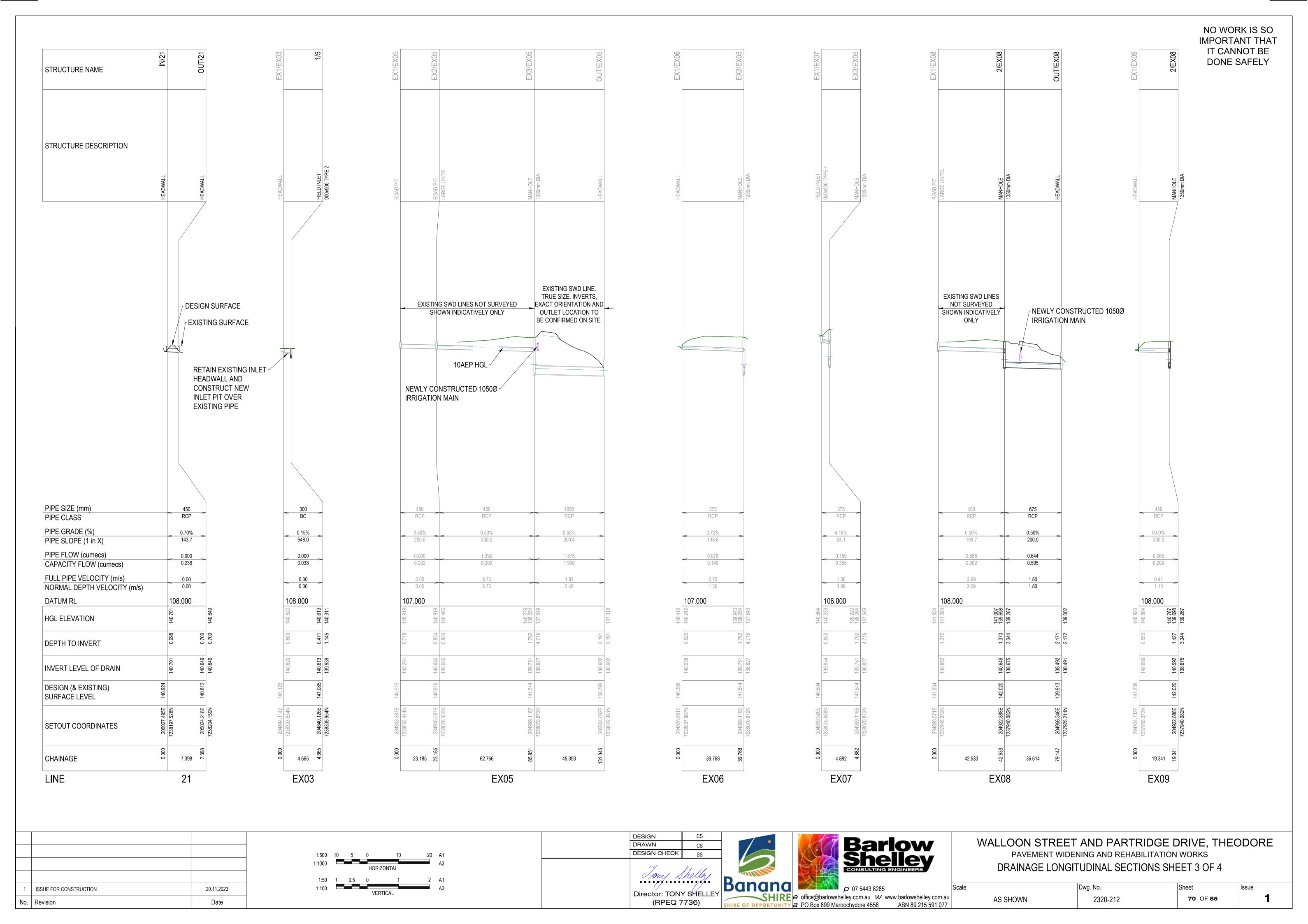












| DESIGN SURFACE | DESI

1/10 to 2/10 450x450(BC)
IL 140.800

MH2/10 - 1800DIA

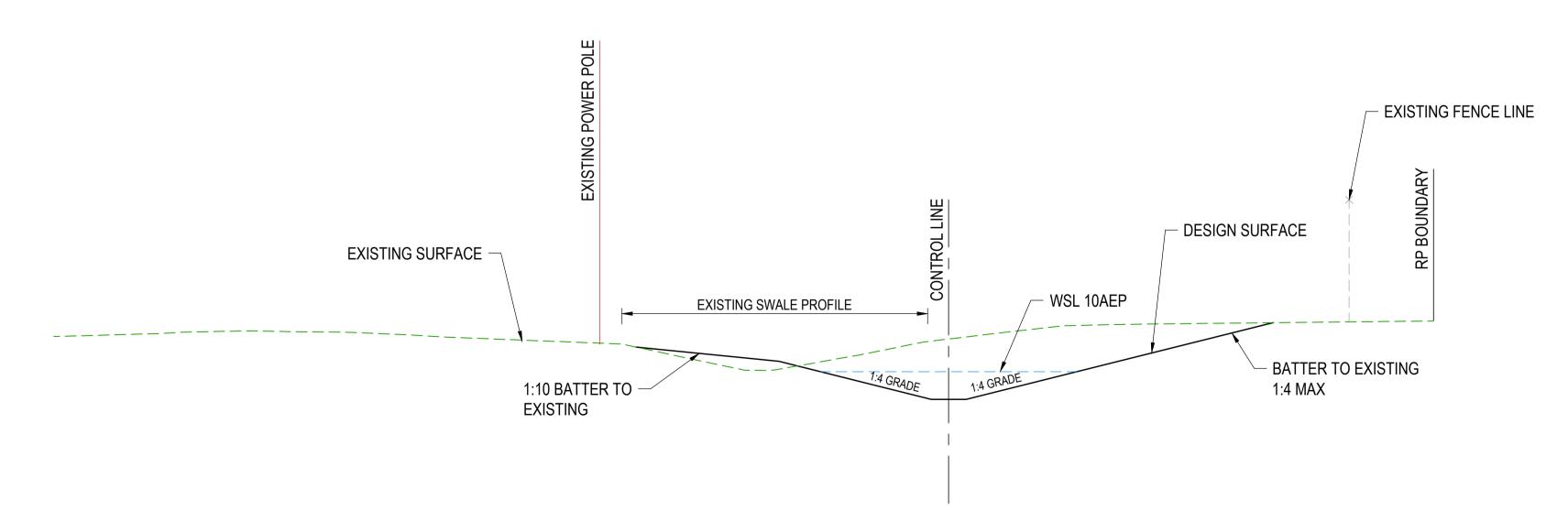
SCALE 1:100

1:20 0.2 0 0.2 0.4 0.6 0.8 1 A1

NO WORK IS SO IMPORTANT THAT

A1 SCALE: H 1:500, V 1:50

LONGITUDINAL SECTION "ELEVENTH AVENUE DRAINAGE SWALE"



# **TYPICAL SECTION - ELEVENTH AVENUE DRAINAGE SWALE**

SCALE 1:100

DESIGN Barlow Shelley WALLOON STREET AND PARTRIDGE DRIVE, THEODORE DRAWN PAVEMENT WIDENING AND REHABILITATION WORKS DRAINAGE LONGITUDINAL SECTIONS SHEET 4 OF 4 DESIGN CHECK AND STRUCTURE DETAILS Dwg. No. Issue ISSUE FOR CONSTRUCTION 20.11.2023 Director: TONY SHELLEY SHIRE & office@barlowshelley.com.au www.barlowshelley.com.au PO Box 899 Maroochydore 4558 ABN 89 215 591 077 71 OF 85 AS SHOWN 2320-213 (RPEQ 7736) No. Revision Date

NO WORK IS SO IMPORTANT THAT IT CANNOT BE DONE SAFELY

	Node Type	Setout Setout Setout Easting Northing RL	t Grate	Road Name	Road Chainage	Road e Offset	Catch ID	Time Tc	Intensity	Runoff C	Area A	Full CA	Full Sum CA	Full Qc=CIA	Partial CA	Partial Sum CA	Partial Qc=CIA	-	Approach Flow Qa		Flooded Depth	d Flooded Width	Flooded Ro Vel.Dep Gra		oad F	Max Pond Depth	Choke Factor	Inlet Curve Name	Inlet Flow Qg	Bypass Flow Qb	Bypass Node
(-)	(-)	(m) (m) (m)	(m)	(-)	(m)	(m)	(-)	(min)	(mm/hr	) (-)	(ha)	(ha)	(ha)	(L/s)	(ha)	(ha)	(L/s)	(L/s)	(L/s)	(L/s)	(m)	(m)	(sq.m/s) (%)	(%	%) (	(m)	(-)	(-)	(L/s)	(L/s)	(-)
1/1	HW inlet	204876.9 7238327 140.04	141.05				1P	15	129	0.75	0.7862	0.5896	1.651	591.6	0.1965	1.2579	660.4		660.4	134.2	0.187	2.57	0.43 2.5	3			0.8		660.4		LOST
2/1	RD PIT L	204861.6 7238339 140.72	2 140.75	ROAD 01	93.33	5.13	1I 1P	5 15	189 129	0.9 0.75	1.1793 0.0484	1.0614 0.0363	0.1017	36.4	1.0614 0.0121	0.0775	40.7		40.7	2357.6	0.075	2.1	0.04 0.8	3			0.8	0.5-1G,3.3X	32.5	8.1	LOST
3/1	MH2100	204841.9 7238344 141.21	141.21				11	5	189	0.9	0.0726	0.0654			0.0654																-
4/1	SAG RD PIT	204807.7 7238350 141	141	ROAD 01	36.45	5.86	1P 1I	15 5	129 189	0.75 0.9	0.1444 0.2165	0.1083 0.1949	0.3031	108.6	0.0361 0.1949	0.231	121.3		121.3	139	0.136				(	0.15	0.5	SAG	121.3		-
6/1	MH2100 MH2100 HW	204780.7 7238352 141.4 204760.5 7238353 141.44 204755.6 7238353 139.56	141.44																												-
	SAG RD PIT	204757.5 7238335 140.95		THE BOULEVARD	15.1	-11.63	1P	15	129	0.75	0.1759	0.1319	0.3694	132.4	0.044	0.2815	147.8		147.8	139	0.159				(	0.15	0.5	SAG	147.8		-
2/2	MH1050	204760.2 7238349 141.41	141.41				11	5	189	0.9	0.2639	0.2375			0.2375																-
1/3	SAG RD PIT	204778 7238321 140.87	140.87	THE BOULEVARD	3.62	10.44	1P	15	129	0.75	0.1444	0.1083	0.3032	108.6	0.0361	0.231	121.3		121.3	139	0.136				(	0.15	0.5	SAG	121.3		_
1/5	SF1	204840.1 7238336 141.08	3 141.08	ELEVENTU			11	5	189	0.9	0.2165	0.1949			0.1949				0	31.8	0				(	0.075	0.5	SAG	0		2/1
1/6	RD PIT	204862.9 7238390 140.88	3 140.88	ELEVENTH AVE	4.45	4.78	1P	15	129	0.75	0.0432	0.0324	0.0907	32.5	0.0108	0.0691	36.3		36.3	400.6	0.093	2.27	0.04 2	3.	.9		0.8	2-8G,3.3X	27.1	9.2	LOST
2/6	SAG RD PIT	204866.3 7238381 140.88	3 140.88	ELEVENTH AVE	4.45	-4.97	1P	15	189 129 189	0.9 0.75 0.9	0.0648 0.0668 0.1002	0.0583 0.0501 0.0902	0.1403	50.3	0.0583 0.0167 0.0902	0.1069	56.1		56.1	139	0.088				(	0.15	0.5	SAG	56.1		-
3/6	MH1050	204848.8 7238375 141.08	3 141.08	ELEVENTH AVE	22.64	3.14	11	J	103	0.3	0.1002	0.0902			0.0902																_
1/7	SAG RD PIT	204784.2 7238374 141.37	7 141.37	THE BOULEVARD	57.1	10.23	1P	15	129	0.75	0.0185	0.0139	0.0388	13.9	0.0046	0.0296	15.5		15.5	139	0.031				(	0.15	0.5	SAG	15.5		-
1/10	SF1	204873.8 7237813 141.78	3 141.78	SIXTH AVE	32.54	-10.06	1I 1P	5 15 5	189 129 189	0.9 0.75	0.0277 0.3191 0.4786	0.0249 0.2393 0.4308	0.6701	240.1	0.0249 0.0798 0.4308	0.5105	268		268	87	0.374					0.15	0.5	SAG	268		-
	MH1800	204887.3 7237811 141.74		CIVITIL AVIE	45.05	10.05	11	3	189	0.9	0.4780	0.4308			0.4308																-
OUT/10 1/11	SAG RD PIT	204902.1 7237810 139.48 204861.1 7237793 141.53		SIXTH AVE	45.35 22.53	-18.95 11.76	1P	15	129	0.75	0.4124	0.3093	0.8659	310.3		0.6598	346.4		346.4	139	0.225				(	0.15	0.5	SAG	346.4		-
1/12	SAG RD PIT	204853.1 7237701 140.92	2 140.92	ROAD 01	863.46	-4.5	1I 1P	5 15	189 129	0.9	0.6185 0.0672	0.5567 0.0504	0.1412	50.6	0.5567 0.0168	0.1076	56.5		56.5	139	0.088				(	0.15	0.5	SAG	56.5		-
2/12	SF1	204861.3 7237712 140.96	5 140.96	ROAD 01	850.82	-9.15	1I 1P	5 15	189 129	0.9 0.75	0.1009 0.0361	0.0908	0.0759	27.2	0.0908	0.0578	30.3		30.3	87	0.073				(	0.15	0.5	SAG	30.3		-
3/12	SF1	204868.6 7237732 141.09	141.09	ROAD 01	829.07	-9.15	1I 1P	5 15	189 129	0.9 0.75	0.0542	0.0488	0.0233	8.4	0.0488 0.0028	0.0178	9.3		9.3	87	0.028				(	0.15	0.5	SAG	9.3		-
4/12	SAG RD PIT	204873.8 7237747 141	141	ROAD 01	813.67	-9.15	1I 1P	5 15	189 129 189	0.9	0.0167	0.015	0.1116	40	0.015 0.0133 0.0717	0.085	44.6		44.6	139	0.077				(	0.15	0.5	SAG	44.6		-
OUT/12 1/14		204878.8 7237747 140.04					10	3		0.9	0.0797	0.0717	0.0004	200.7		0.6150	222.2		222.2										222.2		-
	RD PIT	204990.2 7238197 141	141				11	5	129 189	0.75 0.9	0.3849 0.5774	0.2887 0.5197	0.8084	289.7	0.0962	0.6159	323.3		323.3										323.3		-
· ·	TP SAG FI SQR	205028.2 7238193 141.16 205030.3 7238192 140.83																250	250										250		-
	MH1800 HW OUT	205063 7238200 141.64 205103.2 7238169 140.21	141.64																												-
	RD PIT	205038.6 7238228 141.25		WALLOON STREET	16.22	4	1P	15	129 189	0.75	0.0556 0.0835	0.0417 0.0751	0.1168	41.9	0.0139 0.0751	0.089	46.7		46.7	232.1	0.084	2.43	0.04 0.5	3			0.8	0.5G,3.3X	33.9	12.8	LOST
2/16	SAG RD PIT	205068.2 7238207 141.38	3 141.38	WALLOON STREET	52.19	4.24	1P	15	129	0.75	0.0335	0.026	0.0727	26	0.0086	0.0554	29.1		29.1	139	0.058					0.15	0.5	SAG	29.1		_
IN/20		204596 7238304 140.56		*			11	5	189	0.9	0.0519	0.0467		1	0.0467			1637	1637								-	_	1637		
OUT/20	HW OUT	204574.3 7238297 140.45	140.45															100/	0										2037		-
IN/21 OUT/21	HW OUT	205027.5 7238198 141.4 205024.2 7238204 141.35	141.35																U										U		-
1/EX03 1/EX05	HW inlet	204844.1 7238334 140.62 204933.6 7238053 140.92																	0										0		-
2/EX05		204936.6 7238076 140.92					1P	20	113	0.75			3.8092	1195.7		2.993	1391.7		1391.7										1391.7		-
3/EX05 OUT/EX0	MH1200	204999.1 7238071 141.54	141.54				11	8	167.4	0.9	2.7209	2.4488			2.4488																-
5 1/EX06	HW OUT	205034.1 7238042 138.79 204976.9 7238038 140.37					1P	15	129	0.75	0.0924	0.0693	0.194	69.5	0.0231	0.1478	77.6		77.6	78856.8	0.219	0.27	0.57						77.6		-
1/EX07		204999.9 7238076 140.8					1I 1P	5	189 129	0.9 0.75	0.1386 0.1783	0.1247 0.1337	0.3745	134.2	0.1247 0.0446		149.8				0.215					0.6	0.5	SAG	149.8		_
	RD PIT L	204880.7 7237945 141.93					1I 1P	5 15	189 129	0.75	0.2675 0.6994	0.2407 0.5246		526.3	0.2407 0.1749		587.5		587.5										587.5		-
	MH1350	204922.9 7237940 142.02	2 142.02				11	5	189	0.9	1.0491	0.9442			0.9442																-
OUT/EX0 8	HW OUT	204956.4 7237925 140.66	140.66																												_
1/EX09		204934.7 7237955 141.24					1P	15	129	0.75	0.0769 0.1154	0.0577 0.1038	0.1615	57.9	0.0192 0.1038	0.1231	64.6		64.6								_		64.6		-
	<u> </u>						11	<u> </u> 3	189	0.9	<sub> </sub> 0.1154	<sub> </sub> 0.1038		1	<sub> </sub> 0.1038				<u> </u>	1								1	1		

1	ISSUE FOR CONSTRUCTION	20.11.2023
No.	Revision	Date

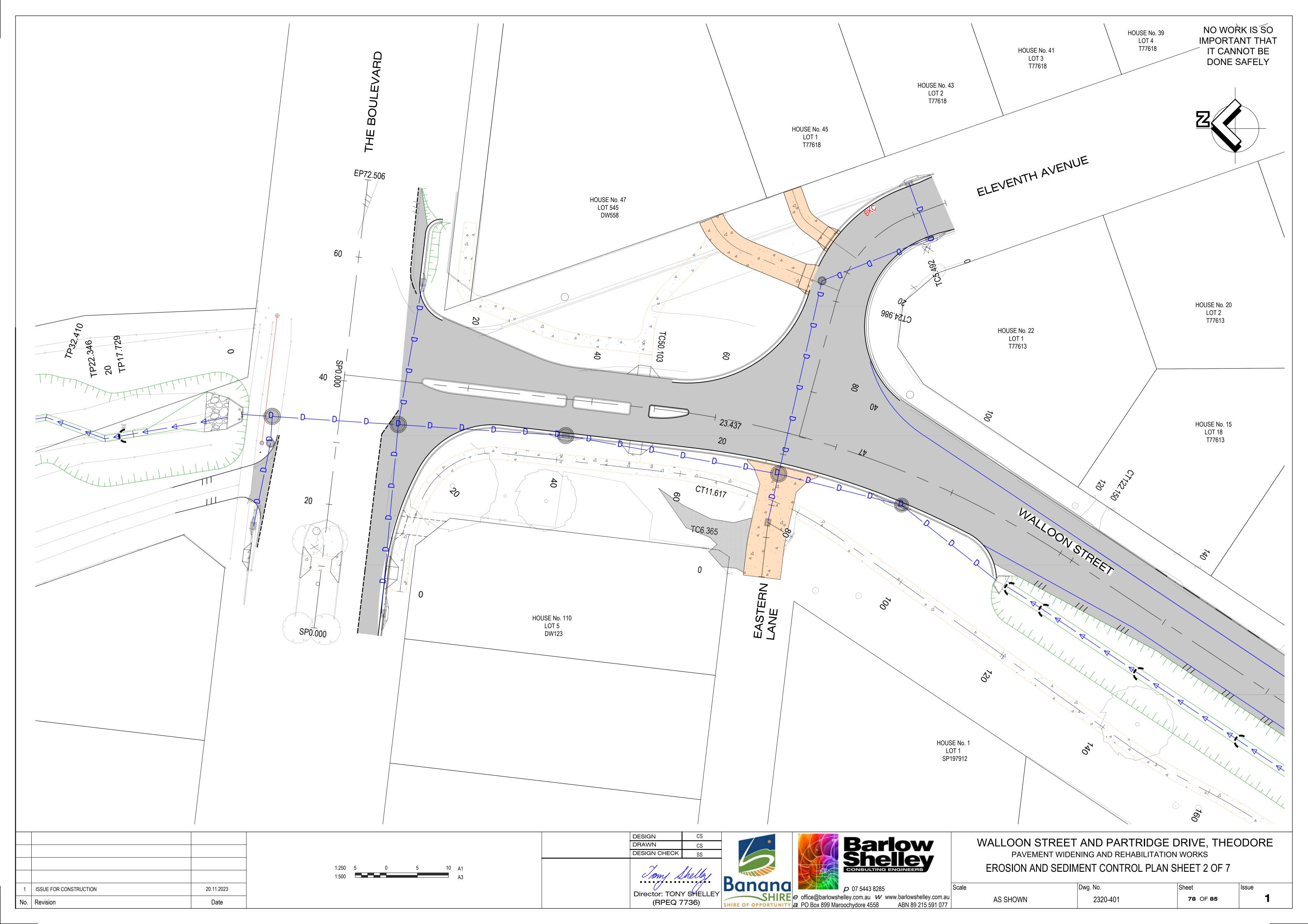
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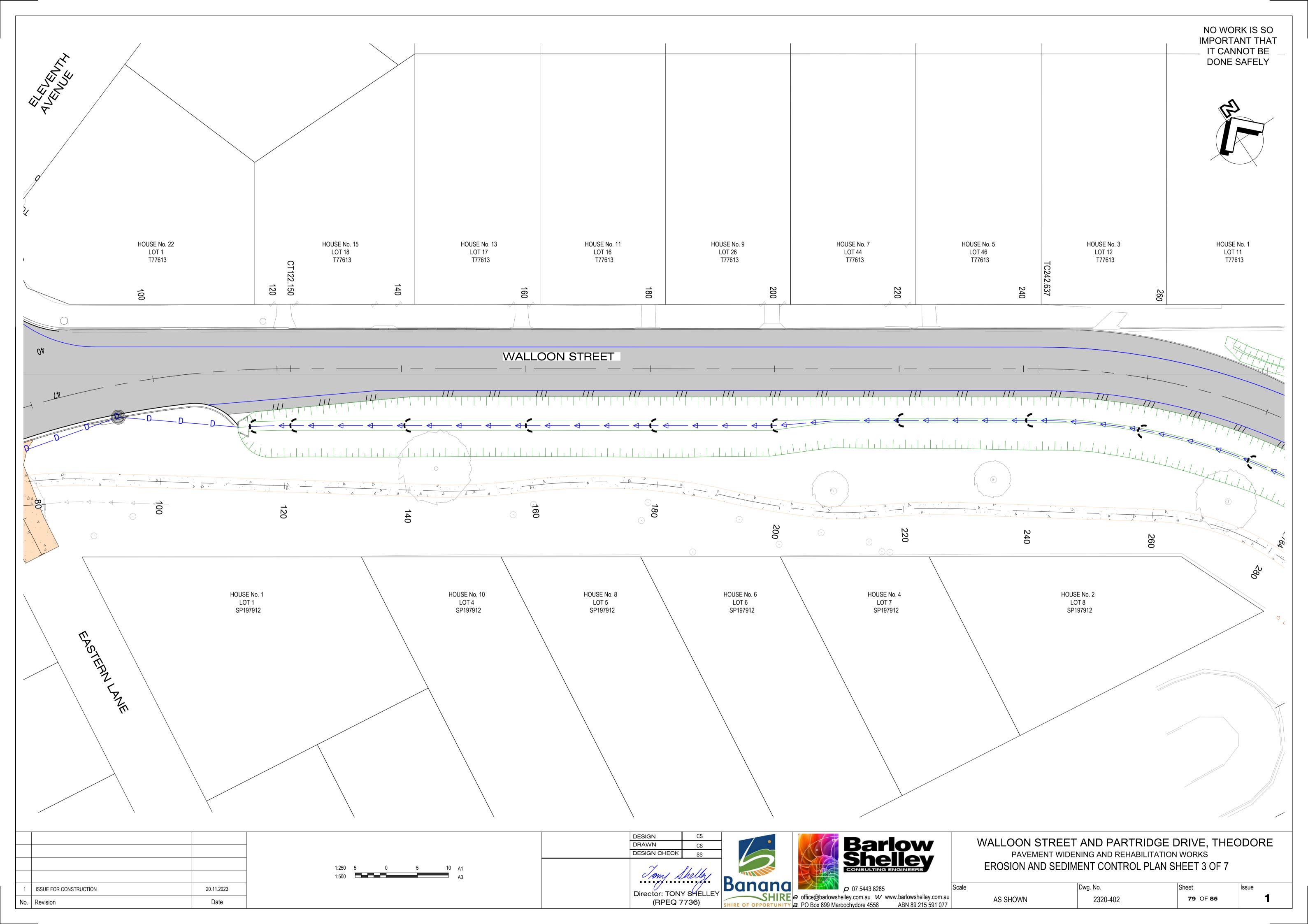


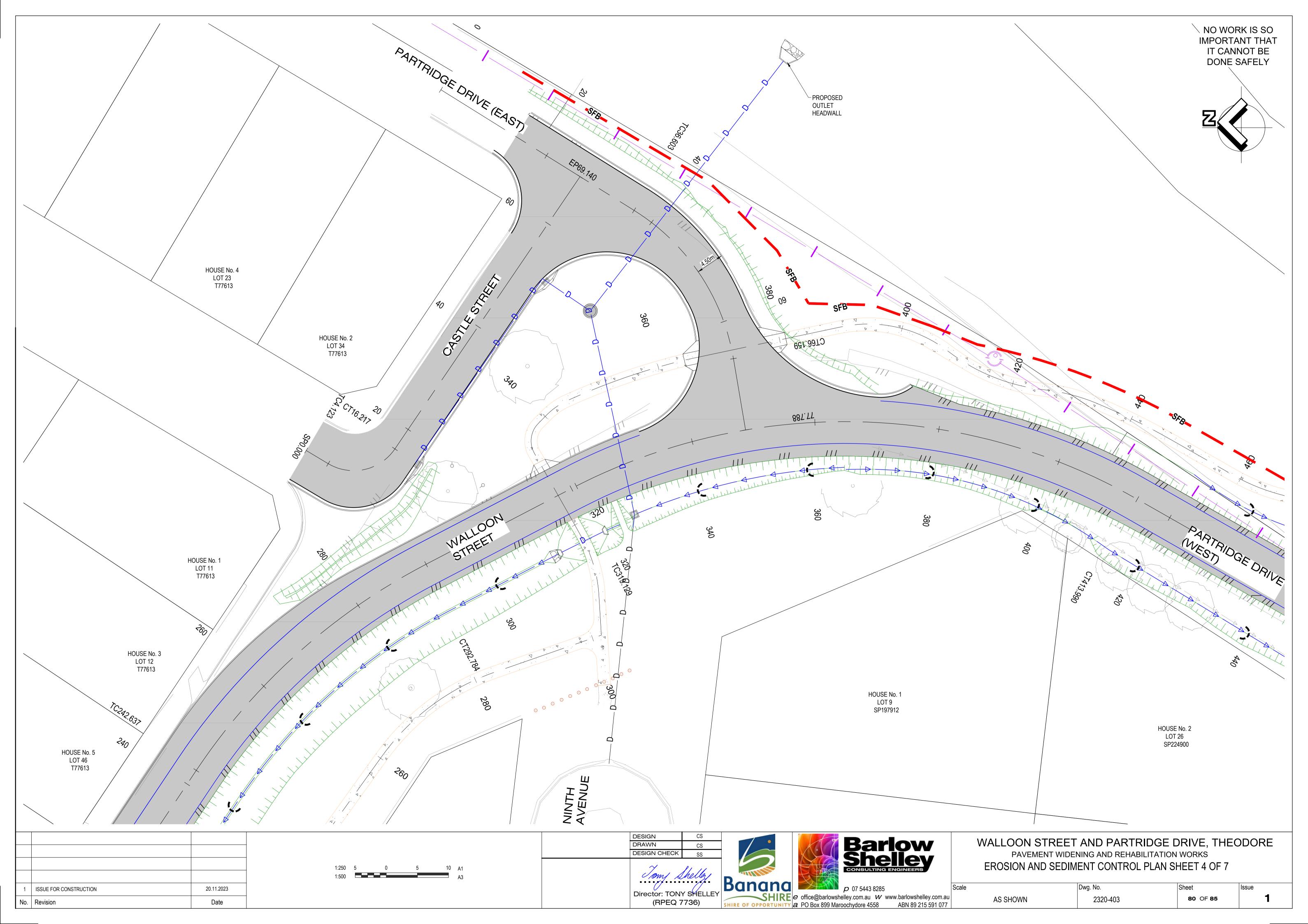


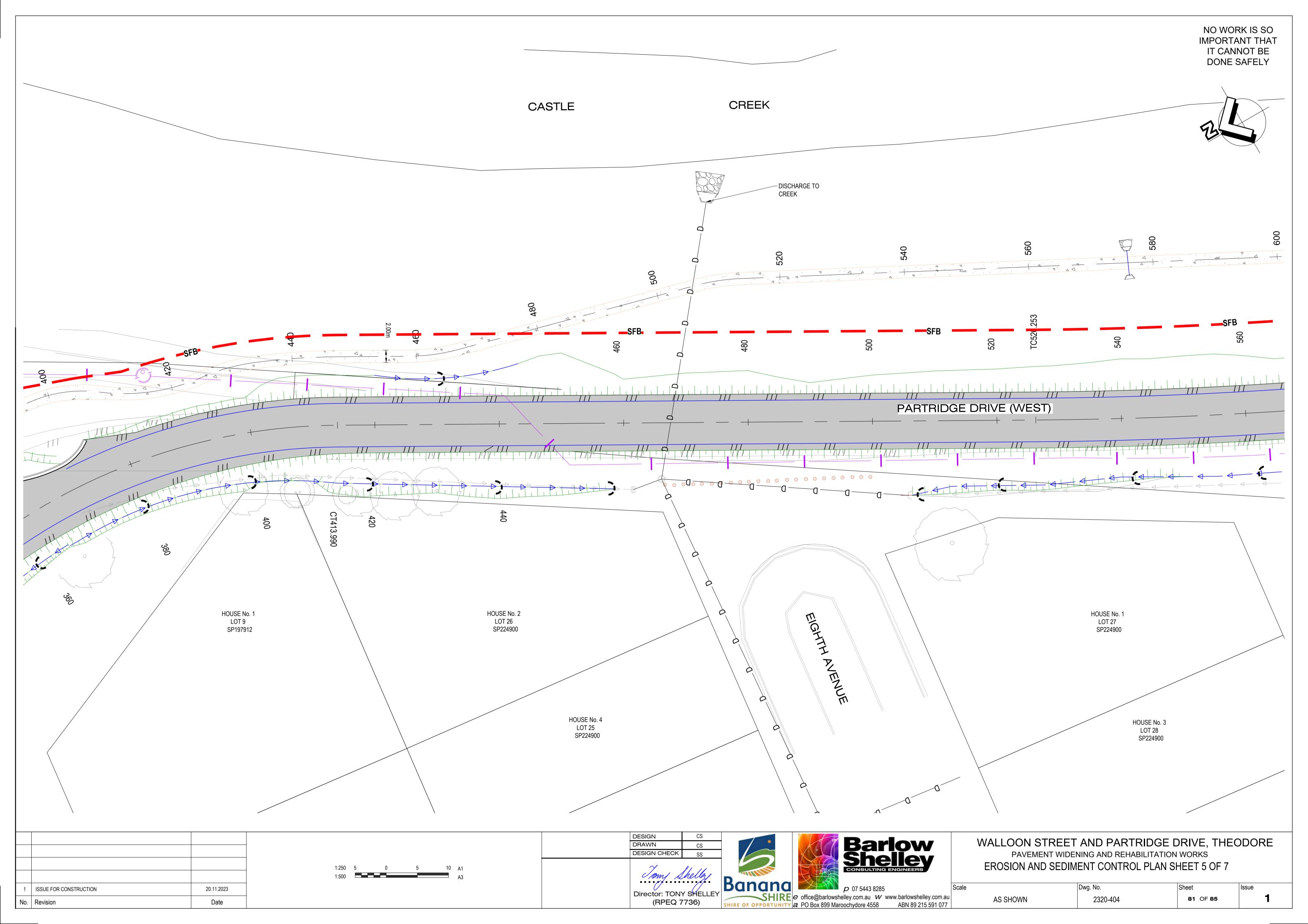
WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS STORMWATER CALCULATIONS TABLE - 10% AEP

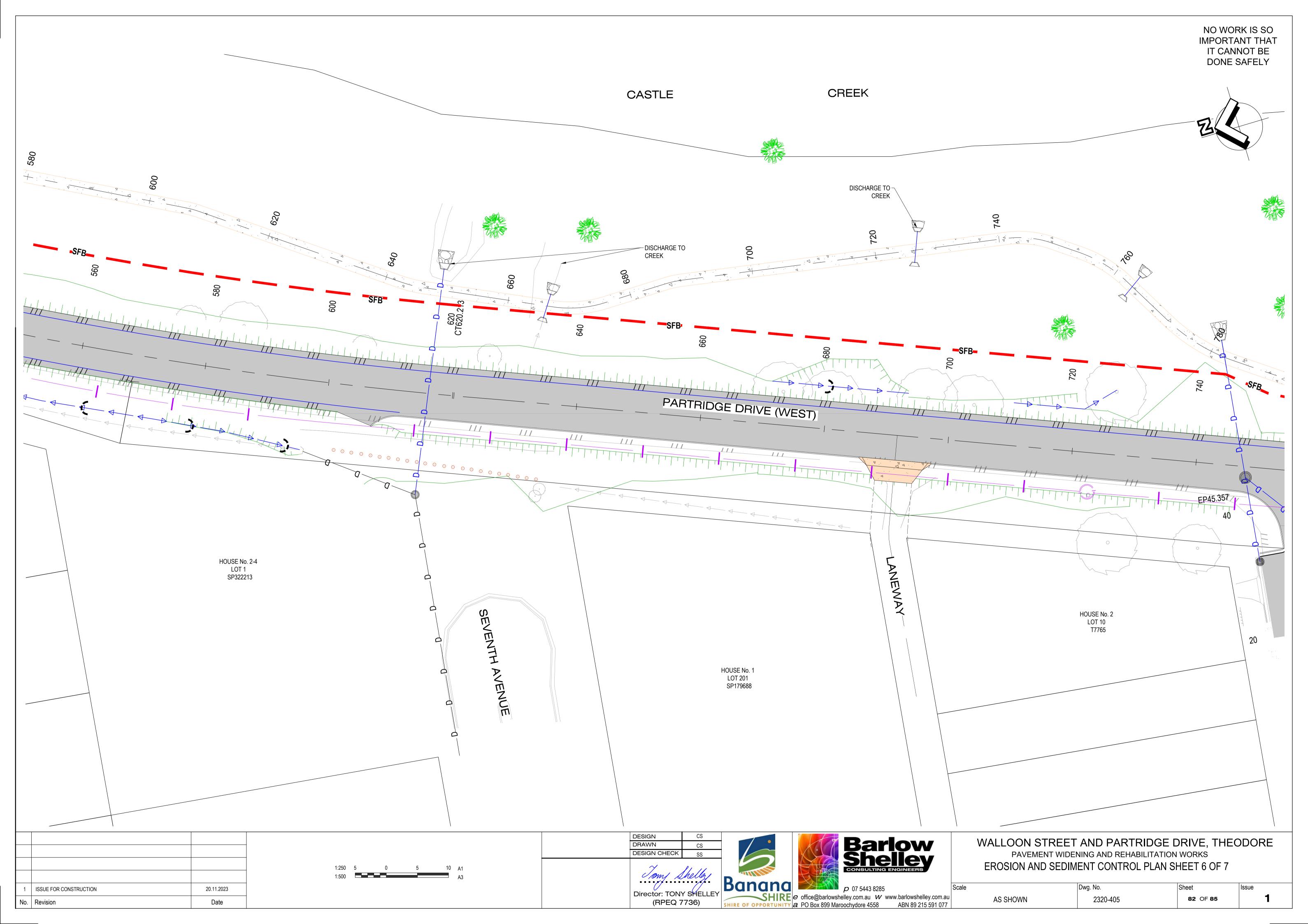
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AS SHOWN	2320-215	<b>72</b> OF <b>85</b>	1

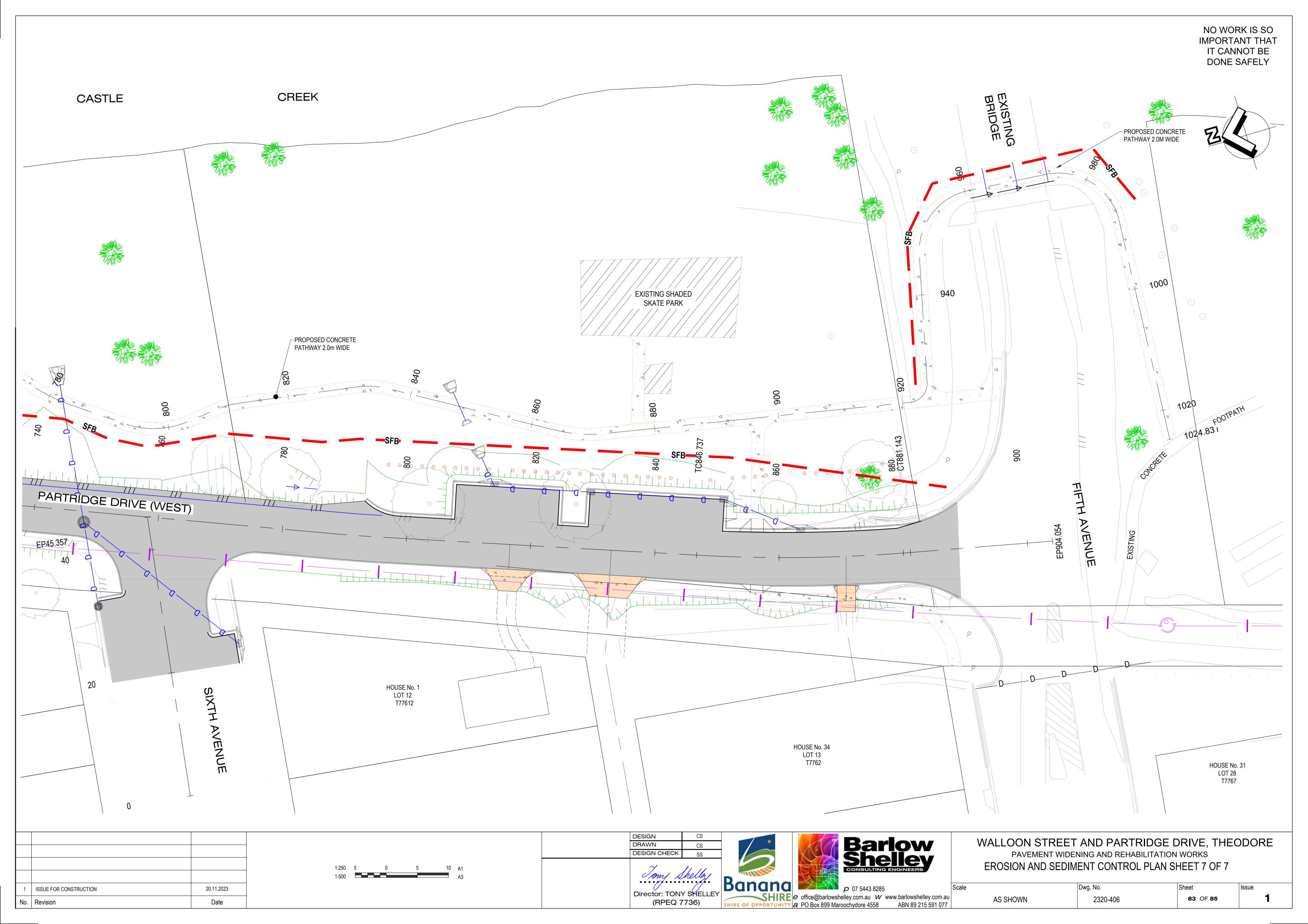












#### GENERAL:

- a. TEMPORARY DRAINAGE CONTROL. FLOW SHOULD BE DIVERTED AROUND THE WORK SITE WHERE POSSIBLE. b. ALL DRAINAGE, EROSION AND SEDIMENT CONTROLS TO BE INSTALLED AND BE OPERATIONAL BEFORE COMMENCING UP-SLOPE EARTHWORKS.
- c. ALL SEDIMENT & EROSION CONTROL DEVICES MUST BE REGULARLY INSPECTED AND MAINTAINED BY THE CONTRACTOR, INSPECTIONS SHOULD OCCUR ON A WEEKLY BASIS (MINIMUM), ALONG WITH BEFORE AND AFTER SIGNIFICANT RUNOFF PRODUCING STORMS.
- d. ALL DISTURBED LAND MUST BE RENDERED EROSION-PROOF BY THE ESTABLISHMENT OF 80% EFFECTIVE GROUND COVER WITHIN 28 DAYS OF FINAL EARTHWORKS TRIM.
- e. IN AREAS WHERE RUNOFF TURBIDITY IS TO BE CONTROLLED, EXPOSED SURFACES TO BE EITHER MULCHED, COVERED WITH EROSION CONTROL BLANKETS OR TURFED IF EARTHWORKS ARE EXPECTED TO BE DELAYED FOR MORE THAN 14 DAYS.
- f. STRAW BALE SEDIMENT TRAPS ARE A SECONDARY OPTION WHICH GENERALLY SHOULD NOT BE USED IF OTHER OPTIONS ARE AVAILABLE.

### SEDIMENT CONTROL FENCE:

- a. NOT TO BE LOCATED IN AREAS OF CONCENTRATED FLOW.
- b. NORMALLY LOCATED ALONG THE CONTOUR WITH A MAXIMUM CATCHMENT AREA 0.6 HA PER 100m LENGTH OF
- c. WOVEN FABRICS ARE PREFERRED, NON-WOVEN FABRICS MAY BE USED ON SMALL WORK SITES, I.E. OPERATIONAL PERIOD LESS THAN 6 MONTHS OR ON SITES WHERE SIGNIFICANT SEDIMENT RUNOFF IS NOT EXPECTED.
- d. WHERE FENCES NEED TO BE LOCATED ACROSS THE CONTOUR REFER IPEAW STANDARD DRAWING D-0040 FOR DETAILS
- e. FENCES ARE REQUIRED 2m MIN FROM TOE OF CUT OR FILL BATTERS. WHERE NOT PRACTICAL ONE FENCE CAN BE AT THE TOE WITH A SECOND FENCE 1M MIN AWAY. FENCE SHOULD NOT BE LOCATED PARALLEL WITH TOE IF CONCENTRATION OF FLOW WILL OCCUR BEHIND THE FENCE.
- TEMPORARY CONSTRUCTION ENTRY/EXIT SEDIMENT TRAP:
  - a. ADJACENT STORMWATER RUNOFF TO BE DIVERTED AWAY FROM ENTRY/EXIT.
  - b. WHEEL WASH OR SPRAY UNIT MAY BE REQUIRED DURING WET WEATHER.
- SAFETY ISSUES MUST BE CONSIDERED AT ALL TIMES. INCORPORATE TRAFFIC CONTROL DEVICES
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL SEDIMENT AND EROSION CONTROL MEASURES HAVE BEEN ADDRESSED AS STIPULATED IN THE ENVIRONMENTAL MANAGEMENT PLAN. ADDITIONAL OR DIFFERENT SEDIMENT & EROSION CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION PHASE TO COMPLY WITH THE ABOVE.
- TEMPORARY STOCKPILES TO HAVE 1:6 SIDE BATTERS (MAXIMUM) AND BE SHAPED TO ENSURE RUN-OFF IS TREATED AND MANAGED TO THE SATISFACTION OF THE SUPERINTENDENT. ALL EXPOSED STOCKPILE SURFACES TO BE GRASS SEEDED. SEDIMENT FENCES AND CUT-OFF DRAINS MAY BE REQUIRED.

# **COIR LOGS**

# **MATERIALS**

#### FIBRE ROLLS:

TYPICALLY 200 TO 250mm JUTE. COIR OR STRAW ROLL TIED WITH SYNTHETIC OR DIODEGRADABLE MESH.

#### STAKES: MINIMUM 25 x 25mm TIMBER STAKES.

### INSTALLATION

- REFER TO APPROVED PLANS FOR LOCATION AND INSTALLATION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION. DIMENSIONS OR METHOD OF INSTALLATION CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
- WHEN PLACED ACROSS NON-VEGETATED OF NEWLY SEEDED SLOPES. THE ROLLS MUST BE PLACED ALONG THE CONTOUR.
- IF PLACED ON OPEN OR LOOSE SOIL, ENSURE THE FIBRE ROLLS ARE TRENCHED 75 TO 125mm IN SANDY SOILS AND 50 TO 75mm IN CLAYEY SOILS.
- ENSURE THE OUTER MOST ENDS OF THE FIBRE ROLL ARE TURNED UP THE SLOPE TO ALLOW WATER TO ADEQUATELY POND UP-SLOPE OF THE ROLL. AND THE MINIMISE FLOW BYPASSING.
- WHEN PLACED ACROSS THE INVERT OF MINOR DRAINS, ENSURE THE SOCKS ARE PLACED SUCH THAT:

(i) THE CREST OF THE DOWNSTREAM ROLLS IS LEVEL WITH THE CHANNEL INVERT AT THE IMMEDIATE UPSTREAM SOCK (IF ANY);

(II) EACH ROLL EXTENDS UP THE CHANNEL BANKS SUCH THAT THE CREST OF THE FIBRE ROLL AT ITS LOWEST POINT IS LOWER THAN THE GROUND LEVEL AT EITHER END OF THE ROLL.

- ENSURE THE ANCHORING STAKES ARE DRIVEN INTO THE END OF EACH ROLL AND ALONG THE LENGTH OF EACH ROLL AT A SPACING NOT EXCEEDING 1.2M OR SIX TIMES THE ROLL DIAMETER, WHICHEVER IS THE LESSER. A MAXIMUM STAKE SPACING OF 0.3M APPLIES WHEN USED TO FORM CHECK DAMS.
- ADJOINING ROLL MUST BE OVERLAP AT LEAST 450MM, NOT ABUTTED.

### **MAINTENANCE**

- INSPECT ALL FIBRE ROLLS PRIOR TO FORECAST RAIN, DAILY DURING EXTENDED PERIODS OF RAINFALL, AFTER SIGNIFICANT RUNOFF PRODUCING STORMS OR OTHERWISE AT WEEKLY INTERVALS.
- REPAIR OR REPLACE DAMAGED FIBRE ROLLS.
- REMOVE COLLECTED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

### **REMOVAL**

- ALL EXCESSIVE SEDIMENT TRAPPED BY THE ROLLS MUST BE REMOVED FROM THE DRAIN OR SLOPE IF SUCH SEDIMENT IS LIKELY TO BE WASHED AWAY BY EXPECTED FLOWS.
- DISPOSE OF COLLECTED SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.
- THE BIODEGRADABLE CONTENT OF THE STRAW ROLLS MAY NOT NECESSARILY NEED TO BE REMOVED FROM THE SITE.
- ALL SYNTHETIC (PLASTIC) MESH OR OTHER NON READILY BIODEGRADABLE MATERIAL MUST BE REMOVED FROM THE SITE ONCE THE SLOPE OR DRAIN IS STABILISED, OR THE ROLLS HAVE DETERIORATED TO A POINT WHERE THEY ARE NO LONGER PROVIDING THEIR INTENDED DRAINAGE OR SEDIMENT CONTROL FUNCTION.

# SEDIMENT & EROSION CONTROL PROGRAM

NO WORK IS SO

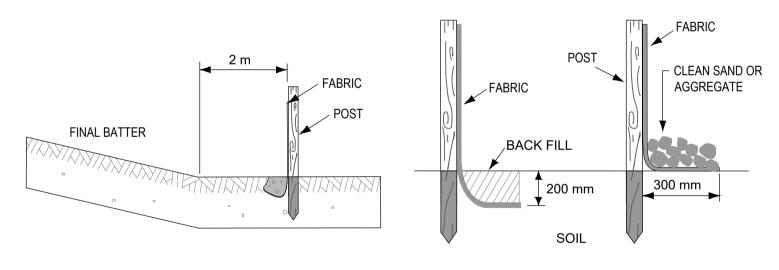
**IMPORTANT THAT** IT CANNOT BE

DONE SAFELY

OBJECTIVE/TARGET THE CONTRACTOR MUST COMPLY WITH ALL STATUTORY REGULATIONS AND MAINTAIN THEM DURING EARTHWORKS/CONSTRUCTION, ALL PROVISIONS AND SPECIFICATIONS OUTLINED WITH THE APPROVED ENVIRONMENTAL MANAGEMENT PLAN MUST BE ADHERED TO, ALONG WITH ALL EROSION AND SEDIMENT CONTROL MEASURES PRESCRIBED WITHIN THESE DRAWINGS BY THE SITE ENGINEER. THE SITE FOREMAN IS TO IDENTIFY AND CHECK THE **MANAGEMENT** STRATEGY DIRECTION OF STORMWATER FLOWS AS SHOWN ON PLAN. PROVIDE BARRIERS AND OTHER MEASURES SHOWN ON PLAN TO PREVENT STORMWATER FLOWS OVER EMBANKMENTS, AND SEDIMENT INTO GULLY PITS. TASKS/ACTIONS ERECT SEDIMENTATION BARRIERS AS DETAILED. STRATEGICALLY PLACE CHECK DAMS AROUND GULLY PITS. PERFORMANCE THE SITE FOREMAN IS TO CHECK FOR EROSION AND **INDICATORS** SEDIMENT FLOW AT THE BASE OF EMBANKMENTS AFTER SIGNIFICANT RAINFALL AND SHOULD ASCERTAIN THE WORKING EFFECTIVENESS OF CHECK DAMS DURING THIS WE WEATHER. SITE FOREMAN TO MONITOR PERFORMANCE AFTER EVERY FREQUENCE/DEADLI HEAVY DOWNFALL. RESPONSIBILITY THE SITE FOREMAN IS RESPONSIBLE FOR ALL INSPECTIONS. REPORTING REVIEW | SITE WORKMEN ARE TO ADVISE THE FOREMAN IF ANY SEDIMENT & EROSION CONTROL DEVICES ARE FAILING. CORRECTIVE THE SITE FOREMAN IS TO REPORT AND ORDER THROUGH SUPERVISOR, EXTRA BARRIER OR CHECK DAMS AS ACTIONS

EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE DESIGNED AND PROVIDED IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION (AUSTRALASIA) 2018's "BEST PRACTICE EROSION AND SEDIMENT CONTROL FOR BUILDING AND CONSTRUCTION SITE.

REQUIRED.

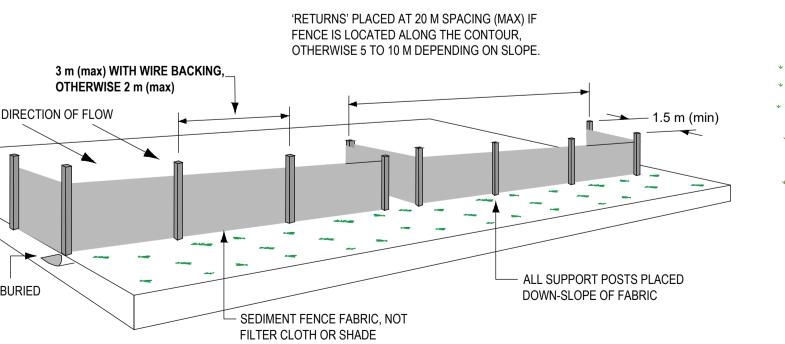


(a) LOCATION OF FENCE RELATIVE TO BASE OF SLOPE

FABRIC BURIED

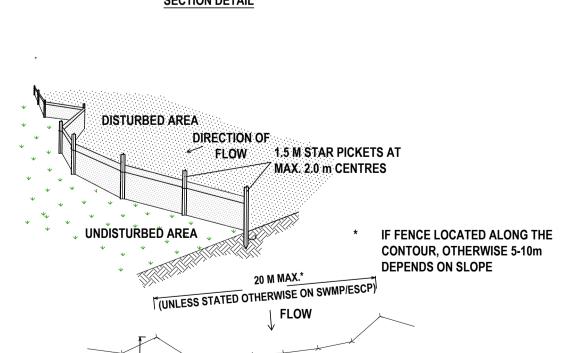
200 mm

(b) ANCHORING BASE OF FABRIC



**INSTALLATION OF SEDIMENT FENCE** 

NOT TO SCALE



SELF-SUPPORTING

ON SOIL, 150 MM X 100 MM TRENCH

WITH COMPACTED BACKFILL AND ON

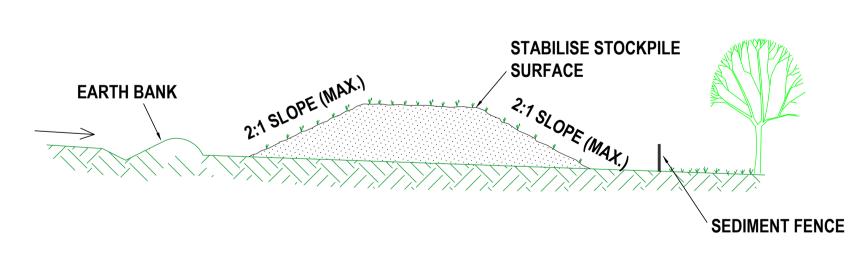
**ROCK, SET INTO SURFACE CONCRETE** 

STAR PICKETS AT MAXIMUM 2.0 m

GEOTEXTILE **DIRECTION OF** 

<--FLOW

### **SEDIMENT FENCE**



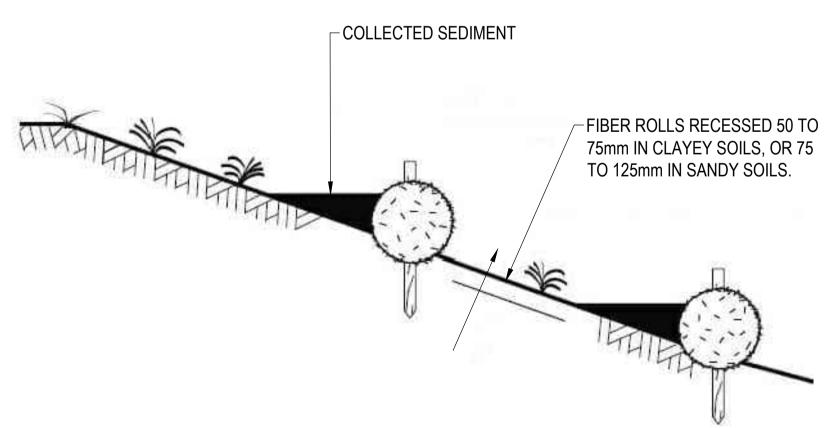
### **CONSTRUCTION NOTES**

- PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
- 2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
- WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 **METRES IN HEIGHT**
- 4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.

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CONSTRUCT CUT-OFF BUND ON THE UP-SLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWN-SLOPE.

# **STOCKPILES**



**COIR LOGS** 

			DESIGN	CS				
			DRAWN	CS			Bark	
		1	DESIGN CHECK	SS		8	<b>ELAII</b>	
			~				<u>Snei</u>	<b>ley</b>
			Jom S	helly	WILLIAM TO		CONSULTING ENGI	INEERS
ISSUE FOR CONSTRUCTION	20.11.2023		70.00		Banana	3	<b>p</b> 07 5443 8285	5
1	<b>-</b>		Director: TONY		SHIRE		lley.com.au 🖊 www.ba	arlowshelley.com.au
Revision	Date		(RPEQ 7	736)	SHIRE OF OPPORTUNITY	a PO Box 899 Maro	ochydore 4558 Al	BN 89 215 591 077

1.5m STAR PICKETS AT

500 MM TO 600 MM

MAX. 2.0 m CENTRES

WALLOON STREET AND PARTRIDGE DRIVE, THEODORE PAVEMENT WIDENING AND REHABILITATION WORKS CONTROL LINE SETOUT TABLES

Dwg. No. **84** OF **85** AS SHOWN 2320-407