

- ### WORKPLAN NOTES
- FOR STANDARD UNDERGROUND DUCT SECTIONS REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5168.
 - STANDARD TRENCH ALIGNMENT IS 0.3 TO 0.9 METRES OFF PROPERTY ALIGNMENT SUBJECT TO LOCATION OF OTHER SERVICES. REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5167 SHEET 1 TO 6. POLYMERIC COVER IS REQUIRED ON ALL OUT OF ALIGNMENT SECTIONS. REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5167 SHEET 2 AND 4 FOR DETAILS. FOR TRENCHES WITH NBNC CONDUITS REFER TO DRAWING 5228 AND 5249.
 - STREETLIGHT POLE FOOTINGS SHALL BE LOCATED PERPENDICULAR TO THE KERB, AT THE PROLONGATION OF THE SIDE PROPERTY BOUNDARY, UNLESS DETAILED OTHERWISE. WHERE DIMENSIONS ARE SHOWN THEY TAKE PRECEDENCE OVER GRID COORDINATES.
 - ALL CONDUITS SHALL BE CONTINUOUS UNLESS DETAILS OTHERWISE.
 - FOR STANDARD UDC CONSTRUCTION PRACTICES REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWINGS 5022, 5085 AND 5124.
 - THERE ARE 6x70W HPS MAXI URBAN MINOR ROAD STREETLIGHTS, 1x150W HPS SYLVANIA ROADSTER MAJOR ROAD STREETLIGHTS ON NEW POLES AND 2x150W HPS SYLVANIA ROADSTER MAJOR ROAD STREETLIGHTS ON EXISTING ERGON POLES ON RATE 2.
 - STREETLIGHT DESIGN TO AS1158 CATEGORY P4 ON LOMANDRA AVE, HANLY ST & UPPER MCDOWALL ST AND V5 ON CURREY STREET.
 - MINOR STREETLIGHTS - THE DEVELOPER SHALL SUPPLY AND INSTALL STREETLIGHT BASES. FOUNDATION DEPTH IS 1200mm FOR MINOR STREETLIGHTS. REFER TO LIGHTING CONSTRUCTION MANUAL DRAWING 1-6-4-1 & 2. CENTRELINE OF STREETLIGHT POLE SHALL BE 1m FROM THE BACK OF KERB.
 - MAJOR STREETLIGHTS - THE DEVELOPER SHALL SUPPLY AND INSTALL STREETLIGHT BASES. FOUNDATION DEPTH IS 2250mm FOR MAJOR STREETLIGHTS. REFER TO LIGHTING CONSTRUCTION MANUAL DRAWING 1-5-6-1 & 2 FOR BPM FOOTINGS. FOR ALL FOOTPATHS, CENTRELINE OF STREETLIGHT SHALL BE 1m FROM THE BACK OF KERB AND CHANNEL.
 - THE LIGHTING DESIGN HAS NO ALLOWANCE FOR CONSTRUCTION TOLERANCE OF LIGHT POLES. SPA MUST BE ADVISED OF ANY CHANGES TO DESIGN LOCATION AS COMPLIANCE WILL NEED TO BE VERIFIED AND APPROVALS SOUGHT FROM ERGON ENERGY.
 - CONFIRM ALL CONDUIT AND CABLE LENGTHS PRIOR TO INSTALLATION.
 - IN ACCORDANCE WITH ELECTRICAL SAFETY ACT, A SAFETY OBSERVER MUST BE PRESENT AT ALL TIMES WHEN WORKING IN THE VICINITY OF ENERGIZED CABLES. CONTACT ERGON ENERGY ON 131046.
 - ELECTRICAL CABLE MARKERS (ECM) ARE TO BE SUPPLIED AND INSTALLED AT ENDS OF SPARE CONDUITS INCLUDING (SPARE ROAD CROSSINGS, CONDUIT STUBS FOR FUTURE STAGES, SPARE CONDUITS FOR FUTURE HV, ETC) AND AT ALL CABLE JOINTS. REFER TO ERGON STANDARD SPECIFICATIONS RSC07, RSC08, RSM01 & RSM02.
 - SUPPLY AND INSTALL EXTRA CONDUIT BENDS TO ACHIEVE INCREASED BURIAL DEPTH AT ROAD CROSSINGS. REFER TO UNDERGROUND CONSTRUCTION MANUAL DRAWING 5022.
 - ALL CONTRACTORS MUST CARRY OUT A DIAL BEFORE YOU DIG ENQUIRY BEFORE COMMENCING ANY EXCAVATION.
 - INSTALL BEDDING SAND WITH A RESISTIVITY OF 0.8 ABOVE ALL 150mm HV CONDUITS ACROSS ENTIRE TRENCH WIDTH AS PER DWG 5167. BEDDING SAND MAY BE SOURCED FROM RAVENSBORNE SAND & SOIL, 96 PHILIP RD, RAVENSBORNE, Ph 0428748125 / 0408022469 OR FROM BOLZAN AT ALLORA.

AS CONSTRUCTED BY
 COASTAL ENERGY (07 5456 1800)
 PRINT *Harry Beattie*
 SIGNED *Harry Beattie*
 DATE 29/1/14

UNDERGROUND CABLE CERTIFICATION	
All cables detailed on this drawing have been checked using the cable locator described below and are, according to measurements taken, on the correct alignment and at correct depths below the finished level, except as marked up. Alignments are subject to the accuracy of survey pegs present at the time of measurement.	
Make: <i>NEPROTECH</i>	Model: <i>VR305-2</i>
Serial No: <i>170081105376</i>	Date Cable Checked: <i>21/1/14</i>
Name of Person Who Conducted Check: <i>Harry Beattie</i>	
Certified (signature of checker): <i>Harry Beattie</i>	

FOR CONSTRUCTION	
ON COMPLETION, MARK UP THIS PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO SPA	
CHANGES: YES/NO	
ELECTRICAL CONTRACTOR	
NAME: _____	
SIGNATURE: _____	
DATE: _____	
CIVIL CONTRACTOR	
NAME: _____	
SIGNATURE: _____	
DATE: _____	

Code	Date	Description	Revised	Code	Date	Description	Approved
A	22/5/13	FOR CONSTRUCTION		IDW			
3	4/3/13	LIGHTS MOVED		IDW			
2	13/12/12	FOR APPROVAL		IDW			
1	21/2/12	PRELIMINARY FOR ULDA		IDW			

spa
 consulting engineers
 Client: ECONOMIC DEVELOPMENT QUEENSLAND
 GPO BOX 2202 BRISBANE, QLD, 4001 Ph: (07) 3024 4101 Fax: (07) 3024 4199
 CIVIL ENGINEER BRADLEES CIVIL CONSULTING GARY MENZIES
 PO BOX 2293 SOUTHPORT, QLD, 4215 Ph: 07 5528 6411 Fax: 07 5528 6422

LEGEND	
--- CABLE EXISTING	□ SUBSTATION
--- CABLE PLANNED	□ COMMERCIAL/ INDUSTRIAL PILLAR
--- CABLE RECOVER	✓ HV ISOLATING DEVICE
--- LIGHTING DUCT	LV ISOLATING DEVICE
--- 2 OF HV DUCT LAID IN TREFOIL (3 CONDUITS PER TREFOIL)	□ NORMAL PILLAR
	□ CROSS ROAD PILLAR
	□ LINKING PILLAR
	□ DISTRIBUTION CABINET
	□ STREETLIGHT
	⊕ EARTH
	⊙ POLE
	--- EQUIPMENT EXISTING
	--- EQUIPMENT RECOVER
	--- EQUIPMENT PLANNED

Drawing Title	
CLEARVIEW RISE, STAGE 2 URD ELECTRICAL RETICULATION SITE PLAN AND SCHEMATIC DIAGRAMS	
Project Description	
CLEARVIEW RISE, ROMA EDQ, STAGE 2 BOWEN STREET, ROMA	
Date	FEB 2012
Scale	1:1000 @ A1
Drawn	IDW
Approved	JE
Page	1 of 3
ERGON Project Number	SPA Drawing Number
750182	2093-E01
Revision	A

STN NO	SITE LABEL	POLE ALIGNMENT	POLE SETTING DEPTH	ACTION	CONSTRUCTION CLASS	CONSTRUCTION CODE	DRAWING NUMBER	POSITION ON POLE	REMARKS
1				EXISTING	EARTH				
1	10207523			EXISTING	SUBSTATION INC HV SWITCHGEAR				
2				EXISTING	EARTH				
2	10207542			EXISTING	PILLAR				
2				INSTALL - ERGON	PILLAR UPGRADE	LV PNU2-3/240	5074		PILLAR UPGRADE BY ERGON ENERGY
6				EXISTING	EARTH				
6	10207534			EXISTING	PILLAR				
10	10207543			EXISTING	PILLAR				
10				INSTALL - ERGON	PILLAR UPGRADE	LV PNU2-3/240	5074		PILLAR UPGRADE BY ERGON ENERGY
11				EXISTING	EARTH				
11	10207544			EXISTING	PILLAR				
12				INSTALL	EARTH	E MEN/PIL	5085		
12	10458960			INSTALL	PILLAR	LV PN2/6/240	5026		PILLAR TO BE FITTED OVER EXISTING CONDUITS. INSTALL AS PER EE DWG 5198 SHT 2
15	10458961			INSTALL	PILLAR	LV PN2/6/240	5026		INSTALL AS PER EE DWG 5198 SHT 2
16	10458962			INSTALL	PILLAR	LV PN2/6S/240	5026		INSTALL AS PER EE DWG 5198 SHT 2
18	10458963			INSTALL	EARTH	E MEN/PIL	5085		LINK TO FUTURE STAGE.
18	10458963			INSTALL	PILLAR	LV PL2/6S/240	5042		
21	10458964			INSTALL	PILLAR	LV PN2/6/240	5026		
22	10458965			INSTALL	PILLAR	LV PN2/6S/240	5026		INSTALL AS PER EE DWG 5198 SHT 2
23	10458966			INSTALL	EARTH	E MEN/PIL	5085		
23	10458966			INSTALL	PILLAR	LV PN3/6S/240	5027		INSTALL AS PER EE DWG 5198 SHT 2
24	10458967			INSTALL	PILLAR	LV PN2/6/240	5026		INSTALL AS PER EE DWG 5198 SHT 2
25	10458968			INSTALL	PILLAR	LV PN2/6S/240	5026		INSTALL AS PER EE DWG 5198 SHT 2
27	10458969			INSTALL	PILLAR	LV PN2/6S/240	5026		INSTALL AS PER EE DWG 5198 SHT 2
28	10458970			INSTALL	EARTH	E MEN/PIL	5085		
28	10458970			INSTALL	PILLAR	LV PN1/6S/240	5025		
31	10458971	A	1m Bok	INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		LOCATE AS PER OFFSET FROM OPPOSITE BOUNDARY LOT 219/217
32	10458972		1.05 Bok	INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		LOCATE OUT FROM TRUNCATION POINT AND ORIENTATE PERPENDICULAR TO HANLY ST.
33	10458973		1m Bok	INSTALL	POLE	SL BPM/105/1 30/UG CI	1-5-6-1 & 2		LOCATE RISING MAIN PRIOR TO FOOTING INSTALLATION. INSTALL AS PER OFFSET.
34	10458974		1m Bok	INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		LOCATE OPPOSITE FROM PROPERTY BOUNDARY LOT 203/204
35	10458975		0.97 m Bok	INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		LOCATE OPPOSITE FROM PROPERTY BOUNDARY LOT 207/208
36	10458976		1m Bok	INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		LOCATE OPPOSITE FROM PROPERTY BOUNDARY LOT 213/211
37	10458977		1m Bok	INSTALL	POLE	SL BPM/75/1 15 CI	1-6-4-1 & 2		LOCATE OUT FROM TRUNCATION POINT
41	4230487			EXISTING	POLE				
41				RECOVER - ERGON	WOOD POLE BRACKET				RECOVER ERGON ENERGY
41				INSTALL - ERGON	WOOD POLE BRACKET	SL WPB/MA2 AL	8047		INSTALL ERGON ENERGY
42	3318843			EXISTING	POLE				
42				RECOVER - ERGON	WOOD POLE BRACKET				RECOVER ERGON ENERGY
42				INSTALL - ERGON	WOOD POLE BRACKET	SL WPB/MA2 AL	8047		INSTALL ERGON ENERGY
43	4230486			EXISTING	POLE				
44	4230485			EXISTING	POLE				
45	4230484			EXISTING	POLE				
46	4230483			EXISTING	POLE				
47	4230482			EXISTING	POLE				
48	6008665			EXISTING	POLE				
49				EXISTING	POLE				
51	10207555			EXISTING	POLE				
52	10207556			EXISTING	POLE				
53	10207558			EXISTING	POLE				
54	10207547			EXISTING	POLE				
55	10207559			EXISTING	POLE				
56	10207563			EXISTING	POLE				
71	4230480			EXISTING	POLE				
72	4230481			EXISTING	POLE				
104				EXISTING	POLE				
105				EXISTING	POLE				
106				EXISTING	POLE				
107	3101157			EXISTING	POLE				
120	3333399			EXISTING	POLE				

STN FROM	STN TO	ACTION	CONSTRUCTION CODE	LENGTH (m)	No. of LENGTHS / DRUM	BENDS (Degrees/ Radius(mm) x No.)	Remarks
3	4	INSTALL - CIVIL	C100L	76	12.7	15/1830x4	LOCATE EXISTING CAPPED CONDUIT AT STN 3 AND JOIN TO NEW. LAY CONDUIT IN TREFOL ARRANGEMENT ON ROAD SIDE OF TRENCH. USE 15 DEGREE BENDS UNDER ROADS. CAP CONDUIT AT STN 4
3	4	INSTALL - CIVIL	C100L	76	12.7	15/1830x4	LOCATE EXISTING CAPPED CONDUIT AT STN 3 AND JOIN TO NEW. LAY CONDUIT IN TREFOL ARRANGEMENT ON ROAD SIDE OF TRENCH. USE 15 DEGREE BENDS UNDER ROADS. CAP CONDUIT AT STN 4
3	4	INSTALL - CIVIL	C100L	76	12.7	15/1830x4	LOCATE EXISTING CAPPED CONDUIT AT STN 3 AND JOIN TO NEW. LAY CONDUIT IN TREFOL ARRANGEMENT ON ROAD SIDE OF TRENCH. USE 15 DEGREE BENDS UNDER ROADS. CAP CONDUIT AT STN 4
3	4	INSTALL - CIVIL	C100L	76	12.7	15/1830x4	LOCATE EXISTING CAPPED CONDUIT AT STN 3 AND JOIN TO NEW. LAY CONDUIT IN TREFOL ARRANGEMENT ON ROAD SIDE OF TRENCH. USE 15 DEGREE BENDS UNDER ROADS. CAP CONDUIT AT STN 4
3	4	INSTALL - CIVIL	C100L	76	12.7	15/1830x4	LOCATE EXISTING CAPPED CONDUIT AT STN 3 AND JOIN TO NEW. LAY CONDUIT IN TREFOL ARRANGEMENT ON ROAD SIDE OF TRENCH. USE 15 DEGREE BENDS UNDER ROADS. CAP CONDUIT AT STN 4
3	4	INSTALL - CIVIL	C100L	76	12.7	15/1830x4	LOCATE EXISTING CAPPED CONDUIT AT STN 3 AND JOIN TO NEW. LAY CONDUIT IN TREFOL ARRANGEMENT ON ROAD SIDE OF TRENCH. USE 15 DEGREE BENDS UNDER ROADS. CAP CONDUIT AT STN 4
3	4	INSTALL - CIVIL	C150L	76	12.7	15/1830x4	LOCATE EXISTING CAPPED CONDUIT AT STN 3 AND JOIN TO NEW. USE 15 DEGREE BENDS UNDER ROADS. CAP CONDUIT AT STN 4
3	4	INSTALL - CIVIL	C100L	76	12.7	15/1830x4	LOCATE EXISTING CAPPED CONDUIT AT STN 3 AND JOIN TO NEW. LAY CONDUIT IN TREFOL ARRANGEMENT ON ROAD SIDE OF TRENCH. USE 15 DEGREE BENDS UNDER ROADS. CAP CONDUIT AT STN 4
3	4	INSTALL - CIVIL	C150L	76	12.7	15/1830x4	LOCATE EXISTING CAPPED CONDUIT AT STN 3 AND JOIN TO NEW. USE 15 DEGREE BENDS UNDER ROADS. CAP CONDUIT AT STN 4
3	4	INSTALL - CIVIL	C150L	124	20.7	15/1830x9	LOCATE EXISTING CAPPED CONDUIT AT STN 5 AND JOIN TO NEW. USE 15 DEGREE BENDS UNDER ROADS. CAP CONDUIT AT STN 7.
3	4	INSTALL - CIVIL	C150L	124	20.7	15/1830x9	LOCATE EXISTING CAPPED CONDUIT AT STN 5 AND JOIN TO NEW. USE 15 DEGREE BENDS UNDER ROADS. CAP CONDUIT AT STN 7.
5	60	INSTALL - CIVIL	C150L	13	2.2	45/1830x2	LOCATE CAPPED CONDUIT AT STN 5 AND JOIN TO NEW. CAP CONDUIT AT STN 60
5	60	INSTALL - CIVIL	C150L	13	2.2	45/1830x2	SPARE CONDUIT. LOCATE CAPPED CONDUIT AT STN 5 AND JOIN TO NEW. CAP CONDUIT AT STN 60
5	60	INSTALL - CIVIL	C100L	13	2.2	45/1830x2	LOCATE CAPPED CONDUIT AT STN 5 AND JOIN TO NEW. CAP CONDUIT AT STN 60
9	7	INSTALL - CIVIL	C100L	107	17.8	30/1830x2 15/1830x2	CONDUIT FOR FUTURE STAGE 3A LOTS. CAP CONDUIT AT STN 9 & STN 7.
12	12	INSTALL - CIVIL	C100L			45/1200x3	LOCATE EXISTING CONDUITS AT STN 12 AND FIT BENDS
14	15	INSTALL - CIVIL	C100L	16	2.7	45/1200x1	LOCATE EXISTING CAPPED CONDUIT AT STN 14 AND JOIN TO NEW
15	16	INSTALL - CIVIL	C100L	44	7.3	45/1200x2	
16	18	INSTALL - CIVIL	C80L	33	5.5	45/1200x2	
16	31	INSTALL - CIVIL	C40H	13	3.3	90/300x2	
18	8	INSTALL - CIVIL	C100L	28	4.7	45/1200x1 15/1830x4	CAP CONDUIT AT STN 8
18	32	INSTALL - CIVIL	C40H	12	3.0	90/300x2 90/600x2	
21	22	INSTALL - CIVIL	C100L	31	5.2	45/1200x2	
22	23	INSTALL - CIVIL	C100L	53	8.8	45/1200x2 30/1830x2 15/1830x2	
22	33	INSTALL - CIVIL	C40H	17	4.3	90/300x2 90/600x1	
23	24	INSTALL - CIVIL	C100L	38	6.3	45/1200x2	
23	34	INSTALL - CIVIL	C40H	17	4.3	90/300x2	
23	44	INSTALL - CIVIL	C100L	28	4.7	90/750x1 45/1200x1 15/1830x4	
24	25	INSTALL - CIVIL	C100L	28	4.7	45/1200x2	
25	27	INSTALL - CIVIL	C100L	43	7.2	45/1200x2	
25	35	INSTALL - CIVIL	C40H	20	5.0	90/300x2	
27	28	INSTALL - CIVIL	C100L	26	4.3	45/1200x2	
27	36	INSTALL - CIVIL	C40H	15	3.8	90/300x2	
28	37	INSTALL - CIVIL	C40H	11	2.8	90/300x2 90/600x2	

STN FROM	STN TO	ACTION	CONSTRUCTION CODE	LENGTH (m)	No. of LENGTHS / DRUM	BENDS (Degrees/ Radius(mm) x No.)	Remarks
81	82	INSTALL - CIVIL	C100L	13	2.2	15/1830x4	CAP CONDUIT AT STN 81 AND 82
84	83	INSTALL - CIVIL	C100L	8	1.3	15/1830x4	CAP CONDUIT AT STN 83 AND 84
2	3	EXISTING	C100L				EXISTING LV CONDUIT
10	12	EXISTING	C100L				EXISTING LV CONDUIT
12	13	EXISTING	C100L				EXISTING LV CONDUIT
12	14	EXISTING	C100L				EXISTING LV CONDUIT

STN NO	SITE LABEL	ACTION	CONSTRUCTION CODE	RATE	TARIFF OWNER	MOUNTING HEIGHT (m)	REMARKS
31	10458971	INSTALL	SL S70D	RATE 2	MRC	7.5	
32	10458972	INSTALL	SL S70D	RATE 2	MRC	7.5	
33	10458973	INSTALL	SL S150C	RATE 2	MRC	10.5	
34	10458974	INSTALL	SL S70D	RATE 2	MRC	7.5	
35	10458975	INSTALL	SL S70D	RATE 2	MRC	7.5	
36	10458976	INSTALL	SL S70D	RATE 2	MRC	7.5	
37	10458977	INSTALL	SL S70D	RATE 2	MRC	7.5	
41		INSTALL - ERGON	SL S150C	RATE 2	MRC	10.5	
41		RECOVER - ERGON					
42		RECOVER - ERGON					
42		INSTALL - ERGON	SL S150C	RATE 2	MRC	10.5	
49		EXISTING					
51	10207555	EXISTING					
52	10207556	EXISTING					
53	10207558	EXISTING					
54	10207547	EXISTING					
55	10207549	EXISTING					
56	10207563	EXISTING					

STN FROM	STN TO	ACTION	VOLTAGE	CONSTRUCTION CODE	ROUTE LENGTH	CABLE LENGTH	REMARKS
2	21	INSTALL - ERGON	415V	LV-240C4/673	42	46	CABLE INSTALLATION AND CONNECTION BY ERGON ENERGY
10	12	INSTALL - ERGON	415V	LV-240C4/673	38	42	CABLE INSTALLATION AND CONNECTION BY ERGON ENERGY
12	15	INSTALL	415V	LV-240C4/673	36	40	
15	16	INSTALL	415V	LV-240C4/673	44	48	
16	18	INSTALL	415V	LV-240C4/673	33	37	
16	31	INSTALL	240V	LVI-4CU2NS/1671	13	18	
18	32	INSTALL	240V	LVI-4CU2NS/1671	12	17	
21	22	INSTALL	415V	LV-240C4/673	31	35	
22	23	INSTALL	415V	LV-240C4/673	53	57	
22	33	INSTALL	240V	LVI-16CU2NS/1672	17	22	
23	24	INSTALL	415V	LV-240C4/673	38	42	
23	34	INSTALL	240V	LVI-4CU2NS/1671	17	22	
23	44	INSTALL	415V	LV-240C4/673	28	35	COIL CABLE AT BASE OF POLE FOR FINAL CONNECTION BY ERGON ENERGY
24	25	INSTALL	415V	LV-240C4/673	28	32	
25	27	INSTALL	415V	LV-240C4/673	43	47	
25	35	INSTALL	240V	LVI-4CU2NS/1671	20	25	
27	28	INSTALL	415V	LV-240C4/673	26	30	
27	36	INSTALL	240V	LVI-4CU2NS/1671	15	20	
28	37	INSTALL	240V	LVI-4CU2NS/1671	11	16	

FOR CONSTRUCTION

ON COMPLETION, MARK UP THIS PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO SPA

CHANGES: YES/NO

ELECTRICAL CONTRACTOR

NAME: _____

SIGNATURE: _____

DATE: _____

CIVIL CONTRACTOR

NAME: _____

SIGNATURE: _____

DATE: _____

AS CONSTRUCTED BY COASTAL ENERGY (07 5456 1800)

PRINT Harry Bewell

SIGNED [Signature]

DATE 29/1/14.

Code	Date	Description	Revised	Code	Date	Description	Approved
A	22/5/13	SITE LABELS & FOR CONSTRUCTION	IDW				
3	4/3/13	LIGHTS MOVED	IDW				
2	13/12/12	FOR APPROVAL	IDW				
1	21/2/12	PRELIMINARY FOR ULDA	IDW				

spa
consulting engineers

Client: ECONOMIC DEVELOPMENT QUEENSLAND

GPO BOX 2202 BRISBANE, QLD, 4001 Ph (07) 3024 4101 Fax (07) 3024 4199

CIVIL ENGINEER BRADLEES CIVIL CONSULTING GARY MENZIES

PO BOX 2293 SOUTHPORT, QLD, 4215 Ph 07 5528 6411 Fax 07 5528 6422

LEGEND

----- CABLE EXISTING

----- CABLE PLANNED

----- CABLE RECOVER

----- LIGHTING DUCT

----- 2 OF HV DUCT LAID IN TREFOL (3 CONDUITS PER TREFOL)

□ SUBSTATION

✓ HV ISOLATING DEVICE

I LV ISOLATING DEVICE

□ NORMAL PILLAR

□ CROSS ROAD PILLAR

□ LINKING PILLAR

□ COMMERCIAL/ INDUSTRIAL PILLAR

□ DISTRIBUTION CABINET

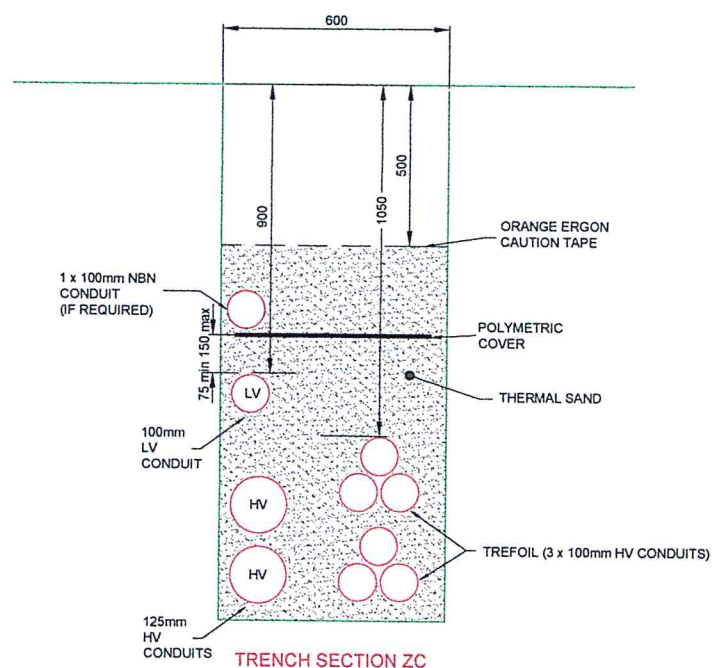
✱ STREETLIGHT

⊥ EARTH

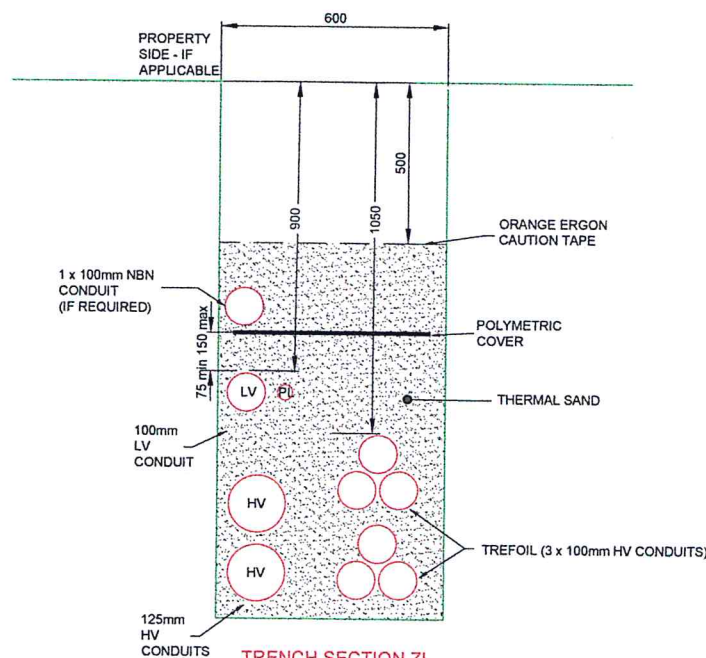
○ POLE

Date	FEB 2012
Scale	NTS
Drawn	IDW
Approved	JE
Project Description	CLEARVIEW RISE, STAGE 2 URD ELECTRICAL RETICULATION SCHEDULES
Project Description	CLEARVIEW RISE, ROMA ULDA, STAGE 2 BOWEN STREET, ROMA
ERGON Project Number	750182
SPA Drawing Number	209

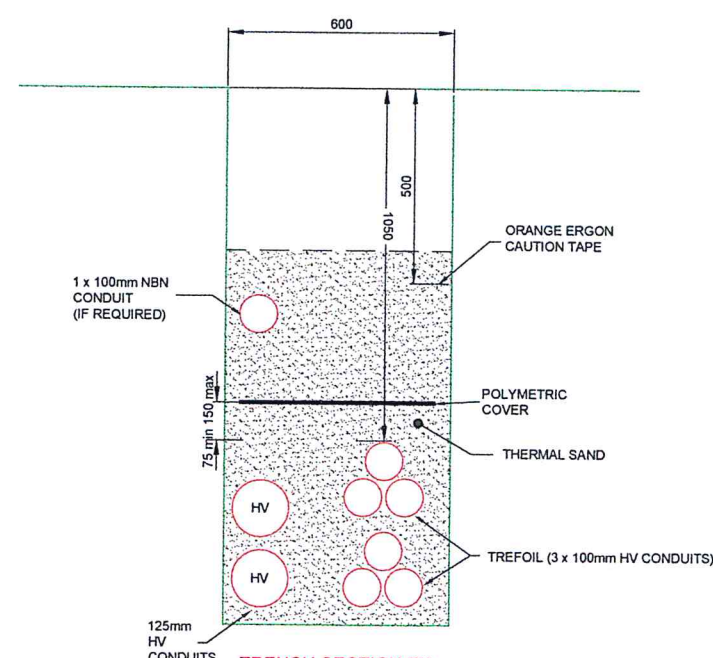
NON STANDARD TRENCH SECTIONS (NTS)



TRENCH SECTION ZC
 FROM STN 3 TO TURN OF LIGHT CONDUIT TO STN 33
 AND FROM STN 22 TRUNCATION LOT 203 UPPER
 McDOWALL ST. WHEN NBN CONDUIT IS INSTALLED
 ALONG FRONTAGE LOT 200, 201 & 203, LOCATE AS
 PER EE DWG 5228.



TRENCH SECTION ZI
 FROM STN 22 TO TURN OF LIGHT CONDUIT TO
 LIGHT STN 33 BEFORE STN 22. WHEN NBN
 CONDUIT IS INSTALLED ALONG FRONTAGE
 LOT 201, LOCATE AS PER EE DWG 5228.



TRENCH SECTION ZX
 ROAD CROSSING UPPER McDOWALL ST TO
 STN 4

AS CONSTRUCTED BY
 COASTAL ENERGY (07 5456 1800)
 PRINT *Harry Bowtell*
 SIGNED *[Signature]*
 DATE 29/1/14

FOR CONSTRUCTION	
ON COMPLETION, MARK UP THIS PRINT CLEARLY WITH ALL FINAL CHANGES AND RETURN TO SPA	
CHANGES: YES/NO	
ELECTRICAL CONTRACTOR	
NAME: _____	
SIGNATURE: _____	
DATE: _____	
CIVIL CONTRACTOR	
NAME: _____	
SIGNATURE: _____	
DATE: _____	

Code	Date	Description	Revised	Code	Date	Description	Approved
A	22/5/13	FOR CONSTRUCTION		IDW			
3	4/3/13	FOR APPROVAL		IDW			

CLIENT:
 ECONOMIC DEVELOPMENT QUEENSLAND
 GPO BOX 2202
 BRISBANE, QLD, 4001
 Ph: (07) 3024 4101 Fax: (07) 3024 4199
 CIVIL ENGINEER
 BRADLEES CIVIL CONSULTING
 GARY MENZIES
 PO BOX 2293
 SOUTHPORT, QLD, 4215
 Ph 07 5528 6411 Fax 07 5528 6422

spa
 consulting engineers
 Tel: (07) 4032 3311
 PO Box 864N North Cairns QLD 4870
 Email Address - mail@spaconsulting.com.au
A business unit of JG Design and Drafting Pty Ltd. a.s. 019888421

LEGEND --- CABLE EXISTING - - - CABLE PLANNED --- CABLE RECOVER --- EQUIPMENT EXISTING --- EQUIPMENT RECOVER --- EQUIPMENT PLANNED --- HV DUCT --- LV DUCT --- LIGHTING DUCT --- 2 OF HV DUCT LAID IN TREFOIL (3 CONDUITS PER TREFOIL)	[] SUBSTATION [] HV ISOLATING DEVICE [] LV ISOLATING DEVICE [] NORMAL PILLAR [] CROSS ROAD PILLAR [] LINKING PILLAR [] COMMERCIAL/ INDUSTRIAL PILLAR [] DISTRIBUTION CABINET [] STREETLIGHT [] EARTH [] POLE
--	---

Drawing Title		Date	FEB 2012
CLEARVIEW RISE, STAGE 2 URD ELECTRICAL RETICULATION TRENCH DETAILS		Scale	NTS
Project Description		Drawn	IDW
CLEARVIEW RISE, ROMA EDQ, STAGE 2 BOWEN STREET, ROMA		Approved	JE
ERGON Project Number	SPA Drawing Number	Revision	
750182	2093-E03	A	