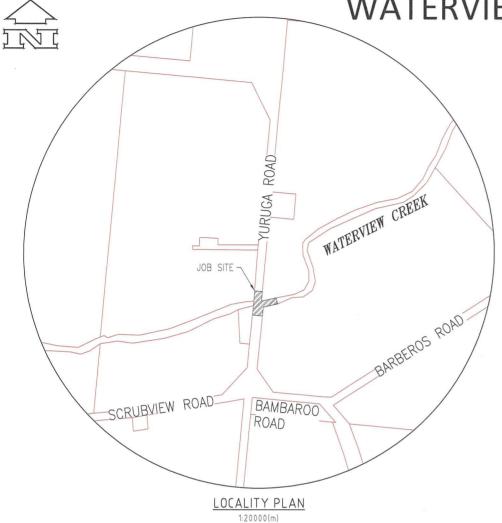
# YURUGA ROAD WATERVIEW CREEK SCOUR PROTECTION UPGRADE



## SURVEY CONTROL POINTS

POINT	E(PRG)	N(PRG)	ELEV	CODE
1	414541.623	7916236.902	12.254	IRON SPIKE (SUB SURFACE)
2	414549.895	7916476.767	12.117	IRON SPIKE (SUB SURFACE)
3	414553.747	7916411.664	9.596	NAIL IN BITUMEN (TOP OF CULVERTS - DOWN STREAM)
370	414551.246	7916324.578	12.552	PM69908 HSC370

## HINCHINBROOK SHIRE COUNCIL SURVEY NOTES:

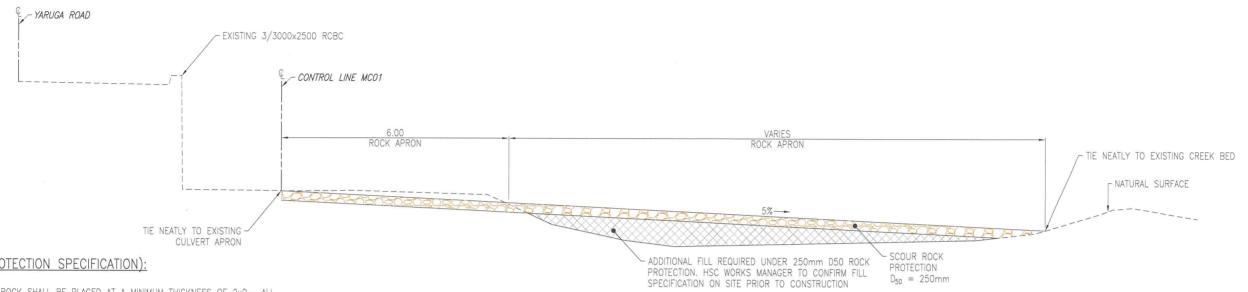
Project Site: Waterview Creek (Yuruga Road)
Locality: Bambaroo
Survey Number: 413101.mjo
Project Coordinates are on a Plane Rectangular Grid at mean terrain height
Coordinate Point of Origin: TS1, E: 414541.623 N: 7916236.902 MGA-94 Zone 55,
Derived QLD ANJ 22.03
Scale Factor, Project Plane Rectangular Grid to MGA-94 = 0.999679112
Azimuth Datum: MGA-94
Layel Datum: MGA-94
Layel Datum: MGA-94

Level Datum: PM69908, HSC370, RL= 12.552 AHD Derived.

#### DRAWING INDEX

DRAWING NUMBER	DRAWING NAME	REVISION
6000-001	DRAWING INDEX & LOCALITY PLAN	02
6000-002	TYPICAL CROSS SECTION & DETAILS PLAN	02
6000-003	GENERAL LAYOUT PLAN	02
6000-101	ANNOTATED X-SECTION SHEET 1 OF 2	02
6000-102	ANNOTATED X-SECTION SHEET 2 OF 2	02

		LEVEL DATUM: AHD der	Drafted:	Designed:	Examined By Client:	Approved by Council's DIUS:		HINCHINBROOK SHIRE COUNCIL	Job No
02 21/10/2022 REVISED ROCK PROTECTION NOTES	As Shown		CH	CH		The language	ks ks	YURUGA ROAD - YURUGA	23RDS007
01 30/09/2022 PRELIMINARY DESIGN	-	Associated Plans:	Checked:	Checked:		Date: 3/11/22 . 8	B00	FISH PASSAGE UPGRADE	Plan No 8555
FILEPATH: C.\USERS\ELIZA1874\HINCHINBROOK SHIRE COUNCIL\2022-23 CAPITAL PROJECTS - DOCUMENTS\23RDS007 - WATER DATE PLOTTED: Thursday, 3 November 2022 12:58:47 PM	YEW CK SCOUR PROTECTION UPGRADE\04-DESIGN\E Scale	Plan No. 1 OF 5	-H6	H6	Date://	RPEQ No. 16571	Field	DRAWING INDEX & LOCALITY PLAN	01 02



TYPICAL CROSS SECTION: FISH PASSAGE ROCK APRON

# NOTES (SCOUR PROTECTION SPECIFICATION):

- SCOUR PROTECTION ROCK SHALL BE PLACED AT A MINIMUM THICKNESS OF 2xD50. ALL ARMOUR ROCK SHALL BE ANGULAR IN SHAPE TO ENSURE ADEQUATE INTERLOCKING
- SCOUR PROTECTION ROCK SHALL BE CAREFULLY PLACED WITH A BUCKET FROM A HEIGHT NO GRATER THAN 1.0m ABOVE THE MATERIAL ON WHICH IT IS TO BE PLACED
- SCOUR PROTECTION ROCK SHALL BE COMPACTED BY TRACK ROLLING OR BUCKET TAMPING ONLY AND LEFT WITH A ROUGHENED SURFACE.
- PLACEMENT OF ROCK SHALL PRODUCE A BLANKET OF INTERLOCKING ROCK THAT HAS NO SIGNIFICANT VOIDS AND DOES NOT MOVE UNDERFOOT
- THE ROCK USED FOR SCOUR PROTECTION MUST BE DURABLE. RESISTANT TO WEATHERING AND ANGULAR IN SHAPE
- THEE ROCK MUST HAVE A RELATIVE DENSITY GREATER THAN OR EQUAL TO 2.40.
  THE D50 IS USED TO DESCRIBE THE NOMINAL ROCK SIZE REQUIRED FOR THE SCOUR
  PROTECTION WORKS. WHERE D50 REPRESENTS THE NOMINAL ROCK DIAMETER OF WHICH 50% OF THE ROCK (BY WEIGHT) ARE SMALLER, NO ROCKS SHOULD BE GREATER IN DIAMETER THAN TWICE THE D50 AND SHOULD BE PROPORTIONED SUCH THAT NEITHER THE BREADTH NOR THICKNESS OF A SINGLE ROCK IS LESS THAN ONE-THIRD IT'S LENGTH
- THE ROCK MUST ALSO BE WELL GRADED SO THAT THE ROCK CAN INTERLOCK WITH LOW VOID SPACES. POOR GRADING OF THE ROCK WILL INCREASE THE POTENTIAL FOR STRUCTURAL FAILURE OF THE SCOUR PROTECTION WORKS.

# NOTES (GENERAL):

- ALL WORKS AND MATERIALS MUST BE IN ACCORDANCE WITH CURRENT LOCAL AUTHORITY POLICIES, SPECIFICATIONS, STANDARD DRAWINGS AND AUSTRALIAN STANDARDS UNLESS NOTED OTHERWISE. BEFORE PROCEEDING WITH THE WORK ANY DISCREPANCIES IN THE CONTRACT DOCUMENTS SHALL BE REFERRED FOR DECISION TO THE SUPERINTENDENT.
- ALL MATERIALS & WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND THE LOCAL AUTHORITY'S BY-LAWS.
- THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL RELEVANT APPROVALS PRIOR TO COMMENCEMENT OF WORKS.
- THE CONTRACTOR MUST TAKE ALL NECESSARY MEASURES TO PROTECT NEARBY PROPERTY OWNERS FROM DUST POLLUTION DURING ALL PHASES OF WORKS. FINISHED AREAS OF EARTHWORKS MUST BE KEPT WATERED WHERE NECESSARY UNTIL A SATISFACTORY GRASS COVER IS ACHIEVED.
- ALL CONSTRUCTION WORKS ARE TO BE JOINED NEATLY TO EXISTING SURFACE.

  PUBLIC UTILITIES DESPITE THE POSITION OF PUBLIC UTILITIES, FITTINGS, PIPES, POLES, MANHOLES, ETC MAY BE INDICATED ON THE DRAWINGS, NO RESPONSIBILITY WILL BE ACCEPTED BY THE PRINCIPAL FOR THE ACCURACY OF THE
- REPRESENTATION OR THE OMISSION THEREOF
- LOCATION AND LEVEL OF EXISTING SERVICES AND STRUCTURES HAS BEEN PLOTTED FROM AVAILABLE RECORDS AND IS TO BE CONSIDERED INDICATIVE ONLY. THE CONTRACTOR MUST ACCURATELY LOCATE THESE ON SITE PRIOR TO COMMENCING WORKS AND MUST PROTECT ALL EXISTING SERVICES DURING CONSTRUCTION. ANY DAMAGE TO EXISTING SERVICES MUST BE REPAIRED AT THE CONTRACTORS EXPENSE.

  VEGETATION OUTSIDE WORK AREAS MUST NOT BE DISTURBED UNLESS SPECIFICALLY AUTHORIZED BY THE SUPERINTENDENT.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH ALL RELEVANT LEGISLATION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH ALL RELEVANT LEGISLATION.

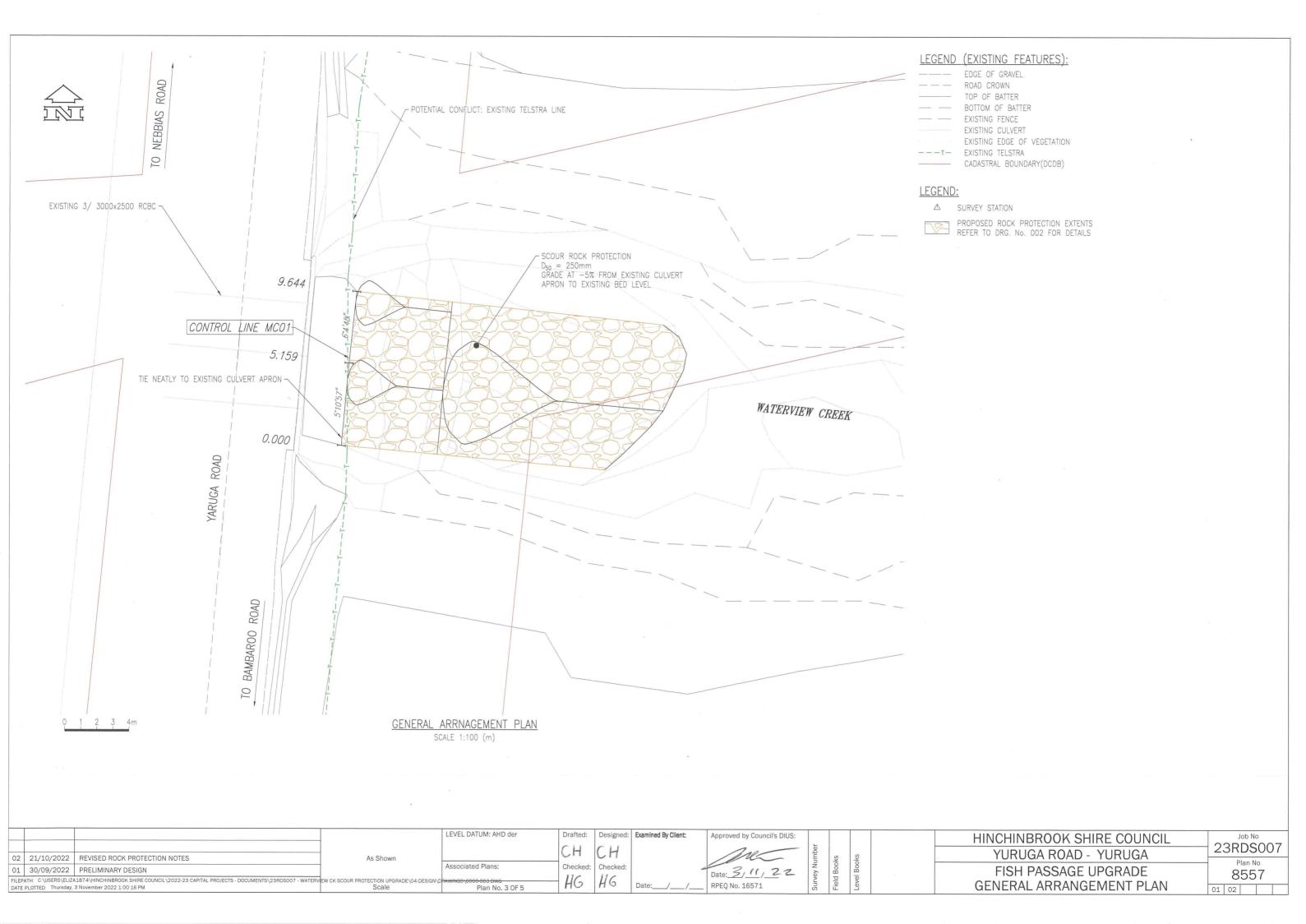
  IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE STABILITY OF ANY TEMPORARY WORKS ON THE SITE.

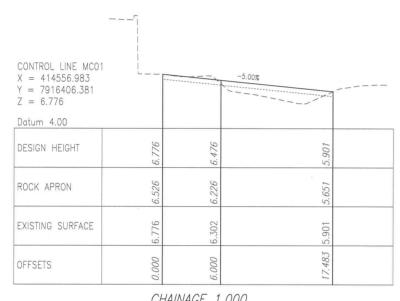
  THE CONTRACTOR MUST CONFIRM THE ACCURACY OF ALL SET OUT AND CONFIRM ALL LEVELS WITH THE SUPERINTENDENT PRIOR TO COMMENCING CONSTRUCTION..

  THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE LOCAL AUTHORITY SPECIFICATIONS AND THE PROJECT SPECIFICATIONS. IN THE EVENT OF A DISCREPANCY, REFER TO THE SUPERINTENDENT FOR CLARIFICATION.
- ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK MUST BE AS INDICATED ON THESE DRAWINGS AND MUST BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND/OR FABRICATION IS COMMENCED. THE PROJECT DRAWINGS MUST NOT BE SCALED, UNLESS SPECIFICALLY NOTED OTHERWISE.
- DURING CONSTRUCTION THE CONTRACTOR MUST BE RESPONSIBLE FOR MAINTAINING PROPOSED AND EXISTING WORKS IN A STABLE CONDITION AND ENSURING NO PART MUST BE OVER STRESSED UNDER CONSTRUCTION ACTIVITIES.

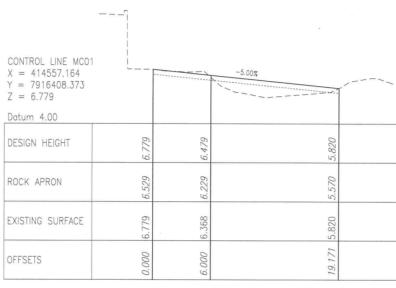
  SAFETY REQUIREMENTS MUST BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WORK PLACE, HEALTH AND SAFETY ACT.
- THE APPROVAL FOR A SUBSTITUTION MAY BE SOUGHT FROM THE SUPERINTENDENT BUT IS NOT AN AUTHORISATION FOR A VARIATION. ANY VARIATION MUST BE APPROVED BY THE SUPERINTENDENT BEFORE WORK COMMENCES.
- THE ACCESS FOR THE WORK SITE MUST BE AS INDICATED ON THE CONTRACT OR AS APPROVED BY THE SUPERINTENDENT AND THE LOCAL AUTHORITIES. THE CONTRACTOR MUST OBTAIN ALL NECESSARY AND RELEVENT PERMITS. IT IS THE CONTRACTORS RESPONSIBILITY TO CONSTRUCT AND MAINTAIN ACCESS AS REQUIRED TO ALL PARTS OF CONTRACTORS WORK AREA.
- THE CONTRACTORS COMPOUND MUST BE LOCATED AS APPROVED BY SUPERINTENDENT
- CONTRACTOR MUST UNDERTAKE ALL WORKS IN PROXIMITY TO EXISTING SERVICES AND INFRASTRUCTURE IN ACCORDANCE WITH THE RELEVANT UTILITY / AUTHORITY POLICIES AND PROCEDURES.

LEVEL DATUM: AHD der Drafted: Designed: Examined By Client: Approved by Council's DIUS: HINCHINBROOK SHIRE COUNCIL 23RDS007 CH YURUGA ROAD - YURUGA 21/10/2022 REVISED ROCK PROTECTION NOTES Plan No Associated Plans: Checked: Checked FISH PASSAGE UPGRADE 01 30/09/2022 PRELIMINARY DESIGN Date:3/11/22 8556 HG. 2022-23 CAPITAL PROJECTS - DOCUMENTS\23RDS007 - WATER VIEW CK SCOUR F 416 TYPICAL CROSS SECTION RPFO No. 16571 01 02





CHAINAGE 1.000



CHAINAGE 3.000

CONTROL LINE MCO <sup>1</sup> X = 414557.345 Y = 7916410.365 Z = 6.782	1		-5.00%	
Datum 4.00				
DESIGN HEIGHT	6.782	6.482	5.772	
ROCK APRON	6.532	6.232	5.522	
EXISTING SURFACE	6.782	6.441	5.772	
OFFSETS	0.000	6.000	20.197	

CHAINAGE 5.000

CONTROL LINE MCO X = 414556.893 Y = 7916405.385 Z = 6.774	1		-5.00%	
Datum 4.00				
DESIGN HEIGHT	6.774	6.474	5.949	
ROCK APRON	6.524	6.224	5.699	
EXISTING SURFACE	6.774	6.272	5.949	
OFFSETS	0.000	0.000	16.506	

CHAINAGE 0.000

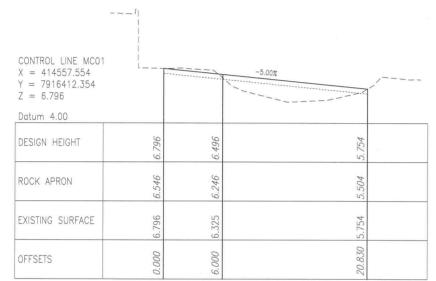
CONTROL LINE MCO <sup>-</sup> X = 414557.074 Y = 7916407.377 Z = 6.777			-5.00%	, <u>-</u>
Datum 4.00				
DESIGN HEIGHT	6.777	6.477	5.860	
ROCK APRON	6.527	6.227	5.610	
EXISTING SURFACE	6.777	6.335	5.860	
OFFSETS	0.000	6.000	18.342	

CHAINAGE 2.000

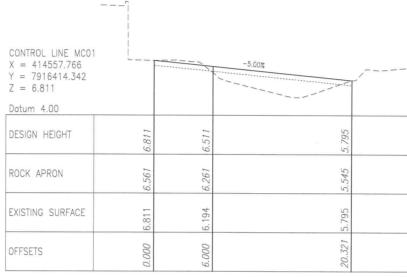
CONTROL LINE MCO X = 414557.254 Y = 7916409.369 Z = 6.780 Datum 4.00	1		-5.00%	
5010111 1.00				
DESIGN HEIGHT	6.780	6.480	5.789	
ROCK APRON	6.530	6.230	5.539	
EXISTING SURFACE	6.780	6.405	5.789	
OFFSETS	0.000	6.000	19,825	

CHAINAGE 4.000

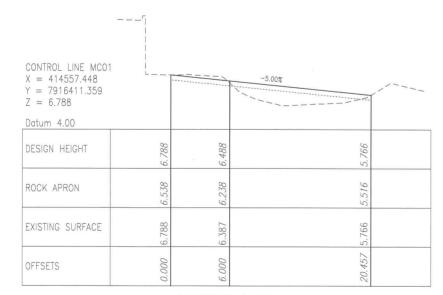
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1.0001.10111	ELIZA1874\HINCHINBROOK SHIRE COUNCIL\2022-23 CAPITAL PROJECTS - DOCUMENTS\23RDS007 - WATER\	EW CK SCOUR PROTECTION UPGRADE\04-DESIGN\0	RAWINGS\G000-101 DWG	HG HO	Date: / /	RPEO No. 16571	urve level	ANNOTATED X-SECTION SHEET 1 OF 2	8558
DATE PLOTTED: Thur	day, 3 November 2022 1:00:45 PM	Scale	Plan No. 4 OF 5	710	Juic/	- NI LQ NO. 103/1	S F J	ANNOTATED A-SECTION STILL I TO 2	01 02



CHAINAGE 7.000



CHAINAGE 9.000



CHAINAGE 6.000

CONTROL LINE MCO X = 414557.660 Y = 7916413.348 Z = 6.804 Datum 4.00			-5.00%	/
DESIGN HEIGHT	6.804	6.504	5.758	
ROCK APRON	6.554	6.254	5.508	
EXISTING SURFACE	6.804	6.262	5.758	
OFFSETS	0.000	6.000	20.909	

CHAINAGE 8.000

CONTROL LINE MC01 X = 414557.834 Y = 7916414.983 Z = 6.816 Datum 4.00			-5.00%	/
DESIGN HEIGHT	6.816	6.516	5.853	
ROCK APRON	6.566	6.266	5.603	
EXISTING SURFACE	6.816	6.144	5.853	
OFFSETS	0.000	6.000	19.262	

CHAINAGE 9.644

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				LEVEL DATUM: AHD der	Drafted:	Designed	Examined By Client:	Approved by Council's DIUS:			HINCHINBROOK SHIRE COUNCIL	Job No
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EU EDATH, CAUSEDS EI TAM 87 A HINDHINDROOK SHIPE COUNCIL 2000 32 CARTAL DROIECTS, DOCUMENTS 2000 COO 400 DING											8559	
DATE PLOTTED: Thursday, 3 November 2022 1:01:15 PM Scale				Plan No. 5 OF 5	MO	110	Date:/	RPEQ No. 16571	Le Fie		ANNOTATED X-SECTION SHEET 2 OF 2	01 02