

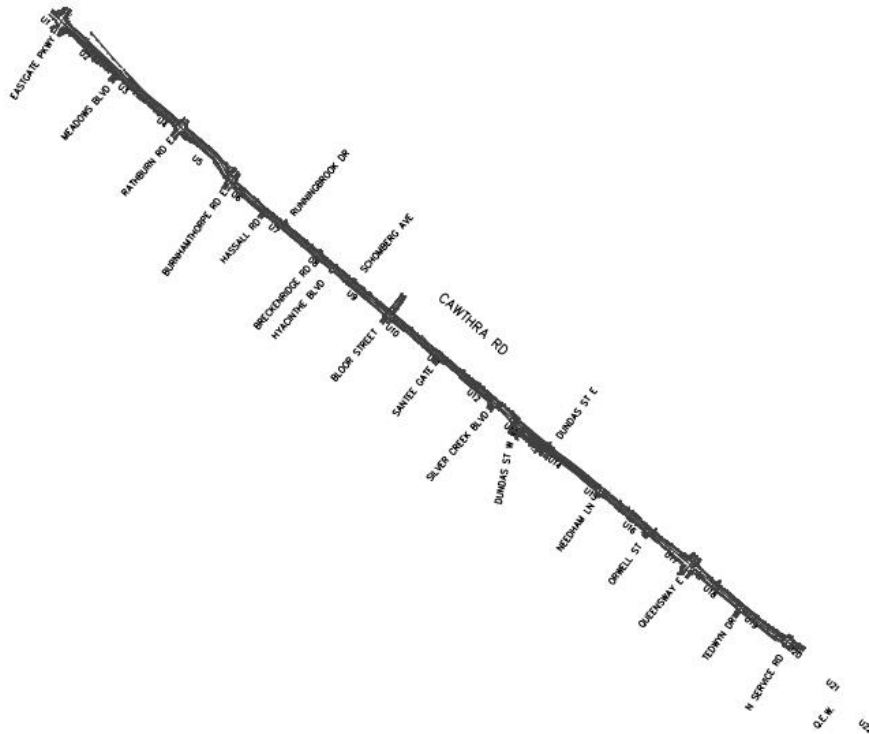


IBI GROUP

Cawthra Road – RFP 2016-006P

Report Subsurface Utility Engineering Services

Project #61001591



Report Date: March 6, 2020



Statement of Qualifications and Limitations

The attached Report (the “Report”) has been prepared by T2 Utility Engineers Inc. (“Consultant”) for the benefit of IBI Group Professional Services Inc. (“Client”) and The Regional Municipality of Peel (“Owner”). The report was prepared in accordance with the agreement between Consultant and Client (the “Agreement”), and the prime agreement between Client and Owner including the scope of work detailed therein.

The information, data, recommendations and conclusions contained in the Report (collectively, the “Information”):

is subject to the scope, schedule, and other constraints and limitations in the Agreement and the qualifications contained in the Report (the “Limitations”), represents Consultant’s professional judgement in light of the Limitations and industry standards for the preparation of similar reports, may be based on information provided to Consultant which has not been independently verified, has not been updated since the date of issuance of the Report and its accuracy is limited to the time period and circumstances in which it was collected, processed, made or issued, must be read as a whole and sections thereof should not be read out of such context, was prepared for the specific purposes described in the Report and the Agreement, in the case of subsurface conditions, may be based on limited inspections and on the assumption that such conditions are uniform and not variable either geographically or over time.

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Consultant agrees that the Report represents its professional judgement as described above and that the Information has been prepared for the specific purpose and use described in the Report and the Agreement, but Consultant makes no other representations, or any guarantees or warranties whatsoever, whether express or implied, with respect to the Report, the Information or any part thereof.

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as required by law,
for use by governmental reviewing agencies.

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This Statement of Qualifications and Limitations is attached to and forms part of the Report and any use of the Report is subject to the terms hereof.

Report Revision Log

Revision #	Revised By	Date	Issue / Revision Description
0	MJ	FEB 18/2020	FINAL

Signatures

Report Prepared By:



Michael Johnson, B.Sc
Sr. Project Manager

Acronyms and Abbreviations

ABND	Abandoned	LAT	Lateral Connection (Sewer)
AC	Asbestos Cement	LS	Light Standard (Pole)
APPROX	Approximate	MCGPR	Multi Channel Ground Penetrating Radar
BE	Buried Electrical	MET	Metallic
BFD	Bitumous Fibre Duct	MH	Maintenance Hole
BOC	Bottom of Chamber	MP	Medium Pressure (Gas)
BR	Brick	OBV	Obvert
BT	Buried Telecommunication	OPI	Outside Plant Interface
CB	Catch Basin	PE	Polyethylene
CC	Cast Iron Cement Lined	PED	Pedestal (Telecommunication)
CCTV	Closed Circuit Television	PH	Primary Hydro (Electrical)
CI	Cast Iron	PL	Plastic
COMB	Combined	P/L	Property Line
CONC	Concrete	PVC	Polyvinyl Chloride
CPP	Concrete Pressure Pipe	QL	Quality Level
CSE	Confined Space Entry	RC	Reinforced Concrete
CSP	Corrugated Steel Pipe	REF	Reference
CU	Copper	SAN	Sanitary
DBC	Direct Buried Cable	S C&W	Steel Coated & Wrapped
DI	Ductile Iron	SC	Steel Coated
DI	Ditch Inlet	S CT	Steel Coated
EOP	Edge of Pavement	SH	Secondary Hydro (Electrical)
EOS	End of Signal	SL	Street Light
EXP	Exploratory	SSA	Support Structures Agreement
FDC	Foundation Drain Collector	ST	Steel
FDI	Fiber Distribution Interface	STM	Storm
FH	Fire Hydrant	SUE	Subsurface Utility Engineering
FM	Flush Mount	S YJ	Steel Yellow Jacketed
FOC	Fiber Optic Cable	TCB	Traffic Control Box
FOTS	Fiber Optic Transmission System	TEL	Telecommunication
FRE	Fiberglass Reinforced Epoxy	TH	Test Hole
FTG	Flush to Grade (Pedestal)	TL	Traffic Light
G	Gas (Natural Gas)	TOP	Top of Pipe
GLB	Grade Level Box	TRS	Transite
GPR	Ground Penetrating Radar	TS	Traffic Signal
GPS	Global Positioning System	TV	Cable Television
GRP	Glass Fiber Reinforced Plastic	TX	Transformer
GS	Gas Service	UP / UTP	Utility Pole
GV	Gas Valve	UNK	Unknown
HDPE	High Density Poly Ethylene	VC	Vitrified Clay
HP	High Pressure (Gas)	WC	Water Chamber
HW	Hand Well	WK	Water Service Key
HYD	Hydrant	WM	Water Main
INV	Invert	WS	Water Service
IP	Intermediate Pressure (Gas)	WV	Water Valve
JUT	Joint Utility Trench	XHP	Extra High Pressure

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Appendix A – SUE Mapping Drawing

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1. Project Summary

T2 Utility Engineers (T2) completed a Subsurface Utility Engineering (SUE) investigation in accordance with Construction Institute/American Society of Civil Engineers (CI/ASCE) Standard 38-02, for IBI Group Professional Services Inc. (IBI). IBI's project is corridor and intersection improvements of Cawthra Rd. in Mississauga. The objective of the SUE investigation is to identify the alignment of existing mainline utilities and utility crossings that may impact the project and reduce the uncertainty that existing utilities create on the project. T2's investigation involves Record Request Circulation and Utility Designating.

1.1 Project Area

Cawthra Rd. (Peel RR17) is a 4 lane arterial road running north-south with center turn lane in areas and dedicated left and right turn lanes with islands at major intersections. The project area is between Eastgate Rd. and Queen Elizabeth Way (QEW). The project area is largely a residential at the south and commercial at the north. Boulevards within the majority of the project area are grass with concrete sidewalk.

Underground utilities within the project area include:

- Alectra and Hydro One electric power
- Bell, Cogeco, Rogers and Telus telecommunications
- Enbridge natural gas mains
- Transnorthern natural gas/oil pipelines
- Municipal watermains
- Municipal sanitary and storm sewers

1.2 Limits of Investigation

The limits of field investigation are as described below:

- Cawthra Rd., from South Service Rd. to Eastgate Parkway
 - Full length study QLD investigation
 - QLB investigation
 - Station 10+100 to 10+250
 - Station 10+400 to 10+600
 - Station 10+640 to 10+680
 - Station 10+900 to 12+000
 - Station 12+100 to 12+300
 - Station 12+550 to 13+100
 - Station 13+100 to 13+280

2. Equipment and Techniques

The following paragraphs provide a description of the equipment and techniques used by T2 to complete the investigation. T2 used the latest equipment and techniques available to designate varieties of subsurface utilities and underground structures. The merits of each technology are assessed as outlined in the CI/ASCE Standard 38-02 and CSA S250-11 for use in utility designating. Field Technicians utilized each technology according to the manufacturer's instructions and the project conditions. Based on the project scope and discussions with IBI, T2 selected the appropriate equipment to gather the required information to assist with the designation of underground utilities.

2.1 Electromagnetic Designating Equipment

T2 used single frequency and multi-frequency electromagnetic designating equipment. Electromagnetic designating equipment did not locate the actual pipes or cables, but instead located the magnetic fields. Electromagnetic fields were either naturally present on conductors or were induced onto a target line using a transmitter. Signals may have been distorted by any of the following:

- Ground conductivity
- Construction layout (i.e. bends, connections)
- Utility congestion causing bleed off of magnetic fields
- Materials and/or age (i.e. PVC without tracer wire, corrosion in metallic pipes)
- Construction debris, overhead wires, conductive structures (i.e. reinforcing bars, guard rails)

2.2 Survey Technologies

T2 utilized Global Positioning System (GPS) based survey equipment to collect the field information using recognized industry best practices. T2 survey crews collected the field data (i.e. designating marks, reference pins) from the SUE investigation using the established project control provided by the client.

3. SUE Investigation Methodology

T2 Utility Engineers Inc. performed SUE investigations in accordance with the CI/ASCE Standard 38-02: Standard Guideline for the Collection and Depiction of Existing Subsurface Utility.

3.1 CI/ASCE Standard 38-02 Summary:

All utility information was assigned a quality level in accordance with the CI/ASCE Standard 38-02:

Quality Level D (QL-D)	Information derived from existing utility records, or verbal recollections.
Quality Level C (QL-C)	Information obtained by surveying and plotting visible above-ground utility features and used professional judgment in correlating information to Quality Level D information.
Quality Level B (QL-B)	Information obtained through the application of appropriate surface geophysical methods to determine the existence and approximate horizontal position of subsurface utilities.
Quality Level A (QL-A)	Precise horizontal and vertical location of utilities obtained by the actual exposure (or verification of previously exposed and surveyed utilities) and subsequent measurement of subsurface utilities, usually at a specific point.

3.2 SUE Investigation Scope of Work

The following is a breakdown of the methodology used for the SUE investigation:

- Records research completed by T2 included the review of record documents obtained through the Utility Circulation Request (see Appendix B), information received from IBI and gathered records information for the entire project area.
- IBI provided T2 with a base map for the area that is tied into proper coordinate systems (horizontal and vertical survey control points within the project area) including:
 - Surface topographical features: curbs, asphalt, buildings, utility poles, signs, CB's, MH's, etc.
 - Surface topographic detail to measure the visible surface features including sufficient overlap onto adjacent properties.
- Utilized the topographic survey information provided to verify the position of surface features such as valves and pedestals that indicate the possible presence of underground utilities.
- Utilized geophysical utility designating techniques to determine the horizontal position of conductive utilities identified within the project limits. Utilities investigated included water, gas, electric power and telecommunications. The investigation also included induction scanning in key areas to help identify utilities that were not identified on the record drawings. Equipment used included single frequency and multi-frequency electromagnetic designating equipment.

- Conductive signals that were not identified by the records research are termed “unknown”. T2 used reasonable means in an attempt to determine the existence of unknowns however cannot certify that all utilities within the project limits were identified and depicted.
- All designating marks were collected with survey equipment. The information was referenced into the provided topographic base map using the established Project Control (horizontal and vertical coordinates).
- T2 produced the SUE Mapping Drawing (Quality Level D, C and B as per CI/ASCE Standard 38-02) showing the horizontal alignment of the underground utilities at the described quality level over the project area.

4. Utility Circulation Request

T2 completed the utility circulation request on September 10, 2019. Record documents have been provided by the utility companies for the project area. Additional records for municipal infrastructure and private utilities were provided by IBI. A summary of the Utility Circulation Request completed by T2 is attached in Appendix B.

5. Field Investigation and Analysis

The field investigation was completed in January 2020 within the limits described above. The details are provided in the following sections. Refer to the SUE Mapping Drawings (Appendix A) for details.

Winter conditions, during the time of the field investigation within the project resulted in heavy ice and snow build up. T2 have made every attempt to complete a thorough inspection, however the results of the investigation may be affected by hidden or buried utility features (i.e. valves, pedestals, chamber lids).

In areas where an “END OF SIGNAL” note is shown the information collected in the field has been unable to designate the alignment beyond a specific point (as shown). In cases where records are available the alignment has been shown according to the available information. Where no further information exists the alignment should be investigated further to determine if the buried conductive ends at this location or continues beyond where no signal could be detected from the surface.

The topographic survey that was provided contained several missing features (i.e. Water chambers, Water Valves, Pedestals, and Maintenance Holes). T2 has included notes where possible to highlight the missing information. These notes should be reviewed to ensure accuracy of the topographic survey and the location of the associated underground features. No topographic survey information was provided for the area south of North Service Rd. QL-D (record) information for this area has not been shown. Only QL-B (field verified) surveyed alignments are shown in this area.

At the time of the field investigation, the northeast corner of the Bloor St. and Cawthra Rd. intersection was not able to be accessed due to construction activity. This area has been noted on the SUE Mapping Drawings. Additional investigations may be required when the construction is complete to ensure any changes to the buried utilities are captured accurately.

Utility Ownership shown on the drawings has been indicated based on record information and field investigations. Leasing agreements between the utility companies for joint use structures may exist throughout the project area. Ownership that has been indicated on the drawings may need to be verified with the individual utility owners for pending sales, transfer of ownership and leasing agreements.

The alignment of the buried utilities shown on the SUE Mapping Drawings are not intended to accurately locate connection details, unless they have been visually verified and exposed with test holes. Alignments that have been designated in the field and shown on the drawings are not intended to depict the connection detail (i.e. BEND, ELBOW, TEE or CROSS). Further investigations may be required to confirm the connection details and precise locations of connections.

5.1 Municipal Watermains

Watermains within the project area are owned and operated by Peel Region for large trunk distribution and local distribution mains.

Watermain connections at the intersections of Rathburn Rd. E, Burnhamthorpe Rd. E, Bloor St. and Queensway E have been shown based on records information and professional judgement. If critical, further investigation is required to confirm the information shown based on records.

5.2 Municipal Sewers

Sewers within the project area are owned and operated by Peel Region for Storm and Sanitary Sewers.

Sewer connections in the intersection of Cawthra Rd. and Burhamthorpe Rd. E are inconsistent with records. Field investigations are recommended.

Records indicate a 1500 sanitary sewer installation along Cawthra Rd. The proposed alignment has been shown where record information indicates.

Alignments of the sewers are shown on the drawings based on record information only. Field investigations did not include sewer chambers and alignments.

5.3 Pipelines

Pipelines at the south of the project limit, north of North Service Rd. are owned and operated by Transnorthern Pipelines Inc., within an easement. The alignment of the pipelines have been shown on the SUE Mapping Drawings.

5.4 Buried Electrical

Electric Power within the project area is primarily owned and operated by Alectra. Alectra plant includes overhead and underground primary distribution, secondary services, street lighting and service connections to public and private properties. Hydro One plant includes overhead and underground transmission lines.

Records obtained by T2 indicated Hydro One plant was present alongside the pipelines, north of North Service Rd., crossing Cawthra Rd.. Field investigations were unable to confirm the alignment of the Hydro One. Areas where the plant was unable to be designated have been shown according to the record information.

5.5 Telecommunications

Telecommunications within the project area is owned and operated by several companies: Bell, Cogeco, Rogers and Telus.

At the time of investigation, up to date records were not provided by Bell.

Areas where the plant was unable to be designated have been shown according to the record information.

5.6 Unknown Conductive Signals

Field investigation confirmed several unknown conductive signals within the project limits. T2 is unable to verify the ownership, material or size of the unknowns based on records information. Further investigation would be required to determine the material and size and assist in gathering additional information or possibly identifying the unknown conductive signals.

6. Conclusion

The SUE investigation for this project provided key information regarding the location of the existing underground utilities to be used during the design and construction of the road and intersection improvements. A combination of data from the field investigations and utility record information was used to create the SUE Mapping Drawings (as per CI/ASCE Standard 38-02). The SUE Mapping Drawings show the horizontal alignment of the underground utilities at the described quality level over the project area.

The data currently shown on the SUE Mapping Drawing will provide the designers adequate information to move forward with the design. During detailed design additional test holes or additional investigations may be required to further define any new areas that may be considered if revisions are made.

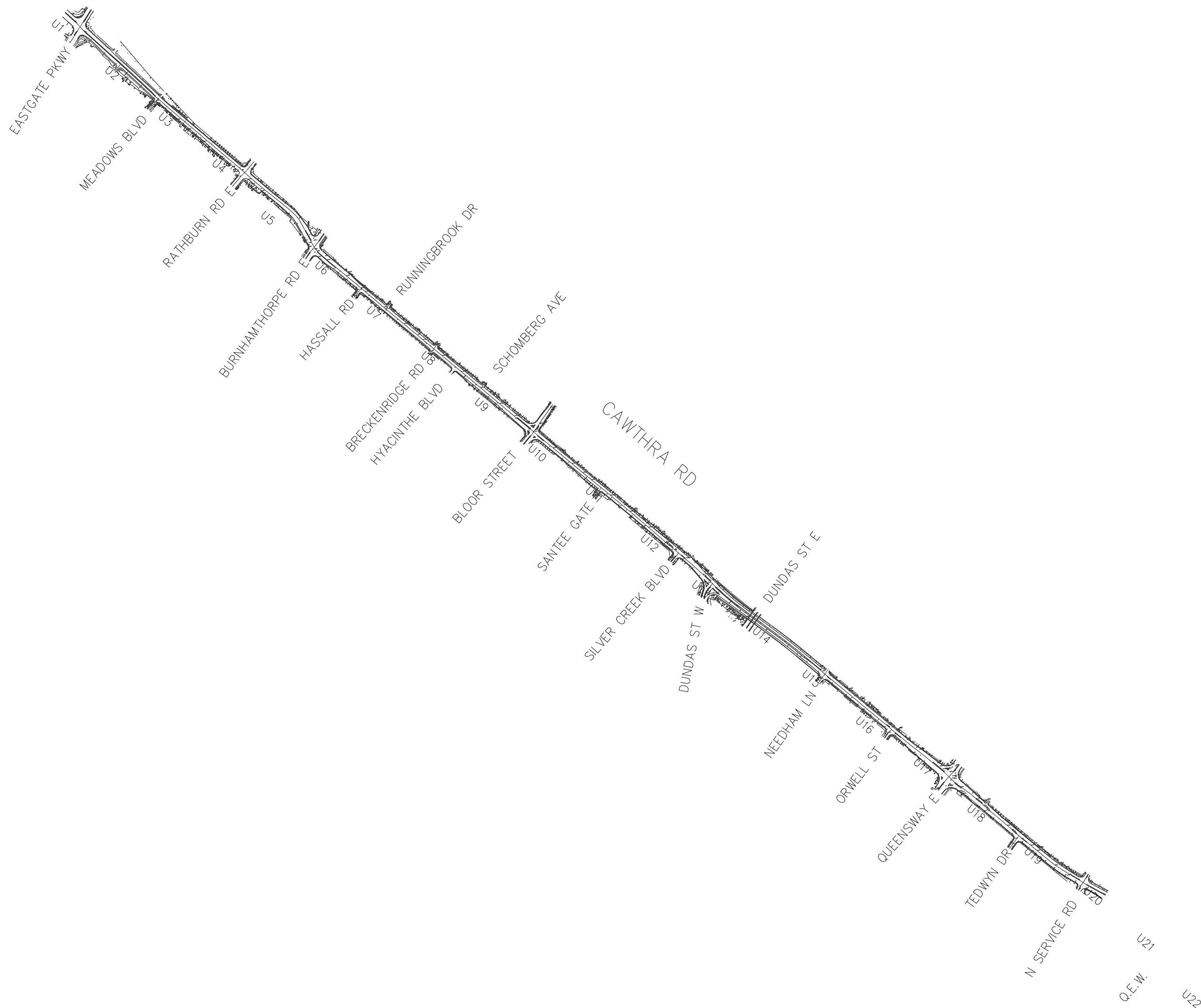
T2 provides services for the coordination of utility relocations or protection requirements as a result of design or construction methodology. Identifying utility relocation requirements early in the design process will help to reduce the impact of utilities during the construction. Many utility companies will require advance notice for capital planning and approvals prior to relocation of the existing plant.

The Utility Record Circulation provided information on the known plant within the project area. At the time of the investigation, records were not provided by Bell Telecommunications. T2's SUE investigation was able to designate the majority of the utilities within the specified areas as QL-B. Sewer alignments are shown based on records information only. The remaining alignment has been shown according to the record information (QL-D).

T2 recommends additional investigations for consideration by IBI to further reduce uncertainty including:

- Chamber Investigations for main line storm and/or sanitary sewers within the project area. In areas where new construction is proposed in close proximity to the existing structures the size of chamber should be accommodated for in the design to avoid conflicts with the chamber structure. Investigation to include confined space entry (if required) to obtain internal chamber dimensions.
- Test holes to confirm size, material and precise horizontal and vertical alignment, final locations to be confirmed by IBI. Locations may include conflict locations, utility crossings, connection points or to confirm record information and alignment shown on the SUE Mapping Drawings.
- Test holes to confirm the existing connections present (ie. BEND, ELBOW, TEE CROSS) or proposed tie in locations to verify the precise horizontal and vertical alignment. Note that locations may require isolation and de-energizing of the pressurized system where restrained connections or thrust blocks may be disturbed.
- CCTV inspections of the sewers may assist in identifying the location of service lateral connections within the main that have not been included the record information, or shown in the wrong location.
- Topographic survey of the area south of North Service Rd.
- QL-B (field verification) investigations of additional critical areas or the entire project limits.

APPENDIX A
SUE MAPPING DRAWING



KEY PLAN (N.T.S.)

REVISIONS		
DATE	DETAILS	INIT.

LEGEND

G	GAS
GS	GAS SERVICE
W	WATER
WS	WATER SERVICE
SAN	SANITARY SEWER
SANL	SANITARY LATERAL
STW	STORM SEWER
STWL	STORM LATERAL
H	BURIED ELECTRIC
TL	TRAFFIC LOOP
SL	STREET LIGHTING
UNK	UNKNOWN
FOC	FIBRE OPTIC CABLE
TV	CABLE TV
B	BURIED TELECOMMUNICATIONS
---	QUALITY LEVEL "B"
---x---	QUALITY LEVEL "C"
---x---x---	QUALITY LEVEL "D"
- - - - -	LIMIT OF INVESTIGATION

⊙	PREMARKED TEST HOLE
S	LOSS OF SIGNAL
*	NOT SURVEYED, LOCATION BASED ON FIELD OBSERVATION
#	NOT SURVEYED, LOCATION BASED ON RECORD INFORMATION
ABND	ABANDONED
→	FLOW ARROW

ASCE QUALITY LEVELS

THE UTILITY INFORMATION SHOWN ON THIS DRAWING WAS COLLECTED IN ACCORDANCE TO ASCE STANDARD 38-02. THE INFORMATION IS SHOWN BY QUALITY LEVEL WHICH INDICATES THE LEVEL OF EFFORT USED TO DETERMINE THE LOCATION OF THE DATA

QUALITY LEVEL "D" - INFORMATION DERIVED FROM EXISTING RECORDS OR VERBAL RECOLLECTIONS.

QUALITY LEVEL "C" - INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION TO THE QUALITY LEVEL "D" INFORMATION.

QUALITY LEVEL "B" - INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF THE UTILITIES.

QUALITY LEVEL "A" - PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES.

THE ENGINEER'S SEAL HEREON IS TO CERTIFY THAT THE UTILITIES SHOWN HAVE BEEN INVESTIGATED IN ACCORDANCE WITH STANDARD SUE INDUSTRY PRACTICES. ALL OTHER INFORMATION HEREON HAS BEEN PROVIDED BY OTHERS AND IS NOT A PART OF THIS CERTIFICATION.

DISCLAIMER:

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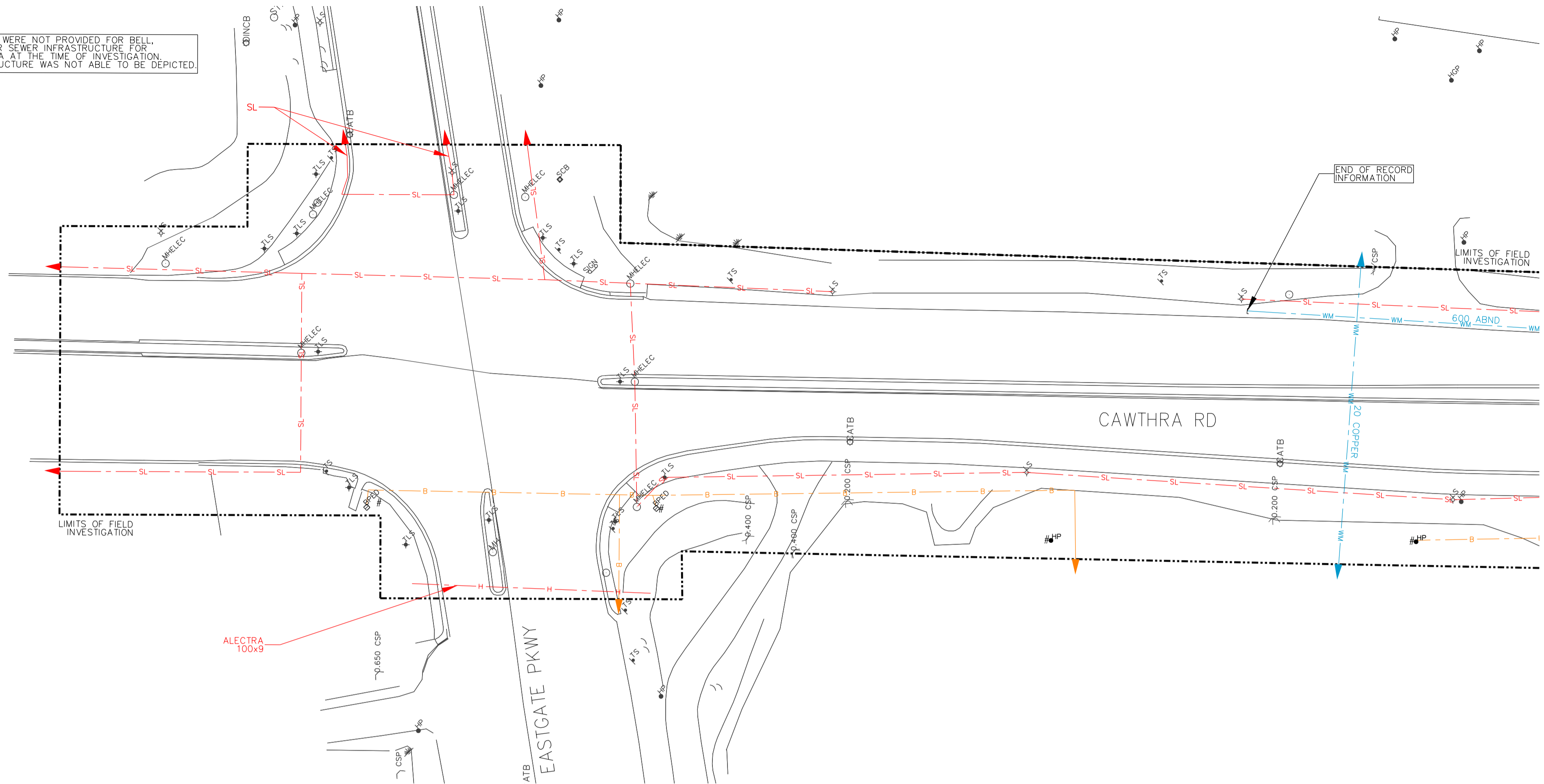
**Cawthra Road
2016-006P**

**SUBSURFACE UTILITY
ENGINEERING INVESTIGATION**

CAD Area	Area	Project No.	61001591
Checked by	Drawn by K.F.	Sheet	COVER
Date FEB. 7 2020	Sheet	Plan No.	UO

- GENERAL NOTES**
- T2 UTILITY ENGINEERS (T2UE) SUE FIELD INVESTIGATION WAS COMPLETED IN NOVEMBER 2019 - JANUARY 2020. CHANGES TO UTILITIES THAT OCCURRED FOLLOWING OUR INVESTIGATION MAY NOT BE SHOWN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN PRIOR TO FINAL DESIGN AND CONSTRUCTION.
 - LIMIT OF INVESTIGATION: AS INDICATED ON DRAWING.
 - FIELD VERIFICATION OF UTILITIES WAS COMPLETED USING A COMBINATION OF ELECTROMAGNETIC PIPE AND CABLE LOCATE EQUIPMENT.
 - EMPTY CONDUITS, SERVICES, STREET LIGHTING CABLES, LATERALS TO BUILDINGS, ABANDONED FACILITIES, WITHIN THE INVESTIGATION AREA MAY NOT BE SHOWN ON THE DRAWING.
 - T2UE USED AVAILABLE MEANS IN AN ATTEMPT TO DETERMINE THE LOCATION OF UNDOCUMENTED UTILITIES HOWEVER CANNOT BE RESPONSIBLE FOR FINDING ALL UNDOCUMENTED UTILITIES.
 - THE BASEPLAN WAS PROVIDED BY THE CLIENT, THEREFORE T2UE IS NOT RESPONSIBLE FOR ITS ACCURACY.
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 - UTILITY OWNERSHIP SHOWN ON DRAWING IS BASED ON RECORDS INFORMATION RECEIVED, PROFESSIONAL JUDGEMENT, OR FIELD OBSERVATIONS.

RECORDS WERE NOT PROVIDED FOR BELL, WATER OR SEWER INFRASTRUCTURE FOR THIS AREA AT THE TIME OF INVESTIGATION. INFRASTRUCTURE WAS NOT ABLE TO BE DEPICTED.



REVISIONS		
DATE	DETAILS	INIT.

LEGEND	
	GAS
	GAS SERVICE
	WATER
	WATER SERVICE
	SANITARY SEWER
	SANITARY LATERAL
	STORM SEWER
	STORM LATERAL
	BURIED ELECTRIC
	TRAFFIC LOOP
	STREET LIGHTING
	UNKNOWN
	FIBRE OPTIC CABLE
	CABLE TV
	BURIED TELECOMMUNICATIONS
	QUALITY LEVEL "B"
	QUALITY LEVEL "C"
	QUALITY LEVEL "D"
	LIMIT OF INVESTIGATION
	TEST HOLE
	LOSS OF SIGNAL
	NOT SURVEYED, LOCATION BASED ON FIELD OBSERVATION
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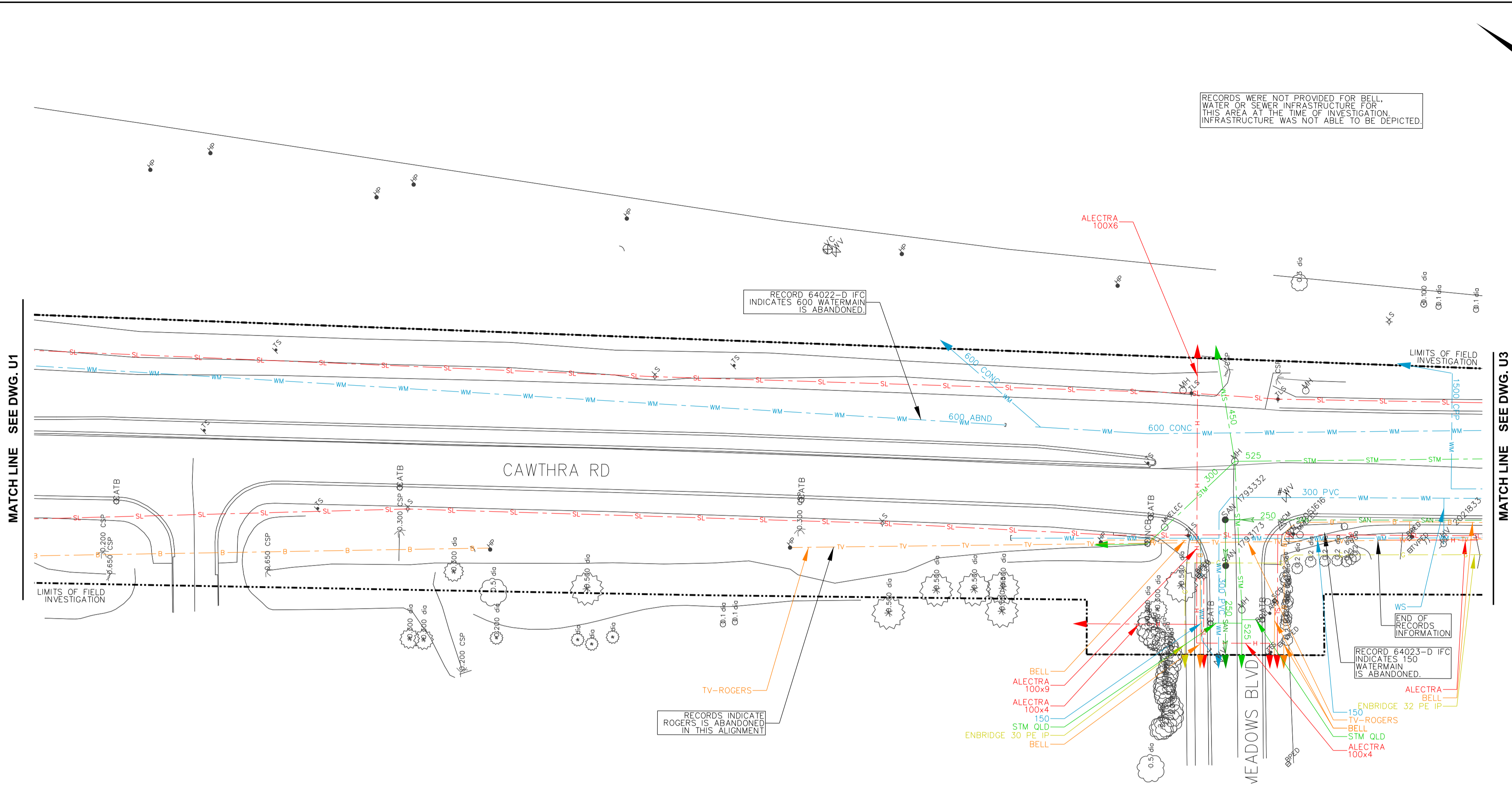
**Cawthra Road
2016-006P**

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ENGINEERING INVESTIGATION**

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CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	1 of 22
		Plan No.	U1



KEY PLAN (N.T.S.)

REVISIONS		
DATE	DETAILS	INIT.

LEGEND

- GAS
- GAS SERVICE
- WATER
- WATER SERVICE
- SANITARY SEWER
- SANITARY LATERAL
- STORM SEWER
- STORM LATERAL
- BURIED ELECTRIC
- TRAFFIC LOOP
- STREET LIGHTING
- UNKNOWN
- FIBRE OPTIC CABLE
- CABLE TV
- BURIED TELECOMMUNICATIONS
- QUALITY LEVEL "B"
- QUALITY LEVEL "C"
- QUALITY LEVEL "D"
- LIMIT OF INVESTIGATION

TEST HOLE

- LOSS OF SIGNAL
- NOT SURVEYED, LOCATION BASED ON FIELD OBSERVATION
- NOT SURVEYED, LOCATION BASED ON RECORD INFORMATION
- ABANDONED
- FLOW ARROW

ASC QUALITY LEVELS

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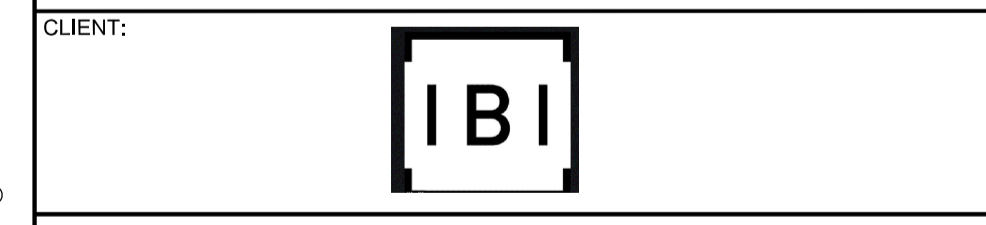
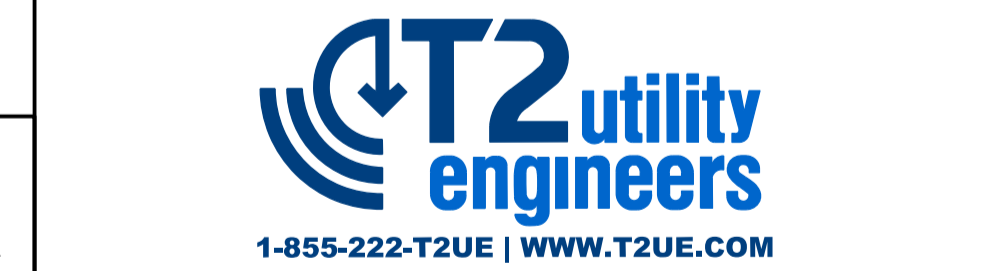
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2016-006P**

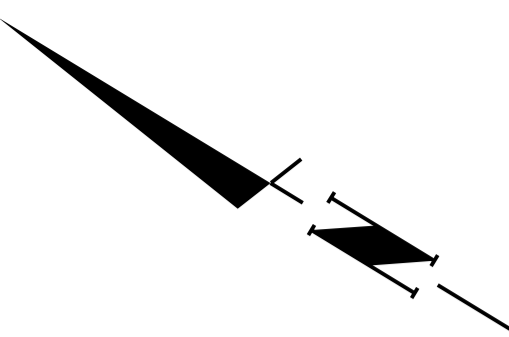
**SUBSURFACE UTILITY
ENGINEERING INVESTIGATION**

CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	2 of 22
		Plan No.	U2

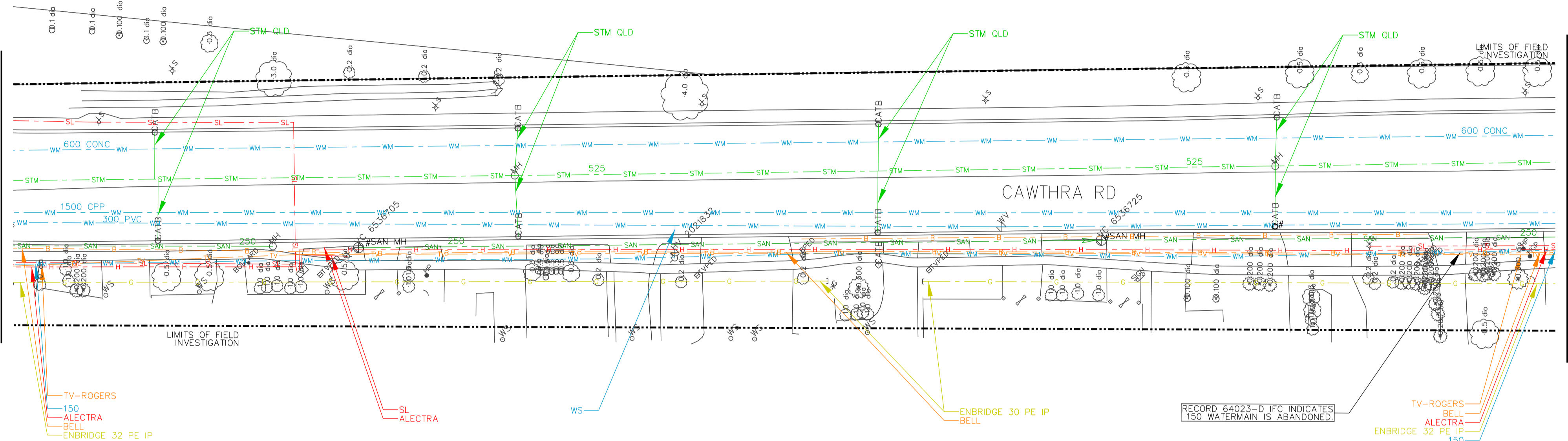
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RECORDS WERE NOT PROVIDED FOR BELL WATER OR SEWER INFRASTRUCTURE FOR THIS AREA AT THE TIME OF INVESTIGATION. INFRASTRUCTURE WAS NOT ABLE TO BE DEPICTED.



MATCH LINE SEE DWG. U2



MATCH LINE SEE DWG. U4

KEY PLAN (N.T.S.)

REVISIONS		
DATE	DETAILS	INIT.

LEGEND

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—GS—	GAS SERVICE
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—FOC—	FIBRE OPTIC CABLE
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—xxx—	QUALITY LEVEL "B"
—xxx—	QUALITY LEVEL "C"
—xxx—	QUALITY LEVEL "D"
---	LIMIT OF INVESTIGATION

⊙	TEST HOLE
⋄	LOSS OF SIGNAL
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CLIENT:

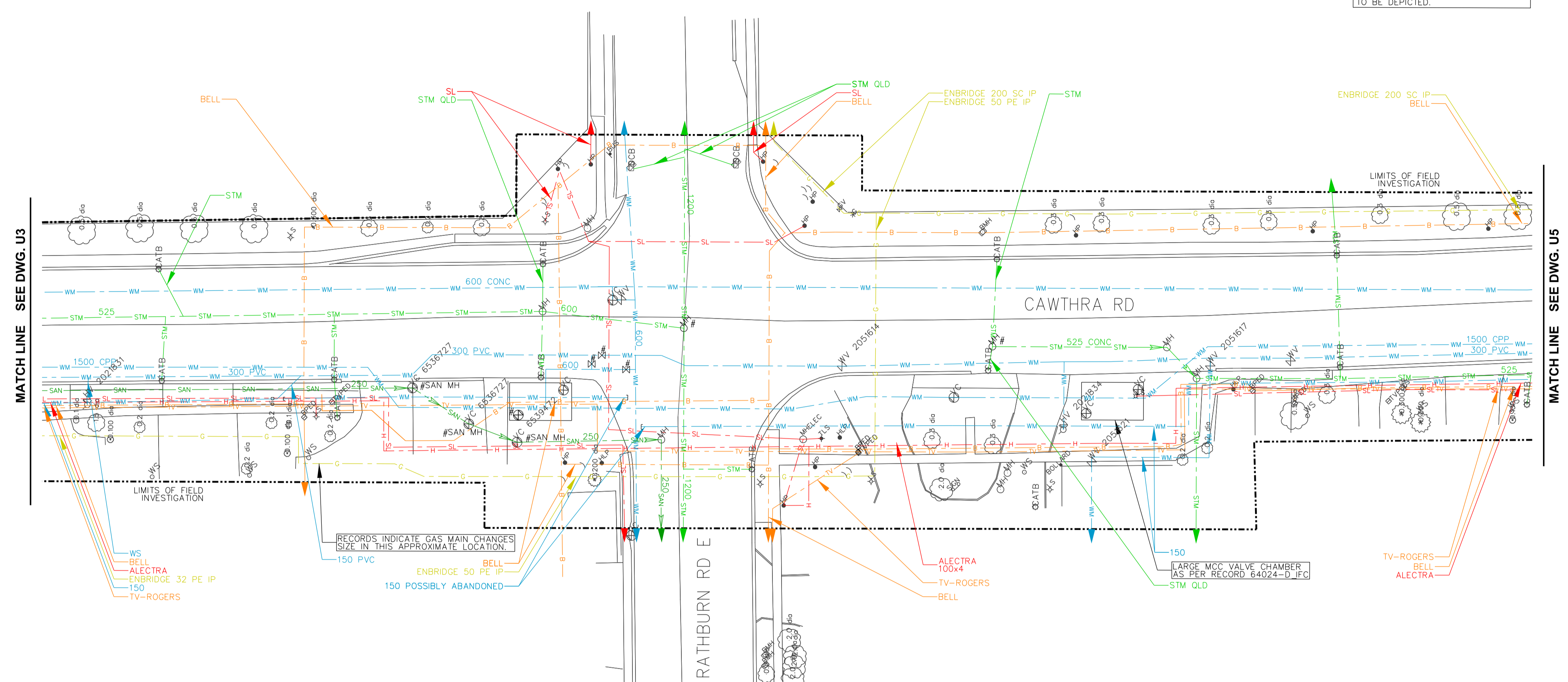
**Cawthra Road
2016-006P**

**SUBSURFACE UTILITY
ENGINEERING INVESTIGATION**

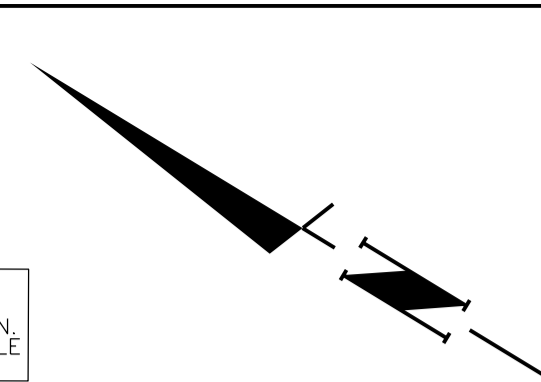
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CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	3 of 22
		Plan No.	U3



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MATCH LINE SEE DWG. U3

MATCH LINE SEE DWG. U5

KEY PLAN (N.T.S.)

REVISIONS		
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—xxx—	QUALITY LEVEL "C"
—xxx—	QUALITY LEVEL "D"
---	LIMIT OF INVESTIGATION
⊙	TEST HOLE
⊙	LOSS OF SIGNAL
⊙	NOT SURVEYED, LOCATION BASED ON FIELD OBSERVATION
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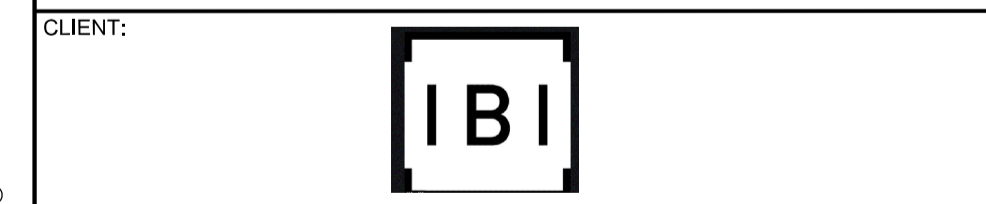
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Region of Peel
Working for you

**Cawthra Road
2016-006P**

**SUBSURFACE UTILITY
ENGINEERING INVESTIGATION**

CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	4 of 22
		Plan No.	U4

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RECORDS INDICATE GAS MAIN CHANGES SIZE IN THIS APPROXIMATE LOCATION.

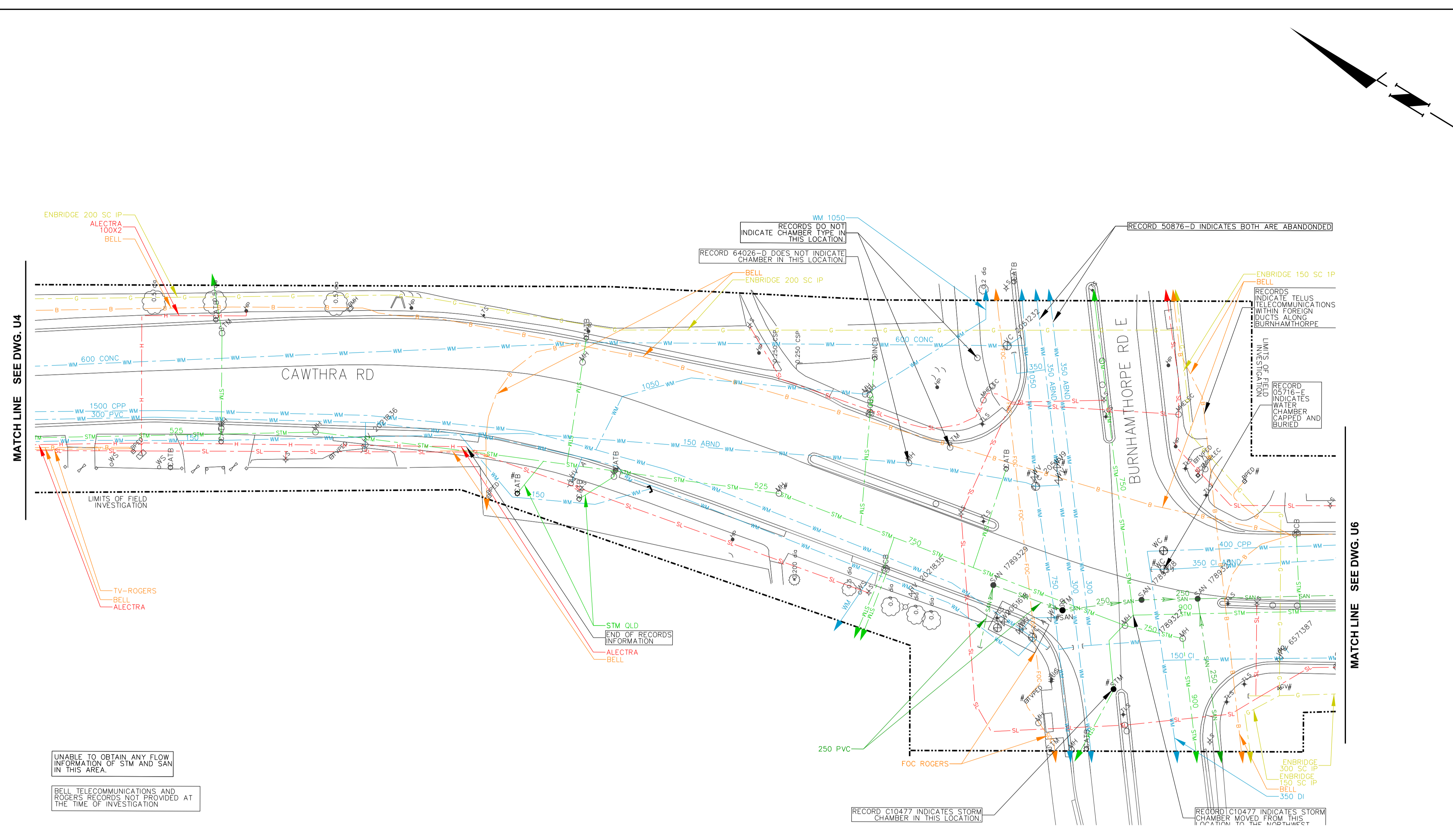
LARGE MGC VALVE CHAMBER AS PER RECORD 64024-D-IFC

150 POSSIBLY ABANDONED

WS
BELL
ALECTRA
ENBRIDGE 32 PE IP
150
TV-ROGERS

ALECTRA
100x4
TV-ROGERS
BELL

TV-ROGERS
BELL
ALECTRA



KEY PLAN (N.T.S.)

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---	LIMIT OF INVESTIGATION

TEST HOLE

LOSS OF SIGNAL

NOT SURVEYED, LOCATION BASED ON FIELD OBSERVATION

NOT SURVEYED, LOCATION BASED ON RECORD INFORMATION

ABND

FLOW ARROW

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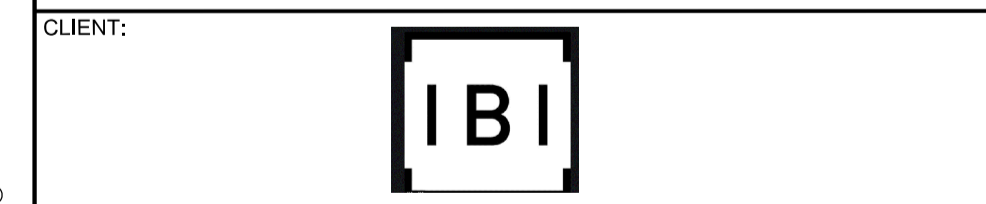
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SUBSURFACE UTILITY
ENGINEERING INVESTIGATION

CAD Area	Area	Project No.	61001591
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Date	FEB. 7 2020	Sheet	5 of 22
		Plan No.	U5

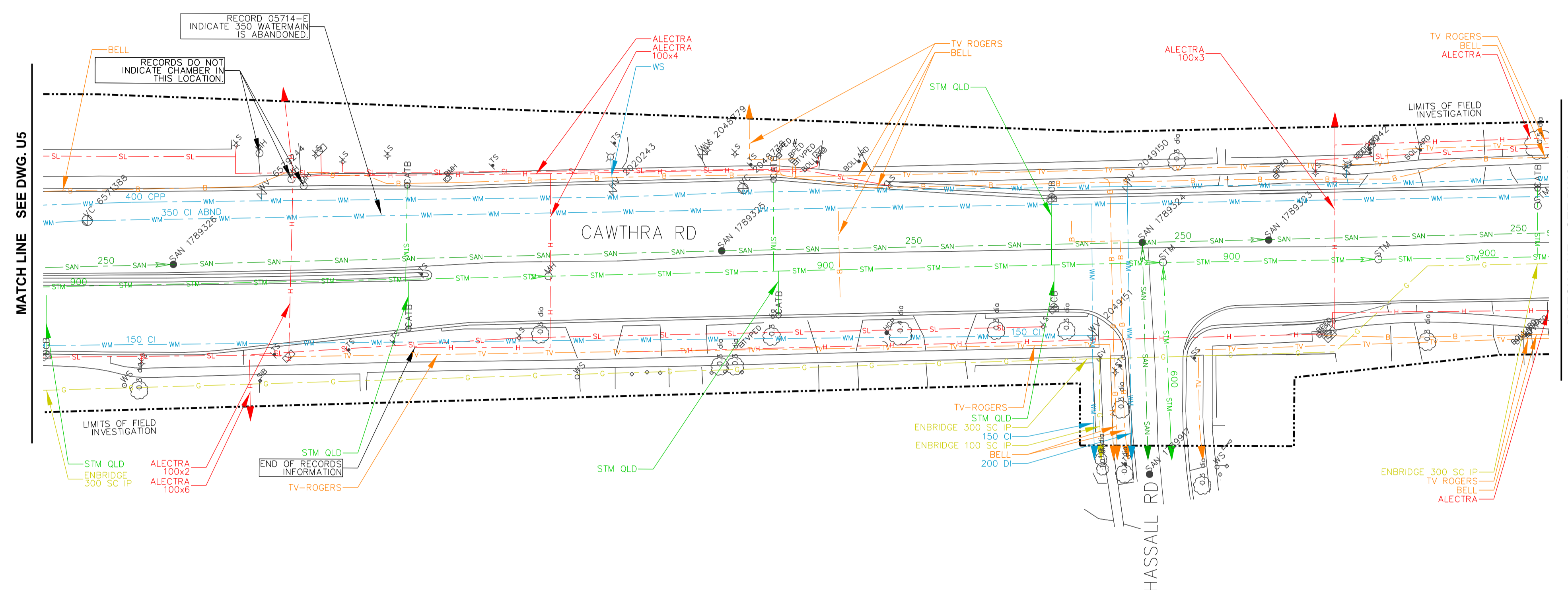
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UNABLE TO OBTAIN ANY FLOW INFORMATION OF STM AND SAN IN THIS AREA.

BELL TELECOMMUNICATIONS AND ROGERS RECORDS NOT PROVIDED AT THE TIME OF INVESTIGATION

RECORD C10477 INDICATES STORM CHAMBER MOVED FROM THIS LOCATION TO THE INTERSECTION



KEY PLAN (N.T.S.)

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TEST HOLE

- § LOSS OF SIGNAL
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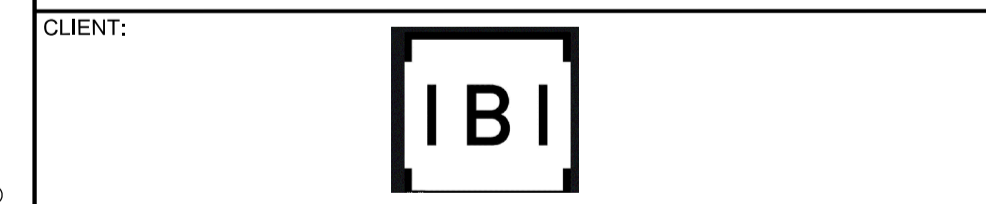
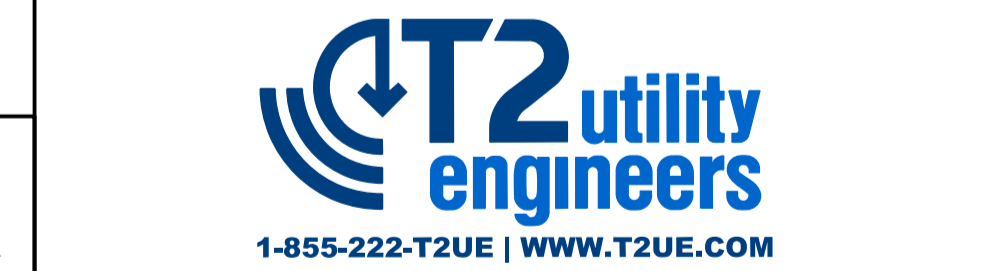
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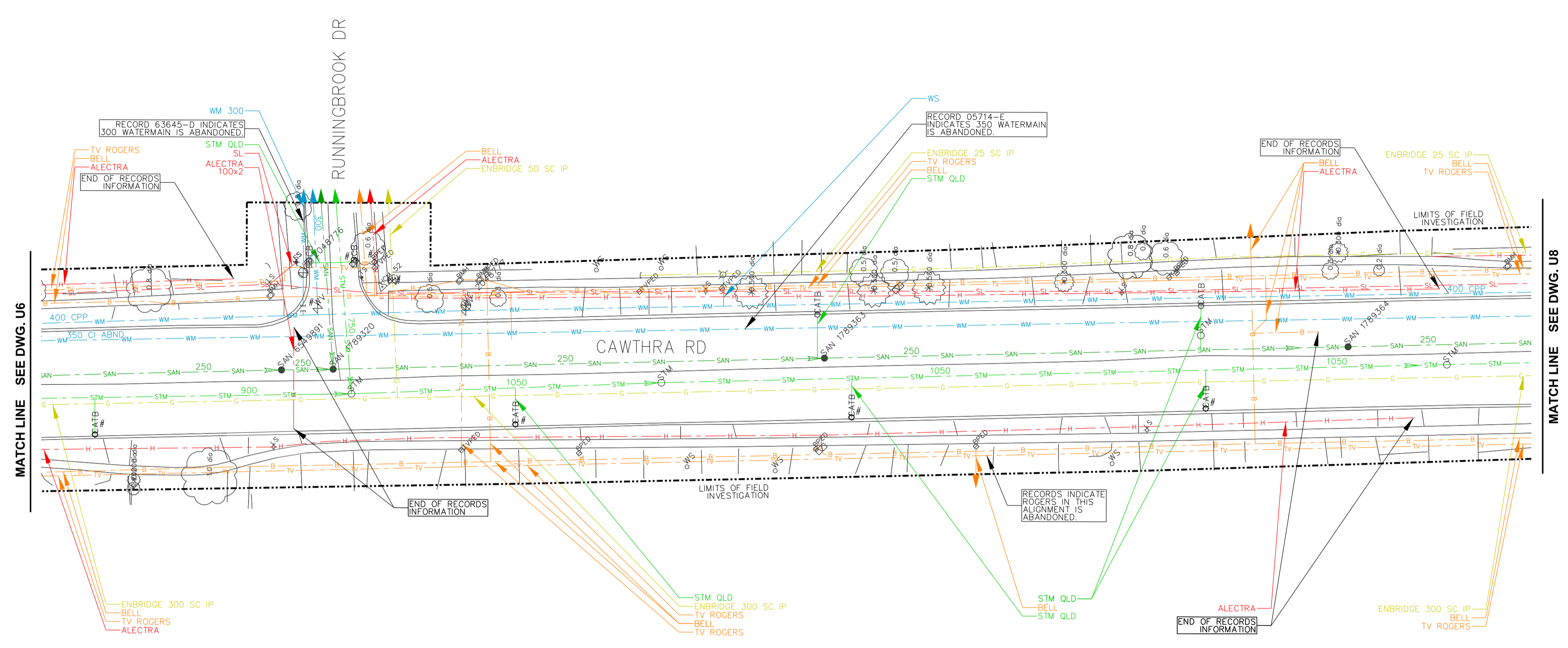
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**SUBSURFACE UTILITY
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CAD Area	Area	Project No.	61001591
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Date	FEB. 7 2020	Sheet	6 of 22
		Plan No.	U6



KEY PLAN (N.T.S.)

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—B—	BURIED TELECOMMUNICATIONS
—xxx—	QUALITY LEVEL "B"
—xxx—	QUALITY LEVEL "C"
—xxx—	QUALITY LEVEL "D"
---	LIMIT OF INVESTIGATION
⊙	TEST HOLE
⋄	LOSS OF SIGNAL
•	NOT SURVEYED, LOCATION BASED ON FIELD OBSERVATION
#	NOT SURVEYED, LOCATION BASED ON RECORD INFORMATION
ABND	ABANDONED
→	FLOW ARROW

ASCE QUALITY LEVELS

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CLIENT:

Region of Peel
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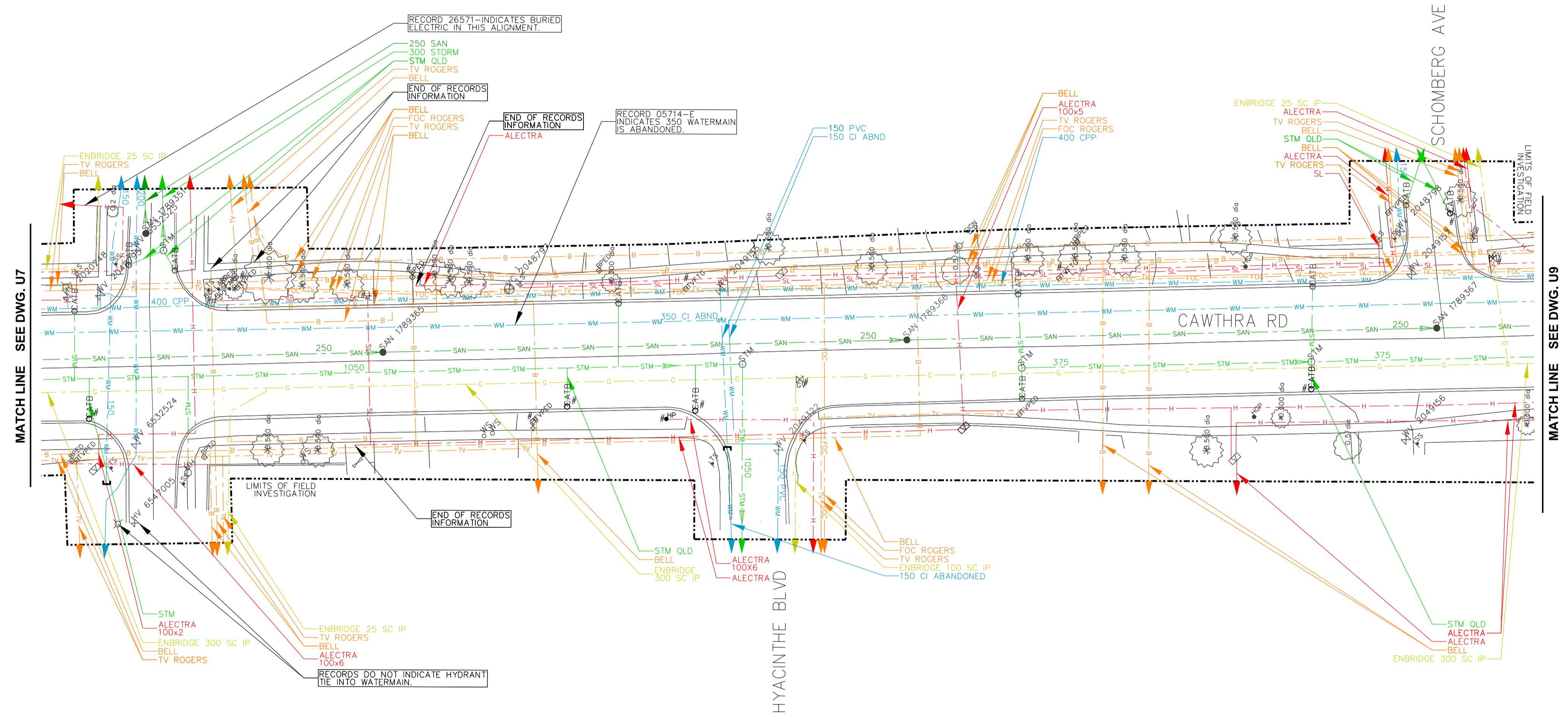
**Cawthra Road
2016-006P**

**SUBSURFACE UTILITY
ENGINEERING INVESTIGATION**

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CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	7 of 22
		Plan No.	U7



KEY PLAN (N.T.S.)

REVISIONS		
DATE	DETAILS	INIT.

LEGEND

—G—	GAS
—GS—	GAS SERVICE
—WM—	WATER
—WS—	WATER SERVICE
—SAN—	SANITARY SEWER
—SAN—	SANITARY LATERAL
—STM—	STORM SEWER
—STM—	STORM LATERAL
—H—	BURIED ELECTRIC
—TL—	TRAFFIC LOOP
—SL—	STREET LIGHTING
—UNKN—	UNKNOWN
—FOC—	FIBRE OPTIC CABLE
—TV—	CABLE TV
—B—	BURIED TELECOMMUNICATIONS
—xxx—	QUALITY LEVEL "B"
—xxx—	QUALITY LEVEL "C"
—xxx—	QUALITY LEVEL "D"
---	LIMIT OF INVESTIGATION
⊙	TEST HOLE
⊙	LOSS OF SIGNAL
⊙	NOT SURVEYED, LOCATION BASED ON FIELD OBSERVATION
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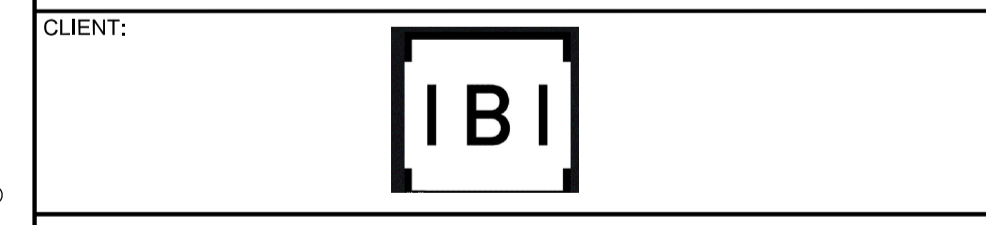
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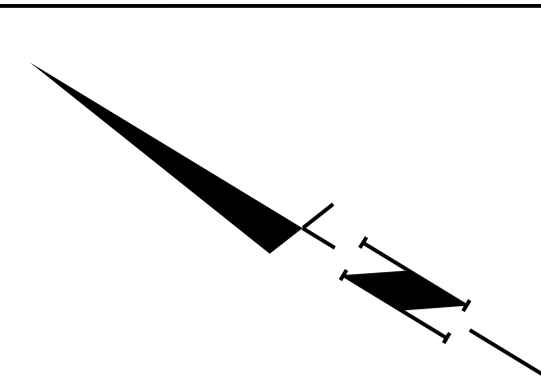
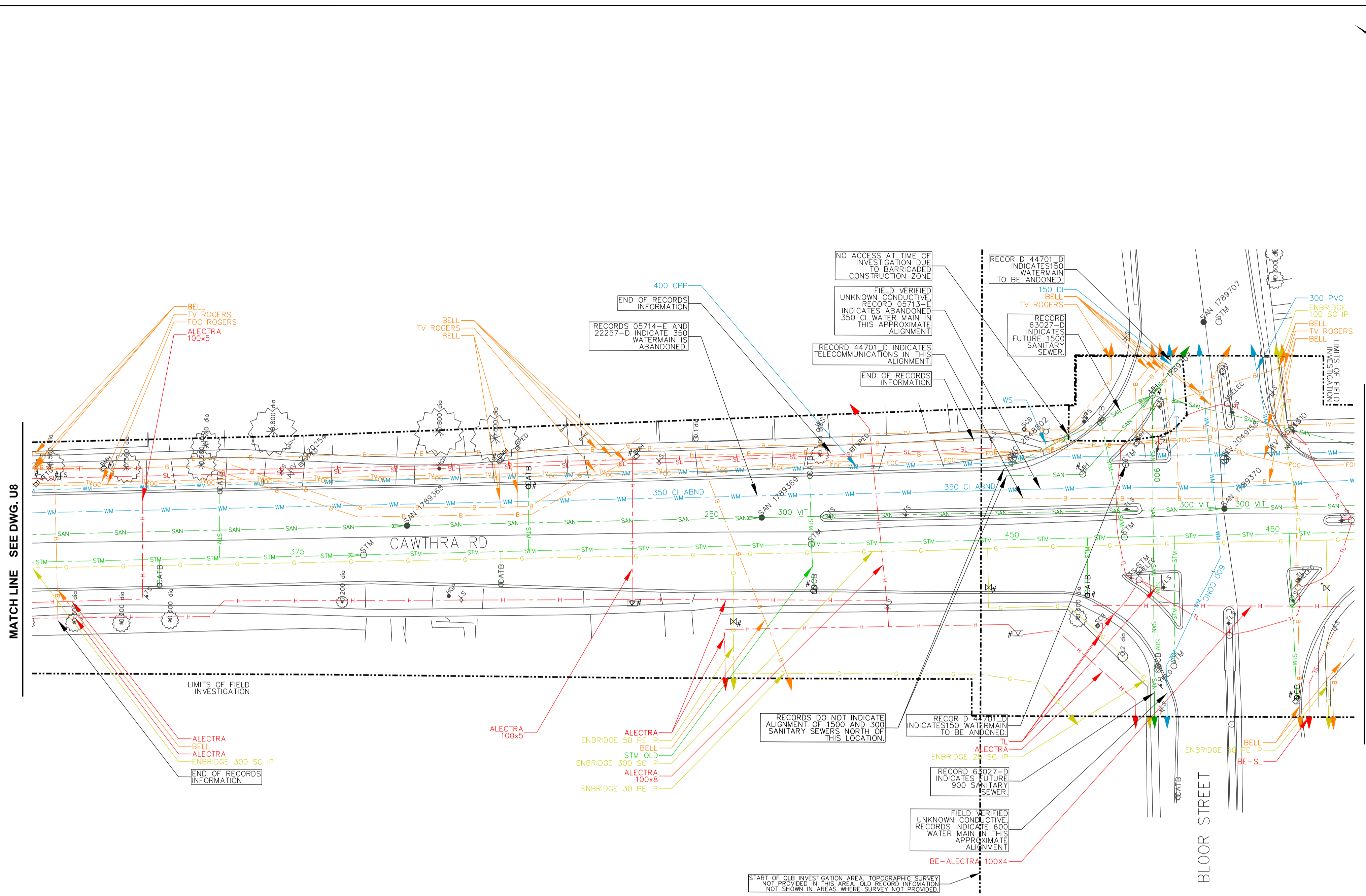


Region of Peel
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**Cawthra Road
2016-006P**

**SUBSURFACE UTILITY
ENGINEERING INVESTIGATION**

CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	8 of 22
		Plan No.	U8



KEY PLAN (N.T.S.)

REVISIONS		
DATE	DETAILS	INIT.

LEGEND

G	GAS
GS	GAS SERVICE
WM	WATER
WS	WATER SERVICE
SAN	SANITARY SEWER
SAN	SANITARY LATERAL
STM	STORM SEWER
STM	STORM LATERAL
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B	BURIED TELECOMMUNICATIONS
---	QUALITY LEVEL "B"
---	QUALITY LEVEL "C"
---	QUALITY LEVEL "D"
- - - - -	LIMIT OF INVESTIGATION

TEST HOLE

LOSS OF SIGNAL

NOT SURVEYED, LOCATION BASED ON FIELD OBSERVATION

NOT SURVEYED, LOCATION BASED ON RECORD INFORMATION

ABND

FLOW ARROW

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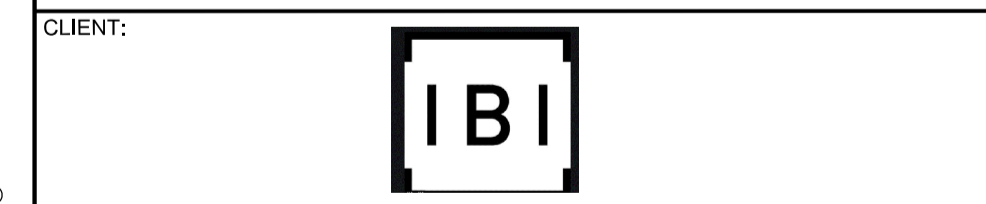
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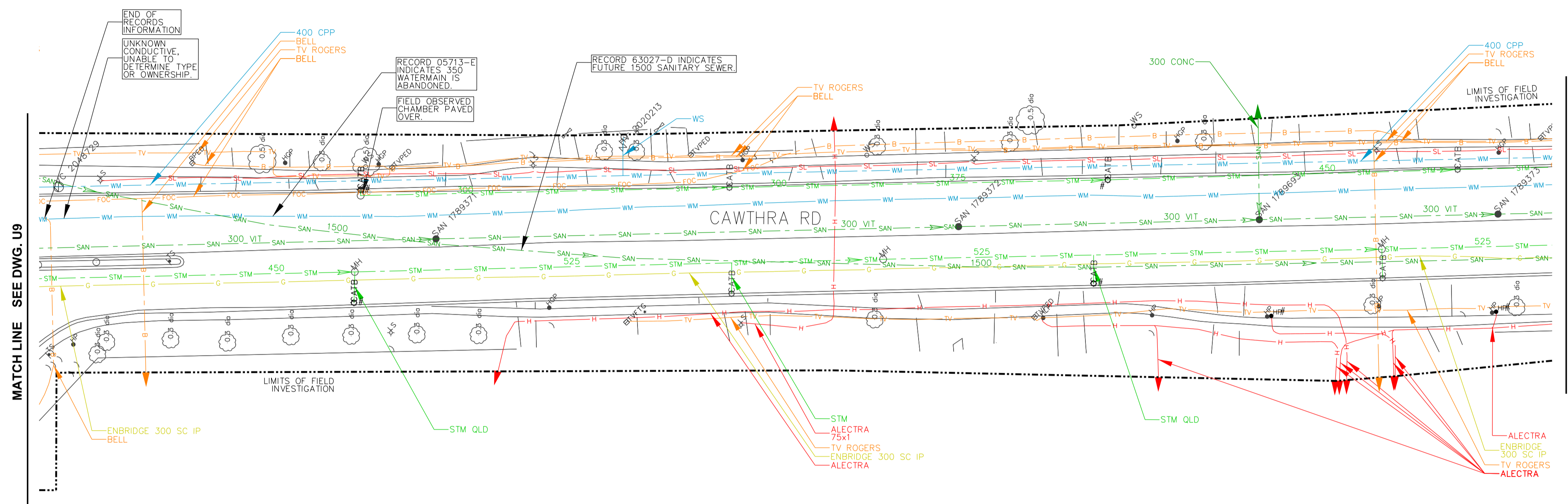
Region of Peel
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**Cawthra Road
2016-006P**

**SUBSURFACE UTILITY
ENGINEERING INVESTIGATION**

CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	9 of 22
		Plan No.	U9

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KEY PLAN (N.T.S.)

REVISIONS		
DATE	DETAILS	INIT.

LEGEND

G	GAS
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WS	WATER SERVICE
SAN	SANITARY SEWER
SAN	SANITARY LATERAL
STM	STORM SEWER
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---	QUALITY LEVEL "B"
---	QUALITY LEVEL "C"
---	QUALITY LEVEL "D"
---	LIMIT OF INVESTIGATION

TEST HOLE

LOSS OF SIGNAL

NOT SURVEYED, LOCATION BASED ON FIELD OBSERVATION

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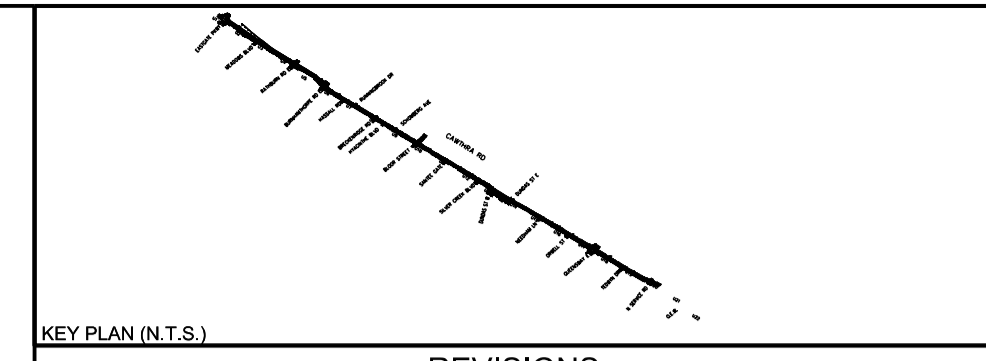
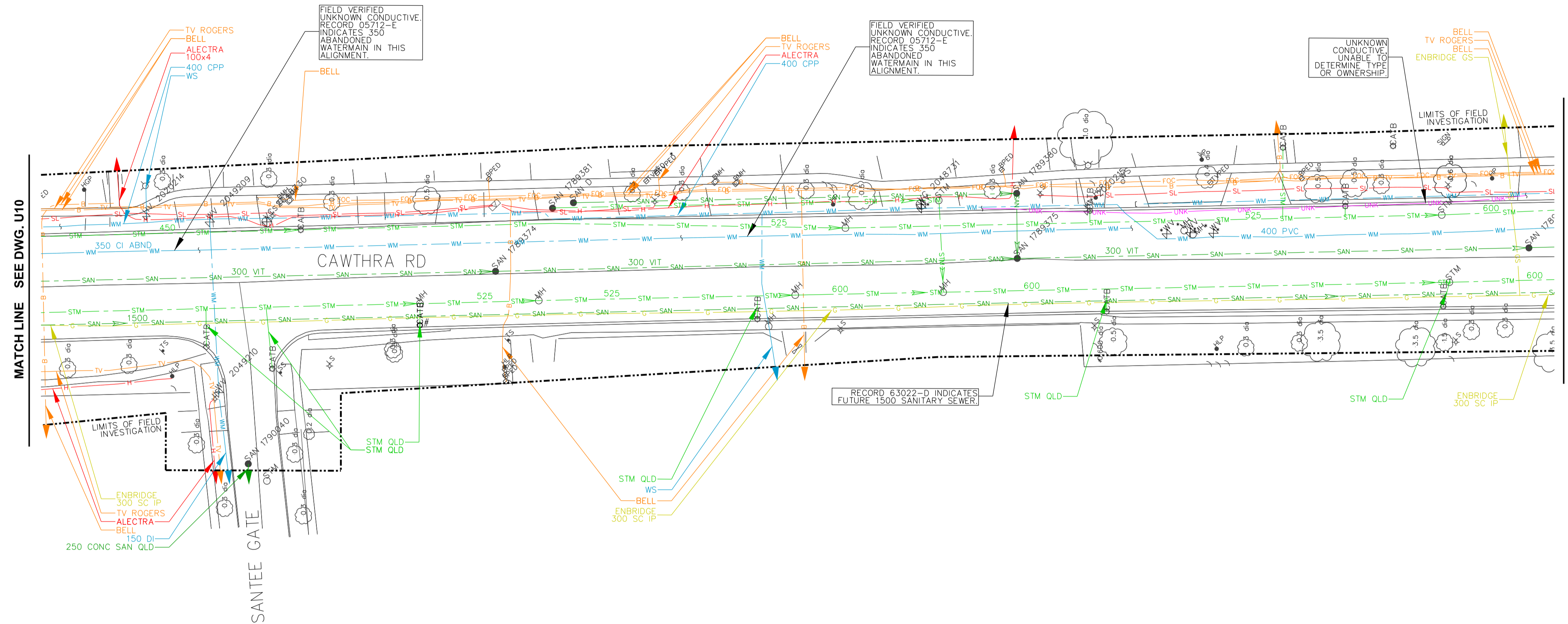
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**Cawthra Road
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CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	10 of 22
		Plan No.	U10



REVISIONS		
DATE	DETAILS	INIT.

LEGEND	
G	GAS SERVICE
GS	GAS SERVICE
WM	WATER
WS	WATER SERVICE
SAN	SANITARY SEWER
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	LOSS OF SIGNAL
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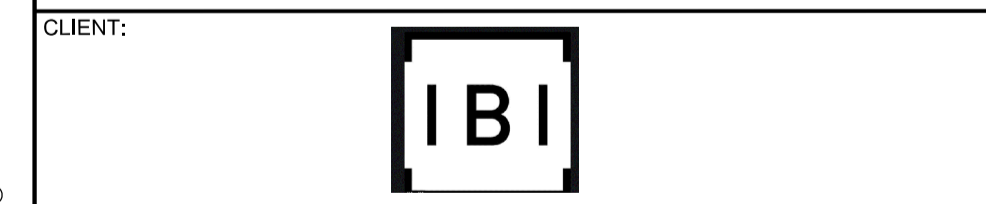
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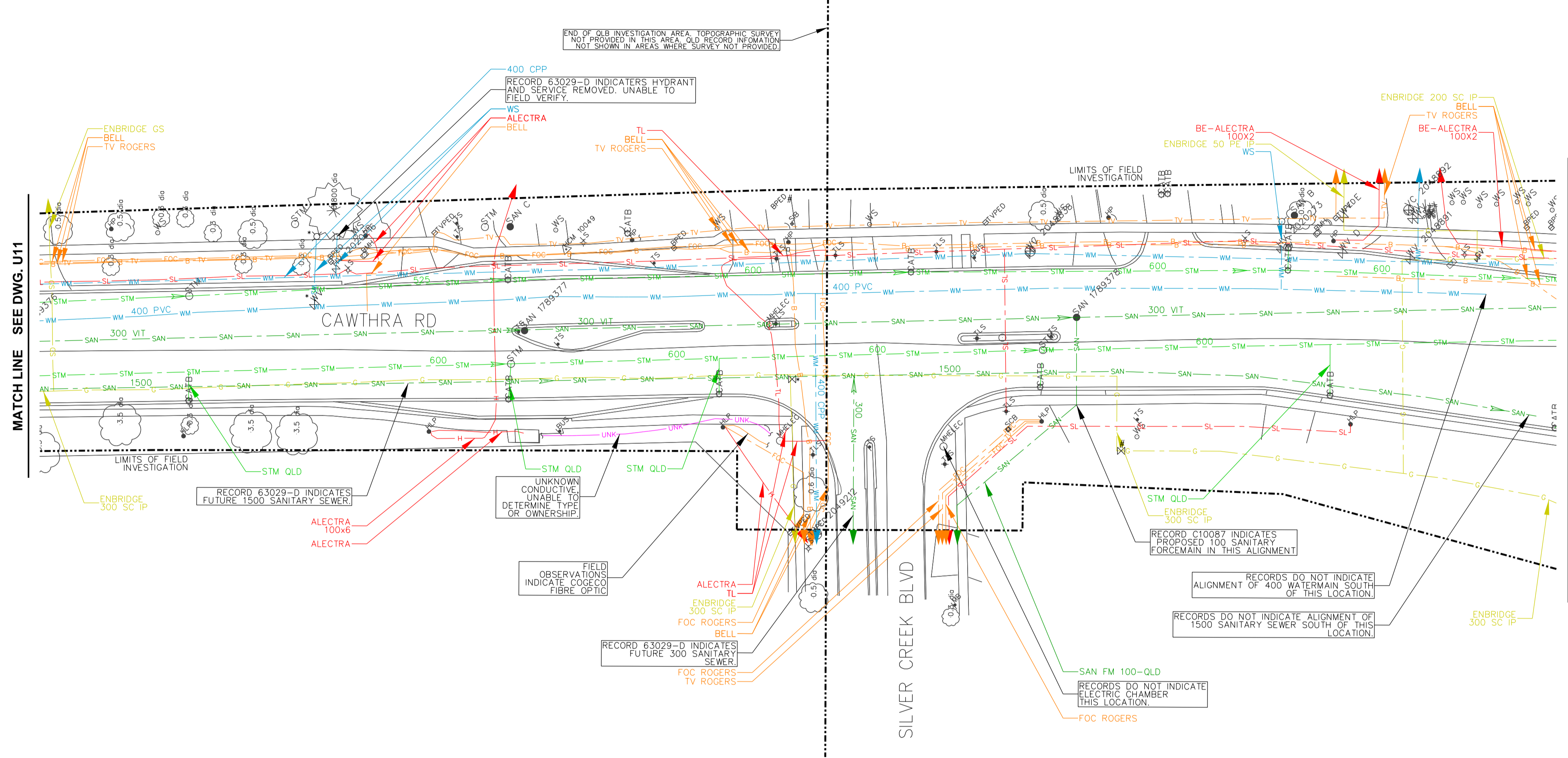
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CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	11 of 22
		Plan No.	U11



MATCH LINE SEE DWG. U13

MATCH LINE SEE DWG. U11

KEY PLAN (N.T.S.)

REVISIONS		
DATE	DETAILS	INIT.

LEGEND

- G GAS
- GS GAS SERVICE
- WM WATER
- WS WATER SERVICE
- SAN SANITARY SEWER
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- STM STORM SEWER
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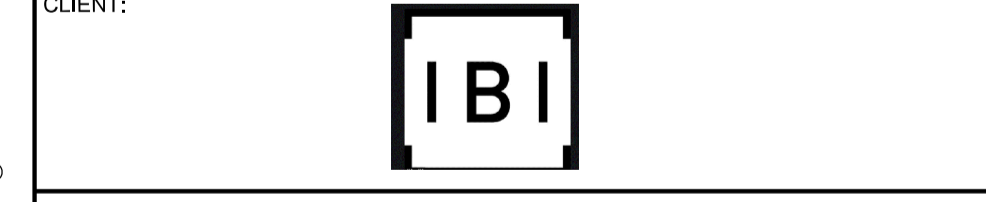
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Region of Peel
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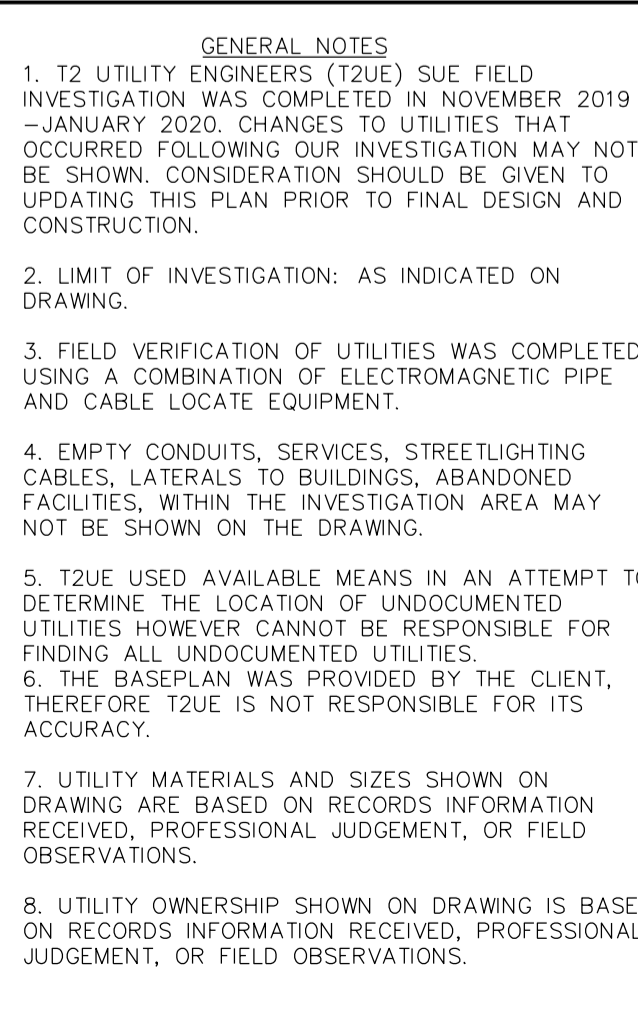
**Cawthra Road
 2016-006P**

**SUBSURFACE UTILITY
 ENGINEERING INVESTIGATION**

CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	12 of 22
		Plan No.	U12

GENERAL NOTES

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END OF D.E.B. INVESTIGATION AREA. TOPOGRAPHIC SURVEY NOT PROVIDED IN THIS AREA. OLD RECORD INFORMATION NOT SHOWN IN AREAS WHERE SURVEY NOT PROVIDED.

RECORD 63029-D INDICATES HYDRANT AND SERVICE REMOVED. UNABLE TO FIELD VERIFY.

RECORD 63029-D INDICATES FUTURE 1500 SANITARY SEWER.

RECORD C10087 INDICATES PROPOSED 100 SANITARY FORCEMAIN IN THIS ALIGNMENT.

RECORDS DO NOT INDICATE ALIGNMENT OF 400 WATERMAIN SOUTH OF THIS LOCATION.

RECORDS DO NOT INDICATE ALIGNMENT OF 1500 SANITARY SEWER SOUTH OF THIS LOCATION.

RECORDS DO NOT INDICATE ELECTRIC CHAMBER AT THIS LOCATION.

FIELD OBSERVATIONS INDICATE CODECO FIBRE OPTIC

UNKNOWN CONDUCTIVE UNABLE TO DETERMINE TYPE OR OWNERSHIP.

ALECTRA

ENBRIDGE

TV ROGERS

BELL

TL

FC

SL

UNKNK

STM

WM

WS

G

GS

400 CPP

400 PVC

300 VIT

600 STM

1500 SAN

100x6

100x4

100x3

100x2

100x1

100x0

100x-1

100x-2

100x-3

100x-4

100x-5

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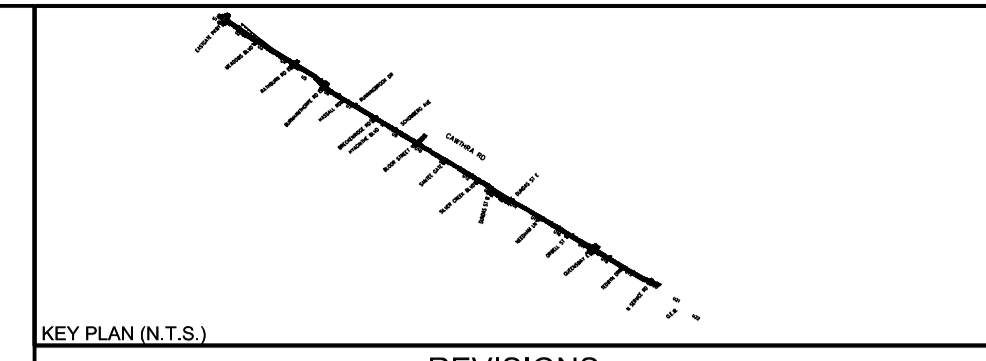
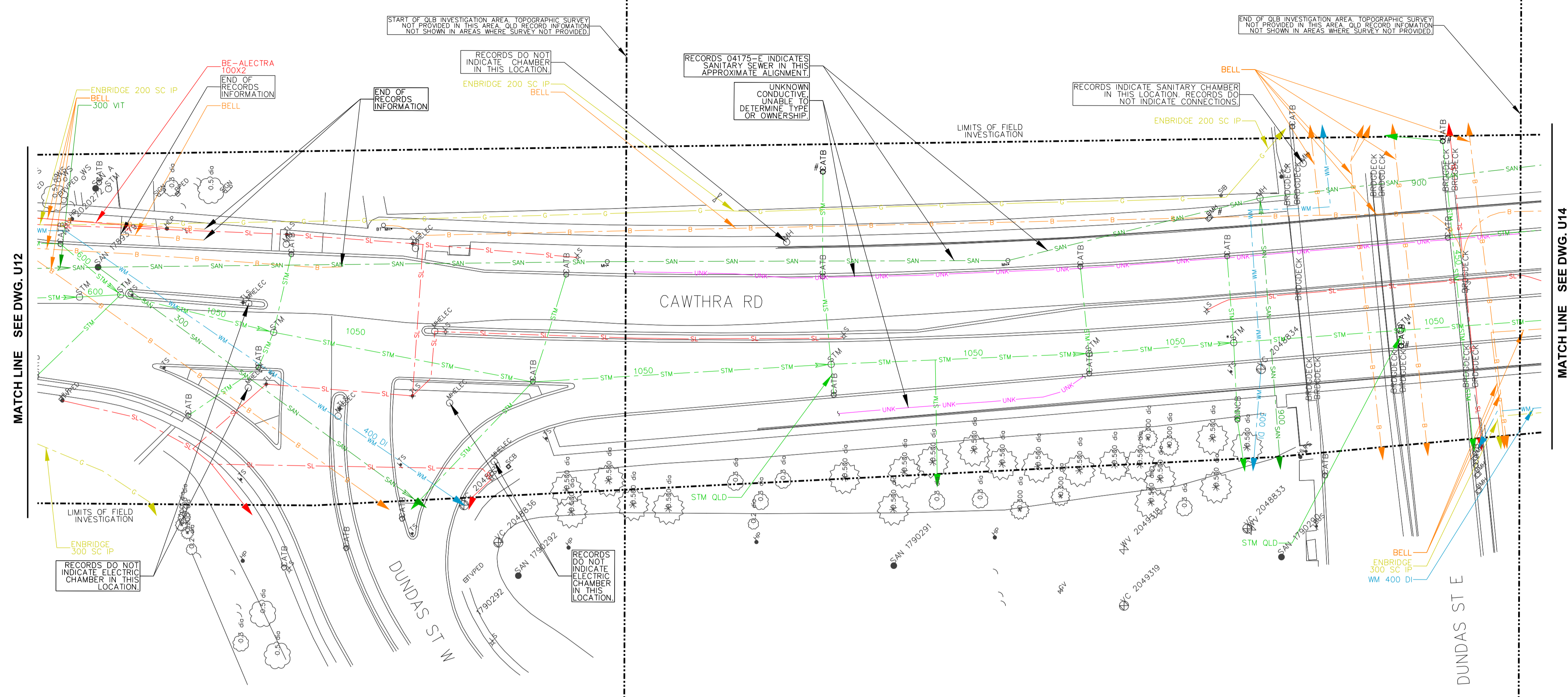
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REVISIONS		
DATE	DETAILS	INIT.

LEGEND	
— G	GAS
— GS	GAS SERVICE
— WM	WATER
— WS	WATER SERVICE
— SAN	SANITARY SEWER
— SANL	SANITARY LATERAL
— STM	STORM SEWER
— STM L	STORM LATERAL
— H	BURIED ELECTRIC
— TL	TRAFFIC LOOP
— SL	STREET LIGHTING
— UNKN	UNKNOWN
— FOC	FIBRE OPTIC CABLE
— TV	CABLE TV
— B	BURIED TELECOMMUNICATIONS
— xxx	QUALITY LEVEL "B"
— xxx	QUALITY LEVEL "C"
— xxx	QUALITY LEVEL "D"
---	LIMIT OF INVESTIGATION
⊙	TEST HOLE
⋄	LOSS OF SIGNAL
⋄	NOT SURVEYED, LOCATION BASED ON FIELD OBSERVATION
⋄	NOT SURVEYED, LOCATION BASED ON RECORD INFORMATION
#	ABANDONED
→	FLOW ARROW

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CLIENT:

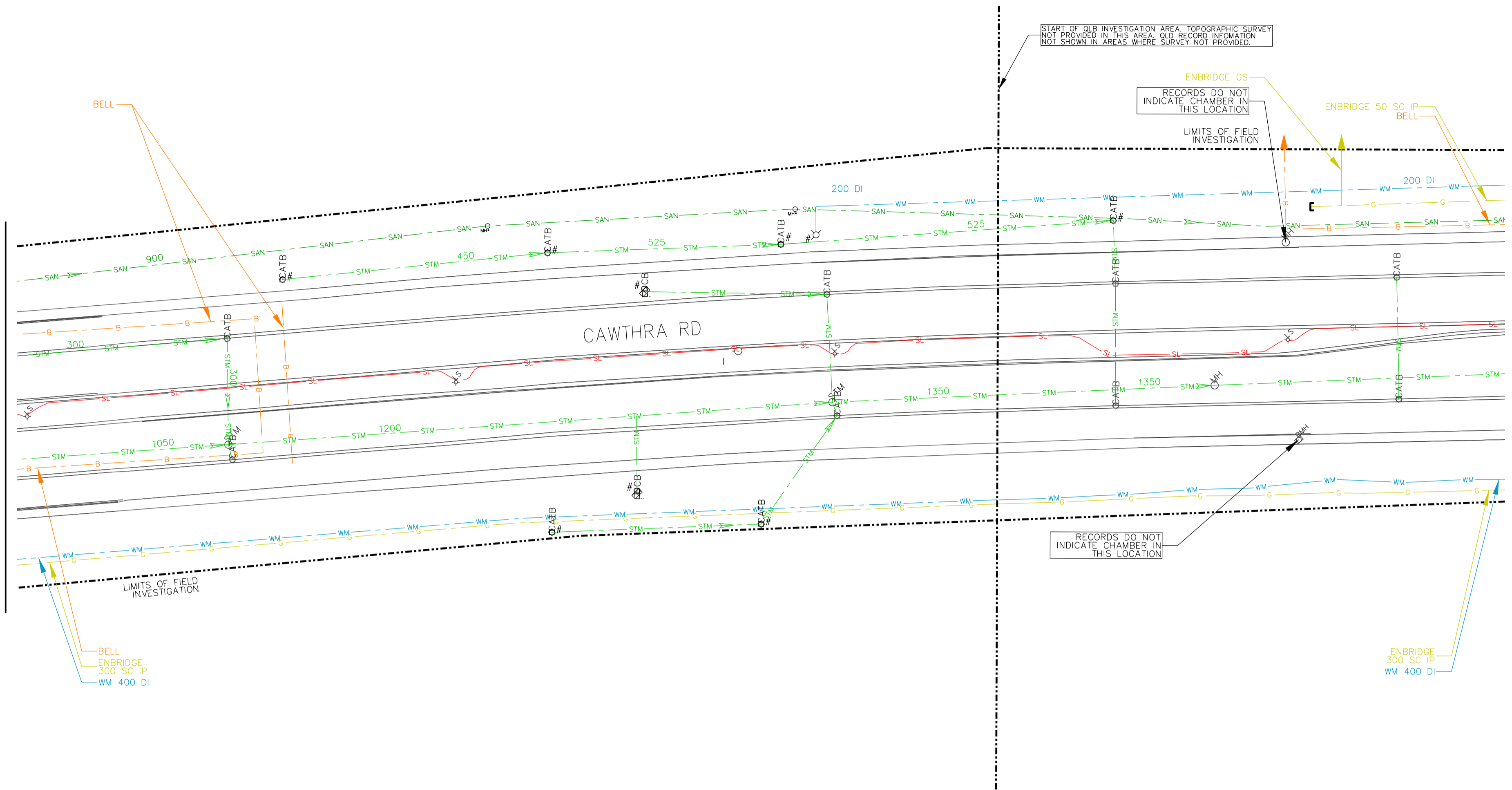
**Cawthra Road
2016-006P**

**SUBSURFACE UTILITY
ENGINEERING INVESTIGATION**

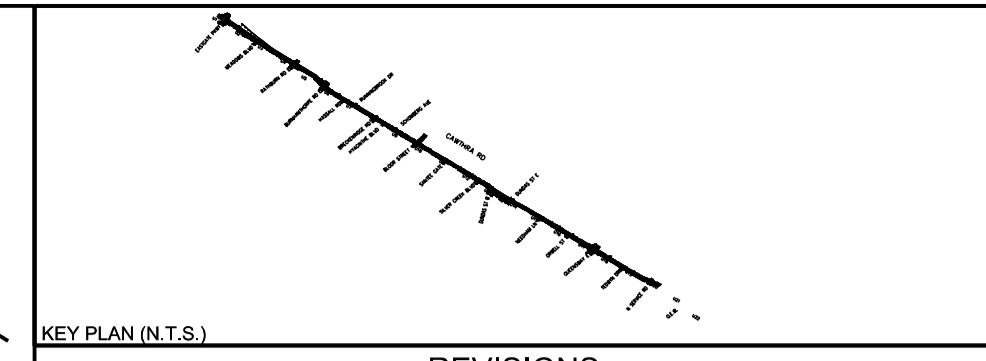
CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	13 of 22
		Plan No.	U13

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MATCH LINE SEE DWG. U13



MATCH LINE SEE DWG. U15



REVISIONS		
DATE	DETAILS	INIT.

LEGEND	
G	GAS
GS	GAS SERVICE
WM	WATER
WS	WATER SERVICE
SAN	SANITARY SEWER
SAN	SANITARY LATERAL
STM	STORM SEWER
STM	STORM LATERAL
H	BURIED ELECTRIC
TL	TRAFFIC LOOP
SL	STREET LIGHTING
UNKN	UNKNOWN
FDC	FIBRE OPTIC CABLE
TV	CABLE TV
B	BURIED TELECOMMUNICATIONS
---	QUALITY LEVEL "B"
- - -	QUALITY LEVEL "C"
---	QUALITY LEVEL "D"
- - -	LIMIT OF INVESTIGATION
⊙	TEST HOLE
⋄	LOSS OF SIGNAL
•	NOT SURVEYED, LOCATION BASED ON FIELD OBSERVATION
#	NOT SURVEYED, LOCATION BASED ON RECORD INFORMATION
ABND	ABANDONED
→	FLOW ARROW

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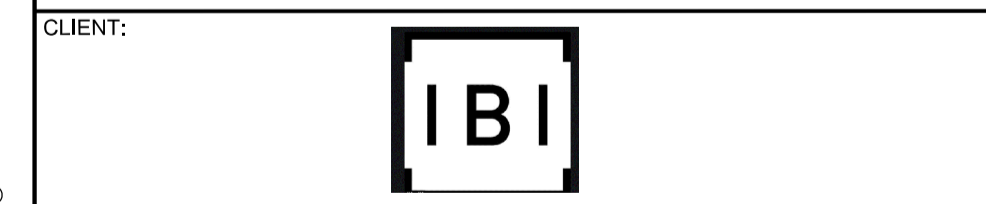
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Region of Peel
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**Cawthra Road
2016-006P**

**SUBSURFACE UTILITY
ENGINEERING INVESTIGATION**

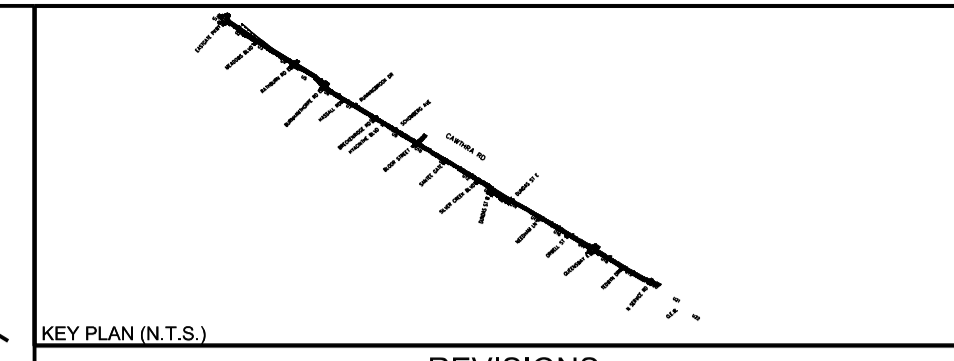
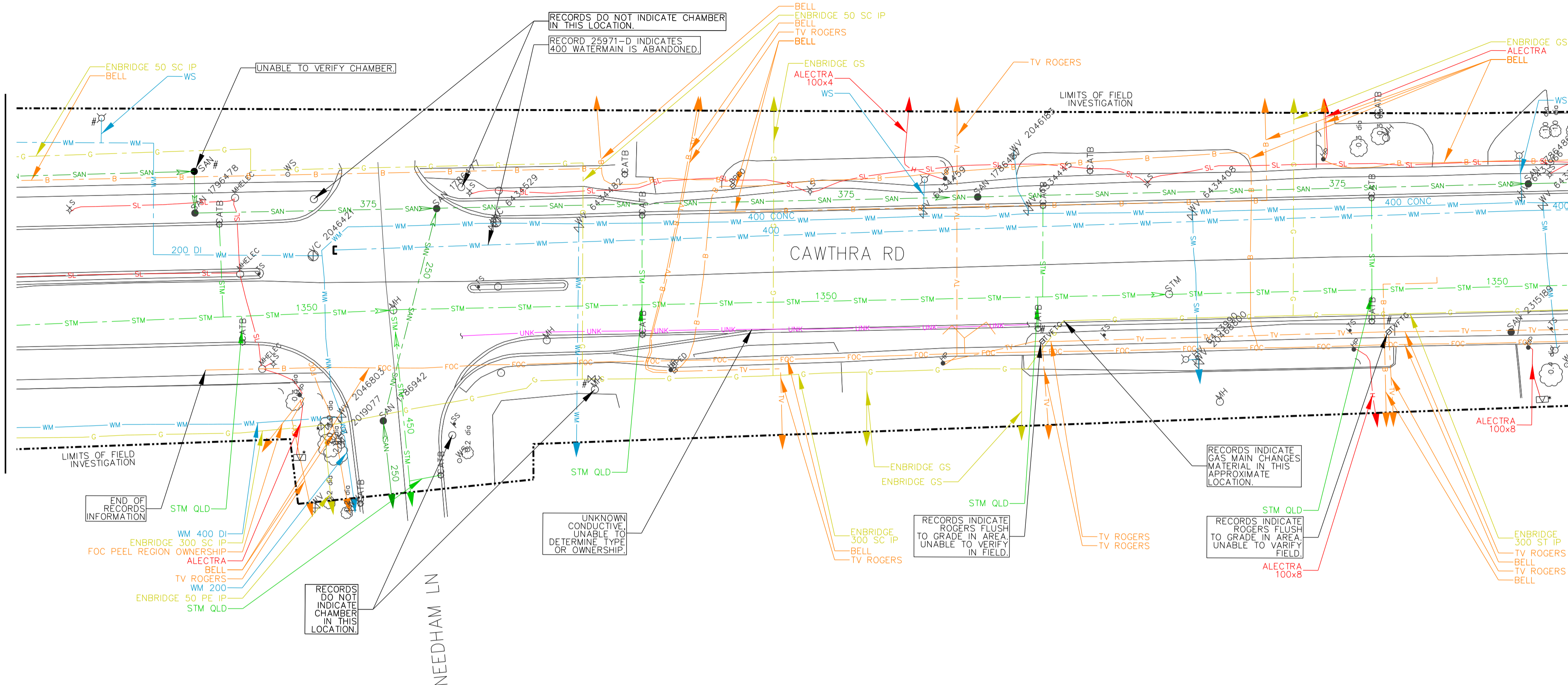
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CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	14 of 22
		Plan No.	U14

MATCH LINE SEE DWG. U14

MATCH LINE SEE DWG. U16



REVISIONS		
DATE	DETAILS	INIT.

LEGEND	
G	GAS
GS	GAS SERVICE
WM	WATER
WS	WATER SERVICE
SAN	SANITARY SEWER
SAN	SANITARY LATERAL
STM	STORM SEWER
STM	STORM LATERAL
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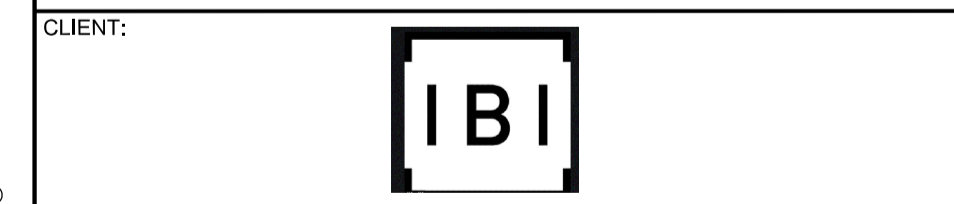
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T2 utility engineers
 1-855-222-T2UE | WWW.T2UE.COM



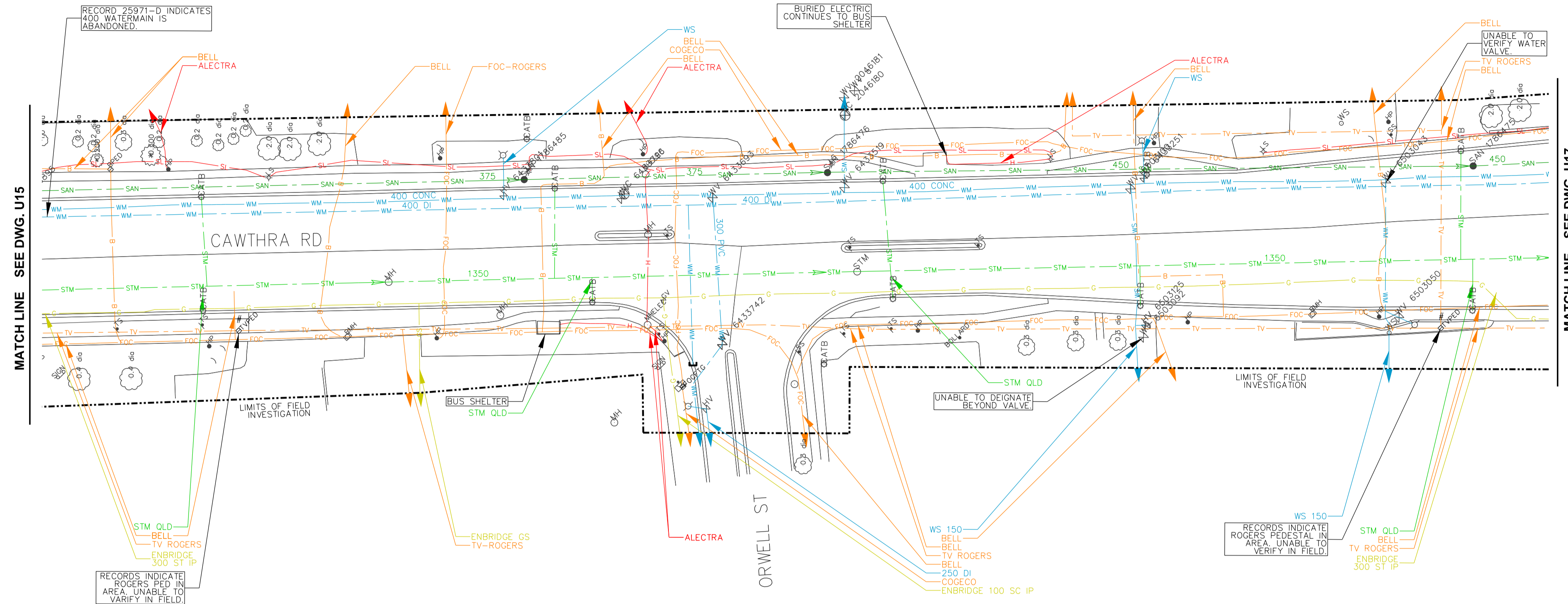
Region of Peel
 Working for you

Cawthra Road
2016-006P

SUBSURFACE UTILITY ENGINEERING INVESTIGATION

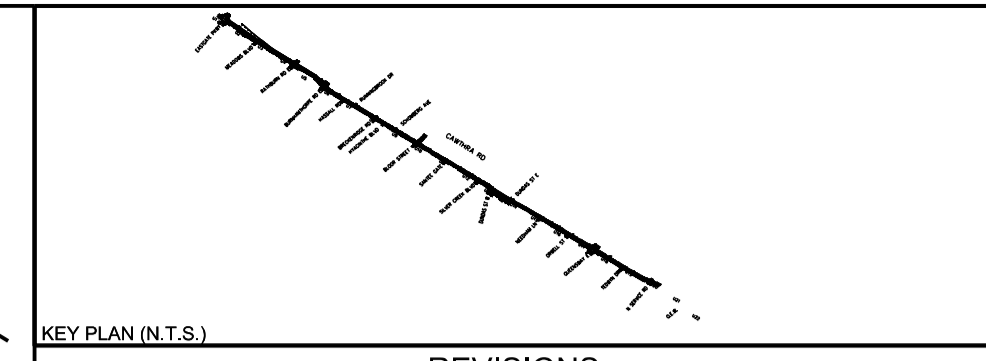
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CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	15 of 22
		Plan No.	U15



MATCH LINE SEE DWG. U15

MATCH LINE SEE DWG. U17



REVISIONS		
DATE	DETAILS	INIT.

LEGEND	
— G	GAS
— GS	GAS SERVICE
— WM	WATER
— WS	WATER SERVICE
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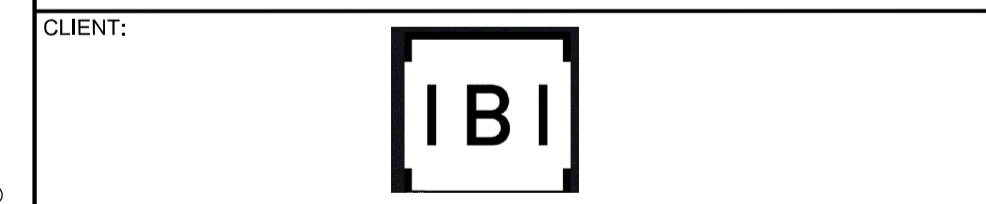
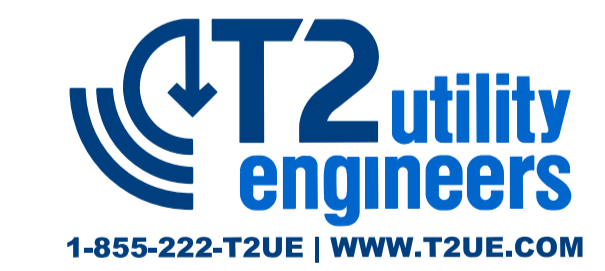
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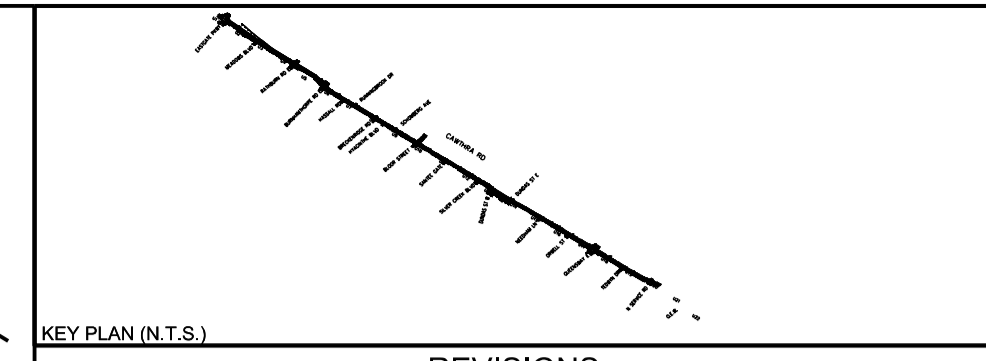
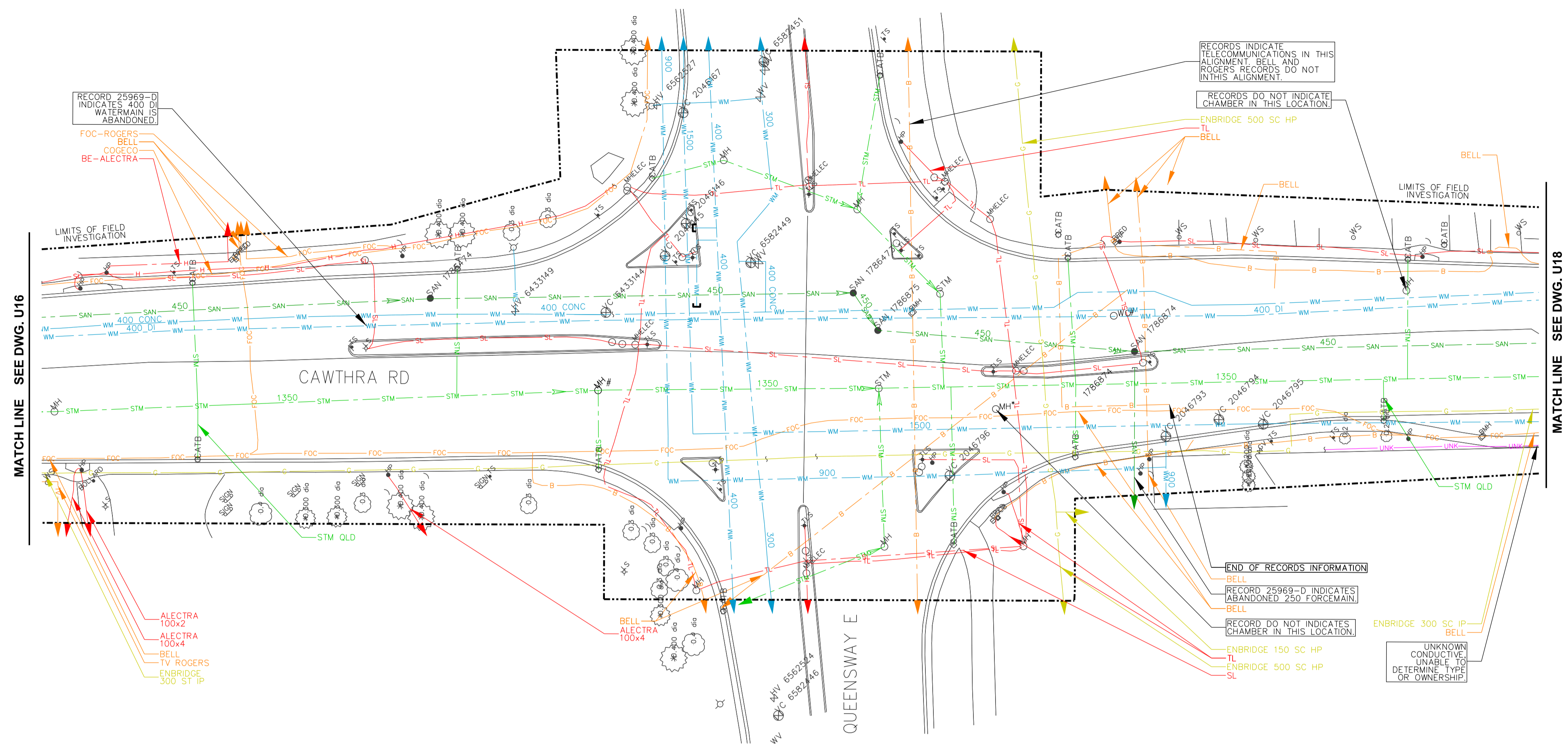


Region of Peel
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**Cawthra Road
 2016-006P**

**SUBSURFACE UTILITY
 ENGINEERING INVESTIGATION**

CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	16 of 22
		Plan No.	U16



REVISIONS		
DATE	DETAILS	INIT.

LEGEND

- G GAS
- GS GAS SERVICE
- WM WATER
- WS WATER SERVICE
- SAN SANITARY SEWER
- SAN SANITARY LATERAL
- STM STORM SEWER
- STM STORM LATERAL
- H BURIED ELECTRIC
- TL TRAFFIC LOOP
- SL STREET LIGHTING
- UNKN UNKNOWN
- FOC FIBRE OPTIC CABLE
- TV CABLE TV
- B BURIED TELECOMMUNICATIONS
- QUALITY LEVEL "B"
- QUALITY LEVEL "C"
- QUALITY LEVEL "D"
- - - - - LIMIT OF INVESTIGATION

TEST HOLE

LOSS OF SIGNAL

NOT SURVEYED, LOCATION BASED ON FIELD OBSERVATION

NOT SURVEYED, LOCATION BASED ON RECORD INFORMATION

ABANDONED

FLOW ARROW

ASCE QUALITY LEVELS

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I QUALITY LEVEL "D" - INFORMATION DERIVED FROM EXISTING RECORDS OR VERBAL RECOLLECTIONS.

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S

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O

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I QUALITY LEVEL "A" - PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES.

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T2 utility engineers
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CLIENT:

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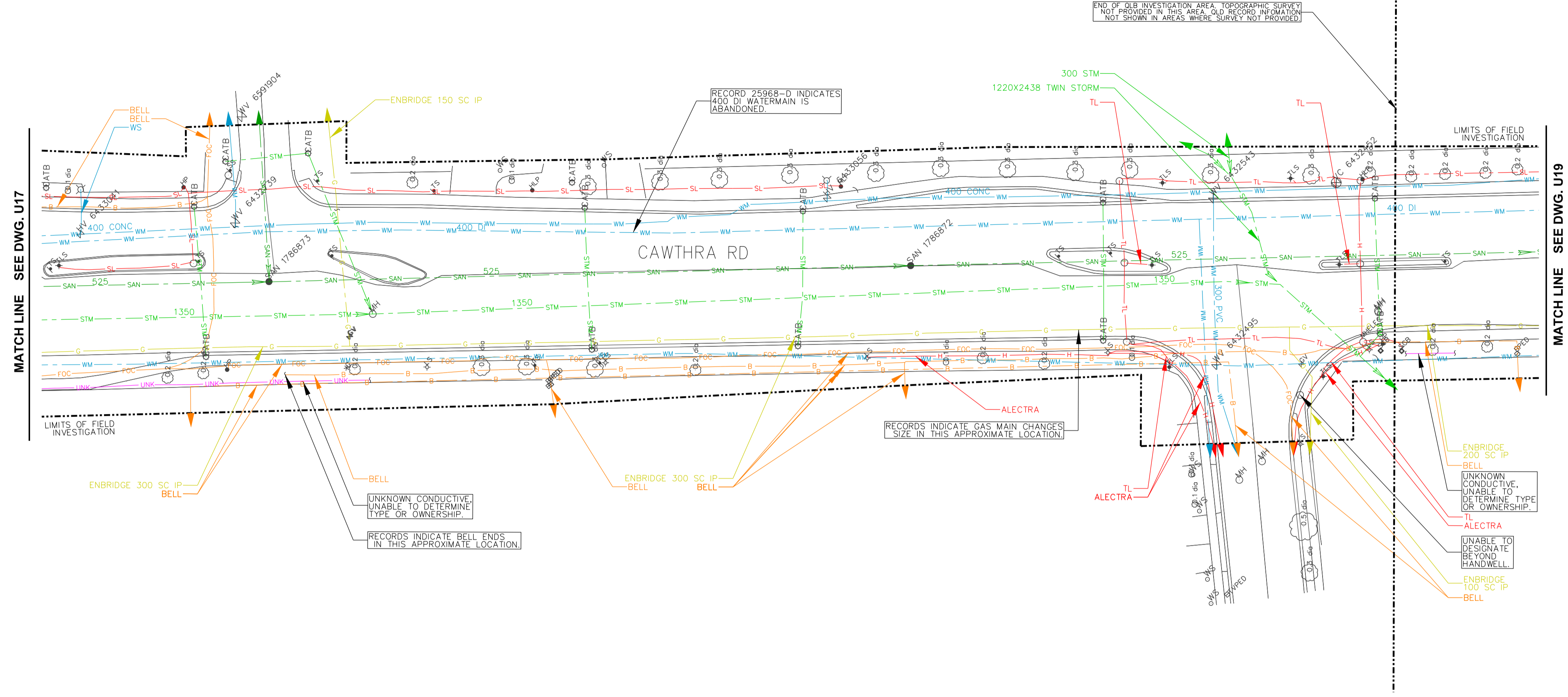
**Cawthra Road
2016-006P**

**SUBSURFACE UTILITY
INVESTIGATION**

CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	17 of 22
		Plan No.	U17

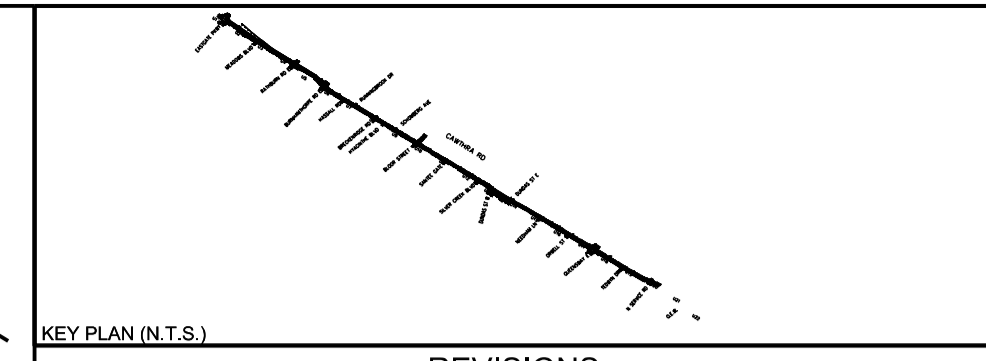
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MATCH LINE SEE DWG. U17

MATCH LINE SEE DWG. U19



REVISIONS		
DATE	DETAILS	INIT.

LEGEND	
—G—	GAS
—GS—	GAS SERVICE
—WM—	WATER
—WS—	WATER SERVICE
—SAN—	SANITARY SEWER
—SANL—	SANITARY LATERAL
—STM—	STORM SEWER
—STML—	STORM LATERAL
—H—	BURIED ELECTRIC
—TL—	TRAFFIC LOOP
—SL—	STREET LIGHTING
—UNKN—	UNKNOWN
—FOC—	FIBRE OPTIC CABLE
—TV—	CABLE TV
—B—	BURIED TELECOMMUNICATIONS
—xxx—	QUALITY LEVEL "B"
—xxx—	QUALITY LEVEL "C"
—xxx—	QUALITY LEVEL "D"
---	LIMIT OF INVESTIGATION
⊙	TEST HOLE
⋄	LOSS OF SIGNAL
⋄	NOT SURVEYED, LOCATION BASED ON FIELD OBSERVATION
#	NOT SURVEYED, LOCATION BASED ON RECORD INFORMATION
ABND	ABANDONED
→	FLOW ARROW

ASCE QUALITY LEVELS

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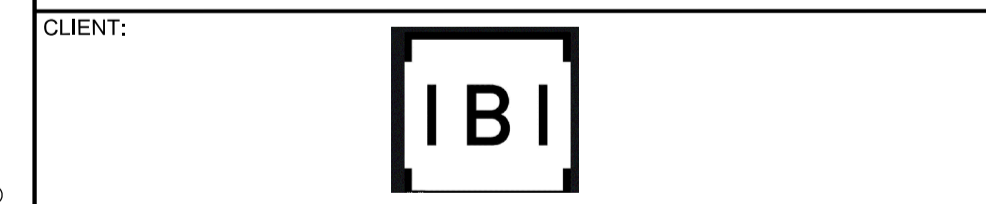
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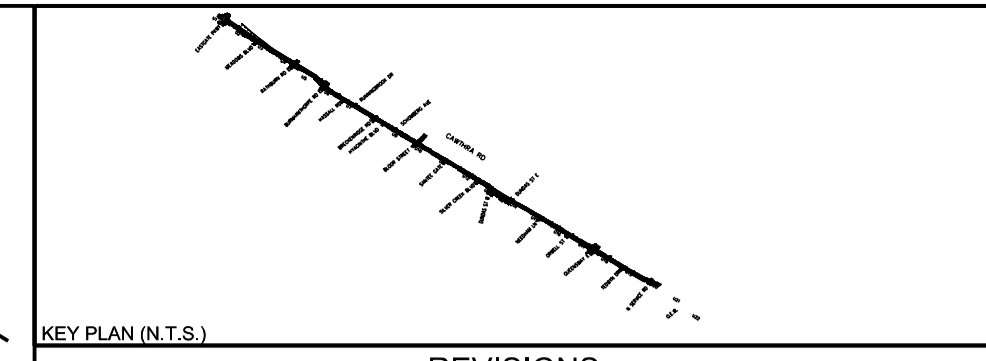
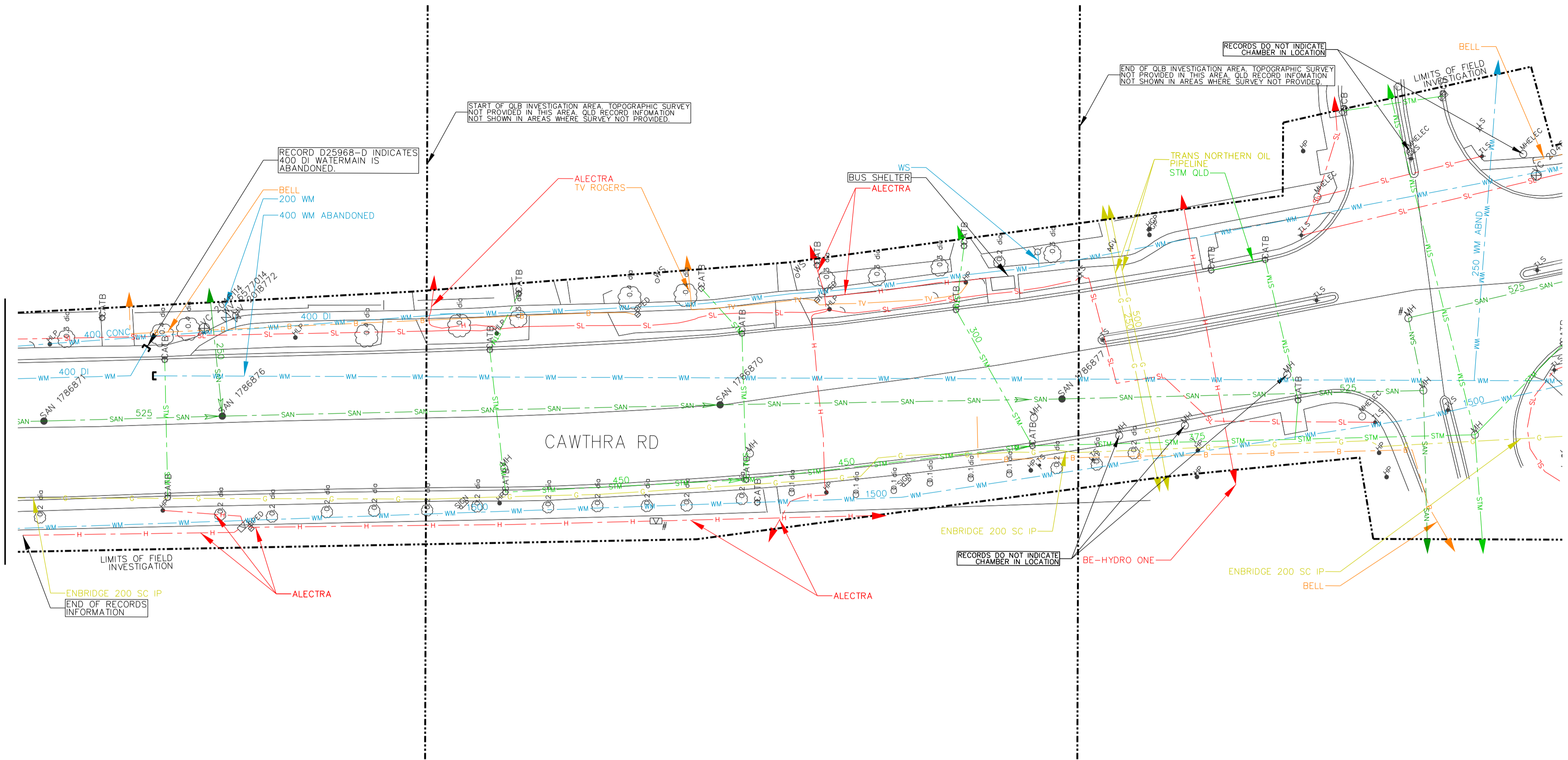
**Cawthra Road
2016-006P**

**SUBSURFACE UTILITY
ENGINEERING INVESTIGATION**

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CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	18 of 22
		Plan No.	U18

MATCH LINE SEE DWG. U18



REVISIONS		
DATE	DETAILS	INIT.

LEGEND	
—G—	GAS
—GS—	GAS SERVICE
—WM—	WATER
—WS—	WATER SERVICE
—SAN—	SANITARY SEWER
—SAN—	SANITARY LATERAL
—STM—	STORM SEWER
—STM—	STORM LATERAL
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—B—	BURIED TELECOMMUNICATIONS
—xxx—	QUALITY LEVEL "B"
—xxx—	QUALITY LEVEL "C"
—xxx—	QUALITY LEVEL "D"
---	LIMIT OF INVESTIGATION
⊙	TEST HOLE
⊙	LOSS OF SIGNAL
⊙	NOT SURVEYED, LOCATION BASED ON FIELD OBSERVATION
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⊙	ABND
→	FLOW ARROW

ASCE QUALITY LEVELS

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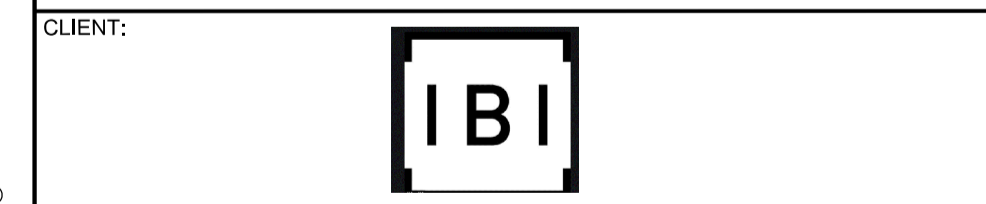
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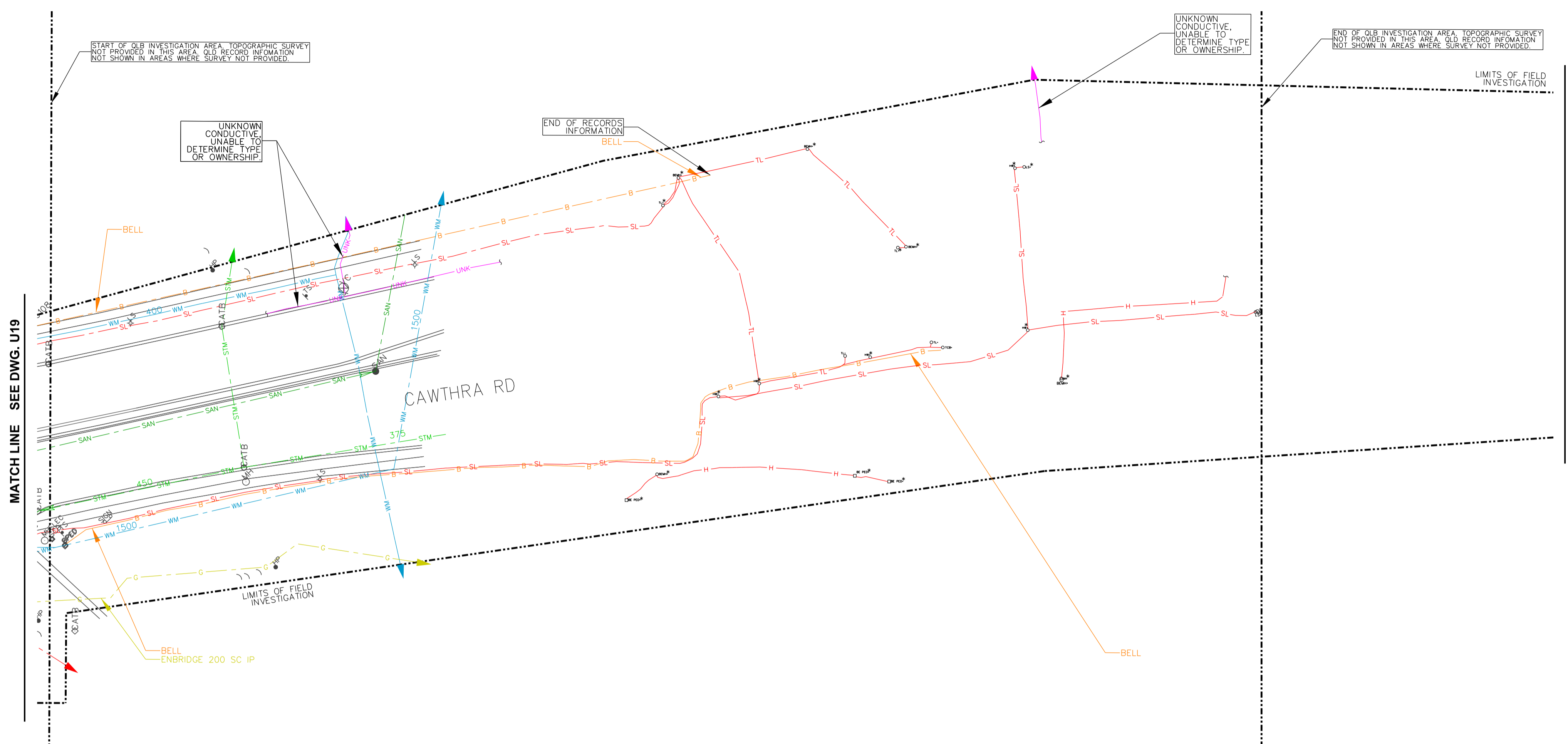
**Cawthra Road
2016-006P**

**SUBSURFACE UTILITY
ENGINEERING INVESTIGATION**

CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	19 of 22
		Plan No.	U19

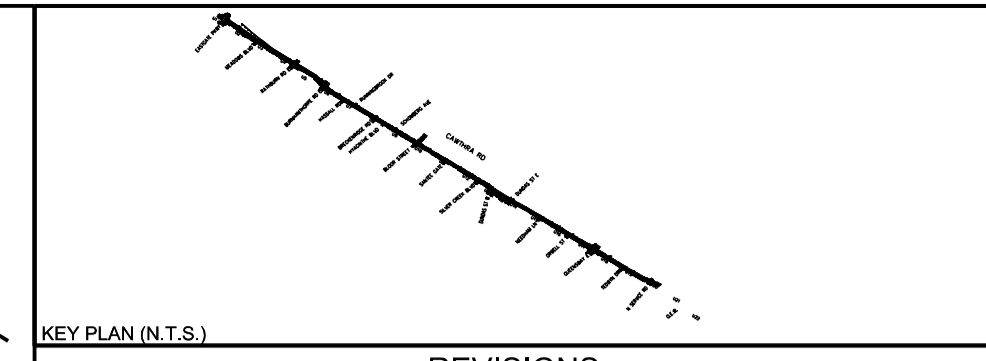
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MATCH LINE SEE DWG. U21

MATCH LINE SEE DWG. U19



REVISIONS		
DATE	DETAILS	INIT.

LEGEND	
— G —	GAS
— GS —	GAS SERVICE
— WM —	WATER
— WS —	WATER SERVICE
— SAN —	SANITARY SEWER
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— xxx —	QUALITY LEVEL "B"
— xxx —	QUALITY LEVEL "C"
— xxx —	QUALITY LEVEL "D"
---	LIMIT OF INVESTIGATION
⊙	TEST HOLE
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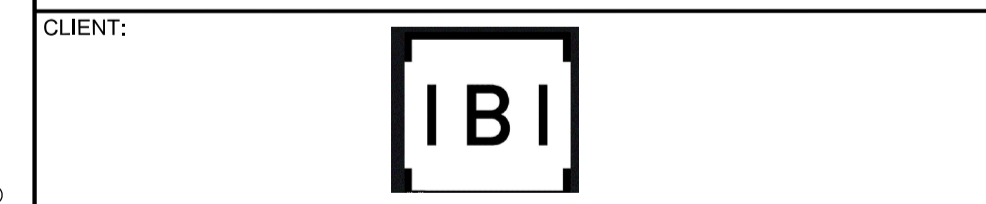
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Region of Peel
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**Cawthra Road
2016-006P**

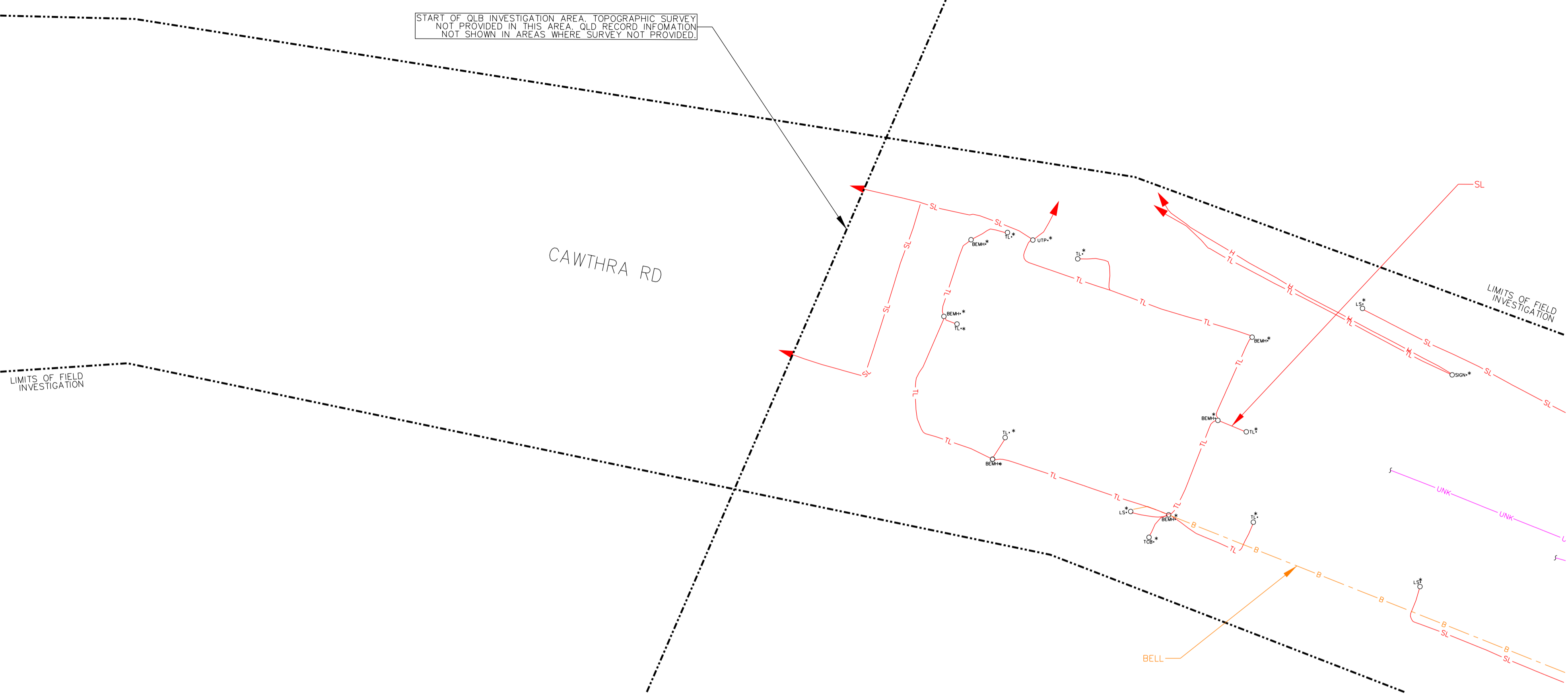
**SUBSURFACE UTILITY
ENGINEERING INVESTIGATION**

GENERAL NOTES

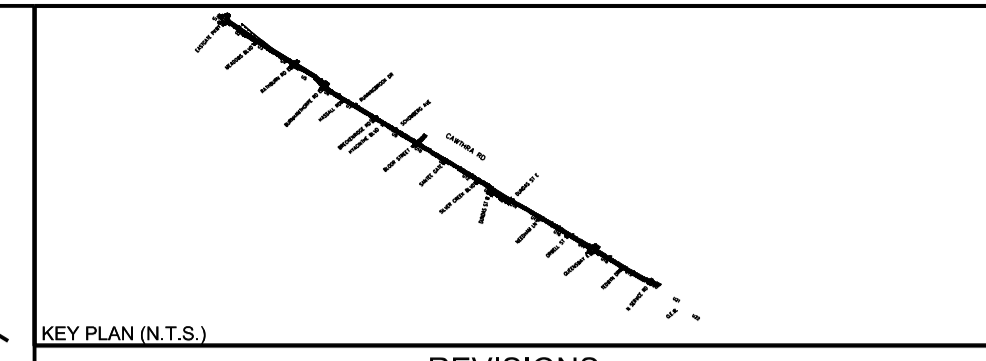
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CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	20 of 22
		Plan No.	U20

MATCH LINE SEE DWG. U20



MATCH LINE SEE DWG. U22



REVISIONS		
DATE	DETAILS	INIT.

LEGEND	
G	GAS
GS	GAS SERVICE
WM	WATER
WS	WATER SERVICE
SAN	SANITARY SEWER
SAN	SANITARY LATERAL
STM	STORM SEWER
STM	STORM LATERAL
H	BURIED ELECTRIC
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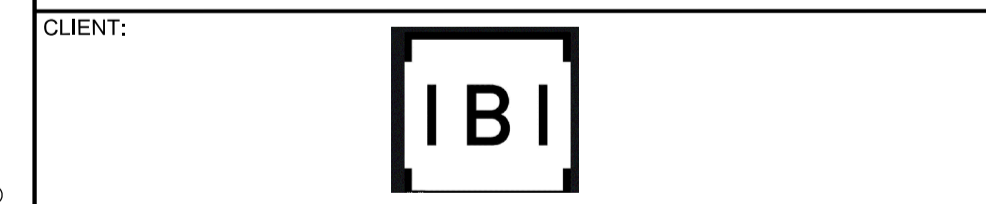
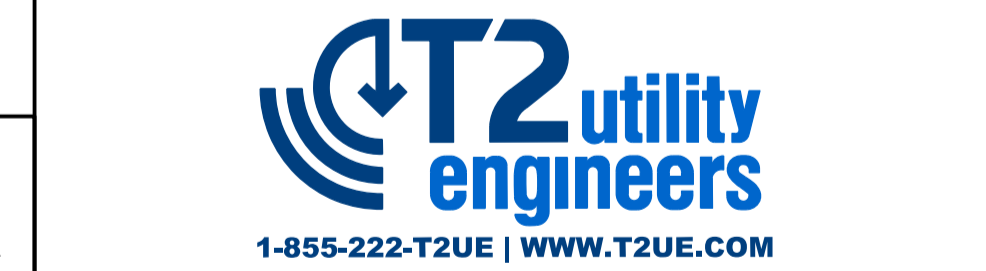
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Working for you

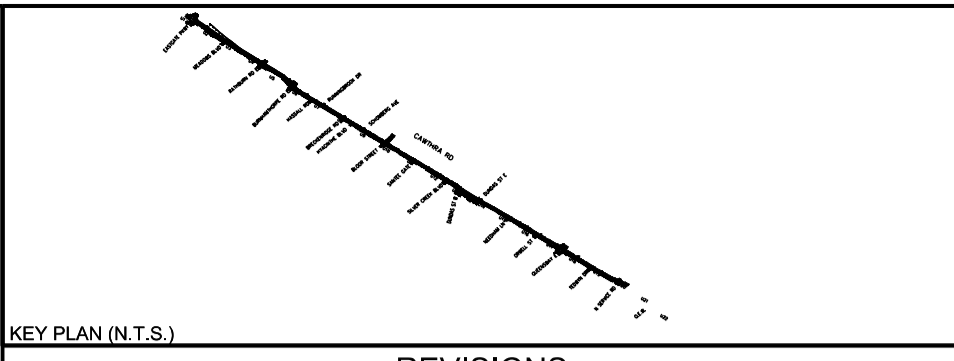
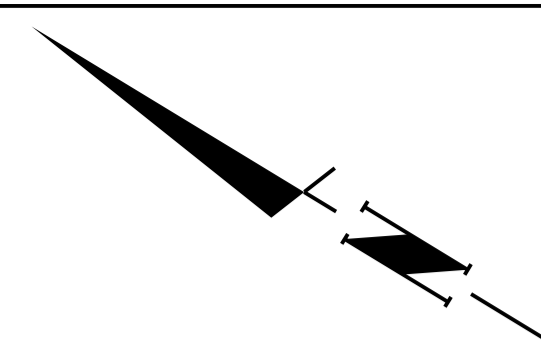
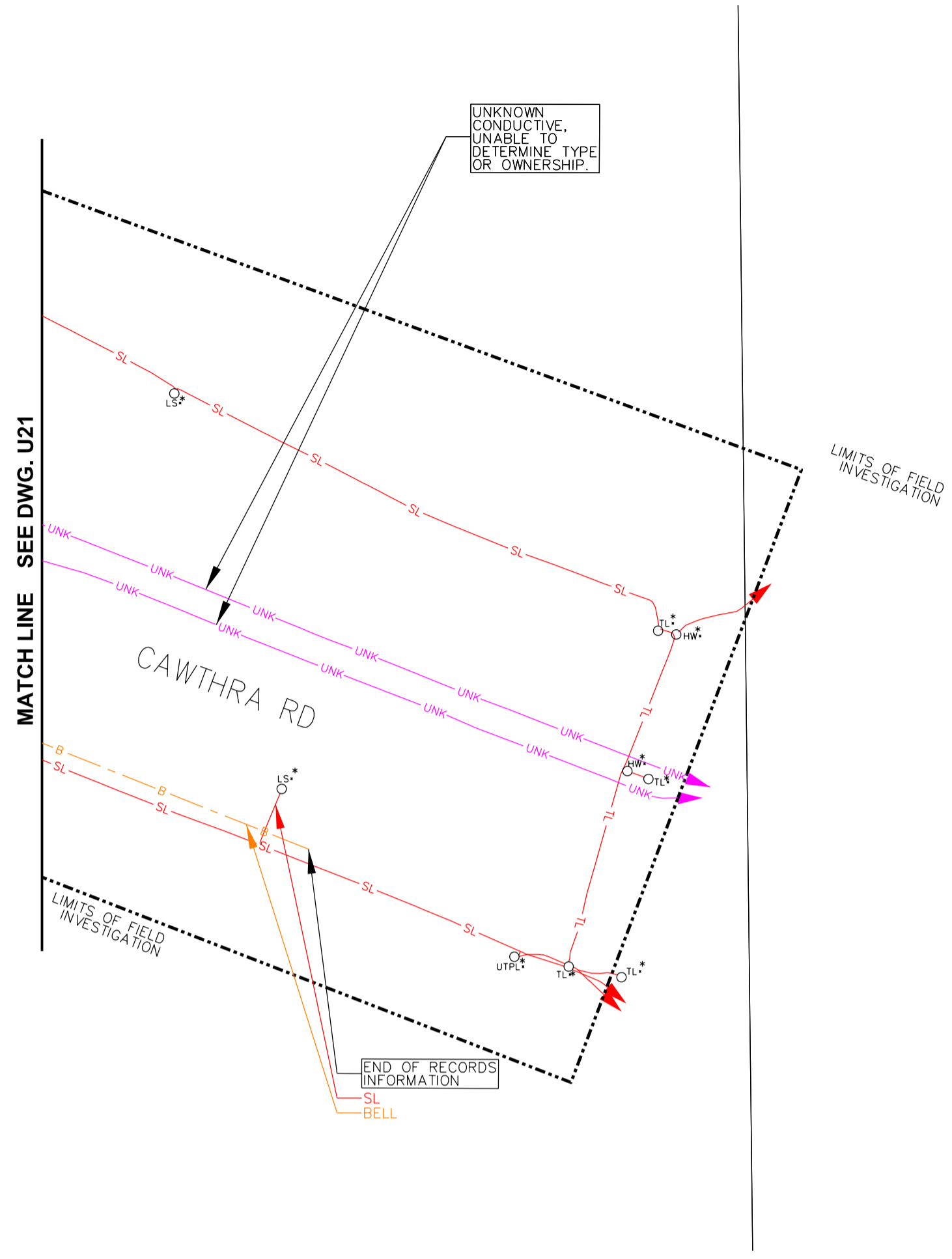
**Cawthra Road
2016-006P**

**SUBSURFACE UTILITY
ENGINEERING INVESTIGATION**

GENERAL NOTES

- T2 UTILITY ENGINEERS (T2UE) SUE FIELD INVESTIGATION WAS COMPLETED IN NOVEMBER 2019 - JANUARY 2020. CHANGES TO UTILITIES THAT OCCURRED FOLLOWING OUR INVESTIGATION MAY NOT BE SHOWN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN PRIOR TO FINAL DESIGN AND CONSTRUCTION.
- LIMIT OF INVESTIGATION: AS INDICATED ON DRAWING.
- FIELD VERIFICATION OF UTILITIES WAS COMPLETED USING A COMBINATION OF ELECTROMAGNETIC PIPE AND CABLE LOCATE EQUIPMENT.
- EMPTY CONDUITS, SERVICES, STREET LIGHTING CABLES, LATERALS TO BUILDINGS, ABANDONED FACILITIES, WITHIN THE INVESTIGATION AREA MAY NOT BE SHOWN ON THE DRAWING.
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- UTILITY OWNERSHIP SHOWN ON DRAWING IS BASED ON RECORDS INFORMATION RECEIVED, PROFESSIONAL JUDGEMENT, OR FIELD OBSERVATIONS.

CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	21 of 22
		Plan No.	U21



REVISIONS		
DATE	DETAILS	INIT.

LEGEND	
G	GAS
GS	GAS SERVICE
WM	WATER
WS	WATER SERVICE
SAN	SANITARY SEWER
SAN	SANITARY LATERAL
STM	STORM SEWER
STM	STORM LATERAL
H	BURIED ELECTRIC
TL	TRAFFIC LOOP
SL	STREET LIGHTING
UNK	UNKNOWN
FOC	FIBRE OPTIC CABLE
TV	CABLE TV
B	BURIED TELECOMMUNICATIONS
---	QUALITY LEVEL "B"
---	QUALITY LEVEL "C"
---	QUALITY LEVEL "D"
---	LIMIT OF INVESTIGATION
⊙	TEST HOLE
⋄	LOSS OF SIGNAL
•	NOT SURVEYED, LOCATION BASED ON FIELD OBSERVATION
#	NOT SURVEYED, LOCATION BASED ON RECORD INFORMATION
ABND	ABANDONED
→	FLOW ARROW

ASCE QUALITY LEVELS

THE UTILITY INFORMATION SHOWN ON THIS DRAWING WAS COLLECTED IN ACCORDANCE TO ASCE STANDARD 38-02. THE INFORMATION IS SHOWN BY QUALITY LEVEL WHICH INDICATES THE LEVEL OF EFFORT USED TO DETERMINE THE LOCATION OF THE DATA.

I QUALITY LEVEL "D" - INFORMATION DERIVED FROM EXISTING RECORDS OR VERBAL RECOLLECTIONS.

N

C

R QUALITY LEVEL "C" - INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGEMENT IN CORRELATING THIS INFORMATION TO THE QUALITY LEVEL "D" INFORMATION.

E

A

S QUALITY LEVEL "B" - INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF THE UTILITIES.

D

O

U

L

A

I QUALITY LEVEL "A" - PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES.

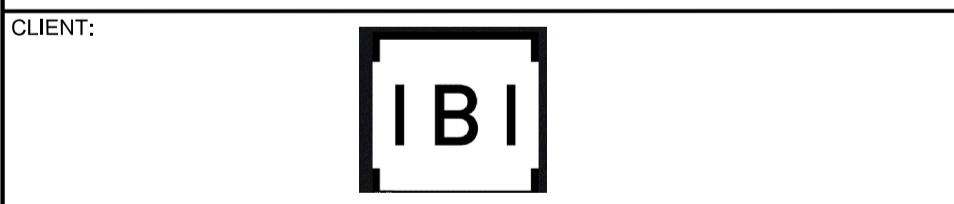
T

Y

THE ENGINEER'S SEAL HEREON IS TO CERTIFY THAT THE UTILITIES SHOWN HAVE BEEN INVESTIGATED IN ACCORDANCE WITH STANDARD SUE INDUSTRY PRACTICES. ALL OTHER INFORMATION HEREON HAS BEEN PROVIDED BY OTHERS AND IS NOT A PART OF THIS CERTIFICATION.

DISCLAIMER:

THIS DRAWING HAS BEEN PREPARED FOR THE USE OF T2UE'S CLIENT AND MAY NOT BE USED, REPRODUCED OR RELIED UPON BY THIRD PARTIES, EXCEPT AS AGREED BY T2UE AND ITS CLIENT, AS REQUIRED BY LAW OR FOR USE BY GOVERNMENT REVIEWING AGENCIES. T2UE ACCEPTS NO RESPONSIBILITY, AND DENIES ANY LIABILITY WHATSOEVER, TO ANY PARTY THAT MODIFIES THIS DRAWING WITHOUT T2UE'S EXPRESS WRITTEN CONSENT.



Region of Peel
Working for you

**Cawthra Road
2016-006P**

**SUBSURFACE UTILITY
ENGINEERING INVESTIGATION**

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CAD Area	Area	Project No.	61001591
Checked by	M.J.	Drawn by	K.F.
Date	FEB. 7 2020	Sheet	22 of 22
		Plan No.	U22

APPENDIX B
UTILITY CIRCULATION CONTACT LIST

Utility Contact Sheet: MISSISSAUGA

Project Name: Peel - Cawthra Road - 2016-006P
 Project Number: 61001591
 Client: IBI Group
 Client Number:



Completed by: Carla Souza
 Checked by: Erik Sodomis
 Project Manager: Erik Sodomis
 Updated (dd/mm/yy): 03/06/20

Utility	Email Address	Contact Name	Contact Information	First Request		Second Request		MATERIAL RECEIVED
				Date Requested (DD/MM/YY)	Date Received (DD/MM/YY)	Date Requested (DD/MM/YY)	Date Received (DD/MM/YY)	
Alectra (formerly Enersource Hydro Mississauga)		Michleine Scaife	3240 Mavis Road Mississauga, ON L5C 3K1 Tel: 905 283 4292	12-Sep-19	17-Sep-19			PDF
Bell Canada	bell.moc@telecom.ca	Elaine Oakley (Toronto) Chris Gill (Hamilton)	100 Borough Drive, Floor F5 Toronto, ON M1P 4W2 tel: 416-296-6587	10-Sep-19		11/21/2019 02/06/2020	21-Feb-20	DWG
CN Rail	Michael.Vallins@cn.ca	Michael Vallins	4 Welding Way Vaughan, ON L4K 1B9	10-Sep-19		21-Nov-19		No Answer
Cogeco Data Services Inc.	utility.circulations@cogecodata.com			10-Sep-19	11-Sep-19			PDF
Enbridge Gas Distribution	mark-ups@enbridge.com	Joe Marozzo	500 Consumers Road 4th Floor - Post A2 - VPC North York, ON M2J 1P8 tel: (416) 758-7956 fax:(416) 758-4374	10-Sep-19				PDF
Enbridge Pipelines Inc	est_rea_crossing@enbridge.com	Ann Newman	tel: 519-339-0503 fax: 519-339-0510 ann.newman@enbridge.com	10-Sep-19	11-Sep-19			No Conflict
Group Telecom	GT.moc@telecom.ca	Anbar Mendes	Telecom Design Inc. 200 Town Centre Blvd., Suite 300, Markham, ON. L3R 8G5 Tel: 905-470-2112 ext. 40305	10-Sep-19	18-Sep-19			No Conflict
Hydro One	tpmarkup@hydroone.com	Mark Hamilton	49 Sarjeant Dr. Barrie, ON L4N 4V9 tel: 705-797-4142 fax: 705-792-3116	10-Sep-19	26-Sep-19			PDF
Hydro One	WestCentralZoneScheduling@HydroOne.com		tel: 905-627-6050 fax: 905-627-6059	10-Sep-19	26-Sep-19			PDF
Imperial Oil Pipeline	hallie.macquaiq@esso.ca			10-Sep-19	16-Sep-18			PDF
Orangeville-Brampton Railway	nhuether@orangeville.ca	Nancy Huether	87 Broadway, Orangeville, Ontario L9W 1K1 tel: 519-941-0440 ext2286	10-Sep-19		21-Nov-19		No Answer
Peel, Region of Public Works Department	https://epal.peelregion.ca/epal		10 Peel Center Drive Suite A and B Brampton, ON L6T 4B9 Tel: 905-791-7800 Ext. 7882	10-Sep-19				PDF's
Region of Peel (Water)	pwservicerequests@peelregion.ca		tel: (905) 791-7800	10-Sep-19		21-Nov-19		PDF's
PSN Fiber Network (Peel Fiber)	scott_rea@peelregion.ca	Scott Rea	905-8406300 ext 4602	10-Sep-19		21-Nov-19		No Answer
Q9 Networks Inc.	jshana.shahini@Q9.com	Johana Shahini	Q9 Networks Inc. Suite 1100, PO Box 235 100 Wellington Street West Toronto, ON M5K 1J3 Tel: (416) 848-8019 Fax: (416) 848-8015	10-Sep-19		21-Nov-19		No Answer
Rogers Cable Communications Inc.	GTAW.Markups@rci.rogers.com	Monica Lapointe	Markup Coordinator, Tel: 905-361-4953	10-Sep-19	13-Sep-19			DWG

Utility Contact Sheet: MISSISSAUGA

Project Name:	Peel - Cawthra Road - 2016-006P
Project Number:	61001591
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Completed by:	Carla Souza
Checked by:	Erik Sodomis
Project Manager:	Erik Sodomis
Updated (dd/mm/yy)	03/06/20

Utility	Email Address	Contact Name	Contact Information	First Request		Second Request		MATERIAL RECEIVED
				Date Requested (DD/MM/YY)	Date Received (DD/MM/YY)	Date Requested (DD/MM/YY)	Date Received (DD/MM/YY)	
Sun Canadian Pipeline	plane@sun-canadian.com	Paul Lane	905-690-5606	10-Sep-19		21-Nov-19		No Answer
Telus	telusutilitymarkups@telecom.ca	Stephen Hoy	2696 Matheson Blvd. E, 1st Floor, West Tower, Mississauga, ON L4W 4V5 tel: 905-804-6219	10-Sep-19	19-Sep-19			Email
TransCanada Pipelines	dpresley@mhcplan.com	Darlene Presley	TransCanada PipeLines Limited C/O Lehman & Associates 97 Collier Street, Barrie, ON L4M 1H2 Phone: 1-866-602-0663 Direct: 705-627-2302 Fax: 705-727-9217	10-Sep-19		21-Nov-19		No Answer
Trans-Northern Pipelines Inc.	markupanddrawingrequests@tnpi.ca	Giff Lee	45 Vogell Road, Suite 310 Richmond Hill, Ontario L4B 3P6 Tel.: (289) 475-5384 Fax.: (905) 770-8675	10-Sep-19	10-Oct-19			Email
Zayo (formerly MTS-Allstream)	Utility.Circulations@Zayo.com	Corey Knight	50 Worcester Rd Etobicoke, ON M9W 5X2 tel: 416-649-7509	10-Sep-19	2-Oct-19			Not Conflict