

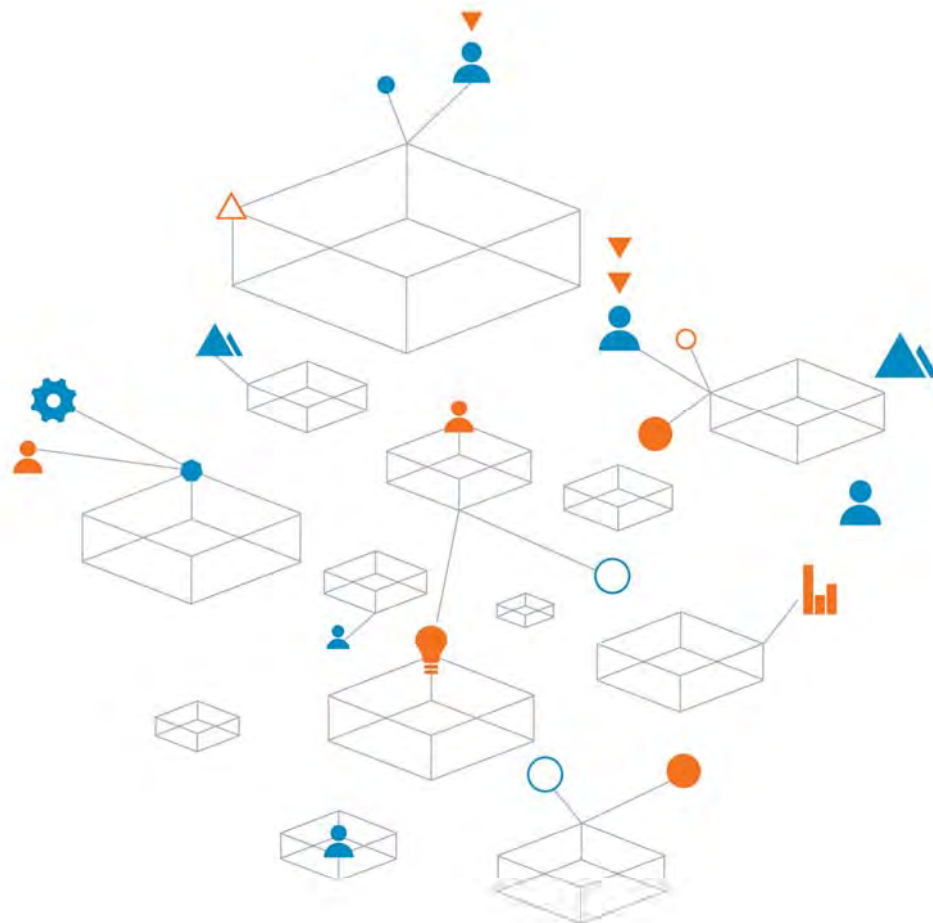
Appendix Q

Culvert Assessment

HDR Corporation
Summary of Findings

Minor Culvert Condition Survey along Bush Street, Mississauga Road,
Old Base Line Road and Winston Churchill Boulevard, Belfountain, ON
GEOTETOB21649AA

02 April 2014



Trust is the
cornerstone
of all our
projects



02 April 2014

HDR Corporation
231 Shearson Crescent
Suite 2061
Cambridge, ON N1T 1J5

Attention: Mr. Tyrone Gan, P. Eng.

**RE: SUMMARY OF FINDINGS (final)
Minor Culvert Condition Survey along Bush Street, Mississauga Road, Olde Baseline Road
and Winston Churchill Boulevard, Belfountain, ON**

1.0 INTRODUCTION

In August 2012, HDR Corporation, on behalf of Peel Region, commissioned *Coffey Geotechnics Inc.* to perform a limited condition survey for all culverts (major and minor) within Peel Region Right-of-Way of the project area. This report (final) summarizes the findings of the limited condition survey.

The scope of work for the work consisted of:

- Visual and surface deterioration survey of all culverts along the roadways (within Peel Right of Way) within the project limits.

The field investigation portion of this assignment was started on September 20, 2012. Due to the winter weather conditions, the field work was suspended in light of poor road work safety and poor visibility of the culverts. The field work resumed in June 2013 and was completed on June 14, 2013.

3.0 SUMMARY OF SIGNIFICANT FINDINGS

General overview and close-up photographs of the culverts are attached. The following table presents the general summary of our important finding. The detail summary is compiled in the Appendix. It is informed that our findings are exclusively derived from the standpoint of geotechnical engineering. Other related aspects of design and construction of culvert, such as recommendations on structural or hydrogeological design, shall be consulted with the concerned specialists.

A culvert list was provided by Peel Region for our planning and review. Discrepancies and additional notes/information are recorded in the Remarks.

Summary of Findings - Minor Culvert Condition Survey Along Bush Street, Mississauga Road, Olde Baseline Road and Winston Churchill Boulevard, Belfountain, ON

Roads	Bush Street	Mississauga Road	Old Baseline Road	Winston Churchill Blvd.	Total
Recommendations					
Culvert Repairing	2	13	4	26*	45
Culvert Replacement	2	5	1	7	15
Flushing	2	6		12	20
Flushing and Grading	2	6	2		10
Grading				1	1
Demolition				2	2
Cleaning				1	1
Number of culverts are in good to fair condition**	3	8	6	14	31
Total number of culvert inspected per road	11	38	13	66	

*some culverts require flushing as well

**see the detail summary for the specific overall condition

4.0 CLOSURE

We trust that this submission is complete. Should you have any further questions, please do not hesitate to contact this office.

For and on behalf of Coffey Geotechnics Inc.

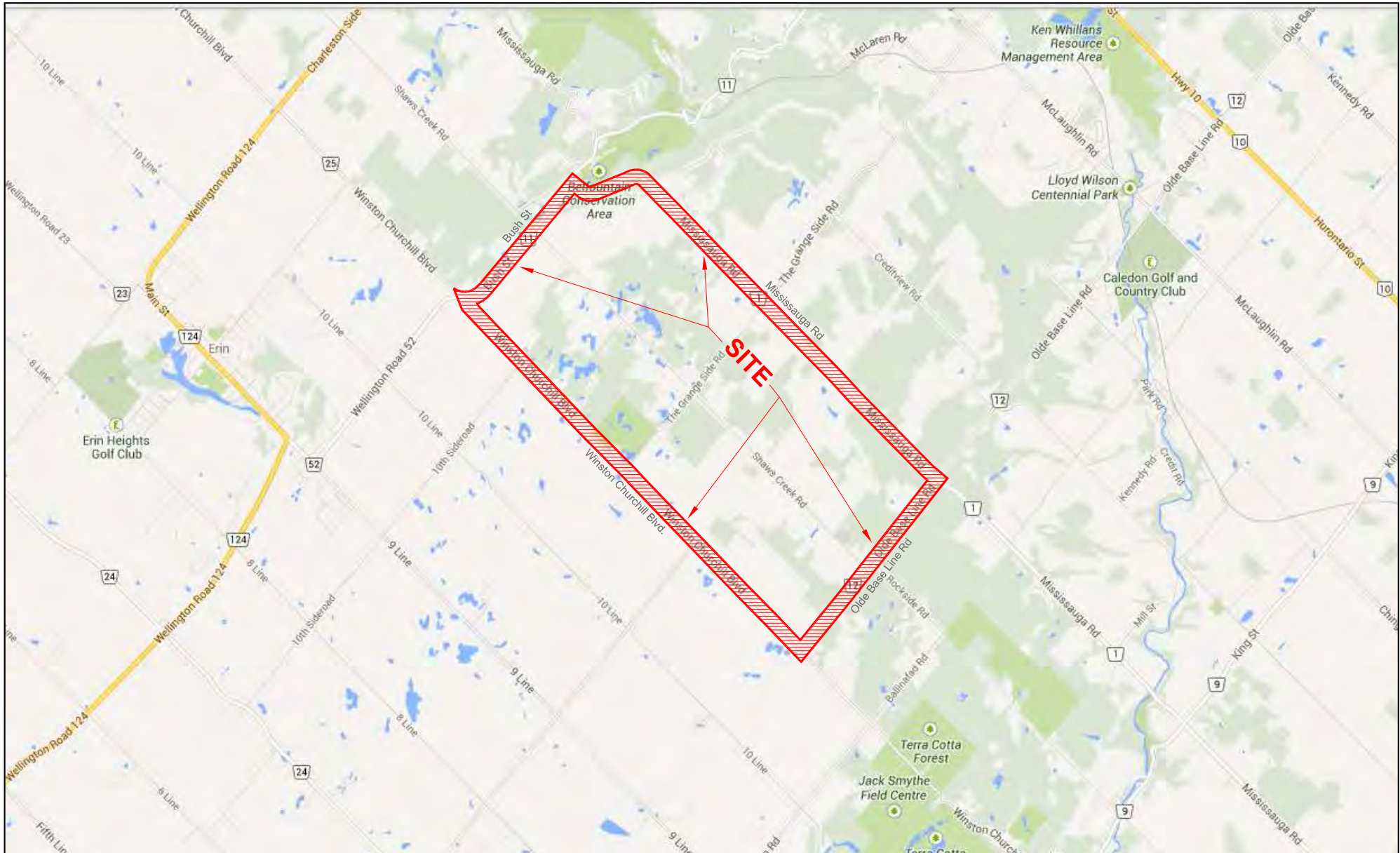
Prem Chand

Prem Chand, P.Eng.
Geotechnical Engineer

Bill Feng

Bill Feng, P.Eng.
Associate Geotechnical Engineer





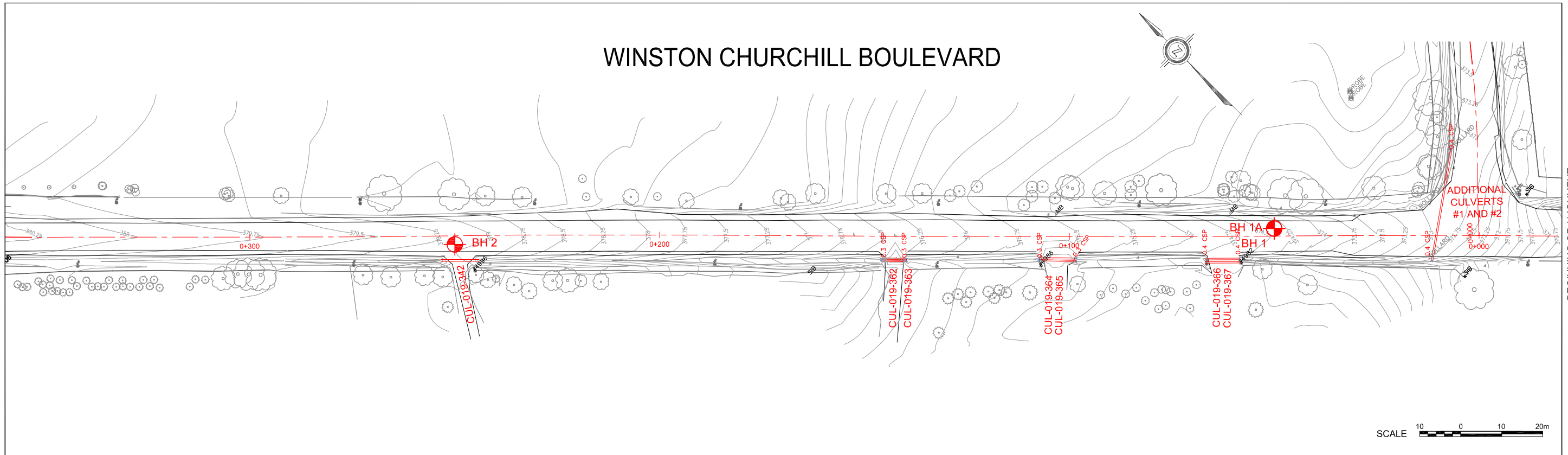
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project:	GEOTECHNICAL INVESTIGATION REGIONAL ROAD CORRIDOR BOUNDED BY WINSTON CHURCHILL BLVD., BUSH ST., OLD MAIN ST., MISSISSAUGA RD., OLDE BASELINE RD. WELLINGTON, ONTARIO	
title:	SITE LOCATION PLAN	
project no:	GEOTETOB21649AA	drawing no: 1

WINSTON CHURCHILL BOULEVARD

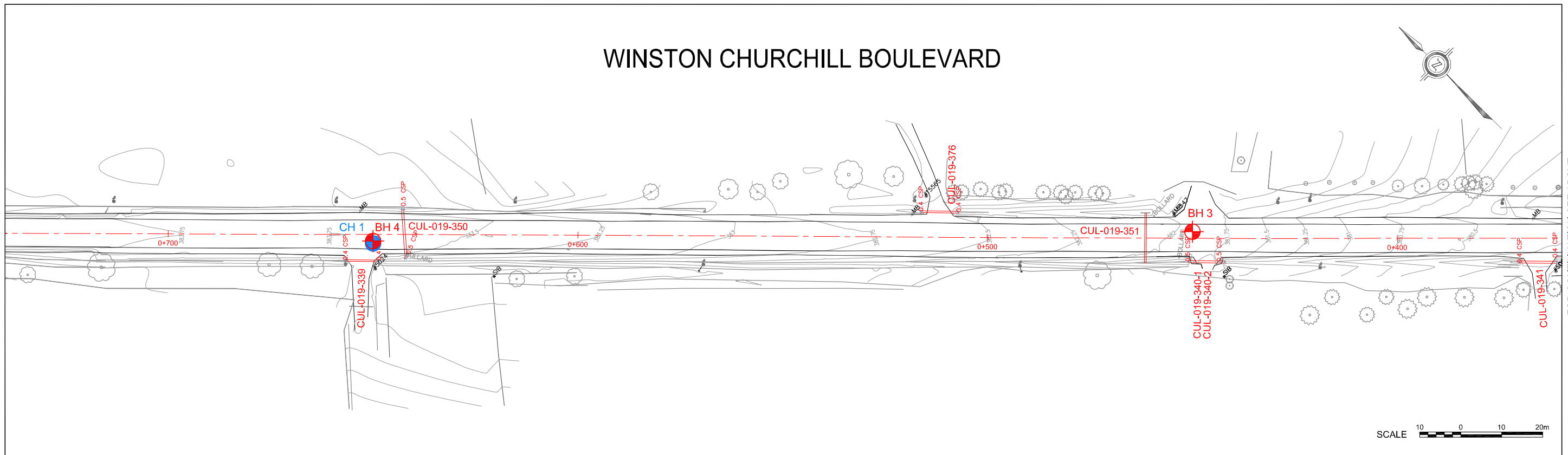
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WINSTON CHURCHILL BOULEVARD

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-  BH BOREHOLE
-  CH CORE HOLE

NOTE:

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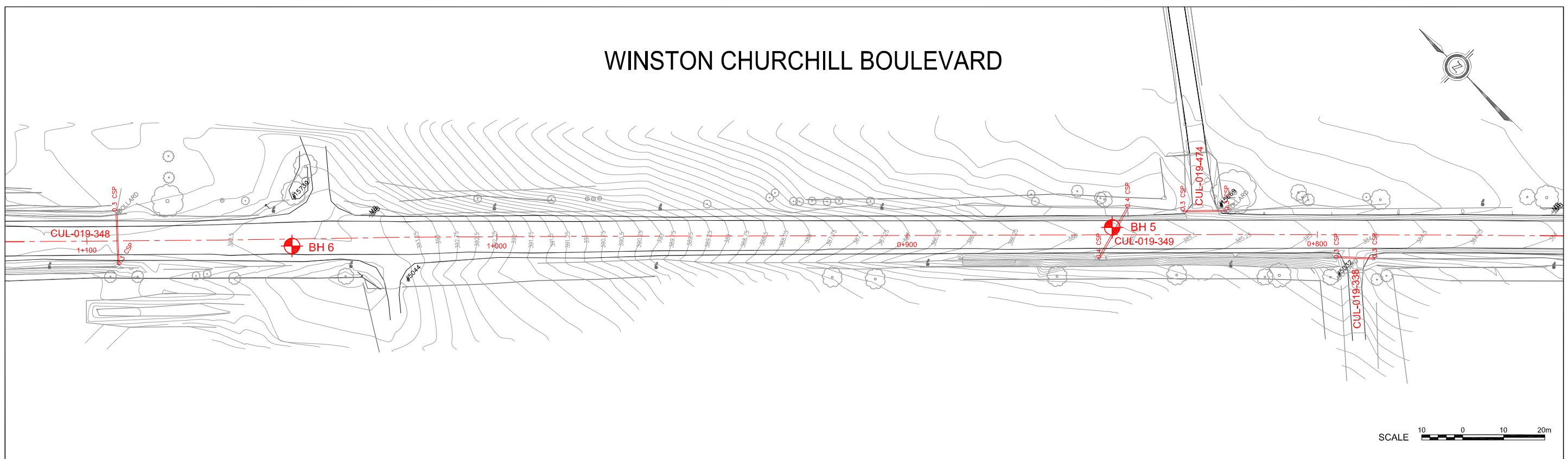
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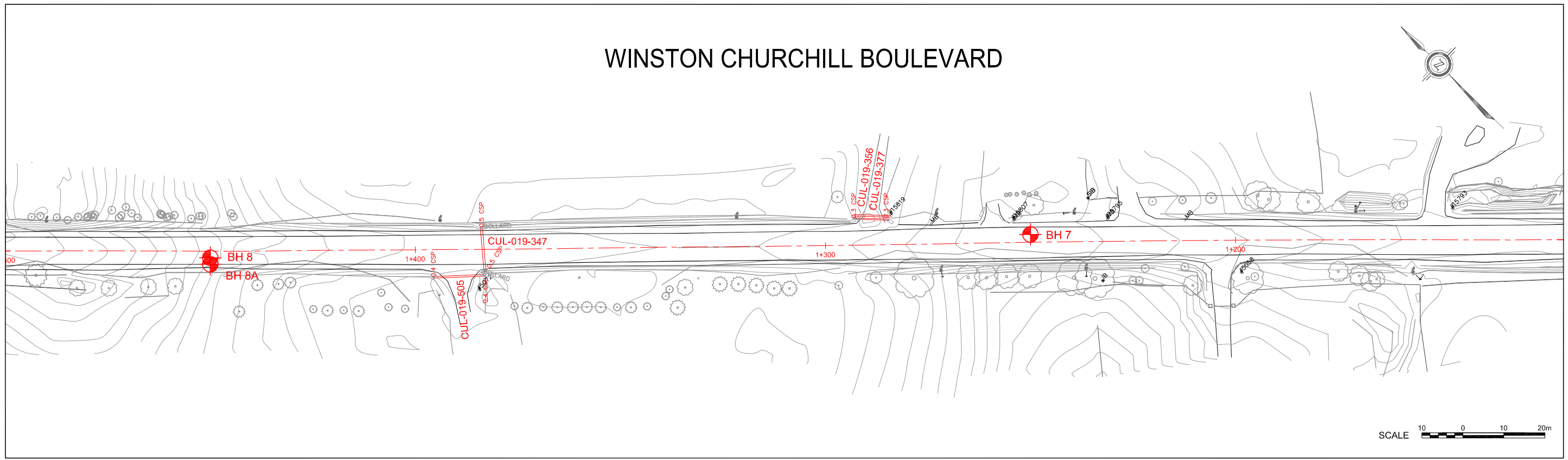
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WINSTON CHURCHILL BOULEVARD

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- LEGEND**
- BH BOREHOLE
 - CH CORE HOLE

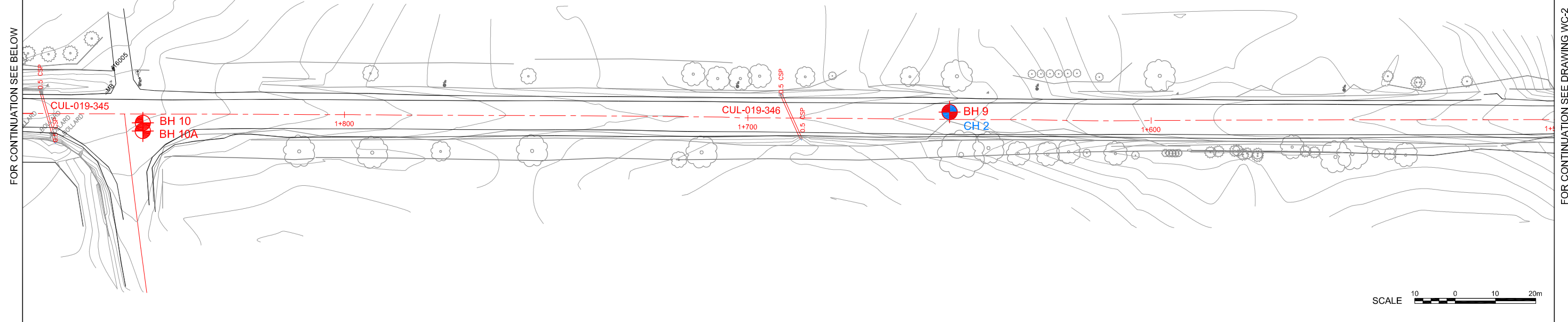
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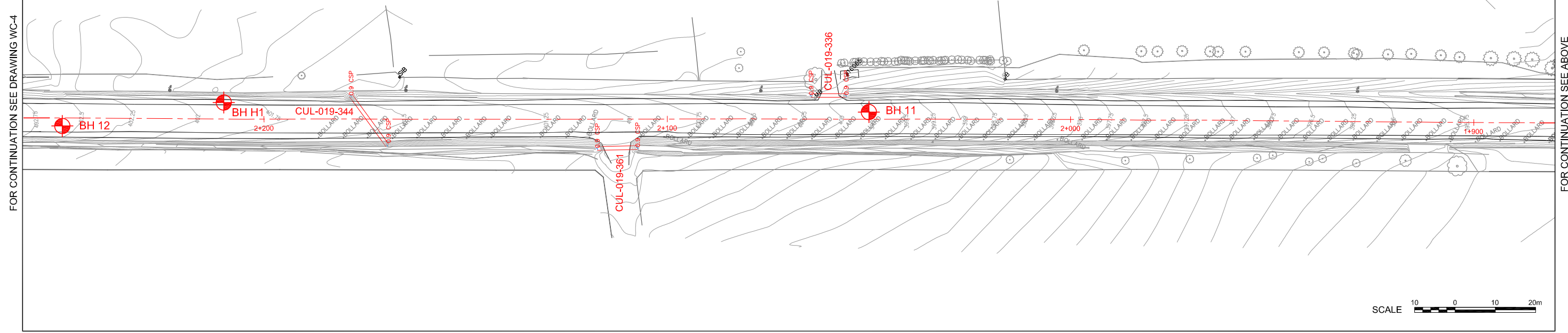
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WINSTON CHURCHILL BOULEVARD



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- CH CORE HOLE

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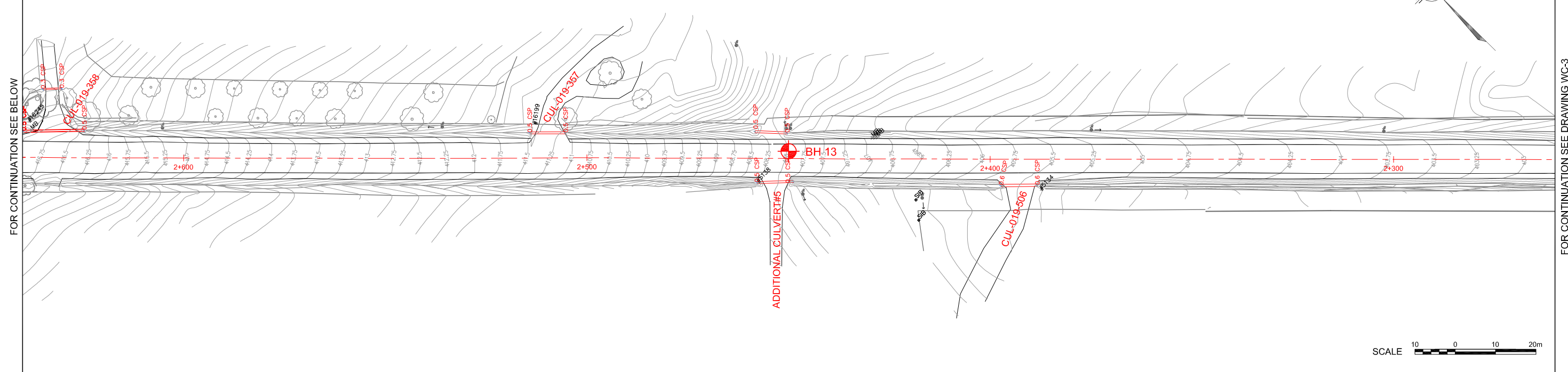
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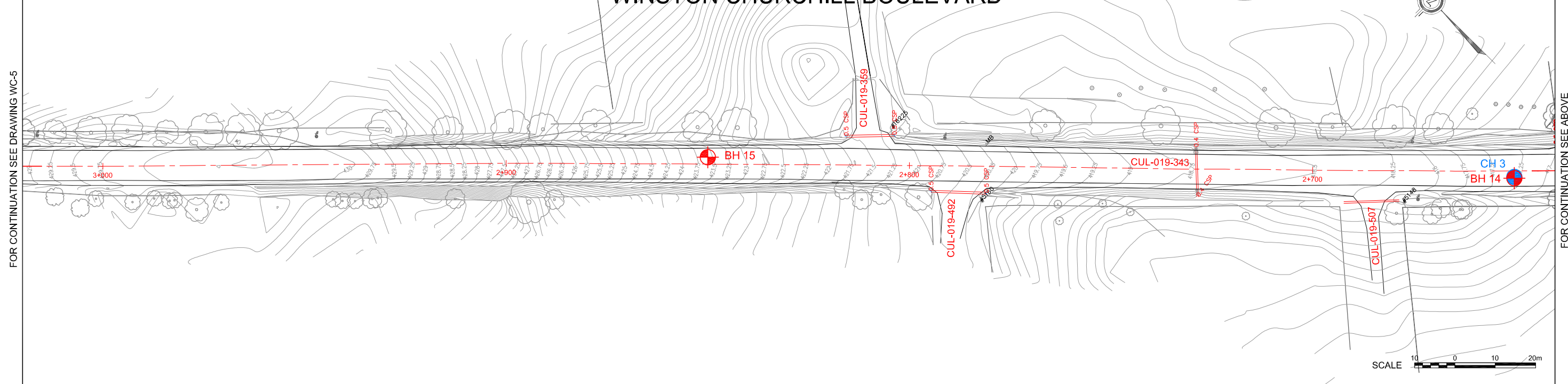


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title:	CULVERT LOCATION PLAN	
project no:	GEOTETOB21649AA	drawing no: WC-3



WINSTON CHURCHILL BOULEVARD



WINSTON CHURCHILL BOULEVARD



LEGEND

-  BH BOREHOLE
-  CH CORE HOLE

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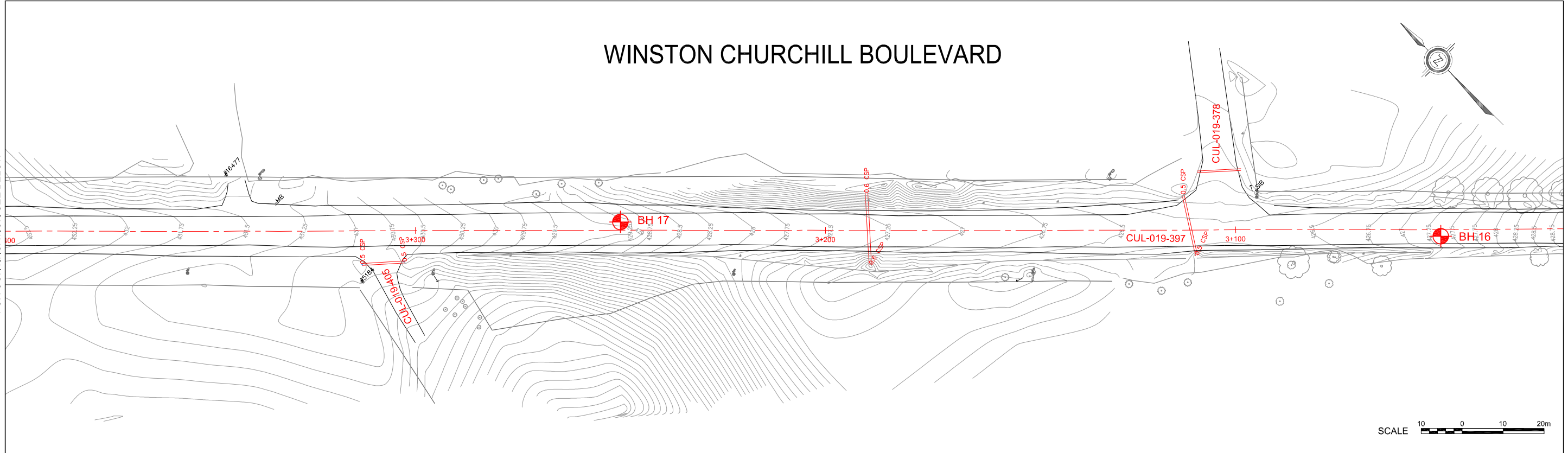
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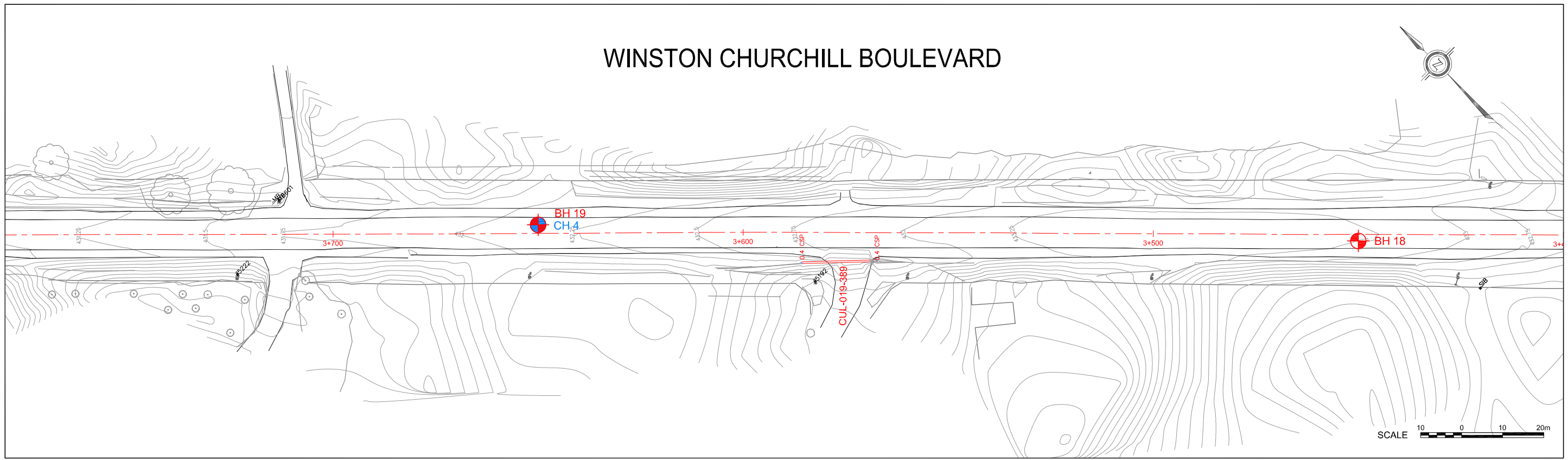
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	CH	CORE HOLE

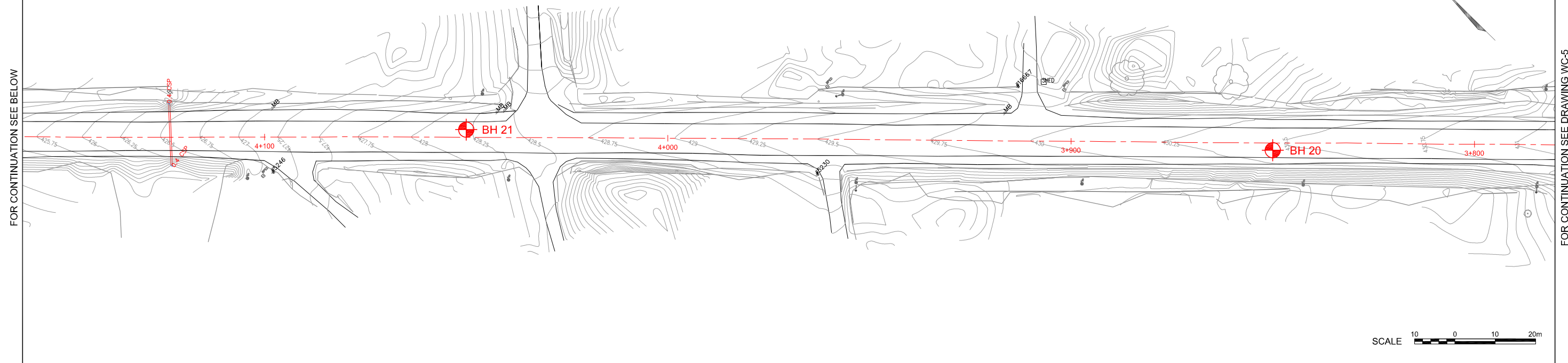
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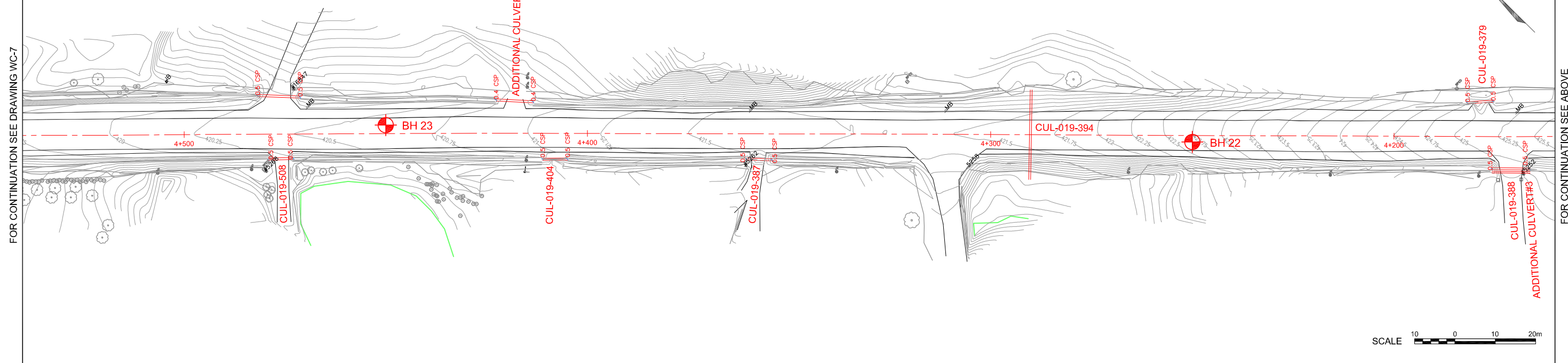


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title:	CULVERT LOCATION PLAN	
project no:	GEOTETOB21649AA	drawing no: WC-5



WINSTON CHURCHILL BOULEVARD



WINSTON CHURCHILL BOULEVARD



LEGEND

-  BH BOREHOLE
-  CH CORE HOLE

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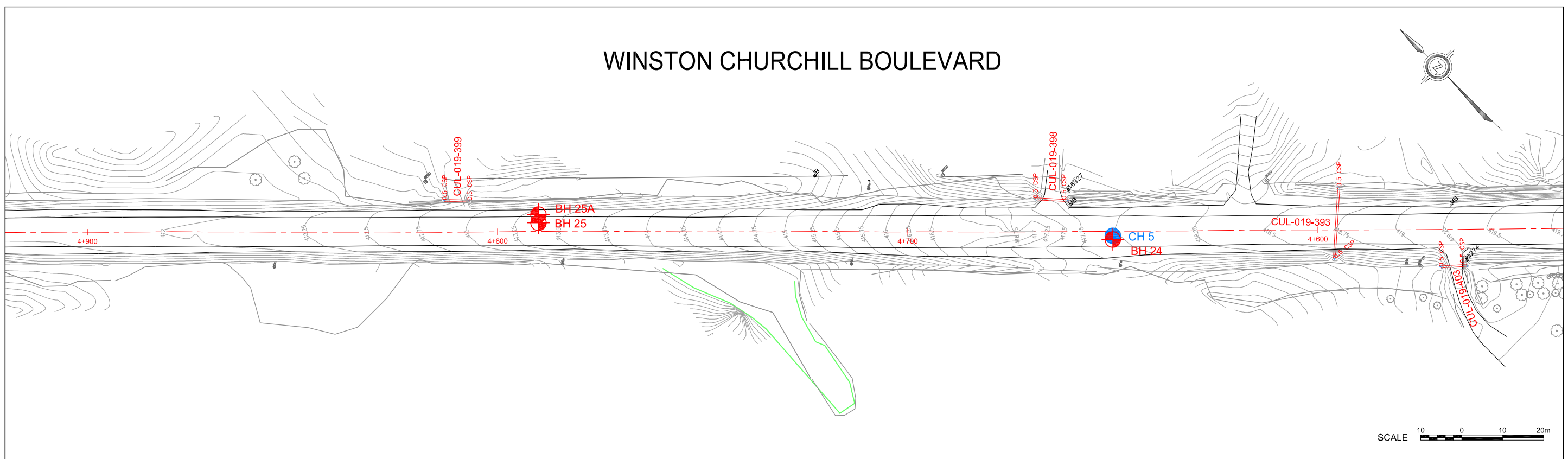
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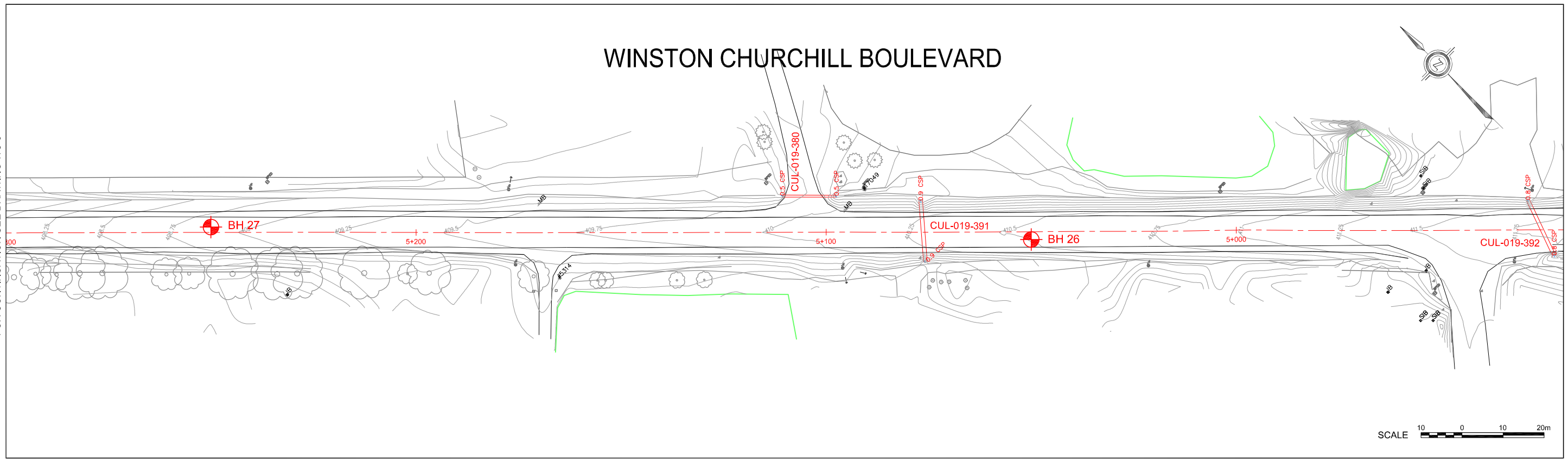
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WINSTON CHURCHILL BOULEVARD

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FOR CONTINUATION SEE ABOVE

LEGEND

- BH BOREHOLE
- CH CORE HOLE

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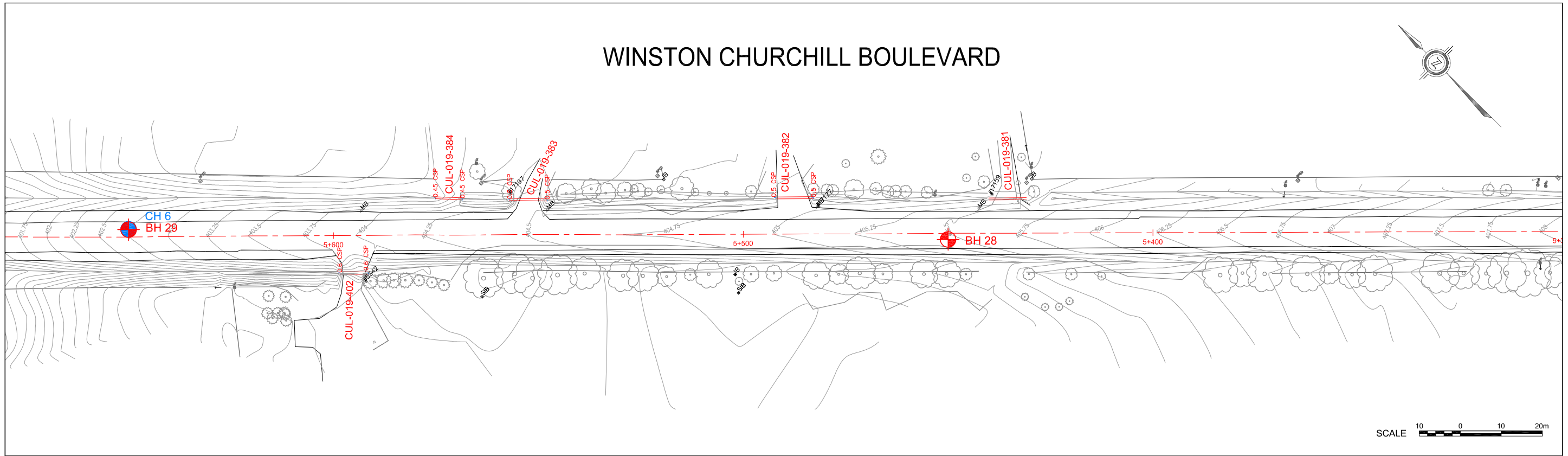
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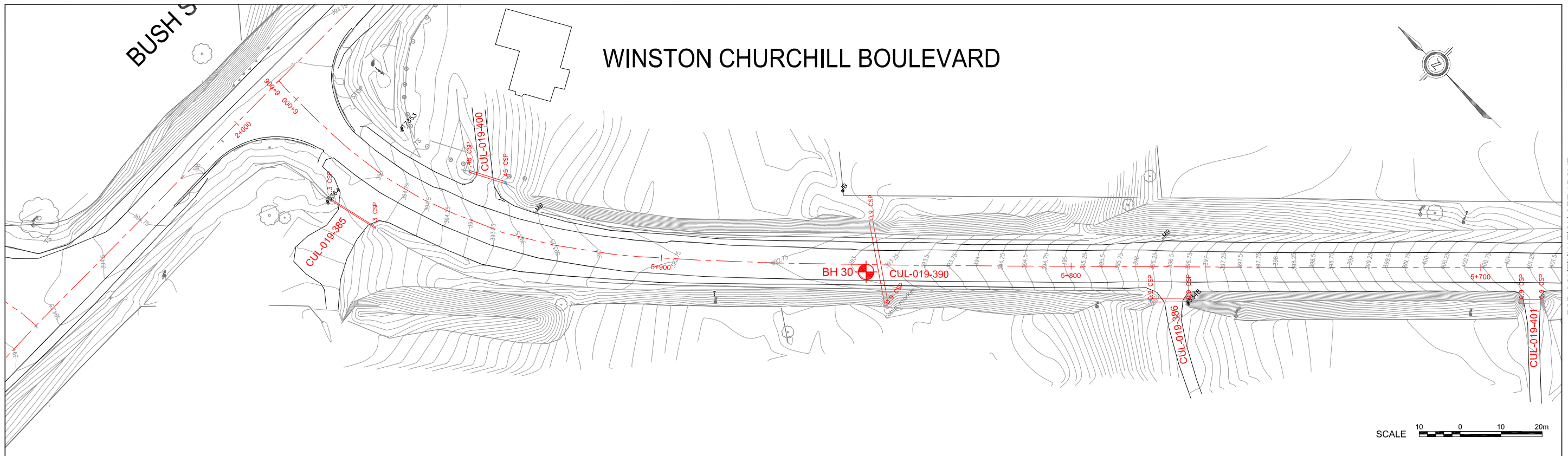
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WINSTON CHURCHILL BOULEVARD

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- BH BOREHOLE
- CH CORE HOLE

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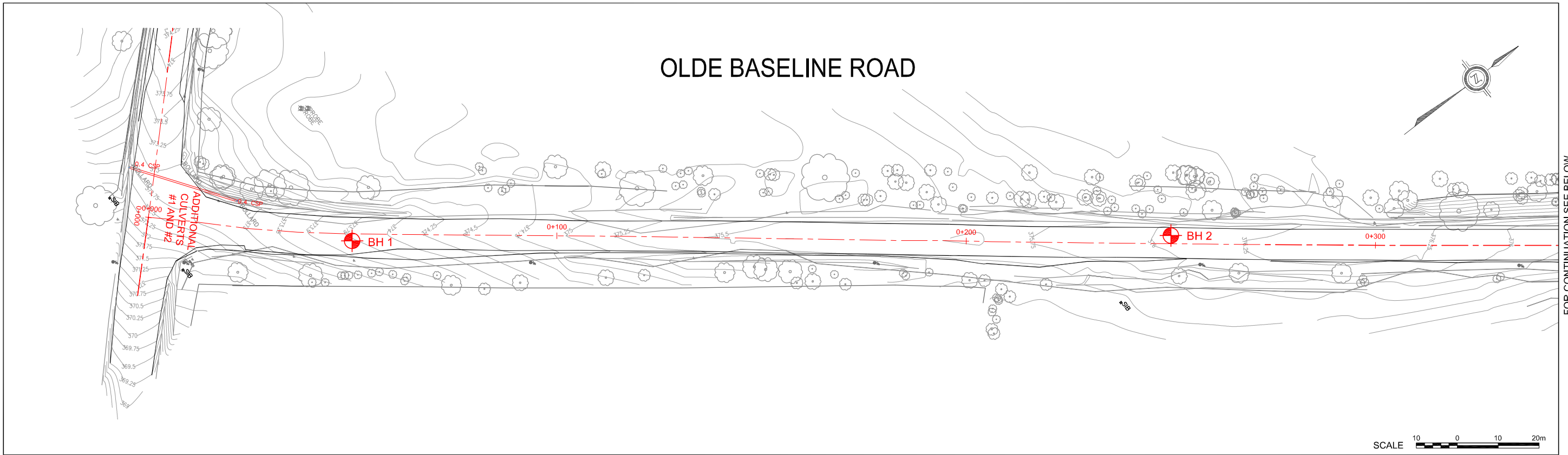


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OLDE BASELINE ROAD

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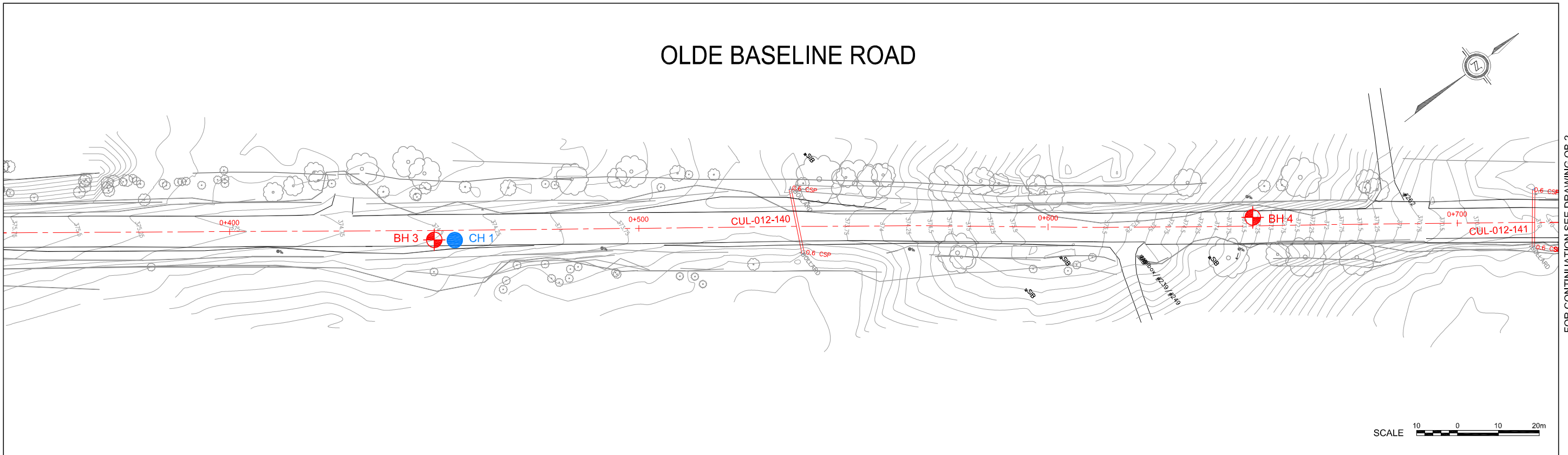
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OLDE BASELINE ROAD

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LEGEND

-  **BH** BOREHOLE
-  **CH** CORE HOLE

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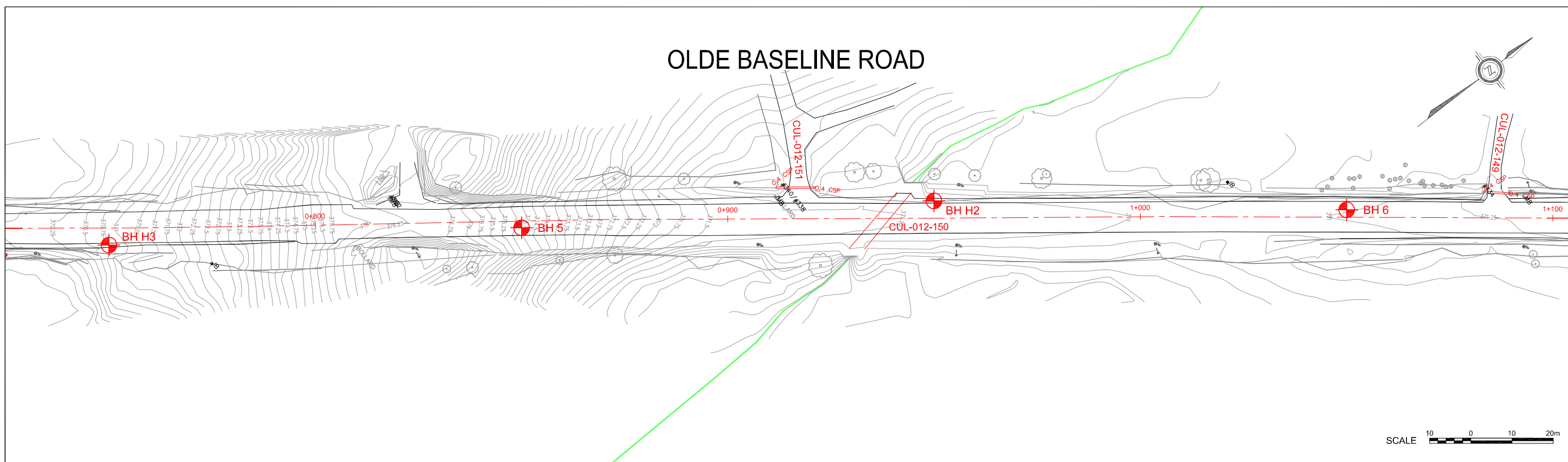
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title:	CULVERT LOCATION PLAN	
project no:	GEOTETOB21649AA	drawing no: OB-1

OLDE BASELINE ROAD

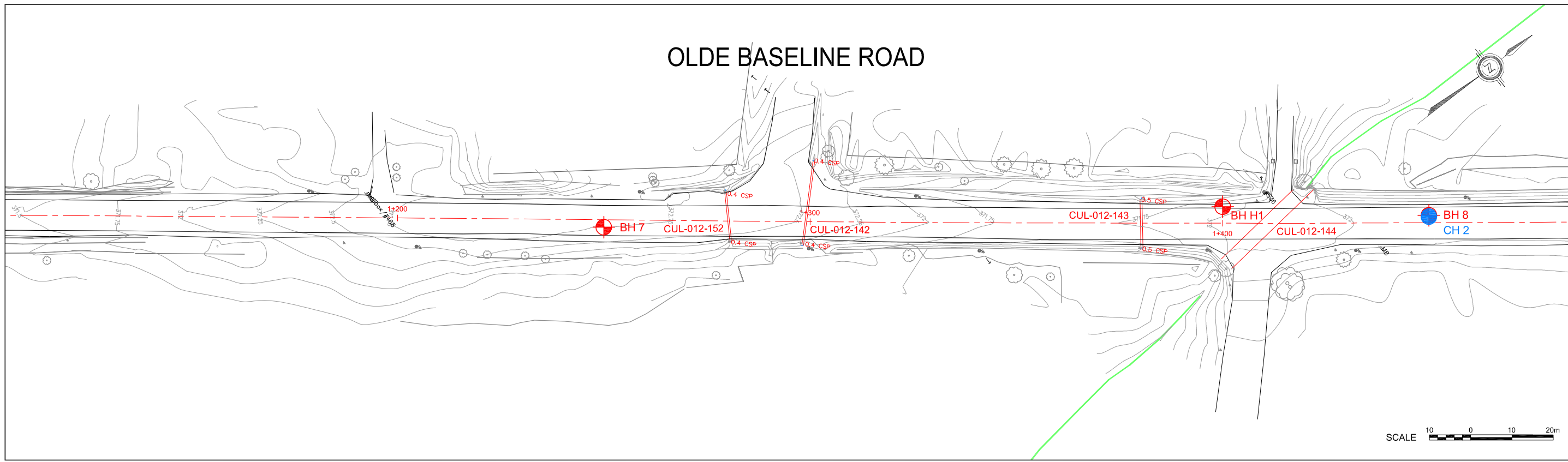
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OLDE BASELINE ROAD

FOR CONTINUATION SEE ABOVE



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- LEGEND**
- ⊕ BH BOREHOLE
 - CH CORE HOLE

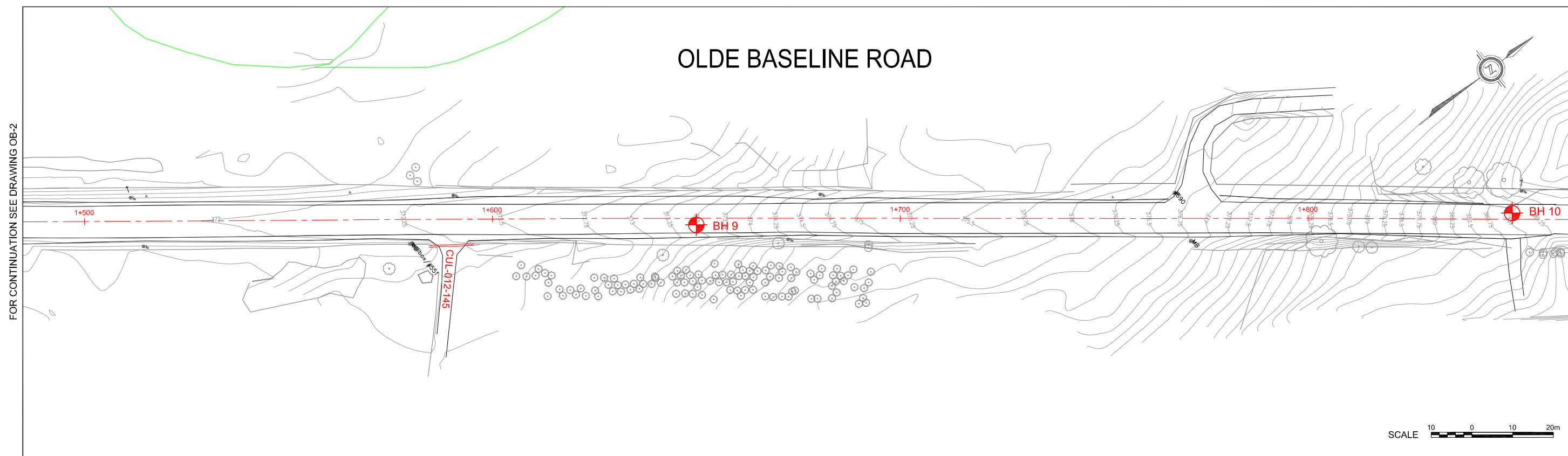
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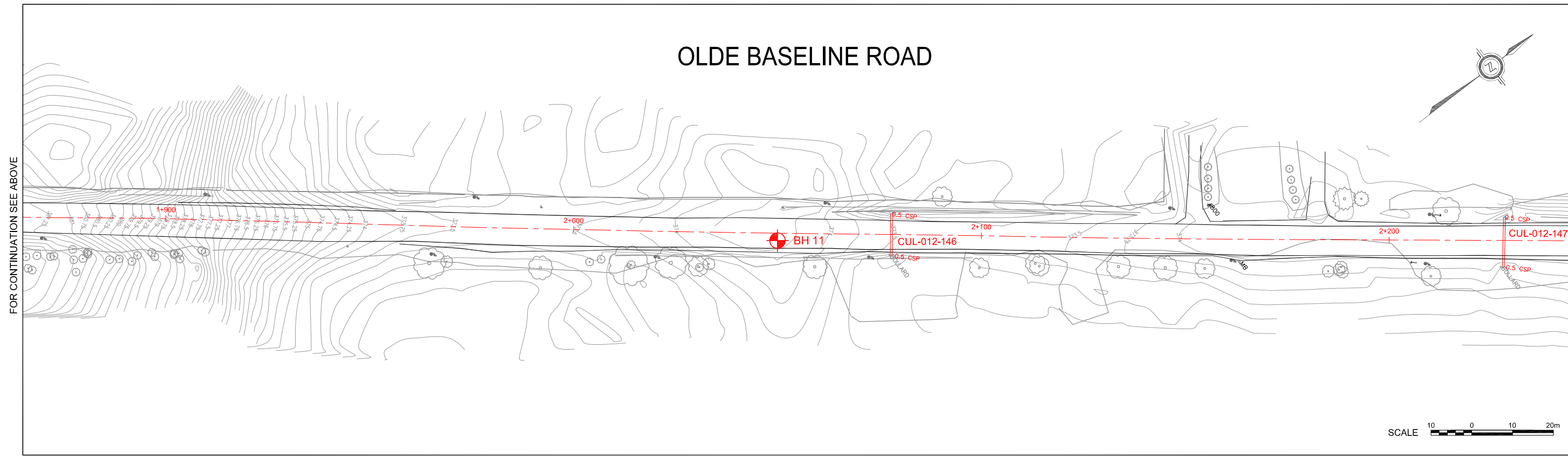
OLDE BASELINE ROAD



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OLDE BASELINE ROAD



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- LEGEND**
- BH BOREHOLE
 - CH CORE HOLE

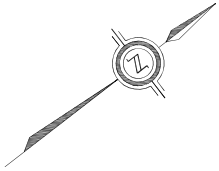
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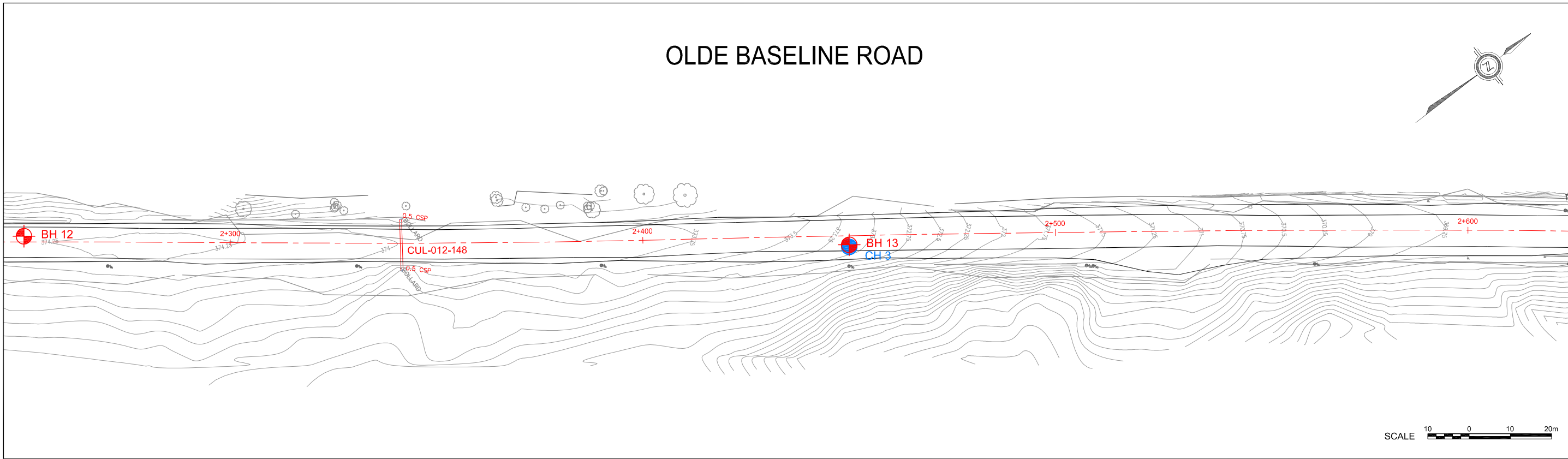


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title:	CULVERT LOCATION PLAN	
project no:	GEOTETOB21649AA	drawing no: OB-3

OLDE BASELINE ROAD



FOR CONTINUATION SEE DRAWING OB-3

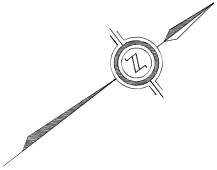


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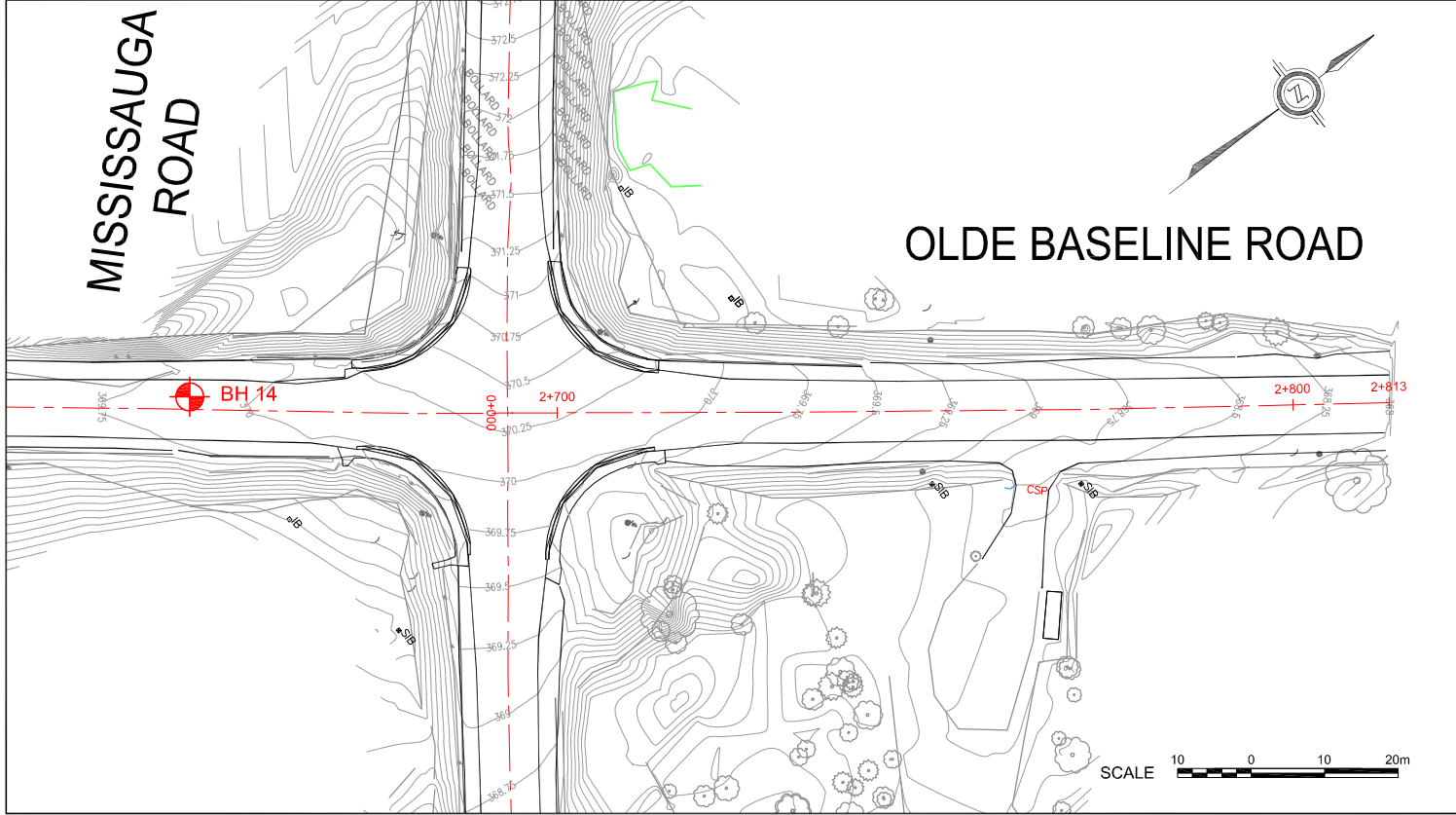
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MISSISSAUGA ROAD

OLDE BASELINE ROAD



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END OF ALIGNMENT

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-  CH CORE HOLE

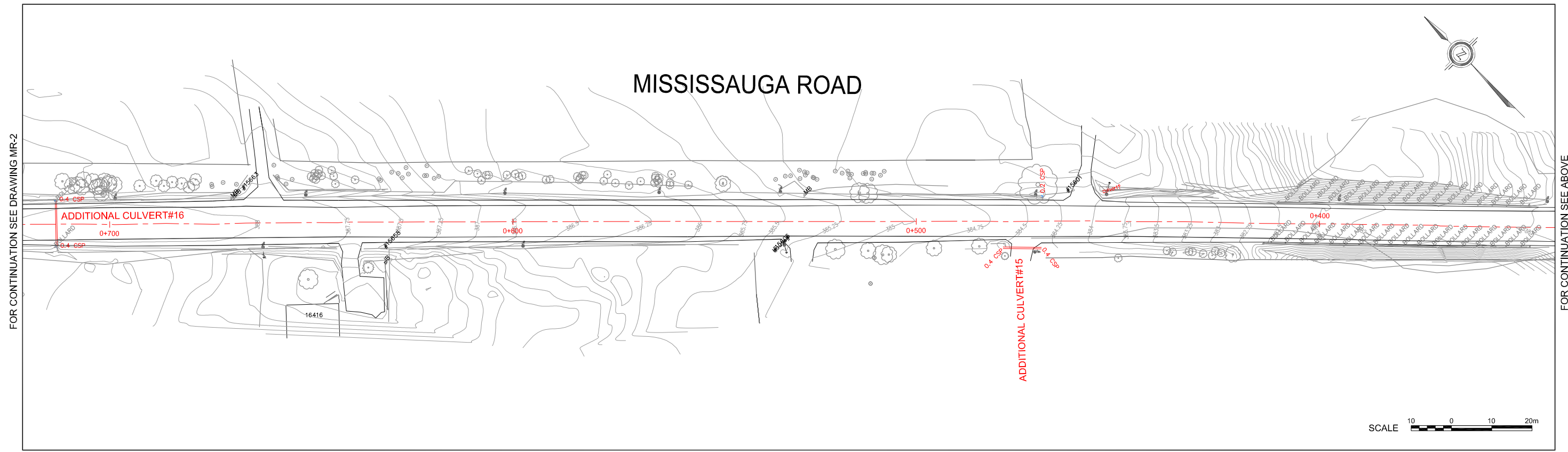
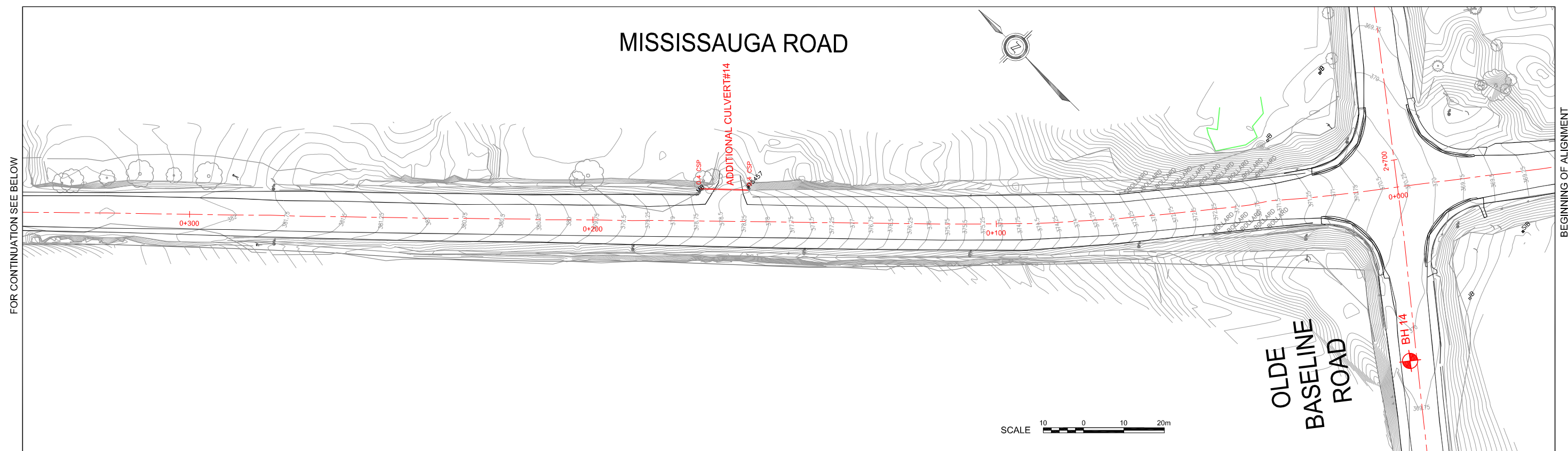
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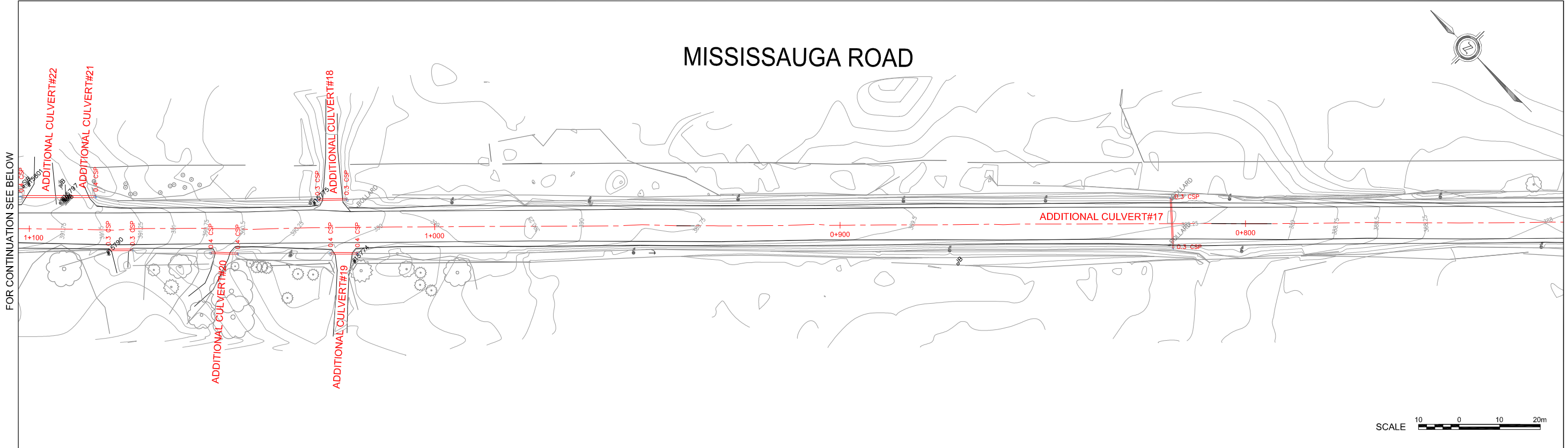
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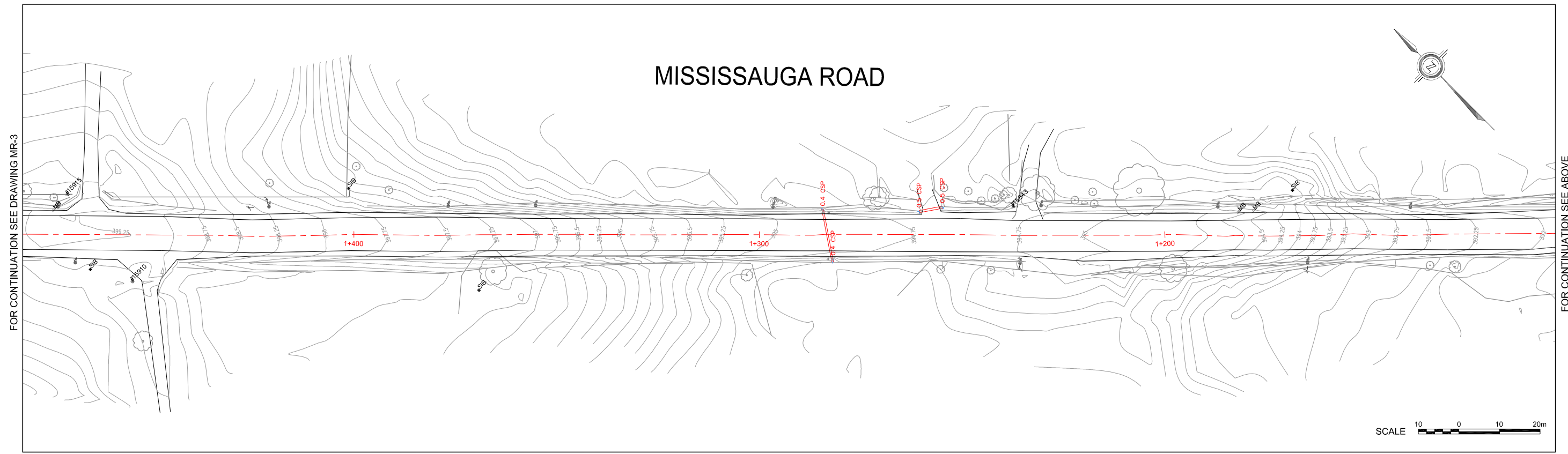
MISSISSAUGA ROAD



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FOR CONTINUATION SEE DRAWING MR-1

MISSISSAUGA ROAD



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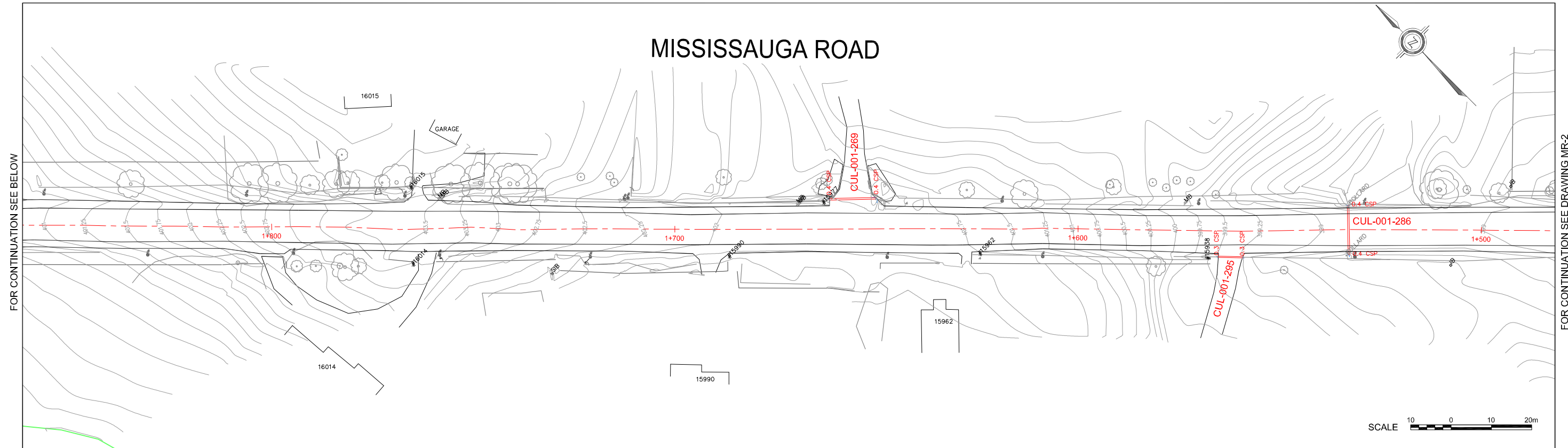
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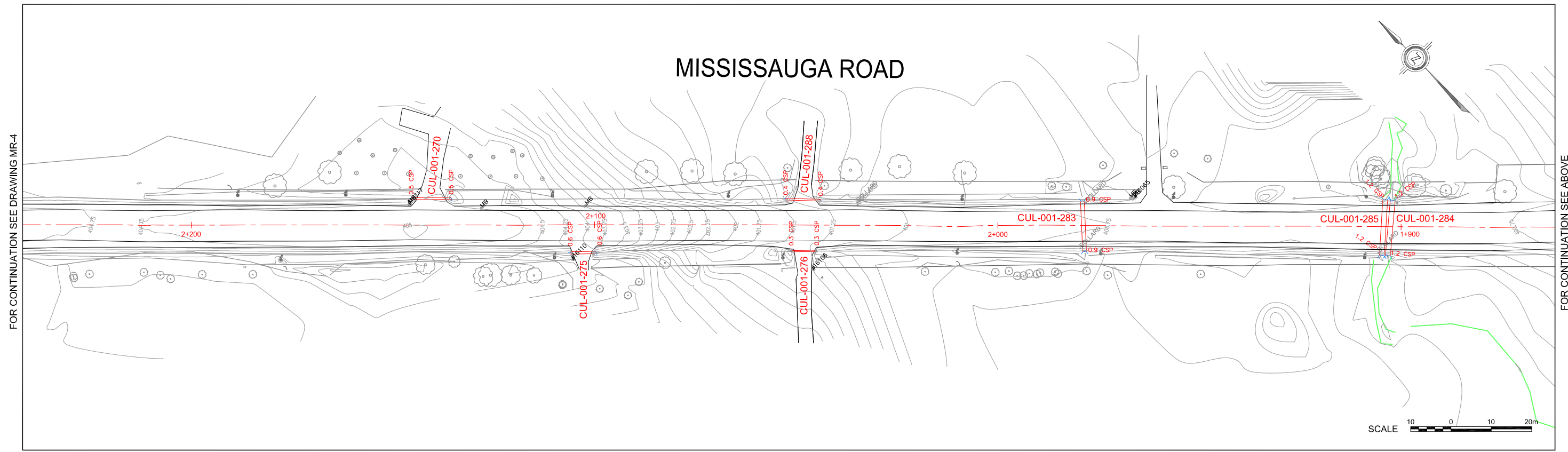
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MISSISSAUGA ROAD



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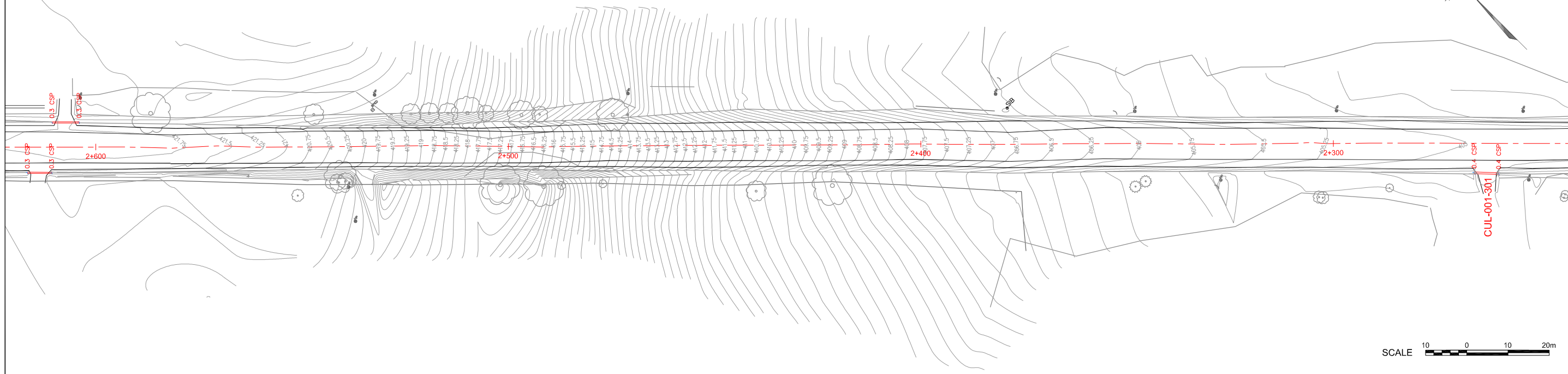
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MISSISSAUGA ROAD

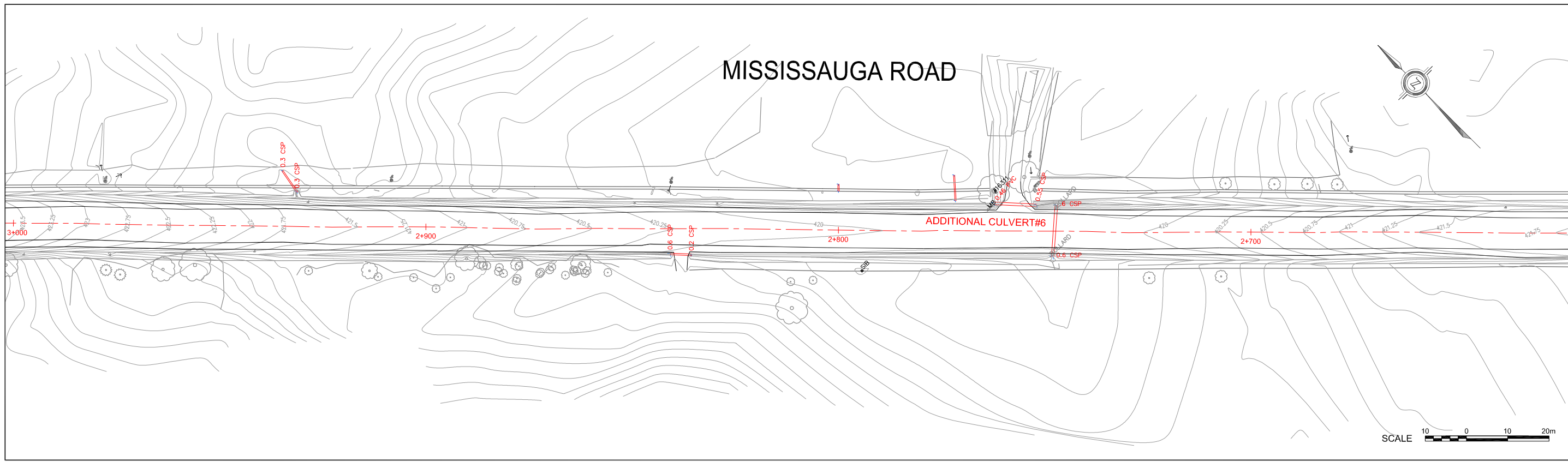
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FOR CONTINUATION SEE DRAWING MR-3

MISSISSAUGA ROAD

FOR CONTINUATION SEE DRAWING MR-5



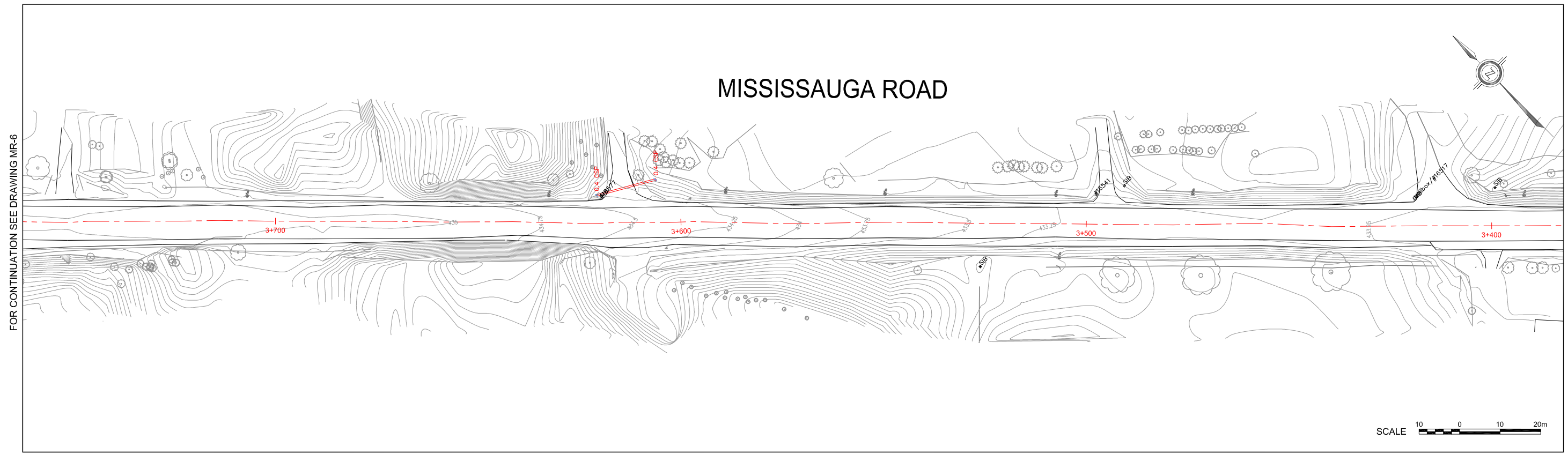
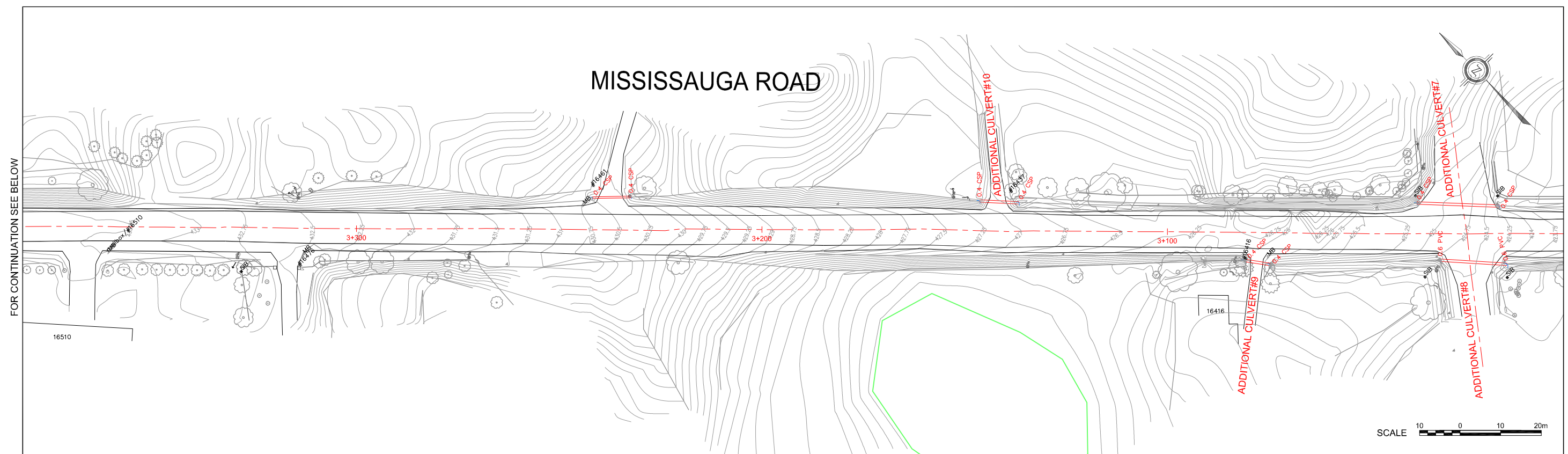
FOR CONTINUATION SEE ABOVE

NOTE:
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drawn	SH
approved	PC / BF
date	MARCH, 2014
scale	AS SHOWN
original size	Tabloid



client:	HDR CORPORATION	
project:	GEOTECHNICAL INVESTIGATION REGIONAL ROAD CORRIDOR BOUNDED BY WINSTON CHURCHILL BLVD., BUSH ST., OLD MAIN ST., MISSISSAUGA RD., OLDE BASELINE RD. WELLINGTON, ONTARIO	
title:	CULVERT LOCATION PLAN	
project no:	GEOTETOB21649AA	drawing no: MR-4

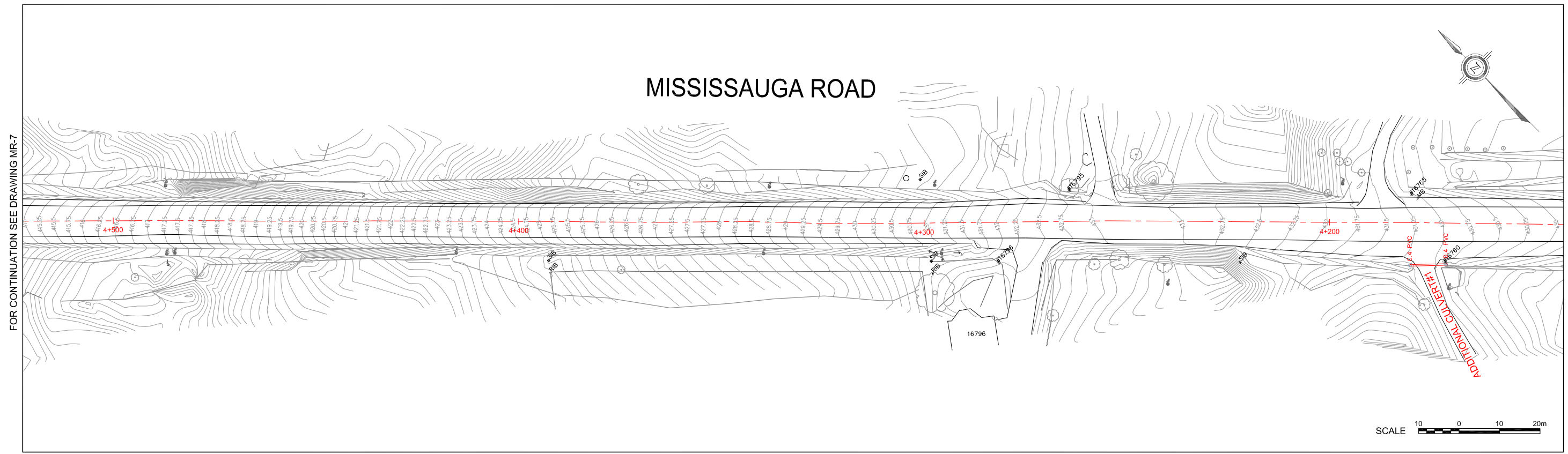
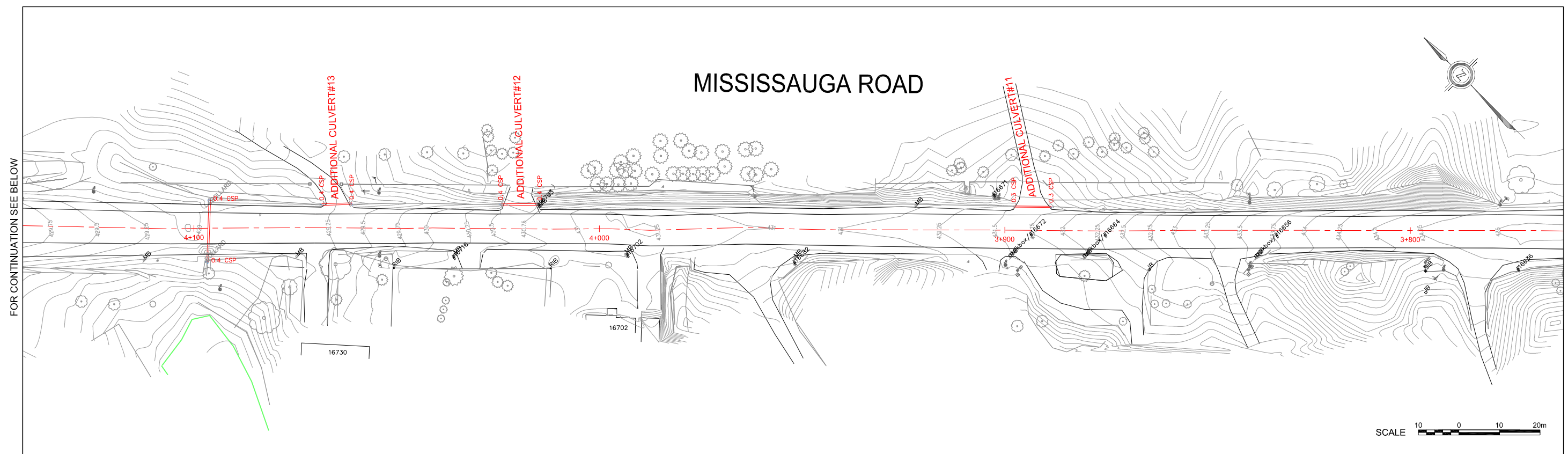


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approved	PC / BF
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project:	GEOTECHNICAL INVESTIGATION REGIONAL ROAD CORRIDOR BOUNDED BY WINSTON CHURCHILL BLVD., BUSH ST., OLD MAIN ST., MISSISSAUGA RD., OLDE BASELINE RD. WELLINGTON, ONTARIO	
title:	CULVERT LOCATION PLAN	
project no:	GEOTETOB21649AA	drawing no: MR-5



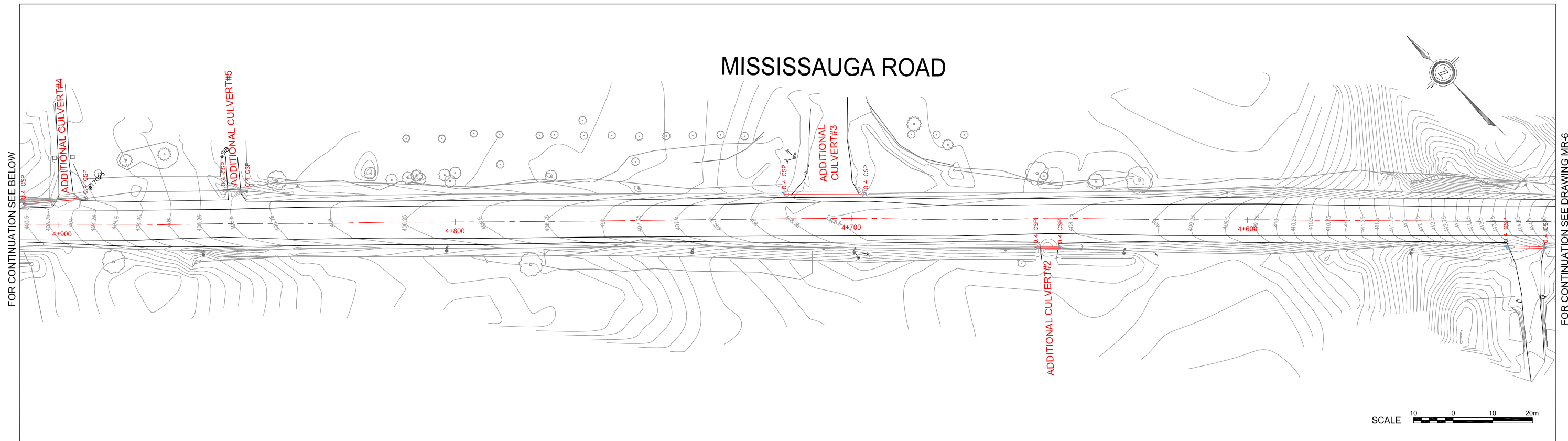
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approved	PC / BF
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title:	CULVERT LOCATION PLAN	
project no:	GEOTETOB21649AA	drawing no: MR-6

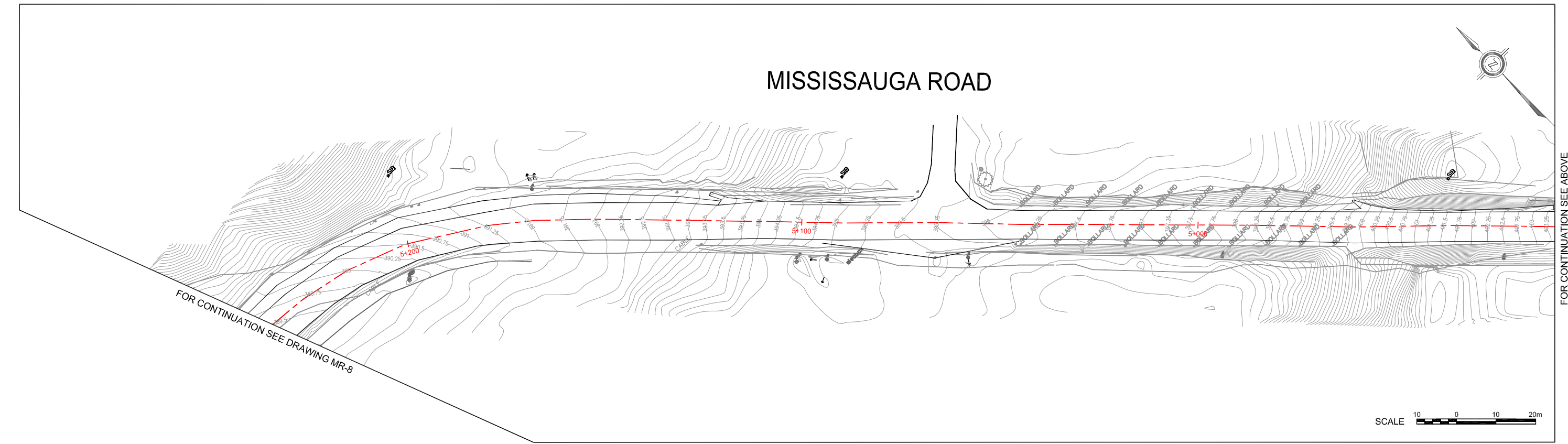
MISSISSAUGA ROAD



FOR CONTINUATION SEE BELOW

FOR CONTINUATION SEE DRAWING MR-6

MISSISSAUGA ROAD



FOR CONTINUATION SEE DRAWING MR-8

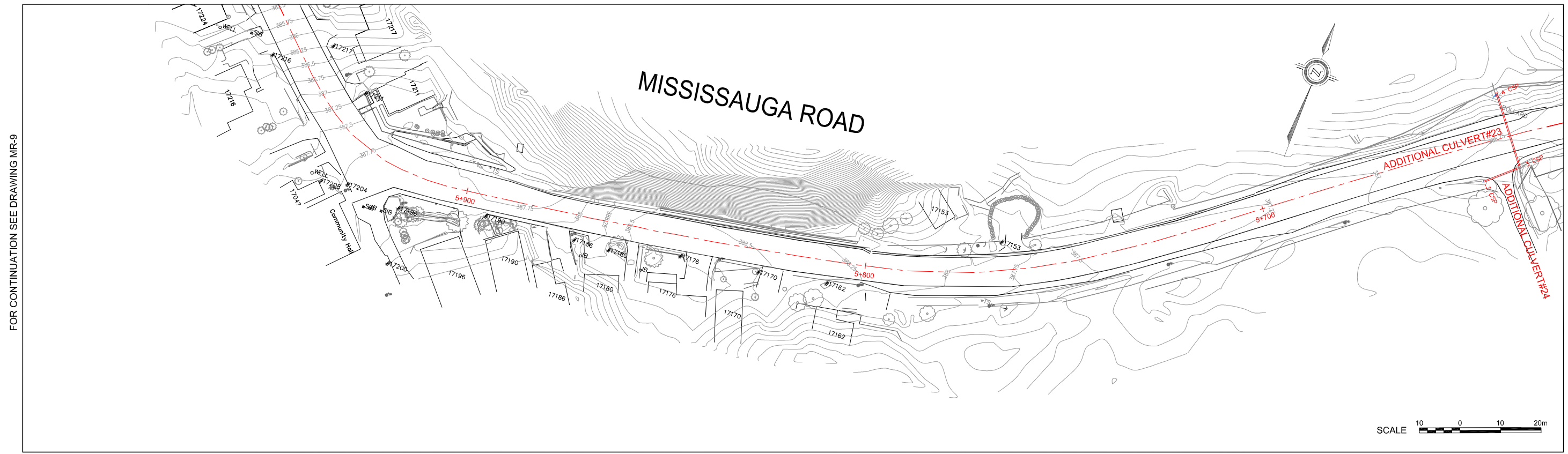
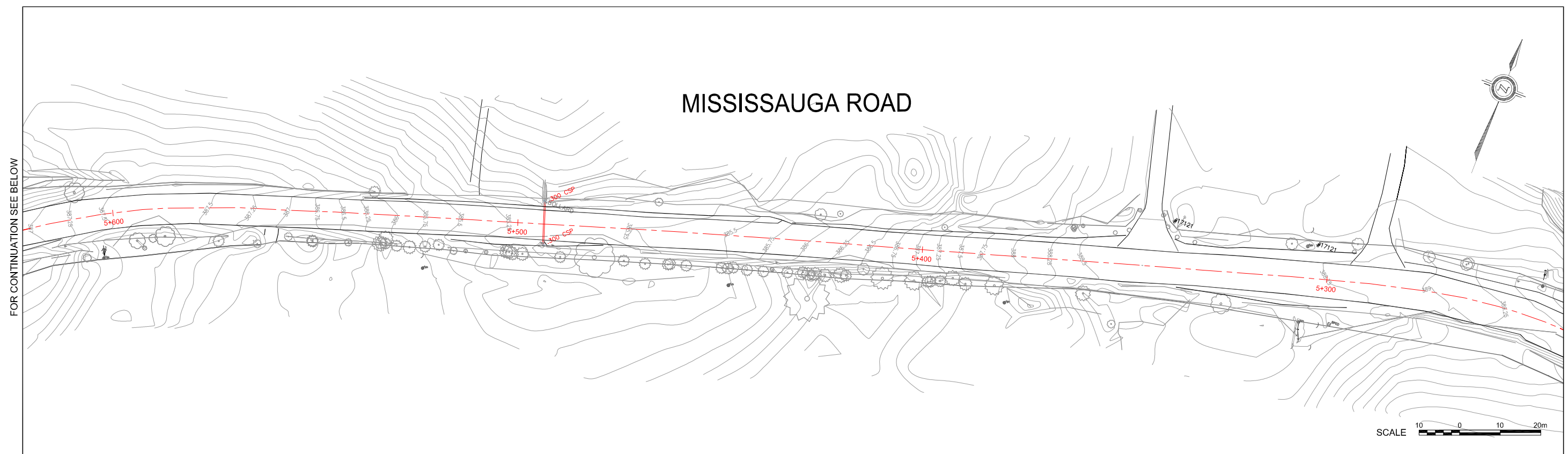
FOR CONTINUATION SEE ABOVE

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approved	PC / BF
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client:	HDR CORPORATION	
project:	GEOTECHNICAL INVESTIGATION REGIONAL ROAD CORRIDOR BOUNDED BY WINSTON CHURCHILL BLVD., BUSH ST., OLD MAIN ST., MISSISSAUGA RD., OLDE BASELINE RD. WELLINGTON, ONTARIO	
title:	CULVERT LOCATION PLAN	
project no:	GEOTETOB21649AA	drawing no: MR-7

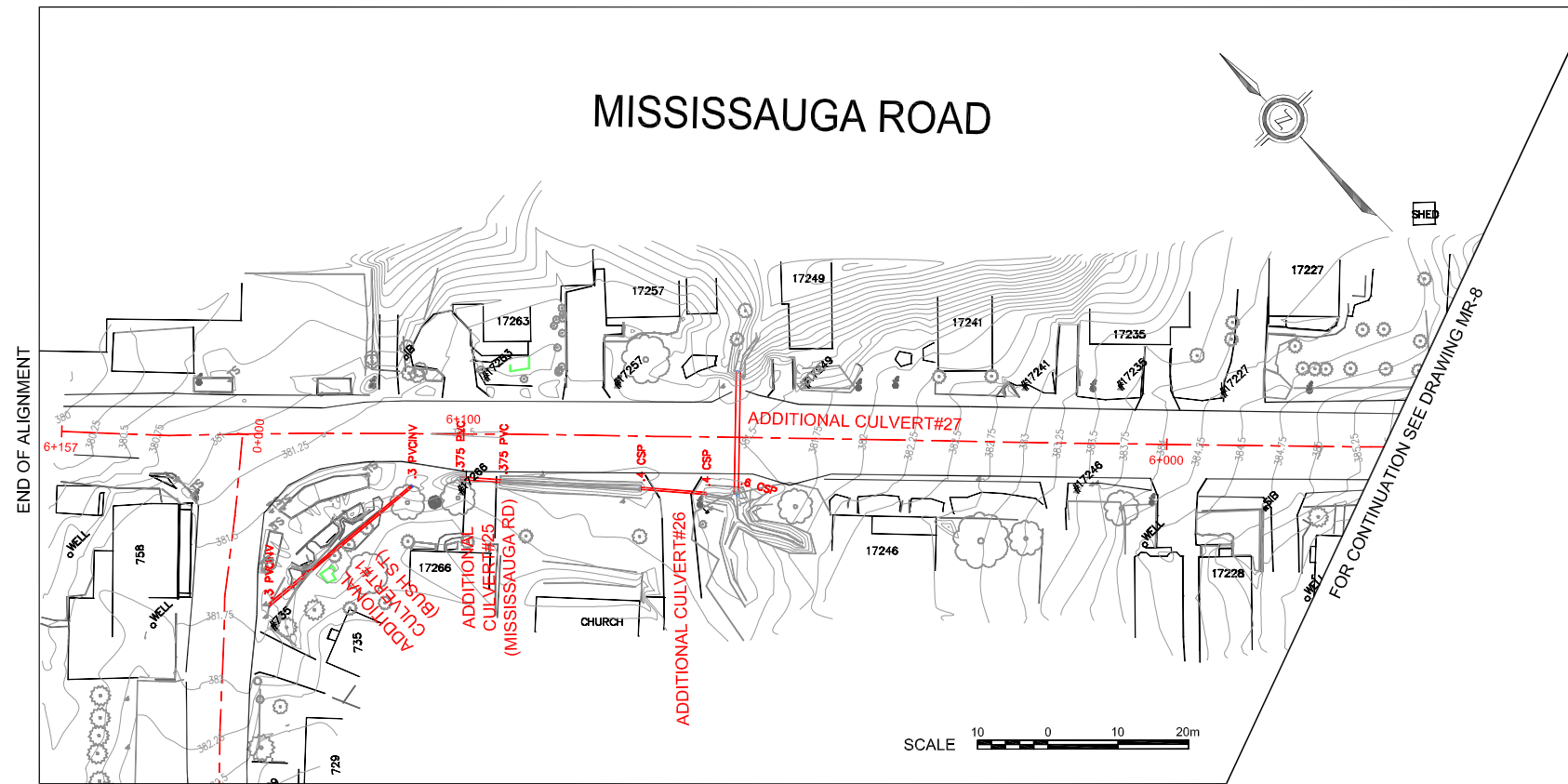


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approved	PC / BF
date	MARCH, 2014
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client:	HDR CORPORATION	
project:	GEOTECHNICAL INVESTIGATION REGIONAL ROAD CORRIDOR BOUNDED BY WINSTON CHURCHILL BLVD., BUSH ST., OLD MAIN ST., MISSISSAUGA RD., OLDE BASELINE RD. WELLINGTON, ONTARIO	
title:	CULVERT LOCATION PLAN	
project no:	GEOTETOB21649AA	drawing no: MR-8



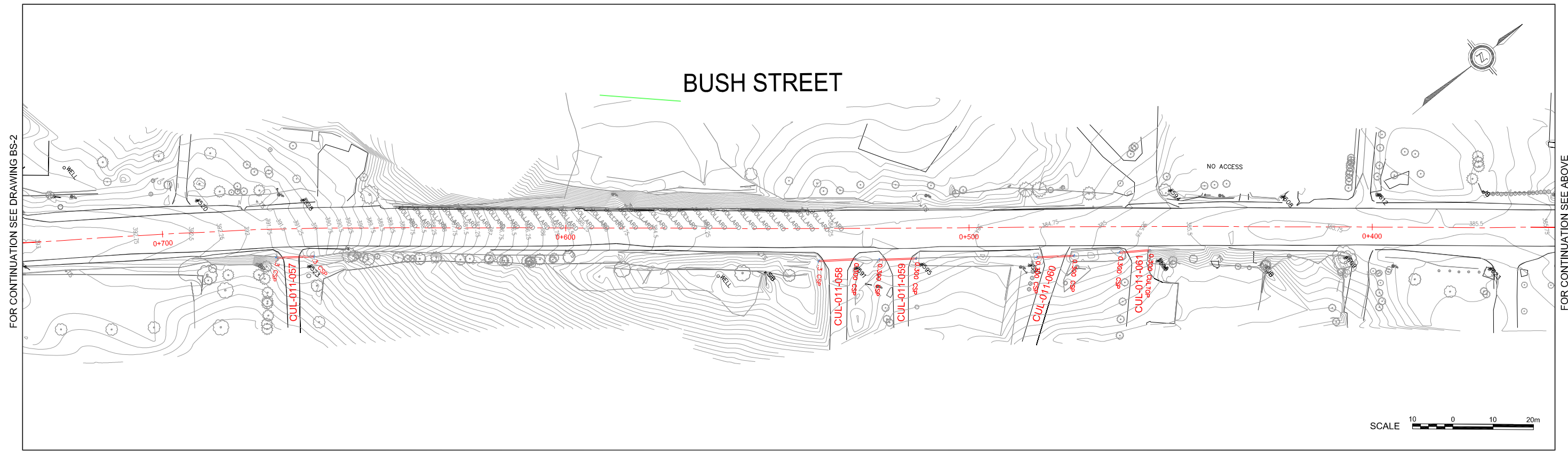
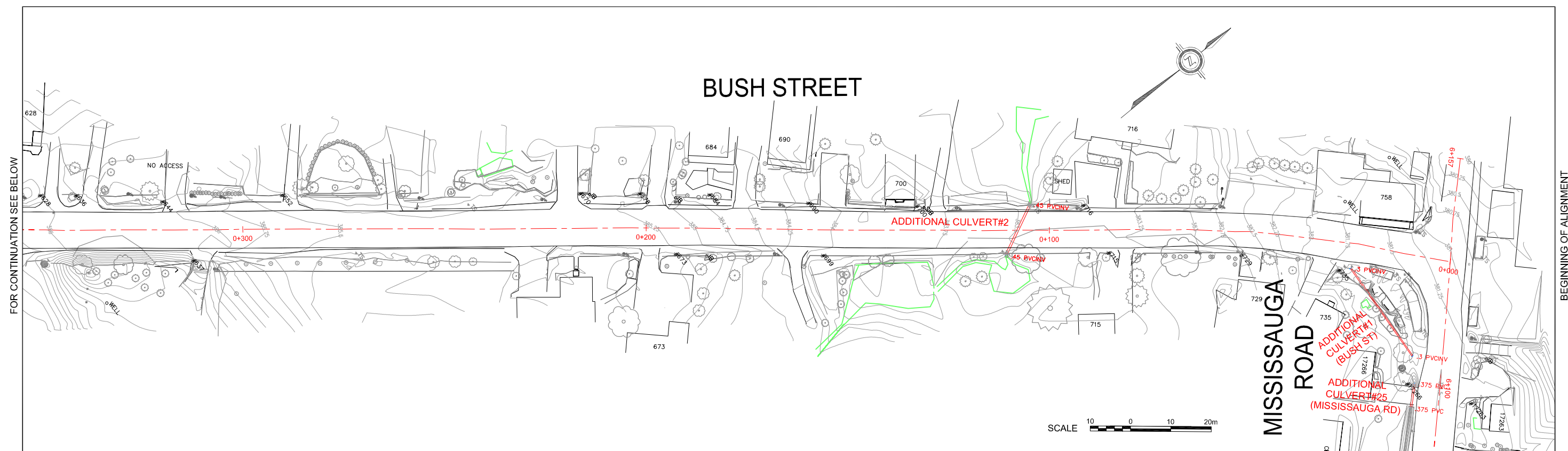
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client:	HDR CORPORATION	
project:	GEOTECHNICAL INVESTIGATION REGIONAL ROAD CORRIDOR BOUNDED BY WINSTON CHURCHILL BLVD., BUSH ST., OLD MAIN ST., MISSISSAUGA RD., OLDE BASELINE RD. WELLINGTON, ONTARIO	
title:	CULVERT LOCATION PLAN	
project no:	GEOTETOB21649AA	drawing no: MR-9

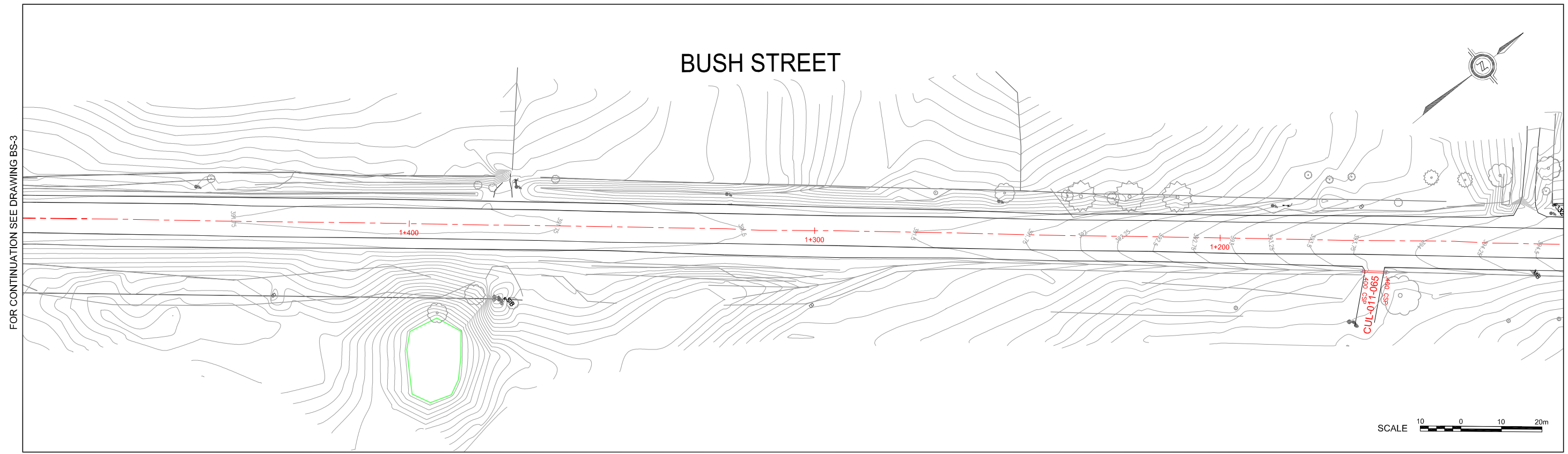
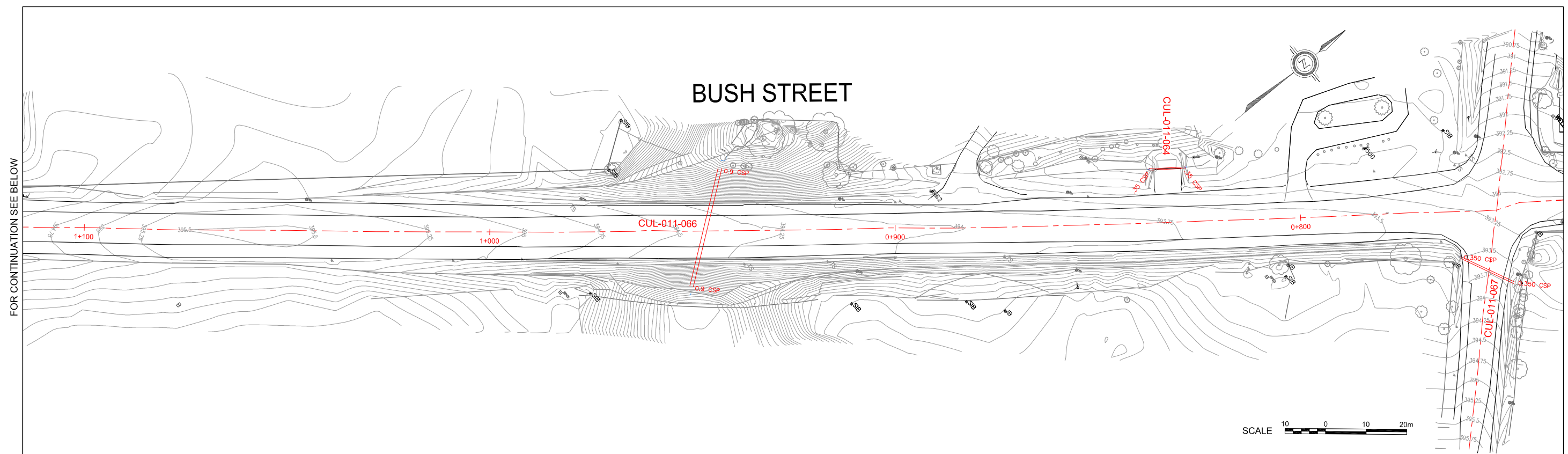


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drawn	SH
approved	PC / BF
date	MARCH, 2014
scale	AS SHOWN
original size	Tabloid



client:	HDR CORPORATION	
project:	GEOTECHNICAL INVESTIGATION REGIONAL ROAD CORRIDOR BOUNDED BY WINSTON CHURCHILL BLVD., BUSH ST., OLD MAIN ST., MISSISSAUGA RD., OLDE BASELINE RD. WELLINGTON, ONTARIO	
title:	CULVERT LOCATION PLAN	
project no:	GEOTETOB21649AA	drawing no: BS-1

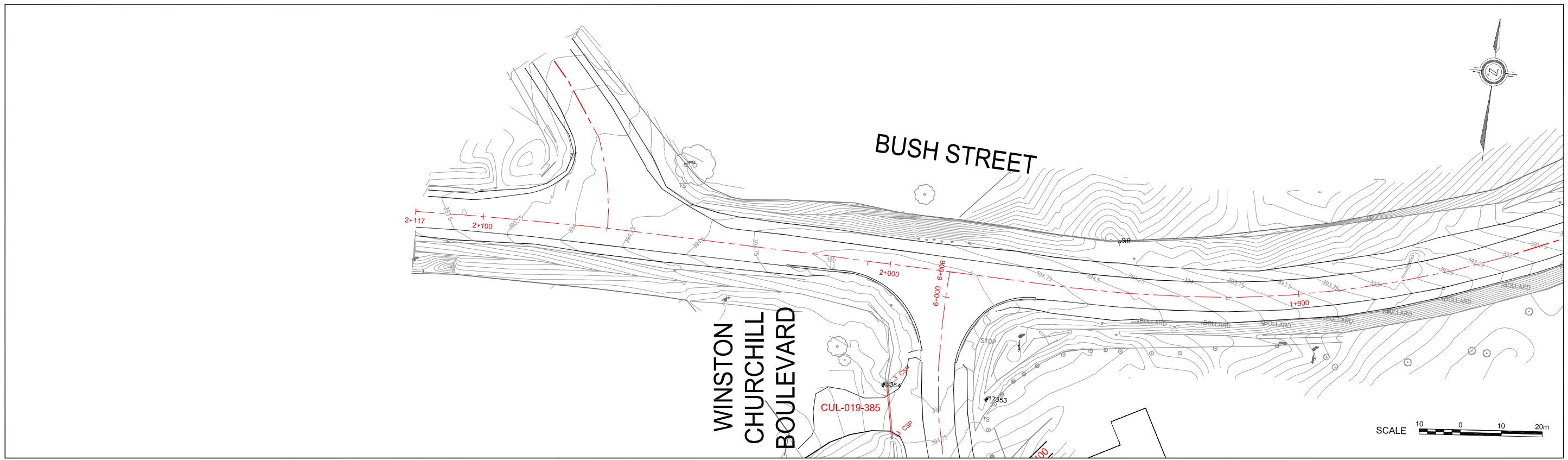
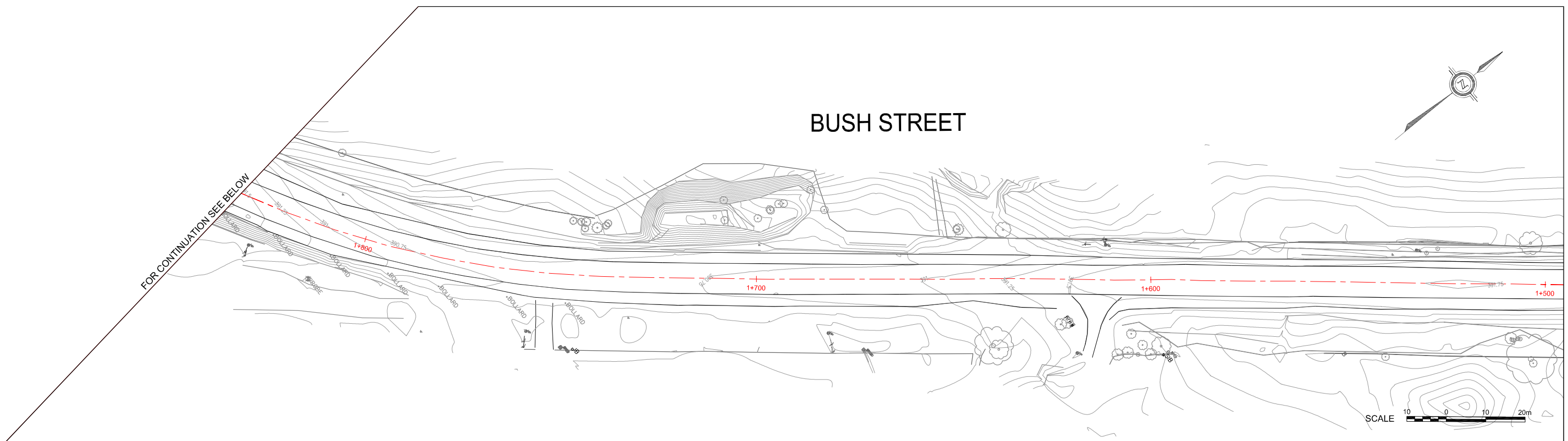


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drawn	SH
approved	PC / BF
date	MARCH, 2014
scale	AS SHOWN
original size	Tabloid



client:	HDR CORPORATION	
project:	GEOTECHNICAL INVESTIGATION REGIONAL ROAD CORRIDOR BOUNDED BY WINSTON CHURCHILL BLVD., BUSH ST., OLD MAIN ST., MISSISSAUGA RD., OLDE BASELINE RD. WELLINGTON, ONTARIO	
title:	CULVERT LOCATION PLAN	
project no:	GEOTETOB21649AA	drawing no: BS-2



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approved	PC / BF
date	MARCH, 2014
scale	AS SHOWN
original size	Tabloid



client:	HDR CORPORATION	
project:	GEOTECHNICAL INVESTIGATION REGIONAL ROAD CORRIDOR BOUNDED BY WINSTON CHURCHILL BLVD., BUSH ST., OLD MAIN ST., MISSISSAUGA RD., OLDE BASELINE RD. WELLINGTON, ONTARIO	
title:	CULVERT LOCATION PLAN	
project no:	GEOTETOB21649AA	drawing no: BS-3

Minor Culvert Listing With Inspection References- Region Of Peel

2013-04-12

Regional Road #- 019

Culvert ID*	Type	Stationing ¹	Picture No.s	Street Name	Location Reference	Intersection Reference	Loc_Traffic	Dia. (mm)	Material	Shap	Barrier	Length (m)	X_co-ord.*	Y-Co-ord.*	Insp_Date	Overall Condition	Remarks	Recommendations
CUL-019-336	CUL-EC	P1-P2		WINSTON CHURCHILL BLVD	16065	5TH SRD -- THE GRANGE SRD	NORTH BOUND	460	CS	R	N	8.90	580712.44	4845232.61	23-Sep-2011	F	Rusted and damaged	Needs to be repaired
CUL-019-338	CUL-EC	P3-P4		WINSTON CHURCHILL BLVD	5032	OLDE BASELINE RD -- 5TH SRD	SOUTH BOUND	350	CS	R	N	9.40	581595.60	4844322.33	23-Sep-2011	F	50% Blocked at south end, needs flushing	Needs flushing
CUL-019-339	CUL-EC	P5-P6		WINSTON CHURCHILL BLVD	5024	OLDE BASELINE RD -- 5TH SRD	SOUTH BOUND	400	CS	R	N	8.00	581692.51	4844223.26	23-Sep-2011	F	30% filled with accumulated debris	Needs flushing
CUL-019-340-1	CUL-FE	P7-P8		WINSTON CHURCHILL BLVD	OPPOSITE ENTRAQNC # 15547	OLDE BASELINE RD -- 5TH SRD	SOUTH BOUND	400	CS	R	N	9.40	581838.00	4844076.17	20-Sep-2011	F	20% filled with accumulated debris	May needs flushing
CUL-019-340-2	CUL-FE	P7-P8		WINSTON CHURCHILL BLVD	OPPOSITE ENTRAQNC # 15547	OLDE BASELINE RD -- 5TH SRD	SOUTH BOUND	Can't Measur	CS	R	N	9.40	581838.00	4844076.17	23-Sep-2011	P	Almost blocked/burried and damaged	To be replaced
CUL-019-341	CUL-EC	P9-P10		WINSTON CHURCHILL BLVD	HOUSE #5006	OLDE BASELINE RD -- 5TH SRD	SOUTH BOUND	460	CS	R	N	9.40	581893.19	4844016.45	20-Sep-2011	F-G	A bit rusted inside and damaged at south end	To be repaired
CUL-019-342	CUL-EC	P11-P12		WINSTON CHURCHILL BLVD	HOUSE #4996	OLDE BASELINE RD -- 5TH SRD	SOUTH BOUND	460	CS	R	N	9.30	581976.59	4843934.90	20-Sep-2011	F	Rusted, damaged at north end and 10-20% filled with accumulated debris	Repair, flushing
CUL-019-343	CUL-CC	P13-P14		WINSTON CHURCHILL BLVD	95 M NORTH OF 16245	5TH SRD -- THE GRANGE SRD	CENTRE	400	CS	R	N	12.70	580242.86	4845699.96	23-Sep-2011	F	Rusted, damaged at east end, 20% filled with accumulated debris at west end	Repair, flushing
CUL-019-344	CUL-CC	P15-P16		WINSTON CHURCHILL BLVD	118 M NORTH OF 16065 TO THE WEST SIDE OF OUTLAND END	5TH SRD -- THE GRANGE SRD	CENTRE	Looks 1000	CS	O	N	15.30	580631.74	4845305.19	23-Sep-2011	F	20% filled with accumulated debris	May needs flushing
CUL-019-345	CUL-CC	P17-P18		WINSTON CHURCHILL BLVD	J/O 5TH SRD	5TH SRD -- THE GRANGE SRD	CENTRE	600	P	R	N	13.60	580841.19	4845092.50	23-Sep-2011	G		Do nothing
CUL-019-346	CUL-CC	P19-P20		WINSTON CHURCHILL BLVD	286 M NORTH OF 5072	OLDE BASELINE RD -- 5TH SRD	CENTRE	400	CS	R	N	12.35	580974.61	4844956.58	23-Sep-2011	P	60% Blocked, rusted and damaged. Needs flushing	Repair, flushing
CUL-019-347	CUL-CC	P21-P22		WINSTON CHURCHILL BLVD	AT SOUTH ENTRAQNC OF 5072	OLDE BASELINE RD -- 5TH SRD	CENTRE	660	CS	R	N	11.00	581181.47	4844747.54	23-Sep-2011	F	30 - 40% filled with accumulated debris	Needs flushing
CUL-019-348	CUL-CC	P23-P24		WINSTON CHURCHILL BLVD	50 M NORTH OF 15739	OLDE BASELINE RD -- 5TH SRD	CENTRE	400	CS	R	N	12.80	581389.23	4844538.44	23-Sep-2011	F	Rusted , damaged at west end	West end needs to be repaired
CUL-019-349	CUL-CC	P25-P26		WINSTON CHURCHILL BLVD	125 M NORTH OF 15669	OLDE BASELINE RD -- 5TH SRD	CENTRE	350	CS	R	N	13.75	581557.04	4844371.75	23-Sep-2011	F-G	Rusted at west end, slight cracks found on asphalt wearing surface right above the culvert	West end needs to be repaired
CUL-019-350	CUL-CC	P27-P28		WINSTON CHURCHILL BLVD	7 M SOUTH OF 5024	OLDE BASELINE RD -- 5TH SRD	CENTRE	400	CS	R	N	12.10	581709.28	4844220.50	23-Sep-2011	P	50% filled with accumulated debris, damaged at east end	To be replaced
CUL-019-351	CUL-CC	P29-P30		WINSTON CHURCHILL BLVD	INLET ON EAST SIDE 8 M N OF 15547	OLDE BASELINE RD -- 5TH SRD	CENTRE	400	CS	R	N	12.20	581834.25	4844094.13	23-Sep-2011	F-P	50% filled with accumulated debris, west end is damaged and rusted	Repair, flushing
CUL-019-356	CUL-EC	P31-P32		WINSTON CHURCHILL BLVD	15819	OLDE BASELINE RD -- 5TH SRD	NORTH BOUND	400	CS	R	N	8.80	581252.94	4844685.68	23-Sep-2011	F	Rusted at both ends	Repair, Grading
CUL-019-357	CUL-EC	P33-P34		WINSTON CHURCHILL BLVD	16199	5TH SRD -- THE GRANGE SRD	NORTH BOUND	400	CS	R	N	8.90	580397.00	4845552.00	23-Sep-2011	F-G	30% filled with accumulated debris at south end	May needs flushing
CUL-019-358	CUL-EC	P35-P36		WINSTON CHURCHILL BLVD	16245	5TH SRD -- THE GRANGE SRD	NORTH BOUND	400	CS	R	N	15.20	580311.41	4845639.60	23-Sep-2011	F-G	A bit damaged at north end	North end needs to be fixed
CUL-019-359	CUL-EC	P37-P38		WINSTON CHURCHILL BLVD	16225	5TH SRD -- THE GRANGE SRD	NORTH BOUND	450	CS	R	N	12.30	580188.55	4845770.48	23-Sep-2011	G		Do nothing
CUL-019-361	CUL-EC	P39-P40		WINSTON CHURCHILL BLVD	57 M NORHT OF SIDE ROAD 5	5TH SRD -- THE GRANGE SRD	SOUTH BOUND	900	CS	R	N	10.00	580664.72	4845260.29	23-Sep-2011	F-G	Bottom is rusted	Repair
CUL-019-362	CUL-EC	P41-P42		WINSTON CHURCHILL BLVD	THE NORTH DRIVEWAY OF HOUSE #4986	OLDE BASELINE RD -- 5TH SRD	SOUTH BOUND	400	CS	R	N	6.40	582051.77	4843860.64	20-Sep-2011	P	75% Blocked/burried at north end. This culvert is side by side with 363	To be removed as the adjacent culvert is functioning well
CUL-019-363	CUL-EC	P43-P44		WINSTON CHURCHILL BLVD	NORTH DRIVEWAY OF HOUSE #4986	OLDE BASELINE RD -- 5TH SRD	SOUTH BOUND	460	CS	R	N	6.40	582051.77	4843860.64	20-Sep-2011	G	25% filled with accumulated debris	Needs Flushing
CUL-019-364	CUL-EC	P45-P46		WINSTON CHURCHILL BLVD	SOUTH DRIVEWAY OF HOUSE #4986	OLDE BASELINE RD -- 5TH SRD	SOUTH BOUND	460	CS	R	N	9.20	582079.39	4843832.52	20-Sep-2011	P	Rusted and almost burried at south end. North end is 50% blocked by accumulated debris. This culvert is bv side with 365	To be removed as the adjacent culvert is functioning well
CUL-019-365	CUL-EC	P47-P48		WINSTON CHURCHILL BLVD	SOUTH DRIVEWAY OF HOUSE #4986	OLDE BASELINE RD -- 5TH SRD	SOUTH BOUND	460	CS	R	N	9.10	582079.39	4843832.52	20-Sep-2011	F	50% filled with accumulated debris at south end, needs flushing	Needs flushing
CUL-019-366	CUL-EC	P49-P50		WINSTON CHURCHILL BLVD	HOUSE #4982	OLDE BASELINE RD -- 5TH SRD	SOUTH BOUND	460	CS	R	N	8.60	582108.43	4843804.84	20-Sep-2011	F	South end is damaged, needs repair	South end to be repaired
CUL-019-367	CUL-EC	P51-P52		WINSTON CHURCHILL BLVD	HOUSE #4982	OLDE BASELINE RD -- 5TH SRD	SOUTH BOUND	Can't Measur	CS	R	N	8.65	582108.43	4843804.84	20-Sep-2011	P	Completely burried at both ends, needs replacement	To be replaced
CUL-019-376	CUL-EC	P53-P54		WINSTON CHURCHILL BLVD	15565	OLDE BASELINE RD -- 5TH SRD	NORTH BOUND	400	CS	R	N	9.30	581801.92	4844135.09	23-Sep-2011	F	25% filled with accumulated debris and a bit rusted and damaged at south end	Repair, flushing

Minor Culvert Listing With Inspection References- Region Of Peel

2013-04-12

Regional Road #- 019

Culvert ID*	Type	Stationing ¹	Picture No.s	Street Name	Location Reference	Intersection Reference	Loc Traffic	Dia. (mm)	Material	Shap	Barrier	Length (m)	X co-ord.*	Y-Co-ord.*	Insp Date	Overall Condition	Remarks	Recommendations
CUL-019-377	CUL-EC			WINSTON CHURCHILL BLVD	15819	OLDE BASELINE RD -- 5TH SRD	NORTH BOUND	400	CS	R	N	8.90	581255.94	4844683.01	23-Sep-2011		COULD NOT LOCATE, LIKELY DOES NOT EXIS	
CUL-019-378	CUL-EC	P55-P56		WINSTON CHURCHILL BLVD	16847	THE GRANGE SRD -- 10TH SRD	NORTH BOUND	460	CS	R	N	10.60	579984.03	4845981.21	23-Sep-2011	G		Do nothing
CUL-019-379	CUL-FE	P57-P58		WINSTON CHURCHILL BLVD	2 M NORTH OF 5252	THE GRANGE SRD -- 10TH SRD	NORTH BOUND	450	CS	R	N	6.25	579224.00	4846734.00	23-Sep-2011	F-G	A bit rusted at south end and 10% filled with accumulated debris	Clean rust
CUL-019-380	CUL-EC	P59-P60		WINSTON CHURCHILL BLVD	17049	10TH SRD -- BUSH ST	NORTH BOUND	400	CS	R	N	13.30	578572.72	4847400.35	23-Sep-2011	F-G	Needs some grading on north end	Grading
CUL-019-381	CUL-EC	P61-P62		WINSTON CHURCHILL BLVD	17159	10TH SRD -- BUSH ST	NORTH BOUND	460	CS	R	N	9.30	578340.29	4847634.54	23-Sep-2011	F-G	25% filled with accumulated debris and a bit rusted at south end	May needs flushing
CUL-019-382	CUL-EC	P63-P64		WINSTON CHURCHILL BLVD	17177	10TH SRD -- BUSH ST	NORTH BOUND	460	CS	R	N	9.20	578302.00	4847671.57	23-Sep-2011	G		Do nothing
CUL-019-383	CUL-EC	P65-P66		WINSTON CHURCHILL BLVD	17197	10TH SRD -- BUSH ST	NORTH BOUND	460	CS	R	N	9.40	578257.67	4847716.62	23-Sep-2011	G		Do nothing
CUL-019-384	CUL-FE	P67-P68		WINSTON CHURCHILL BLVD	13M NORTH OF 17197	10TH SRD -- BUSH ST	NORTH BOUND	460	CS	R	N	6.50	578244.00	4847732.00	23-Sep-2011	G		Do nothing
CUL-019-385	CUL-EC	P69-P70		WINSTON CHURCHILL BLVD	5364	10TH SRD -- BUSH ST	SOUTH BOUND	Can't Measur	CS	R	N	12.60	577963.33	4848019.76	23-Sep-2011	P	80% Blocked/burried, damaged at north end	Repair, flushing
CUL-019-386	CUL-EC	P71-P72		WINSTON CHURCHILL BLVD	5348	10TH SRD -- BUSH ST	SOUTH BOUND	900	CS	R	N	9.60	578088.53	4847862.48	23-Sep-2011	F	50% filled with accumulated debris at north end, need some flushing	Needs flushing
CUL-019-387	CUL-EC	P73-P74		WINSTON CHURCHILL BLVD	5262	THE GRANGE SRD -- 10TH SRD	SOUTH BOUND	400	CS	R	N	6.30	579079.00	4846885.00	23-Sep-2011	F	Rusted and a bit damaged at south end	South end needs to be repaired
CUL-019-388	CUL-EC	P75-P76		WINSTON CHURCHILL BLVD	5252	THE GRANGE SRD -- 10TH SRD	CENTRE	400	CS	R	N	16.00 (App.)	579217.33	4846724.90	23-Sep-2011	P	East end rusted with 60% filled with accumulated debris. West end is not accessible	Repair, flushing
CUL-019-389	CUL-EC	P77-P78		WINSTON CHURCHILL BLVD	5192	THE GRANGE SRD -- 10TH SRD	SOUTH BOUND	400	CS	R	N	18.40	579635.63	4846296.96	23-Sep-2011	G		Do nothing
CUL-019-390	CUL-CC			WINSTON CHURCHILL BLVD		10TH SRD -- BUSH ST	CENTRE	900	CS	R	N	23.00	578046.66	4847917.84	23-Sep-2011	G	COULD NOT LOCATE	
CUL-019-391	CUL-CC	P79-P80		WINSTON CHURCHILL BLVD	22 M SOUTH OF 17049	10TH SRD -- BUSH ST	CENTRE	900	CS	R	N	15.00	578589.14	4847369.10	23-Sep-2011	G		Do nothing
CUL-019-392	CUL-CC	P81-P82		WINSTON CHURCHILL BLVD	17 M SOUTH OF SIDEROAD 10	THE GRANGE SRD -- 10TH SRD	CENTRE	550	CS	R	N	14.90	578668.87	4847267.84	23-Sep-2011	F	25% filled with accumulated debris and rusted. Access to east end with difficulty	Repair, flushing
CUL-019-393	CUL-CC	P83-P84		WINSTON CHURCHILL BLVD	29 M NORTH OF 5274	THE GRANGE SRD -- 10TH SRD	CENTRE	460	CS	R	N	18.20	578924.60	4847034.70	23-Sep-2011	F-G	Rusted, damaged at west end	West end needs to be repaired
CUL-019-394	CUL-CC	P85-P86		WINSTON CHURCHILL BLVD	10 M SOUTH OF 5258	THE GRANGE SRD -- 10TH SRD	CENTRE	460	CS	R	N	22.20	579142.55	4846816.77	23-Sep-2011	F-P	Rusted and damaged at both ends	To be replaced
CUL-019-397	CUL-CC	P89-P90		WINSTON CHURCHILL BLVD	5 M NORTH OF THE GRANGE SIDE RD	THE GRANGE SRD -- 10TH SRD	CENTRE	400	CS	R	N	15.50	579970.15	4845977.14	23-Sep-2011	F-P	Rusted, damaged and 50% filled with accumulated debris at east end, west end is fine	East end needs to be repaired and flushing
CUL-019-398	CUL-EC	P91-P92		WINSTON CHURCHILL BLVD	16927	THE GRANGE SRD -- 10TH SRD	NORTH BOUND	460	CS	R	N	8.50	578883.49	4847087.55	23-Sep-2011	F-G	Rusted inside	Repair
CUL-019-399	CUL-FE	P93-P94		WINSTON CHURCHILL BLVD	140 M NORTH OF 16927	THE GRANGE SRD -- 10TH SRD	NORTH BOUND	460	CS	R	N	6.30	578780.51	4847190.53	23-Sep-2011	P	Rusted and badly damaged at north end	To be replaced
CUL-019-400	CUL-EC	P95-P96		WINSTON CHURCHILL BLVD	17353	10TH SRD -- BUSH ST	NORTH BOUND	400	CS	R	N	10.00	577990.85	4848003.06	23-Sep-2011	G	Does not exist, visually appears that owner may have burried it	
CUL-019-401	CUL-EC	P97-P98		WINSTON CHURCHILL BLVD	65 M NORTH OF 5342	10TH SRD -- BUSH ST	SOUTH BOUND	900	CS	R	N	5.90	578149.20	4847799.15	23-Sep-2011	F	Damaged at north end	To be repaired
CUL-019-402	CUL-EC	P99-P100		WINSTON CHURCHILL BLVD	5342	10TH SRD -- BUSH ST	SOUTH BOUND	600	CS	R	N	7.00	578215.35	4847735.83	23-Sep-2011	G		Do nothing
CUL-019-403	CUL-EC	P101-P102		WINSTON CHURCHILL BLVD	5274	THE GRANGE SRD -- 10TH SRD	SOUTH BOUND	460	CS	R	N	6.50	578940.40	4847005.55	23-Sep-2011	F		Do nothing
CUL-019-404	CUL-FE	P103-P104		WINSTON CHURCHILL BLVD	45 M NORTH OF 5262	THE GRANGE SRD -- 10TH SRD	SOUTH BOUND	400	CS	R	N	6.20	579051.25	4846894.25	23-Sep-2011	F	A bit rusted with 10% filled with accumulated debris	May need flushing
CUL-019-405	CUL-EC	P105-P106		WINSTON CHURCHILL BLVD	5184	THE GRANGE SRD -- 10TH SRD	SOUTH BOUND	400	CS	R	N	10.20	579824.32	4846107.41	23-Sep-2011	P	Badly damaged and rusted at north end	To be replaced
CUL-019-474	CUL-EC	P107-P108		WINSTON CHURCHILL BLVD	15669	OLDE BASELINE RD -- 5TH SRD	NORTH BOUND	400	CS	R	N	10.60	581580.30	4844358.34	23-Sep-2011	P-F	50% filled with accumulated debris, rusted and damaged. Needs flushing	Repair, flushing

Minor Culvert Listina With Inspection References- Reaion Of Peel

2013-04-12

Regional Road #- 019

<u>Culvert ID*</u>	<u>Type</u>	<u>Stationing¹</u>	<u>Picture No.s</u>	<u>Street Name</u>	<u>Location Reference</u>	<u>Intersection Reference</u>	<u>Loc Traffic</u>	<u>Dia. (mm)</u>	<u>Material</u>	<u>Shap</u>	<u>Barrier</u>	<u>Length (m)</u>	<u>X co-ord.*</u>	<u>Y-Co-ord.*</u>	<u>Insp Date</u>	<u>Overall Condition</u>	<u>Remarks</u>	<u>Recommendations</u>
CUL-019-492	CUL-FE		P109-P110	WINSTON CHURCHILL BLVD	OPPOSITE TO 16245	5TH SRD -- THE GRANGE SRD	SOUTH BOUND	400	CS	R		8.10	580190.39	4845742.98	23-Sep-2011	G	10% filled with accumulated debris	May needs some flushing
CUL-019-505	CUL-EC		P111-P112	WINSTON CHURCHILL BLVD	5072	OLDE BASELINE RD -- 5TH SRD	SOUTH BOUND	400	P	R		12.20	581173.08	4844745.36	20-Sep-2011	G		Do nothing
CUL-019-506	CUL-EC		P113-P114	WINSTON CHURCHILL BLVD	5134	5TH SRD -- THE GRANGE SRD	SOUTH BOUND	600	CS	R		9.10	580468.47	4845460.23	23-Sep-2011	F-G	30% filled with accumulated debris and damaged at both ends	Repair, flushing
CUL-019-507	CUL-EC		P115-P116	WINSTON CHURCHILL BLVD	5160	5TH SRD -- THE GRANGE SRD	SOUTH BOUND	400	P	R		13.70	580262.46	4845667.83	23-Sep-2011	G		Do nothing
CUL-019-508	CUL-EC		P117-P118	WINSTON CHURCHILL BLVD	5268	THE GRANGE SRD -- 10TH SRD	SOUTH BOUND	460	CS	R		6.20	579006.02	4846942.67	23-Sep-2011	F	Rusted and damaged at both ends	To be repaired
Additional Culvert#1		0+000	P119-P120	WINSTON CHURCHILL BLVD	J/O Olde Baseline Road	OLDE BASELINE RD -- 5TH SRD	Centre	250	CS	R	N	13.65				F	Damaged at east end and 10% filled with accumulated debris	East end needs to repaired
Additional Culvert#2		0+000	P121-P122	WINSTON CHURCHILL BLVD	J/O Olde Baseline Road	OLDE BASELINE RD -- 5TH SRD	Centre	250	CS	R	N	13.65				F	Damaged at west end and 10% filled with accumulated debris	West end needs to repaired
Additional Culvert#3		4+170	P123-P124	WINSTON CHURCHILL BLVD	5252	THE GRANGE SRD -- 10TH SRD	SOUTH BOUND	400	CS	R	N	9.5				F-G	Rusted, 20% filled with accumulated debris at South end, North end is not accessible	Needs flushing
Additional Culvert#4		4+420	P125-P126	WINSTON CHURCHILL BLVD	45 M North of 5262	THE GRANGE SRD -- 10TH SRD	NORTHBOUND	380	P	R	N	9.2				G		Do nothing
Additional Culvert#5		2+450	P127-P128	WINSTON CHURCHILL BLVD	5138	5TH SRD -- THE GRANGE SRD	SOUTH BOUND	600	CS	R	N	9.1				G		Do nothing

*Prived by the Region of peel

¹ Stationing is only for Additional Culverts (from OBL 0+000 to Bush Street 6+000)



Photo P1 – CUL-019-336



Photo P2 – CUL-019-336



Photo P3 – CUL-019-338



Photo P4 – CUL-019-338



Photo P5 – CUL-019-339



Photo P6 – CUL-019-339



Photo P7 – CUL-019-340-1



Photo P8 – CUL-019-340-1



Photo P7 – CUL-019-340-2



Photo P8 – CUL-019-340-2



Photo P9 – CUL-019-341



Photo P10 – CUL-019-341



Photo P11 – CUL-019-342



Photo P12 – CUL-019-342



Photo P13 – CUL-019-343



Photo P14 – CUL-019-343



Photo P15 – CUL-019-344



Photo P16 – CUL-019-344



Photo P17 – CUL-019-345



Photo P18 – CUL-019-345



Photo P19 – CUL-019-346



Photo P20 – CUL-019-346



Photo P21 – CUL-019-347



Photo P22 – CUL-019-347



Photo P23 – CUL-019-348



Photo P24 – CUL-019-348



Photo P25 – CUL-019-349



Photo P26 – CUL-019-349



Photo P27 – CUL-019-350



Photo P28 – CUL-019-350



Photo P29 – CUL-019-351



Photo P30 – CUL-019-351



Photo P31 – CUL-019-356



Photo P32 – CUL-019-356



Photo P33 – CUL-019-357



Photo P34 – CUL-019-357



Photo P35 – CUL-019-358



Photo P36 – CUL-019-358



Photo P37 – CUL-019-359



Photo P38 – CUL-019-359



Photo P39 – CUL-019-361



Photo P40 – CUL-019-361



Photo P41 – CUL-019-362



Photo P42 – CUL-019-362



Photo P43 – CUL-019-363



Photo P44 – CUL-019-363



Photo P45 – CUL-019-364



Photo P46 – CUL-019-364



Photo P47 – CUL-019-365



Photo P48 – CUL-019-365



Photo P49 – CUL-019-366



Photo P50 – CUL-019-366



Photo P51 – CUL-019-367



Photo P52 – CUL-019-367



Photo P53 – CUL-019-376



Photo P54 – CUL-019-376



Photo P55 – CUL-019-378



Photo P56 – CUL-019-378



Photo P57 – CUL-019-379



Photo P58 – CUL-019-379



Photo P59 – CUL-019-380



Photo P60 – CUL-019-380



Photo P61 – CUL-019-381



Photo P62 – CUL-019-381



Photo P63 – CUL-019-382



Photo P64 – CUL-019-382



Photo P65 – CUL-019-383



Photo P66 – CUL-019-383



Photo P67 – CUL-019-384



Photo P68 – CUL-019-384



Photo P69 – CUL-019-385



Photo P70 – CUL-019-385



Photo P71 – CUL-019-386



Photo P72 – CUL-019-386



Photo P73 – CUL-019-387



Photo P74 – CUL-019-387



Photo P75 – CUL-019-388



Photo P76 – CUL-019-388



Photo P77 – CUL-019-389



Photo P78 – CUL-019-389



Photo P79 – CUL-019-391



Photo P80 – CUL-019-391



Photo P81 – CUL-019-392



Photo P82 – CUL-019-392



Photo P83 – CUL-019-393

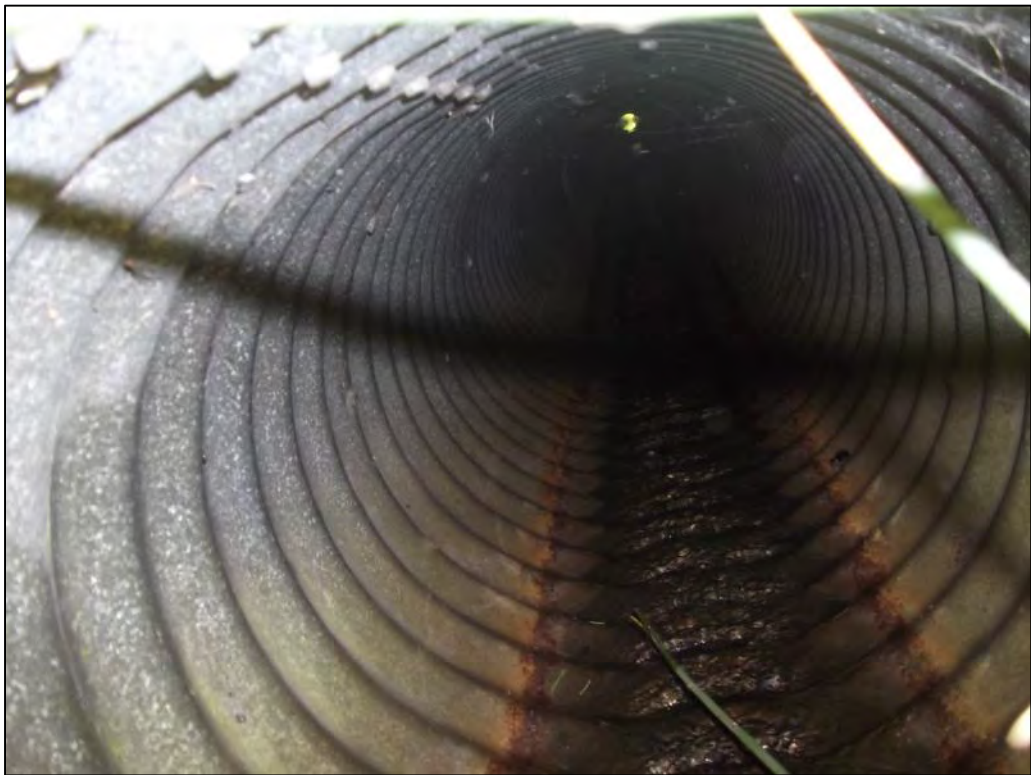


Photo P84 – CUL-019-393



Photo P85 – CUL-019-394



Photo P86 – CUL-019-394



Photo P87 – CUL-019-396



Photo P88 – CUL-019-396



Photo P89 – CUL-019-397



Photo P90 – CUL-019-397



Photo P91 – CUL-019-398



Photo P92 – CUL-019-398



Photo P93 – CUL-019-399



Photo P94 – CUL-019-399



Photo P95 – CUL-019-400



Photo P96 – CUL-019-400



Photo P97 – CUL-019-401



Photo P98 – CUL-019-401



Photo P99 – CUL-019-402



Photo P100 – CUL-019-402



Photo P101 – CUL-019-403



Photo P102 – CUL-019-403



Photo P103 – CUL-019-404



Photo P104 – CUL-019-404



Photo P105 – CUL-019-405



Photo P106 – CUL-019-405



Photo P107 – CUL-019-474



Photo P108 – CUL-019-474



Photo P109 – CUL-019-492



Photo P110 – CUL-019-492



Photo P111 – CUL-019-505



Photo P112 – CUL-019-505



Photo P113 – CUL-019-506



Photo P114 – CUL-019-506



Photo P115 – CUL-019-507



Photo P116 – CUL-019-507



Photo P117 – CUL-019-508



Photo P118 – CUL-019-508



Photo P119 – Additional Culvert#1



Photo P120 – Additional Culvert#1



Photo P121 – Additional Culvert#2



Photo P122 – Additional Culvert#2



Photo P123 – Additional Culvert#3



Photo P124 – Additional Culvert#3



Photo P125 – Additional Culvert#4



Photo P126 – Additional Culvert#4



Photo P127 – Additional Culvert#5



Photo P128 – Additional Culvert#5

Minor Culvert Listing With Inspection References- Region Of Peel
2013-06-13

Regional Road #- 012

<u>Culvert ID*</u>	<u>Type</u>	<u>Picture No.</u>	<u>Street Name</u>	<u>Location Reference</u>	<u>Intersection Reference</u>	<u>Loc Traffic</u>	<u>Dia. (mm)</u>	<u>Material</u>	<u>Shap</u>	<u>Barrier</u>	<u>Length (m)</u>	<u>X co-ord.*</u>	<u>Y-Co-ord.*</u>	<u>Insp Date</u>	<u>Overall Condition</u>	<u>Remarks</u>	<u>Recommendations</u>
CUL-012-140	CUL-CC	P1-P2	OLDE BASE LINE RD	Just east of H.No. 262	SHAWS CREEK RD -- WINSTON CHURCHILL BLVD	CENTRE	600	CS	R	N	14.30	582493.59	4844189.76	13-Jun-2013	G		Do nothing
CUL-012-141	CUL-CC	P3-P4	OLDE BASE LINE RD	Just west of 239-249	SHAWS CREEK RD -- WINSTON CHURCHILL BLVD	CENTRE	600	CS	R	N	15.90	582598.78	4844327.27	13-Jun-2013	G		Do nothing
CUL-012-142	CUL-CC	P5-P6	OLDE BASE LINE RD		ROCKSIDE RD -- SHAWS CREEK RD	CENTRE	450	P	R	N	20.50	582963.21	4844798.50	13-Jun-2013	G		Do nothing
CUL-012-143	CUL-CC	P7-P8	OLDE BASE LINE RD		ROCKSIDE RD -- SHAWS CREEK RD	CENTRE	450	P	R	N	12.00	582999.00	4844843.49	13-Jun-2013	G		Do nothing
CUL-012-144	CUL-CC	P9-P10	OLDE BASE LINE RD		AT J/O ROCKSIDE RD	CENTRE	3050*1400	PRCONC	B	N	26.60	583024.45	4844876.27	13-Jun-2013	G		Do nothing
CUL-012-145	CUL-EC	P11-P12	OLDE BASE LINE RD	551	MISSISSAUGA RD -- ROCKSIDE RD	EAST BOUND	400	CS	R	N	10.85	583146.00	4845016.00	13-Jun-2013	F	50% filled with accumulated debris, needs flushing and grading	Flushing and grading
CUL-012-146	CUL-CC	P13-P14	OLDE BASE LINE RD	65M WEST OF 800	MISSISSAUGA RD -- ROCKSIDE RD	Centre	400	CS	R	N	10.50	583438.00	4845397.00	13-Jun-2013	P	Completely blocked by accumulated debris on both ends	Flushing and grading
CUL-012-147	CUL-CC	P15-P16	OLDE BASE LINE RD	50M EAST OF 800	MISSISSAUGA RD -- ROCKSIDE RD	Centre	400	CS	R	N	12.35	583537.00	4845514.00	13-Jun-2013	P- F	20% filled with accumulated debris, Damaged at North end	North end to be repaired
CUL-012-148	CUL-CC	P17-P18	OLDE BASE LINE RD		MISSISSAUGA RD -- ROCKSIDE RD	CENTRE	400	CS	R	N	12.30	583600.00	4845610.00	13-Jun-2013	P- F	10% filled with accumulated debris, little rusting and damaged at south end	Needs to be repaired
CUL-012-149	CUL-EC	P19-P20	OLDE BASE LINE RD	434	SHAWS CREEK RD -- WINSTON CHURCHILL BLVD	WEST BOUND	350	CS	R	N	6.20	582820.11	4844625.64	13-Jun-2013	P	Rusted, damaged and almost burried at west end	To be replaced
CUL-012-150	CUL-CC	P21-P22	OLDE BASE LINE RD	Just east of 338-340	SHAWS CREEK RD -- WINSTON CHURCHILL BLVD	CENTRE	3300*1200	PRCONC	B	N	23.10	582727.37	4844496.67	13-Jun-2013	G		Do nothing
CUL-012-151	CUL-EC	P23-P24	OLDE BASE LINE RD	338-340	SHAWS CREEK RD -- WINSTON CHURCHILL BLVD	WEST BOUND	400	CS	R	N	9.50	582716.52	4844492.36	13-Jun-2013	P-F	Rusted, damaged, 40% filled with accumulated debris, needs some grading and flushing	Needs to be repaired, flushing and grading
CUL-012-152	CUL-CC	P25-P26	OLDE BASE LINE RD	JUST WEST OF SHAWS CREEK INTERSECTION	SHAWS CREEK RD -- WINSTON CHURCHILL BLVD	CENTRE	450	CS	R		12.50	582943.50	4844773.29	13-Jun-2013	F	20% filled with accumulated debris on both ends, Rusted and damaged on south end	South end needs repair, flushing and grading

*Prived by the Region of peel

Total Length (m):- 190.70



Photo P1 – CUL-012-140



Photo P2 – CUL-012-140



Photo P3 – CUL-012-141



Photo P4 – CUL-012-141



Photo P5 – CUL-012-142



Photo P6 – CUL-012-142



Photo P7 – CUL-012-143



Photo P8 – CUL-012-143



Photo P9 – CUL-012-144



Photo P10 – CUL-012-144



Photo P11 – CUL-012-145



Photo P12 – CUL-012-145



Photo P13 – CUL-012-146



Photo P14 – CUL-012-146



Photo P15 – CUL-012-147



Photo P16 – CUL-012-147



Photo P17 – CUL-012-148



Photo P18 – CUL-012-148



Photo P19 – CUL-012-149



Photo P20 – CUL-012-149



Photo P21 – CUL-012-150



Photo P22 – CUL-012-150



Photo P23 – CUL-012-151



Photo P24 – CUL-012-151



Photo P25 – CUL-012-152



Photo P26 – CUL-012-152

Minor Culvert Listing With Inspection References- Region Of Peel

2013-06-14

Regional Road #- 001

Culvert ID*	Type	Stationing ¹	Picture No.	Street Name	Location Reference	Intersection Reference	Loc. Traffic	Dia. (mm)	Material	Shap	Barrier	Length (m)	X co-ord.*	Y-Co-ord.*	Insp. Date	Overall Condition	Remarks	Recommendations
CUL-001-269	CUL-EC		P1-P2	MISSISSAUGA RD	HOUSE #15977	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	NORTH BOUND	400	CS	R	N	11.90	582641.17	4847056.87	14-Jun-2013	P	60% filled with accumulated debris, Rusted and Damaged,	Needs to be replaced and regraded.
CUL-001-270	CUL-EC		P3-P4	MISSISSAUGA RD	HOUSE #16117	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	NORTH BOUND	460	CS	R	N	9.30	582297.81	4847399.79	14-Jun-2013	F-G	South end needs flushing and grading	Flushing and grading
CUL-001-275	CUL-EC		P5-P6	MISSISSAUGA RD	HOUSE #16110	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	SOUTH BOUND	600	CS	R	N	6.10	582314.55	4847362.53	14-Jun-2013	G		Do nothing
CUL-001-276	CUL-EC		P7-P8	MISSISSAUGA RD	HOUSE #16106	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	SOUTH BOUND	600	P	R	N	9.20	582353.56	4847324.19	14-Jun-2013	G		Do nothing
CUL-001-283	CUL-CC		P9-P10	MISSISSAUGA RD	17 METERS NORTH OF HOUSE #16065	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	CENTRE	800	CS	R	N	12.40	582407.11	4847280.07	14-Jun-2013	G	Pressed on West end (Oval Shape)	West end needs to be repaired
CUL-001-284	CUL-CC		P11-P12	MISSISSAUGA RD	99 METERS NORTH OF HOUSE #16014	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	CENTRE	1000	CS	R	N	13.50	582460.67	4847226.83	14-Jun-2013	F-G	30% filled with accumulated debris, Damaged on West end	Flushing
CUL-001-285	CUL-CC		P13-P14	MISSISSAUGA RD	100 METERS NORTH OF HOUSE #16014	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	CENTRE	1000	CS	R	N	13.50	582457.02	4847230.42	14-Jun-2013	G	20% filled with accumulated debris	May need some flushing
CUL-001-286	CUL-CC		P15-P16	MISSISSAUGA RD	67 METERS NORTH OF HOUSE #15915	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	CENTRE	400	CS	R	N	12.50	582724.42	4846962.38	14-Jun-2013	P	Damaged and Rusted on both ends	Needs to be replaced and regraded.
CUL-001-288	CUL-FE		P17-P18	MISSISSAUGA RD	ACROSS FROM ENTRANCE #16106	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	NORTH BOUND	500	CS	R	N	8.60	582363.08	4847333.26	14-Jun-2013	P-F	South end is completely blocked / burried	Flushing
CUL-001-295	CUL-EC		P19-P20	MISSISSAUGA RD	HOUSE #15938	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	SOUTH BOUND	250	CS	R	N	6.15	582696.15	4846980.00	14-Jun-2013	F	More than 50% filled with accumulated debris	Flushing and grading
CUL-001-301	CUL-FE		P21-P22	MISSISSAUGA RD	120 METERS NORTH OF HOUSE #16117	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	SOUTH BOUND	600	CS	O	N	6.20	582200.98	4847474.85	14-Jun-2013	F	Rusted, Damaged on South end, Pressed with Oval shape	Needs to be repaired
Additional Culvert#1		4+170	P23-P24	MISSISSAUGA RD	HOUSE # 16760	THE GRANGE SRD & BUSH STREET	SOUTH BOUND	400	P	R	N	9.10			14-Jun-2013	G		Do Nothing
Additional Culvert#2		4+650	P25-P26	MISSISSAUGA RD	150m south of Woodland Court	THE GRANGE SRD & BUSH STREET	SOUTH BOUND	400	CS	R	N	8.90			14-Jun-2013	F	South end damaged	Needs to be repaired
Additional Culvert#3		4+700	P27-P28	MISSISSAUGA RD	J/O Woodland Courte & Mississauga Rd.	THE GRANGE SRD & BUSH STREET	NORTH BOUND	400	CS	R	N	20.90			14-Jun-2013	F-P	Damaged and rusted	Needs to be repaired
Additional Culvert#4		4+900	P29-P30	MISSISSAUGA RD	HOUSE # 17025	THE GRANGE SRD & BUSH STREET	NORTH BOUND	400	CS	R	N	15.70			14-Jun-2013	G		Do Nothing
Additional Culvert#5		4+855	P31-P32	MISSISSAUGA RD	50m South of HOUSE # 17025	THE GRANGE SRD & BUSH STREET	NORTH BOUND	400	CS	R	N	6.20			14-Jun-2013	F-P	Damaged at ends	Needs to be repaired, flushing and grading
Additional Culvert#6		2+755	P33-P34	MISSISSAUGA RD	HOUSE # 16311	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	NORTH BOUND	460/550	CS/P	R	N	19.25			14-Jun-2013	G	CS at north end, Plastic at south end with different diameter	Do Nothing
Additional Culvert#7		3+025	P35-P36	MISSISSAUGA RD	J/O Mississauga Rd. & The Grange SRD	JUNCTION OF MISSISSAUGA RD. &THE GRANGE SRD	NORTH BOUND	400	CS	R	N	20.20			14-Jun-2013	P	Damaged and rusted	Needs flushing and grading
Additional Culvert#8		3+025	P37-P38	MISSISSAUGA RD	J/O Mississauga Rd. & The Grange SRD	JUNCTION OF MISSISSAUGA RD. &THE GRANGE SRD	SOUTH BOUND	600	P	R	N	16.35			14-Jun-2013	G		Do Nothing
Additional Culvert#9		3+075	P39-P40	MISSISSAUGA RD	HOUSE # 16416	THE GRANGE SRD & BUSH STREET	SOUTH BOUND	400	CS	R	N	6.70			14-Jun-2013	F		Do Nothing
Additional Culvert#10		3+140	P41-P42	MISSISSAUGA RD	HOUSE # 16437	THE GRANGE SRD & BUSH STREET	NORTH BOUND	400	CS	R	N	8.70			14-Jun-2013	F-P	50% filled with accumulated debris	Needs flushing and grading
Additional Culvert#11		3+900	P43-P44	MISSISSAUGA RD	HOUSE # 16671	THE GRANGE SRD & BUSH STREET	NORTH BOUND	CANT SEE	CS	R	N	9.10			14-Jun-2013	P	Rusted, Damaged almost burried	Needs to be replaced
Additional Culvert#12		4+020	P45-P46	MISSISSAUGA RD	HOUSE # 16703	THE GRANGE SRD & BUSH STREET	NORTH BOUND	400	CS	R	N	9.40			14-Jun-2013	F	A little damage	Needs to be repaired
Additional Culvert#13		4+065	P47-P48	MISSISSAUGA RD	HOUSE # 16735	THE GRANGE SRD & BUSH STREET	NORTH BOUND	400	CS	R	N	7.60			14-Jun-2013	V.P	Badly damaged and rusted	Needs to be replaced
Additional Culvert#14		0+165	P49-P50	MISSISSAUGA RD	HOUSE # 15457	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	NORTHBOUND	400	CS	R	N	12.80			14-Jun-2013	F	South end completely blocked/burried, can't be seen	Needs flushing and grading
Additional Culvert#15		0+475	P51-P52	MISSISSAUGA RD	Just west of HOUSE # 15601	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	SOUTH BOUND	CANT MEASURE	CS	R	N	9.50			14-Jun-2013	P	Almost burried/blocked, south end can't be seen	Needs flushing and grading
Additional Culvert#16		0+713	P53-P54	MISSISSAUGA RD	50m north of HOUSE # 15663	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	CENTRE	400	CS	R	N	11.40			14-Jun-2013	P	50% filled with accumulated debris, rusted and damaged	Needs to be repaired, flushing and grading
Additional Culvert#17		0+818	P55-P56	MISSISSAUGA RD	150m north of HOUSE # 15663	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	CENTRE	300	CS	R	N	11.80			14-Jun-2013	F-G	20% filled with accumulated debris	Might needs some flushing
Additional Culvert#18		1+025	P57-P58	MISSISSAUGA RD	HOUSE # 15775	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	NORTHBOUND	300	CS	R	N	7.40			14-Jun-2013	F	Rusted, Damaged on South end,	Needs to be repaired
Additional Culvert#19		1+025	P59-P60	MISSISSAUGA RD	HOUSE # 15774	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	SOUTH BOUND	400	CS	R	N	6.20			14-Jun-2013	F-G	Damaged on north end, Pressed with Oval shape	Needs to be repaired
Additional Culvert#20		1+050	P61-P62	MISSISSAUGA RD	South Driveway of HOUSE # 15790	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	SOUTH BOUND	400	CS	R	N	5.80			14-Jun-2013	F	40% filled with accumulated debris,Damaged on north end	Flushing, North end needs to be repaired
Additional Culvert#21		1+075	P63-P64	MISSISSAUGA RD	North Driveway of HOUSE # 15790	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	SOUTH BOUND	300	CS	R	N	6.20			14-Jun-2013	P	Damaged, completely burried on South end	Needs to be replaced
Additional Culvert#22		1+100	P65-P66	MISSISSAUGA RD	HOUSE # 15797 & 15801	OLD BASE LINE RD(REG. RD. # 12) -- THE GRANGE SRD	NORTHBOUND	400	CS	R	N	18.50			14-Jun-2013	F	Rusted, Damaged on both end	Needs to be repaired
Additional Culvert#23		5+635	P67-P68	MISSISSAUGA RD	60M SOUTH OF HOUSE # 17153	THE GRANGE SRD & BUSH STREET	CENTRE	400	CS	R	N	19.20			14-Jun-2013	F-G	50% filled with accumulated debris on east end	Needs flushing
Additional Culvert#24		5+635	P69-P70	MISSISSAUGA RD	60M SOUTH OF HOUSE # 17153	THE GRANGE SRD & BUSH STREET	SOUTH BOUND	300	CS	R	N	8.00			14-Jun-2013	F	South end looks fair, north end is burried	Needs repair on north end
Additional Culvert#25		6+100	P71-P72	MISSISSAUGA RD	HOUSE # 17266	THE GRANGE SRD & BUSH STREET	SOUTH BOUND	375	P	R	N	6.20			14-Jun-2013	G		Do Nothing
Additional Culvert#26		6+070	P73-P74	MISSISSAUGA RD	OPPOSITE HOUSE # 17257	THE GRANGE SRD & BUSH STREET	SOUTH BOUND	400	CS	R	N	9.60			14-Jun-2013	G	20% filled with accumulated debris on south end	Might needs some flushing
Additional Culvert#27		6+060	P75-P76	MISSISSAUGA RD	JUST SOUTH OF HOUSE # 17257	THE GRANGE SRD & BUSH STREET	CENTRE	600	CS	R	N	18.00			14-Jun-2013	F-G	Rusted, Damaged on east end	East end needs to be repaired

*Prived by the Region of peel

¹ Stationing is only for Additional Culverts (from OBL 0+000 to Bush St. 6+100)



Photo P1 – CUL-001-269



Photo P2 – CUL-001-269



Photo P3 – CUL-001-270



Photo P4 – CUL-001-270



Photo P5 – CUL-001-275



Photo P6 – CUL-001-275



Photo P7 – CUL-001-276



Photo P8 – CUL-001-276



Photo P9 – CUL-001-283



Photo P10 – CUL-001-283



Photo P11 – CUL-001-284



Photo P12 – CUL-001-284



Photo P13 – CUL-001-285



Photo P14 – CUL-001-285



Photo P15 – CUL-001-286



Photo P16 – CUL-001-286



Photo P17 – CUL-001-288



Photo P18 – CUL-001-288



Photo P19 – CUL-001-295



Photo P20 – CUL-001-295



Photo P21 – CUL-001-301



Photo P22 – CUL-001-301



Photo P23 – Additional Culvert#1



Photo P24 – Additional Culvert#1



Photo P25 – Additional Culvert#2



Photo P26 – Additional Culvert#2



Photo P27 – Additional Culvert#3



Photo P28 – Additional Culvert#3



Photo P29 – Additional Culvert#4



Photo P30 – Additional Culvert#4



Photo P31 – Additional Culvert#5



Photo P32 – Additional Culvert#5



Photo P33 – Additional Culvert#6



Photo P34 – Additional Culvert#6



Photo P35 – Additional Culvert#7



Photo P36 – Additional Culvert#7



Photo P37 – Additional Culvert#8



Photo P38 – Additional Culvert#8



Photo P39 – Additional Culvert#9



Photo P40 – Additional Culvert#9



Photo P41 – Additional Culvert#10



Photo P42 – Additional Culvert#10



Photo P43 – Additional Culvert#11



Photo P44 – Additional Culvert#11



Photo P45 – Additional Culvert#12



Photo P46 – Additional Culvert#12



Photo P47 – Additional Culvert#13



Photo P48 – Additional Culvert#13



Photo P49 – Additional Culvert#14



Photo P50 – Additional Culvert#14



Photo P51 – Additional Culvert#15



Photo P52 – Additional Culvert#15



Photo P53 – Additional Culvert#16



Photo P54 – Additional Culvert#16



Photo P55 – Additional Culvert#17



Photo P56 – Additional Culvert#17



Photo P57 – Additional Culvert#18



Photo P58 – Additional Culvert#18



Photo P59 – Additional Culvert#19



Photo P60 – Additional Culvert#19



Photo P61 – Additional Culvert#20



Photo P62 – Additional Culvert#20



Photo P63 – Additional Culvert#21



Photo P64 – Additional Culvert#21



Photo P65 – Additional Culvert#22



Photo P66 – Additional Culvert#22



Photo P67 – Additional Culvert#23



Photo P68 – Additional Culvert#23



Photo P69 – Additional Culvert#24



Photo P70 – Additional Culvert#24



Photo P71 – Additional Culvert#25



Photo P72 – Additional Culvert#25



Photo P73 – Additional Culvert#26



Photo P74 – Additional Culvert#26



Photo P75 – Additional Culvert#27



Photo P76 – Additional Culvert#27

Minor Culvert Listing With Inspection References- Region Of Peel
2013-04-12

Regional Road #- 011

<u>Culvert ID*</u>	<u>Type</u>	<u>Stationing¹</u>	<u>Picture No.</u>	<u>Street Name</u>	<u>Location Reference</u>	<u>Intersection Reference</u>	<u>Loc_Traffic</u>	<u>Dia. (mm)</u>	<u>Material</u>	<u>Shap</u>	<u>Barrier</u>	<u>Length (m)</u>	<u>X_co-ord.*</u>	<u>Y-Co-ord.*</u>	<u>Insp_Date</u>	<u>Overall Condition</u>	<u>Remarks</u>	<u>Recommendations</u>
CUL-011-057	CUL-EC		P1-P2	BUSH ST	523	OLD MAIN ST -- SHAWCREEK RD	EAST BOUND	400	CS	R	N	9.30	578877.21	4848964.10	12-Jun-2013	F - G	Damaged and 50% filled with accumulated debris at East end	Needs Flushing
CUL-011-058	CUL-EC		P3-P4	BUSH ST	593	OLD MAIN ST -- SHAWCREEK RD	EAST BOUND	400	CS	R	N	9.50	578964.63	4849068.21	12-Jun-2013	P	Damaged and 25% filled with accumulated debris, West end completely blocked/burried	To be replaced
CUL-011-059	CUL-EC		P5-P6	BUSH ST	595	OLD MAIN ST -- SHAWCREEK RD	EAST BOUND	400	CS	R	N	9.30	578975.04	4849079.90	12-Jun-2013	G	10% filled with accumulated debris	Do nothing
CUL-011-060	CUL-EC		P7-P8	BUSH ST	597	OLD MAIN ST -- SHAWCREEK RD	EAST BOUND	400	CS	R	N	9.35	578998.81	4849109.33	12-Jun-2013	F	15% filled with accumulated debris, damaged at West end	West end to be repaired
CUL-011-061	CUL-EC		P9-P10	BUSH ST	599	OLD MAIN ST -- SHAWCREEK RD	EAST BOUND	400	CS	R	N	7.70	579010.55	4849127.06	12-Jun-2013	P	Damaged and rusted, 25% filled with accumulated debris	To be replaced
Additional Culvert #1		0+000	P11-P12		735	OLD MAIN ST -- SHAWCREEK RD	EAST BOUND	400	P	R	N	27.1			12-Jun-2013	F-G	20% filled with accumulated debris	needs some grading and flushing
Additional Culvert#2		0+110	P13		715	OLD MAIN ST -- SHAWCREEK RD	Centre	500	P	R	N	14			12-Jun-2013	F	North end is inaccessible	Do nothing
CUL-011-064	CUL-PR		P14-P15	BUSH ST	Large Bell boxes just west of Shaw's Creek Rd.	SHAWCREEK RD -- WINSTON CHURCHILL BLVD	WEST BOUND	460	CS	R	N	9.30	578762.00	4848842.00	12-Jun-2013	G	10% filled with accumulated debris.	Do nothing
CUL-011-065	CUL-FE		P16-P17	BUSH ST		SHAWCREEK RD -- WINSTON CHURCHILL BLVD	EAST BOUND	400	CS	R	N	6.20	578574.54	4848574.85	12-Jun-2013	F - P	25% filled with accumulated debris, damaged and rusted on West end	Needs to be repaired, flushing
CUL-011-066	CUL-CC		P18-P19	BUSH ST	JUST WEST OF 462 BUSH ST.	SHAWCREEK RD -- WINSTON CHURCHILL BLVD	CENTRE	900	CS	R	Y	30.20	578702.76	4848743.88	12-Jun-2013	G	25% filled with accumulated debris, North end of culvert is inaccessible so length is unconfirmed	Needs Flushing
CUL-011-067	CUL-IS		P20-P21	BUSH ST	SHAW CREEK RD	AT J/O SHAWCREEK RD	EAST BOUND	400	CS	R	N	14.70	578824.25	4848900.84	12-Jun-2013	F	25% filled with accumulated debris at West end	Needs some grading and flushing
												Total Length (m):-		106.80				

*Prived by the Region of peel

¹ Stationing is only for Additional Culverts (from Mississauga Rd. 0+000 to WCB 2+000)



Photo P1 – CUL-011-057



Photo P2 – CUL-011-057



Photo P3 – CUL-011-058



Photo P4 – CUL-011-058



Photo P5 – CUL-011-059



Photo P6 – CUL-011-059



Photo P7 – CUL-011-060



Photo P8 – CUL-011-060



Photo P9 – CUL-011-061



Photo P10 – CUL-011-061



Photo P11 – Additional Culvert # 1



Photo P12 – Additional Culvert # 1



Photo P13 – Additional Culvert # 2



Photo P14 – CUL-011-064



Photo P15 – CUL-011-064



Photo P16 – CUL-011-065



Photo P17 – CUL-011-065



Photo P18 – CUL-011-066



Photo P19 – CUL-011-066



Photo P20 – CUL-011-067



Photo P21 – CUL-011-067