PUBLIC WORKS DEPARTMENT

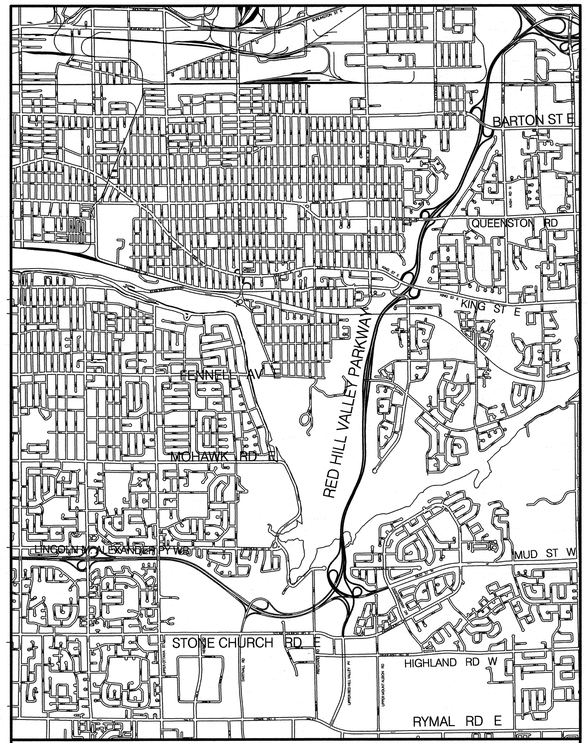
General Manager, Dan McKinnon

Hamilton

Contract No. C15-20-19 (H)

RED HILL VALLEY PARKWAY, MUD STREET INTERCHANGE TO MTO QEW LIMITS

PROPOSED ROAD RESURFACING



KEY PLAN

NTS

Issued for : Tender ☐ Construction ☐

Contract No. C15-20-19 (H)

City of Hamilton

LIST OF DRAWINGS

PLAN No.	SHEET No.	STREET NAME	DESCRIPTION
17-H-16	K	Red Hill Valley Parkway	Project Key Map
17-H-16	1 - 25	Red Hill Valley Parkway	From : Mud Street to Q.E.W Limits
			Road Resurfacing and Associated Works
17-H-16	GR1 to GR24	Red Hill Valley Parkway	Guide Rail Drawings
PM-K	-	Red Hill Valley Parkway	Pavement Marking Design Key Map
PM-1 to PM-23	-	Red Hill Valley Parkway	Pavement Marking Design
DT: TM-1 to TM-6	-	Red Hill Valley Parkway	Traffic Management Control Plans
17-H-16	PVMS	Red Hill Valley Parkway	Portable Variable Message Signs (PVMS) Trailer Locations
05-H-52	S1	Red Hill Valley Parkway	Red Hill Valley Project - Mainline Structure North of CNR General Arrangement
			FOR INFORMATION ONLY
06-H-14	S1	Red Hill Valley Parkway	Red Hill Valley Project - Escarpment Bridge General Arrangement
			FOR INFORMATION ONLY

LEGEND

EXIST SEWER MANHOLE (SMH)
EXIST CATCH BASIN (CB)
EXIST DITCH INLET (DI)
EXIST DITCH OUTLET (DO)
EXIST DOUBLE CB (DCB)
EXIST STORM SEWER
EXIST SANITARY SEWER
EXIST COMBINED SEWER

EXIST FIRE HYDRANT (HYD)
EXIST WATER SERVICE VALVE (SV)
EXIST VALVE CHAMBER (VC)
EXIST WATERMAIN

TRAFFIC HANDHOLE (HH)
TRAFFIC JUNCTION BOX (JB)
TRAFFIC LIGHT (TL)
TRAFFIC MANHOLE (TL)
TRAFFIC PARKING METER (PM)
TRAFFIC DOUBLE METER (DPM)
TRAFFIC DUCT

EXIST GAS VALVE (GASVLV)
EXIST GASMAIN

EXIST BELL MANHOLE (BMH)
EXIST BELL PHONE BOOTH (PHONE)
EXIST BELL PEDESTAL (PED)
EXIST BELL CONDUIT

EXIST HYDRO MANHOLE (HMH)
EXIST HYDRO VAULT (HYV)
EXIST HYDRO CONDUIT

COAXIAL UTILITY

ROAD SIGN (RDS)
POLES (BP, UP, CHP, ULS, WHP)

RAILROAD CROSSING SIGN (RXR)
RAILROAD TRACKS

PAVING STONE	PS
CONCRETE	C
ASPHALT	A
GRAVEL	G
CONCRETE CURB	CC
WOOD TIES	WT
COMBINED WALK & CURB	CW&C
BOULEVARD	BLVD
RETAINING WALL	RW

QUALITY CONTROL IN ACCORDANCE WITH ASCE STANDARD 38-02

ALL UTILITIES DEPICTED ARE AT QUALITY LEVEL C UNLESS OTHERWISE NOTED.

(D) - QUALITY LEVEL D - information derived from existing records
(C) - QUALITY LEVEL C - information obtained from field survey combined with 'D' information
(B) - QUALITY LEVEL B - information obtained in field and indicates horizontal position of subsurface utility
(A) - QUALITY LEVEL A - precise horizontal and vertical location of utility obtained by exposure and measurement

FULL SIDEWALK RECONSTRUCTION

SIDEWALK REPAIR ONLY

SIDEWALK TO REMAIN

RAMPS, DEPRESSIONS, TACTILE TONAL AREAS AND DIRECTIONAL LINES PER RD-124.

LIMIT OF CONSTRUCTION

■ *DENOTES REMOVE AND REPLACE CATCH BASIN & 250mm CATCH BASIN LEAD, UNLESS OTHERWISE NOTED.*

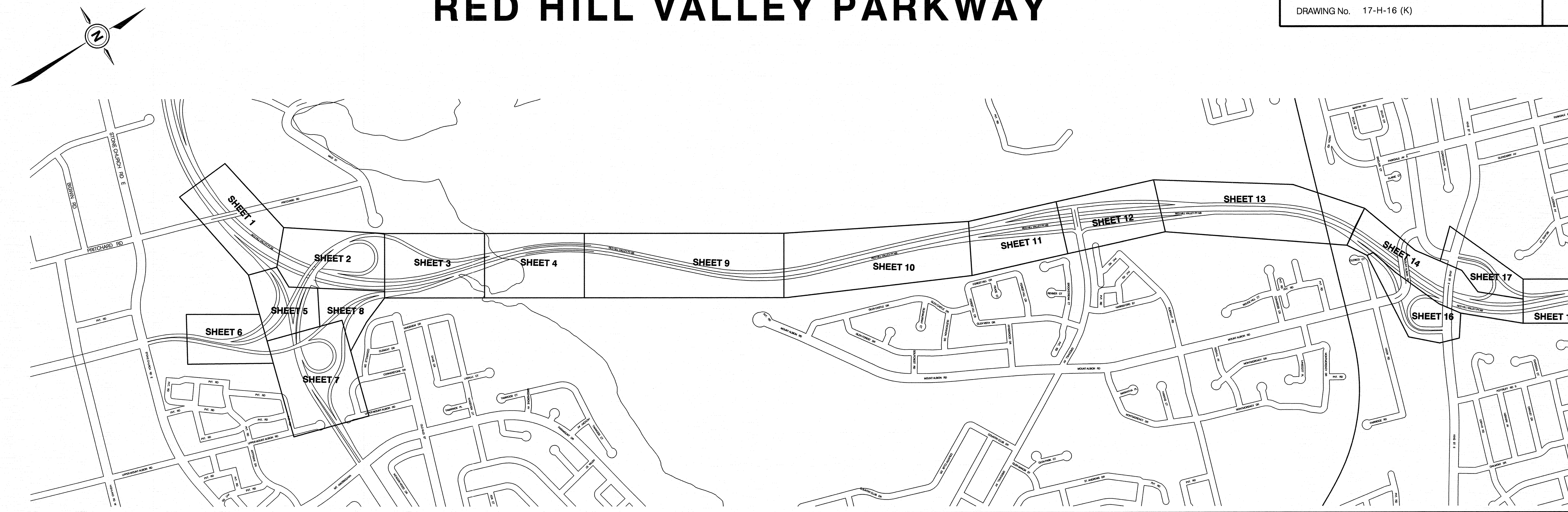
CATCH BASINS (OPSD 705.010 & 705.020) MODIFIED WITH GOSS TRAP & STOPPER (SEW-304). FRAME & COVER (OPSD 400.100) INCLUDING 6m OF 100mm PERFORATED PIPE WITH FILTER "SOCK" AND CLEAR STONE.

ABANDONED CATCH BASIN & VALVE CHAMBER LEADS TO BE REMOVED, CAPPED AND SEALED AT THE MAIN.

Contract No. C15-20-19 (H)

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)	SHEET No.
DRAWING No. 17-H-16 (K)	K





No.	REVISIONS	INITIAL	DATE
⚠	No Revisions	initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcil plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	01-05-17
Design By:	N.Z, T.B
Design Date:	1-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
(D) information derived from existing records
(C) information obtained from field survey combined with (D) information
(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES

0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY

Project Key Map

From : Mud Street Interchange
To : Queen Elizabeth Way

17-H-16 (K)

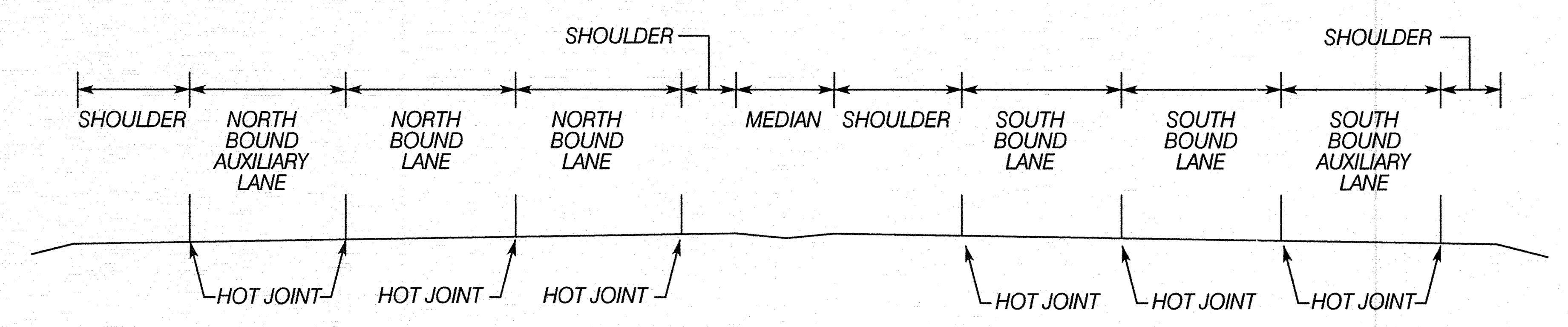
RED HILL VALLEY PARKWAY

17-H-16 (1)

RED HILL VALLEY PARKWAY

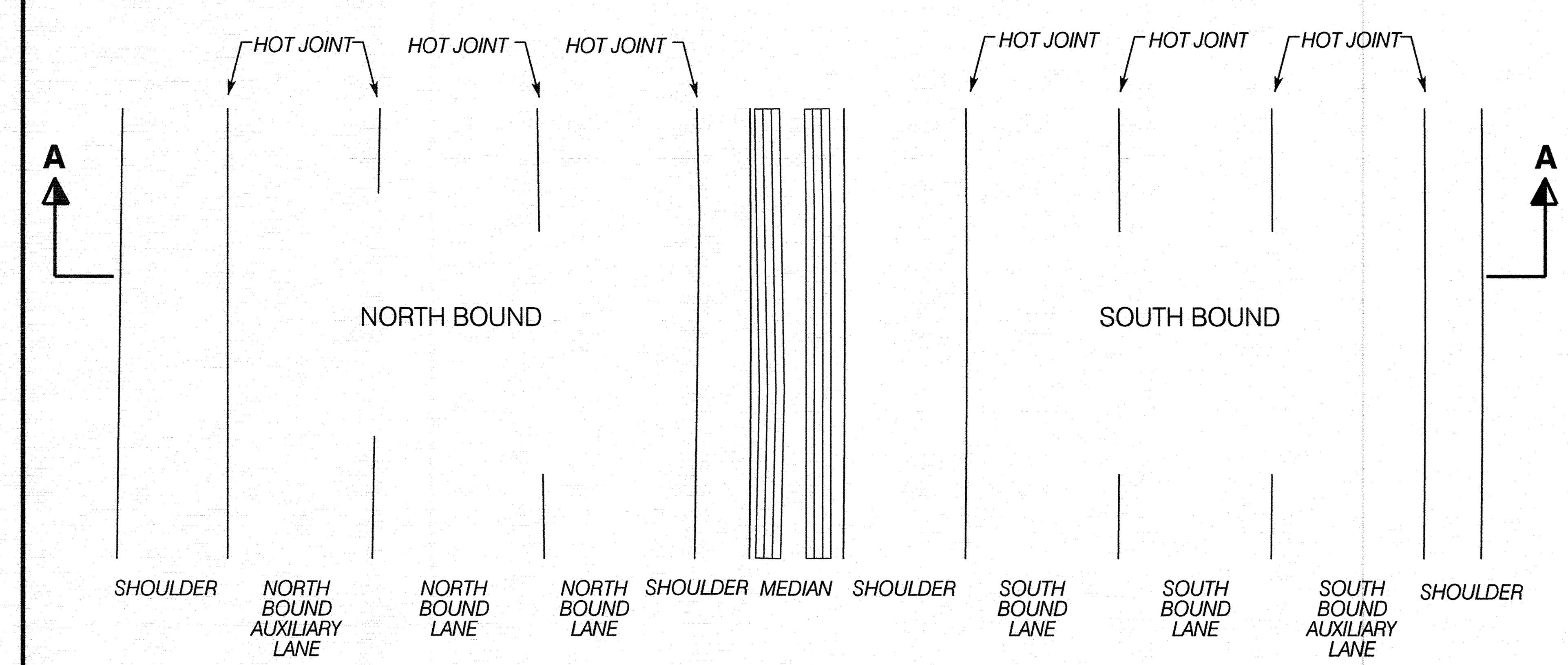
CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (1)

SHEET No.
1 OF 25



SECTION VIEW A-A
NTS

NOTE: ALL HOT JOINTS TO LINE WITH PROPOSED PAVEMENT MARKINGS



TYPICAL PAVING HOT JOINT LOCATIONS
NTS

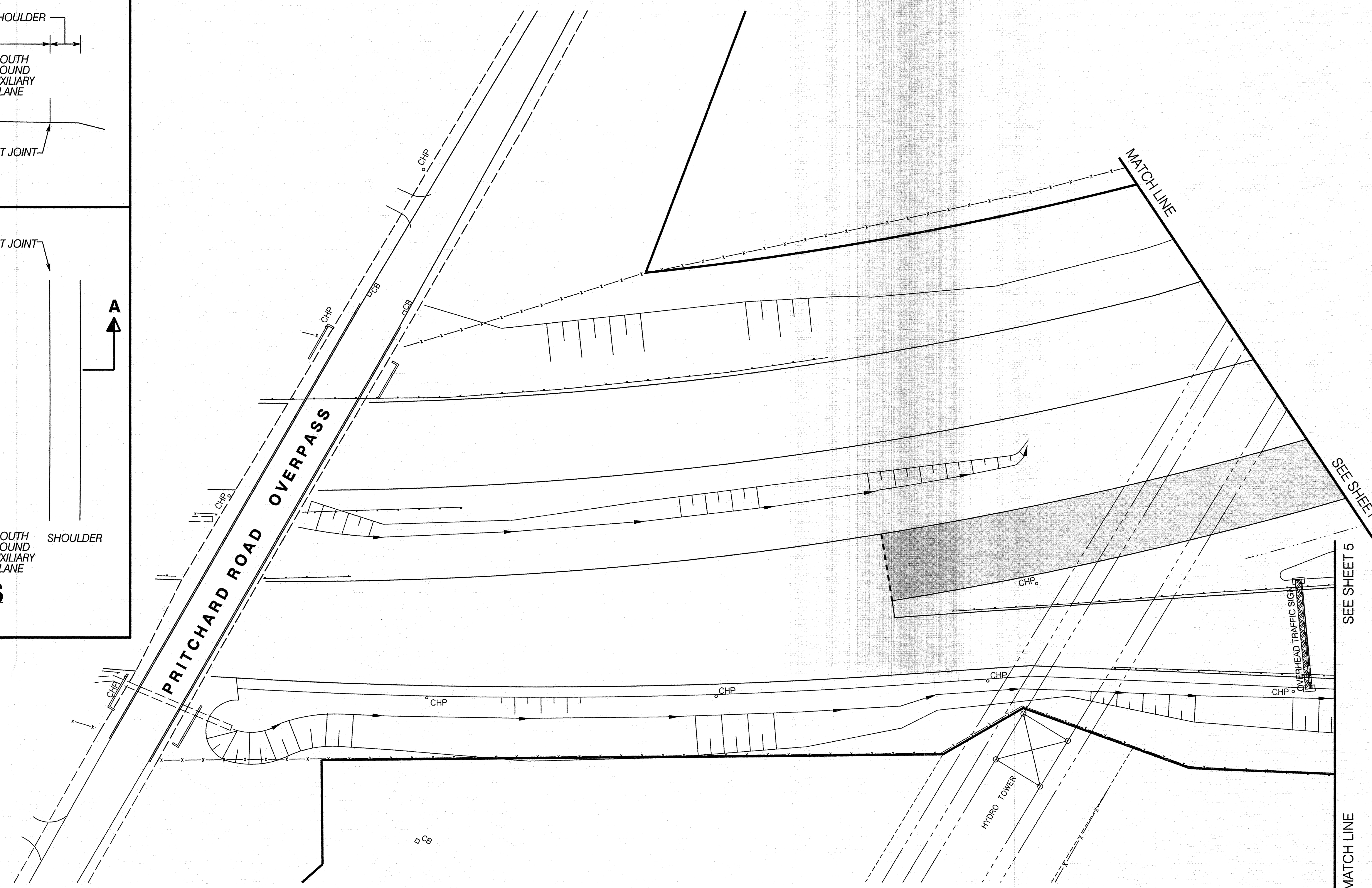
LEGEND

MILL EXISTING ASPHALT 50mm DEPTH.
SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

FRAME & COVER REPLACEMENTS, ADJUSTMENTS TO FRAMES AND COVERS, CURB REPAIRS AS DIRECTED BY THE PROJECT MANAGER.



No.	REVISIONS	INITIAL	DATE
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ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z, T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.
Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY
Road Resurfacing
From : Mud Street Interchange
To : Queen Elizabeth Way

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (2)

SHEET No. 2 OF 25



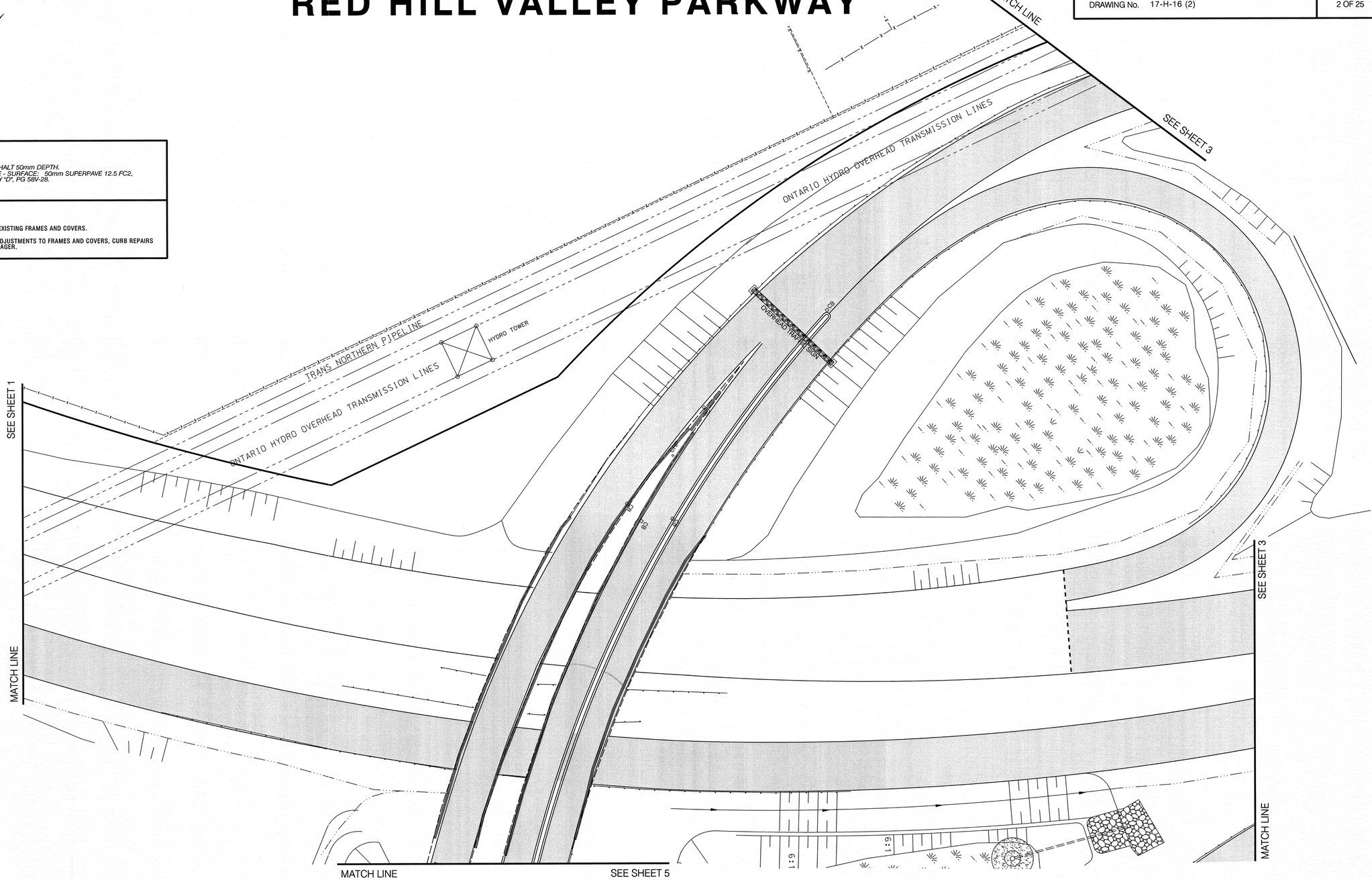
LEGEND

MILL EXISTING ASPHALT 50mm DEPTH.
SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2,
TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

FRAME & COVER REPLACEMENTS, ADJUSTMENTS TO FRAMES AND COVERS, CURB REPAIRS AS DIRECTED BY THE PROJECT MANAGER.



No.	REVISIONS	INITIAL	DATE
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REFERENCE MATERIAL

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Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z, T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
(D) information derived from existing records
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(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES

HORIZONTAL 1:500 (0, 5m, 10m, 20m)

VERTICAL 1:100 (0, 1m, 2m, 4m)

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY
Road Resurfacing
From : Mud Street Interchange
To : Queen Elizabeth Way

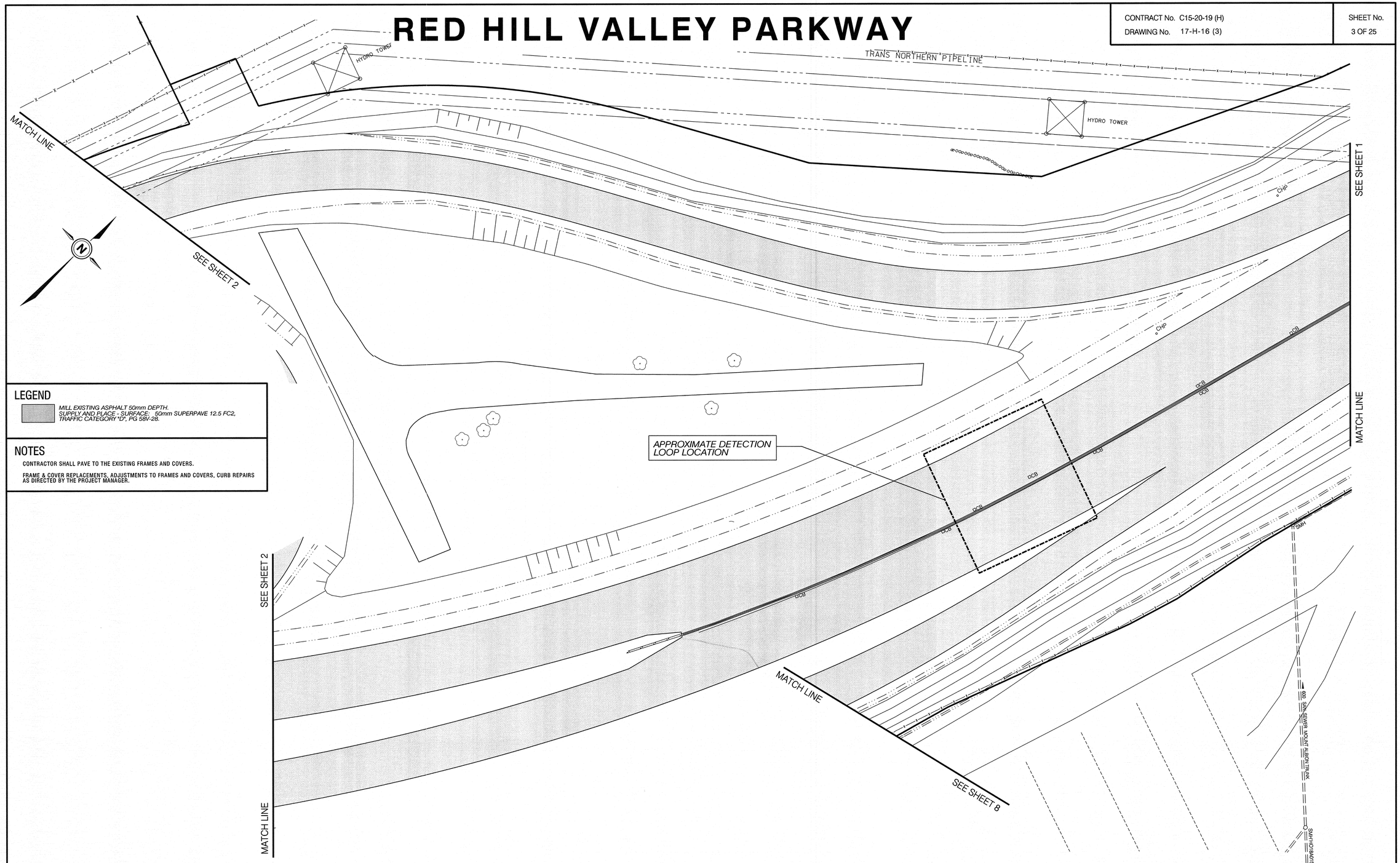
17-H-16 (2)

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (3)

SHEET No. 3 OF 25



LEGEND

MILL EXISTING ASPHALT 50mm DEPTH.
SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

FRAME & COVER REPLACEMENTS, ADJUSTMENTS TO FRAMES AND COVERS, CURB REPAIRS AS DIRECTED BY THE PROJECT MANAGER.

17-H-16 (3)

No.	REVISIONS	INITIAL	DATE
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REFERENCE MATERIAL

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Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z, T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
(D) information derived from existing records
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(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES

0 5m 10m 20m
HORIZONTAL 1:500

0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY

Road Resurfacing

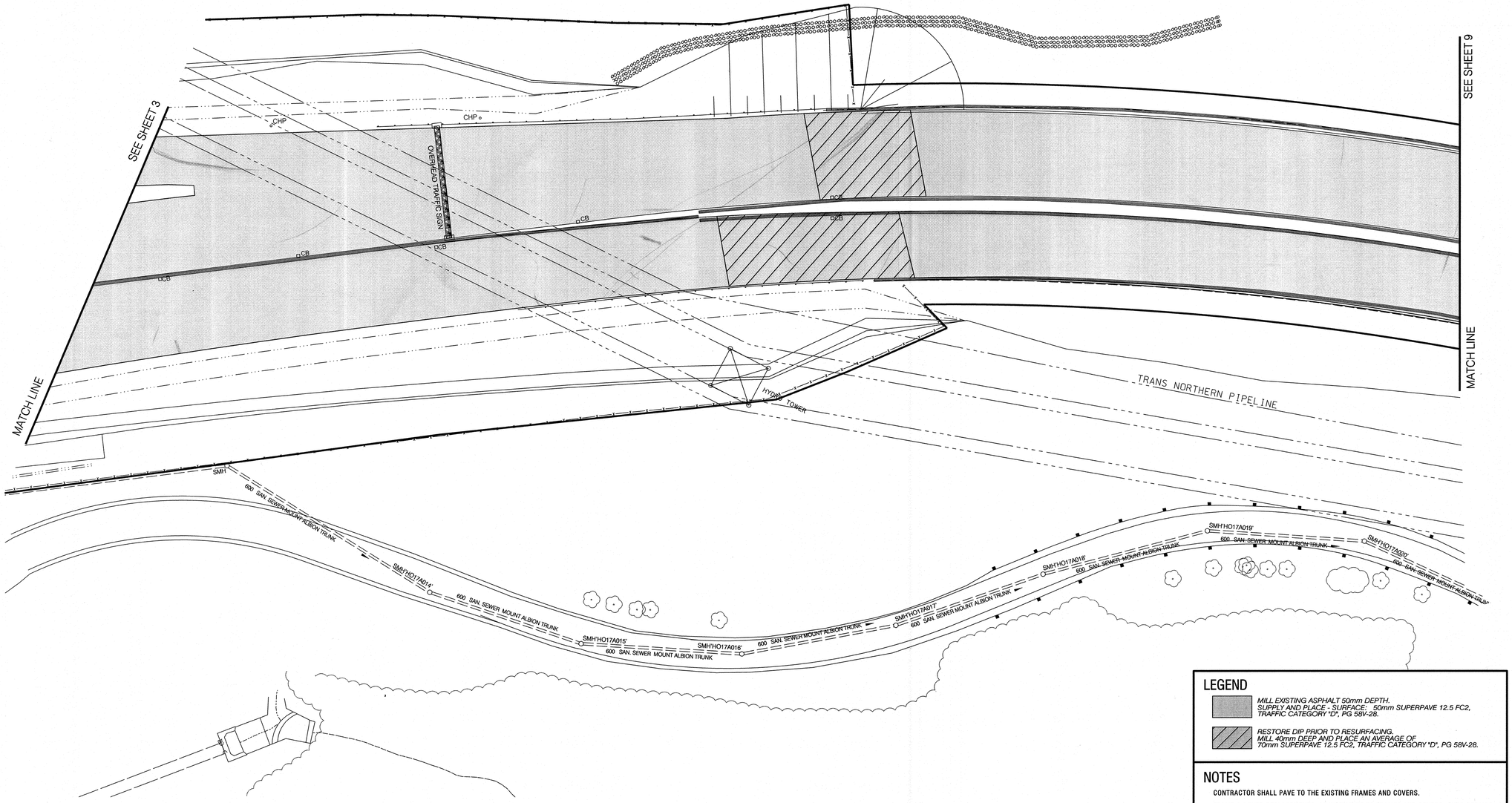
From : Mud Street Interchange
To : Queen Elizabeth Way

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (4)

SHEET No. 4 OF 25



LEGEND

MILL EXISTING ASPHALT 50mm DEPTH.
SUPPLY AND PLACE - SURFACE - 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

RESTORE DIP PRIOR TO RESURFACING.
MILL 40mm DEEP AND PLACE AN AVERAGE OF 70mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

FRAME & COVER REPLACEMENTS, ADJUSTMENTS TO FRAMES AND COVERS, CURB REPAIRS AS DIRECTED BY THE PROJECT MANAGER.

No.	REVISIONS	INITIAL	DATE
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ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z, T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY
Road Resurfacing
From : Mud Street Interchange
To : Queen Elizabeth Way

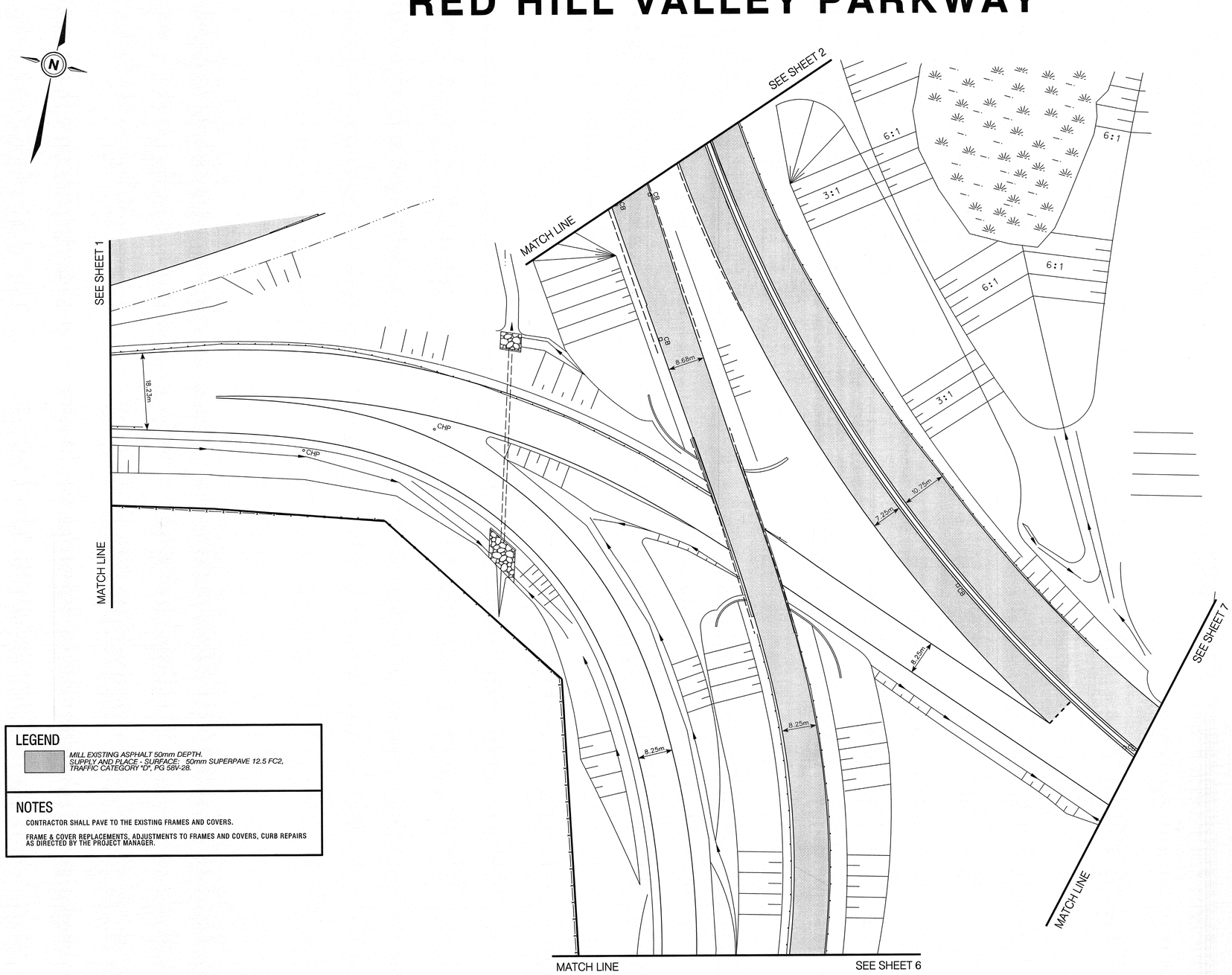
17-H-16 (4)

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (5)

SHEET No. 5 OF 25



LEGEND

MILL EXISTING ASPHALT 50mm DEPTH.
SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2,
TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

FRAME & COVER REPLACEMENTS, ADJUSTMENTS TO FRAMES AND COVERS, CURB REPAIRS AS DIRECTED BY THE PROJECT MANAGER.

17-H-16 (5)

No.	REVISIONS	INITIAL	DATE
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REFERENCE MATERIAL

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Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z, T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES

0 5m 10m 20m
HORIZONTAL 1:500

0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY

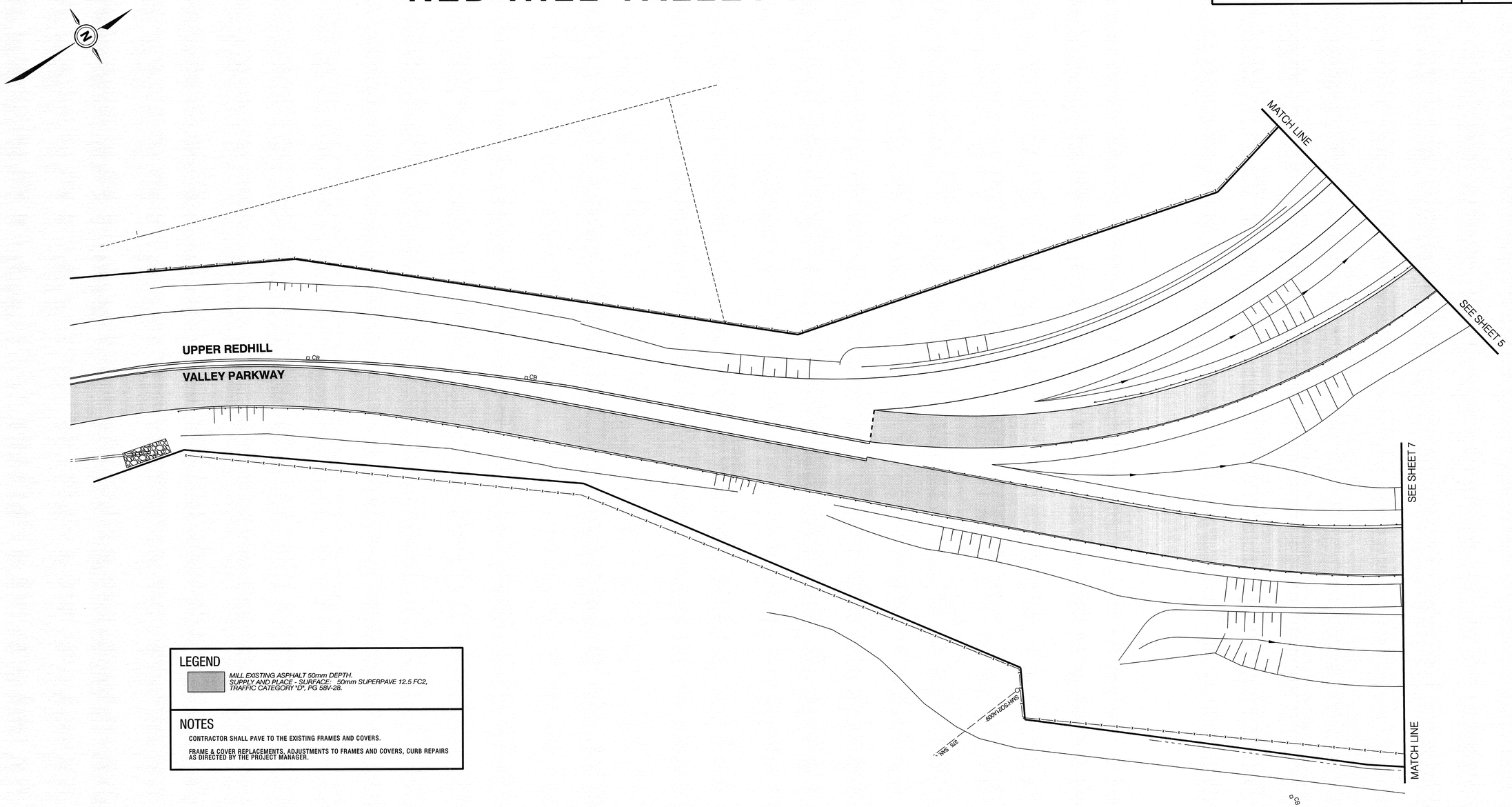
Road Resurfacing

From : Mud Street Interchange
To : Queen Elizabeth Way

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)	SHEET No.
DRAWING No. 17-H-16 (6)	6 OF 25



LEGEND

MILL EXISTING ASPHALT 50mm DEPTH.
SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

FRAME & COVER REPLACEMENTS, ADJUSTMENTS TO FRAMES AND COVERS, CURB REPAIRS AS DIRECTED BY THE PROJECT MANAGER.

No.	REVISIONS	INITIAL	DATE
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ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z, T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES

HORIZONTAL 1:500 (0, 5m, 10m, 20m)

VERTICAL 1:100 (0, 1m, 2m, 4m)

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY

Road Resurfacing

From : Mud Street Interchange
To : Queen Elizabeth Way

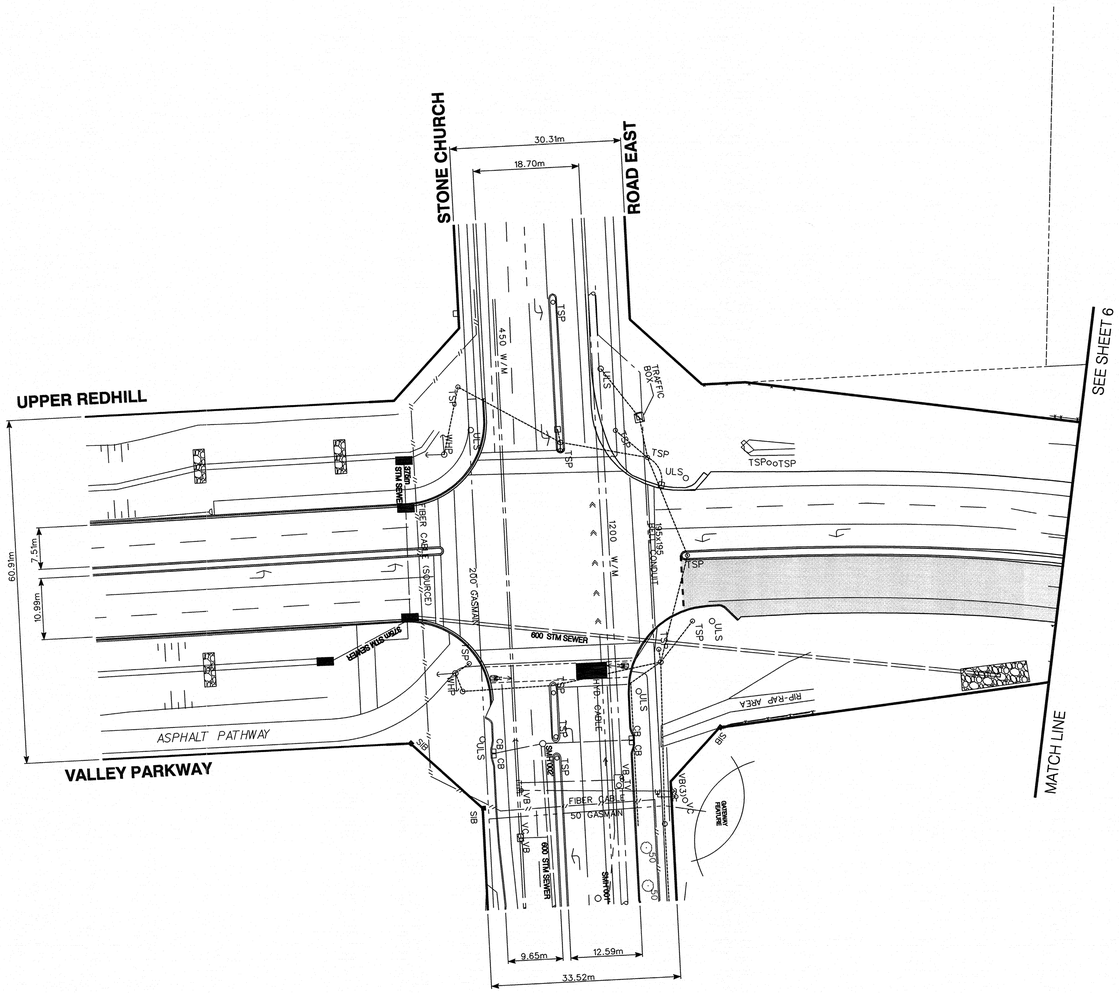
17-H-16 (6)

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (6A)

SHEET No. 6A OF 25



LEGEND

MILL EXISTING ASPHALT 50mm DEPTH.
SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY 'D', PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

FRAME & COVER REPLACEMENTS, ADJUSTMENTS TO FRAMES AND COVERS, CURB REPAIRS AS DIRECTED BY THE PROJECT MANAGER.

17-H-16 (6A)

No.	REVISIONS	INITIAL	DATE
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ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	T.B
Design Date:	01-03-19

O/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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SCALES
HORIZONTAL 1:500 (0, 5m, 10m, 20m)
VERTICAL 1:100 (0, 1m, 2m, 4m)

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

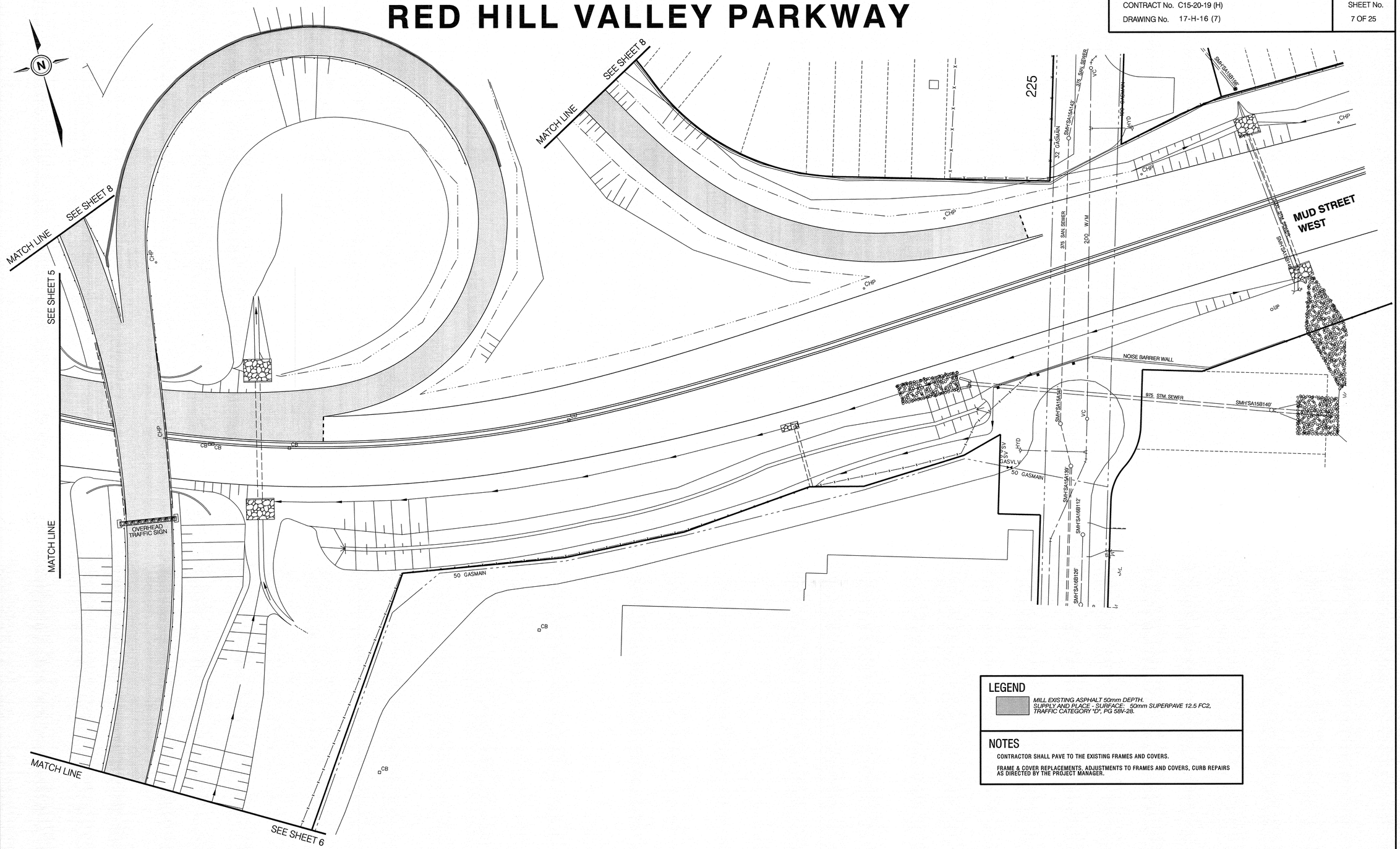
RED HILL VALLEY PARKWAY
Road Resurfacing
From : Mud Street Interchange
To : Queen Elizabeth Way

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (7)

SHEET No. 7 OF 25



LEGEND

MILL EXISTING ASPHALT 50mm DEPTH.
SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

FRAME & COVER REPLACEMENTS, ADJUSTMENTS TO FRAMES AND COVERS, CURB REPAIRS AS DIRECTED BY THE PROJECT MANAGER.

No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

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ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z, T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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SCALES

HORIZONTAL 1:500 (0, 5m, 10m, 20m)
VERTICAL 1:100 (0, 1m, 2m, 4m)

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

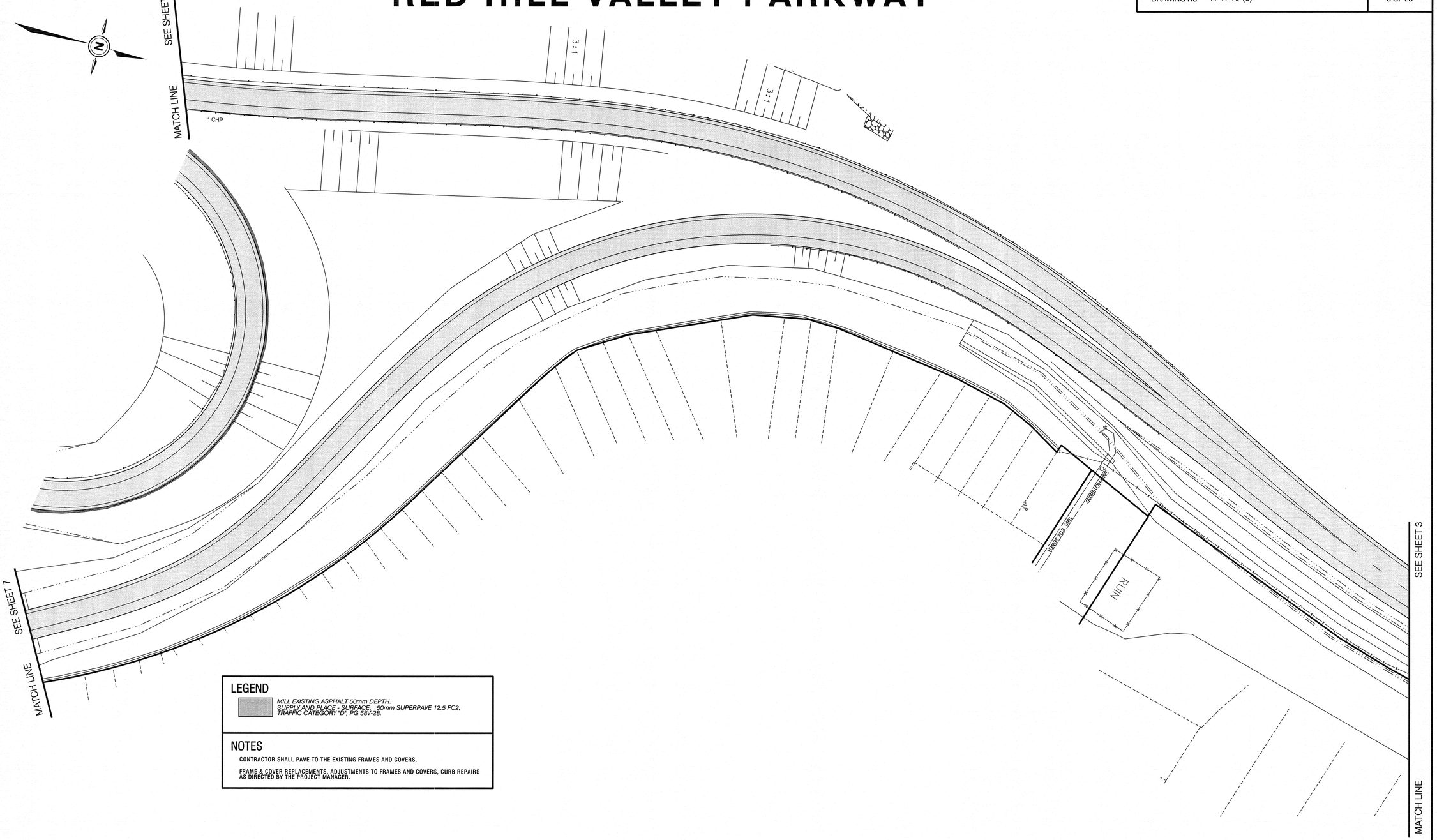
RED HILL VALLEY PARKWAY
Road Resurfacing
From : Mud Street Interchange
To : Queen Elizabeth Way

17-H-16 (7)

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)	SHEET No.
DRAWING No. 17-H-16 (8)	8 OF 25



LEGEND

MILL EXISTING ASPHALT 50mm DEPTH.
SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2,
TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

FRAME & COVER REPLACEMENTS, ADJUSTMENTS TO FRAMES AND COVERS, CURB REPAIRS AS DIRECTED BY THE PROJECT MANAGER.

17-H-16 (8)

No.	REVISIONS	INITIAL	DATE
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ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z, T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
(D) information derived from existing records
(C) information obtained from field survey combined with (D) information
(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.
Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

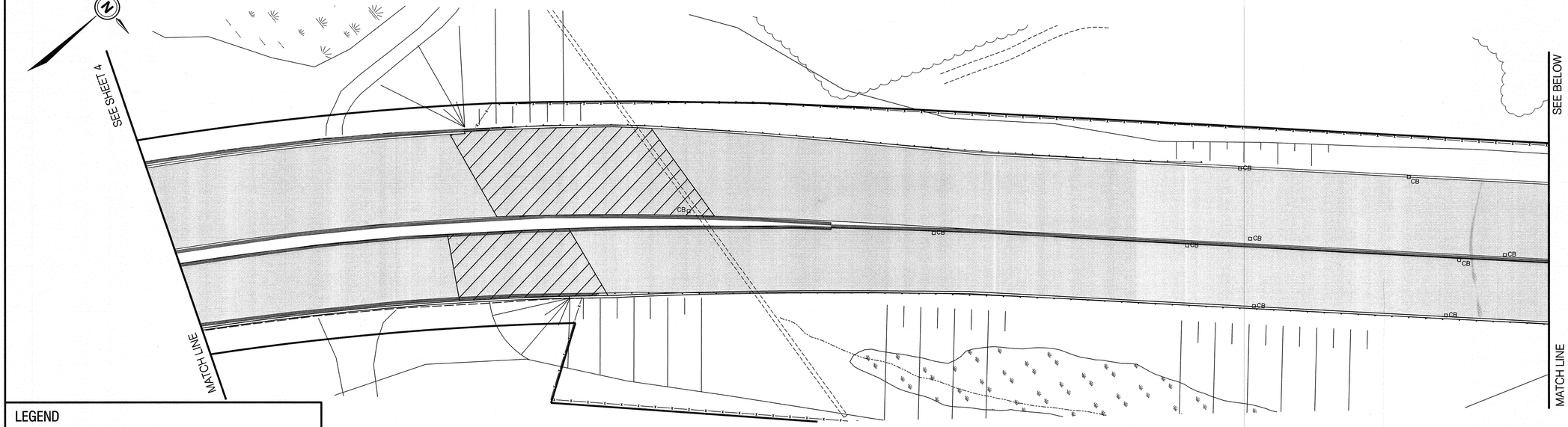
RED HILL VALLEY PARKWAY
Road Resurfacing
From : Mud Street Interchange
To : Queen Elizabeth Way

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (9)

SHEET No. 9 OF 25



LEGEND

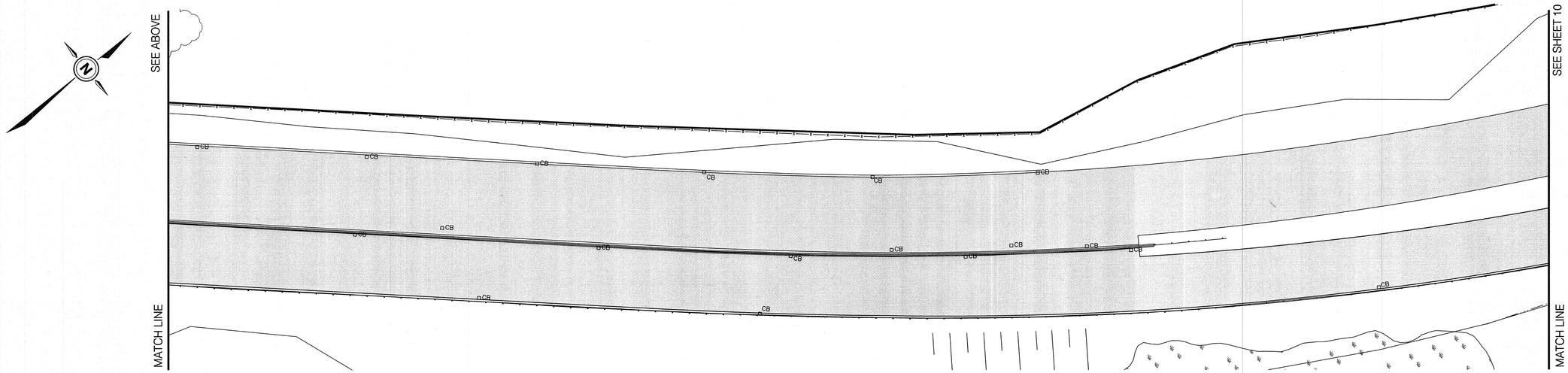
MILL EXISTING ASPHALT 50mm DEPTH.
SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2,
TRAFFIC CATEGORY "D", PG 58V-28.

RESTORE DIP PRIOR TO RESURFACING.
MILL 40mm DEEP AND PLACE AN AVERAGE OF
70mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

FRAME & COVER REPLACEMENTS, ADJUSTMENTS TO FRAMES AND COVERS, CURB REPAIRS AS DIRECTED BY THE PROJECT MANAGER.



No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcil plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S
Drawn Date:	27-04-17
Design By:	N.Z, T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
(For) Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY

Road Resurfacing

From : Mud Street Interchange
To : Queen Elizabeth Way

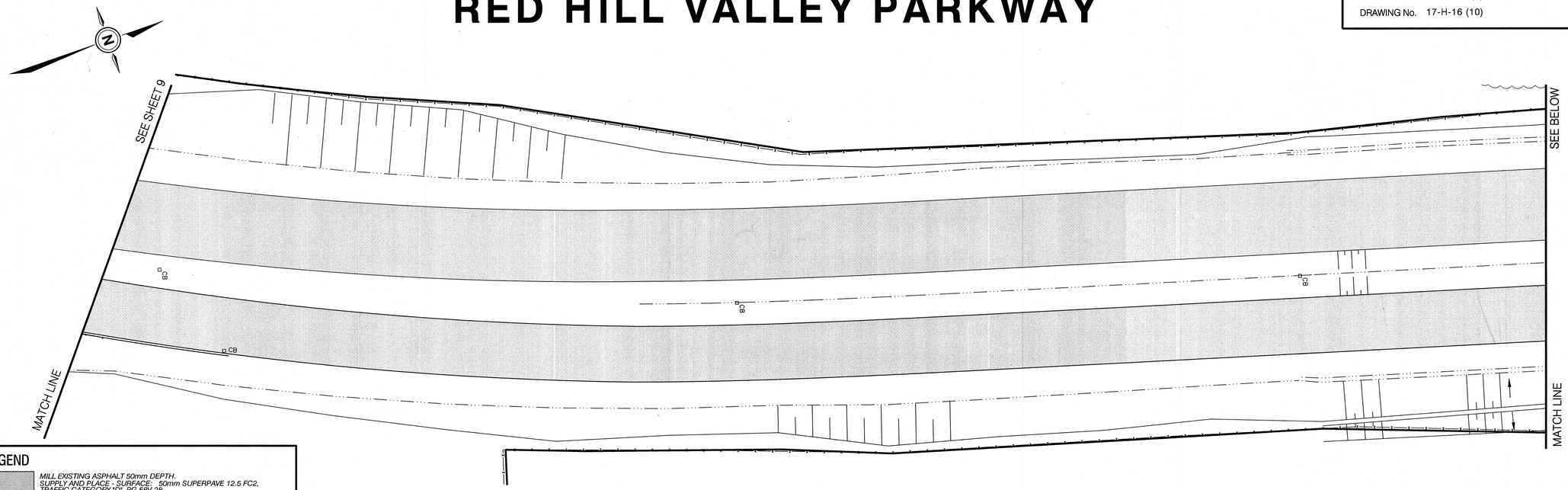
17-H-16 (9)

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (10)

SHEET No. 10 OF 25



LEGEND

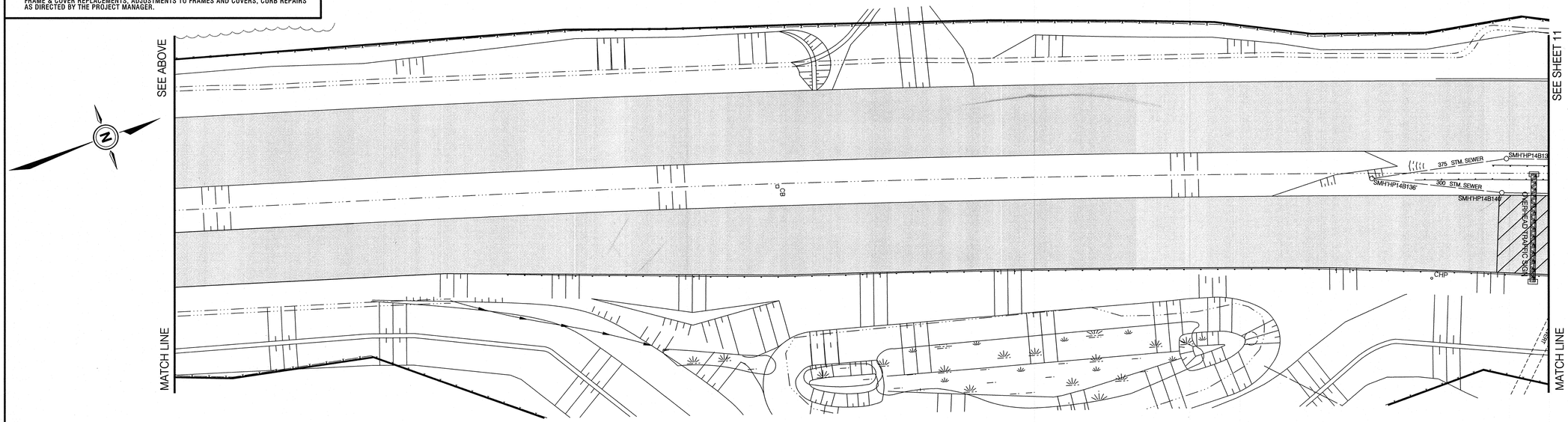
MILL EXISTING ASPHALT 50mm DEPTH.
SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

RESTORE DIP PRIOR TO RESURFACING.
MILL 40mm DEEP AND PLACE AN AVERAGE OF 70mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

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Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z, T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
HORIZONTAL 1:500 (0, 5m, 10m, 20m)
VERTICAL 1:100 (0, 1m, 2m, 4m)

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY
Road Resurfacing
From : Mud Street Interchange
To : Queen Elizabeth Way

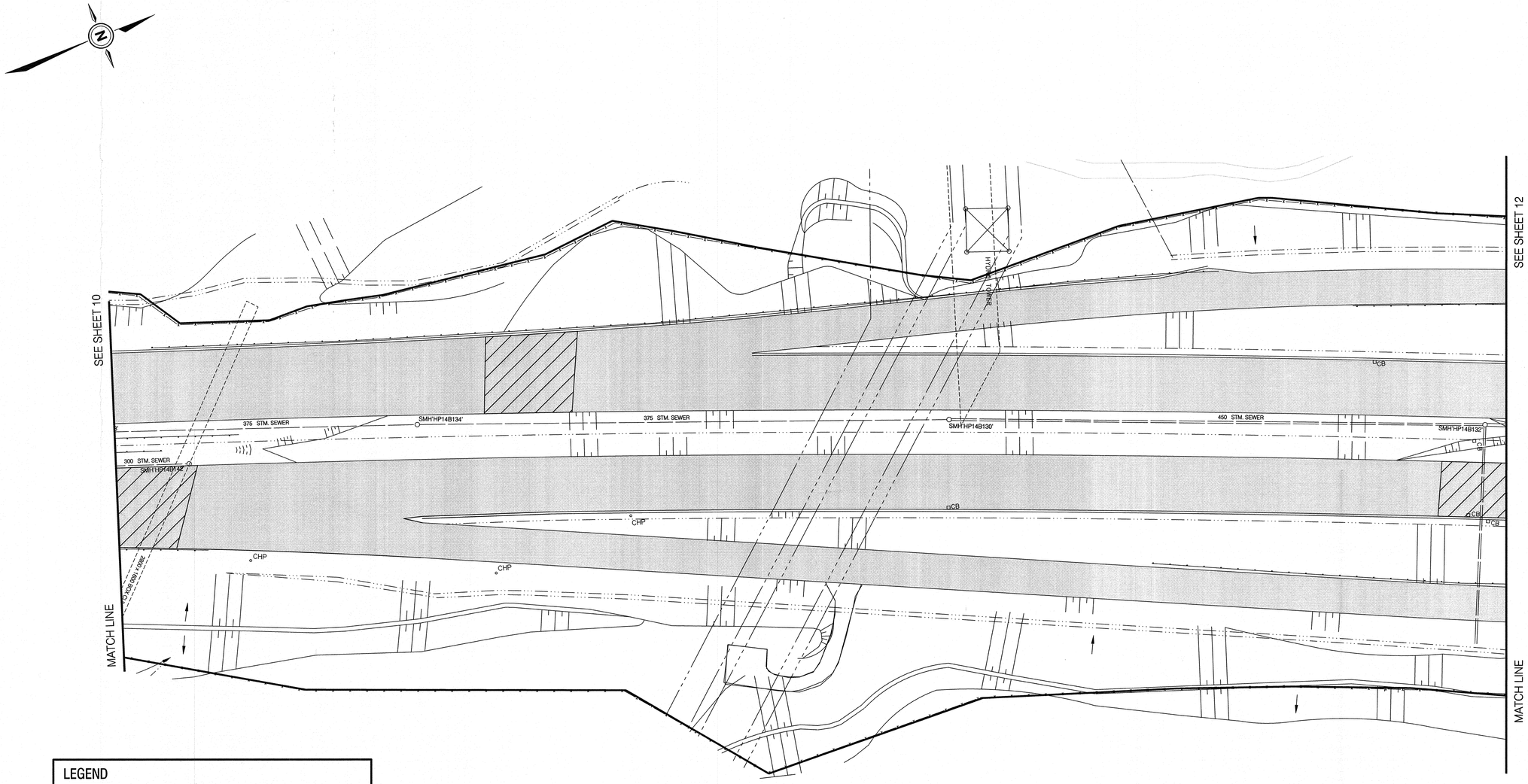
17-H-16 (10)

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (11)

SHEET No. 11 OF 25



LEGEND

MILL EXISTING ASPHALT 50mm DEPTH. SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

RESTORE DIP PRIOR TO RESURFACING. MILL 40mm DEEP AND PLACE AN AVERAGE OF 70mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

FRAME & COVER REPLACEMENTS, ADJUSTMENTS TO FRAMES AND COVERS, CURB REPAIRS AS DIRECTED BY THE PROJECT MANAGER.

No.	REVISIONS	INITIAL	DATE
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ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z. T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY
Road Resurfacing
From : Mud Street Interchange
To : Queen Elizabeth Way

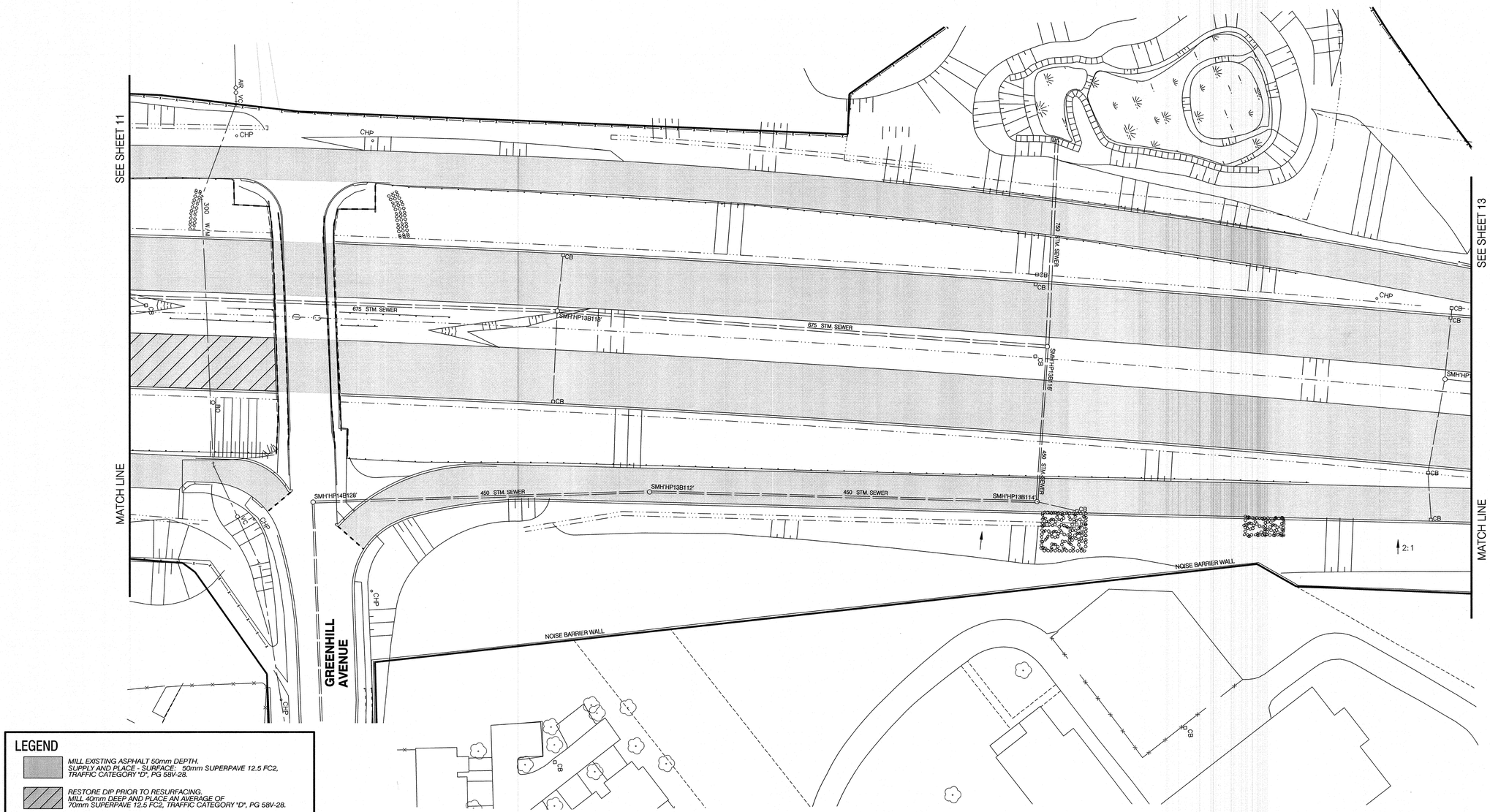
17-H-16 (11)

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (12)

SHEET No. 12 OF 25



LEGEND

MILL EXISTING ASPHALT 50mm DEPTH, SUPPLY AND PLACE - SURFACE - 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

RESTORE DIP PRIOR TO RESURFACING. MILL 40mm DEEP AND PLACE AN AVERAGE OF 70mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

FRAME & COVER REPLACEMENTS, ADJUSTMENTS TO FRAMES AND COVERS, CURB REPAIRS AS DIRECTED BY THE PROJECT MANAGER.

17-H-16 (12)

No.	REVISIONS	INITIAL	DATE
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ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z, T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
(For)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY

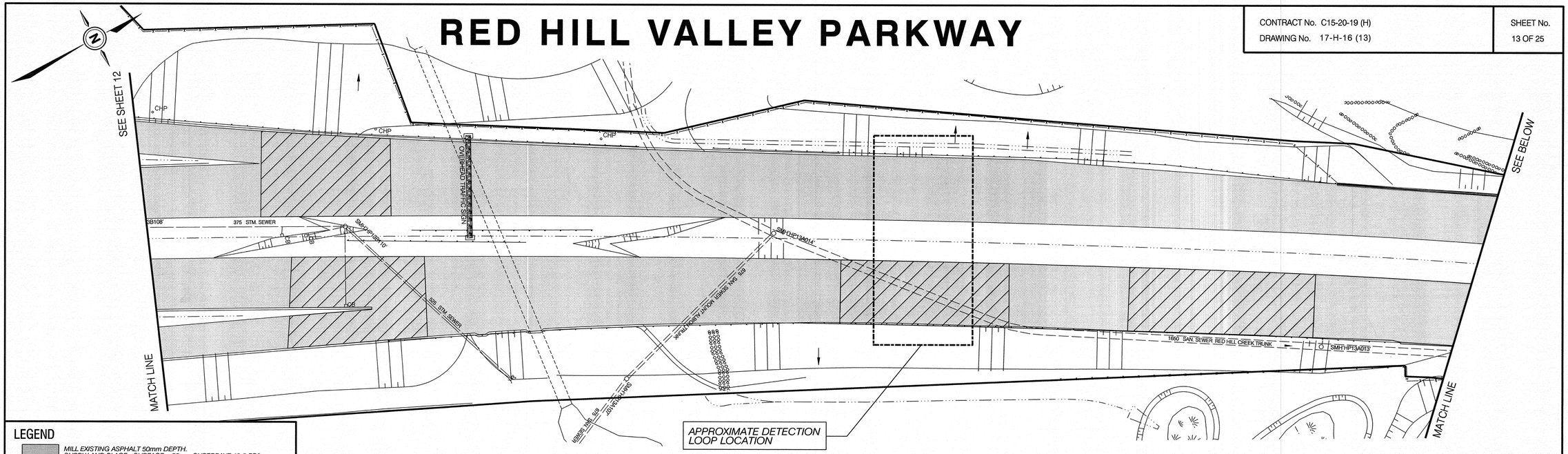
Road Resurfacing

From : Mud Street Interchange
To : Queen Elizabeth Way

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)	SHEET No.
DRAWING No. 17-H-16 (13)	13 OF 25



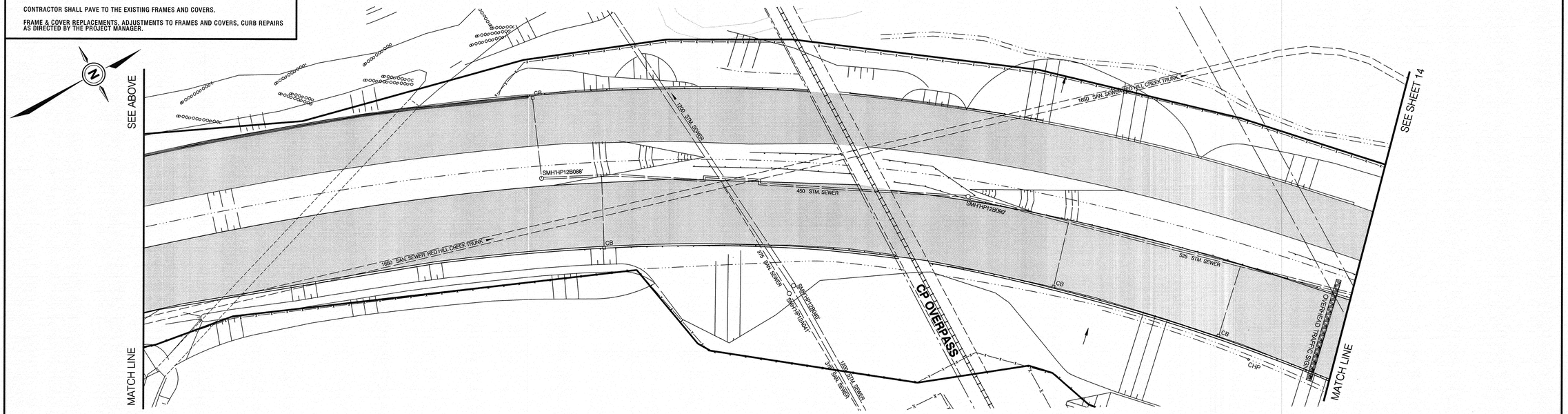
LEGEND

- *MILL EXISTING ASPHALT 50mm DEPTH. SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.*
- *RESTORE DIP PRIOR TO RESURFACING. MILL 40mm DEEP AND PLACE AN AVERAGE OF 70mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.*

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

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Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z, T.B
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SCALES

HORIZONTAL 1:500 (0, 5m, 10m, 20m)

VERTICAL 1:100 (0, 1m, 2m, 4m)

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY

Road Resurfacing

From : Mud Street Interchange
To : Queen Elizabeth Way

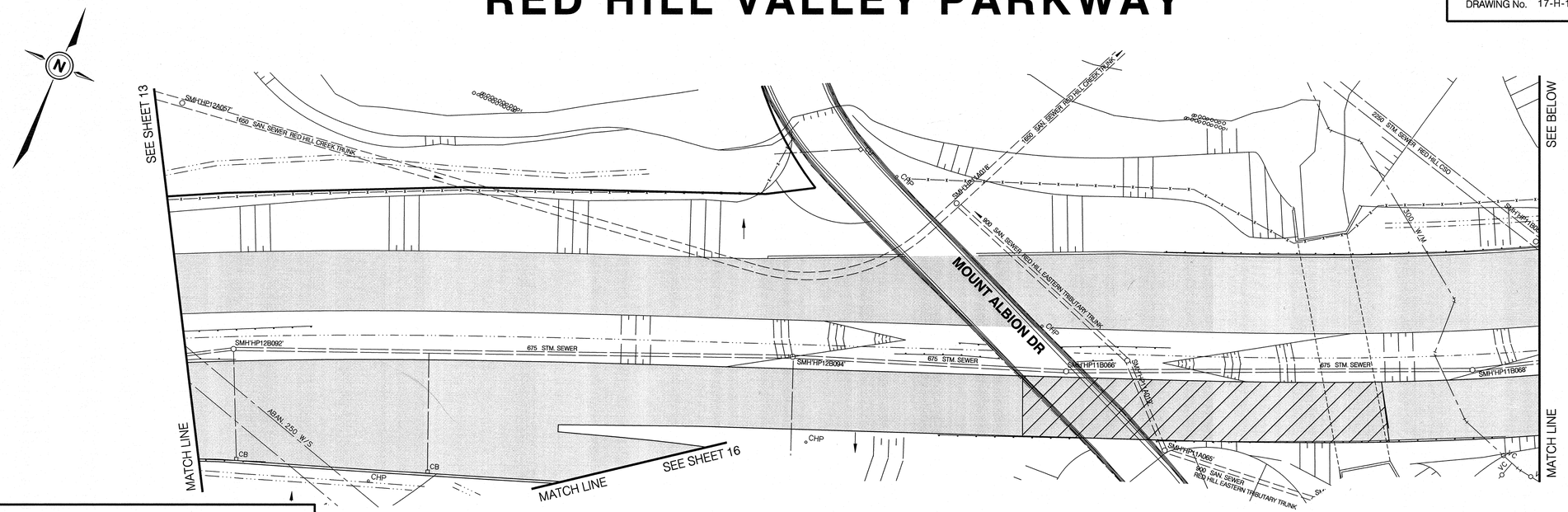
17-H-16 (13)

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (14)

SHEET No.
14 OF 25



LEGEND

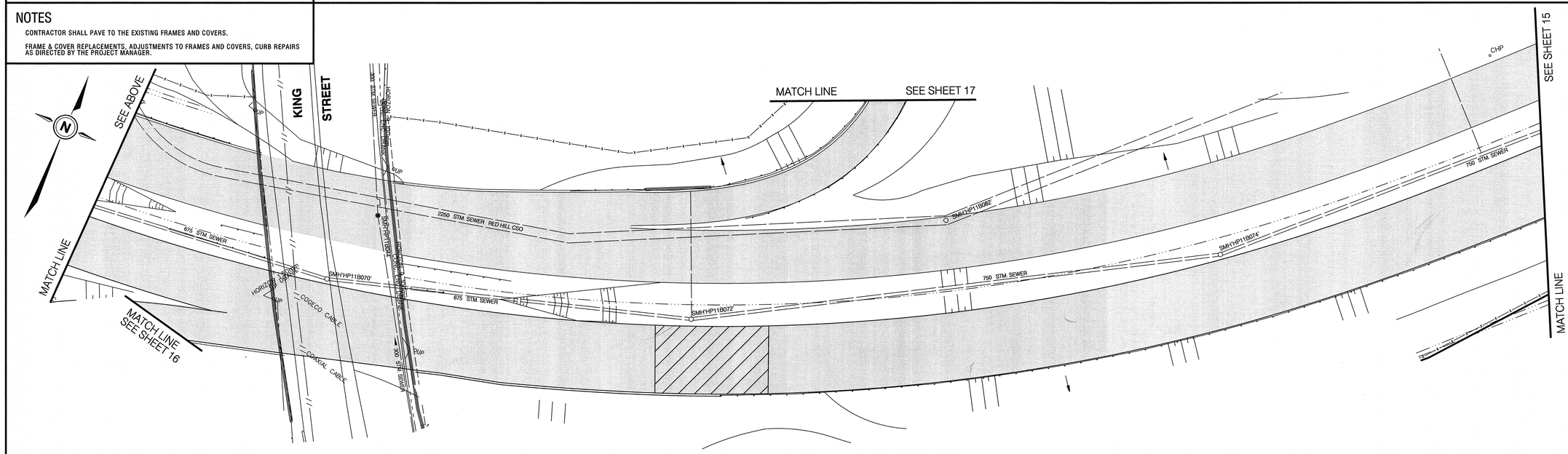
MILL EXISTING ASPHALT 50mm DEPTH. SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

RESTORE DIP PRIOR TO RESURFACING. MILL 40mm DEEP AND PLACE AN AVERAGE OF 70mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

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Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z, T.B
Design Date:	01-03-19

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SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

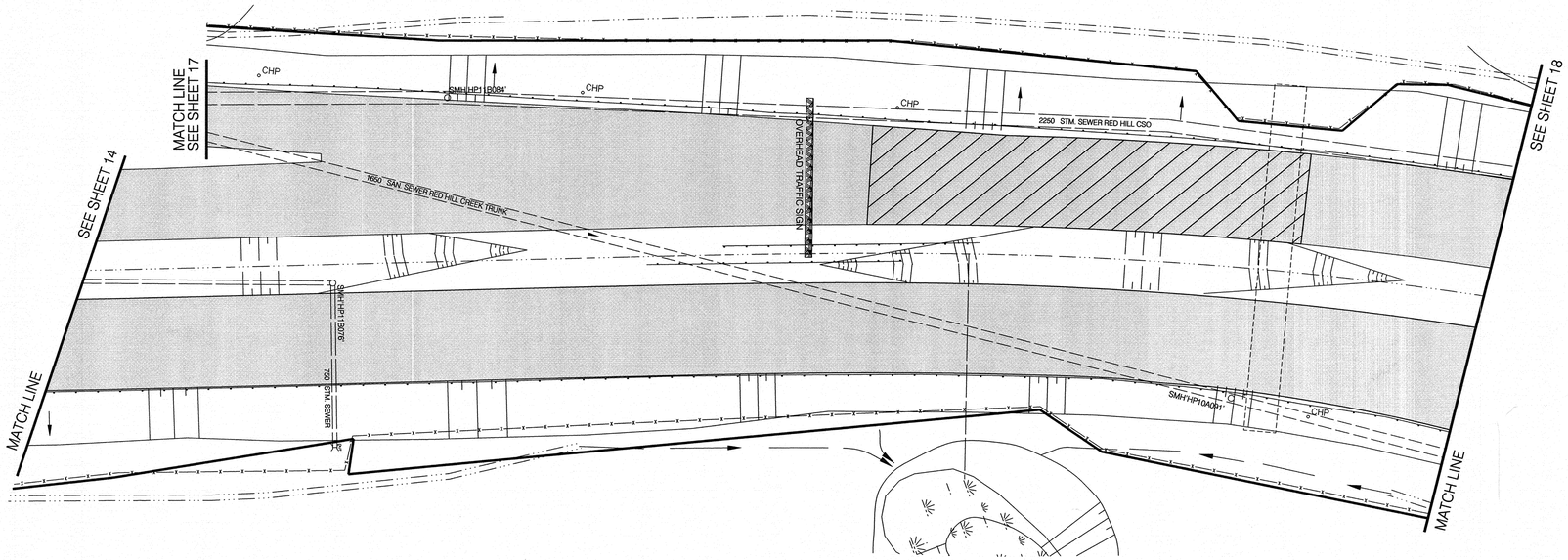
RED HILL VALLEY PARKWAY
Road Resurfacing
From : Mud Street Interchange
To : Queen Elizabeth Way

17-H-16 (14)

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)	SHEET No.
DRAWING No. 17-H-16 (15)	15 OF 25



LEGEND

MILL EXISTING ASPHALT 50mm DEPTH.
SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

RESTORE DIP PRIOR TO RESURFACING.
MILL 40mm DEEP AND PLACE AN AVERAGE OF 70mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

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ACTIVITIES	
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Drawn Date:	27-04-17
Design By:	N.Z, T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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SCALES
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HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

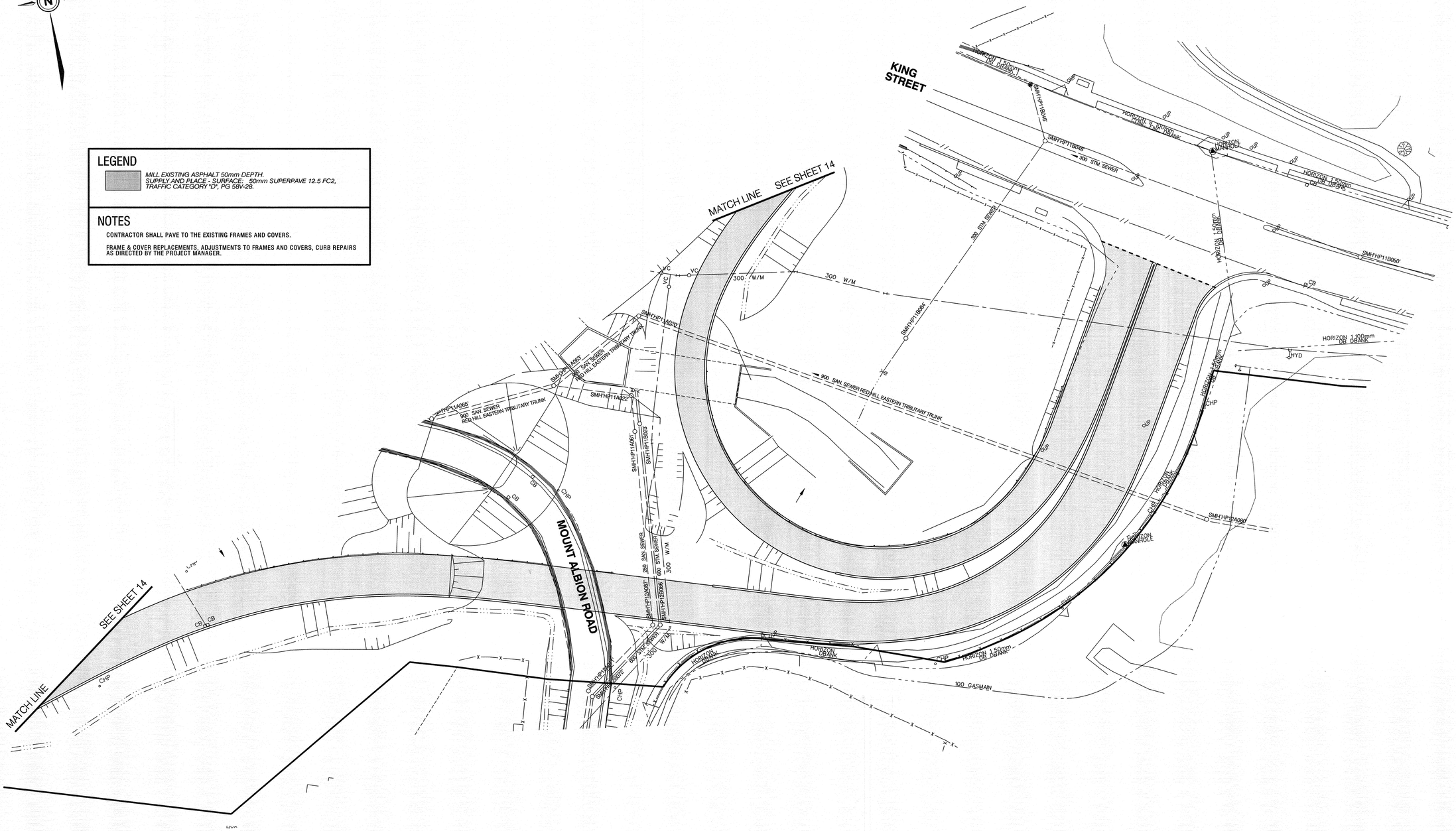
RED HILL VALLEY PARKWAY
Road Resurfacing
From : Mud Street Interchange
To : Queen Elizabeth Way

17-H-16 (15)

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)	SHEET No.
DRAWING No. 17-H-16 (16)	16 OF 25



LEGEND

MILL EXISTING ASPHALT 50mm DEPTH.
SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

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Design Date:	01-03-19

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SCALES
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HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY

Road Resurfacing

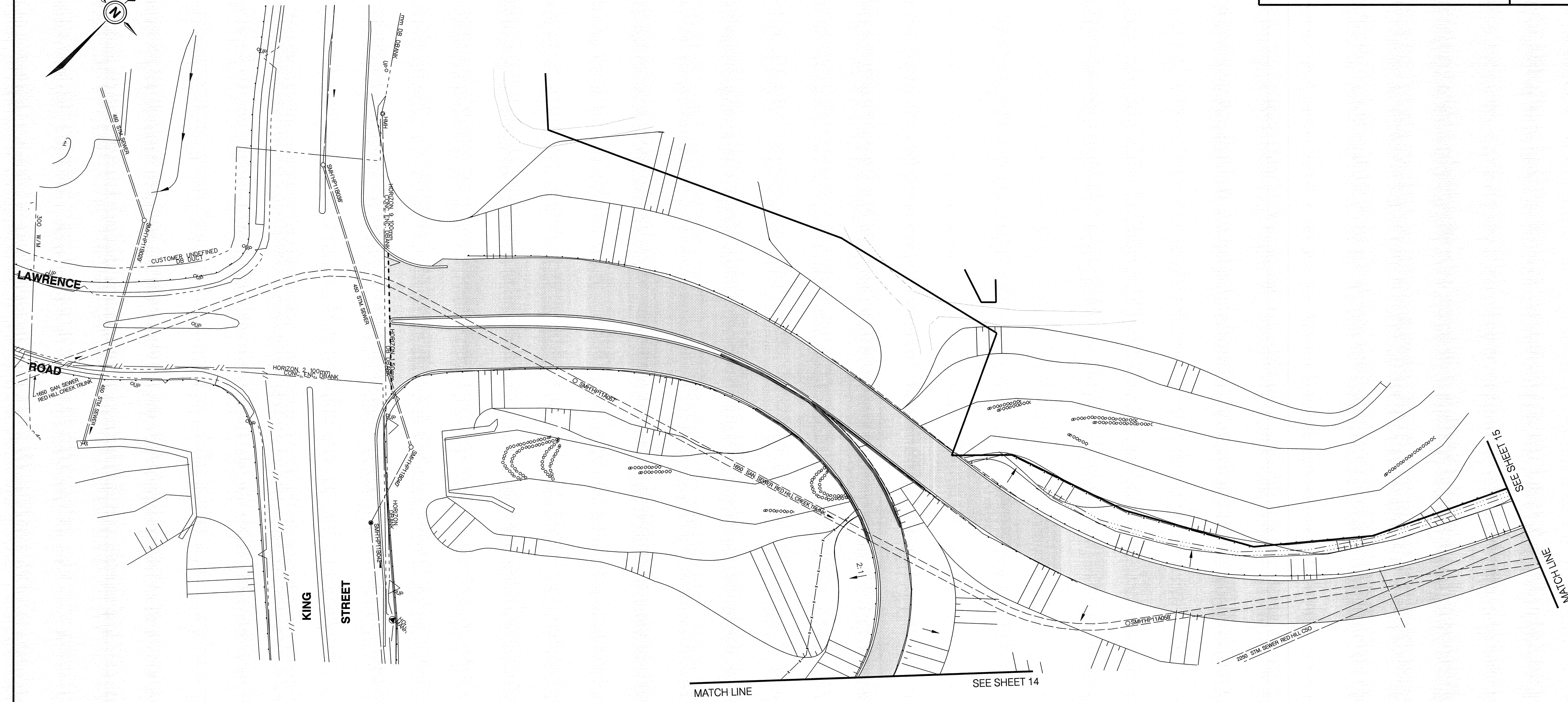
From : Mud Street Interchange
To : Queen Elizabeth Way

17-H-16 (16)

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H) DRAWING No. 17-H-16 (17)	SHEET No. 17 OF 25



LEGEND

MILL EXISTING ASPHALT 50mm DEPTH.
SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

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ACTIVITIES	
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Drawn Date:	27-04-17
Design By:	N.Z, T.B
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HORIZONTAL 1:500
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VERTICAL 1:100

Project Manager (Design)
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Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY

Road Resurfacing

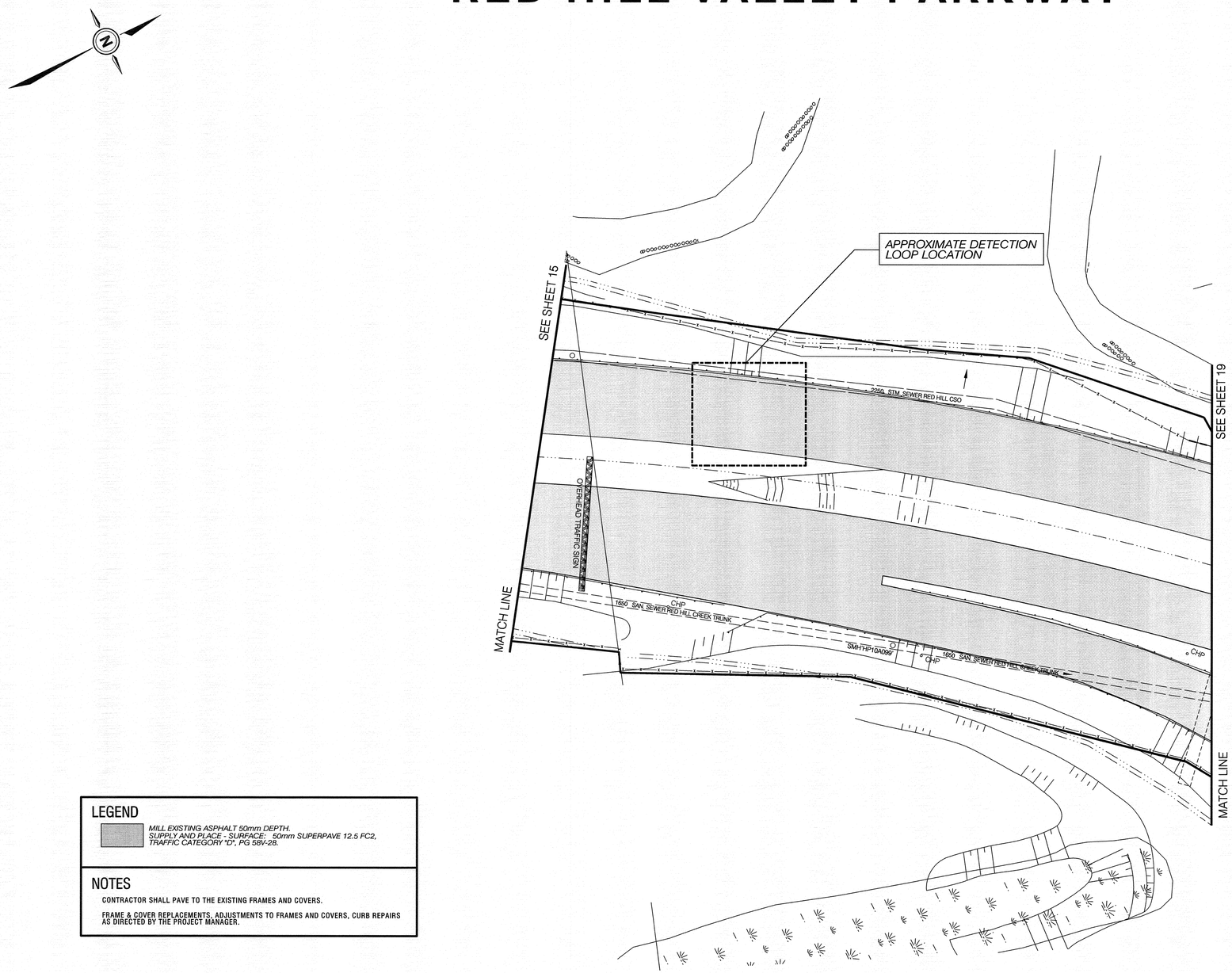
From : Mud Street Interchange
To : Queen Elizabeth Way

17-H-16 (17)

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)	SHEET No.
DRAWING No. 17-H-16 (18)	18 OF 25



LEGEND

MILL EXISTING ASPHALT 50mm DEPTH, SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

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No.	REVISIONS	INITIAL	DATE
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REFERENCE MATERIAL

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ACTIVITIES	
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Drawn Date:	15-05-17
Design By:	N.Z, T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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SCALES

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HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
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Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

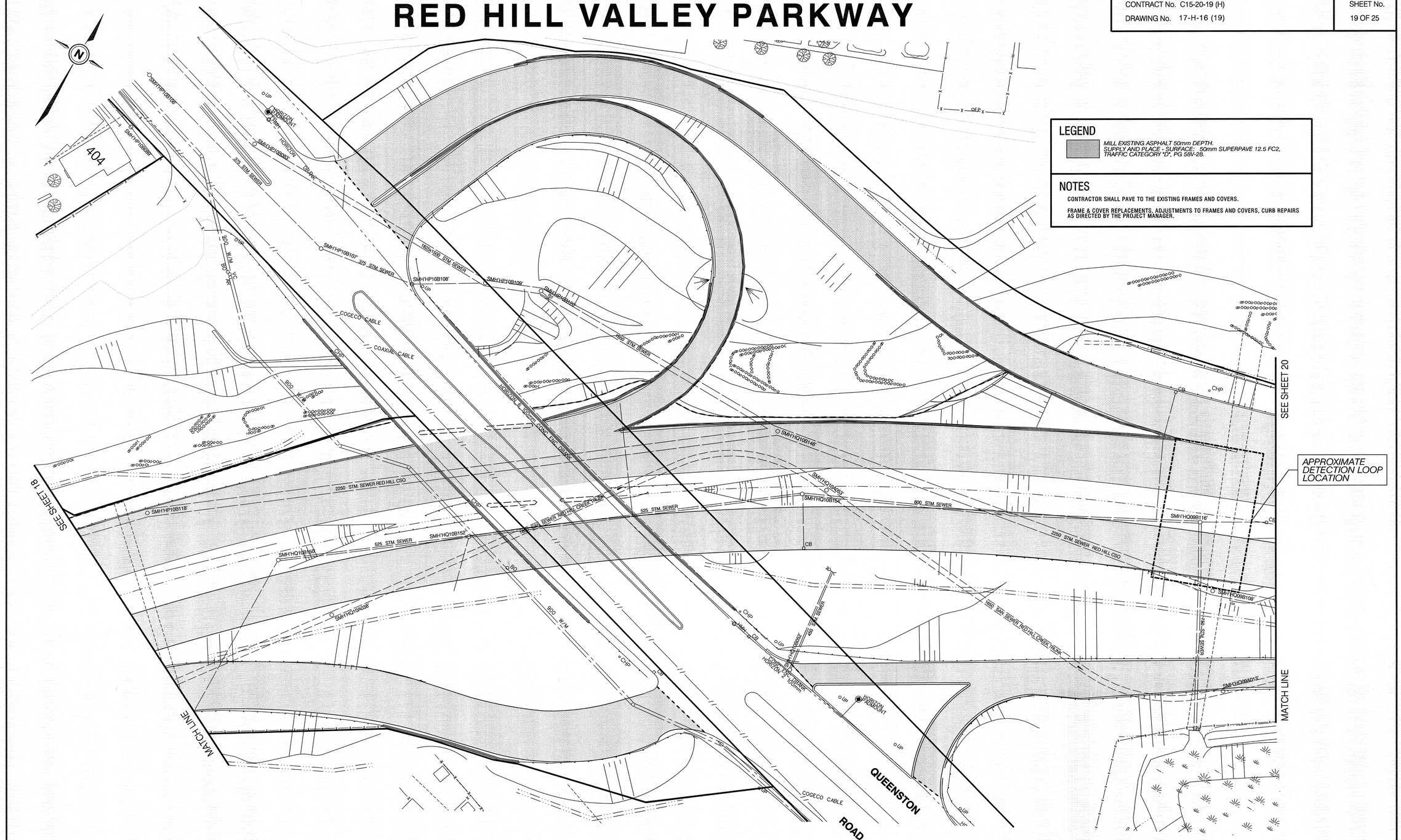
RED HILL VALLEY PARKWAY
Road Resurfacing
From : Mud Street Interchange
To : Queen Elizabeth Way

17-H-16 (18)

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)	SHEET No.
DRAWING No. 17-H-16 (19)	19 OF 25



LEGEND

MILL EXISTING ASPHALT 50mm DEPTH.
SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

FRAME & COVER REPLACEMENTS, ADJUSTMENTS TO FRAMES AND COVERS, CURB REPAIRS AS DIRECTED BY THE PROJECT MANAGER.

No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcil plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	15-05-17
Design By:	N.Z, T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
(D) information derived from existing records
(C) information obtained from field survey combined with (D) information
(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES

HORIZONTAL 1:500 (0, 5m, 10m, 20m)
VERTICAL 1:100 (0, 1m, 2m, 4m)

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY

Road Resurfacing

From : Mud Street Interchange
To : Queen Elizabeth Way

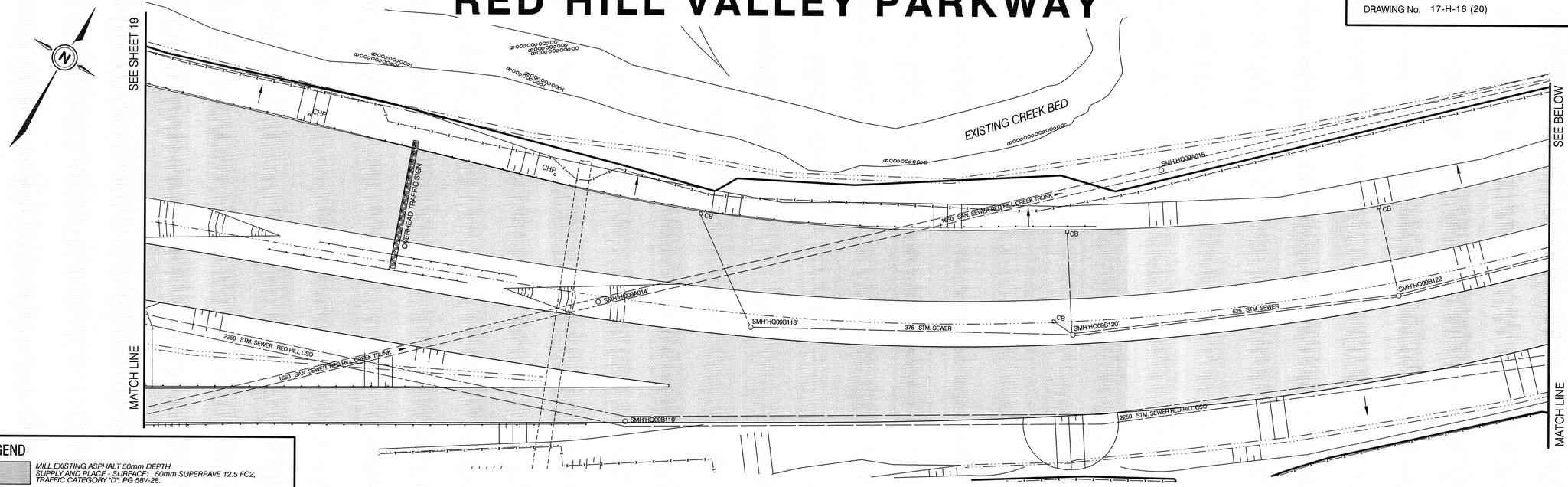
17-H-16 (19)

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (20)

SHEET No. 20 OF 25



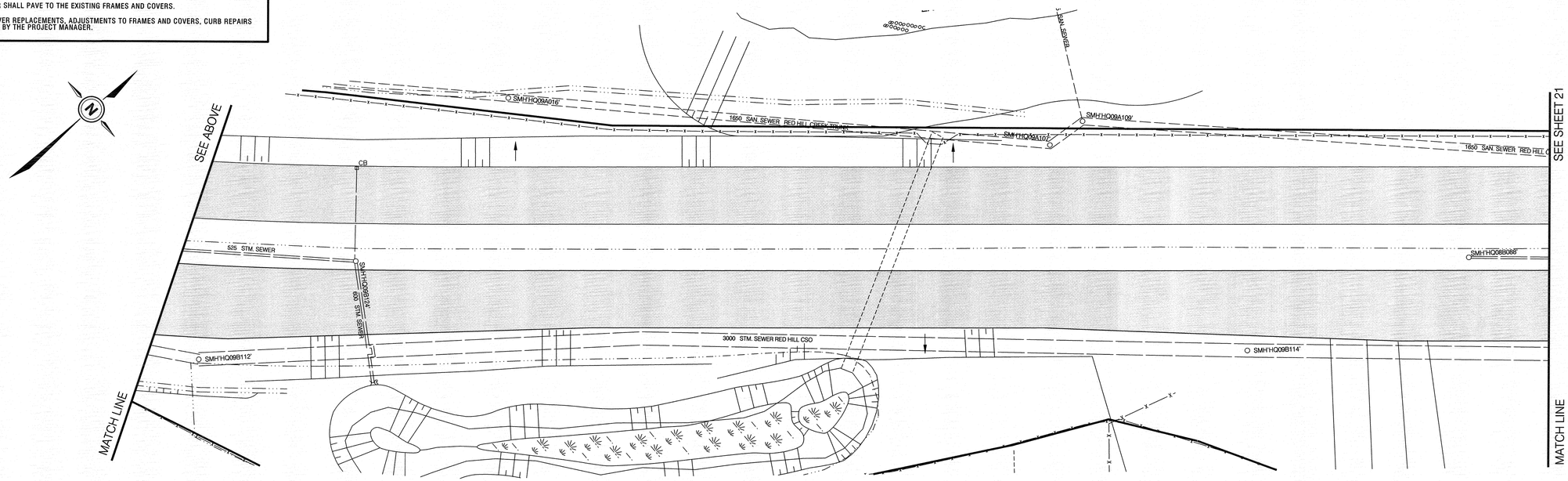
LEGEND

MILL EXISTING ASPHALT 50mm DEPTH.
SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2,
TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

FRAME & COVER REPLACEMENTS, ADJUSTMENTS TO FRAMES AND COVERS, CURB REPAIRS AS DIRECTED BY THE PROJECT MANAGER.



No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcil plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	15-05-17
Design By:	N.Z. T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
(D) information derived from existing records
(C) information obtained from field survey combined with (D) information
(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY

Road Resurfacing

From : Mud Street Interchange
To : Queen Elizabeth Way

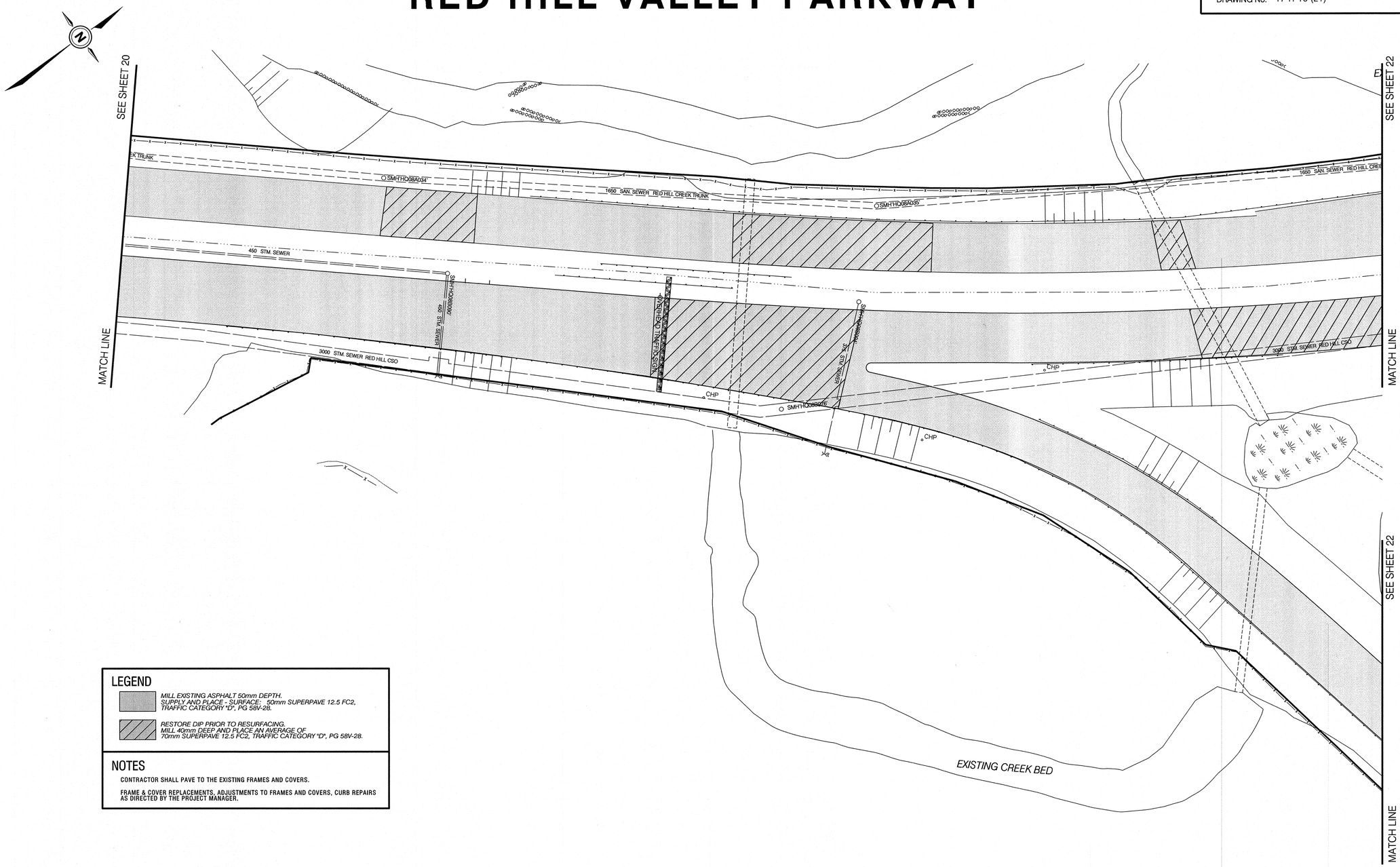
17-H-16 (20)

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (21)

SHEET No. 21 OF 25



LEGEND

MILL EXISTING ASPHALT 50mm DEPTH.
SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

RESTORE DIP PRIOR TO RESURFACING.
MILL 40mm DEEP AND PLACE AN AVERAGE OF 70mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

FRAME & COVER REPLACEMENTS, ADJUSTMENTS TO FRAMES AND COVERS, CURB REPAIRS AS DIRECTED BY THE PROJECT MANAGER.

No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcil plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	16-05-17
Design By:	N.Z, T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
(D) information derived from existing records
(C) information obtained from field survey combined with (D) information
(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.
Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY

Road Resurfacing

From : Mud Street Interchange
To : Queen Elizabeth Way

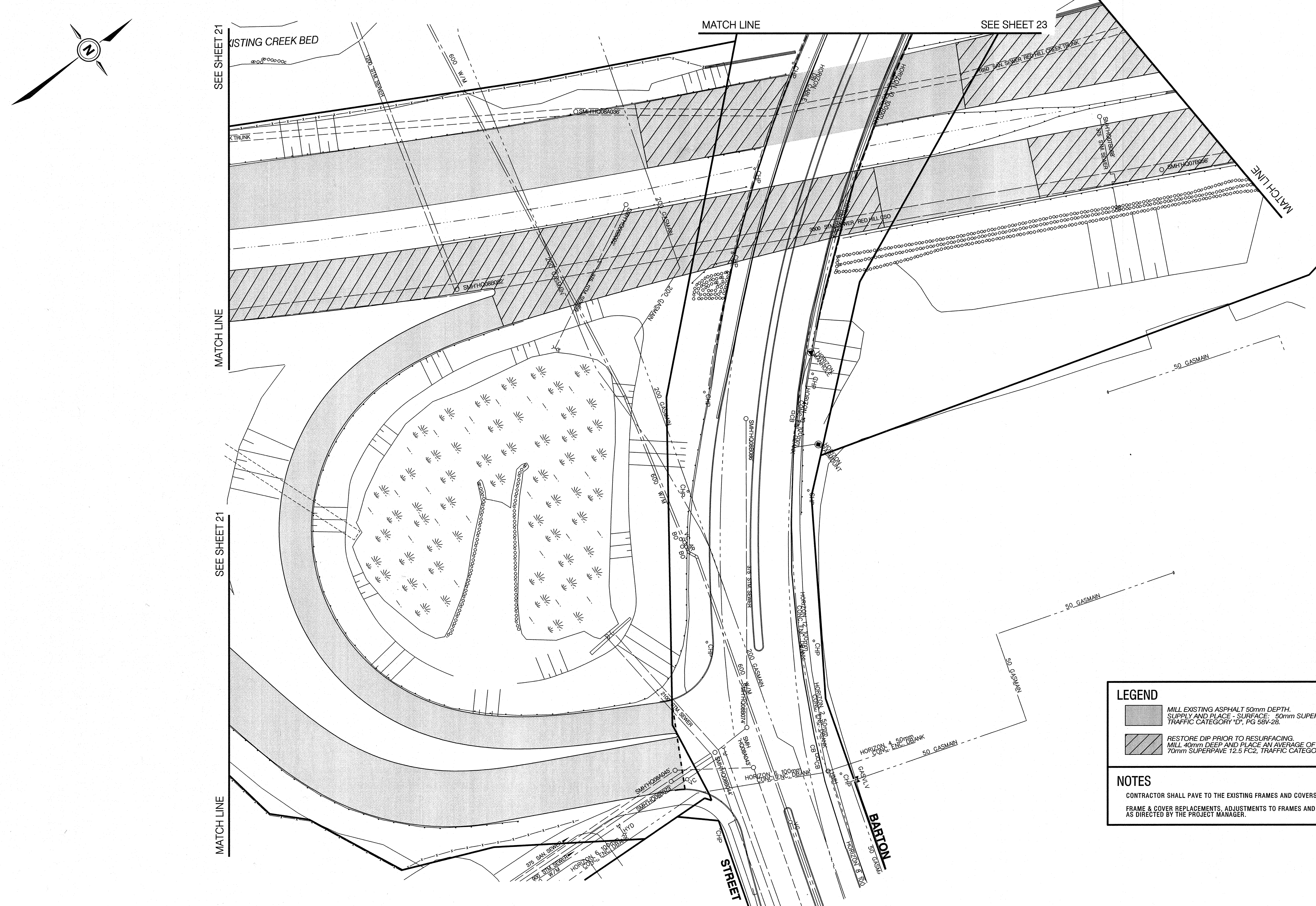
17-H-16 (21)

RED HILL VALLEY PARKWAY

17-H-16 (22)

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)	SHEET No.
DRAWING No. 17-H-16 (22)	22 OF 25



LEGEND

(grey fill)	*MILL EXISTING ASPHALT 50mm DEPTH. SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.*
(hatched fill)	*RESTORE DIP PRIOR TO RESURFACING. MILL 40mm DEEP AND PLACE AN AVERAGE OF 70mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.*

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

FRAME & COVER REPLACEMENTS, ADJUSTMENTS TO FRAMES AND COVERS, CURB REPAIRS AS DIRECTED BY THE PROJECT MANAGER.

No.	REVISIONS	INITIAL	DATE
⚠	No Revisions	initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcil plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	16-05-17
Design By:	N.Z, T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
(D) information derived from existing records
(C) information obtained from field survey combined with (D) information
(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m — HORIZONTAL 1:500
0 1m 2m 4m — VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY

Road Resurfacing

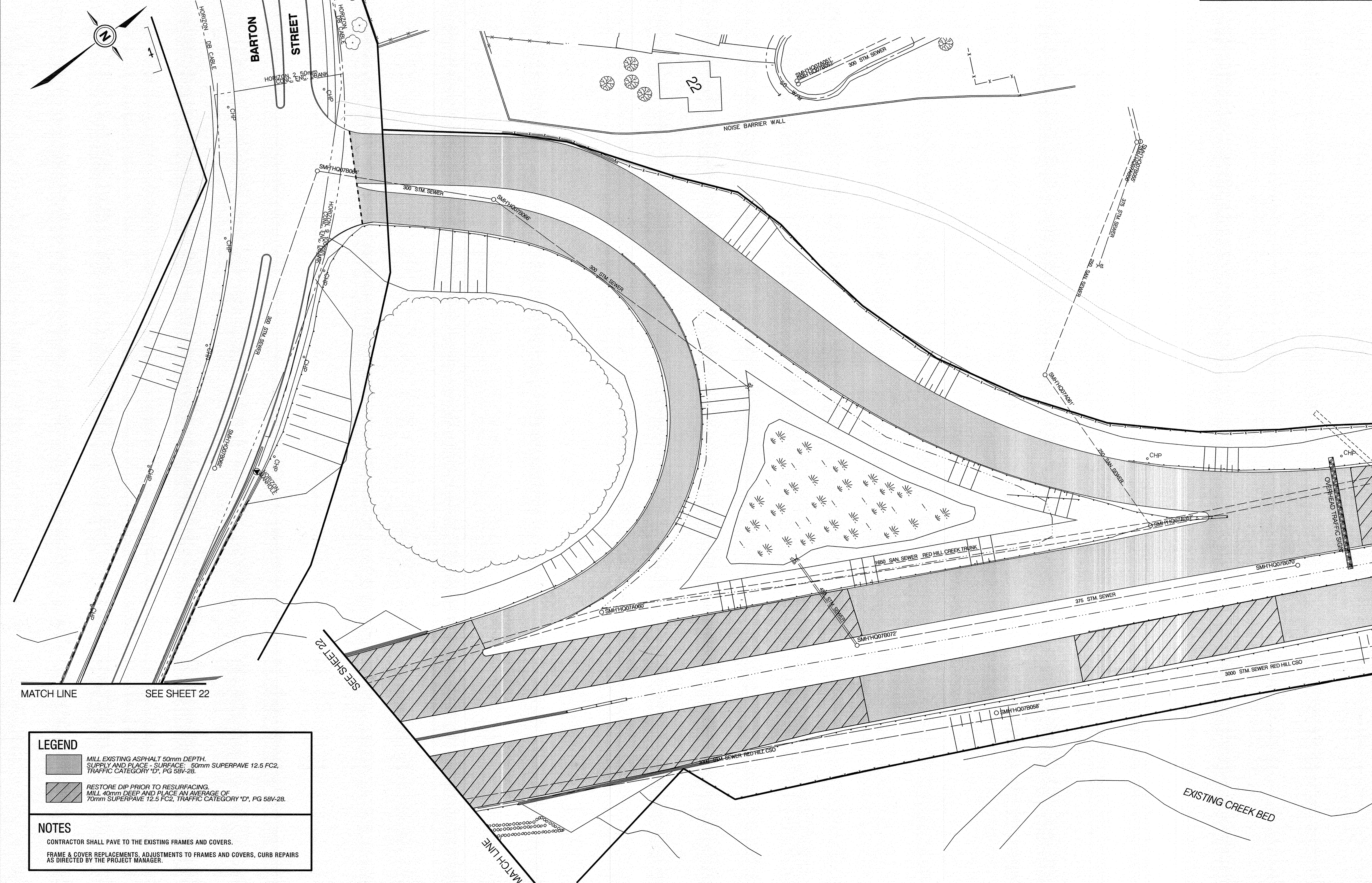
From : Mud Street Interchange
To : Queen Elizabeth Way

RED HILL VALLEY PARKWAY

17-H-16 (23)

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)	SHEET No.
DRAWING No. 17-H-16 (23)	23 OF 25



LEGEND

MILL EXISTING ASPHALT 50mm DEPTH. SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

RESTORE DIP PRIOR TO RESURFACING. MILL 40mm DEEP AND PLACE AN AVERAGE OF 70mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

FRAME & COVER REPLACEMENTS, ADJUSTMENTS TO FRAMES AND COVERS, CURB REPAIRS AS DIRECTED BY THE PROJECT MANAGER.

No.	REVISIONS	INITIAL	DATE
⚠	No Revisions	initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcil plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	16-05-17
Design By:	N.Z, T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
(D) information derived from existing records
(C) information obtained from field survey combined with (D) information
(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
(FOR)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY

Road Resurfacing

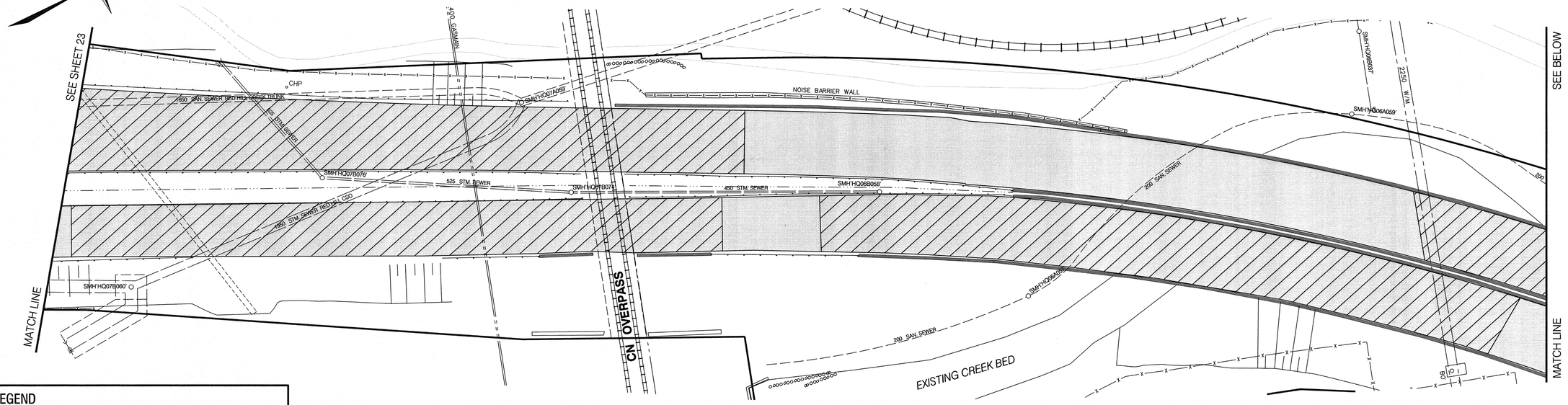
From : Mud Street Interchange
To : Queen Elizabeth Way

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (24)

SHEET No. 24 OF 25



LEGEND

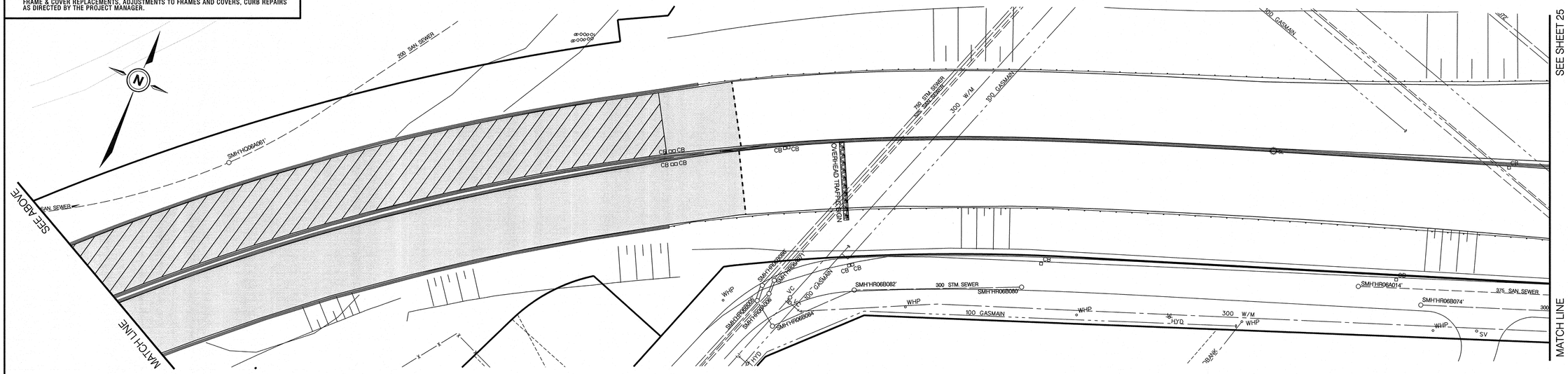
MILL EXISTING ASPHALT 50mm DEPTH. SUPPLY AND PLACE - SURFACE: 50mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

RESTORE DIP PRIOR TO RESURFACING. MILL 40mm DEEP AND PLACE AN AVERAGE OF 70mm SUPERPAVE 12.5 FC2, TRAFFIC CATEGORY "D", PG 58V-28.

NOTES

CONTRACTOR SHALL PAVE TO THE EXISTING FRAMES AND COVERS.

FRAME & COVER REPLACEMENTS, ADJUSTMENTS TO FRAMES AND COVERS, CURB REPAIRS AS DIRECTED BY THE PROJECT MANAGER.



No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcil plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	17-05-17
Design By:	N.Z, T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
(D) information derived from existing records
(C) information obtained from field survey combined with (D) information
(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY
Road Resurfacing
From : Mud Street Interchange
To : Queen Elizabeth Way

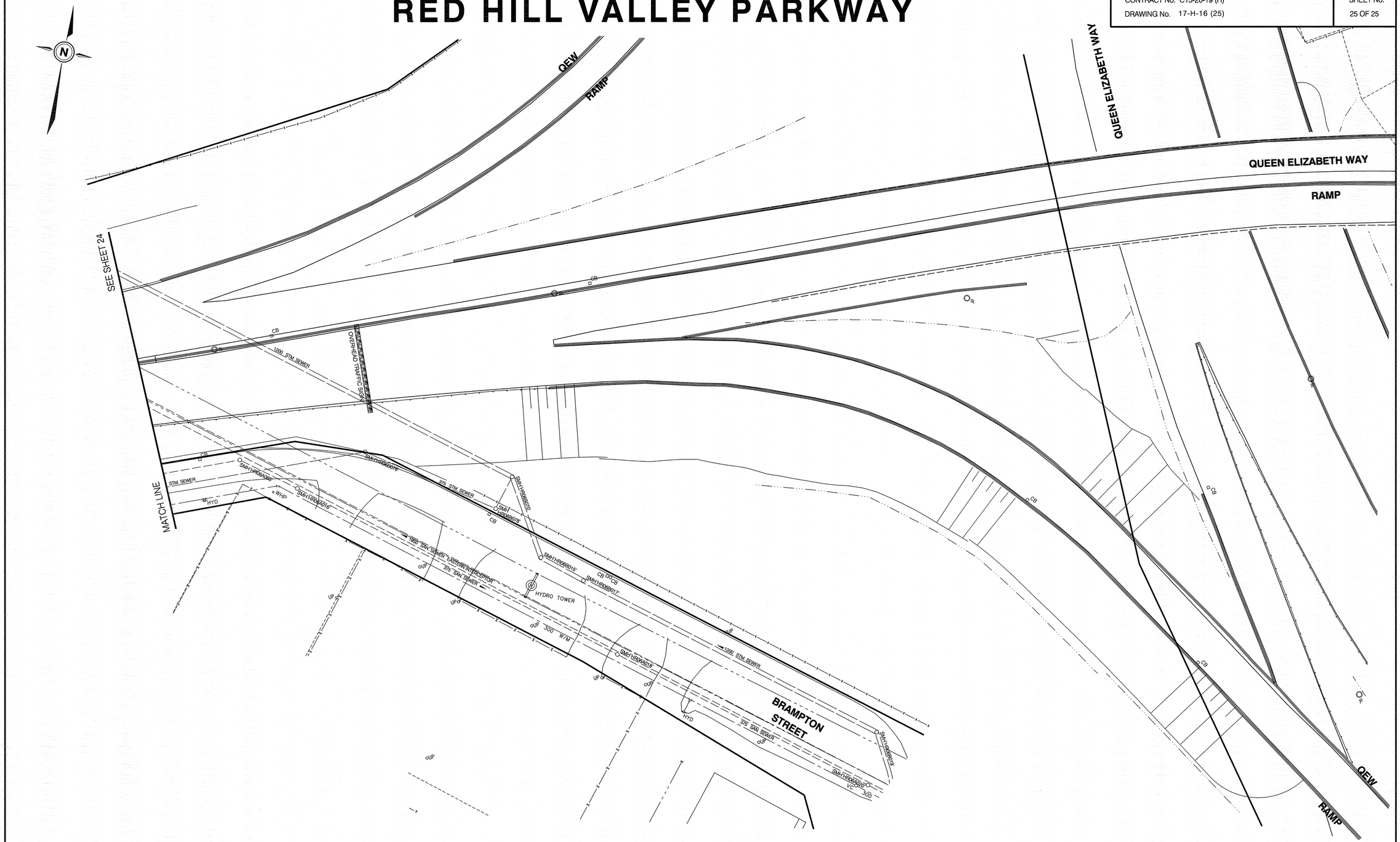
17-H-16 (24)

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (25)

SHEET No. 25 OF 25



No.	REVISIONS	INITIAL	DATE
1	No Revisions	Initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcil plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	17-05-17
Design By:	N.Z, T.B
Design Date:	01-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
(D) information derived from existing records
(C) information obtained from field survey combined with (D) information
(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY

Road Resurfacing

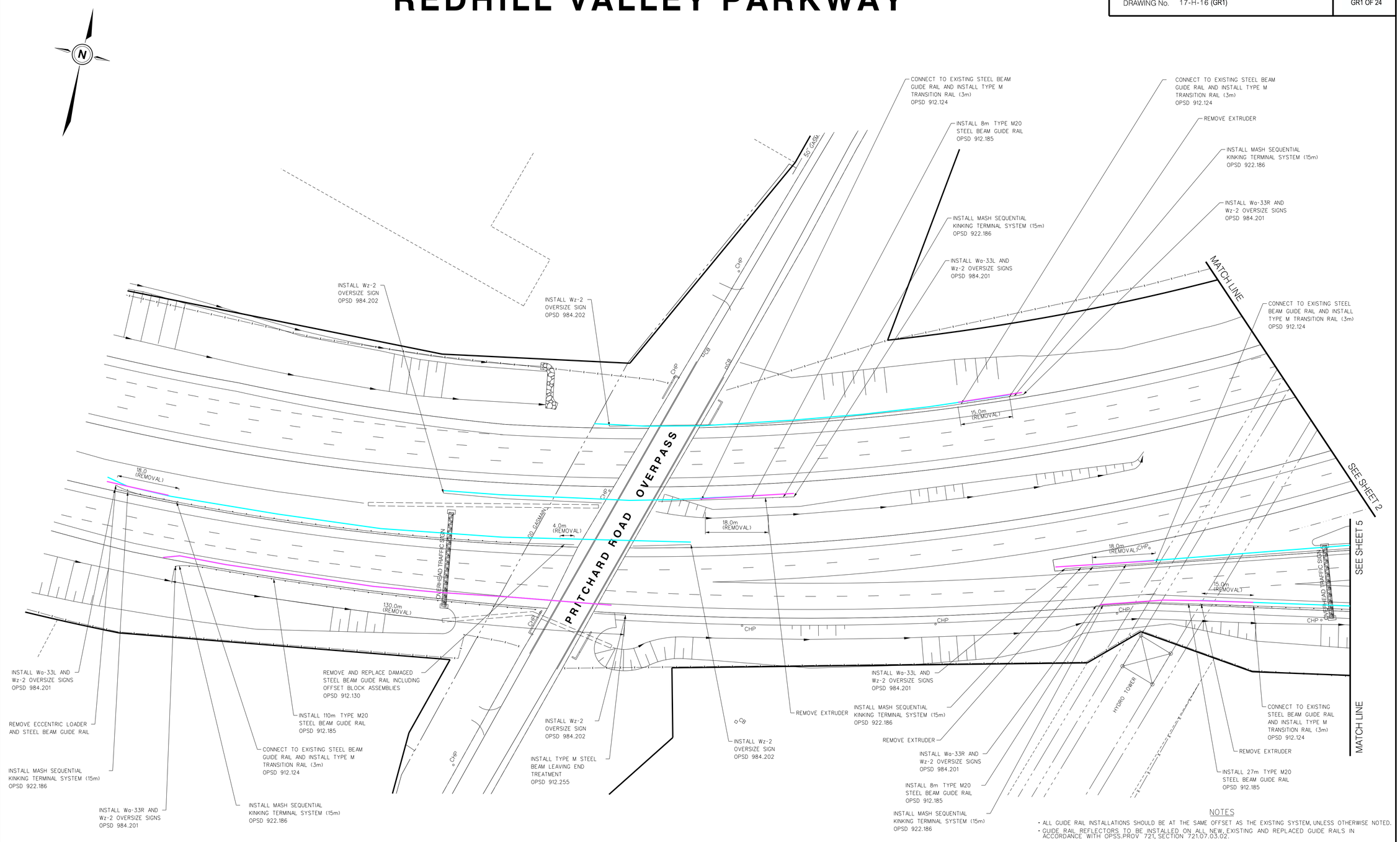
From : Mud Street Interchange
To : Queen Elizabeth Way

17-H-16 (25)

REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No.	C15-20-19 (H)	SHEET No.
DRAWING No.	17-H-16 (GR1)	GR1 OF 24



NOTES

- ALL GUIDE RAIL INSTALLATIONS SHOULD BE AT THE SAME OFFSET AS THE EXISTING SYSTEM, UNLESS OTHERWISE NOTED.
- GUIDE RAIL REFLECTORS TO BE INSTALLED ON ALL NEW, EXISTING AND REPLACED GUIDE RAILS IN ACCORDANCE WITH OPSS.PROV 721, SECTION 721.07.03.02.

No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcil plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z. T.B
Design Date:	28-01-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
(D) information derived from existing records
(C) information obtained from field survey combined with (D)information
(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY
Existing Condtions
From : Pritchard Road
To : Queen Elizabeth Way

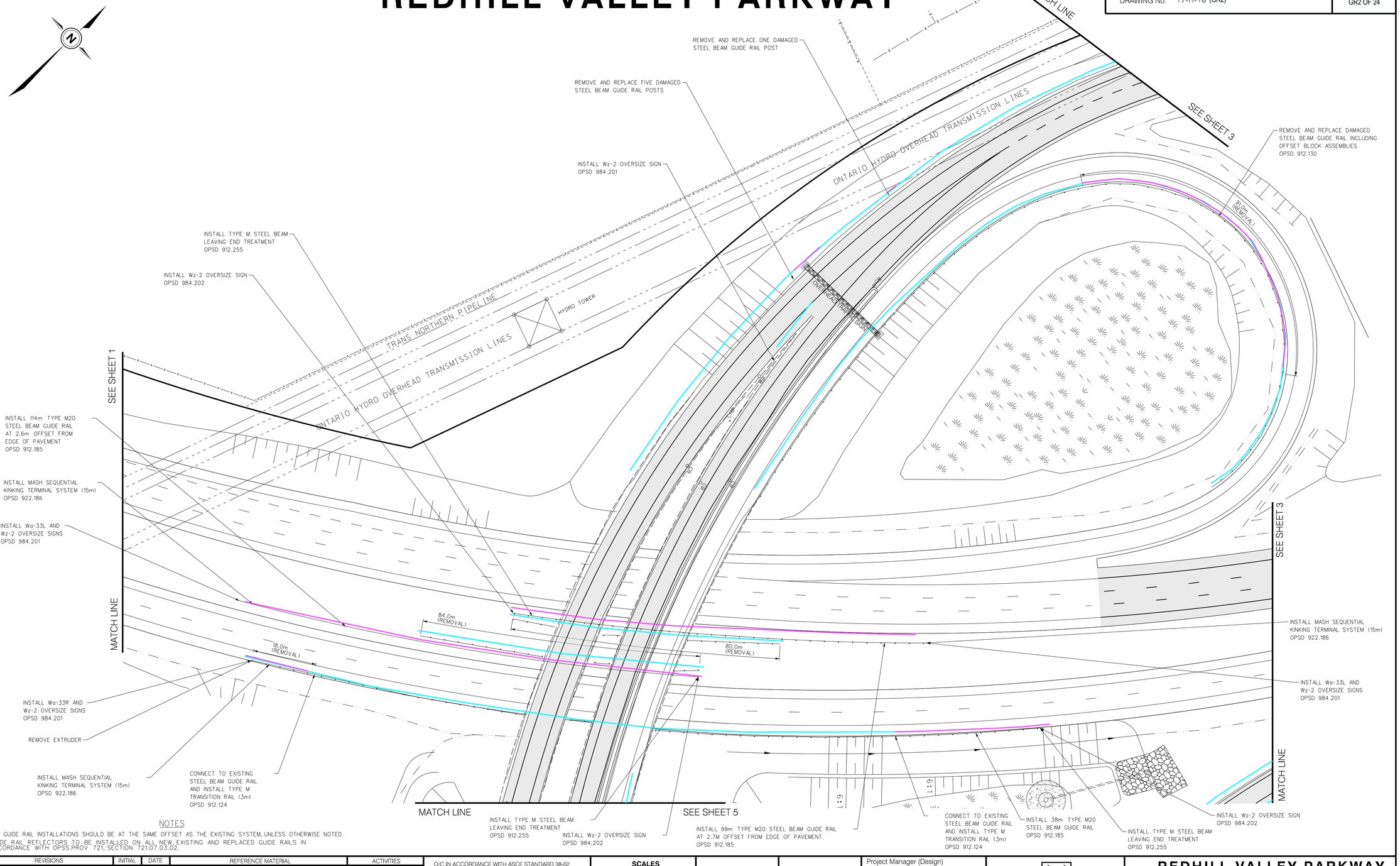
17-H-16 (GR1)

REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (GR2)

SHEET No. GR2 OF 24



NOTES

- ALL GUIDE RAIL INSTALLATIONS SHOULD BE AT THE SAME OFFSET AS THE EXISTING SYSTEM, UNLESS OTHERWISE NOTED.
- GUIDE RAIL REFLECTORS TO BE INSTALLED ON ALL NEW, EXISTING AND REPLACED GUIDE RAILS IN ACCORDANCE WITH OPSS.PROV 721, SECTION 721.07.03.02.

No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcil plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z, T.B
Design Date:	28-01-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
(D) information derived from existing records
(C) information obtained from field survey combined with (D) information
(B) Information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY
Existing Condtions
From : Pritchard Road
To : Queen Elizabeth Way

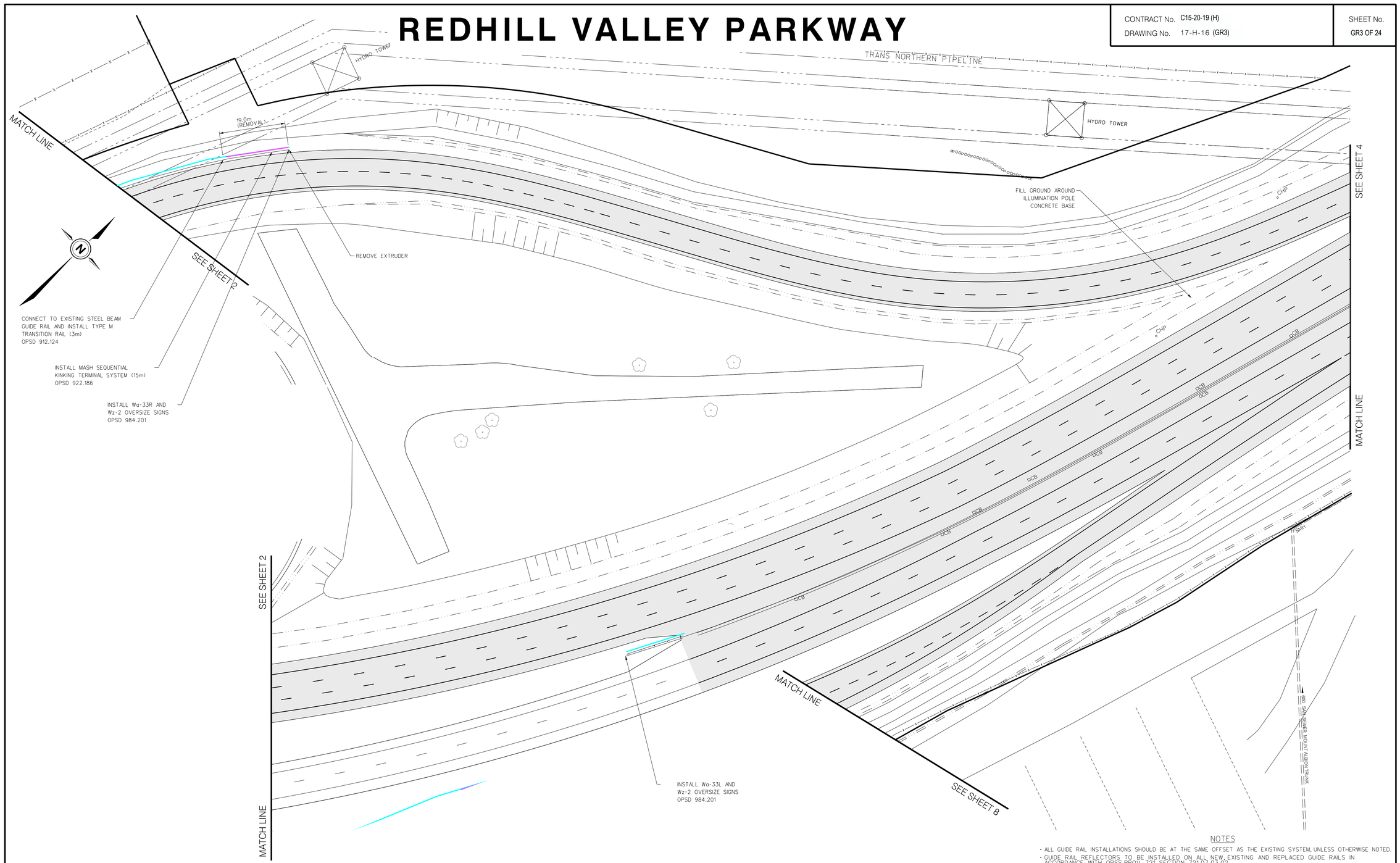
17-H-16 (GR2)

REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (GR3)

SHEET No. GR3 OF 24



NOTES

- ALL GUIDE RAIL INSTALLATIONS SHOULD BE AT THE SAME OFFSET AS THE EXISTING SYSTEM, UNLESS OTHERWISE NOTED.
- GUIDE RAIL REFLECTORS TO BE INSTALLED ON ALL NEW, EXISTING AND REPLACED GUIDE RAILS IN ACCORDANCE WITH OPSS.PROV 721, SECTION 721.07.03.02.

No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcil plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z. T.B
Design Date:	28-01-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
(D) information derived from existing records
(C) information obtained from field survey combined with (D) information
(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.
Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY

Existing Condtions

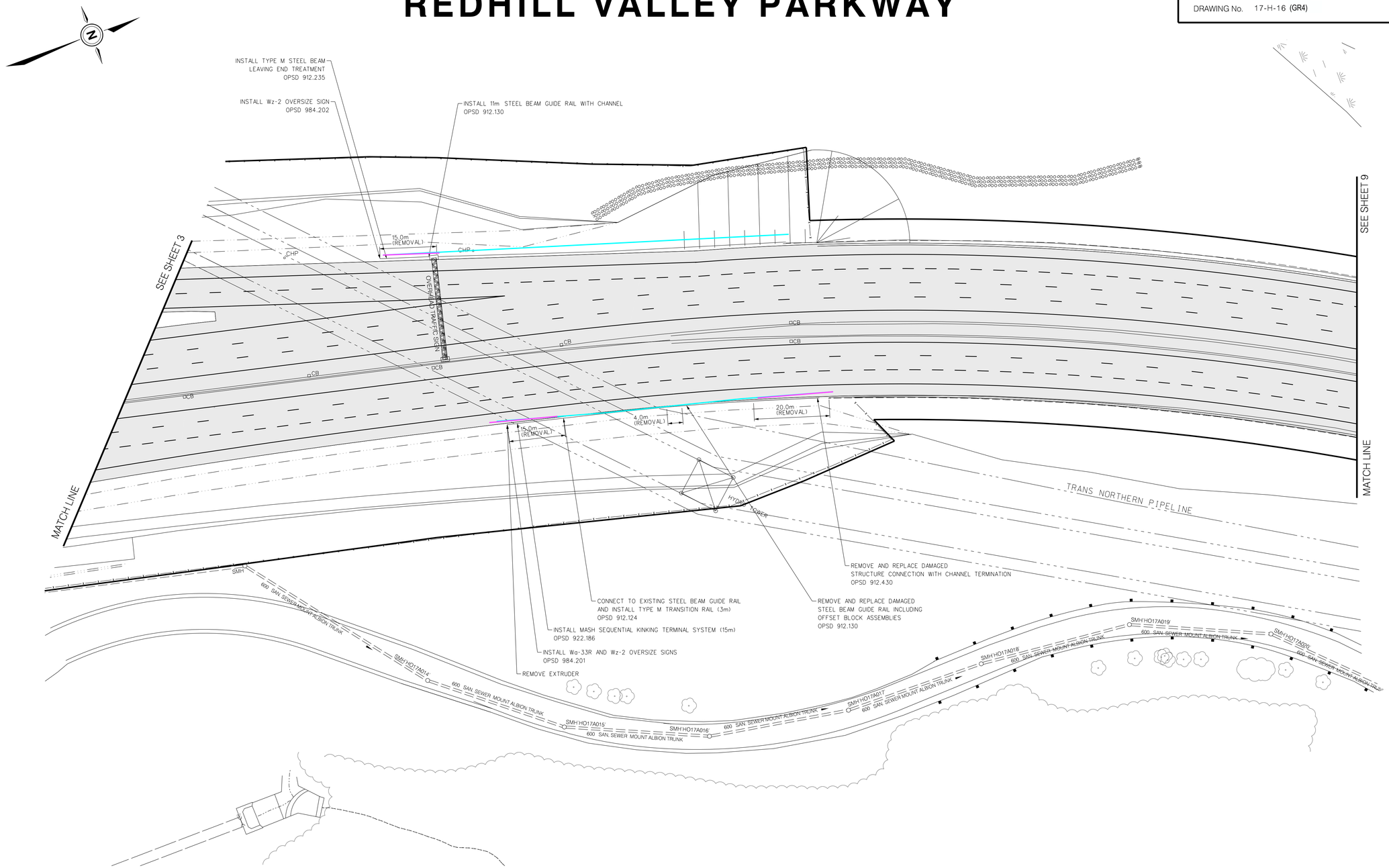
From : Pritchard Road
To : Queen Elizabeth Way

17-H-16 (GR3)

REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)	SHEET No.
DRAWING No. 17-H-16 (GR4)	GR4 OF 24



NOTES

- ALL GUIDE RAIL INSTALLATIONS SHOULD BE AT THE SAME OFFSET AS THE EXISTING SYSTEM, UNLESS OTHERWISE NOTED.
- GUIDE RAIL REFLECTORS TO BE INSTALLED ON ALL NEW, EXISTING AND REPLACED GUIDE RAILS IN ACCORDANCE WITH OPSS.PROV 721, SECTION 721.07.03.02.

No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcil plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z. T.B
Design Date:	28-01-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (B) unless otherwise noted.
(D) information derived from existing records
(C) information obtained from field survey combined with (D) information
(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
HORIZONTAL 1:500 (0, 5m, 10m, 20m)
VERTICAL 1:100 (0, 1m, 2m, 4m)

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

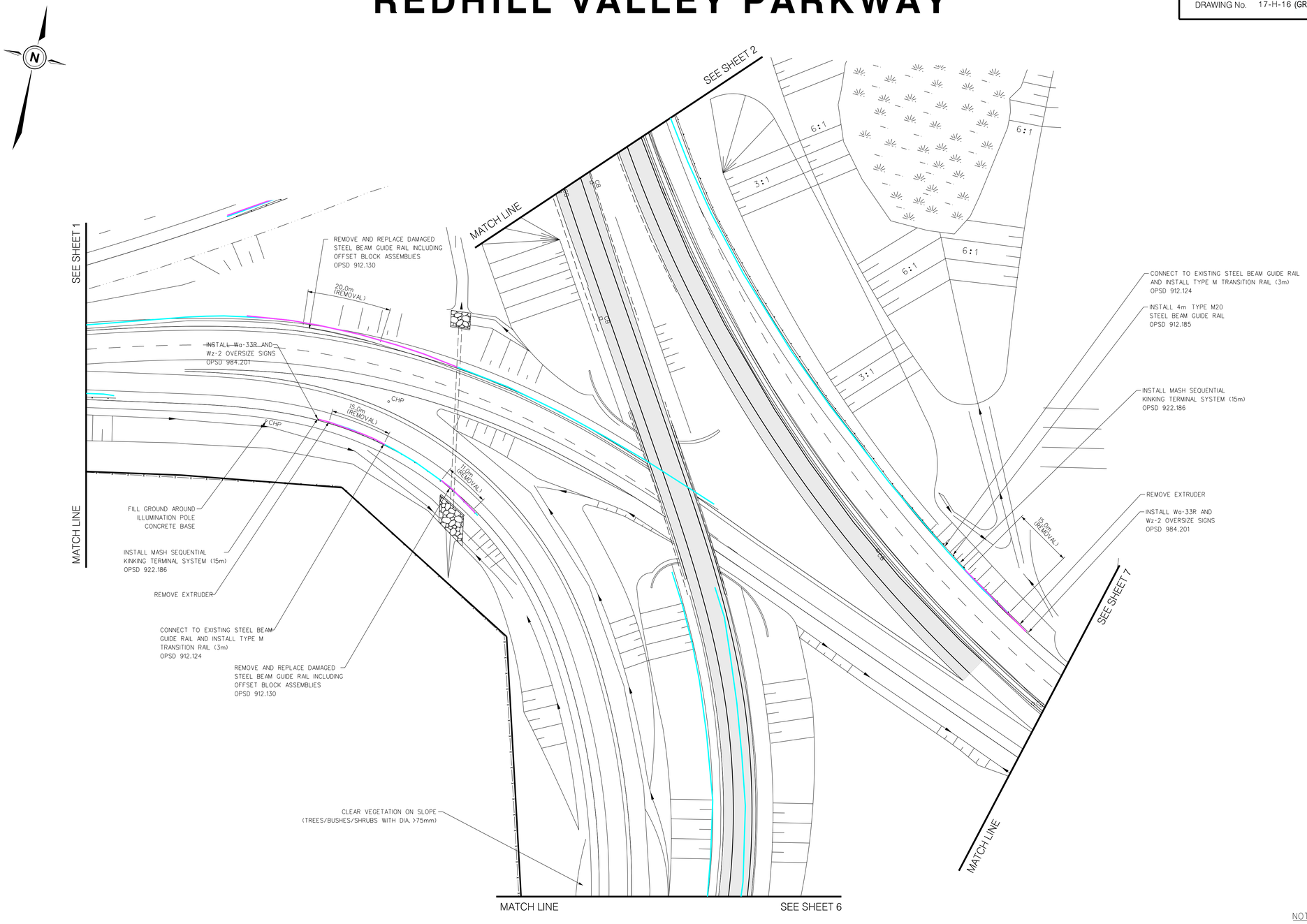
REDHILL VALLEY PARKWAY
Existing Condtions
From : Pritchard Road
To : Queen Elizabeth Way

17-H-16 (GR4)

REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)	SHEET No.
DRAWING No. 17-H-16 (GR5)	GR5 OF 24



NOTES

- ALL GUIDE RAIL INSTALLATIONS SHOULD BE AT THE SAME OFFSET AS THE EXISTING SYSTEM, UNLESS OTHERWISE NOTED.
- GUIDE RAIL REFLECTORS TO BE INSTALLED ON ALL NEW, EXISTING AND REPLACED GUIDE RAILS IN ACCORDANCE WITH OPSS.PROV 721, SECTION 721.07.03.02.

No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcel plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z. T.B
Design Date:	28-01-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
(D) information derived from existing records
(C) information obtained from field survey combined with (D) information
(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY

Existing Condtions

From : Pritchard Road
To : Queen Elizabeth Way

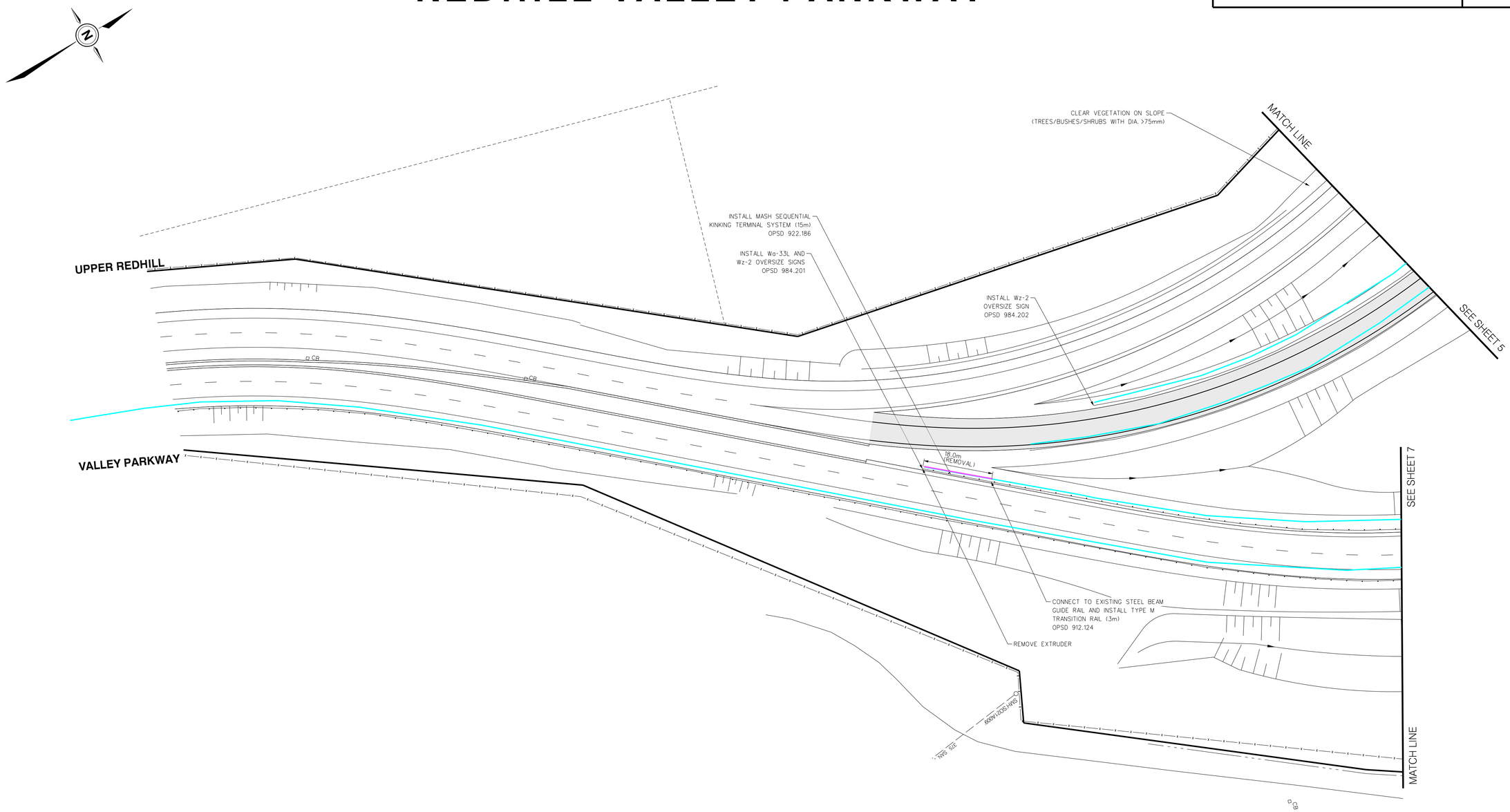
17-H-16 (GR5)

REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (GR6)

SHEET No. GR6 OF 24



NOTES

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No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcil plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z. T.B
Design Date:	28-01-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
(D) information derived from existing records
(C) information obtained from field survey combined with (D)information
(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY

Existing Condtions

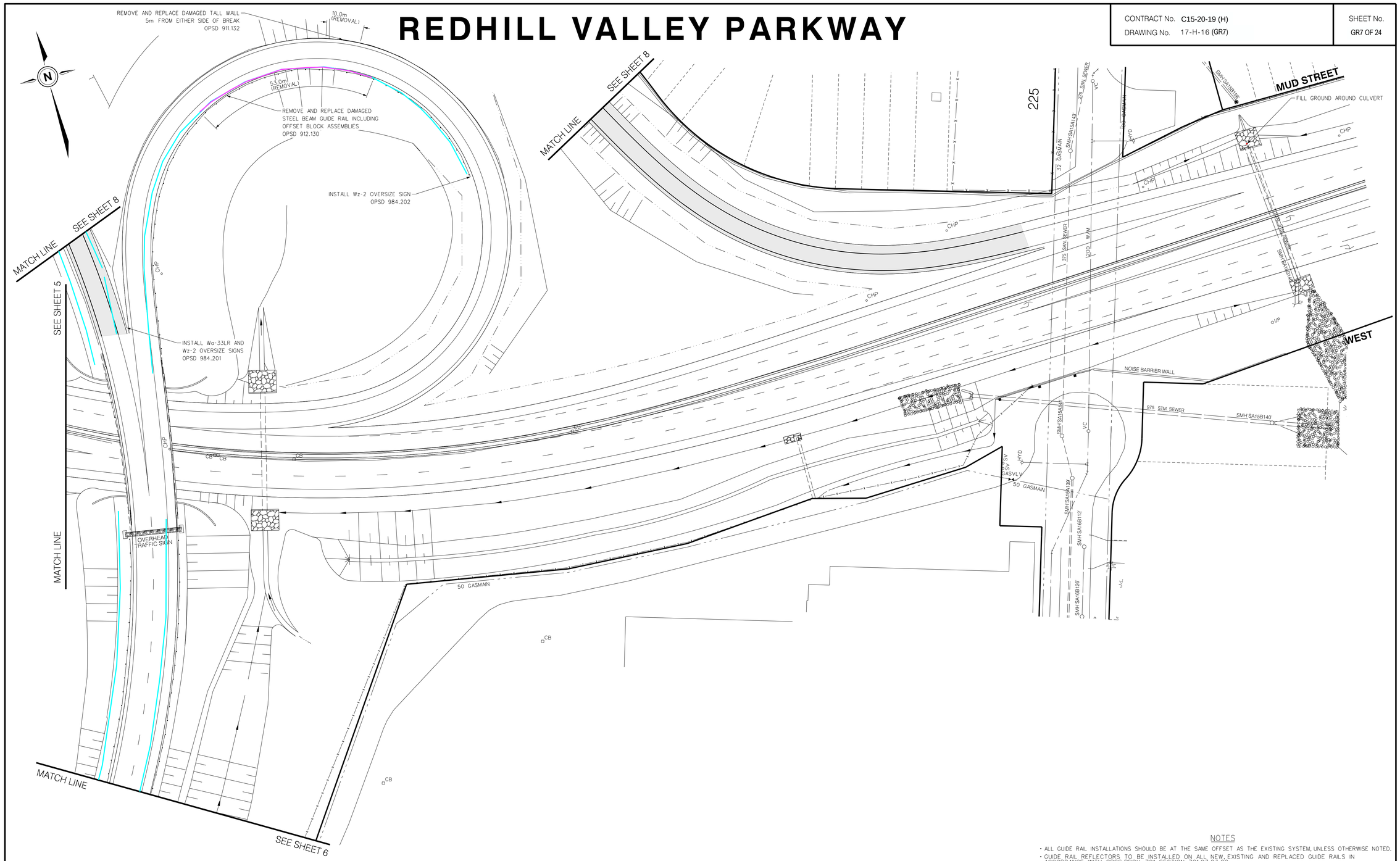
From : Pritchard Road
To : Queen Elizabeth Way

17-H-16(GR6)

REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)	SHEET No.
DRAWING No. 17-H-16 (GR7)	GR7 OF 24



NOTES

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No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

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REFERENCE MATERIAL

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Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z. T.B
Design Date:	28-01-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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(D) information derived from existing records
(C) information obtained from field survey combined with (D) information
(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY

Existing Condtions

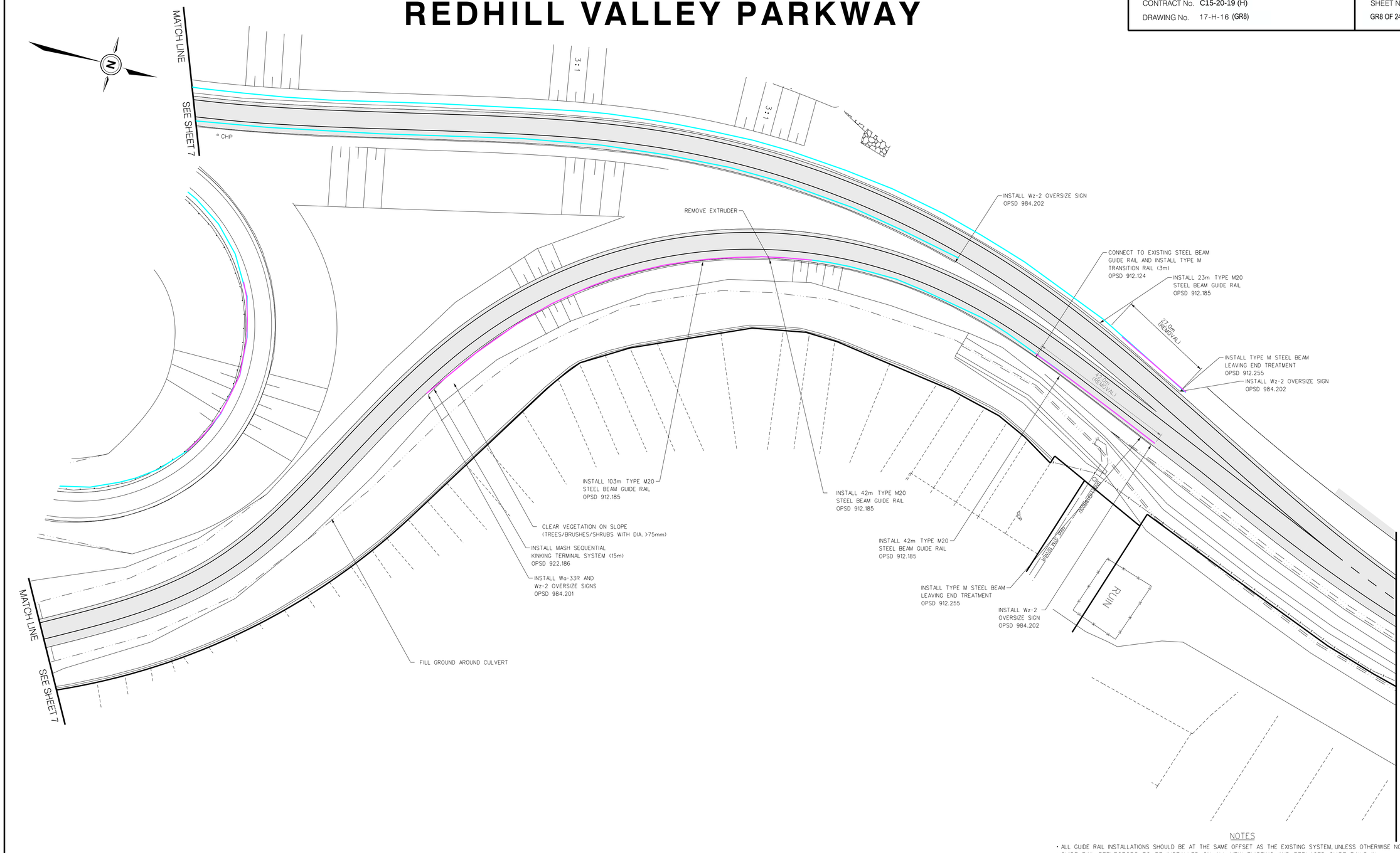
From : Pritchard Road
To : Queen Elizabeth Way

17-H-16(GR7)

REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)	SHEET No.
DRAWING No. 17-H-16 (GR8)	GR8 OF 24



NOTES

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No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcel plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	Initials
Drawn Date:	27-04-17
Design By:	N.Z. T.B
Design Date:	28-01-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
(D) information derived from existing records
(C) information obtained from field survey combined with (D) information
(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES

HORIZONTAL 1:500 (0, 5m, 10m, 20m)
VERTICAL 1:100 (0, 1m, 2m, 4m)

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY

Existing Condtions

From : Pritchard Road
To : Queen Elizabeth Way

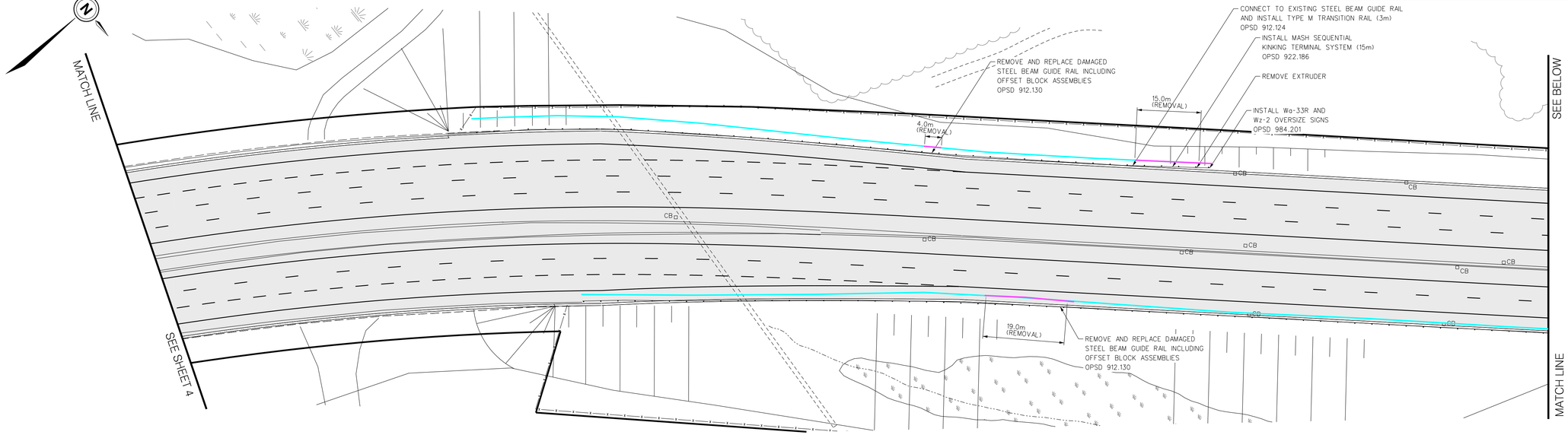
17-H-16 (GR8)

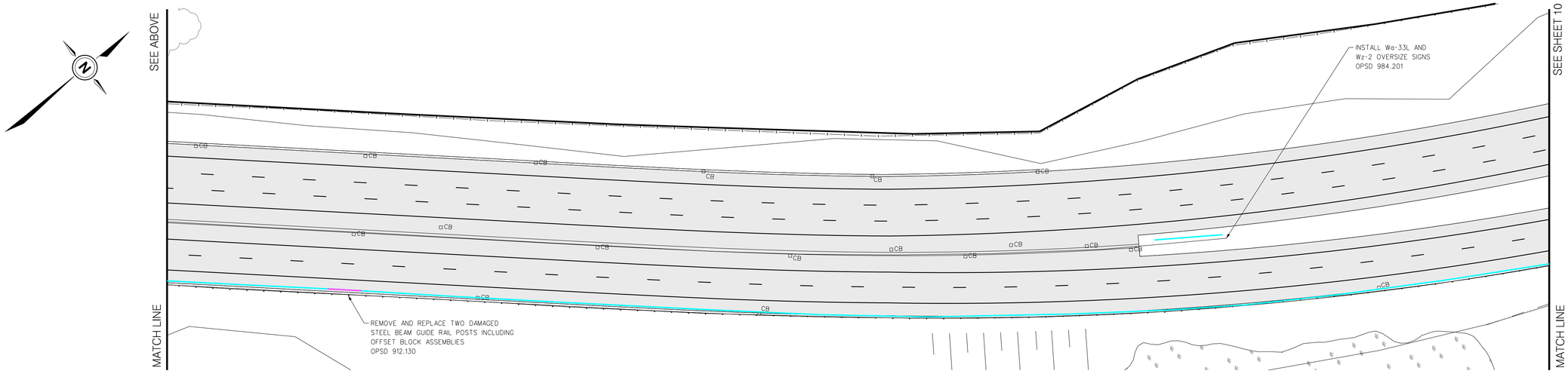
REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (GR9)

SHEET No.
GR9 OF 24





NOTES

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No.	REVISIONS	INITIAL	DATE
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REFERENCE MATERIAL

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Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S
Drawn Date:	27-04-17
Design By:	N.Z, T.B
Design Date:	28-01-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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(D) information derived from existing records
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SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY

Existing Condtions

From : Pritchard Road
To : Queen Elizabeth Way

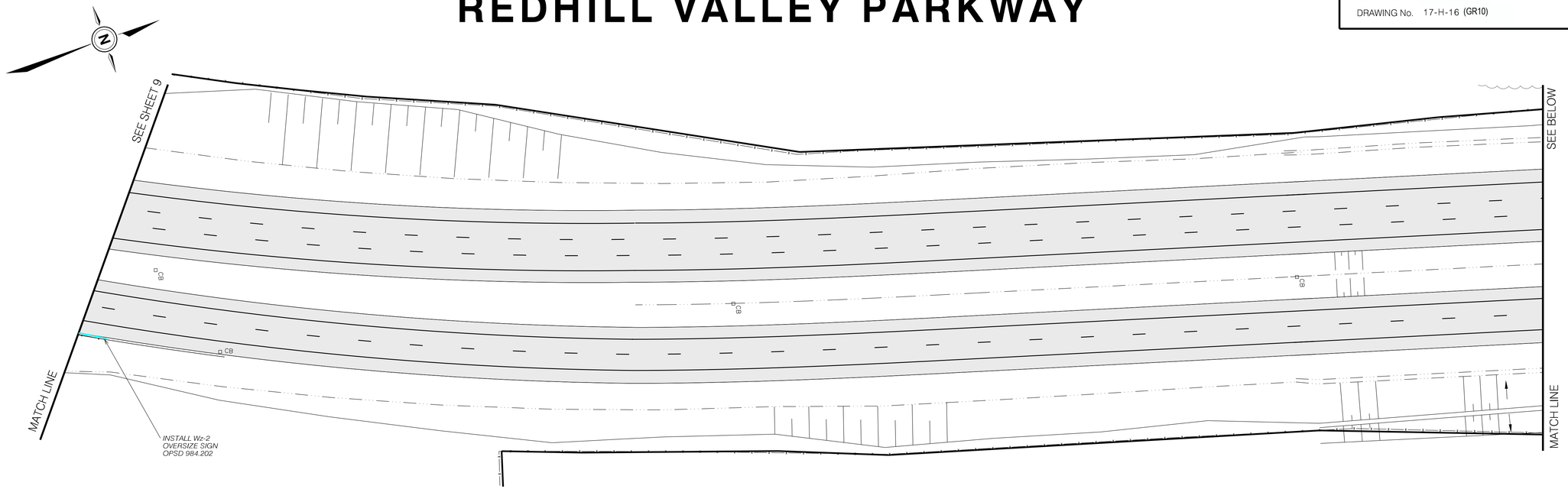
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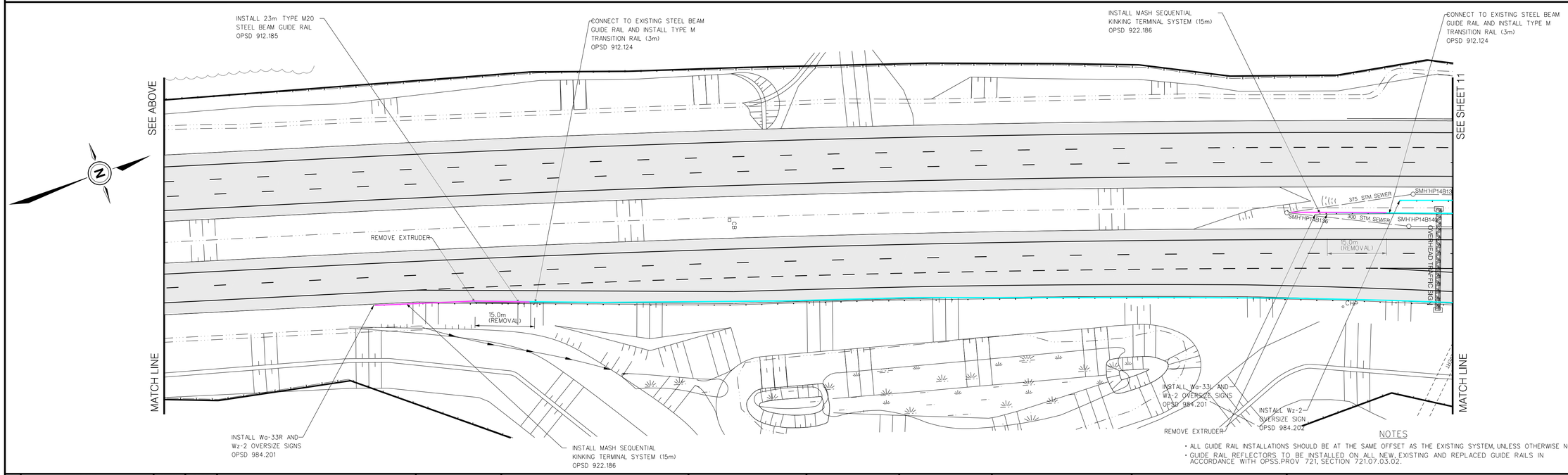
REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (GR10)

SHEET No.
GR10 OF 24





NOTES

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No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

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REFERENCE MATERIAL

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Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z. T.B
Design Date:	28-01-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (B) unless otherwise noted.
(D) information derived from existing records
(C) information obtained from field survey combined with (D) information
(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY

Existing Condtions

From : Pritchard Road
To : Queen Elizabeth Way

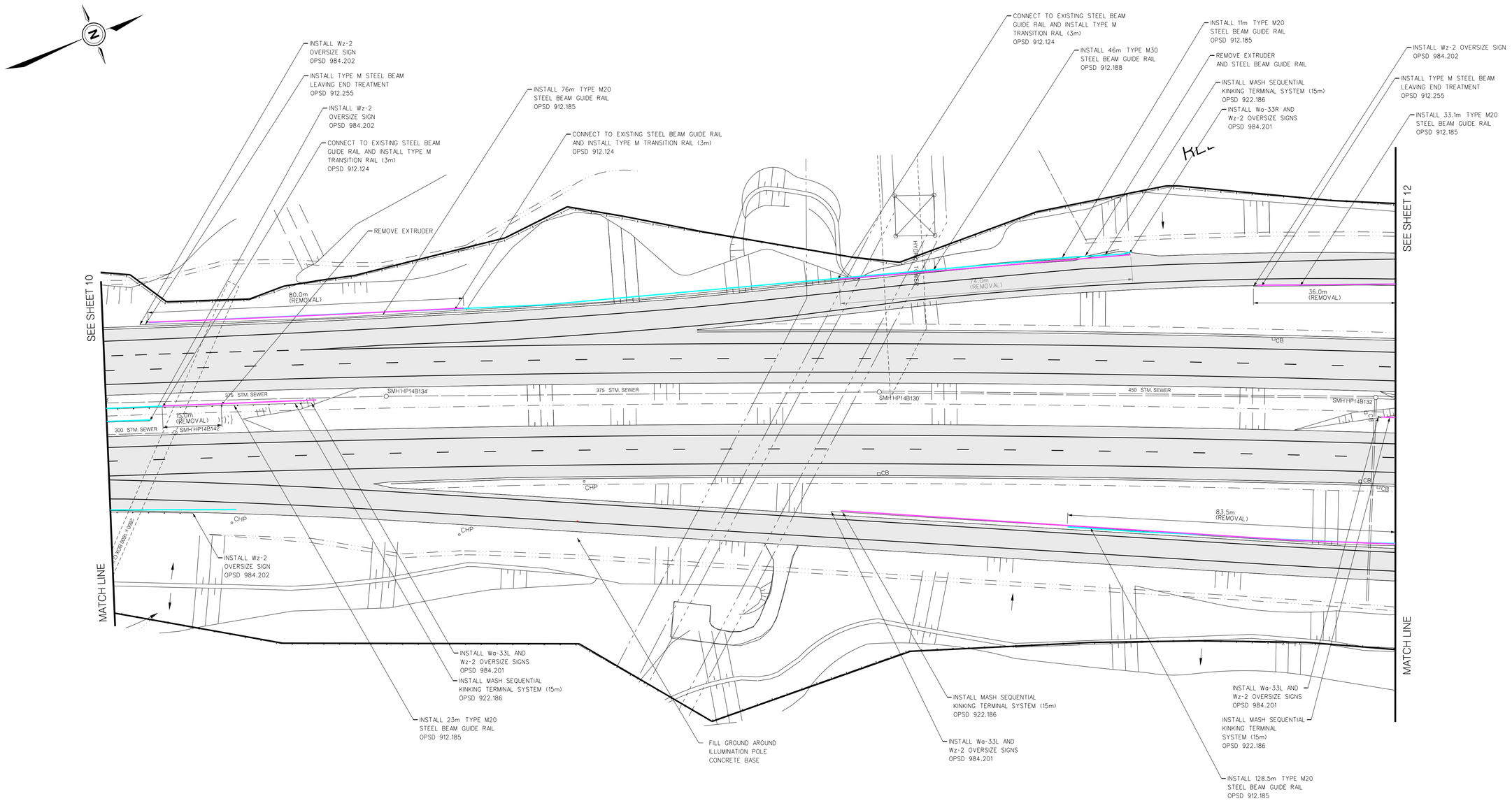
17-H-16 (GR10)

REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (GR11)

SHEET No. GR11 OF 24



NOTES

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No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

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ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z. T.B
Design Date:	28-01-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.
Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY
Existing Condtions
From : Pritchard Road
To : Queen Elizabeth Way

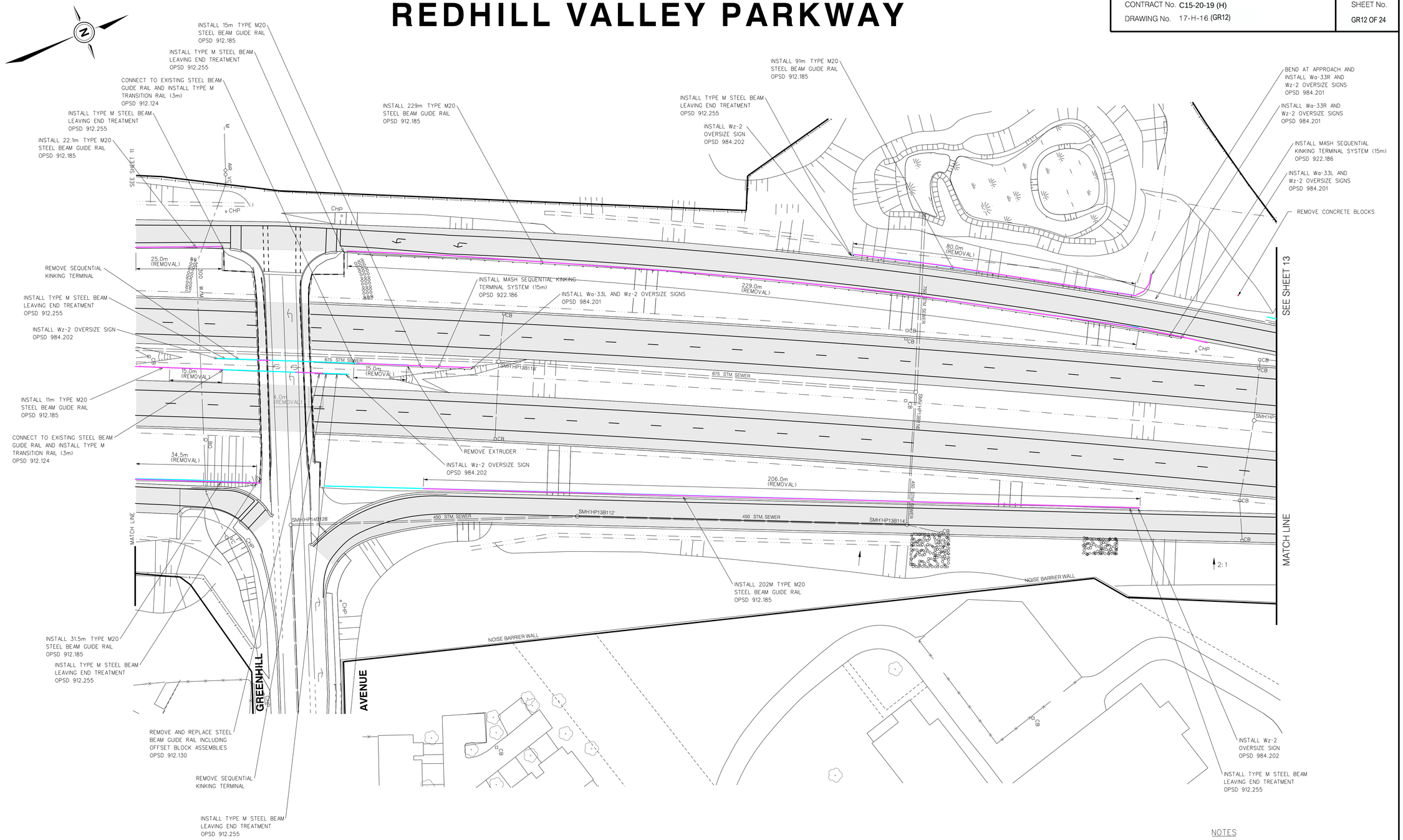
17-H-16 (GR11)

REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (GR12)

SHEET No. GR12 OF 24



NOTES

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No.	REVISIONS	INITIAL	DATE
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ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z. T.B
Design Date:	28-01-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
HORIZONTAL 1:500 (0, 5m, 10m, 20m)
VERTICAL 1:100 (0, 1m, 2m, 4m)

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY
Existing Condtions
From : Pritchard Road
To : Queen Elizabeth Way

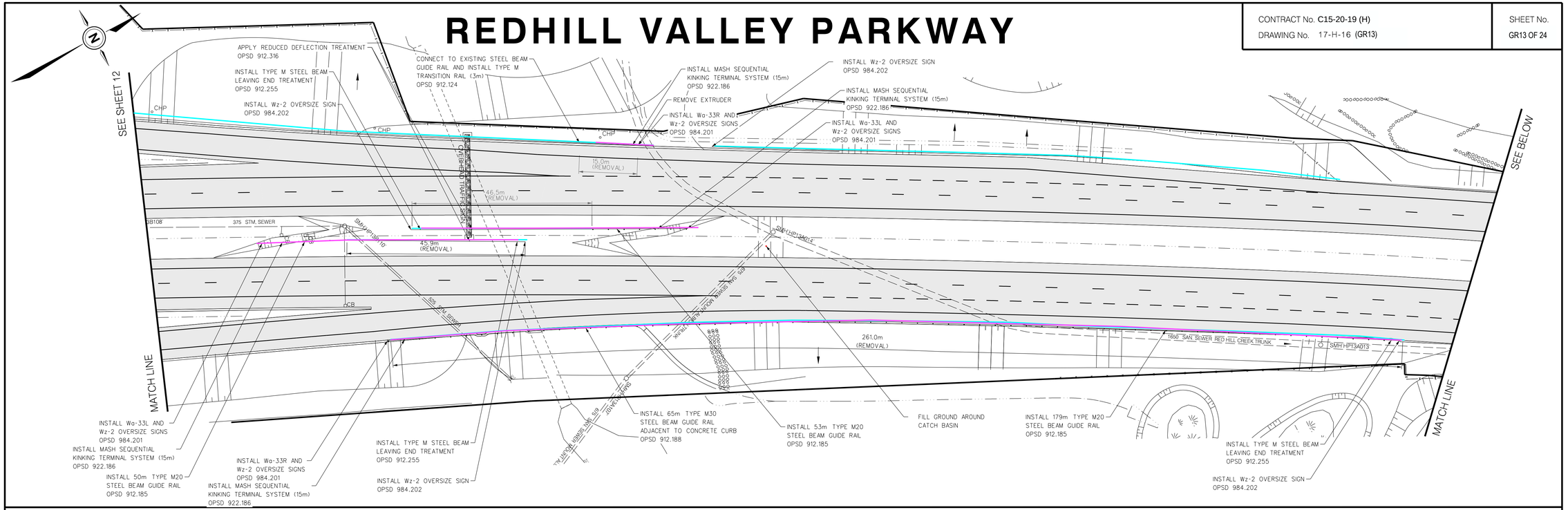
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REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (GR13)

SHEET No.
GR13 OF 24



NOTES

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ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z. T.B
Design Date:	28-01-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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SCALES
HORIZONTAL 1:500 (0, 5m, 10m, 20m)
VERTICAL 1:100 (0, 1m, 2m, 4m)

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY

Existing Condtions

From : Pritchard Road
To : Queen Elizabeth Way

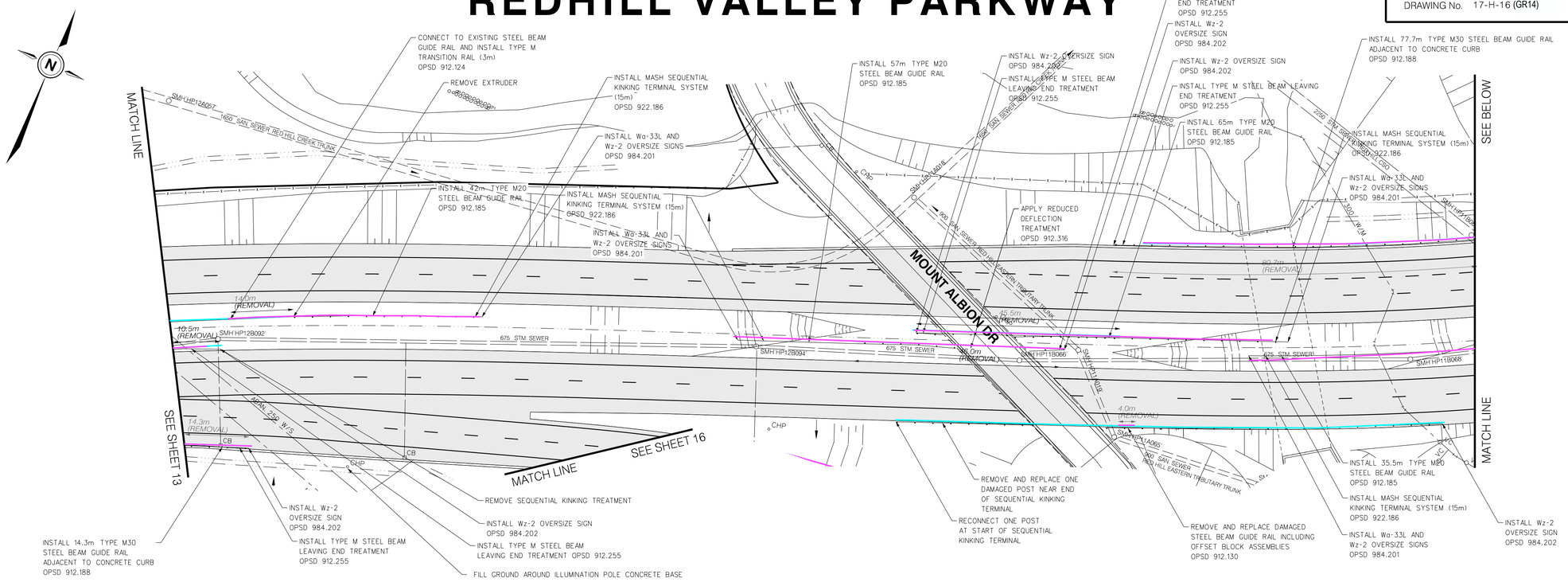
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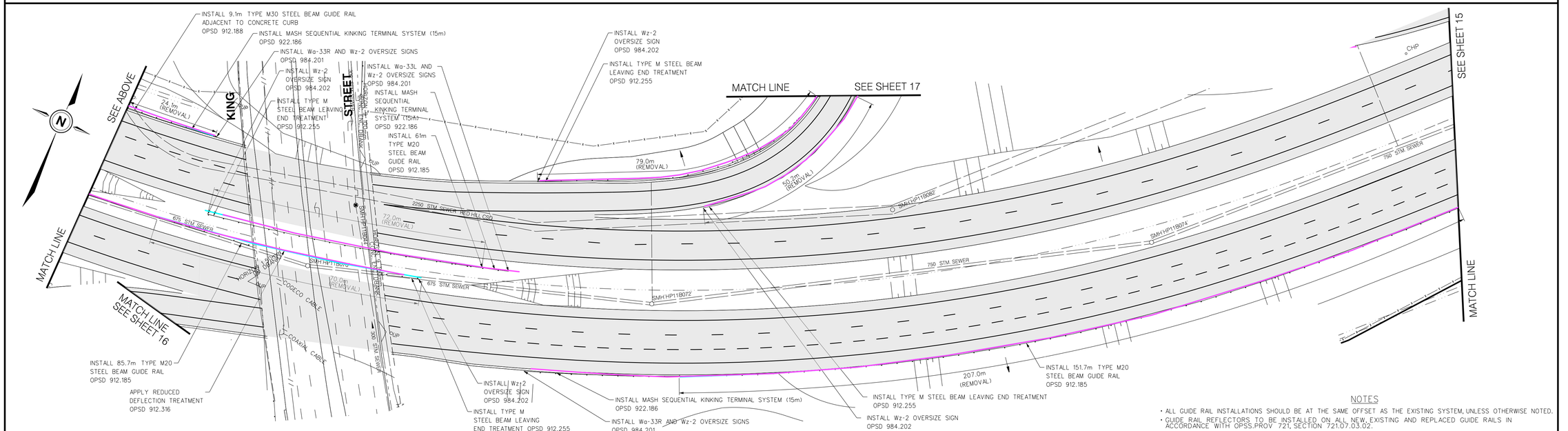
REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (GR14)

SHEET No. GR14 OF 24





NOTES

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ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z. T.B
Design Date:	28-01-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY
Existing Condtions
From : Pritchard Road
To : Queen Elizabeth Way

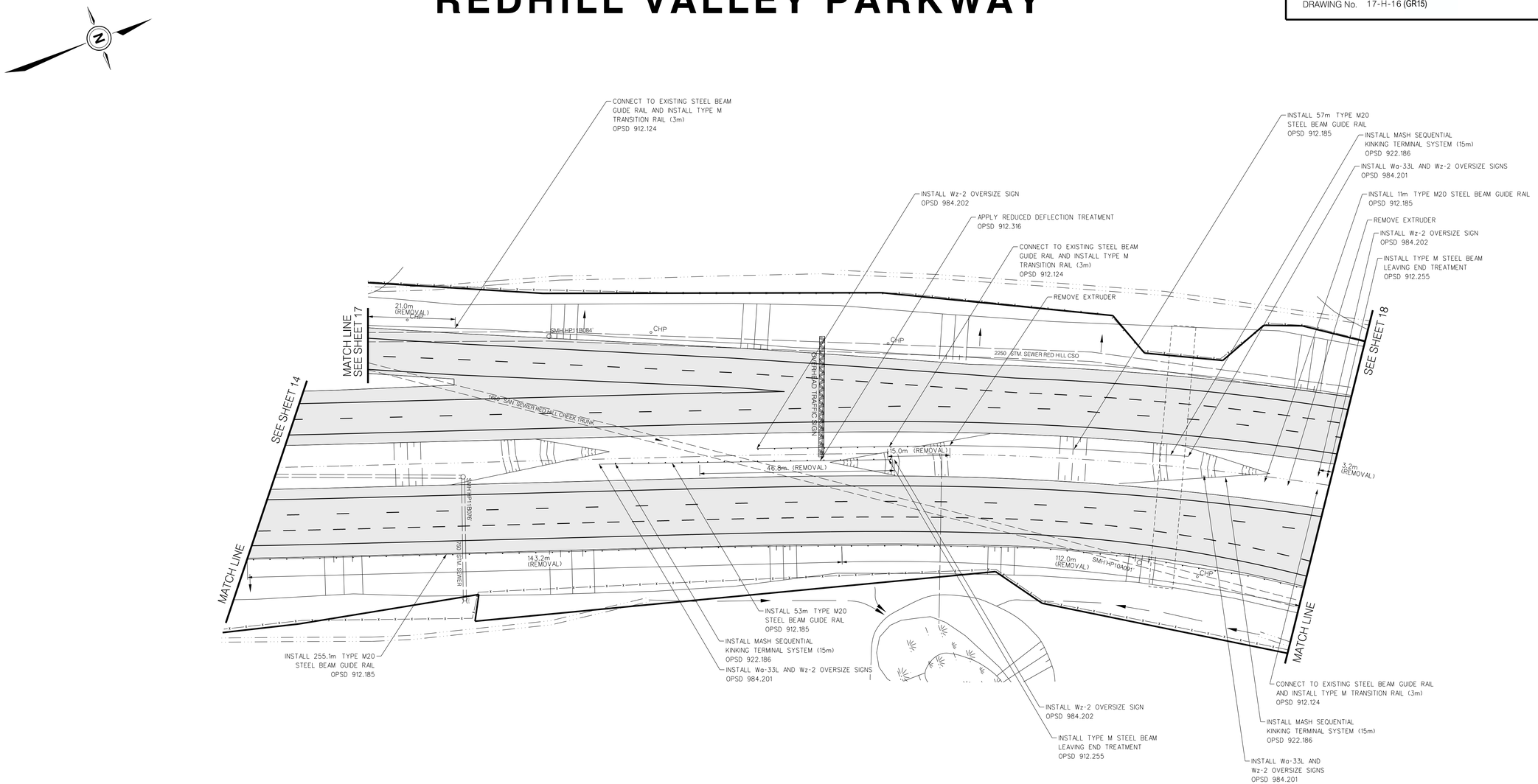
17-H-16 (GR14)

REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (GR15)

SHEET No. GR15 OF 24



NOTES

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No.	REVISIONS	INITIAL	DATE
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REFERENCE MATERIAL

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ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z, T.B
Design Date:	28-01-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.
Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY
Existing Condtions
From : Pritchard Road
To : Queen Elizabeth Way

17-H-16 (GR15)

REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (GR16)

SHEET No. GR16 OF 24



NOTES

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ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z. T.B
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(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
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Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY
Existing Condtions
From : Pritchard Road
To : Queen Elizabeth Way

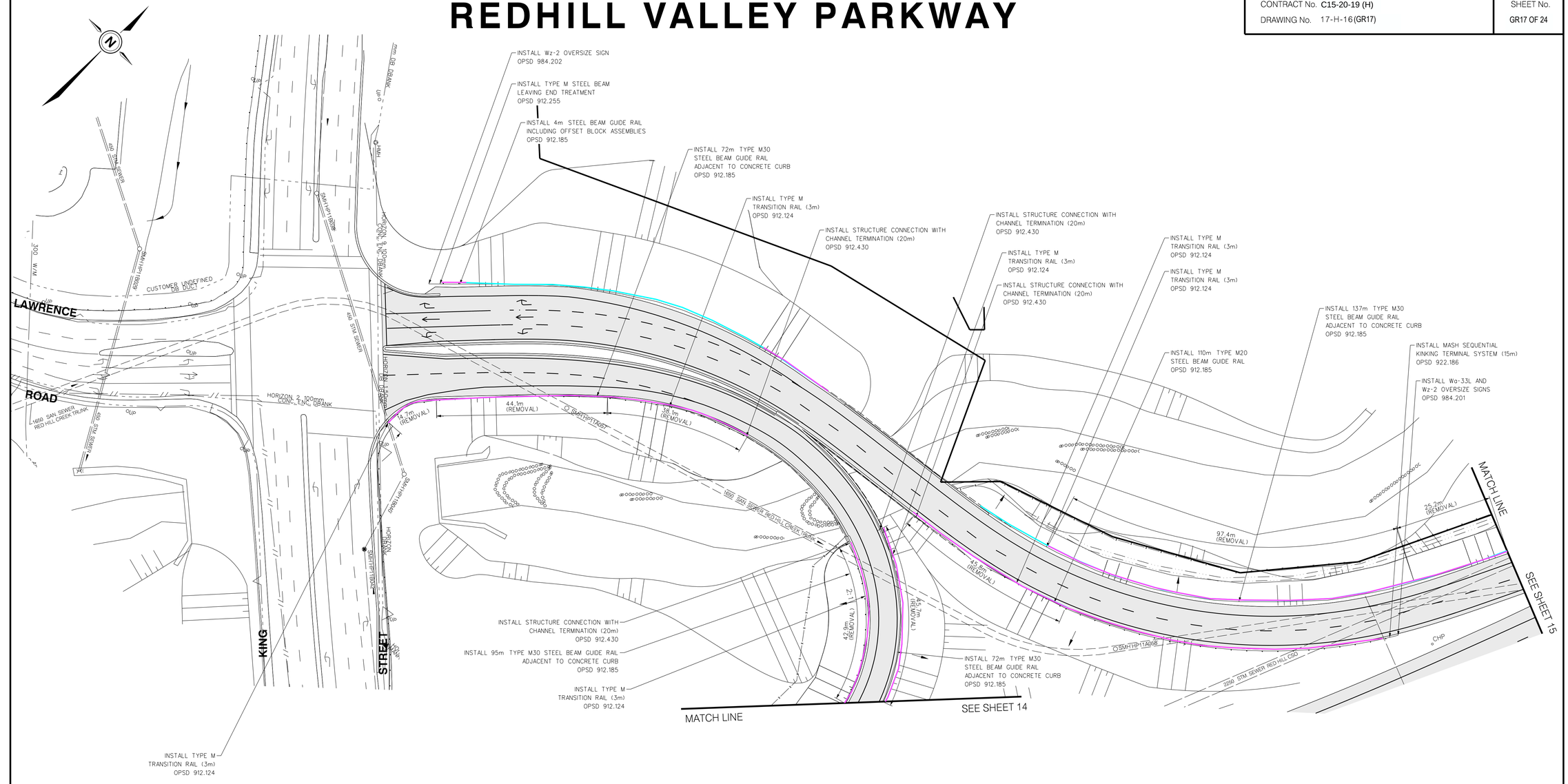
17-H-16 (GR16)

REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (GR17)

SHEET No. GR17 OF 24



NOTES

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Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

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ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	27-04-17
Design By:	N.Z. T.B
Design Date:	28-01-19

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(B) information obtained in field and indicates horizontal position of subsurface utility
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SCALES
HORIZONTAL 1:500 (0, 5m, 10m, 20m)
VERTICAL 1:100 (0, 1m, 2m, 4m)

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY
Existing Condtions
From : Pritchard Road
To : Queen Elizabeth Way

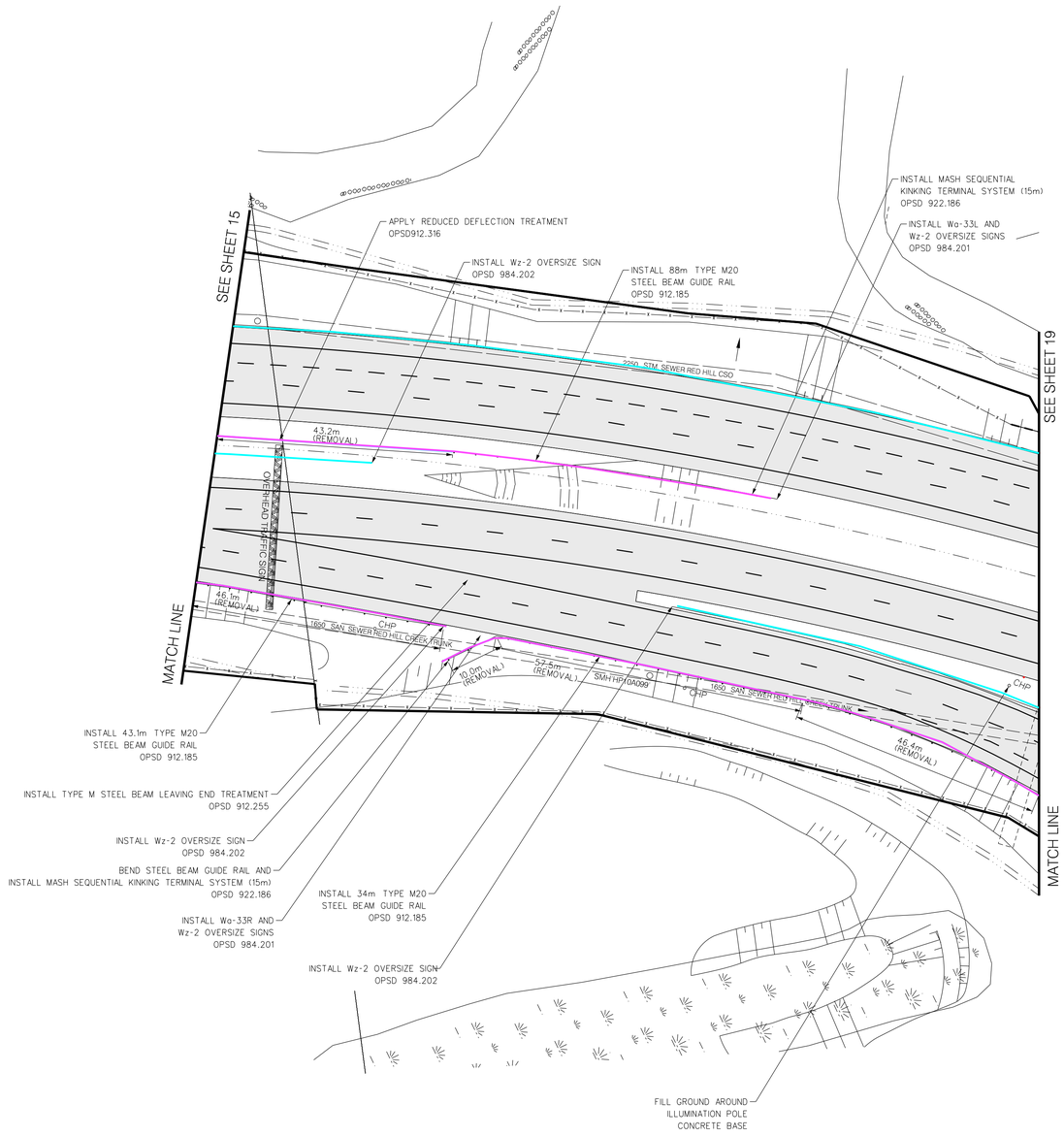
17-H-16 (GR17)

REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (GR18)

SHEET No.
GR18 OF 24



NOTES

- ALL GUIDE RAIL INSTALLATIONS SHOULD BE AT THE SAME OFFSET AS THE EXISTING SYSTEM, UNLESS OTHERWISE NOTED.
- GUIDE RAIL REFLECTORS TO BE INSTALLED ON ALL NEW, EXISTING AND REPLACED GUIDE RAILS IN ACCORDANCE WITH OPSS.PROV 721, SECTION 721.07.03.02.

No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcil plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	15-05-17
Design By:	N.Z. T.B
Design Date:	28-01-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
(D) information derived from existing records
(C) information obtained from field survey combined with (D)information
(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY

Existing Conditions

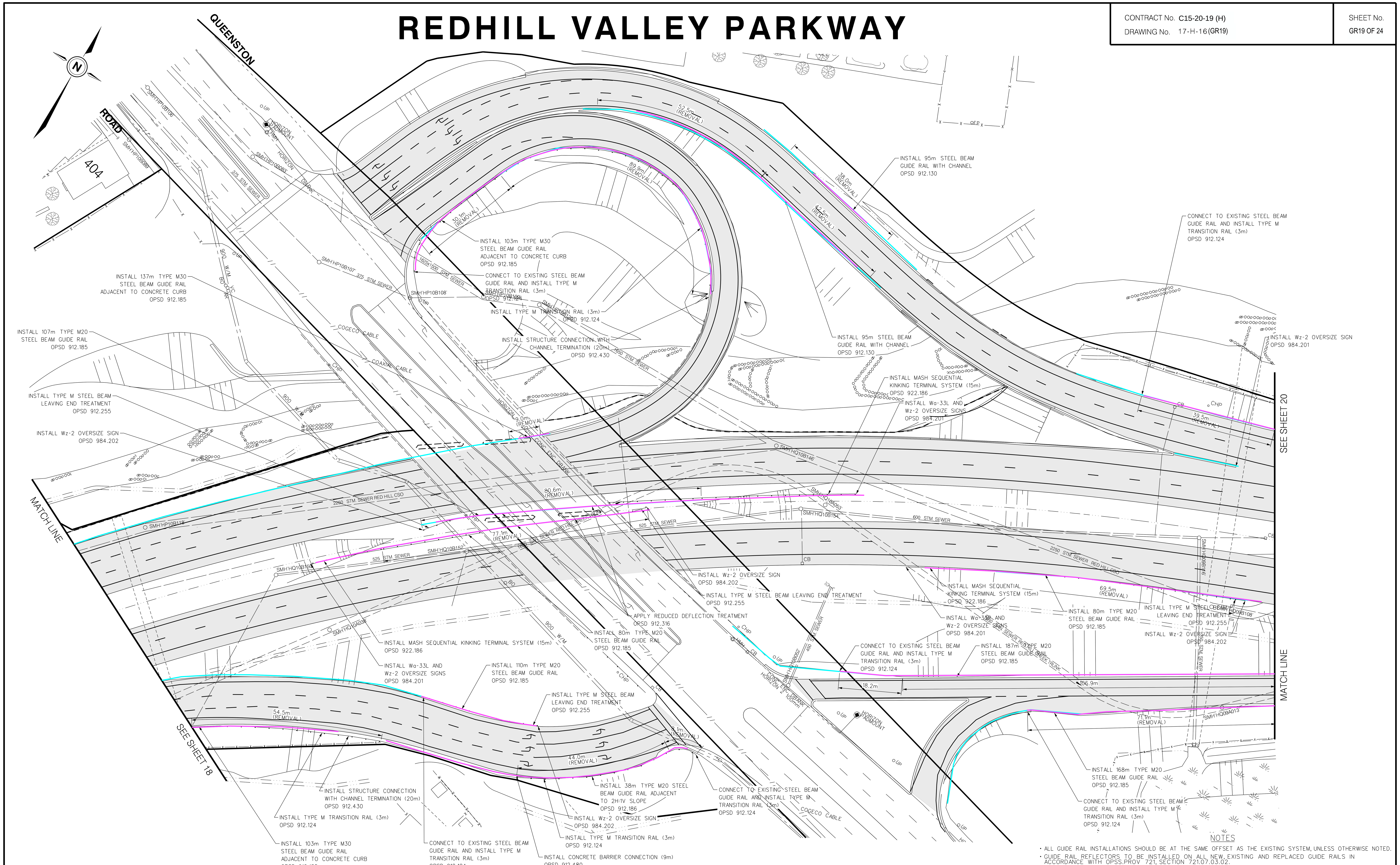
From : Pritchard Road
To : Queen Elizabeth Way

17-H-16 (GR18)

REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)	SHEET No.
DRAWING No. 17-H-16 (GR19)	GR19 OF 24



NOTES

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No.	REVISIONS	INITIAL	DATE
⚠	No Revisions	initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcil plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
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Drawn Date:	15-05-17
Design By:	N.Z, T.B
Design Date:	28-01-19

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HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.
Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY

Existing Conditions

From : Pritchard Road
To : Queen Elizabeth Way

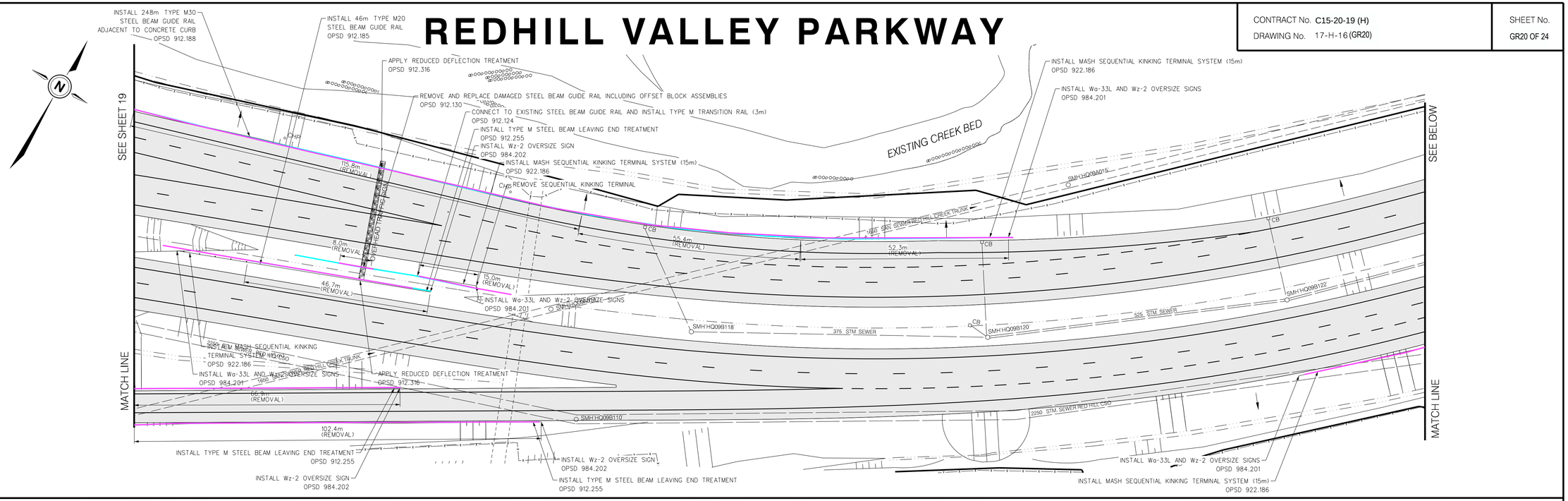
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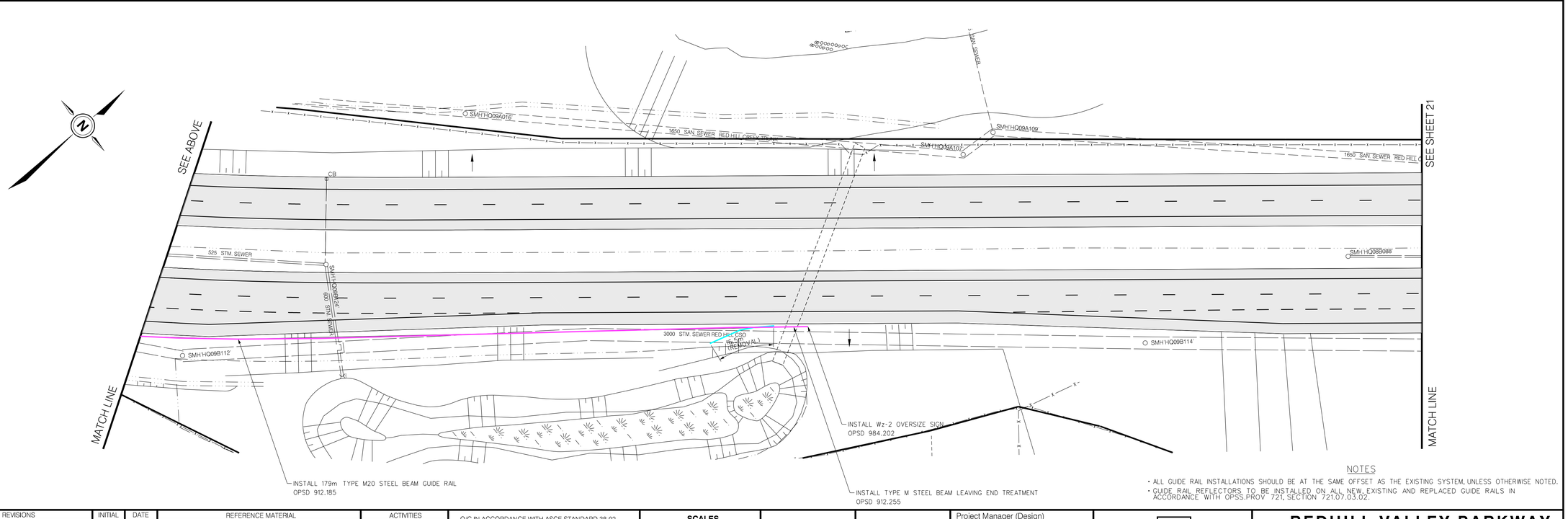
REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (GR20)

SHEET No. GR20 OF 24





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No.	REVISIONS	INITIAL	DATE
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Drawn Date:	15-05-17
Design By:	N.Z. T.B
Design Date:	28-01-19

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SCALES
HORIZONTAL 1:500 (0, 5m, 10m, 20m)
VERTICAL 1:100 (0, 1m, 2m, 4m)

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY
Existing Conditions
From : Pritchard Road
To : Queen Elizabeth Way

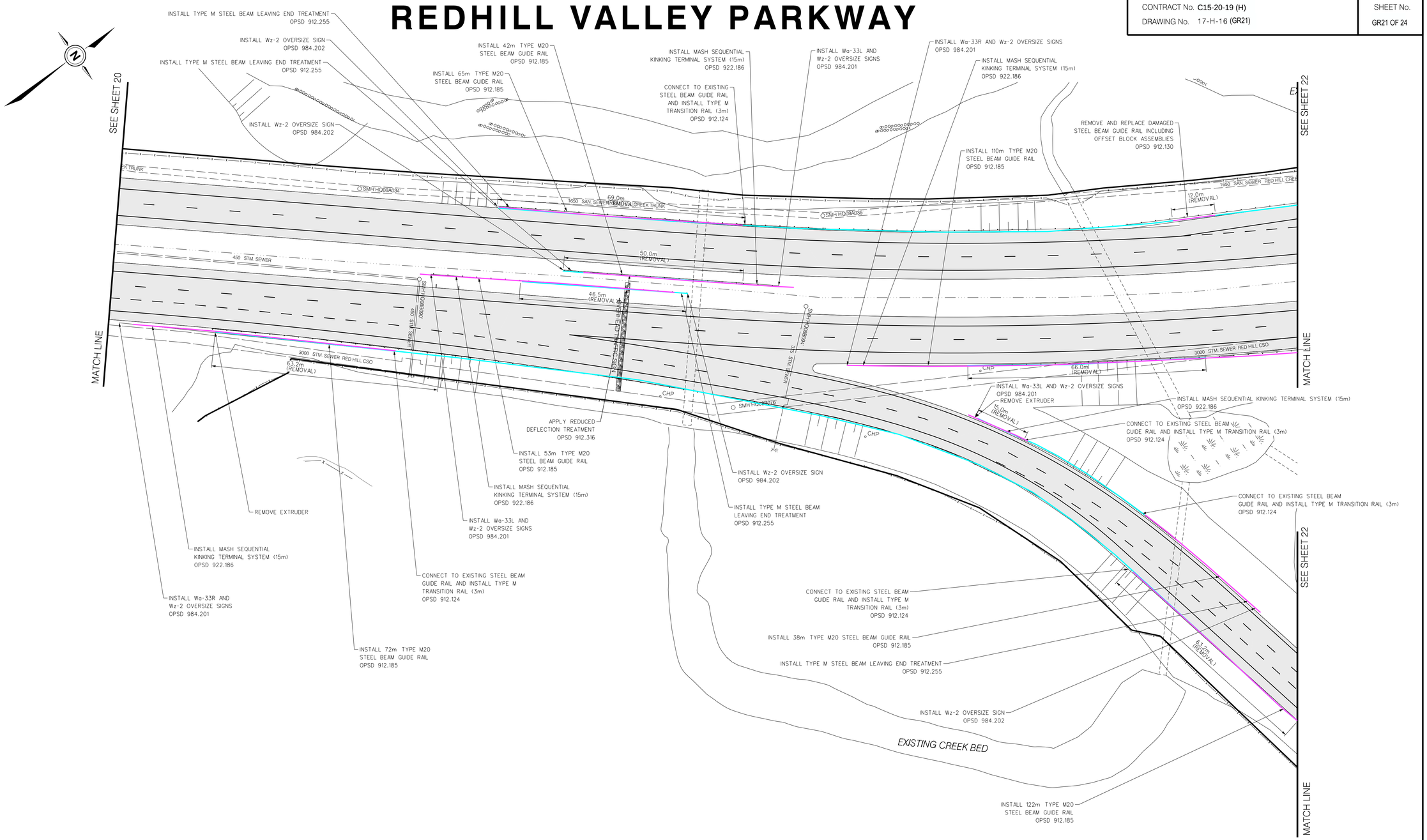
17-H-16 (GR20)

REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (GR21)

SHEET No. GR21 OF 24



NOTES

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No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

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ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	16-05-17
Design By:	N.Z. T.B
Design Date:	28-01-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
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SCALES
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HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY

Existing Conditions

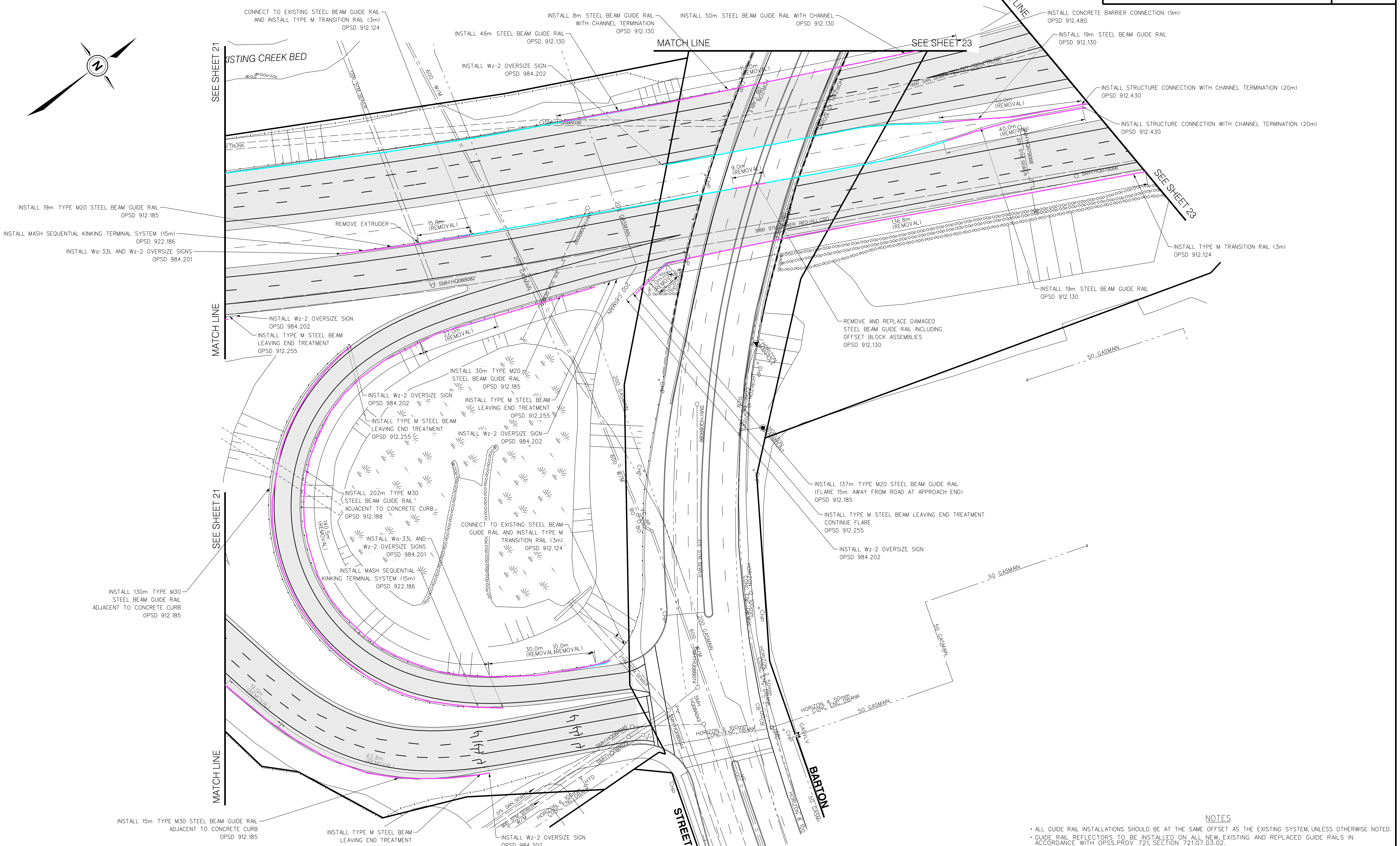
From : Pritchad Road
To : Queen Elizabeth Way

17-H-16 (GR21)

REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)	SHEET No.
DRAWING No. 17-H-16 (GR22)	GR22 OF 24



NOTES

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No.	REVISIONS	INITIAL	DATE
⚠	No Revisions	initials	dd/mm/yy

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Drawn Date:	16-05-17
Design By:	N.Z, T.B
Design Date:	28-01-19

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SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.
Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY

Existing Conditions

From : Pritchard Road
To : Queen Elizabeth Way

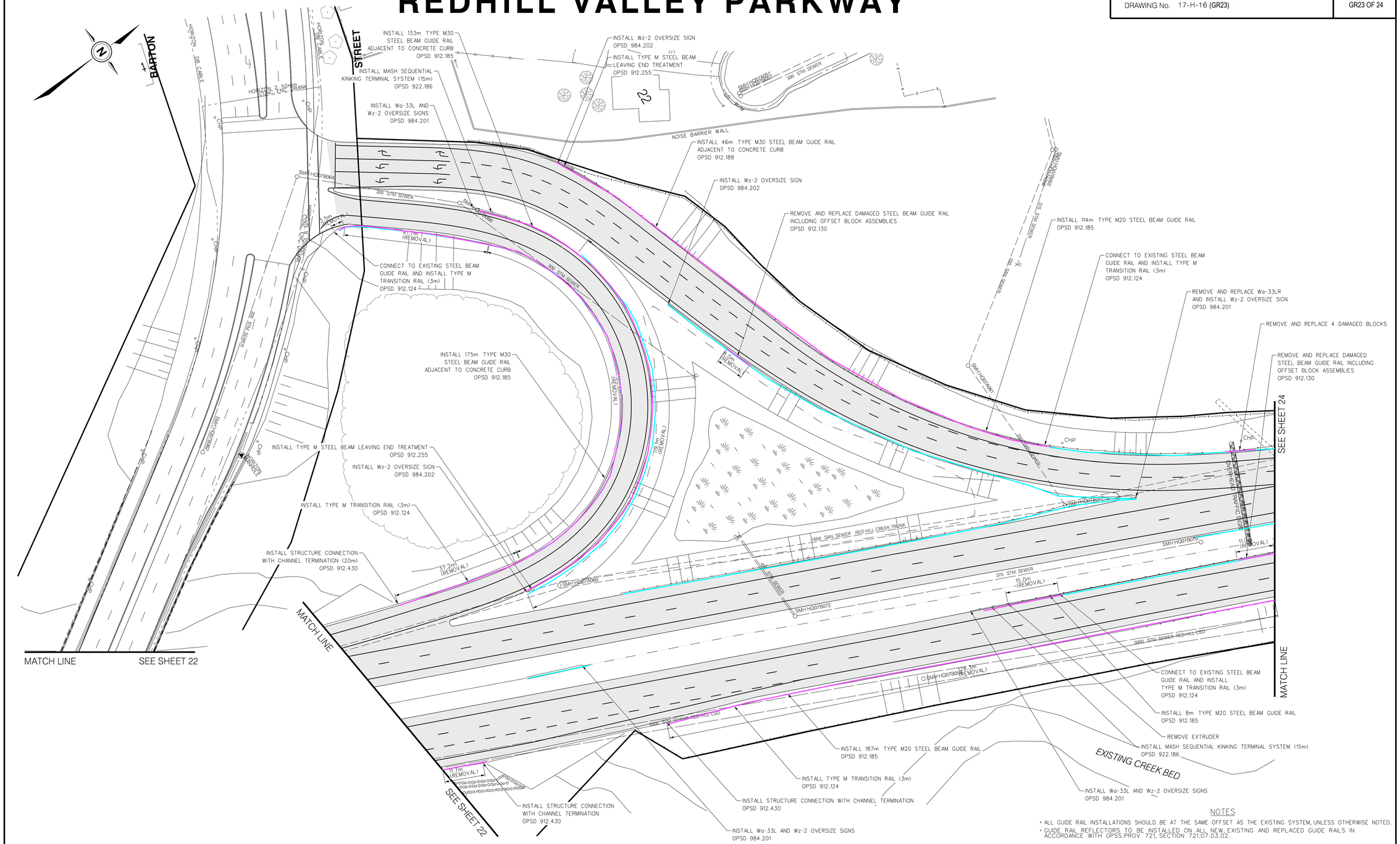
17-H-16 (GR22)

REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (GR23)

SHEET No. GR23 OF 24



NOTES

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No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

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ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	16-05-17
Design By:	N.Z. T.B
Design Date:	28-01-19

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SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.
Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

REDHILL VALLEY PARKWAY
Existing Conditions
From : Pritchard Road
To : Queen Elizabeth Way

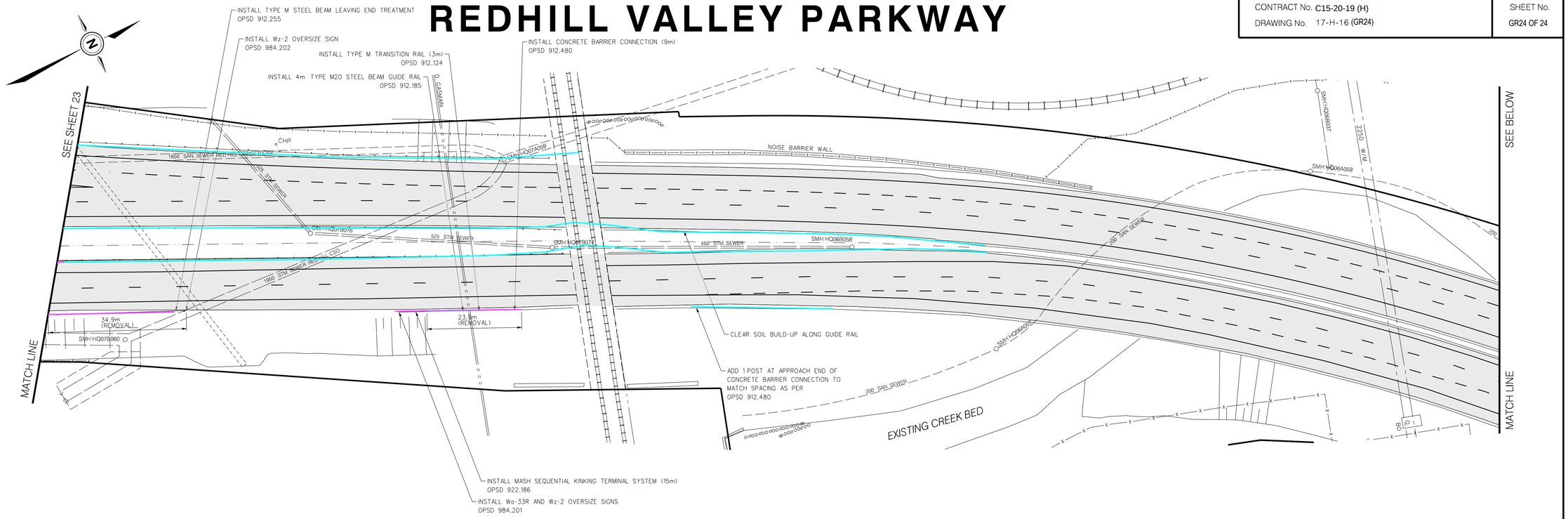
17-H-16 (GR23)

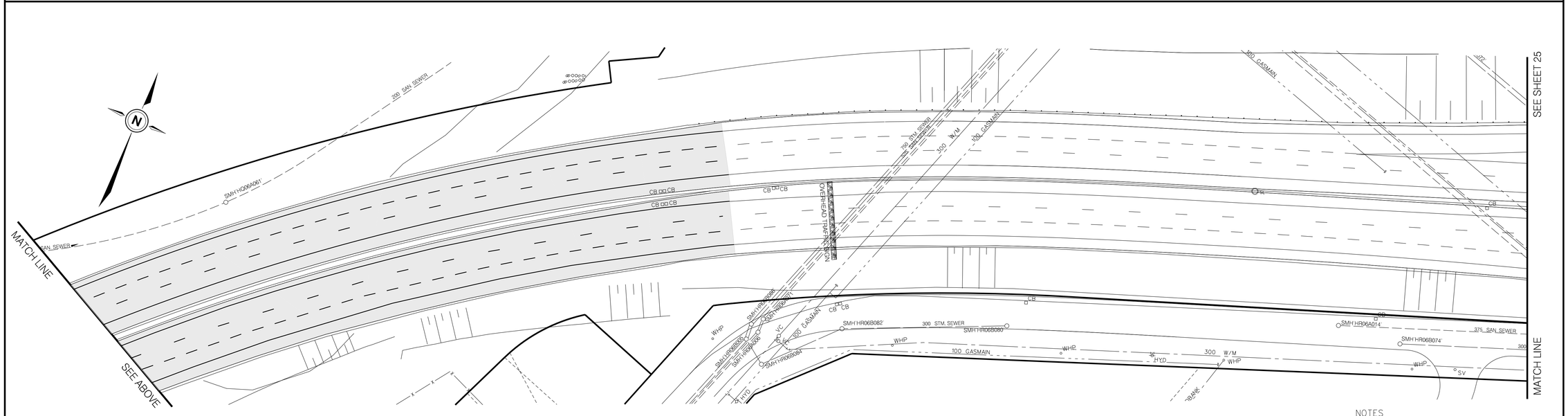
REDHILL VALLEY PARKWAY

REDHILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (GR24)

SHEET No.
GR24 OF 24





NOTES

- ALL GUIDE RAIL INSTALLATIONS SHOULD BE AT THE SAME OFFSET AS THE EXISTING SYSTEM, UNLESS OTHERWISE NOTED.
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No.	REVISIONS	INITIAL	DATE
1	No Revisions	initials	dd/mm/yy

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcil plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	17-05-17
Design By:	N.Z. T.B
Design Date:	28-01-19

O/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
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(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

SCALES
0 5m 10m 20m
HORIZONTAL 1:500
0 1m 2m 4m
VERTICAL 1:100

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

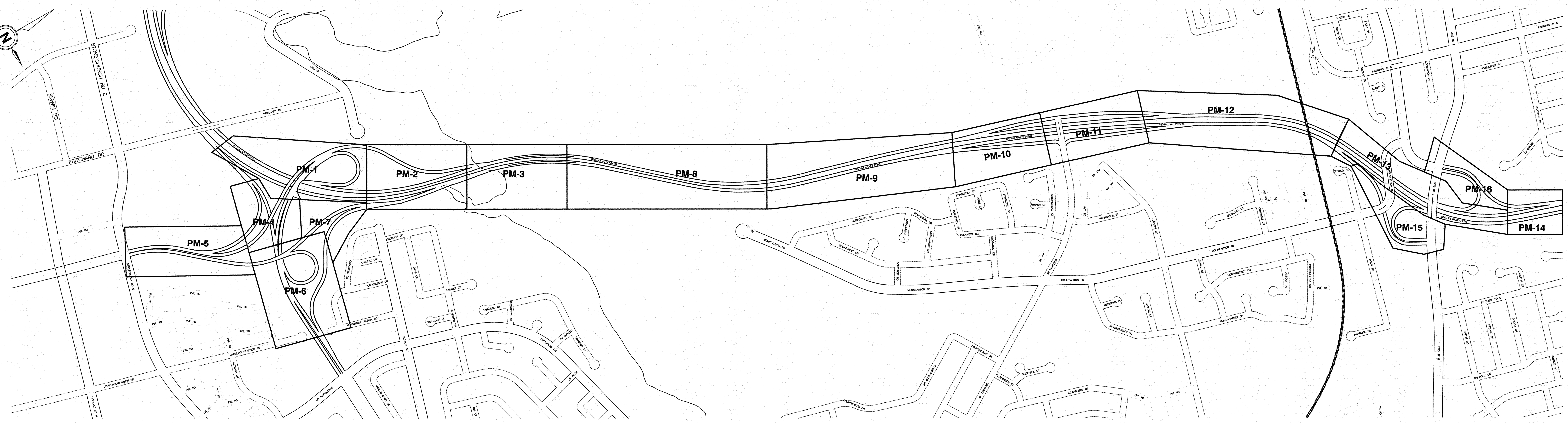
Hamilton
Public Works Department

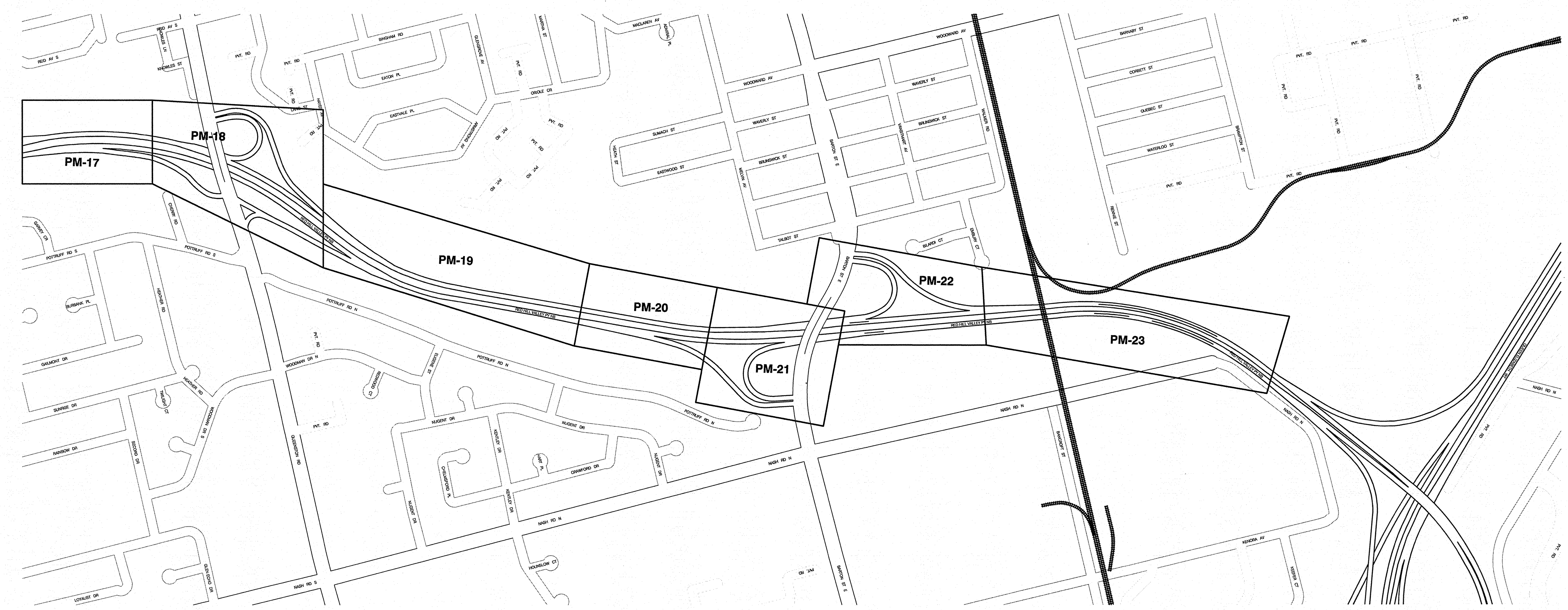
REDHILL VALLEY PARKWAY
Existing Conditions
From : Pritchard Road
To : Queen Elizabeth Way

17-H-16 (GR24)

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX:XXXXXXX





LEGEND

PROPOSED / EXISTING	
	TRAFFIC SIGNAL CONTROLLER
	DISCONNECT BOX, SERVICE ENTRANCE
	TRAFFIC JUNCTION BOX
	TRAFFIC HANDHOLE
TSUP / TSU	POLE
TSP / TSP	POST
	OVERHEAD LANE CONTROL ARM AND SIGNS
	PAVEMENT MARKING LINES
	PAVEMENT MARKING STENCILS
	PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
HYD / HYD	FIRE HYDRANT
P.P.I. / P.I.	POINT OF INTERSECTION
T.P. / T.P.	TANGENT POINT

PROPOSED / EXISTING	
	FACE OF CURB, BACK OF CURB
	FRONT OF GUTTER, FACE OF CURB
	FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
	UNCURBED EDGE OF PAVEMENT
	CONCRETE
	VEHICLE APPROACH / DRIVEWAY
	BOTTOM OF PEDESTRIAN CURB DEPRESSIONS
X	FENCE LINE
	ROAD ALLOWANCE / PROPERTY LINE
	LOOP DETECTORS
	PROJECT LIMITS

POLE CODES FORMAT: TYPE, LENGTH, OWNER, POLE NO. (MAY BE TRUNCATED)

TYPE:		OWNER:	
CP	CONCRETE	B	BELL TELEPHONE
CP-T	CONCRETE-TEMPORARY	C	CITY, STREET LIGHTING
DP-C	DECORATIVE-CONCRETE	HO	HYDRO ONE
DP-M	DECORATIVE-METAL	HU	HORIZON UTILITES
MP	METAL	MTO	MINISTRY OF TRANSPORTATION
SU	SIGNAL UTILITY	T	CITY, TRAFFIC
WP	WOOD	T-HD	CITY, TRAFFIC, HEAVY DUTY
WP-T	WOOD-TEMPORARY	PVT	PRIVATE

PARKING REGULATIONS

NREGS	NO REGULATIONS	NPLZ	NO PARKING LOADING ZONE
NPA	NO PARKING ANYTIME	CVLZ	COMMERCIAL VEHICLE LOADING ZONE
NSA	NO STOPPING ANYTIME	SBLZ	SCHOOL BUS LOADING ZONE
NSAM	NO STOPPING 7am-9am	WCLZ	WHEELCHAIR LOADING ZONE
NSPM	NO STOPPING 4pm-6pm	ASP	ALTERNATE SIDE PARKING

STANDARD PRACTICES, UNLESS NOTED

- DIMENSIONS ARE METRES UNLESS OTHERWISE NOTED
- SIDEWALKS AND ISLANDS AT ALL PEDESTRIAN CROSSINGS TO HAVE WHEELCHAIR DEPRESSIONS BETWEEN CROSSWALK LINES
- DIRECTIONAL LINES IN PEDESTRIAN CROSSINGS NOT SHOWN
- CROSSING STRIPES FOR LADDER CROSSWALKS TO BE 450mm WIDE WITH 450mm SPACING.
- POINT OF INTERSECTION TO CROSSWALK: 0.6m
- POINT OF INTERSECTION TO TERMINUS OF LONGITUDINAL LINES WHERE NO STOP BAR: 3.0m
- STOP BAR WIDTH: 0.6m AT 1.0m SET-BACK FROM CROSSWALK
- BICYCLE SIGNING AND MARKINGS FROM OTM BOOK 18 AND TAC, BIKEWAY TRAFFIC CONTROL GUIDELINES FOR CANADA, FEB. 2012.
- LANE DIMENSIONS TO ℄ OF MARKINGS, AND EDGE OF ASPHALT

0 10 20 30 40 50 METRES

No.	DATE	DRAWN	REVISION DETAILS
0	2019.02	SP	ISSUED FOR CITY REVIEW- FEBRUARY 2019

CHECKED:

APPROVAL:

MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

MM/DD/YY

PAVEMENT MARKINGS DESIGN

RED HILL VALLEY PARKWAY
FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON	SCALE: 1:500	DRAWING No.: PM-K
PRINTED: 3/7/2019	DESIGN: SR/SP	

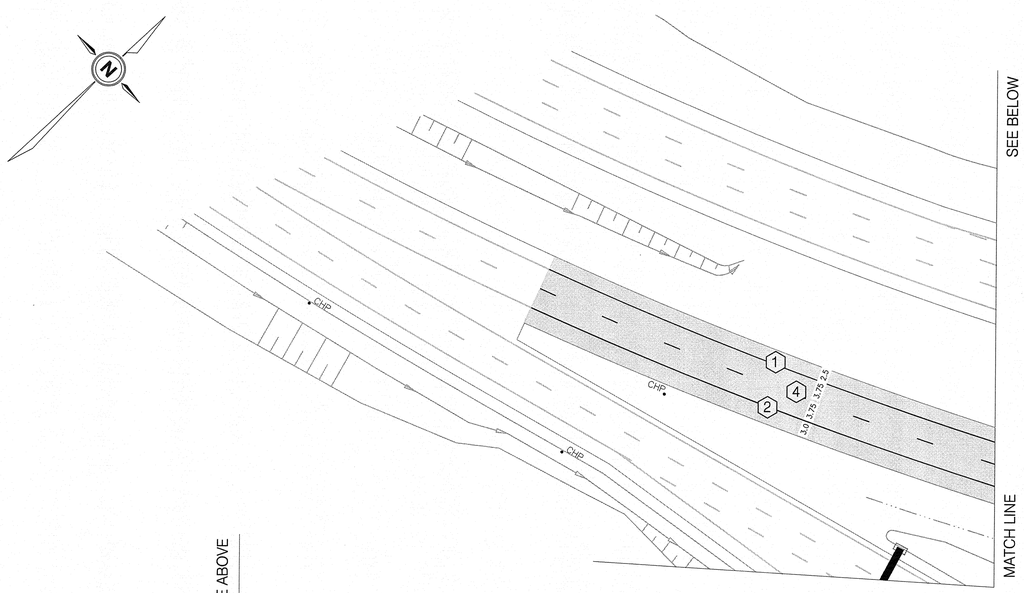
2015-08 BASE

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

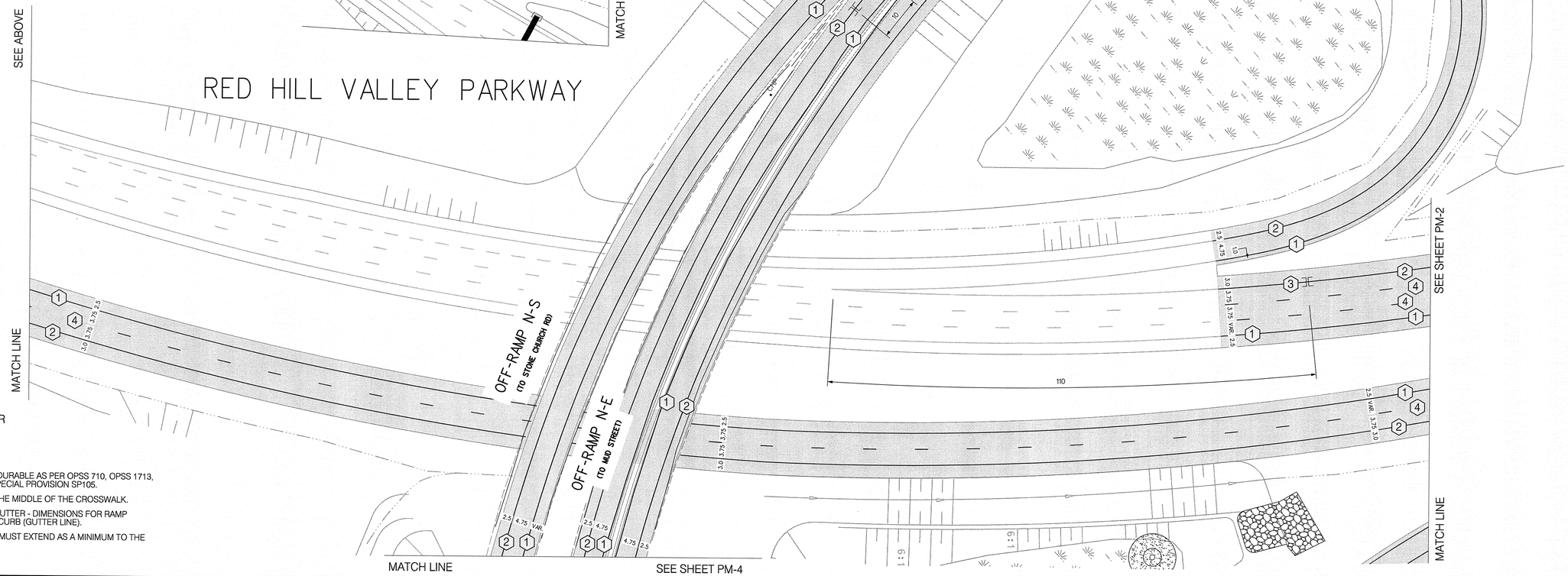
DT: XXXXXXX

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX:XXXXXXX



RED HILL VALLEY PARKWAY



LEGEND - PAVEMENT MARKINGS

1. 10cm SOLID YELLOW
2. 10cm SOLID WHITE
3. 20cm SOLID WHITE
4. 10cm WHITE (3m LINE - 9m GAP)
5. 20cm WHITE (3m LINE - 3m GAP)
6. 10cm WHITE (3m LINE - 6m GAP)
7. 60cm SOLID WHITE
8. 10cm WHITE (1m LINE - 1m GAP)
9. 10cm WHITE (3m LINE - 3m GAP)

LINE TYPE CHANGES

(*) DISTANCE MEASURED FROM CENTRE OF CONCRETE BARRIER

NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE DURABLE AS PER OPSS 710, OPSS 1713, OPSS 1714 AND CITY OF HAMILTON SPECIAL PROVISION SP105.
2. POSITION EXISTING DROP CURBS IN THE MIDDLE OF THE CROSSWALK.
3. RAMPS WITH CONCRETE CURB AND GUTTER - DIMENSIONS FOR RAMP SHOULDER WIDTHS ARE TO FACE OF CURB (GUTTER LINE).
4. LENGTH MUST BE 50m MINIMUM AND MUST EXTEND AS A MINIMUM TO THE PHYSICAL BULLNOSE

LEGEND

PROPOSED	EXISTING	
■	■	TRAFFIC SIGNAL CONTROLLER
		DISCONNECT BOX, SERVICE ENTRANCE
■	■	TRAFFIC JUNCTION BOX
■	■	TRAFFIC HANDHOLE
TSUP	TSU	POLE
TSP	TSP	POST
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
HYD	HYD	PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
		FIRE HYDRANT
P.P.I.	P.I.	POINT OF INTERSECTION
T.P.	T.P.	TANGENT POINT

PROPOSED	EXISTING	
		FACE OF CURB, BACK OF CURB
		FRONT OF GUTTER, FACE OF CURB
		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
		UNCURBED EDGE OF PAVEMENT
		CONCRETE
		VEHICLE APPROACH / DRIVEWAY
		BOTTOM OF PEDESTRIAN CURB DEPRESSIONS
	X	FENCE LINE
		ROAD ALLOWANCE / PROPERTY LINE
		LOOP DETECTORS
		PROJECT LIMITS

POLE CODES FORMAT: TYPE, LENGTH, OWNER, POLE NO. (MAY BE TRUNCATED)

TYPE:		OWNER:	
CP	CONCRETE	B	BELL TELEPHONE
CP-T	CONCRETE-TEMPORARY	C	CITY, STREET LIGHTING
DP-C	DECORATIVE-CONCRETE	HO	HYDRO ONE
DP-M	DECORATIVE-METAL	HU	HORIZON UTILITES
MP	METAL	MTO	MINISTRY OF TRANSPORTATION
SU	SIGNAL UTILITY	T	CITY, TRAFFIC
WP	WOOD	T-HD	CITY, TRAFFIC, HEAVY DUTY
WP-T	WOOD-TEMPORARY	PVT	PRIVATE

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NSA	NO STOPPING ANYTIME	SBLZ	SCHOOL BUS LOADING ZONE
NSAM	NO STOPPING 7am-9am	WCLZ	WHEELCHAIR LOADING ZONE
NSPM	NO STOPPING 4pm-6pm	ASP	ALTERNATE SIDE PARKING

STANDARD PRACTICES, UNLESS NOTED

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- STOP BAR WIDTH: 0.6m AT 1.0m SET-BACK FROM CROSSWALK
- BICYCLE SIGNING AND MARKINGS FROM OTM BOOK 18 AND TAC, BIKEWAY TRAFFIC CONTROL GUIDELINES FOR CANADA, FEB. 2012.
- LANE DIMENSIONS TO ℄ OF MARKINGS, AND EDGE OF ASPHALT

0 10 20 30 40 50 METRES

No.	DATE	DRAWN	REVISION DETAILS
0	2019.02	SP	ISSUED FOR CITY REVIEW- FEBRUARY 2019

CHECKED:

APPROVAL:

MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

MM/DD/YY

PAVEMENT MARKINGS DESIGN

RED HILL VALLEY PARKWAY
FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON | SCALE: 1:500 | DRAWING No.: PM-1

PRINTED: 3/7/2019 | DESIGN: SR/SP

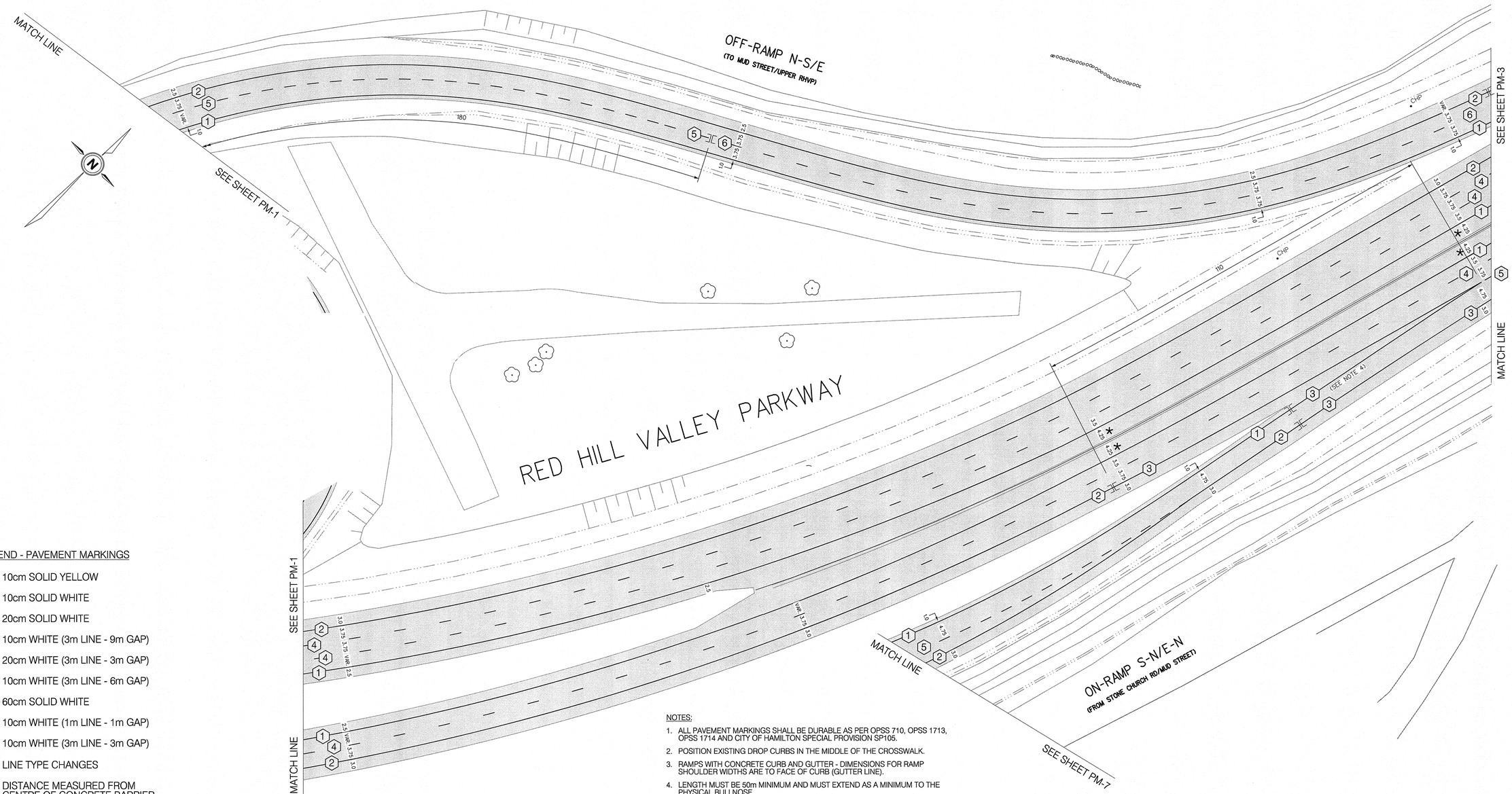
2015-08 BASE

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DT: XXXXXXX

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX-XXXXXXXX



LEGEND - PAVEMENT MARKINGS

1. 10cm SOLID YELLOW
2. 10cm SOLID WHITE
3. 20cm SOLID WHITE
4. 10cm WHITE (3m LINE - 9m GAP)
5. 20cm WHITE (3m LINE - 3m GAP)
6. 10cm WHITE (3m LINE - 6m GAP)
7. 60cm SOLID WHITE
8. 10cm WHITE (1m LINE - 1m GAP)
9. 10cm WHITE (3m LINE - 3m GAP)

LINE TYPE CHANGES

(*) DISTANCE MEASURED FROM CENTRE OF CONCRETE BARRIER

NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE DURABLE AS PER OPSS 710, OPSS 1713, OPSS 1714 AND CITY OF HAMILTON SPECIAL PROVISION SP105.
2. POSITION EXISTING DROP CURBS IN THE MIDDLE OF THE CROSSWALK.
3. RAMPS WITH CONCRETE CURB AND GUTTER - DIMENSIONS FOR RAMP SHOULDER WIDTHS ARE TO FACE OF CURB (GUTTER LINE).
4. LENGTH MUST BE 50m MINIMUM AND MUST EXTEND AS A MINIMUM TO THE PHYSICAL BULLNOSE

LEGEND

PROPOSED	EXISTING	
■	■	TRAFFIC SIGNAL CONTROLLER
		DISCONNECT BOX, SERVICE ENTRANCE
■	■	TRAFFIC JUNCTION BOX
● TSUP	● TSU	TRAFFIC HANDHOLE
● TSP	● TSP	POLE
		POST
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
HYD	HYD	PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
		FIRE HYDRANT
P.P.I.	P.I.	POINT OF INTERSECTION
T.P.	T.P.	TANGENT POINT

PROPOSED	EXISTING	
		FACE OF CURB, BACK OF CURB
		FRONT OF GUTTER, FACE OF CURB
		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
		UNCURBED EDGE OF PAVEMENT
		CONCRETE
		VEHICLE APPROACH / DRIVEWAY
		BOTTOM OF PEDESTRIAN CURB DEPRESSIONS
	X	FENCE LINE
		ROAD ALLOWANCE / PROPERTY LINE
		LOOP DETECTORS
		PROJECT LIMITS

POLE CODES FORMAT: TYPE, LENGTH, OWNER, POLE NO. (MAY BE TRUNCATED)

TYPE:		OWNER:	
CP	CONCRETE	B	BELL TELEPHONE
CP-T	CONCRETE-TEMPORARY	C	CITY, STREET LIGHTING
DP-C	DECORATIVE-CONCRETE	HO	HYDRO ONE
DP-M	DECORATIVE-METAL	HU	HORIZON UTILITIES
MP	METAL	MTO	MINISTRY OF TRANSPORTATION
SU	SIGNAL UTILITY	T	CITY, TRAFFIC
WP	WOOD	T-HD	CITY, TRAFFIC, HEAVY DUTY
WP-T	WOOD-TEMPORARY	PVT	PRIVATE

PARKING REGULATIONS

NREGS	NO REGULATIONS	NPLZ	NO PARKING LOADING ZONE
NPA	NO PARKING ANYTIME	CVLZ	COMMERCIAL VEHICLE LOADING ZONE
NSA	NO STOPPING ANYTIME	SBLZ	SCHOOL BUS LOADING ZONE
NSAM	NO STOPPING 7am-9am	WCLZ	WHEELCHAIR LOADING ZONE
NSPM	NO STOPPING 4pm-6pm	ASP	ALTERNATE SIDE PARKING

STANDARD PRACTICES, UNLESS NOTED

- DIMENSIONS ARE METRES UNLESS OTHERWISE NOTED
- SIDEWALKS AND ISLANDS AT ALL PEDESTRIAN CROSSINGS TO HAVE WHEELCHAIR DEPRESSIONS BETWEEN CROSSWALK LINES
- DIRECTIONAL LINES IN PEDESTRIAN CROSSINGS NOT SHOWN
- CROSSING STRIPES FOR LADDER CROSSWALKS TO BE 450mm WIDE WITH 450mm SPACING.
- POINT OF INTERSECTION TO CROSSWALK: 0.6m
- POINT OF INTERSECTION TO TERMINUS OF LONGITUDINAL LINES WHERE NO STOP BAR: 3.0m
- STOP BAR WIDTH: 0.6m AT 1.0m SET-BACK FROM CROSSWALK
- BICYCLE SIGNING AND MARKINGS FROM OTM BOOK 18 AND TAC, BIKEWAY TRAFFIC CONTROL GUIDELINES FOR CANADA, FEB. 2012.
- LANE DIMENSIONS TO ℄ OF MARKINGS, AND EDGE OF ASPHALT

0 10 20 30 40 50 METRES

No.	DATE	DRAWN	REVISION DETAILS
0	2019.02	SP	ISSUED FOR CITY REVIEW- FEBRUARY 2019

CHECKED:

APPROVAL:

MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

MM/DD/YY

PAVEMENT MARKINGS DESIGN

RED HILL VALLEY PARKWAY
FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON | SCALE: 1:500 | DRAWING No.: PM-2

PRINTED: 3/7/2019 | DESIGN: SR/SP

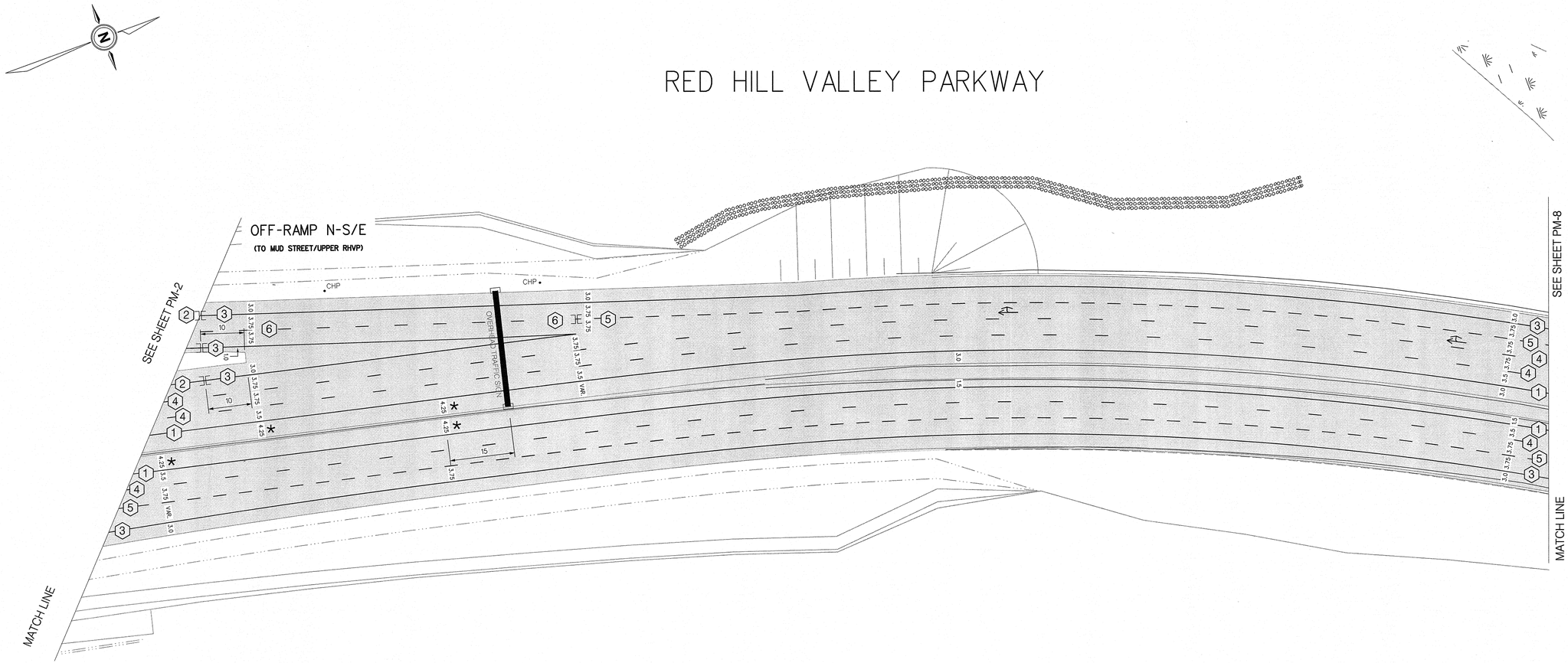
2015-08 BASE

DT: XXXXXXX RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX-XXXXXXXX

RED HILL VALLEY PARKWAY



LEGEND - PAVEMENT MARKINGS

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2. 10cm SOLID WHITE
3. 20cm SOLID WHITE
4. 10cm WHITE (3m LINE - 9m GAP)
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LINE TYPE CHANGES

(*) DISTANCE MEASURED FROM CENTRE OF CONCRETE BARRIER

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LEGEND

PROPOSED	EXISTING	
■	■	TRAFFIC SIGNAL CONTROLLER
		DISCONNECT BOX, SERVICE ENTRANCE
■	■	TRAFFIC JUNCTION BOX
●	●	TRAFFIC HANDHOLE
TSUP	TSU	POLE
TSP	TSP	POST
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
		PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
HYD	HYD	FIRE HYDRANT
P.I.	P.I.	POINT OF INTERSECTION
T.P.	T.P.	TANGENT POINT

PROPOSED	EXISTING	
		FACE OF CURB, BACK OF CURB
		FRONT OF GUTTER, FACE OF CURB
		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
		UNCURBED EDGE OF PAVEMENT
		CONCRETE
		VEHICLE APPROACH / DRIVEWAY
		BOTTOM OF PEDESTRIAN CURB DEPRESSIONS
	X	FENCE LINE
		ROAD ALLOWANCE / PROPERTY LINE
		LOOP DETECTORS
		PROJECT LIMITS

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MP	METAL	MTO	MINISTRY OF TRANSPORTATION
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No.	DATE	DRAWN	REVISION DETAILS
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APPROVAL:

MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

MM/DD/YY

PAVEMENT MARKINGS DESIGN

RED HILL VALLEY PARKWAY
FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON,
TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND
TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON	SCALE: 1:500	DRAWING No.:
PRINTED: 3/7/2019	DESIGN: SR/SP	PM-3

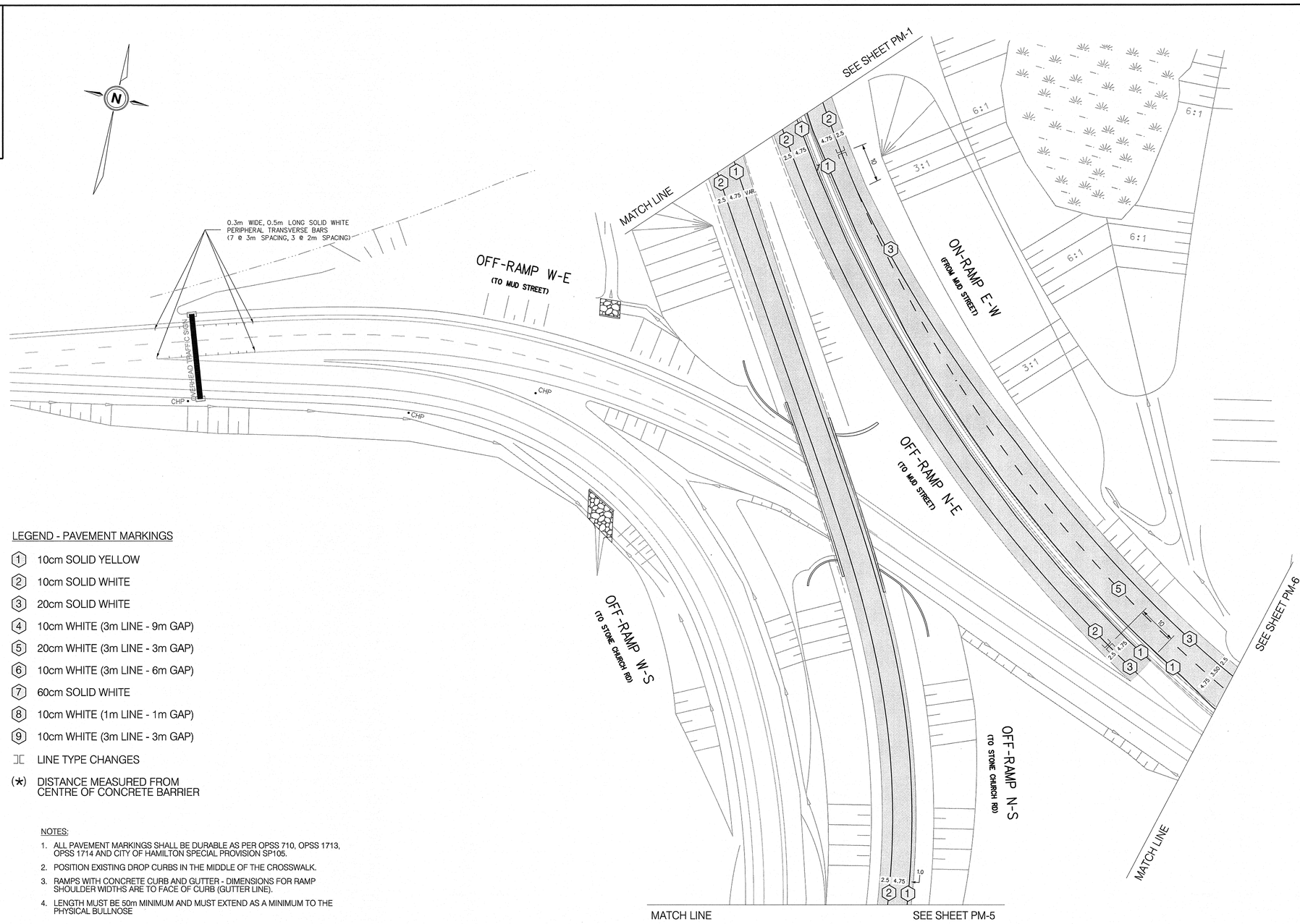
2015-08 BASE

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DT: XXXXXXX

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX-XXXXXXXX



LEGEND - PAVEMENT MARKINGS

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2. 10cm SOLID WHITE
3. 20cm SOLID WHITE
4. 10cm WHITE (3m LINE - 9m GAP)
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LINE TYPE CHANGES

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LEGEND

PROPOSED	EXISTING	
■	■	TRAFFIC SIGNAL CONTROLLER
⋈	⋈	DISCONNECT BOX, SERVICE ENTRANCE
■	■	TRAFFIC JUNCTION BOX
●	●	TRAFFIC HANDHOLE
TSUP / TSP	TSU / TSP	POLE
		POST
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
		PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
HYD	HYD	FIRE HYDRANT
P.P.I.	P.I.	POINT OF INTERSECTION
T.P.	T.P.	TANGENT POINT

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		FRONT OF GUTTER, FACE OF CURB
		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
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		CONCRETE
		VEHICLE APPROACH / DRIVEWAY
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	X	FENCE LINE
		ROAD ALLOWANCE / PROPERTY LINE
		LOOP DETECTORS
		PROJECT LIMITS

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DP-M	DECORATIVE-METAL	HU	HORIZON UTILITIES
MP	METAL	MTO	MINISTRY OF TRANSPORTATION
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WP	WOOD	T-HD	CITY, TRAFFIC, HEAVY DUTY
WP-T	WOOD-TEMPORARY	PVT	PRIVATE

PARKING REGULATIONS

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- LANE DIMENSIONS TO ℄ OF MARKINGS, AND EDGE OF ASPHALT

0 10 20 30 40 50 METRES

No.	DATE	DRAWN	REVISION DETAILS
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MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

MM/DD/YY

PAVEMENT MARKINGS DESIGN

RED HILL VALLEY PARKWAY
FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON | SCALE: 1:500

PRINTED: 3/7/2019 | DESIGN: SR/SP

DRAWING No.: PM-4

2015-08 BASE

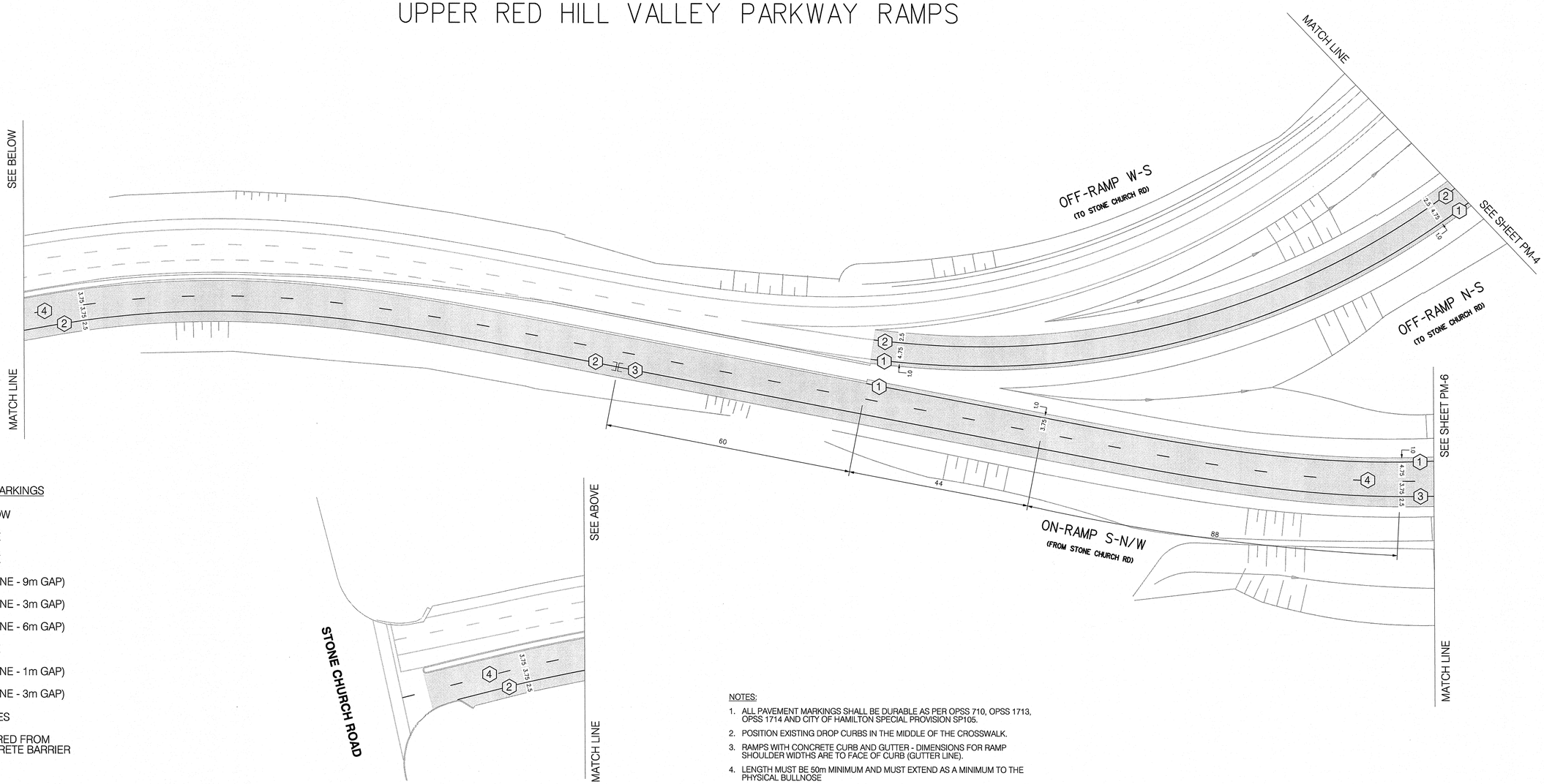
DT: XXXXXXX

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX-XXXXXXXX

UPPER RED HILL VALLEY PARKWAY RAMPS



LEGEND - PAVEMENT MARKINGS

1. 10cm SOLID YELLOW
2. 10cm SOLID WHITE
3. 20cm SOLID WHITE
4. 10cm WHITE (3m LINE - 9m GAP)
5. 20cm WHITE (3m LINE - 3m GAP)
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LINE TYPE CHANGES

(*) DISTANCE MEASURED FROM CENTRE OF CONCRETE BARRIER

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LEGEND

PROPOSED	EXISTING	
■	■	TRAFFIC SIGNAL CONTROLLER
		DISCONNECT BOX, SERVICE ENTRANCE
■	■	TRAFFIC JUNCTION BOX
■ TSUP	■ TSU	TRAFFIC HANDHOLE
• TSP	• TSP	POLE
		POST
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
		PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
HYD	HYD	FIRE HYDRANT
P.P.I.	P.I.	POINT OF INTERSECTION
T.P.	T.P.	TANGENT POINT

PROPOSED	EXISTING	
		FACE OF CURB, BACK OF CURB
		FRONT OF GUTTER, FACE OF CURB
		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
		UNCURBED EDGE OF PAVEMENT
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		VEHICLE APPROACH / DRIVEWAY
		BOTTOM OF PEDESTRIAN CURB DEPRESSIONS
	X	FENCE LINE
		ROAD ALLOWANCE / PROPERTY LINE
		LOOP DETECTORS
		PROJECT LIMITS

POLE CODES FORMAT: TYPE, LENGTH, OWNER, POLE NO. (MAY BE TRUNCATED)

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WP	WOOD	T-HD	CITY, TRAFFIC, HEAVY DUTY
WP-T	WOOD-TEMPORARY	PVT	PRIVATE

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PAVEMENT MARKINGS DESIGN

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IN THE CITY OF HAMILTON

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SURVEY DATE: CITY OF HAMILTON | SCALE: 1:500

PRINTED: 3/7/2019 | DESIGN: SR/SP

DRAWING No.: PM-5

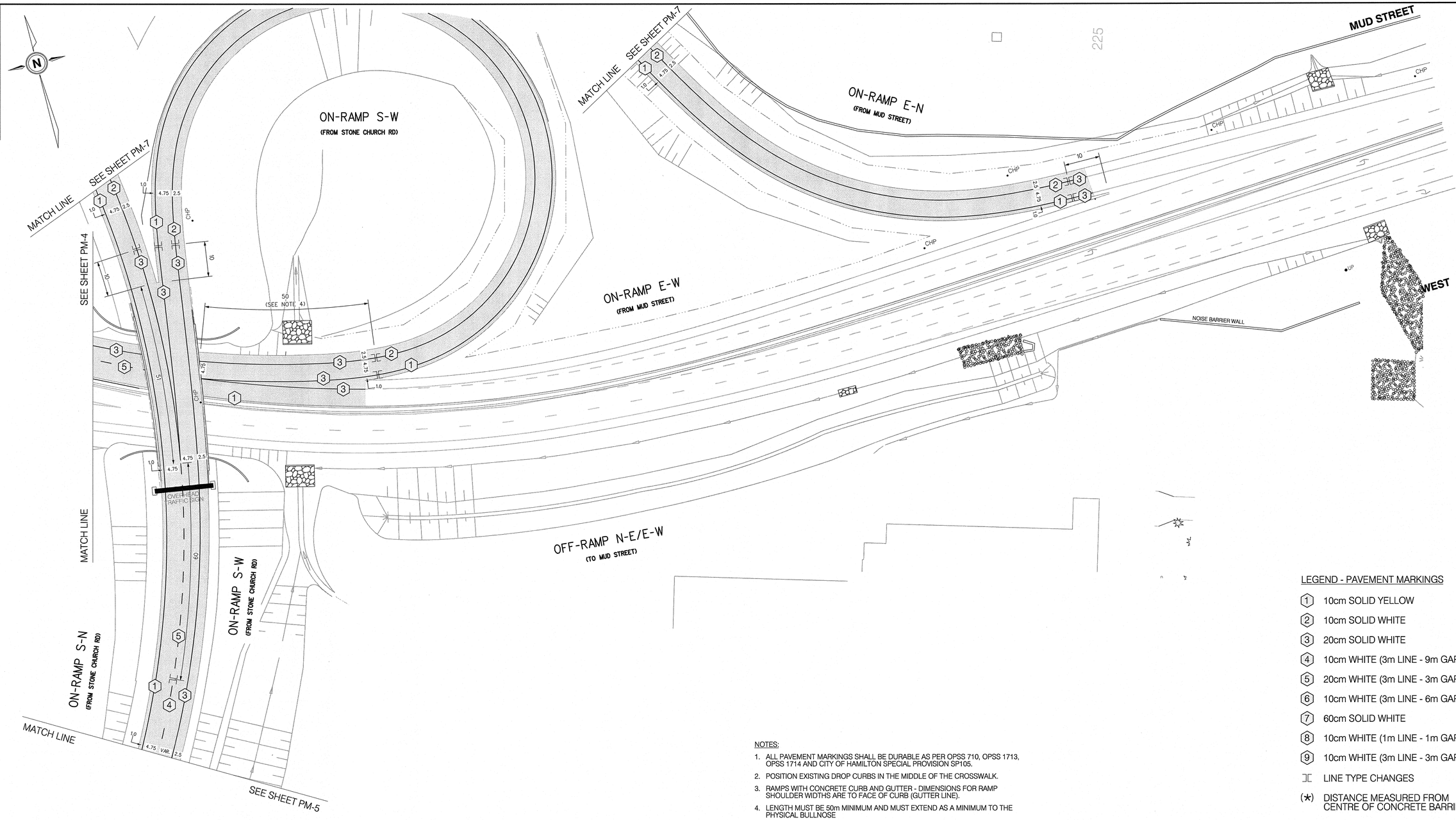
2016-08 BASE

DT-XXXXXXX

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX-XXXXXXX



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STANDARD PRACTICES, UNLESS NOTED

- DIMENSIONS ARE METRES UNLESS OTHERWISE NOTED
- SIDEWALKS AND ISLANDS AT ALL PEDESTRIAN CROSSINGS TO HAVE WHEELCHAIR DEPRESSIONS BETWEEN CROSSWALK LINES
- DIRECTIONAL LINES IN PEDESTRIAN CROSSINGS NOT SHOWN
- CROSSING STRIPES FOR LADDER CROSSWALKS TO BE 450mm WIDE WITH 450mm SPACING.
- POINT OF INTERSECTION TO CROSSWALK: 0.6m
- POINT OF INTERSECTION TO TERMINUS OF LONGITUDINAL LINES WHERE NO STOP BAR: 3.0m
- STOP BAR WIDTH: 0.6m AT 1.0m SET-BACK FROM CROSSWALK
- BICYCLE SIGNING AND MARKINGS FROM OTM BOOK 18 AND TAC, BIKEWAY TRAFFIC CONTROL GUIDELINES FOR CANADA, FEB. 2012.
- LANE DIMENSIONS TO ℄ OF MARKINGS, AND EDGE OF ASPHALT

0 10 20 30 40 50 METRES

No.	DATE	DRAWN	REVISION DETAILS
0	2019.02	SP	ISSUED FOR CITY REVIEW- FEBRUARY 2019

CHECKED:

APPROVAL:

MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

MM/DD/YY

PAVEMENT MARKINGS DESIGN

RED HILL VALLEY PARKWAY
FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON | SCALE: 1:500

PRINTED: 3/7/2019 | DESIGN: SR/SP

DRAWING No.: PM-6

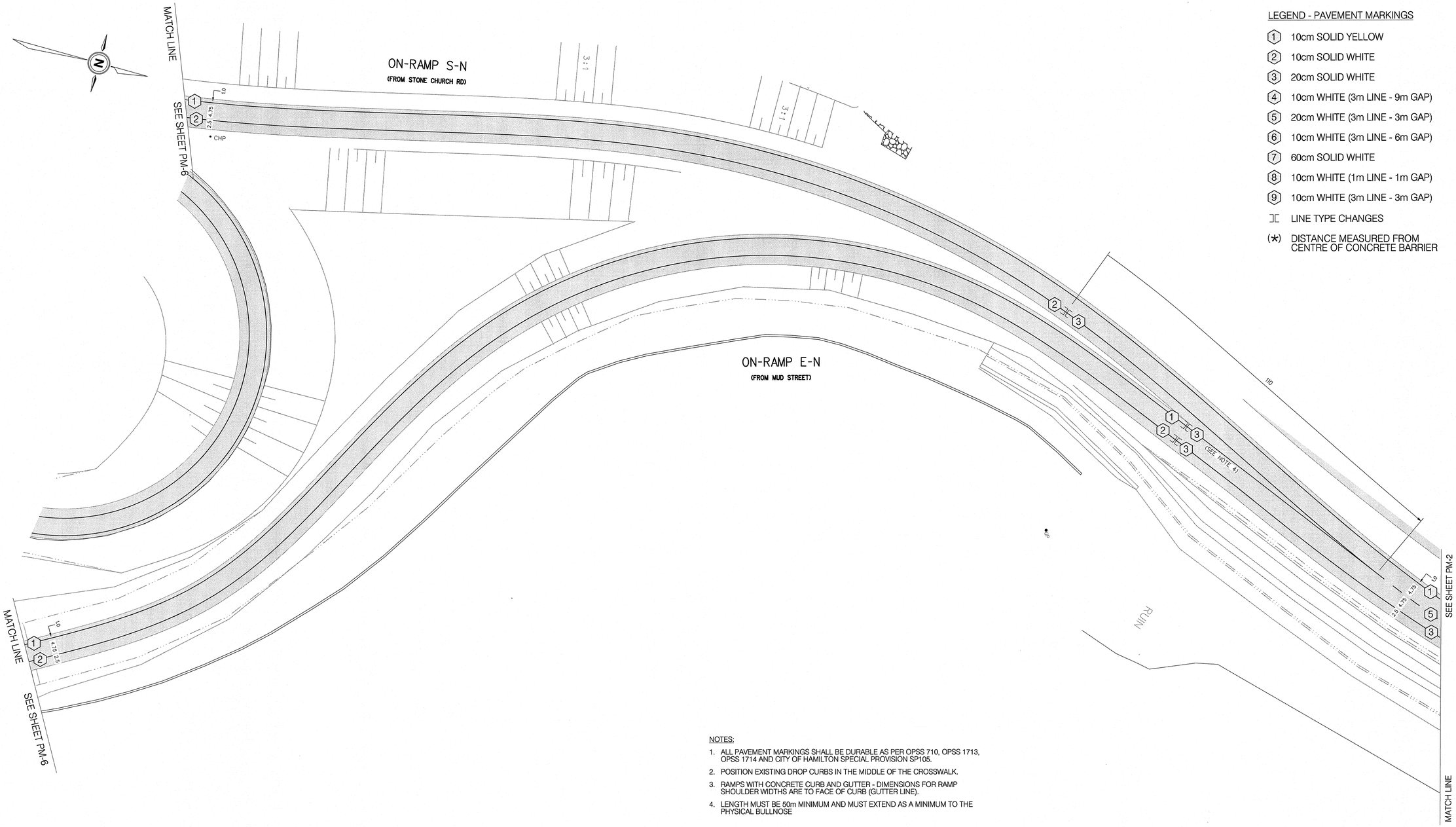
2015-08 BASE

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DT: XXXXXXX

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX-XXXXXXXX



LEGEND - PAVEMENT MARKINGS

1. 10cm SOLID YELLOW
2. 10cm SOLID WHITE
3. 20cm SOLID WHITE
4. 10cm WHITE (3m LINE - 9m GAP)
5. 20cm WHITE (3m LINE - 3m GAP)
6. 10cm WHITE (3m LINE - 6m GAP)
7. 60cm SOLID WHITE
8. 10cm WHITE (1m LINE - 1m GAP)
9. 10cm WHITE (3m LINE - 3m GAP)

LINE TYPE CHANGES

(*) DISTANCE MEASURED FROM CENTRE OF CONCRETE BARRIER

NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE DURABLE AS PER OPSS 710, OPSS 1713, OPSS 1714 AND CITY OF HAMILTON SPECIAL PROVISION SP105.
2. POSITION EXISTING DROP CURBS IN THE MIDDLE OF THE CROSSWALK.
3. RAMPS WITH CONCRETE CURB AND GUTTER - DIMENSIONS FOR RAMP SHOULDER WIDTHS ARE TO FACE OF CURB (GUTTER LINE).
4. LENGTH MUST BE 50m MINIMUM AND MUST EXTEND AS A MINIMUM TO THE PHYSICAL BULLNOSE

LEGEND

PROPOSED	EXISTING	
■	■	TRAFFIC SIGNAL CONTROLLER
■	■	DISCONNECT BOX, SERVICE ENTRANCE
■	■	TRAFFIC JUNCTION BOX
● TSUP	● TSU	TRAFFIC HANDHOLE
● TSP	● TSP	POLE
		POST
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
HYD	HYD	PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
		FIRE HYDRANT
P.P.I.	P.I.	POINT OF INTERSECTION
T.P.	T.P.	TANGENT POINT

PROPOSED	EXISTING	
		FACE OF CURB, BACK OF CURB
		FRONT OF GUTTER, FACE OF CURB
		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
		UNCURBED EDGE OF PAVEMENT
		CONCRETE
		VEHICLE APPROACH / DRIVEWAY
		BOTTOM OF PEDESTRIAN CURB DEPRESSIONS
	X	FENCE LINE
		ROAD ALLOWANCE / PROPERTY LINE
		LOOP DETECTORS
		PROJECT LIMITS

POLE CODES FORMAT: TYPE, LENGTH, OWNER, POLE NO. (MAY BE TRUNCATED)

TYPE:		OWNER:	
CP	CONCRETE	B	BELL TELEPHONE
CP-T	CONCRETE-TEMPORARY	C	CITY, STREET LIGHTING
DP-C	DECORATIVE-CONCRETE	HO	HYDRO ONE
DP-M	DECORATIVE-METAL	HU	HORIZON UTILITES
MP	METAL	MTO	MINISTRY OF TRANSPORTATION
SU	SIGNAL UTILITY	T	CITY, TRAFFIC
WP	WOOD	T-HD	CITY, TRAFFIC, HEAVY DUTY
WP-T	WOOD-TEMPORARY	PVT	PRIVATE

PARKING REGULATIONS

NREGS	NO REGULATIONS	NPLZ	NO PARKING LOADING ZONE
NPA	NO PARKING ANYTIME	CVLZ	COMMERCIAL VEHICLE LOADING ZONE
NSA	NO STOPPING ANYTIME	SBLZ	SCHOOL BUS LOADING ZONE
NSAM	NO STOPPING 7am-9am	WCLZ	WHEELCHAIR LOADING ZONE
NSPM	NO STOPPING 4pm-6pm	ASP	ALTERNATE SIDE PARKING

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FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON	SCALE: 1:500	DRAWING No.:
PRINTED: 3/7/2019	DESIGN: SR/SP	PM-7

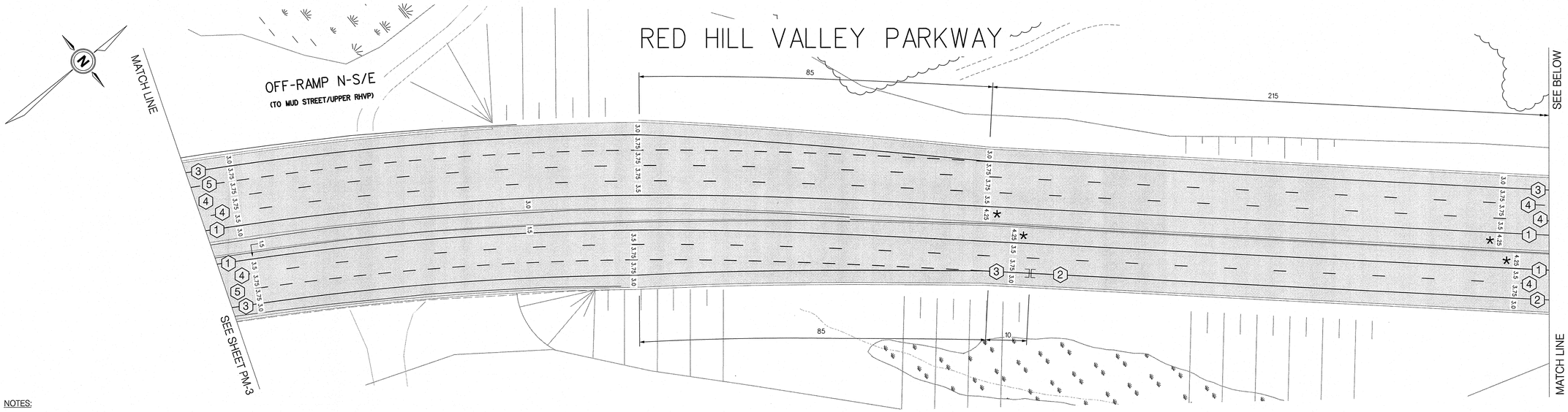
2015-08 BASE

DT: XXXXXXX

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

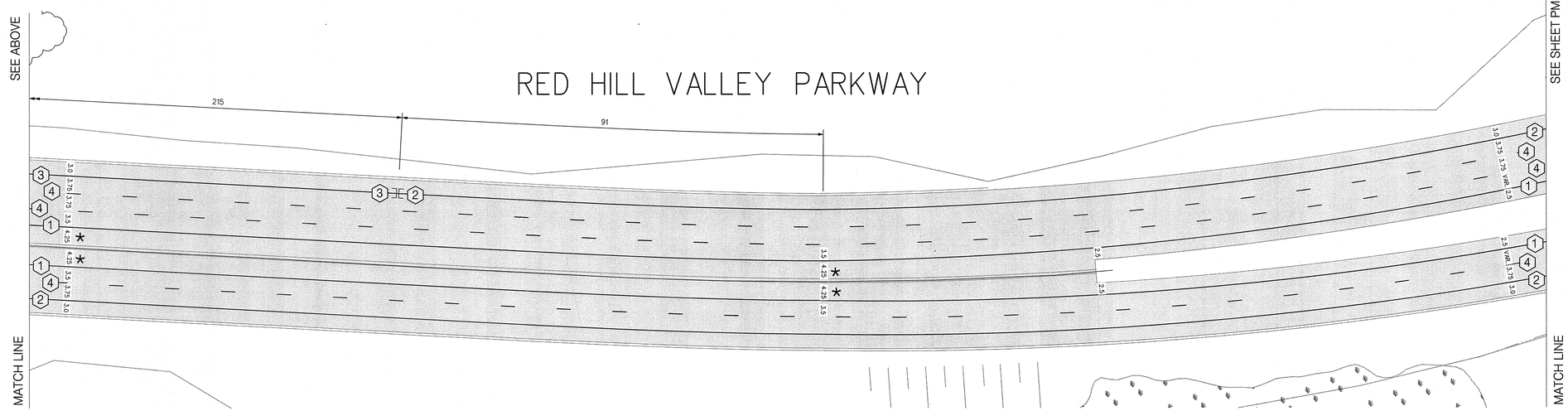
RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX:XXXXXXXX



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LEGEND - PAVEMENT MARKINGS

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2. 10cm SOLID WHITE
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5. 20cm WHITE (3m LINE - 3m GAP)
6. 10cm WHITE (3m LINE - 6m GAP)
7. 60cm SOLID WHITE
8. 10cm WHITE (1m LINE - 1m GAP)
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LINE TYPE CHANGES

(*) DISTANCE MEASURED FROM CENTRE OF CONCRETE BARRIER

LEGEND

PROPOSED	EXISTING	
■	■	TRAFFIC SIGNAL CONTROLLER
■	■	DISCONNECT BOX, SERVICE ENTRANCE
■	■	TRAFFIC JUNCTION BOX
■ TSUP TSP	■ TSU TSP	TRAFFIC HANDHOLE
		POLE
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
HYD	HYD	PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
		FIRE HYDRANT
P.P.I. T.P.	P.I. T.P.	POINT OF INTERSECTION
		TANGENT POINT

PROPOSED	EXISTING	
		FACE OF CURB, BACK OF CURB
		FRONT OF GUTTER, FACE OF CURB
		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
		UNCURBED EDGE OF PAVEMENT
		CONCRETE
		VEHICLE APPROACH / DRIVEWAY
		BOTTOM OF PEDESTRIAN CURB DEPRESSIONS
	X	FENCE LINE
		ROAD ALLOWANCE / PROPERTY LINE
		LOOP DETECTORS
		PROJECT LIMITS

POLE CODES FORMAT: TYPE, LENGTH, OWNER, POLE NO. (MAY BE TRUNCATED)

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CP	CONCRETE	B	BELL TELEPHONE
CP-T	CONCRETE-TEMPORARY	C	CITY, STREET LIGHTING
DP-C	DECORATIVE-CONCRETE	HO	HYDRO ONE
DP-M	DECORATIVE-METAL	HU	HORIZON UTILITES
MP	METAL	MTO	MINISTRY OF TRANSPORTATION
SU	SIGNAL UTILITY	T	CITY, TRAFFIC
WP	WOOD	T-HD	CITY, TRAFFIC, HEAVY DUTY
WP-T	WOOD-TEMPORARY	PVT	PRIVATE

PARKING REGULATIONS

NREGS	NO REGULATIONS	NPLZ	NO PARKING LOADING ZONE
NPA	NO PARKING ANYTIME	CVLZ	COMMERCIAL VEHICLE LOADING ZONE
NSA	NO STOPPING ANYTIME	SBLZ	SCHOOL BUS LOADING ZONE
NSAM	NO STOPPING 7am-9am	WCLZ	WHEELCHAIR LOADING ZONE
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0 10 20 30 40 50 METRES

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PAVEMENT MARKINGS DESIGN

RED HILL VALLEY PARKWAY
FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON	SCALE: 1:500	DRAWING No.:
PRINTED: 3/7/2019	DESIGN: SR/SP	PM-8

2015-08 BASE

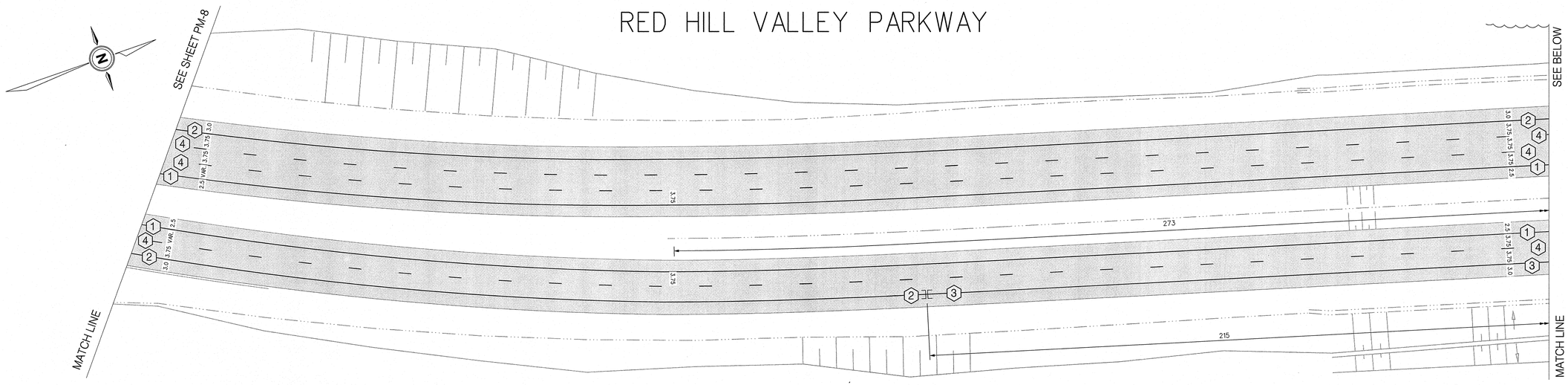
DT: XXXXXXX

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX-XXXXXXX

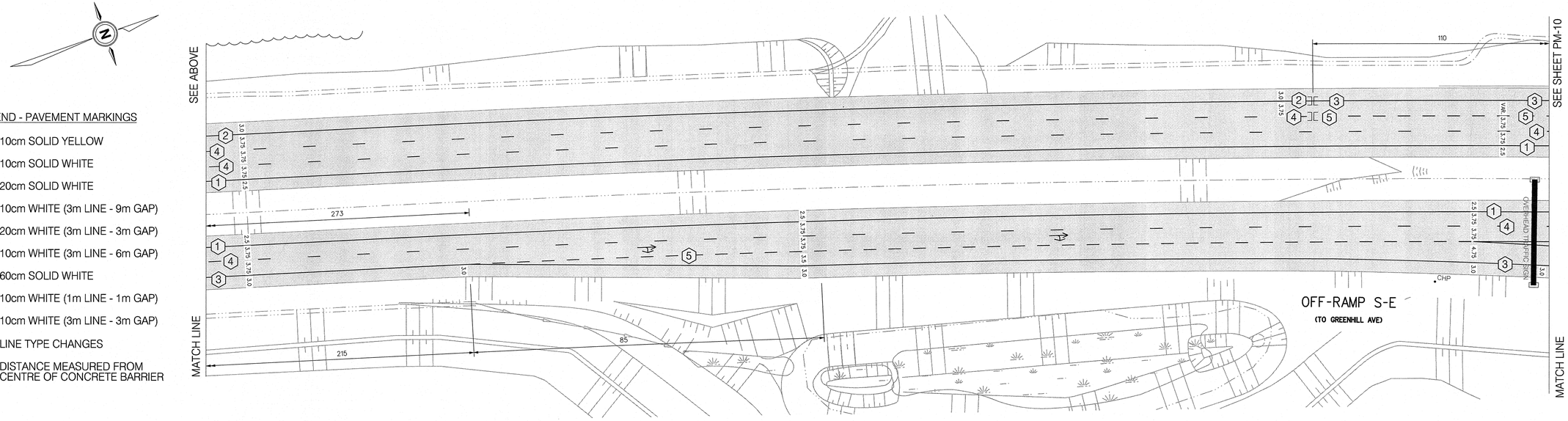
RED HILL VALLEY PARKWAY



NOTES:

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RED HILL VALLEY PARKWAY



LEGEND - PAVEMENT MARKINGS

- (1) 10cm SOLID YELLOW
- (2) 10cm SOLID WHITE
- (3) 20cm SOLID WHITE
- (4) 10cm WHITE (3m LINE - 9m GAP)
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- (7) 60cm SOLID WHITE
- (8) 10cm WHITE (1m LINE - 1m GAP)
- (9) 10cm WHITE (3m LINE - 3m GAP)
- LINE TYPE CHANGES
- (*) DISTANCE MEASURED FROM CENTRE OF CONCRETE BARRIER

LEGEND

PROPOSED	EXISTING	
■	■	TRAFFIC SIGNAL CONTROLLER
⋈	⋈	DISCONNECT BOX, SERVICE ENTRANCE
■	■	TRAFFIC JUNCTION BOX
■	■	TRAFFIC HANDHOLE
TSUP / TSP	TSU / TSP	POLE
		POST
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
HYD	HYD	PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
		FIRE HYDRANT
P.P.I.	P.I.	POINT OF INTERSECTION
T.P.	T.P.	TANGENT POINT

PROPOSED	EXISTING	
		FACE OF CURB, BACK OF CURB
		FRONT OF GUTTER, FACE OF CURB
		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
		UNCURBED EDGE OF PAVEMENT
		CONCRETE
		VEHICLE APPROACH / DRIVEWAY
		BOTTOM OF PEDESTRIAN CURB DEPRESSIONS
	X	FENCE LINE
		ROAD ALLOWANCE / PROPERTY LINE
		LOOP DETECTORS
		PROJECT LIMITS

POLE CODES FORMAT: TYPE, LENGTH, OWNER, POLE NO. (MAY BE TRUNCATED)

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DP-M	DECORATIVE-METAL	HU	HORIZON UTILITES
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WP-T	WOOD-TEMPORARY	PVT	PRIVATE

PARKING REGULATIONS

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NSPM	NO STOPPING 4pm-6pm	ASP	ALTERNATE SIDE PARKING

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0 10 20 30 40 50 METRES

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PAVEMENT MARKINGS DESIGN

RED HILL VALLEY PARKWAY
FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON,
TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND
TRAFFIC, PUBLIC WORKS DEPARTMENT

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PRINTED: 3/7/2019	DESIGN: SR/SP	PM-9

2015-08 BASE

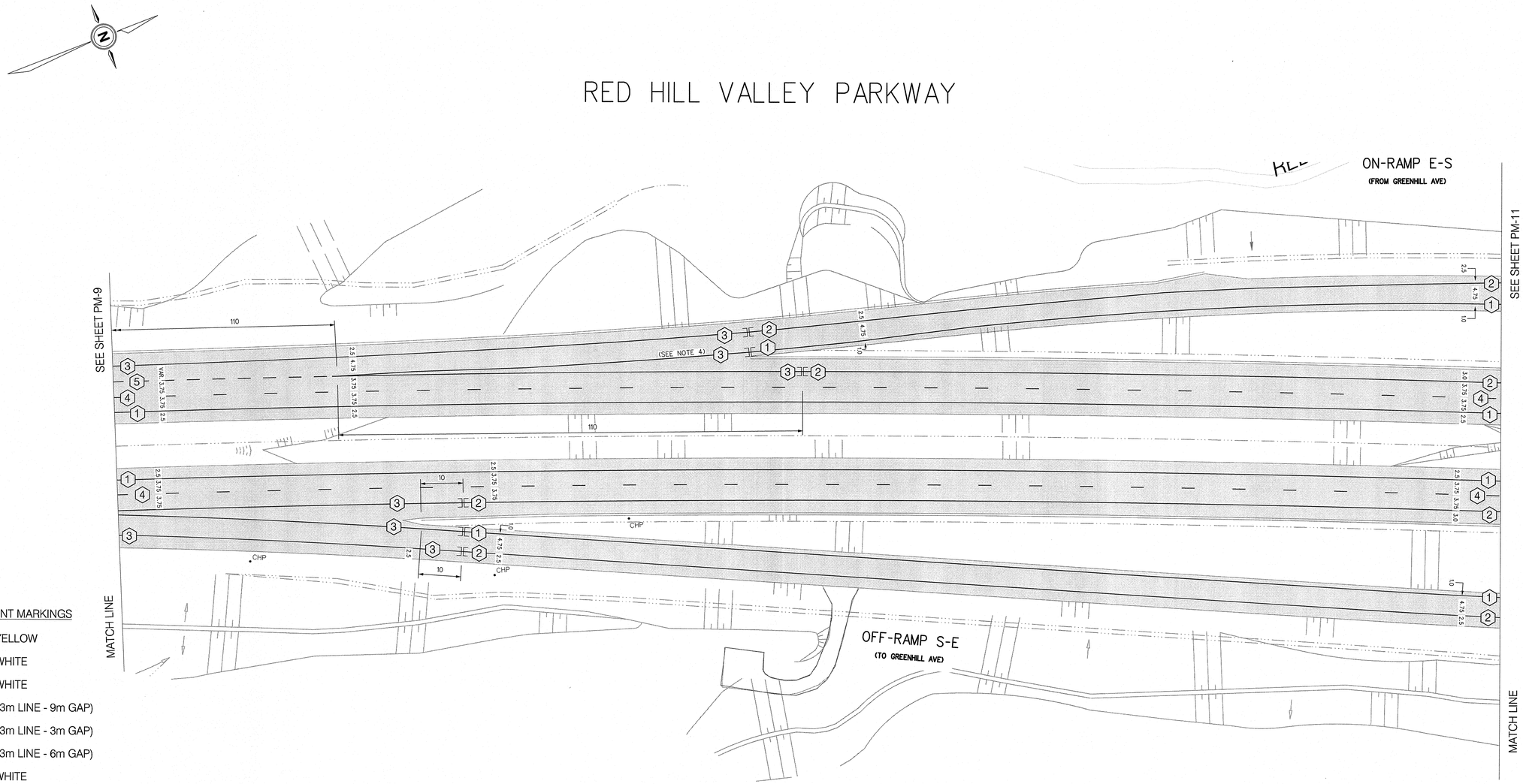
DT: XXXXXXX

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX-XXXXXXXX

RED HILL VALLEY PARKWAY



LEGEND - PAVEMENT MARKINGS

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2. 10cm SOLID WHITE
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PROPOSED	EXISTING	
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• TSP	• TSP	POLE
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T.P.	T.P.	POINT OF INTERSECTION
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PROPOSED	EXISTING	
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		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
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PAVEMENT MARKINGS DESIGN

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TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

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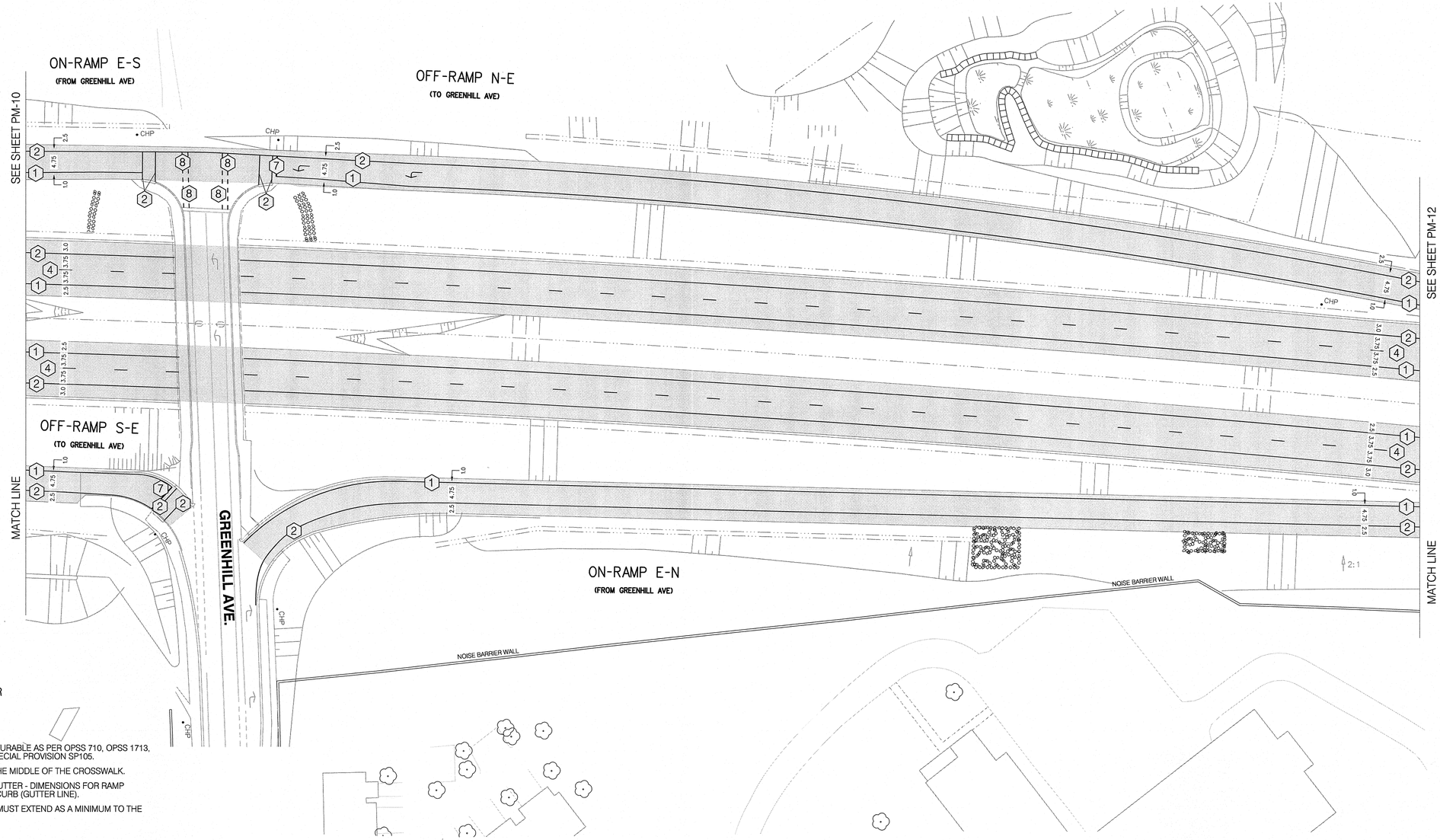
RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DT: XXXXXXX

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

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RED HILL VALLEY PARKWAY



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LEGEND

PROPOSED	EXISTING	
■	■	TRAFFIC SIGNAL CONTROLLER
		DISCONNECT BOX, SERVICE ENTRANCE
■	■	TRAFFIC JUNCTION BOX
■ ● TSUP ● TSP	■ ● TSU ● TSP	TRAFFIC HANDHOLE
		POST
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
HYD	HYD	PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
		FIRE HYDRANT
P.P.I.	P.I.	POINT OF INTERSECTION
T.P.	T.P.	TANGENT POINT

PROPOSED	EXISTING	
		FACE OF CURB, BACK OF CURB
		FRONT OF GUTTER, FACE OF CURB
		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
		UNCURBED EDGE OF PAVEMENT
		CONCRETE
		VEHICLE APPROACH / DRIVEWAY
		BOTTOM OF PEDESTRIAN CURB DEPRESSIONS
	X	FENCE LINE
		ROAD ALLOWANCE / PROPERTY LINE
		LOOP DETECTORS
		PROJECT LIMITS

POLE CODES FORMAT: TYPE, LENGTH, OWNER, POLE NO. (MAY BE TRUNCATED)

TYPE:		OWNER:	
CP	CONCRETE	B	BELL TELEPHONE
CP-T	CONCRETE-TEMPORARY	C	CITY, STREET LIGHTING
DP-C	DECORATIVE-CONCRETE	HO	HYDRO ONE
DP-M	DECORATIVE-METAL	HU	HORIZON UTILITES
MP	METAL	MTO	MINISTRY OF TRANSPORTATION
SU	SIGNAL UTILITY	T	CITY, TRAFFIC
WP	WOOD	T-HD	CITY, TRAFFIC, HEAVY DUTY
WP-T	WOOD-TEMPORARY	PVT	PRIVATE

PARKING REGULATIONS

NREGS	NO REGULATIONS	NPLZ	NO PARKING LOADING ZONE
NPA	NO PARKING ANYTIME	CVLZ	COMMERCIAL VEHICLE LOADING ZONE
NSA	NO STOPPING ANYTIME	SBLZ	SCHOOL BUS LOADING ZONE
NSAM	NO STOPPING 7am-9am	WCLZ	WHEELCHAIR LOADING ZONE
NSPM	NO STOPPING 4pm-6pm	ASP	ALTERNATE SIDE PARKING

STANDARD PRACTICES, UNLESS NOTED

- DIMENSIONS ARE METRES UNLESS OTHERWISE NOTED
- SIDEWALKS AND ISLANDS AT ALL PEDESTRIAN CROSSINGS TO HAVE WHEELCHAIR DEPRESSIONS BETWEEN CROSSWALK LINES
- DIRECTIONAL LINES IN PEDESTRIAN CROSSINGS NOT SHOWN
- CROSSING STRIPES FOR LADDER CROSSWALKS TO BE 450mm WIDE WITH 450mm SPACING.
- POINT OF INTERSECTION TO CROSSWALK: 0.6m
- POINT OF INTERSECTION TO TERMINUS OF LONGITUDINAL LINES WHERE NO STOP BAR: 3.0m
- STOP BAR WIDTH: 0.6m AT 1.0m SET-BACK FROM CROSSWALK
- BICYCLE SIGNING AND MARKINGS FROM OTM BOOK 18 AND TAC, BIKEWAY TRAFFIC CONTROL GUIDELINES FOR CANADA, FEB. 2012.
- LANE DIMENSIONS TO ℄ OF MARKINGS, AND EDGE OF ASPHALT

0 10 20 30 40 50 METRES

No.	DATE	DRAWN	REVISION DETAILS
0	2019.02	SP	ISSUED FOR CITY REVIEW- FEBRUARY 2019

CHECKED:

APPROVAL:

MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

MM/DD/YY

PAVEMENT MARKINGS DESIGN

RED HILL VALLEY PARKWAY
FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON | SCALE: 1:500

PRINTED: 3/7/2019 | DESIGN: SR/SP

DRAWING No.: PM-11

2015-08 BASE

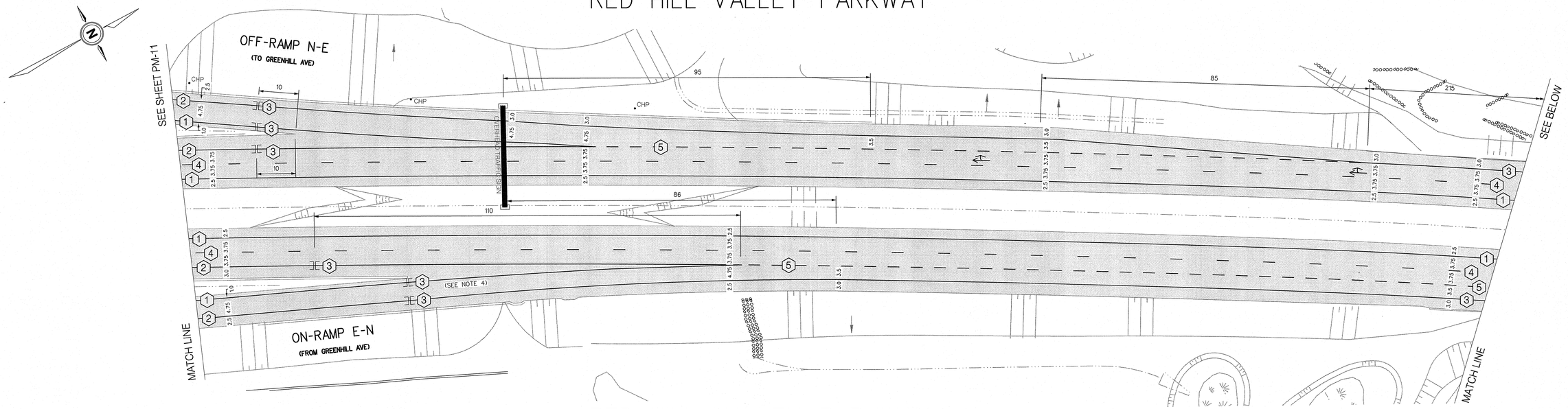
RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DT-XXXXXXXX

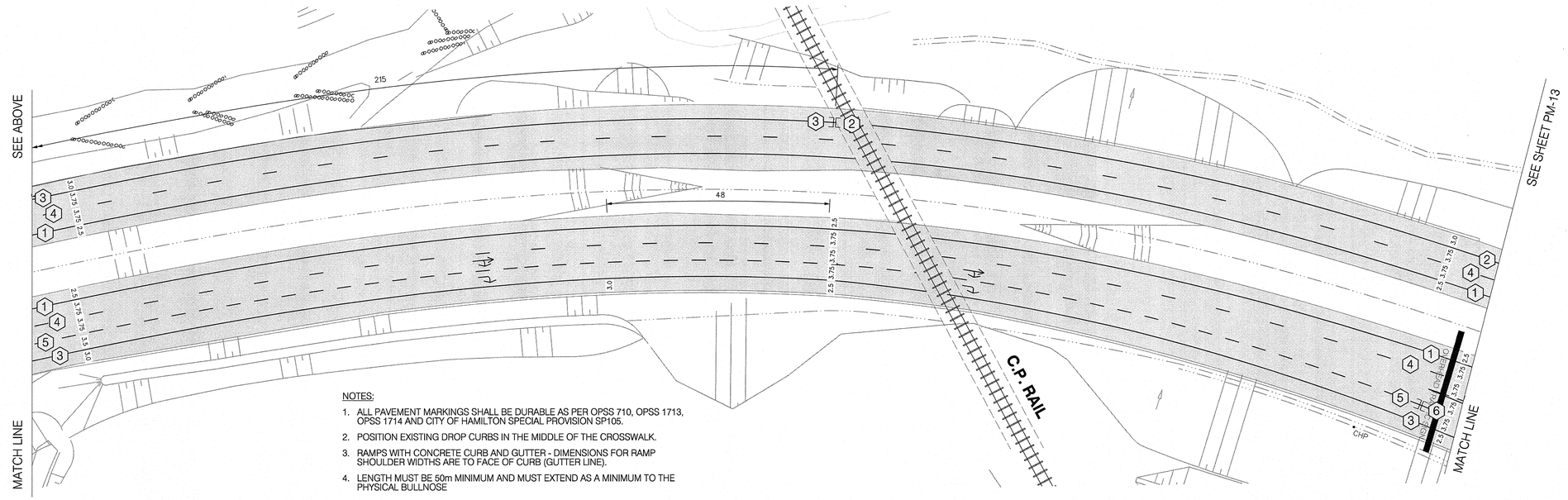
RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX-XXXXXXXX

RED HILL VALLEY PARKWAY



RED HILL VALLEY PARKWAY



LEGEND - PAVEMENT MARKINGS

1. 10cm SOLID YELLOW
2. 10cm SOLID WHITE
3. 20cm SOLID WHITE
4. 10cm WHITE (3m LINE - 9m GAP)
5. 20cm WHITE (3m LINE - 3m GAP)
6. 10cm WHITE (3m LINE - 6m GAP)
7. 60cm SOLID WHITE
8. 10cm WHITE (1m LINE - 1m GAP)
9. 10cm WHITE (3m LINE - 3m GAP)

LINE TYPE CHANGES

(*) DISTANCE MEASURED FROM CENTRE OF CONCRETE BARRIER

NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE DURABLE AS PER OPSS 710, OPSS 1713, OPSS 1714 AND CITY OF HAMILTON SPECIAL PROVISION SP105.
2. POSITION EXISTING DROP CURBS IN THE MIDDLE OF THE CROSSWALK.
3. RAMPS WITH CONCRETE CURB AND GUTTER - DIMENSIONS FOR RAMP SHOULDER WIDTHS ARE TO FACE OF CURB (GUTTER LINE).
4. LENGTH MUST BE 50m MINIMUM AND MUST EXTEND AS A MINIMUM TO THE PHYSICAL BULLNOSE

LEGEND

PROPOSED	EXISTING	
■	■	TRAFFIC SIGNAL CONTROLLER
■	■	DISCONNECT BOX, SERVICE ENTRANCE
■	■	TRAFFIC JUNCTION BOX
■ TSUP ● TSP	■ TSU ● TSP	TRAFFIC HANDHOLE
		POLE
		POST
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
HYD	HYD	PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
		FIRE HYDRANT
P.P.I.	P.I.	POINT OF INTERSECTION
T.P.	T.P.	TANGENT POINT

PROPOSED	EXISTING	
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		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
		UNCURBED EDGE OF PAVEMENT
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		VEHICLE APPROACH / DRIVEWAY
		BOTTOM OF PEDESTRIAN CURB DEPRESSIONS
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MP	METAL	MTO	MINISTRY OF TRANSPORTATION
SU	SIGNAL UTILITY	T	CITY, TRAFFIC
WP	WOOD	T-HD	CITY, TRAFFIC, HEAVY DUTY
WP-T	WOOD-TEMPORARY	PVT	PRIVATE

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0 10 20 30 40 50 METRES

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MM/DD/YY

PAVEMENT MARKINGS DESIGN

RED HILL VALLEY PARKWAY
FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON	SCALE: 1:500	DRAWING No.:
PRINTED: 3/7/2019	DESIGN: SR/SP	PM-12

2015-08 BASE

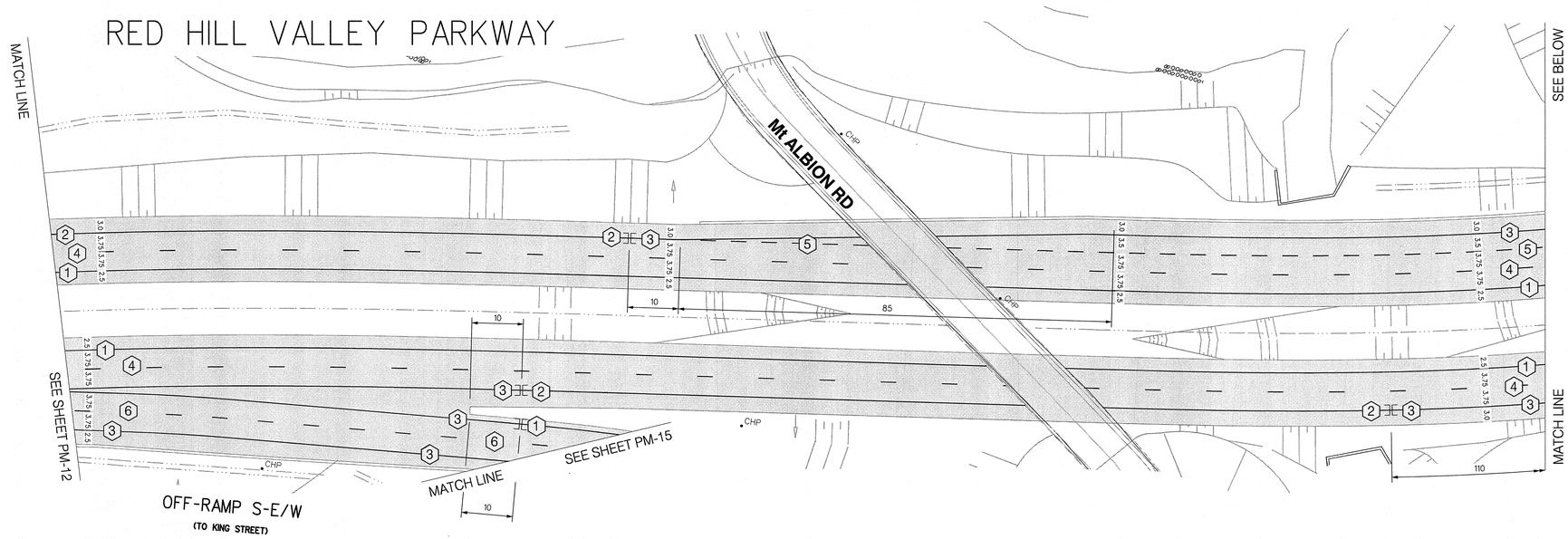
DT: XXXXXXX

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX-XXXXXXXX

RED HILL VALLEY PARKWAY



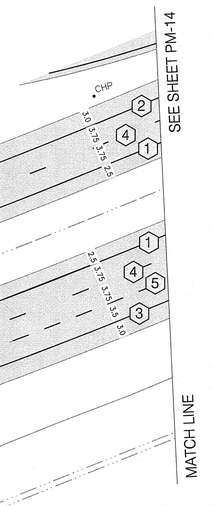
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LINE TYPE CHANGES

(*) DISTANCE MEASURED FROM CENTRE OF CONCRETE BARRIER

RED HILL VALLEY PARKWAY



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LEGEND

PROPOSED	EXISTING	
■	■	TRAFFIC SIGNAL CONTROLLER
		DISCONNECT BOX, SERVICE ENTRANCE
■	■	TRAFFIC JUNCTION BOX
■	■	TRAFFIC HANDHOLE
TSUP	TSU	POLE
TSP	TSP	POST
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
		PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
HYD	HYD	FIRE HYDRANT
P.P.I.	P.I.	POINT OF INTERSECTION
T.P.	T.P.	TANGENT POINT

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		FRONT OF GUTTER, FACE OF CURB
		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
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		VEHICLE APPROACH / DRIVEWAY
		BOTTOM OF PEDESTRIAN CURB DEPRESSIONS
	X	FENCE LINE
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		PROJECT LIMITS

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WP	WOOD	T-HD	CITY, TRAFFIC, HEAVY DUTY
WP-T	WOOD-TEMPORARY	PVT	PRIVATE

PARKING REGULATIONS

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- LANE DIMENSIONS TO ℄ OF MARKINGS, AND EDGE OF ASPHALT

0 10 20 30 40 50 METRES

No.	DATE	DRAWN	REVISION DETAILS
0	2019.02	SP	ISSUED FOR CITY REVIEW- FEBRUARY 2019

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APPROVAL:

MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

MM/DD/YY

PAVEMENT MARKINGS DESIGN

RED HILL VALLEY PARKWAY
FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON | SCALE: 1:500

PRINTED: 3/7/2019 | DESIGN: SR/SP

DRAWING No.: PM-13

2015-08 BASE

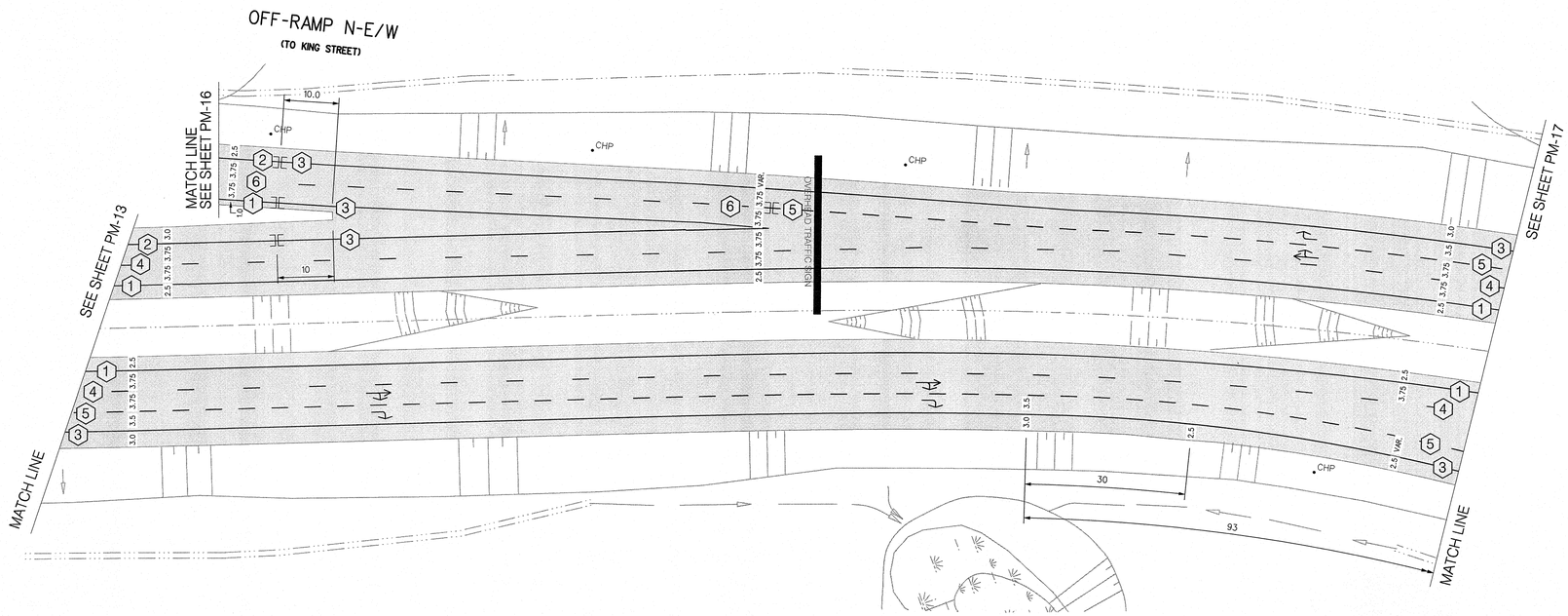
DT: XXXXXXX

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX-XXXXXXXX

RED HILL VALLEY PARKWAY



LEGEND - PAVEMENT MARKINGS

1. 10cm SOLID YELLOW
2. 10cm SOLID WHITE
3. 20cm SOLID WHITE
4. 10cm WHITE (3m LINE - 9m GAP)
5. 20cm WHITE (3m LINE - 3m GAP)
6. 10cm WHITE (3m LINE - 6m GAP)
7. 60cm SOLID WHITE
8. 10cm WHITE (1m LINE - 1m GAP)
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LINE TYPE CHANGES

(*) DISTANCE MEASURED FROM CENTRE OF CONCRETE BARRIER

NOTES:

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4. LENGTH MUST BE 50m MINIMUM AND MUST EXTEND AS A MINIMUM TO THE PHYSICAL BULLNOSE

LEGEND

PROPOSED	EXISTING	
■	■	TRAFFIC SIGNAL CONTROLLER
■	■	DISCONNECT BOX, SERVICE ENTRANCE
■	■	TRAFFIC JUNCTION BOX
■ TSUP TSP	■ TSU TSP	TRAFFIC HANDHOLE
•	•	POLE
		POST
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
HYD	HYD	PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
		FIRE HYDRANT
+ P.P.I.	+ P.I.	POINT OF INTERSECTION
T.P.	T.P.	TANGENT POINT

PROPOSED	EXISTING	
		FACE OF CURB, BACK OF CURB
		FRONT OF GUTTER, FACE OF CURB
		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
		UNCURBED EDGE OF PAVEMENT
		CONCRETE
		VEHICLE APPROACH / DRIVEWAY
		BOTTOM OF PEDESTRIAN CURB DEPRESSIONS
	X	FENCE LINE
		ROAD ALLOWANCE / PROPERTY LINE
		LOOP DETECTORS
		PROJECT LIMITS

POLE CODES FORMAT: TYPE, LENGTH, OWNER, POLE NO. (MAY BE TRUNCATED)

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DP-M	DECORATIVE-METAL	HU	HORIZON UTILITES
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WP	WOOD	T-HD	CITY, TRAFFIC, HEAVY DUTY
WP-T	WOOD-TEMPORARY	PVT	PRIVATE

PARKING REGULATIONS

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0 10 20 30 40 50 METRES

No.	DATE	DRAWN	REVISION DETAILS
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PAVEMENT MARKINGS DESIGN

RED HILL VALLEY PARKWAY
FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON | SCALE: 1:500

PRINTED: 3/7/2019 | DESIGN: SR/SP

DRAWING No.: PM-14

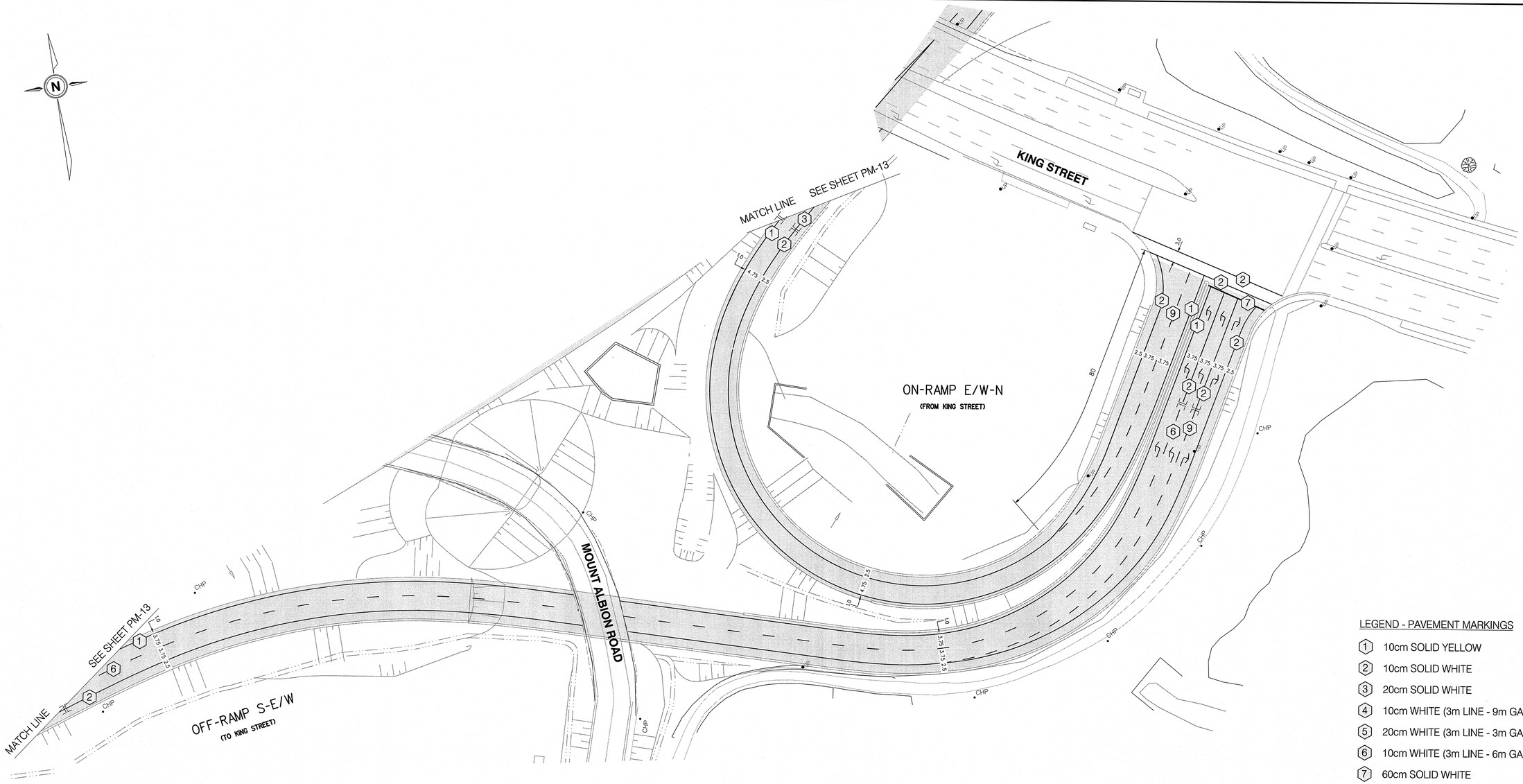
DT: XXXXXXX

2015-08 BASE

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX:XXXXXXXX



LEGEND - PAVEMENT MARKINGS

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		POST
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CHECKED:

APPROVAL:

MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

MM/DD/YY

PAVEMENT MARKINGS DESIGN

RED HILL VALLEY PARKWAY
FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON | SCALE: 1:500

PRINTED: 3/7/2019 | DESIGN: SR/SP

DRAWING No.: PM-15

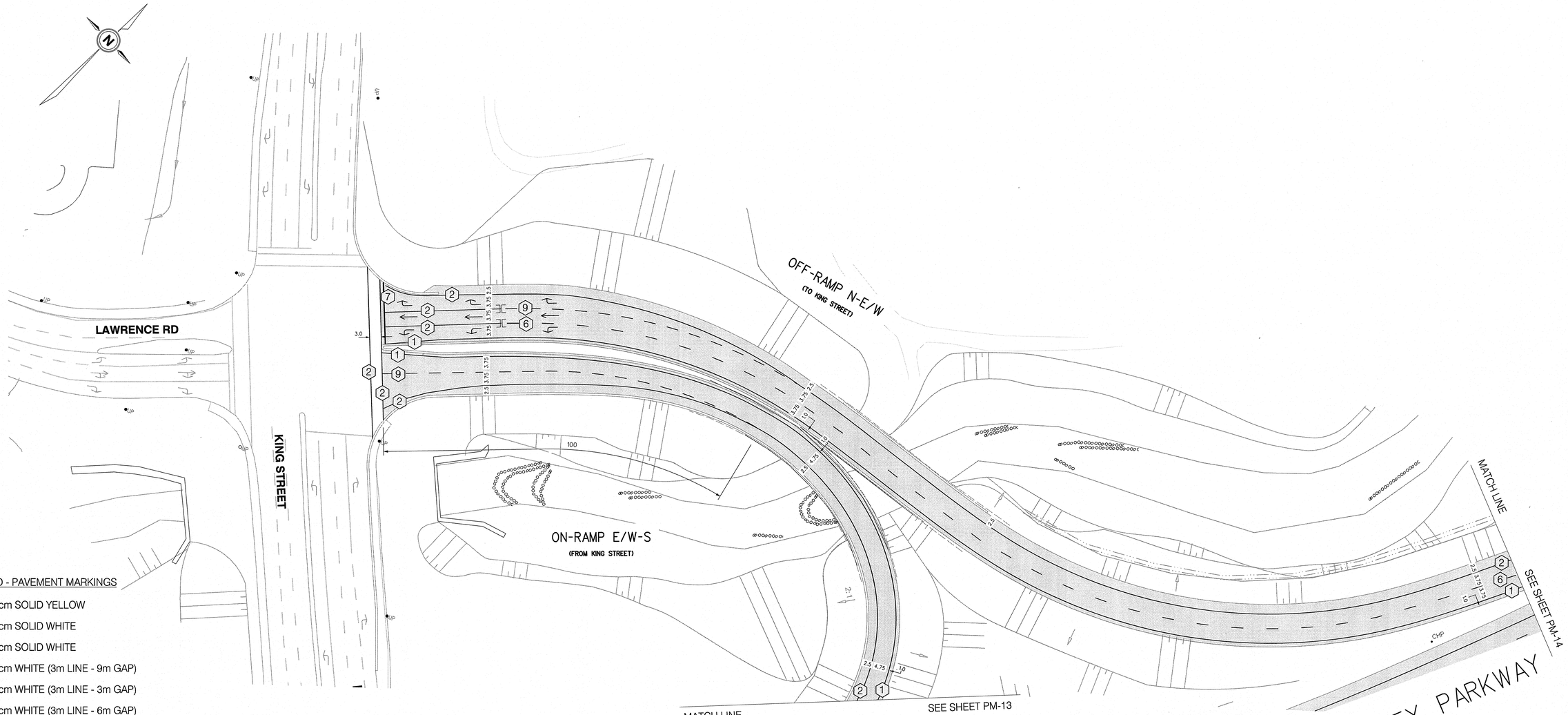
2015-08 BASE

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DT: XXXXXXX

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX-XXXXXXXX



LEGEND - PAVEMENT MARKINGS

1. 10cm SOLID YELLOW
2. 10cm SOLID WHITE
3. 20cm SOLID WHITE
4. 10cm WHITE (3m LINE - 9m GAP)
5. 20cm WHITE (3m LINE - 3m GAP)
6. 10cm WHITE (3m LINE - 6m GAP)
7. 60cm SOLID WHITE
8. 10cm WHITE (1m LINE - 1m GAP)
9. 10cm WHITE (3m LINE - 3m GAP)

LINE TYPE CHANGES

(*) DISTANCE MEASURED FROM CENTRE OF CONCRETE BARRIER

NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE DURABLE AS PER OPSS 710, OPSS 1713, OPSS 1714 AND CITY OF HAMILTON SPECIAL PROVISION SP105.
2. POSITION EXISTING DROP CURBS IN THE MIDDLE OF THE CROSSWALK.
3. RAMPS WITH CONCRETE CURB AND GUTTER - DIMENSIONS FOR RAMP SHOULDER WIDTHS ARE TO FACE OF CURB (GUTTER LINE).
4. LENGTH MUST BE 50m MINIMUM AND MUST EXTEND AS A MINIMUM TO THE PHYSICAL BULLNOSE

LEGEND

PROPOSED	EXISTING	
■	■	TRAFFIC SIGNAL CONTROLLER
⋈	⋈	DISCONNECT BOX, SERVICE ENTRANCE
■	■	TRAFFIC JUNCTION BOX
■ ● TSUP TSP	■ ● TSU TSP	TRAFFIC HANDHOLE
●	●	POLE
●	●	POST
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
HYD	HYD	PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
		FIRE HYDRANT
P.P.I. T.P.	P.I. T.P.	POINT OF INTERSECTION
T.P.	T.P.	TANGENT POINT

PROPOSED	EXISTING	
		FACE OF CURB, BACK OF CURB
		FRONT OF GUTTER, FACE OF CURB
		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
		UNCURBED EDGE OF PAVEMENT
		CONCRETE
		VEHICLE APPROACH / DRIVEWAY
		BOTTOM OF PEDESTRIAN CURB DEPRESSIONS
	X	FENCE LINE
		ROAD ALLOWANCE / PROPERTY LINE
		LOOP DETECTORS
		PROJECT LIMITS

POLE CODES FORMAT: TYPE, LENGTH, OWNER, POLE NO. (MAY BE TRUNCATED)

TYPE:		OWNER:	
CP	CONCRETE	B	BELL TELEPHONE
CP-T	CONCRETE-TEMPORARY	C	CITY, STREET LIGHTING
DP-C	DECORATIVE-CONCRETE	HO	HYDRO ONE
DP-M	DECORATIVE-METAL	HU	HORIZON UTILITES
MP	METAL	MTO	MINISTRY OF TRANSPORTATION
SU	SIGNAL UTILITY	T	CITY, TRAFFIC
WP	WOOD	T-HD	CITY, TRAFFIC, HEAVY DUTY
WP-T	WOOD-TEMPORARY	PVT	PRIVATE

PARKING REGULATIONS

NREGS	NO REGULATIONS	NPLZ	NO PARKING LOADING ZONE
NPA	NO PARKING ANYTIME	CVLZ	COMMERCIAL VEHICLE LOADING ZONE
NSA	NO STOPPING ANYTIME	SBLZ	SCHOOL BUS LOADING ZONE
NSAM	NO STOPPING 7am-9am	WCLZ	WHEELCHAIR LOADING ZONE
NSPM	NO STOPPING 4pm-6pm	ASP	ALTERNATE SIDE PARKING

STANDARD PRACTICES, UNLESS NOTED

- DIMENSIONS ARE METRES UNLESS OTHERWISE NOTED
- SIDEWALKS AND ISLANDS AT ALL PEDESTRIAN CROSSINGS TO HAVE WHEELCHAIR DEPRESSIONS BETWEEN CROSSWALK LINES
- DIRECTIONAL LINES IN PEDESTRIAN CROSSINGS NOT SHOWN
- CROSSING STRIPES FOR LADDER CROSSWALKS TO BE 450mm WIDE WITH 450mm SPACING.
- POINT OF INTERSECTION TO CROSSWALK: 0.6m
- POINT OF INTERSECTION TO TERMINUS OF LONGITUDINAL LINES WHERE NO STOP BAR: 3.0m
- STOP BAR WIDTH: 0.6m AT 1.0m SET-BACK FROM CROSSWALK
- BICYCLE SIGNING AND MARKINGS FROM OTM BOOK 18 AND TAC, BIKEWAY TRAFFIC CONTROL GUIDELINES FOR CANADA, FEB. 2012.
- LANE DIMENSIONS TO ℄ OF MARKINGS, AND EDGE OF ASPHALT

0 10 20 30 40 50 METRES

No.	DATE	DRAWN	REVISION DETAILS
0	2019.02	SP	ISSUED FOR CITY REVIEW- FEBRUARY 2019

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MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

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RED HILL VALLEY PARKWAY
FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON | SCALE: 1:500

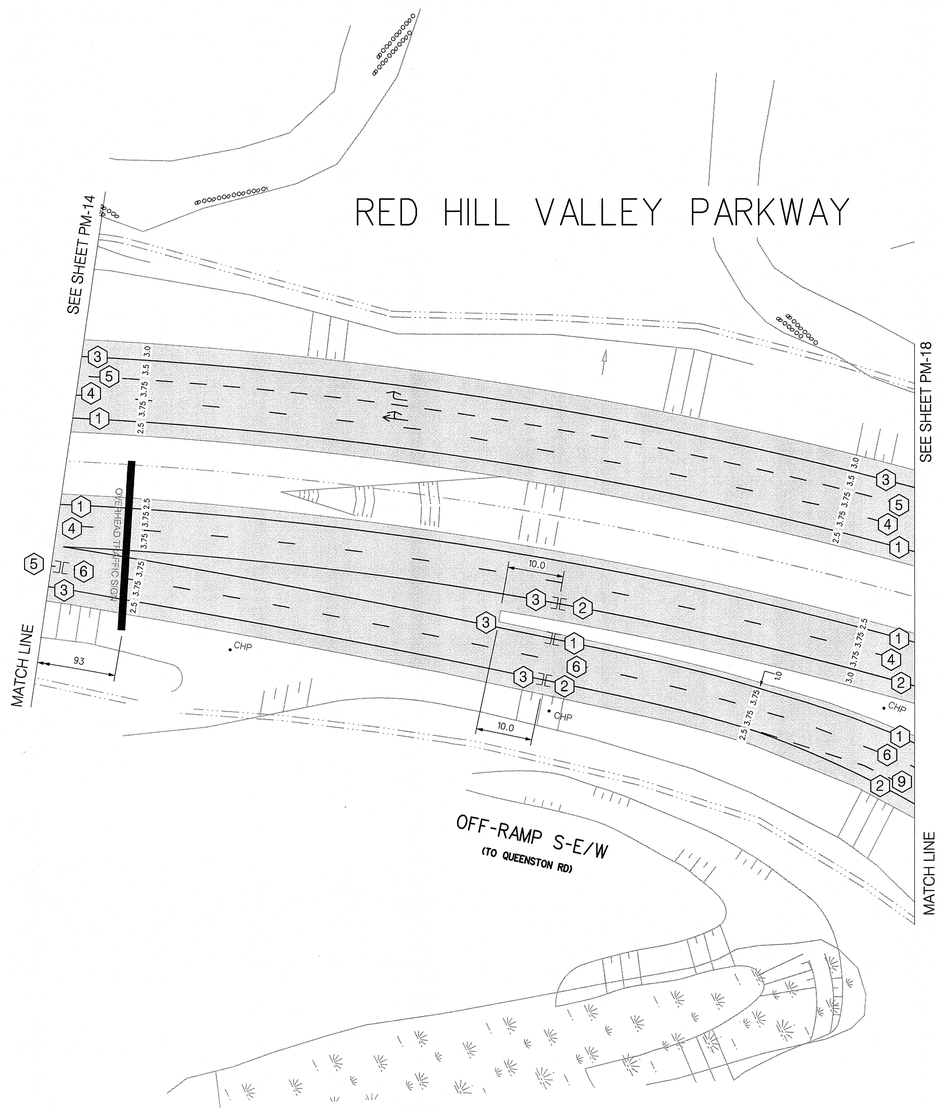
PRINTED: 3/7/2019 | DESIGN: SR/SP

DRAWING No.: PM-16

2015-08 BASE

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DT-XXXXXXX



LEGEND - PAVEMENT MARKINGS

1. 10cm SOLID YELLOW
2. 10cm SOLID WHITE
3. 20cm SOLID WHITE
4. 10cm WHITE (3m LINE - 9m GAP)
5. 20cm WHITE (3m LINE - 3m GAP)
6. 10cm WHITE (3m LINE - 6m GAP)
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LINE TYPE CHANGES

(*) DISTANCE MEASURED FROM CENTRE OF CONCRETE BARRIER

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4. LENGTH MUST BE 50m MINIMUM AND MUST EXTEND AS A MINIMUM TO THE PHYSICAL BULLNOSE

LEGEND

PROPOSED	EXISTING	
■	■	TRAFFIC SIGNAL CONTROLLER
⋈	⋈	DISCONNECT BOX, SERVICE ENTRANCE
■	■	TRAFFIC JUNCTION BOX
■	■	TRAFFIC HANDHOLE
TSUP	TSU	POLE
TSP	TSP	POST
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
		PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
HYD	HYD	FIRE HYDRANT
P.P.I.	P.I.	POINT OF INTERSECTION
T.P.	T.P.	TANGENT POINT

PROPOSED	EXISTING	
		FACE OF CURB, BACK OF CURB
		FRONT OF GUTTER, FACE OF CURB
		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
		UNCURBED EDGE OF PAVEMENT
		CONCRETE
		VEHICLE APPROACH / DRIVEWAY
		BOTTOM OF PEDESTRIAN CURB DEPRESSIONS
	X	FENCE LINE
		ROAD ALLOWANCE / PROPERTY LINE
		LOOP DETECTORS
		PROJECT LIMITS

POLE CODES FORMAT: TYPE, LENGTH, OWNER, POLE NO. (MAY BE TRUNCATED)

TYPE:		OWNER:	
CP	CONCRETE	B	BELL TELEPHONE
CP-T	CONCRETE-TEMPORARY	C	CITY, STREET LIGHTING
DP-C	DECORATIVE-CONCRETE	HO	HYDRO ONE
DP-M	DECORATIVE-METAL	HU	HORIZON UTILITES
MP	METAL	MTO	MINISTRY OF TRANSPORTATION
SU	SIGNAL UTILITY	T	CITY, TRAFFIC
WP	WOOD	T-HD	CITY, TRAFFIC, HEAVY DUTY
WP-T	WOOD-TEMPORARY	PVT	PRIVATE

PARKING REGULATIONS

NREGS	NO REGULATIONS	NPLZ	NO PARKING LOADING ZONE
NPA	NO PARKING ANYTIME	CVLZ	COMMERCIAL VEHICLE LOADING ZONE
NSA	NO STOPPING ANYTIME	SBLZ	SCHOOL BUS LOADING ZONE
NSAM	NO STOPPING 7am-9am	WCLZ	WHEELCHAIR LOADING ZONE
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STANDARD PRACTICES, UNLESS NOTED

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0 10 20 30 40 50 METRES

No.	DATE	DRAWN	REVISION DETAILS
0	2019.02	SP	ISSUED FOR CITY REVIEW- FEBRUARY 2019

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MM/DD/YY

PAVEMENT MARKINGS DESIGN

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FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

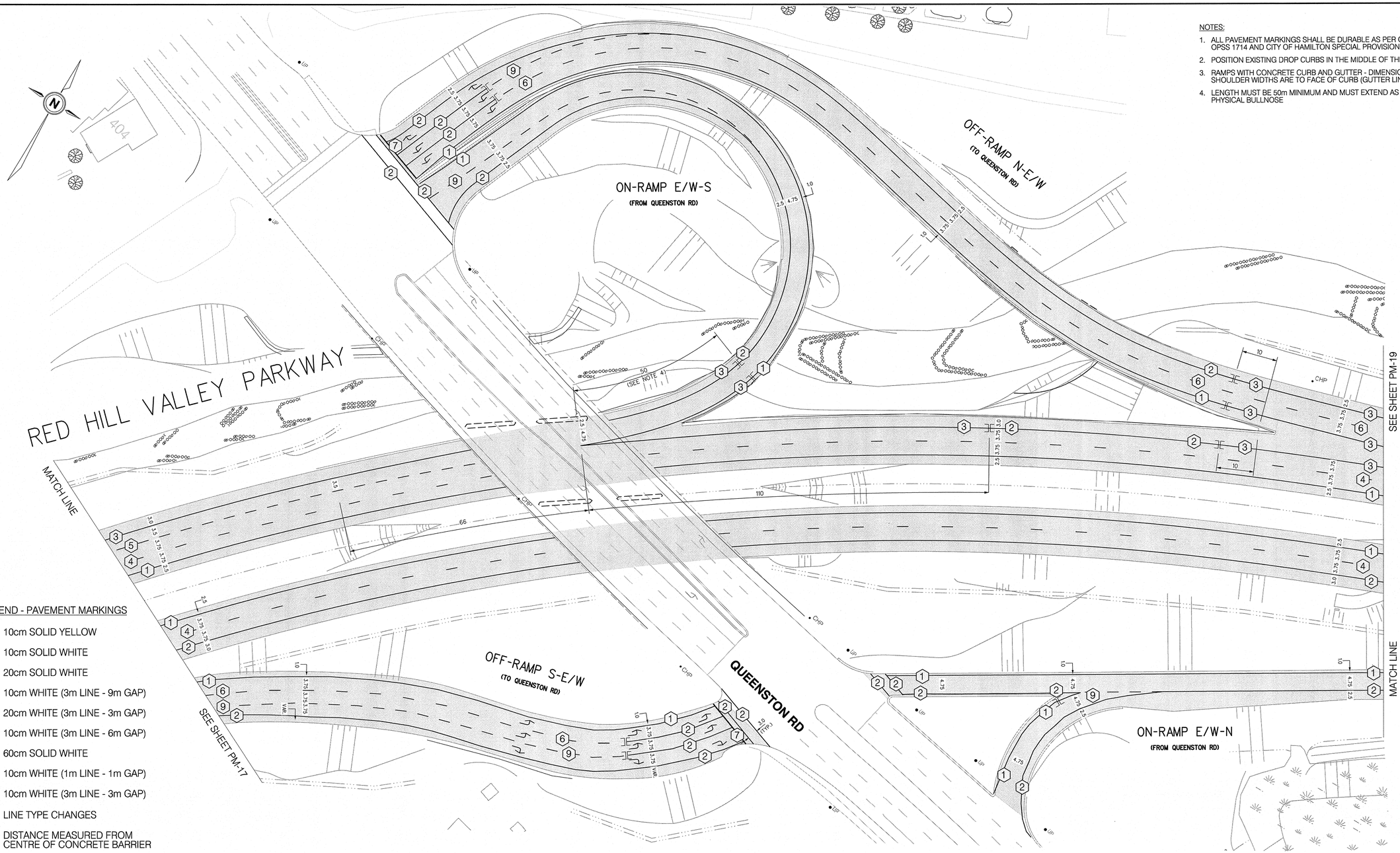
SURVEY DATE: CITY OF HAMILTON | SCALE: 1:500

PRINTED: 3/7/2019 | DESIGN: SR/SP

DRAWING No.: PM-17

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX-XXXXXXX



NOTES:

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4. LENGTH MUST BE 50m MINIMUM AND MUST EXTEND AS A MINIMUM TO THE PHYSICAL BULLNOSE

LEGEND - PAVEMENT MARKINGS

1. 10cm SOLID YELLOW
2. 10cm SOLID WHITE
3. 20cm SOLID WHITE
4. 10cm WHITE (3m LINE - 9m GAP)
5. 20cm WHITE (3m LINE - 3m GAP)
6. 10cm WHITE (3m LINE - 6m GAP)
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8. 10cm WHITE (1m LINE - 1m GAP)
9. 10cm WHITE (3m LINE - 3m GAP)

LINE TYPE CHANGES

(*) DISTANCE MEASURED FROM CENTRE OF CONCRETE BARRIER

LEGEND

PROPOSED	EXISTING	
■	■	TRAFFIC SIGNAL CONTROLLER
		DISCONNECT BOX, SERVICE ENTRANCE
■	■	TRAFFIC JUNCTION BOX
■ ● TSUP	■ ● TSU	TRAFFIC HANDHOLE
TSP	TSP	POST
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
HYD	HYD	PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
		FIRE HYDRANT
P.P.I.	P.I.	POINT OF INTERSECTION
T.P.	T.P.	TANGENT POINT

PROPOSED	EXISTING	
		FACE OF CURB, BACK OF CURB
		FRONT OF GUTTER, FACE OF CURB
		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
		UNCURBED EDGE OF PAVEMENT
		CONCRETE
		VEHICLE APPROACH / DRIVEWAY
		BOTTOM OF PEDESTRIAN CURB DEPRESSIONS
	X	FENCE LINE
		ROAD ALLOWANCE / PROPERTY LINE
		LOOP DETECTORS
		PROJECT LIMITS

POLE CODES FORMAT: TYPE, LENGTH, OWNER, POLE NO. (MAY BE TRUNCATED)

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CP-T	CONCRETE-TEMPORARY	C	CITY, STREET LIGHTING
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DP-M	DECORATIVE-METAL	HU	HORIZON UTILITIES
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WP-T	WOOD-TEMPORARY	PVT	PRIVATE

PARKING REGULATIONS

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STANDARD PRACTICES, UNLESS NOTED

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- LANE DIMENSIONS TO ℄ OF MARKINGS, AND EDGE OF ASPHALT

0 10 20 30 40 50 METRES

No.	DATE	DRAWN	REVISION DETAILS
0	2019.02	SP	ISSUED FOR CITY REVIEW- FEBRUARY 2019

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MM/DD/YY

PAVEMENT MARKINGS DESIGN

RED HILL VALLEY PARKWAY
FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON | SCALE: 1:500

PRINTED: 3/7/2019 | DESIGN: SR/SP

DRAWING No.: PM-18

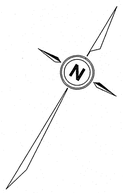
2015-08 BASE

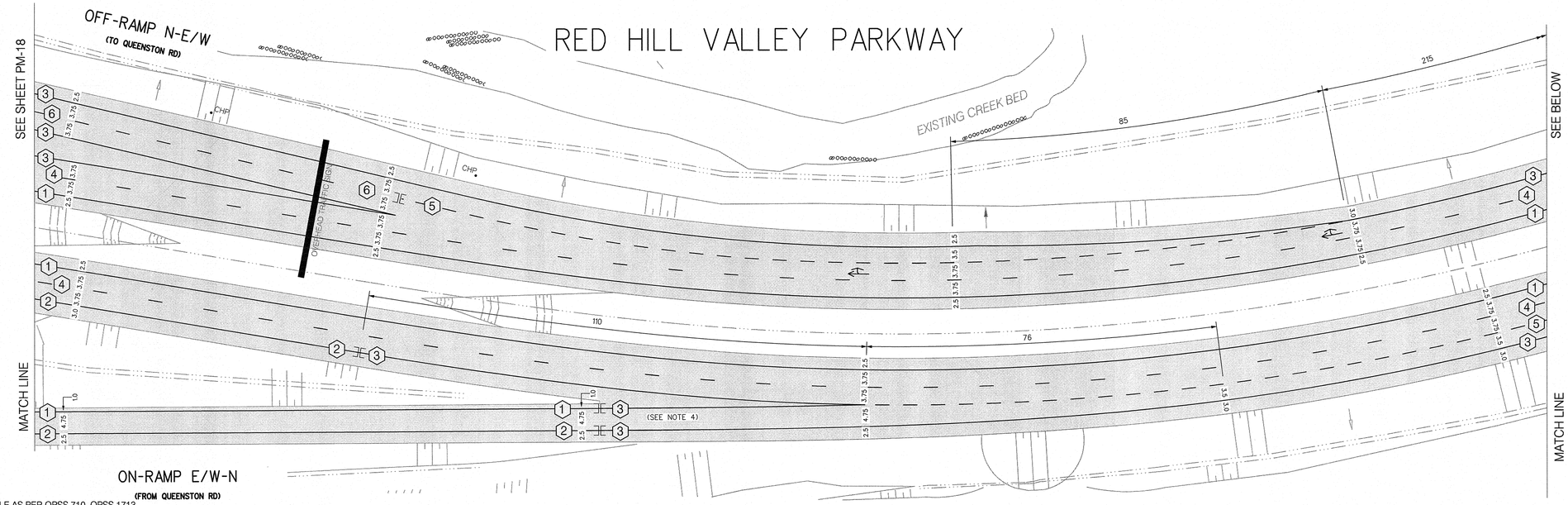
DT-XXXXXXX

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

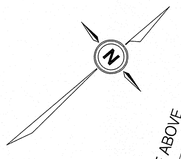
DRAWING No.: XX-XXXXXXX





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LINE TYPE CHANGES

(*) DISTANCE MEASURED FROM CENTRE OF CONCRETE BARRIER

LEGEND

PROPOSED	EXISTING	
■	■	TRAFFIC SIGNAL CONTROLLER
⋈	⋈	DISCONNECT BOX, SERVICE ENTRANCE
■	■	TRAFFIC JUNCTION BOX
■ TSUP TSP	■ TSU TSP	TRAFFIC HANDHOLE
•	•	POLE
•	•	POST
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
HYD	HYD	PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
		FIRE HYDRANT
+ P.P.I.	+ P.I.	POINT OF INTERSECTION
T.P.	T.P.	TANGENT POINT

PROPOSED	EXISTING	
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		FRONT OF GUTTER, FACE OF CURB
		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
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		VEHICLE APPROACH / DRIVEWAY
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	X	FENCE LINE
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		LOOP DETECTORS
		PROJECT LIMITS

POLE CODES FORMAT: TYPE, LENGTH, OWNER, POLE NO. (MAY BE TRUNCATED)

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TO: MTO QEW LIMITS

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SURVEY DATE: CITY OF HAMILTON	SCALE: 1:500	DRAWING No.: PM-19
PRINTED: 3/7/2019	DESIGN: SR/SP	

2015-08 BASE

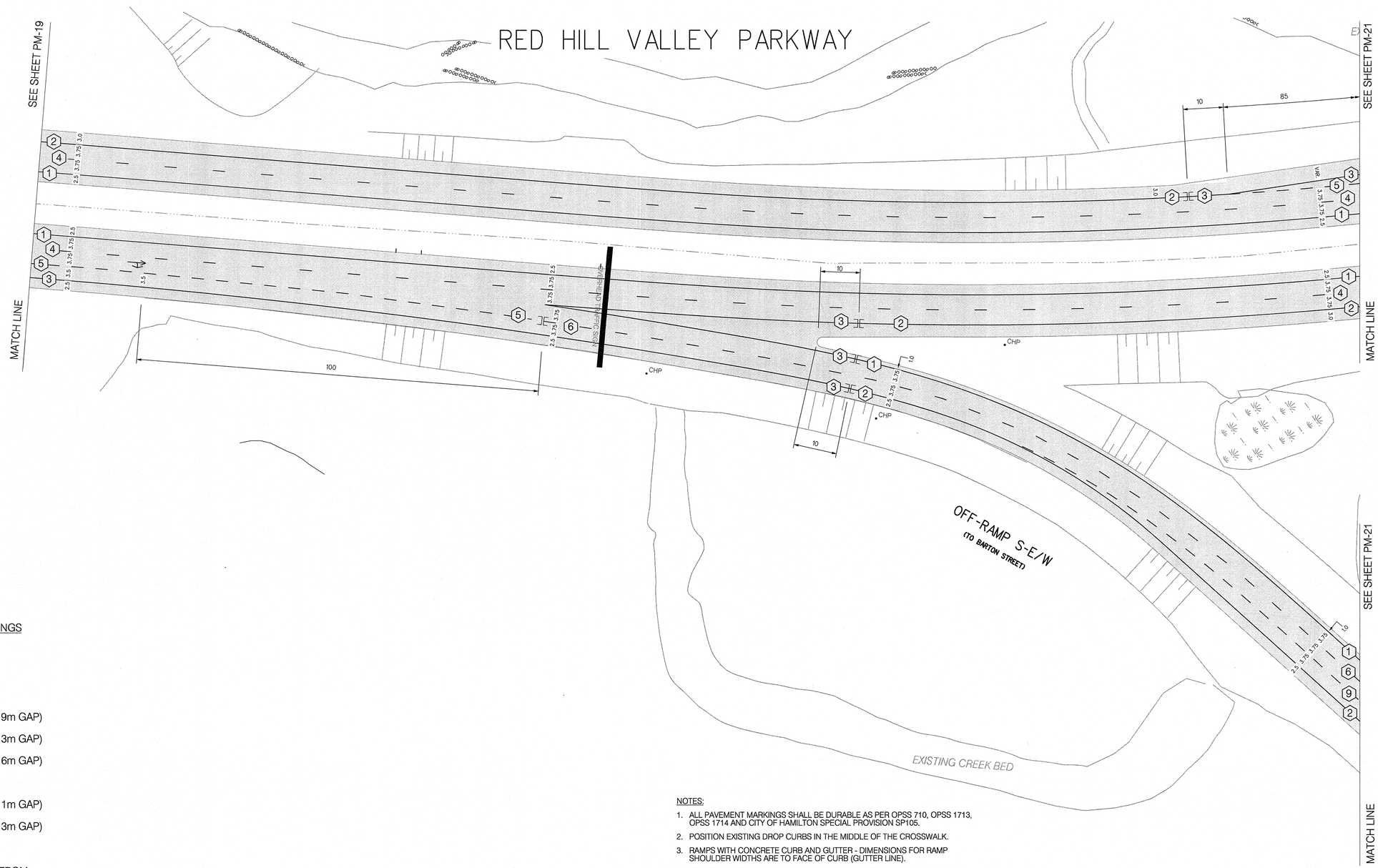
RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DT: XXXXXXX

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX-XXXXXXXX

RED HILL VALLEY PARKWAY



LEGEND - PAVEMENT MARKINGS

1. 10cm SOLID YELLOW
2. 10cm SOLID WHITE
3. 20cm SOLID WHITE
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⌶ LINE TYPE CHANGES

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LEGEND

PROPOSED	EXISTING	
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▪	▪	DISCONNECT BOX, SERVICE ENTRANCE
▪	▪	TRAFFIC JUNCTION BOX
■ TSUP	● TSU	TRAFFIC HANDHOLE
● TSP	● TSP	POLE
⊥	⊥	POST
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
HYD	HYD	PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
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P.P.I.	P.I.	POINT OF INTERSECTION
T.P.	T.P.	TANGENT POINT

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		FACE OF CURB, BACK OF CURB
		FRONT OF GUTTER, FACE OF CURB
		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
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	X	FENCE LINE
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POLE CODES FORMAT: TYPE, LENGTH, OWNER, POLE NO. (MAY BE TRUNCATED)

TYPE:		OWNER:	
CP	CONCRETE	B	BELL TELEPHONE
CP-T	CONCRETE-TEMPORARY	C	CITY, STREET LIGHTING
DP-C	DECORATIVE-CONCRETE	HO	HYDRO ONE
DP-M	DECORATIVE-METAL	HU	HORIZON UTILITES
MP	METAL	MTO	MINISTRY OF TRANSPORTATION
SU	SIGNAL UTILITY	T	CITY, TRAFFIC
WP	WOOD	T-HD	CITY, TRAFFIC, HEAVY DUTY
WP-T	WOOD-TEMPORARY	PVT	PRIVATE

PARKING REGULATIONS

NREGS	NO REGULATIONS	NPLZ	NO PARKING LOADING ZONE
NPA	NO PARKING ANYTIME	CVLZ	COMMERCIAL VEHICLE LOADING ZONE
NSA	NO STOPPING ANYTIME	SBLZ	SCHOOL BUS LOADING ZONE
NSAM	NO STOPPING 7am-9am	WCLZ	WHEELCHAIR LOADING ZONE
NSPM	NO STOPPING 4pm-6pm	ASP	ALTERNATE SIDE PARKING

STANDARD PRACTICES, UNLESS NOTED

- DIMENSIONS ARE METRES UNLESS OTHERWISE NOTED
- SIDEWALKS AND ISLANDS AT ALL PEDESTRIAN CROSSINGS TO HAVE WHEELCHAIR DEPRESSIONS BETWEEN CROSSWALK LINES
- DIRECTIONAL LINES IN PEDESTRIAN CROSSINGS NOT SHOWN
- CROSSING STRIPES FOR LADDER CROSSWALKS TO BE 450mm WIDE WITH 450mm SPACING.
- POINT OF INTERSECTION TO CROSSWALK: 0.6m
- POINT OF INTERSECTION TO TERMINUS OF LONGITUDINAL LINES WHERE NO STOP BAR: 3.0m
- STOP BAR WIDTH: 0.6m AT 1.0m SET-BACK FROM CROSSWALK
- BICYCLE SIGNING AND MARKINGS FROM OTM BOOK 18 AND TAC, BIKEWAY TRAFFIC CONTROL GUIDELINES FOR CANADA, FEB. 2012.
- LANE DIMENSIONS TO ℄ OF MARKINGS, AND EDGE OF ASPHALT

0 10 20 30 40 50 METRES

No.	DATE	DRAWN	REVISION DETAILS
0	2019.02	SP	ISSUED FOR CITY REVIEW- FEBRUARY 2019

CHECKED:

APPROVAL:

MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

MM/DD/YY

PAVEMENT MARKINGS DESIGN

RED HILL VALLEY PARKWAY
FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON | SCALE: 1:500

PRINTED: 3/7/2019 | DESIGN: SR/SP

DRAWING No.: PM-20

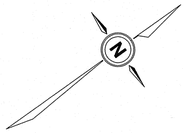
2015-08 BASE

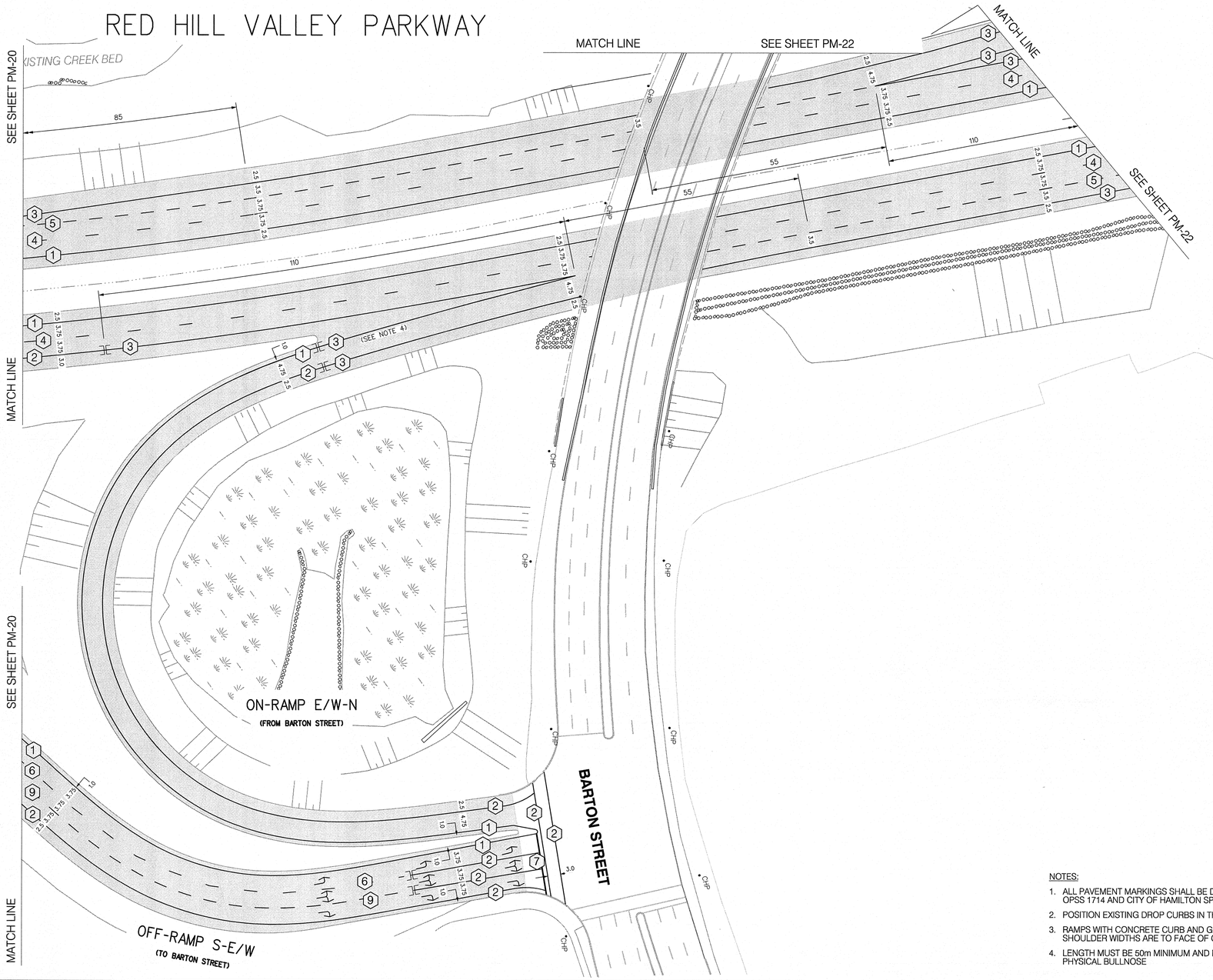
DT: XXXXXXX RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX-XXXXXXXX

RED HILL VALLEY PARKWAY





LEGEND - PAVEMENT MARKINGS

1. 10cm SOLID YELLOW
2. 10cm SOLID WHITE
3. 20cm SOLID WHITE
4. 10cm WHITE (3m LINE - 9m GAP)
5. 20cm WHITE (3m LINE - 3m GAP)
6. 10cm WHITE (3m LINE - 6m GAP)
7. 60cm SOLID WHITE
8. 10cm WHITE (1m LINE - 1m GAP)
9. 10cm WHITE (3m LINE - 3m GAP)

LINE TYPE CHANGES

(*) DISTANCE MEASURED FROM CENTRE OF CONCRETE BARRIER

LEGEND

PROPOSED	EXISTING	
■	■	TRAFFIC SIGNAL CONTROLLER
		DISCONNECT BOX, SERVICE ENTRANCE
■	■	TRAFFIC JUNCTION BOX
■	■	TRAFFIC HANDHOLE
TSUP	TSU	POLE
TSP	TSP	POST
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
HYD	HYD	PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
		FIRE HYDRANT
P.P.I.	P.I.	POINT OF INTERSECTION
T.P.	T.P.	TANGENT POINT

PROPOSED	EXISTING	
		FACE OF CURB, BACK OF CURB
		FRONT OF GUTTER, FACE OF CURB
		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
		UNCURBED EDGE OF PAVEMENT
		CONCRETE
		VEHICLE APPROACH / DRIVEWAY
		BOTTOM OF PEDESTRIAN CURB DEPRESSIONS
	X	FENCE LINE
		ROAD ALLOWANCE / PROPERTY LINE
		LOOP DETECTORS
		PROJECT LIMITS

POLE CODES FORMAT: TYPE, LENGTH, OWNER, POLE NO. (MAY BE TRUNCATED)

TYPE:		OWNER:	
CP	CONCRETE	B	BELL TELEPHONE
CP-T	CONCRETE-TEMPORARY	C	CITY, STREET LIGHTING
DP-C	DECORATIVE-CONCRETE	HO	HYDRO ONE
DP-M	DECORATIVE-METAL	HU	HORIZON UTILITES
MP	METAL	MTO	MINISTRY OF TRANSPORTATION
SU	SIGNAL UTILITY	T	CITY, TRAFFIC
WP	WOOD	T-HD	CITY, TRAFFIC, HEAVY DUTY
WP-T	WOOD-TEMPORARY	PVT	PRIVATE

PARKING REGULATIONS

NREGS	NO REGULATIONS	NPLZ	NO PARKING LOADING ZONE
NPA	NO PARKING ANYTIME	CVLZ	COMMERCIAL VEHICLE LOADING ZONE
NSA	NO STOPPING ANYTIME	SBLZ	SCHOOL BUS LOADING ZONE
NSAM	NO STOPPING 7am-9am	WCLZ	WHEELCHAIR LOADING ZONE
NSPM	NO STOPPING 4pm-6pm	ASP	ALTERNATE SIDE PARKING

STANDARD PRACTICES, UNLESS NOTED

- DIMENSIONS ARE METRES UNLESS OTHERWISE NOTED.
- SIDEWALKS AND ISLANDS AT ALL PEDESTRIAN CROSSINGS TO HAVE WHEELCHAIR DEPRESSIONS BETWEEN CROSSWALK LINES
- DIRECTIONAL LINES IN PEDESTRIAN CROSSINGS NOT SHOWN
- CROSSING STRIPES FOR LADDER CROSSWALKS TO BE 450mm WIDE WITH 450mm SPACING.
- POINT OF INTERSECTION TO CROSSWALK: 0.6m
- POINT OF INTERSECTION TO TERMINUS OF LONGITUDINAL LINES WHERE NO STOP BAR: 3.0m
- STOP BAR WIDTH: 0.6m AT 1.0m SET-BACK FROM CROSSWALK
- BICYCLE SIGNING AND MARKINGS FROM OTM BOOK 18 AND TAC, BIKEWAY TRAFFIC CONTROL GUIDELINES FOR CANADA, FEB. 2012.
- LANE DIMENSIONS TO ℄ OF MARKINGS, AND EDGE OF ASPHALT

0 10 20 30 40 50 METRES

NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE DURABLE AS PER OPSS 710, OPSS 1713, OPSS 1714 AND CITY OF HAMILTON SPECIAL PROVISION SP105.
2. POSITION EXISTING DROP CURBS IN THE MIDDLE OF THE CROSSWALK.
3. RAMPS WITH CONCRETE CURB AND GUTTER - DIMENSIONS FOR RAMP SHOULDER WIDTHS ARE TO FACE OF CURB (GUTTER LINE).
4. LENGTH MUST BE 50m MINIMUM AND MUST EXTEND AS A MINIMUM TO THE PHYSICAL BULLNOSE

No.	DATE	DRAWN	REVISION DETAILS
0	2019.02	SP	ISSUED FOR CITY REVIEW- FEBRUARY 2019

CHECKED:

APPROVAL:

MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

MM/DD/YY

PAVEMENT MARKINGS DESIGN

RED HILL VALLEY PARKWAY
FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON | SCALE: 1:500

PRINTED: 3/7/2019 | DESIGN: SR/SP

DRAWING No.: PM-21

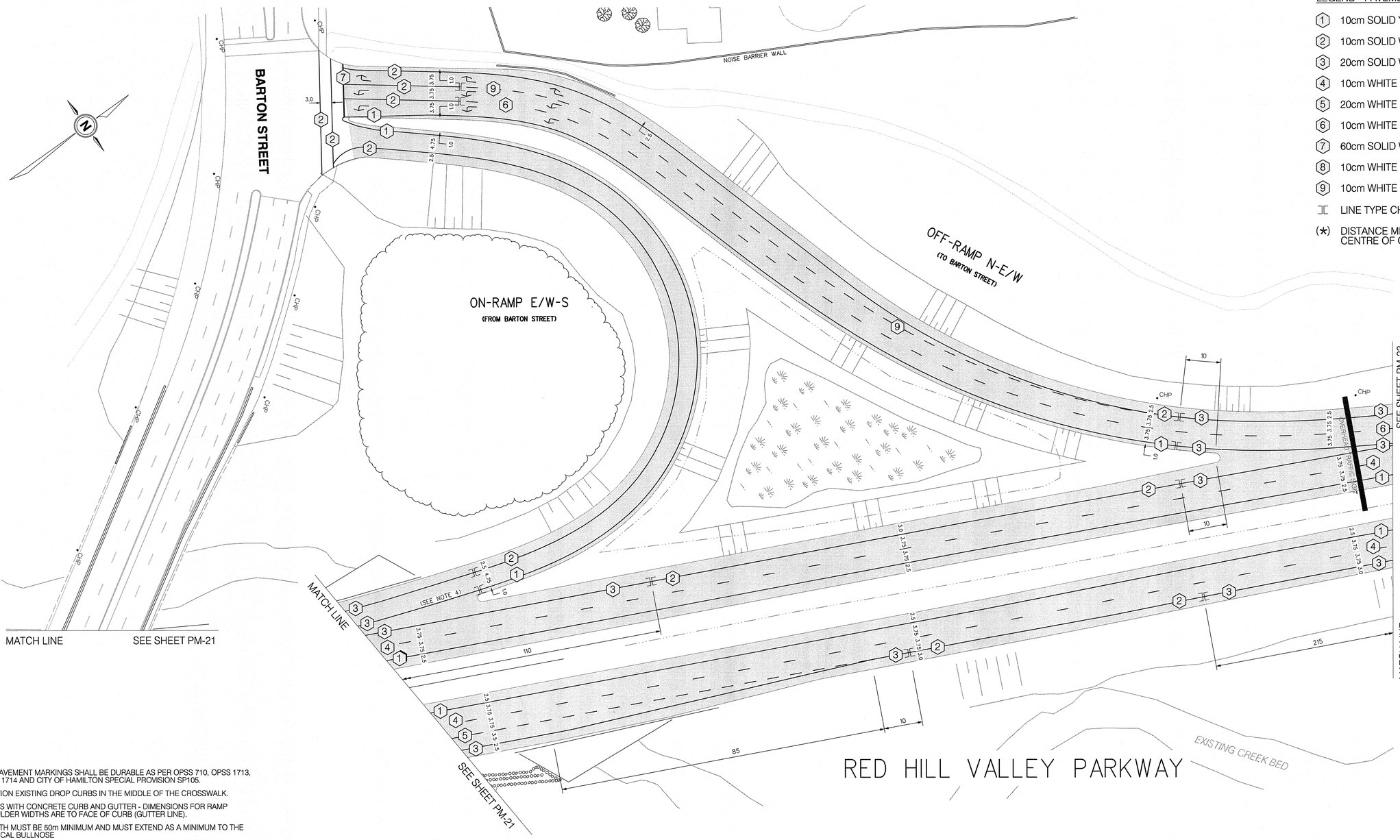
DT: XXXXXXX

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

2015-08 BASE

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX-XXXXXXXX



LEGEND - PAVEMENT MARKINGS

1. 10cm SOLID YELLOW
2. 10cm SOLID WHITE
3. 20cm SOLID WHITE
4. 10cm WHITE (3m LINE - 9m GAP)
5. 20cm WHITE (3m LINE - 3m GAP)
6. 10cm WHITE (3m LINE - 6m GAP)
7. 60cm SOLID WHITE
8. 10cm WHITE (1m LINE - 1m GAP)
9. 10cm WHITE (3m LINE - 3m GAP)

LINE TYPE CHANGES

(*) DISTANCE MEASURED FROM CENTRE OF CONCRETE BARRIER

NOTES:

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LEGEND

PROPOSED	EXISTING	
■	■	TRAFFIC SIGNAL CONTROLLER
⋈	⋈	DISCONNECT BOX, SERVICE ENTRANCE
■	■	TRAFFIC JUNCTION BOX
●	●	TRAFFIC HANDHOLE
TSUP	TSU	POLE
TSP	TSP	POST
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
		PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
HYD	HYD	FIRE HYDRANT
P.P.I.	P.I.	POINT OF INTERSECTION
T.P.	T.P.	TANGENT POINT

PROPOSED	EXISTING	
		FACE OF CURB, BACK OF CURB
		FRONT OF GUTTER, FACE OF CURB
		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
		UNCURBED EDGE OF PAVEMENT
		CONCRETE
		VEHICLE APPROACH / DRIVEWAY
		BOTTOM OF PEDESTRIAN CURB DEPRESSIONS
	X	FENCE LINE
		ROAD ALLOWANCE / PROPERTY LINE
		LOOP DETECTORS
		PROJECT LIMITS

POLE CODES FORMAT: TYPE, LENGTH, OWNER, POLE NO. (MAY BE TRUNCATED)

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CP-T	CONCRETE-TEMPORARY	C	CITY, STREET LIGHTING
DP-C	DECORATIVE-CONCRETE	HO	HYDRO ONE
DP-M	DECORATIVE-METAL	HU	HORIZON UTILITES
MP	METAL	MTO	MINISTRY OF TRANSPORTATION
SU	SIGNAL UTILITY	T	CITY, TRAFFIC
WP	WOOD	T-HD	CITY, TRAFFIC, HEAVY DUTY
WP-T	WOOD-TEMPORARY	PVT	PRIVATE

PARKING REGULATIONS

NREGS	NO REGULATIONS	NPLZ	NO PARKING LOADING ZONE
NPA	NO PARKING ANYTIME	CVLZ	COMMERCIAL VEHICLE LOADING ZONE
NSA	NO STOPPING ANYTIME	SBLZ	SCHOOL BUS LOADING ZONE
NSAM	NO STOPPING 7am-9am	WCLZ	WHEELCHAIR LOADING ZONE
NSPM	NO STOPPING 4pm-6pm	ASP	ALTERNATE SIDE PARKING

STANDARD PRACTICES, UNLESS NOTED

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- BICYCLE SIGNING AND MARKINGS FROM OTM BOOK 18 AND TAC, BIKEWAY TRAFFIC CONTROL GUIDELINES FOR CANADA, FEB. 2012.
- LANE DIMENSIONS TO ℄ OF MARKINGS, AND EDGE OF ASPHALT

0 10 20 30 40 50 METRES

No.	DATE	DRAWN	REVISION DETAILS
0	2019.02	SP	ISSUED FOR CITY REVIEW- FEBRUARY 2019

CHECKED:

APPROVAL:

MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

MM/DD/YY

PAVEMENT MARKINGS DESIGN

RED HILL VALLEY PARKWAY
FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON | SCALE: 1:500

PRINTED: 3/7/2019 | DESIGN: SR/SP

DRAWING No.: PM-22

2015-08 BASE

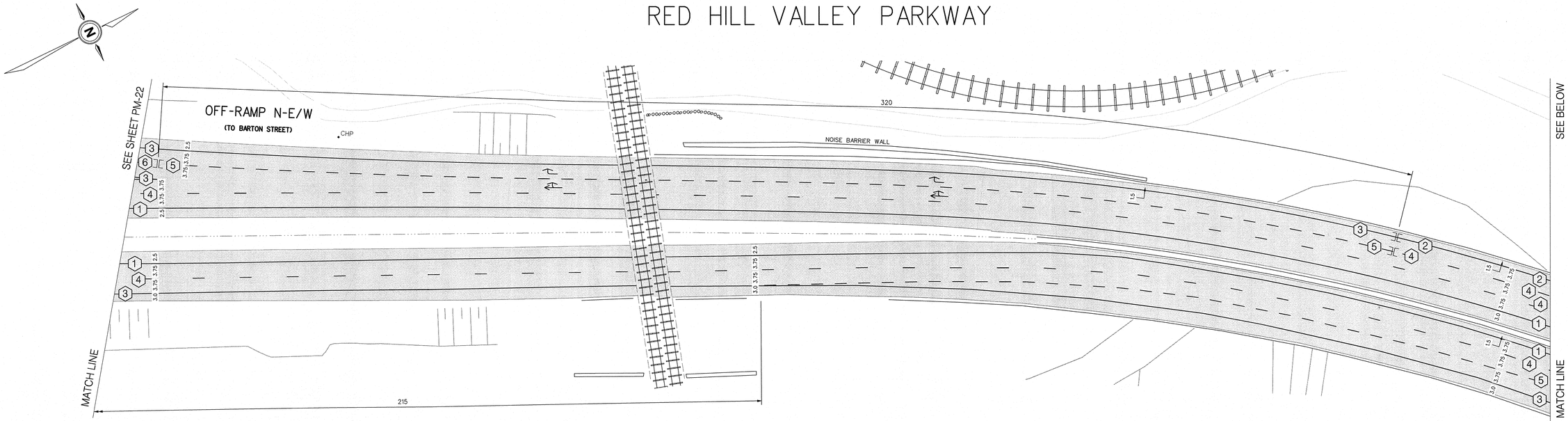
DT: XXXXXXX

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

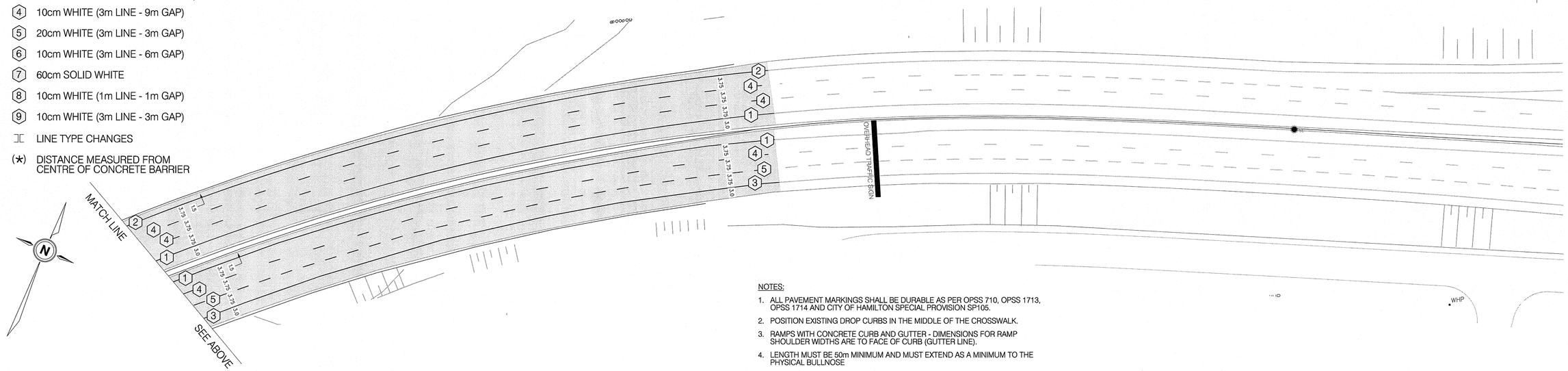
RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

DRAWING No.: XX-XXXXXXXX

RED HILL VALLEY PARKWAY



RED HILL VALLEY PARKWAY



LEGEND - PAVEMENT MARKINGS

1. 10cm SOLID YELLOW
2. 10cm SOLID WHITE
3. 20cm SOLID WHITE
4. 10cm WHITE (3m LINE - 9m GAP)
5. 20cm WHITE (3m LINE - 3m GAP)
6. 10cm WHITE (3m LINE - 6m GAP)
7. 60cm SOLID WHITE
8. 10cm WHITE (1m LINE - 1m GAP)
9. 10cm WHITE (3m LINE - 3m GAP)

LINE TYPE CHANGES

(*) DISTANCE MEASURED FROM CENTRE OF CONCRETE BARRIER

NOTES:

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4. LENGTH MUST BE 50m MINIMUM AND MUST EXTEND AS A MINIMUM TO THE PHYSICAL BULLNOSE

LEGEND

PROPOSED	EXISTING	
■	■	TRAFFIC SIGNAL CONTROLLER
▪	▪	DISCONNECT BOX, SERVICE ENTRANCE
▪	▪	TRAFFIC JUNCTION BOX
● TSUP ● TSP	● TSU ● TSP	TRAFFIC HANDHOLE
		POLE
		POST
		OVERHEAD LANE CONTROL ARM AND SIGNS
		PAVEMENT MARKING LINES
		PAVEMENT MARKING STENCILS
HYD	HYD	PARKING METERS: DOUBLE-HEAD, SINGLE-HEAD
		FIRE HYDRANT
P.P.I.	P.I.	POINT OF INTERSECTION
T.P.	T.P.	TANGENT POINT

PROPOSED	EXISTING	
		FACE OF CURB, BACK OF CURB
		FRONT OF GUTTER, FACE OF CURB
		FRONT OF GUTTER, FACE OF CURB, BACK OF CURB
		UNCURBED EDGE OF PAVEMENT
		CONCRETE
		VEHICLE APPROACH / DRIVEWAY
		BOTTOM OF PEDESTRIAN CURB DEPRESSIONS
	X	FENCE LINE
		ROAD ALLOWANCE / PROPERTY LINE
		LOOP DETECTORS
		PROJECT LIMITS

POLE CODES FORMAT: TYPE, LENGTH, OWNER, POLE NO. (MAY BE TRUNCATED)

TYPE:		OWNER:	
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SU	SIGNAL UTILITY	T	CITY, TRAFFIC
WP	WOOD	T-HD	CITY, TRAFFIC, HEAVY DUTY
WP-T	WOOD-TEMPORARY	PVT	PRIVATE

PARKING REGULATIONS

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NPA	NO PARKING ANYTIME	CVLZ	COMMERCIAL VEHICLE LOADING ZONE
NSA	NO STOPPING ANYTIME	SBLZ	SCHOOL BUS LOADING ZONE
NSAM	NO STOPPING 7am-9am	WCLZ	WHEELCHAIR LOADING ZONE
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STANDARD PRACTICES, UNLESS NOTED

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- LANE DIMENSIONS TO ℄ OF MARKINGS, AND EDGE OF ASPHALT

0 10 20 30 40 50 METRES

No.	DATE	DRAWN	REVISION DETAILS
0	2019.02	SP	ISSUED FOR CITY REVIEW- FEBRUARY 2019

CHECKED:

APPROVAL:

MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

MM/DD/YY

PAVEMENT MARKINGS DESIGN

RED HILL VALLEY PARKWAY
FROM: MUD STREET INTERCHANGE
TO: MTO QEW LIMITS

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON	SCALE: 1:500	DRAWING No.:
PRINTED: 3/7/2019	DESIGN: SR/SP	PM-23

2015-08 BASE

DT: XXXXXXX

RED HILL VALLEY PARKWAY, PRITCHARD RD TO QEW

NIKOLA TESLA BOULEVARD FROM 170m EAST OF STRATHEARNE AVE. TO 250m EAST OF PARKDALE AVE. N.

DRAWING No.: DT: TM-1





PAVEMENT MARKINGS

1	SOLID YELLOW, 10cm	14	SOLID WHITE, 45cm
2	SOLID DOUBLE YELLOW, 10cm	15	SOLID WHITE, 60cm
3	3m BROKEN YELLOW, 10cm	16	SOLID YELLOW, 30cm
4	SOLID YELLOW, 20cm	20	SYMBOLS
5	SOLID WHITE, 10cm	x	LIMITS OF MARKINGS
6	3m BROKEN WHITE, 10cm		
7	3m BROKEN WHITE, 10cm		
8	9m BROKEN WHITE, 10cm		
9	SOLID WHITE, 20cm		
10	11m BROKEN WHITE, 10cm		
11	3m BROKEN WHITE, 20cm		
12	3m BROKEN WHITE, 30cm		
13	SOLID WHITE, 30cm		

NOTES:
1. 3m, 3m, 9m, DENOTES PAVEMENT MARKING SPACING (IE., 3m LINE, 3m GAP, 3m LINE)
2. USE (1) TO DENOTE PAVEMENT MARKING
3. USE [1] TO DENOTE PAVEMENT MARKING, TEMPORARY
4. USE ⚠1 TO DENOTE PAVEMENT MARKING, TEMPORARY-REMOVABLE
5. USE (1) TO DENOTE PAVEMENT MARKING, DURABLE

LEGEND

- TC-54
- TC-1
- TC-1A
- TC-2B
- TC-3L
- TC-4R
- TC-12R
- TC-35
- Rb-92

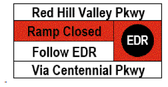
CUSTOMED SIGNS



EDR-T



EDR-R



TC-64

0 5 10 15 20 25 METRES

No.	DATE	DRAWN	REVISION DETAILS
0	2019.02	SX	ISSUED FOR CITY REVIEW- FEBRUARY XX, 2019

CHECKED:

APPROVAL:

MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

MM/DD/YY

TRAFFIC MANAGEMENT CONTROL PLAN

NIKOLA TESLA BOULEVARD FROM 170m EAST OF STRATHEARNE AVE. TO 250m EAST OF PARKDALE AVE. N.

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

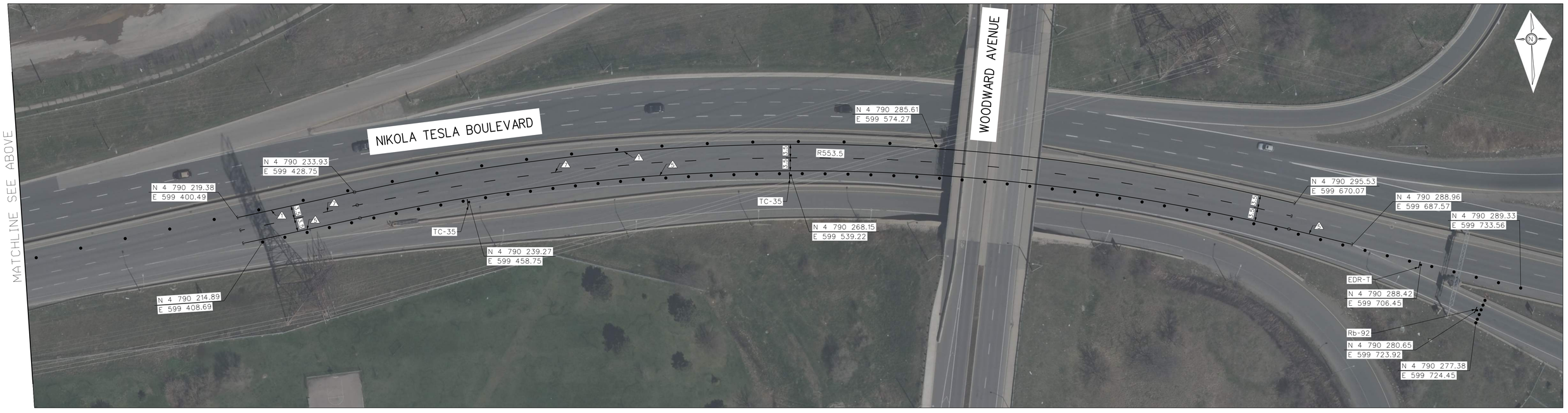
SURVEY DATE: CITY OF HAMILTON	SCALE: 1:500	DRAWING No.:
PRINTED: February 20, 2019	DESIGN: SS	TM-1

2019-02

DT: TM-1

NIKOLA TESLA BOULEVARD FROM 170m EAST OF STRATHEARNE AVE. TO 250m EAST OF PARKDALE AVE. N.





PAVEMENT MARKINGS

1 SOLID YELLOW, 10cm
2 SOLID DOUBLE YELLOW, 10cm
3 363 BROKEN YELLOW, 10cm
4 SOLID YELLOW, 20cm
5 SOLID WHITE, 10cm
6 333 BROKEN WHITE, 10cm
7 363 BROKEN WHITE, 10cm
8 393 BROKEN WHITE, 10cm
9 SOLID WHITE, 20cm
10 111 BROKEN WHITE, 10cm
11 333 BROKEN WHITE, 20cm
12 333 BROKEN WHITE, 30cm
13 SOLID WHITE, 30cm
14 SOLID WHITE, 45cm
15 SOLID WHITE, 60cm
16 SOLID YELLOW, 30cm
20 SYMBOLS
I LIMITS OF MARKINGS

NOTES:
1. 333, 363, 393, DENOTES PAVEMENT MARKING SPACING (IE., 3m LINE, 3m GAP, 3m LINE)
2. USE (1) TO DENOTE PAVEMENT MARKING
3. USE [1] TO DENOTE PAVEMENT MARKING, TEMPORARY
4. USE ⚠ TO DENOTE PAVEMENT MARKING, TEMPORARY-REMOVABLE
5. USE (1) TO DENOTE PAVEMENT MARKING, DURABLE

LEGEND

TC-54
TC-1
TC-1A
TC-2B
TC-3L
TC-4R
TC-12R
TC-35
Rb-92

CUSTOMED SIGNS

EDR-T
EDR-R
TC-64 (Red Hill Valley Pkwy / Ramp Closed / Follow EDR / Via Centennial Pkwy)

0 5 10 15 20 25 METRES

No.	DATE	DRAWN	REVISION DETAILS
0	2019.02	SX	ISSUED FOR CITY REVIEW- FEBRUARY XX, 2019

CHECKED:

APPROVAL:

MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

MM/DD/YY

TRAFFIC MANAGEMENT CONTROL PLAN

NIKOLA TESLA BOULEVARD FROM 250m EAST OF PARKDALE AVE. N. TO 145m EAST OF WOODWARD AVE.

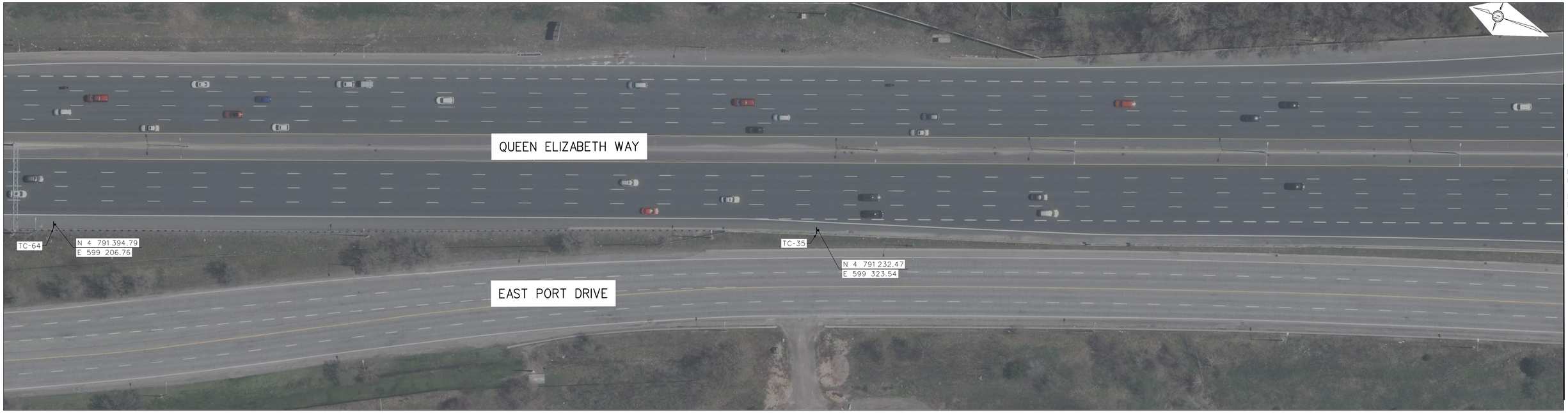
IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON | SCALE: 1:500
PRINTED: February 20, 2019 | DESIGN: SS
DRAWING No.: TM-2

QUEEN ELIZABETH WAY FROM 170m SOUTH OF PIER 25 GATEWAY S. TO 50m SOUTH OF BEACH BLVD

DRAWING No.: DT: TM-3



MATCHLINE SEE BELOW

MATCHLINE SEE ABOVE



MATCHLINE - DT: TM-4

PAVEMENT MARKINGS

1. SOLID YELLOW, 10cm
2. SOLID DOUBLE YELLOW, 10cm
3. 363 BROKEN YELLOW, 10cm
4. SOLID YELLOW, 20cm
5. SOLID WHITE, 10cm
6. 333 BROKEN WHITE, 10cm
7. 363 BROKEN WHITE, 10cm
8. 393 BROKEN WHITE, 10cm
9. SOLID WHITE, 20cm
10. 111 BROKEN WHITE, 10cm
11. 333 BROKEN WHITE, 20cm
12. 333 BROKEN WHITE, 30cm
13. SOLID WHITE, 30cm
14. SOLID WHITE, 45cm
15. SOLID WHITE, 60cm
16. SOLID YELLOW, 30cm
20. SYMBOLS
- LIMITS OF MARKINGS

NOTES:

1. 333, 363, 393, DENOTES PAVEMENT MARKING SPACING (IE., 3m LINE, 3m GAP, 3m LINE)
2. USE (1) TO DENOTE PAVEMENT MARKING
3. USE [1] TO DENOTE PAVEMENT MARKING, TEMPORARY
4. USE ⚠1 TO DENOTE PAVEMENT MARKING, TEMPORARY-REMOVABLE
5. USE (1) TO DENOTE PAVEMENT MARKING, DURABLE

LEGEND

- TC-54
- TC-1
- TC-1A
- TC-2B
- TC-3L
- TC-4R
- TC-12R
- TC-35
- Rb-92

CUSTOMED SIGNS

EDR-T

EDR-R

TC-64

Red Hill Valley Pkwy
Ramp Closed EDR
Follow EDR
Via Centennial Pkwy

0 2 5 10 15 20 25 METRES

No.	DATE	DRAWN	REVISION DETAILS
0	2019.02	SX	ISSUED FOR CITY REVIEW- FEBRUARY XX, 2019

CHECKED:

APPROVAL:

MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

MM/DD/YY

TRAFFIC MANAGEMENT CONTROL PLAN

QUEEN ELIZABETH WAY FROM 170m SOUTH OF PIER 25 GATEWAY S. TO 50m SOUTH OF BEACH BLVD.

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON | SCALE: 1:500

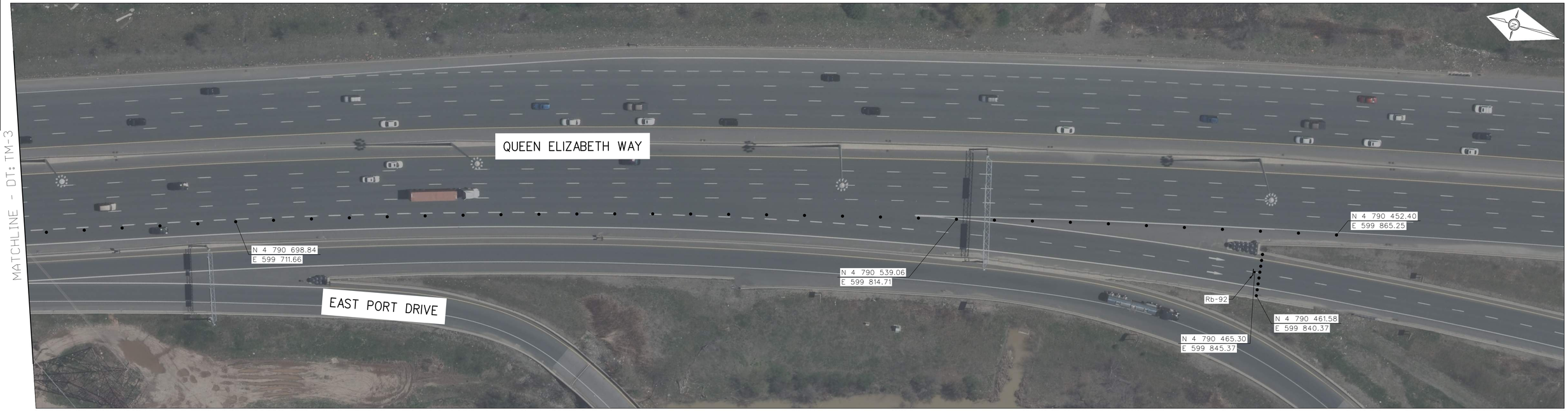
PRINTED: February 20, 2019 | DESIGN: SS

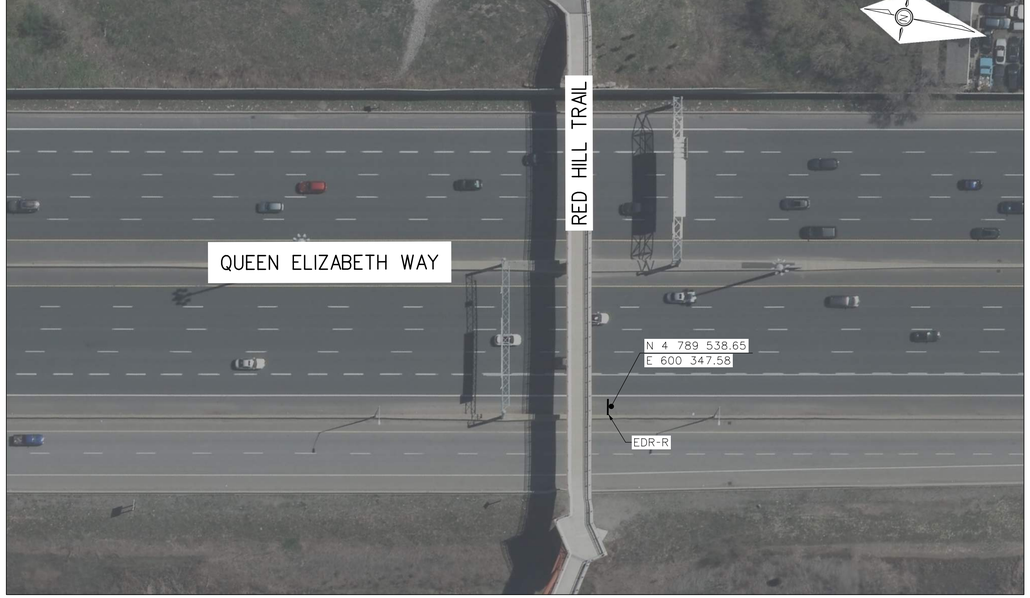
DRAWING No.: TM-3

2019-02

DT: TM-3

QUEEN ELIZABETH WAY FROM 170m SOUTH OF PIER 25 GATEWAY S. TO 50m SOUTH OF BEACH BLVD.





PAVEMENT MARKINGS

1 SOLID YELLOW, 10cm
2 SOLID DOUBLE YELLOW, 10cm
3 363 BROKEN YELLOW, 10cm
4 SOLID YELLOW, 20cm
5 SOLID WHITE, 10cm
6 333 BROKEN WHITE, 10cm
7 363 BROKEN WHITE, 10cm
8 393 BROKEN WHITE, 10cm
9 SOLID WHITE, 20cm
10 111 BROKEN WHITE, 10cm
11 333 BROKEN WHITE, 20cm
12 333 BROKEN WHITE, 30cm
13 SOLID WHITE, 30cm
14 SOLID WHITE, 45cm
15 SOLID WHITE, 60cm
16 SOLID YELLOW, 30cm
20 SYMBOLS
LIMITS OF MARKINGS

NOTES:
1. 333, 363, 393, DENOTES PAVEMENT MARKING SPACING (IE., 3m LINE, 3m GAP, 3m LINE)
2. USE (1) TO DENOTE PAVEMENT MARKING
3. USE [1] TO DENOTE PAVEMENT MARKING, TEMPORARY
4. USE ⚠ TO DENOTE PAVEMENT MARKING, TEMPORARY-REMOVABLE
5. USE (1) TO DENOTE PAVEMENT MARKING, DURABLE

LEGEND

TC-54
TC-1
TC-1A
TC-2B
TC-3L
TC-4R
TC-12R
TC-35
Rb-92

CUSTOMED SIGNS

EDR-T
EDR-R
TC-64

Red Hill Valley Pkwy
Ramp Closed EDR
Follow EDR
Via Centennial Pkwy

0 5 10 15 20 25 METRES

No.	DATE	DRAWN	REVISION DETAILS
0	2019.02	SX	ISSUED FOR CITY REVIEW- FEBRUARY XX, 2019

CHECKED:

APPROVAL:

MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

MM/DD/YY

TRAFFIC CONTROL MANAGEMENT PLAN

QUEEN ELIZABETH WAY FROM 50m SOUTH OF BEACH BLVD. TO 5m SOUTH RED HILL TRAIL

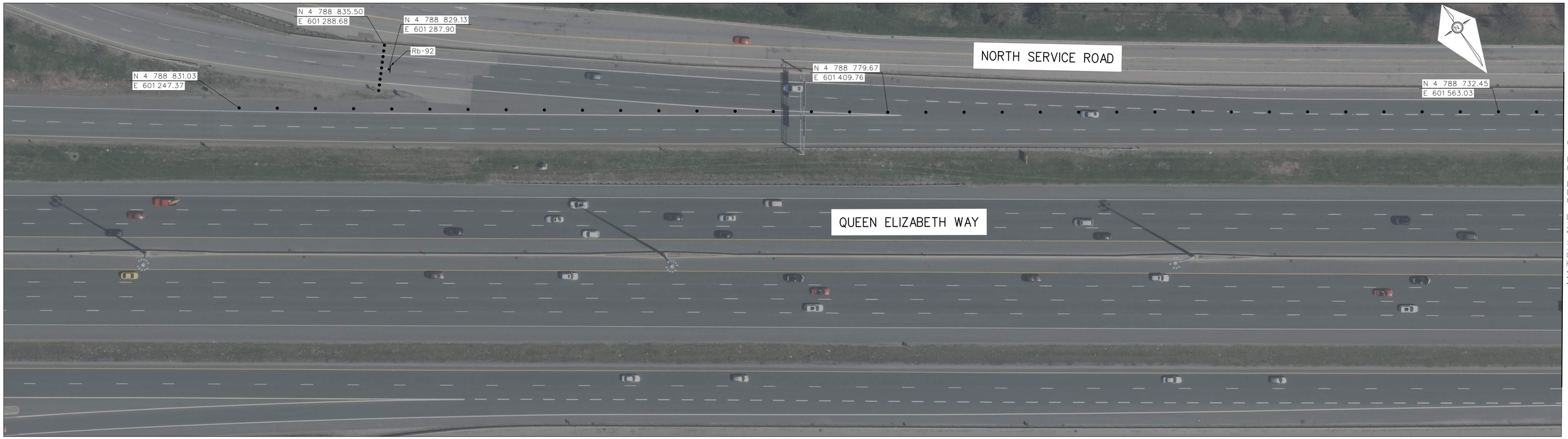
IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON | SCALE: 1:500 | DRAWING No.: TM-4
PRINTED: February 20, 2019 | DESIGN: SS

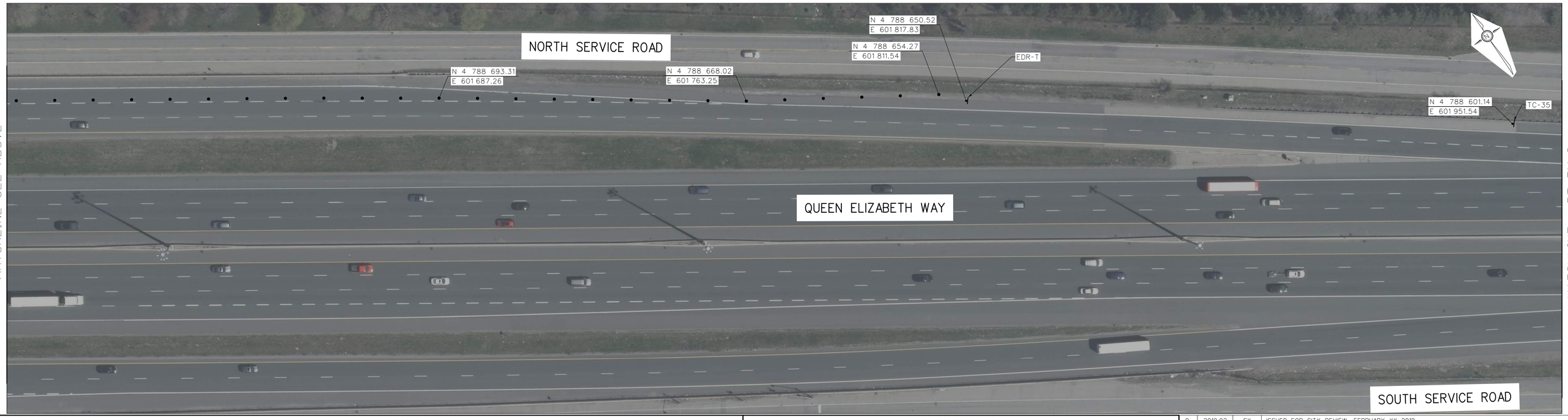
QUEEN ELIZABETH WAY FROM 335m EAST OF CENTENNIAL PKW. N. TO EAST 210m LAKE AVE. N.

DRAWING No.: DT: TM-5



MATCHLINE SEE BELOW

MATCHLINE SEE ABOVE



MATCHLINE - DT: TM-6

PAVEMENT MARKINGS

1	SOLID YELLOW, 10cm	14	SOLID WHITE, 45cm
2	SOLID DOUBLE YELLOW, 10cm	15	SOLID WHITE, 60cm
3	363 BROKEN YELLOW, 10cm	16	SOLID YELLOW, 30cm
4	SOLID YELLOW, 20cm	20	SYMBOLS
5	SOLID WHITE, 10cm	⧗	LIMITS OF MARKINGS
6	333 BROKEN WHITE, 10cm		
7	363 BROKEN WHITE, 10cm		
8	393 BROKEN WHITE, 10cm		
9	SOLID WHITE, 20cm		
10	111 BROKEN WHITE, 10cm		
11	333 BROKEN WHITE, 20cm		
12	333 BROKEN WHITE, 30cm		
13	SOLID WHITE, 30cm		

NOTES:

1. 333, 363, 393, DENOTES PAVEMENT MARKING SPACING (IE., 3m LINE, 3m GAP, 3m LINE)
2. USE (1) TO DENOTE PAVEMENT MARKING
3. USE [1] TO DENOTE PAVEMENT MARKING, TEMPORARY
4. USE △ TO DENOTE PAVEMENT MARKING, TEMPORARY-REMOVABLE
5. USE (1) TO DENOTE PAVEMENT MARKING, DURABLE

LEGEND

TC-54 · TC-3L · Rb-92 (ROAD CLOSED)

TC-1 (CONSTRUCTION) · TC-4R

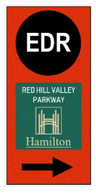
TC-1A (CONSTRUCTION 1 KM) · TC-12R

TC-2B · TC-35 (RAMP CLOSED)

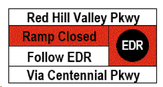
CUSTOMED SIGNS



EDR-T



EDR-R



TC-64

0 5 10 15 20 25 METRES

No.	DATE	DRAWN	REVISION DETAILS
0	2019.02	SX	ISSUED FOR CITY REVIEW- FEBRUARY XX, 2019

CHECKED:

APPROVAL:

MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

MM/DD/YY

TRAFFIC CONTROL MANAGEMENT PLAN

QUEEN ELIZABETH WAY FROM 335m EAST OF CENTENNIAL PKW. N. TO EAST 210m LAKE AVE. N.

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON	SCALE: 1:500	DRAWING No.: TM-5
PRINTED: February 20, 2019	DESIGN: SS	

2019-02

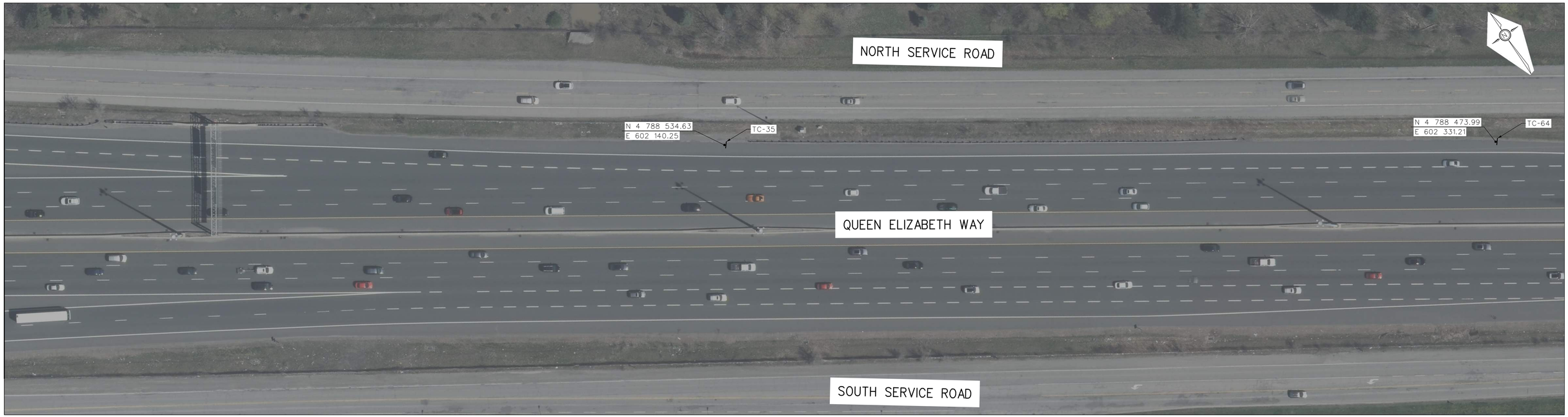
QUEEN ELIZABETH WAY FROM 335m EAST OF CENTENNIAL PKW. N. TO EAST 210m LAKE AVE. N.

DT: TM-5

QUEEN ELIZABETH WAY FROM EAST 210m LAKE AVE. N. TO 270m WEST OF GRAYS RD

DRAWING No.: DT: TM-6

MATCHLINE - DT: TM-5



PAVEMENT MARKINGS

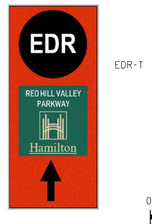
1 SOLID YELLOW, 10cm
2 SOLID DOUBLE YELLOW, 10cm
3 363 BROKEN YELLOW, 10cm
4 SOLID YELLOW, 20cm
5 SOLID WHITE, 10cm
6 333 BROKEN WHITE, 10cm
7 363 BROKEN WHITE, 10cm
8 393 BROKEN WHITE, 10cm
9 SOLID WHITE, 20cm
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11 333 BROKEN WHITE, 20cm
12 333 BROKEN WHITE, 30cm
13 SOLID WHITE, 30cm
14 SOLID WHITE, 45cm
15 SOLID WHITE, 60cm
16 SOLID YELLOW, 30cm
20 SYMBOLS
LIMITS OF MARKINGS

NOTES:
1. 333, 363, 393, DENOTES PAVEMENT MARKING SPACING (IE., 3m LINE, 3m GAP, 3m LINE)
2. USE (1) TO DENOTE PAVEMENT MARKING
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4. USE △ TO DENOTE PAVEMENT MARKING, TEMPORARY-REMOVABLE
5. USE (1) TO DENOTE PAVEMENT MARKING, DURABLE

LEGEND

TC-54
TC-1
TC-1A
TC-2B
TC-3L
TC-4R
TC-12R
TC-35
Rb-92

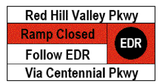
CUSTOMED SIGNS



EDR-T



EDR-R



TC-64

0 5 10 15 20 25 METRES

No.	DATE	DRAWN	REVISION DETAILS
0	2019.02	SX	ISSUED FOR CITY REVIEW- FEBRUARY XX, 2019

CHECKED:

APPROVAL:

MANAGER OF TRAFFIC OPERATIONS AND ENGINEERING

MM/DD/YY

TRAFFIC CONTROL MANAGEMENT PLAN

QUEEN ELIZABETH WAY FROM EAST 210m LAKE AVE. N. TO 270m WEST OF GRAYS RD

IN THE CITY OF HAMILTON

PREPARED BY CIMA FOR THE CITY OF HAMILTON, TRAFFIC OPERATIONS AND ENGINEERING, ROADS AND TRAFFIC, PUBLIC WORKS DEPARTMENT

SURVEY DATE: CITY OF HAMILTON | SCALE: 1:500 | DRAWING No.: TM-6

PRINTED: February 20, 2019 | DESIGN: SS

QUEEN ELIZABETH WAY FROM EAST 210m LAKE AVE. N. TO 270m WEST OF GRAYS RD

DT: TM-6

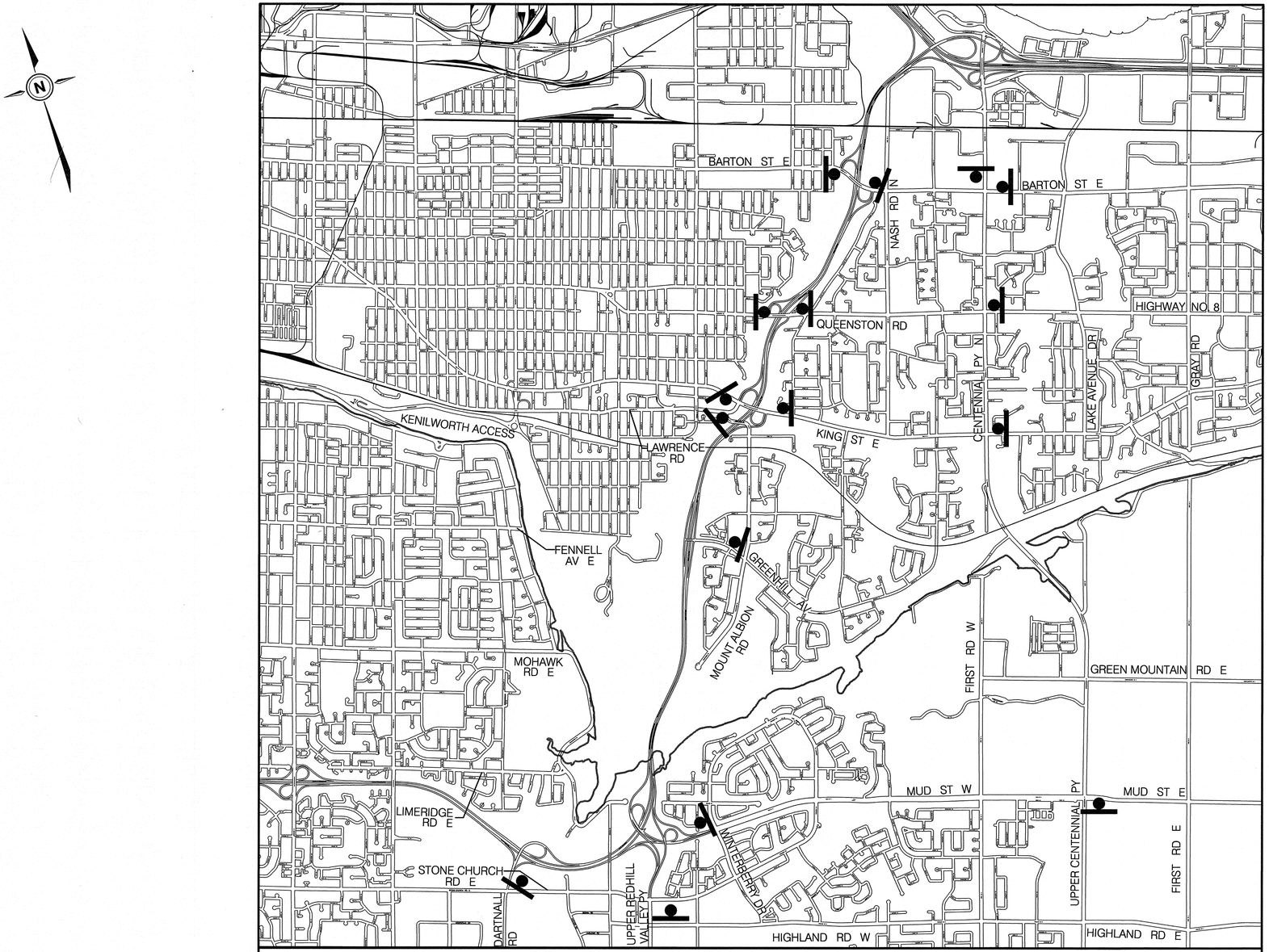
2019-02

RED HILL VALLEY PARKWAY

RED HILL VALLEY PARKWAY

CONTRACT No. C15-20-19 (H)
DRAWING No. 17-H-16 (PVMS)

SHEET No.
PVMS



PORTABLE VARIABLE MESSAGE SIGNS (PVMS) TRAILERS ON ARTERIAL ROADS

No.	REVISIONS	INITIAL	DATE

Dimensions shown on this plan are in millimetres unless otherwise noted

REFERENCE MATERIAL

Data displayed on this plan is compiled from digital mapping, aerial photography (2015), Teranet parcil plans and digitized terrain models.
Field survey work has not been completed at this time.

ACTIVITIES	
Drawn By:	O.S.
Drawn Date:	01-05-17
Design By:	T.B
Design Date:	07-03-19

Q/C IN ACCORDANCE WITH ASCE STANDARD 38-02
All Utilities depicted are at (D) unless otherwise noted.
(D) information derived from existing records
(C) information obtained from field survey combined with (D) information
(B) information obtained in field and indicates horizontal position of subsurface utility
(A) precise horizontal and vertical location of utility obtained by exposure and measurement

Project Manager (Design)
Sarath Vala, P.Eng.

Manager of Design
Susan Jacob, P. Eng.

Hamilton
Public Works Department

RED HILL VALLEY PARKWAY

PVMS Trailer Locations

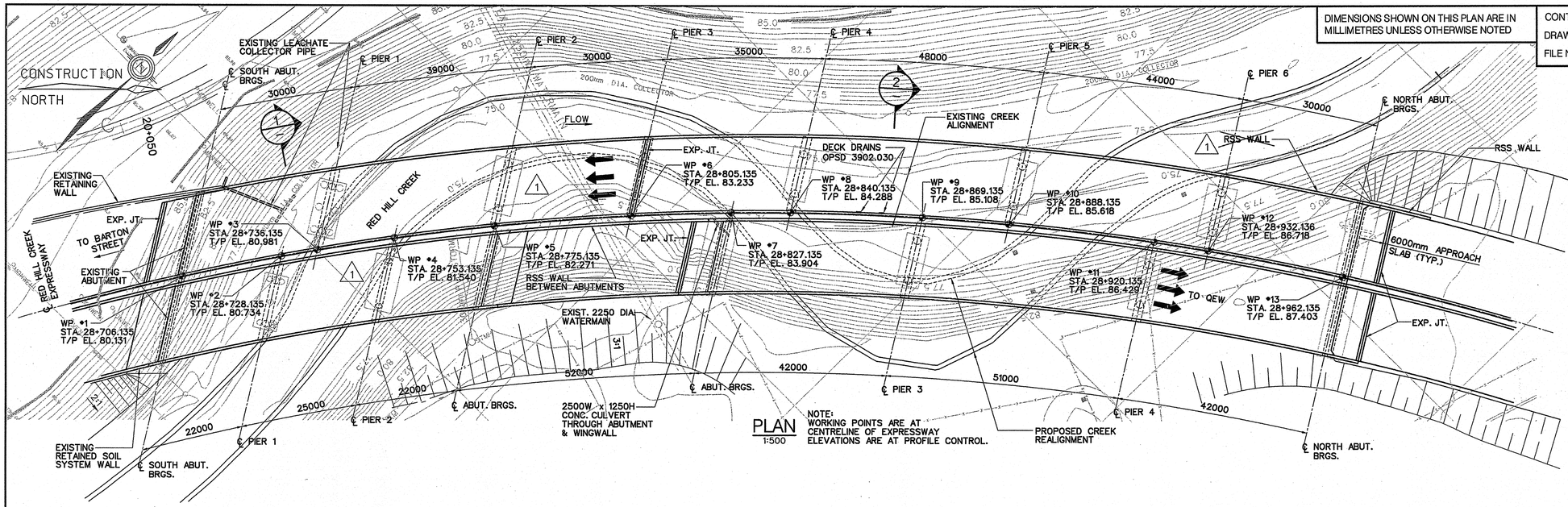
From : Mud Street Interchange
To : Queen Elizabeth Way

17-H-16 (PVMS)

DIMENSIONS SHOWN ON THIS PLAN ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

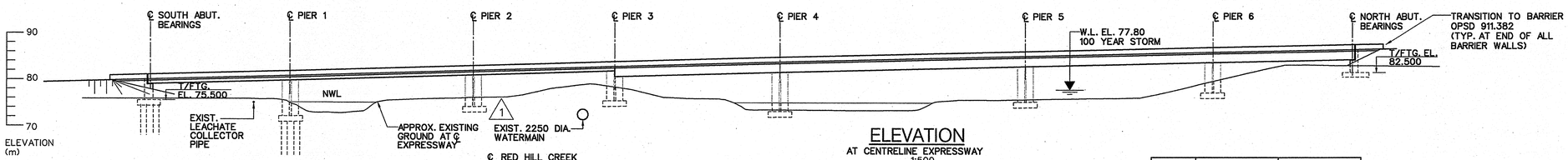
CONTRACT No. PW-05-242 (RHV)
DRAWING No. 05-H-52
FILE No.

SHEET No. S1 OF S67

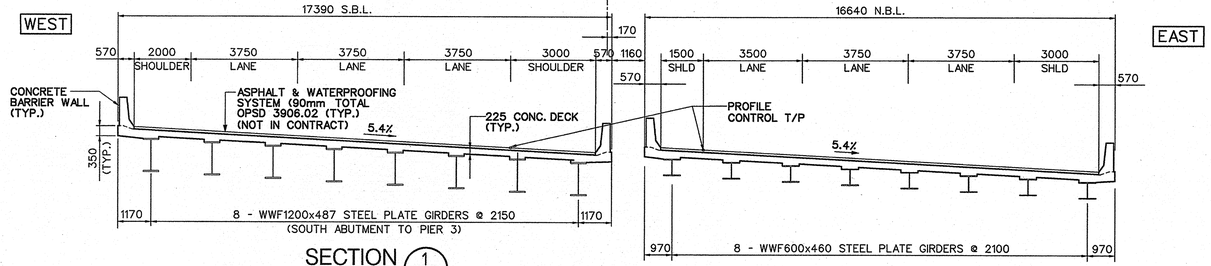


PLAN
1:500

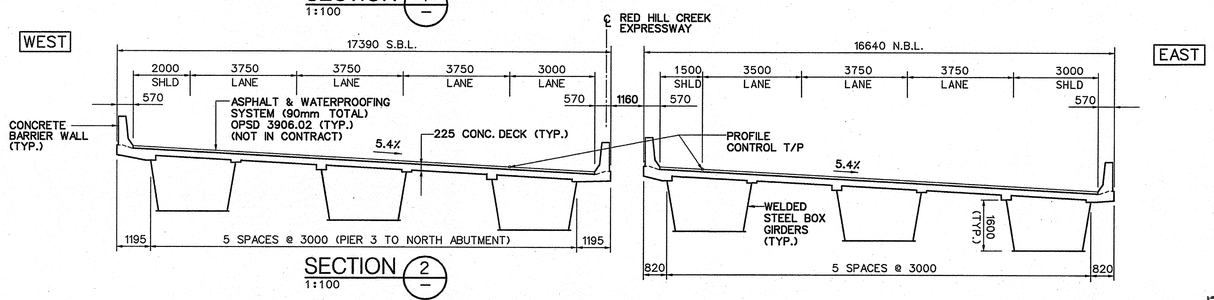
NOTE:
WORKING POINTS ARE AT CENTRELINE OF EXPRESSWAY
ELEVATIONS ARE AT PROFILE CONTROL.



ELEVATION
AT CENTRELINE EXPRESSWAY
1:500

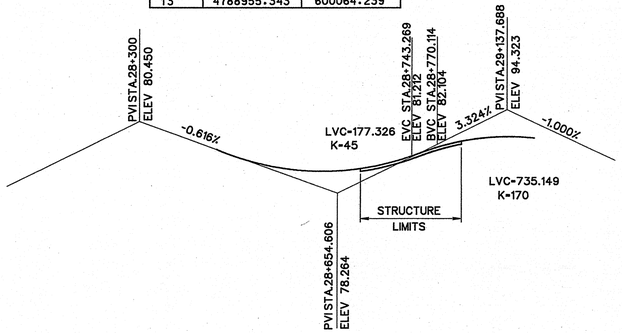


SECTION 1
1:100



SECTION 2
1:100

W.P.	NORTHING	EASTING
S.C.	4788753.529	599872.476
1	4788775.164	599885.364
2	4788793.585	599897.389
3	4788800.169	599901.934
4	4788813.944	599911.896
5	4788831.322	599925.384
6	4788854.163	599944.829
7	4788870.252	599959.831
8	4788879.486	599968.983
9	4788899.323	599990.132
10	4788911.732	600004.522
11	4788931.531	600029.653
12	4788938.592	600039.356
13	4788955.343	600064.239



PROFILE EXPRESSWAY
N.T.S.

NOTES :

1. CLASS OF CONCRETE

DECK & JOINT DAMS	50 MPa (HPC)
BARRIER	30 MPa CALTITE CONC.
REMAINDER	30 MPa

2. CLEAR COVER TO REINFORCING STEEL

FOOTINGS	100 ± 25mm
ABUTMENTS AND WINGWALLS	
FRONT FACE	80 ± 20mm
BACK FACE	70 ± 20mm
PIERS	60 ± 20mm
DECK	
TOP	70 ± 20mm
BOTTOM	40 ± 20mm
REMAINDER	70 ± 20mm

UNLESS OTHERWISE SPECIFIED

3. REINFORCING STEEL

REINFORCING STEEL SHALL BE GRADE 400 UNLESS OTHERWISE SPECIFIED. STAINLESS STEEL REINFORCING STEEL, TYPE 316 LN OR DUPLEX 2205 (YIELD 420 MPa).

BAR MARKS WITH PREFIX 'S' DENOTE STAINLESS STEEL BARS.

BAR MARKS WITH PREFIX 'C' DENOTE EPOXY COATED BARS.

TENSION LAP LENGTHS NOT INDICATED ON CONTRACT DWGS. SHALL BE CLASS B.

BAR HOOKS SHALL HAVE STANDARD HOOK DIMENSIONS USING MINIMUM BEND DIAMETERS, WHILE STIRRUPS AND TIES SHALL HAVE MINIMUM HOOK DIMENSIONS. ALL HOOKS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL STANDARD DRAWINGS SS12-1 AND SS12-2, UNLESS INDICATED OTHERWISE.

4. CONSTRUCTION NOTES

THE CONTRACTOR SHALL ESTABLISH THE BEARING SEAT ELEVATIONS BY DEDUCTING THE ACTUAL BEARING THICKNESSES FROM THE TOP OF BEARING ELEVATIONS. IF THE ACTUAL BEARING THICKNESSES ARE DIFFERENT FROM THOSE GIVEN WITH THE BEARING DATA, THE CONTRACTOR SHALL ADJUST THE

REINFORCING STEEL TO SUIT FOR TEMPORARY COFFERDAMS AND STAGING SEE GRADING DWGS.

5. DESIGN CODE AND LOADING

DESIGN CODE AND LOADING CHBDC CAN/CSA S6-00

6. LEGEND

T/P	-	TOP OF PAVEMENT
NWL	-	NORMAL WATER LEVEL
WL	-	WATER LEVEL
RSS	-	RETAINING SOIL SYSTEM
WP	-	WORKING POINT

AS-BUILT DRAWING

CONTRACTOR: Duffern Construction Co.
WORK COMMENCED: OCTOBER 2004
WORK COMPLETED: NOVEMBER 2007

These As-Built Drawings have been prepared based on inspections and observations undertaken by MRC staff during key stages of construction and on information submitted, in part, by others. While this information is believed to be reliable, MRC is not responsible for its accuracy, or for errors or omissions that may have been incorporated into this drawing as a result.

FOR INFORMATION ONLY

CAD Drawing: s:\5862\600\4h\s3552-h4-51.dgn
Plot Date: 14/12/2006
Plot Time: 3:43:24 PM
CAD Operator: Barbara Tulecka

No.	REVISIONS	INITIAL	DATE
1	NOTE REMOVED, CAISSONS REMOVED	R.S.S.	22/07/05

DRAWN BY: B. TULECKA DATE: JUNE, 2005
REFERENCE MATERIAL:
Road Plans :
Sewer Plans :
Water Plans :
Regional Surveyor:
Geodetic Bench Mark Index No.
Elevation=

SCALES
AS NOTED

LICENSED PROFESSIONAL ENGINEER T.A. RADULESCU PROVINCE OF ONTARIO

LICENSED PROFESSIONAL ENGINEER R.S. STORKO PROVINCE OF ONTARIO

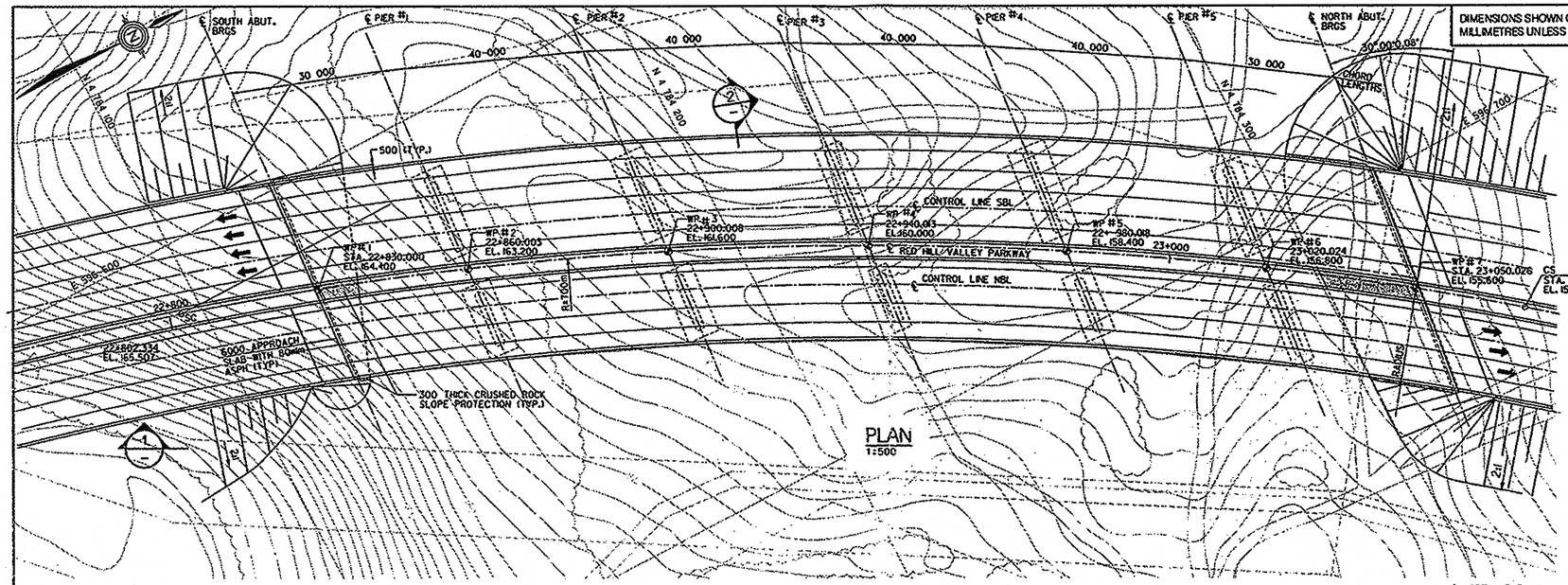
FOR INFORMATION ONLY

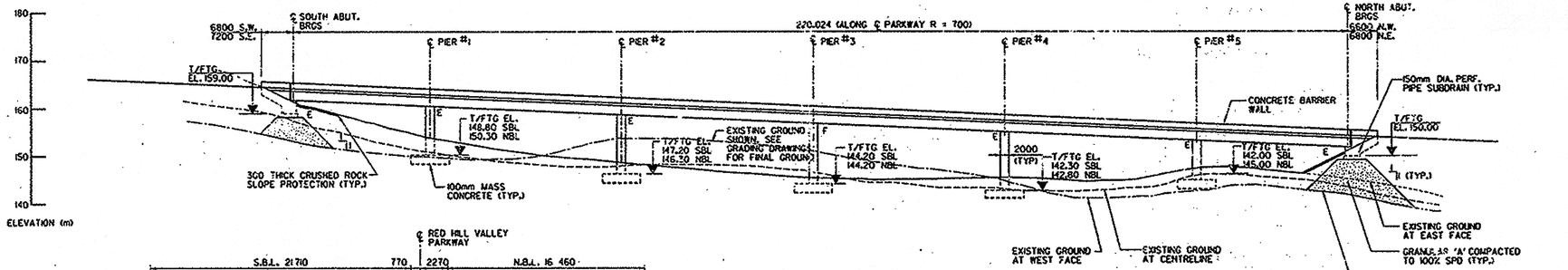
MRC McCORMICK RANKIN CORPORATION

CITY OF HAMILTON
Public Works Department

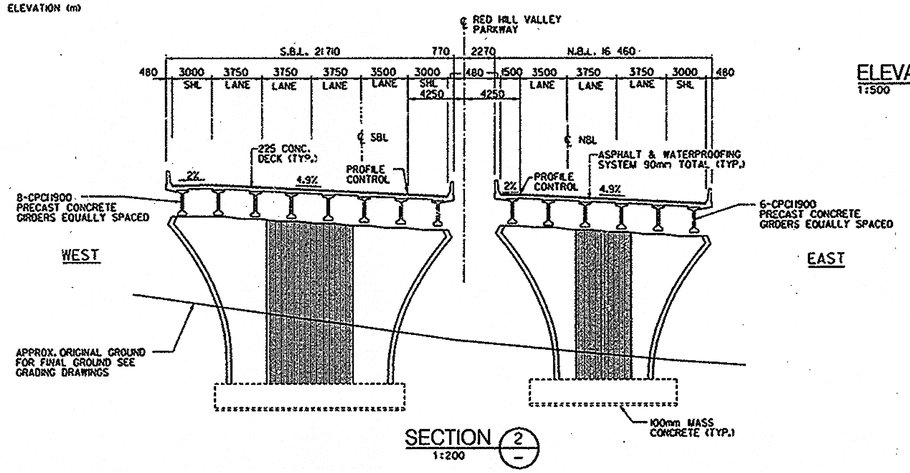
RED HILL VALLEY PROJECT
MAINLINE STRUCTURE NORTH OF CNR

General Arrangement

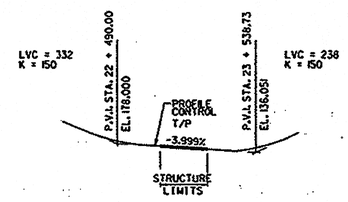




ELEVATION 1 / 1:500



SECTION 2 / 1:200



PROFILE OF RED HILL VALLEY PARKWAY
NOT TO SCALE

DIMENSIONS SHOWN ON THIS PLAN ARE IN MILLIMETRES UNLESS OTHERWISE NOTED

CONTRACT No. PW-05-242 (RHV)
DRAWING No. 06-H-14
FILE No.

SHEET No. S1 OF S9

GENERAL NOTES:

CLASS OF CONCRETE

CONCRETE IN JOINT DAMS, BARRIER WALLS & APPROACH SLABS — 50 MPa (HPC)

CLEAR COVER TO REINFORCING STEEL

ALL UNLESS NOTED OTHERWISE — 70 ± 20

REINFORCING STEEL

REINFORCING STEEL SHALL BE GRADE 400 UNLESS OTHERWISE SPECIFIED.

BAR MARKS WITH PREFIX 'S' DENOTE STAINLESS STEEL BARS.

STAINLESS REINFORCING STEEL SHALL BE TYPE 316LN OR DUPLEX 2205 & HAVE A MINIMUM YIELD STRENGTH OF 420 MPa.

UNLESS SHOWN OTHERWISE, TENSION LAP SPLICES SHALL BE CLASS B.

BAR HOOKS SHALL HAVE STANDARD HOOK DIMENSIONS USING MINIMUM BEND DIAMETERS, WHILE STIRRUPS AND TIES SHALL HAVE MINIMUM HOOK DIMENSIONS. ALL HOOKS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL STANDARD DRAWINGS SS12-1 AND SS12-2, UNLESS INDICATED OTHERWISE

LIST OF DRAWINGS

1. GENERAL ARRANGEMENT
2. BARRIER WALL
3. EXPANSION JOINT I
4. EXPANSION JOINT II
5. EXPANSION JOINT III
6. APPROACH SLABS
7. STANDARD DETAILS
8. EXPANSION JOINT SHOP DRAWING I
9. EXPANSION JOINT SHOP DRAWING II

WORKING POINT DATA

LOCATION	STATION	NORTHING	EASTING
W.P.1	22+830.000	4784422.234	596621.814
W.P.2	22+860.003	4784450.438	596632.038
W.P.3	22+900.008	4784487.314	596647.532
W.P.4	22+940.013	4784223.246	596665.308
W.P.5	22+980.018	4784258.115	596684.707
W.P.6	23+020.024	4784298.808	596706.266
W.P.7	23+050.026	4784336.238	596725.679

THIS CONTRACT INCLUDES APPROACH SLABS, ABUTMENT EXPANSION JOINTS, BARRIER WALL AT JOINT BLOCKOUTS AND ON APPROACH SLABS, WATERPROOFING & PAVING ONLY. BRIDGE CONSTRUCTED UNDER PREVIOUS CONTRACT.

FOR INFORMATION ONLY

No.	REVISIONS	INITIAL	DATE

DRAWN BY: A.M. / B.T. DATE:

REFERENCE MATERIAL:
Road Plans:
Sewer Plans:
Water Plans:
Regional Surveyor:
Geodetic Bench Mark Index No.
Elevation=

SCALES: AS NOTED

A. A. RADULESCU — LICENSED PROFESSIONAL ENGINEER — PROVINCE OF ONTARIO

R. S. STOFKO — LICENSED PROFESSIONAL SURVEYOR — PROVINCE OF ONTARIO

FOR INFORMATION ONLY

MRC McCORMICK RANKIN CORPORATION

CITY OF HAMILTON
Public Works Department

RED HILL VALLEY PROJECT
ESCARPMENT BRIDGE
General Arrangement

CAD Drawing: s:\62\2\contract 06-243\escarpment bridge\ss552-8-000.dgn
Plot Date: 10 APR 106
Plot Time: 15:59:44
CAD Operator: Alan Mason