THORNDALE BRIDGE
IMPROVEMENTS

LIST OF DRAWINGS		Sheet No.
COVER SHEET		1
REMOVALS	FROM STA. 9+525 TO STA. 9+725	REM–01
REMOVALS	FROM STA. 9+725 TO STA. 9+925	REM–02
REMOVALS	FROM STA. 9+925 TO STA. 10+109	REM–03
NEW CONSTRUCTION	FROM STA. 9+525 TO STA. 9+725	NC–01
PROFILE	FROM STA. 9+525 TO STA. 9+725	PR–01
NEW CONSTRUCTION	FROM STA. 9+725 TO STA. 9+925	NC–02
PROFILE	FROM STA. 9+725 TO STA. 9+925	PR–02
NEW CONSTRUCTION	FROM STA. 9+925 TO STA. 10+109	NC–03
PROFILE	FROM STA. 9+925 TO STA. 10+109	PR–03
PAVEMENT MARKINGS AND SIGNAGE	FROM STA. 9+525 TO STA. 9+925	PMK–01
PAVEMENT MARKINGS AND SIGNAGE	FROM STA. 9+925 TO STA. 10+109	PMK–02
TYPICALS		TYP–01
TYPICALS		TYP–02

600 - 171 Queens Avenue
London, ON. N6A 5J7
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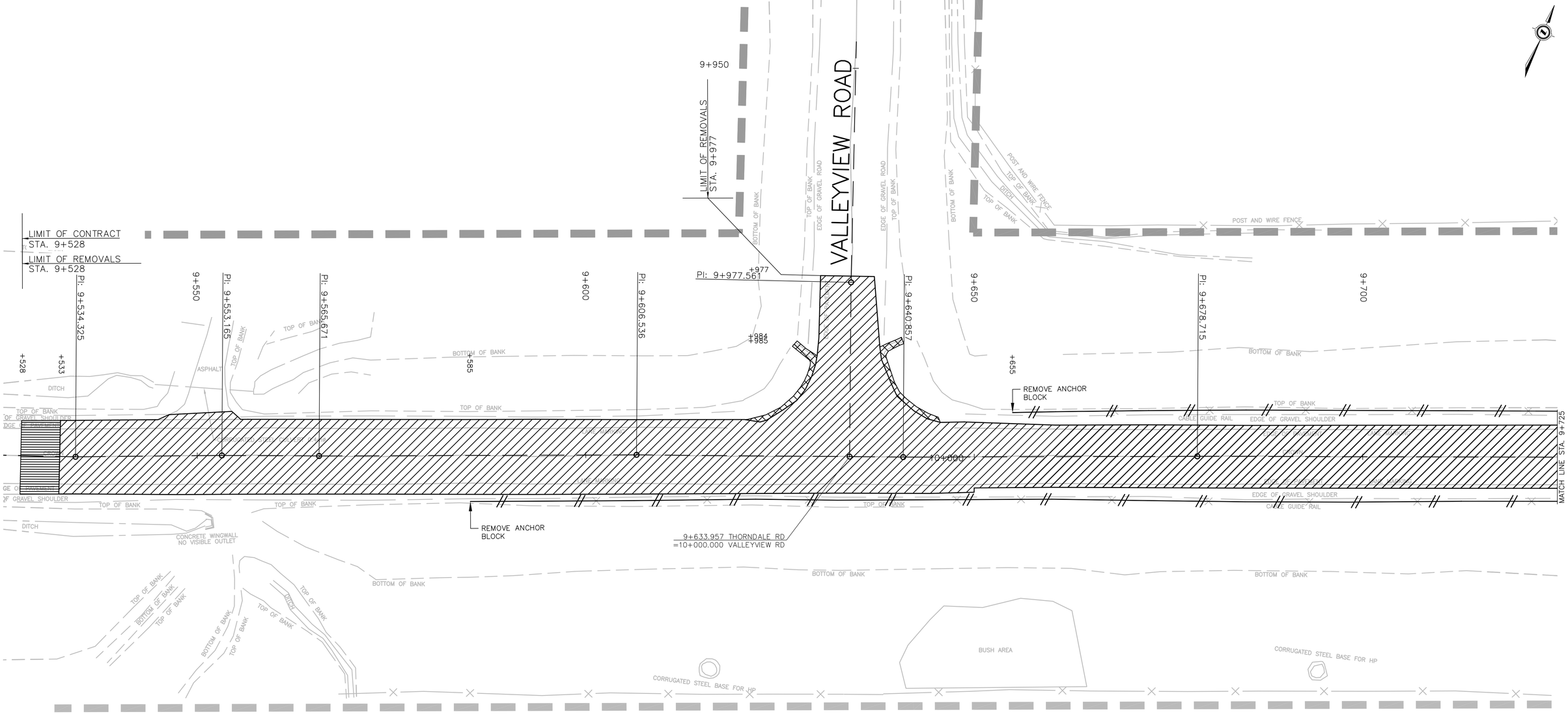
Project No. 1650–01022



SUPLEMENTARY LEGEND

- REMOVAL OF ASPHALT PAVEMENT (FULL DEPTH)
- REMOVAL OF CONCRETE (FULL DEPTH)
- REMOVAL OF ASPHALT PAVEMENT (PATIAL DEPTH – 50mm)
- // REMOVAL SYMBOL

THORNDALE ROAD

EXISTING SERVICES	DRAWING #, SOURCE	DATE	CONSTRUCTED SERVICES	COMPLETION

DETAILS		No.	REVISIONS	DATE	CONSULTANT
DESIGN	FB				
DRAWN BY	FB				
CHECKED	JJ				
APPROVED					
DATE	JUNE 2020				

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ENGINEER'S STAMP

middlesex county

SCALE
HORZSCALE
SCALE – 1 : 250
2.5 0 5m

TITLE
THORNDALE BRIDGE
REMOVALS

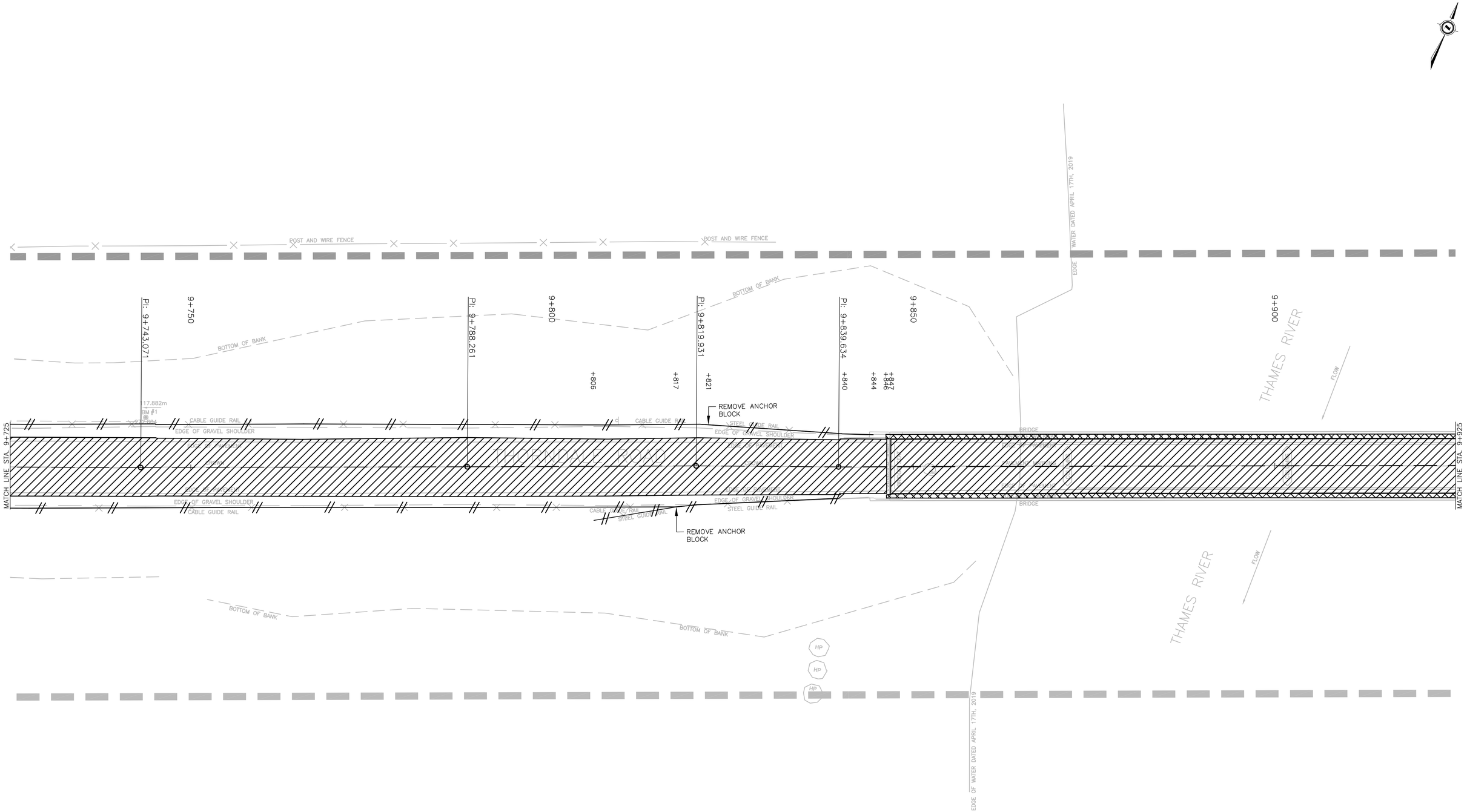
THORNDALE ROAD

STA 9+525 TO 9+725

PROJECT No.
165001122

SHEET No.
REM–01

PLAN FILE No.



THORNDALE ROAD

EXISTING SERVICES	DRAWING #, SOURCE	DATE	CONSTRUCTED SERVICES	COMPLETION

DETAILS	
DESIGN	FB
DRAWN BY	FB
CHECKED	JJ
APPROVED	
DATE	JUNE 2020

No.	REVISIONS	DATE	CONSULTANT

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ENGINEER'S STAMP

middlesex county

SCALE
HORZSCALE
SCALE – 1 : 250
2.5 0 5m

TITLE
THORNDALE BRIDGE
REMOVALS

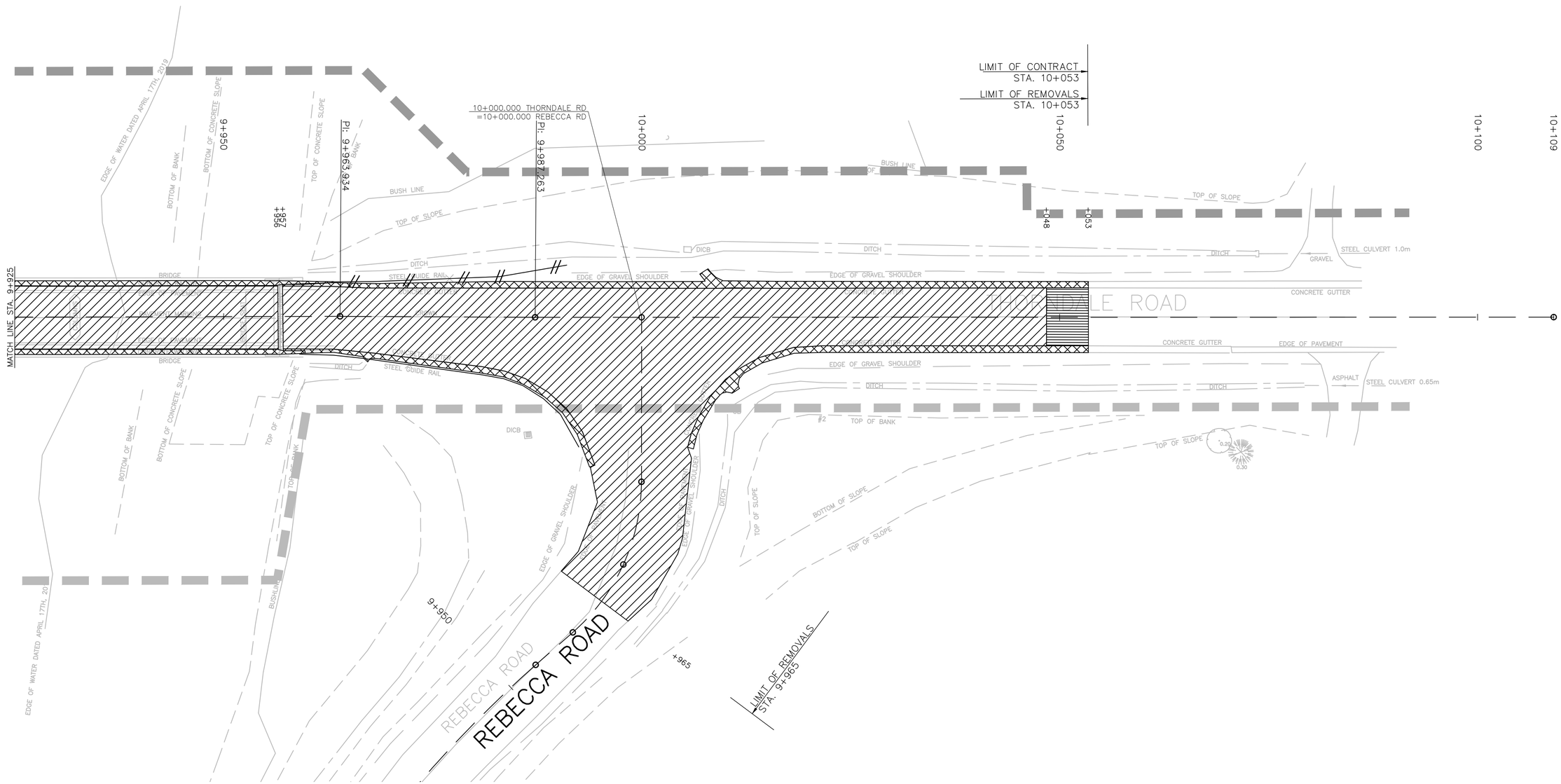
THORNDALE ROAD

STA 9+725 TO 9+925

PROJECT No.
165001122

SHEET No.
REM–02

PLAN FILE No.



THORNDALE ROAD

EXISTING SERVICES	DRAWING #, SOURCE	DATE	CONSTRUCTED SERVICES	COMPLETION

DETAILS	
DESIGN	FB
DRAWN BY	FB
CHECKED	JJ
APPROVED	
DATE	JUNE 2020

No.	REVISIONS	DATE	CONSULTANT

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ENGINEER'S STAMP

middlesex county

SCALE
HORZSCALE
SCALE – 1 : 250
2.5 0 5m

TITLE
THORNDALE BRIDGE
REMOVALS

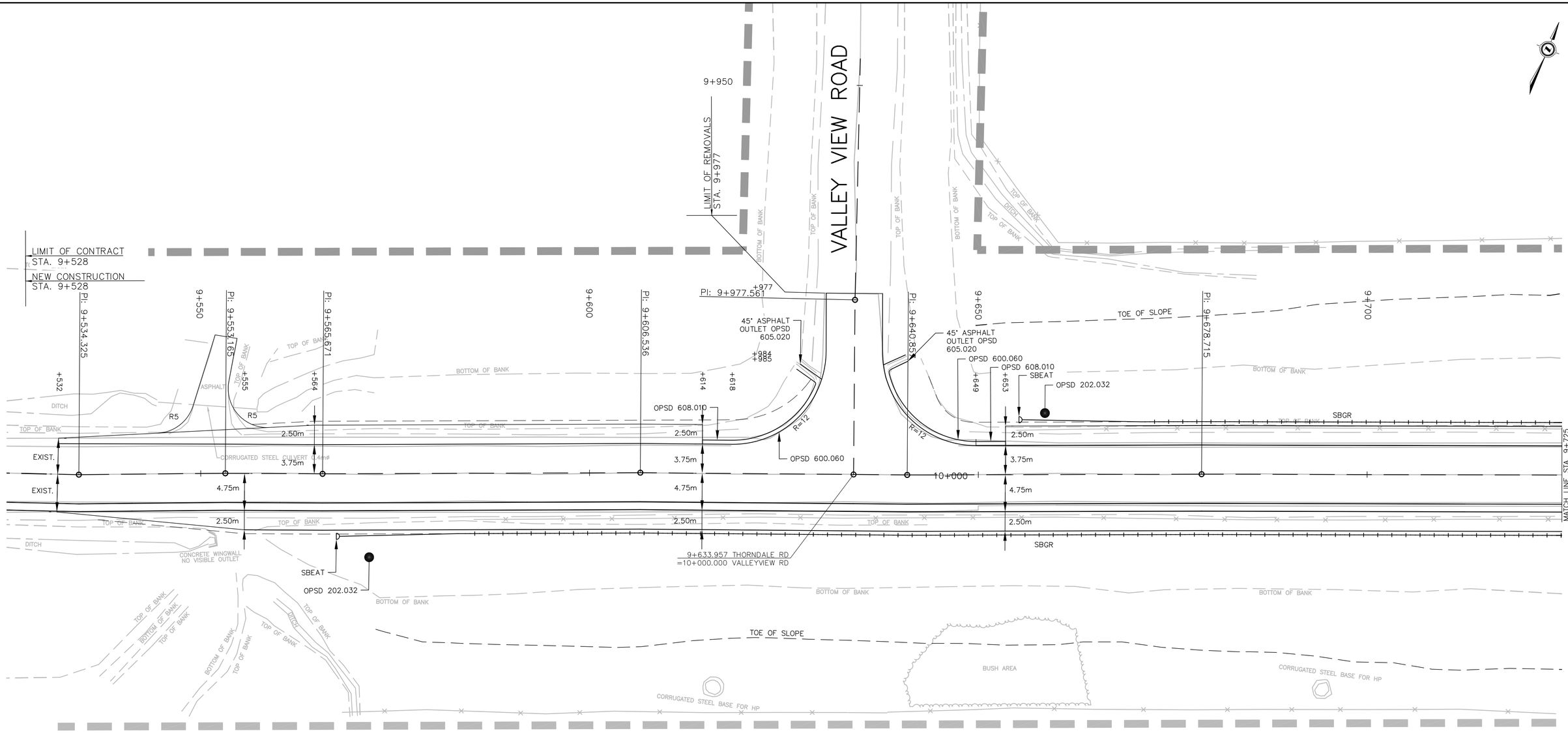
THORNDALE ROAD

STA 9+925 TO 10+109

PROJECT No.
165001122

SHEET No.
REM–03

PLAN FILE No.



THORNDALE ROAD

EXISTING SERVICES	DRAWING #, SOURCE	DATE	CONSTRUCTED SERVICES	COMPLETION

DETAILS	
DESIGN	FB
DRAWN BY	FB
CHECKED	JJ
APPROVED	
DATE	JUNE 2020

No.	REVISIONS	DATE	CONSULTANT

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ENGINEER'S STAMP

middlesex county

SCALE
HORZSCALE
SCALE – 1 : 250
2.5 0 5m

TITLE
THORNDALE ROAD
NEW CONSTRUCTION

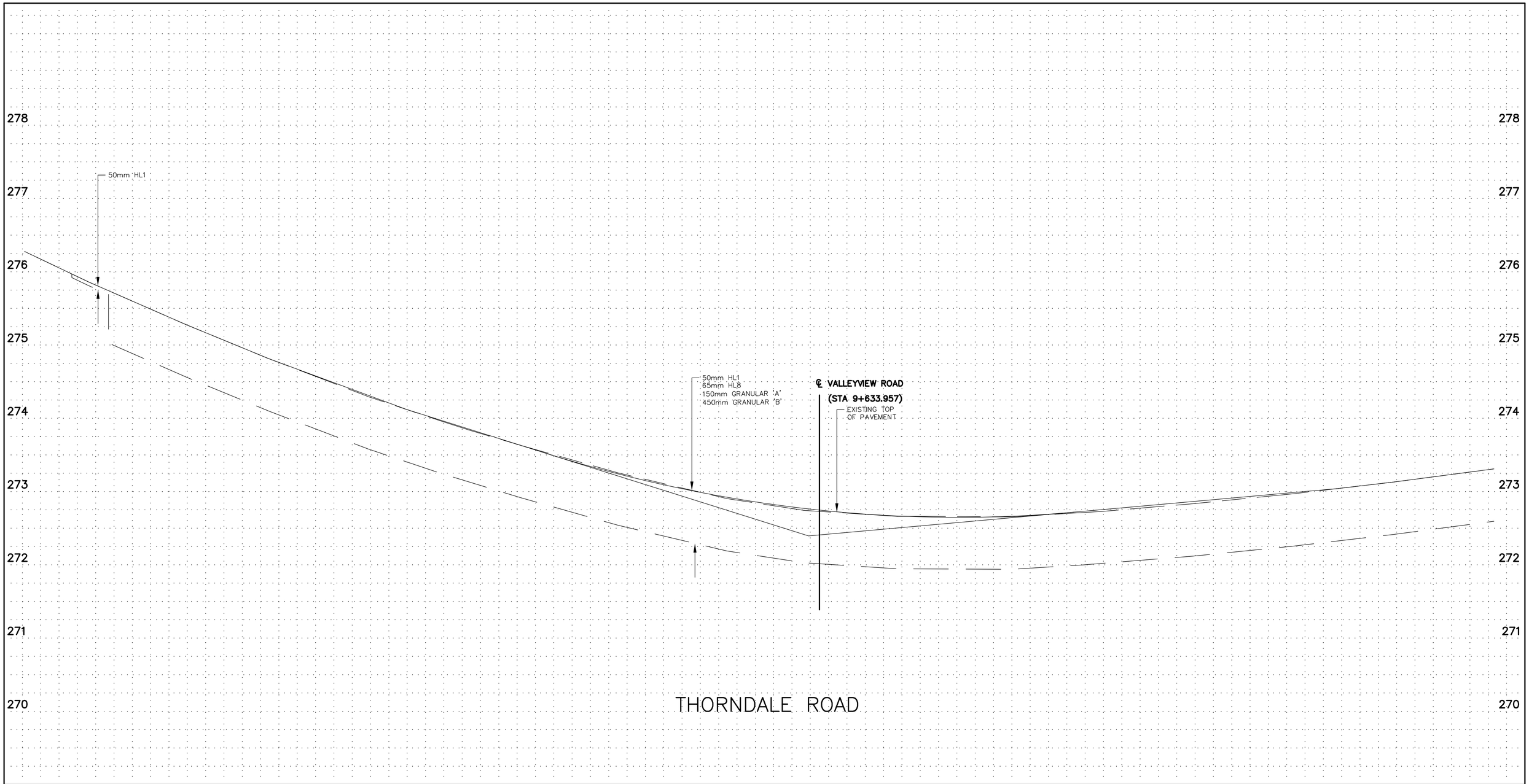
THORNDALE ROAD

STA 9+525 TO 9+725

PROJECT No.
1650–01122

SHEET No.
NC–01

PLAN FILE No.



C.O. WATERMAIN ELEVATION															
STORM SEWER INVERT															
SANITARY SEWER INVERT															
STATION	9+540		9+560			9+580			9+600		9+620		9+640		9+660		9+680		9+700		9+720

EXISTING SERVICES	DRAWING #, SOURCE	DATE	CONSTRUCTED SERVICES	COMPLETION

DETAILS	
DESIGN	FB
DRAWN BY	FB
CHECKED	JJ
APPROVED	
DATE	JUNE 2020

No.	REVISIONS	DATE	CONSULTANT

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ENGINEER'S STAMP

middlesex county

SCALE

VERTSCALE

SCALE – 1 : 25

0.25 0 0.5m

TITLE

THORNDALE ROAD
PROFILE

THORNDALE ROAD

STA 9+525 TO 9+725

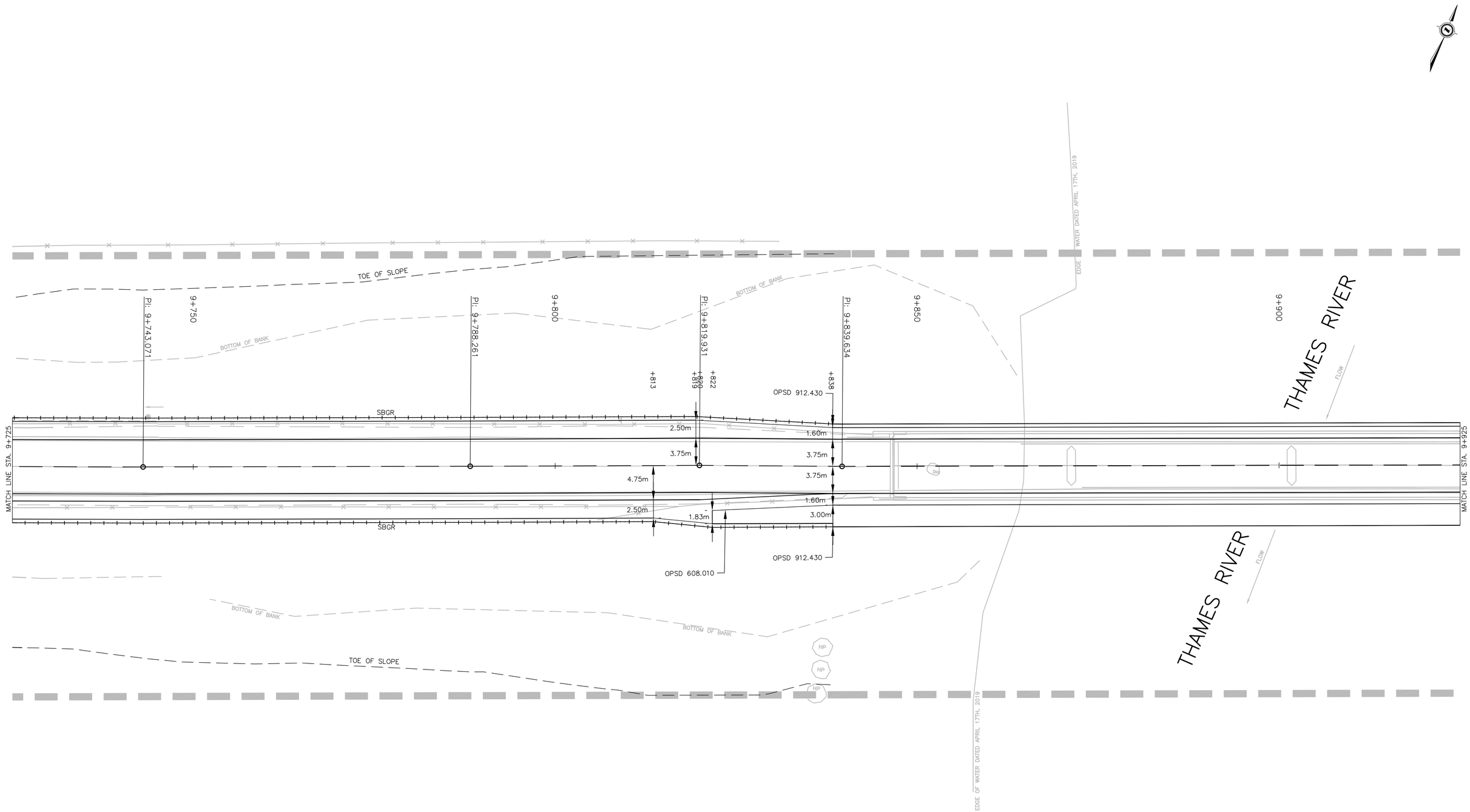
PROJECT No.

PRJ–No

SHEET No.

PR–01

PLAN FILE No.



THORNDALE ROAD

EXISTING SERVICES	DRAWING #, SOURCE	DATE	CONSTRUCTED SERVICES	COMPLETION

DETAILS	
DESIGN	FB
DRAWN BY	FB
CHECKED	JJ
APPROVED	
DATE	JUNE 2020

No.	REVISIONS	DATE	CONSULTANT

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ENGINEER'S STAMP

middlesex county

SCALE
HORZSCALE
SCALE – 1 : 250
2.5 0 5m

TITLE
THORNDALE ROAD
NEW CONSTRUCTION

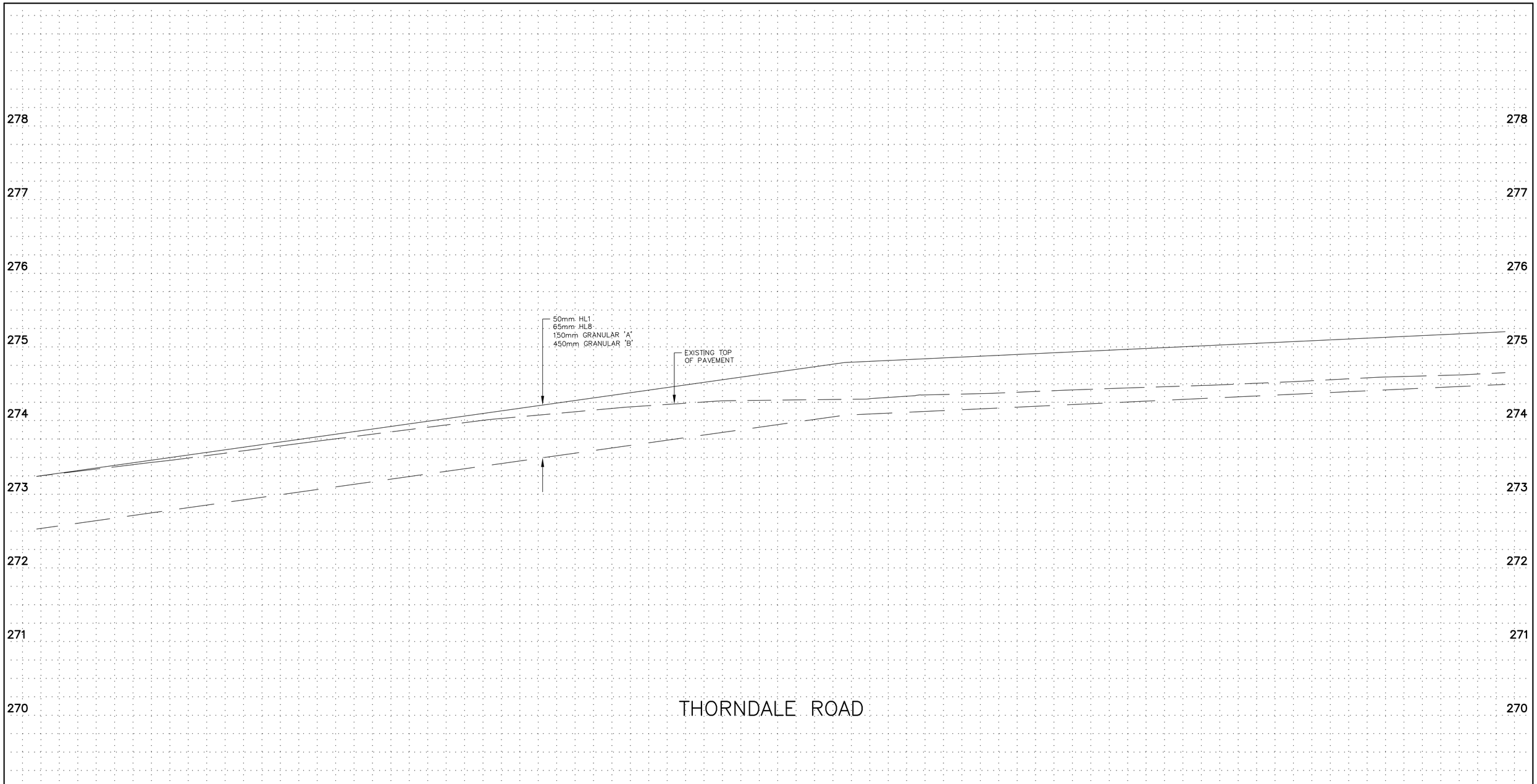
THORNDALE ROAD

STA 9+725 TO 9+925

PROJECT No.
PRJ–No

SHEET No.
NC–02

PLAN FILE No.



C/L WATERMAIN ELEVATION																
STORM SEWER INVERT																
SANITARY SEWER INVERT																
STATION	9+740		9+760		9+780		9+800		9+820		9+840		9+860		9+880		9+900		9+920

EXISTING SERVICES	DRAWING #, SOURCE	DATE	CONSTRUCTED SERVICES	COMPLETION

DETAILS	
DESIGN	FB
DRAWN BY	FB
CHECKED	JJ
APPROVED	
DATE	JUNE 2020

No.	REVISIONS	DATE	CONSULTANT

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ENGINEER'S STAMP

middlesex county

SCALE
VERTSCALE
SCALE – 1 : 25
0.25 0 0.5m

TITLE
THORNDALE ROAD
PROFILE

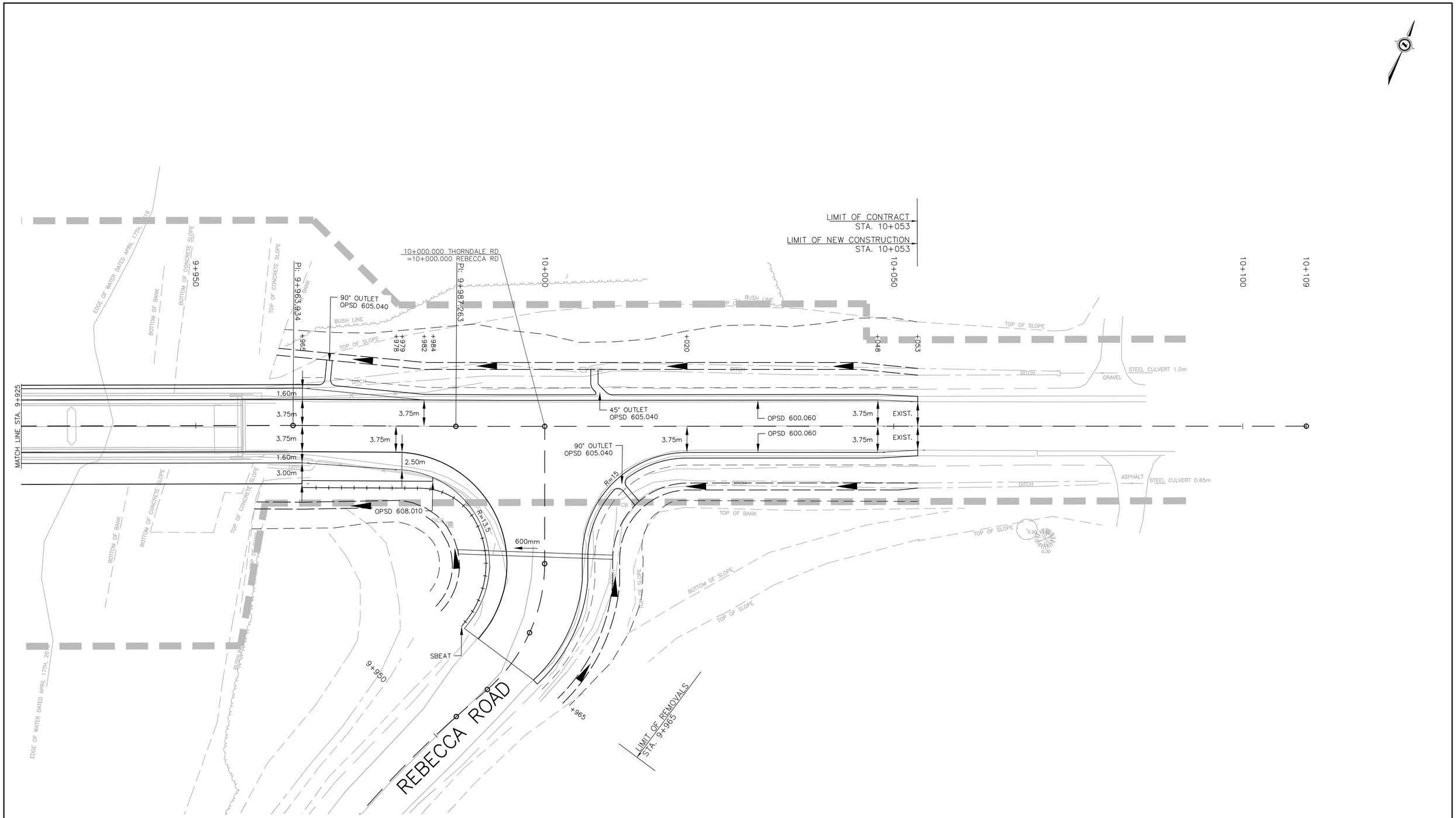
THORNDALE ROAD

STA 9+725 TO 9+925

PROJECT No.
PRJ–No

SHEET No.
PR–02

PLAN FILE No.



THORNDALE ROAD

EXISTING SERVICES	DRAWING #, SOURCE	DATE	CONSTRUCTED SERVICES	COMPLETION

DETAILS	
DESIGN	FB
DRAWN BY	FB
CHECKED	JJ
APPROVED	
DATE	JUNE 2020

No.	REVISIONS	DATE	CONSULTANT

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ENGINEER'S STAMP

middlesex county

SCALE
HORZSCALE
SCALE – 1 : 250
2.5 0 5m

TITLE
THORNDALE ROAD
NEW CONSTRUCTION

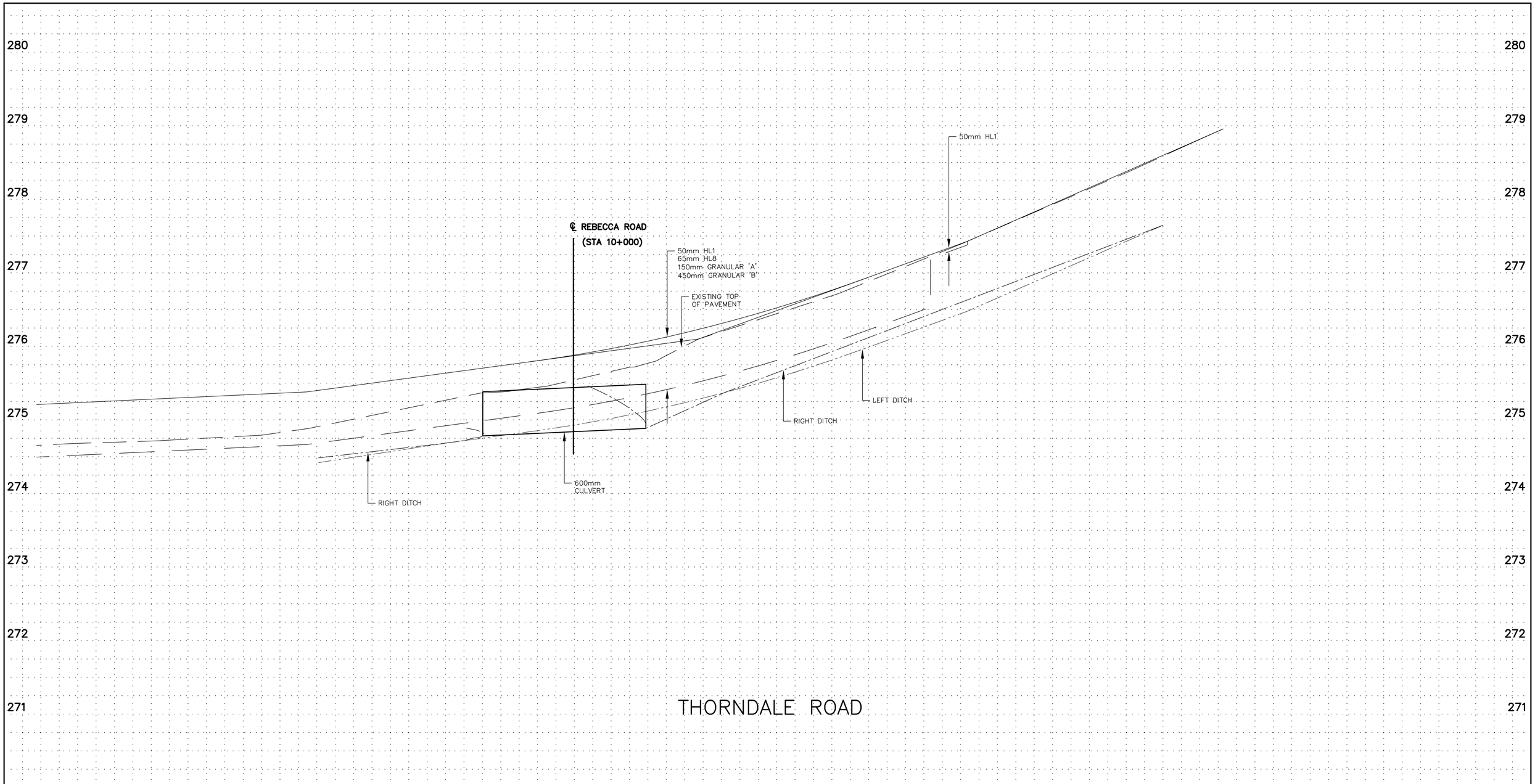
THORNDALE ROAD

STA 9+925 TO 10+109

PROJECT No.
PRJ–No

SHEET No.
NC–03

PLAN FILE No.



C.O. WATERMAIN ELEVATION																	
STORM SEWER INVERT																	
SANITARY SEWER INVERT																	
STATION		9+940		9+960		9+980		10+000		10+020		10+040		10+060		10+080		10+100		10+109.11

EXISTING SERVICES	DRAWING #, SOURCE	DATE	CONSTRUCTED SERVICES	COMPLETION

DETAILS	
DESIGN	FB
DRAWN BY	FB
CHECKED	JJ
APPROVED	
DATE	JUNE 2020

No.	REVISIONS	DATE	CONSULTANT

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ENGINEER'S STAMP

middlesex county

SCALE
VERTSCALE
SCALE – 1 : 25
0.25 0 0.5m

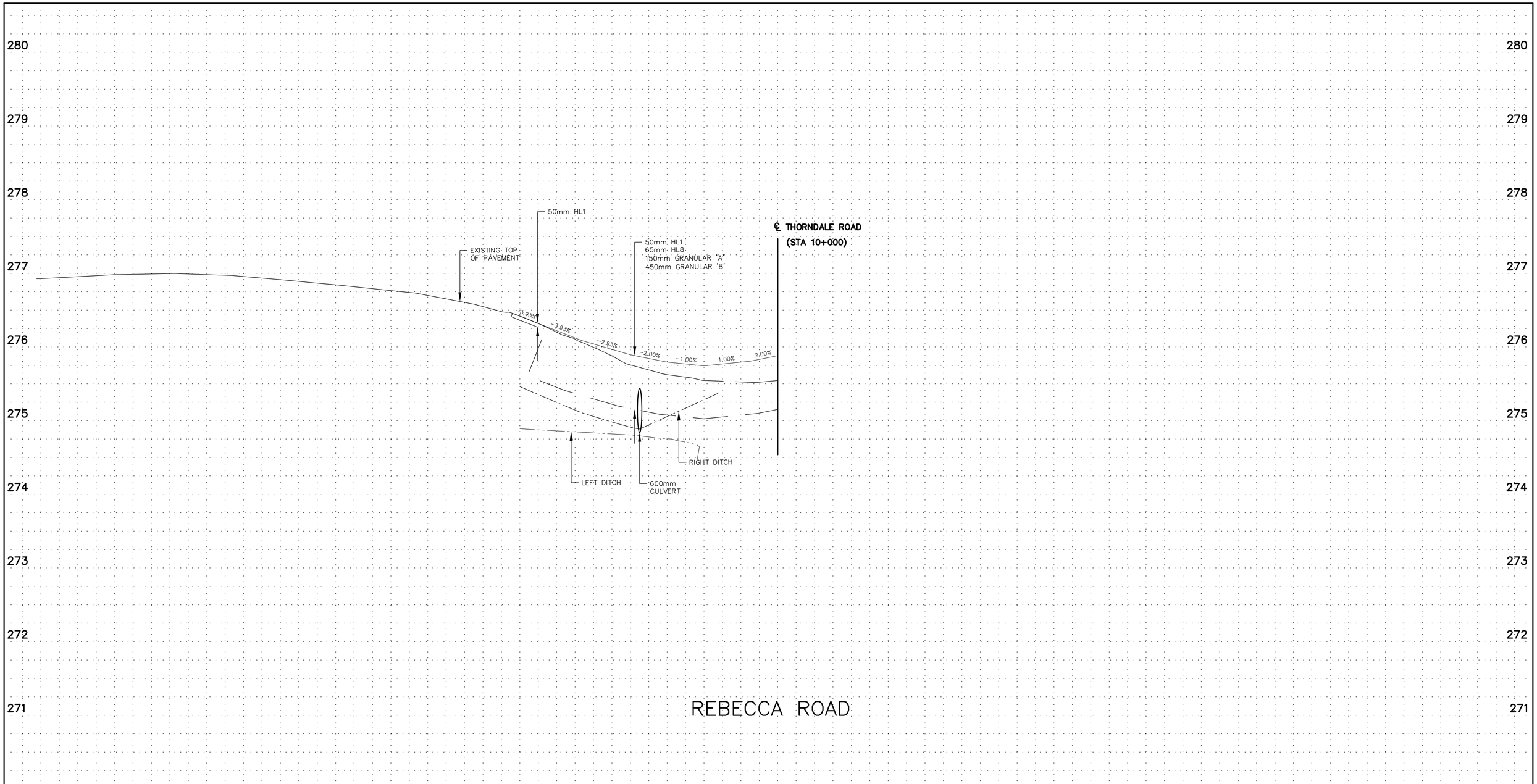
TITLE
THORNDALE ROAD
PROFILE

THORNDALE ROAD
STA 9+925 TO 10+109

PROJECT No.
PRJ–No

SHEET No.
PR–03

PLAN FILE No.



O.A. WATERMAIN ELEVATION											
STORM SEWER INVERT											
SANITARY SEWER INVERT											
STATION	9+900		9+920		9+940		9+960		9+980		10+000

EXISTING SERVICES	DRAWING #, SOURCE	DATE	CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT
					DESIGN FB				
					DRAWN BY FB				
					CHECKED JJ				
					APPROVED				
					DATE JUNE 2020				

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ENGINEER'S STAMP

middlesex county

SCALE
VERTSCALE
SCALE – 1 : 25
0.25 0 0.5m

TITLE
REBECCA ROAD
PROFILE

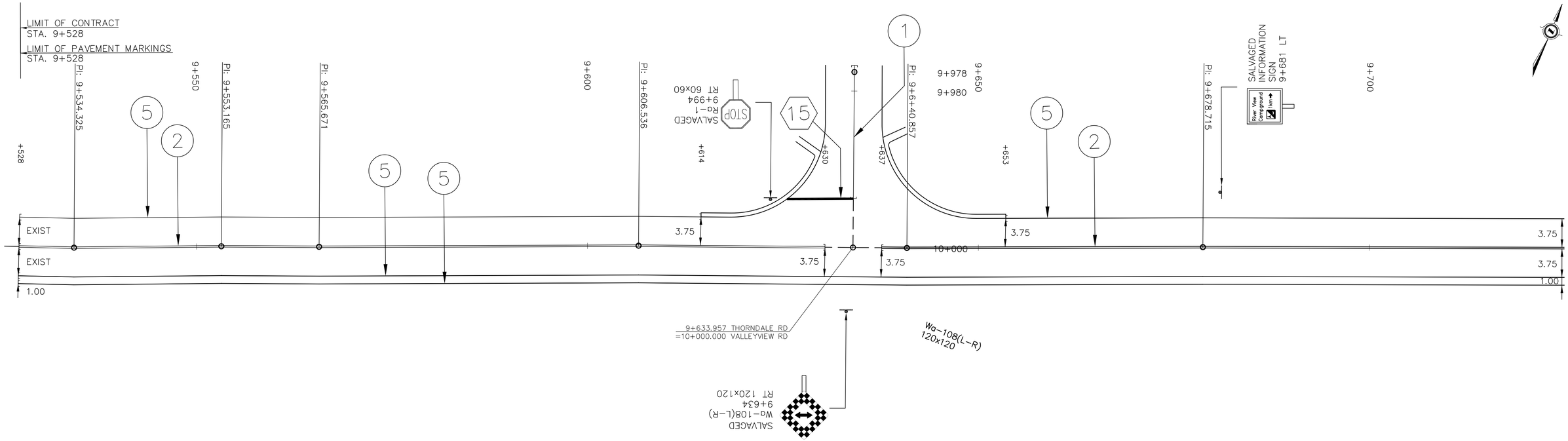
THORNDALE ROAD

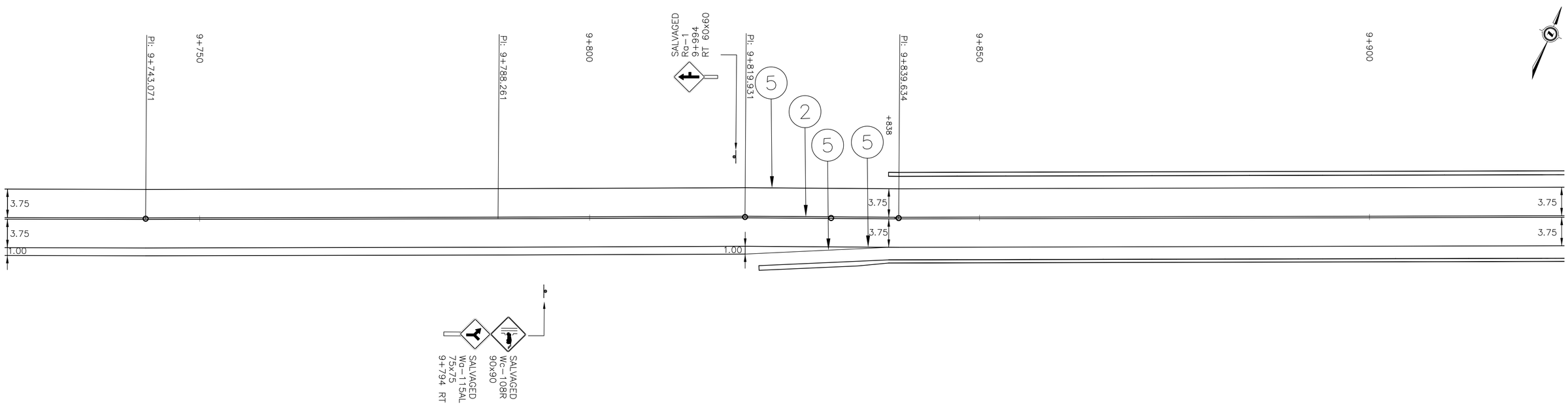
STA 9+900 TO 10+000

PROJECT No.
PRJ–No

SHEET No.
PR–04

PLAN FILE No.





EXISTING SERVICES	DRAWING #, SOURCE	DATE	CONSTRUCTED SERVICES	COMPLETION

DETAILS	
DESIGN	FB
DRAWN BY	FB
CHECKED	JJ
APPROVED	
DATE	JUNE 2020

No.	REVISIONS	DATE	CONSULTANT

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ENGINEER'S STAMP

middlesex county

SCALE
HORZSCALE
SCALE - 1 : 250
2.5 0 5m

TITLE
THORNDALE BRIDGE
PAVEMENT MARKINGS & SIGNS

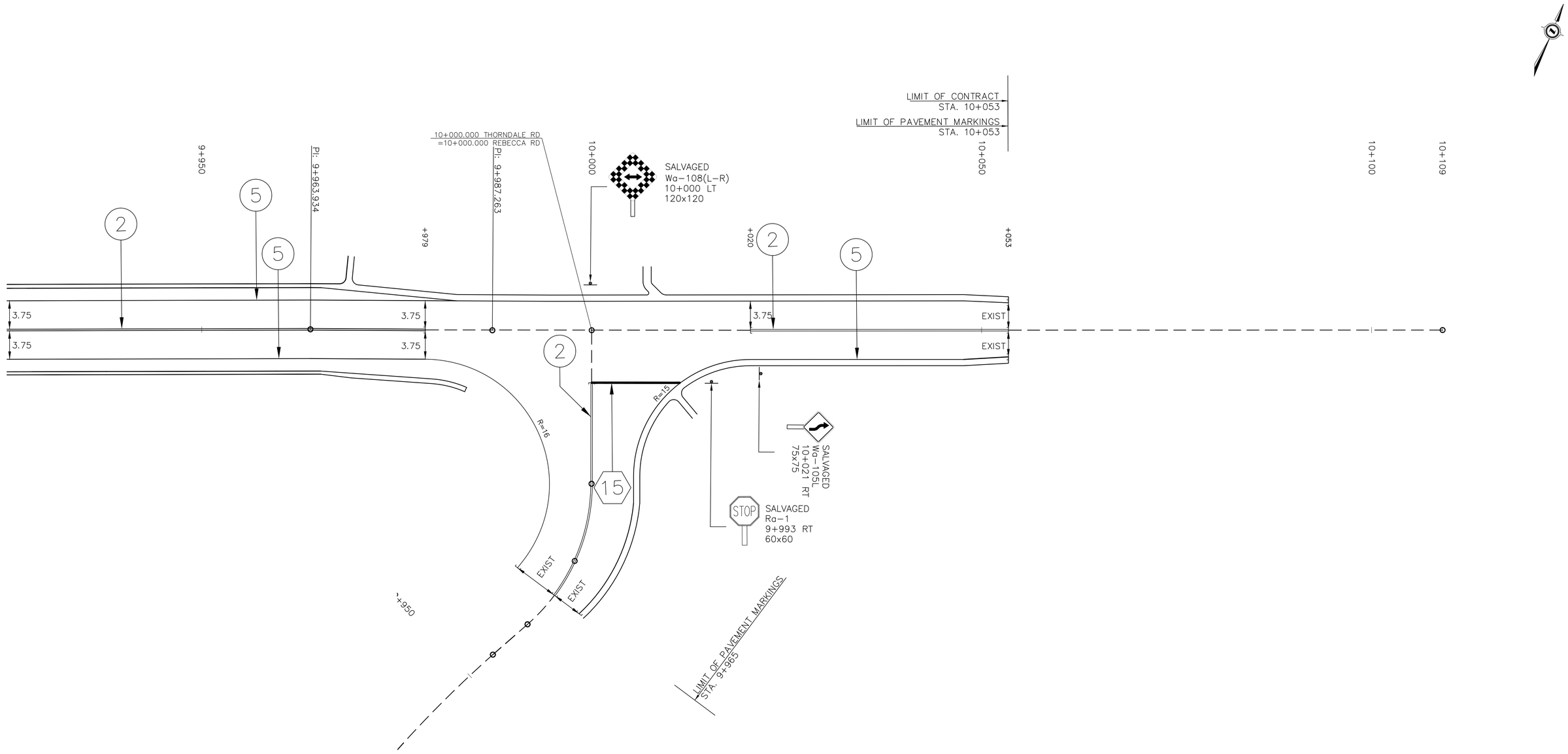
THORNDALE ROAD

STA 9+525 TO 9+925

PROJECT No.
165001122

SHEET No.
PMK-01

PLAN FILE No.



EXISTING SERVICES	DRAWING #, SOURCE	DATE	CONSTRUCTED SERVICES	COMPLETION

DETAILS	
DESIGN	FB
DRAWN BY	FB
CHECKED	JJ
APPROVED	
DATE	JUNE 2020

No.	REVISIONS	DATE	CONSULTANT

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middlesex county

SCALE
HORZSCALE
SCALE – 1 : 250
2.5 0 5m

TITLE
THORNDALE BRIDGE
NEW CONSTRUCTION

THORNDALE ROAD

STA 9+925 TO 10+109

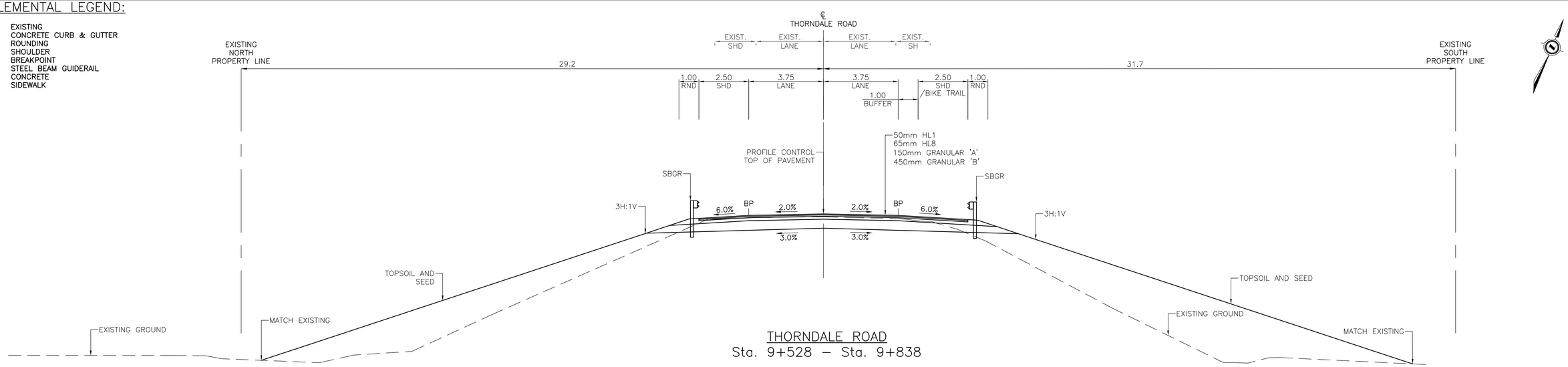
PROJECT No.
165001122

SHEET No.
PMK-02

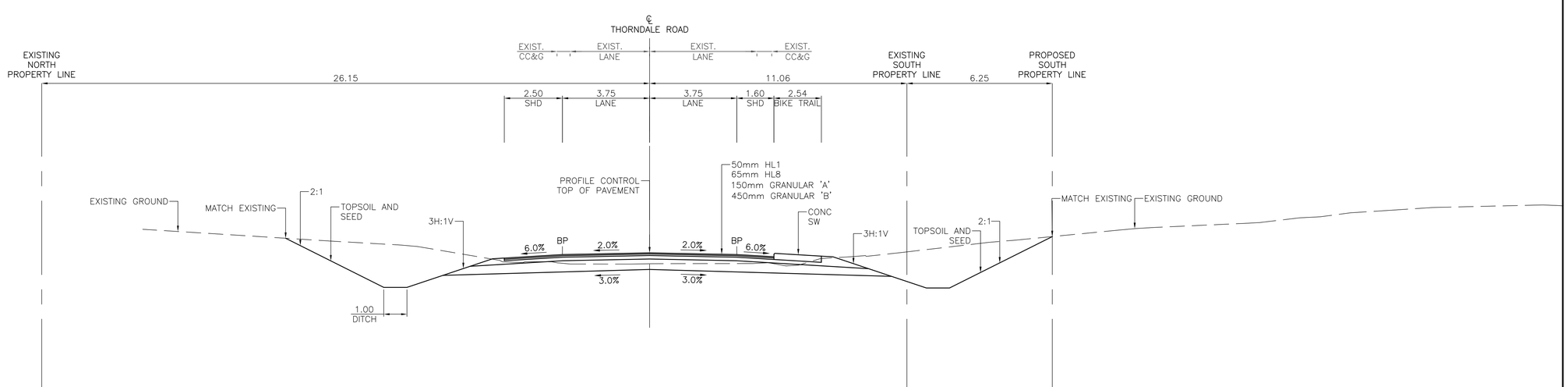
PLAN FILE No.

SUPPLEMENTAL LEGEND:

EXIST. – EXISTING
CC&G – CONCRETE CURB & GUTTER
RND – ROUNDING
SHD – SHOULDER
BP – BREAKPOINT
SBGR – STEEL BEAM GUIDERAIL
CONC – CONCRETE
SW – SIDEWALK



THORNDALE ROAD
Sta. 9+528 – Sta. 9+838



THORNDALE ROAD
Sta. 9+965 – Sta. 10+020

EXISTING SERVICES	DRAWING #, SOURCE	DATE	CONSTRUCTED SERVICES	COMPLETION

DETAILS	
DESIGN	FB
DRAWN BY	FB
CHECKED	JJ
APPROVED	
DATE	JUNE 2020

No.	REVISIONS	DATE	CONSULTANT

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ENGINEER'S STAMP

middlesex county

SCALE
N.T.S.

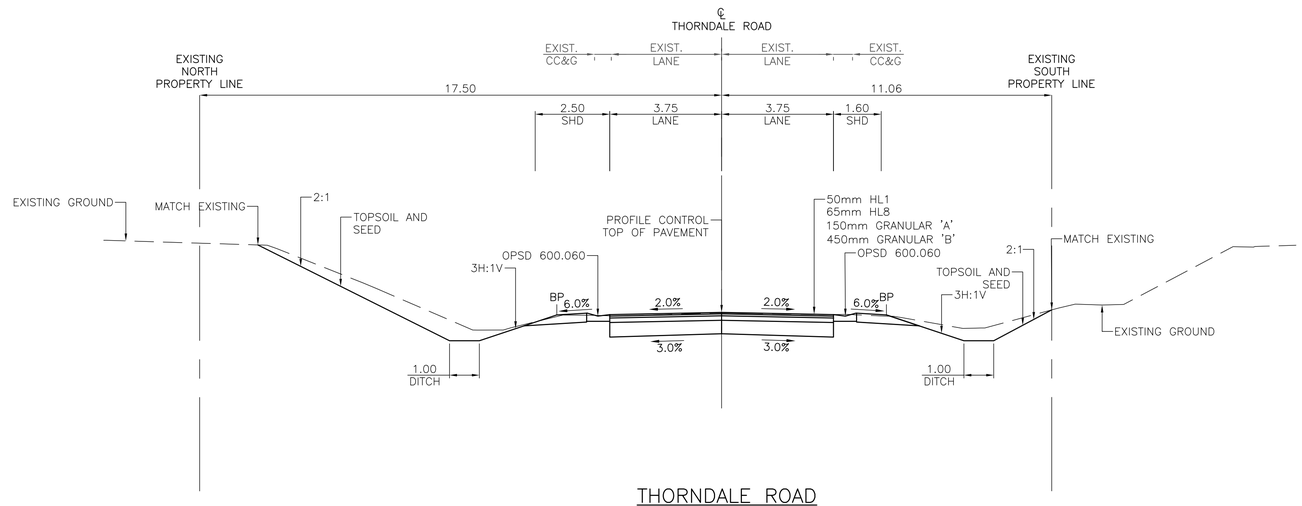
TITLE
THORNDALE BRIDGE
TYPICALS

THORNDALE ROAD

PROJECT No.
165001122

SHEET No.
TYP–01

PLAN FILE No.



THORNDALE ROAD
Sta. 10+020 – Sta. 10+053

EXISTING SERVICES	DRAWING #, SOURCE	DATE	CONSTRUCTED SERVICES	COMPLETION

DETAILS	
DESIGN	FB
DRAWN BY	FB
CHECKED	JJ
APPROVED	
DATE	JUNE 2020

No.	REVISIONS	DATE	CONSULTANT

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ENGINEER'S STAMP

middlesex county

SCALE
N.T.S.

TITLE
THORNDALE BRIDGE
TYPICALS

THORNDALE ROAD

PROJECT No.
165001122

SHEET No.
TYP–02

PLAN FILE No.

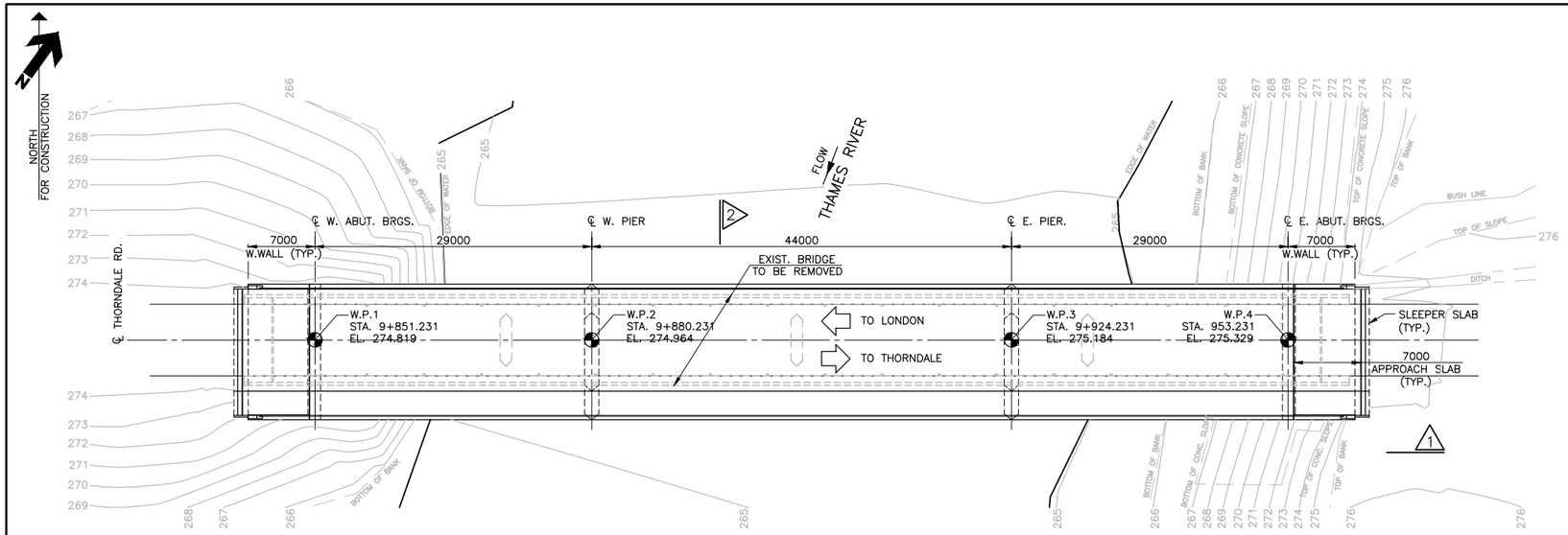
METRIC
DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN

COUNT. RD. 28
CONT
WP

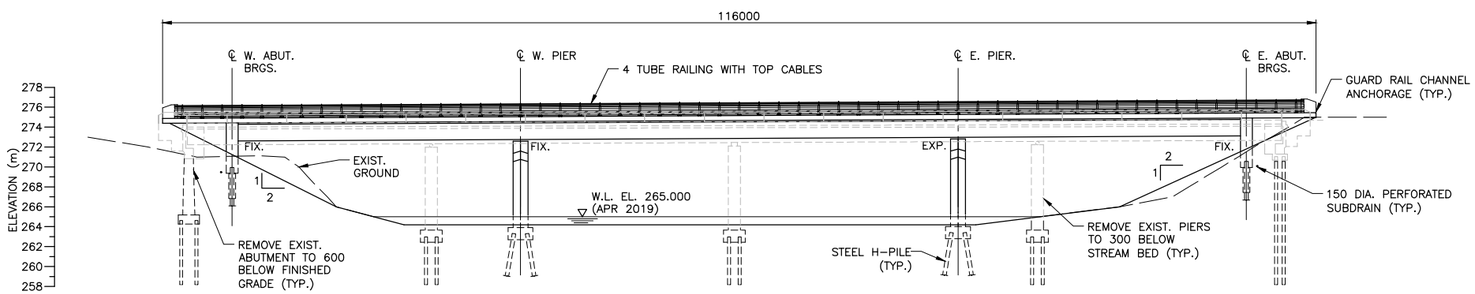
THORNDALE BRIDGE REPLACEMENT
PRELIMINARY
GENERAL ARRANGEMENT

SHEET
.

Stantec



PLAN
1:300



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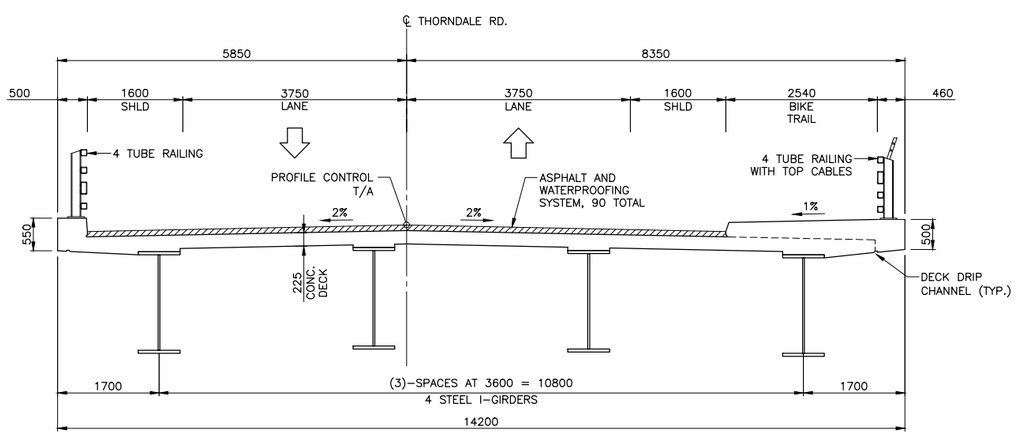
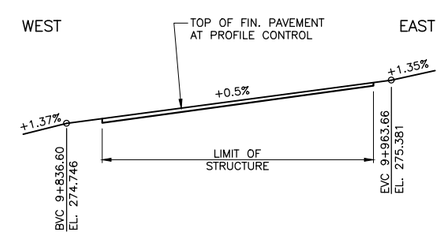


2
1 : 50



PROFILE OF THORNDALE ROAD
N.T.S.

GENERAL NOTES

1. CLASS OF CONCRETE
   30 MPa UNLESS OTHERWISE SPECIFIED
2. CLEAR COVER TO REINFORCING STEEL
   FOOTINGS 100±25
   DECK TOP 70±20
   BOTTOM 40±10
   REMAINDER 70±20 UNLESS OTHERWISE NOTED.
3. REINFORCING STEEL
   REINFORCING STEEL SHALL BE GRADE 500W UNLESS OTHERWISE SPECIFIED.
   STAINLESS REINFORCING STEEL SHALL BE TYPE 316LN, OR DUPLEX 2205 AND HAVE A MINIMUM YIELD STRENGTH OF 500 MPa.
   BAR MARKS WITH PREFIX 'S' DENOTE STAINLESS STEEL BARS.
   GLASS FIBRE REINFORCED POLYMER (GFRP) REINFORCING BARS SHALL BE GRADE III. THE NOMINAL DIAMETER, TENSILE MODULUS OF ELASTICITY AND GUARANTEED MINIMUM TENSILE STRENGTH SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS.
   BAR MARKS WITH PREFIX GIII DENOTE GRADE III GLASS FIBRE REINFORCED POLYMER BARS.
   TENSION LAP LENGTHS NOT INDICATED ON THE CONTRACT DRAWINGS 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 DRAWING SS12-1, UNLESS INDICATED OTHERWISE.
4. CONSTRUCTION
   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 DESIGN DATA, THE CONTRACTOR SHALL ADJUST THE REINFORCING STEEL TO SUIT.
   BACKFILL BEHIND ABUTMENTS SHALL NOT BE PLACED UNTIL THE DECK HAS REACHED A STRENGTH OF 25 MPa.
   BACKFILL SHALL BE PLACED SIMULTANEOUSLY BEHIND BOTH CONCRETE ABUTMENTS KEEPING THE HEIGHT OF THE BACKFILL APPROXIMATELY THE SAME. AT NO TIME SHALL THE DIFFERENCE IN ELEVATION BE GREATER THAN 500mm.

LEGEND

W.P. DENOTES WORKING POINT
T/A DENOTES TOP OF ASPHALT

APPLICABLE STANDARD DRAWINGS

OPSD-912.430	GUIDE RAIL SYSTEM, STEEL BEAM STRUCTURE CONNECTION
OPSD-3101.150	WALLS ABUTMENT, BACKFILL MINIMUM GRANULAR REQUIREMENT
OPSD-3370.100	DECK, WATERPROOFING HOT APPLIED ASPHALT MEMBRANE WITH PROTECTION BOARD
OPSD-3370.101	DECK, WATERPROOFING HOT APPLIED ASPHALT MEMBRANE AT ACTIVE CRACKS GREATER THAN 2mm WIDE AND CONSTRUCTION JOINTS
OPSD-3390.100	DECK, DRIP CHANNEL
OPSD-3950.100	JOINTS, CONCRETE EXPANSION & CONSTRUCTION ON STRUCTURE

DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING

REVISIONS

DATE	BY	DESCRIPTION

DESIGN F.S.A.	CHK M.D.	CODE CHBDC-2019	LOAD CL-625-ONT	DATE	JULY 2021
DRAWN H.L.	CHK F.S.A.	SITE 174	STRUCT	SCHEME	DWG. P1

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