

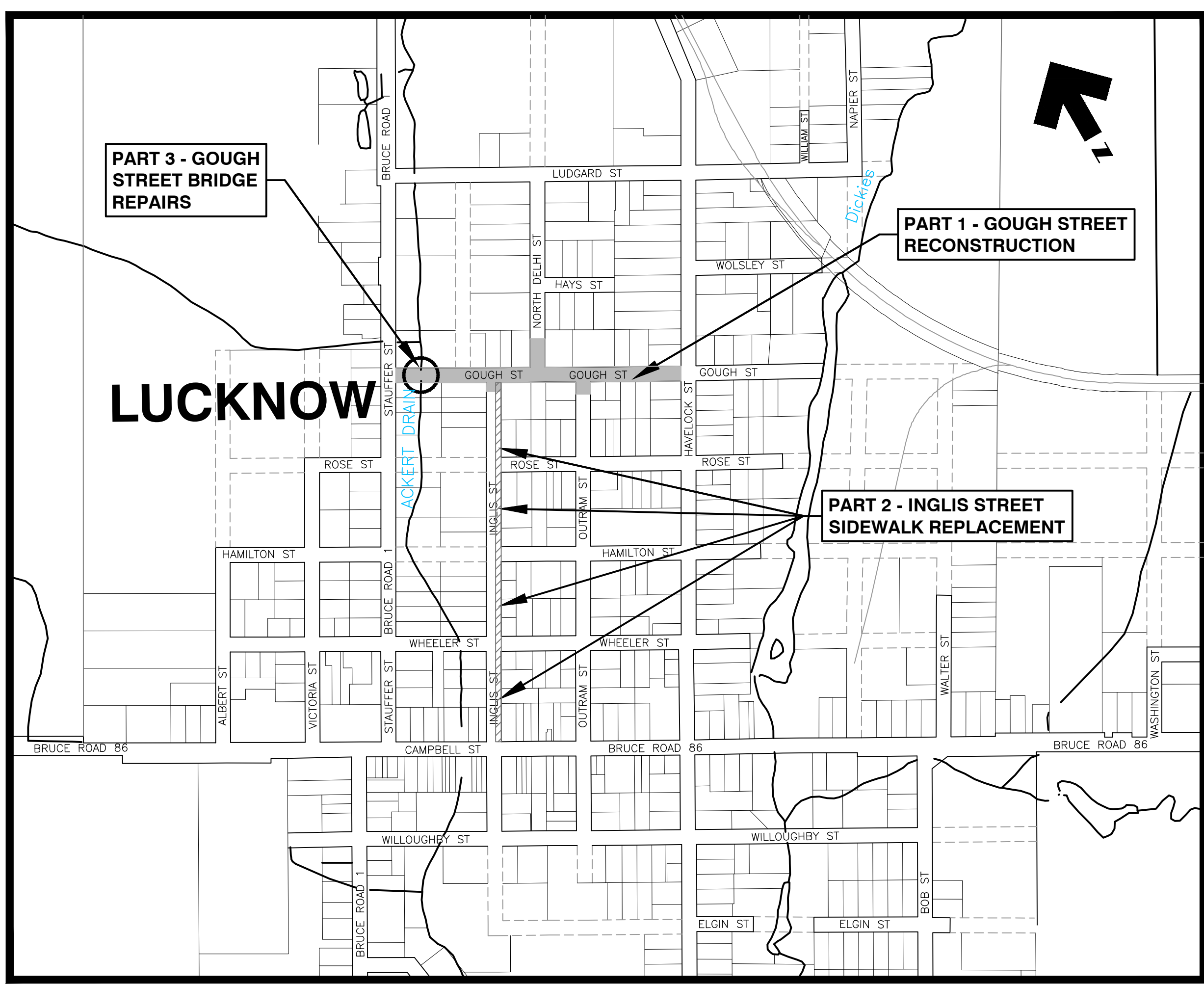
TOWNSHIP OF HURON-KINLOSS

GOUGH STREET

RECONSTRUCTION (LUCKNOW)

PROJECT Nos. 23037 & BR174B
CONTRACT No. 23037

DWG No.	PART No.	DESCRIPTION
1	1	GOUGH STREET RECONSTRUCTION
2	1	GOUGH STREET RECONSTRUCTION
3	1	GOUGH STREET RECONSTRUCTION
4	1	NORTH DELHI - WATERMAIN
5	2	INGLIS STREET SIDEWALK
6	2	INGLIS STREET SIDEWALK
7	2	INGLIST STREET SIDEWALK
S1	3	GOUGH STREET BRIDGE REPAIRS
S2	3	GOUGH STREET BRIDGE REPAIRS



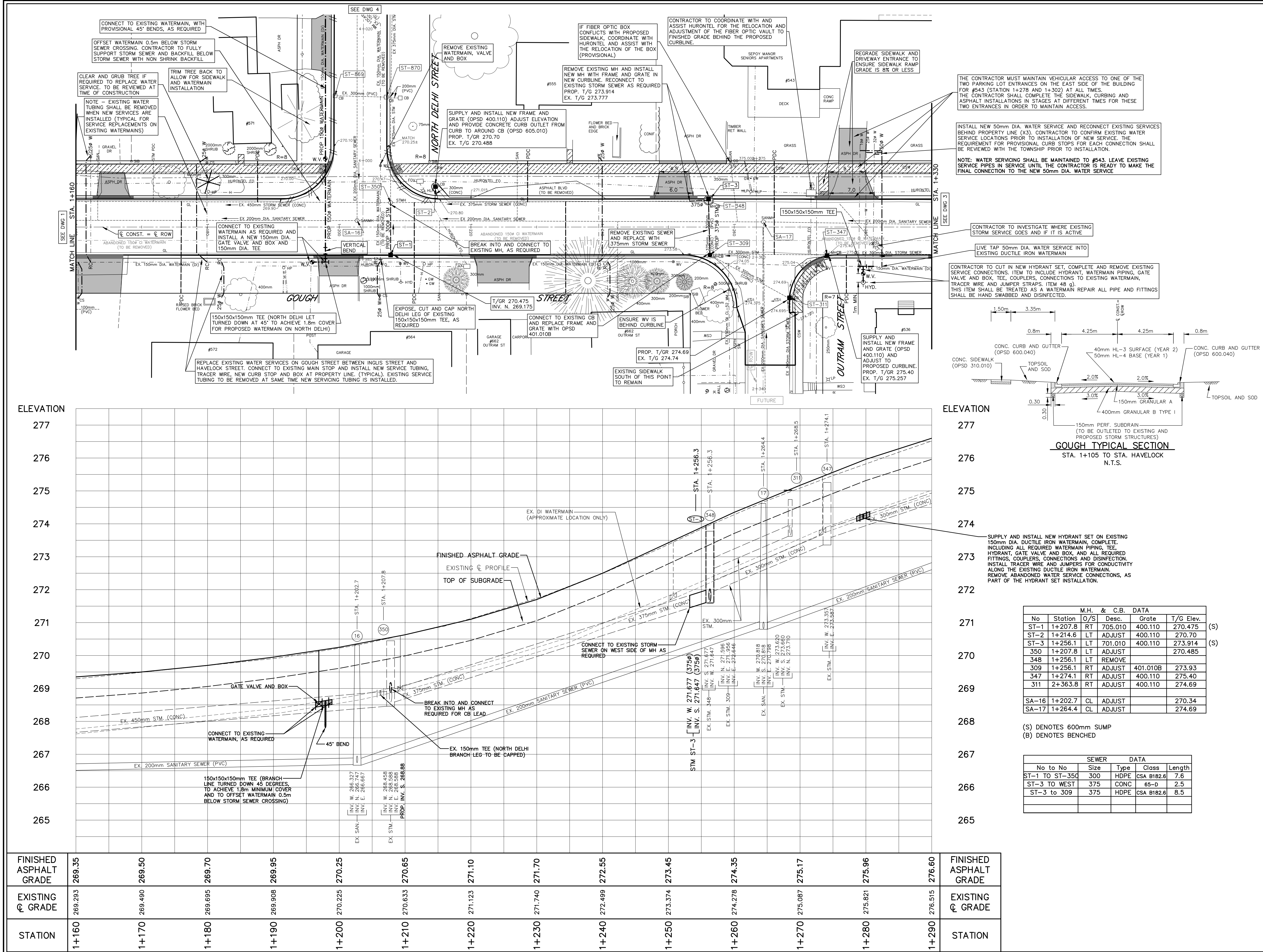
KEY PLAN

N.T.S.



FEBRUARY 27, 2025
ISSUED FOR TENDER





LEGEND

--- SAN. or STM. --- EXISTING SEWERS, SANITARY or STORM
--- M.H. CB --- MANHOLE AND CATCHBASIN
--- --- WATERMAIN, --- FIRE HYDRANT
--- --- GASMAIN
--- --- UNDERGROUND TELEPHONE
--- --- UNDERGROUND HYDRO
--- --- UNDERGROUND T.V. CABLE
--- --- UTILITY POLES
--- --- GRUBBING
--- --- REMOVE EXISTING CONC. SIDEWALK AND DRIVES
--- --- PLACE CONC. SIDEWALK AND DRIVES
--- --- PLACE HOT MIX ASPHALT (DRIVES 30mm HL-3 HOT MIX MISC.)
--- --- DROP CURB
--- --- REMOVE EXISTING CONC. CURB

1:250

1:50

CONSTRUCTION NORTH

NOTE

The locations of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work and agrees to be fully responsible for any damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

BENCHMARK INFORMATION

BENCHMARK INFORMATION

Design By: A.E.T. Checked By: R.R.R.

CERTIFIED ENGINEERING
Feb 27, 2025
K.D. LOFTENBERG
PROVINCE OF ONTARIO
No. 816693

LICENCED PROFESSIONAL ENGINEER
Feb 27, 2025
K.D. LOFTENBERG
PROVINCE OF ONTARIO
No. 816693

No.	DATE	REVISION
1	Apr. 29, 2024	Preliminary Design - Issued for Client Comment
2	Sept. 6, 2024	Issued for Client Comment
3	Jan. 20, 2025	Issued for Client Review
4	Feb. 27, 2025	Issued for Tender

BMROSS
engineering better communities

Huron-Kinloss

Township of Huron-Kinloss
Gough Street Reconstruction
(Part 1)
Plan and Profile from Sta. 1+160 to Sta. 1+290

Contract No.	Project No.
23037	23037

Scale (24x36)
Horizontal : 1 : 250
Vertical : 1 : 50

Drawing No.
2

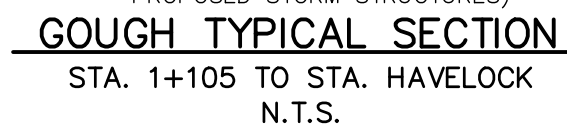
ELEVATION					
277					
276					
275					
274					
273					
272					
271					
270					
269					
268					
267					
266					
265					

GOUGH TYPICAL SECTION					
STA. 1+105 TO STA. HAVELOCK N.T.S.					
1.50m	3.35m	0.8m	4.25m	4.25m	0.8m
CONC. CURB AND GUTTER (OPSD 600.040)	TOPSOIL AND SOD	40mm HL-3 SURFACE (YEAR 2)	50mm HL-4 BASE (YEAR 1)	CONC. CURB AND GUTTER (OPSD 600.040)	TOPSOIL AND SOD
CONC. SIDEWALK (OPSD 310.010)	3.0%	2.0%	2.0%	3.0%	
	150mm GRANULAR A	400mm GRANULAR B TYPE I			
	150mm PERF. SUBDRAIN (TO BE OULETTED TO EXISTING AND PROPOSED STORM STRUCTURES)				

M.H. & C.B. DATA					
No	Station	O/S	Desc.	Grate	T/G Elev.
ST-1	1+207.8	RT	705.010	400.110	270.475 (S)
ST-2	1+214.6	LT	ADJUST	400.110	270.70
ST-3	1+256.1	LT	701.010	400.110	273.914 (S)
350	1+207.8	LT	ADJUST		270.485
348	1+256.1	LT	REMOVE		
309	1+256.1	RT	ADJUST	401.010B	273.93
347	1+274.1	RT	ADJUST	400.110	275.40
311	2+363.8	RT	ADJUST	400.110	274.69
SA-16	1+202.7	CL	ADJUST		270.34
SA-17	1+264.4	CL	ADJUST		274.69

(S) DENOTES 600mm SUMP
(B) DENOTES BENCHD

SEWER DATA				
No to No	Size	Type	Class	Length
ST-1 TO ST-350	300	HDPE	CSA B182.6	7.6
ST-3 TO WEST	375	CONC	65-d	2.5
ST-3 TO 309	375	HDPE	CSA B182.6	8.5



M.H. & C.B. DATA					
No	Station	O/S	Desc.	Grate	T/G Elev.
346	1+307.5	LT	RELOCATE	400.110	277.41
345	1+308.0	RT	ADJUST	400.110	277.43
SA-18	1+296.0	CL	ADJUST		276.945

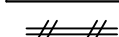
(S) DENOTES 600mm SUMP
(B) DENOTES BENCHED

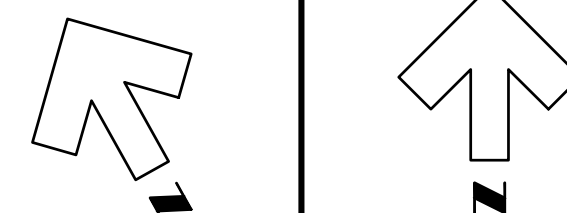
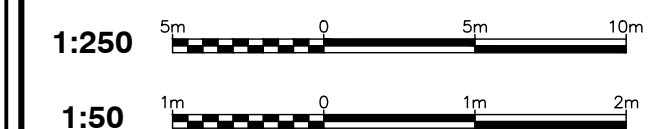
SEWER		DATA		
No to No	Size	Type	Class	Length
346-345	300	HDPE	CSA B182.6	8.5



STATION	1+290		1+300		1+310		1+320		1+330		1+340		1+350		1+360		1+370		1+380		1+390		1+400		FINISHED ASPHALT GRADE
EXISTING C GRADE	276.515		277.128		277.560		277.830		277.970		278.055		278.135		278.192		278.256		278.306		278.281		277.921		EXISTING C GRADE
FINISHED ASPHALT GRADE	276.60		277.18		277.60		277.88		278.05		278.17		278.28		278.35		278.295		278.24		278.14		MATCH		FINISHED ASPHALT GRADE

LEGEND

--- SAN or STM MH CB --- W --- --- G --- --- T --- --- H --- --- TV --- H B T H S LP o o o o o K      ##	EXISTING SEWERS, SANITARY or STORM MANHOLE and CATCHBASIN WATERMAIN,  FIRE HYDRANT GASMAIN UNDERGROUND TELEPHONE UNDERGROUND HYDRO UNDERGROUND T.V. CABLE UTILITY POLES GRUBBING REMOVE EXISTING CONC. SIDEWALK AND DRIVES PLACE CONC. SIDEWALK AND DRIVES PLACE HOT MIX ASPHALT (DRIVES 30mm HL, 3 HOT MIX MISC.) DROP CURB REMOVE EXISTING CONC. CURB
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CONSTRUCTION NORTH

NOTE

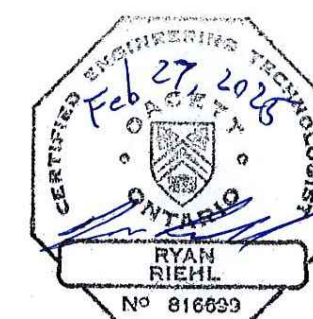
The locations of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work and agrees to be fully responsible for any damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

BENCHMARK INFORMATION

BENCHMARK INFORMATION

Design By: A.E.T.

Checked By: R.R.R.



		REVISION
No.	DATE	
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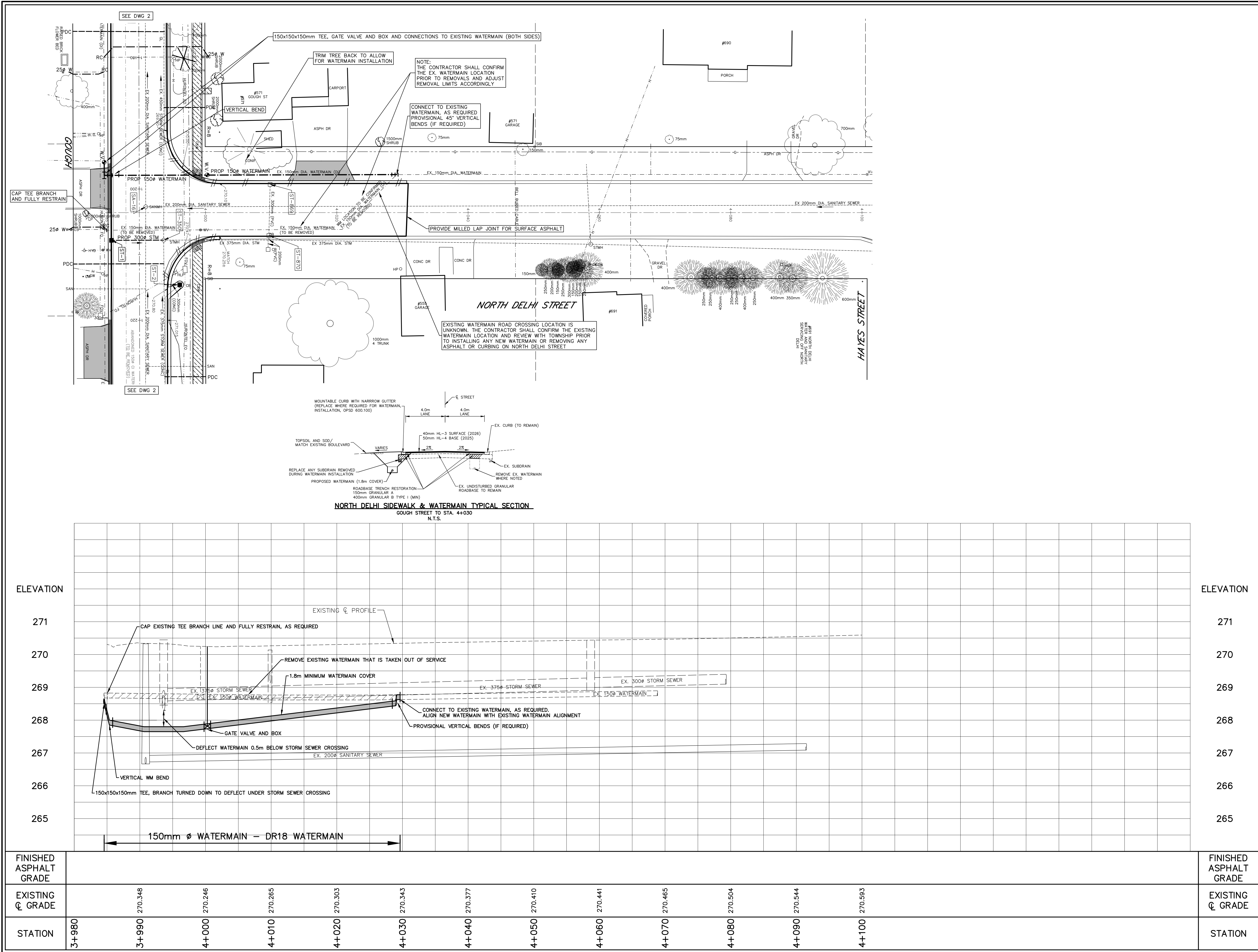


Goderich	Mount Forest	Sarnia
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**Township of
Huron-Kinloss
Gough Street Reconstruction
(Part 1)
Plan and Profile from
Sta. 1+290 to Havelock Street**

Contract No. 23037	Project No. 23037
Scale (24x36) Horizontal : 1 : 250 Vertical : 1 : 50	Drawing No. 3



LEGEND

SAN. or STM. EXISTING SEWERS, SANITARY or STORM
M. CB. MANHOLE and CATCHBASIN
W. FIRE HYDRANT
G. GASMAIN
T. UNDERGROUND TELEPHONE
H. UNDERGROUND HYDRO
TV. UNDERGROUND T.V. CABLE
H. B. T. H-S. UTILITY POLES
GRUBBING
REMOVE EXISTING CONC. SIDEWALK AND DRIVES
PLACE CONC. SIDEWALK AND DRIVES
PLACE HOT MIX ASPHALT (DRIVES 50mm HL-S HOT MIX MISC.)
DROP CURB
REMOVE EXISTING CONC. CURB

1:250 5m 0 5m 10m
1:50 1m 0 1m 2m

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BENCHMARK INFORMATION

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Design By: A.E.T. Checked By: R.R.R.

BMROSS
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Goderich Mount Forest Sarnia

Huron-Kinloss

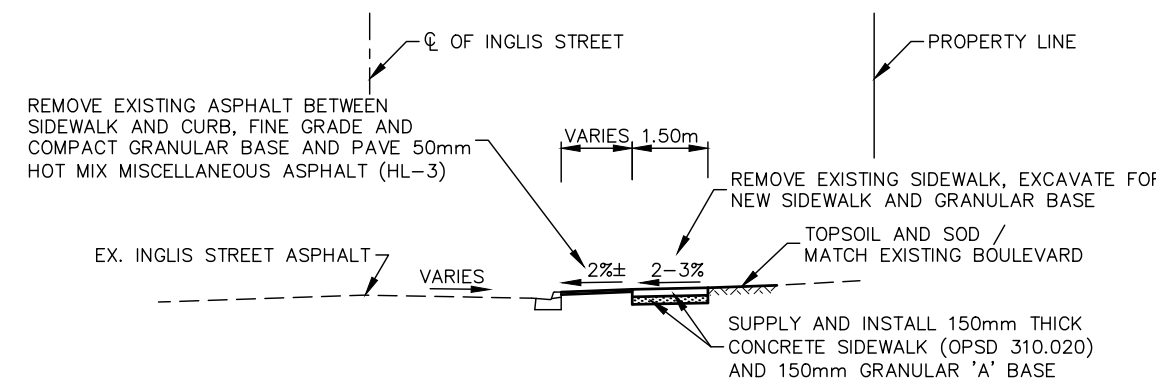
Township of Huron-Kinloss
North Delhi Street (Part 1)
Plan and Profile from Gough Street to Sta. 4+100

Contract No. 23037 **Project No. 23037**

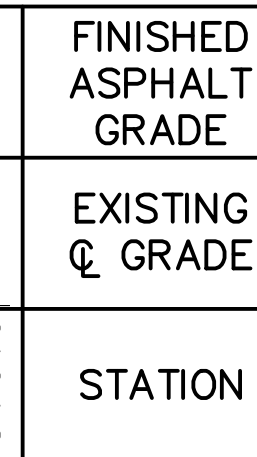
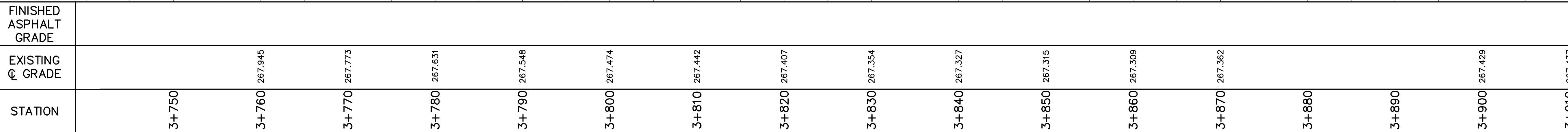
Scale (24x36)
Horizontal : 1 : 250
Vertical : 1 : 50

Drawing No. 4

1. CONTRACTOR SHALL PROVIDE FOR THE SUPPORT AND PROTECTION OF ALL UTILITIES, POLES, SEWERS, SERVICES AND MAINS DURING CONSTRUCTION.
2. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, MAINS AND SEWERS IN CONTACT WITH REMOVALS, EXCAVATION AND SIDEWALK INSTALLATION.
3. NO TRACKED EQUIPMENT IS ALLOWED ON THE ASPHALT THAT IS NOT DESIGNATED FOR REMOVAL.
4. SIDEWALK REMOVALS, REPAIRS OR REPLACEMENTS SHALL BE COORDINATE WITH THE CONTRACT ADMINISTRATOR AT THE TIME OF CONSTRUCTION.
5. SIDEWALK GRADES, SHALL MATCH EXISTING DRIVEWAYS AND PRIVATE SIDEWALKS, AS CLOSELY AS POSSIBLE TO EXISTING GRADES. MATCHES TO EXISTING ROADWAYS SHALL BE 1:2.
6. THE CONTRACTOR SHALL SAWCUT THE EXISTING ASPHALT MATCH POINTS JUST PRIOR TO ASPHALT LAYOUT AND SHALL TACK COAT VERTICAL ASPHALT SURFACES JUST PRIOR TO PAVING OPERATION.
7. THE CONTRACTOR SHALL ENSURE THERE IS POSITIVE DRAINAGE FOR ALL DISTURBED BOULEVARDS, DRIVEWAYS AND AREAS ADJACENT TO DRIVEWAYS.
8. THE CONTRACTOR SHALL MINIMIZE REMOVALS OF DRIVEWAYS AND AREAS BETWEEN THE SIDEWALK.



INGLIS SIDEWALK TYPICAL SECTION
WHEELER TO GOUGH STREET
N.T.S.



- 1:250**
- 1:50** 

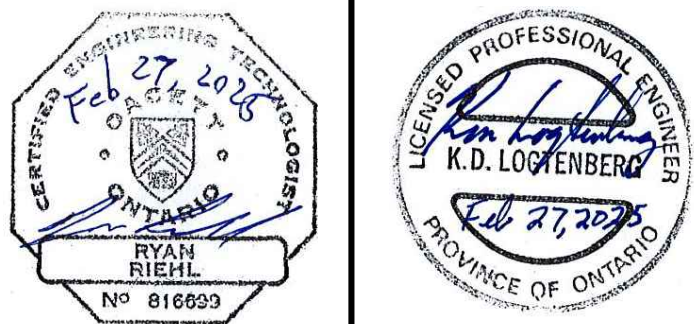


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BM Elev. 268.837m
Nail and flag in HP on the west side of Inglis Street, left of
Station 4+057±

BM Elev. 269.783m
Top nut of fire hydrant at the southeast corner of Inglis
Street and Rose Street. Right of Station 4+117±

Design By: R.R.R. Checked By: K.D.L.



No.	DATE	REVISION
1	Sept. 6, 2024	Issued for Client Comment
2	Jan. 20 2025	Issued for Client Review
3	Feb. 27 2025	Issued for Tender



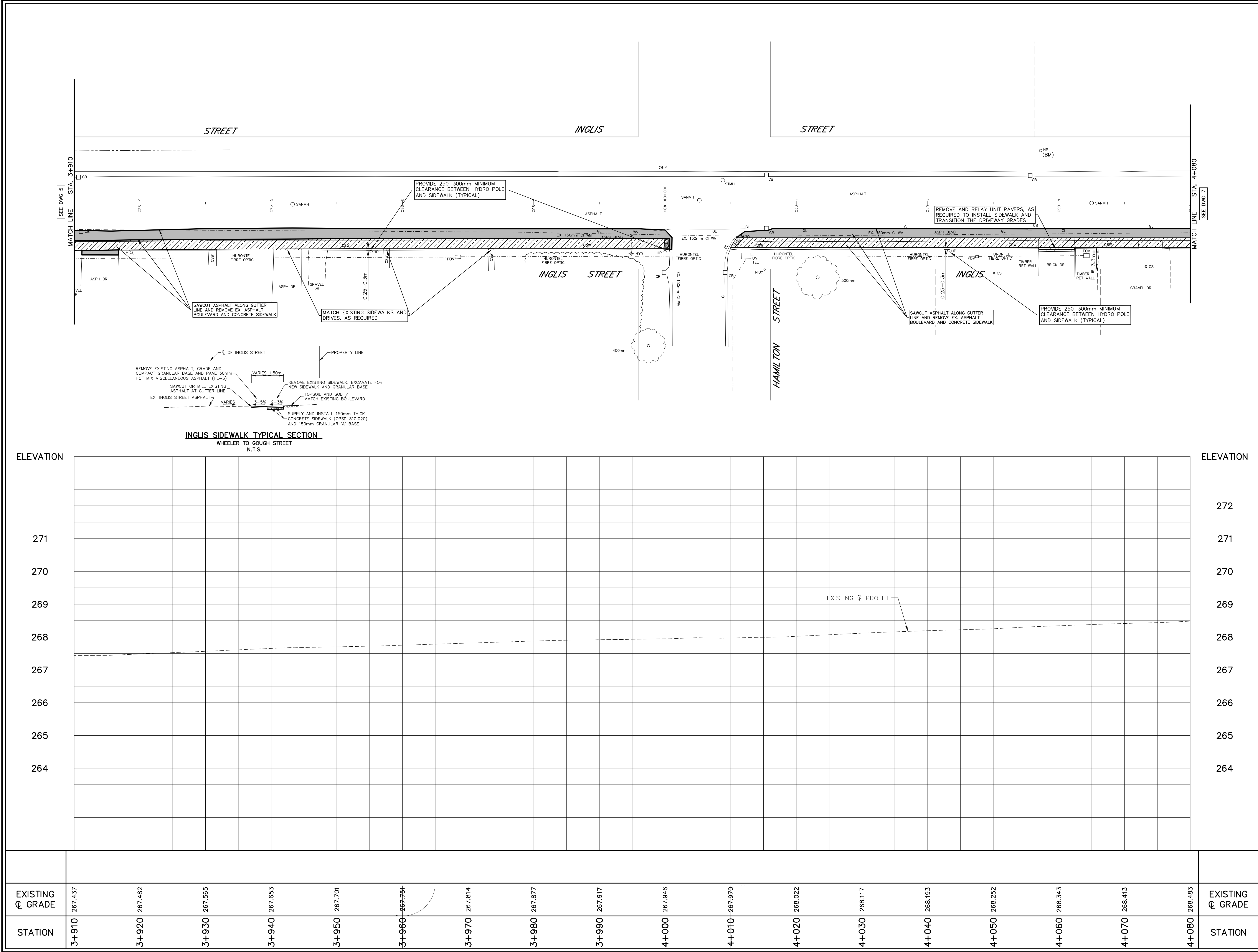
Goderich	Mount Forest	Sarnia
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**Township of
Huron-Kinloss
Inglis Street Sidewalk
(Part 2)
Plan and Profile from
Campbell Street to Sta. 3+910**

Contract No. 23037	Project No. 23037
Scale (24x36) Horizontal : 1 : 250 Vertical : 1 : 50	Drawing No. 5

Z:\2037-HK-Gough\Projects\Cont_Drawings\Production\23037-HK-Gough\2025-02-27 9:20:59 AM_ _AutoCAD PDF (General Documentation).pc3, 1:25.4



LEGEND

- SAN. or STM. (---) EXISTING SEWERS, SANITARY or STORM
- W. (---) WATERMAIN
- G. (---) GASMAIN
- T. (---) UNDERGROUND TELEPHONE
- H. (---) UNDERGROUND HYDRO
- B. (---) UNDERGROUND T.V. CABLE
- UTILITY POLES (---) UTILITY POLES
- GRUBBING (---) GRUBBING
- REMOVE EXISTING CONC. SIDEWALK AND DRIVES (---) REMOVE EXISTING CONC. SIDEWALK AND DRIVES
- PLACE CONC. SIDEWALK AND DRIVES (---) PLACE CONC. SIDEWALK AND DRIVES
- PLACE HOT MIX ASPHALT (---) PLACE HOT MIX ASPHALT
- DROP CURB (---) DROP CURB
- REMOVE EXISTING CONC. CURB (---) REMOVE EXISTING CONC. CURB

1:250

1:50

CONSTRUCTION NORTH

NOTE

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BENCHMARK INFORMATION

BM Elev. 268.837m
Nail and flag in HP on the west side of Inglis Street, left of Station 4+057±

BENCHMARK INFORMATION

BM Elev. 269.783m
Top nut of fire hydrant at the southeast corner of Inglis Street and Rose Street. Right of Station 4+117±

Design By: R.R.R. Checked By: K.D.L.

RYAN BISHOP
No. 816693

K.D. LOFFENBERG
No. 816693

No.	DATE	REVISION
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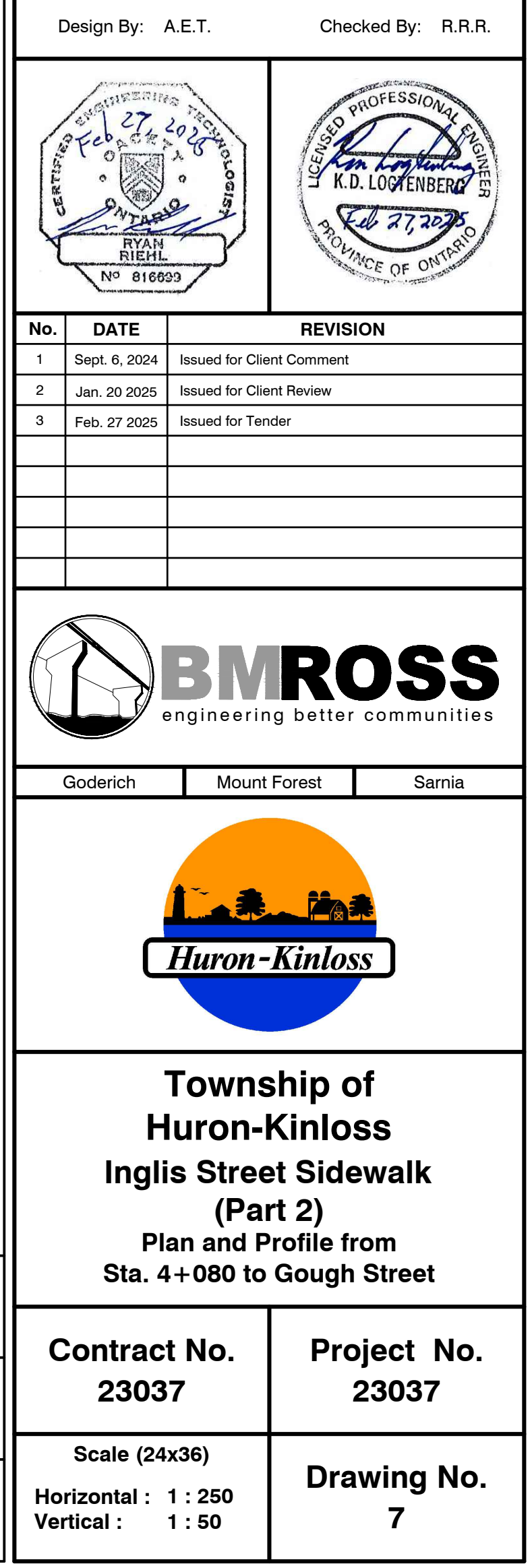
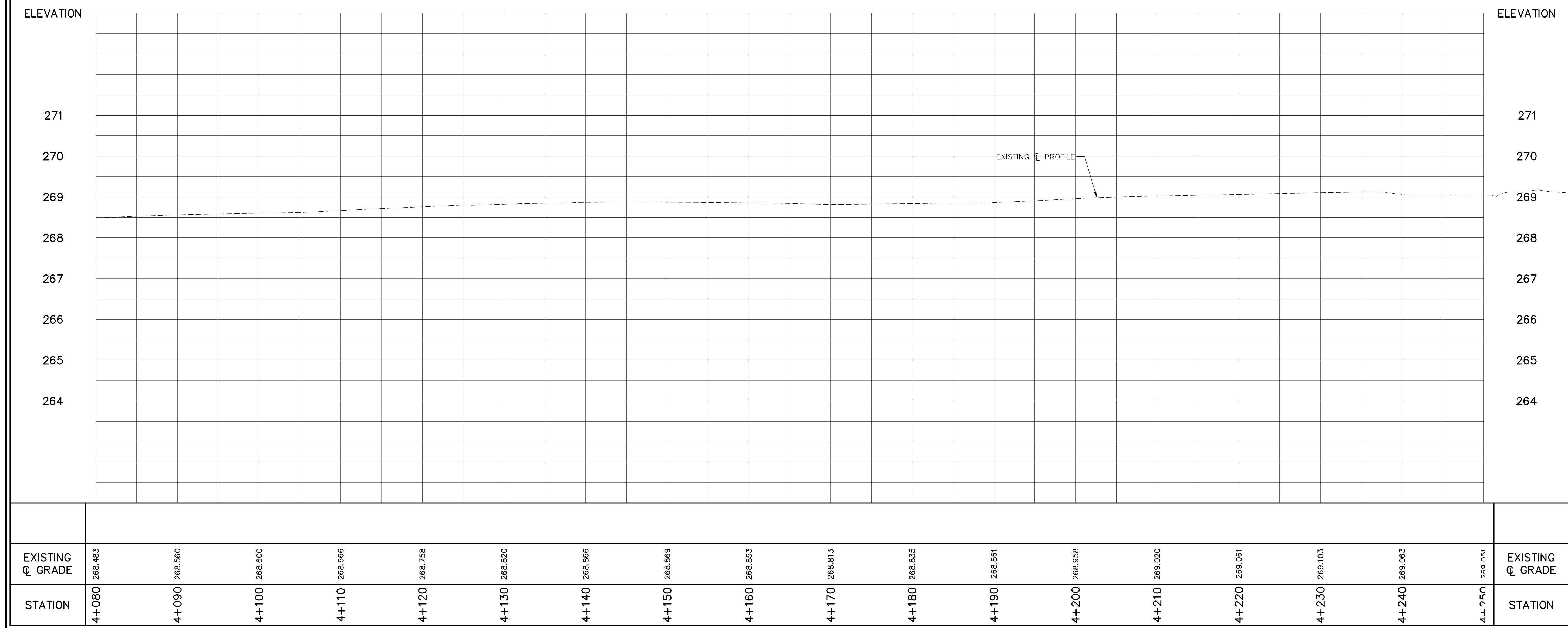
BMROSS
engineering better communities

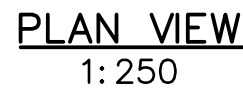
Goderich Mount Forest Sarnia

Huron-Kinloss

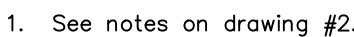
Township of Huron-Kinloss
Inglis Street Sidewalk (Part 2)
Plan and Profile from Sta. 3+910 to Sta. 4+080

Contract No. 23037	Project No. 23037
Scale (24x36) Horizontal : 1 : 250 Vertical : 1 : 50	Drawing No. 6





1. ENVIRONMENTAL PROTECTION MEASURES LISTED IN CONTRACT DOCUMENTS AND AS SPECIFIED BY THE CONSERVATION AUTHORITY AND DFO SHALL BE FOLLOWED.
2. ALL CONCRETE AND STEEL COMPONENTS REMOVED FROM THE EXISTING STRUCTURE SHALL BE REMOVED FROM THE SITE.
3. ALL IN STREAM WORK SHALL TAKE PLACE BETWEEN THE SPECIFIED TIME PERIOD AND IN ACCORDANCE WITH OTHER REQUIREMENTS OUTLINED IN THE APPROVAL FROM THE CONSERVATION AUTHORITY AND ANY OTHER GOVERNING BODY.
4. SEDIMENT AND EROSION CONTROL MEASURES, SUCH AS INSTALLATION OF SILT FENCING OR STRAW-BALE CHECK DAMS PLACED DOWN SLOPE OF ANY SILT MATERIALS STOCK PILED AND EXPOSED TOPSOIL, SHALL BE PLACED AND MAINTAINED AS DIRECTED BY THE CONTRACT ADMINISTRATOR DURING CONSTRUCTION AND UNTIL A SUITABLE CATCH OF GRASS IS ESTABLISHED.
5. DISTURBED AREAS NOT COVERED WITH RIPRAP OR A GRAVEL SURFACE SHALL BE COVERED WITH TOPSOIL AND RESTORED WITH SEED AND MULCH WHERE DIRECTED BY THE CONTRACT ADMINISTRATOR.
6. REFUELLING OF EQUIPMENT SHALL BE PERFORMED IN AN ENVIRONMENTALLY RESPONSIBLE MANNER, WHERE PRACTICAL REFUELLING SHALL BE DONE MORE THAN 30m FROM THE STREAM. ANY SIGNIFICANT SPILLS SHALL BE REPORTED TO THE MINISTRY OF ENVIRONMENT SPILLS ACTION CENTRE.
7. ANY SCAFFOLDING AND FALSE-WORK SYSTEM REQUIRED FOR THE REPAIRS SHALL HAVE A KICK PLATE AROUND THEM AND BE DESIGNED TO CATCH THE CONCRETE REMOVED AS PART OF THE REPAIRS. FOOTINGS MAY ONLY BE PLACED WITHIN THE WATERWAY DURING THE DESIGNATED TIME PERIOD OUTLINED IN THE APPROVAL FROM THE CONSERVATION AUTHORITY AND OTHER OTHER GOVERNING BODY.



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B.M. Elev. 269.585m
Brass plaque at southwest end of existing bridge.
Near Sta. 1+035.6± RT

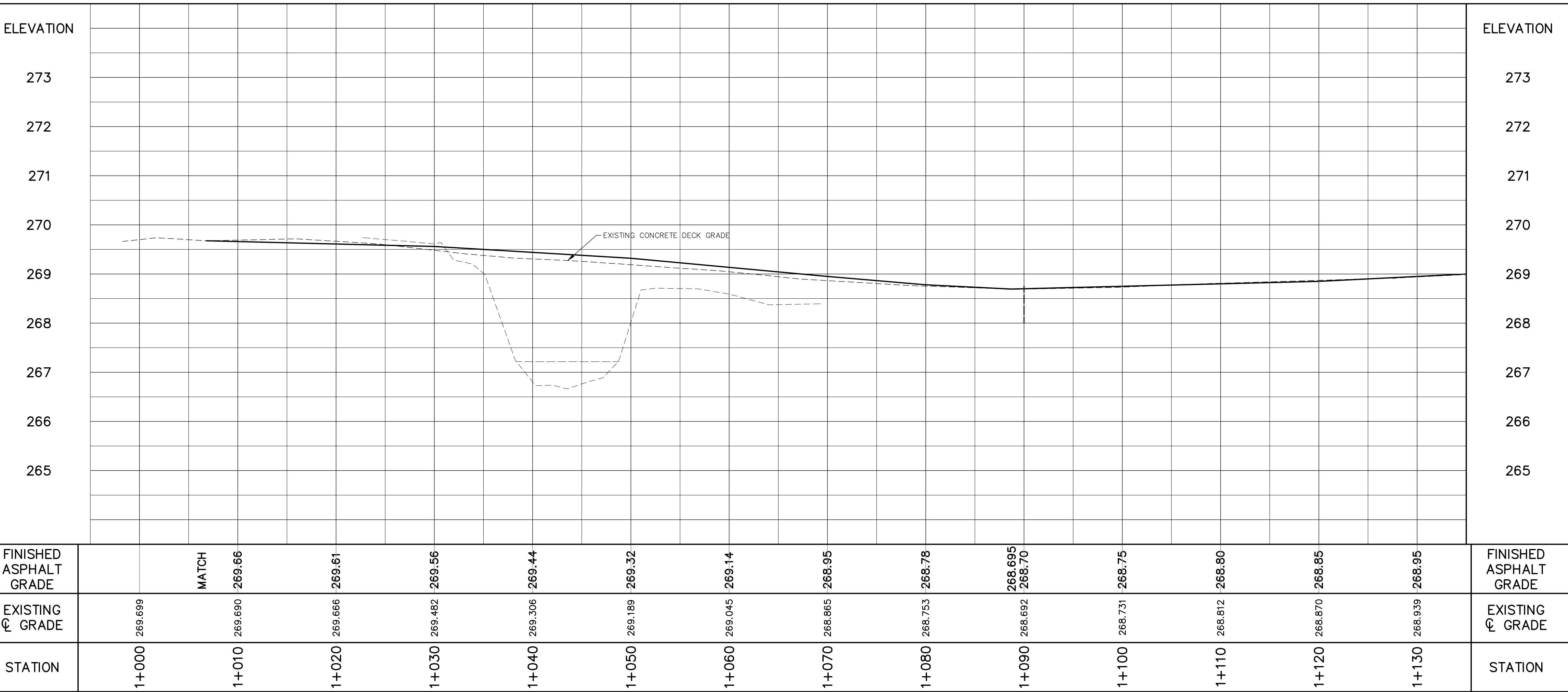
B.M. Elev. 269.410m
Brass plaque at northeast end of existing bridge.
Near Sta. 1+051.5± LT

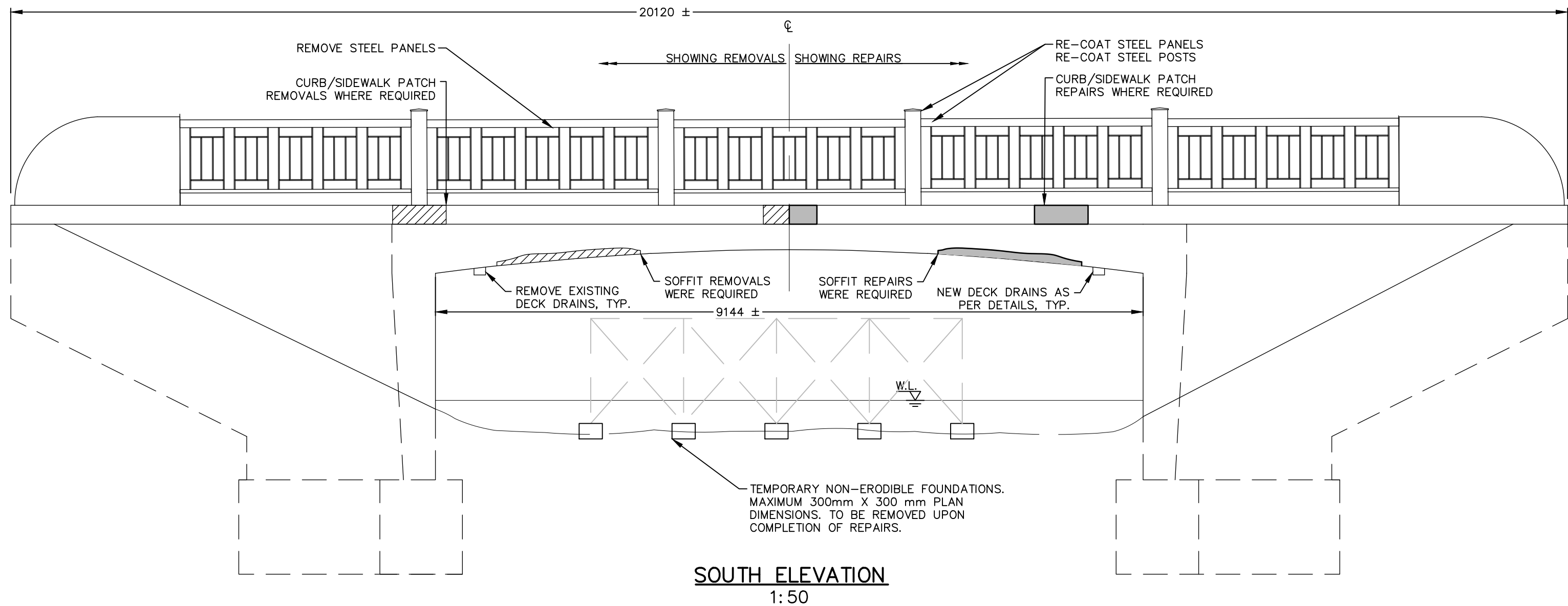
Checked By: R.J.M.



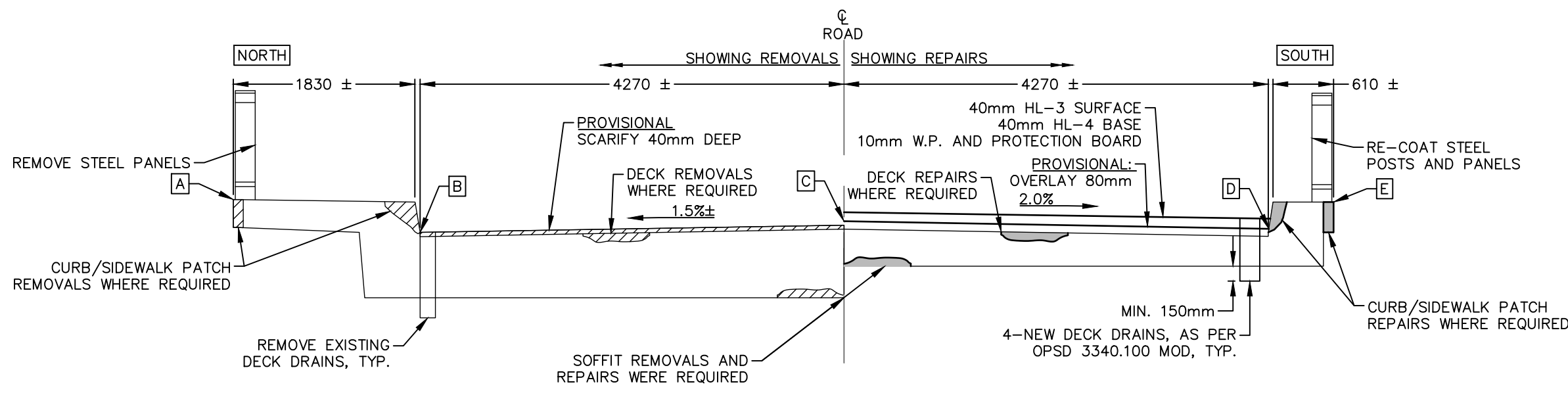
Plan and Profile Part 3

Contract No. 23037	Project No. BR174B
Scale (24x36) As Noted	Drawing No. S1

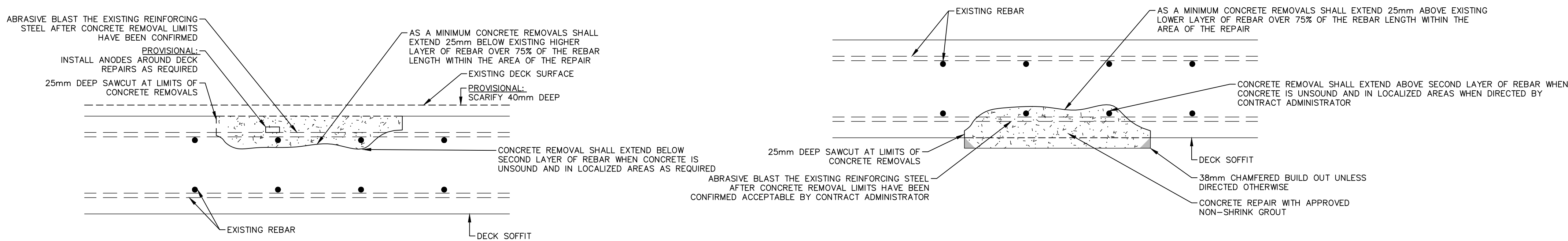




NOTE:
ACCESS MAY BE OBTAINED FROM DECK MOUNTED PLATFORMS, SHORING
SUSPENDED FROM DECK OR TEMPORARY SUPPORTS IN WATER, REFER TO
ENVIRONMENTAL NOTES REGARDING IN WATER PLACEMENT.

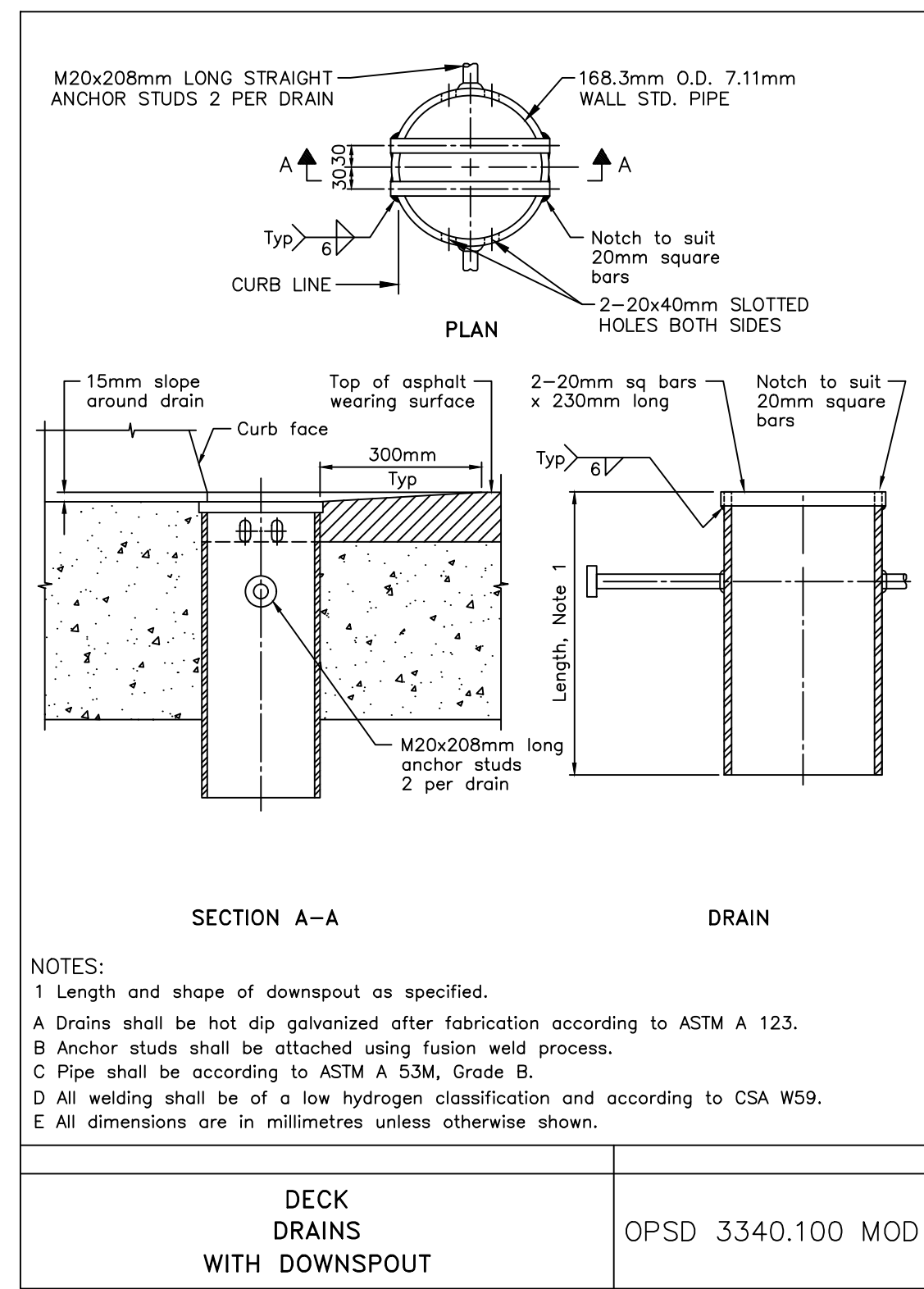


DECK SECTION
SCALE: 1:50
• CONFIRM CROSS FALL MATCHES ROAD RECONSTRUCTION

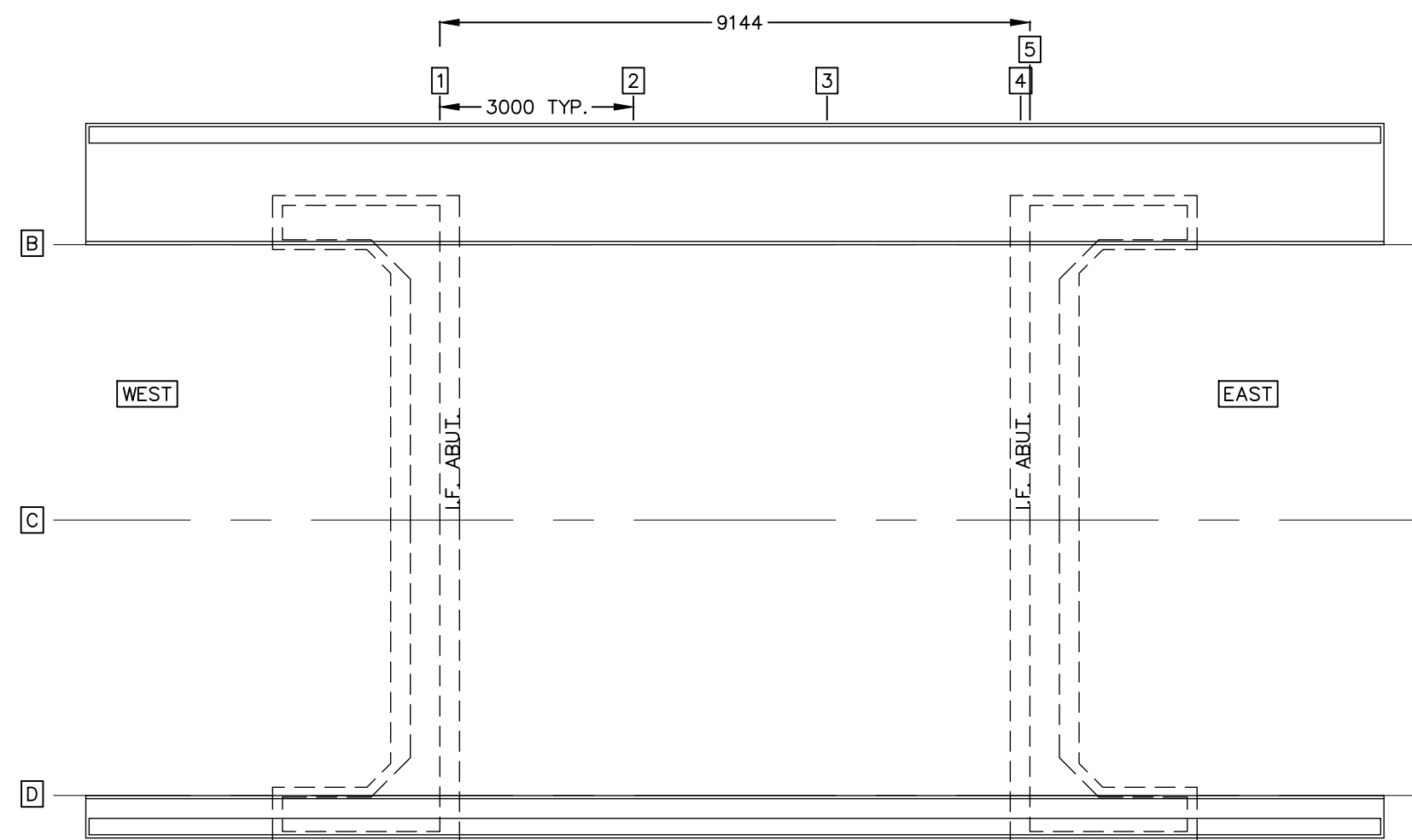


TYPICAL DECK TOP REPAIR
(TYPE A)
N.T.S.

TYPICAL DECK SOFFIT REPAIR
(TYPE B)
N.T.S.



DECK
DRAINS
WITH DOWNSPOUT
OPSD 3340.100 MOD



PLAN VIEW
SCREED GRADES
SCALE 1:100

SCREED GRADES						
LINE	DISTANCE FROM ABUT. FACE	A SCREED GRADE	B SCREED GRADE	C SCREED GRADE	D SCREED GRADE	E SCREED GRADE
WEST						
1	0m	269.270	269.356	269.270		
2	3m	269.238	269.323	269.238		
3	6m	269.206	269.291	269.206		
4	9m	269.174	269.259	269.174		
5	9.144m	269.172	269.258	269.172		
EAST						

*SCREED GRADES TO BE SET AT TIME OF CONSTRUCTION

- NOTES:
- Work to be done in accordance with the latest revision of Ontario Provincial Standard Specifications for Structures.
 - Class of concrete:
Patch Repairs and Overlay: CSA exposure class C-2 (32 MPa compressive strength), nominal 12mm aggregate.
Soffit Patch Repairs: Self consolidated concrete or non-shrink grout mix with a minimum 35 MPa compressive strength at 28 days, placed by form and pump method.
Approval of the Contract Administrator's Engineer is required for all mix designs and admixtures.
 - Concrete removal areas shall be delineated by a 25mm deep saw cut, unless otherwise approved. Concrete removals shall be made by saw and chipping hammers. Removals shall be in accordance with OPSD 926.
 - Concrete patch repairs shall be wet cured for a minimum of 96 hours by leaving forms in place or applying wet burlap and vapour barrier.
 - Reinforcing steel shall be grade 400 deformed bars. Bars shall be pre-bent at suppliers plant.
 - Chamfer all exposed corners 25mm.
 - Cover to reinforcing steel 70mm ± 20mm except where noted.
 - Lap splice information (unless noted otherwise)
Uncoated: 15M - 550mm; 20M - 690mm
 - Materials to be as identified on M.T.O. Designated Sources List. Epoxy grout shall be a 2-part epoxy.
 - Use a sand-cement slurry as a bonding agent for all deck patches.
 - All connecting hardware shall be grade A325, hot dip galvanized.
 - Waterproofing and protection board shall be done in accordance with OPSD 914 and OPSD 3370.100.
 - Provisional anodes are to be Galvashield type XP4 or accepted equivalent. Anodes are to be installed as per the manufacturers recommendations.

1:100
1:50

Design By: J.P.J. Checked By: R.J.M.



No.	DATE	REVISION
1.	Oct. 22, 2024	Issued for Approvals
2.	Feb. 27, 2025	Issued for Tender



Goderich Mount Forest Sarnia



**Township of
Huron-Kinloss**
Gough Street Bridge Repairs
**Bridge Details
Part 3**

**Contract No.
23037**
**Scale (24x36)
As Noted**

**Project No.
BR174B**
**Drawing No.
S2**