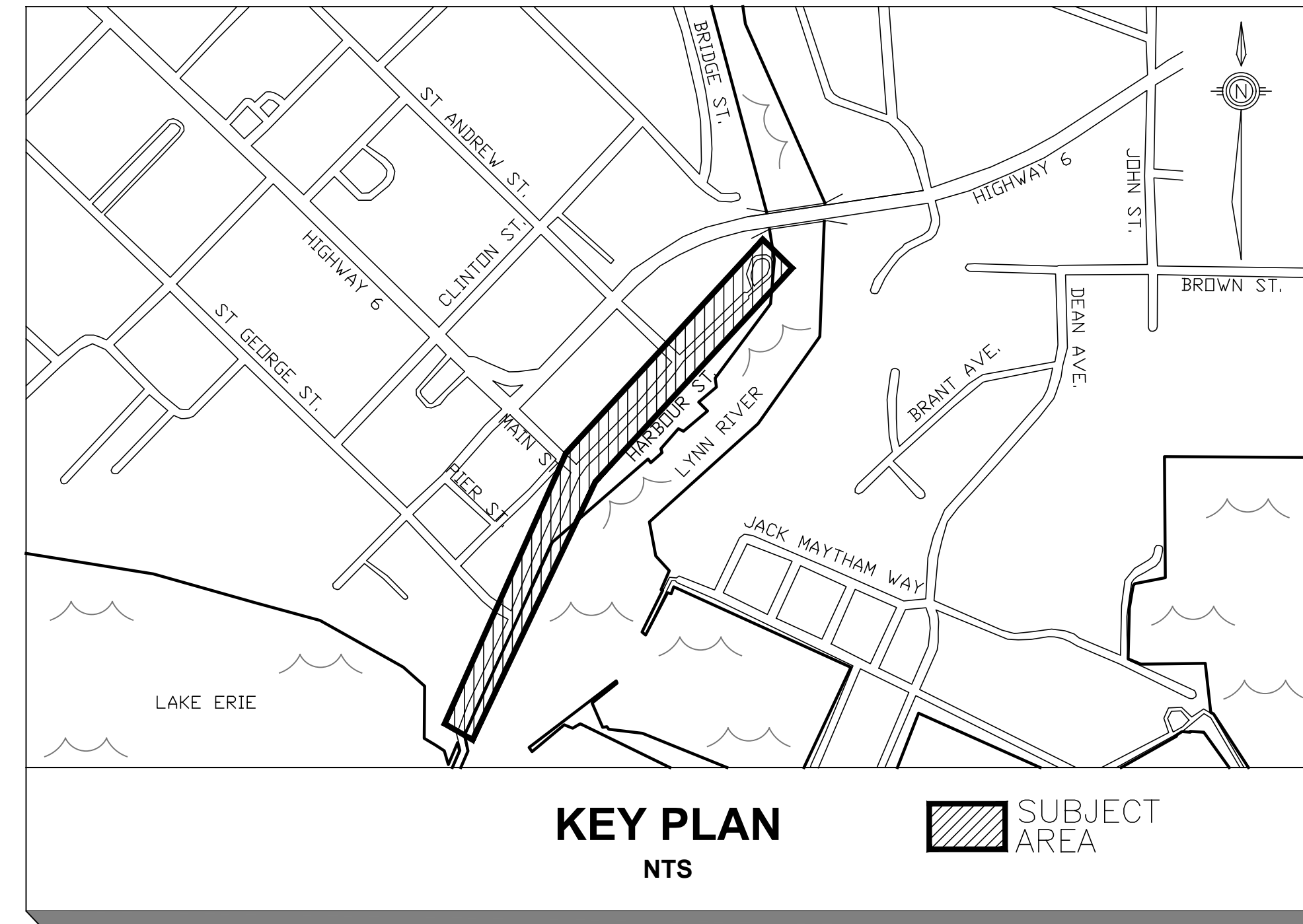


NORFOLK COUNTY

EIS-ENG-24-36

HARBOUR STREET RECONSTRUCTION PROJECT

DRAWING LIST		
DRAWING	SCALE	DESCRIPTION
N22007 N	N.T.S.	NOTES SHEET
N22007 PP1	H1:250 V1:50	PLAN AND PROFILE – HARBOUR ST STA 0+000 TO 0+150
N22007 PP2	H1:250 V1:50	PLAN AND PROFILE – HARBOUR ST STA 0+140 TO 0+300
N22007 PP3	H1:250 V1:50	PLAN AND PROFILE – HARBOUR ST STA 0+270 TO 0+415
N22007 PP4	H1:250 V1:50	PLAN AND PROFILE – HARBOUR ST STA 0+415 TO 0+505
N22007 REM1	1:250	REMOVALS PLAN 1
N22007 REM2	1:250	REMOVALS PLAN 2
N22007 GP1	1:250	GRADING PLAN 1
N22007 GP2	1:250	GRADING PLAN 2
N22007 GP3	1:250	GRADING PLAN 3
N22007 GP4	1:250	GRADING PLAN 4
N22007 D	N.T.S.	DETAIL SHEET



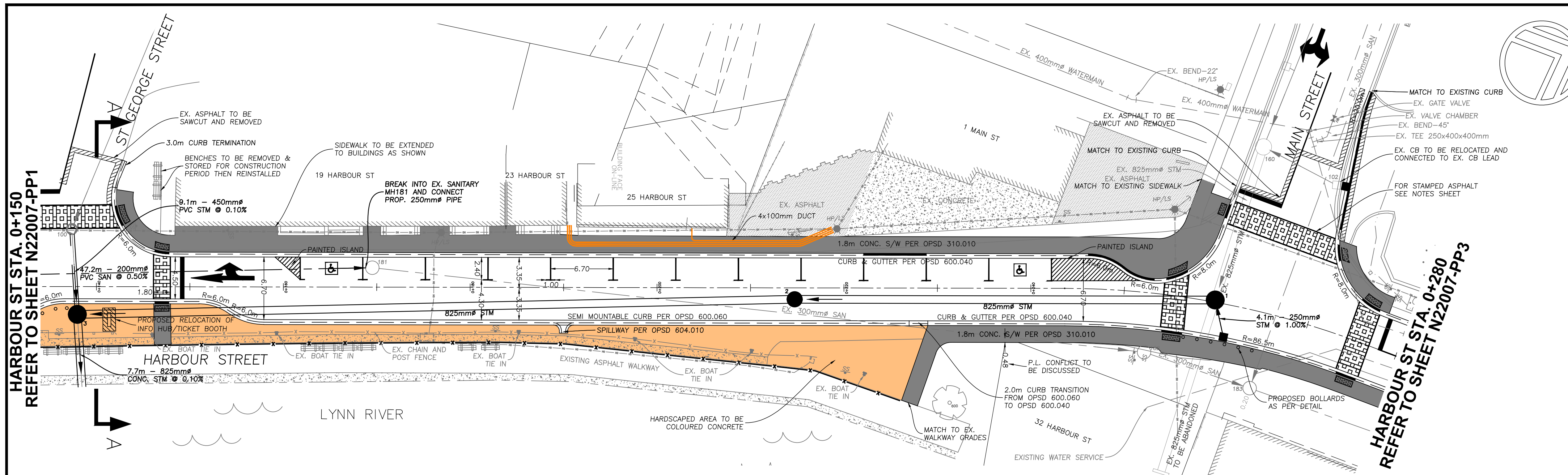
ENGINEERS:


 2255 BARTON ST. E, UNIT B
 HAMILTON, ON, L8H 7T4
 TEL. 905.578.1001
 EMAIL: ENGINEERING@METROCON.CA
METROPOLITAN
 CONSULTING INC.

MUNICIPALITY:


 Ontario's Garden

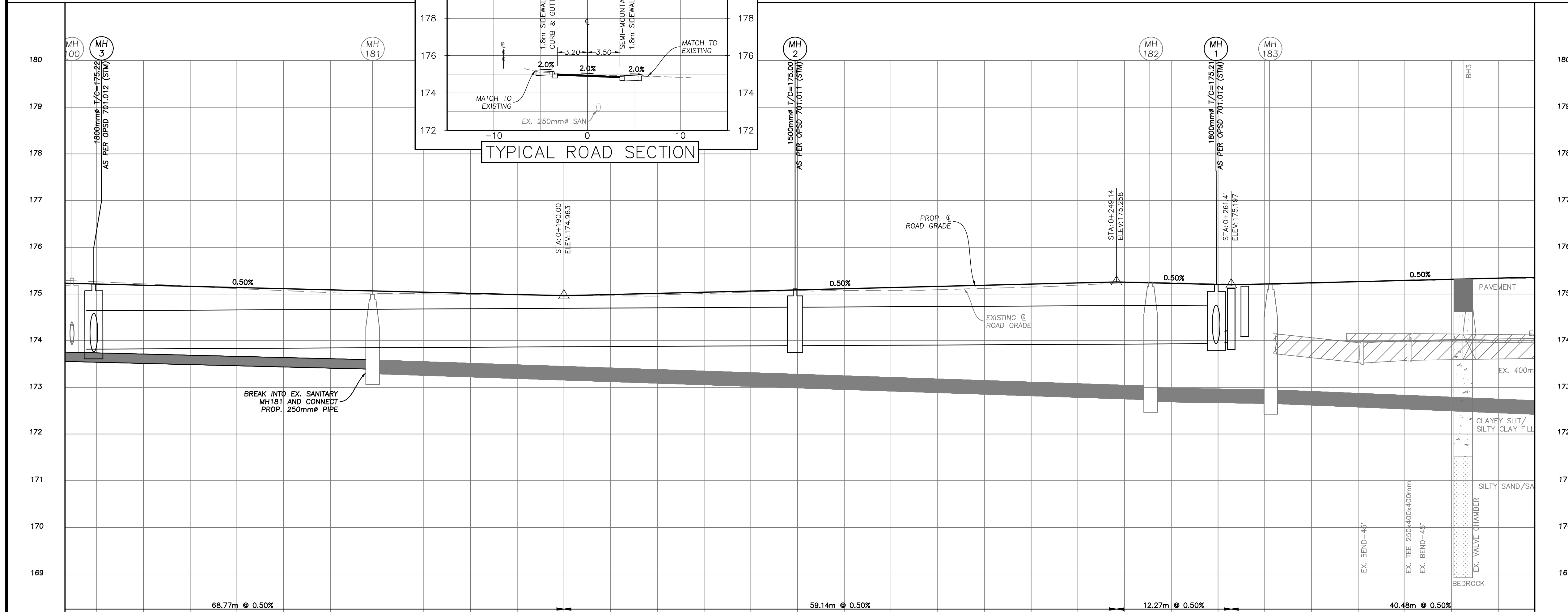
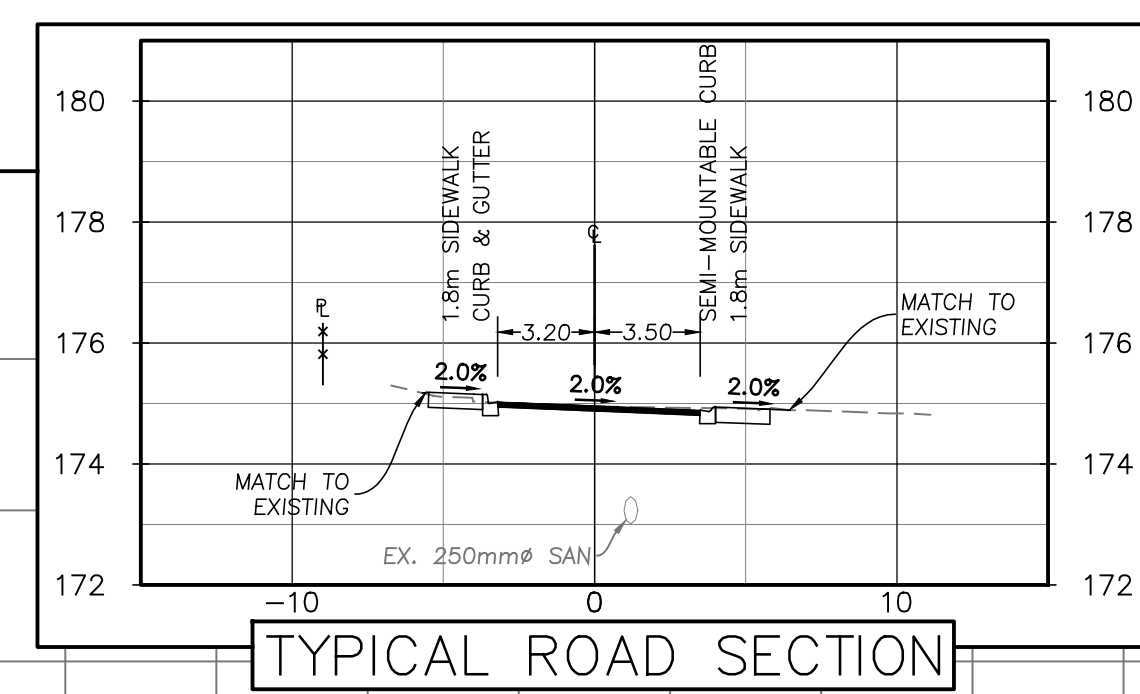
**PORT DOVER HARBOUR STREET
 90% SUBMISSION**



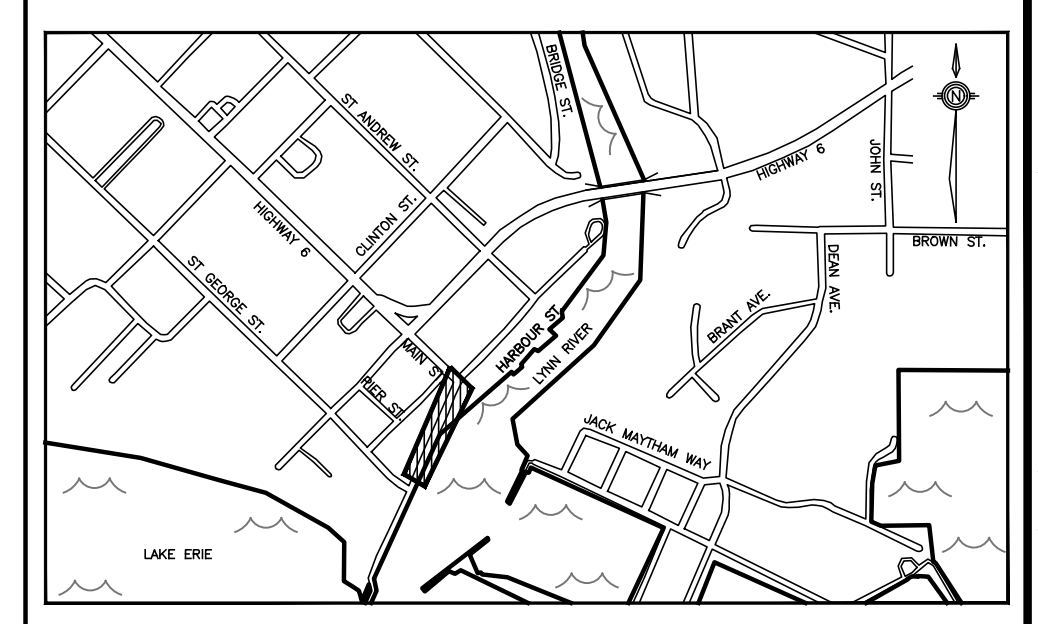
HARBOUR STREET 0+140 TO 0+300

NOTE: CROSSWALKS ARE TO BE EITHER STAMPED ASPHALT AND PAINTED, OR INTERCONNECTED SURFACE APPLIED PREFORMED THERMOPLASTIC.

NOTE: TRENCH DEWATERING MAY BE REQUIRED DURING PIPE INSULATION



CHAINAGE	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	CHAINAGE
SANITARY SEWER INVERTS	47.2m-200mm# PVC SAN @ 0.50%			83.1m-300mm# CONC SAN. @ 0.67%				95.8m-300mm# CONC SAN. @ 0.83%	
STORM SEWER INVERTS	76.8m-825mm# CONC. STM @ 0.10% TYPE 100-D CSA A257.2 CLASS 'B' BEDDING COMPLETE WITH INSULATION								
PROPOSED ELEV.	175.26 (175.21)	175.07 (175.11)	S 173.37 (173.29)	174.99 (175.01)	174.96 (175.01)	175.07 (175.11)	175.22 (175.20)	175.30 (175.29)	PROPOSED ELEV.



- KEY PLAN: N.T.S.**
- SUBJECT AREA**
- EXISTING SANITARY MANHOLE
 - EXISTING CATCHBASIN
 - ⊗ EXISTING VALVE
 - ⊕ EXISTING HYDRANT
 - ⊙ EXISTING CURB BOX
 - BH1 ⊕ BORE HOLE LOCATION
 - TP1 ⊕ TEST PIT LOCATION
 - ▣ PROPOSED TACTILE PLATE
 - ▤ PROPOSED CROSSWALK STAMPED ASPHALT
 - 102A ⊙ PROPOSED SANITARY MANHOLE
 - 100 ⊙ PROPOSED STORM MANHOLE
 - PROPOSED CATCHBASIN
 - ▣ PROPOSED DOUBLE CATCHBASIN
 - ⊗ PROPOSED HYDRANT
 - ⊕ PROPOSED VALVE
 - ▣ PROPOSED MAIL BOX
 - ▣ PROPOSED HYDRO TRANSFORMER
 - ▣ PROPOSED REDUCER
 - ⊕ PROPOSED LIGHT STANDARD POLE LOCATION
 - EXISTING SERVICES
 - PROPOSED STORM SEWER
 - PROPOSED SANITARY SEWER
 - PROPOSED WATERMAIN
 - PROPOSED STORM AND SANITARY SERVICE
 - PROPOSED WATER SERVICE
 - PHASE BOUNDARY
 - SECURITY FENCE
 - CHAIN LINK FENCE
 - EXISTING CHAIN LINK FENCE

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BENCHMARK
 DATUM: C6VD2013
 ELEVATION: 181.779m

LOCATION DISCRETION:
 PORT DOVER HIGHWAY No. 6 LIFT BRIDGE OVER LYNN RIVER, 0.8km EAST OF POST OFFICE, TABLE IN SOUTH FACE OF CONCRETE CURB AT SOUTH SIDE OF BRIDGE, 43cm FROM EAST END, 30cm BELOW TOP, NEAR ROAD LEVEL.

DATE			
DESIGN	WG	CHECKED	KGH
DRAWN	KJG	CHECKED	TF
SCALE	0 5 10 15 20		
DATE	SEPT. 2022		STAMP

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 HAMILTON, ON, L8H 7T4
 TEL. 905.578.1001
METROPOLITAN CONSULTING INC. EMAIL: ENGINEERING@METROCON.CA

Norfolk County, Ontario, Canada

PORT DOVER HARBOUR STREET

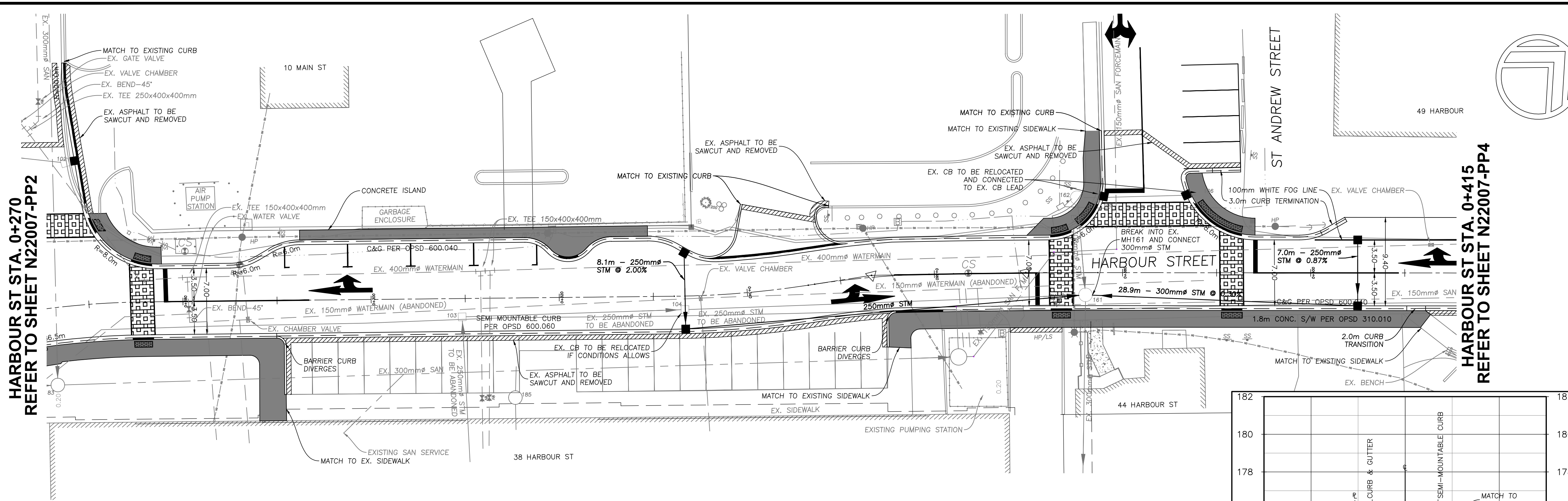
PLAN AND PROFILE STA 0+140 - 0+300

MUNICIPAL FILE No. **EIS-ENG-22-75** PROJECT: **N22007**

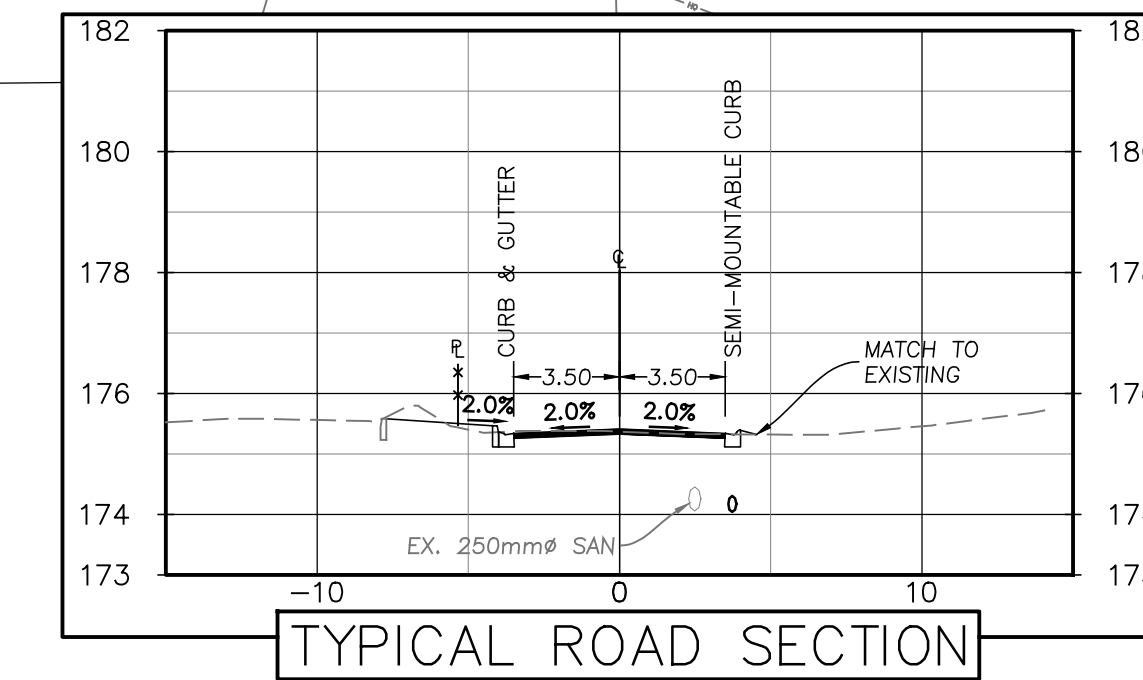
CONTRACT No. **EIS-ENG-24-36** SHEET: **PP2**

HARBOUR ST STA. 0+270
REFER TO SHEET N22007-PP2

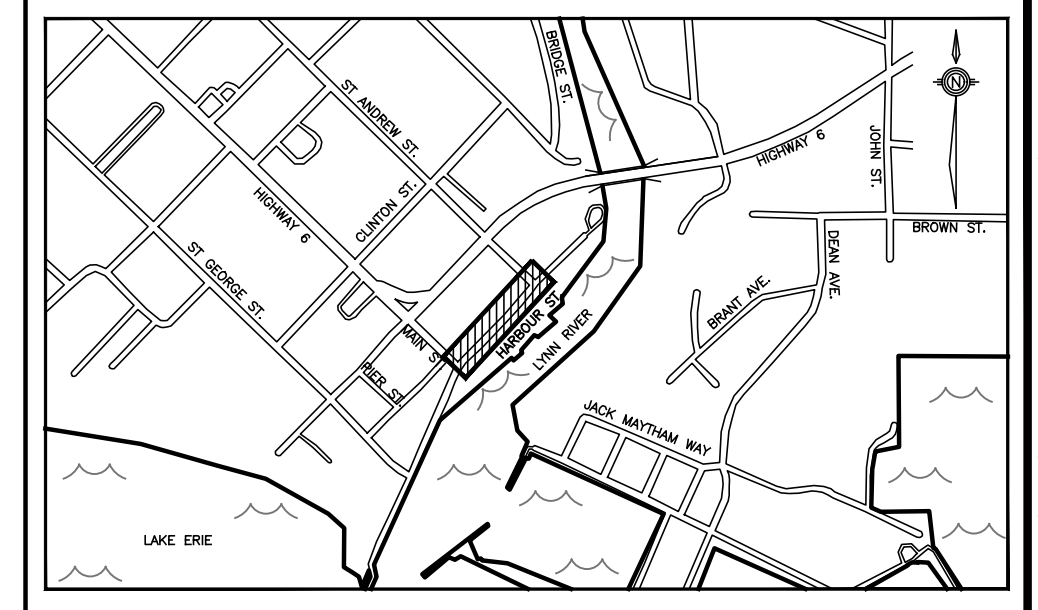
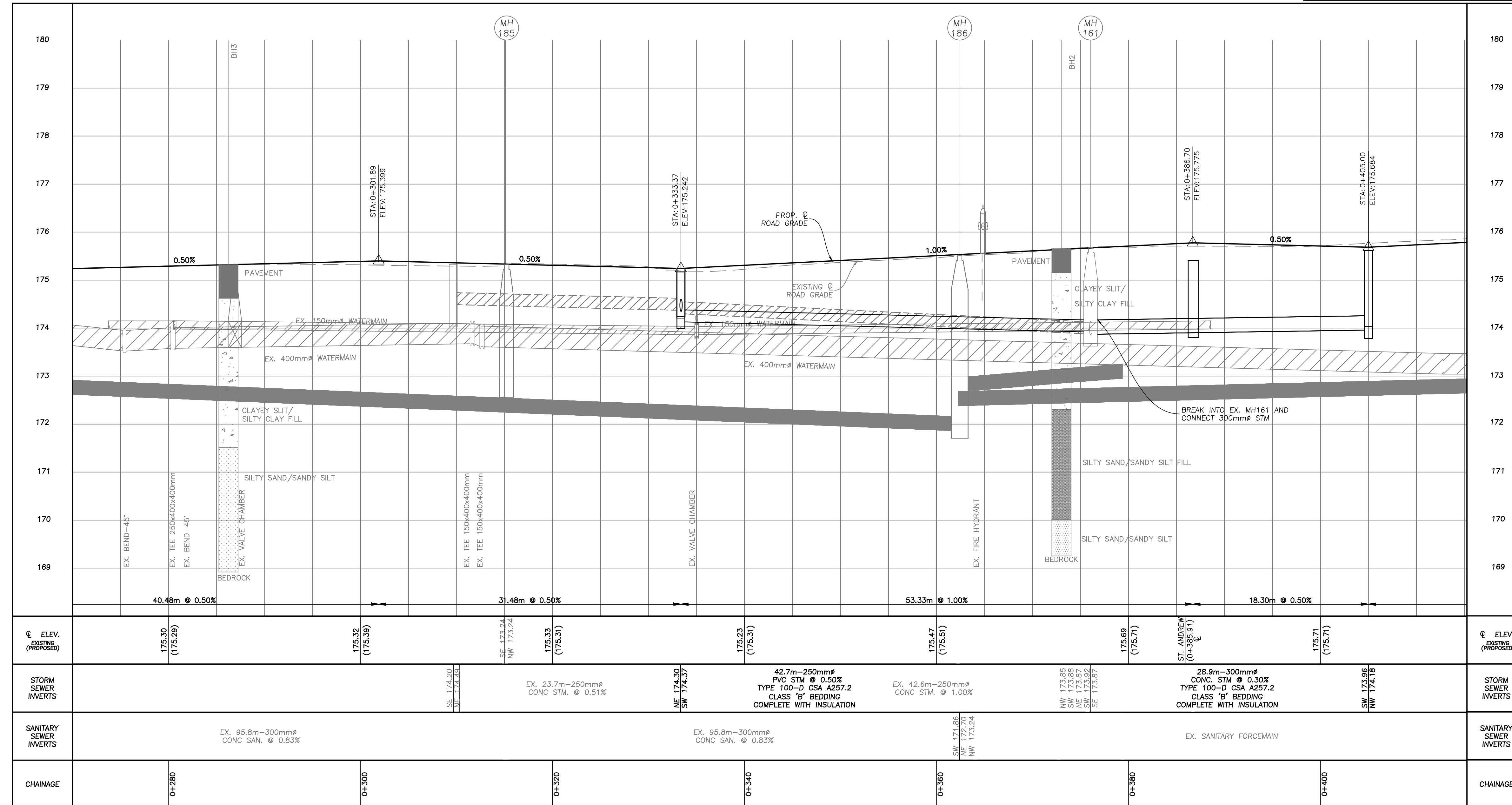
HARBOUR ST STA. 0+415
REFER TO SHEET N22007-PP4



HARBOUR STREET 0+270 TO 0+415



TYPICAL ROAD SECTION



KEY PLAN: N.T.S.

SUBJECT AREA

- EXISTING SANITARY MANHOLE
- EXISTING CATCHBASIN
- EXISTING HYDRANT
- EXISTING VALVE
- PROPOSED CURB BOX
- BH1 BORE HOLE LOCATION
- TP1 TEST PIT LOCATION
- PROPOSED TACTILE PLATE
- PROPOSED CROSSWALK STAMPED ASPHALT
- EXISTING SANITARY MANHOLE
- PROPOSED STORM MANHOLE
- PROPOSED CATCHBASIN
- PROPOSED DOUBLE CATCHBASIN
- PROPOSED HYDRANT
- PROPOSED VALVE
- PROPOSED MAIL BOX
- PROPOSED HYDRO TRANSFORMER
- PROPOSED REDUCER
- PROPOSED LIGHT STANDARD POLE LOCATION
- EXISTING SERVICES
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN
- PROPOSED STORM AND SANITARY SERVICE
- PROPOSED WATER SERVICE
- PHASE BOUNDARY
- SECURITY FENCE
- CHAIN LINK FENCE
- EXISTING CHAIN LINK FENCE

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2 Mar. 23	AFK	60% SUBMISSION
1 Sept. 22	KJG	30% SUBMISSION

DATE: SEPT. 2022

DESIGN	WG	CHECKED	KGH
DRAWN	KJG	CHECKED	TF

SCALE: 0 5 10 15 20
VERT. 1:250
HORIZ. 1:500

2255 BARTON ST. E, UNIT B
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Norfolk County, Ontario, Canada

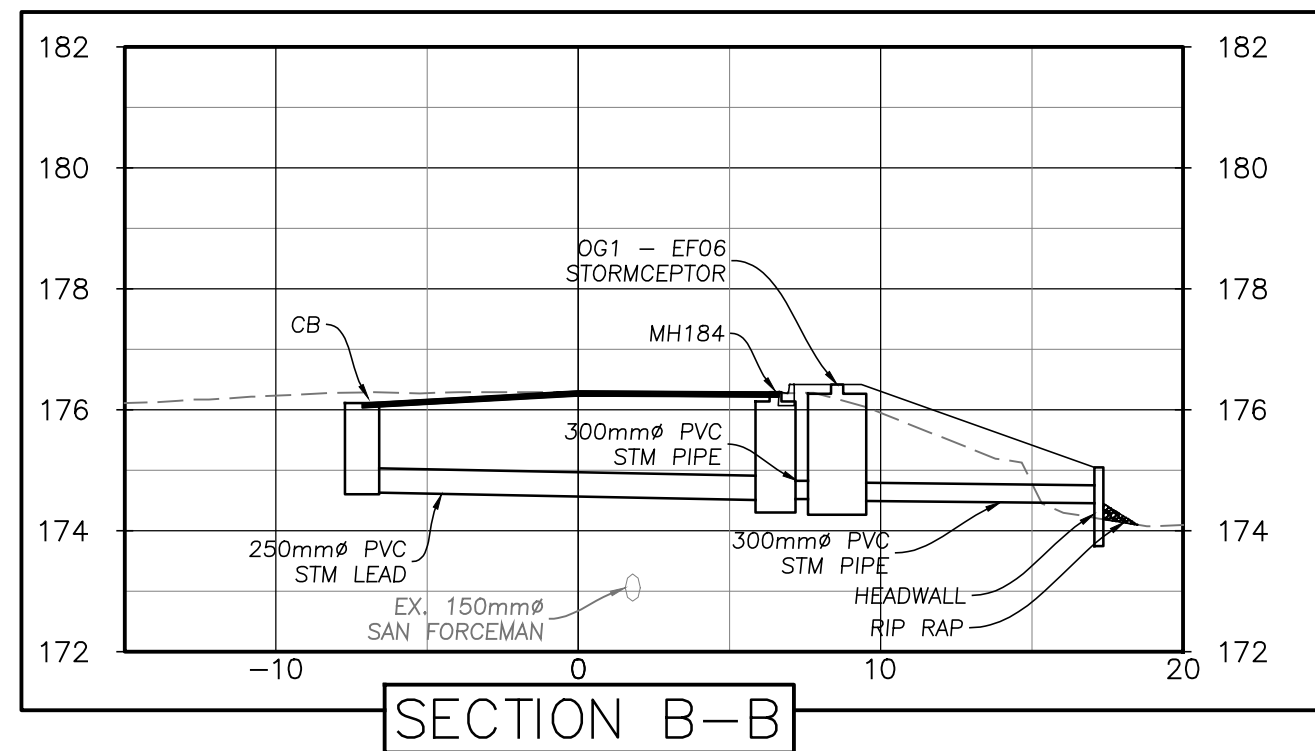
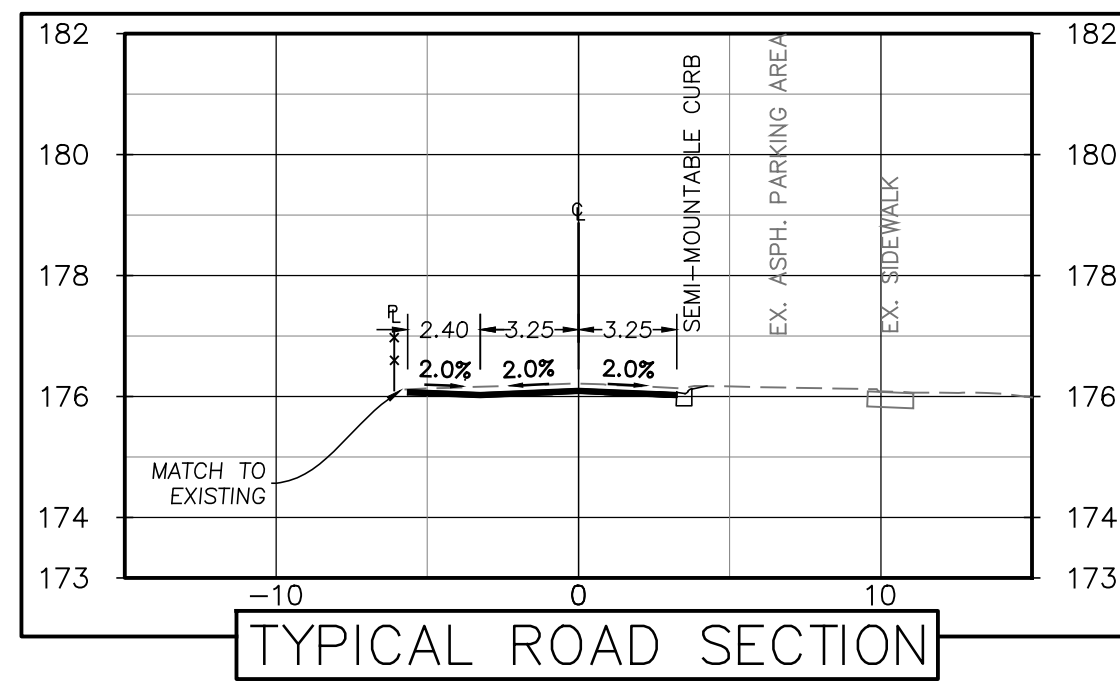
PORT DOVER HARBOUR STREET

PLAN AND PROFILE STA 0+270 - 0+415

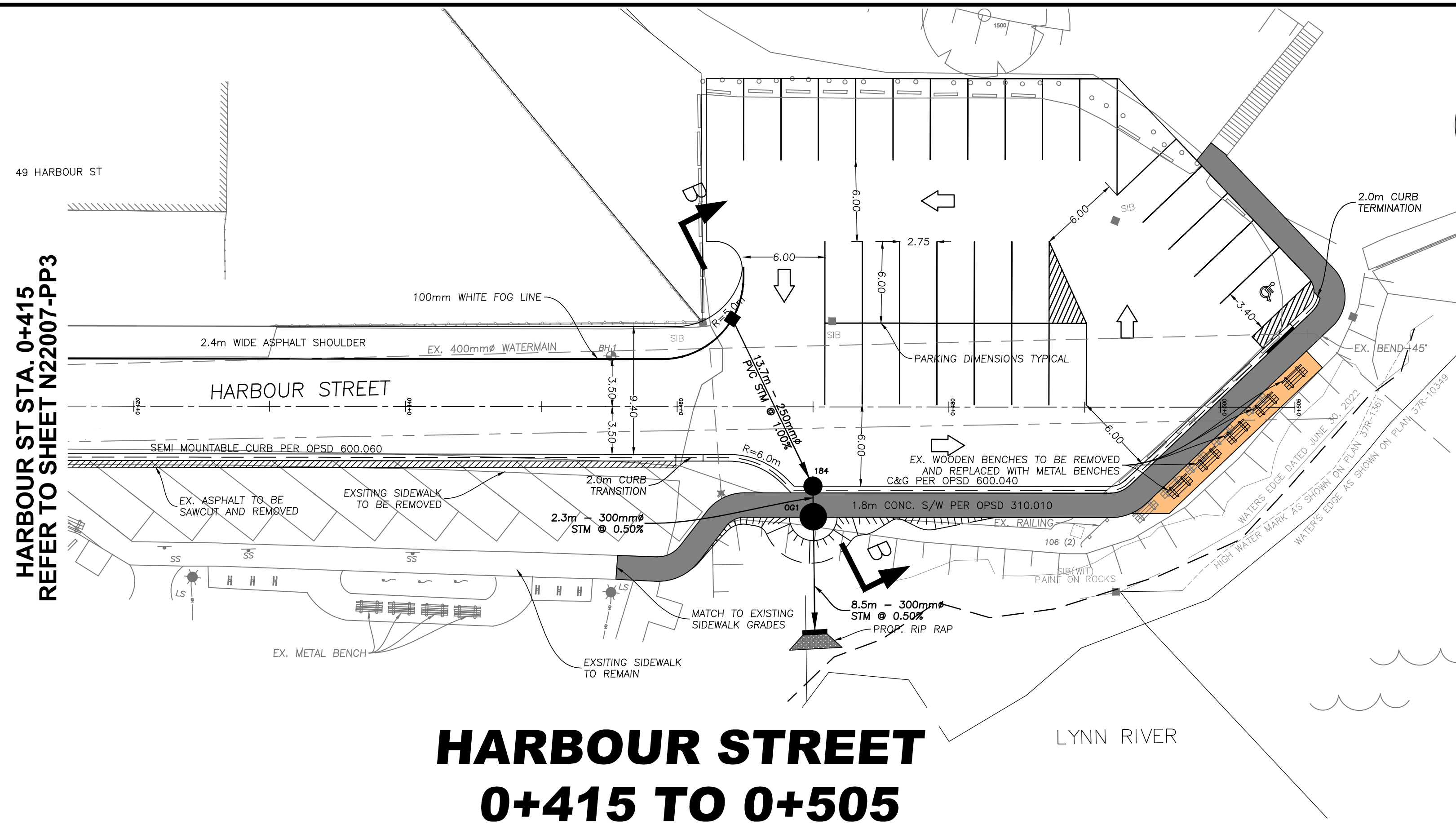
MUNICIPAL FILE No. **EIS-ENG-22-75** PROJECT: **N22007**

CONTRACT No. **EIS-ENG-24-36** SHEET: **PP3**

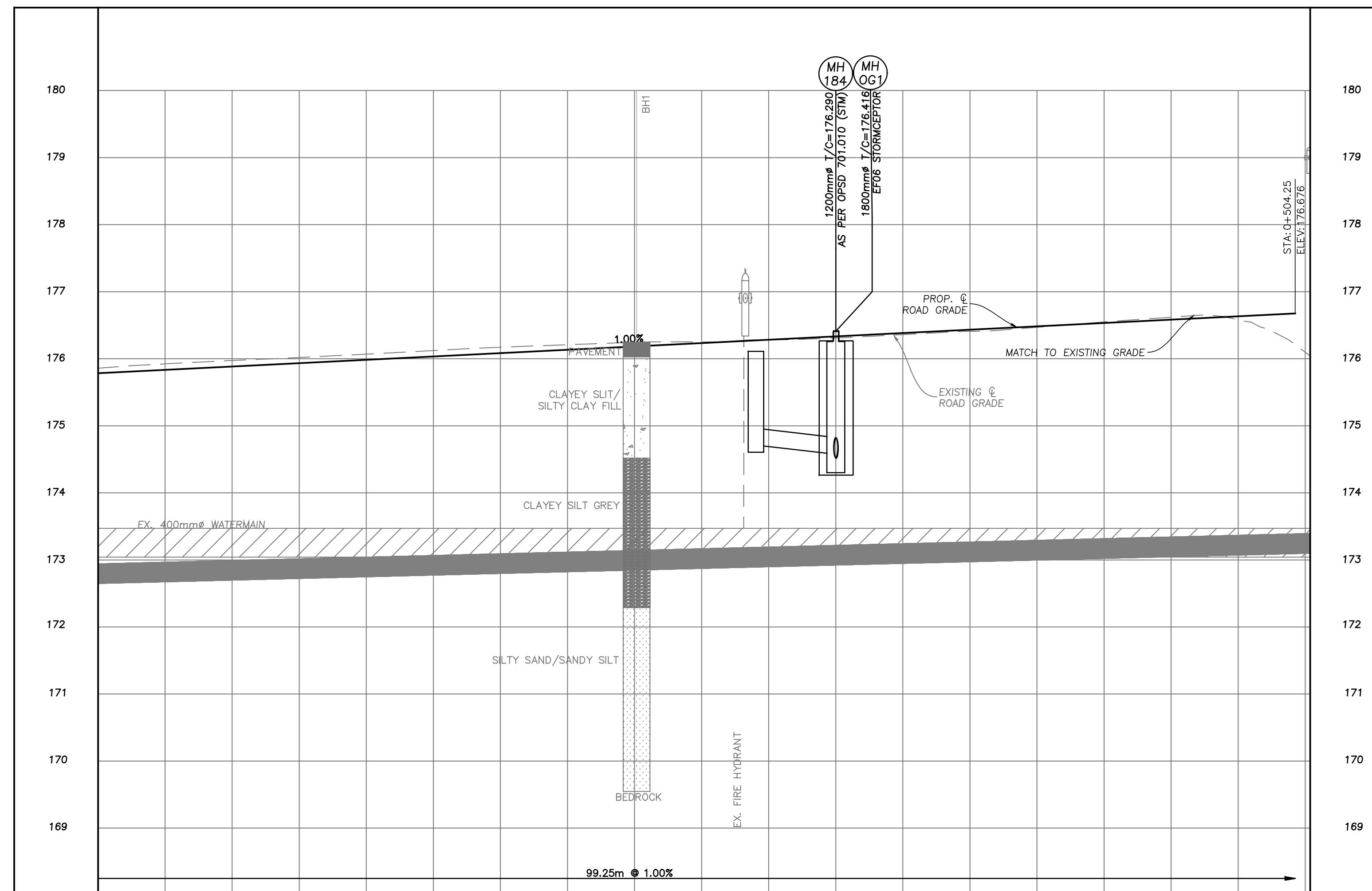
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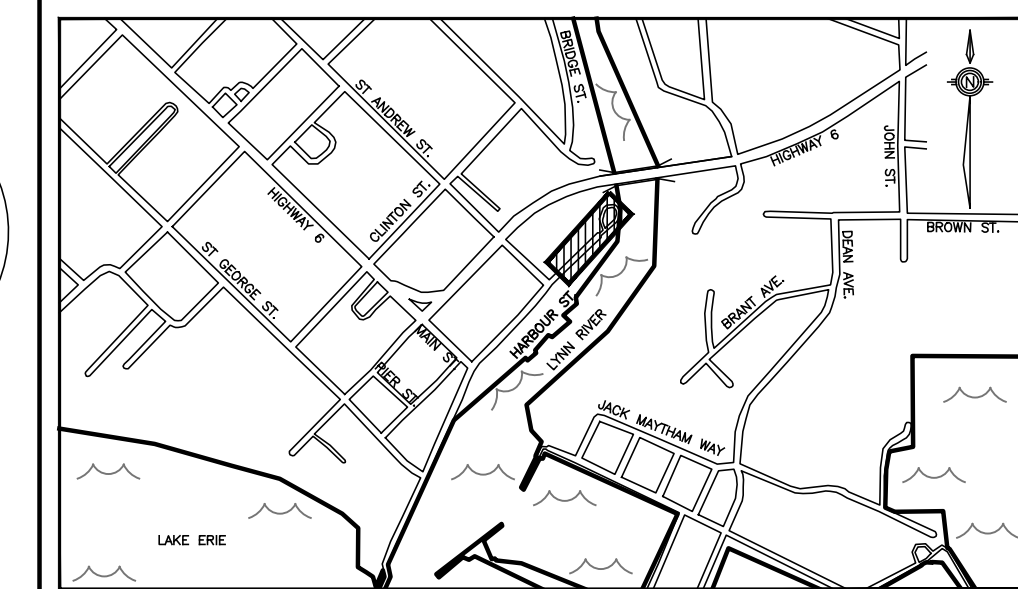
HARBOUR ST STA. 0+415
REFER TO SHEET N22007-PP3



HARBOUR STREET 0+415 TO 0+505



EL. ELEV. EXISTING (PROPOSED)	178.92 (178.92)	176.12 (176.03)	176.25 (176.23)	176.41 (176.43)	176.58 (176.58)	EL. ELEV. EXISTING (PROPOSED)
STORM SEWER INVERTS			E. 174.71	SE. 174.49 NW 174.51		STORM SEWER INVERTS
SANITARY SEWER INVERTS	EX. SANITARY FORCEMAIN					SANITARY SEWER INVERTS
CHAINAGE	0+420	0+440	0+460	0+480	0+500	CHAINAGE



KEY PLAN: N.T.S.

SUBJECT AREA

- EXISTING SANITARY MANHOLE
- EXISTING CATCHBASIN
- EXISTING HYDRANT
- EXISTING VALVE
- PROPOSED CURB BOX
- BH1 BORE HOLE LOCATION
- TP1 TEST PIT LOCATION
- PROPOSED TACTILE PLATE
- PROPOSED CROSSWALK STAMPED ASPHALT
- 102A PROPOSED SANITARY MANHOLE
- 100 PROPOSED STORM MANHOLE
- PROPOSED CATCHBASIN
- PROPOSED DOUBLE CATCHBASIN
- PROPOSED HYDRANT
- PROPOSED VALVE
- PROPOSED MAIL BOX
- PROPOSED HYDRO TRANSFORMER
- PROPOSED REDUCER
- PROPOSED LIGHT STANDARD POLE LOCATION

EXISTING SERVICES

- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN
- PROPOSED STORM AND SANITARY SERVICE
- PROPOSED WATER SERVICE
- PHASE BOUNDARY
- SECURITY FENCE
- CHAIN LINK FENCE
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BENCHMARK

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No.	DATE	BY	REVISIONS
DATE			SEPT. 2022
DESIGN			WG
DRAWN			KJG
SCALE			VERT. 1:250

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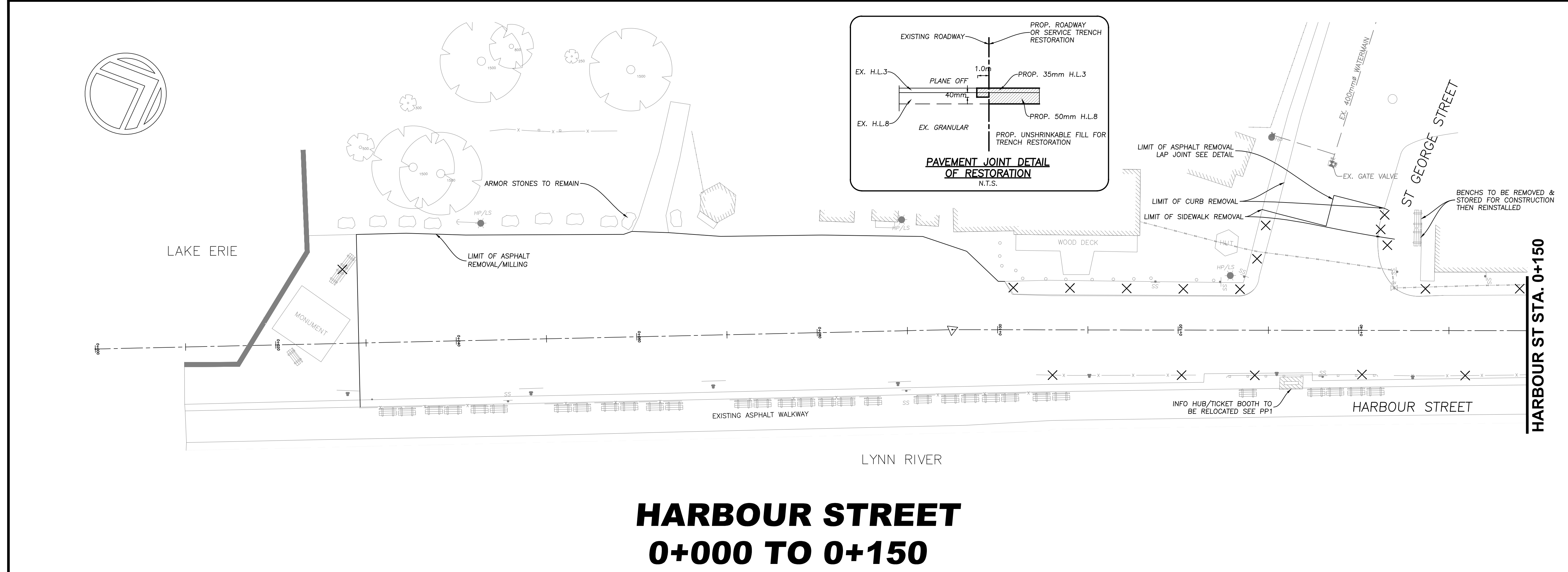
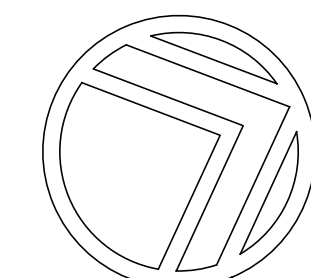
Norfolk County, Ontario, Canada

PORT DOVER HARBOUR STREET

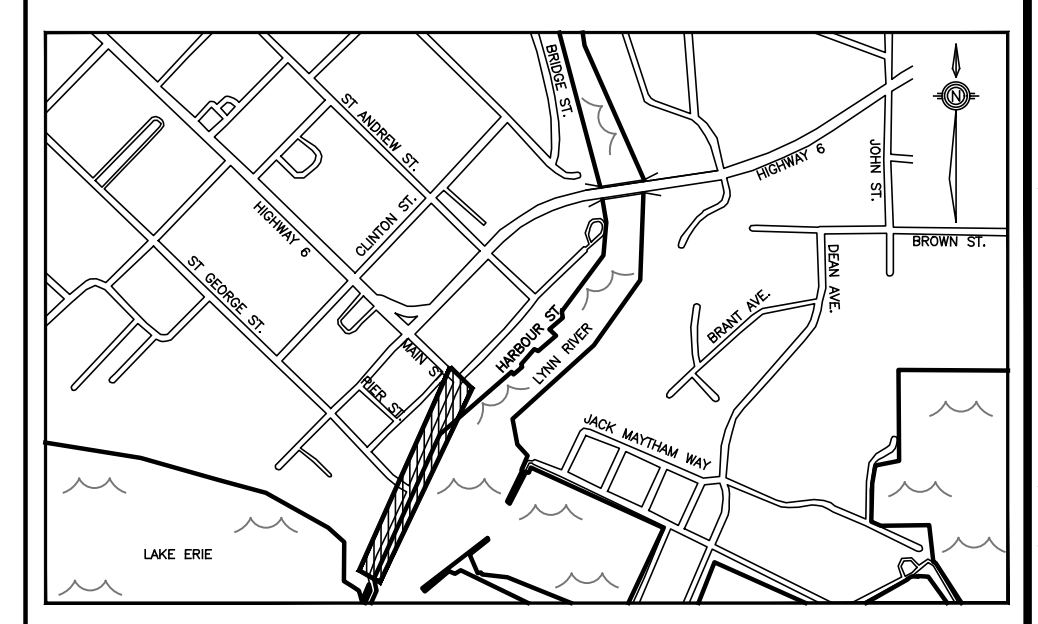
DWG. **PLAN AND PROFILE STA 0+415 - 0+505**

MUNICIPAL FILE. No. **EIS-ENG-22-75** PROJECT: **N22007**

CONTRACT No. **EIS-ENG-24-36** SHEET: **PP4**

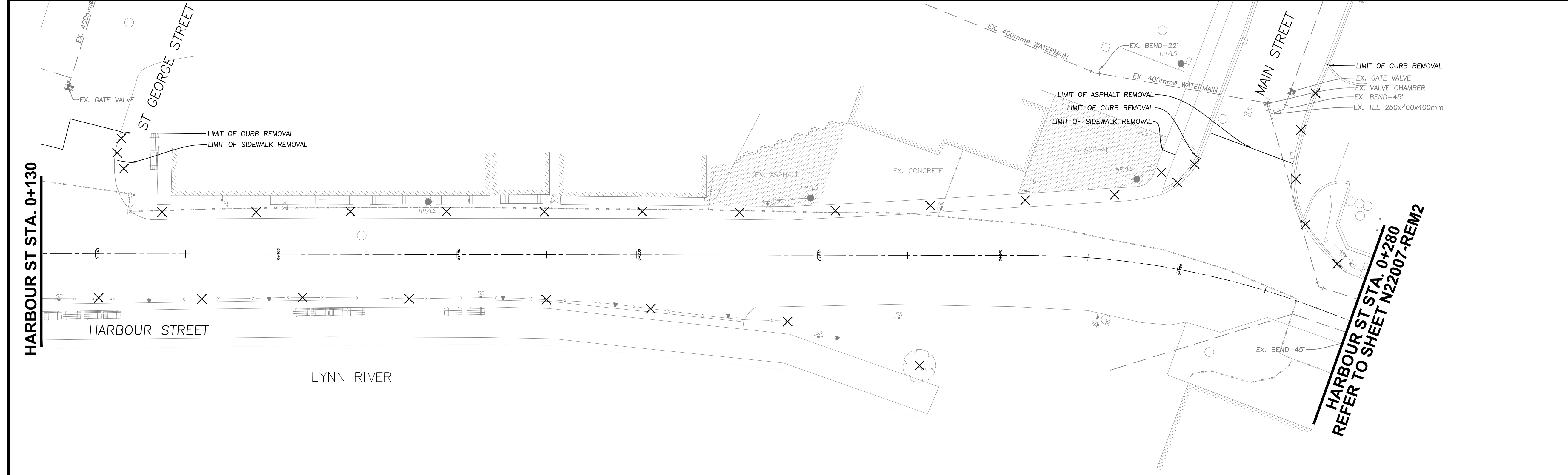


HARBOUR STREET 0+000 TO 0+150



KEY PLAN: N.T.S. **SUBJECT AREA**

✕ TO BE REMOVED	— EXISTING FENCE
☆ EXISTING LUMINAIRE	— EXISTING CAR BARRIER
○ EXISTING STORM MANHOLE	— EXISTING BIKE LOOP
○ EXISTING SANITARY MANHOLE	— EXISTING FLAG POLE
□ EXISTING CATCHBASIN	— EXISTING PARKING CURB
⊠ EXISTING HYDRO TRANSFORMER	
⊠ EXISTING BELL BOX	
⊠ EXISTING HYDRANT	
⊠ EXISTING VALVE	
HP/LS EXISTING HYDRO-POLE & STREET LIGHT	
⊙ EXISTING TREE	
⊙ EXISTING STREET SIGN	
⊙ EXISTING BENCH	
⊙ EXISTING BOAT TIE IN	



HARBOUR STREET 0+150 TO 0+280

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No.	DATE	BY	REVISIONS
DATE			SEPT. 2022
DESIGN			WG
DRAWN			KJG
SCALE			1:250

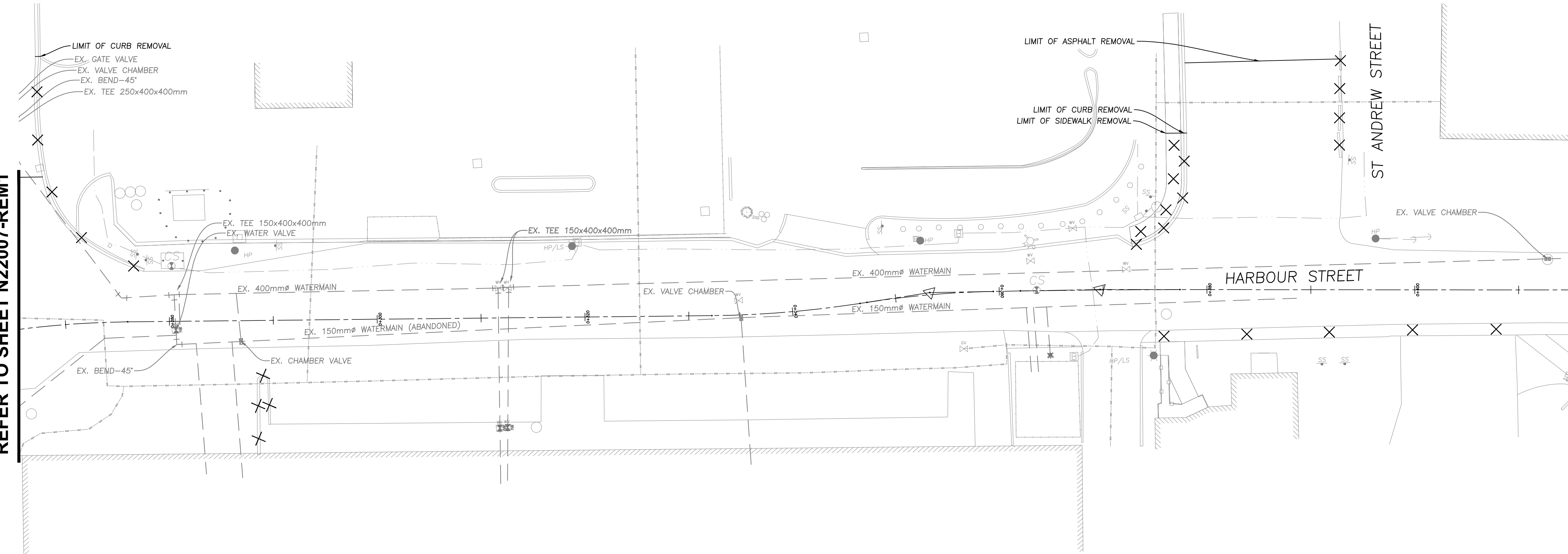
2255 BARTON ST. E, UNIT B
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 TEL. 905.578.1001
METROPOLITAN CONSULTING INC. EMAIL: ENGINEERING@METROCON.CA

Norfolk County
 Ontario's Garden
Norfolk County, Ontario, Canada

TITLE PORT DOVER HARBOUR STREET	
DWG. REMOVALS PLAN 1	
MUNICIPAL FILE No. EIS-ENG-22-75	PROJECT: N22007
CONTRACT No. EIS-ENG-24-36	SHEET: REM1

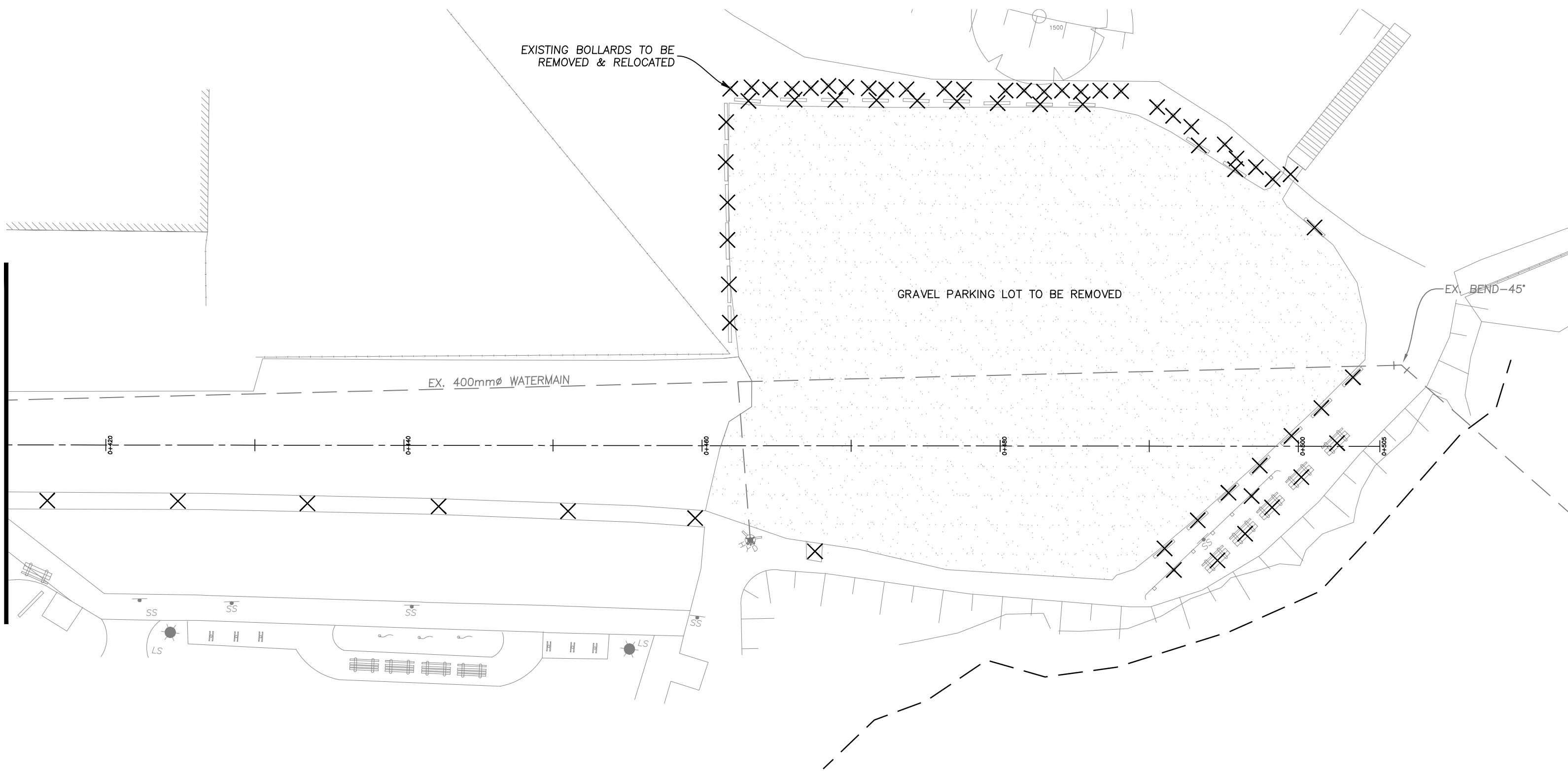
HARBOUR ST STA. 0+270
REFER TO SHEET N22007-REM1

HARBOUR ST STA. 0+415



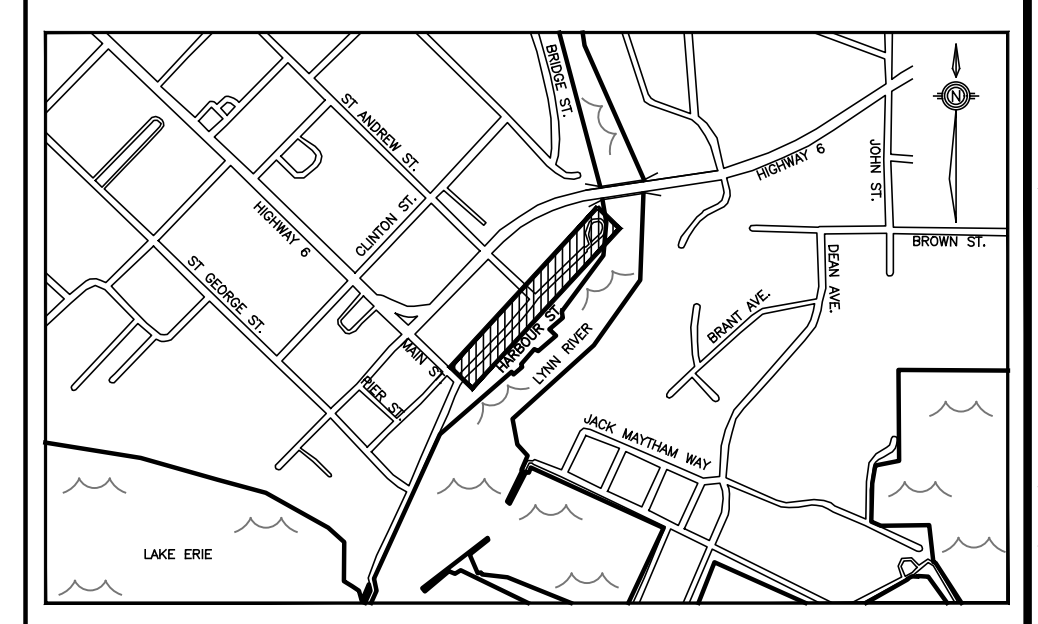
HARBOUR STREET 0+270 TO 0+415

HARBOUR ST STA. 0+415



LYNN RIVER

HARBOUR STREET 0+415 TO 0+505



KEY PLAN: N.T.S. SUBJECT AREA

- ✕ TO BE REMOVED
- ☆ EXISTING LUMINAIRE
- EXISTING STORM MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING CATCHBASIN
- ⊠ EXISTING HYDRO TRANSFORMER
- ⊞ EXISTING BELL BOX
- ⊞ EXISTING HYDRANT
- ⊞ EXISTING VALVE
- HP/LS EXISTING HYDRO-POLE & STREET LIGHT
- ⊙ EXISTING TREE
- ⊙ EXISTING STREET SIGN
- ⊙ EXISTING BENCH
- ⊙ EXISTING BOAT TIE IN
- EXISTING FENCE
- EXISTING CAR BARRIER
- EXISTING BIKE LOOP
- EXISTING FLAG POLE
- EXISTING PARKING CURB

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DRAWN	KJG	CHECKED TF
SCALE	1:250	

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Norfolk County
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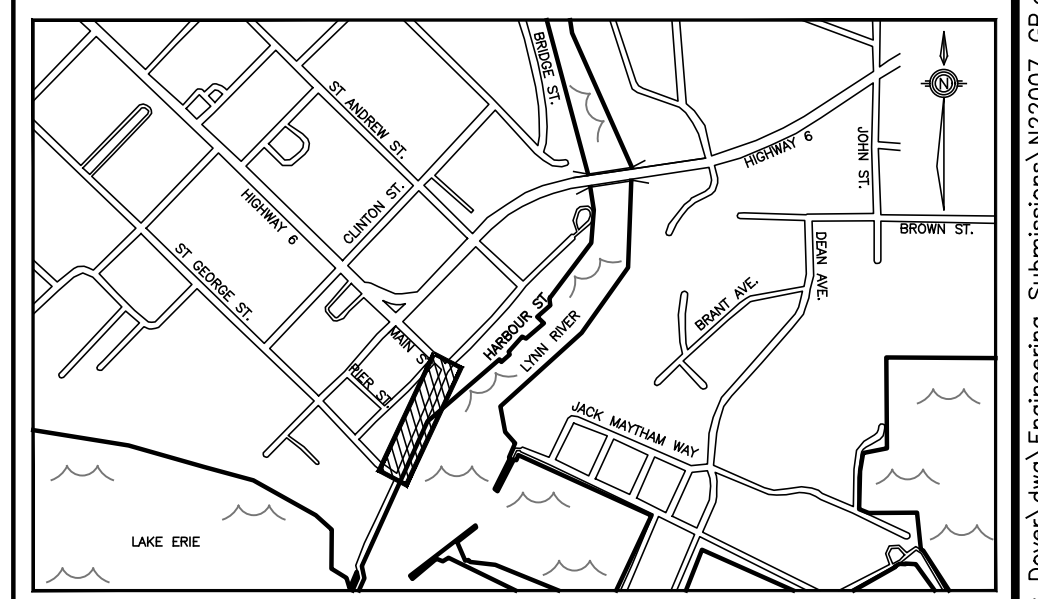
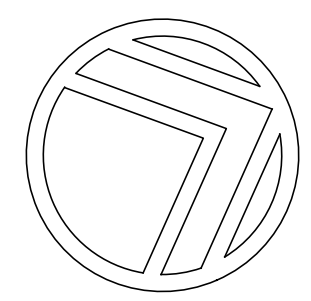
TITLE
**PORT DOVER
 HARBOUR STREET**

DWG.
REMOVALS PLAN 2

MUNICIPAL FILE No. **EIS-ENG-22-75** PROJECT: **N22007**

CONTRACT No. **EIS-ENG-24-36** SHEET: **REM2**

F:\Norfolk County\N22007 - Harbour St. Port Dover.dwg Engineering Submission\N22007 REM.dwg
 Plot Date: 2023-10-26 11:43:11 AM



KEY PLAN: N.T.S.

SUBJECT AREA

LEGEND

- ☆ EXISTING LUMINAIRE x(235.87) PROPOSED ELEVATION
- EXISTING STORM MANHOLE 242.25 EXISTING ELEVATION
- EXISTING SANITARY MANHOLE x(235.87-F) FUTURE ELEVATION
- EXISTING CATCHBASIN [237.15] PROPOSED MINIMUM BASEMENT ELEVATION
- EXISTING HYDRO TRANSFORMER [237.15] PROPOSED APRON ELEVATION
- ⊠ EXISTING BELL BOX 1/6-239.15 PROPOSED TOP OF GRATE ELEVATION
- ⊠ EXISTING HYDRANT x(239.32) PROPOSED SWALE ELEVATION
- ⊠ EXISTING VALVE (TW239.41) PROPOSED TOP OF RETAINING WALL ELEVATION
- EXISTING HYDRO-POLE V.C. VERTICAL CURVE
- ➔ MAJOR OVERLAND FLOW ROUTE B.V.C. BEGINNING OF VERTICAL CURVE
- ➔ PROPOSED STORM MANHOLE H.P. CENTRE LINE OF PAVEMENT HIGH POINT ON ROAD
- ➔ PROPOSED SANITARY MANHOLE L.P. CENTRE LINE OF PAVEMENT LOW POINT ON ROAD
- ➔ PROPOSED CATCHBASIN G.C. CENTRE LINE OF PAVEMENT CHANGE IN GRADE
- ⊠ PROPOSED HYDRANT
- ⊠ PROPOSED VALVE
- ⊠ PROPOSED MAIL BOX
- ⊠ PROPOSED STREETLIGHT
- ⊠ PROPOSED STREETLIGHT PEDESTAL
- ➔ EXISTING SWALE
- ➔ PROPOSED SWALE
- ➔ EXISTING 1.8m CHAIN LINK FENCE
- ➔ PROPOSED 1.8m PRIVACY FENCE
- ➔ PROPOSED 1.8m BLACK VINYL CHAIN LINK FENCE
- ➔ PROPOSED 1.5m CHAIN LINK FENCE
- ➔ PROPOSED TRANSFORMER
- ⊠ PROPOSED HYDRO VAULT
- ⊠ UNIT REQUIRES SUMP PUMP
- ➔ PARKING LOT TRAFFIC FLOW
- ⊠ PROPOSED SILT SACKS
- ⊠ EXISTING ASPHALT TO BE SAWCUT AND REMOVED

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 PORT DOVER HIGHWAY No. 6 LIFT BRIDGE OVER LYNN RIVER, 0.8km EAST OF POST OFFICE, TABLET IN SOUTH FACE OF CONCRETE CURB AT SOUTH SIDE OF BRIDGE. 43cm FROM EAST END, 30cm BELOW TOP, NEAR ROAD LEVEL.

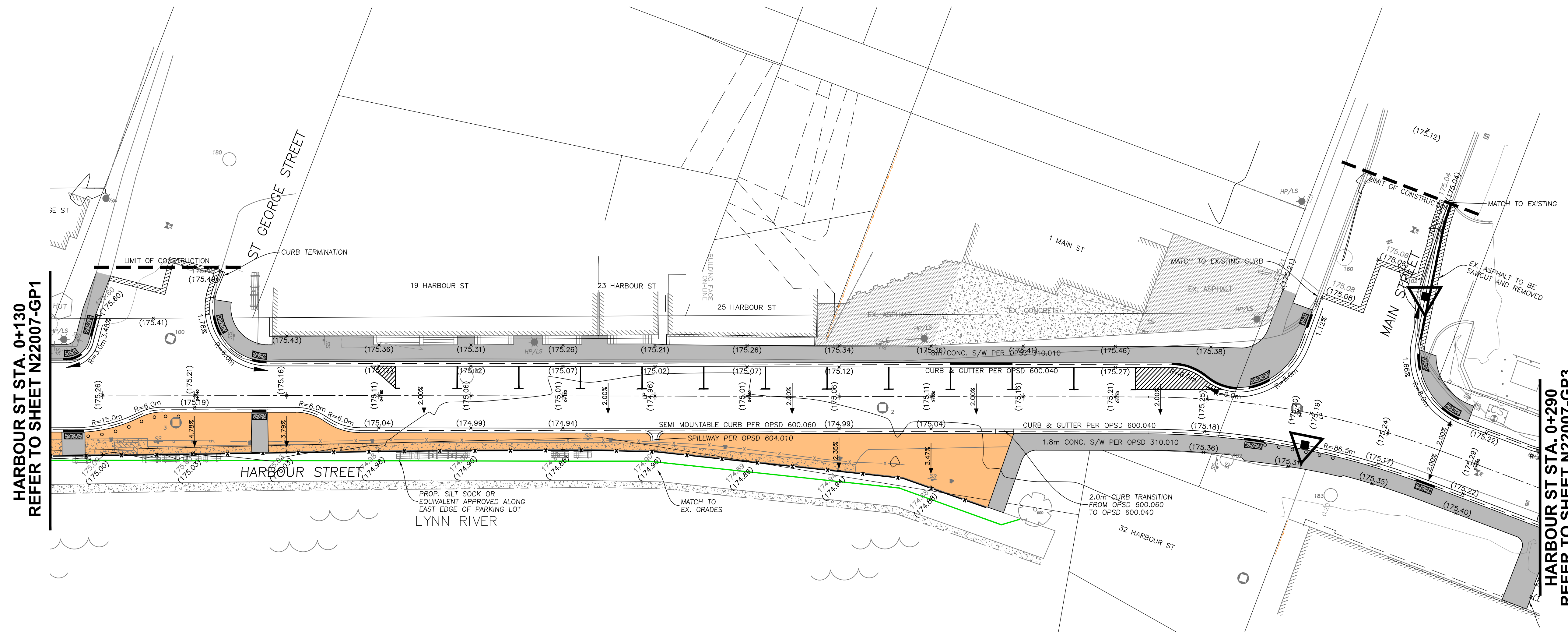
DATE	BY	REVISIONS
3	Oct. 23	KJG 90% SUBMISSION
2	Mar. 23	APK 60% SUBMISSION
1	Sept. 22	KJG 30% SUBMISSION

DATE	BY	REVISIONS	STAMP
SEPT. 2022			
DESIGN	WG	CHECKED	KGH
DRAWN	KJG	CHECKED	TF
SCALE			
1:250			

2255 BARTON ST. E, UNIT B
 HAMILTON, ON, L8H 7T4
 TEL. 905.578.1001
METROPOLITAN CONSULTING INC. EMAIL: ENGINEERING@METROCON.CA

Norfolk County, Ontario, Canada
 Ontario's Garden

TITLE	HARBOUR STREET PORT DOVER	
DWG.	GRADING PLAN	
MUNICIPAL FILE No.	EIS-ENG-22-75	PROJECT: N22007
CONTRACT No.	EIS-ENG-24-36	SHEET: GP2

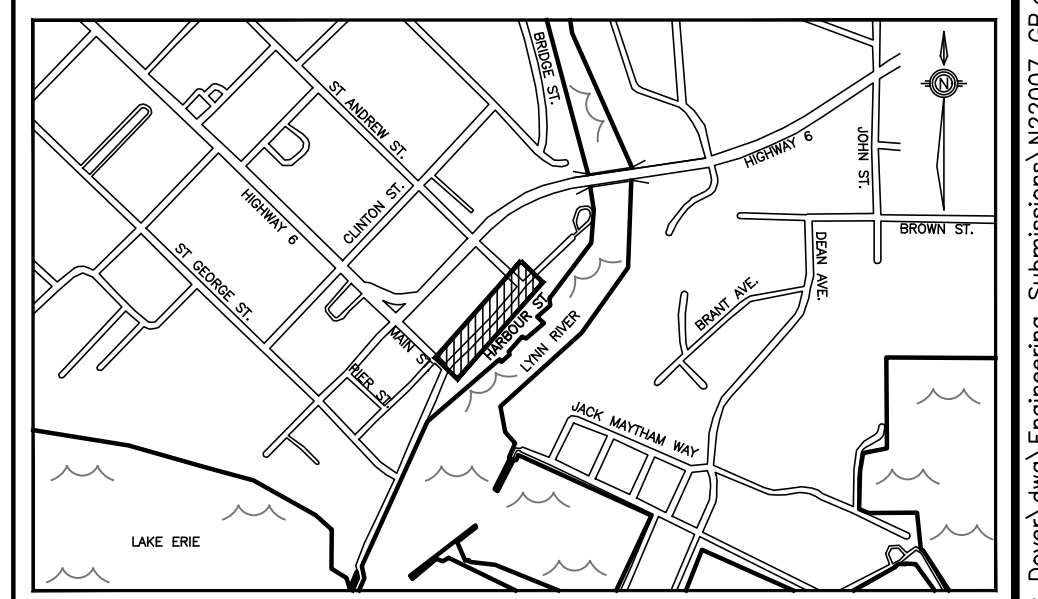
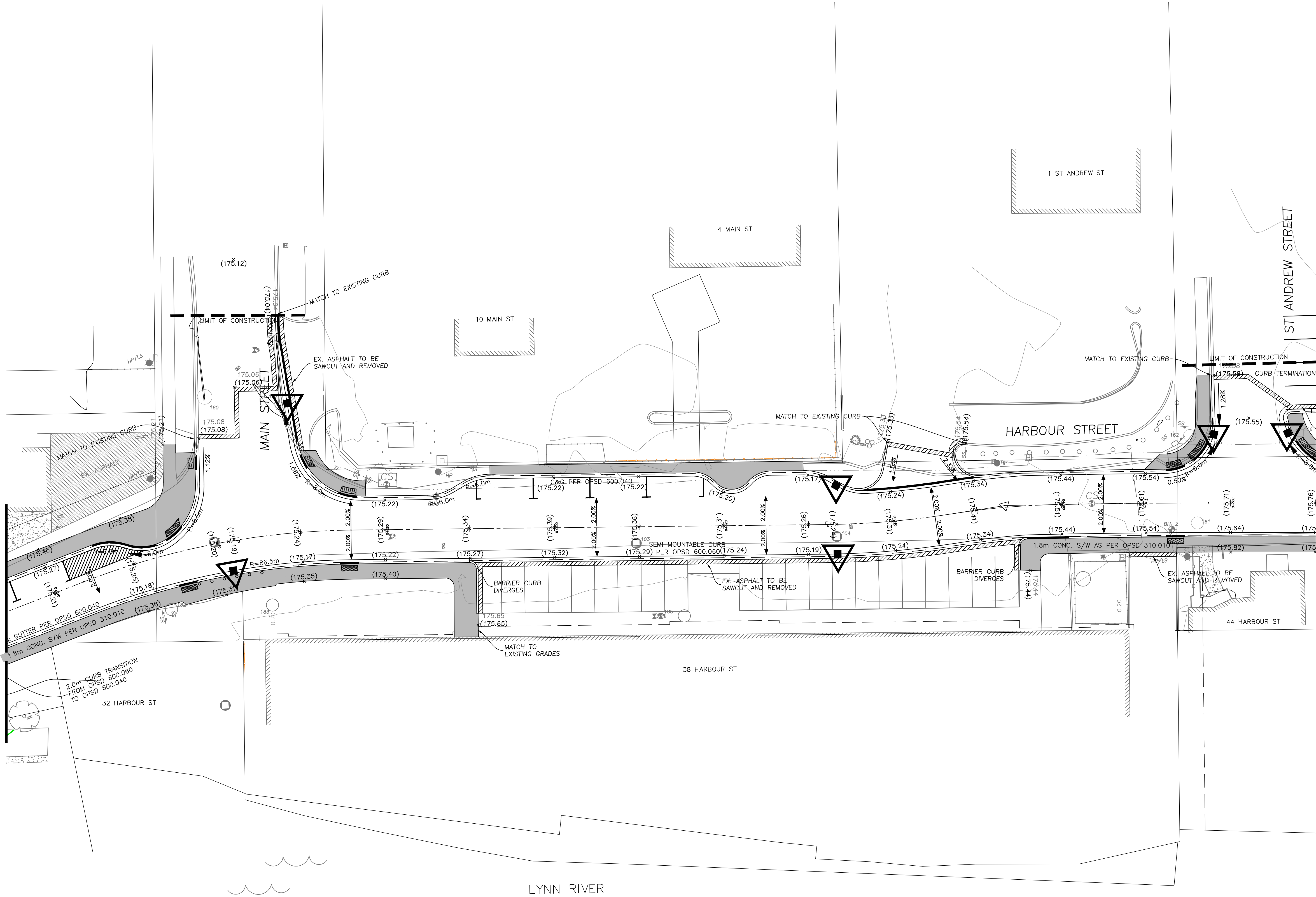
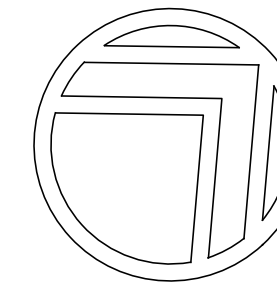


HARBOUR ST STA. 0+130
 REFER TO SHEET N22007-GP1

HARBOUR ST STA. 0+290
 REFER TO SHEET N22007-GP3

HARBOUR ST STA. 0+230
REFER TO SHEET N22007-GP3

HARBOUR ST STA. 0+390
REFER TO SHEET N22007-GP4



KEY PLAN: N.T.S. **SUBJECT AREA**

LEGEND

☆ EXISTING LUMINAIRE	x(235.87)	PROPOSED ELEVATION
○ EXISTING STORM MANHOLE	242.25	EXISTING ELEVATION
○ EXISTING SANITARY MANHOLE	x(235.87-F)	FUTURE ELEVATION
□ EXISTING CATCHBASIN	[237.15]	PROPOSED MINIMUM BASEMENT ELEVATION
□ EXISTING HYDRO TRANSFORMER	[237.15]	PROPOSED APRON ELEVATION
⊠ EXISTING BELL BOX	1/6-239.15	PROPOSED TOP OF GRATE ELEVATION
⊠ EXISTING HYDRANT	x(239.32)	PROPOSED SWALE ELEVATION
⊠ EXISTING VALVE	(17629.41)	PROPOSED TOP OF RETAINING WALL ELEVATION
○ EXISTING HYDRO-POLE	V.C.	VERTICAL CURVE
→ MAJOR OVERLAND FLOW ROUTE	B.V.C.	BEGINNING OF VERTICAL CURVE
	E.V.C.	END OF VERTICAL CURVE
● PROPOSED STORM MANHOLE	H.P.	CENTRE LINE OF PAVEMENT HIGH POINT ON ROAD
● PROPOSED SANITARY MANHOLE	L.P.	CENTRE LINE OF PAVEMENT LOW POINT ON ROAD
	G.C.	CENTRE LINE OF PAVEMENT CHANGE IN GRADE
■ PROPOSED CATCHBASIN	↻	PARKING LOT TRAFFIC FLOW
⊠ PROPOSED HYDRANT	⊠	PROPOSED SILT SACKS
⊠ PROPOSED VALVE	⊠	PROPOSED TRANSFORMER
⊠ PROPOSED MAIL BOX	⊠	PROPOSED STREETLIGHT
⊠ PROPOSED STREETLIGHT	⊠	PROPOSED STREETLIGHT PEDESTAL
⊠ PROPOSED STREETLIGHT PEDESTAL	⊠	PROPOSED HYDRO VAULT
→ 2.0%	⊠	UNIT REQUIRES SUMP PUMP
---	---	EXISTING 1.8m CHAIN LINK FENCE
---	---	PROPOSED 1.8m PRIVACY FENCE
---	---	PROPOSED 1.8m BLACK VINYL CHAIN LINK FENCE
---	---	PROPOSED 1.5m CHAIN LINK FENCE

THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND ABOVE GROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED.

BEFORE STARTING WORK, THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

BENCHMARK
 DATUM: CBVD2013
 ELEVATION: 181.779m

LOCATION DISCRETION:
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P:\Norfolk County\N22007 - Harbour St Port Dover\Eng\Engineering Submissions\N22007_GP.dwg Plot Date: 2023-10-25 10:55:07 AM

