

CAUTION:
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PROPOSED TOWNHOUSE DEVELOPMENT PRETTY RIVER ESTATES TOWN OF COLLINGWOOD

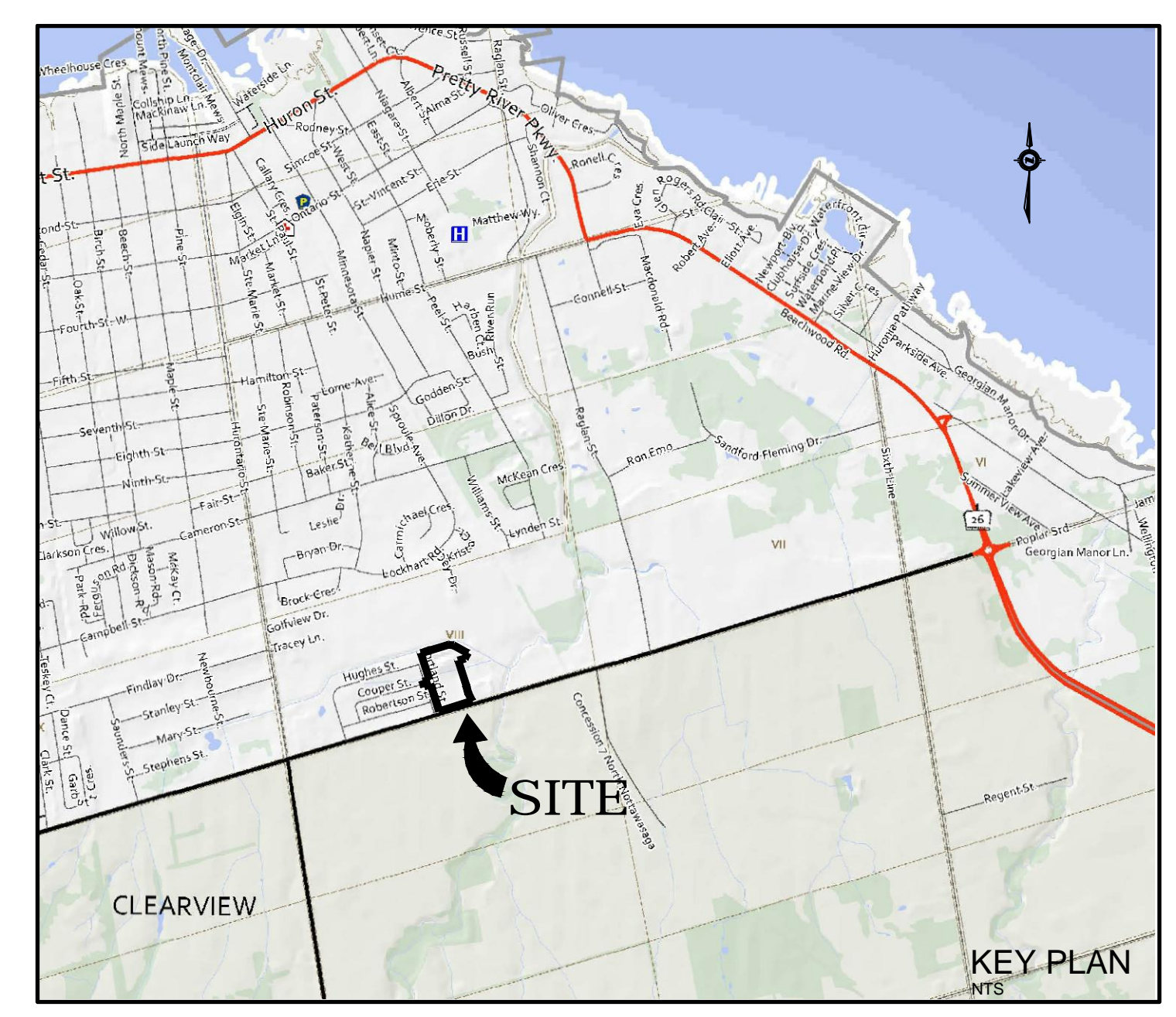
CONTRACT NO. 22-00703-01

MAYOR : MR. BRIAN SAUNDERSON
 CHIEF ADMINISTRATIVE OFFICER : MS. SONYA SKINNER
 CLERK : MS. SARA ALMAS
 DIRECTOR, PUBLIC WORKS, ENGINEERING & ENVIRONMENTAL SERVICES : MS. PEGGY SLAMA

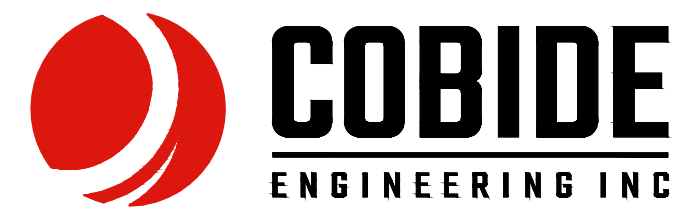
OWNER :
 SUNVALE HOMES LTD.

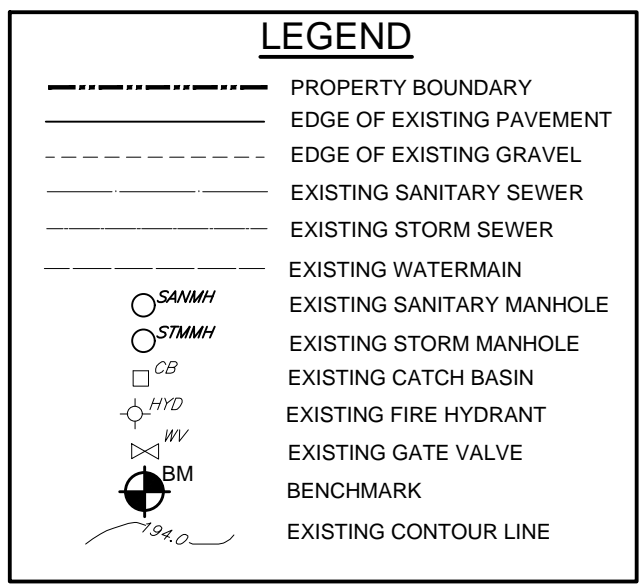
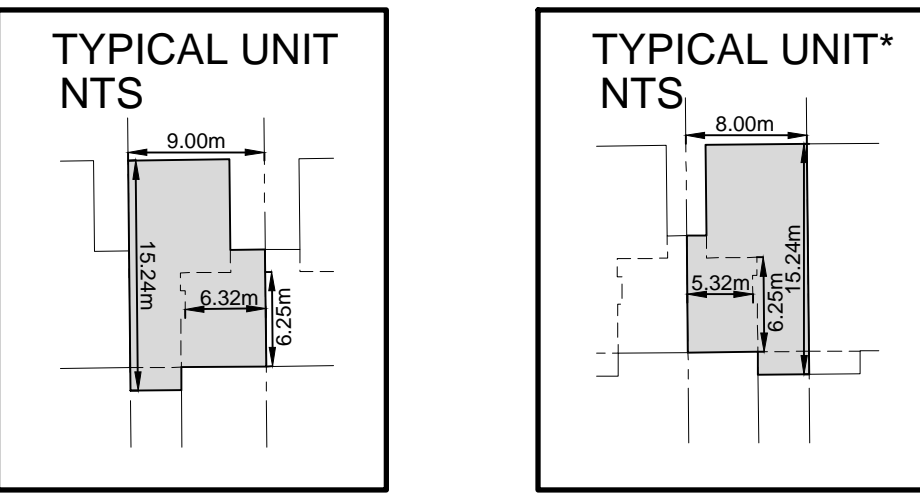
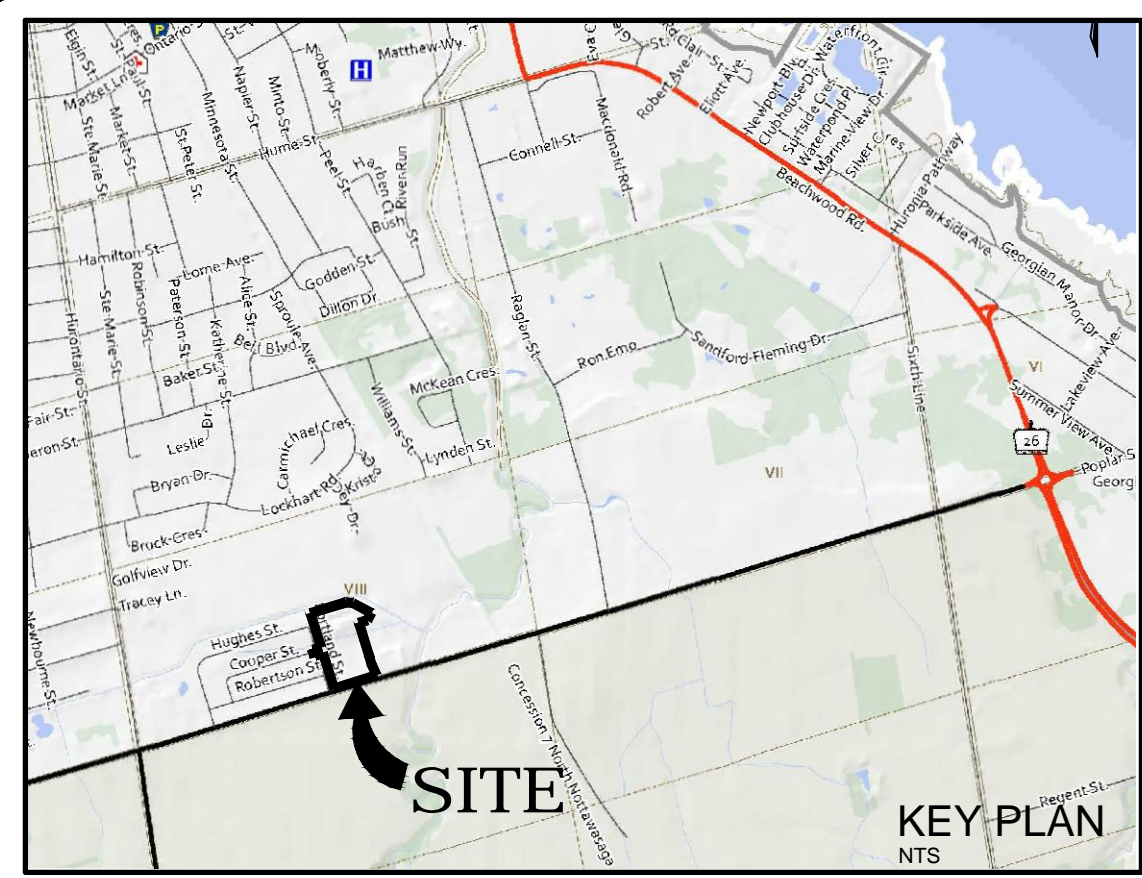
index

SHEET No.	DESCRIPTION
00703-SP1	SITE PLAN
00703-SAN1	SANITARY DRAINAGE AREAS
00703-STM1	STORM SEWER DRAINAGE AREAS
00703-SS1	GENERAL SERVICING PLAN 1
00703-SS2	GENERAL SERVICING PLAN 2
00703-SG1	SITE GRADING PLAN 1
00703-SG2	SITE GRADING PLAN 2
00703-C1	<u>STREET A</u> STA. 0+000 TO STA. 0+208.16 PLAN AND PROFILE
00703-C2	<u>STREET B</u> STA. 1+000 TO STA. 1+198.72 PLAN AND PROFILE
00703-C3	<u>STREET C</u> STA. 2+000 TO STA. 2+190.99 PLAN AND PROFILE
00703-C4	<u>STREET D</u> STA. 3+000 TO STA. 3+074.59 PLAN AND PROFILE
00703-C5	<u>STREET E</u> STA. 4+000 TO STA. 4+100.96 PLAN AND PROFILE
00703-C6	WATERMAIN & HYDRANT COVERAGE PLAN
00703-DET1	ENGINEERING STANDARDS, TYPICAL STREET CROSS SECTION & MISCELLANEOUS DETAILS
00703-DET2	MISCELLANEOUS DETAILS 2
00703-DET3	MISCELLANEOUS DETAILS 3



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1	MAY 2022	SECOND SUBMISSION	TLB	SJC
0	NOV 08/21	FOR PRE-CONSULTATION	TLB	SJC
No.	DATE	DESCRIPTION	BY	APPD
REVISION / ISSUE				
Seal not valid unless signed and dated				
 COBIDE ENGINEERING INC 517 10th Street, Hanover, Ontario N4N 1R4 Telephone: (519) 506-5959 www.cobideeng.com				
Title: PROPOSED TOWNHOUSE DEVELOPMENT PRETTY RIVER ESTATES TOWN OF COLLINGWOOD TITLE SHEET				
Client: SUNVALE HOMES LTD.				
Design:	TLB	Scale:		
Drawn:	JAF	Approved:		
Checked:	SJC			
Date:	JUN 2021	Design Engineer		
DRAWING No.				00703-TS



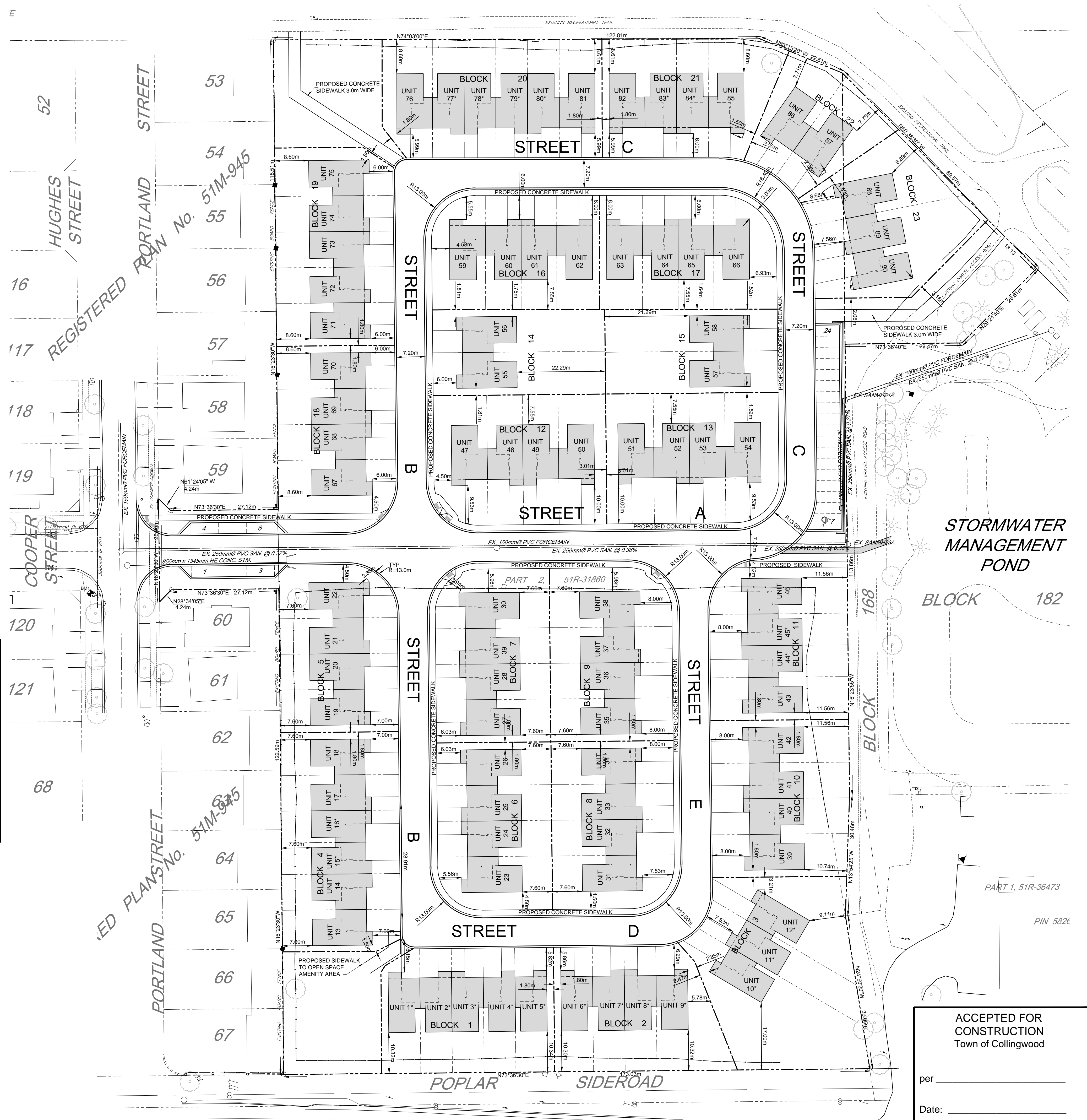
SITE STATISTICS

PARCEL 1
AREA = 3.795 ha.
NUMBER OF UNITS = 90
DENSITY = 23.7 UNITS PER HECTARE

PROPOSED TOWNHOUSE DEVELOPMENT STATISTICS

PROPOSED USE: RESIDENTIAL TOWNHOUSE DWELLING
ZONE: R3-60

REGULATION	REQUIRED	PROVIDED
MIN. FRONT YARD	6.0 m	7.6 m
MIN. EXTERIOR SIDE YARD	6.0 m	10.30 m
MIN. INTERIOR SIDE YARD	6.0 m	7.75 m
MIN. REAR YARD	7.5 m	7.71 m
MAX. LOT COVERAGE	40%	24.8%
MIN. LANDSCAPED OPEN SPACE	35%	47.0%
EXCEPTION 60-	MINIMUM YARD ABUTTING THE REAR LOT LINE OF A RESIDENTIAL SECOND DENSITY NINE (R2-9) ZONE: 7.5m	7.6 m
	MINIMUM YARD FOR ANY BUILDING OR STRUCTURE ABUTTING A STREET UNDER THE JURISDICTION OF SIMCOE COUNTY: 10m	10.30 m



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 - SEE SHEET 00703-DET1 FOR TYPICAL CROSS SECTION AND PAVEMENT DESIGN
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 - ALL JOINTS OF SANITARY MANHOLES TO BE CAULKED WITH MIN. 15mm BEAD, INSTALLED ON THE TOP OF JOINT OF EACH SECTION PRIOR TO SECTION ABOVE BEING INSTALLED. CAULKING TO BE SIKAFLEX 1A OR APPROVED EQUIVALENT.
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 - ALL STORM CATCHBASINS TO HAVE A MINIMUM SUMP OF 600mm AND ALL STORM MANHOLES TO HAVE A MINIMUM SUMP OF 300mm.
 - STORM SEWERS TO BE BERLID HOPE IN 50mmØ WASHED CLEAR STONE WRAPPED IN NONWOVEN GEOTEXTILE EXCEPT 3m ENTERING AND EXITING STORM STRUCTURES WHICH IS TO BE SOLID PIPE. SEE DETAIL SHEET 00814-DET1.
 - ALL DITCH INLET CATCHBASINS TO HAVE HORIZONTAL HONEYCOMB GRATE PER O.P.S. D.403.018.
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 - ALL WATERMANS TO BE DUCTILE IRON WITH 20mmØ COPPER WATER SERVICES.
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Benchmark Information

BM1
TOP NUT OF FIRE HYDRANT LOCATED ON THE SOUTH-WESTERLY CORNER OF THE INTERSECTION OF COOPER STREET AND PORTLAND STREET.
ELEVATION 195.24m

No.	DATE	DESCRIPTION	BY	APPD
1	MAY 2022	SECOND SUBMISSION	TLB	SJC
0	NOV 08/21	FOR PRE-CONSULTATION	TLB	SJC

REVISION / ISSUE

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COBIDE ENGINEERING INC
517 10th Street, Hanover, Ontario N4N 1R4
Telephone: (519) 506-5959
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**PROPOSED TOWNHOUSE DEVELOPMENT
PRETTY RIVER ESTATES
TOWN OF COLLINGWOOD
SITE PLAN**

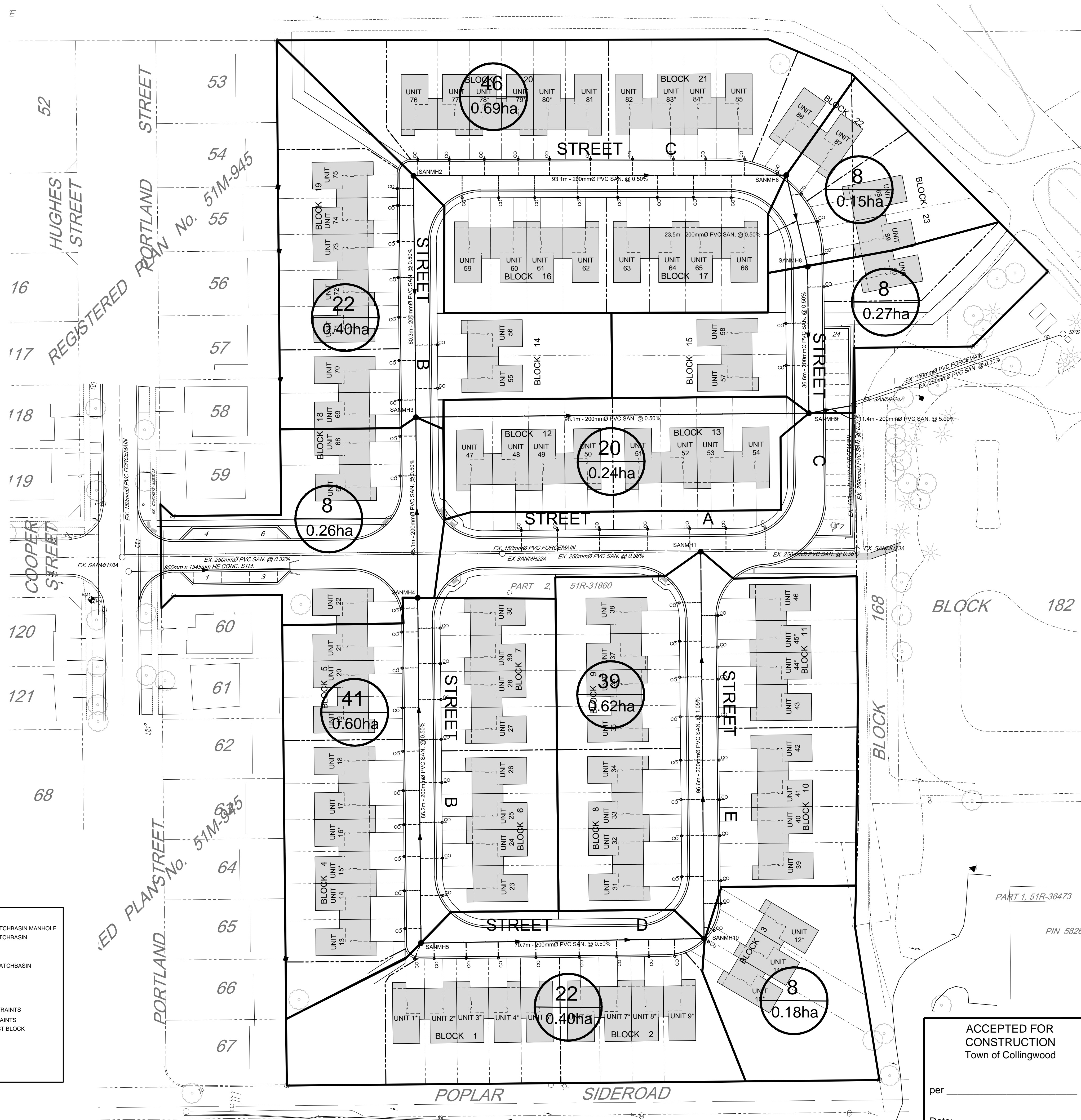
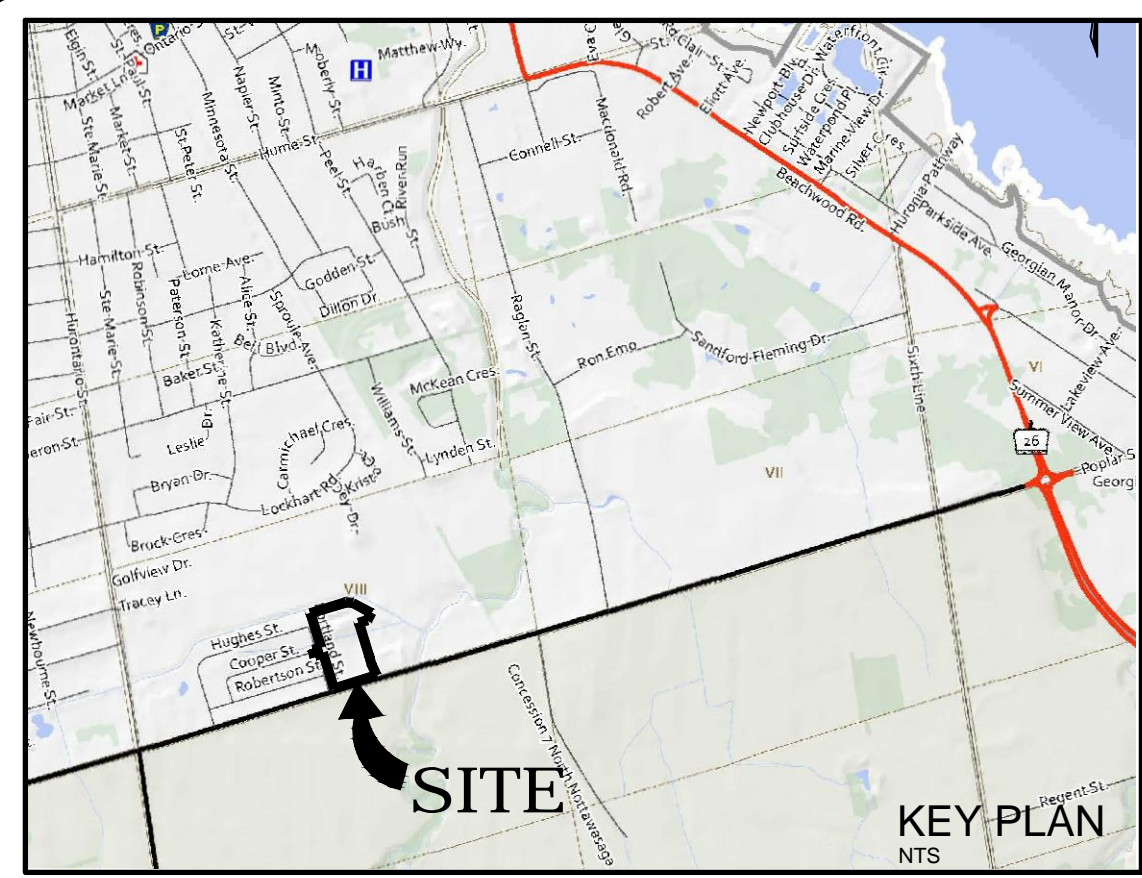
Client: **SUNVALE HOMES LTD.**

Design: TLB Scale: 1:500
Drawn: JAF Approved:
Checked: SJC
Date: JUN 2021 Design Engineer

DRAWING No. 00703-SP1

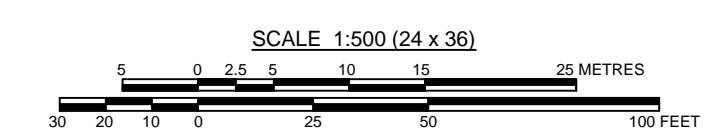
ACCEPTED FOR CONSTRUCTION
Town of Collingwood

per _____
Date: _____



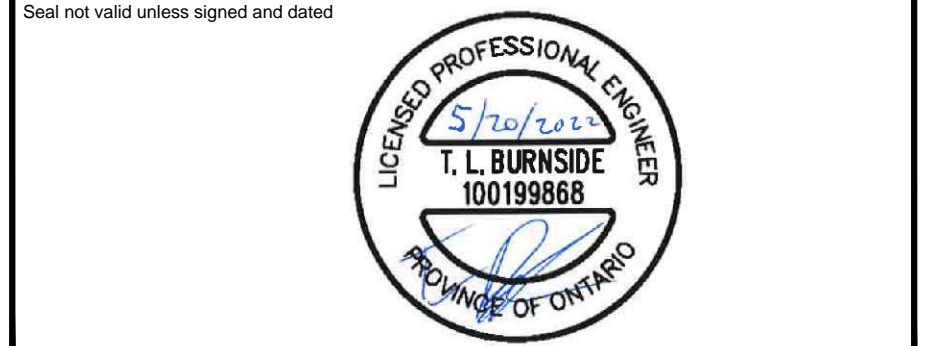
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File: **PROPOSED TOWNHOUSE DEVELOPMENT PRETTY RIVER ESTATES TOWN OF COLLINGWOOD SANITARY SEWER CATCHMENT AREAS**

Client: **SUNVALE HOMES LTD.**

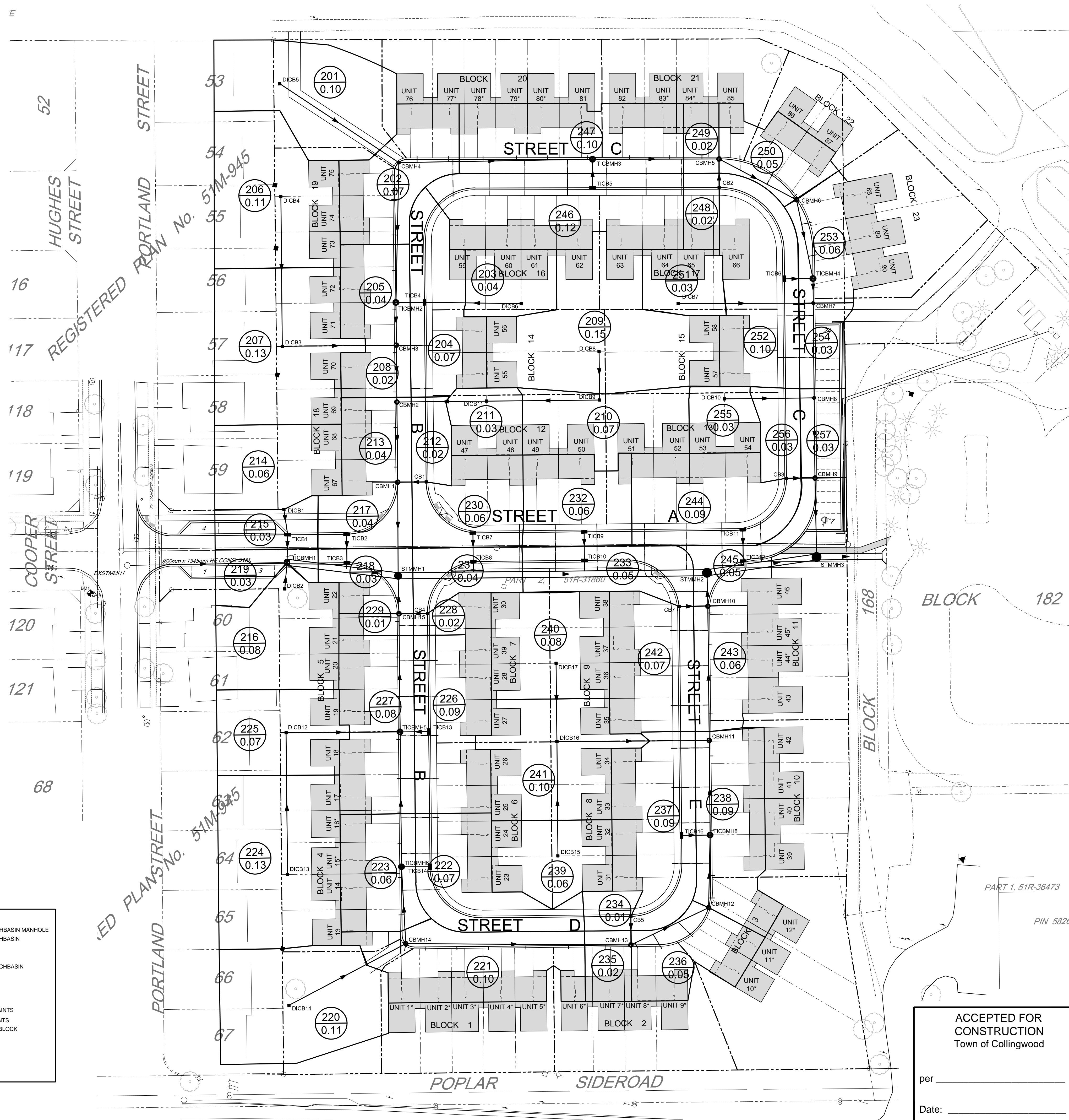
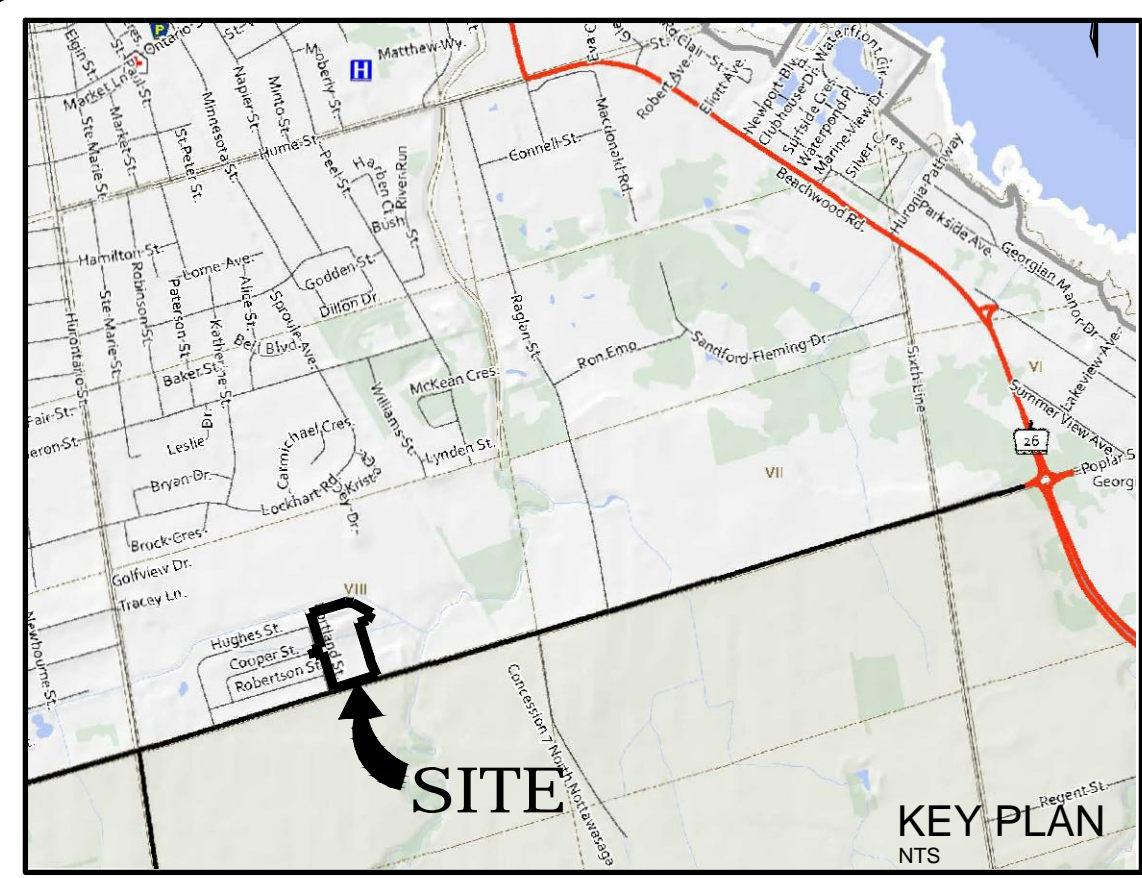
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Drawn: JAF	Approved:
Checked: SJC	
Date: JUN 2021	Design Engineer
DRAWING No. 00703-SAN1	

ACCEPTED FOR CONSTRUCTION
Town of Collingwood

per _____
Date: _____

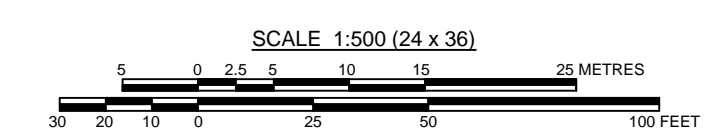
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<ul style="list-style-type: none"> PROPERTY BOUNDARY EDGE OF EXISTING PAVEMENT EDGE OF EXISTING GRAVEL PROPOSED SANITARY SEWER EXISTING SANITARY SEWER PROPOSED STORM SEWER EXISTING STORM SEWER PROPOSED SUBDRAIN PROPOSED WATERMAIN EXISTING WATERMAIN PROPOSED SANITARY MANHOLE EXISTING SANITARY MANHOLE PROPOSED STORM MANHOLE EXISTING STORM MANHOLE PROPOSED CATCHBASIN MANHOLE 	<ul style="list-style-type: none"> TICBMH TICB CB ICB DICB HYD GV RV BM 486.21 486.21 194.0 	<ul style="list-style-type: none"> PROPOSED TWIN INLET CATCHBASIN MANHOLE PROPOSED TWIN INLET CATCHBASIN PROPOSED CATCH BASIN EXISTING CATCH BASIN PROPOSED DITCH INLET CATCHBASIN PROPOSED HYDRANT SET EXISTING FIRE HYDRANT PROPOSED GATE VALVE EXISTING GATE VALVE PROPOSED BEND c/w RESTRAINTS EXISTING BEND c/w RESTRAINTS PROPOSED TEE c/w RESTRAINTS PROPOSED CAP c/w THRUST BLOCK PROPOSED BLOWOFF BENCHMARK PROPOSED ELEVATION EXISTING ELEVATION EXISTING CONTOUR LINE
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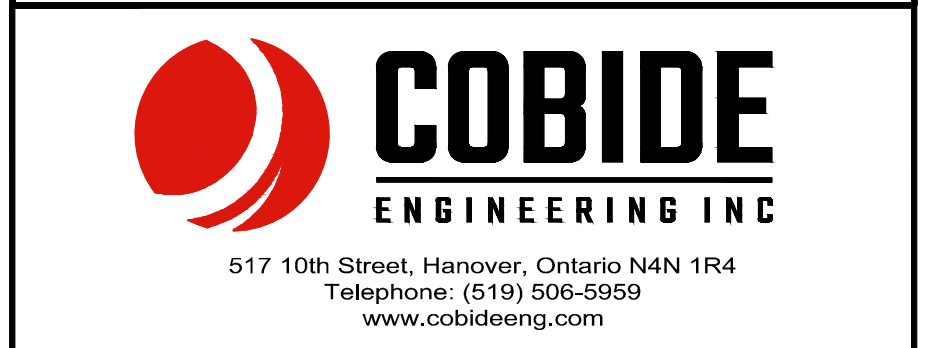
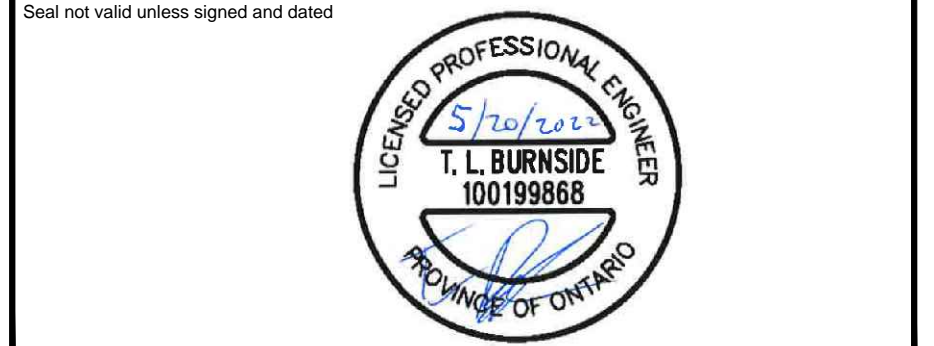
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0	NOV 08/21	FOR PRE-CONSULTATION	TLB	SJC



File: PROPOSED TOWNHOUSE DEVELOPMENT
 PRETTY RIVER ESTATES
 TOWN OF COLLINGWOOD
 STORM SEWER CATCHMENT AREAS

Client: SUNVALE HOMES LTD.

Design: TLB	Scale: 1:500
Drawn: JAF	Approved:
Checked: SJC	
Date: JUN 2021	Design Engineer

DRAWING No. 00703-STM1

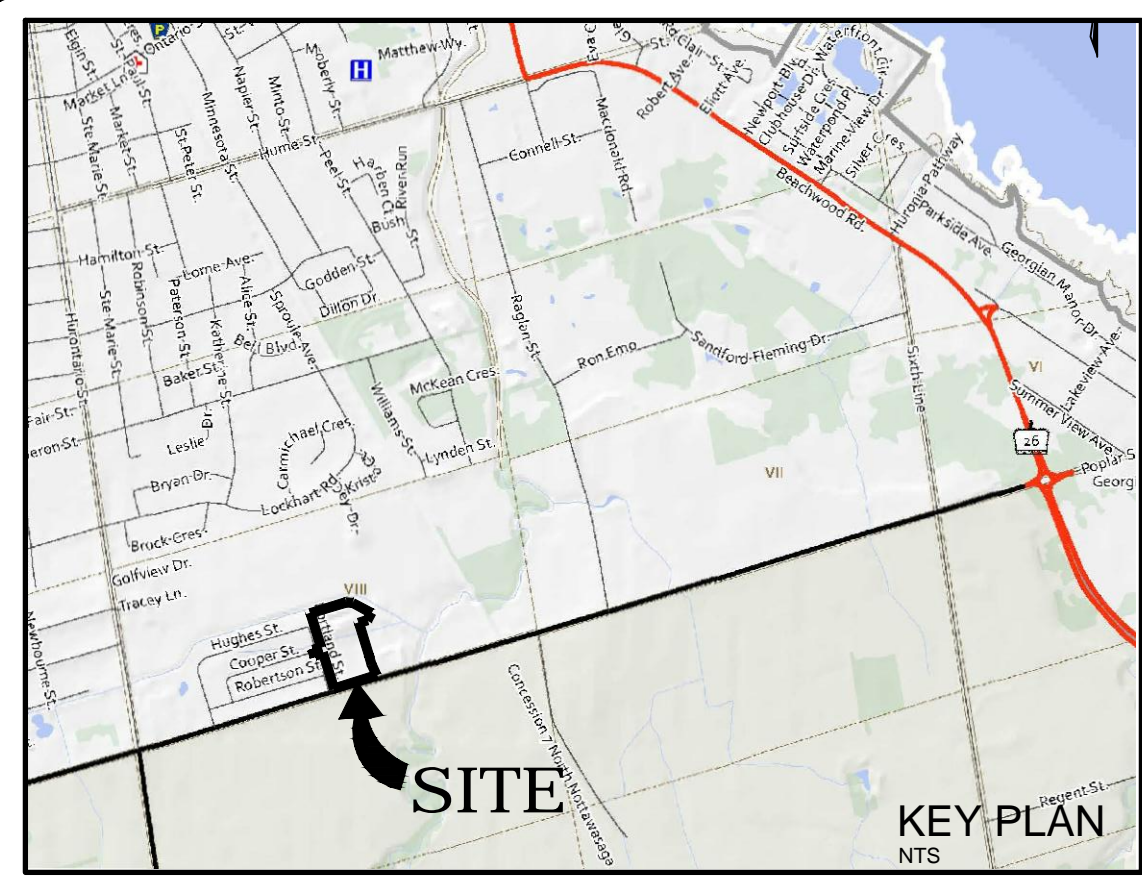
ACCEPTED FOR CONSTRUCTION
 Town of Collingwood

per _____
 Date: _____

LEGEND

---	PROPERTY BOUNDARY	○	TICBMH	○	PROPOSED TWIN INLET CATCHBASIN MANHOLE
- - -	EDGE OF EXISTING PAVEMENT	□	TICB	□	PROPOSED TWIN INLET CATCHBASIN
- - -	EDGE OF EXISTING GRAVEL	□	CB	□	PROPOSED CATCH BASIN
---	PROPOSED SANITARY SEWER	□	DICB	□	EXISTING CATCH BASIN
---	EXISTING SANITARY SEWER	□	DICB	□	PROPOSED DITCH INLET CATCHBASIN
---	PROPOSED STORM SEWER	□	DICB	□	PROPOSED HYDRANT SET
---	EXISTING STORM SEWER	□	DICB	□	EXISTING FIRE HYDRANT
---	PROPOSED SUBDRAIN	□	DICB	□	PROPOSED GATE VALVE
---	EXISTING SUBDRAIN	□	DICB	□	EXISTING GATE VALVE
---	PROPOSED WATERMAIN	□	DICB	□	PROPOSED BEND c/w RESTRAINTS
---	EXISTING WATERMAIN	□	DICB	□	PROPOSED TEE c/w RESTRAINTS
○	SANMH	□	DICB	□	PROPOSED GATE VALVE
○	SANMH	□	DICB	□	PROPOSED CAP c/w THRUST BLOCK
○	STMMH	□	DICB	□	PROPOSED BLOWOFF
○	STMMH	□	DICB	□	BENCHMARK
○	STMMH	□	DICB	□	PROPOSED ELEVATION
○	CBMH	□	DICB	□	EXISTING ELEVATION
○	CBMH	□	DICB	□	EXISTING CONTOUR LINE

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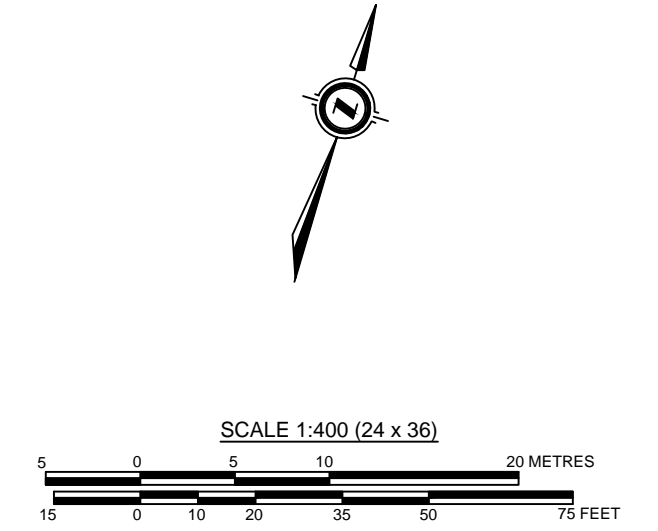
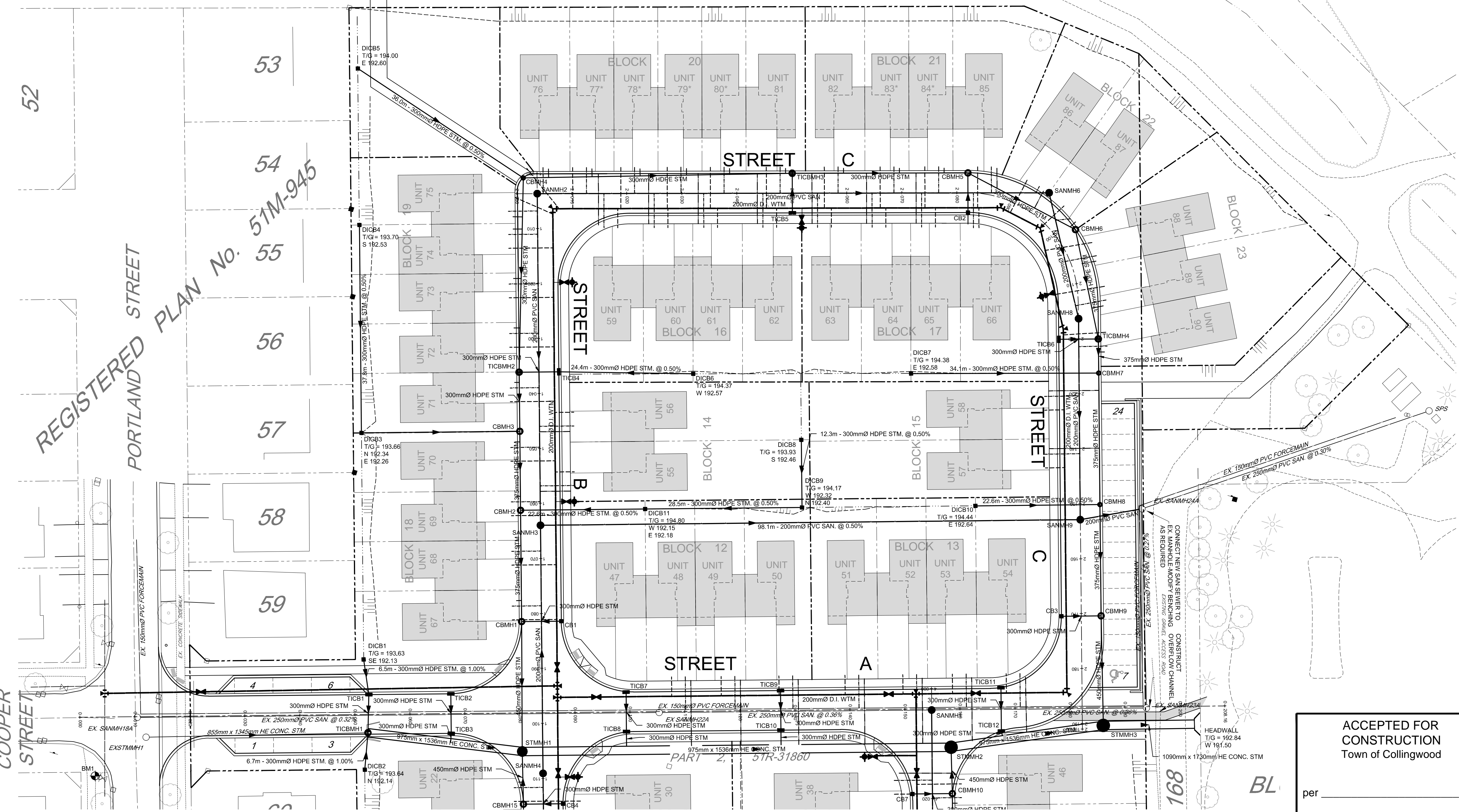
LEGEND

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—	PROPOSED SANITARY SEWER	○	DCB	—	EXISTING CATCH BASIN
—	EXISTING SANITARY SEWER	○	DICB	—	PROPOSED DITCH INLET CATCHBASIN
—	PROPOSED STORM SEWER	○	HTD	—	PROPOSED HYDRANT SET
—	EXISTING STORM SEWER	○	HTV	—	EXISTING FIRE HYDRANT
—	PROPOSED SUBDRAIN	○	HT	—	PROPOSED GATE VALVE
—	EXISTING SUBDRAIN	○	HTV	—	EXISTING GATE VALVE
—	PROPOSED WATERMAIN	○	HT	—	PROPOSED BEND c/w RESTRAINTS
—	EXISTING WATERMAIN	○	HT	—	PROPOSED TEE c/w RESTRAINTS
○	SANMH	○	HT	—	PROPOSED CAP c/w THRUST BLOCK
○	SANMH	○	HT	—	PROPOSED BLOWOFF
○	STMMH	○	HT	—	BENCHMARK
○	STMMH	○	HT	—	PROPOSED ELEVATION
○	CBMH	○	HT	—	EXISTING ELEVATION
○	CBMH	○	HT	—	EXISTING CONTOUR LINE

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 - ALL JOINTS OF SANITARY MANHOLES TO BE CAULKED WITH MIN. 15mm BEAD, INSTALLED ON THE TOP JOINT OF EACH SECTION PRIOR TO SECTION ABOVE BEING INSTALLED. CAULKING TO BE SIKAFLEX 1A OR APPROVED EQUIVALENT.
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PART 3, EXPROPRIATION PLAN No. 353462

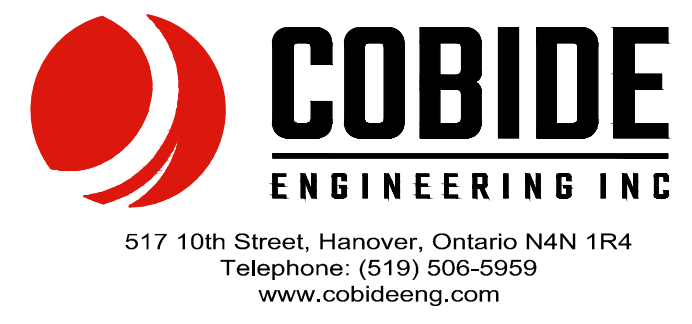


Benchmark Information

BM1
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ELEVATION 195.24m

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REVISION / ISSUE



**PROPOSED TOWNHOUSE DEVELOPMENT
PRETTY RIVER ESTATES
TOWN OF COLLINGWOOD
GENERAL SERVICING PLAN 1**

Client: **SUNVALE HOMES LTD.**

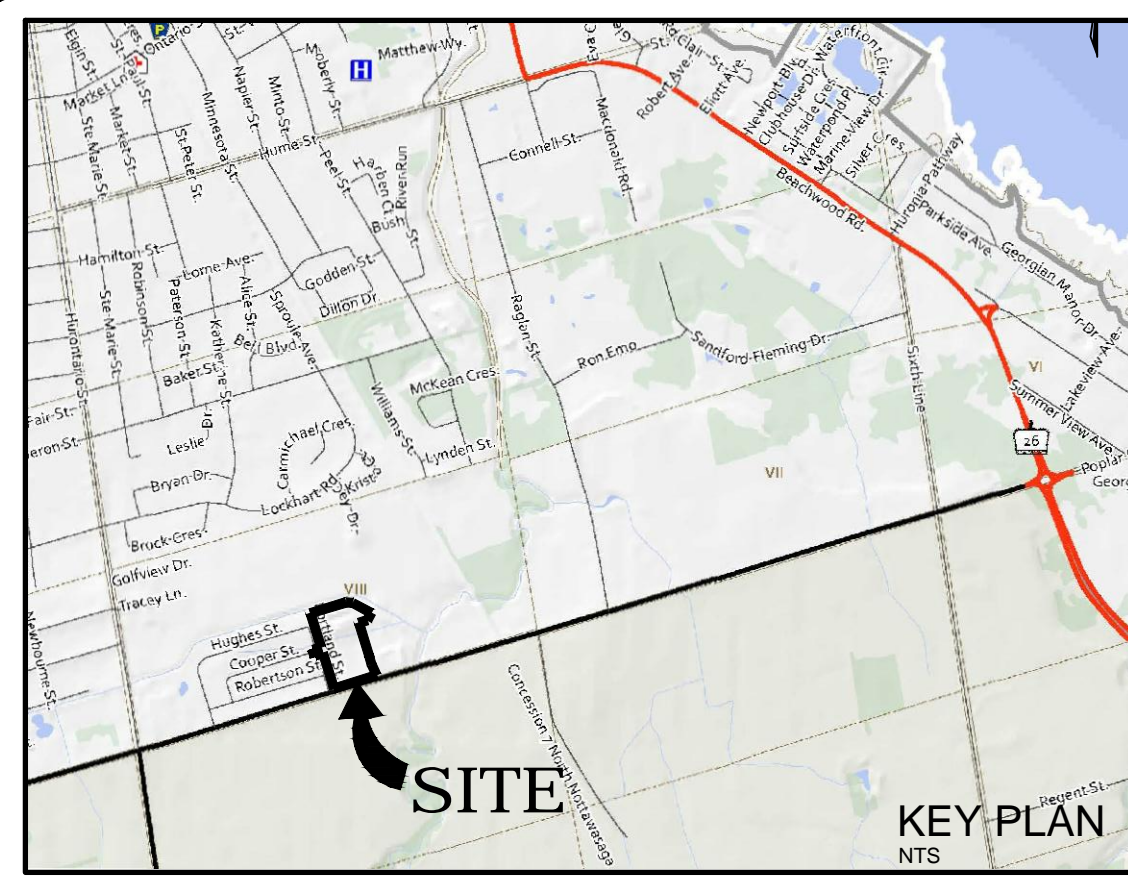
Design: TLB	Scale: 1:400
Drawn: JAF	Approved:
Checked: SJC	
Date: JUN 2021	Design Engineer

DRAWING No. 00703-SS1

ACCEPTED FOR CONSTRUCTION
Town of Collingwood

per _____
Date: _____

SEE CONTINUATION SHEET 00703-SS2



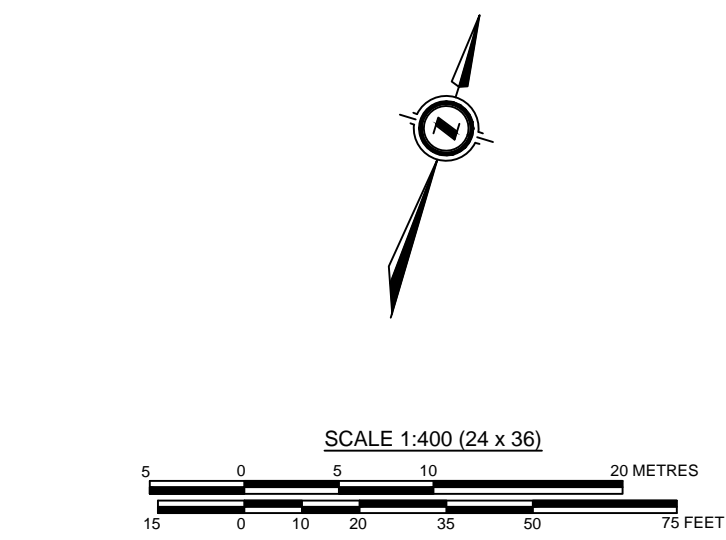
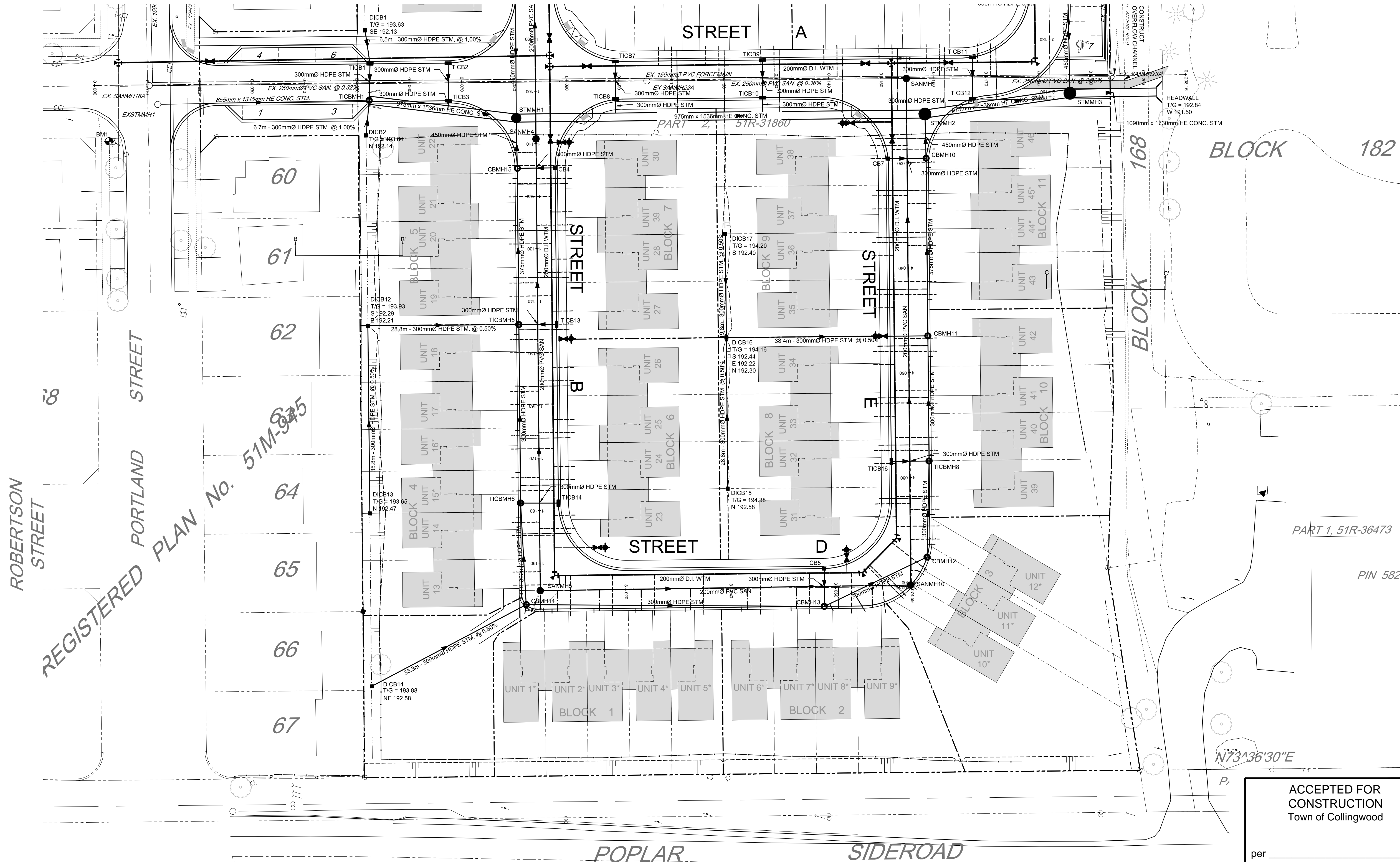
LEGEND

	PROPERTY BOUNDARY		PROPOSED TWIN INLET CATCHBASIN MANHOLE
	EDGE OF EXISTING PAVEMENT		PROPOSED TWIN INLET CATCHBASIN
	EDGE OF EXISTING GRAVEL		PROPOSED CATCH BASIN
	PROPOSED SANITARY SEWER		EXISTING CATCH BASIN
	EXISTING SANITARY SEWER		PROPOSED DITCH INLET CATCHBASIN
	PROPOSED STORM SEWER		PROPOSED HYDRANT SET
	EXISTING STORM SEWER		EXISTING FIRE HYDRANT
	PROPOSED SUBDRAIN		PROPOSED GATE VALVE
	EXISTING WATERMAIN		PROPOSED BEND c/w RESTRAINTS
	EXISTING WATERMAIN		PROPOSED TEE c/w RESTRAINTS
	PROPOSED SANITARY MANHOLE		PROPOSED CAP c/w THRUST BLOCK
	EXISTING SANITARY MANHOLE		PROPOSED BLOWOFF
	PROPOSED STORM MANHOLE		BENCHMARK
	EXISTING STORM MANHOLE		PROPOSED ELEVATION
	PROPOSED CATCHBASIN MANHOLE		EXISTING ELEVATION
			EXISTING CONTOUR LINE

CAUTION:
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- Notes**
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 - SEE SHEET 00703-DET1 FOR TYPICAL CROSS SECTION AND PAVEMENT DESIGN.
 - ALL ORGANIC MATERIAL WITHIN 1.2m OF FINISHED PROFILE GRADE TO BE REMOVED FROM ALL AREAS UNDER THE TRAVELLED PORTION OF THE ROAD, COVER OVER WATERMAIN 1.7m MINIMUM AT ALL POINTS.
 - SANITARY SEWER TO BE PVC SDR35.
 - ALL JOINTS OF SANITARY MANHOLES TO BE CAULKED WITH MIN. 15mm BEAD, INSTALLED ON THE TOP OF JOINT OF EACH SECTION PRIOR TO SECTION ABOVE BEING INSTALLED. CAULKING TO BE SIKAFLEX 1A OR APPROVED EQUIVALENT.
 - ALL HYDRANT SETS REQUIRE TEST POINT AND HYDRANT MARKER.
 - ALL STORM CATCHBASINS TO HAVE A MINIMUM SUMP OF 600mm AND ALL STORM MANHOLES TO HAVE A MINIMUM SUMP OF 300mm.
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 - ALL DITCH INLET CATCHBASINS TO HAVE HORIZONTAL HONEYCOMB GRATE PER C.P.S.D.403.010.
 - ALL CATCHBASIN MANHOLE STRUCTURES TO BE 1200mmØ UNLESS OTHERWISE SHOWN.
 - ALL WATERMANS TO BE DUCTILE IRON WITH 20mmØ COPPER WATER SERVICES.
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SEE CONTINUATION SHEET 00703-SS1



Benchmark Information

BM1
TOP NUT OF FIRE HYDRANT LOCATED ON THE SOUTH-WESTERLY CORNER OF THE INTERSECTION OF COOPER STREET AND PORTLAND STREET.
ELEVATION 195.24m

No.	DATE	DESCRIPTION	BY	APPD
1	MAY 2022	SECOND SUBMISSION	TLB	SJC
0	NOV 08/21	FOR PRE-CONSULTATION	TLB	SJC

REVISION / ISSUE



COBIDE ENGINEERING INC

517 10th Street, Hanover, Ontario N4N 1R4
Telephone: (519) 506-5959
www.cobideeng.com

File: PROPOSED TOWNHOUSE DEVELOPMENT
PRETTY RIVER ESTATES
TOWN OF COLLINGWOOD
GENERAL SERVICING PLAN 2

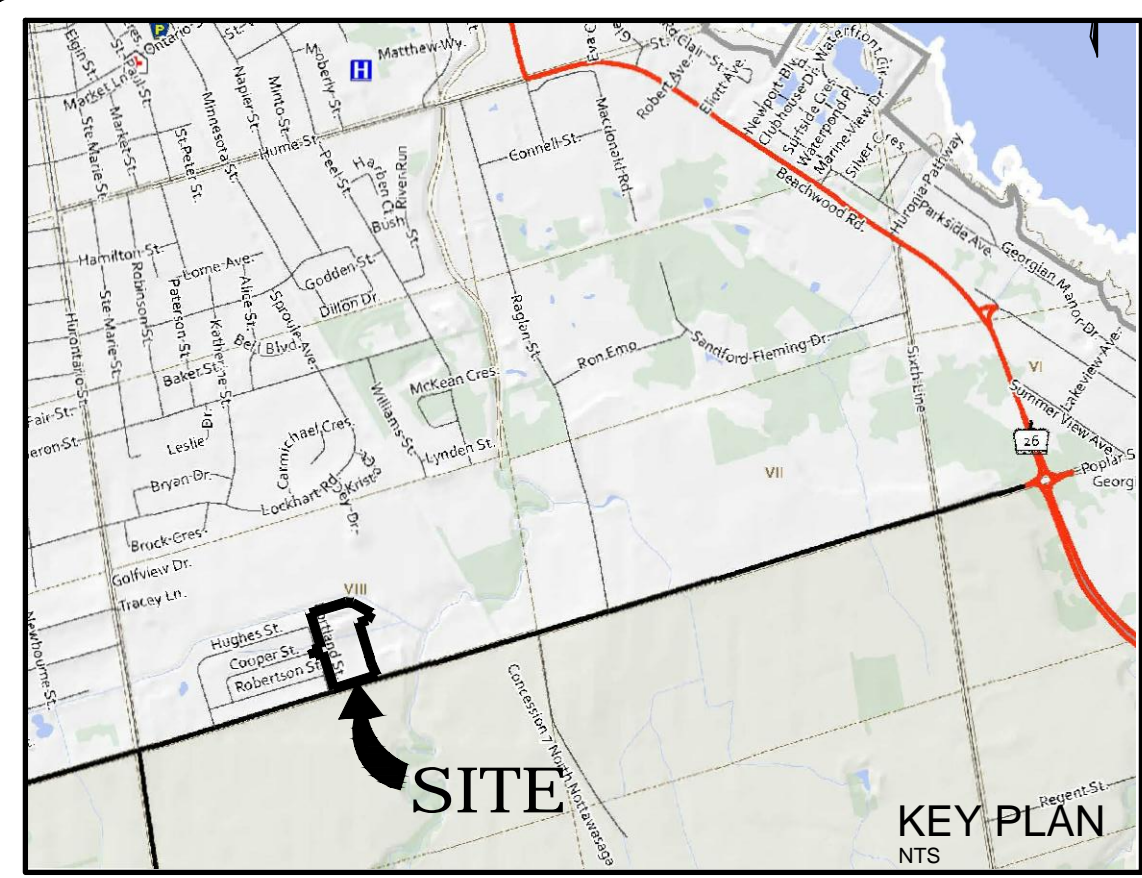
Client: SUNVALE HOMES LTD.

Design: TLB	Scale: 1:400
Drawn: JAF	Approved:
Checked: SJC	
Date: JUN 2021	Design Engineer

DRAWING No. 00703-SS2

ACCEPTED FOR CONSTRUCTION
Town of Collingwood

per _____
Date: _____

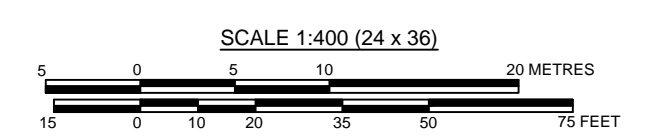
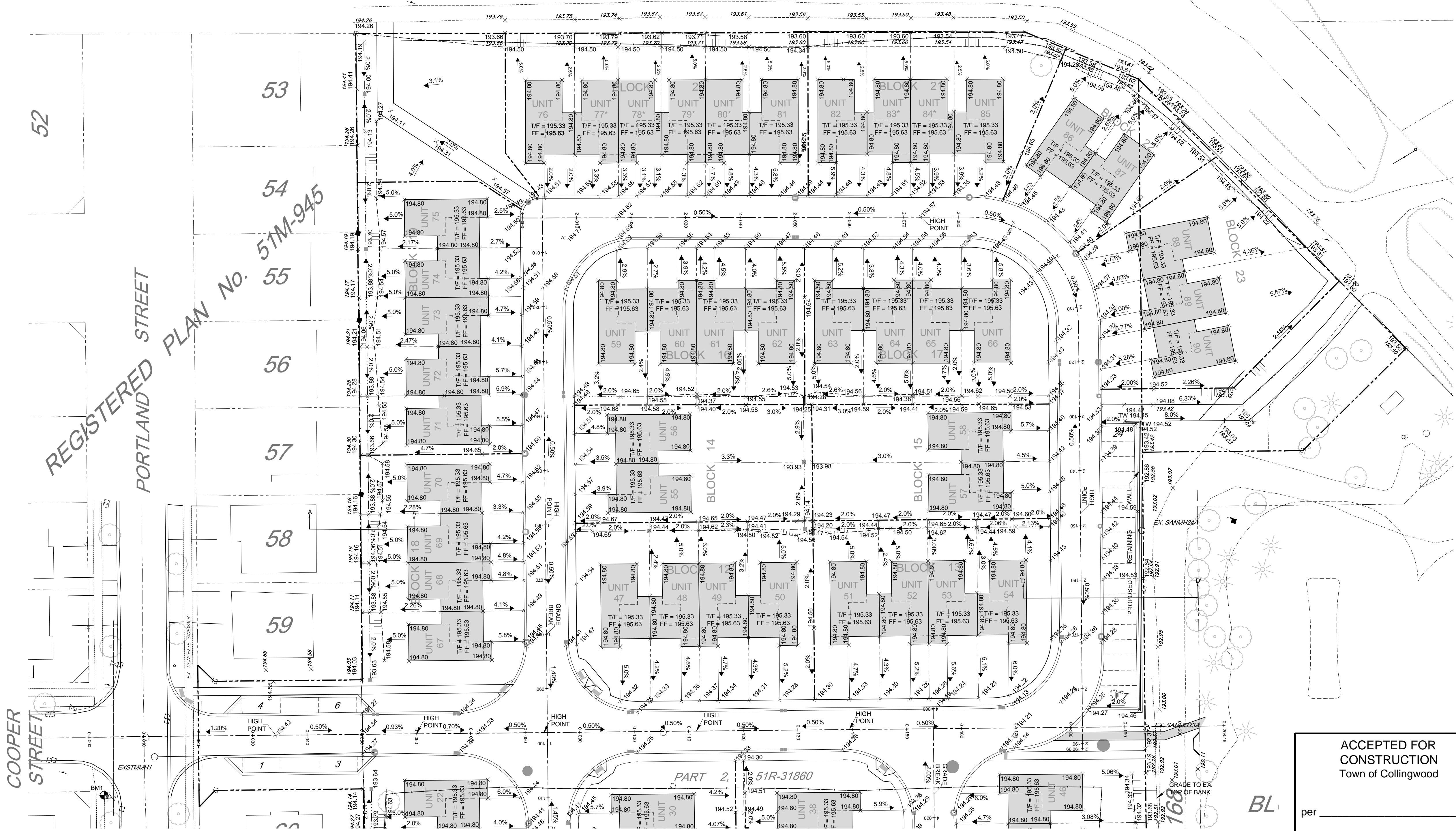


LEGEND	
---	PROPERTY BOUNDARY
---	PROPOSED EDGE OF PAVEMENT
○	PROPOSED STORM MANHOLE
□	PROPOSED CATCHBASIN MANHOLE
○	PROPOSED CATCH BASIN
□	EXISTING CATCH BASIN
○	PROPOSED DITCH INLET CATCHBASIN
---	PROPOSED GRADE
---	PROPOSED ELEVATION
---	EXISTING ELEVATION
---	PROPOSED SWALE & DIRECTION OF FLOW
---	PROPOSED GRADING MAX. 3:1

CAUTION:
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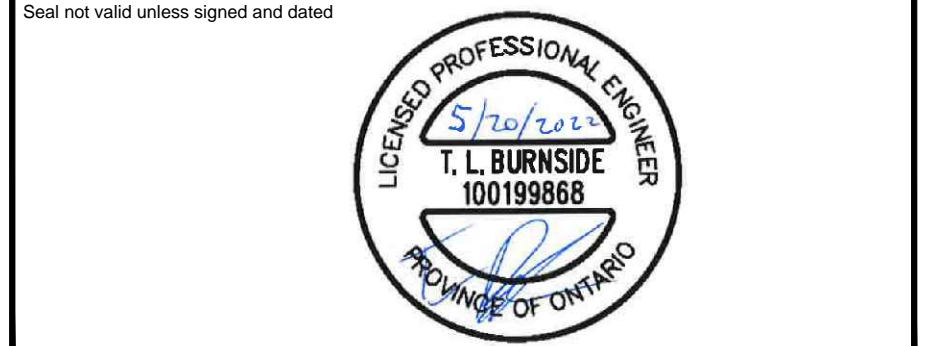
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PART 3, EXPROPRIATION PLAN No. 353462



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1	MAY 2022	SECOND SUBMISSION	TLB	SJC
0	NOV 08/21	FOR PRE-CONSULTATION	TLB	SJC



COBIDE ENGINEERING INC
517 10th Street, Hanover, Ontario N4N 1R4
Telephone: (519) 506-5959
www.cobideeng.com

**PROPOSED TOWNHOUSE DEVELOPMENT
PRETTY RIVER ESTATES
TOWN OF COLLINGWOOD
SITE GRADING PLAN 1**

Client: **SUNVALE HOMES LTD.**

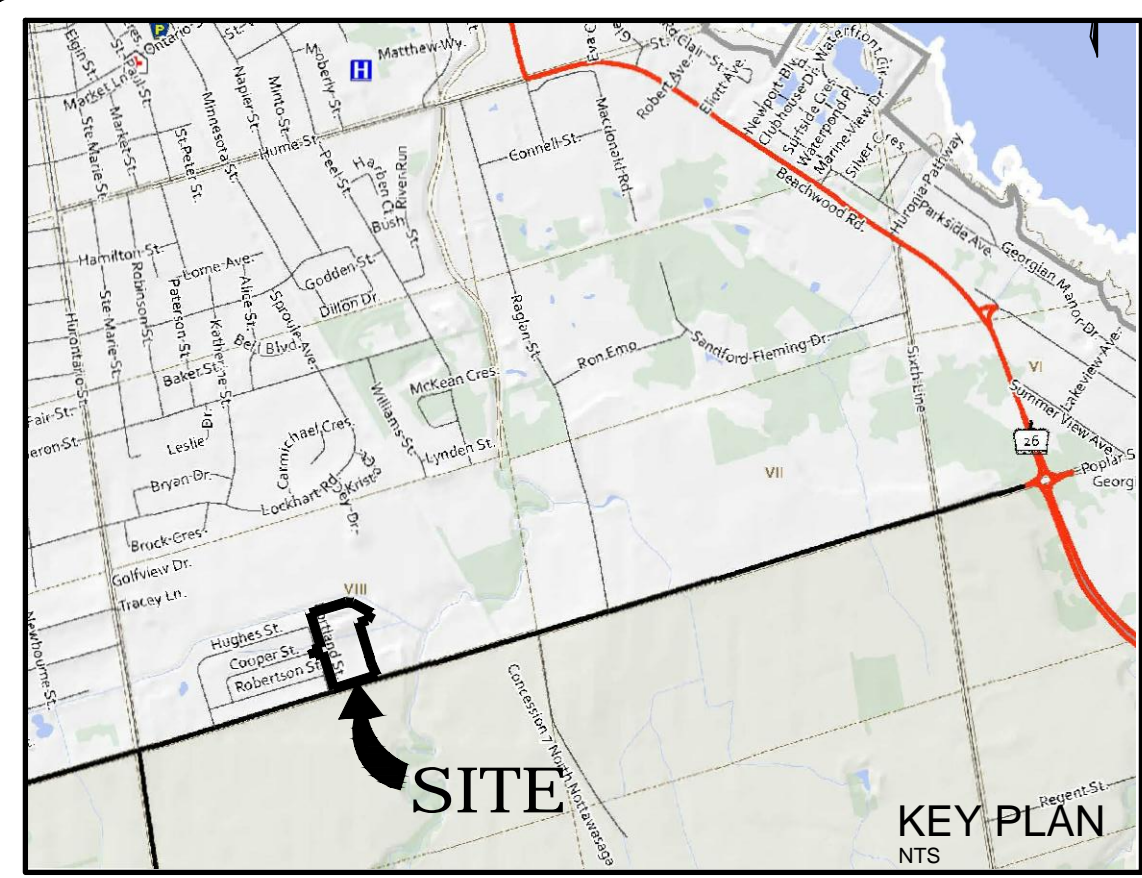
Design: TLB Scale: 1:400
Drawn: JAF Approved:
Checked: SJC
Date: JUN 2021 Design Engineer

DRAWING No. 00703-SG1

ACCEPTED FOR CONSTRUCTION
Town of Collingwood

per _____
Date: _____

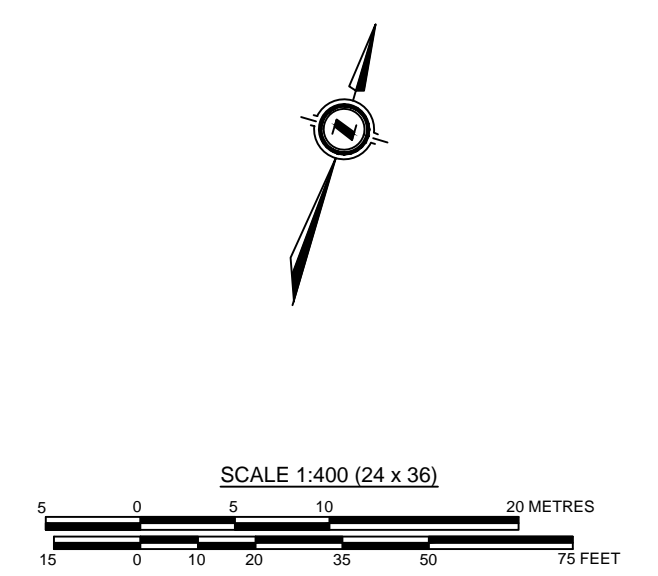
SEE CONTINUATION SHEET 00703-SG2



LEGEND	
	PROPERTY BOUNDARY
	PROPOSED EDGE OF PAVEMENT
	PROPOSED STORM MANHOLE
	PROPOSED CATCH-BASIN MANHOLE
	PROPOSED CATCH BASIN
	EXISTING CATCH BASIN
	PROPOSED DITCH INLET CATCHBASIN
	PROPOSED GRADE
	PROPOSED ELEVATION
	EXISTING ELEVATION
	PROPOSED SWALE & DIRECTION OF FLOW
	PROPOSED GRADING MAX. 3:1

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No.	DATE	DESCRIPTION	BY	APPD
1	MAY 2022	SECOND SUBMISSION	TLB	SJC
0	NOV 08/21	FOR PRE-CONSULTATION	TLB	SJC

REVISION / ISSUE



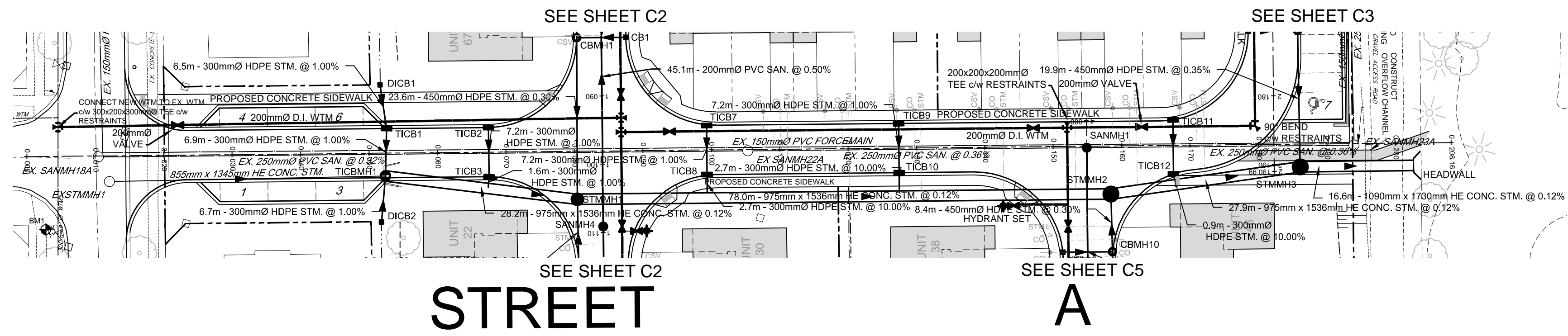
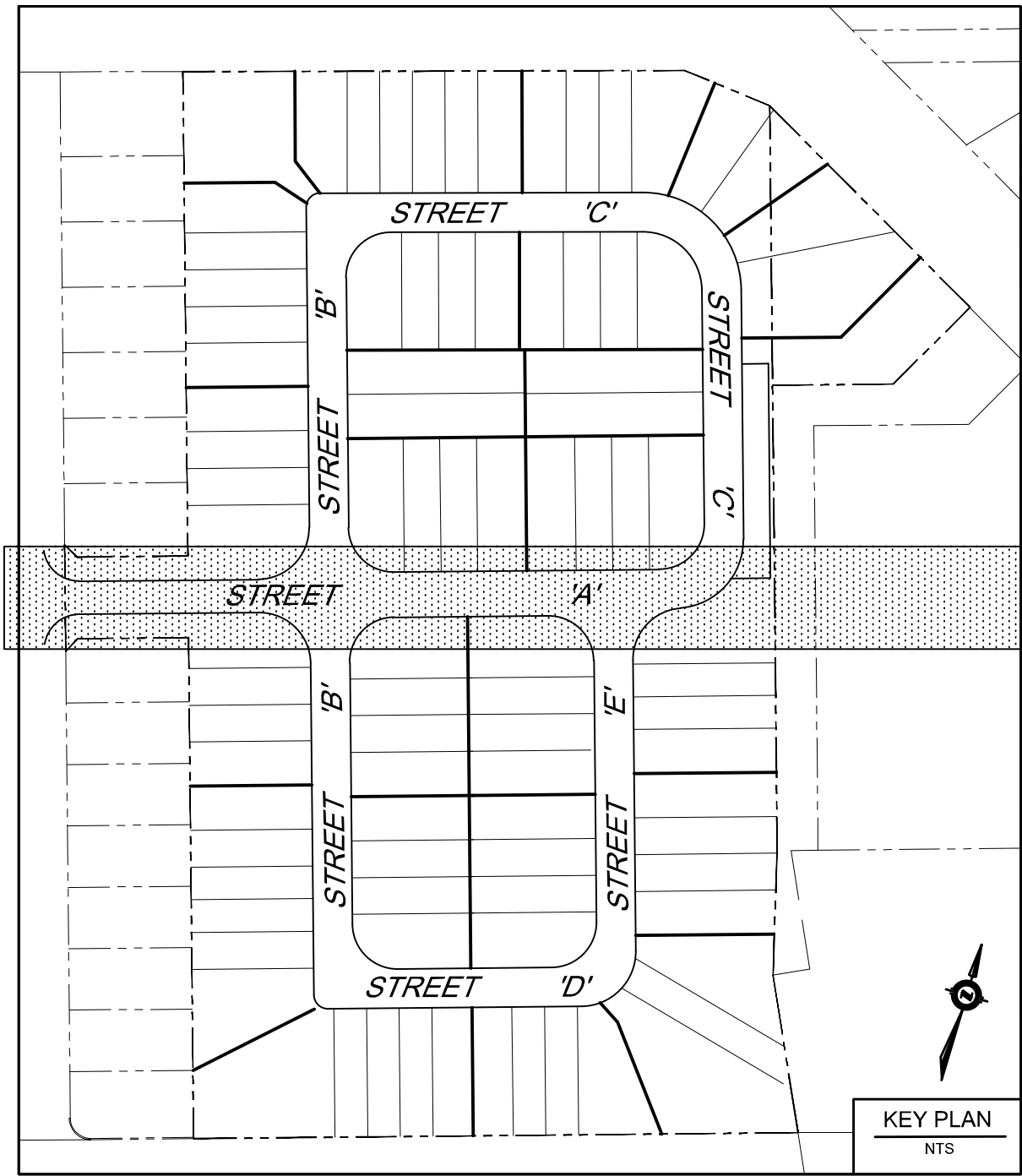
COBIDE ENGINEERING INC
 517 10th Street, Hanover, Ontario N4N 1R4
 Telephone: (519) 506-5959
 www.cobideeng.com

PROPOSED TOWNHOUSE DEVELOPMENT
 PRETTY RIVER ESTATES
 TOWN OF COLLINGWOOD
 SITE GRADING PLAN 2

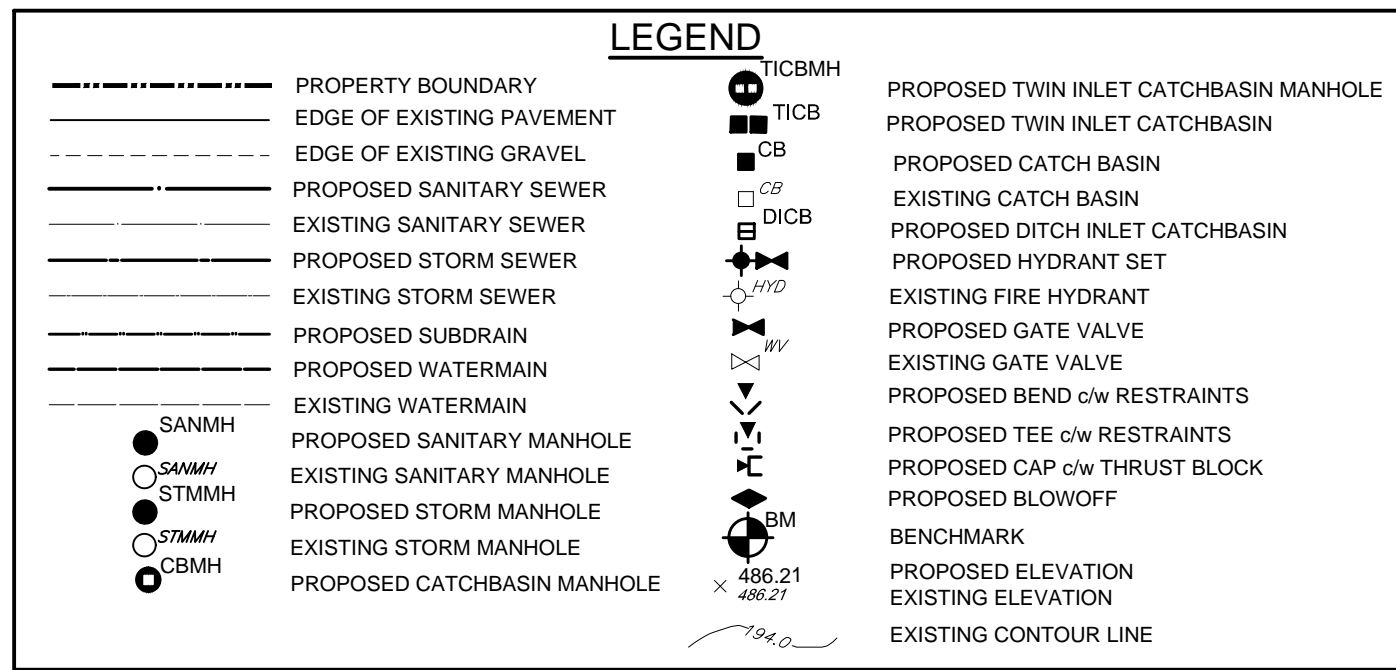
Client:	SUNVALE HOMES LTD.	
Design:	TLB	Scale: 1:400
Drawn:	JAF	Approved:
Checked:	SJC	
Date:	JUN 2021	Design Engineer
Drawing No.	00703-SG2	

ACCEPTED FOR CONSTRUCTION
 Town of Collingwood

per _____
 Date: _____



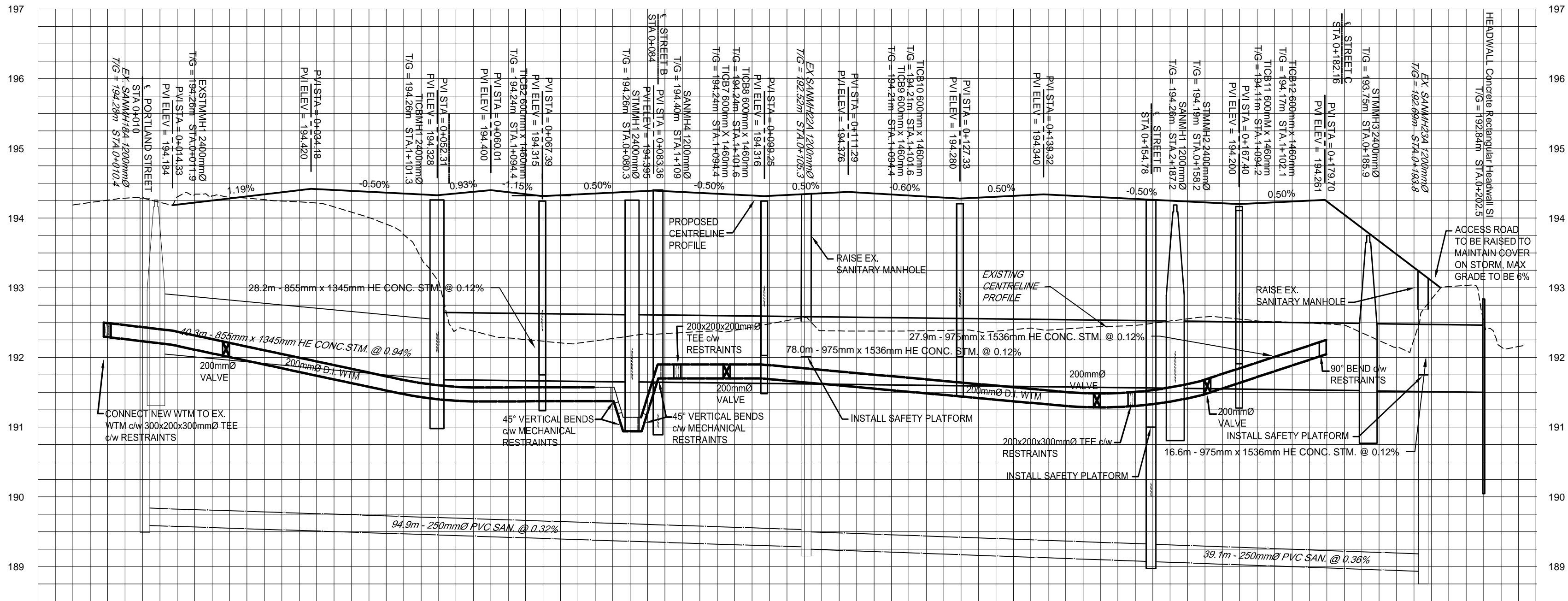
SEE SHEET C2
SEE SHEET C3
SEE SHEET C2
SEE SHEET C5
STREET
A



MAINTAIN MIN. 2.5m HORIZONTAL SEPARATION DISTANCE AND 0.5m VERTICAL SEPARATION DISTANCE BETWEEN WATERMAIN AND SANITARY/STORM SEWERS INCLUDING ALL CATCHBASIN LEADS EQUAL TO OR GREATER THAN 250mm IN DIAMETER

GEOTEXTILE CLOTH TO BE INSTALLED UNDER ALL CB AND CBMH GRATES AND TO REMAIN IN PLACE UNTIL ROAD PAVING IS COMPLETED

Proposed Elevation	Existing Elevation	Street Centreline
194.25	194.25	194.25
194.24	194.24	194.24
194.23	194.23	194.23
194.22	194.22	194.22
194.21	194.21	194.21
194.20	194.20	194.20
194.19	194.19	194.19
194.18	194.18	194.18
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194.16	194.16	194.16
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194.12	194.12	194.12
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194.09	194.09	194.09
194.08	194.08	194.08
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194.06	194.06	194.06
194.05	194.05	194.05
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193.02	193.02	193.02
193.01	193.01	193.01
193.00	193.00	193.00



Station	Storm Invert	Sanitary Invert
0+000		
0+020		
0+040		
0+060		
0+080		
0+100		
0+120		
0+140		
0+160		
0+180		
0+200		
0+208.16		

ACCEPTED FOR CONSTRUCTION
Town of Collingwood

per _____
Date: _____

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Benchmark Information

BM1
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ELEVATION 195.24m

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1	MAY 2022	SECOND SUBMISSION	TLB	SJC
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REVISION / ISSUE

Seal not valid unless signed and dated

COBIDE
ENGINEERING INC

517 10th Street, Hanover, Ontario N4N 1R4
Telephone: (519) 506-5959
www.cobideeng.com

Title: PROPOSED TOWNHOUSE DEVELOPMENT
PRETTY RIVER ESTATES
TOWN OF COLLINGWOOD
STREET A PLAN AND PROFILE
STA 0+000 TO STA 0+208.16

Client: SUNVALE HOMES LTD.

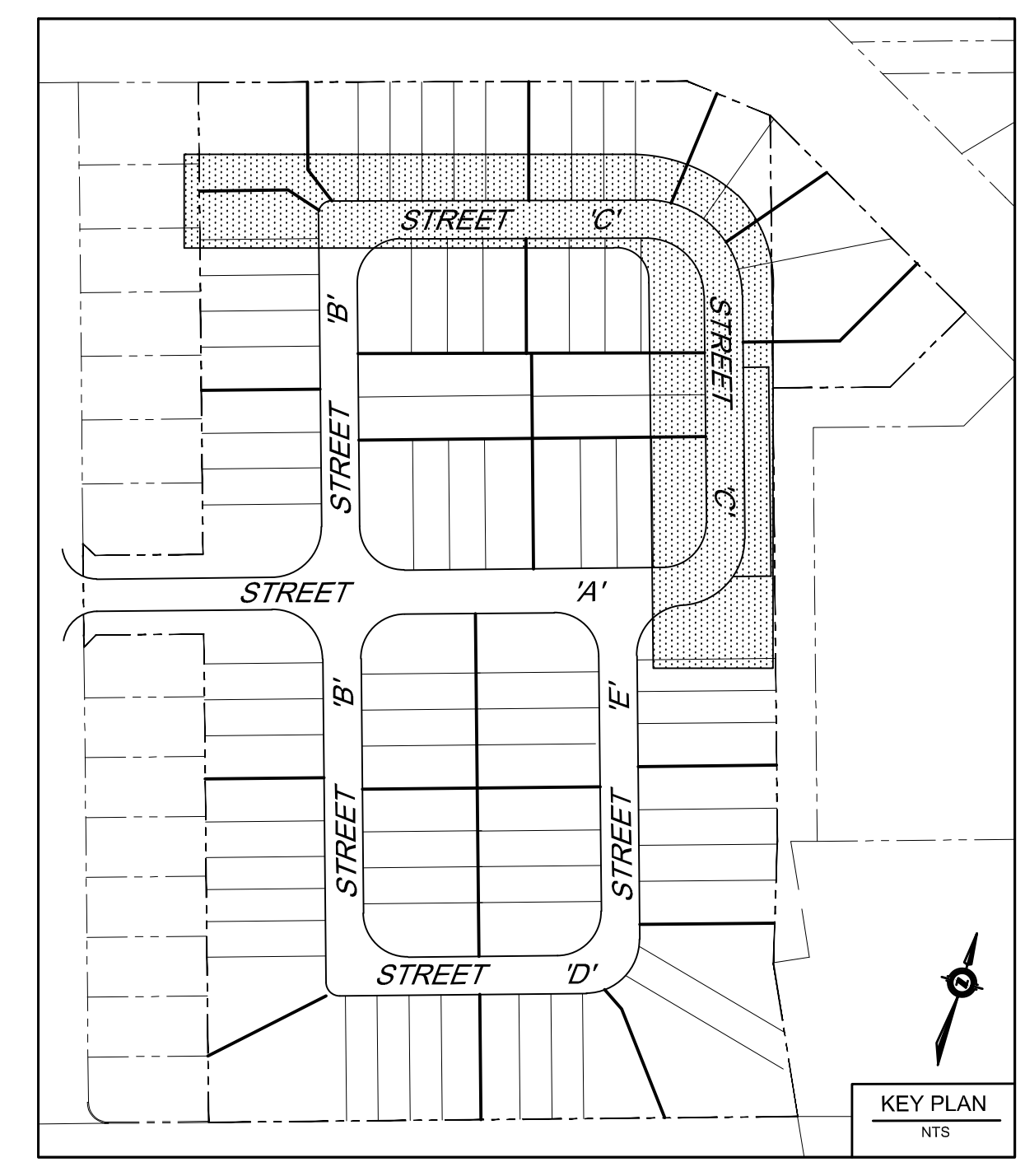
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Drawn: JAF Approved:
Checked: SJC
Date: JUN 2021 Design Engineer

DRAWING No. 00703-C2

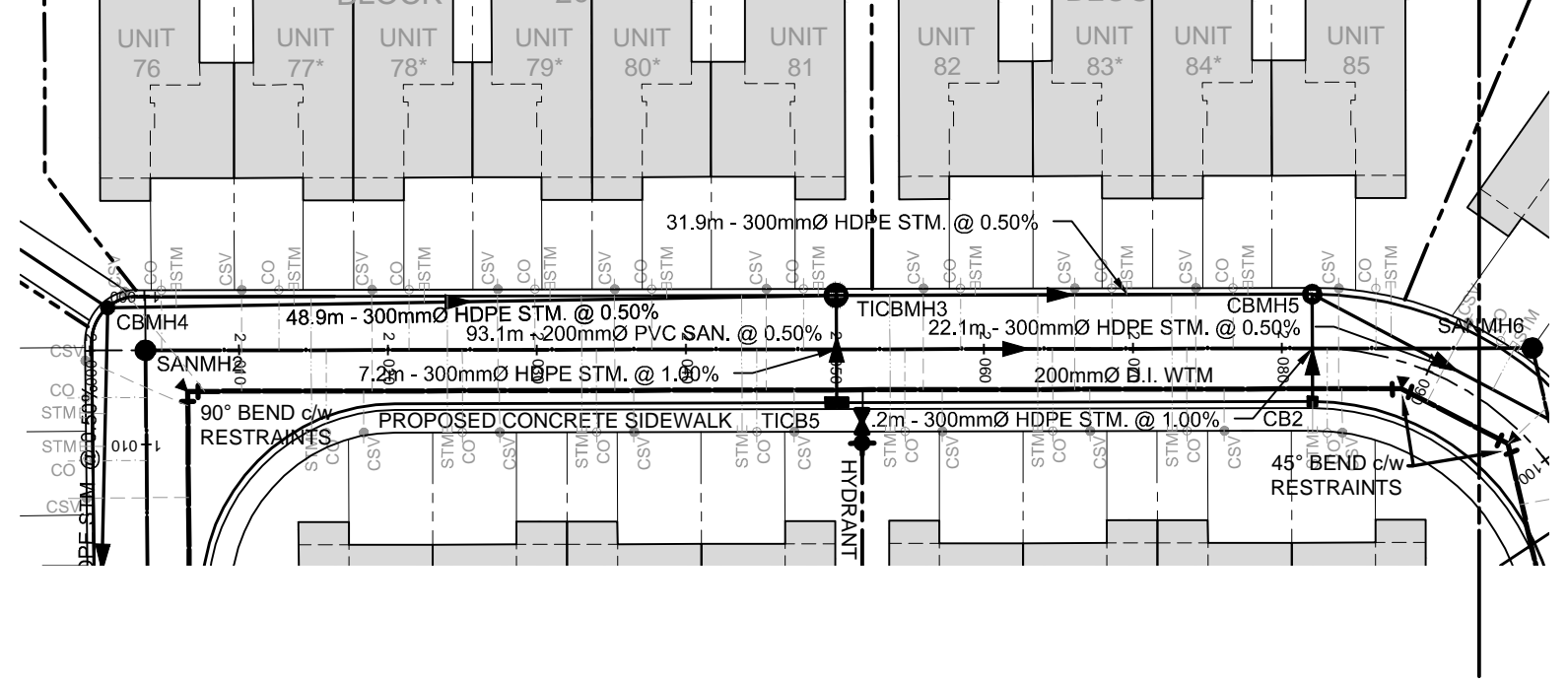
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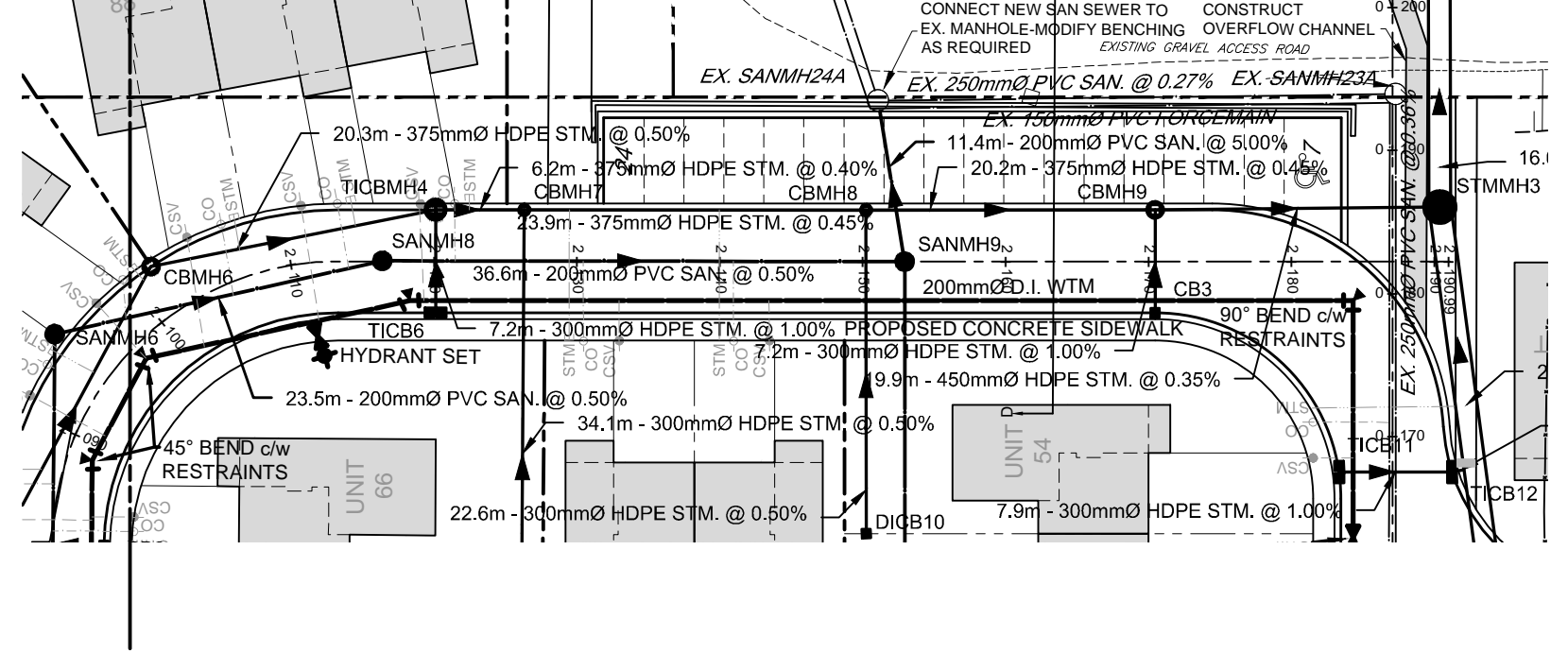
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- ALL ORGANIC MATERIAL WITHIN 1.2m OF FINISHED PROFILE GRADE TO BE REMOVED FROM ALL AREAS UNDER THE TRAVELLED PORTION OF THE ROAD.
- COVER OVER WATERMAIN 1.7m MINIMUM AT ALL POINTS.
- SANITARY SEWER TO BE PVC SDR35.
- ALL JOINTS OF SANITARY MANHOLES TO BE CAULKED WITH MIN. 15mm BEAD, INSTALLED ON THE TOP OF JOINT OF EACH SECTION PRIOR TO SECTION ABOVE BEING INSTALLED. CAULKING TO BE SIKAFLEX 1A OR APPROVED EQUIVALENT.
- ALL HYDRANT SETS REQUIRE TEST POINT AND HYDRANT MARKER.
- ALL STORM CATCHBASINS TO HAVE A MINIMUM SUMP OF 600mm AND ALL STORM MANHOLES TO HAVE A MINIMUM SUMP OF 300mm.
- STORM SEWERS TO BE PERFORATED HDPE IN 50mm ϕ WASHED CLEAR STONE WRAPPED IN NON-WOVEN GEOTEXTILE EXCEPT 3m ENTERING AND EXITING STORM STRUCTURES WHICH IS TO BE SOLID PIPE. SEE DETAIL SHEET 00614-DET1.
- ALL DITCH INLET CATCHBASINS TO HAVE HORIZONTAL HONEYCOMB GRATE PER O.P.S.D.403.010.
- ALL CATCHBASIN MANHOLE STRUCTURES TO BE 1200mm ϕ UNLESS OTHERWISE SHOWN.
- ALL WATERMANS TO BE DUCTILE IRON WITH 20mm ϕ COPPER WATER SERVICES.
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STREET C



STREET C

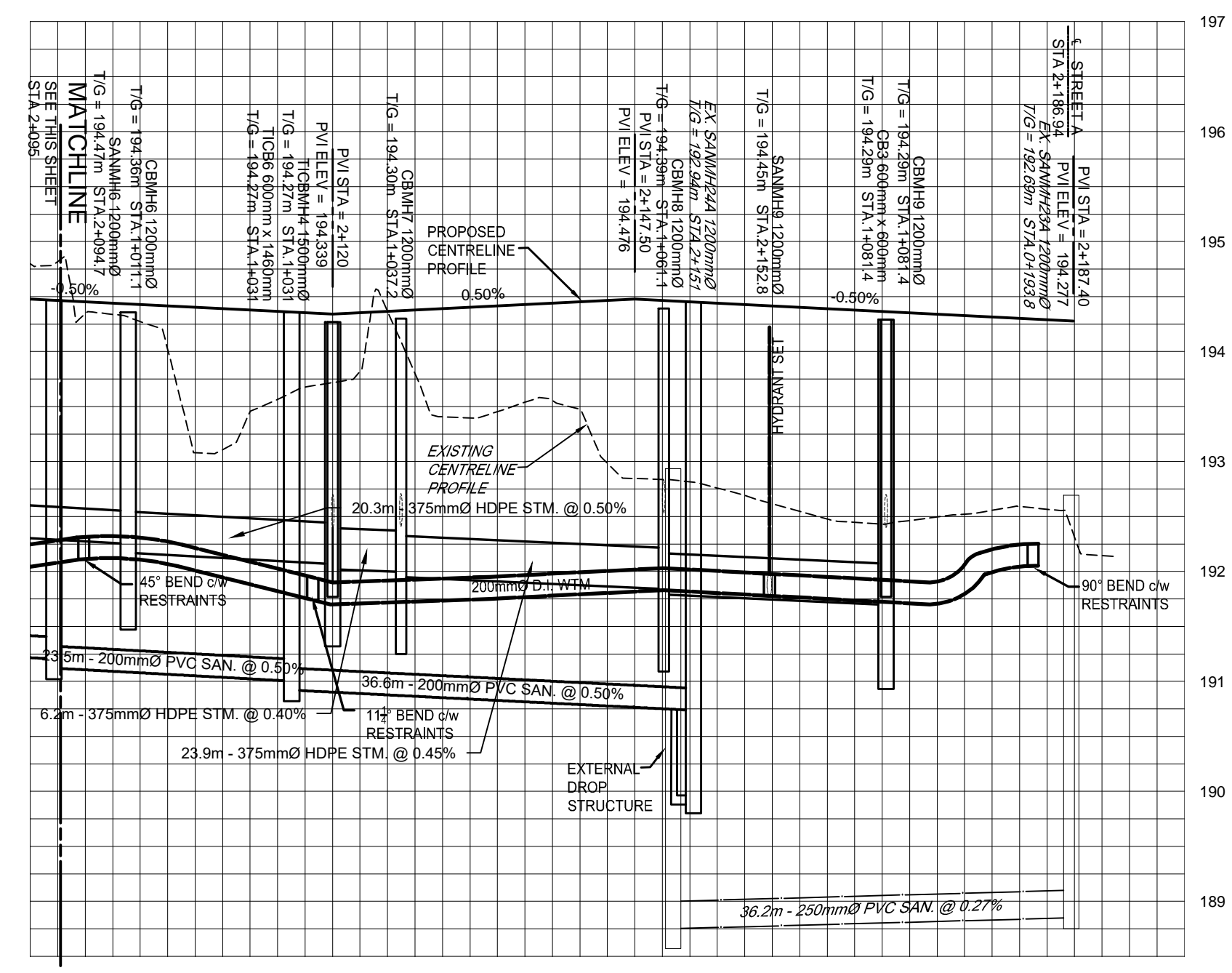
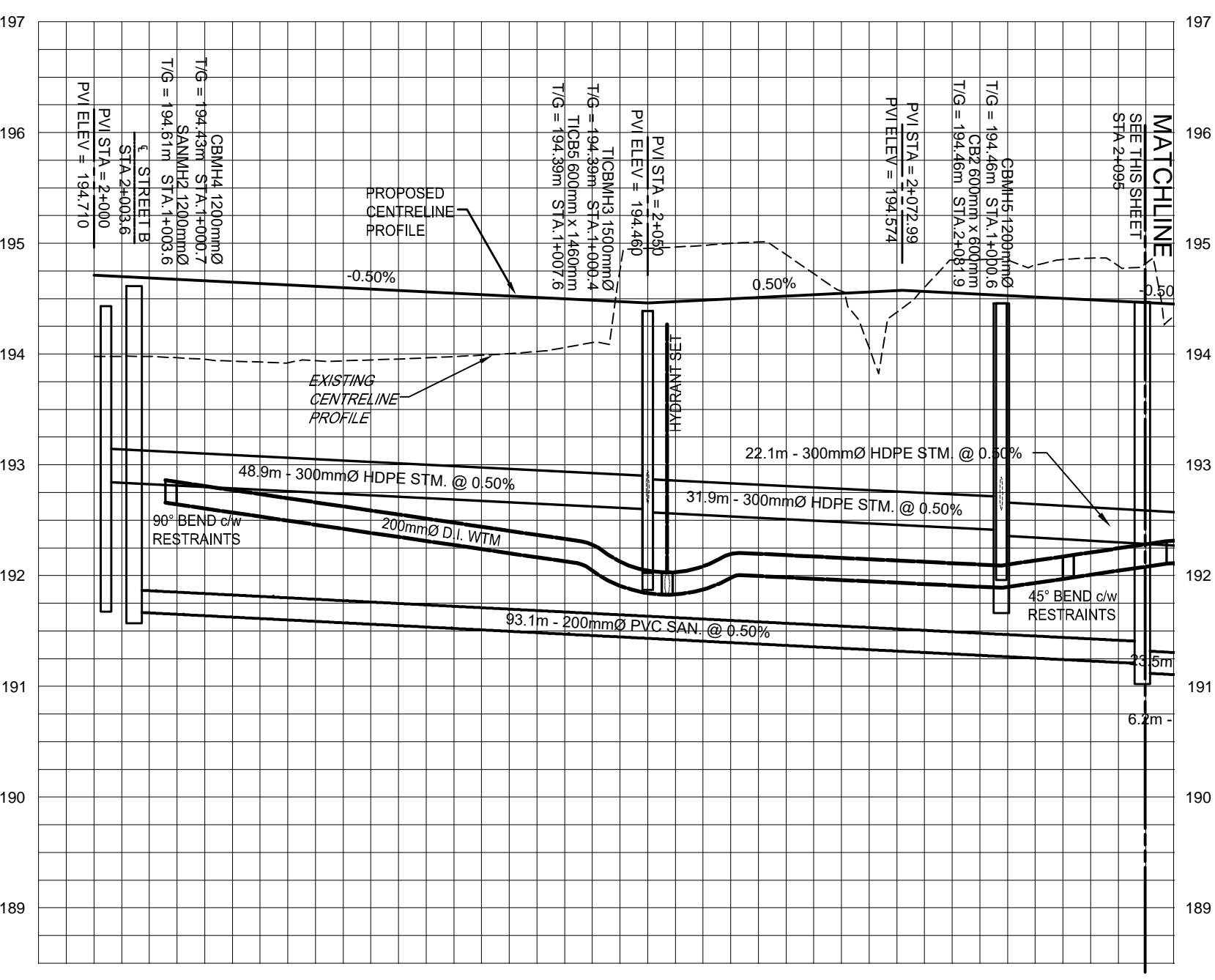


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GEOTEXTILE CLOTH TO BE INSTALLED UNDER ALL CB AND CBMH GRATES AND TO REMAIN IN PLACE UNTIL ROAD PAVING IS COMPLETED

Proposed Elevation	Existing Elevation	Street Centreline
194.45	194.44	
194.46	194.42	
194.48	194.40	
194.49	194.45	
194.50	194.45	
194.51	194.45	
194.52	194.45	
194.53	194.45	
194.54	194.45	
194.55	194.45	
194.56	194.45	
194.57	194.45	
194.58	194.45	
194.59	194.45	
194.60	194.45	
194.61	194.45	
194.62	194.45	
194.63	194.45	
194.64	194.45	
194.65	194.45	
194.66	194.45	
194.67	194.45	
194.68	194.45	
194.69	194.45	
194.70	194.45	
194.71	194.45	

Proposed Elevation	Existing Elevation	Street Centreline
194.72	194.45	
194.73	194.45	
194.74	194.45	
194.75	194.45	
194.76	194.45	
194.77	194.45	
194.78	194.45	
194.79	194.45	
194.80	194.45	
194.81	194.45	
194.82	194.45	
194.83	194.45	
194.84	194.45	
194.85	194.45	
194.86	194.45	
194.87	194.45	
194.88	194.45	
194.89	194.45	
194.90	194.45	
194.91	194.45	
194.92	194.45	
194.93	194.45	
194.94	194.45	
194.95	194.45	
194.96	194.45	
194.97	194.45	
194.98	194.45	
194.99	194.45	



LEGEND

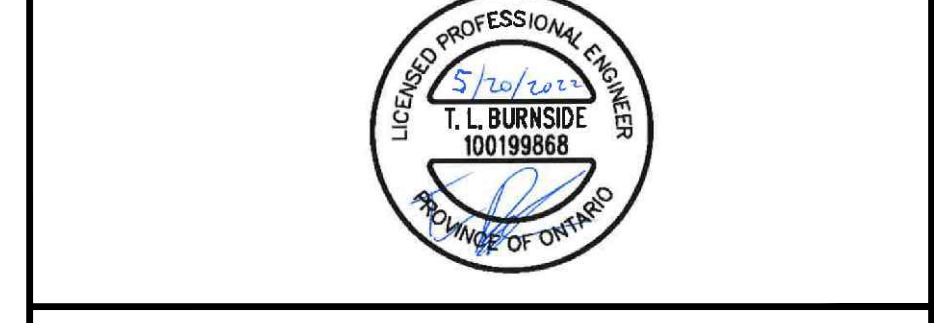
- PROPERTY BOUNDARY
- EDGE OF EXISTING PAVEMENT
- EDGE OF EXISTING GRAVEL
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- PROPOSED SUBDRAIN
- PROPOSED WATERMAIN
- EXISTING WATERMAIN
- PROPOSED SANITARY MANHOLE
- EXISTING SANITARY MANHOLE
- PROPOSED STORM MANHOLE
- EXISTING STORM MANHOLE
- PROPOSED CATCHBASIN MANHOLE
- EXISTING CATCHBASIN MANHOLE
- PROPOSED TWIN INLET CATCHBASIN MANHOLE
- PROPOSED TWIN INLET CATCHBASIN
- PROPOSED CATCH BASIN
- EXISTING CATCH BASIN
- PROPOSED DITCH INLET CATCHBASIN
- PROPOSED HYDRANT SET
- EXISTING FIRE HYDRANT
- PROPOSED GATE VALVE
- EXISTING GATE VALVE
- PROPOSED BEND c/w RESTRAINTS
- PROPOSED CAP c/w THRUST BLOCK
- PROPOSED BLOWOFF
- BENCHMARK
- PROPOSED ELEVATION
- EXISTING ELEVATION
- EXISTING CONTOUR LINE

Benchmark Information

BM1
TOP NUT OF FIRE HYDRANT LOCATED ON THE SOUTH-WESTERLY CORNER OF THE INTERSECTION OF COOPER STREET AND PORTLAND STREET.
ELEVATION 195.24m

No.	DATE	DESCRIPTION	BY	APPD
1	MAY 2022	SECOND SUBMISSION	TLB	SJC
0	NOV 08/21	FOR PRE-CONSULTATION	TLB	SJC

REVISION / ISSUE



COBIDE ENGINEERING INC

517 10th Street, Hanover, Ontario N4N 1R4
Telephone: (519) 506-5959
www.cobideeng.com

**PROPOSED TOWNHOUSE DEVELOPMENT
PRETTY RIVER ESTATES
TOWN OF COLLINGWOOD
STREET C PLAN AND PROFILE
STA 2+000 TO STA 2+190.99**

Client: **SUNVALE HOMES LTD.**

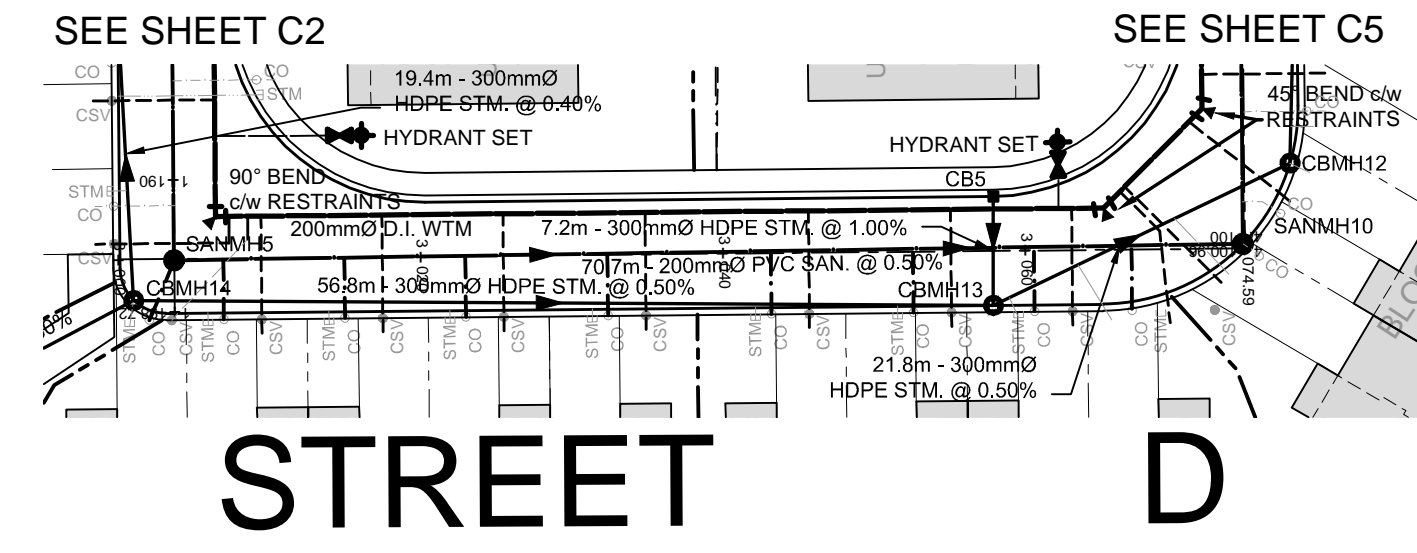
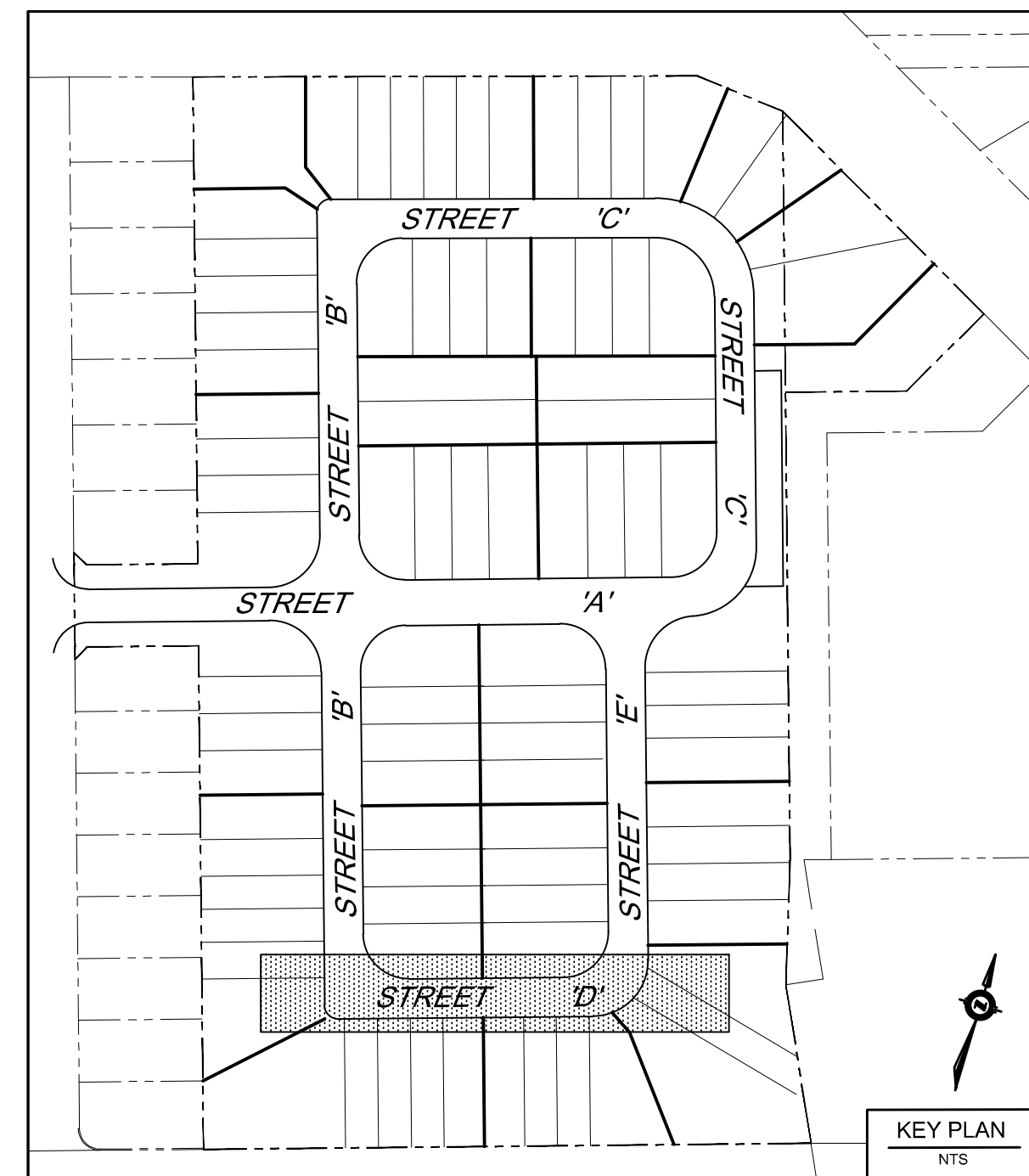
Design:	TLB	Scale:	H 1:500 V 1:50
Drawn:	JAF	Approved:	
Checked:	SJC		
Date:	JUN 2021		
DRAWING No.	00703-C3	Design Engineer	

ACCEPTED FOR CONSTRUCTION
Town of Collingwood

per _____
Date: _____

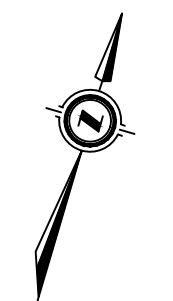
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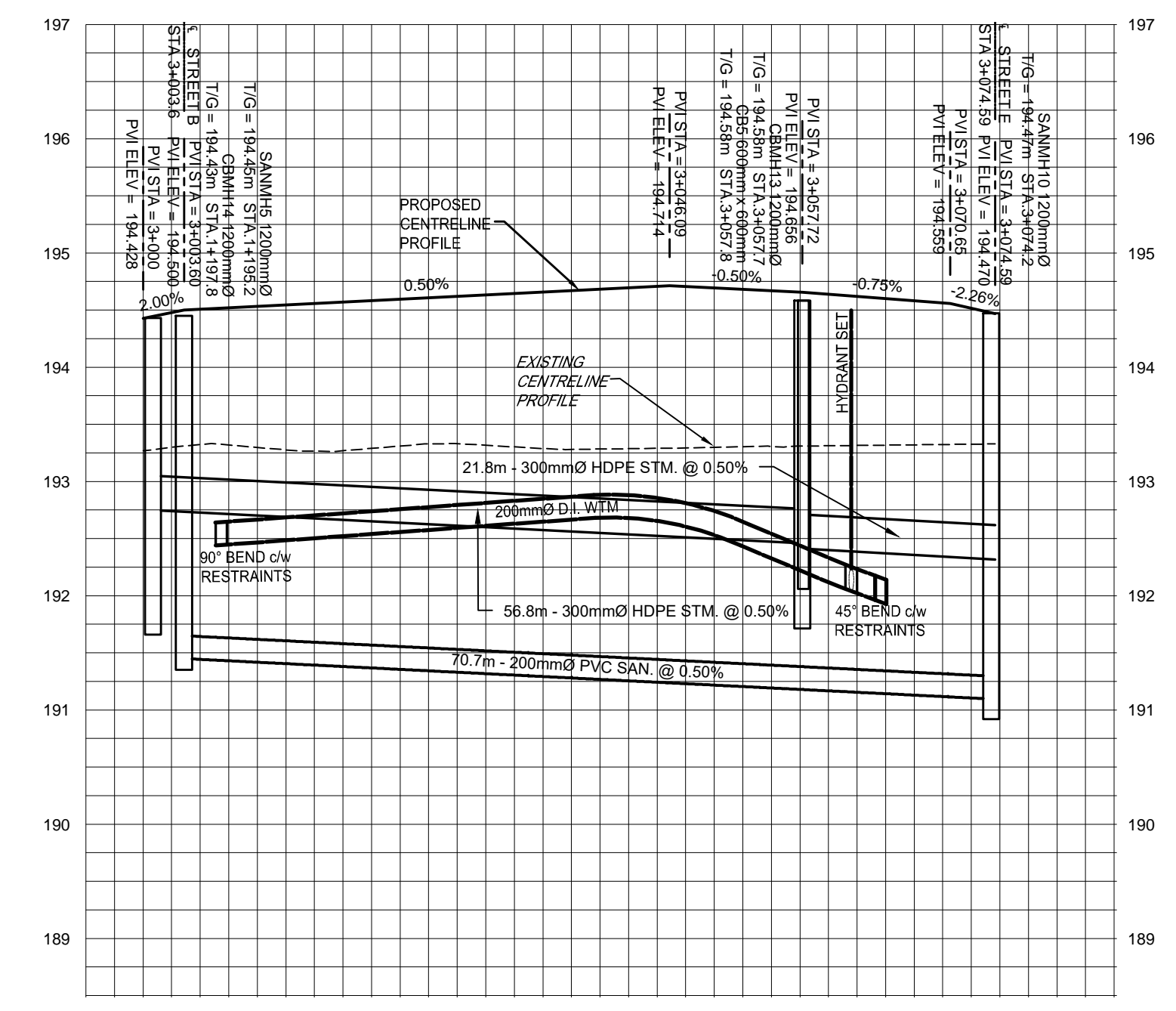


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Proposed Existing Street Centreline	Proposed Existing Street Centreline
194.52	194.33
194.50	194.32
194.49	194.32
194.48	194.32
194.47	194.32
194.46	194.32
194.45	194.32
194.44	194.32
194.43	194.32
194.42	194.32
194.41	194.32
194.40	194.32
194.39	194.32
194.38	194.32
194.37	194.32
194.36	194.32
194.35	194.32
194.34	194.32
194.33	194.32
194.32	194.32
194.31	194.32
194.30	194.32
194.29	194.32
194.28	194.32
194.27	194.32
194.26	194.32
194.25	194.32
194.24	194.32
194.23	194.32
194.22	194.32
194.21	194.32
194.20	194.32
194.19	194.32
194.18	194.32
194.17	194.32
194.16	194.32
194.15	194.32
194.14	194.32
194.13	194.32
194.12	194.32
194.11	194.32
194.10	194.32
194.09	194.32
194.08	194.32
194.07	194.32
194.06	194.32
194.05	194.32
194.04	194.32
194.03	194.32
194.02	194.32
194.01	194.32
194.00	194.32



Station	Storm Invert	Sanitary Invert
3+000	CBMH14 N 192.36 W 192.46 S 192.76	SANMH5 N 194.45 E 194.45
3+020		
3+040		
3+060	CBMH13 N 192.69 W 192.46 S 192.76	SANMH10 N 191.02
3+080		

LEGEND

<ul style="list-style-type: none"> PROPERTY BOUNDARY EDGE OF EXISTING PAVEMENT EDGE OF EXISTING GRAVEL PROPOSED SANITARY SEWER EXISTING SANITARY SEWER PROPOSED STORM SEWER EXISTING STORM SEWER PROPOSED SUBDRAIN PROPOSED WATERMAIN EXISTING WATERMAIN PROPOSED SANITARY MANHOLE EXISTING SANITARY MANHOLE PROPOSED STORM MANHOLE EXISTING STORM MANHOLE PROPOSED CATCHBASIN MANHOLE 	<ul style="list-style-type: none"> PROPOSED TWIN INLET CATCHBASIN MANHOLE PROPOSED TWIN INLET CATCHBASIN PROPOSED CATCH BASIN EXISTING CATCH BASIN PROPOSED DITCH INLET CATCHBASIN PROPOSED HYDRANT SET EXISTING FIRE HYDRANT PROPOSED GATE VALVE EXISTING GATE VALVE PROPOSED BEND c/w RESTRAINTS PROPOSED TEE c/w RESTRAINTS PROPOSED CAP c/w THRUST BLOCK PROPOSED BLOWOFF BENCHMARK PROPOSED ELEVATION EXISTING ELEVATION EXISTING CONTOUR LINE
---	--

Benchmark Information

BM1
TOP NUT OF FIRE HYDRANT LOCATED ON THE SOUTH-WESTERLY CORNER OF THE INTERSECTION OF COOPER STREET AND PORTLAND STREET.
ELEVATION 195.24m

No.	DATE	DESCRIPTION	BY	APPD
1	MAY 2022	SECOND SUBMISSION	TLB	SJC
0	NOV 08/21	FOR PRE-CONSULTATION	TLB	SJC

REVISION / ISSUE

Seal not valid unless signed and dated

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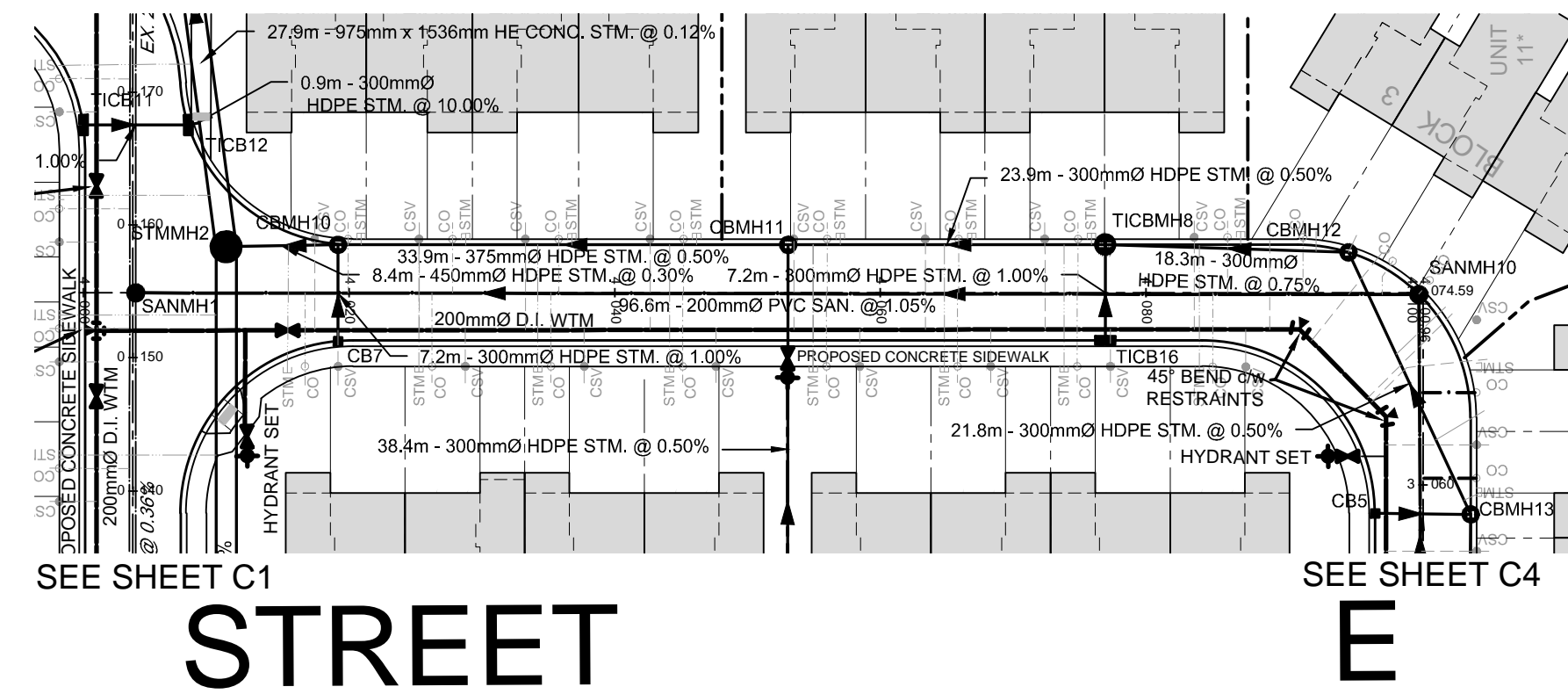
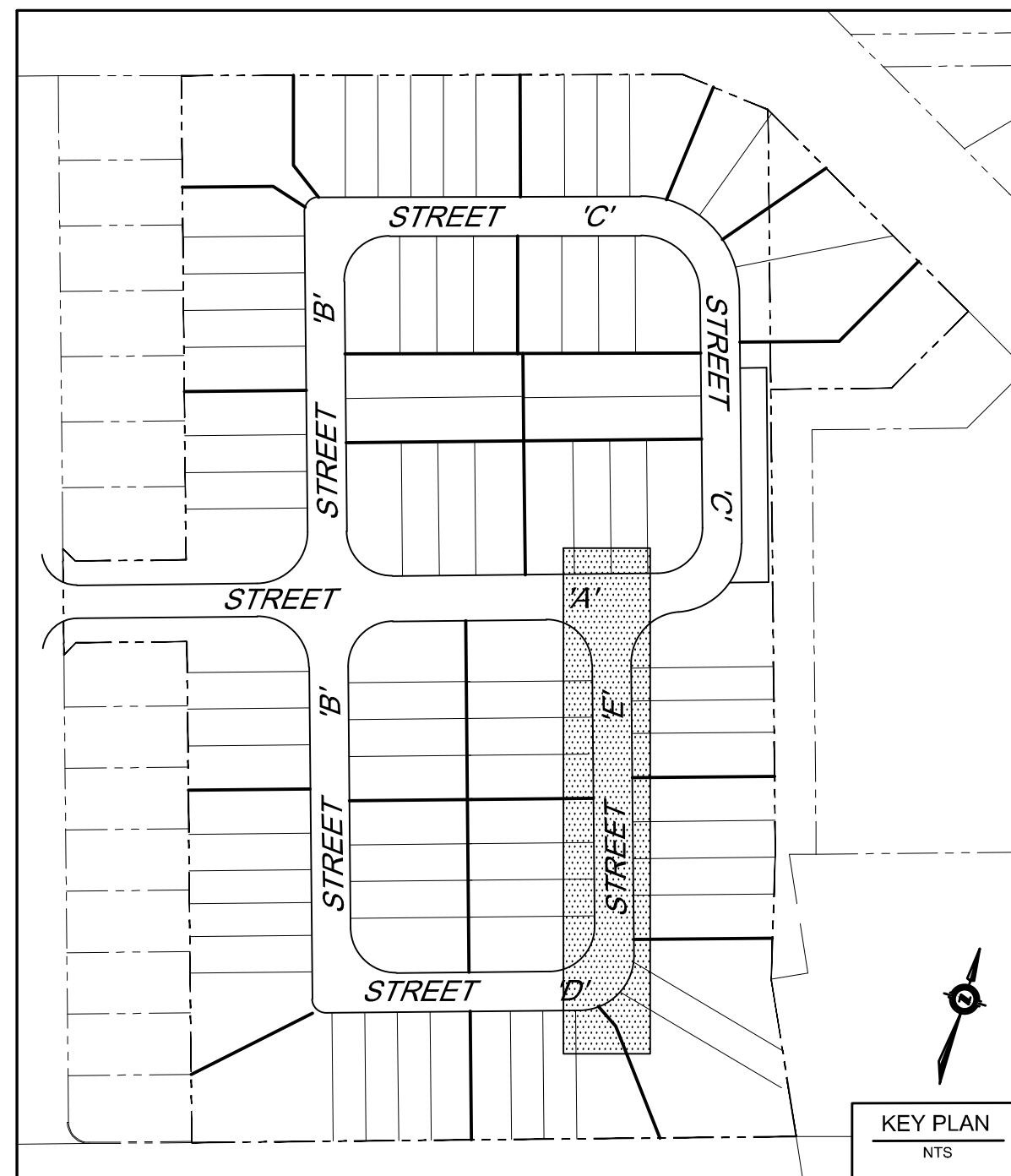
PROPOSED TOWNHOUSE DEVELOPMENT
PRETTY RIVER ESTATES
TOWN OF COLLINGWOOD
STREET D PLAN AND PROFILE
STA 3+000 TO STA 3+074.59

Client: **SUNVALE HOMES LTD.**

Design:	TLB	Scale:	H 1:500 V 1:50
Drawn:	JAF	Approved:	
Checked:	SJC		
Date:	JUN 2021		
DRAWING No.	00703-C4	Design Engineer	

ACCEPTED FOR CONSTRUCTION
Town of Collingwood

per _____
Date: _____



SEE SHEET C1

SEE SHEET C4

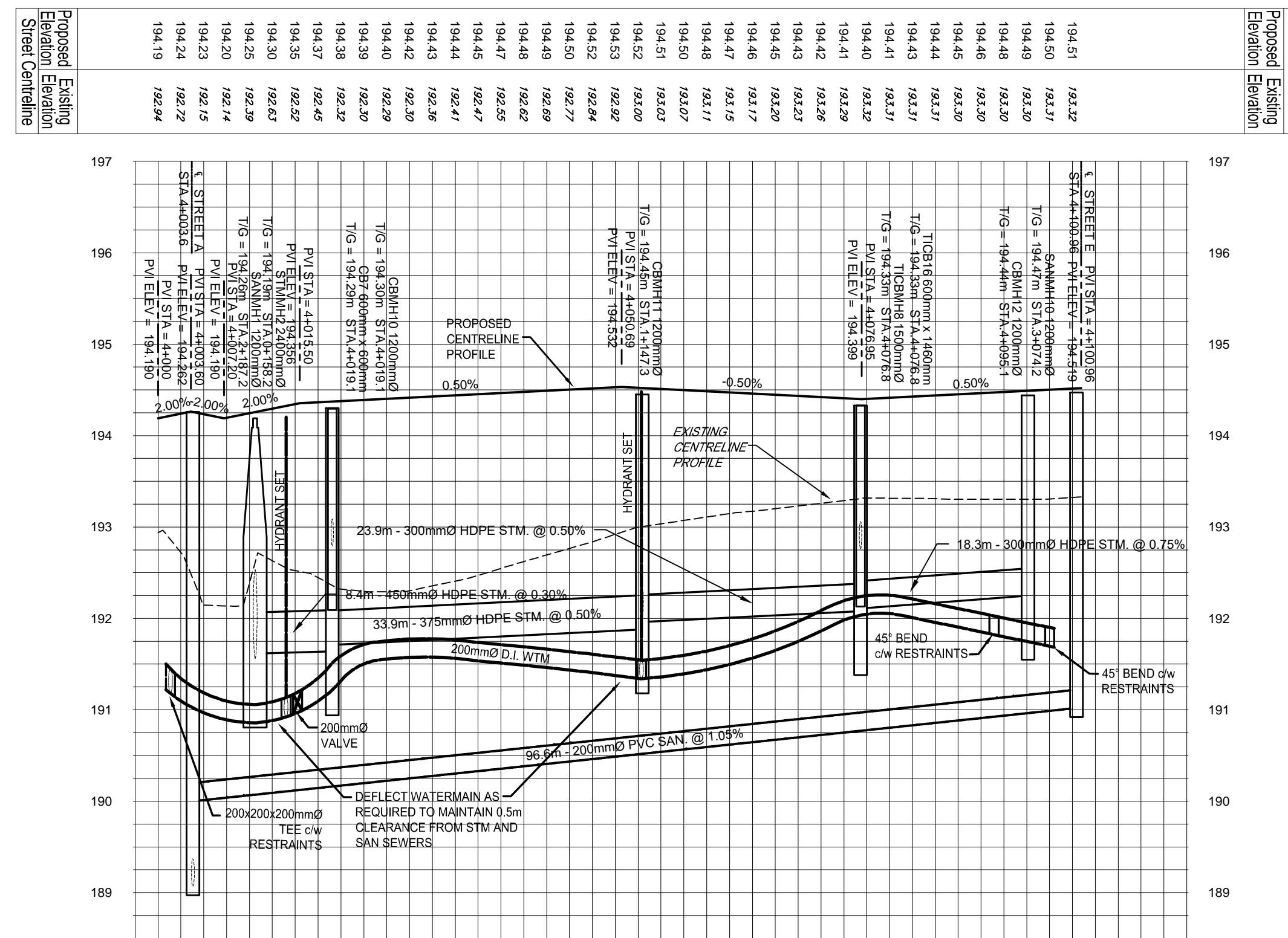
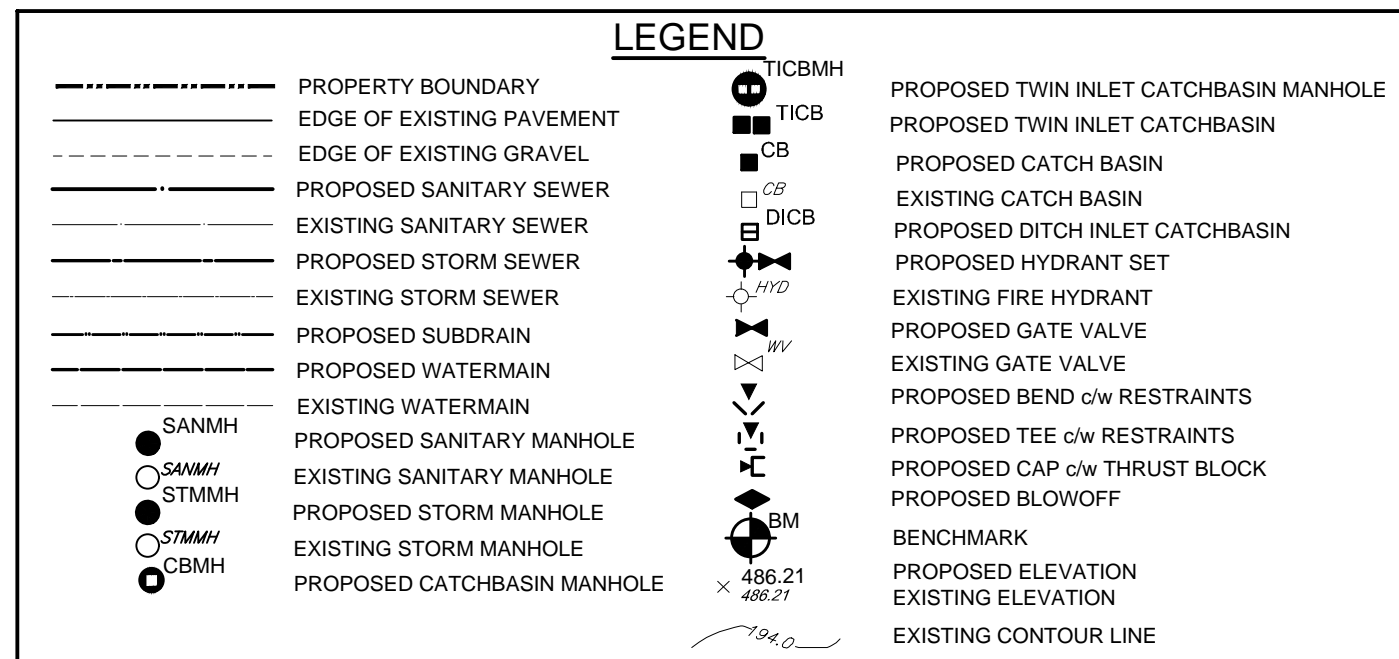
STREET E

MAINTAIN MIN. 2.5m HORIZONTAL SEPARATION DISTANCE AND 0.5m VERTICAL SEPARATION DISTANCE BETWEEN WATERMAIN AND SANITARY/STORM SEWERS INCLUDING ALL CATCHBASIN LEADS EQUAL TO OR GREATER THAN 250mm IN DIAMETER

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Station	Storm Invert	Sanitary Invert
4+000	SANMH1 W 189.07 S 189.00	SANMH1 N 191.10 S 191.02
4+020	CBMH10 S 191.56 W 191.64 W 192.72 E 192.79	STMMH2 W 191.56 S 191.61
4+040	CBMH11 N 191.88 S 191.96 W 192.03	
4+060	CBMH12 S 192.29 W 192.36 E 192.83	
4+100	SANMH10 N 191.02 S 191.02	

ACCEPTED FOR CONSTRUCTION
Town of Collingwood

per _____
Date: _____

Benchmark Information

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ELEVATION 195.24m

No.	DATE	DESCRIPTION	BY	APPD
1	MAY 2022	SECOND SUBMISSION	TLB	SJC
0	NOV 08/21	FOR PRE-CONSULTATION	TLB	SJC

REVISION / ISSUE

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COBIDE ENGINEERING INC

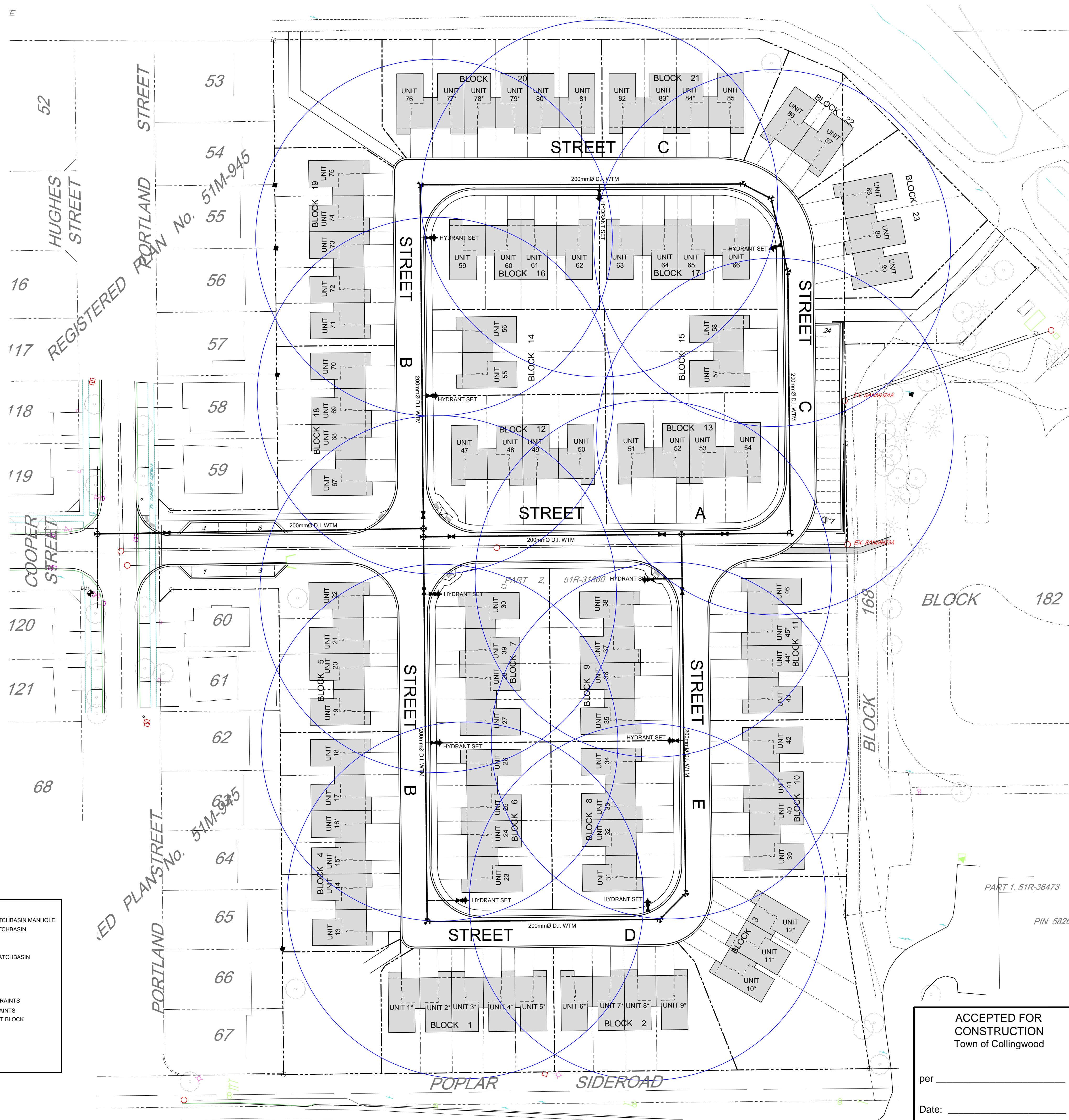
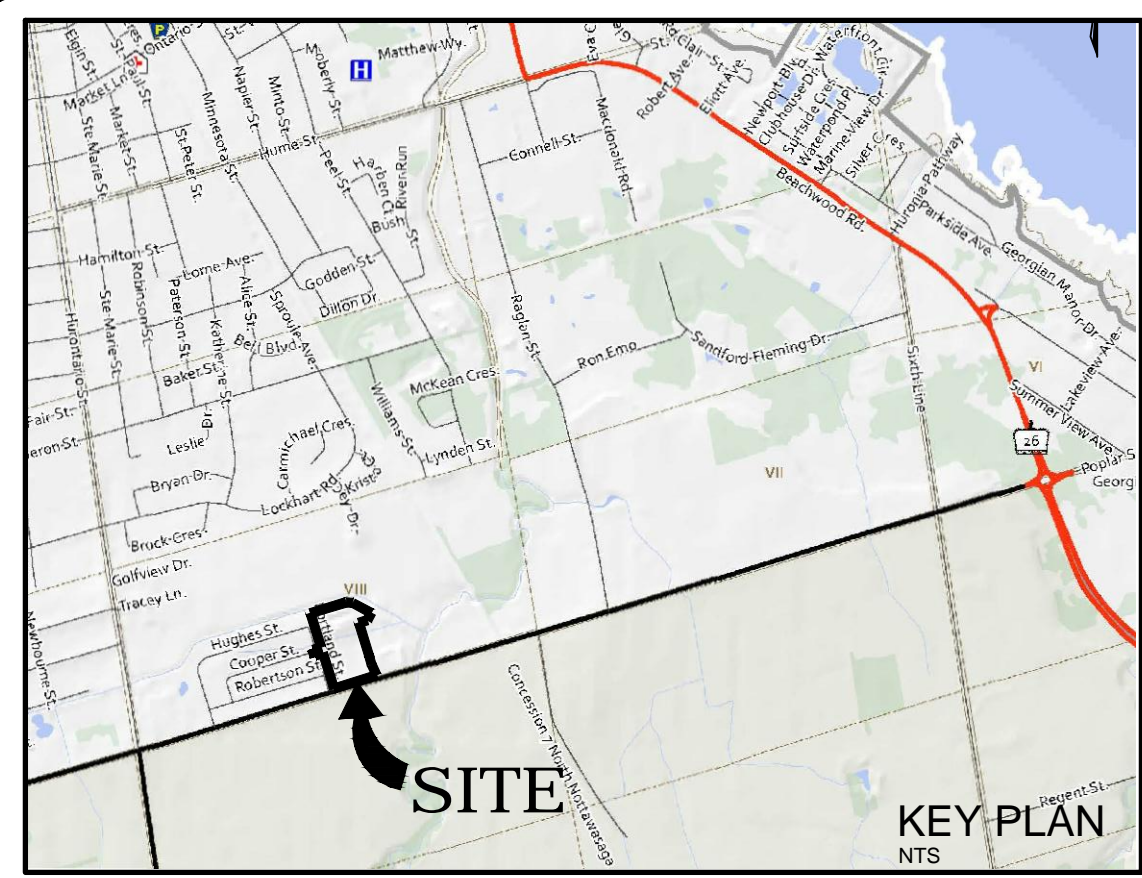
517 10th Street, Hanover, Ontario N4N 1R4
Telephone: (519) 506-5959
www.cobideeng.com

**PROPOSED TOWNHOUSE DEVELOPMENT
PRETTY RIVER ESTATES
TOWN OF COLLINGWOOD
STREET E PLAN AND PROFILE
STA 4+000 TO STA 4+100.96**

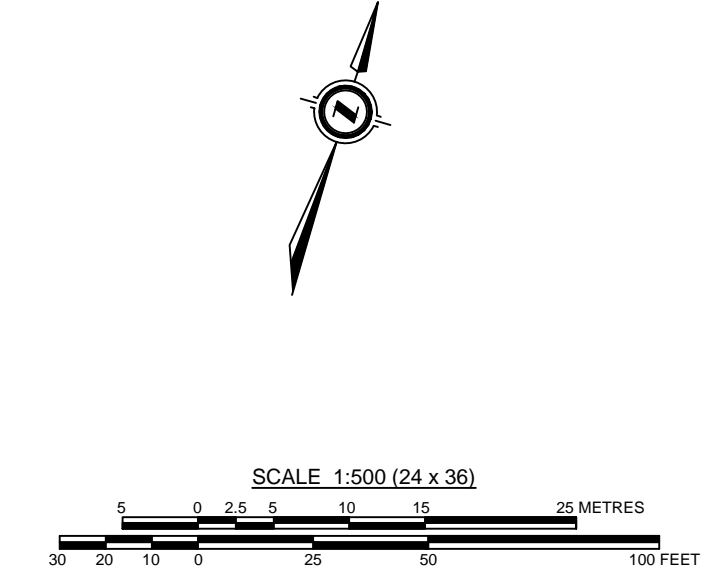
Client: **SUNVALE HOMES LTD.**

Design: TLB	Scale: H 1:500 V 1:50
Drawn: JAF	Approved: _____
Checked: SJC	
Date: JUN 2021	Design Engineer

DRAWING No. 00703-C5



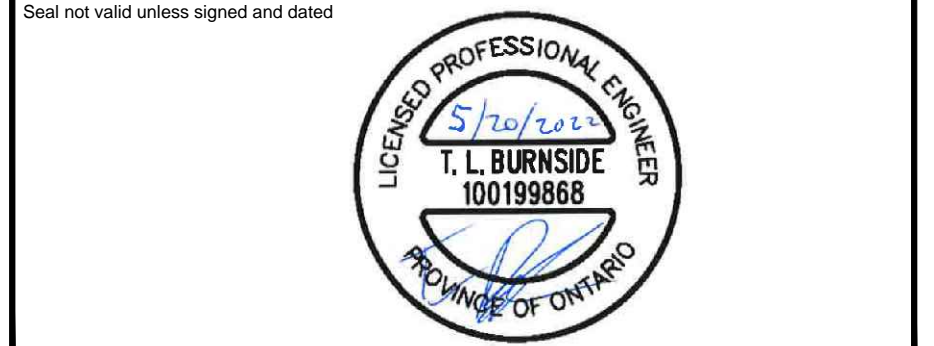
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SUNVALE HOMES LTD.

per _____
Date: _____

Design: TLB Scale: 1:500
Drawn: JAF Approved:
Checked: SJC
Date: JUN 2021 Design Engineer
DRAWING No. 00703-C6

LEGEND

---	PROPERTY BOUNDARY	■	PROPOSED TWIN INLET CATCHBASIN MANHOLE
---	EDGE OF EXISTING PAVEMENT	■	PROPOSED TWIN INLET CATCHBASIN
---	EDGE OF EXISTING GRAVEL	■	PROPOSED CATCH BASIN
---	PROPOSED SANITARY SEWER	■	EXISTING CATCH BASIN
---	EXISTING SANITARY SEWER	■	PROPOSED DITCH INLET CATCHBASIN
---	PROPOSED STORM SEWER	■	PROPOSED HYDRANT SET
---	EXISTING STORM SEWER	■	EXISTING FIRE HYDRANT
---	PROPOSED SUBDRAIN	■	PROPOSED GATE VALVE
---	PROPOSED WATERMAIN	■	PROPOSED BEND c/w RESTRAINTS
---	EXISTING WATERMAIN	■	PROPOSED TEE c/w RESTRAINTS
---	PROPOSED SANITARY MANHOLE	■	PROPOSED CAP c/w THRUST BLOCK
---	EXISTING SANITARY MANHOLE	■	PROPOSED BLOWOFF
---	PROPOSED STORM MANHOLE	■	BENCHMARK
---	EXISTING STORM MANHOLE	■	PROPOSED ELEVATION
---	PROPOSED CATCHBASIN MANHOLE	■	EXISTING ELEVATION
---	EXISTING CATCHBASIN MANHOLE	■	EXISTING CONTOUR LINE

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TOWN OF COLLINGWOOD ENGINEERING STANDARDS

GENERAL - CONSTRUCTION

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH TOWN OF COLLINGWOOD STANDARDS, OPSP AND OPSS. WHERE CONFLICT OCCURS, TOWN OF COLLINGWOOD STANDARDS GOVERN.
- TRENCH BACKFILL (OPSD 802.XXX AS APPLICABLE) TO BE SELECT NATIVE MATERIAL OR IMPORTED SELECT SUBGRADE TO OPSS 1010. BACKFILL TO BE PLACED IN MAXIMUM 200mm THICK LIFTS COMPACTED TO 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- PIPE BEDDING TO BE GRANULAR 'A' PIPE COVER TO BE GRANULAR 'B' MAX. AGGREGATE SIZE 25mm FOR RIGID PIPE AND GRANULAR 'A' FOR FLEXIBLE PIPE. (MIN. BEDDING DEPTH 150mm, MIN. COVER 300mm, COMPACTED TO A MIN. 95% SPMDD).
- CLEAR STONE WRAPPED IN FILTER FABRIC CAN BE SUBSTITUTED FOR BEDDING MATERIAL IF APPROVED BY THE ENGINEER.
- ALL MAINTENANCE HOLES ARE 1200mm DIAMETER UNLESS OTHERWISE SPECIFIED.
- ALL TOPSOIL AND EARTH EXCAVATION TO BE STOCK PILED OR REMOVED TO AN APPROVED SITE AS DIRECTED BY ENGINEER.
- THE OWNER'S ENGINEER SHALL PROVIDE BENCH MARK ELEVATIONS AND HORIZONTAL ALIGNMENT REFERENCE FOR THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DETAILED LAYOUT OF THE WORK.
- ALL PROPERTY BARS TO BE PRESERVED AND REPLACED BY O.L.S. AT CONTRACTOR'S EXPENSE IF REMOVED DURING CONSTRUCTION.
- ALL MAINTENANCE HOLES AND CB FRAMES AND COVERS TO BE SET TO BASE COURSE HL3 ASPHALT ELEVATION AND RAISED PRIOR TO PLACEMENT OF FINAL COURSE HL3 ASPHALT TO THE SATISFACTION OF THE TOWN.
- THE CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS FOR THE SUPPLY OF TEMPORARY WATER AND POWER.
- DEWATERING TO BE CARRIED OUT IN ACCORDANCE WITH OPSS 517 AND 518 TO MAINTAIN ALL TRENCHES IN A DRY CONDITION. CONTRACTOR RESPONSIBLE FOR OBTAINING M.O.E. PERMIT IF REQUIRED.
- ALL ENGINE DRIVEN PUMPS TO BE ADEQUATELY SILENCED, SUITABLE FOR OPERATION IN A RESIDENTIAL DISTRICT.
- DISTURBED AREAS TO BE REINSTATED TO PREVIOUS CONDITION OR BETTER.
- THE CONTRACTOR IS RESPONSIBLE FOR PRESERVATION OF ALL EXISTING FACILITIES AS WELL AS ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK AND CO-ORDINATE CONSTRUCTION ACCORDINGLY.

ROADWAYS

- SUBGRADE AND BOULEVARD MATERIAL TO BE COMPACTED TO A MINIMUM DRY DENSITY OF AT LEAST 95% SPMDD. SUBGRADE TO BE PROOF ROLLED AND CERTIFIED PRIOR TO PLACING GRANULAR 'B'.
- GRANULAR 'A' AND 'B' BASE TO BE COMPACTED TO 100% OF THE MATERIAL'S RESPECTIVE SPMDD.
- ROADWAYS TO BE CONSTRUCTED WITH MIN. 300MM GRANULAR 'B' TYPE 1, 150MM GRANULAR 'A', AND 50MM HL3 BASE 40MM HL3 SURFACE COURSE ASPHALT. ALL SUBDRAINS TO BE CONSTRUCTED IN ACCORDANCE WITH OPSS 405.
- SELECT SUBGRADE MATERIAL, OR IMPORTED GRANULAR MATERIAL APPROVED BY THE ENGINEER, COMPACTED TO 98% SPMDD TO BE USED AS FILL IN ALL AREAS WHERE PROPOSED PIPE INVERTS ARE HIGHER THAN EXISTING GRADE OR AS INSTRUCTED BY THE ENGINEER.
- ALL GRANULARS AND ASPHALT MATERIALS AND PLACEMENT TO BE IN ACCORDANCE WITH OPSS 314 AND 310.
- JOINTS WITH EXISTING ASPHALT TO BE SAW CUT STRAIGHT PRIOR TO PLACING NEW ASPHALT AND TACK COAT APPLIED TO EXISTING ASPHALT.
- STOP SIGNS AND STREET SIGNS TO TOWN STANDARDS.
- REINSTATEMENT OF ALL DISTURBED BOULEVARDS TO INCLUDE REGRADING, 100mm TOPSOIL AND SOD TO OPSS 570 AND 571.
- CONCRETE CURB AND GUTTER TO OPSP 600.040 OR OPSP 600.070 OR OPSS 353.
- CONCRETE SIDEWALK TO OPSP 310.010, 310.030, AND OPSS 351, SUBBASE TO CONSIST OF MIN. 150MM OF GRANULAR 'A'.
- 100mm DIAMETER PIPE SUBDRAINS SHALL BE PROVIDED AS PER STANDARD 210 ON BOTH SIDES OF THE ROAD.
- SUBDRAIN TO BE INSTALLED 200mm BELOW CURB IN GRANULAR 'A' TRENCH AND CONNECTED TO EACH CB OR CBMH.
- SUBDRAINS TO BE PERFORATED OTHER THAN THE 2m SECTION IMMEDIATELY UPSTREAM OF ALL STRUCTURES WHICH SHALL BE NON-PERFORATED.

SANITARY SEWERS AND SERVICES

- MHS TO OPSP 701.XXX (AS APPROPRIATE).
- BENCHING TO OPSP 701.021.
- STEPS TO OPSP 405.010.
- FROST STRAPS SHALL BE INSTALLED ON ALL MAINTENANCE HOLES AS PER OPSP 701.100.
- BEDDING AND COVER TO OPSP 802.010 (FLEXIBLE PIPE), GRANULAR 'A' EMBEDMENT MATERIAL OR OTHER APPROVED HOMOGENEOUS GRANULAR MATERIAL.
- TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL AS APPROVED BY ENGINEER OR IMPORTED GRANULAR MATERIAL.
- FRAMES AND COVERS TO BE OPSP 401.01 TYPE 'A', CLOSED COVER.
- SERVICE CONNECTIONS TO OPSP 1006.020 (125mm), GRANULAR 'A' EMBEDMENT, TERMINATE AT PROPERTY LINE 2.5m RIGHT OF WATER SERVICE (FACING LOT) WITH A 125 X 100 REDUCER C/W PLUG AND 38mm x 89mm MARKER POST PAINTED GREEN. MIN. GRADE TO BE 2.0%.
- RADIUS BENDS TO BE USED ON SANITARY SEWER CONNECTIONS WHERE THE ANGLE OF CONNECTION BETWEEN THE SERVICE AND SEWER EXCEEDS 90°.
- BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S SPMDD.
- CLEAR STONE WRAPPED WITH FILTER FABRIC CAN BE SUBSTITUTED FOR EMBEDMENT MATERIAL IF APPROVED BY THE ENGINEER.
- PIPE SUPPORT AT MAINTENANCE HOLES PER OPSP 708.020.
- GENERAL INSTALLATION AND TESTING OF SEWERS AND APPURTENANCES TO BE IN ACCORDANCE WITH OPSS 407, 408, 409 (CCTV), 410, 421, AND ALL SPECIFICATIONS REFERENCED WITHIN THESE SECTIONS.

TOWN OF COLLINGWOOD ENGINEERING STANDARDS	
Watermain Pipe	Ductile iron class 52 or Pressure class 350 cement lined.
Gate Valves	Clow or Mueller, RSGV mechanical joint, resilient seat, right hand closing
Valve Boxes	5-SL-48 sliding or approved equal with cap painted blue.
Hydrants	Century number 1, open left (or), 2 hose csa, 33b plumber port, 6" MJ base, draining. Yellow base with silver bonnet and ports.
Fittings	Mechanical joint, ductile iron to meet AWWA/ANSI C153/A 21.53 specification
Main Stops	Cambridge Brass 201-A3H3 (AWWA thread by compression)
Curb Stops	Cambridge Brass 203-H3H3 (AWWA compression by compression)
Service Material	20mm type K copper pipe
Tracer Wire	12 AWG TWH solid plastic covered, TW4.75° C 600V or approved equivalent

WATERMAIN AND WATER SERVICES

- BEDDING AND COVER TO OPSP 802.010. GRANULAR 'A' EMBEDMENT MATERIAL OR OTHER APPROVED HOMOGENEOUS GRANULAR MATERIAL.
- TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL AS APPROVED BY ENGINEER OR IMPORTED GRANULAR FILL.
- THRUST BLOCKS TO OPSP 1103.010 AND 1103.020 WHERE SUITABLE SOILS ARE ENCOUNTERED.
- SERVICE CONNECTIONS TO OPSP 1104.010, 100mm GRANULAR 'A' EMBEDMENT AND COVER OVER PIPE. TERMINATE AT PROPERTY LINE AT CENTER OR LOT C/W CURB STOP AND BOX, TESTING TAIL TO SURFACE ATTACHED TO A 38mm x 89mm MARKER POST PAINTED BLUE.
- HYDRANTS TO OPSP 1105.01. DRAIN PLUGS SHALL BE INSTALLED WHERE HIGH WATER TABLE IS ENCOUNTERED.
- BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- MINIMUM COVER ON WATER MAIN AND SERVICES TO BE 1.7m.
- GATE VALVES, BENDS AND HYDRANT LEADS AND FITTINGS TO BE CONNECTED WITH ROMAX GRIP RESTRAINING CLAMP.
- CLEARANCE BETWEEN WATER MAINS AND SEWERS TO BE A MINIMUM OF 0.5m VERTICAL WHERE WATER MAIN IS BELOW SEWER OR 2.5m MINIMUM HORIZONTAL SEPARATION. WHERE WATER MAIN IS ABOVE THE SEWER, THE MINIMUM SEPARATION TO BE 150mm (BEDDING MATERIAL).
- SERVICE TO OPSP 1104.010 AND SHALL BE DIRECT TAP.
- FOLLOWING TESTING, CONTRACTOR SHALL OPERATE EACH WATER SERVICE TO VERIFY FULL FLOW AND PRESSURE AT THE CURB STOP TO THE SATISFACTION OF THE ENGINEER.
- GENERAL INSTALLATION AND TESTING OF WATER MAIN AND APPURTENANCES TO BE IN ACCORDANCE WITH OPSS 701 AND ALL SPECIFICATIONS REFERENCED WITHIN THESE SECTIONS.
- ALL WATERMAIN TESTING AND CHLORINATION WILL BE CONDUCTED BY CPU AT THE DEVELOPER'S COST. NEW WATERMANS ARE NOT TO BE CONNECTED TO EXISTING WATERMANS UNTIL BACTERIOLOGICAL TESTING HAS BEEN SUCCESSFULLY COMPLETED.

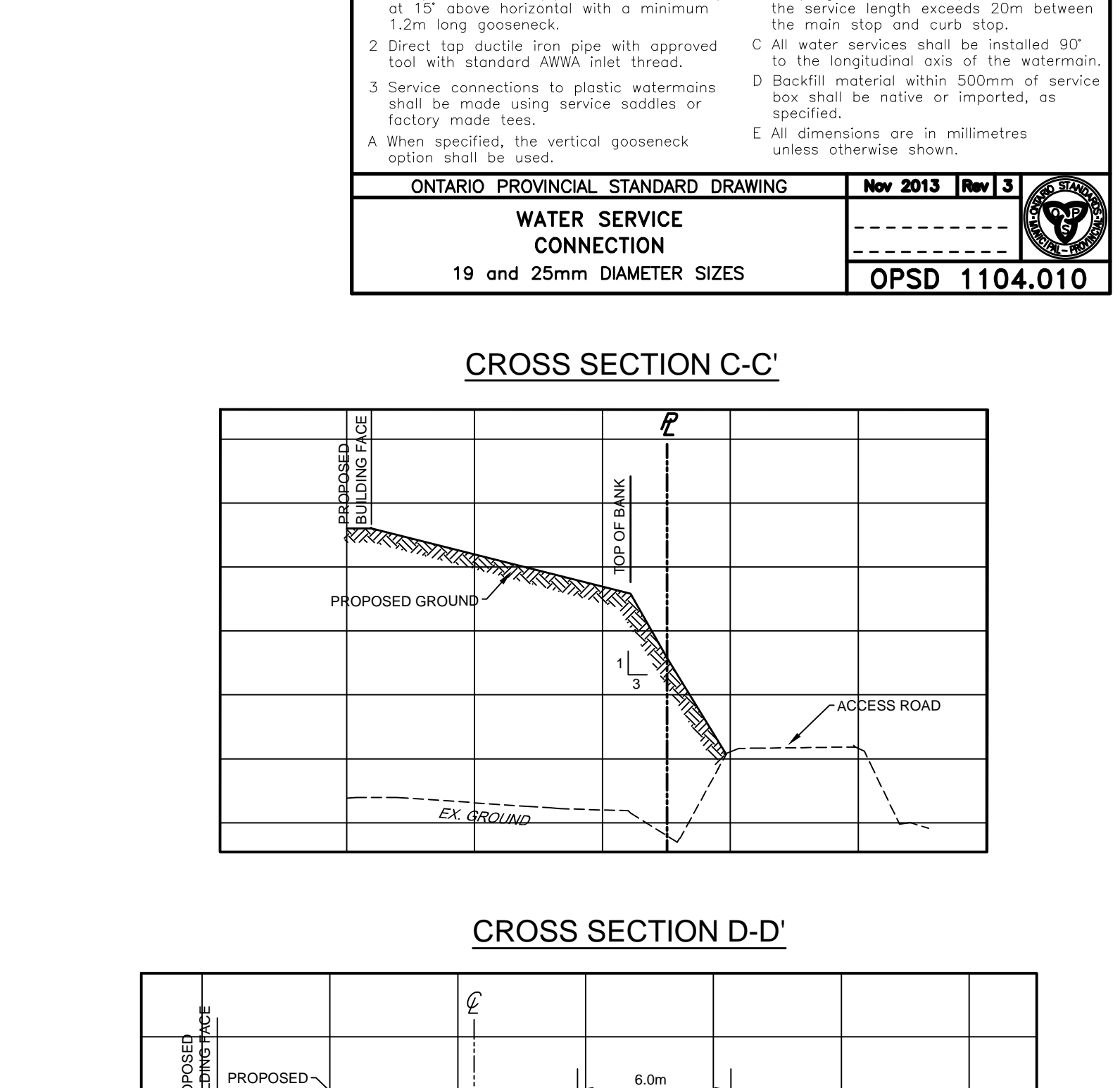
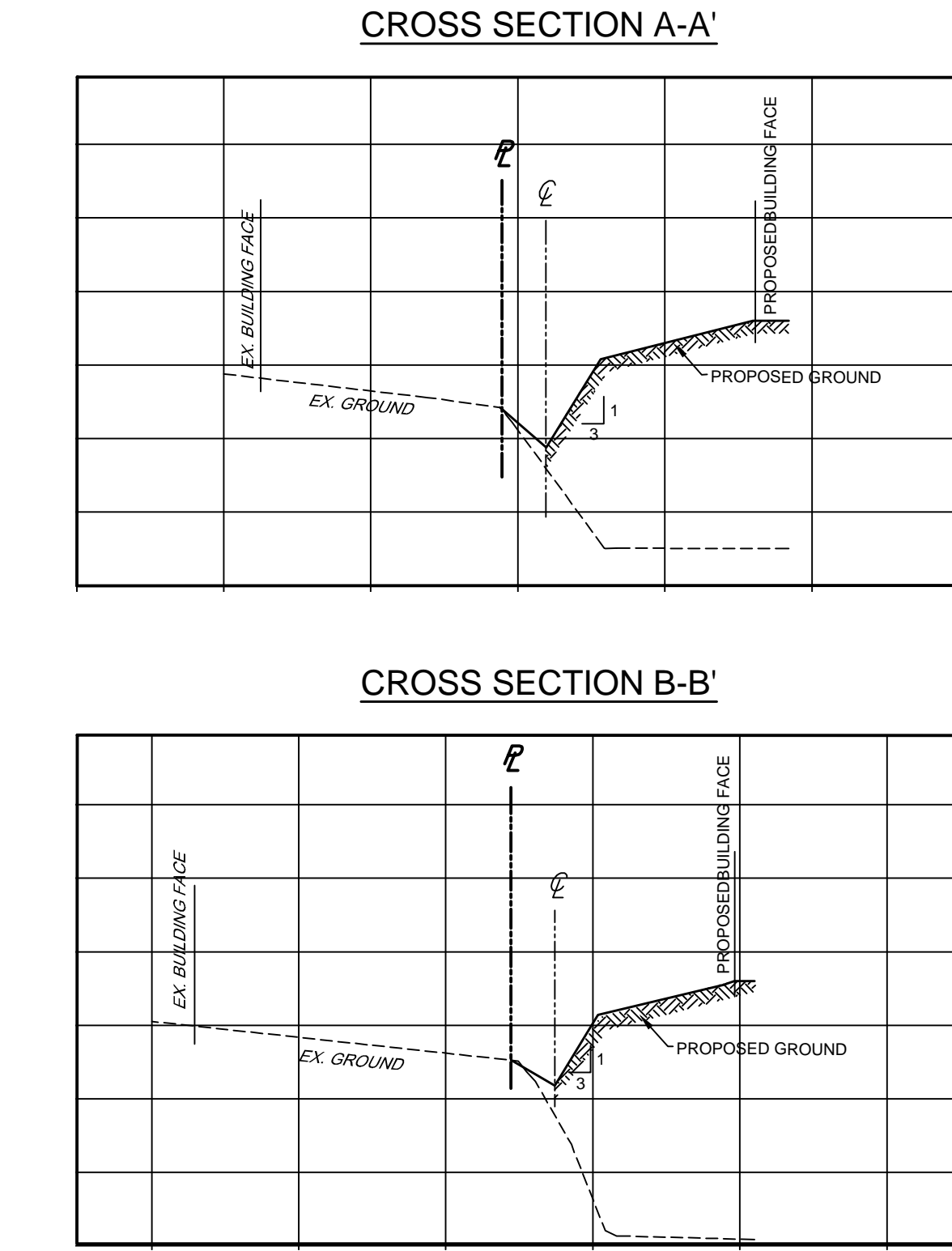
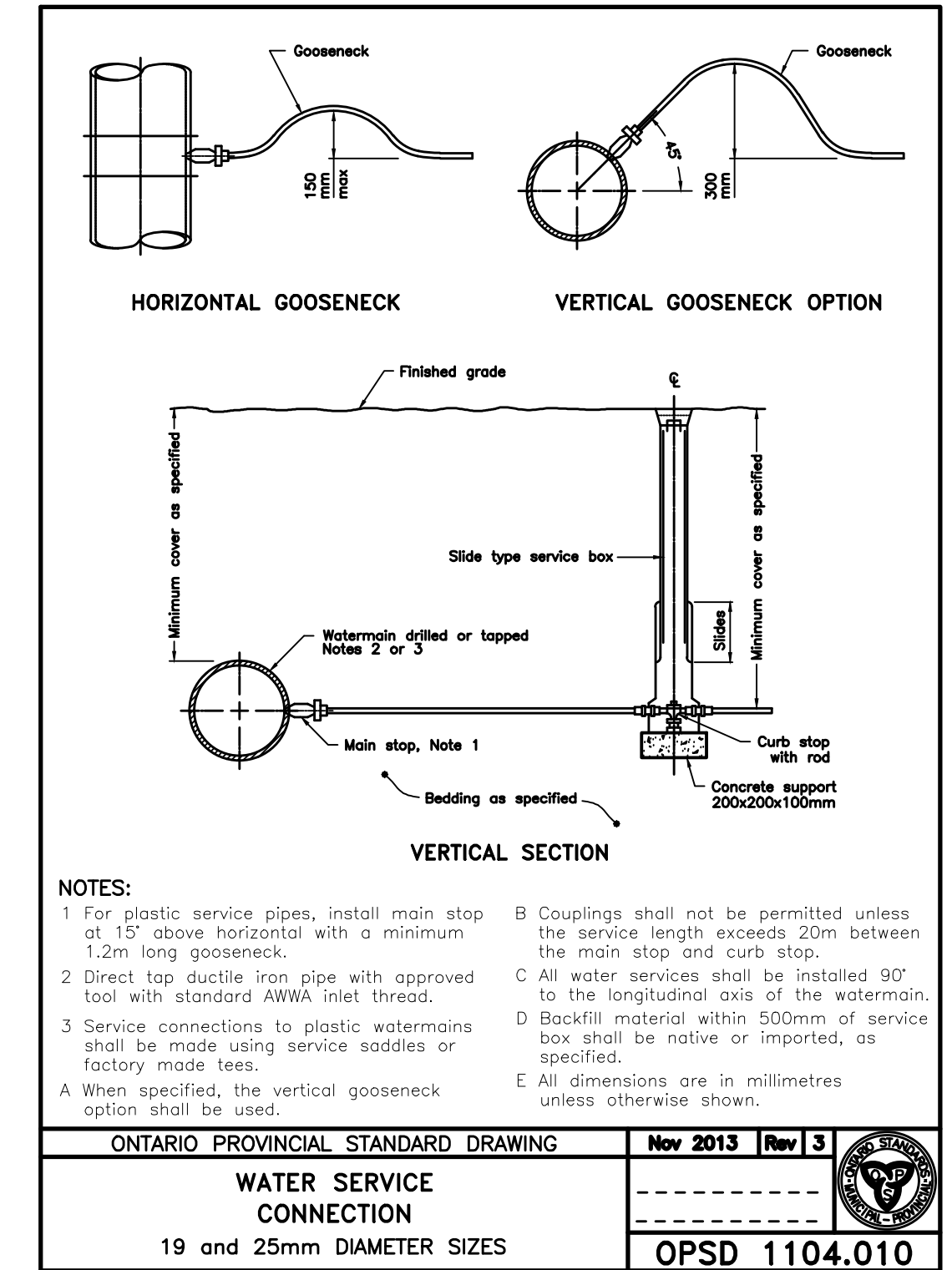
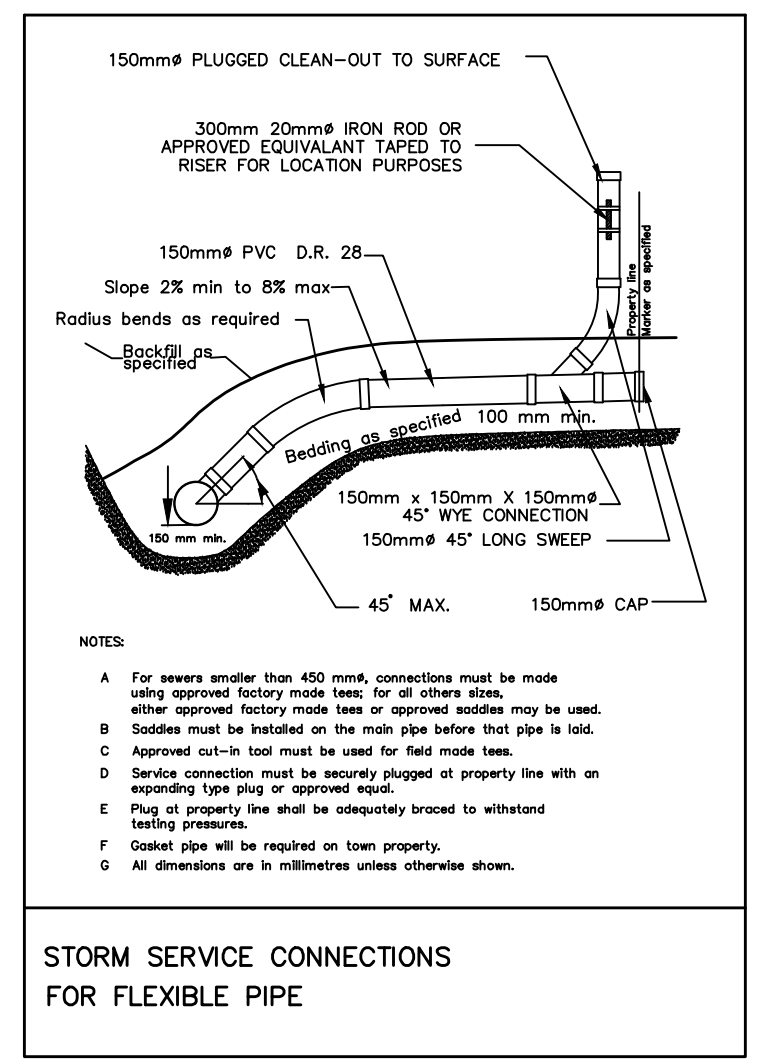
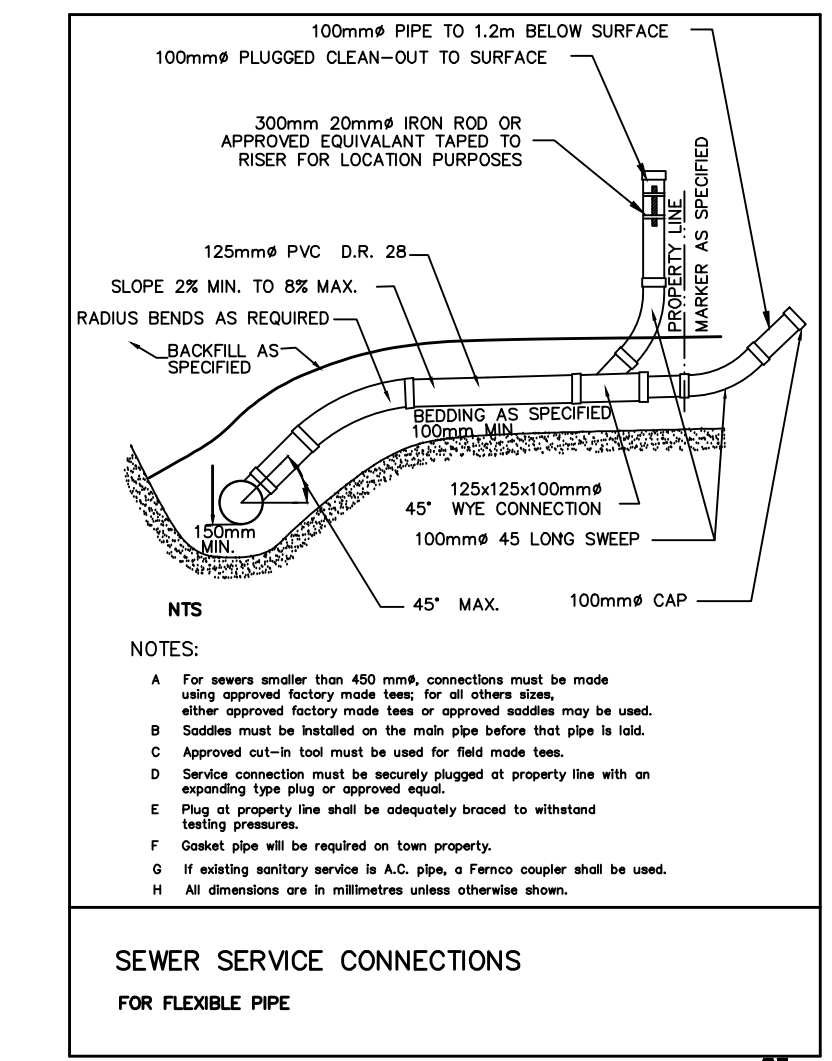
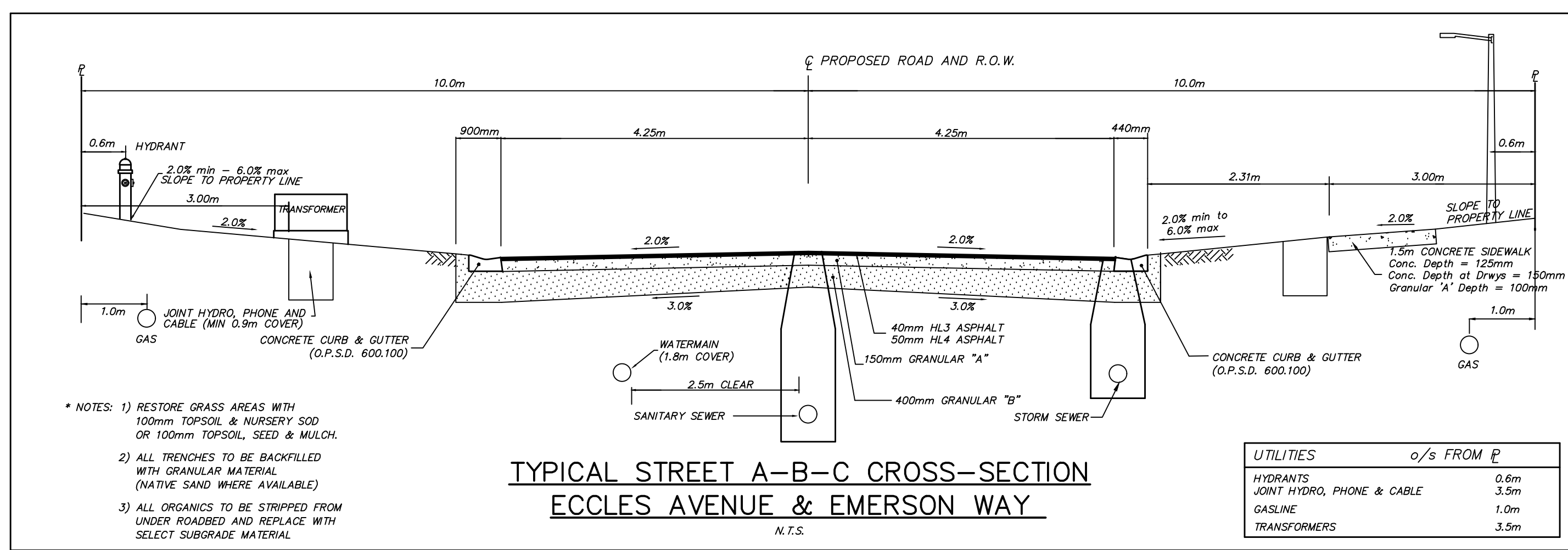
STORM SEWERS AND SERVICES

- MH, CBMH AND DICBMH TO OPSP 701.XXX (AS APPROPRIATE) C/W SUMP UNLESS NOTED OTHERWISE.
- STEPS TO OPSP 405.010.
- MH FRAMES AND GRATES TO OPSP 401.01 OPEN COVER.
- CB'S TO OPSP 705.010, 705.020.
- DICB'S TO OPSP 705.030, 705.040, 706.010, 706.020, 706.030, 706.040.
- CB AND CBMH FRAMES AND GRATES TO OPSP 708.020.
- PIPE SUPPORT AT MHS, CBS, AND CBMH'S TO OPSP 708.020, 708.030.
- PROTECTION DURING CONSTRUCTION TO OPSP 808.010.
- BEDDING AND COVER TO OPSP 802.010 (FLEXIBLE PIPE) GRANULAR 'A' EMBEDMENT OR OPSP 802.030, 802.031, AND 802.032 (RIGID PIPE) GRANULAR 'A' EMBEDMENT.
- TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL AS APPROVED BY ENGINEER OR IMPORTED GRANULAR MATERIAL.
- BACKFILL AND EMBEDMENT MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S SPMDD.
- SERVICE CONNECTION TO TOWN STANDARD 530 100mm, GRANULAR 'A' EMBEDMENT, TERMINATE AT PROPERTY LINE 1.0 TO THE RIGHT OF SANITARY SERVICE (FACING LOT) c/w A CAP/PLUG AND A 38mm x 89mm MARKER STAKE PAINTED WHITE.

MATERIALS

- SANITARY SEWER - SDR35 PVC.
- SANITARY SERVICES - SDR28 PVC, 125mm COLOUR GREEN USING TEE CONNECTIONS TO MAIN.
- WATERMAIN - DUCTILE IRON CLASS 52, OR PRESSURE CLASS 350 CEMENT LINED. CONDUCTIVITY CONNECTORS TO BE USED ON ALL JOINTS.
- WATERMAIN SERVICES - 20mm TYPE 'K' SOFT COPPER PIPE.
- HYDRANTS - CENTURY NUMBER 1, OPEN LEFT (or), 2 HOSE CSA, 33B PLUMBER PORT, 6" MJ BASE, DRAINING. YELLOW BASE WITH SILVER BONNET AND PORTS.
- HYDRANT ACCESSORIES - MARKER'S FLEX STAKE MODEL FHV 804, REFLECTIVE HYDRANT DECAL, YELLOW, 48" LENGTH; ANTI TAMPER DEVICE FOR CENTURY HYDRANTS, BLUE.
- VALVES - RESILIENT SEATED, RSGV, MECHANICAL JOINT, OPEN LEFT CLOW OR MUELLER WITH 5-SL-48 SLIDING VALVE BOX.
- MECHANICAL JOINT DUCTILE FITTINGS - AWWA/ANSI C153/A21.53.
- RESTRAINER-ROLMAC GRIPPER RING UP TO 300mm, SIGMA ONE LOCK RESTRAINING GLANDS OVER 300mm.
- LIVE TAP SADDLES - EPOXY COATED C/W STAINLESS STEEL BOLTS.
- FILTER FABRIC - TERRAFIX 270R OR APPROVED EQUAL.
- PERFORATED SUBDRAINS - 100mm BIG 'O' WITH GEOTEXTILE FILTER SOCK OR APPROVED EQUAL.
- STORM SEWER - PVC SDR35, CONCRETE CLASS III OR HDPE OPEN PROFILE BELL & SPIGOT (BOSS 2000 AND MIN. PIPE STIFFNESS=320KPa OR EQUAL).
- STORM SEWER CONNECTION - PVC SDR28 - 100mm COLOUR WHITE.
- CULVERTS - SMOOTH WALL HDPE (MIN. PIPE STIFFNESS=320KPa) OR CORRUGATED METAL PIPE (MIN. THICKNESS = 2.0mm)
- RIP-RAP TO OPSP 1004.05.06.
- ALL SPECIFIED AGGREGATES TO OPSP 1010.
- HYDRANTS ARE TO BE 1.85m LONG. EXTENSIONS IF REQUIRED ARE TO BE INSTALLED BELOW THE 1.85m SECTION.

CAUTION: THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.



ACCEPTED FOR CONSTRUCTION
Town of Collingwood

per _____
Date: _____

No.	DATE	DESCRIPTION	BY	APPD
1	MAY 2022	SECOND SUBMISSION	TLB	SJC
0	NOV 08/21	FOR PRE-CONSULTATION	TLB	SJC

REVISION / ISSUE

Seal valid unless signed and dated

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517 10th Street, Hanover, Ontario N4N 1R4
Telephone: (519) 506-5959
www.cobideeng.com

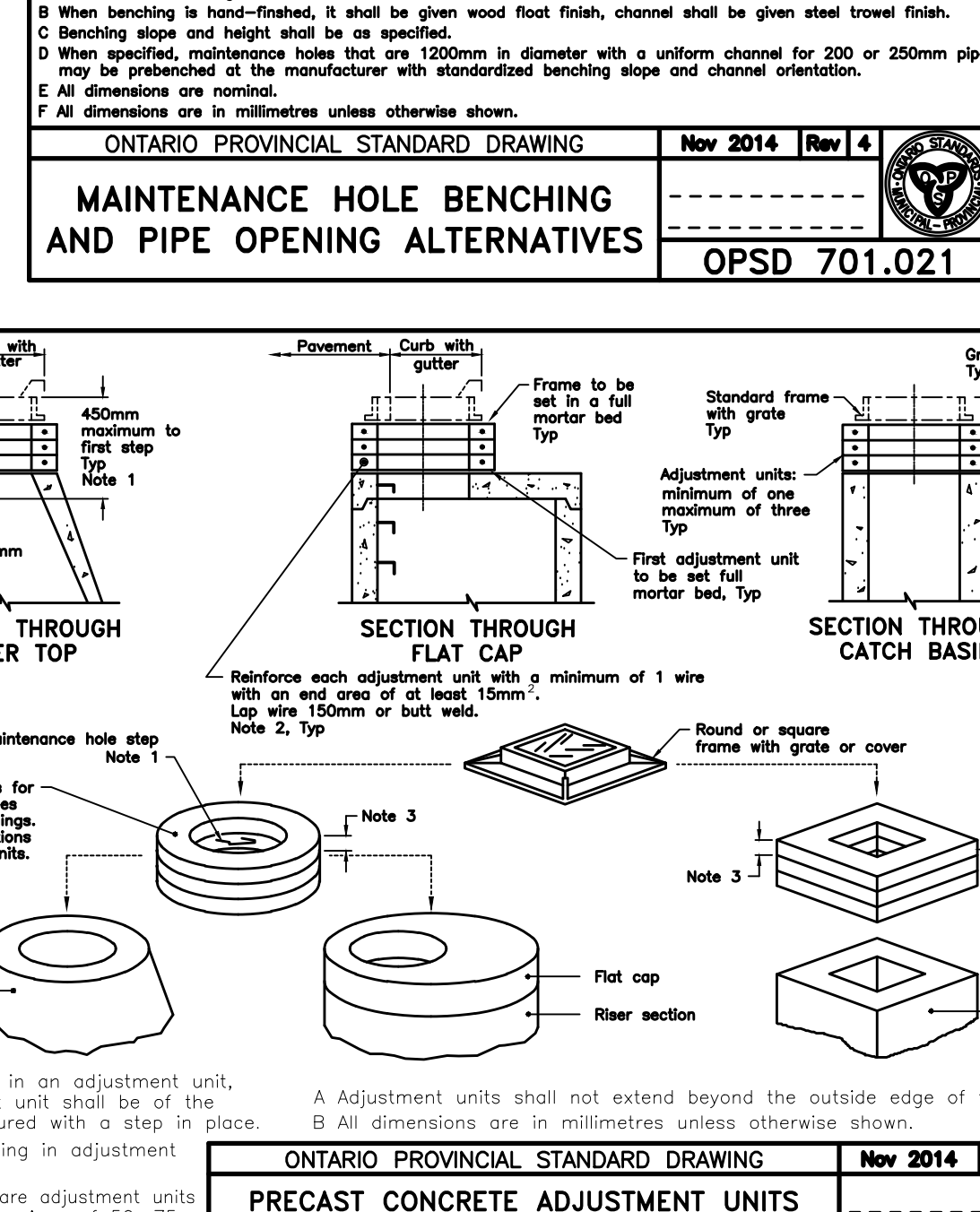
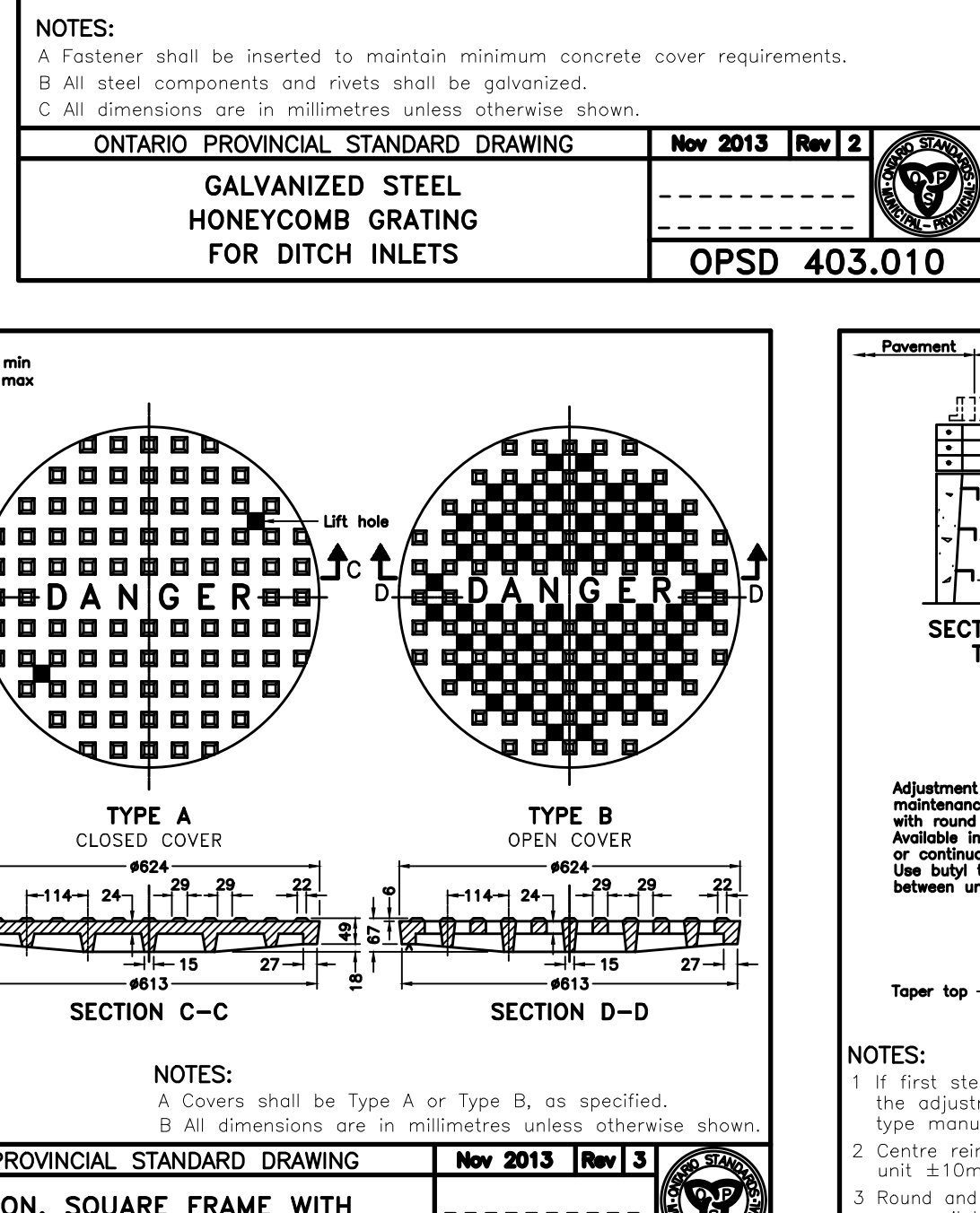
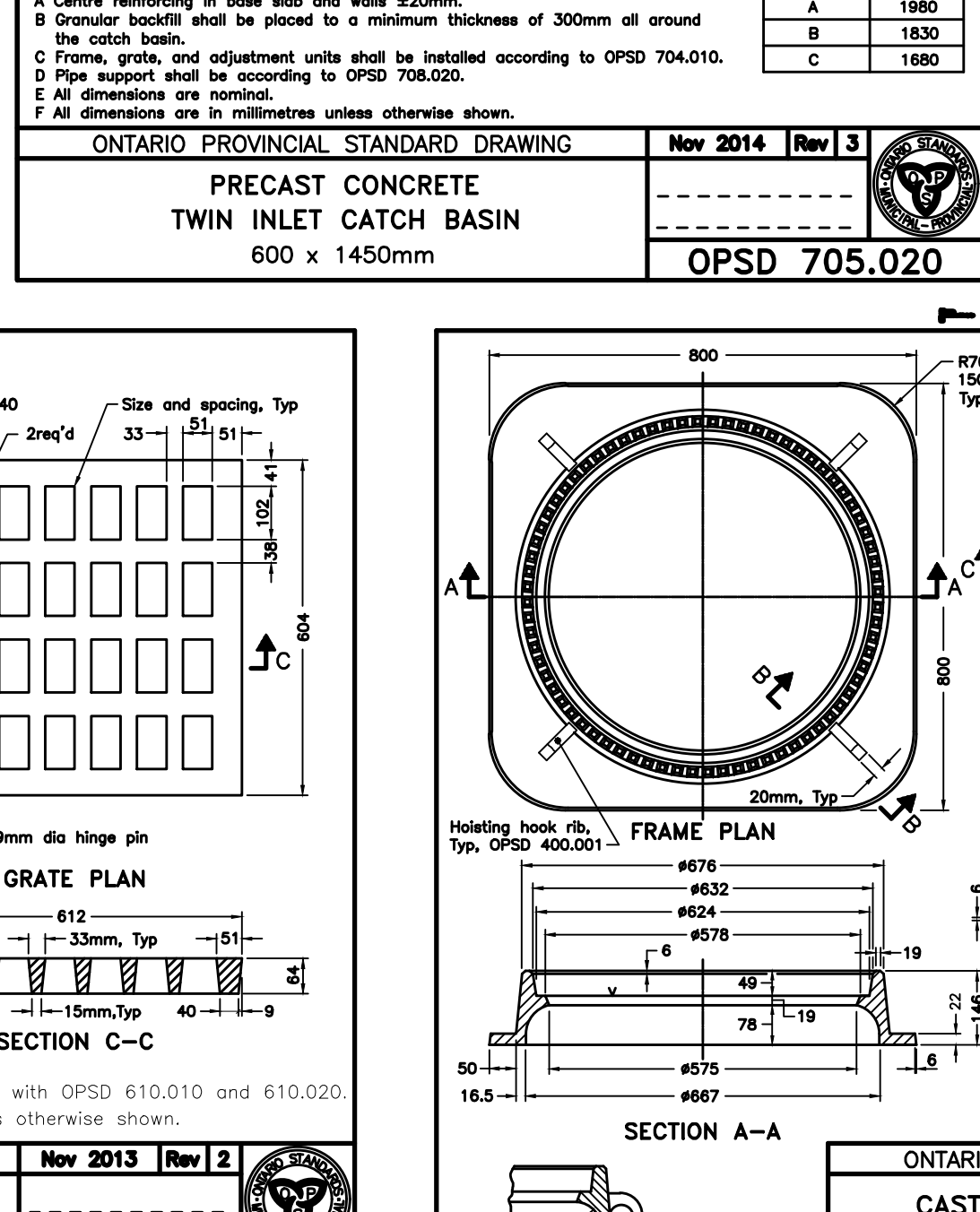
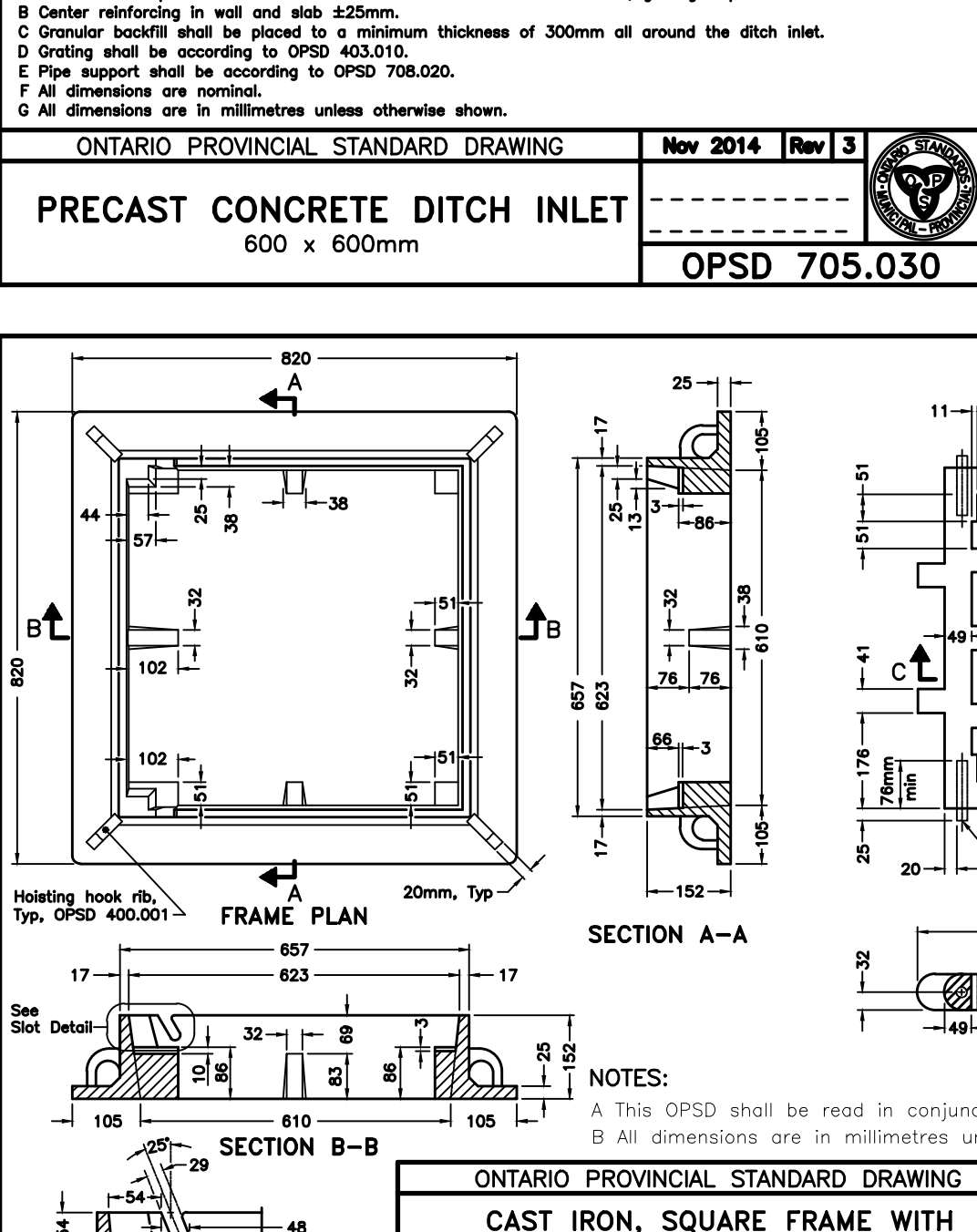
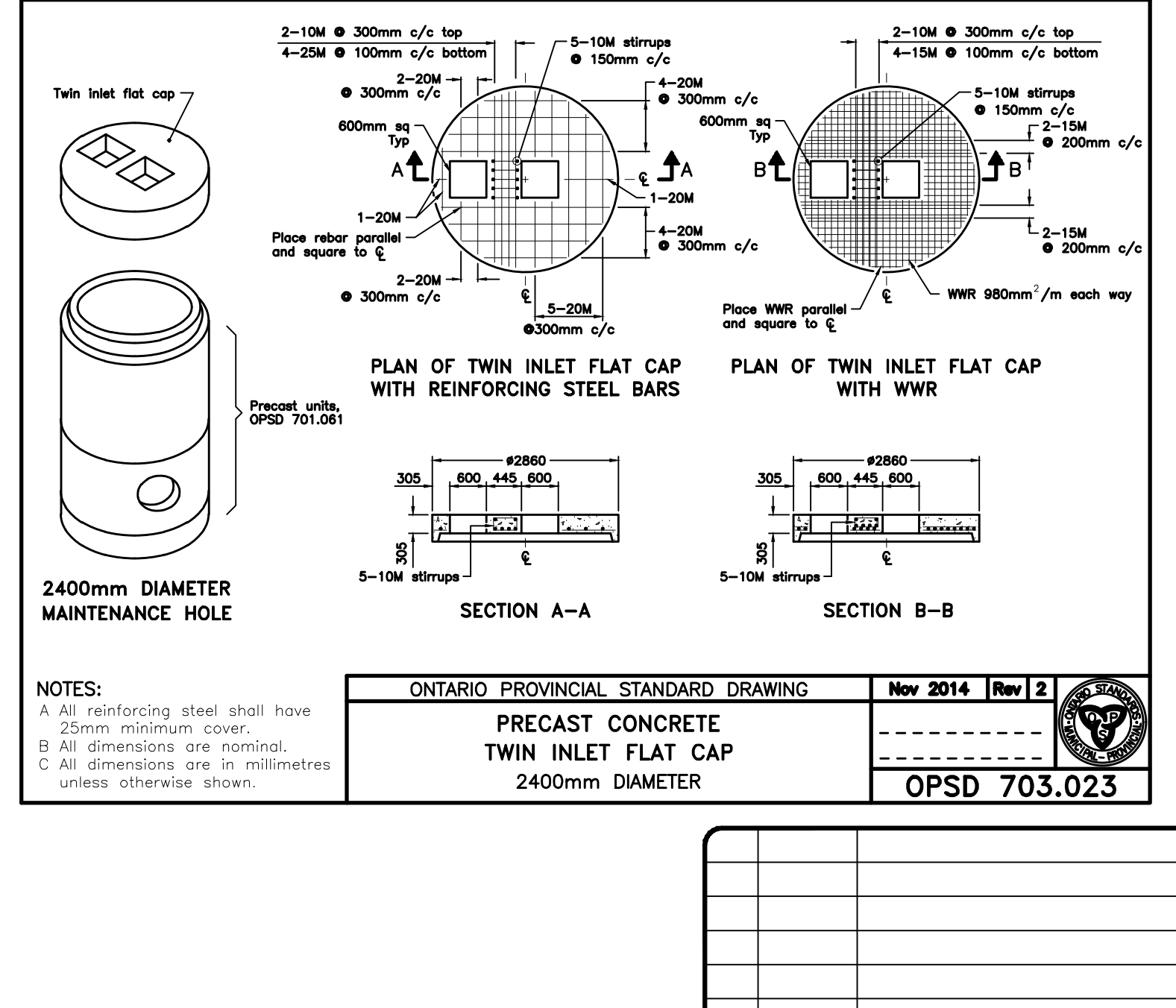
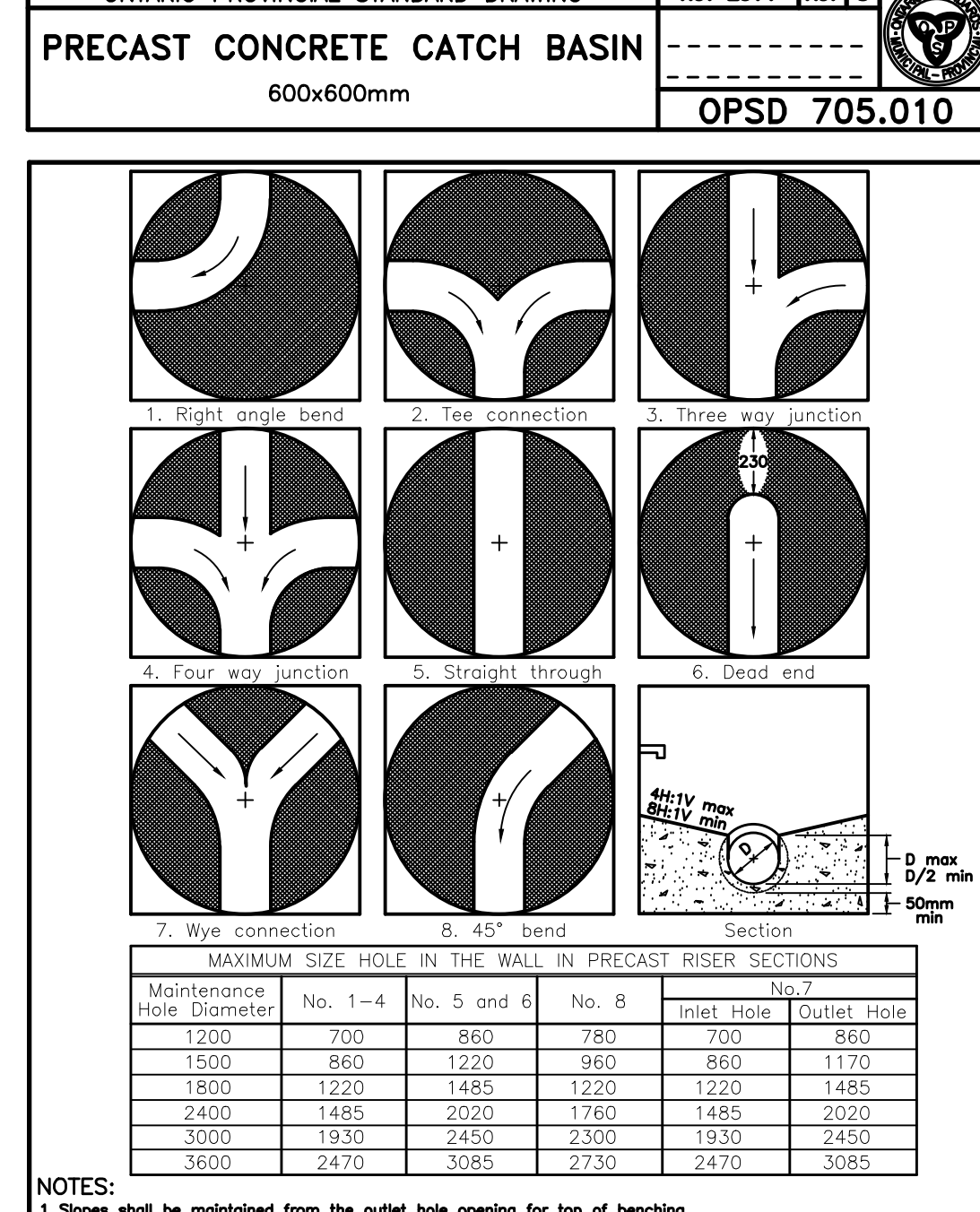
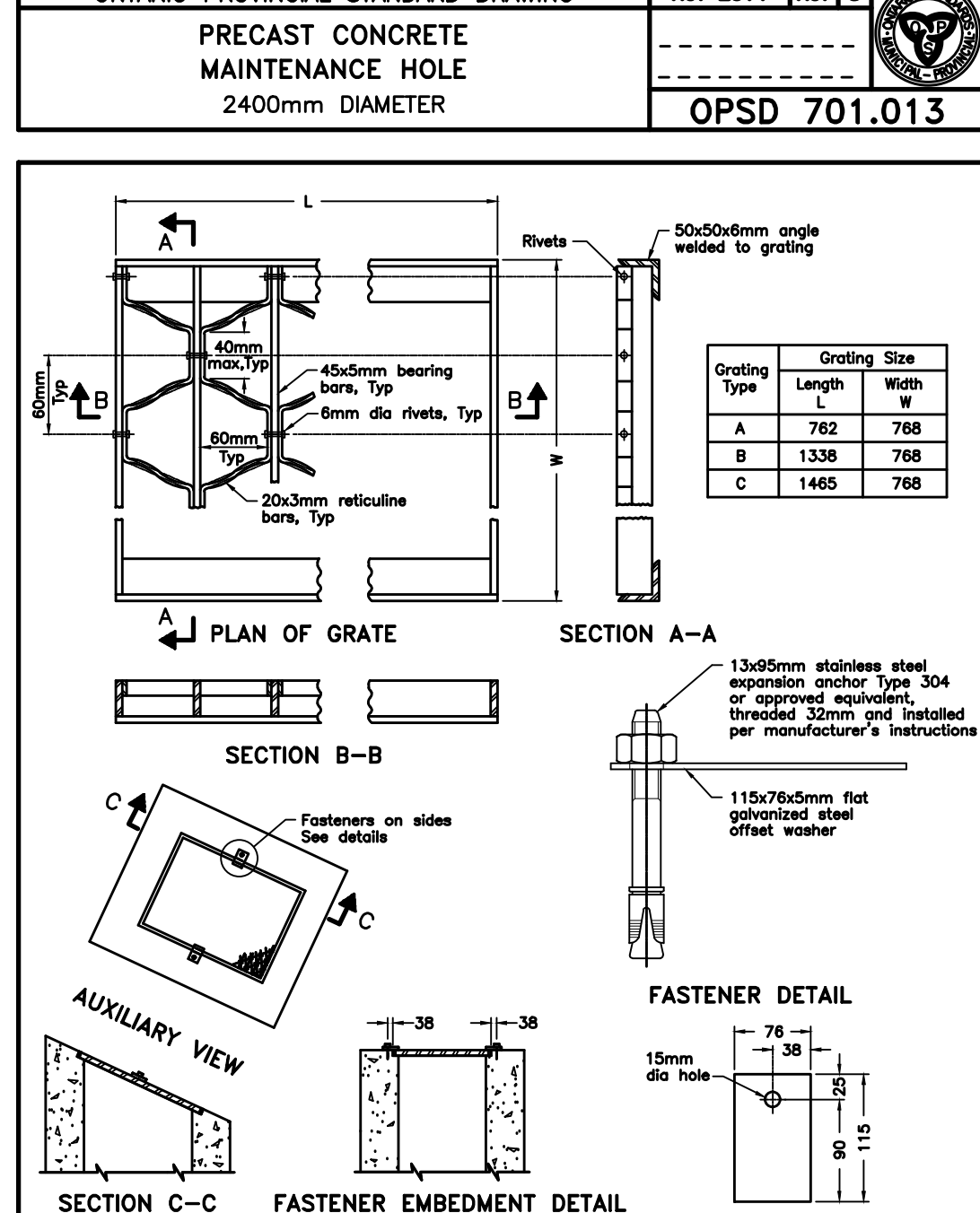
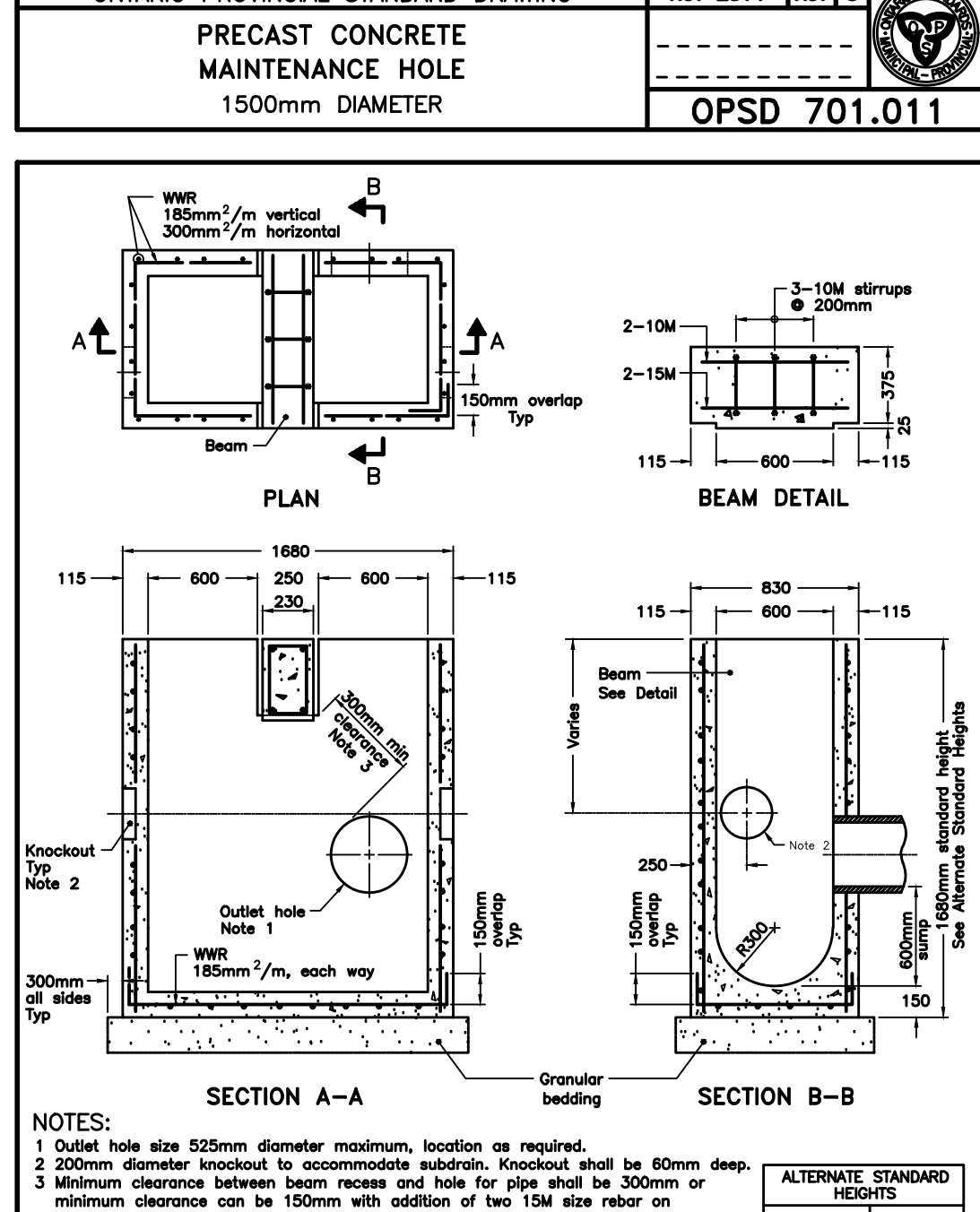
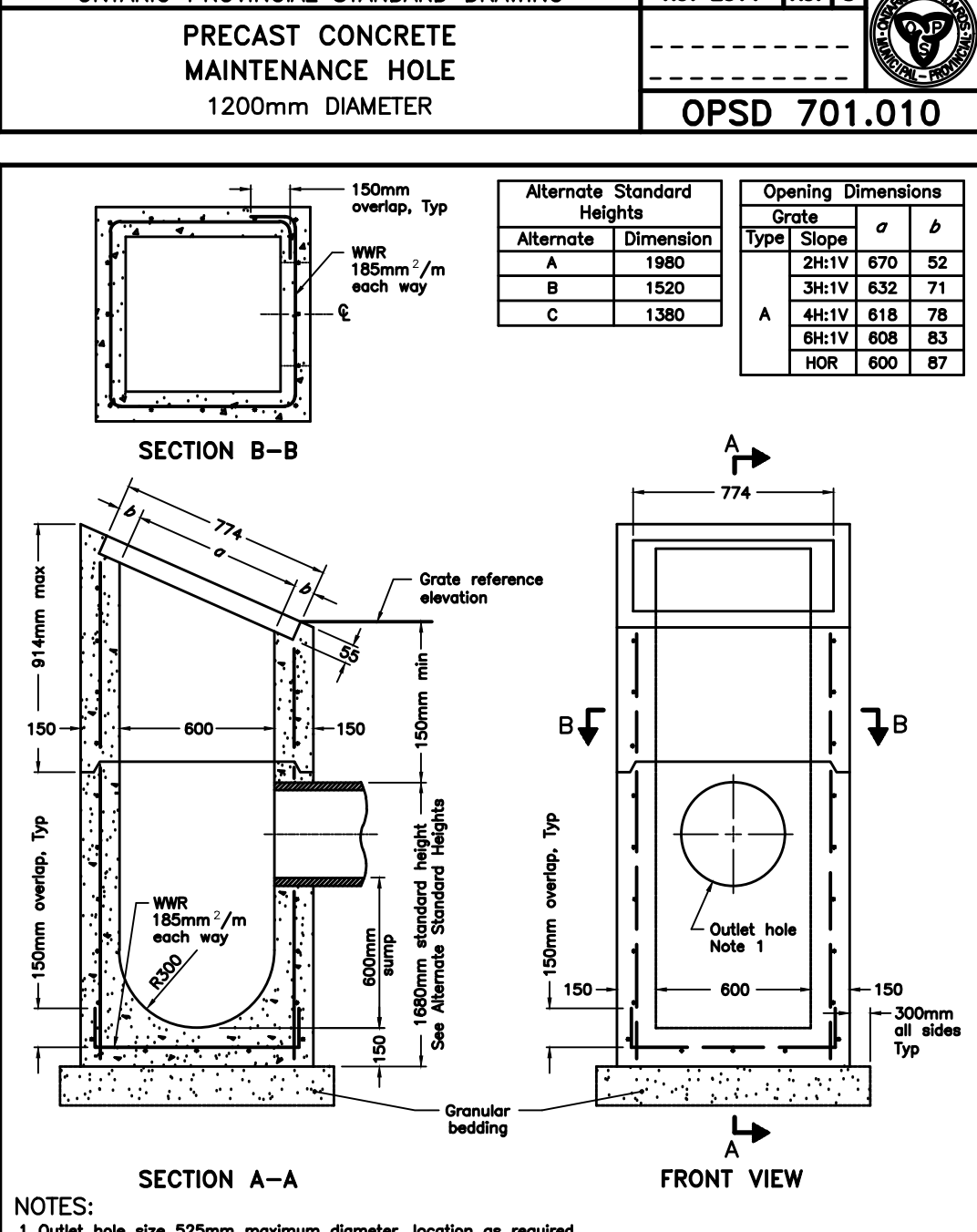
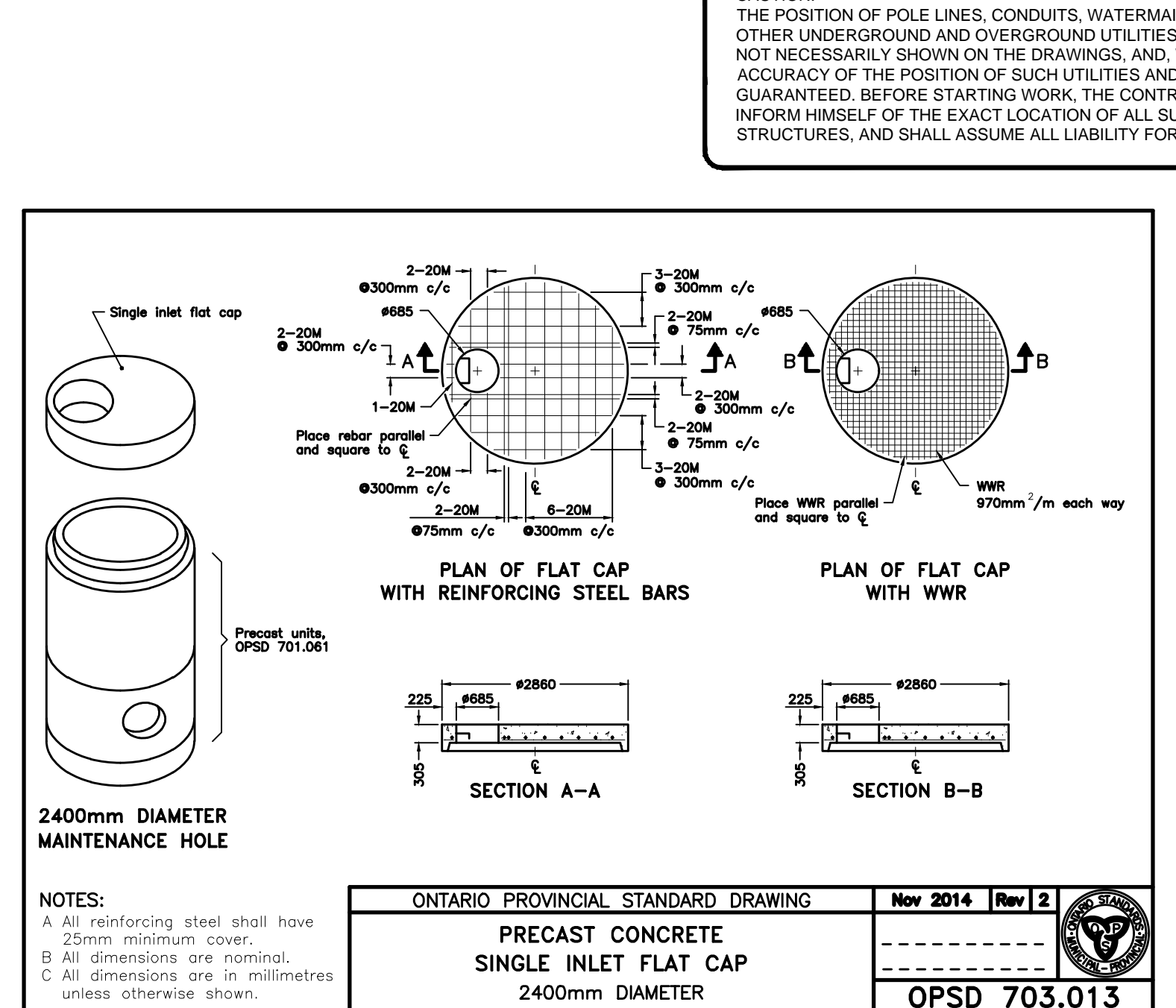
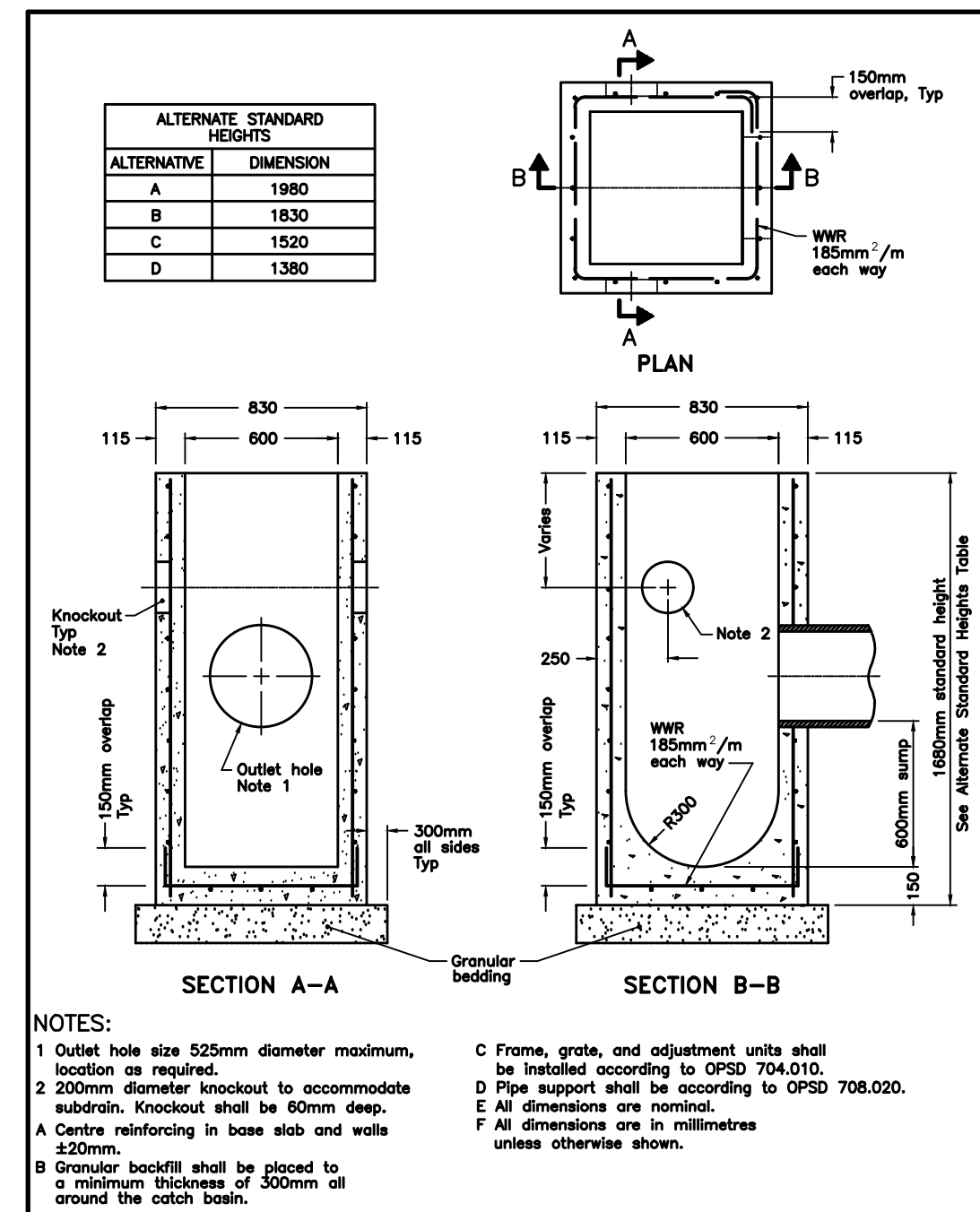
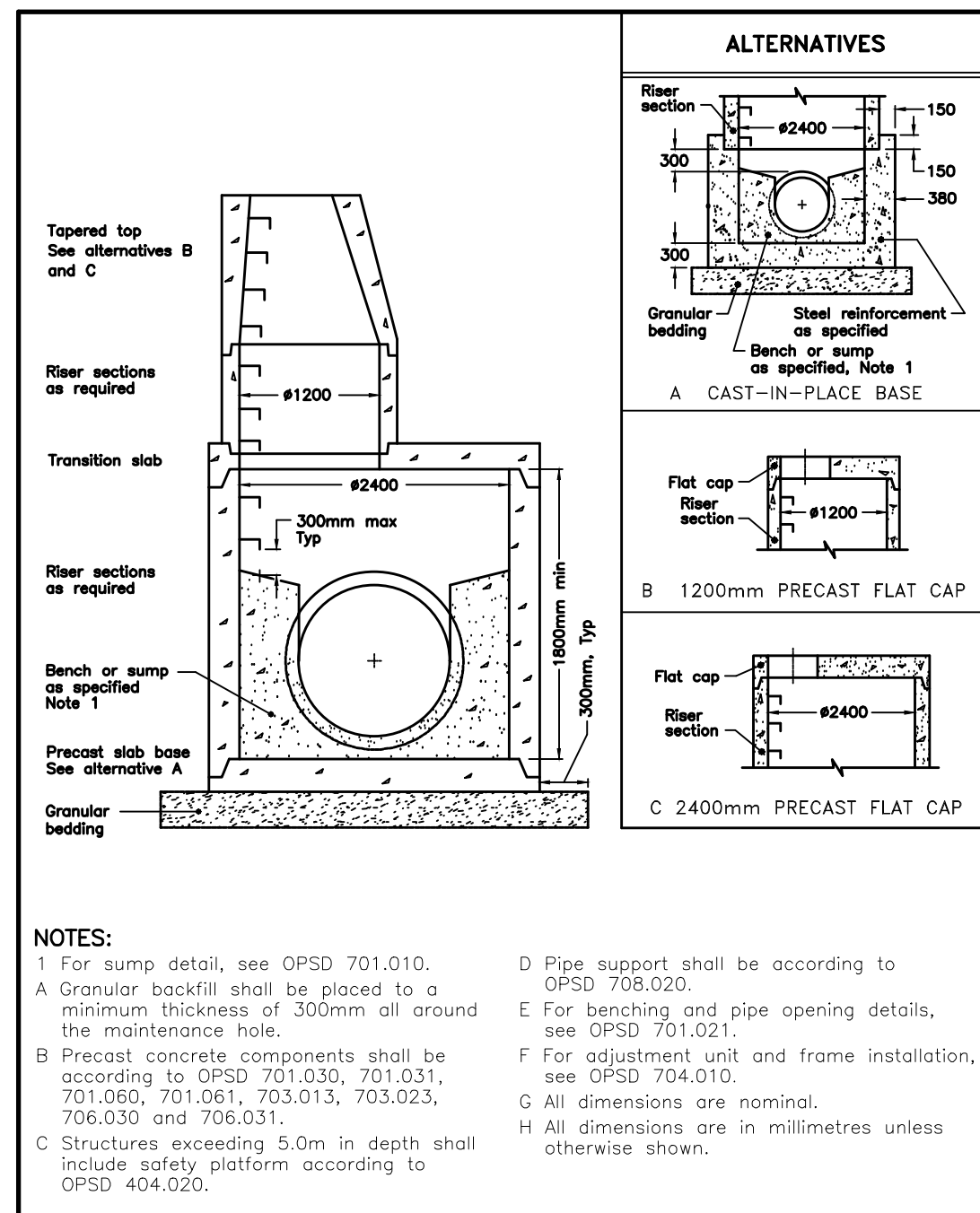
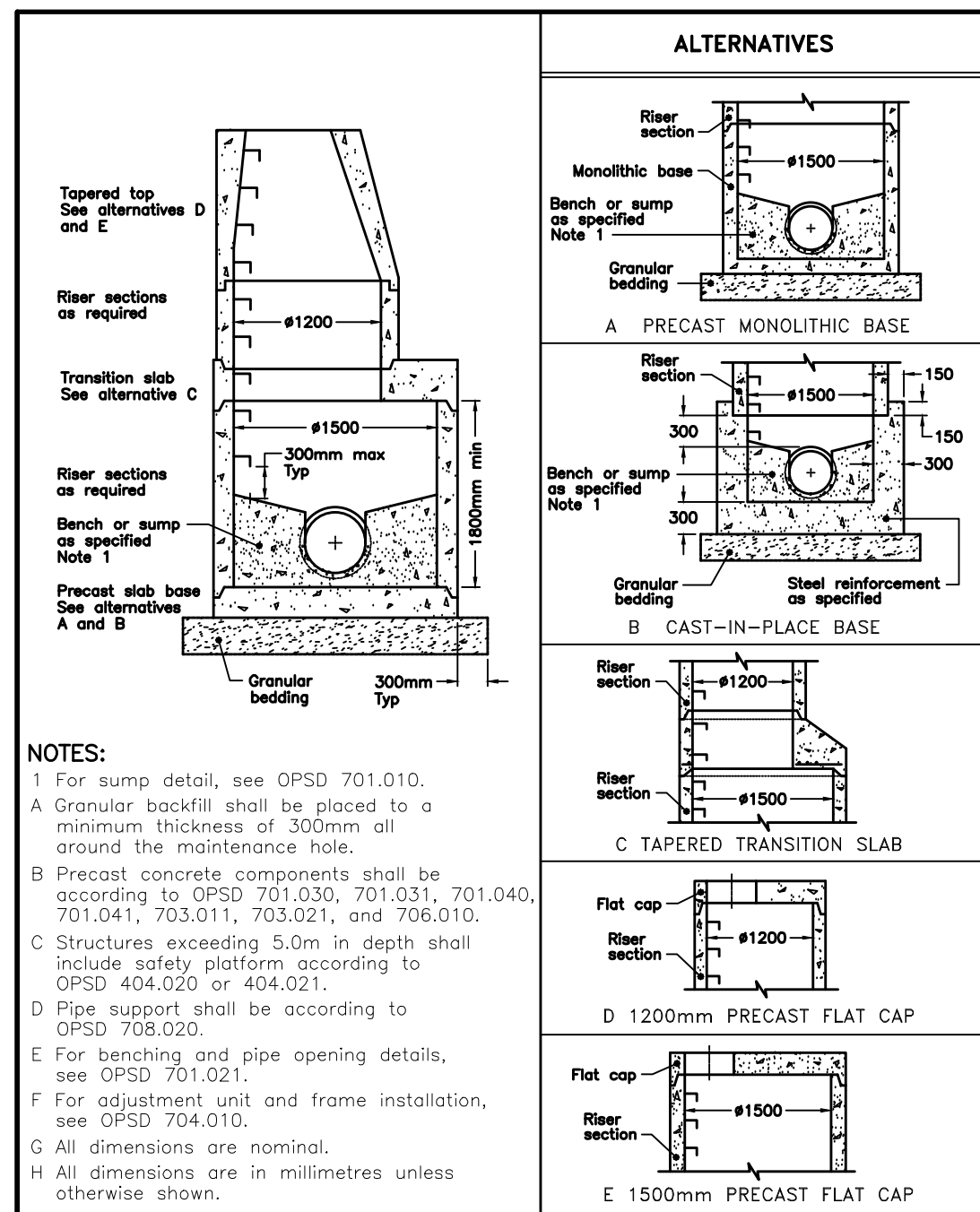
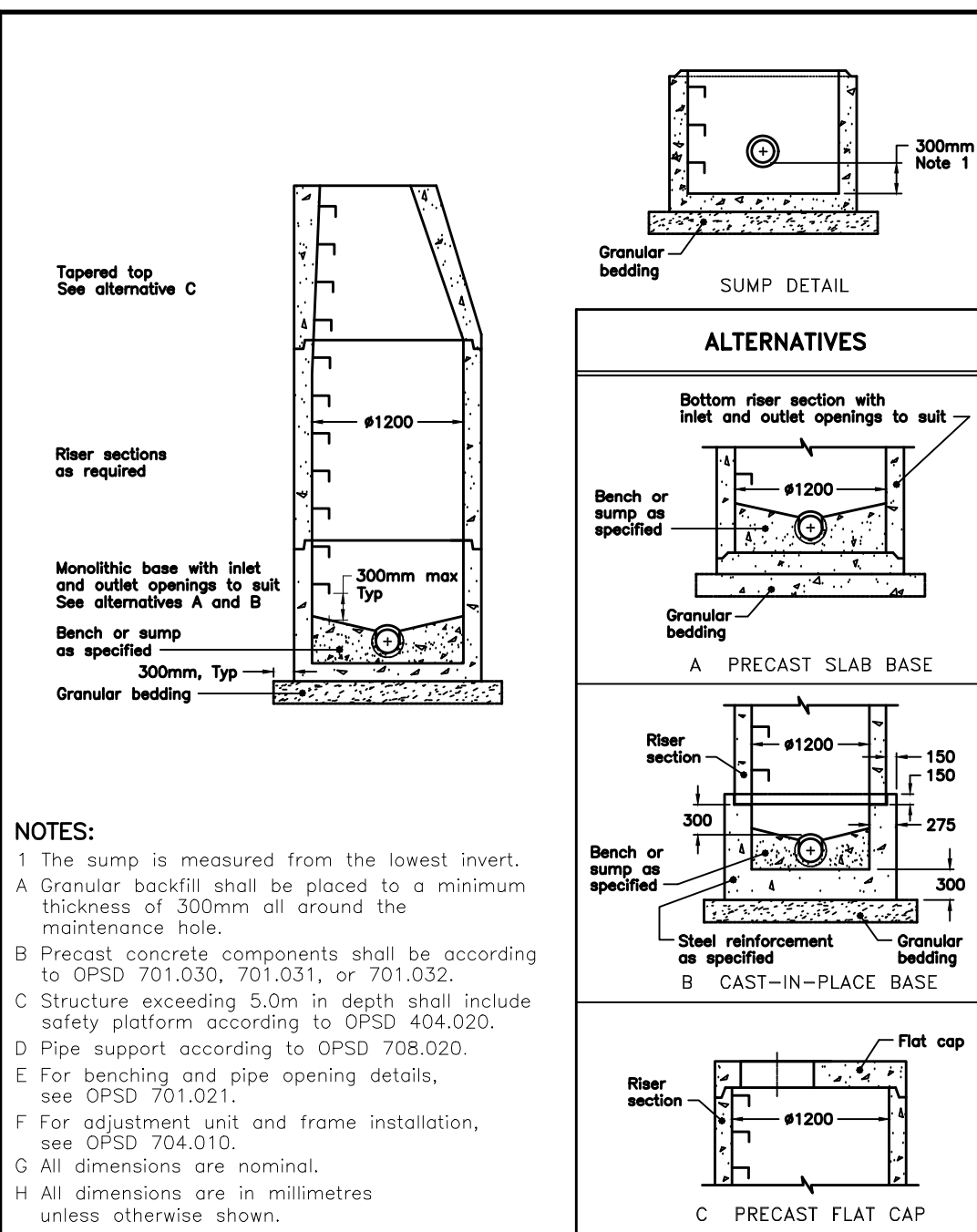
Title: **PROPOSED TOWNHOUSE DEVELOPMENT PRETTY RIVER ESTATES ENGINEERING STANDARDS, TYPICAL STREET CROSS SECTION & MISC DETAILS**

Client: **SUNVALE HOMES LTD.**

Design: TLB Scale: _____
Drawn: JAF Approved: _____
Checked: SJC
Date: JUN 2021 Design Engineer

DRAWING No. 00703-DET1

CAUTION:
THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.



No.	DATE	DESCRIPTION	BY	APPD
1	MAY 2022	SECOND SUBMISSION	TLB	SJC
0	NOV 08/21	FOR PRE-CONSULTATION	TLB	SJC

REVISION / ISSUE

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LICENSED PROFESSIONAL ENGINEER
T. L. BURNSIDE
100199868
PROVINCE OF ONTARIO

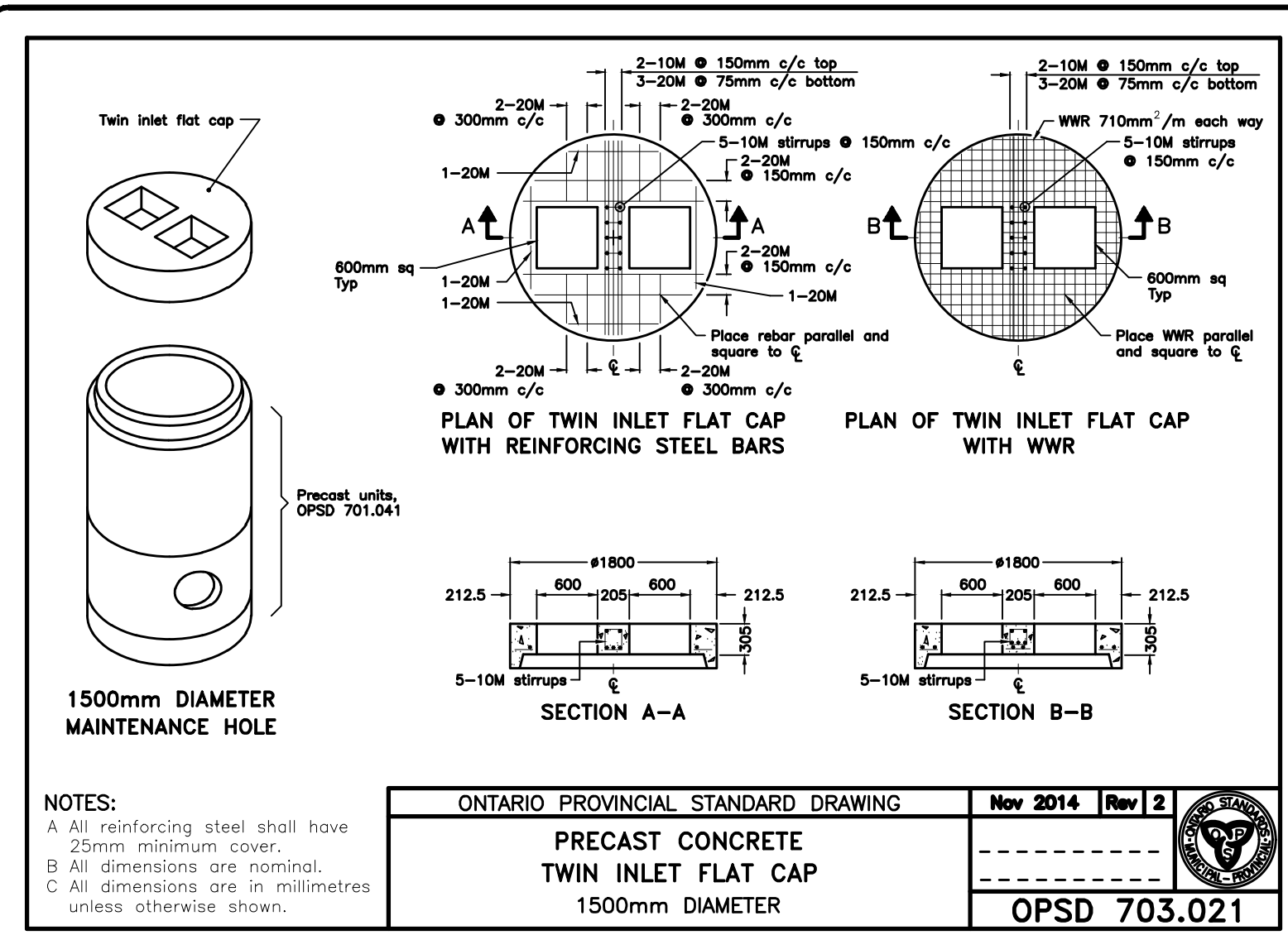
COBIDE ENGINEERING INC.
517 10th Street, Hanover, Ontario N4N 1R4
Telephone: (519) 506-5959
www.cobideeng.com

PROPOSED TOWNHOUSE DEVELOPMENT
PRETTY RIVER ESTATES
MISCELLANEOUS DETAILS 2

Client: SUNVALE HOMES LTD.

Design: TLB
Scale:
Drawn: JAF
Approved:
Checked: SJC
Date: JUN 2021
Drawing No. 00703-DET1

C:\Users\Draw\OneDrive\Documents\Projects\186228\00703 Base Nov 8-21.dwg May 20, 2022 - 9:57:00



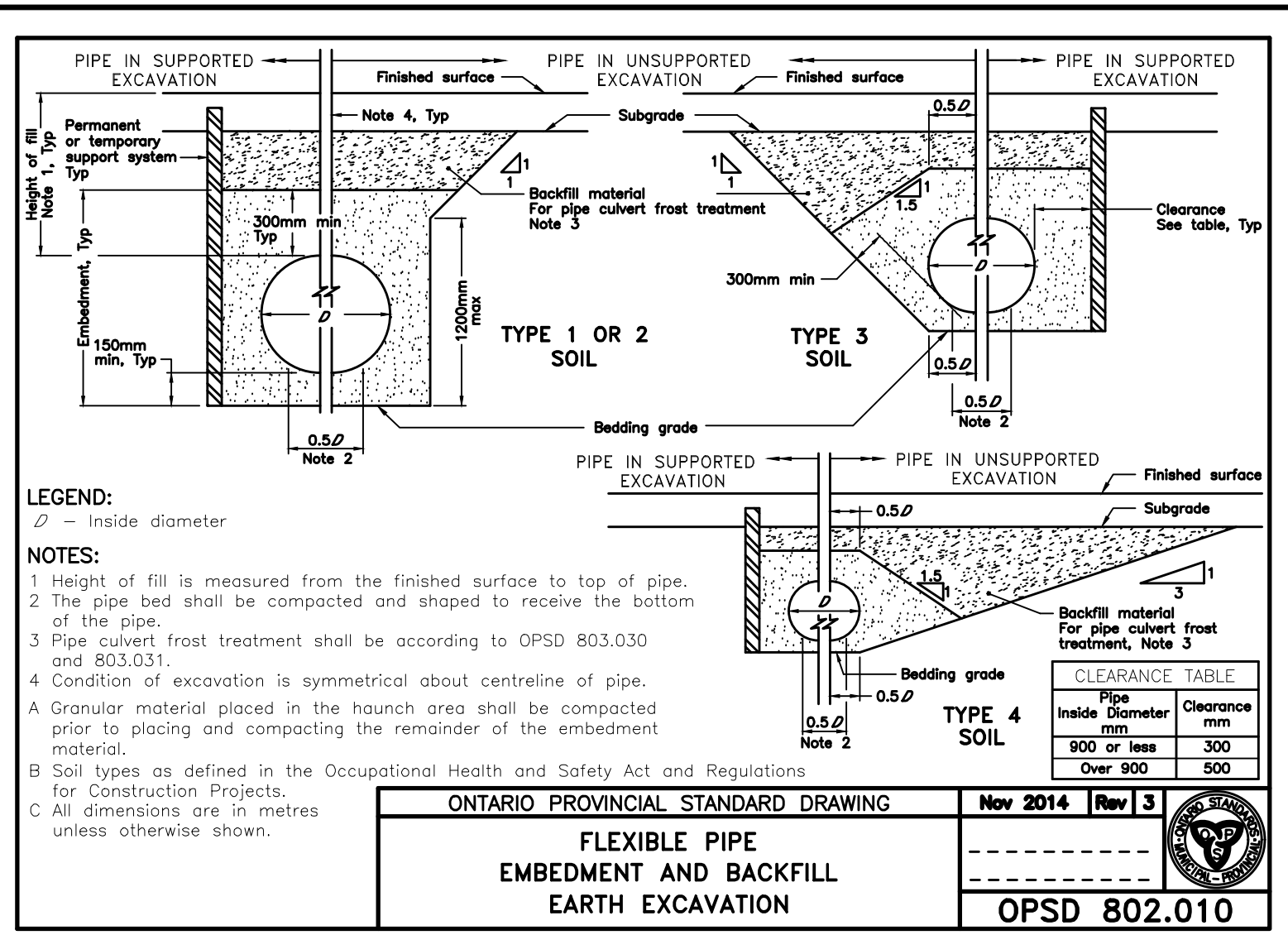
1500mm DIAMETER MAINTENANCE HOLE

NOTES:
 A All reinforcing steel shall have 25mm minimum cover.
 B All dimensions are nominal.
 C All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 2

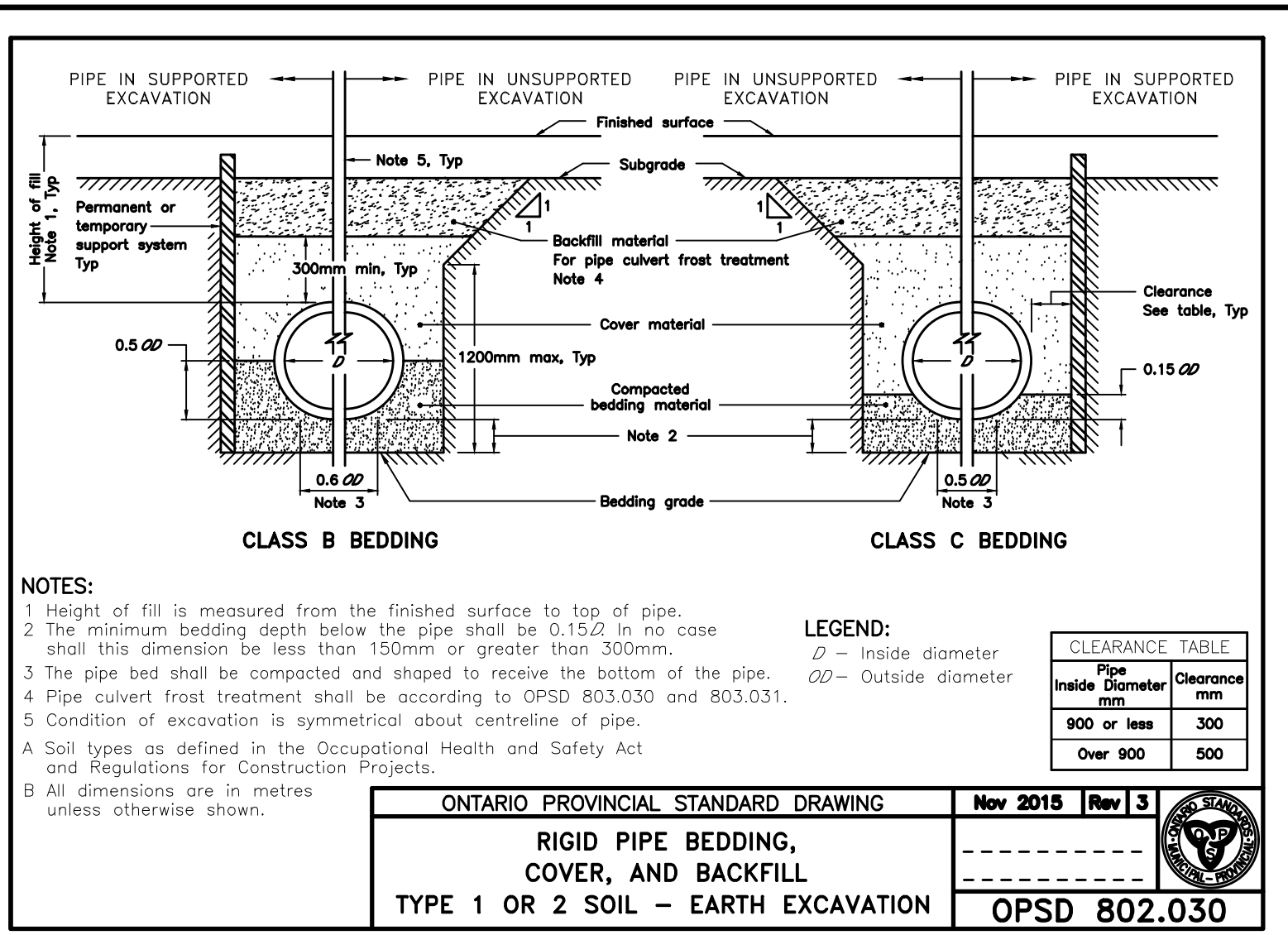
PRECAST CONCRETE TWIN INLET FLAT CAP
1500mm DIAMETER

OPSD 703.021



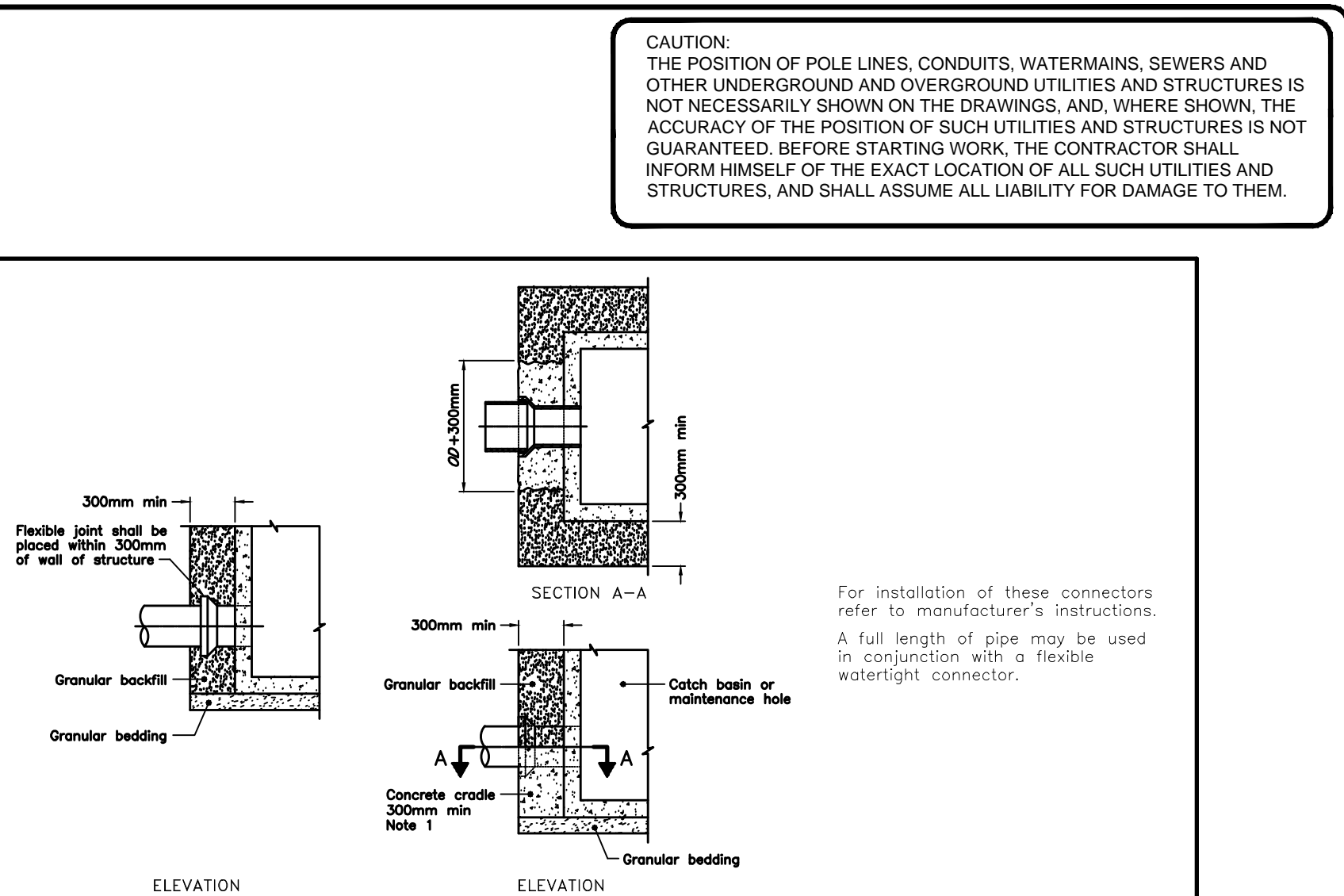
FLEXIBLE PIPE EMBEDMENT AND BACKFILL
EARTH EXCAVATION

OPSD 802.010



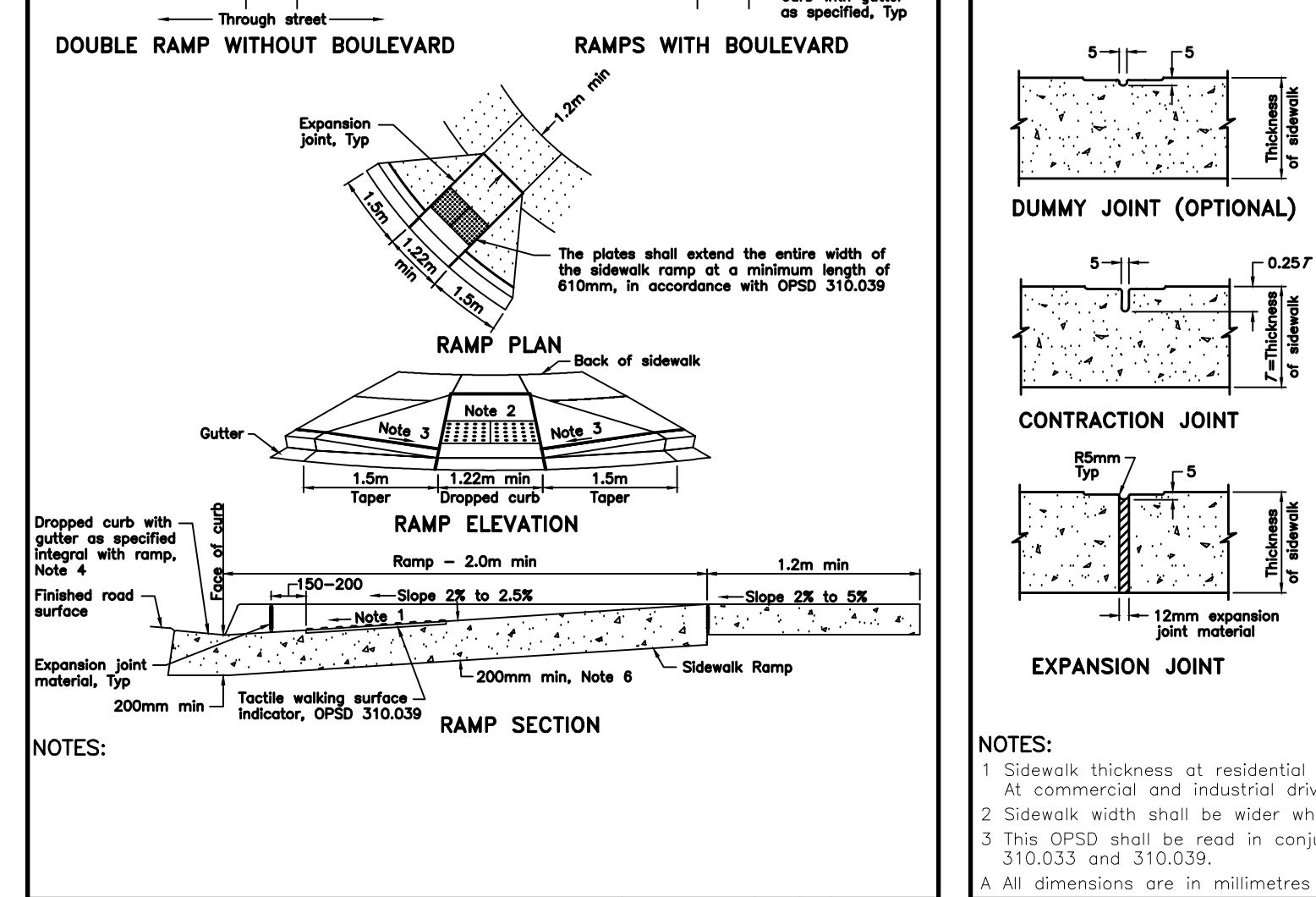
RIGID PIPE BEDDING, COVER, AND BACKFILL
TYPE 1 OR 2 SOIL - EARTH EXCAVATION

OPSD 802.030



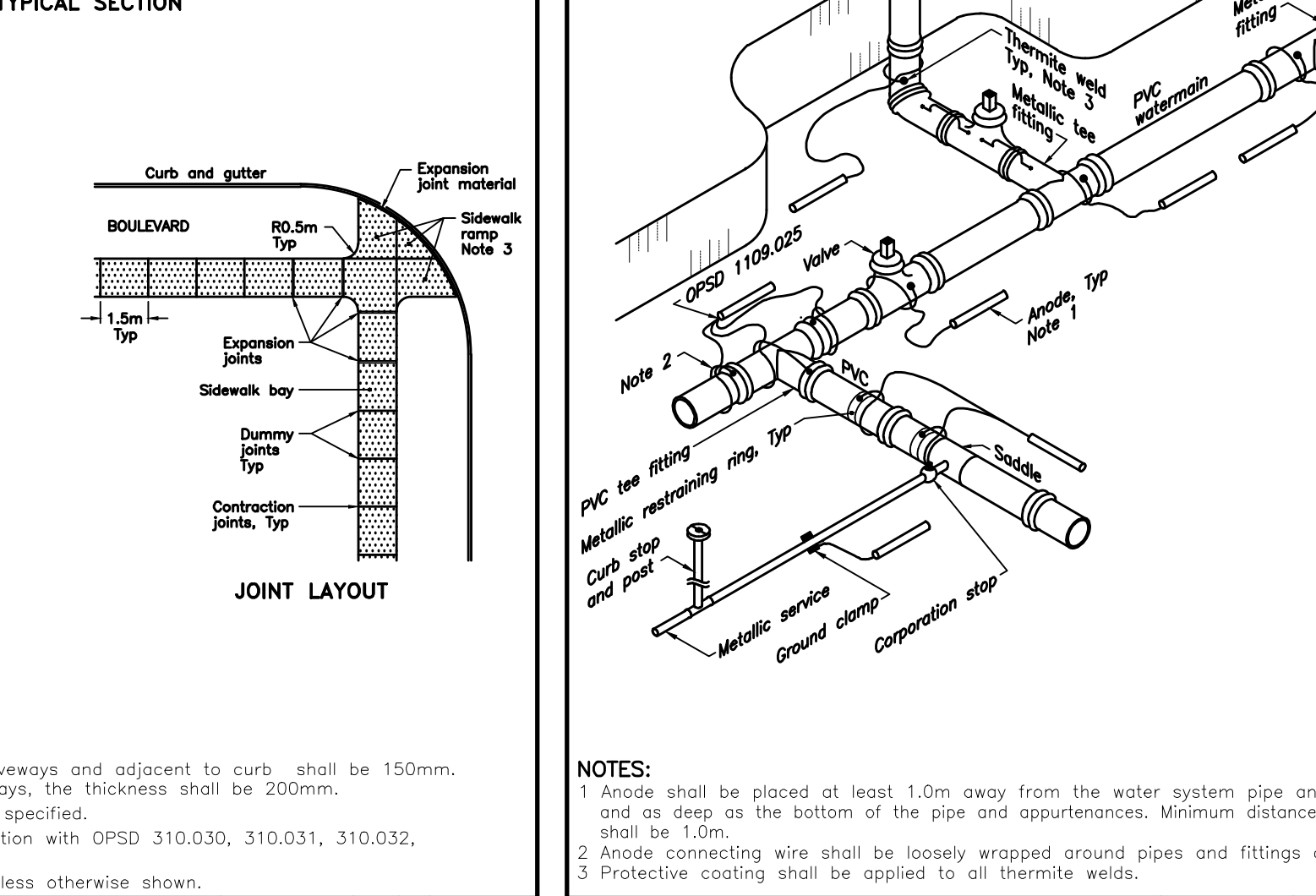
FLEXIBLE, WATERTIGHT CONNECTOR
RIGID AND FLEXIBLE PIPE

OPSD 708.020



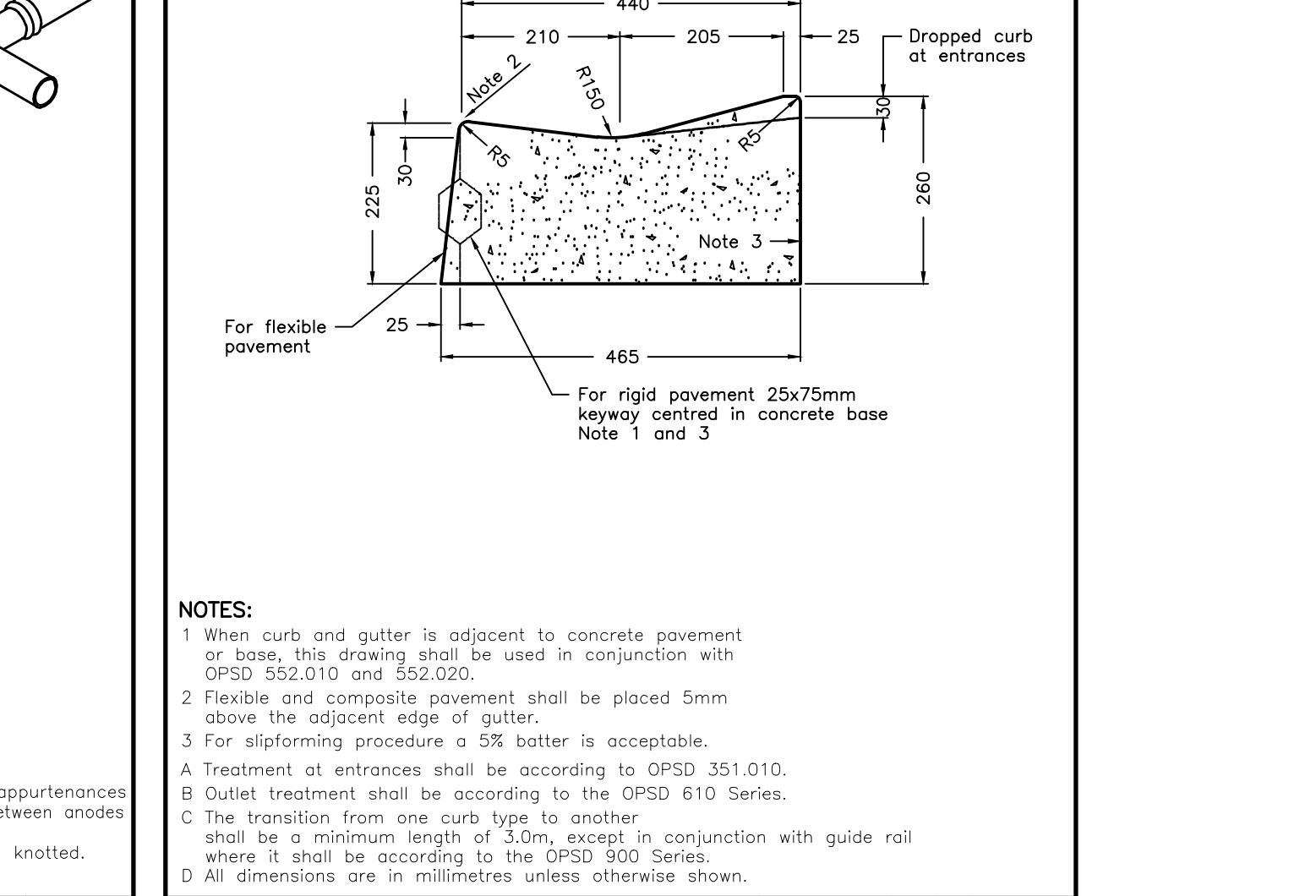
CONCRETE SIDEWALK RAMP AT UNSIGNALIZED INTERSECTIONS

OPSD 310.033



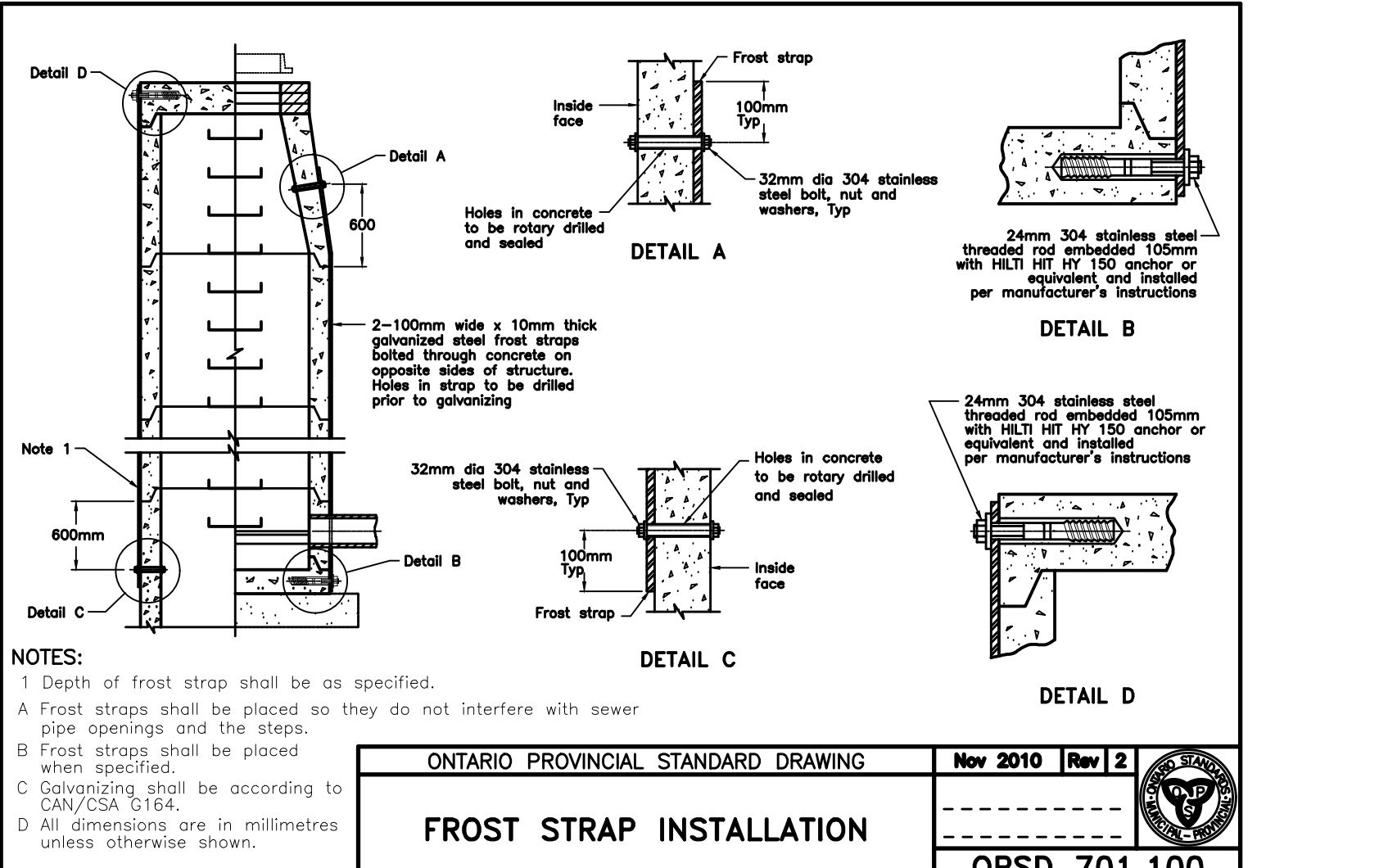
CONCRETE SIDEWALK

OPSD 310.010



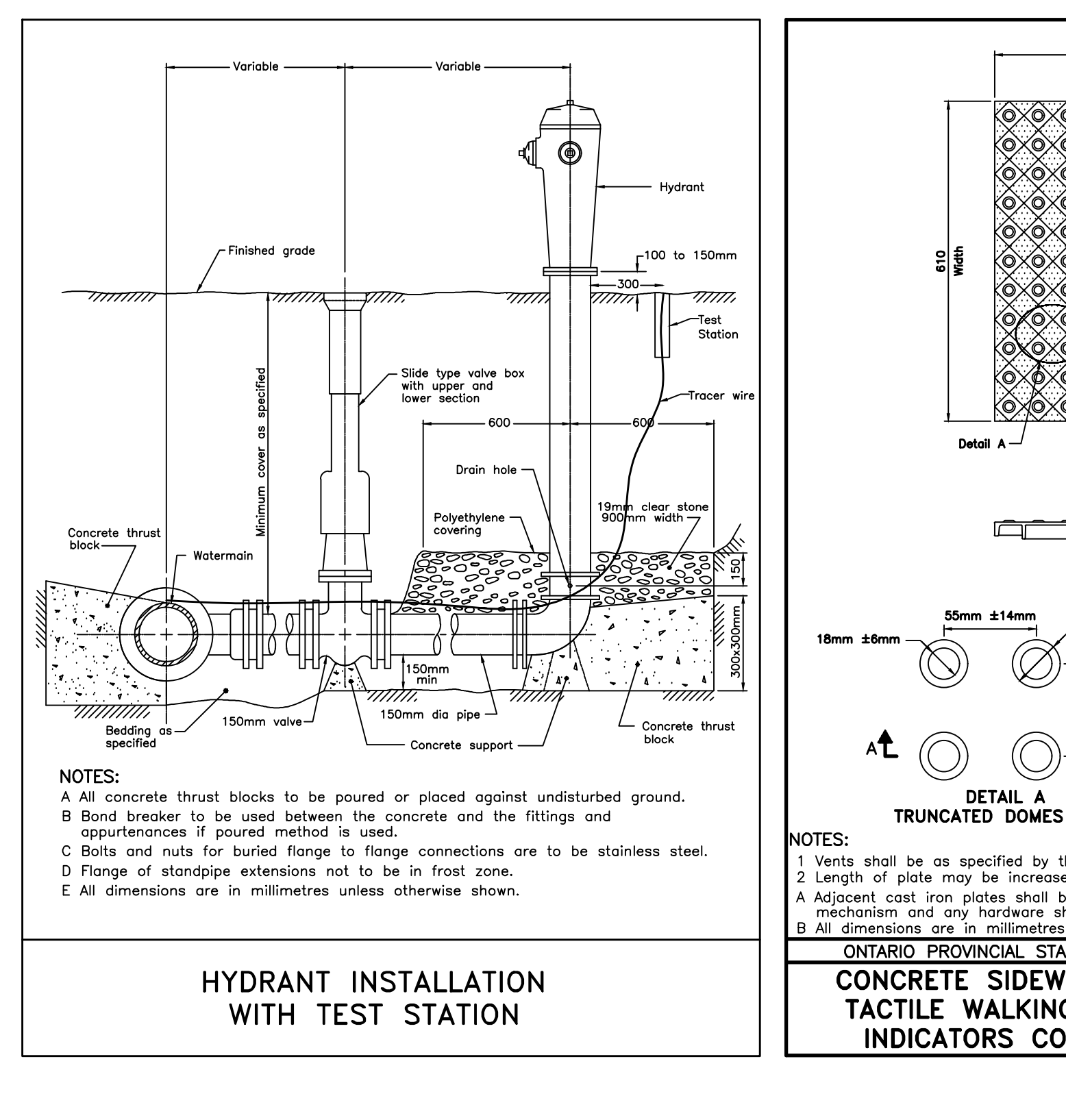
CATHODIC PROTECTION FOR PVC WATERMAIN SYSTEMS

OPSD 1109.011



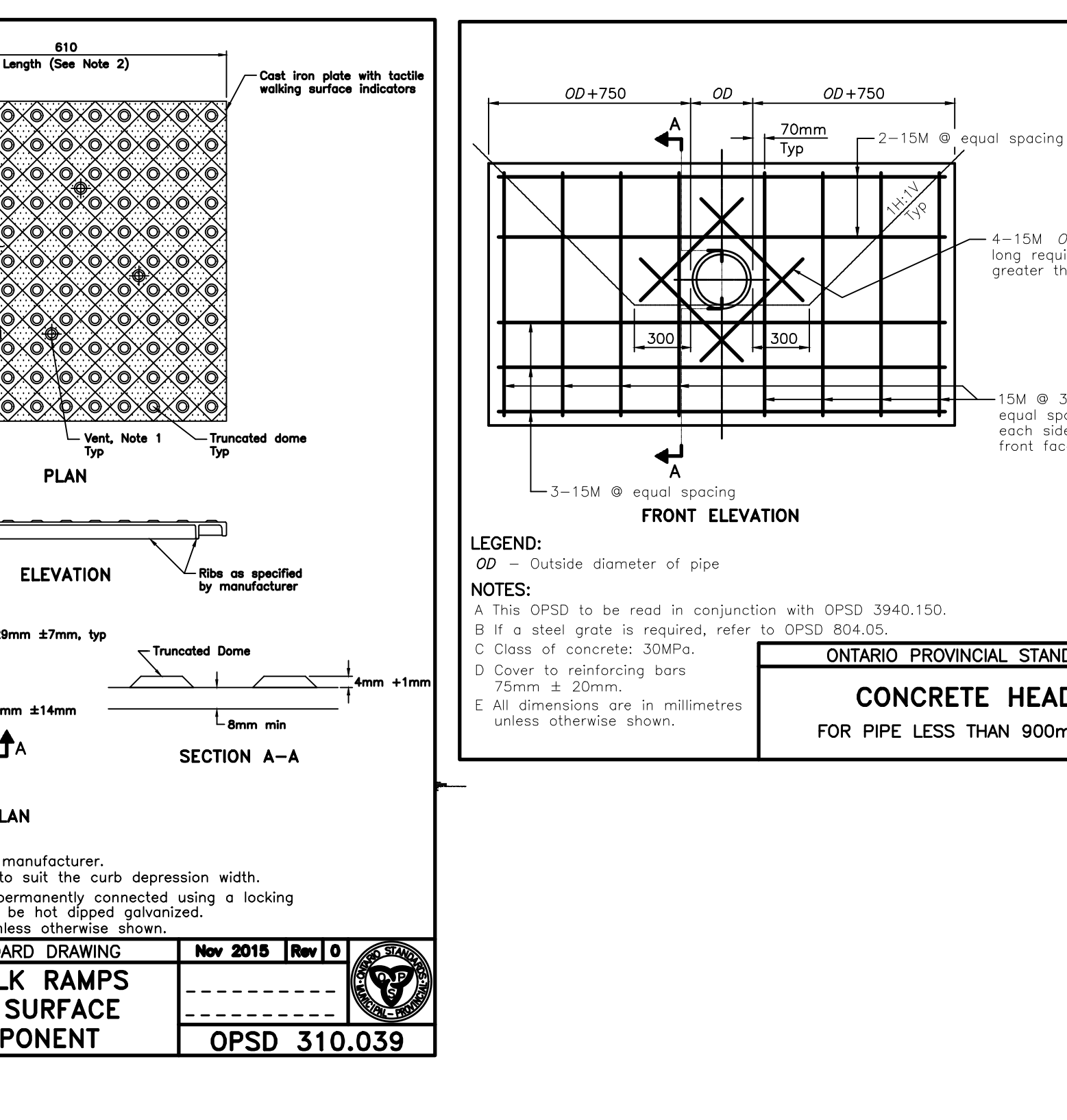
FROST STRAP INSTALLATION

OPSD 701.100



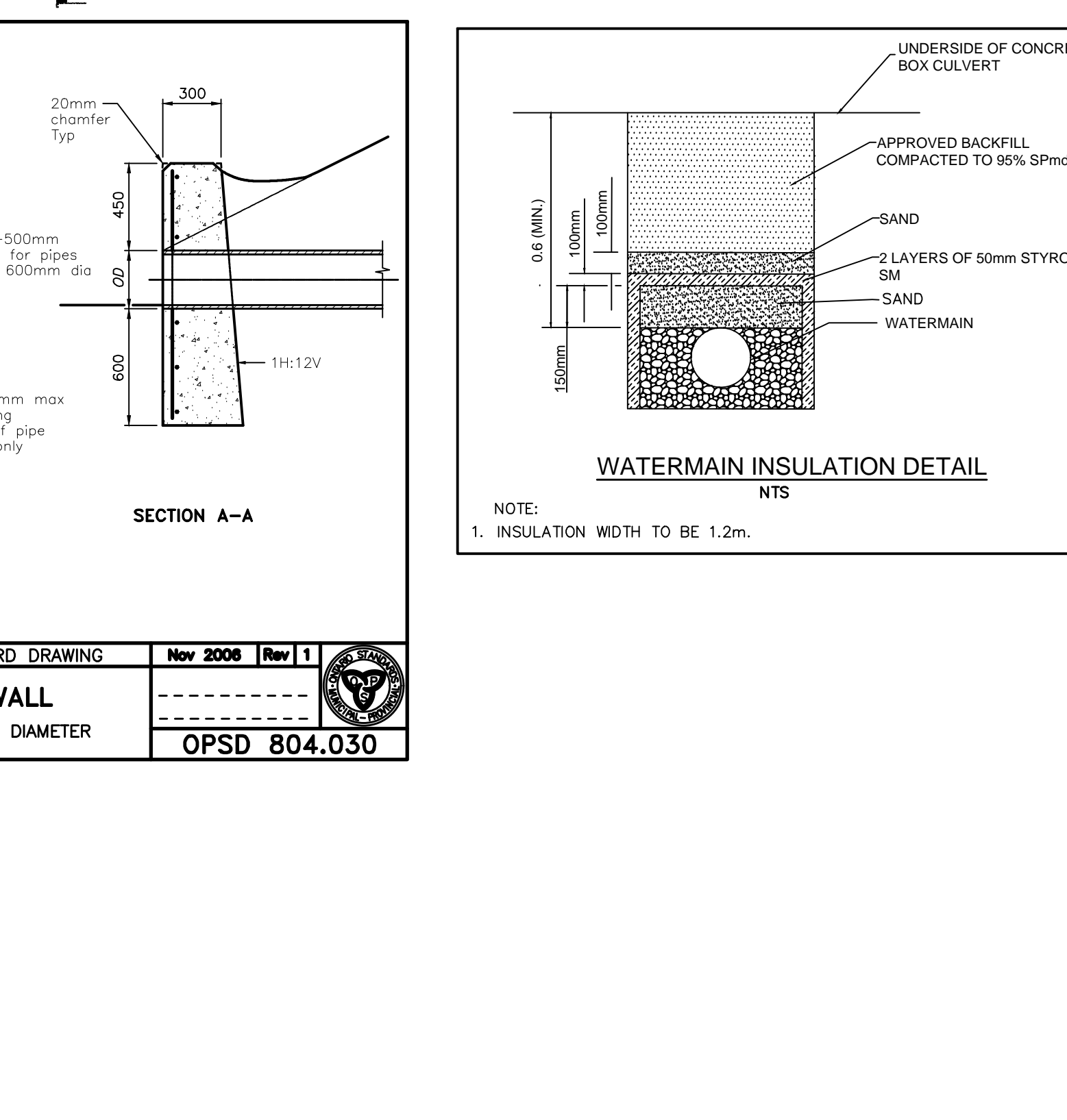
HYDRANT INSTALLATION WITH TEST STATION

OPSD 310.039



CONCRETE SIDEWALK RAMP TACTILE WALKING SURFACE INDICATORS COMPONENT

OPSD 310.039



CONCRETE HEADWALL FOR PIPE LESS THAN 900mm DIAMETER

OPSD 804.030

ACCEPTED FOR CONSTRUCTION
Town of Collingwood

per _____
Date: _____

1	MAY 2022	SECOND SUBMISSION	TLB	SJC
0	NOV 08/21	FOR PRE-CONSULTATION	TLB	SJC
No.	DATE	DESCRIPTION	BY	APPD
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SUNVALE HOMES

PROPOSED TOWNHOUSE DEVELOPMENT
PRETTY RIVER ESTATES
MISCELLANEOUS DETAILS 2

Client: **SUNVALE HOMES LTD.**

Design: TLB
 Drawn: JAF
 Checked: SJC
 Date: JUN 2021

Scale: _____
 Approved: _____
 Design Engineer

DRAWING No. 00703-DET3