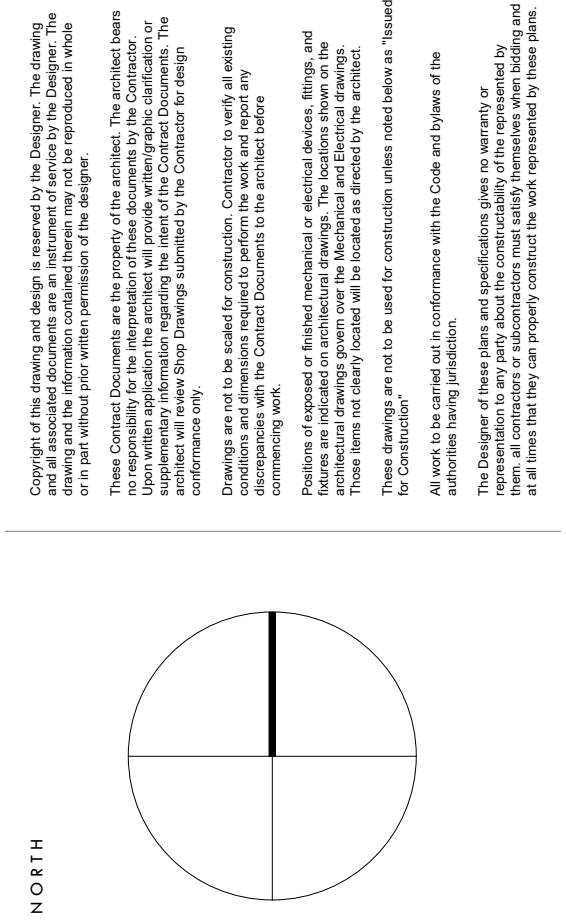


P2025-08 Appendix B: Site Plan Drawings



NO.	DESCRIPTION	DATE
1	ISSUED FOR PRE-COMPLETION	2021-02-02
2	ISSUED FOR PRE-COMPLETION	2021-02-02
3	ISSUED FOR PRE-COMPLETION	2021-02-02
4	ISSUED FOR PRE-COMPLETION	2021-02-02
5	ISSUED FOR PRE-COMPLETION	2021-02-02

SITE PLAN

THE TERRAZZO

Dawson Drive, Collingwood ON

SCALE: As Indicated

DATE: 2024-12-18 5:00:37 PM

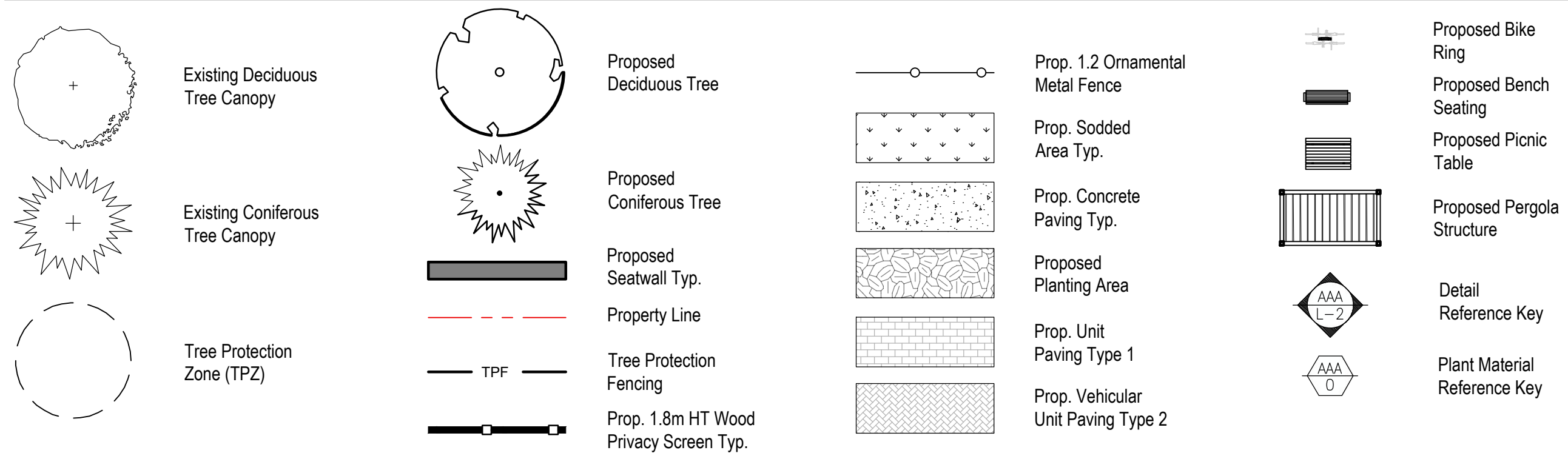
DRAWN: J.H.

CHECKED: J.C.

PROJECT NUMBER: 21019

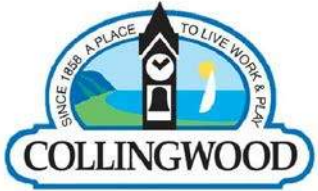
SHEET: A100.0

Legend



Architect:

Municipality:



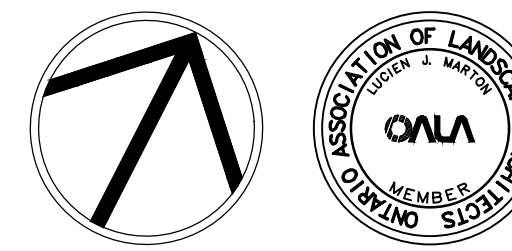
Client/Owner:

Notes:

14	Issued for Resubmission	04/07/25
13	Issued for Resubmission	12/13/24
12	Issued for Resubmission	04/30/24
11	Issued for Coordination	04/11/24
10	Issued for Coordination	03/26/24
09	Issued for Coordination	01/25/24
08	Issued for Resubmission	08/30/22
07	Issued for Review	06/08/22
06	Issued for Review	05/17/22
05	Issued for Review	04/04/22
04	Issued for Resubmission	02/09/22
03	Issued for Review	01/13/22
02	Issued for Submission	07/13/21
01	Issued for Review	06/22/21

No. Revision Date

North: Stamp:



Project:
Proposed Residential Development
11283 Hwy 26 - Dawson Drive
Collingwood, Ontario

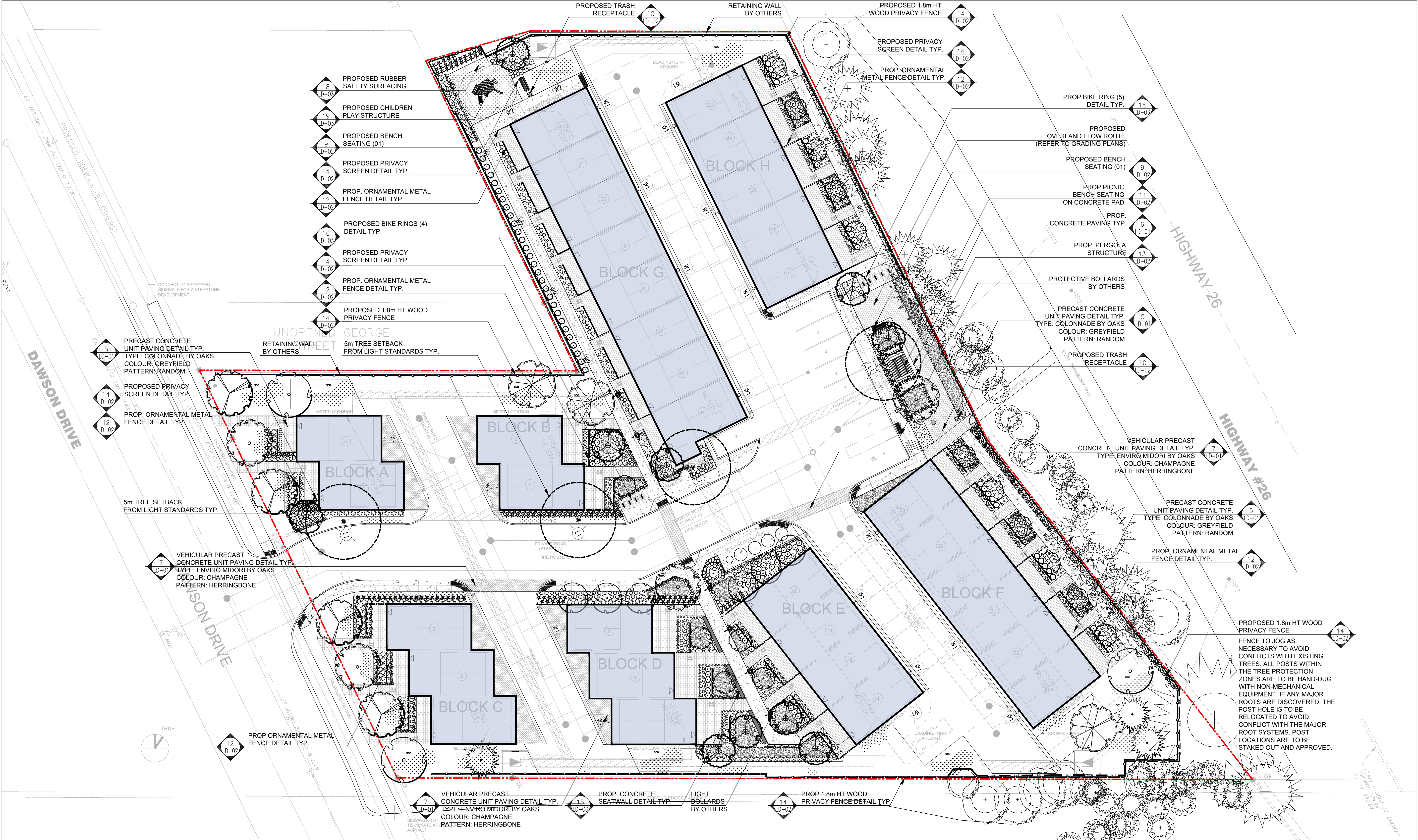
Scale: 1:250 Date: Jun 2021

Drawn By: S.P. Checked By: L.M.

Drawing Title:

Landscape Plan

Project No. 21139
Sheet No. L1-01

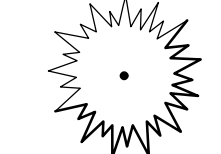


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Legend



Proposed Deciduous Tree



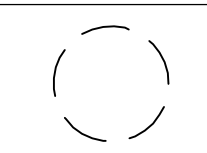
Proposed Coniferous Tree



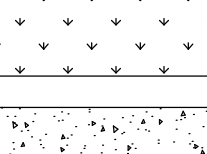
Existing Tree Canopy



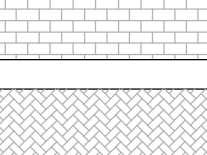
Tree Protection Fencing



Property Line



Prop. Sodded Area Typ.



Prop. Concrete Paving Typ.



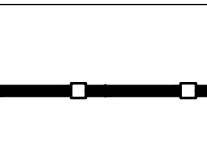
Prop. Unit Paving Type 1



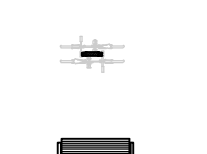
Prop. Vehicular Unit Paving Type 2



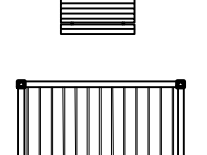
Proposed Planting Area



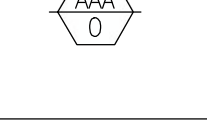
Prop. 1.8m HT Wood Privacy Screen Typ.



Prop. 1.2 Ornamental Metal Fence



Proposed Bike Ring



Proposed Bench Seating



Proposed Picnic Table



Proposed Pergola Structure



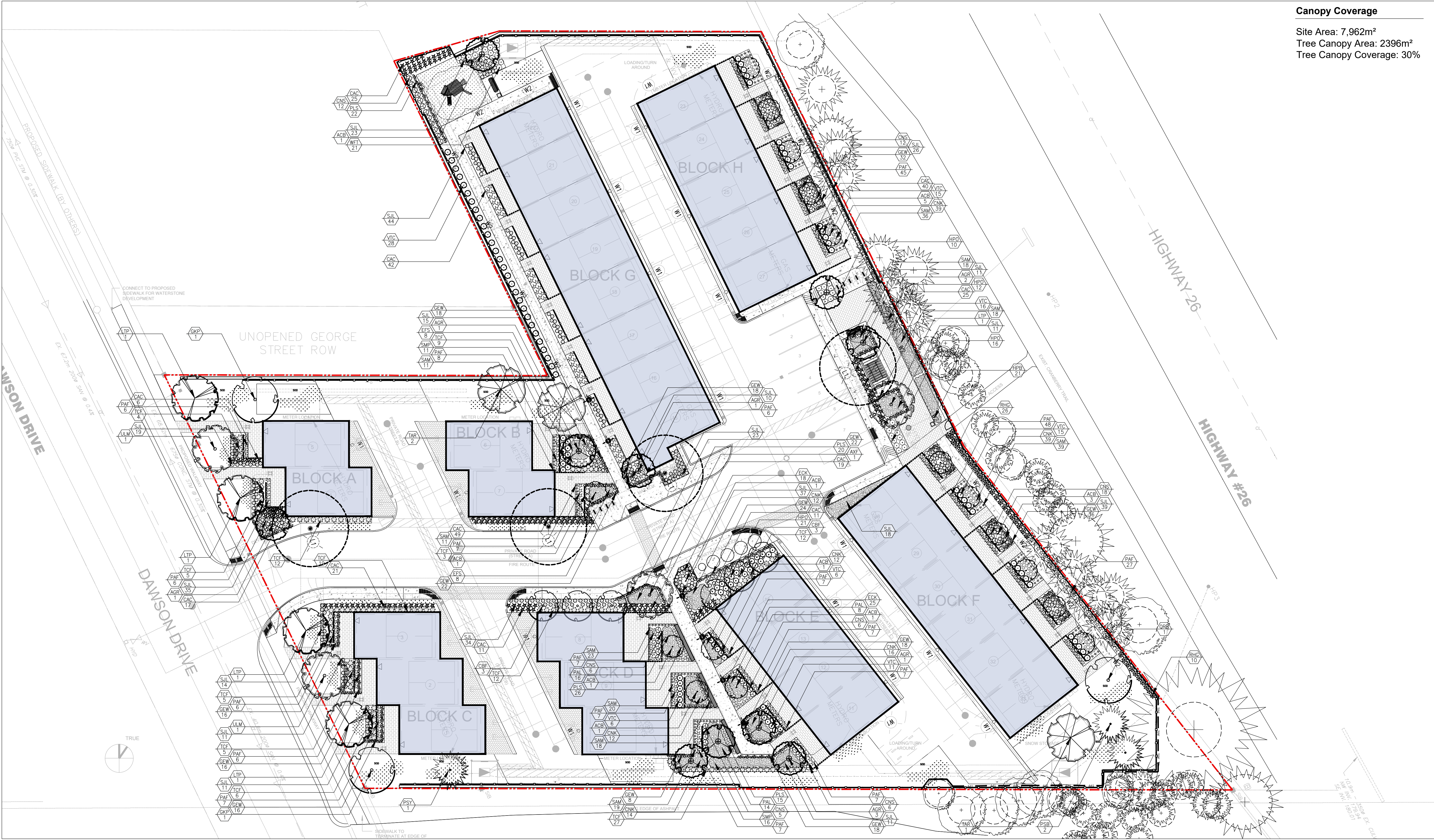
Plant Material Reference Key

Suggested Plant Material List

KEY	QNTY	BOTANICAL NAME	COMMON NAME	HT/CAL	SPREAD	ROOT	DROUGHT TOLERANT	NATIVE	REMARKS
DECIDUOUS TREES									
AYF	1	Acer x freemanii 'Jeffersred'	Jeffersred Freeman Maple	70 mm		8.8B	Yes	Yes	Full Form
ORB	1	Quercus rubra	Red Oak	70 mm		8.8B	Yes	Yes	Full Form
AGR	9	Betula nigra	River Birch	70 mm		8.8B	High	Yes	Tree Form
CBF	6	Cornus betulus 'Trans Fontaine'	Columnar Hornbeam	70 mm		8.8B	High	Yes	Narrow Form
LTP	5	Calla occidentalis	Hackberry	70 mm	cream	8.8B	Yes	Yes	Full Form
GKP	2	Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Maidenhair Tree	70 mm		8.8B	High	Yes	Full Form
ULM	2	Ulmus 'Mortoni' (Accolade)	Accolade Elm	70 mm		8.8B	High	Yes	Full Form
TAR	2	Tilia Americana 'Redmond'	Redmond Basswood	70 mm		8.8B	High	Yes	Full Form
CONIFEROUS TREES									
PSB	2	Pinus strobus	White Pine	200 cm		8.8B	Yes	Yes	Full Form
PSY	1	Pinus nigra	Austrian Pine	200 cm		8.8B	Yes	No	Full Form
CONIFEROUS SHRUBS									
TDF	119	Taxus x media 'Fairview'	Fairview Yew		65 cm	3 Gal.	Yes	No	Full Form
ORNAMENTAL GRASSES									
CAC	266	Calamagrostis acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass			5 Gal.	Yes	No	Full Form
PAF	221	Deschampsia cespitosa	Tufted Hair Grass			2 Gal.	Yes	No	Full Form
PAL	38	Pennisetum alopecuroides 'Hameln'	Hameln Dwarf Fountain Grass			2 Gal.	Yes	No	Full Form

KEY	QNTY	BOTANICAL NAME	COMMON NAME	HT/CAL	SPREAD	ROOT	DROUGHT TOLERANT	NATIVE	REMARKS
DECIDUOUS SHRUBS									
ACB	15	Amelanchier canadensis 'Ballerina'	Ballerina Serviceberry	200 cm		3 gal.	High	Yes	Multi Stem
CNK	144	Cornus sericea 'Kelsey'	Kelsey Red Osier Dogwood	60 cm		3 gal.	Yes	Yes	Full Form
CNS	65	Cornus sericea 'Tarrow'	Atlic Fire Dogwood	60 cm		3 gal.	High	Yes	Full Form
EFS	16	Euonymus fortunei 'Sarcocoe'	Sarcocoe Euonymus			3 gal.	Yes	No	Full Form
HPB	21	Hydrangea paniculata 'Bomabell'	Dwarf Bomabell Hydrangea	60 cm		3 gal.	No	No	Full Form
HPO	59	Hydrangea paniculata 'Peegee'	Peegee Hydrangea	60 cm		3 gal.	No	No	Full Form
RHC	36	Rhus aromatica 'Gro-Low'	'Gro-Low' Fragrant Sumac	60 cm		3 gal.	High	Yes	Full Form
SIL	392	Spiraea japonica 'Little Princess'	Dwarf Red Spirea	60 cm		3 gal.	Yes	Yes	Full Form
SMP	27	Syringa meyeri 'Palibin'	Purple Dwarf Korean Lilac	60 cm		3 gal.	Yes	No	Full Form
VTC	97	Diervilla lonicera	Bush Honeysuckle	70 cm		3 gal.	Yes	Yes	Full Form
WIT	21	Weigela florida 'Tango'	Tango Weigela	60 cm		3 gal.	No	No	Full Form
PERENNIALS									
ECK	43	Echinacea purpurea 'Kim's Knee High'	Dwarf Purple Cone Flower			2 Gal.	Yes	No	Full Form
GEW	264	Geranium sanguineum 'Alba'	White Hardy Geranium			2 Gal.	No	No	White Flowers
PLS	83	Perovskia atriplicifolia 'Little Spire'	Little Spire Russian Sage			2 Gal.	Yes	No	Full Form
SAM	213	Salvia x sylvestris 'May Night'	May Night Salvia			2 Gal.	Yes	No	Full Form

ALL QUANTITIES IN THE LIST OF PLANT MATERIALS ARE TO BE CHECKED BY THE LANDSCAPE CONTRACTOR. ANY DISCREPANCIES ARE TO BE REPORTED TO THE LANDSCAPE ARCHITECT. THE QUANTITIES INDICATED ON THE DRAWINGS SUPERCEDE THE TOTAL QUANTITIES



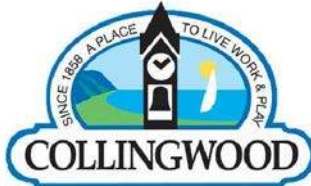


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Municipality:



Client/Owner:

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No. Revision Date

North: Stamp:



Project:
Proposed Residential Development
11283 Hwy 26 - Dawson Drive
Collingwood, Ontario

Scale: 1:250 Date: Jun 2021

Drawn By: S.P. Checked By: L.M.

Drawing Title:

Planting Plan

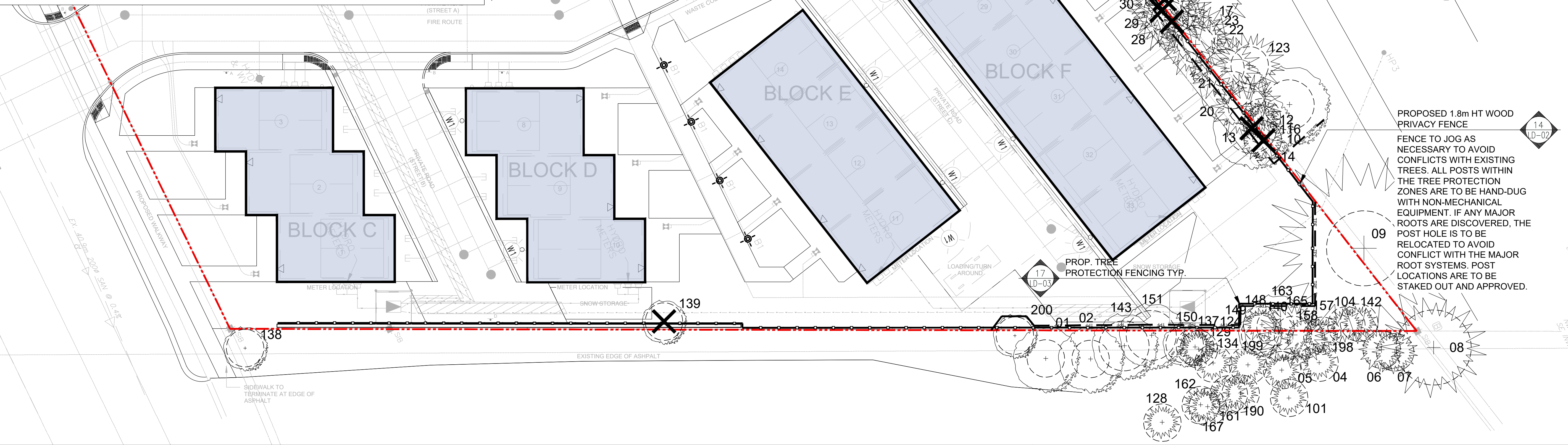
Project No. 21139 Sheet No. L2-01

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Table 1. Tree Inventory and Assessment

Tree Tag Number	Tree Identification (GPS)	Species		DBH (cm)	Canopy Radius (m)	Condition	Impacts	Justification/Recommendation
		Common Name	Latin Name					
001	1184	Green Ash	<i>Fraxinus pennsylvanica</i>	23	3	Fair	To be Preserved	None
002	1185	Green Ash	<i>Fraxinus pennsylvanica</i>	17	3	Fair	To be Preserved	None
004	1193 ¹	White Cedar	<i>Thuja occidentalis</i>	17	2	Good	To be Preserved	None
005	1190	White Cedar	<i>Thuja occidentalis</i>	15	1.5	Good	To be Preserved	None
006	1192	White Cedar	<i>Thuja occidentalis</i>	17	3	Good	To be Preserved	None
007	1193	White Cedar	<i>Thuja occidentalis</i>	22	3	Good	To be Preserved	None
008	1194 ¹	Scotch Pine	<i>Pinus sylvestris</i>	36	6	Fair	To be Preserved	None
009	1195 ¹	Scotch Pine	<i>Pinus sylvestris</i>	50	9	Fair	To be Preserved	None
010	1201 ¹	Balsam Poplar	<i>Populus balsamifera</i>	30	4	Good	To be Preserved	Impact to TPZ. Retain and monitor yearly for hazard conditions
012	1202 ¹	White Cedar	<i>Thuja occidentalis</i>	18	3	Good	To be Preserved	None
013	1219	White Cedar	<i>Thuja occidentalis</i>	18.5	2	Good	To be Preserved	Remove. Grading
014	1230	White Cedar	<i>Thuja occidentalis</i>	16, 17, 23	3	Good	To be Preserved	Remove. Grading
017	1236	White Cedar	<i>Thuja occidentalis</i>	17	3	Good	To be Preserved	Impact to TPZ. Retain and monitor yearly for hazard conditions
020	1200 ¹	White Cedar	<i>Thuja occidentalis</i>	19	4	Good	To be Preserved	Impact to TPZ. Retain and monitor yearly for hazard conditions
021	1199 ¹	Balsam Poplar	<i>Populus balsamifera</i>	28	3	Good	To be Preserved	Impact to TPZ. Retain and monitor yearly for hazard conditions
022	1198 ¹	White Cedar	<i>Thuja occidentalis</i>	23	3	Good	To be Preserved	Impact to TPZ. Retain and monitor yearly for hazard conditions
023	1235	White Cedar	<i>Thuja occidentalis</i>	16	4	Good	To be Preserved	Impact to TPZ. Retain and monitor yearly for hazard conditions
028	1237	White Cedar	<i>Thuja occidentalis</i>	16	4	Good	To be Preserved	Remove. Grading
029	1237	White Cedar	<i>Thuja occidentalis</i>	17	4	Good	To be Preserved	Remove. Grading
030	1237	White Cedar	<i>Thuja occidentalis</i>	16	4	Good	To be Preserved	Remove. Grading
031	1237	White Cedar	<i>Thuja occidentalis</i>	15	4	Good	To be Preserved	Impact to TPZ. Retain and monitor yearly for hazard conditions
032	1238	White Cedar	<i>Thuja occidentalis</i>	22	2	Good	To be Preserved	None
033	1239	White Cedar	<i>Thuja occidentalis</i>	23	2	Good	To be Preserved	Remove. Grading
034	1239	White Cedar	<i>Thuja occidentalis</i>	18	2	Good	To be Preserved	Remove. Grading
035	1239	White Cedar	<i>Thuja occidentalis</i>	16	2	Good	To be Preserved	Remove. Grading
036	1207 ¹	Balsam Poplar	<i>Populus balsamifera</i>	18	2	Good	To be Preserved	Remove. Trail
037	1208 ¹	White Cedar	<i>Thuja occidentalis</i>	19	2	Good	To be Preserved	Remove. Trail
038	1209 ¹	White Cedar	<i>Thuja occidentalis</i>	17	2	Good	To be Preserved	Remove. Trail
039	1211 ¹	Trembling Aspen	<i>Populus tremuloides</i>	22	3	Good	To be Preserved	None
040	1212 ¹	Balsam Poplar	<i>Populus balsamifera</i>	21	2	Good	To be Preserved	None
041	1215 ¹	White Cedar	<i>Thuja occidentalis</i>	16	2	Good	To be Preserved	None
042	1219	White Cedar	<i>Thuja occidentalis</i>	18	3	Good	To be Preserved	To be Preserved
043	1214 ¹	White Cedar	<i>Thuja occidentalis</i>	17	2	Good	To be Preserved	Impact to TPZ. Retain and monitor yearly for hazard conditions, Prune lower branches to provide a 3m overhead clearance.
044	1216 ¹	White Cedar	<i>Thuja occidentalis</i>	19	3	Good	To be Preserved	Impact to TPZ. Retain and monitor yearly for hazard conditions
045	1217 ¹	White Cedar	<i>Thuja occidentalis</i>	22	3	Good	To be Preserved	Impact to TPZ. Retain and monitor yearly for hazard conditions
046	1218 ¹	White Cedar	<i>Thuja occidentalis</i>	19	3	Good	To be Preserved	Impact to TPZ. Retain and monitor yearly for hazard conditions
101	N/A	White Cedar	<i>Thuja occidentalis</i>	19.5	3.5	Good, Double-stemmed	To be Preserved	None
102	N/A	Balsam Poplar	<i>Populus balsamifera</i>	18.5	2.5	Fair	To be Preserved	None
103	N/A	Scotch Pine	<i>Pinus sylvestris</i>	20	2	Good	To be Preserved	None
104	N/A	White Cedar	<i>Thuja occidentalis</i>	19	2.5	Fair	To be Preserved	None
107	N/A	Scotch Pine	<i>Pinus sylvestris</i>	23.5	1.5	Good	To be Preserved	None
109	N/A	White Cedar	<i>Thuja occidentalis</i>	15.5	2	Good	To be Preserved	Impact to TPZ. Retain and monitor yearly for hazard conditions
114	N/A	White Cedar	<i>Thuja occidentalis</i>	15	2	Good	To be Preserved	None
115	N/A	Balsam Poplar	<i>Populus balsamifera</i>	16	1.5	Fair	To be Preserved	None
116	N/A	White Cedar	<i>Thuja occidentalis</i>	15	2	Good	To be Preserved	Impact to TPZ. Retain and monitor yearly for hazard conditions
118	N/A	Balsam Poplar	<i>Populus balsamifera</i>	18	2	Fair	To be Preserved	None
119	N/A	Scotch Pine	<i>Pinus sylvestris</i>	23	2.5	Good	To be Preserved	None
120	N/A	White Cedar	<i>Thuja occidentalis</i>	17.5	2.5	Good, Double-stemmed	To be Preserved	Impact to TPZ. Retain and monitor yearly for hazard conditions
121	N/A	White Cedar	<i>Thuja occidentalis</i>	16	3	Good	To be Preserved	Impact to TPZ. Retain and monitor yearly for hazard conditions
122	N/A	Balsam Poplar	<i>Populus balsamifera</i>	19	3	Good	To be Preserved	Remove. Trail
123	N/A	White Cedar	<i>Thuja occidentalis</i>	15	3	Good	To be Preserved	None
124	N/A	Balsam Poplar	<i>Populus balsamifera</i>	15	2.5	Fair	To be Preserved	None
126	N/A	Scotch Pine	<i>Pinus sylvestris</i>	16	2	Good	To be Preserved	None
128	N/A	White Cedar	<i>Thuja occidentalis</i>	20	3	Good	To be Preserved	None
129	N/A	White Cedar	<i>Thuja occidentalis</i>	18	1.5	Good	To be Preserved	None
130	N/A	White Cedar	<i>Thuja occidentalis</i>	17	2	Good, Double-stemmed	To be Preserved	Remove. Grading and retaining wall.
131	N/A	Scotch Pine	<i>Pinus sylvestris</i>	36.5	4	Good	To be Preserved	Impact to TPZ. Retain and monitor yearly for hazard conditions
132	N/A	Balsam Poplar	<i>Populus balsamifera</i>	16	3	Fair	To be Preserved	None
133	N/A	White Cedar	<i>Thuja occidentalis</i>	23	3	Good	To be Preserved	Remove. Grading
134	N/A	White Cedar	<i>Thuja occidentalis</i>	16	2.5	Good	To be Preserved	None
137	N/A	White Cedar	<i>Thuja occidentalis</i>	15	2	Good	To be Preserved	None
138	N/A	Green Ash	<i>Fraxinus pennsylvanica</i>	19	2	Good	To be Preserved	None
139	N/A	Green Ash	<i>Fraxinus pennsylvanica</i>	20	1.5	Good	To be Preserved	Remove. Grading
140	N/A	Balsam Poplar	<i>Populus balsamifera</i>	20	2.5	Fair	To be Preserved	None
142	N/A	White Cedar	<i>Thuja occidentalis</i>	17	1	Good	To be Preserved	None
143	N/A	Green Ash	<i>Fraxinus pennsylvanica</i>	35	3.5	Good	To be Preserved	Impact to TPZ. Retain and monitor yearly for hazard conditions
144	N/A	White Cedar	<i>Thuja occidentalis</i>	19	3	Good	To be Preserved	Remove. Grading and retaining wall.
146	N/A	White Cedar	<i>Thuja occidentalis</i>	17.5	2.5	Good	To be Preserved	None
147	N/A	Scotch Pine	<i>Pinus sylvestris</i>	17	2	Good	To be Preserved	None
148	N/A	White Cedar	<i>Thuja occidentalis</i>	25	2	Good	To be Preserved	None
149	N/A	Balsam Poplar	<i>Populus balsamifera</i>	22	2	Fair	To be Preserved	None
150	N/A	Manitoba Maple	<i>Acer negundo</i>	21	2.5	Fair, Leaving over property	To be Preserved	None
151	N/A	Balsam Poplar	<i>Populus balsamifera</i>	33.5	N/A	Dead	To be Preserved	Impact to TPZ. Retain and monitor yearly for hazard conditions
152	N/A	Scotch Pine	<i>Pinus sylvestris</i>	38	5	Fair	To be Preserved	None
153	N/A	Balsam Poplar	<i>Populus balsamifera</i>	16	1.5	Poor	To be Preserved	None
157	N/A	White Cedar	<i>Thuja occidentalis</i>	18.5	2.5	Good	To be Preserved	None
158	N/A	White Cedar	<i>Thuja occidentalis</i>	17.5	3	Good	To be Preserved	None
159	N/A	White Cedar	<i>Thuja occidentalis</i>	15	2.5	Good	To be Preserved	Impact to TPZ. Retain and monitor yearly for hazard conditions
160	N/A	Scotch Pine	<i>Pinus sylvestris</i>	18	2.5	Good	To be Preserved	None
161	N/A	White Cedar	<i>Thuja occidentalis</i>	16	3	Good	To be Preserved	None
162	N/A	White Cedar	<i>Thuja occidentalis</i>	20	3	Good, Double-stemmed	To be Preserved	None
163	N/A	Balsam Poplar	<i>Populus balsamifera</i>	24.5	3	Fair, Leaving over property	To be Preserved	None
164	N/A	Scotch Pine	<i>Pinus sylvestris</i>	24.5	3	Good	To be Preserved	None
165	N/A	White Cedar	<i>Thuja occidentalis</i>	17.5	4	Good, Multi-stemmed	To be Preserved	None
167	N/A	White Cedar	<i>Thuja occidentalis</i>	18.5	3	Good	To be Preserved	None
169	N/A	White Cedar	<i>Thuja occidentalis</i>	19	3	Good	To be Preserved	None
197	N/A	Scotch Pine	<i>Pinus sylvestris</i>	24	2	Good	To be Preserved	None
198	N/A	White Cedar	<i>Thuja occidentalis</i>	15	1.5	Good	To be Preserved	None
199	N/A	White Cedar	<i>Thuja occidentalis</i>	15	3	Good	To be Preserved	None
200	N/A	Green Ash	<i>Fraxinus pennsylvanica</i>	19	2	Good	To be Preserved	None

Tree Inventory and Assessment provided by Birks Natural Heritage Consultant





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Client/Owner:

Notes:

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12 Issued for Resubmission 04/30/24

11 Issued for Coordination 04/11/24

10 Issued for Coordination 03/13/24

09 Issued for Coordination 01/25/24

08 Issued for Resubmission 08/30/22

07 Issued for Review 06/08/22

06 Issued for Review 05/17/22

05 Issued for Review 04/04/22

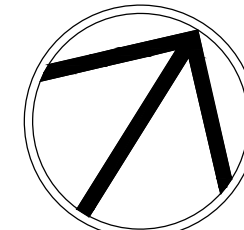
04 Issued for Resubmission 02/09/22

03 Issued for Review 01/13/22

02 Issued for Submission 07/13/21

01 Issued for Review 06/22/21

No. Revision Date

North:  Stamp: 

Project: **Proposed Residential Development**

11283 Hwy 26 - Dawson Drive
Collingwood, Ontario

Scale: **1:250** Date: **Jun 2021**

Drawn By: **S.P.** Checked By: **L.M.**

Drawing Title: **Tree Preservation Plan**

Project No. **21139** Sheet No. **L3-01**

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NOTE: FOR ANY AND ALL GRADING INFORMATION REFER TO SITE GRADING ENGINEERING DRAWINGS. NO SLOPES ARE TO EXCEED 3:1. PROPERTY LINES AND SETBACKS MUST BE CONFIRMED BY CONTRACTOR PRIOR TO CONSTRUCTION. ANY AND ALL RETAINING WALLS MUST BE APPROVED BY STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.

DO NOT SCALE DRAWINGS • PRELIMINARY NOT FOR CONSTRUCTION • THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL COUNTERSIGNED BY L.A. ARCHITECT • SIGNED DATE

Notes:

DO NOT DAMAGE OR CUT LEADER

THIS IS TO BE PLANTED IN A SYSTEM THAT ALLOWS THE TREE A REASONABLE DEGREE OF MOVEMENT (BUT BURLAP STRIPS OR PROWELLING WIRE OR WIRE ENCASED HOSE IS NOT ACCEPTABLE. TIES TO BE REMOVED 1 YEAR AFTER PLANTING)

20% OF TREE HEIGHT

CROWN OF ROOT BALL

15mm SHREDED CEDAR BARK MULCH (NOT DIED)

CREATE 100mm BAUCER AROUND TREE

SOD PAVING SPECIFIED GROUNDOVER

FINISHED GRADE

CLEAN SHARP EDGE BETWEEN EDGE OF BAUCER AND FINISHED GRADE

100mm SCARFED SOIL

TOPKICK OR SORENEED

ANGLEDZED TOPKICK, FREE OF STONES

CUT AND REMOVE 1/3 OF BURLAP REMOVED ALL SIDES OF WIRE BASKET AND ALL TIES SUBGRADE

15mm SHREDED CEDAR BARK MULCH (NOT DIED)

CREATE 100mm BAUCER AROUND TREE

FINISHED GRADE

TOPKICK OR SORENEED

ANGLEDZED TOPKICK, FREE OF STONES

VARIES WITH SLOPE

SLOPE PIT BOTTOM FOR DRAINAGE SUBGRADE

ON A SLOPE

ARTIST DW

SCALE: 1/4"

DATE: JAN 04

DRAWN BY: JAVO

NO. 1

REVISION

APPROVED

DATE

1

PLANTING METHODOLOGY

EN

JUN 04

2

PLANTING METHODOLOGY

EN

JUL 04

TOWN OF COLLINGWOOD

CONIFEROUS TREE PLANTING

STD. No. 1102

SCALE: N.T.S.

LD-0

SCALE: N.T.S.

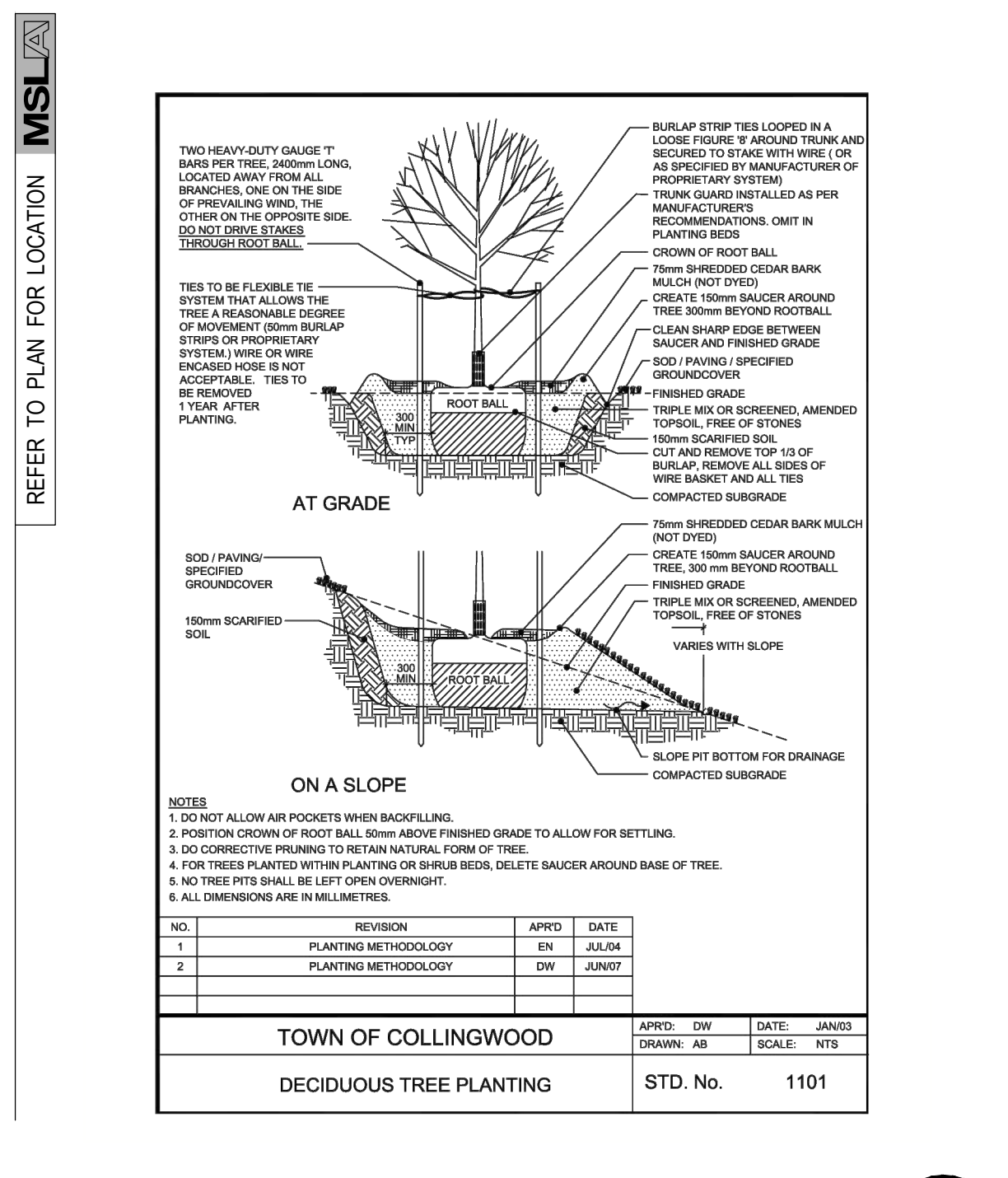
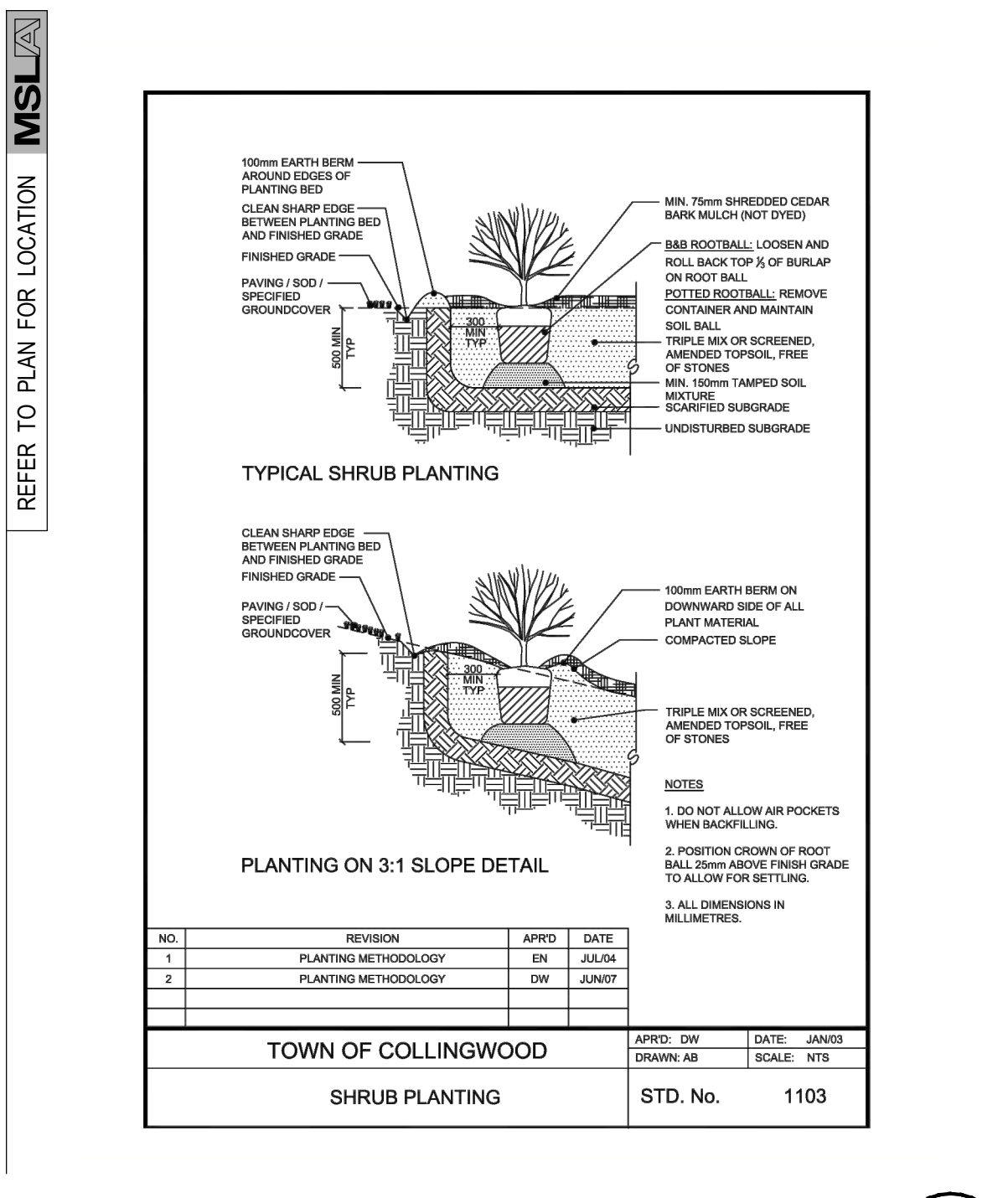
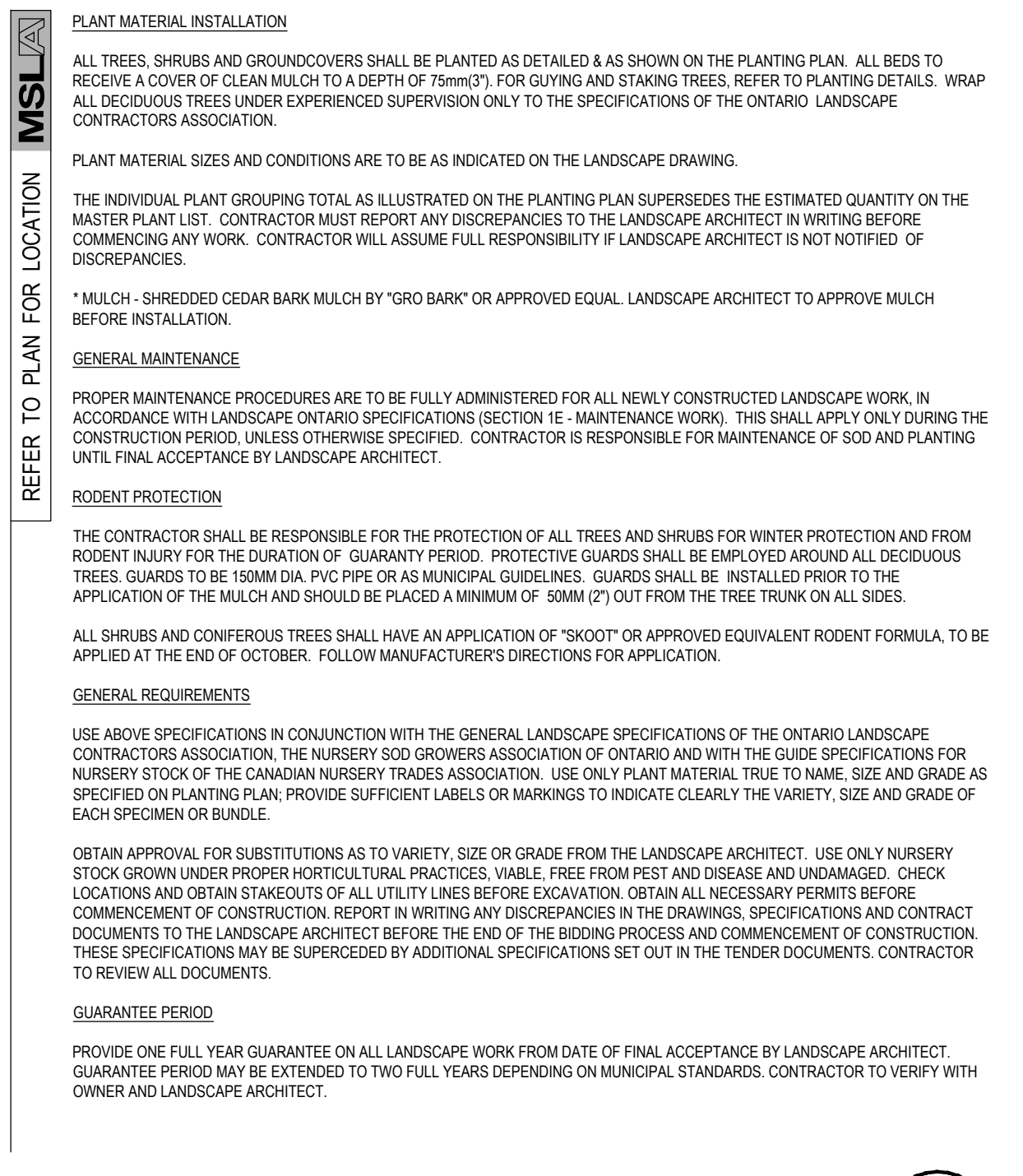
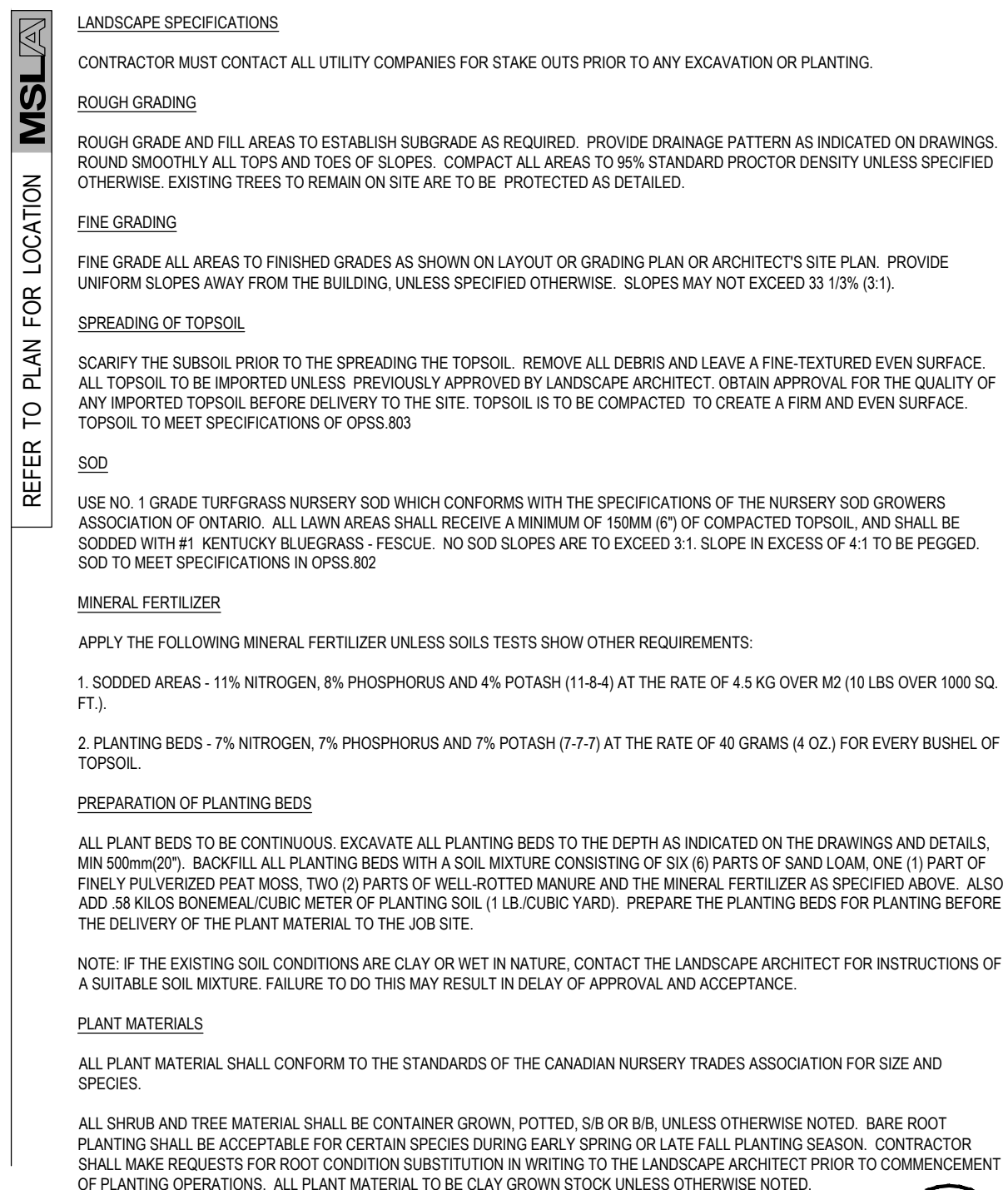
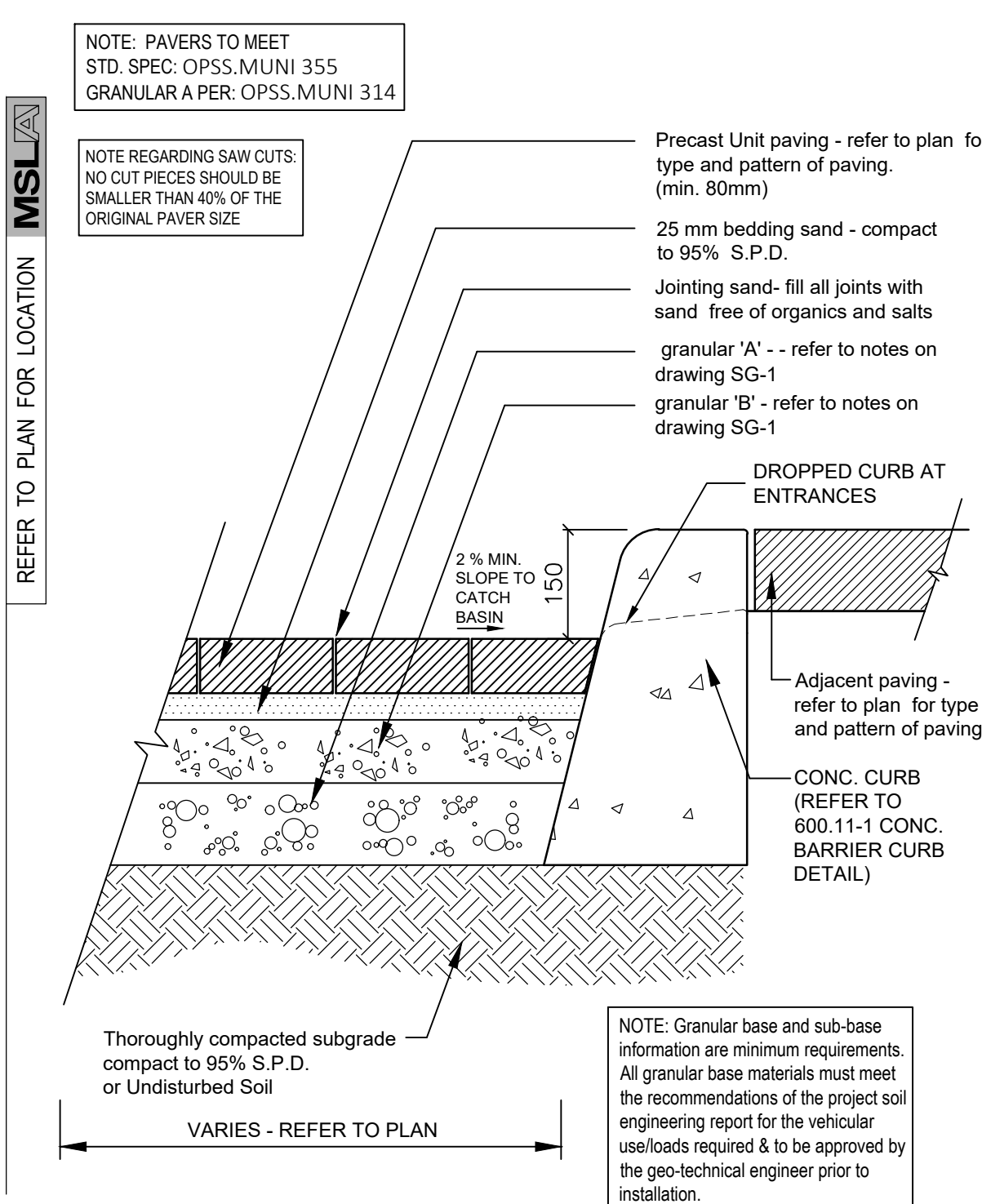
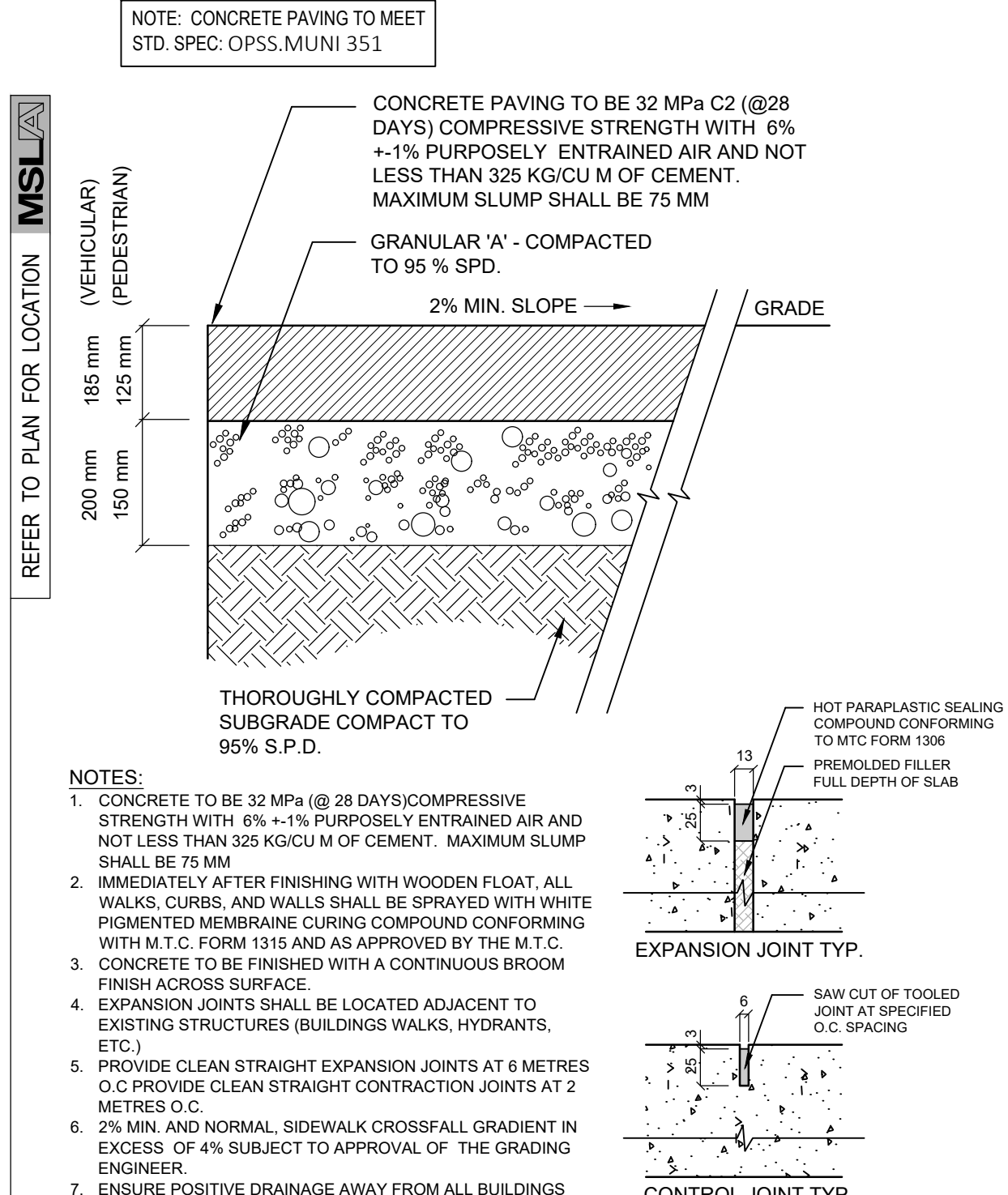
Vehicular Detail to be approved by Civil or Geotechnical Engineer prior to construction

SCALE: N.T.S.

DATE: _____

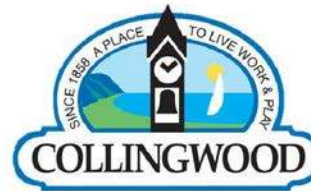
SCALE: N.T.S.

SINGLE SOLDIER COURSE OPTION



Architect:

Municipality:



Client/Owner:

Notes:

14	Issued for Resubmission	04/07/25
13	Issued for Resubmission	12/13/24
12	Issued for Resubmission	04/30/24
11	Issued for Coordination	04/11/24
10	Issued for Coordination	02/25/24
09	Issued for Coordination	01/25/24
08	Issued for Resubmission	08/30/22
07	Issued for Resubmission	06/08/22
06	Issued for Review	05/17/22
05	Issued for Review	04/04/22
04	Issued for Resubmission	02/09/22
03	Issued for Review	01/13/22
02	Issued for Submission	07/13/21
01	Issued for Review	06/22/21

No. Revision Date

North: Stamp:



Project:
Proposed Residential Development
11283 Hwy 26 - Dawson Drive
Collingwood, Ontario

Scale: **As Shown** Date: **Jun 2021**

Drawn By: **S.P.** Checked By: **L.M.**

Drawing Title:

Landscape Details

Project No. **21139** Sheet No. **LD-02**

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REFER TO PLAN FOR LOCATION

MSLA

HAUSER INDUSTRIES
330 WEBER STREET NORTH
WATERLOO, ON N2J 3H6
TEL: 800-268-7328
FAX: 519-747-4371
www.hauserinc.com

PRODUCT CODE:
PS-692-AL-3-WD3-WD3
TO SPECIFY:
Select PS-692-AL-3-WD3-WD3
Chosen:
Frame Options: Gunmetal
Seat Options: IPE
Back Options: IPE
"Bolted Down"

DIMENSIONS:
Height: 36.00" (91.4 cm)
Width: 72.00" (182.9 cm)
Depth: 22.00" (55.9 cm)
Seat Height: 17.25" (43.8 cm)

72
18

RIDGEWOOD BENCH BY HAUSER: MODEL PS-692-AL-3-WD3

SCALE: N.T.S. DATE:

9 LD-02

REFER TO PLAN FOR LOCATION

MSLA

Conic Waste/Recycle Receptacle
PS-951-CR-AL - Conic Waste/Recycle Receptacle
Our Conic Waste/Recycle Receptacle features an all-weather, powdercoated aluminum body, with a conic aluminum lid. The single stream receptacle is shown here with a custom powdercoat finish, and a polypropylene liner (24 gal / 90.7 L). It is available in a variety of powdercoat finishes.

Diameter: 24.9" (62.2 cm)
Height: 42.25" (107.3 cm)
Total Capacity: 34 gal (128.7 L)

COLOUR:
TO MATCH BENCH *
GUN METAL

HAUSER
SITE FURNITURE

sales@hauserinc.com
800-268-7328
hauserinc.com

10 LD-02

REFER TO PLAN FOR LOCATION

MSLA

Skyline Picnic Table & Benches, Tropical
Hardwood Slats
PS-1010-AL-WD3-33x72 Skyline Picnic Table & PS-1000-AL-64 Skyline Benches
PS-1010-AL-WD3-33x72 Skyline Picnic Table - 72" L x 33" W x 30" H, 95 lbs
PS-1000-AL-WD3-64 Skyline Benches - 64" L x 12" W x 37.5" H, 55 lbs each
Available in a variety of sizes and finishes. Free-standing or Bolt-Down

Weight: 205.0 lb (93.1 kg)

COLOUR: GUN METAL
TO MATCH ALL SITE FURNITURE

LOCAL REPRESENTATIVE:
HAUSER
TRUDY WALKER
trudyw@hauser.ca
416.909.1059

BOLTED DOWN

1829
838

HAUSER
SITE FURNITURE

sales@hauserinc.com
800-268-7328
hauserinc.com

11 LD-02

REFER TO PLAN FOR LOCATION

MSLA

ORNAMENTAL METAL FENCE DETAIL - ALUMINUM 1200 ht.

SCALE: N.T.S. DATE:

12 LD-02

SPECIFICATIONS:
POSTS, RAILS & PICKETS: EXTRUDED MARINE ALUMINUM
CORROSION RESISTANT COATING
ELECTROSTATICALLY APPLIED
THERMALLY BONDED POLYESTER POWDER COATING
MINIMUM FILM THICKNESS 2.5 mils
POSTS: 76mm x 76mm (3"x3"), 7 GAUGE
POST FLANGES: 203mm x 203mm (8"x8") x 13mm (1/2")
POST CAP: PYRAMID OR BALL
RAILS: 38mm x 64mm (1 1/2" x 2 1/2") - 11 GAUGE
PICKETS: 19mm x 38mm (3/4" x 1 1/2") - 14 GAUGE
FITTINGS: 12 GAUGE STAMPED MARINE ALUMINUM
FACTORY FINISH AS ABOVE
WELDS: ALUMINUM

PANEL WIDTH 2299 (90 1/2")
AVAILABLE ONLY FOR
PANEL HEIGHTS LISTED
PANEL WIDTH OF 1765mm (69 1/2")
AVAILABLE ONLY FOR
PANEL HEIGHTS LISTED

PANEL HEIGHT
814mm (32")
1219mm (48")
1524mm (60")
1829mm (72")
2134mm (84")
2438mm (96")
2743mm (108")
3048mm (120")
3353mm (132")

GATES: SPECIFY OPENING WIDTHS
SINGLE QUANTITY
DOUBLE QUANTITY
NOTE: OVERHEAD SLIDING GATES AVAILABLE
DAMPEN PROOF NUT AVAILABLE FOR BRACKETS
COLOUR: STANDARD COLOUR BLACK
CUSTOM COLOURS AVAILABLE UPON REQUEST
WARRANTY: 5 YEAR MAINTENANCE FREE

IRON EAGLE II SERIES
CANADIAN EAGLE
IRON EAGLE INDUSTRIES INC. 1256 CROFT BLVD. WOODBINE, ONT.
TEL: 905-452-2358 TEL/FAX: 905-452-2358

REFER TO PLAN FOR LOCATION

MSLA

CUSTOM 'GRAND PERGOLA' STRUCTURE BY HAUSER

SCALE: N.T.S. DATE:

13 LD-02

3800
2600

PRIVACY SCREEN

PLAN VIEW

COLOUR:
TO MATCH FURNITURE *
GUN METAL

CHAMFERED TOP (25mm)

POSTS FASTENED TO CONC. PIER WITH GAL. METAL BRACKETS AS PER STRUCTURAL ENGINEERS APPROVED DETAIL

SQUARE PIER FOOTING SIZED TO ACCOMMODATE POST BRACKET & FASTENED TO ROOF SLAB PER STRUCTURAL ENGINEER APPROVED DETAIL

FOOTING TO REST ON UNDISTURBED SUBGRADE

PIER FOOTING OPTION (SQ)

POURED CONC. PIER (SQUARE) 300mm CONCRETE IN 28 DAYS WITH 5-7% A.E.

350 +/-

1200

800mm

400mm

200mm

100mm

50mm

25mm

125mm

150mm

175mm

200mm

225mm

250mm

275mm

300mm

325mm

350mm

375mm

400mm

425mm

450mm

475mm

500mm

525mm

550mm

575mm

600mm

625mm

650mm

675mm

700mm

725mm

750mm

775mm

800mm

825mm

850mm

875mm

900mm

925mm

950mm

975mm

1000mm

1025mm

1050mm

1075mm

1100mm

1125mm

1150mm

1175mm

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9150mm

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9200mm

9225mm

9250mm

9275mm

9300mm

9325mm

9350mm

9375mm

9400mm

9425mm

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9750mm

9775mm

9800mm

9825mm

9850mm

9875mm

9900mm

9925mm

9950mm

9975mm

10000mm

REFER TO PLAN FOR LOCATION

MSLA

1800 HT. WOOD PRIVACY FENCE DETAIL

SCALE: N.T.S. HEIGHT NOT TO EXCEED LOCAL BY-LAW

14 LD-02

NOTE: FENCE FOOTING TO EXTEND 4' (1200mm) BELOW BOTTOM OF RETAINING WALL

PRIVACY FENCING NOTES

1. ALL MATERIALS, COMPONENTS AND WORKMANSHIP TO CONFORM WITH LOCAL BY-LAW.
2. CONTRACTOR TO FENCE IN ACCORDANCE WITH CANADIAN STANDARDS EXCEPT WHERE SPECIFIED.
3. LUMBER SPECIFICATIONS BY GRADE STAMP OF CANADIAN LUMBER MILL. REFER TO GRADE STAMP FOR GRADE, SPECIES, AND TREATMENT.
4. WOOD FENCING TO MEET STANDARD GRADING RULES. REFER TO GRADE STAMP FOR GRADE, SPECIES, AND TREATMENT.
5. MEASURED FINISH TO HAVE MAXIMUM 1/2" MOISTURE CONTENT.
6. ALL WOOD MEMBERS TO BE WESTERN RED CEDAR.
7. METAL FASTENERS TO CSA B113-1974, TABLE 27, GALVANIZED FINISH, SIZES AS SPECIFIED OTHERWISE.
8. THE WORK SHALL BE Laid OUT TRUE TO THE HORIZONTAL PLANE AND THE STRUCTURAL SUPPORTS AND MEMBERS SHALL BE ACCURATELY PLACED IN POSITION AND TRULY AND PERMANENTLY FIRED.
9. WOOD MEMBERS SHALL BE TREATED WITH TWO COATS OF SINKERS STAIN, COLOUR GREY.
10. FASTENING SHALL BE BY NAILS, SPIKES, BOLTS, AND TRUSS OR TYPING ANCHORS, AS DETAILED. ALL NAILS AND BOLTS SHALL BE CORROSION RESISTANT.
11. SELECT BOARDS FOR GOOD APPEARANCE. ALL MEMBERS SHALL BE FREE OF KNOTS AND BARK. ALL TOP EDGES SHALL BE PLANED OR SMOOTH. SMOOTH MEMBERS EXISTING OR NEWLY ADDED SHALL BE WELL-DISTRIBUTED THROUGHOUT THE FENCE FACE.
12. STEP FENCE PANELS TO A MAXIMUM OF 1500mm AT POSTS AS REQUIRED TO MEET GRADE.

ELEVATION OF PRIVACY FENCE

SECTION B-B'

SECTION C-C'

SECTION A-A'

NO. REVISION APR'D DATE

TOWN OF COLLINGWOOD

PRIVACY FENCE WITH GATE

REVERSE LOT FRONTAGE

APR'D: EDH DATE: JAN/03

DRAWN: SCALE: NTS

STD. No. 502

Notes:

tion in part or whole shall only be permitted with written consent of L. A. Drawings shall not be used for construction unless sealed & SIGNED. Before starting work, the contractor shall confirm the exact location of all existing utilities and facilities, and shall assume liability for damages. NO WALL IS MUST BE APPROVED BY STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION

SIGNED _____



DEPTH NOTES:
1. CUSHION LAYER - DEPTH VARIES
(PER MANUFACTURER'S STANDARDS -
THICKNESS DEPENDENT ON FALL
HEIGHT REQUIREMENTS).

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. LAY PERFORATED PIPES WITH PERFORATIONS DOWNWARDS AT 8 O'CLOCK AND 4 O'CLOCK POSITIONS.
3. CONCRETE OR METAL FOOTINGS OF ALL PLAY EQUIPMENT SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF RUBBER SURFACE MATERIAL WITH 100MM MIN. COVER.
4. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.



Data is subject to change without prior notice.

No.	Revision	Date
-----	----------	------

Stamp:



11283 Hwy 26 - Dawson Drive
Collingwood, Ontario

Drawn By: **S.P.** Checked By: **L.M.**

Landscape Details

Project No. **21139** Sheet No. **LD-03**

1 : 500

3. CONSULT LOCAL BUILDING OFFICIAL(S) FOR INSTRUCTIONS REGARDING CERTIFICATION OF COMPLETED RETAINING WALL(S). RETAINING WALLS, BEING ENGINEERED STRUCTURES, MAY REQUIRE CERTIFICATION BY A QUALIFIED ENGINEER WHO MUST BE OBTAINED PRIOR TO CONSTRUCTION OF THE RETAINING WALL(S) SO AS TO BE ABLE TO INSPECT THE CONSTRUCTION OF THE ENTIRE WALL FROM START TO FINISH.
4. AD-ENGINEERING WILL NOT CERTIFY THE RETAINING WALL UNLESS RETAINED BY THE OWNER TO DO SO. ARE NOTIFIED PRIOR TO CONSTRUCTION OF THE WALL, AND INSPECTIONS ARE CONDUCTED BY AD-ENGINEERING STAFF DURING THE WALL CONSTRUCTION.
5. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE LOCATION(S) AND ALIGNMENT(S) OF THE RETAINING WALL(S) GADDER THE APPROVED GRADING PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO VERIFY DIMENSIONS AND GRADES PRIOR TO CONSTRUCTION.
6. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE CERTIFYING ENGINEER PRIOR TO COMMENCING CONSTRUCTION TO DETERMINE THE QUANTITY AND TYPE OF INSPECTIONS REQUIRED TO ALLOW FOR FINAL CERTIFICATION OF THE RETAINING WALL CONSTRUCTION.
7. WALL SYSTEM TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
8. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL INSPECTIONS, TESTING AND QUALITY VERIFICATIONS ARE PERFORMED DURING CONSTRUCTION BY QUALIFIED PERSONNEL.
9. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE CONTRACTOR HAS BUDGETED ACCORDINGLY FOR THE INSPECTIONS AND TESTING NECESSARY TO CERTIFY THE CONSTRUCTION OF THE RETAINING WALL(S).
10. MINOR ALTERATIONS MAY BE MADE TO THE LAYOUT OF THE WALLS PROVIDED THE MINIMUM BURIED DEPTH IS MAINTAINED, MAXIMUM EXPOSED HEIGHT IS NOT EXCEEDED, AND SLOPES IN THE AREA OF THE WALL(S) ARE WITHIN THE ASSUMED DESIGN PARAMETERS AS PROVIDED BY THE DESIGN CROSS SECTIONS
11. AD-ENGINEERING MUST BE NOTIFIED TO PROVIDE THE NECESSARY REVISIONS AND RECOMMENDATIONS FOR ANY PROPOSED ALTERATIONS IF THE MAXIMUM WALL HEIGHT IS TO BE INCREASED, SLOPES BEHIND OR IN FRONT OF THE WALL EXCEED THOSE USED AS THE DESIGN PARAMETER. MINIMUM BURIED DEPTH REQUIREMENTS ARE REDUCED, OR A GUARD, FENCE, OR BARRIER IS TO BE ADDED ON OR NEAR THE WALL, THAT WAS NOT ACCOUNTED FOR IN THE DESIGN.
12. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION OF THE RETAINING WALLS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE NECESSARY SUPPORT OR PROTECTION TO ANY EXISTING UTILITIES IN THE AREAS OF THE PROPOSED RETAINING WALLS.

1. RETAINING WALLS HAVE BEEN DESIGNED IN ACCORDANCE WITH 2012 ONTARIO BUILDING CODE AND THE DESIGN MANUAL FOR SEGMENTAL RETAINING WALLS, 2ND EDITION BY THE NATIONAL CONCRETE MASONRY ASSOCIATION.
2. ASSUMED SOIL PROPERTIES ARE AS LISTED BELOW AND MUST BE VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO AND DURING CONSTRUCTION OF THE WALL.
 - A. SOIL FRICTION ANGLE = 28°
 - B. UNIT WEIGHT OF SOIL (DRAINED) = 21.5 kN/m³
 - C. ACTIVE PRESSURE COEFFICIENT (external) (K_{ae})=0.32 (LEVEL BACKSLOPE)
3. A-D ENGINEERING MUST BE NOTIFIED OF ANY DISCREPANCY BETWEEN DESIGN PARAMETERS AND ACTUAL SITE CONDITIONS.
4. RETAINING WALL HAS BEEN CHECKED FOR EXTERNAL AND INTERNAL STABILITY. WHEN IT IS STATED ON THESE DRAWINGS THAT A GLOBAL STABILITY ANALYSIS IS RECOMMENDED IN ACCORDANCE WITH THE NCM'S SEGMENTAL RETAINING WALL BEST PRACTICES GUIDE, IT SHALL BE THE OWNERS RESPONSIBILITY TO RETAIN A QUALIFIED GEOTECHNICAL CONSULTANT TO CONDUCT THE GLOBAL STABILITY ANALYSIS.

1. CONTRACTOR IS RESPONSIBLE FOR ENSURING EXCAVATIONS ARE IN ACCORDANCE WITH APPLICABLE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY SHORING OR UNDERPINNING REQUIRED TO SUPPORT ANY EXISTING SLOPES OR STRUCTURES AGAINST MOVEMENT OR UNDERMINING IN THE AREAS OF THE PROPOSED RETAINING WALLS (IF REQUIRED).

1. RETAINING WALL TO BE USED AGAINST UNDISTURBED NATIVE SOIL UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. THE FOUNDATIONS HAVE BEEN DESIGN FOR AN ASSUMED MINIMUM ALLOWABLE NET BEARING CAPACITY OF 75 KPa (1500psf). UNLESS NOTED OTHERWISE ON SECTION DRAWINGS, FOUND ALL FOOTINGS ON NATURAL UNDISTURBED INORGANIC SOIL.
3. A SOILS CONSULTANT SHALL APPROVE ON SITE THE ASSIGNED SAFE NET BEARING PRESSURE FOR EACH FOOTING. IF THE SAFE NET BEARING PRESSURE USED FOR DESIGN IS NOT APPROVED, ENGINEER TO BE NOTIFIED FOR REVISION OF RETAINING WALL DESIGN.
4. ALL UNSUITABLE FILL SOILS CONTAINING ORGANICS OR DELETERIOUS MATERIAL, OR THAT IS FROZEN, MUST BE SUBEXCAVATED FROM BENEATH THE PROPOSED RETAINING WALL BASE AND SUBSEQUENTLY REPLACED WITH APPROVED STRUCTURAL FILL OR MASS CONCRETE UNDER SUPERVISION OF THE GEOTECHNICAL ENGINEER.
5. WHERE A SOIL INVESTIGATION WAS PROVIDED, THE SOIL PARAMETERS LISTED IN THE SOIL INVESTIGATION WERE USED FOR THE WALL DESIGN. WHERE NO SITE SPECIFIC INFORMATION WAS PROVIDED, IT WAS ASSUMED THAT THE FOUNDATION AND RETAINED SOILS CONSIST OF INORGANIC CLAYS WITH LOW TO MEDIUM PLASTICITY.

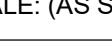
1. IF THE RETAINING WALLS ARE CONSTRUCTED DURING FREEZING CONDITIONS, ALL FILL MATERIALS MUST BE FREE OF SNOW, ICE AND FROZEN MATERIAL.
2. CONTRACTOR IS RESPONSIBLE FOR DRAINAGE CONTROL DURING CONSTRUCTION IN AREAS OF THE PROPOSED RETAINING WALLS.
3. FIRST COURSE OF BLOCKS TO BE FOUNDED ON MINIMUM 150mm (6") OF COMPACTED OPSS GRANULAR "A" OVER UNDISTURBED NATIVE SOIL. UNLESS OTHERWISE NOTED ON DRAWINGS.
4. DRAINS ARE TO BE OUTLETTED VIA GRAVITY TO APPROVED LOCATIONS. DRAINS ARE RECOMMENDED TO BE SLOPED AT A MINIMUM OF 1.0% TO THE PROPOSED OUTLET LOCATIONS. DRAINS MUST BE OUTLETTED AT THE ENDS OF THE WALL AND/OR THROUGH THE FACE OF THE WALL AT GROUND SURFACE. IT IS RECOMMENDED THAT A DRAINAGE OUTLET BE PROVIDED EVERY 15m (50 FT).
5. THE RETAINING WALLS ARE TO BE BACKFILLED AS RETAINING WALL BLOCKS ARE BEING PLACED IN LAYERS NOT EXCEEDING 200mm (8 in) AND COMPACTED TO THE SPECIFIED DENSITY. AT NO TIME SHOULD THE RETAINING WALL BLOCKS BE HIGHER THAN TWO COURSES ABOVE THE BACKFILL HEIGHT. THE BACKFILL MATERIAL MUST BE AT A SUITABLE MOISTURE CONTENT TO ACHIEVE THE MINIMUM REQUIRED FIELD COMPACTION; COMPACTION LEVELS TO BE VERIFIED BY THE GEOTECHNICAL ENGINEER.
6. WHERE REQUIRED, INFILL SOIL IS TO BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm (8 in) IN THICKNESS. REQUIRED COMPACTION: 96% OF THE STANDARD PROCTOR DENSITY OF THE MATERIAL.
7. GEORGIR ID:
 1. STRATAGRID 200 (OR APPROVED ALTERNATIVE) - 1.250 LB/SF TYP. MACHINE DRIVEN DESIGN STRENGTH: NO MORE THAN TWO COURSES BETWEEN LAYERS OF GEORGIR. GRID SHOULD BE EMBEDDED A MINIMUM OF 18" INTO THE WALL, OR
8. HEAVY COMPACTION AND CONSTRUCTION EQUIPMENT ARE NOT ALLOWED TO BE WITHIN 1.5 M (5 FT) OF THE BACK SIDE OF THE RETAINING WALL.
9. GRADE AT TOP AND BOTTOM OF WALLS IS AS NOTED ON DRAWINGS.
10. THE TOP AND BOTTOM OF THE WALL MUST BE STABILIZED (TOPSOLDED AND SEEDED, OR AS SPECIFIED IN THE DRAWINGS) IMMEDIATELY UPON COMPLETION OF THE WALL, OR PROVIDED WITH EQUIVALENT EROSION PROTECTION.

1. CONTACT LOCAL MUNICIPALITY FOR GUARDRAIL REQUIREMENTS, IF REQUIRED, PROVIDE GUARDRAIL IN ACCORDANCE WITH 2012 O.B.C. REGULATIONS. NOTIFY AD ENGINEERING FOR APPROPRIATE CONNECTION TO TOP OF WALL IF GUARD IS TO BE PLACED IN WALL.
2. WHERE FENCES ARE TO BE INSTALLED ON OR NEAR THE RETAINING WALLS, VERIFY THE FENCE WAS ACCOUNTED FOR IN THE WALL DESIGN (WILL BE SHOWN ON THE DESIGN DRAWINGS) AND THAT IT MEETS (CHAIN LINK, PRIVACY, OR NOISE), DIMENSIONS AND POST SPACING OF THE FENCE IS AS SPECIFIED.
3. WHERE FENCES OR TRAFFIC BARRIERS ARE TO BE INSTALLED NEAR THE BACK OF THE RETAINING WALL, VERIFY THE FENCE OR BARRIER WAS ACCOUNTED FOR IN THE WALL DESIGN (WILL BE SHOWN ON THE DESIGN DRAWINGS) AND THAT THE SONO TUBES ARE INSTALLED DURING WALL CONSTRUCTION, CONTROLLING THE HEIGHT OF THE POST WALL CONSTRUCTION IS NOT PERMITTED IN GEOTECHNICAL REINFORCED WALL CONSTRUCTIONS.

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO CHECK AND VERIFY ALL EXISTING SITE DIMENSIONS WITH DRAWINGS. REPORT ANY DISCREPANCIES AND OMISSIONS TO THE STRUCTURAL ENGINEER, PRIOR TO CONSTRUCTION.
2. DO NOT SCALE THESE DRAWINGS.
3. WALL DESIGN PROVIDED IN THIS DRAWING SET, ARE BASED ON DOCUMENTATION AND INFORMATION PROVIDED TO DESIGN ENGINEER AT TIME OF DRAWING DATE. GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DRAWING INFORMATION TO CONFIRM THAT THE INFORMATION AND WALL DESIGN SHOWN MATCH THE MOST RECENT GRADING AND SITE INFORMATION AVAILABLE.



Client 

SCALE: (AS SHOWN)	DATE: 12.12.24
 #241176 16-JAN-25 T. T. L. CHEUNG 100212242 structural	DESIGNED: T.C.
	DRAWN: M.L.T.
	PROJ ENG: T.C.
	APPROVED: T.C.
	SHEET NO.

Project #

- 
- A-D ENGINEERING GROUP LTD.**
 45 ERIC T. SMITH WAY UNIT 6, AURORA, ON L4G 7C6
 O: 905-898-3514 T.F: 1-855-998-3514 F: 905-898-1998
info@adengineering.ca www.adengineering.ca

Project Name	PROTERRA RETAINING WALLS
--------------	--------------------------

Client 

Address 11283 HIGHWAY 25,
COLLINGWOOD, ONTARIO

SCALE: (AS SHOWN)	DATE: 12 12 24
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	DESIGNED:	T.C.
	DRAWN:	J.J
	PROJ ENG:	T.C.
	APPROVED:	T.C.
	SHEET NO.	

RW2

Title	WALL ELEVATIONS
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Project #

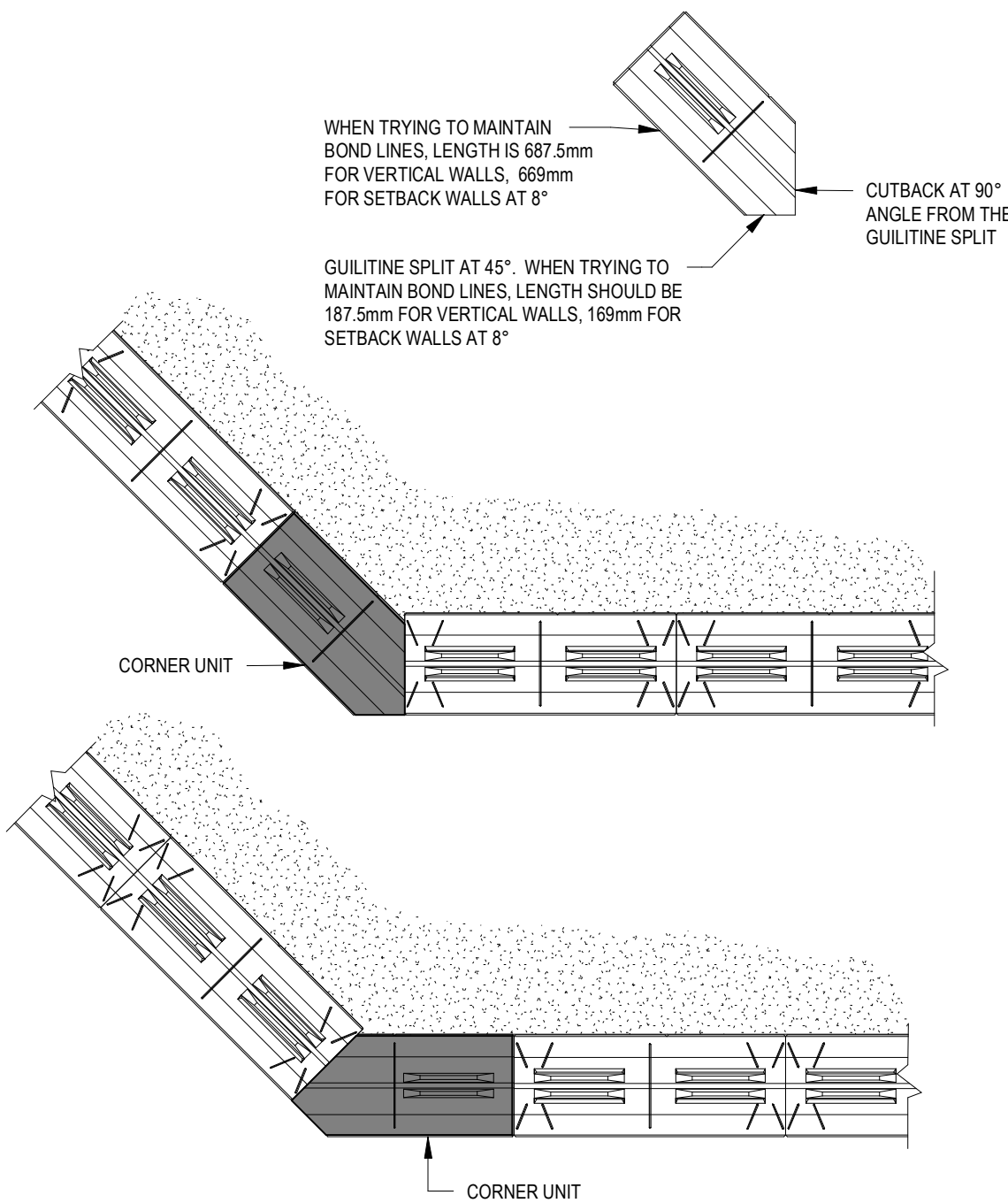
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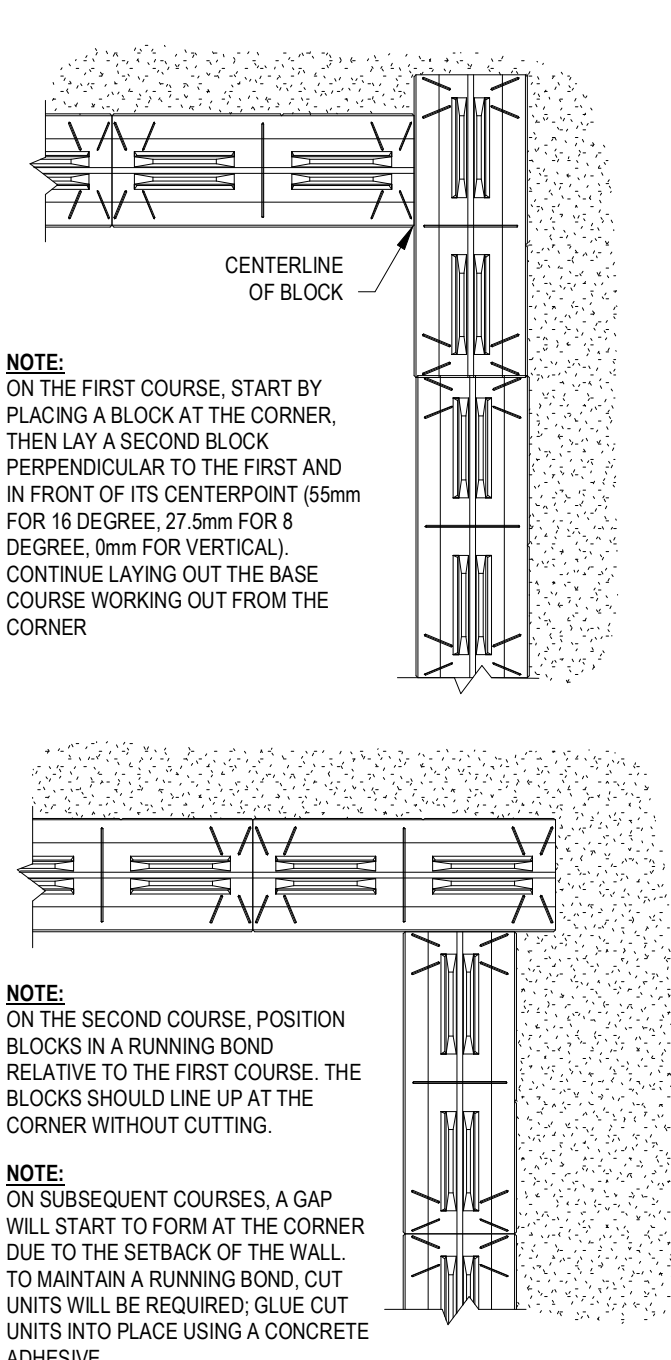
2 WALL ELEVATION 2

3 WALL ELEVATION 3

1 : 100

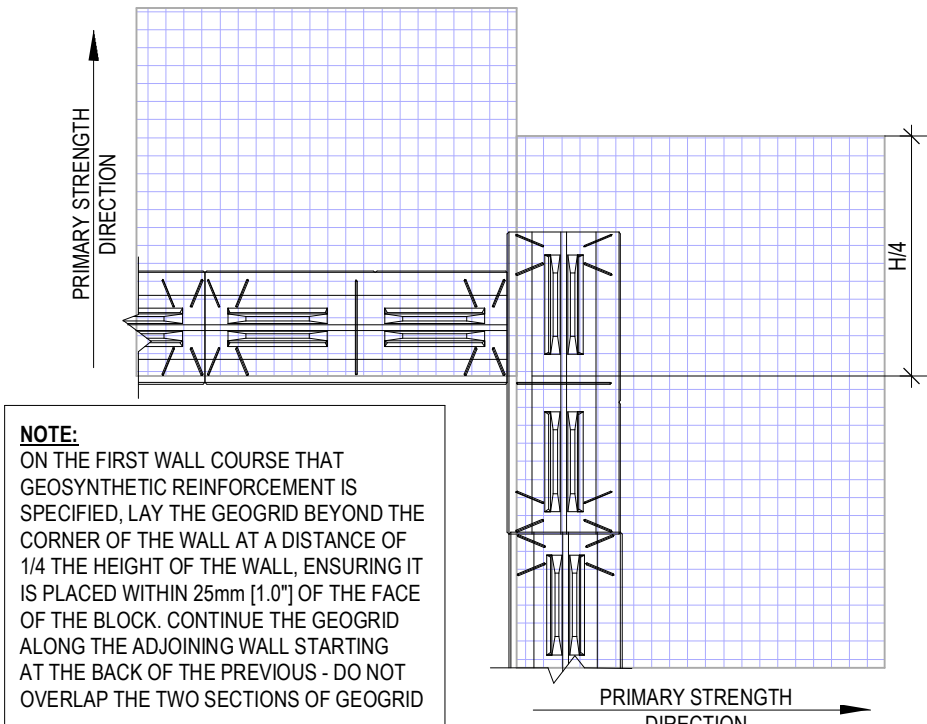


1 45° OUTSIDE CORNER
1 : 25



2 90° INSIDE CORNER
1 : 25

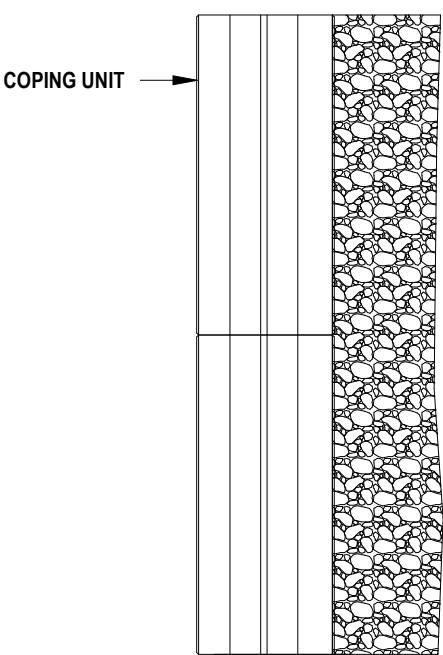
NOTE:
ON THE SECOND WALL COURSE THAT GEOSYNTHETIC REINFORCEMENT IS SPECIFIED, ALTERNATE THE REINFORCEMENT EXTENSION. CONTINUE THE GEOGRID ALONG THE ADJOINING WALL STARTING AT THE BACK OF THE PREVIOUS. DO NOT OVERLAP THE TWO SECTIONS OF GEOGRID



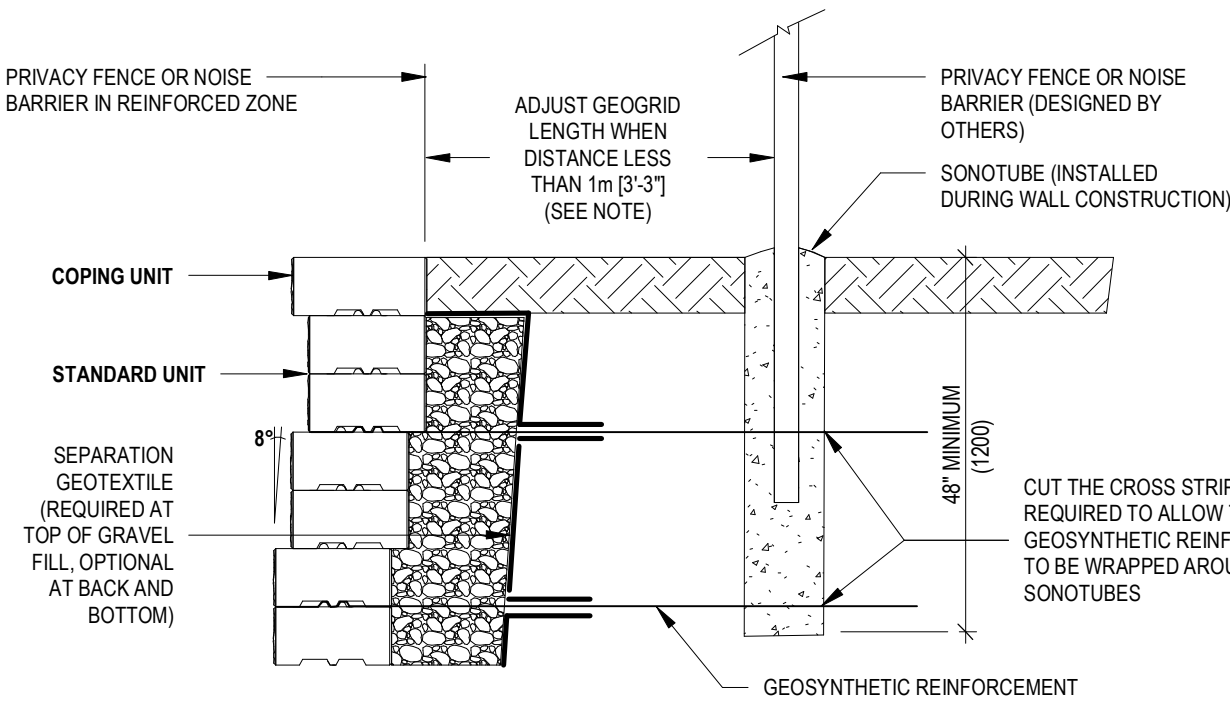
NOTE:
ON THE FIRST WALL COURSE THAT GEOSYNTHETIC REINFORCEMENT IS SPECIFIED, LAY THE GEOGRID BEYOND THE CORNER OF THE WALL AT A DISTANCE OF 1/4 THE HEIGHT OF THE WALL, ENSURING IT IS PLACED WITHIN 25mm (1.0") OF THE FACE OF THE BLOCK. CONTINUE THE GEOGRID ALONG THE ADJOINING WALL STARTING AT THE BACK OF THE PREVIOUS. DO NOT OVERLAP THE TWO SECTIONS OF GEOGRID

3 90 DEGREE INSIDE CORNER WITH GEOGRID - SPLIT FACE WALLS

1 : 25



NOTE:
INSERT POSTS INTO THE SONOTUBES, ALIGN, AND SECURE USING NON-SHRINK GROUT. ENSURE POSTS ARE MINIMUM 25mm (1.0") FROM ALL SIDES OF THE SONOTUBE



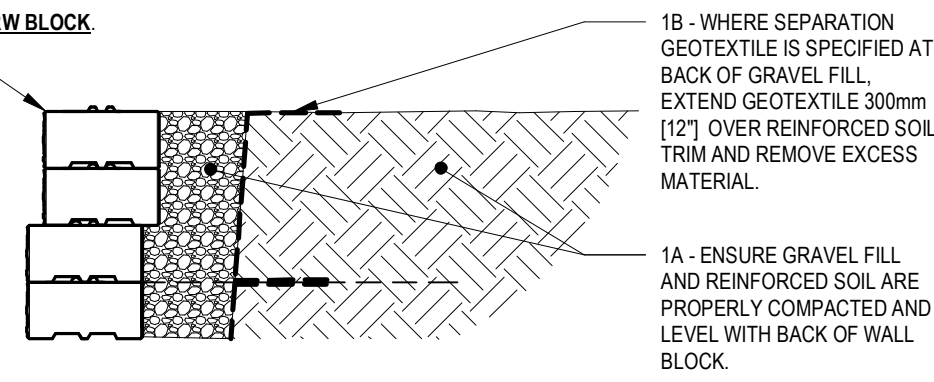
NOTE:
WHEN THE PRIVACY FENCE OR NOISE BARRIER IS AT LEAST 1m (3'-3") BACK FROM THE WALL FACE, GENERALLY NO ADDITIONAL REINFORCEMENT IS REQUIRED. WHEN THE PRIVACY FENCE OR NOISE BARRIER IS INSTALLED WITHIN 1m (3'-3") OF THE WALL FACE, THERE MAY BE SOME LOAD TRANSFERRED TO THE WALL FROM WIND, SNOW, OR PEDESTRIANS; ADDITIONAL REINFORCEMENT AROUND THE SONOTUBES AND/OR DEEPER SONOTUBES MAY BE REQUIRED.

PRIVACY FENCE OR NOISE BARRIER IN 7 REINFORCED ZONE

NTS

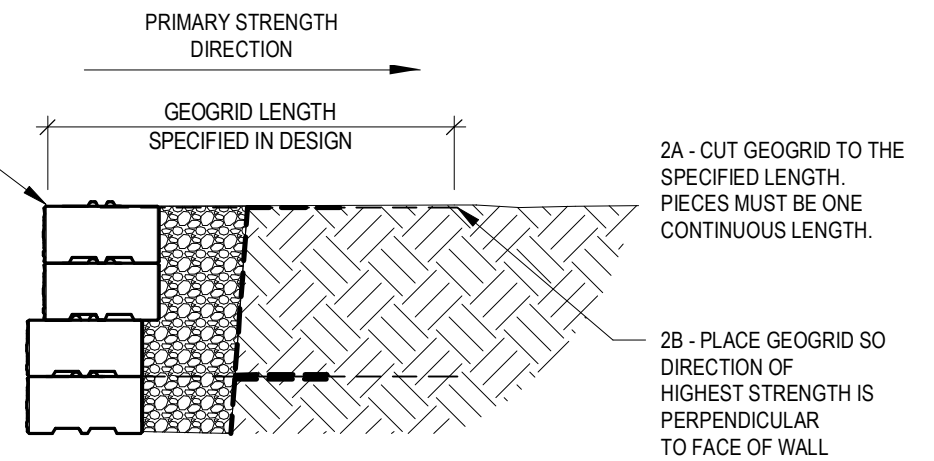
STEP 1 - BACKFILL TO TOP OF SRW BLOCK

1C - CLEAN TOP OF WALL UNIT



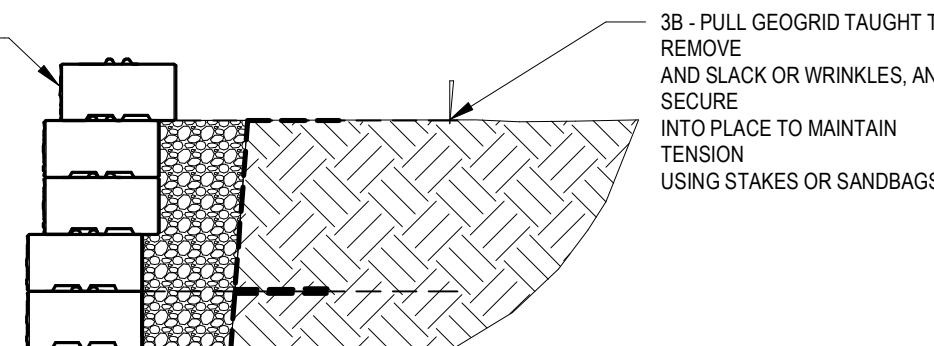
STEP 2 - PLACE GEOGRID

2C - GRID WITHIN 25mm (1") OF WALL FACE



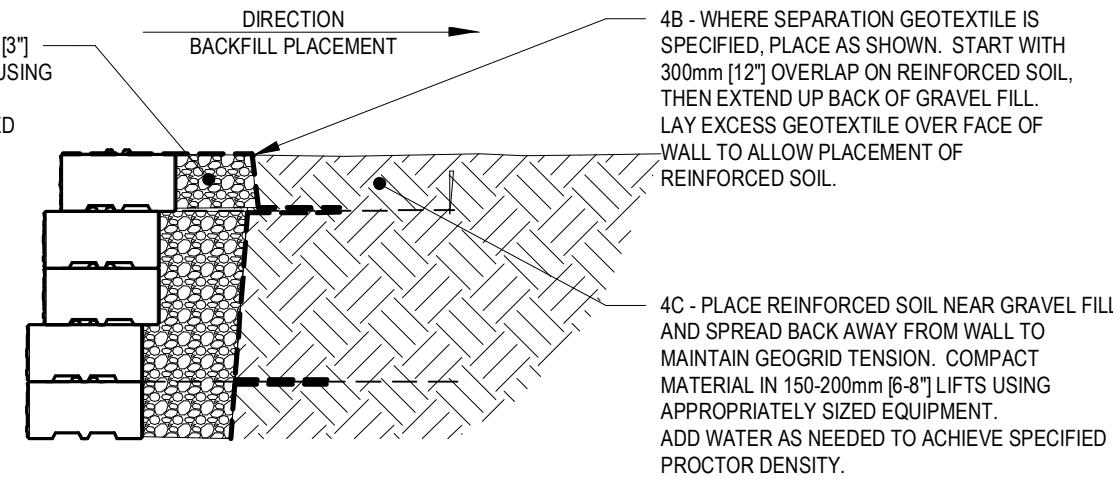
STEP 3 - SECURE GEOGRID

3A - PLACE NEXT LAYER OF WALL BLOCKS. PUSH BLOCKS FORWARD TO ENSURE M-LOCK SYSTEM IS ENGAGED.



STEP 4 - PLACE BACKFILL MATERIAL

4A - PLACE GRAVEL FILL IN 75mm (3") LIFTS AND VIBRATE INTO PLACE USING A LIGHT WEIGHT COMPACTOR. MAINTAIN THE MINIMUM SPECIFIED 300mm (12") THICKNESS.



GENERAL NOTES:

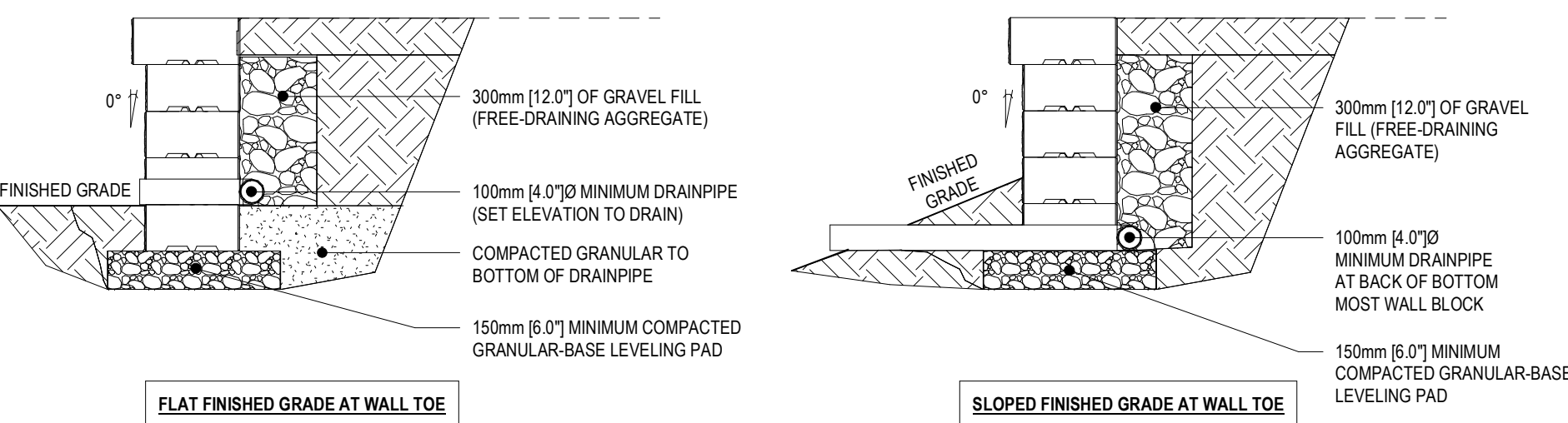
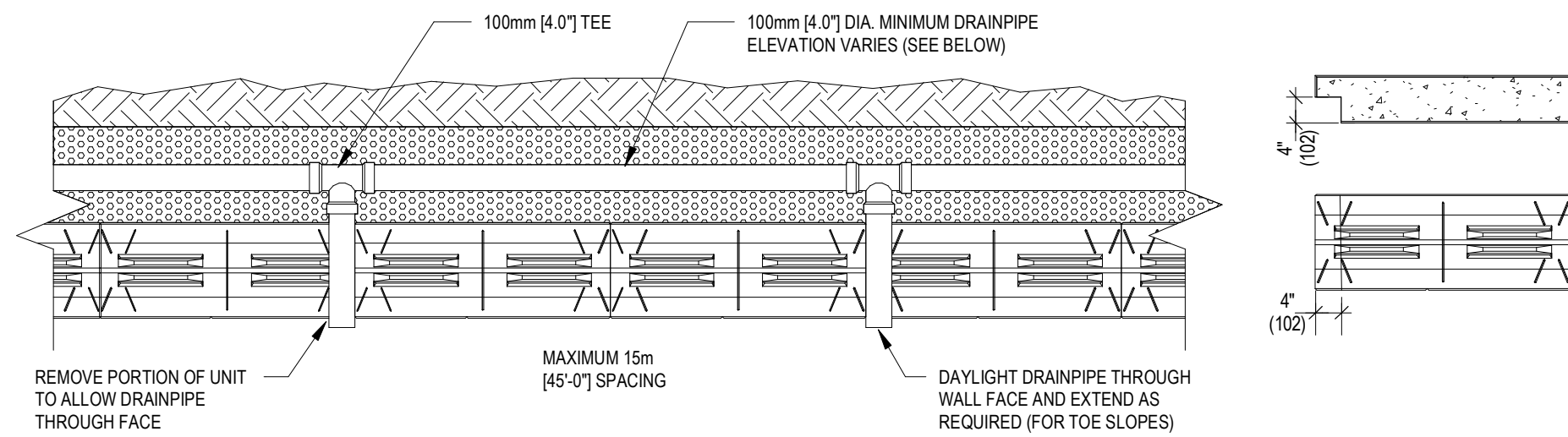
- FOLLOW GEOSYNTHETIC MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS. CARE MUST BE TAKEN. ENSURE GEOGRID IS NOT DAMAGED CONSTRUCTION OR SUBJECT TO UV EXPOSURE.
- MINIMUM GEOGRID LENGTH IS 60% OF THE TOTAL WALL HEIGHT BUT NEVER LESS THAN 1.2m (4').
- LOWEST LAYER OF GEOGRID TO BE WITHIN 2 WALL COURSES OF THE LEVELING PAD. TOP LAYER OF GEOGRID TO BE WITHIN 2 WALL COURSES OF THE COPING.
- GEOGRID LENGTH, PLACEMENT AND TYPE SHALL BE INDICATED ON THE WALL DESIGN.

INSTALLATION:

- ADJACENT SECTIONS OF GEOGRID SHALL ABUT EACH OTHER, NOT OVERLAP.
- DO NOT PLACE MORE THAN TWO (2) COURSES WALL BLOCK PRIOR TO BACKFILLING THE WALL.
- AGGREGATE MATERIAL SHOULD BE DUMPED CLOSE TO THE WALL AND RAKED AWAY FROM THE WALL TO MAINTAIN TENSION IN THE GEOGRID DURING BACKFILLING. WHEN AGGREGATE MATERIAL IS SPREAD, CAUTION MUST BE USED TO ENSURE HAND EQUIPMENT (SHOVELS, RAKES) DOES NOT CONTACT THE GEOGRID OR CAUSE DAMAGE.
- DAMAGE DO NOT ALLOW ANY TRACKED EQUIPMENT DIRECTLY ON TOP OF THE GEOGRID. FOR NECESSARY TRAVEL ON THE GEOGRID, USE ONLY LIGHTWEIGHT RUBBER Tired EQUIPMENT OPERATING AT LOW SPEEDS (LESS THAN 10MPH).
- DO NOT ALLOW SHARP BRAKING OR TURNING. ONLY HAND OPERATED EQUIPMENT SHOULD BE USED WITHIN 1m (3') OF THE BACK OF WALL BACKFILL THICKNESS MAY NEED TO BE REDUCED IN THESE AREAS TO ENSURE PROPER COMPACTION OF THE REINFORCED SOIL.
- ONLY HAND OPERATED EQUIPMENT SHOULD BE USED WITHIN 1m (3') OF THE BACK OF WALL BACKFILL THICKNESS MAY NEED TO BE REDUCED IN THESE AREAS TO ENSURE PROPER COMPACTION OF THE REINFORCED SOIL.

8 GEOGRID INSTALLATION BEST PRACTICES

1 : 25



9 DAYLIGHT DRAINPIPE THROUGH WALL FACE

1 : 25

Key Plan

IMPORTANT NOTE:

- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO CHECK AND VERIFY ALL EXISTING SITE DIMENSIONS WITH DRAWINGS. REPORT ANY DISCREPANCIES AND OMISSIONS TO THE STRUCTURAL ENGINEER, PRIOR TO CONSTRUCTION.
- DO NOT SCALE THESE DRAWINGS.
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No.	Description	Date
1	REVISED TO INCLUDE PRIV. FENCE	18-01-25

Project Name PROTERRA RETAINING WALLS

Client **OAKS**
LANDSCAPE PRODUCTS

Address 11283 HIGHWAY 25,
COLLINGWOOD, ONTARIO

SCALE: (AS SHOWN) DATE: 12.12.24

DESIGNED: T.C.
DRAWN: M.L.T.
PROJ ENG: T.C.
APPROVED: T.C.
SHEET NO.

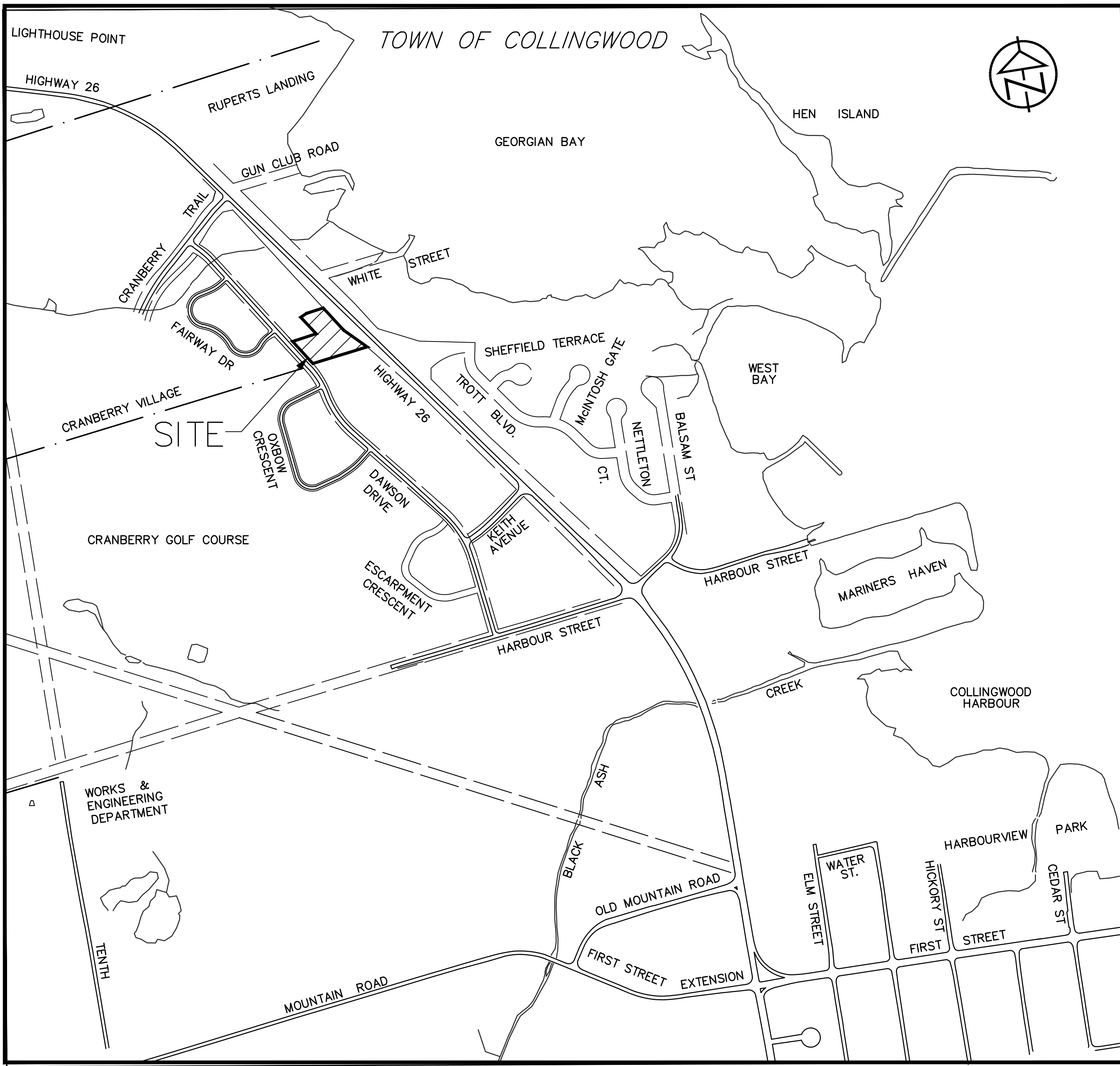
Typical Sections and Proterra Details Copy 1

Project #

241176

THE TERRAZZO

TOWN OF COLLINGWOOD



THIRD SUBMISSION
TATHAM FILE 121075
TOWN FILE D111722
MARCH 2025

INDEX

Sheet Number	Drawing	Description
1	121075-TP-1	TITLE PAGE
2	121075-IN-1	DRAWING INDEX AND LEGEND
3	121075-SC-1	SEDIMENT CONTROL AND REMOVALS PLAN
4	121075-GS-1	GENERAL SERVICING PLAN
5	121075-SG-1	SITE GRADING PLAN
6	121075-WAT-1	WATER DISTRIBUTION PLAN
7	121075-SAN-1	SANITARY DRAINAGE PLAN
8	121075-STM-1	STORM DRAINAGE PLAN
9	121075-PP-1	PLAN & PROFILE STA. 1+000 TO STA. 1+085 STA. 2+000 TO STA. 2+095
10	121075-PP-2	PLAN & PROFILE STA. 3+000 TO STA. 3+195
11	121075-DE-1	DETAILS AND NOTES
12	121075-CUP-1	COMPOSITE UTILITY PLAN
13	121075-E1.1	ELECTRICAL SITE PLAN
14	121075-E2.1	SINGLE LINE DIAGRAM
15	121075-E3.1	STREETLIGHT LAYOUT
16	121075-E3.2	PHOTOMETRIC LAYOUT
17	121075-E4.1	ELECTRICAL DETAILS SHEET
18	121075-E4.2	LUMINAIRE AND POLE SPECIFICATIONS
19	121075-E5.1	USF STANDARDS

LEGEND

PROPERTY LINE	
EXISTING CENTERLINE	
PROPOSED CENTERLINE	
EXISTING EDGE OF ASPHALT	
PROPOSED EDGE OF ASPHALT	
EXISTING EDGE OF SHOULDER	
PROPOSED EDGE OF SHOULDER	
PROPOSED CURB	
EXISTING DITCH/DIRECTION OF FLOW	
PROPOSED DITCH/DIRECTION OF FLOW	
EXISTING SANITARY SEWER/SIZE/DIRECTION OF FLOW	
PROPOSED SANITARY SEWER/SIZE/DIRECTION OF FLOW	
EXISTING SANITARY SERVICE	
PROPOSED SANITARY SERVICE	
EXISTING WATERMAIN/SIZE	
PROPOSED WATERMAIN/SIZE	
EXISTING GOLF COURSE IRRIGATION LINE	
PROPOSED WATERMAIN/SIZE	
EXISTING WATER SERVICE	
PROPOSED WATER SERVICE	
EXISTING STORM SEWER/SIZE/DIRECTION OF FLOW	
PROPOSED STORM SEWER/SIZE/DIRECTION OF FLOW	
PROPOSED STORM SERVICE	
EXISTING CULVERT	
PROPOSED CULVERT	
PROPOSED SWALE LOCATION	
EXISTING GAS MAIN	
PROPOSED GAS MAIN	
EXISTING FENCELINE	
PROPOSED FENCELINE	
EXISTING BUSHLINE	
EXISTING CONTOUR	
EXISTING SPOT ELEVATION	
PROPOSED SPOT ELEVATION	
PROPOSED TOP OF CURB ELEVATION	
EXISTING GRADING DIRECTION	
PROPOSED GRADING DIRECTION	
EXISTING TEMPORARY BENCHMARK	
EXISTING STANDARD IRON BAR	
EXISTING BOREHOLE/NUMBER	
EXISTING GAS VALVE	
EXISTING HYDRO TRANSFORMER	
EXISTING CABLE PEDESTAL	
EXISTING BELL PEDESTAL	
EXISTING BELL MAINTENANCE HOLE	
EXISTING HYDRO POLE	
EXISTING HYDRO GUY WIRE	
EXISTING LIGHT STANDARD	
EXISTING TRAFFIC SIGN	
EXISTING DECIDUOUS TREE	
EXISTING CONIFEROUS TREE	
EXISTING SHRUB	
EXISTING SANITARY MAINTENANCE HOLE/NUMBER	
PROPOSED SANITARY MAINTENANCE HOLE/NUMBER	
PROPOSED SANITARY SERVICE CAP	
EXISTING HYDRANT	
PROPOSED HYDRANT	
EXISTING WATER VALVE	
PROPOSED WATER VALVE	
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PROPOSED WATERMAIN PLUG	
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EXISTING STORM MAINTENANCE HOLE/NUMBER	
PROPOSED STORM MAINTENANCE HOLE/NUMBER	
EXISTING CATCH BASIN	
PROPOSED CATCH BASIN	
PROPOSED CATCH BASIN MAINTENANCE HOLE/NUMBER	
PROPOSED DOUBLE CATCH BASIN MAINTENANCE HOLE/NUMBER	
PROPOSED DOUBLE CATCH BASIN/NUMBER	
PROPOSED DITCH INLET CATCH BASIN/NUMBER	
PROPOSED TACTILE WALKING SURFACE INDICATOR	
PROPOSED CURB DEPRESSION	
PROPOSED SOFT LANDSCAPING	

PROPOSED 1Ø PRIMARY CABLE AND CONDUIT (WHITE PHASE).

PROPOSED SECONDARY ELECTRICAL SERVICE CABLE(S) (120/240V).

PROPOSED STREET LIGHTING CABLE IN COMMON TRENCH WITH EPCOR.

PROPOSED STREET LIGHT CABLE(S) AND 53mmØ CONDUIT (PVC TYPE DB2).

PROPOSED 1PH POWER TRANSFORMER AND GROUNDING GRID

PROPOSED STREET LIGHT, L# DENOTES LUMINAIRE TYPE

PROPOSED WALL PACK LIGHT, W# DENOTES LUMINAIRE TYPE

PROPOSED WALL PACK LIGHT, W# DENOTES LUMINAIRE TYPE

PROPOSED BOLLARD LIGHT, B# DENOTES LUMINAIRE TYPE

PROPOSED GROUND ROD AT END OF STREET LIGHT CIRCUIT

PROPOSED STREET LIGHT POWER PEDESTAL. TO BE INSTALLED A MINIMUM OF 1.0m FROM TRANSFORMER.

SECONDARY SERVICE STUB

PROPOSED SINGLE ELECTRICAL METER BASE

PROPOSED GANGED ELECTRICAL METER BASES

PROPOSED UNDERGROUND ROAD CROSSINGS WITH NUMBERED TAG, DUCT BANK (TYPE DB2) FOR ELECTRICAL CABLES AS FOLLOWS:

- 1P = ONE PRIMARY DUCT
- 1XP = ONE PRIMARY SPARE DUCT
- 1S = ONE SECONDARY DUCT
- 1XS = ONE SECONDARY SPARE DUCT
- 1SL = ONE STREET LIGHT DUCT
- 1XSL = ONE STREET LIGHT SPARE DUCT
- 1B = ONE BELL DUCT
- 1R = ONE ROGERS CABLE DUCT
- FLAT = ONE ROW, NOT STACKED

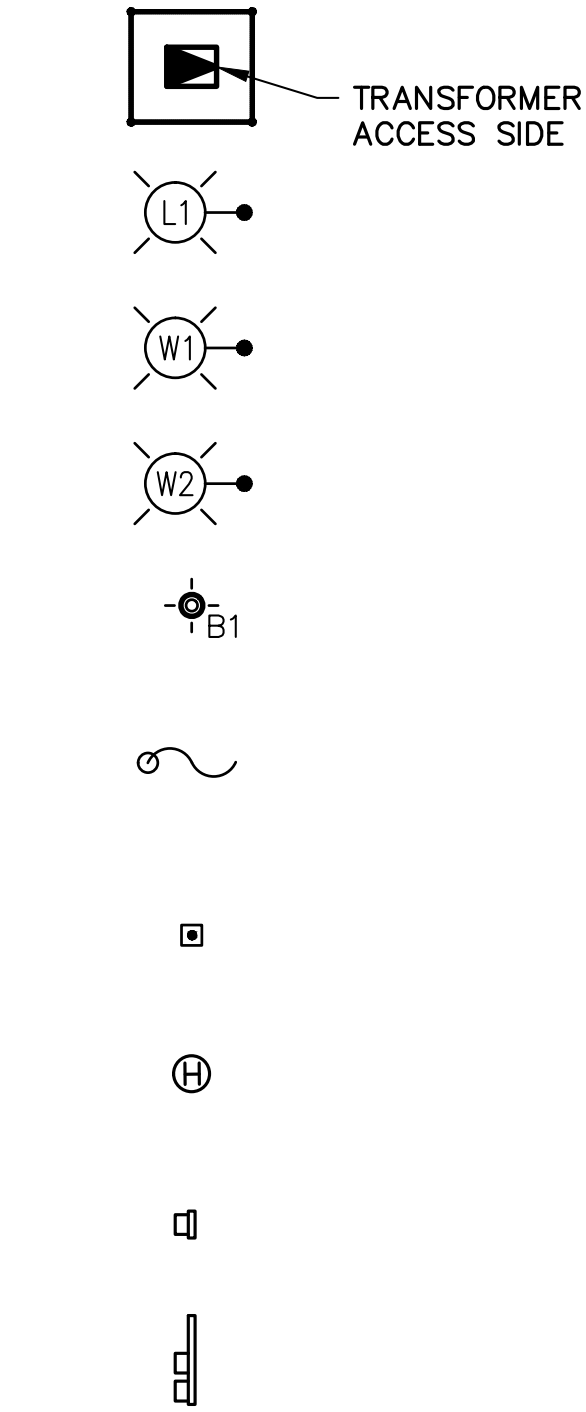
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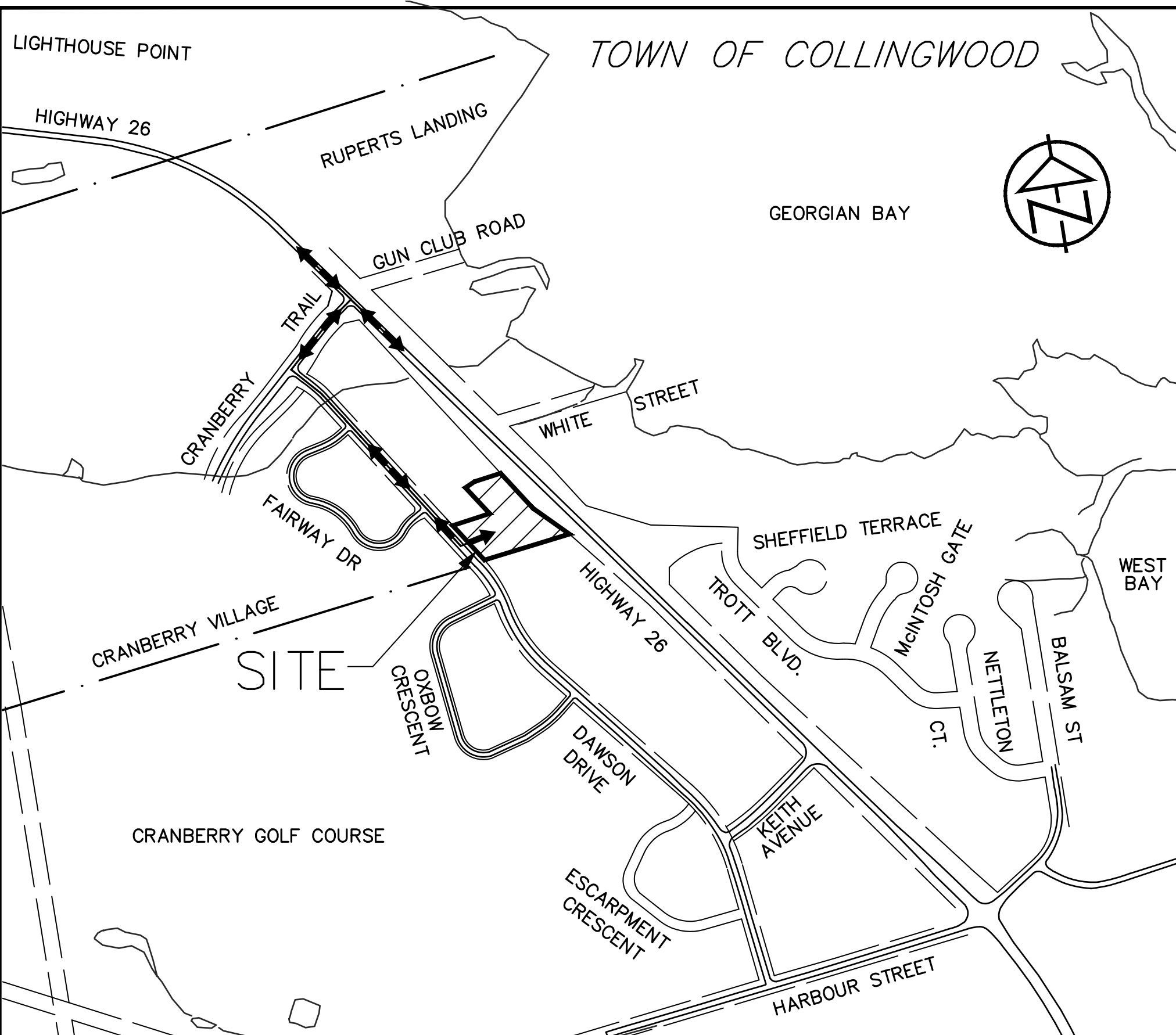
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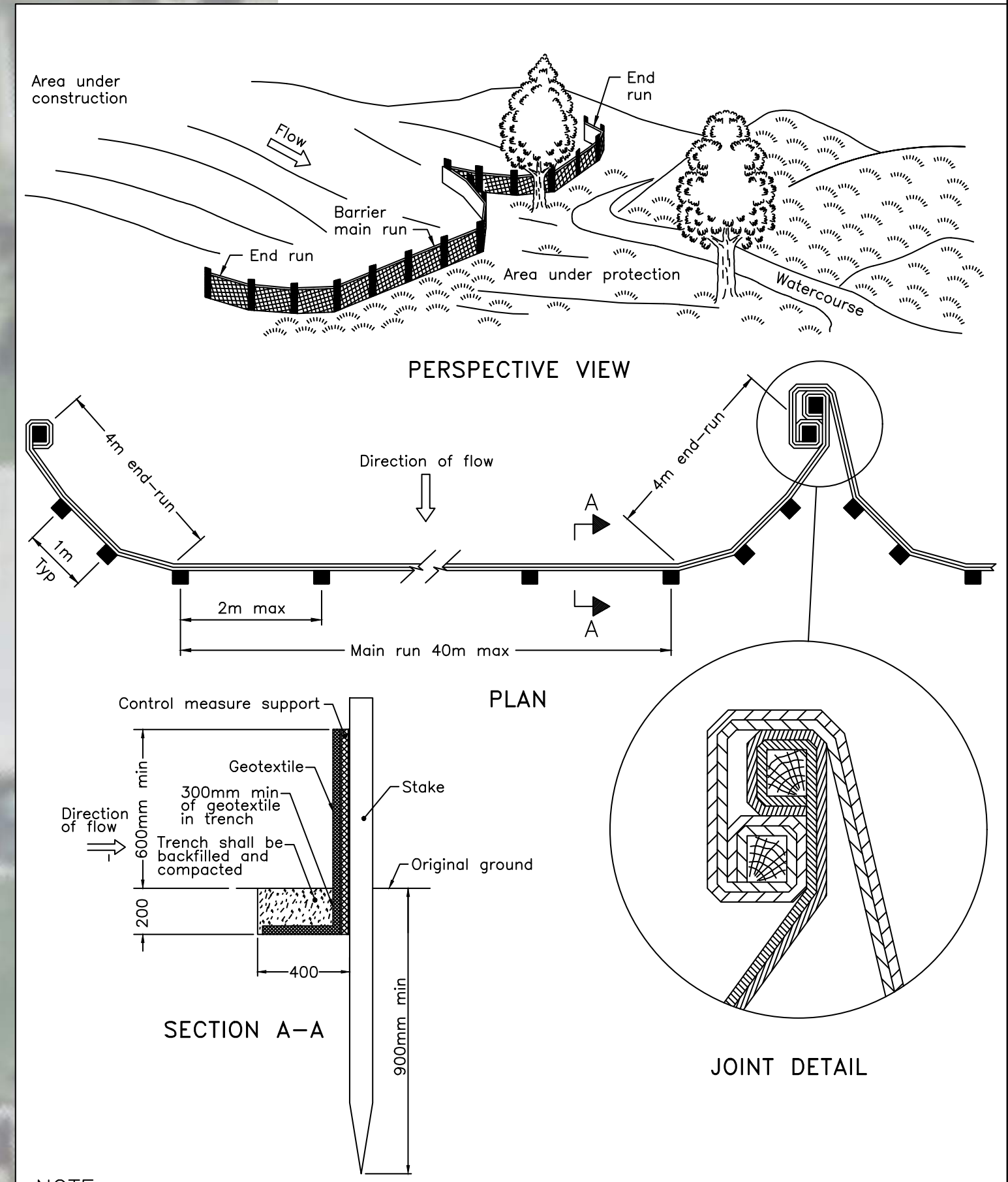
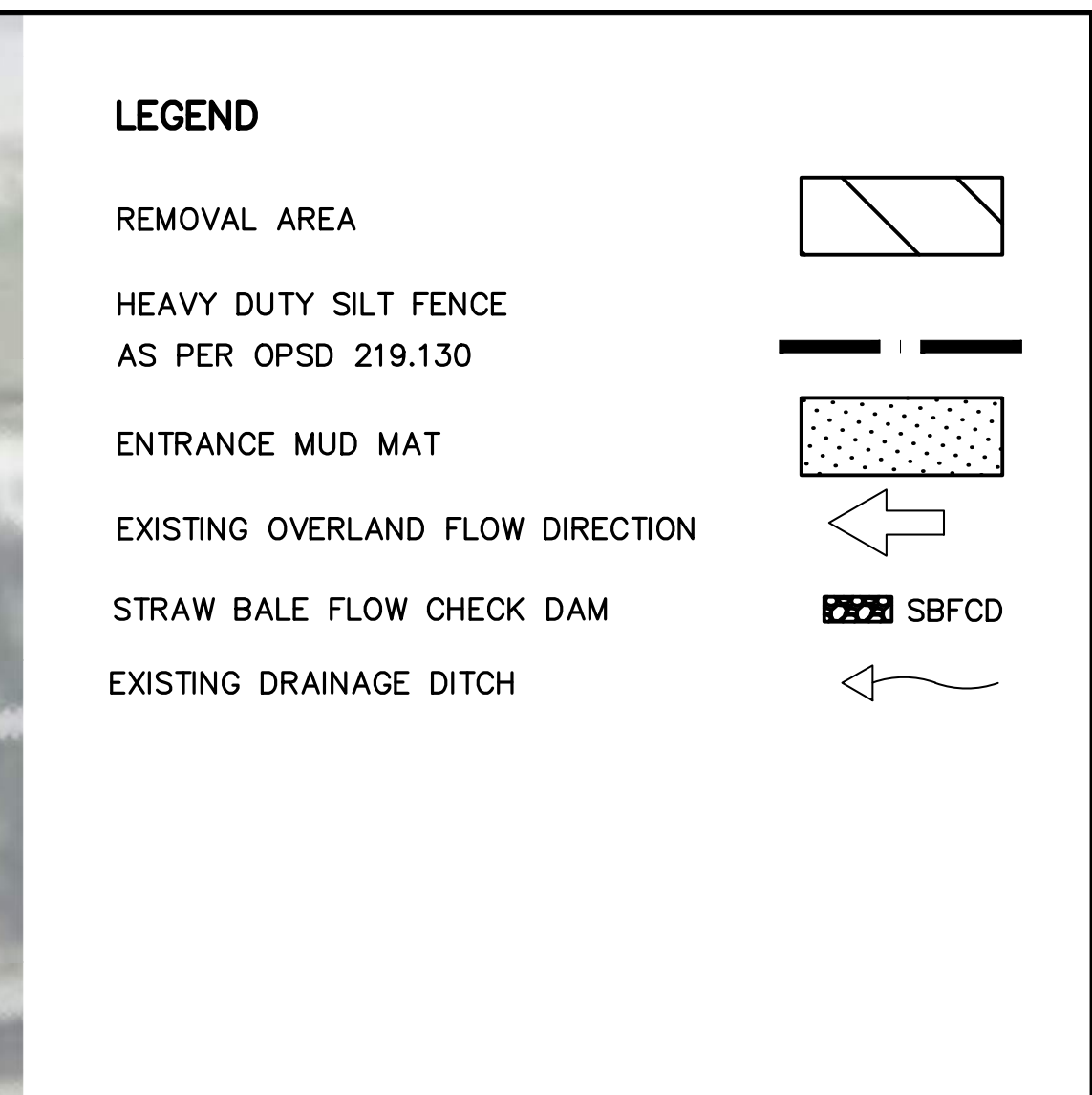
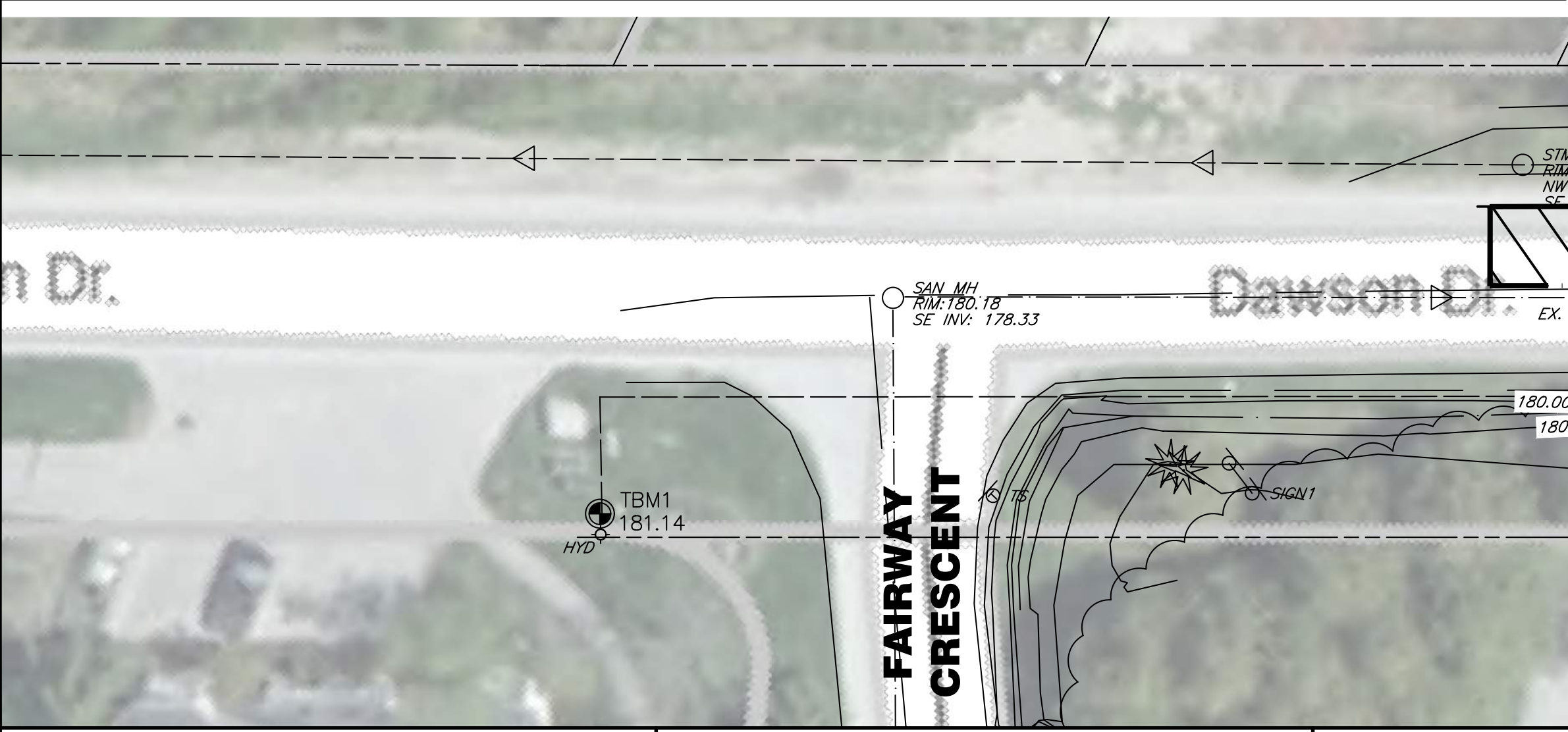
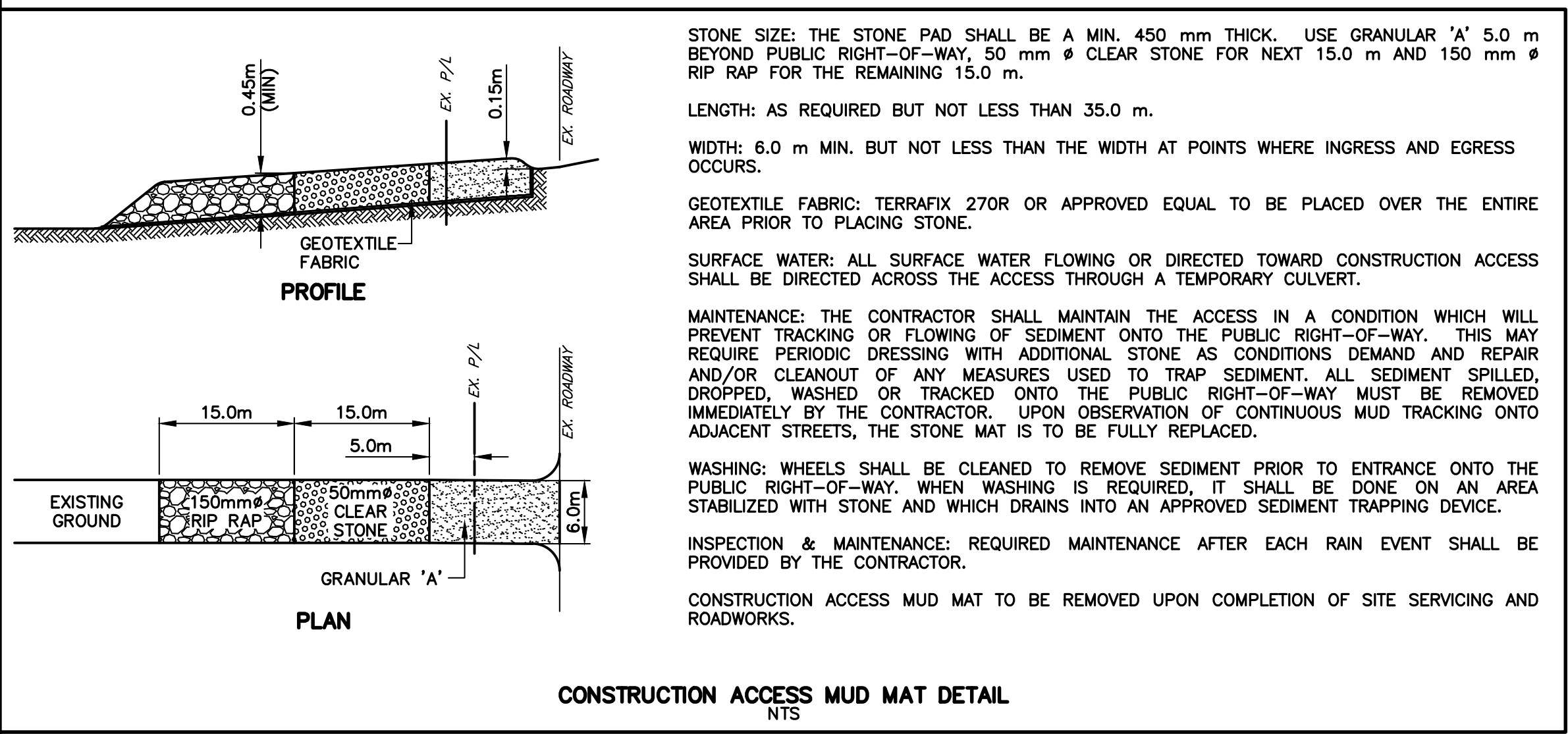
1S, 1XS, 1SL, 1XSL, 1P, 1XP

DISCLAIMER AND COPYRIGHT CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED. TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.	BENCHMARKS TBM1 – ELEVATION 181.14m TOP NUT OF FIRE HYDRANT LOCATED AT NORTHWEST CORNER OF DAWSON DRIVE AND FAIRWAY CRESCENT SOUTH INTERSECTION.	NOTES 1. LEGAL AND TOPOGRAPHICAL INFORMATION PROVIDED BY ZUBEK, EMO, PATTEN & THOMSEN LIMITED, RECEIVED APRIL 9, 2021, JOB NO. 86-39-8. 2. SITE PLAN LAYOUT PROVIDED BY ORGANICA STUDIO+ INC. DATED MARCH 4, 2025.	No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP 	THE TERRAZZO TOWN OF COLLINGWOOD	 DRAWING INDEX AND LEGEND		
			1.	1ST SUBMISSION	OCT 2022					
			2.	2ND SUBMISSION	JUN 2024					
			3.	3RD SUBMISSION	MAR 2025					

DESIGN: AVN/MAB	FILE: 121075	DWG: IN-1
DRAWN: AVN/KRL	DATE: DEC 2021	
CHECK: MAB/KRS	SCALE: NTS	



- HAUL ROUTE NOTES**
- HAUL ROUTE VIA HIGHWAY 26 TO CRANBERRY TRAIL EAST AND DAWSON DRIVE.
 - ALL HAUL ROUTE ROADS TO BE KEPT CLEAN DURING CONSTRUCTION AND ANY MUD/SOIL TRACKED OFF SITE SHALL BE CLEANED AS REQUIRED BY THE CONTRACTOR OR AS DIRECTED BY THE ENGINEER/ARCHITECT OR TOWN.

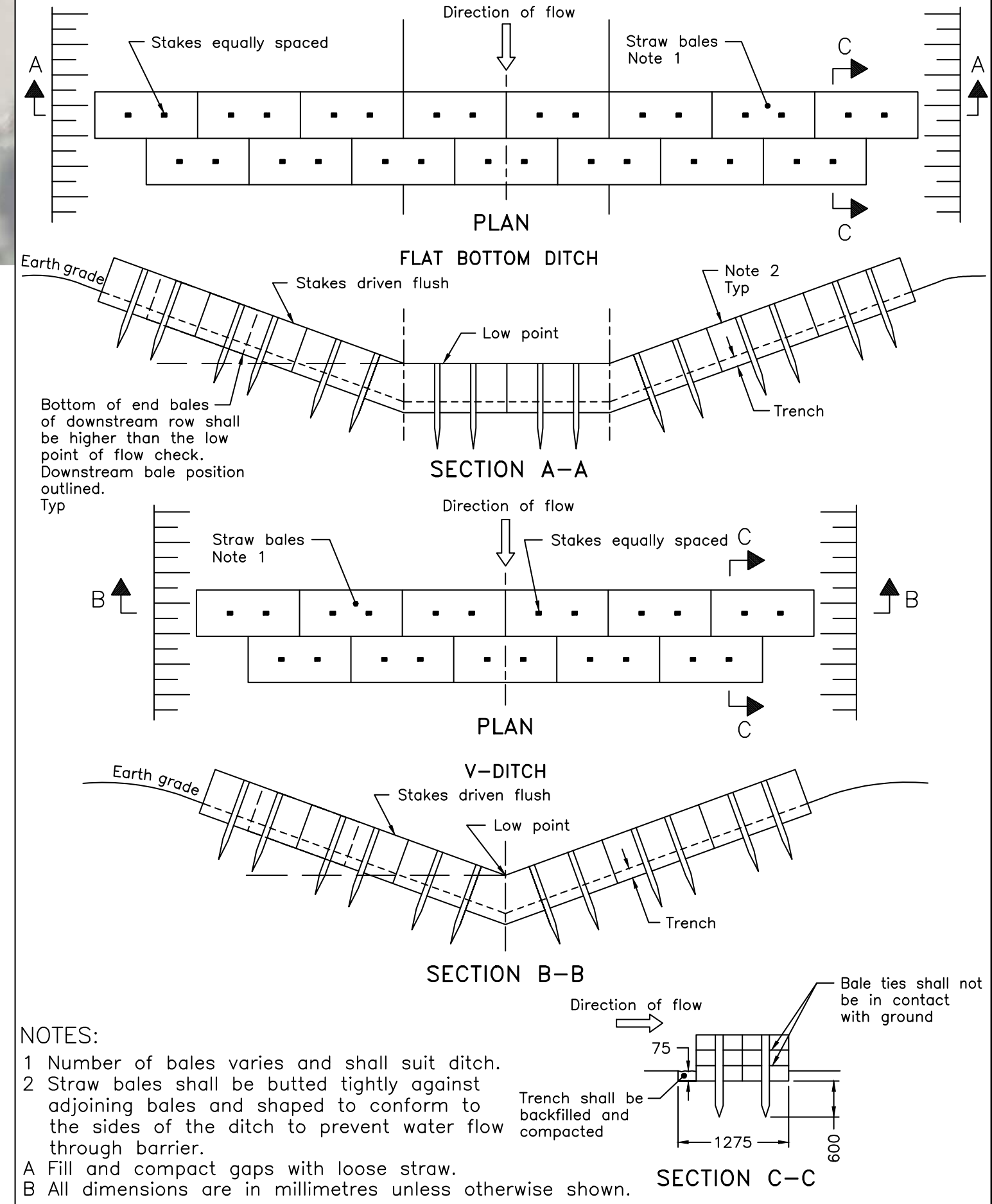


NOTE:
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2021 Rev 3

**HEAVY-DUTY
SILT FENCE BARRIER**

OPSD 219.130



NOTES:
1 Number of bales varies and shall suit ditch.
2 Straw bales shall be baled tightly against adjoining bales and shaped to conform to the sides of the ditch to prevent water flow through barrier.
A Fill and compact gaps with loose straw.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2021 Rev 3

STRAW BALE FLOW CHECK DAM

OPSD 219.180

DISCLAIMER AND COPYRIGHT

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BENCHMARKS

TBM1 - ELEVATION 181.14m
TOP NUT OF FIRE HYDRANT LOCATED AT NORTHWEST CORNER OF DAWSON DRIVE AND FAIRWAY CRESCENT SOUTH INTERSECTION.

NOTES

- LEGAL AND TOPOGRAPHICAL INFORMATION PROVIDED BY ZUBEK, EMO, PATTEN & THOMSEN LIMITED, RECEIVED APRIL 9, 2021, JOB NO. 86-39-8.
- SITE PLAN LAYOUT PROVIDED BY ORGANICA STUDIO+ INC. DATED MARCH 4, 2025.

No.	REVISION DESCRIPTION	DATE
1.	1ST SUBMISSION	OCT 2022
2.	2ND SUBMISSION	JUN 2024
3.	3RD SUBMISSION	MAR 2025

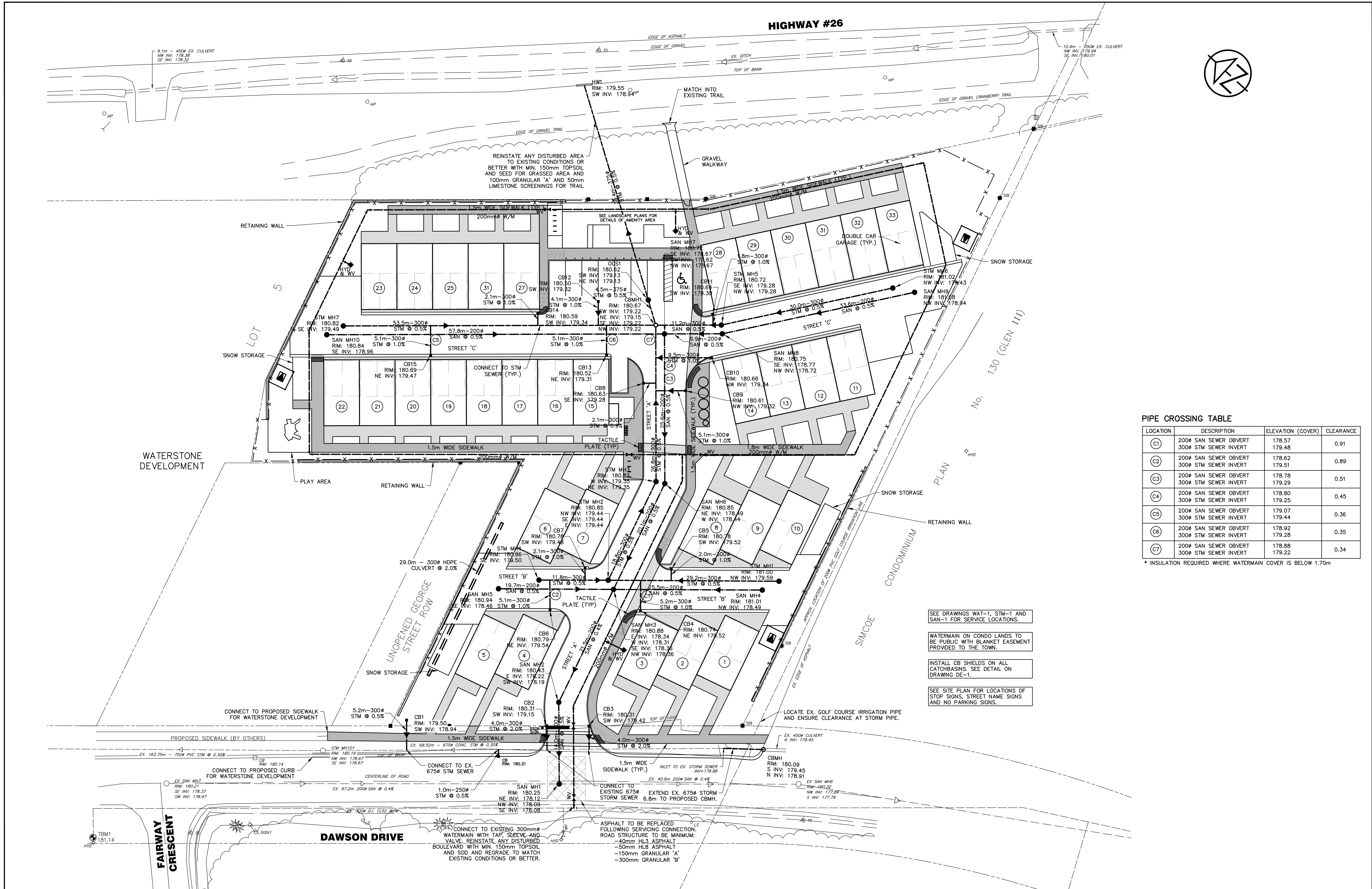
ENGINEER STAMP

**THE TERRAZZO
TOWN OF COLLINGWOOD**

**SEDIMENT CONTROL AND
REMOVALS PLAN**

**TATHAM
ENGINEERING**

DESIGN: AVN/MAB	FILE: 121075	DWG:
DRAWN: AVN/KRL	DATE: DEC 2021	SC-1
CHECK: MAB/KRS	SCALE: 1:300	



PIPE CROSSING TABLE			
LOCATION	DESCRIPTION	ELEVATION (COVER)	CLEARANCE
C1	200# SAN SEWER OBVERT 300# STM SEWER INVERT	178.57 179.48	0.91
C2	200# SAN SEWER OBVERT 300# STM SEWER INVERT	178.62 179.51	0.89
C3	200# SAN SEWER OBVERT 300# STM SEWER INVERT	178.78 179.29	0.51
C4	200# SAN SEWER OBVERT 300# STM SEWER INVERT	178.80 179.25	0.45
C5	200# SAN SEWER OBVERT 300# STM SEWER INVERT	179.07 179.44	0.36
C6	200# SAN SEWER OBVERT 300# STM SEWER INVERT	178.92 179.28	0.35
C7	200# SAN SEWER OBVERT 300# STM SEWER INVERT	178.88 179.22	0.34

* INSULATION REQUIRED WHERE WATERMAIN COVER IS BELOW 1.70m

SEE DRAWINGS WAT-1, STM-1 AND SAN-1 FOR SERVICE LOCATIONS.

WATERMAIN ON CONDO LANDS TO BE PUBLIC WITH BLANKET EASEMENT PROVIDED TO THE TOWN.

INSTALL CB SHIELDS ON ALL CATCHBASINS. SEE DETAIL ON DRAWING DE-1.

SEE SITE PLAN FOR LOCATIONS OF STOP SIGNS, STREET NAME SIGNS AND NO PARKING SIGNS.

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BENCHMARKS

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ENGINEER STAMP

THE TERRAZZO
TOWN OF COLLINGWOOD

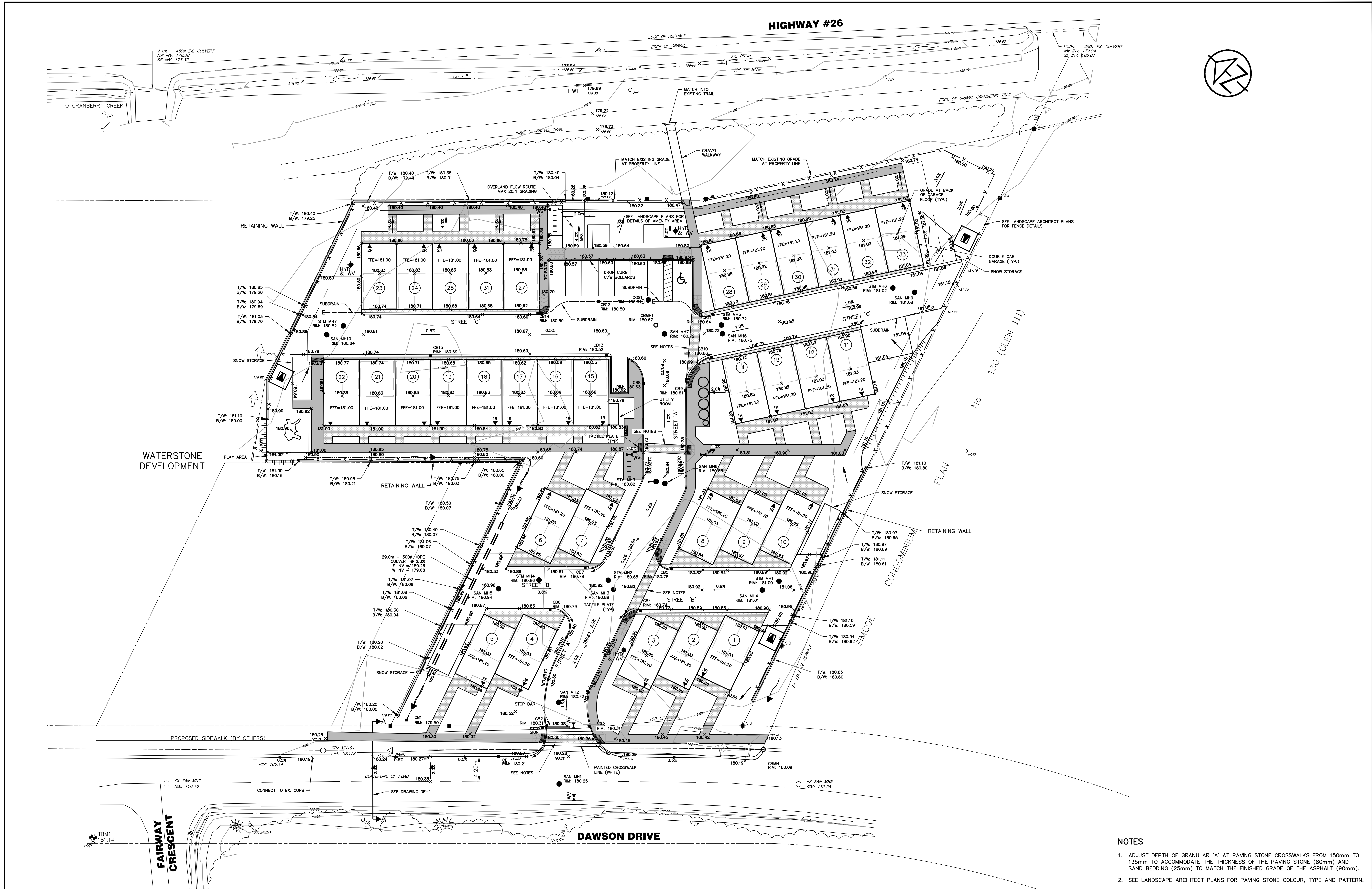
GENERAL SERVICING PLAN

DESIGN: AVN/MAB
DRAWN: AVN/KRL
CHECK: MAB/KRS

FILE: 121075
DATE: DEC 2021
SCALE: 1:300

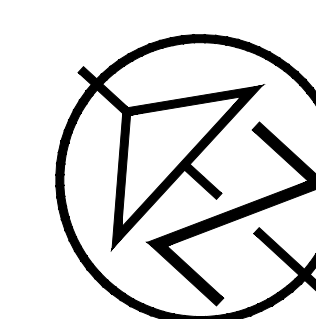
DWG:
GS-1

Drawing Name: 121075 - GS01.dwg, Plotted: Apr 17, 2025



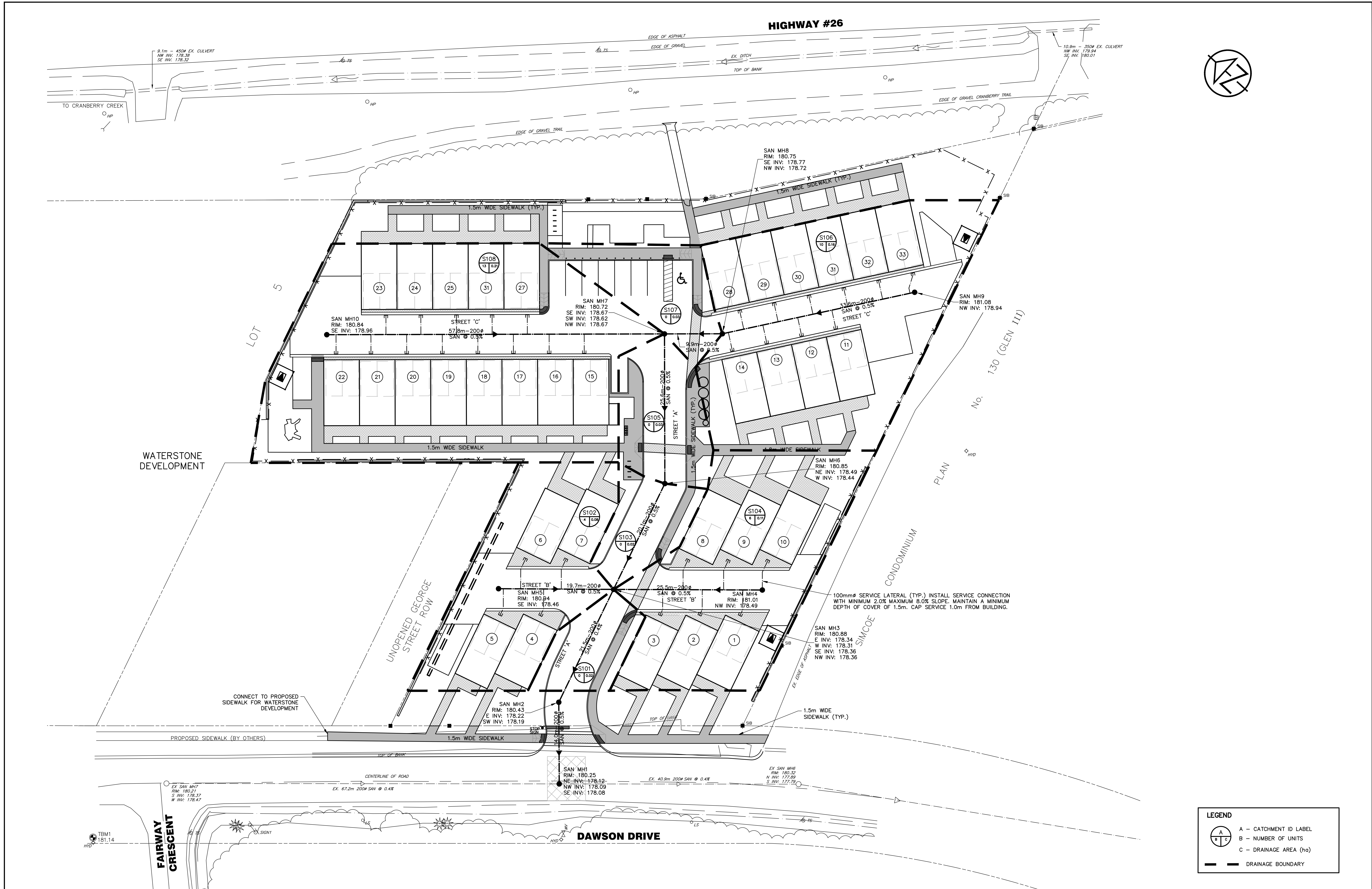
- NOTES
1. ADJUST DEPTH OF GRANULAR 'A' AT PAVING STONE CROSSWALKS FROM 150mm TO 135mm TO ACCOMMODATE THE THICKNESS OF THE PAVING STONE (80mm) AND SAND BEDDING (25mm) TO MATCH THE FINISHED GRADE OF THE ASPHALT (90mm).
 2. SEE LANDSCAPE ARCHITECT PLANS FOR PAVING STONE COLOUR, TYPE AND PATTERN.

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				2ND SUBMISSION	JUN 2024						
				3RD SUBMISSION	MAR 2025		SITE GRADING PLAN				
								DESIGN: AVN/MAB	FILE: 121075	DWG:	
								DRAWN: AVN/KRL	DATE: DEC 2021	SG-1	
								CHECK: MAB/KRS	SCALE: 1:300		

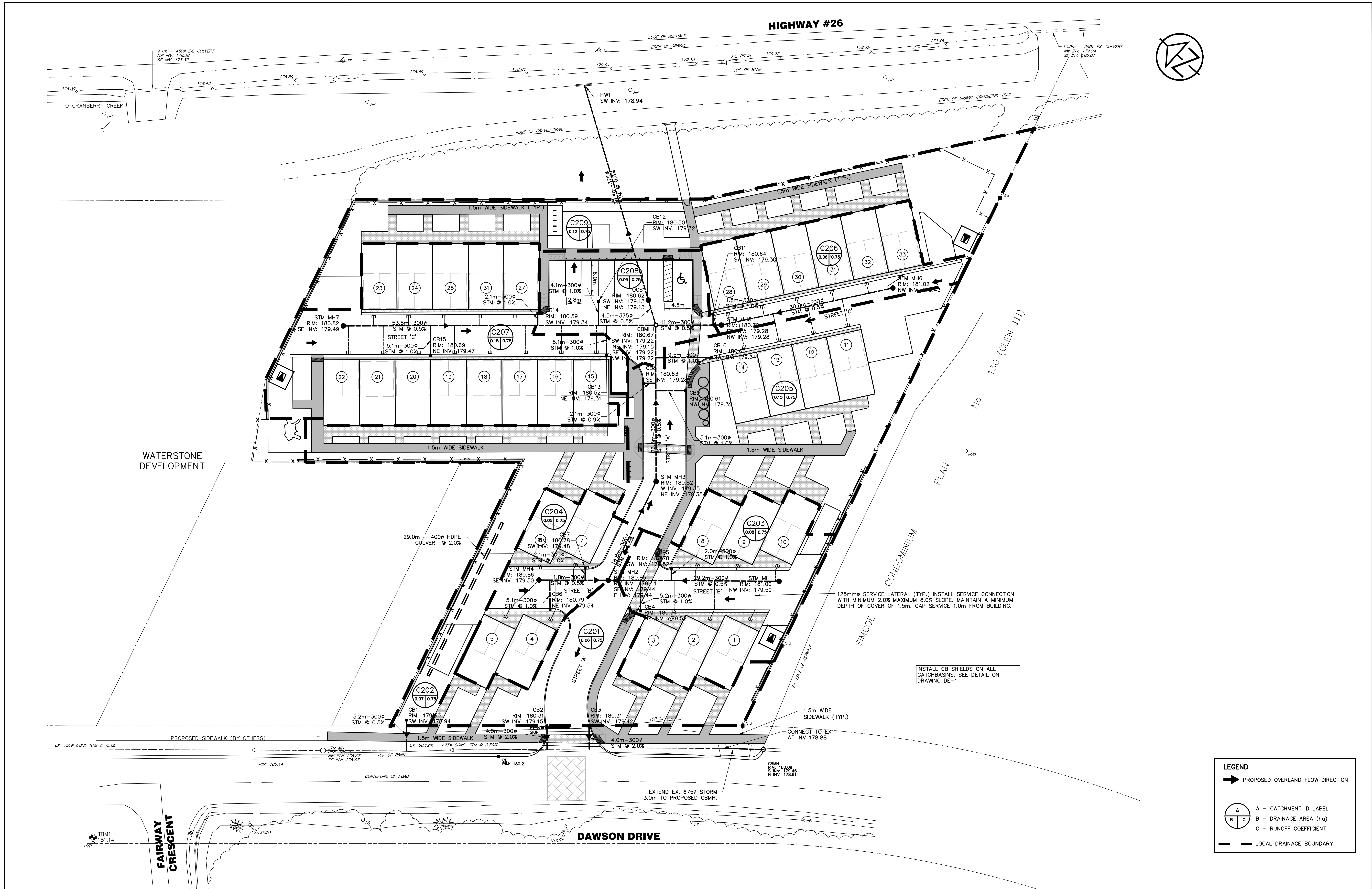


CURB STOP VALVE IN PAVING STONE WALKWAY DETAIL

 TATHAM ENGINEERING		
DESIGN: AVN/MAB	FILE: 121075	DWG: WAT-1
DRAWN: AVN/KRL	DATE: DEC 2021	
CHECK: MAB/KRS	SCALE: 1:300	



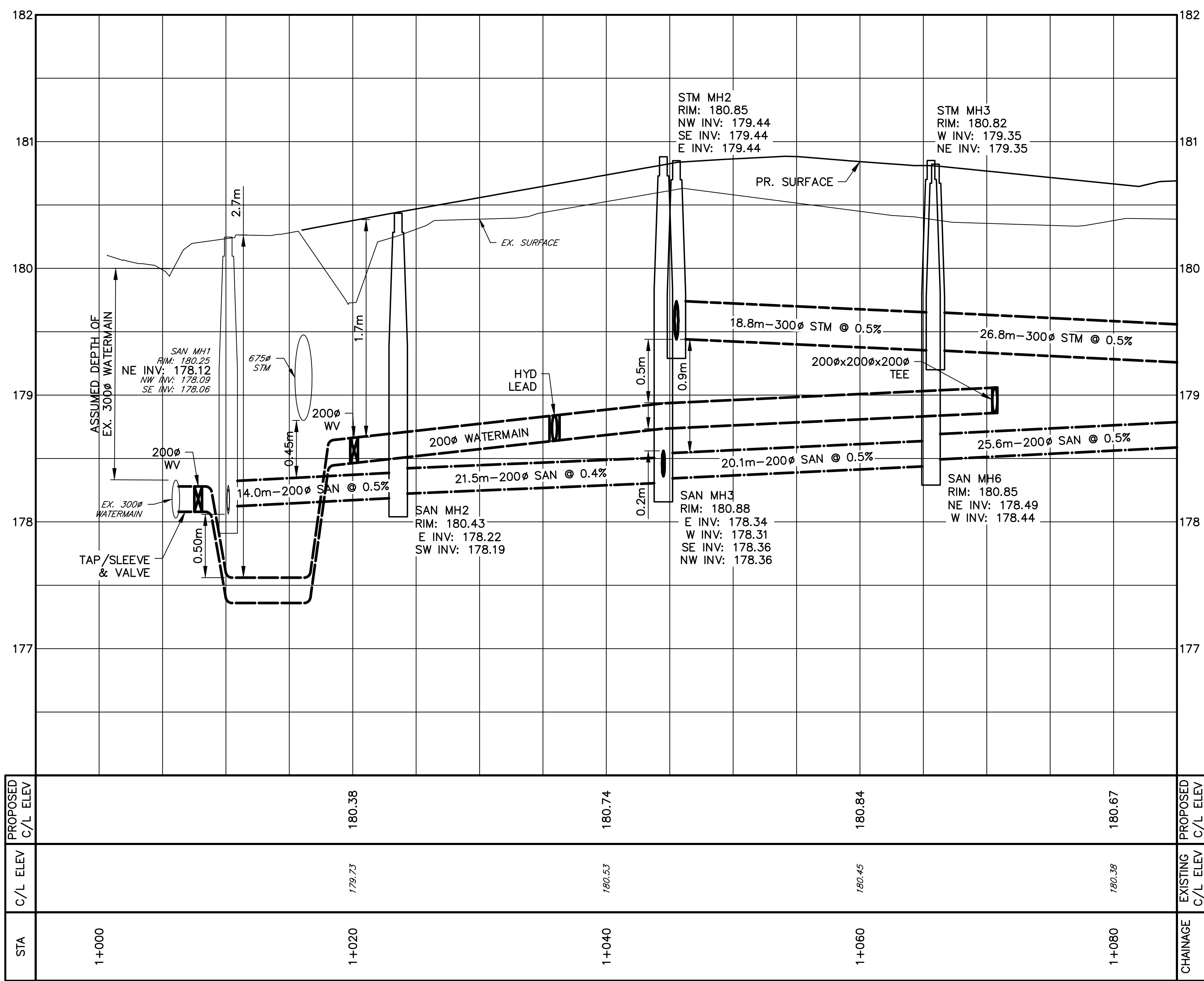
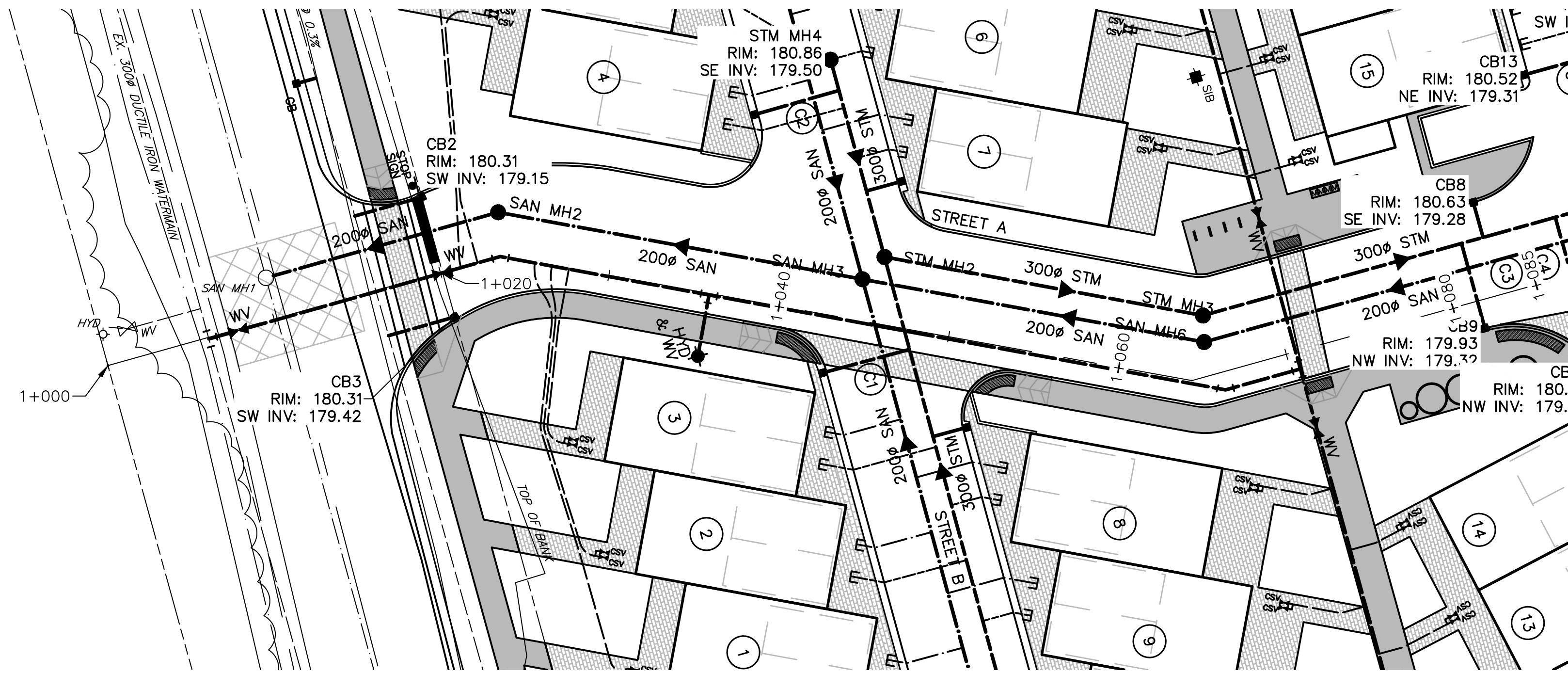
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			1.	1ST SUBMISSION	OCT 2022					
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			3.	3RD SUBMISSION	MAR 2025					
							SANITARY DRAINAGE PLAN	DESIGN: AVN/MAB	FILE: 121075	DWG:
						DRAWN: AVN/KRL		DATE: DEC 2021	SAN-1	
						CHECK: MAB/KRS		SCALE: 1:300		



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			2.	2ND SUBMISSION	JUN 2024						
			3.	3RD SUBMISSION	MAR 2025						



KEY PLAN



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BENCHMARKS
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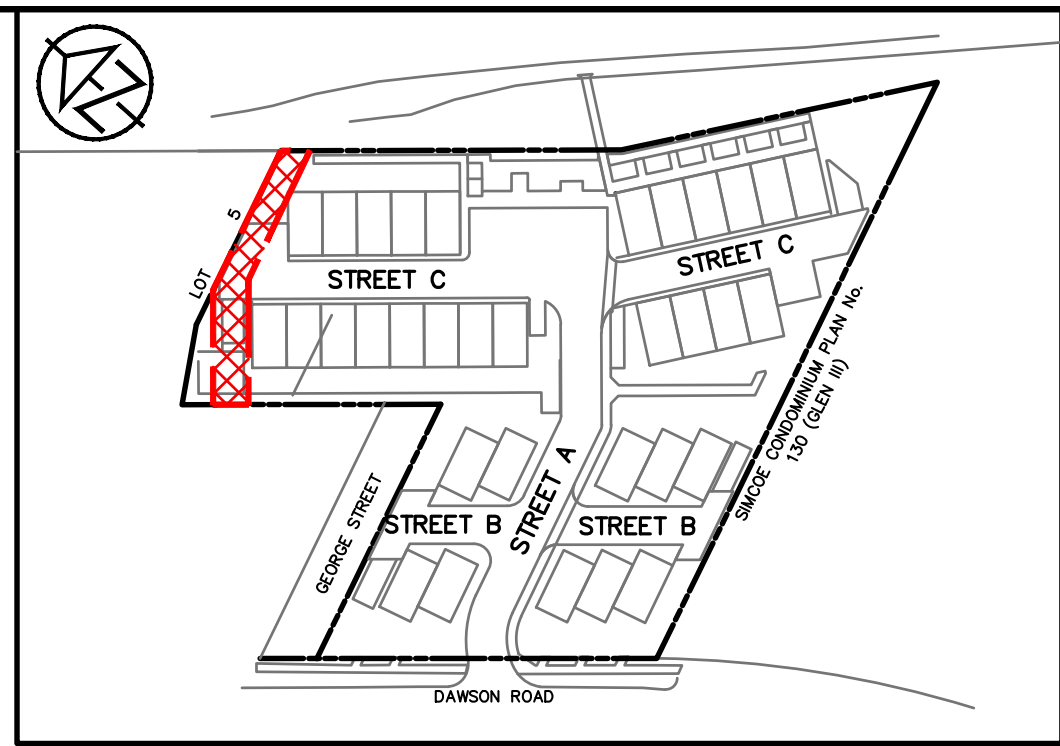
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1.	3RD SUBMISSION	MAR 2025

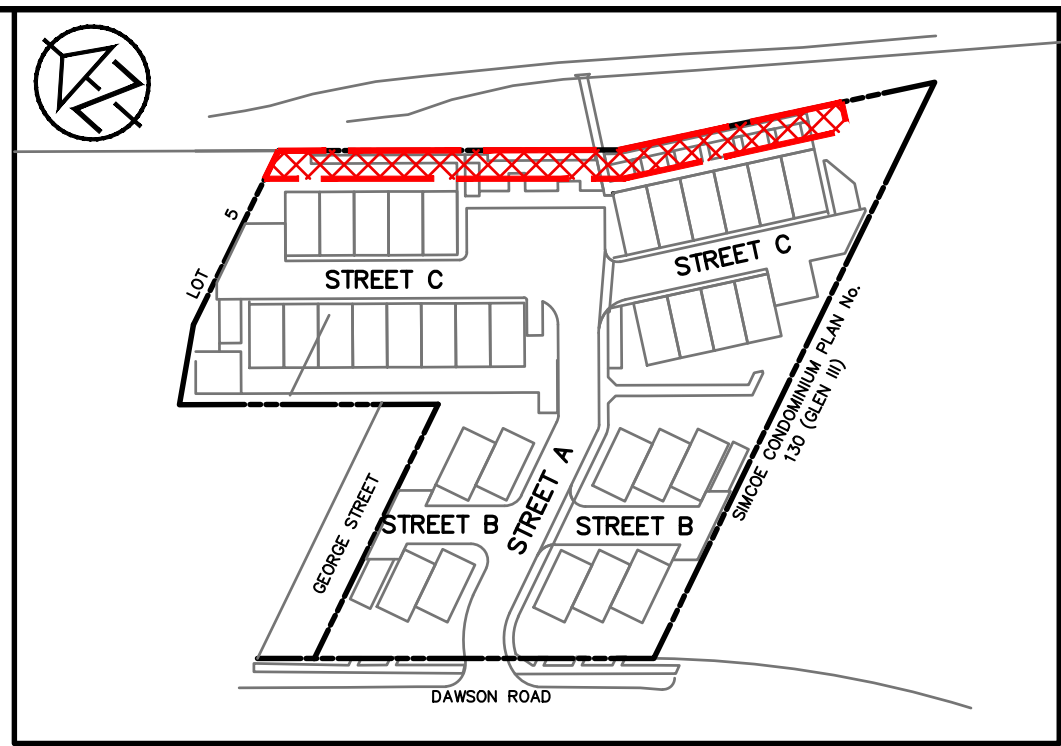
ENGINEER STAMP
K. R. SANSON
PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO
11/27/25

THE TERRAZZO
TOWN OF COLLINGWOOD
PLAN & PROFILE
STA. 1+000 TO STA. 1+085
STA. 2+000 TO STA. 2+095

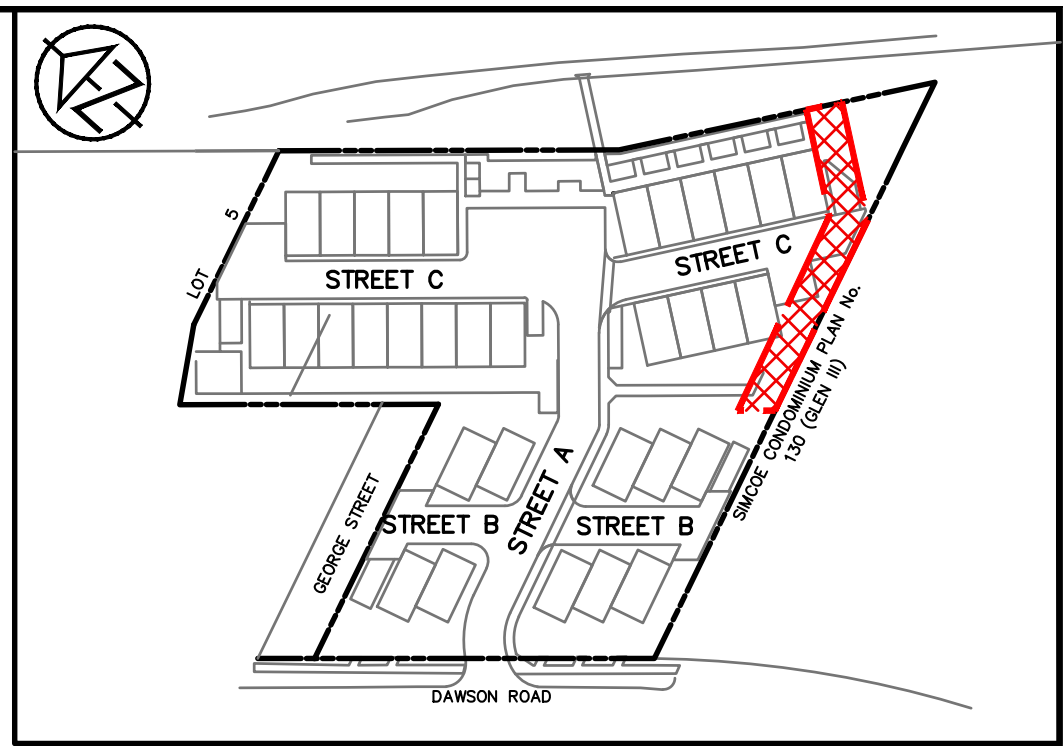
TATHAM ENGINEERING
DESIGN: MAB
DRAWN: DMS/KRL
CHECK: KRS
FILE: 121075
DATE: JAN 2025
SCALE: 1:300H
1:30V
DWG: **PP-1**



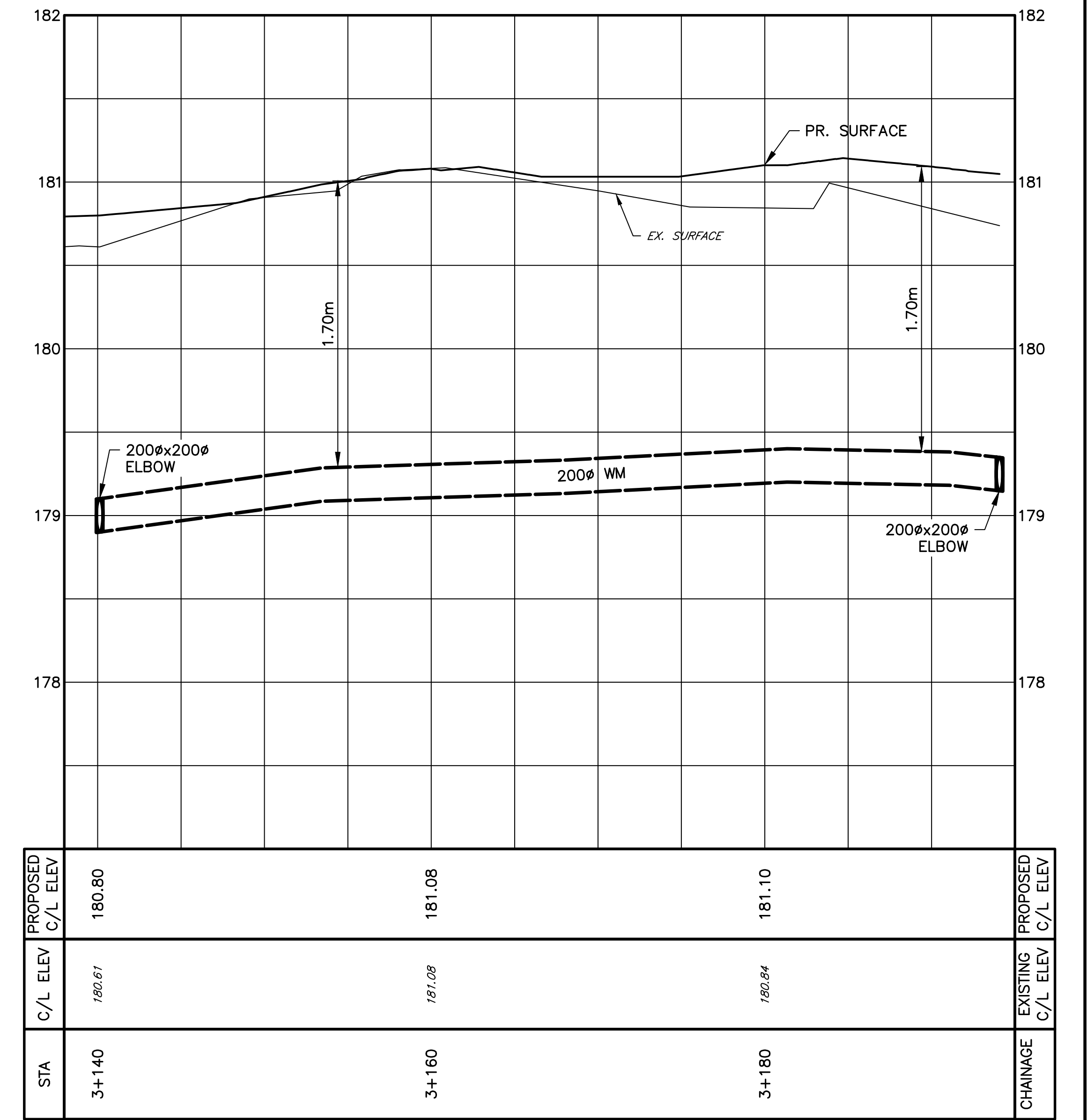
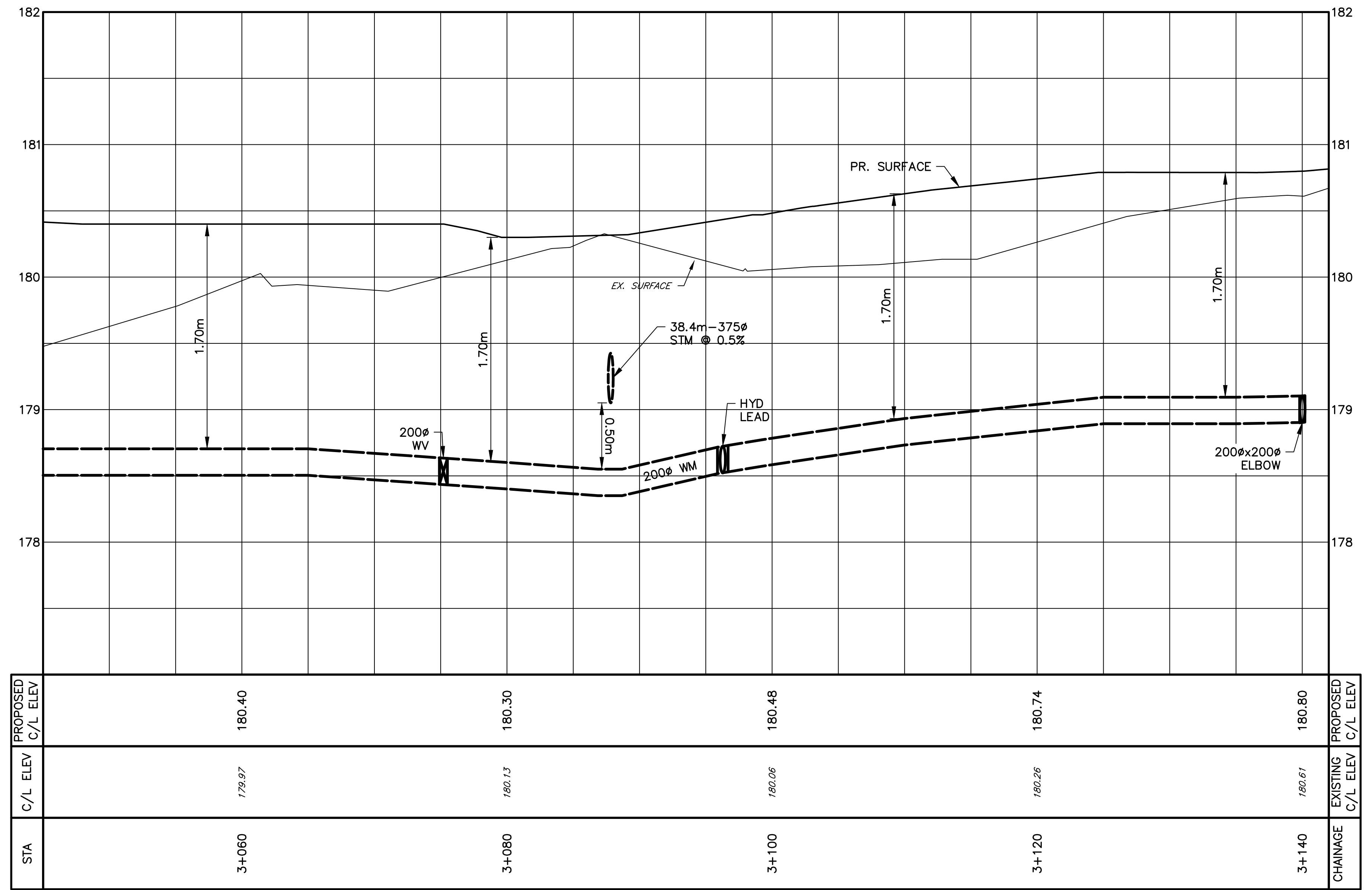
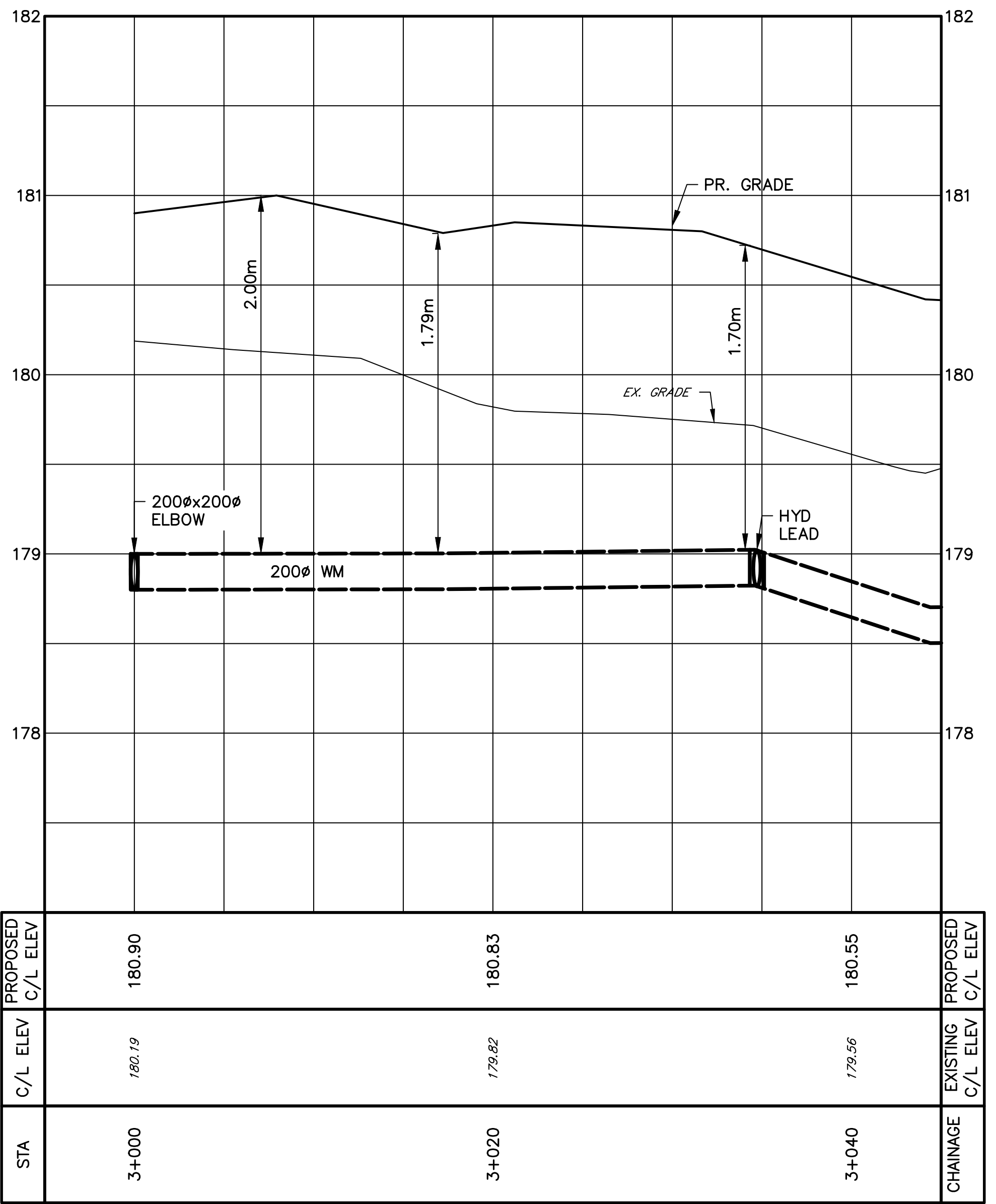
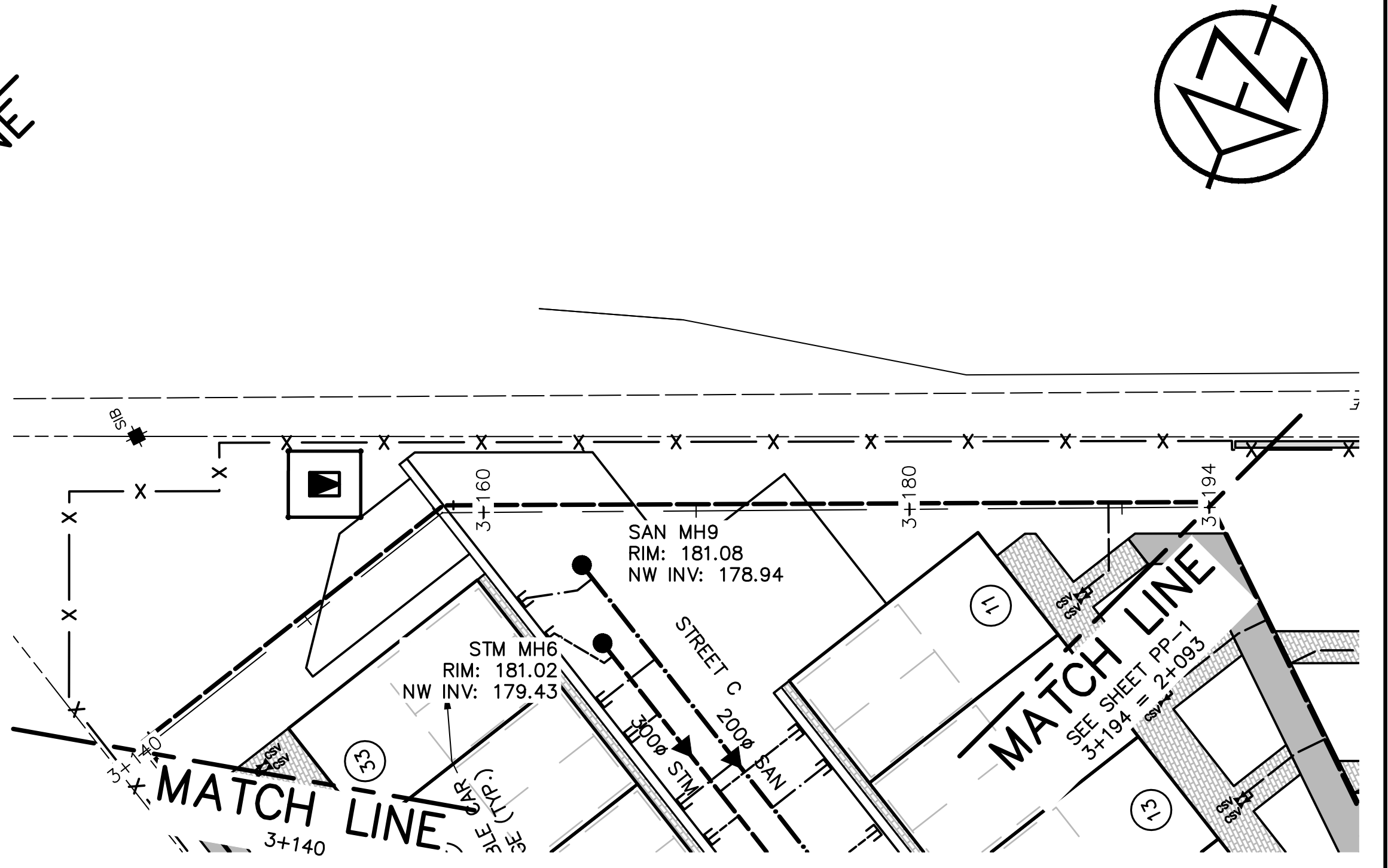
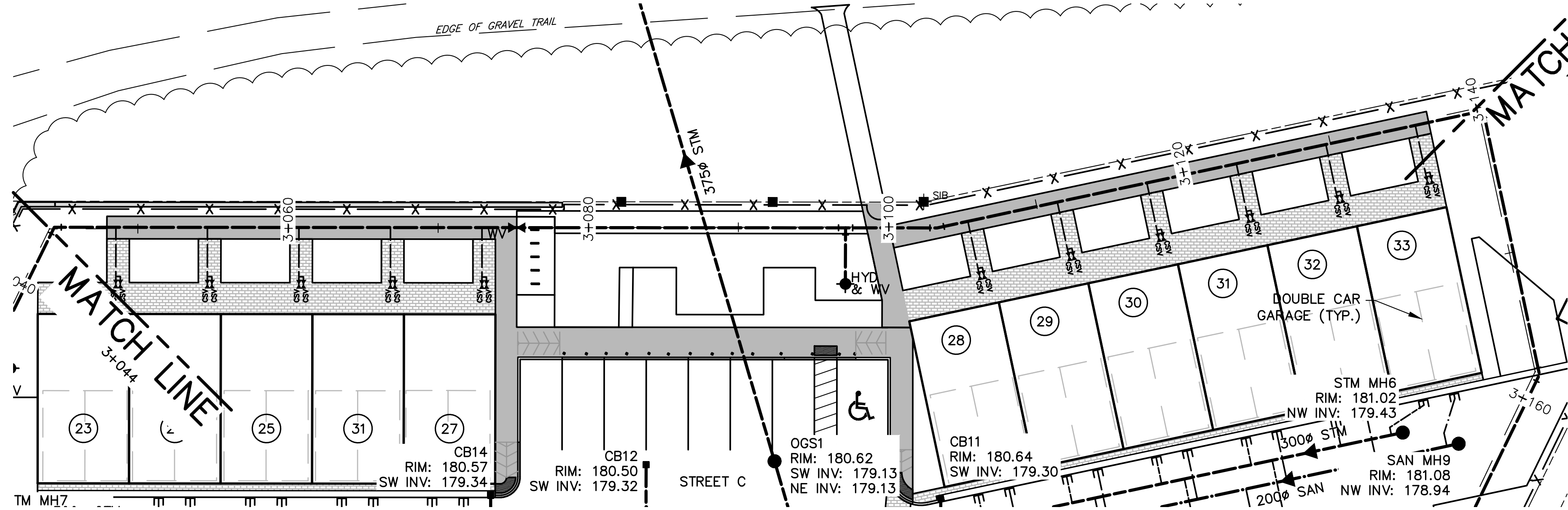
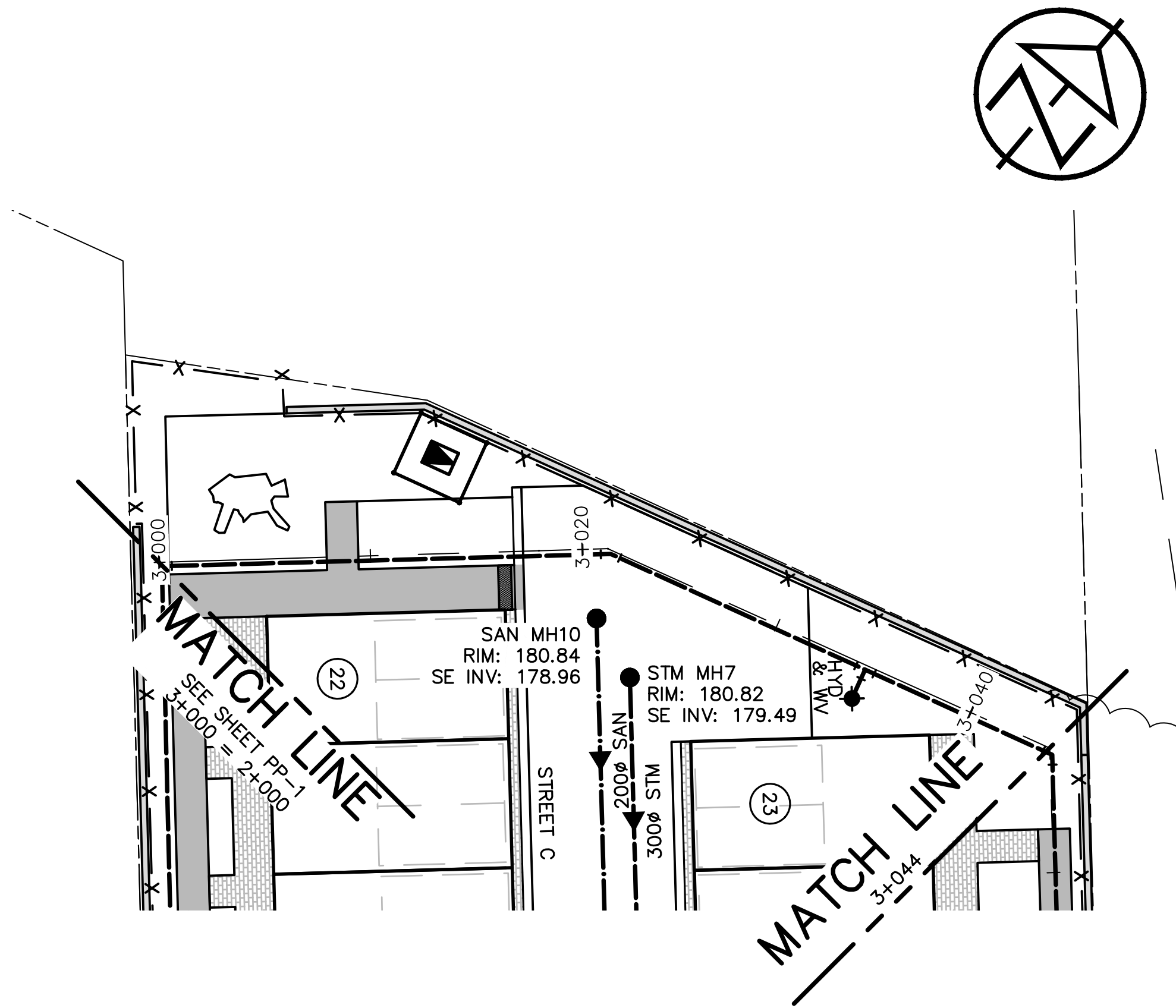
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- SITE PLAN LAYOUT PROVIDED BY ORGANICA STUDIO+ INC. DATED MARCH 4, 2025.

No.	REVISION DESCRIPTION	DATE
1.	3RD SUBMISSION	MAR 2025

ENGINEER STAMP



THE TERRAZZO
TOWN OF COLLINGWOOD

PLAN & PROFILE
STA. 3+000 TO STA. 3+195



DESIGN: MAB	FILE: 121075	DWG:
DRAWN: DMS/KRL	DATE: JAN 2025	
CHECK: KRS	SCALE: 1:300H 1:30V	

PP-2

NOTES

1. GENERAL
- A) ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE TOWN OF COLLINGWOOD STANDARDS AND OPS STANDARDS, WHERE CONFLICT OCCURS, TOWN STANDARDS TO GOVERN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE A CURRENT COPY OF THE TOWN AND OPS STANDARDS.
- B) ALL EXCESS TOPSOIL AND EARTH EXCAVATION TO BE REMOVED AND DISPOSED OF AT AN APPROVED SITE AS DIRECTED BY THE ENGINEER IN ACCORDANCE TO OPSS 180.
- C) THE OWNER'S ENGINEER SHALL PROVIDE BENCHMARK ELEVATIONS FOR THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DETAILED LAYOUT OF THE WORK.
- D) ALL PROPERTY BARS TO BE PRESERVED AND REPLACED BY OLS AT CONTRACTOR'S EXPENSE IF DISTURBED DURING CONSTRUCTION.
- E) THE CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS FOR THE SUPPLY OF TEMPORARY WATER AND POWER.
- F) GENERAL INSTALLATION AND TESTING OF SEWERS, WATER MAIN AND APPURTENANCES TO BE IN ACCORDANCE WITH OPSS 407, 408, 409 (CCTV), 410, 421, AND 441 AND ALL SPECIFICATIONS REFERENCED WITHIN THESE SECTIONS.
- G) DETERMINING TO BE IN ACCORDANCE WITH OPSS-517 AND 518. MAINTAIN ALL TRENCHES IN A DRY CONDITION.
- H) ALL ENGINE DRIVEN PUMPS TO BE ADEQUATELY SILENCED, SUITABLE FOR OPERATION IN A RESIDENTIAL DISTRICT.
- I) 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).
- J) FLEXIBLE PIPE TO OPSPD-802.010 WITH GRANULAR 'A' EMBEDMENT. RIGID PIPE TO OPSPD-802.030 WITH GRANULAR 'A' BEDDING AND COVER MATERIAL.
- K) BACKFILL MATERIAL TO BE SELECT NATIVE MATERIAL AS APPROVED BY THE ENGINEER OR IMPORTED SELECT SUBGRADE MATERIAL TO OPSS 1010. BACKFILL TO BE PLACED IN MAXIMUM 200 mm THICK LIFTS.
- L) DISTURBED AREAS TO BE REINSTATED TO PREVIOUS CONDITION OR BETTER.
- M) REINSTATEMENT OF ALL DISTURBED BOULEVARDS, DITCHES AND LANDSCAPED AREAS TO INCLUDE RE-GRADING, 150 mm TOPSOIL AND SOD TO OPSS 802 AND 803.
- N) THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK AND CO-ORDINATE CONSTRUCTION ACCORDINGLY.
2. ROADS AND PARKING AREAS
- A) SUBGRADE AND BOULEVARD MATERIAL TO BE COMPACTED TO A MINIMUM DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- B) GRANULAR 'A' AND 'B' TO BE COMPACTED TO 100% OF THE MATERIAL'S RESPECTIVE STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- C) SUBGRADE TO BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF SUBBASE MATERIALS (I.e. PROOFROLL) TO CONFIRM STABILITY.
- D) INTERNAL STREET 'A', TO BE 7.20m WIDE (FACE OF CURB TO FACE OF CURB), INTERNAL STREETS 'B' AND 'C', TO BE 7.20m WIDE (CENTER OF CURB TO CENTER OF CURB). VISITOR PARKING AREA TO BE CONSTRUCTED WITH MINIMUM 300mm GRANULAR 'A', TYPE 1, 150mm GRANULAR 'A', 50mm HL8 BASE AND 40mm HL3 SURFACE COURSE ASPHALT. GRANULAR 'B' PLACED ON ROADS OR PARKING BETWEEN OCTOBER 1 AND MAY 1 SHALL BE TYPE 2.
- E) PROVIDE SUBDRAIN UNDER ALL CURBS ON STREET A, B, C AND DAWSON DRIVE. ALL SUBDRAINS TO BE CONSTRUCTED IN ACCORDANCE WITH OPSS 405 AND OPSPD 216.021, UNWRAPPED TRENCH, GRANULAR 'A' EMBEDMENT. SUBDRAIN TO BE PERFORATED, C/W FILTER SOCK, OTHER THAN THE 2.0m SECTION IMMEDIATELY UPSTREAM OF ALL STRUCTURES WHICH SHALL BE NON-PERFORATED.
- F) JOINTS WITH EXISTING ASPHALT TO BE SAW CUT STRAIGHT AND TO INCLUDE A LAP JOINT (300mm WIDE BY 40mm DEEP) UNLESS DIRECTED OTHERWISE BY THE TOWN.
- G) ALL ASPHALT MATERIAL AND PLACEMENT TO BE IN ACCORDANCE WITH OPSS-310.
- H) STOP SIGNS AND STREET SIGNS TO TOWN STANDARDS. SIGNS TO BE INSTALLED AS PER ONTARIO TRAFFIC MANUAL AND TOWN OF COLLINGWOOD STD 401.
- I) PROVIDE STANDARD CURB & GUTTER (OPSD 600.040) ALONG DAWSON DRIVE.
- J) STOP BAR AND CROSSWALK MARKINGS TO ONTARIO TRAFFIC MANUAL - BOOK II.
- K) ALL SIDEWALK TO OPSPD 310.010.

3. SANITARY SEWER

- A) ALL MAINTENANCE HOLES, UNLESS OTHERWISE IDENTIFIED, ARE 1200mm DIAMETER. GRANULAR BACKFILL AROUND MH TO BE GRANULAR 'A'.
- B) STEPS TO OPSPD-405.010
- C) FROST STRAPS TO BE INSTALLED TO 701.100.
- D) FRAMES AND COVERS TO OPSPD-401.01 TYPE 'A', CLOSED COVER.
- E) ALL MAINTENANCE HOLE FRAMES AND GRATES TO BE SET TO BASE ASPHALT ELEVATION AND RAISED BY ADDING FRAME ADJUSTMENT UNITS PRIOR TO PLACING SURFACE COURSE ASPHALT IN ACCORDANCE TO OPSPD 704.010
- F) SERVICE CONNECTIONS TO BE 100mm TERMINATED 2.0m FROM BUILDING WITH PLUG AND MARKED WITH A 38X90 STAKE AT INVERT WITH 0.6m MIN. EXPOSED ABOVE GROUND AND PAINTED GREEN.
- G) SERVICE CONNECTIONS TO OPSPD-1006.010 WITH GRANULAR 'A' EMBEDMENT. RADIUS BENDS AS REQUIRED.

4. STORM SEWER

- A) CATCH BASIN MAINTENANCE HOLES (CBMH) TO OPSPD-701.010, 701.030, 704.010 C/W SUMPS UNLESS NOTED OTHERWISE.
- B) CATCH BASINS TO OPSPD-705.010 AND TO BE COMPLETE WITH 600x600 mm CB SHIELD INSERT (SEE DETAILS).
- C) CATCH BASIN AND CATCH BASIN MAINTENANCE HOLE GRATES TO OPSPD 400.120
- D) PIPE SUPPORT AT CATCH BASIN AND CATCH BASIN MAINTENANCE HOLE TO OPSPD 708.020
- E) SERVICE CONNECTIONS TO BE 125mm TERMINATED 2.0m FROM BUILDING WITH PLUG AND MARKED WITH A 38X90 STAKE AT INVERT WITH 0.6m MIN. EXPOSED ABOVE GROUND AND PAINTED WHITE.
- F) SERVICE CONNECTIONS TO OPSPD-1006.010 WITH GRANULAR 'A' EMBEDMENT. RADIUS BENDS AS REQUIRED.
- G) PROTECTION DURING CONSTRUCTION TO OPSPD-808.010.
- H) CONNECT ROAD SUB-DRAINS TO STRUCTURES TO OPSPD 216.021.
- I) OGS - STORMCEPT EF6 OR APPROVED EQUAL.

5. WATER MAIN

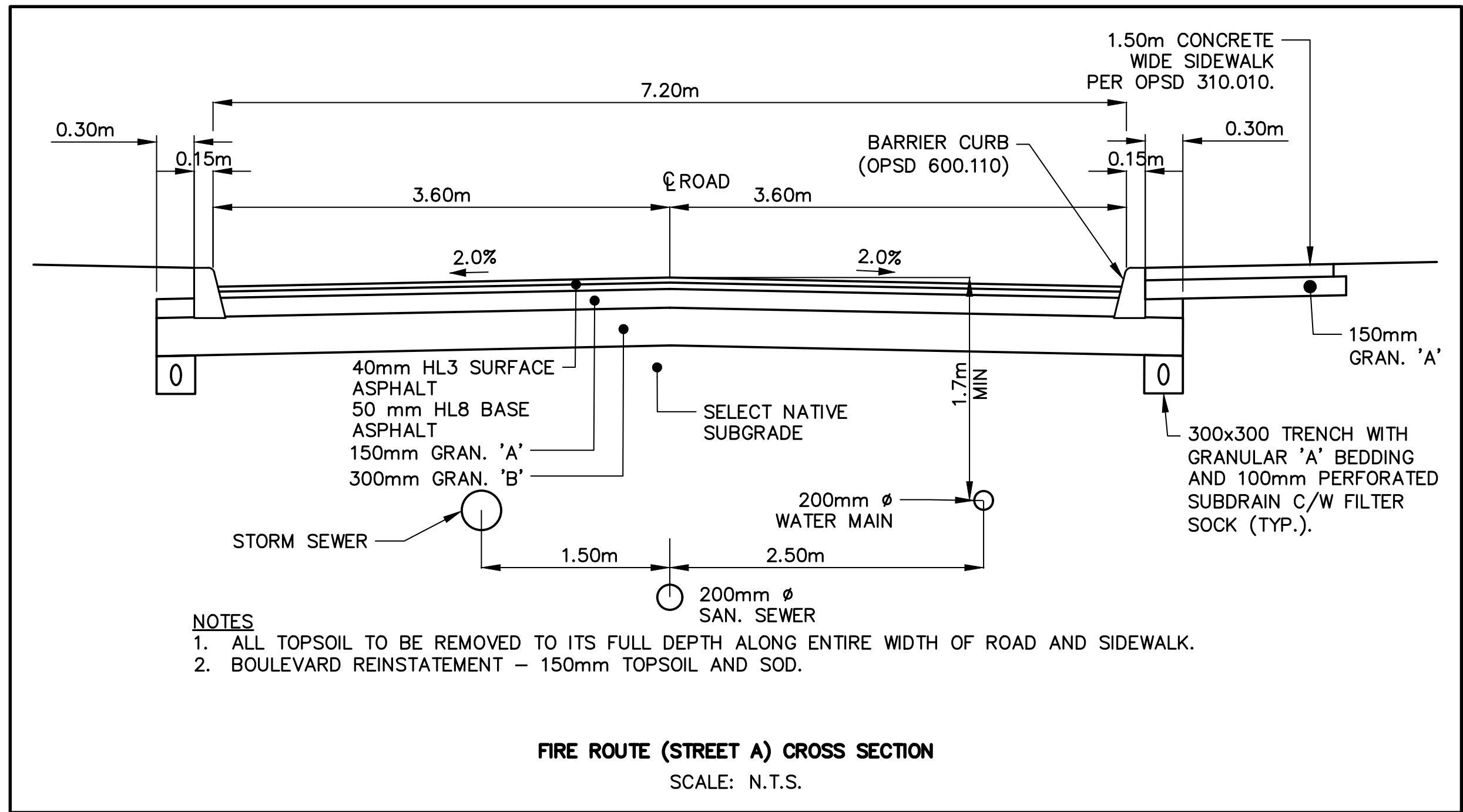
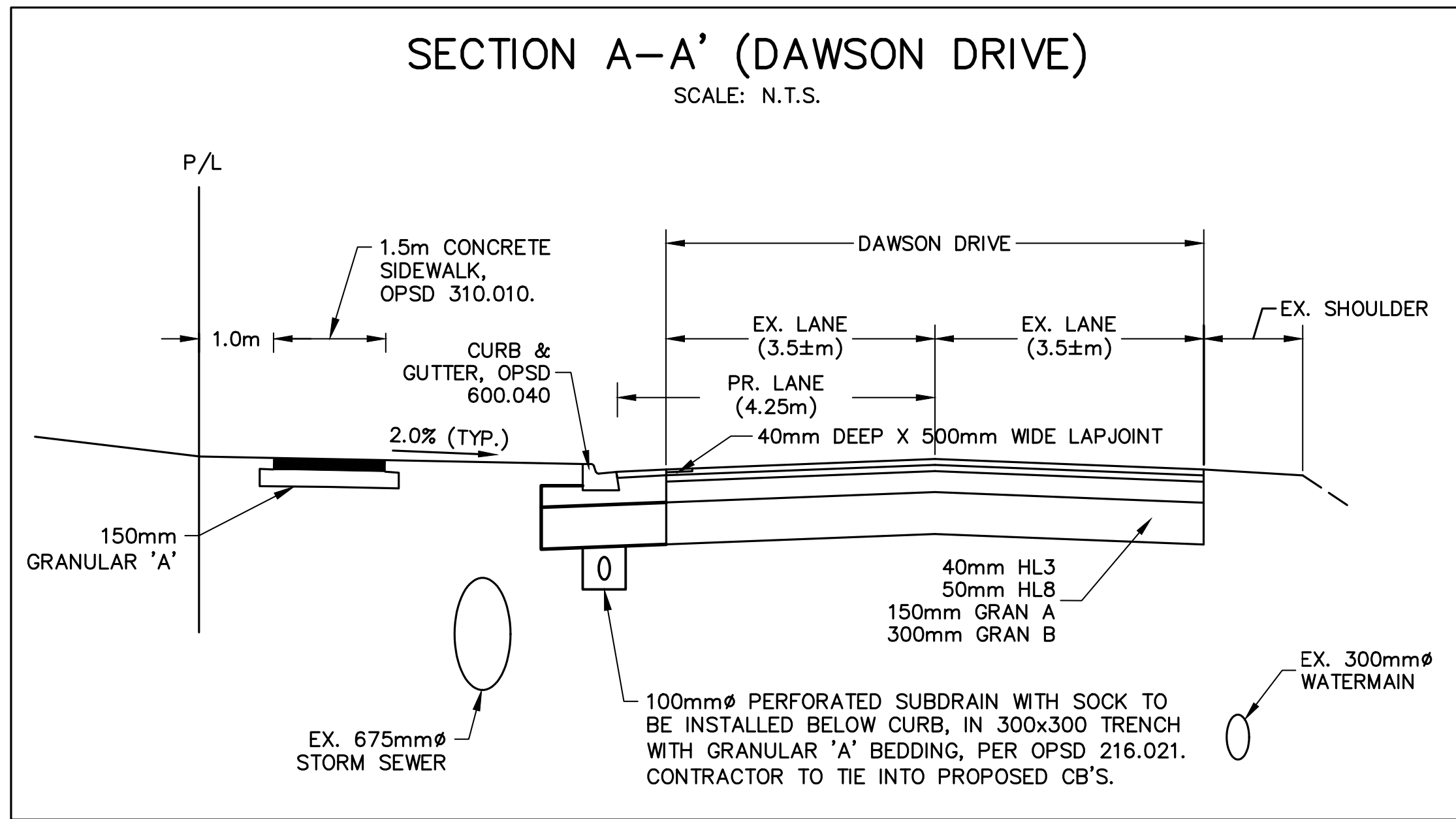
- A) THRUST PROTECTION FOR BENDS AND FITTINGS TO BE RESTRAINER CLAMPS (AS APPROVED) AND THRUST BLOCKS WHERE RESTRAINING CLAMPS CANNOT BE USED (OR AS OTHERWISE SPECIFIED) TO OPSPD-1103.010 AND 1103.020.
- B) CONNECTION TO THE EXISTING WATER MAIN AND ANY TEMPORARY CONNECTION MUST BE UNDERTAKEN BY AN APPROVED CONTRACTOR WITH THE TOWN'S WATER DEPARTMENT AND WITNESSED BY THE TOWN'S WATER DEPARTMENT. THE TAP/SLEEVE AND VALVE CONNECTION IS TO BE COMPLETED BY CLIFFS WELDING AND TAPPING SERVICE ALL AT THE DEVELOPERS COST.
- C) ALL TESTING TO BE COMPLETED (SWABBING, PRESSURE, DISINFECTION, FLUSHING AND BACTERIOLOGICAL) TO THE SATISFACTION OF THE TOWN BEFORE FINAL CONNECTION IS MADE TO THE EXISTING WATER MAIN. A WATER COMMISSIONING PLAN TO BE SUBMITTED TO THE ENGINEER AND TOWN FOR APPROVAL TO THE SATISFACTION OF THE TOWN.
- D) MINIMUM COVER ON WATER MAIN TO BE 1.7m. INSULATE WHERE LESS AS REQUIRED.
- E) CLEARANCE BETWEEN WATER MAIN AND SEWER TO BE A MINIMUM OF 0.5m VERTICAL WHERE WATER MAIN IS BELOW SEWER OR 2.5m CLEAR HORIZONTAL SEPARATION. WHERE WATER MAIN IS ABOVE SEWER, THE MINIMUM SEPARATION TO BE 0.5m.
- F) HYDRANTS TO OPSPD 1105.010, INSTALLED TO TOWN STANDARDS INCLUDING MARKERS.
- G) SERVICE CONNECTIONS TO OPSPD 1104.010 WITH 150mm GRANULAR 'A' BEDDING AND COVER. TERMINATE SERVICE AT CURB STOP AND MARK WITH A 38X90 STAKE AT INVERT WITH 0.6m MIN. EXPOSED ABOVE GROUND AND PAINTED BLUE. TEMPORARY SERVICES TAILS TO BE EXTENDED FROM END OF CURB STOP TO 0.6m ABOVE GRADE. PROVIDE CURB STOP VALVE SLEEVES (SEE DETAIL ON WAT-1) IN ALL WALKWAYS.
- H) FOLLOWING TESTING CONTRACTOR SHALL OPERATE EACH SERVICE TO VERIFY FULL FLOW AND PRESSURE AT CURB STOP TO SATISFACTION OF THE ENGINEER.
- I) ALL EXISTING VALVES AND HYDRANTS TO BE OPERATED BY TOWN STAFF ONLY.
- J) CATHODIC PROTECTION OF ALL WATERMAIN FITTINGS AND APPURTENANCES TO BE PROVIDED AS PER OPSPD 1109.011 AND AS FOLLOWS, 2.3 Kg AT EACH CURB AND MAIN STOP, TEES AND ELBOWS, 5.5 Kg AT EACH HYDRANT BASE AND MAIN LINE VALVE.

6. MATERIALS

- A) SANITARY SEWER - SDR 35 PVC, COLOUR GREEN AND FITTINGS SHALL BE BELL AND SPIGOT WITH RUBBER GASKET.
- B) SANITARY SERVICES - SDR 28 PVC. 100mm WITH TEE CONNECTION TO MAIN.
- C) ALL CHEMICALS AND MATERIALS USED IN THE ALTERATION OR OPERATION OF THE DRINKING WATER SYSTEM THAT COME IN CONTACT WITH WATER WITHIN THE SYSTEM SHALL MEET ALL APPLICABLE STANDARDS SET BY BOTH THE AMERICAN WATER WORKS ASSOCIATION ("AWWA") AND THE AMERICAN NATIONAL STANDARD INSTITUTE ("ANSI") SAFETY CRITERIA STANDARDS NSF/60, NSF/61, AND NSF/372.
- D) WATER MAIN - PVC DR18.
- E) MECHANICAL JOINTS TO AWWA/ANSI C153/A21.53 INCLUDING PROTECTO-CAPS, CAT No. 175P190 OR APPROVED EQUAL.
- ANODES-ZINC-INTERPROVINCIAL CORROSION CONTROL OR BREN TECHNOLOGIES.
- F) PIPE RESTRAINTERS - ROMAC GRIP RING FOR JOINT RESTRAINTS, ROMAC 600 SERIES FOR BELL RESTRAINTS.
- G) WATER MAIN SERVICES - 50mm PE-X BLUE 904 PE PIPING, MAIN STOPS 301 NL-A444 (NO LEAD-LIFE TIME GUARANTEE AGAINST LEAD LEACHATE FROM THE CASTING) BALL STYLE C/W S/S STEM, AWWA THREAD BY COMPRESSION - CAMBRIDGE BRASS. CURB STOPS 203NL-H444 (NO LEAD-LIFETIME GUARANTEE AGAINST LEAD LEACHATE FROM THE CASTING) BALL STYLE WITH DRAIN C/W S/S STEM, COMPRESSION JOINT BY CAMBRIDGE BRASS. SERVICE BOXES NUMBER 7 D-1 CLOW OR MUELLER ¾" TO 1", 24" BLACK RODS STRAIGHT, NUMBER 7 D-2 CLOW OR MUELLER 1 ½" TO 2" 35" BLACK RODS STRAIGHT.
- H) HYDRANTS - CANADA VALVE, CENTURY No. 1 OPEN LEFT WITH 2 CSA HOSE PORTS, ONE 33 B PUMPER PORT AND A BREAK AWAY TYPE 6" MJ. BASE. THE HYDRANT SHALL BE SELF DRAINING AND INCLUDE COLOURED FIRE FLOW DISK (COLOUR TO MATCH AVAILABLE FIRE FLOW RATING) ATTACHED TO THE PORT ARM. DISKS MAY BE PURCHASED FROM THE TOWN WATER DEPARTMENT. COLOUR OF HYDRANTS TO BE CHROME YELLOW. MARKER TO BE FLEXSTAKE, MODEL FHV804, 48" LONG WITH A REFLECTIVE HYDRANT GRAPHIC ON BOTH SIDES AT THE TOP OF THE MARKER. VALVE TO BE INSTALLED MINIMUM 0.9m FROM CENTER OF VALVE TO CENTER OF HYDRANT. TRACER WIRE SHALL BE ATTACHED TO THE OUTSIDE OF THE VALVE BOX AND WIRE BROUGHT INTO THE VALVE BOX UNDER CAP.
- I) VALVES - RESILIENT SEATED WITH MECHANICAL JOINT, OPEN LEFT CLOW OR MUELLER WITH 5 SL-48 SLIDING VALVE BOX AND CAP PAINTED BLUE.
- J) TRACER WIRE - 12 AWG TW#1, CONNECTORS TO BE APPROVED BY ENGINEER.
- K) STORM SEWER - PVC DR 35, SMOOTH WALL HDPE (BOSS 2000), CONCRETE OR APPROVED EQUAL (BELL AND SPIGOT WITH MIN. PIPE STIFFNESS = 320 KPA).
- L) STORM SEWER - SDR 28 PVC, COLOUR WHITE AND FITTINGS SHALL BE BELL AND SPIGOT WITH RUBBER GASKET.
- M) CULVERTS - GALVANIZED CORRUGATED PIPE WITH MIN. WALL THICKNESS OF 2.0mm OR SMOOTH WALL HDPE (BOSS 2000) WITH MIN. PIPE STIFFNESS TO 320 KPA. END PROTECTION TO OPSPD 810.010. FROST TREATMENT FOR ENTRANCE CULVERT TO OPSPD 803.030.
- N) PERFORATED SUB DRAIN - 100mm DIAMETER, BIG 'O' WITH GEOTEXTILE FILTER SOCK.
- O) FILTER FABRIC - TERRAFIX 270R OR APPROVED EQUAL.
- P) ALL SPECIFIED AGGREGATES TO OPSPD 1010.
- Q) TRAFFIC SIGNS TO TOWN STANDARDS.
- R) HEADWALL - PRO-ECO-LITE 1.5 SERIES 45 DEGREE FIXED SPIGOT HEADWALL STRUCTURE, C/W GRATE OR APPROVED EQUAL.
- S) ALL MATERIALS TO COMPLY WITH CSA, OPSS AND TOWN STANDARDS.

7. CONCRETE RETAINING WALL & FENCING

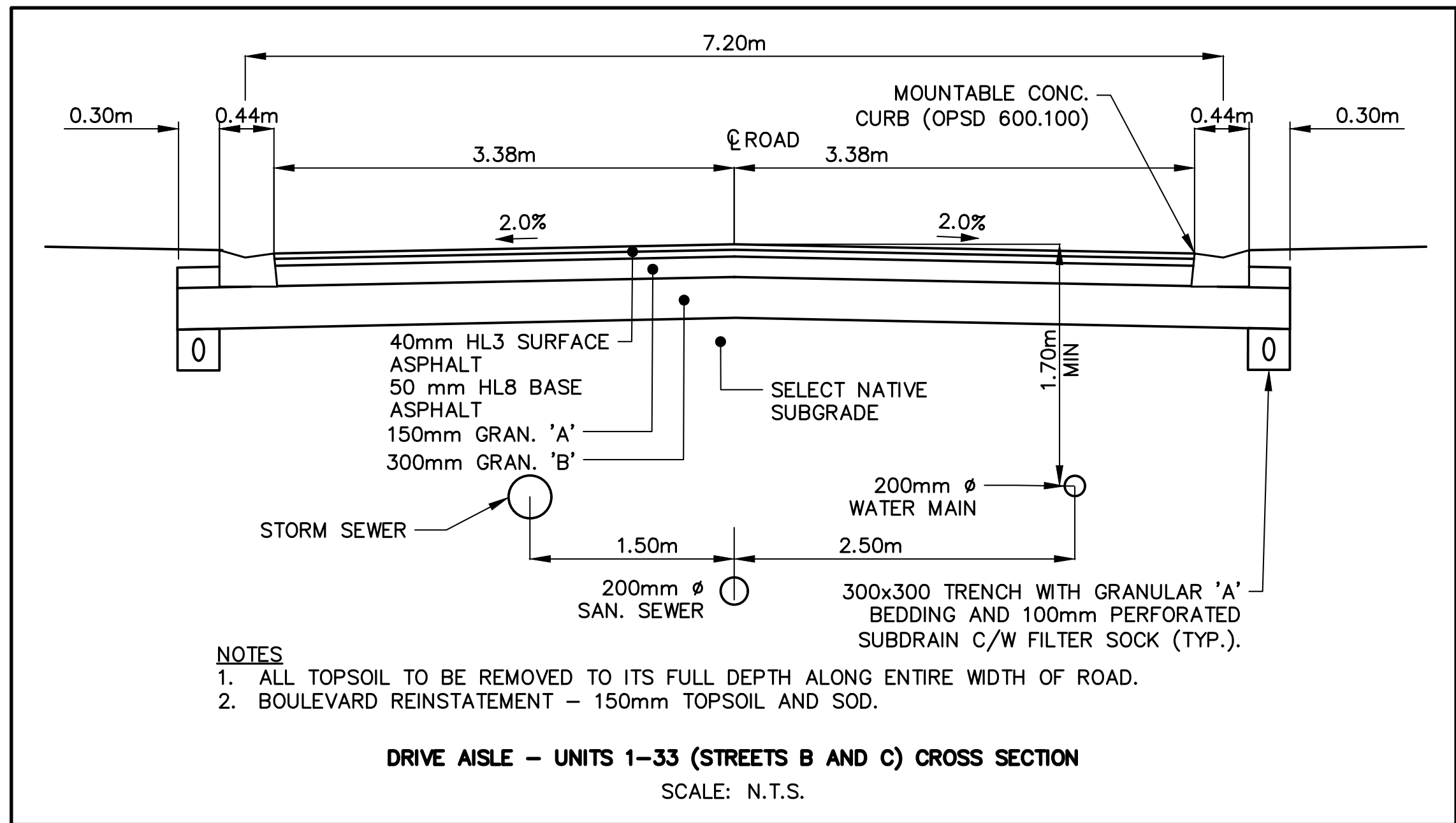
- A) CONSTRUCT RETAINING WALLS IN ACCORDANCE TO ENGINEERING DRAWINGS BY A-D ENGINEERING GROUP LTD., STAMPED JANUARY 16, 2025 - REV.1 (JAN 18, 2025).
- B) CONSTRUCT FENCING IN ACCORDANCE TO THE TOWN OF COLLINGWOOD DRAWING STD 502 AS SHOWN ON LANDSCAPE DRAWING (LD-02) BY MSLA LANDSCAPE ARCHITECTS.



- NOTES
1. ALL TOPSOIL TO BE REMOVED TO ITS FULL DEPTH ALONG ENTIRE WIDTH OF ROAD AND SIDEWALK.
 2. BOULEVARD REINSTATEMENT - 150mm TOPSOIL AND SOD.

FIRE ROUTE (STREET A) CROSS SECTION

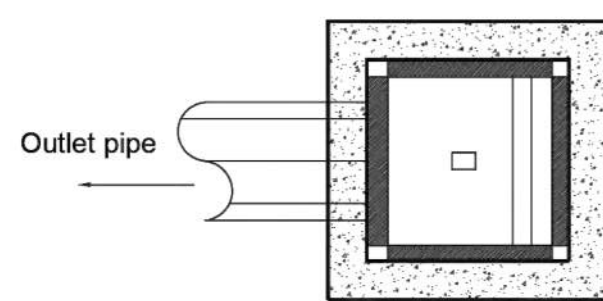
SCALE: N.T.S.



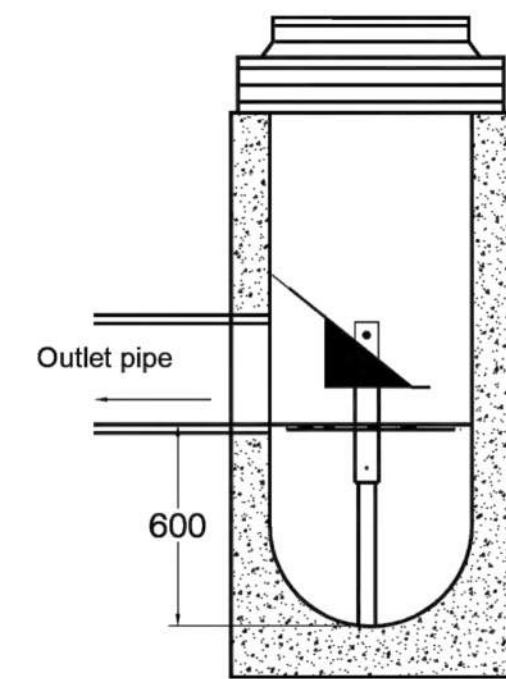
- NOTES
1. ALL TOPSOIL TO BE REMOVED TO ITS FULL DEPTH ALONG ENTIRE WIDTH OF ROAD.
 2. BOULEVARD REINSTATEMENT - 150mm TOPSOIL AND SOD.

Notes

1. CB Shield to be installed in non frozen conditions.
2. The frame and cover should be well aligned with the catchbasin for proper installation
3. The sump must be clean before installation
4. The grate is at the same elevation as pipe invert.
5. Pipes must be cut flush with inside walls



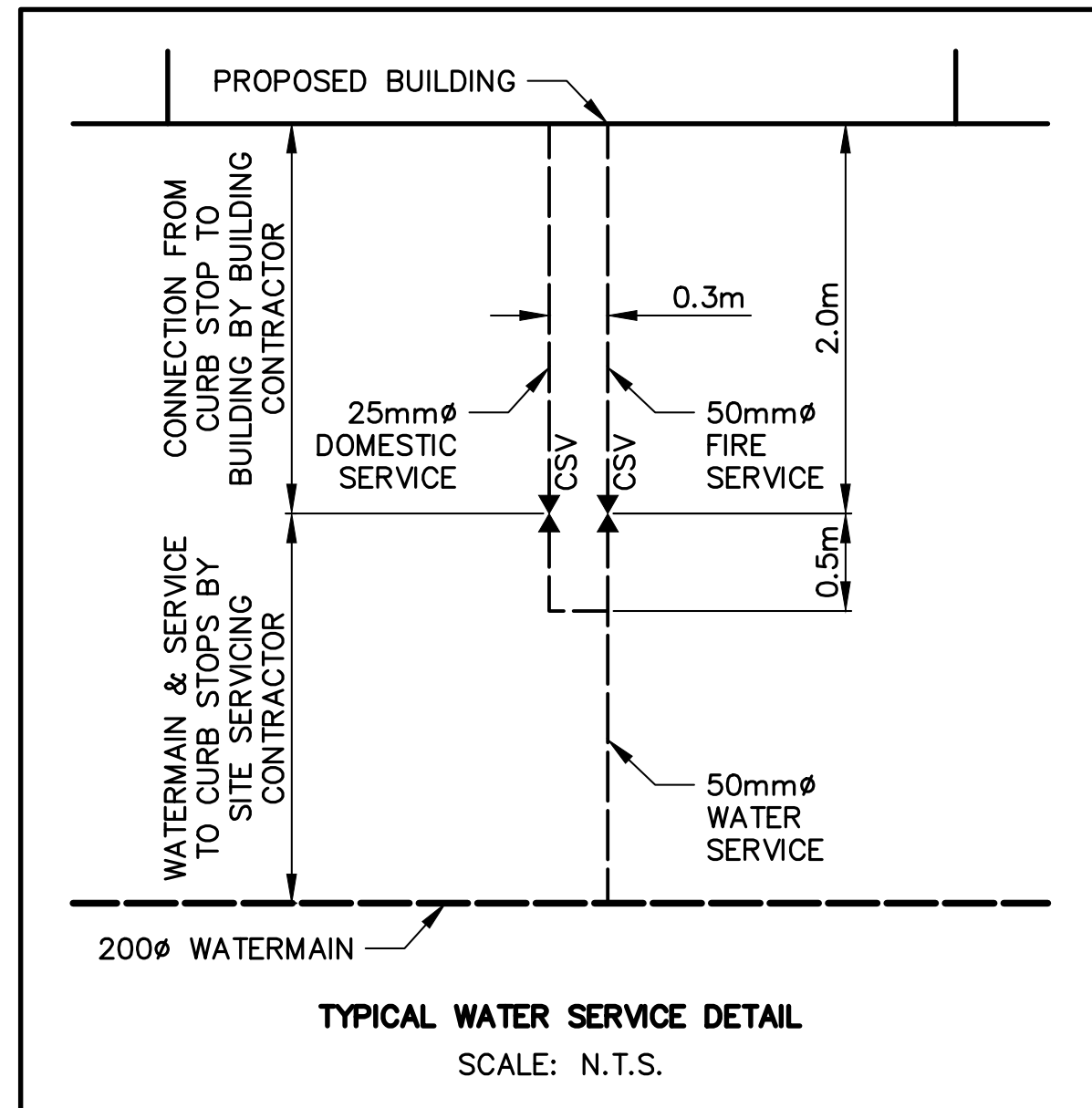
Top view



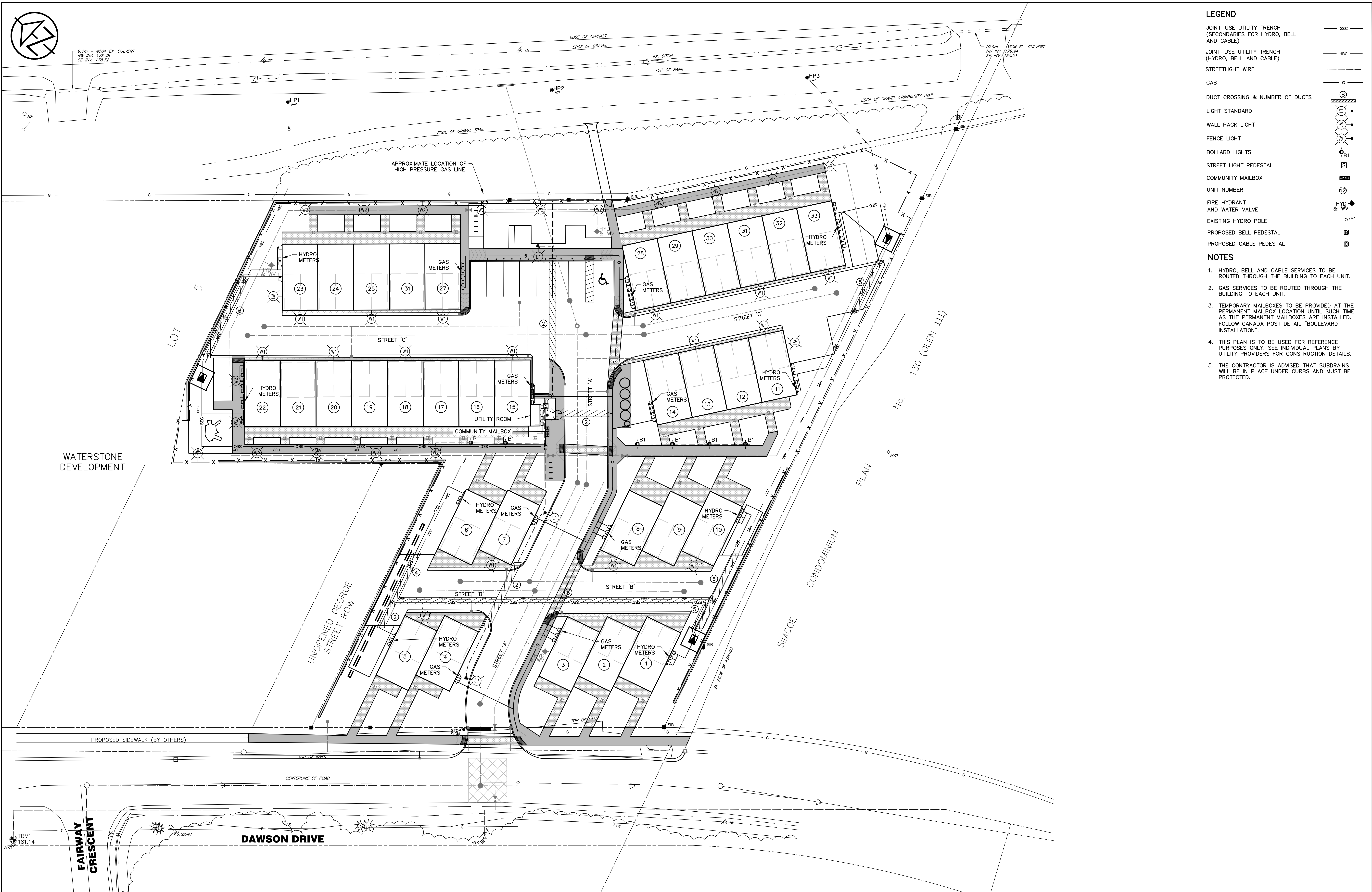
Profile view



600 x 600 CB
CB Shield (600mm Sump)



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LEGEND

- JOINT-USE UTILITY TRENCH
(SECONDARIES FOR HYDRO, BELL
AND CABLE) — SEC —
- JOINT-USE UTILITY TRENCH
(HYDRO, BELL AND CABLE) — HBC —
- STREETLIGHT WIRE ———
- GAS — G —
- DUCT CROSSING & NUMBER OF DUCTS — (8) —
- LIGHT STANDARD — (L) —
- WALL PACK LIGHT — (W) —
- FENCE LIGHT — (F) —
- BOLLARD LIGHTS — (B) —
- STREET LIGHT PEDESTAL — (S) —
- COMMUNITY MAILBOX — (M) —
- UNIT NUMBER — (12) —
- FIRE HYDRANT
AND WATER VALVE — HYD & WV —
- EXISTING HYDRO POLE — O HP —
- PROPOSED BELL PEDESTAL — (B) —
- PROPOSED CABLE PEDESTAL — (C) —

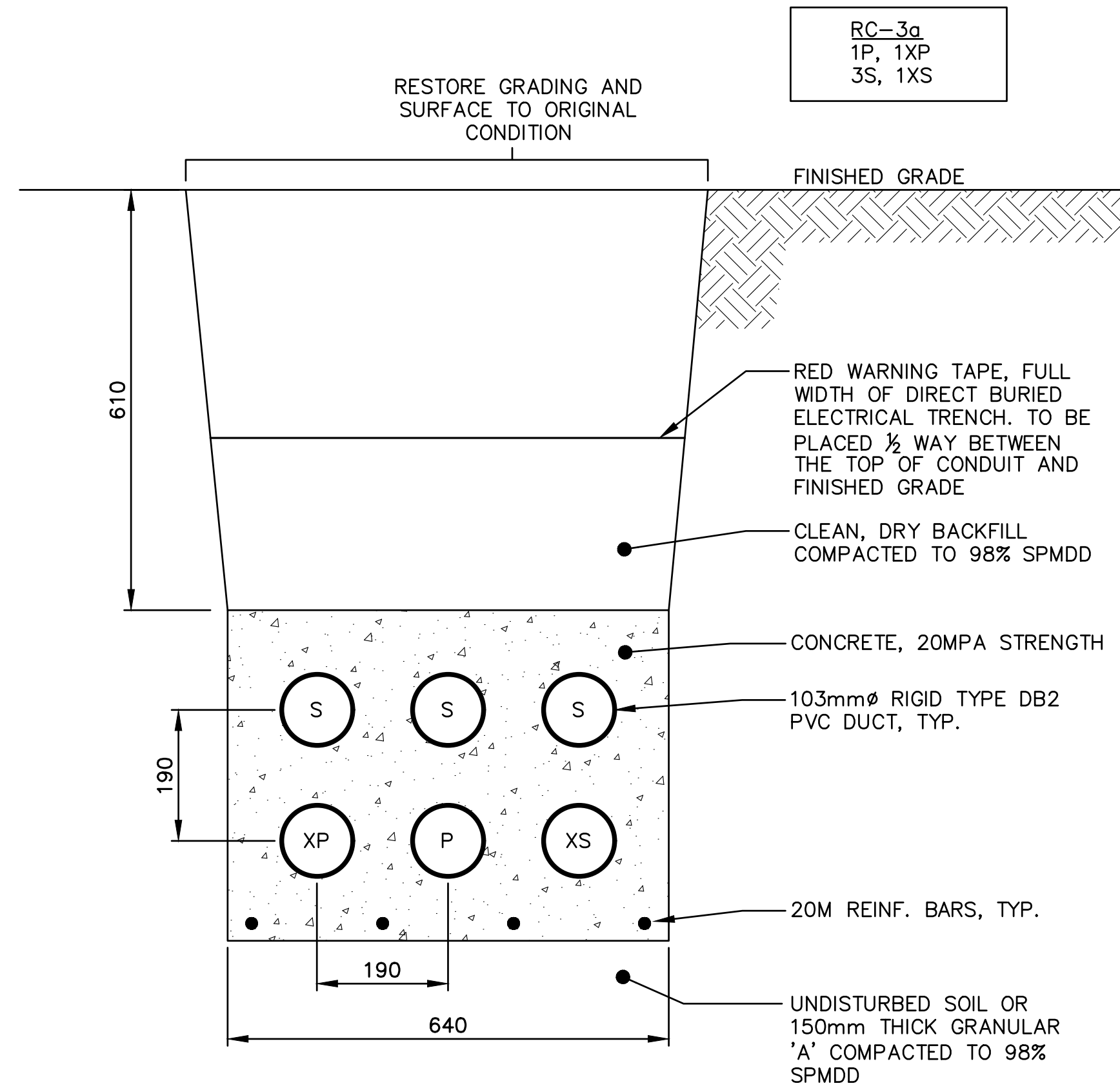
NOTES

- HYDRO, BELL AND CABLE SERVICES TO BE ROUTED THROUGH THE BUILDING TO EACH UNIT.
- GAS SERVICES TO BE ROUTED THROUGH THE BUILDING TO EACH UNIT.
- TEMPORARY MAILBOXES TO BE PROVIDED AT THE PERMANENT MAILBOX LOCATION UNTIL SUCH TIME AS THE PERMANENT MAILBOXES ARE INSTALLED. FOLLOW CANADA POST DETAIL "BOULEVARD INSTALLATION".
- THIS PLAN IS TO BE USED FOR REFERENCE PURPOSES ONLY. SEE INDIVIDUAL PLANS BY UTILITY PROVIDERS FOR CONSTRUCTION DETAILS.
- THE CONTRACTOR IS ADVISED THAT SUBDRAINS WILL BE IN PLACE UNDER CURBS AND MUST BE PROTECTED.

DISCLAIMER AND COPYRIGHT CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED. TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.	BENCHMARKS TBM1 — ELEVATION 181.14m TOP NUT OF FIRE HYDRANT LOCATED AT NORTHWEST CORNER OF DAWSON DRIVE AND FAIRWAY CRESCENT SOUTH INTERSECTION.	NOTES 1. LEGAL AND TOPOGRAPHICAL INFORMATION PROVIDED BY ZUBEK, EMO, PATTEN & THOMSEN LIMITED, RECEIVED APRIL 9, 2021, JOB NO. 86-39-S. 2. SITE PLAN LAYOUT PROVIDED BY ORGANICA STUDIO+ INC. DATED MARCH 4, 2025.	No. 1.	REVISION DESCRIPTION 1ST SUBMISSION	DATE OCT 2022	ENGINEER STAMP 	THE TERRAZZO TOWN OF COLLINGWOOD				
			2.	2ND SUBMISSION	JUN 2024						
			3.	3RD SUBMISSION	MAR 2025		COMPOSITE UTILITY PLAN		DESIGN: AVN/MAB	FILE: 121075	DWG: CUP-1
									DRAWN: AVN/KRL	DATE: DEC 2021	
						CHECK: MAB/KRS	SCALE: 1:300				

NOTES

- EXTERNAL WORK: EXISTING 60' HYDRO POLE HP#1 ALONG HIGHWAY 26 WITH NEW WHITE PHASE RISER TO UNDERGROUND DUCTBANK. CONTRACTOR TO PROVIDE 15m OF CABLE AT BASE OF POLE, INCLUDING CONDUIT AND CABLE GUARD FOR CONNECTION BY EPCOR. TERMINATION OF PRIMARY CABLE BY EPCOR.
- EXTERNAL WORK: PROPOSED 60' HYDRO POLE HP#2 ALONG HIGHWAY 26 WITH RELOCATED TRANSFORMER FROM EXISTING HP#3
- EXTERNAL WORK: PROPOSED 60' HYDRO POLE HP#3 ALONG HIGHWAY 26 WITH WHITE PHASE RISER TO UNDERGROUND DUCTBANK. CONTRACTOR TO PROVIDE 15m OF CABLE AT BASE OF POLE, INCLUDING CONDUIT AND CABLE GUARD FOR CONNECTION BY EPCOR. TERMINATION OF PRIMARY CABLE BY EPCOR.

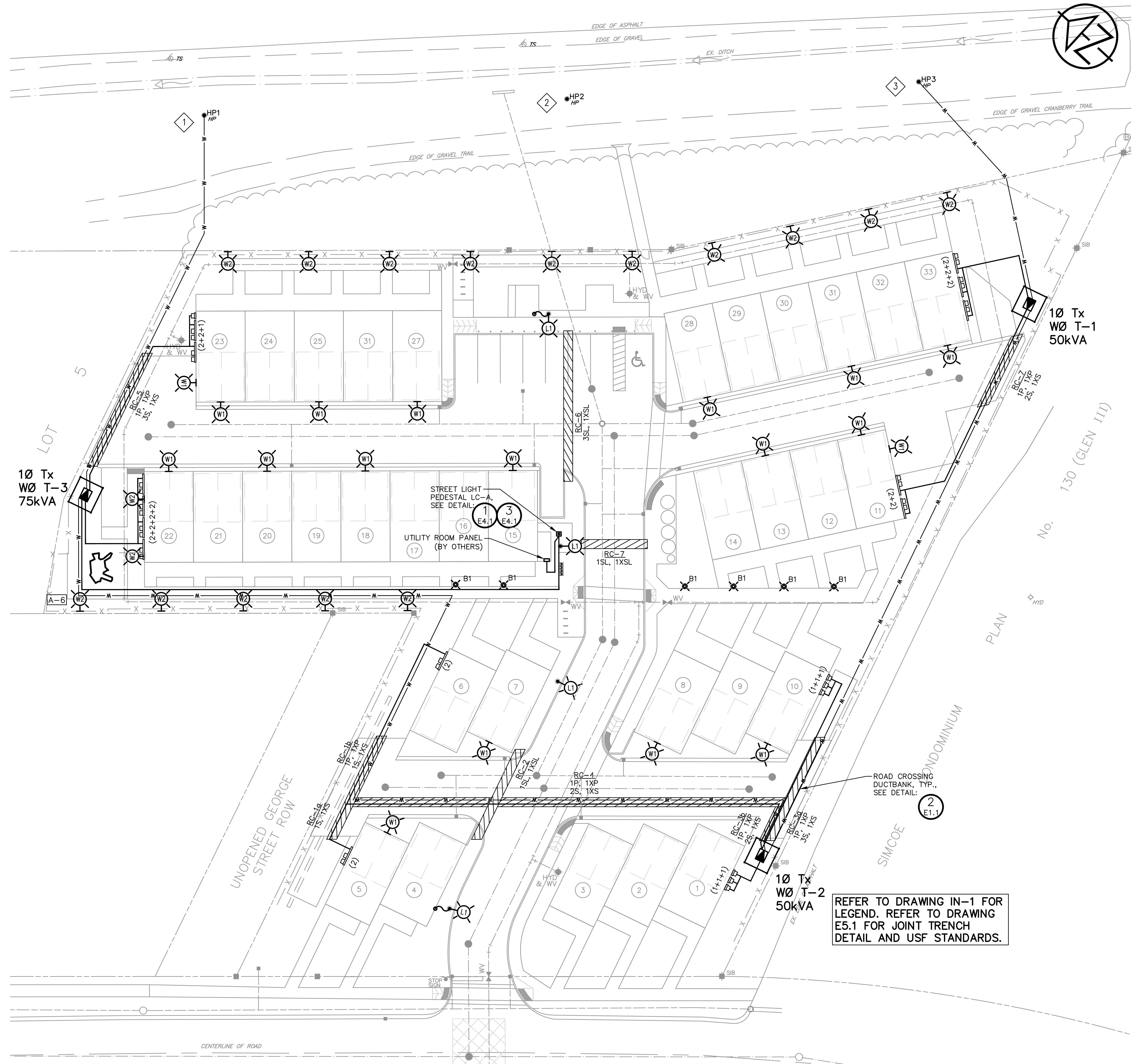


2 E1.1 TYPICAL CONCRETE ENCASED ROAD CROSSING DETAILS

- NTS, DIMENSIONS SHOWN IN MILLIMETRES (mm)
- DUCTBANK NOTES:
 - PROVIDE FISH ROPE IN EACH EMPTY DUCT
 - INSTALL SPACERS EVERY 1524mm TO ASSEMBLE DUCTBANK. OFFSET OR STAGGER SPACERS.
 - COMPLY WITH COLLUS-POWERSTREAM USF STANDARDS 12-403 AND 12-404
 - REFER TO CONTRACT DRAWINGS FOR EXACT QUANTITIES OF DUCTS

1 E1.1 ELECTRICAL SITE PLAN – POWER LAYOUT

- SCALE 1:300



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BENCHMARKS

TBM1 – ELEVATION 181.14m
TOP NUT OF FIRE HYDRANT LOCATED AT NORTHWEST CORNER OF DAWSON DRIVE AND FAIRWAY CRESCENT SOUTH INTERSECTION.

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No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	1ST SUBMISSION	SEPT 2022	
2.	2ND SUBMISSION	JUN 2024	
3.	3RD SUBMISSION	MAR 2025	

THE TERRAZZO TOWN OF COLLINGWOOD

ELECTRICAL SITE PLAN

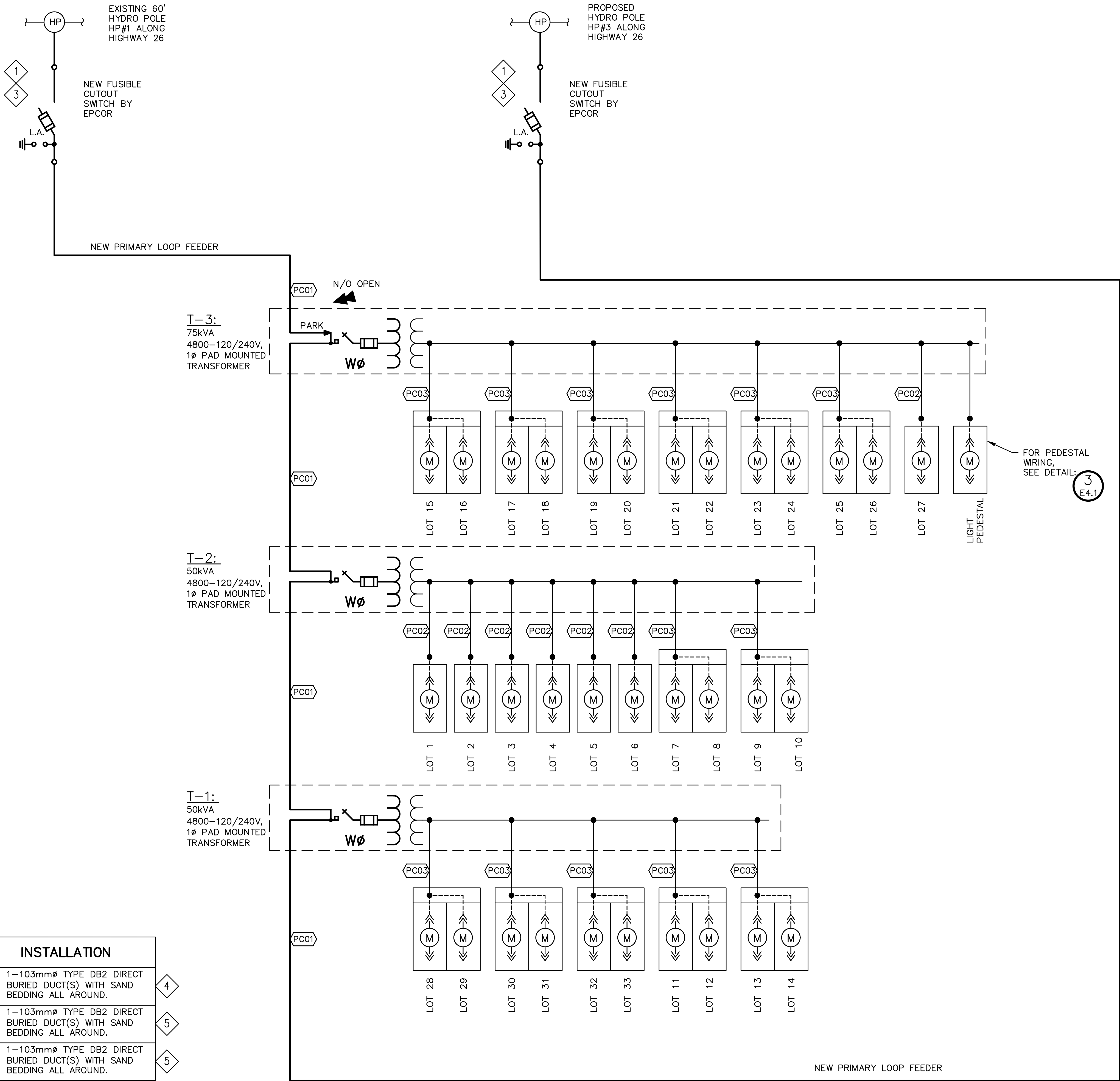


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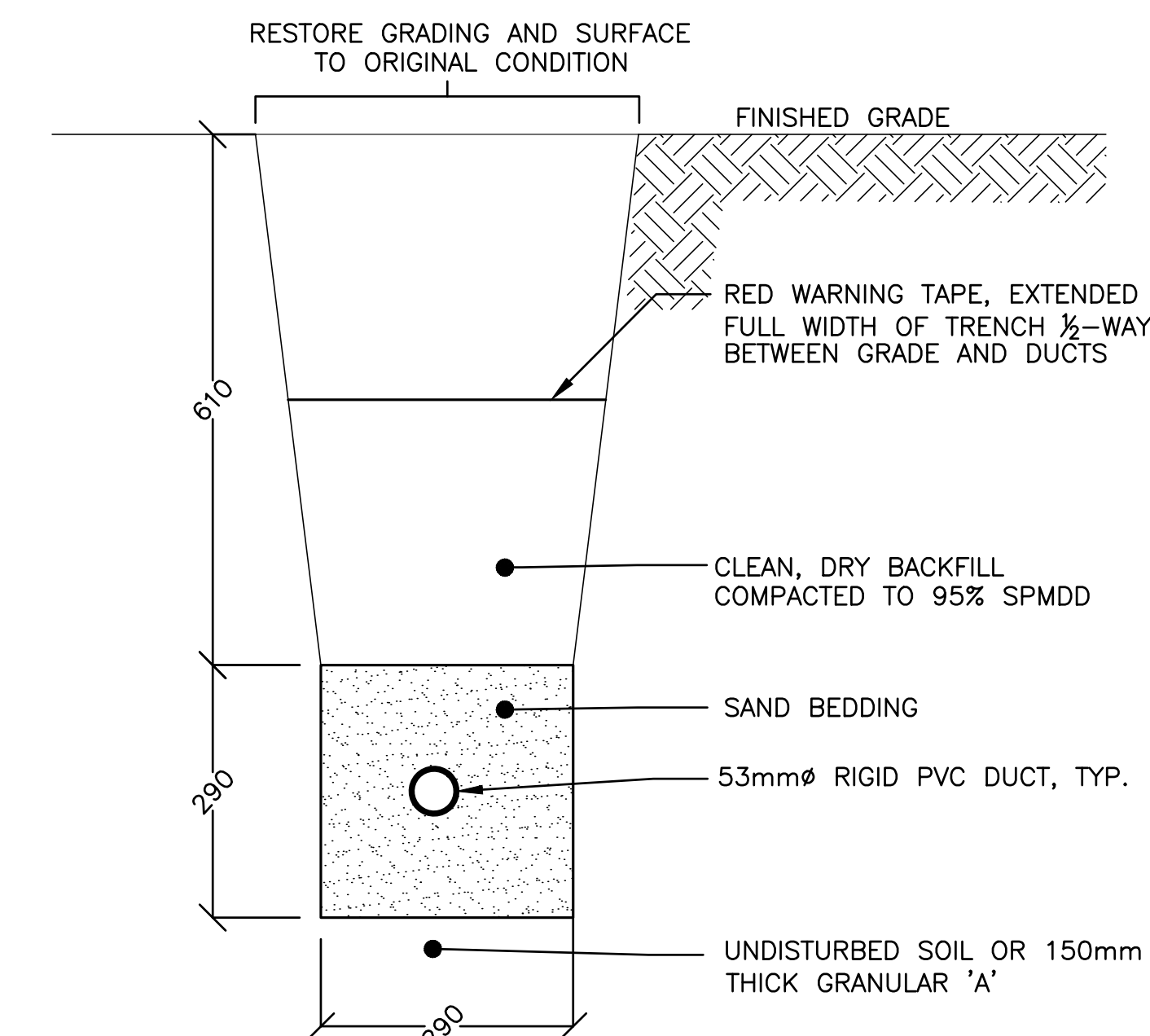
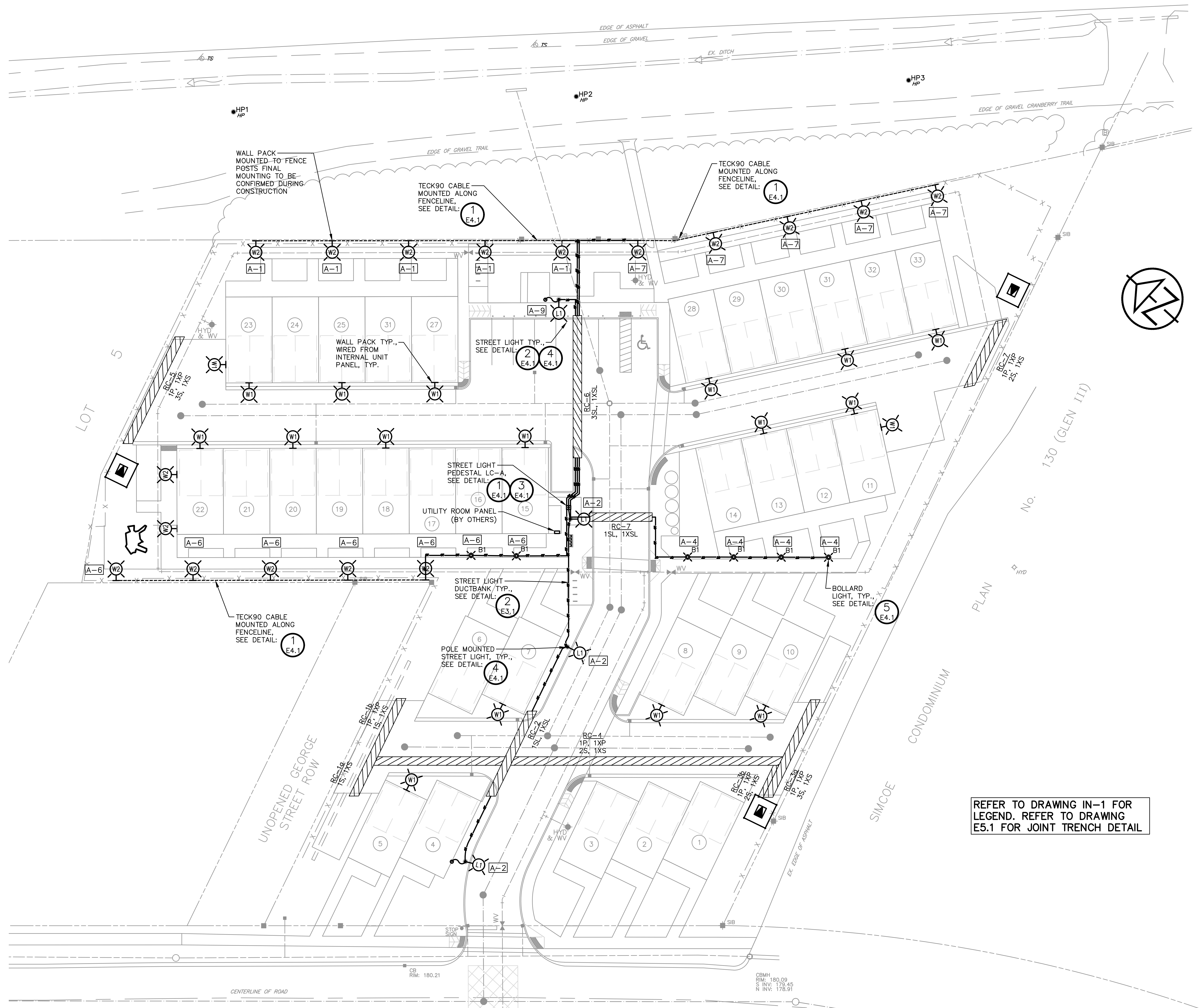
- SINGLE LINE DIAGRAM NOTES:**
- 1 ALL PRIMARY AND SECONDARY CABLE TERMINATIONS ON HYDRO POLES AND INSIDE EACH TRANSFORMER WILL BE PERFORMED BY EPCOR INC.
 - 2 ELECTRICAL SERVICE TO EACH UNIT: 200AMP MAX., 120/240VAC, 1-PHASE, 60Hz.
 - 3 ALL PRIMARY AND SECONDARY DISTRIBUTION EQUIPMENT AND CABLES TO BE OWNED AND OPERATED BY EPCOR INC.
 - 4 PRIMARY LOOP FEEDER CABLES TO INCLUDE CONCRETE ENCASING AND 103mmØ TYPE DB2 DUCT FOR EACH CABLE AT ALL ROAD CROSSINGS.
 - 5 TERMINATE SECONDARY ELECTRICAL SERVICE AT METER BASE. CONTRACTOR TO INSTALL CABLE AND CONDUIT TO METER BASE, AND MAKE ELECTRICAL CONNECTION. ELECTRICAL WORK ON BUILDING INTERIOR BY OTHERS.

PRIMARY CABLE DESCRIPTION	INSTALLATION
PC01 PRIMARY LOOP FEEDER CABLE: 1C#1/DAWG. Cu, 15kV TR-XLPE, LLDPE, 100% CN IN 103mmØ PVC TYPE DB2 CONDUIT	1-103mmØ TYPE DB2 DIRECT BURIED DUCT(S) WITH SAND BEDDING ALL AROUND.
PC02 SECONDARY SERVICE CABLES: 3C#250MCM, AL, USE190. INSTALL CABLES IN 103mmØ RIGID PVC DB2 DUCT.	1-103mmØ TYPE DB2 DIRECT BURIED DUCT(S) WITH SAND BEDDING ALL AROUND.
PC03 SECONDARY SERVICE CABLES: 3C#500MCM, AL, USE190. INSTALL CABLES IN 103mmØ RIGID PVC DB2 DUCT.	1-103mmØ TYPE DB2 DIRECT BURIED DUCT(S) WITH SAND BEDDING ALL AROUND.

1 SINGLE LINE DIAGRAM
E2.1 • NTS



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			2.	3RD SUBMISSION	MAR 2025						
							DESIGN: SRT	FILE: 121075	DWG:		
							DRAWN: KRL	DATE: SEPT. 2022	E2.1		
							CHECK: SRT	SCALE: 1:300			



2 TYPICAL LIGHTING DUCTBANK
E3.1 - NTS

1 STREETLIGHTING LAYOUT
E3.1 • SCALE 1:300

DISCLAIMER AND COPYRIGHT

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BENCHMARKS

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ENGINEER STAMP



THE TERRAZZO TOWN OF COLLINGWOOD

STREETLIGHTING LAYOUT



DESIGN: PP/SRT	FILE: 121075	DWG: E-3.1
DRAWN: PP/KRL	DATE: SEPT. 2022	
CHECK: SRT	SCALE: AS SHOWN	



REFER TO DRAWING E4.2
FOR LUMINAIRE SCHEDULE
AND PHOTOMETRIC
CALCULATION SUMMARY

1
E3.2 PHOTOMETRIC LAYOUT (ILLUMINATION LEVELS SHOWN IN LUX)
• SCALE 1:300

DISCLAIMER AND COPYRIGHT

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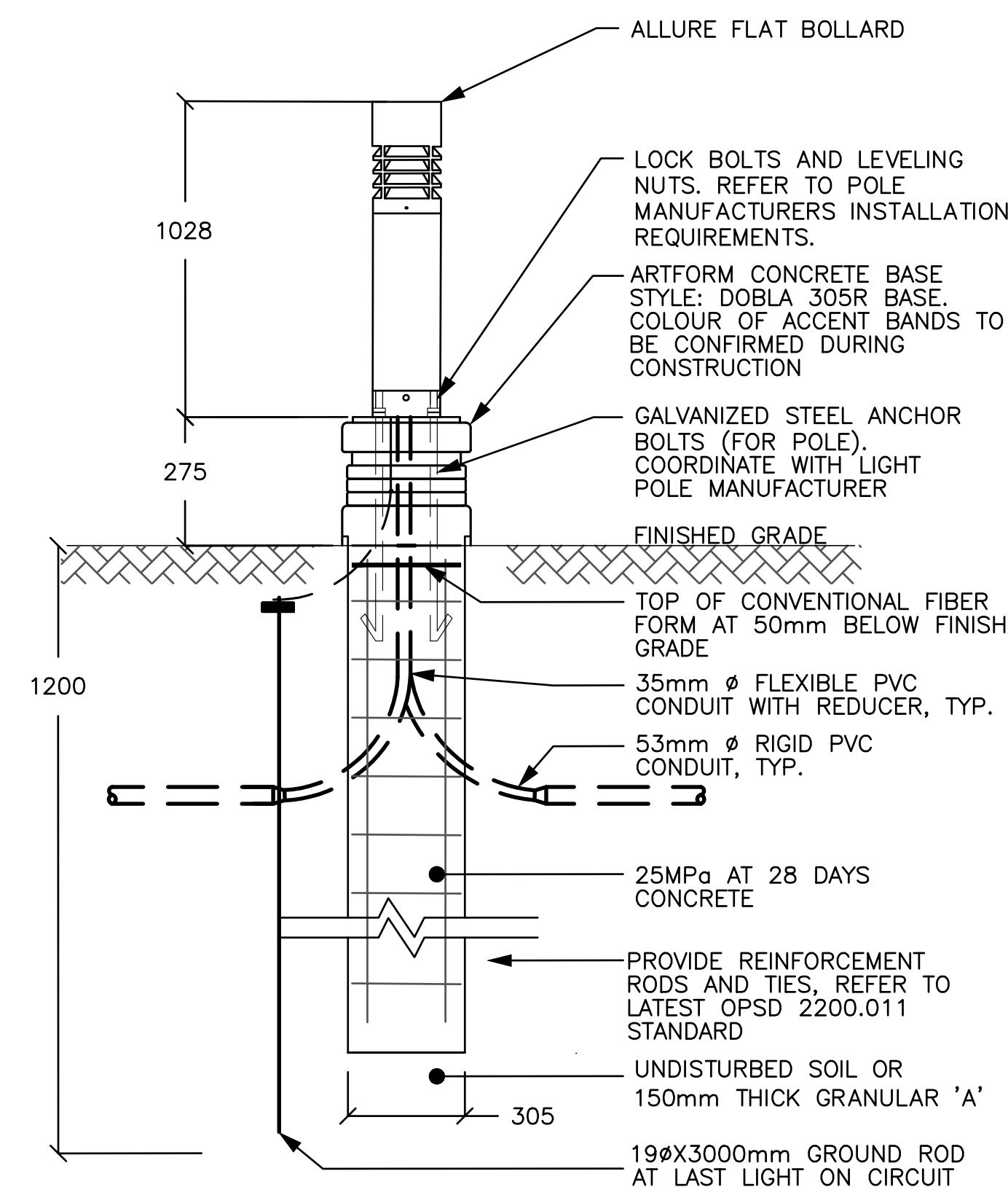
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THE TERRAZZO
TOWN OF COLLINGWOOD

PHOTOMETRIC LAYOUT

TATHAM
ENGINEERING

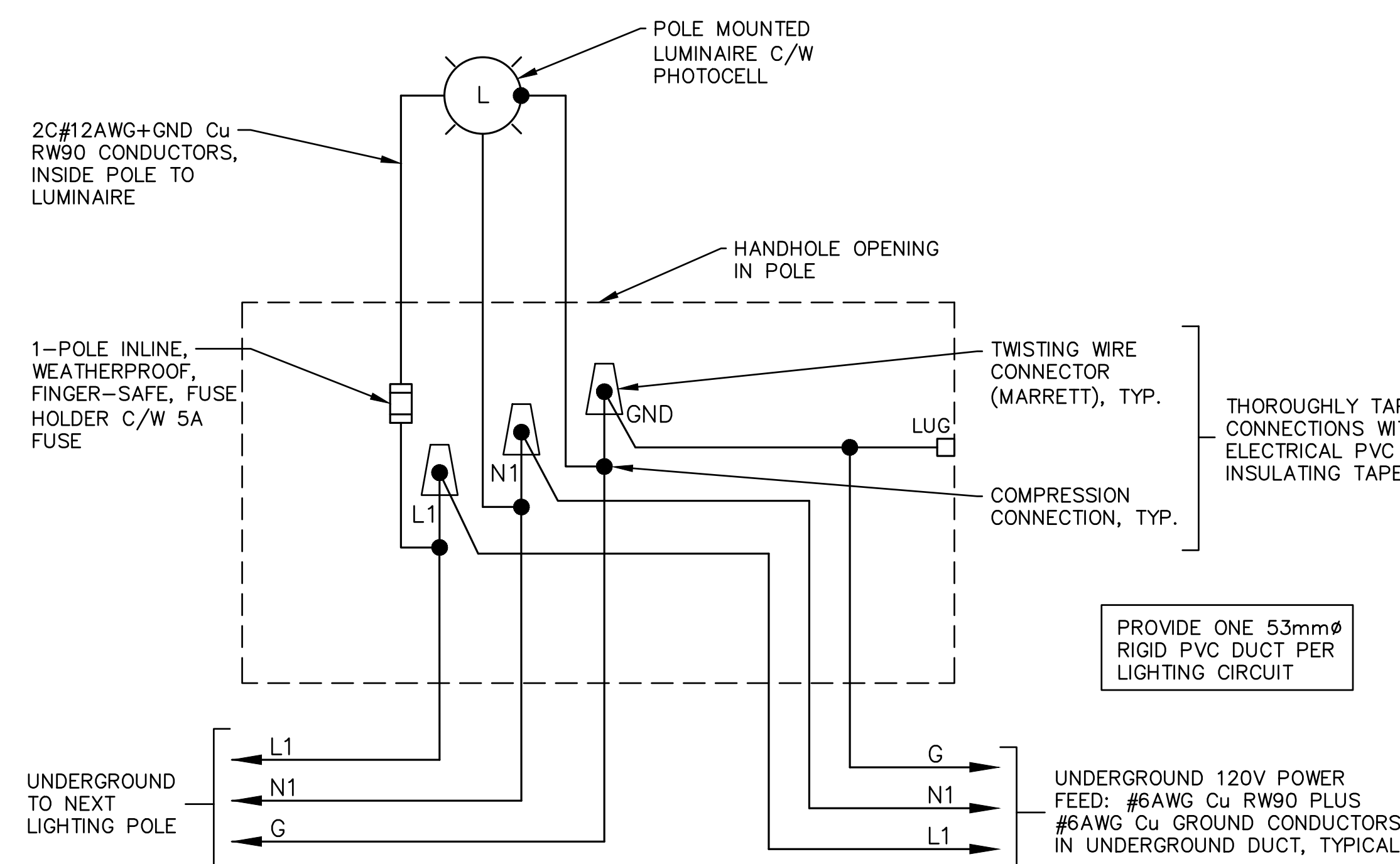
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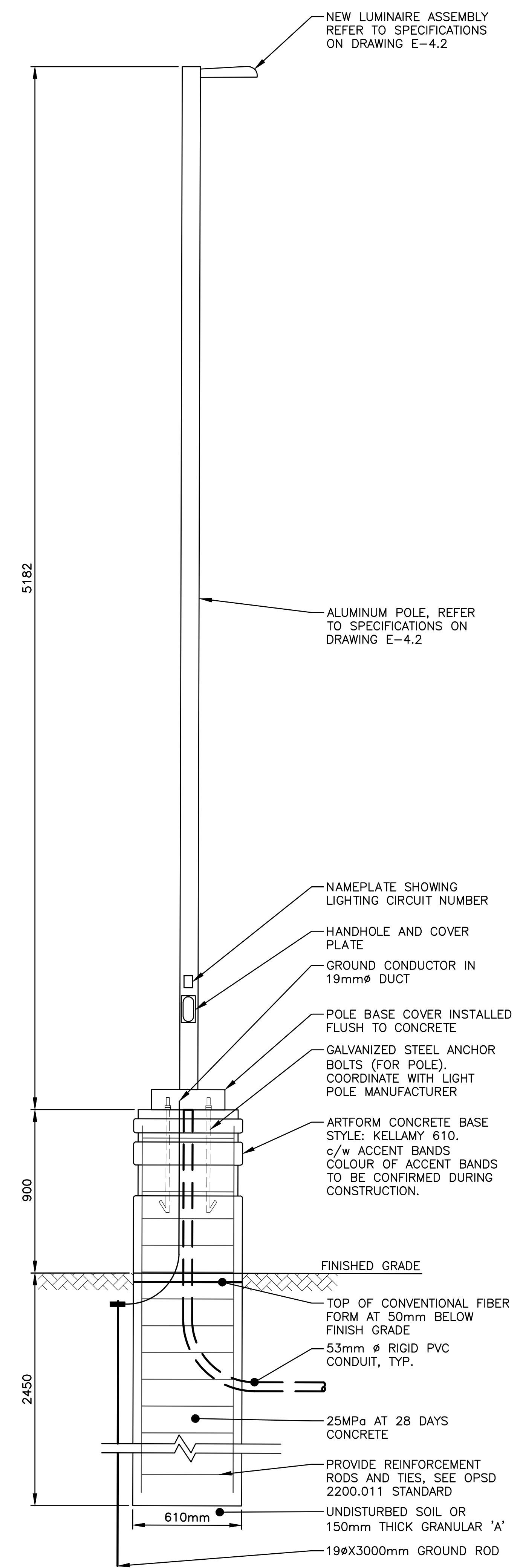
5 B1 BOLLARD LIGHTING TYPICAL INSTALLATION

E4.1

- NTS
- FOR INSTALLATION DETAILS REFER TO OPSP 2200.041



2 TYPICAL WIRING DETAIL FOR STREET LIGHT
E4.1 • NTS



4 LUMINAIRE INSTALLATION DETAIL

E4.1

- NTS, DIMENSIONS SHOWN IN mm
- REFER TO LUMINAIRE ASSEMBLY SCHEDULE FOR QUANTITIES



TATHAM
ENGINEERING

DESIGN: PP/SRT	FILE: 121075	DWG: E-4.1
DRAWN: PP/KRL	DATE: SEPT. 2022	
CHECK: SRT	SCALE: AS SHOWN	

[illegible]

Project Name:

Part Number:

SKYLINE

AURA LIGHT SERIES

FEATURES

- Specification Grade cast aluminum housing
- 100% Dimmable, DALI, 0-10V, 0-5V, 0-1V, 0-2V, 0-3V, 0-4V, 0-5V, 0-6V, 0-7V, 0-8V, 0-9V, 0-10V, 0-11V, 0-12V, 0-13V, 0-14V, 0-15V, 0-16V, 0-17V, 0-18V, 0-19V, 0-20V, 0-21V, 0-22V, 0-23V, 0-24V, 0-25V, 0-26V, 0-27V, 0-28V, 0-29V, 0-30V, 0-31V, 0-32V, 0-33V, 0-34V, 0-35V, 0-36V, 0-37V, 0-38V, 0-39V, 0-40V, 0-41V, 0-42V, 0-43V, 0-44V, 0-45V, 0-46V, 0-47V, 0-48V, 0-49V, 0-50V, 0-51V, 0-52V, 0-53V, 0-54V, 0-55V, 0-56V, 0-57V, 0-58V, 0-59V, 0-60V, 0-61V, 0-62V, 0-63V, 0-64V, 0-65V, 0-66V, 0-67V, 0-68V, 0-69V, 0-70V, 0-71V, 0-72V, 0-73V, 0-74V, 0-75V, 0-76V, 0-77V, 0-78V, 0-79V, 0-80V, 0-81V, 0-82V, 0-83V, 0-84V, 0-85V, 0-86V, 0-87V, 0-88V, 0-89V, 0-90V, 0-91V, 0-92V, 0-93V, 0-94V, 0-95V, 0-96V, 0-97V, 0-98V, 0-99V, 0-100V, 0-101V, 0-102V, 0-103V, 0-104V, 0-105V, 0-106V, 0-107V, 0-108V, 0-109V, 0-110V, 0-111V, 0-112V, 0-113V, 0-114V, 0-115V, 0-116V, 0-117V, 0-118V, 0-119V, 0-120V, 0-121V, 0-122V, 0-123V, 0-124V, 0-125V, 0-126V, 0-127V, 0-128V, 0-129V, 0-130V, 0-131V, 0-132V, 0-133V, 0-134V, 0-135V, 0-136V, 0-137V, 0-138V, 0-139V, 0-140V, 0-141V, 0-142V, 0-143V, 0-144V, 0-145V, 0-146V, 0-147V, 0-148V, 0-149V, 0-150V, 0-151V, 0-152V, 0-153V, 0-154V, 0-155V, 0-156V, 0-157V, 0-158V, 0-159V, 0-160V, 0-161V, 0-162V, 0-163V, 0-164V, 0-165V, 0-166V, 0-167V, 0-168V, 0-169V, 0-170V, 0-171V, 0-172V, 0-173V, 0-174V, 0-175V, 0-176V, 0-177V, 0-178V, 0-179V, 0-180V, 0-181V, 0-182V, 0-183V, 0-184V, 0-185V, 0-186V, 0-187V, 0-188V, 0-189V, 0-190V, 0-191V, 0-192V, 0-193V, 0-194V, 0-195V, 0-196V, 0-197V, 0-198V, 0-199V, 0-200V, 0-201V, 0-202V, 0-203V, 0-204V, 0-205V, 0-206V, 0-207V, 0-208V, 0-209V, 0-210V, 0-211V, 0-212V, 0-213V, 0-214V, 0-215V, 0-216V, 0-217V, 0-218V, 0-219V, 0-220V, 0-221V, 0-222V, 0-223V, 0-224V, 0-225V, 0-226V, 0-227V, 0-228V, 0-229V, 0-230V, 0-231V, 0-232V, 0-233V, 0-234V, 0-235V, 0-236V, 0-237V, 0-238V, 0-239V, 0-240V, 0-241V, 0-242V, 0-243V, 0-244V, 0-245V, 0-246V, 0-247V, 0-248V, 0-249V, 0-250V, 0-251V, 0-252V, 0-253V, 0-254V, 0-255V, 0-256V, 0-257V, 0-258V, 0-259V, 0-260V, 0-261V, 0-262V, 0-263V, 0-264V, 0-265V, 0-266V, 0-267V, 0-268V, 0-269V, 0-270V, 0-271V, 0-272V, 0-273V, 0-274V, 0-275V, 0-276V, 0-277V, 0-278V, 0-279V, 0-280V, 0-281V, 0-282V, 0-283V, 0-284V, 0-285V, 0-286V, 0-287V, 0-288V, 0-289V, 0-290V, 0-291V, 0-292V, 0-293V, 0-294V, 0-295V, 0-296V, 0-297V, 0-298V, 0-299V, 0-300V, 0-301V, 0-302V, 0-303V, 0-304V, 0-305V, 0-306V, 0-307V, 0-308V, 0-309V, 0-310V, 0-311V, 0-312V, 0-313V, 0-314V, 0-315V, 0-316V, 0-317V, 0-318V, 0-319V, 0-320V, 0-321V, 0-322V, 0-323V, 0-324V, 0-325V, 0-326V, 0-327V, 0-328V, 0-329V, 0-330V, 0-331V, 0-332V, 0-333V, 0-334V, 0-335V, 0-336V, 0-337V, 0-338V, 0-339V, 0-340V, 0-341V, 0-342V, 0-343V, 0-344V, 0-345V, 0-346V, 0-347V, 0-348V, 0-349V, 0-350V, 0-351V, 0-352V, 0-353V, 0-354V, 0-355V, 0-356V, 0-357V, 0-358V, 0-359V, 0-360V, 0-361V, 0-362V, 0-363V, 0-364V, 0-365V, 0-366V, 0-367V, 0-368V, 0-369V, 0-370V, 0-371V, 0-372V, 0-373V, 0-374V, 0-375V, 0-376V, 0-377V, 0-378V, 0-379V, 0-380V, 0-381V, 0-382V, 0-383V, 0-384V, 0-385V, 0-386V, 0-387V, 0-388V, 0-389V, 0-390V, 0-391V, 0-392V, 0-393V, 0-394V, 0-395V, 0-396V, 0-397V, 0-398V, 0-399V, 0-400V, 0-401V, 0-402V, 0-403V, 0-404V, 0-405V, 0-406V, 0-407V, 0-408V, 0-409V, 0-410V, 0-411V, 0-412V, 0-413V, 0-414V, 0-415V, 0-416V, 0-417V, 0-418V, 0-419V, 0-420V, 0-421V, 0-422V, 0-423V, 0-424V, 0-425V, 0-426V, 0-427V, 0-428V, 0-429V, 0-430V, 0-431V, 0-432V, 0-433V, 0-434V, 0-435V, 0-436V, 0-437V, 0-438V, 0-439V, 0-440V, 0-441V, 0-442V, 0-443V, 0-444V, 0-445V, 0-446V, 0-447V, 0-448V, 0-449V, 0-450V, 0-451V, 0-452V, 0-453V, 0-454V, 0-455V, 0-456V, 0-457V, 0-458V, 0-459V, 0-460V, 0-461V, 0-462V, 0-463V, 0-464V, 0-465V, 0-466V, 0-467V, 0-468V, 0-469V, 0-470V, 0-471V, 0-472V, 0-473V, 0-474V, 0-475V, 0-476V, 0-477V, 0-478V, 0-479V, 0-480V, 0-481V, 0-482V, 0-483V, 0-484V, 0-485V, 0-486V, 0-487V, 0-488V, 0-489V, 0-490V, 0-491V, 0-492V, 0-493V, 0-494V, 0-495V, 0-496V, 0-497V, 0-498V, 0-499V

[illegible]

HCI Aluminium Square Pole

**POLE ASSEMBLY TYPES
"L1"**

Base: Square, square 0.250" wall aluminium tube with round endcap mounted to the base plate with reinforced ribs.

Base Cover: Square, two piece cast aluminium attached to pole with stainless steel screws.

Anchor bolts: A hardened 19mm (3/4") x 100mm (3 7/8") long. Anchor bolts and turnbuckles are supplied by HCI.
Base Cover (1) 19mm (3/4")

Finish: Electrocoat powder, thermoset polymer coating color finish.

Colour: Rinnas RAL8019

Size: N/A **Designer:** RL
Order: 000-000 **Drawing No.:** 10558
Model: POLE-SQ-BASIC-0-Ribak

Project: 12351, 130, 20 Development
From: MILUX Ltd
Phone: MILUX Ltd, information on all stages and site
Drawing: MILUX Ltd, signed and stamped by HCI

HCI
Hollmann Corporation Inc.

1301 West 5th Ave. Hollmann Corp. 1301 West 5th Ave. Unit 100
Tel: (416) 293-6348 Fax: (416) 293-6900
P.O. Box 79 Tel: (416) 293-6348 Fax: (416) 293-6900
E: info@hcinet.com W: www.hcinet.com

www.AFCORCONCRETEBASE.com

P.O.L. DETAILS		
POLE LENGTH	BASE HEIGHT	HEIGHT TO TOP OF LIGHT FIXTURE
12	12	12
15	15	15
18	18	18
21	21	21
24	24	24
27	27	27
30	30	30
33	33	33
36	36	36
39	39	39
42	42	42
45	45	45
48	48	48
51	51	51
54	54	54
57	57	57
60	60	60
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390	390	390
393	393	393
396	396	396
399	399	399
402	402	402
405	405	405
408	408	408
411	411	411
414	414	414

1 POLE.
E4.2 • N.T.S.

[illegible]

Feature Type: _____ Model Number: _____ Project Name: _____									
									
SIZE	DIMENSIONS	MOUNTING	MOUNTING	COLOR(S)	TRIM STYLE	OPTIONS	VOLTAGE	HEIGHT	FINISH
AR	6	B					UNV		

MODEL NUMBER DAIL

Series	AR	Allura Lowvoltage LED Indirect	
Diameter	6	6.30" Outer Diameter	
Mounting	B	Recessed Mount	
Weight	250P	15-watt (120 module) (8770watt)	
	250SD	15-watt (120 module) (8770watt)	
Color (K)	AK	3000K (Dimmable Daylight)	Allura Replaces a 6.5A Deck Day Agreement when utilized with either 3000K (21 module) or 3500K Annular (17 module)
	AK008	4000K	
	AKML	3500K Annular (204 Deck Day Agreement)	
Trim Style	B	Recessed Trim	
	D	Conte Trim	
	O	Open Top	
	F	Flat Top	
Options	G26	Recessable Box with Cover for GFCI Outlet (needed for attics)	
	P86	Passive infrared Motion Sensor (120v-477v w/line)	
	350SDS	180° Rotatable Shield	
	350SDSS	120° Rotatable Shield	
Voltage	UNV	Universal Voltage (120v-277v) (30/30Watt, constant current dimmable driver)	
Height	NS	10" Overall Height	
	AS	12" Overall Height	
	CH	Custom Height - Consult Factory	
Finish	RSL	Black	
	RSD	Brush	
	GSP	Gray	
	NK	Nickel	
	WLT	White	
	LC	Custom Color - Consult Factory	







current or specification sheet subject to change

NW 1104510 Road Avenue

Macombtown, VA 75351

P 877 965 0003

info@intrigue.com

Aug-21

[illegible]

2 BOLL
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Luminaire Schedule							
Symbol	Qty	Label	Arr.	Arr. Watts	Lum. Lumens	LLF	Description
	18	W1	Single	19	2649	0.870	SEE SPECIFICATION SHEET ON THIS PAGE
	17	W1	Single	19	2649	0.200	SEE SPECIFICATION SHEET ON THIS PAGE
	6	B1	Single	21	2649	0.870	SEE SPECIFICATION SHEET ON THIS PAGE
	4	L1	Single	30	2500	0.810	SEE SPECIFICATION SHEET ON THIS PAGE

4 LUMI
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TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

1. LEGAL AND TOPOGRAPHICAL INFORMATION PROVIDED BY ZUBEK, EMO, PATTEN & THOMSEN LIMITED, RECEIVED APRIL 9, 2021, JOB NO. 86-39-8.

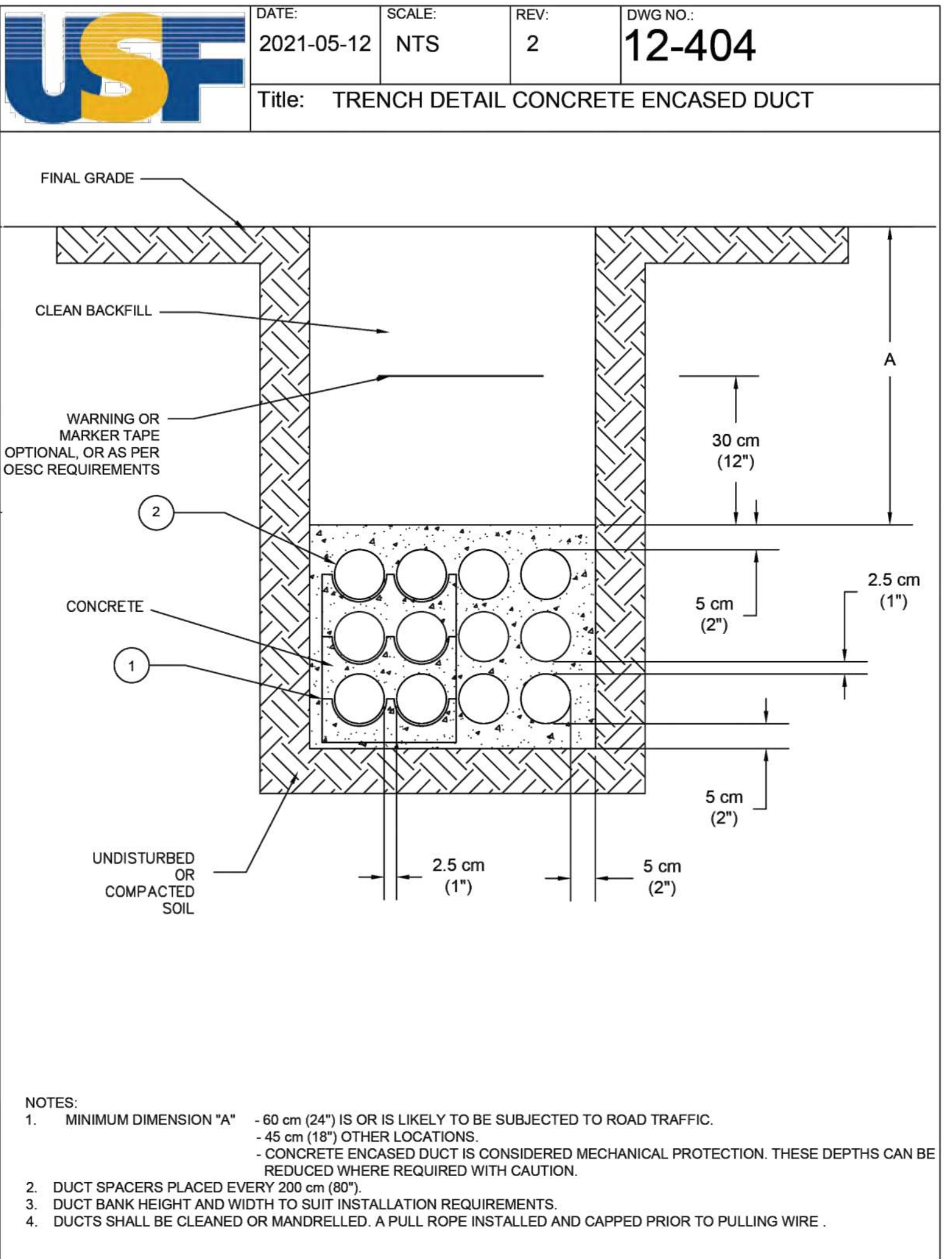
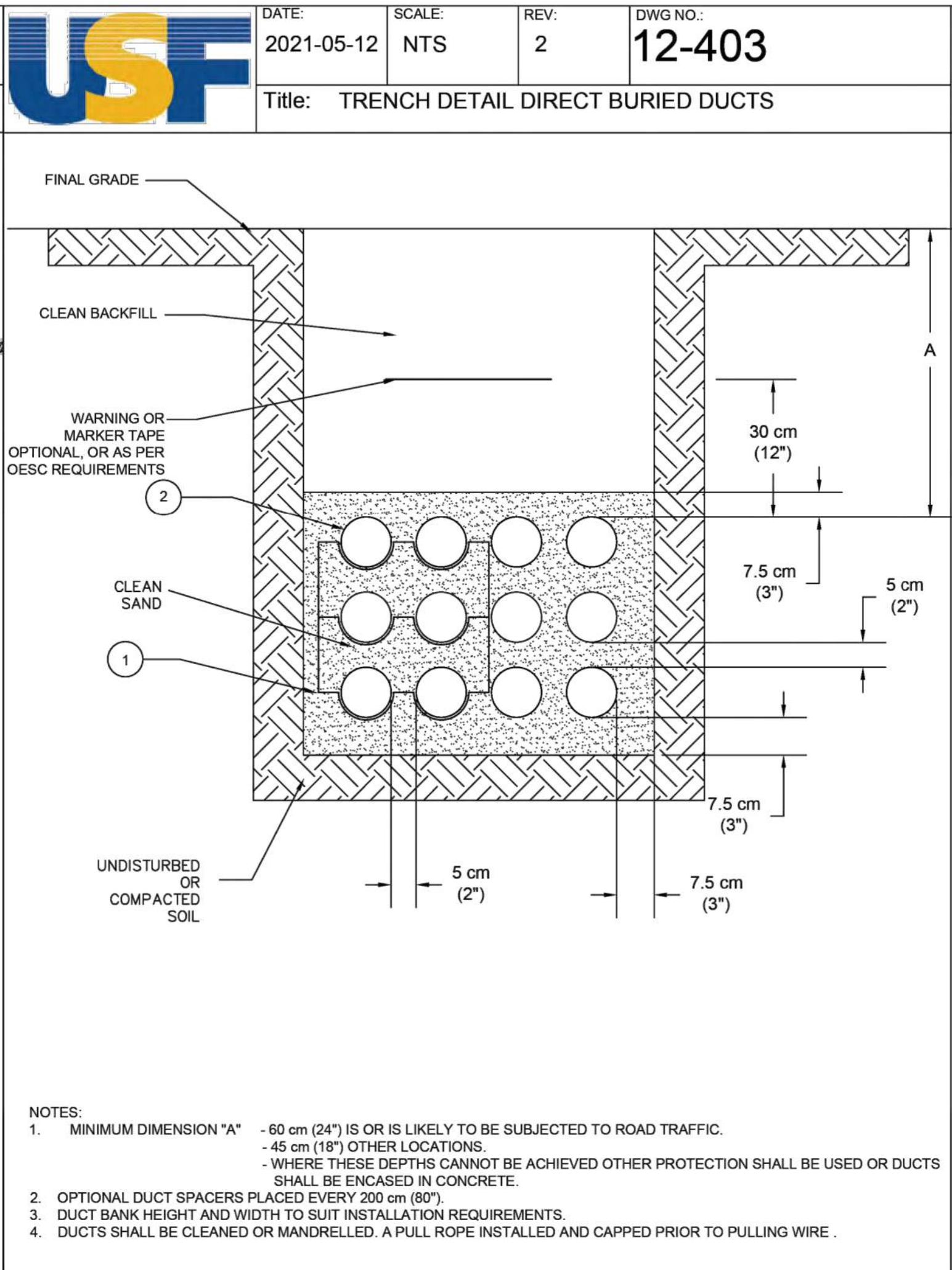
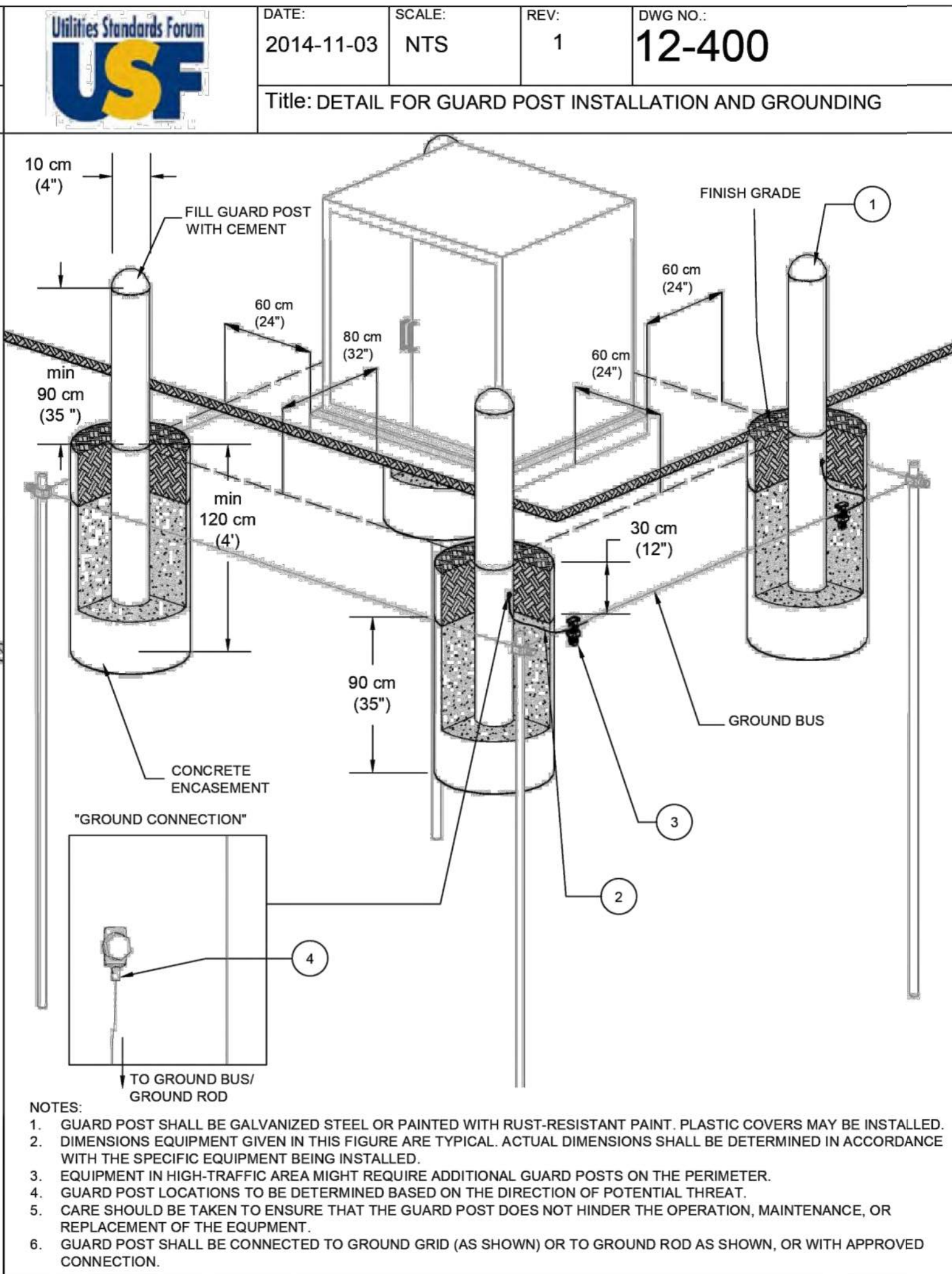
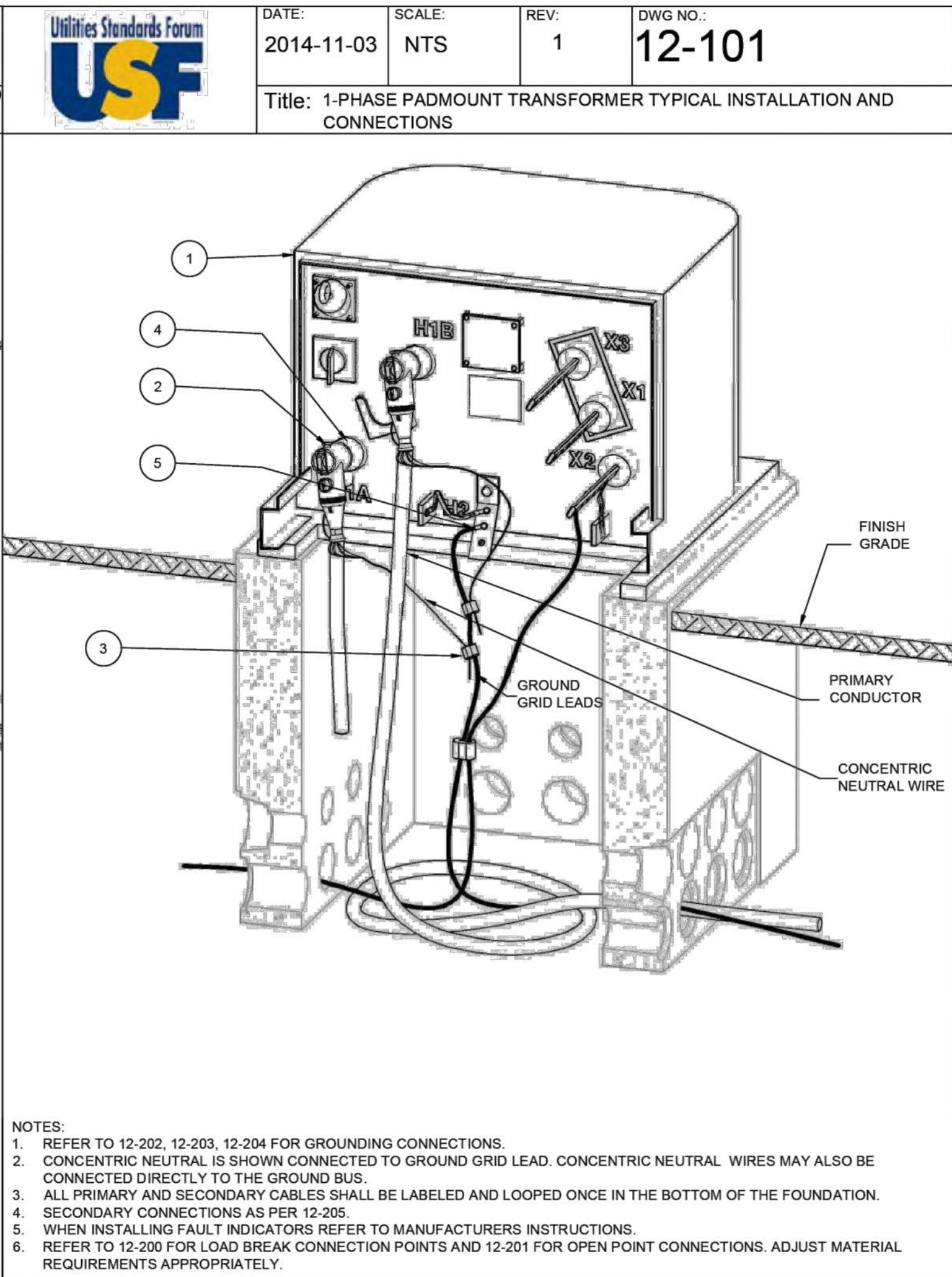
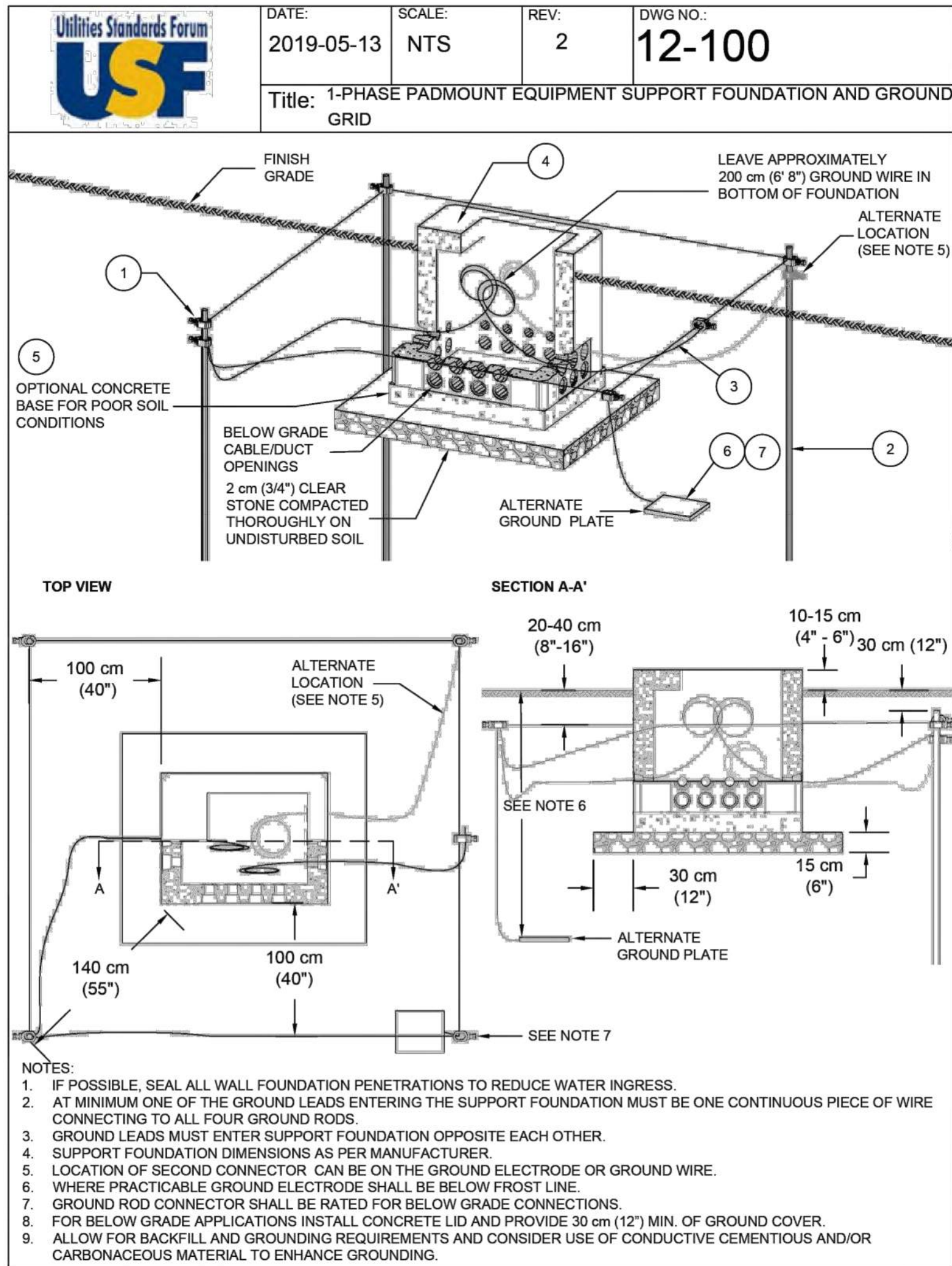
2. SITE PLAN LAYOUT PROVIDED BY ORGANICA STUDIO INC. DATED MARCH 4, 2025.

No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	1ST SUBMISSION	SEPT 2022	
2.	2ND SUBMISSION	JUN 2024	
3.	3RD SUBMISSION	MAR 2025	



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ENGINEERING

CHECK: SRT	SCALE: AS SHOWN
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MATERIAL LIST 12-100			
Part #	Qty.	Description	Part Number
1	6	Connector, Ground Rod	U01145, U01146
2	4	Ground Rod	U05912, U00484, U06001
3	as req'd	Ground Wire 2/0 AWG Cu	U10650
4	1	Foundation	U11200
5	Optional	Concrete Base	U06952
6	4	Ground Plate (Substitute for Part #2)	U05805
7	4	Connector, Ground Plate	U05270

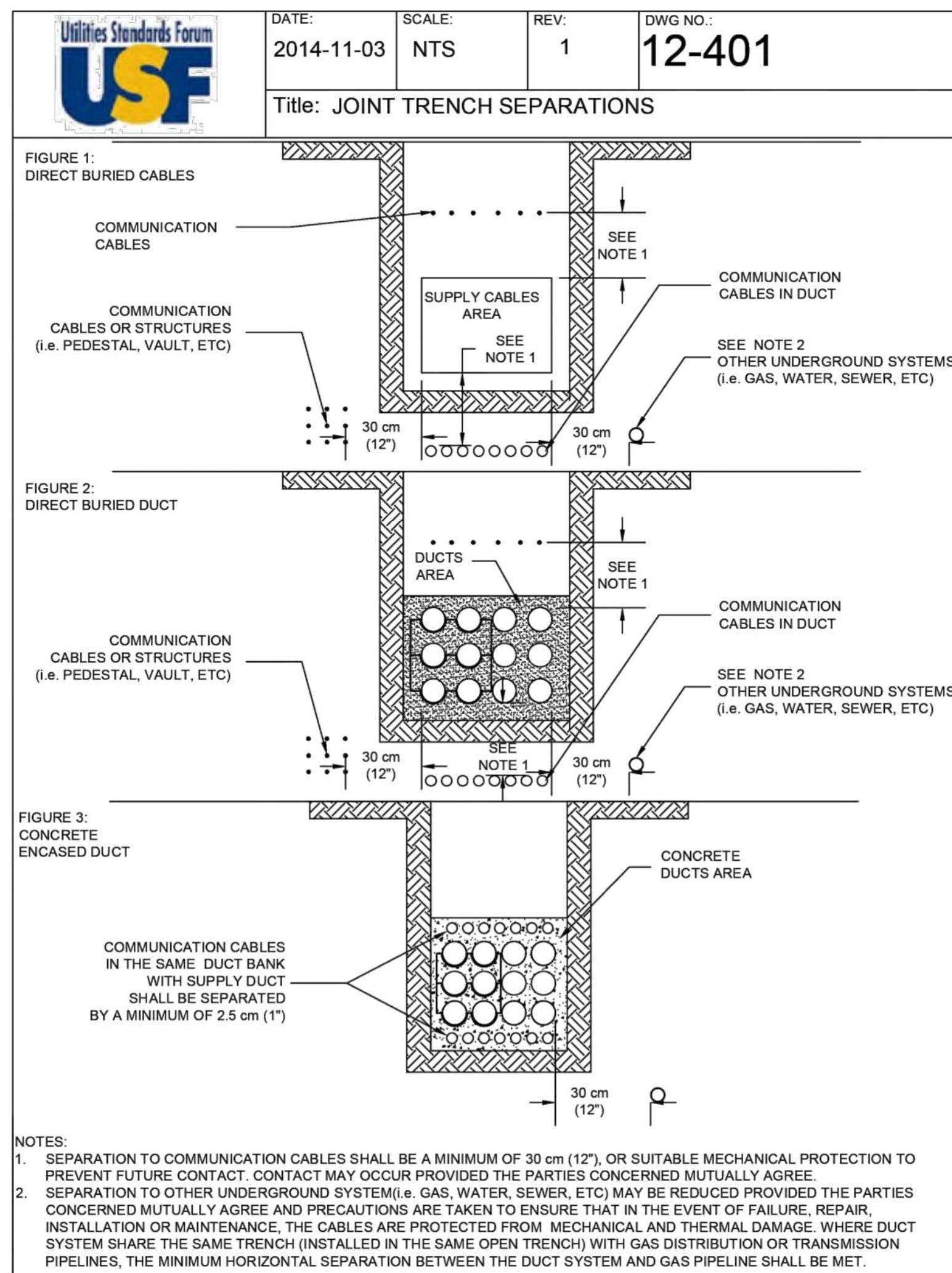
MATERIAL LIST 12-101			
Part #	Qty.	Description	Part Number
1	1	Transformer, 1-Phase Padmount	U10700
2	2	Elbow, Load Break	U05511
3	as req'd	Connector	U01144, U05284- U05289
4	as req'd	Bushing Insert	U06350
5	as req'd	Connector, Lug	U05610
Optional	as req'd	Feed Thru Insert	U05476-U05478
Optional	as req'd	Bushing Arrestor	U10750
Optional	as req'd	Parking Stand	U10800
Optional	as req'd	Feed Thru Parking Stand	U05467
Optional	as req'd	Parking Stand Arrestor	U05185-U05187
Optional	as req'd	Elbow Arrestor	U11800
Optional	as req'd	Fault Indicators	U05465

MATERIAL LIST 12-400			
Part #	Qty.	Description	Part Number
1	as req'd	Guard Post	U11100
2	as req'd	Ground Wire 2/0 AWG Cu	U10650
3	as req'd	Connector	U05585
4	as req'd	Connector, Lug	U05610

MATERIAL LIST 12-403			
Part #	Qty.	Description	Part Number
1	as req'd	Duct spacers	U11250
2	as req'd	Duct	To Duct Diameter To Suit the Application

MATERIAL LIST 12-404			
Part #	Qty.	Description	Part Number
1	as req'd	Duct spacers	U11250
2	as req'd	Duct	To Duct Diameter To Suit the Application

MATERIAL LIST 12-401			
Not Applicable			



DISCLAIMER AND COPYRIGHT

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.

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BENCHMARKS

TBM1 - ELEVATION 181.14m
TOP NUT OF FIRE HYDRANT LOCATED AT NORTHWEST CORNER OF DAWSON DRIVE AND FAIRWAY CRESCENT SOUTH INTERSECTION.

NOTES

- LEGAL AND TOPOGRAPHICAL INFORMATION PROVIDED BY ZUBEK, EMO, PATTEN & THOMSEN LIMITED, RECEIVED APRIL 9, 2021, JOB NO. 86-39-8.
- SITE PLAN LAYOUT PROVIDED BY ORGANICA STUDIO+ INC. DATED MARCH 4, 2025.

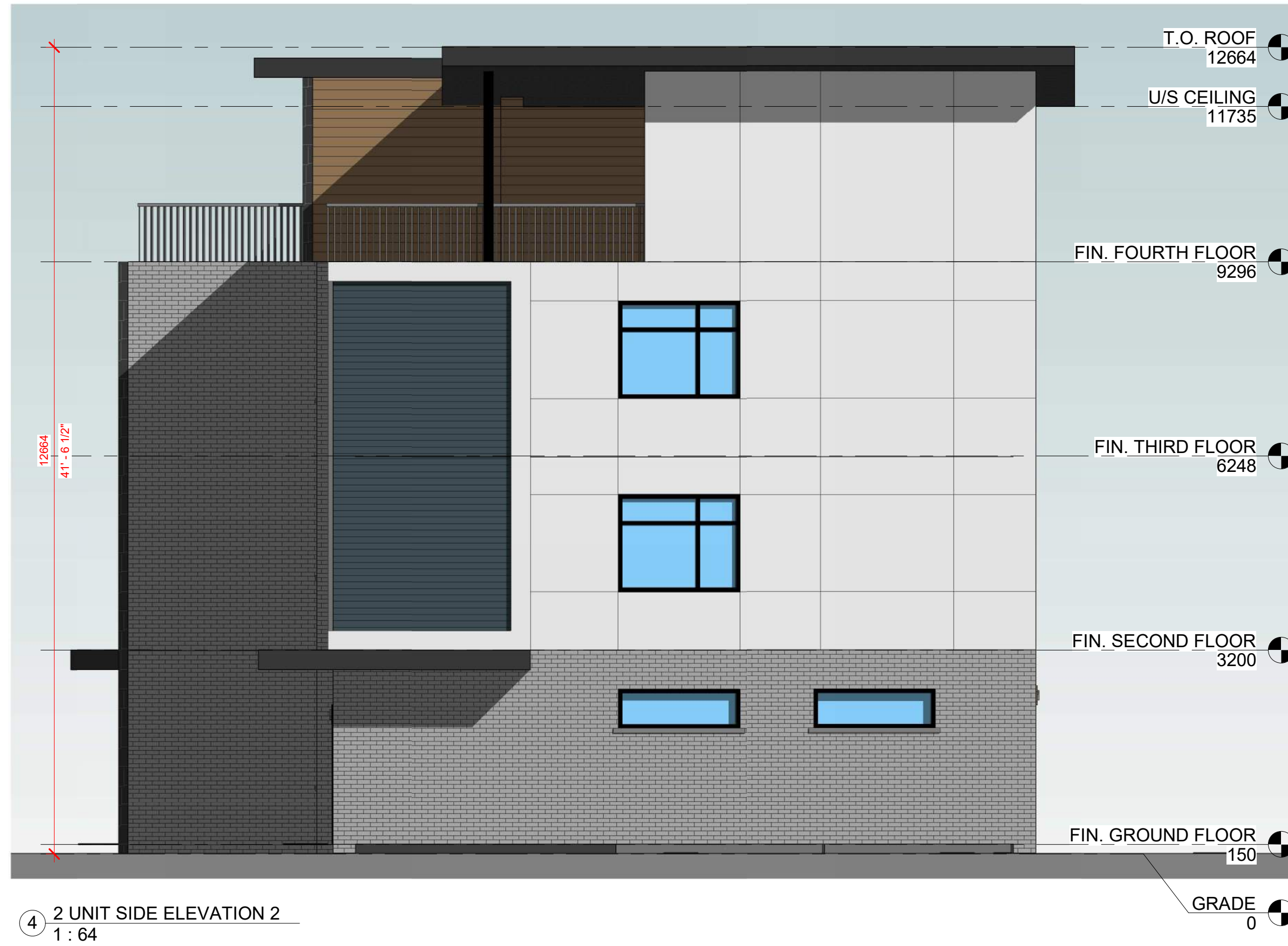
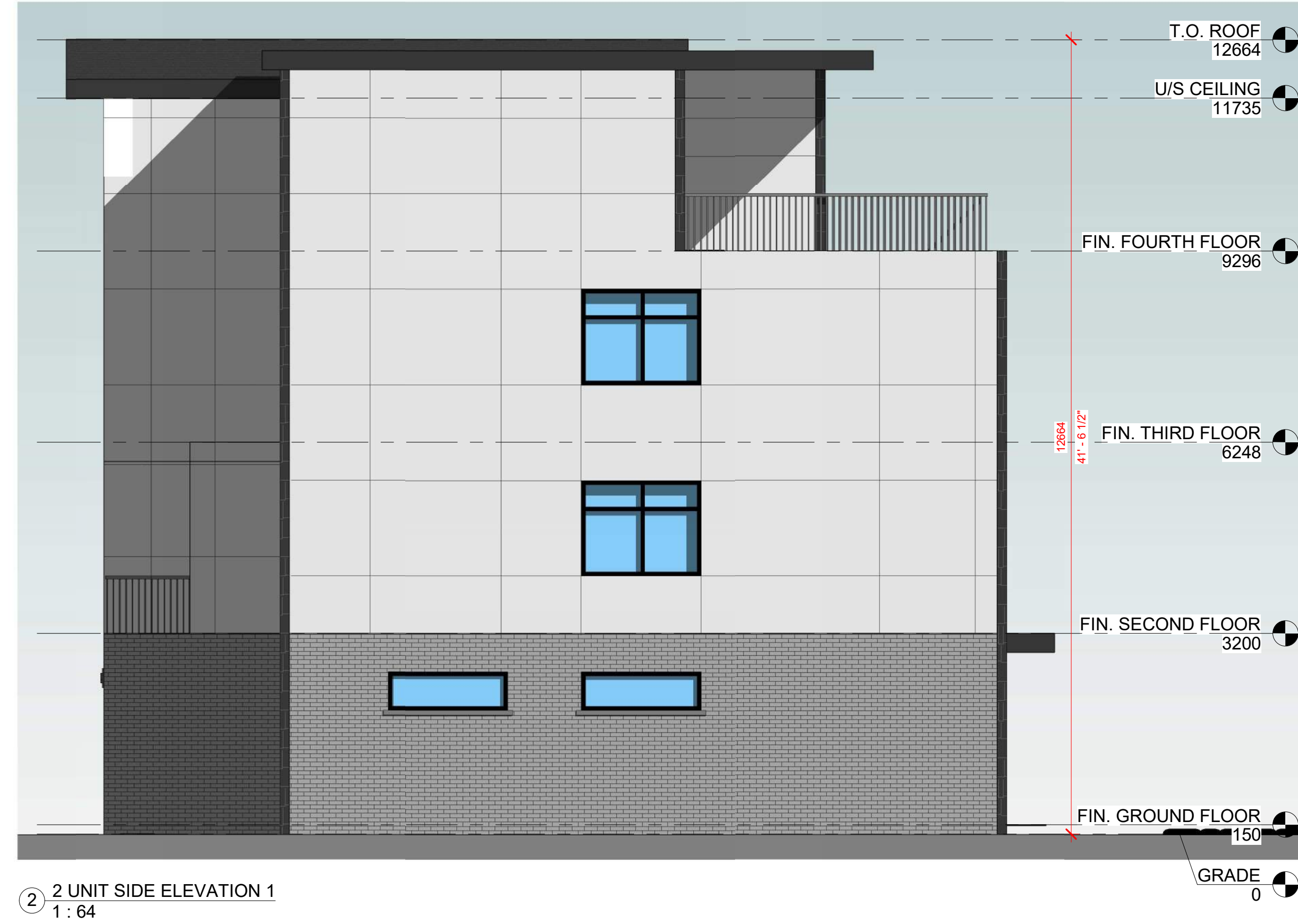
No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	1ST SUBMISSION	SEPT 2022	
2.	2ND SUBMISSION	JUN 2024	
3.	3RD SUBMISSION	MAR 2025	

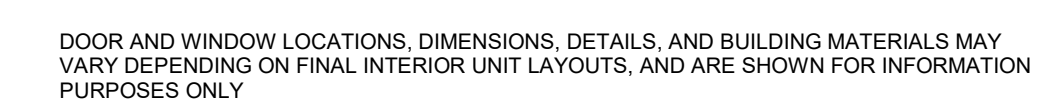
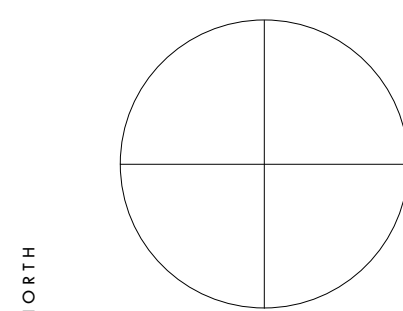
THE TERRAZZO
TOWN OF COLLINGWOOD

USF STANDARDS

TATHAM
ENGINEERING

DESIGN: PP/SRT	FILE: 121075	DWG:
DRAWN: PP/KRL	DATE: SEPT. 2022	E-5.1
CHECK: SRT	SCALE: AS SHOWN	



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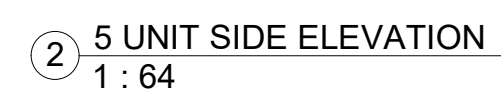
BLOCK VARIATION ELEVATIONS

THE TERRAZZO

Dawson Drive, Collingwood ON

SCALE	As Indicated
DATE	2025-03-26 11:38:07 AM
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CHECKED	J.C.
PROJECT NUMBER	21019
SHEET	

A102.1



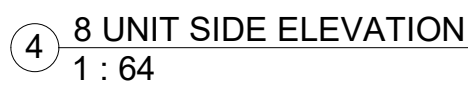
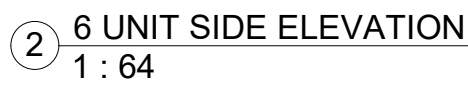
DOOR AND WINDOW LOCATIONS, DIMENSIONS, DETAILS, AND BUILDING MATERIALS MAY VARY DEPENDING ON FINAL INTERIOR UNIT LAYOUTS, AND ARE SHOWN FOR INFORMATION PURPOSES ONLY



NO.	DESCRIPTION	DATE
1	ISSUED FOR S/A	2022.08.16
2	ISSUED FOR SECOND SUBMISSION S/A	2022.04.25
2	ISSUED FOR NEW S/A	2022.06.26

Dawson Drive, Collingwood ON

A102.3



NO.	DESCRIPTION	DATE
1	ISSUED FOR SPA	2022/08/16
2	ISSUED FOR SECURED SUBMITSION SPA	2002/04/25
3	CONFIRMED FOR THE SPA	2002/04/25

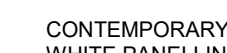
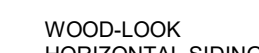
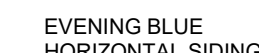
BLOCK VARIATION ELEVATIONS

THE TERRAZZO

Dawson Drive, Collingwood ON

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CHECKED	J.C.
PROJECT NUMBER	21019
SHEET	

A102.4



GENERAL NOTE

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