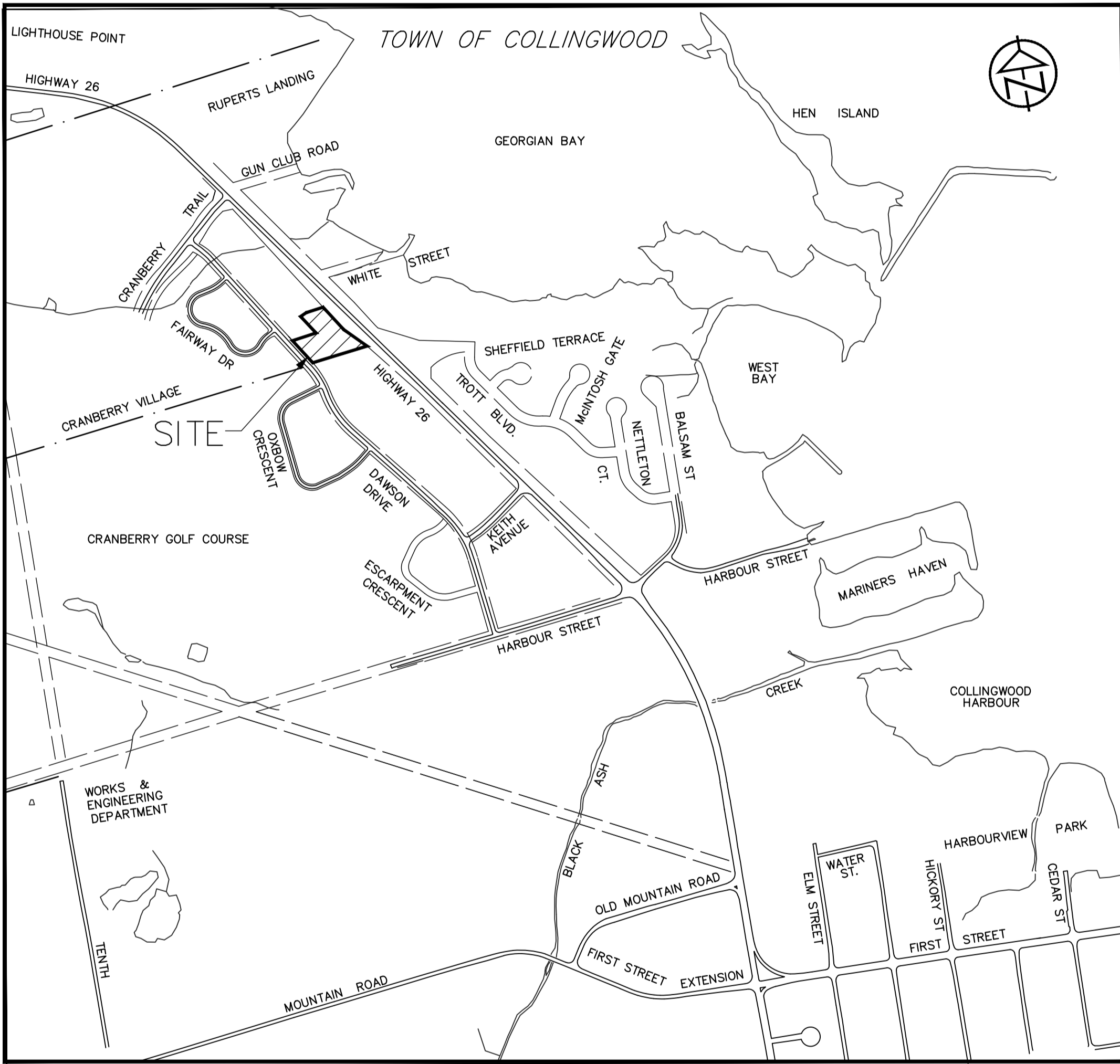


THE TERRAZZO TOWN OF COLLINGWOOD



**THIRD SUBMISSION
TATHAM FILE 121075
TOWN FILE D111722
MARCH 2025**



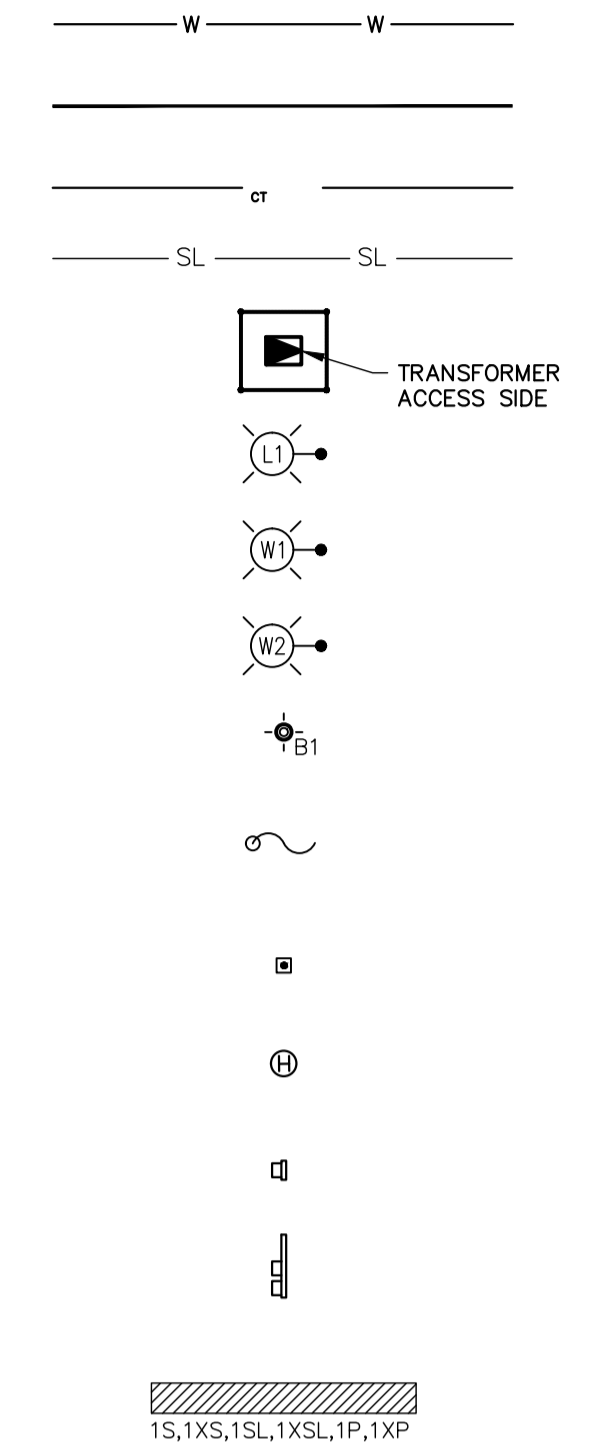
INDEX

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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
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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

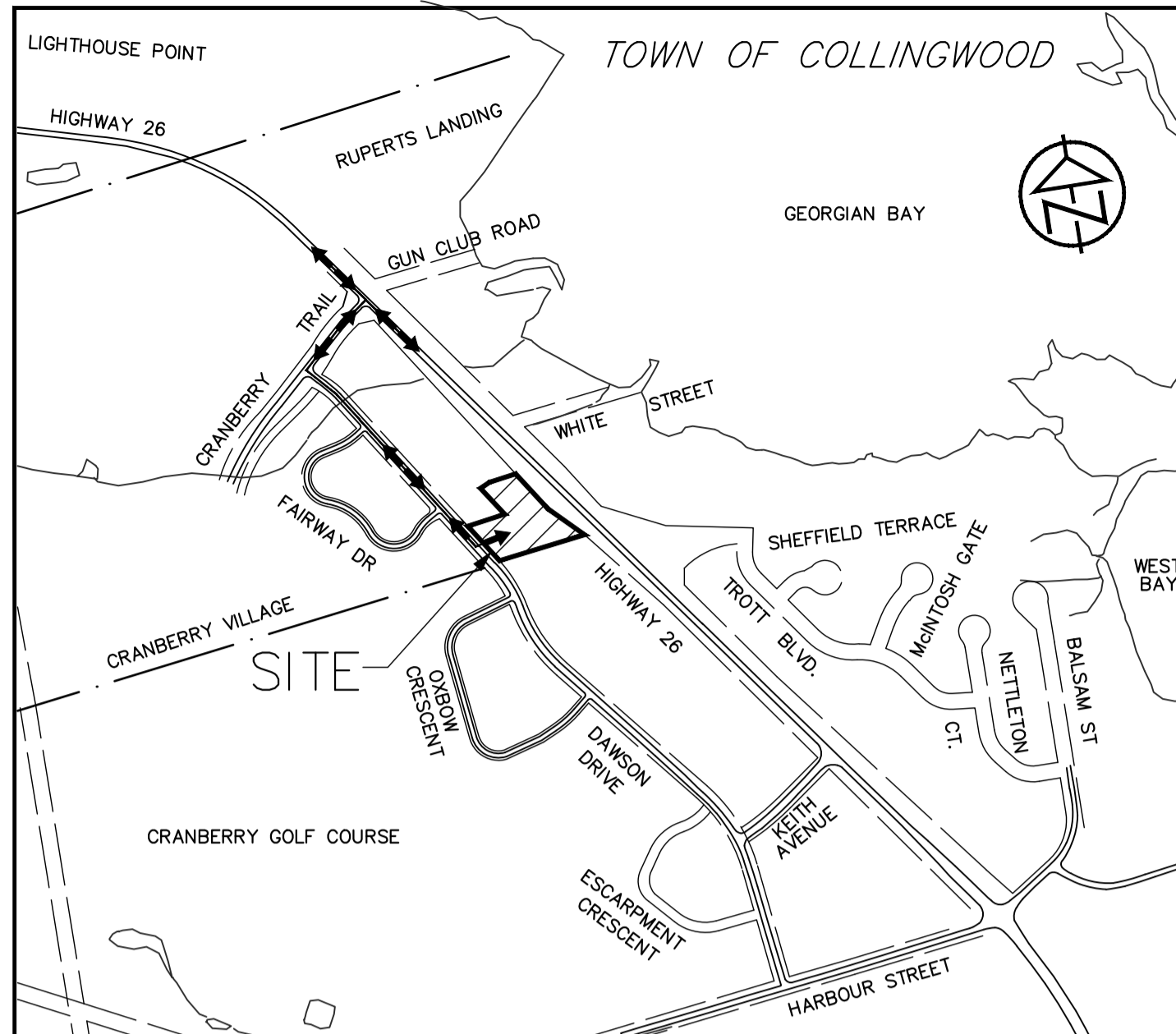
LEGEND

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	-----> 200# SAN
PROPOSED SANITARY SEWER/SIZE/DIRECTION OF FLOW	-----> 200# SAN
EXISTING SANITARY SERVICE	-----
PROPOSED SANITARY SERVICE	-----
EXISTING WATERMAIN/SIZE	----- 150# W/M
PROPOSED WATERMAIN/SIZE	----- 150# W/M
EXISTING GOLF COURSE IRRIGATION LINE	----- 200# GOLF COURSE W/M
PROPOSED WATERMAIN/SIZE	----- 150# W/M
EXISTING WATER SERVICE	-----
PROPOSED WATER SERVICE	-----
EXISTING STORM SEWER/SIZE/DIRECTION OF FLOW	-----> 375# STM
PROPOSED STORM SEWER/SIZE/DIRECTION OF FLOW	-----> 375# STM
PROPOSED STORM SERVICE	-----
EXISTING CULVERT	====
PROPOSED CULVERT	====
PROPOSED SWALE LOCATION	----->
EXISTING GAS MAIN	----- GAS
PROPOSED GAS MAIN	----- GAS
EXISTING FENCELINE	----- X
PROPOSED FENCELINE	----- X
EXISTING BUSHLINE	-----
EXISTING CONTOUR	----- 179.00
EXISTING SPOT ELEVATION	x 179.00
PROPOSED SPOT ELEVATION	x 179.00
PROPOSED TOP OF CURB ELEVATION	x 179.00TC
EXISTING GRADING DIRECTION	----->
PROPOSED GRADING DIRECTION	----->
EXISTING TEMPORARY BENCHMARK	● TBM
EXISTING STANDARD IRON BAR	■ SIB
EXISTING BOREHOLE/NUMBER	⊕ BH#
EXISTING GAS VALVE	⊕ GAS
EXISTING HYDRO TRANSFORMER	⊕
EXISTING CABLE PEDESTAL	⊕
EXISTING BELL PEDESTAL	⊕
EXISTING BELL MAINTENANCE HOLE	○ BELL MH
EXISTING HYDRO POLE	○ HP
EXISTING HYDRO GUY WIRE	---
EXISTING LIGHT STANDARD	○ LS
EXISTING TRAFFIC SIGN	⊕ TS
EXISTING DECIDUOUS TREE	⊕
EXISTING CONIFEROUS TREE	⊕
EXISTING SHRUB	⊕
EXISTING SANITARY MAINTENANCE HOLE/NUMBER	○ SAN MH#
PROPOSED SANITARY MAINTENANCE HOLE/NUMBER	● SAN MH#
PROPOSED SANITARY SERVICE CAP	⊕
EXISTING HYDRANT	⊕ HYD
PROPOSED HYDRANT	◆ HYD
EXISTING WATER VALVE	⊕ WV
PROPOSED WATER VALVE	◆ WV
PROPOSED CURB STOP VALVE (DOMESTIC/FIRE SERVICE)	◆
PROPOSED WATERMAIN PLUG	⊕
PROPOSED WATERMAIN REDUCER	▶
EXISTING STORM MAINTENANCE HOLE/NUMBER	○ STM MH#
PROPOSED STORM MAINTENANCE HOLE/NUMBER	● STM MH#
EXISTING CATCH BASIN	□ CB#
PROPOSED CATCH BASIN	■ CB#
PROPOSED CATCH BASIN MAINTENANCE HOLE/NUMBER	○ CBMH#
PROPOSED DOUBLE CATCH BASIN MAINTENANCE HOLE/NUMBER	⊕ DCBMH#
PROPOSED DOUBLE CATCH BASIN/NUMBER	■ DCB#
PROPOSED DITCH INLET CATCH BASIN/NUMBER	■ DICB#
PROPOSED TACTILE WALKING SURFACE INDICATOR	▨
PROPOSED CURB DEPRESSION	▨
PROPOSED SOFT LANDSCAPING	▨

PROPOSED 1Ø PRIMARY CABLE AND CONDUIT (WHITE PHASE).	----- W ----- W -----
PROPOSED SECONDARY ELECTRICAL SERVICE CABLE(S) (120/240V).	-----
PROPOSED STREET LIGHTING CABLE IN COMMON TRENCH WITH EPCOR.	----- ET -----
PROPOSED STREET LIGHT CABLE(S) AND 53mmØ CONDUIT (PVC TYPE DB2).	----- SL ----- SL -----
PROPOSED 1PH POWER TRANSFORMER AND GROUNDING GRID	⊕
PROPOSED STREET LIGHT, L# DENOTES LUMINAIRE TYPE	⊕ L#
PROPOSED WALL PACK LIGHT, W# DENOTES LUMINAIRE TYPE	⊕ W#
PROPOSED WALL PACK LIGHT, W# DENOTES LUMINAIRE TYPE	⊕ W#
PROPOSED BOLLARD LIGHT, B# DENOTES LUMINAIRE TYPE	⊕ B#
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:	▨
<ul style="list-style-type: none"> 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 	1S, 1XS, 1SL, 1XSL, 1P, 1XP

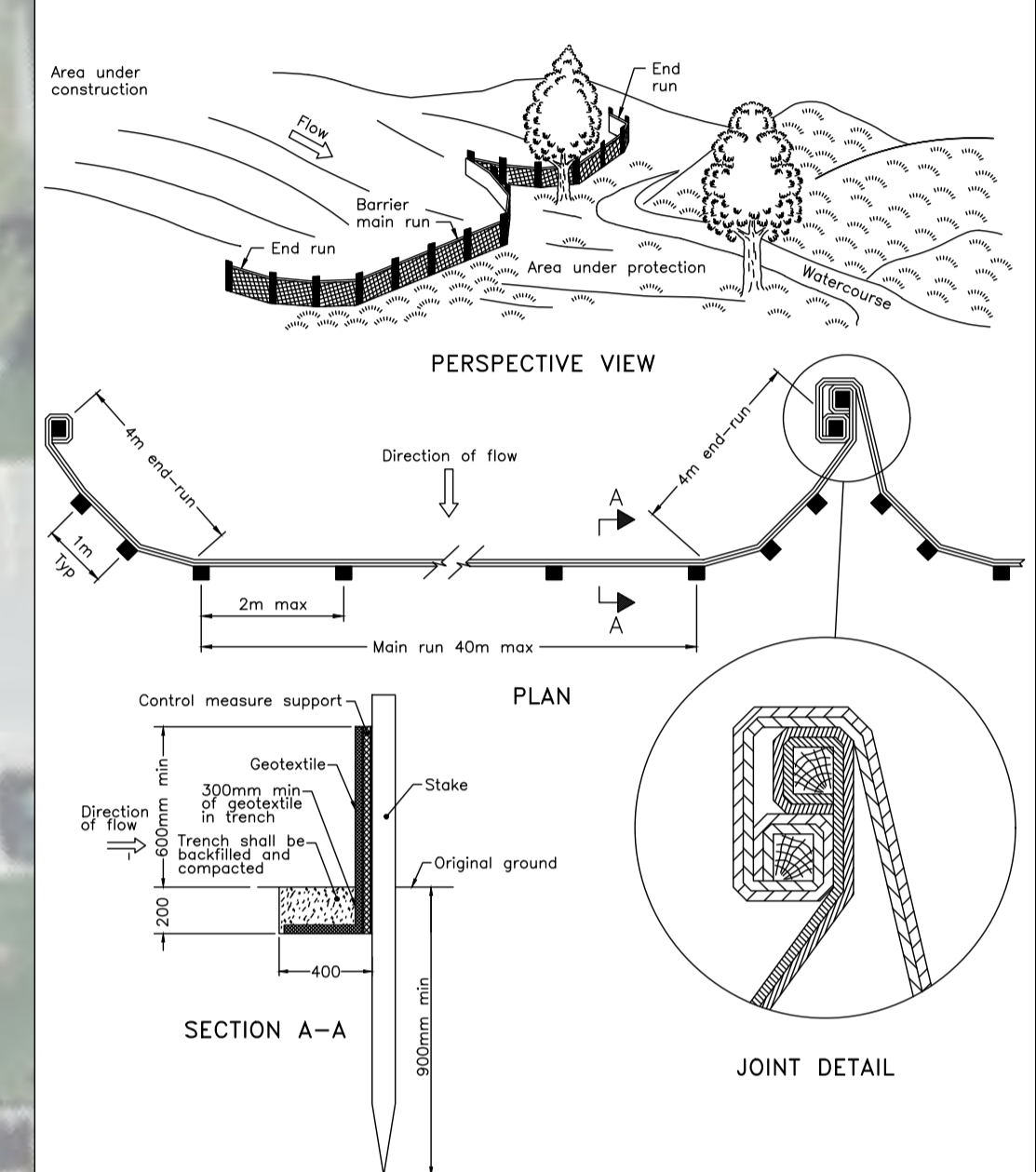
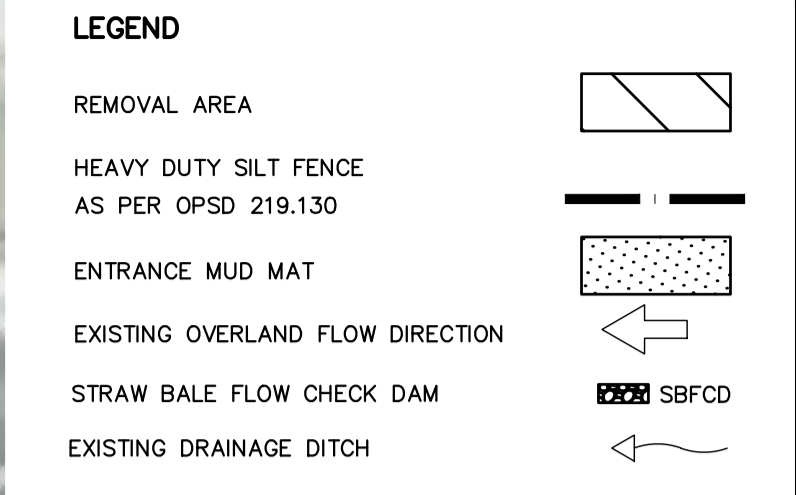
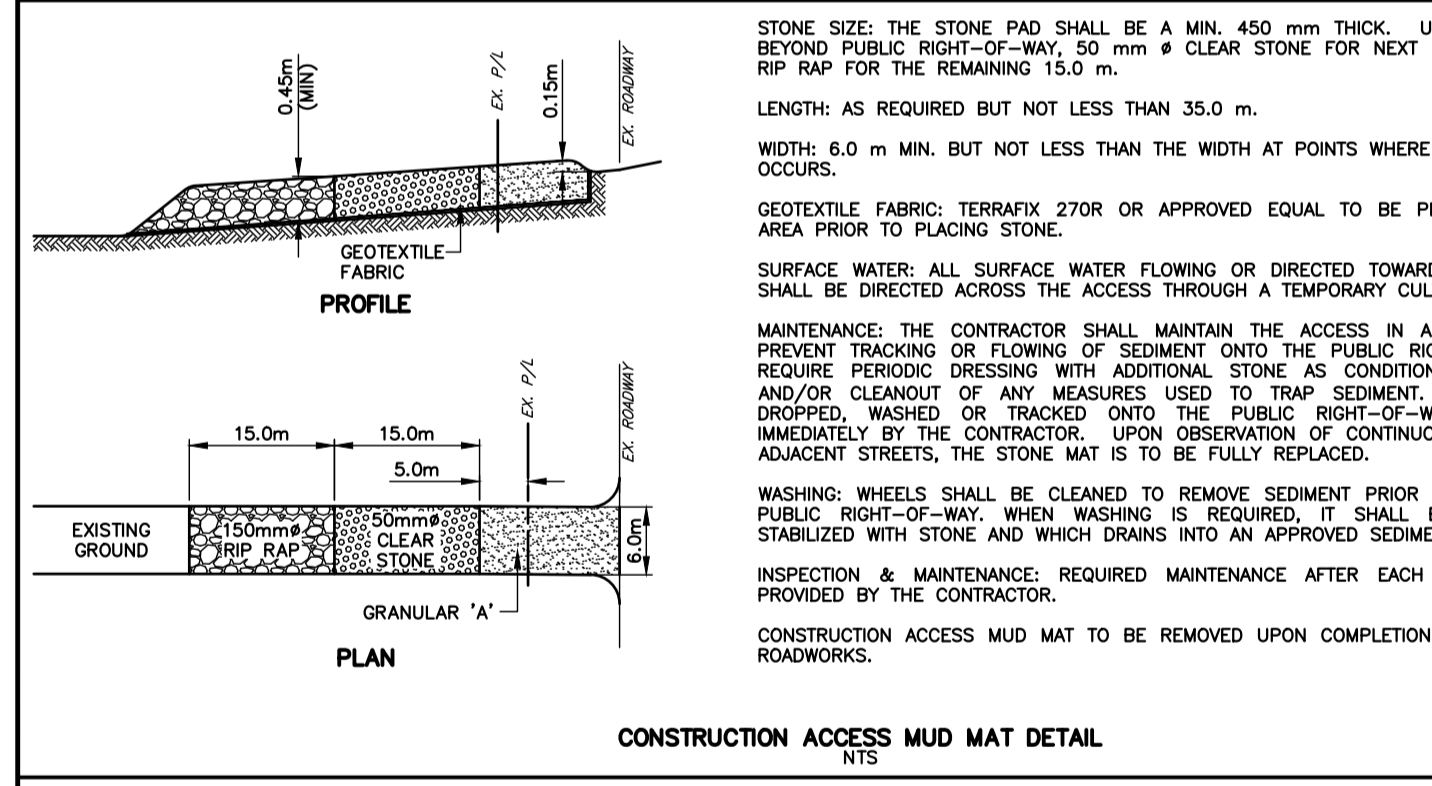


DISCLAIMER AND COPYRIGHT		BENCHMARKS		NOTES		No.		REVISION DESCRIPTION		DATE		ENGINEER STAMP		THE TERRAZZO TOWN OF COLLINGWOOD		TATHAM ENGINEERING		
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				3.	3RD SUBMISSION	MAR 2025	CHECK: MAB/KRS								SCALE: NTS			

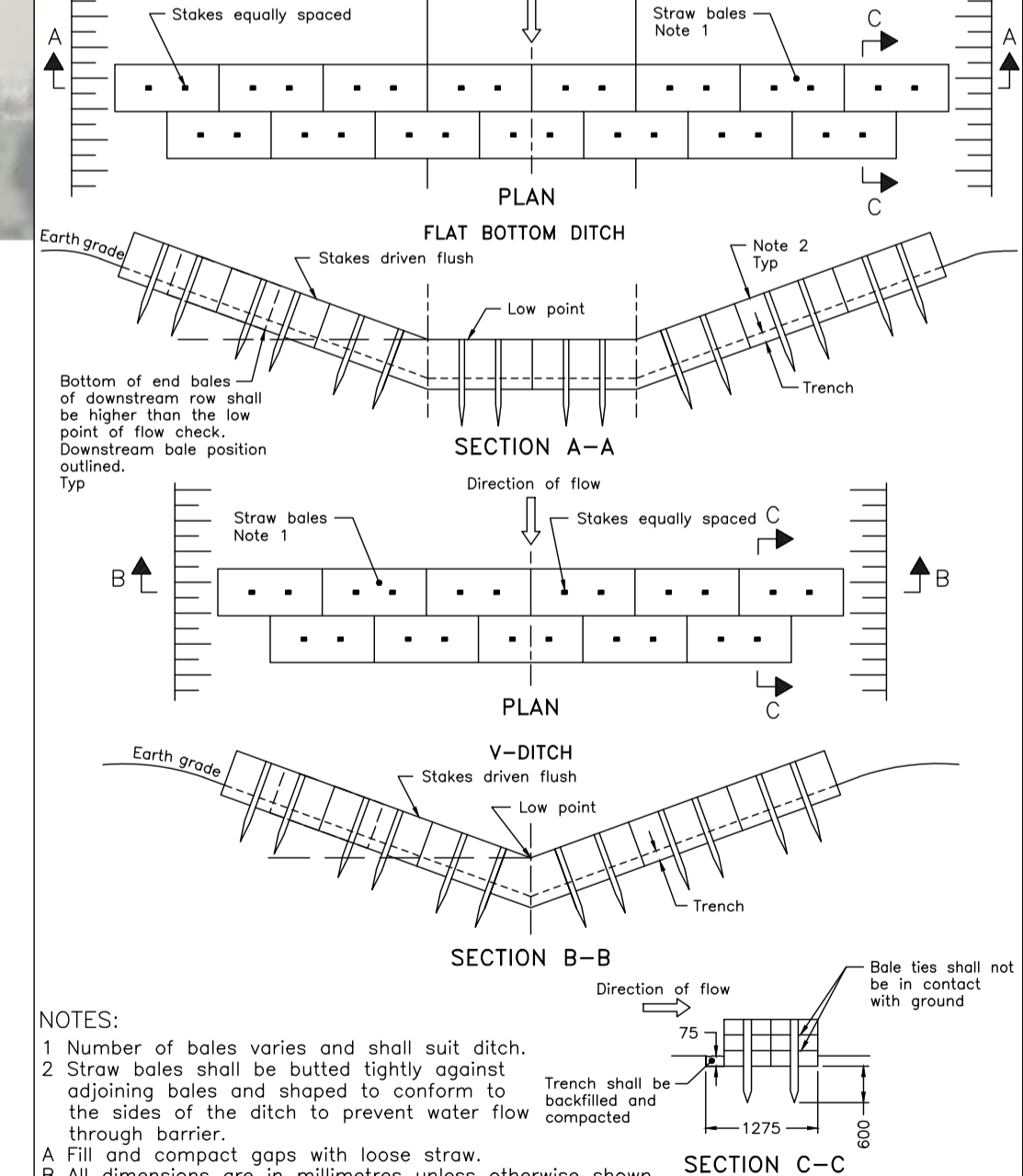


HAUL ROUTE NOTES

- 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.



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2021 Rev 3
HEAVY-DUTY SILT FENCE BARRIER
 OPSD 219.130



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2021 Rev 3
STRAW BALE FLOW CHECK DAM
 OPSD 219.180

SILTATION AND EROSION CONTROL NOTES

- ALL SILTATION AND EROSION CONTROL WORKS TO BE IN PLACE PRIOR TO CONSTRUCTION.
- CONTRACTOR TO INSTALL AND MAINTAIN SILTATION AND EROSION CONTROL WORKS AT LOCATIONS SHOWN OR AS DIRECTED BY THE ENGINEER IF ADDITIONAL CONTROLS ARE DEEMED NECESSARY.
- CONTRACTOR TO ARRANGE PRE-CONSTRUCTION MEETING WITH ENGINEER AFTER PLACING ALL SILTATION AND EROSION CONTROL WORKS.
- THE CONTRACTOR WILL INSPECT THE SILTATION AND EROSION CONTROL MEASURES WEEKLY AND AFTER EACH SIGNIFICANT (>15mm) STORM EVENT. THE CONTRACTOR WILL NOTIFY THE ENGINEER OF CORRECTIVE ACTIONS REQUIRED AS SOON AS DEFICIENCIES ARE NOTED. HOWEVER THE CONTRACTOR MAINTAINS ULTIMATE RESPONSIBILITY TO ENSURE PROPER SILTATION AND EROSION CONTROL MEASURES ARE IMPLEMENTED AND MAINTAINED. ALL DEFICIENCIES AND CORRECTIVE MEASURES WILL BE DOCUMENTED IN A WEEKLY INSPECTION REPORT. A COPY OF THE WEEKLY INSPECTION REPORT WILL BE PROVIDED TO THE ENGINEER.
- CONTRACTOR TO REMOVE SILTATION AND EROSION CONTROL WORKS ONLY AFTER ALL PAVING IS COMPLETED AND VEGETATION HAS TAKEN ROOT TO THE ENGINEER'S SATISFACTION.
- ALL CONSTRUCTION VEHICLES TO ACCESS THE SITE USING THE DESIGNATED CONSTRUCTION ACCESS.
- TEMPORARY STRAW BALE FLOW CHECK DAM TO OPSD 219.180.
- IF CONSTRUCTION IS INTERRUPTED AND/OR INACTIVITY EXCEEDS 30 DAYS, THEN STOCKPILED, STRIPPED OR EXPOSED AREAS MUST BE STABILIZED BY HYDRO SEEDING AND ANY OTHER APPROPRIATE GEOTEXTILE MATERIAL, IF REQUIRED.

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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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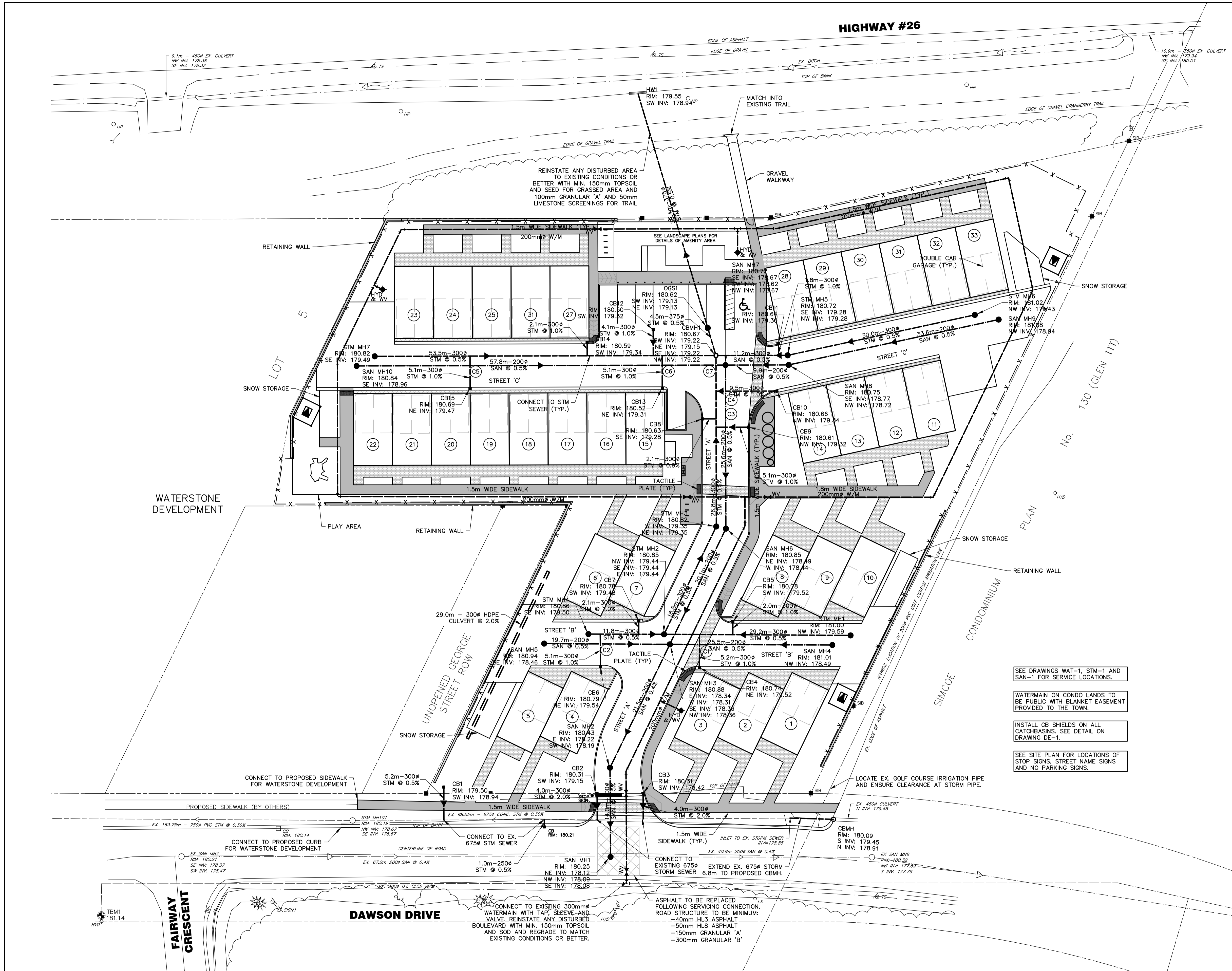
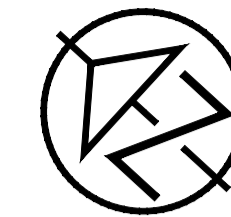
THE TERRAZZO TOWN OF COLLINGWOOD

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

HIGHWAY #26



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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 TOP NUT OF FIRE HYDRANT LOCATED AT NORTHWEST CORNER OF DAWSON DRIVE AND FAIRWAY CRESCENT SOUTH INTERSECTION.

NOTES
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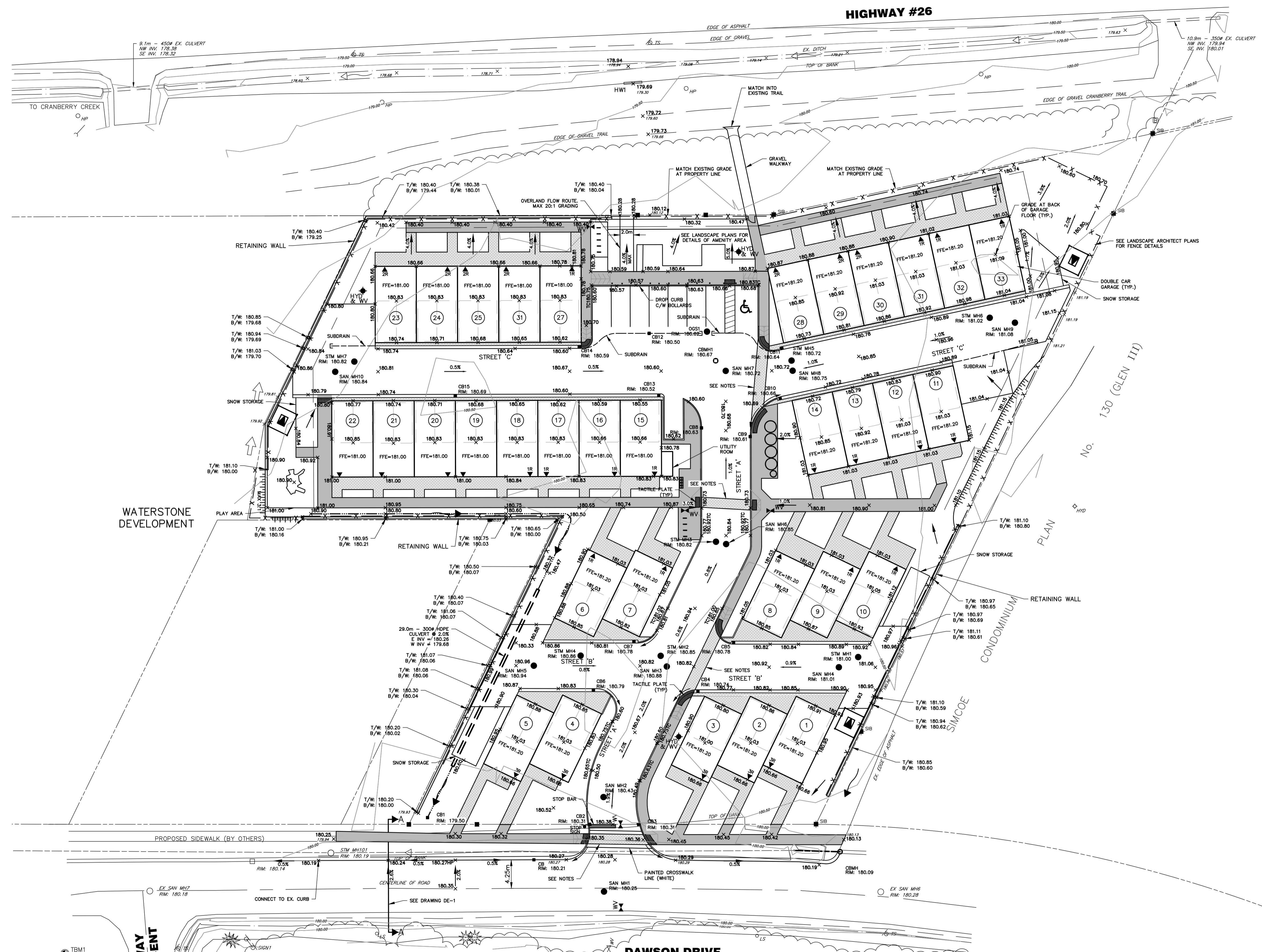
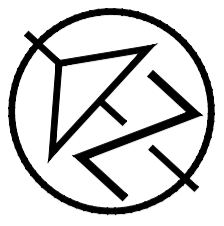
ENGINEER STAMP

 K. R. SANSON
 12927
 PROVINCE OF ONTARIO

THE TERRAZZO
 TOWN OF COLLINGWOOD
GENERAL SERVICING PLAN

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

HIGHWAY #26



- NOTES**
- 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).
 - SEE LANDSCAPE ARCHITECT PLANS FOR PAVING STONE COLOUR, TYPE AND PATTERN.

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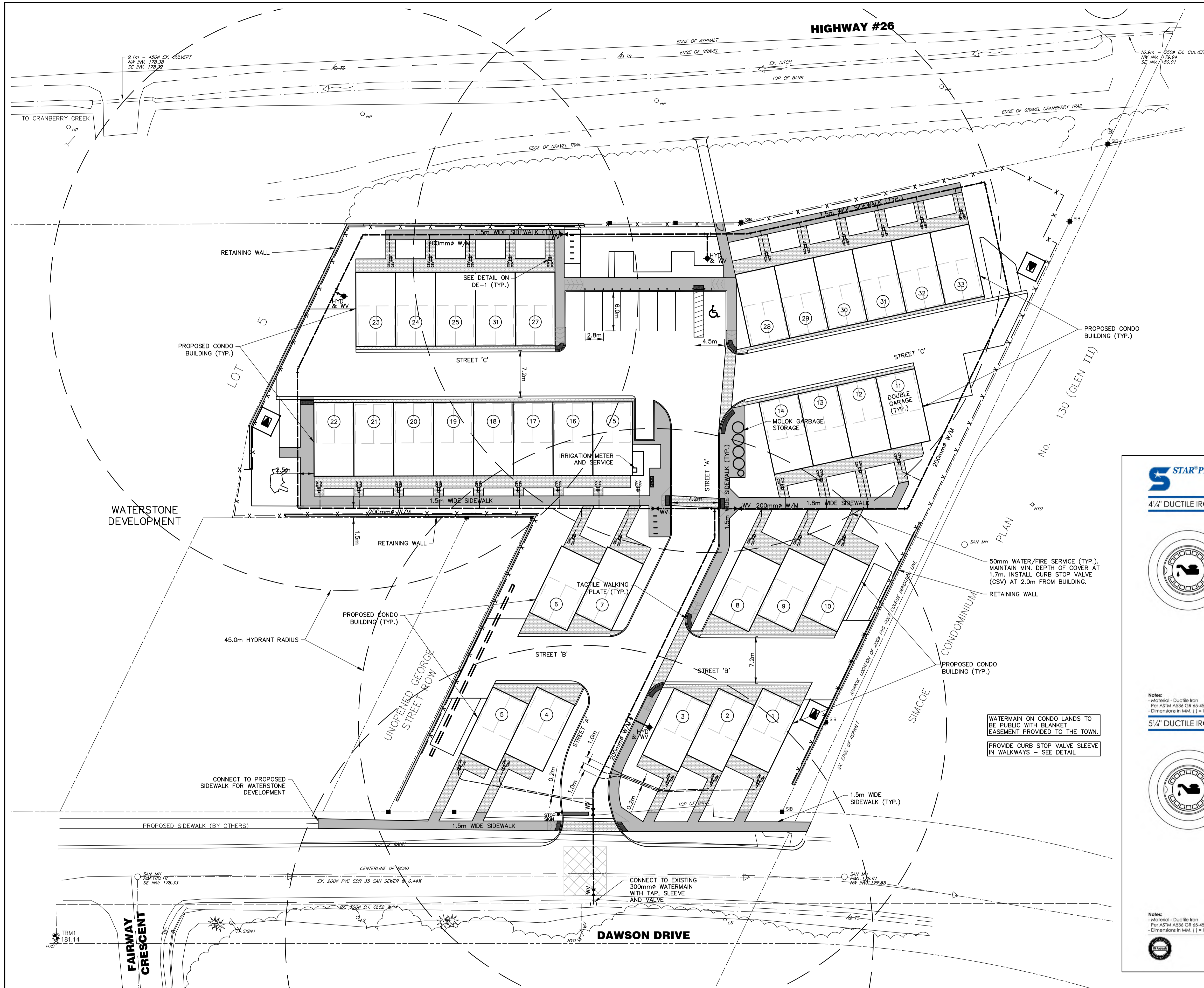
ENGINEER STAMP

THE TERRAZZO TOWN OF COLLINGWOOD

SITE GRADING PLAN

TATHAM ENGINEERING

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



STAR PIPE CANADA, INC. Municipal & Construction Castings
VALVE BOXES

TABLE OF CONTENTS

4" DUCTILE IRON ADJUSTABLE PLOW VALVE BOX VB-5009

ITEM CODE	DETAILS
VB41AAP	COMPLETE
VB41AAP-27	COMPLETE
VB41AAPL	LID
VB41AAP1	12" TOP
VB41AAP1-27	27" TOP

5" DUCTILE IRON ADJUSTABLE PLOW VALVE BOX VB-5010

ITEM CODE	DETAILS
VB51AAPL	LID
VB51AAP1	12" TOP

Notes:
 - Material - Ductile Iron
 - Per ASTM A536 GR 45-45-12
 - Dimensions in MM, () = inches

Notes:
 - Material - Ductile Iron
 - Per ASTM A536 GR 45-45-12
 - Dimensions in MM, () = inches

50mm WATER/FIRE SERVICE (TYP.). MAINTAIN MIN. DEPTH OF COVER AT 1.7m. INSTALL CURB STOP VALVE (CSV) AT 2.0m FROM BUILDING.

RETAINING WALL

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

PROVIDE CURB STOP VALVE SLEEVE IN WALKWAYS - SEE DETAIL.

VB - 10

CURB STOP VALVE IN PAVING STONE WALKWAY DETAIL

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BENCHMARKS
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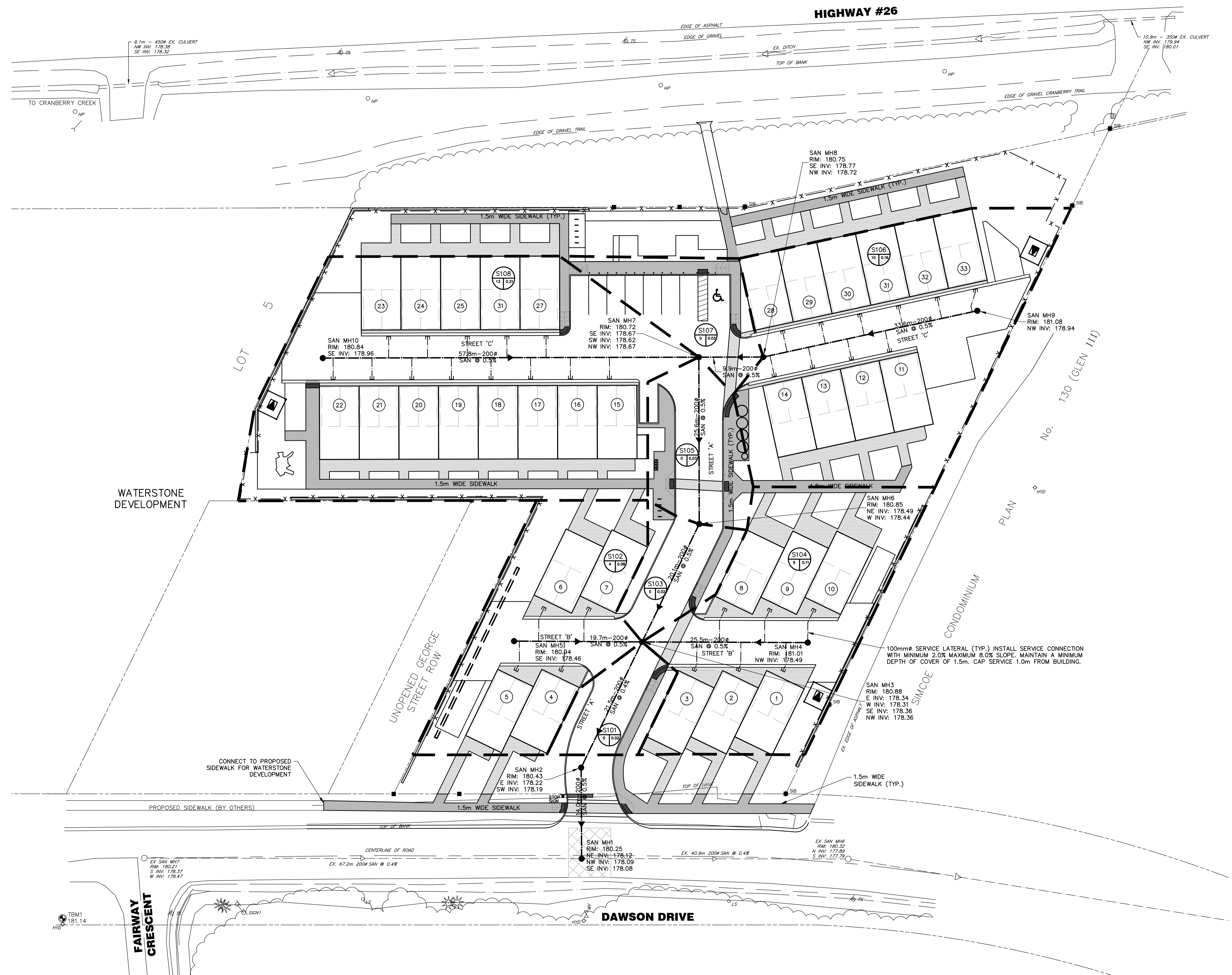
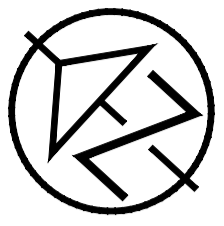
THE TERRAZZO
 TOWN OF COLLINGWOOD

WATER DISTRIBUTION PLAN

TATHAM ENGINEERING

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

HIGHWAY #26



LEGEND	
	A - CATCHMENT ID LABEL B - NUMBER OF UNITS C - DRAINAGE AREA (ha)
	DRAINAGE BOUNDARY

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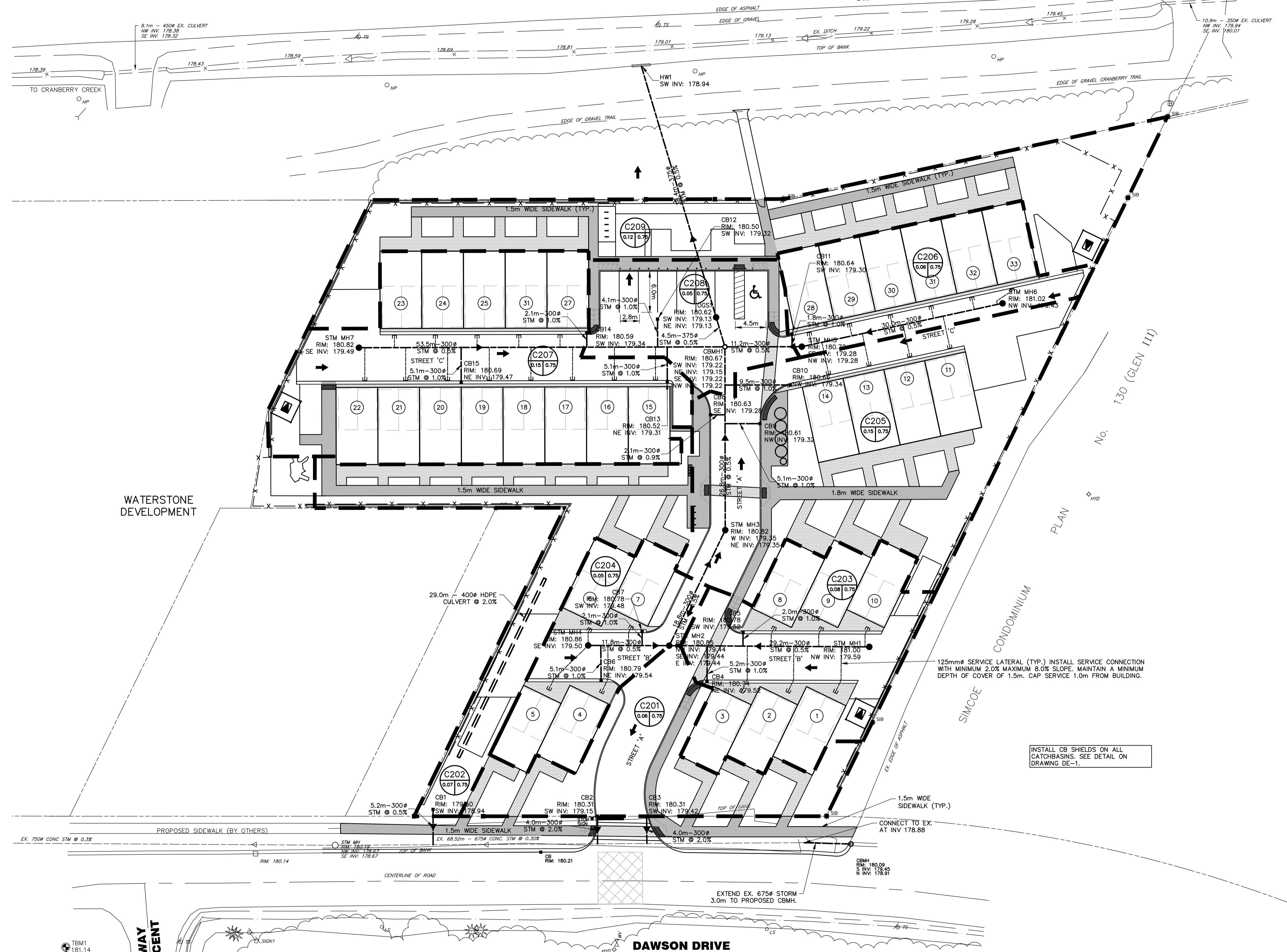
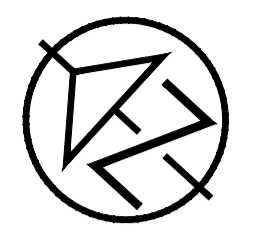


THE TERRAZZO
 TOWN OF COLLINGWOOD
SANITARY DRAINAGE PLAN

TATHAM ENGINEERING

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

HIGHWAY #26



LEGEND

- ➔ PROPOSED OVERLAND FLOW DIRECTION
- ⊙ A - CATCHMENT ID LABEL
- ⊙ B - DRAINAGE AREA (ha)
- ⊙ C - RUNOFF COEFFICIENT
- LOCAL DRAINAGE BOUNDARY

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

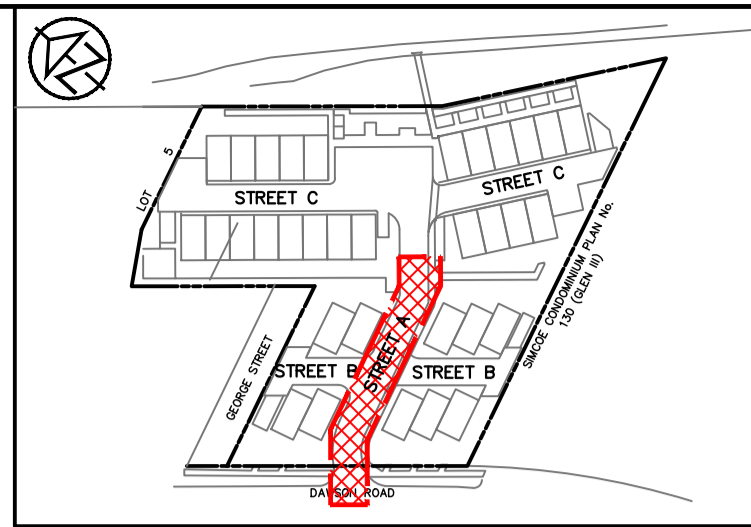
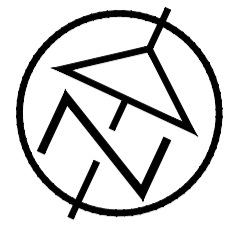
No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	1ST SUBMISSION	OCT 2022	
2.	2ND SUBMISSION	JUN 2024	
3.	3RD SUBMISSION	MAR 2025	

THE TERRAZZO TOWN OF COLLINGWOOD

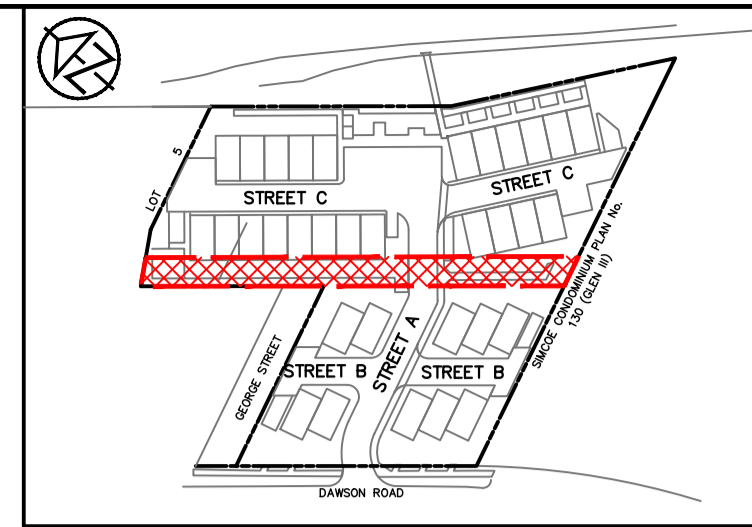
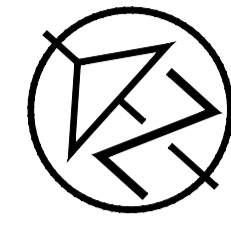
STORM DRAINAGE PLAN

TATHAM ENGINEERING

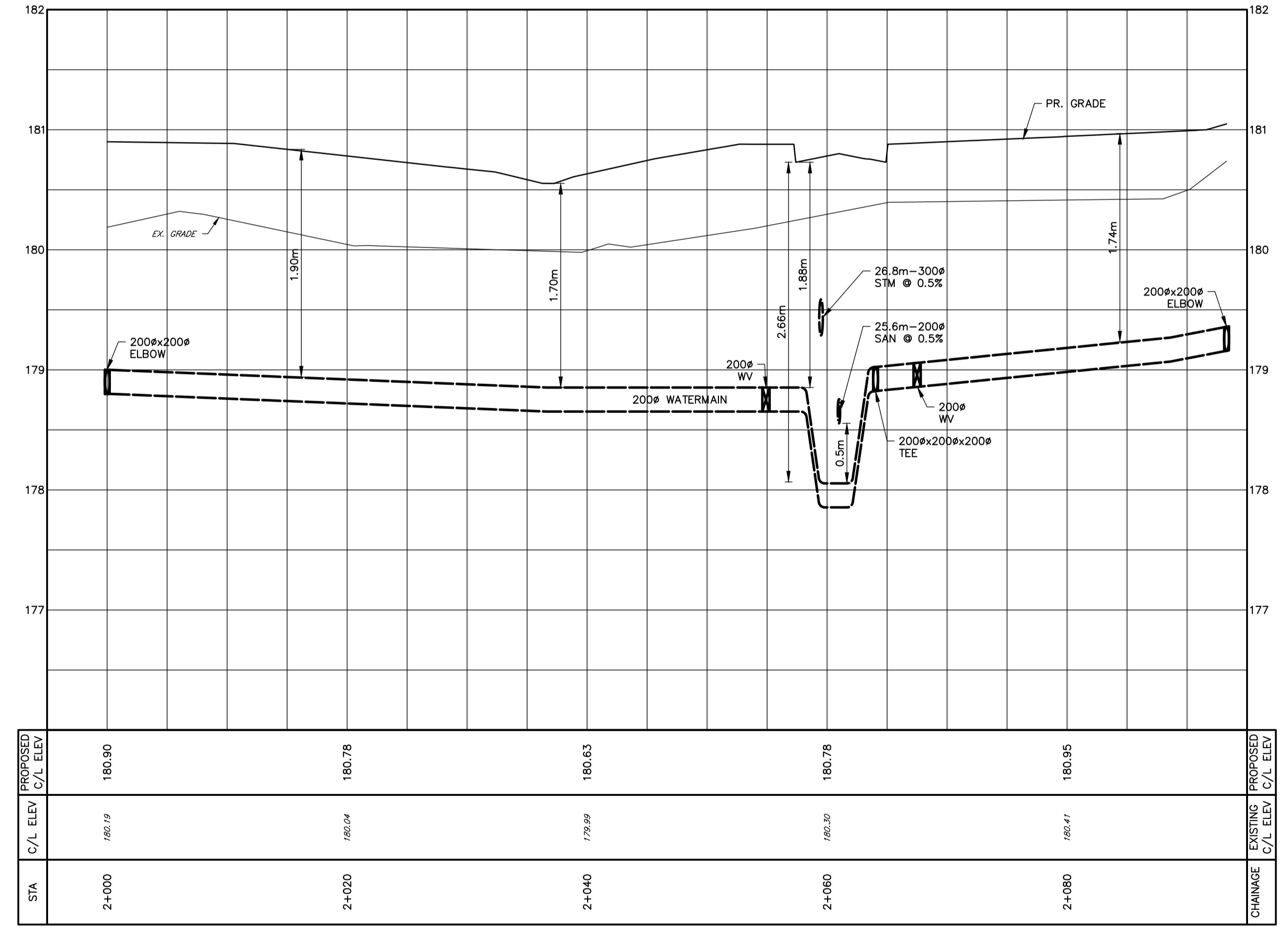
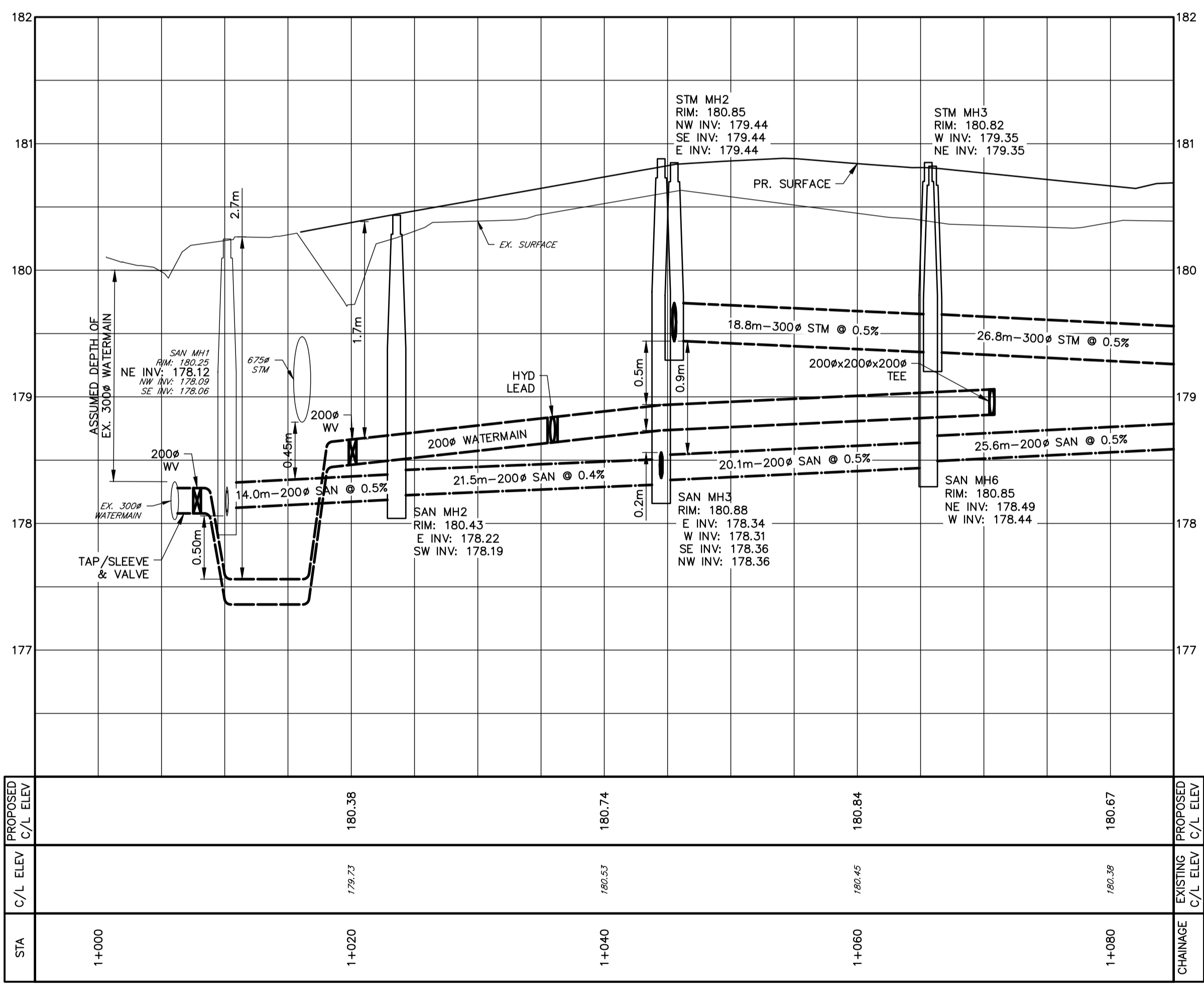
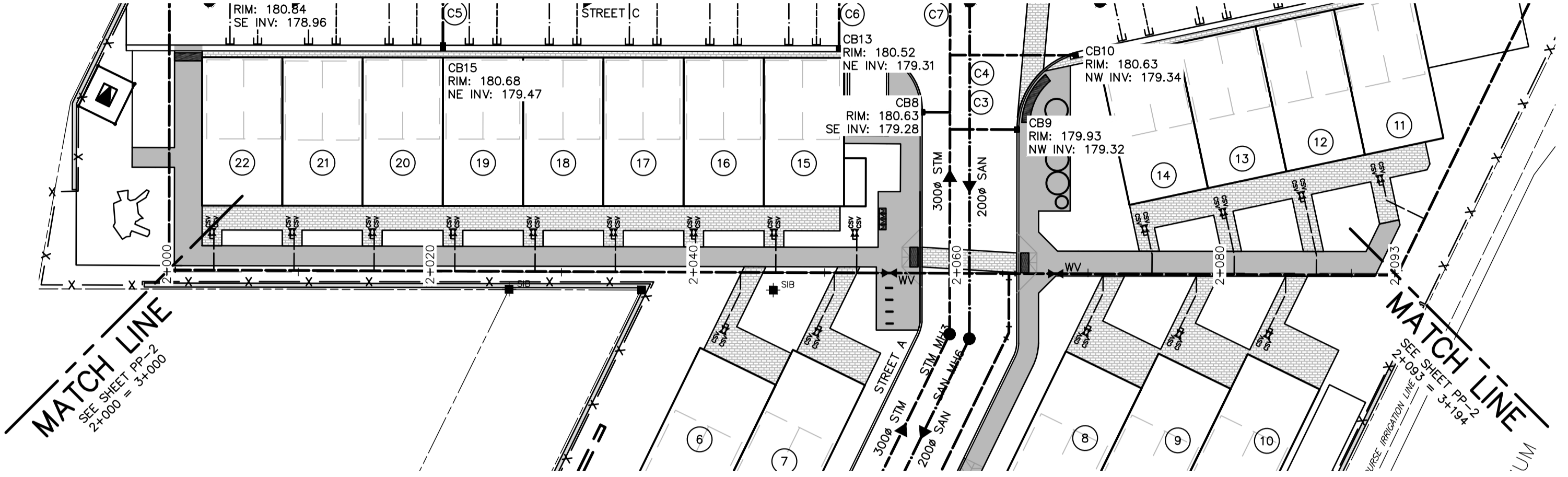
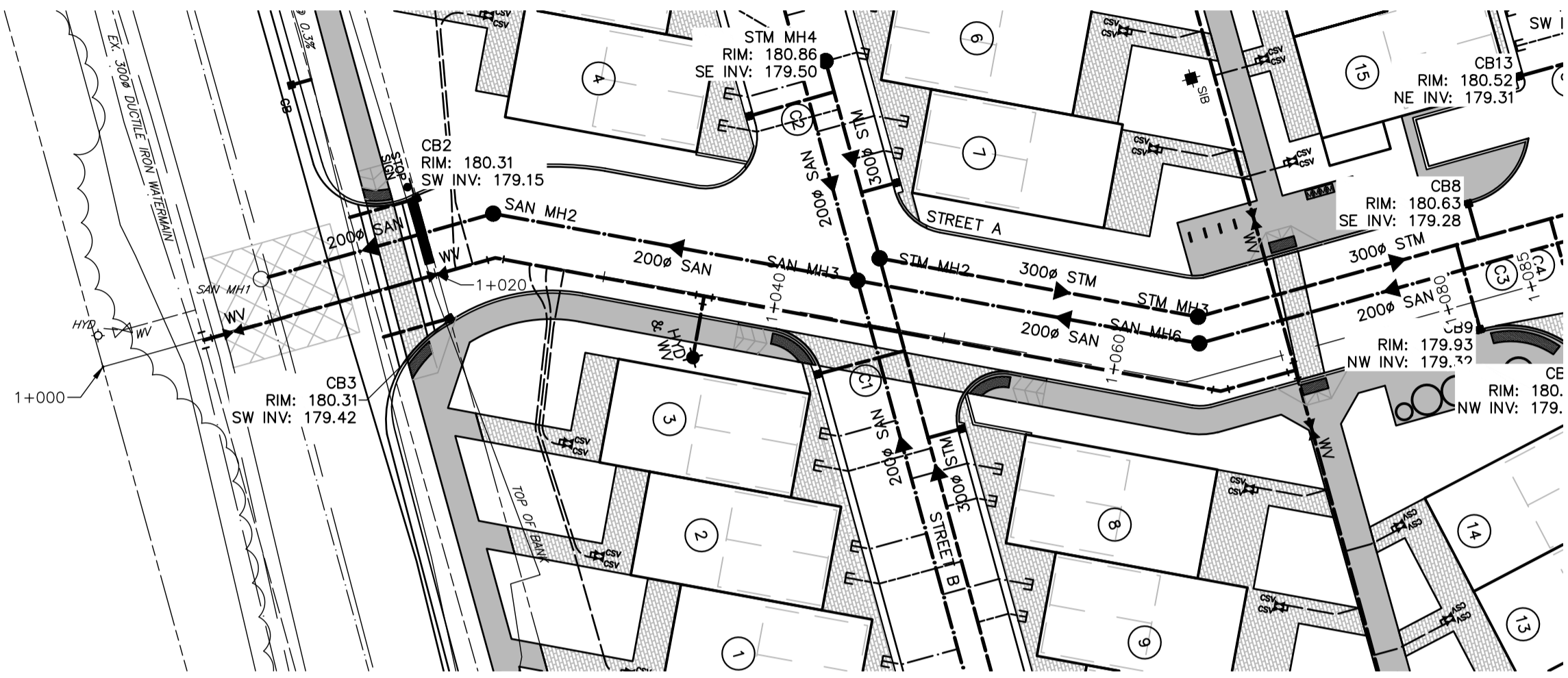
DESIGN: AVN/MAB FILE: 121075 DWG:
 DRAWN: AVN/KRL DATE: DEC 2021 **STM-1**
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KEY PLAN



KEY PLAN



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.

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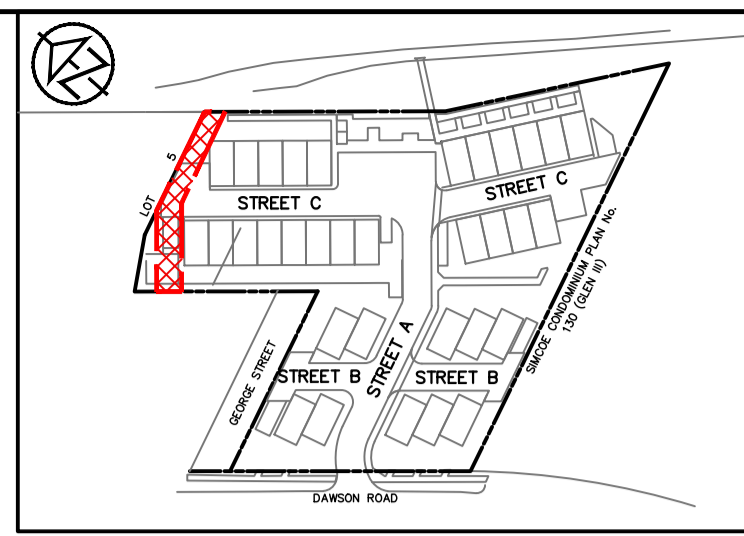
No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP
1.	3RD SUBMISSION	MAR 2025	



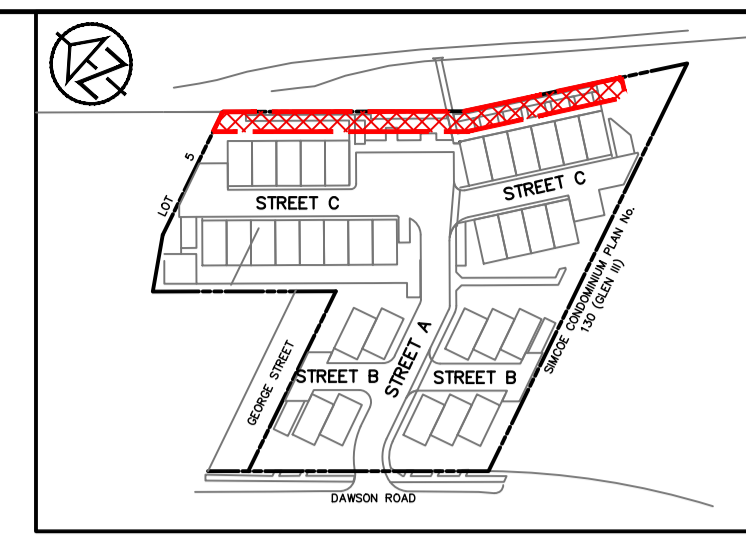
THE TERRAZZO
 TOWN OF COLLINGWOOD
PLAN & PROFILE
 STA. 1+000 TO STA. 1+085
 STA. 2+000 TO STA. 2+095

TATHAM ENGINEERING

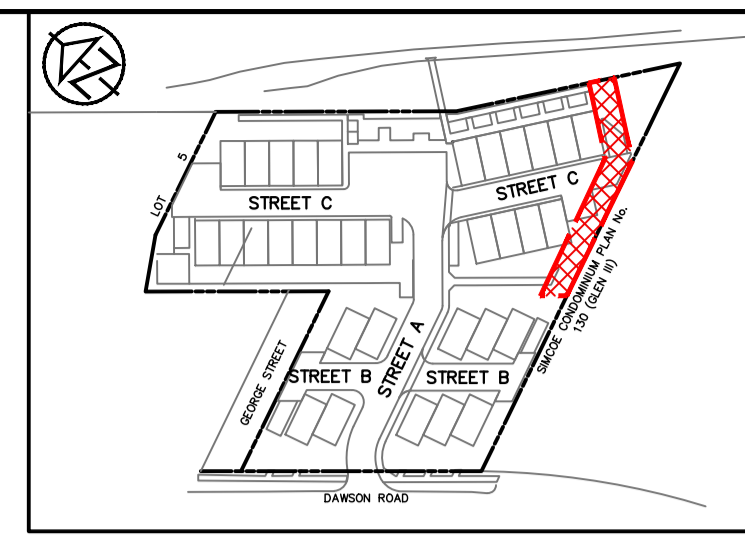
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DRAWN: DMS/KRL	DATE: JAN 2025	PP-1
CHECK: KRS	SCALE: 1:300H 1:30V	



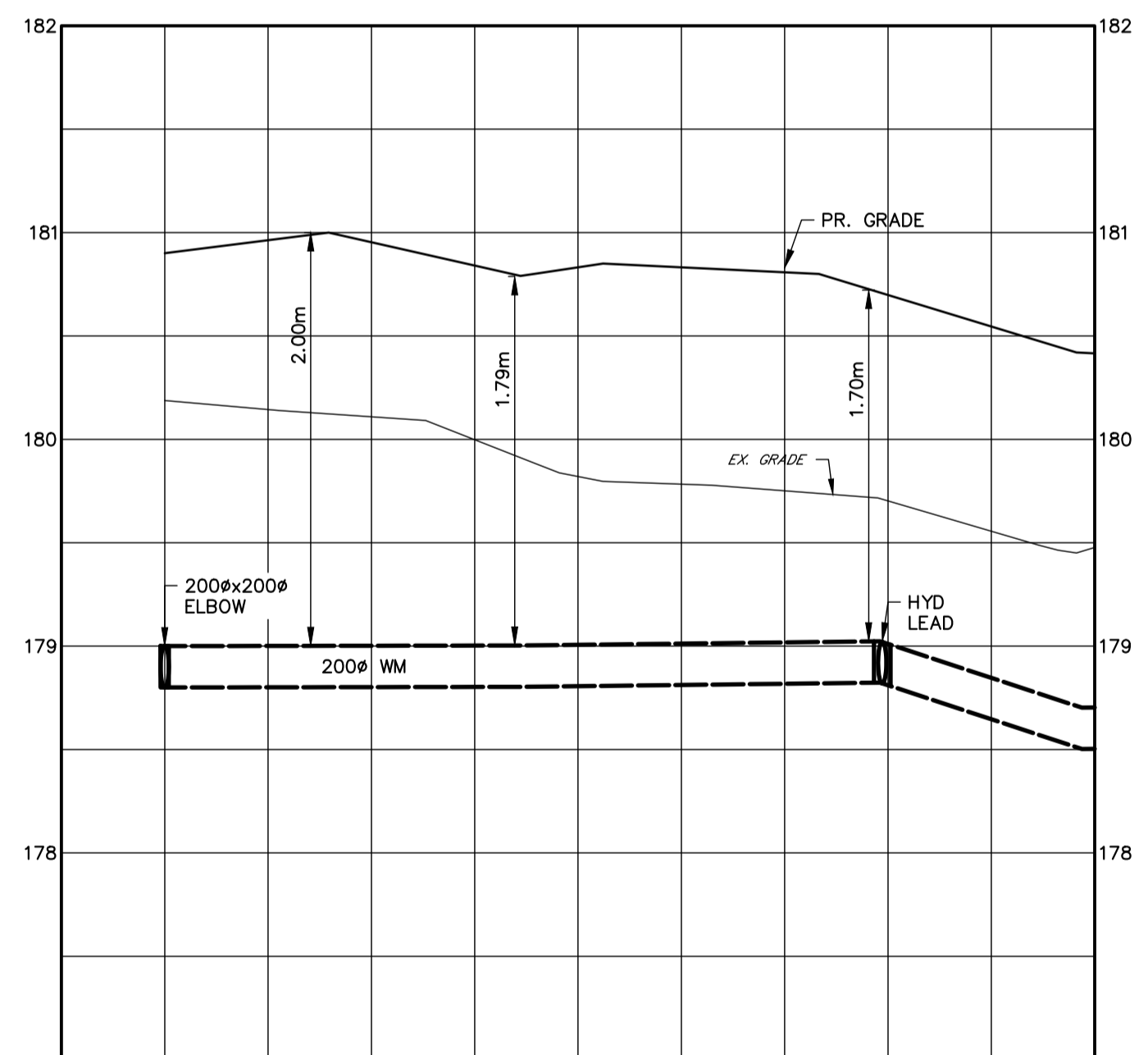
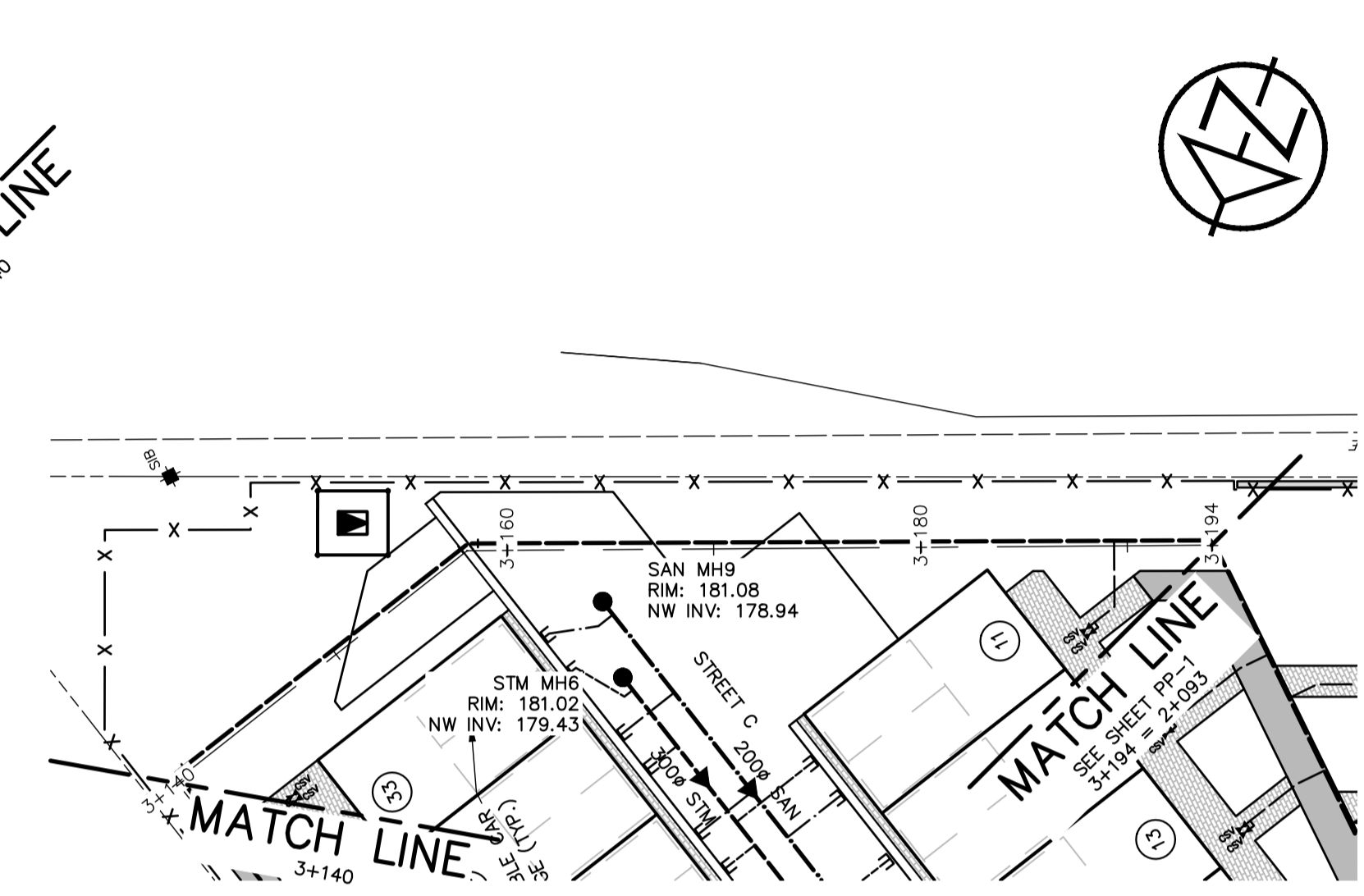
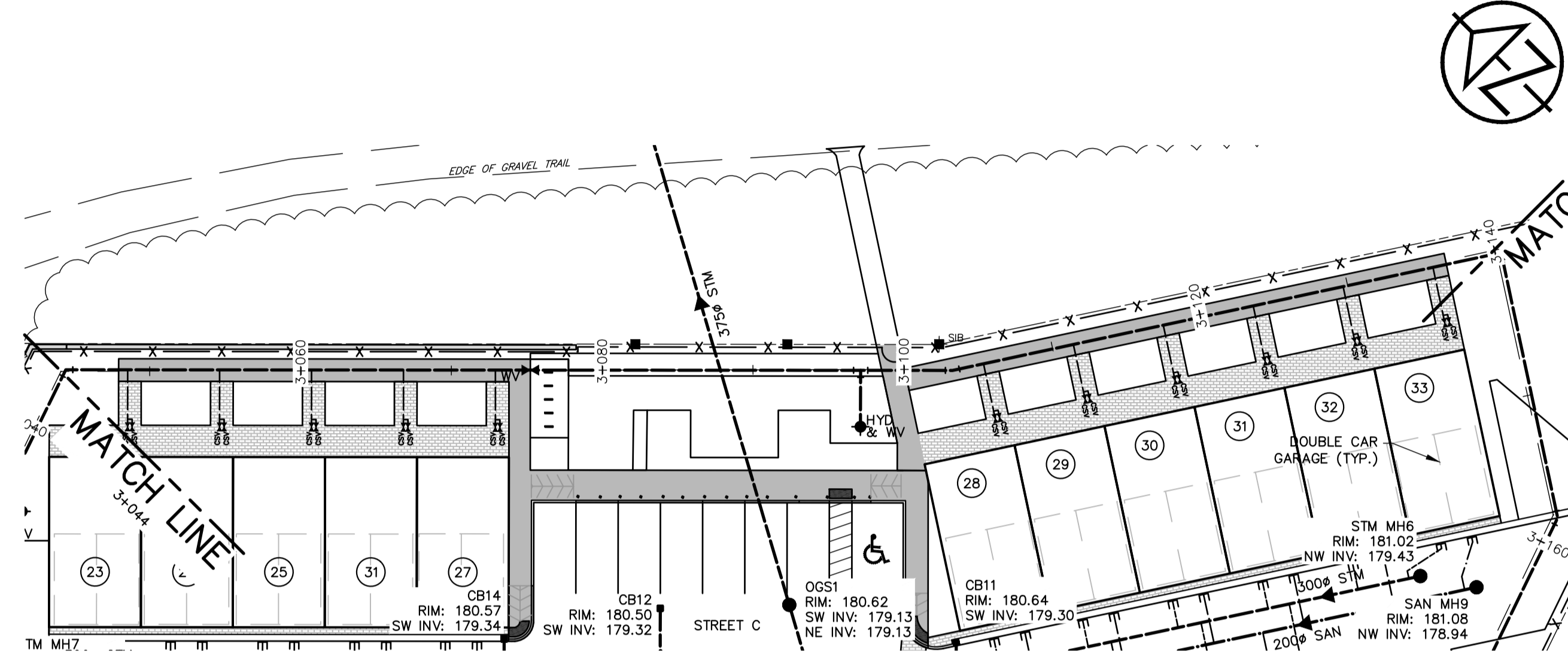
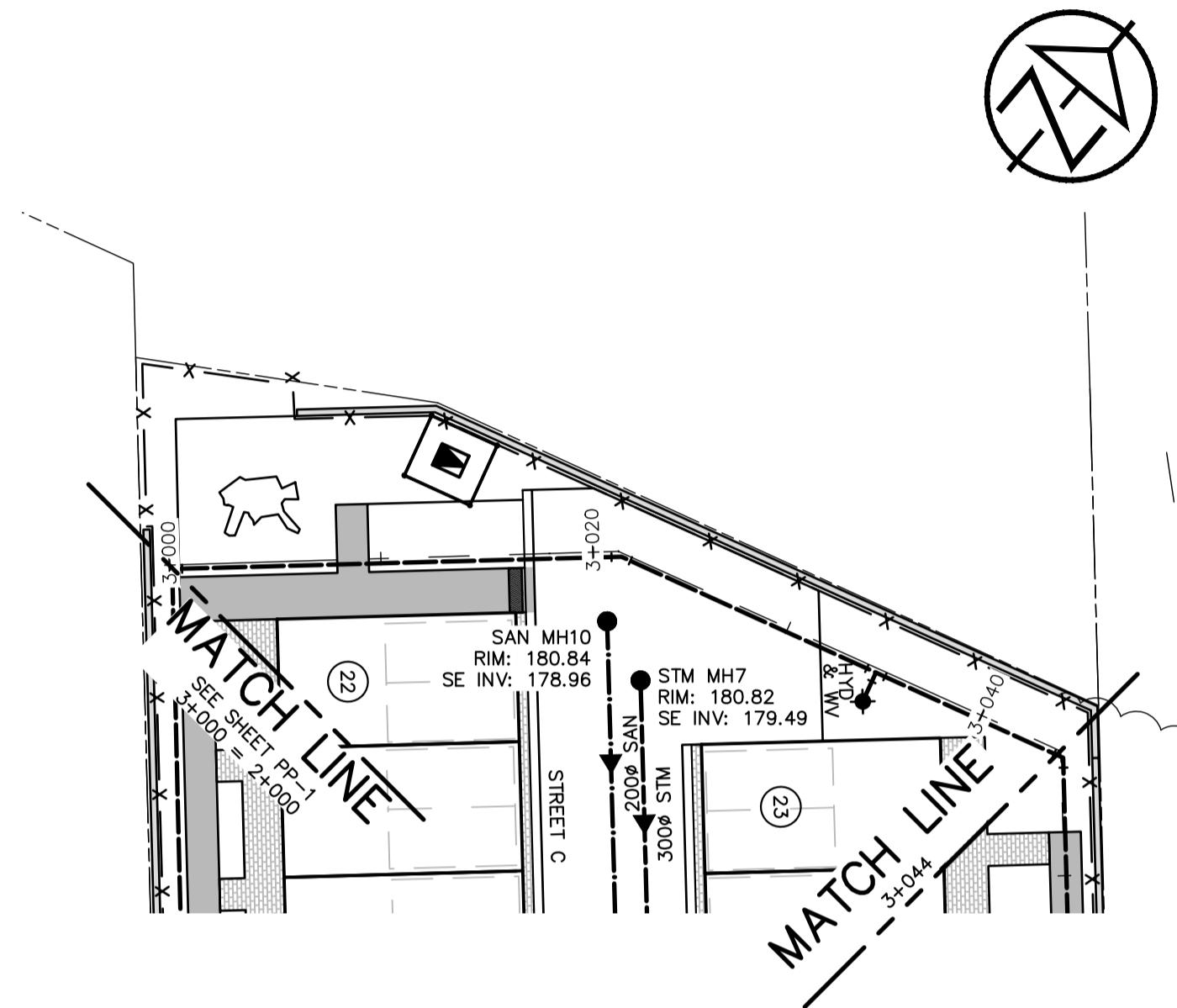
KEY PLAN



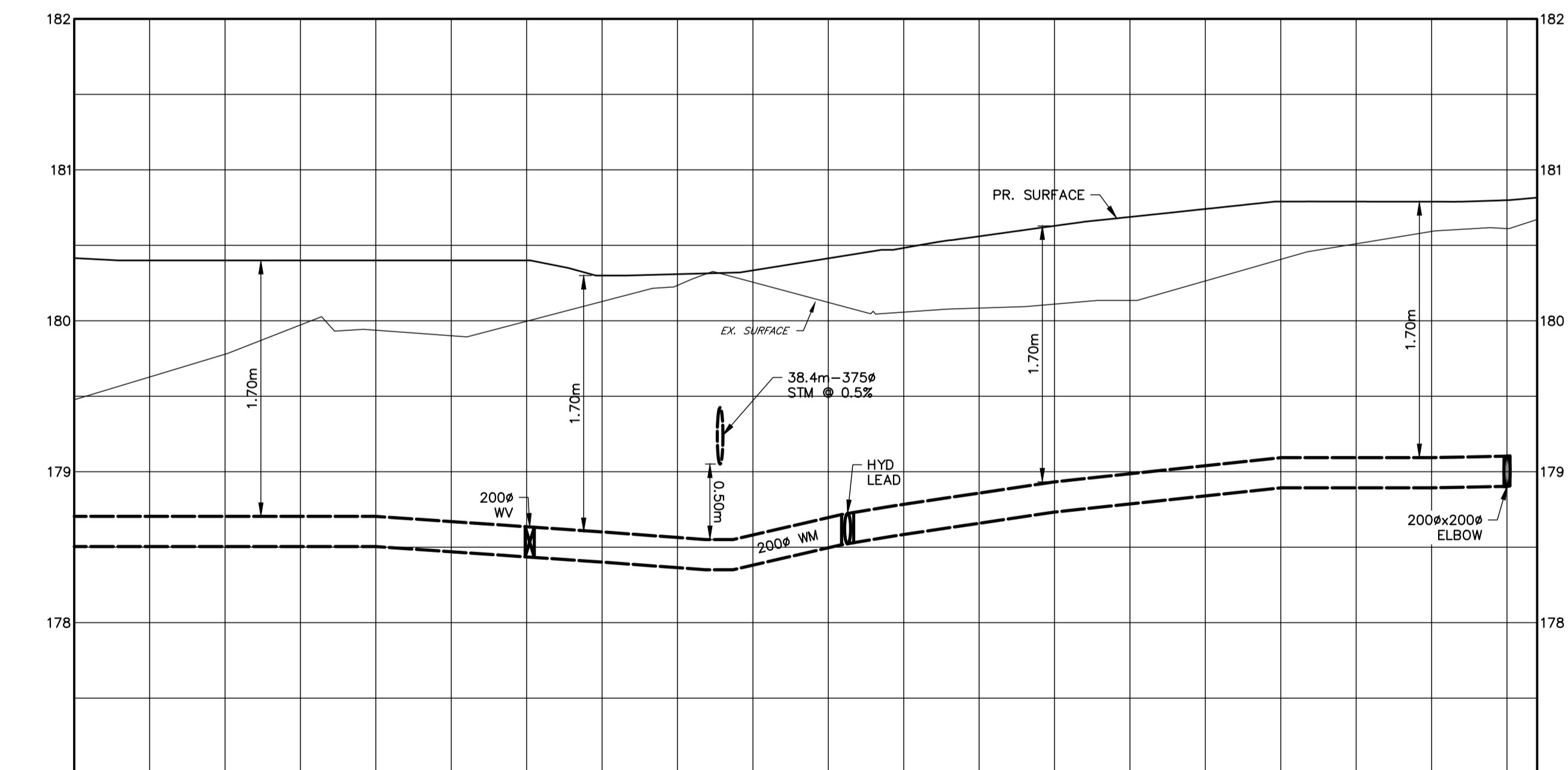
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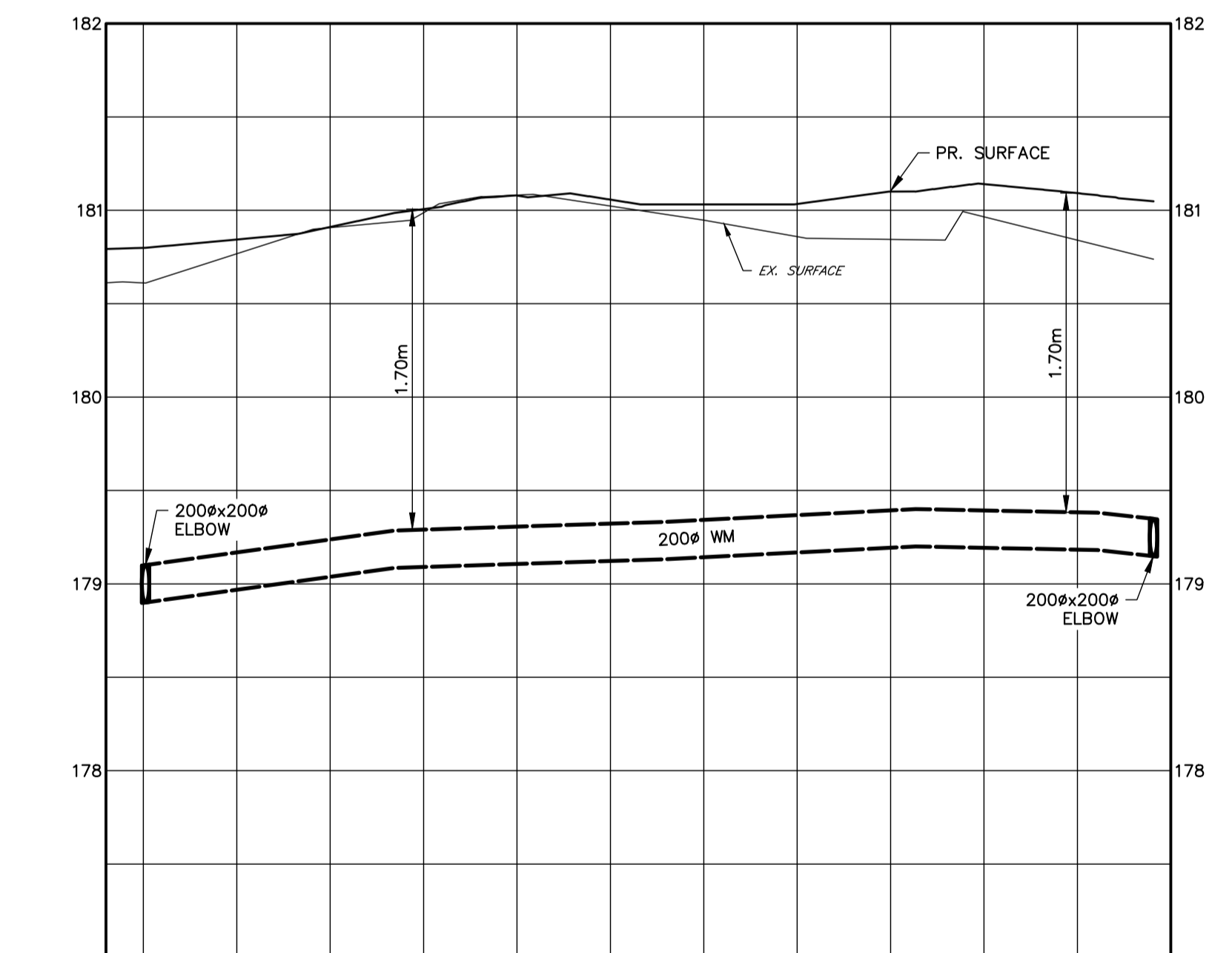
KEY PLAN



PROPOSED C/L ELEV	180.90	180.83	180.55
C/L ELEV	180.19	179.82	179.56
STA	3+000	3+020	3+040
CHANGING			
EXISTING C/L ELEV			
PROPOSED C/L ELEV			



PROPOSED C/L ELEV	180.40	180.30	180.48	180.74	180.80
C/L ELEV	179.97	180.13	180.06	180.26	180.61
STA	3+060	3+080	3+100	3+120	3+140
CHANGING					
EXISTING C/L ELEV					
PROPOSED C/L ELEV					



PROPOSED C/L ELEV	180.80	181.08	181.10
C/L ELEV	180.61	181.08	180.64
STA	3+140	3+160	3+180
CHANGING			
EXISTING C/L ELEV			
PROPOSED C/L ELEV			

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

ENGINEER STAMP

THE TERRAZZO
 TOWN OF COLLINGWOOD
 PLAN & PROFILE
 STA. 3+000 TO STA. 3+195

TATHAM ENGINEERING
 DESIGN: MAB FILE: 121075 DWG:
 DRAWN: DMS/KRL DATE: JAN 2025 **PP-2**
 CHECK: KRS SCALE: 1:300H
 1:30V

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) DEWATERING TO BE CARRIED OUT 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 OPSS-802.010 WITH GRANULAR 'A' EMBEDMENT. RIGID PIPE TO OPSS-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 OPSS 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 OPSS 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 OPSS-405.010.
- C) FROST STRAPS TO BE INSTALLED TO 701.100.
- D) FRAMES AND COVERS TO OPSS-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 OPSS 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 OPSS-1006.010 WITH GRANULAR 'A' EMBEDMENT. RADIUS BENDS AS REQUIRED.

4. STORM SEWER

- A) CATCH BASIN MAINTENANCE HOLES (CBMH) TO OPSS-701.010, 701.030, 704.010 C/W SUMPS UNLESS NOTED OTHERWISE.
- B) CATCH BASINS TO OPSS-705.010 AND TO BE COMPLETE WITH 600x600 mm CB SHIELD INSERT (SEE DETAILS).
- C) CATCH BASIN AND CATCH BASIN MAINTENANCE HOLE GRATES TO OPSS 400.120
- D) PIPE SUPPORT AT CATCH BASIN AND CATCH BASIN MAINTENANCE HOLE TO OPSS 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 OPSS-1006.010 WITH GRANULAR 'A' EMBEDMENT. RADIUS BENDS AS REQUIRED.
- G) PROTECTION DURING CONSTRUCTION TO OPSS-808.010.
- H) CONNECT ROAD SUB-DRAINS TO STRUCTURES TO OPSS 216.021.
- I) OGS - STORMCEPTOR EF6 OR APPROVED EQUAL.

5. WATER MAIN

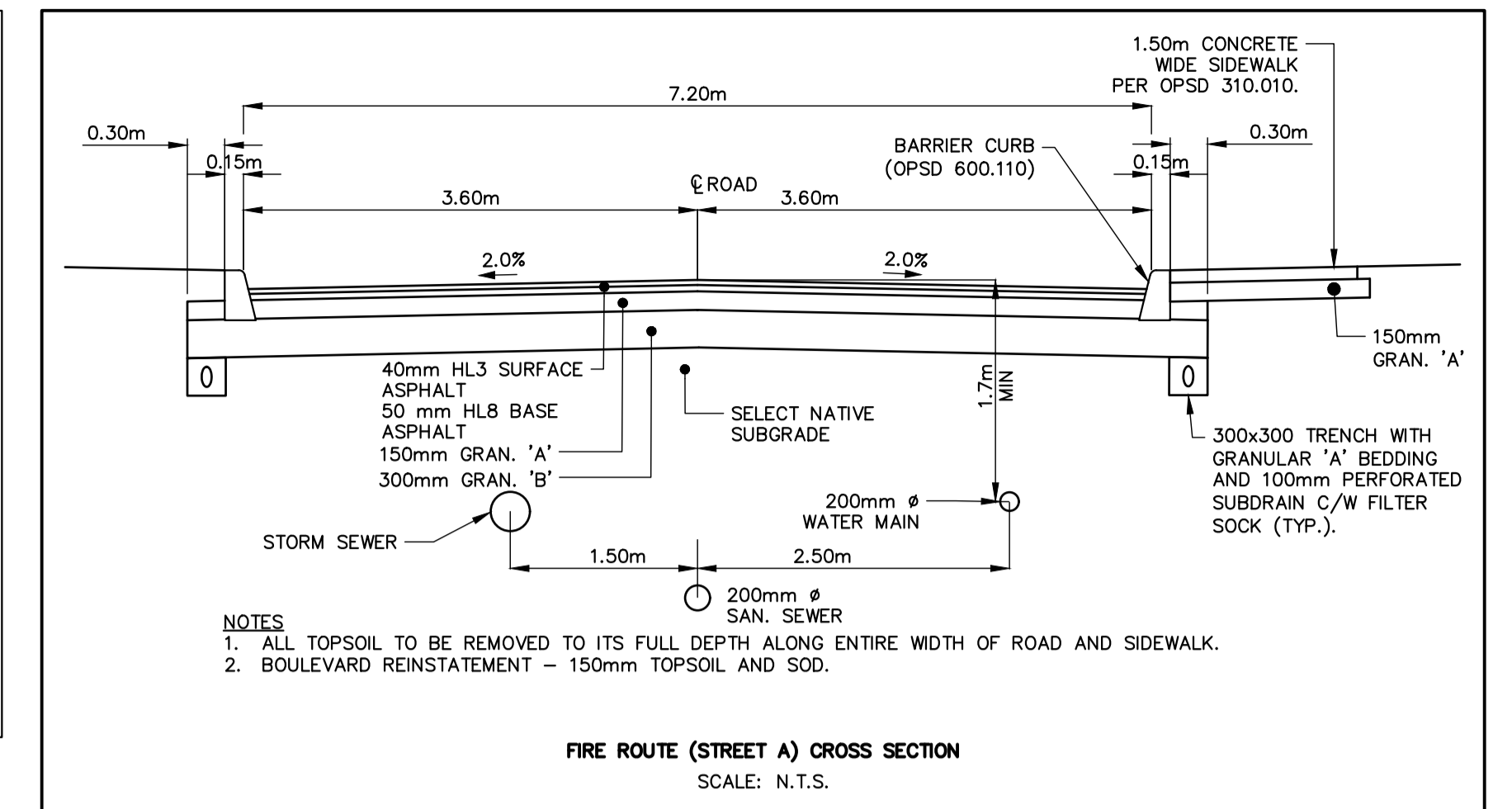
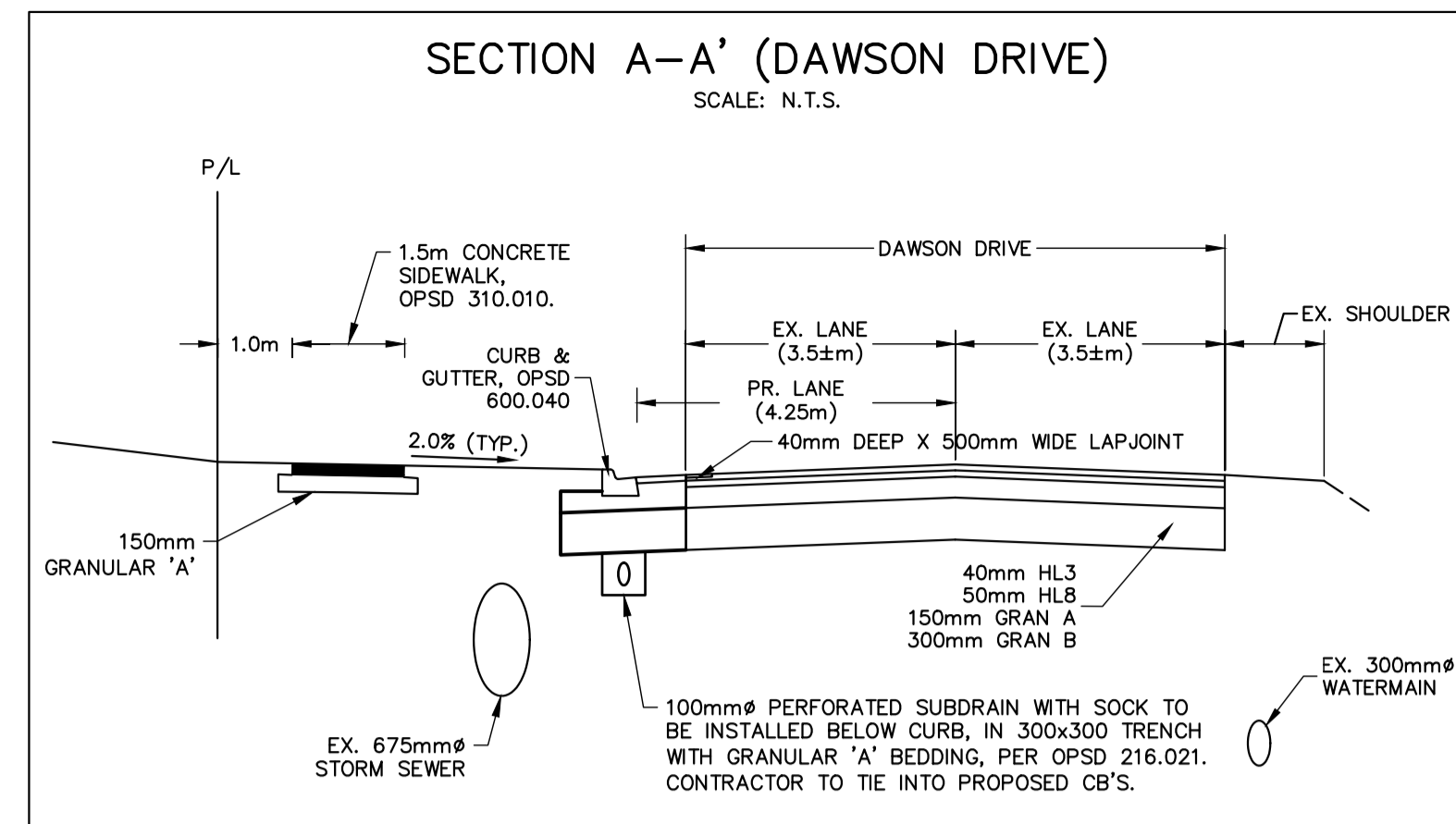
- A) THRUST PROTECTION FOR BENDS AND FITTINGS TO BE RESTRAINER CLAMPS (AS APPROVED) AND THRUST BLOCKS WHERE RESTRAINING CLAMPS CANNOT BE USED (OR AS OTHERWISE SPECIFIED) TO OPSS-1103.010 AND 1103.020.
- B) CONNECTION TO THE EXISTING WATER MAIN AND ANY TEMPORARY CONNECTION MUST BE UNDERTAKEN BY AN APPROVED CONTRACTOR WITH THE TOWN'S WATER DEPARTMENT AND BE 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 OPSS 1105.010, INSTALLED TO TOWN STANDARDS INCLUDING MARKERS.
- G) SERVICE CONNECTIONS TO OPSS 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 OPSS 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 RESTRAINTS - ROMAC GRIP RING FOR JOINT RESTRAINTS, ROMAC 600 SERIES FOR BELL RESTRAINTS.
- G) WATER MAIN SERVICES - 50mm-PEX BLUE 904 PEX PIPING, MAIN STOPS 301 NL-44H4 (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 1/2" TO 1", 24" BLACK RODS STRAIGHT, NUMBER 7 D-2 CLOW OR MUELLER 1/2" TO 2" 35" BLACK RODS STRAIGHT.
- H) HYDRANTS - CANADA VALVE, CENTURY No. 1 OPEN LEFT WITH 2 CSA HOSE PORTS, ONE 3/8 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, 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 SERVICE - 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 OPSS 810.010. FROST TREATMENT FOR ENTRANCE CULVERT TO OPSS 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 OPSS 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.

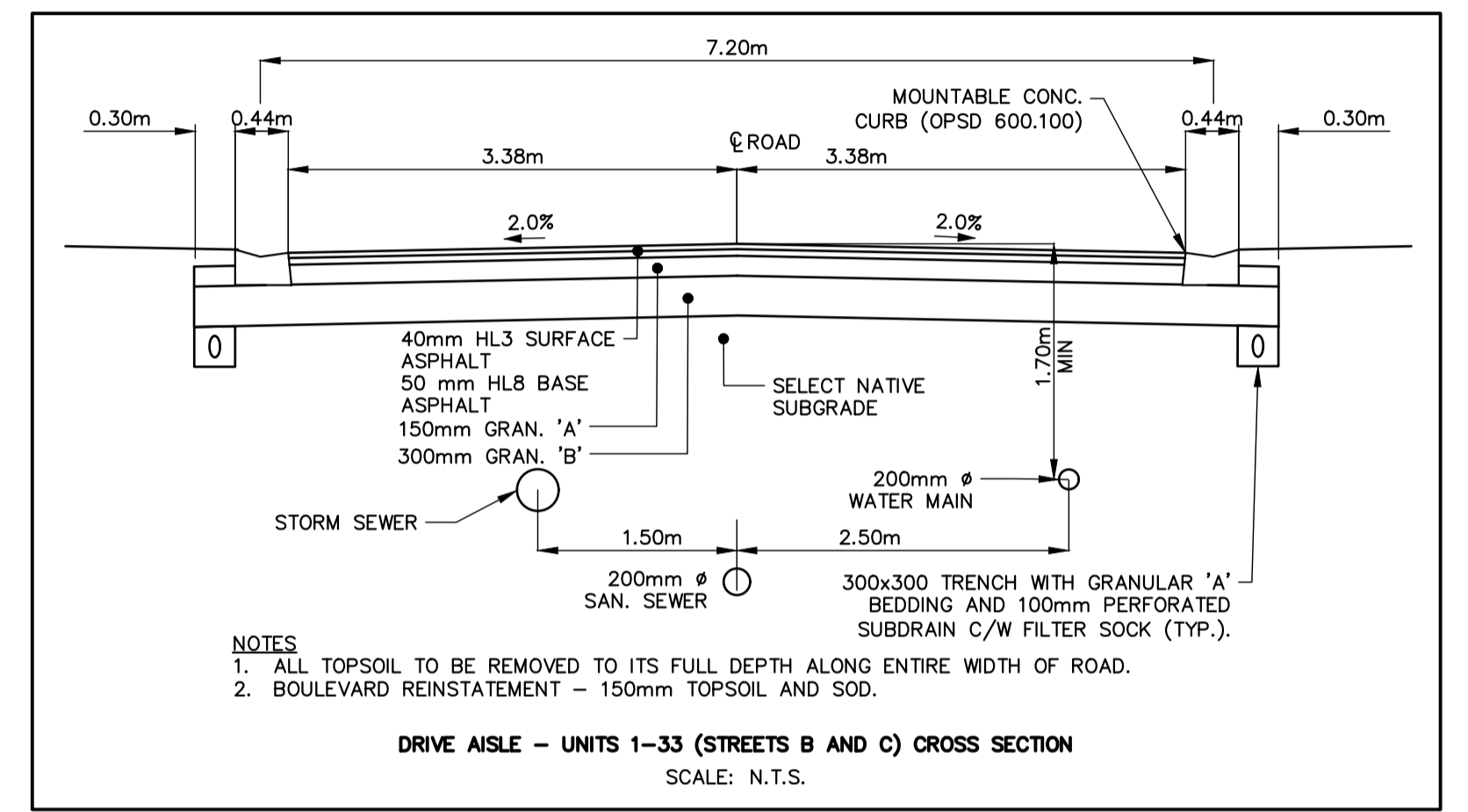
7. CONCRETE RETAINING WALL & FENCING

- A) CONSTRUCT RETAINING WALLS IN ACCORDANCE TO ENGINEERING DRAWINGS BY A-D ENGINEERING GROUP LTD., STAMPED JANUARY 16, 2025 - REV.1 (JAN 16, 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.

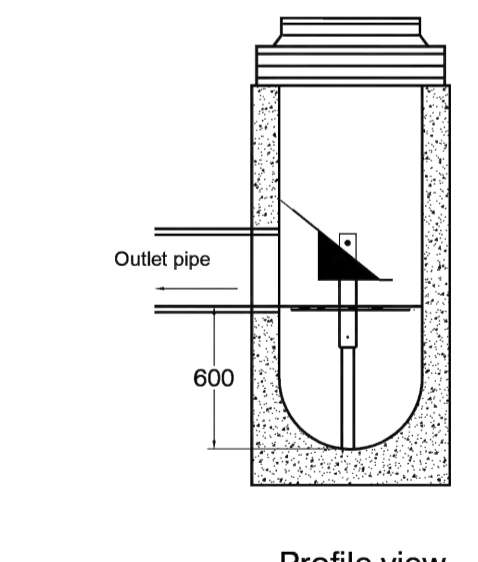
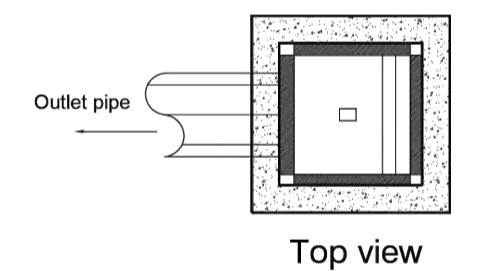


- NOTES**
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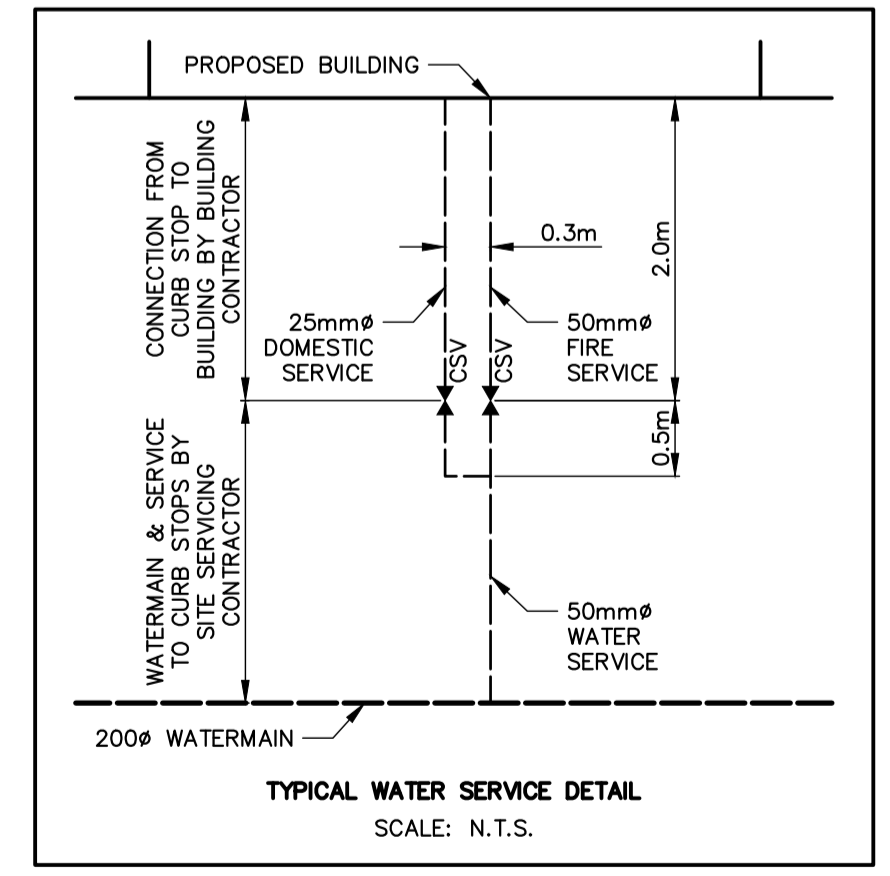
DRIVE AISLE - UNITS 1-33 (STREETS B AND C) CROSS SECTION
SCALE: N.T.S.

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



600 x 600 CB
CB Shield (600mm Sump)



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TOWN OF COLLINGWOOD

TATHAM
ENGINEERING

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

DE-1

DETAILS AND NOTES



LEGEND

JOINT-USE UTILITY TRENCH (SECONDARIES FOR HYDRO, BELL AND CABLE)	— SEC —
JOINT-USE UTILITY TRENCH (HYDRO, BELL AND CABLE)	— HBC —
STREETLIGHT WIRE	— G —
GAS	— G —
DUCT CROSSING & NUMBER OF DUCTS	(S)
LIGHT STANDARD	(L)
WALL PACK LIGHT	(W)
FENCE LIGHT	(F)
BOLLARD LIGHTS	(B1)
STREET LIGHT PEDESTAL	(S)
COMMUNITY MAILBOX	(M)
UNIT NUMBER	(U)
FIRE HYDRANT AND WATER VALVE	HYD & WV
EXISTING HYDRO POLE	HP
PROPOSED BELL PEDESTAL	(B)
PROPOSED CABLE PEDESTAL	(C)

- NOTES**
1. HYDRO, BELL AND CABLE SERVICES TO BE ROUTED THROUGH THE BUILDING TO EACH UNIT.
 2. GAS SERVICES TO BE ROUTED THROUGH THE BUILDING TO EACH UNIT.
 3. 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".
 4. THIS PLAN IS TO BE USED FOR REFERENCE PURPOSES ONLY. SEE INDIVIDUAL PLANS BY UTILITY PROVIDERS FOR CONSTRUCTION DETAILS.
 5. THE CONTRACTOR IS ADVISED THAT SUBDRAINS WILL BE IN PLACE UNDER CURBS AND MUST BE PROTECTED.

DISCLAIMER AND COPYRIGHT
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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.

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
1.	1ST SUBMISSION	OCT 2022
2.	2ND SUBMISSION	JUN 2024
3.	3RD SUBMISSION	MAR 2025

ENGINEER STAMP

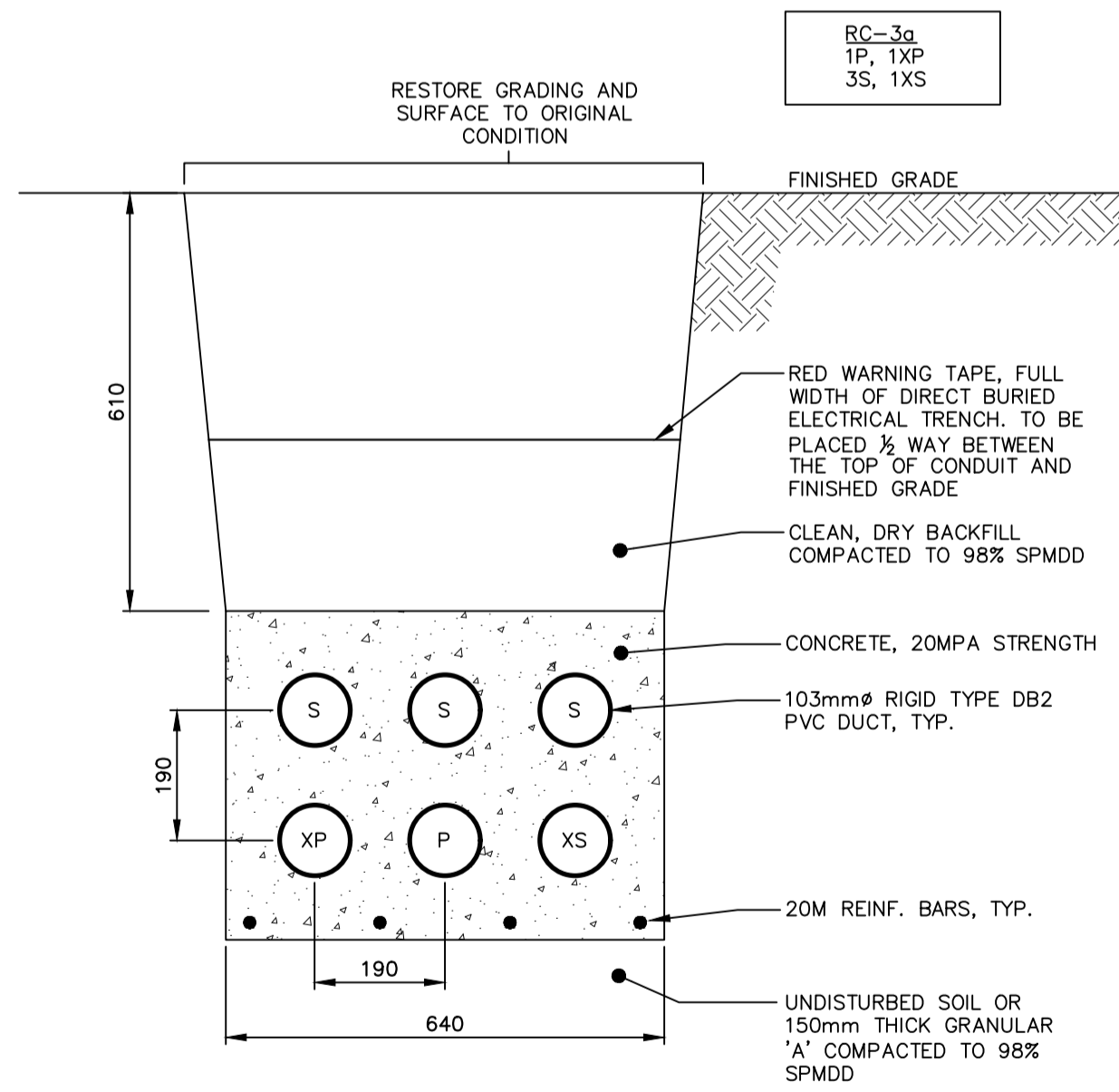
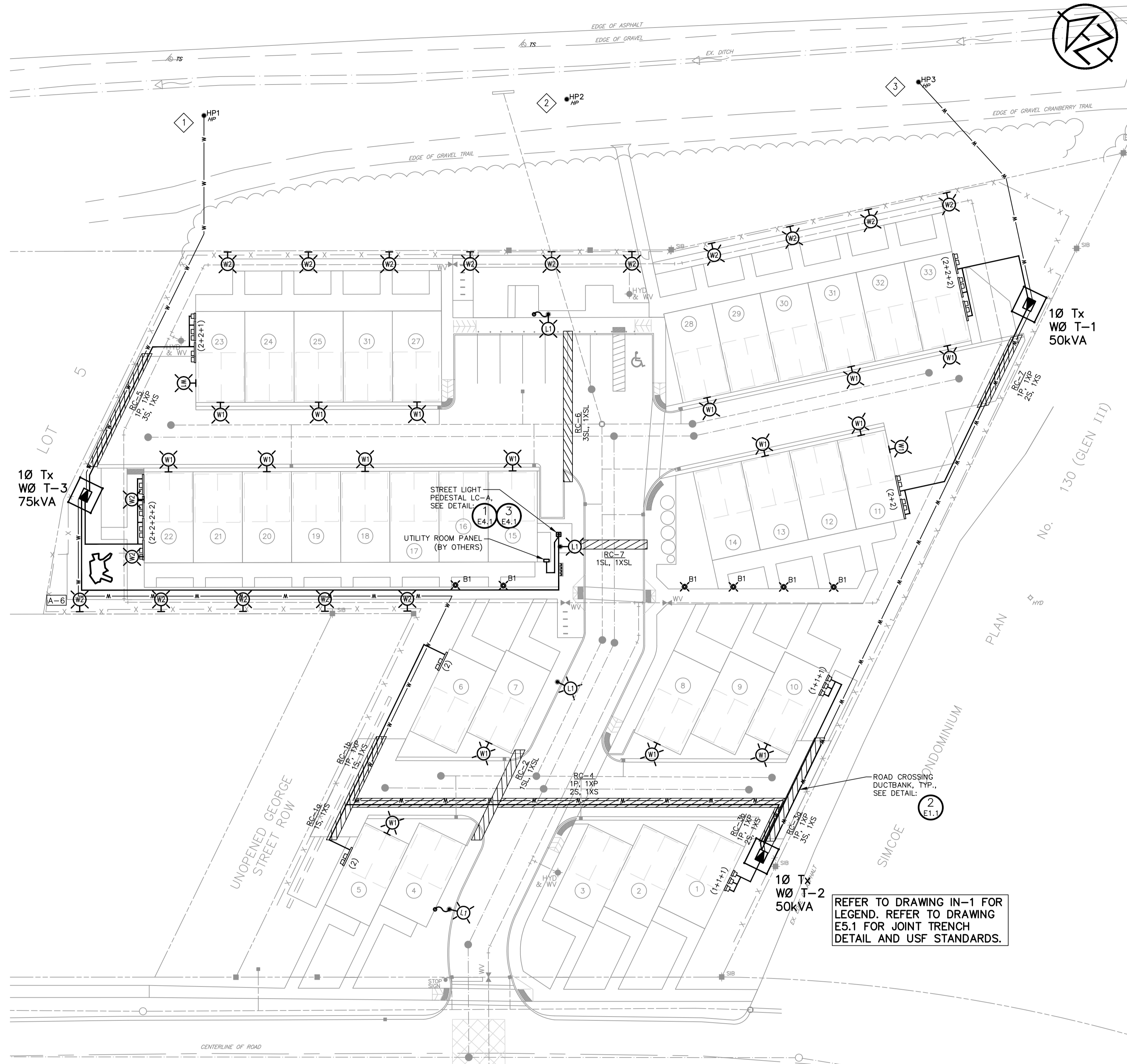
THE TERRAZZO
 TOWN OF COLLINGWOOD

COMPOSITE UTILITY PLAN

TATHAM ENGINEERING

DESIGN: AVN/MAB	FILE: 121075	DWG:
DRAWN: AVN/KRL	DATE: DEC 2021	CUP-1
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 TYPICAL CONCRETE ENCASED ROAD CROSSING DETAILS

- E1.1**
- 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 ELECTRICAL SITE PLAN – POWER LAYOUT

E1.1 • SCALE 1:300

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BENCHMARKS
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3.	3RD SUBMISSION	MAR 2025	

THE TERRAZZO TOWN OF COLLINGWOOD

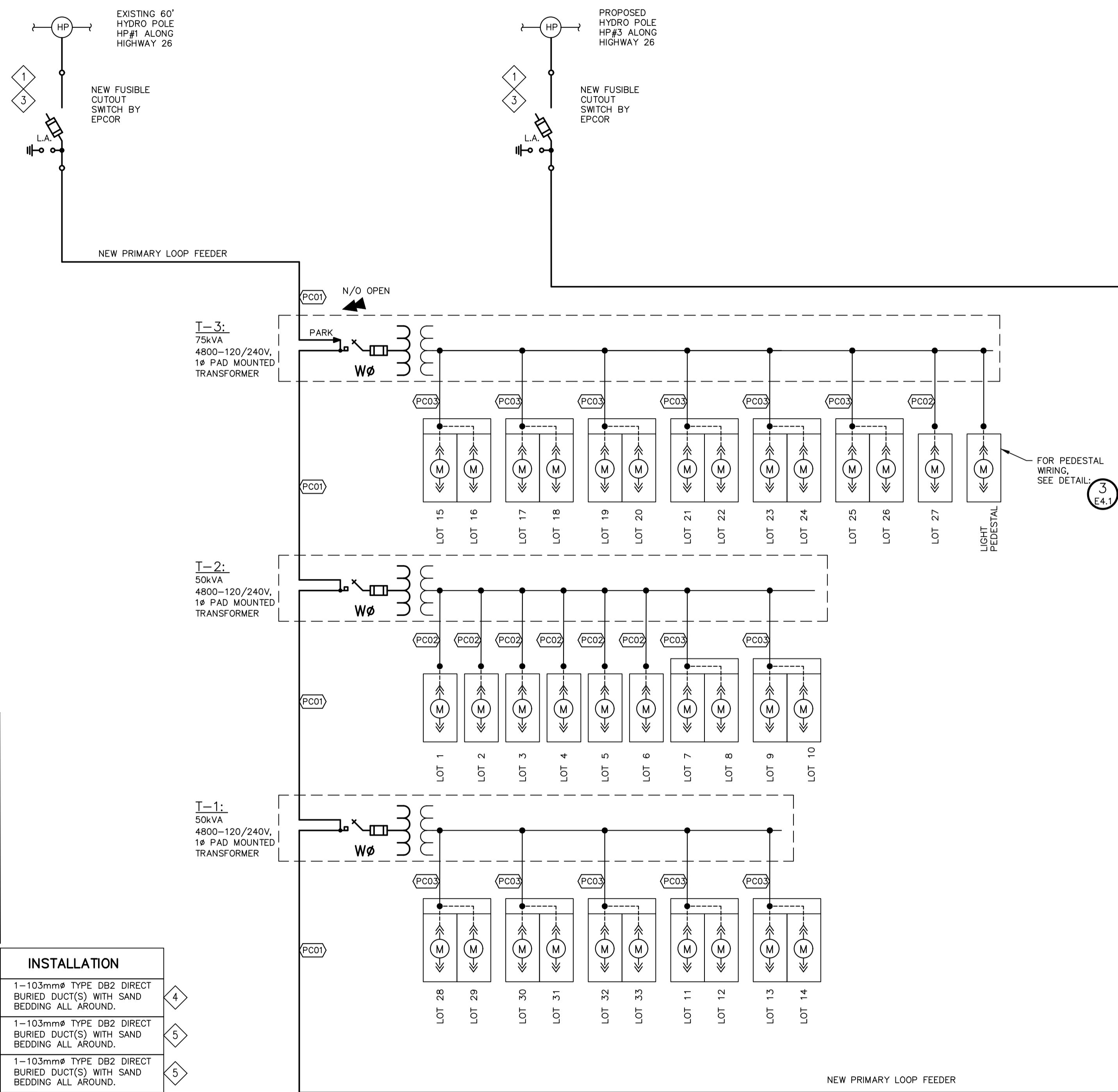
ELECTRICAL SITE PLAN

DESIGN: PP/SRT
 DRAWN: PP/KRL
 CHECK: SRT

TATHAM ENGINEERING

FILE: 121075
 DATE: SEPT. 2022
 SCALE: AS SHOWN

DWG: **E-1.1**

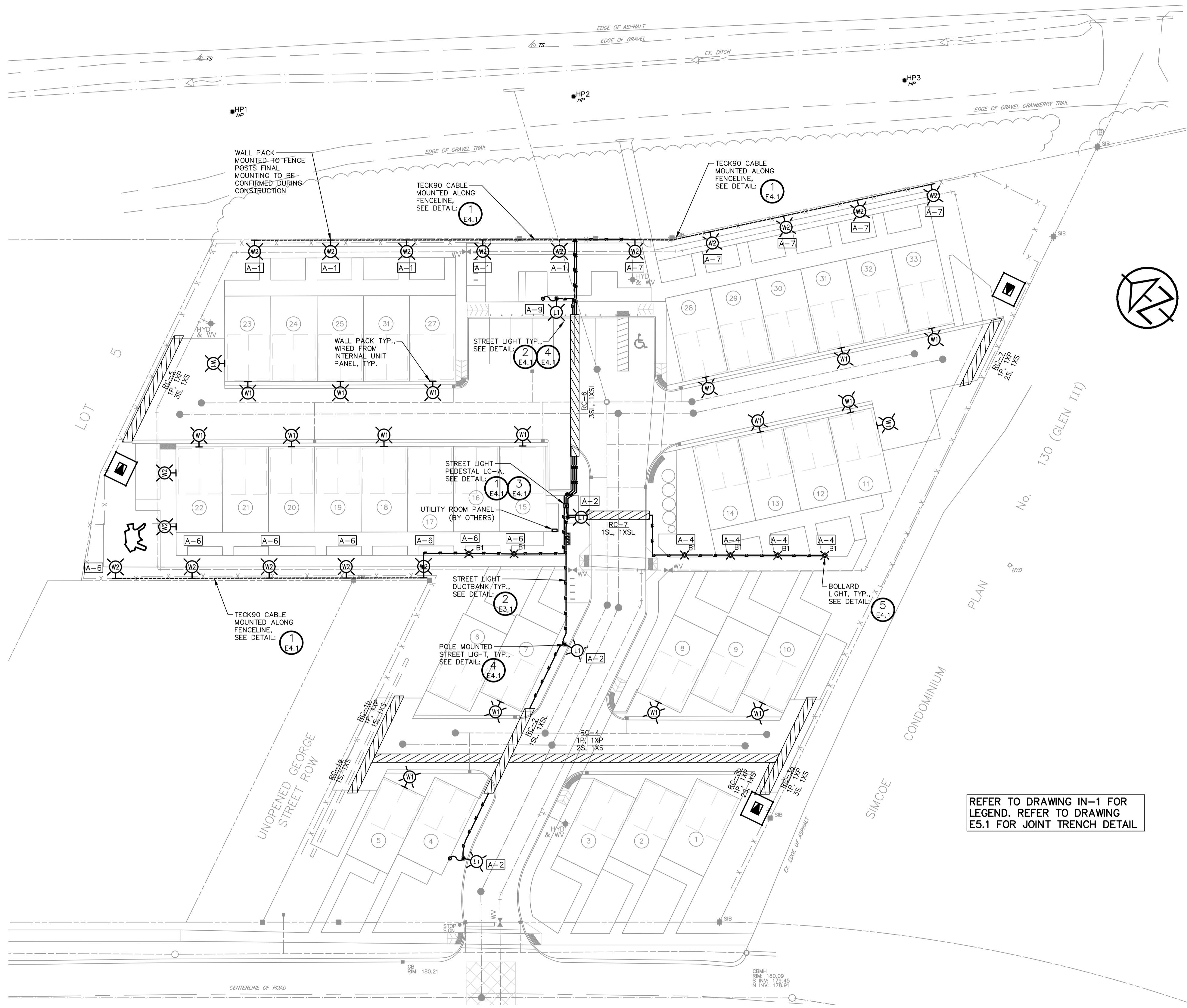


- SINGLE LINE DIAGRAM NOTES:**
- 1 ALL PRIMARY AND SECONDARY CABLE TERMINATIONS ON HYDRO POLES AND INSIDE EACH TRANSFORMER WILL BE PERFORMED BY EPCOR INC.
 - 2 ELECTRICAL SERVICE TO EACH UNIT: 200AMP MAX., 120/240VAC, 1-PHASE, 60Hz.
 - 3 ALL PRIMARY AND SECONDARY DISTRIBUTION EQUIPMENT AND CABLES TO 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.

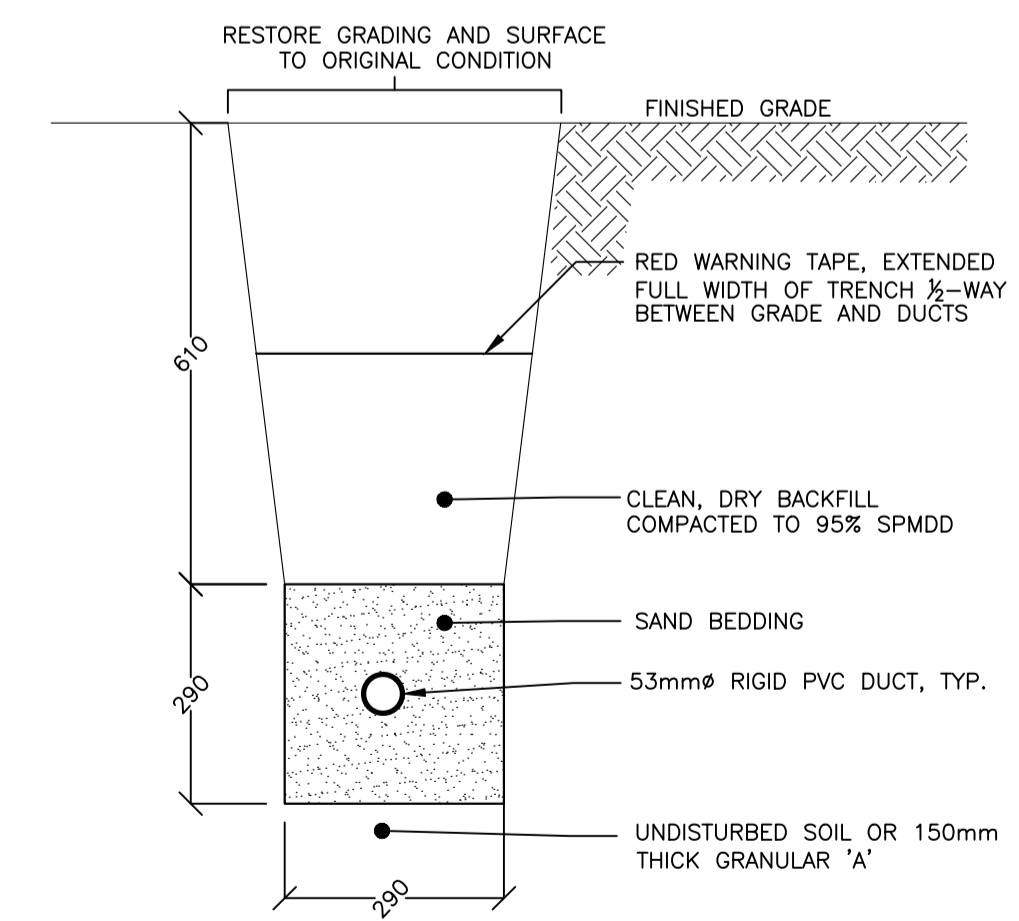
PRIMARY CABLE DESCRIPTION	INSTALLATION
PC01 PRIMARY LOOP FEEDER CABLE: 1C#1/0AWG, Cu, 15kV TR-XLPE, LLDPE, 100% ON IN 103mmØ PVC TYPE DB2 CONDUIT	1-103mmØ TYPE DB2 DIRECT BURIED DUCT(S) WITH SAND BEDDING ALL AROUND. 4
PC02 SECONDARY SERVICE CABLES: 3C#250MCM, AL, USE190. INSTALL CABLES IN 103mmØ RIGID PVC DB2 DUCT.	1-103mmØ TYPE DB2 DIRECT BURIED DUCT(S) WITH SAND BEDDING ALL AROUND. 5
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. 5

1 SINGLE LINE DIAGRAM
E2.1 - NTS

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SINGLE LINE DIAGRAM						<table border="1"> <tr> <td>DESIGN: SRT</td> <td>FILE: 121075</td> <td>DWG: E2.1</td> </tr> <tr> <td>DRAWN: KRL</td> <td>DATE: SEPT. 2022</td> <td></td> </tr> <tr> <td>CHECK: SRT</td> <td>SCALE: 1:300</td> <td></td> </tr> </table>	DESIGN: SRT	FILE: 121075	DWG: E2.1	DRAWN: KRL	DATE: SEPT. 2022		CHECK: SRT	SCALE: 1:300	
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DRAWN: KRL	DATE: SEPT. 2022														
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REFER TO DRAWING IN-1 FOR LEGEND. REFER TO DRAWING E5.1 FOR JOINT TRENCH DETAIL



2 TYPICAL LIGHTING DUCTBANK
E3.1 - NTS

1 STREETLIGHTING LAYOUT
E3.1 • SCALE 1:300

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ENGINEER STAMP
LICENSED PROFESSIONAL ENGINEER
S. R. S. TAYLOR
100518503
16APR'25
PROVINCE OF ONTARIO

THE TERRAZZO TOWN OF COLLINGWOOD
STREETLIGHTING LAYOUT

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



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

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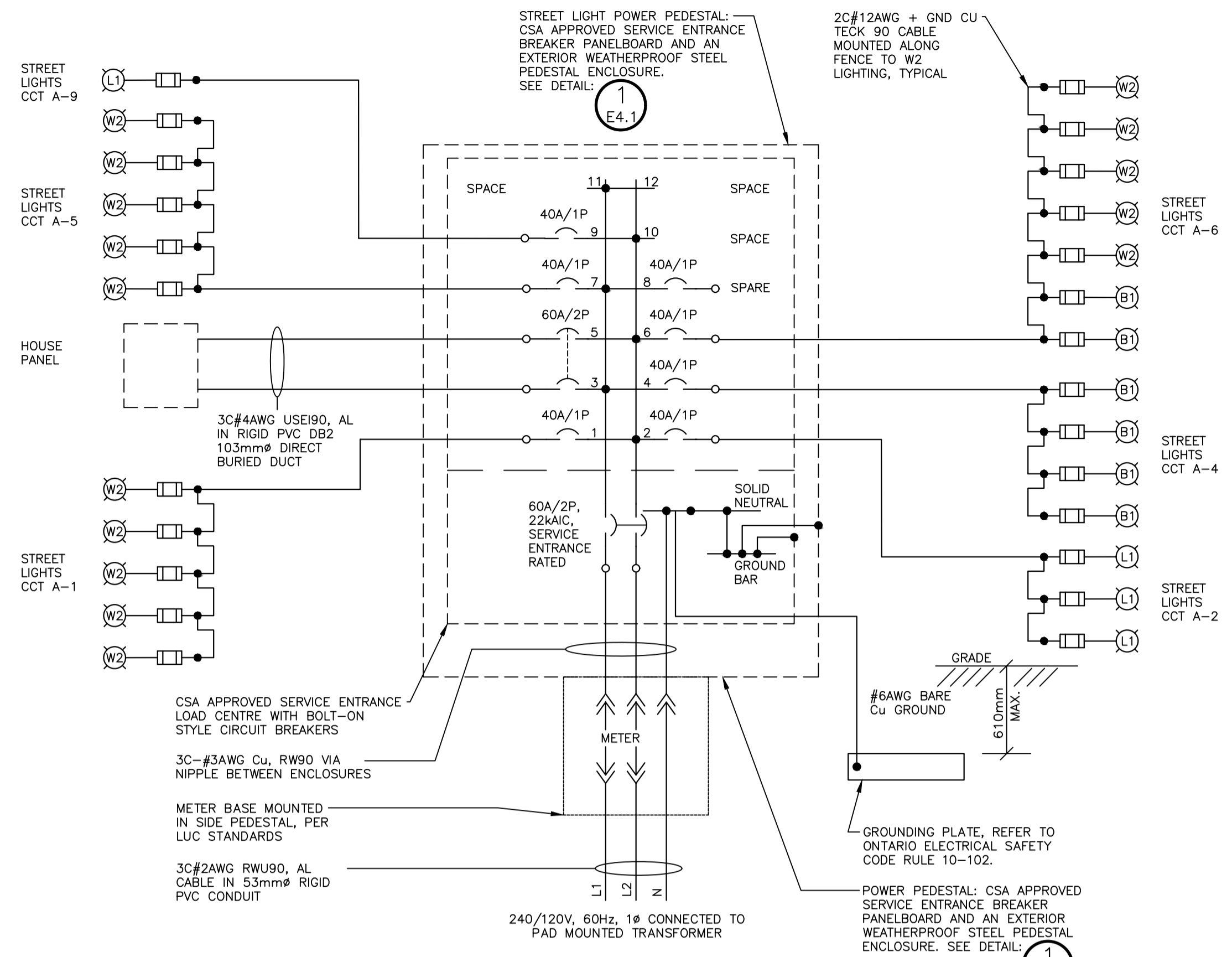
PHOTOMETRIC LAYOUT

DESIGN: PP/SRT
DRAWN: PP/KRL
CHECK: SRT

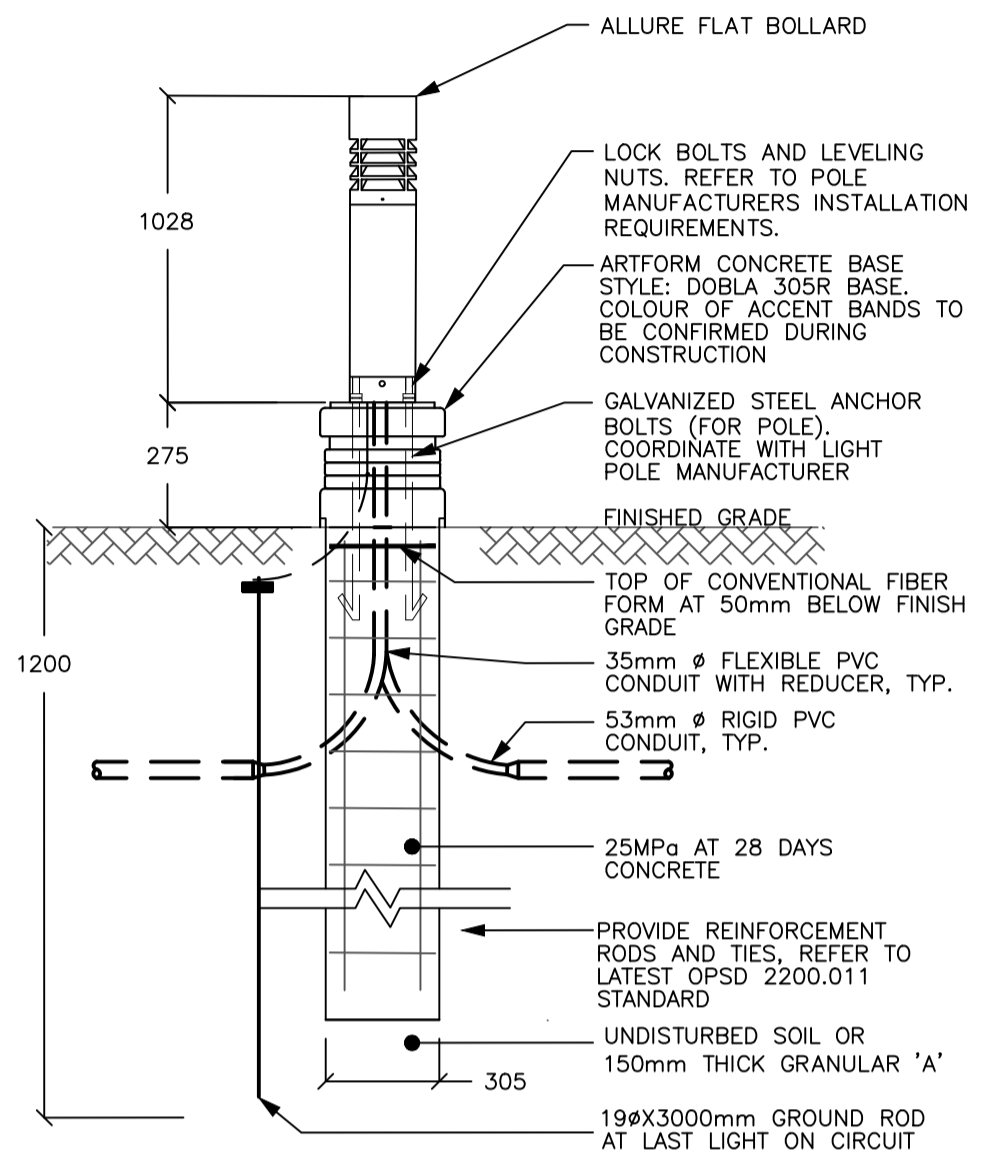
TATHAM ENGINEERING

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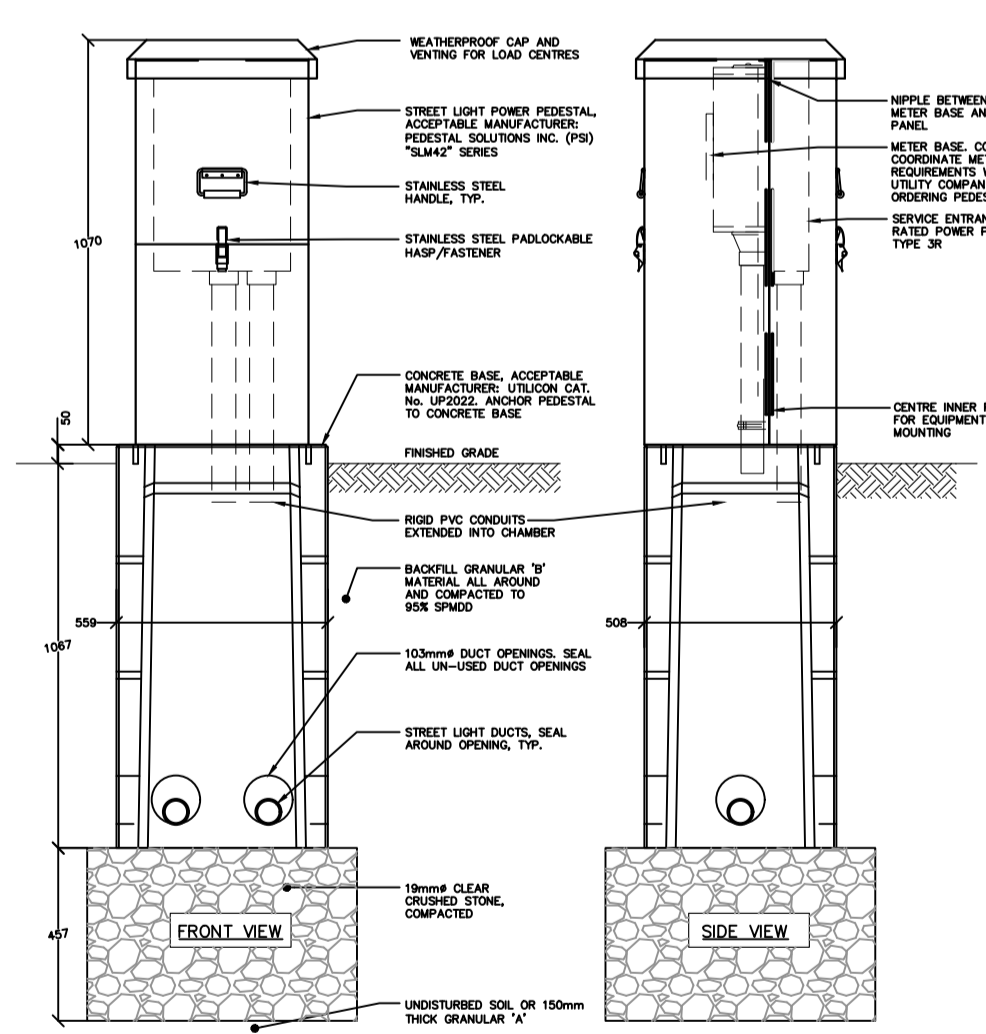
DWG: **E-3.2**



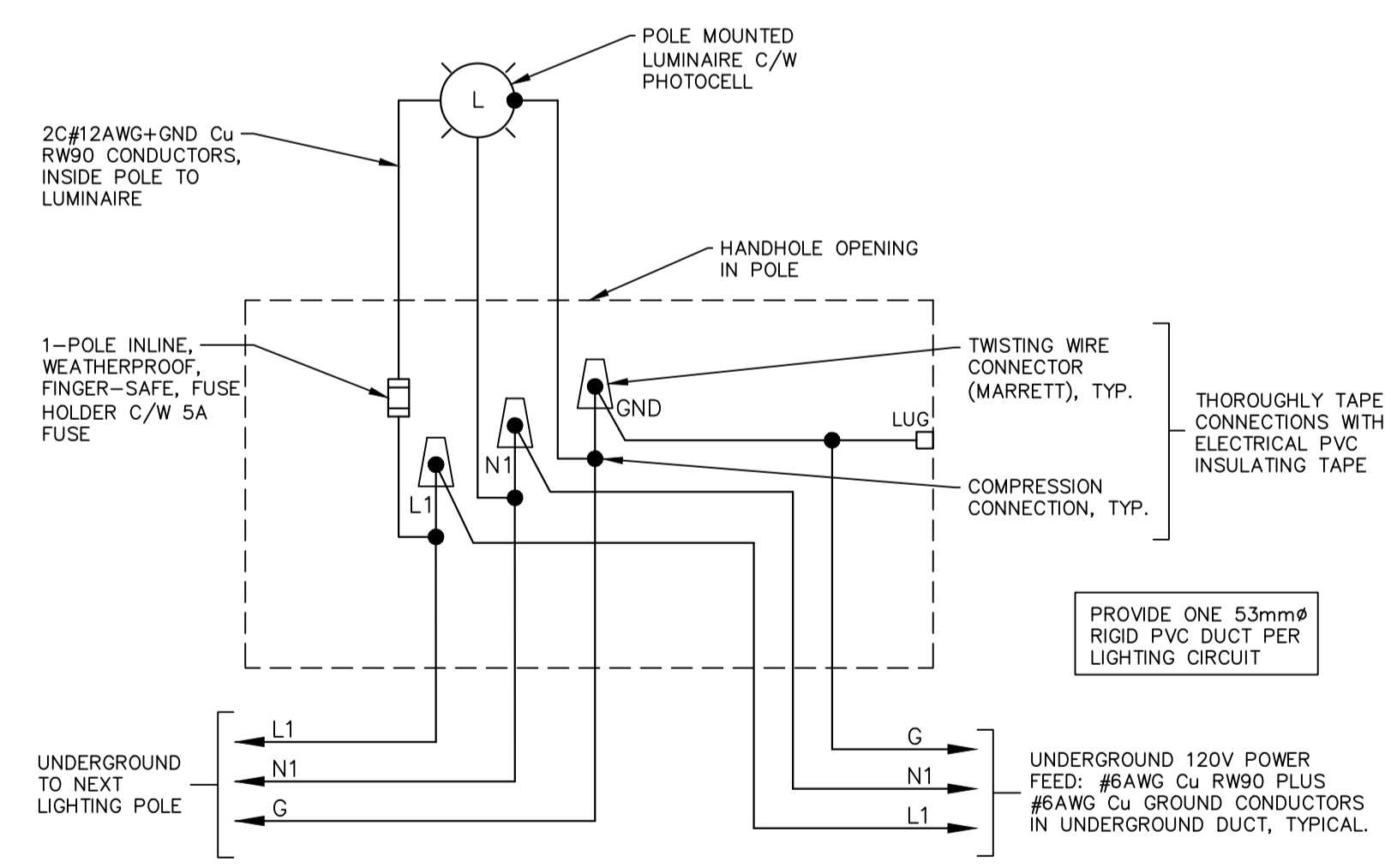
3 METERED POWER PEDESTAL PANEL, LC-A
 E4.1 • NTS
 - FOR INSTALLATION DETAILS REFER TO OPSD 2200.041



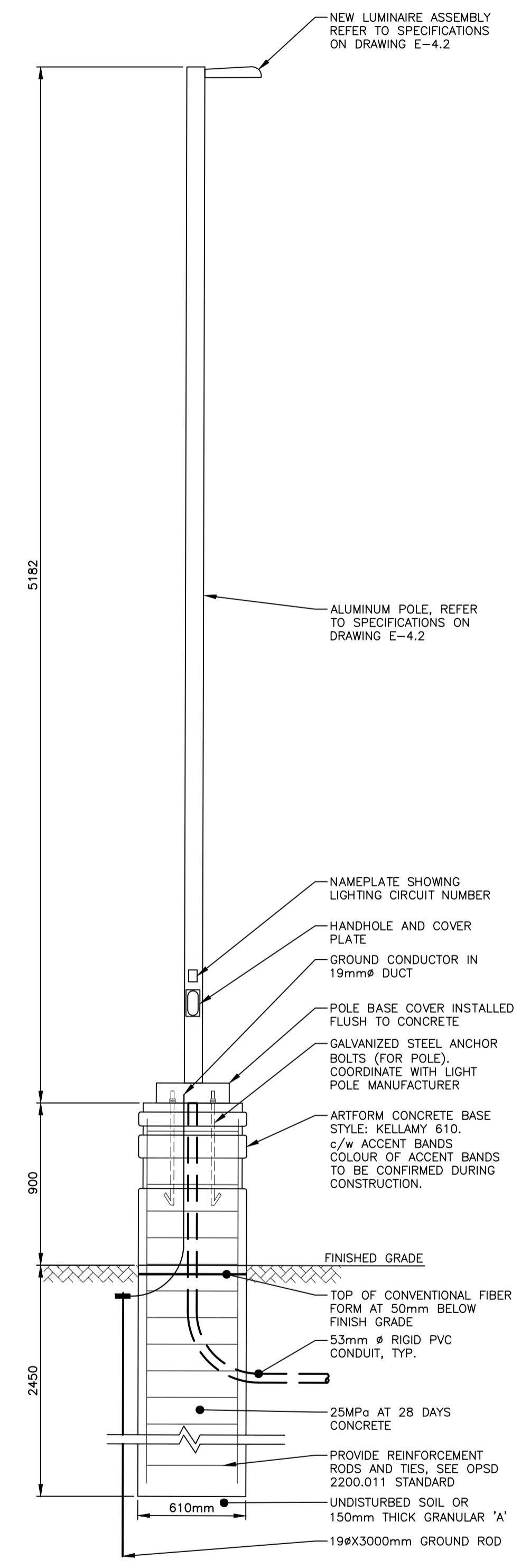
5 B1 BOLLARD LIGHTING TYPICAL INSTALLATION
 E4.1 • NTS
 - FOR INSTALLATION DETAILS REFER TO OPSD 2200.041



1 UNMETERED STREETLIGHT POWER PEDESTAL DETAIL
 E4.1 • NTS, DIMENSIONS SHOWN IN MILLIMETRES (MM)



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

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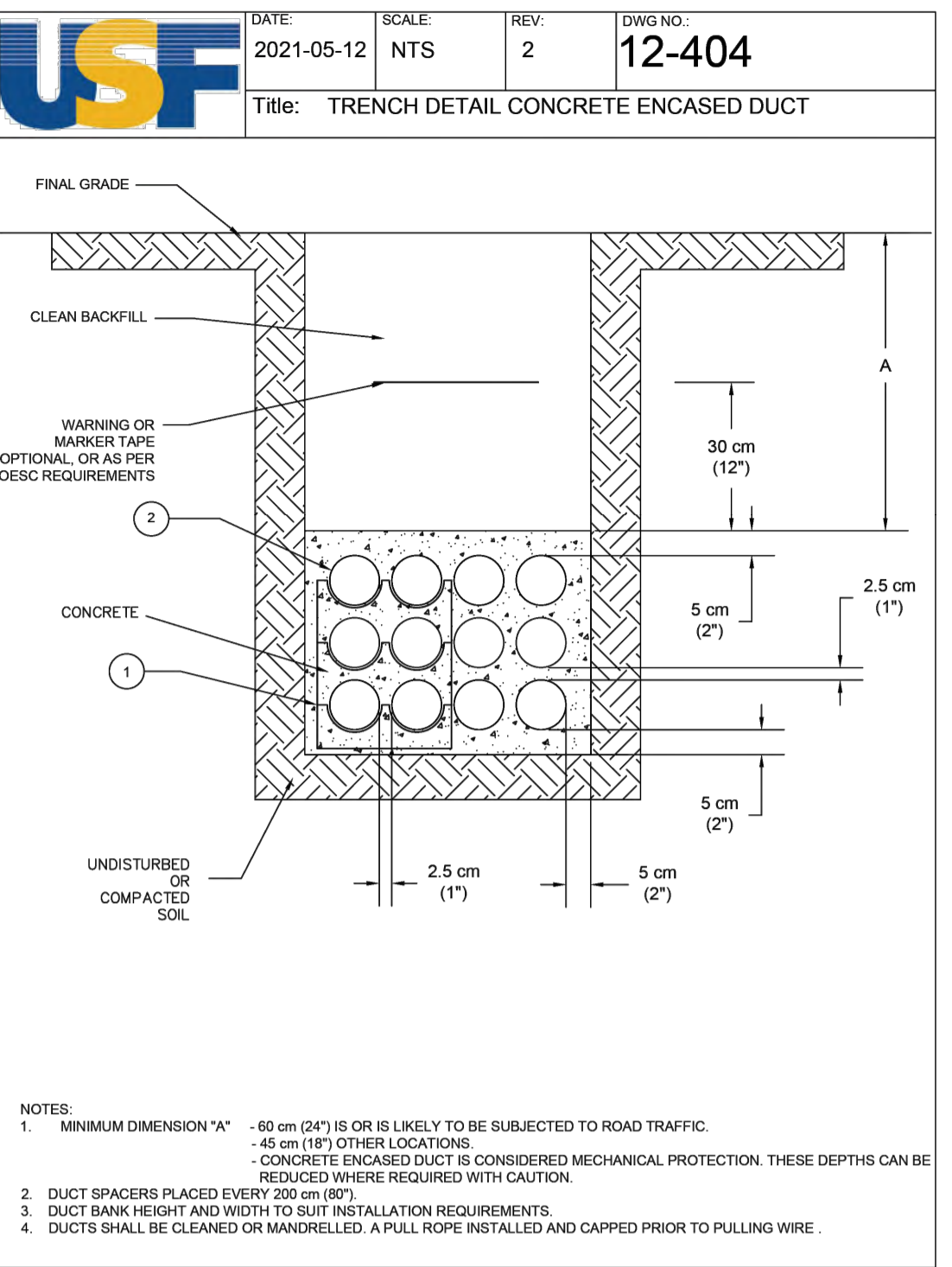
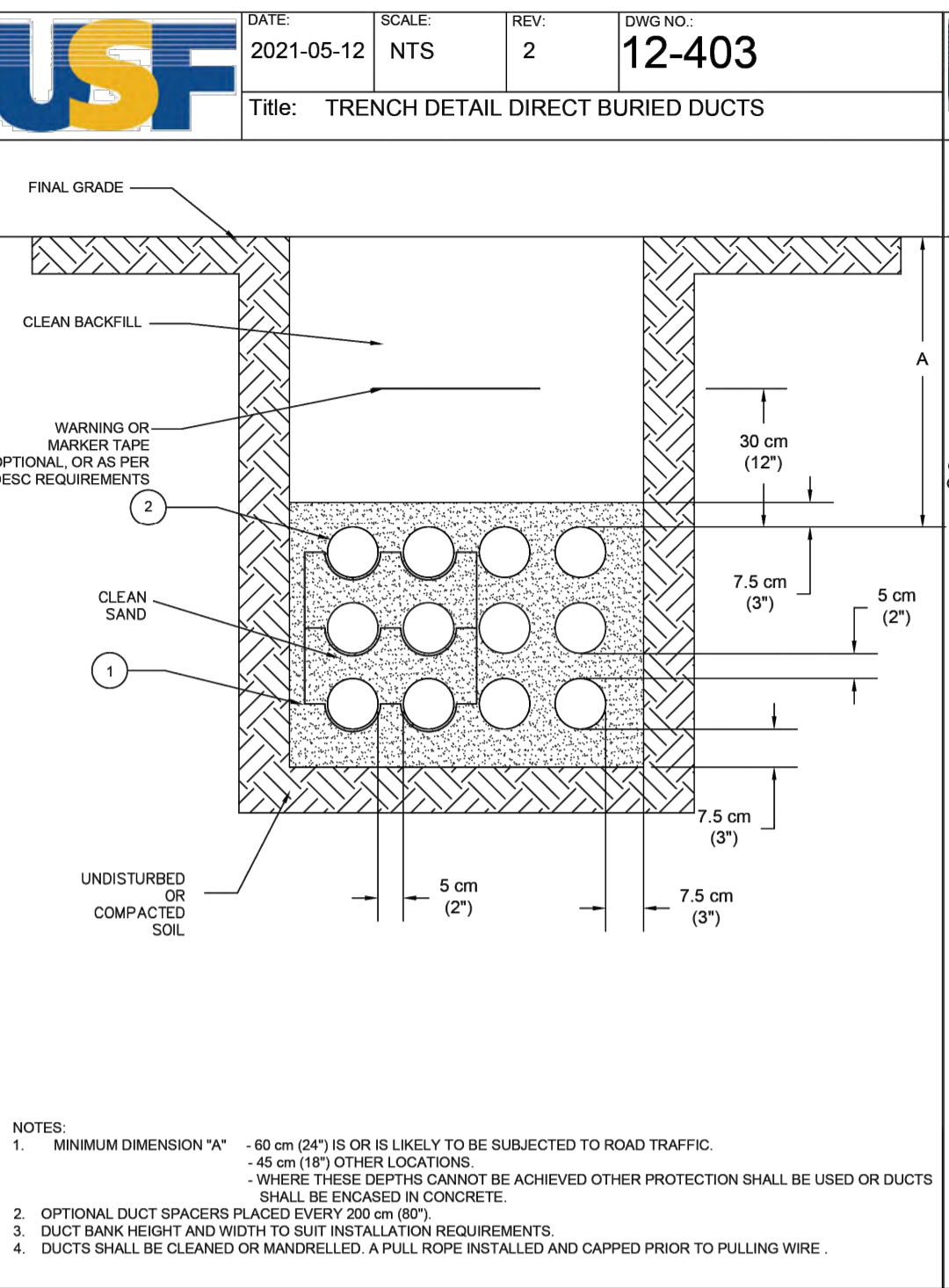
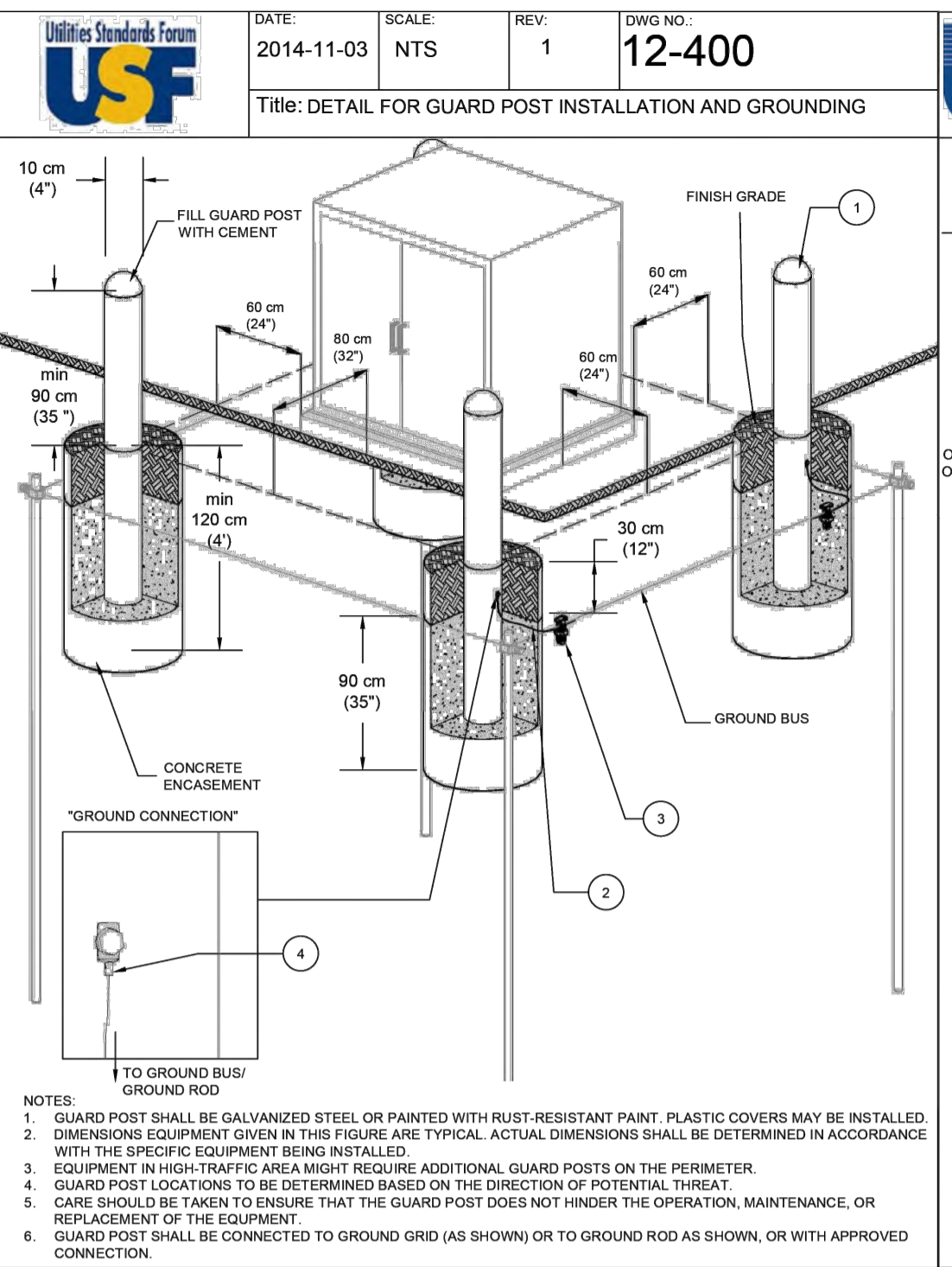
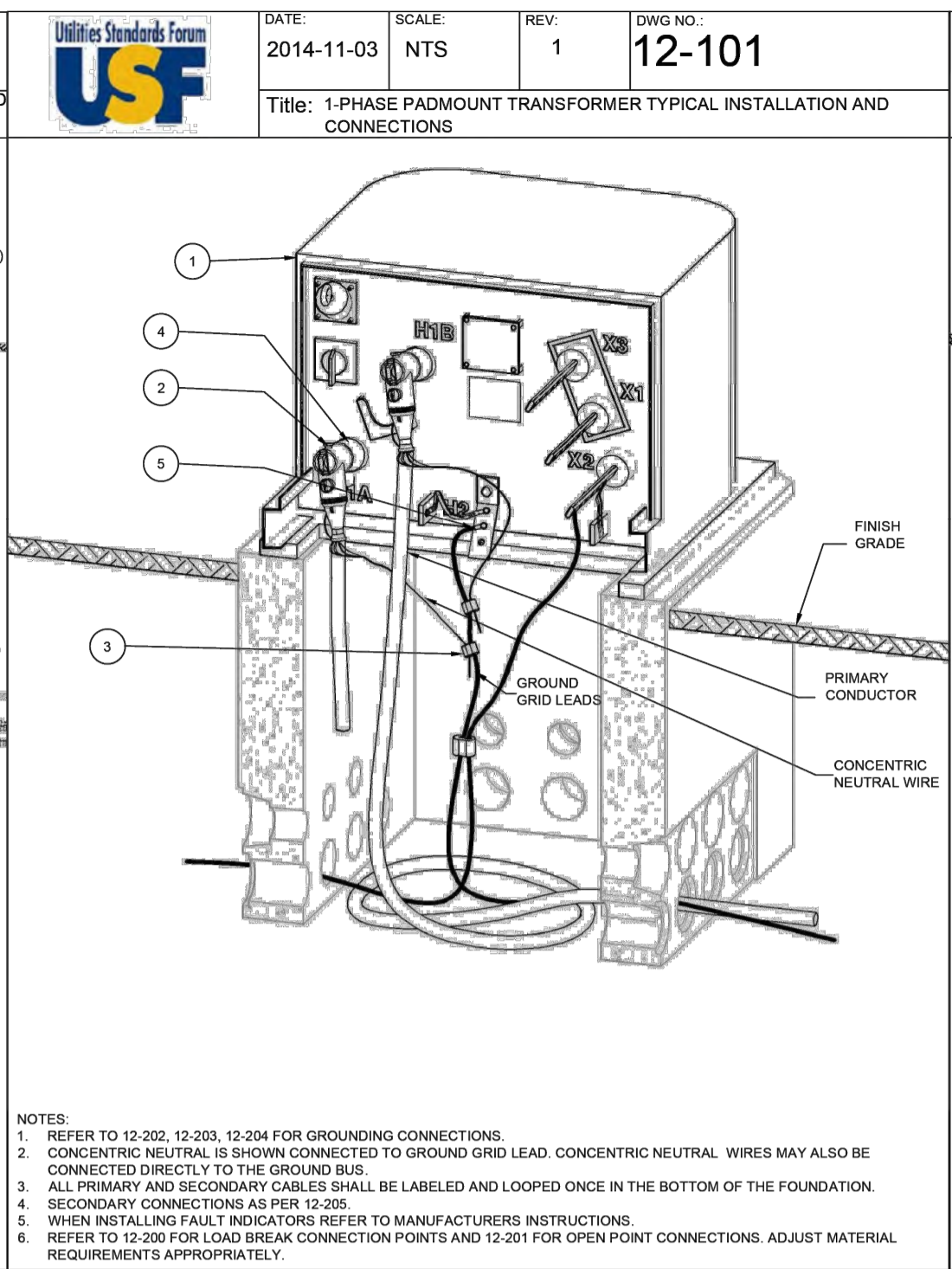
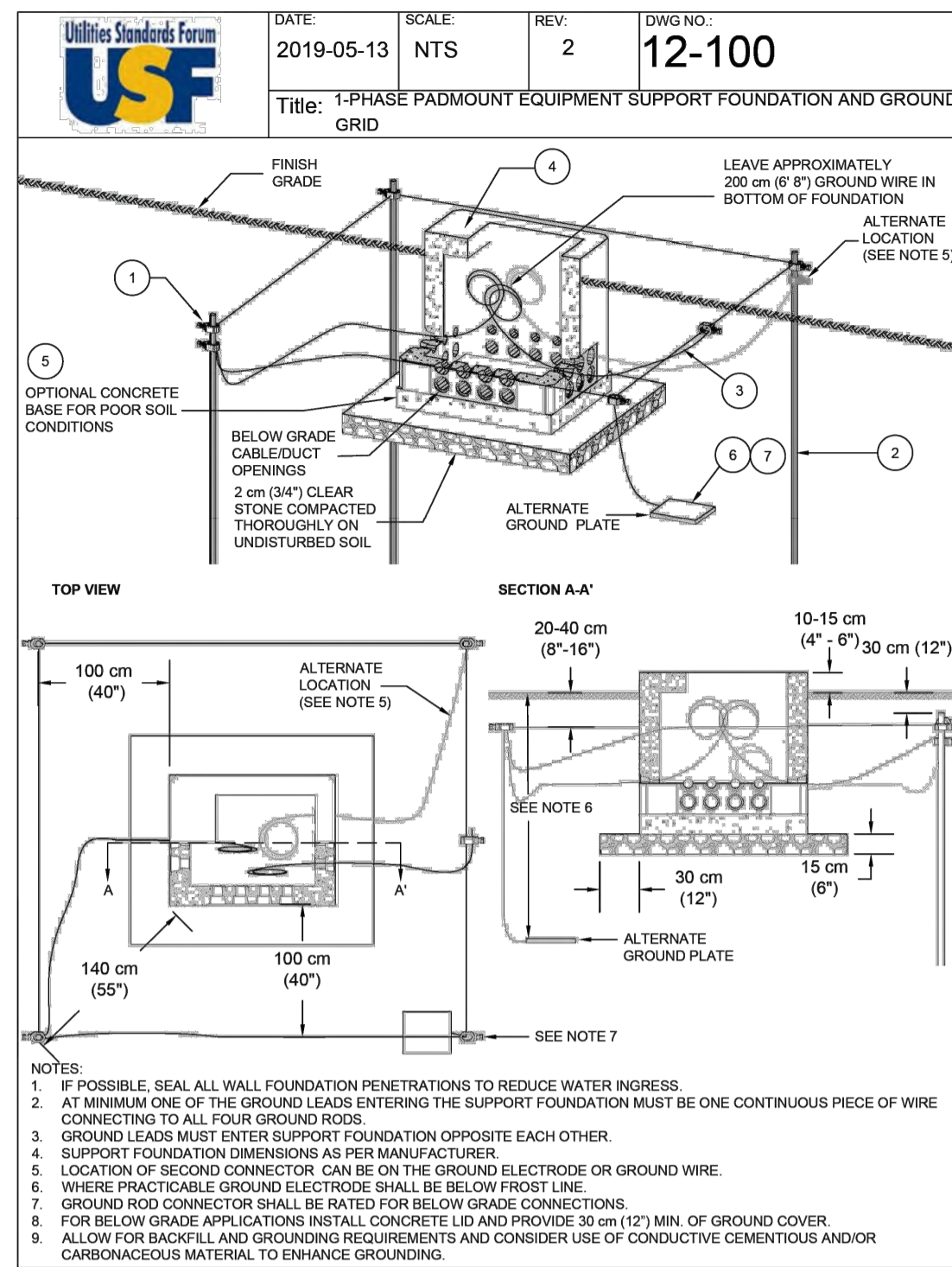
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THE TERRAZZO TOWN OF COLLINGWOOD

ELECTRICAL DETAILS SHEET

TATHAM ENGINEERING

DESIGN: PP/SRT	FILE: 121075	DWG: E-4.1
DRAWN: PP/KRL	DATE: SEPT. 2022	
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MATERIAL LIST 12-100

Part #	Qty.	Description	Part Number
1	6	Connector, Ground Rod	U01145, U01146
2	4	Ground Rod	U05812, 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 Arrester	U10750
Optional	as req'd	Parking Stand	U10800
Optional	as req'd	Feed Thru Parking Stand	U05467
Optional	as req'd	Parking Stand Arrester	U05185-U05187
Optional	as req'd	Elbow Arrester	U11800
Optional	as req'd	Fault Indicators	U05465

MATERIAL LIST 12-400

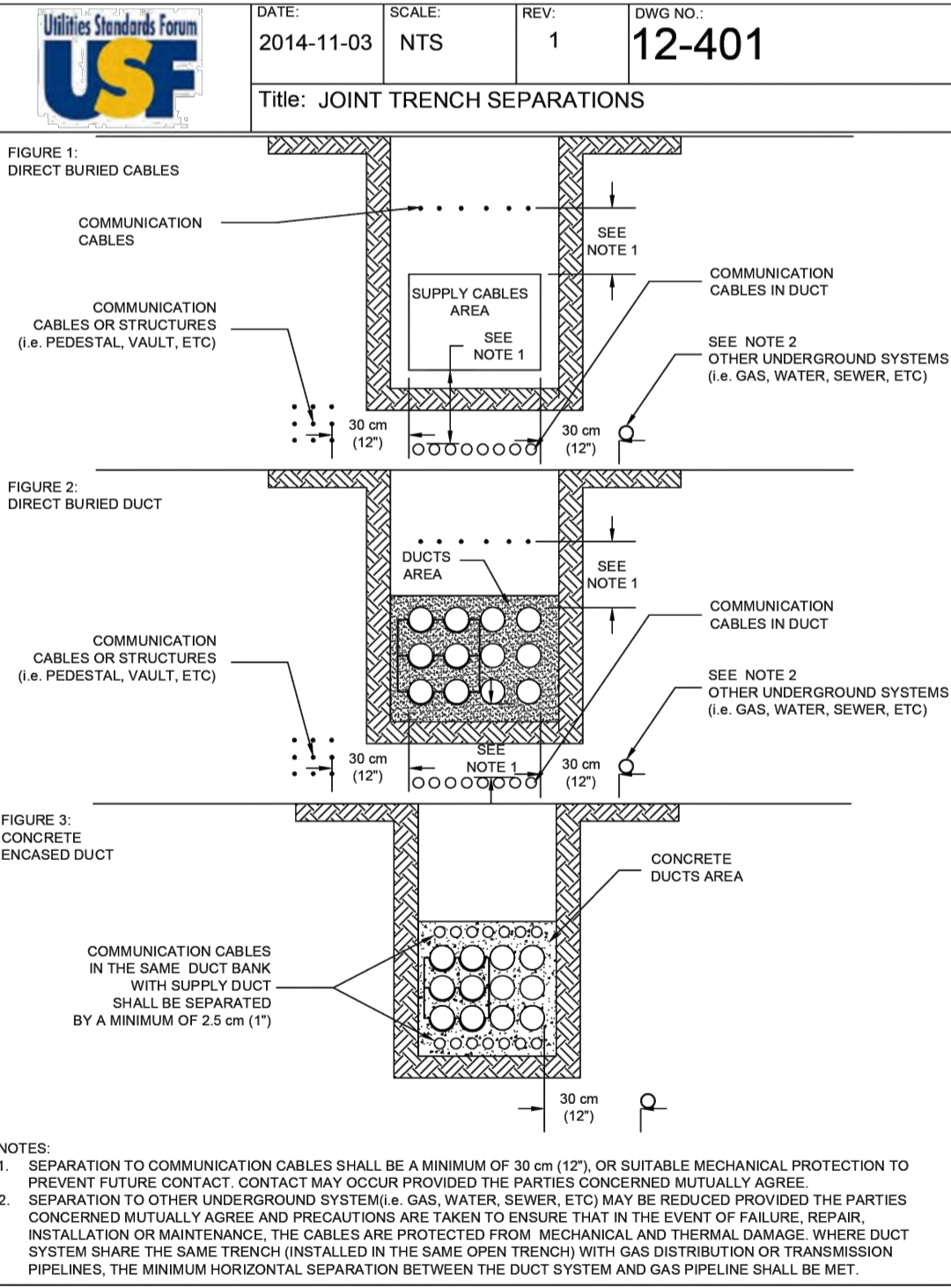
Part #	Qty.	Description	Part Number
1	as req'd	Guard Post	U11100
2	as req'd	Ground Wire 2/0 AWG Cu	U10650
3	as req'd	Connector	U05585
4	as req'd	Connector, Lug	U05610

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

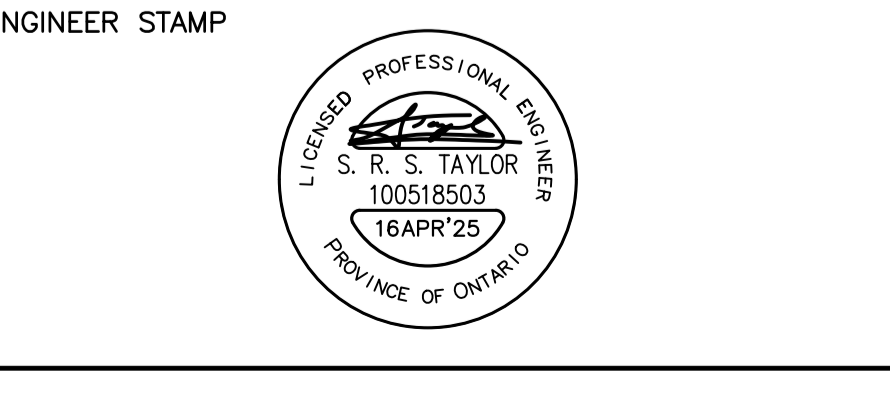
Not Applicable

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USF STANDARDS

TATHAM ENGINEERING

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