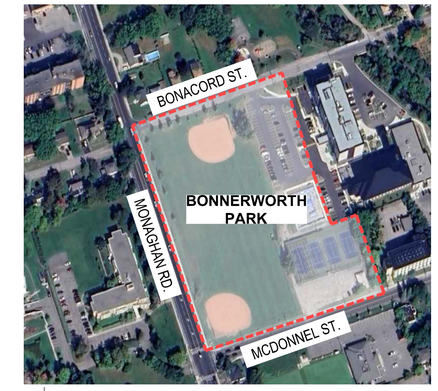
Bonnerworth Park Redevelopment

City of Peterborough

Contract No.: ITT-67-24

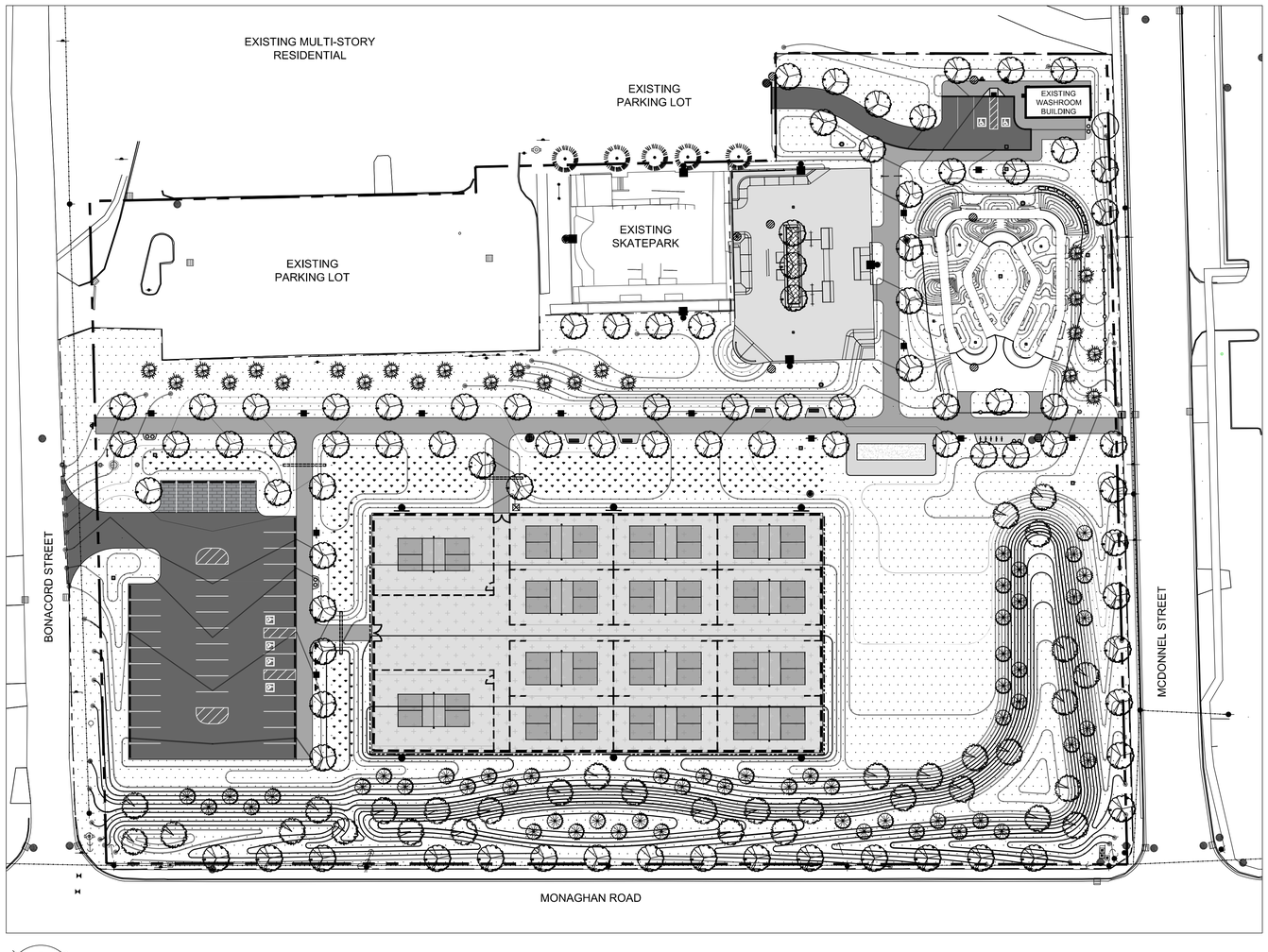
SHEET NO.	TITLE
	COVER PAGE
ES-1	EXISTING SITE SURVEY
EX-1	EXISTING CONDITIONS / SITE PREPARATION PLAN
L-1	LANDSCAPE / SURFACE MATERIALS PLAN
L-2	LAYOUT PLAN
L-3	GRADING AND DRAINAGE PLAN
L-4	PLANTING PLAN
SITE SERVICING	
SS1	SITE SERVICING PLAN
DET-1	NOTES AND DETAILS PLAN
DET-2	NOTES AND DETAILS PLAN
ELECTRICAL	
E-1	ELECTRICAL PLAN
E-2	ELECTRICAL DETAILS & NOTES
PUMP TRACK	
PT-01	PUMP TRACK SITE PLAN
PT-02	GRADING & DRAINAGE PLAN
PT-03	TRACK PLAN & PROFILES
PT-04	TRACK DETAILS
SKATEPARK	
SP-01	COVER
SP-02	RENDERINGS
SP-03	PROJECT NOTES AND FEATURES
SP-04	EXISTING CONDITIONS / CONSTRUCTION
SP-05	BOUNDARIES
SP-05	STAKE-OUT LOCATIONS
SP-06	ROUGH GRADING
SP-07	DRAINAGE
SP-08	FINISHED GRADING
SP-09	TURN-DOWN AND RETAINING WALLS
SP-10	ELEVATIONS
SP-11	DIMENSIONS LINEAR ARC
SP-12	DIMENSIONS RADIAL AND ANGULAR
SP-13	MATERIALS AND JOINTING
SP-14	COLOUR SCHEME
SP-15	METALS AND EDGING
SP-16	METAL SHOP DRAWINGS
SP-17	SECTIONS I
SP-18	SECTIONS II
SP-19	DETAILS I
SP-20	DETAILS II
LANDSCAPE DETAILS	
D-1	DETAILS
D-2	DETAILS
D-3	DETAILS
D-4	DETAILS (SHADE STRUCTURE)
D-5	3.66m HT. FENCE DETAIL - CONCRETE FOOTING TYP.
D-6	3.66m HT. FENCE DETAIL - SPREAD FOOTING



NORTH

SITE CONTEXT MAP

NTS



NORTH

PARK MASTER PLAN

1:500

CLIENT:

peterborough
outside the ordinary

500 George Street North, Peterborough, ON. K9H 3R9
Tel: 705.742.7777

PRIME CONSULTANT:

landscape planning
LANDSCAPE ARCHITECTS

95 Mural Street, Suite 207, Richmond Hill, ON L4B 3G2
Tel: 905.669.6838

SUB-CONSULTANTS:

ELECTRICAL CONSULTANT
MJS Consultants Inc.
420 Main Street East, Suite 473
Milton, Ontario. L9T 1P9
TEL: 416.402.1525

CIVIL ENGINEER
Valdor Engineering Inc.
571 Chrislea Road
Woodbridge, Ontario. L4L 8A2
TEL: 905.264.0054

SKATEPARK DESIGNER
Canadian Ramp Company.
1155N Service Road W #11
Oakville, Ontario. L6M 3E3
TEL: 905.777.1758

PUMP TRACK DESIGNER
Transitions Bike Parks Inc.
Kitchener, Ontario
TEL: 519.590.3478

ISSUED FOR: Review ☐ Tender ☒ Construction ☒

LPL No. 2024-021

ISSUED FOR CONSTRUCTION

SURVEYOR INFORMATION

IBW SURVEYORS

IBWSURVEYORS.COM | 1.800.667.0696

PARTY CHIEF:DS	DRAWN:DGC	CHECKED:CF	PLOT DATE:FEB. 21, 2024	
FILE: 2024-021_241029_RD_IFC – CLEAN				A–045298

COORDINATES
COORDINATE VALUES AND DIGITAL FILE ARE IN GRID SYSTEM, UTM ZONE 17 (81° WEST LONGITUDE), NAD83(CSRS)(2010). COMBINED SCALE FACTOR = 1.000126

CONTOURS
CONTOURS SHOWN HEREON ARE DRAWN AT 0.20 METRE INTERVALS.

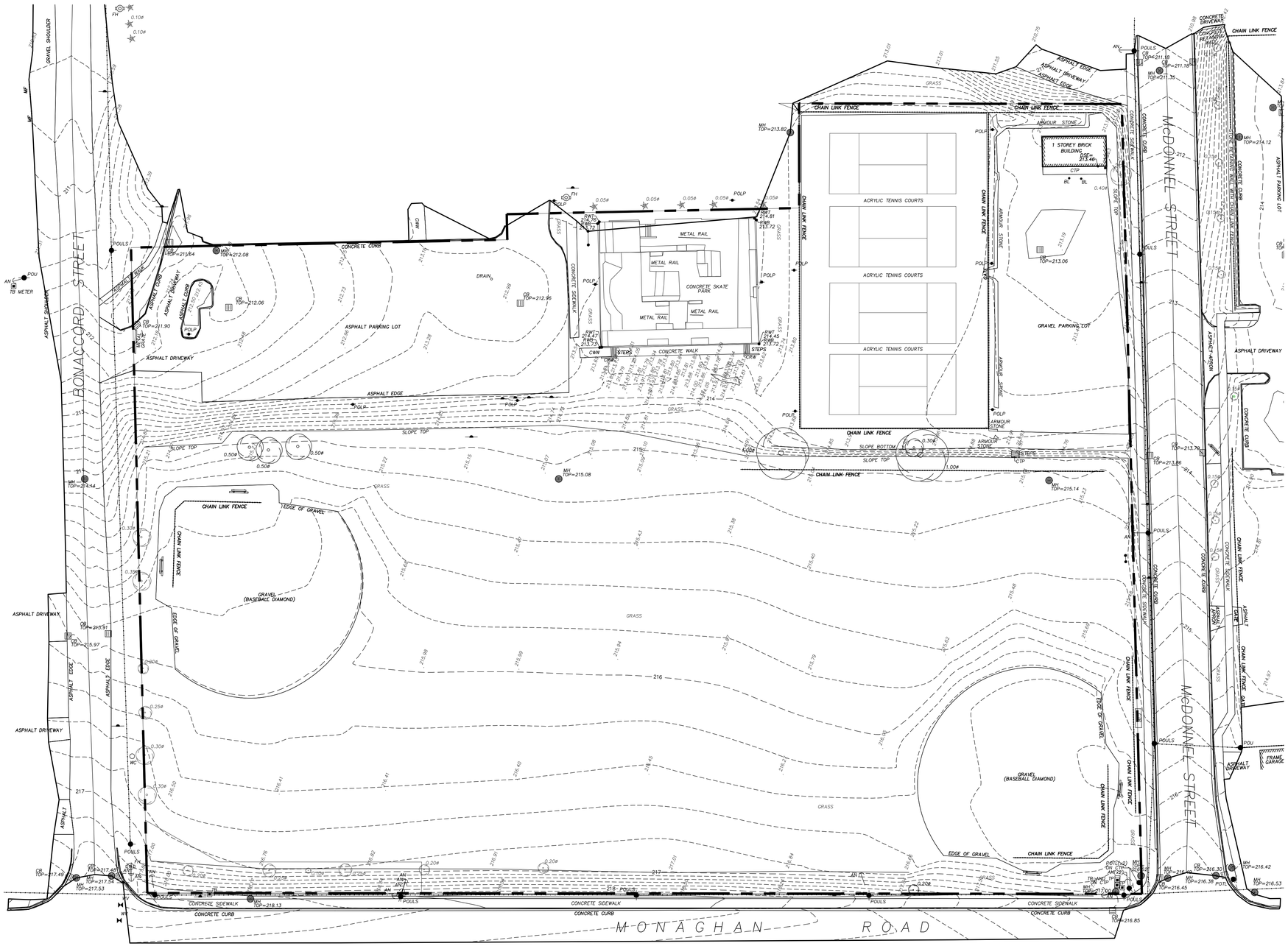
ELEVATIONS
ELEVATIONS ARE GEODETIC AND REFERRED TO THE CANADIAN GEODETIC VERTICAL DATUM (CGVD28) BY DIRECT MEASUREMENT TO A REAL TIME NETWORK.

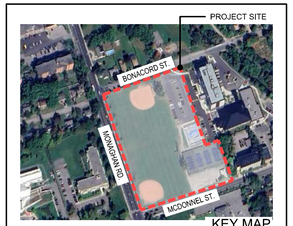
CAUTION
THIS IS NOT A PLAN OF SURVEY AND SHALL NOT BE USED EXCEPT FOR THE PURPOSE INDICATED IN THE TITLE BLOCK. THE WORK AND DRAWINGS HEREIN WERE COMPLETED FOR THE EXCLUSIVE USE OF OUR CLIENT AND NO LIABILITY IS ASSUMED TO ANY THIRD PARTIES OR SUBSEQUENT OWNERS.

NOTE
PROPERTY DIMENSIONS SHOWN HEREON ARE IN ACCORDANCE WITH IBW SURVEYORS RECORDS. (PROJECT A–045298)

DISTANCE NOTES – METRIC
DISTANCES ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 1.000126.





KEY MAP
N.T.S

LEGEND:

RWT	DENOTES RETAINING WALL TOP
RWB	DENOTES RETAINING WALL BOTTOM
CWW	DENOTES CONCRETE WALKWAY
DSE	DENOTES DOOR SILL ELEVATION
RWT	DENOTES RETAINING WALL ELEVATION AT TOP
CTP	DENOTES CONCRETE PAD
CRW	DENOTES CONCRETE RETAINING WALL
WC	DENOTES WELL
TP	DENOTES TERMINAL PANEL
BL	DENOTES BOLLARD
DR	DENOTES DRAIN
	DENOTES POST SIGN
POTL	DENOTES TRAFFIC SIGNAL POLE
POU	DENOTES UTILITY POLE
POULS	DENOTES UTILITY/LIGHT STANDARD POLE
POUTL	DENOTES UTILITY/TRAFFIC LIGHT
	DENOTES SIGN
TB	DENOTES TERMINAL BOX
AN	DENOTES ANCHOR POINT
WV	DENOTES WATER VALVE
OH	DENOTES OVERHEAD UTILITY WIRES
CB	DENOTES CATCH BASIN
FH	DENOTES FIRE HYDRANT
MH	DENOTES MAINTENANCE HOLE
POLP	DENOTES LIGHT POST
0.50ø	DENOTES CONIFEROUS TREE W/TRUNK DIAMETER
0.10ø	DENOTES DECIDUOUS TREE W/TRUNK DIAMETER
	DENOTES BENCH

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no.	revision	date	by
R4	ISSUED FOR CONSTRUCTION	2024-10-29	JS
R3	ISSUED FOR ADDENDUM #1	2024-10-03	JS
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R1	ISSUED FOR REVIEW	2024-09-09	MN
R0	ISSUED FOR REVIEW	2021-08-13	JS

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NORTH

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — PAUL A. GARDNER — OALA — October 29, 2024 — MEMBER

project number
2024-021

landscape planning
LANDSCAPE ARCHITECTS
Suite 207, 95 Mural Street, Richmond Hill, Ontario L4B 3G2,
Tel. 905.669.6838, www.landscapeplan.ca

project title
BONNERWORTH PARK REDEVELOPMENT

560 MCDONNEL STREET,
PETERBOROUGH, ONTARIO

client
CITY OF PETERBOROUGH

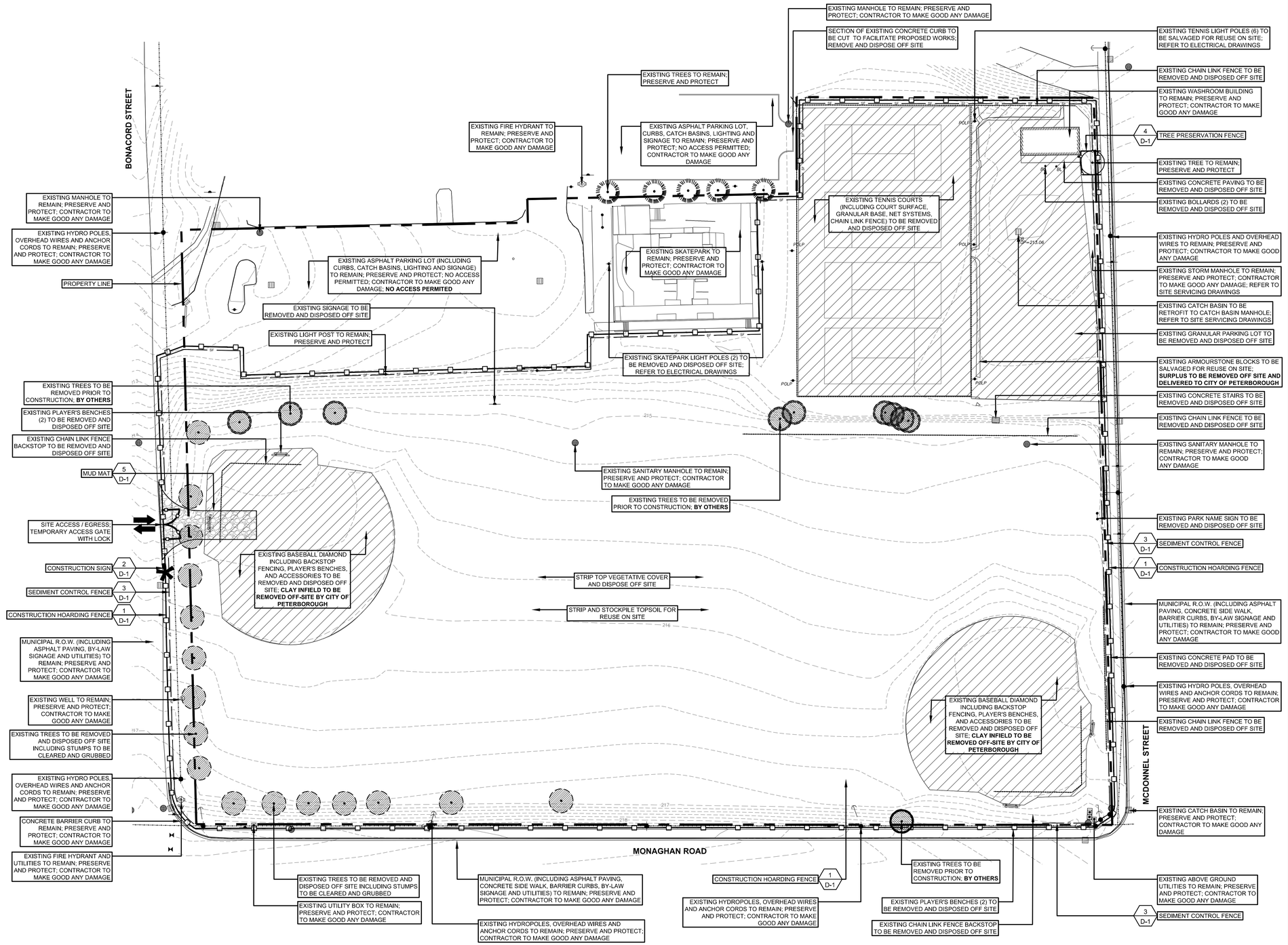
tender number
ITT-67-24

drawing title
EXISTING SITE SURVEY

drawn by	reviewed by	drawing number:
JS	PG	ES-1
date: OCT. 2024	scale: 1:400	

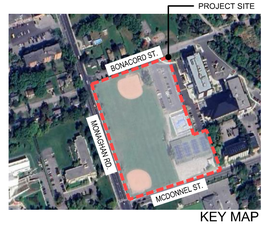
GENERAL CONSTRUCTION NOTES:

1. THE CONTRACTOR, UPON ACCEPTANCE OF THE CONTRACT, ASSUMES COMPLETE RESPONSIBILITY AND LIABILITY FOR THE JOB SITE DURING THE COURSE OF CONSTRUCTION, AND WILL ENSURE PUBLIC SAFETY AND CLEANLINESS OF MUNICIPAL ROADS NEAR THE SITE.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADES AND SITE CONDITIONS BEFORE PROCEEDING WITH THE WORK, AND REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING. NO ALLOWANCE SHALL BE MADE ON BEHALF OF THE CONTRACTOR FOR FAILURE TO DO SO.
3. THE CONSULTANT IS NOT RESPONSIBLE FOR ACCURACY OF SURVEY OR ENGINEERING DRAWINGS. REFER TO APPROPRIATE DRAWINGS BEFORE PROCEEDING WITH THE WORK.
4. ALL CONSTRUCTION TO BE CARRIED OUT IN ACCORDANCE WITH THE MOST CURRENT PROVINCIAL AND MUNICIPAL STANDARDS AND SPECIFICATIONS.
5. CONSTRUCTION MUST CONFORM TO ALL APPLICABLE CODES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.
6. SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY STATE FOR THE DURATION OF CONSTRUCTION; ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT,
7. CONTRACTOR SHALL BE RESPONSIBLE TO CLEAN ROADS DAILY TO THE SATISFACTION OF THE CONSULTANT / OWNER.
8. DUST CONTROL: THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO CONTROL DUST ON THIS PROJECT SITE ON A DAILY BASIS AND TO THE SATISFACTION OF THE CONSULTANT.
9. REFUELING, LUBRICATION AND/OR MAINTENANCE OF CONSTRUCTION VEHICLES IS NOT PERMITTED ON SITE UNLESS APPROVED BY THE OWNER IN WRITING.
10. THE CONTRACTOR SHALL ESTABLISH ALL PROPERTY BOUNDARIES AND CORNER STAKES, AND SHALL BE RESPONSIBLE FOR ALL COSTS OF RE-ESTABLISHING THEM SHOULD THEY BE DISTURBED.
11. CONTRACTOR SHALL BE PERMITTED ONE (1) POINT OF ACCESS FROM BONACCORD STREET. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ONE (1) CONSTRUCTION GATE WITH LOCK.
12. THE CONTRACTOR SHALL BE REQUIRED TO HAVE A FLAGMAN DIRECTING ALL DELIVERIES OF MACHINERY OR MATERIALS TO THE SITE.
13. STORAGE OF MATERIALS, VEHICLES AND EQUIPMENT SHALL NOT BE PERMITTED WITHIN THE MUNICIPAL ROAD ALLOWANCE OR ON PRIVATE PROPERTY.
14. AREAS FOR THE STORAGE OF MATERIALS AND EQUIPMENT SHALL BE APPROVED BY CONSULTANT. MATERIAL AND EQUIPMENT STORAGE SHALL NOT BE PERMITTED WITHIN 15m OF RESIDENTIAL LOTS.
15. THE CONTRACTOR SHALL NOTIFY CONSULTANT 48 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE INSPECTION SCHEDULES.
16. ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES FOR UTILITY STAKEOUT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES CAUSED TO EXISTING UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL GIVE UTILITIES ADVANCE NOTICE PRIOR TO DIGGING AND SHALL ASSUME ALL LIABILITIES OF DAMAGE DURING CONSTRUCTION.
17. THE CONDITION OF CURBS, SIDEWALKS AND UTILITIES LOCATED WITHIN THE R.O.W. SHALL BE REVIEWED AND DOCUMENTED BETWEEN ALL PARTIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR WILL RECTIFY ANY DAMAGES, AT THEIR OWN COST, TO THE SATISFACTION OF THE CITY.
18. ALL EXISTING VEGETATION AND UTILITIES SHALL BE PROTECTED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION. REFER TO DETAILS FOR APPROVED FENCING TYPES. ANY DAMAGES NOTED TO BE RECTIFIED AT THE COST OF THE CONTRACTOR.
19. NO MACHINE ACCESS OR GRADE CHANGES ARE PERMITTED WITHIN THE DRIP LINE OF EXISTING TREES. ANY ROOTS OR BRANCHES WHICH EXTEND BEYOND THE TREE PROTECTION FENCE INDICATED ON THIS PLAN WHICH REQUIRE PRUNING, MUST BE DONE IN ACCORDANCE WITH GOOD ARBORICULTURAL STANDARDS. ANY EXCAVATIONS WITHIN THE DRIP LINE MUST BE HAND DUG. THE CONTRACTOR TO REMOVE AND DISPOSE HOARDING FENCING UPON CONSTRUCTION COMPLETION.
20. ALL TEMPORARY PROTECTIVE FENCING INCLUDING TREE PROTECTIVE FENCING SHALL BE MAINTAINED BY THE CONTRACTOR TO THE SATISFACTION OF THE INSPECTOR FOR THE DURATION OF CONSTRUCTION AND REMOVED FOLLOWING SUBSTANTIAL COMPLETION UPON APPROVAL BY CONSULTANT; FENCING LOCATIONS TO BE REVIEWED AND APPROVED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
21. THE CONTRACTOR IS EXPECTED TO PROVIDE MODULAR HOARDING FENCE AROUND ALL AREAS OF ACTIVE CONSTRUCTION. THE CONTRACTOR MAY REMOVE MODULAR FENCING ONLY UPON WRITTEN APPROVAL OF THE CONSULTANT THAT ACTIVE CONSTRUCTION AREA HAS BEEN SUBSTANTIALLY COMPLETED AND SAFE FOR PUBLIC USE.
22. NO HOARDING FENCING COMPONENT, INCLUDING BRACES AND FOOT SUPPORTS, SHALL ENCUMBER THE PUBLIC SIDEWALK AT ANY TIME.
23. CONTRACTOR SHALL SUPPLY AND INSTALL FILTER FABRIC ON ALL EXISTING CATCH BASINS AND UTILITIES THAT ARE TO REMAIN THAT MAY BE AFFECTED BY THE CONSTRUCTION. AS WELL, CONTRACTOR IS TO INSTALL FILTER FABRIC ON ALL NEW CATCH BASINS AND UTILITIES THAT MAY BE AFFECTED BY THE CONSTRUCTION. REMOVE ALL FILTER FABRIC UPON COMPLETION
24. REMOVE AND DISPOSE OF ALL ITEMS NECESSARY TO PERMIT NEW CONSTRUCTION
25. REMOVAL OF ITEMS INCLUDES FULL REMOVAL OF ANY FOOTINGS.
26. REMOVE ALL SOD AND SOIL AS MAY REQUIRED TO PERMIT NEW CONSTRUCTION.
27. THE COSTS ASSOCIATED WITH THE ABOVE ITEMS 1 THROUGH 26, WHERE SUCH COSTS ARE NOT IDENTIFIED SPECIFICALLY ON THE FORM OF TENDER (BID FORM) SHALL BE DEEMED TO BE INCLUDED IN BID ITEM A1.2.
28. ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN WHOLE OR IN PART IS FORBIDDEN WITHOUT THE CONSULTANT'S PERMISSION. DRAWINGS ARE NOT TO BE SCALED.



REFER TO THE FOLLOWING REPORTS:

GEOTECHNICAL INVESTIGATION BY GHD LIMITED
DATE: JULY 18, 2024



KEY MAP
N.T.S

LEGEND:

- 1 / D-0 — DETAIL # / SHEET #
- PROPERTY LINE
- CONSTRUCTION HOARDING FENCE
- SF — SEDIMENT CONTROL FENCE
- TREE PRESERVATION FENCE
- SITE ACCESS / EGRESS
- CONSTRUCTION SIGN
- EXISTING TREES TO REMAIN
- EXISTING TREES TO BE REMOVED PRIOR TO CONSTRUCTION; **BY OTHERS**
- EXISTING TREES TO BE REMOVED
- SITE REMOVALS
- MUD MAT

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no.	revision	date	by
R4	ISSUED FOR CONSTRUCTION	2024-10-29	JS
R3	ISSUED FOR ADDENDUM #1	2024-10-03	JS
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R1	ISSUED FOR REVIEW	2024-09-09	MN
R0	ISSUED FOR REVIEW	2021-08-13	JS

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NORTH

ASSOCIATION OF LANDSCAPE ARCHITECTS ONTARIO — PAUL A. GARDNER — OALA — October 29, 2024 — MEMBER

project number
2024-021

landscape planning
LANDSCAPE ARCHITECTS
Suite 207, 95 Mural Street, Richmond Hill, Ontario L4B 3G2,
Tel. 905.669.6838, www.landscapeplan.ca

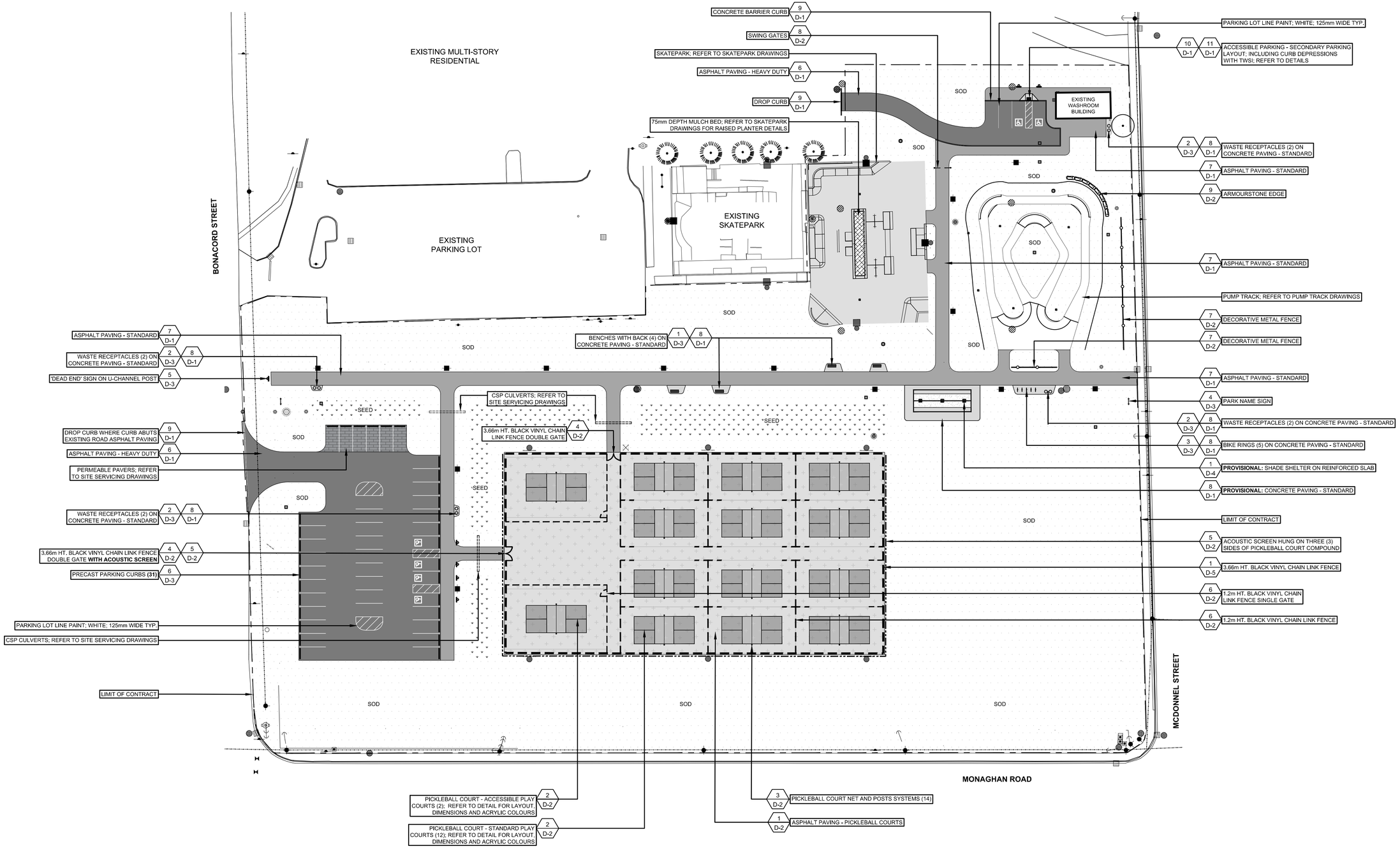
project title
BONNERWORTH PARK REDEVELOPMENT
560 MCDONNEL STREET, PETERBOROUGH, ONTARIO

client
CITY OF PETERBOROUGH

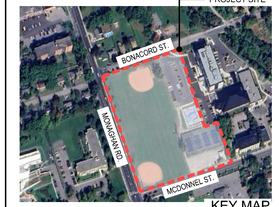
tender number
ITT-67-24

drawing title
EXISTING CONDITIONS / SITE PREPARATION PLAN

drawn by	reviewed by	drawing number:
JS	PG	EX-1
date: OCT. 2024	scale: 1:400	



NOTE:
1. REFER TO SPECIFICATIONS FOR TOPSOIL AND SOD REQUIREMENTS



KEY MAP
N.T.S

LEGEND:

- 1 / D-0 — DETAIL # / SHEET #
- LIMIT OF CONTRACT
- EXISTING TREES TO REMAIN
- ASPHALT PAVING - HEAVY DUTY
- ASPHALT PAVING - STANDARD
- CONCRETE PAVING - STANDARD
- REINFORCED SLAB
- ASPHALT PAVING - PICKLEBALL COURTS
- 1.2m HT. CHAIN LINK FENCE
- 3.66m HT. CHAIN LINK FENCE
- ACOUSTIFENCE PANELS
- DECORATIVE METAL FENCE
- BENCH WITH BACK
- SWING GATES
- SIGN ON U-CHANNEL POST
- BIKE RINGS
- WASTE RECEPTACLES (2)
- ARMOURSTONE EDGE

no.	revision	date	by
R4	ISSUED FOR CONSTRUCTION	2024-10-29	JS
R3	ISSUED FOR ADDENDUM #1	2024-10-03	JS
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R0	ISSUED FOR REVIEW	2021-08-13	JS

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ASSOCIATION OF ONTARIO LANDSCAPE ARCHITECTS — OALA — October 29, 2024 — MEMBER

project number
2024-021

landscape planning
LANDSCAPE ARCHITECTS
Suite 207, 95 Mural Street, Richmond Hill, Ontario L4B 3G2,
Tel. 905.669.6838, www.landscapeplan.ca

project title
BONNERWORTH PARK REDEVELOPMENT

560 MCDONNEL STREET,
PETERBOROUGH, ONTARIO

client
CITY OF PETERBOROUGH

tender number
ITT-67-24

drawing title
LANDSCAPE / SURFACE MATERIALS PLAN

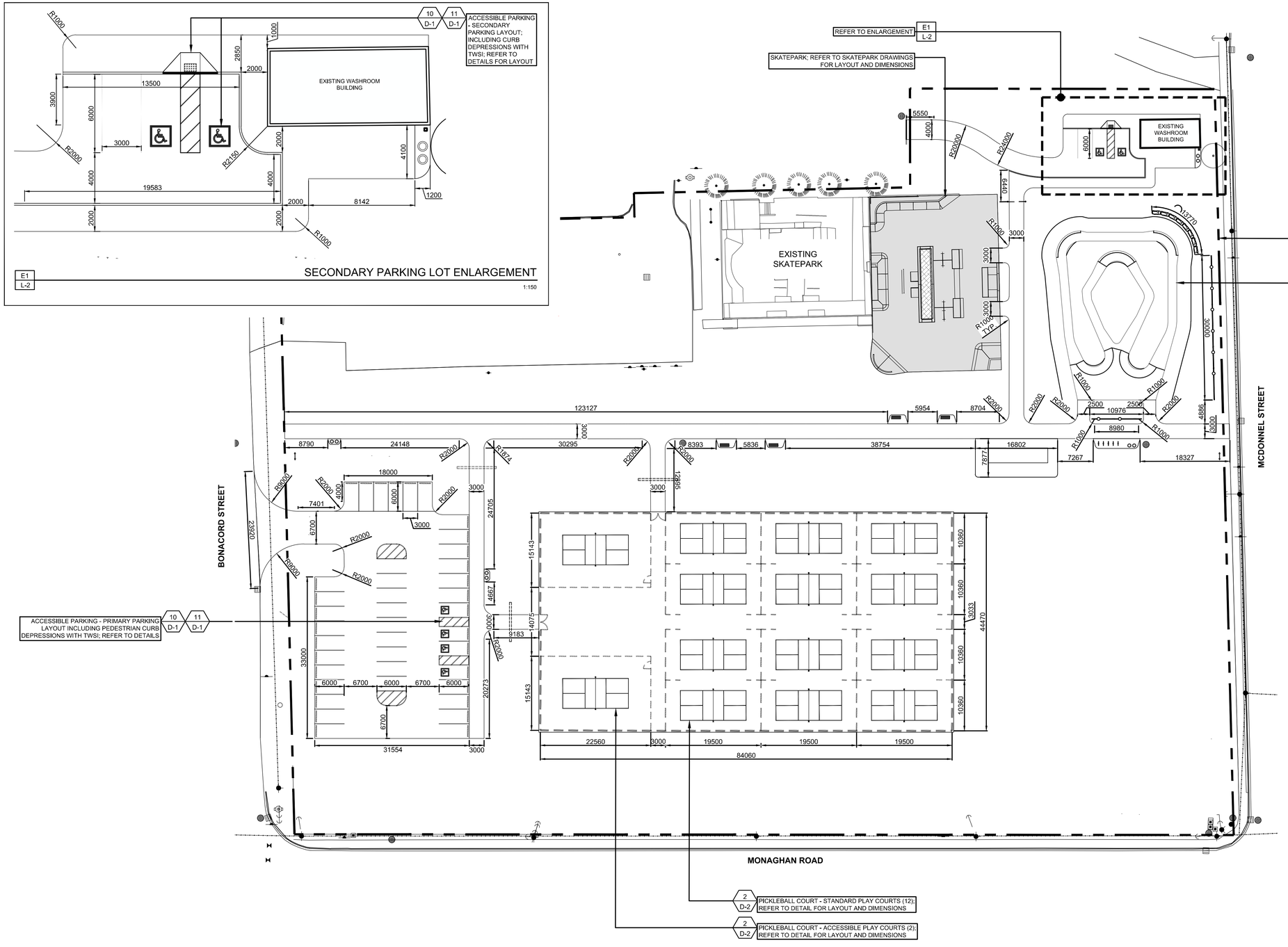
drawn by	reviewed by	drawing number:
JS	PG	L-1
date	scale	
OCT. 2024	1:400	

10 D-1 / 11 D-1 ACCESSIBLE PARKING - SECONDARY PARKING LAYOUT; INCLUDING CURB DEPRESSIONS WITH TWSI; REFER TO DETAILS FOR LAYOUT

E1 L-2

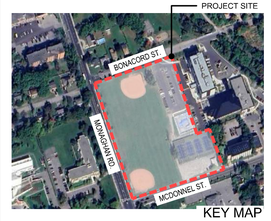
SECONDARY PARKING LOT ENLARGEMENT

1:150



NOTE:

1. CONTRACTOR WILL BE PROVIDED WITH CAD DRAWING SO LAYOUT CAN BE COMPLETED VIA GLOBAL POSITIONING SYSTEM (GPS)
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH THE WORK, AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING.
3. CONTRACTOR SHALL FIELD STAKE ALL PATHWAYS, CURBS AND FURNISHINGS FOR REVIEW AND APPROVAL BY THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING.



KEY MAP
N.T.S

LEGEND:

- 1 / D-0 — DETAIL # / SHEET #
- E4 / L-2 — ENLARGEMENT # / SHEET #
- PROPERTY LINE
- X — DIMENSION LINE

no.	revision	date	by
R4	ISSUED FOR CONSTRUCTION	2024-10-29	JS
R3	ISSUED FOR ADDENDUM #1	2024-10-03	JS
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ASSOCIATION OF LANDSCAPE ARCHITECTS ONTARIO — PAUL A. GARDNER — OALA — October 29, 2024 — MEMBER

project number
2024-021

landscape planning
LANDSCAPE ARCHITECTS
Suite 207, 95 Mural Street, Richmond Hill, Ontario L4B 3G2,
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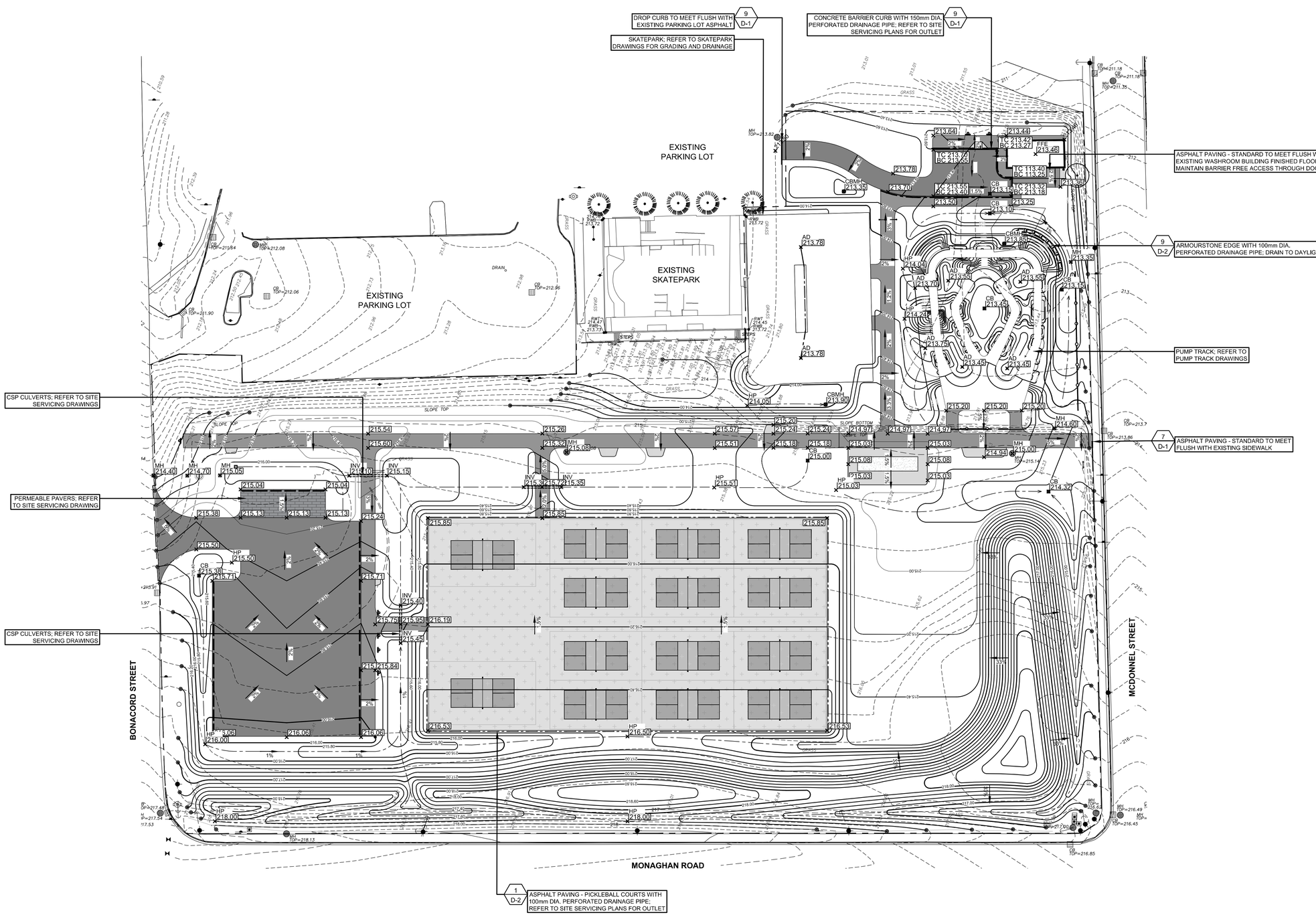
project title
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ITT-67-24

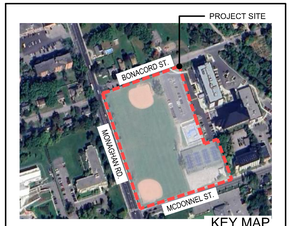
drawing title
LAYOUT PLAN

drawn by	reviewed by	drawing number:
JS	PG	L-2
date: OCT. 2024	scale: 1:400	



NOTE:

1. CONTRACTOR WILL BE PROVIDED WITH CAD DRAWING SO LAYOUT CAN BE COMPLETED VIA GLOBAL POSITIONING SYSTEM (GPS).
2. ALL DIMENSIONS AND SITE CONDITIONS TO BE VERIFIED BEFORE PROCEEDING WITH THE WORK, AND ANY DISCREPANCIES SHALL BE REPORTED TO THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING.
3. **REFER TO SITE SERVICING DRAWINGS.**
4. REFER TO SKATEPARK DRAWINGS FOR SKATEPARK GRADING PLAN.
5. REFER TO PUMP TRACK DRAWINGS FOR PUMP TRACK ELEVATIONS.



KEY MAP
N.T.S

LEGEND:

- 1 / D-0 — DETAIL # / SHEET #
- LIMIT OF CONTRACT
- EXISTING CONTOUR
- 100.00 — EXISTING SPOT ELEVATION
- 100.00 — PROPOSED SPOT ELEVATION
- TW - TOP OF WALL
- BW - BOTTOM OF WALL
- TC - TOP OF CURB
- BC - BOTTOM OF CURB
- HP - HIGH POINT
- AD - AREA DRAIN
- CB - CATCHBASIN RIM
- CBMH - CATCHBASIN MANHOLE RIM
- MH - MANHOLE RIM
- PROPOSED CONTOUR
- 2.0% — SWALE GRADIENT
- EXISTING MANHOLE
- MANHOLE
- CATCH BASIN
- CATCH BASIN MANHOLE
- AREA DRAIN
- ENHANCED GRASS SWALE WITH INFILTRATION TRENCH
- 100mm Ø PERFORATED DRAINAGE PIPE
- 150mm Ø PERFORATED DRAINAGE PIPE
- ARMOURSTONE EDGE

no.	revision	date	by
R4	ISSUED FOR CONSTRUCTION	2024-10-29	JS
R3	ISSUED FOR ADDENDUM #1	2024-10-03	JS
R2	ISSUED FOR TENDER	2024-09-27	JS
R1	ISSUED FOR REVIEW	2024-09-09	MN
R0	ISSUED FOR REVIEW	2021-08-13	JS

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NORTH

ASSOCIATION OF LANDSCAPE ARCHITECTS ONTARIO — PAUL A. GARDNER — OALA — October 29, 2024 — MEMBER

project number
2024-021

landscape planning
LANDSCAPE ARCHITECTS
Suite 207, 95 Mural Street, Richmond Hill, Ontario L4B 3G2,
Tel. 905.669.6838, www.landscapeplan.ca

project title
BONNERWORTH PARK REDEVELOPMENT

560 MCDONNEL STREET, PETERBOROUGH, ONTARIO

client
CITY OF PETERBOROUGH

tender number
ITT-67-24

drawing title
GRADING AND DRAINAGE PLAN

drawn by	reviewed by	drawing number:
JS	PG	L-3
date: OCT. 2024	scale: 1:400	

PLANT LIST

DECIDUOUS TREES

Count	Key	BOTANICAL NAME	COMMON NAME	CALIPER	HEIGHT	ROOT	SPREAD	NOTE
13	AMB	Amelanchier canadensis "Ballerina"	Ballerina Serviceberry	60mm	-	W.B.	-	-
16	ULA	Ulmus japonica x wilsoniana 'Morton'	Accolade Elm	60mm		W.B.		Single Stem
3	QRF	Quercus robur "Fastigiata"	Pyramidal English Oak	60mm	-	W.B.	-	-
16	GTH	Gleditsia triacanthos inermis "Shademaster"	Shademaster Honey-locust	60mm	-	W.B.	-	-
18	LT	Liriodendron tulipifera	Tulip Tree	60mm	-	W.B.	-	-
15	ASA	Acer saccharum	Sugar Maple	60mm	-	W.B.	-	-
16	PT	Populus tremuloides	Trembling Aspen	60mm	-	W.B.	-	-
17	SGI	Syringa reticula "Ivory Silk"	Ivory Silk Tree Lilac	60mm	-	W.B.	-	-
10	AFJ	Acer x freemanii "Jeffersred"	Autumn Blaze Maple	60mm	-	W.B.	-	-

CONIFEROUS TREES

Count	Key	BOTANICAL NAME	COMMON NAME	CALIPER	HEIGHT	ROOT	SPREAD	NOTE
31	PG	Picea glauca	White Spruce	-	250cm	W.B.	-	-
20	PPG	Picea pungens "Glauca"	Blue Colorado Spruce	-	250cm	W.B.	-	Single Stem
27	PST	Pinus strobus	White Pine	-	250cm	W.B.	-	-

NOTES:

1. CONTRACTOR SHALL OBTAIN STAKEOUTS FROM ALL UTILITIES PRIOR TO LANDSCAPE INSTALLATIONS.
2. REFER TO SPECIFICATIONS FOR PLANTING, TOPSOIL, AND SOD REQUIREMENTS.

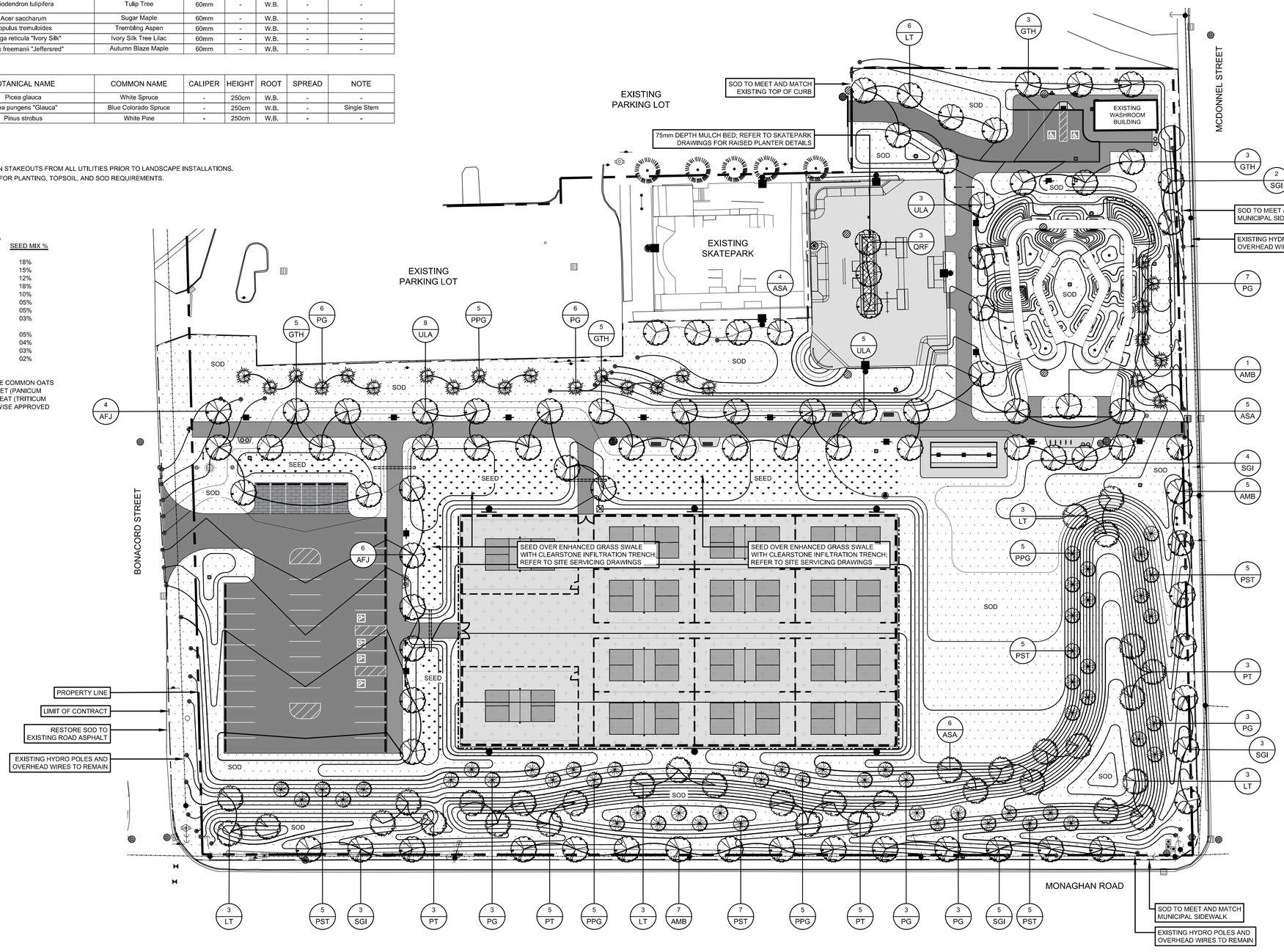
SEED MIX:

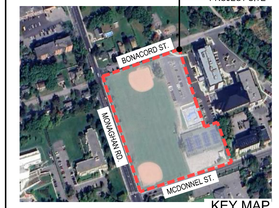
WET MEADOW SEED:

MIN.% GERMINATION: 70%
MAX % OF WEED: 3.00%

SEED MIX:	SEED MIX %
GRASSES, SEDGES	
Virginia Wild Rye	18%
Riverbank Wild Rye	15%
Big Blue Stem	12%
Fowl Bluegrass	16%
Fowl Mannagrass	10%
Soft Rush	05%
Wool Grass	05%
Canada Bluejoint	03%
FORBS	
Blue Vervain	05%
Black Eyed Susan	04%
New England Aster	03%
Boneset	02%

NOTE:
1. NURSE CROP SEED SHALL BE COMMON OATS (AVENA SATIVA), WHITE MILLET (PANICUM MILIACEUM), OR WINTER WHEAT (TRITICUM AESTIVUM) UNLESS OTHERWISE APPROVED BY THE CONSULTANT.





KEY MAP
N.T.S

LEGEND:

- 1 / D-0 — DETAIL # / SHEET #
- QNT / KEY — QUANTITY / PLANT KEY
- LIMIT OF CONTRACT
- EXISTING TREES TO REMAIN
- DECIDUOUS TREE
- DECIDUOUS TREE (BERM PLANTING)
- CONIFEROUS TREE
- CONIFEROUS TREE (BERM PLANTING)
- SOD
- MULCH BED
- SEED

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ASSOCIATION OF LANDSCAPE ARCHITECTS ONTARIO — PAUL A. GARDNER — OALA — October 29, 2024 — MEMBER

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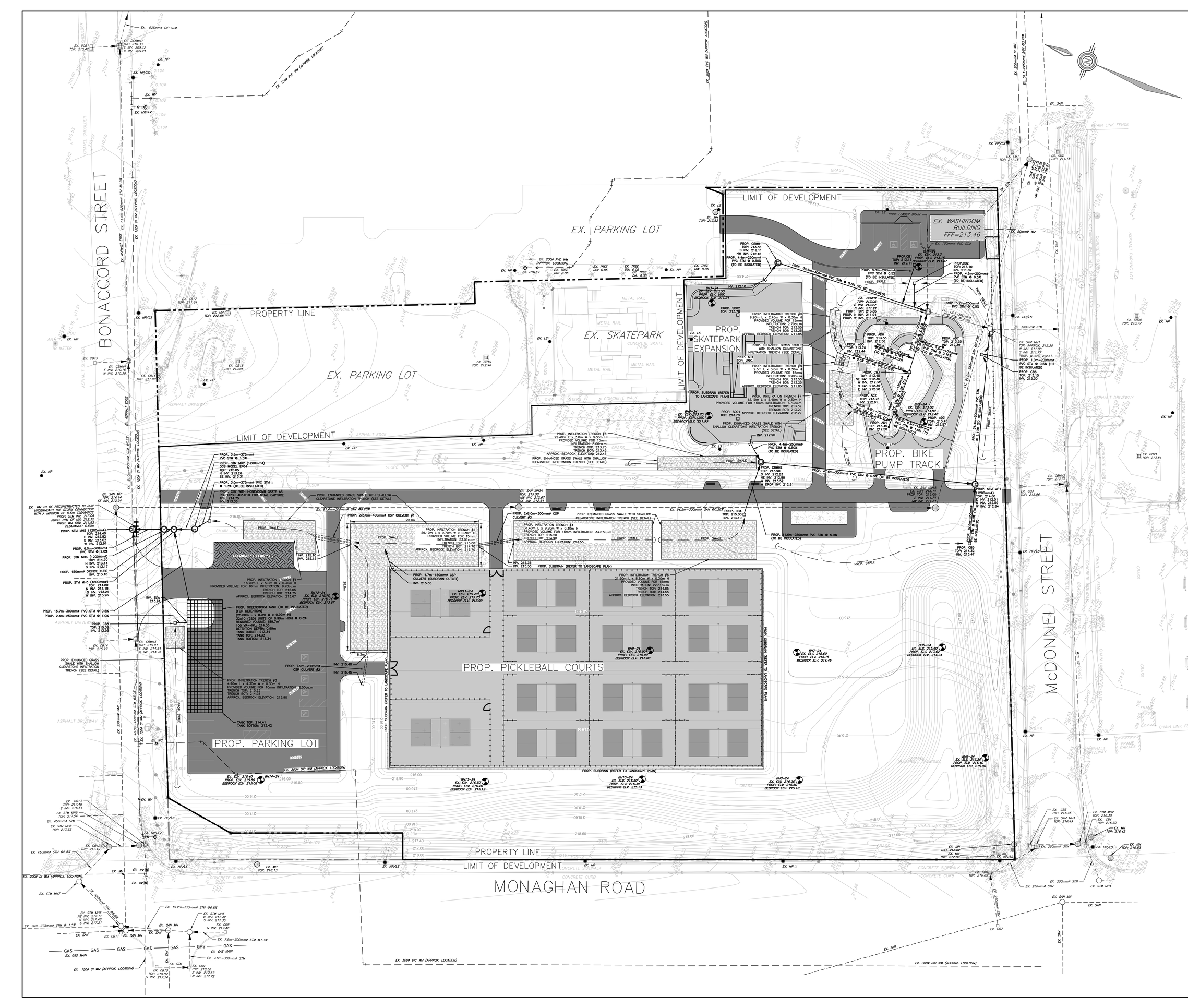
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CITY OF PETERBOROUGH

tender number
ITT-67-24

drawing title
PLANTING PLAN

drawn by	reviewed by	drawing number:
JS	PG	L-4
date	scale	
OCT. 2024	1:400	


BONACCORD STREET
McDONNEL STREET
MONAGHAN ROAD
LIMIT OF DEVELOPMENT
PROPERTY LINE
EX. PARKING LOT
EX. SKATEPARK
PROP. SKATEPARK EXPANSION
EX. WASHROOM BUILDING FFF=213.46
PROP. BIKE PUMP TRACK
PROP. PICKLEBALL COURTS
PROP. PARKING LOT
PROP. GREENSTORM TANK (TO BE INSULATED) (FOR DETENTION) (25.60m L x 8.0m W x 0.99m H) 32x10 (320) UNITS OF 0.99m HIGH @ 0.3% REQUIRED VOLUME: 189.7m³ 100 YR-HWL: 214.33 DETENTION DEPTH: 0.99m TANK OUTLET: 213.34 TANK TOP: 214.33 TANK BOTTOM: 213.34
TANK TOP: 214.41 TANK BOTTOM: 213.42
EX. 525mmø CIP STM
EX. 150ø PVC WM (APPROX. LOCATION)
EX. 200ø PVC WM (APPROX. LOCATION)
EX. 150ø CI WM (APPROX. LOCATION)
EX. 300ø DIC WM (APPROX. LOCATION)
EX. 200ø DI WM (APPROX. LOCATION)
EX. 250mmø SAN
EX. 375mmø STM
EX. 450mmø STM
EX. 1.5m-525mmø STM @1.0%
EX. 61.0m-450mmø STM @1.5%
EX. 44.8m-450mmø STM @1.5%
EX. 97.4m-300mmø SAN @2.25%
EX. 84.5m-300mmø SAN @0.26%
EX. 230mmø CI SW
EX. 511.-225mmø SAN @0.70%
EX. 50mmø WM
EX. 300mmø STM
EX. 1.5m-375mmø STM @1.0%
EX. 61.8m-300mmø STM @0.5%
EX. 41.6m-250mmø SAN @1.72%
EX. 150mmø PVC STM
EX. 200ø PVC WM (APPROX. LOCATION)
EX. ASPHALT EDGE
EX. GAS MAIN
EX. SAN
EX. STM
EX. SAN MH
EX. STM MH
EX. CB
EX. CBMH
EX. HP
EX. HP/LS
EX. WV
EX. HYD+V
EX. LS
EX. TREE DIA: 0.05
EX. MH TOP: 212.08
EX. CB17 TOP: 211.64
EX. CB15
EX. CBMH1 E INV. 210.16 W INV. 210.38
EX. CB16 TOP: 212.06
EX. CB18 TOP: 211.90
EX. CB19 TOP: 212.96
EX. CB13 TOP: 217.48 E INV. 216.51
EX. STM MH9 TOP: 217.54
EX. STM MH8 TOP: 217.53
EX. CB12 TOP: 217.49
EX. STM MH7
EX. SAN MH TOP: 214.14 SE INV. 212.94
EX. WM TO BE RECONSTRUCTED TO RUN UNDERNEATH THE STORM CONNECTION WITH A MINIMUM OF 0.5m CLEARANCE
EX. STM MH5 TOP: 215.05 N INV. 213.26 SE. INV. 213.31
EX. STM MH6 NE INV. 217.11 N INV. 217.48 S INV. 217.21
EX. 15.2m-375mmø STM @6.8%
EX. 7.9m-300mmø STM @1.3%
EX. 7.6m-300mmø STM
EX. CB11
EX. CB10 TOP: 216.87 S INV. 217.74
EX. CB9 TOP: 218.50 E INV. 217.57 N INV. 217.72
EX. STM MH8 W INV. 217.42 S INV. 217.35
EX. CB8 N INV. 217.46
EX. STM MH2 TOP: 216.38
EX. CB4 TOP: 216.30
EX. MH TOP: 216.42
EX. MH TOP: 216.53
EX. CB5 TOP: 216.45
EX. STM MH3 TOP: 216.49
EX. CB6 TOP: 216.80
EX. CB7
EX. CB1 TOP: 211.18
EX. CB2 TOP: 211.18
EX. MH1/2 TOP: 213.63 NE INV. 209.78 NW INV. 209.66
EX. CB20 TOP: 213.77
EX. CB21 TOP: 213.81
EX. CBMH2 TOP: 213.79
EX. CB3 TOP: 213.86
EX. STM MH1 TOP: 214.60 E INV. 212.51 W INV. 212.59 N INV. 212.64
EX. STM MH4 TOP: 215.74 PROP. TOP: 215.00 E INV. 211.74 NW INV. 211.61
EX. CBMH3 TOP: 213.79
PROP. CBMH1 TOP: 213.35 S INV: 212.11 NW INV. 212.16
PROP. 4.4m-250mmø PVC STM @ 0.50% (TO BE INSULATED)
PROP. CB1 TOP: 213.15 BEDROCK ELV: 211.97 INV. 212.11
PROP. CB2 TOP: 213.10 INV. 211.97
PROP. 4.9m-200mmø PVC STM @ 0.5% (TO BE INSULATED)
PROP. 8.8m-200mmø PVC STM @ 0.5% (TO BE INSULATED)
PROP. 34.6m-300mmø PVC STM @ 0.5% (TO BE INSULATED)
PROP. 3.2m-250mmø PVC STM @ 0.5%
PROP. 5.2m-150mmø PVC STM @ 1.0% (TO BE INSULATED)
PROP. 1.0m-200mmø PVC STM @ 0.5% (TO BE INSULATED)
PROP. CB6 TOP: 213.15 INV. 212.30
PROP. 47.6m-300mmø PVC STM @ 0.5% (TO BE INSULATED)
PROP. 11.6m-250mmø PVC STM @ 5.0%
PROP. CB5 TOP: 214.32 INV. 213.47
PROP. 4.7m-150mmø CSP CULVERT (SUBDRAIN OUTLET) INV. 215.35
PROP. 2x8.0m-400mmø CSP CULVERT #1
PROP. 2x8.0m-300mmø CSP CULVERT #3
PROP. 7.9m-200mmø CSP CULVERT #2
PROP. 15.7m-300mmø PVC STM @ 0.5%
PROP. 2.4m-250mmø PVC STM @ 1.0%
PROP. CB8 TOP: 215.38 INV. 213.83
PROP. 3.5m-375mmø PVC STM @ 1.3%
PROP. STM MH2 (1200mmø) OGS MODEL: EF04 TOP: 215.05 N INV. 213.26 SE. INV. 213.31
PROP. 3.0m-375mmø PVC STM @ 1.3% (TO BE INSULATED)
PROP. CB7 WITH HONEYCOMB GRATE AS PER SPEC 403.010 FOR TOTAL CAPTURE TOP: 214.75 INV. 213.35
PROP. STM MH5 (1200mmø) TOP: 214.40 E INV. 212.82 S INV. 213.02 W INV. 212.91
PROP. 5.0m-300mmø PVC STM @ 2.0%
PROP. STM MH4 (1200mmø) TOP: 214.70 N INV. 213.14 S INV. 213.17
PROP. 150mmø ORIFICE TUBE INV. 213.18
PROP. STM MH3 (1800mmø) TOP: 214.80 N INV. 213.18 S INV. 213.21 W INV. 213.28
PROP. 3.2m-300mmø SAN @0.25%
PROP. 4.4m-250mmø PVC STM @ 0.50% (TO BE INSULATED)
PROP. 47.6m-300mmø PVC STM @ 0.5% (TO BE INSULATED)
PROP. 34.6m-300mmø PVC STM @ 0.5% (TO BE INSULATED)
PROP. SWALE
PROP. ENHANCED GRASS SWALE WITH SHALLOW CLEARSTONE INFILTRATION TRENCH (SEE DETAIL)
PROP. SUBDRAIN (REFER TO LANDSCAPE PLAN)
PROP. INFILTRATION TRENCH #1 16.70m L x 3.0m W x 0.30m H PROVIDED VOLUME FOR 10mm INFILTRATION: 5.00cu.m TRENCH TOP: 215.05 TRENCH BOT: 214.75 APPROX. BEDROCK ELEVATION: 213.67
PROP. INFILTRATION TRENCH #2 29.10m L x 9.70m W x 0.30m H PROVIDED VOLUME FOR 15mm INFILTRATION: 53.01cu.m TRENCH TOP: 215.00 TRENCH BOT: 214.70 APPROX. BEDROCK ELEVATION: 213.70
PROP. INFILTRATION TRENCH #3 21.60m L x 8.80m W x 0.30m H PROVIDED VOLUME FOR 15mm INFILTRATION: 22.81cu.m TRENCH TOP: 214.85 TRENCH BOT: 214.55 APPROX. BEDROCK ELEVATION: 213.55
PROP. INFILTRATION TRENCH #4 31.40m L x 9.20m W x 0.30m H PROVIDED VOLUME FOR 15mm INFILTRATION: 34.67cu.m TRENCH TOP: 215.20 TRENCH BOT: 214.90 APPROX. BEDROCK ELEVATION: 213.55
PROP. INFILTRATION TRENCH #5 4.80m L x 4.30m W x 0.30m H PROVIDED VOLUME FOR 10mm INFILTRATION: 2.50cu.m TRENCH TOP: 215.23 TRENCH BOT: 214.93 APPROX. BEDROCK ELEVATION: 213.93
PROP. INFILTRATION TRENCH #6 22.40m L x 3.0m W x 0.30m H PROVIDED VOLUME FOR 15mm INFILTRATION: 8.06cu.m TRENCH TOP: 213.75 TRENCH BOT: 213.45 APPROX. BEDROCK ELEVATION: 212.45
PROP. INFILTRATION TRENCH #7 12.10m L x 5.40m W x 0.30m H PROVIDED VOLUME FOR 15mm INFILTRATION: 7.70cu.m TRENCH TOP: 213.59 TRENCH BOT: 213.29 APPROX. BEDROCK ELEVATION: 212.29
PROP. INFILTRATION TRENCH #8 2.5m L x 3.20m W x 0.30m H PROVIDED VOLUME FOR 15mm INFILTRATION: 0.95cu.m TRENCH TOP: 213.55 TRENCH BOT: 213.25 APPROX. BEDROCK ELEVATION: 211.85
BH1-24 EX. ELV: 213.50 PROP. ELV: UNK BEDROCK ELV: 211.24
BH2-24 EX. ELV: 213.18 PROP. ELV: UNK BEDROCK ELV: 211.24
BH3-24 EX. ELV: 213.70 PROP. ELV: UNK BEDROCK ELV: 211.85
BH4-24 EX. ELV: 213.60 PROP. ELV: 213.60 BEDROCK ELV: 212.46
BH5-24 EX. ELV: 215.60 PROP. ELV: 217.62 BEDROCK ELV: 214.24
BH6-24 EX. ELV: 215.90 PROP. ELV: 215.90 BEDROCK ELV: 215.00
BH7-24 EX. ELV: 215.60 PROP. ELV: 215.15 BEDROCK ELV: 214.45
BH8-24 EX. ELV: 216.20 PROP. ELV: 216.42 BEDROCK ELV: 215.06
BH8-24 EX. ELV: 216.30 PROP. ELV: 215.60 BEDROCK ELV: 215.10
BH9-24 EX. ELV: 215.70 PROP. ELV: 215.70 BEDROCK ELV: 213.90
BH10-24 EX. ELV: 216.60 PROP. ELV: 216.30 BEDROCK ELV: 215.73
BH11-24 EX. ELV: 216.50 PROP. ELV: 216.20 BEDROCK ELV: 215.12
BH12-24 EX. ELV: 215.70 PROP. ELV: 215.70 BEDROCK ELV: 213.67
BH13-24 EX. ELV: 216.40 PROP. ELV: 215.80 BEDROCK ELV: 215.08
BH14-24 EX. ELV: 216.40 PROP. ELV: 215.80 BEDROCK ELV: 215.08
PROP. 4.9m-150mmø PVC STM @ 1.0% (TO BE INSULATED)
PROP. 8.5m-150mmø PVC STM @ 1.0% (TO BE INSULATED)
PROP. 9.5m-150mmø PVC STM @ 1.0% (TO BE INSULATED)
PROP. 1.5m-150mmø PVC STM @ 1.0% (TO BE INSULATED)
PROP. 5.0m-150mmø PVC STM @ 1.0% (TO BE INSULATED)
PROP. 5.2m-150mmø PVC STM @ 1.0% (TO BE INSULATED)
PROP. 1.5m-150mmø PVC STM @ 1.0% (TO BE INSULATED)
PROP. AD1 TOP: 213.55 INV. 212.39
PROP. AD2 TOP: 213.75 INV. 212.61
PROP. AD3 TOP: 213.45 INV. 212.57
PROP. AD4 TOP: 213.40 INV. 212.55
PROP. AD5 TOP: 213.55 INV. 212.56
PROP. AD6 TOP: 213.55 INV. 212.56
PROP. AD7 TOP: 213.70 INV. 212.44
PROP. CB3 TOP: 213.45 SE INV. 212.36 W INV. 212.31 N INV. 212.36 E INV. 212.28
PROP. SD01 TOP: 213.78
PROP. SD02 TOP: 213.78
PROP. SD03 TOP: UNK
PROP. SD01 TOP: 213.78
PROP. CBMH2 TOP: 213.90 S INV. 212.83 NE INV. 212.88 W INV. 213.53 DROP INV. 212.91
PROP. STM MH1 (1200mmø) TOP: 214.60 E INV. 212.51 W INV. 212.59 N INV. 212.64
EX. SAN MH24 TOP: 215.08 HW INV. 212.67 SE INV. 212.57
EX. SAN MH25 TOP: 215.74 PROP TOP: 215.00 E INV. 211.74 NW INV. 211.61
PROP. CB4 TOP: 215.00 INV. 214.10
PROP. CB5 TOP: 214.32 INV. 213.47
PROP. CB6 TOP: 213.15 INV. 212.30
PROP. 1.0m-200mmø PVC STM @ 0.5% (TO BE INSULATED)
PROP. 3.2m-250mmø PVC STM @ 0.5%
PROP. 5.2m-150mmø PVC STM @ 1.0% (TO BE INSULATED)
PROP. 4.9m-150mmø PVC STM @ 1.0% (TO BE INSULATED)
PROP. 9.5m-150mmø PVC STM @ 1.0% (TO BE INSULATED)
PROP. 1.5m-150mmø PVC STM @ 1.0% (TO BE INSULATED)
PROP. 5.0m-150mmø PVC STM @ 1.0% (TO BE INSULATED)
PROP. 1.5m-150mmø PVC STM @ 1.0% (TO BE INSULATED)
PROP. 12.6m-250mmø PVC STM @ 0.5% (TO BE INSULATED)
PROP. 8.8m-200mmø PVC STM @ 0.5% (TO BE INSULATED)
PROP. 4.9m-200mmø PVC STM @ 0.5% (TO BE INSULATED)
PROP. 3.2m-250mmø PVC STM @ 0.5%
PROP. 1.0m-200mmø PVC STM @ 0.5% (TO BE INSULATED)
PROP. CB6 TOP: 213.15 INV. 212.30
PROP. 34.6m-300mmø PVC STM @ 0.5% (TO BE INSULATED)

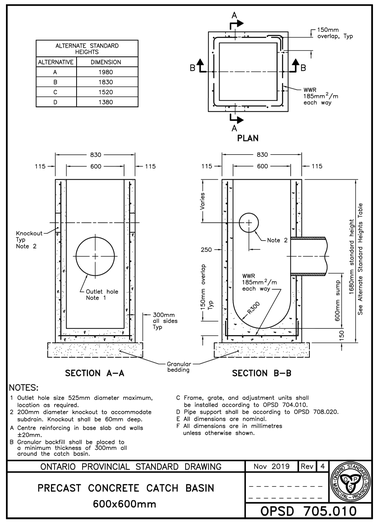
CONSTRUCTION NOTES:

GENERAL:

1. ALL WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH CURRENT MUNICIPAL, AND ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS.
2. ALL CONSTRUCTION SIGNING MUST CONFORM TO THE M.T.O. MANUAL OF "UNIFORM TRAFFIC CONTROL DEVICES".
3. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT". THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONTRACTOR AS DEFINED IN ACT.
4. THE CONTRACTOR SHALL OBTAIN ALL RELEVANT PERMITS.
5. CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE MUNICIPALITY FOR WORK WITHIN PUBLIC RIGHTS-OF-WAY.
6. FOR BUILDING LOCATION SITE LAYOUT AND BOUNDARY INFORMATION REFER TO ARCHITECTURAL SITE PLAN.
7. EXACT LOCATION AND ELEVATION OF EXISTING SERVICES AND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY EXCAVATION. THE LOCATION OF ALL UNDER/ABOVE GROUND UTILITIES AND STRUCTURES IS APPROXIMATE ONLY, AND WHERE SHOWN ON THE DRAWING(S), THE ACCURACY OF THE LOCATION OF SUCH UTILITIES IS NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL SUCH UTILITIES AND STRUCTURES BY CONSULTING THE APPROPRIATE AUTHORITIES OR UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVE THE LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE OR RESTORATION TO SAME.
8. CONTRACTOR TO CONFIRM INVERT ELEVATION OF EXISTING SERVICES PRIOR TO STARTING CONSTRUCTION. ANY DISCREPANCIES TO BE REPORTED TO ENGINEER.

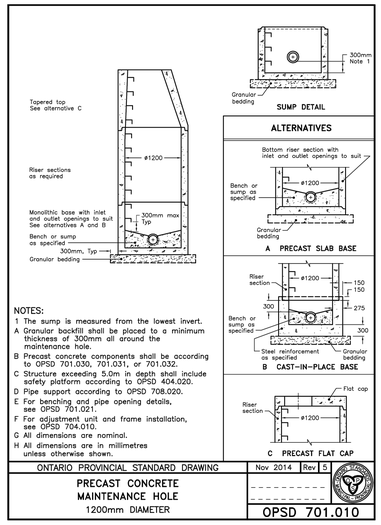
STORM SEWERS:

1. MAINTENANCE HOLES (MHs) TO BE PRECAST AS PER OPSD 701.01 AND BENCHED IN ACCORDANCE WITH CITY STANDARDS.
2. STORM SEWERS UP TO AND INCLUDING 450mm DIAMETER SHALL BE ULTRA-RIB PVC (OR APPROVED EQUAL) WITH BEDDING AS PER OPSD 802.01, UNLESS OTHERWISE NOTED. CONCRETE PIPE LARGER THAN 450mm DIAMETER TO BE CLASS 100-D WITH CLASS 'B' BEDDING AS PER OPSD 802.03. ALL SEWER PIPE SHALL HAVE RUBBER GASKET JOINTS.
3. SINGLE CATCHBASIN SHALL BE AS PER OPSD 705.010. CATCHBASIN LEADS TO BE 250mm DIAMETER, AT 2% UNLESS OTHERWISE NOTED.
4. DOUBLE CATCHBASINS SHALL BE AS PER OPSD 705.020. LEADS TO BE 300mm DIAMETER AT 2% UNLESS OTHERWISE NOTED.
5. CULVERTS TO BE CORRUGATED STEEL PIPE HAVING MINIMUM DIAMETER OF 400mm AND MINIMUM 1.6mm THICKNESS. CULVERTS TO BE INSTALLED WITH MANUFACTURED END SECTIONS.



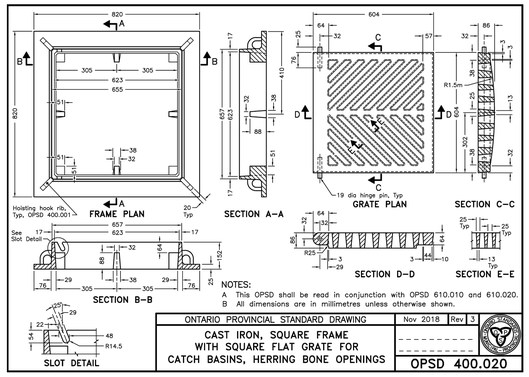
NOTES:
1 Outlet hole size 525mm diameter maximum, location as required.
2 200mm diameter knockout to accommodate subdrain. Knockout shall be 60mm deep.
A Centre reinforcing in base slab and walls ±20mm.
B Granular backfill shall be placed to a minimum thickness of 300mm all around the catch basin.
C Frame, grate, and adjustment units shall be installed according to OPSD 704.010.
D Pipe support shall be according to OPSD 708.020.
E All dimensions are nominal.
F All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2019	Rev 4
PRECAST CONCRETE CATCH BASIN 600x600mm		OPSD 705.010



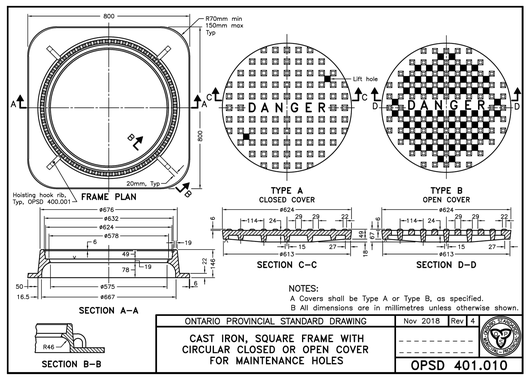
NOTES:
A The sump is measured from the lowest invert.
A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
B Precast concrete components shall be according to OPSD 701.030, 701.031, or 701.032.
C Structure exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.
D Pipe support according to OPSD 708.020.
E For benching and pipe opening details, see OPSD 701.021.
F For adjustment unit and frame installation, see OPSD 704.010.
G All dimensions are nominal.
H All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev 5
PRECAST CONCRETE MAINTENANCE HOLE 1200mm DIAMETER		OPSD 701.010



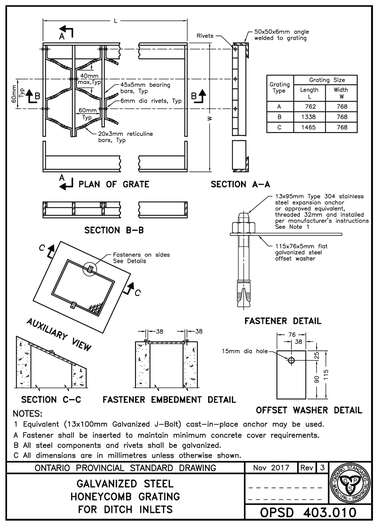
NOTES:
A This OPSD shall be read in conjunction with OPSD 610.010 and 610.020.
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2018	Rev 3
CAST IRON, SQUARE FRAME WITH SQUARE FLAT GRATE FOR CATCH BASINS, HERRING BONE OPENINGS		OPSD 400.020



NOTES:
A Covers shall be Type A or Type B, as specified.
B All dimensions are in millimetres unless otherwise shown.

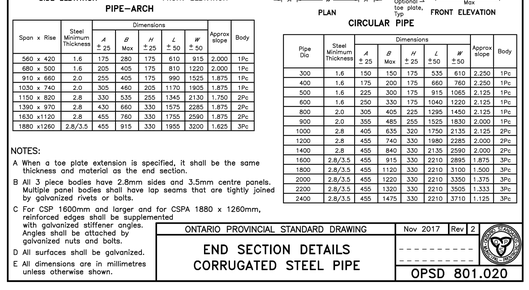
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2018	Rev 4
CAST IRON, SQUARE FRAME WITH CIRCULAR CLOSED OR OPEN COVER FOR MAINTENANCE HOLES		OPSD 401.010



Grating Type	Grating Size Length L	Width W
A	762	768
B	1338	768
C	1465	768

NOTES:
1 Equivalent (13x100mm Galvanized J-Bolt) cast-in-place anchor may be used.
A Fastener shall be inserted to maintain minimum concrete cover requirements.
B All steel components and rivets shall be galvanized.
C All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2017	Rev 3
GALVANIZED STEEL HONEYCOMB GRATING FOR DITCH INLETS		OPSD 403.010



Span x Rise	Steel Minimum Thickness	Dimensions A ±25	B Max	H ±25	L ±50	W ±50	Approx slope	Body
560 x 420	1.6	175	280	175	610	915	2.000	1Pc
680 x 500	1.6	205	405	175	810	1220	2.000	1Pc
910 x 660	2.0	255	405	175	990	1525	1.875	1Pc
1030 x 740	2.0	305	460	205	1170	1905	1.875	1Pc
1150 x 820	2.8	330	535	255	1345	2130	1.750	2Pc
1390 x 970	2.8	430	660	330	1575	2285	1.875	2Pc
1630 x1120	2.8	455	760	330	1755	2590	1.875	2Pc
1880 x1260	2.8/3.5	455	915	330	1955	3200	1.625	3Pc

Pipe Dia	Steel Minimum Thickness	Dimensions A ±25	B Max	H ±25	L ±50	W ±50	Approx slope	Body
300	1.6	150	150	175	535	610	2.250	1Pc
400	1.6	175	200	175	660	760	2.250	1Pc
500	1.6	225	300	175	915	1065	2.125	1Pc
600	1.6	250	330	175	1040	1220	2.125	1Pc
800	2.0	305	405	225	1295	1450	2.125	1Pc
900	2.0	355	485	255	1525	1830	2.000	1Pc
1000	2.8	405	635	320	1750	2135	2.125	2Pc
1200	2.8	455	740	330	1980	2285	2.000	2Pc
1400	2.8	455	840	330	2135	2590	2.000	2Pc
1600	2.8/3.5	455	915	330	2210	2895	1.875	3Pc
1800	2.8/3.5	455	1120	330	2210	3100	1.500	3Pc
2000	2.8/3.5	455	1220	330	2210	3350	1.375	3Pc
2200	2.8/3.5	455	1320	330	2210	3505	1.333	3Pc
2400	2.8/3.5	455	1475	330	2210	3710	1.125	3Pc

NOTES:
A When a toe plate extension is specified, it shall be the same thickness and material as the end section.
B All 3 piece bodies have 2.8mm sides and 3.5mm centre panels. Multiple panel bodies shall have lap seams that are tightly joined by galvanized rivets or bolts.
C For CSP 1600mm and larger and for CSPA 1880 x 1260mm, reinforced edges shall be supplemented with galvanized stiffener angles. Angles shall be attached by galvanized nuts and bolts.
D All surfaces shall be galvanized.
E All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2017	Rev 2
END SECTION DETAILS CORRUGATED STEEL PIPE		OPSD 801.020



KEY PLAN
N.T.S

LEGEND:

METRIC:
DISTANCES AND COORDINATES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

BEARING:
BEARINGS SHOWN HEREON ARE UTM GRID, DERIVED FROM SPECIFIED CONTROL POINTS No.09919940020 AND No.9920000089 SHOWN HEREON, UTM ZONE 17, NAD 83 (ORIGINAL)

DISTANCES SHOWN HEREON ARE GROUND DISTANCES AND CAN BE CONVERTED TO GRID DISTANCES BY MULTIPLYING BY A COMBINED SCALE FACTOR OF 1.00012625.

NO.	DATE	REVISIONS	BY
3.	OCT. 04/24	ISSUED FOR TENDER – ADDENDUM #1	D.G.
2.	SEP. 27/24	ISSUED FOR TENDER	D.G.
1.	SEP. 24/24	AS PER REVISED GRADING PLAN	D.G.

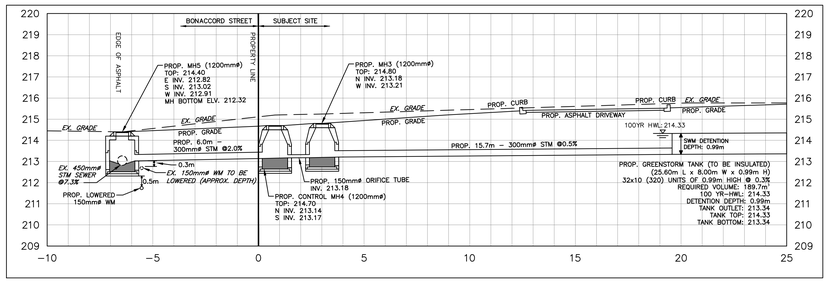
LICENCED PROFESSIONAL ENGINEER D. A. GUGONZA OCT.04/24 PROVINCE OF ONTARIO

VALDOR ENGINEERING INC.
Consulting Engineers - Project Managers
571 CHEMONG ROAD, UNIT 4, PETERBOROUGH, ONTARIO, CANADA K9J 6X2
TEL (705)742-0700 FAX (705)742-0291
E-MAIL info@valdor-engineering.com
www.valdor-engineering.com

BONNERWORTH PARK IMPROVEMENT
560 McDONNEL ST
CITY OF PETERBOROUGH

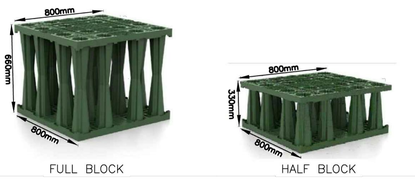
NOTES & DETAILS PLAN

SCALE	DATE OF DWG.	PROJECT NO.
AS SHOWN	SEPT. 24, 2024	24124
DRAWN BY: A.M.	DRAWING NO.	
CHKD BY: D.G	DET-1	



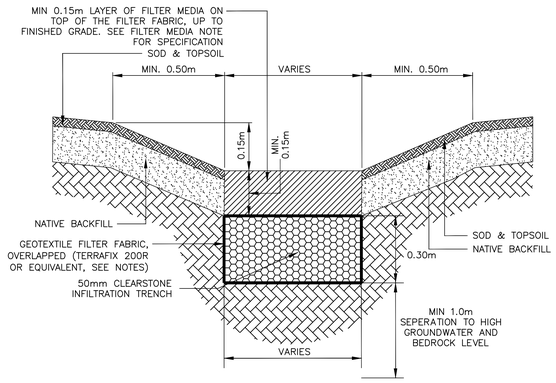
STORM SERVICE CROSS–SECTION A–A

1:100



STANDARD GREENSTORM BLOCK DETAILS

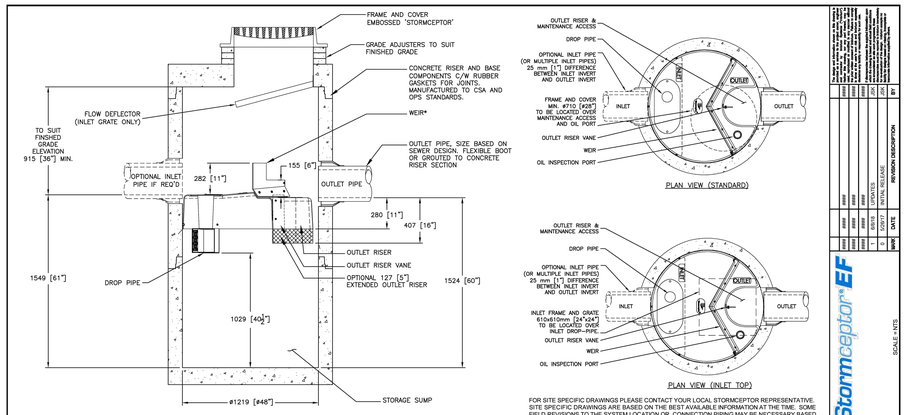
N.T.S.



ENHANCED GRASS SWALE WITH UNDERDRAIN

N.T.S

INFILTRATION TRENCH LOCATION	LOWEST SWALE ELEVATION (m)	TRENCH BOTTOM ELEVATION (m)	APPROX. BEDROCK ELEVATION (m)	SEPARATION TO BEDROCK (m)
TRENCH #1	215.20	214.75	213.67	1.08
TRENCH #2	215.15	214.70	213.70	1.00
TRENCH #3	215.38	214.93	213.90	1.03
TRENCH #4	215.35	214.90	213.55	1.35
TRENCH #5	215.00	214.55	213.55	1.00
TRENCH #6	215.90	213.45	212.45	1.00
TRENCH #7	215.74	213.29	212.29	1.00
TRENCH #8	215.70	213.25	211.85	1.40
TRENCH #9	215.70	213.25	211.85	1.40



GENERAL NOTES:

* MAXIMUM SURFACE LOADING RATE (SLR) INTO LOWER CHAMBER THROUGH DROP PIPE IS 1135 L/m/s/m² (27.9 gpm/ft²) FOR STORMCEPTOR EF4 AND 535 L/m/s/m² (13.1 gpm/ft²) FOR STORMCEPTOR EFO4 (OIL CAPTURE CONFIGURATION). WEIR HEIGHT IS 150 mm (6 INCH) FOR EFO4.
1. ALL DIMENSIONS INDICATED ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SPECIFIED.
2. STORMCEPTOR STRUCTURE INLET AND OUTLET PIPE SIZE AND ORIENTATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.
3. UNLESS OTHERWISE NOTED, BYPASS INFRASTRUCTURE, SUCH AS ALL UPSTREAM DIVERSION STRUCTURES, CONNECTING STRUCTURES, OR PIPE CONDUITS CONNECTING TO COMPLETE THE STORMCEPTOR SYSTEM SHALL BE PROVIDED AND ADDRESSED SEPARATELY.
4. DRAWING FOR INFORMATION PURPOSES ONLY. REFER TO ENGINEERS SITE/UTILITY PLAN FOR STRUCTURE ORIENTATION.
5. NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

INSTALLATION NOTES

A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED)
C. CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT)
D. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT THE DEVICE FROM CONSTRUCTION-RELATED EROSION RUNOFF.
E. DEVICE ACTIVATION, BY CONTRACTOR, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE STORMCEPTOR UNIT IS CLEAN AND FREE OF DEBRIS.

STANDARD DETAIL
NOT FOR CONSTRUCTION

FOR SITE SPECIFIC DRAWINGS PLEASE CONTACT YOUR LOCAL STORMCEPTOR REPRESENTATIVE. SITE SPECIFIC DRAWINGS ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME. SOME FIELD REVISIONS TO THE SYSTEM LOCATION OR CONNECTION PIPING MAY BE NECESSARY BASED ON AVAILABLE SPACE OR SITE CONFIGURATION REVISIONS. ELEVATIONS SHOULD BE MAINTAINED EXCEPT WHERE NOTED ON BYPASS STRUCTURE (IF REQUIRED).

SITE SPECIFIC DATA REQUIREMENTS

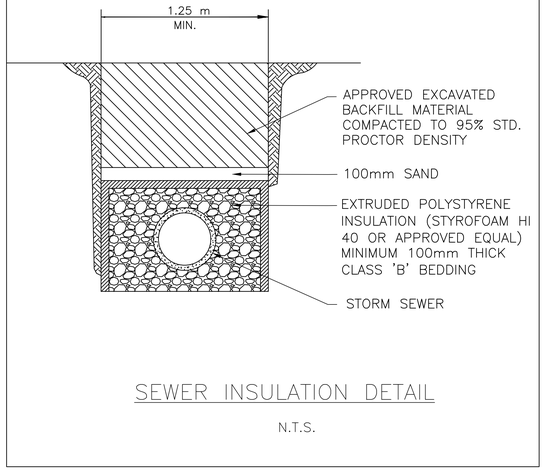
STORMCEPTOR MODEL	EFO4					
STRUCTURE ID						*
HYDROCARBON STORAGE REQ'D (L)						*
WATER QUALITY FLOW RATE (L/s)						*
PEAK FLOW RATE (L/s)						*
RETURN PERIOD OF PEAK FLOW (yrs)						*
DRAINAGE AREA (HA)						*
DRAINAGE AREA IMPERVIOUSNESS (%)						*
PIPE DATA:	I.E.	MATL	DIA	SLOPE %	HGL	
INLET #1	*	*	*	*	*	*
INLET #2	*	*	*	*	*	*
OUTLET	*	*	*	*	*	*
* PER ENGINEER OF RECORD						

Stormceptor EF — SCALE = NTS

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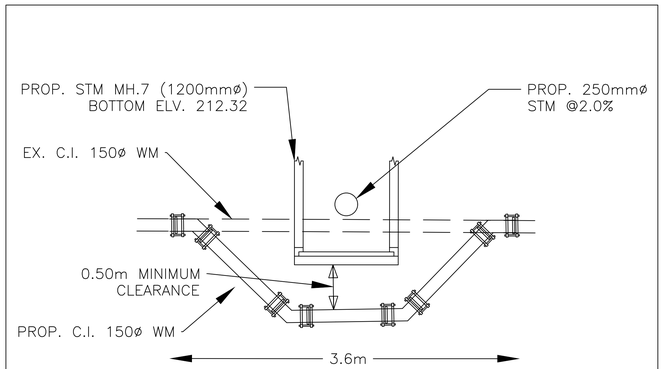
DATE: 10/13/2017 | DESIGNED: JSK | DRAWN: JSK | CHECKED: BSF | APPROVED: SP | PRODUCT No.: EFO4 | SEQUENCE No.: 1 | SHEET: 1 of 1

NO.	DATE	REVISION DESCRIPTION	BY
1	2018	UPDATES	JSK
2	2018	RELEASE	JSK
3	2018		
4	2018		



SEWER INSULATION DETAIL

N.T.S.



PROP 4–45° VERTICAL BENDS WITH MECHANICAL THRUST RESTRAINTS

NOTE: THE EXISTING 150mm DIA WATERMAIN ON BONACCORD STREET WILL BE RECONSTRUCTED TO RUN UNDERNEATH THE PROPOSED STORM CONNECTION WITH A MINIMUM 0.5m CLEARANCE. ADEQUATE STRUCTURAL SUPPORT FOR THE SEWERS TO BE PROVIDED TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING.

WATERMAIN CROSSING DETAIL

SCALE N.T.S.



KEY PLAN
N.T.S

LEGEND:

METRIC:
DISTANCES AND COORDINATES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

BEARING:
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DISTANCES SHOWN HEREON ARE GROUND DISTANCES AND CAN BE CONVERTED TO GRID DISTANCES BY MULTIPLYING BY A COMBINED SCALE FACTOR OF 1.00012625.

NO.	DATE	REVISIONS	BY
3.	OCT. 04/24	ISSUED FOR TENDER – ADDENDUM #1	D.G.
2.	SEP. 27/24	ISSUED FOR TENDER	D.G.
1.	SEP. 24/24	AS PER REVISED GRADING PLAN	D.G.

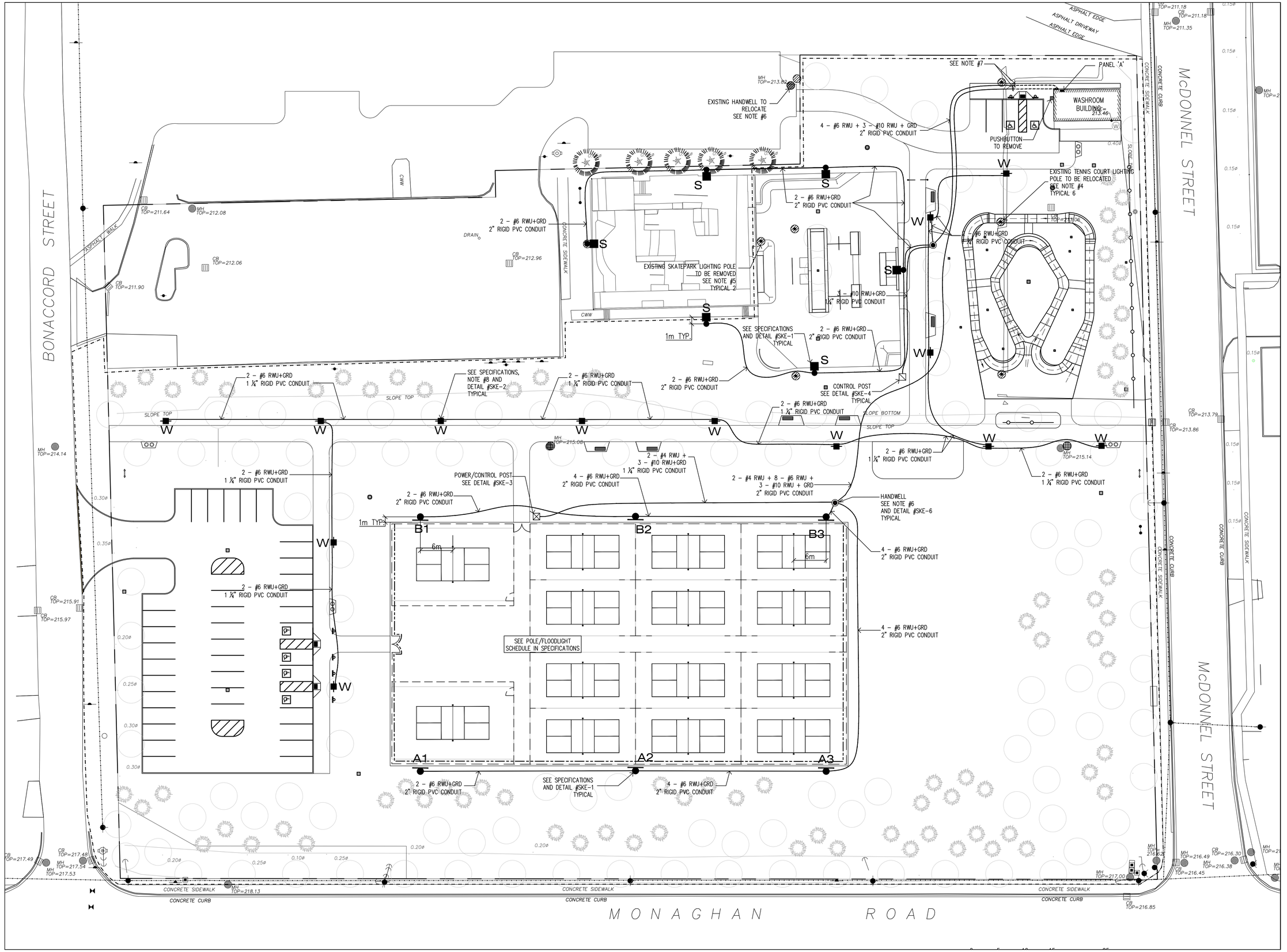
LICENCED PROFESSIONAL ENGINEER — D. A. GUGOVAZ — OCT.04/24 — PROVINCE OF ONTARIO

VALDOR ENGINEERING INC.
Consulting Engineers - Project Managers
321 CHRISLEA ROAD UNIT 6, 2ND FLOOR, WOODBRIDGE, ONTARIO, L4L 8A2
TEL: 905-850-8815 FAX: 905-850-8816
E-MAIL: info@valdor-engineering.com
www.valdor-engineering.com

BONNERWORTH PARK IMPROVEMENT
560 McDONNEL ST
CITY OF PETERBOROUGH

NOTES & DETAILS PLAN

SCALE	DATE OF DWG.	PROJECT NO.
AS SHOWN	SEPT. 24, 2024	24124
DRAWN BY: A.M.	DRAWING NO.	
CHK'D BY: D.G	DET–2	



REGISTERED PROFESSIONAL ENGINEER
B.A. KRASNICHUK
PROVINCE OF ONTARIO

Electrical Consultant

MJS CONSULTANTS INC.
420 Main Street East, Suite 473
Milton, Ontario
L9T 5G3
TEL: 416-402-1525
mjscons@total.net

no.	revision	date	by
1	ISSUED FOR CONSTRUCTION	10/29/2024	MJS

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NORTH

project number
2024-021

landscape planning
LANDSCAPE ARCHITECTS
Suite 207, 95 Mural Street, Richmond Hill, Ontario L4B 3G2,
Tel. 905.669.6838, www.landscapeplan.ca

project title
BONNERWORTH PARK REDEVELOPMENT

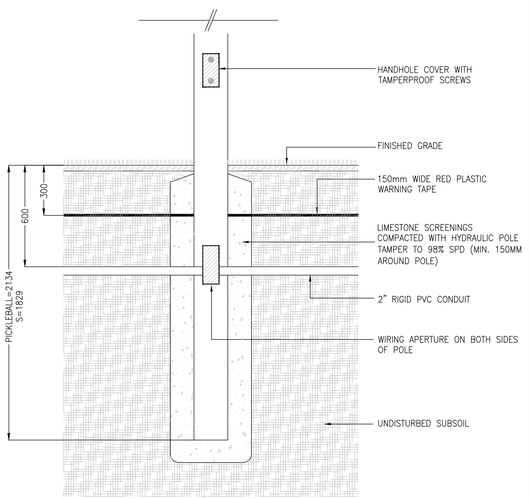
560 MCDONNEL STREET,
PETERBOROUGH, ONTARIO

client
CITY OF PETERBOROUGH

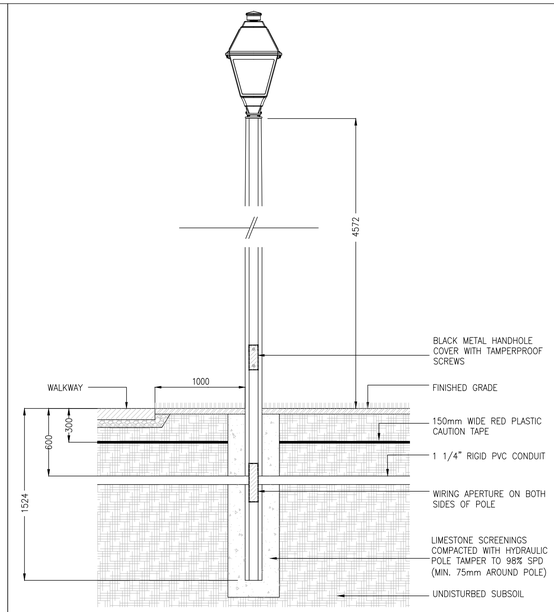
tender number
XXXXX

drawing title
ELECTRICAL PLAN

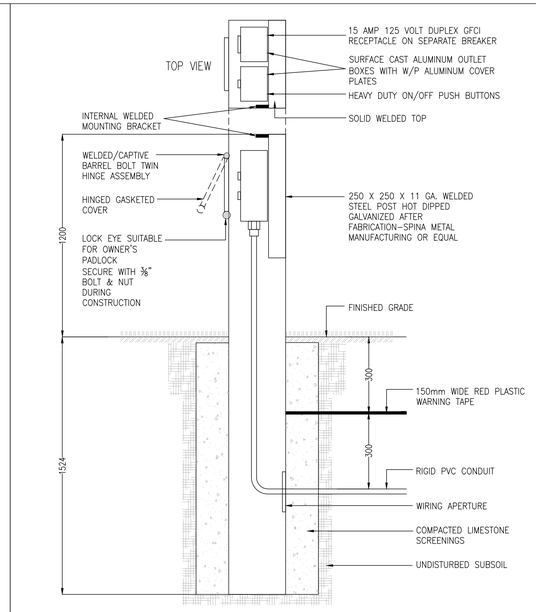
drawn by	reviewed by	drawing number:
MJS-ACAD	MJS-RN	E-1
date	scale	
SEPT. 2024	1: 300	



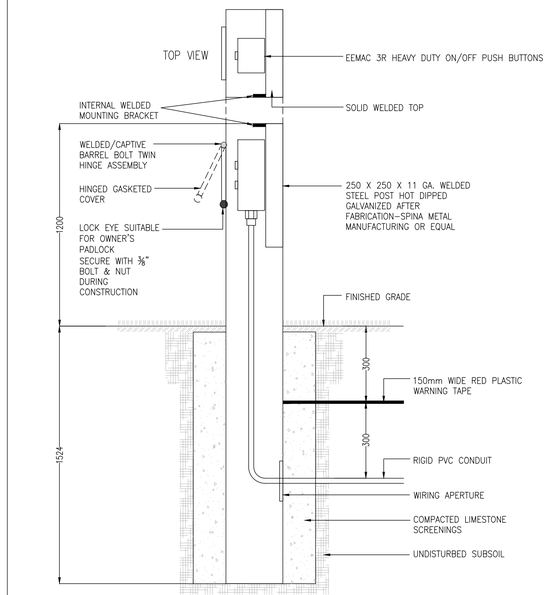
MJS CONSULTANTS INC. 420 MAIN STREET EAST, SUITE 473 MILTON, ONTARIO L9T 5G3	BONNERWORTH PARK	SKE-1
DATE JULY, 2024	POLE BASE DETAIL	
SCALE NOT TO SCALE		



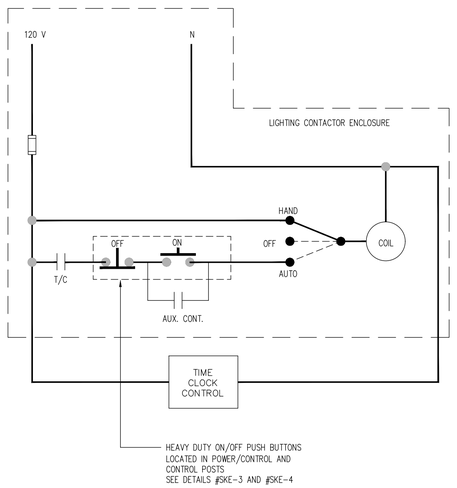
MJS CONSULTANTS INC. 420 MAIN STREET EAST, SUITE 473 MILTON, ONTARIO L9T 5G3	BONNERWORTH PARK	SKE-2
DATE JULY, 2024	TYPE 'W' LIGHTING ASSEMBLY	
SCALE NOT TO SCALE		



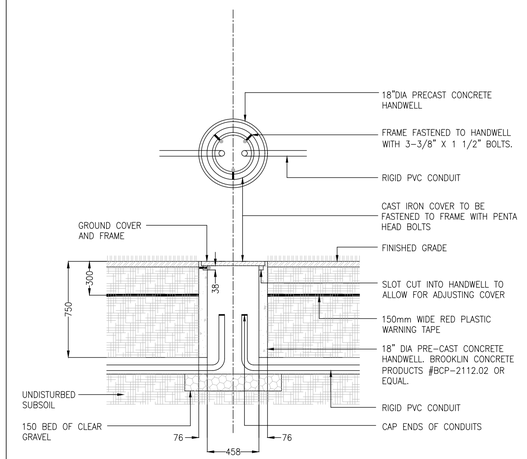
MJS CONSULTANTS INC. 420 MAIN STREET EAST, SUITE 473 MILTON, ONTARIO L9T 5G3	BONNERWORTH PARK	SKE-3
DATE JULY, 2024	POWER/CONTROL POST	
SCALE NOT TO SCALE		



MJS CONSULTANTS INC. 420 MAIN STREET EAST, SUITE 473 MILTON, ONTARIO L9T 5G3	BONNERWORTH PARK	SKE-4
DATE JULY, 2024	CONTROL POST	
SCALE NOT TO SCALE		



MJS CONSULTANTS INC. 420 MAIN STREET EAST, SUITE 473 MILTON, ONTARIO L9T 5G3	BONNERWORTH PARK	SKE-5
DATE JULY, 2024	LIGHTING CONTROL SCHEMATIC	
SCALE NOT TO SCALE		



MJS CONSULTANTS INC. 420 MAIN STREET EAST, SUITE 473 MILTON, ONTARIO L9T 5G3	BONNERWORTH PARK	SKE-6
DATE JULY, 2024	PRE–CAST CONCRETE HANDWELL	
SCALE NOT TO SCALE		

ELECTRICAL NOTES

1. Electrical contractors quoting on this project must visit the Bonnerworth Park site located at 560 McDonnel Street prior to the submission of their quotation to familiarize themselves with the existing conditions. No allowance will be made later for any expense incurred through failure to make this examination.

2. Arrange and pay for locates for all buried services before starting any work in accordance with TSSA requirements. Hand dig within two meters of all services. Protect the existing 200 amp 120/240 volt single–phase three–wire underground park service located in the Washroom building located at the southeast corner of the site and supplied from the wood transformer pole situated within the roadway easement on the north side of McDonnel Street. Any damage to the site including the existing or proposed plant materials and services will be replaced or repaired to the satisfaction of the contract inspector. All costs for this work will be the responsibility of the electrical contractor.

3. The conduit routing indicated on the drawing is to be considered schematic only. Do not route any conduits under the bases of any structures, under bleacher footings, future equipment pads or fence posts. Generally, where possible, route all conduits 2000mm offset of all existing and proposed services and all play areas. Keep all of the trenches as far away as possible from the drip lines of all existing trees to avoid damaging their root systems. All costs for this work will be the responsibility of the electrical contractor.

4. Six (6) existing tennis court direct buried, precast concrete lighting poles are to be removed and reinstalled where detailed on the drawings (the Type P lighting assemblies) to illuminate the expanded skatepark. The electrical contractor will conduct a detailed inspection of the existing poles to be relocated, to establish and verify the condition of the equipment. Equipment loss or damage occurring as a result of the work of this contract will be the responsibility of the electrical contractor. The poles are 39.5 foot long Class 'C' spun concrete and have been direct buried in compacted limestone screenings. Provide a rigid PVC junction box at the top of each pole, 2–#10 RWU+GRD cables inside of each pole supported with strain relief grips and terminate the new floodlight cabtire cables into the junction boxes with PVC strain relief connectors. Immediately after relocating the concrete poles, fill the existing pole base holes with compacted limestone screenings to the existing grades. Compact the material to 98% SPD with a hydraulic pole tamper. Do not leave open excavations unattended.

5. The electrical contractor will isolate, disconnect, remove and dispose of offsite twenty–one (21) existing metal halide floodlights, two (2) 35 foot direct buried concrete poles, eight (8) crossarms and bullhorns, all internal pole wiring and the redundant branch circuit wiring from the load side of the existing circuit breakers in Panel 'A' located inside of the Washroom Building Main Electrical Room. All removal and disposal work will be included in the total tendered quotation. The ballast capacitors and the lamps must be disposed of offsite by a recycling contractor licensed by Environment Canada. The electrical contractor will be required to provide copies of the receipts with the supply of the final documentation to confirm that the materials have been properly handled and disposed of. Immediately after removing the concrete poles, fill the existing pole base holes with compacted limestone screenings to the existing grades. Compact the material to 98% SPD with a hydraulic pole tamper. Do not leave open excavations unattended.

6. An existing precast concrete handwell is to be removed and relocated where detailed on the drawing (see detail #SKE–6). The new precast concrete handwells will be Brooklin Concrete Products #BCP–2112.02 or equal with an 18"diameter cast iron cover. Cable splicing within the pre–cast concrete handwells will be with T&B compression butt splicing sleeves insulated with T&B epoxy–filled heat shrink tubing. No other method of cable splicing will be acceptable.

7. On the north side of the Washroom Building, electronically locate the two (2) existing 2"rigid PVC conduits supplying the existing lighting poles and excavate to expose. Extend the conduits with the new branch circuit wiring as detailed on the drawings. The existing conduits terminate inside the bottom of a lighting contactor enclosure located approximately 1500mm above the floor on the inside wall of the Main Electrical Room adjacent to Panel 'A'. Remove the redundant contactors and branch circuit wiring, the time switch and the pushbutton located on the exterior wall of the building. Seal the hole in the wall from both sides with expandable grout and a waterproof/vapourproof sealer. The new lighting contactor enclosures as detailed in the specifications are to be located below Panel 'A'. The existing branch circuit wiring for the building exterior lighting is located within the existing enclosure and is to be extended to the load side of the new Walkway/Building lighting contactor. Extend all power and control wiring in EMT with steel set–screw fittings between the new contactor enclosures, the existing enclosure and Panel 'A'. Supply and install a new curfew time switch as detailed in the specifications and see detail #SKE–5 for the control wiring schematic. Provide a Square D #QOB115 15 amp single–pole breaker in Panel 'A' to supply the receptacle in the Power/Control Post and a #QOB215 15 amp two–pole circuit breaker to supply the walkway lighting. See the panel schedule in the specifications and update the schedule accordingly. Supply and install an Intermatic #K4021C photocell to control the coil of the Walkway/Building lighting contactor. Mount the photocell in a cast iron FS outlet box with a cast metal cover plate on the east face of the Main Electrical Room 50mm below the roof soffit. The lighting will be controlled with the photocell "ON"and the photocell "OFF"with the selector switch in the automatic position.

8. The Type 'W' luminaires are to be connected to the 240 volt LED driver within the luminaire. Each pole and post top luminaire is to be positioned level and squarely at 90 degrees to the lines of the walkway (the Type III optical pattern of the LED array within the luminaire is to be parallel with the walkway) unless otherwise indicated on the drawing. The electrical contractor will verify the position of the pole and luminaire to insure that the Type III optical pattern is distributing the light onto the hard surfaces as intended. See #SKE–2 for the installation details.

9. All sub–grade conduits will be rigid PVC heavywall conduit with solvent weld fittings, buried with a minimum cover of 600mm and sized as indicated on the drawing. All conduits will have a stranded, TW green bonding wire (sized in accordance with table 16 of the OESC) installed with the conductors. Each conduit will have a 150mm wide plastic "Caution"tape buried 300 mm above the conduit, for the full length of the conduit. Polypipe, ENT and Type II PVC duct will not be acceptable. All branch wire will be RWU stranded copper, 600 volt, 90 degree C rated and sized as indicated on the drawing. Use red, black and white insulated wire to properly identify the phases and the neutral. The use of phasing tape will not be acceptable.

10. After all of the locates have been completed, stake out the proposed lighting pole locations to confirm that there are no conflicts with existing or proposed services and plant materials. If conflicts occur, notify the consultant, prior to excavating for the pole base holes or the conduit installation.

11. The geotechnical report for the park has been included with the tender documents supplied to the general contractors. The electrical contractor must obtain a copy of the soils report prior to submitting their tender to make themselves aware of the existing soil conditions. Include all costs for the specialized equipment required to auger/drill the pole base holes into the bedrock noted within the report. No allowances will be made for failure to review the report.

12. The electrical contractor will complete a night time verification of the pickleball, skatepark and walkway lighting systems to confirm their correct operation and the operation of their control sequences, prior to the request for final site verification by the consultant.

13. All work must be in accordance with the Ontario Electrical Safety Code, 28TH Edition (2021). The electrical contractor will be required to submit a copy of the Electrical Safety Authority Certificate of Acceptance, issued to the ECRA licensed electrical contractor, at the completion of the project. Final acceptance and certification of this project by the electrical consultant will not be provided prior to the receipt of the ESA Certificate of Acceptance. Provide the "As–built" drawings, warranty letter and all other required final documentation upon the completion of this project.

REGISTERED PROFESSIONAL ENGINEER
B.A. KRASNICHUK
PROVINCE OF ONTARIO

Electrical Consultant

MJS CONSULTANTS INC.
420 Main Street East, Suite 473
Milton, Ontario
L9T 5G3
TEL: 416-402-1525
mjscons@total.net

no.	revision	date	by
1	ISSUED FOR CONSTRUCTION	10/29/2024	MJS

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project number
2024-021

landscape planning
LANDSCAPE ARCHITECTS
Suite 207, 95 Mural Street, Richmond Hill, Ontario L4B 3G2,
Tel. 905.669.6838, www.landscapeplan.ca

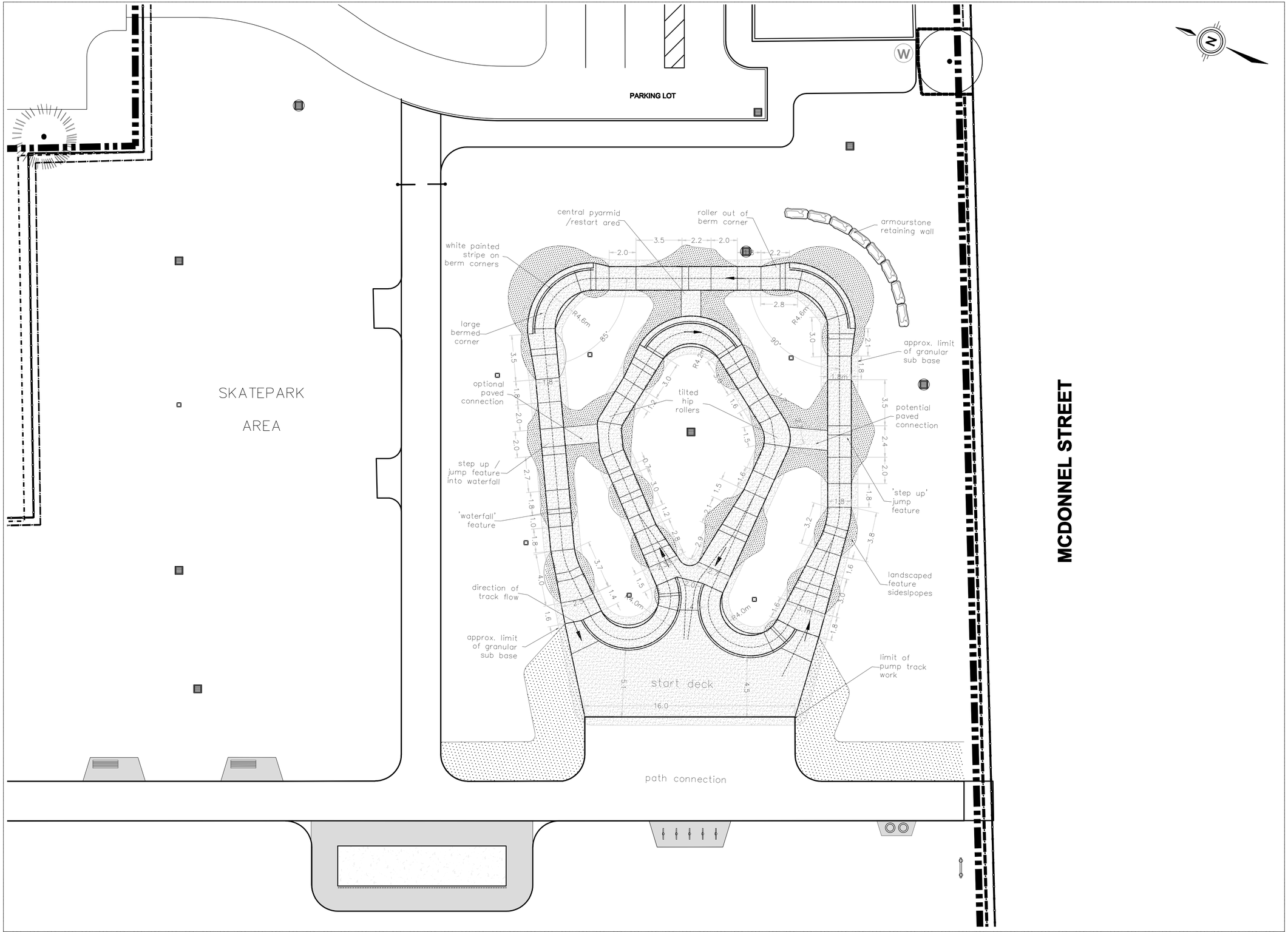
project title
BONNERWORTH PARK REDEVELOPMENT
560 MCDONNEL STREET,
PETERBOROUGH, ONTARIO

client
CITY OF PETERBOROUGH

tender number
XXXXX

drawing title
ELECTRICAL DETAILS & NOTES

drawn by	reviewed by	drawing number:
MJS-ACAD	MJS-RN	E-2
date SEPT. 2024	scale AS SHOWN	



peterborough
outside the ordinary

TRANSITIONS BIKE PARKS INC.

landscape planning
LANDSCAPE ARCHITECTS

LEGEND

- landscaped feature sideslopes
- approx. extent of gran. base
- approx CL / ride line
- painted striping on berms
- track direction of flow
- drainage catch basin
- track area drain

GENERAL NOTES – PUMP TRACK

1. TRACK PLAN AND FEATURE PROFILES ARE APPROXIMATE AND FOR REFERENCE ONLY.
2. DUE TO THE SPECIALIZED NATURE OF BIKE TRACK DEVELOPMENT, AND VARYING SITE CONDITIONS, SOME MINOR ADJUSTMENTS OR MODIFICATIONS FROM THE ORIGINAL DESIGN PLANS MAY BE REQUIRED IN ORDER TO IMPROVE RIDING FUNCTIONALITY, TRACK FLOW AND CONSTRUCTION.
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No	DATE	BY	DESCRIPTION
D	24.10.28	CD	ISSUED FOR CONSTRUCTION
C	24.09.27	CD	ISSUED FOR 100% PROGRESS REVIEW
B	24.08.02	CD	ISSUED FOR 60% PROGRESS REVIEW
A	24.05.30	CD	ISSUED FOR 25% PROGRESS REVIEW

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PROJECT:
BONNERWORTH PARK PUMP TRACK

LOCATION:
CITY OF PETERBOROUGH

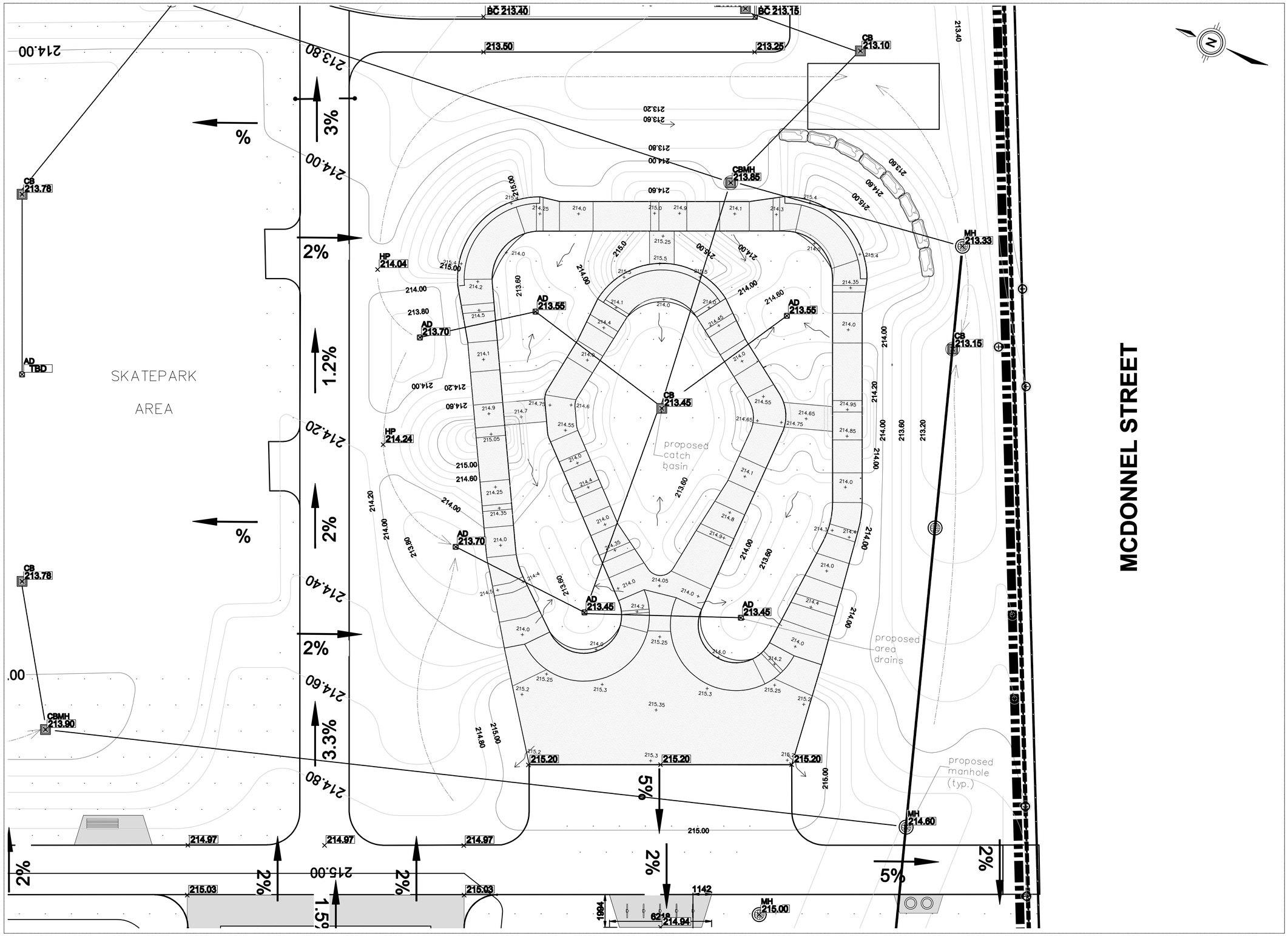
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CHECKED:	CD		
APPROVED:	LPL		

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PUMP TRACK SITE PLAN

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PROJECT:
PETERBOROUGH PUMP TRACK

DRAWING NUMBER: PT-01 | REV A



peterborough
outside the ordinary

TRANSITIONS BIKE PARKS INC.

landscape planning
LANDSCAPE ARCHITECTS

LEGEND

- asphalt riding surface
- +214.9 proposed elevations
- drainage pattern
- proposed catchbasin
- proposed area drain

GENERAL NOTES – PUMP TRACK

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PROJECT:
BONNERWORTH PARK PUMP TRACK

LOCATION:
CITY OF PETERBOROUGH

DRAWN:	CD	START DATE:	
CHECKED:	CD		DATE
APPROVED:	LPL		

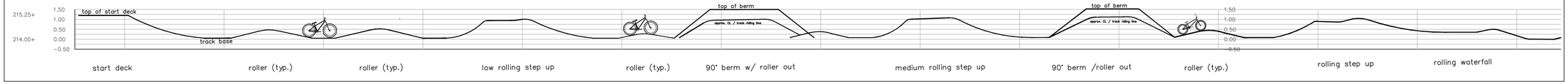
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GRADING + DRAINAGE PLAN

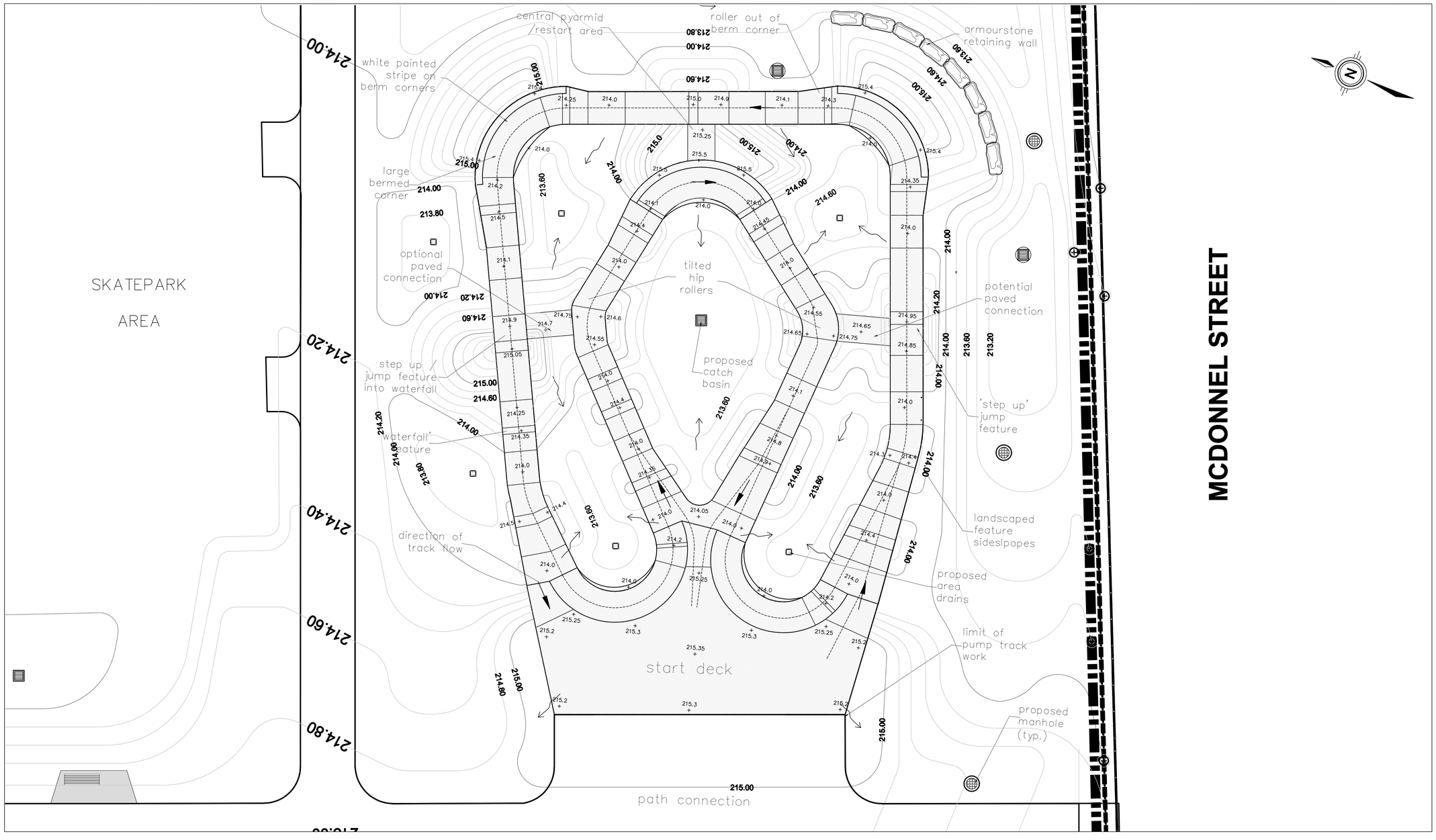
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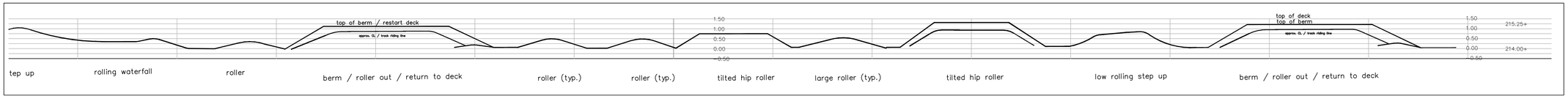
PROJECT:
PETERBOROUGH PUMP TRACK

DRAWING NUMBER: PT-02 | REV: A

MAIN track - section profile 1:1







peterborough
outside the ordinary

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landscape planning
LANDSCAPE ARCHITECTS

LEGEND

- HL3F asphalt riding surface
- +334.9 proposed final elevations
- drainage

GENERAL NOTES – PUMP TRACK

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PROJECT:
BONNERWORTH PARK PUMP TRACK

LOCATION:
CITY OF PETERBOROUGH

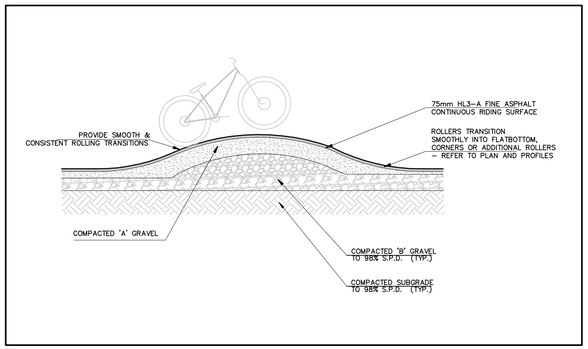
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APPROVED:	LPL	

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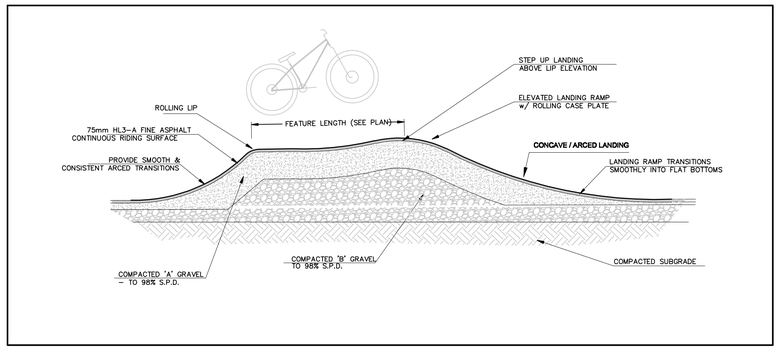
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PROJECT:
PETERBOROUGH PUMP TRACK

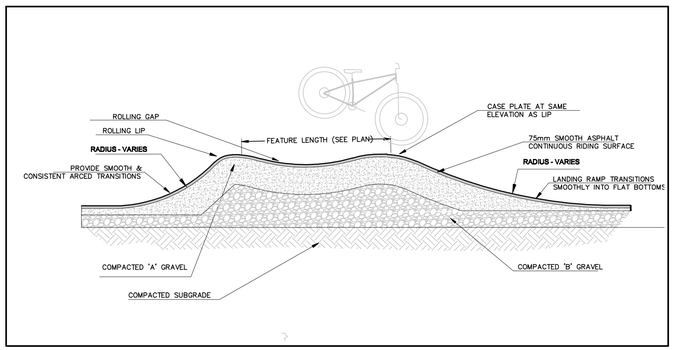
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PT-03	A



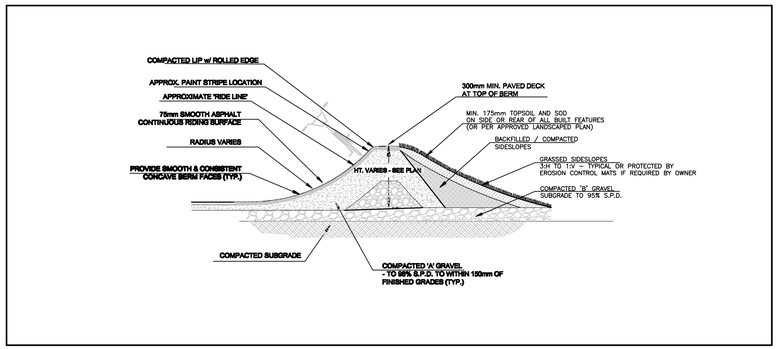
D1 **ROLLER**



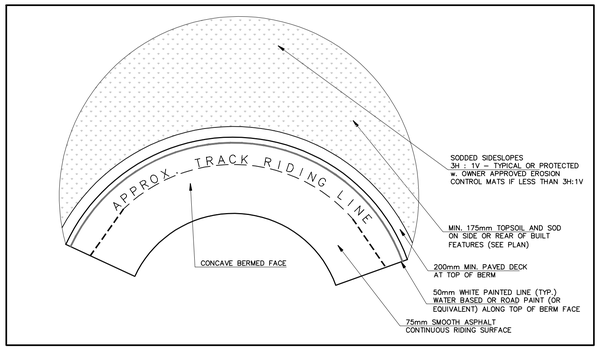
D2 **ROLLING STEP UP**



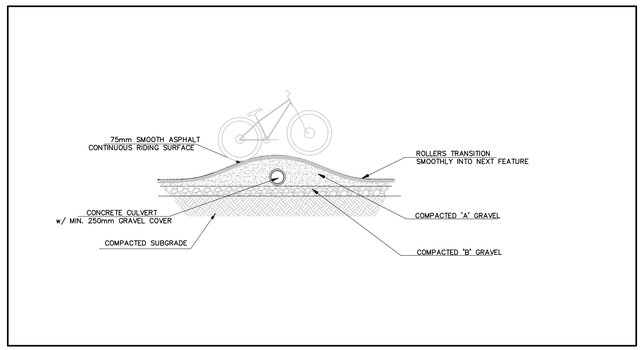
D3 **ROLLER DOUBLE**



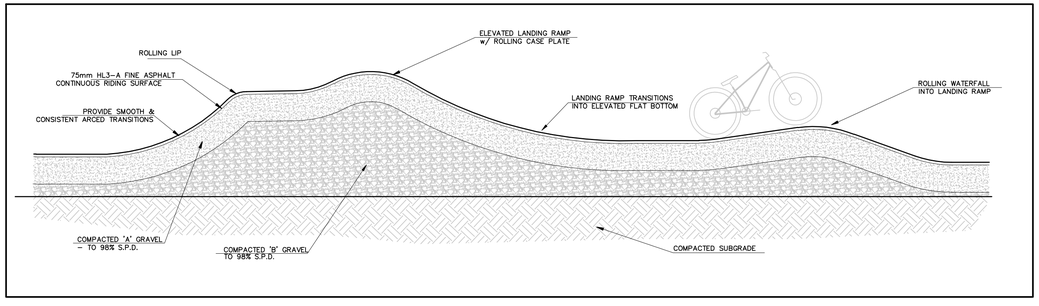
D4 **BERMED CORNER - SECTION VIEW**



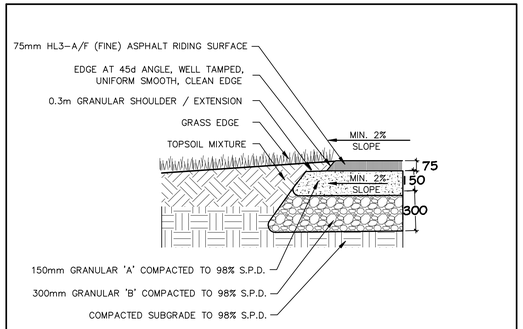
D5 **BERMED CORNER - PLAN VIEW**



D6 **PIPE ROLLER DETAIL - IF REQUIRED**



D7 **HIPPED STEP UP JUMP w/ WATERFALL LANDING**



NOTE :
1. ALL DIMENSIONS IN MILLIMETRES
2. GRANULAR BASE DIMENSIONS SHOWN ARE MIN. AFTER COMPACTION
3. SLOPE SUBGRADE PARALLEL TO FINISHED GRADE (MIN. 2% SLOPE)
4. WIDTH OF PATH AS SHOWN ON SITE AND LAYOUT PLANS

EXCAVATION :
EXCAVATE TO 250MM MIN. DEPTH OR AS REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ANY UNSUITABLE OR ORGANIC SUBGRADE MATERIAL. REMOVE ALL EXCAVATED MATERIAL AND DISPOSE OF OFF SITE OR STOCKPILE.

D9 **ASPHALT PAVING DETAIL**

peterborough
outside the ordinary

TRANSITIONS BIKE PARKS INC.

landscape planning
LANDSCAPE ARCHITECTS

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PROJECT:
BONNERWORTH PARK PUMP TRACK

LOCATION:
CITY OF PETERBOROUGH

DRAWN:	CD	START DATE:
CHECKED:	CD	
APPROVED:	LPL	

DRAWING TITLE:
TRACK DETAILS

SCALE:	PAGE SIZE:
NTS	24"x36"

PROJECT:
PETERBOROUGH

DRAWING NUMBER:	REV
PT-04	A



PROJECT INFORMATION

PROJECT NAME:

BONNERWORTH PARK SKATEPARK

SITE ADDRESS:

560 MCDONNEL ST, PETERBOROUGH, ON K9H 2X8

CUSTOMER:

CITY OF PETERBOROUGH

CUSTOMER ADDRESS:

500 GEORGE ST. N., PETERBOROUGH, ON K9H 3R9

PLAN IDENTIFIER

DATE OF LAST REVISION

OCTOBER 28, 2024

PERCENTAGE COMPLETED **100%**

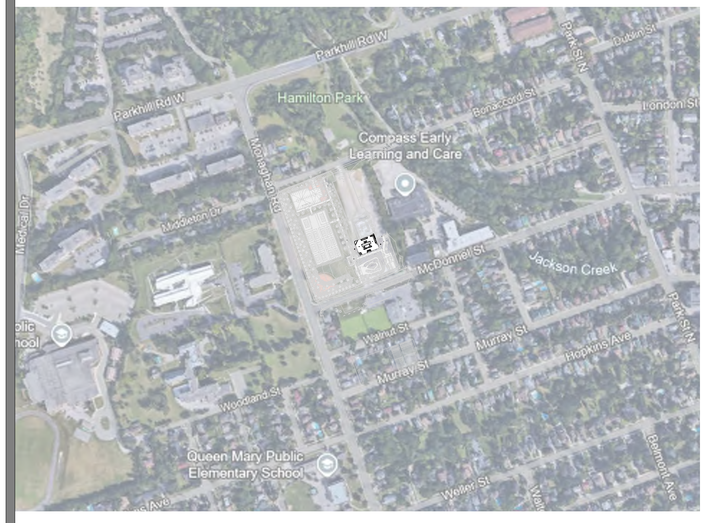
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SHEET INDEX

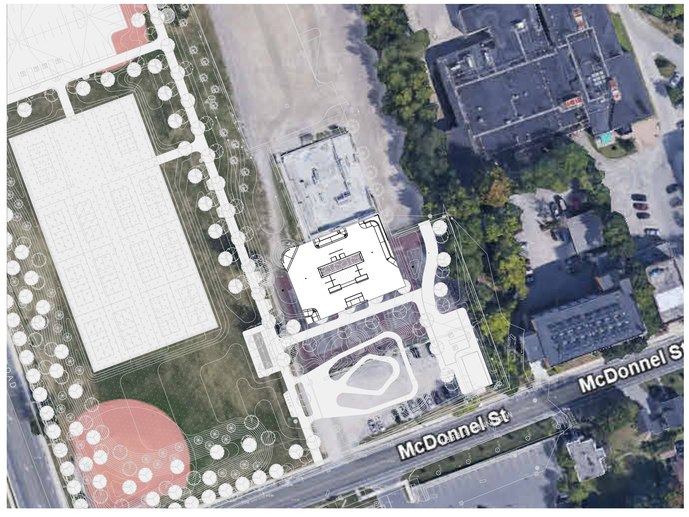
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SP-01	COVER
SP-02	RENDERINGS
SP-03	PROJECT NOTES AND FEATURES
SP-04	EXISTING CONDITIONS / CONSTRUCTION BOUNDARIES
SP-05	STAKE-OUT LOCATIONS
SP-06	ROUGH GRADING
SP-07	DRAINAGE
SP-08	FINISHED GRADING
SP-09	TURN-DOWN AND RETAINING WALLS
SP-10	ELEVATIONS
SP-11	DIMENSIONS LINEAR AND ARC
SP-12	DIMENSIONS RADIAL AND ANGULAR
SP-13	MATERIALS AND JOINTING
SP-14	COLOR SCHEME
SP-15	METALS AND EDGING
SP-16	METAL SHOP DRAWINGS I
SP-17	SECTIONS I
SP-18	SECTIONS II
SP-19	DETAILS I
SP-20	DETAILS II

Grand total: 20



1 VICINITY MAP

N.T.S



2 PROJECT LOCATION MAP

N.T.S



3 PROJECT AREA

1 : 400

0 4 8 12 16 20 40 m

Scale 1:400

N

CANADIAN RAMP COMPANY

WWW.CANADIANRAMPCOMPANY.CA
43 CURTIS STREET
INNERKIP, ONTARIO N0J 1M0
PHONE: 905-777-1758 - FAX: 289-644-2975

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BONNERWORTH PARK SKATEPARK

CUSTOMER CONTACT INFORMATION: 500 GEORGE ST. N., PETERBOROUGH, ON K9H 3R9

SITE ADDRESS: 560 MCDONNEL ST, PETERBOROUGH, ON K9H 2X8

CUSTOMER: CITY OF PETERBOROUGH

SITE GEOLOCATION: 44°16'18.4"N 78°20'16.9"W

REV.#	DESCRIPTION	DATE
1		
2		
3		
4		
5		
6		

SEAL:

DESIGNED BY: J.D FIELDS

DRAWN BY: M. ESPINOZA

APPROVED BY: A.HORDOS

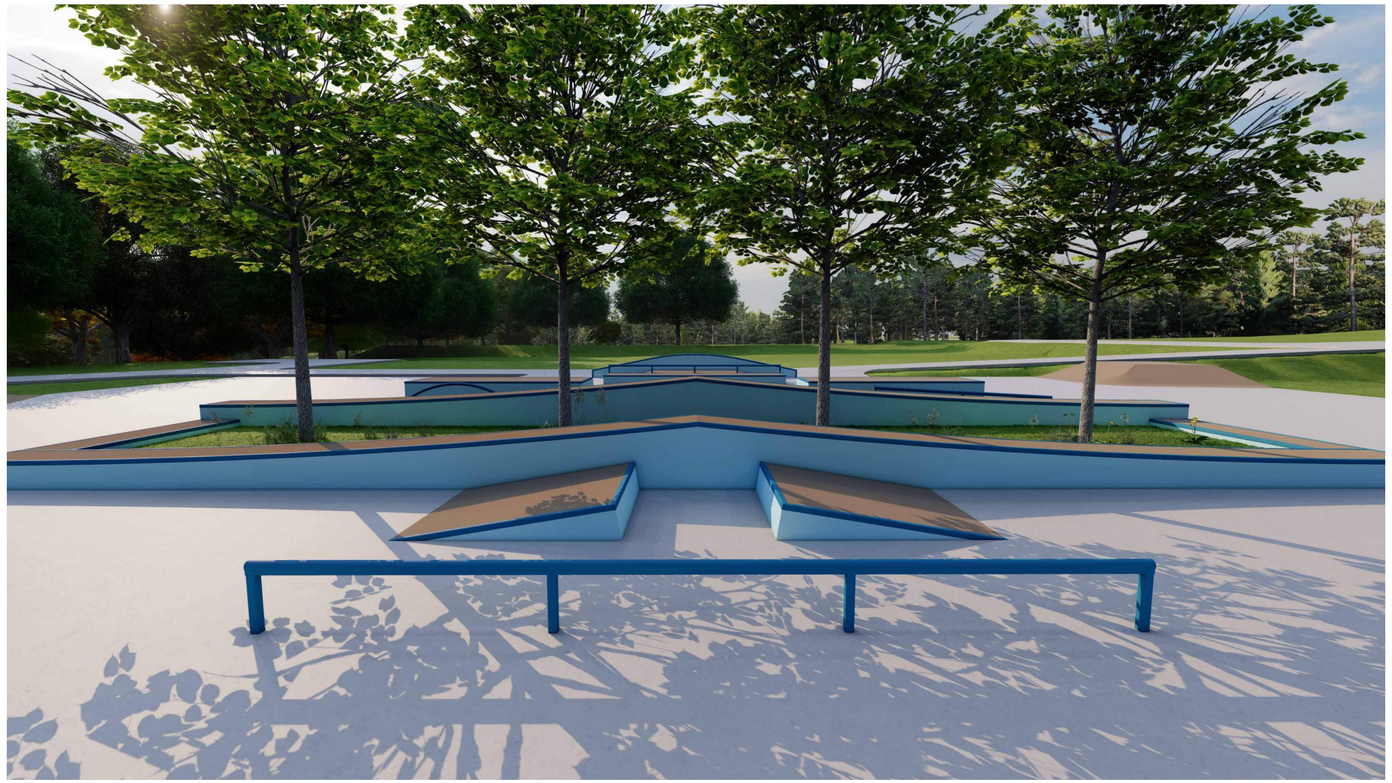
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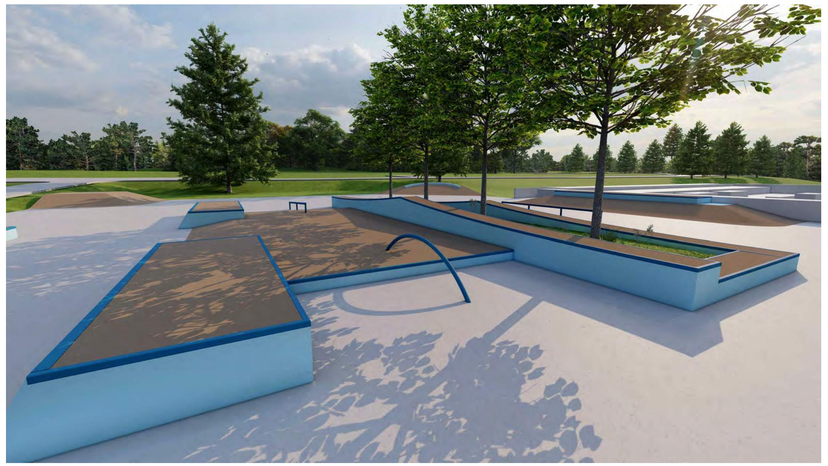
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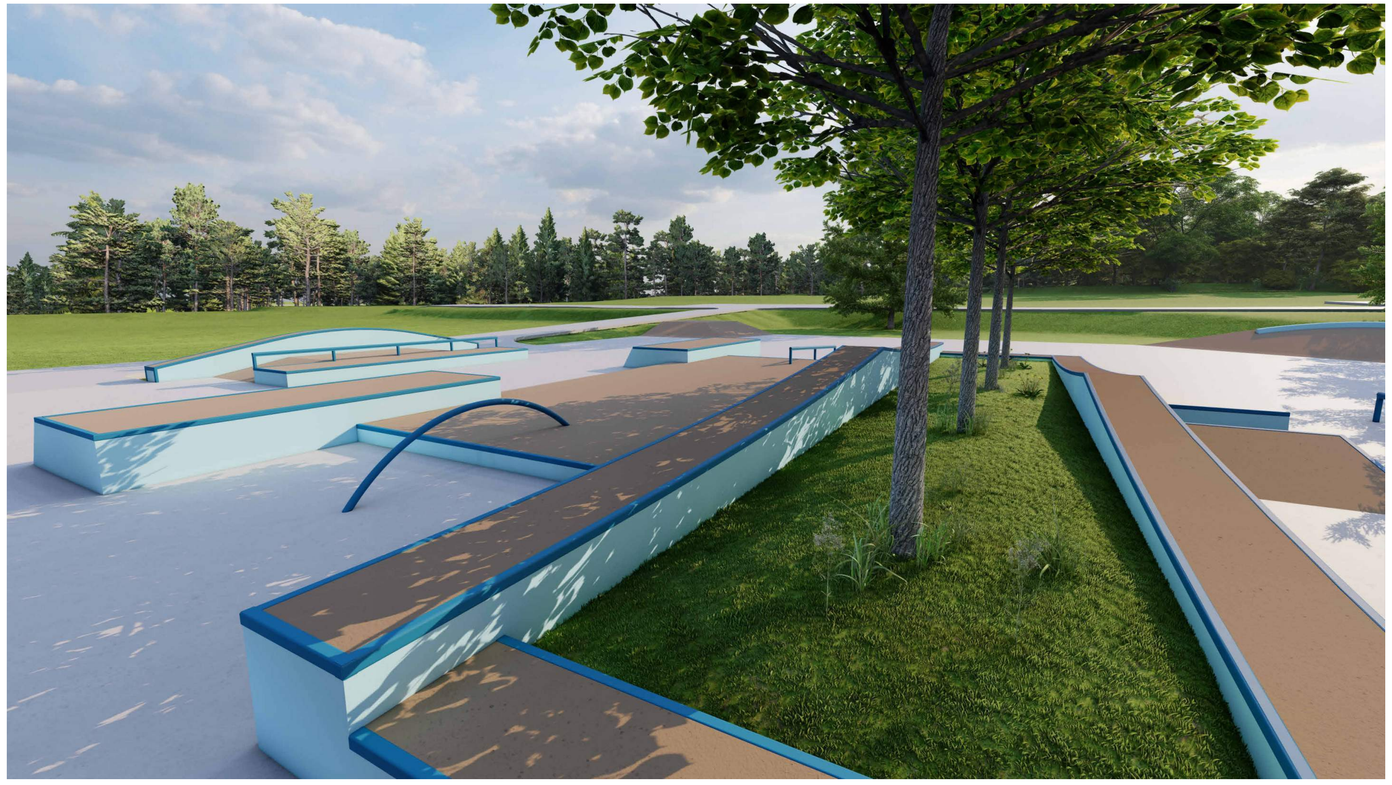
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INNERKIP, ONTARIO N0J 1M0
PHONE: 905-777-1758 - FAX: 289-644-2975

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BONNERWORTH PARK SKATEPARK

CUSTOMER CONTACT INFORMATION:
500 GEORGE ST. N., PETERBOROUGH, ON K9H 3R9

SITE ADDRESS:
560 MCDONNEL ST, PETERBOROUGH, ON K9H 2X8

CUSTOMER:
CITY OF PETERBOROUGH

SITE GEOLOCATION:
44°18'31"N 78°20'16"W

REV.#	DESCRIPTION	DATE
1		
2		
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6		

SEAL:

DESIGNED BY: J.D FIELDS

DRAWN BY: M. ESPINOZA

APPROVED BY: A.HORDOS

DATE: 10/28/2024

SHEET NAME:

RENDERINGS

PROJECT NUMBER: 08861

SHEET NUMBER: SP-02

SKATEPARK GENERAL NOTES:

1. SITE TO BE GRADED AS PER PLAN.
2. ALL WORK PERFORMED TO COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND/OR LOCAL BUILDING CODES.
3. ALL SOIL USED IN CONSTRUCTION SHALL BE VIBRATORY HAND ROLLED TO 95% MAX. STANDARD PROCTOR DENSITY PRIOR TO ANY POURING OF CONCRETE ON SITE.
4. CONTRACTOR SHALL NOTIFY ALL UTILITIES TO ALL FOR LOCATION OF ANY BURIED SERVICES IN THE AREA PRIOR TO BEGINNING OF CONSTRUCTION. ANY SERVICES SHOWN IN THE SET ARE FOR REFERENCE ONLY, AND MAY NOT SHOW ALL SERVICES CURRENTLY ON SITE. CONTRACTOR SHALL WAIT A MINIMUM OF TWO (2) BUSINESS DAYS TO ALLOW UTILITIES TO BE LOCATED.
5. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TRANSPORTATION, AND SERVICES NECESSARY TO FURNISH AND INSTALL ALL CONSTRUCTION ELEMENTS AND SHOWN IN THIS SET OF PLANS AND NOTES.

SHOTCRETE NOTES:

1. ACI STANDARD 506, LATEST EDITION "SPECIFICATION FOR MATERIALS, PROPORTIONING, AND APPLICATION OF SHOTCRETE" AND ACI 506.2, LATEST EDITION "RECOMMENDED PRACTICES FOR SHOTCRETING" SHALL BE FOLLOWED.
2. ANY REBOUND OR ACCUMULATED LOOSE AGGREGATE SHALL BE REMOVED FROM THE SURFACES TO BE COVERED PRIOR TO PLACING THE INITIAL OR ANY SUCCEEDING LAYERS OF SHOTCRETE APPLICATION.
3. JOINTS IN WALLS ARE PERMISSIBLE. AT JOINTS, SHOTCRETE SHALL BE SLOPED TO A THIN EDGE. BEFORE PLACING ADDITIONAL MATERIAL, ALL SURFACES SHALL BE THOROUGHLY CLEANED AND WETTED AND ALL REINFORCING STEEL SHALL BE BRUSHED FREE OF LATENT SHOTCRETE MATERIALS.
4. ALL SURFACES SHALL HAVE A SMOOTH TROWEL FINISH, UNLESS OTHERWISE NOTED.

CONCRETE NOTES:

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE'S "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318 - LATEST EDITION) AND "SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301 - LATEST EDITION)
2. REINFORCEMENT SHALL CONFORM TO ASTM "SPECIFICATIONS FOR DEFORMED & PLAIN BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT" - A615 GRADE 60, MINIMUM YIELD STRENGTH OF 60,000 PSI.
3. MINIMUM TO CENTER OF BAR COVERAGE FOR REINFORCEMENT IN SITE-CAST CONCRETE SHALL BE AS FOLLOWS:

   CONCRETE CAST AGAINST EARTH-----3"
   CONCRETE EXPOSED TO WEATHER OR EARTH
   #5 BAR & LARGER---3"
   #4 BAR AND SMALLER-2"

4. JOINT MATERIAL FOR COLD JOINTS AND EXPANSION JOINTS SHALL BE "BASF NP1" OR APPROVED EQUIVALENT, INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
5. CONDUITS, PIPES, AND SLEEVES EMBEDDED IN CONCRETE SHALL CONFORM TO THE 2021 IBC.
6. AGGREGATE BASE AS REQUIRED BY LOCAL PRACTICE OR GEOTECHNICAL REPORT, SHALL BE A COMMONLY AVAILABLE MATERIAL, W/ AGGREGATE SIZE RANGING FROM 3/8"-3/4" COMPACTED TO NOT LESS THAN 95% OF MAX. STANDARD PROCTOR DENSITY. THE TOP 12" [300mm] OF SUBGRADE MATERIAL SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR AS PER ASTM D-698.
7. ALL WORK SHALL BE IN ACCORDANCE WITH THE SAFETY AND PERFORMANCE GUIDELINES PERTAININGTO IN-GROUND SKATEPARK FACILITIES AS SPECIFIED IN THE STANDARD GUIDE FOR IN-GROUND CONCRETE SKATEPARK ASTM F-2480
8. SECURE ALL REINFORCING, ANCHOR BOLTS, INSERTS, ETC. RIGIDLY IN PLACE PRIOR TO POURING CONCRETE.
9. ALL REBAR SHALL BE COLD BENT.
10. REMOVE FORMS AT FOLLOWING MINIMUM TIMES AFTER POURING, UNLESS OTHERWISE IDENTIFIED: SLAB EDGES = 24 HOURS, AT WALLS LESS THAN 4'-0" [1.22m] HIGH = 36 HOURS
11. DURING THE CURING PERIOD, CONCRETE SHALL BE MAINTAINED AT A TEMPERATURE ABOVE 40°F [4°C] AND IN MOIST CONDITION. FOR INITIAL CURING, CONCRETE SHALL BE KEPT CONTINUOUSLY MOIST FOR 24 HOURS AFTER PLACEMENT IS COMPLETE. FINAL CURING SHALL CONTINUE FOR SEVEN DAYS AFTER PLACEMENT AND SHALL CONSIST OF APPLICATION OF CURING COMPOUND AS PER ASTM C309. APPLY AT A RATE SUFFICIENT TO RETAIN MOISTURE, BUT NOT LESS THAN 1 GALLON [4.55L] PER 200 SQUARE FT [18.58m^2], COVER CONCRETE WITH POLYETHYLENE PLASTIC TO MAINTAIN TEMPERATURE IF NECESSARY. LAP SEAMS IN THE PLASTIC 6" [15.24cm] AND TAPE, WEIGHT DOWN THE PLASTIC AS NEEDED.
12. WELDED WIRE MESH SHALL NOT BE USED AS A SUBSTITUTE FOR REBAR, UNLESS NOTED IN PLANS OTHERWISE.

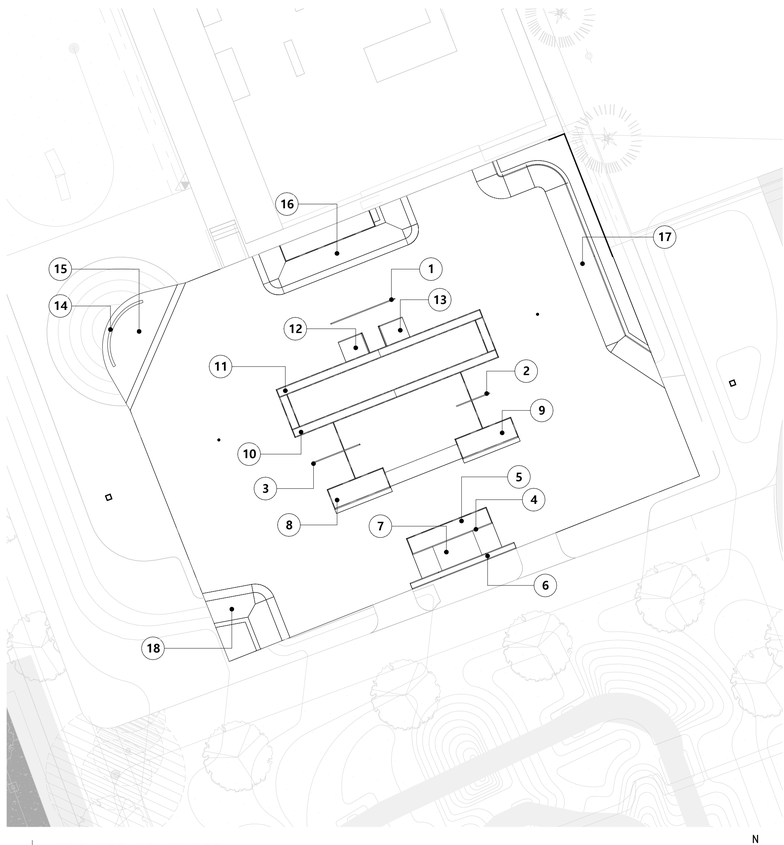
SKATEPARK NOTES:

1. ALL SKATEPARK CONCRETE SHALL BE REINFORCED WITH #3 REINFORCING BARS @ 12" O.C. FOR SLABS AND #3 @ 12" O.C. FOR ALL TRANSITIONAL AREAS USING SHOTCRETE, BOTH DIRECTIONS, SEE DETAILS FOR SLAB THICKNESS USED.
2. ALL EDGES AND CORNERS OF CONCRETE FEATURES SHALL HAVE 1/2" RADII OR 3/4" CHAMFER, AS PER OWNERS CHOICE, UNLESS NOTED OTHERWISE ON PLANS.
3. CONTRACTOR SHALL VERIFY AND COORDINATE ALL FINISH GRADES AND CURB EDGES WITH RELATED SITE IMPROVEMENTS. CONTRACTOR SHALL REPORT IMMEDIATELY TO THE OWNER'S REPRESENTATIVE ANY CONFLICTS OR DISCREPANCIES FOUND.
4. WRITTEN DIMENSIONS ARE TO TAKE PRECEDENCE OVER ANY SCALED DIMENSIONS, AND IN NO WAY SHALL THE CONTRACTOR SCALE ANY DIMENSIONS DIRECTLY FROM THIS SET FOR ACTUAL CONSTRUCTION USE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO, AS PART OF LAYOUT, WITH THE UNDERSTANDING THAT SOME DIMENSIONS MAY VARY SLIGHTLY. CONTRACTOR SHALL REPORT IMMEDIATELY TO THE OWNER'S REPRESENTATIVE ANY CONFLICTS OR DISCREPANCIES FOUND ON SITE THAT MAY IMPEDE CONSTRUCTION OF PARK.
5. ALL SKATEPARK CONCRETE SHALL HAVE A SMOOTH HARD TROWEL FINISH.
6. ALL REINFORCING BARS SHALL HAVE AN ALTERNATING 24" OVERLAP; TYP. SEE SPECIFICATIONS FOR FURTHER DETAILS.

CONSTRUCTION NOTES:

1. IN THE AREA OF THE SKATEPARK: EXISTING ORGANIC MATERIAL, UNSUITABLE SOIL, AND OTHER DELETERIOUS MATERIALS SHALL BE REMOVED. FILL MATERIAL REQUIRED SHALL BE OF A SIMILAR TYPE OF SOIL THAT IS PRESENT AT THE SITE EXHIBITING LIQUID LIMIT VALUES BELOW 45 AND PLASTIC INDEX VALUES LESS THAN 25. NO ROCK GREATER THAN 8" SHALL BE ALLOWED IN STRUCTURAL FILL MATERIAL. ALL FILL MATERIAL SHALL BE PLACED IN LOOSE LIFTS NO GREATER THAN 6" IN DEPTH AND SHALL BE COMPACTED TO A DENSITY NO LESS THAN 95% OF THE MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D-698) AT A MOISTURE CONTENT OF 3% ABOVE OR BELOW OPTIMUM.
2. ALL SOIL BELOW SLABS AND FOOTINGS SHALL BE PROPERLY COMPACTED AND SUBGRADE BROUGHT TO A REASONABLE TRUE AND LEVEL PLANE BEFORE PLACING CONCRETE. AFTER EXCAVATION FOR FOOTINGS AND FLAT SLABS, AND PRIOR TO PLACEMENT OF STEEL REINFORCEMENT OR CONCRETE, CONTRACTOR TO NOTIFY ENGINEER FOR INSPECTION OF SOIL CONDITIONS.
3. EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZE AND DIMENSIONS AS SHOWN ON PLANS. IF ADEQUATE BEARING IS NOT ENCOUNTERED AT THE MINIMUM ELEVATIONS SPECIFIED, CONTACT THE ENGINEER FOR NEW BEARING ELEVATIONS.
4. LEVEL OUT BOTTOM OF EXCAVATIONS FOR STRUCTURES. DO NOT LEAVE HARD SPOTS. THE EXCAVATION FOR FOOTINGS SHALL BE CUT TO ACCURATE SIZE AND DIMENSIONS AS SHOWN ON THE PLANS.





1 PROJECT FEATURES
1 : 200

0 2 4 6 8 10 20 m
Scale 1:200

N

PROJECT FEATURES	
N.	DESCRIPTION
1	FLAT RAIL
2	RAINBOW RAIL
3	ROUND PIPE RAIL
4	FLAT RAIL
5	GRIND BOX
6	RAINBOW HUBBA LEDGE
7	BANK TO BANK
8	GRIND BOX
9	GRIND BOX
10	PAGODA LEDGE
11	PAGODA LEDGE
12	KICKER
13	KICKER
14	ROUNDED CURB
15	BANK RAMP 14°
16	BANK RAMP 14°
17	QUARTER PIPE R1.80m
18	BANK RAMP 17.5°

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BONNERWORTH PARK SKATEPARK

CUSTOMER CONTACT INFORMATION:
500 GEORGE ST. N., PETERBOROUGH, ON K9H 3R9

SITE ADDRESS:
560 MCDONNEL ST., PETERBOROUGH, ON K9H 2X8

CUSTOMER:
CITY OF PETERBOROUGH

SITE GEOLOCATION:
44°18'31"N 78°20'16"W

REV.#	DESCRIPTION	DATE
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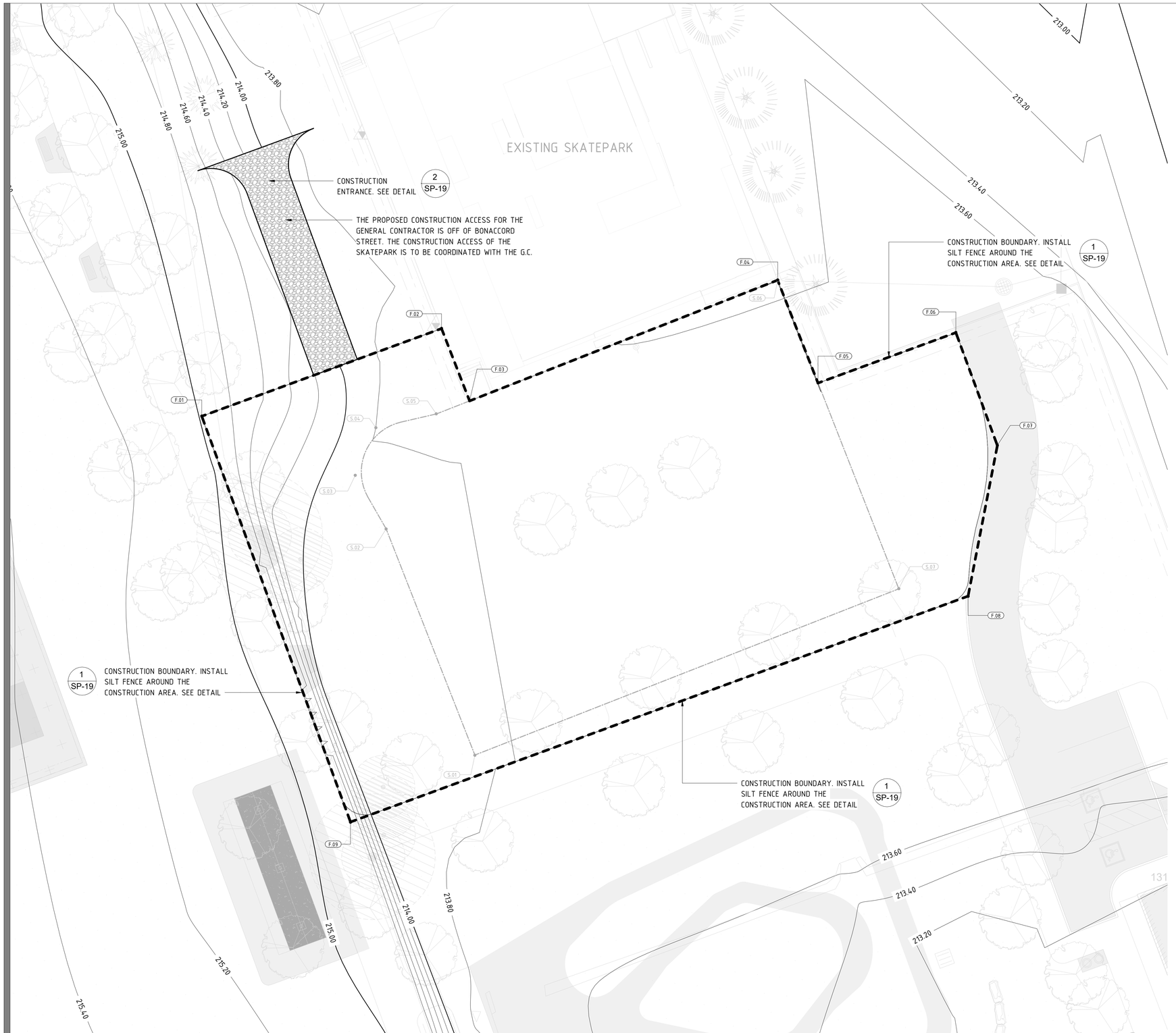
SEAL:

DESIGNED BY: J.D FIELDS
DRAWN BY: M. ESPINOZA
APPROVED BY: A.HORDOS
DATE: 10/28/2024

SHEET NAME:

PROJECT NOTES AND FEATURES

PROJECT NUMBER: 08861
SHEET NUMBER: SP-03



1 EXISTING CONDITIONS / CONSTRUCTION BOUNDARIES

1 : 150

0 1 2 3 4 5 10 20m

Scale 1: 150

N

LEGEND:

SYMBOL	DESCRIPTION
F.00	SILT FENCE STAKE-OUT LOCATION POINTS
E.00	ENTRANCE STAKE-OUT LOCATION POINTS
S.00	SKATEPARK CONTOUR - STAKE-OUT LOCATIONS / SEE SHEET SP04 STAKE-OUT LOCATIONS
	CONSTRUCTION BOUNDARIES AND SILT FENCING (1 SP-19)
	CONSTRUCTION ENTRANCE (2 SP-19)
	SKATEPARK CONTOUR

NOTES:

FIELD MODIFICATION MAY BE MADE BY BUILD TEAM TO OPTIMIZE USER EXPERIENCE AND SAFETY UPON APPROVAL FROM BOTH THE CUSTOMER AND CANADIAN RAMP COMPANY.

COORDINATE VALUES SHOWN ARE INTENDED FOR HORIZONTAL POSITIONING AND DIMENSION CLARIFICATION ONLY. ALL POINTS SET IN THE FIELD FROM THESE VALUES SHALL FIRST BE CHECKED BY THE CONTRACTOR TO ENSURE THAT THE LOCATION IS CONSISTENT WITH THE DIMENSIONS AND GRAPHIC LOCATIONS SHOWN ON THE APPROVED CONSTRUCTION PLANS. IN THE CASE OF A DISCREPANCY WITH ANY COORDINATE VALUE SHOWN, THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE PROJECT DESIGNER PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY THAT MAY BE AFFECTED.

PREAPARE SITE ACCORDING TO CONTRACT SPECIFICATIONS

1. REPLACE UNSUITABLE SOIL PER CONTRACT SPECIFICATION AND CONFIRM AREAS OF SOIL REPLACEMENT ON SITE WITH THE CITY ENGINEER OR THE PROJECT MANAGER.
2. PROTECT EXISTING FEATURES TO REMAIN AND VEGETATION TO KEEP PER CITY REQUIREMENTS.
3. MARK ALL UTILITIES ON SITE PRIOR TO CONSTRUCTION. PROTECT ALL EXISTING UTILITY LINES AND IF NECESSARY RELOCATE UTILITY LINES AND FEATURES PER CITY.

SITE STAKE OUT LOCATIONS

MARK	NORTHING	EASTING
F.01	4909579.95	712292.11
F.02	4909586.86	712311.01
F.03	4909581.15	712313.22
F.04	4909590.68	712337.50
F.05	4909582.56	712340.68
F.06	4909586.54	712351.55
F.07	4909577.64	712354.82
F.08	4909565.76	712352.51
F.09	4909547.95	712303.83

ALL COORDINATES ARE IN GRID SYSTEM, UTM ZONE 17 (81° WEST LONGITUDE), NAD83 (CSRS) (2010).

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BONNERWORTH PARK SKATEPARK

CUSTOMER CONTACT INFORMATION:
500 GEORGE ST. N., PETERBOROUGH, ON K9H 3R9

SITE ADDRESS:
560 MCDONNEL ST., PETERBOROUGH, ON K9H 2X8

CUSTOMER: CITY OF PETERBOROUGH

SITE GEOLOCATION: 44°18'31"N 78°20'16"W

REV. #	DESCRIPTION	DATE
1		
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SEAL:

DESIGNED BY: J.D FIELDS

DRAWN BY: M. ESPINOZA

APPROVED BY: A.HORDOS

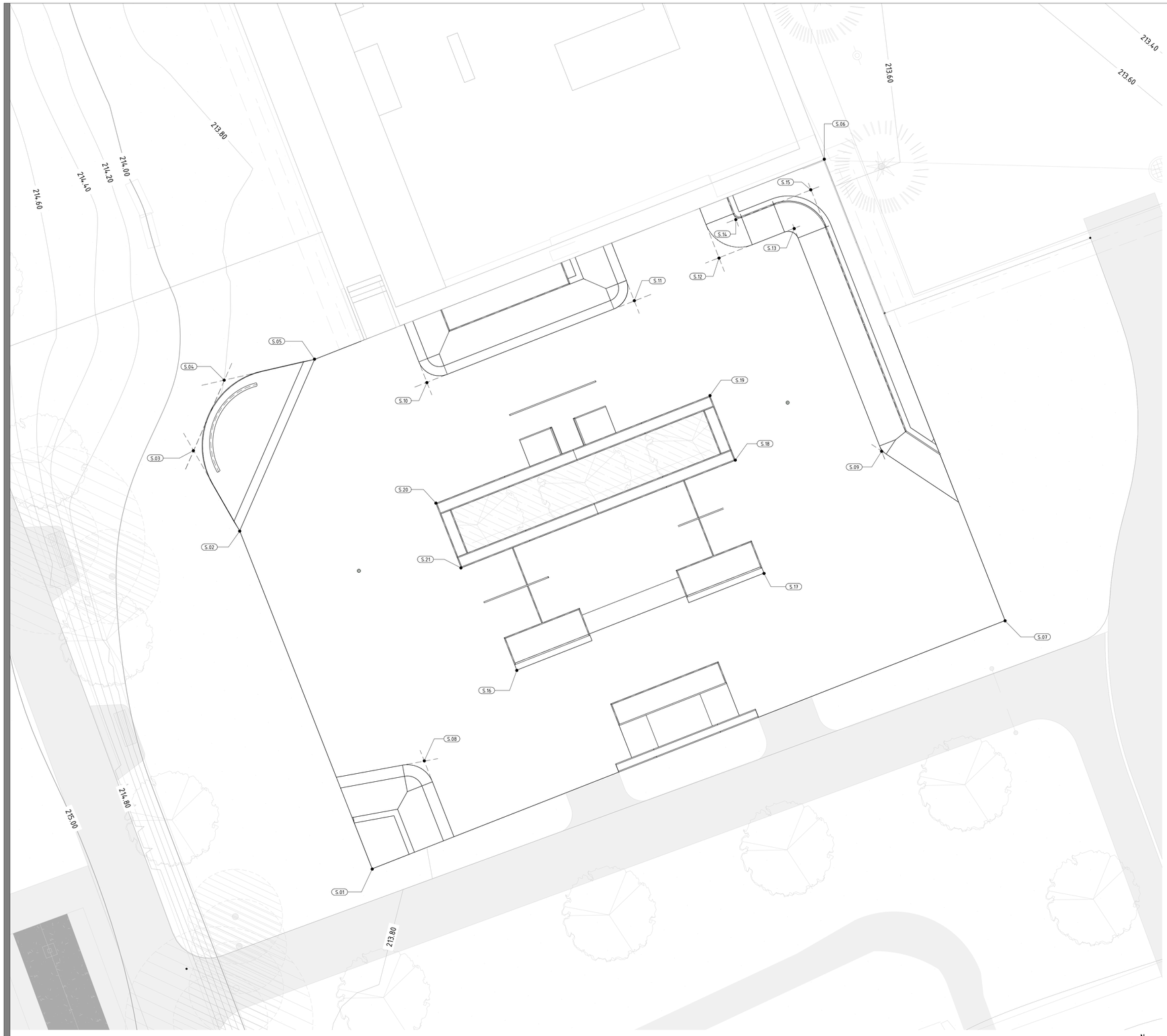
DATE: 10/28/2024

SHEET NAME:

EXISTING CONDITIONS / CONSTRUCTION BOUNDARIES

PROJECT NUMBER: 08861

SHEET NUMBER: SP-04



1 STAKE OUT LOCATIONS

1 : 100

0 1 2 3 4 5 10 m

Scale 1:100

N

LEGEND:

SYMBOL	DESCRIPTION
S.00	SKATEPARK STAKE-OUT LOCATIONS
- - - - - - - -	TANGENT LINE

NOTE:

FIELD MODIFICATIONS MAY BE MADE BY BUILD TEAM TO OPTIMIZE USER EXPERIENCE AND SAFETY, UPON WRITTEN APPROVAL FROM THE CUSTOMER AND CANADIAN RAMP COMPANY.

STAKE OUT LOCATIONS

MARK	EASTING	NORTHING
S.01	712313.63	4909553.23
S.02	712306.64	4909571.07
S.03	712304.21	4909575.30
S.04	712305.83	4909579.03
S.05	712310.59	4909580.12
S.06	712337.50	4909590.68
S.07	712347.05	4909566.34
S.08	712316.39	4909558.92
S.09	712340.53	4909575.29
S.10	712316.52	4909578.91
S.11	712327.47	4909583.21
S.12	712331.95	4909585.49
S.13	712335.92	4909587.05
S.14	712332.83	4909587.52
S.15	712336.80	4909589.08
S.16	712321.27	4909563.72
S.17	712334.32	4909568.84
S.18	712332.81	4909574.79
S.19	712331.47	4909578.20
S.20	712317.00	4909572.52
S.21	712318.33	4909569.12

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BONNERWORTH PARK SKATEPARK

CUSTOMER: CITY OF PETERBOROUGH

SITE GEOLOCATION: 44°18'34"N 78°20'16"W

CUSTOMER CONTACT INFORMATION: 500 GEORGE ST. N., PETERBOROUGH, ON K9H 3R9

SITE ADDRESS: 560 MCDONNEL ST., PETERBOROUGH, ON K9H 2X8

REV #	DESCRIPTION	DATE
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SEAL:

DESIGNED BY: J.D FIELDS

DRAWN BY: M. ESPINOZA

APPROVED BY: A.HORDOS

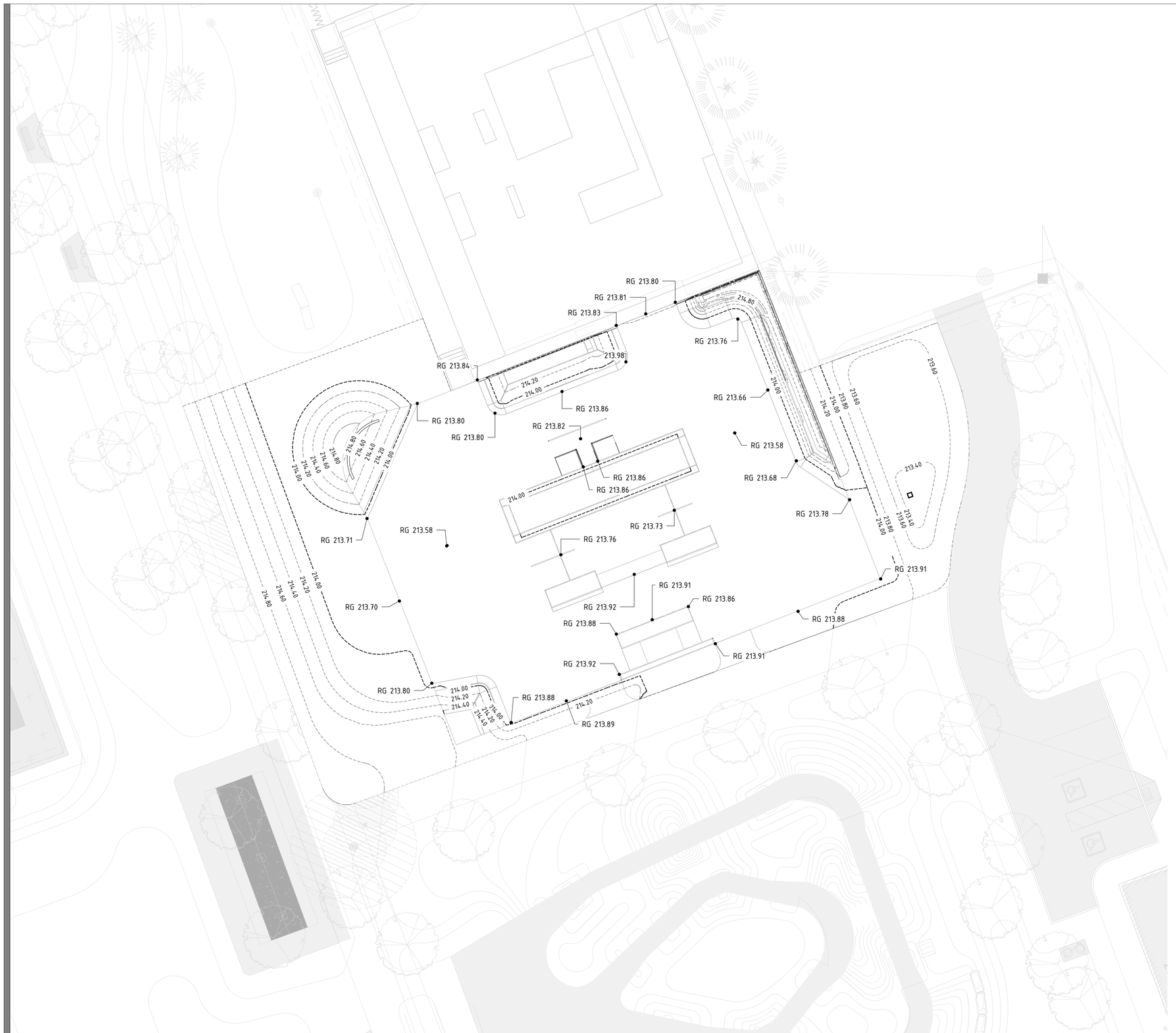
DATE: 10/28/2024

SHEET NAME:

STAKE-OUT LOCATIONS

PROJECT NUMBER: 08861

SHEET NUMBER: SP-05



1 ROUGH GRADING

1 : 150

0 1 2 3 4 5 10 20m

Scale 1: 150

N

LEGEND:

SYMBOL	DESCRIPTION
205	EXISTING MINOR GRADE LINES
206	EXISTING MAJOR GRADE LINES
205	MINOR GRADE LINES
206	MAJOR GRADE LINES
RG 1234.56	UNLESS OTHERWISE INDICATED, SPOT ELEVATION REFERS TO FINISHED ELEVATION OF DIRTWORK BELOW 4" (10cm) OF CONCRETE SLAB AND 4" (10cm) OF GRANULAR BASE FOR 8" (20cm) TOTAL.

NOTES:

FIELD MODIFICATION MAY BE MADE BY BUILD TEAM TO OPTIMIZE USER EXPERIENCE AND SAFETY, UPON WRITTEN APPROVAL FROM THE CUSTOMER AND CANADIAN RAMP COMPANY. WHERE THE SKATEPARK SHOULD MEET WITH GRADE ADJUST EXISTING GRADE TO GUARANTEE WATER RUNOFF.

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BONNERWORTH PARK SKATEPARK

CUSTOMER: CITY OF PETERBOROUGH

CUSTOMER CONTACT INFORMATION: 500 GEORGE ST. N., PETERBOROUGH, ON K9H 3R9

SITE ADDRESS: 560 MCDONNEL ST., PETERBOROUGH, ON K9H 2X8

SITE GEOLOCATION: 44°18'48.94"N 78°20'16.74"W

REV.#	DESCRIPTION	DATE
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SEAL:

DESIGNED BY: J.D FIELDS

DRAWN BY: M. ESPINOZA

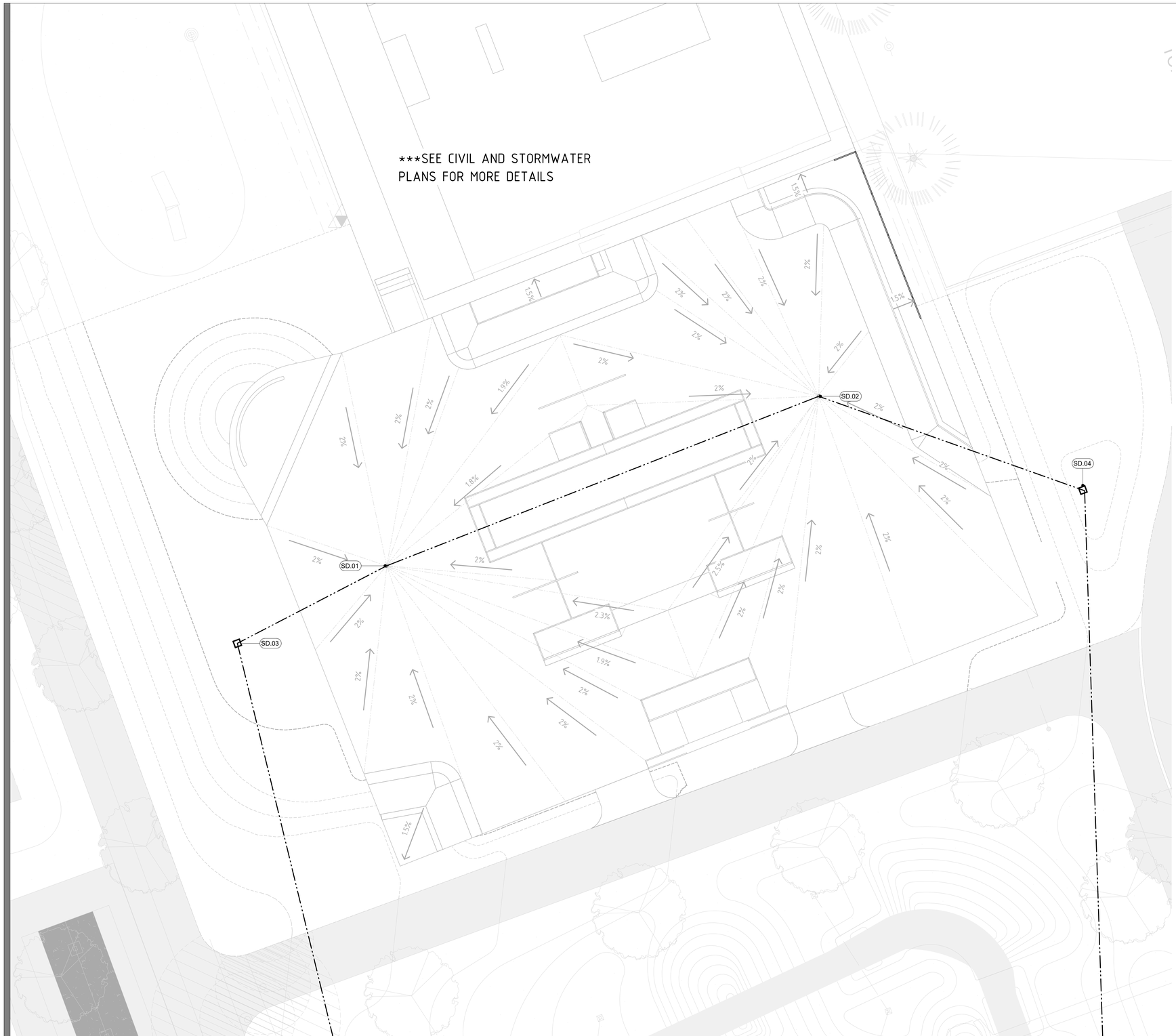
APPROVED BY: A.HORDOS

DATE: 10/28/2024

SHEET NAME: ROUGH GRADING

PROJECT NUMBER: 08861

SHEET NUMBER: SP-06



1 DRAINAGE

1 : 100

0 1 2 3 4 5 10 m

Scale 1:100

N

LEGEND:

DETAIL	SYMBOL	DESCRIPTION
	SD.00	STORM DRAIN STAKE-OUT LOCATION
12 SP-19	•	SLAB DRAIN
		RIDGES TO GUARANTEE RUN-OFF
	1.5%	GENERAL SLOPE DIRECTION OF CONCRETE. CONCRETE TO SLOPE @ MIN 1.5%- MAX.2.5% OFF SITE, OR TO NEAREST DRAIN.
13 SP-20	□	12"x12"SQUARE CATCH BASIN
		DRAINAGE SYSTEM. SEE CIVIL AND STORMWATER PLANS FOR MORE DETAILS.

NOTE:

FIELD MODIFICATION MAY BE MADE BY BUILD TEAM TO OPTIMIZE USER EXPERIENCE AND SAFETY, UPON WRITTEN APPROVAL OF BOTH THE CUSTOMER AND CANADIAN RAMP COMPANY.

DRAINAGE FIXTURES QUANTITIES (METER)

REF.NO	TYPE	RIM EL.	EASTING	NORTHING
SD.01	SLAB DRAIN	213.78	712312.93	4909568.96
SD.02	SLAB DRAIN	213.78	712335.57	4909577.84
SLAB DRAIN: 2				
SD.03	12x12 SQUARE CATCH BASIN	213.90	712305.10	4909564.90
SD.04	12x12 SQUARE CATCH BASIN	213.35	712349.41	4909572.93
12x12 SQUARE CATCH BASIN: 2				

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BONNERWORTH PARK SKATEPARK

CUSTOMER CONTACT INFORMATION: 500 GEORGE ST. N., PETERBOROUGH, ON K9H 3R9

SITE ADDRESS: 560 MCDONNEL ST, PETERBOROUGH, ON K9H 2X8

CUSTOMER: CITY OF PETERBOROUGH

SITE GEOLOCATION: 44°18'37"N, 78°20'16"W

REV.#	DESCRIPTION	DATE
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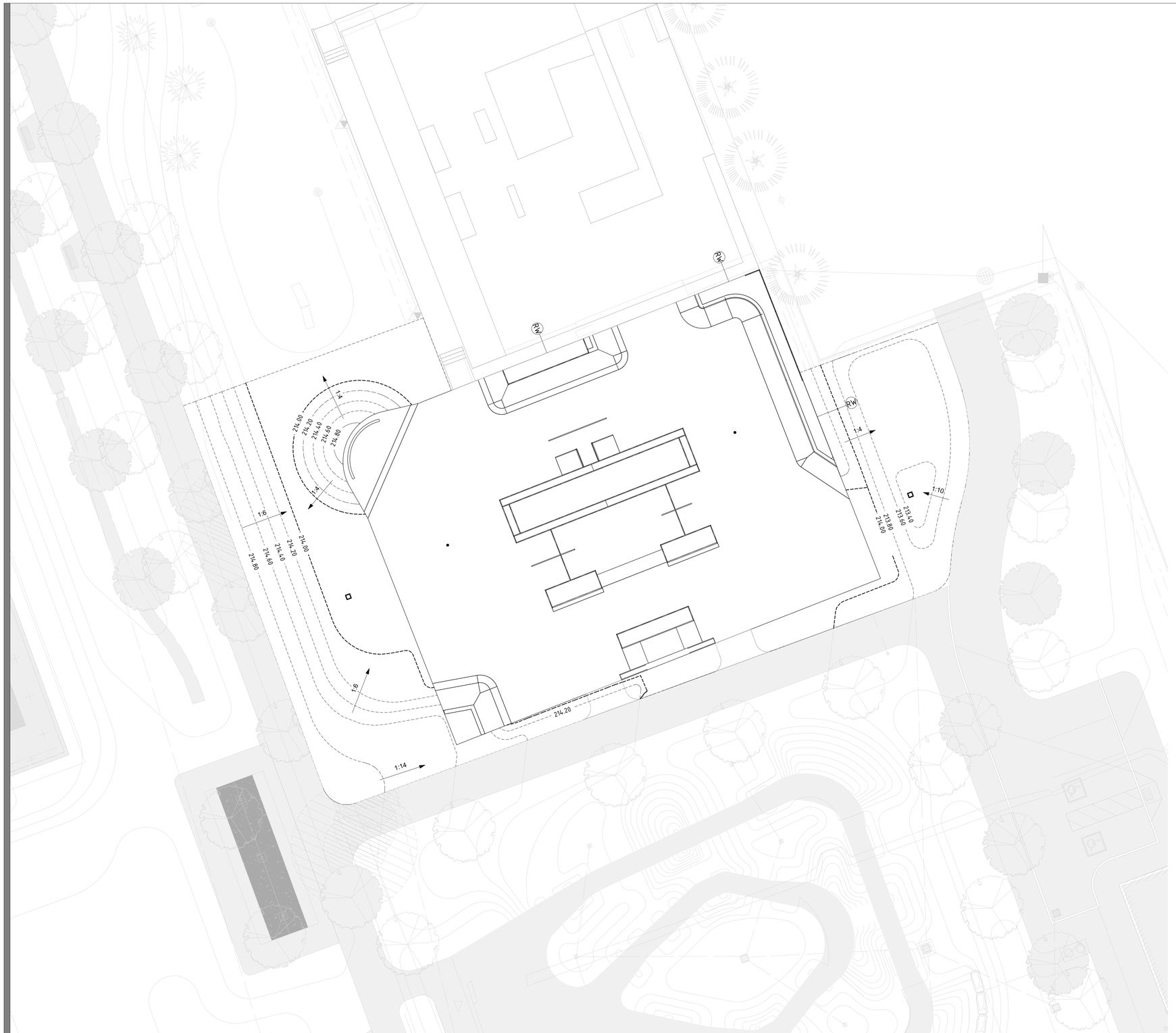
APPROVED BY: A.HORDOS

DATE: 10/28/2024

SHEET NAME: DRAINAGE

PROJECT NUMBER: 08861

SHEET NUMBER: SP-07



1 FINISHED GRADING

1 : 150

0 1 2 3 4 5 10 20m

Scale 1: 150

N

LEGEND:

SYMBOL	DESCRIPTION
205	EXISTING MINOR GRADE LINES
206	EXISTING MAJOR GRADE LINES
205	MINOR GRADE LINES
206	MAJOR GRADE LINES
4:1	GENERAL DIRECTION AND RATE OF SLOPE
RW	RETAINING WALL

NOTES:

FIELD MODIFICATION MAY BE MADE BY BUILD TEAM TO OPTIMIZE USER EXPERIENCE AND SAFETY.

WHERE THE SKATEPARK SHOULD MEET WITH GRADE ADJUST EXISTING GRADE TO GUARANTEE WATER RUNOFF.

GRADING IS BASED ON EXISTING APPROXIMATE GRADE INFORMATION. CONFIRM ELEVATIONS ON SITE AND ADJUST GRADES ACCORDINGLY.

EXISTING VS FINAL GRADING CUT/FILL QUANTITIES...

NAME	COMPACTED CUT	COMPACTED FILL	COMPACTED NET CUT/FILL	LOOSE CUT	LOOSE FILL	LOOSE NET CUT/FILL
FINE GRADING	41 m^3	295 m^3	254 m^3	69	501	431
	41 m^3	295 m^3	254 m^3			

CANADIAN RAMP COMPANY

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INNERKIP, ONTARIO N0J 1M0
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BONNERWORTH PARK SKATEPARK

CUSTOMER CONTACT INFORMATION: 500 GEORGE ST. N., PETERBOROUGH, ON K9H 3R9

SITE ADDRESS: 560 MCDONNEL ST, PETERBOROUGH, ON K9H 2X8

CUSTOMER: CITY OF PETERBOROUGH

SITE GEOLOCATION: 44°18'37"N, 78°20'16"W

REV.#	DESCRIPTION	DATE
1		
2		
3		
4		
5		
6		

SEAL:

DESIGNED BY: J.D FIELDS

DRAWN BY: M. ESPINOZA

APPROVED BY: A.HORDOS

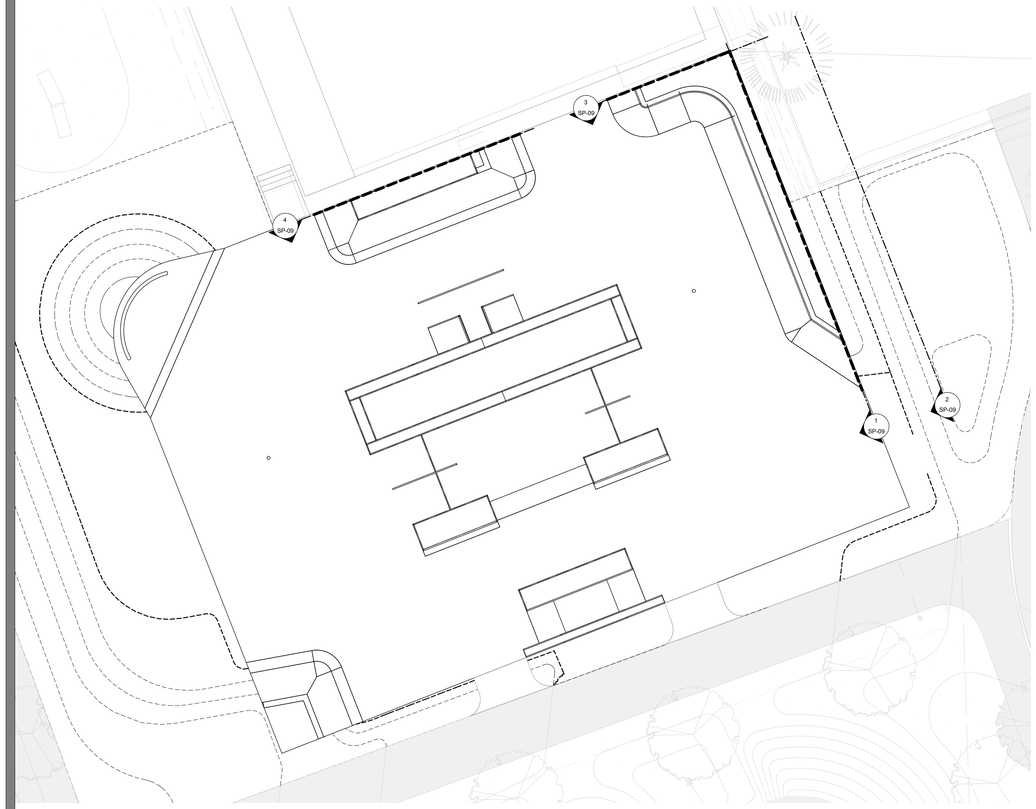
DATE: 10/28/2024

SHEET NAME:

FINISHED GRADING

PROJECT NUMBER: 08861

SHEET NUMBER: SP-08



A

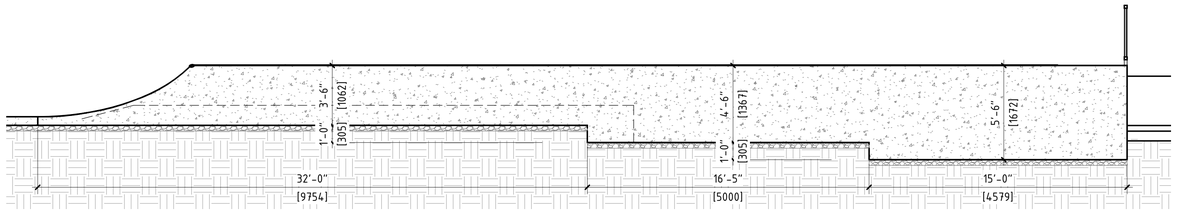
RETAINING WALLS

1 : 150

0 1 2 3 4 5 10 20m

Scale 1: 150

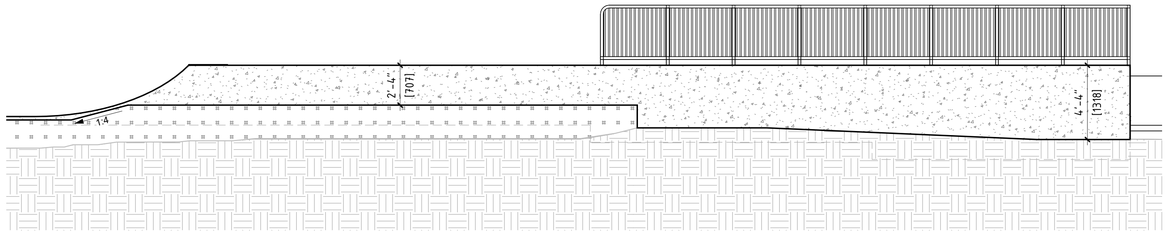
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1

QUARTERPIPE BACK WALL SECTION

1 : 50



2

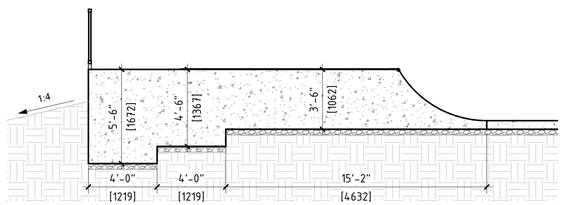
QUARTERPIPE BACK WALL VIEW

1 : 50

0 1 2 3 4 5m

Scale 1: 50

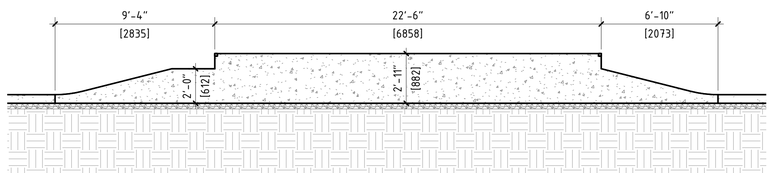
N



3

QUARTERPIPE WALL SECTION

1 : 50



4

BANK RAMP BACK WALL SECTION

1 : 50

LEGEND:

DETAIL	SYMBOL	DESCRIPTION
23 / SP-20	------	8" TURN DOWN WALLS OR RETAINING WALLS
		CONCRETE
		GRANULAR BASE
		COMPACTED SUBGRADE
		SURFACE LANDSCAPING

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BONNERWORTH PARK SKATEPARK

CUSTOMER CONTACT INFORMATION:
500 GEORGE ST. N., PETERBOROUGH, ON K9H 3R9

SITE ADDRESS:
560 MCDONNEL ST, PETERBOROUGH, ON K9H 2X8

CUSTOMER:
CITY OF PETERBOROUGH

SITE GEOLOCATION:
44°18'31"N, 78°20'16"W

REV.#	DESCRIPTION	DATE
1		
2		
3		
4		
5		
6		

SEAL:

DESIGNED BY: J.D FIELDS
DRAWN BY: M. ESPINOZA
APPROVED BY: A.HORDOS
DATE: 10/28/2024

SHEET NAME:

TURN-DOWN AND RETAINING WALLS

PROJECT NUMBER: 08861

SHEET NUMBER: SP-09



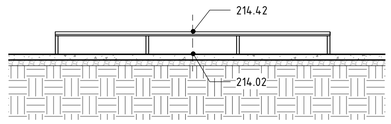
1 | ELEVATIONS

1 : 100

0 1 2 3 4 5 10 m

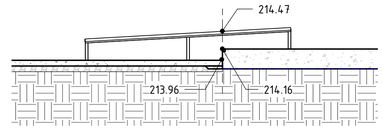
Scale 1:100

N



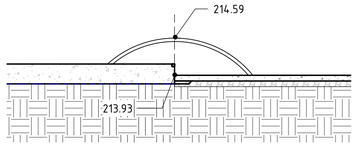
A | FLAT RAIL ELEVATION

1 : 50



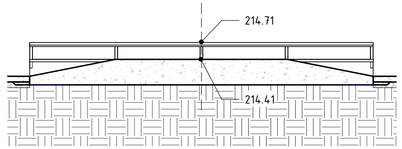
B | ROUND PIPE RAIL ELEVATION

1 : 50



C | CURVE RAIL ELEVATION

1 : 50



D | FLAT RAIL ELEVATION

1 : 50

0 1 2 3 4 5m

Scale 1: 50

N

LEGEND

SYMBOL	DESCRIPTION
1.5% ←	GENERAL SLOPE DIRECTION OF CONCRETE. CONCRETE TO SLOPE @ MIN 1.5%-MAX.2.5% OFF SITE, OR TO NEAREST DRAIN.
1234.56	UNLESS OTHERWISE INDICATED, SPOT ELEVATION REFERS TO FINISHED FLOOR ELEVATION OF CONCRETE FLATWORK.
D 1234.56	DRAINAGE ELEVATION
	RIDGES TO GUARANTEE RUN-OFF

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BONNERWORTH PARK SKATEPARK

CUSTOMER: CITY OF PETERBOROUGH

SITE GEOLOCATION: 44°18'31"N 78°20'16"W

CUSTOMER CONTACT INFORMATION: 500 GEORGE ST. N., PETERBOROUGH, ON K9H 3R9

SITE ADDRESS: 560 MCDONNEL ST, PETERBOROUGH, ON K9H 2X8

REV.#	DESCRIPTION	DATE
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2		
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SEAL:

DESIGNED BY: J.D FIELDS

DRAWN BY: M. ESPINOZA

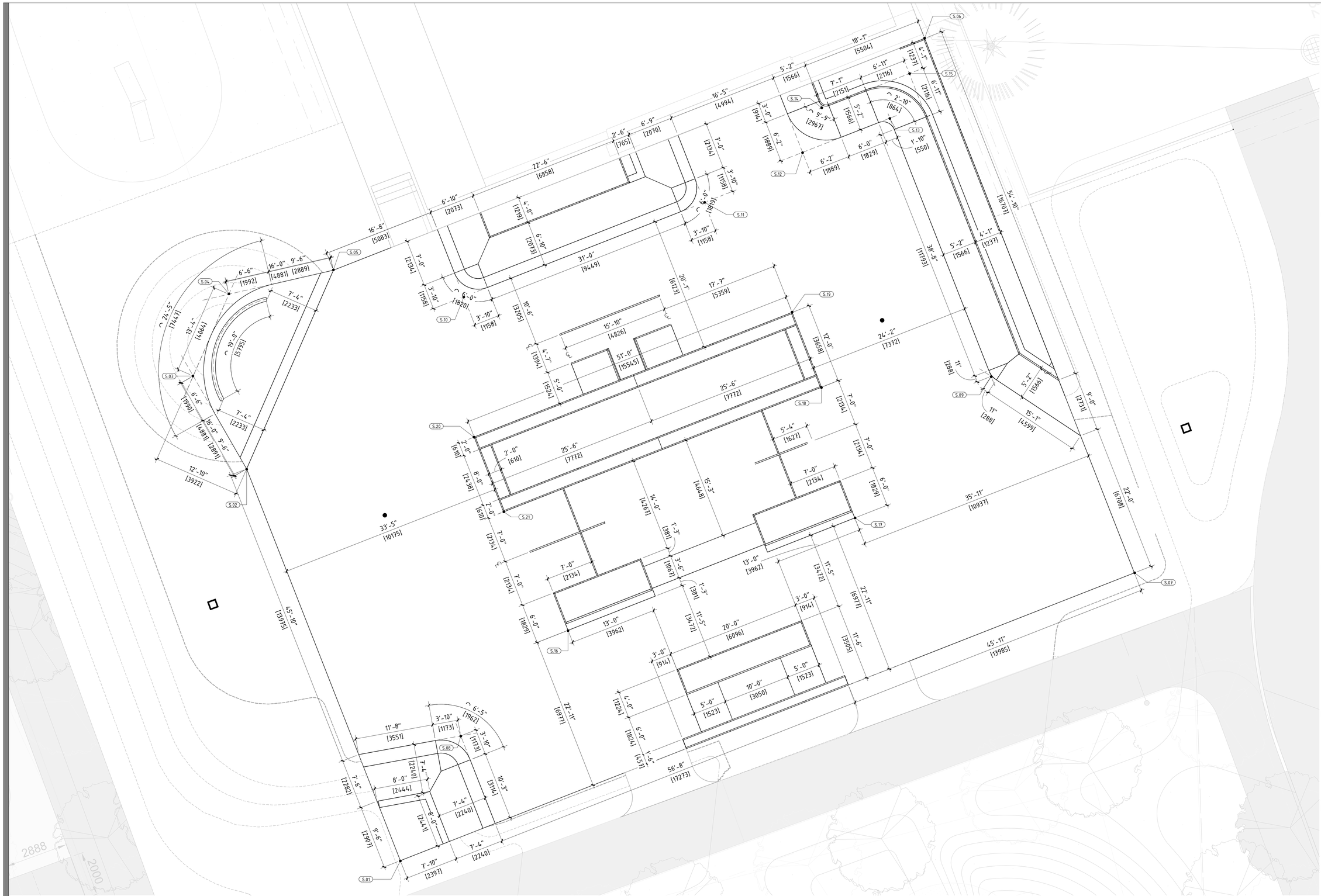
APPROVED BY: A.HORDOS

DATE: 10/28/2024

SHEET NAME: ELEVATIONS

PROJECT NUMBER: 08861

SHEET NUMBER: SP-10



1 DIMENSIONS LINEAL AND ARC

1 : 75

0 1 2 3 4 5 10m

Scale 1: 75

N

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BONNERWORTH PARK SKATEPARK

CUSTOMER: CITY OF PETERBOROUGH

SITE GEOLOCATION: 44°18'37"N, 78°20'16"W

CUSTOMER CONTACT INFORMATION:
500 GEORGE ST. N., PETERBOROUGH, ON K9H 3R9

SITE ADDRESS:
560 MCDONNEL ST, PETERBOROUGH, ON K9H 2X8

REV.#	DESCRIPTION	DATE
1		
2		
3		
4		
5		
6		

SEAL:

DESIGNED BY: J.D FIELDS

DRAWN BY: M. ESPINOZA

APPROVED BY: A.HORDOS

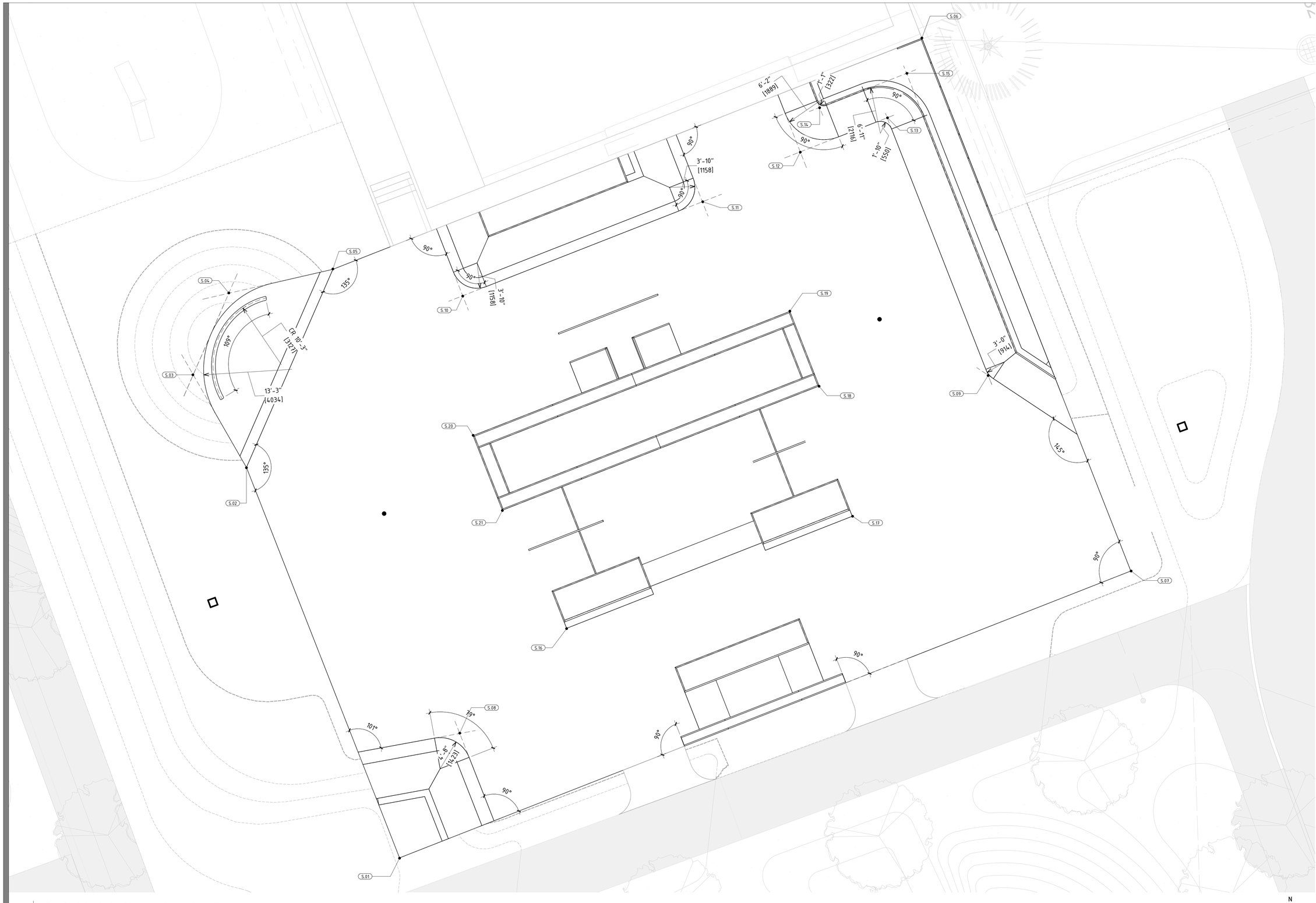
DATE: 10/28/2024

SHEET NAME:

DIMENSIONS LINEAR AND ARC

PROJECT NUMBER: 08861

SHEET NUMBER: SP-11



1 DIMENSIONS RADIAL AND ANGULAR

1 : 75

0 1 2 3 4 5 10m

Scale 1: 75

N

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BONNERWORTH PARK SKATEPARK

CUSTOMER CONTACT INFORMATION:
500 GEORGE ST. N., PETERBOROUGH, ON K9H 3R9

SITE ADDRESS:
560 MCDONNEL ST., PETERBOROUGH, ON K9H 2X8

CUSTOMER:
CITY OF PETERBOROUGH

SITE GEOLOCATION:
44°18'31"N 78°20'16"W

REV.#	DESCRIPTION	DATE
1		
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SEAL:

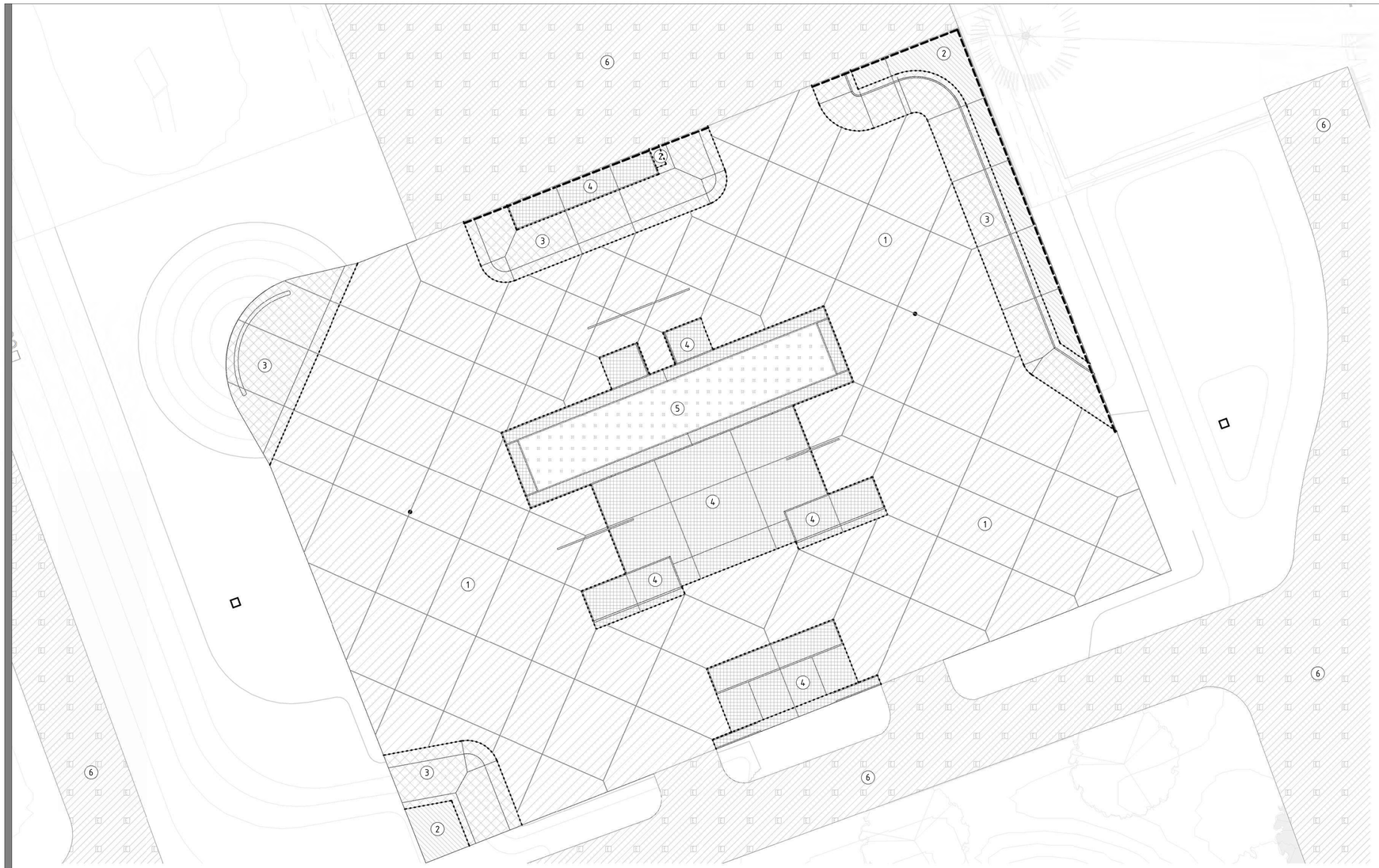
DESIGNED BY:	J.D FIELDS
DRAWN BY:	M. ESPINOZA
APPROVED BY:	A.HORDOS
DATE:	10/28/2024

SHEET NAME:

DIMENSIONS RADIAL AND ANGULAR

PROJECT NUMBER: 08861

SHEET NUMBER: SP-12



1 MATERIALS AND JOINTING

1 : 100

0 1 2 3 4 5 10 m

Scale 1:100

N

PROJECT MATERIALS

DETAIL	SYMBOL	DESCRIPTION
14 / SP-20	1	4" NATURAL COLOR - CONCRETE SLAB WITH 6" THICK 12" WIDE THICKENED EDGES
	2	4" KAILUA 677 COLOR - CONCRETE SLAB WITH 6" THICK 12" WIDE THICKENED EDGES
19 / SP-20	3	6" KAILUA 677 COLOR - SHOTCRETE CONCRETE SKATEPARK FEATURES OR ADJACENT FLATWORK
	4	6" KAILUA 677 COLOR - POURED CONCRETE SKATEPARK FEATURES OR ADJACENT FLATWORK
	5	LANDSCAPING
	6	EXISTING OR DONE BY OTHERS

NOTES:

**JOINT PLAN HAS BEEN DEVELOPED TO PROVIDE GUIDANCE TO THE CONTRACTOR FOR THE USE OF SAW CUTS, COLD & EXPANSION JOINTS. ACTUAL FIELD VARIANCES WILL TAKE PRECEDENCE OVER THIS GUIDE. CONTRACTOR SHALL CUT SLAB AS NEEDED TO PREVENT CRACKING MIN 24 HOURS AFTER POURING. ALIGN SAW CUTS WITH COLD JOINTS AND START FROM CORNERS WHERE POSSIBLE TO PREVENT EXCESS CRACKING. SAW CUTS SHALL BE NO MORE THAN 10' X 12' AND/OR NOT TO EXCEED 120 SQUARE FEET AND A 2:1 MAX. RATIO BETWEEN SAW CUTS AND COLD OR EXPANSION JOINTS. ALL SAW CUTS TO BE FILLED WITH SELF-LEVELING POLYURETHANE SEALANT AND TOOLED FLAT. EXPANSION JOINTS TO BE FILLED WITH POLYURETHANE BASED NON- SAGGING ELASTOMERIC SEALANT AND TOOLED FLAT. COLOR OF CAULK SHOULD RESEMBLE COLOR OF CONCRETE (ALUMINUM GRAY OR SIMILAR)

** PROVIDE 1/8" TOOLED EDGES TO JOINTS - SEE TYPICAL DETAILS & CONSTRUCTION SPECIFICATIONS FOR JOINT INFORMATION & INSTALLATION

** DEPENDING ON DIRT WORK ADDITIONAL RETAINING / TURN DOWN WALLS MAY OCCUR

** FIELD MODIFICATION MAY BE MADE BY BUILD TEAM TO OPTIMIZE USER EXPERIENCE AND SAFETY, UPON WRITTEN APPROVAL FROM THE CUSTOMER AND CANADIAN RAMP COMPANY.

FLATWORK CONCRETE

CONCRETE TYPE	NAME	SURFACE AREA (M2)	VOLUME (M3)	REBAR (LNM)
FLATWORK	FLATWORK CONCRETE KAILUA COLOR	25.12 m^2	2.55 m^3	271
FLATWORK	FLATWORK CONCRETE NATURAL COLOR	644.29 m^2	65.40 m^3	6958
		669.41 m^2	67.94 m^3	7230

GRANULAR BASE

MATERIAL TIPE	NAME	SURFACE AREA (M2)	VOLUME (M3)
FLATWORK	GRANULAR BASE	669.41 m^2	67.34 m^3
		669.41 m^2	67.34 m^3

SHOTCRETE

CONCRETE TYPE	NAME	SURFACE AREA(M2)	VOLUME (M3)	REBAR (LNM)
SHOTCRETE	SHOTCRETE CONCRETE KAILUA COLOR	125.79 m^2	19.26 m^3	1358
		125.79 m^2	19.26 m^3	1358

REBAR QUANTITIES (AREA BASED CALCULATION)

NAME	AREA	REBAR TOTAL LENGTH + 20% WASTE	REBAR UNITS + 20% WASTE
SKATE PARK AREA	941 m^2	10159	1693

POURED CONCRETE

CONCRETE TYPE	NAME	AREA (M2)	VOLUME (M3)	REBAR (LNM)
POURED	POURED CONCRETE KAILUA COLOR	97.11 m^2	56.96 m^3	1049
Grand total: 50		97.11 m^2	56.96 m^3	1049

CONSTRUCTION DETAILS

15 / SP-20, 17 / SP-20	COLD JOINT
16 / SP-20	SAW CUT
23 / SP-20	8"TURN DOWN WALLS

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BONNERWORTH PARK SKATEPARK

CUSTOMER CONTACT INFORMATION: 500 GEORGE ST. N., PETERBOROUGH, ON K9H 3R9

SITE ADDRESS: 560 MCDONNEL ST., PETERBOROUGH, ON K9H 2X8

CUSTOMER: CITY OF PETERBOROUGH

SITE GEOLOCATION: 44°18'34"N 78°20'16"W

REV #	DESCRIPTION	DATE
1		
2		
3		
4		
5		
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SEAL:

DESIGNED BY: J.D FIELDS

DRAWN BY: M. ESPINOZA

APPROVED BY: A.HORDOS

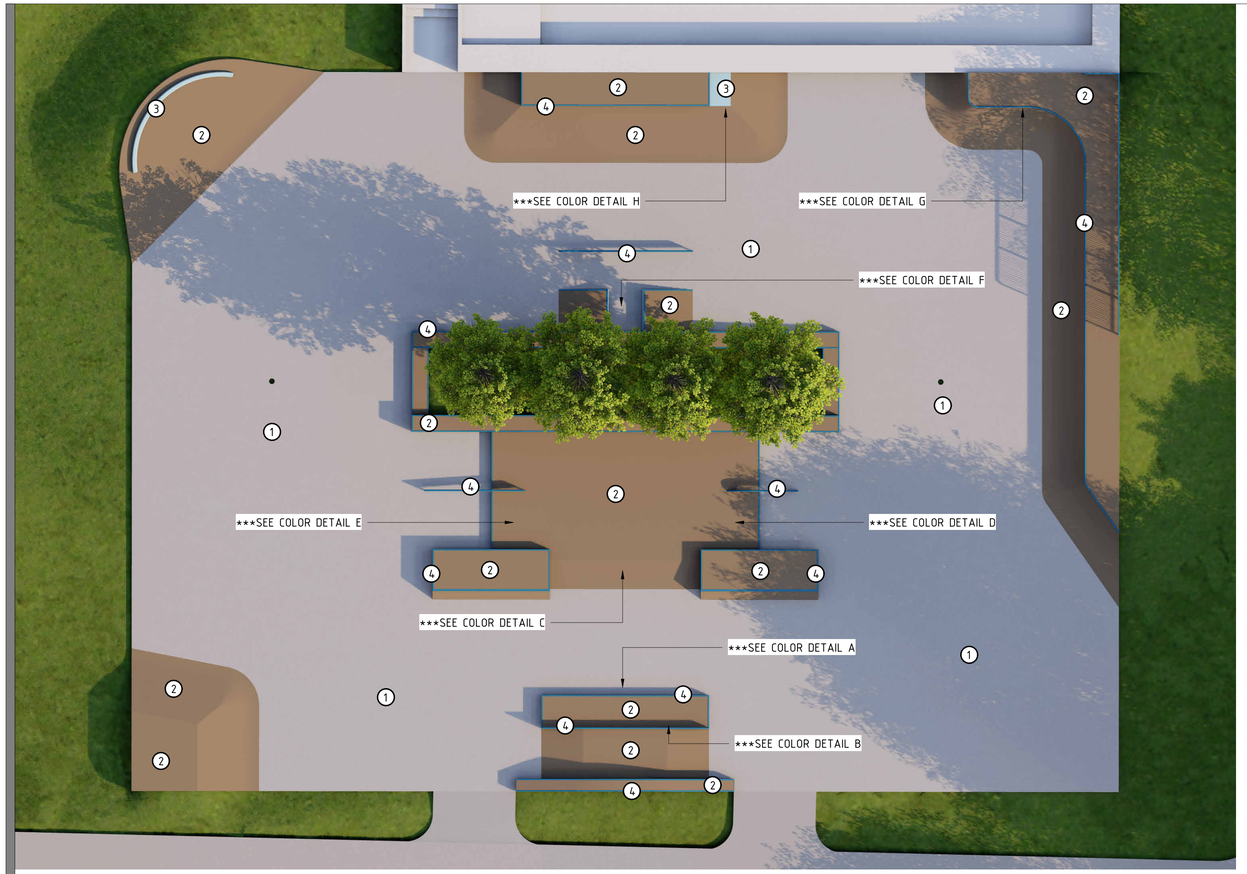
DATE: 10/28/2024

SHEET NAME:

MATERIALS AND JOINTING

PROJECT NUMBER: 08861

SHEET NUMBER: SP-13

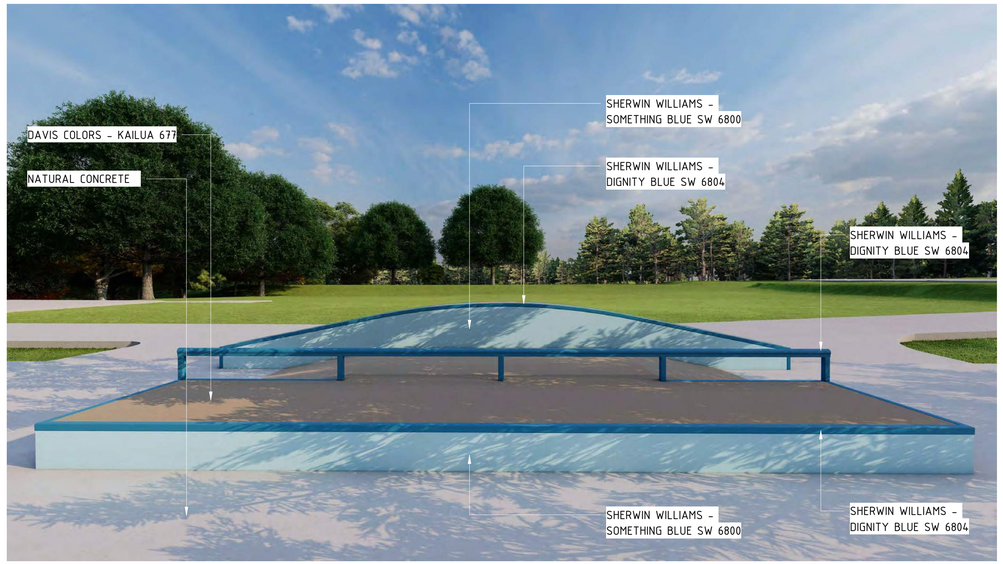


1 COLOR SCHEME

N.T.S

LEGEND:

COLOR	DESCRIPTION	COLOR	DESCRIPTION
1	NATURAL CONCRETE	3	SHERWIN WILLIAMS - SOMETHING BLUE SW 6800
2	DAVIS COLORS - KAILUA 677	4	SHERWIN WILLIAMS - DIGNITY BLUE SW 6804



A COLOR DETAIL A

N.T.S



B COLOR DETAIL B

N.T.S



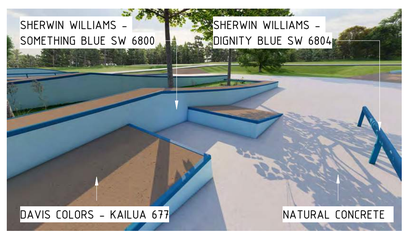
C COLOR DETAIL C

N.T.S



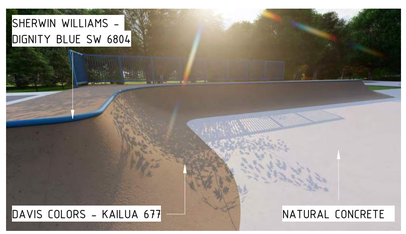
D COLOR DETAIL D

N.T.S



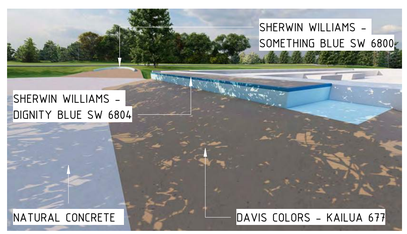
F COLOR DETAIL F

N.T.S



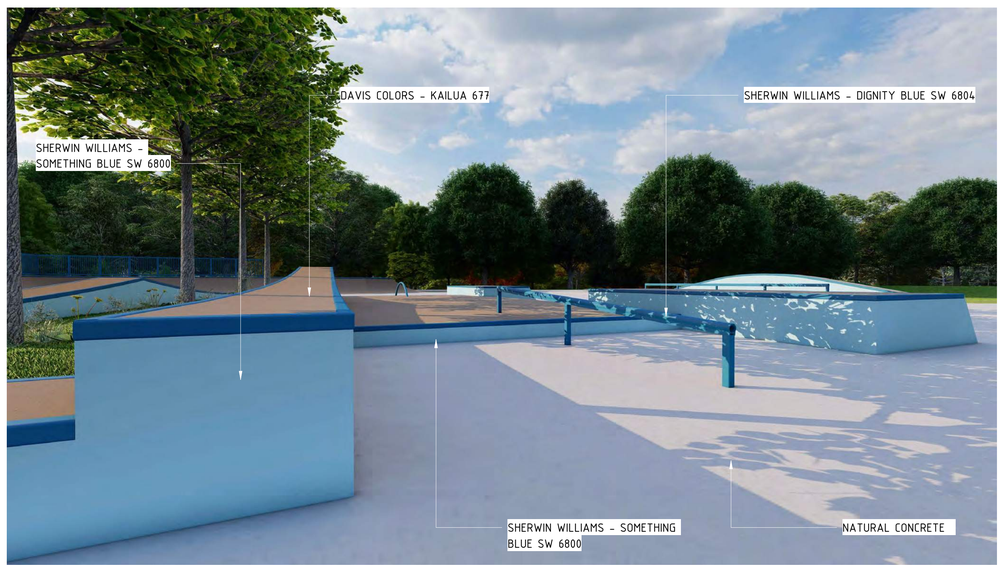
G COLOR DETAIL G

N.T.S



H COLOR DETAIL H

N.T.S



E COLOR DETAIL E

N.T.S

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BONNERWORTH PARK SKATEPARK

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SITE GEOLOCATION: 44°18'31"N 78°20'16"W

REV.#	DESCRIPTION	DATE
1		
2		
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6		

SEAL:

DESIGNED BY: J.D FIELDS

DRAWN BY: M. ESPINOZA

APPROVED BY: A.HORDOS

DATE: 10/28/2024

SHEET NAME: COLOR SCHEME

PROJECT NUMBER: 08861

SHEET NUMBER: SP-14



1 METALS

1 : 100

0 1 2 3 4 5 10 m

Scale 1:100

N

METALS QUANTITIES (METER)

REF.NO	Q.TY	SHOP	LENGTH	WASTE (20%)	TOTAL LENGTH
2"x 2"x3/16 SQUARE TUBE - EDGING					
S.01	2	X	7.25	1.45	8.70
S.02	8	X	10.62	2.12	12.74
S.03	2		3.05	0.61	3.66
S.04	2		2.46	0.49	2.95
S.05	1		6.10	1.22	7.32
S.06	4		6.11	1.22	7.34
S.07	2		8.55	1.71	10.26
S.08	2		8.53	1.71	10.24
S.09	12	X	46.73	9.35	56.08
S.10	2		1.23	0.25	1.47
S.11	2		6.09	1.22	7.31
S.12	2		4.87	0.97	5.85
S.13	4	X	15.48	3.10	18.58
S.14	2		3.05	0.61	3.66
S.15	2		3.61	0.72	4.33
S.16	1		6.86	1.37	8.24
S.17	2		2.44	0.49	2.93
			143.05	28.61	171.66
2"x 2"x3/16 SQUARE TUBE - RAIL LEGS					
GR.01	5	X	2.36	0.47	2.83
GR.02	3	X	2.76	0.55	3.31
GR.03	4	X	3.75	0.75	4.50
			8.86	1.77	10.64
2.375" O.D. PIPE					
	1		5.53	1.11	6.63
C.01	1		0.91	0.18	1.10
C.02	1	X	0.49	0.10	0.59
C.03	1		1.83	0.37	2.19
C.04	1		3.34	0.67	4.00
C.05	1		6.07	1.21	7.28
C.06	1		2.16	0.43	2.59
GR.01	1	X	6.10	1.22	7.32
GR.02	1	X	3.66	0.73	4.39
GR.03	1	X	4.88	0.98	5.85
R.01	1	X	3.92	0.78	4.70
			38.87	7.77	46.64
3" X 3" ANGLE EDGING					
A.01	2		0.75	0.15	0.90
A.02	2		8.34	1.67	10.01
			9.09	1.82	10.91
C-CHANEL					
GR.01	1	X	6.10	1.22	7.32
GR.02	1	X	3.66	0.73	4.39
GR.03	1	X	4.88	0.98	5.85
			14.63	2.93	17.55

GUARDRAILS

MARK	TYPE	LENGTH
G.01	END RAILING	1.22
G.02	END RAILING	9.75
		10.97

METALS LEGEND

DETAIL	SYMBOL	DESCRIPTION
3 / SP-19	S.00	2"X2" SQUARE TUBING W/ ANCHORS WELDED AT 18" O.C. SHALL BE PAINTED WITH NON ASPHALTIC PAINT.
4 / SP-19	C.00	2" NOM. SCH. 40 STEEL PIPE COPING W/ANCHORS WELDED AT 18" O.C. PIPE SHALL BE PAINTED WITH NON ASPHALTIC PAINT. MARKED
7 / SP-19	GR.00	2" NOM. SCH. 40 STEEL PIPE GRIND RAIL WITH 1"X2" C-CHANNEL SUPPORT AND 2"X2" LEGS . SHALL BE PAINTED WITH NON ASPHALTIC PAINT.
8 / SP-19	R.00	2" NOM. SCH. 40 STEEL PIPE. SHALL BE PAINTED WITH NON ASPHALTIC PAINT. MARKED
5 / SP-19 6 / SP-19	A.00	3"X3" ANGLE EDGING W/ ANCHORS WELDED AT 18" O.C. SHALL BE PAINTED WITH NON ASPHALTIC PAINT.
	G.00	GUARDRAIL
		METAL DIVIDING LINE

NOTE:

FIELD MODIFICATION MAY BE MADE BY BUILD TEAM TO OPTIMIZE USER EXPERIENCE AND SAFETY UPON APPROVAL FROM BOTH THE CUSTOMER AND CANADIAN RAMP COMPANY. ALL PIPE DIMENSIONS ARE CENTERLINE DIMENSIONS. EXTENSION FOR FABRICATION PURPOSES IS APPLIED. CUT TO FIT AND CAP ENDS WHERE APPLICABLE ON SITE. ANCHORS TO BE ADDED ON-SITE DURING THE INSTALLATION PROCESS. DO NOT ADD ANCHORS DURING SHOP FABRICATION PROCESS.

CANADIAN RAMP COMPANY

WWW.CANADIANRAMPCOMPANY.CA
43 CURTIS STREET
INNERKIP, ONTARIO N0J 1M0
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BONNERWORTH PARK SKATEPARK

CUSTOMER: CITY OF PETERBOROUGH
CUSTOMER CONTACT INFORMATION: 500 GEORGE ST. N., PETERBOROUGH, ON K9H 3R9
SITE ADDRESS: 560 MCDONNEL ST, PETERBOROUGH, ON K9H 2X8
SITE GEOLOCATION: 44°18'31"N 78°20'16"W

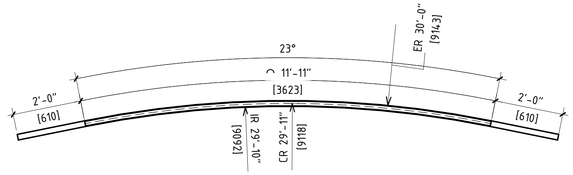
REV #	DESCRIPTION	DATE
1		
2		
3		
4		
5		
6		

SEAL:

DESIGNED BY: J.D FIELDS
DRAWN BY: M. ESPINOZA
APPROVED BY: A.HORDOS
DATE: 10/28/2024

SHEET NAME: METALS AND EDGING

PROJECT NUMBER: 08861
SHEET NUMBER: SP-15

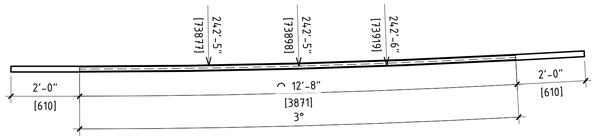


S.01 - RAINBOW HUBBA LEDGE EDGING - SIDE VIEW

X2

1 : 25

STRUCTURAL FRAMING SCHEDULE		
TYPE	COUNT	LENGTH
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	3.62
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	3.62
	2	7.25

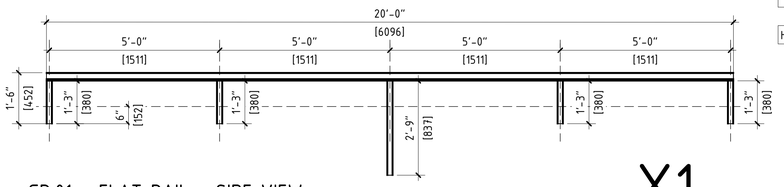


S.14 - PAGODA LEDGE EDGING - SIDE VIEW

X4

1 : 25

STRUCTURAL FRAMING SCHEDULE		
TYPE	COUNT	LENGTH
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	3.87
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	3.87
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	3.87
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	3.87
	4	15.48

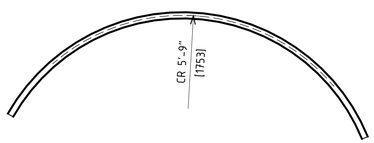


GR.01 - FLAT RAIL - SIDE VIEW

X1

1 : 25

STRUCTURAL FRAMING SCHEDULE		
TYPE	COUNT	LENGTH
C-Channel: C-CHANEL	1	6.10
	1	6.10
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - RAIL LEGS	1	0.38
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - RAIL LEGS	1	0.38
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - RAIL LEGS	1	0.84
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - RAIL LEGS	1	0.38
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - RAIL LEGS	1	0.38
	5	2.36
HSS-Round Structural Tubing1: 2.375" O.D. PIPE	1	6.10
	1	6.10

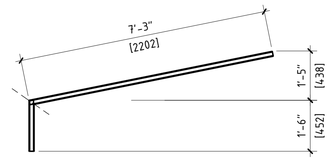


R.01 - RAINBOW RAIL - SIDE VIEW

X1

1 : 25

STRUCTURAL FRAMING SCHEDULE		
TYPE	COUNT	LENGTH
HSS-Round Structural Tubing1: 2.375" O.D. PIPE	1	3.92
	1	3.92

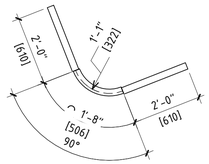


S.02 - RAINBOW HUBBA LEDGE EDGING - SIDE VIEW

X4

1 : 25

STRUCTURAL FRAMING SCHEDULE		
TYPE	COUNT	LENGTH
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	2.20
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	2.20
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	2.20
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	2.20
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	0.45
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	0.45
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	0.45
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	0.45
	8	10.62

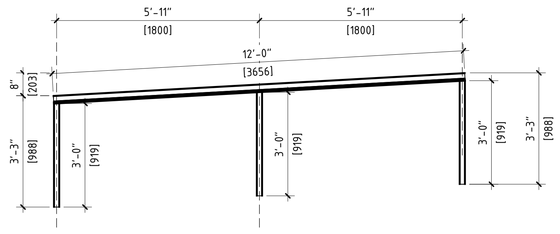


C.02 - QUARTER PIPE RAMP COPING - TOP VIEW

X1

1 : 25

STRUCTURAL FRAMING SCHEDULE		
TYPE	COUNT	LENGTH
HSS-Round Structural Tubing1: 2.375" O.D. PIPE	1	0.49
	1	0.49

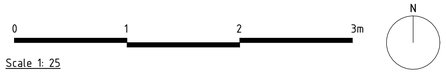


GR.02 - ROUND PIPE RAIL - SIDE VIEW

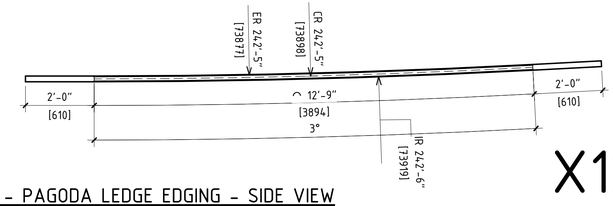
X1

1 : 25

STRUCTURAL FRAMING SCHEDULE		
TYPE	COUNT	LENGTH
C-Channel: C-CHANEL	1	3.66
	1	3.66
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - RAIL LEGS	1	0.92
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - RAIL LEGS	1	0.92
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - RAIL LEGS	1	0.92
	3	2.76
HSS-Round Structural Tubing1: 2.375" O.D. PIPE	1	3.66
	1	3.66



Scale 1: 25

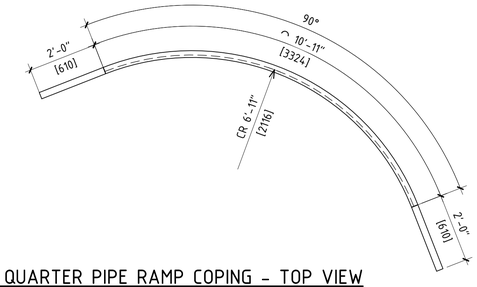


S.10 - PAGODA LEDGE EDGING - SIDE VIEW

X12

1 : 25

STRUCTURAL FRAMING SCHEDULE		
TYPE	COUNT	LENGTH
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	3.89
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	3.89
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	3.89
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	3.89
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	3.89
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	3.89
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	3.89
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	3.89
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	3.89
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	3.89
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - EDGING	1	3.89
	12	46.73

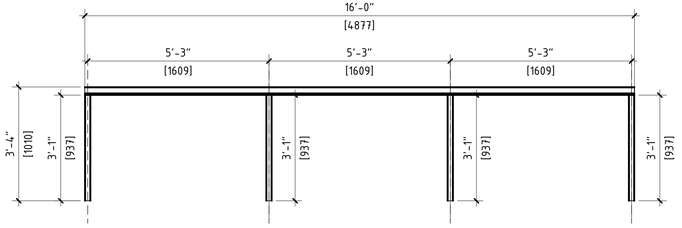


C.04 - QUARTER PIPE RAMP COPING - TOP VIEW

X1

1 : 25

STRUCTURAL FRAMING SCHEDULE		
TYPE	COUNT	LENGTH
HSS-Round Structural Tubing1: 2.375" O.D. PIPE	1	3.34
	1	3.34



GR.03 - FLAT RAIL - SIDE VIEW

X1

1 : 25

STRUCTURAL FRAMING SCHEDULE		
TYPE	COUNT	LENGTH
C-Channel: C-CHANEL	1	4.88
	1	4.88
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - RAIL LEGS	1	0.94
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - RAIL LEGS	1	0.94
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - RAIL LEGS	1	0.94
HSS-Hollow Structural Section: 2"x 2"x3/16 SQUARE TUBE - RAIL LEGS	1	0.94
	4	3.75
HSS-Round Structural Tubing1: 2.375" O.D. PIPE	1	4.88
	1	4.88

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BONNERWORTH PARK SKATEPARK

CUSTOMER CONTACT INFORMATION:
500 GEORGE ST. N., PETERBOROUGH, ON K9H 3R9

SITE ADDRESS:
560 MCDONNEL ST., PETERBOROUGH, ON K9H 2X8

CUSTOMER:
CITY OF PETERBOROUGH

SITE GEOLOCATION:
44°18'31"N 78°20'16"W

REV #	DESCRIPTION	DATE
1		
2		
3		
4		
5		
6		

SEAL:

DESIGNED BY: J.D FIELDS

DRAWN BY: M. ESPINOZA

APPROVED BY: A.HORDOS

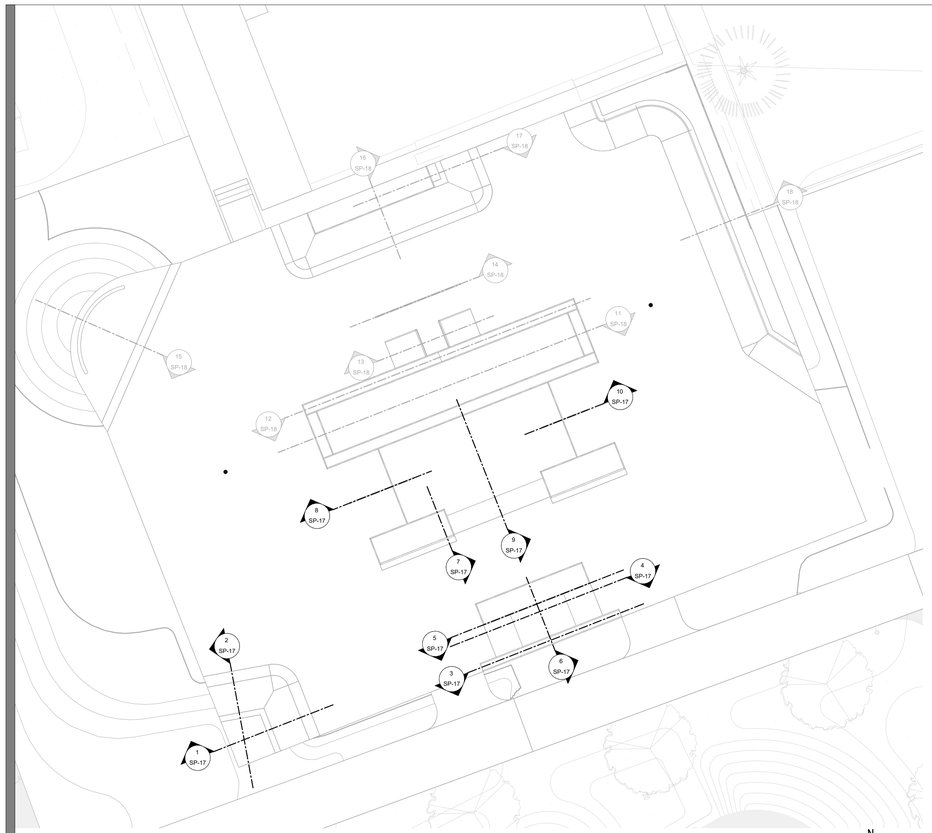
DATE: 10/28/2024

SHEET NAME:

METAL SHOP DRAWINGS I

PROJECT NUMBER: 08861

SHEET NUMBER: SP-16



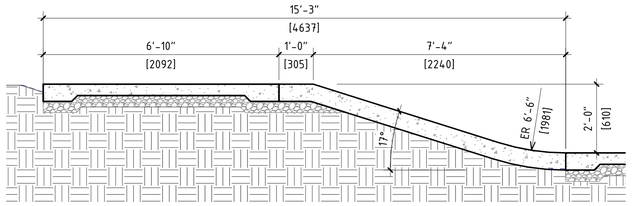
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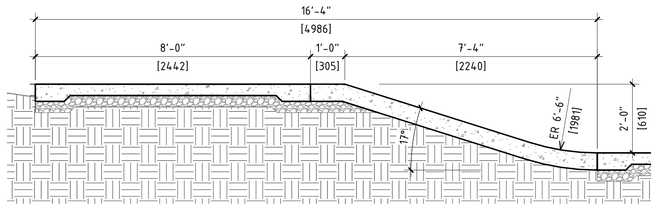
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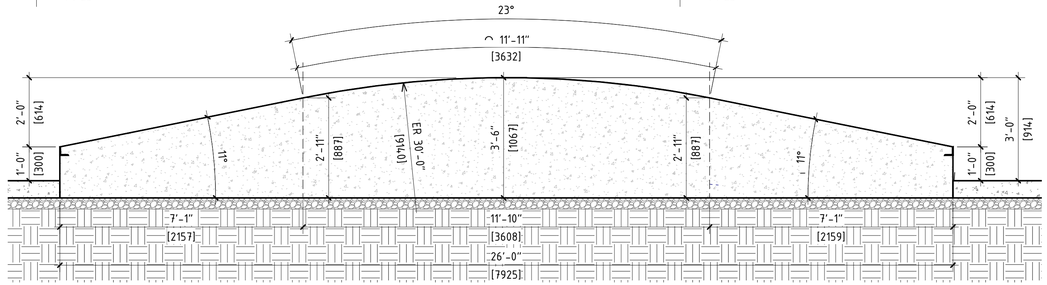
1 BANK RAMP 17.5° SECTION

1 : 25



2 BANK RAMP 17.5° SECTION

1 : 25



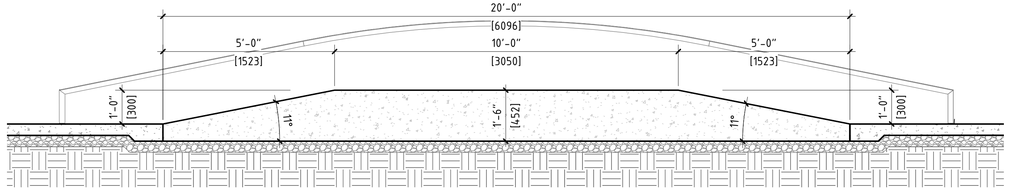
3 RAINBOW HUBBA LEDGE SECTION

1 : 25

SECTION MATERIALS LEGEND

SYMBOL	DESCRIPTION
	CONCRETE
	GRANULAR BASE
	COMPACTED SUBGRADE

ER: EXTERNAL RADIO
CR: CENTRAL RADIO
IR: INTERNAL RADIO



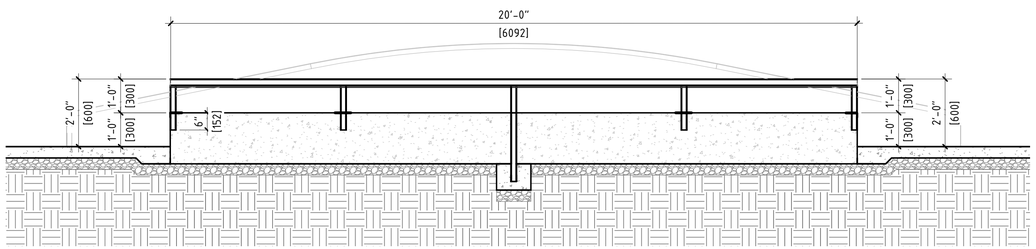
4 BANK TO BANK SECTION

1 : 25

0 1 2 3m

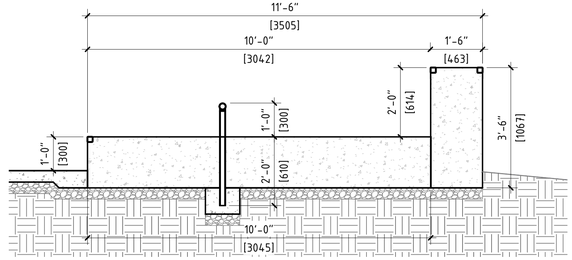
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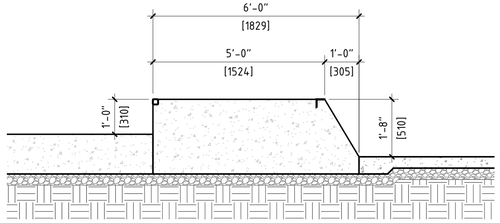
5 GRIND BOX / FLAT RAIL SECTION

1 : 25



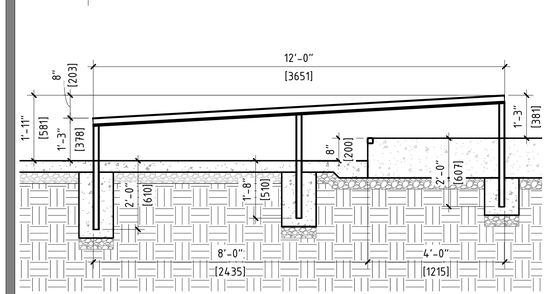
6 GRIND BOX / BANK TO BANK/ RAINBOW HUBBA LEDGE SECTION

1 : 25



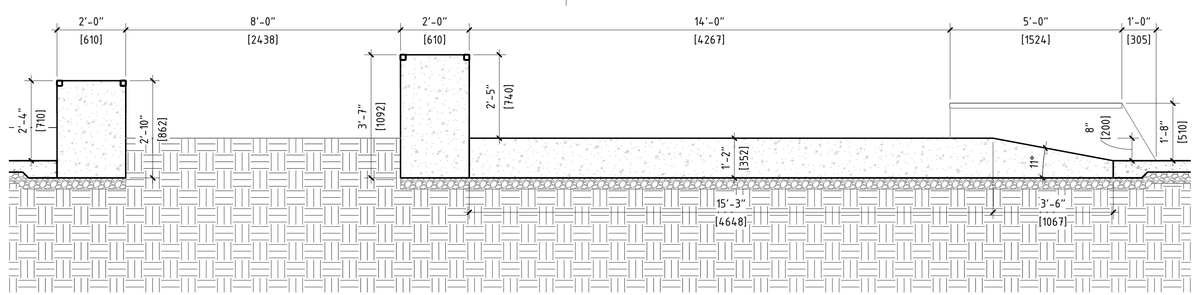
7 GRIND BOX SECTION

1 : 25



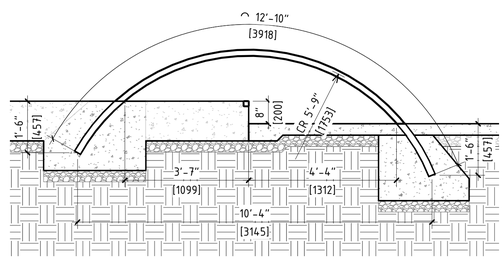
8 ROUND PIPE RAIL SECTION

1 : 25



9 PAGODA LEDGE / GRIND BOX SECTION

1 : 25



10 RAINBOW RAIL SECTION

1 : 25

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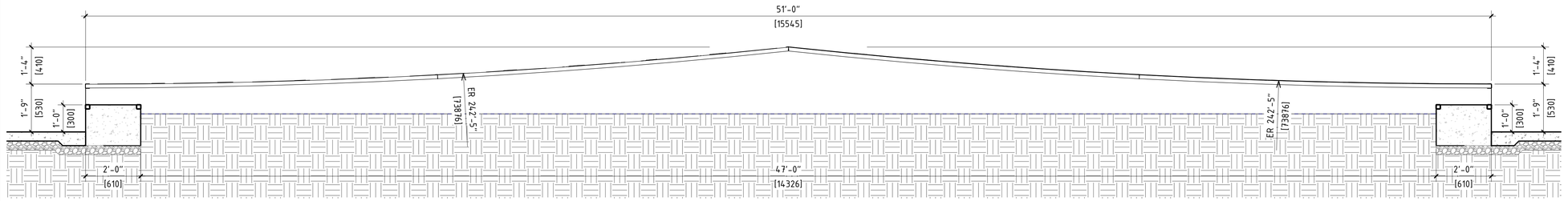
REV.#	DESCRIPTION	DATE
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4		
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SEAL:

DESIGNED BY: J.D FIELDS
DRAWN BY: M. ESPINOZA
APPROVED BY: A.HORDOS
DATE: 10/28/2024

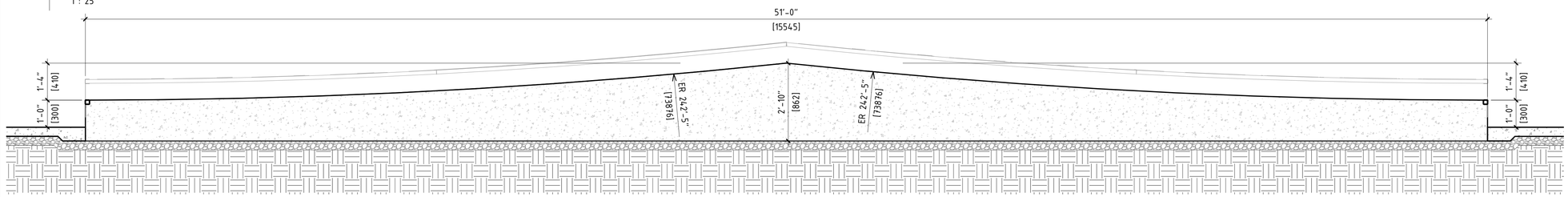
SHEET NAME:
SECTIONS I

PROJECT NUMBER: 08861
SHEET NUMBER: SP-17



11 PAGODA LEDGE SECTION

1 : 25



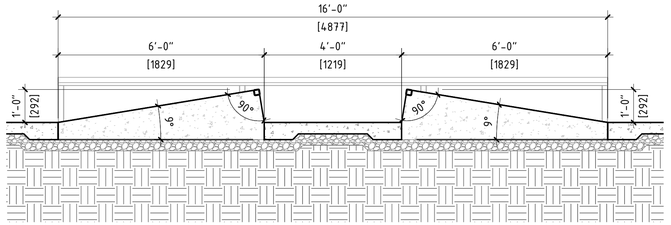
12 PAGODA LEDGE SECTION

1 : 25

SECTION MATERIALS LEGEND

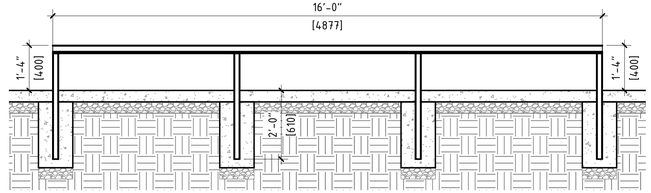
SYMBOL	DESCRIPTION
	CONCRETE
	GRANULAR BASE
	COMPACTED SUBGRADE

ER: EXTERNAL RADIO
CR: CENTRAL RADIO
IR: INTERNAL RADIO



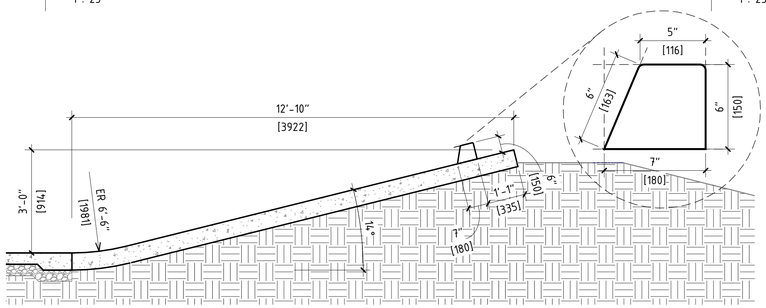
13 KICKER SECTION

1 : 25



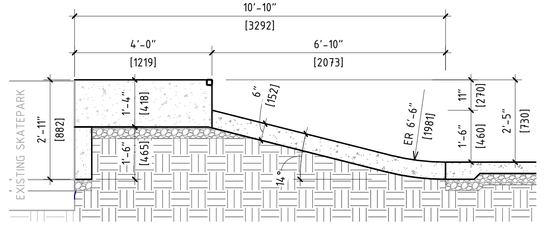
14 FLAT RAIL SECTION

1 : 25



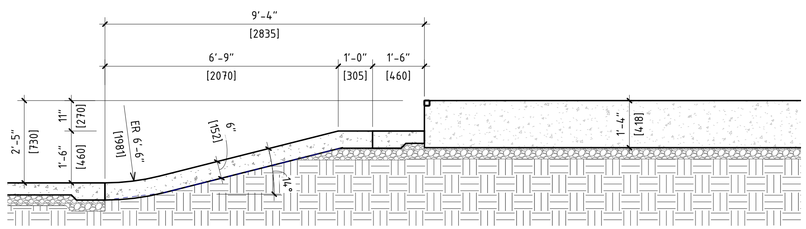
15 BANK RAMP 14° SECTION

1 : 25



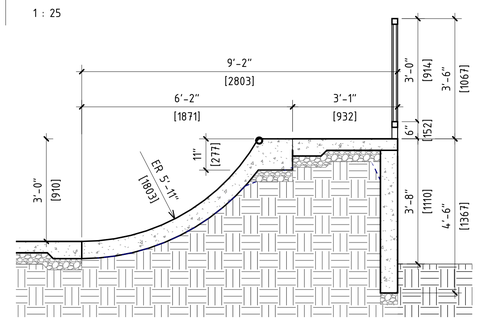
16 BANK RAMP 14° SECTION

1 : 25



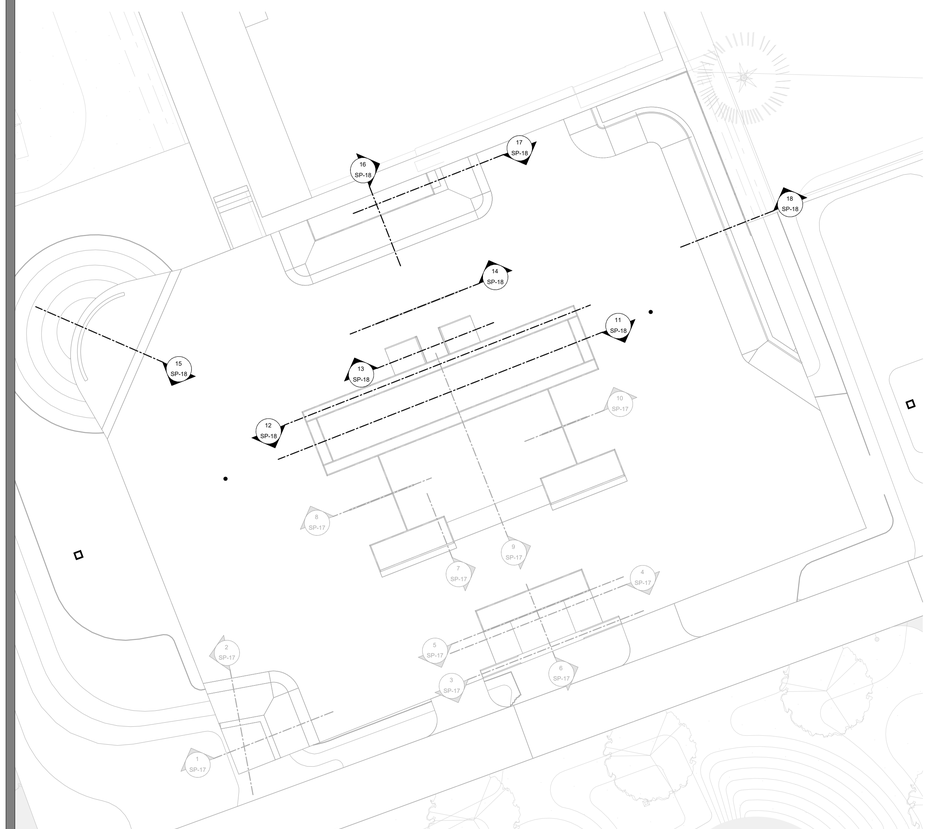
17 BANK RAMP 14° SECTION

1 : 25



18 QUARTER PIPE R1.80m SECTION

1 : 25



A SECTIONS II

1 : 150

0 1 2 3 4 5 10 20m

Scale 1: 150

N

0 1 2 3m

Scale 1: 25

N

CANADIAN RAMP COMPANY

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43 CURTIS STREET
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BONNERWORTH PARK SKATEPARK

CUSTOMER CONTACT INFORMATION: 500 GEORGE ST. N., PETERBOROUGH, ON K9H 3R9

SITE ADDRESS: 560 MCDONNEL ST, PETERBOROUGH, ON K9H 2X8

CUSTOMER: CITY OF PETERBOROUGH

SITE GEOLOCATION: 44°18'37"N, 78°20'16"W

REV.#	DESCRIPTION	DATE
1		
2		
3		
4		
5		
6		

SEAL:

DESIGNED BY: J.D FIELDS

DRAWN BY: M. ESPINOZA

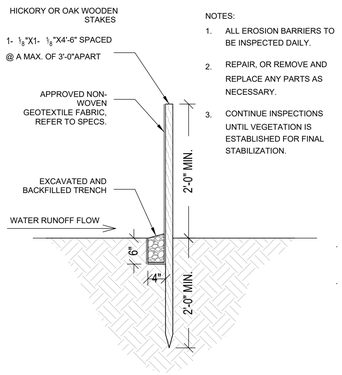
APPROVED BY: A.HORDOS

DATE: 10/28/2024

SHEET NAME: SECTIONS II

PROJECT NUMBER: 08861

SHEET NUMBER: SP-18

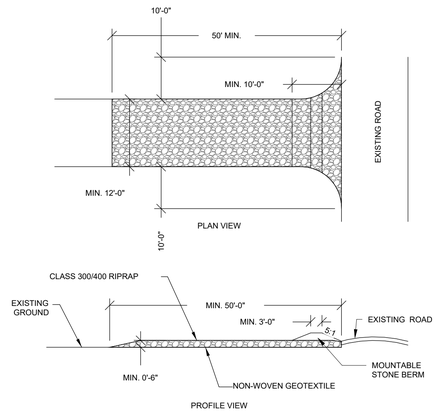


NOTES:

1. ALL EROSION BARRIERS TO BE INSPECTED DAILY.
2. REPAIR, OR REMOVE AND REPLACE ANY PARTS AS NECESSARY.
3. CONTINUE INSPECTIONS UNTIL VEGETATION IS ESTABLISHED FOR FINAL STABILIZATION.

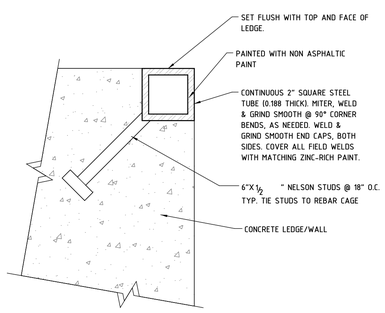
1 SILT FENCE

N.T.S



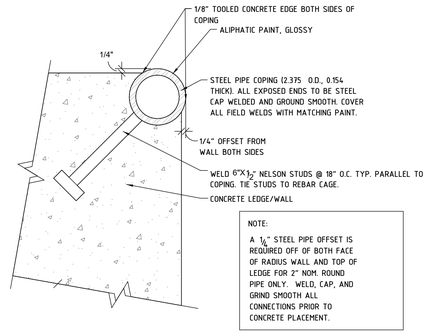
2 CONSTRUCTION ENTRANCE DETAIL

N.T.S



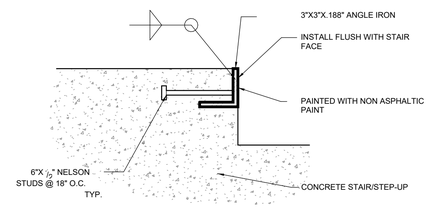
3 2" SQUARE STEEL PIPE EDGING

N.T.S



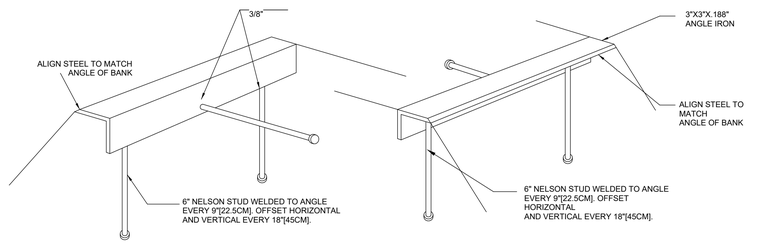
4 2" NOM. SCH 40 PIPE COPING

N.T.S



5 ANGLE IRON EDGING ON STAIRS

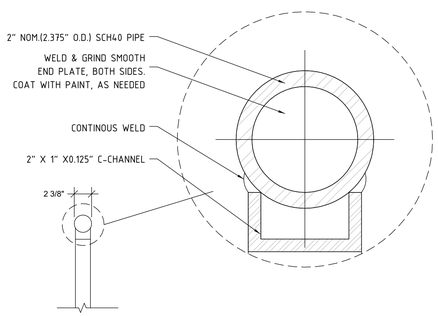
N.T.S



NOTE: CONTRACTOR MAY USE NELSON STUD WELDING SYSTEM

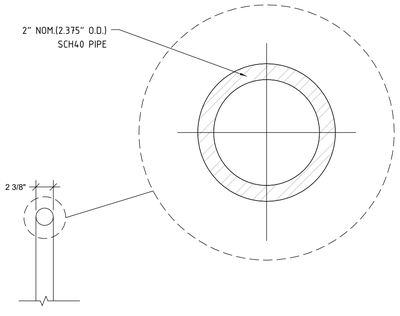
6 ANGLE IRON EDGING ON BANKS FABRICATION

N.T.S



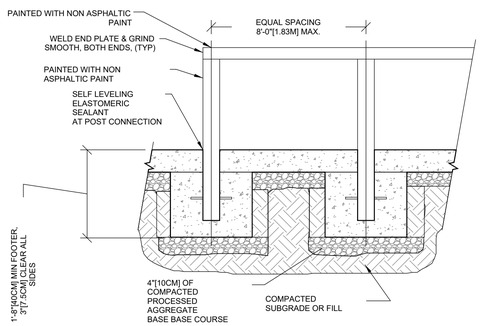
7 2" ROUND STEEL PIPE RAIL W/SUPPORT

N.T.S



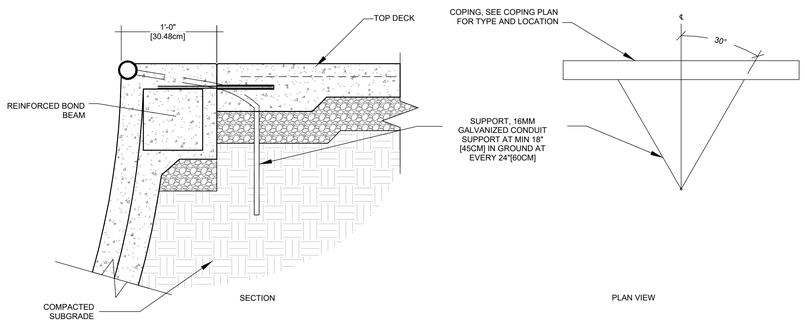
8 2" ROUND STEEL PIPE RAIL

N.T.S



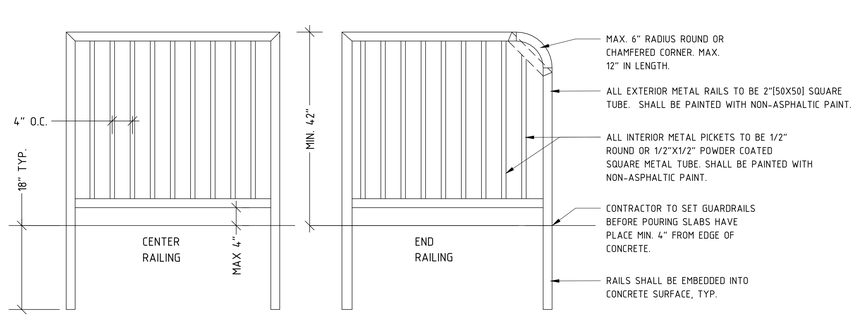
9 TYPICAL RAIL & FOOTING DETAIL

N.T.S



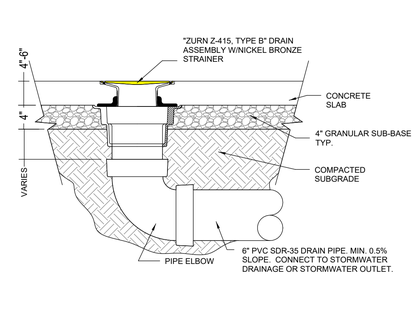
10 COPING CONSTRUCTION SUPPORT

N.T.S



11 TYP. GUARDRAIL DETAIL

N.T.S



12 TYP. SLAP DRAIN

N.T.S

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BONNERWORTH PARK SKATEPARK

CUSTOMER CONTACT INFORMATION: 500 GEORGE ST. N., PETERBOROUGH, ON K9H 3R9

SITE ADDRESS: 560 MCDONNEL ST., PETERBOROUGH, ON K9H 2X8

CUSTOMER: CITY OF PETERBOROUGH

SITE GEOLOCATION: 44°18'31"N 78°20'16"W

REV.#	DESCRIPTION	DATE
1		
2		
3		
4		
5		
6		

SEAL:

DESIGNED BY: J.D FIELDS

DRAWN BY: M. ESPINOZA

APPROVED BY: A.HORDOS

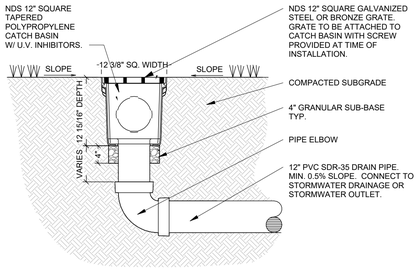
DATE: 10/28/2024

SHEET NAME:

DETAILS I

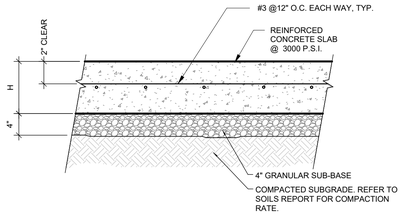
PROJECT NUMBER: 08861

SHEET NUMBER: SP-19



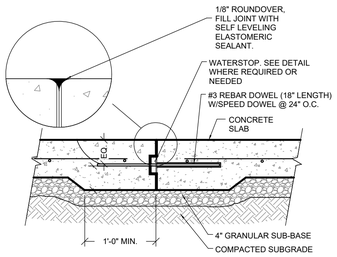
13 12 " SQUARE CATH BASIN

N.T.S



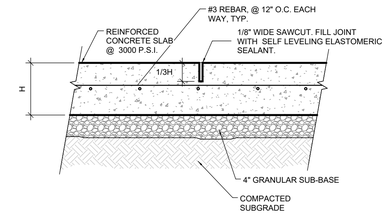
14 CONCRETE SLAB

N.T.S



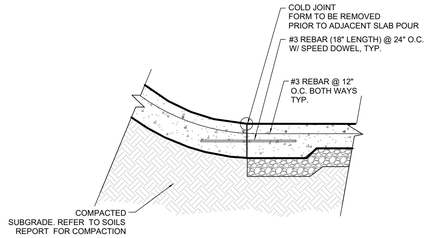
15 COLD JOINT

N.T.S



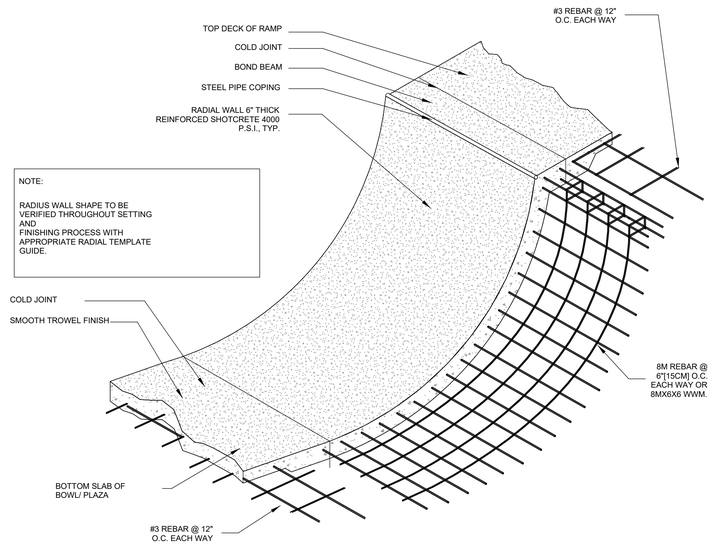
16 SAWCUT

N.T.S



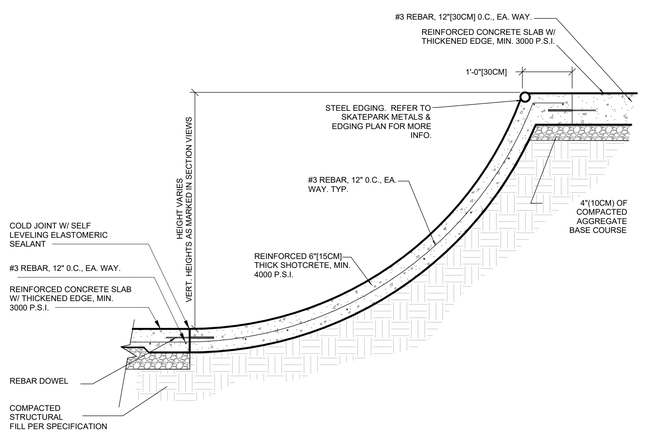
17 COLD JOINT/TRANSITION CONNECTION

N.T.S



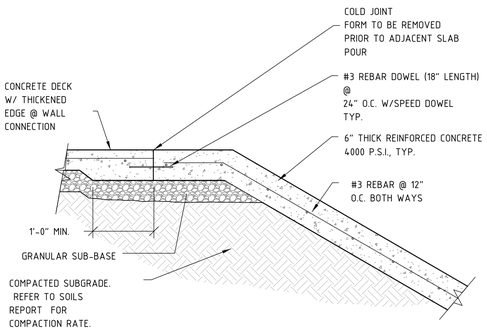
18 TYP. RADIAL WALL PROFILE

N.T.S



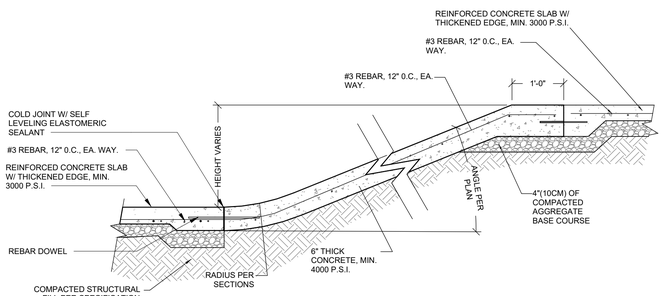
19 TYPICAL SHOTCRETE QUARTERPIPE

N.T.S



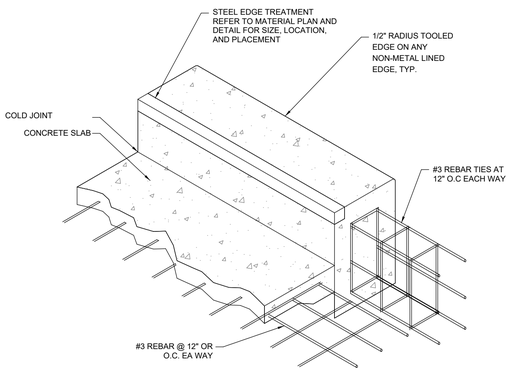
20 EMBANKMENT DETAIL

N.T.S



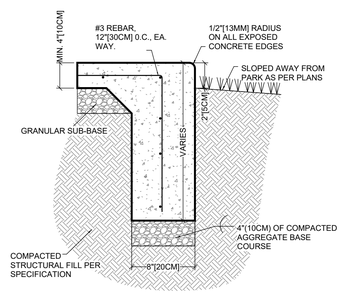
21 TYPICAL CONCRETE SKATEPARK BANK

N.T.S



22 TYP. GRIND LEDGE PROFILE

N.T.S



23 TYP. TURN DOWN WALL

N.T.S

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43 CURTIS STREET
INNERKIP, ONTARIO N0J 1M0
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BONNERWORTH PARK SKATEPARK

CUSTOMER CONTACT INFORMATION:
500 GEORGE ST. N., PETERBOROUGH, ON K9H 3R9

SITE ADDRESS:
560 MCDONNEL ST., PETERBOROUGH, ON K9H 2X8

CUSTOMER:
CITY OF PETERBOROUGH

SITE GEOLOCATION:
44°18'16.44"N 78°20'56.94"W

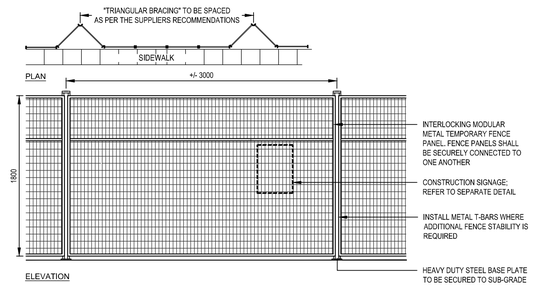
REV.#	DESCRIPTION	DATE
1		
2		
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6		

SEAL:

DESIGNED BY: J.D FIELDS
DRAWN BY: M. ESPINOZA
APPROVED BY: A.HORDOS
DATE: 10/28/2024

SHEET NAME:
DETAILS II

PROJECT NUMBER: 08861
SHEET NUMBER: SP-20



NOTES:

1. CONSULTANT TO REVIEW AND APPROVE PROPOSED TEMPORARY FENCE SYSTEM BEFORE INSTALLATION COMMENCES.
2. FENCING TO BE INSTALLED PRIOR TO START OF CONSTRUCTION AND MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
3. FENCING TO BE INSTALLED ALONG INSIDE EDGE OF PROPERTY LINE OR AS OTHERWISE DIRECTED BY CONSULTANT. **NO FENCING SHALL BE INSTALLED ON THE SIDEWALK.**
4. FENCING MAY REQUIRE RELOCATION FROM TIME TO TIME TO FACILITATE CONSTRUCTION AND CO-ORDINATION WITH ADJACENT PROPERTIES.
5. TEMPORARY FENCING TO BE INSTALLED BY THE SUPPLIER AS PER MANUFACTURER'S RECOMMENDATION AND INSTALLATION PROCEDURES. PROVIDE ALL NECESSARY HARDWARE AND ACCESSORIES FOR EXTRA SUPPORT AND STABILITY TO FENCE SYSTEM.
6. ATTACHMENT OF FENCE TO TREES IS NOT PERMITTED.
7. CONSTRUCTION SIGNAGE TO BE SUPPLIED BY THE CITY. CONTRACTOR TO SECURELY FASTEN SIGNAGE TO CONSTRUCTION HOARDING FENCE; REFER TO PLAN FOR CONSTRUCTION SIGN LOCATIONS.
8. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
9. REFER TO PLAN.

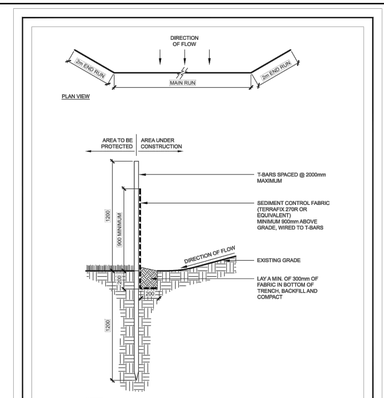
1 D-1 **CONSTRUCTION HOARDING FENCE** N.T.S.



NOTES:

1. SIGNAGE TO BE SECURELY FASTENED TO CONSTRUCTION HOARDING FENCE; REFER TO SEPARATE DETAIL. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL BY CONSULTANT.
2. ALL DIMENSIONS IN MILLIMETRES.
3. REFER TO PLANS FOR LOCATION.

2 D-1 **CONSTRUCTION SIGNAGE** N.T.S.



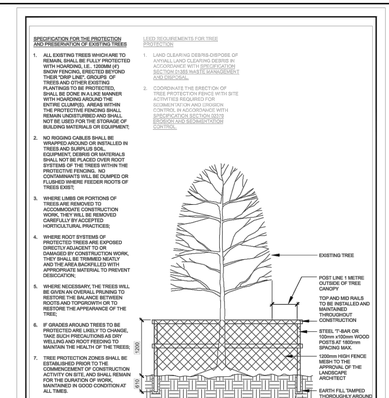
SILTATION CONTROL PERIMETER FENCING

peterborough — CITY OF PETERBOROUGH — **STANDARD DETAIL**

DATE: SEPTEMBER 2019 | DRAWING No.: **CPD-306**

SCALE: N.T.S. | REVISION No.:

3 D-1 **SEDIMENT CONTROL FENCE** N.T.S.



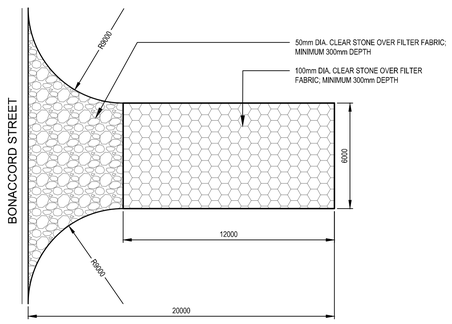
TREE PRESERVATION PROTECTION FENCE

peterborough — CITY OF PETERBOROUGH — **STANDARD DETAIL**

DATE: SEPTEMBER 2019 | DRAWING No.: **CPD-307**

SCALE: N.T.S. | REVISION No.:

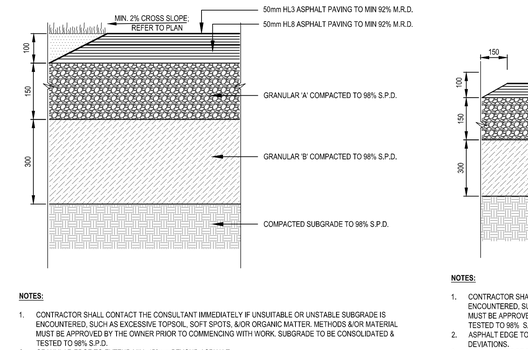
4 D-1 **TREE PRESERVATION FENCE** N.T.S.



NOTES:

1. CONTRACTOR SHALL CONTACT THE OWNER IMMEDIATELY IF UNSUITABLE OR UNSTABLE SUBGRADE IS ENCOUNTERED, SUCH AS EXCESSIVE TOPSOIL, SOFT SPOTS, &/OR ORGANIC MATTER, METHODS &/OR MATERIAL MUST BE APPROVED BY THE CONSULTANT PRIOR TO COMMENCING WITH WORK. SUBGRADE TO BE CONSOLIDATED & TESTED TO 98% S.P.D. MIN.
2. MUD MAT TO BE INSTALLED AT TEMPORARY CONSTRUCTION ACCESS LOCATION; REFER TO PLANS.
3. GRANULAR MATERIAL TO BE PERIODICALLY REPLACED AS IT BECOME CONTAMINATED.
4. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
5. REFER TO PLANS.

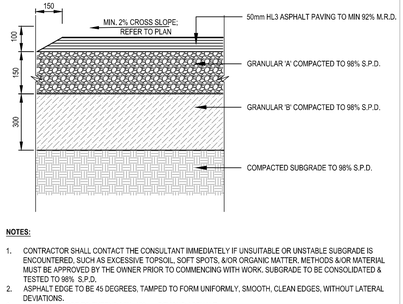
5 D-1 **MUD MAT** N.T.S.



NOTES:

1. CONTRACTOR SHALL CONTACT THE CONSULTANT IMMEDIATELY IF UNSUITABLE OR UNSTABLE SUBGRADE IS ENCOUNTERED, SUCH AS EXCESSIVE TOPSOIL, SOFT SPOTS, &/OR ORGANIC MATTER. METHODS &/OR MATERIAL MUST BE APPROVED BY THE OWNER PRIOR TO COMMENCING WITH WORK. SUBGRADE TO BE CONSOLIDATED & TESTED TO 98% S.P.D.
2. GRANULAR EDGE TO EXTEND MIN. 150mm BEYOND ASPHALT.
3. GRADE PARKING LOTS WITH A MIN 2.0% CROSS-SLOPE OR AS INDICATED ON PLANS. PONDING WATER ON ASPHALT PARKING LOTS WILL NOT BE ACCEPTED.
4. REFER TO SEPARATE DETAIL FOR CONCRETE BARRIER CURB.
5. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
6. REFER TO PLANS.

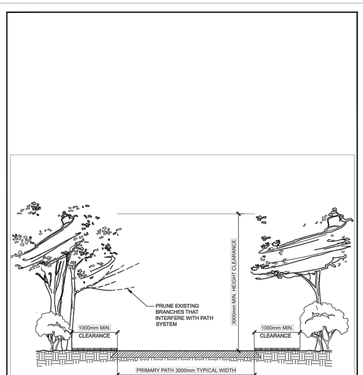
6 D-1 **ASPHALT PAVING - HEAVY DUTY** N.T.S.



NOTES:

1. CONTRACTOR SHALL CONTACT THE CONSULTANT IMMEDIATELY IF UNSUITABLE OR UNSTABLE SUBGRADE IS ENCOUNTERED, SUCH AS EXCESSIVE TOPSOIL, SOFT SPOTS, &/OR ORGANIC MATTER, METHODS &/OR MATERIAL MUST BE APPROVED BY THE OWNER PRIOR TO COMMENCING WITH WORK. SUBGRADE TO BE CONSOLIDATED & TESTED TO 98% S.P.D.
2. ASPHALT EDGE TO BE 45 DEGREES, TAMPED TO FORM UNIFORMLY, SMOOTH, CLEAN EDGES, WITHOUT LATERAL DEVIATIONS.
3. GRANULAR EDGE TO EXTEND MIN. 150mm BEYOND ASPHALT.
4. SOD TO MEET & MATCH EXISTING GRADES, WITH SMOOTH TRANSITIONS, WITH SMOOTH TRANSITIONS AT A MAXIMUM SLOPE OF 4:1.
5. ALL SEEDED &/OR SODDED AREAS SHALL MEET FLUSH WITH THE FINISH ELEVATION OF ASPHALT.
6. GRADE WALKWAY WITH A MIN 2.0% CROSS-SLOPE OR AS INDICATED ON PLANS. PONDING WATER ON ASPHALT WALKWAYS WILL NOT BE ACCEPTED.
7. WHERE ASPHALT PAVING PROVIDES AN ACCESSIBLE ROUTE, CROSS SLOPES SHALL NOT EXCEED 4%.
8. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
9. REFER TO PLANS.

7 D-1 **ASPHALT PAVING - STANDARD** N.T.S.

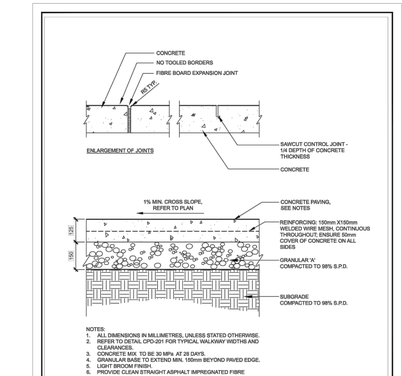


TYPICAL WALKING AND CYCLING TRAIL WIDTH AND CLEARANCE REQUIREMENTS

peterborough — CITY OF PETERBOROUGH — **STANDARD DETAIL**

DATE: SEPTEMBER 2019 | DRAWING No.: **CPD-201**

SCALE: N.T.S. | REVISION No.:



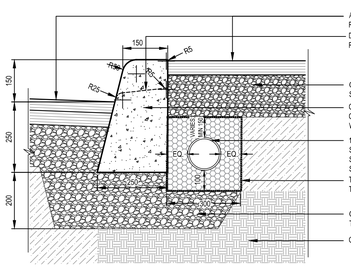
STANDARD DUTY CONCRETE PAVING

peterborough — CITY OF PETERBOROUGH — **STANDARD DETAIL**

DATE: SEPTEMBER 2019 | DRAWING No.: **CPD-204**

SCALE: N.T.S. | REVISION No.:

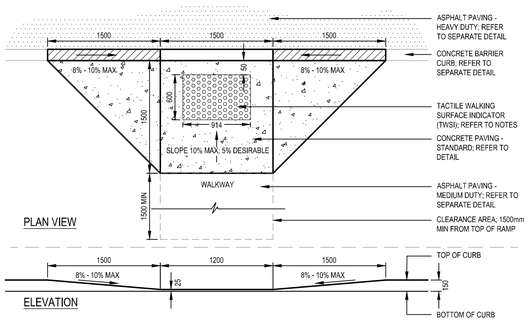
8 D-1 **CONCRETE PAVING - STANDARD** N.T.S.



NOTES:

1. CONTRACTOR SHALL CONTACT THE CONSULTANT IMMEDIATELY IF UNSUITABLE OR UNSTABLE SUBGRADE IS ENCOUNTERED, SUCH AS EXCESSIVE TOPSOIL, SOFT SPOTS, &/OR ORGANIC MATTER. METHODS &/OR MATERIAL MUST BE APPROVED BY THE OWNER PRIOR TO COMMENCING WITH WORK. SUBGRADE TO BE CONSOLIDATED & TESTED TO 98% S.P.D.
2. PROVIDE CONSULTANT WITH CONCRETE MIX DESIGN TWO (2) WEEKS PRIOR TO INSTALLATION. CONTRACTOR TO PROVIDE SAMPLES (TEST POURS) IN ACCORDANCE WITH SPECIFICATION.
3. EXPANSION JOINTS TO BE PLACED EVERY 6000mmO.C.; CONTROL JOINTS TO BE PLACED EVERY 1500mm O.C.; EXPANSION JOINTS TO BE SEALED WITH POLYURETHANE CAULK, COLOUR TO MATCH CONCRETE.
4. CONSULTANT TO REVIEW & APPROVE CURB LAYOUT & FORMS PRIOR TO PLACEMENT OF CONCRETE.
5. CONTRACTOR TO PROVIDE MOCK-UPS AS REQUESTED.
6. CONCRETE EDGE TO BE FORMED UNIFORMLY, SMOOTH WITH CLEAN EDGES, WITHOUT LATERAL DEVIATIONS.
7. REFER TO PLANS FOR SUB-DRAINAGE PIPE OUTLET.
8. ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.
9. REFER TO PLANS.

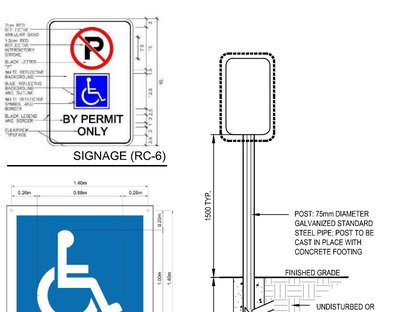
9 D-1 **CONCRETE BARRIER CURB** N.T.S.



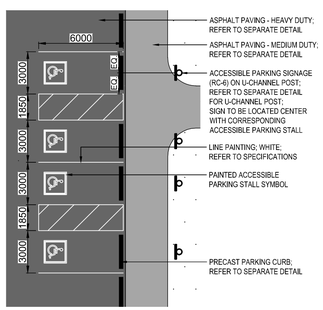
NOTES:

1. CONSULTANT TO REVIEW AND APPROVE CURB DEPRESSION LAYOUT PRIOR TO PLACEMENT OF CONCRETE.
2. CONCRETE EDGE TO BE FORMED UNIFORMLY, SMOOTH WITH CLEAN EDGES, WITHOUT LATERAL DEVIATIONS.
3. TACTILE WALKING SURFACE INDICATOR (TWSI) TO BE SUPPLIED BY KINESIK (OR APPROVED EQUAL), TILE SIZE TO BE 600mm (24") x 914mm (36"); COLOUR TO BE FEDERAL YELLOW; REFER TO MANUFACTURERS SPECIFICATIONS. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL BY CONSULTANT.
4. LENGTH OF PLATES MAY BE INCREASED TO SUIT CURB DEPRESSION WIDTH AS NEEDED.
5. ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.
6. REFER TO PLANS.

10 D-1 **PEDESTRAIN CURB DEPRESSION WITH TWSI** N.T.S.



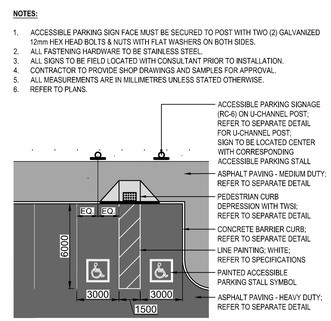
11 D-1 **ACCESSIBLE PARKING** N.T.S.



PRIMARY PARKING LAYOUT 1:200

NOTES:

1. ACCESSIBLE PARKING SIGN FACE MUST BE SECURED TO POST WITH TWO (2) GALVANIZED 12mm HEX HEAD BOLTS & NUTS WITH FLAT WASHERS ON BOTH SIDES.
2. ALL FASTENING HARDWARE TO BE STAINLESS STEEL.
3. ALL SIGNS TO BE FIELD LOCATED WITH CONSULTANT PRIOR TO INSTALLATION.
4. CONTRACTOR TO PROVIDE SHOP DRAWINGS AND SAMPLES FOR APPROVAL.
5. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
6. REFER TO PLANS.



SECONDARY PARKING LAYOUT 1:200

no.	revision	date	by
R4	ISSUED FOR CONSTRUCTION	2024-10-29	JS
R3	ISSUED FOR ADDENDUM #1	2024-10-03	JS
R2	ISSUED FOR TENDER	2024-09-27	JS
R1	ISSUED FOR REVIEW	2024-09-09	MN
R0	ISSUED FOR REVIEW	2021-08-13	JS

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ASSOCIATION OF LANDSCAPE ARCHITECTS ONTARIO — PAUL A. GARDNER — October 29, 2024 — MEMBER

project number
2024-021

landscape planning
LANDSCAPE ARCHITECTS
Suite 207, 95 Mural Street, Richmond Hill, Ontario L4B 3G2,
Tel. 905.669.6838, www.landscapeplan.ca

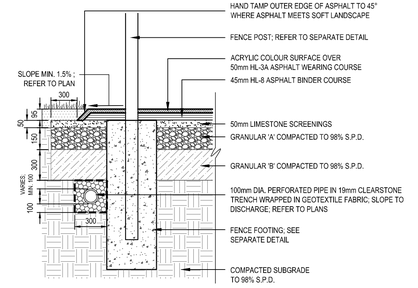
project title
BONNERWORTH PARK REDEVELOPMENT
560 MCDONNEL STREET, PETERBOROUGH, ONTARIO

client
CITY OF PETERBOROUGH

tender number
ITT-67-24

drawing title
DETAILS

drawn by	reviewed by	drawing number:
JS	PG	D-1
date: OCT. 2024	scale: N.T.S.	

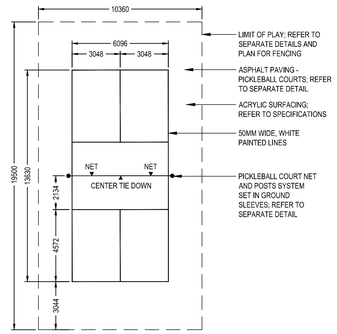


NOTES:

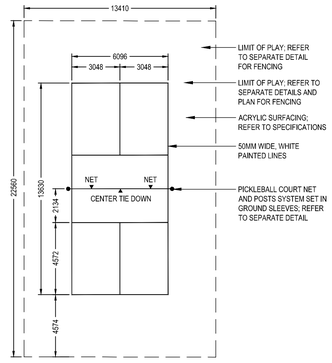
1. SOD TO MEET & MATCH EXISTING GRADES. WITH SMOOTH TRANSITIONS AT A MAXIMUM SLOPE OF 4:1.
2. ALL SODDED AREAS SHALL BE 25mm BELOW THE FINISH ELEVATION OF ASPHALT.
3. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
4. REFER TO PLANS.
5. REFER TO SPECIFICATIONS.

1 D-2 ASPHALT PAVING - PICKLEBALL COURTS

N.T.S.



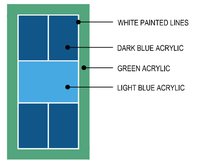
STANDARD PLAY COURT



ACCESSIBLE PLAY COURT

2 D-2 PICKLEBALL COURT LAYOUT & ACRYLIC SURFACING

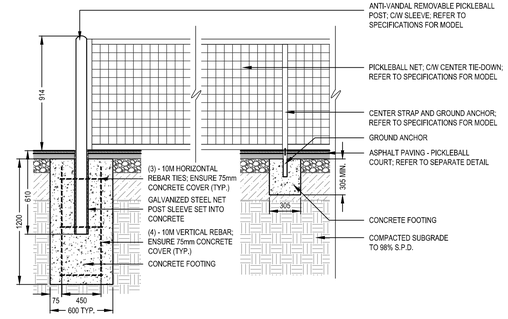
N.T.S.



ACRYLIC COLOUR LAYOUT

NOTES:

1. PICKLEBALL COURT LAYOUT TO BE IN ACCORDANCE WITH GLOBAL PICKLEBALL FEDERATION 2024 OFFICIAL RULEBOOK.
2. COURT LINES TO BE WHITE IN CONTRAST WITH COURT SURFACE.
3. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
4. REFER TO PLANS.
5. DETAIL TO BE READ IN CONJUNCTION WITH SPECIFICATIONS.

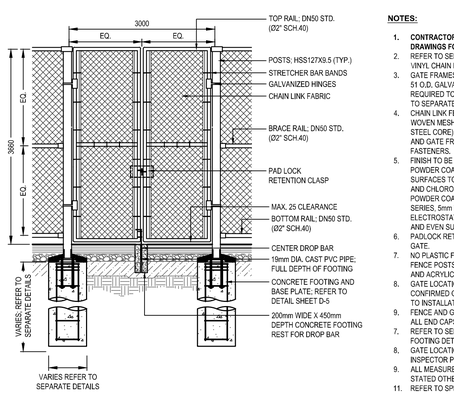


NOTES:

1. REFER TO SPECIFICATIONS FOR PICKLEBALL NET AND POSTS SYSTEM MANUFACTURER, MODEL AND COLOUR.
2. REFER TO MANUFACTURERS SPECIFICATIONS FOR INSTALLATION.
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL.
4. POURED CONCRETE FOOTINGS TO BE 32MPa, 5-8% % AIR ENTRAINED.
5. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
6. REFER TO PLANS FOR LOCATIONS.

3 D-2 PICKLEBALL COURT NET AND POSTS SYSTEM

N.T.S.

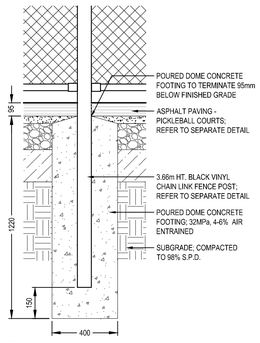


NOTES:

1. **CONTRACTOR TO PROVIDE ENGINEERED SHOP DRAWINGS FOR APPROVAL.**
2. REFER TO SEPARATE DETAILS FOR 3.66m HT. BLACK VINYL CHAIN LINK FENCE AND ACOUSTIC SCREENS.
3. GATE FRAMES SHALL BE CONSTRUCTED OF MINIMUM 51 O.D. GALVANIZED STEEL PIPE OR GREATER AS REQUIRED TO SUPPORT ACOUSTIC SCREEN; REFER TO SEPARATE DETAIL FOR ACOUSTIC SCREEN.
4. CHAIN LINK FENCE TO BE BLACK VINYL COATED, 38 WOVEN MESH, 9 GAUGE (11 GAUGE GALVANIZED STEEL CORE); FASTENED TO LINE POSTS, ALL RAILS AND GATE FRAMES WITH 3.5 (9 GAUGE) KNUCKLED FASTENERS.
5. FINISH TO BE BLACK GLASS ENAMEL POLYESTERS POWDER COATING. PRIOR TO POWDER COATING, ALL SURFACES TO BE TREATED WITH PARKER BONDERITE AND CHLOROMETHANE OR APPROVED EQUALS; POWDER COATING MUST BE A POLYESTER 2000 SERIES, 5mm THICKNESS, APPLIED ELECTROSTATICALLY AND OVEN CURED TO A SMOOTH AND EVEN SURFACE.
6. PADLOCK RETENTION CLASP TO BE INSTALLED FOR GATE.
7. NO PLASTIC FITTINGS ARE TO BE USED, INSTALL FENCE POSTS PRIOR TO PLACING ASPHALT PAVING AND ACRYLIC SURFACING.
8. GATE LOCATIONS INDICATED ON DRAWINGS SHALL BE CONFIRMED ON SITE BY THE SITE INSPECTOR PRIOR TO INSTALLATION.
9. FENCE AND GATE TO BE ALL WELDED CONSTRUCTION, ALL END CAPS MUST BE WELDED IN PLACE.
7. REFER TO SEPARATE DETAIL FOR POURED CONCRETE FOOTING DETAILS.
8. GATE LOCATIONS TO BE CONFIRMED ON SITE BY SITE INSPECTOR PRIOR TO INSTALLATION.
9. ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.
11. REFER TO SPECIFICATIONS.

4 D-2 3.66m HT. BLACK VINYL CHAIN LINK FENCE DOUBLE GATE

N.T.S.

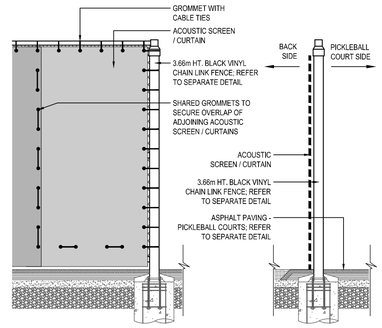


NOTES:

1. CONTRACTOR TO PROVIDE SHOP DRAWINGS.
2. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
3. REFER TO PLANS.

3.66m HT. CHAIN LINK FENCE FOOTING TYPE 'C'

N.T.S.



NOTES:

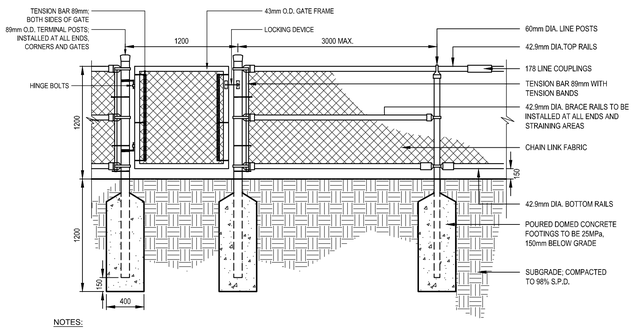
1. REFER TO SPECIFICATIONS FOR ACOUSTIC SCREEN MANUFACTURER, MODEL, AND COLOUR.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS.
3. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
4. REFER TO PLANS.

INSTALLATION INSTRUCTIONS:

1. ACOUSTIC SCREENS TO BE SECURELY FASTENED TO FENCE IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
2. ACOUSTIC SCREENS TO BE FASTENED TO THE BACKSIDE OF FENCE; ACOUSTIC SCREENS TO BE FIELD LOCATED WITH SITE INSPECTOR PRIOR TO INSTALLATION.
3. ACOUSTIC CURTAINS SHALL FIT FULL LENGTH OF SUPPORTING FENCE; REFER TO SEPARATE DETAIL FOR FENCE.
4. ACOUSTIC CURTAIN TO BE SECURELY FASTENED TO TOP BAR WITH CABLE TIES. CURTAIN IS TO HANG LEVEL BELOW THE TOP RAILING.
5. ADJOINING CURTAINS ARE TO OVERLAP TO ENSURE NO GAPS; ADJOINING CURTAINS SHARE GROMMETS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
6. ALL CABLE TIES TO BE TRIMMED TO REMOVE ACCESS.
7. ALL GROMMETS TO BE SEALED WITH GROMMET PLUGS.

5 D-2 ACOUSTIC SCREEN

N.T.S.

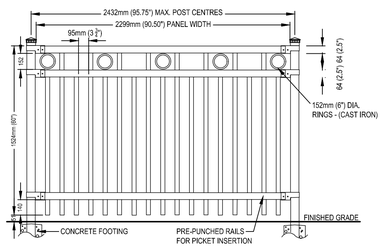


NOTES:

1. ALL MATERIALS, COMPONENTS AND WORKMANSHIP TO CONFORM TO BUILDING CODE AND LOCAL BY-LAWS.
2. ALL FENCE POSTS AND RAILS TO BE BLACK VINYL SCHEDULE 40 PIPE.
3. ALL RAILS TO BE 'FISH MOUTH' CUT, CRIMPING WILL NOT BE ACCEPTED.
4. FENCE AND GATE TO BE ALL WELDED CONSTRUCTION. ALL END CAPS MUST BE WELDED IN PLACE.
5. CHAIN LINK FENCE TO BE 38x38 WOVEN MESH, 9 GAUGE.
6. SECURE CHAIN LINK FABRIC TO TERMINAL POSTS WITH STRETCHER BARS AND BAR BANDS AT 300 O.C. SECURE FABRIC TO LINE POSTS, ALL RAILS, AND GATES USING 3.5mm KNUCKLED FASTENER AT 300 O.C.
7. GATE LOCATIONS INDICATED ON DRAWINGS SHALL BE CONFIRMED ON SITE BY THE SITE INSPECTOR.
8. ALL MEASUREMENTS IN MILLIMETERS UNLESS STATED OTHERWISE.
9. REFER TO PLANS.

6 D-2 1.2m HT. BLACK VINYL CHAIN LINK FENCE

N.T.S.



SPECIFICATIONS:

POSTS, RAILS, AND PICKETS: COLD FORMED STEEL TUBING, INTERIOR AND EXTERIOR GALVALUME(TM) COATING. CHROMATE CONVERSION COATING ELECTROSTATICALLY APPLIED, THERMALLY BONDED POLYESTER POWER COATING - MINIMUM FILM THICKNESS 2.5mils

POSTS: 76mm x 76mm (3" x 3") 14 GUAGE, SS40 OR SCH 40

POST FLANGS: 203mm x 203mm (8" x 8") x 13mm (½") OR 254mm x 254mm (10" x 10") x 13mm (½")

POST CAP: PYRAMID
RAILS: 38mm x 64mm (1-½" x 1-½") , 16 GAUGE

PICKETS: 19mm x 19mm (¾" x 1-½"), 16 GAUGE
FITTINGS: 12 GAUGE STAMP FORGED, FACTORY FINISH AS ABOVE

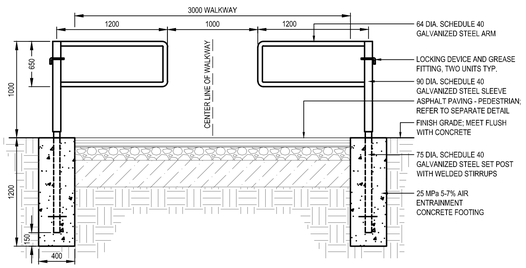
WELDS: STAINLESS STEEL
COLOUR: BLACK

NOTES:

1. REFER TO SPECIFICATIONS FOR DECORATIVE METAL FENCE MANUFACTURER, MODEL, AND COLOUR.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS.
3. DECORATIVE METAL FENCE TO BE FIELD LOCATED WITH SITE INSPECTOR PRIOR TO INSTALLATION.
4. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
5. REFER TO PLANS.

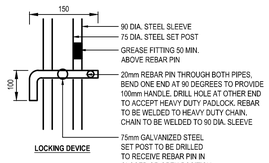
7 D-2 DECORATIVE METAL FENCE

N.T.S.



NOTES:

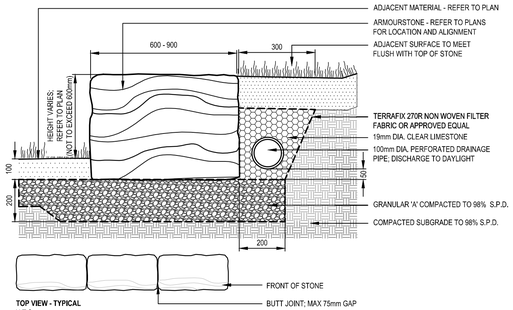
1. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL.
2. POWDER TOP COAT COLOUR TO BE GUNMETAL GREY OR APPROVED EQUAL.
3. ALL PIPE AND FASTENING HARDWARE TO BE HOT DIPPED GALVANIZED.
4. CONTRACTOR TO PROVIDE HEAVY DUTY PADLOCK.
5. ALL SITE FURNISHINGS TO BE FIELD LOCATED AND APPROVED BY CONSULTANT PRIOR TO INSTALLATION.
6. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
7. REFER TO PLANS FOR LOCATION.



LOCKING DEVICE

8 D-2 SWING GATES

N.T.S.



TOP VIEW - TYPICAL
N.T.S.

NOTES:

1. CONTRACTOR SHALL CONTACT THE OWNER IMMEDIATELY IF UNSUITABLE OR UNSTABLE SUBGRADE IS ENCOUNTERED, SUCH AS EXCESSIVE TOPSOIL, SOFT SPOTS, &/OR ORGANIC MATTER. SUBGRADE TO BE CONSOLIDATED & TESTED TO 98% S.P.D. MIN; ENGINEERED FILL TO BE CONSOLIDATED & TESTED TO 98&% S.P.D.
2. UTILIZE ARMOURSTONES EXISTING ON SITE WHERE POSSIBLE WHILE MEETING DESIGN STANDARDS.
3. ACCEPTABLE STONE SIZES SHALL VARY FROM MIN 700-1000mm WIDE x 600mm HIGH x 1000mm LONG.
4. SET BOTTOM OF BASE ARMOURSTONE MIN 100mm BELOW FINISHED GRADE.
5. ARMOURSTONES SHALL ABUT ONE ANOTHER TIGHTLY, MAXIMUM TOLERANCE FOR GAPS BETWEEN STONES SHALL BE 75mm.
6. WALL TOP TO BE CONSTANT; STEP AS REQUIRED.
7. CONSULTANT TO REVIEW & APPROVE WALL LAYOUT PRIOR TO PLACEMENT OF WALL.
8. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
9. REFER TO PLANS.

9 D-2 ARMOURSTONE EDGE

N.T.S.

no.	revision	date	by
R4	ISSUED FOR CONSTRUCTION	2024-10-29	JS
R3	ISSUED FOR ADDENDUM #1	2024-10-03	JS
R2	ISSUED FOR TENDER	2024-09-27	JS
R1	ISSUED FOR REVIEW	2024-09-09	MN
R0	ISSUED FOR REVIEW	2021-08-13	JS

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ASSOCIATION OF LANDSCAPE ARCHITECTS — PAUL A. GARDNER — OALA — October 29, 2024 — MEMBER

project number
2024-021

landscape planning
LANDSCAPE ARCHITECTS
Suite 207, 95 Mural Street, Richmond Hill, Ontario L4B 3G2,
Tel. 905.669.6838, www.landscapeplan.ca

project title
BONNERWORTH PARK REDEVELOPMENT

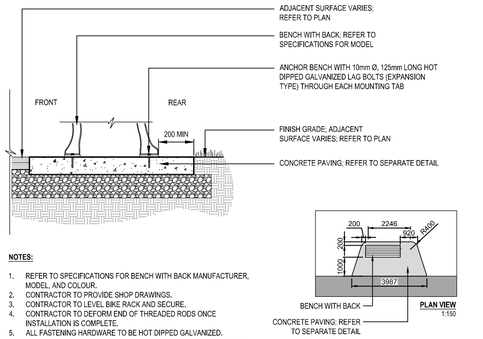
560 MCDONNEL STREET, PETERBOROUGH, ONTARIO

client
CITY OF PETERBOROUGH

tender number
ITT-67-24

drawing title
DETAILS

drawn by	reviewed by	drawing number:
JS	PG	D-2
date	scale	
OCT. 2024	N.T.S.	



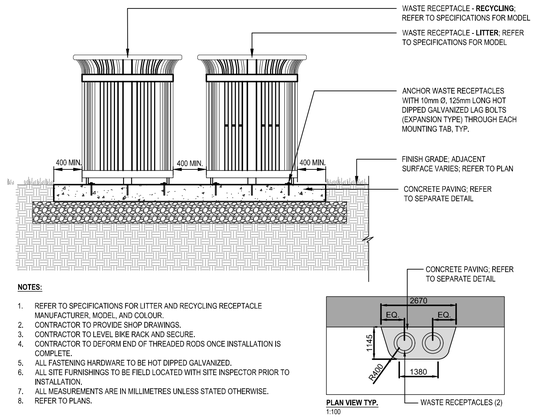
NOTES:

1. REFER TO SPECIFICATIONS FOR BENCH WITH BACK MANUFACTURER, MODEL, AND COLOUR.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS.
3. CONTRACTOR TO LEVEL BIKE RACK AND SECURE.
4. CONTRACTOR TO DEFORM END OF THREADED RODS ONCE INSTALLATION IS COMPLETE.
5. ALL FASTENING HARDWARE TO BE HOT DIPPED GALVANIZED.
6. ALL SITE FURNISHINGS TO BE FIELD LOCATED WITH SITE INSPECTOR PRIOR TO INSTALLATION.
7. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
8. REFER TO PLANS.

1 D-3

BENCH WITH BACK

N.T.S.



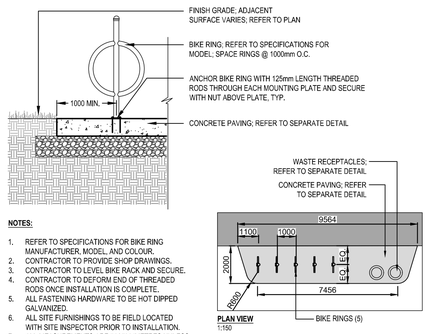
NOTES:

1. REFER TO SPECIFICATIONS FOR LITTER AND RECYCLING RECEPTACLE MANUFACTURER, MODEL, AND COLOUR.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS.
3. CONTRACTOR TO LEVEL BIKE RACK AND SECURE.
4. CONTRACTOR TO DEFORM END OF THREADED RODS ONCE INSTALLATION IS COMPLETE.
5. ALL FASTENING HARDWARE TO BE HOT DIPPED GALVANIZED.
6. ALL SITE FURNISHINGS TO BE FIELD LOCATED WITH SITE INSPECTOR PRIOR TO INSTALLATION.
7. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
8. REFER TO PLANS.

2 D-3

WASTE RECEPTACLE

N.T.S.



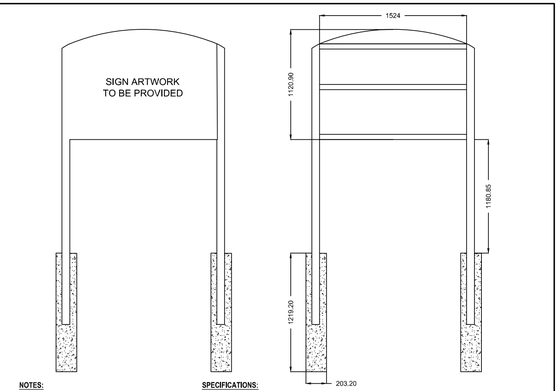
NOTES:

1. REFER TO SPECIFICATIONS FOR BIKE RING MANUFACTURER, MODEL, AND COLOUR.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS.
3. CONTRACTOR TO LEVEL BIKE RACK AND SECURE.
4. CONTRACTOR TO DEFORM END OF THREADED RODS ONCE INSTALLATION IS COMPLETE.
5. ALL FASTENING HARDWARE TO BE HOT DIPPED GALVANIZED.
6. ALL SITE FURNISHINGS TO BE FIELD LOCATED WITH SITE INSPECTOR PRIOR TO INSTALLATION.
7. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
8. REFER TO PLANS.

3 D-3

BIKE RING

N.T.S.



NOTES:

1. **CONTRACTOR TO PROVIDE ENGINEERED SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.**
2. CONCRETE FOOTING 28Mpa @ 28 DAYS.
3. ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.
4. REFER TO PLANS.

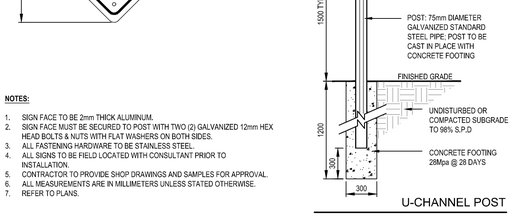
SPECIFICATIONS:

1. ALUPANEL ¼" DIGITALLY PRINTED AND LAMINATED. 44"X60" SINGLE SIDED WITH A CONTOURED TOP. SUBMERSION MOUNT.
2. 3" X 3" ALUMINUM POST 12' LONG, TOPS CUT TO MATCH CONTOUR OF SIGN. WELDED AND POWDERCOATED WHITE. 2 QTY.
3. 2" X 2" ALUMINUM CROSS MEMBERS 60" FOR STRENGTH AND MOUNTING SIGN. 3 QTY.
4. POSTS TO BE CAPPED.
5. CONCRETE SONO TUBES 8"X4", 2 WTY. SLOPE TOP OF SONOTUBE FOOTING AWAY FROM POST FOR DRAINAGE TYP.

4 D-3

PARK NAME SIGN

N.T.S.



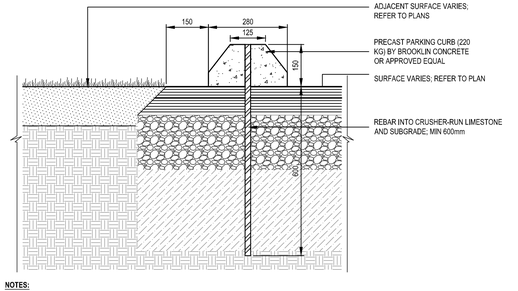
NOTES:

1. SIGN FACE TO BE 2mm THICK ALUMINUM.
2. SIGN FACE MUST BE SECURED TO POST WITH TWO (2) GALVANIZED 12mm HEX HEAD BOLTS & NUTS WITH FLAT WASHERS ON BOTH SIDES.
3. ALL FASTENING HARDWARE TO BE STAINLESS STEEL.
4. ALL SIGNS TO BE FIELD LOCATED WITH CONSULTANT PRIOR TO INSTALLATION.
5. CONTRACTOR TO PROVIDE SHOP DRAWINGS AND SAMPLES FOR APPROVAL.
6. ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.
7. REFER TO PLANS.

5 D-3

'DEAD END' SIGN

N.T.S.



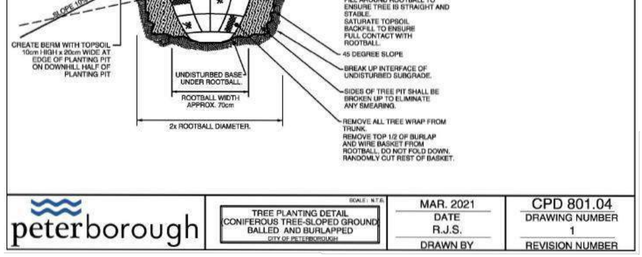
NOTES:

1. CONTRACTOR SHALL CONTACT THE OWNER IMMEDIATELY IF UNSUITABLE OR UNSTABLE SUBGRADE IS ENCOUNTERED, SUCH AS EXCESSIVE TOPSOIL, SOFT SPOTS, &/OR ORGANIC MATTER. METHODS &/OR MATERIAL MUST BE APPROVED BY THE OWNER PRIOR TO COMMENCING WITH WORK. SUBGRADE TO BE CONSOLIDATED & TESTED TO 98% S.P.D. MIN.; ENGINEERED FILL TO BE CONSOLIDATED & TESTED TO 100% S.P.D.
2. REBAR TO BE DRIVEN INTO SUB-BASE; MIN 600mm. TWO (2) REBAR PER PRECAST PARKING CURB.
3. ALL MEASUREMENTS ARE IN MILLIMETERS UNLESS STATED OTHERWISE.
4. REFER TO PLANS.

6 D-3

PRECAST PARKING CURB

N.T.S.



no.	revision	date	by
R4	ISSUED FOR CONSTRUCTION	2024-10-29	JS
R3	ISSUED FOR ADDENDUM #1	2024-10-03	JS
R2	ISSUED FOR TENDER	2024-09-27	JS
R1	ISSUED FOR REVIEW	2024-09-09	MN
R0	ISSUED FOR REVIEW	2021-08-13	JS

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ASSOCIATION OF LANDSCAPE ARCHITECTS ONTARIO — PAUL A. GARDNER — OALA — October 29, 2024 — MEMBER

project number
2024-021

landscape planning
LANDSCAPE ARCHITECTS
Suite 207, 95 Mural Street, Richmond Hill, Ontario L4B 3G2,
Tel. 905.669.6838, www.landscapeplan.ca

project title
BONNERWORTH PARK REDEVELOPMENT

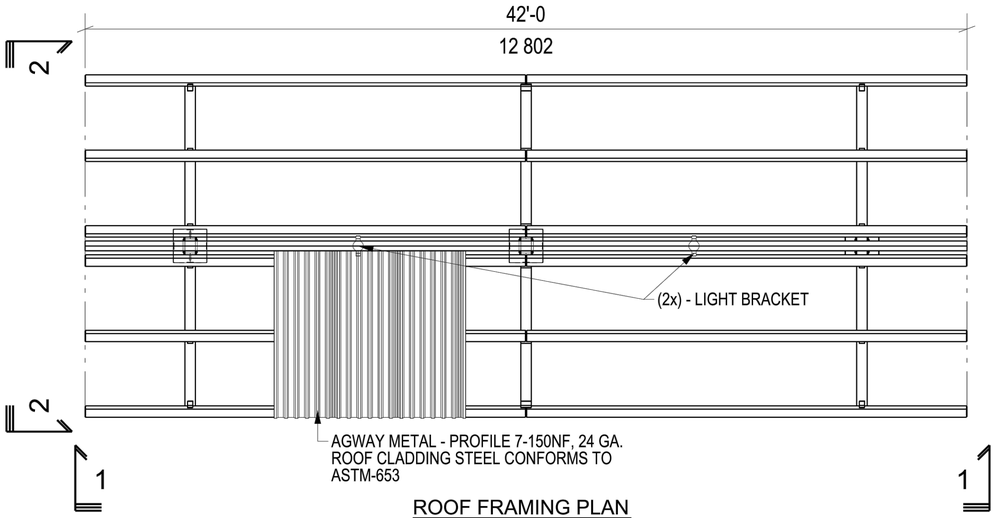
560 MCDONNEL STREET,
PETERBOROUGH, ONTARIO

client
CITY OF PETERBOROUGH

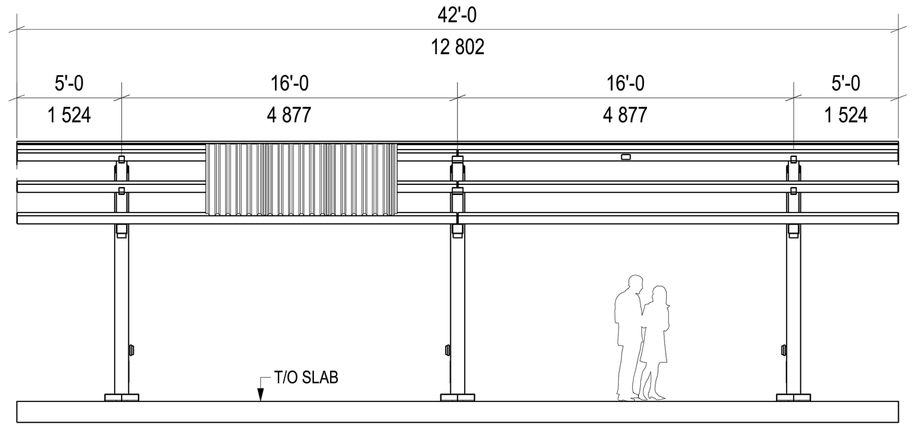
tender number
ITT-67-24

drawing title
DETAILS

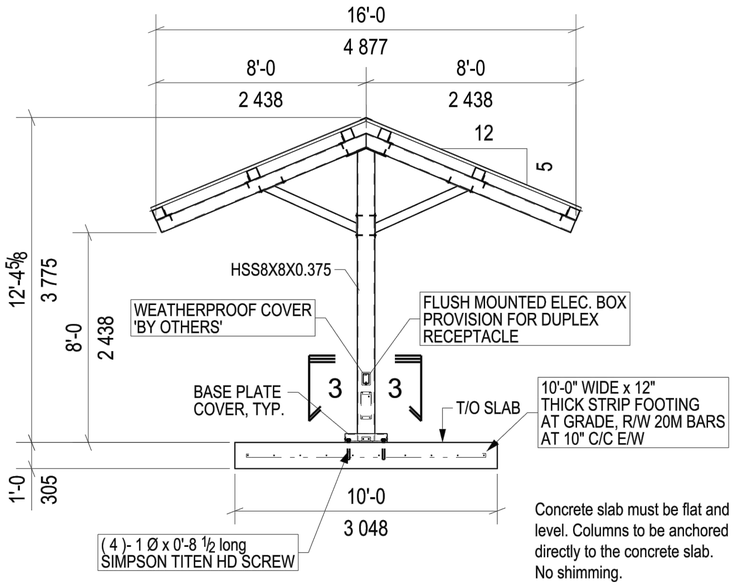
drawn by	reviewed by	drawing number:
JS	PG	D-3
date: OCT. 2024	scale: N.T.S.	



ROOF FRAMING PLAN
N.T.S.

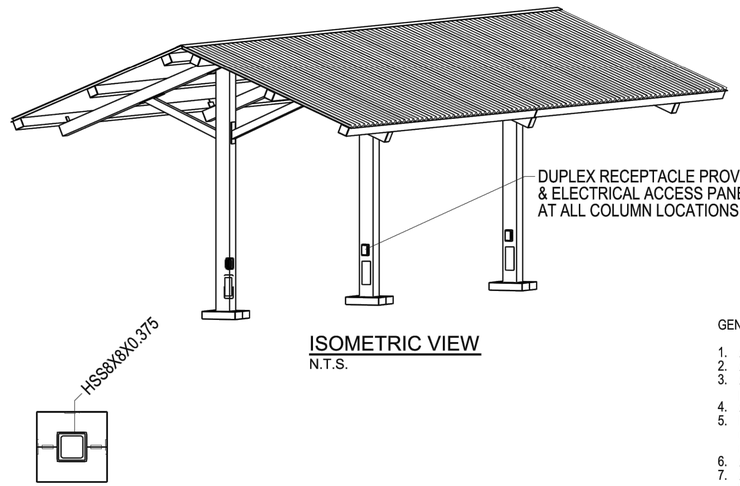


1 - 1 / GA-01 SECTION
N.T.S.



Concrete slab must be flat and level. Columns to be anchored directly to the concrete slab. No shimming.

2 - 2 / GA-01 SECTION
N.T.S.



ISOMETRIC VIEW
N.T.S.

3 - 3 / GA-01 SECTION
N.T.S.

GENERAL NOTES:

1. All concrete to have a minimum 28 day strength of 35 MPa.
2. All reinforcing steel to have a minimum yield strength of 400 Mpa (60ksi) - deformed bars.
3. All excavations and reinforcing steel should be inspected by the engineer prior to the placement of concrete.
4. All work is carried out in accordance with the latest version of the Ontario Building Code 2012.
5. Excavation for the concrete piers to be completed using vertical auguring machine taking care not to disturb the adjacent soil. If excavation is completed using an excavator to create a larger hole than the granular material with maximum 12" lifts compacted to 98% SPMDD.
6. All structural steel frame components used shall be a minimum grade 44W Steel.
7. All structural bolt fasteners shall be ASTM F3125 grade A325. Other hardware may include box bolts, turnbuckles, shackles, cable systems – all to be specified at time of design.
8. Concrete anchors to be cast in place or equivalent as specified by the engineer.
9. Metal Roofing – Andex/ Agway Profile 7-150NF, 24 gauge conforming to ASTM A653 / A653M or A792/A792M.
10. Powder Coat Finish – shall meet all current standards for adhesion, hardness, impact, flexibility and salt spray. Includes blasted surface preparation, zinc rich primer and powder coat finish.

NOTES:

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2. **CONTRACTOR TO PROVIDE ENGINEERED SHOP DRAWINGS FOR APPROVAL.**
3. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
4. REFER TO PLANS.

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ASSOCIATION OF ONTARIO LANDSCAPE ARCHITECTS — PAUL A. GARDNER — OALA — October 29, 2024 — MEMBER

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client
CITY OF PETERBOROUGH

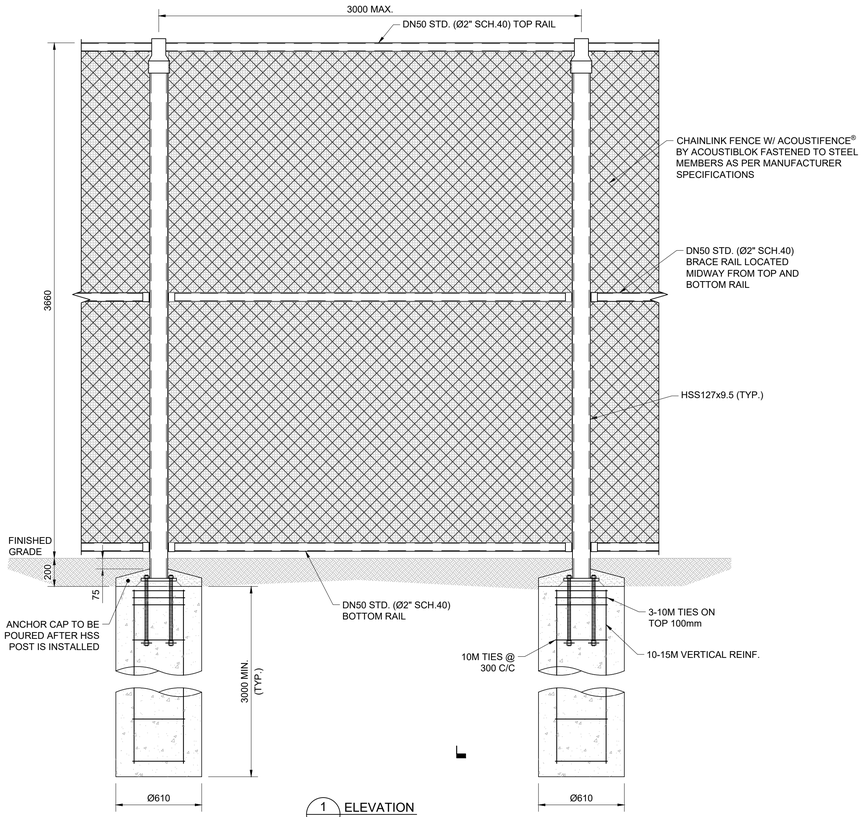
tender number
ITT-67-24

drawing title
DETAILS (SHADE STRUCTURE)

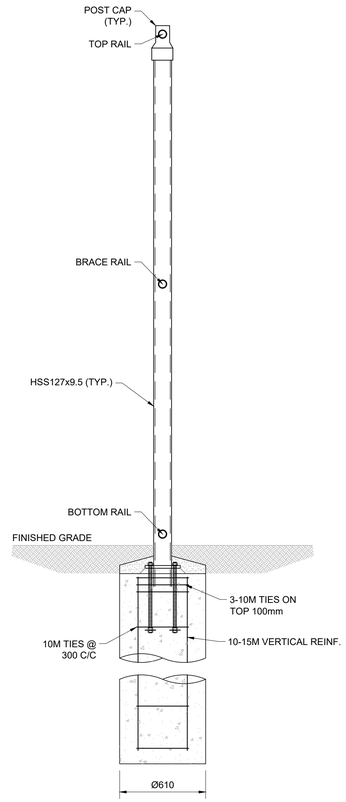
drawn by	reviewed by	drawing number:
JS	PG	D-4
date	scale	
OCT. 2024	N.T.S.	

PROVISIONAL: SHADE SHELTER ON REINFORCED SLAB
N.T.S.

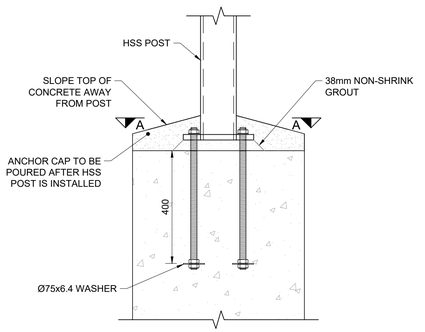
FOOTING TYPE 'A'

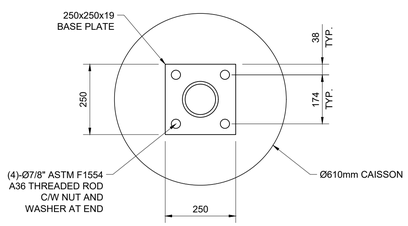


1 S01 ELEVATION
SCALE 1:20



2 S01 SECTION
SCALE 1:20





A-A

3 S01 BASE PLATE DETAIL
SCALE 1:10

GENERAL NOTES:

1. DO NOT SCALE THE DRAWINGS.
2. THE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER RELEVANT CONTRACT DOCUMENTS.
3. GENERAL NOTES TO BE READ IN CONJUNCTION WITH TYPICAL DETAILS.
4. THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE SITE AND REPORT TO THE ENGINEER ANY DISCREPANCIES OR UNSATISFACTORY CONDITIONS WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION, COST, SCHEDULE OR QUALITY OF WORK. COMMENCEMENT OF WORK BY THE CONTRACTOR IMPLIES ACCEPTANCE OF THE EXISTING CONDITIONS.
5. PROTECT ALL EXISTING STRUCTURES, UNDERGROUND UTILITIES AND OTHER EXISTING SERVICES DURING CONSTRUCTION. MAKE GOOD ANY DAMAGE RESULTING FROM THE WORK ON THIS PROJECT TO THE SATISFACTION OF THE OWNER AND ENGINEER.
6. ALL TEMPORARY STRUCTURES OR WORKS INCLUDING SHORING, FORMWORK, SCAFFOLDING, AND FALSEWORK SHALL BE PROVIDED BY THE CONTRACTOR.
7. ALL SHORING SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER. THE CLIENT RESERVES THE RIGHT TO REQUEST ENGINEERED DRAWINGS OR ENGINEER'S APPROVAL FOR SHORING PRIOR TO REMOVAL OF THE SUPPORTING STRUCTURE. RELEVANT DOCUMENTATION SHALL BE PROVIDED AT NO ADDITIONAL COST.
8. TYPICAL DETAILS SHOWN ON DRAWINGS SHALL GOVERN THE WORK. IF DETAILS DIFFER, THE MOST STRINGENT SHALL GOVERN.
9. WORK NOT INDICATED ON A PART OF THE DRAWING BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
10. SITE FEATURES DISTURBED BY CONSTRUCTION BUT NOT INDICATED FOR REMOVAL TO BE REINSTATED TO ORIGINAL CONDITIONS.
11. EXISTING SERVICES REQUIRED TO BE REMOVED OR RELOCATED SHALL BE COMPLETED IN ACCORDANCE WITH THE OWNER'S INSTRUCTIONS.
12. ALL STRUCTURES SHALL BE INSTALLED PLUMB AND LEVEL, AND WITH GOOD CONSTRUCTION PRACTICE.
13. ALL FASTENERS, ANCHORS, BOLTS, AND THREADED RODS SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS UNLESS NOTED OTHERWISE ON THESE DRAWINGS.

EXCAVATION NOTES:

1. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATION OF ANY UNDERGROUND UTILITIES OR OTHER EXISTING SERVICES WHICH MAY INTERFERE WITH THE WORK OF THIS PROJECT AND COORDINATE WITH THE OWNER OR OTHER AUTHORITIES AS MAY BE REQUIRED FOR THEIR RELOCATION, REMOVAL OR TEMPORARY SUPPORT.
2. PROVIDE ADEQUATE MEANS OF DEWATERING TO ENSURE EXCAVATIONS ARE DRY AT ALL TIMES. PLACEMENT OF CONCRETE SHALL ONLY BE MADE IN DRY EXCAVATIONS. THE METHOD OF DEWATERING SHALL BE SUCH AS TO PREVENT SETTLEMENT OF, AND DAMAGE TO, ANY ADJACENT STRUCTURES.

SOILS AND FOUNDATION NOTES:

1. BACKFILLING TO BE COMPLETED AS PER SOIL CONSULTANT RECOMMENDATIONS.
2. THE LINE OF SLOPE BETWEEN EXCAVATIONS FOR FOOTINGS AND FOUNDATION WALL SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10.
3. GEOTECHNICAL ENGINEER TO REVIEW SITE CONDITIONS AND APPROVE ALL SOIL BEARING CAPACITY BEFORE THE PLACEMENT OF FOOTINGS OR PILES.
4. ALL DELIVERED FILL OR GRANULAR MATERIAL SHALL BE COMPACTED TO 100% STANDARD PROCTOR DRY DENSITY OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER TO MINIMIZE OR ELIMINATE SETTLEMENT.
5. FROST DEPTH FOR THIS LOCATION SHALL BE 1200mm (4'-0").
6. IF DESIGN SOIL BEARING PRESSURE FOR BEARING FOUNDATIONS IS NOT REACHED OR UNSOUND CONDITION ARE ENCOUNTERED, THE OWNERS REPRESENTATIVE SHALL BE NOTIFIED PRIOR TO START OF REWORK OR REPLACEMENT OF UNSOUND MATERIALS.
7. ALL EXCAVATIONS AND FOUNDING MATERIAL SHALL BE INSPECTED AND APPROVED BY A QUALIFIED SOILS ENGINEER PRIOR TO CONCRETE PLACEMENT.
8. PROTECT SOIL FROM WATER AND FREEZING ADJACENT TO AND BELOW ALL FOOTINGS, TRENCH WALLS, GRADE BEAMS AND OTHER CONCRETE POURS WITH MINIMUM 1200mm (4'-0") SOIL COVER OR EQUIVALENT.
9. ANY OVER EXCAVATION DUE TO ERROR OR NECESSITATED BY LOCAL SOFT AREAS OR OTHER DELETERIOUS MATERIALS SHALL BE BACKFILLED WITH 10 MPa (208 psf) LEAN CONCRETE FILL AFTER REMOVAL OF ALL LOOSE MATERIAL.
10. SOIL PARAMETERS ARE BASED ON IDEAL SOIL CONDITIONS THAT CONSIDERS BEDROCK AT A DEEP ELEVATION BEYOND CAISSON TOE. IF BEDROCK IS SHALLOW ENGINEERING AND DRAWING MODIFICATIONS WILL BE REQUIRED.

    SOIL PARAMETERS NEAR TOP OF CAISSON:
    γ = 18 kN/m^3
    N_{60} = 10

    SOIL PARAMETERS NEAR BOTTOM OF CAISSON:
    γ = 20 kN/m^3
    N_{60} = 16

CONCRETE NOTES:

1. THE DESIGN AND CONSTRUCTION OF ALL CONCRETE WORK ON THIS PROJECT SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING CSA STANDARDS:

CSA-A23.1	CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION.
CSA-A23.2	METHODS OF TESTING FOR CONCRETE
CSA-A23.3	CODE FOR THE DESIGN OF CONCRETE STRUCTURAL BUILDINGS
CAN/CSA G30.18	BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT (GRADE Fy = 400 MPa)
CSA W186	WELDING OF REINFORCING BARS IN REINFORCED CONCRETE CONSTRUCTION

2. MINIMUM CONCRETE STRENGTH AT 28 DAYS SHALL BE AS 30 MPa (EXPOSURE CLASS F-1).
3. MINIMUM CONCRETE COVER TO REINFORCING BARS SHALL BE 75mm.
4. DETAIL, BEND, PLACE AND SUPPORT REINFORCING STEEL IN CONFORMANCE WITH RSIC MANUAL OF STANDARD PRACTICE. UNLESS NOTED OTHERWISE.
5. DO NOT PLACE CONCRETE UNTIL ALL DESIGNATED REINFORCING STEEL HAS BEEN PLACED AND INSPECTED AND ANY CONDUITS, PIPING OR OTHER EMBEDDED ITEMS ARE INSTALLED AND VERIFIED.
6. ALL EXPOSED CORNERS TO BE CHAMFERED 20mm (3/4") UNLESS NOTED OTHERWISE.
7. KEEP ANCHOR BOLTS CLEAN AND PROTECTED UNTIL TURNOVER TO THE STRUCTURAL STEEL CONTRACTOR.
8. ALL DOWELS SHALL HAVE A MINIMUM EMBEDMENT LENGTH EQUAL TO THE TENSION EMBEDMENT LENGTH UNLESS NOTED OTHERWISE.
9. REINFORCING SPLICES SHALL BE STAGGERED WHERE POSSIBLE.

STRUCTURAL STEEL:

1. ALL HOT ROLLED AND WELDED WIDE FLANGE SHAPES, CHANNELS, ANGLES AND PLATES SHALL CONFORM TO CAN/CSA-G40.21 GRADE 350W. HOLLOW STRUCTURAL SHAPES SHALL CONFORM TO CAN/CSA-G40.21 GRADE 350W-CLASS C.
2. PIPES SHALL CONFORM TO ASTM A53 GRADE B.
3. ALL WELDING OF STRUCTURAL STEEL SHALL CONFORM TO CSA W59 UNLESS NOTED OTHERWISE AND SHALL BE PERFORMED BY CERTIFIED WELDERS.
4. ALL WELDING SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING CSA SPECIFICATIONS:

W47.1	FOR QUALIFICATIONS OF WELDERS
W48.1 AND W48.2	FOR ELECTRODES
W59	FOR DESIGN AND WORKMANSHIP

5. WELD ELECTRODES SHALL BE TYPE E49XX
6. MINIMUM FILLET WELD SIZE SHALL BE 6mm (1/4") UNLESS NOTED OTHERWISE ON DRAWINGS.
7. ALL WEATHER EXPOSED STEEL TO BE FULLY HOT DIP GALVANIZED.

DESIGN PARAMETERS:

1. WIND LOAD (1/50 ONTARIO BUILDING CODE CLIMATIC DATA, PETERBOROUGH)

    q_{50} = 0.41 kPa

NO.	DATE	ISSUED	BY
1.	09/AUG/2024	FOR PERMIT	LH

LICENSED PROFESSIONAL ENGINEER
A. L. PETRUCCI
100135829
Aug 09, 2024
PROVINCE OF ONTARIO

PINPOINT ENGINEERING
58-8841 GEORGE BOLTON PARKWAY, BOLTON, ONTARIO, L7E 2X8
+1 647 639 0089
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CLIENT:

landscape planning
LANDSCAPE ARCHITECTS
Suite 207, 95 Mural Street, Richmond Hill, Ontario L4B 3G2,
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ADDRESS:

BONNERWORTH PARK
560 McDONNEL STREET,
PETERBOROUGH, ON

PROJECT:

BONNERWORTH PARK REDEVELOPMENT
3.66m HT. FENCE DETAILS

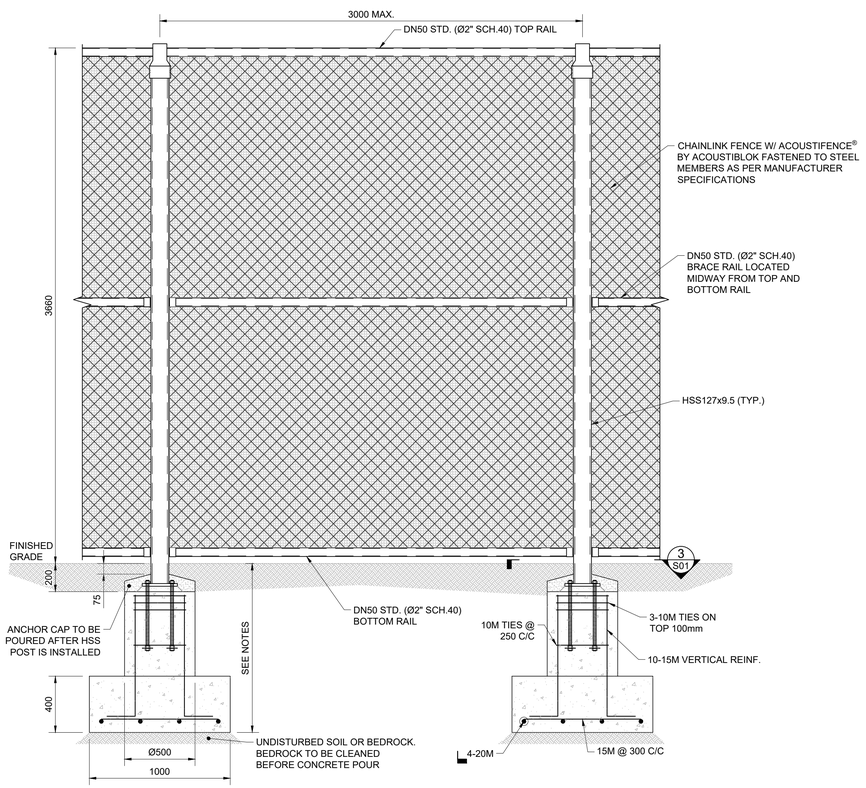
DRAWING TITLE:

3.66m HT. FENCE DETAIL - CONCRETE FOOTING TYP. **(FOOTING TYPE 'A')**

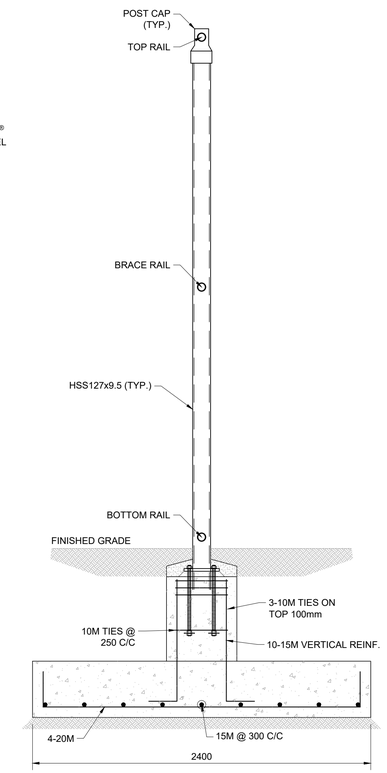
DATE:	AUG. 09, 2024	SHEET:	D-5
DRAWN:	LH		
REVIEWED:	LB		
PROJECT NO:	24178		
SCALE:	AS NOTED		

SIZE: 24"x36"

FOOTING TYPE 'B'

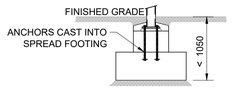


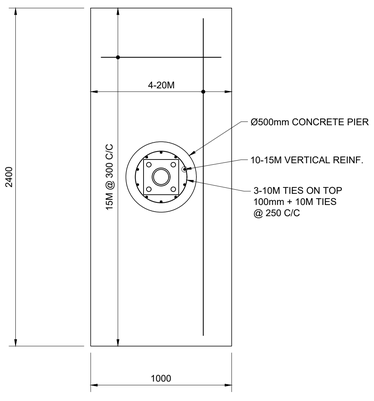
1 S01 ELEVATION SCALE 1:20



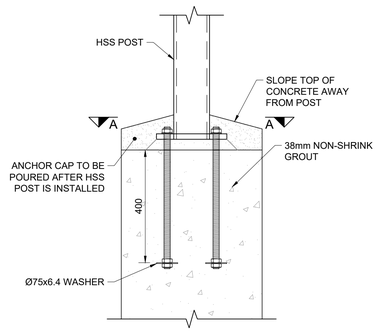
2 S01 SECTION SCALE 1:20

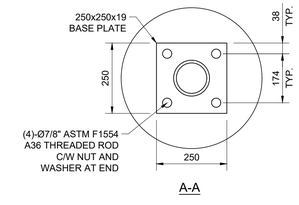
NOTES:
1. MIN. 1200mm OR LESS THAN 1200mm IF BEARING DIRECTLY ON BEDROCK.
2. WHERE BEDROCK IS LESS THAN 1050mm BELOW GRADE CAST ANCHORS INTO SPREAD FOOTING





3 S01 SECTION SCALE 1:20





A-A

4 S01 BASE PLATE DETAIL SCALE 1:10

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7. ALL SHORING SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER. THE CLIENT RESERVES THE RIGHT TO REQUEST ENGINEERED DRAWINGS OR ENGINEER'S APPROVAL FOR SHORING PRIOR TO REMOVAL OF THE SUPPORTING STRUCTURE. RELEVANT DOCUMENTATION SHALL BE PROVIDED AT NO ADDITIONAL COST.
8. TYPICAL DETAILS SHOWN ON DRAWINGS SHALL GOVERN THE WORK. IF DETAILS DIFFER, THE MOST STRINGENT SHALL GOVERN.
9. WORK NOT INDICATED ON A PART OF THE DRAWING BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
10. SITE FEATURES DISTURBED BY CONSTRUCTION BUT NOT INDICATED FOR REMOVAL TO BE REINSTATED TO ORIGINAL CONDITIONS.
11. EXISTING SERVICES REQUIRED TO BE REMOVED OR RELOCATED SHALL BE COMPLETED IN ACCORDANCE WITH THE OWNER'S INSTRUCTIONS.
12. ALL STRUCTURES SHALL BE INSTALLED PLUMB AND LEVEL, AND WITH GOOD CONSTRUCTION PRACTICE.
13. ALL FASTENERS, ANCHORS, BOLTS, AND THREADED RODS SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS UNLESS NOTED OTHERWISE ON THESE DRAWINGS.

EXCAVATION NOTES:

1. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATION OF ANY UNDERGROUND UTILITIES OR OTHER EXISTING SERVICES WHICH MAY INTERFERE WITH THE WORK OF THIS PROJECT AND COORDINATE WITH THE OWNER OR OTHER AUTHORITIES AS MAY BE REQUIRED FOR THEIR RELOCATION, REMOVAL OR TEMPORARY SUPPORT.
2. PROVIDE ADEQUATE MEANS OF DEWATERING TO ENSURE EXCAVATIONS ARE DRY AT ALL TIMES. PLACEMENT OF CONCRETE SHALL ONLY BE MADE IN DRY EXCAVATIONS. THE METHOD OF DEWATERING SHALL BE SUCH AS TO PREVENT SETTLEMENT OF, AND DAMAGE TO, ANY ADJACENT STRUCTURES.

SOILS AND FOUNDATION NOTES:

1. BACKFILLING TO BE COMPLETED AS PER SOIL CONSULTANT RECOMMENDATIONS.
2. THE LINE OF SLOPE BETWEEN EXCAVATIONS FOR FOOTINGS AND FOUNDATION WALL SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10.
3. GEOTECHNICAL ENGINEER TO REVIEW SITE CONDITIONS AND APPROVE ALL SOIL BEARING CAPACITY BEFORE THE PLACEMENT OF FOOTINGS OR PILES.
4. ALL DELIVERED FILL OR GRANULAR MATERIAL SHALL BE COMPACTED TO 100% STANDARD PROCTOR DRY DENSITY OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER TO MINIMIZE OR ELIMINATE SETTLEMENT.
5. ALL FOOTINGS SHALL BEAR ON NATURAL UNDISTURBED SUBGRADE/COMPACTED NATIVE FILL CAPABLE OF CARRYING A SAFE BEARING PRESSURE OF 120 kPa (2510 psf) AND 180 kPa (3760 psf) AT SERVICEABILITY AND ULTIMATE LIMIT STATES RESPECTIVELY.
6. FROST DEPTH FOR THIS LOCATION SHALL BE 1200mm (4'-0").
7. IF DESIGN SOIL BEARING PRESSURE FOR BEARING FOUNDATIONS IS NOT REACHED OR UNSOUND CONDITION ARE ENCOUNTERED, THE OWNERS REPRESENTATIVE SHALL BE NOTIFIED PRIOR TO START OF REWORK OR REPLACEMENT OF UNSOUND MATERIALS.
8. ALL EXCAVATIONS AND FOUNDING MATERIAL SHALL BE INSPECTED AND APPROVED BY A QUALIFIED SOILS ENGINEER PRIOR TO CONCRETE PLACEMENT.
9. ALL BEARING VALUES AND GEOTECHNICAL INFORMATION ARE BASED ON REPORT 12639973 DATED JULY 05, 2024 BY GHD LIMITED.
10. PROTECT SOIL FROM WATER AND FREEZING ADJACENT TO AND BELOW ALL FOOTINGS, TRENCH WALLS, GRADE BEAMS AND OTHER CONCRETE POURS WITH MINIMUM 1200mm (4'-0") SOIL COVER OR EQUIVALENT.
11. ANY OVER EXCAVATION DUE TO ERROR OR NECESSITATED BY LOCAL SOFT AREAS OR OTHER DELETERIOUS MATERIALS SHALL BE BACKFILLED WITH 10 MPa (208 psf) LEAN CONCRETE FILL AFTER REMOVAL OF ALL LOOSE MATERIAL.

CONCRETE NOTES:

1. THE DESIGN AND CONSTRUCTION OF ALL CONCRETE WORK ON THIS PROJECT SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING CSA STANDARDS:

CSA-A23.1	CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION.
CSA-A23.2	METHODS OF TESTING FOR CONCRETE
CSA-A23.3	CODE FOR THE DESIGN OF CONCRETE STRUCTURAL BUILDINGS
CAN/CSA G30.18	BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT (GRADE Fy = 400 MPa)
CSA W186	WELDING OF REINFORCING BARS IN REINFORCED CONCRETE CONSTRUCTION

2. MINIMUM CONCRETE STRENGTH AT 28 DAYS SHALL BE AS 30 MPa (EXPOSURE CLASS F-1).
3. MINIMUM CONCRETE COVER TO REINFORCING BARS SHALL BE 75mm.
4. DETAIL, BEND, PLACE AND SUPPORT REINFORCING STEEL IN CONFORMANCE WITH RSIC MANUAL OF STANDARD PRACTICE. UNLESS NOTED OTHERWISE.
5. DO NOT PLACE CONCRETE UNTIL ALL DESIGNATED REINFORCING STEEL HAS BEEN PLACED AND INSPECTED AND ANY CONDUITS, PIPING OR OTHER EMBEDDED ITEMS ARE INSTALLED AND VERIFIED.
6. ALL EXPOSED CORNERS TO BE CHAMFERED 20mm (3/4") UNLESS NOTED OTHERWISE.
7. KEEP ANCHOR BOLTS CLEAN AND PROTECTED UNTIL TURNOVER TO THE STRUCTURAL STEEL CONTRACTOR.
8. ALL DOWELS SHALL HAVE A MINIMUM EMBEDMENT LENGTH EQUAL TO THE TENSION EMBEDMENT LENGTH UNLESS NOTED OTHERWISE.
9. REINFORCING SPLICES SHALL BE STAGGERED WHERE POSSIBLE.

STRUCTURAL STEEL:

1. ALL HOT ROLLED AND WELDED WIDE FLANGE SHAPES, CHANNELS, ANGLES AND PLATES SHALL CONFORM TO CAN/CSA-G40.21 GRADE 350W. HOLLOW STRUCTURAL SHAPES SHALL CONFORM TO CAN/CSA-G40.21 GRADE 350W-CLASS C.
2. PIPES SHALL CONFORM TO ASTM A53 GRADE B.
3. ALL WELDING OF STRUCTURAL STEEL SHALL CONFORM TO CSA W59 UNLESS NOTED OTHERWISE AND SHALL BE PERFORMED BY CERTIFIED WELDERS.
4. ALL WELDING SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING CSA SPECIFICATIONS:
   - W47.1 FOR QUALIFICATIONS OF WELDERS
   - W48.1 AND W48.2 FOR ELECTRODES
   - W59 FOR DESIGN AND WORKMANSHIP
5. WELD ELECTRODES SHALL BE TYPE E49XX
6. MINIMUM FILLET WELD SIZE SHALL BE 6mm (1/4") UNLESS NOTED OTHERWISE ON DRAWINGS.
7. ALL WEATHER EXPOSED STEEL TO BE FULLY HOT DIP GALVANIZED.

DESIGN PARAMETERS:

1. WIND LOAD (1/50 ONTARIO BUILDING CODE CLIMATIC DATA, PETERBOROUGH)

   q_{50} = 0.41 kPa

NO.	DATE	ISSUED	BY
1.	19/JULY/2024	FOR PERMIT	LB

LICENSED PROFESSIONAL ENGINEER — A. SVIDSKI — 100204142 — Jul 19 2024 — PROVINCE OF ONTARIO

PINPOINT ENGINEERING

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ADDRESS:

BONNERWORTH PARK
560 McDONNEL STREET,
PETERBOROUGH, ON

PROJECT:

BONNERWORTH PARK REDEVELOPMENT
ACOUSTIC FENCE DETAILS

DRAWING TITLE:

3.66m HT FENCE DETAIL - SPREAD FOOTING **(FOOTING TYPE 'B')**

DATE:	JULY 19, 2024
DRAWN:	LB
REVIEWED:	AS
PROJECT NO:	24178
SCALE:	AS NOTED

SHEET: D-6

SIZE: 24"x36"