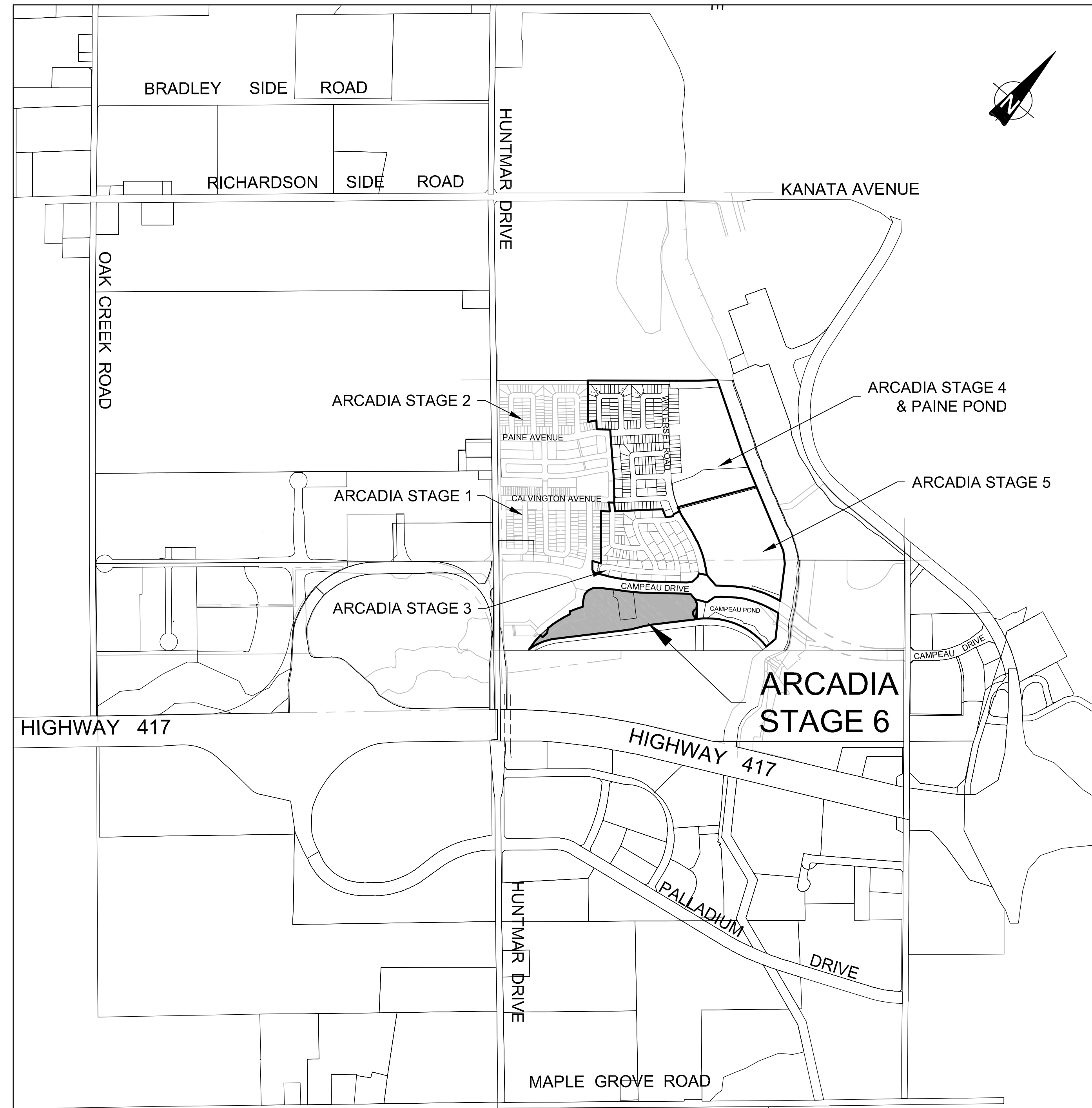


MINTO COMMUNITIES INC.  
 200-180 KENT STREET  
 OTTAWA, ON  
 K1P 0B6



**ARCADIA STAGE 6 DRAWING LIST**

Sheet Number	Sheet Title
CS	COVER SHEET
LEGEND	LEGEND SHEET
OS	OVERALL SITE SERVICING PLAN
S1	SITE SERVICING PLAN
S2	SITE SERVICING PLAN
01	STREET 1
02	STREET 1
03	STREET 2
04	STREET 3
05	STREET 4
06	STREET 5
07	STREET 6
08	EXISTING DONUM LANE
G1	GRADING PLAN
G2	GRADING PLAN
SWM1	PONDING PLAN
SWM2	PONDING PLAN
DST	STORM DRAINAGE PLAN
DSAN	SANITARY DRAINAGE PLAN
ESC	EROSION AND SEDIMENT CONTROL PLAN
D1	DETAILS PLAN

**J.L. Richards**  
 ENGINEERS-ARCHITECTS-PLANNERS

**J.L. Richards & Associates Limited**  
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 Tel: 613 728 3571  
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**ARCADIA STAGE 6**

450 HUNTMAR DRIVE

ISSUED FOR REVIEW  
 JULY 19, 2022  
 JLR JOB# 26299-006

### SITE SERVICING

**EXISTING**

**PROPOSED**

**WATERMAIN**

**SANITARY SEWER**

**STORM SEWER**

**PERFORATED PIPE**

**CB & ICD SYMBOLS**  
(REFER TO ICD TABLE FOR DETAILS)

**DITCH AND CULVERT**

**BOREHOLE (BH)**

**TESTPIT (TP)**

**DRAWING REFERENCE NUMBER**

8

### GRADING

GEODETIC BENCHMARKS RECEIVED FROM STANTEC DECEMBER 10, 2018

91.00 CONTOUR  
 92.52 PROPOSED ELEVATION  
 92.49 EXISTING ELEVATION  
 T/G 92.55 TOP OF GRATE ELEVATION  
 PROPOSED TERRACING  
 DENOTES TOP AND BOTTOM OF DITCH @ 3:1 UNLESS OTHERWISE NOTED  
 1.5% SURFACE SLOPE  
 FLOW DIRECTION  
 MAJOR OVERLAND FLOW DIRECTION  
 EMERGENCY OVERLAND FLOW DIRECTION  
 93.05 PROPOSED ELEVATION AT REAR OF HOUSE  
 45 LOT NUMBER  
 UNIT HAS A PRESSURE REDUCING VALVE  
 DENOTES # OF RISERS  
 93.05 PROPOSED ELEVATION AT FRONT OF HOUSE  
 FF = 93.50 FINISHED FLOOR ELEVATION  
 TF = 93.20 TOP OF FOUNDATION ELEVATION  
 UF = 90.65 UNDERSIDE OF FOOTING ELEVATION

### SANITARY DRAINAGE

0.37 AREA IN HECTARES  
 EX. 19A - EX. 19B PIPE REACH UPSTREAM MAINTENANCE HOLE TO DOWNSTREAM MAINTENANCE HOLE  
 16 43 POPULATION  
 NUMBER OF UNITS

### STORM DRAINAGE

0.16 0.72 AREA IN HECTARES  
 532-541 RUNOFF COEFFICIENT  
 PIPE REACH UPSTREAM MAINTENANCE HOLE TO DOWNSTREAM MAINTENANCE HOLE

### EROSION & SEDIMENT CONTROL

PROPOSED SILT FENCE  
 PROPOSED ROCK FLOW CHECK DAM  
 PROPOSED STRAW BALE BARRIER  
 FILTER CLOTH FOR EXISTING ROAD CB'S AND SILT SOCK FOR EXISTING CURB INLET CB'S  
 SILT SOCK FOR EXISTING CURB INLET CB'S  
 PROPOSED RIP RAP TREATMENT  
 PROPOSED EROSION CONTROL BLANKET  
 PROPOSED MUD MAT  
 EAST COAST - 2BSC EROSION BLANKETS

### PONDING (URBAN)

MAX. WATER LEVEL (STATIC)  
 MAX. PONDING VOLUME  
 9 PONDING AREA NUMBER  
 20.0 283 MAX. PONDING AREA (m²)  
 0.20 96.72 MAX. WATER LEVEL (STATIC)  
 PONDING DEPTH (STATIC)

### UTILITY

EXISTING	PROPOSED	DESCRIPTION
H.B.C	H.B.C	JOINT UTILITY TRENCH (HYDRO, BELL, CABLE)
2H, 1B, 1C	2H, 1B, 1C	DENOTES NUMBER OF DUCTS
CONCRETE ENCASED DUCT	CONCRETE ENCASED DUCT	CONCRETE ENCASED DUCT
STREET LIGHT CABLE	STREET LIGHT CABLE	STREET LIGHT CABLE
NATURAL GAS LINE	NATURAL GAS LINE	NATURAL GAS LINE
SERVICE ENTRANCE HYDRO, BELL, CABLE	SERVICE ENTRANCE HYDRO, BELL, CABLE	SERVICE ENTRANCE HYDRO, BELL, CABLE
END WALL BOX	END WALL BOX	END WALL BOX
CABLE PEDESTAL	CABLE PEDESTAL	CABLE PEDESTAL
BELL PEDESTAL	BELL PEDESTAL	BELL PEDESTAL
BELL GRADE LEVEL BOX FOR SPLICING	BELL GRADE LEVEL BOX FOR SPLICING	BELL GRADE LEVEL BOX FOR SPLICING
BELL CENTRAL SPLITTING POINT	BELL CENTRAL SPLITTING POINT	BELL CENTRAL SPLITTING POINT
HYDRO TRANSFORMER	HYDRO TRANSFORMER	HYDRO TRANSFORMER
HYDRO SECTIONALIZER	HYDRO SECTIONALIZER	HYDRO SECTIONALIZER
HYDRO MAINTENANCE HOLE	HYDRO MAINTENANCE HOLE	HYDRO MAINTENANCE HOLE
HYDRO SWITCHING MAINTENANCE HOLE	HYDRO SWITCHING MAINTENANCE HOLE	HYDRO SWITCHING MAINTENANCE HOLE
HYDRO POLE	HYDRO POLE	HYDRO POLE
HYDRO POLE c/w GUY WIRE	HYDRO POLE c/w GUY WIRE	HYDRO POLE c/w GUY WIRE
STREET LIGHT CABINET	STREET LIGHT CABINET	STREET LIGHT CABINET
STREET LIGHT POLE & GROUND WIRE	STREET LIGHT POLE & GROUND WIRE	STREET LIGHT POLE & GROUND WIRE
PATHWAY LIGHT	PATHWAY LIGHT	PATHWAY LIGHT
PARKING LIGHT	PARKING LIGHT	PARKING LIGHT
COMMUNITY MAILBOX	COMMUNITY MAILBOX	COMMUNITY MAILBOX
BUS STOP LOCATION c/w ASPHALT BOULEVARD	BUS STOP LOCATION c/w ASPHALT BOULEVARD	BUS STOP LOCATION c/w ASPHALT BOULEVARD
TREE	TREE	TREE

### GENERAL NOTES

- ALL MATERIALS, SERVICES AND CONSTRUCTION METHODS TO BE IN ACCORDANCE WITH THE CITY OF OTTAWA CURRENT STANDARDS AND SPECIFICATIONS.
- ALL DIMENSIONS SHOWN ON PLANS ARE IN METRES UNLESS OTHERWISE NOTED.
- DRAWINGS TO BE READ IN CONJUNCTION WITH THE GEOTECHNICAL INVESTIGATION REPORT NUMBER PG5648-1 PREPARED BY PATERSON GROUP, DATED JUNE 30, 2022.
- UNLESS OTHERWISE NOTED, PIPE DIMENSIONS ARE MEASURED FROM THE CENTRELINE OF THE MAINTENANCE HOLE.
- THE INSIDE DIAMETER OF PIPES ARE REFERRED TO IN PLAN VIEW AND THE OUTSIDE DIAMETER OF PIPES ARE DRAWN IN PROFILE VIEW.
- THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL SERVICES AND UTILITIES PRIOR TO CONSTRUCTION AND SHALL PROTECT AND ASSURE RESPONSIBILITY FOR ALL UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION, BACKFILL, REINSTATEMENT OF ALL AREAS DISTURBED DURING CONSTRUCTION AND ALL ASSOCIATED WORKS TO THE SATISFACTION OF THE ENGINEER AND THE CITY OF OTTAWA.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE, VIA EXCAVATION, THE EXACT LOCATION AND ELEVATION OF THE EXISTING WATERMANS, SEWERS AND UNDERGROUND STRUCTURES AS REQUIRED FOR ALL CONNECTIONS, RELOCATIONS AND BLANKINGS.
- EXCAVATION, FOR THE INSTALLATION OF SERVICES ALONG OR IN PROXIMITY OF A BUILDING AND STRUCTURES, TO BE CONTAINED WITHIN A TRENCH BOX WIDTH AND ENSURE NO CONFLICT WITH ANY FUTURE FOOTINGS. SELECT SUBGRADE MATERIAL, COMPACTED TO 100% SPMDD TO 1.0m BELOW EXISTING GRADE FOR FULL TRENCH WIDTH OF DISTURBED AREA SHALL BE USED FOR BACKFILL, INCLUDING ALONG ANY SEWERS AND WATERMANS ADJACENT TO A BUILDING AND OTHER STRUCTURES.
- ANY SERVICE LATERAL REQUIRED IN THE DRIVEWAY MUST BE SLEEVED THROUGH UNDER THE GARAGE FLOOR AREA.
- PIPE SEPARATION AS PER CITY OF OTTAWA ROW CROSS SECTIONS.
- SERVICING CONTRACTOR TO PERFORM AN INFILTRATION TEST AS PER OPSD MUNI 410.07.16.03 FOR SANITARY SEWERS BELOW THE WATER TABLE TO ENSURE INFILTRATION LEVELS ARE BELOW THOSE SPECIFIED IN THE OPSD.

### WATERMAIN NOTES

- EXISTING WATERMAIN INFORMATION SHOWN ON PLANS IS BASED ON BEST CURRENT INFORMATION. CONTRACTOR TO VERIFY EXACT LOCATION OF WATERMAIN AND APPURTENANCES. REPORT ANY DISCREPANCIES TO ENGINEER.
- EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMANS BY CONTRACTOR, UNLESS OTHERWISE NOTED. NO WATERMAIN SITE WORK IS TO COMMENCE UNLESS THE CITY OF OTTAWA WATER WORKS INSPECTOR AND/OR CONSULTANT ARE PRESENT ON SITE TO WITNESS WORK.
- WATERMAIN TO BE PVC DR-18.
- WATERMAIN AND WATER SERVICE TO HAVE A MINIMUM OF 2.4 METERS OF COVER. INSULATION TO BE PROVIDED WHERE MINIMUM COVER CANNOT BE ACHIEVED AS PER CITY STANDARD W22 AND WHERE WATERMAIN IS IN PROXIMITY TO OPEN STRUCTURES AS PER CITY STANDARD W23. WATERMAIN TO BE INSTALLED TO DEPTHS SHOWN ON PLANS.
- ALL WATERMANS AND WATER SERVICES LESS THAN 2.4m FROM A STORM SEWER, CATCH BASIN OR MANHOLE SHALL BE INSULATED IN ACCORDANCE WITH THE CITY OF OTTAWA'S REQUIREMENTS AS SET OUT IN THE CITY OF OTTAWA SPECIFICATION [F-4415].
- WATER SERVICES TO BE EXTENDED WITH A CONTINUOUS PEX SECTION PAST THE STAND POST AND LEFT COILED 3.0m PAST THE PROPERTY LINE.
- WATERMAIN THRUST BLOCKS TO BE CONSTRUCTED PER CITY OF OTTAWA DETAILS W25.3 AND W25.4. THRUST BLOCKS ARE REQUIRED AT ALL BENDS, TEES, PLUGS, DEAD END CAPS, VALVES, REDUCERS OR OTHER FITTINGS WHERE CHANGES OCCUR IN PIPE DIAMETER OR DIRECTION ALL IN ACCORDANCE WITH CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- ALL UNITS TO HAVE A PRESSURE REDUCING VALVE ON THE WATER SERVICE.

### STORM SEWER NOTES

- STORM SEWERS TO BE REINFORCED CONCRETE, PVC DR-35, OR CITY APPROVED EQUIVALENT.
- STORM SEWERS WITHIN ROADWAY WITH LESS THAN 2.0m COVER SHALL BE INSULATED.
- STORM MAINTENANCE HOLES TO BE PRECAST CONCRETE IN ACCORDANCE WITH ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD), UNLESS OTHERWISE NOTED.
- STORM CATCH BASIN STRUCTURES TO BE 600mm x 600mm PRECAST CONCRETE OR APPROVED EQUIVALENT C/W 600mm DEEP SUMP AND FRAME AND COVER PER CITY OF OTTAWA DETAIL S19, UNLESS OTHERWISE NOTED.
- BOULEVARD/REAR YARD CATCH BASINS PER CITY OF OTTAWA DETAIL S29 SHALL HAVE SOLID FRAME AND COVER.
- REAR YARD CATCH BASIN TEES AND ELBOWS AS PER CITY OF OTTAWA DETAIL DRAWING S30 AND S31.
- STREET CATCH BASIN LEADS TO BE INSTALLED WITH 1% GRADIENT MINIMUM, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- STORM SERVICES TO BE EXTENDED 3.0m PAST THE PROPERTY LINE.
- 6m SUBDRAIN STUBS c/w CLEAR STONE, WRAPPED IN FILTER SOCK, TO BE INSTALLED ON EITHER SIDE OF STREET CATCH BASINS LOCATED IN A ROADWAY SAGS AND ON THE HIGH SIDE ONLY (i.e. THE UPSTREAM SIDE) FOR STREET CATCH BASINS NOT LOCATED IN A ROADWAY SAGS. THE SUBDRAINS ARE TO BE AS PER CITY OF OTTAWA STANDARD R1 AND TIED INTO THE CATCH BASINS.
- INLET CONTROL DEVICES TO BE VERTICAL SLIDING TYPE FOR REMOVAL FOR CLEANING AS PER CITY OF OTTAWA STANDARDS.

### SANITARY SEWER NOTES

- SANITARY SEWERS TO BE PVC DR-35.
- SANITARY SERVICES TO BE EXTENDED 3.0m PAST THE PROPERTY LINE.
- SANITARY MAINTENANCE HOLES TO BE PRECAST CONCRETE IN ACCORDANCE WITH ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD). ALL SANITARY MAINTENANCE HOLE COVERS TO BE PER CITY OF OTTAWA DETAIL S24.
- CONTRACTOR TO INSTALL TEMPORARY INLET CONTROL DEVICE (ICD) IN SANITARY MAINTENANCE HOLE 101A c/w 38mm ORIFICE DIAMETER. THE ICD SHALL BE INSTALLED AND OPERABLE AT THE ONSET OF SEWER CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL WRITTEN NOTIFICATION BY THE ENGINEER TO BE REMOVED. REFER TO DRAWING D1 FOR TEMPORARY ICD DETAIL.

### GRADING NOTES:

- MATCH EXISTING ELEVATIONS AT ALL EXTERIOR PROPERTY LINES. ENSURE POSITIVE DRAINAGE TOWARD A SUITABLE OUTLET WHETHER INDICATED OR NOT.
- UNDERSIDE OF FOOTING, TOP OF FOUNDATIONS AND FINISHED FLOOR ELEVATIONS HAVE BEEN SET FOR GRADING DRAINAGE PURPOSES ONLY. BUILDERS SHALL CONSULT THE GEOTECHNICAL INVESTIGATION REPORT NUMBER PG5648-1 PREPARED BY PATERSON GROUP, DATED JUNE 30, 2022 FOR THIS SUBDIVISION PRIOR TO CONSTRUCTION. BUILDERS SHALL OBTAIN A SUBGRADE INSPECTION REPORT FROM A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO CONCRETE PLACEMENT.
- ROADWAY SUBGRADE SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF GRANULARS, ABOVE WOVEN GEOTEXTILE (IF REQUIRED). ROADWAY MATERIAL AND COMPACTION INSPECTION TO BE CARRIED OUT BY A QUALIFIED GEOTECHNICAL ENGINEER AS REQUIRED BY THE MUNICIPALITY.
- ROAD STRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED FOR THIS SUBDIVISION AT MINIMUM.

### DRIVEWAYS:

- 50mm WEAR COURSE - H3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
- 150mm BASE - OPSS GRANULAR 'A' COMPACTED TO 98% SPMDD
- 300mm SUBBASE - OPSS GRANULAR 'B' TYPE II COMPACTED TO 98% SPMDD

SUBGRADE - EITHER FILL IN SITU SOIL OR OPSS GRANULAR 'B' TYPE II MATERIAL PLACED OVER IN SITU SOIL. ALL GEOTECHNICAL RECOMMENDATIONS TO BE CONFIRMED ON SITE BY GEOTECHNICAL ENGINEER.

### LOCAL ROADS:

- 40mm WEAR COURSE - SP 12.5 ASPHALTIC CONCRETE
- 50mm UPPER BINDER COURSE - SUPERPAVE 19.0 ASPHALTIC CONCRETE
- 50mm LOWER BINDER COURSE - SUPERPAVE 19.0 ASPHALTIC CONCRETE
- 150mm BASE - OPSS GRANULAR 'A' COMPACTED TO 98% SPMDD
- 400mm SUBBASE - OPSS GRANULAR 'B' TYPE II COMPACTED TO 98% SPMDD

SUBGRADE - EITHER FILL IN SITU SOIL OR OPSS GRANULAR 'B' TYPE II MATERIAL PLACED OVER IN SITU SOIL. ALL GEOTECHNICAL RECOMMENDATIONS TO BE CONFIRMED ON SITE BY GEOTECHNICAL ENGINEER.

### COLLECTOR ROADS:

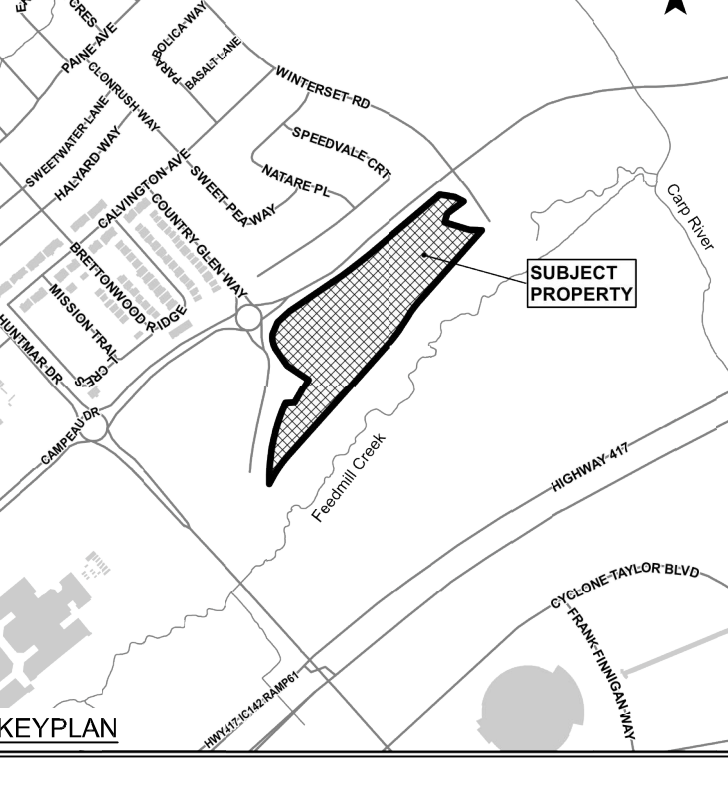
- 40mm WEAR COURSE - SP 12.5 ASPHALTIC CONCRETE
- 50mm UPPER BINDER COURSE - SUPERPAVE 19.0 ASPHALTIC CONCRETE
- 50mm LOWER BINDER COURSE - SUPERPAVE 19.0 ASPHALTIC CONCRETE
- 150mm BASE - OPSS GRANULAR 'A' COMPACTED TO 98% SPMDD
- 600mm SUBBASE - OPSS GRANULAR 'B' TYPE II COMPACTED TO 98% SPMDD

SUBGRADE - EITHER IN SITU SOIL OR OPSS GRANULAR 'B' TYPE II MATERIAL PLACED OVER IN SITU SOIL. ALL GEOTECHNICAL RECOMMENDATIONS TO BE CONFIRMED ON SITE BY GEOTECHNICAL ENGINEER.

- AT ALL CONNECTION POINTS REINSTATE SURFACES TO EXISTING CONDITION OR BETTER:
  - ASPHALT RESTORATION SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DRAWING R25
  - PAVEMENT STRUCTURE, i.e. THICKNESS OF GRANULARS AND ASPHALT LAYERS SHALL MATCH EXISTING
  - BOULEVARDS SHALL BE REINSTATED WITH 100mm TOPSOIL AND SOD
- CURBS TO BE:
  - BARRIER TYPE PER CITY OF OTTAWA STANDARD SCI.1.
  - ALL CURBS TO BE BARRIER TYPE
    - EXCEPT STREET 2 FROM STA. 2+070 TO STA. 2+262
    - EXCEPT WEST SIDE OF STREET 2 FROM STA. 2+262 TO STA. 2+370
    - EXCEPT STREET 3 FROM STA. 3+074 TO 3+158
    - EXCEPT STREET 4 FROM STA. 4+066 TO STA. 4+148
  - MOUNTABLE TYPE PER CITY OF OTTAWA STANDARD SCI.3.
    - STREET 2 FROM STA. 2+070 TO STA. 2+262
    - WEST SIDE OF STREET 2 FROM STA. 2+262 TO STA. 2+370
    - STREET 3 FROM STA. 3+074 TO 3+158
    - STREET 4 FROM STA. 4+066 TO STA. 4+148
- ALL STREETS TO HAVE A CROSS-SECTIONAL CROWN SLOPE OF 3.0%.
- GEOTECHNICAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO IS TO INSPECT ALL SUBGRADE SURFACES FOR FOOTING AND PAVEMENT STRUCTURES PRIOR TO CONSTRUCTION.

### EROSION AND SEDIMENT CONTROL NOTES:

- DURING CONSTRUCTION ACTIVITIES APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES AS OUTLINED IN MIRA'S "GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES" SHALL BE IMPLEMENTED TO TRAP SEDIMENT ON-SITE. (REFER TO EROSION & SEDIMENT CONTROL PLAN, DRAWING ESC.)



No.	ISSUE / REVISION	DATE
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CONSULTANT:

J.L. Richards ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:

PROFESSIONAL STAMP

PROJECT NORTH

PROJECT:

ARCADIA STAGE 6

450 HUNTMAR DRIVE

DRAWING:

LEGEND SHEET

DESIGN: MM

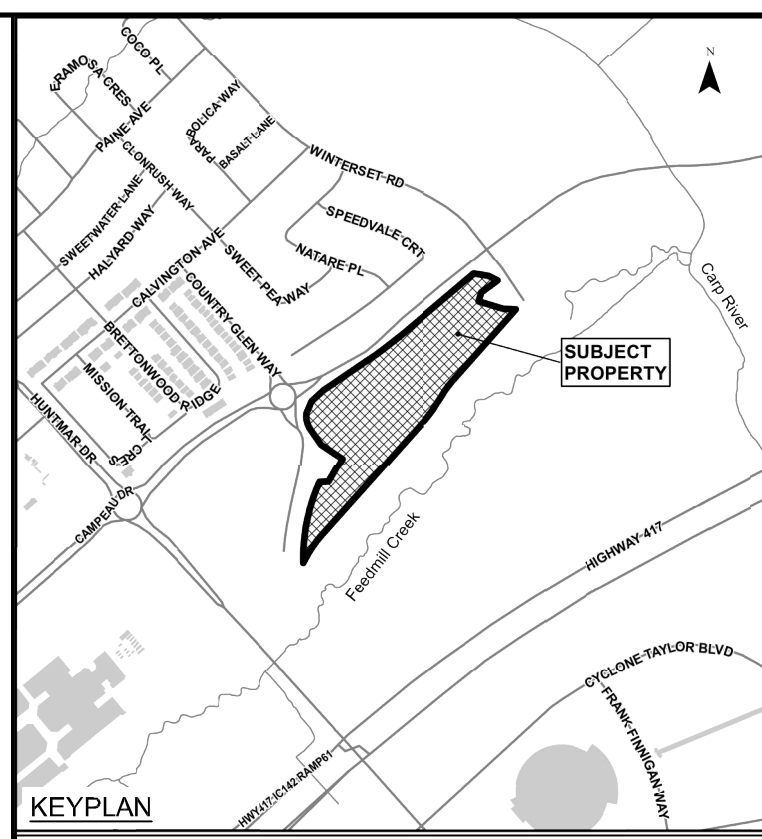
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CHECKED: LD

JLR #: 26299-006

DRAWING #:

**LEGEND**



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ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:

PROFESSIONAL STAMP

PROJECT NORTH

PROJECT:

ARCADIA STAGE 6

450 HUNTMAR DRIVE

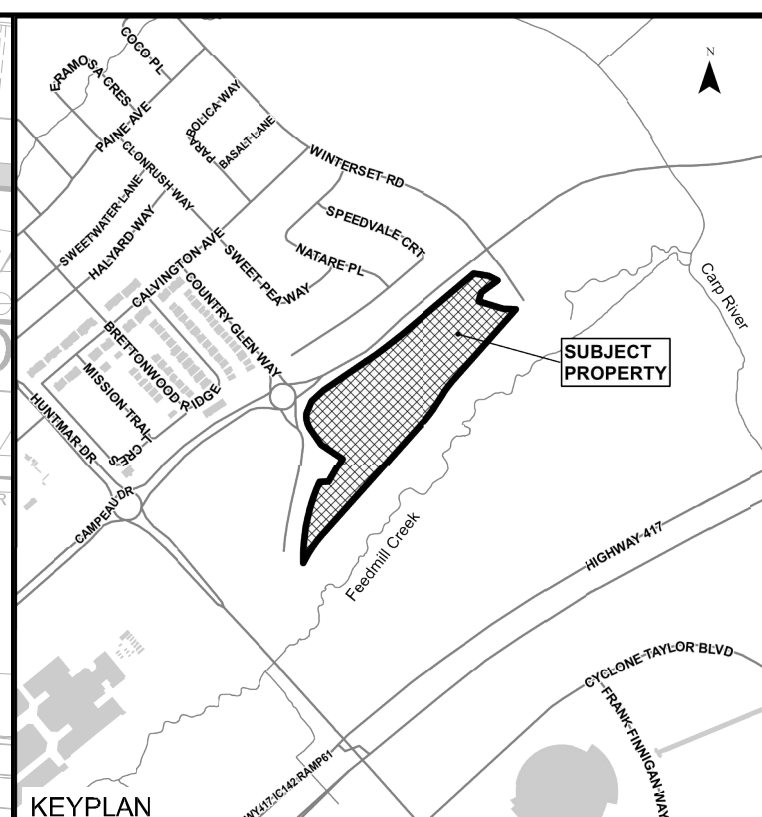
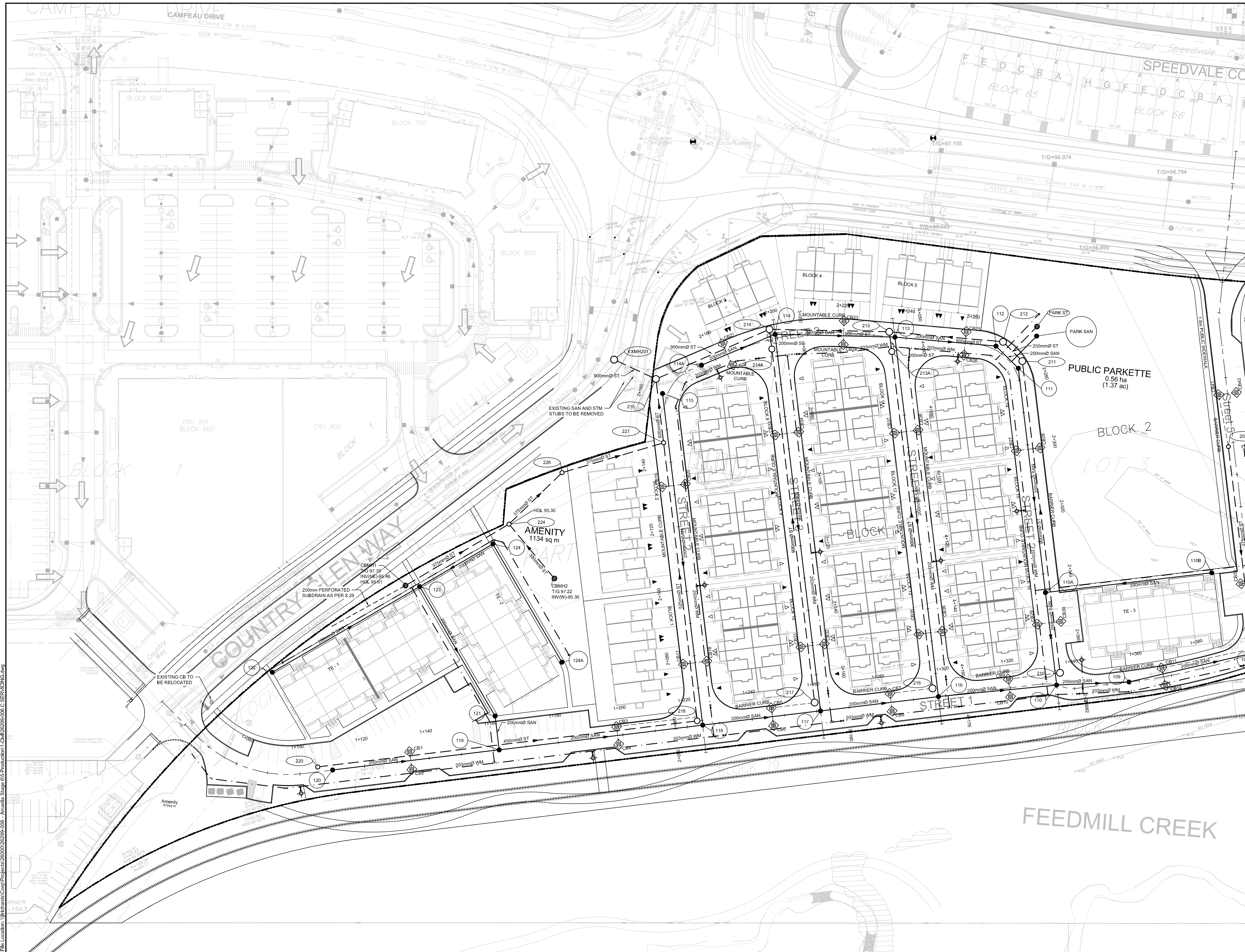
DRAWING:

OVERALL SITE SERVICING PLAN

DESIGN: MM	DRAWING #:
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JLR #: 26299-006	

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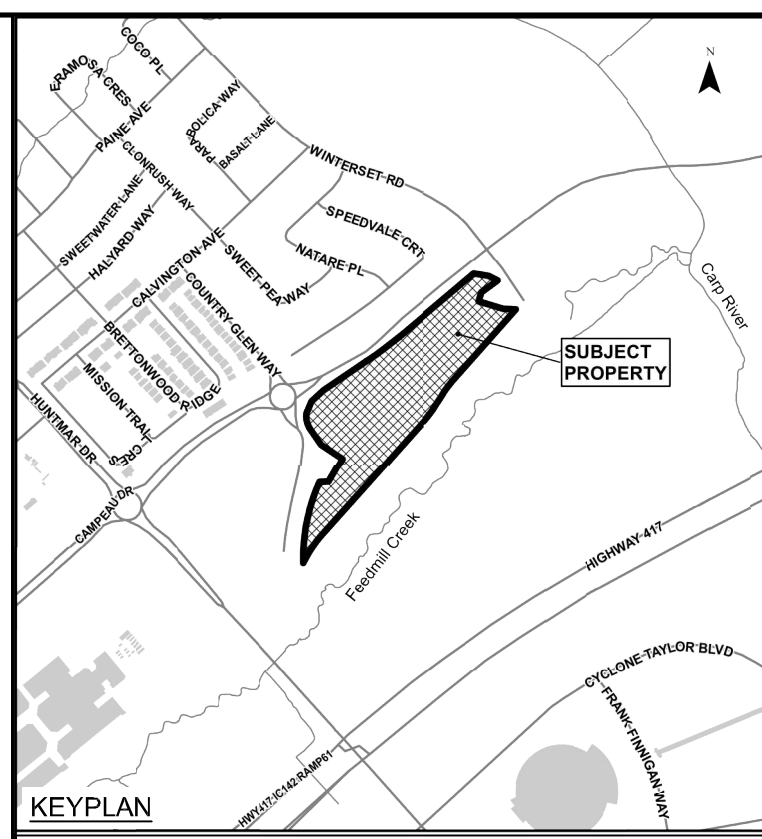
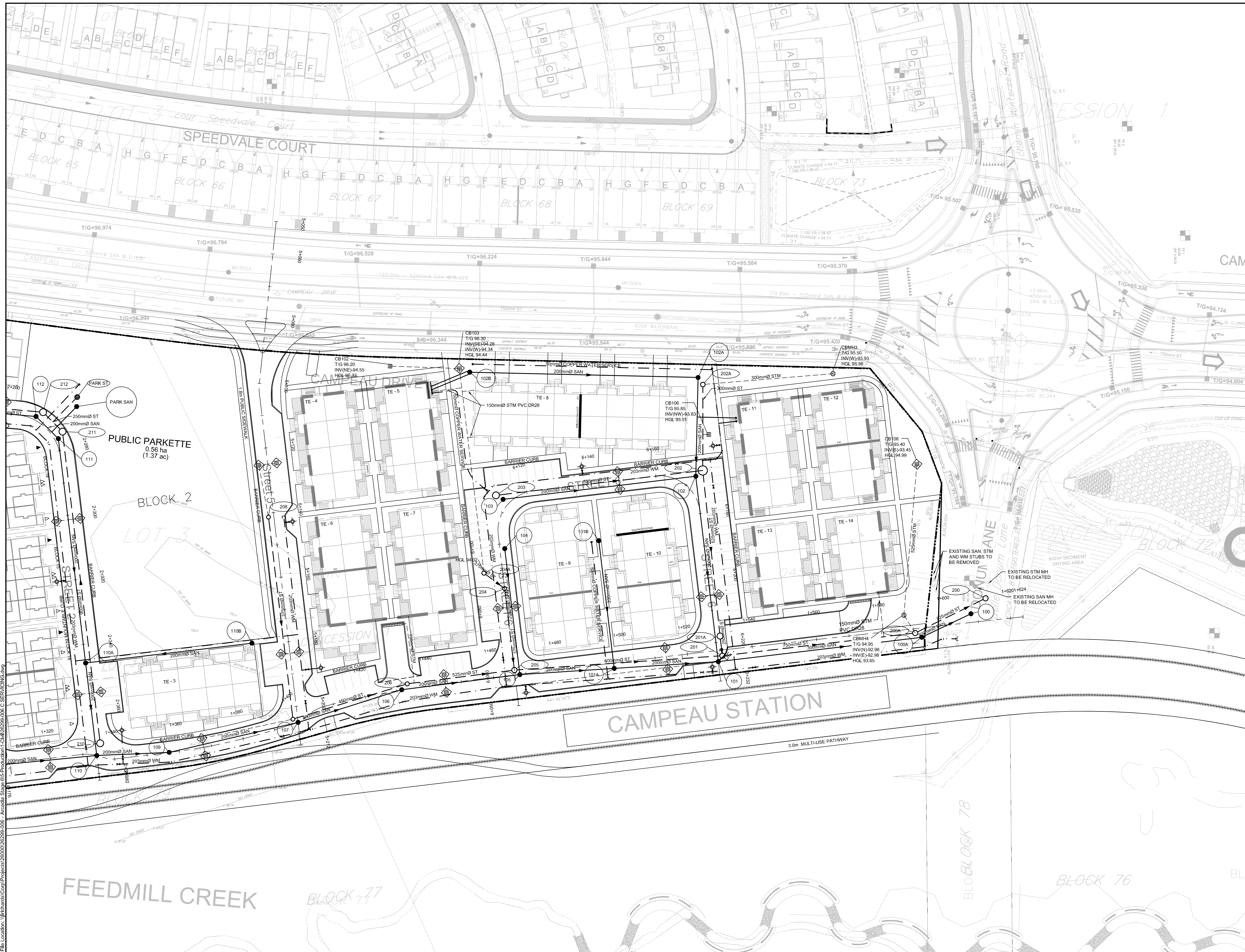
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DRAWN:	KC		
CHECKED:	LD		
JLR #:	26299-006		

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SCALE: 1:1000

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CONSULTANT:

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ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:

PROFESSIONAL STAMP

PROJECT NORTH

PROJECT:

**ARCADIA STAGE 6**

450 HUNTMAR DRIVE

DRAWING:

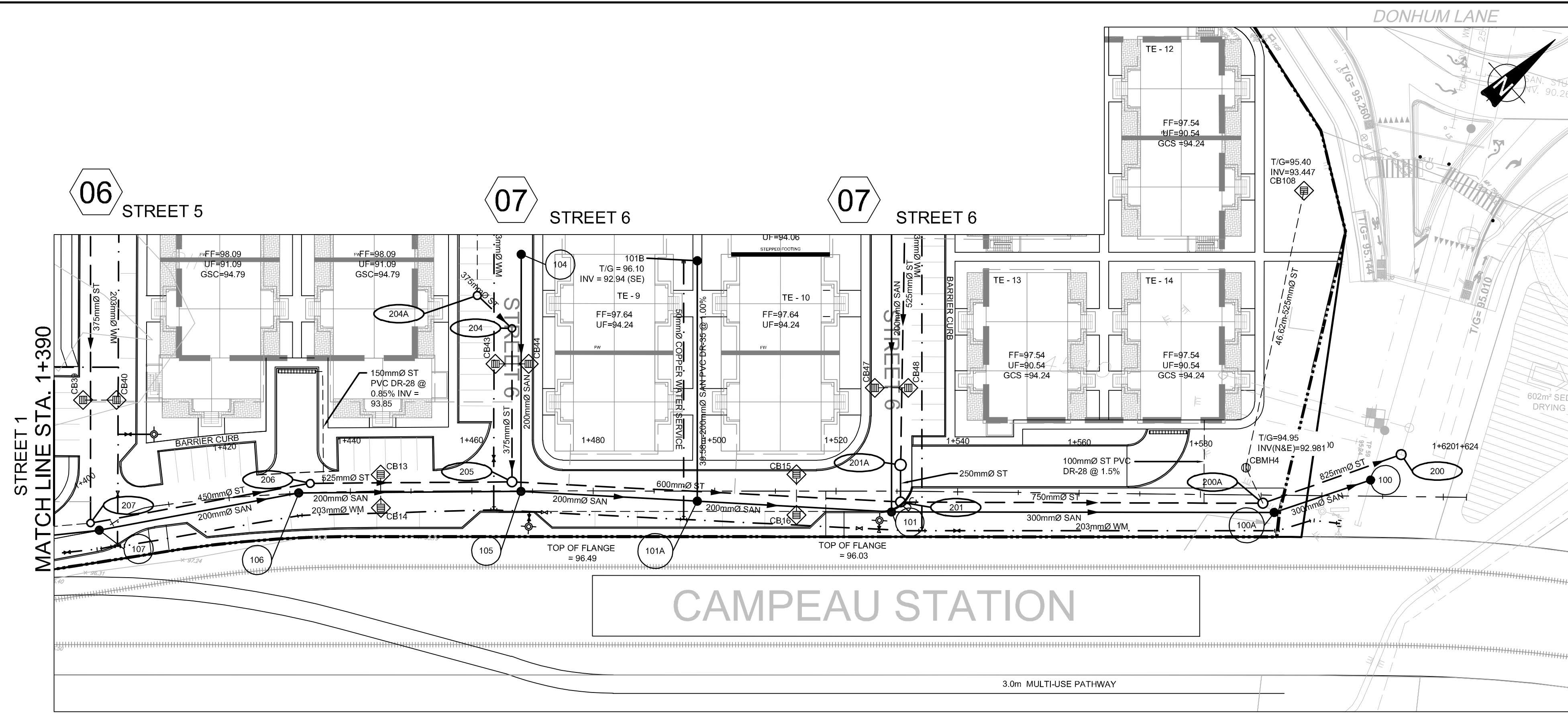
**SITE SERVICING PLAN**

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JLR #:	26299-006		

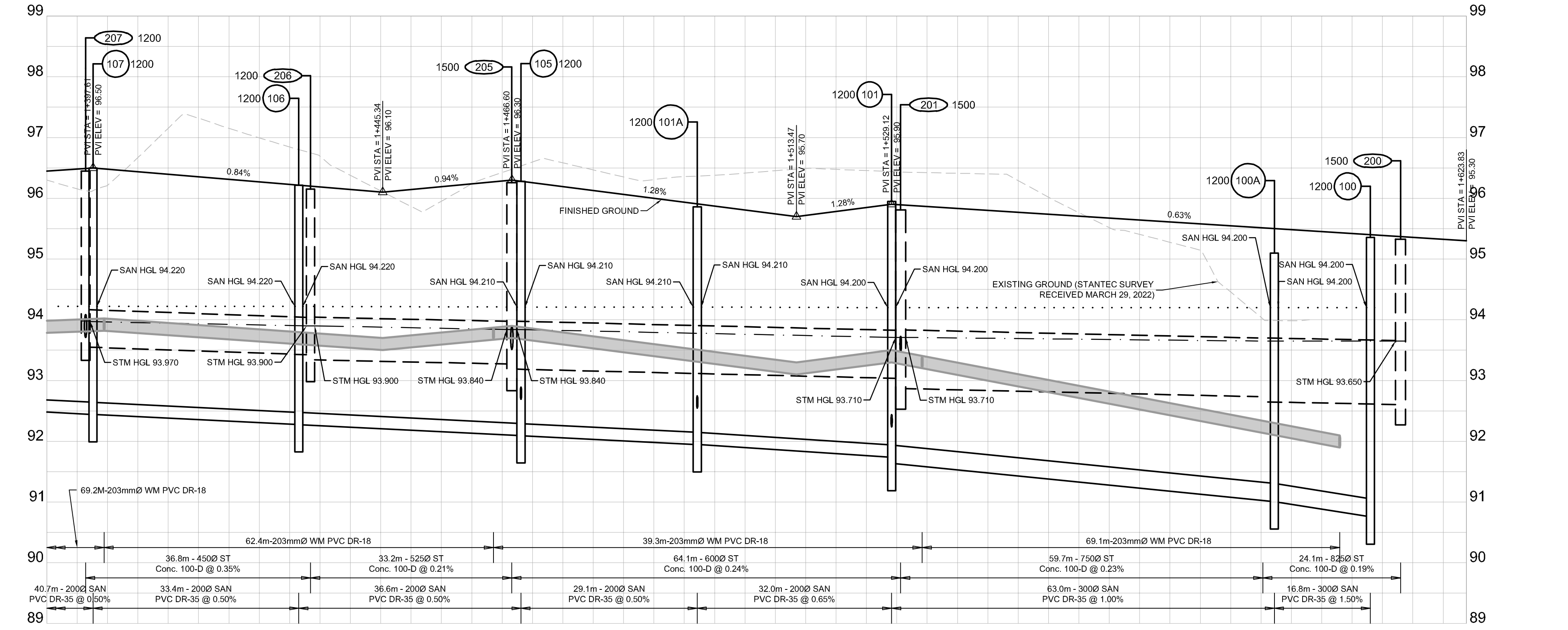
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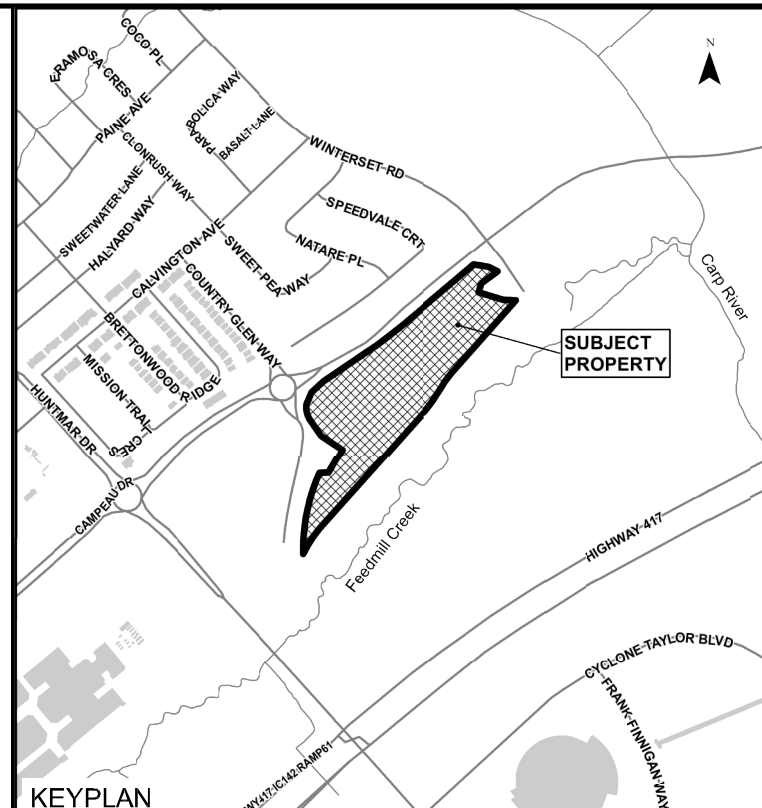




# STREET 1



DESIGN PROFILE ELEVATIONS	W.M. TOP ELEVATIONS	STORM SEWER INV. ELEVATION	SANITARY SEWER INV. ELEVATION	C.L. ROADWAY STATION
93.985	93.985	92.645	92.645	1+390.00
93.985	93.985	92.645	92.645	1+391.76
93.985	93.985	92.645	92.645	1+397.05
94.017	94.017	92.442	92.442	1+400.00
94.017	94.017	92.442	92.442	1+398.47
94.017	94.017	92.442	92.442	1+398.87
94.017	94.017	92.442	92.442	1+399.44
94.017	94.017	92.442	92.442	1+400.00
94.017	94.017	92.442	92.442	1+401.51
94.017	94.017	92.442	92.442	1+402.00
94.017	94.017	92.442	92.442	1+403.56
94.017	94.017	92.442	92.442	1+404.00
94.017	94.017	92.442	92.442	1+405.56
94.017	94.017	92.442	92.442	1+406.00
94.017	94.017	92.442	92.442	1+407.56
94.017	94.017	92.442	92.442	1+408.00
94.017	94.017	92.442	92.442	1+409.56
94.017	94.017	92.442	92.442	1+410.00
94.017	94.017	92.442	92.442	1+411.56
94.017	94.017	92.442	92.442	1+412.00
94.017	94.017	92.442	92.442	1+413.56
94.017	94.017	92.442	92.442	1+414.00
94.017	94.017	92.442	92.442	1+415.56
94.017	94.017	92.442	92.442	1+416.00
94.017	94.017	92.442	92.442	1+417.56
94.017	94.017	92.442	92.442	1+418.00
94.017	94.017	92.442	92.442	1+419.56
94.017	94.017	92.442	92.442	1+420.00
94.017	94.017	92.442	92.442	1+421.56
94.017	94.017	92.442	92.442	1+422.00
94.017	94.017	92.442	92.442	1+423.83



- LEGEND:**
- EXISTING CATCH BASIN
  - PROPOSED CATCH BASIN (w/ ICD)
  - PROPOSED CATCH BASIN & LEAD
  - PROPOSED TEE CATCH BASIN
  - PROPOSED 3-WAY CATCH BASIN
  - PROPOSED WATERMAIN, VALVE & HYDRANT
  - PROPOSED WATERMAIN REDUCER
  - EXISTING WATERMAIN, VALVE & HYDRANT
  - EXISTING SANITARY SEWER & MANHOLE
  - EXISTING STORM SEWER & MANHOLE
  - PROPOSED SANITARY SEWER & MANHOLE
  - PROPOSED STORM SEWER & MANHOLE
  - MANHOLE NUMBER AND SIZE (mm) CW SAFETY PLATFORM PER CPSS 404.200
  - 2 LATERAL - SERVICE CONNECTION (150 mm SAN, 19 mm Water)
  - 3 LATERAL - SERVICE CONNECTION (100 mm ST, 100 SAN, 19 mm Water)
  - CONC. SIDEWALK
  - ASPHALT SIDEWALK
  - FW DENOTES FIRE WALL IN UNIT

No.	ISSUE / REVISION	DD/MM/YY
01	ISSUED TO CITY FOR REVIEW FIRST ENGINEERING SUBMISSION	19/07/22

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SCALE: 1:500 H, 1:50 V

CLIENT:

CONSULTANT:

ENGINEERS - ARCHITECTS - PLANNERS

PROFESSIONAL STAMP

PROJECT NORTH

PROJECT:

ARCADIA STAGE 6

450 HUNTMAR DRIVE

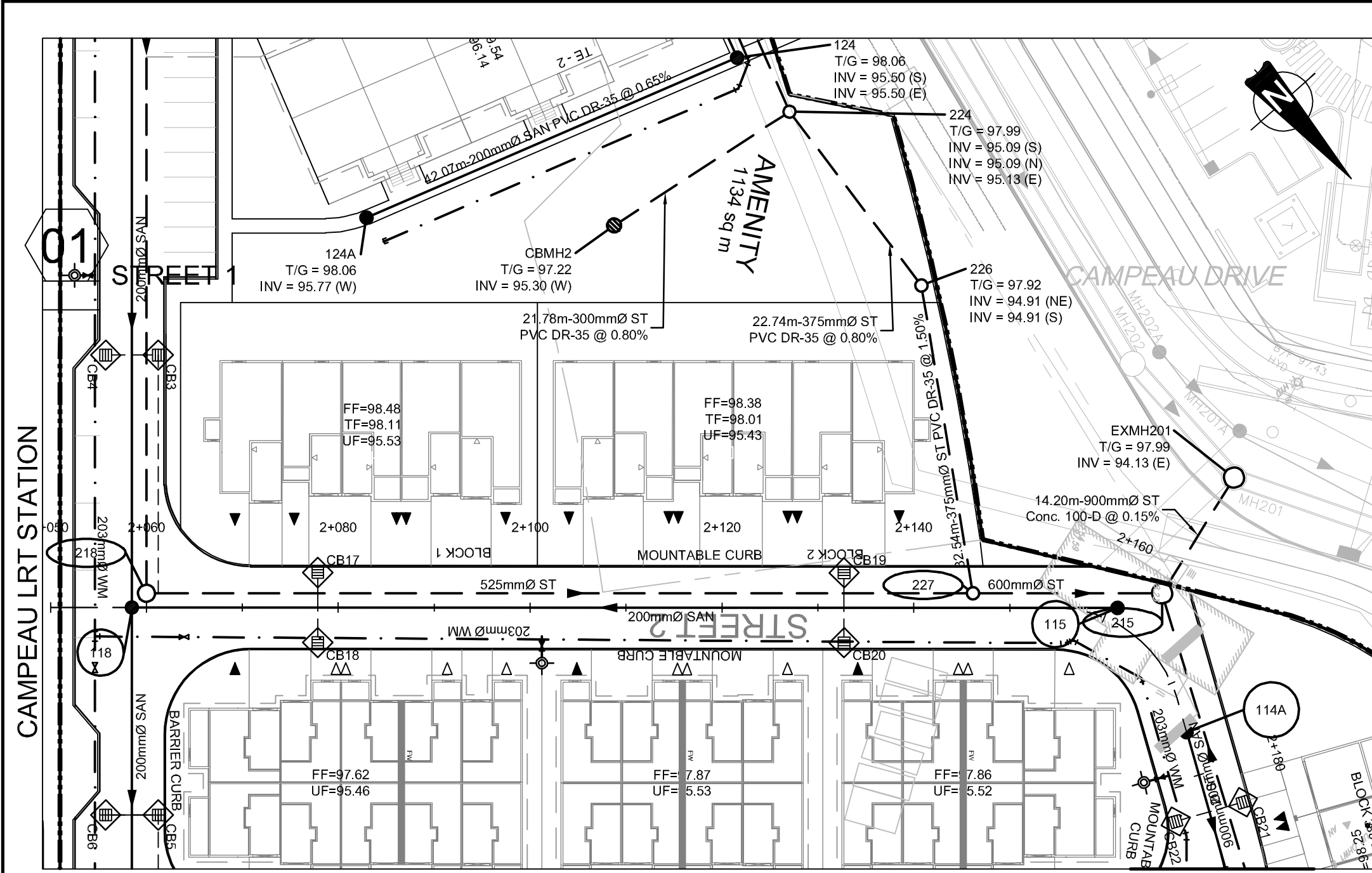
DRAWING:

PLAN & PROFILE STREET 1 1+390 TO 1+623.83

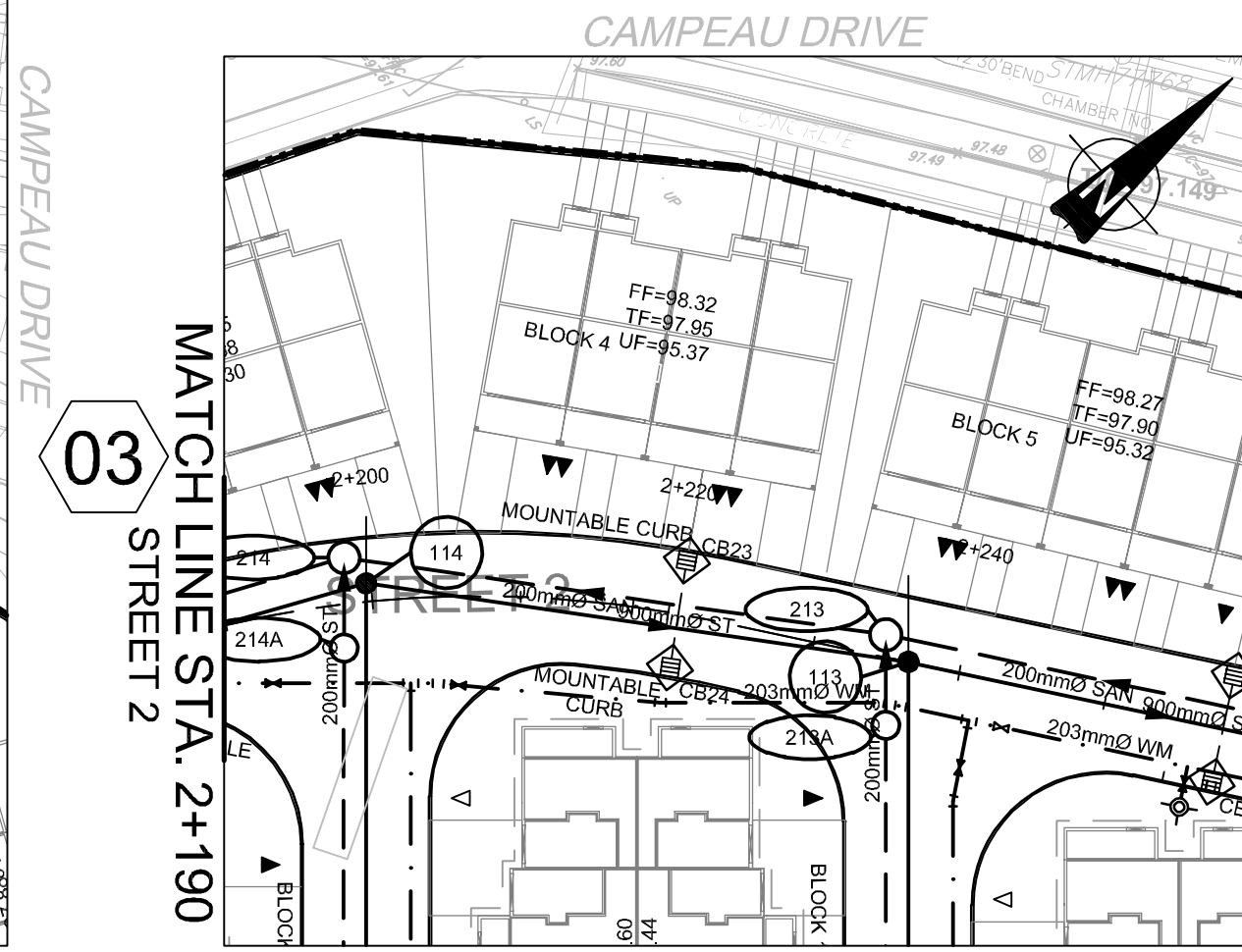
DESIGN: MM	DRAWING #:
DRAWN: KC	02
CHECKED: LD	
JLR #: 26299-006	

File Location: P:\26299-006 - Arcadia Stage 6\Production\1-Chall\26299-006\_C 01-02 STREET 1.dwg

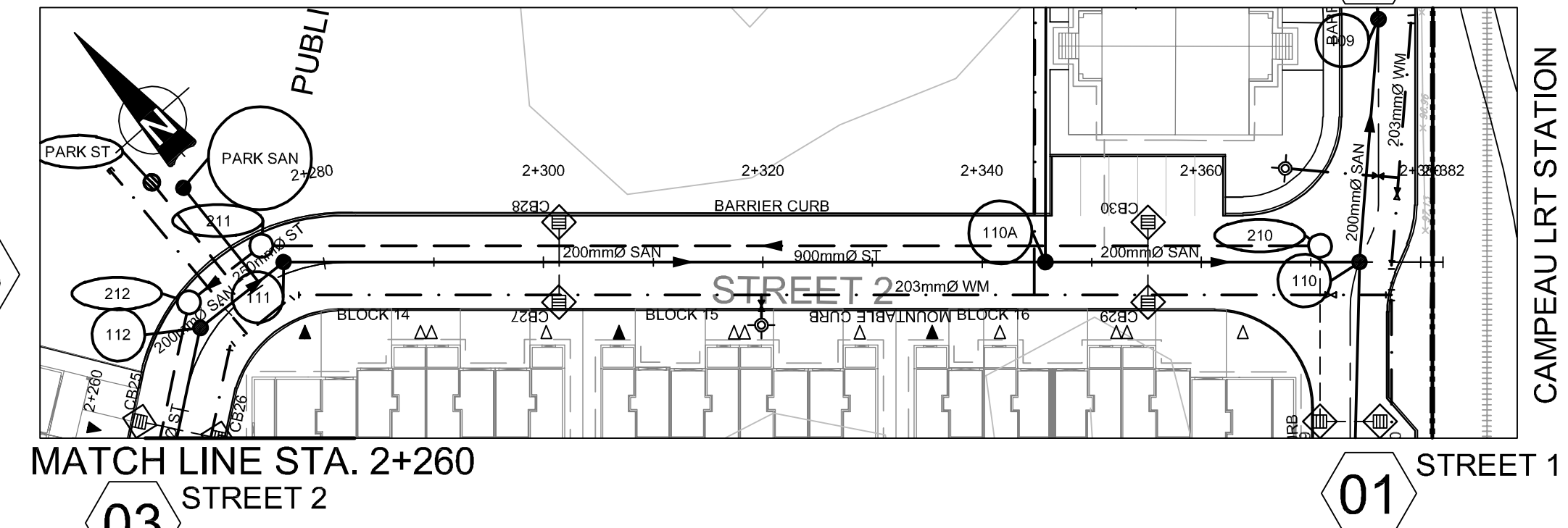
PLOT DATE: July 19, 2022 10:21:16 AM



MATCH LINE STA. 2+190  
STREET 2

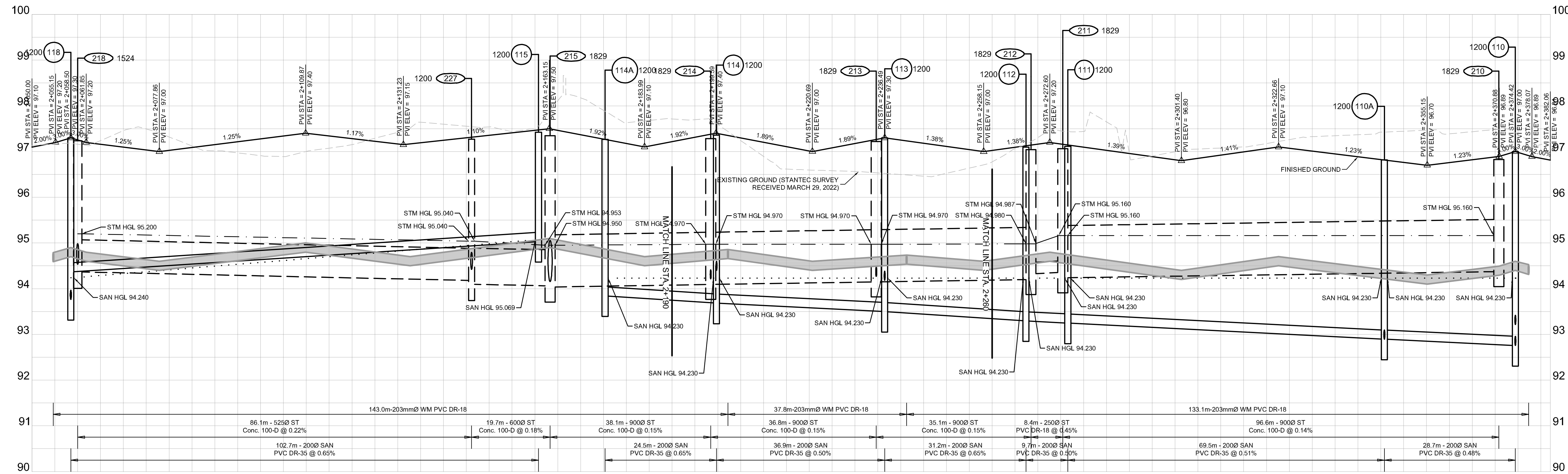


MATCH LINE STA. 2+260  
STREET 2

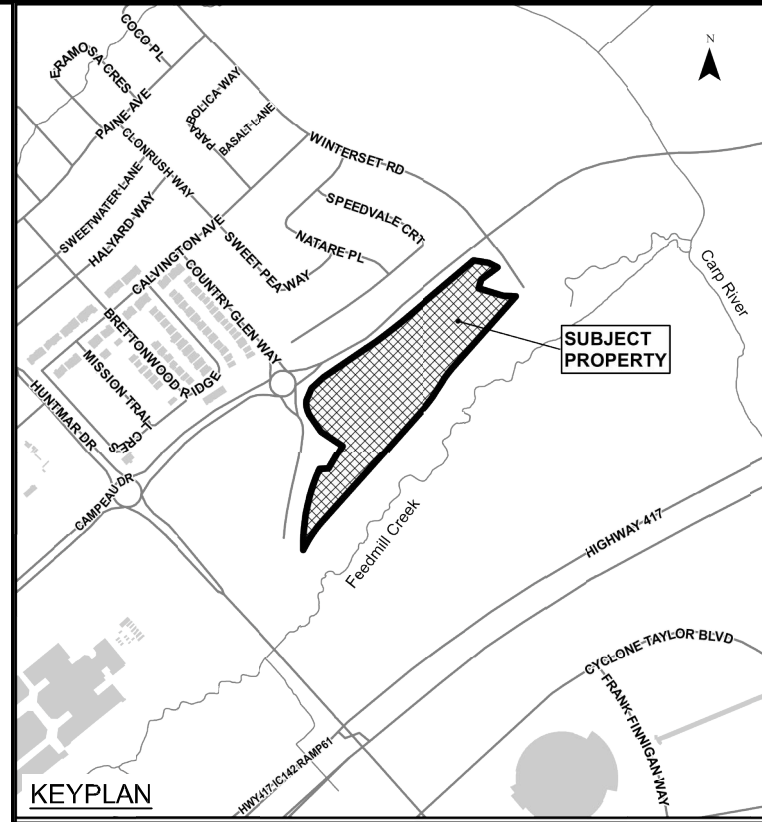


MATCH LINE STA. 2+260  
STREET 2

# STREET 2



STATION	DESIGN PROFILE ELEVATIONS	W.M. TOP ELEVATIONS	STORM SEWER INV. ELEVATION	SANITARY SEWER INV. ELEVATION	C.L. ROADWAY STATION
2+050.00	97.696	97.190	94.260	94.192	2+050.00
2+054.65	97.190	TEE	94.260	94.192	2+054.65
2+058.50	97.255	94.855	94.457	94.384	2+058.50
2+060.00	97.255	VALVE & VALVE BOX			2+060.00
2+063.92	97.027	94.627			2+063.92
2+080.00	97.277	94.877			2+080.00
2+101.22	97.292	94.892			2+101.22
2+120.00	97.281	94.867			2+120.00
2+140.00	97.246	94.796			2+140.00
2+146.15					2+146.15
2+156.05	97.422	95.007			2+156.05
2+157.28	45° HORIZ. BEND	94.725			2+157.28
2+160.00	45° HORIZ. BEND	95.059			2+160.00
2+166.78	97.465	95.059			2+166.78
2+163.32	97.410	95.010			2+163.32
2+167.85	45° HORIZ. BEND	94.792			2+167.85
2+175.35	97.192	94.792			2+175.35
2+175.19	HYDRANT, VALVE & TEE	94.717			2+175.19
2+180.00	97.117	94.717			2+180.00
2+185.80	97.135	94.716			2+185.80
2+192.36	97.281	94.773			2+192.36
2+198.44	97.281	94.773			2+198.44
2+200.00	97.302	94.839			2+200.00
2+202.41	97.251	94.839			2+202.41
2+204.22	97.312	94.830			2+204.22
2+205.72	45° HORIZ. BEND	94.830			2+205.72
2+220.00	97.014	94.811			2+220.00
2+225.53	97.004	94.803			2+225.53
2+235.12	97.274	94.694			2+235.12
2+234.64	11.25° HORIZ. BEND	94.269			2+234.64
2+236.49	93.498	94.269			2+236.49
2+240.00	97.251	94.726			2+240.00
2+241.30	97.233	94.724			2+241.30
2+243.51	97.203	94.717			2+243.51
2+256.31	97.026	94.615			2+256.31
2+260.00	97.026	94.626			2+260.00
2+261.52	97.130	94.730			2+261.52
2+262.48	45° HORIZ. BEND	94.821			2+262.48
2+275.43	97.007	94.859			2+275.43
2+280.00	97.097	94.897			2+280.00
2+276.41	97.147	94.747			2+276.41
2+300.00	96.619	94.419			2+300.00
2+317.86	97.052	94.652			2+317.86
2+320.00	97.002	94.682			2+320.00
2+340.00	96.887	94.487			2+340.00
2+344.52	96.831	94.431			2+344.52
2+345.77	96.856	94.456			2+345.77
2+360.00	96.760	94.360			2+360.00
2+370.88	96.894	94.484			2+370.88
2+370.81	96.797	94.377			2+370.81
2+374.42	96.912	94.528			2+374.42
2+377.35	96.852	94.452			2+377.35
2+382.06	96.811	94.411			2+382.06



**LEGEND**

- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN @ W/O
- PROPOSED CATCH BASIN & LEAD
- PROPOSED TEE CATCH BASIN
- PROPOSED 3-WAY CATCH BASIN
- PROPOSED WATERMAN, VALVE & HYDRANT
- PROPOSED WATERMAN REDUCER
- EXISTING WATERMAN, VALVE & HYDRANT
- EXISTING SANITARY SEWER & MANHOLE
- EXISTING STORM SEWER & MANHOLE
- PROPOSED SANITARY SEWER & MANHOLE
- PROPOSED STORM SEWER & MANHOLE
- MANHOLE NUMBER AND SIZE (mm) CW SAFETY PLATFORM PER CPSS 04-030
- 2 LATERAL - SERVICE CONNECTION (150 mm SAN, 19 mm Water)
- 3 LATERAL - SERVICE CONNECTION (100mm ST, 150 SAN, 75 mm Water)
- CONC. SIDEWALK
- ASPHALT SIDEWALK
- FW DENOTES FIRE WALL IN UNIT

01	ISSUED TO CITY FOR REVIEW FIRST ENGINEERING SUBMISSION	19/07/22
No.	ISSUE / REVISION	DD/MM/YY

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 SCALE: 1:500 H, 1:50 V

CLIENT:  
 minto Communities

CONSULTANT:  
 J.L. Richards  
 ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:

PROFESSIONAL STAMP PROJECT NORTH

PROJECT:  
 ARCADIA STAGE 6  
 450 HUNTMAR DRIVE

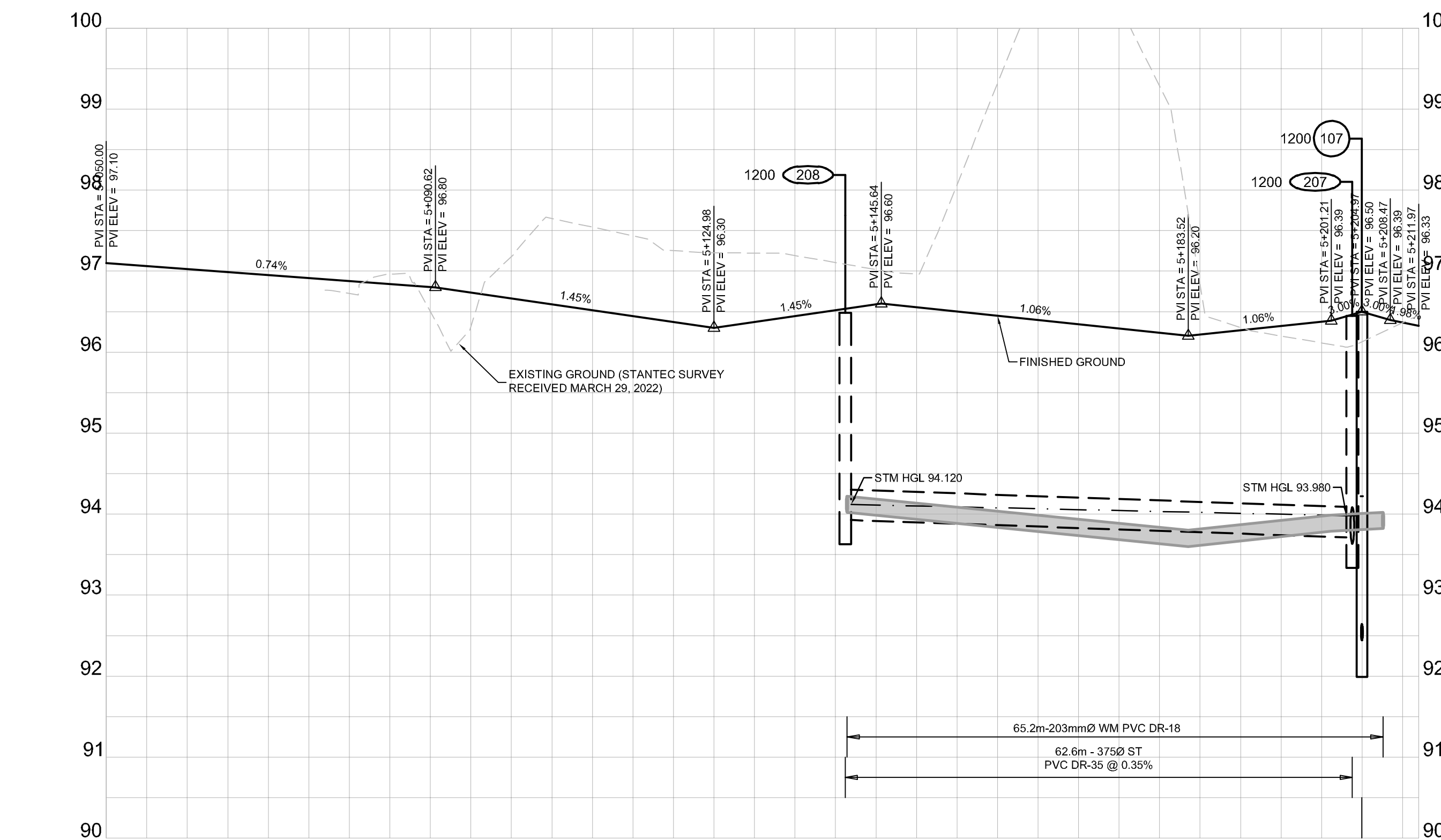
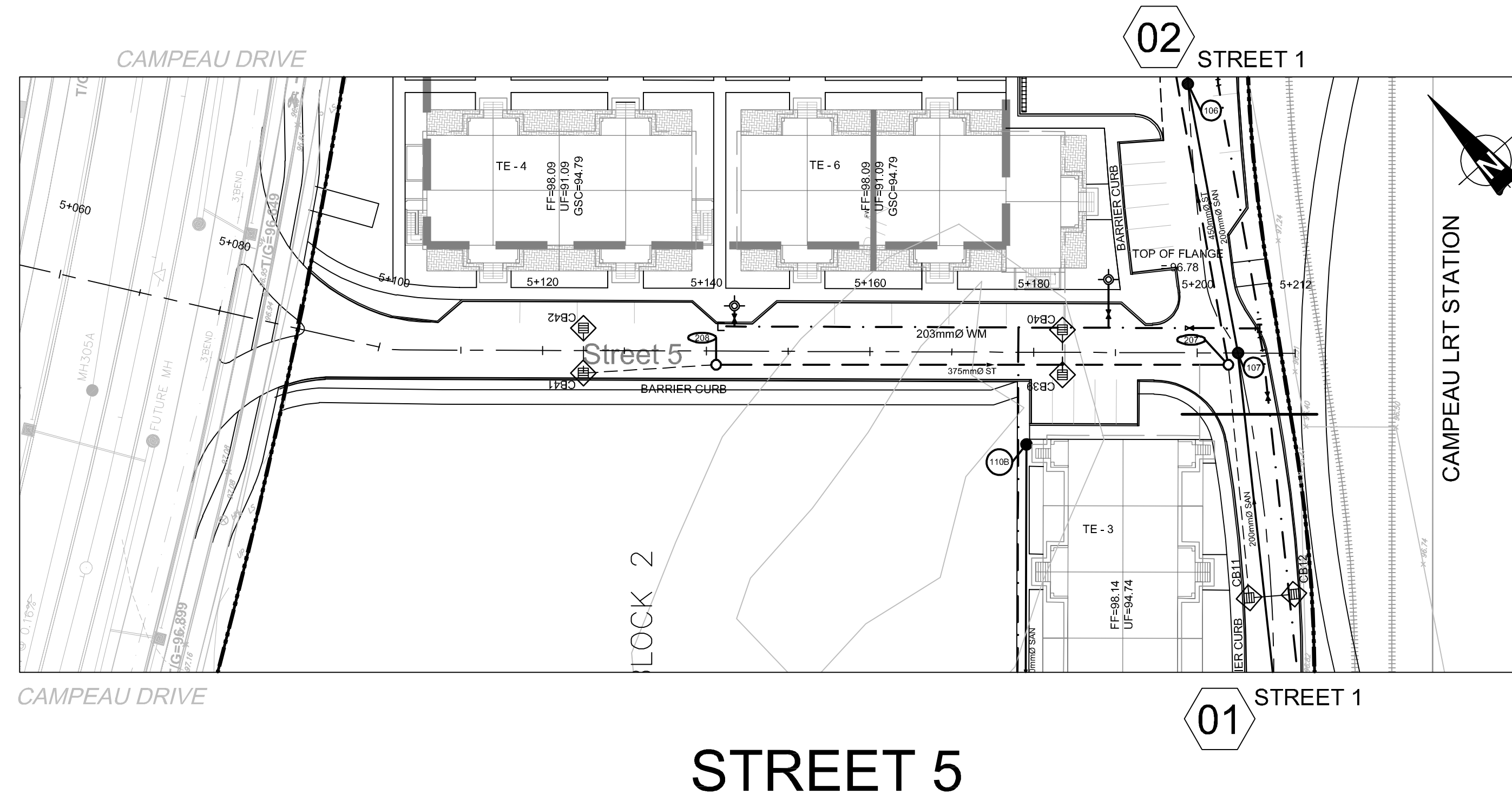
DRAWING:  
 PLAN & PROFILE  
 STREET 2  
 2+050 TO 2+382.06

DESIGN: MM	DRAWING #:
DRAWN: KC	03
CHECKED: LD	
JLR #:	26299-006

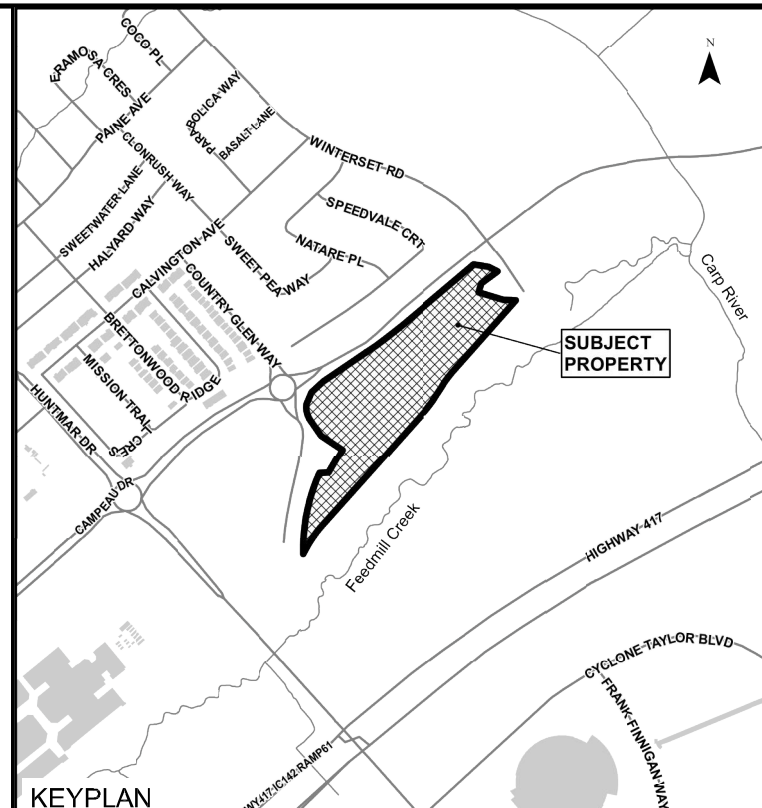








DESIGN PROFILE ELEVATIONS	97.100	97.028	96.978	97.118	96.683	96.312	96.039	96.516	96.260	96.237	96.267	96.984	96.374	96.421	96.320			
W.M. TOP ELEVATIONS							94.222 CAP	96.659 HYDRANT, VALVE & TEE	93.835 TEE	93.835 TEE	93.867 HYDRANT, VALVE & TEE	96.984 VALVE & VALVE BOX	96.374 VALVE & VALVE BOX	96.421 TEE	96.320			
STORM SEWER INV. ELEVATION							93.929						93.710					
SANITARY SEWER INV. ELEVATION																		
C.L. ROADWAY STATION	5+050.00	5+060.00	5+080.00	5+100.00	5+120.00	5+141.42	5+140.00	5+141.21	5+143.42	5+160.00	5+177.97	5+188.90	5+198.98	5+200.00	5+203.79	5+204.97	5+207.58	5+211.97



**LEGEND**

- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN w/ LEAD
- PROPOSED CATCH BASIN & LEAD
- PROPOSED TEE CATCH BASIN
- PROPOSED 3-WAY CATCH BASIN
- PROPOSED WATERMAIN, VALVE & HYDRANT
- PROPOSED WATERMAIN REDUCER
- EXISTING WATERMAIN, VALVE & HYDRANT
- EXISTING SANITARY SEWER & MANHOLE
- EXISTING STORM SEWER & MANHOLE
- PROPOSED SANITARY SEWER & MANHOLE
- PROPOSED STORM SEWER & MANHOLE
- MANHOLE NUMBER AND SIZE (mm) CW SAFETY PLATFORM PER CPD 64-30
- 2 LATERAL - SERVICE CONNECTION (150 mm SAN, 19 mm Water)
- 1 LATERAL - SERVICE CONNECTION (100mm ST, 150 SAN, 19 mm Water)
- CONC. SIDEWALK
- ASPHALT SIDEWALK
- FW DENOTES FIRE WALL IN UNIT

01	ISSUED TO CITY FOR REVIEW FIRST ENGINEERING SUBMISSION	19/07/22
No.	ISSUE / REVISION	DD/MM/YY

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SCALE: 1:500 H, 1:50 V

CLIENT:

CONSULTANT:

J.L. Richards  
ENGINEERS · ARCHITECTS · PLANNERS

PROFESSIONAL STAMP	PROJECT NORTH
--------------------	---------------

PROJECT:

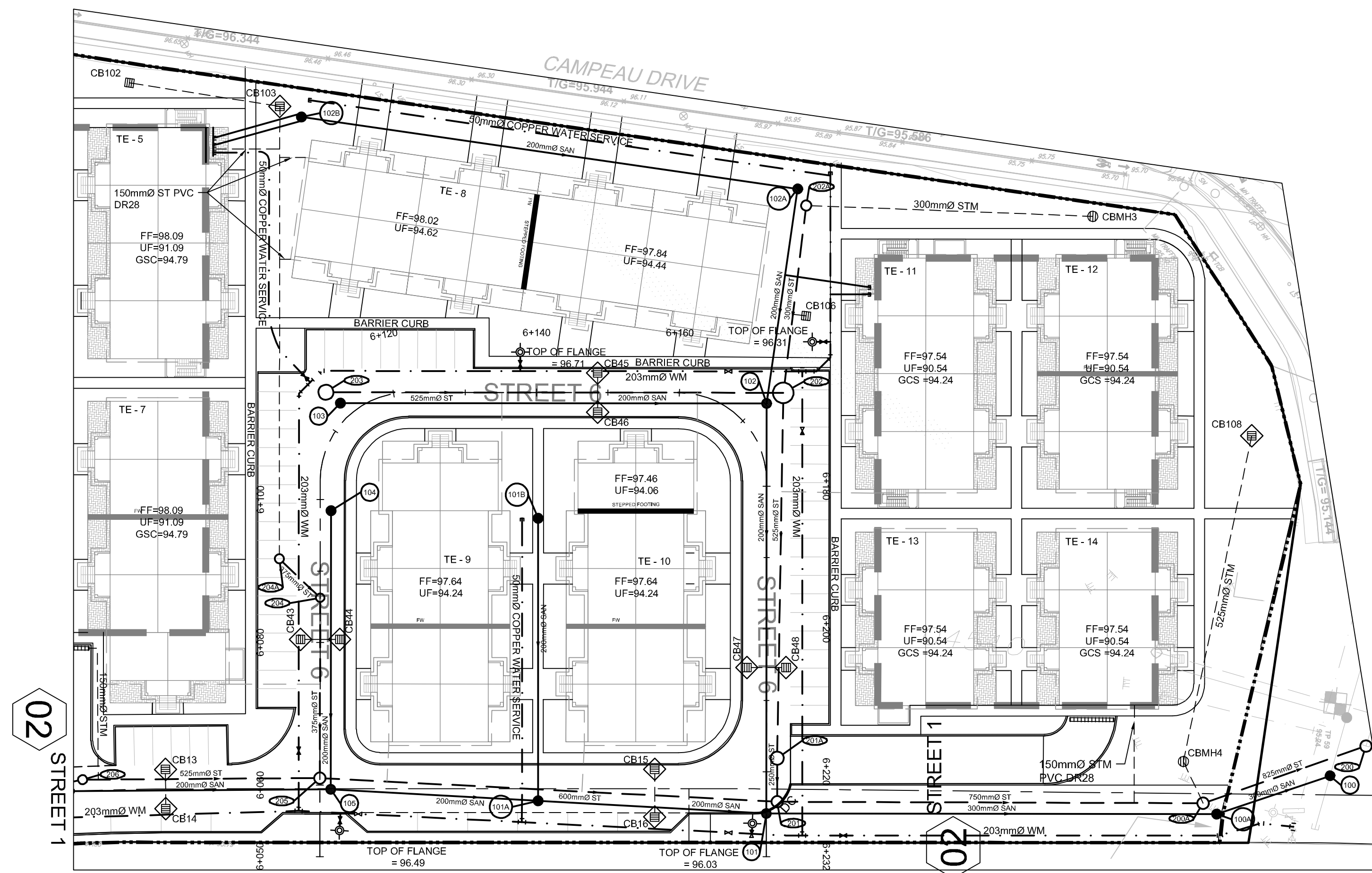
ARCADIA STAGE 6

450 HUNTMAR DRIVE

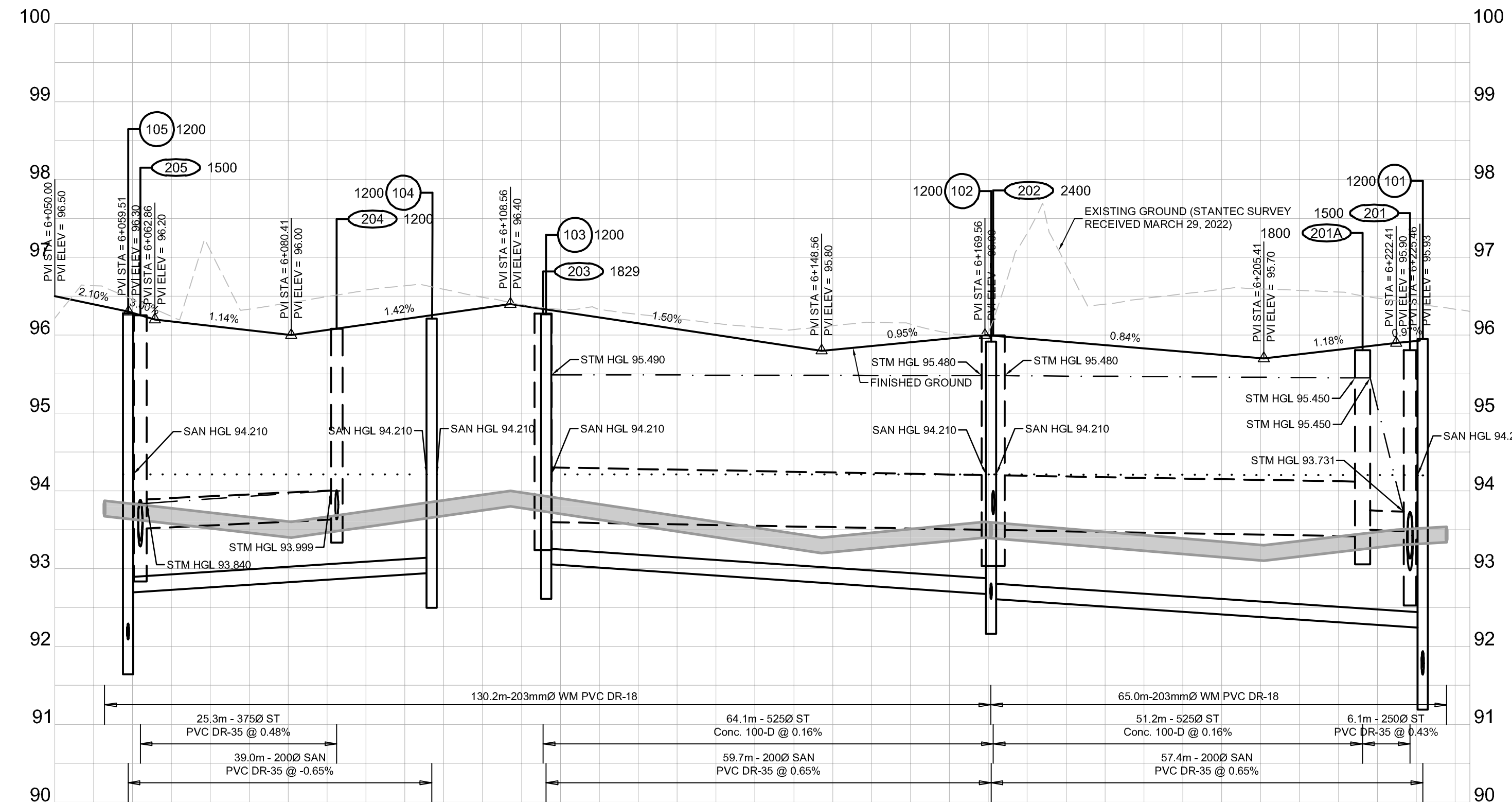
DRAWING:

PLAN & PROFILE  
STREET 5  
5+050 TO 5+211.97

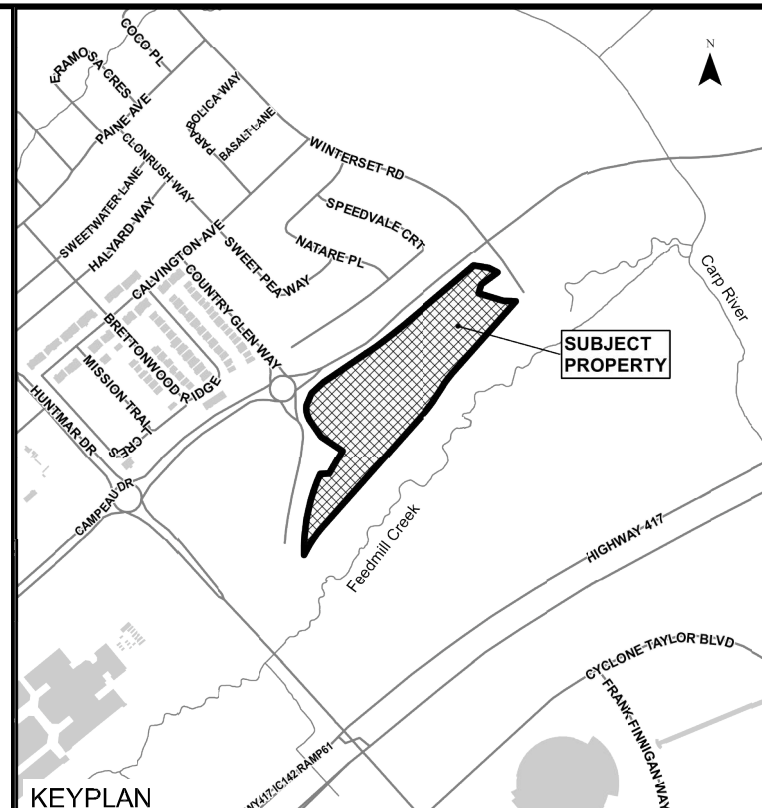
DESIGN: MM	DRAWING #:
DRAWN: KC	06
CHECKED: LD	
JLR #: 26299-006	



### STREET 6



STATION	DESCRIPTION	ELEVATION
6+050.00	DESIGN PROFILE ELEVATIONS	96.500
6+056.39	TEE	93.871
6+059.43	TEE	93.831
6+061.00	VALVE & VALVE BOX	93.692
6+064.85	VALVE & VALVE BOX	93.577
6+066.00	TEE	93.665
6+066.25	TEE	93.633
6+068.45	45° HORIZ. BEND	92.945
6+100.00	45° HORIZ. BEND	93.878
6+110.97	45° HORIZ. BEND	93.864
6+112.39	TEE	93.943
6+113.80	45° HORIZ. BEND	93.921
6+120.00	45° HORIZ. BEND	93.828
6+137.73	HYDRANT, VALVE & TEE	93.862
6+140.00	HYDRANT, VALVE & TEE	93.828
6+160.00	TEE	93.509
6+165.15	VALVE & VALVE BOX	93.598
6+170.31	TEE	93.884
6+170.83	TEE	93.885
6+174.52	VALVE & VALVE BOX	93.559
6+180.00	VALVE & VALVE BOX	93.513
6+200.00	TEE	93.345
6+218.10	TEE	93.504
6+220.00	TEE	93.504
6+225.84	TEE	93.477
6+228.92	TEE	92.238
6+231.90	TEE	93.888



- LEGEND:**
- EXISTING CATCH BASIN
  - PROPOSED CATCH BASIN 2x4x0
  - PROPOSED CATCH BASIN 4x6
  - PROPOSED TEE CATCH BASIN
  - PROPOSED 3-WAY CATCH BASIN
  - PROPOSED WATERMAIN, VALVE & HYDRANT
  - PROPOSED WATERMAIN REDUCER
  - EXISTING WATERMAIN, VALVE & HYDRANT
  - EXISTING SANITARY SEWER & MANHOLE
  - EXISTING STORM SEWER & MANHOLE
  - PROPOSED SANITARY SEWER & MANHOLE
  - PROPOSED STORM SEWER & MANHOLE
  - MANHOLE NUMBER AND SIZE (mm) CONCRETE PLATFORM PER CPD 04-030
  - 2 LATERAL - SERVICE CONNECTION (150 mm SAN, 19 mm Water)
  - 3 LATERAL - SERVICE CONNECTION (100mm ST, 150 SAN, 19 mm Water)
  - CONC. SIDEWALK
  - ASPHALT SIDEWALK
  - FW DENOTES FIRE WALL IN UNIT

01	ISSUED TO CITY FOR REVIEW FIRST ENGINEERING SUBMISSION	19/07/22
No.	ISSUE / REVISION	DD/MM/YY

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CLIENT:

CONSULTANT:

ENGINEERS · ARCHITECTS · PLANNERS

PROFESSIONAL STAMP	PROJECT NORTH
--------------------	---------------

PROJECT:

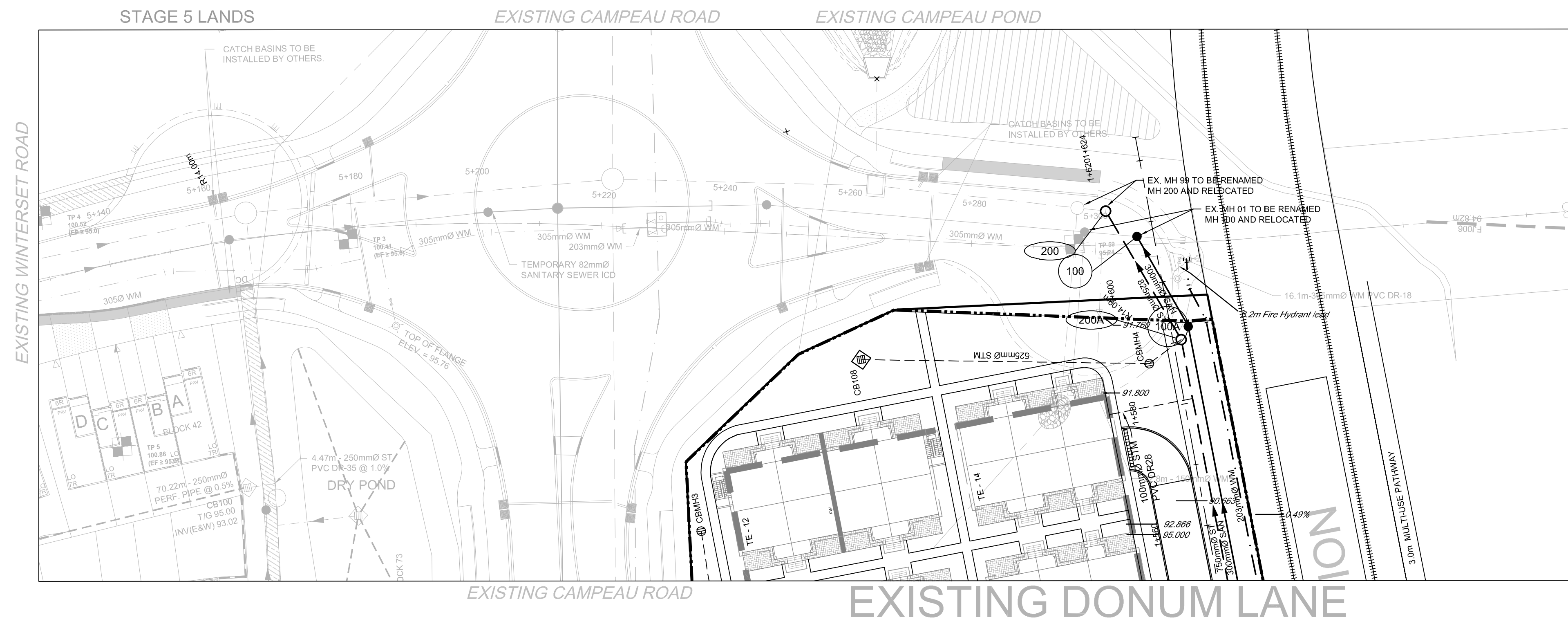
**ARCADIA STAGE 6**

450 HUNTMAR DRIVE

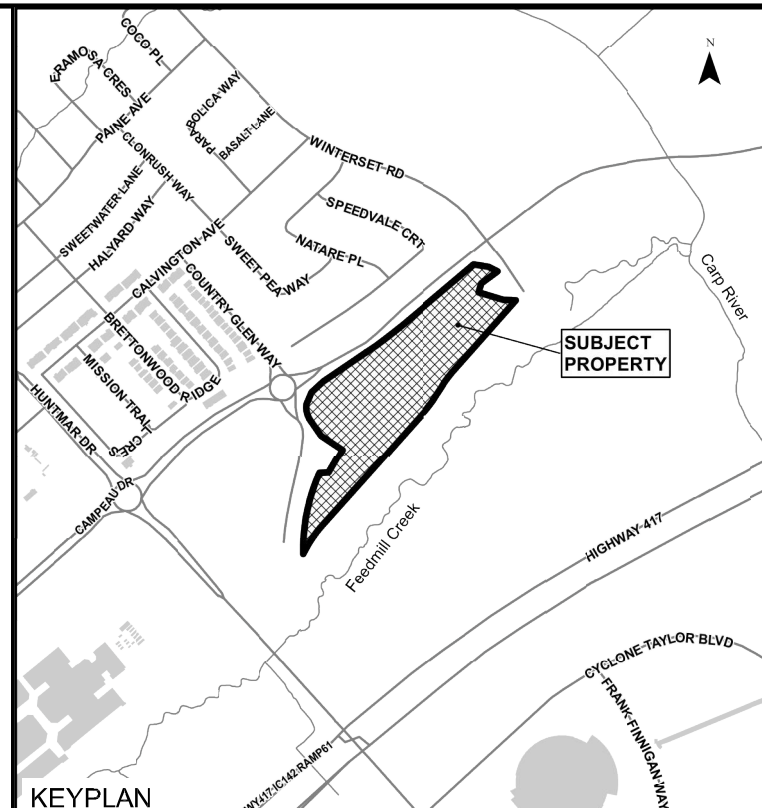
DRAWING:

**PLAN & PROFILE  
STREET 6  
6+050 TO 6+231.90**

DESIGN: MM	DRAWING #:
DRAWN: KC	
CHECKED: LD	<b>07</b>
JLR #: 26299-006	

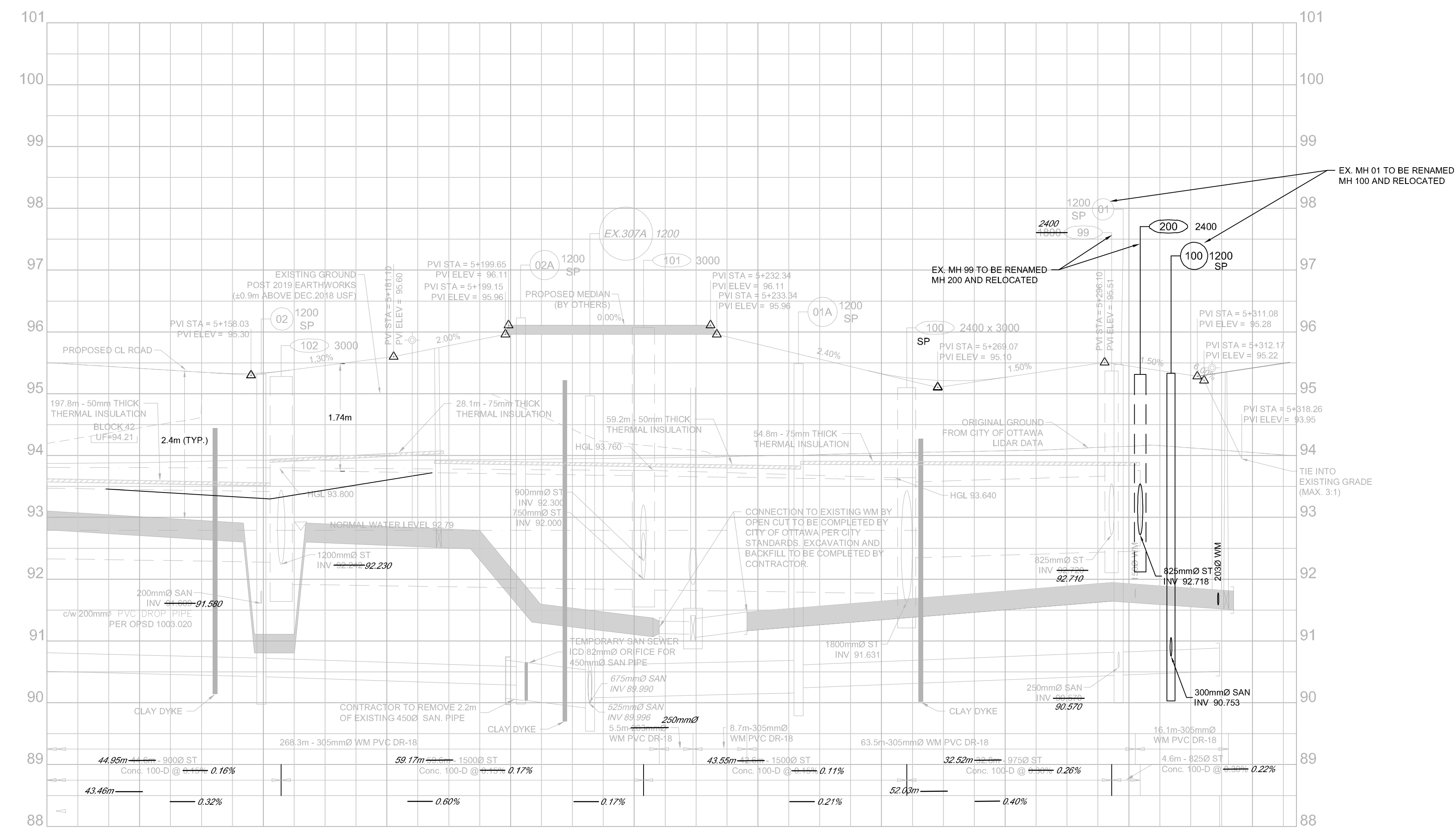


**AS CONSTRUCTED INFORMATION**  
 PROVIDED BY FIELD INSPECTOR  
 Date: DECEMBER 17, 2019  
 J.L. RICHARDS & ASSOCIATES LIMITED



**LEGEND:**

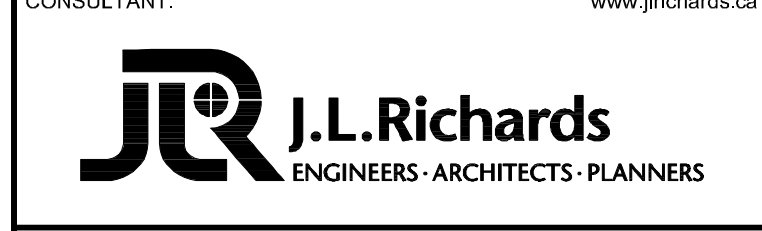
- PROPOSED CATCH BASIN ch-w/CD
- PROPOSED CLOSED COVER CATCH BASIN ch-w/CD OR CURB INLET CATCH BASIN (CAPPAMORE DRIVE)
- PROPOSED CATCH BASIN & LEAD
- PROPOSED ELBOW CATCH BASIN
- PROPOSED TEE CATCH BASIN
- PROPOSED 3-WAY CATCH BASIN
- 250mm PERFORATED PIPE AS PER CITY OF OTTAWA STANDARD DRAWING 529
- PROPOSED WATERMAN, VALVE & HYDRANT
- PROPOSED WATERMAN REDUCER
- EXISTING WATERMAN, VALVE & HYDRANT
- EXISTING SANITARY SEWER & MAINTENANCE HOLE
- EXISTING STORM SEWER & MAINTENANCE HOLE
- PROPOSED SANITARY SEWER & MAINTENANCE HOLE
- PROPOSED STORM SEWER & MAINTENANCE HOLE
- PROPOSED STORM SEWER & MAINTENANCE HOLE WITH SAFETY PLATFORM PER OPSD 4A420
- PROPOSED NOISE BARRIER
- SINGLE SERVICE CONNECTION (STORM, SANITARY AND WATER)
- DOUBLE SERVICE CONNECTION (STORM, SANITARY AND WATER)
- CONC. SIDEWALK
- ASPHALT SIDEWALK
- DENOTES FIRE WALL UNIT



DESIGN PROFILE ELEVATIONS	W.M. TOP ELEVATIONS	STORM SEWER INV. ELEVATION	SANITARY SEWER INV. ELEVATION	C.L. ROADWAY STATION
100.54	99.44	92.461	90.531	5+125.00
95.506	94.100	92.461	90.531	5+140.00
100.67	98.044	92.461	90.531	5+150.19
95.411	93.027	92.461	90.531	5+152.20
11.25° HORIZONTAL BEND				5+165.70
95.84				5+167.00
95.907				5+175.00
95.907				5+180.00
95.907				5+195.67
95.907				5+200.00
95.907				5+215.00
95.907				5+220.00
95.907				5+235.00
95.907				5+240.00
95.907				5+255.00
95.907				5+260.00
95.907				5+275.00
95.907				5+280.00
95.907				5+295.00
95.907				5+300.00
95.907				5+315.00
95.907				5+320.00
95.907				5+327.12

No.	ISSUE / REVISION	DD/MYY
01	ISSUED TO CITY FOR REVIEW FIRST ENGINEERING SUBMISSION	19/07/22

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PROJECT: **ARCADIA STAGE 6**  
 450 HUNTMAR DRIVE

DESIGN: MM  
 DRAWN: KC  
 CHECKED: LD  
 JLR #: 26299-006

DRAWING #: **08**



**LEGEND**

- PROPOSED ELEVATION
- EXISTING GROUND (STANTEC SURVEY RECEIVED MARCH 29, 2022)
- PROPOSED C.L. ROAD HIGH POINT / LOW POINT
- PROPOSED TERRACING (MAX 3:1)

**KEYPLAN**

- SURFACE SLOPE
- FLOW DIRECTION
- MAJOR OVERLAND FLOW DIRECTION
- FINISHED FLOOR ELEVATION
- UNDERSIDE OF FOOTING ELEVATION
- GCS = 94.34
- ASPHALT WALKWAY
- CONCRETE SURFACE (EXISTING)
- CONCRETE RISERS
- CONCRETE MOUNTABLE CURB
- DEPRESSED CURB
- BICYCLE RACK
- BOREHOLE NUMBER
- TEST PIT

01	ISSUED TO CITY FOR REVIEW FIRST ENGINEERING SUBMISSION	19/07/22
No.	ISSUE / REVISION	DDMMYY

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SCALE: 1:500

**CLIENT:**

**CONSULTANT:**

**CONSULTANT:**

**PROFESSIONAL STAMP**      **PROJECT NORTH**

**ARCADIA STAGE 6**

450 HUNTMAR DRIVE

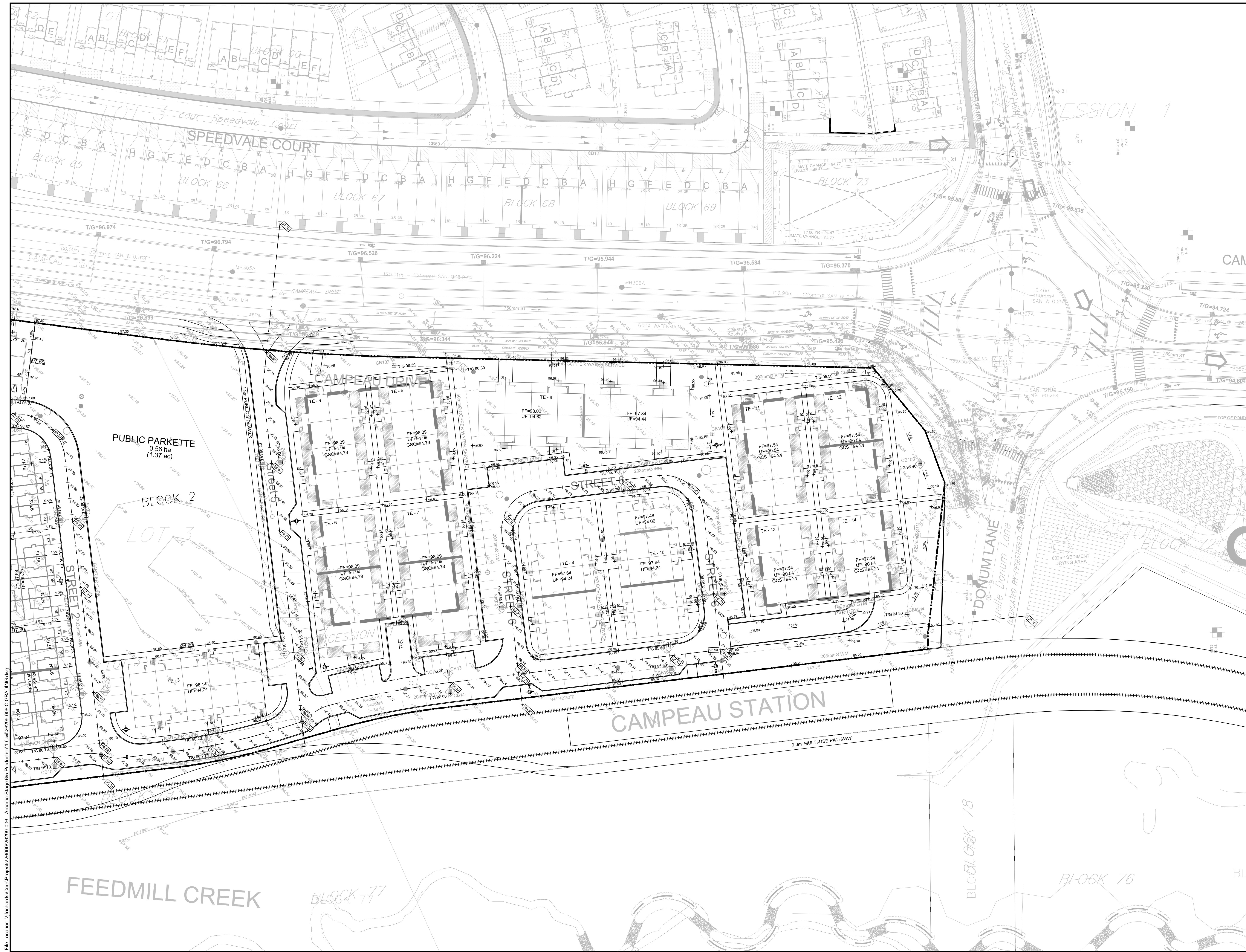
**DRAWING:**

**GRADING PLAN**

DESIGN: MM	DRAWING #:
DRAWN: KC	<b>G1</b>
CHECKED: LD	
JLR #: 26299-006	

File Location: \\jlrchard\Projects\26000\26299-006 - Arcadia Stage 6\5-Production\1-Civil\26299-006 C GRADING.dwg

PLOT DATE: July 19, 2022 10:20:03 AM



**LEGEND**

- PROPOSED ELEVATION
- EXISTING GROUND (STANTEC SURVEY RECEIVED MARCH 29, 2022)
- PROPOSED C/L ROAD HIGH POINT / LOW POINT
- PROPOSED TERRACING (MAX 3:1)
- SURFACE SLOPE
- FLOW DIRECTION
- MAJOR OVERLAND FLOW DIRECTION
- FINISHED FLOOR ELEVATION
- UNDERSIDE OF FOOTING ELEVATION
- GARAGE CEILING SLAB ELEVATION
- ASPHALT WALKWAY
- CONCRETE SURFACE (EXISTING)
- CONCRETE RISERS
- CONCRETE MOUNTAIN CURB
- DEPRESSED CURB
- BICYCLE RACK
- BOREHOLE NUMBER
- TEST PIT

**KEYPLAN**

01	ISSUED TO CITY FOR REVIEW FIRST ENGINEERING SUBMISSION	19/07/22
No.	ISSUE / REVISION	DDMMYY

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SCALE: 1:500

**CLIENT:**

**CONSULTANT:**

**CONSULTANT:**

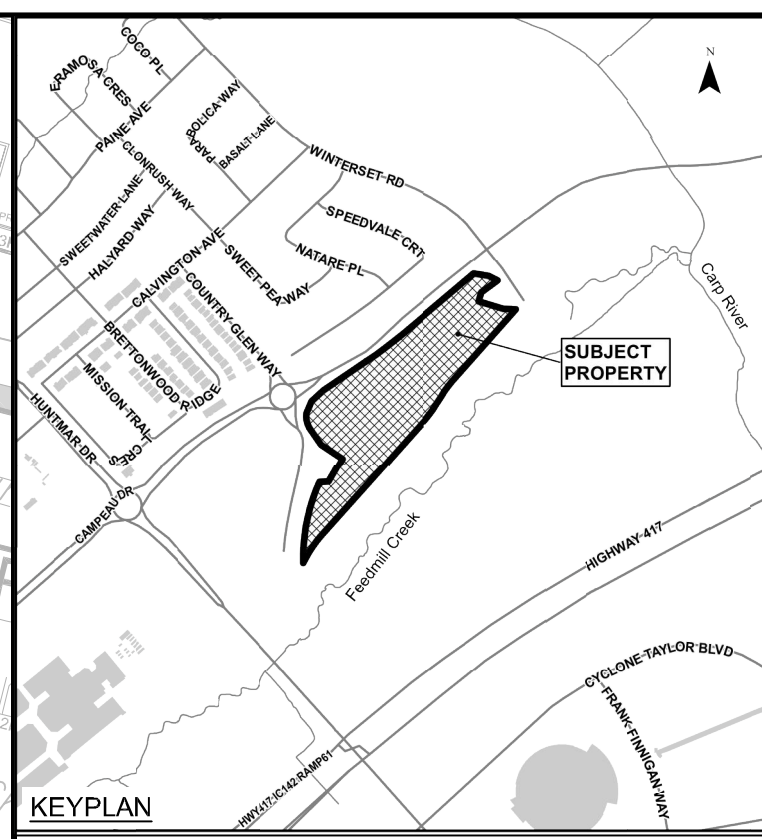
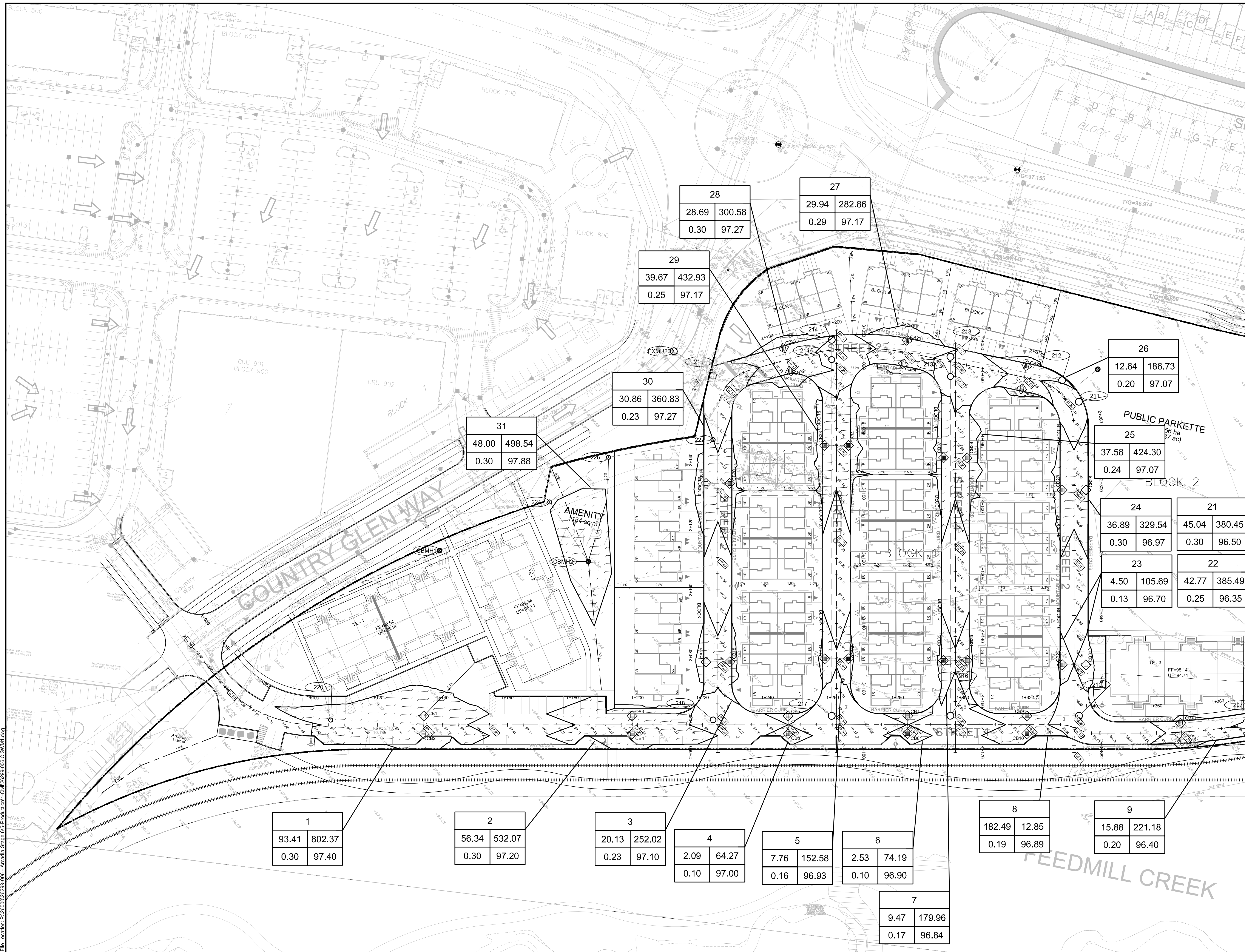
<b>PROFESSIONAL STAMP</b>	<b>PROJECT NORTH</b>

<b>PROJECT:</b>	<b>DRAWING:</b>
ARCADIA STAGE 6	GRADING PLAN
450 HUNTMAR DRIVE	

<b>DESIGN:</b> MM	<b>DRAWING #:</b>
<b>DRAWN:</b> KC	G2
<b>CHECKED:</b> LD	
<b>JLR #:</b> 26299-006	

File Location: \\jrichards\corp\projects\26000\26299-006 - Arcadia Stage 6\5-Production\1-Civil\26299-006-C GRADING.dwg

PLOT DATE: July 19, 2022 10:25:20 AM



LEGEND:

- MAXIMUM WATER LEVEL (STATIC)
- MAX. PONDING VOLUME (m³)
- AREA ID
- MAX. PONDING AREA (m²)
- MAX. WATER LEVEL (STATIC)
- PONDING DEPTH (STATIC)
- REAR YARD SWALE

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No.	ISSUE / REVISION	DD/MM/YY

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SCALE: 1:1000

CLIENT:

CONSULTANT:

J.L. Richards  
ENGINEERS - ARCHITECTS - PLANNERS

PROFESSIONAL STAMP

PROJECT NORTH

PROJECT:

ARCADIA STAGE 6

450 HUNTMAR DRIVE

DRAWING:

PONDING PLAN

DESIGN: MM

DRAWN: KC

CHECKED: LD

JLR #: 26299-006

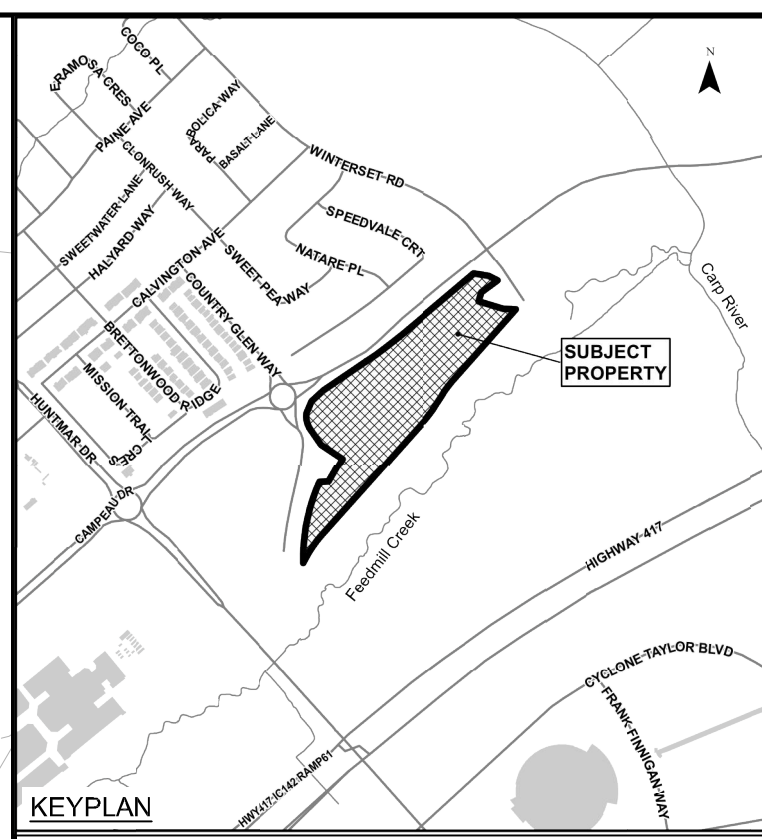
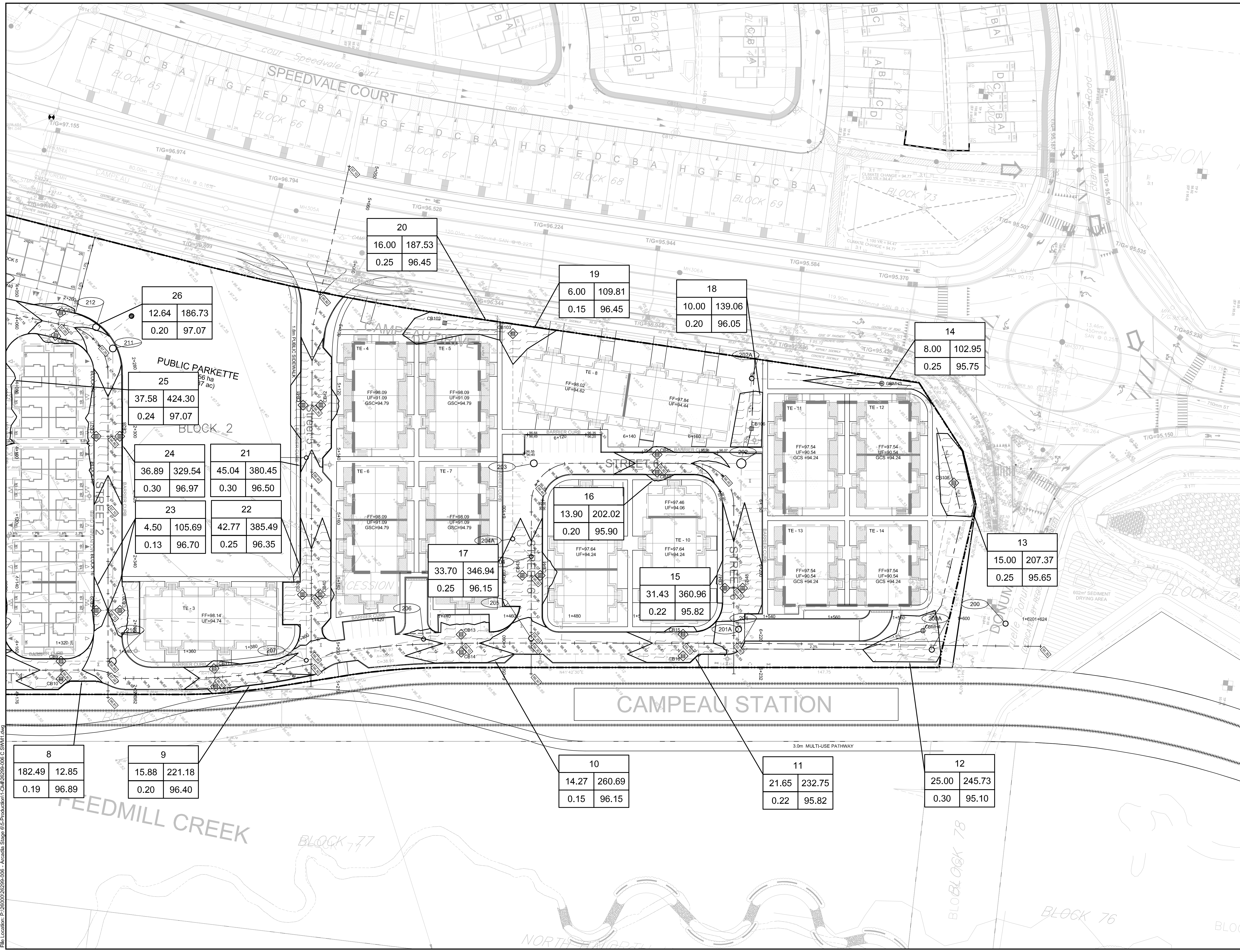
DRAWING #:

**SWM1**

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PLOT DATE: July 19, 2022 10:26:53 AM





**LEGEND:**

	MAXIMUM WATER LEVEL (STATIC)
	MAX. PONDING VOLUME (m³)
	MAX. PONDING AREA (m²)
	MAX. WATER LEVEL (STATIC)
	PONDING DEPTH (STATIC)
	REAR YARD SWALE

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CONSULTANT:

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PROFESSIONAL STAMP

PROJECT NORTH

PROJECT:

ARCADIA STAGE 6

450 HUNTMAR DRIVE

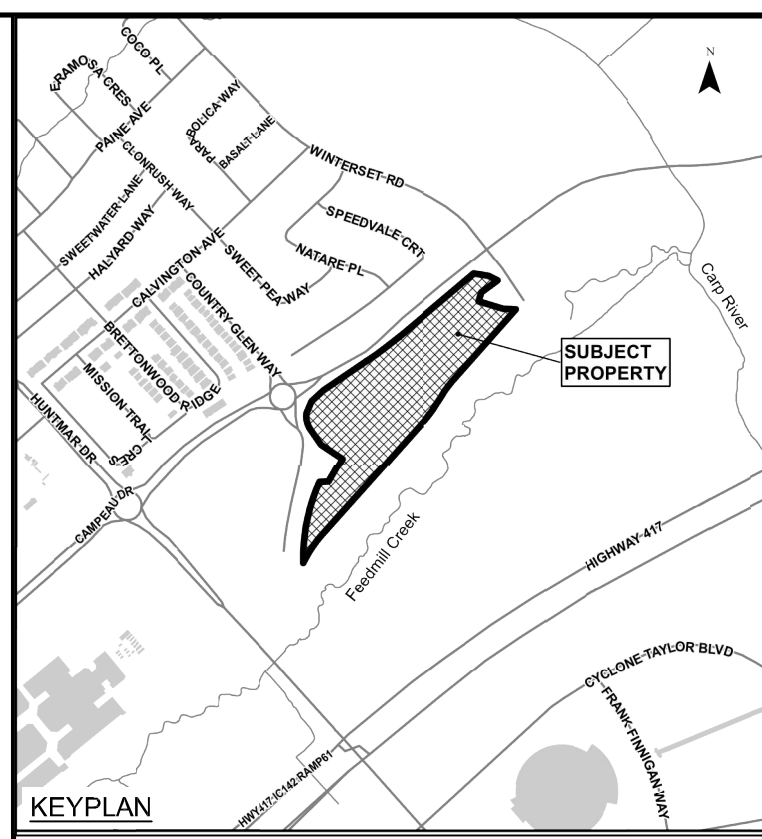
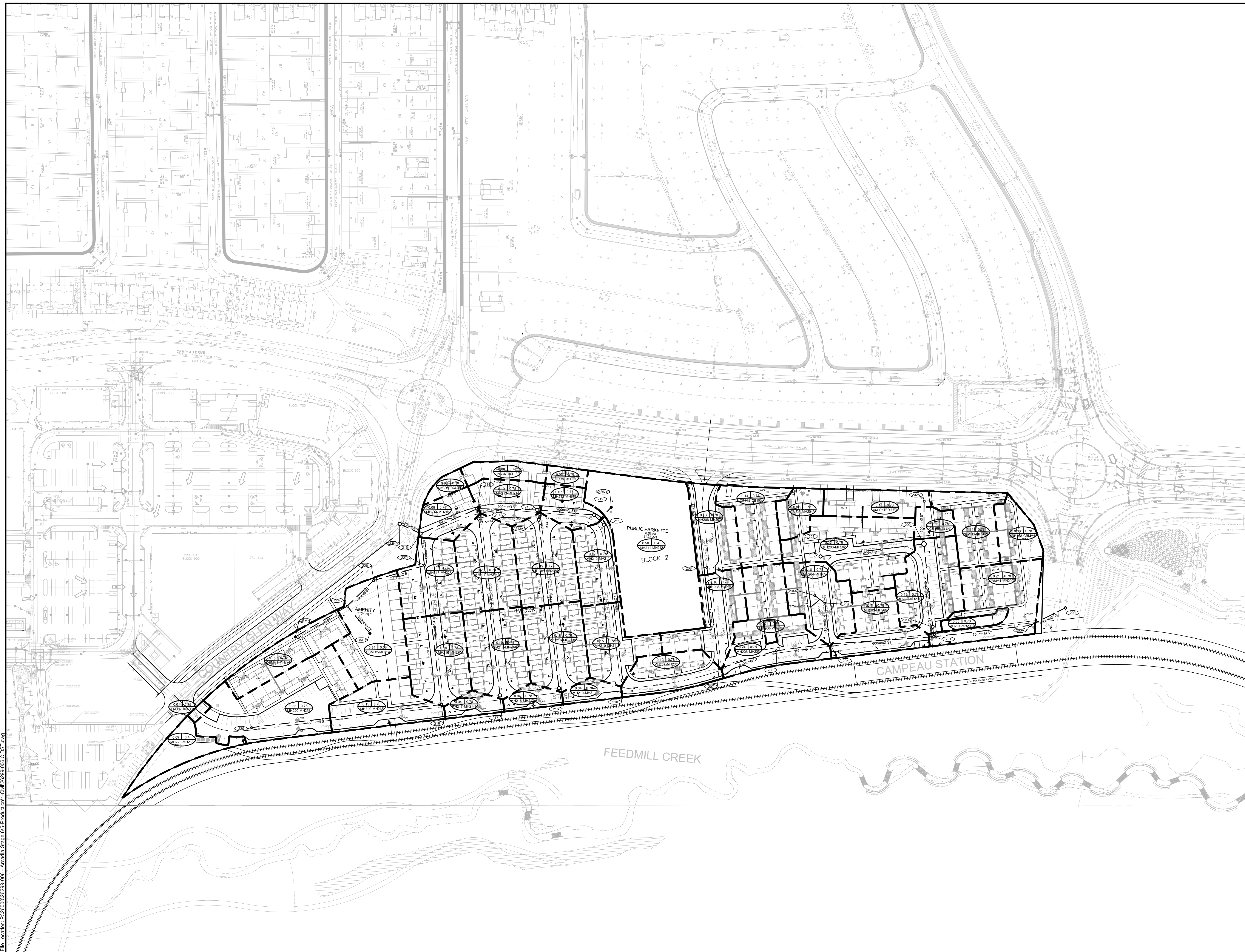
DRAWING:

PONDING PLAN

DESIGN:	MM	DRAWING #:	SWM2
DRAWN:	KC	JLR #:	26299-006
CHECKED:	LD		

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PLOT DATE: July 19, 2022 10:30:10 AM



- LEGEND:**
- STM DA BOUNDARY
  - PROPOSED STORM SEWER & MANHOLE
- POPULATION  
 SINGLE FAMILY: 3.4 PERS/UNIT  
 TOWHOUSE (ROW): 2.7 PERS/UNIT
- AREA IN HECTARES  
 POPULATION  
 PIPE REACH UPSTREAM MAINTENANCE HOLE  
 TO DOWNSTREAM MAINTENANCE HOLE  
 \*AS PER 2018 BSUEA MSS


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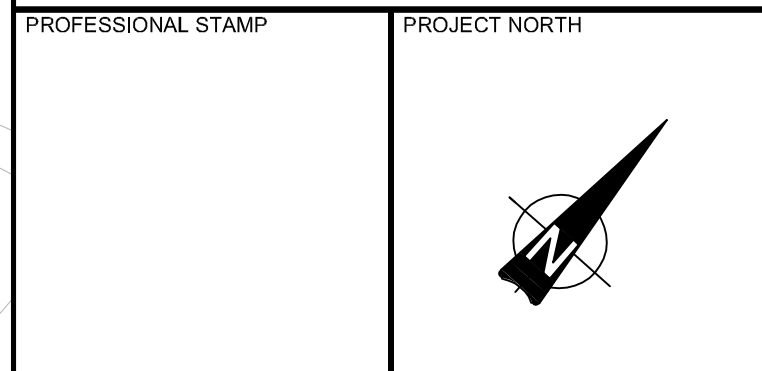
SCALE: 1:1000

CLIENT:

CONSULTANT:

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PROFESSIONAL STAMP	PROJECT NORTH
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PROJECT:

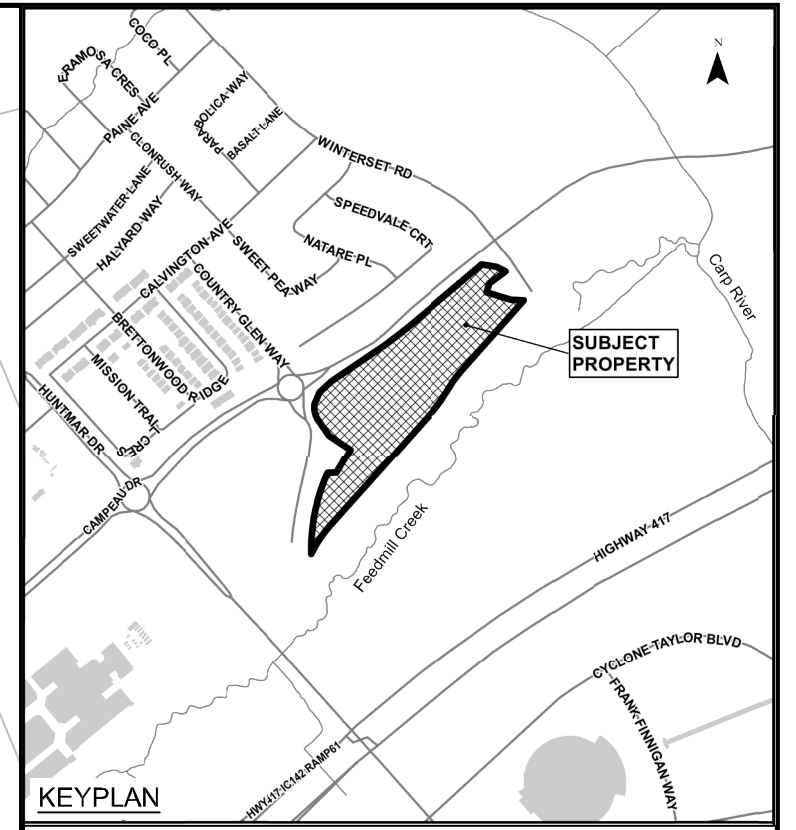
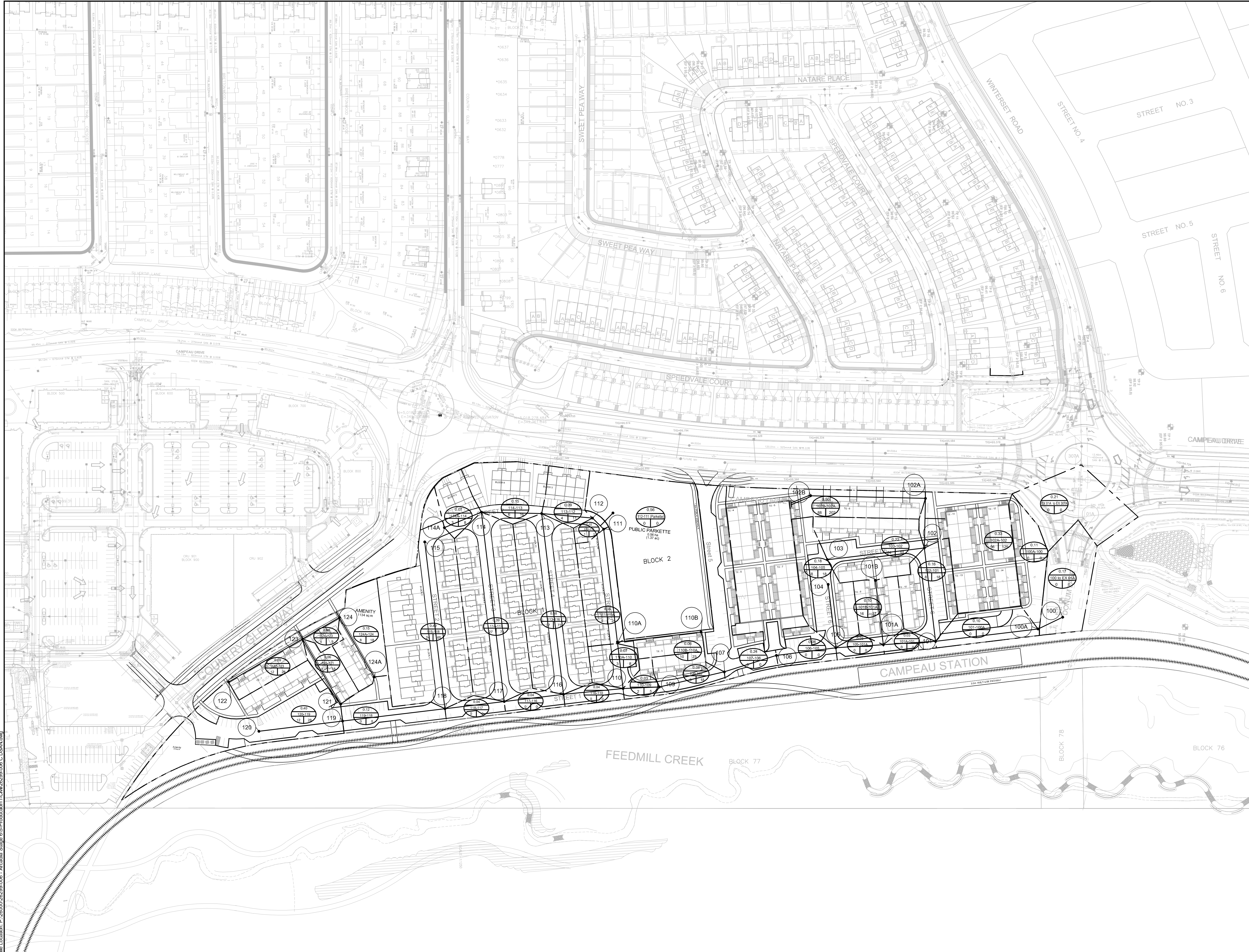
**ARCADIA STAGE 6**

450 HUNTMAR DRIVE

DRAWING:

**STORM DRAINAGE PLAN**

DESIGN: MM	DRAWING #:
DRAWN: KC	<b>DST</b>
CHECKED: LD	
JLR #: 26299-006	



- LEGEND:**
- SAN DA BOUNDARY
  - AREA IN HECTARES
  - PIPE REACH UPSTREAM MAINTENANCE HOLE TO DOWNSTREAM MAINTENANCE HOLE
  - POPULATION
  - NUMBER OF UNITS
- POPULATION  
SINGLE FAMILY: 3.4 PERS/UNIT  
TOWHOUSE (ROW) 2.7 PERS/UNIT
- PROPOSED SANITARY SEWER & MANHOLE

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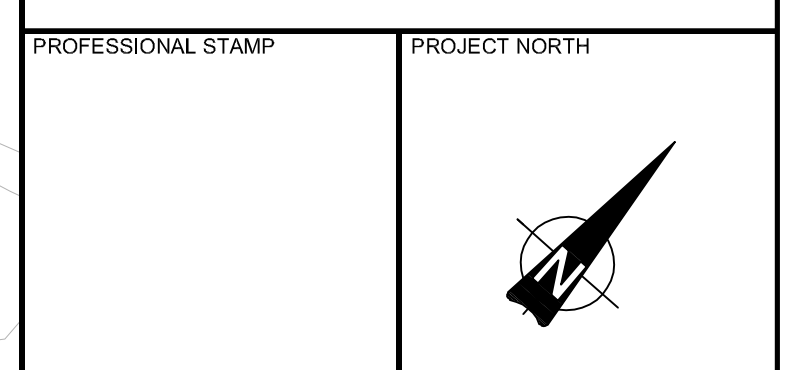
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CONSULTANT:



PROJECT:  
**ARCADIA STAGE 6**  
450 HUNTMAR DRIVE

DRAWING:  
**SANITARY DRAINAGE PLAN**

DESIGN: MM	DRAWING #: <b>DSAN</b>
DRAWN: KC	
CHECKED: LD	
JLR #: 26299-006	

File Location: P:\26299-006 - Arcadia Stage 6\5-Production\1\_Civil\26299-006\_C\_DSAN.dwg

PLOT DATE: July 19, 2022 10:32:31AM

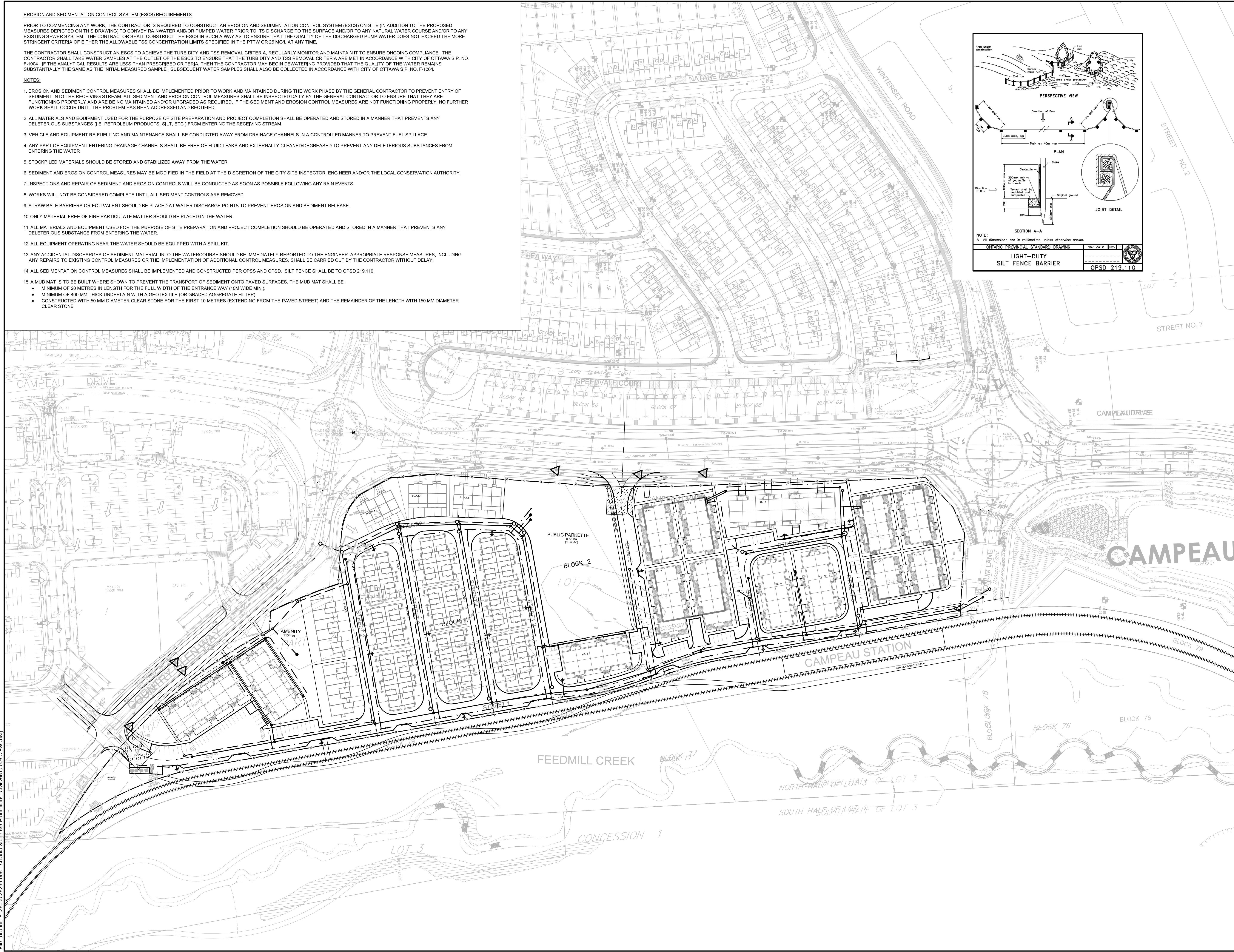
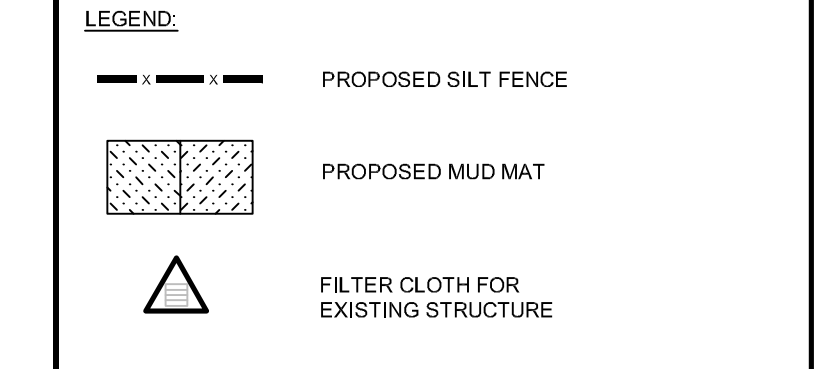
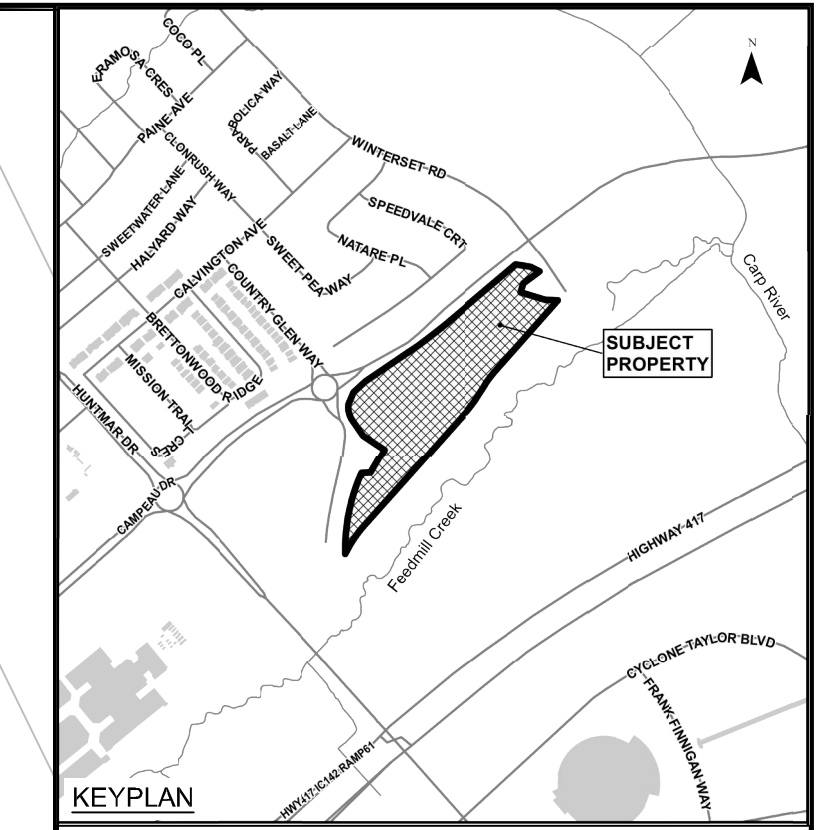
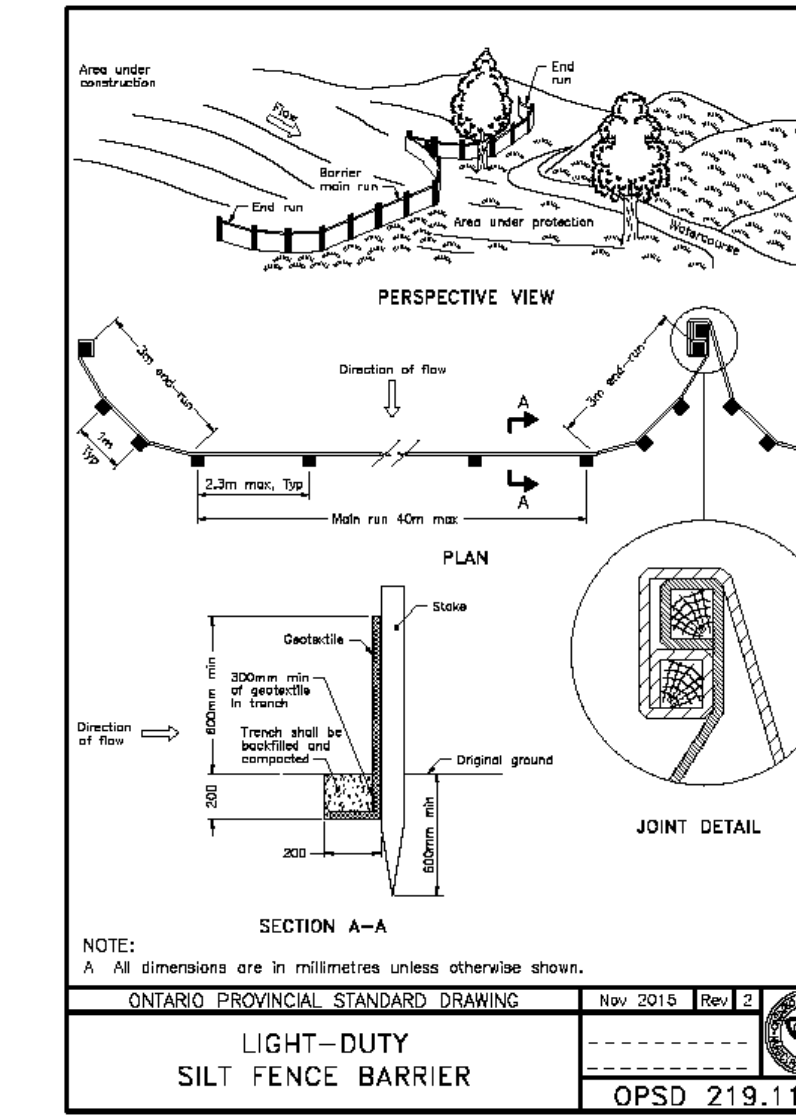
**EROSION AND SEDIMENTATION CONTROL SYSTEM (ESCS) REQUIREMENTS**

PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR IS REQUIRED TO CONSTRUCT AN EROSION AND SEDIMENTATION CONTROL SYSTEM (ESCS) ON-SITE (IN ADDITION TO THE PROPOSED MEASURES DEPICTED ON THIS DRAWING) TO CONVEY RAINWATER AND/OR PUMPED WATER PRIOR TO ITS DISCHARGE TO THE SURFACE AND/OR TO ANY NATURAL WATER COURSE AND/OR TO ANY EXISTING SEWER SYSTEM. THE CONTRACTOR SHALL CONSTRUCT THE ESCS IN SUCH A WAY AS TO ENSURE THAT THE QUALITY OF THE DISCHARGED PUMP WATER DOES NOT EXCEED THE MORE STRINGENT CRITERIA OF EITHER THE ALLOWABLE TSS CONCENTRATION LIMITS SPECIFIED IN THE PTTW OR 25 MG/L AT ANY TIME.

THE CONTRACTOR SHALL CONSTRUCT AN ESCS TO ACHIEVE THE TURBIDITY AND TSS REMOVAL CRITERIA. REGULARLY MONITOR AND MAINTAIN IT TO ENSURE ONGOING COMPLIANCE. THE CONTRACTOR SHALL TAKE WATER SAMPLES AT THE OUTLET OF THE ESCS TO ENSURE THAT THE TURBIDITY AND TSS REMOVAL CRITERIA ARE MET IN ACCORDANCE WITH CITY OF OTTAWA S.P. NO. F-1004. IF THE ANALYTICAL RESULTS ARE LESS THAN PRESCRIBED CRITERIA, THEN THE CONTRACTOR MAY BEGIN DEWATERING PROVIDED THAT THE QUALITY OF THE WATER REMAINS SUBSTANTIALLY THE SAME AS THE INITIAL MEASURED SAMPLE. SUBSEQUENT WATER SAMPLES SHALL ALSO BE COLLECTED IN ACCORDANCE WITH CITY OF OTTAWA S.P. NO. F-1004.

**NOTES:**

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO WORK AND MAINTAINED DURING THE WORK PHASE BY THE GENERAL CONTRACTOR TO PREVENT ENTRY OF SEDIMENT INTO THE RECEIVING STREAM. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED DAILY BY THE GENERAL CONTRACTOR TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY AND ARE BEING MAINTAINED AND/OR UPGRADED AS REQUIRED. IF THE SEDIMENT AND EROSION CONTROL MEASURES ARE NOT FUNCTIONING PROPERLY, NO FURTHER WORK SHALL OCCUR UNTIL THE PROBLEM HAS BEEN ADDRESSED AND RECTIFIED.
2. ALL MATERIALS AND EQUIPMENT USED FOR THE PURPOSE OF SITE PREPARATION AND PROJECT COMPLETION SHALL BE OPERATED AND STORED IN A MANNER THAT PREVENTS ANY DELETERIOUS SUBSTANCES (I.E. PETROLEUM PRODUCTS, SILT, ETC.) FROM ENTERING THE RECEIVING STREAM.
3. VEHICLE AND EQUIPMENT RE-FUELLING AND MAINTENANCE SHALL BE CONDUCTED AWAY FROM DRAINAGE CHANNELS IN A CONTROLLED MANNER TO PREVENT FUEL SPILLAGE.
4. ANY PART OF EQUIPMENT ENTERING DRAINAGE CHANNELS SHALL BE FREE OF FLUID LEAKS AND EXTERNALLY CLEANED/DEGREASED TO PREVENT ANY DELETERIOUS SUBSTANCES FROM ENTERING THE WATER.
5. STOCKPILED MATERIALS SHOULD BE STORED AND STABILIZED AWAY FROM THE WATER.
6. SEDIMENT AND EROSION CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY SITE INSPECTOR, ENGINEER AND/OR THE LOCAL CONSERVATION AUTHORITY.
7. INSPECTIONS AND REPAIR OF SEDIMENT AND EROSION CONTROLS WILL BE CONDUCTED AS SOON AS POSSIBLE FOLLOWING ANY RAIN EVENTS.
8. WORKS WILL NOT BE CONSIDERED COMPLETE UNTIL ALL SEDIMENT CONTROLS ARE REMOVED.
9. STRAW BALE BARRIERS OR EQUIVALENT SHOULD BE PLACED AT WATER DISCHARGE POINTS TO PREVENT EROSION AND SEDIMENT RELEASE.
10. ONLY MATERIAL FREE OF FINE PARTICULATE MATTER SHOULD BE PLACED IN THE WATER.
11. ALL MATERIALS AND EQUIPMENT USED FOR THE PURPOSE OF SITE PREPARATION AND PROJECT COMPLETION SHOULD BE OPERATED AND STORED IN A MANNER THAT PREVENTS ANY DELETERIOUS SUBSTANCE FROM ENTERING THE WATER.
12. ALL EQUIPMENT OPERATING NEAR THE WATER SHOULD BE EQUIPPED WITH A SPILL KIT.
13. ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO THE WATERCOURSE SHOULD BE IMMEDIATELY REPORTED TO THE ENGINEER. APPROPRIATE RESPONSE MEASURES, INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.
14. ALL SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED AND CONSTRUCTED PER OPS5 AND OPSD. SILT FENCE SHALL BE TO OPSD 219.110.
15. A MUD MAT IS TO BE BUILT WHERE SHOWN TO PREVENT THE TRANSPORT OF SEDIMENT ONTO PAVED SURFACES. THE MUD MAT SHALL BE:
  - MINIMUM OF 20 METRES IN LENGTH FOR THE FULL WIDTH OF THE ENTRANCE WAY (10M WIDE MIN.);
  - MINIMUM OF 400 MM THICK UNDERLAIN WITH A GEOTEXTILE (OR GRADED AGGREGATE FILTER)
  - CONSTRUCTED WITH 50 MM DIAMETER CLEAR STONE FOR THE FIRST 10 METRES (EXTENDING FROM THE PAVED STREET) AND THE REMAINDER OF THE LENGTH WITH 150 MM DIAMETER CLEAR STONE



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PROFESSIONAL STAMP

PROJECT NORTH

PROJECT:

**ARCADIA STAGE 6**

450 HUNTMAR DRIVE

DRAWING:

**EROSION AND SEDIMENT CONTROL PLAN**

DESIGN: MM	DRAWING #:
DRAWN: KC	<b>ESC</b>
CHECKED: LD	
JLR #: 26299-006	

