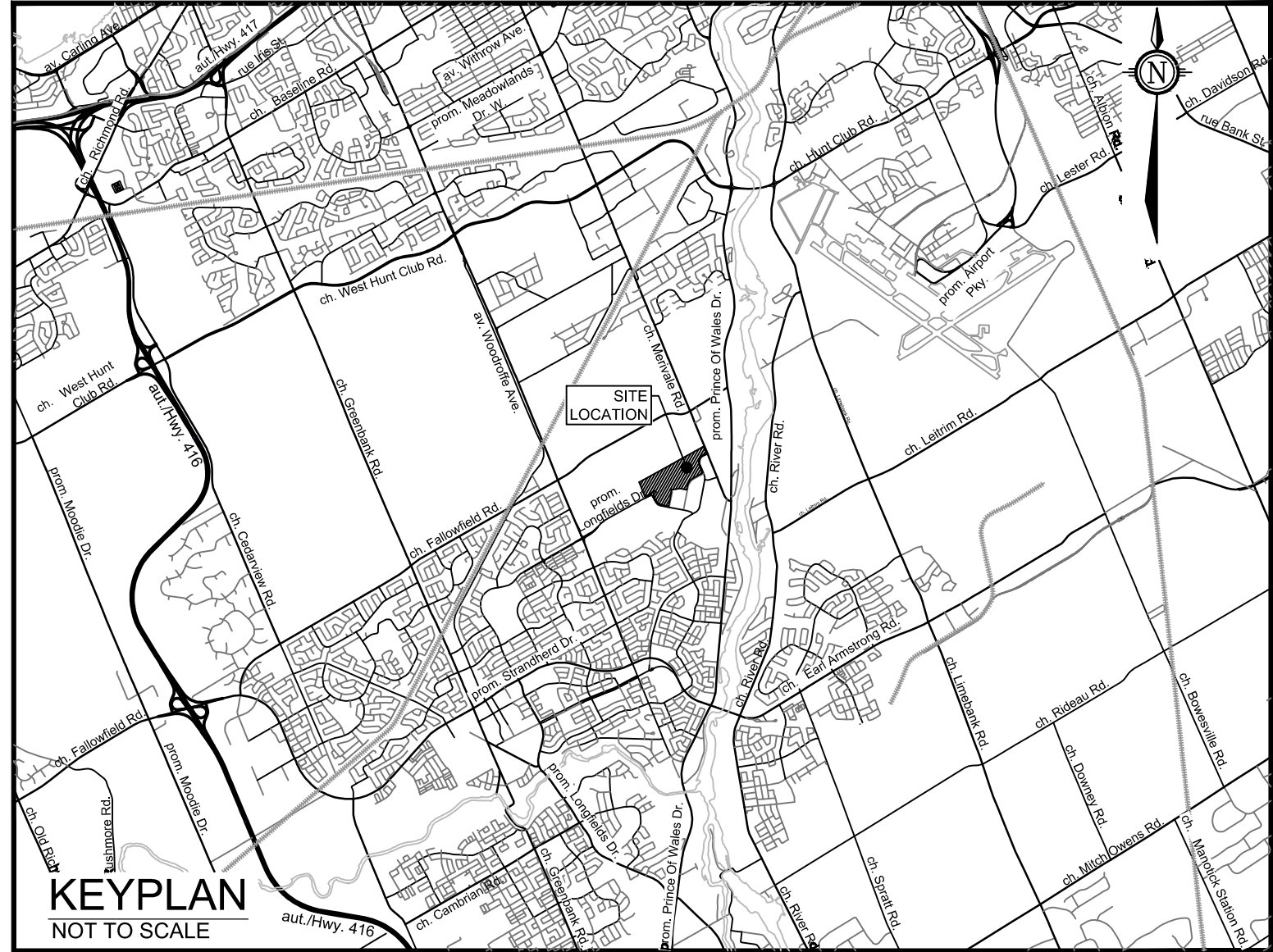


SORTATION FACILITY

99 BILL LEATHEN DR, 2 & 20 LEIKIN DR,
CITY OF OTTAWA

ROADS, SEWERS AND WATERMAINS



PROJECT No. 121137

ISSUED FOR SITE PLAN APPROVAL

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121137-ESC	EROSION AND SEDIMENT CONTROL PLAN

GENERAL NOTES:

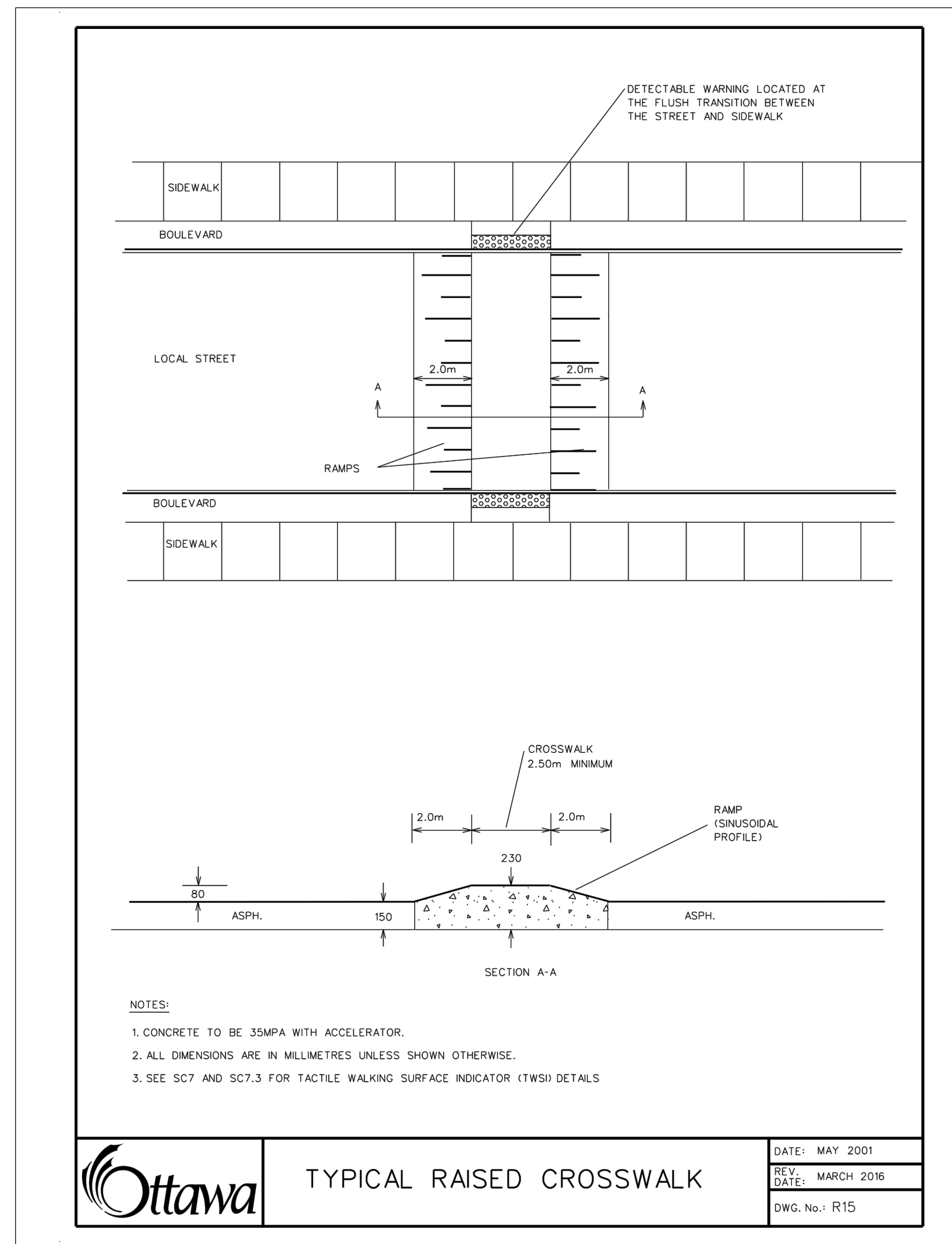
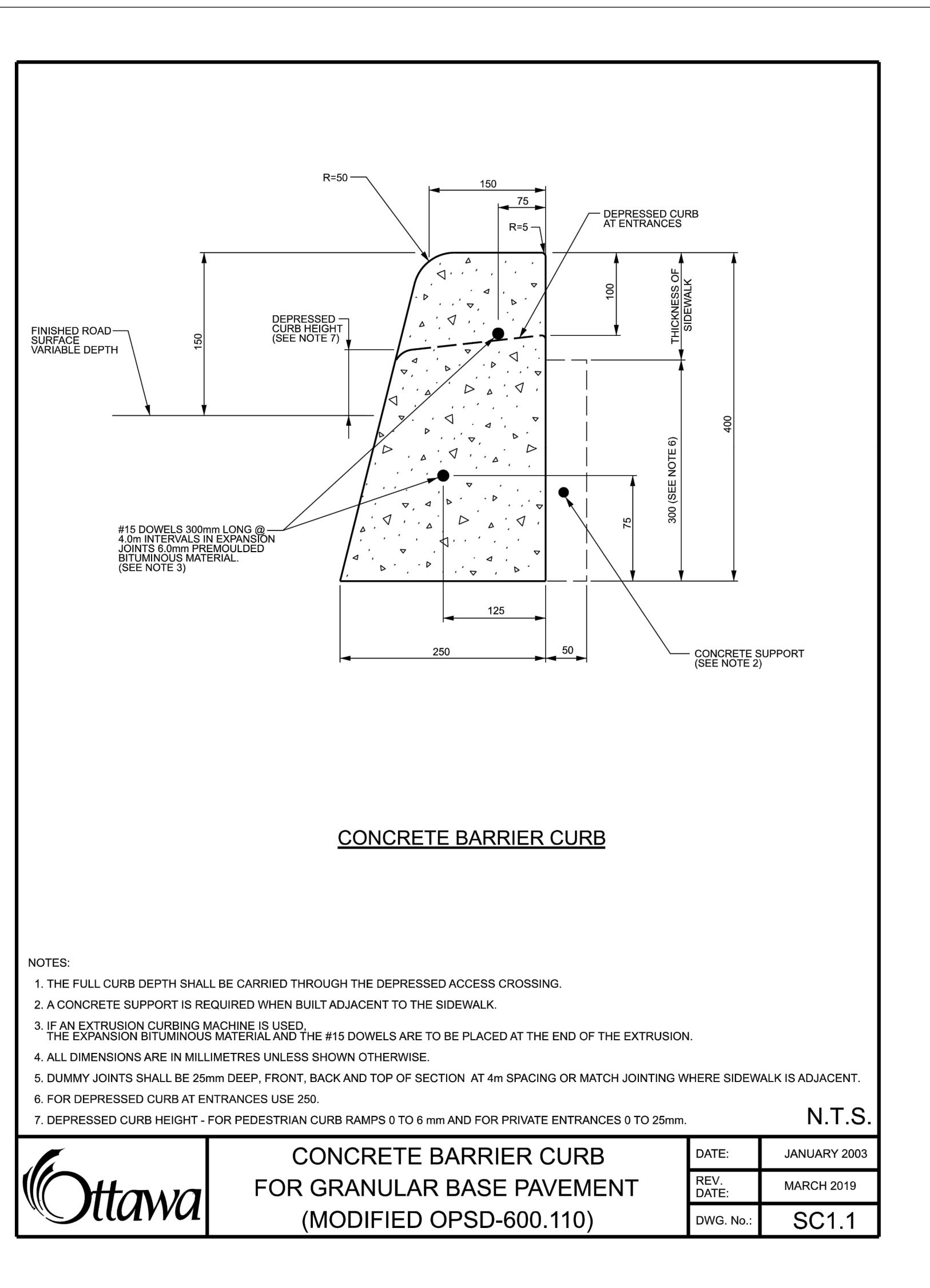
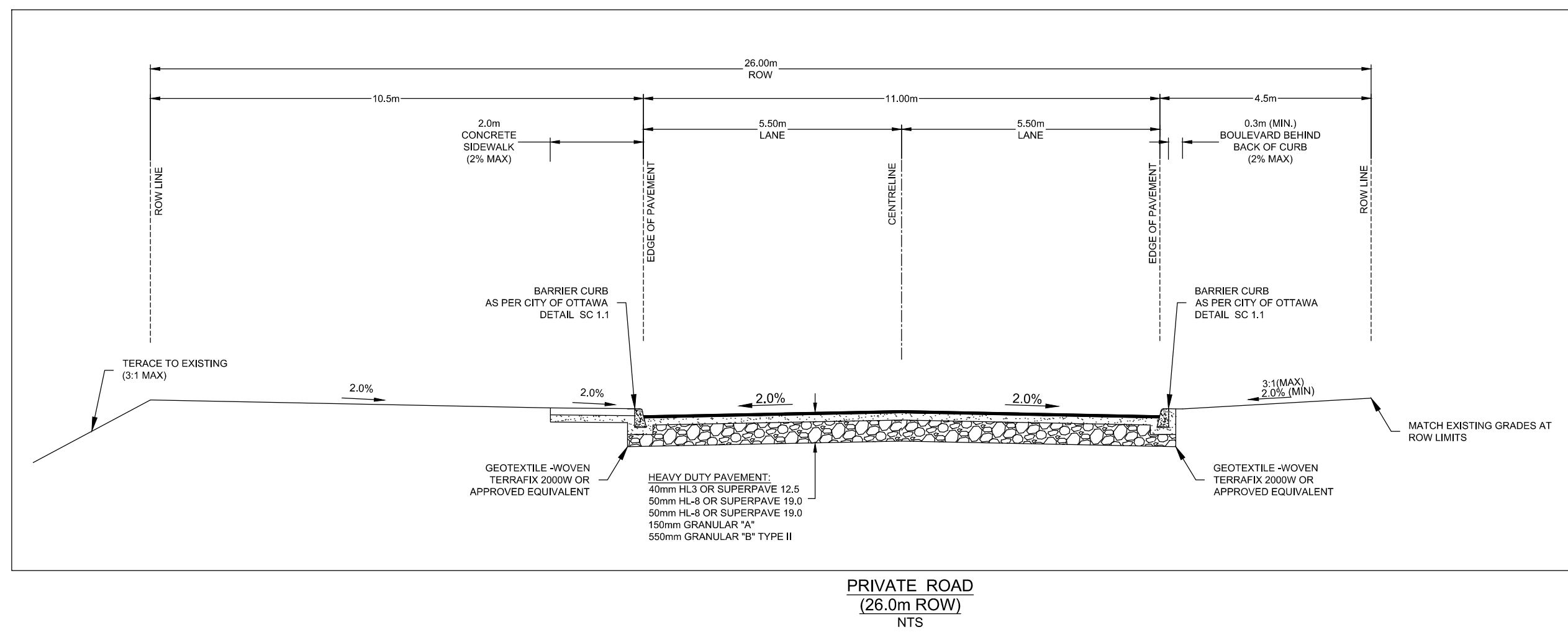
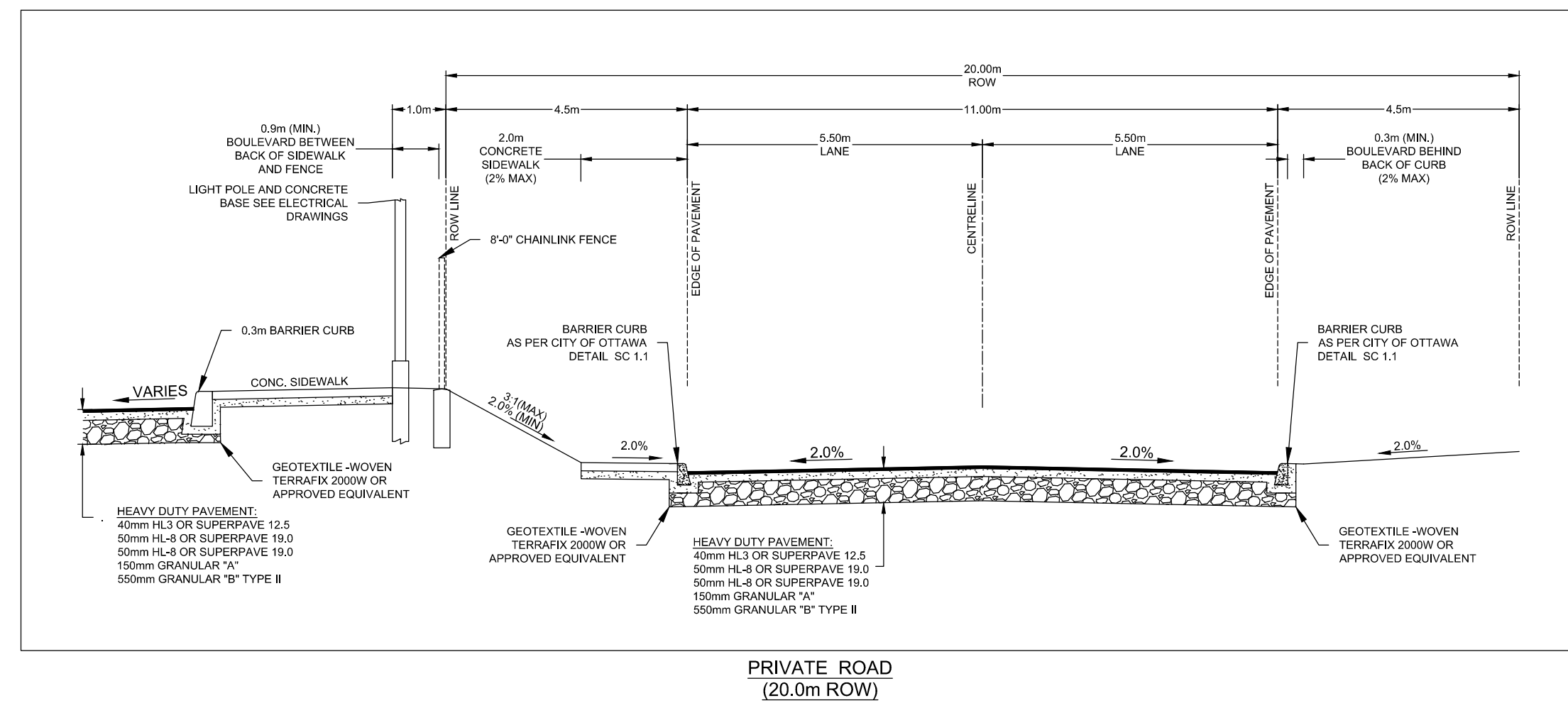
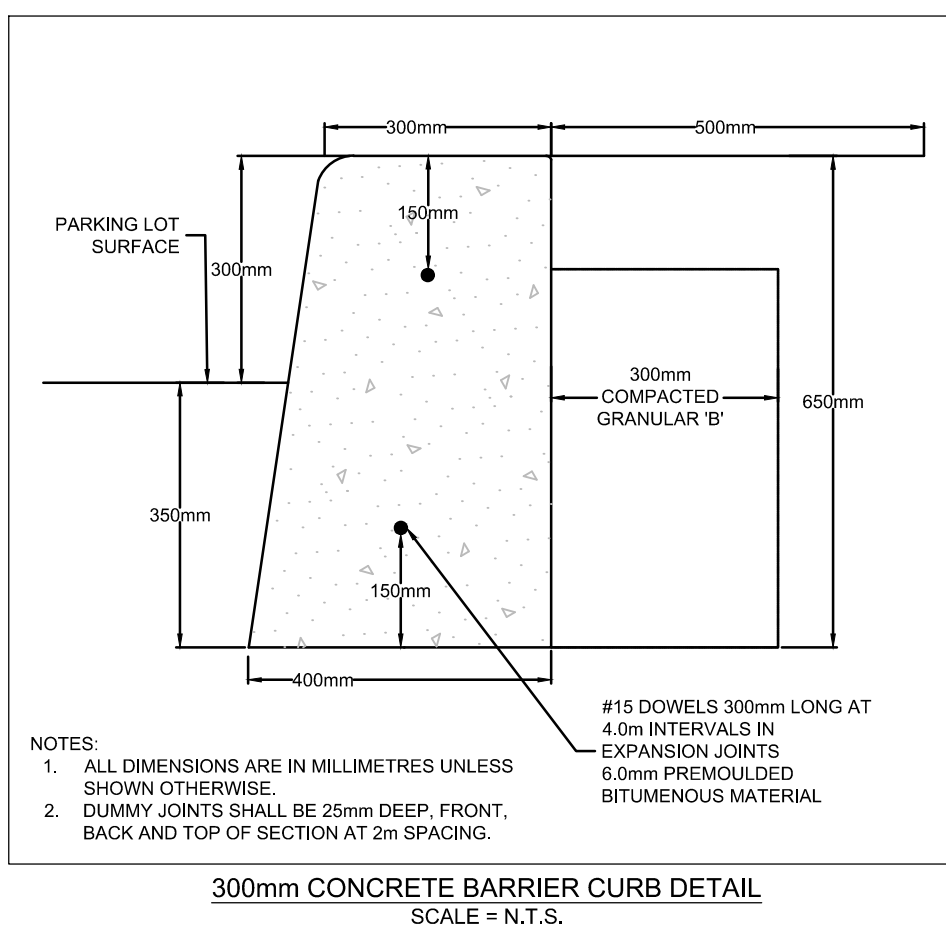
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
- OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.
- BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$2,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
- RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF MUNICIPAL AUTHORITIES.
- REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
- ALL ELEVATIONS ARE GEODETIC. THE SITE BENCHMARKS ARE THE FIRE HYDRANT TOP OF SPINDLE FOR THE 3 HYDRANTS AROUND THE OTTIGATE DRIVE AND CROSSKEY PLACE ROUNDABOUT (BM NO. 1 ELEV = 99.51, BM NO. 2 ELEV = 99.29, BM NO. 3 ELEV = 98.87). REFER TO ANNIS, O'SULLIVAN, VOLLEBEKK LTD. TOPOGRAPHICAL PLAN OF SURVEY OF BLOCK 13, REGISTERED PLAN 4M-1538, CITY OF OTTAWA.
- REFER TO GEOTECHNICAL INVESTIGATION REPORT NO. --- (DATED ---) PREPARED BY --- FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL.
- REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARD SURFACE AREAS AND DIMENSIONS.
- REFER TO THE STORMWATER MANAGEMENT REPORT No. R-2021-076, DATED MAY 31, 2021 PREPARED BY NOVATECH.
- SAW CUT AND KEYGRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10 AND R25).

GRADING NOTES:

- ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE PROPOSED BUILDING AND PAVED AREAS.
- EXPOSED SUBGRADES IN PROPOSED PAVED AREAS SHOULD BE PROOF ROLLED WITH A LARGE STEEL DRUM ROLLER AND ANY SOFT AREAS EVIDENT FROM THE PROOF ROLLING SHOULD BE SUBEXCAVATED AND REPLACED WITH SUITABLE MATERIAL THAT IS FROST COMPATIBLE WITH THE EXISTING SOILS.
- THE PAVEMENT GRANULAR BASE AND SUBBASE SHOULD BE PLACED IN MAXIMUM 300mm THICK LIFTS AND COMPACTED TO A MINIMUM OF 98% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE.
- ALL CURBS AND SIDEWALKS TO BE BUILT AS PER CITY OF OTTAWA DETAIL DRAWINGS SC1.4 AND SC4.
- GRADE AND/OR FILL BEHIND PROPOSED CURB AND BETWEEN BUILDINGS AND CURBS, WHERE REQUIRED TO PROVIDE POSITIVE DRAINAGE.
- MINIMUM OF 2% GRADE FOR ALL GRASS AREAS UNLESS OTHERWISE NOTED.
- ALL GRADES BY CURBS ARE EDGE OF PAVEMENT GRADES UNLESS OTHERWISE INDICATED.
- REFER TO LANDSCAPE PLAN FOR PLANTING AND OTHER LANDSCAPE FEATURE DETAILS.
- CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GRADING PLAN INDICATING THE AS-BUILT ELEVATION OF EVERY DESIGN GRADE SHOWN ON THIS PLAN.

PAVEMENT STRUCTURES:

- LIGHT DUTY (CAR PARKING AREAS ONLY)**
50mm HL3 OR SUPERPAVE 12.5
150mm GRAN "A"
450mm GRAN "B" TYPE II
SEPARATION LAYER - WOVEN GEOTEXTILE TERRAFIX 200W OR APPROVED EQUIVALENT
- HEAVY DUTY (ACCESS LANES AND HEAVY TRUCK PARKING)**
40mm HL3 OR SUPERPAVE 12.5
50mm HL8 OR SUPERPAVE 19.0
50mm HL8 OR SUPERPAVE 19.0
150mm GRAN "A"
550mm GRAN "B" TYPE II
SEPARATION LAYER - WOVEN GEOTEXTILE TERRAFIX 200W OR APPROVED EQUIVALENT
- CONCRETE APRONS**
200mm CONCRETE
150mm GRAN "A"
600mm GRAN "B" TYPE II
100mm HI-40 RIGID INSULATION [DIRECTLY UNDER CONCRETE APRON]
75mm HI-60 RIGID INSULATION [0 - 1.2m BEYOND EDGE OF APRON]
50mm HI-60 RIGID INSULATION [1.2 - 2.4m BEYOND EDGE OF APRON]
25mm HI-60 RIGID INSULATION [2.4 - 3.6m BEYOND EDGE OF APRON]



NOVATECH ENGINEERING INC. 121137-NDGR - May 31, 2021 - 3:45pm - 121137-NDGR

NOTE:
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NOT FOR CONSTRUCTION

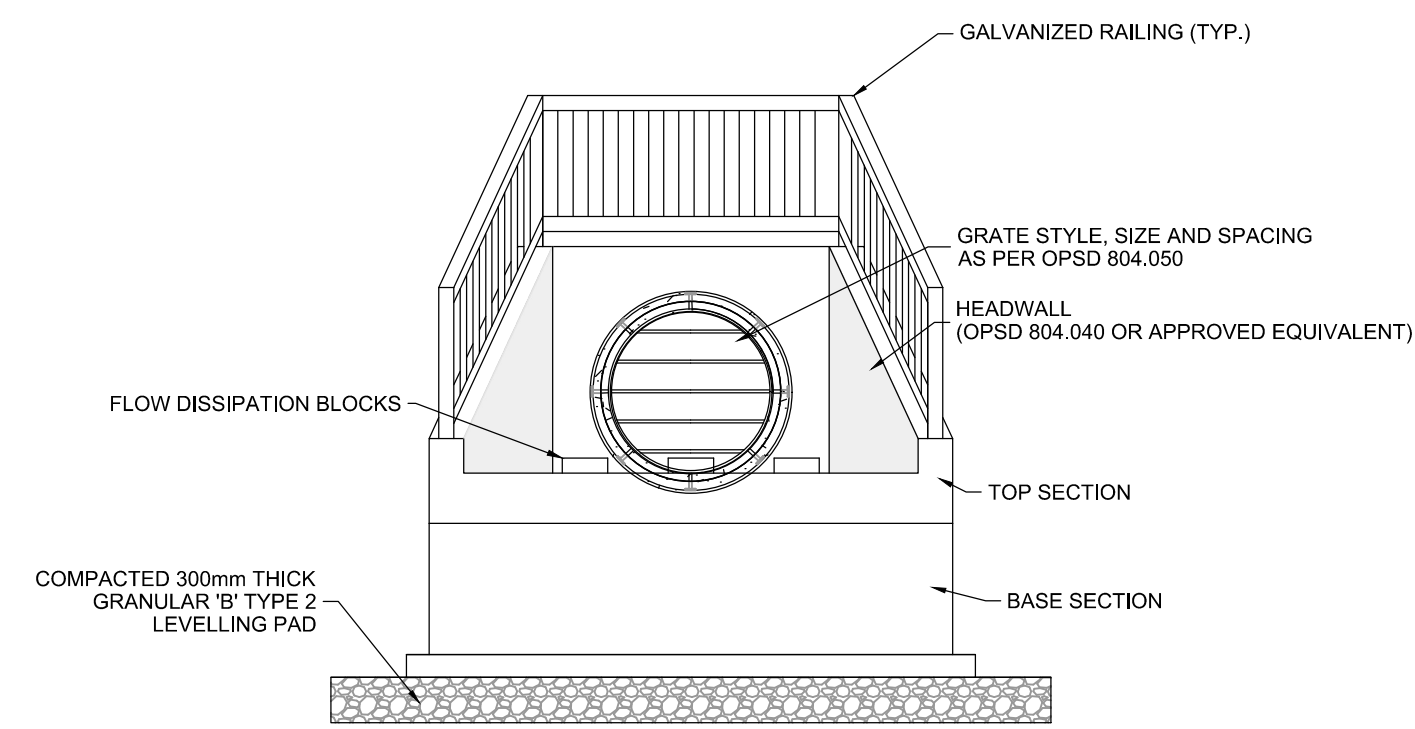
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AS SHOWN		MJH/ARM		
		CHECKED		
		DRAWN		
		MJH/ARM		
		CHECKED		
		JLS		
		APPROVED		
		JLS		
1.	ISSUED FOR SITE PLAN APPROVAL	MAY 31/2021	MJH	
No.	REVISION	DATE	BY	

R. MESTWARP
PROFESSIONAL ENGINEER
No. 52
PROVINCE OF ONTARIO

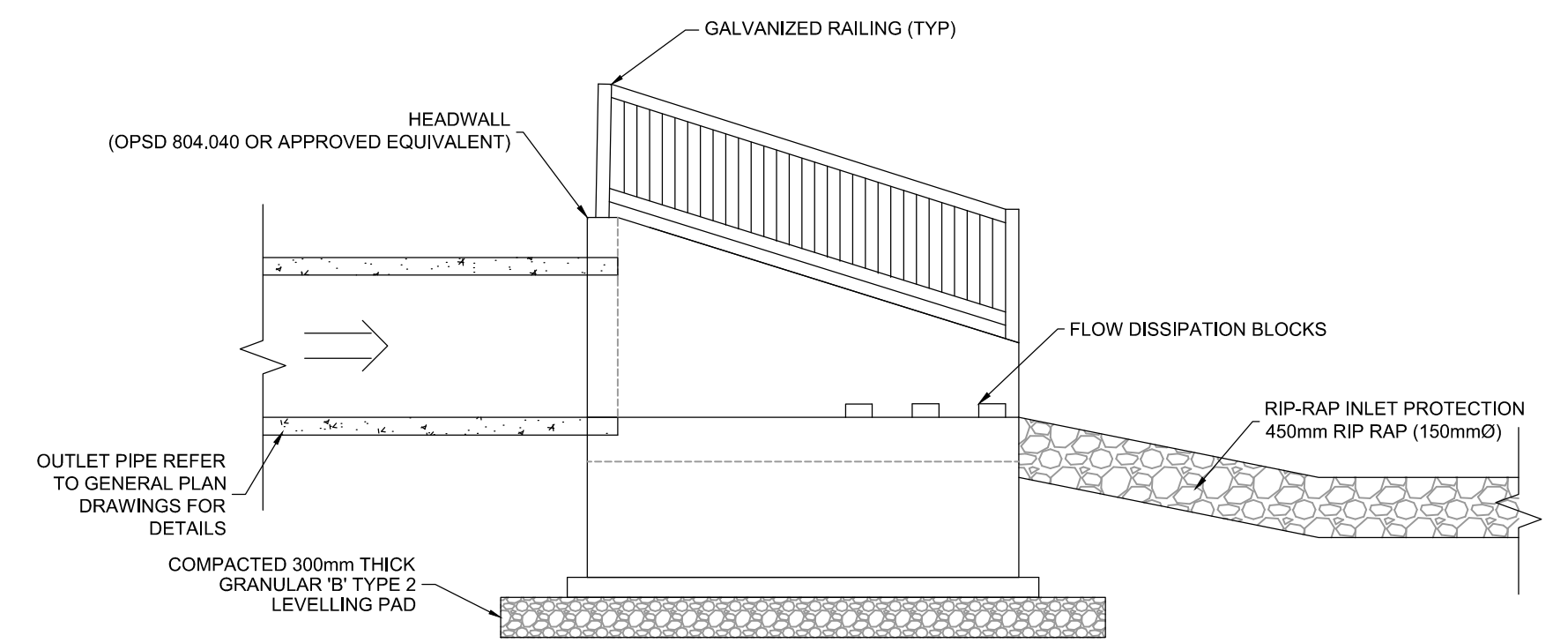
M. J. S.
PROFESSIONAL ENGINEER
No. 1256
PROVINCE OF ONTARIO

NOVATECH		Engineers, Planners & Landscape Architects	
Suite 200, 240 Michael Cowland Drive Ottawa, Ontario, Canada K2M 1P6			
Telephone: (613) 254-9643 Facsimile: (613) 254-5867 Website: www.novatech-eng.com			
LOCATION SORTATION FACILITY 99 BILL LEATHEM DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA		PROJECT No.: 121137	
DRAWING NAME NOTES AND DETAILS GRADING PLAN		REV #1	
		DRAWING No.: 121137-NDGR	

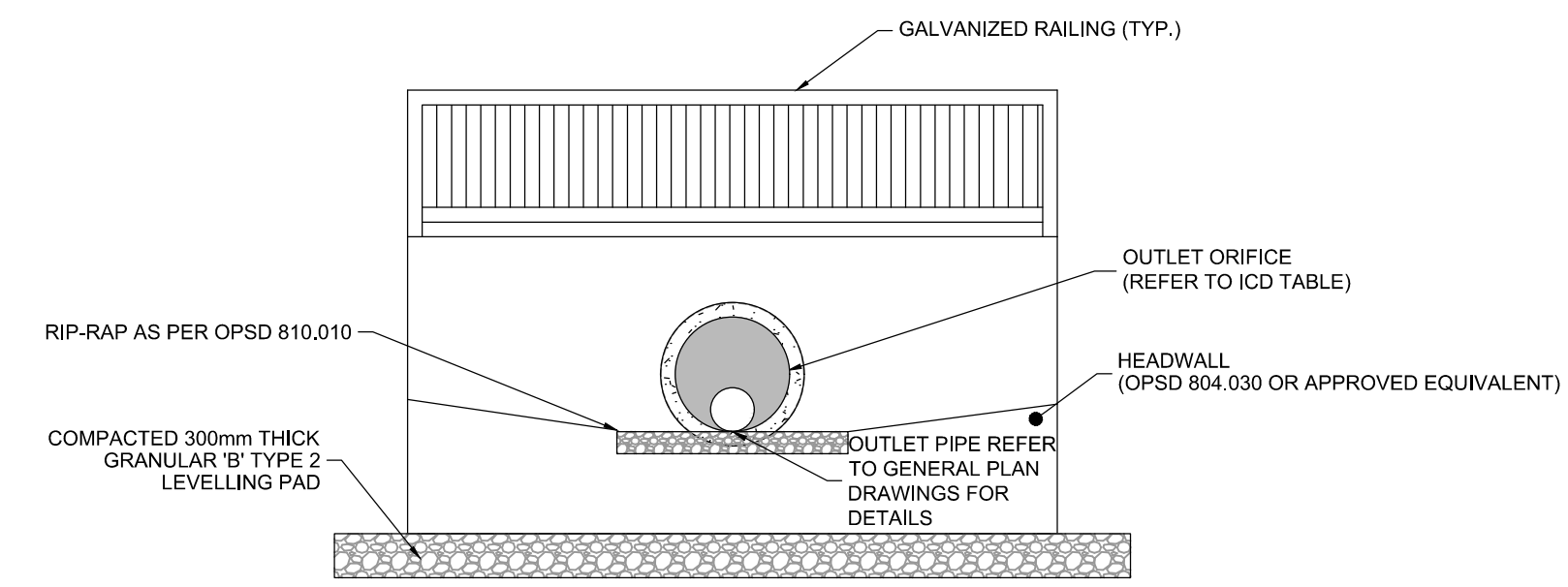
PL-487-2007 - 03/09/09/07/08



POND INLET HEADWALL (HW 1002, 2002, 3002, & 3003) DETAIL - ELEVATION
SCALE: N.T.S.



POND INLET HEADWALL DETAIL (HW 1002, 2002, 3002, & 3003) - ELEVATION
SCALE: N.T.S.



TYPICAL POND OUTLET HEADWALL (HW 1001, 2001, & 3001) DETAIL - ELEVATION
SCALE: N.T.S.

INLET CONTROL DEVICE TABLE:

LOCATION	ICD SIZE
HW 1001	230mm
HW 2001	235mm
HW 3001	533mm

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NOTE:
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WATERMANS, SEWERS AND OTHER
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CONSTRUCTION

No.	REVISION	DATE	BY
1.	ISSUED FOR SITE PLAN APPROVAL	MAY 31/2021	MJH

SCALE	DESIGN	CHECKED	DRAWN	APPROVED
AS SHOWN	MJH/ARM	JLS	MJH/ARM	JLS

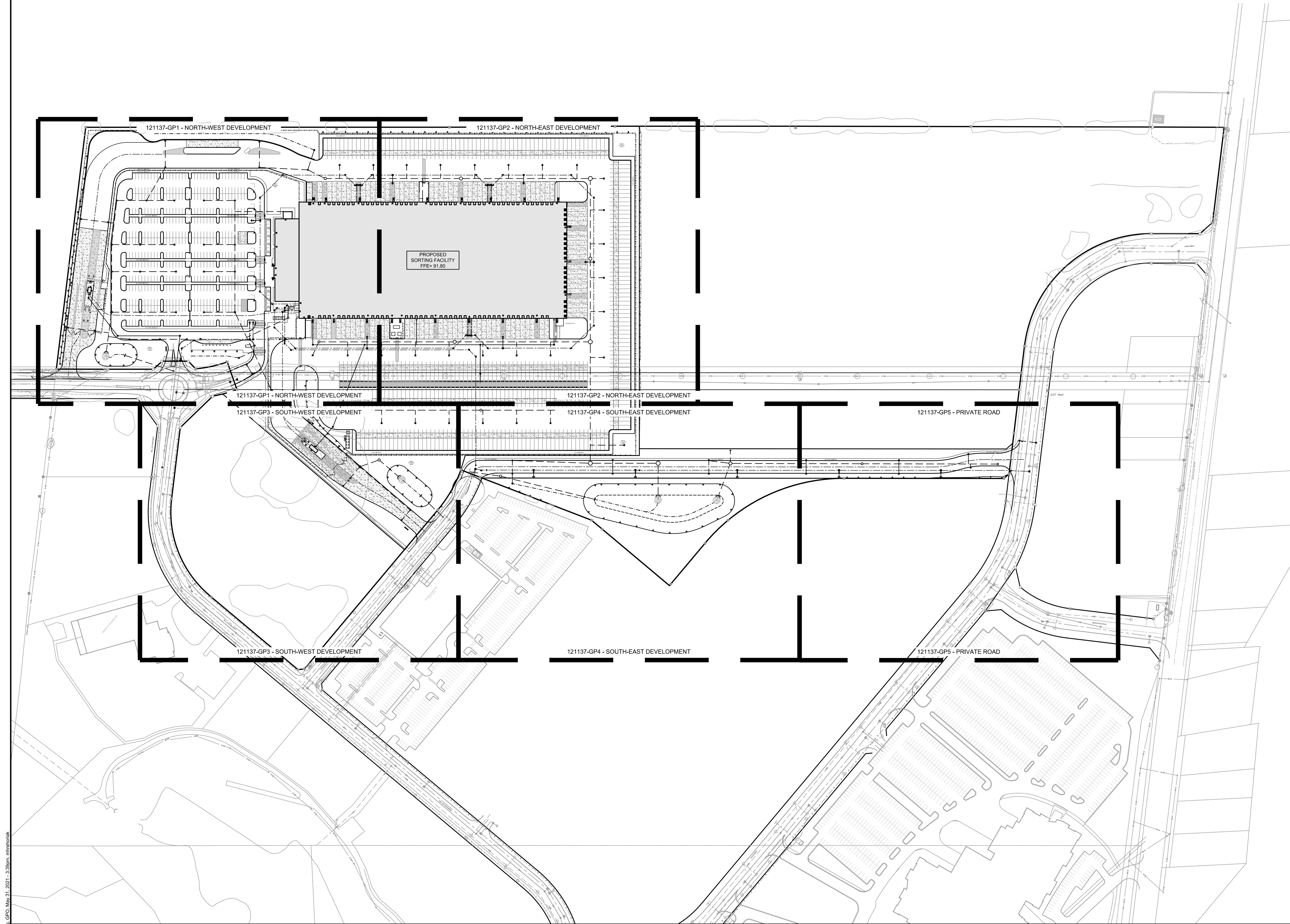
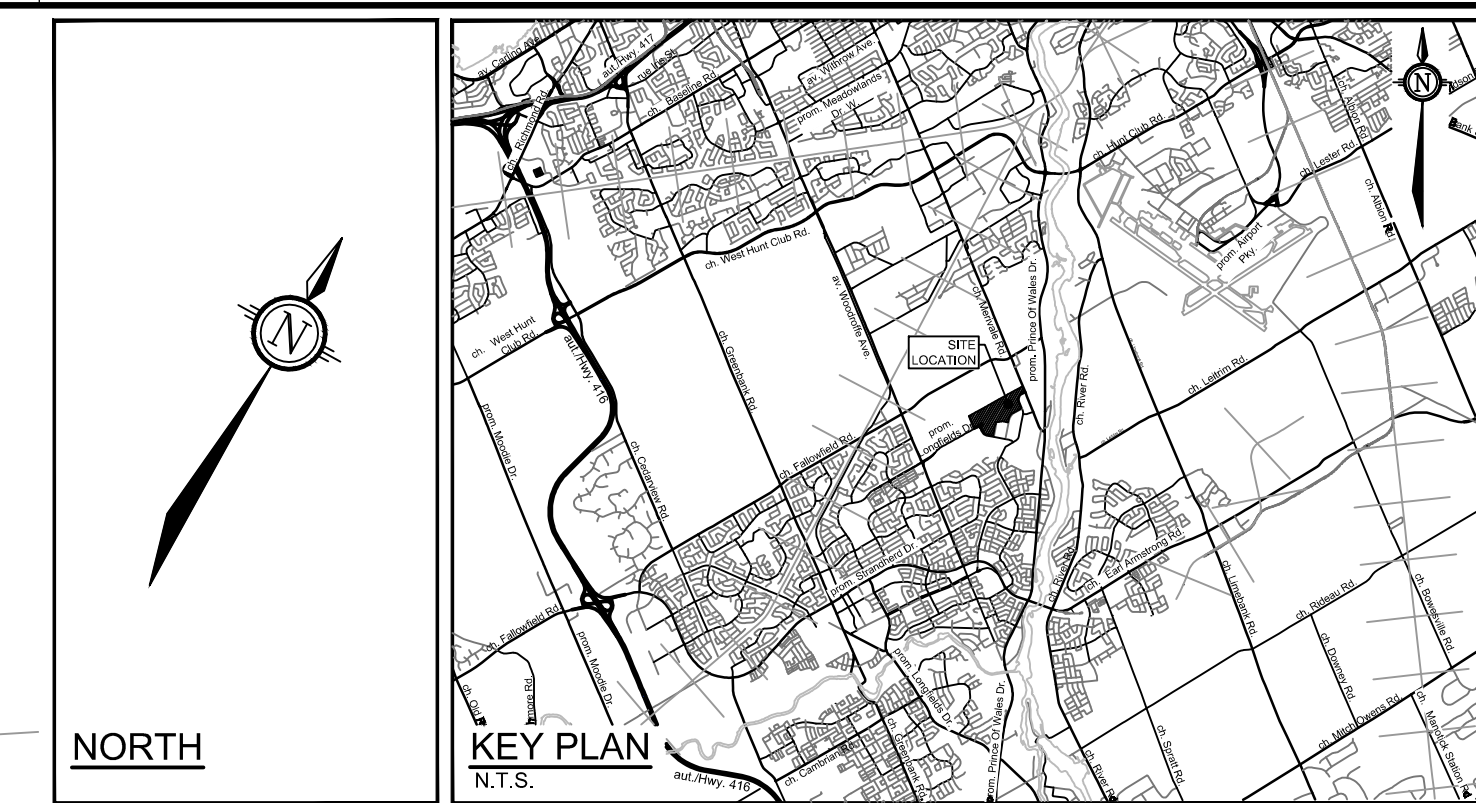
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Ottawa, Ontario, Canada K2M 1P6
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Facsimile: (613) 254-5867
Website: www.novatech-eng.com

LOCATION
SORTATION FACILITY
99 BILL LEATHEM DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA

DRAWING NAME
NOTES AND DETAILS PONDS

PROJECT No.	121137
REV	REV #1
DRAWING No.	121137-NDPND



- LEGEND**
- PROPERTY LINE
 - PROPOSED CURB
 - DC— PROPOSED DEPRESSED CURB
 - FC— PROPOSED FLUSH CURB
 - ▨ TACTILE WALKING SURFACE INDICATOR (TWSI) PER CITY DETAIL SCT.3
 - C— PROPOSED CAP
 - PROPOSED SANITARY SERVICE c/w MANHOLE
 - PROPOSED STORM SEWER AND MANHOLE
 - PROPOSED CATCHBASIN MANHOLE
 - PROPOSED CATCHBASIN
 - PROPOSED WATER SERVICE
 - PROPOSED HYDRANT c/w LEAD & VALVE
 - V&VB— PROPOSED VALVE AND VALVE BOX
 - PIV— PROPOSED POST INDICATOR VALVE
 - PROPOSED BUILDING ENTRANCE
 - ▲ DIRECTION OF FLOW
 - PROPOSED CHAINLINK FENCE (REFER TO LANDSCAPE)
 - PROPOSED PEDESTRIAN FENCE (REFER TO LANDSCAPE)
 - PIPE CROSSING (REFER TO 121137-NDGP FOR CROSSING DETAILS)
 - PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
 - EXISTING UTILITY POLE c/w GUY WIRES
 - V&VC— EXISTING WATERMAIN c/w VALVE & VALVE CHAMBER
 - EXISTING HYDRANT c/w VALVE & LEAD
 - SAN/MB— EXISTING SANITARY MANHOLE & SEWER
 - ST/MP— EXISTING STORM MANHOLE & SEWER
 - CB— EXISTING CATCHBASIN
 - GAS— EXISTING GAS MAIN
 - OHW— EXISTING OVERHEAD WIRES
 - EXISTING BELL LINE
 - H— EXISTING HYDRO
 - LS— EXISTING STREETLIGHT
 - P— EXISTING PARKING LOT SIGNAGE
- ALL SERVICE CONNECTIONS AND CATCHBASIN CONNECTIONS TO BE MADE PER CITY OF OTTAWA DETAIL S11

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CHECKED	JLS
APPROVED	JLS



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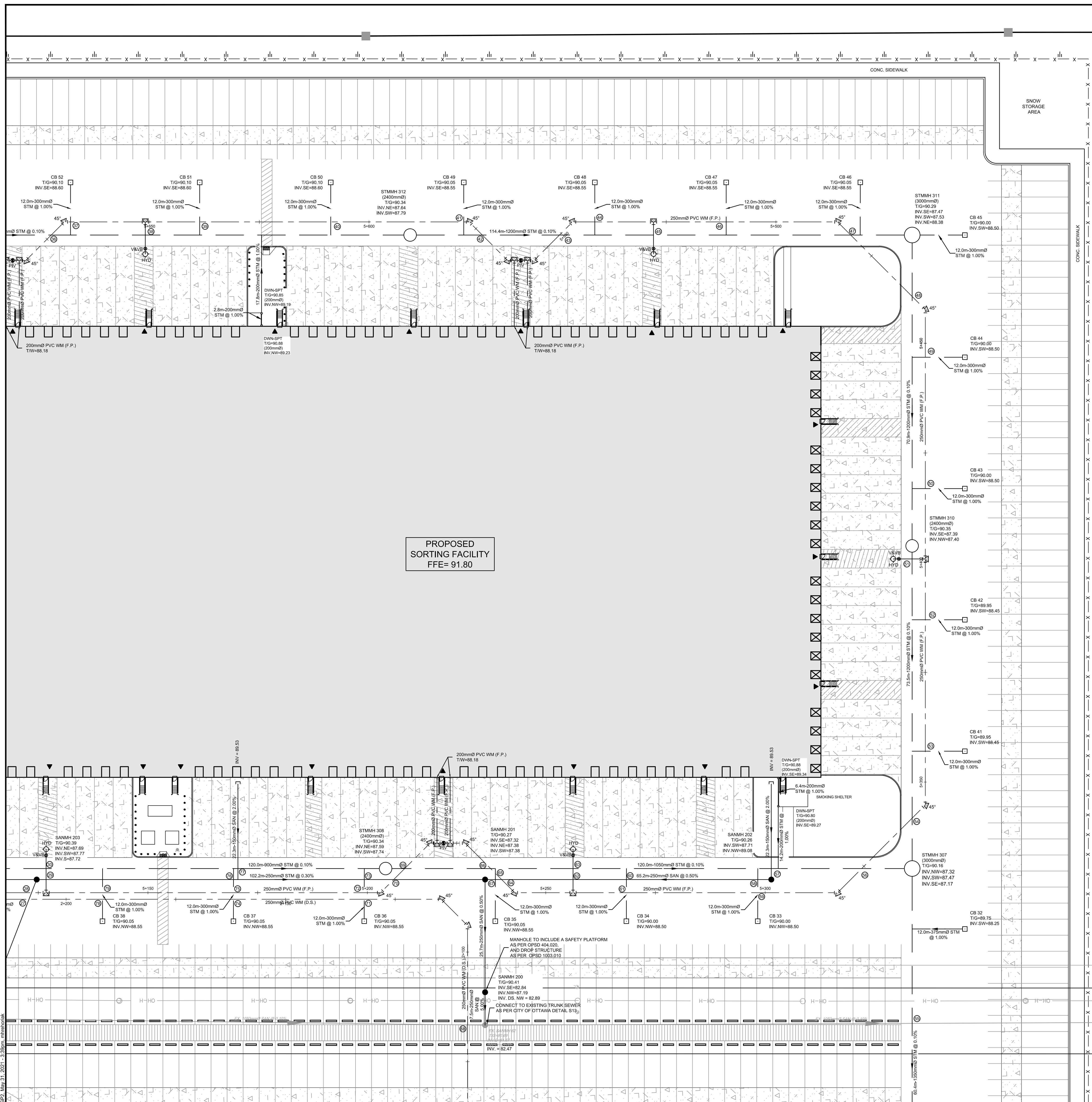
REFER TO 121137-NDGP FOR ADDITIONAL NOTES

LOCATION
 SORTATION FACILITY
 99 BILL LEATHEM DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA

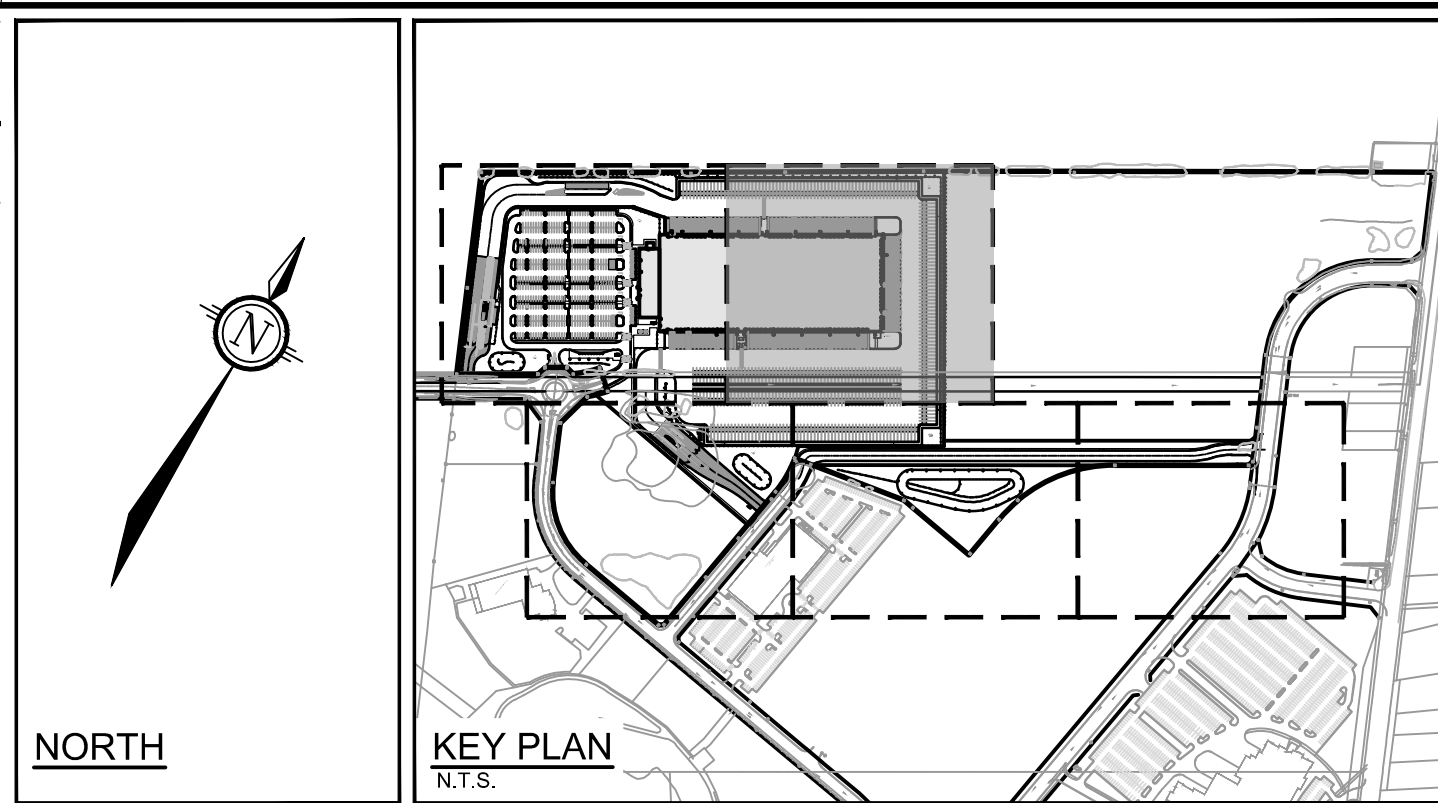
DRAWING NAME
 GENERAL PLAN OF SERVICES
 OVERALL DEVELOPMENT

PROJECT NO.: 121137
 REV #1
 DRAWING NO.: 121137-GPO

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PROPOSED SORTING FACILITY
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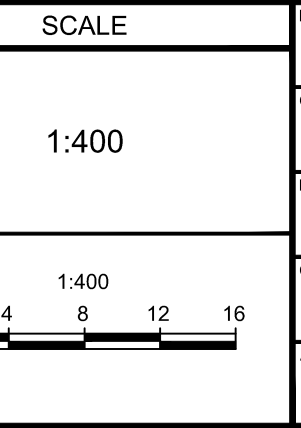


- LEGEND**
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 - PROPOSED CATCHBASIN
 - PROPOSED WATER SERVICE
 - PROPOSED HYDRANT c/w LEAD & VALVE
 - V&V --- PROPOSED VALVE AND VALVE BOX
 - PIV --- PROPOSED POST INDICATOR VALVE
 - PROPOSED BUILDING ENTRANCE
 - DIRECTION OF FLOW
 - PROPOSED CHAINLINK FENCE (REFER TO LANDSCAPE)
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 - PIPE CROSSING (REFER TO 121137-NDGP FOR CROSSING DETAILS)
 - PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
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 - V&V --- EXISTING WATERMAIN c/w VALVE & LEAD CHAMBER
 - EXISTING HYDRANT c/w VALVE & LEAD CHAMBER
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 - STMMH --- EXISTING STORM MANHOLE & SEWER
 - CB --- EXISTING CATCHBASIN
 - EXISTING GAS MAIN
 - EXISTING OVERHEAD WIRES
 - EXISTING BELL LINE
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 - EXISTING PARKING LOT SIGNAGE
- ALL SERVICE CONNECTIONS AND CATCHBASIN CONNECTIONS TO BE MADE PER CITY OF OTTAWA DETAIL S11

REFER TO 121137-NDGP FOR ADDITIONAL NOTES

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PERSON	MJH/ARM
CHECKED	JLS
DRAWN	MJH/ARM
CHECKED	JLS
APPROVED	JLS

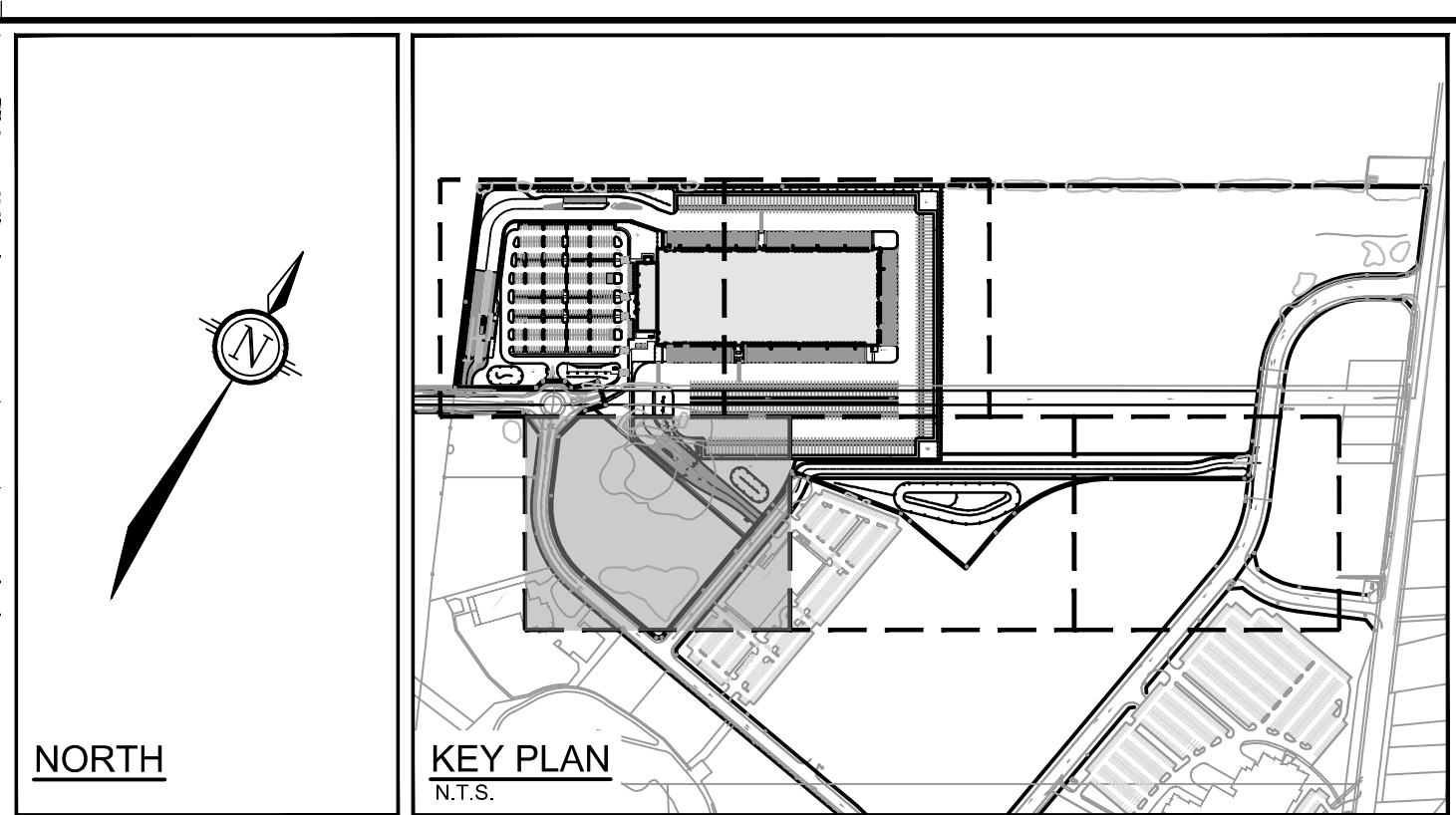
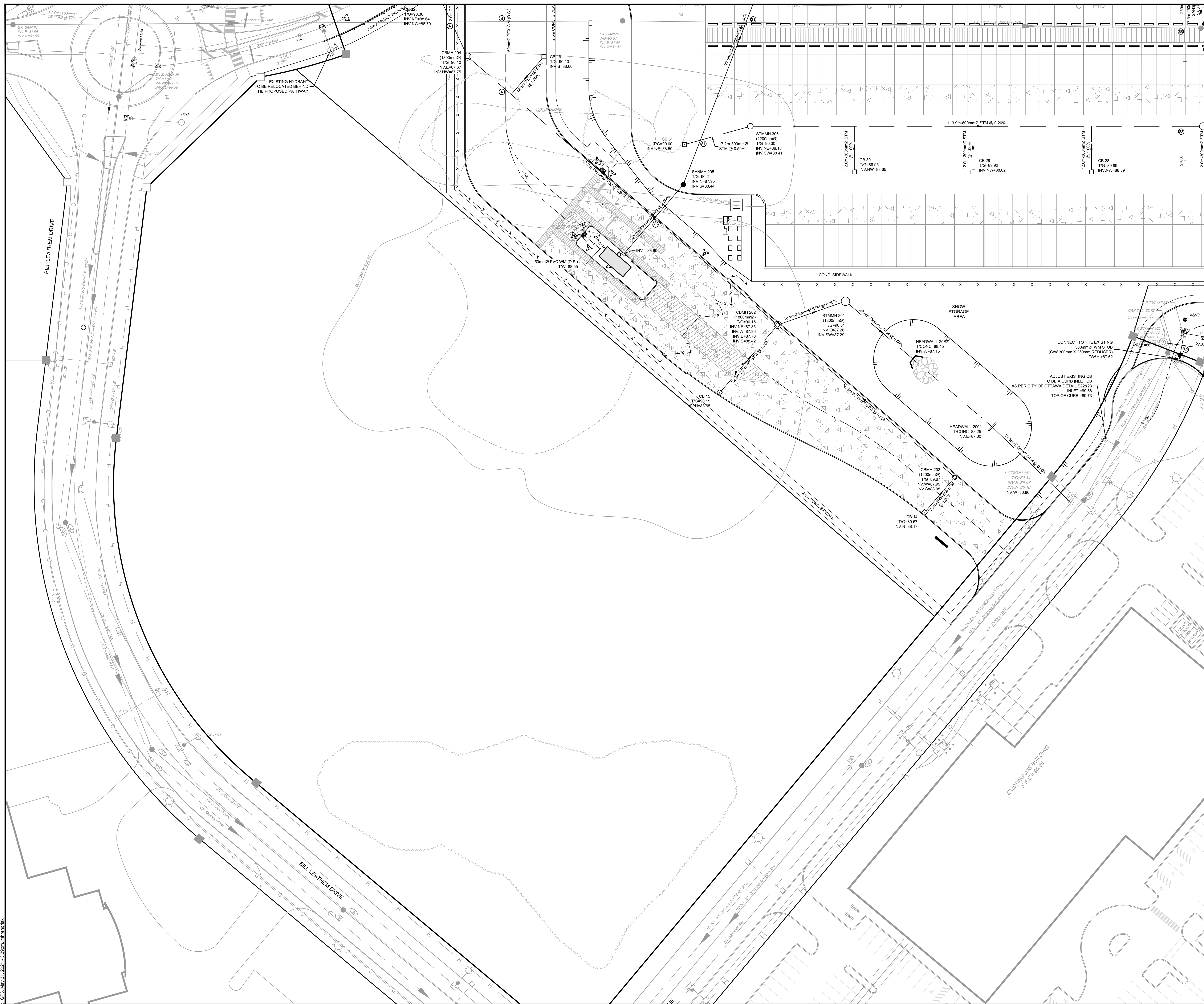
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Website: www.novatech-eng.com

LOCATION	SORTATION FACILITY 99 BILL LEATHER DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA
DRAWING NAME	GENERAL PLAN OF SERVICES NORTH-EAST DEVELOPMENT
PROJECT No.	121137
REV	REV #1
DRAWING No.	121137-GP2

2021/12/13/121137-NDGP-01.dwg, GPR, May 31, 2021, 1:30pm, mjh/marm



- LEGEND**
- PROPERTY LINE
 - PROPOSED CURB
 - DC PROPOSED DEPRESSED CURB
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 - DIRECTION OF FLOW
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 - PROPOSED PEDESTRIAN FENCE (REFER TO LANDSCAPE)
 - PIPE CROSSING (REFER TO 121137-NDGP FOR CROSSING DETAILS)
 - PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
 - EXISTING UTILITY POLE c/w GUY WIRES
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 - EXISTING HYDRANT c/w VALVE & LEAD
 - SAN.M.H. EXISTING SANITARY MANHOLE & SEWER
 - STM.M.H. EXISTING STORM MANHOLE & SEWER
 - CB I EXISTING CATCHBASIN
 - GAS EXISTING GAS MAIN
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1.	ISSUED FOR SITE PLAN APPROVAL	MAY 31/2021	MJH

SCALE	
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PERSON	MJH/ARM
CHECKED	JLS
DRAWN	MJH/ARM
CHECKED	JLS
APPROVED	JLS

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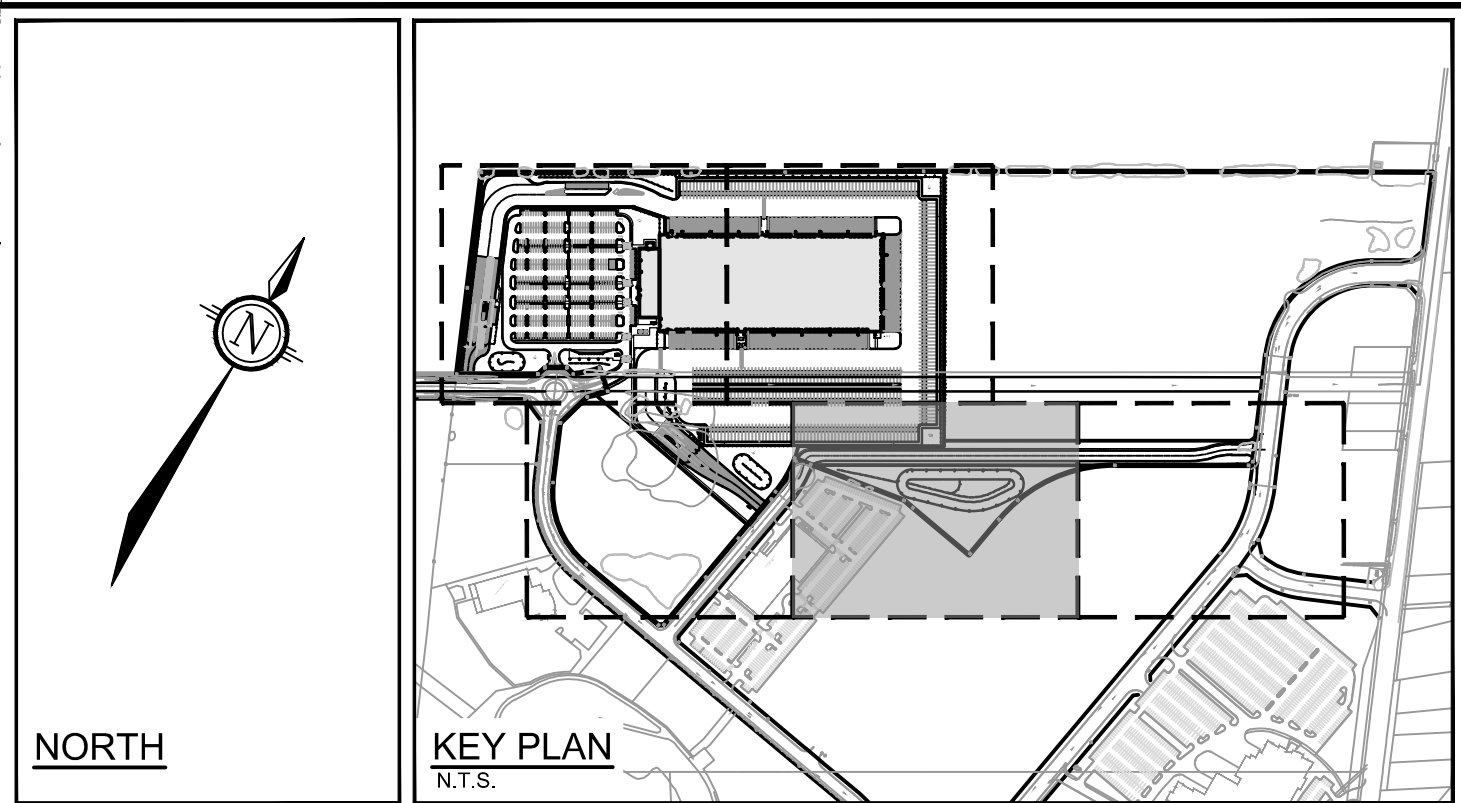
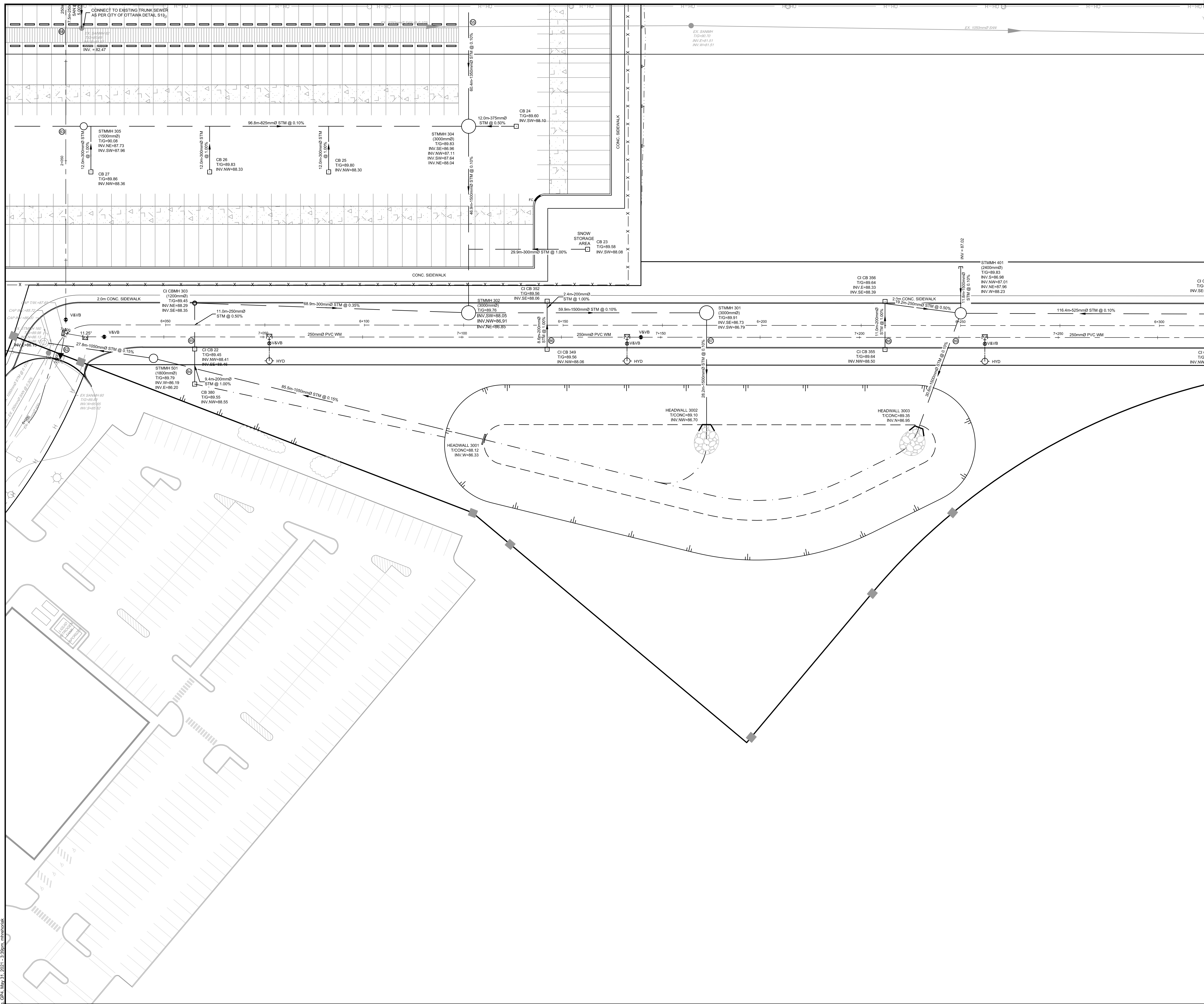
REFER TO 121137-NDGP FOR ADDITIONAL NOTES

LOCATION
 SORTATION FACILITY
 99 BILL LEATHER DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA

DRAWING NAME
 GENERAL PLAN OF SERVICES
 SOUTH-WEST DEVELOPMENT

PROJECT No.	121137
REV	REV #1
DRAWING No.	121137-GP3

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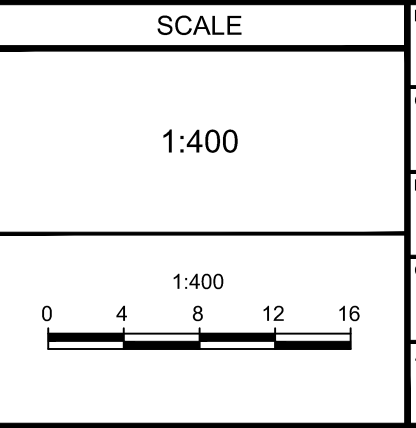


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 - STORM.MH. EXISTING STORM MANHOLE & SEWER
 - CB EXISTING CATCHBASIN
 - GAS EXISTING GAS MAIN
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- ALL SERVICE CONNECTIONS AND CATCHBASIN CONNECTIONS TO BE MADE PER CITY OF OTTAWA DETAIL S11

NOTE:
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NOT FOR CONSTRUCTION

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DESIGN	MJH/ARM
CHECKED	JLS
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CHECKED	JLS
APPROVED	JLS



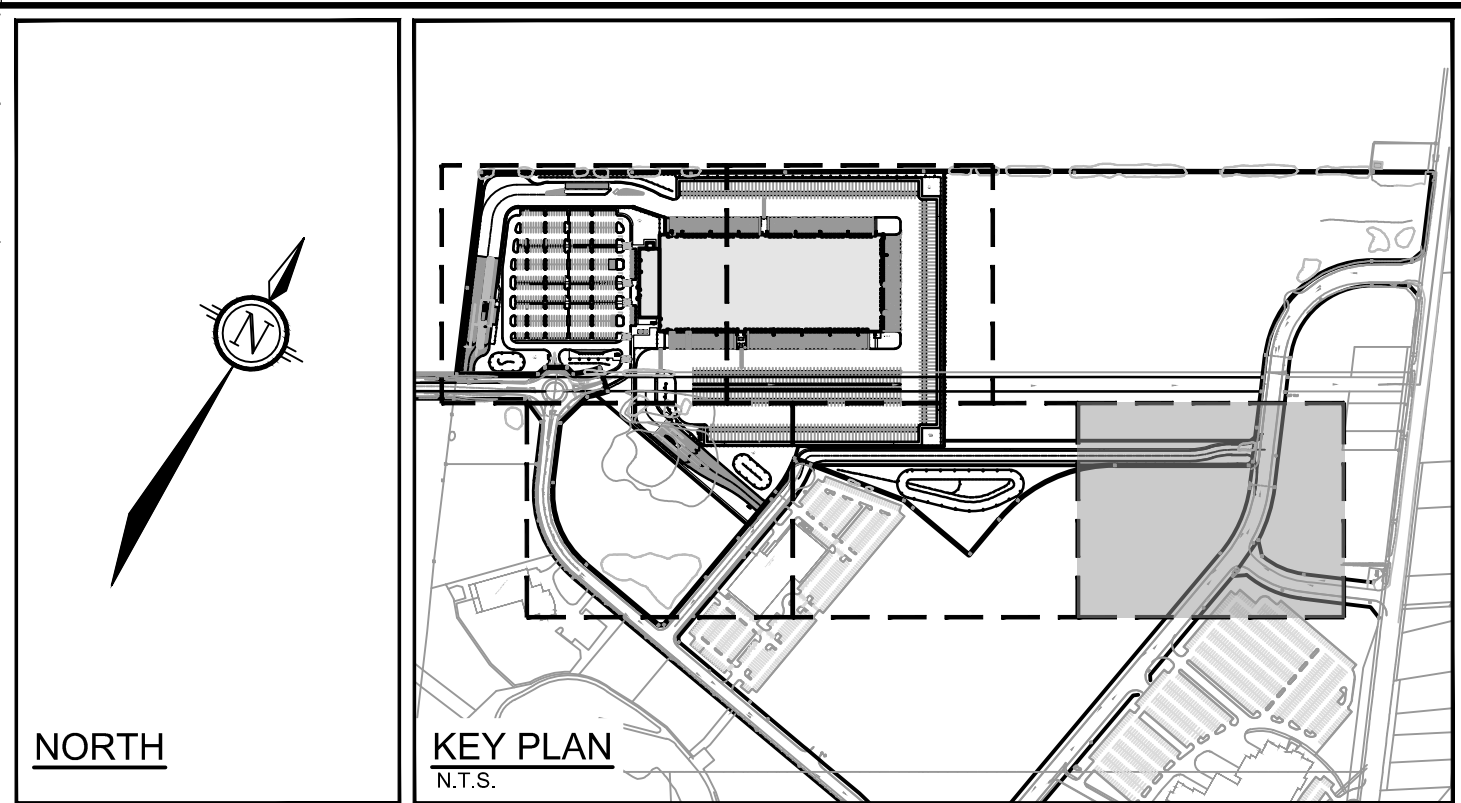
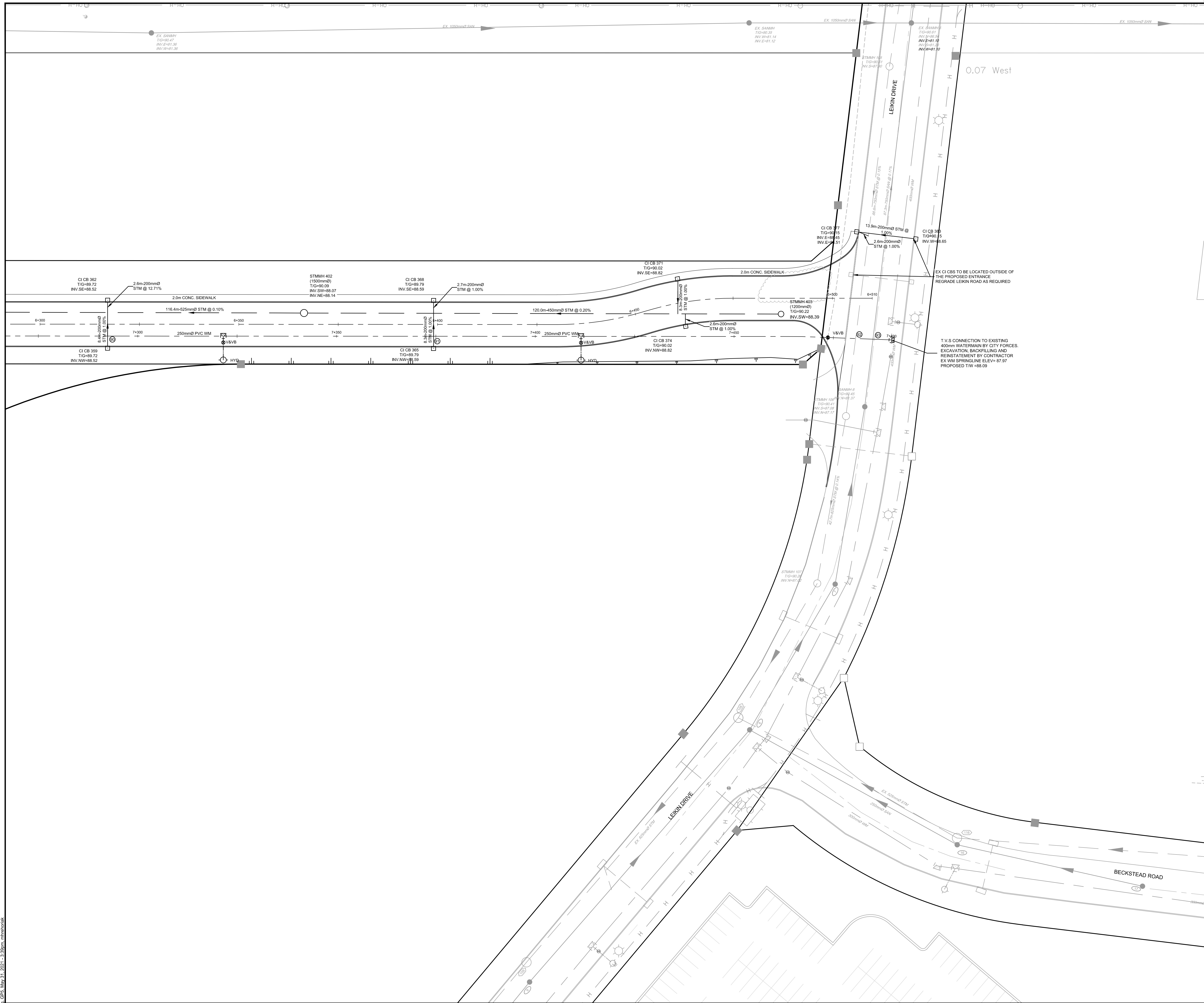
NOVATECH
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 Suite 200, 240 Michael Cowpland Drive
 Ottawa, Ontario, Canada K2M 1P6
 Telephone: (613) 254-9643
 Facsimile: (613) 254-5867
 Website: www.novatech-eng.com

REFER TO 121137-NDGPP FOR ADDITIONAL NOTES

LOCATION SORTATION FACILITY 99 BILL LEATHER DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA		PROJECT NO. 121137
DRAWING NAME GENERAL PLAN OF SERVICES SOUTH-EAST DEVELOPMENT		REV #1
DRAWING NO. 121137-GP4		

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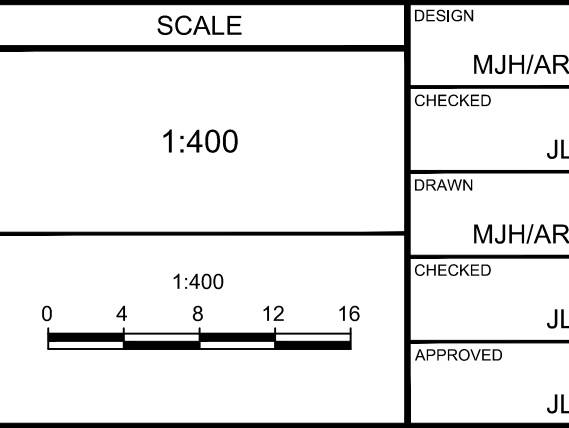


- LEGEND**
- PROPERTY LINE
 - PROPOSED CURB
 - DC — PROPOSED DEPRESSED CURB
 - FC — PROPOSED FLUSH CURB
 - ▨ — TACTILE WALKING SURFACE INDICATOR (TWSI) PER CITY DETAIL SCT.3
 - ⊔ — PROPOSED CAP
 - — PROPOSED SANITARY SERVICE c/w MANHOLE
 - — PROPOSED STORM SEWER AND MANHOLE
 - — PROPOSED CATCHBASIN MANHOLE
 - — PROPOSED CATCHBASIN
 - — PROPOSED WATER SERVICE
 - — PROPOSED HYDRANT c/w LEAD & VALVE
 - V&VB ⊙ — PROPOSED VALVE AND VALVE BOX
 - PIV ⊙ — PROPOSED POST INDICATOR VALVE
 - ▾ — PROPOSED BUILDING ENTRANCE
 - — DIRECTION OF FLOW
 - PROPOSED CHAINLINK FENCE (REFER TO LANDSCAPE)
 - PROPOSED PEDESTRIAN FENCE (REFER TO LANDSCAPE)
 - ⊙ — PIPE CROSSING (REFER TO 121137-NDGP FOR CROSSING DETAILS)
 - ⊙ — PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
 - — EXISTING UTILITY POLE c/w GUY WIRES
 - W&V ⊙ — EXISTING WATERMAIN c/w VALVE & VALVE CHAMBER
 - — EXISTING HYDRANT c/w VALVE & LEAD
 - SAN.MH ⊙ — EXISTING SANITARY MANHOLE & SEWER
 - STM.MH ⊙ — EXISTING STORM MANHOLE & SEWER
 - CB ⊔ — EXISTING CATCHBASIN
 - GAS — EXISTING GAS MAIN
 - OHW — EXISTING OVERHEAD WIRES
 - — EXISTING BELL LINE
 - — EXISTING HYDRO
 - LS ⊙ — EXISTING STREETLIGHT
 - ⊙ — EXISTING PARKING LOT SIGNAGE
- ALL SERVICE CONNECTIONS AND CATCHBASIN CONNECTIONS TO BE MADE PER CITY OF OTTAWA DETAIL S11

NOTE:
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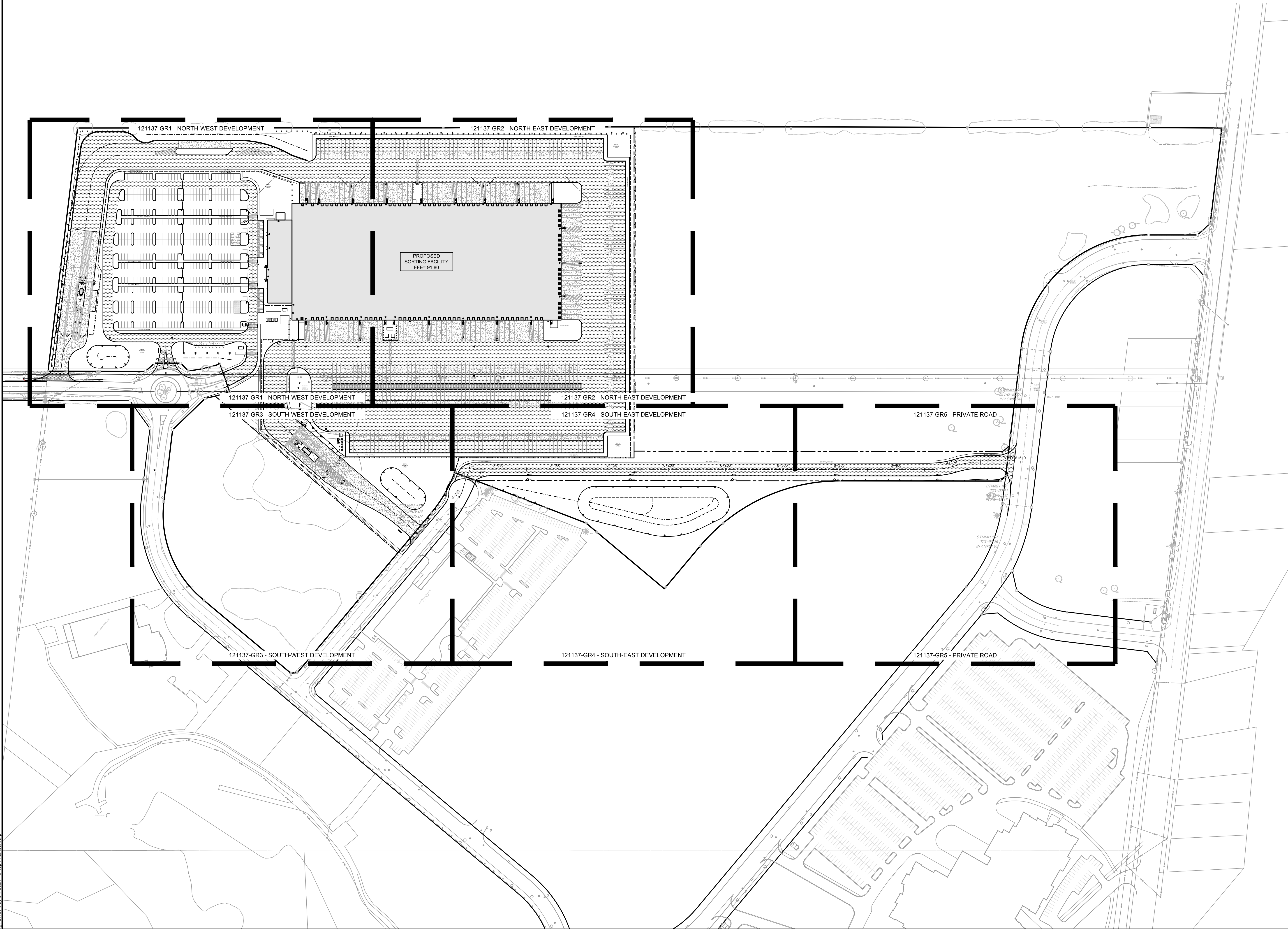
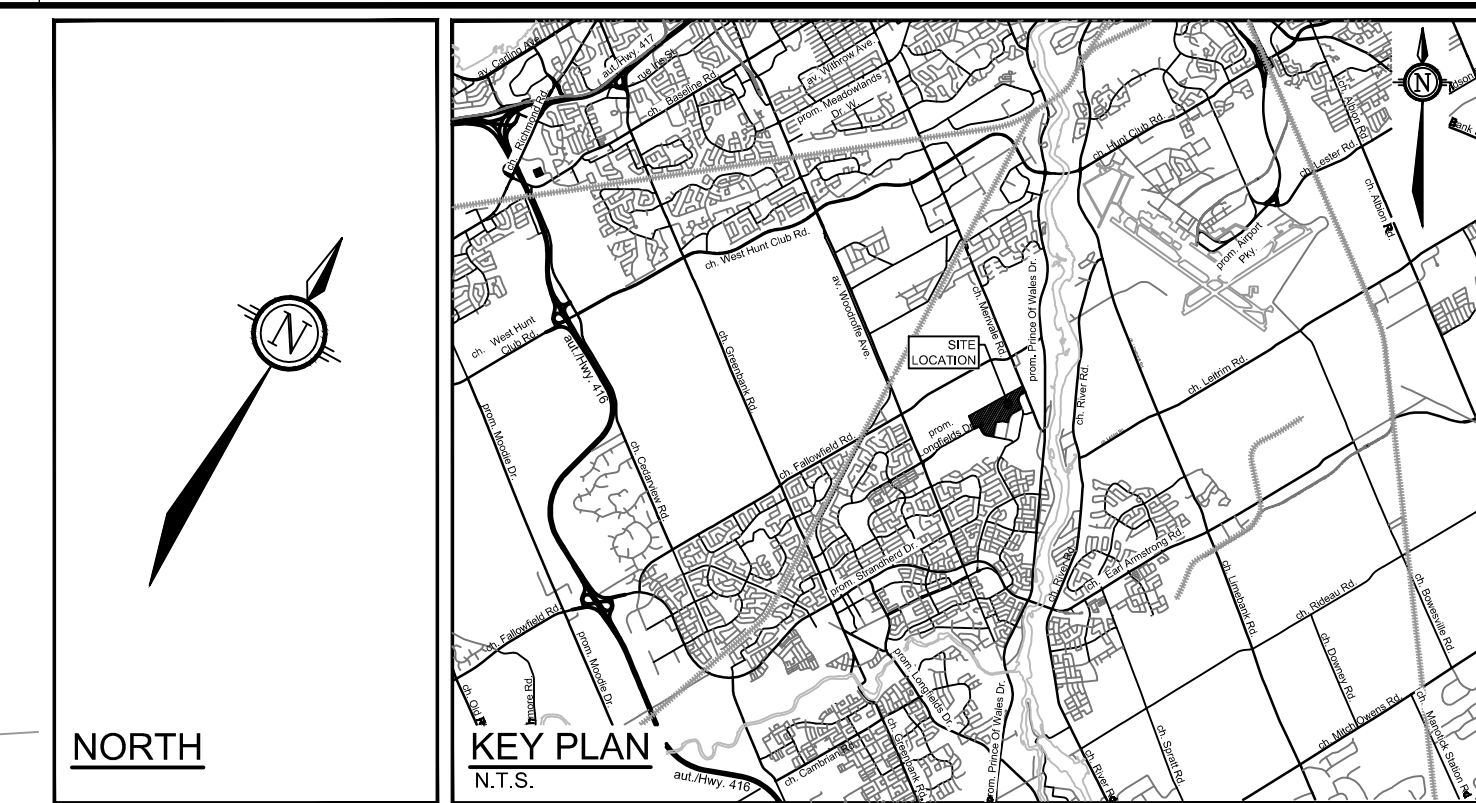
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 APPROVED: JLS

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REFER TO 121137-NDGP FOR ADDITIONAL NOTES

LOCATION SORTATION FACILITY 99 BILL LEATHEN DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA	PROJECT No: 121137
DRAWING NAME GENERAL PLAN OF SERVICES PRIVATE ROAD	REV #1
DRAWING No: 121137-GP5	

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- LEGEND**
- PROPERTY LINE
 - PROPOSED ELEVATION
 - EXISTING ELEVATION
 - PROPOSED SWALE ELEVATION
 - PROPOSED BUILDING ENTRANCE
 - DIRECTION OF MAJOR OVERLAND FLOW
 - PROPOSED SAN MANHOLE
 - PROPOSED STORM MANHOLE
 - PROPOSED CATCHBASIN MANHOLE
 - PROPOSED CATCHBASIN
 - PROPOSED FIRE HYDRANT
 - PROPOSED VALVE AND VALVE BOX
 - PROPOSED POST INDICATOR VALVE
 - PROPOSED CHAIN LINK FENCE (REFER TO LANDSCAPE)
 - PROPOSED PEDESTRIAN FENCE (REFER TO LANDSCAPE)
 - PROPOSED HIGH POINT
 - PROPOSED CURB
 - PROPOSED DEPRESSED CURB
 - PROPOSED FLUSH CURB
 - TACTILE WALKING SURFACE INDICATOR (TWS) PER CITY DETAIL SCT.3
 - SWALE c/w SUBDRAIN AND DIRECTION OF FLOW
 - TERRACING 2:1 SLOPE MAX (UNLESS OTHERWISE INDICATED)
 - BOTTOM OF SLOPE
 - SLOPE AND DIRECTION
 - PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
 - EXISTING UTILITY POLE C/W GUY WIRES
 - EXISTING VALVE & VALVE CHAMBER
 - EXISTING VALVE & VALVE BOX
 - EXISTING HYDRANT
 - EXISTING SANITARY MANHOLE
 - EXISTING STORM MANHOLE
 - EXISTING CATCHBASIN
 - EXISTING LIGHT STANDARD
 - EXISTING FENCE

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NO.	REVISION	DATE	BY
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REFER TO 121137-NDGR FOR ADDITIONAL NOTES

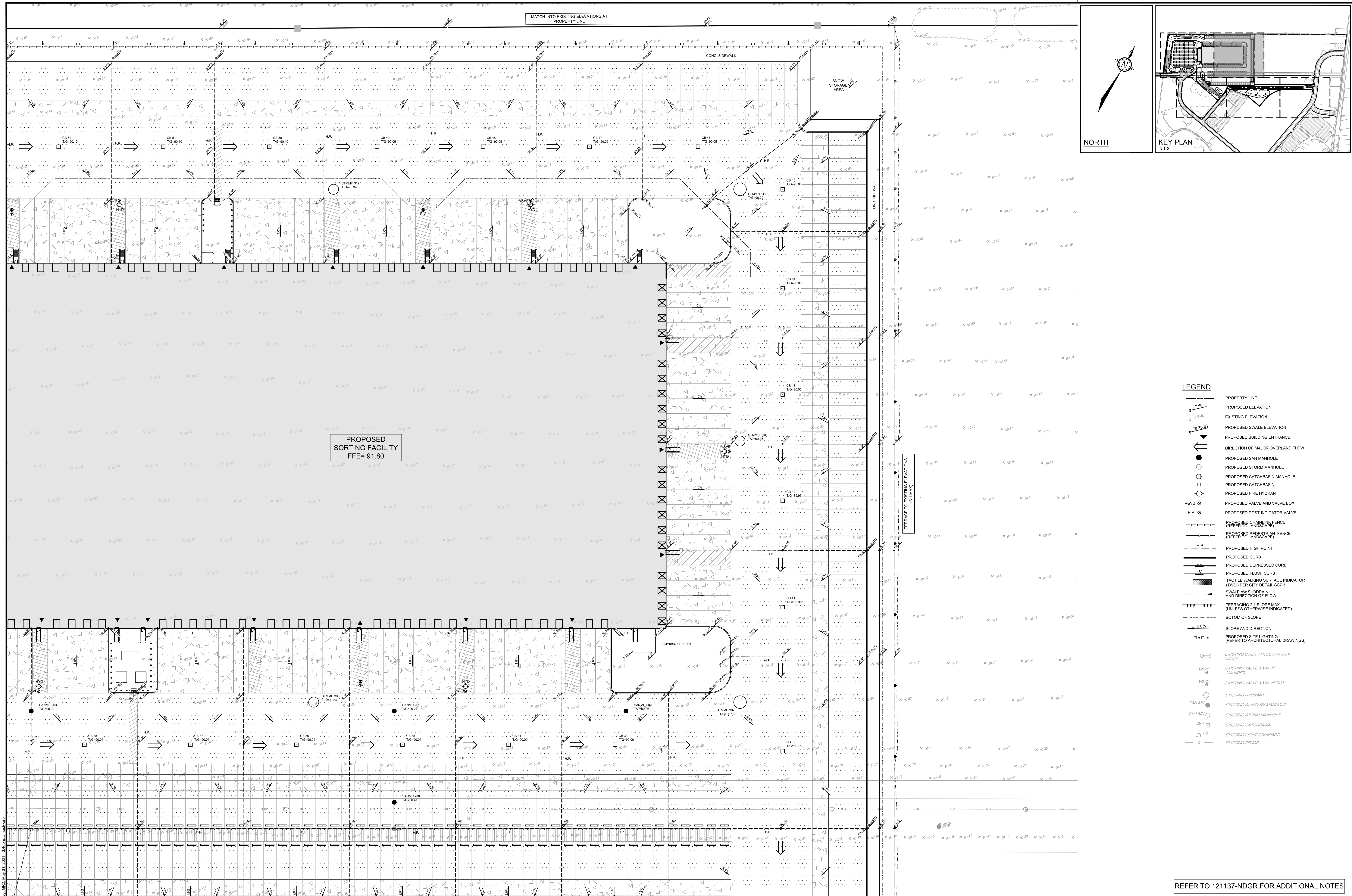
LOCATION
SORTATION FACILITY
 99 BILL LEATHEN DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA

DRAWING NAME
GRADING PLAN
OVERALL DEVELOPMENT

PROJECT NO. 121137
 REV #1
 DRAWING NO. 121137-GRO

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PROPOSED SORTING FACILITY
FFE= 91.80

NORTH

KEY PLAN
N.T.S.

LEGEND

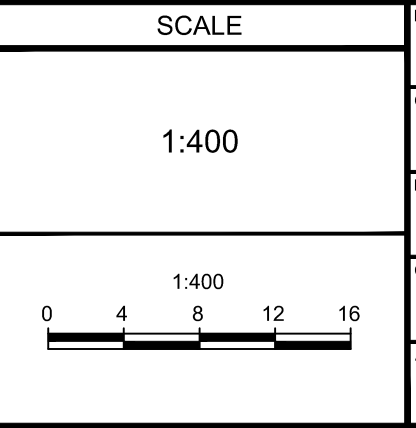
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	PROPOSED SWALE ELEVATION
	PROPOSED BUILDING ENTRANCE
	DIRECTION OF MAJOR OVERLAND FLOW
	PROPOSED SAN MANHOLE
	PROPOSED STORM MANHOLE
	PROPOSED CATCHBASIN MANHOLE
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	PROPOSED HIGH POINT
	PROPOSED CURB
	PROPOSED DEPRESSED CURB
	PROPOSED FLUSH CURB
	TACTILE WALKING SURFACE INDICATOR (TWS) PER CITY DETAIL SCT.3
	SWALE <i>o/w</i> SUBDRAIN AND DIRECTION OF FLOW
	TERACING 2:1 SLOPE MAX (UNLESS OTHERWISE INDICATED)
	BOTTOM OF SLOPE
	SLOPE AND DIRECTION
	PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
	EXISTING UTILITY POLE <i>C/W</i> GUY WIRES
	EXISTING VALVE & VALVE CHAMBER
	EXISTING VALVE & VALVE BOX
	EXISTING HYDRANT
	EXISTING SANITARY MANHOLE
	EXISTING STORM MANHOLE
	EXISTING CATCHBASIN
	EXISTING LIGHT STANDARD
	EXISTING FENCE

REFER TO 121137-NDGR FOR ADDITIONAL NOTES

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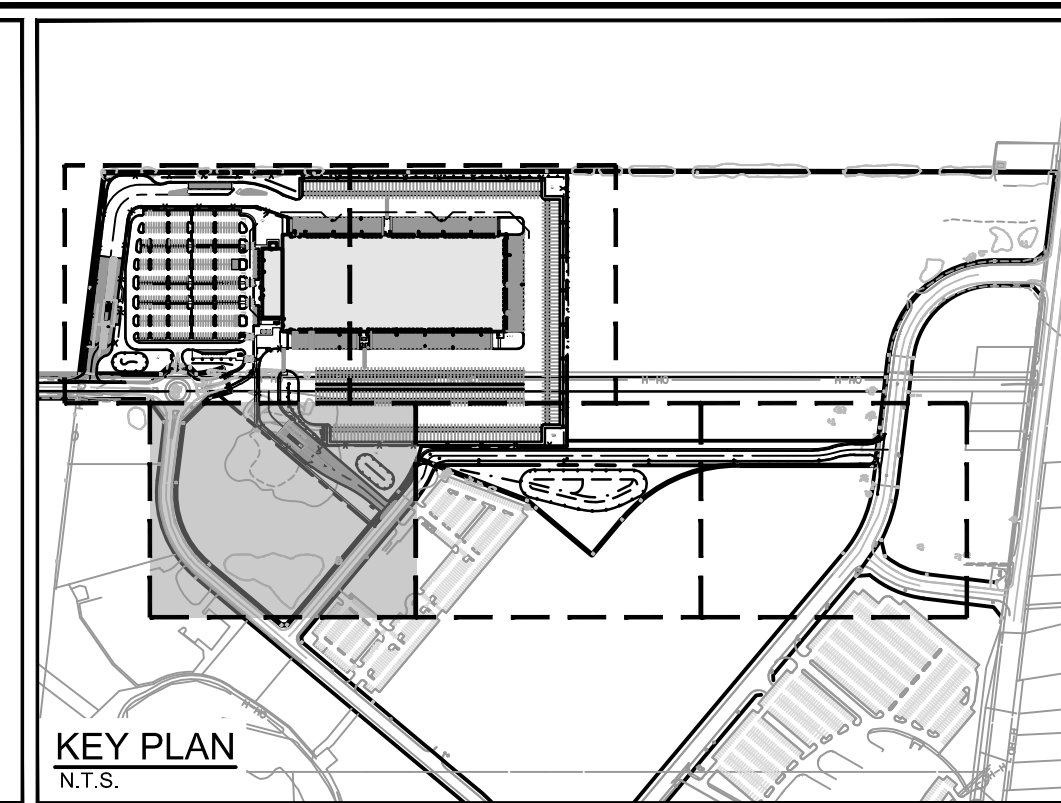
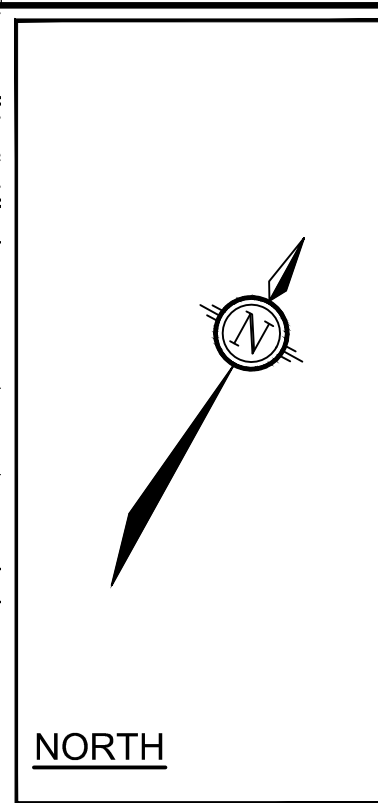
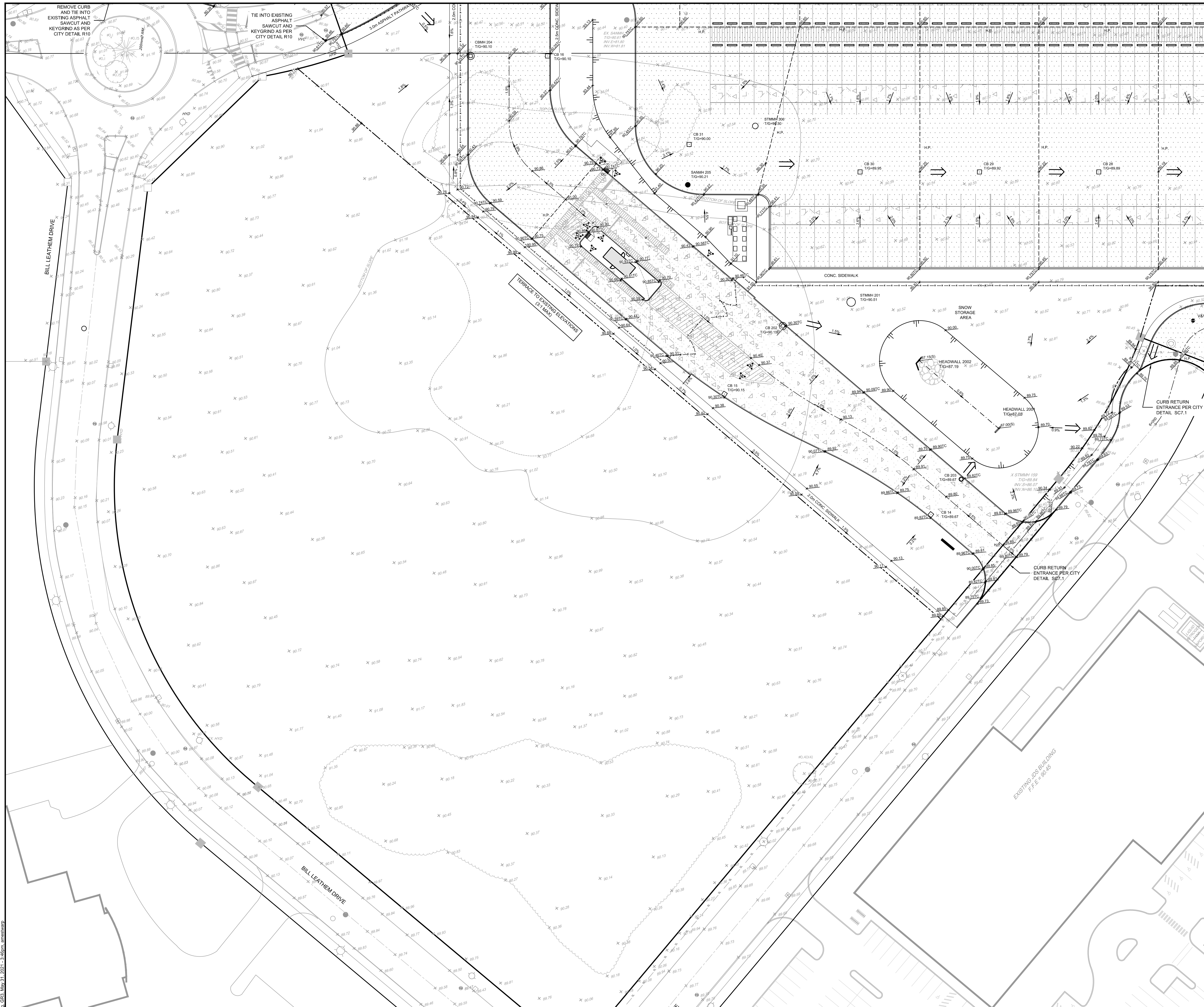


DESIGN	MJH/ARM
CHECKED	JLS
DRAWN	MJH/ARM
CHECKED	JLS
APPROVED	JLS

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LOCATION SORTATION FACILITY 99 BILL LEATHEN DR., 2 & 20 LEIKIN DR., CITY OF OTTAWA		PROJECT NO.	121137
DRAWING NAME GRADING PLAN NORTH-EAST DEVELOPMENT		REV.	REV #1
DRAWING NO.		121137-GR2	



LEGEND

	PROPERTY LINE
	PROPOSED ELEVATION
	EXISTING ELEVATION
	PROPOSED SWALE ELEVATION
	PROPOSED BUILDING ENTRANCE
	DIRECTION OF MAJOR OVERLAND FLOW
	PROPOSED SAN MANHOLE
	PROPOSED STORM MANHOLE
	PROPOSED CATCHBASIN MANHOLE
	PROPOSED CATCHBASIN
	PROPOSED FIRE HYDRANT
	PROPOSED VALVE AND VALVE BOX
	PROPOSED POST INDICATOR VALVE
	PROPOSED CHAIN LINK FENCE (REFER TO LANDSCAPE)
	PROPOSED PEDESTRIAN FENCE (REFER TO LANDSCAPE)
	PROPOSED HIGH POINT
	PROPOSED CURBS
	PROPOSED DEPRESSED CURBS
	PROPOSED FLUSH CURBS
	TACTILE WALKING SURFACE INDICATOR (TWS) PER CITY DETAIL SCT.3
	SWALE WITH SUBDRAIN AND DIRECTION OF FLOW
	TERACING 2:1 SLOPE MAX (UNLESS OTHERWISE INDICATED)
	BOTTOM OF SLOPE
	SLOPE AND DIRECTION
	PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
	EXISTING UTILITY POLE WITH GUY WIRES
	EXISTING VALVE & VALVE CHAMBER
	EXISTING VALVE & VALVE BOX
	EXISTING HYDRANT
	EXISTING SANITARY MANHOLE
	EXISTING STORM MANHOLE
	EXISTING CATCHBASIN
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APPROVED	JLS

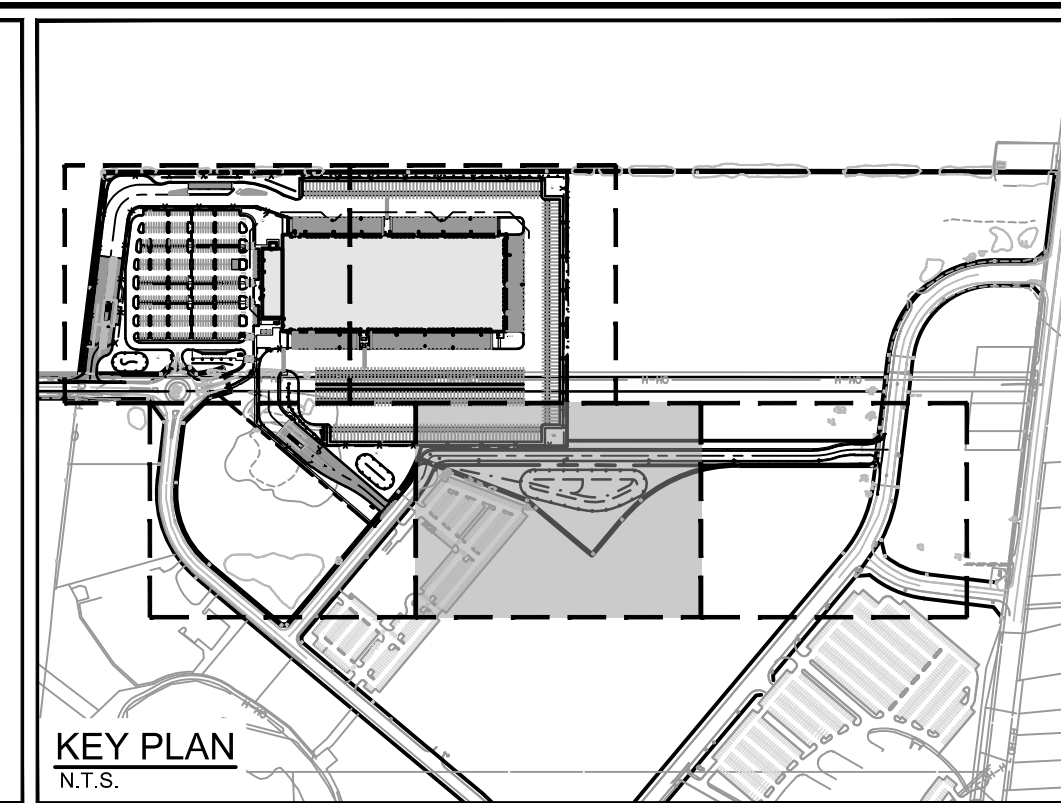
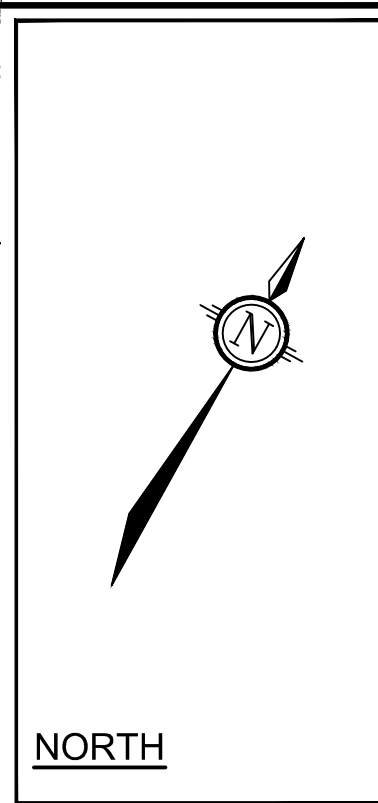
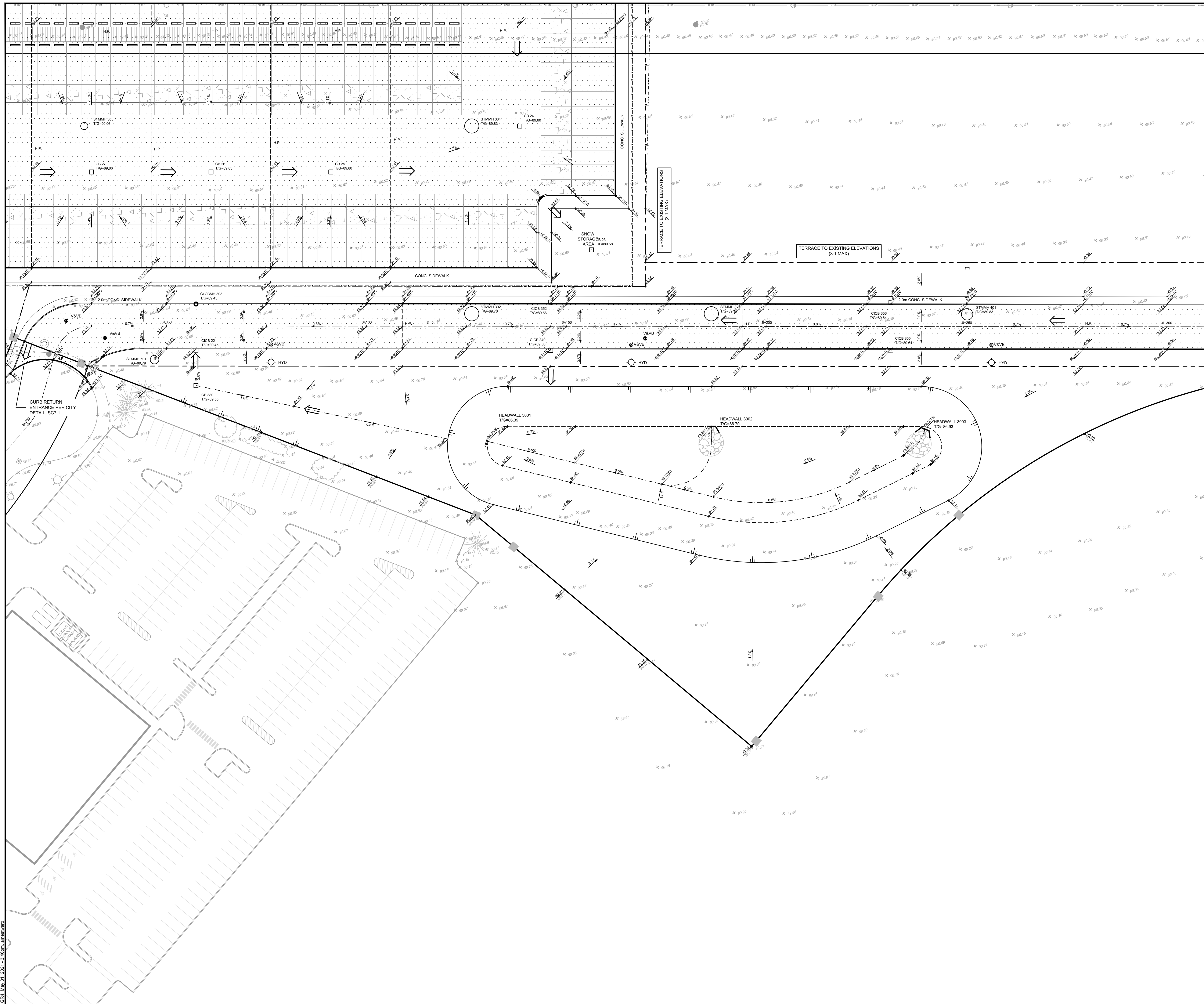
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REFER TO 121137-NDGR FOR ADDITIONAL NOTES

LOCATION SORTATION FACILITY 99 BILL LEATHER DR., 2 & 20 LEIKIN DR., CITY OF OTTAWA	
DRAWING NAME GRADING PLAN SOUTH-WEST DEVELOPMENT	PROJECT NO. 121137
	REV #1
	121137-GR3

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- LEGEND**
- PROPERTY LINE
 - PROPOSED ELEVATION
 - EXISTING ELEVATION
 - PROPOSED SWALE ELEVATION
 - PROPOSED BUILDING ENTRANCE
 - DIRECTION OF MAJOR OVERLAND FLOW
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 - PROPOSED FIRE HYDRANT
 - ⊗ V&VB PROPOSED VALVE AND VALVE BOX
 - ⊗ PIV PROPOSED POST INDICATOR VALVE
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 - SWALE c/w SUBDRAIN AND DIRECTION OF FLOW
 - TERRACING 2:1 SLOPE MAX (UNLESS OTHERWISE INDICATED)
 - BOTTOM OF SLOPE
 - SLOPE AND DIRECTION
 - +□ PROPOSED SITE LIGHTING (REFER TO ARCHITECTURAL DRAWINGS)
 - EXISTING UTILITY POLE C/W GUY WIRES
 - ⊗ V&VC EXISTING VALVE & VALVE CHAMBER
 - ⊗ V&VB EXISTING VALVE & VALVE BOX
 - EXISTING HYDRANT
 - EXISTING SANITARY MANHOLE
 - EXISTING STORM MANHOLE
 - EXISTING CATCHBASIN
 - ☆ EXISTING LIGHT STANDARD
 - X EXISTING FENCE

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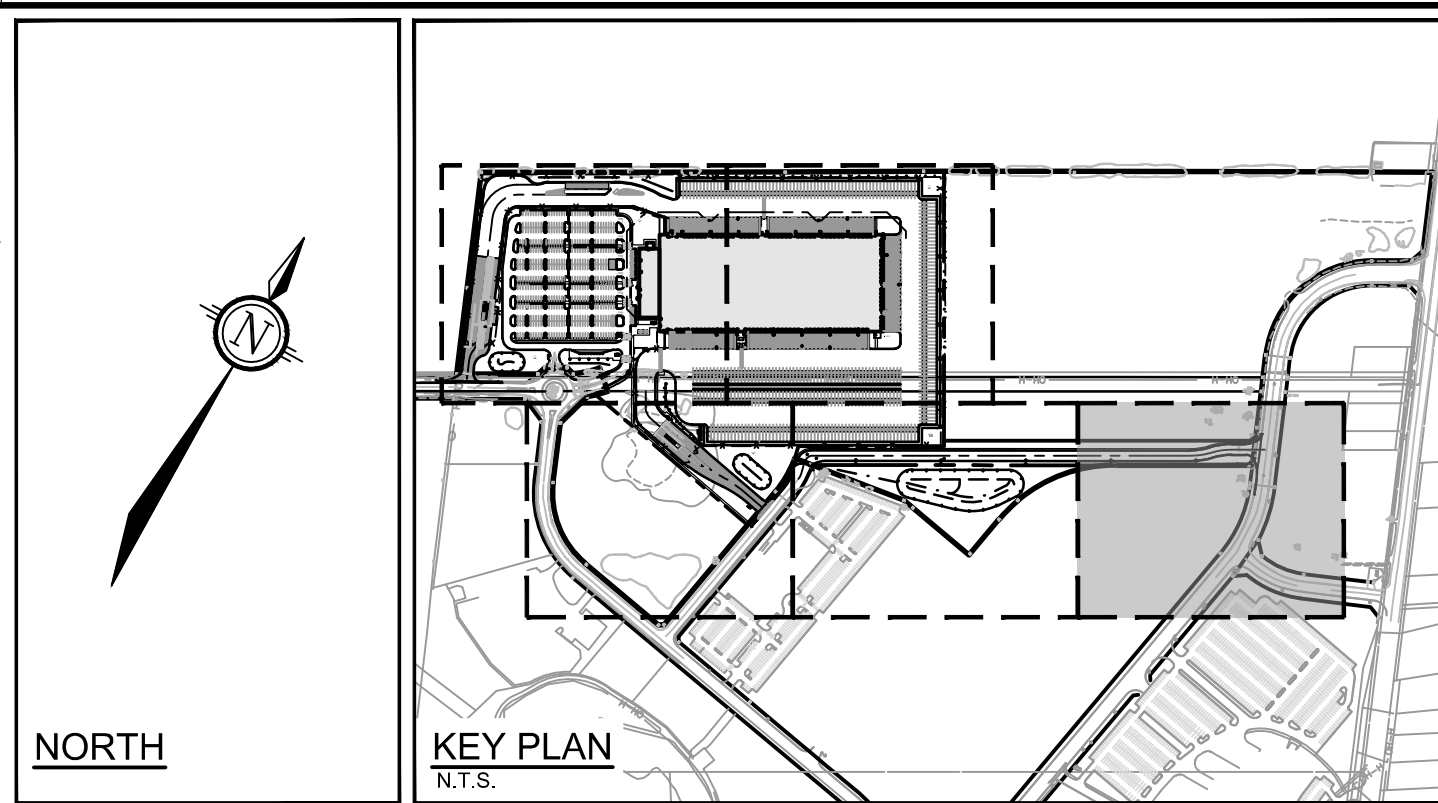
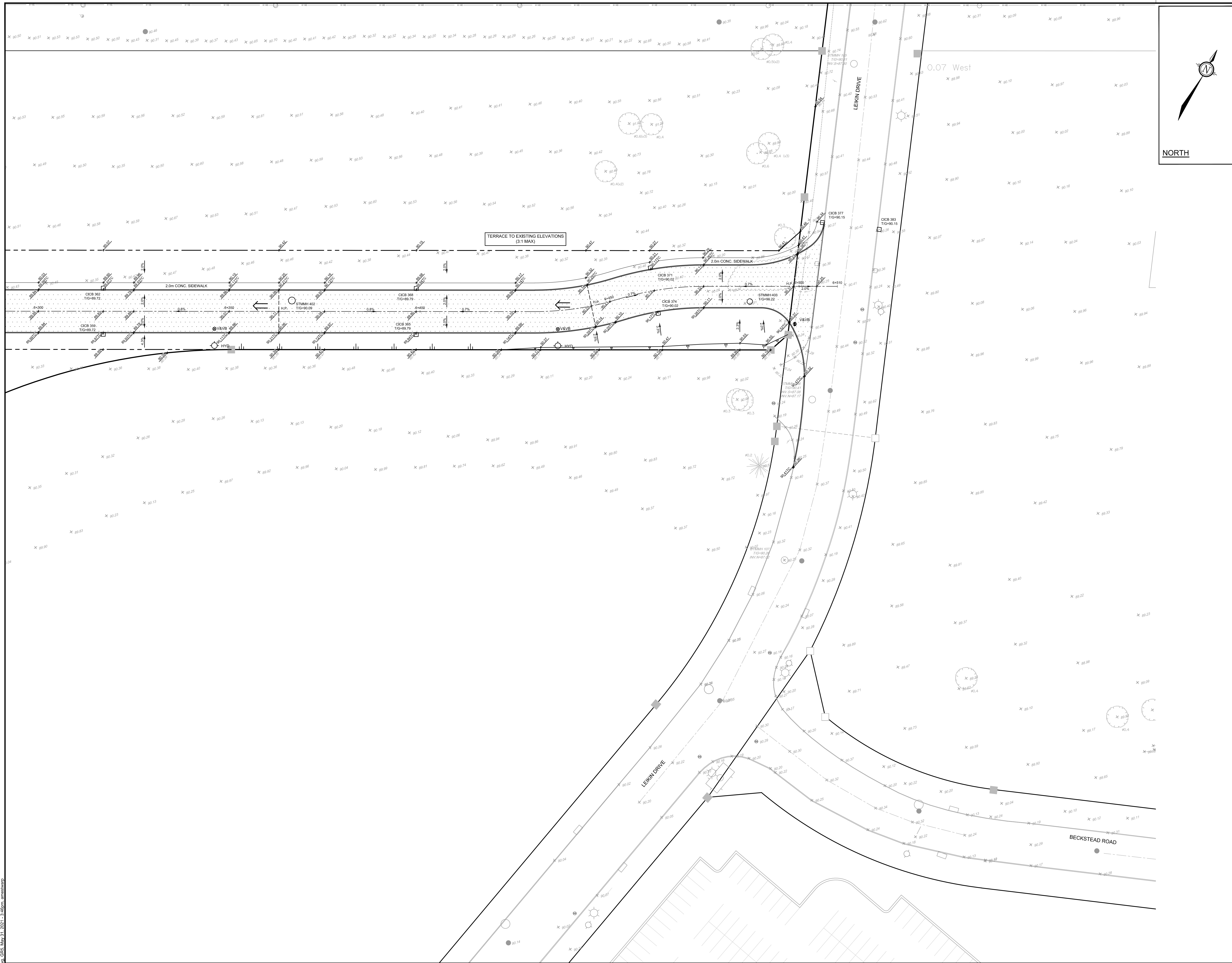
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REFER TO 121137-NDGR FOR ADDITIONAL NOTES

LOCATION SORTATION FACILITY 99 BILL LEATHER DR., 2 & 20 LEIKIN DR., CITY OF OTTAWA		PROJECT NO. 121137
DRAWING NAME GRADING PLAN SOUTH-EAST DEVELOPMENT		REV #1
DRAWING NO. 121137-GR4		

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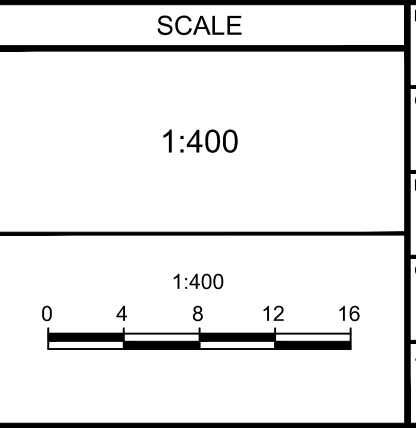
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 - DIRECTION OF MAJOR OVERLAND FLOW
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 - PROPOSED FIRE HYDRANT
 - PROPOSED VALVE AND VALVE BOX
 - PROPOSED POST INDICATOR VALVE
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 - STMH EXISTING STORM MANHOLE
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LOCATION SORTATION FACILITY 99 BILL LEATHER DR. 2 & 20 LEIKIN DR, CITY OF OTTAWA	
DRAWING NAME GRADING PLAN PRIVATE ROAD	PROJECT No. 121137
REV #1	REV #1
DRAWING No. 121137-GR5	

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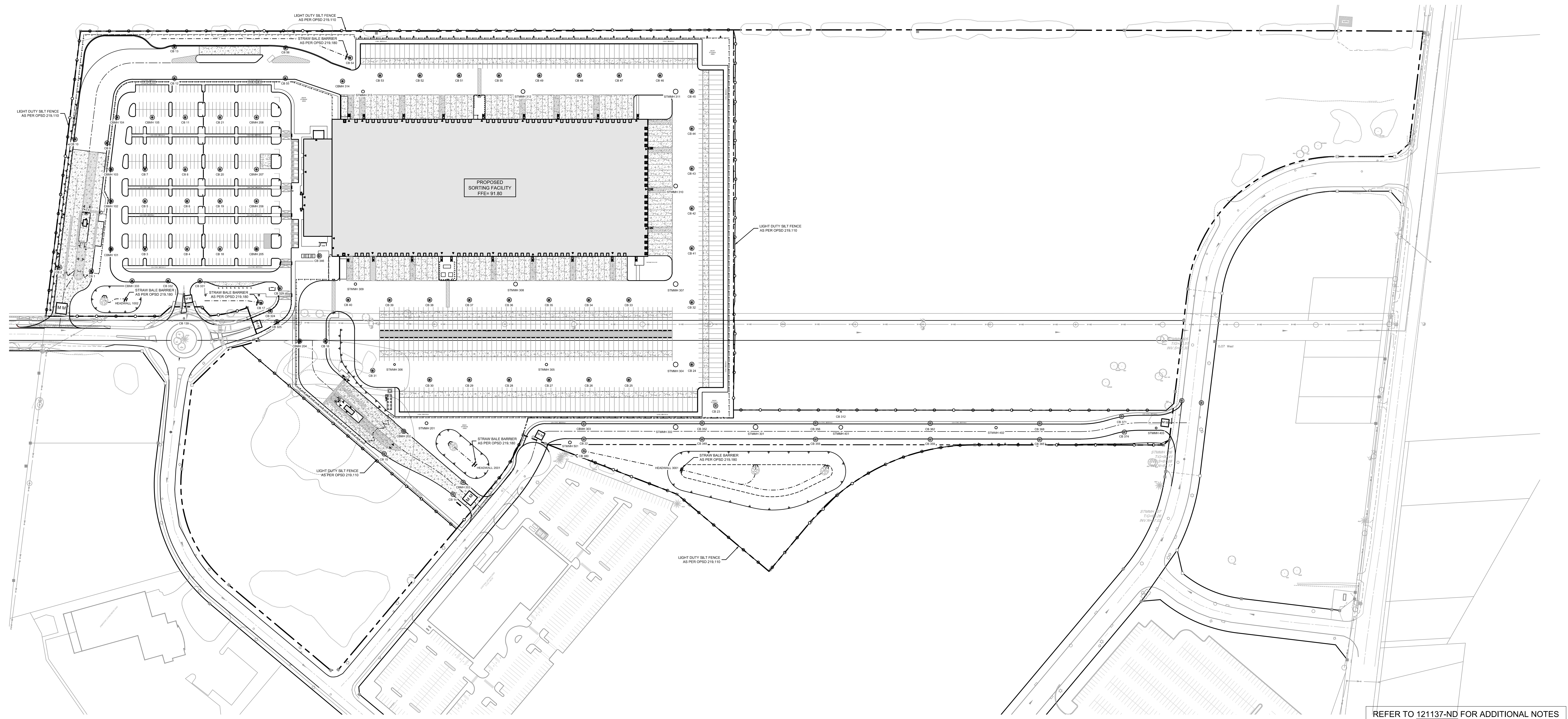
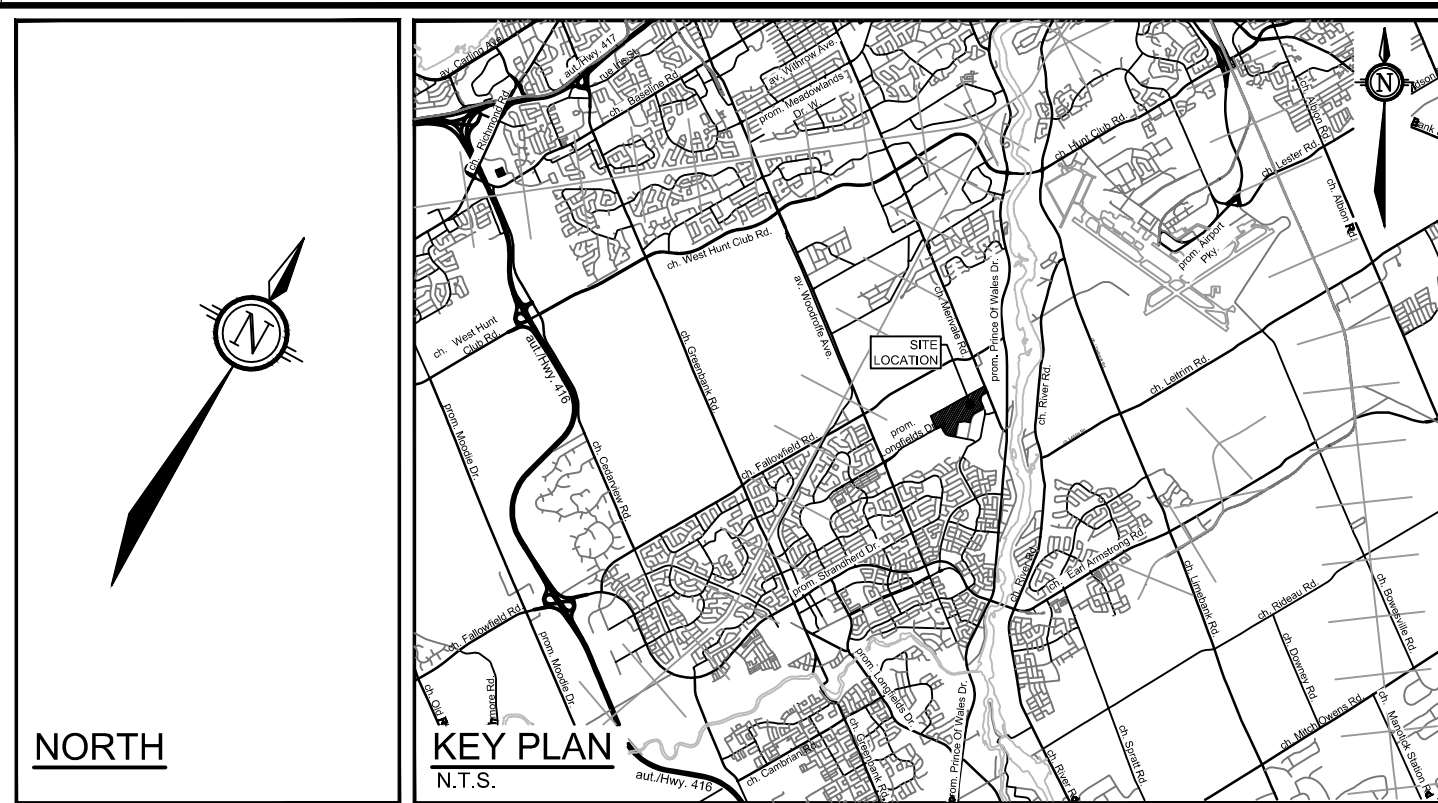
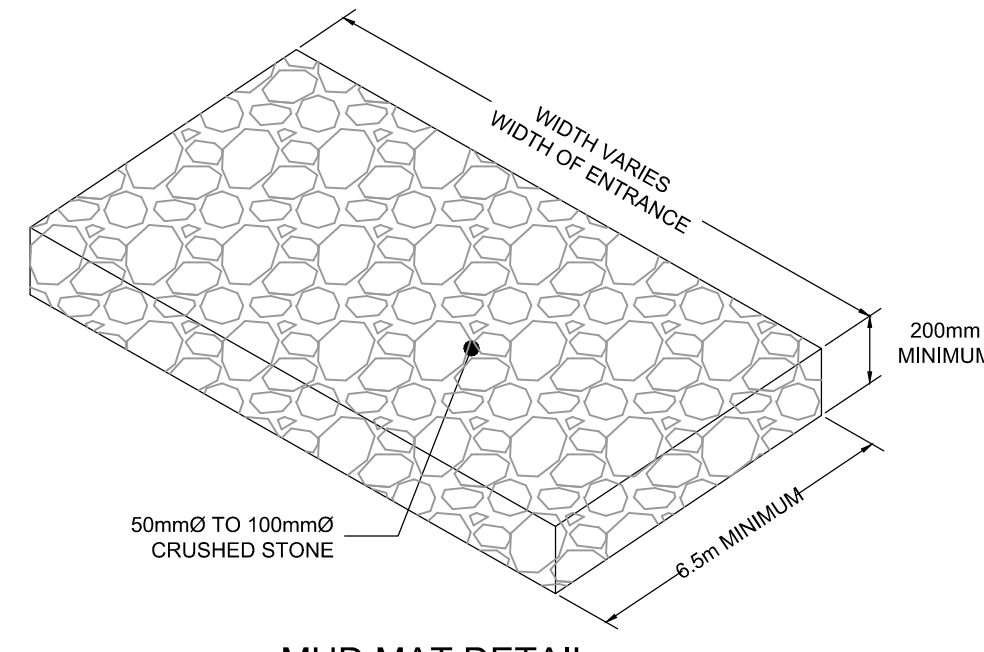
PL-487-2017 - 03/09/2017

EROSION AND SEDIMENT CONTROL NOTES:

- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
- 1) THE OWNER AGREES TO PREPARE AND IMPLEMENT AN EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA, APPROPRIATE TO THE SITE CONDITIONS, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.) AND DURING ALL PHASES OF SITE PREPARATION AND CONSTRUCTION IN ACCORDANCE WITH THE CURRENT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL SUCH AS BUT NOT LIMITED TO INSTALLING FILTER CLOTHS ACROSS MANHOLE/CATCHBASIN LIDS TO PREVENT SEDIMENTS FROM ENTERING STRUCTURES AND INSTALL AND MAINTAIN A LIGHT DUTY SILT FENCE BARRIER AS REQUIRED.
 - 2) THE CONTRACTOR SHALL PLACE FILTER BAGS UNDER THE CATCHBASIN AND MANHOLE GRATES FOR THE DURATION OF CONSTRUCTION AND WILL REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION.
 - 3) SILT FENCING FOR ENTIRE PERIMETER OF SITE, SHALL BE UTILIZED TO CONTROL EROSION FROM THE SITE DURING CONSTRUCTION.
 - 4) THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
 - 5) PROVIDE MUD MATS AT ALL CONSTRUCTION ACCESS POINTS TO MINIMIZE SEDIMENT TRANSPORT OFFSITE.
 - 6) EROSION AND SEDIMENT CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY OF OTTAWA SITE INSPECTOR OR CONSERVATION AUTHORITY.

LEGEND

- PROPERTY LINE
- PROPOSED SWALE
- TERRACING 3:1 SLOPE MAX (UNLESS OTHERWISE INDICATED)
- PROPOSED FILTER BAGS AT CATCHBASINS, CATCHBASIN MANHOLES AND TRENCHDRAINS
- MM PROPOSED MUD MAT
- PROPOSED CHAINLINK FENCE (REFER TO LANDSCAPE)
- PROPOSED POST AND RAIL FENCE (REFER TO LANDSCAPE)
- LIGHT DUTY SILT FENCE (OPSD 219.110)
- PROPOSED STORM MANHOLE
- PROPOSED CATCHBASIN MANHOLE
- PROPOSED CATCHBASIN
- PROPOSED BUILDING ENTRANCE
- STRAWBALE CHECK DAM (OPSD 219.180)
- RIP-RAP
- STM MH ○ EXISTING STORM MANHOLE
- CB □ EXISTING CATCHBASIN
- LS ○ EXISTING LIGHT STANDARD
- X --- EXISTING FENCE



REFER TO 121137-ND FOR ADDITIONAL NOTES

NOT FOR CONSTRUCTION

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

NO.	REVISION	DATE	BY
1.	ISSUED FOR SITE PLAN APPROVAL	MAY 31/2021	MJH

SCALE	
1:1250	1:1250
0 10 20 30 40 50	

DESIGN	MJH/ARM
CHECKED	JLS
DRAWN	MJH/ARM
CHECKED	JLS
APPROVED	JLS

FOR REVIEW ONLY

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LOCATION SORTATION FACILITY 99 BILL LEATHEM DR, 2 & 20 LEIKIN DR, CITY OF OTTAWA	PROJECT No. 121137
DRAWING NAME EROSION AND SEDIMENT CONTROL PLAN	REV #1
DRAWING No. 121137-ESC	

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