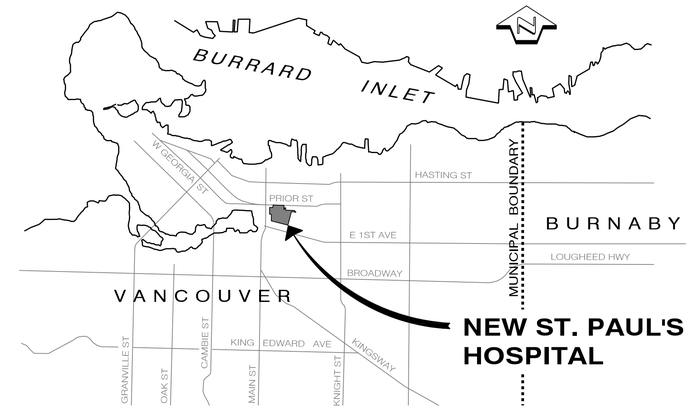
PROVIDENCE HEALTH CARE / IBI GROUP

New St. Paul's Hospital
Preliminary Roadway Drawings

ISSUED FOR FINAL PROJECT AGREEMENT



LOCATION PLAN

GENERAL NOTES

1. ALL CONSTRUCTION, MATERIALS AND TESTING TO BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. THE CONTRACTOR SHALL MAINTAIN ON SITE A COPY OF THE CONTRACT DOCUMENTS AND ENSURE ALL TRADES ARE THOROUGHLY FAMILIAR WITH THE APPLICABLE SECTIONS.
3. EXISTING UTILITIES SHOWN ARE BASED ON AVAILABLE INFORMATION AND ARE NOT NECESSARILY ACCURATE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO EXPOSE AND VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING SERVICES TWO WEEKS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS.
4. THE CONTRACTOR SHALL TAKE EXTREME CARE WHEN WORKING NEAR OR AROUND EXISTING SERVICES. ANY DISTURBANCE TO THESE SERVICES SHALL BE REPLACED OR MADE GOOD TO THE SATISFACTION OF THE OWNER AND THE CITY OF VANCOUVER.
5. DISTURBANCE TO ANY LANDSCAPING OR IMPROVEMENT SHALL BE RESTORED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER. IN SOME CASES, THE CITY OF VANCOUVER MAY REQUIRE THE CONTRACTOR TO OBTAIN WRITTEN ACCEPTANCE OF THE RESTORATION FROM THE AFFECTED PROPERTY OWNERS.
6. ALL ELEVATIONS ARE IN METRES WITH RESPECT TO CITY OF VANCOUVER GEODETIC DATUM.
7. THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS REQUIRED FOR THE PROPOSED WORKS HAVE BEEN OBTAINED FROM ALL AUTHORITIES AND AGENCIES PRIOR TO COMMENCEMENT OF THE WORK.
8. PRIOR TO MOBILIZATION THE CONTRACTOR SHALL ARRANGE AND ATTEND PRE-CONSTRUCTION MEETING(S) WITH APPROPRIATE CITY OF VANCOUVER BRANCHES, THE ENGINEER AND THE OWNER.
9. ANY WORK ON OR IN PROXIMITY TO EXISTING CITY INFRASTRUCTURE SHALL REQUIRE NOTICE OF AT LEAST 72 HOURS FOR INSPECTION BY CITY CREWS.

SURVEY MONUMENT DATA

Point	Northing	Easting	Elevation	Location / Description
X	X	X	X	X
X	X	X	X	X
X	X	X	X	X
X	X	X	X	X

DRAWING LIST

LEGEND

	DESIGN	EXISTING
DESIGN ℄		
CURB (CoV STD DWG C4.1)		
TYPE E CURB (CoV STD DWG C4.5)		
SIDEWALK (CoV STD DWGS C1.1 AND C2.1)		
SIDEWALK RAMP (CoV STD DWGS C8.1 AND C8.3)		
PROPERTY LINE		
RIGHT-OF-WAY		
CATCHBASIN (CoV STD DWGS S11.1 AND S11.2)		
CATCHBASIN WITH CURB INLET (CoV STD DWGS S11.1 AND S11.3)		
FENCE		
TREE		
EDGE OF PAVEMENT		

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
5	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
4	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
3	20-04-20	75% DESIGN SUBMISSION	D.A.	
2	20-02-20	ISSUED FOR FEBRUARY ADDENDUM	D.Y.	
1	19-07-12	50% DESIGN SUBMISSION	D.Y.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: -

Design: D. YOUNG
Drawn: D. ARNOLD
Plot Date: 21/01/18
Plot Time: 1:06:59 PM

Title: Cover Sheet

Drawing Number: AE40-2.2-001
Revision: 5

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GENERAL

1. ALL CONSTRUCTION TO BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS FROM THE CITY OF VANCOUVER ENGINEERING DESIGN MANUAL AND SUPPLEMENTARY STANDARD DETAIL DRAWINGS (SEPT. 2018), STREET RESTORATION MANUAL (AUG. 2008), AND THE APPLICABLE MASTER MUNICIPAL CONSTRUCTION DOCUMENT (MMCD) SPECIFICATIONS UNLESS OTHERWISE NOTED.
2. CONTACT BC ONECALL (604-257-1900) TO OBTAIN UTILITY LOCATION INFORMATION 1-2 WEEKS PRIOR TO CONSTRUCTION.
3. MAINTAIN ON-SITE COPIES OF THE MOST CURRENT SET OF DESIGN DRAWINGS AT ALL TIMES. MARK UP IN RED ANY FIELD REVISIONS OR APPROVED DEVIATIONS FROM THE DESIGN. COPIES OF THE MARKED UP DRAWINGS TO BE SUBMITTED TO THE ENGINEER PRIOR TO COMPLETION OF CONSTRUCTION.
4. EXISTING UTILITIES ARE SHOWN BASED ON AVAILABLE AS-CONSTRUCTED RECORD DRAWINGS. FIELD VERIFY AND EXPOSE THE LOCATION OF ALL EXISTING SERVICES PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS.
5. DIMENSIONS, GRADES, COORDINATES, AND DETAILS OF THE DESIGN ARE TO BE CONFIRMED IN THE FIELD PRIOR TO CONSTRUCTION. IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS.
6. OBTAIN ALL PERMITS AND LICENSES PRIOR TO CONSTRUCTION AND ENSURE THAT ALL APPROVALS REQUIRED FOR THE WORK HAVE BEEN OBTAINED.
7. USE EXTREME CARE WHEN WORKING NEAR EXISTING SERVICES AND INFRASTRUCTURE. ALL SERVICES AND INFRASTRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED THE ORIGINAL OR BETTER CONDITION AND TO THE SATISFACTION OF THE ENGINEER.
8. FOR ANY QUESTIONS, PROPOSED CHANGES, OR CONSTRUCTION ISSUES CONTACT CARSEN CHANT OR JESSIE GRESLEY-JONES AT (604) 873-7944.
9. FOR REMOVAL OF STREET FURNITURE, CONTACT MATHEW SLAZYK AT (604) 673-8487 A MINIMUM OF 2 WEEKS PRIOR TO CONSTRUCTION.
10. ALL SURVEY MONUMENTS, POSTS, OR IRON PINS MUST BE PROTECTED AND ANY DAMAGE SHALL BE REPAIRED PRIOR TO COMPLETION OF CONSTRUCTION.

ROADWORKS

1. ALL MANHOLE COVERS, VALVE COVERS, CATCH BASIN RIMS, AND LIDS OF ANY OTHER STRUCTURE OR UTILITY ARE TO BE ADJUSTED TO SUIT FINAL GRADES.
2. ALL LOOSE AND ORGANIC MATERIALS ARE TO BE EXCAVATED AND REMOVED FROM ROADWAY AS APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING OF ANY ROAD GRAVELS.
3. ALL SUBGRADES TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
4. CHANGES IN GRADE TO BE FORMED WITH SMOOTH CURVES.
5. TESTING OF ROAD MATERIALS AND COMPACTION TO BE COMPLETED IN ACCORDANCE WITH THE SRM.
6. CONTACT RAYMOND SOLIMAN AT (604) 673-8014 MINIMUM 2 WEEKS IN ADVANCE OF ANY SIDEWALK OR MEDIAN CONCRETE WORK TO OBTAIN SIGN POLE SLEEVES/BASES AND CONFIRM LOCATIONS.
7. FOR ALL CURB RAMPS, CONTACT RAYMOND SOLIMAN AT (604) 673-8014 TO HAVE CREWS GHOST IN CROSSWALK LOCATIONS.
8. SCORING PATTERNS FOR CURB RAMPS SHALL CONFORM TO CITY STANDARD DRAWINGS C8.1 OR C8.2 AND INDICATE DIRECTION OF TRAVEL IN TO CROSSWALK.
9. INSTALL ALL SIGNAGE, PARKING METER, AND BUS ID SLEEVES AS PER CITY STANDARD DRAWINGS C19.1, C19.2 AND C19.3. CONTACT RAYMOND SOLIMAN AT (604) 673-8014 TO OBTAIN SIGN PLAN AND LOCATIONS.

EARTHWORKS

1. ALL TREES, SHRUBS AND ORGANICS ARE TO BE REMOVED FROM SITE. TOPSOIL IS TO BE REMOVED FROM THE FOOTPRINT OF THE PROPOSED ROADWAY EMBANKMENTS.
2. ASPHALT AND CONCRETE PAVEMENT IS TO BE REMOVED FROM THE FOOTPRINT OF THE PROPOSED ROADWAY EMBANKMENTS AND DISPOSED OF OFF-SITE.
3. OBTAIN GEOTECHNICAL ENGINEER'S APPROVAL OF THE STRIPPED AND PREPARED SUBGRADE PRIOR TO PLACEMENT OF ANY FILL.
4. OBTAIN GEOTECHNICAL ENGINEER'S APPROVAL OF THE PROPOSED FILL PLACEMENT PROCEDURE PRIOR TO COMMENCING PLACEMENT OF FILL MATERIAL.
5. EMBANKMENT FILL TO BE IN ACCORDANCE WITH SUPPLEMENTARY SPECIFICATION 02224 OF THE STREET RESTORATION MANUAL.
6. EMBANKMENT FILL TO BE PLACED AND COMPACTED IN HORIZONTAL LIFTS NOT EXCEEDING 300mm IN THICKNESS AND COMPACTED TO 95% MPD.
7. CONTRACTOR TO PERIODICALLY REVIEW FILL PLACEMENT PROCEDURES WITH THE GEOTECHNICAL ENGINEER AND ADJUST THE METHOD OF CONSTRUCTION AS REQUIRED.

ENVIRONMENTAL

1. ALL WORKS TO BE IN COMPLIANCE WITH CITY OF VANCOUVER, BC MINISTRY OF ENVIRONMENT AND FEDERAL FISHERIES REQUIREMENTS.
2. IMMEDIATELY NOTIFY THE ENGINEER OF RECORD AND THE CITY ENGINEER OF ANY SUSPECTED ARCHAEOLOGICAL MATERIALS UNCOVERED DURING EXCAVATION.
3. PROVIDE DITCHING, SILT FENCING, AND CONTAINMENT FACILITIES AS REQUIRED TO PREVENT DISCHARGE OF SEDIMENT FROM WORK AREA AS DIRECTED BY THE ENVIRONMENTAL CONSULTANT.
4. ALL TEMPORARY FILL SLOPES AND STOCK PILES TO BE PROTECTED FROM WEATHER EROSION. FINISHED SLOPES TO BE HYDRO-SEEDED WITH A BONDED FIBRE MATRIX OR AS DEFINED BY THE LANDSCAPE CONSULTANT WITHIN SEVEN DAYS OF COMPLETION

STREET TREES

1. ALL TREE INSTALLATIONS TO BE COMPLETED IN ACCORDANCE WITH THE CITY OF VANCOUVER STREET TREE MANUAL (STM) REVISED 2011 UNLESS OTHERWISE NOTED.
2. PRIOR TO CONSTRUCTION, PROTECT ALL EXISTING TREES WITHIN THE CONSTRUCTION AREA WITH TREE PROTECTION FENCING AS OUTLINED IN THE STM.
3. PRIOR TO CONSTRUCTION, IDENTIFY ANY POTENTIAL TREE IMPACTS AND CONTACT CABOT LYFORD AT (604) 257-8587 FOR FURTHER DIRECTION.
4. ALL ELECTRICAL CONDUITS TO BE LOCATED AT BACK OF CURB TO ALLOW FOR TREE PLANTING IN BOULEVARD UNLESS OTHERWISE INSTRUCTED.

ATTENTION

1. THE CITY OF VANCOUVER ASSUMES NO RESPONSIBILITY FOR THE CORRECTNESS OF THE INFORMATION SHOWN.
2. ALL DIMENSIONS SHOWN ON THIS PLAN ARE AS DESIGNED AND NOT AS CONSTRUCTED, AND SHOULD BE FIELD CHECKED BY THE CONTRACTOR PRIOR TO STARTING ANY CONSTRUCTION.
3. ELEVATIONS & COORDINATES SHOWN ON THIS PLAN ARE IN METRES BASED ON GVRD NAD83 DATUM (ISSUED MARCH 31, 2005).

PRELIMINARY

InterCAD
CONSULTING ENGINEERS

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5	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
4	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
3	20-04-20	75% DESIGN SUBMISSION	D.A.	
2	20-02-20	ISSUED FOR FEBRUARY ADDENDUM	D.Y.	
1	19-07-12	50% DESIGN SUBMISSION	D.Y.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: -

Design: D. YOUNG
Drawn: D. ARNOLD
Plot Date: 21/01/18
Plot Time: 12:18:38 PM

Title: Standard Notes

Drawing Number: AE40-2.2-002
Revision: 5

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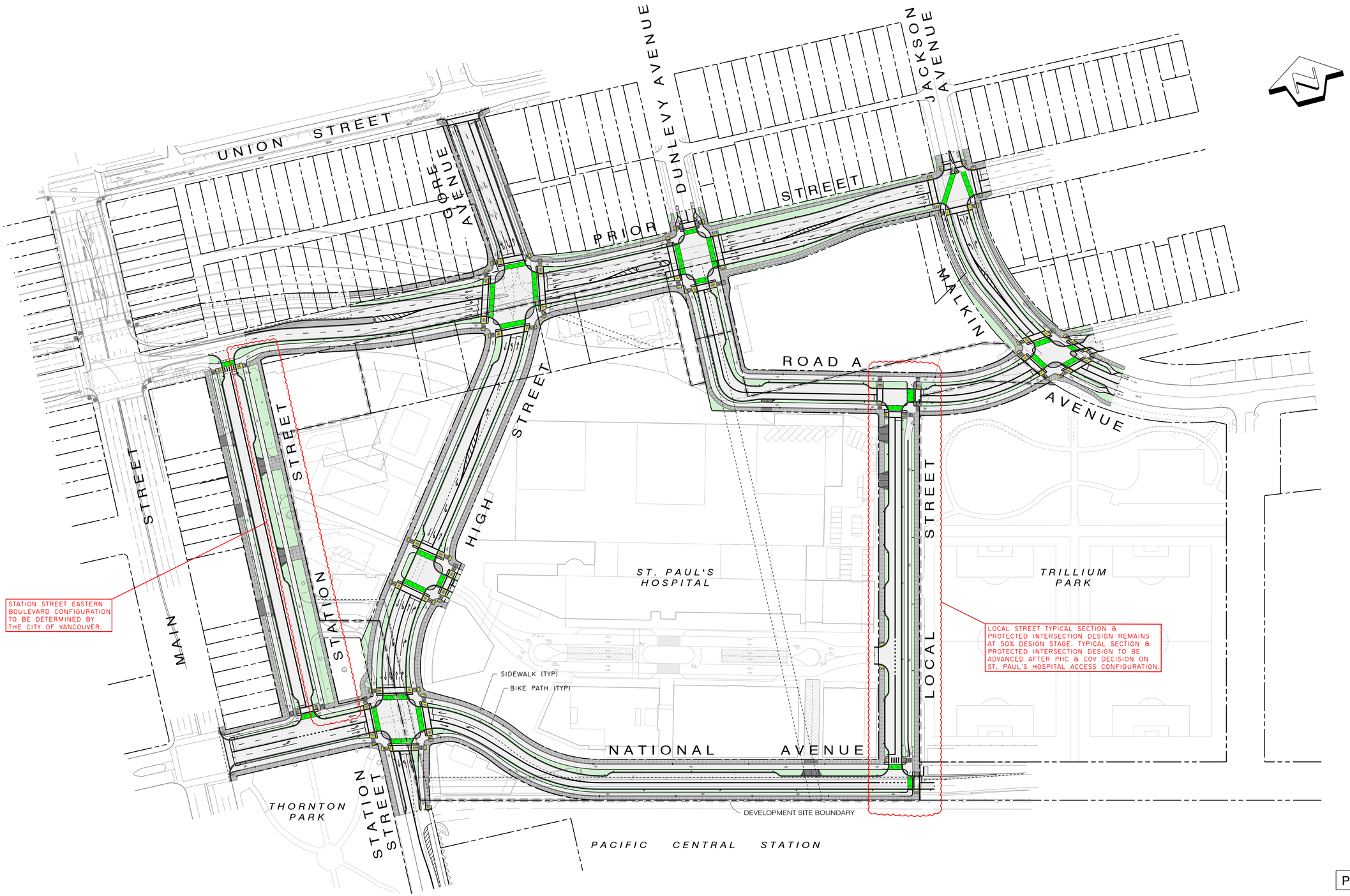

PRELIMINARY

InterCAD
CONSULTING ENGINEERS
1111 West 8th Avenue
Vancouver, BC V6H 1C5
Tel 604.739.7707 / Fax 604.739.7727

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Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 20 40 60 — 1:1000

Design: D. YOUNG
Drawn: D. ARNOLD
Plot Date: 21/01/18
Plot Time: 12:19:01 PM

Title: Key Plan

Drawing Number: AE40-2.2-090
Revision: 5

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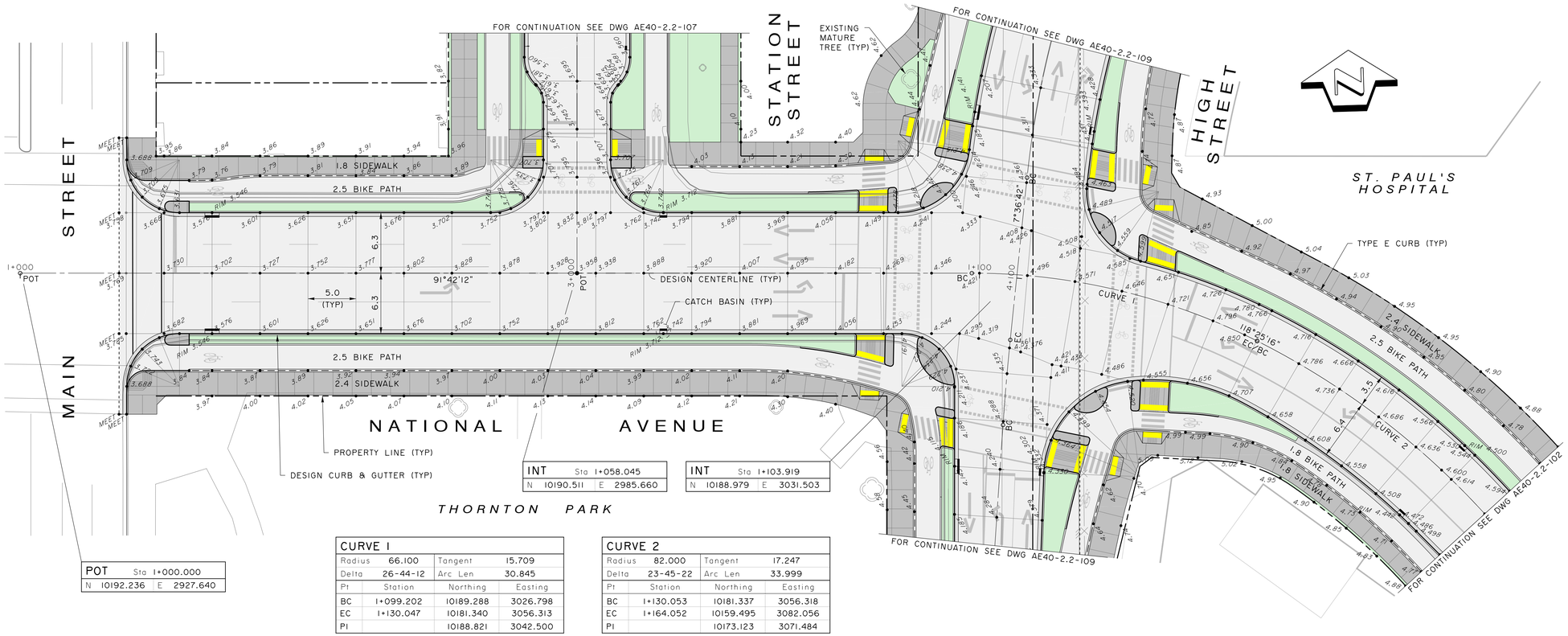


CURVE 1			
Radius	66.100	Tangent	15.709
Delta	26-44-12	Arc Len	30.845
Pt	Station	Northing	Easting
BC	1+099.202	10189.288	3026.798
EC	1+130.047	10181.340	3056.313
PI		10188.821	3042.500

CURVE 2			
Radius	82.000	Tangent	17.247
Delta	23-45-22	Arc Len	33.999
Pt	Station	Northing	Easting
BC	1+130.053	10181.337	3056.318
EC	1+164.052	10159.495	3082.056
PI		10173.123	3071.484

KEY PLAN

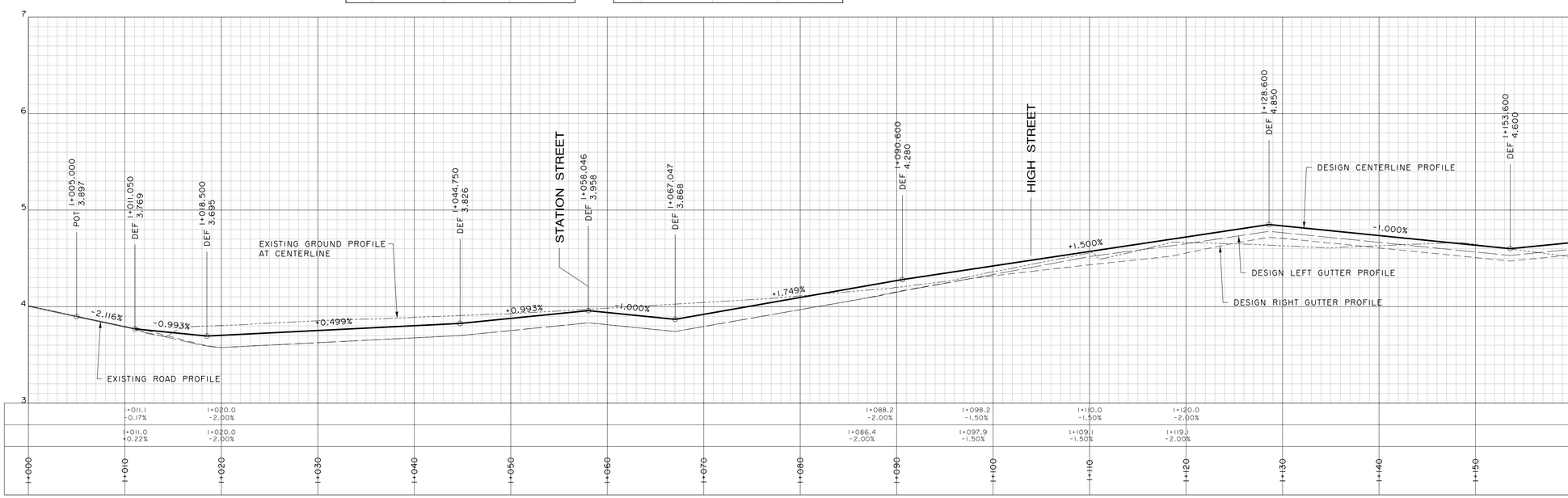
NOTES:

1. SIDEWALK TO BE IN ACCORDANCE WITH CoV STD DETAIL C1.1, C2.1 AND C2.2 WITH SAW CUT JOINTS. CONTRACTOR TO CONFIRM SCORELINE LAYOUT WITH ENGINEER PRIOR TO SAW CUTTING.
2. CURB RAMPS TO BE IN ACCORDANCE WITH CoV STD DETAIL C8.1, C8.2, C8.3 AND C8.4. TACTILE DOME STRIPS ARE REQUIRED AT ALL CURB RAMPS.
3. THE CONTRACTOR SHALL CONFIRM LOCATION AND ELEVATION OF EXISTING CURB & GUTTER AND REVIEW LAYOUT WITH ENGINEER TWO WEEKS PRIOR TO CONSTRUCTING CURB & GUTTER TIE-INS.
4. LOCATION OF DRIVEWAYS AND WHEELCHAIR RAMPS SHALL BE CONFIRMED ON SITE BY THE CITY OF VANCOUVER PRIOR TO CONSTRUCTION OF CURB & GUTTER, AND SHALL CONFORM WITH CoV STREET RESTORATION MANUAL & CoV STD DETAIL C7.1, C7.2 AND C7.3
5. ALL VALVE BOXES, MANHOLES. ETC., SHALL BE ADJUSTED TO FINISHED GRADE IN PAVED AREAS. A PROTECTIVE ASPHALT RAMP SHALL BE PLACED AROUND EACH STRUCTURE TO COMPENSATE FOR FUTURE FINAL LIFT OF PAVEMENT.
6. SUBGRADE AND GRANULAR BASE MATERIALS SHALL BE COMPACTED TO 95% MPD UNLESS OTHERWISE INDICATED. GEOTECHNICAL CONSULTANT TO REVIEW AND APPROVE THE SUBGRADE PRIOR TO PLACING ROAD GRAVELS.
7. FOR TYPICAL SECTIONS SEE DWGS AE40-2.2-401 TO 408.
8. CATCH BASIN RIM ELEVATIONS SHALL BE 30mm BELOW FINISHED GRADE.
9. FOR EARTHWORKS NOTES SEE DWG AE40-2.2-002.
10. CONSTRUCT TEMPORARY ASPHALT FILLETS ON ALL CURBS. FOR DETAIL SEE DWG AE40-2.2-452.

FOR TYPICAL SECTIONS SEE DWG AE40-2.2-401 AND 402

FOR CURB RETURN STRETCH-OUTS SEE DWG AE40-2.2-XXX

FOR CoV STANDARD NOTES SEE DWG AE40-2.2-002



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InterCAD
CONSULTING ENGINEERS

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Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: D. ARNOLD
Plot Date: 21/01/18
Plot Time: 12:19:24 PM

Title: Roadworks Geometrics and Spot Elevations National Avenue Sheet 1 of 3

Drawing Number: AE40-2.2-101
Revision: 5

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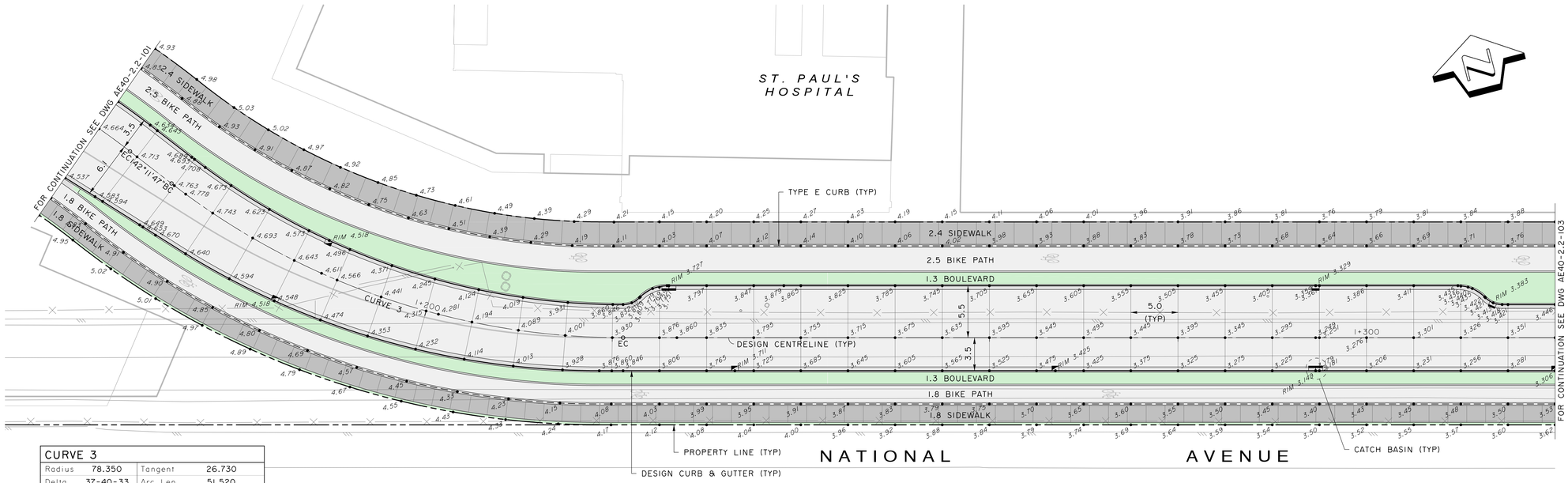
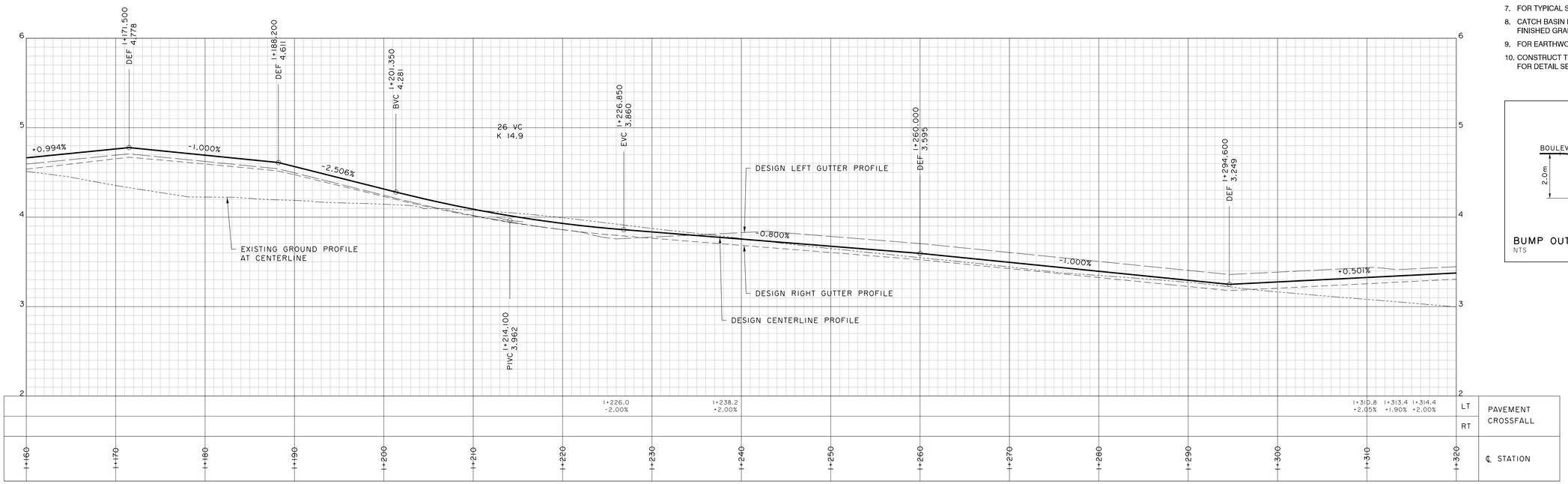


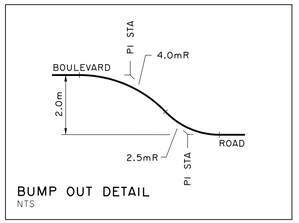
CURVE 3			
Radius	78.350	Tangent	26.730
Delta	37-40-33	Arc Len	51.520
Pt	Station	Northing	Easting
BC	1+169.624	10155.093	3085.471
EC	1+221.145	10127.270	3127.733
PI		10133.972	3101.856

KEY PLAN

NOTES:

1. SIDEWALK TO BE IN ACCORDANCE WITH CoV STD DETAIL C1.1, C2.1 AND C2.2 WITH SAW CUT JOINTS. CONTRACTOR TO CONFIRM SCORELINE LAYOUT WITH ENGINEER PRIOR TO SAW CUTTING.
2. CURB RAMPS TO BE IN ACCORDANCE WITH CoV STD DETAIL C8.1, C8.2, C8.3 AND C8.4. TACTILE DOME STRIPS ARE REQUIRED AT ALL CURB RAMPS.
3. THE CONTRACTOR SHALL CONFIRM LOCATION AND ELEVATION OF EXISTING CURB & GUTTER AND REVIEW LAYOUT WITH ENGINEER TWO WEEKS PRIOR TO CONSTRUCTING CURB & GUTTER TIE-INS.
4. LOCATION OF DRIVEWAYS AND WHEELCHAIR RAMPS SHALL BE CONFIRMED ON SITE BY THE CITY OF VANCOUVER PRIOR TO CONSTRUCTION OF CURB & GUTTER, AND SHALL CONFORM WITH CoV STREET RESTORATION MANUAL & CoV STD DETAIL C7.1, C7.2 AND C7.3
5. ALL VALVE BOXES, MANHOLES. ETC., SHALL BE ADJUSTED TO FINISHED GRADE IN PAVED AREAS. A PROTECTIVE ASPHALT RAMP SHALL BE PLACED AROUND EACH STRUCTURE TO COMPENSATE FOR FUTURE FINAL LIFT OF PAVEMENT.
6. SUBGRADE AND GRANULAR BASE MATERIALS SHALL BE COMPACTED TO 95% MPD UNLESS OTHERWISE INDICATED. GEOTECHNICAL CONSULTANT TO REVIEW AND APPROVE THE SUBGRADE PRIOR TO PLACING ROAD GRAVELS.
7. FOR TYPICAL SECTIONS SEE DWGS AE40-2.2-401 TO 408.
8. CATCH BASIN RIM ELEVATIONS SHALL BE 30mm BELOW FINISHED GRADE.
9. FOR EARTHWORKS NOTES SEE DWG AE40-2.2-002.
10. CONSTRUCT TEMPORARY ASPHALT FILLETS ON ALL CURBS. FOR DETAIL SEE DWG AE40-2.2-452.





BUMP OUT DETAIL
NTS

FOR TYPICAL SECTION SEE DWG AE40-2.2-402

FOR CURB RETURN STRETCH-OUTS SEE DWG AE40-2.2-XXX

FOR CoV STANDARD NOTES SEE DWG AE40-2.2-002

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Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 12:19:50 PM

Title: Roadworks Geometrics and Spot Elevations National Avenue Sheet 2 of 3

Drawing Number: AE40-2.2-102
Revision: 5

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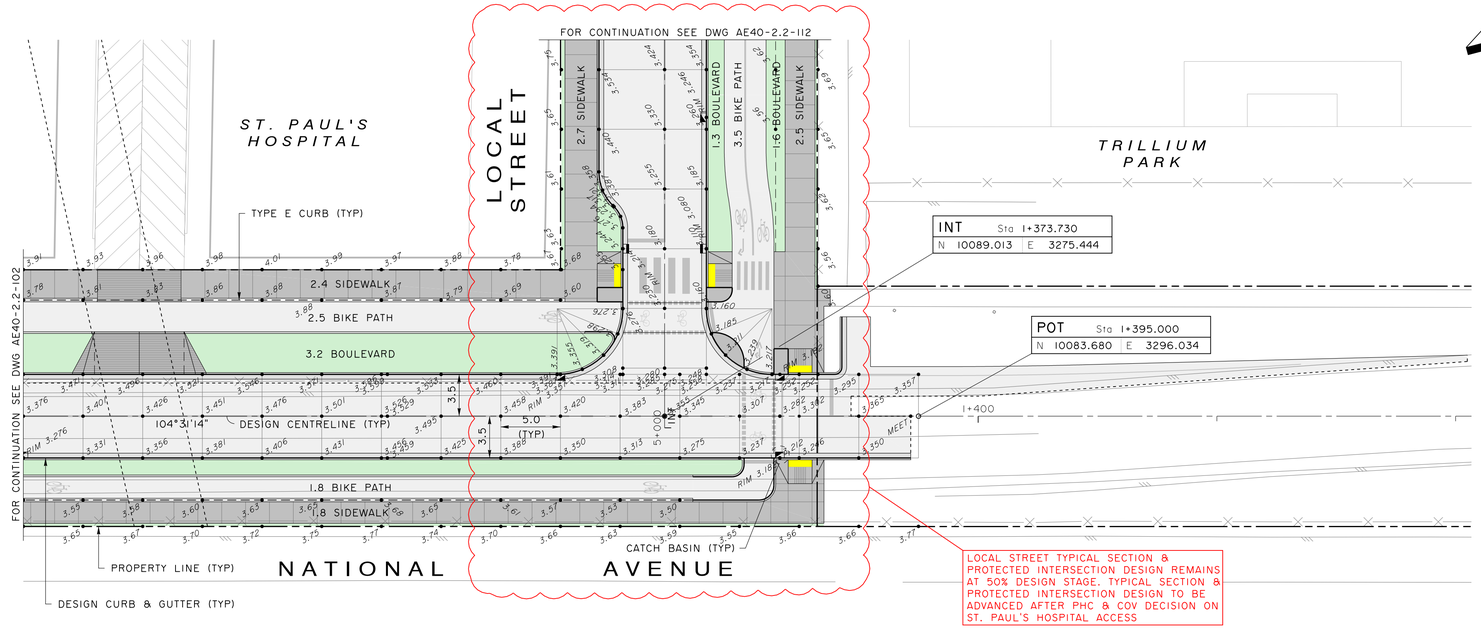

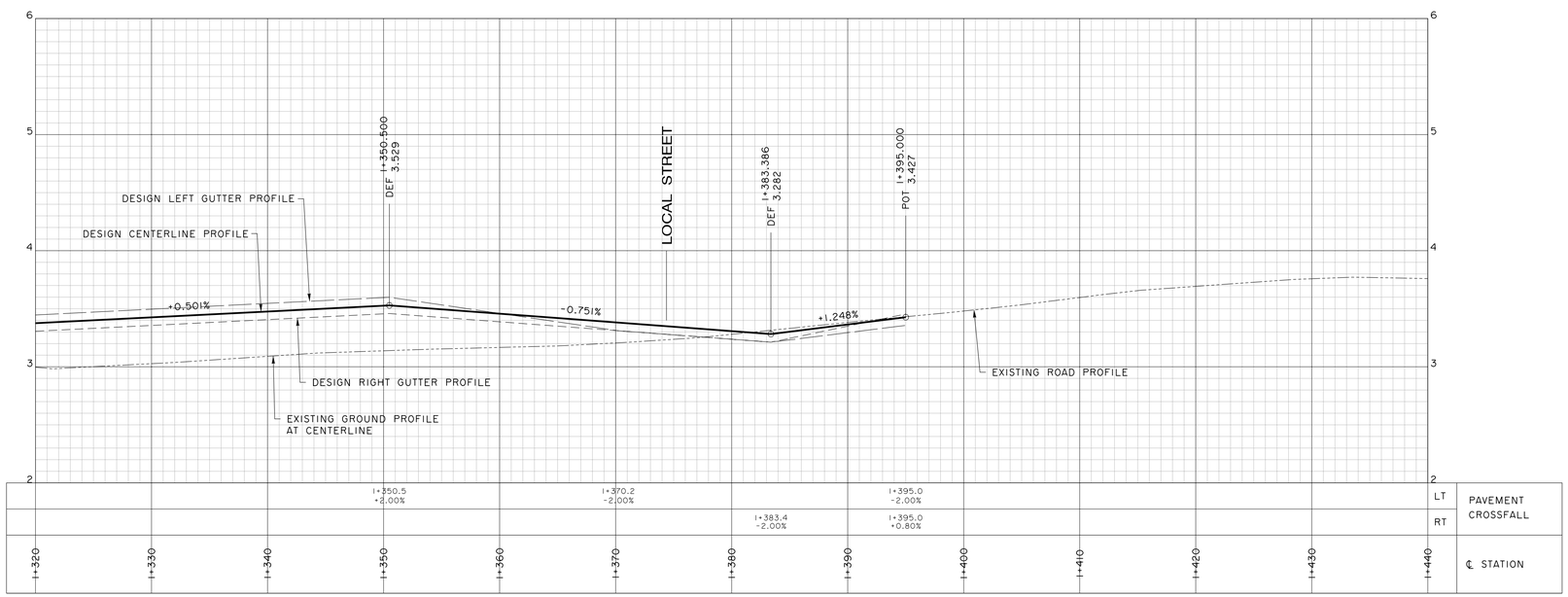

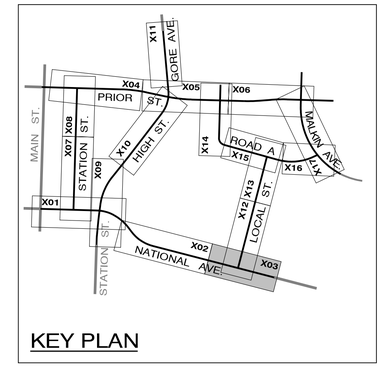

KEY PLAN

NOTES:

1. SIDEWALK TO BE IN ACCORDANCE WITH CoV STD DETAIL C1.1, C2.1 AND C2.2 WITH SAW CUT JOINTS. CONTRACTOR TO CONFIRM SCORELINE LAYOUT WITH ENGINEER PRIOR TO SAW CUTTING.
2. CURB RAMPS TO BE IN ACCORDANCE WITH CoV STD DETAIL C8.1, C8.2, C8.3 AND C8.4. TACTILE DOME STRIPS ARE REQUIRED AT ALL CURB RAMPS.
3. THE CONTRACTOR SHALL CONFIRM LOCATION AND ELEVATION OF EXISTING CURB & GUTTER AND REVIEW LAYOUT WITH ENGINEER TWO WEEKS PRIOR TO CONSTRUCTING CURB & GUTTER TIE-INS.
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5. ALL VALVE BOXES, MANHOLES. ETC., SHALL BE ADJUSTED TO FINISHED GRADE IN PAVED AREAS. A PROTECTIVE ASPHALT RAMP SHALL BE PLACED AROUND EACH STRUCTURE TO COMPENSATE FOR FUTURE FINAL LIFT OF PAVEMENT.
6. SUBGRADE AND GRANULAR BASE MATERIALS SHALL BE COMPACTED TO 95% MPD UNLESS OTHERWISE INDICATED. GEOTECHNICAL CONSULTANT TO REVIEW AND APPROVE THE SUBGRADE PRIOR TO PLACING ROAD GRAVELS.
7. FOR TYPICAL SECTIONS SEE DWGS AE40-2.2-401 TO 408.
8. CATCH BASIN RIM ELEVATIONS SHALL BE 30mm BELOW FINISHED GRADE.
9. FOR EARTHWORKS NOTES SEE DWG AE40-2.2-002.
10. CONSTRUCT TEMPORARY ASPHALT FILLETS ON ALL CURBS. FOR DETAIL SEE DWG AE40-2.2-452.

FOR TYPICAL SECTION
SEE DWG AE40-2.2-402

FOR CURB RETURN STRETCH-OUTS
SEE DWG AE40-2.2-XXX

FOR CoV STANDARD NOTES
SEE DWG AE40-2.2-002

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Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 12:20:18 PM

Title: Roadworks Geometrics and Spot Elevations National Avenue Sheet 3 of 3

Drawing Number: AE40-2.2-103
Revision: 5

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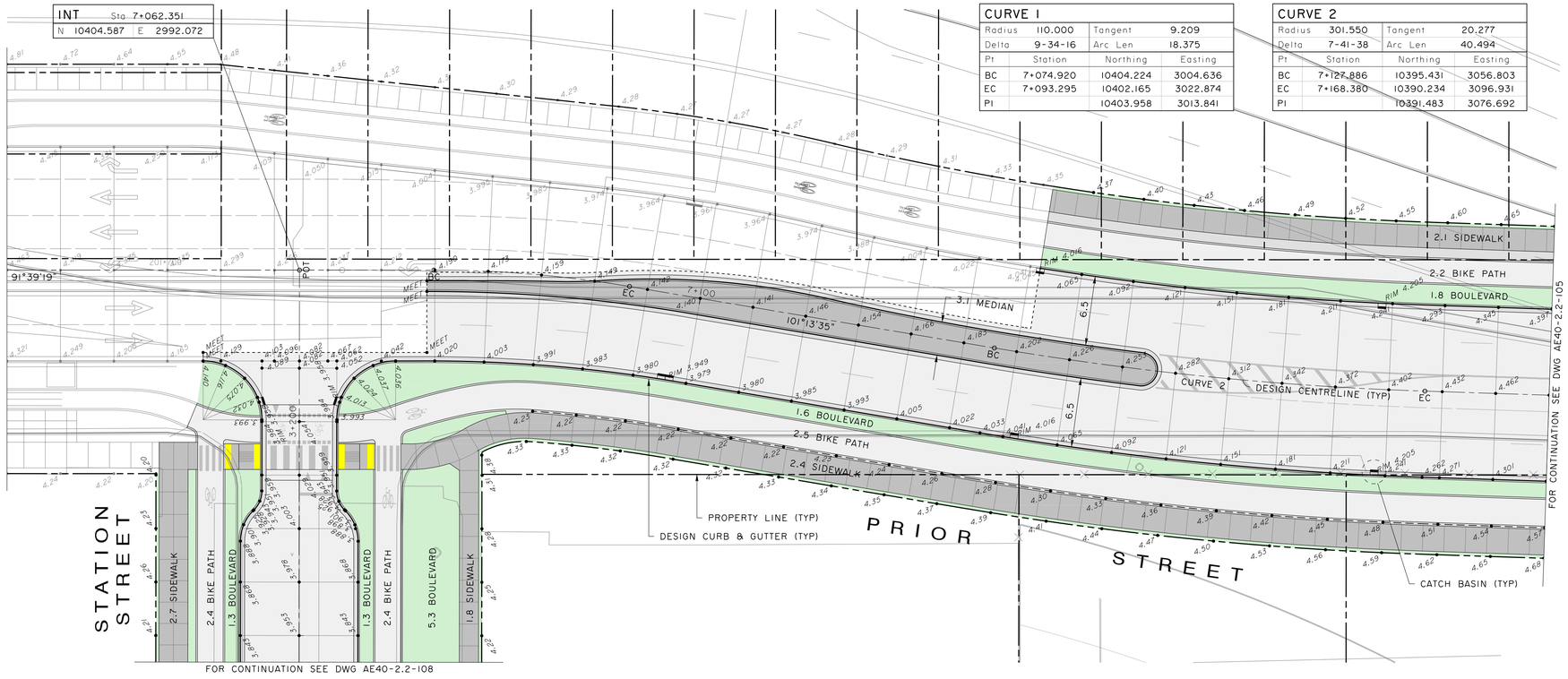
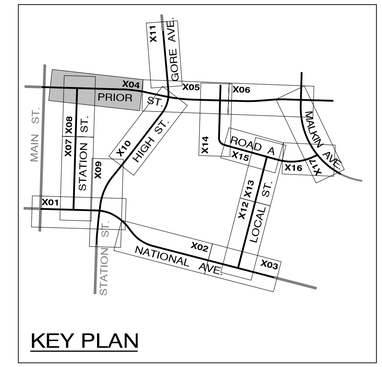


CURVE 1			
Radius	110.000	Tangent	9.209
Delta	9-34-16	Arc Len	18.375
Pt	Station	Northing	Easting
BC	7+074.920	10404.224	3004.636
EC	7+093.295	10402.165	3022.874
PI		10403.958	3013.841

CURVE 2			
Radius	301.550	Tangent	20.277
Delta	7-41-38	Arc Len	40.494
Pt	Station	Northing	Easting
BC	7+127.886	10395.431	3056.803
EC	7+168.380	10390.234	3096.931
PI		10391.483	3076.692



KEY PLAN

NOTES:

1. SIDEWALK TO BE IN ACCORDANCE WITH CoV STD DETAIL C1.1, C2.1 AND C2.2 WITH SAW CUT JOINTS. CONTRACTOR TO CONFIRM SCORELINE LAYOUT WITH ENGINEER PRIOR TO SAW CUTTING.
2. CURB RAMPS TO BE IN ACCORDANCE WITH CoV STD DETAIL C8.1, C8.2, C8.3 AND C8.4. TACTILE DOME STRIPS ARE REQUIRED AT ALL CURB RAMPS.
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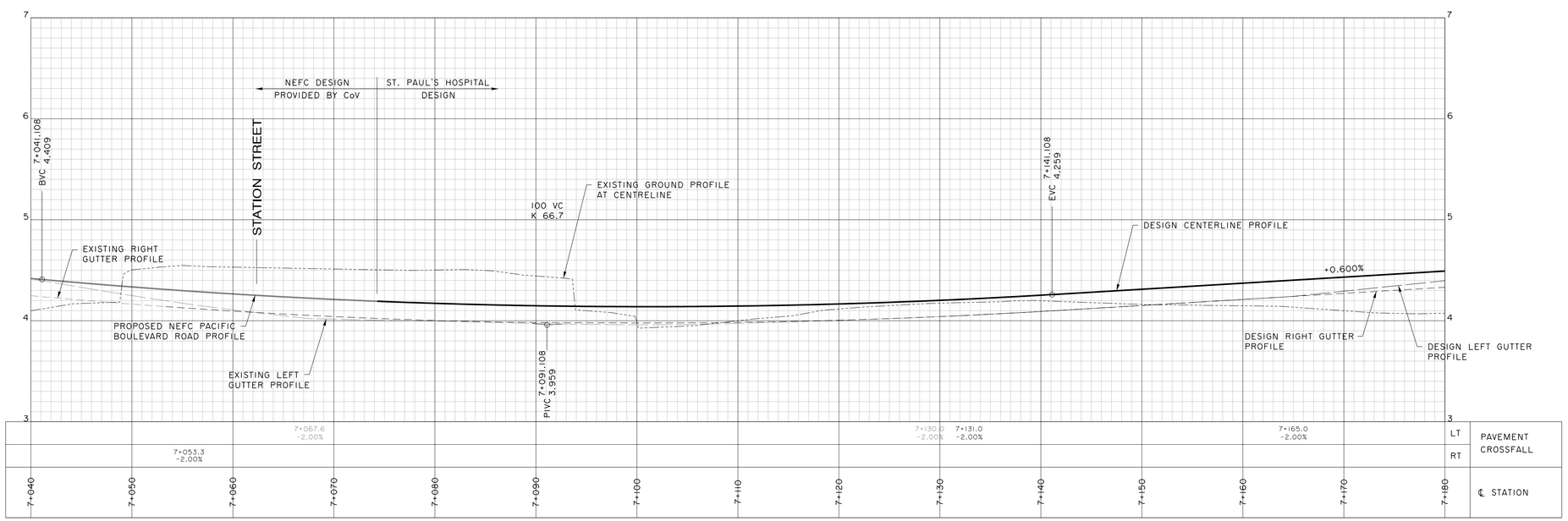
4. LOCATION OF DRIVEWAYS AND WHEELCHAIR RAMPS SHALL BE CONFIRMED ON SITE BY THE CITY OF VANCOUVER PRIOR TO CONSTRUCTION OF CURB & GUTTER, AND SHALL CONFORM WITH CoV STREET RESTORATION MANUAL & CoV STD DETAIL C7.1, C7.2 AND C7.3
5. ALL VALVE BOXES, MANHOLES. ETC., SHALL BE ADJUSTED TO FINISHED GRADE IN PAVED AREAS. A PROTECTIVE ASPHALT RAMP SHALL BE PLACED AROUND EACH STRUCTURE TO COMPENSATE FOR FUTURE FINAL LIFT OF PAVEMENT.
6. SUBGRADE AND GRANULAR BASE MATERIALS SHALL BE COMPACTED TO 95% MPD UNLESS OTHERWISE INDICATED. GEOTECHNICAL CONSULTANT TO REVIEW AND APPROVE THE SUBGRADE PRIOR TO PLACING ROAD GRAVELS.
7. FOR TYPICAL SECTIONS SEE DWGS AE40-2.2-401 TO 408.
8. CATCH BASIN RIM ELEVATIONS SHALL BE 30mm BELOW FINISHED GRADE.
9. FOR EARTHWORKS NOTES SEE DWG AE40-2.2-002.
10. CONSTRUCT TEMPORARY ASPHALT FILLETS ON ALL CURBS. FOR DETAIL SEE DWG AE40-2.2-452.

FOR TYPICAL SECTION
SEE DWG AE40-2.2-403

FOR CURB RETURN STRETCH-OUTS
SEE DWG AE40-2.2-XXX

FOR CoV STANDARD NOTES
SEE DWG AE40-2.2-002



PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
5	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
4	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
3	20-04-20	75% DESIGN SUBMISSION	D.A.	
2	20-02-20	ISSUED FOR FEBRUARY ADDENDUM	D.Y.	
1	19-07-12	50% DESIGN SUBMISSION	D.Y.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: D. ARNOLD
Plot Date: 21/01/18
Plot Time: 12:20:50 PM

Title: Roadworks Geometrics and Spot Elevations Prior Street Sheet 1 of 3

Drawing Number: AE40-2.2-104
Revision: 5

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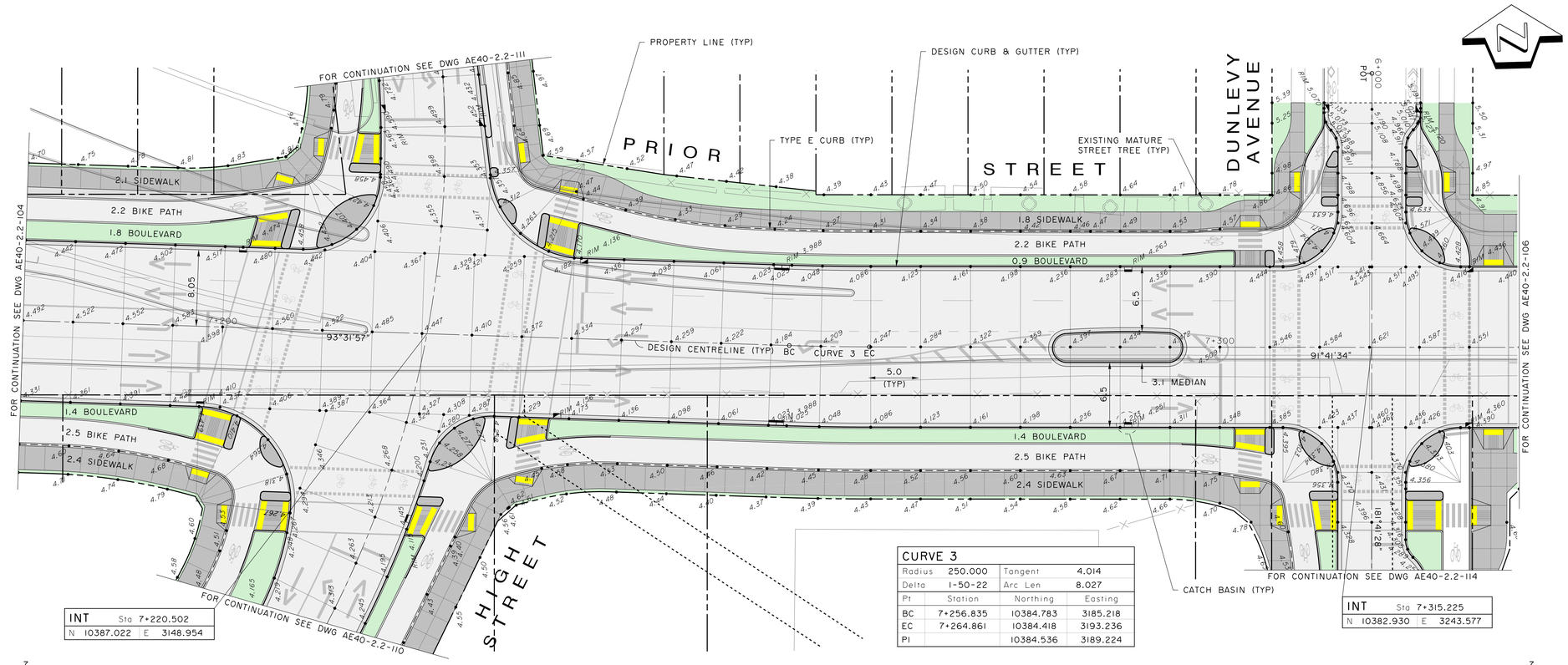
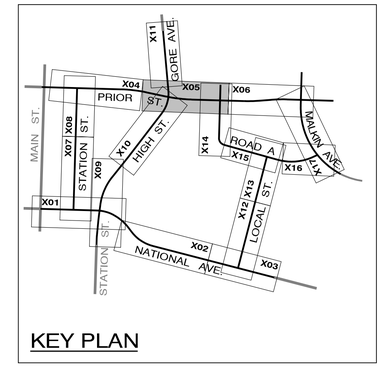


CURVE 3			
Radius	250.000	Tangent	4.014
Delta	1-50-22	Arc Len	8.027
Pt	Station	Northing	Easting
BC	7+256.835	10384.783	3185.218
EC	7+264.861	10384.418	3193.236
PI		10384.536	3189.224



KEY PLAN

NOTES:

1. SIDEWALK TO BE IN ACCORDANCE WITH CoV STD DETAIL C1.1, C2.1 AND C2.2 WITH SAW CUT JOINTS. CONTRACTOR TO CONFIRM SCORELINE LAYOUT WITH ENGINEER PRIOR TO SAW CUTTING.
2. CURB RAMPS TO BE IN ACCORDANCE WITH CoV STD DETAIL C8.1, C8.2, C8.3 AND C8.4. TACTILE DOME STRIPS ARE REQUIRED AT ALL CURB RAMPS.
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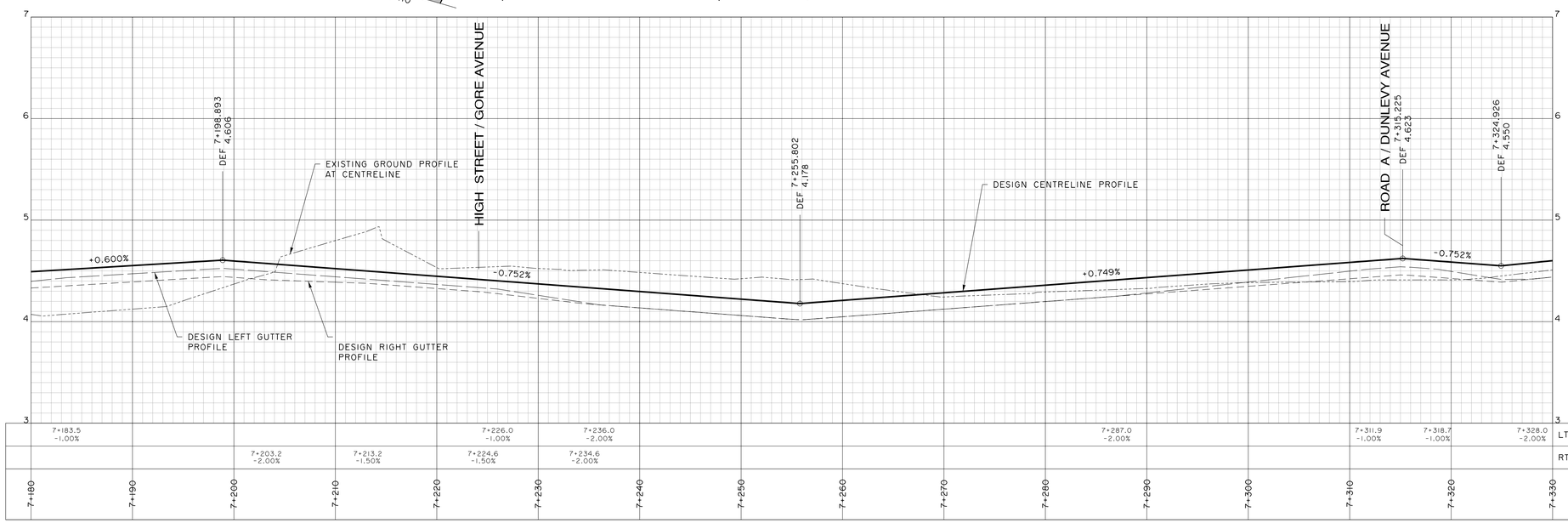
7. FOR TYPICAL SECTIONS SEE DWGS AE40-2.2-401 TO 408.
8. CATCH BASIN RIM ELEVATIONS SHALL BE 30mm BELOW FINISHED GRADE.
9. FOR EARTHWORKS NOTES SEE DWG AE40-2.2-002.
10. CONSTRUCT TEMPORARY ASPHALT FILLETS ON ALL CURBS. FOR DETAIL SEE DWG AE40-2.2-452.

FOR TYPICAL SECTION
SEE DWG AE40-2.2-403

FOR CURB RETURN STRETCH-OUTS
SEE DWG AE40-2.2-XXX

FOR CoV STANDARD NOTES
SEE DWG AE40-2.2-002



PRELIMINARY

InterCAD
CONSULTING ENGINEERS

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5	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
4	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
3	20-04-20	75% DESIGN SUBMISSION	D.A.	
2	20-02-20	ISSUED FOR FEBRUARY ADDENDUM	D.Y.	
1	19-07-12	50% DESIGN SUBMISSION	D.Y.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: D. ARNOLD
Plot Date: 21/01/18
Plot Time: 12:21:08 PM

Title: Roadworks Geometrics and Spot Elevations Prior Street Sheet 2 of 3

Drawing Number: AE40-2.2-105
Revision: 5

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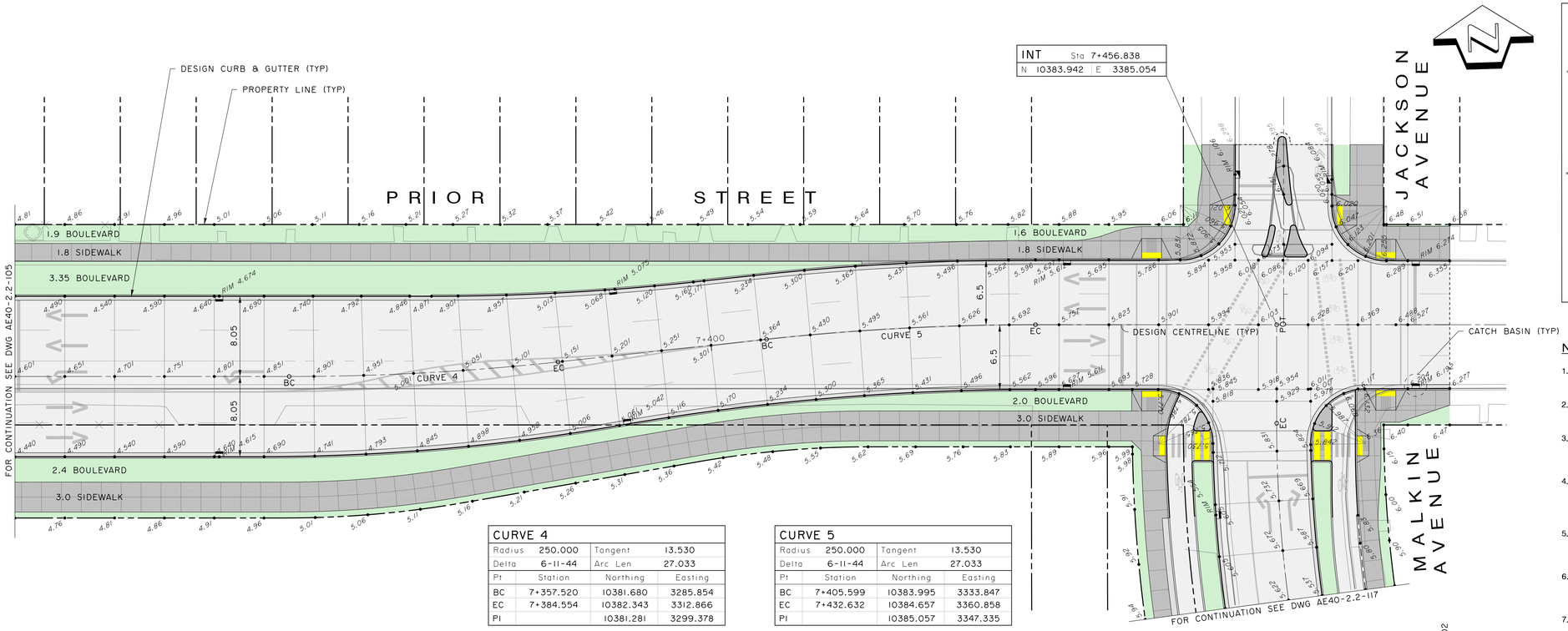
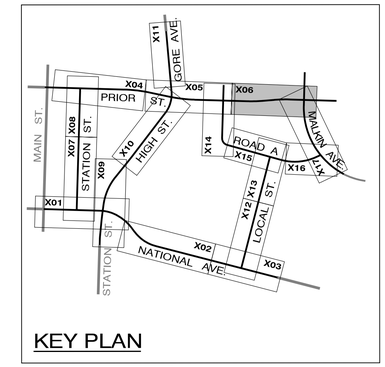


CURVE 4			
Radius	250.000	Tangent	13.530
Delta	6-11-44	Arc Len	27.033
Pt	Station	Northing	Easting
BC	7+357.520	10381.680	3285.854
EC	7+384.554	10382.343	3312.866
PI		10381.281	3299.378

CURVE 5			
Radius	250.000	Tangent	13.530
Delta	6-11-44	Arc Len	27.033
Pt	Station	Northing	Easting
BC	7+405.599	10383.995	3333.847
EC	7+432.632	10384.657	3360.858
PI		10385.057	3347.335



NOTES:

1. SIDEWALK TO BE IN ACCORDANCE WITH CoV STD DETAIL C1.1, C2.1 AND C2.2 WITH SAW CUT JOINTS. CONTRACTOR TO CONFIRM SCORELINE LAYOUT WITH ENGINEER PRIOR TO SAW CUTTING.
2. CURB RAMPS TO BE IN ACCORDANCE WITH CoV STD DETAIL C8.1, C8.2, C8.3 AND C8.4. TACTILE DOME STRIPS ARE REQUIRED AT ALL CURB RAMPS.
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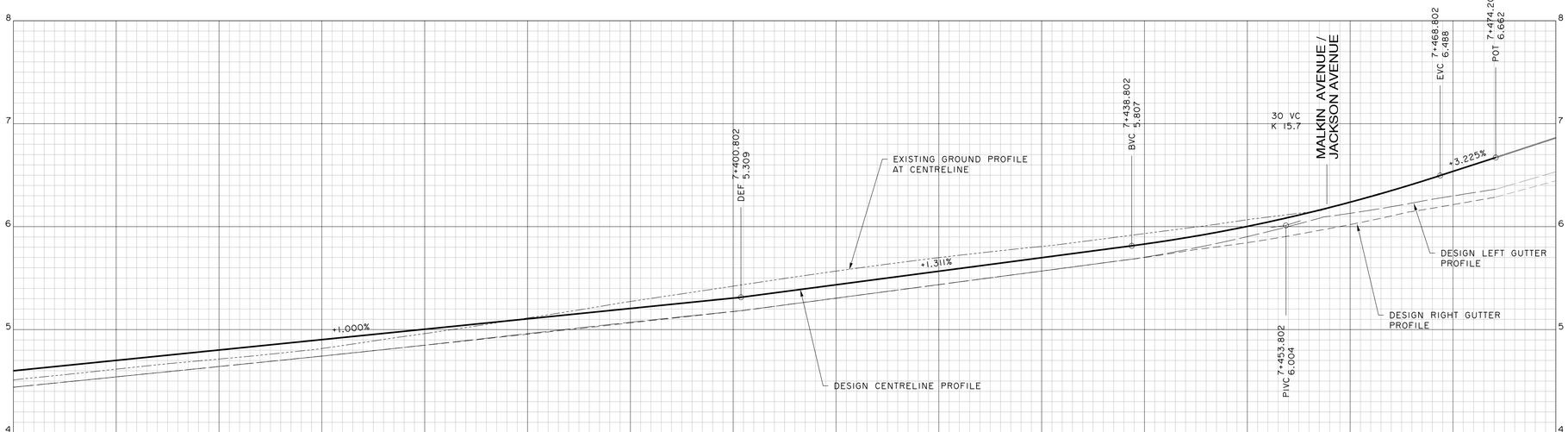
7. FOR TYPICAL SECTIONS SEE DWGS AE40-2.2-401 TO 408.
8. CATCH BASIN RIM ELEVATIONS SHALL BE 30mm BELOW FINISHED GRADE.
9. FOR EARTHWORKS NOTES SEE DWG AE40-2.2-002.
10. CONSTRUCT TEMPORARY ASPHALT FILLETS ON ALL CURBS. FOR DETAIL SEE DWG AE40-2.2-452.

FOR TYPICAL SECTION
SEE DWG AE40-2.2-404

FOR CURB RETURN STRETCH-OUTS
SEE DWG AE40-2.2-XXX

FOR CoV STANDARD NOTES
SEE DWG AE40-2.2-002



													7+439.5 -2.00%		7+457.5 -1.20%		7+467.9 -3.15%	7+474.2 -4.80%	LT
												7+445.0 -2.00%		7+456.8 -3.00%		7+465.7 -4.00%		7+474.2 -6.01%	RT
7+330	7+340	7+350	7+360	7+370	7+380	7+390	7+400	7+410	7+420	7+430	7+440	7+450	7+460	7+470	7+480				℄ STATION

PAVEMENT CROSSFALL

PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
5	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
4	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
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Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: D. ARNOLD
Plot Date: 21/01/18
Plot Time: 12:21:23 PM

Title: Roadworks Geometrics and Spot Elevations Prior Street Sheet 3 of 3

Drawing Number: AE40-2.2-106
Revision: 5

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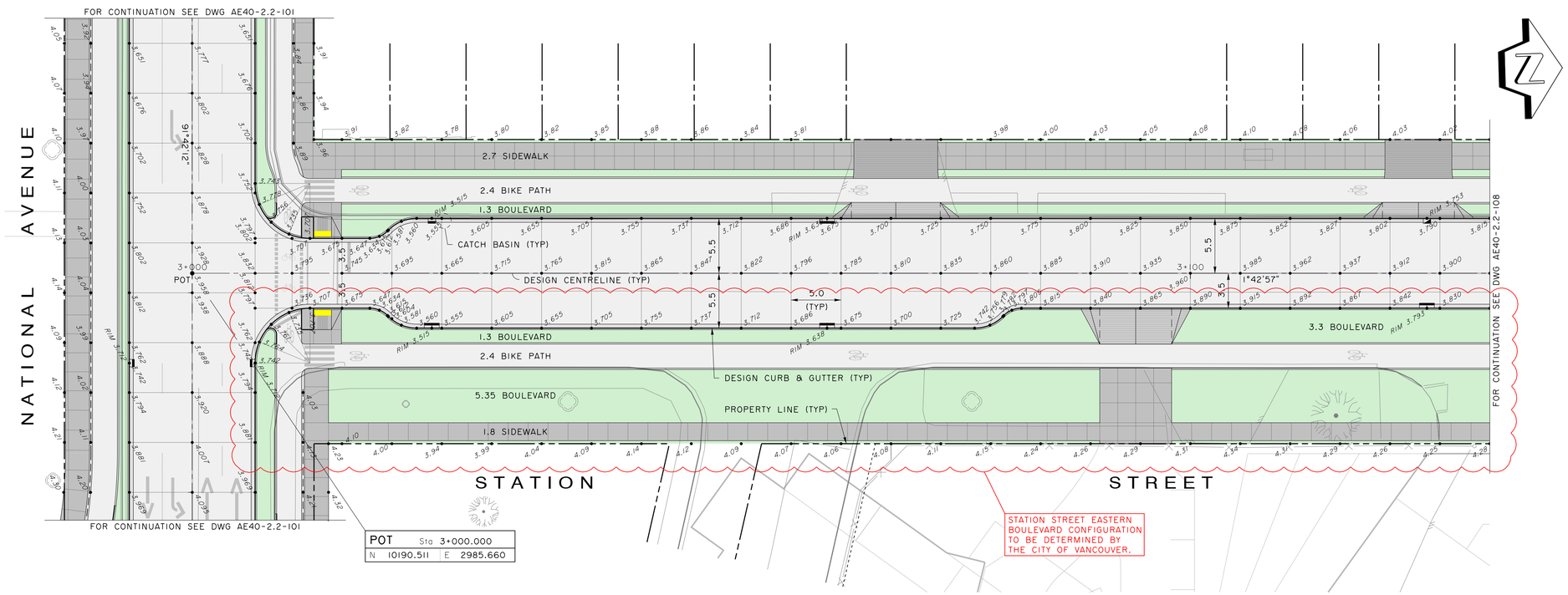

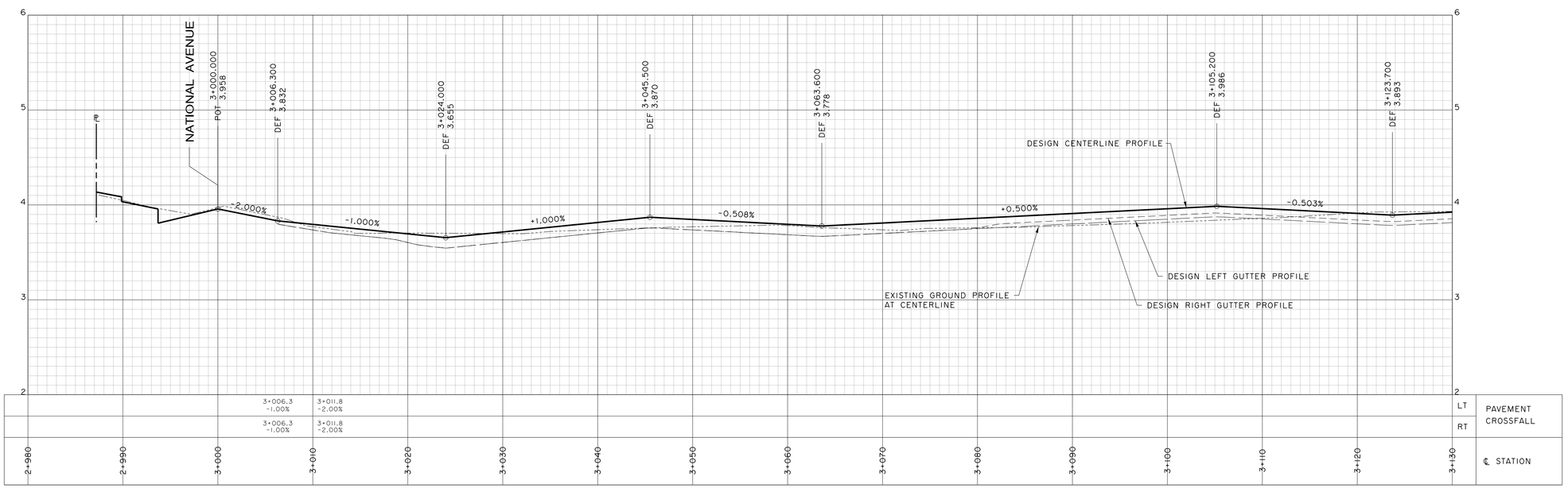

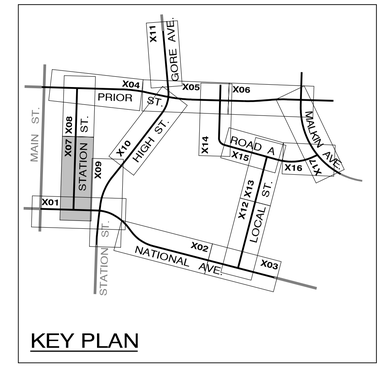

NOTES:

1. SIDEWALK TO BE IN ACCORDANCE WITH CoV STD DETAIL C1.1, C2.1 AND C2.2 WITH SAW CUT JOINTS. CONTRACTOR TO CONFIRM SCORELINE LAYOUT WITH ENGINEER PRIOR TO SAW CUTTING.
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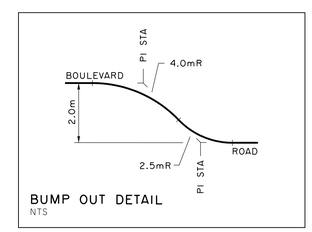
7. FOR TYPICAL SECTIONS SEE DWGS AE40-2.2-401 TO 408.
8. CATCH BASIN RIM ELEVATIONS SHALL BE 30mm BELOW FINISHED GRADE.
9. FOR EARTHWORKS NOTES SEE DWG AE40-2.2-002.
10. CONSTRUCT TEMPORARY ASPHALT FILLETS ON ALL CURBS. FOR DETAIL SEE DWG AE40-2.2-452.



FOR TYPICAL SECTION SEE DWG AE40-2.2-408

FOR CURB RETURN STRETCH-OUTS SEE DWG AE40-2.2-XXX

FOR CoV STANDARD NOTES SEE DWG AE40-2.2-002

PRELIMINARY

InterCAD
CONSULTING ENGINEERS

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5	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
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3	20-04-20	75% DESIGN SUBMISSION	D.A.	
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1	19-07-12	50% DESIGN SUBMISSION	D.Y.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 12:21:39 PM

Title: Roadworks Geometrics and Spot Elevations Station Street Sheet 1 of 2

Drawing Number: AE40-2.2-107
Revision: 5

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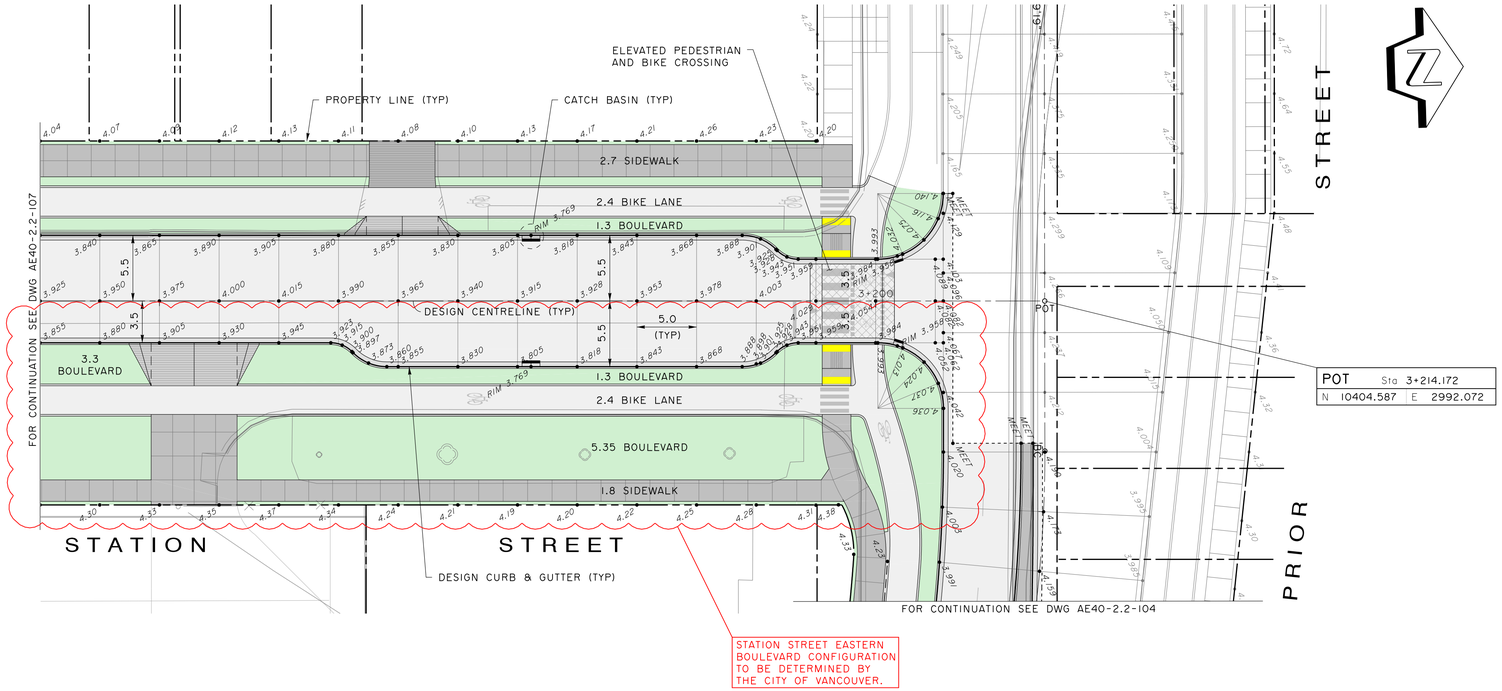

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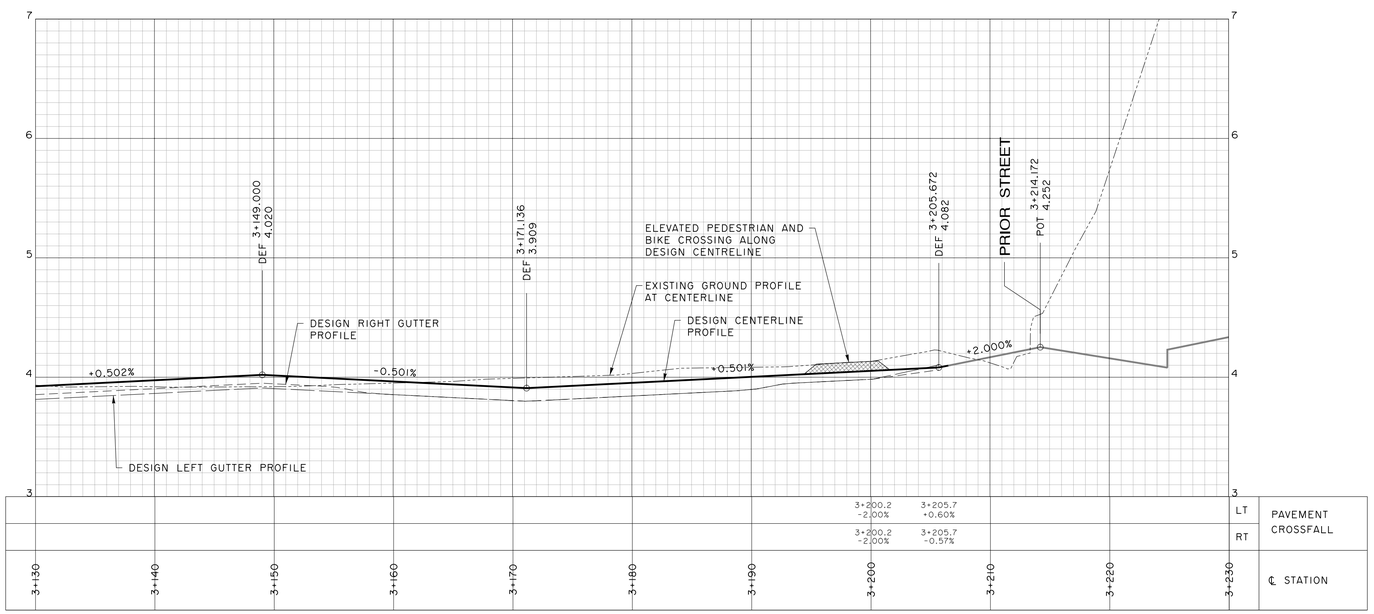

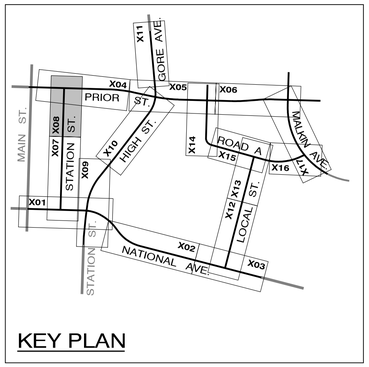

KEY PLAN

NOTES:

1. SIDEWALK TO BE IN ACCORDANCE WITH CoV STD DETAIL C1.1, C2.1 AND C2.2 WITH SAW CUT JOINTS. CONTRACTOR TO CONFIRM SCORELINE LAYOUT WITH ENGINEER PRIOR TO SAW CUTTING.
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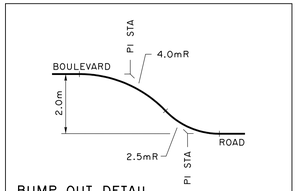

BUMP OUT DETAIL
NTS

FOR TYPICAL SECTION SEE DWG AE40-2.2-408

FOR CURB RETURN STRETCH-OUTS SEE DWG AE40-2.2-XXX

FOR CoV STANDARD NOTES SEE DWG AE40-2.2-002

PRELIMINARY

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Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 12:21:55 PM

Title: Roadworks Geometrics and Spot Elevations Station Street Sheet 2 of 2

Drawing Number: AE40-2.2-108
Revision: 5

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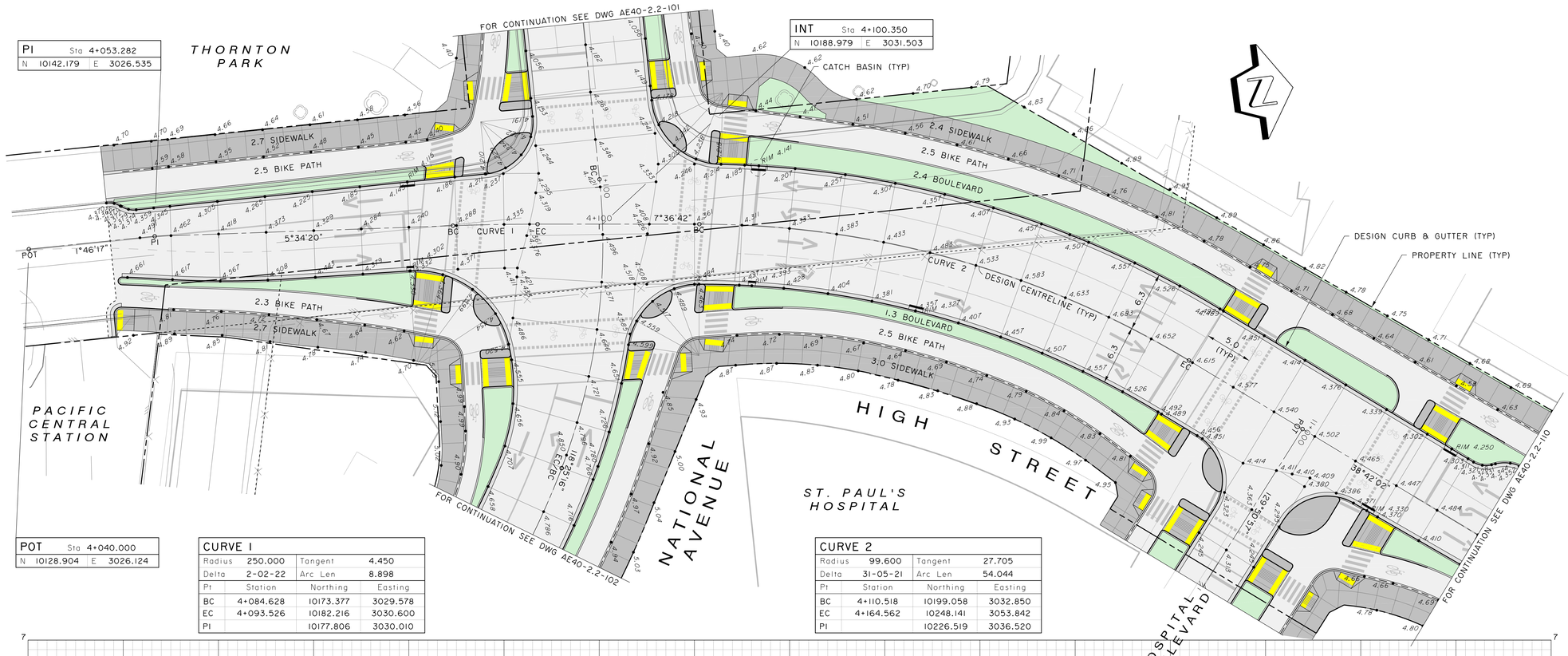

CURVE 1			
Radius	250.000	Tangent	4.450
Delta	2-02-22	Arc Len	8.898
Pt	Station	Northing	Easting
BC	4+084.628	10173.377	3029.578
EC	4+093.526	10182.216	3030.600
PI		10177.806	3030.010

CURVE 2			
Radius	99.600	Tangent	27.705
Delta	31-05-21	Arc Len	54.044
Pt	Station	Northing	Easting
BC	4+110.518	10199.058	3032.850
EC	4+164.562	10248.141	3053.842
PI		10226.519	3036.520

KEY PLAN

NOTES:

1. SIDEWALK TO BE IN ACCORDANCE WITH CoV STD DETAIL C1.1, C2.1 AND C2.2 WITH SAW CUT JOINTS. CONTRACTOR TO CONFIRM SCORELINE LAYOUT WITH ENGINEER PRIOR TO SAW CUTTING.
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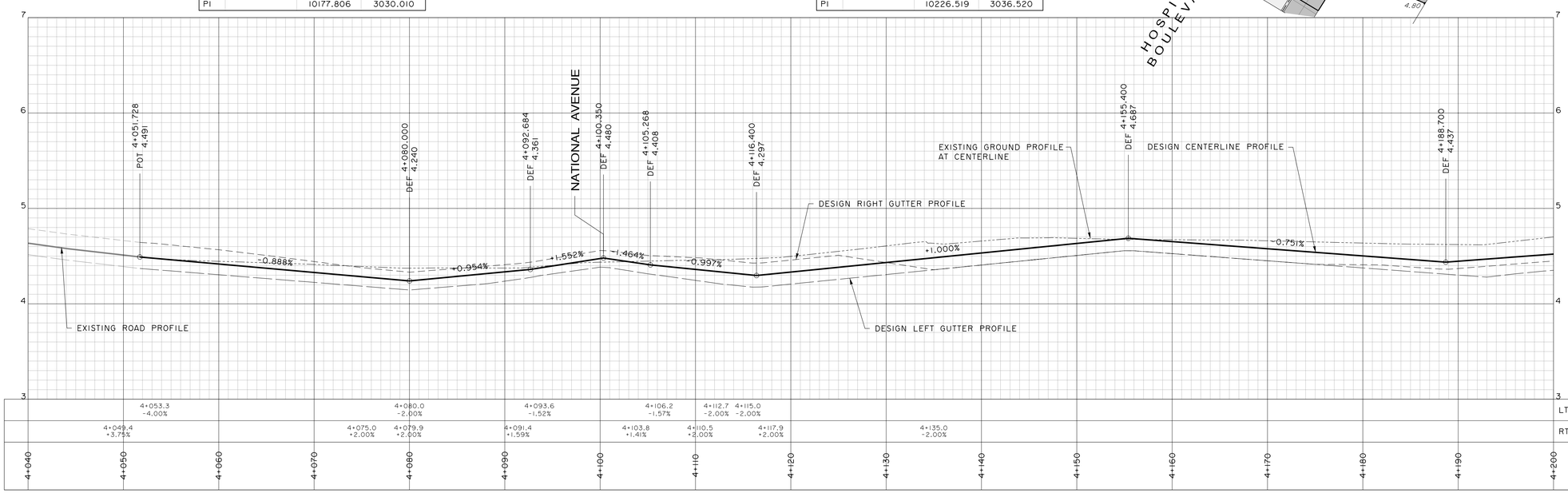
7. FOR TYPICAL SECTIONS SEE DWGS AE40-2.2-401 TO 408.
8. CATCH BASIN RIM ELEVATIONS SHALL BE 30mm BELOW FINISHED GRADE.
9. FOR EARTHWORKS NOTES SEE DWG AE40-2.2-002.
10. CONSTRUCT TEMPORARY ASPHALT FILLETS ON ALL CURBS. FOR DETAIL SEE DWG AE40-2.2-452.

FOR TYPICAL SECTION
SEE DWG AE40-2.2-405

FOR CURB RETURN STRETCH-OUTS
SEE DWG AE40-2.2-XXX

FOR CoV STANDARD NOTES
SEE DWG AE40-2.2-002



PRELIMINARY

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2	20-02-20	ISSUED FOR FEBRUARY ADDENDUM	D.Y.	
1	19-07-12	50% DESIGN SUBMISSION	D.Y.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 12:22:14 PM

Title: Roadworks Geometrics and Spot Elevations High Street Sheet 1 of 2

Drawing Number: AE40-2.2-109
Revision: 5

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CURVE 3			
Radius	105.000	Tangent	40.909
Delta	42-34-20	Arc Len	78.018
Pt	Station	Northing	Easting
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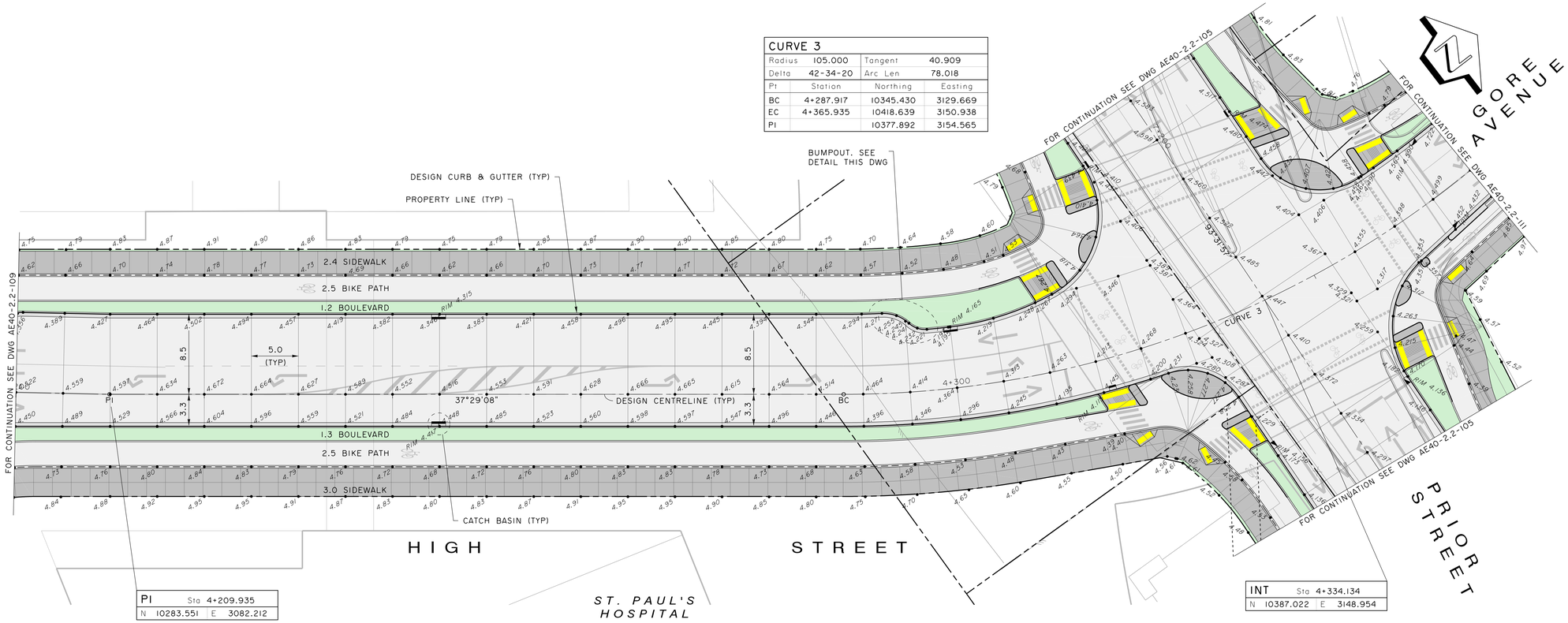
EC	4+365.935	10418.639	3150.938
PI		10377.892	3154.565



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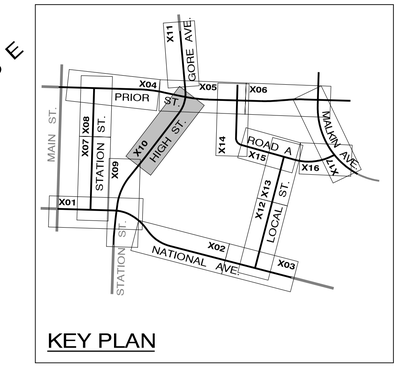
N 10283.551	E 3082.212

INT	Sta 4+334.134
N 10387.022	E 3148.954



KEY PLAN

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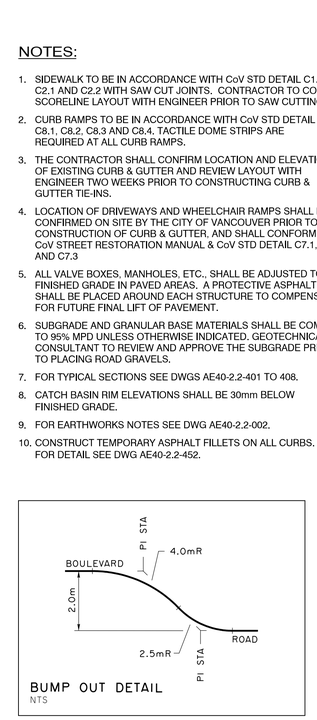
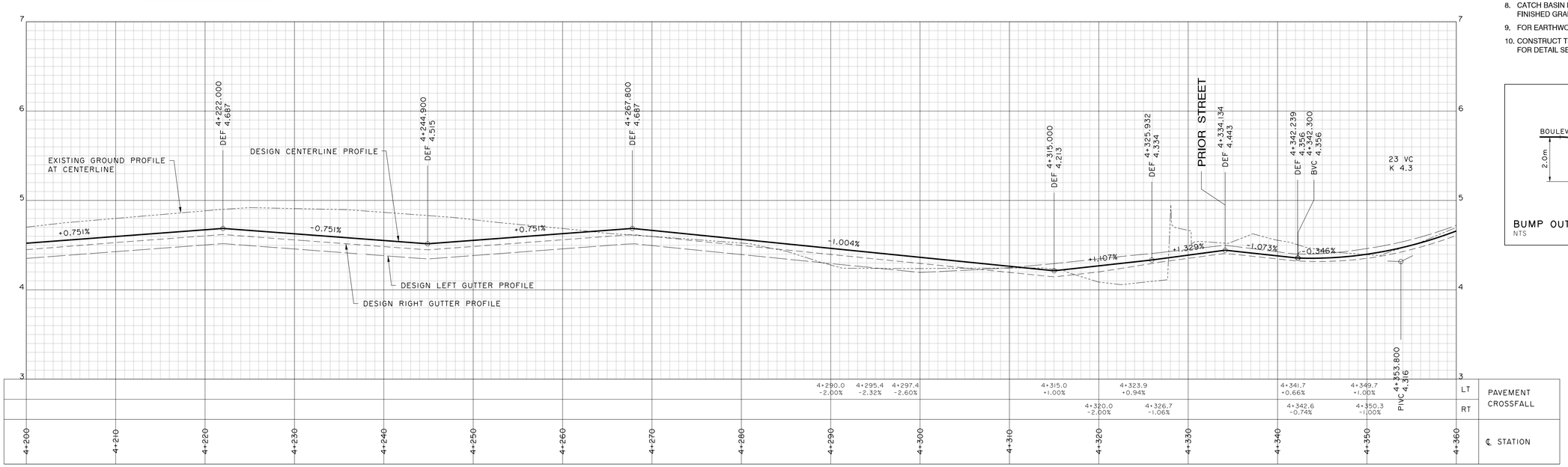


BUMP OUT DETAIL
NTS



FOR TYPICAL SECTION SEE DWG AE40-2.2-405

FOR CURB RETURN STRETCH-OUTS SEE DWG AE40-2.2-XXX

FOR CoV STANDARD NOTES SEE DWG AE40-2.2-002

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Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 12:22:34 PM

Title: Roadworks Geometrics and Spot Elevations High Street Sheet 2 of 2

Drawing Number: AE40-2.2-110
Revision: 5

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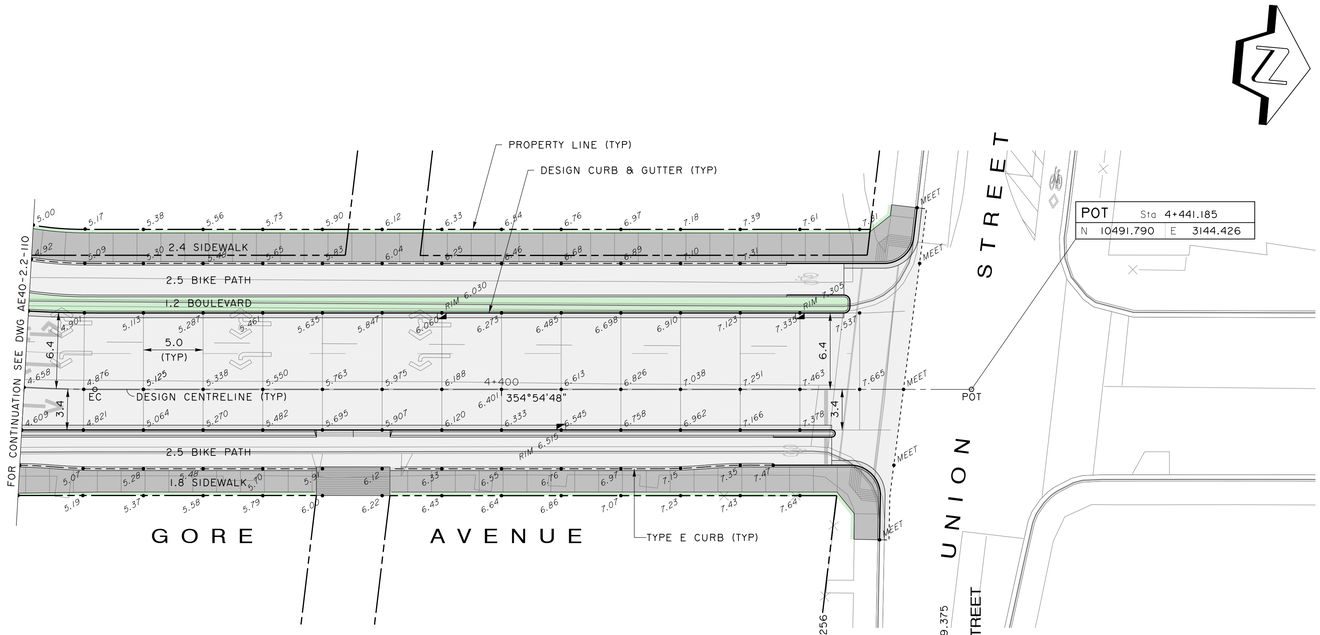

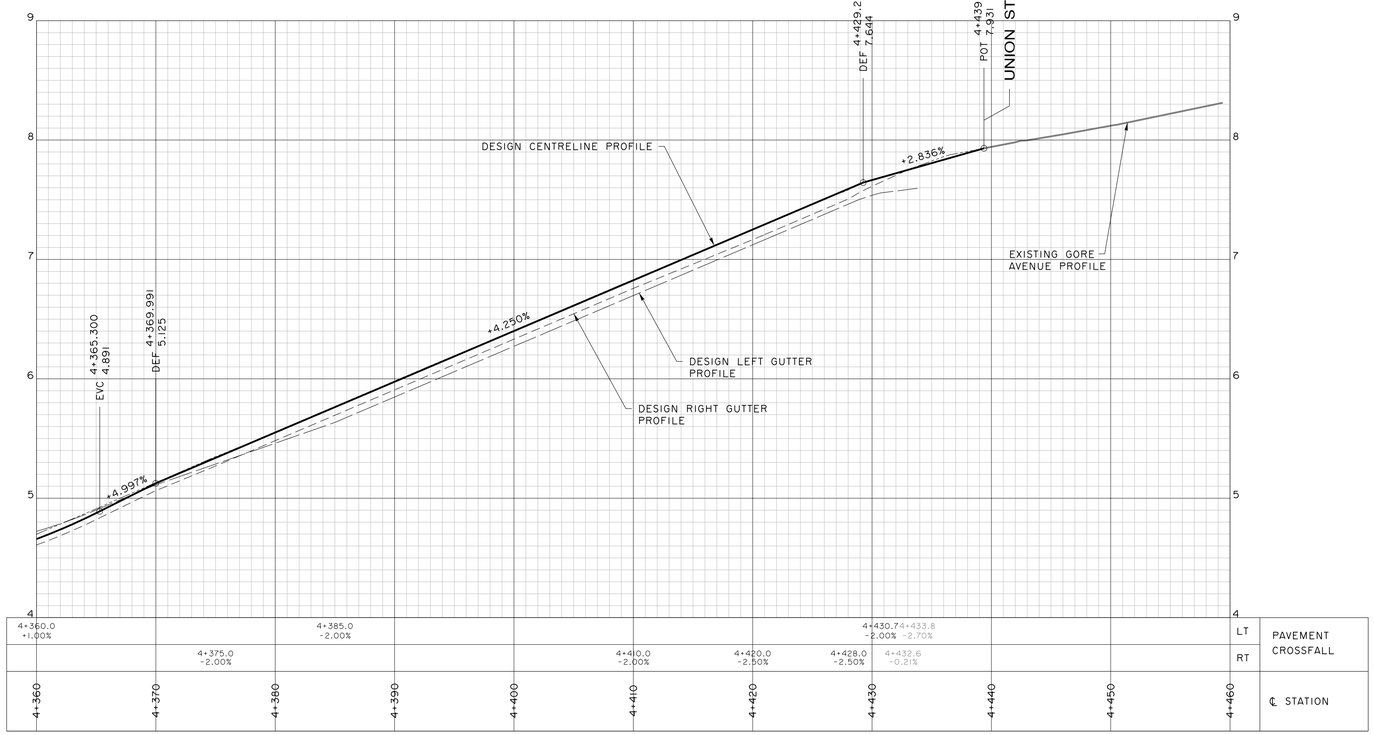

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FOR TYPICAL SECTION
SEE DWG AE40-2.2-406

FOR CURB RETURN STRETCH-OUTS
SEE DWG AE40-2.2-XXX

FOR CoV STANDARD NOTES
SEE DWG AE40-2.2-002

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Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 12:22:52 PM

Title: Roadworks Geometrics and Spot Elevations Gore Avenue

Drawing Number: AE40-2.2-111
Revision: 5

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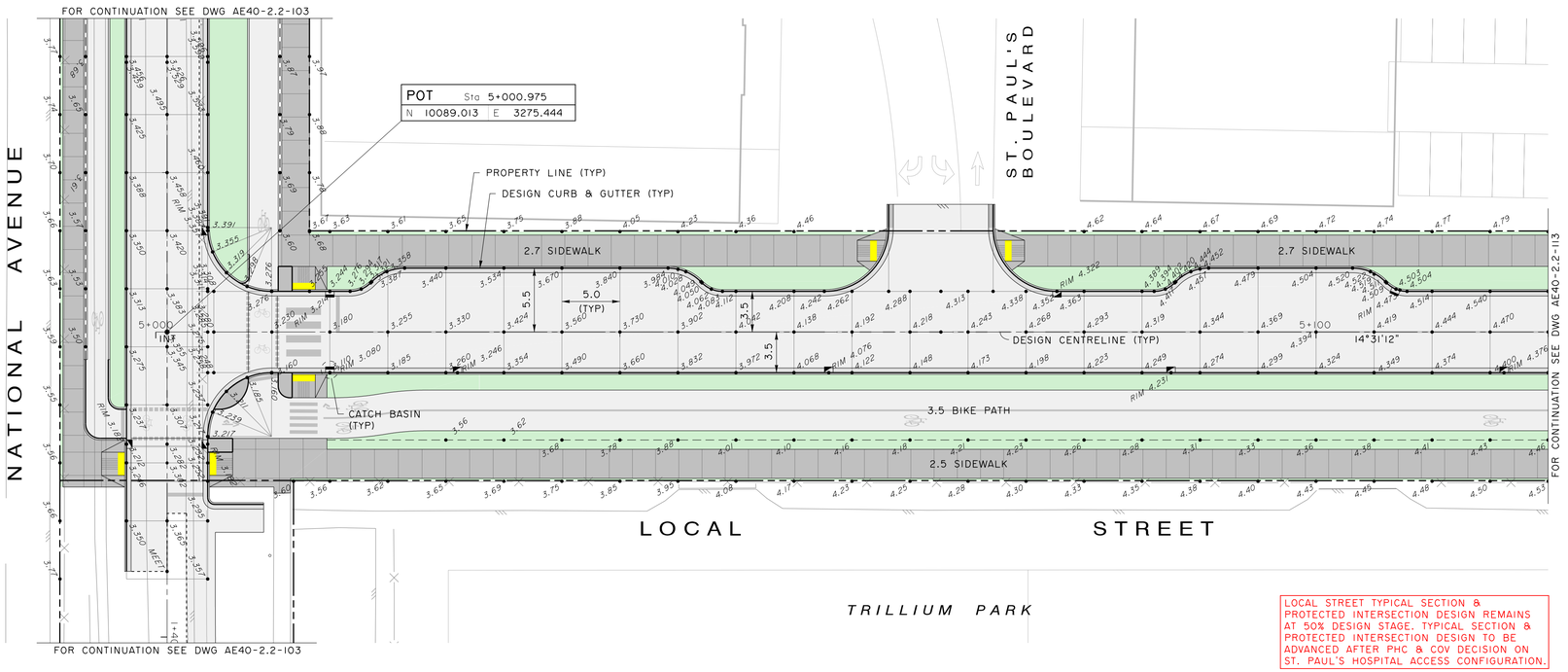
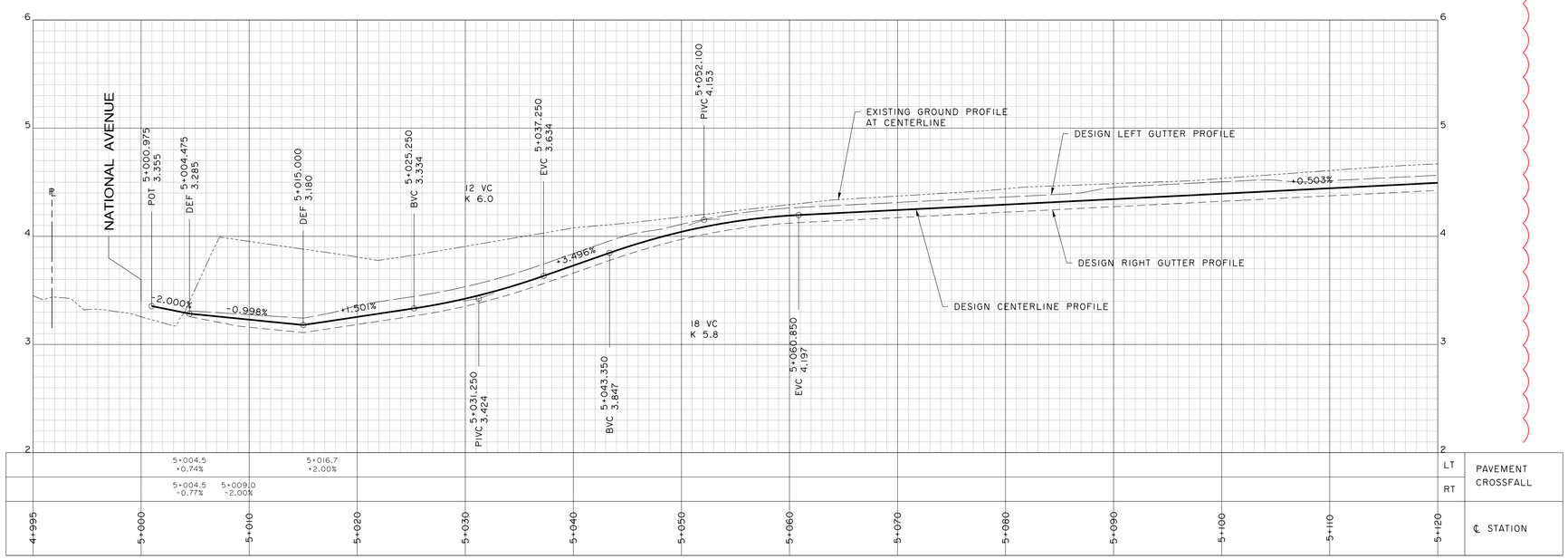
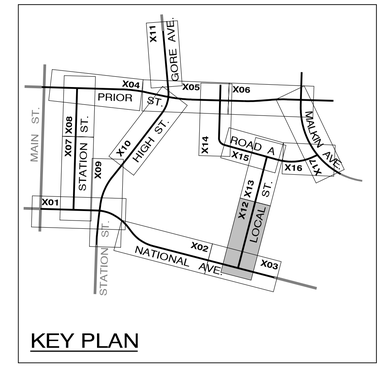


LOCAL STREET TYPICAL SECTION & PROTECTED INTERSECTION DESIGN REMAINS AT 50% DESIGN STAGE. TYPICAL SECTION & PROTECTED INTERSECTION DESIGN TO BE ADVANCED AFTER PHC & COV DECISION ON ST. PAUL'S HOSPITAL ACCESS CONFIGURATION.





KEY PLAN

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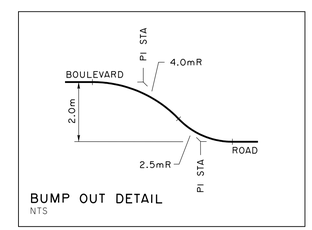

BUMP OUT DETAIL
NTS

FOR TYPICAL SECTION SEE DWG AE40-2.2-407

FOR CURB RETURN STRETCH-OUTS SEE DWG AE40-2.2-XXX

FOR CoV STANDARD NOTES SEE DWG AE40-2.2-002

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Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 12:23:09 PM

Title: Roadworks Geometrics and Spot Elevations Local Street Sheet 1 of 2

Drawing Number: AE40-2.2-112
Revision: 5

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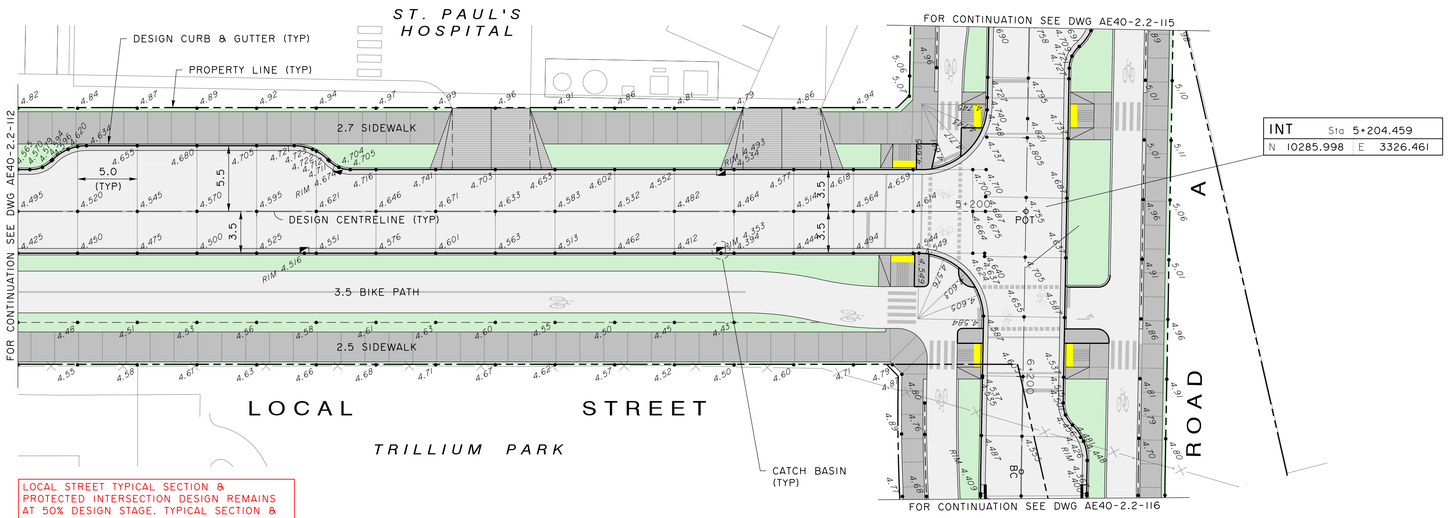

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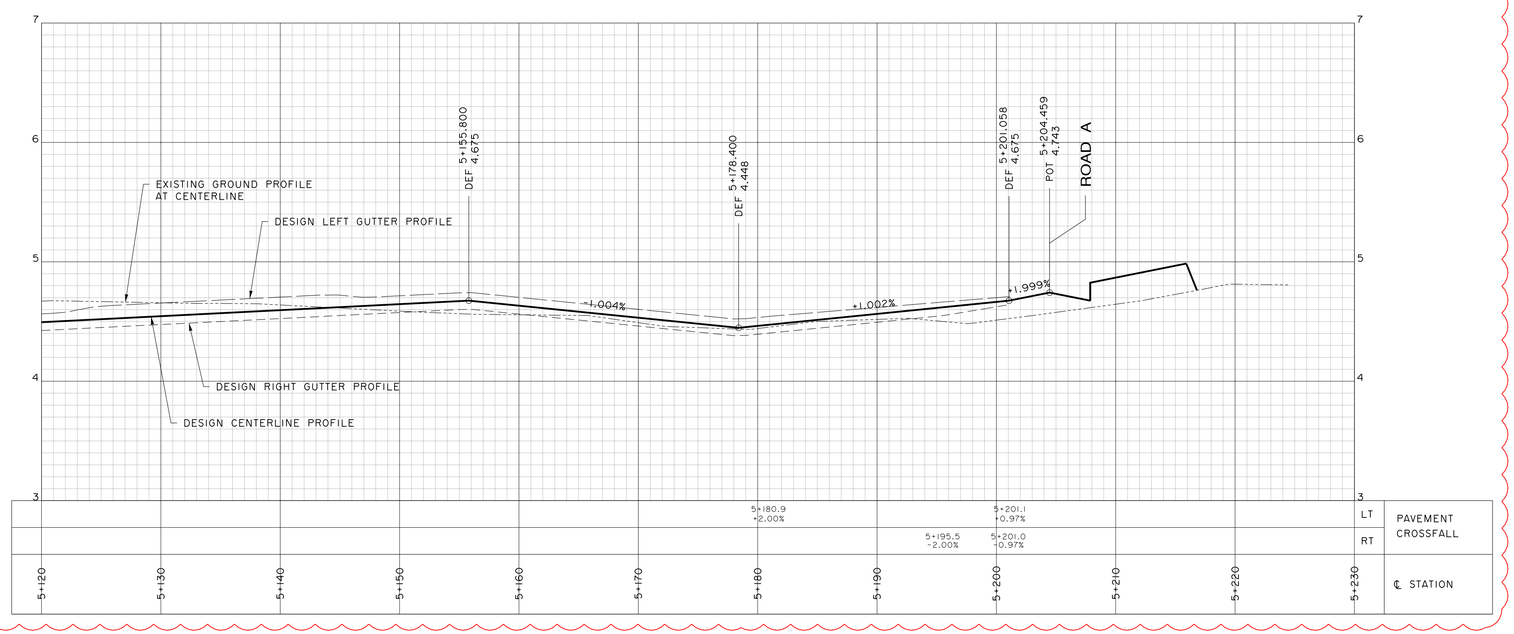

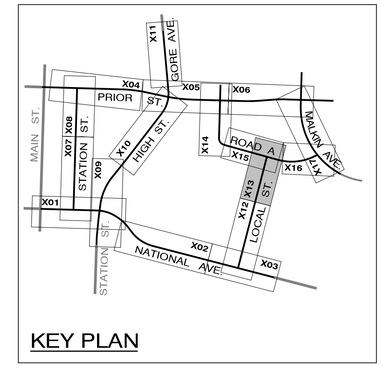

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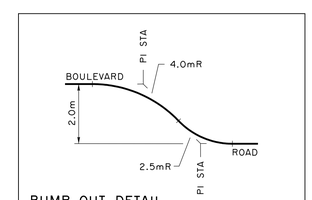

BUMP OUT DETAIL
NTS

FOR TYPICAL SECTION SEE DWG AE40-2.2-407

FOR CURB RETURN STRETCH-OUTS SEE DWG AE40-2.2-XXX

FOR CoV STANDARD NOTES SEE DWG AE40-2.2-002

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Client: IBI Group / Providence Health Care

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Preliminary Roadway Drawings

Scale: 0 5 10 15 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 12:23:24 PM

Title: Roadworks Geometrics and Spot Elevations Local Street Sheet 2 of 2

Drawing Number: AE40-2.2-113
Revision: 5

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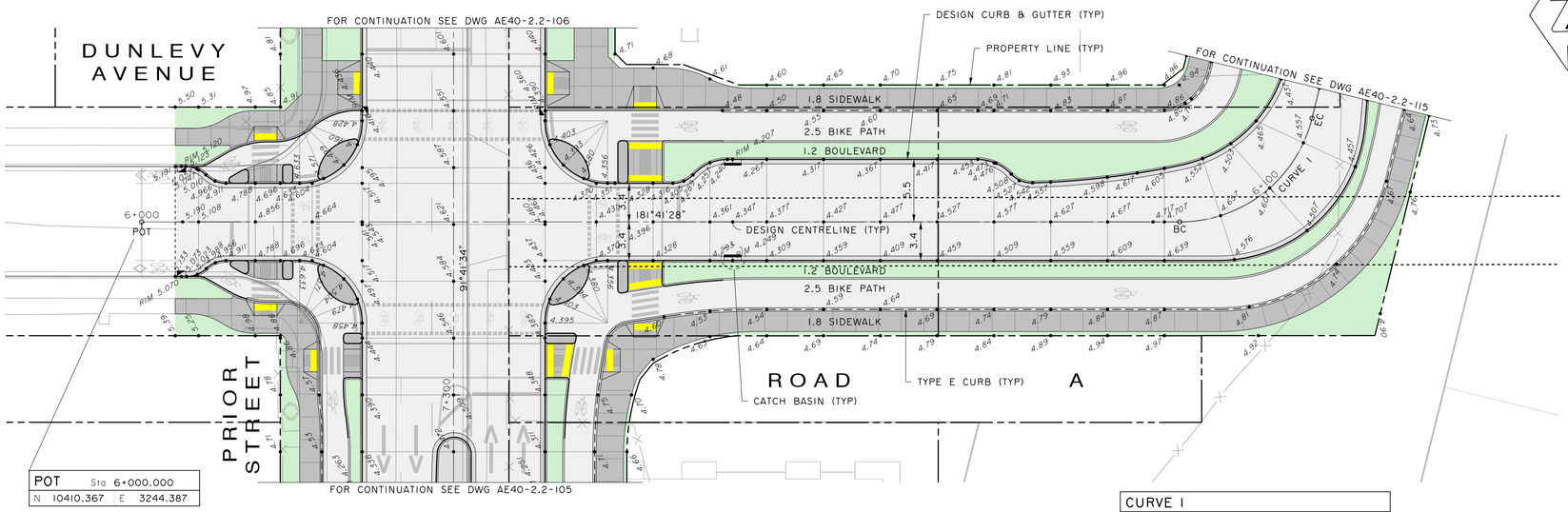

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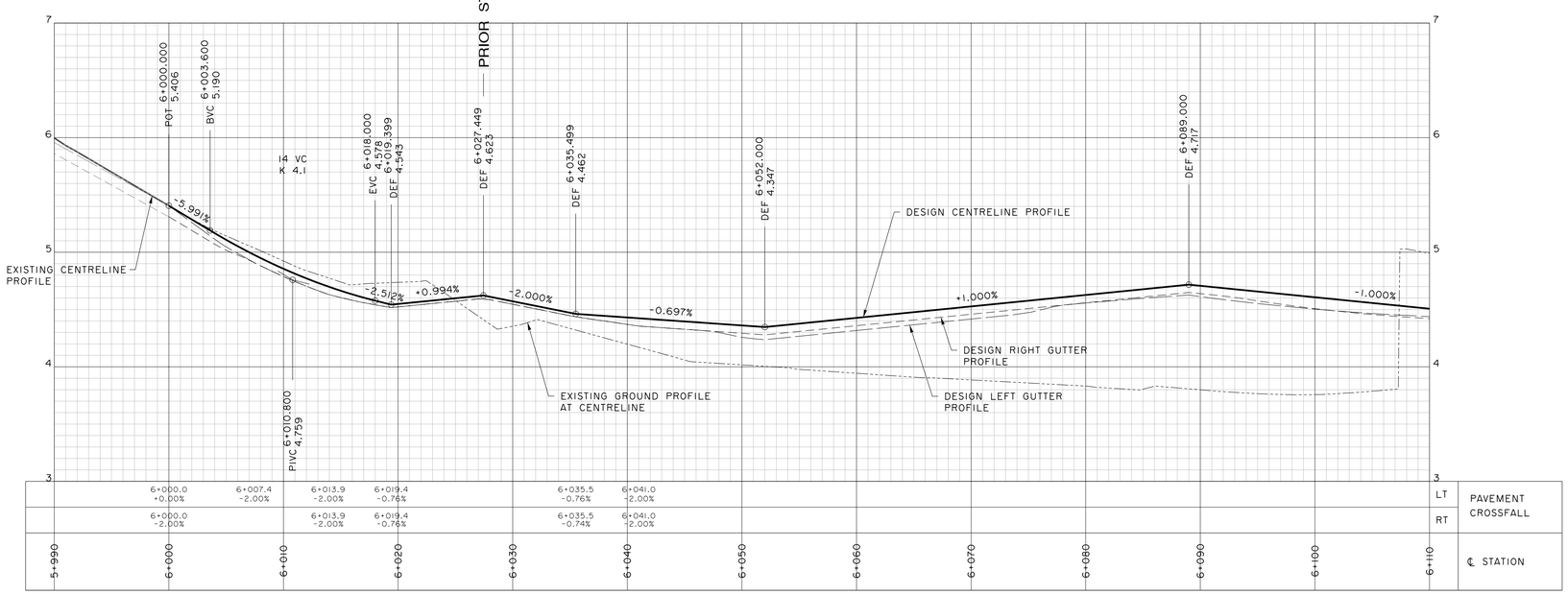
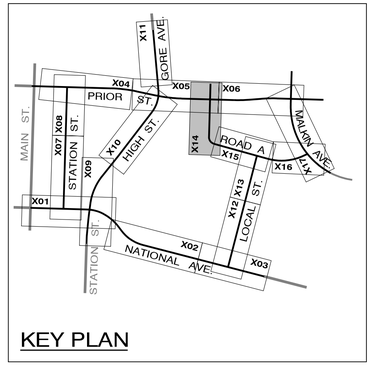
N 10410.367	E 3244.387

CURVE 1			
Radius	12.000	Tangent	9.399
Delta	76-08-15	Arc Len	15.946
Pt	Station	Northing	Easting
BC	6+091.344	10319.063	3241.692
EC	6+107.290	10307.148	3250.469
PI		10309.668	3241.414





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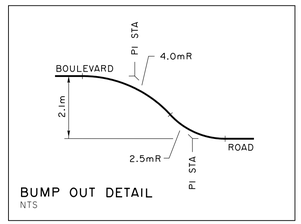

BUMP OUT DETAIL
NTS

FOR TYPICAL SECTION
SEE DWG AE40-2.2-408

FOR CURB RETURN STRETCH-OUTS
SEE DWG AE40-2.2-XXX

FOR CoV STANDARD NOTES
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Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 12:23:42 PM

Title: Roadworks Geometrics and Spot Elevations Road A Sheet 1 of 3

Drawing Number: AE40-2.2-114
Revision: 5

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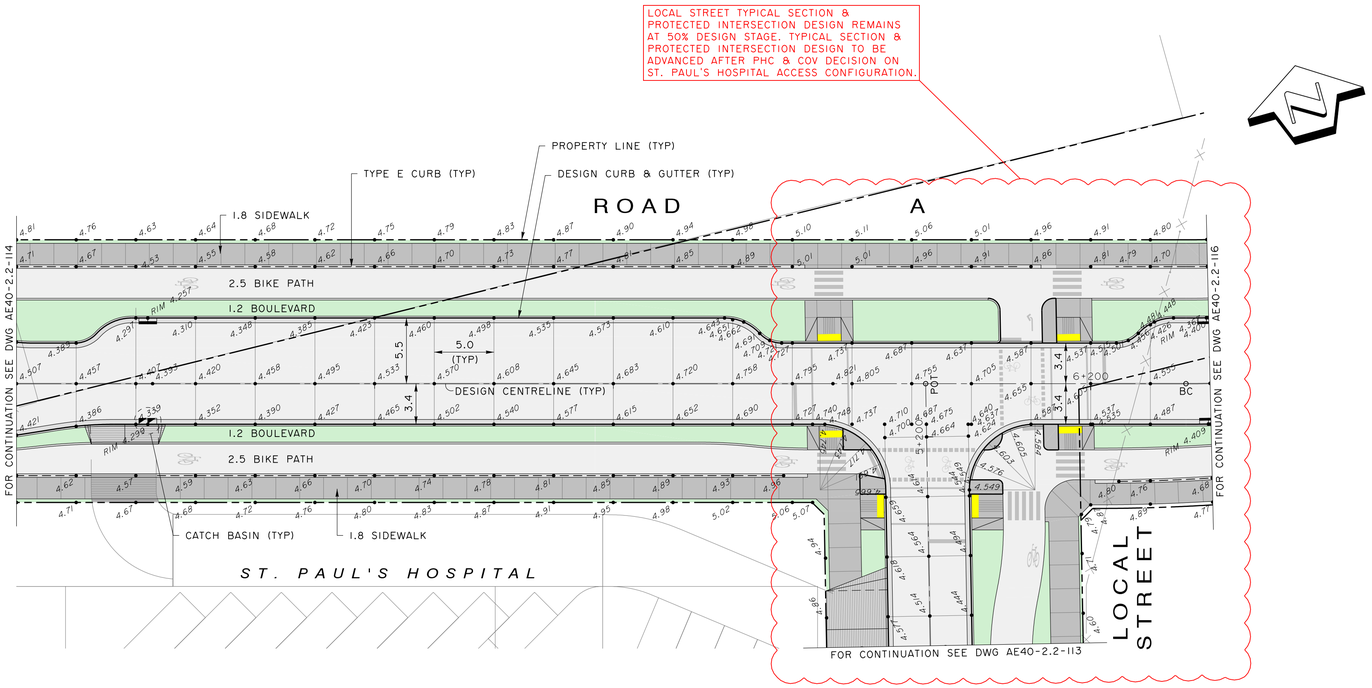
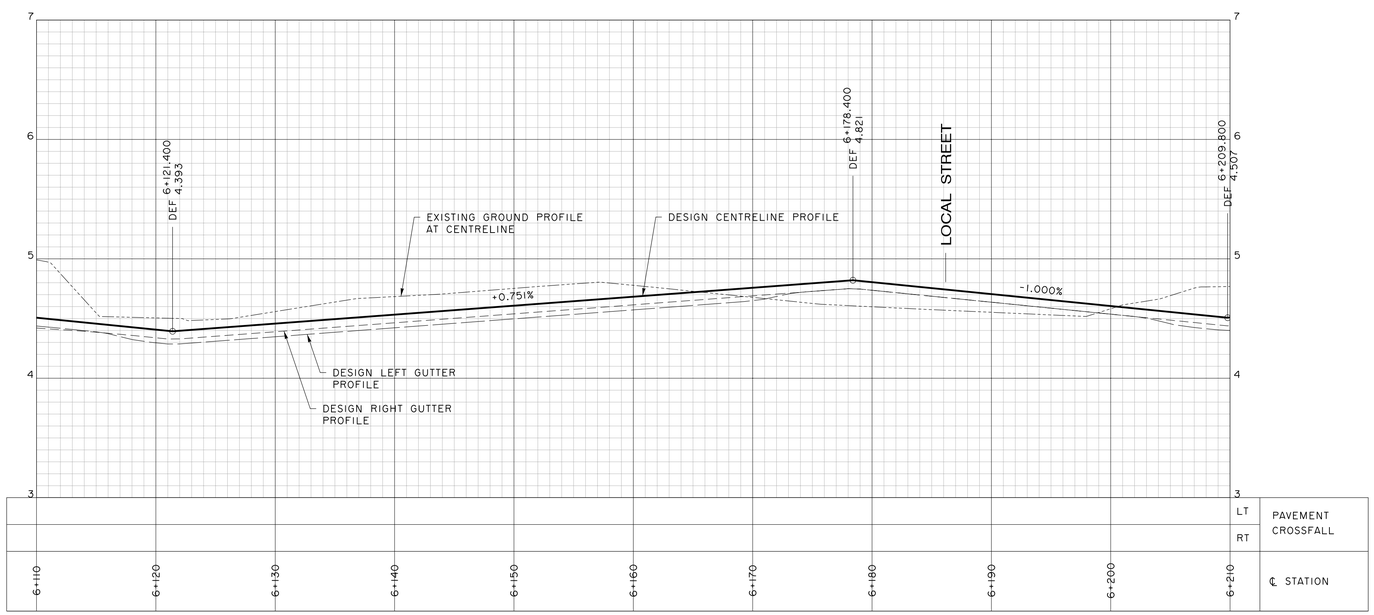
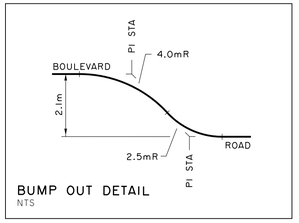




NOTES:

1. SIDEWALK TO BE IN ACCORDANCE WITH CoV STD DETAIL C1.1, C2.1 AND C2.2 WITH SAW CUT JOINTS. CONTRACTOR TO CONFIRM SCORELINE LAYOUT WITH ENGINEER PRIOR TO SAW CUTTING.
2. CURB RAMPS TO BE IN ACCORDANCE WITH CoV STD DETAIL C8.1, C8.2, C8.3 AND C8.4. TACTILE DOME STRIPS ARE REQUIRED AT ALL CURB RAMPS.
3. THE CONTRACTOR SHALL CONFIRM LOCATION AND ELEVATION OF EXISTING CURB & GUTTER AND REVIEW LAYOUT WITH ENGINEER TWO WEEKS PRIOR TO CONSTRUCTING CURB & GUTTER TIE-INS.
4. LOCATION OF DRIVEWAYS AND WHEELCHAIR RAMPS SHALL BE CONFIRMED ON SITE BY THE CITY OF VANCOUVER PRIOR TO CONSTRUCTION OF CURB & GUTTER, AND SHALL CONFORM WITH CoV STREET RESTORATION MANUAL & CoV STD DETAIL C7.1, C7.2 AND C7.3
5. ALL VALVE BOXES, MANHOLES. ETC., SHALL BE ADJUSTED TO FINISHED GRADE IN PAVED AREAS. A PROTECTIVE ASPHALT RAMP SHALL BE PLACED AROUND EACH STRUCTURE TO COMPENSATE FOR FUTURE FINAL LIFT OF PAVEMENT.
6. SUBGRADE AND GRANULAR BASE MATERIALS SHALL BE COMPACTED TO 95% MPD UNLESS OTHERWISE INDICATED. GEOTECHNICAL CONSULTANT TO REVIEW AND APPROVE THE SUBGRADE PRIOR TO PLACING ROAD GRAVELS.
7. FOR TYPICAL SECTIONS SEE DWGS AE40-2.2-401 TO 408.
8. CATCH BASIN RIM ELEVATIONS SHALL BE 30mm BELOW FINISHED GRADE.
9. FOR EARTHWORKS NOTES SEE DWG AE40-2.2-002.
10. CONSTRUCT TEMPORARY ASPHALT FILLETS ON ALL CURBS. FOR DETAIL SEE DWG AE40-2.2-452.



FOR TYPICAL SECTIONS SEE DWG AE40-2.2-408

FOR CURB RETURN STRETCH-OUTS SEE DWG AE40-2.2-XXX

FOR CoV STANDARD NOTES SEE DWG AE40-2.2-002

PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
5	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
4	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
3	20-04-20	75% DESIGN SUBMISSION	D.A.	
2	20-02-20	ISSUED FOR FEBRUARY ADDENDUM	D.Y.	
1	19-07-12	50% DESIGN SUBMISSION	D.Y.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 12:24:01 PM

Title: Roadworks Geometrics and Spot Elevations Road A Sheet 2 of 3

Drawing Number: AE40-2.2-115
Revision: 5

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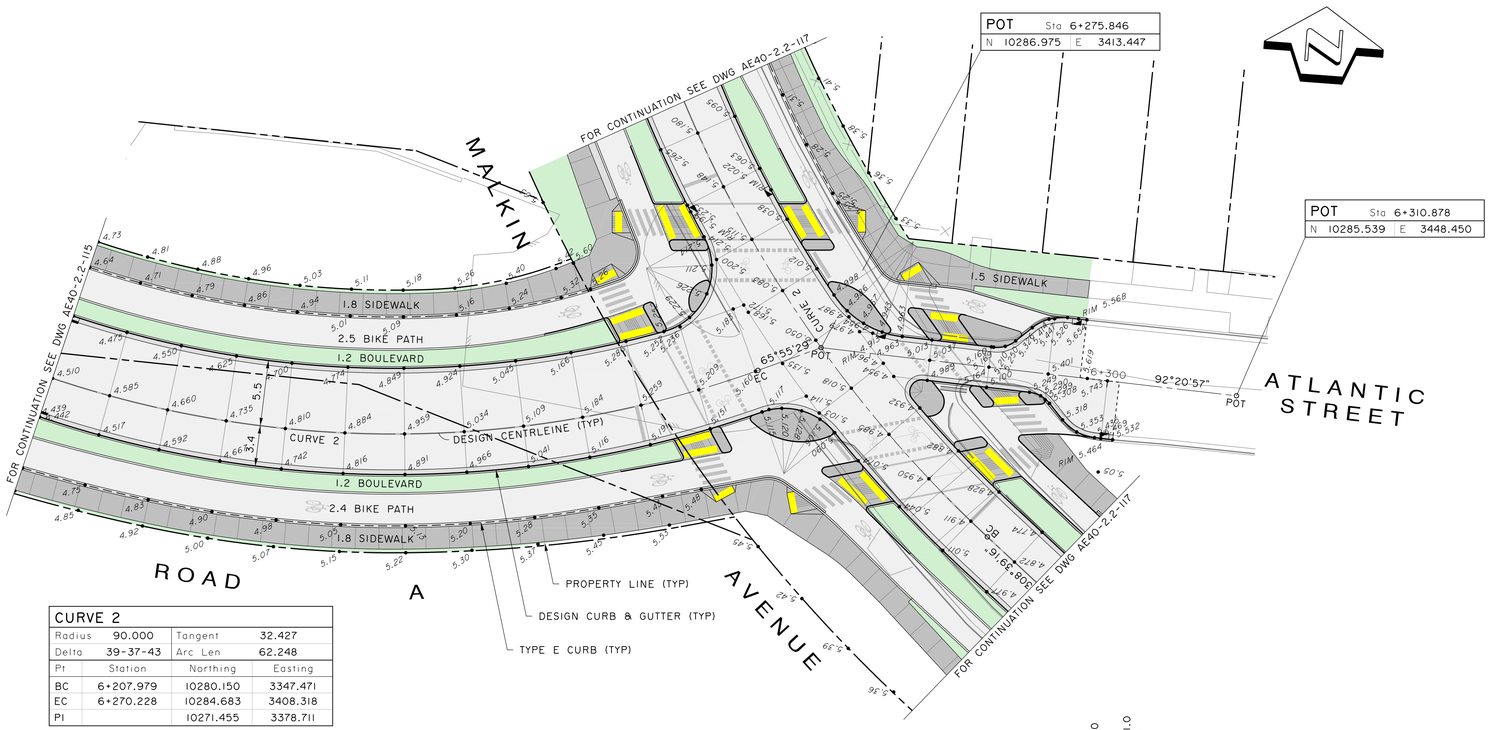
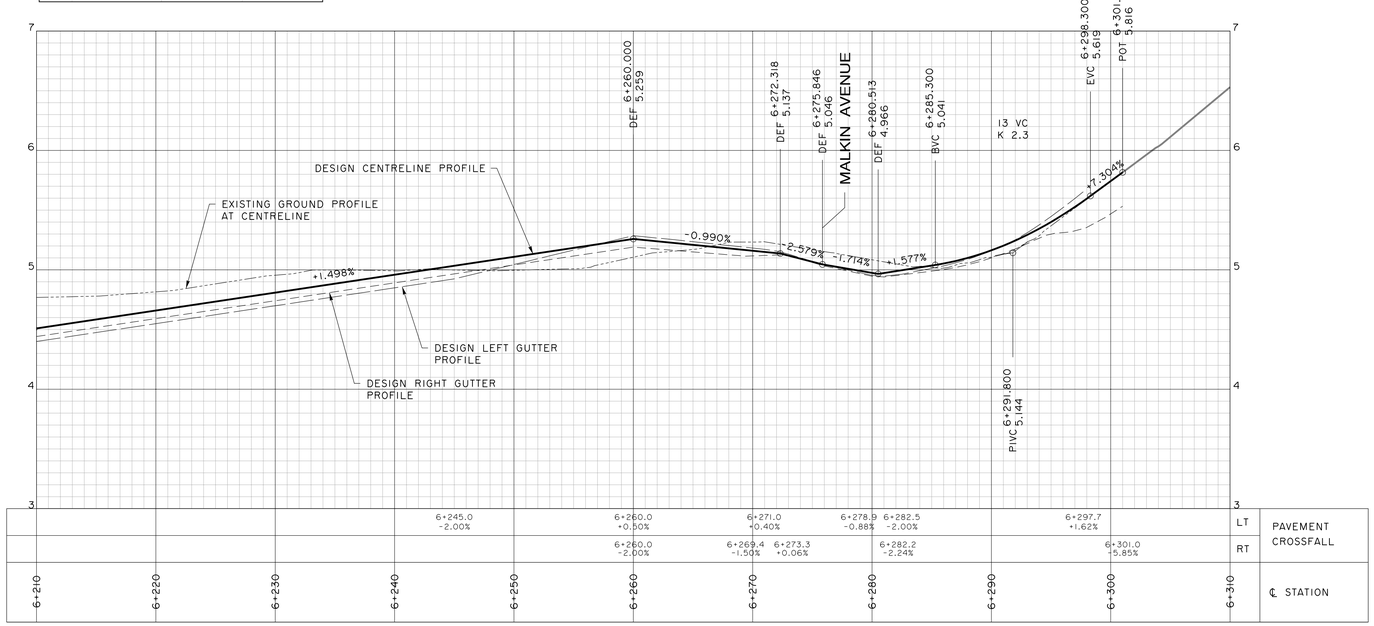
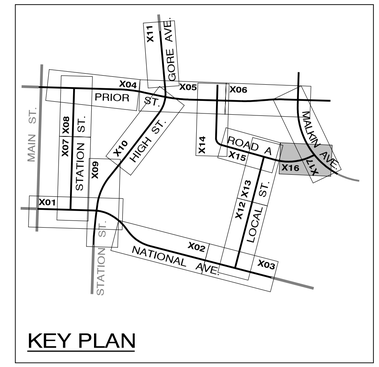


CURVE 2			
Radius	90.000	Tangent	32.427
Delta	39-37-43	Arc Len	62.248
Pt	Station	Northing	Easting
BC	6+207.979	10280.150	3347.471
EC	6+270.228	10284.683	3408.318
PI		10271.455	3378.711





KEY PLAN

NOTES:

1. SIDEWALK TO BE IN ACCORDANCE WITH CoV STD DETAIL C1.1, C2.1 AND C2.2 WITH SAW CUT JOINTS. CONTRACTOR TO CONFIRM SCORELINE LAYOUT WITH ENGINEER PRIOR TO SAW CUTTING.
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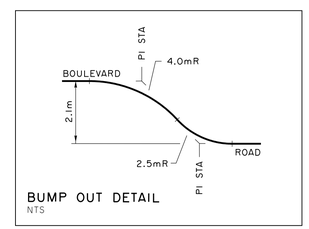
7. FOR TYPICAL SECTIONS SEE DWGS AE40-2.2-401 TO 408.
8. CATCH BASIN RIM ELEVATIONS SHALL BE 30mm BELOW FINISHED GRADE.
9. FOR EARTHWORKS NOTES SEE DWG AE40-2.2-002.
10. CONSTRUCT TEMPORARY ASPHALT FILLETS ON ALL CURBS. FOR DETAIL SEE DWG AE40-2.2-452.



BUMP OUT DETAIL
NTS

FOR TYPICAL SECTIONS SEE DWG AE40-2.2-408

FOR CURB RETURN STRETCH-OUTS SEE DWG AE40-2.2-XXX

FOR CoV STANDARD NOTES SEE DWG AE40-2.2-002

PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
5	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
4	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
3	20-04-20	75% DESIGN SUBMISSION	D.A.	
2	20-02-20	ISSUED FOR FEBRUARY ADDENDUM	D.Y.	
1	19-07-12	50% DESIGN SUBMISSION	D.Y.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 12:24:24 PM

Title: Roadworks Geometrics and Spot Elevations Road A Sheet 3 of 3

Drawing Number: AE40-2.2-116
Revision: 5

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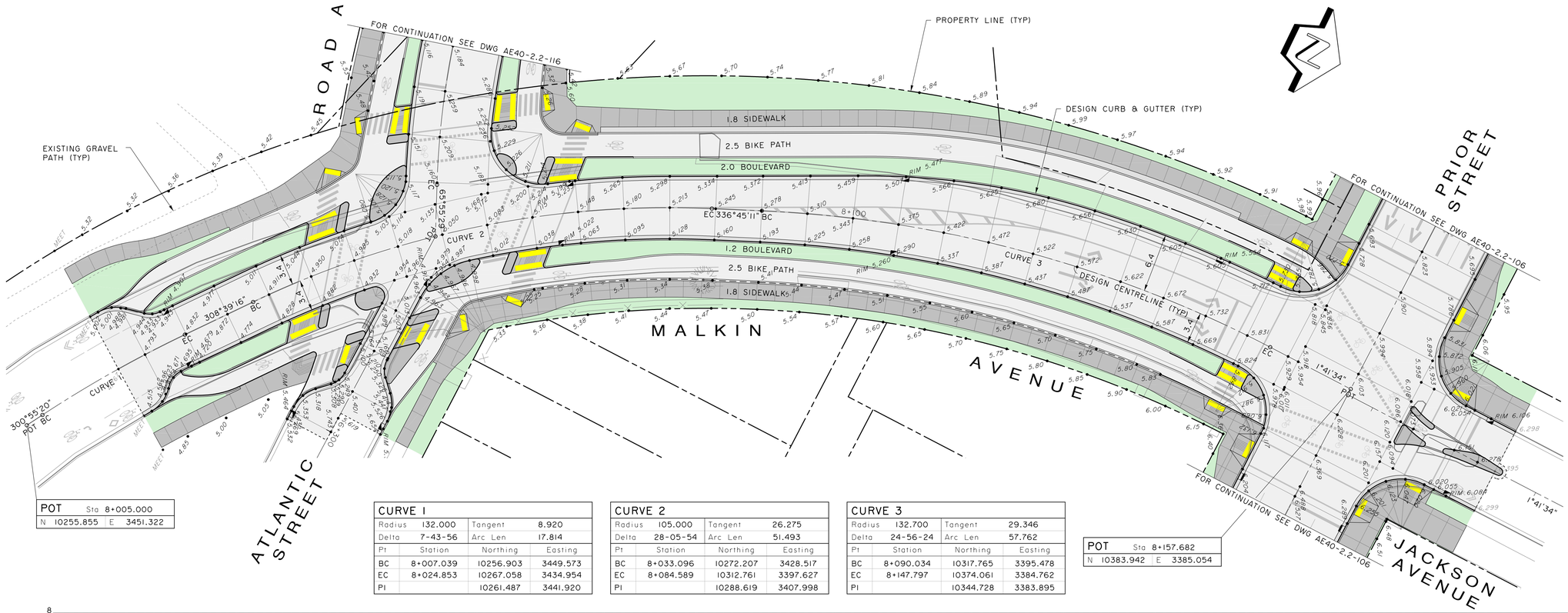
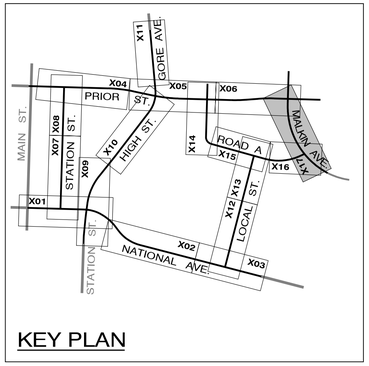


CURVE 1			
Radius	132.000	Tangent	8.920
Delta	7-43-56	Arc Len	17.814
Pt	Station	Northing	Easting
BC	8+007.039	10256.903	3449.573
EC	8+024.853	10267.058	3434.954
PI		10261.487	3441.920

CURVE 2			
Radius	105.000	Tangent	26.275
Delta	28-05-54	Arc Len	51.493
Pt	Station	Northing	Easting
BC	8+033.096	10272.207	3428.517
EC	8+084.589	10312.761	3397.627
PI		10288.619	3407.998

CURVE 3			
Radius	132.700	Tangent	29.346
Delta	24-56-24	Arc Len	57.762
Pt	Station	Northing	Easting
BC	8+090.034	10317.765	3395.478
EC	8+147.797	10374.061	3384.762
PI		10344.728	3383.895



NOTES:

1. SIDEWALK TO BE IN ACCORDANCE WITH CoV STD DETAIL C1.1, C2.1 AND C2.2 WITH SAW CUT JOINTS. CONTRACTOR TO CONFIRM SCORELINE LAYOUT WITH ENGINEER PRIOR TO SAW CUTTING.
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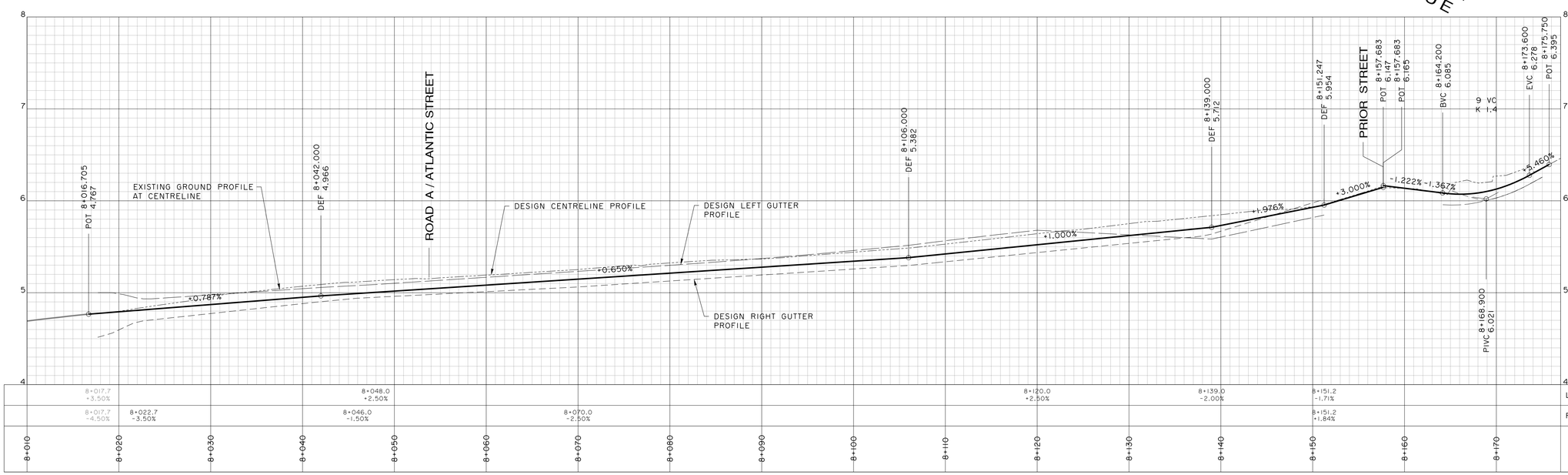
7. FOR TYPICAL SECTIONS SEE DWGS AE40-2.2-401 TO 408.
8. CATCH BASIN RIM ELEVATIONS SHALL BE 30mm BELOW FINISHED GRADE.
9. FOR EARTHWORKS NOTES SEE DWG AE40-2.2-002.
10. CONSTRUCT TEMPORARY ASPHALT FILLETS ON ALL CURBS. FOR DETAIL SEE DWG AE40-2.2-452.

FOR TYPICAL SECTION SEE DWG AE40-2.2-406

FOR CURB RETURN STRETCH-OUTS SEE DWG AE40-2.2-XXX

FOR CoV STANDARD NOTES SEE DWG AE40-2.2-002



PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
5	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
4	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
3	20-04-20	75% DESIGN SUBMISSION	D.A.	
2	20-02-20	ISSUED FOR FEBRUARY ADDENDUM	D.Y.	
1	19-07-12	50% DESIGN SUBMISSION	D.Y.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: D. ARNOLD
Plot Date: 21/01/18
Plot Time: 12:24:39 PM

Title: Roadworks Geometrics and Spot Elevations Malkin Avenue

Drawing Number: AE40-2.2-117
Revision: 5

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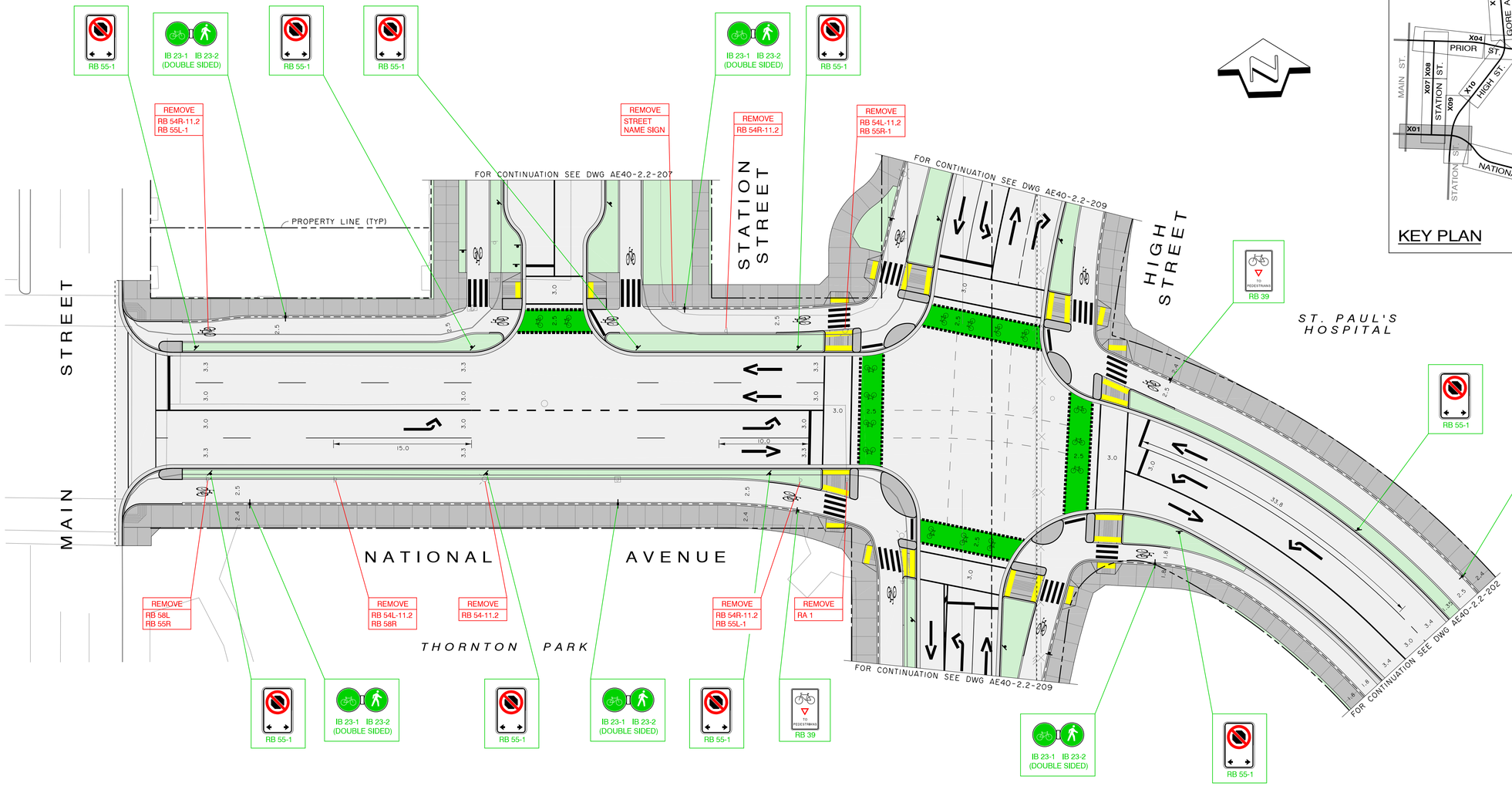
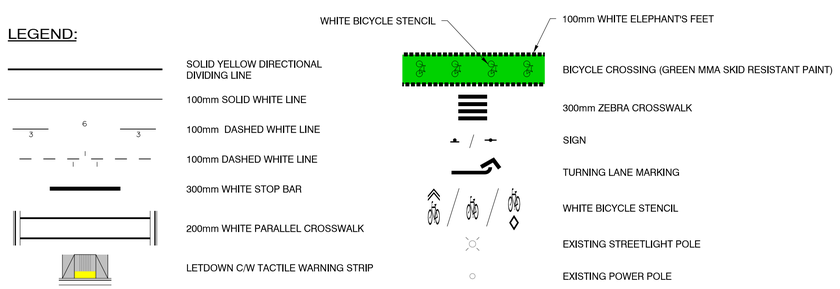


NOTES:

1. ALL SIGNS SHALL CONFORM TO THE CITY OF VANCOUVER SIGN CODE INVENTORY MANUAL-2017
2. SIGN INSTALLATION AND LAYOUT AS PER CITY OF VANCOUVER DESIGN CRITERIA MANUAL
3. ALL EXISTING SIGNS AND MARKINGS TO BE REMOVED UNLESS OTHERWISE NOTED
4. ALL PAVEMENT MARKINGS AS PER CITY OF VANCOUVER STANDARD DETAIL DRAWINGS OF DESIGN CRITERIA MANUAL
5. GREEN MMA SKID RESISTANT PAINT IN ACCORDANCE WITH CITY OF VANCOUVER PAINT STANDARD CHROME GREEN METHYL METHACRYLATE
6. DIRECTIONAL DIVIDING LINES, LANE LINES TO BE QUICK DRY PAINT (NO CONES NEEDED) WITH GLASS BEADS
7. CROSSWALKS, STOP BARS AT CROSSWALKS, BUS LANE DIAMONDS, GUIDE LINES, TURN ARROWS, STENCILS AND CYCLING FACILITIES PAVEMENT MARKINGS TO BE THERMOPLASTICS
8. ALL OTHER PAINTED LINES ARE CONED PAINT WITHOUT GLASS BEADS
9. REMOVE EXISTING PAVEMENT MARKING IN CONFLICT WITH SIGNAGE AND PAVEMENT MARKING DRAWINGS AS PER SPECS WHERE APPLICABLE
10. BICYCLE WAYFINDING SIGNAGE TO BE CONFIRMED WITH CITY

LEGEND:



PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
3	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
2	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
1	20-04-20	75% DESIGN SUBMISSION	D.A.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 1:22:13 PM

Title: Sign and Pavement Markings
National Avenue
Sheet 1 of 3

Drawing Number: AE40-2.2-201
Revision: 3

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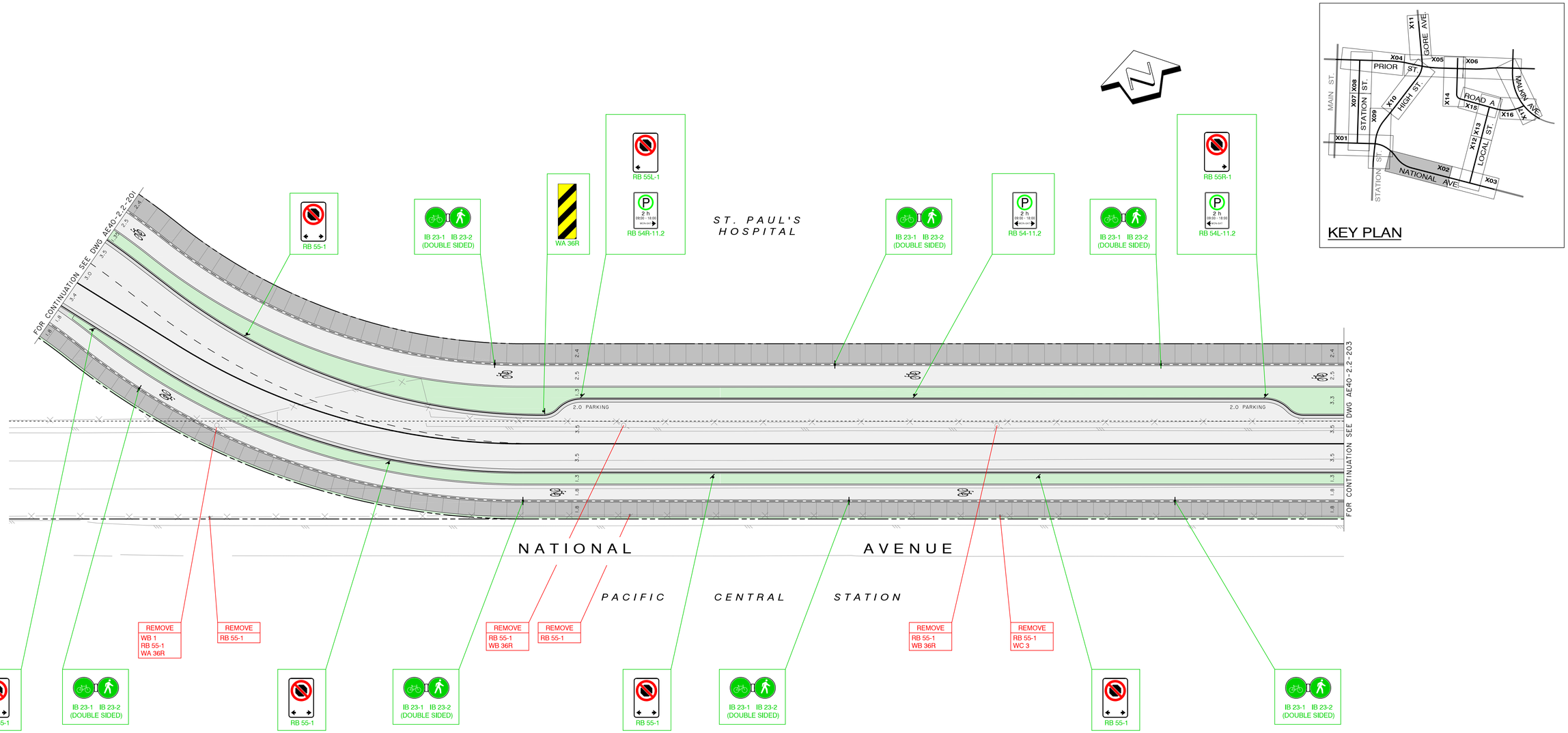

NOTES:

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6. DIRECTIONAL DIVIDING LINES, LANE LINES TO BE QUICK DRY PAINT (NO CONES NEEDED) WITH GLASS BEADS
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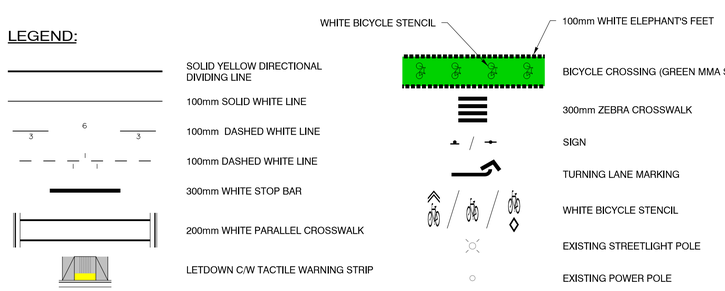
8. ALL OTHER PAINTED LINES ARE CONED PAINT WITHOUT GLASS BEADS
9. REMOVE EXISTING PAVEMENT MARKING IN CONFLICT WITH SIGNAGE AND PAVEMENT MARKING DRAWINGS AS PER SPECS WHERE APPLICABLE
10. BICYCLE WAYFINDING SIGNAGE TO BE CONFIRMED WITH CITY

LEGEND:



PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
3	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
2	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
1	20-04-20	75% DESIGN SUBMISSION	D.A.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 1:22:25 PM

Title: Sign and Pavement Markings
National Avenue
Sheet 2 of 3

Drawing Number: AE40-2.2-202
Revision: 3

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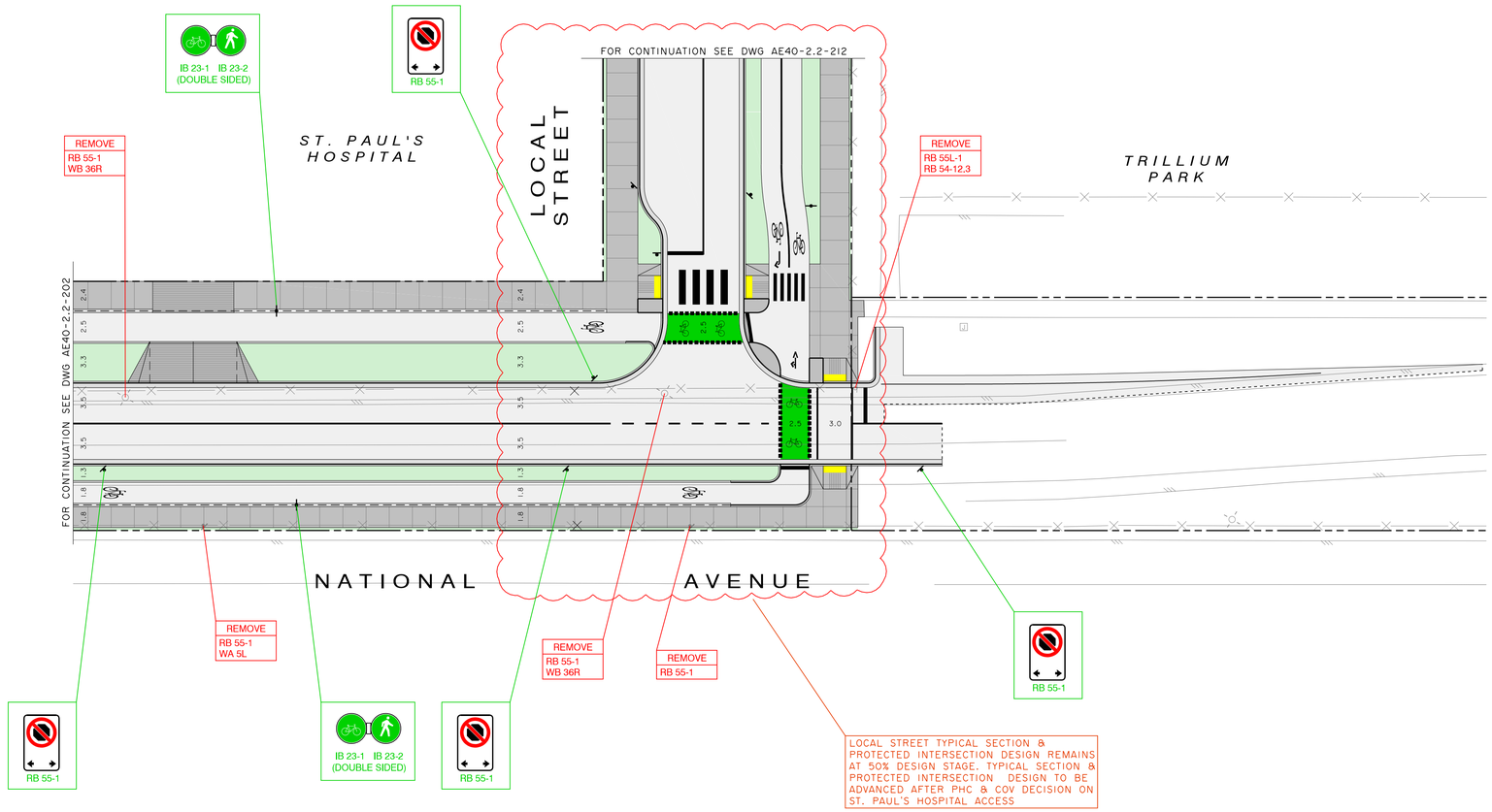

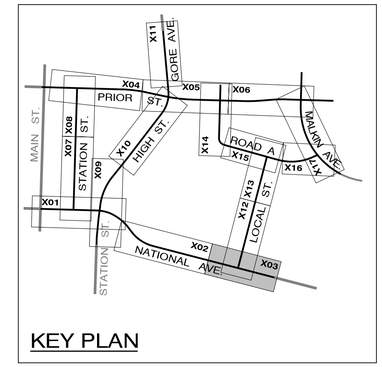

NOTES:

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3. ALL EXISTING SIGNS AND MARKINGS TO BE REMOVED UNLESS OTHERWISE NOTED
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5. GREEN MMA SKID RESISTANT PAINT IN ACCORDANCE WITH CITY OF VANCOUVER PAINT STANDARD CHROME GREEN METHYL METHACRYLATE
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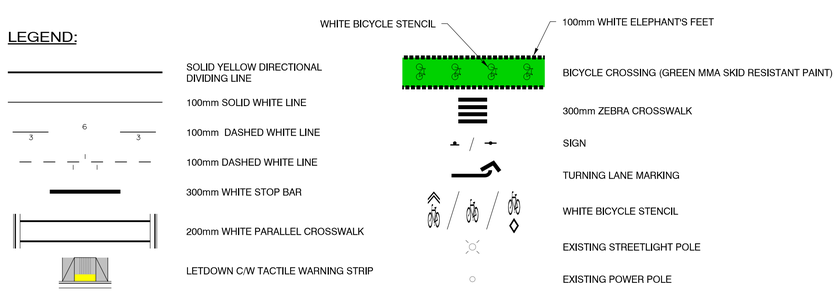
10. BICYCLE WAYFINDING SIGNAGE TO BE CONFIRMED WITH CITY

LEGEND:



PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
2	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
1	20-04-20	75% DESIGN SUBMISSION	D.A.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 1:22:33 PM

Title: Sign and Pavement Markings
National Avenue
Sheet 3 of 3

Drawing Number: AE40-2.2-203
Revision: 3

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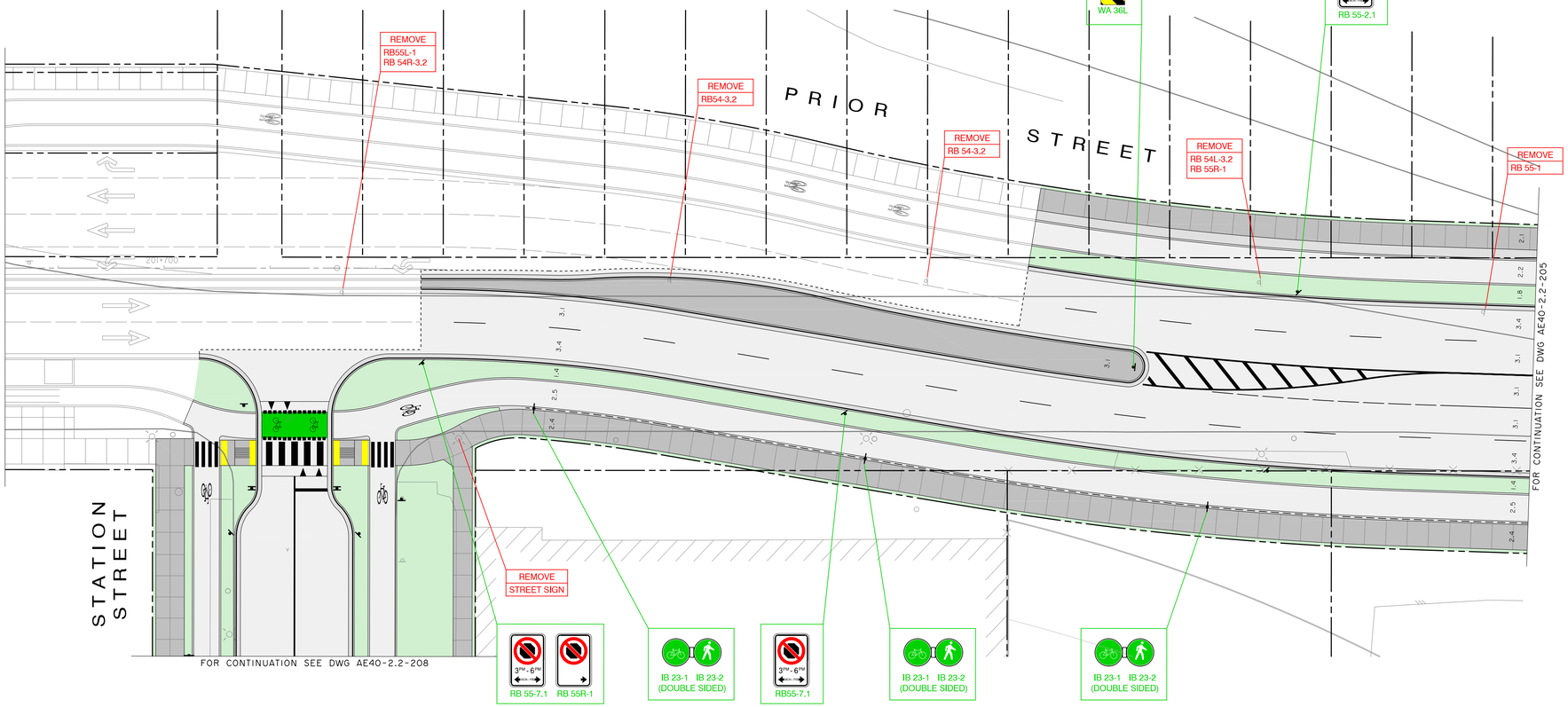

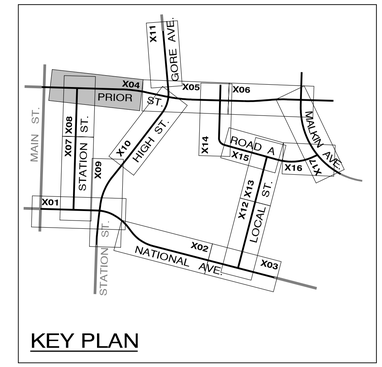

KEY PLAN

NOTES:

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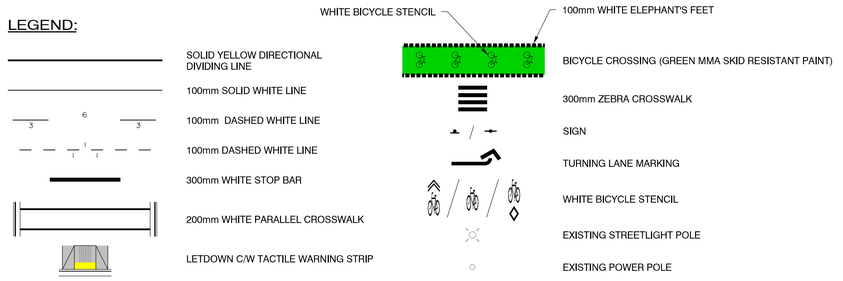

PRELIMINARY

InterCAD
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NO.	DATE	REVISIONS	BY	APPROVED
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Client: IBI Group / Providence Health Care

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Scale: 0 5 10 15 — 1:250

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Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 1:22:44 PM

Title: Sign and Pavement Markings
Prior Street
Sheet 1 of 3

Drawing Number: AE40-2.2-204
Revision: 3

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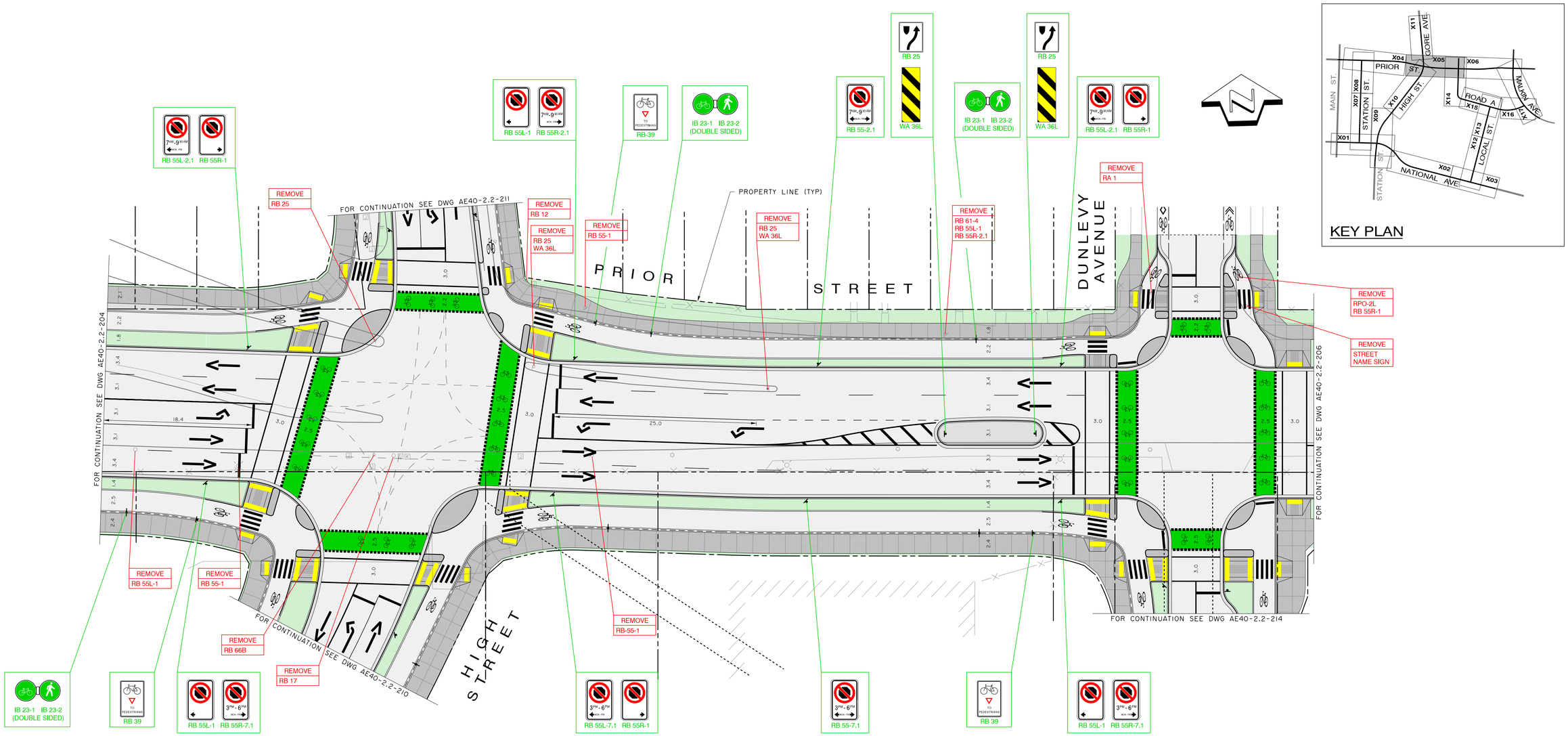

NOTES:

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10. BICYCLE WAYFINDING SIGNAGE TO BE CONFIRMED WITH CITY

LEGEND:

- SOLID YELLOW DIRECTIONAL DIVIDING LINE
- 100mm SOLID WHITE LINE
- 100mm DASHED WHITE LINE (3 / 6 / 3)
- 100mm DASHED WHITE LINE (1 / 1)
- 300mm WHITE STOP BAR
- 200mm WHITE PARALLEL CROSSWALK
- LETDOWN C/W TACTILE WARNING STRIP
- WHITE BICYCLE STENCIL
- 100mm WHITE ELEPHANT'S FEET
- BICYCLE CROSSING (GREEN MMA SKID RESISTANT PAINT)
- 300mm ZEBRA CROSSWALK
- SIGN
- TURNING LANE MARKING
- WHITE BICYCLE STENCIL
- EXISTING STREETLIGHT POLE
- EXISTING POWER POLE

PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
3	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
2	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
1	20-04-20	75% DESIGN SUBMISSION	D.A.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 1:22:55 PM

Title: Sign and Pavement Markings
Prior Street
Sheet 2 of 3

Drawing Number: AE40-2.2-205
Revision: 3

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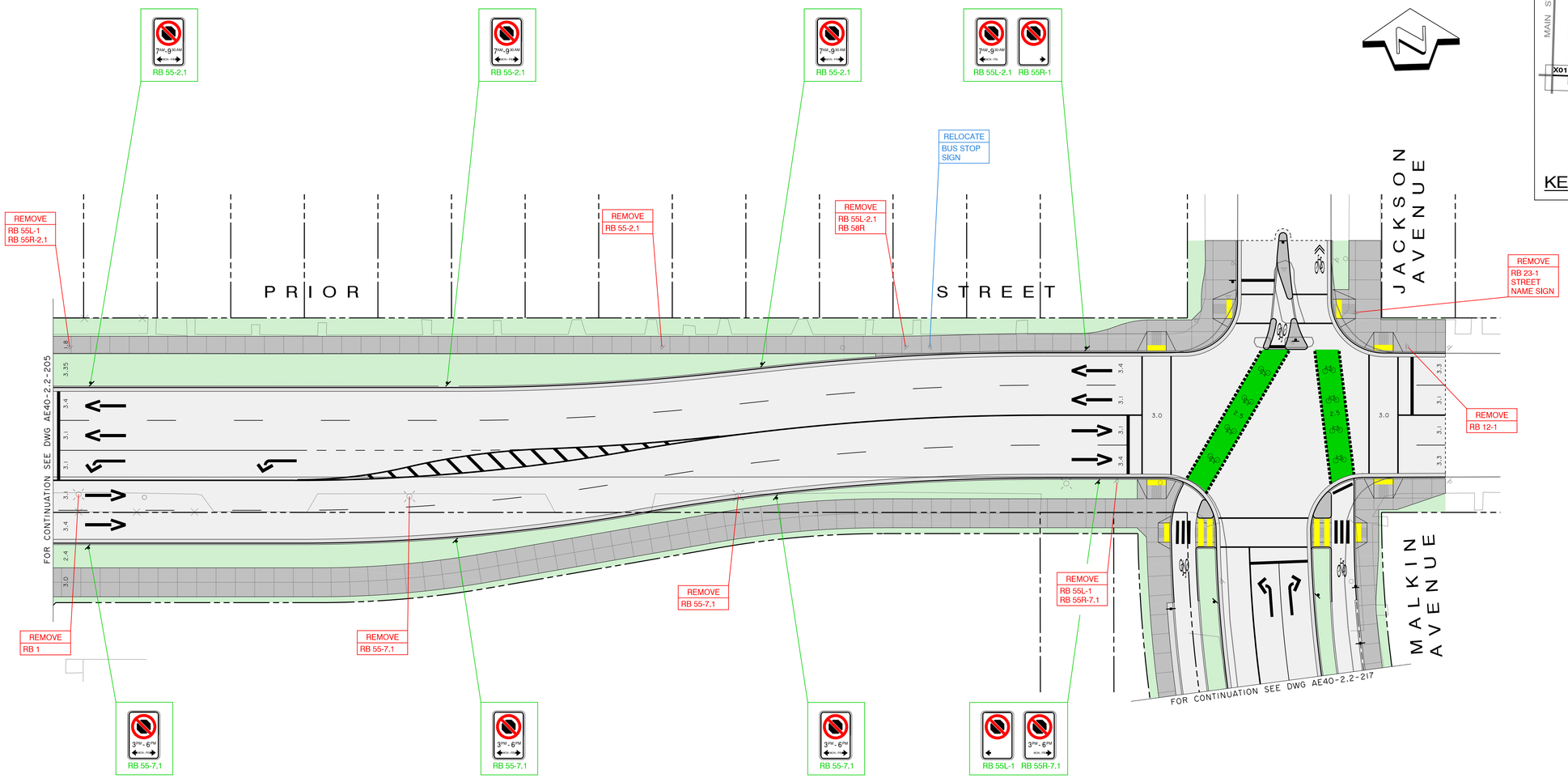

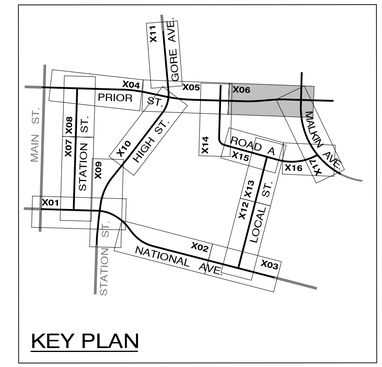

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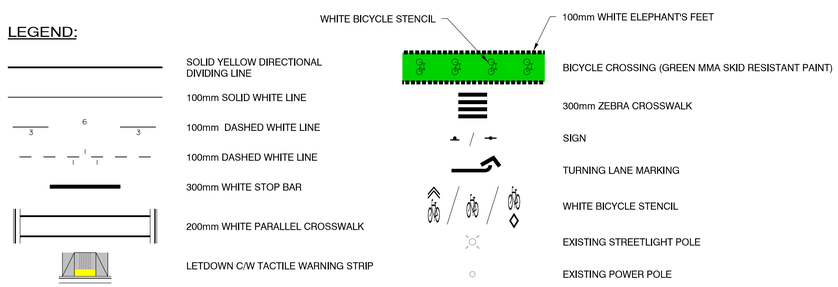

PRELIMINARY

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1	20-04-20	75% DESIGN SUBMISSION	D.A.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 1:23:06 PM

Title: Sign and Pavement Markings
Prior Street
Sheet 3 of 3

Drawing Number: AE40-2.2-206
Revision: 3

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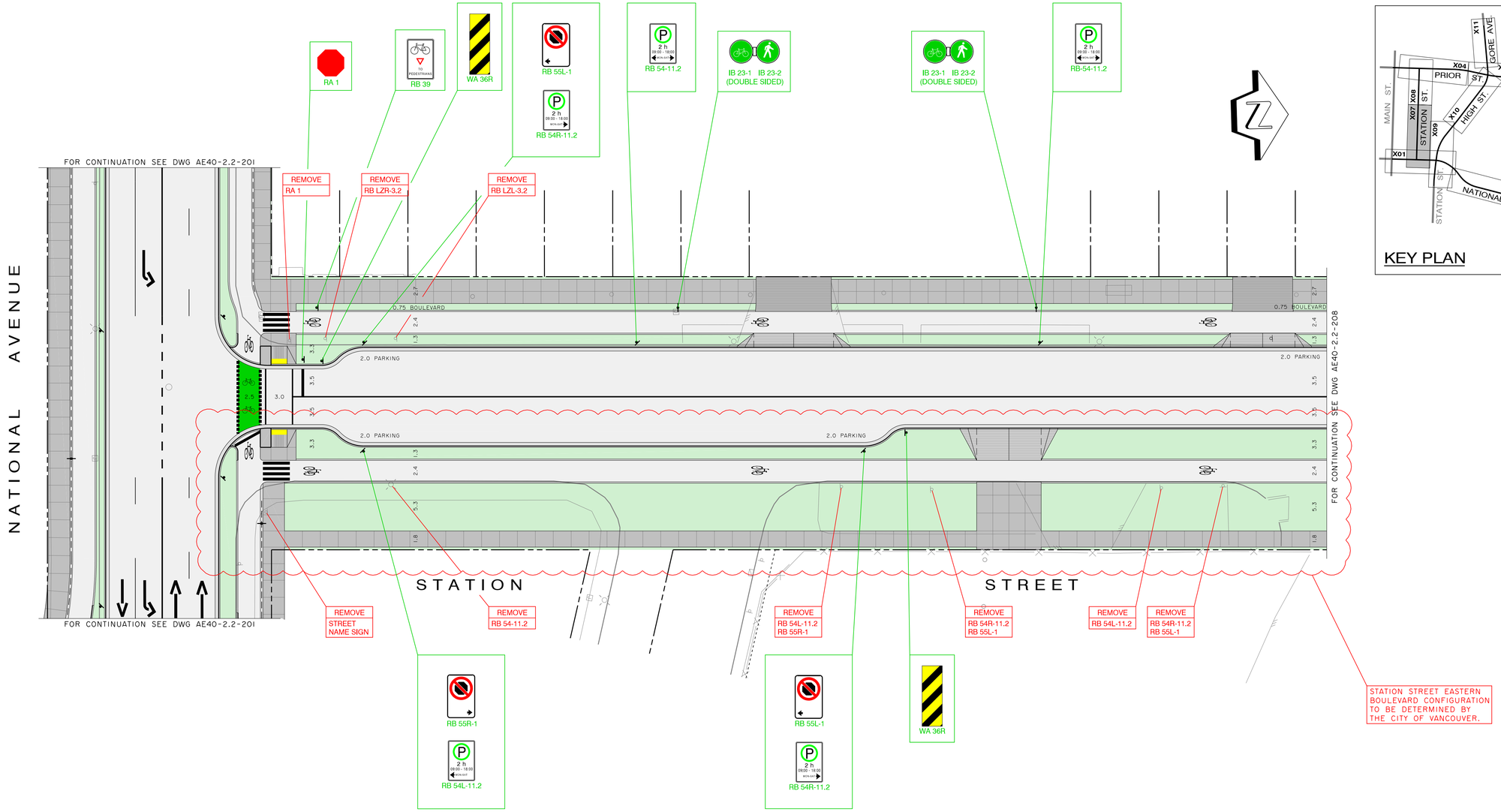

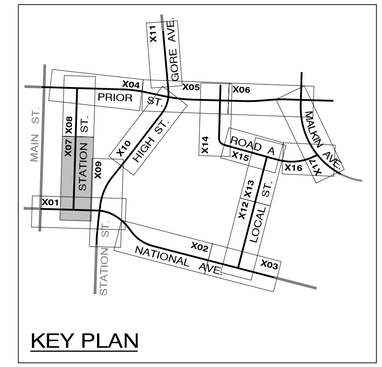

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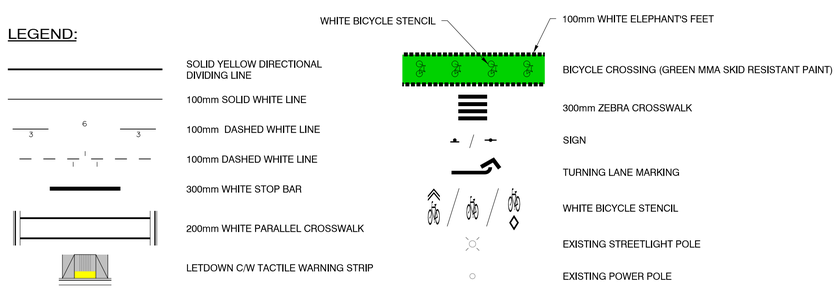
LEGEND:



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Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 1:23:15 PM

Title: Sign and Pavement Markings
Station Street
Sheet 1 of 2

Drawing Number: AE40-2.2-207
Revision: 3

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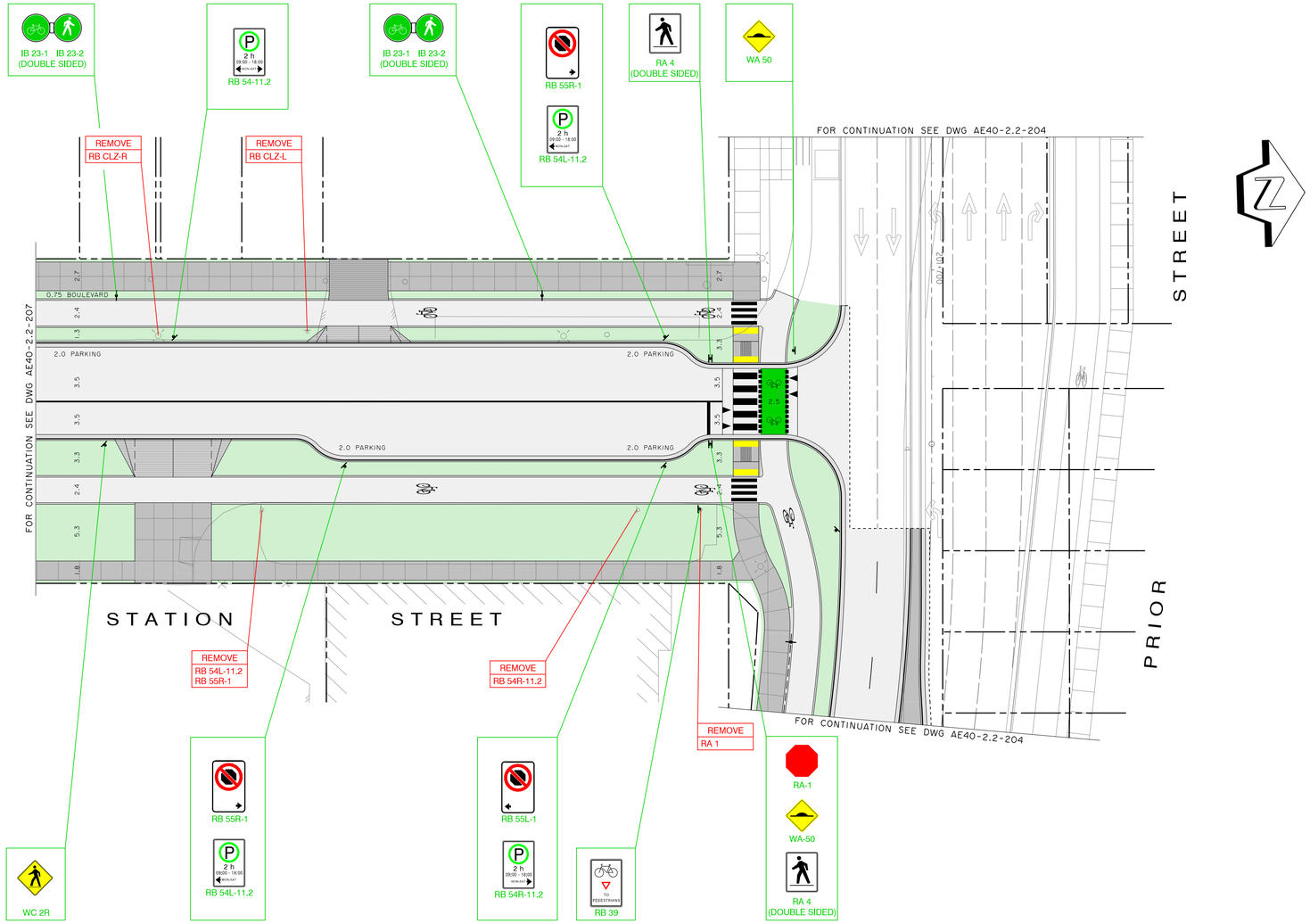

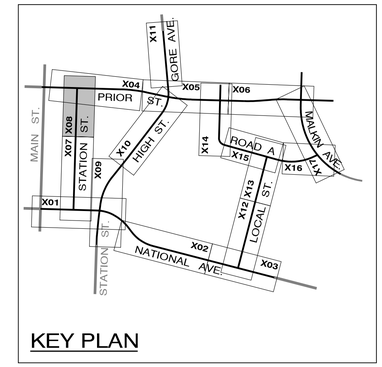

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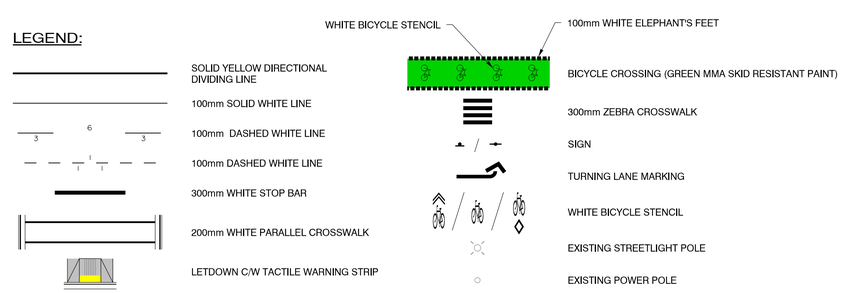

PRELIMINARY

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Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 1:23:26 PM

Title: Sign and Pavement Markings
Station Street
Sheet 2 of 2

Drawing Number: AE40-2.2-208
Revision: 3

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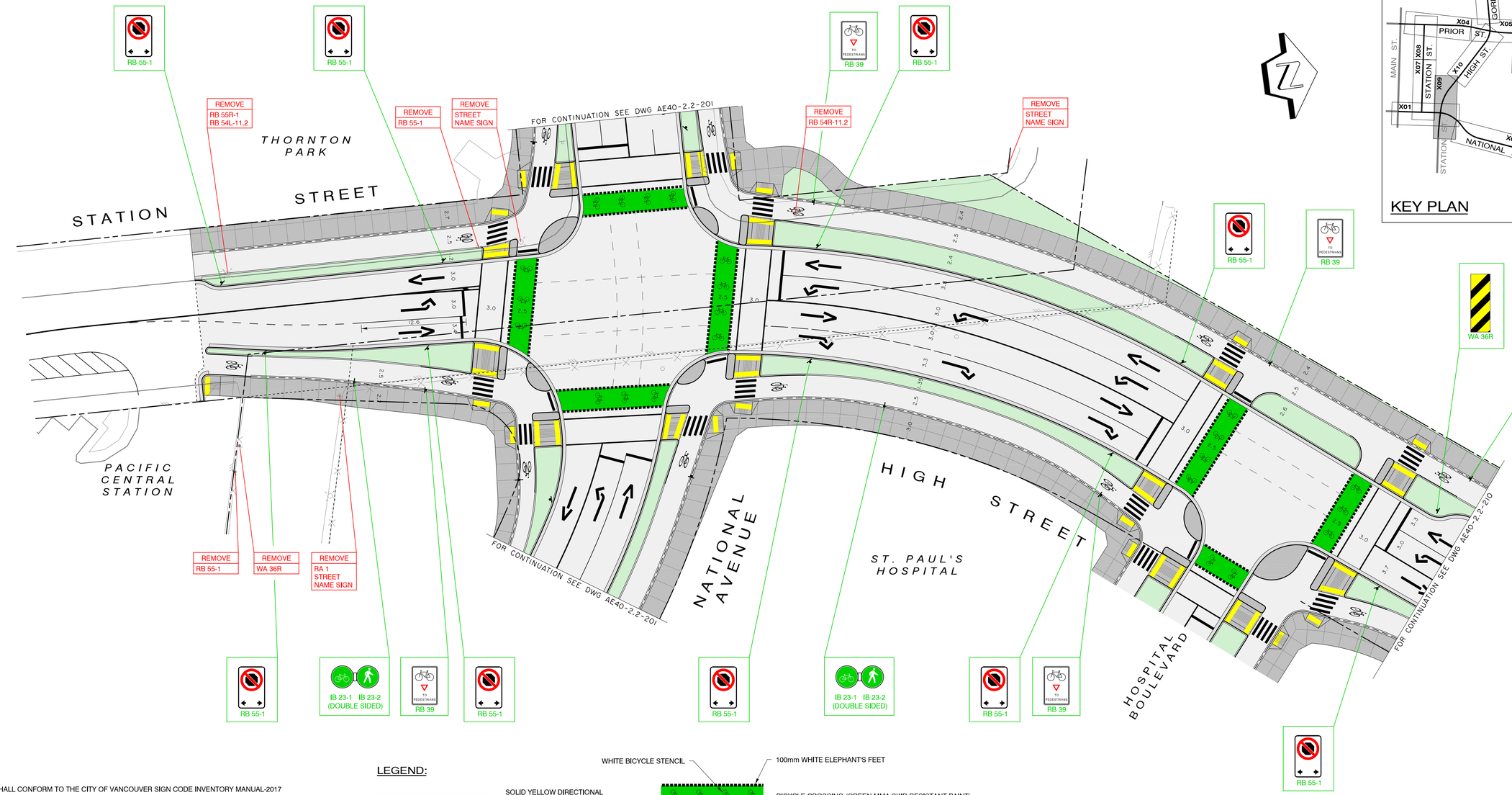

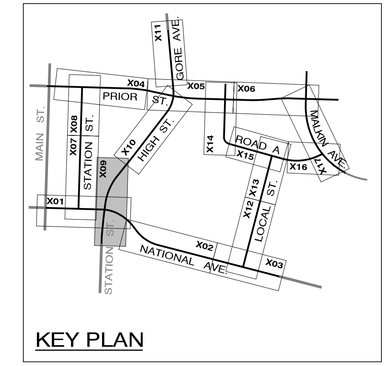

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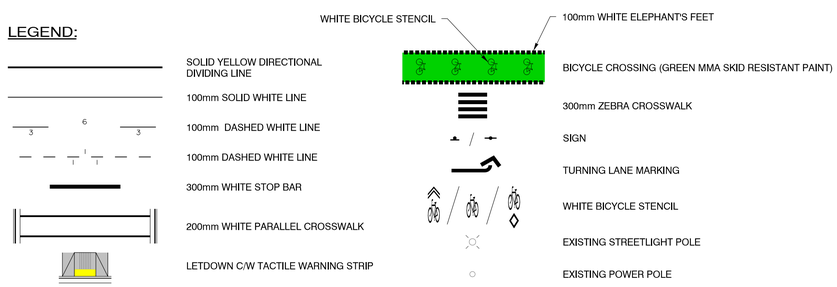

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Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 1:23:36 PM

Title: Sign and Pavement Markings
High Street
Sheet 1 of 2

Drawing Number: AE40-2.2-209
Revision: 3

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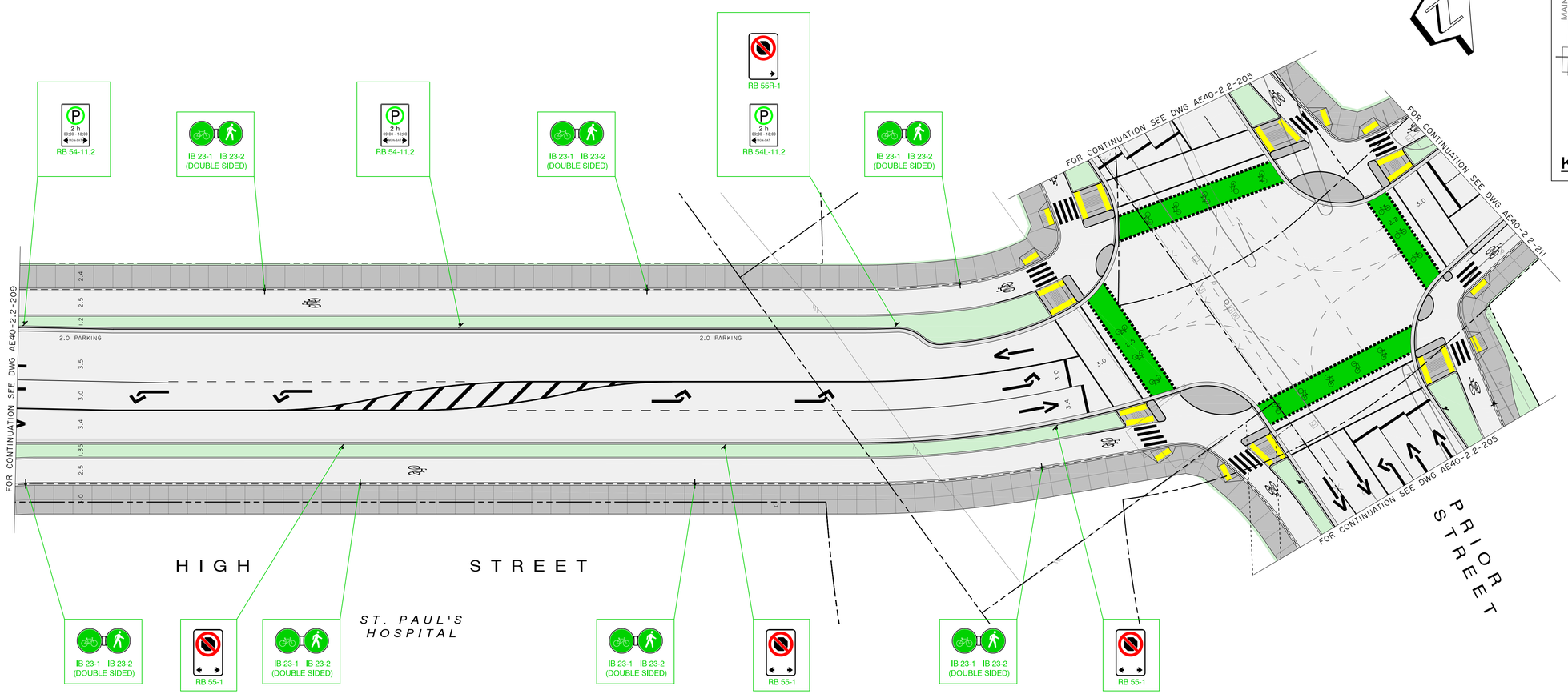

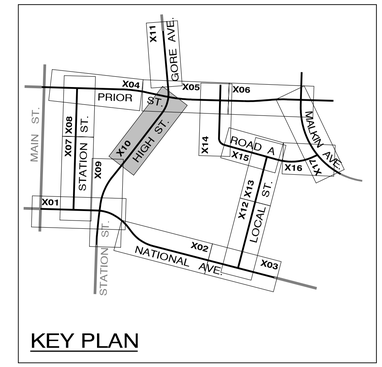

KEY PLAN

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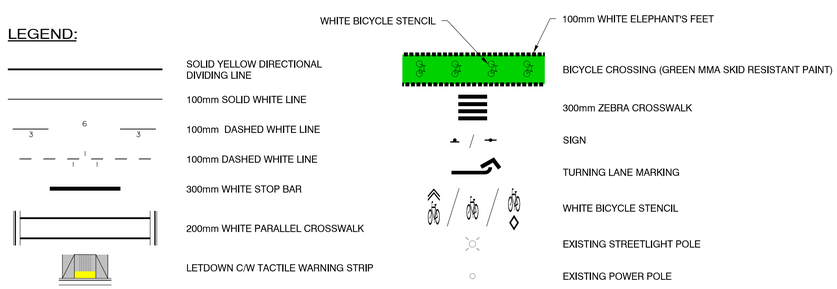

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Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 1:24:12 PM

Title: Sign and Pavement Markings
High Street
Sheet 2 of 2

Drawing Number: AE40-2.2-210
Revision: 3

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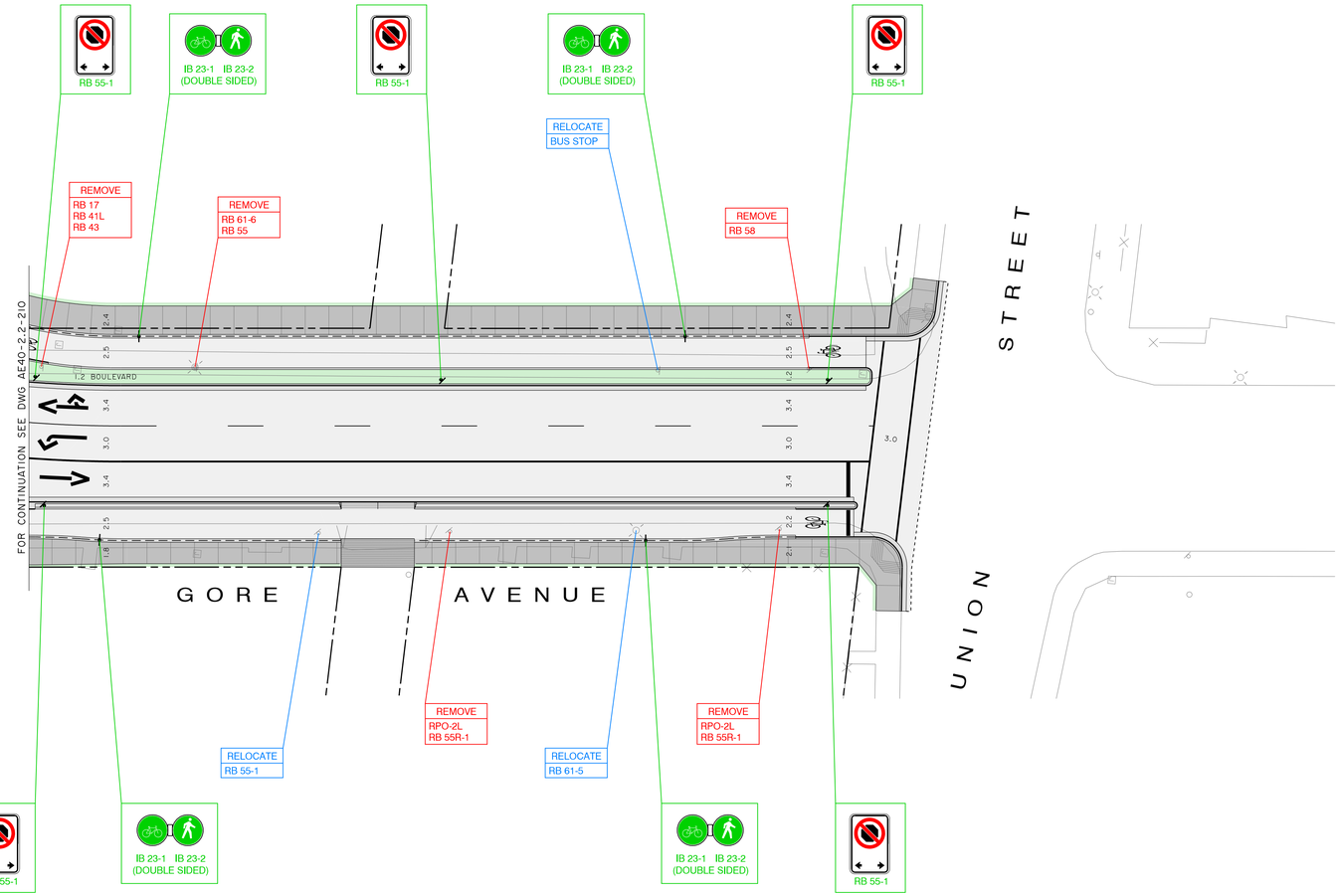

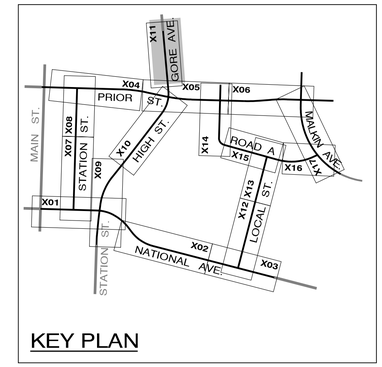

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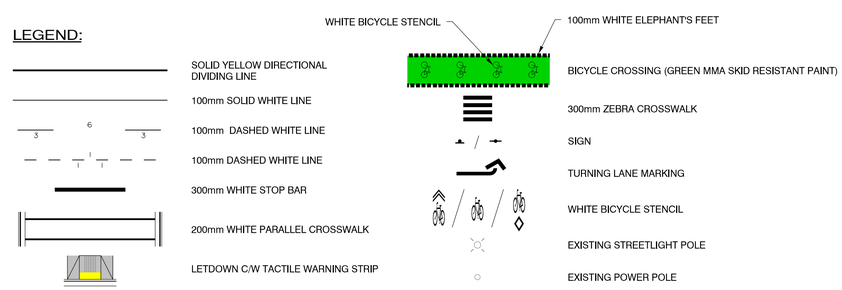

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Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 1:24:28 PM

Title: Sign and Pavement Markings
Local Street
Sheet 1 of 3

Drawing Number: AE40-2.2-211
Revision: 3

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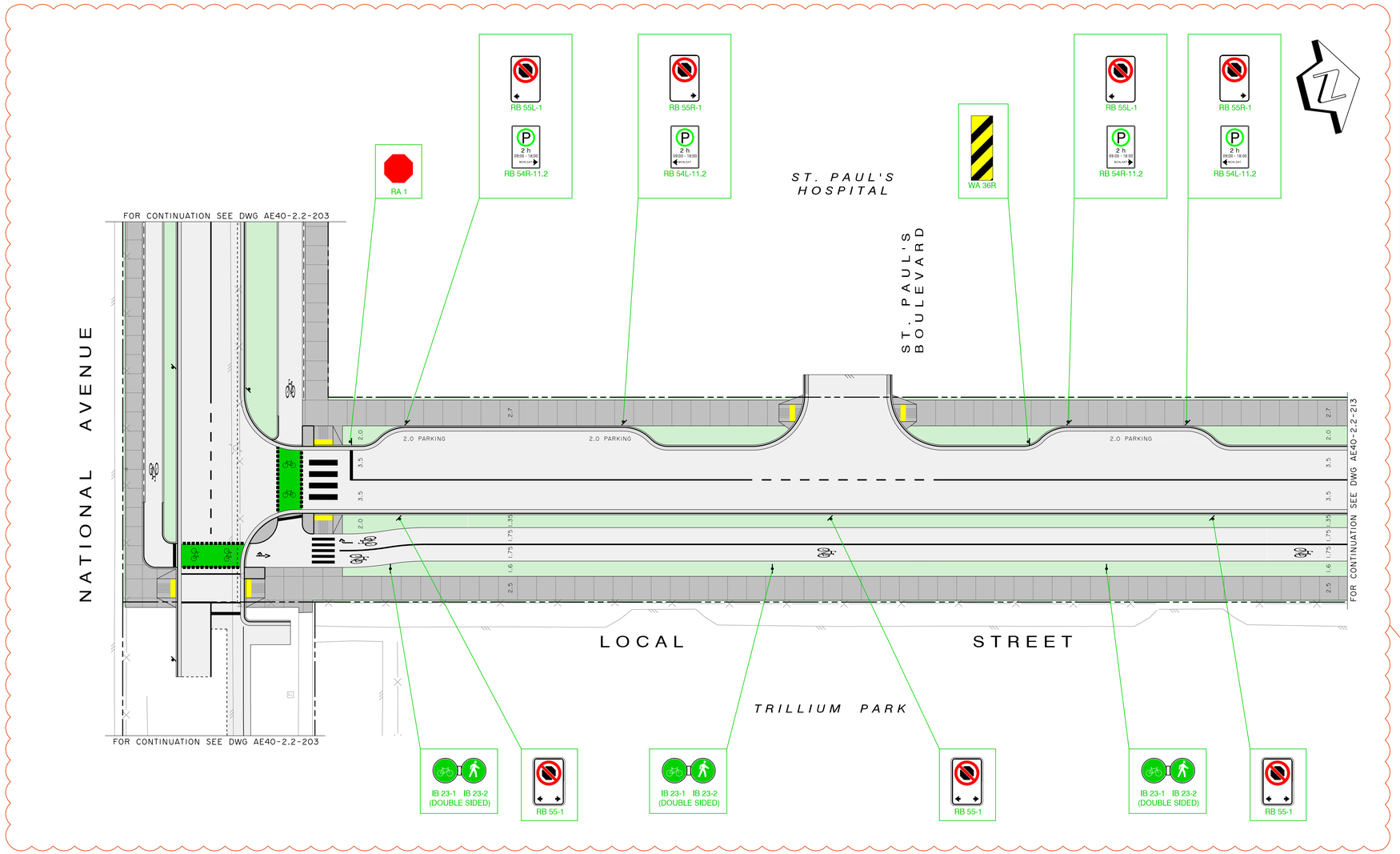

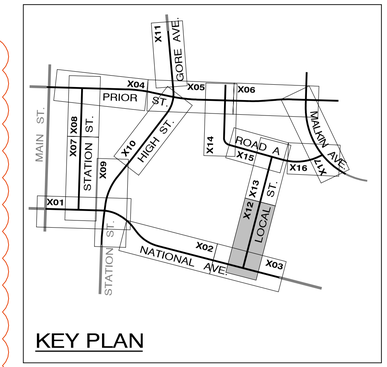

KEY PLAN

LOCAL STREET TYPICAL SECTION & PROTECTED INTERSECTION DESIGN REMAINS AT 50% DESIGN STAGE. TYPICAL SECTION & PROTECTED INTERSECTION DESIGN TO BE ADVANCED AFTER PHC & COV DECISION ON ST. PAUL'S HOSPITAL ACCESS CONFIGURATION.

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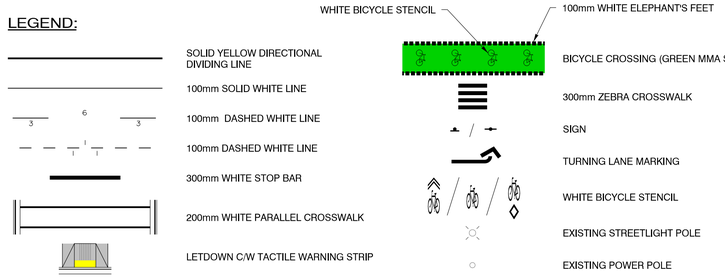

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Design: D. YOUNG
Drawn: D. ARNOLD
Plot Date: 21/01/18
Plot Time: 1:24:40 PM

Title: Sign and Pavement Markings
Local Street
Sheet 1 of 2

Drawing Number: AE40-2.2-212
Revision: 3

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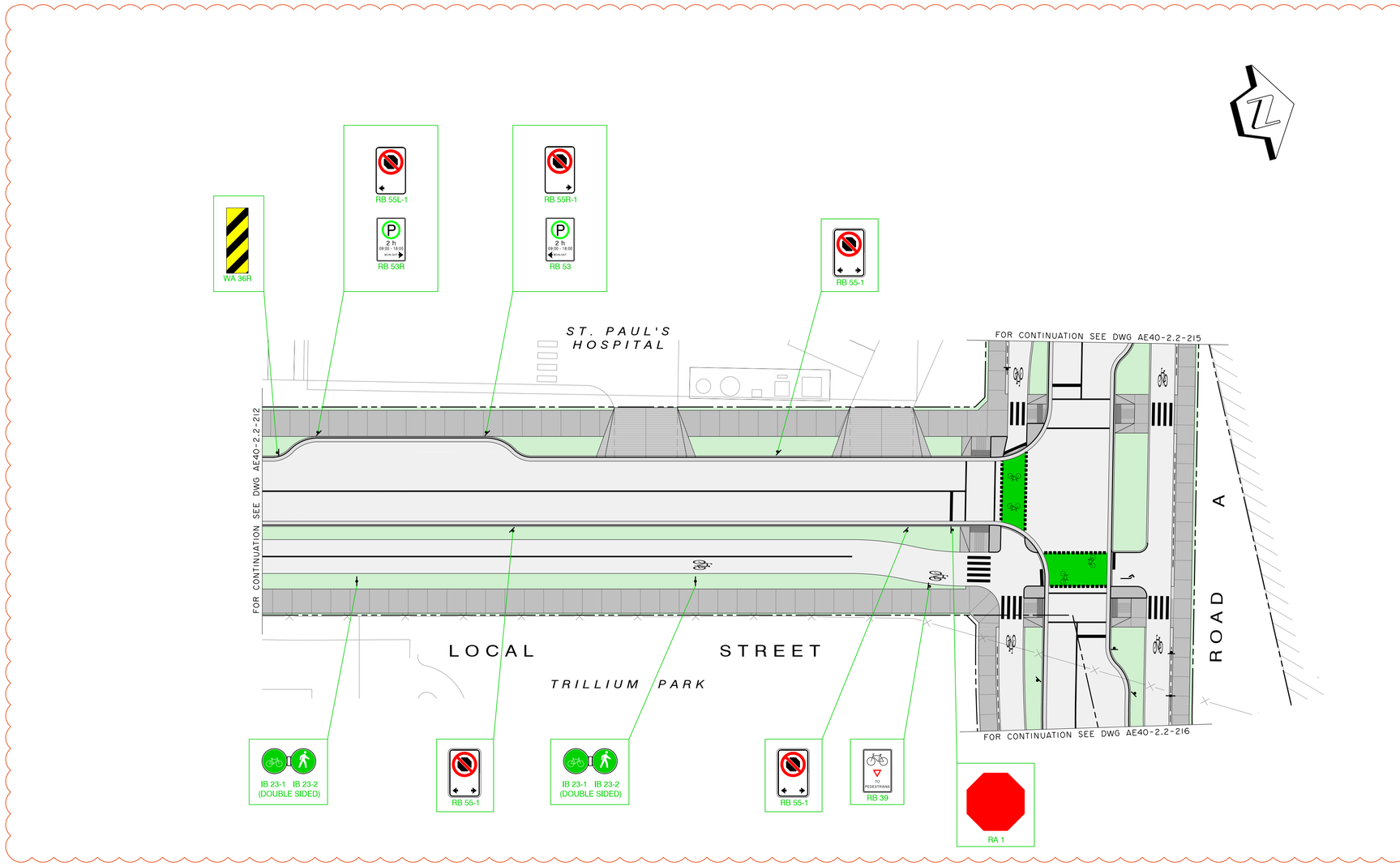

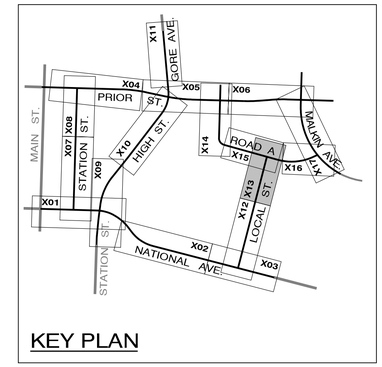

LOCAL STREET TYPICAL SECTION & PROTECTED INTERSECTION DESIGN REMAINS AT 50% DESIGN STAGE. TYPICAL SECTION & PROTECTED INTERSECTION DESIGN TO BE ADVANCED AFTER PHC & COV DECISION ON ST. PAUL'S HOSPITAL ACCESS CONFIGURATION.

NOTES:

1. ALL SIGNS SHALL CONFORM TO THE CITY OF VANCOUVER SIGN CODE INVENTORY MANUAL-2017
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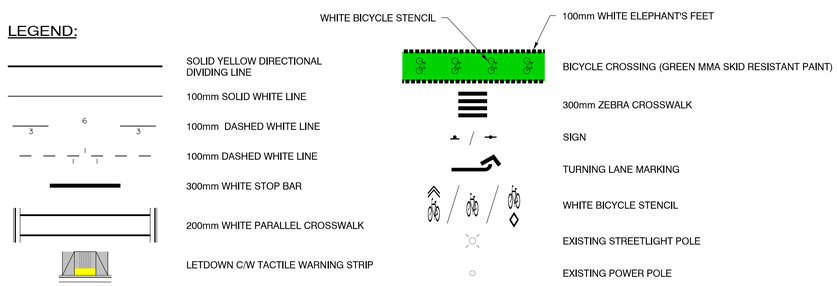
10. BICYCLE WAYFINDING SIGNAGE TO BE CONFIRMED WITH CITY

LEGEND:



PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
3	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
2	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
1	20-04-20	75% DESIGN SUBMISSION	D.A.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 1:24:51 PM

Title: Sign and Pavement Markings
Local Street
Sheet 2 of 2

Drawing Number: AE40-2.2-213
Revision: 3

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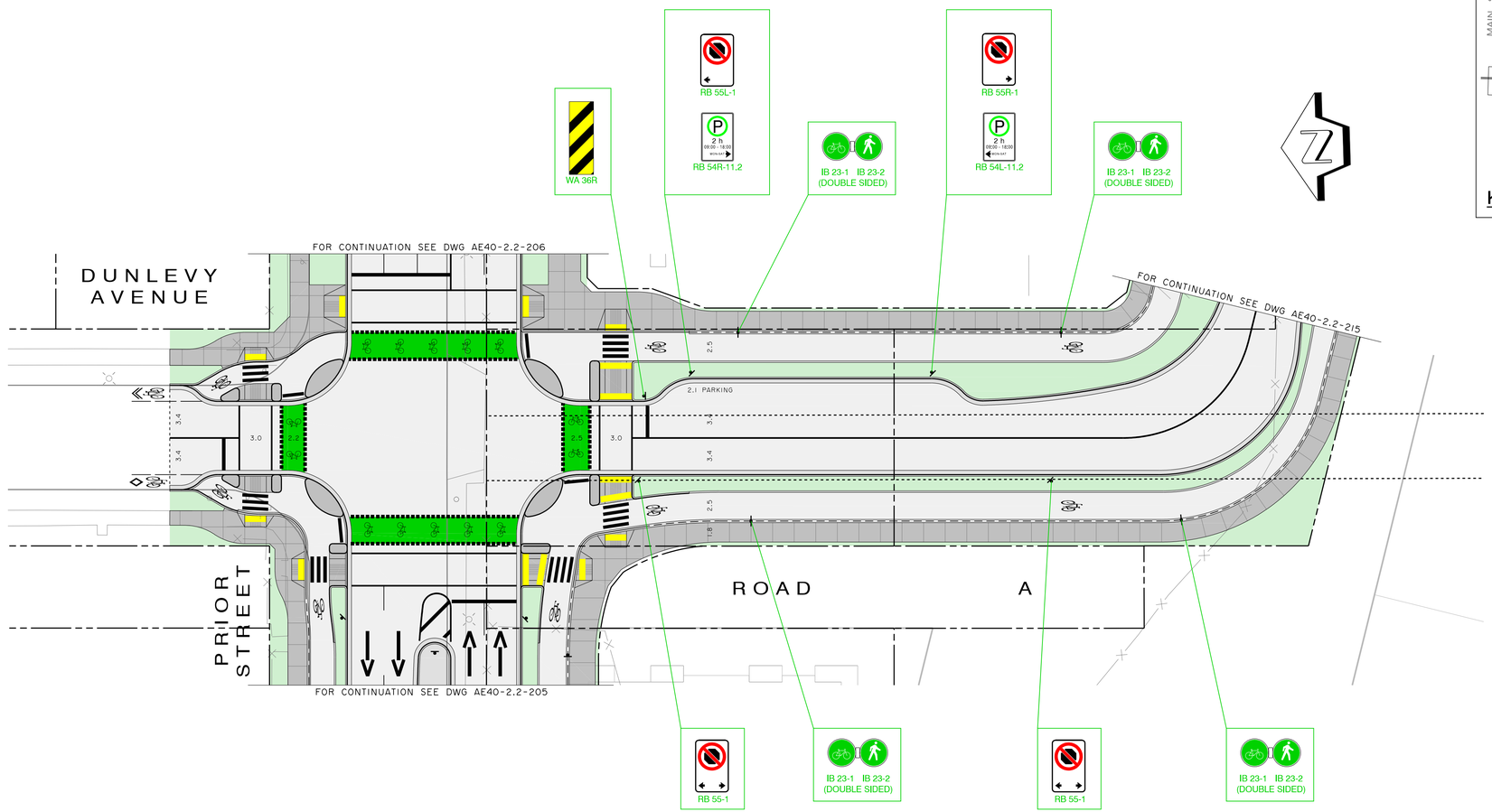

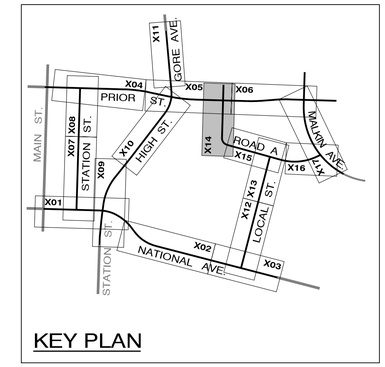

KEY PLAN

NOTES:

1. ALL SIGNS SHALL CONFORM TO THE CITY OF VANCOUVER SIGN CODE INVENTORY MANUAL-2017
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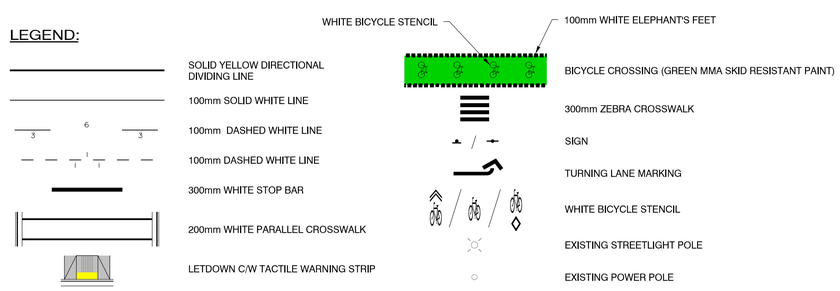
10. BICYCLE WAYFINDING SIGNAGE TO BE CONFIRMED WITH CITY

LEGEND:



PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
3	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
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1	20-04-20	75% DESIGN SUBMISSION	D.A.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: D. ARNOLD
Plot Date: 21/01/18
Plot Time: 1:25:02 PM

Title: Sign and Pavement Markings
Road A
Sheet 1 of 3

Drawing Number: AE40-2.2-214
Revision: 3

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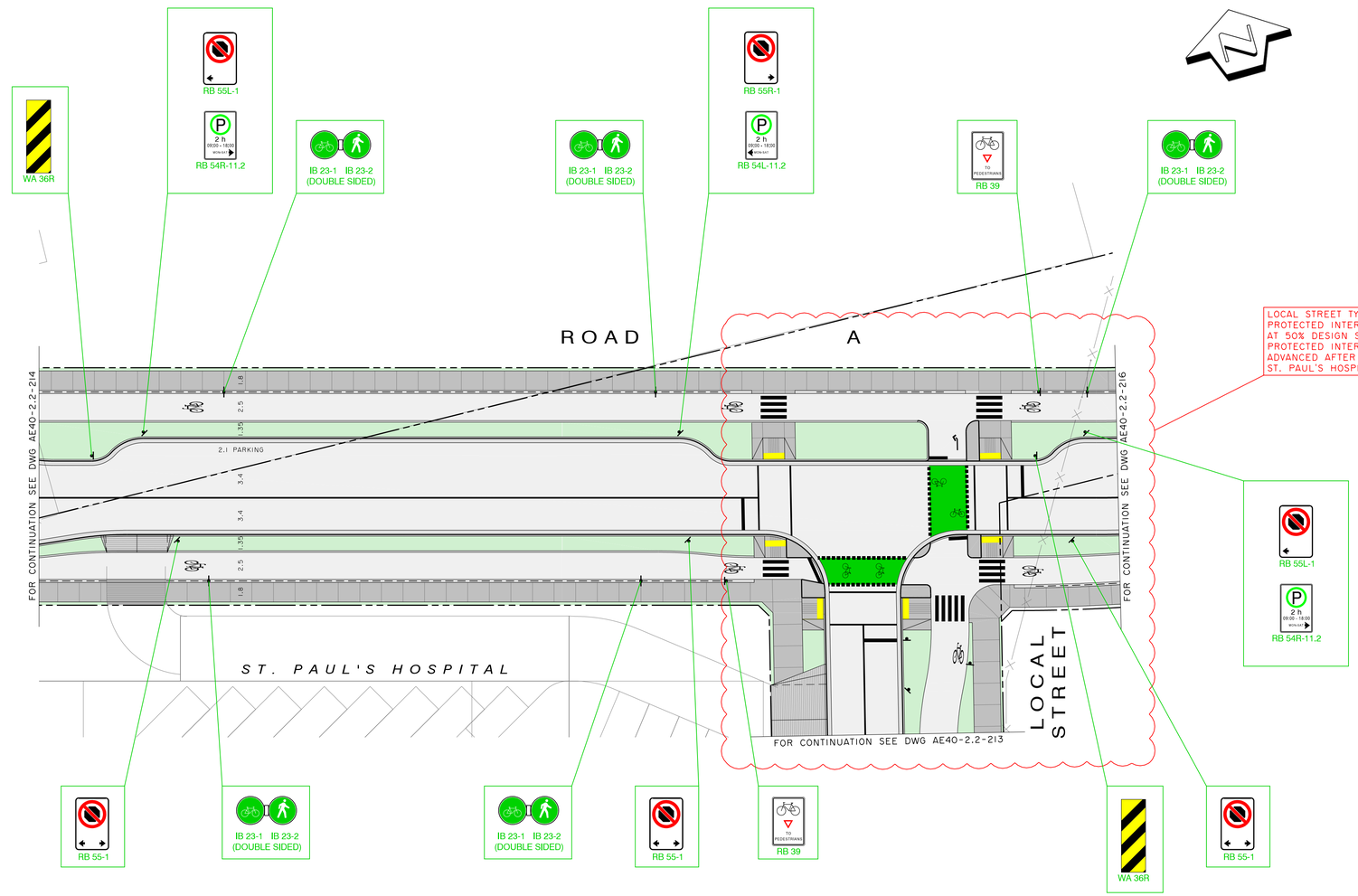

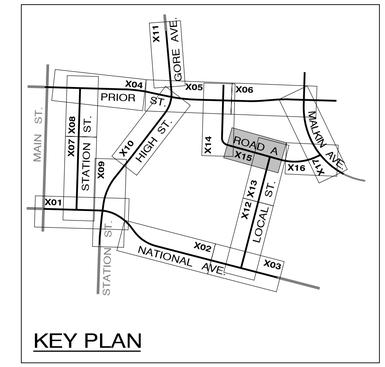

LOCAL STREET TYPICAL SECTION & PROTECTED INTERSECTION DESIGN REMAINS AT 50% DESIGN STAGE. TYPICAL SECTION & PROTECTED INTERSECTION DESIGN TO BE ADVANCED AFTER PHC & COV DECISION ON ST. PAUL'S HOSPITAL ACCESS CONFIGURATION.

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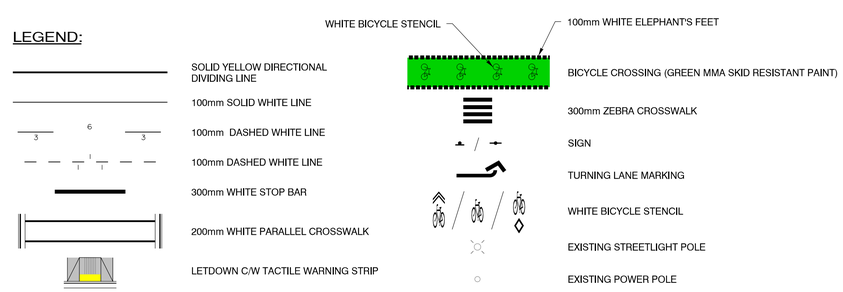
LEGEND:



PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
3	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
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1	20-04-20	75% DESIGN SUBMISSION	D.A.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 1:25:11 PM

Title: Sign and Pavement Markings
Road A
Sheet 2 of 3

Drawing Number: AE40-2.2-215
Revision: 3

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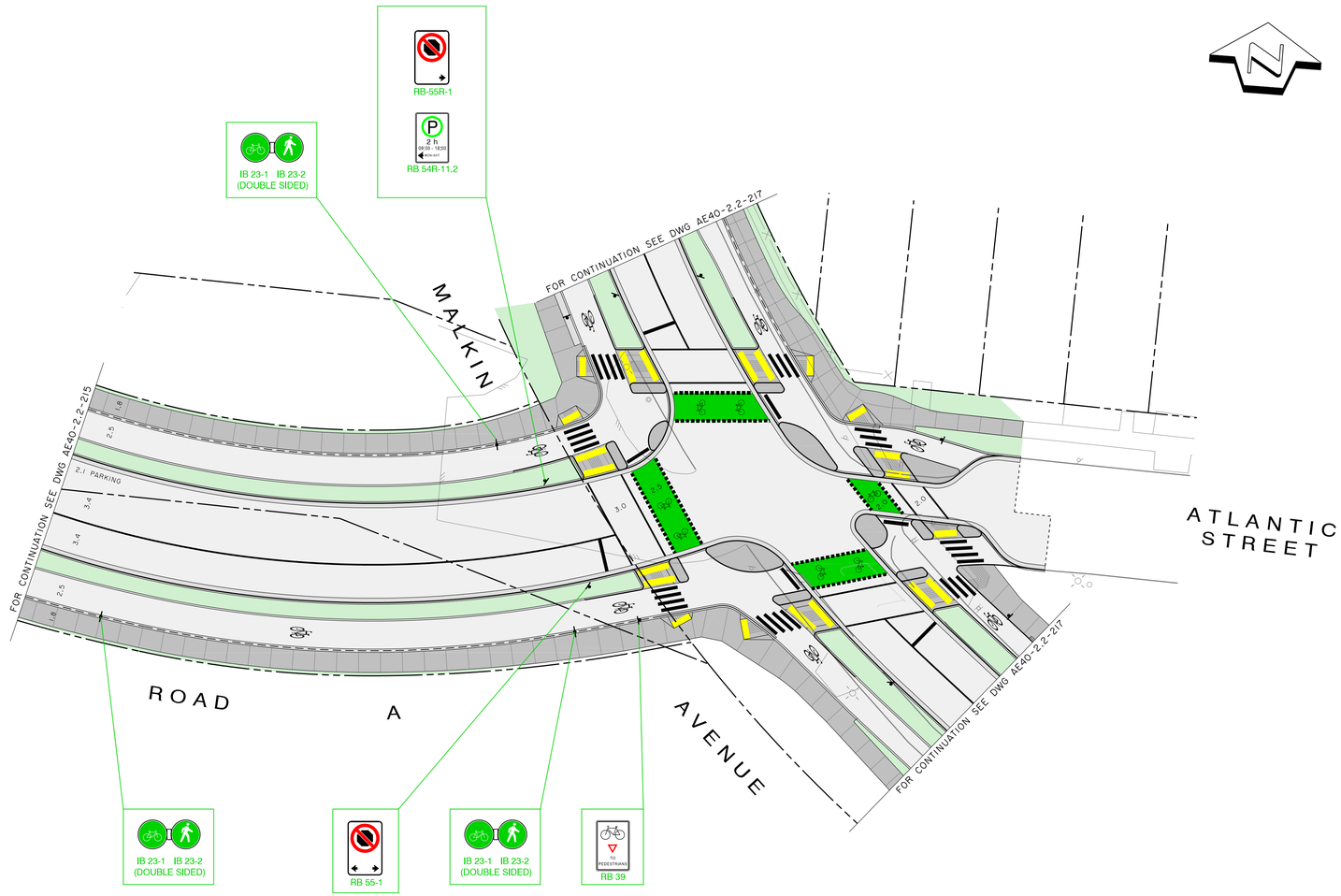

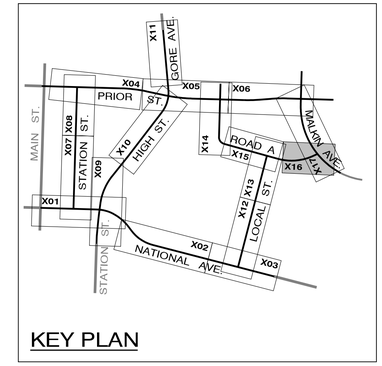

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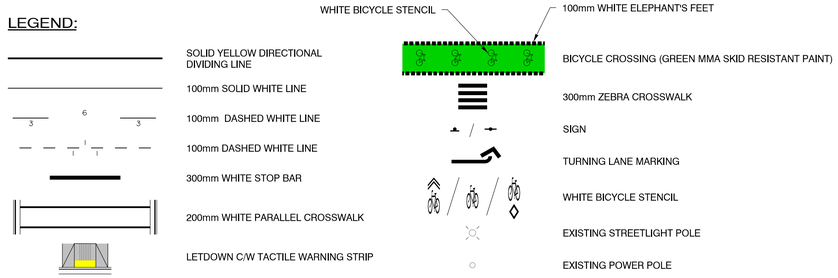

PRELIMINARY

InterCAD
CONSULTING ENGINEERS

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3	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
2	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
1	20-04-20	75% DESIGN SUBMISSION	D.A.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 1:25:20 PM

Title: Sign and Pavement Markings
Road A
Sheet 3 of 3

Drawing Number: AE40-2.2-216
Revision: 3

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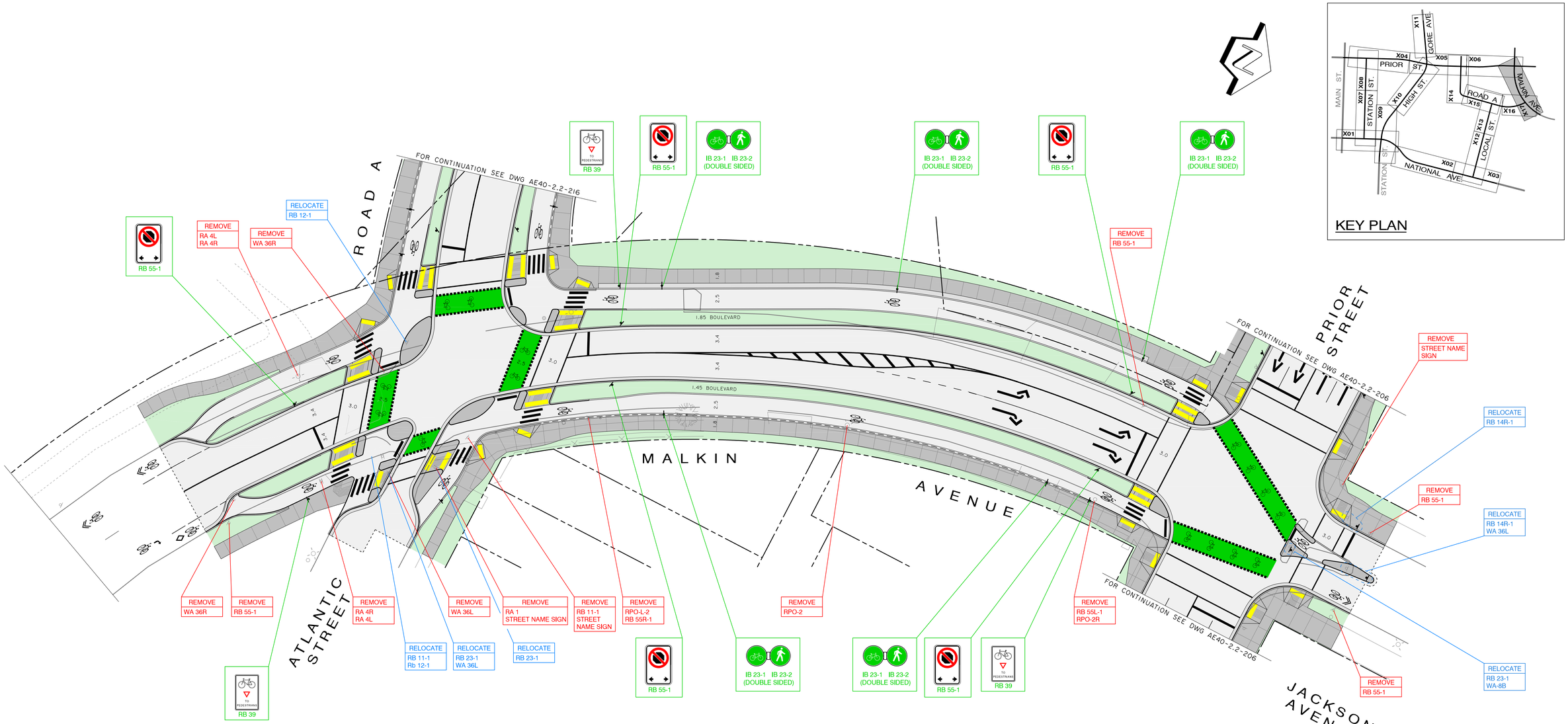

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10. BICYCLE WAYFINDING SIGNAGE TO BE CONFIRMED WITH CITY

LEGEND:

- SOLID YELLOW DIRECTIONAL DIVIDING LINE
- 100mm SOLID WHITE LINE
- 100mm DASHED WHITE LINE
- 100mm DASHED WHITE LINE
- 300mm WHITE STOP BAR
- 200mm WHITE PARALLEL CROSSWALK
- LETDOWN C/W TACTILE WARNING STRIP
- WHITE BICYCLE STENCIL
- 100mm WHITE ELEPHANT'S FEET
- BICYCLE CROSSING (GREEN MMA SKID RESISTANT PAINT)
- 300mm ZEBRA CROSSWALK
- SIGN
- TURNING LANE MARKING
- WHITE BICYCLE STENCIL
- EXISTING STREETLIGHT POLE
- EXISTING POWER POLE

PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
3	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
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Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 5 10 15 — 1:250

Design: D. YOUNG
Drawn: C. LEUNG
Plot Date: 21/01/18
Plot Time: 1:25:32 PM

Title: Sign and Pavement Markings Malkin Avenue

Drawing Number: AE40-2.2-217
Revision: 3

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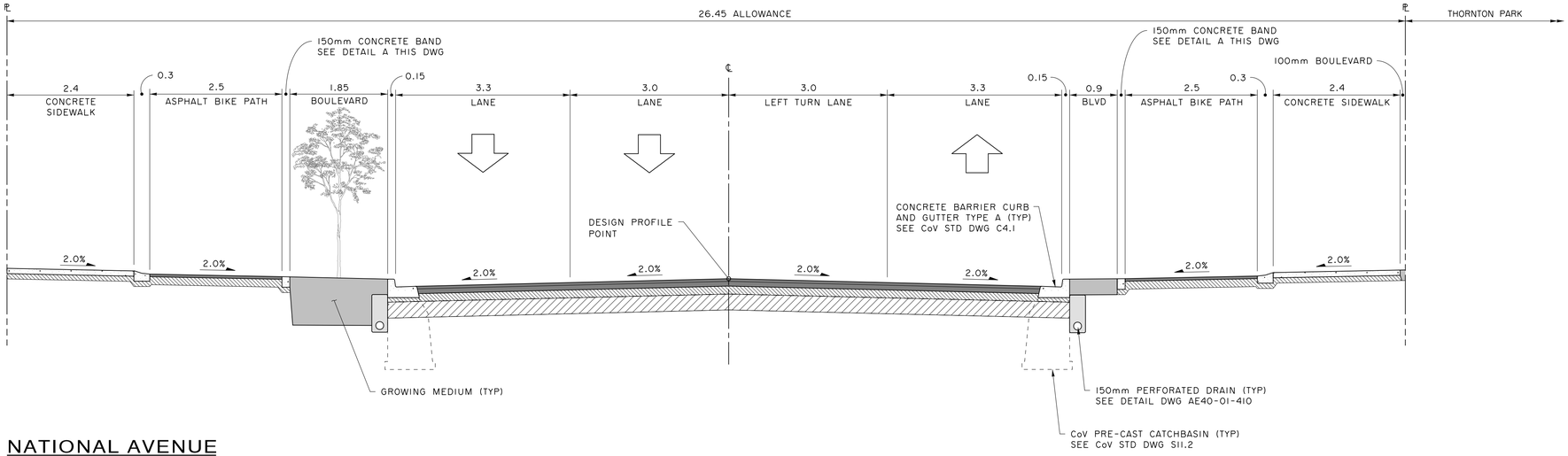
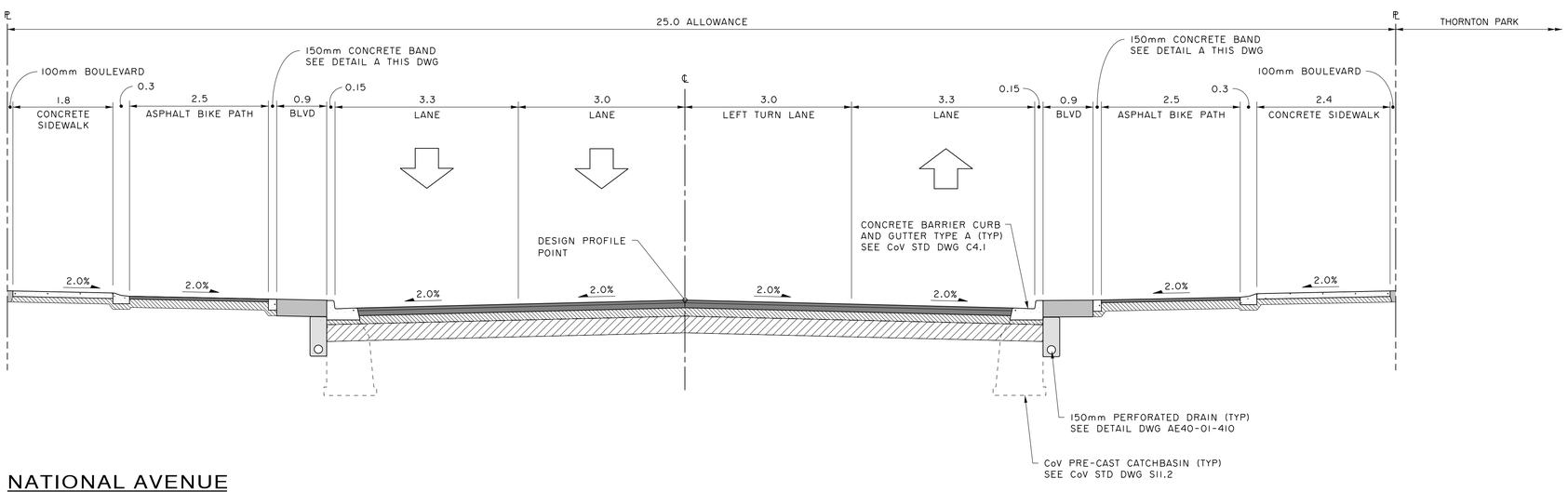


NATIONAL AVENUE

STA 1+068.3 TO 1+078.4

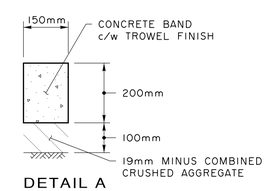


NATIONAL AVENUE

STA 1+025.6 TO 1+044.9

FOR GENERAL AND EARTHWORKS NOTES SEE DWG AE40-2.2-002

FOR PAVEMENT STRUCTURE DETAILS SEE DWG AE40-2.2-451



DETAIL A

1:10

PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
6	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
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4	20-04-20	75% DESIGN SUBMISSION	D.A.	
3	20-02-20	ISSUED FOR FEBRUARY ADDENDUM	D.Y.	
2	19-09-11	REVISED BASED ON CoV 50% DESIGN SUBMISSION COMMENTS	D.A.	
1	19-07-12	50% DESIGN SUBMISSION	D.Y.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 1 2 3
1:50

Design: D. YOUNG
Drawn: R. STAPLES
Plot Date: 21/01/18
Plot Time: 12:31:18 PM

Title: Typical Sections
National Avenue

Drawing Number: AE40-2.2-401
Revision: 6

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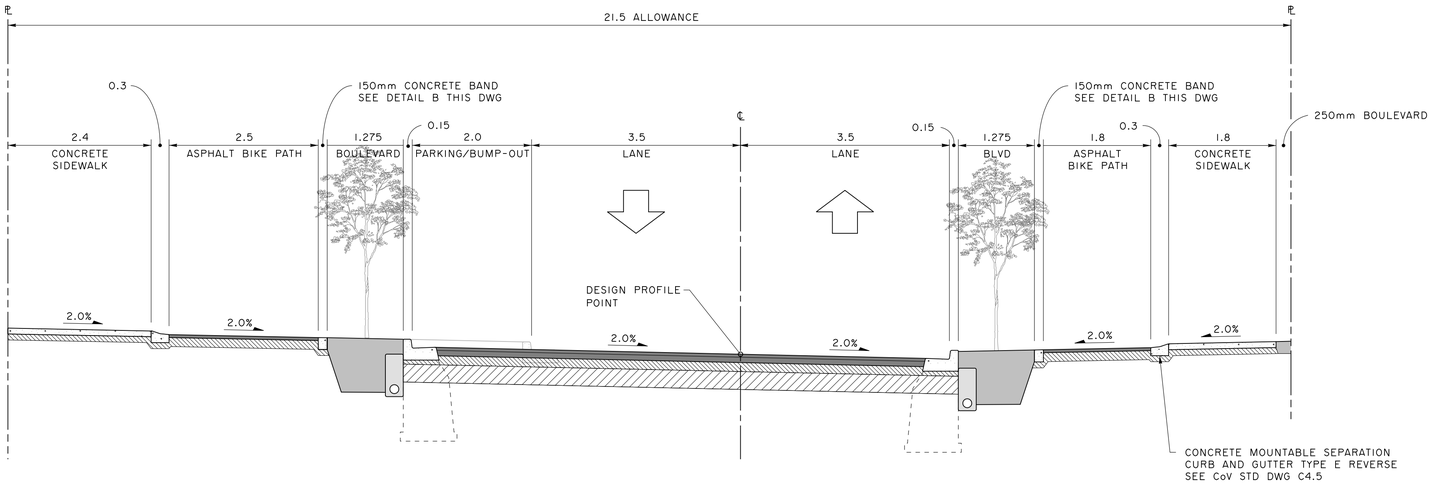
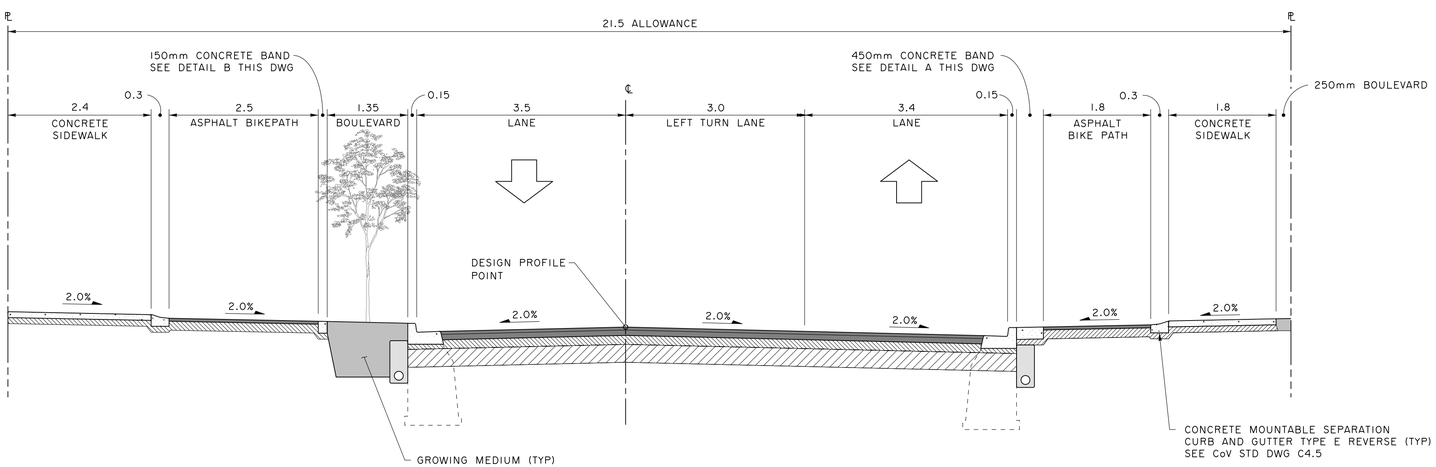


NATIONAL AVENUE

STA 1+225.8 TO 1+364.7

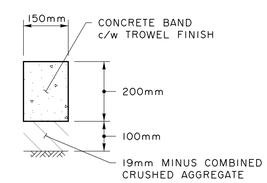
FOR GENERAL AND EARTHWORKS NOTES SEE DWG AE40-2.2-002

FOR PAVEMENT STRUCTURE DETAILS SEE DWG AE40-2.2-451



NATIONAL AVENUE

STA 1+141.2 TO 156.2



DETAIL B

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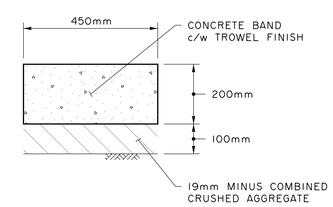

DETAIL A

1:10

PRELIMINARY

InterCAD
CONSULTING ENGINEERS

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Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 1 2 3
1:50

Design: D. YOUNG
Drawn: R. STAPLES
Plot Date: 21/01/18
Plot Time: 12:31:34 PM

Title: Typical Sections
National Avenue
Street

Drawing Number: AE40-2.2-402
Revision: 6

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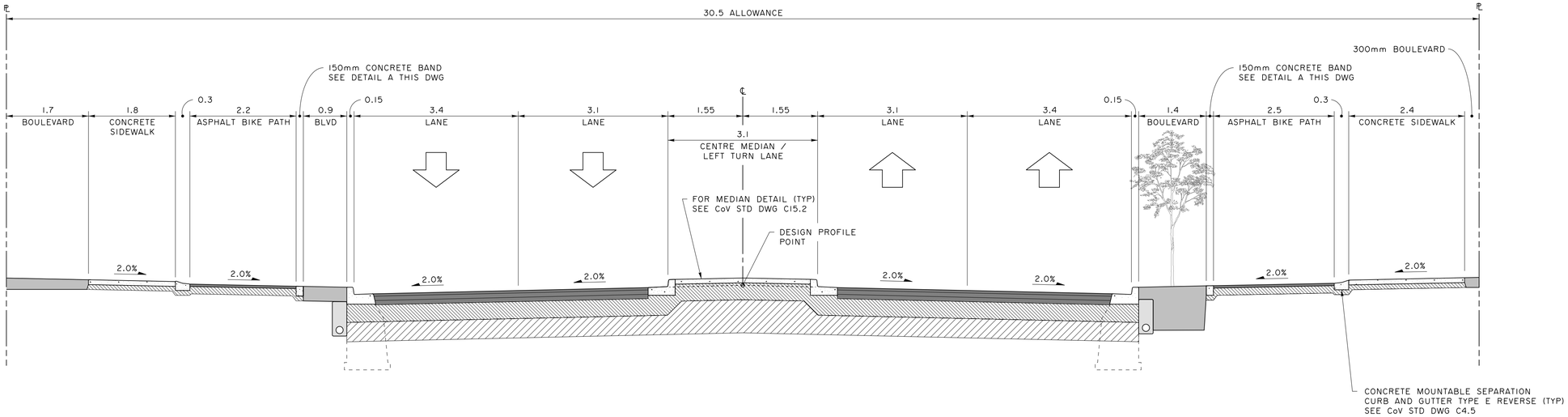
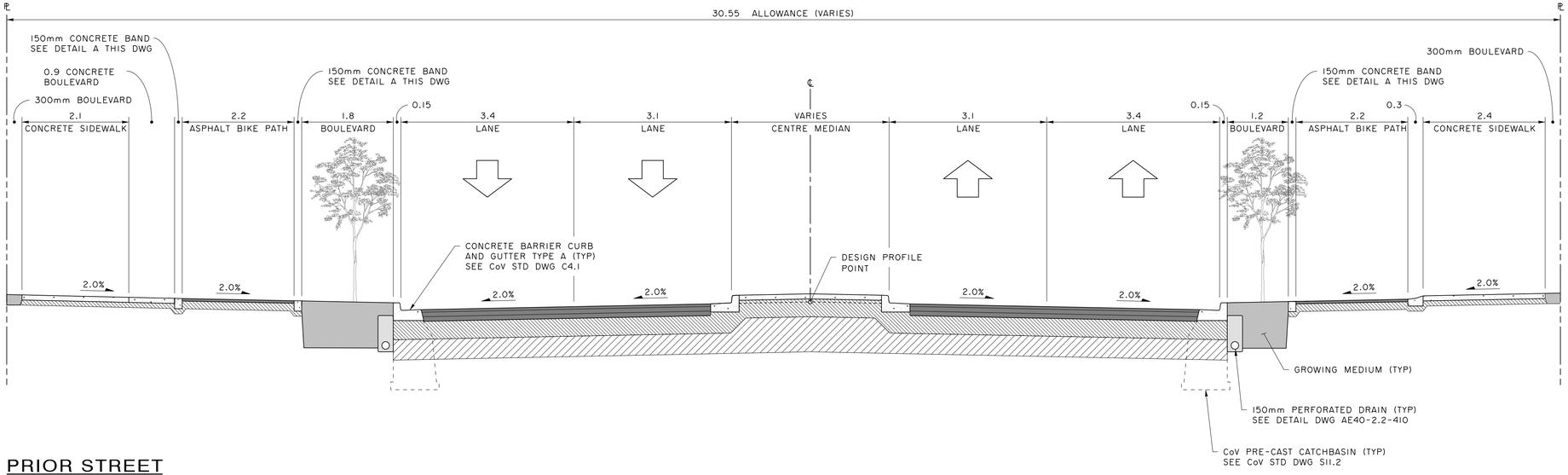


PRIOR STREET

BETWEEN GORE AVENUE AND DUNLEVY AVENUE

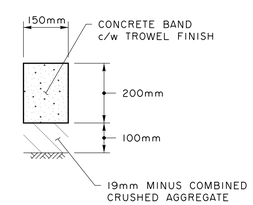


PRIOR STREET

WEST OF GORE AVENUE

FOR GENERAL AND EARTHWORKS NOTES SEE DWG AE40-2.2-002

FOR PAVEMENT STRUCTURE DETAILS SEE DWG AE40-2.2-451



DETAIL A

1:10

PRELIMINARY

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Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 1 2 3 — 1:50

Design: D. YOUNG
Drawn: D. ARNOLD
Plot Date: 21/01/18
Plot Time: 12:31:43 PM

Title: Typical Sections
Prior Street
Sheet 1 of 2

Drawing Number: AE40-2.2-403
Revision: 6

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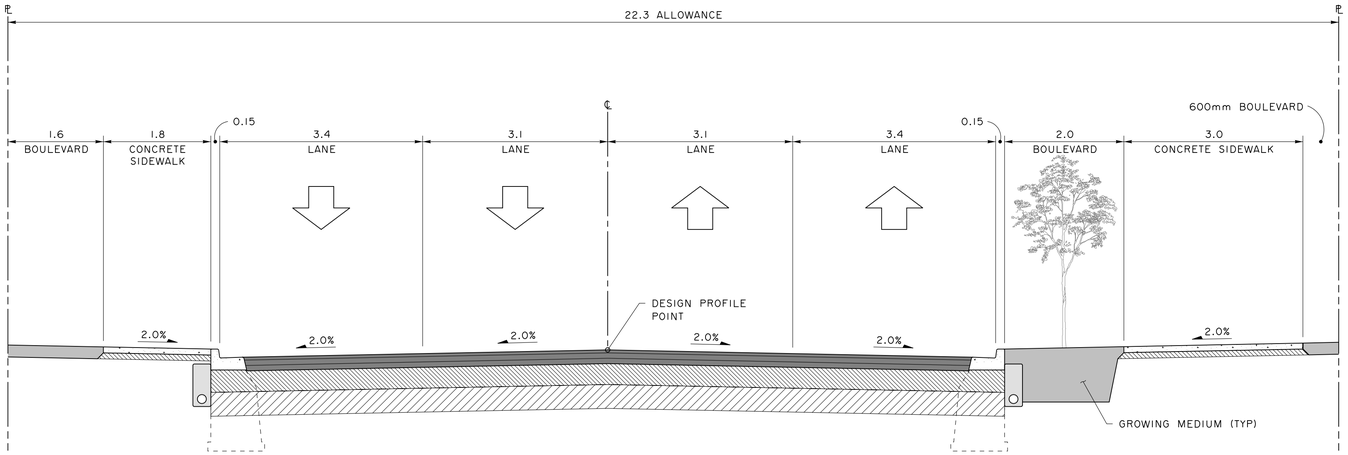
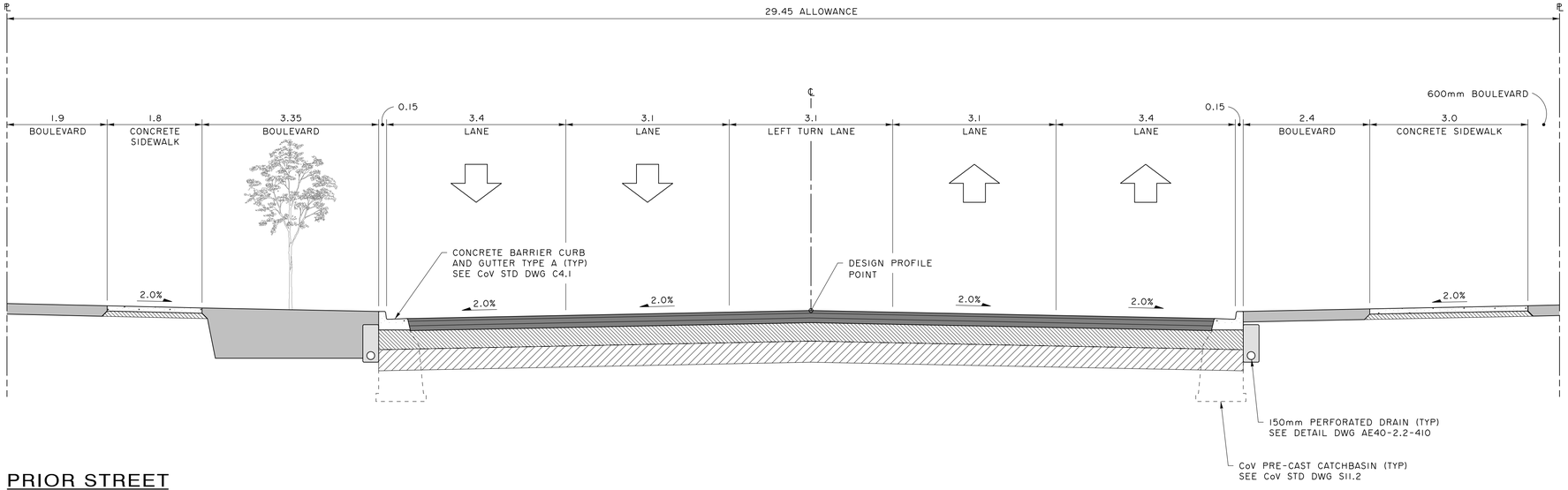


PRIOR STREET

WEST OF JACKSON AVENUE



PRIOR STREET

EAST OF DUNLEVY AVENUE

FOR GENERAL AND EARTHWORKS NOTES SEE DWG AE40-2.2-002

FOR PAVEMENT STRUCTURE DETAILS SEE DWG AE40-2.2-451

PRELIMINARY

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NO.	DATE	REVISIONS	BY	APPROVED
6	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
5	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
4	20-04-20	75% DESIGN SUBMISSION	D.A.	
3	20-02-20	ISSUED FOR FEBRUARY ADDENDUM	D.Y.	
2	19-09-11	REVISED BASED ON CoV 50% DESIGN SUBMISSION COMMENTS	D.A.	
1	19-07-12	50% DESIGN SUBMISSION	D.Y.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 1 2 3 — 1:50

Design: D. YOUNG
Drawn: D. ARNOLD
Plot Date: 21/01/18
Plot Time: 12:31:54 PM

Title: Typical Sections
Prior Street
Sheet 2 of 2

Drawing Number: AE40-2.2-404
Revision: 6

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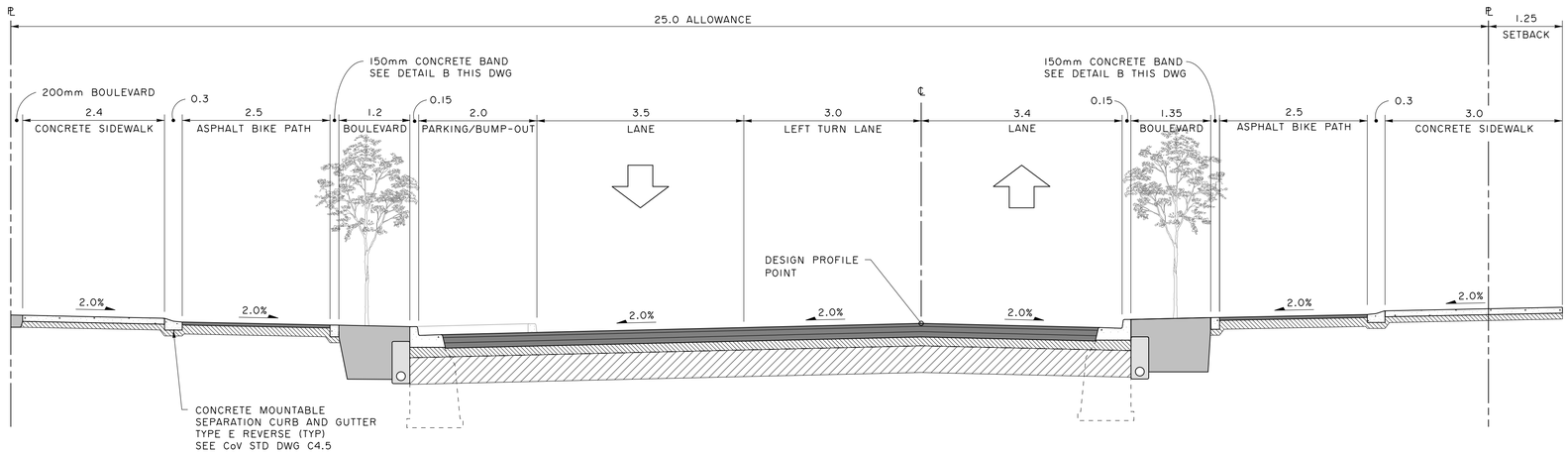
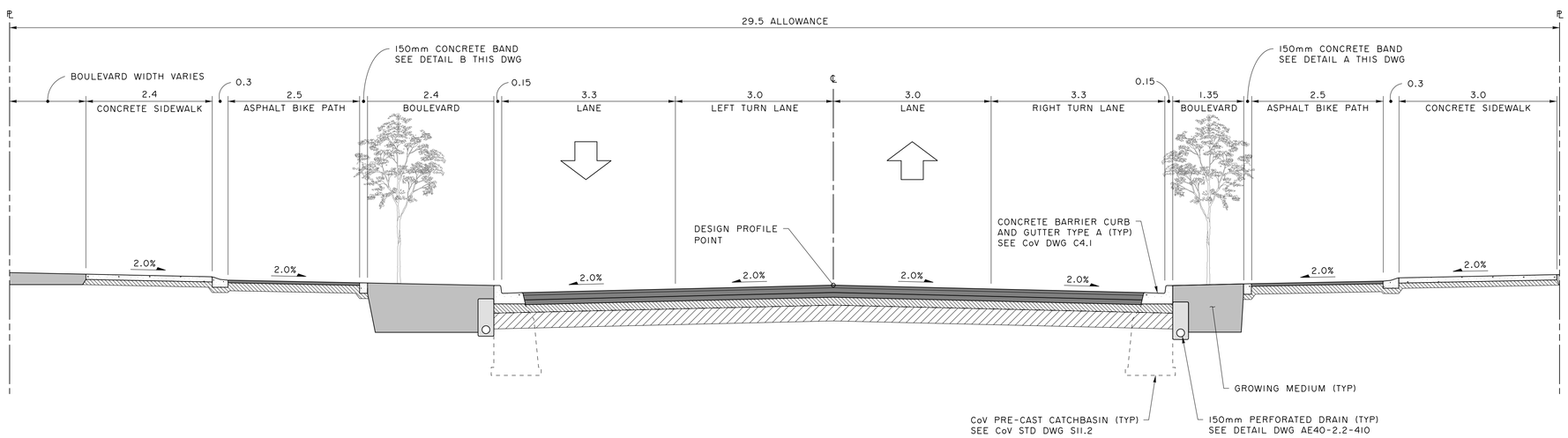


HIGH STREET

ST. PAUL'S BOULEVARD TO PRIOR STREET

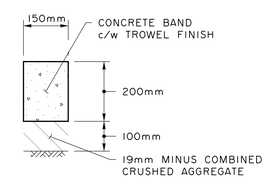
FOR GENERAL AND EARTHWORKS NOTES SEE DWG AE40-2.2-002

FOR PAVEMENT STRUCTURE DETAILS SEE DWG AE40-2.2-451



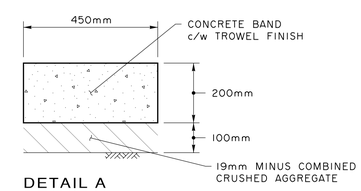
HIGH STREET

NATIONAL AVENUE TO ST. PAUL'S BOULEVARD



DETAIL B

1:10



DETAIL A

1:10

PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
6	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
5	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
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3	20-02-20	ISSUED FOR FEBRUARY ADDENDUM	D.Y.	
2	19-09-11	REVISED BASED ON CoV 50% DESIGN SUBMISSION COMMENTS	D.A.	
1	19-07-12	50% DESIGN SUBMISSION	D.Y.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 1 2 3 — 1:50

Design: D. YOUNG
Drawn: R. STAPLES
Plot Date: 21/01/18
Plot Time: 12:32:05 PM

Title: Typical Sections
High Street

Drawing Number: AE40-2.2-405
Revision: 6

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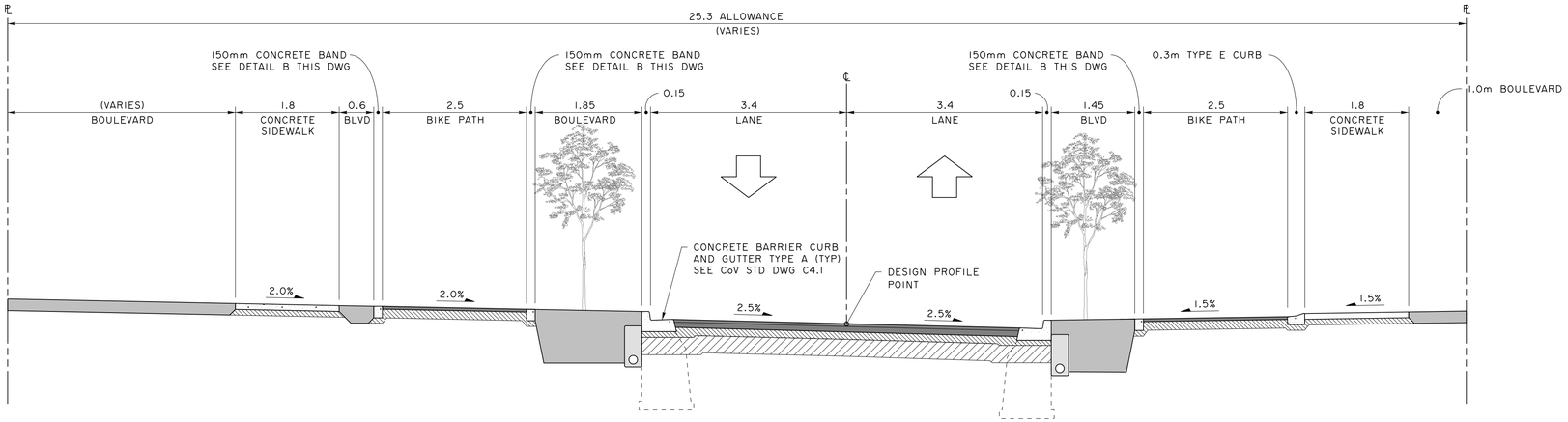
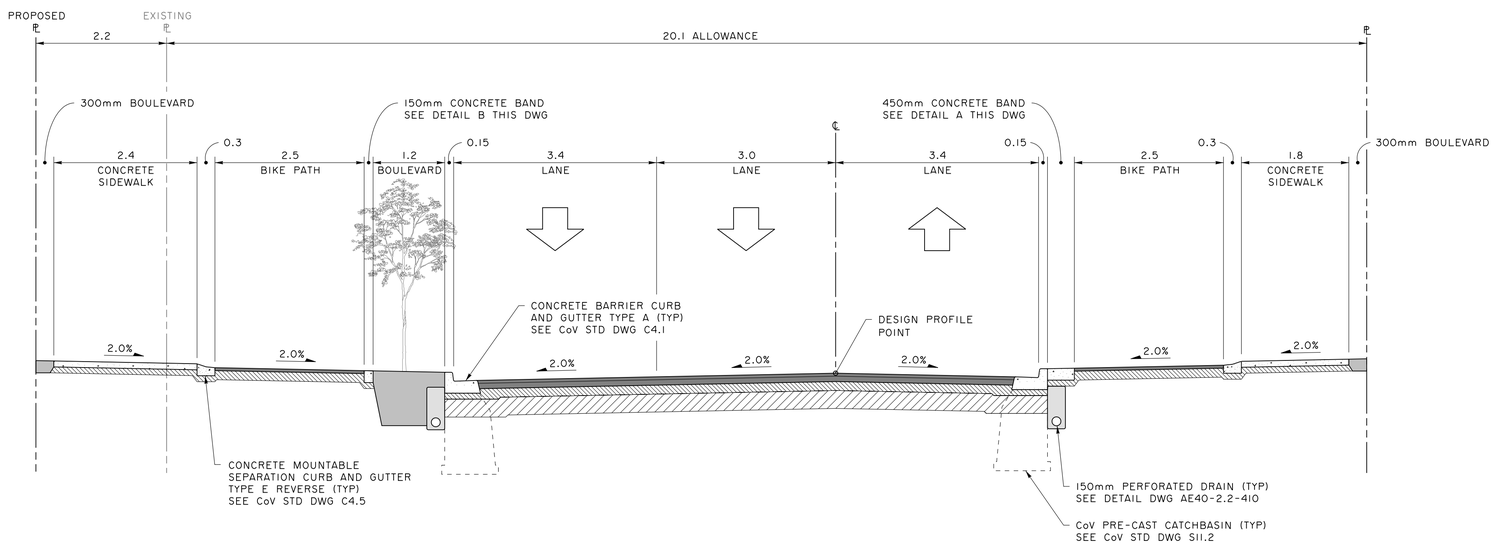


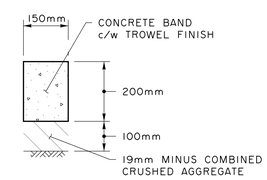
MALKIN AVENUE

FOR GENERAL AND EARTHWORKS NOTES SEE DWG AE40-2.2-002

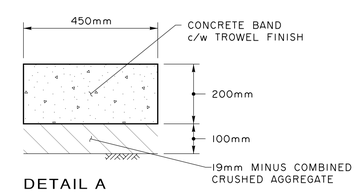
FOR PAVEMENT STRUCTURE DETAILS SEE DWG AE40-2.2-451



GORE AVENUE



DETAIL B
1:10



DETAIL A
1:10

PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
6	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
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3	20-02-20	ISSUED FOR FEBRUARY ADDENDUM	D.Y.	
2	19-09-11	REVISED BASED ON CoV 50% DESIGN SUBMISSION COMMENTS	D.A.	
1	19-07-12	50% DESIGN SUBMISSION	D.Y.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 1 2 3
1:50

Design: D. YOUNG
Drawn: D. ARNOLD
Plot Date: 21/01/18
Plot Time: 12:32:13 PM

Title: Typical Sections
Gore Avenue & Malkin Avenue

Drawing Number: AE40-2.2-406
Revision: 6

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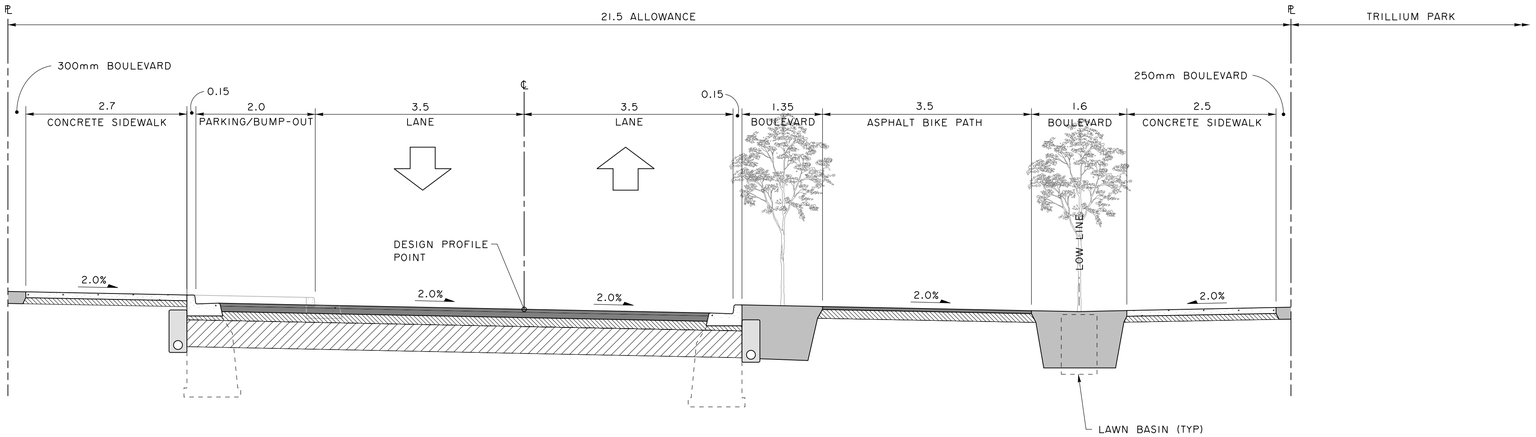
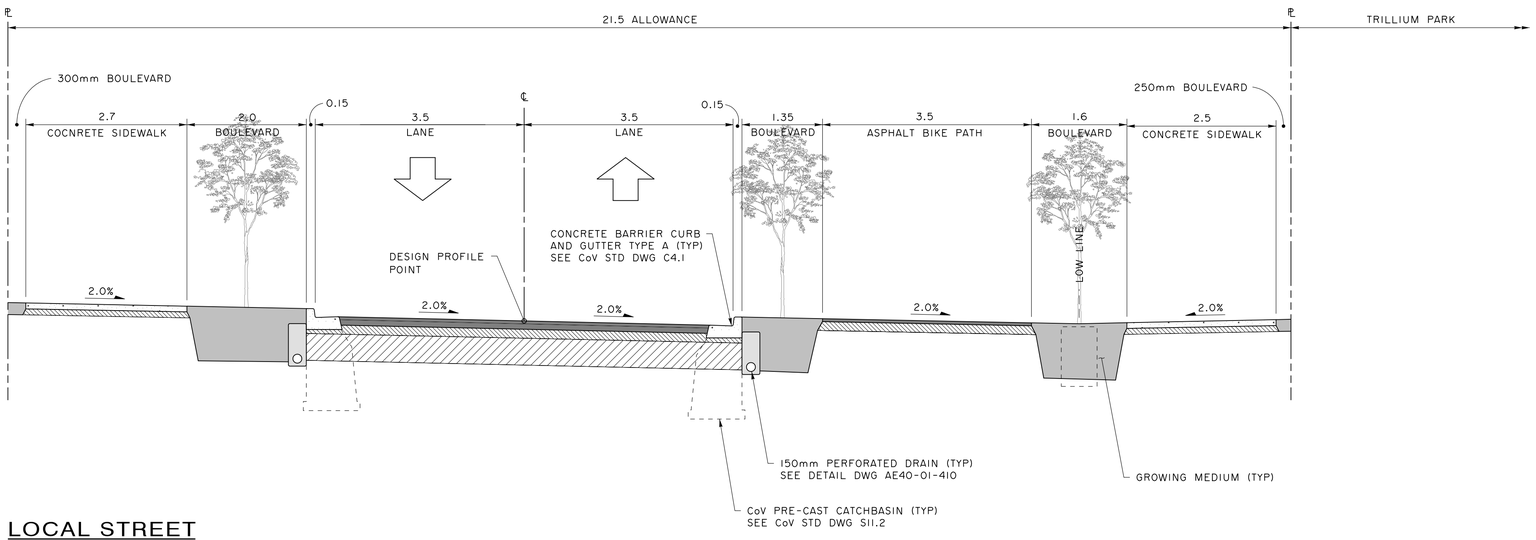


LOCAL STREET

WITH PARKING



LOCAL STREET

WITH TREE BULGES

FOR GENERAL AND EARTHWORKS NOTES SEE DWG AE40-2.2-002

FOR PAVEMENT STRUCTURE DETAILS SEE DWG AE40-2.2-451

PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
6	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
5	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
4	20-04-20	75% DESIGN SUBMISSION	D.A.	
3	20-02-20	ISSUED FOR FEBRUARY ADDENDUM	D.Y.	
2	19-09-11	REVISED BASED ON CoV 50% DESIGN SUBMISSION COMMENTS	D.A.	
1	19-07-12	50% DESIGN SUBMISSION	D.Y.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 1 2 3
1:50

Design: D. YOUNG
Drawn: R. STAPLES
Plot Date: 21/01/18
Plot Time: 12:32:23 PM

Title: Typical Sections
Local Street

Drawing Number: AE40-2.2-407
Revision: 6

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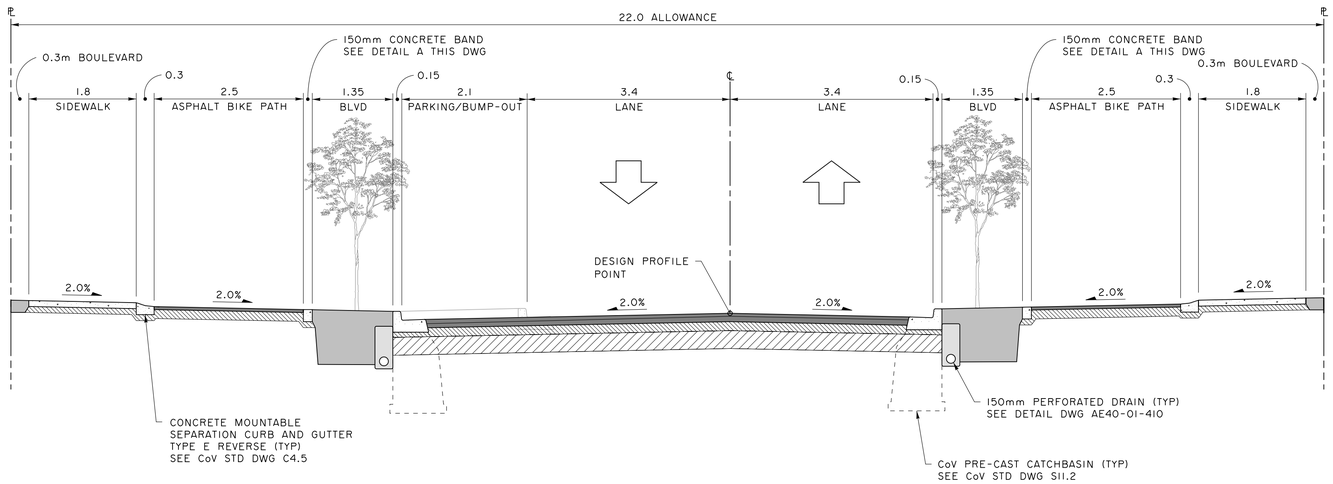
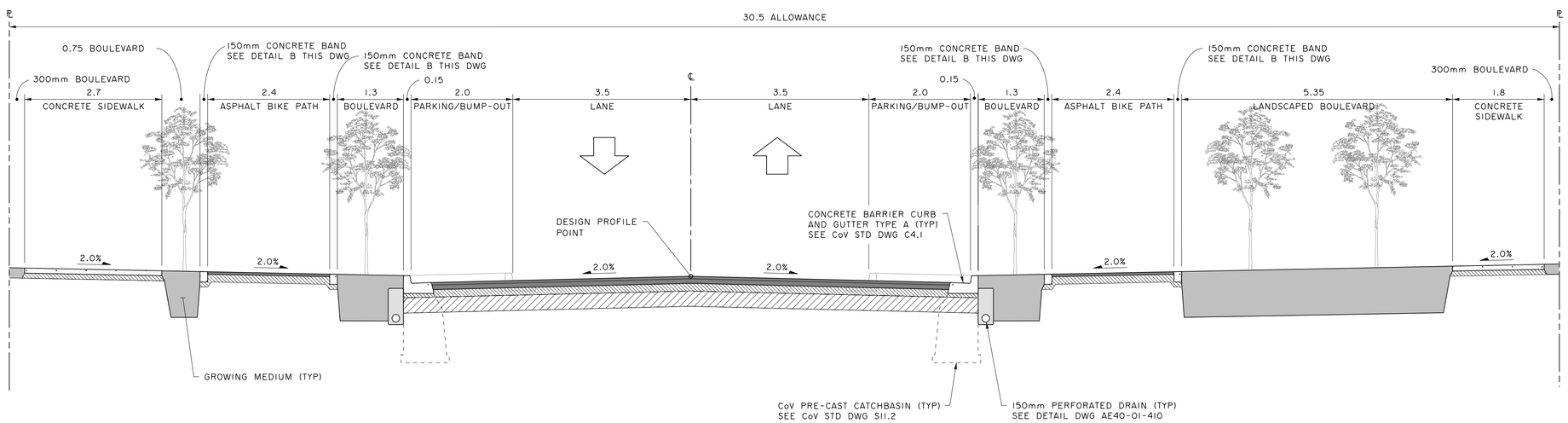


ROAD A

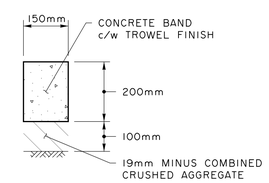


STATION STREET

NATIONAL AVENUE TO PRIOR STREET

FOR GENERAL AND EARTHWORKS NOTES SEE DWG AE40-2.2-002

FOR PAVEMENT STRUCTURE DETAILS SEE DWG AE40-2.2-451



DETAIL A
1:10

PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
6	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
5	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
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3	20-02-20	ISSUED FOR FEBRUARY ADDENDUM	D.Y.	
2	19-09-11	REVISED BASED ON CoV 50% DESIGN SUBMISSION COMMENTS	D.A.	
1	19-07-12	50% DESIGN SUBMISSION	D.Y.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: 0 1 2 3 — 1:50

Design: D. YOUNG
Drawn: D. ARNOLD
Plot Date: 21/01/18
Plot Time: 12:32:31 PM

Title: Typical Sections
Station Street & Road A

Drawing Number: AE40-2.2-408
Revision: 6

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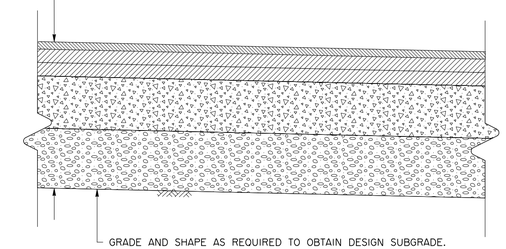
50 YEAR NORTH EAST FALSE CREEK (NEFC) PAVEMENT STRUCTURE

PAVEMENT STRUCTURE
- 50mm ASPHALT PAVEMENT - 12.5mm NOMINAL SUPERPAVE SURFACE MIX
- 2 x 90mm ASPHALT PAVEMENT - 25mm NOMINAL SUPERPAVE BASE MIX
- 350mm 19mm MINUS COMBINED CRUSHED AGGREGATE (CoV ITEM #9)
- 400mm 75mm CRUSHED GRANULAR SUB-BASE (CoV ITEM #13)

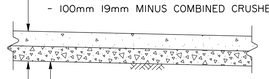


GRADE AND SHAPE AS REQUIRED TO OBTAIN DESIGN SUBGRADE. COMPACT TO MIN 95% MODIFIED PROCTOR DENSITY TO A MIN DEPTH OF 0.7m. DISTURBED SOIL AT ELEVATIONS LOWER THAN 0.7m BELOW DESIGN SUBGRADE TO BE COMPACTED TO MIN 90% MODIFIED PROCTOR DENSITY. GEOTECHNICAL CONSULTANT TO REVIEW AND APPROVE SUBGRADE PRIOR TO PLACING GRAVELS.

ROADWAY PAVEMENT STRUCTURE

PRIOR STREET

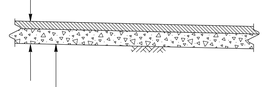
PAVEMENT STRUCTURE
- 100mm CONCRETE WITH SAWCUT JOINTS (SEE CoV STD DWGS C1.1, C2.1 AND C2.2)
- 100mm 19mm MINUS COMBINED CRUSHED AGGREGATE (CoV ITEM #9)



GRADE AND SHAPE AS REQUIRED TO OBTAIN DESIGN SUBGRADE. APPROVED NATIVE MATERIAL OR 300mm OF 75mm MINUS CRUSHED GRANULAR SUBBASE COMPACTED TO MIN 95% MODIFIED PROCTOR DENSITY. GEOTECHNICAL CONSULTANT TO REVIEW AND APPROVE SUBGRADE PRIOR TO PLACING GRAVELS.

SIDEWALK PAVEMENT STRUCTURE

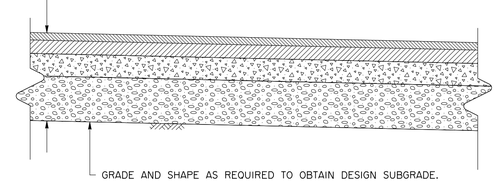
PAVEMENT STRUCTURE
- 50mm ASPHALT PAVEMENT - 9.5mm NOMINAL SUPERPAVE SURFACE MIX
- 150mm 19mm MINUS COMBINED CRUSHED AGGREGATE (CoV ITEM #9)



GRADE AND SHAPE AS REQUIRED TO OBTAIN DESIGN SUBGRADE. APPROVED NATIVE MATERIAL OR 300mm OF 75mm MINUS CRUSHED GRANULAR SUBBASE COMPACTED TO MIN 95% MODIFIED PROCTOR DENSITY. GEOTECHNICAL CONSULTANT TO REVIEW AND APPROVE SUBGRADE PRIOR TO PLACING GRAVELS.

BIKE PATH PAVEMENT STRUCTURE

PAVEMENT STRUCTURE
- 50mm ASPHALT PAVEMENT - 12.5mm NOMINAL SUPERPAVE SURFACE MIX
- 90mm ASPHALT PAVEMENT - 25mm NOMINAL SUPERPAVE BASE MIX
- 150mm 19mm MINUS COMBINED CRUSHED AGGREGATE (CoV ITEM #9)
- 300mm 75mm CRUSHED GRANULAR SUB-BASE (CoV ITEM #13)

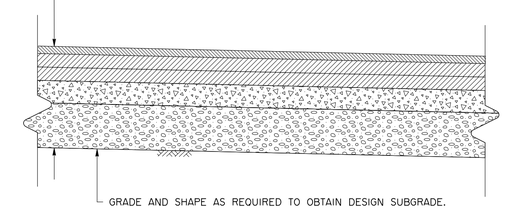


GRADE AND SHAPE AS REQUIRED TO OBTAIN DESIGN SUBGRADE. COMPACT TO MIN 95% MODIFIED PROCTOR DENSITY TO A MIN DEPTH OF 0.7m. DISTURBED SOIL AT ELEVATIONS LOWER THAN 0.7m BELOW DESIGN SUBGRADE TO BE COMPACTED TO MIN 90% MODIFIED PROCTOR DENSITY. GEOTECHNICAL CONSULTANT TO REVIEW AND APPROVE SUBGRADE PRIOR TO PLACING GRAVELS.

ROADWAY PAVEMENT STRUCTURE

NATIONAL AVENUE
STATION STREET
GORE AVENUE
LOCAL STREET
ROAD A
MALKIN AVENUE

PAVEMENT STRUCTURE
- 50mm ASPHALT PAVEMENT - 12.5mm NOMINAL SUPERPAVE SURFACE MIX
- 2 x 90mm ASPHALT PAVEMENT - 25mm NOMINAL SUPERPAVE BASE MIX
- 150mm 19mm MINUS COMBINED CRUSHED AGGREGATE (CoV ITEM #9)
- 300mm 75mm CRUSHED GRANULAR SUB-BASE (CoV ITEM #13)



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ROADWAY PAVEMENT STRUCTURE

HIGH STREET

PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
5	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
4	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
3	20-04-20	75% DESIGN SUBMISSION	D.A.	
2	20-02-20	ISSUED FOR FEBRUARY ADDENDUM	D.Y.	
1	19-07-12	50% DESIGN SUBMISSION	D.Y.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: -

Design: D. YOUNG
Drawn: R. STAPLES
Plot Date: 21/01/18
Plot Time: 12:32:53 PM

Title: Roadwork Details
Pavement Structures

Drawing Number: AE40-2.2-451
Revision: 5

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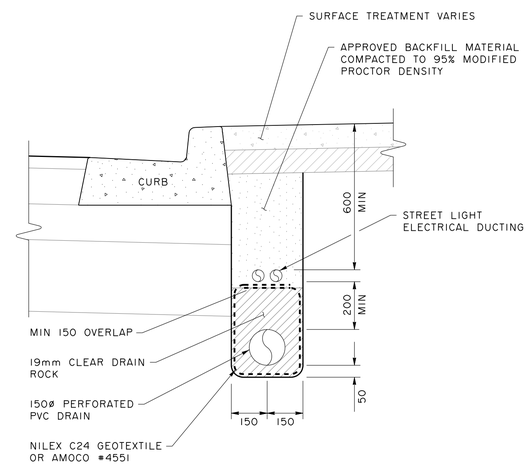
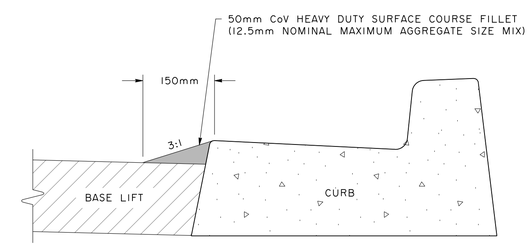


PERFORATED DRAIN ADJACENT TO CURB

NTS



ASPHALT FILLET DETAIL

NTS

PRELIMINARY

InterCAD
CONSULTING ENGINEERS

NO.	DATE	REVISIONS	BY	APPROVED
5	21-01-29	ISSUED FOR FINAL PROJECT AGREEMENT	D.A.	
4	20-06-15	ISSUED FOR FINAL DRAFT PROJECT AGREEMENT	D.A.	
3	20-04-20	75% DESIGN SUBMISSION	D.A.	
2	20-02-20	ISSUED FOR FEBRUARY ADDENDUM	D.Y.	
1	19-07-12	50% DESIGN SUBMISSION	D.Y.	

Client: IBI Group / Providence Health Care

Project: New St. Paul's Hospital
Preliminary Roadway Drawings

Scale: -

Design: D. YOUNG
Drawn: R. STAPLES
Plot Date: 21/01/18
Plot Time: 12:33:08 PM

Title: Roadwork Details
Miscellaneous Details

Drawing Number: AE40-2.2-452
Revision: 5

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