

KEY PLAN
N.T.S.

CURVE NO. 3

Δt	= 52° 22' 23.396"
R	= 27.5
T	= 13.524
L	= 25.137
E	= 3.145

CURVE NO. 4

Δt	= 37° 15' 42.387"
R	= 40.0
T	= 13.485
L	= 26.014
E	= 2.212

CONTROL ALIGNMENT (FIRST)

DESCRIPTION	STATION	COORDINATES		
		NORTHING	EASTING	
309	POB	4+000.000	5019386.326	447816.880
109	POE	4+091.683	5019464.579	447769.107

CONTROL ALIGNMENT (SECOND)

DESCRIPTION	STATION	COORDINATES		
		NORTHING	EASTING	
307	POB	4+000.000	5019461.300	447936.359
400	PI	2+090.198	5019537.747	447888.491
401	BC	2+157.253	5019594.787	447853.235
402	PI	2+170.777	5019606.291	447846.125
403	EC	2+182.390	5019618.946	447850.895
404	BC	2+245.428	5019677.932	447873.130
405	PI	2+258.913	5019690.550	447877.887
406	EC	2+271.442	5019697.714	447889.312
407	POE	2+405.244	5019768.786	448002.678

CONTROL ALIGNMENT (LEVY)

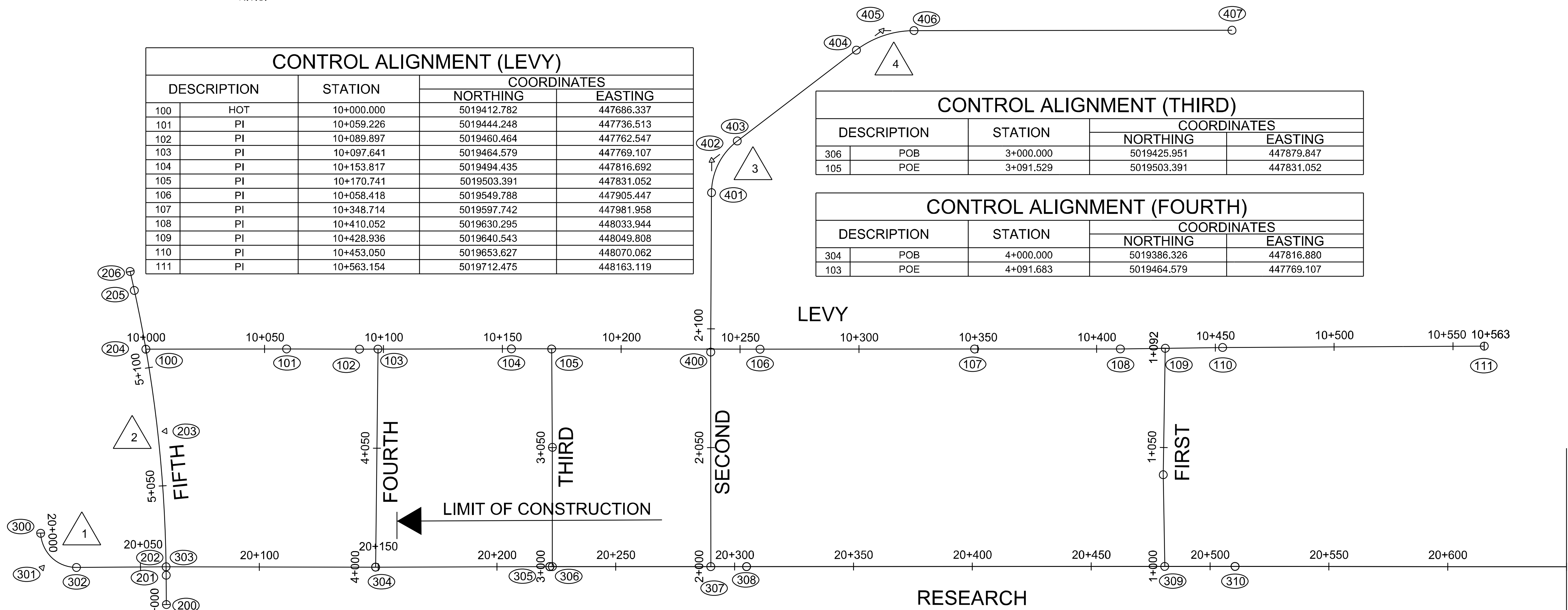
DESCRIPTION	STATION	COORDINATES		
		NORTHING	EASTING	
100	HOT	10+000.000	5019412.782	447686.337
101	PI	10+059.226	5019444.248	447736.513
102	PI	10+089.897	5019460.464	447762.547
103	PI	10+097.641	5019464.579	447769.107
104	PI	10+153.817	5019494.435	447816.692
105	PI	10+170.741	5019503.391	447831.052
106	PI	10+058.418	5019549.788	447905.447
107	PI	10+348.714	5019597.742	447981.958
108	PI	10+410.052	5019630.295	448033.944
109	PI	10+428.936	5019640.543	448049.808
110	PI	10+453.050	5019653.627	448070.062
111	PI	10+563.154	5019712.475	448163.119

CONTROL ALIGNMENT (THIRD)

DESCRIPTION	STATION	COORDINATES		
		NORTHING	EASTING	
306	POB	3+000.000	5019425.951	447879.847
105	POE	3+091.529	5019503.391	447831.052

CONTROL ALIGNMENT (FOURTH)

DESCRIPTION	STATION	COORDINATES		
		NORTHING	EASTING	
304	POB	4+000.000	5019386.326	447816.880
103	POE	4+091.683	5019464.579	447769.107



CURVE NO. 1

Δt	= 87° 59' 18.33"
R	= 15.0
T	= 14.482
L	= 23.035
E	= 5.850

CURVE NO. 2

Δt	= 11° 55' 29.66"
R	= 580.000
T	= 60.576
L	= 120.715
E	= 3.155

CONTROL ALIGNMENT (RESEARCH)

DESCRIPTION	STATION	COORDINATES		
		NORTHING	EASTING	
300	BC	20+000.000	5019323.660	447689.878
301	PI	20+014.548	5019311.717	447698.070
302	EC	20+023.101	5019319.485	447710.293
303	PI	20+060.786	5019339.699	447742.098
304	PI	20+148.914	5019386.326	447816.880
305	PI	20+222.240	5019425.383	447878.939
306	PI	20+223.311	5019425.951	447879.847
307	PI	20+289.968	5019461.300	447936.359
308	PI	20+305.047	5019469.296	447949.144
309	PI	20+480.972	5019562.641	448098.262
310	PI	20+510.575	5019578.348	448123.355

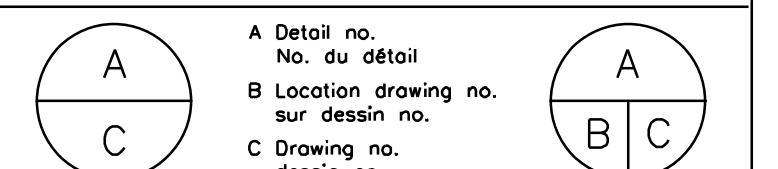
CONTROL ALIGNMENT (FIFTH)

DESCRIPTION	STATION	COORDINATES		
		NORTHING	EASTING	
200	POB	5+000.000	5019326.291	447750.635
201	BC	5+012.368	5019336.728	447743.999
202	HOC	5+015.895	5019339.699	447742.098
203	PI	5+072.944	5019387.846	447711.497
204	HOC	5+107.918	5019412.782	447686.337
205	EC	5+133.083	5019431.146	447669.134
206	POE	5+141.233	5019436.972	447663.434



No.	Description	By	Date (dd/mm/yy)
0	ISSUED FOR REVIEW	PH	31/03/14

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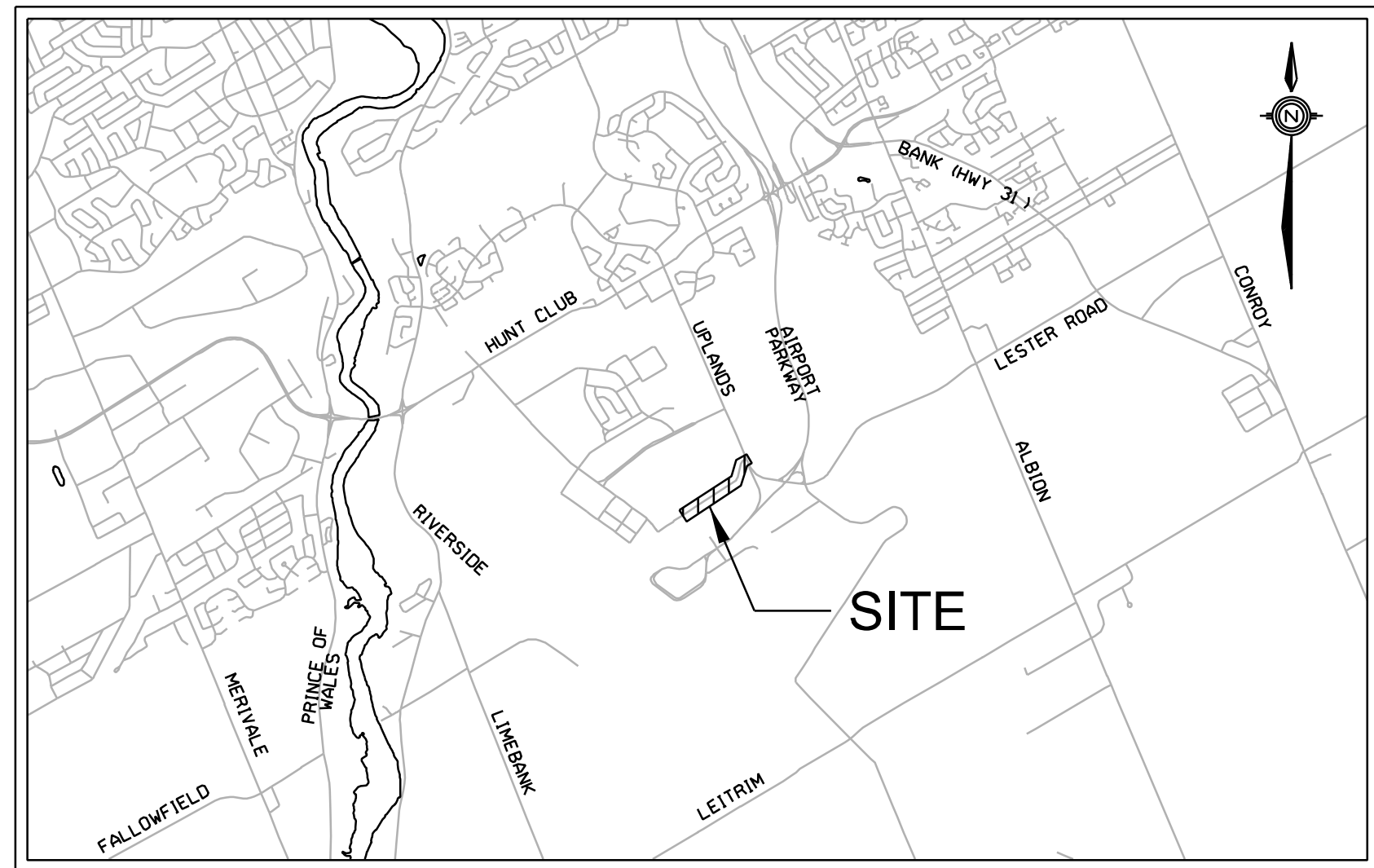
project / projet

UPLANDS CAMPUS-RESEARCH ROAD REHABILITATION

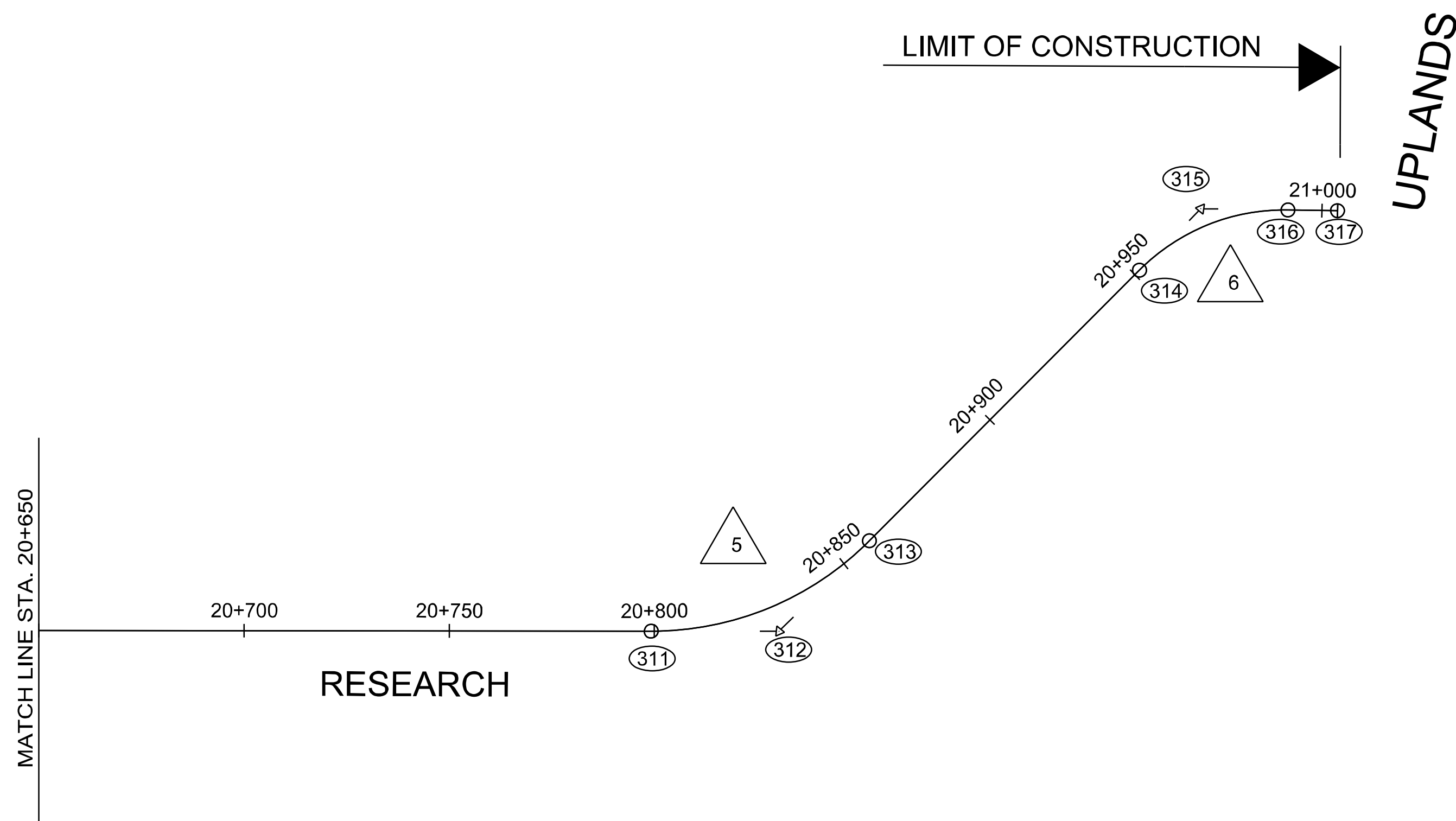
drawing / dessin
HORIZONTAL ALIGNMENT 1

designed	JZ.	conçu	date	MARCH 2014	date		
drawn	MS.	dessiné	scale	1:500	échelle		
checked	MB.	vérifié	sheet	R1	of/de	R11	feuille
approved	PH.	approuvé	W.O.no.	C766-SITE	D.T.no.		
dwg.no.	D-3951-AL1	dessin no.					

D-3951-AL1



KEY PLAN
N.T.S.



CONTROL ALIGNMENT (RESEARCH)				
STATION	DESCRIPTION	COORDINATES		
		NORTHING	EASTING	
20+799.272	BC	5019731.140	448368.304	311
20+830.434	PI	5019747.632	448394.745	312
20+858.341	EC	5019778.005	448401.712	313
20+951.563	BC	5019868.868	448422.556	314
20+972.759	PI	5019889.528	448427.295	315
20+991.659	EC	5019900.487	448445.438	316
21+003.766	POE	5019906.746	448455.801	317

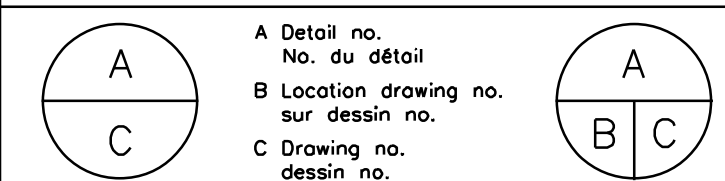
CURVE NO. 5	
Δt	= 45° 07' 31.937"
R	= 75.0
T	= 31.162
L	= 59.069
E	= 6.216

CURVE NO. 6	
Δt	= 45° 56' 48.258"
R	= 50.0
T	= 21.196
L	= 40.096
E	= 4.307



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project / projet

UPLANDS CAMPUS-RESEARCH ROAD REHABILITATION

drawing / dessin
HORIZONTAL ALIGNMENT 2

designed / conçu	date	drawn / dessiné	scale	checked / vérifié	sheet / feuille	approved / approuvé	W.O.no.	D.T.no.	dwg.no.	dessin no.
JZ.	MARCH 2014	M.S.	1:500	MB.	R2 of/de R11	PH.	C766-SITE		D-3951-AL2	D-3951-AL2

GENERAL NOTES:

1. REMOVE AND SALVAGE ALL SIGNAGE IN CONFLICT WITH CATCH BASIN LEAD AND STREET LIGHTING DUCT TRENCHING AND CATCH BASIN INSTALLATION. REINSTALL SIGNAGE AT SAME LOCATION FOLLOWING CONSTRUCTION.



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A	A Detail no. No. du détail	A
B	B Location drawing no. sur dessin no.	B
C	C Drawing no. dessin no.	C

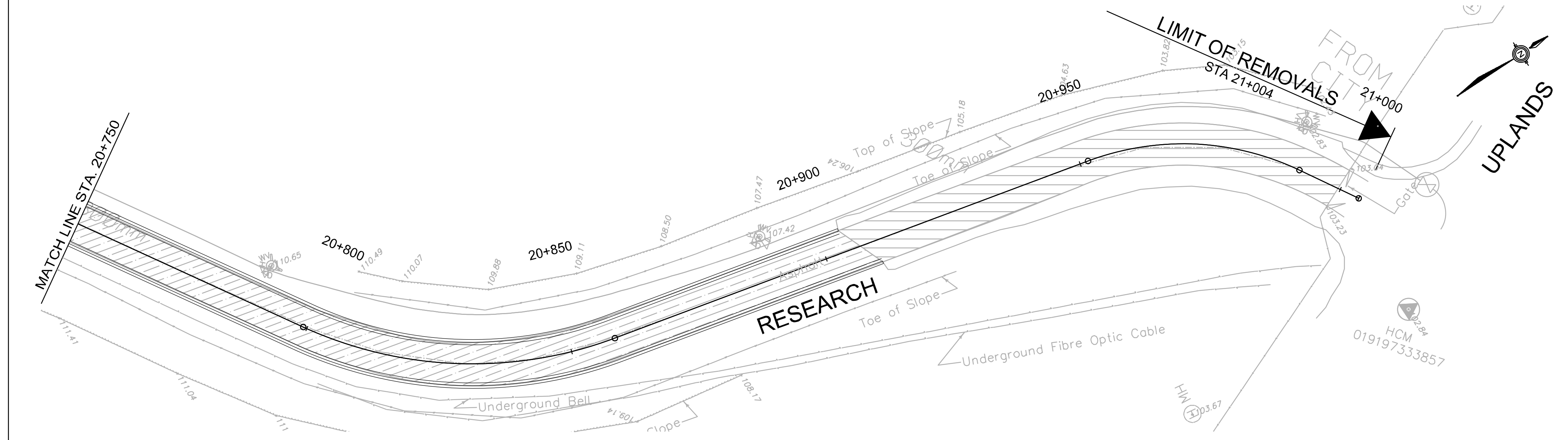
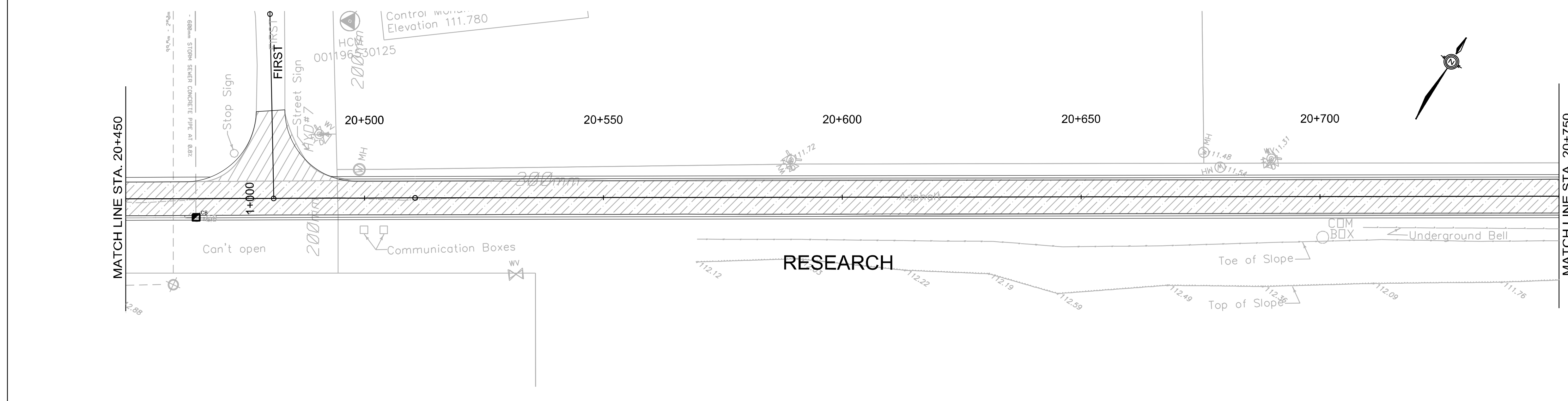
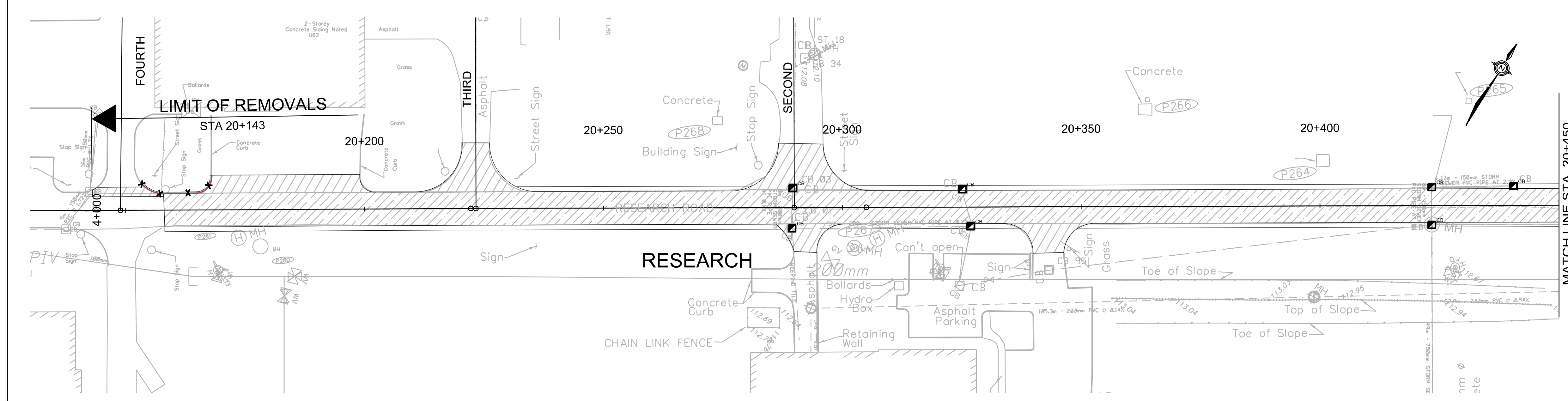
project projet

UPLANDS CAMPUS-RESEARCH ROAD REHABILITATION

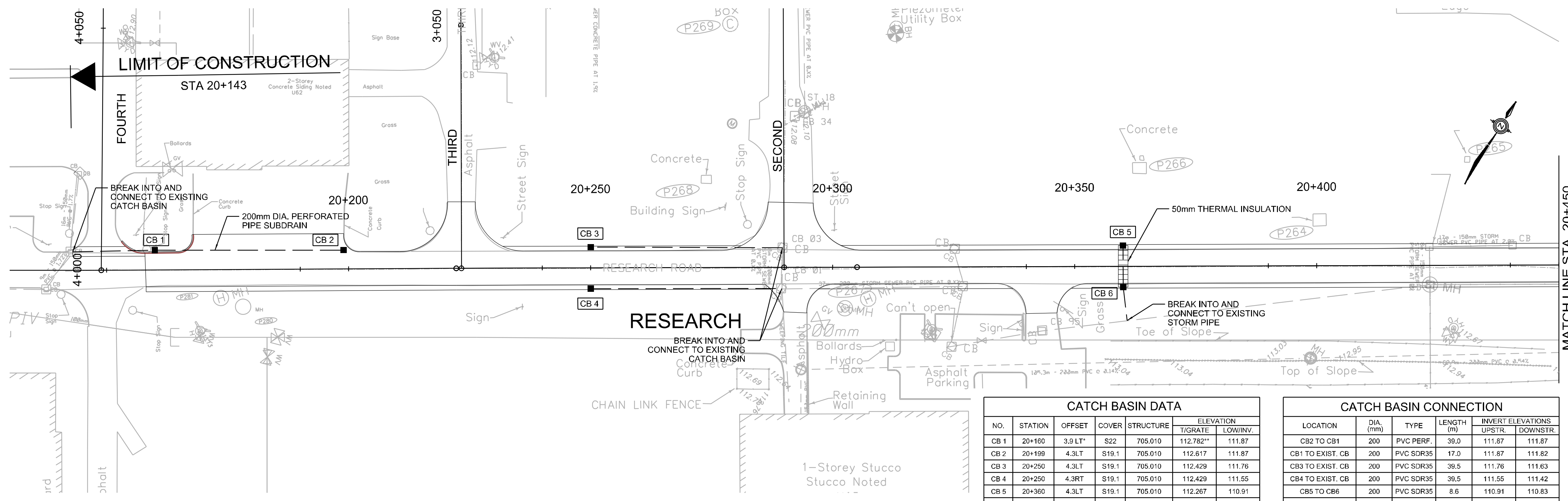
drawing dessin
REMOVALS

designed	JZ.	conçu	date	MARCH 2014	date
drawn	MS.	dessiné	scale	1:500	échelle
checked	MB.	vérifié	sheet	R3 of/de	feuille
approved	PH.	approuvé	W.O.no.	C766-SITE	D.T.no.
dwg.no.	D-3951-REM				

dwg.no. dessin no.



GENERAL NOTES:
 1. REINSTATE ALL DISTURBED AREAS WITH 100mm TOPSOIL AND SEED AND MULCH.

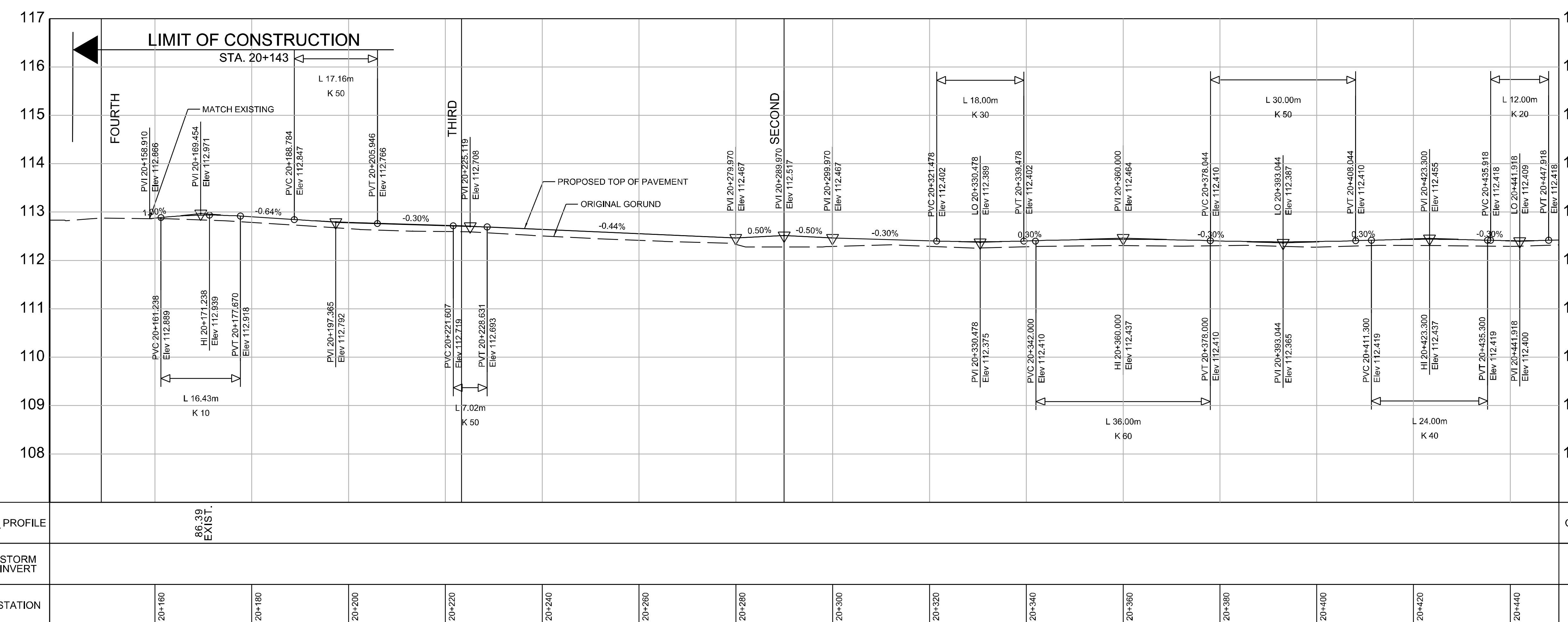


CATCH BASIN DATA						
NO.	STATION	OFFSET	COVER	STRUCTURE	ELEVATION	
					T/GRATE	LOW/INVT.
CB 1	20+160	3.9 LT*	S22	705.010	112.782**	111.87
CB 2	20+199	4.3LT	S19.1	705.010	112.617	111.87
CB 3	20+250	4.3LT	S19.1	705.010	112.429	111.76
CB 4	20+250	4.3RT	S19.1	705.010	112.429	111.55
CB 5	20+360	4.3LT	S19.1	705.010	112.267	110.91
CB 6	20+360	4.3RT	S19.1	705.010	112.267	110.81

CATCH BASIN CONNECTION					
LOCATION	DIA. (mm)	TYPE	LENGTH (m)	INVERT ELEVATIONS	
				UPSTR.	DOWNSTR.
CB2 TO CB1	200	PVC PERF.	39.0	111.87	111.87
CB1 TO EXIST. CB	200	PVC SDR35	17.0	111.87	111.82
CB3 TO EXIST. CB	200	PVC SDR35	39.5	111.76	111.63
CB4 TO EXIST. CB	200	PVC SDR35	39.5	111.55	111.42
CB5 TO CB6	200	PVC SDR35	8.6	110.91	110.83
CB6 TO EXIST. CB	200	PVC SDR35	7.0	110.81	110.75

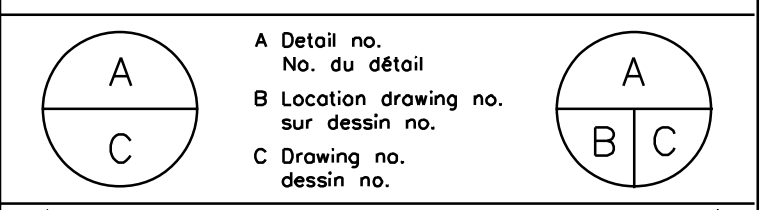
* OFFSETS ARE FROM CONTROL LINE TO FACE OF CURB FOR CATCH BASINS
 ** OFFSETS ARE FROM CONTROL LINE TO CENTRE OF CATCH BASINS

** ELEVATION AT CURB / BARRIER FACE



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project: **UPLANDS CAMPUS-RESEARCH ROAD REHABILITATION**
 drawing: **PLAN AND PROFILE**

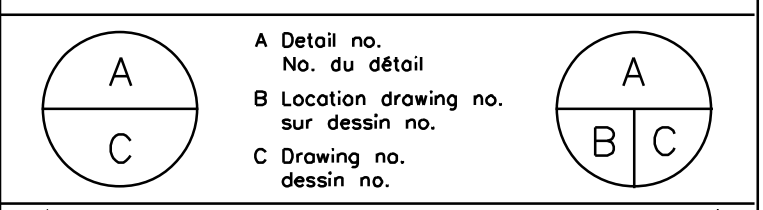
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drawn	MS.	dessiné	1:500	échelle
checked	MB.	vérifié	R4	sheet of/de feuille
approved	PH.	approuvé	C766-SITE	W.O.no. D.T.no.
dwg.no.	D-3951-PP1			

GENERAL NOTES:
 1. REINSTATE ALL DISTURBED AREAS WITH 100mm TOPSOIL AND SEED AND MULCH.



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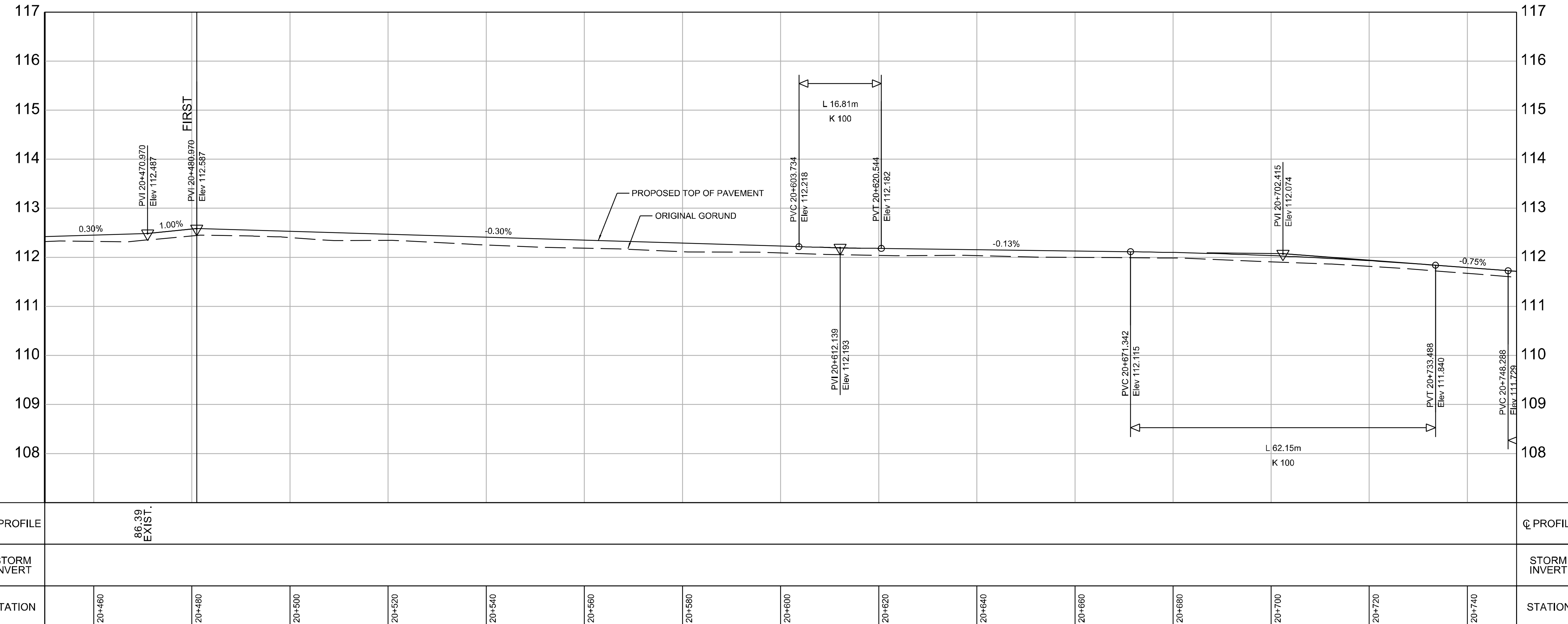
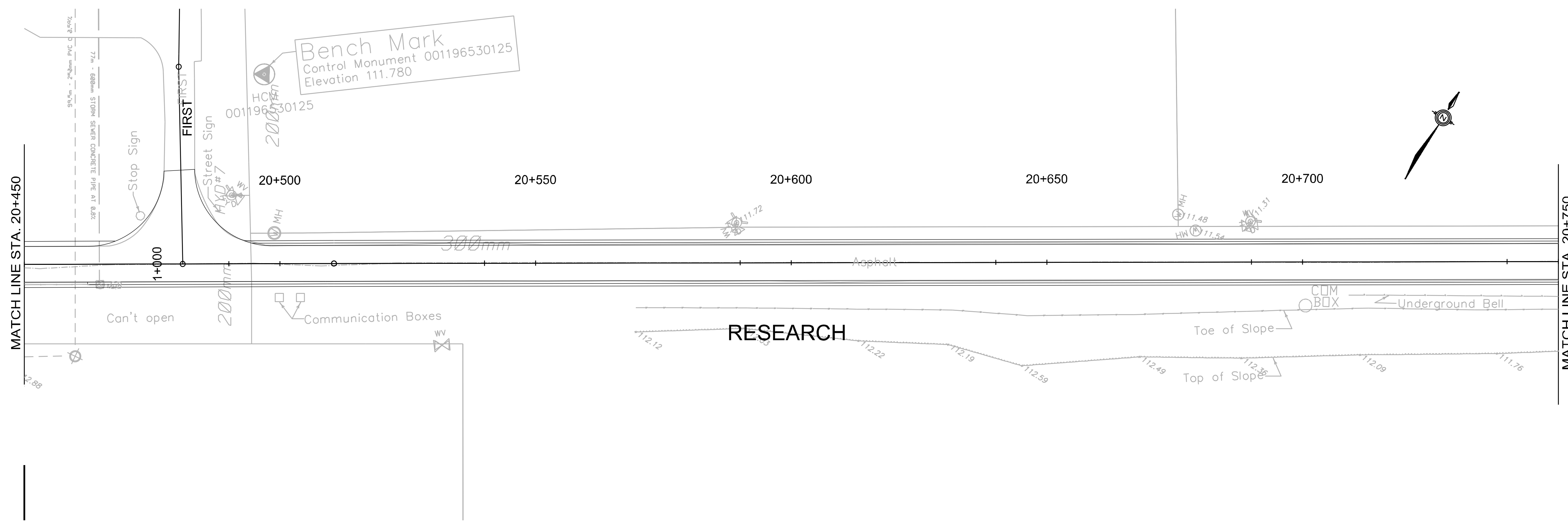
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UPLANDS CAMPUS-RESEARCH ROAD REHABILITATION

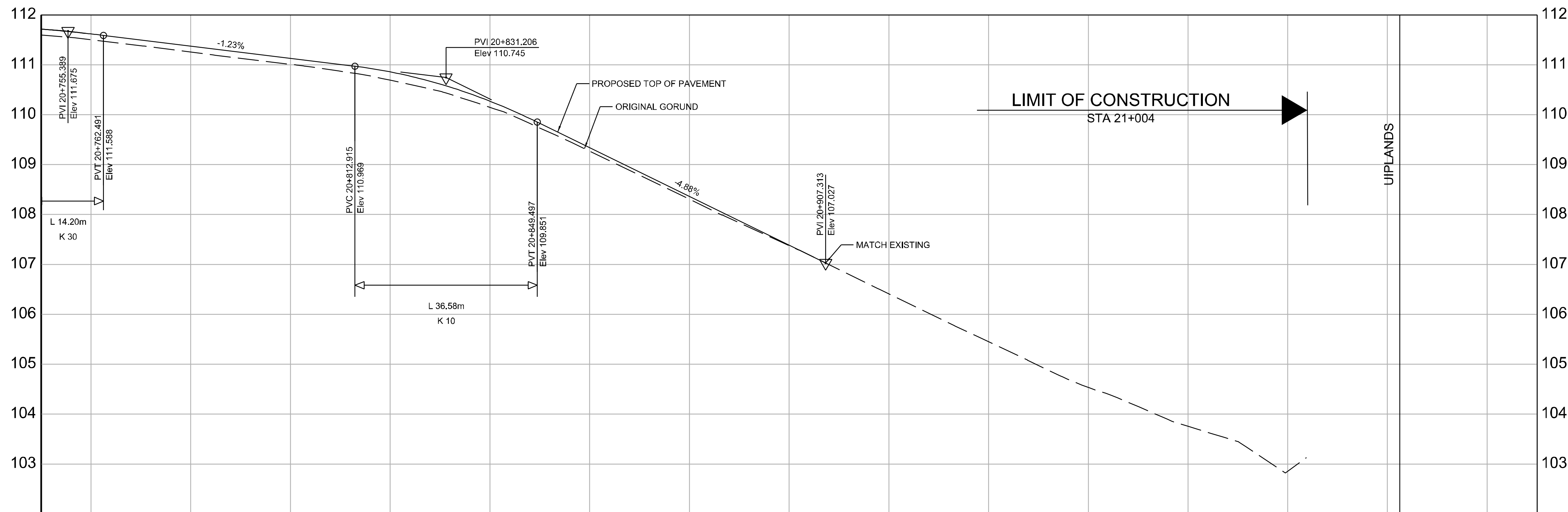
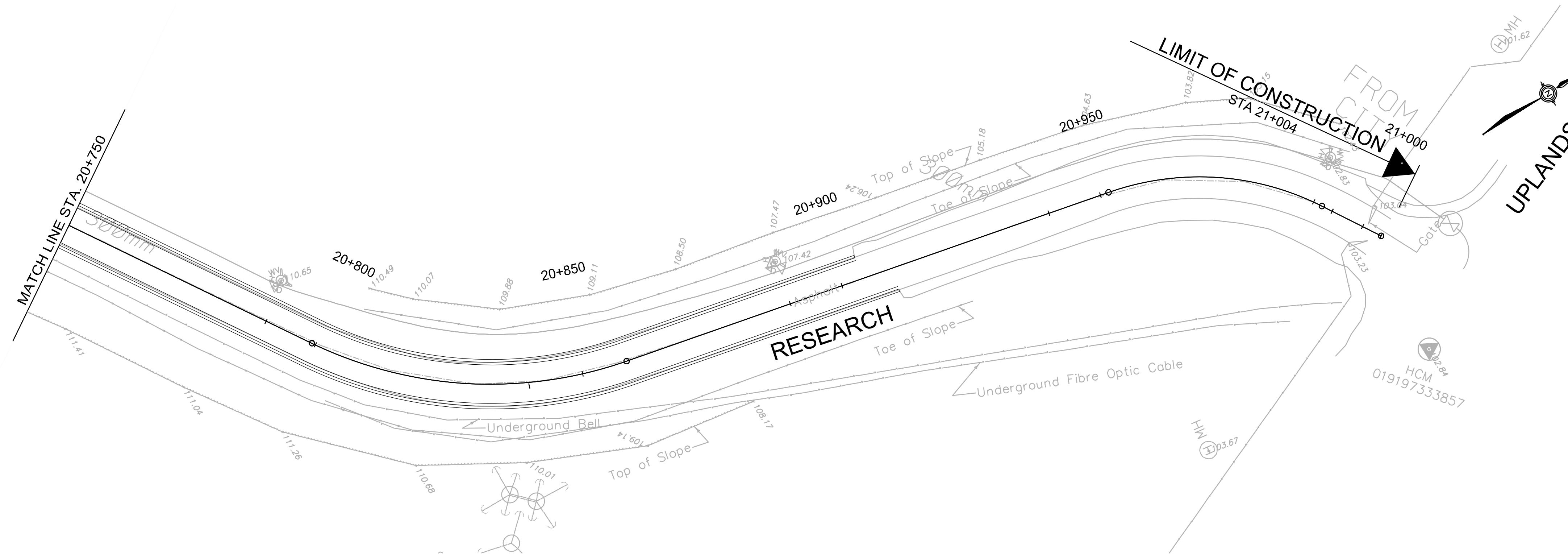
PLAN AND PROFILE

designed JZ.	conçu MARCH 2014	date	dote
drawn MS.	dessiné 1:500	scale	échelle
checked MB.	vérifié R5	sheet of/de	feuille R11
approved PH.	approuvé C766-SITE	W.O.no.	D.T.no.
dwg.no. D-3951-PP2		dessin no.	



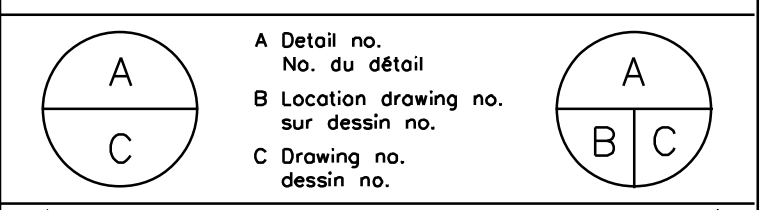
Q PROFILE	66.30 EXIST.														Q PROFILE	
STORM INVERT															STORM INVERT	
STATION	20+460	20+480	20+500	20+520	20+540	20+560	20+580	20+600	20+620	20+640	20+660	20+680	20+700	20+720	20+740	STATION

GENERAL NOTES:
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project projet
UPLANDS CAMPUS-RESEARCH ROAD REHABILITATION
 drawing dessin
PLAN AND PROFILE

designed	JZ.	conçu	date	MARCH 2014	date
drawn	MS.	dessiné	scale	1:500	échelle
checked	MB.	vérifié	sheet	R6	of/de
approved	PH.	approuvé	W.O.no.	C766-SITE	D.T.no.
dwg.no.		dessin no.		D-3951-PP3	

GENERAL NOTES:
 1. REINSTATE ALL DISTURBED AREAS WITH 100mm TOPSOIL AND SEED AND MULCH.



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A	A Detail no. No. du détail	A
B	B Location drawing no. sur dessin no.	B C
C	C Drawing no. dessin no.	

project / projet

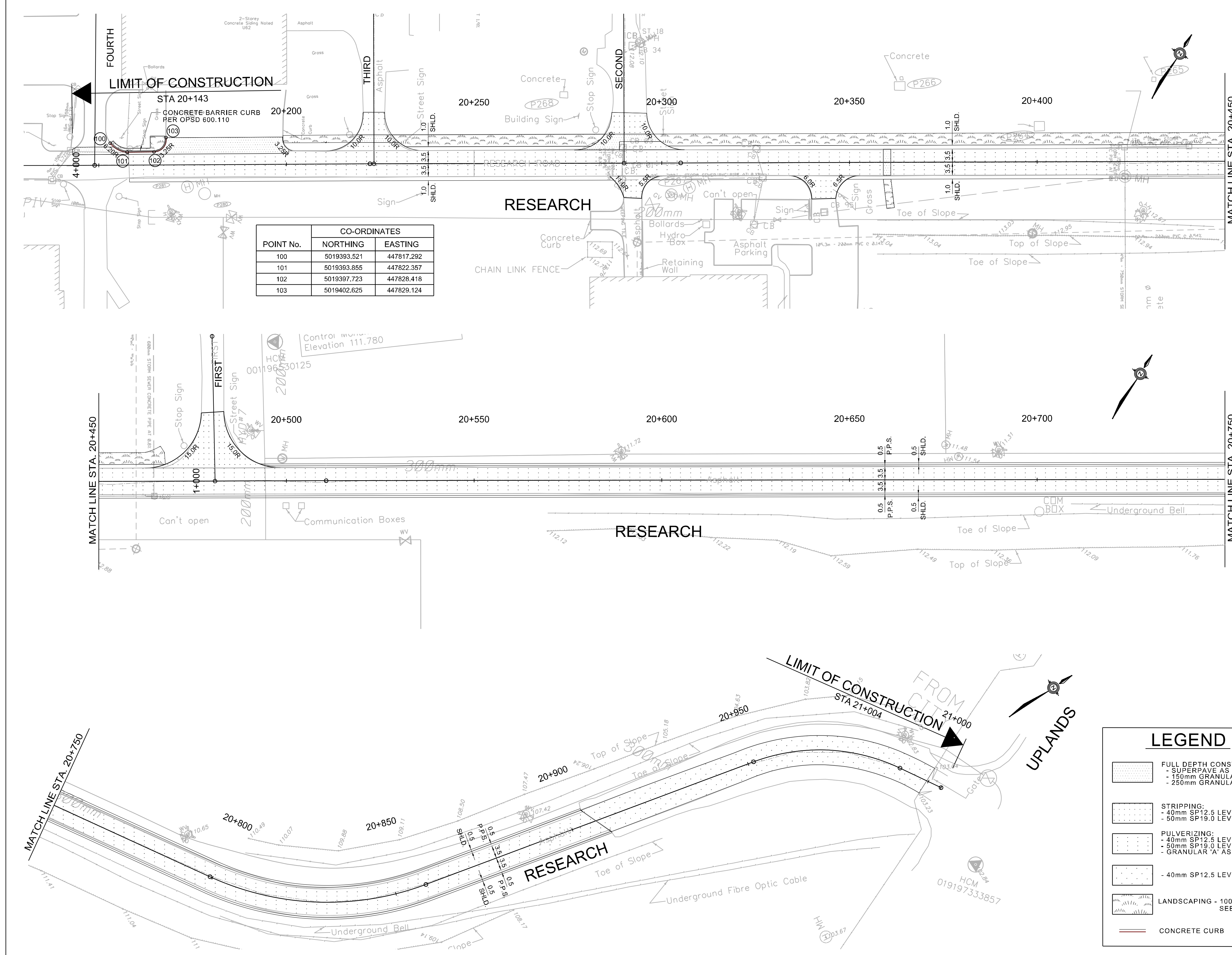
UPLANDS CAMPUS-RESEARCH ROAD REHABILITATION

drawing / dessin

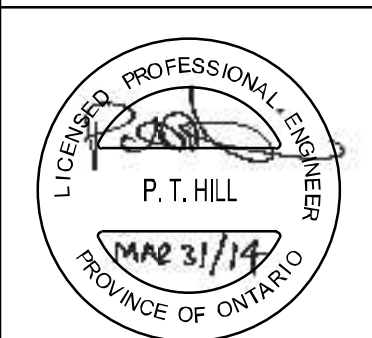
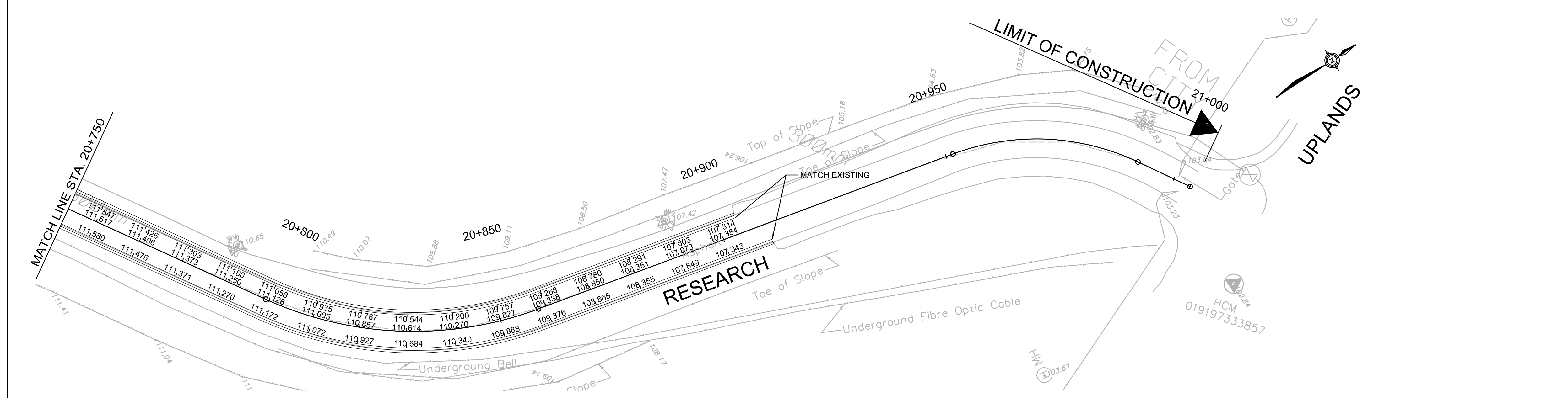
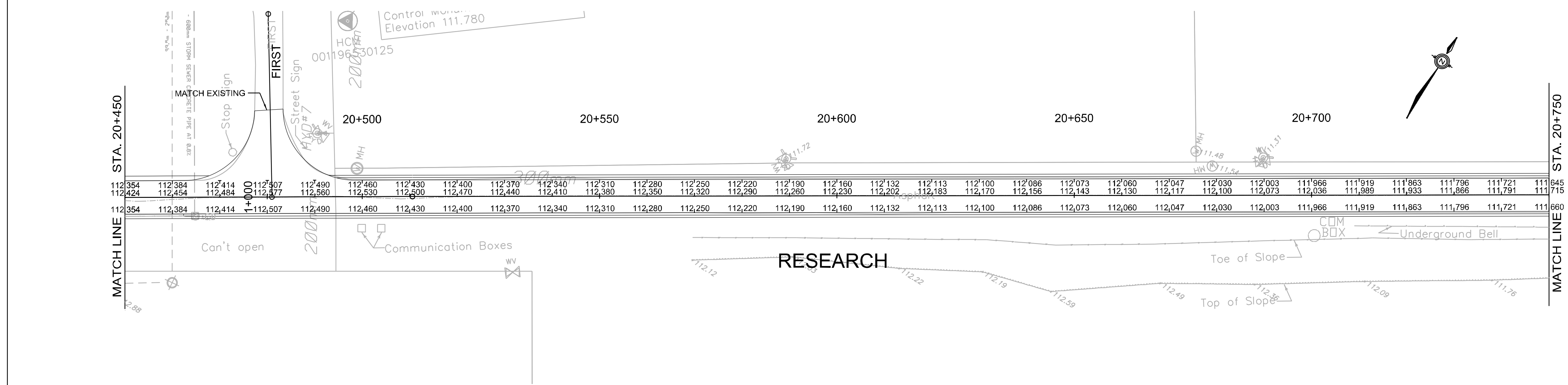
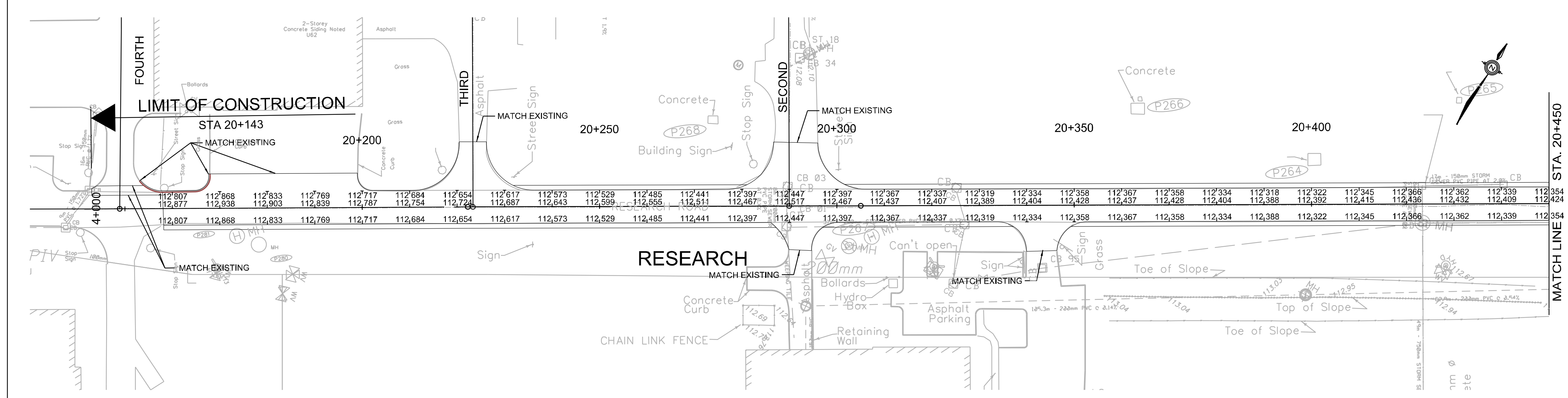
GEOMETRY AND GENERAL LAYOUT

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drawn	M.S.	dessiné	scale	1:500
checked	MB.	vérifié	sheet	R7 of/de R11
approved	PH.	approuvé	W.O.no.	D.T.no.
			C766-SITE	

dwg.no. / dessin no. **D-3951-GGL**



POINT No.	CO-ORDINATES	
	NORTHING	EASTING
100	5019393.521	447817.292
101	5019393.855	447822.357
102	5019397.723	447828.418
103	5019402.625	447829.124



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A	A Detail no. No. du détail	A
B	B Location drawing no. sur dessin no.	B
C	C Drawing no. dessin no.	C

project projet

UPLANDS CAMPUS-RESEARCH ROAD REHABILITATION

drawing dessin

PAVEMENT ELEVATIONS

designed	JZ.	conçu	date	MARCH 2014
drawn	MS.	dessiné	scale	1:500
checked	MB.	vérifié	sheet	R8 of/de R11
approved	PH.	approuvé	W.O.no.	D.T.no.
			C766-SITE	
dwg.no.			dessin no.	

D-3951-PEL

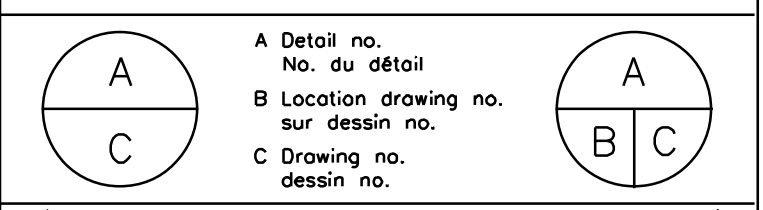
GENERAL NOTES:
 1. REFER TO PAVEMENT ELEVATIONS DRAWING FOR FINISHED GRADES.
 2. REINSTATE ALL DISTURBED AREAS WITH 100mm TOPSOIL AND SEED AND MULCH.

NOTES:
 1. EXCAVATE EXISTING SHOULDER AND REMOVE ALL TOPSOIL AND ORGANICS AS REQUIRED TO ACCOMMODATE PROPOSED SHOULDER.



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project projet

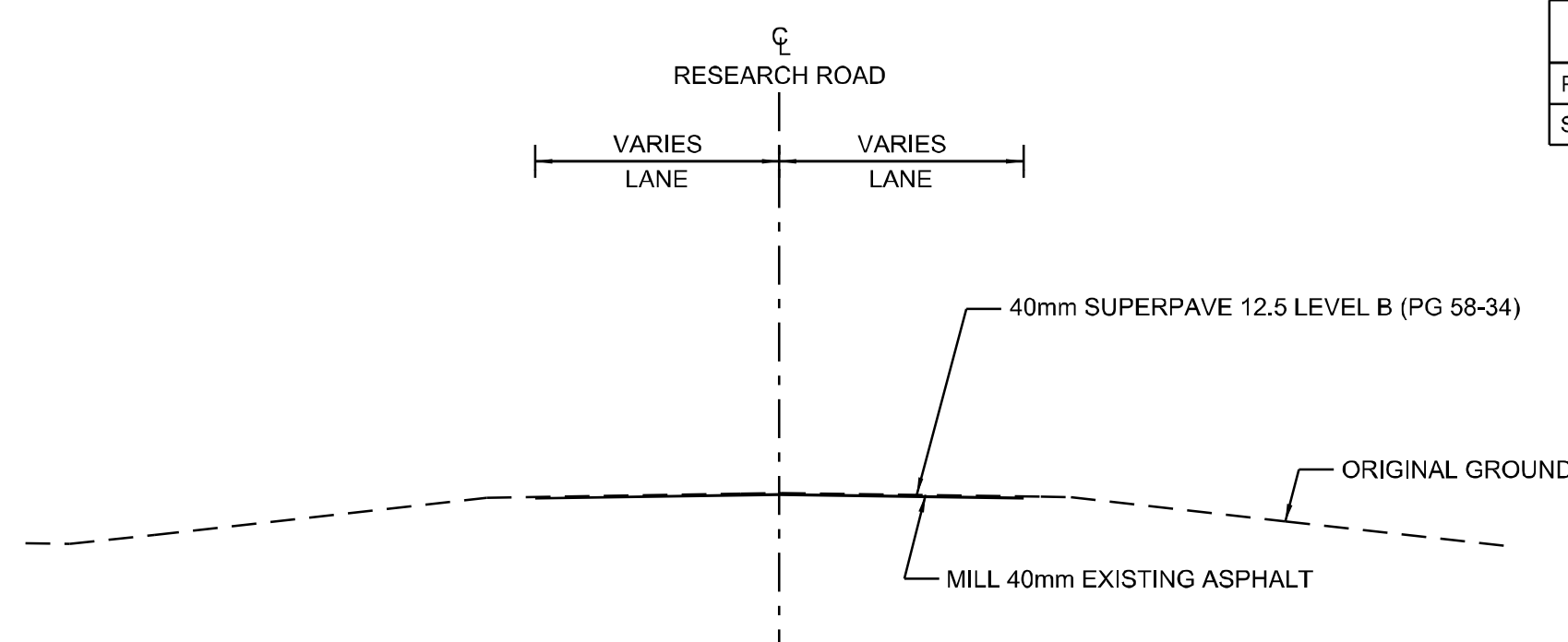
UPLANDS CAMPUS-RESEARCH ROAD REHABILITATION

drawing dessin

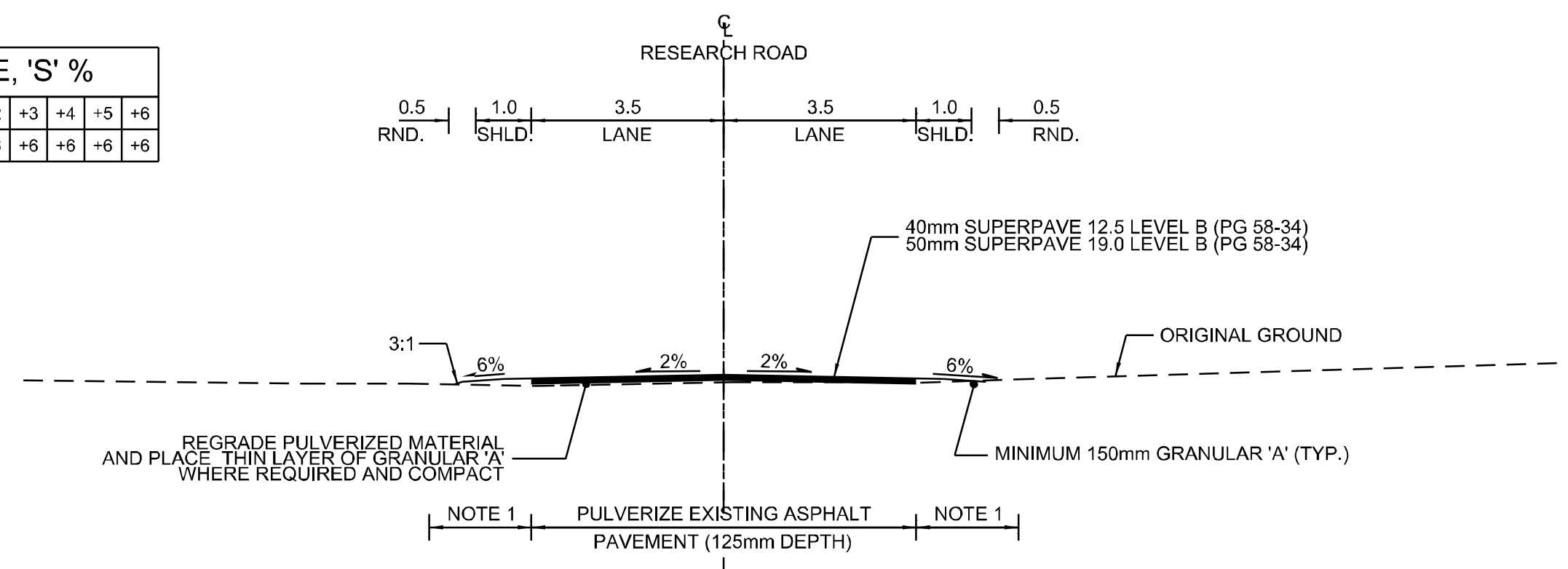
TYPICAL SECTIONS AND DETAILS

designed	JZ.	conçu	date	MARCH 2014
drawn	MS.	dessiné	scale	1:100
checked	MB.	vérifié	sheet	R9 of/de R11
approved	PH.	approuvé	W.O.no.	D.T.no.
dwg.no.	D-3951-TS 1			

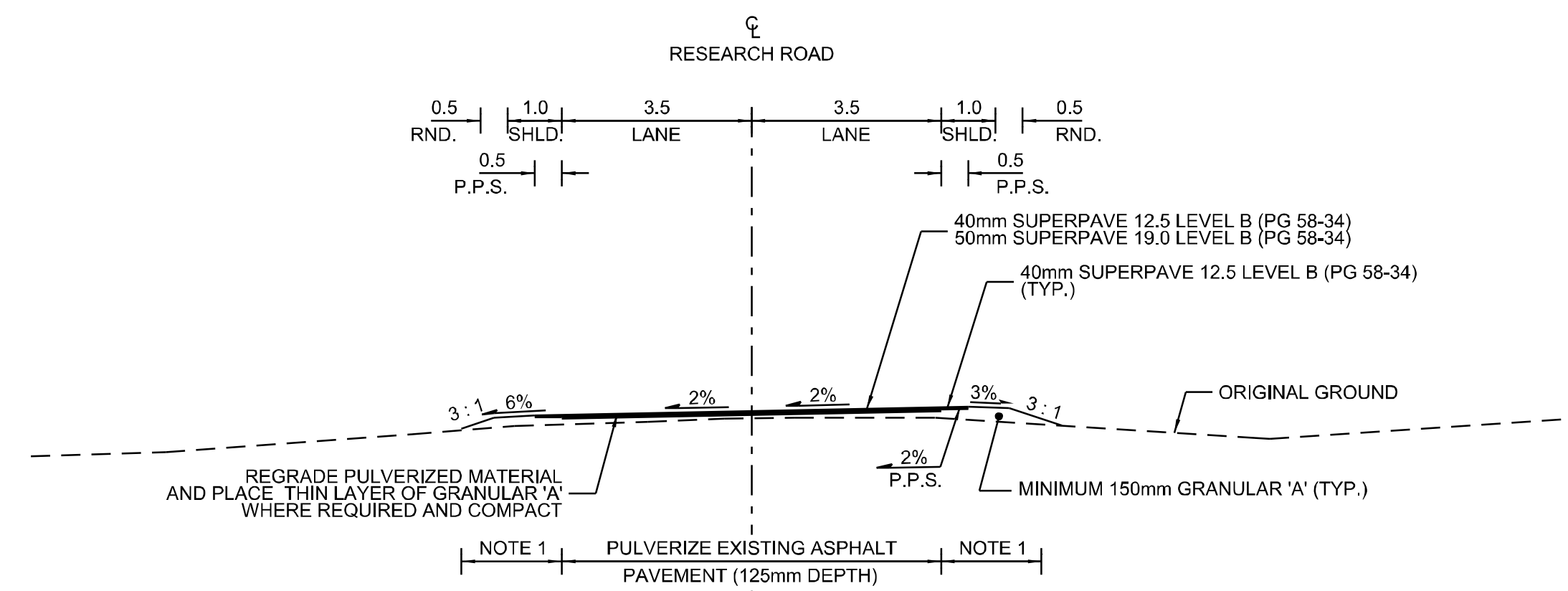
PAVEMENT SHOULDER	-6	-5	-4	-3	-2	-1	0	+1	+2	+3	+4	+5	+6
SHOULDER	+2	+2	+2	+3	+3	+4	+4	+5	+6	+6	+6	+6	+6



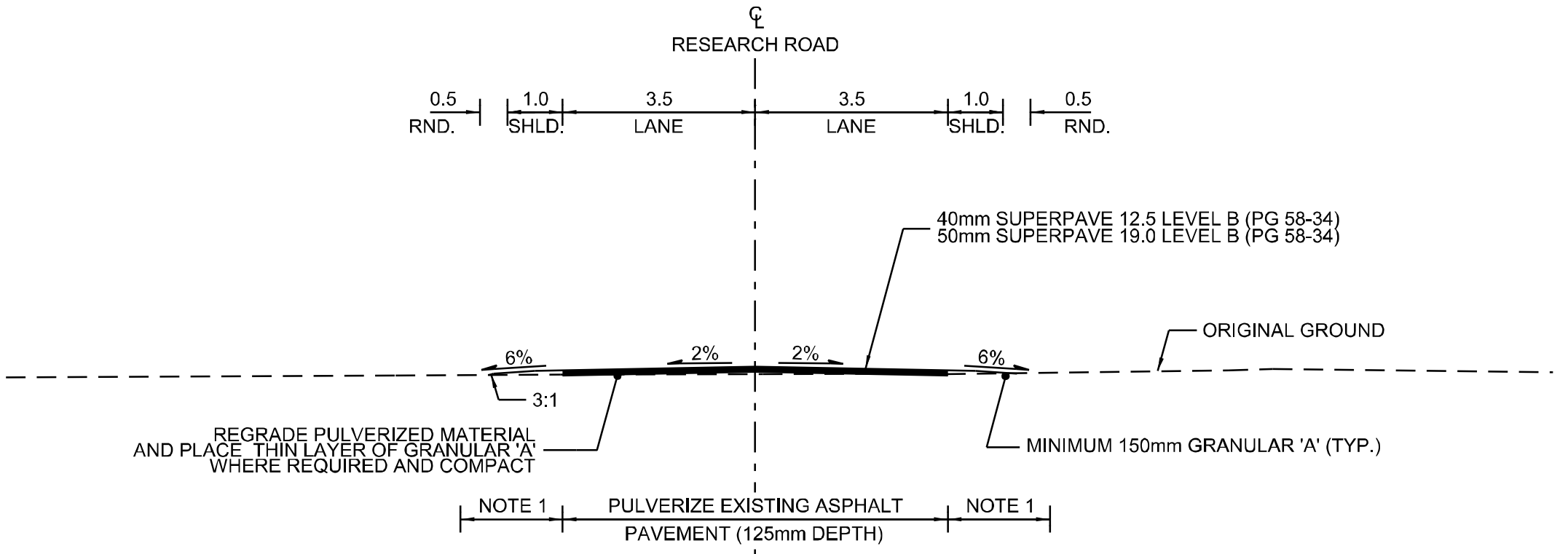
20+920 RESEARCH ROAD - FIRST TO UPLANDS



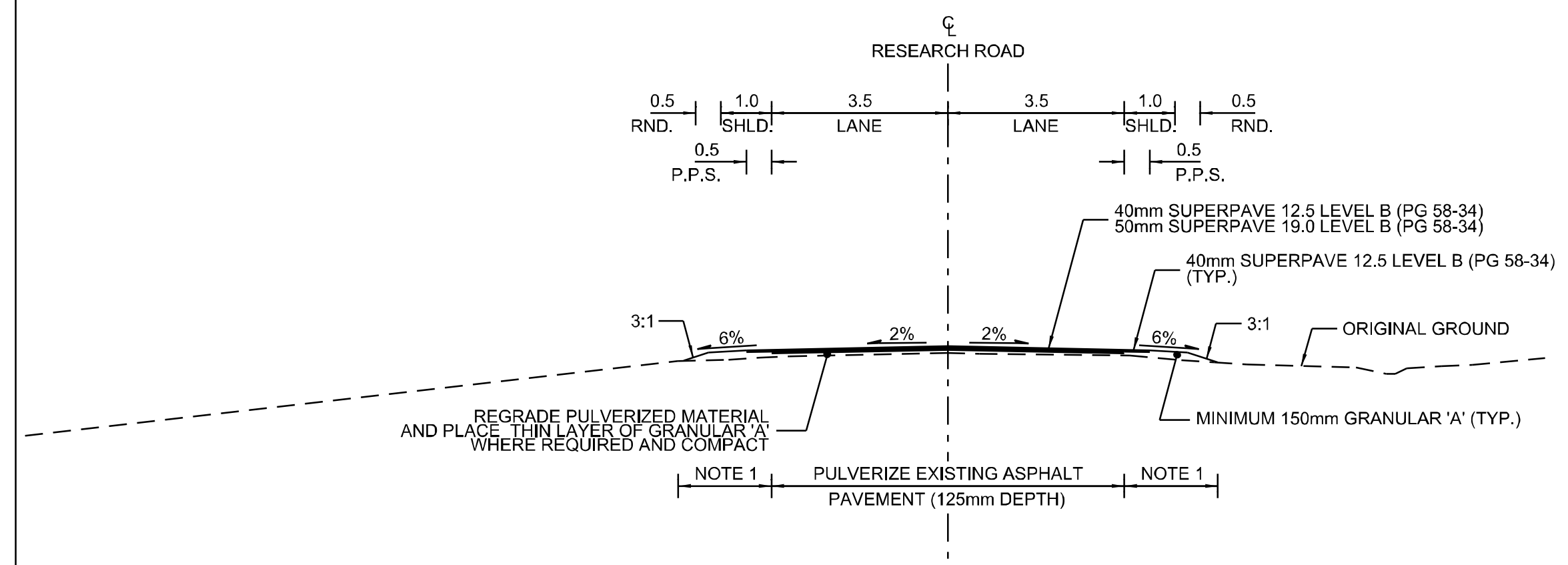
20+370 RESEARCH ROAD - SECOND TO FIRST



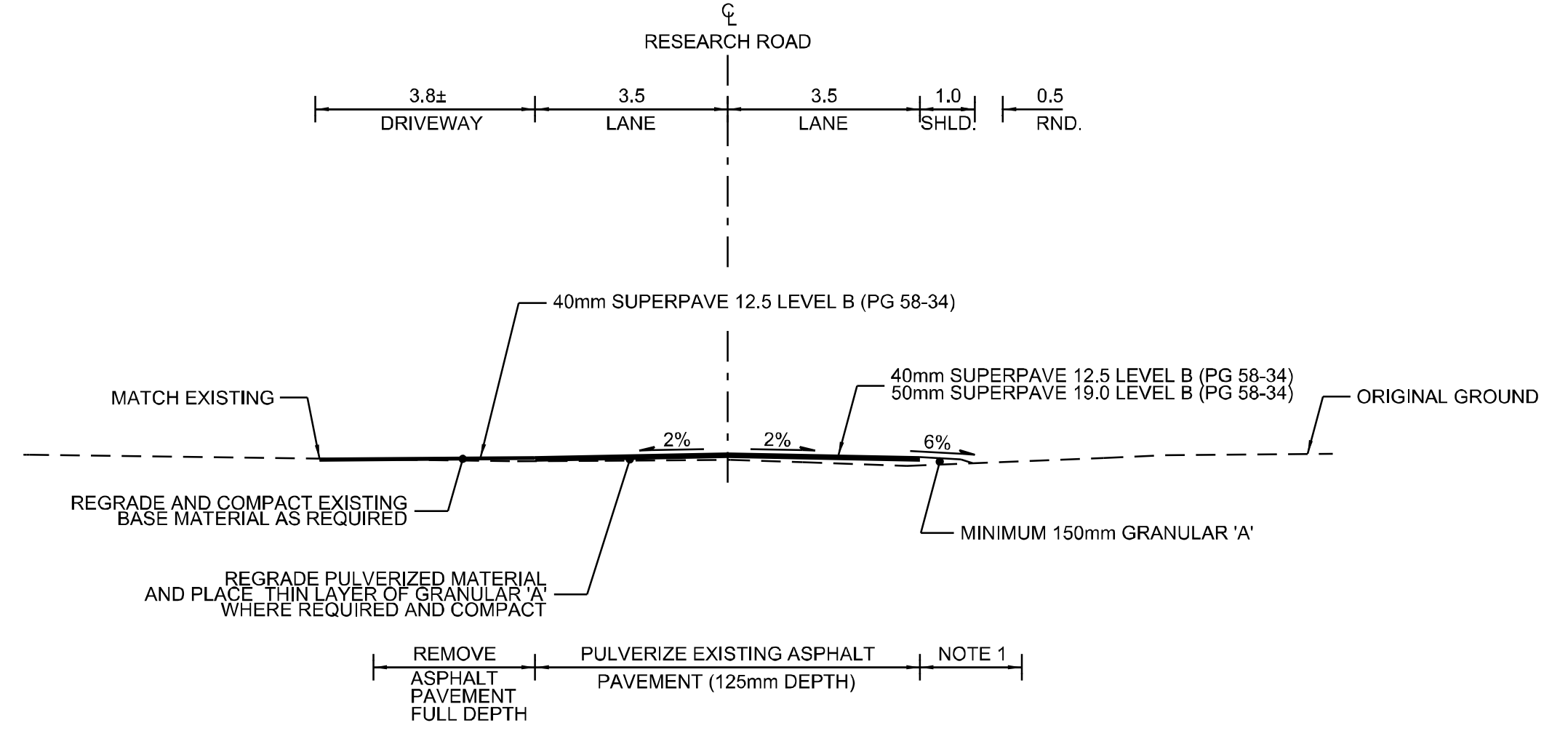
20+820 RESEARCH ROAD - FIRST TO UPLANDS REVERSE CROWN



20+250 RESEARCH ROAD - SECOND TO FIRST

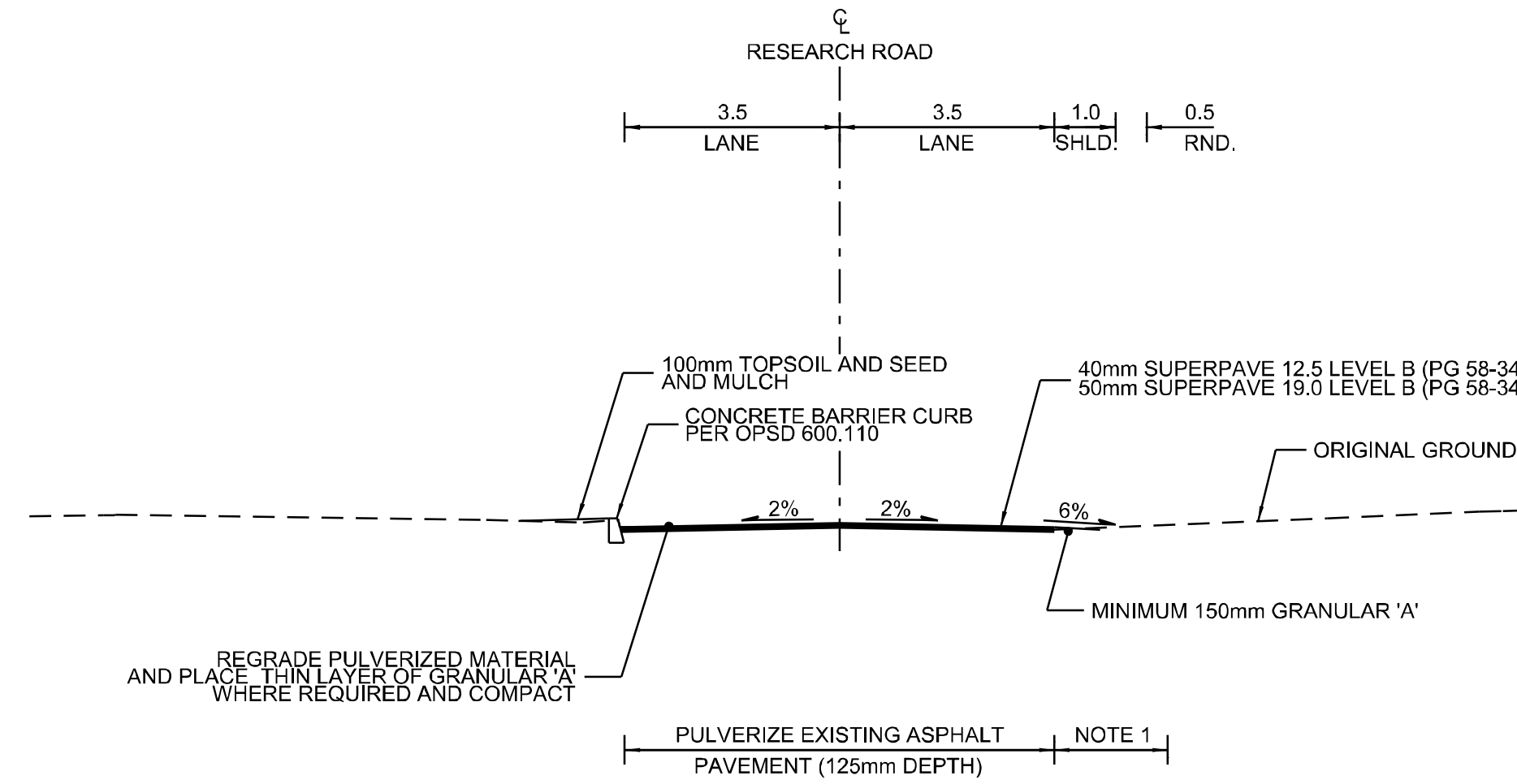


20+650 RESEARCH ROAD - FIRST TO UPLANDS TANGENT

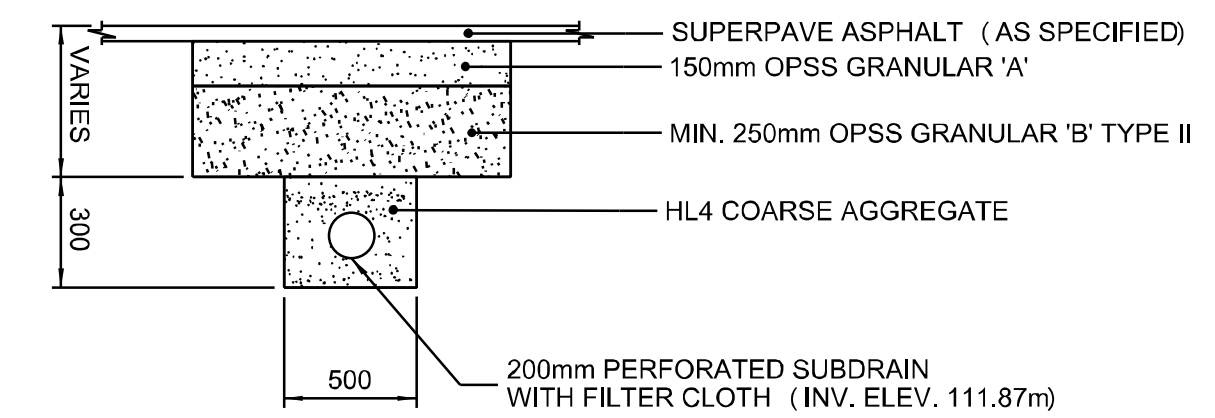


20+180 RESEARCH ROAD - FOURTH TO THIRD

GENERAL NOTES:
 1. REFER TO PAVEMENT ELEVATIONS DRAWING FOR FINISHED GRADES.
 2. REINSTATE ALL DISTURBED AREAS WITH 100mm TOPSOIL AND SEED AND MULCH.



**20+160
 RESEARCH ROAD - FOURTH TO THIRD**



SUBDRAIN TRENCH REINSTATEMENT

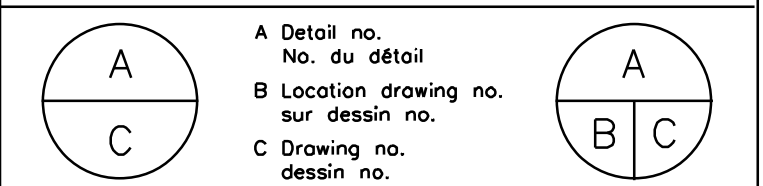
SCALE N.T.S.

NOTES:
 1. EXCAVATE EXISTING SHOULDER AND REMOVE ALL TOPSOIL AND ORGANICS AS REQUIRED TO ACCOMMODATE PROPOSED SHOULDER.



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project projet

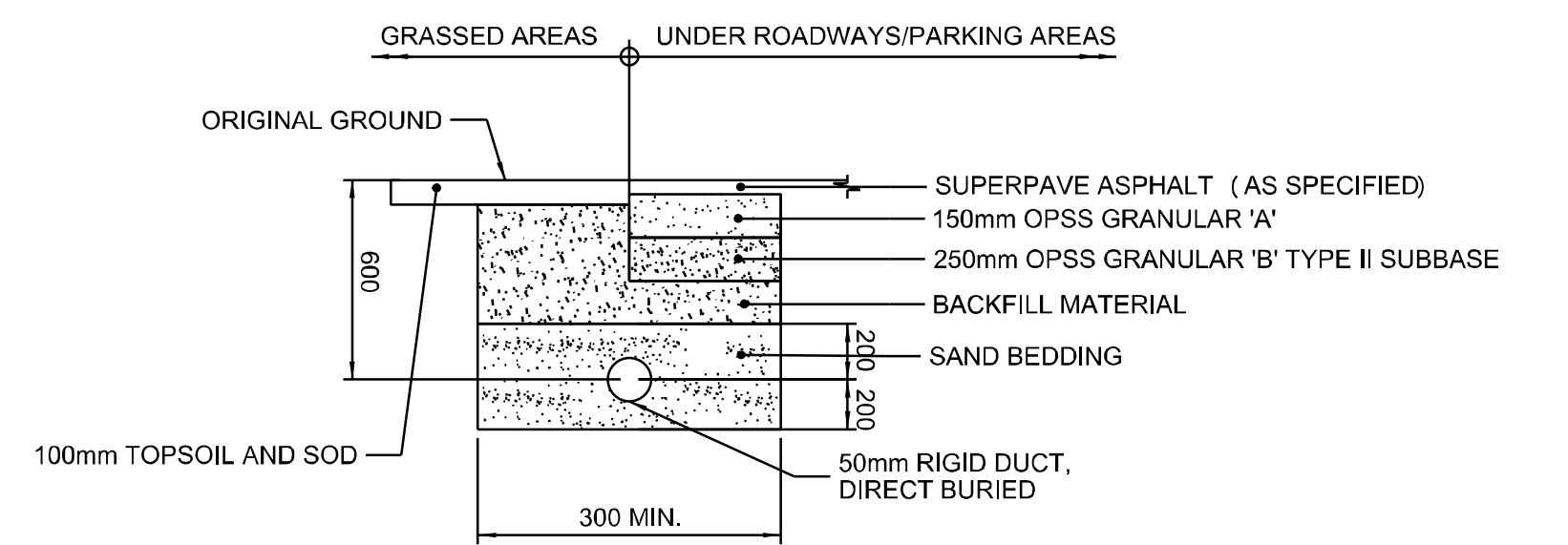
UPLANDS CAMPUS-RESEARCH ROAD REHABILITATION

drawing dessin

TYPICAL SECTIONS AND DETAILS

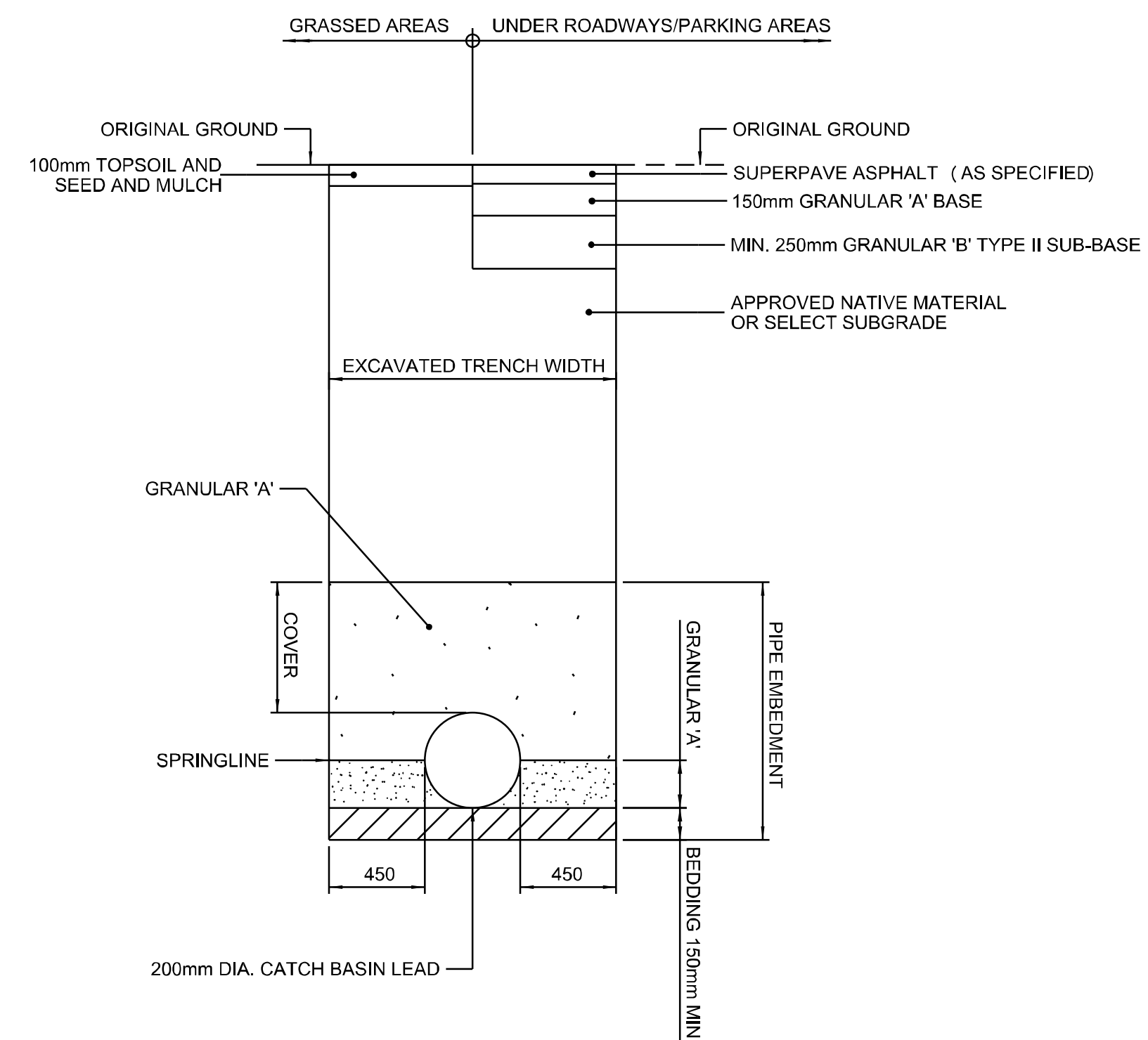
designed	conçu	date	dote
J.Z.		MARCH 2014	
drawn	dessiné	scale	échelle
M.S.		1:100	
checked	vérifié	sheet	feuille
MB.		R10 of/de	R11
approved	approuvé	W.O.no.	D.T.no.
P.H.		C766-SITE	

dwg.no. dessin no.
D-3951-TS2



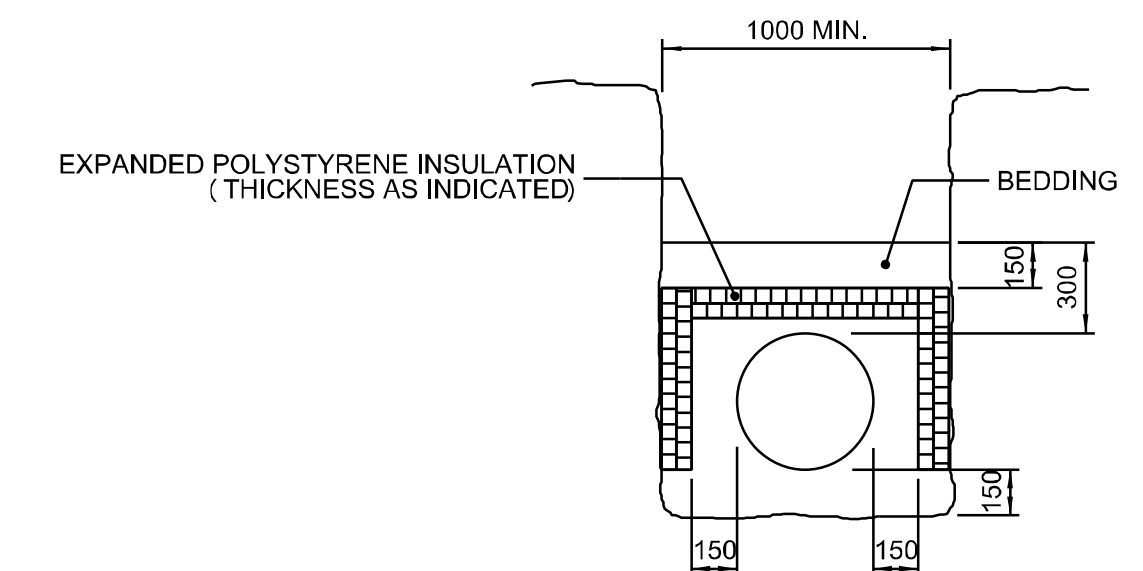
STREET LIGHTING DUCT TRENCH REINSTATEMENT

SCALE N.T.S.



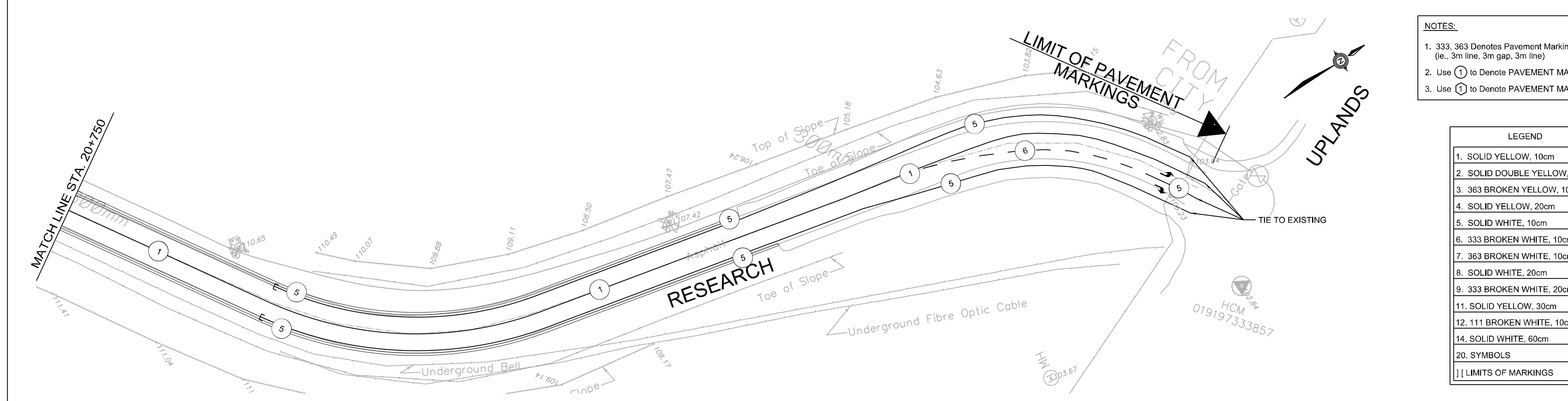
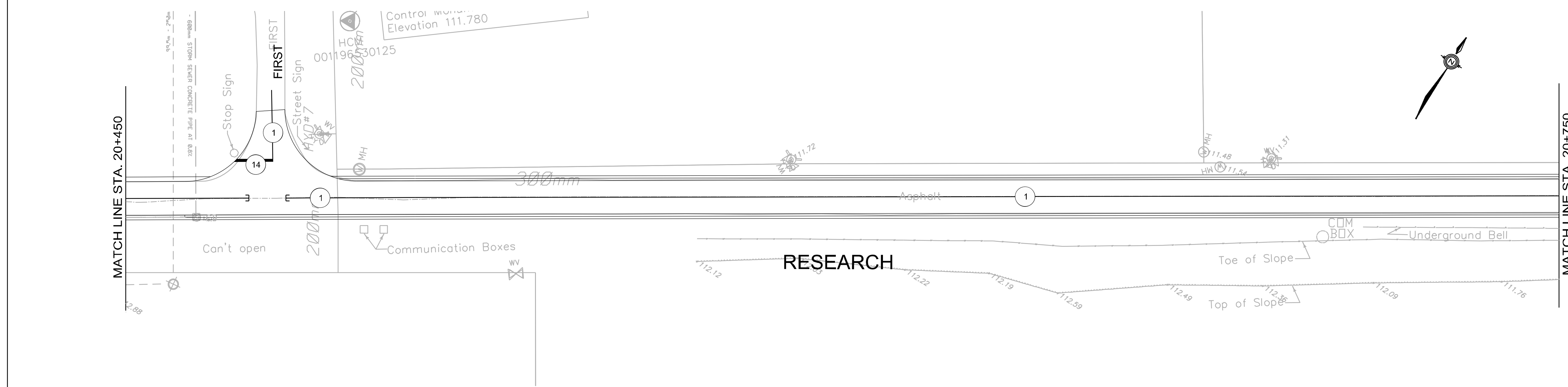
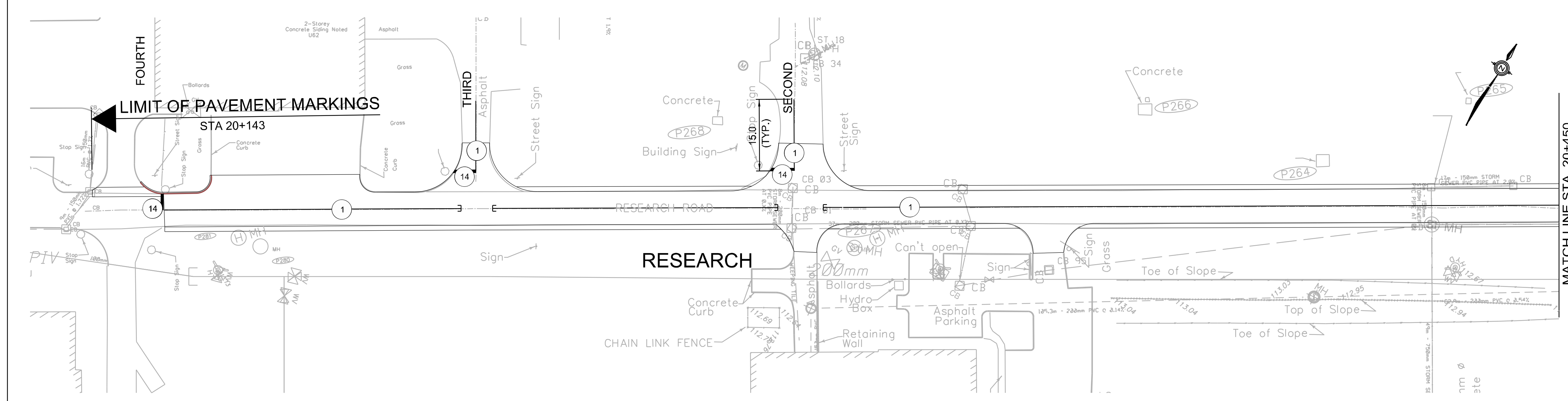
CATCH BASIN LEAD TRENCH DETAIL

SCALE 1:25



THERMAL INSULATION FOR STORM SEWERS IN SHALLOW TRENCHES

SCALE 1:25



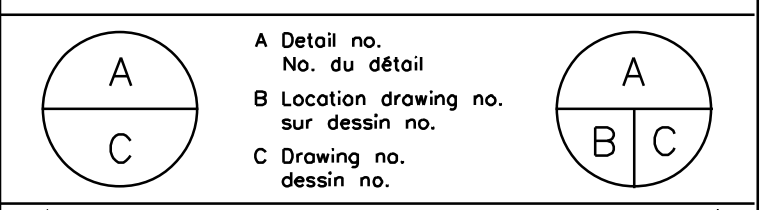
- NOTES:**
- 333, 363 Denotes Pavement Marking Spacing (i.e., 3m line, 3m gap, 3m line)
 - Use ① to Denote PAVEMENT MARKING
 - Use ① to Denote PAVEMENT MARKING, DURABLE

LEGEND	
1.	SOLID YELLOW, 10cm
2.	SOLID DOUBLE YELLOW, 10cm
3.	363 BROKEN YELLOW, 10cm
4.	SOLID YELLOW, 20cm
5.	SOLID WHITE, 10cm
6.	333 BROKEN WHITE, 10cm
7.	363 BROKEN WHITE, 10cm
8.	SOLID WHITE, 20cm
9.	333 BROKEN WHITE, 20cm
11.	SOLID YELLOW, 30cm
12.	111 BROKEN WHITE, 10cm
14.	SOLID WHITE, 60cm
20.	SYMBOLS
]] LIMITS OF MARKINGS	



No.	Description	By	Date (dd/mm/yy)
0	ISSUED FOR REVIEW	PH	31/03/14

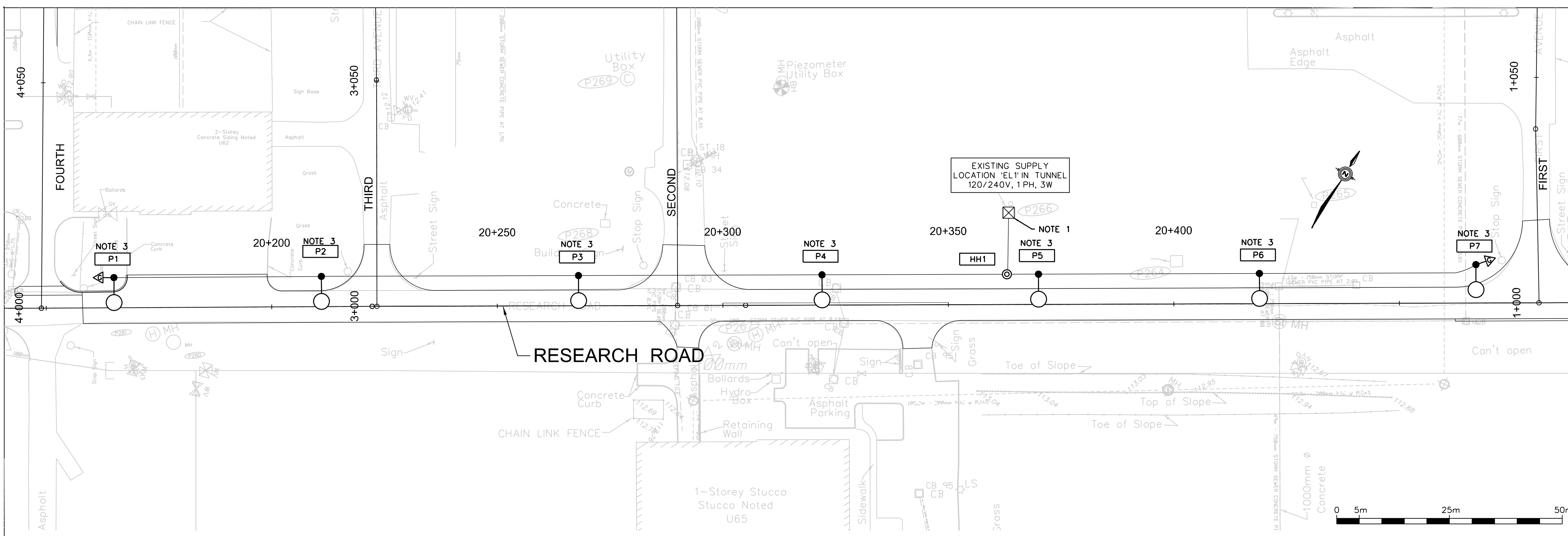
o Verify all dimensions and site conditions and be responsible for same
 o Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité



project: **UPLANDS CAMPUS-RESEARCH ROAD REHABILITATION**
 drawing: **PAVEMENT MARKINGS AND SIGNAGE**

designed	JZ.	conçu	MARCH 2014	date	
drawn	MS.	dessiné	1:500	échelle	
checked	MB.	vérifié	R11	sheet of/de	R11
approved	PH.	approuvé	C766-SITE	W.O.no.	D.T.no.
dwg.no.					dessin no.

D-3951-TPM



- NOTES:**
- INSTALL NEW DUCT ENTRY IN TO THE EXISTING TUNNEL AND TERMINATE CONDUITS AND CABLES AT CIRCUIT BREAKER(S) IN THE EXISTING PANEL 'EL1' FOR ROADWAY LIGHTING.
 - 50mm PVC CONDUIT SHALL TRANSITION TO 50MM PVC COATED RIGID STEEL AT A POINT 300 MM BELOW GRADE. PROVIDE AN LB FITTING FOR ENTRY INTO THE BUILDING AND TRANSITION TO EXISTING SURFACE MOUNTED DUCT HANGER SYSTEM TO EXISTING SUPPLY PANEL. THE POINT OF ENTRY INTO BUILDING AND PATH TO PANEL TO BE VERIFIED ON THE SITE PRIOR TO CONSTRUCTION OF THE CONDUIT.
 - TRANSITION 50mm RIGID DUCT TO 50mm NON-METALLIC TUBING (ENT) AT POLE BASE AND ROUTE ENT INTO SLEEVE TO A POINT 300mm ABOVE TOP OF FOUNDATION. SEE DETAIL II ON DWG No. D-3951-D01.



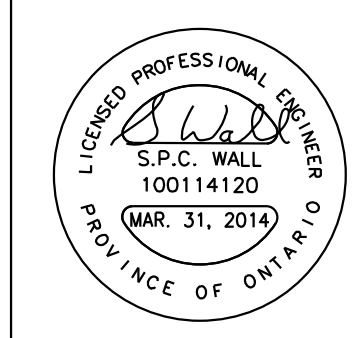
EXISTING UNDER GROUND TUNNEL
 SUPPLY LOCATION: PANEL 'EL1'

EXISTING 00 30 - 120/240V, 200A, 1PH, 3W

LOAD TABLE										
DESCRIPTION	LOAD (W)	PH	CCT No.	BKR (A)	EX.	BKR (A)	CCT No.	PH	LOAD (W)	DESCRIPTION
EX.	-	RED	1	EX.	EX.	2	RED	-	-	EX.
EX.	-	BLK	3	EX.	EX.	4	BLK	-	-	EX.
EX.	-	RED	5	EX.	EX.	6	RED	-	-	EX.
EX.	-	BLK	7	EX.	EX.	8	BLK	-	-	EX.
EX.	-	RED	9	EX.	EX.	10	RED	-	-	EX.
EX.	-	BLK	11	EX.	15	12	BLK	840	-	P1, P3, P5, P7
EX.	-	RED	13	EX.	15	14	RED	630	-	P2, P4, P6
EX.	-	BLK	15	EX.	EX.	16	BLK	-	-	EX.
EX.	-	RED	17	EX.	EX.	18	RED	-	-	EX.
EX.	-	BLK	19	EX.	EX.	20	BLK	-	-	EX.
TOTAL LTG PH-RED					-					TOTAL LTG PH-BLACK
TOTAL LOAD (W)										-

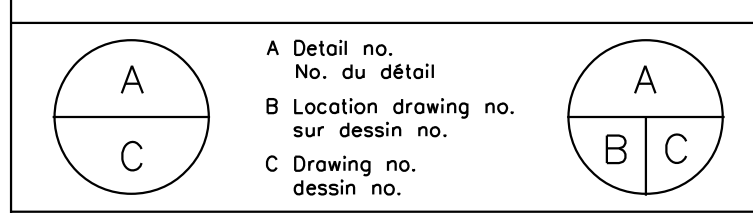
ELECTRICAL EQUIPMENT SUMMARY

POLE NUMBER	STATION	OFFSET	REMARKS
P1	20+165	3.2m FROM E/P	GROUND ROD
P2	20+211	3.2m FROM E/P	-
P3	20+268	3.2m FROM E/P	-
P4	20+322	3.2m FROM E/P	-
P5	20+370	3.2m FROM E/P	-
P6	20+419	3.2m FROM E/P	-
P7	20+467	4.0m FROM E/P	GROUND ROD
HH1	20+363	3.2m FROM E/P	-



No.	Description	By	Date (dd/mm/yy)
0	ISSUED FOR TENDER	S.P.W.	31/03/14

- Verify all dimensions and site conditions and be responsible for same
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité



project: UPLANDS CAMPUS-RESEARCH ROAD REHABILITATION

drawing: ROADWAY ILLUMINATION

designed	conçu	date	date
SP.W.		MARCH 2014	
drawn	dessiné	scale	échelle
DM.		FULL SIZE H500	HALF SIZE H000
checked	vérifié	sheet	feuille
MT.		E1 of/de	E2
approved	approuvé	W.O.no.	D.T.no.
SP.W.		C757-SITE	
dwg.no.	dessin no.		
D-3951-N01			

Drawing File: S:\07052014\314002200 - NRCC - Uplands Campus Phase 2\E344002-N01.dgn
 Plot Time: 8:59:42 AM
 CADD Operator: D. WALLARI

FOURTH AVENUE

THIRD AVENUE

SECOND AVENUE

FIRST AVENUE

RESEARCH ROAD

D-3951-N01

MODIFIED BY
 MMM GROUP LIMITED
 MARCH 2014

CONCRETE FOOTING FOR BASE MOUNTED LIGHTING AND SIGNAL POLES

POLE LENGTH	BURIAL DEPTH	ROD LENGTH	NO. OF TIES	NO. OF 10M TIES	BOLT CIRCLE DIA FOR METAL POLES
m	m	m	c/c	c/c	Aluminum
8.5	2.45	2.30	250	3	305

NOTES:

- For anchorage assembly see OPSD 2215.02M.
- Minimum of two sleeves required for each concrete footing. Three sleeves as specified.
- Top of footing shall be installed at 40mm ±15mm above finished grade in paved or concrete areas and 75mm ±25mm above finished grade in earth or granular areas.
- Plywood template set level. Remove to finish concrete after initial set.

A. All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING
 JULY 2008 Rev
 MODIFIED TABLE
 OPSD-2200.01M

MODIFIED BY
 MMM GROUP LIMITED
 MARCH 2014

ANCHORAGE ASSEMBLY

ASSEMBLY DIMENSIONS				WOOD TEMPLATE DIMENSIONS			
STUD DIA	BOLT CIRCLE DIA	STUD DISTANCE	ANCHORAGE DEPTH	LENGTH	WIDTH	HOLE DIA	
A mm	A mm	B mm	C mm	mm	mm	1 and 3	2
25.4mm (1")	305	216	457	1000	400	297	205

INSTRUCTIONS:

- Do not remove studs from threaded ferrules.
- Place anchorage in footing with wood template over formwork.
- Tie anchorage to steel in footing.
- Tie ducts to anchorage.
- Level anchorage in all directions with a carpenter's level and secure in the level position prior to pouring concrete to the top of the formwork.
- When concrete has achieved initial set remove nuts, washers, and wood template and finish top of concrete.
- Replace nuts and washers and hand tighten.

NOTES:

- J struts not required in assembly with bolt circle diameter less than 406mm.
- Studs shall be factory set in ferrule with preapplied thread locking compound.
- When frangible base is required, studs lengths shall be factory set to suit the frangible base.
- Assembly nuts shall be shipped hand tight only.
- Instruction sticker shall be attached on top face of the wood template.

A The welds are to develop the strength of the struts.
 B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING
 Nov 2010 Rev 3
 MODIFIED TABLE
 OPSD 2215.02M

DETAIL I - BASE MOUNTED ILLUMINATION POLE

N.T.S.

ELECTRICAL HANDHOLE PRECAST CONCRETE WITH COVER

460mm DIA

NOTES:

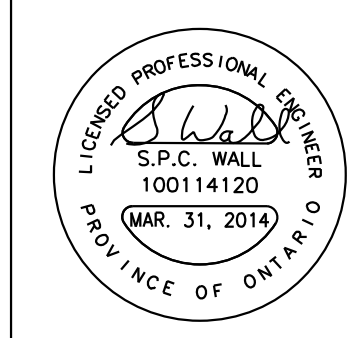
- For installation of ducts see OPSD 2123.03.
- Cover shall be retained with 2-12mm dia x 20mm long stainless steel hex head machine bolts that shall be flush with top of cover when fastened.
- Frame shall be attached using 3-10mm dia x 38mm long machine bolts anchored in concrete wall.
- One ground lug for #6 AWG stranded copper shall be attached to one frame bolt.

A For general installation see OPSD 2117.02.
 B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING
 Nov 2009 Rev 2
 OPSD 2112.02

DETAIL II - CONDUIT CONNECTION AT POLE BASE

N.T.S.



No.	Description	By	Date (dd/mm/yy)
0	ISSUED FOR TENDER	S.P.W.	31/03/14

Verify all dimensions and site conditions and be responsible for same
 Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité

A	A Detail no. No. du détail	A
B	B Location drawing no. sur dessin no.	B
C	C Drawing no. dessin no.	C

project
UPLANDS CAMPUS-RESEARCH ROAD REHABILITATION
 projet

drawing
ELECTRICAL DETAIL - I
 dessin

designed	conçu	date	MARCH 2014
drawn	dessiné	scale	N.T.S.
checked	vérifié	sheet	E2 of/de E2
approved	approuvé	W.O.no.	D.T.no.
			C757-SITE
dwg.no.		dessin no.	
			D-3951-D01