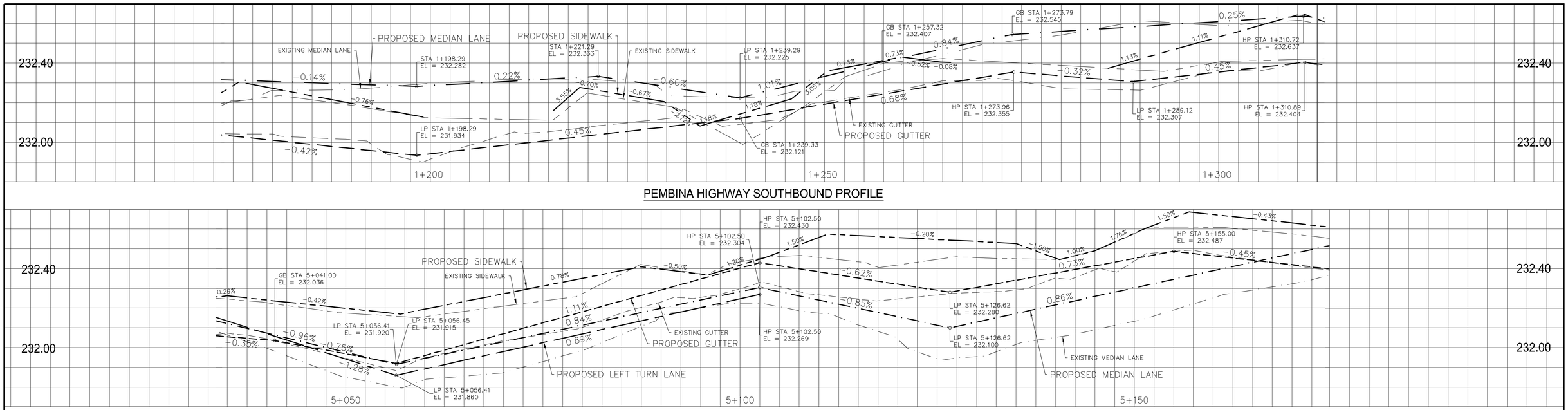
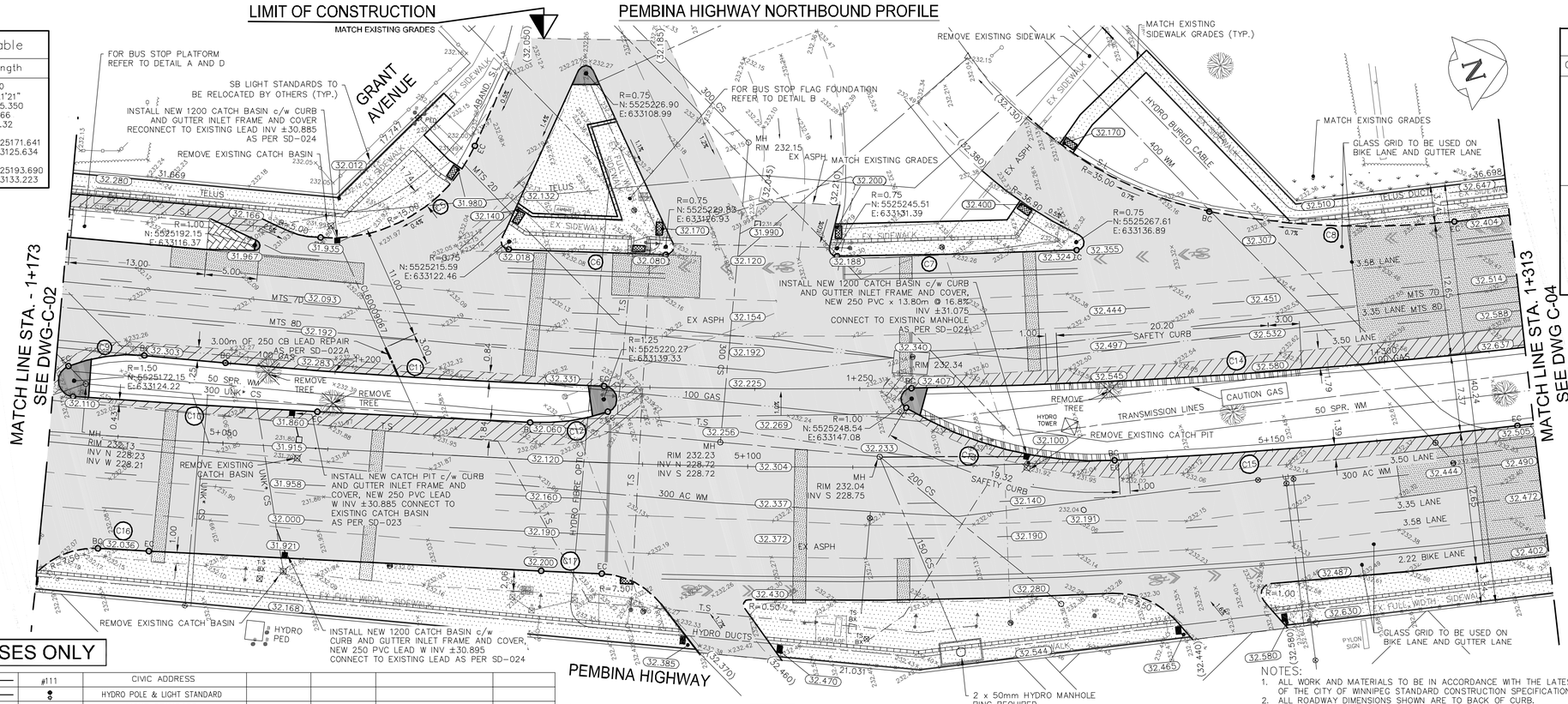


Curve Table			Curve Table		
Curve #		Length	Curve #		Length
C5	Δ	69°22'01"	C10	Δ	1°21'21"
	R	15.000		R	985.350
	T	10.38		T	11.66
	L	18.16		L	23.32
	BC	5525198.398 633117.325		BC	5525171.641 633125.634
	EC	5525214.865 633112.822		EC	5525193.690 633133.223
C6	Δ	1°27'29"			
	R	587.350			
	T	7.47			
	L	14.95			
	BC	5525215.352 633123.173			
	EC	5525229.612 633127.645			
C7	Δ	2°13'30"			
	R	587.350			
	T	11.41			
	L	22.81			
	BC	5525245.314 633132.114			
	EC	5525267.445 633137.623			
C8	Δ	16°47'15"			
	R	80.000			
	T	11.80			
	L	23.44			
	BC	5525280.580 633137.452			
	EC	5525302.826 633144.569			
C9	Δ	26°22'27"			
	R	16.000			
	T	3.75			
	L	7.37			
	BC	5525179.234 633123.679			
	EC	5525171.996 633122.729			

Curve Table			Curve Table		
Curve #		Length	Curve #		Length
C11	Δ	3°26'53"	C13	Δ	33°59'06"
	R	600.000		R	35.000
	T	18.06		T	10.70
	L	36.11		L	20.76
	BC	5525186.490 633126.415		BC	5525247.815 633147.767
	EC	5525220.638 633138.134		EC	5525265.609 633157.861
C12	Δ	21°30'44"	C14	Δ	5°55'50"
	R	20.000		R	600.000
	T	3.80		T	31.08
	L	7.51		L	62.10
	BC	5525212.938 633139.594		BC	5525248.790 633146.111
	EC	5525220.338 633140.576		EC	5525309.630 633158.442
			C15	Δ	4°05'03"
				R	540.000
				T	19.25
				L	38.49
				BC	5525265.609 633157.861
				EC	5525303.445 633164.895
			C16	Δ	0°16'41"
				R	1000.000
				T	2.43
				L	4.85
				BC	5525170.083 633140.196
				EC	5525174.686 633141.732
			C17	Δ	0°36'07"
				R	550.000
				T	2.89
				L	5.78
				BC	5525210.187 633153.484
				EC	5525215.682 633155.271



FOR TENDER PURPOSES ONLY

	WATER MAIN		#111	CIVIC ADDRESS				
	LAND DRAINAGE SEWER			HYDRO POLE & LIGHT STANDARD				
	WASTE WATER SEWER			LIGHT STANDARD				
	HYDRO		HP	HYDRO POLE				
	M.T.S.			CURB RAMP				
	GAS			DETECTABLE WARNING SURFACE TILE c/w RAMP				
	SIGNALS			EDGE OF SIDEWALK				
○	MANHOLE	●		PROPERTY LINE				
□	CATCH BASIN	■		EDGE OF ASPHALT				
△	CURB INLET	▼		MODIFIED BARRIER CURB				
	UTILITIES ADJUSTED	△ □ ○		BARRIER CURB				
⌋	PLUG	⌋		BARRIER CURB WITH SPLASH STRIP			LEFT TURN LANE	
✧	HYDRANT	✦	⟷	TRAFFIC SIGNAL			WEST MEDIAN GUTTER	
⊗	VALVE	⊗		SIDEWALK			EAST MEDIAN GUTTER	
♂	CURB STOP	♂		CONCRETE SLAB REPAIR			WEST SIDEWALK	
230.99	GROUND GRADE			ASPHALT			EAST SIDEWALK	
	PAVEMENT GRADE	31.000		CONCRETE			ROADWAY CENTRE LINE	
	LOT GRADE	31.000		INTERLOCKING PAVING STONES			WEST GUTTER	
⟶	ANCHOR			BULLNOSE			EAST GUTTER	
EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED

FOR SECTIONS AND DETAILS REFER TO C-20

NOTE:
These design documents are prepared solely for the use by the party with whom the design professional has entered into a contract and there are no representations of any kind made by the design professional to any party with whom the design professional has not entered into a contract.

LOCATIONS APPROVED UNDERGROUND STRUCTURES

SIGNED BY: _____ DATE _____

SUPV U/G STRUCTURES

LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT CONFIRMATION OF EXISTANCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING

G.B.M. - BENCHMARK LOCATION
ELEV. 232.929 LOCATED ON "O" OF OPEN ON HYDRANT, SOUTHEAST CORNER OF PEMBINA HIGHWAY AND DALY STREET NORTH

NO.	REVISIONS	DATE	BY
3	ISSUED FOR TENDER	16.MAY.16	VM
2	ISSUED TO UNDERGROUND STRUCTRES	16.MAY.16	VM
1	ISSUED FOR CLIENT REVIEW	28.APR.16	VM

NOTES:
1. ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE LATEST REVISION OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
2. ALL ROADWAY DIMENSIONS SHOWN ARE TO BACK OF CURB.
3. ALL LIGHT STANDARDS AND SIGNALS TO BE RELOCATED OR REMOVED AS REQUIRED. (BY OTHERS)
4. CURB 150MM REVEAL UNLESS OTHERWISE SHOWN.
5. ADD 200.00 TO ALL ELEVATIONS TO OBTAIN GEODETIC ELEVATIONS.
6. ADDITIONAL SIDEWALK AND CURB RENEWALS, JOINT AND SLAB REPAIRS WILL BE IDENTIFIED PRIOR TO COMMENCING WORK ON THE PROJECT.
7. ALL RADII TO BE MODIFIED BARRIER CURB AT APPROACHES AND INTERSECTIONS.
8. REGRADE MEDIAN BOULEVARD TO NEW GRADE AS REQUIRED.

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

APEGM
Certificate of Authorization
MMM Group Limited
No. 4531

MMM GROUP
MMM Group Limited
Suite 111 - 93 Lombard Ave
Winnipeg, MB R3B 3B1
t. 204.943.3178
f. 204.943.4948
www.mmmgroupltd.com

DESIGNED BY	SQ/JP	CHECKED BY	VM/TP
DRAWN BY	HK/LT	APPROVED BY	VM
HOR. SCALE	1:250	RELEASED FOR CONSTRUCTION	
VERTICAL	1:10		
DATE	MARCH 2016	DATE	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
V.M. MAROTI
Member 30809
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT ACAD DWG. NO.
5516006-C-03

Winnipeg

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

PEMBINA HIGHWAY
FROM CARTER AVENUE TO OSBORNE STREET

PAVEMENT REHABILITATION
SOUTHBOUND STA. 1+173 - STA. 1+313

CITY DRAWING NUMBER

SHEET 03 OF 27

BID NO.
386-2016

May 16, 2016 - 11:41am
P:\5516001-5518099\5518006 - Pembina Hwy Pavement, Rehab & Bike Lane\MMM Drawings\Construction Drawings\5516006 C01-C12 Rehabilitation Issued for Tender 20160516.dwg - tab: STA. 1+200.00 - STA. 1+340.00