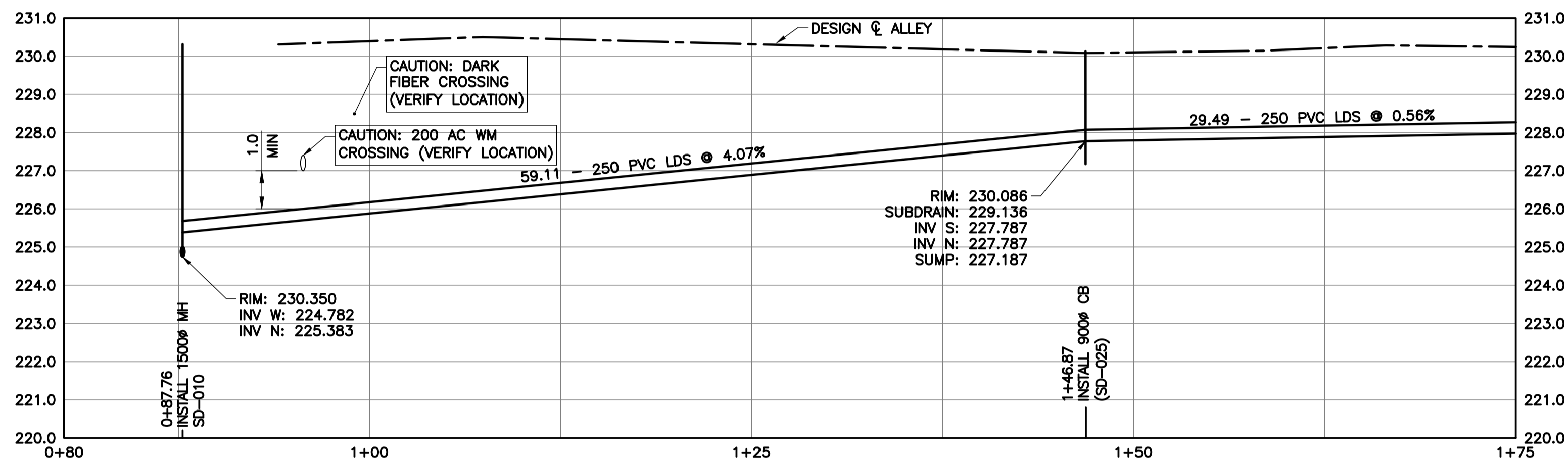
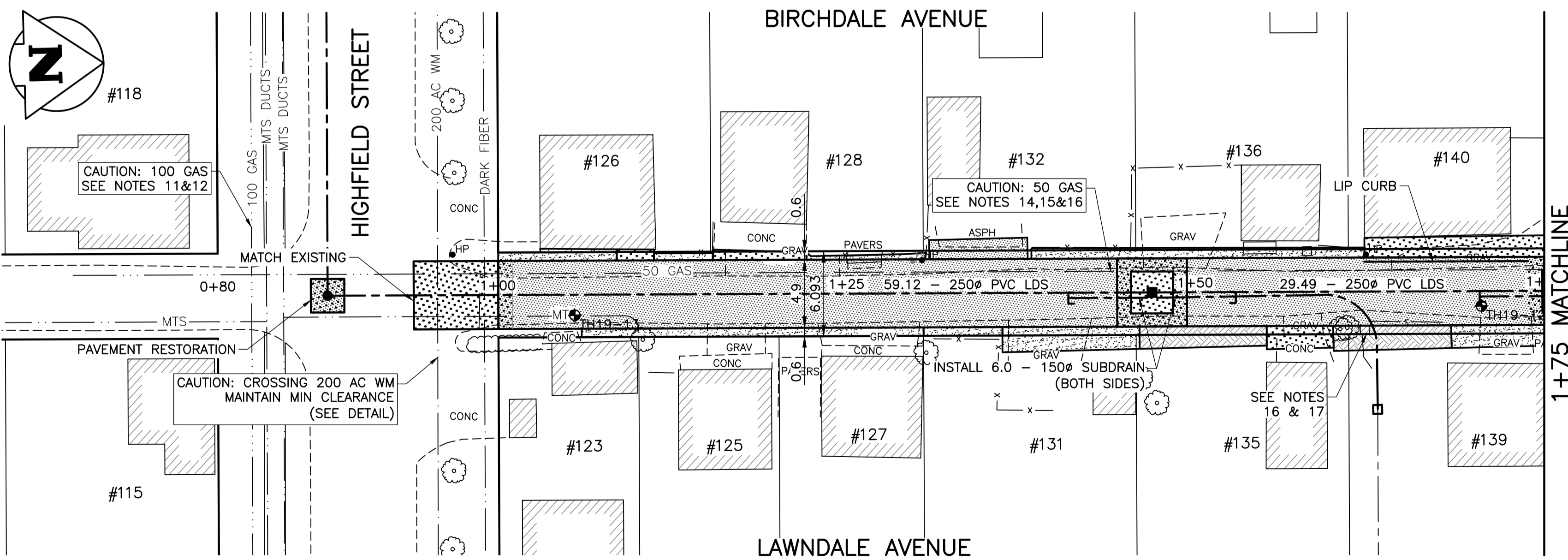


**ALLEY PAVEMENT PROFILE**  
SCALE: 1:250 HOR: 1:10 VER



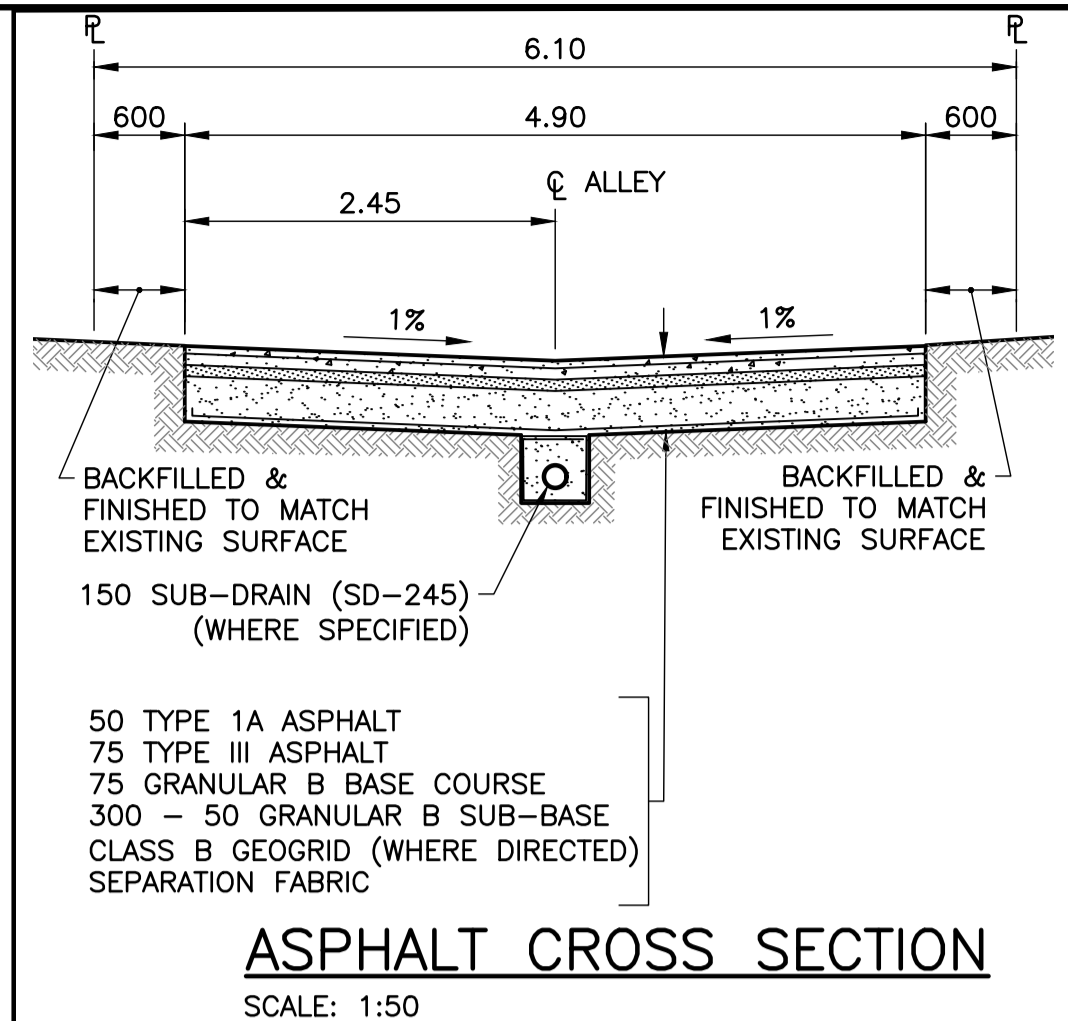
**SEWER PROFILE**  
SCALE: 1:250 HOR: 1:100 VER



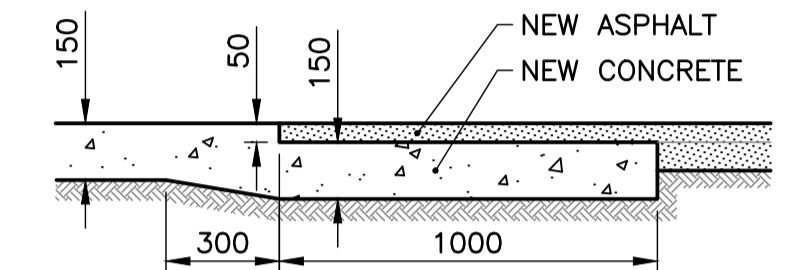
**ALLEY PAVEMENT PLAN**  
SCALE: 1:250

**NOTES**

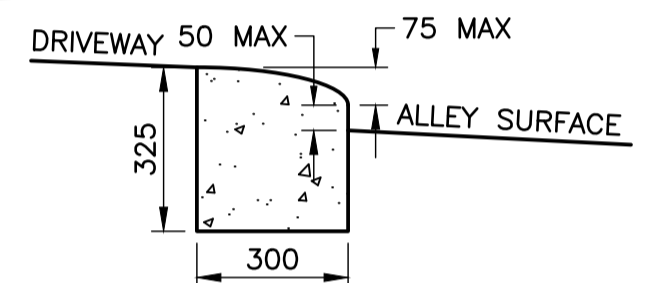
- STATION CHAINAGE IS BASED ON CENTERLINE OF ALLEY RIGHT OF WAY.
- REGRADE EXISTING PRIVATE SIDEWALKS, APPROACHES & REAR OR SIDEYARDS AS DIRECTED.
- INSTALLATION OF LIP CURBS AND THEIR EXTENTS TO BE DETERMINED BY THE CONTRACT ADMINISTRATOR ON SITE.
- CONCRETE APPROACH RENEWALS TO BE REINFORCED IN ACCORDANCE WITH CW-3230, CW-3310, & SD-237.
- INSTALL MODIFIED BARRIER CURB AT ALL ALLEY APPROACH RADII (SD-203B).
- ALL EXISTING TREES TO BE PROTECTED THROUGHOUT CONSTRUCTION UNLESS OTHERWISE NOTED.
- CONTACT THE CITY OF WINNIPEG GEOMATICS BRANCH IN ADVANCE OF CONSTRUCTION TO COORDINATE MONUMENT PROTECTION SERVICES (204)-918-1360.
- CONFIRM THE LOCATION OF ALL UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
- LIGHT STANDARDS AND HYDRO POLES MAY REQUIRE TEMPORARY SUPPORT DURING CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.
- ISOLATE ALL POLES, BASES AND PILES WITHIN ALLEY RIGHT OF WAY (SD-228C).
- NO VIBRATORY COMPACTION PERMITTED WITHIN 1.0M OF GAS MAINS OR DUCT BANKS.
- NO WORKS, INCLUDING CONCRETE CUTTING OR BREAKING, TO BE UNDERTAKEN NEAR GAS LINES OR DUCT BANKS UNTIL DEPTH OF COVER IS DETERMINED AND A MANITOBA HYDRO SAFETY WATCH REPRESENTATIVE IS ON SITE.
- PROVIDE SEWER INSPECTION FOR ALL NEW SEWER PIPE INSTALLATION, POINT REPAIRS, & ABANDONMENTS.
- REMOVE CB, CATCH PIT AND CULVERT. PLUG EXISTING SEWER SERVICE AT BOTH ENDS IN ACCORDANCE WITH CW2130.
- EXTEND SUBDRAIN INTO PRIVATE PROPERTY AND PLACE RIPRAP, AS DIRECTED BY THE CONTRACT ADMINISTRATOR.



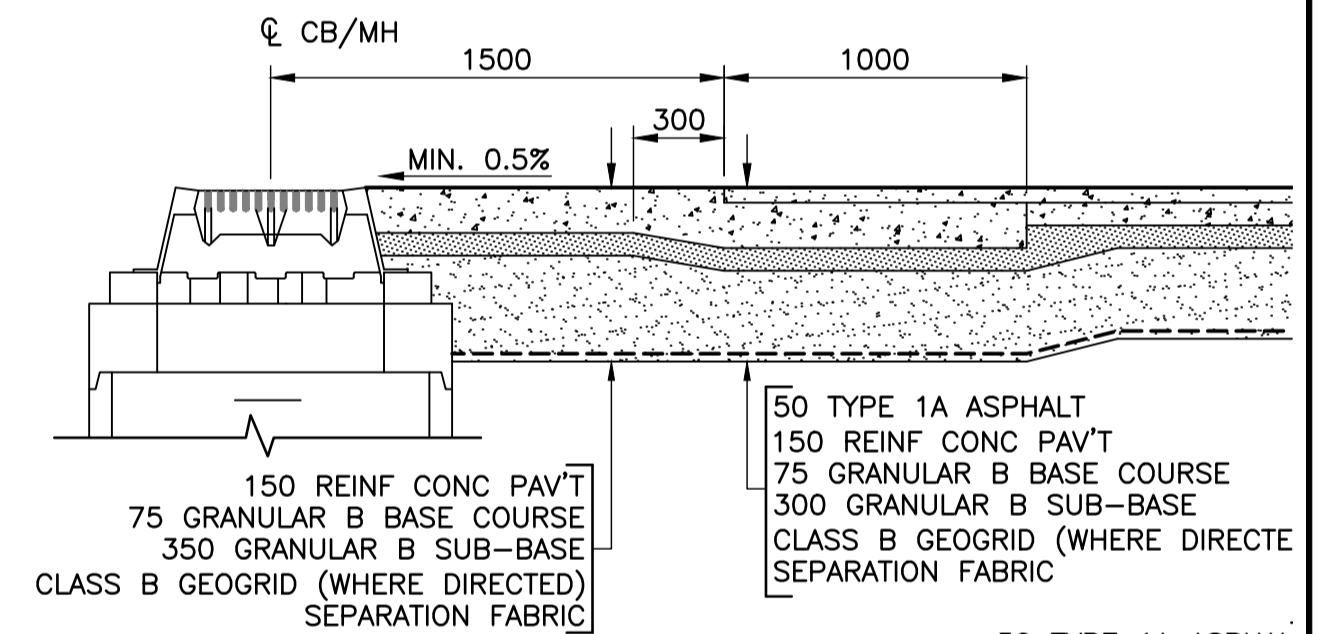
**ASPHALT CROSS SECTION**  
SCALE: 1:50



**TRANSITION SLAB DETAIL**  
SCALE: 1:20



**LIP CURB DETAIL**  
SCALE: 1:15



**TYPICAL CONCRETE APRON TIE-IN DETAIL**  
SCALE: 1:25

**CAUTION: WATERMAIN OR SEWERMAIN CROSSING**

A MINIMUM CLEARANCE OF 1.0 METER MUST BE PROVIDED BETWEEN THE UNDERSIDE OF ANY EXISTING WATERMAIN OR SEWERMAIN AND THE TOP OF THE PROPOSED WORKS. THIS INSTALLATION BY TRENCHLESS METHOD ONLY.

EXISTING WATERMAIN OR SEWERMAIN  
1 METER MINIMUM  
PROPOSED WORKS

A MINIMUM CLEARANCE OF 0.5 METER MUST BE PROVIDED BETWEEN THE UNDERSIDE OF THE PROPOSED WORKS AND THE TOP OF ANY EXISTING WATERMAIN OR SEWERMAIN

PROPOSED WORKS  
0.5 METERS MINIMUM  
EXISTING WATERMAIN OR SEWERMAIN

A MINIMUM LATERAL CLEARANCE OF 2.0 METERS MUST BE PROVIDED BETWEEN ANY EXISTING WATERMAIN OR SEWERMAIN PIPE AND THE PROPOSED WORKS

PROPOSED WORKS  
2.0 METERS MINIMUM  
EXISTING WATERMAIN OR SEWERMAIN

A SHAFT MUST BE EXCAVATED BY SOFT DIG METHODS 4.0 METERS FROM THE CENTRELINE OF THE EXISTING WATERMAIN OR SEWERMAIN PIPE TO CONFIRM THE ALIGNMENT AND ELEVATION OF THE DRILLING ROD BEFORE IT CROSSES OVER OR UNDER THE EXISTING WATERMAIN OR SEWERMAIN PIPE. THIS CONFIRMATION MUST BE WITNESSED BY A CITY REPRESENTATIVE.

**PROPERTY LIMITS DELINEATION**

DELINEATION OF PROPERTY LIMITS AS SHOWN ON THIS DWG DOES NOT REPRESENT A "LEGAL SURVEY". KGS GROUP MAKES NO REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF PROPERTY LIMITS DELINEATED ON THIS DWG, NOR ON THE DIMENSIONAL ACCURACY OF DWG FEATURES RELATIVE TO THOSE PROPERTY LIMITS.

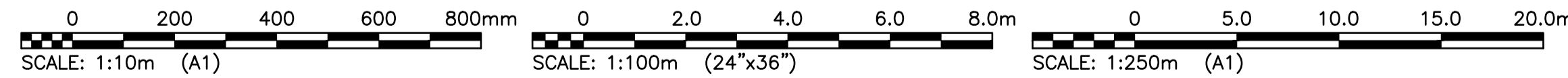
**PRELIMINARY**  
NOT TO BE USED FOR CONSTRUCTION

**METRIC**  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

**ENGINEERS GEOSCIENTISTS MANITOBA**  
Certificate of Authorization  
KGS Group  
No. 245

**WARNING**

- NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
- TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
- SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.



300 LDS	LAND DRAINAGE SEWER	300 LDS	-x-x-	FENCE				
250 WWS	WASTE WATER SEWER	250 WWS	+	TEST HOLE				
	GAS		+	GUY WIRE				
	HYDRO		+	LIGHT STANDARD				
	M.T.S.		+	BACK OF CURB				
150 WM	WATERMAIN	150 WM	+	CONCRETE	X-X	Q PROFILE	X-X	
	HYDRANT		+	ASPHALT	□	EDGE OF ALLEY LHS	□	
	VALVE		+	SIDEWALK	□	EDGE OF ALLEY RHS	□	
	MANHOLE		+	PROPERTY LINE	□	N/W LANE R	□	
	CATCH BASIN		+	SURVEY BAR	+	S/E MEDIAN R	+	
	CURB INLET		+	GEODETIC BENCHMARK	+	GARAGE/PARKING SLAB	+	
	POLES		+	ELEVATION	TTTT	WINDOW/DOOR SILL	+	
EXISTING	LEGEND-PLAN	PROPOSED		LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED

**LOCATION APPROVED UNDERGROUND STRUCTURES**

B.M. KGS\_BASE  
ELEV. 249.221

DESIGNED BY: JB  
CHECKED BY: CR

DRAWN BY: IT  
APPROVED BY: CR

HOR. SCALE: 1:250  
VERTICAL: VARIES

RELEASED FOR CONSTRUCTION: DATE

NO. REVISIONS: DATE BY

2019-02-15

**KGS GROUP**

ENGINEER'S SEAL  
PROVINCE OF MANITOBA  
Asaad Roscow  
REGISTERED PROFESSIONAL ENGINEER  
14869  
2020-03-18

CONSULTANT DRAWING NO. **C801**

**THE CITY OF WINNIPEG**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

PROJECT TITLE  
**2019 ALLEY RENEWALS AND LOCAL IMPROVEMENT ALLEYS**  
BIRCHDALE AVE / LAWNDALE AVE  
HIGHFIELD ST TO KIRKDALE ST  
STA. 0+86.58 TO STA. 1+75

SHEET **22** OF **24**

COMPUTER FILE NAME  
**18-0107-016\_ALLEYS**

CITY DRAWING NUMBER

File: B:\Projects\2018\18-0107-016\Drawings\18-0107-016\_ALLEYS - Tab: C801 Plotted By: gloewen 20/03/18 [Wed 8:23am]  
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