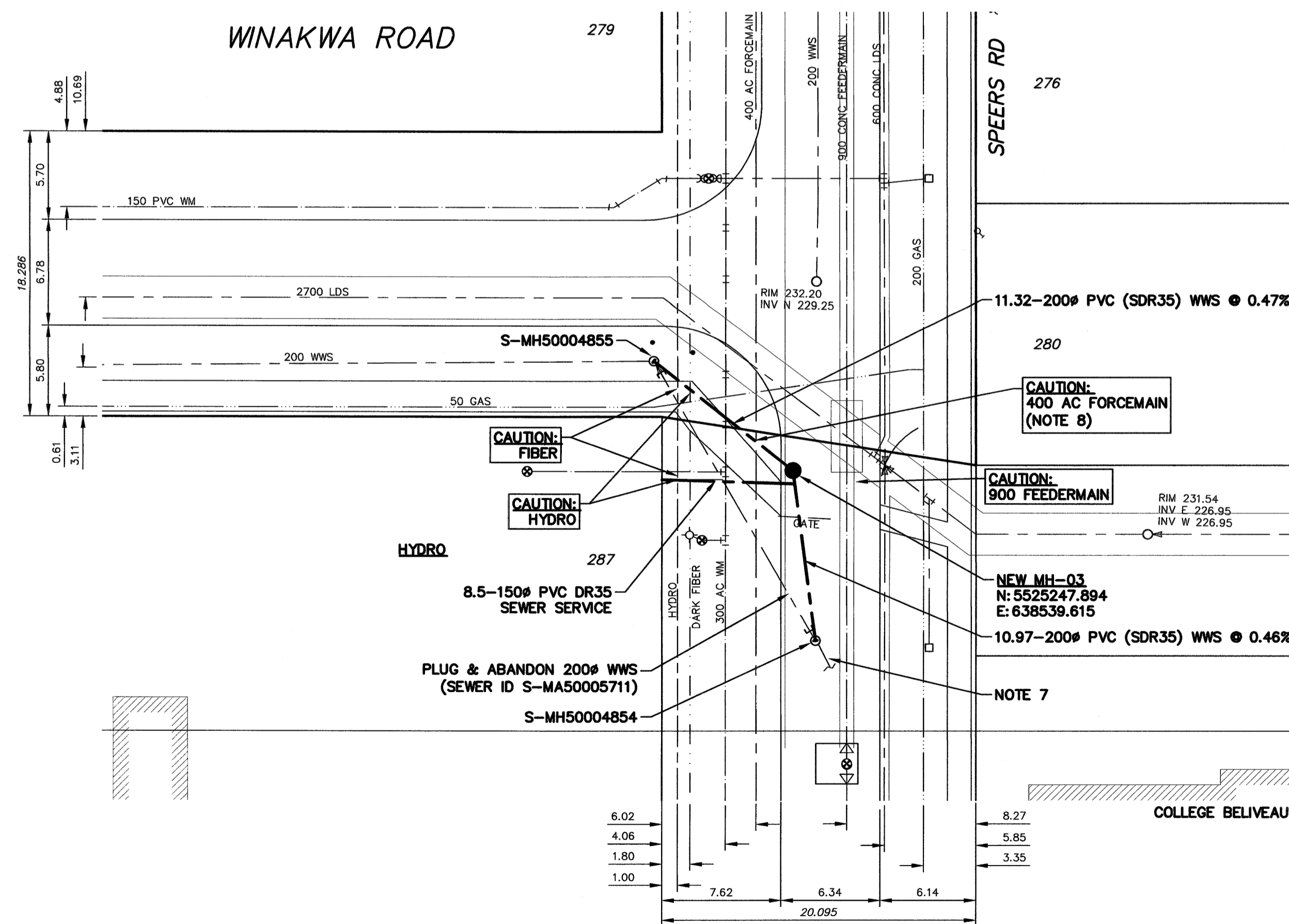
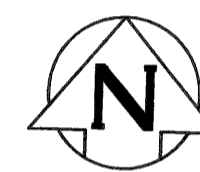


NOTE: CHAINAGES SHOWN ARE ALONG SOUTH R WINAKWA RD
STA 1+00 IS AT WEST R SPEERS RD



NOTE: WHEN WORKING NEAR LARGE DIAMETER WATER MAIN

- CONTACT THE CITY OF WINNIPEG WMO CONSTRUCTION SERVICES COORDINATOR (DUANE BAKER, C.E.T.) AT 204-986-4289, SEVEN (7) DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR AN INSPECTION.
- PRIOR TO ANY CONSTRUCTION, THE LARGE WATER MAIN MUST BE EXPOSED BY A SOFT DIG METHOD SO AS TO CONFIRM DEPTH AND LOCATION.
- A MINIMUM CLEARANCE OF 1.0 MUST BE PROVIDED BETWEEN THE UNDERSIDE OF ANY EXISTING LARGE WATER MAIN AND THE TOP OF THE PROPOSED WORKS. THIS INSTALLATION BY TRENCHLESS METHOD ONLY.



- A MINIMUM CLEARANCE OF 0.5 MUST BE PROVIDED BETWEEN THE UNDERSIDE OF THE PROPOSED WORKS AND THE TOP OF ANY EXISTING LARGE WATER MAIN BY TRENCHLESS OR OPEN TRENCH.
- A SHAFT MUST BE EXCAVATED BY SOFT DIG METHODS 4.0 FROM THE CENTRELINE OF THE LARGE WATER MAIN TO CONFIRM THE ALIGNMENT AND ELEVATION OF THE DRILLING ROD BEFORE IT CROSSES OVER OR UNDER THE LARGE WATER MAIN. THIS CONFIRMATION MUST BE WITNESSED BY A CITY REPRESENTATIVE.
- INSTALLATION EQUIPMENT FOR PROPOSED WORKS SHALL NOT CROSS OR TRAVEL ALONG EITHER SIDE OF THE LARGE DIAMETER WATER MAIN WITHIN A LATERAL DISTANCE OF 5.0 METERS FROM THE CENTERLINE OF THE LARGE DIAMETER WATER MAIN.
- DO NOT OPERATE VIBRATORY EQUIPMENT OVER OR WITHIN 3.0 METERS OF THE LARGE DIAMETER WATER MAIN CENTERLINE.
- GRANULAR MATERIAL, CONSTRUCTION MATERIAL, SOIL OR OTHER MATERIAL SHALL NOT BE STOCKPILED ON THE LARGE DIAMETER WATER MAIN OR WITHIN 5 METERS OF THE LARGE DIAMETER WATER MAIN CENTERLINE.
- CONSTRUCTION PRACTICES SHALL NOT SUBJECT THE LARGE DIAMETER WATER MAIN TO ASYMMETRICAL LOADING AT ANY TIME.
- CONSTRUCTION PRACTICES OR PROCEDURES NEAR THE LARGE DIAMETER WATER MAIN SHALL NOT IMPART EXCESSIVE VIBRATION LOADS AND CAUSE SETTLEMENT OF THE SUB-GRADE BELOW THE WATER MAIN.
- FURTHER TO CW-2030-R7, ONLY SMOOTH EDGED EXCAVATION BUCKETS, SOFT EXCAVATION OR HAND EXCAVATION SHALL BE USED FOR EXCAVATION OVER THE LARGE DIAMETER WATER MAIN.
- CONCRETE REMOVAL WITHIN 3 METERS HORIZONTALLY OF THE LARGE DIAMETER WATER MAIN SHALL BE COMPLETED BY SAW-CUTTING AND REMOVAL, OR USE OF HAND HELD JACKHAMMERS. USE OF MACHINE MOUNTED CONCRETE BREAKERS SHALL NOT BE PERMITTED.
- THE CONTRACTOR SHALL ENSURE THAT ALL WORK CREW MEMBERS UNDERSTAND AND OBSERVE THE REQUIREMENTS ABOVE. PRIOR TO COMMENCEMENT OF ON-SITE WORK, THE CONTRACTOR SHALL CONDUCT AN ORIENTATION MEETING WITH THE CONSULTANT, ALL SUPERINTENDENTS, FOREMEN AND HEAVY EQUIPMENT OPERATORS TO MAKE ALL WORKERS ON SITE FULLY COGNIZANT OF THE LIMITATIONS OF ALTERED LOADING ON LARGE DIAMETER WATER MAIN, THE RAMIFICATIONS OF INADVERTENT DAMAGE TO THE LARGE DIAMETER WATER MAIN AND THE CONSTRAINTS ASSOCIATED WITH WORK IN CLOSE PROXIMITY TO THE LARGE DIAMETER WATER MAIN.

SEWER JUNCTION INFORMATION FROM SEWER VIDEO INSPECTION		
SEWER ID S-MA50005711		
DISTANCE FROM MH ID S-MH50004854		
DISTANCE	DIAMETER	CLOCK
11.90	150	10

NOTES:

- ALL PIPE SHALL HAVE CLASS B - TYPE 2 BEDDING.
- INSTALL SEWER BY TRENCHLESS METHODS.
- EXISTING SANITARY SERVICE CONNECTION LOCATIONS AT PROPERTY LINE ARE APPROXIMATE ONLY. CONFIRM THE LOCATION OF ALL SEWER SERVICES.
- BACKFILL UNDER PAVEMENT, IN SIDEWALKS, & WITHIN 1.0 OF PAVEMENT TO BE CLASS 3.
- BACKFILL IN BOULEVARD TO BE CLASS 5.
- INSTALL SEWER SERVICE RISERS TO ELEVATION WHERE MINIMUM SLOPE OF 1% IS MAINTAINED FOR ALL SERVICES.
- CONTRACTOR TO CONFIRM ALIGNMENT OF EXISTING SEWER UPSTREAM OF MANHOLE S-MH50004854.
- SOFT DIG AT THE CROSSING WITH THE 400 AC FORCEMAIN PRIOR TO ANY EXCAVATION.

FOR INDEX SEE
DWG D-12503

ENGINEERS
GEOLOGISTS
MANITOBA

Certificate of Authorization
KGS Group
No. 245



METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

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.

WARNING
IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:
1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
SEE PROVINCIAL REGULATION 21072 FOR DETAILS

LOCATION APPROVED UNDERGROUND STRUCTURES
SUPV. U/G STRUCTURES COMMITTEE DATE
NOTE:
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 EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M.	ELEV.	NO.	REVISIONS	DATE	BY
0			ISSUED FOR TENDER	20/04/08	(MJD)

KGS GROUP

DESIGNED BY: MID
CHECKED BY: [Signature]
DRAWN BY: GEL
APPROVED BY: [Signature]
SCALE: HORIZONTAL 1:250, VERTICAL 1:50
RELEASED FOR CONSTRUCTION: 2020 04 07

ENGINEER'S SEAL
PROVINCE OF MANITOBA
Member
31915
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NUMBER
D-12530

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

2020 SEWER MAIN RENEWALS
CONTRACT XX
WINAKWA ROAD
MH AT SPEERS ROAD CENTRELINE TO
MH AT SPEERS ROAD WEST PROPERTY

SHEET 28 OF 29
CITY DRAWING NUMBER
D-12530