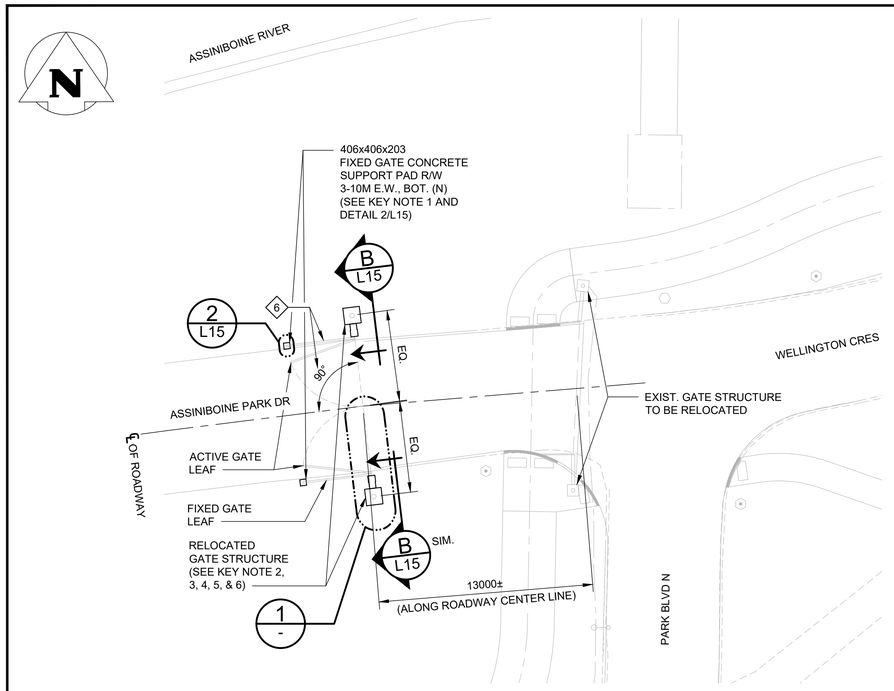
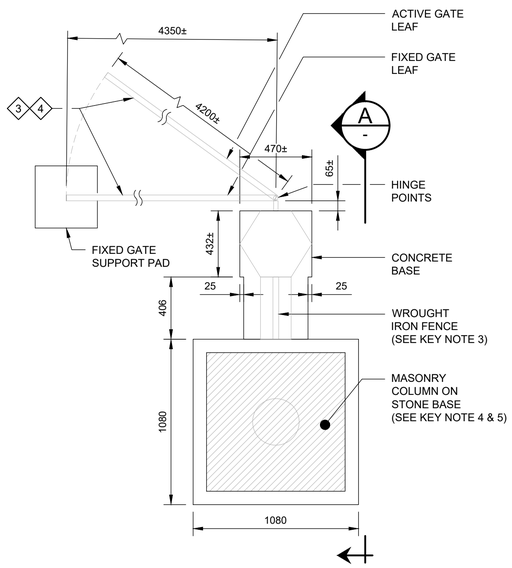


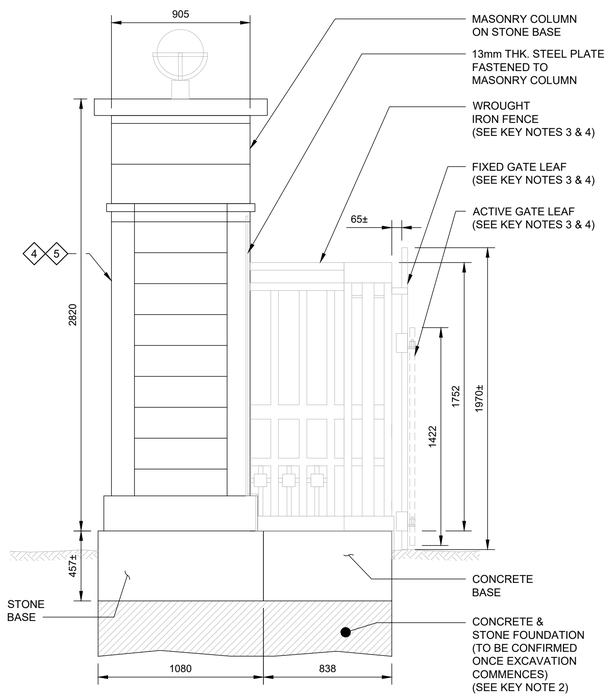
SITE PLAN - GATE RELOCATION

SCALE:1:200



1 / - PLAN - EXISTING GATE ASSEMBLY (TYP.)

SCALE:1:20



A / - SECTION - EXISTING STRUCTURE/DEMOLITION (TYP.)

SCALE:1:20

KEY NOTES:

1. NEW FIXED GATE CONCRETE SUPPORT PADS TO BE PLACED ON 150 mm THICK LAYER OF 19 mm COMPACTED GRANULAR.
2. GATE COLUMN AND FENCE BASE FOUNDATION IS NOT KNOWN AT THE TIME OF DRAWINGS PREPARATION. THE FOUNDATION TO BE CONFIRMED ONCE EXCAVATION WORK COMMENCES. CONTRACTOR TO ALLOW IN THEIR BID WIRECUTTING THE COLUMN BASE BELOW GRADE AND RELOCATING COLUMN TOGETHER WITH THE BASE TO NEW LOCATION. CARE SHOULD BE EXERCISED DURING THE RELOCATION OF EXISTING STRUCTURE IN ORDER TO AVOID ANY DAMAGE. CONTRACTOR TO PROVIDE WRITTEN RELOCATION PLAN FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH THE WORK. ANY EXISTING FOUNDATION AND FENCE BASE CONCRETE TO BE DEMOLISHED TO 300 mm BELOW GRADE. EXCAVATION TO BE BACKFILLED AND SODDED. ANY ELECTRICAL SERVICES TO BE ABANDONED OR RELOCATED AS REQUIRED TO PROVIDE POWER TO GATE COLUMN LIGHT FIXTURES IN NEW LOCATION. CONTRACTOR TO PROVIDE ELECTRICAL SCOPE OF WORK DETAILS TO CONTRACT ADMINISTRATOR FOR REVIEW AND APPROVAL.
3. EXISTING FENCE AND GATES TO BE REMOVED, REPAIRED, MODIFIED AS SHOWN IN DETAILS 1 AND 2 ON SHEET L14, REFINISHED AS PER GATE REFINISHING SPECS AND REINSTALLED IN THE NEW LOCATION. GATE REPAIR INCLUDES REPLACEMENT OF CORRODED COMPONENTS TO MATCH EXISTING, HINGES ETC. FINAL PRODUCT SHALL BE FULLY OPERATIONAL WITH NO DEFECTS VISIBLE FROM FURTHER THAN 1000 mm AWAY.
4. CONTRACTOR IS ENCOURAGED TO CAREFULLY REVIEW THE CONDITION OF EXISTING GATE AND COLUMNS ON SITE PRIOR TO PLACING THE BID. REPOINT ANY WEATHERED/CRACKED MORTAR JOINTS; REPLACE TO MATCH EXISTING ANY CRACKED BRICKWORK/STONEWORK; PATCH ANY UNUSED HOLES ETC.
5. RELOCATE EXISTING POWER LINE FEEDING THE COLUMN LIGHTING TO NEW COLUMN LOCATIONS. RECONNECT RELOCATED LINE TO COLUMNS IN THE NEW LOCATION. LIGHT OPERATION TO BE TESTED IN THE PRESENCE OF CONTRACT ADMINISTRATOR. CONTRACTOR TO PROVIDE ELECTRICAL SCOPE OF WORK DETAILS TO CONTRACT ADMINISTRATOR FOR REVIEW AND APPROVAL.
6. ENSURE THAT GATE IS ORIENTED 90 DEGREES TO ROADWAY CENTERLINE. ENSURE THAT NEW VERTICAL AND HORIZONTAL POSITIONING OF THE GATE ALLOWS FOR PROPER GATE OPERATION.

GENERAL NOTES:

1. THIS STRUCTURE HAS BEEN DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF PART 4 OF THE MANITOBA BUILDING CODE-2011.
2. ALL SPECIFICATIONS AND CODES SPECIFIED SHALL BE THE LATEST REVISION AVAILABLE.
3. SITE VERIFY ALL DIMENSIONS, ELEVATIONS, DETAILS, QUANTITIES AND CONDITIONS PRIOR TO START OF ANY DEMOLITION, CONSTRUCTION OR PREFABRICATION OF ANY STRUCTURAL COMPONENT.
4. EXISTING STRUCTURAL SUPPORTS WHICH INTERFERE WITH NEW WORK SHALL BE RELOCATED UPON APPROVAL BY THE DESIGN ENGINEER.
5. THE CONTRACTOR SHALL ENSURE THAT ALL BURIED SERVICES ARE LOCATED AND MARKED PRIOR TO EXCAVATION.
6. ALL BUILDING SYSTEMS COMPONENTS SHALL BE THE PRODUCTS OF A SINGLE MANUFACTURER UNLESS SPECIFIED OTHERWISE.
7. SHIP, STORE, HANDLE, ERECT, INSTALL, ETC. ALL BUILDING MATERIALS, COMPONENTS, FIXTURES, EQUIPMENT, ETC. AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
8. ALL DEMOLITION, FABRICATION, CONSTRUCTION, ETC. SHALL BE CARRIED OUT IN ACCORDANCE WITH ALL PERTINENT BUILDING CODES, AND LOCAL BYLAWS AND ORDINANCES.
9. EACH TRADE SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE PROTECTION FOR THE EXISTING FACILITY/PROPERTY TO PREVENT PHYSICAL DAMAGE AND LOSS OF VALUE OR USE OF ANY KIND, AS A RESULT OF DEMOLITION, CONSTRUCTION AND RELATED ACTIVITIES.
10. TIME AND DURATION OF ANY NECESSARY DISRUPTION IN THE USE OF ANY ROOM, SPACE, SERVICE, EQUIPMENT, ETC. SHALL BE COORDINATED WITH, AND APPROVED BY THE OWNER AT THE START OF THE PROJECT. PROVIDE OWNER WITH MINIMUM ONE WEEK NOTICE (OR AS REQUIRED) PRIOR TO EACH ACTUAL OCCURRENCE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE OWNER AND THE DESIGN ENGINEER OF ANY PREVIOUSLY UNNOTICED PRE-EXISTING FLAW OR CONDITION THAT MIGHT INCREASE THE SCOPE OF WORK OR COMPROMISE NEW CONSTRUCTION, PRIOR TO THE START OF DEMOLITION AND CONSTRUCTION, OR AS SOON AS IT IS DISCOVERED.
12. DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS.

CONCRETE:

1. CONCRETE MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CSA A23.1-09. SEE BELOW FOR MIX REQUIREMENTS.
2. ADMIXTURES SHALL NOT BE USED UNLESS SPECIFIED HEREIN OR APPROVED BY THE DESIGN ENGINEER. CALCIUM CHLORIDE SHALL NOT BE USED.
3. MIX WATER SHALL BE POTABLE.
4. DESIGN, FABRICATE AND ERECT FORMWORK/SHORING IN ACCORDANCE WITH CAN/CSA-S269.3-M92. ALLOW SUFFICIENT CONCRETE CURING TIME PRIOR TO REMOVAL.
5. PROVIDE ONE SET OF CONCRETE CYLINDERS IN ACCORDANCE W/ CSA A23.1-14 FOR EVERY $50m^3$ OF CONCRETE PLACED FOR EACH TYPE OF CONCRETE PER DAY AND A MINIMUM OF ONE SET PER STRUCTURAL COMPONENT.
6. CONCRETE FINISHING SHALL MEET THE REQUIREMENTS OF CSA A23.1-09.
7. FORM RELEASE AGENT SHALL BE BIODEGRADABLE, NON-STAINING AND NON-VOLATILE.
8. PROVIDE ADEQUATE COLD/HOT WEATHER PROTECTION AS REQUIRED DURING CURING PERIOD.
9. PLACE AND SECURE ALL EMBEDDED ANCHORS, WELD PLATES, SLEEVES, BUCKS, DOWELS, INSERTS, WATERSTOPS, ETC., PRIOR TO PLACING CONCRETE. CO-ORDINATE WITH ALL TRADES FOR EMBEDDING OF ALL OTHER, CONDUIT, SERVICES, BLOCKING, ETC.
10. ALL EXPOSED CORNERS TO HAVE 25mm CHAMFER FILLET UNLESS NOTED.
11. CAST-IN-PLACE ANCHOR BOLTS SHALL MEET REQUIREMENTS OF ASTM F1554-18, GRADE 36.
12. ADHESIVE ANCHORS SHALL BE HILTI HIT-HY200 HAS RODS OR APPROVED EQUAL, UNLESS NOTED. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.
13. THE CONCRETE SUPPLIER SHALL BE CERTIFIED TO MEET THE REQUIREMENTS OF CSA A23.1-09 (R2014).
14. THE CONCRETE SUPPLIER SHALL SUBMIT CONCRETE MIX DATA SUBMISSION FORMS FOR EACH TYPE OF CONCRETE SPECIFIED FOR REVIEW PRIOR TO BATCHING ANY CONCRETE.

CONCRETE MIX DESIGNS:

CONCRETE MIX DESIGN SHALL BE PROPORTIONED TO MEET THE FOLLOWING PERFORMANCE REQUIREMENTS:

C.I.P. PILES & PILE CAPS:

EXPOSURE CLASS	S-2
MIN. 28 DAY COMP. STRENGTH	30 MPa
MIN. 56 DAY COMP. STRENGTH	32 MPa

FOUNDATIONS (C.I.P. CONCRETE PILES):

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DOCUMENTS AND THE PILING SPECIFICATION.
2. FOUNDATIONS SHALL BE CAST-IN-PLACE CONCRETE END-BEARING PILES AS SHOWN ON DRAWINGS.
3. CONCRETE PILES HAVE BEEN DESIGNED FOR AN ASSUMED AVERAGE FACTORED ULS END BEARING VALUE OF 1,380 kPa AND 1,150 SLS AS RECOMMENDED BY KGS GROUP. A GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING DRILLING TO CONFIRM THE ASSUMED END BEARING VALUES.
4. INSTALLATION OF ALL CONCRETE PILES SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA, PRIOR TO PLACEMENT OF CONCRETE.
5. THE PILING CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND SERVICES IN PILING AREA WHETHER SHOWN OR NOT. EXPOSE ALL SERVICES CLOSE TO PILING AS REQUIRED.
6. PILES SHALL NOT BE MORE THAN 50mm OUT OF POSITION LATERALLY AT THE TOP AND NOT MORE THAN 2% OUT OF PLUMB.
7. REINFORCE ALL PILES AS DETAILED ON THE DRAWINGS. REFER TO CONCRETE NOTES FOR CONCRETE REQUIREMENTS. INSTALL EACH PILE AS A CONTINUOUS POUR.
8. VIBRATE TOP 4.5m OF CONCRETE IN ALL PILES.
9. SLEEVING WHERE REQUIRED SHALL BE INCLUDED IN THE PILING CONTRACT.
10. THE CONTRACTOR SHALL ANTICIPATE WATER INFILTRATION INTO THE EXCAVATION IN THE UNDERLYING TILL AND MAKE PROVISIONS FOR PUMPING AND/OR TREMIE PLACEMENT OF CONCRETE AS DICTATED BY THE FIELD CONDITIONS. SEE TEST HOLE TH18-01 IN APPENDIX A OF BID OPPORTUNITY FOR POST-DRILLING GROUNDWATER OBSERVATIONS.

REINFORCING STEEL:

1. REINFORCING STEEL TO BE NEW DEFORMED BILLET STEEL BARS CONFORMING TO CSA G30.18-09 (R2014). GRADE TO BE 400 MPa.
2. REINFORCING STEEL SHALL BE CLEAN, FREE OF RUST, DIRT, LOOSE SCALE, OIL, GREASE OR ANY OTHER MATERIAL WHICH WOULD REDUCE BOND WITH THE CONCRETE.
3. BEND ALL HORIZONTAL REINFORCING 305mm AROUND CORNERS OR PROVIDE ADDITIONAL 610mm X 610mm ANGLE BARS.
4. TIE, SUPPORT AND SPACE ALL REINFORCING STEEL WITH PROPER APPROVED DEVICES DESIGNED FOR USE IN REINFORCED CONCRETE, TO PREVENT DISPLACEMENT OF REINFORCING AND ENSURE SPECIFIED CONCRETE COVER.
5. PROVIDE MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS INDICATED ON DRAWINGS.
6. SUBMIT SHOP DRAWINGS WHICH CLEARLY INDICATE BAR SIZES, SPACINGS, LOCATIONS & QUANTITIES OF REINFORCING STEEL, BENDING & CUTTING SCHEDULES, SUPPORTING & SPACING DEVICES, ETC. FOR REVIEW PRIOR TO FABRICATION. DETAIL, FABRICATE AND PLACE REINFORCING IN ACCORDANCE WITH CSA A23.1-09 (R2014), CSA A23.3-14 AND ACI SP-66 (2004) UNLESS NOTED. LAP STEEL 36 BAR DIAMETERS (MINIMUM) UNLESS NOTED.

STRUCTURAL AND MISCELLANEOUS STEEL:

1. STRUCTURAL AND MISCELLANEOUS STEEL FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH CAN/CSA S16 (2014).
2. STRUCTURAL STEEL SHALL MEET THE REQUIREMENTS OF CAN/CSA G40.20/G40.21 (2013).

ROLLED SHAPES & PLATES	CSA G40.21-300W
ANCHOR BOLTS (GALV.)	ASTM F1554 - 36 ksi
BOLTS, NUTS, & WASHERS	ASTM A325-14
WELDING ELECTRODES	CSA W48-14

3. WELDING SHALL BE IN ACCORDANCE WITH CSA W59 (2013), BY WELDERS CERTIFIED AND QUALIFIED IN ACCORDANCE WITH CSA W47.1-09 (R2014). ALL WELDS TO BE 6mm UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.
5. HEAT STRAIGHTENING PROCEDURE SHALL BE APPROVED BY A WELDING ENGINEER AND BE SUBMITTED PRIOR TO REPAIR OF BENT MEMBERS.

GATE REFINISHING:

1. SAFELY REMOVE WROUGHT IRON AND STEEL GATES AND ABRASIVE BLAST TO ACHIEVE SSPC SP-6 SURFACE PREPARATION. REFER TO KEY NOTE 3 FOR GATE REPAIR AND MODIFICATION NOTES.
2. APPLY ONE COAT OF AMERCOAT 240 EPOXY PRIMER AS PER MANUFACTURER'S INSTRUCTIONS. STRIPE COAT ALL WELDS AND EDGES PRIOR TO COVERING FULL SURFACE AREA.
3. APPLY TWO COATS OF AMERCOAT 450H POLYURETHANE TOPCOAT AS PER MANUFACTURER'S INSTRUCTIONS. PROVIDE COLOUR CHART FOR COLOUR SELECTION TO CONTRACT ADMINISTRATOR.
4. REINSTALL GATES IN NEW LOCATION AND ENSURE ITS PROPER OPERATION. ADJUST COMPONENTS AS NEEDED.

ALL COMPONENTS ARE EXISTING UNLESS NOTED OTHERWISE WITH (N).

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

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.

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
KGS Group
No. 245

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	20/10/05	SS

KGS GROUP

DESIGNED BY	SS	CHECKED BY	DJP
DRAWN BY	FBV	APPROVED BY	DJP
HOR. SCALE:	AS NOTED	RELEASED FOR CONSTRUCTION:	
VERTICAL:	AS NOTED		
DATE	09/10/20	DATE	

ENGINEER'S SEAL

CONSULTANT DRAWING NO. L-14

Winnipeg

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

PROJECT TITLE
WELLINGTON CRESCENT RIVERBANK, PATH AND ROADWAY PROJECT
ROADWORKS
LANDSCAPING WORKS
PARK GATE PLAN, DETAILS & SPECIFICATIONS
(SHEET 1 OF 2)

SHEET 68 OF 69

COMPUTER FILE NAME 18-0107-011_L-14

CITY DRAWING NUMBER P-3536-61

PLOT 1:1 (A-1)