SAINT PAUL The Most Livable City in America

CITY OF ST PAUL

Department of Public Works 25 West 4th Street 1500 City Hall Annex Saint Paul, MN 55102

ORDINANCE PERMIT

	OFFICE USE ONLY
Application	No
Application	Date
SPR File #_	
Permit No.	

City in America							
Type of Permit (select one only):							
☐Base Roadway		□Roadway Sidew	alks	☐ Sanitary Sewer Collection System			
\square Bridge	☐Roadway Traffic			☐Storm Sewer Collection System			
☐Retaining Wall		☐Sanitary Drop Sl	haft	☐Storm Sewer Treatment System			
DL	Location (Street On, From/To, and Adjacent Lots/Blocks):						
Phase:	Location (Street						
	e description provid	led in the permit ap	plication and all subsequent ar	nendments or revisions, which are hereby			
incorporated by reference.]							
Applicant Contact Person:	Contact Person	- Γitle:	Contact Person Telephone:	Contact Person Email:			
	1						
P. I.G.			D 14	D IV			
Bond Co.:			Bond Amount:	Bond No.:			
Insurance Co.:			Insurance Certificate No.:				
Permit Conditions:	_						
Termit Conditions.							

This permit is issued with the stipulation that the work of the permittee and related agents, employees and contractors shall conform in all respects to the Redevelopment Agreement (including all Legal Requirements as defined by Article 1), the City of Saint Paul Department of Public Works Ordinance Permit Process Document, and the Department of Public Works List of Applicable Standards & Specifications. The permit shall be available for display at the site referred to herein and shown to any Police Officer or Inspector upon demand and does not authorize or allow for interference with the work of any Contract made or to be made with the City of Saint Paul.

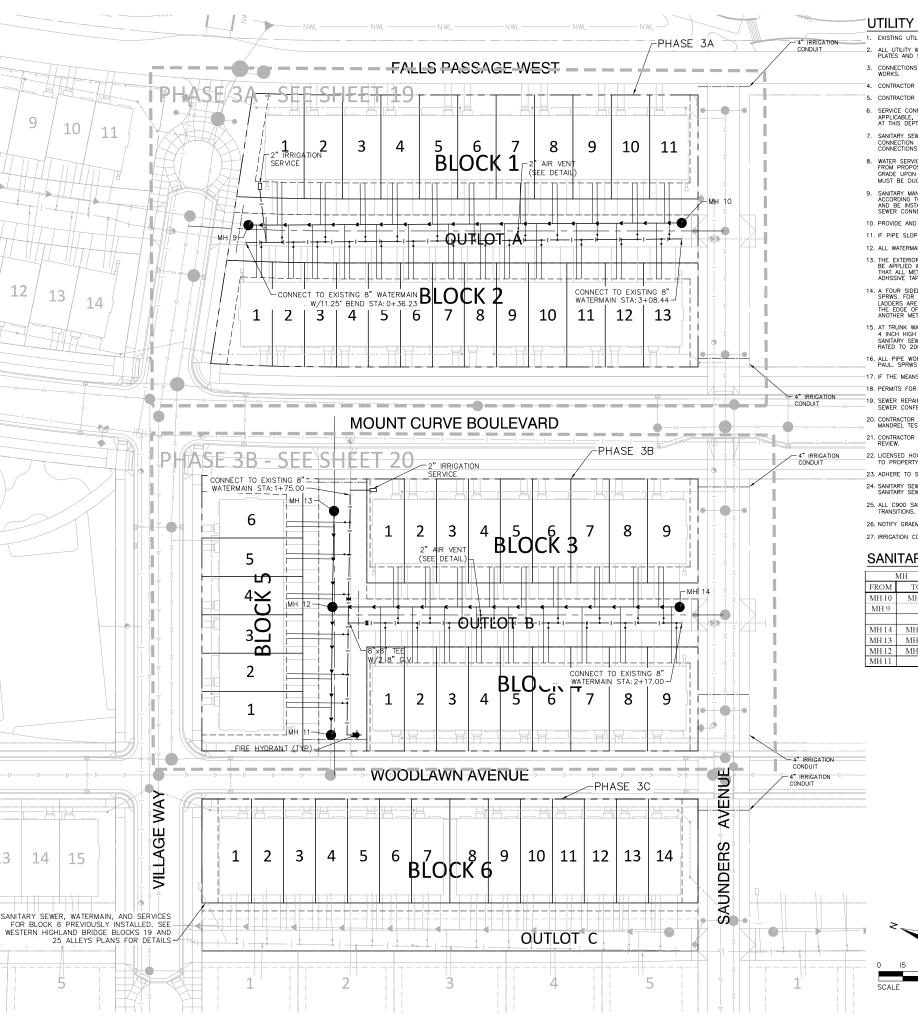
THIS PERMIT MAY BE REVOKED AT ANY TIME BY THE DIRECTOR OF PUBLIC WORKS

A PERMIT FOR THE ABOVE DESCRIBED CONSTRUCTION IS AUTHORIZED BY:						
Signature	Title	Date				
Printed Name						

PERMIT NUMBER

ITEMS TO BE COMPLETED PRIOR TO ACCEPTANCE OF INFRASTRUCTURE AND RELEASE OF PERMIT

Prior to acceptance of any infrastructure and release of City permits, the following items must be completed to the satisfaction of the City: ☐ Corrective (punch list) work completed; ☐ Original reproducible CAD and PDF as-built plans, signed by the Engineer of Record, provided to Public Works; Submittal of final copies of Metropolitan Council Environmental Services and MN Pollution Control Agency Permits (Sewer Extension, SAC Determination, etc.); ☐ Full compliance with project Quality Management Plan or other document(s) governing quality management and quality assurance; □ Documentation of compliance with all applicable City and non-City permit requirements, including, but not limited to: City Public Works Right-of-Way Office, Minnesota Pollution Control Agency, Capitol Region Watershed District, and National Pollution Discharge Elimination System permit requirements; ☐ Documentation of roadway materials at compaction of grading and base, plant mix design report, strength; ☐ Video of all sanitary sewer mains and laterals, storm sewer mains and laterals, and any structural BMP's (pipe galleries, draintile, sediment control structures, weir structures, etc.) installed under any permit, provided to the Public Works Sewer Division; ☐ Sewer Permit drawings for paving connections or stubs installed to service vertical development provided to Public Works, in addition to Private Service Lateral Permit Drawings; ☐ Documentation of Public Works notified for signal and lighting inspection of pole field layouts (staking), conduits and foundations installed, poles and wiring installed, and head positioning and phasing/detection verification (signals only); ☐ For infrastructure within parks: Documentation that Parks Department has been notified of completion status; ☐ All applicable operation and maintenance manuals provided to Public Works; and ☐ Certificate of Compliance signed and submitted to City by Engineer of Record. **RELEASE OF PERMIT:** Council Res. No. Permit No.____ Permit Date ____ Release Authorized by_____ Title____



UTILITY NOTES

- 1. EXISTING UTILITIES, SERVICE LOCATIONS AND ELEVATIONS SHALL BE VERIFIED IN FIELD PRIOR TO CONSTRUCTION.
- 2. ALL UTILITY WORK WITHIN PUBLIC ROAD ROW SHALL COMPLY WITH MNDOT ENGINEERING DESIGN STANDARDS AND THE CITY OF ST. PAUL STANDARD DETAIL PLATES AND SPECIFICATIONS FOR MANHOLES AND SEWER.
- 3. CONNECTIONS TO PUBLIC SEWERS MUST BE DONE BY A LICENSED HOUSE SEWER CONTRACTOR UNDER A PERMIT FROM ST. PAUL DEPARTMENT OF PUBLIC
- 4. CONTRACTOR TO CONFIRM SEWER TIE IN LOCATION AND ELEVATION PRIOR TO MAKING CONNECTION.
- 5. CONTRACTOR TO PROVIDE COORDINATION FOR TELEPHONE, GAS, AND ELECTRIC SERVICE CONNECTION WITH THE RESPECTIVE SERVICE COMPANY
- 6. SERVICE CONNECTIONS SHALL BE INSTALLED WITH 8' OF COVER AS PER THE ESTABLISHED GRADE FROM THE MAIN TO THE PROPERTY LINE OR, IF APPLICABLE, TO THE UTILITY EASEMENT LINE, WHEN SOLD ROCK CONDITIONS ARE ENCOUNTERED, WATER SERVICES MAY BE INSTALLED WITH 6.5' OF COVER. AT THIS DEPTH, THE NEEDE FOR INSULATION WILL BE DETERMINED BY SPRWS INSPECTORS.
- SANITARY SEWER SERVICE SHALL BE 4" PVC C900 WITH DUCTILE IRON CL 52 WYES CONFORMING TO ASTM STANDARD D-2665, FROM THE SERVICE
 CONNECTION POINT TO THE MAIN LIE CONNECTION POINT PER THE CITY'S STANDARD SPECIFICATIONS FOR CONSTRUCTING AND REPAIRING PRIVATE SEWER
 CONNECTIONS.
- 8. WATER SERVICES FOR TOWHNHOMES SHALL BE 2" DIA. "TYPE K" COPPER W. 2" COPP. STOP AND 2" ADJUSTABLE CURB BOX. CURB BOX TO BE SET 3' FROM PROPOSED WATERMAIN AND AT FINISHED GRADE. ALL WATER SERVICE VALVE BOXES WITHIN CONSTRUCTION AREA MUST BE EXPOSED AND BROUGHT TO GRADE UPON COMPLETION OF CONSTRUCTION. ALL WATERMAIN OR SERVICE PIPES 2 INCHES AND SMALLER MUST BE TYPE K COPPER, 4" AND 6" PIPES MUST BE DUCTILE IRON CL 53, AND ALL PIPES 8" OR LARGER MUST BE DUCTILE IRON CL 52.
- 9. SANITARY MANHOLES TO BE 48" DIAMETER CONCRETE W/NEENAH R-1642 CASTING, UNLESS NOTED OTHERWISE, ALL SANITARY SEWER TO BE INSTALLED ACCORDING TO CITY OF ST. PAUL PUBLIC WORKS DETAILS AND SPECIFICATIONS. ALL SANITARY SEWER PIPES, MANHOLES, AND SERVICES MUST BE ADHERE AND BE INSTALLED IN ACCORDANCE TO THE CITY OF ST. PAUL PUBLIC WORKS STANDARD SPECIFICATIONS FOR CONSTRUCTING AND REPAIRING PRIVATE SEWER CONNECTIONS.
- 10. PROVIDE AND INSTALL MECHANICAL THRUST RESTRAINT FOR ALL WATER MAIN JOINTS.
- 11. IF PIPE SLOPE IS LESS THAN 2%, LASER EQUIPMENT IS REQUIRED FOR INSTALLATION.
- 12. ALL WATERMAIN AND WATER SERVICES TO BE INSTALLED ACCORDING TO SPRWS "STANDARDS FOR THE INSTALLATION OF WATER MAINS."
- 13. THE EXTERIOR OF DUCTILE IRON PIPE SHALL BE COATED WITH A LAYER ARC SPRAYED ZINC PER ISO 8179. THE INTERIOR CEMENT MORTAR LINING SHALL BE APPLIED WITHOUT ASPHALT SEAL COAT. PIPE MUST BE WRAPPED IN V-BIO POLYETHYLENE ENCASSEMENT. THE ENCASSEMENT SHALL BE INSTALLED SUCH THAT ALL METALLIC SURFACES AND APPLITEMANCES OF THE PIPE ARE COVERED WITH THE ENCASSEMENT AND SECURED USING POLYETHYLENE COMPATIBLE ADHSSIVE TAPE. ALL RIPS, TEARS, AND OTHER DAMAGES SHALL BE REPAIRED WITH COMPATIBLE ADHESIVE TAPE.
- 14. A FOUR SIDED TRENCH BOX IS REQUIRED ON ALL EXCAVATIONS DEEPER THAN 5' WHERE UNDERGROUND WORK OR INSPECTION IS TO BE PREFORMED BY SPRWS. FOR ALL WET TAPS TO BE PREFORMED SPRWS, A MINIMUM TRENCH BOX SIZE OF 8 FEET HIGH X 8 FEET WIDE x 10 FEET LONG IS REQUIRED. LADDERS ARE REQUIRED AND MUST EXTEND 3 FEET ABOVE THE SUFFACE OF THE TRENCH EXCAVATED MATERIAL MUST BE KEPT A MINIMUM OF 2' FROM THE EDGE OF THE TRENCH. SIDEWALKS, PAYEMENTS, DUCTS AND APPURTENANT STRUCTURES SHALL NOT BE UNDERMINED UNLESS A SUPPORT SYSTEM OR ANOTHER METHOD OF PROTECTION IS PROVIDED.
- 15. AT TRUNK WATERMAIN AND SANITARY CROSSINGS, MAINTAIN 3 FEET VERTICAL SEPARATION BETWEEN WATER AND SEWER PIPES OR 18 INCH SEPARATION WITH 4 INCH HIGH DENSITY INSULATION PER SPRWS STANDARD PLATE D-10 FOR TYPICAL WATER MAIN OFFSETS. WHEN 10' HORIZONTAL CLEARANCE FROM SANITARY SEWER CANNOT BE MET, MAINTAIN 5' HORIZONTAL CLEARANCE AND THE SANITARY SEWER MATERIAL SHALL BE PVC C900 DR14 AND PRESSURE RATED TO 200 PSI.
- 16. ALL PIPE WORK INSIDE OF PROPERTY TO BE PERFORMED BY A PLUMBER LICENSED BY THE STATE OF MINNESOTA AND CERTIFIED BY THE CITY OF SAINT
 PAUL. SPRWS REQUIRES SEPARATE OUTSIDE AND INSIDE PLUMBING PERMITS FOR EACH NEW WATER SERVICE.
- -17. IF THE MEANS AND METHODS DETERMINED BY THE CONTRACTOR REQUIRES ANY WORK IN THE ROW, AND ENCROACHMENT PERMIT IS REQUIRED.
- 18. PERMITS FOR PRIVATE SEWER SERVICES WILL NOT BE ISSUED UNTIL THE PUBLIC SANITARY MAIN IN THE ALLEY HAS BEEN ACCEPTED BY THE CITY,
- = 19. SEWER REPAIR PERMIT: PLUMBING CONTRACTOR TO OBTAIN REPAIR PERMITS FROM PUBLIC WORKS FOR PROPOSED MODIFICATION TO THE EXISTING STORM SEWER CONFECTIONS. CALL ST. PAUL PW PERMIT DESK (651-266-6234) FOR INFORMATION ON OBTAINING THIS PERMIT.
- 20. CONTRACTOR TO CLEAN AND TELEVISE NEW SANITARY SEWER MAINLINE AND LATERAL STUBS. NEW SANITARY SEWER MAINLINE TO BE AIR TESTED AND MANDREL TESTED. LATERAL STUBS TO BE CAPPED PER CEAM STANDARDS.
- 21. CONTRACTOR TO SUBMIT TELEVISING VIDEOS, AIR TEST RESULTS, AND MANDREL TEST RESULTS TO THE ENGINEER OF RECORD AND SEWER UTILITY FOR REVIEW.
- 22. LICENSED HOUSE DRAIN CONTRACTOR TO OBTAIN SEWER CONNECTION PERMIT TO CONSTRUCT NEW SANITARY AND STORM CONNECTION IN STREET FROM MAIN TO PROPERTY. CALL ST. PAUL PW PERMIT DESK (651–266–6234) FOR INFORMATION ON OBTAINING THIS PERMIT.
- 23. ADHERE TO STD. PLATE 2317D WHEN INSTALLING PIPE BEDDING INTO ROCK.
- 24. SANITARY SEWER SERVICE PASSING WITHIN 10 FEET OF THE BUILDING ARE GOVERNED BY THE MN PLUMBING CODE. AIR TESTING IS REQUIRED FOR ALL SANITARY SEWER SERVICES WITHIN 10 FEET OF BUILDINGS, COMPLIANT WITH MN STATE PLUMBING CODE 4714 SECTION 1109.0.
- 25. ALL C900 SANITARY LATERALS STUBBED LESS THAN 2' FROM THE FACE OF THE BUILDING MUST TRANSITION TO SCH40. DUCTILE SLEEVES ARE REQUIRED AT TRANSITIONS. THE TRANSITION MUST BE NO LESS THAN 2' FROM THE FACE OF THE BUILDING.
- 26. NOTIFY GRAEME CHAPLE AT 651-266-6882 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION AND/OR TESTING
- 27. IRRIGATION CONDUITS TO MAINTAIN AT LEAST 1' OF SEPARATION FROM ALL PROPOSED AND EXISTING UTILITIES.

SANITARY SEWER SCHEDULE:

	МН	PIPE SLOPE	PIPE LENGTH	INVERT	INVERT	RIM ELEV	STRUCTURE	MANHOLE	COVER
FROM	TO	[FT/FT]	[FT]	FROM	TO	KIM ELEV	SIZE [IN]	BUILD [FT]	[FT]
MH 10	MH 9	0.0082	270.80	806.83	804.60	817.33	48	10.50	9.83
MH 9				804.50		816.67	48	12.17	12.07
MH 14	MH 12	0.0050	216.98	807.53	806.45	818.20	48	10.67	10.00
MH 13	MH 12	0.0050	60.00	807.05	806.75	817.72	48	10.67	10.00
MH 12	MH 11	0.0050	80.01	806.35	805.95	818.40	48	12.05	10.98
MH 11				798.06		818.89	48	20.83	12.28

LEGEND

LOT LINE

PROPERTY LINE

- PROPOSED PRIVATE UTILITY CORRIDOR / EASEMENT

EXISTING EASEMENT

PROPOSED STORM SEWER

- PROPOSED CONDUIT - PROPOSED WATERMAIN

- PROPOSED SANITARY SEWER

EXISTING WATERMAIN

EXISTING SANITARY SEWER EXISTING STORM SEWER

EXISTING SANITARY MANHOLE

EXISTING HYDRANT

EXISTING GATE VALVE EXISTING CB

PROPOSED SANITARY MANHOLE PROPOSED GATE VALVE

PROPOSED HYDRANT

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Minneapolis, MN 55402 612,758,3080

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PLANS SANITARY SEWER AND WATERMAIN

PLAN

ROWHOM

BRIDGE

HIGHLAND F OVERALL SAINT I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

Markens MARK RAUSCH, PE

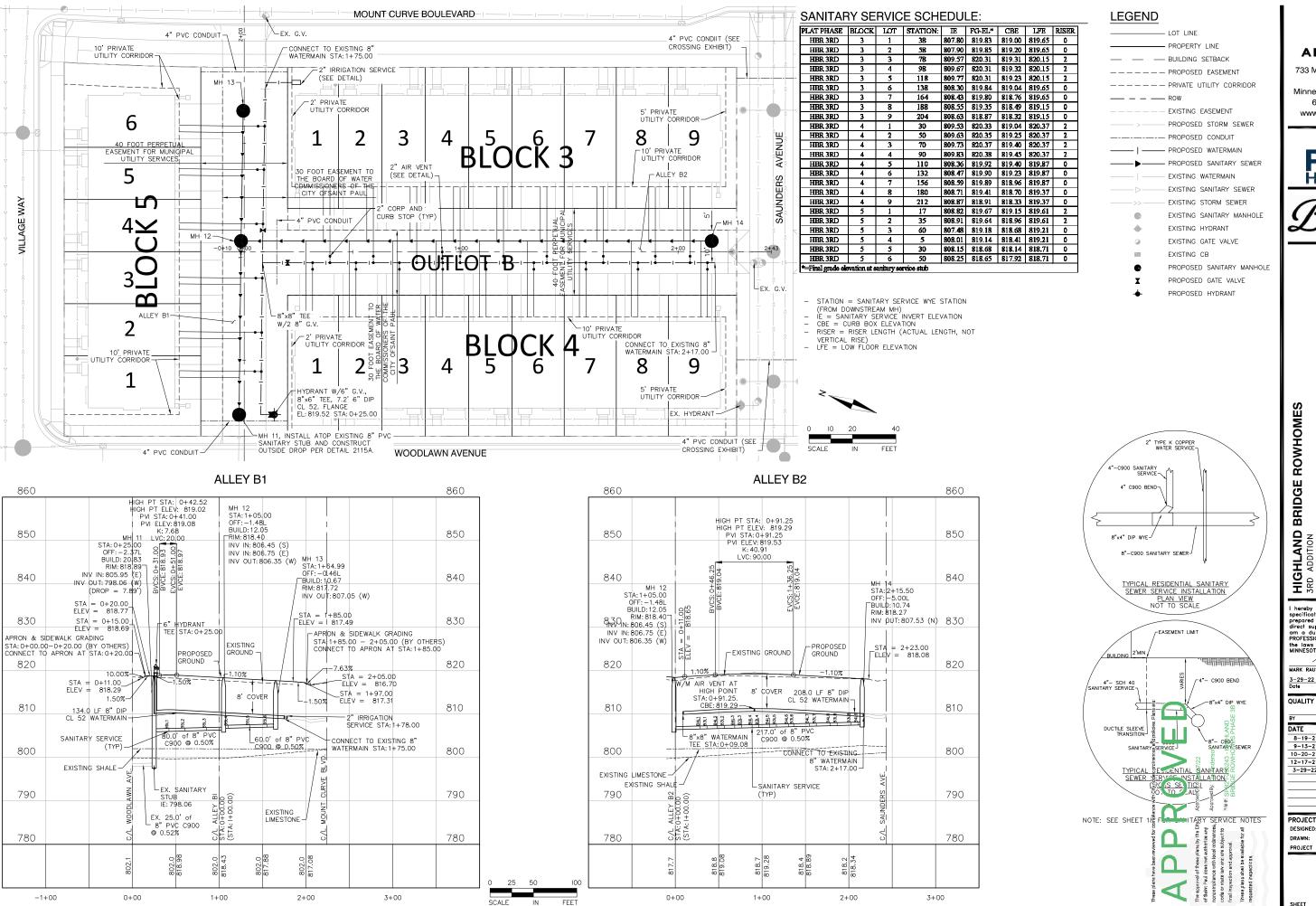
12-17-21 QUALITY ASSURANCE/CONTROL

DATE ISSUE 8-19-21 SPR SUBMITTAL 9-13-21 CRWD SUBMITTAL

10-20-21 SPR RESUBMITTAL 12-17-21 SPR RESUBMITTAL

PROJECT TEAM DATA DRAWN: PROJECT NO: 219-0225

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3B

PLAN AND PROFILES

AND UTILITY

REVIEW PLAN 門

STREET SAINT SITE I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER under the laws of the State of MINNESOTA

Markens IARK RAUSCH, PE 3-29-22

QUALITY ASSURANCE/CONTROL DATE ISSUE

8-19-21 SPR SUBMITTAL 9-13-21 CRWD SUBMITTA 10-20-21 SPR RESUBMITTAL 12-17-21 SPR RESUBMITTA 3-29-22 SPR RESUBMITTA PROJECT TEAM DATA

BJP PROJECT NO: 219-0225

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