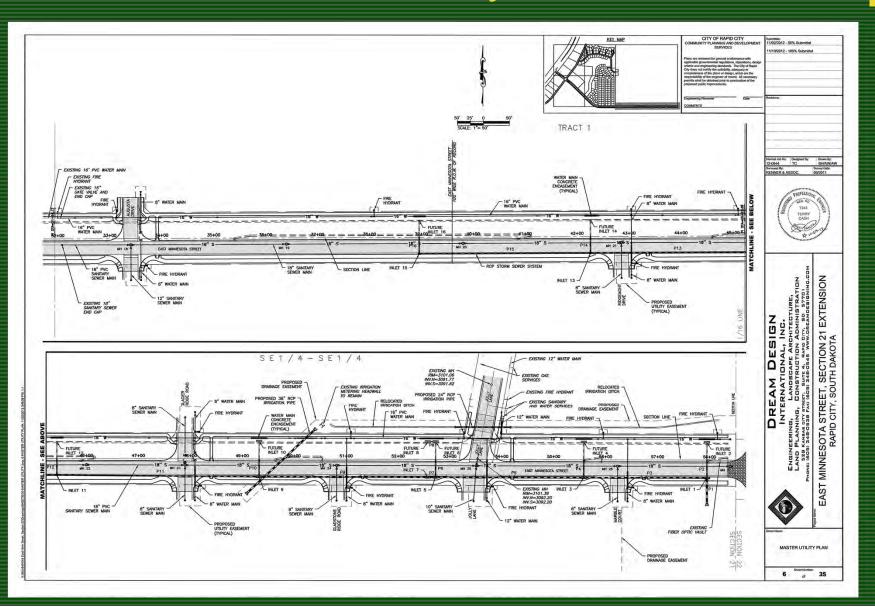


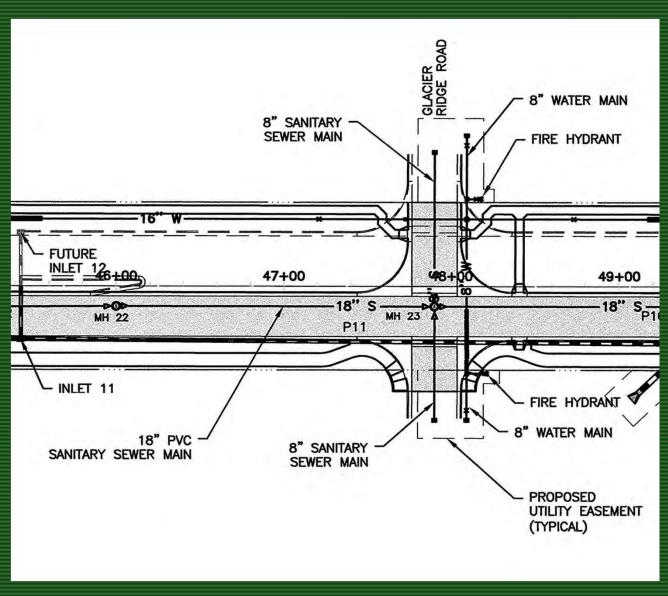
MINNESOTA STREET MANHOLE EXCEPTION

Hani Shafai, PE

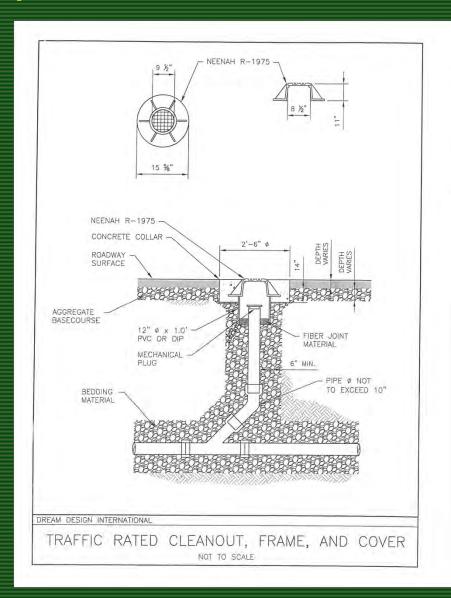
Minnesota Street Utility Plan



Typical Intersection with Minnesota Street



Typical Proposed Street Cleanout



REQUEST FOR EXCEPTION TO RAPID CITY DESIGN STANDARD / CRITERIA / REGULATIONS

DATE:	SUBMITTED BY:	Dream Design	gn International, Inc	
PIN #:		528 Kansas	City St. Suite 4, RC	SD 57701
LEGAL DESCRI	IPTION: Proposed E. Minne	sota Street from Elks C	rossing to the east Section Line	of Section 16 and 21;
Located in the S1/2 of	the S1/2 of SE1/4 of Section 16	6, also in the N1/2 of t	ne N1/2 of the NE1/4 of Section	n 21, all located in
T1N, R8E, BHM, Rap	pid City, Pennington County,	South Dakota		
EXCEPTION RE	QUESTED: SECTION	3.6.1 s	TD / CRITERIA / REG	Criteria
DESCRIPTION C	OF REQUEST: Allow th	ne use of clean-o	uts on sanitary sewer stu	ubs greater than
	propose including in the plans			
	, , , , , , , , , , , , , , , , , , , ,	and appear to a	itadired field and diedir edit d	iotali.
Control of the				
JUSTIFICATION	: City staff's concern for the	constructability and	maintenance of sewer stubs	can be addressed
by making the testing	g criteria more demanding for	the installed pipe st	ub and installing a traffic rate	ed clean-out
	the attached note and detail whi			
PROPERTY OWN	OCUMENTATION: NER'S SIGNATURE**: sly designated by the Owner in		No DATE:	12/28/12
PROPERTY OWN **Or Agent, if previous STAFF COMMEN **Manafe Har pe Hac fullence. O	NER'S SIGNATURE**: sly designated by the Owner in NTS: Utilizing tempor tential to Create deligation profiles to this falls	Subjections. FOR STAFF ONLY SEX TEXAMINATION Vections and modern of the Continues	cleanants in lieu of the single problems with test	E manheles dues enten en
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ASSOCIATED FILE#: 10 PLOSS

*Public Works Director's signature is not required for Lot Length to Width Exceptions, Ordinance No. 5232



Minnesota Street Proposed Phase 3



City of Rapid City



INFRASTRUCTURE DESIGN CRITERIA

2012 EDITION

3.6 Construction Phasing

3.6.1

Sewer systems shall terminate at the nearest upstream manhole located in adjacent and subsequent phases; if the sewer has the potential to be extended, a two foot (2') stub shall be provided on the upstream side of the last manhole.

3.6.2

Water distribution systems shall extend across all proposed street intersections located in adjacent and subsequent phases.

3.6.3

Construction phasing which terminates mains in mid-block will be required to meet Section 3.7, Provisions for Future Extension.

Recommended Design Criteria Manual

Wastewater Collection and Treatment Facilities

South Dakota Department of Environment and Natural Resources

Prepared By: Staff Engineer Reviewed By: Facilities Management Engineers

> Division of Environmental Services Joe Foss Building Pierre, South Dakota 57501 Phone: (605) 773-3351

> > March 1991

G. Manholes

- 1. Location Unless necessary, manholes should not be located in drainageways. If any flooding over manholes is anticipated; they shall be provided with watertight covers. Manholes shall be installed at the end of each line; at all changes in grade, size, or alignment; at all intersections; and at distances not greater than 400 feet for sewers 15 inches or less, and 500 feet for sewers 18 inches to 30 inches, except that distances up to 600 feet may be approved in cases where adequate cleaning equipment for such spacing is provided. Greater spacing may be permitted in larger sewers and in those carrying a settled effluent. The distance between manholes for sewers less than 15 inches in diameter may be increased to 450 feet if justification is provided by the consultant.
- 2. Cleanouts Cleanouts may be used only for special conditions and shall not be substituted for manholes nor installed at the end of laterals greater than 150 feet in length. Cleanouts shall be provided on all service lines in accordance with State Plumbing Code. The cleanout shall be constructed using a 45 degrees bend directed downstream on vertical riser pipe to the surface. Size of the cleanout shall be the same as the pipe size.
- 3. *Drop Type* A drop pipe shall be provided either inside or outside for a sewer entering a manhole at an elevation of 24 inches or more above the manhole invert. Where the difference in elevation between the incoming sewer and the manhole invert is less than 24 inches, the invert should be filleted to prevent solids deposition.

Recommended Standards for Wastewater Facilities

2004 Edition

Policies for the Design, Review, and Approval of Plans and Specifications for Wastewater Collection and Treatment Facilities

A Report of the Wastewater Committee of the Great Lakes--Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers

MEMBER STATES AND PROVINCE
Illinois Indiana Iowa Michigan Minnesota Missouri
New York Ohio Ontario Pennsylvania Wisconsin

Published by: Health Research Inc., Health Education Services Division, P.O. Box 7126, Albany, NY 12224 (518)439-7286 www.hes.org

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34. MANHOLES

34.1 Location

Manholes shall be installed: at the end of each line; at all changes in grade, size, or alignment; at all intersections; and at distances not greater than 400 feet (120 m) for sewers 15 inches (375 mm) or less, and 500 feet (150 m) for sewers 18 inches (450 mm) to 30 inches (750 mm), except that distances up to 600 feet (185 m) may be approved in cases where adequate modern cleaning equipment for such spacing is provided. Greater spacing may be permitted in larger sewers. Cleanouts may be used only for special conditions and shall not be substituted for manholes nor installed at the end of laterals greater than 150 feet (45 m) in length.

