

# MOUNT RUSHMORE ROAD UTILITY RECONSTRUCTION SAINT JAMES STREET to KANSAS CITY STREET

FOR BIDDING PURPOSES ONLY

PROJECT NUMBER: 13-2139 CIP NO.50950

RAPID CITY, SOUTH DAKOTA

PCN X03L

WATER MAIN, SANITARY SEWER MAIN, AND LANDSCAPING



ONE CALL  
BEFORE DIGGING  
1-800-781-7474

### INDEX OF SECTIONS

- SECTION A: ESTIMATE OF QUANTITIES, GENERAL PROJECT NOTES, & INFORMATION
- SECTION C: TRAFFIC CONTROL PLANS
- SECTION D: EROSION AND SEDIMENT CONTROL PLANS
- SECTION G: UTILITY PLANS
- SECTION H: LANDSCAPING PLANS

We, the undersigned, certify that we have read and understand the provisions contained in the City of Rapid City Standard Specifications for Public Works Construction, current edition and the City of Rapid City's adopted Design Criteria Manuals. The drawings and specifications contained here within, to the best of our knowledge, were prepared in accordance with these documents or a properly executed exception to the Standard Specifications and/or Infrastructure Design Criteria Manual has been secured.

*Richard A. Marsh*

Richard A. Marsh, P.E.

12-1-2015

Date:

*Patrick H. Wyss*

Patrick H. Wyss, PLA

12-1-2015

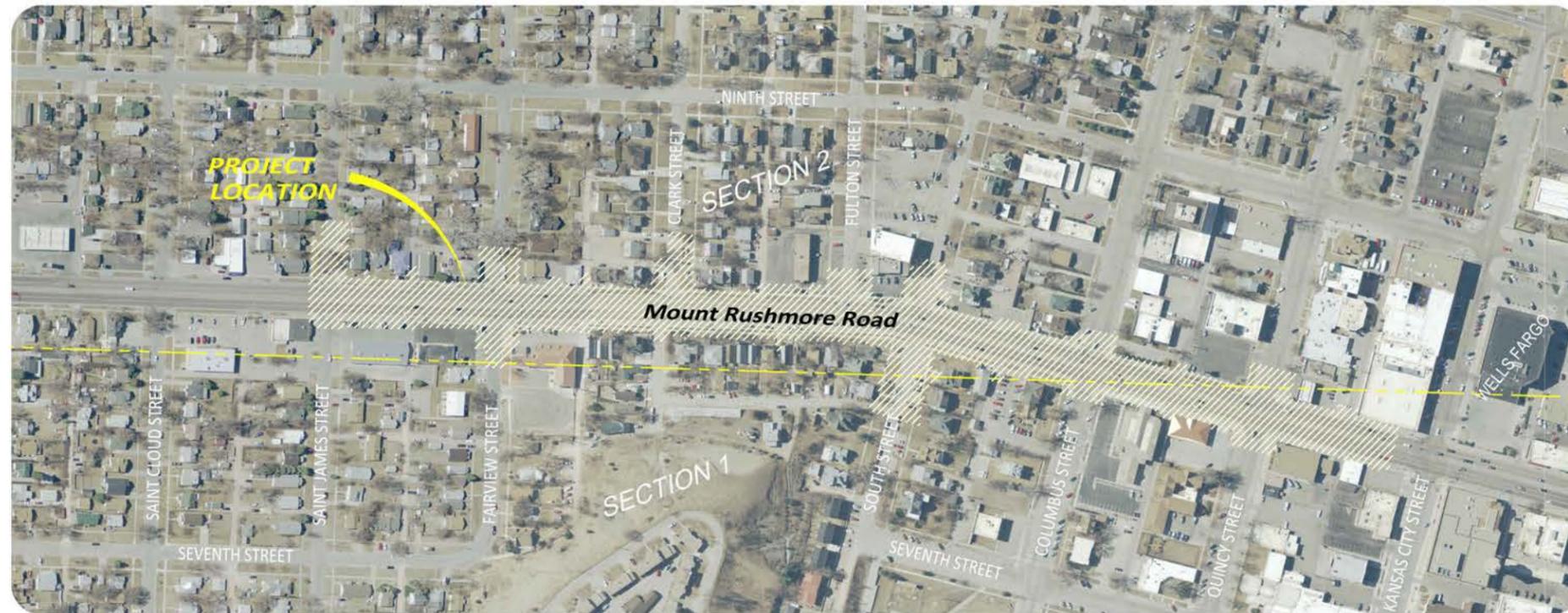
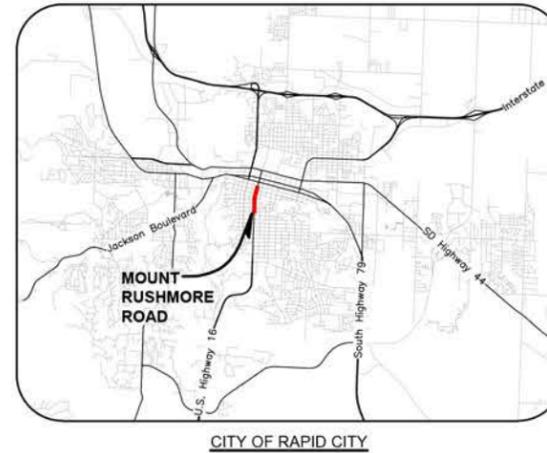
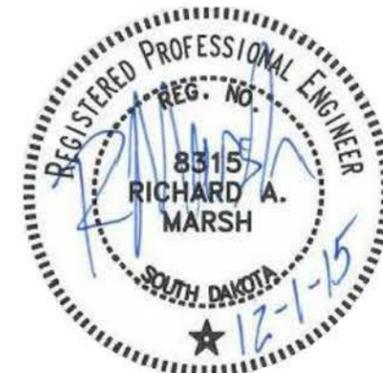
Date:



**Wyss Associates, Inc.**

Landscape Architecture  
Golf Course Architecture  
Parks & Recreation Design

728 Sixth Street Rapid City, South Dakota 57701-3670  
Ph. 605.348.2268 Fax 605.348.6506  
email: info@wyssassociates.com



VICINITY MAP

# SECTION A

## ESTIMATE OF QUANTITIES, GENERAL PROJECT NOTES, & INFORMATION



VICINITY MAP

### INDEX OF SHEETS

SHEET NUMBER	DESCRIPTION
A1	PROJECT LOCATION WITH INDEX
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A11	TOPOGRAPHY LEGEND



November 06, 2015 10:09:23 a.m.  
Drawing: ILLINOISE/PAVING (SCHILLER) (PA) PROJECTS & PROPOSALS\11119.00 MT. RUSHMORE RD. UTILITIES RECONSTRUCTION DRAWINGS\SHEETS\PHASE 3 - SAINT JAMES TO KANSAS (PTV)



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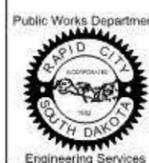
ONE CALL  
BEFORE DIGGING  
1-800-781-7474



Prepared By:



Prepared For:



Scale:

 Designed By: RM  
 Design Date: 07.2015  
 Internal Job No: 11119.06  
 Surveyed By: SDDOT  
 Project Number: 13-2139, CIP NO.50950, PCN X03L

Drawn By:

 Drawn By: RM  
 Print Date: 12.04.2015

Revisions:

Number: Description:

FOR BIDDING PURPOSES ONLY

 MOUNT RUSHMORE ROAD  
 UTILITY RECONSTRUCTION

Sheet Title:

 SECTION A  
 ESTIMATE OF  
 QUANTITIES

Sheet No:

 A2  
 of  
 A11

## SECTION C ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	100	Hour
634E0110	Traffic Control Signs	222	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0130	Traffic Control Supervisor	4.0	Day
634E0285	Type 3 Barricade, 8' Double Sided	8	Each
634E0310	Temporary Flexible Vertical Markers (Tabs)	710	Ft
634E0420	Type C Advance Warning Arrow Board	2	Each
634E0525	Linear Delineation System Panel, Barrier Mounted	96	Each
634E0700	Traffic Control Movable Concrete Barrier	48	Each
634E0705	Remove and Reset Traffic Control Movable Concrete Barrier	160	Each
634E2000	Longitudinal Pedestrian Barricade	600	Ft
734E5010	Sweeping	30	Hour

## SECTION D ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
100E0100	Clearing	Lump Sum	LS
110E1690	Remove Sediment	20	CuYd
110E1693	Remove Erosion Control Wattle	600	Ft
110E1695	Remove Sediment Filter Bag	600	Ft
230E0020	Placing Contractor Furnished Topsoil	100	CuYd
731E0100	Fertilizing	6	Lb
733E0100	Sodding	200	SqYd
734E0154	12" Diameter Erosion Control Wattle	600	Ft
734E0165	Remove and Reset Erosion Control Wattle	100	Ft
734E0180	Sediment Filter Bag	600	Ft
734E0185	Remove and Reset Sediment Filter Bag	100	Ft

## SECTION G ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E3200	Construction Staking	Lump Sum	LS
110E0300	Remove Concrete Curb and Gutter	156	Ft
110E0370	Remove Curb Stop	57	Each
110E0460	Remove Manhole	16	Each
110E0520	Remove Sewer Pipe	278	Ft
110E1010	Remove Asphalt Concrete Pavement	468.2	SqYd
110E1140	Remove Concrete Sidewalk	31.1	SqYd
110E1950	Remove Contaminated Water	50	MGal
110E1970	Remove Water Main	45	Ft
110E5740	Salvage Fire Hydrant	8	Each
110E5765	Salvage Valve and Valve Box	30	Each
120E0900	Contaminated Material Excavation	500	CuYd
250E0010	Incidental Work	Lump Sum	LS
260E1010	Base Course	234.8	Ton
260E6010	Granular Material	150.0	Ton
320E1200	Asphalt Concrete Composite	167.8	Ton
451E0301	Pipe Encasement	11	Each
451E0654	4" PVC Restrained Joint Water Main	44	Ft
451E0656	6" PVC Restrained Joint Water Main	367	Ft
451E0658	8" PVC Restrained Joint Water Main	5030	Ft
451E0660	10" PVC Restrained Joint Water Main	24	Ft
451E0662	12" PVC Restrained Joint Water Main	860	Ft
451E0802	1" Copper Pipe	1531	Ft
451E0806	1.5" Copper Pipe	55	Ft
451E1008	8" PVC Sewer Pipe	3520	Ft
451E1204	4" Sewer Service	1802	Ft
451E1504	4" Sanitary Sewer Service Cleanout	43	Each
451E2212	8"x4" Pipe Tee	1	Each
451E2213	8"x6" Pipe Tee	12	Each
451E2214	8"x8" Pipe Tee	13	Each
451E2231	12"x6" Pipe Tee	2	Each
451E2232	12"x8" Pipe Tee	2	Each
451E2234	12"x12" Pipe Tee	1	Each
451E2332	12"x8" Pipe Cross	1	Each
451E2412	8"x4" Pipe Reducer	4	Each
451E2413	8"x6" Pipe Reducer	5	Each
451E2432	12"x8" Pipe Reducer	1	Each
451E2433	12"x10" Pipe Reducer	2	Each
451E2500	Tapping Saddle	51	Each
451E2806	1.5" Corporation Stop with Tapping Saddle	3	Each
451E2902	1" Curb Stop with Box	50	Each
451E2906	1.5" Curb Stop with Box	3	Each
451E3004	4" Pipe Bend	4	Each
451E3006	6" Pipe Bend	10	Each
451E3008	8" Pipe Bend	25	Each
451E3010	10" Pipe Bend	3	Each
451E3012	12" Pipe Bend	5	Each
451E3108	8" Pipe Cap	8	Each
451E3204	4" Pipe Coupling	1	Each

## SECTION G ESTIMATE OF QUANTITIES CONT.

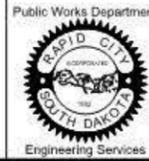
BID ITEM NUMBER	ITEM	QUANTITY	UNIT
451E3206	6" Pipe Coupling	2	Each
451E3208	8" Pipe Coupling	4	Each
451E3210	10" Pipe Coupling	2	Each
451E3212	12" Pipe Coupling	1	Each
451E3304	4" Pipe Transition Coupling	3	Each
451E3306	6" Pipe Transition Coupling	6	Each
451E3308	8" Pipe Transition Coupling	1	Each
451E3414	8" Pipe Plug	1	Each
451E4204	4" Gate Valve with Box	1	Each
451E4208	8" Gate Valve with Box	32	Each
451E4212	12" Gate Valve with Box	7	Each
451E4380	Tracer Wire Access Box	24	Each
451E4400	Pipe Insulation	549	SqFt
451E4585	Fire Hydrant with Auxiliary Valve & Box	14	Each
451E4903	Type 2 Foundation Material	500	Ton
451E4904	Type 3 Foundation Material	500	Ton
451E4918	Imported Trench Backfill	1500	CuYd
451E5010	Rock Excavation, Trench	100	CuYd
451E6002	1" Water Service, Connect Charge	2	Each
451E6100	Reconnect Water Service	51	Each
451E6105	Connect To Existing Water Main	15	Each
451E7005	Adjust Sewer Service	1	Each
451E7010	Reconnect Sewer Service	38	Each
451E7015	Connect Sewer Service	2	Each
451E7016	Connect to Existing Sewer Main	12	Each
451E7020	Sewer Bypass Pumping	Lump Sum	LS
451E7402	Test Station	14	Each
462E0200	Controlled Density Fill	50	CuYd
650E0060	Type B66 Concrete Curb and Gutter	158	Ft
651E0040	4" Concrete Sidewalk	288	SqFt
671E1048	48" Manhole	22	Each
671E1348	48" Drop Manhole	6	Each
671E5510	Extra Depth for 48" Manhole	120	Ft
671E6035	Special Manhole Frame & Lid	43	Each
680E0040	4" Underdrain Pipe	64	Ft
831E0200	Woven Geotextile Separator	200	SqYd
900E2090	AASHTO T-180 Soil Test	30	Each



Prepared By:



Prepared For:



Scale:

Designed By: RM	Drawn By: RM
Design Date: 07.2015	Print Date: 12.04.2015
Internal Job No: 11119.06	Survey Date: 2012
Surveyed By: SDDOT	Project Number: 13-2139, CIP NO.50950, PCN X03L

Revisions:

Number	Description

FOR BIDDING PURPOSES ONLY

# MOUNT RUSHMORE ROAD UTILITY RECONSTRUCTION

Sheet Title:

SECTION A  
ESTIMATE OF  
QUANTITIES

Sheet No:

A3  
of  
A11

## SECTION H ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
120E0010	Unclassified Excavation	432	CuYd
230E0020	Placing Contractor Furnished Topsoil	238	CuYd
260E1010	Base Course	128	Ton
380E2574	4" Barrier Type Colored & Patterned Median PCC Pavement	416	SqYd
451E4901	Type 1 Bedding Material	57	Ton
651E0750	5" Reinforced Colored Concrete Sidewalk	990	SqFt
680E0240	4" Corrugated Polyethylene Drainage Tubing	579	Ft
680E0440	4" Slotted Corrugated Polyethylene Drainage Tubing	243	Ft
735E0110	1 Gallon Perennial Plant, Furnish and Plant	579	Each
735E1510	1 Gallon Coniferous Shrub, Furnish and Plant	294	Each
735E5010	1 Gallon Ornamental Grass, Furnish and Plant	94	Each
735E1205	1 Gallon Deciduous Shrub, Furnish and Plant	56	Each
900E5156	3" Depth Shredded Bark Mulch	713	SqYd
900E5160	Planter	18	Each
900E5430	Irrigation System	1	LS
900E6005	Concrete Foundation	1	Each
900E6010	Precast Concrete Welcome Sign, Furnish	2	Each
900E6011	Precast Concrete Welcome Sign, Install	2	Each

**SPECIFICATIONS**

Standard Specifications shall be the City of Rapid City Standard Specifications for Public Works Construction, 2007 Edition, with current updates, revisions, except as modified herein via plans, plan notes, and special provisions included in the contract/bid documents.

Please note that supplemental Sections 8A and 8B shall replace Section 8 of the specifications

Also note supplemental specification 03 4100 BSD-Precast Structural Concrete for monument concrete pier and foundation work.

**PROJECT DESCRIPTION, COORDINATION AND SCHEDULING**

Work on the project includes City of Rapid City water and sewer utility infrastructure as well as landscaping specific areas of the project.

All work on this project shall be closely coordinated with project NH 0016(79)67 PCN 027C, the roadway portion of the Mount Rushmore Road reconstruction project.

The Contractor shall coordinate the work and water service shutdown with the City of Rapid City Utility Maintenance Staff and the affected property owners at least 48 hours prior to the work. The Contractor shall complete all water service shut downs and tie-ins so the landowner/business maintains water service during normal business hours. This will require water service tie-ins either before or after hours. Water service shall always be restored as soon as possible. Temporary taps, caps, plugs, hydrants etc. and or water service connections to maintain water service shall be considered incidental to the associated bid items.

Stationing and offsets are based on the roadway centerline alignments for Mount Rushmore Road and intersecting streets. Horizontal alignment data has been included herein.

The Contractor will be required to attend preconstruction as well as construction progress meetings to coordinate the work, discuss issues with the public, and provide a look ahead at project work. It is estimated that these meetings will be on a weekly basis. The Engineer will establish frequency, time, and location of the periodic meetings.

Section C of this plan provides estimated quantities of traffic control barriers estimated to be needed for deep excavations adjacent to the traveling public. All utility work shall be coordinated with the roadway reconstruction project and phasing.

Also included is a traffic control lane closure setup for monument concrete pier work and monument setting within the roadway median between Cathedral Drive and Cleveland Street.

Section D of this provides estimated quantities of erosion and sediment controls to be coordinated with the erosion controls for the roadway reconstruction project. Site restoration work shall be completed by project NH 0016(79)67 with the exception of the proposed plantings located in Section H of this plan set. Also included in this Section D is a Storm Water Pollution Prevention Plan(SWPPP) to be coordinated with the SWPPP for NH 0016(79)67.

**GEOTECHNICAL REPORT**

The proposed work includes subsurface conditions which were evaluated by Terracon Consultants, Inc. A copy of the Geotechnical Engineering Report titled "Mt. Rushmore Road Utility Reconstruction-Phase II, St. Patrick Street to Kansas City Street, Rapid City, South Dakota, March 12, 2013, Terracon Project No. B4135003, City of Rapid City Project No. 12-2051/CIP No. 50867" is included in the bid documents and the Contractor is urged to review the report. The report is for information only and is not a guarantee of subsurface conditions. It should be noted that groundwater was not present at the time of sampling but ground water levels can and do change over time.

**SUBMITTALS**

Submittals are required for all materials to be installed under the contract, including but not limited to:

- Construction schedule plan consistent with the Contractor's construction schedule
- A list of key personnel
- Subcontractors and suppliers
- Hydrants, Pipes, fittings, valves, couplings & appurtenances etc.
- Corrosion materials and suppliers
- Concrete structures & castings
- Bedding, foundation and all other specified materials
- All City and State permits required per plans and specifications
- Sewer bypass pumping plan
- Water main disinfection and de-chlorination plan
- Traffic control plan
- Erosion control materials/products
- Dewatering and sediment collection plan.
- City of Rapid City Trench and Utility Licenses
- Sod and Fertilizer
- Topsoil
- Related work and others as required in the Specifications and these plans.

At least seven (7) working days before his/her need for approval, the Contractor shall forward to the Engineer a minimum of five (5) copies of submittals for all Contractor-furnished products. Submittals shall clearly identify any deviation from the Specifications, and shall be certified and dated by the Contractor. Submittals will be accepted only from the Contractor.

**CONSTRUCTION WORK LIMITS/STAGING AREA.**

The Contractor shall limit all construction activities to the street right-of-way and project easements. The Contractor shall be responsible for any and all disturbance outside of the work limits on this project at no cost to the Owner. Staging/stockpile locations shall be acquired by the Contractor. Quantities for final restoration of the staging areas have not been included in the estimated quantities and shall be the responsibility of the Contractor. Security of the stage/storage site(s) is the responsibility of the Contractor.

**CONTRACTOR FURNISHED PROGRESS SCHEDULES**

At least two weeks prior to the start of the work the Contractor shall furnish the Engineer two copies of a bar chart method progress schedule. The Schedule shall consist of a construction schedule and a brief written narrative in accordance with section 7.70 of the Standard Specifications and coordinated with the proposed sequence for the roadway work in project NH 0016(79)67. The schedule shall contain at a minimum the following information:

1. A time scale to graphically show percentage of work scheduled for completion within the contract completion requirements.
2. Definition and relation of work activities to contract pay items.
3. Work activities (prime contractor and all subcontractor activities) in the order the work will be performed including submittals, approvals, deliveries, and temporary traffic control.
4. All major work activities that are controlling factors in the completion of the work.
5. The time required for each activity and its relationship in time to other activities.
6. The total expected time to complete all work.
7. The expected work shifts in days per week and hours per day and the days when work is not expected to be performed.

**INCIDENTAL WORK**

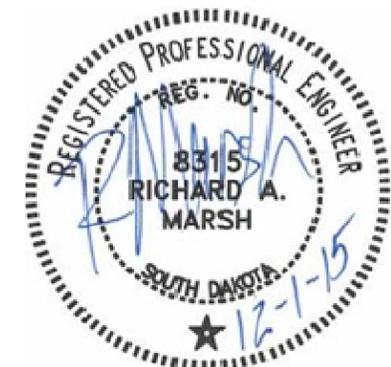
Items not included in the bid form as a pay item under the contract but are included in the plans and specifications as needed to complete the work shall be incidental to the contract lump sum price for Incidental Work. Payment for Incidental work will be made per Section 19 of the specifications.

**CONSTRUCTION STAKING**

The Contractor shall furnish all construction staking on the project in accordance with the Standard Specifications. Electronic files will not be made available to the Contractor. All costs for construction staking shall be incidental to the contract lump sum price for Construction Staking.

**MOBILIZATIONS**

The project will require multiple mobilizations throughout construction. Multiple mobilizations shall not be paid for individually on a case by case basis. The contract bid item for Mobilization shall be the total dollar amount of all mobilizations necessary to complete the entire project.



		Scale:	Revisions:	<p style="color: red; text-align: center;"><b>FOR BIDDING PURPOSES ONLY</b></p> <p style="text-align: center;"><b>MOUNT RUSHMORE ROAD UTILITY RECONSTRUCTION</b></p>	Sheet Title: GENERAL PROJECT NOTES	Sheet No: A5 of A11
		Prepared By: RM Design Date: 07.2015 Internal Job No: 11119.06 Surveyed By: SDDOT Project Number: 13-2139, CIP NO.50950, PCN X03L	Drawn By: RM Print Date: 12.01.2015 Survey Date: 2012			

**UTILITY COMPANY NOTIFICATION**

The Contractor shall be aware that the existing utilities shown in the plans were surveyed prior to the design of this project and might have been relocated or replaced by a new utility facility prior to construction of this project, might be relocated or replaced by a new utility facility during the construction of this project, or might not require adjustment and may remain in its current location. The Contractor shall contact each utility owner and confirm the status of all existing and new utility facilities. The utility contact information is provided elsewhere in the plans or bidding documents.

The Contractor shall be responsible for protecting all existing utilities in place. The Contractor shall coordinate any relocation with the utility companies. The Contractor shall utilize the South Dakota One Call (1-800-781-7474) notification process to provide advance notice of at least 48 hours, excluding weekends and holidays, to inform all South Dakota underground facility operators of intended excavation. The Contractor shall contact all utility companies before work is commenced. Protection and coordination of relocations or adjustment of utilities is the responsibility of the Contractor and no additional payment will be made for this work.

**PERMITS**

The Contractor shall be responsible for obtaining the following permits. All fees and costs associated with obtaining the permits shall be incidental to the contract lump sum price for Incidental Work:

1. Coverage under the SD DENR General Permit for Storm Water Discharges Associated with Construction Activities.
2. SD DENR Dewatering Permit – General Permit to discharge under the South Dakota Surface Water Discharge System for temporary discharge activities in South Dakota
3. City of Rapid City Erosion and Sediment Control Permit
4. City of Rapid City Air Quality Construction Permit
5. City of Rapid City Right to Work Permit
6. SDDOT Permit to Occupy ROW

Fees identified in Section 2.22 of the contract shall be paid for by the City.

**WASTE DISPOSAL SITE**

All material generated by this project must be disposed of at a permitted site. Depending on what material is generated and whether it is contaminated or uncontaminated will determine which permitted facility can accept it. Permitted facilities include construction and demolition debris sites, restricted use sites, and regional landfills. Contact SD DENR Waste Management Program at 605-773-3153 to identify locally permitted disposal sites for various categories of contaminated and uncontaminated materials.

All costs associated with furnishing waste disposal site(s), disposing of waste, maintaining control of access (fence, gates, and signs), and reclamation of the waste disposal site(s) shall be incidental to the various contract items.

**MATERIAL TICKET SUBMITTALS**

The Contractor shall submit all tickets for measurement and payment to the Inspector within 48 hours, per Standard Specifications. Any ticket received later than 48 hours will not be accepted and payment for that item will not be made.

**PRESS RELEASE ANNOUNCEMENTS**

The Contractor shall prepare a Press Release to be released 48 hours prior to any phase change or any other major change that affects traffic flow. A copy of the Press Release shall be given to the Engineer three days prior to the change. The Contractor shall be responsible to keep law enforcement, emergency services, and the traveling public notified of changes in project access. All costs for the Press Releases shall be incidental to the various bid items.

**EXPLORATORY EXCAVATION**

The Contractor shall provide exploratory excavation as needed to determine the location of existing water mains, sewer mains, storm sewer, gas, telephone, fiber optics, electric and other utilities as required. Exploratory excavation shall be completed in advance of sewer and water installation to determine sizing, relocations, grade adjustments or other work required. The exploratory excavation is necessary to verify and/or determine the size, material, type and elevation of the existing underground utilities. The locations and sizes of utilities may not be fully known and must be verified upon construction.

No direct payment will be made for the exploratory excavation on the project. The contractor is responsible for all work necessary to complete the project.

**MAIL DELIVERY**

The Contractor shall be responsible to contact and coordinate with the appropriate postal representative to ensure delivery of mail to businesses located within the project limits. This work shall be considered incidental to the contract lump sum price for Incidental Work.

**MAINTENANCE OF SOLID WASTE DISPOSAL SERVICE**

The streets within the project areas are used for pickup and removal of solid waste from the properties within the project areas. The Contractor shall provide notification of the work to all affected properties and coordinate with city solid waste division (355-3496) to assure alternative locations for weekly solid waste pickup are provided as needed. If necessary the contractor shall transport or convey disposal containers (including containers for recyclable materials) to the alternative locations and return them to the usual collection location on the property following collection on designated solid waste pickup days. This work shall be considered incidental to the contract lump sum price for Incidental Work.

**WARRANTY PERIOD**

The warranty period for this project shall start when the project is 100% complete and a letter of acceptance has been issued by the City of Rapid City per Section 7.65 of the Standard Specifications.

**WEEKEND, HOLIDAY AND NIGHT WORK**

Section 7.48 of the specifications restricts weekend, holiday, and night work.

Work on Saturdays and Sundays will be granted but shall be in accordance with the SDDOT contractual requirements for Project NH 0016(79)67 PCN 027C and it is expected that the Contractor will notify the Engineer and schedule this work according to the following schedule:

Permission to work on Saturday shall be requested at least 72 hours in advance of the given Saturday.

Permission to work on Sunday shall be requested at least 72 hours in advance of the given Sunday.

No work will be allowed on legal holidays except for emergency purposes per Section 7.48. Night work will be restricted per the specifications unless it is necessary for water/sewer service tie-in work in which case the Contractor shall coordinate with the Engineer, City of Rapid City Utility Maintenance Staff, and the affected property/business Owner at least 48 hours in advance of the service shut down.

**SNOW REMOVAL**

Snow removal on Mount Rushmore Road and the intersecting roadways within the project limits shall be the responsibility of the Contractor as long as temporary traffic control devices remain and are in place on the project. The Contractor shall be responsible to remove snow from the project to provide for a safe jobsite. Typically snowfall amounts of 2" and greater shall be removed from the project by the Contractor. However, if smaller snowfall amounts are not able to be treated with chemical or sanding operations, the Contractor will be required to remove the snow. Sanding and chemical treatment will be completed by City of Rapid City Forces once snow is removed from the project.

If all paving operations for curb and gutter and traffic lanes are complete and traffic is returned to full operational use of the roadway, and all temporary traffic controls are removed from the project, then snow removal will be completed by City of Rapid City Forces.

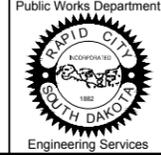
All costs for materials, labor, and equipment for snow removal shall be incidental to the contract lump sum price for Incidental Work.



Prepared By:



Prepared For:



Scale: AS NOTED

Designed By:	Drawn By:
RM	MS
Design Date:	Print Date:
07.2015	12.01.2015
Internal Job No:	Survey Date:
11119.06	2012
Surveyed By:	Project Number:
SDDOT	13-2139, CIP NO.50950, PCN X03L

Revisions:

Number:	Description:

FOR BIDDING PURPOSES ONLY

# MOUNT RUSHMORE ROAD UTILITY RECONSTRUCTION

Sheet Title:

SURVEY  
CONTROL  
DATA

Sheet No:

A6  
of  
A11



### Control Data

Point	Station	Offset	Northing	Easting	Elevation
CP1000	71+61.78	41.06 LT	648058.04	1206748.99	3284.36
CP1001	70+85.45	40.87 RT	647978.89	1206828.20	3286.54
CP1002	67+69.21	42.13 LT	647665.75	1206734.17	3285.22
CP1003	67+09.92	54.51 RT	647603.11	1206828.68	3287.52
CP1004	59+50.52	51.96 LT	646847.78	1206695.35	3298.47
CP1005	60+02.54	53.55 RT	646896.16	1206802.60	3295.86
CP1006	80+52.19	38.03 RT	648924.05	1206948.79	3263.19
CP1007	83+99.19	45.83 RT	649257.84	1207043.96	3257.31
CP1008	86+78.10	44.38 RT	649528.07	1207112.99	3252.74
LM	88+37.40	49.48 RT	649680.92	1207158.15	3249.88
CP1010	89+27.13	48.77 LT	649792.55	1207085.75	3247.89
CP1011	73+63.70	37.53 LT	648259.72	1206759.60	3282.45
CP2773	76+43.69	45.78 LT	648545.28	1206765.82	3278.77
ML1821	84+37.24	41.67 LT	649316.75	1206968.91	3256.41

THE COORDINATES SHOWN ON THIS SHEET ARE BASED ON THE SOUTH DAKOTA STATE PLANE COORDINATE SYSTEM.  
SOUTH ZONE (NAD 83/96) SF = 0.9997870216  
THE ELEVATIONS SHOWN ON THIS SHEET ARE BASED ON NAVD 88

**ALIGNMENTS**

Alignment information provided below was generated using data obtained from SDDOT project alignments. Please contact the Engineer immediately if any discrepancies are discovered between the information provided below and the alignment information provided in the roadway plan set for Project NH 0016(79)67 PCN 027C.

**MOUNT RUSHMORE ROAD/US HIGHWAY 16**

Start Station	End Station	Type	Start Point	End Point	Length	Radius	Direction	Delta angle	PI Station	PI Point
0+00	17+00	Line	(1206543.78',640899.18',0.00')	(1206600.51',642598.24',0.00')	1700.00'		N01°54'45"E			
17+00	19+44.33	Line	(1206600.51',642598.24',0.00')	(1206607.67',642842.46',0.00')	244.33'		N01°40'42"E			
19+44.33	20+55.58	Curve	(1206607.67',642842.46',0.00')	(1206612.17',642953.61',0.00')	111.24'	5000.00'		001°16'29"	19+99.96	(1206609.30',642898.06')
20+55.58	22+99.36	Line	(1206612.17',642953.61',0.00')	(1206624.73',643197.07',0.00')	243.78'		N02°57'12"E			
22+99.36	25+00.63	Curve	(1206624.73',643197.07',0.00')	(1206631.05',643398.23',0.00')	201.27'	5000.00'		002°18'23"	24+00.01	(1206629.91',643297.59')
25+00.63	26+34.20	Line	(1206631.05',643398.23',0.00')	(1206632.56',643531.79',0.00')	133.57'		N00°38'49"E			
26+34.20	29+44.53	Line	(1206632.56',643531.79',0.00')	(1206643.51',643841.93',0.00')	310.33'		N02°01'20"E			
29+44.53	33+57.08	Line	(1206643.51',643841.93',0.00')	(1206658.24',644254.21',0.00')	412.55'		N02°02'46"E			
33+57.08	37+33.53	Line	(1206658.24',644254.21',0.00')	(1206671.40',644630.43',0.00')	376.45'		N02°00'12"E			
37+33.53	41+09.01	Line	(1206671.40',644630.43',0.00')	(1206684.66',645005.68',0.00')	375.48'		N02°01'29"E			
41+09.01	44+81.81	Line	(1206684.66',645005.68',0.00')	(1206700.58',645378.14',0.00')	372.81'		N02°26'51"E			
44+81.81	48+33.69	Line	(1206700.58',645378.14',0.00')	(1206709.42',645729.91',0.00')	351.88'		N01°26'23"E			
48+33.69	55+91.26	Line	(1206709.42',645729.91',0.00')	(1206735.67',646487.03',0.00')	757.57'		N01°59'08"E			
55+91.26	59+71.92	Line	(1206735.67',646487.03',0.00')	(1206747.98',646867.48',0.00')	380.66'		N01°51'12"E			
59+71.92	63+50.56	Line	(1206747.98',646867.48',0.00')	(1206761.61',647245.88',0.00')	378.64'		N02°03'46"E			
63+50.56	75+78.91	Line	(1206761.61',647245.88',0.00')	(1206804.64',648473.47',0.00')	1228.34'		N02°00'28"E			
75+78.91	76+91.46	Curve	(1206804.64',648473.47',0.00')	(1206820.89',648584.61',0.00')	112.55'	511.00'		012°37'11"	76+35.41	(1206806.62',648529.94')
76+91.46	103+76.67	Line	(1206820.89',648584.61',0.00')	(1207498.99',651182.80',0.00')	2685.213'		N14°37'38"E			



**ST CLOUD STREET**

Start Station	End Station	Type	Start Point	End Point	Length	Radius	Direction	Delta angle	PI Station	PI Point
0+00	10+00	Line	(1206248.32',646885.90',0.00')	(1207247.60',646847.93',0.00')	1000.00'		S87°49'26"E			
10+00	10+00.24	Line	(1207247.60',646847.93',0.00')	(1207247.84',646847.92',0.00')	0.24'		S86°01'54"E			
10+00.24	10+00.74	Curve	(1207247.84',646847.92',0.00')	(1207248.34',646847.90',0.00')	0.50'	8.11'		003°32'02"	10+00.49	(1207248.09',646847.90')
10+00.74	10+01	Line	(1207248.34',646847.90',0.00')	(1207248.60',646847.89',0.00')	0.26'		S89°33'56"E			

**ST JAMES STREET**

Start Station	End Station	Type	Start Point	End Point	Length	Radius	Direction	Delta angle	PI Station	PI Point
0+00	10+00	Line	(1206261.96',647264.71',0.00')	(1207261.26',647227.15',0.00')	1000.00'		S87°50'53"E			

**ST JAMES STREET / FAIRVIEW STREET ALLEY**

Start Station	End Station	Type	Start Point	End Point	Length	Radius	Direction	Delta angle	PI Station	PI Point
0+00	3+43.16	Line	(1206370.46',647450.64',0.00')	(1206713.37',647437.62',0.00')	343.16'		S87°49'29"E			
3+43.16	3+83.09	Line	(1206713.37',647437.62',0.00')	(1206753.27',647436.10',0.00')	39.93'		S87°49'26"E			
3+83.09	4+52.09	Line	(1206753.27',647436.10',0.00')	(1206822.22',647433.58',0.00')	69.00'		S87°54'29"E			
4+52.09	5+48.58	Line	(1206822.22',647433.58',0.00')	(1206918.66',647430.10',0.00')	96.50'		S87°55'52"E			

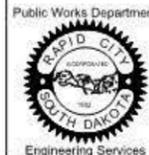
**FAIRVIEW STREET**

Start Station	End Station	Type	Start Point	End Point	Length	Radius	Direction	Delta angle	PI Station	PI Point
0+00	10+00	Line	(1206275.46',647649.67',0.00')	(1207274.74',647611.73',0.00')	1000.00'		S87°49'31"E			

Prepared By:



Prepared For:



Scale:

Designed By: RM  
Design Date: 07.2015  
Internal Job No: 11119.06  
Surveyed By: SDDOT  
Project Number: 13-2139, CIP NO.50950, PCN X03L

Drawn By: RM  
Print Date: 12.01.2015

Revisions:

Number: Description:

FOR BIDDING PURPOSES ONLY

# MOUNT RUSHMORE ROAD UTILITY RECONSTRUCTION

Sheet Title:

HORIZONTAL  
ALIGNMENT  
DATA

Sheet No:

A8  
of  
A11

### CLARK STREET EAST

Start Station	End Station	Type	Start Point	End Point	Length	Radius	Direction	Delta angle	PI Station	PI Point
0+00	5+00	Line	(1206788.05',648000.28',0.00')	(1207287.75',647982.85',0.00')	500.00'		S88°00'08"E			
5+00	5+00.31	Line	(1207287.75',647982.85',0.00')	(1207288.06',647982.83',0.00')	0.31'		S85°38'25"E			
5+00.31	5+00.56	Curve	(1207288.06',647982.83',0.00')	(1207288.31',647982.82',0.00')	0.25'	3.40'		004°12'50"	5+00.44	(1207288.19',647982.82')
5+00.56	5+01	Line	(1207288.31',647982.82',0.00')	(1207288.75',647982.81',0.00')	0.44'		S89°51'15"E			

### CLARK STREET WEST

Start Station	End Station	Type	Start Point	End Point	Length	Radius	Direction	Delta angle	PI Station	PI Point
0+00	5+00	Line	(1206289.23',648042.69',0.00')	(1206788.93',648025.26',0.00')	500.00'		S88°00'08"E			

### FULTON STREET

Start Station	End Station	Type	Start Point	End Point	Length	Radius	Direction	Delta angle	PI Station	PI Point
0+00	5+00	Line	(1206303.28',648443.47',0.00')	(1206802.93',648424.63',0.00')	500.00'		S87°50'29"E			

### SOUTH STREET

Start Station	End Station	Type	Start Point	End Point	Length	Radius	Direction	Delta angle	PI Station	PI Point
0+00	9+97.87	Line	(1206336.66',648709.19',0.00')	(1207302.20',648457.26',0.00')	997.87'		S75°22'35"E			
9+97.87	9+98.92	Line	(1207302.20',648457.26',0.00')	(1207303.22',648457.02',0.00')	1.04'		S76°39'52"E			
9+98.92	9+98.94	Curve	(1207303.22',648457.02',0.00')	(1207303.24',648457.02',0.00')	0.02'	0.46'		002°28'53"	9+98.93	(1207303.23',648457.02')
9+98.94	10+00.06	Line	(1207303.24',648457.02',0.00')	(1207304.32',648456.71',0.00')	1.12'		S74°10'59"E			

### SOUTH STREET / COLUMBUS STREET ALLEY EAST

Start Station	End Station	Type	Start Point	End Point	Length	Radius	Direction	Delta angle	PI Station	PI Point
0+00	0+49.91	Line	(1206822.41',648788.08',0.00')	(1206870.71',648775.49',0.00')	49.91'		S75°23'09"E			
0+49.91	0+98.15	Line	(1206870.71',648775.49',0.00')	(1206917.41',648763.40',0.00')	48.24'		S75°29'04"E			
0+98.15	4+89.60	Line	(1206917.41',648763.40',0.00')	(1207296.36',648665.30',0.00')	391.45'		S75°29'10"E			

### COLUMBUS STREET

Start Station	End Station	Type	Start Point	End Point	Length	Radius	Direction	Delta angle	PI Station	PI Point
0+00	10+00	Line	(1206437.82',649096.80',0.00')	(1207404.91',648842.36',0.00')	1000.00'		S75°15'35"E			

### COLUMBUS STREET / QUINCY STREET ALLEY

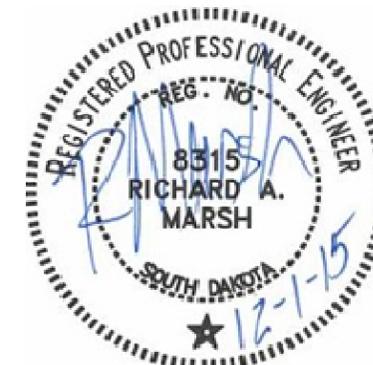
Start Station	End Station	Type	Start Point	End Point	Length	Radius	Direction	Delta angle	PI Station	PI Point
0+00	4+50.11	Line	(1206486.34',649287.98',0.00')	(1206921.45',649172.73',0.00')	450.11'		S75°09'53"E			
4+50.11	4+86.33	Line	(1206921.45',649172.73',0.00')	(1206956.48',649163.55',0.00')	36.22'		S75°18'17"E			
4+86.33	5+48.20	Line	(1206956.48',649163.55',0.00')	(1207016.34',649147.93',0.00')	61.86'		S75°22'47"E			
5+48.20	10+03.64	Line	(1207016.34',649147.93',0.00')	(1207457.09',649033.16',0.00')	455.44'		S75°24'14"E			

### QUINCY STREET

Start Station	End Station	Type	Start Point	End Point	Length	Radius	Direction	Delta angle	PI Station	PI Point
0+00	10+00	Line	(1206538.64',649483.12',0.00')	(1207506.01',649229.74',0.00')	1000.00'		S75°19'22"E			

### QUINCY STREET / KANSAS CITY STREET ALLEY

Start Station	End Station	Type	Start Point	End Point	Length	Radius	Direction	Delta angle	PI Station	PI Point
0+00	4+42.04	Line	(1206592.83',649677.17',0.00')	(1207019.74',649562.51',0.00')	442.04'		S74°57'59"E			
4+42.04	4+96.60	Line	(1207019.74',649562.51',0.00')	(1207072.86',649550.06',0.00')	54.56'		S76°48'29"E			
4+96.60	5+57.68	Line	(1207072.86',649550.06',0.00')	(1207132.06',649535.01',0.00')	61.08'		S75°44'28"E			
5+57.68	8+25.03	Line	(1207132.06',649535.01',0.00')	(1207391.06',649468.70',0.00')	267.35'		S75°38'17"E			



- 1 **ROCK SHOP**  
1405 Mount Rushmore Road  
Phone: N/A  
Owner: Gary D Hermanson  
Second Owner: Paul  
LOT 1 AND E10 ft OF LOT 2
- 2 **BARGAIN PRINTING**  
1321 Mount Rushmore Road  
Phone: 605-721-5595  
Owner: Roger Baker  
E114.1 ft OF LOT 21
- 3 **Jovy's Hair Salon**  
1317 Mount Rushmore Road  
Phone: 605-716-2882  
Owner: Myckiel Franciliso/  
Patterson-Franciliso  
Second Owner: Jovelyn  
E107 ft OF LOT 22-23

Prepared By: 

Prepared For: Public Works Department  
  
Engineering Services

Scale: AS NOTED	Revisions: Number: Description:
Designed By: RM	Drawn By: MS
Design Date: 07.2015	Print Date: 12.01.2015
Internal Job No: 11119.06	Survey Date: 2012
Surveyed By: SDDOT	Project Number: 13-2139, CIP NO.50950, PCN X03L

**FOR BIDDING PURPOSES ONLY**

## MOUNT RUSHMORE ROAD UTILITY RECONSTRUCTION

Sheet Title:	Sheet No:
PROPERTY	A9
OWNERSHIP	of
INFORMATION	A11

- 4 **NOAH'S ARK ANIMAL HOSPITAL**  
1315 Mount Rushmore Road  
Phone: 605-472-7229  
Owner: Susan O. Jones  
LOT 24-25 LESS W45 ft
- 5 **BLACK HILLS DENTAL LABORATORY**  
1313 Mount Rushmore Road  
Phone: 605-343-0518  
Owner: John P. Spencer  
Second Owner: Sharon  
S50 ft OF LOT 1-2
- 6 **FANCIE'S FLOWERS AND GIFTS**  
1301 Mount Rushmore Road  
Phone: 605-342-2829  
Owner: CC and CO LLC  
N90 ft OF LOT 1-2 LESS LOT H1  
OF N90 ft OF LOT 1
- 7 **NORTHERN HILLS TOBACCO and SUPPLY**  
1227 Mount Rushmore Road  
Phone: N/A  
Owner: Mount Rushmore  
Properties II LLC  
S90 ft OF E20 ft OF LOT 29  
AND S90 ft OF LOT 30
- 8 **VACANT**  
1215 Mount Rushmore Road  
Phone: N/A  
Owner: Mount Rushmore  
Properties II LLC  
N50 ft OF E20 ft OF LOT 29  
AND N50 ft OF LOT 30
- 9 **SOUTH DAKOTA REAL ESTATE COMPANY**  
1211 Mount Rushmore Road  
Phone: 605-342-1810  
Owner: Mount Rushmore  
Properties LLC  
S1/2 OF LOT 1-2
- 9a **SOUTH DAKOTA REAL ESTATE COMPANY**  
1201 Mount Rushmore Road  
Phone: 605-342-1810  
Owner: Mount Rushmore  
Properties LLC  
N1/2 OF LOT 1-2
- 10 **WILLY'S SAW SHOP**  
1127 Mount Rushmore Road  
Phone: 605-343-3063  
Owner: Douglas B. Williams  
S95 ft OF LOT 29-30

**REGISTERED PROFESSIONAL ENGINEER**

REG. NO. 8315  
**RICHARD A. MARSH**  
SOUTH DAKOTA  
12-1-15

0' 50' 100'



- 11 **AFFILIATED MORTGAGE**  
1119 Mount Rushmore Road  
Phone: 605-718-9820  
Owner: Douglas B. Williams  
Second Owner: Gloria  
N45 ft OF LOT 28-30
- 12 **ARBEITER and BADIUK LORIE MELONE ATTORNEY MEDIATION AND RUSHMORE FAMILY CHIROPRACTIC**  
1107 Mount Rushmore Road  
Owner: Bentar LLC  
ALL OF LOT 1-5 AND E5 ft OF LOT 6
- 13 **PAPPA JOHN'S PIZZA**  
1009 Mount Rushmore Road  
Phone: 605-388-9999  
Owner: JBTV Properties LLC  
LOT A OF REPLAT OF LOT 1-3
- 14 **SALON DE SOLEIL**  
804 South Street  
Phone: 605-348-2790  
Owner: Hawk Properties LLC  
S80 ft OF LOT 30-32
- 15 **BLACK HILLS BAGELS**  
913 Mount Rushmore Road  
Phone: 605-399-1277  
Owner: Jandd Properties LLC  
Lot C
- 15a **VACANT**  
913 Mount Rushmore Road  
Phone: 605-399-1277  
Owner: Jandd Properties LLC  
S37 ft OF LOT 1-2 AND N10 ft VAC ALLEY S AND ADJ TO SAID LOTS
- 16 **VACANT**  
901 Mount Rushmore Road  
Phone: 605-393-8234  
Owner: Elizabeth M. Frederick  
N103 ft OF LOT 1-2
- 16a **KENNETH E. ORROCK LAW OFFICE**  
807 Columbus Street  
Phone: 605-342-8860  
Owner: Elizabeth M. Frederick  
LOT 3-4 AND E5 ft OF LOT 5 AND N10 ft OF VAC ALLEY S AND ADJ TO SAID LOTS
- 17 **APRIA HEALTHCARE PROGRESSIVE INSURANCE**  
821 Mount Rushmore Road  
Phone: 605-718-2200  
Owner: Bo Hauer/Thorsten  
Second Owner: Paul  
E10 ft OF LOT 28 AND ALL OF LOT 29-32
- 18 **FIRST AMERICAN TITLE**  
Phone: 605-348-4200  
**BOULEVARD DENTAL**  
Phone: 605-593-4223  
**JULIUS AND SIMPSON ATTORNEY AT LAW**  
Phone: 605-716-1000  
**DIALYSIS MANAGEMENT GROUP, LLC**  
Phone: 605-718-0391  
801 Mount Rushmore Road  
Owner: JBMR LLC  
LOT 1-8
- 19 **PHILLIPS 66 (Bob's 66 Inc)**  
721 Mount Rushmore Road  
Phone: 605-348-6747  
Owner: Robert J. Rick  
Second Owner: Patricia  
S100 ft OF LOT 29-32
- 20 **PHILLIPS 66 (Bob's 66 Inc)**  
715 Mount Rushmore Road  
Phone: 605-348-6747  
Owner: Robert J. Rick  
Second Owner: Patricia  
N40 ft OF LOT 29-32
- 21 **Y.M.C.A.**  
815 Kansas City Street  
Phone: 605-718-5437  
Owner: Young Men's Christian  
Association of Rapid City  
LOT 1-16 (ALSO IN SEC 1)

November 19, 2015 9:45:12 a.m. Drawing: LAND OWNERSHIP.DWG (SCHILLE) (P:\PROJECTS & PROPOSALS\11119.00 MT. RUSHMORE RD. UTILITIES RECONSTRUCTION\DRAWINGS\SHEETS\PHASE 3 - SAINT JAMES TO KANSAS CITY)

- 22 FARMERS INSURANCE  
1404 Mount Rushmore Road  
Phone: 605-718-7020  
Owner: DDANDG Properties LLC  
  
W6.13 ft OF N50 ft OF LOT 1  
AND N50 ft OF LOT 2-3
- 23 RUSHMORE ROAD PLAZA  
FRENCH'S CLEANERS  
Phone: 605-721-8724  
JOKERS CASINO  
Phone: 605-343-8332  
CHECK N GO  
Phone: 388-3333  
HONG KONG RUBY MASSAGE  
Phone: 605-341-3959  
1320 Mount Rushmore Road  
Owner: Robert L. Holyoak  
Second Owner: Bonnie  
LOT 5-9
- 24 MEDICINE SHOPPE  
1304 Mount Rushmore Road  
Phone: 605-348-6305  
Owner: Douglas A. Scheller  
Second Owner: Donna  
  
LOT 1-4
- 25 CHIROPRACTIC CLINIC  
PREMIER HOME MORTGAGE  
1220 Mount Rushmore Road  
Phone: 605-716-7373  
Owner: Rushmore RD  
Chiropractic LLC  
  
LOT 2-5
- 26 Cory J. Brown  
Second Owner: Charity  
1212 Mount Rushmore Road  
Phone: 605-348-4319  
  
LOT 6 OF SUBD OF LOT 1 AND  
RESUBD OF LOT 12-16 BLK 9  
OF FLORMANN ADDN
- 27 Wendy F. Kellog  
1210 Mount Rushmore Road  
Phone: N/A  
  
LOT 5-5A OF SUBD OF LOT 1  
AND RESUBD OF LOT 12-16  
BLK 9 FLORMANN ADDN

Prepared By:  Prepared For: Public Works Department

Scale: AS NOTED  
Designed By: RM  
Design Date: 07.2015  
Internal Job No: 11119.06  
Surveyed By: SDDOT  
Project Number: 13-2139, CIP NO.50950, PCN X03L

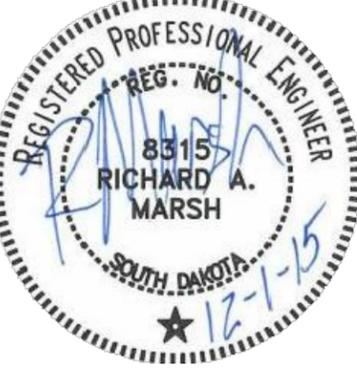
Drawn By: MS  
Print Date: 12.01.2015  
Survey Date: 2012

Revisions: Number: Description:

**FOR BIDDING PURPOSES ONLY**

Sheet Title:	Sheet No:
PROPERTY	A10
OWNERSHIP	of
INFORMATION	A11

- 28 Donald E. Kirshenman  
Second Owner: Donnie  
1208 Mount Rushmore Road  
Phone: N/A  
  
LOT 4-4A OF SUBD OF LOT 1  
AND RESUBD OF LOT 12-16  
BLK 9 FLORMANN ADDN
- 29 HISEGA LLC  
1204 Mount Rushmore Road  
Phone: 605-343-8687  
  
W72.15 ft OF N60 ft OF LOT 1  
LESS LOT H1
- 30 Arlene M. Marshall  
1130 Mount Rushmore Road  
Phone: 605-348-2904  
  
W130 ft OF LOT 67-69
- 31 Douglas B. Williams  
1126 Mount Rushmore Road  
Phone: 605-718-4115  
  
W130 ft OF LOT 65-66
- 32 Joseph Wauson  
Second Owner: Hannah  
1120 Mount Rushmore Road  
Phone: N/A  
  
Lot 34
- 33 A AND B Properties Inc.  
1118 Mount Rushmore Road  
Phone: 605-348-5116  
  
Lot 63



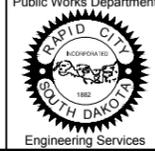
- 34 Williamson Rental, LLC  
1116 Mount Rushmore Road  
Phone: N/A  
  
Lot 62
- 35 Augustine Mascarenas  
Second Owner: Clorinda  
1112 Mount Rushmore Road  
Phone: N/A  
  
Lot 60-61
- 36 Paul Ortiz  
Second Owner: Mary  
1110 Mount Rushmore Road  
Phone: N/A  
  
S1 ft OF LOT 58; ALL OF LOT 59
- 37 Cody R. Lockhart  
1108 Mount Rushmore Road  
Phone: N/A  
  
N24 ft OF LOT 58
- 38 Sherrill A. Berendse  
1012 Mount Rushmore Road  
Phone: 605-343-5298  
  
Lot 56-57
- 39 Yoko Sugawara  
1010 Mount Rushmore Road  
Phone: 605-348-6669  
  
S15 ft OF LOT 54; ALL OF LOT 55
- 40 Historic Rapid City  
731 South Street  
Phone: N/A  
Owner: HISTORIC RAPID CITY  
  
TRACT A OF THE RESUB  
OF LOTS 50-54 LESS S10 ft  
OF SAID TRACT A
- 41 BARKER WILSON LAW FIRM  
730 South Street  
Phone: 605-719-5195  
Owner: Michael A. Wilson  
Second Owner: Paula  
  
S90 ft OF LOT 17-19
- 42 TOMBSTONE TATTOOS  
902 Mount Rushmore Road  
Phone: 605-737-4337  
Owner: Ham Investments LLC  
  
N50 ft OF LOT 17-19  
(ALSO IN SECTION 2)
- 43 VACANT  
902 Mount Rushmore Road  
Phone: N/A  
Owner: Ham Investments LLC  
  
LOT 10-16
- 44 BLACK HILLS COMMUNITY BANK  
840 Mount Rushmore Road  
Phone: 605-343-2422  
Owner: Black Hills Community Bank  
  
LOT A-C; LOT 19-26
- 45 INDEPENDENT OPTICAL  
810 Mount Rushmore Road  
DR. D ALLMER OPTOMETRIST  
808 Mount Rushmore Road  
Phone: 605-787-1031  
Owner: Charles A. Mordhorst  
Second Owner: Patricia  
  
Lot D
- 46 FIRST CHRISTIAN CHURCH  
730 Quincy Street  
Phone: 605-347-5707  
Owner: First Christian Church  
of Rapid City  
  
Lot 17-21
- 47 DR. JOE LYTLE DENTISTRY  
710 Mount Rushmore Road  
Phone: 605-399-9000  
Owner: Joseph M. Lytle  
Second Owner: Winona  
  
S45 ft OF LOT 15-16

November 19, 2015 9:55:12 a.m. Drawing: LAND OWNERSHIP.DWG (SCHILLE) (P:\PROJECTS & PROPOSALS\11119.00 MT. RUSHMORE RD. UTILITIES RECONSTRUCTION\DRAWINGS\SHEETS\PHASE 3 - SAINT JAMES TO KANSAS CITY)

Prepared By:



Prepared For:



Scale: AS NOTED

Designed By:	Drawn By:
RM	MS
Design Date:	Print Date:
07.2015	12.01.2015
Internal Job No:	Survey Date:
11119.06	2012
Surveyed By:	Project Number:
SDDOT	13-2139, CIP NO.50950, PCN X03L

Revisions:

Number:	Description:

FOR BIDDING PURPOSES ONLY

# MOUNT RUSHMORE ROAD UTILITY RECONSTRUCTION

Sheet Title:

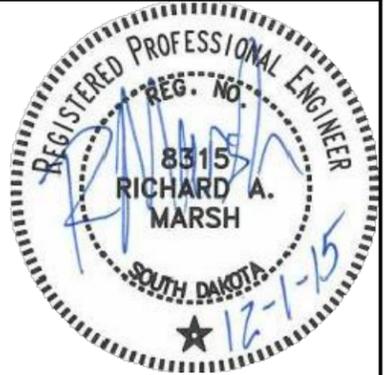
TOPOGRAPHY LEGEND

Sheet No:

A11

of

A11



## TOPO LEGEND

- ▲ CONTROL POINT
- ⊠ TEMPORARY CONTROL POINT
- ⊠ R.O.W. MONUMENT
- IRON PIPE
- IRON ROD
- ⊠ POWER POLE
- ⊠ POWER/LIGHT POLE
- ⊠ LIGHT POLE
- ⊠ GUY POLE
- ⊠ GUY WIRE
- ⊠ TRAFFIC LIGHT
- ⊠ ELECTRIC MANHOLE OR METER
- ⊠ TELEPHONE
- ⊠ TELEPHONE BOX
- ⊠ TELEPHONE MANHOLE
- ⊠ CABLE TV BOX
- ⊠ GAS METER/VALVE
- ⊠ WATER MANHOLE
- ⊠ WELL/TYPE
- ⊠ WATER VALVE
- ⊠ POST INDICATOR VALVE
- ⊠ CURB STOP
- ⊠ FIRE HYDRANT
- ⊠ YARD HYDRANT
- ⊠ SPRINKLER HEAD
- ⊠ WATER METER
- ⊠ CATHODIC TEST STATION
- ⊠ HOSEBIB
- ⊠ SANITARY MANHOLE
- ⊠ SEWER CLEAN OUT
- ⊠ SEPTIC TANK
- WOOD OR STEEL POST
- ⊠ VENT
- ⊠ STUMP
- ⊠ BUSH
- ⊠ DECIDUOUS TREE
- ⊠ CONIFEROUS TREE
- ⊠ STORM SEWER MANHOLE
- ⊠ STORM INLET
- ⊠ SINGLE POST SIGN OR PARK METER
- ⊠ MULTI POST SIGN
- ⊠ DELINEATOR
- BRIDGE COLUMN

- ⊠ RAILROAD SIGNAL
- ⊠ BOLLARD
- ⊠ BPH# BOREHOLE OR TESTHOLE
- ⊠ UNKNOWN MANHOLE
- ⊠ COLUMN
- ⊠ M.B. MAILBOX
- RIGHT OF WAY
- BUILDING
- CONCRETE
- GUARDRAIL
- RAILROAD
- S SANITARY SEWER
- W WATER LINE
- X" SS STORM SEWER
- X—X—X— BARBED WIRE FENCE
- /—/—/— CHAIN LINK FENCE
- WOOD FENCE
- =— WOVEN WIRE FENCE
- OHP OVERHEAD POWER
- OHC OVERHEAD CABLE TV
- OHT OVERHEAD TELEPHONE
- TV UG CABLE TV (UNKNOWN)
- UGE UNDERGROUND ELECTRIC (UNKNOWN)
- UGT UNDERGROUND TELEPHONE (UNKNOWN)
- FO FIBER OPTIC
- G GAS LINE (UNKNOWN)
- KNB KANEB PIPELINE
- MDU MONTANA DAKOTA UTILITIES
- WBI WILLISTON BASIN INTERSTATE PIPELINE
- BEC BUTTE ELECTRIC UG
- BHE BLACK HILLS ELEC UG
- BHP BLACK HILLS POWER UG
- GWT GOLDEN WEST
- KNO KNOLOGY COMMUNICATIONS
- MIDCO MIDCONTINENT COMMUNICATIONS
- MRT MOUNT RUSHMORE TELEPHONE
- CLNK CENTURY LINK COMMUNICATIONS
- WRE WEST RIVER ELEC UG
- ACP ASBESTOS CEMENT PIPE
- CIP CAST IRON PIPE
- CMP CORRUGATED METAL PIPE
- DIP DUCTILE IRON PIPE
- FRP FIBERGLASS REINFORCED PIPE
- HDPE HIGH DENSITY POLYETHYLENE PIPE
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- VCP VITRIFIED CLAY PIPE

## PROPOSED WATER AND SEWER LEGEND

- ⊠ 11 1/4 BEND
- ⊠ 22 1/2 BEND
- ⊠ 45° BEND
- ⊠ 90° BEND
- ⊠ CAP OR PLUG
- ⊠ COUPLING
- ⊠ VERTICAL BEND
- ⊠ CROSS
- ⊠ CURB STOP
- ⊠ GATE VALVE
- ⊠ FIRE HYDRANT
- ⊠ REDUCER/INCREASER
- ⊠ TEE
- ⊠ THRUSTBLOCK
- ⊠ CATHODIC TEST STATION
- ⊠ CLEANOUT
- ⊠ MANHOLE
- SANITARY SEWER MAIN
- WATER MAIN
- RIGHT OF WAY
- WORK LIMIT
- RIGID INSULATION