

SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION

TRANSPORTATION ENHANCEMENT GRANT

SAINT JOSEPH STREET LANDSCAPING



Submitted By:

CITY OF RAPID CITY

September, 2005

SAINT JOSEPH STREET LANDSCAPING

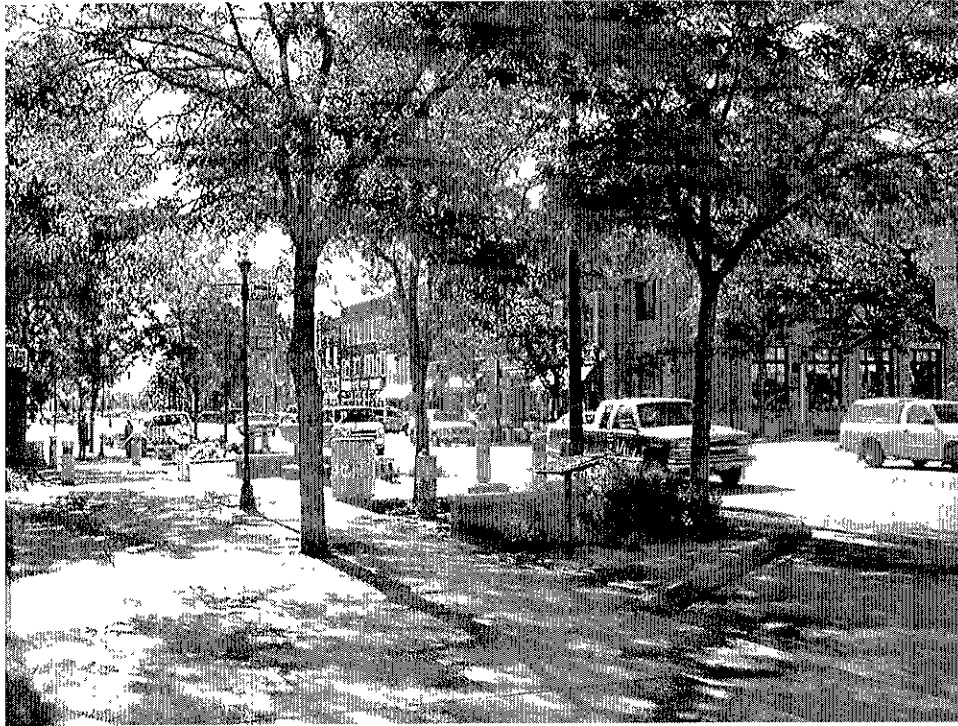
Saint Joseph Street is one of Rapid City's primary 'west to east' arterial streets connecting the Westside to the Downtown Business District, the Pennington County Court House Complex, South Dakota School of Mines and Technology and ultimately, the Heartland Express or Highway 79 (Appendix A: City Map). This section of St. Joe accommodates approximately 20,000 Average Daily Traffic, including two of the City's Public Transportation Routes (Appendix A: Bus Routes). This section also connects the downtown business areas with adjacent public parking areas and the Court House Complex, resulting in significant pedestrian use of this corridor (Appendix A: Downtown Parking Guide). The goal of this project is to enhance this multi-modal transportation corridor with landscaping that will visually and environmentally improve the quality of this transportation system.



Intersection WITHOUT landscaping: Fifth and Saint Joseph Street

In August 2004, the Rapid City Beautification Committee initiated and received a \$25,000 Gwendolyn Stearns Foundation Grant for this project. In 2005, the City Council committed an additional \$25,000 for a \$50,000 local match and authorized submittal of a Transportation Enhancement Grant Application (Appendix B: Application and

Resolution). Total cost is estimated at \$277,000 (Appendix C: Cost Estimate and Preliminary Plan). Additional public hearings will be held as this project develops.



Intersection WITH landscaping: Seventh and Main Street

The City of Rapid City currently regulates landscape improvements “to provide for the orderly, safe, healthful, attractive development of the area within the city and to promote the health, safety and general welfare of the community.” The objectives include clearly and visibly delineating vehicular and pedestrian circulation, enhancing the environmental and aesthetic conditions, and reducing storm water runoff, heat, noise, wind and air turbulence, and glare from pavement and automobile lights.

The City has existing streetscape improvements, primarily on Main Street (west bound) and the Sixth and Seventh Blocks of Saint Joseph Street. These areas not only include landscape improvements, but also hardscape elements such as statues, pedestrian lighting, banners, bollards, waste containers and other features that lend character to the streetscape. It is anticipated that some of these elements will be expanded into the St. Joe areas as well, either independently or as part of this project. Maintenance of these areas is the responsibility of the Rapid City Park and Recreation Department and the Public Works Department.



Intersection WITHOUT landscaping: Second and Saint Joseph Street



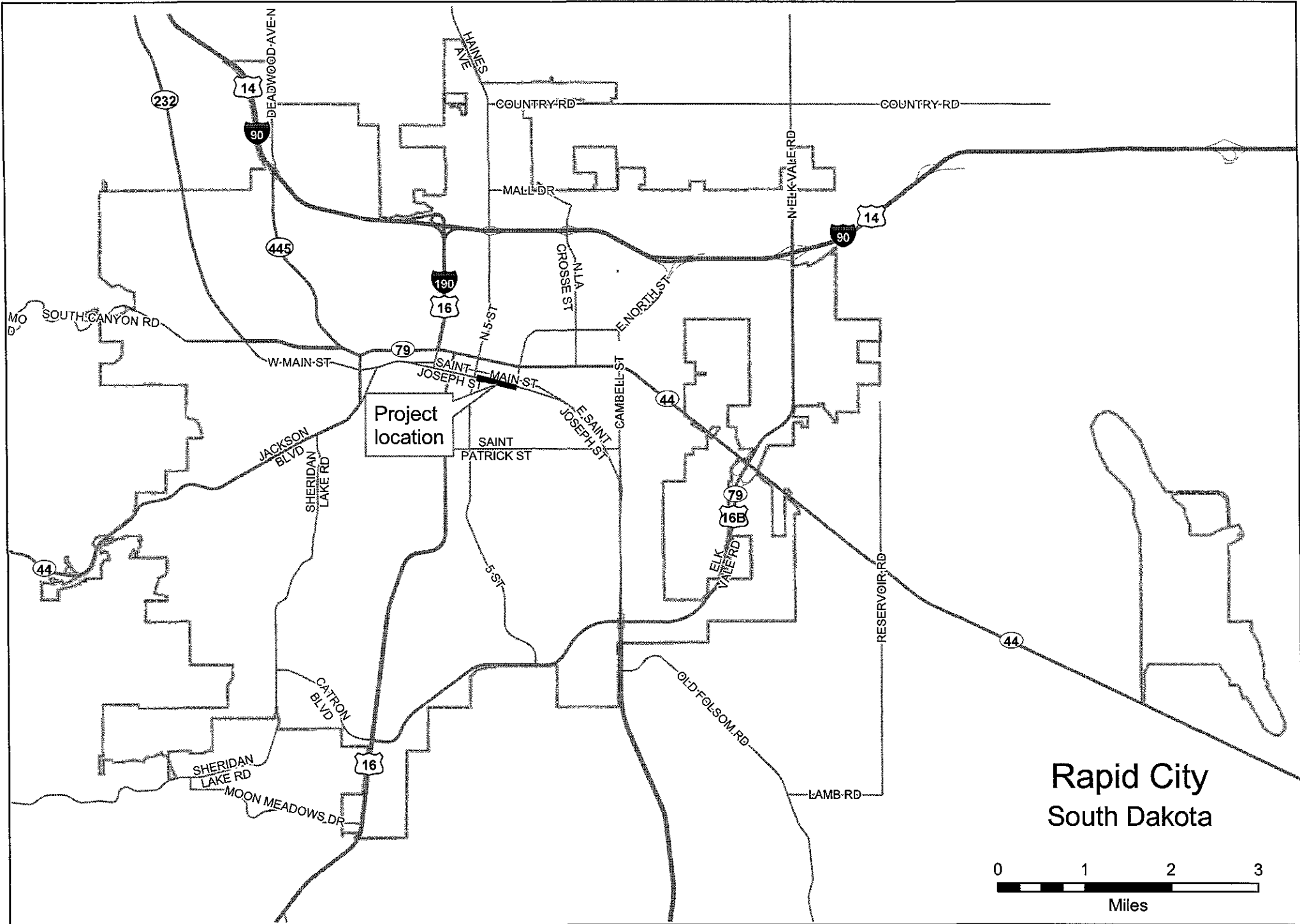
Intersection WITH landscaping: Sixth and Main Street

SAINT JOSEPH STREET LANDSCAPING - APPENDIX A

City Map

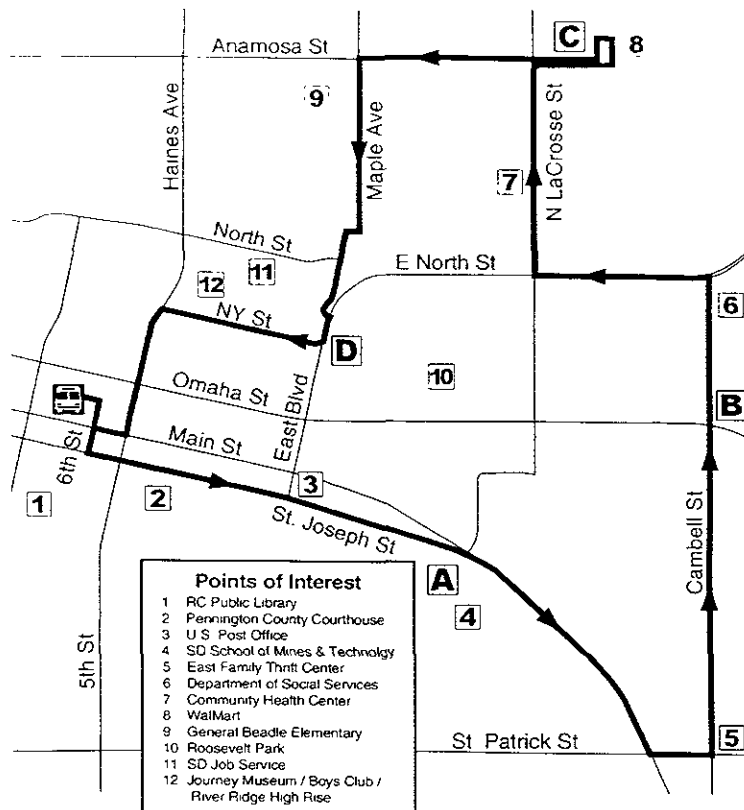
Bus Routes

Downtown Parking Guide



2A

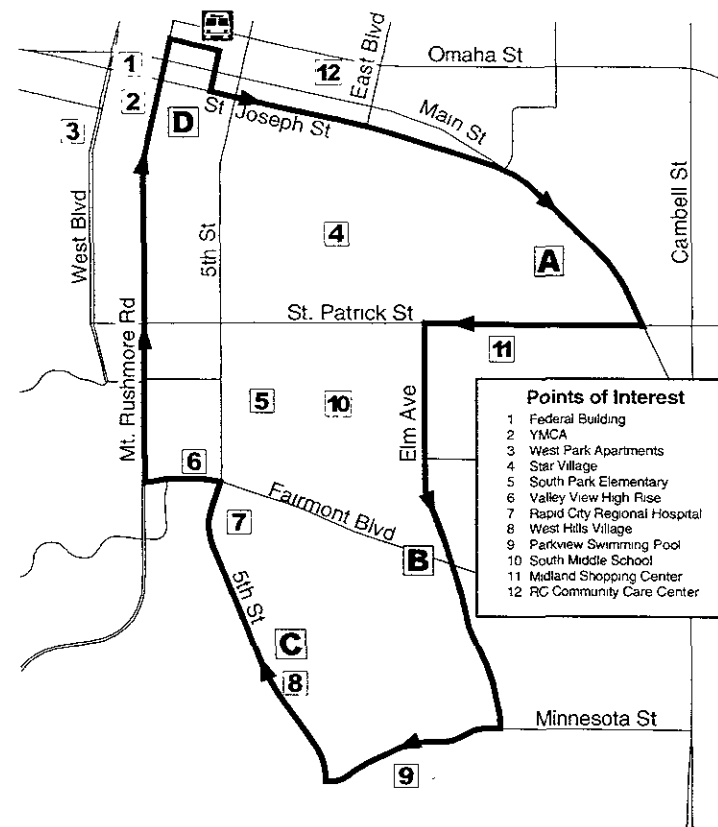
Route 2A - Northeast



3B

Route 3B - South

PW083005-13



ROUTE 2A / NORTHEAST

DEPART	ARRIVE	ARRIVE	ARRIVE	ARRIVE	ARRIVE
Milo Barber Transportation Center	SD School of Mines and Technology	Cambell St and Omaha St	WalMart	East Blvd and New York St	Milo Barber Transportation Center
6:25 AM	6:30 AM	6:35 AM	6:40 AM	6:45 AM	6:50 AM
7:35 AM	7:40 AM	7:45 AM	7:50 AM	7:55 AM	8:00 AM
8:45 AM	8:50 AM	8:55 AM	9:00 AM	9:05 AM	9:10 AM
9:55 AM	10:00 AM	10:05 AM	10:10 AM	10:15 AM	10:20 AM
11:05 AM	11:10 AM	11:15 AM	11:20 AM	11:25 AM	11:30 AM
12:15 PM	12:20 PM	12:25 PM	12:30 PM	12:35 PM	12:40 PM
1:25 PM	1:30 PM	1:35 PM	1:40 PM	1:45 PM	1:50 PM
2:35 PM	2:40 PM	2:45 PM	2:50 PM	2:55 PM	3:00 PM
3:45 PM	3:50 PM	3:55 PM	4:00 PM	4:05 PM	4:10 PM
4:55 PM	5:00 PM	5:05 PM	5:10 PM	5:15 PM	5:20 PM

TO OBTAIN ADDITIONAL INFORMATION CALL 394-6631

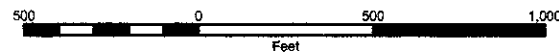
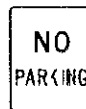
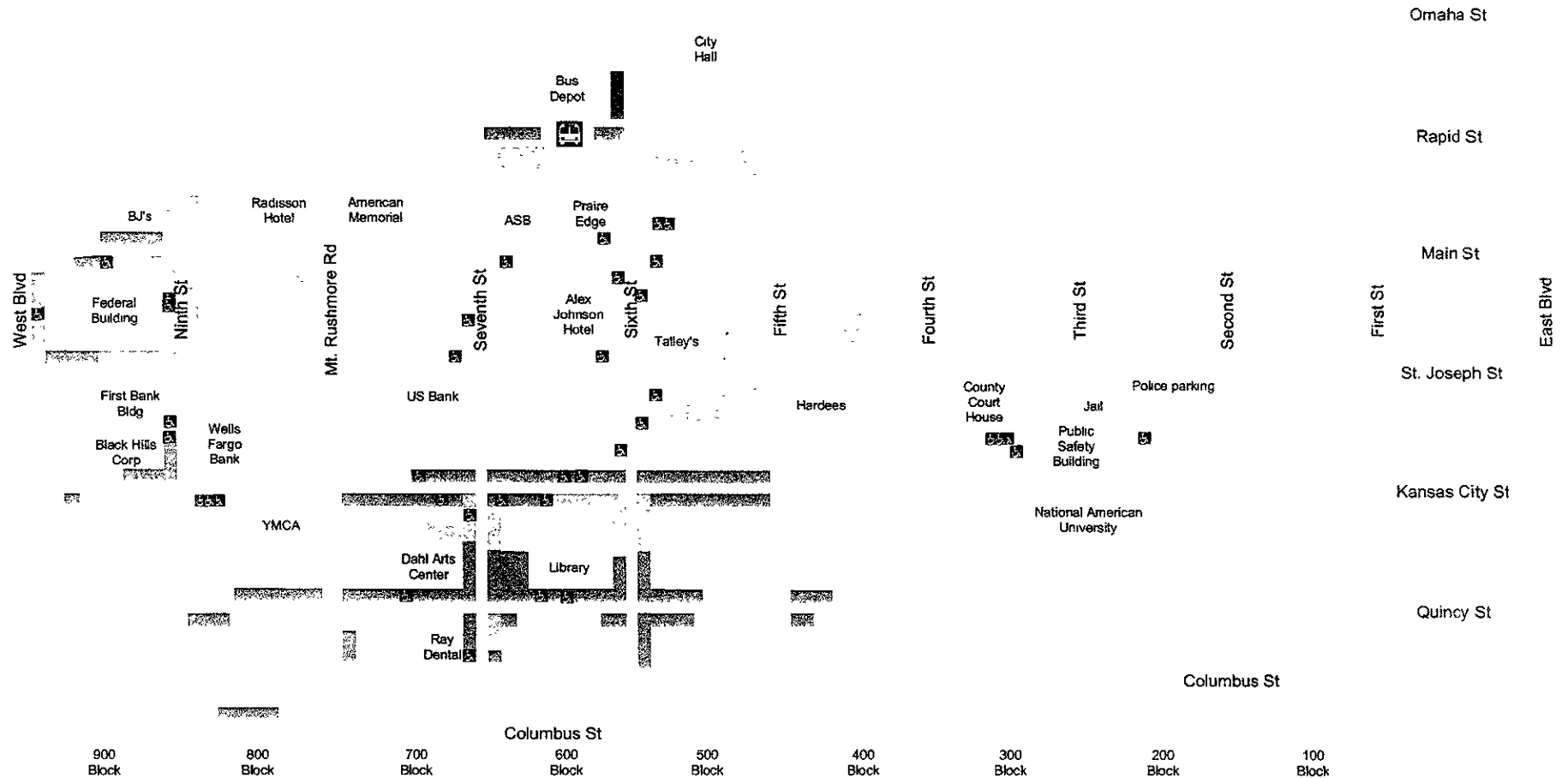
ROUTE 3B / SOUTH

DEPART	ARRIVE	ARRIVE	ARRIVE	ARRIVE	ARRIVE
Milo Barber Transportation Center	SD School Of Mines and Technology	Elm St and East Fairmont Blvd	Fifth St and Texas St	Mt Rushmore Road and Kansas City St	Milo Barber Transportation Center
7:00 AM	7:05 AM	7:10 AM	7:15 AM	7:20 AM	7:25 AM
8:10 AM	8:15 AM	8:20 AM	8:25 AM	8:30 AM	8:35 AM
9:20 AM	9:25 AM	9:30 AM	9:35 AM	9:40 AM	9:45 AM
10:30 AM	10:35 AM	10:40 AM	10:45 AM	10:50 AM	10:55 AM
11:40 AM	11:45 AM	11:50 AM	11:55 AM	12:00 PM	12:05 PM
12:50 PM	12:55 PM	1:00 PM	1:05 PM	1:10 PM	1:15 PM
2:00 PM	2:05 PM	2:10 PM	2:15 PM	2:20 PM	2:25 PM
3:10 PM	3:15 PM	3:20 PM	3:25 PM	3:30 PM	3:35 PM
4:20 PM	4:25 PM	4:30 PM	4:35 PM	4:40 PM	4:45 PM
5:30 PM	5:35 PM	5:40 PM	5:45 PM	5:50 PM	5:55 PM

TO OBTAIN ADDITIONAL INFORMATION CALL 394-6631

Your Guide to Downtown Parking

PW083005-13



Legend

Street Parking

- 30 MINUTE ZONE
- 1 HOUR PARKING
- 2 HOUR PARKING
- 2 HOUR METERS
- 4 HOUR METERS
- 10 HOUR METERS
- HANDICAP SPACE

Parking Lots

- 2 HOUR METERS
- 2 HOUR PARKING
- 3 HOUR PARKING
- 10 HOUR METERS
- LEASED PARKING

SAINT JOSEPH STREET LANDSCAPING - APPENDIX B

Grant Application

Local Sponsor Resolution

SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION
TRANSPORTATION ENHANCEMENT GRANT APPLICATION

Date: September 5, 2005

Project Title. *Please name your project to reference by name, for example, The Lost Bridge Trail or The Villa Katherine Renovation.*

Saint Joseph Street Landscape Improvements

Project Category

Please check the following categories that qualify your project for funding. It is possible your project may fall into one or more categories. If your community is applying for multiple projects in different categories that are unlike in project scope or are in different locations, please fill out separate project applications for reviewing and tracking purposes.

- ☐ Pedestrian/Bicycle Facilities
- ☐ Safety and Educational activities for pedestrians and bicyclists
- ☐ Acquisition of scenic easements and scenic or historic sites.
- ☐ Scenic/Historic Highways (Tourist/Welcome Center Facilities)
- ☒ Landscaping/Scenic Beautification
- ☐ Historic Preservation
- ☐ Rehabilitation of Historic Transportation Buildings, Structures and Facilities
- ☐ Preservation of Abandoned Railway Corridors for Conversion to Trails
- ☐ Control/Removal of Outdoor Advertising
- ☐ Archaeological Planning and Research
- ☐ Environmental Mitigation
- ☐ Transportation Museums

Project Sponsor. *This contact should be knowledgeable about the project and the application. The sponsor may be contacted for more information and will receive all correspondence about the project.*

Project Sponsor (Local government or state agency) City of Rapid City

Contact Person: Rodney Johnson

Address: 300 Sixth Street

City: Rapid City State: SD Zip: 57701

Phone Number: 605-394-4165 Fax Number 605-394-6636

E-mail address rod.johnson@rcgov.org

Co-Sponsors (if applicable) _____

Resolution:

The local sponsor must submit a resolution certifying:

- compliance with local zoning and planning regulations
- support of the application
- maintenance of the project
- payment of required match

Project Costs. *Costs only associated with the enhancement funds requested. Do not include non-reimbursable costs. The eligible costs are defined under Section C, Funding Eligibility in the guidelines.*

Federal Enhancement Share: \$ 227,000 _____

Sponsor Share: \$ 50,000 _____

Total Cost: \$ 277,000 _____

Project Description. *Give a general description of your project, for example, project is to design and construct a bike trail along an abandoned railroad corridor, two pedestrian bridges and signs connecting the communities of Mainville and Plainville*

Landscape improvements in sidewalk and public right of way areas along Saint Joseph Street from Sixth Street to East Boulevard

Project Elements. *List each individual element involved in project, for example, engineering for trail, bridges and signs, grade railbed, pave aggregate or asphalt bike trail, install signs, construct and install bridges.*

Design, sidewalk removal, irrigation, landscape materials (trees, shrubs, topsoil, mulch) and hardscape materials (sidewalk, bollards, tree grates)

Location and Length of Project. *Give a specific location including the streets, rivers, parks, from and to locations including the municipalities and give the length in miles, for example, 5 miles along the abandoned CNW RR from Main Street to Walnut Street in Mainville.*

Public right of way areas along Saint Joseph Street from Sixth Street to East Boulevard

Transportation Link. *Give an explanation of how your project is linked to transportation. Transportation Enhancement activities projects must have a direct relationship to the intermodal transportation system (highways, railroads, air, water, public transit), but not necessarily to a currently planned transportation project. This relationship may be established by function, proximity, or impact.*

Saint Joseph Street is one of Rapid City's primary 'west to east' arterial streets connecting the Westside to the Downtown Business District, the Pennington County Court House Complex, South Dakota School of Mines and Technology and ultimately, the Heartland Express (Highway 79). This section of St. Joe accommodates approximately 20,000 Average Daily Traffic, including two of the City's Public Transportation Routes. This section also connects the downtown business areas with adjacent public parking areas and the Court House Complex, resulting in significant pedestrian use of this corridor.

Project Map. *Attach an 8 1/2" by 11" map of the project area. Reference street names, rivers and landmarks, and connection to existing facilities*

Photographs. *Include photographs of the project or site, for example, the end points of a bikeway or the inside and outside of a building.*

Present Condition. *What is the present condition of the project site?*

Saint Joseph Street was reconstructed in 1994 and is in relatively good condition. However, this section lacks in landscape amenities compared with other areas of Main and Saint Joseph Street that provide a positive experience for vehicular and pedestrian traffic by softening, cooling and beautifying the urban streetscape.

List all agencies or entities affected by the proposed project. *Indicate whether they support or oppose the project.*

Rapid City Common Council	supports
Mayor's Beautification Committee	supports

Project Relationship. *What relationship does your project have with other planned improvements? Check the box that applies to your project.*

- ☒ Project is stand-alone project.
- ☐ Project is proposed to be developed and implemented with another project.
- ☐ Project is a part of a larger project (not being implemented at the same time).
- ☒ Project is an extension of a completed project.

Describe any project elements that will be funded with other funds, but implemented at the same time. A detailed cost breakdown should be included further in the funding section.

It is anticipated that the Presidential Statue Project will expand in this area. This project is privately funded, may or may not take place at the same time, and is independent of this project other than proper planning and design to avoid potential conflicts.

FUNDING

The project cost estimate should only document total costs associated with the enhancement funds requested. Do not include non-reimbursable costs. Costs should be accurate cost estimates prepared by an engineer or architect.

Cost Estimates Prepared By: Rodney K. Johnson, P.E. **Phone No.:** 605-394-4165

Agency/Firm: Rapid City Public Works Department

Signature: 

Project Cost Estimate

Types of Work	<u>Federal Share</u>	<u>Sponsor Share</u>	<u>Total</u>
Preliminary Engineering	\$ <u>0</u>	\$ <u>20,000</u>	\$ <u>20,000</u>
Right-of-way Acquisition	\$ <u>0</u>	\$ <u>0</u>	\$ <u>0</u>
Utility Relocations	\$ <u>0</u>	\$ <u>0</u>	\$ <u>0</u>
Construction	\$ <u>227,000</u>	\$ <u>25,000</u>	\$ <u>252,000</u>
Construction Engineering (Supervision)	\$ <u>0</u>	\$ <u>5,000</u>	\$ <u>5,000</u>
Total Enhancement Dollars Requested	\$ <u>227,000</u>	\$ <u>50,000</u>	\$ <u>277,000</u>

Sources of Sponsor Share

Types of Work	<u>Sponsor Share \$\$</u>	<u>Funding Source</u>
Preliminary Engineering	\$ <u>20,000</u>	<u>City of Rapid City</u>
Right-of-way Acquisition	\$ <u>0</u>	
Utility Relocations	\$ <u>0</u>	
Construction	\$ <u>25,000</u>	<u>Private Grant</u>
Construction Engineering (Supervision)	\$ <u>5,000</u>	<u>City of Rapid City</u>
Total Sponsor Share	\$ <u>50,000</u>	

Construction Items. *List a detailed cost estimate of each individual item in the project. Some examples are lighting, landscaping, grade path, pave path, signs, etc.*

Item	Description	Unit	Quantity	Unit Price	Total
	See Appendix C				
Total Cost of Construction Items					

Total Cost of Project. *Including enhancement funding and non-reimbursable costs.*

\$ 277,000

IMPLEMENTATION TIME SCHEDULE**Time Schedule**

Types of Work	<u>Fiscal Year</u>	<u>Start Date</u>	<u>Completion Date</u>
Preliminary Engineering	_____	<u>April 2006</u> _____	<u>April 2007</u> ____
Right-of-way Acquisition	_____	_____	_____
Utility Relocations	_____	_____	_____
Construction	_____	<u>April 2007</u> _____	<u>April 2008</u> ____
Construction Engineering	_____	<u>April 2007</u> _____	<u>April 2008</u> ____

**A RESOLUTION AUTHORIZING THE SUBMITTAL OF REQUEST
FOR GRANT FUNDING FOR TRANSPORTATION ENHANCEMENTS
AND AUTHORIZING THE MAYOR TO SIGN APPLICATION
ON BEHALF OF THE CITY**

WHEREAS, the President of the United States of America signed into law the Transportation Equity Act of 1998 (TEA-21) on June 9, 1998; and

WHEREAS, TEA-21 provides for the distribution of funds to local governments for Transportation Enhancements; and

WHEREAS, the State of South Dakota has set aside TEA-21 funds for Transportation Enhancements; and

WHEREAS, the local governments have been granted an opportunity to submit requests for grant support on or before February 1, 2006; and

WHEREAS, the Saint Joseph Street Landscape Improvements Project will visually enhance the community's "west to east" arterial through the Downtown Business District; and

WHEREAS, this project would potentially qualify for TEA-21 funds; and

WHEREAS, the City of Rapid City supports authorizing an application to request a grant of TEA-21 funds to be used to complete the Saint Joseph Street Landscape Improvements Project.

NOW THEREFORE, BE IT RESOLVED by the City of Rapid City that the Common Council does hereby authorize the submittal of applications for funding for the project listed below.

PROJECT NAME	TOTAL GRANT COST	CITY'S COST
Saint Joseph Street Landscape Improvements	\$227,000	\$50,000

BE IT FURTHER RESOLVED, that in accordance with the requirement that local governments must provide not less than 18.05% cash match for the grant that the City of Rapid City hereby agrees to provide matching funds in the amount of \$50,000 for this project; and

BE IT FURTHER RESOLVED, that the City of Rapid City hereby agrees to insure that the project complies with all local zoning and planning regulations; and

BE IT FURTHER RESOLVED, that the City of Rapid City hereby agrees to provide proper maintenance for the Saint Joseph Street Landscape Improvements as required by the Federal Highway Acts as amended and supplemented thereto.

Dated this ____ day of September, 2005.

CITY OF RAPID CITY

Mayor

ATTEST:

Finance Officer

(SEAL)

SAINT JOSEPH STREET LANDSCAPING - APPENDIX C

Cost Estimate

Preliminary Plan

**ST. JOSEPH STREET LANDSCAPING
STATEMENT OF PROBABLE COSTS**

PW083005-13

QUANTITY	UNIT	ITEM	UNIT PRICE	EXTENDED PRICE
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AREA "A" Supplied by 6th Street Irrigation Backflow Preventer

300	s.f.	Remove Sidewalk	\$ 2.00	\$ 600.00
10	c.y.	Remove Soil	\$ 20.00	\$ 200.00
8	c.y.	Topsoil	\$ 25.00	\$ 200.00
1	ea.	Pipe Connection @ 6th	\$ 100.00	\$ 100.00
35	l.f.	Irrigation Pipe	\$ 3.00	\$ 105.00
9	ea.	Sprinkler Heads	\$ 60.00	\$ 540.00
1	ea.	Quick Coupler	\$ 200.00	\$ 200.00
1	ea.	Cut & Plug Existing Pipe	\$ 100.00	\$ 100.00
50	s.f.	Sidewalk	\$ 4.50	\$ 225.00
3	ea.	Tree Grate	\$ 1,000.00	\$ 3,000.00
3	ea.	Tree	\$ 600.00	\$ 1,800.00
10	ea.	Shrub	\$ 75.00	\$ 750.00
70	c.f.	Mulch w/ Landscape Fabric	\$ 3.00	\$ 210.00
4	ea.	Bollards	\$ 500.00	\$ 2,000.00
		Sub Total		\$ 10,030.00
		Contingency		\$ 2,006.00
		Total Area "A"		\$ 12,036.00

Area "B" Supplied by 4th Street Irrigation Backflow Preventer

1900	s.f.	Remove Sidewalk	\$ 2.00	\$ 3,800.00
75	c.y.	Remove Soil	\$ 20.00	\$ 1,500.00
70	c.y.	Topsoil	\$ 25.00	\$ 1,750.00
300	l.f.	Irrigation Pipe	\$ 3.00	\$ 900.00
92	ea.	Sprinkler Heads	\$ 60.00	\$ 5,520.00
6	ea.	Quick Coupler	\$ 200.00	\$ 1,200.00
1	ea.	1 1/2" Backflow Preventer	\$ 1,000.00	\$ 1,000.00
6	ea.	1" Control Valve	\$ 200.00	\$ 1,200.00
12	ea.	Valve Box	\$ 50.00	\$ 600.00
1	l.s.	Control Wire	\$ 100.00	\$ 100.00
1	ea.	Controller	\$ 1,000.00	\$ 1,000.00
15	ea.	Tree Grate	\$ 1,000.00	\$ 15,000.00
15	ea.	Tree	\$ 600.00	\$ 9,000.00
210	ea.	Shrub	\$ 75.00	\$ 15,750.00
570	c.f.	Mulch w/ Landscape Fabric	\$ 3.00	\$ 1,710.00
24	ea.	Bollards	\$ 500.00	\$ 12,000.00
		Sub Total		\$ 72,030.00
		Contingency		\$ 14,406.00
		Total Area "B"		\$ 86,436.00

QUANTITY	UNIT	ITEM	UNIT PRICE	EXTENDED PRICE
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Area "C" Supplied by 3rd Street Irrigation Backflow Preventer

1500	s.f.	Remove Sidewalk	\$ 2.00	\$ 3,000.00
55	c.y.	Remove Soil	\$ 20.00	\$ 1,100.00
50	c.y.	Topsoil	\$ 25.00	\$ 1,250.00
260	l.f.	Irrigation Pipe	\$ 3.00	\$ 780.00
76	ea.	Sprinkler Heads	\$ 60.00	\$ 4,560.00
4	ea.	Quick Coupler	\$ 200.00	\$ 800.00
1	ea.	1 1/2" Backflow Preventer	\$ 1,000.00	\$ 1,000.00
1	ea.	Metal Enclosure	\$ 1,000.00	\$ 1,000.00
3	ea.	1" Control Valve	\$ 200.00	\$ 600.00
7	ea.	Valve Box	\$ 50.00	\$ 350.00
1	l.s.	Control Wire	\$ 100.00	\$ 100.00
1	ea.	Controller	\$ 1,000.00	\$ 1,000.00
4	ea.	Tree Grate	\$ 1,000.00	\$ 4,000.00
4	ea.	Tree	\$ 600.00	\$ 2,400.00
125	ea.	Shrub	\$ 75.00	\$ 9,375.00
450	c.f.	Mulch w/ Landscape Fabric	\$ 3.00	\$ 1,350.00
16	ea.	Bollards	\$ 500.00	\$ 8,000.00
		Sub Total		\$ 40,665.00
		Contingency		\$ 8,133.00
		Total Area "C"		\$ 48,798.00

Area "D" Supplied by 1st Street Irrigation Backflow Preventer

2345	s.f.	Remove Sidewalk	\$ 2.00	\$ 4,690.00
90	c.y.	Remove Soil	\$ 20.00	\$ 1,800.00
85	c.y.	Topsoil	\$ 25.00	\$ 2,125.00
375	l.f.	Irrigation Pipe	\$ 3.00	\$ 1,125.00
120	ea.	Sprinkler Heads	\$ 60.00	\$ 7,200.00
7	ea.	Quick Coupler	\$ 200.00	\$ 1,400.00
1	ea.	1 1/2" Backflow Preventer	\$ 1,000.00	\$ 1,000.00
1	ea.	Metal Enclosure	\$ 1,000.00	\$ 1,000.00
8	ea.	1" Control Valve	\$ 200.00	\$ 1,600.00
15	ea.	Valve Box	\$ 50.00	\$ 750.00
1	l.s.	Control Wire	\$ 100.00	\$ 100.00
1	ea.	Controller	\$ 1,000.00	\$ 1,000.00
7	ea.	Tree Grate	\$ 1,000.00	\$ 7,000.00
12	ea.	Tree	\$ 600.00	\$ 7,200.00
230	ea.	Shrub	\$ 75.00	\$ 17,250.00
700	c.f.	Mulch w/ Landscape Fabric	\$ 3.00	\$ 2,100.00
28	ea.	Bollards	\$ 500.00	\$ 14,000.00
		Sub Total		\$ 71,340.00
		Contingency		\$ 14,268.00
		Total Area "D"		\$ 85,608.00

Total Project Items

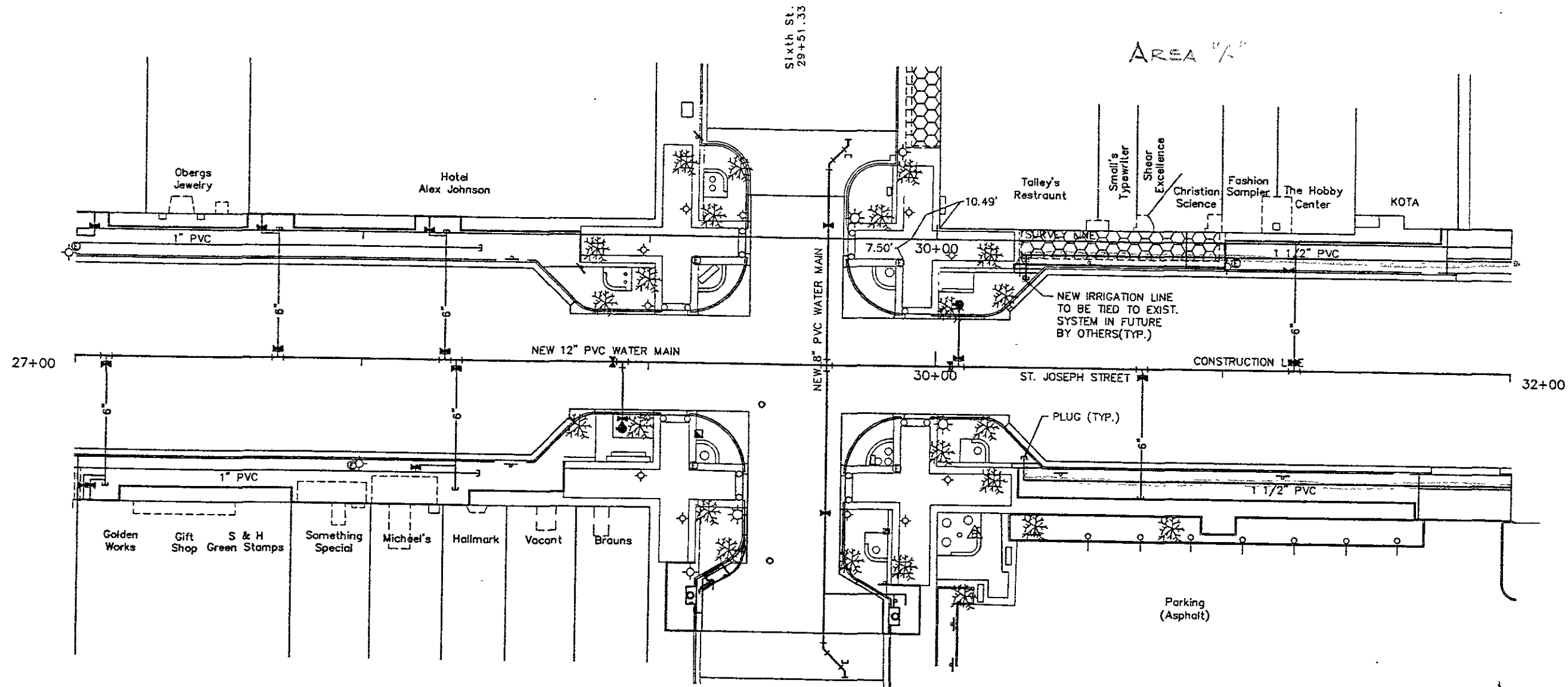
1	ea.	Mobilization	\$ 9,561.00	\$ 9,561.00
1	ea.	Traffic Control	\$ 9,561.00	\$ 9,561.00
		Total Project Items		\$ 19,122.00

TOTAL CONSTRUCTION COST	\$ 252,000.00
CONSULTANT DESIGN FEE	\$ 25,000.00
TOTAL PROJECT COST	\$ 277,000.00

ALL IRRIGATION LINES INSTALLED
UNDER CONCRETE PAVEMENT,
OR CURB AND GUTTER SHALL BE SLEEVED.
SEE TABLE BELOW.
2" LINE - 3" SLEEVE
(ALL IRRIGATION LINES BEHIND CURB &
GUTTER WILL NOT BE SLEEVED)



SCALE: 1" = 20'



— MAYOR —  — DIRECTOR —

CITY of RAPID CITY

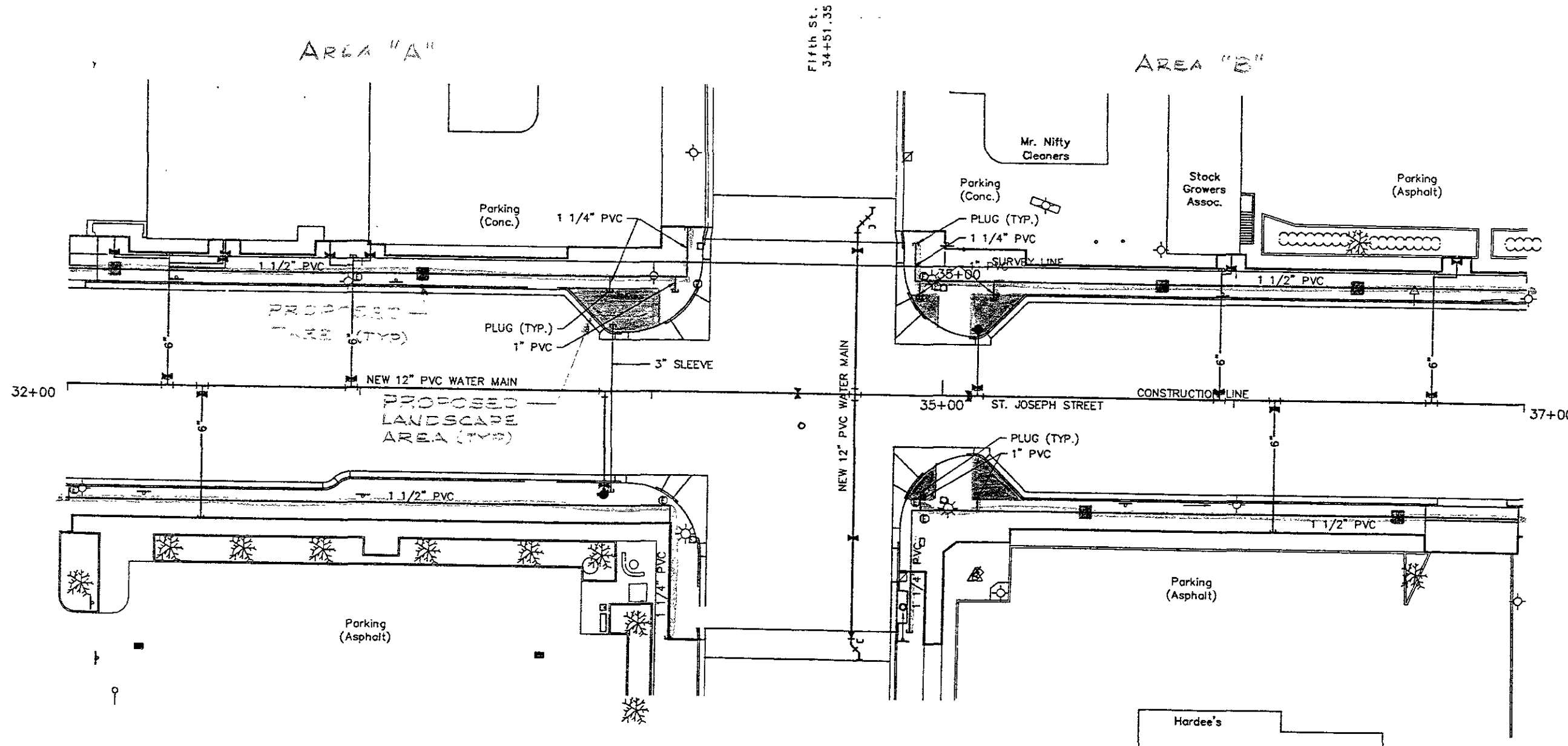
ST. JOSEPH STREET
IRRIGATION PLANS
STA. 27+00 TO STA. 32+00
SSW92-413

DESIGNED BY: DLK	DATE: MAY 23, 1992	APPROVED BY:
DRAWN BY: JDF	SCALE: AS SHOWN	
CHECKED BY: DLK	FILED:	DATE:
REVISIONS:		


ALL IRRIGATION LINES INSTALLED
UNDER CONCRETE PAVEMENT,
OR CURB AND GUTTER SHALL BE SLEEVED.
SEE TABLE BELOW.
2" LINE - 3" SLEEVE
(ALL IRRIGATION LINES BEHIND CURB &
GUTTER WILL NOT BE SLEEVED)



SCALE: 1" = 20'



MAYOR



DIRECTOR

CITY of RAPID CITY
ST. JOSEPH STREET
IRRIGATION PLANS
STA. 32+00 TO STA. 37+00
SSW92-413

DESIGNED: BJK	DATE: MAY 28, 1992	APPROVED:
DRAWN: EF	SCALE: AS SHOWN	
CHECKED: BJK	FILED:	DATE:
REVISIONS:		

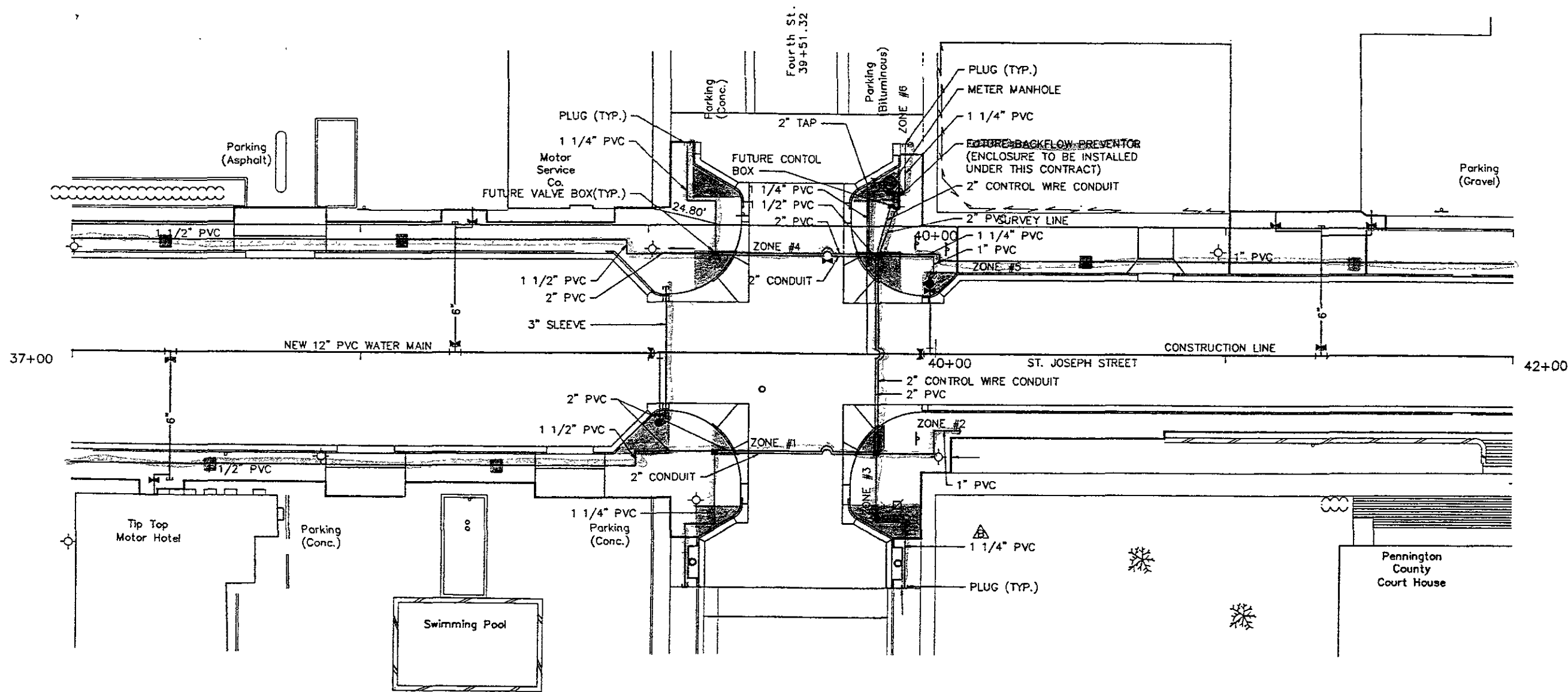
3037

ALL IRRIGATION LINES INSTALLED
UNDER CONCRETE PAVEMENT,
OR CURB AND GUTTER SHALL BE SLEEVED.
SEE TABLE BELOW.
2" LINE - 3" SLEEVE
(ALL IRRIGATION LINES BEHIND CURB &
GUTTER WILL NOT BE SLEEVED)



SCALE: 1" = 20'

AREA "B"



— MAYOR — — DIRECTOR —



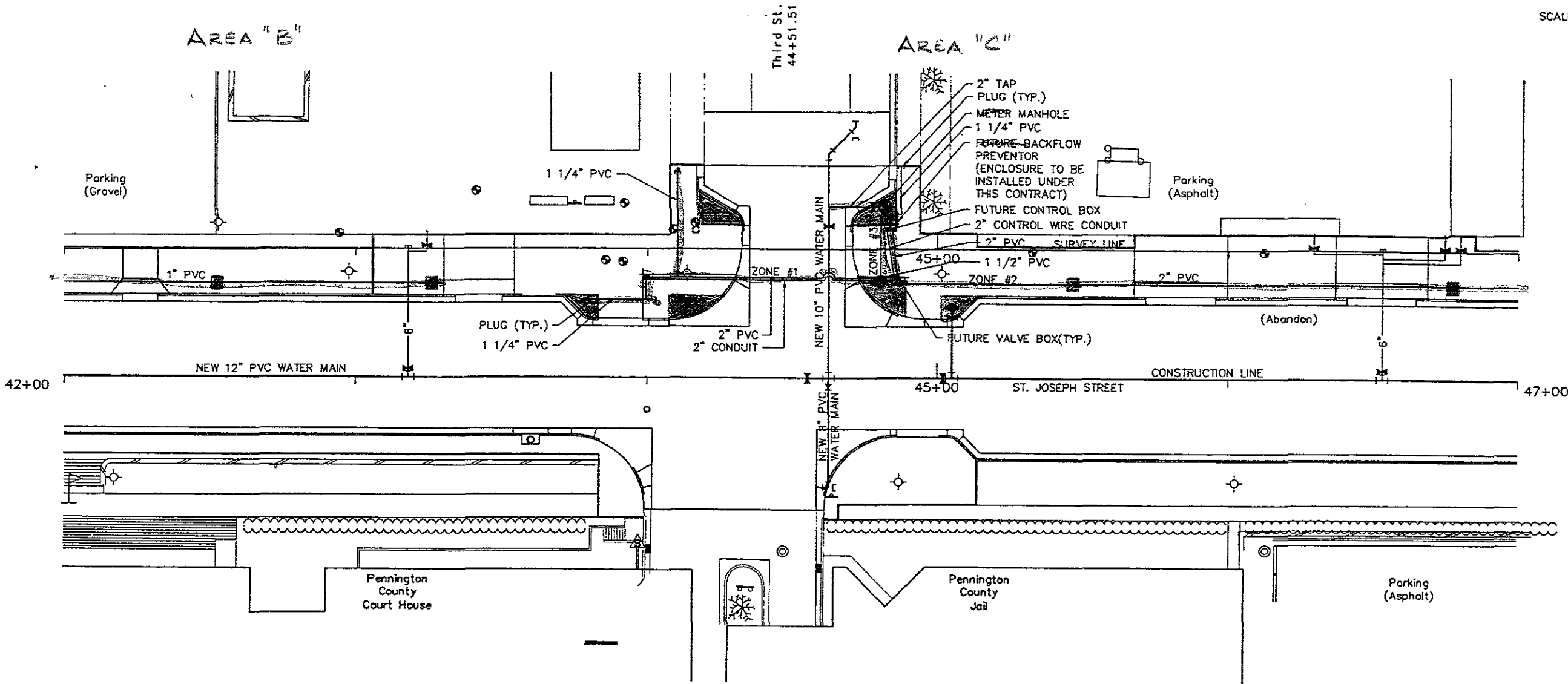
CITY of RAPID CITY

ST. JOSEPH STREET
IRRIGATION PLANS
STA: 37+00 TO STA. 42+00
SSW92-413


DESIGNED BY	DATE: MAY 28, 1982	APPROVED
DRAWN BY	SCALE: AS SHOWN	
CHECKED BY	FILED	DATE
		DATE

ALL IRRIGATION LINES INSTALLED
UNDER CONCRETE PAVEMENT,
OR CURB AND GUTTER SHALL BE SLEEVED.
SEE TABLE BELOW.
2" LINE - 3" SLEEVE
(ALL IRRIGATION LINES BEHIND CURB &
GUTTER WILL NOT BE SLEEVED)

SCALE: 1" = 20'



MAYOR



DIRECTOR

CITY of RAPID CITY

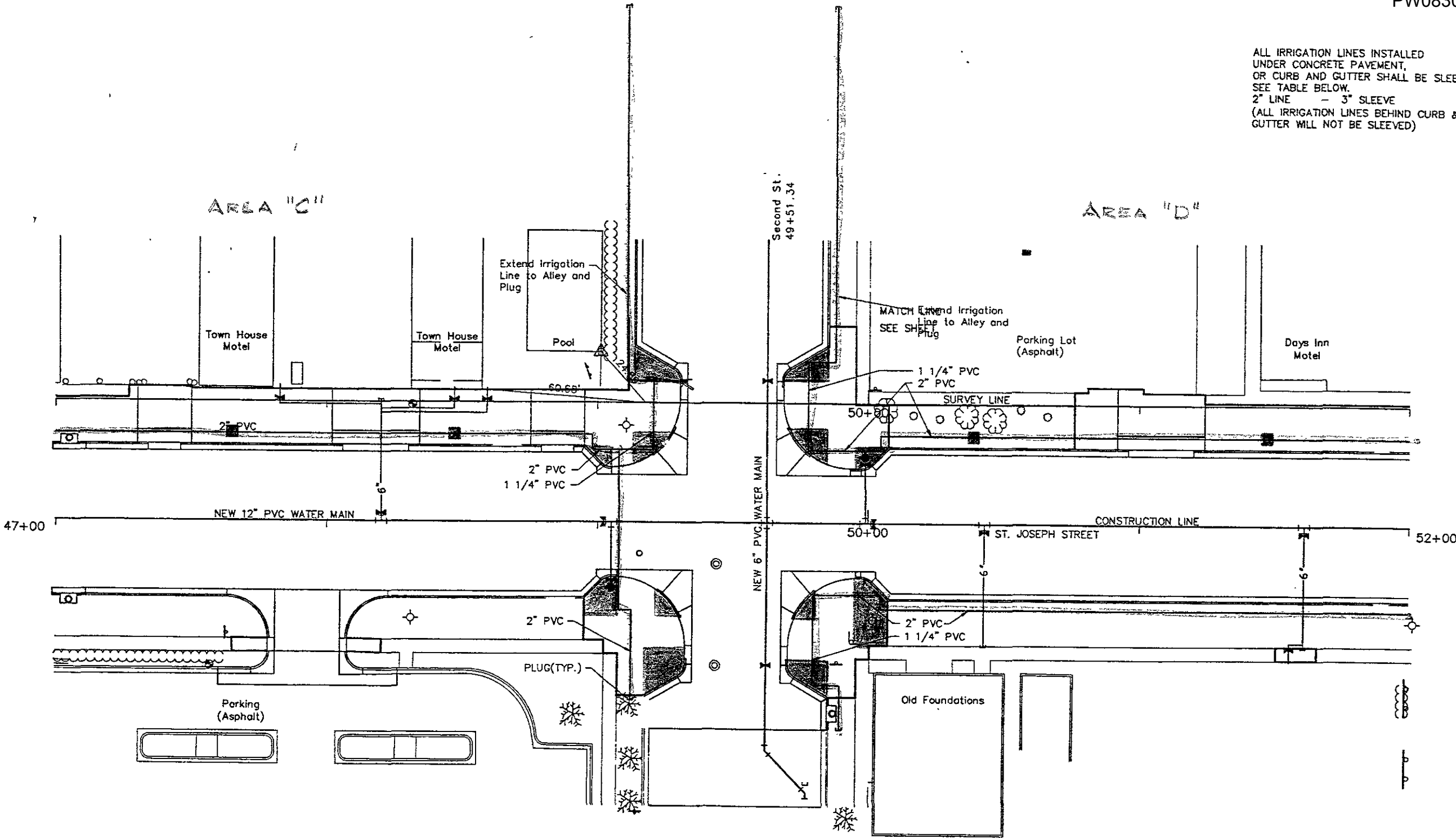
ST. JOSEPH STREET
IRRIGATION PLANS
STA: 42+00 TO STA. 47+00
SSW92-413

DESIGNED: DLK	DATE: MAY 28, 1992	APPROVED:	32
DRAWN: EF	SCALE: AS SHOWN	DATE:	
CHECKED: DLK	FILED:	DATE:	37

ALL IRRIGATION LINES INSTALLED
UNDER CONCRETE PAVEMENT,
OR CURB AND GUTTER SHALL BE SLEEVED.
SEE TABLE BELOW.
2" LINE - 3" SLEEVE
(ALL IRRIGATION LINES BEHIND CURB &
GUTTER WILL NOT BE SLEEVED)



SCALE: 1" = 20'



— MAYOR —



— DIRECTOR —

CITY of RAPID CITY

ST. JOSEPH STREET
IRRIGATION PLANS
STA. 47+00 TO STA. 52+00
SSW92-413

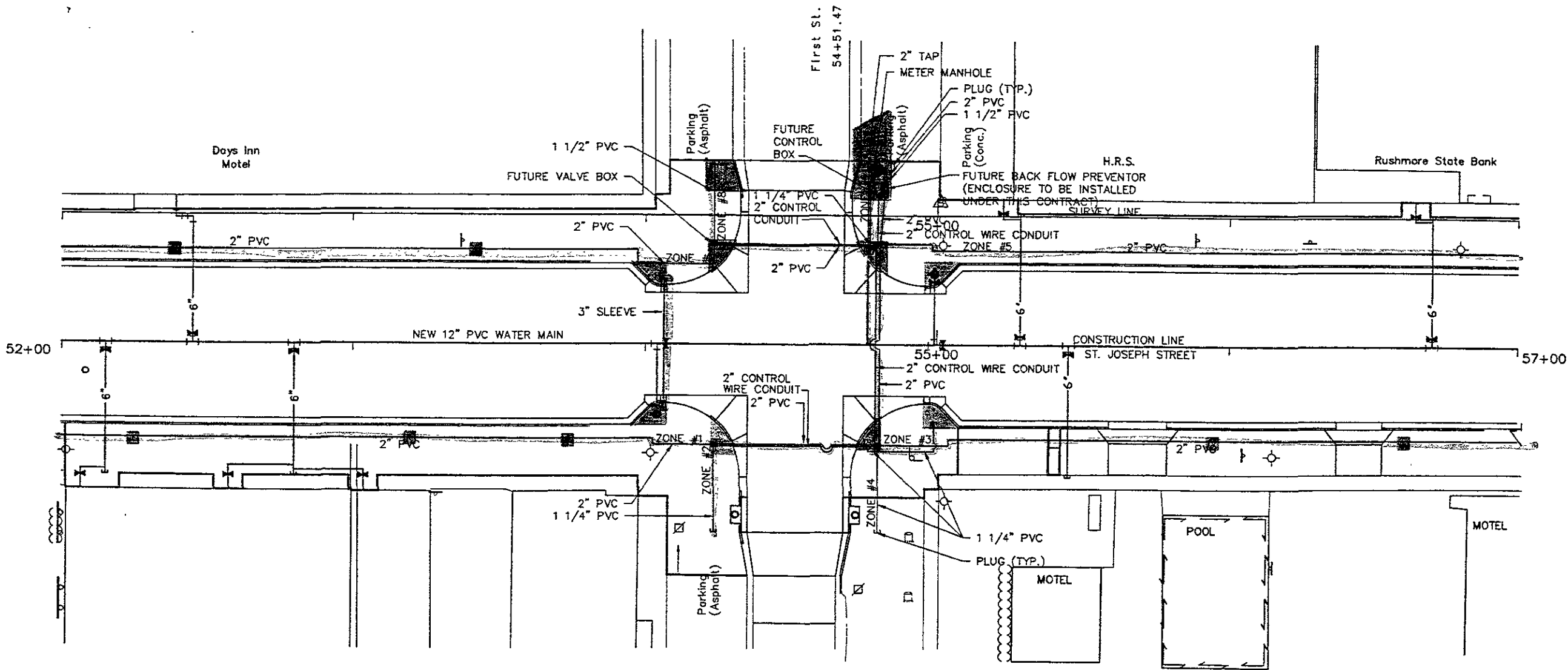
DESIGNED BY	DATE: MAY 20, 1992	APPROVED	33
DRAWN BY	SCALE: AS SHOWN	DATE:	
CHECKED BY	FILED	DATE:	
REVISIONS:		DATE:	37

ALL IRRIGATION LINES INSTALLED
UNDER CONCRETE PAVEMENT,
OR CURB AND GUTTER SHALL BE SLEEVED.
SEE TABLE BELOW.
2" LINE - 3" SLEEVE
(ALL IRRIGATION LINES BEHIND CURB &
GUTTER WILL NOT BE SLEEVED)



SCALE: 1" = 20'

AREA "D"



— MAYOR —



— DIRECTOR —

CITY of RAPID CITY

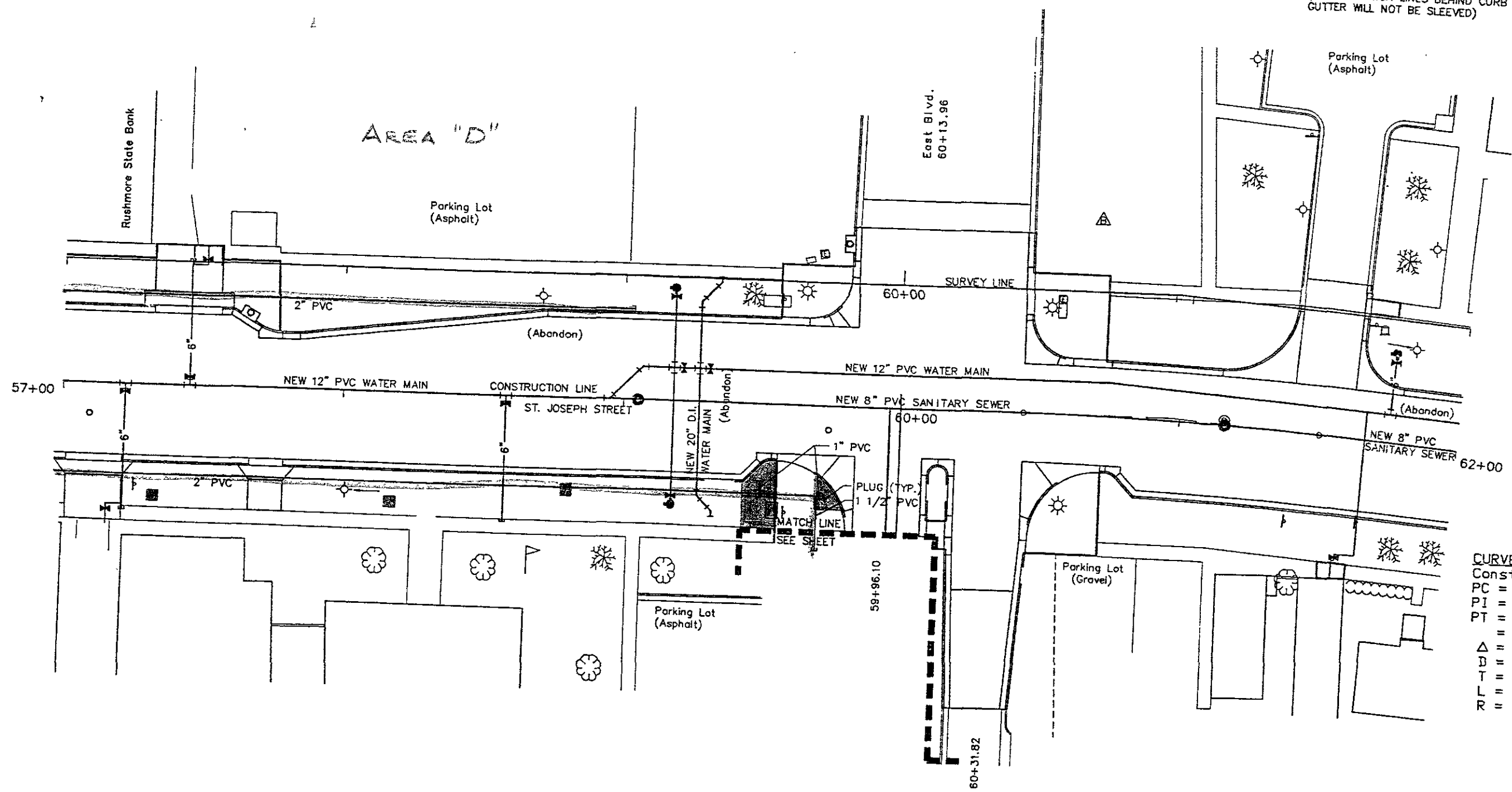
ST. JOSEPH STREET
IRRIGATION PLANS
STA. 52+00 TO STA. 57+00
SSW92-413

DESIGNED BY	DATE: MAY 25, 1992	APPROVED:
DRAWN BY	SCALE: AS SHOWN	
CHECKED BY	FILED:	DATE:

ALL IRRIGATION LINES INSTALLED
UNDER CONCRETE PAVEMENT,
OR CURB AND GUTTER SHALL BE SLEEVED.
SEE TABLE BELOW.
2" LINE - 3" SLEEVE
(ALL IRRIGATION LINES BEHIND CURB &
GUTTER WILL NOT BE SLEEVED)




SCALE. 1" = 20'



CURVE DATA
Constr. C
PC = 60+43.82
PI = 60+96.98
PT = 61+50.08 Bk.
= 61+50.14 Ah.
Δ = 4°33'38" R
D = 4'17'31"
T = 53.16'
L = 106.26'
R = 1334.98'

MAYOR



DIRECTOR

CITY of RAPID CITY

ST. JOSEPH STREET
IRRIGATION PLANS
STA. 57+00 TO STA. 62+00
SSW92-413

DESIGNED BY	DATE MAY 25, 1992	APPROVED
DRAWN BY	SCALE AS SHOWN	
CHECKED BY	FILED	DATE

35