

**BUILDING CODE SUMMARY
2006 INTERNATIONAL BUILDING CODE**

Project Name: **MAIN STREET SQUARE**
A/E Project No.: **09.1592.L01**
Prepared By:
Date:

- Occupancy Group: (Sections 303) Groups S-2. Existing Parking Garage: S-2
- Type of Construction: (Section 602.2, and Table 503) - Type II-B
- Fire Resistance of Exterior Walls: (Section 704.5, Table 602)

Toilet/Maintenance Vehicle Building per Single Use exception 1 (406.3.5.1)
Gross SF = 981sf
North Wall - 0 Hours
East Wall - 0 Hours
South Wall - 0 Hours
West Wall - 0 Hours

Mechanical/Electrical Building per Alternative materials, design and methods of construction (104.11)
Gross SF = 567sf
North Wall - 2 Hours
East Wall - 2 Hours
South Wall - 2 Hours
West Wall - 0 Hours
Roof-Ceiling - 2 hours

- Allowable Floor Area: (Table 406.3.5 - Open Parking Garages)

Basic Allowable Area - Type II-B: Group S-2, Occupancy = 50,000 s.f./floor

Sprinkler Increase: N/A

Frontage Increase: N/A

Total Allowable Area: 50,000 s.f.

Actual Floor Area: 48,500 s.f.

- Allowable Stores/Height: (Table 406.3.5 - Open Parking Garages)

Basic Allowable Height - Type II-B: Group S-1 = 8 Tiers

Actual Stores/Height - Type II-B: Groups S-1 Occupancies = 3 Tiers

- Mixed Occupancies: N/A

- Occupancy Separations - Single Use - as per Section 406.3.5.1 exception. Two hour fire barriers are proposed per alternative materials, design and methods of construction (104.11). For the 600 sf Mechanical/Electrical Building located within an open parking garage using exception 406.3.5.1 (only allows for 1000sf of office, waiting, and toilet rooms) The 981 sf Toilet/Maintenance Vehicle Building will not be separated, as allowed per exception 406.3.5.1 and the Maintenance Vehicle Storage will be ventilated per 406.4.2.

- Type of Construction: Fire-Resistive Requirements (Section 602.1, Table 601)

Element	Tlts/Mech
A. Exterior Walls - Bearing	= 0/0 Hours
B. Interior Walls - Bearing	= 0/0 Hours
C. Exterior Walls - Non-Bearing	= 0/0 Hours
D. Interior Walls - Non-Bearing	= 0/0 Hours
E. Structural Frame	= 0/0 Hours
F. Shaft Enclosures	= 0/0 Hours (Section 707)
G. Roof/Roof-Ceiling	= 0/0 Hours

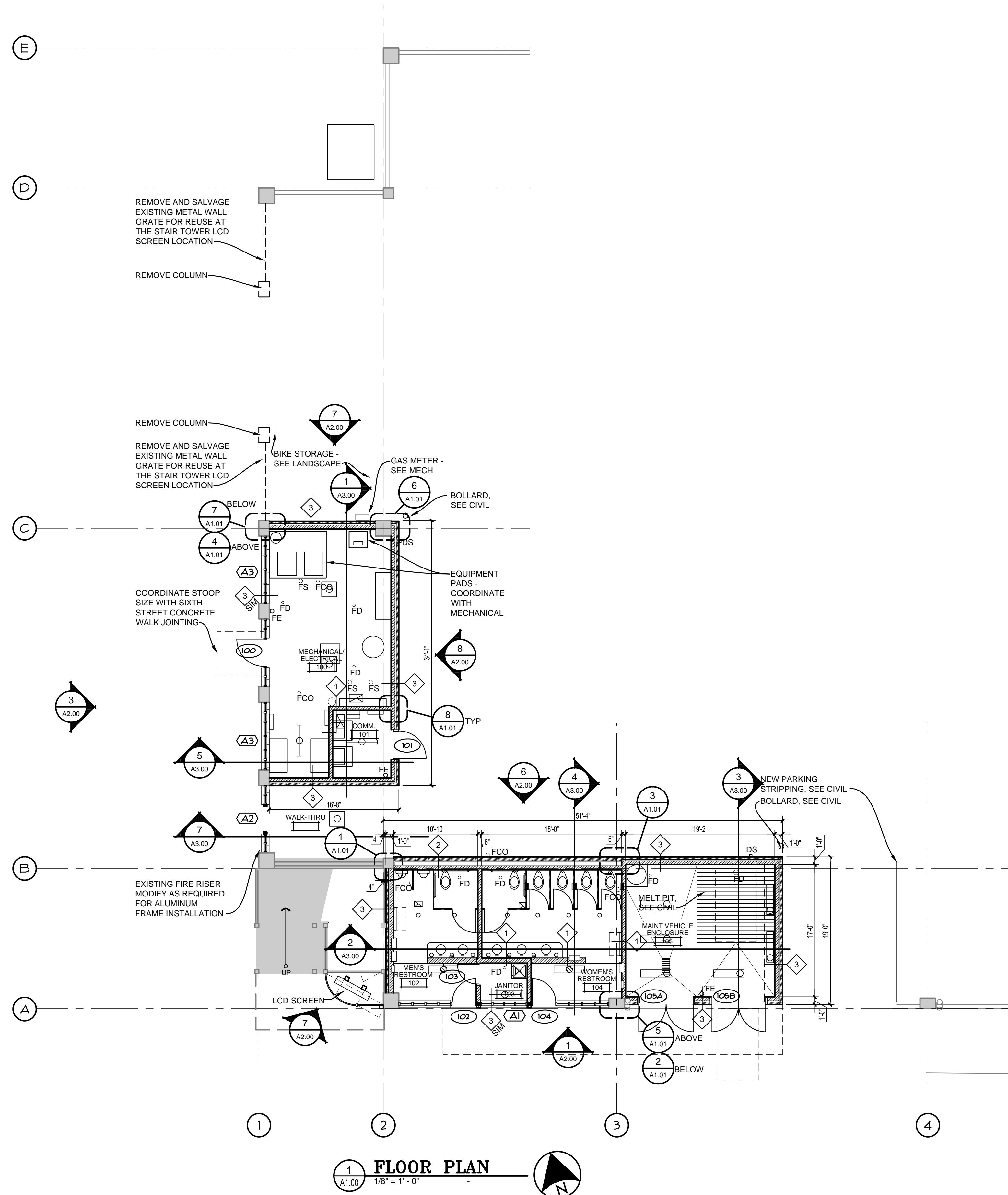
- Fire-Resistant Materials and Construction: (Chapter 7)

Fire Resistive Assemblies as per Section 703. Fire Barriers - Section 706. Penetrations - Section 712, Fire-Resistive Joint Systems - Section 713, Opening protectives- Section 715, Ducts and Air Transfer Openings - Section 716

- Fire Protection Requirements - (Section 903) - N/A

GENERAL NOTES:

- SEE REFLECTED CEILING PLAN FOR CODE INFORMATION
- SEE SHEET A1.01 FOR WALL TYPES.
- PROVIDE 2" RIGID INSULATION UNDER HEATED IN-FLOOR HEATED SLABS, SEE BUILDING SECTIONS.
- ALL EXISTING DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION.
- SEE ENLARGED PLANS ON SHEET A5.00
- ELEVATION 100'-0" = 3226.00 PER THE PARKING GARAGE CONSTRUCTION DOCUMENTS.



FLOOR PLAN
1/8" = 1' - 0"



KEY PLAN
NTS

RUNDELL ERNSTBERGER ASSOCIATES, LLC
Land Planning + Urban Design + Landscape Architecture
611 W Main Street, Suite 201, Louisville, KY 40202
TE (502) 561.8676 FX (502) 561.9076
E-mail: re@louisvilleeresite.com
www.eresite.com

additional offices in:
Indianapolis, IN | Muncie, IN

City of Rapid City
Public Works Department
300 Sixth Street, Rapid City, SD 57701
TE (605) 394-4165 FX (605) 355-3083

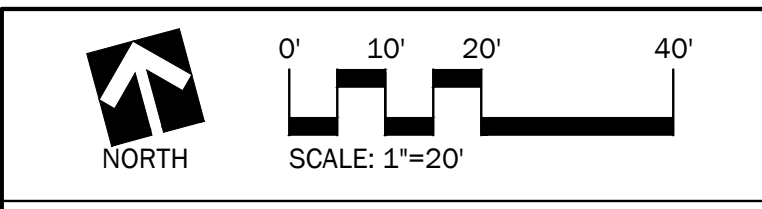
Destination Rapid City
606 Main Street, Rapid City, SD 57701
TE (605) 716-7979 FX (605) 341-6415

FourFront Design, Inc.
Architecture and Civil Engineering
517 Seventh Street
Rapid City, SD 57701
TE (605) 342-9470 FX (605) 342-2377

Skyline Engineering, LLC
Electrical and Mechanical Engineering
615 12th Street
Rapid City, SD 57701
TE (605) 737.3830 FX (605) 737.3859

Albertson Engineering, Inc.
Structural Engineering
3202 W Main Street, Suite C
Rapid City, SD 57702
TE (605) 343.9606 FX (605) 341.7395

**Main Street Square
Site Development
Rapid City, South Dakota**



REVISIONS:			
NO.	BY	DESCRIPTION	DATE
1	REA	100% CONSTRUCTION DRAWINGS REVIEW SET	9/08/10

COPYRIGHT NOTICE:
THE CONCEPTS, IDEAS, DESIGNS, PLANS, AND DETAILS AS SHOWN ON THIS DOCUMENT ARE THE SOLE PROPERTY OF RUNDELL ERNSTBERGER ASSOCIATES, LLC AND WERE CREATED, DEVELOPED, AND PRESENTED FOR USE ON THIS SPECIFIC PROJECT. NONE OF THE CONCEPTS, IDEAS, DESIGNS, PLANS, AND DETAILS SHALL BE USED BY ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER, WITHOUT THE EXPRESSED WRITTEN CONSENT OF RUNDELL ERNSTBERGER ASSOCIATES, LLC. THE OWNER/CLIENT SHALL BE PERMITTED TO RETAIN COPIES FOR INFORMATION AND REFERENCE IN CONNECTION WITH THIS PROJECT.

**Floor Plan and
Code Information**

CERTIFICATION: 100% CDs
OWNER REVIEW SET

City #: PR2010-1901
Project No.: 09.1131
Date: Sept. 8, 2010
Drawn by: PMA
Checked by: DDR
File: 1592_A1.00.dwg

A1.00