

SPICER MANUFACTURING COMPANY, SOUTH PLAINFIELD  
WORKS, BUILDING 28  
(Storage and Garage Building)  
333 Hamilton Avenue  
South Plainfield  
Middlesex County  
New Jersey

HAER NJ-144-D  
*HAER NJ-144-D*

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

HISTORIC AMERICAN ENGINEERING RECORD  
National Park Service  
U.S. Department of the Interior  
1849 C Street NW  
Washington, DC 20240-0001

# HISTORIC AMERICAN ENGINEERING RECORD

## SPICER MANUFACTURING COMPANY, SOUTH PLAINFIELD WORKS, BUILDING 28

(Spicer Manufacturing Company, South Plainfield Works, Storage and Garage Building)

**HAER No. NJ-144-D**

Location: 333 Hamilton Avenue  
Borough of South Plainfield  
Middlesex County  
New Jersey

U.S. Geological Survey Plainfield Quadrangle  
UTM Coordinates 18.549712.4491934

Dates of Construction: c1917-1923

Present Owners: DSC of Newark Enterprises, Inc.  
70 Blanchard Street  
Newark, NJ 07105

Present Use: Demolished

Significance: The South Plainfield Works, originally developed by the Spicer Manufacturing Company beginning in 1910, was a nationally-significant center for the manufacture of universal joints and propeller shafts for automobiles and aircraft. The Storage and Garage Building was built for storage, garage, experimental work, records storage, and recharging of electrical trucks, to support expanded plant operations during or immediately after World War I.

Project Information: Surviving structures of the former South Plainfield Works were part of the Cornell-Dubilier Electronics Superfund Site, and were demolished in 2007-2008 as part of site remediation activities outlined in the September 2004 Record of Decision as administered by the U.S. Environmental Protection Agency and the U.S. Army Corps of Engineers. Federal authority brought the project under the purview of federal acts and regulation protecting significant cultural resources from adverse project effects.\* Prior to demolition, the Spicer Manufacturing Corporation structures were determined eligible for inclusion on the National Register of Historic Places by the New Jersey State Historic Preservation Office, because of the South Plainfield Works' significance in American transportation history. Documentation of the plant to standards of the Historic American Engineering Record was completed to mitigate the removal of the significant resources.

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National Historic Preservation Act of 1966 (PL 89-655), the National Environmental Policy Act of 1969 (PL 91-190), the Archaeological and Historical Preservation Act (PL 93-291), Executive Order 11593, Procedures for the Protection of Historic and Cultural Properties (36 CFR Part 800).

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Historical maps and bird's-eye views indicate that expansion of the South Plainfield Works during or immediately following World War I included construction of the one-story, end-gable 162-by-262-foot Storage and Garage Building for a variety of purposes including storage, garage, experimental work, records storage, and recharging of electrical trucks. Types of stored materials during the Spicer Manufacturing Corporation occupation period remain unidentified. Several historical views suggest the possibility that part of the building, perhaps the northeast corner, served as an electrical substation (see HAER No. NJ-144), but the location shown in these views is not well identified. By the mid-1920s, documented building uses do not include any substation function (Figures 1-4; Dunham-Clarín Company 1917; Spicer Manufacturing Corporation 1923, 1926).

As originally built, the Storage and Garage Building was steel framed, with a 17.8-foot-high wood roof and walls consisting of concrete foundations, corrugated metal siding, and metal sash typically 5 feet high and 7 feet above the concrete floor. The windows included small tilt sections. During the 1940s, the metal siding was replaced with concrete block but most original windows were evidently retained. Despite this radical change in appearance and the later addition of brown vertical-lined texture plywood over much of the upper walls, it is clear from the building's dimensions, location, windows, and distinctive pair of 20-foot-wide, 80-foot-long transverse monitors that the structure documented in 2006-2007 originated as Spicer Manufacturing Corporation Building 28 (Figures 2, 5; Spicer Manufacturing Corporation 1923, 1926; Sanborn Map Company 1925; Nall 1940: 19; Photographs HAER No. NJ-144-1, HAER Nos. NJ-144-D-1, NJ-144-D-2, and NJ-144-D-6).

The wood board roof was supported by 8-by-10-inch steel I-beam columns at 20-foot centers in all directions, ranging in height from 13.8 to 17 feet and riveted to 6-by-12-inch transverse steel I-beam joists on which 2-by-7-inch wood and 2-by-8-inch steel angle purlins ran longitudinally at 4-foot centers. The 5.5-foot-high steel-framed monitors had chain-operated movable steel-sash lights on the long sides, and corrugated metal siding covering the short ends. Located southeast of the three transverse bays comprising the garage, the monitors provided additional daylight for the storage, experimental, and office spaces. Interior partitions, removed before 2006, defined the garage, office, experimental, and electrical truck recharging areas (Figure 5; Photographs HAER No. NJ-144-D-4 through NJ-144-D-6).

Exterior doors, either extant in 2006-2007 or inferred from physical evidence, reflected at least three distinct types of building access during Spicer Manufacturing Company operations: garage parking of automobiles entering the west corner of the building from present Hamilton Avenue; truck access to the southeast end of the building from Hamilton Avenue for presumed receipt of materials; and rail access along the northeast side of the building. Tracks for the former 13-foot-wide garage door survived from an unknown period, but the garage door location was original even if the door and hardware were later replaced. The southeast exterior wall had five 8-to-14-foot-wide garage doors, one man-door and three concrete ramps. A 1940 description of the building mentions "...exits and entrances..." on this side, suggesting at least some of the documented openings were original. Within the 25-foot-wide alley between Building 28 and Buildings 14-16 (HAER No. NJ-144-C), historical maps suggest a rail spur was built very close to the northeast side of Building 28 for a distance of approximately 145 feet from the east corner, at the time of Building 28 construction. In 1940, Johns Mansville Company loaded and unloaded rail cars to store and ship asbestos in leased space within Building 28; Spicer Manufacturing Company probably moved materials into the building from this spur, although most or all shipping of products may have occurred at a comparable spur immediately northeast of

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Buildings 14-16. A 25-foot-long chain hoist rail on the northeast side of Building 28, with a 20-inch I-beam mounted on the building roof and on a triangular set of legs adjacent to Building 15, moved materials through one of two garage-scale doors into Building 28, and may have dated to original construction (Figures 3, 5; Spicer Manufacturing Company 1926; Sanborn Map Company 1925; Nall 1940: 19; Photographs HAER Nos. CT-144-D-2 and CT-144-D-3).

At the north corner of the Storage and Garage Building in the alley facing Building 16 (HAER No. NJ-144-C), a 160-square-foot tile-block-and firebrick structure known as Building 26 housed a well pump which was once the main water supply for the plant. The pump house may have been built c1923-1926. Southeast of the pumphouse, the exterior of Building 28 in 2006-2007 had two concrete platforms extending to the approximate end of the former rail spur: a 12-by-15-foot platform supporting a frame shed, and a 65-foot-long, 14-foot-wide loading dock. A 10-foot-high sliding door provided access from the shed to the former garage portion of the building. The loading dock, which spanned the former locations of the garage and the Spicer Manufacturing Corporation Experimental Department, connected to these areas with two man-doors. It is not known if the shed and loading dock were Spicer Manufacturing Corporation features (Figure 5; Photograph HAER Nos. NJ-144-D-2 and NJ-144-D-6).

All interior equipment and walls visible in 2006-2007 appear to reflect several generations of modification following c1930, including crane rails on 14.2-foot-high 6-by-6-inch I-beam columns in the northeast half of the eastern monitor, a modern 2.5-ton crane in the southwest half of the same monitor, a concrete block wall dividing the entire building longitudinally, and office and lavatory spaces near the east corner of the building made of plywood, timber framing, and concrete block.

### **SOURCES OF INFORMATION/BIBLIOGRAPHY**

#### **A. Historical Photographs**

Several photographs in the collections of The History Factory, Chantilly, Virginia may show Storage and Garage Building interiors, but the subject locations cannot be confirmed.

#### **B. Bibliography**

Day, Joseph P.

- 1929 3 Factories for Sale Formerly Occupied by Spicer Mfg. Co. Joseph P. Day Real Estate Agent, New York, New York. Original in the collections of The History Factory, Chantilly, Virginia. Archive Number 11-0-0-8-4 (827).

Dunham-Clarín Company

- 1917 Map of Property Situated at South Plainfield, Middlesex County, New Jersey, Property of Spicer Manufacturing Corporation, July, 11, 1917. Original in the collections of The History Factory, Chantilly, Virginia. Archive Number 11-0-0-6-3942.

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Nalls, R.L.

1940 Cornell-Dubilier Electric Corporation. Federal Bureau of Investigation Plant Survey, Newark, NJ, File No. 99-92. National Archives and Record Administration.

Sanborn Insurance Company

1925 Insurance Maps of Plainfield, New Jersey. [updated to c1947]. New York, New York. Copy in the collections of the Alexander Library, Rutgers University, New Brunswick, New Jersey.

Spicer Manufacturing Corporation

1923 South Plainfield Works of the Spicer Manufacturing Corporation, South Plainfield, New Jersey. Copy in the collections of The History Factory, Chantilly, Virginia. Archive Number 05050000102021301.

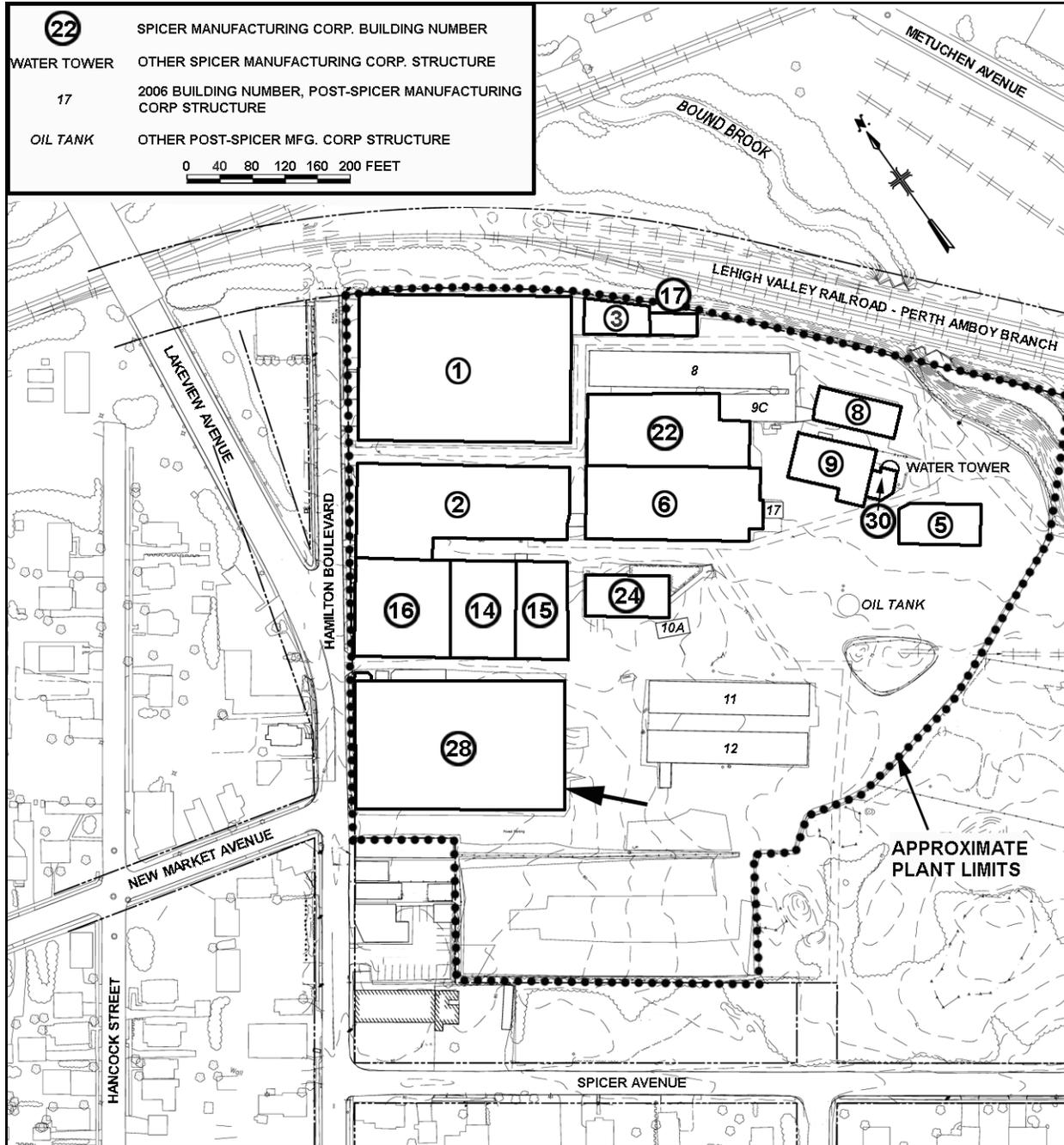
1926 Department and Building Location Plan, Spicer Manufacturing Corporation, South Plainfield, New Jersey. Original in the collections of The History Factory, Chantilly, Virginia. Archive Number 5-4-0-0-(432).

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**Figure 1. BUILDING 28 LOCATION AT FORMER SPICER MANUFACTURING CORP. PLANT**



**Figure 2. BUILDING 28 AND 1923 SOUTH PLAINFIELD WORKS**  
Source: Spicer Manufacturing Corporation 1923

In this south-facing view, the Storage and Garage Building is the structure at center with two transverse monitors (cf. Photograph HAER No. NJ-144-1). The window arrangements visible along the northwest wall facing Plainfield (now Hamilton) Avenue were visible from inside the building in 2006-2007. The pump house shown at the north corner of the building in Figure 3 is not visible, but it is not known if this omission reflects a later construction date for the pump house or artistic license.

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DEPARTMENT				BUILDING			
No.	NAME	AREA	No.	NAME	AREA	No.	NAME
1	Office	11840	2	Administration	49800	1	Machine Shop
2	Eng. & Drafting	37760	3	Receiving & Misc.	7340	2	Heat Treat. & Sand
3	Stores	4120	4	Blot	8870	3	Maintenance and
4	Dies	10280	5	Milwright	18868	4	Stamping
5	Forge	8100	6	Stamping	8540	5	Die Shop
6	Sieves & Balls	14100	7	Die Shop	4120	6	Power House
7	Flanges	14100	8	Die Shop	6000	7	Shear Shed and
8	Flanges	14100	9	Power House	1425	8	Well House
9	Shafts	5800	10	Shear Shed and	1425	9	Shipping
10	Heat Treat	9600	11	Heat Treat	9600	10	Assembly & Prod
11	Heat Treat	9600	12	Heat Treat	9600	11	Office Shed
12	Heat Treat	9600	13	Heat Treat	9600	12	Pump House
13	Heat Treat	9600	14	Heat Treat	9600	13	Pump House
14	Heat Treat	9600	15	Heat Treat	9600	14	Blacksmith Shop
15	Heat Treat	9600	16	Heat Treat	9600	15	Heat Treat
16	Heat Treat	9600	17	Heat Treat	9600	16	Blacksmith Shop
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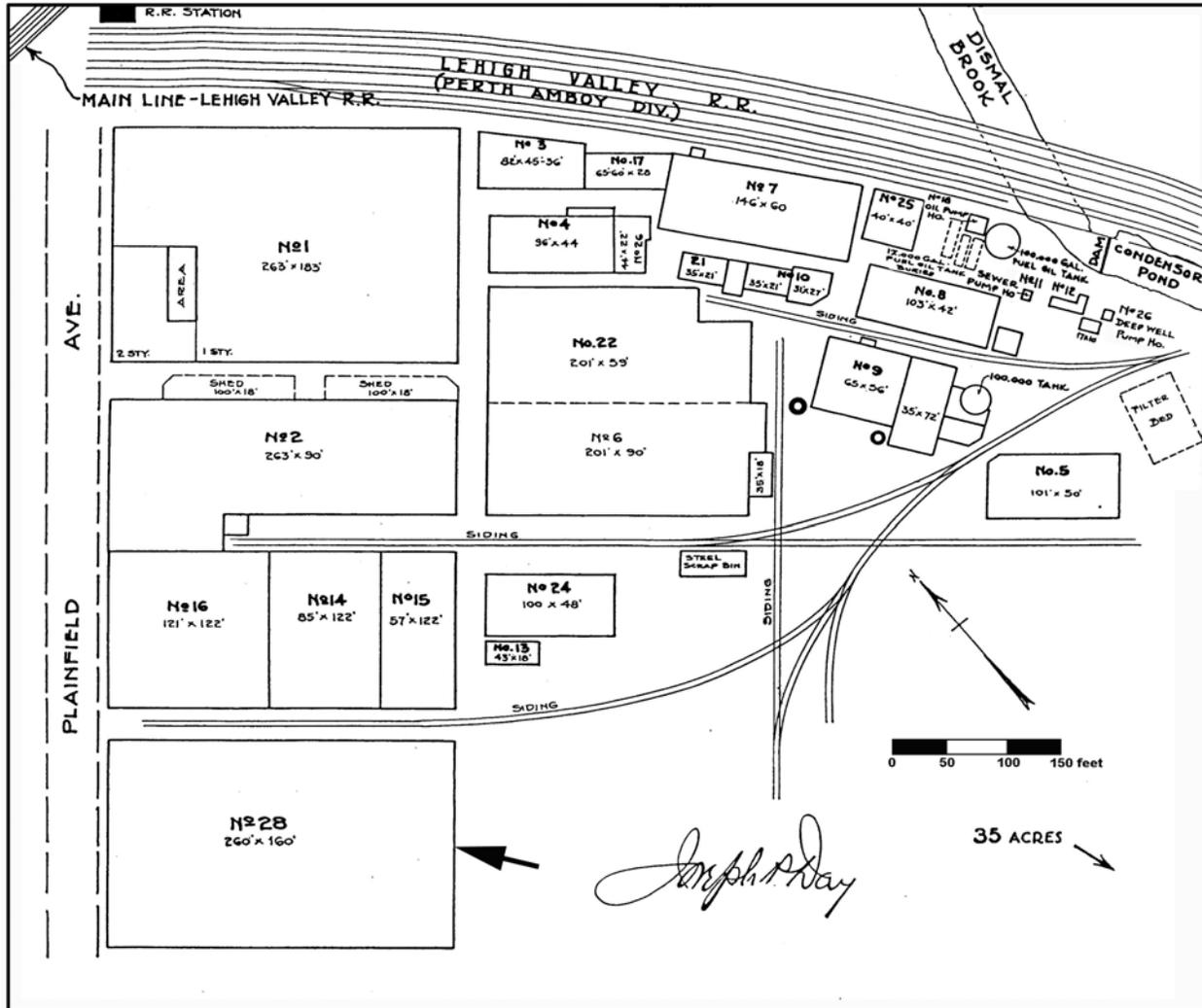


Figure 4. BUILDING 28 AND 1929 SOUTH PLAINFIELD WORKS

Source: Day 1929

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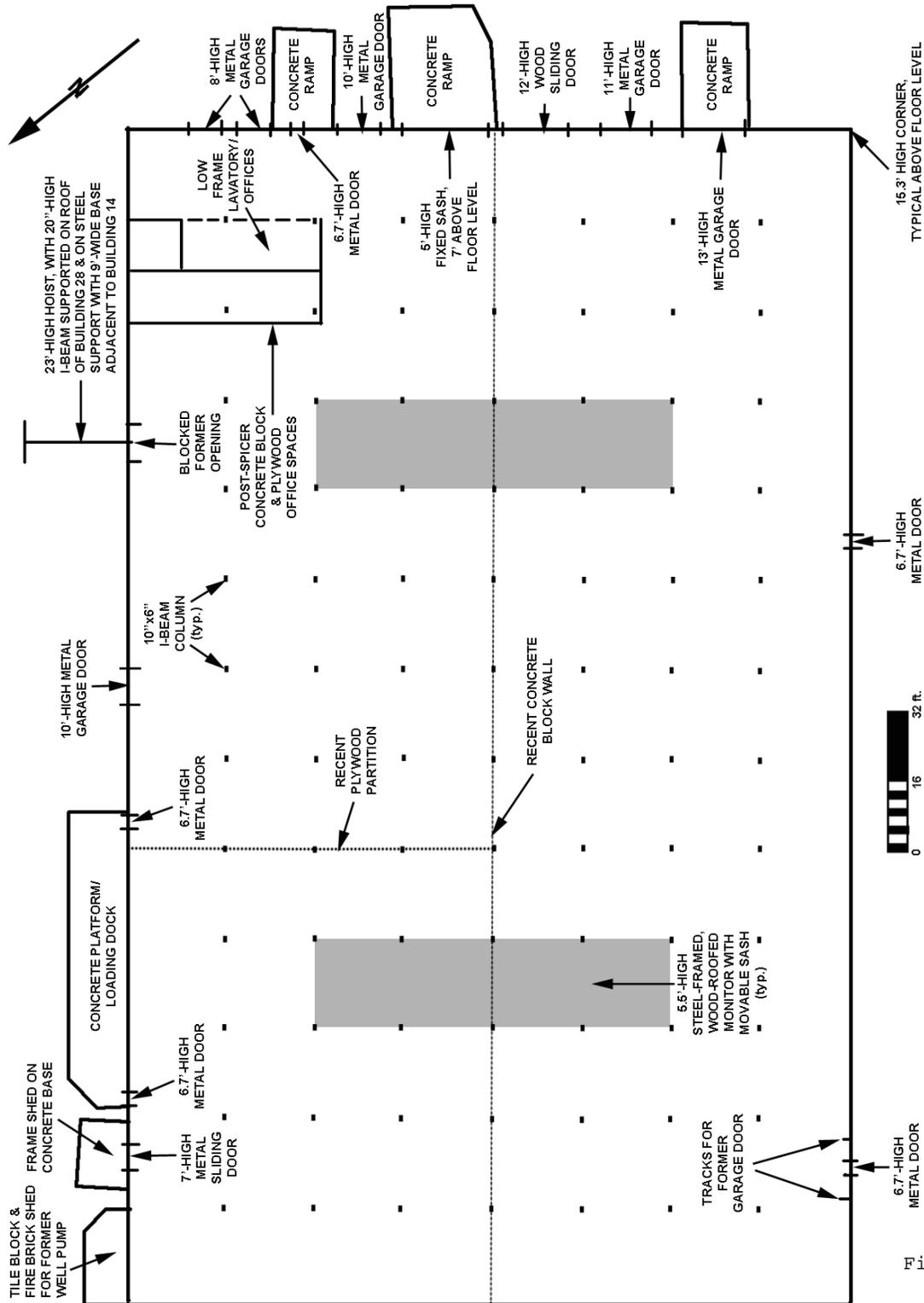


Figure 5

Figure 6. SKETCH PLAN OF 2006-2007 CONDITIONS