

RESOLUTION OF THE CITY COUNCIL

No. 571

Approved September 28, 1998

WHEREAS, Canal Street Properties (hereinafter "Petitioner"), has sought:

(a) to construct a handicapped access ramp adjacent to its real estate located at 189 Canal Street; and

WHEREAS, said access ramp will encroach upon the public walkway; and

WHEREAS, after study of Petitioner's request, the City, acting through its appropriate authorities, has determined that the proposed encroachments are not adverse to the public interest,

NOW, THEREFORE, BE IT RESOLVED That the Petitioner is granted permission to encroach upon the public way for the purpose of constructing and maintaining a handicapped-access ramp at or near the entrance to the building located at 189 Canal Street. Provided, however, that said grant is specifically conditioned upon:

1. All construction with relation to the said ramps is to be completed in accordance with plans and specifications submitted by the Petitioner to the city Department of Inspection & Standards as those plans may have been modified and/or approved by said department, the City Department of Public Works, and the Council Committee on Public Works. (Copies of the subject plans are attached hereto).

2. The Petitioner shall supply and retain in effect a certificate of insurance in an amount of not less than one hundred thousand dollars (\$100,000.00) protecting the City of Providence and its successors and assigns, its agents, servants, officers and employees as additional-named insureds against claims for the construction, maintenance and/or existence of said ramp and wall encroachments. Said insurance shall be acceptable to the Department of Law.

3. The Petitioner shall execute an indemnification and hold harmless agreement satisfactory to the City Solicitor.

IN CITY COUNCIL
Aug 6, 1998
FIRST READING
REFERRED TO COMMITTEE ON
PUBLIC WORKS

Michael R. Jones CLERK

THE COMMITTEE ON
PUBLIC WORKS
Approves Passage of
The Within Resolution

Barbara A. Quinn
8/14/98 Clerk

Councilman Fessette (By request)

4. The Petitioner shall grant to the appropriate public utility(ies) and/or governmental agency(ies), by pertinent document, any easements, licenses, or the like, so as to maintain public services.

5. A certified copy of the within Resolution shall be recorded in the Office of Land Evidence of the City of Providence.

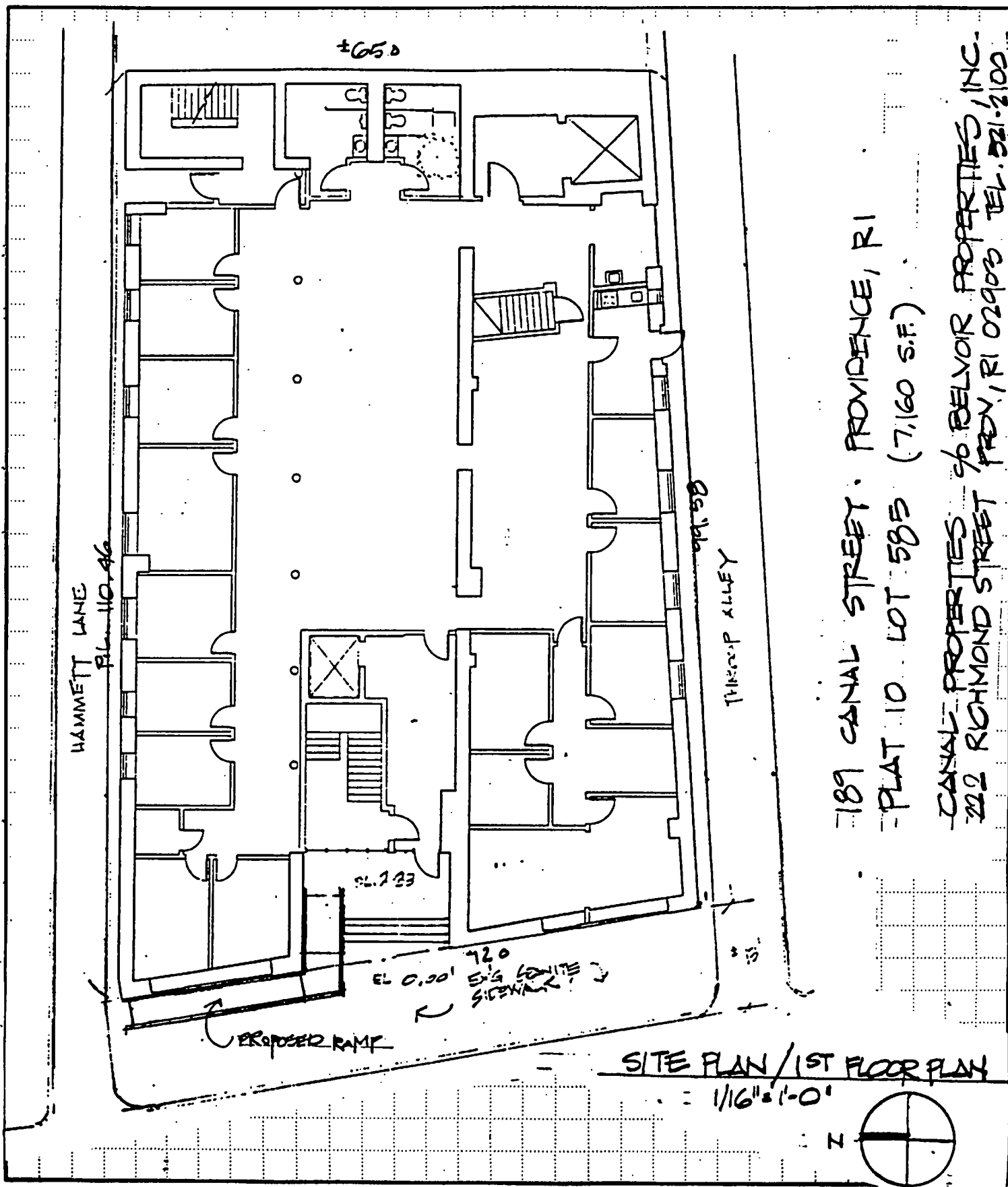
6. Any rights or obligations granted hereunder shall be deemed to run with the land and shall operate against any and all successors in interest and/or title .

7. Any rights or obligations granted hereunder shall remain in full force and effect for so long as the encroachment permitted hereby does not cease to be utilized for the purposes for which it was granted.

8. Such other reasonable conditions as the Mayor and/or the Department of Law may impose hereunder.

IN CITY COUNCIL
 SEP 17 1998
 READ AND PASSED
Richard H. Fargnoli
 PRES.
Richard H. Clement
 CLERK

APPROVED
 SEP 28 1998
Vincent A. Cianci
 MAYOR





**YODER +
TIDWELL, Ltd.**

Architects and Engineers

14 Imperial Place Suite 202
Providence, Rhode Island 02903
(401) 751-2480 FAX (401) 274-7517

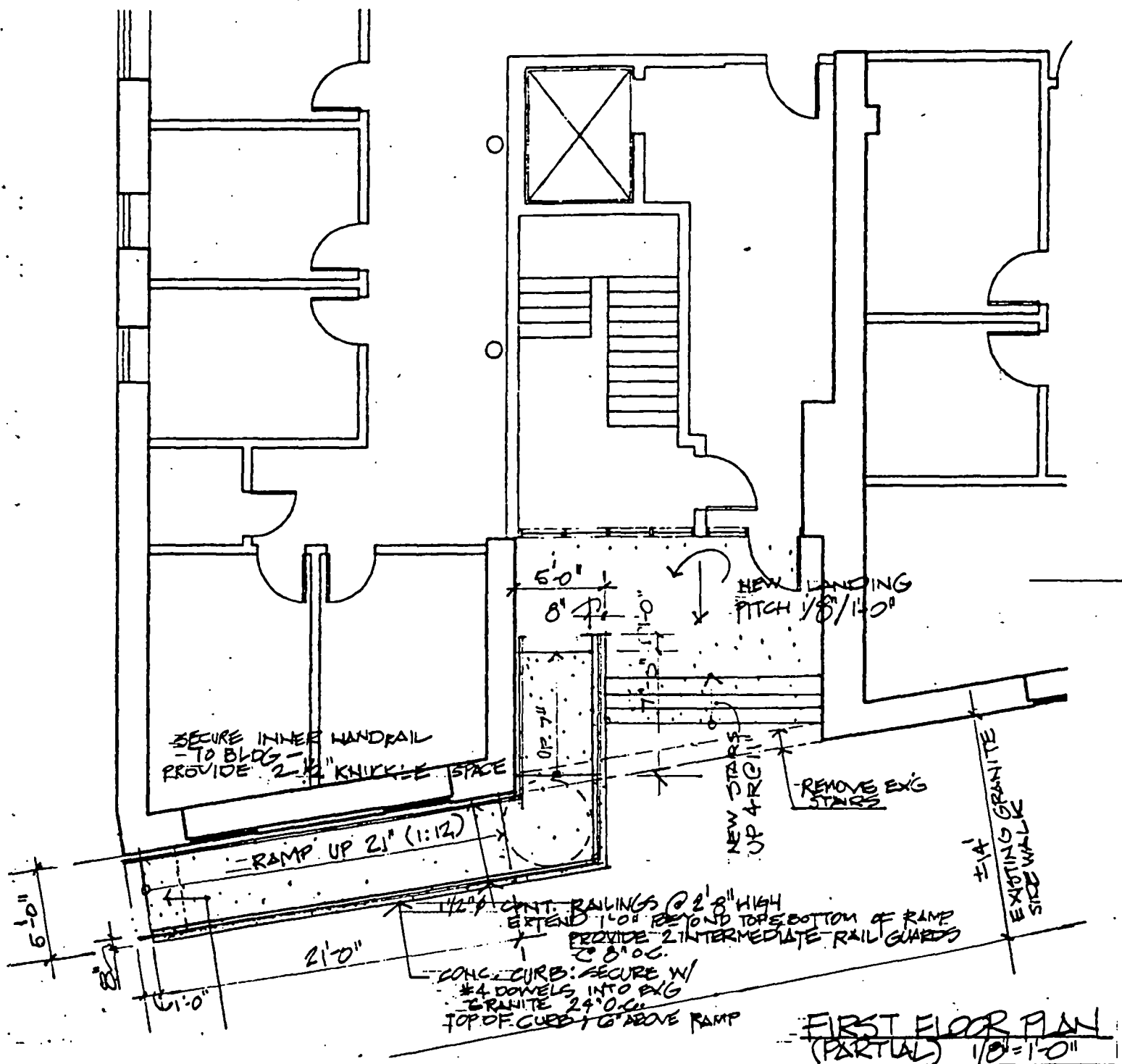
Project 189 CANAL ST. - RAMP - C.F.N.K. AREA

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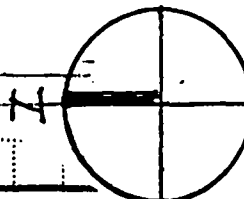
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Checked by _____ Date _____

STRUCTURAL REVIEW



**PROPOSED RAMP FOR PHYSICALLY
HANDICAPPED ACCESSIBILITY**





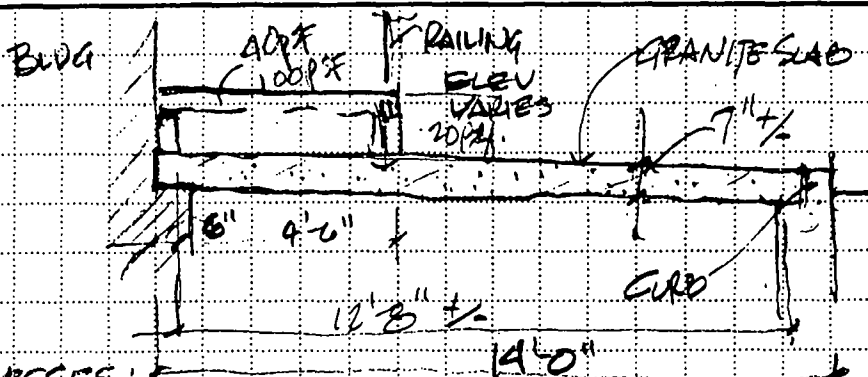
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Project 189 CANAL ST. RAMP G.F. INK. AP-
Sheet No. 3 of 5
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STRUCTURAL ANALYSIS & DETAILS

CROSS-SECTION OF
SIDEWALK @ RAMP
(INFO FROM G.F. INK)



1. EXIST'G CONDITIONS & STRESSES:

$$\begin{aligned} 7\frac{1}{2} \text{ GRANITE SLAB DEAD LOAD} &= 94 \text{ psf } \pm \\ \text{DESIGN LOAD (LIVE) REQ'D BY CODE} &= 100 \text{ psf} \end{aligned} \quad \left. \vphantom{\begin{aligned} 7\frac{1}{2} \text{ GRANITE SLAB DEAD LOAD} \\ \text{DESIGN LOAD (LIVE) REQ'D BY CODE} \end{aligned}} \right\} \text{TOTAL} = 194 \text{ psf}$$

$$\text{MAX. BENDING MOM.} = 389.3 \text{ FT-LBS} \quad @ 7" \text{ depth, } S = \frac{12(7)^2}{6} = 98 \text{ IN}^3$$

$$f_b = \frac{M}{S} = \frac{389.3(12)}{98} = 476.7 \text{ psi} \quad \left[\begin{array}{l} \text{P.L.} = 231.0 \text{ psi} \\ \text{L.L.} = 245.7 \text{ psi} \end{array} \right]$$

2. PROPOSED INSTALLATION (KEEPING DEAD LOAD TO A MINIMUM):

$$\text{MAX. BENDING MOM.} = 423.8 \text{ FT-LBS}$$

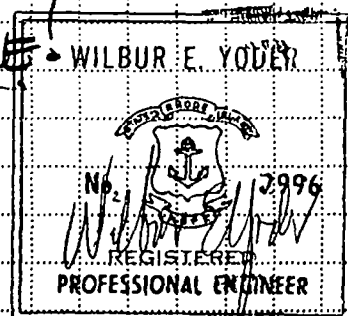
INCREASE IN STRESS

$$= \frac{423.8}{389.3} = 1.089 - 8.9\% \text{ INCREASE}$$

$$f_b = 519 \text{ psi} < 600 \text{ psi} - \text{SEE NEXT PAGE -}$$

THE % INCREASE IS SLIGHT - ACCEPTABLE

(USE LIGHT CONSTRUCTION - SEE
DETAILS ON SHEET 5 OF





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Project 189 CANAL ST. - RAMP - C. FINE, ARCHT
Sheet No. 4 of 5
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STRUCTURAL ANALYSIS -

PROPERTIES/TABLES FROM "STRUCTURAL DESIGN & CONSTR. HANDBOOK"
5TH ED. MCGRAW HILL 1994

TABLE 4.9 Strength Characteristics of Commercial Building Stones

| Stone | Compressive strength, psi, range | Modulus of rupture, psi, range | Shear strength, psi, range | Tensile strength, psi, range | Elastic modulus, psi, range | Toughness | | Wear resistance | |
|--------------------|----------------------------------|--------------------------------|----------------------------|------------------------------|-----------------------------|-----------|-----|-----------------|------|
| | | | | | | Range | Avg | Range | Avg |
| Granite | 7,700-60,000 | 1,430-5,190 | 2,000-4,800 | 600-1,000 | 5,700,000-8,200,000 | 8-27 | 13 | 43.9-87.9 | 60.8 |
| Marble | 8,000-50,000 | 600-4,900 | 1,300-6,500 | 150-2,300 | 7,200,000-14,500,000 | 2-23 | 6 | 6.7-41.7 | 18.9 |
| Limestone | 2,600-28,000 | 500-2,000 | 800-4,580 | 280-890 | 1,500,000-12,400,000 | 5-20 | 7 | 1.3-24.1 | 8.4 |
| Sandstone | 5,000-20,000 | 700-2,300 | 300-3,000 | 280-500 | 1,900,000-7,700,000 | 2-35 | 10 | 1.6-29.0 | 13.3 |
| Quartzite | 16,000-45,000 | | | | | 5-30 | 15 | | |
| Serpentine | 11,000-28,000 | 1,300-11,000 | | 800-1,600 | 4,800,000-9,600,000 | | | 13.3-111.4 | 46.9 |
| Basalt | 28,000-67,000 | | | | | 5-40 | 20 | | |
| Diorite | 16,000-35,000 | | | | | 6-38 | 23 | | |
| Syenite | 14,000-28,000 | | | | | | | | |
| Slate | | 6,000-15,000 | 2,000-3,600 | 3,000-4,300 | 9,800,000-18,000,000 | 10-56 | | 5.6-11.7 | 7.7 |
| Diabase | | | | | | 6-50 | 19 | | |
| Building limestone | | | | | | 3-8 | 4.4 | | |

4.24 PROPERTIES OF BUILDING STONES

Data on the strength of building stones are presented in Table 4.9, summarized from *U.S. National Bureau of Standards Technical Papers*, No. 123, B. S. Vol. 12; No. 305, Vol. 20, p. 191; No. 349, Vol. 21, p. 497; *Journal of Research of the National Bureau of Standards*, Vol. 11, p. 635; Vol. 25, p. 161). The data in Table 4.9 pertain to dried specimens. Strength of saturated specimens may be either greater or less than that of completely dry specimens.

The modulus of rupture of dry slate is given in Table 4.9 as ranging from 6000 to 15,000 psi. Similar slates, tested wet, gave moduli ranging from 4700 to 12,300 psi. The ratio of wet modulus to dry modulus varied from 0.42 to 1.12 and averaged 0.73.

Data on the true specific gravity, bulk specific gravity, unit weights, porosity, and absorption of various stones are given in Table 4.10.

TABLE 4.10 Specific Gravity and Porosity of Commercial Building Stones

| Stone | Specific gravity | | Unit weight, lb per cu ft | Porosity, % | Absorption, % | |
|------------|------------------|-----------|---------------------------|-------------|---------------|-----------|
| | True | Bulk | | | By weight | By volume |
| Granite | 2.599-3.080 | 2.60-3.04 | 157-187 | 0.4-3.8 | 0.02-0.58 | 0.4-1.8 |
| Marble | 2.718-2.879 | 2.64-2.86 | 165-179 | 0.4-2.1 | 0.01-0.45 | 0.04-1.2 |
| Limestone | 2.700-2.860 | 1.87-2.69 | 117-175 | 1.1-31.0 | | 6-15 |
| Slate | 2.771-2.898 | 2.74-2.89 | 168-180 | 0.1-1.7 | 0.00-1.63 | 0.3-2.0 |
| Basalt | | 2.9-3.2 | | | | |
| Soapstone | | 2.8-3.0 | | | | |
| Gneiss | | 2.7-3.0 | | | | |
| Serpentine | | 2.5-2.8 | 158-183 | | | |
| Sandstone | | 2.2-2.7 | 119-168 | 1.9-27.3 | | 6-18 |
| Quartzite | | | 165-170 | 1.5-2.9 | | |

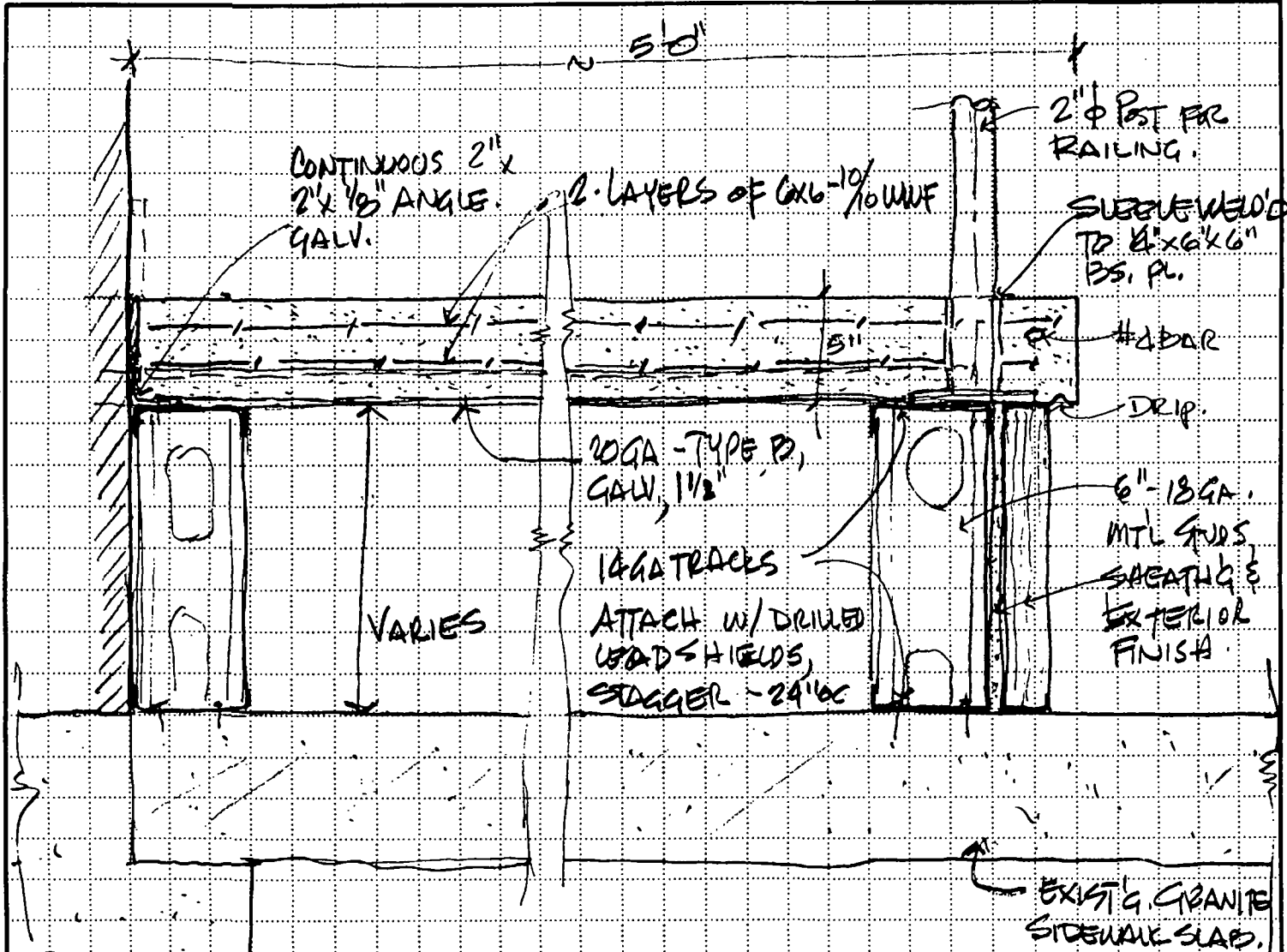


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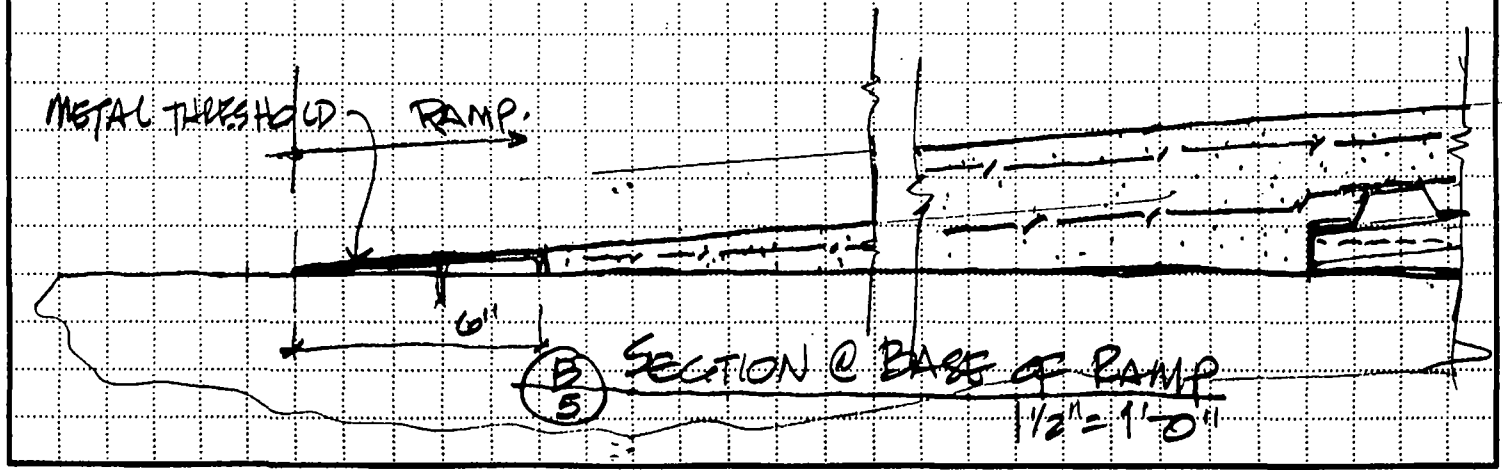
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Project 189 CANAL ST. - RAMP CIVIL ARCHT.
Sheet No. 5 of 5
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STRUCTURAL DETAILS



(A) CROSS-SECTION - RAMP
1 1/2" = 1'-0"





Department of Inspection and Standards

"Building Pride In Providence"

MEMO

To: Councilman Robert M. Clarkin
Chairman, Committee on Public Works

From: Ramzi J. Loqa, Director *RJL*

Date: September 10, 1998

Re: Handicap Ramp at 189 Canal Street

Please be advised that the proposed ramp is in compliance with the R.I. State Building Code, SBC-16 Handicap Regulations, except for the following:

1. Top of handrail gripping surfaces shall be mounted between 34" and 38" above ramp surfaces and not 32", as indicated on attached sketch. Also, the size of the handrail gripping surface is not indicated.
2. Since the ramp is rising 21" and 7" from sidewalk level, vertical guards must be placed at 4" clear spacing between handrails.
3. Ramp edge protection is not shown on attached sketch.
4. Architect must investigate whether there is a vault under this particular sidewalk, and if it exists then its structural roof framing must be reviewed to insure it can withstand the additional dead load generated by this ramp.

Also, this location happens to fall within the Downcity Overlay Zone and, therefore, it requires an approval from the Downcity Review Committee located at the Planning Department.

RJL:np

James F. Rattigan
Chief of Department
David D. Costa
Fire Marshal



Vincent A. Cianci Jr.
Mayor
John J. Partington
Commissioner

PROVIDENCE FIRE PREVENTION DIVISION
"Smoke Detectors Save Lives"

August 24, 1998

Chairman Robert M. Clarkin
Committee on Public Works
City Hall
Providence, RI 02903

Re: Handicap Ramp – 189 Canal Street

Dear Chairman Clarkin,

After review of the proposal to use a portion of the sidewalk in front of 189 Canal Street for a handicap ramp (see attached), the Fire Department has no objection provided the ramp is constructed to meet the requirements of the 1997 Edition of the Life safety code.

A handwritten signature in black ink, appearing to read "David D. Costa", written over a horizontal line.

David D. Costa
Fire Marshal

IRENE J. TESTA
Traffic Engineer

JOSEPH W. CAPRIO
Deputy Director



VINCENT A. CIANCI, JR.
Mayor

Department of Traffic Engineering
"Building Pride In Providence"

MEMORANDUM

TO: Councilman Robert Clarkin, Chairman
Committee on Public Works

FROM: Irene J. Testa *Irene J. Testa*

DATE: 9/8/98

RE: PENDING RESOLUTION

Request: RESOLVED, that the Providence City Council authorizes Canal Street Properties, c/o Belvair Properties, Inc., to construct a Handicap Ramp at 189 Canal Street and permit the use of a certain portion of the sidewalk.

Disposition: No objection to said ramp provided that the remaining portion of the sidewalk can accommodate wheel chair passage.