INDEX OF DRAWINGS:

INPATIENT WARD RENOVATION

VETERANS ADMINISTRATION MEDICAL CENTER
BUILDING 31
WHITE RIVER JUNCTION, VERMONT

ISSUED FOR: Bidding and Construction 09/30/2022

OWNER:
WHITE RIVER JUNCTION VA MEDICAL CENTER
163 Veterans Drive (GPS)
White River Junction, VT 05009
Tel: 802.295.9363
www.e4harchitecture.com

ARCHITECT:
E4H MORRISSWITZER ENVIRONMENTS FOR HEALTH ARCHITECTURE
185 Talcott Road
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Tel: 802.878.8842
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ENGINEERING VENTURES
ENGINEERING VENTURES
208 Flynn Avenue, Suite 2A
Burlington, VT 05401
Tel: 802-863-6225
www.engineeringventures.com

MEP CONSULTANT:
LN CONSULTING
LN CONSULTING
208 Flynn Ave., Suite 2J,
Burlington, VT 05401
Tel: 802.655.1753
www.lnconsulting.com

CONSTRUCTION COST ESTIMATING & SCHEDULING:
VIS CONSTRUCTION CONSULTANTS
595 Dorset Street, Suite #5
South Burlington, VT 05403
Tel: 802.658.6100
www.viscc.com

HAZARDOUS MATERIALS:
ATLAS
51 Knight Lane
Williston, VT 05495
802-862-1980

COMMISSIONING SERVICES:
Cx ASSOCIATES
110 Main Street
Burlington, VT 05401
Tel: 802.861.2715
www.cx-associates.com

LIFE SAFETY CONSULTANT:
JENSEN-HUGHES
1661 Worcester Road
Suite 501
Framingham, MA
www.jensenhughes.com

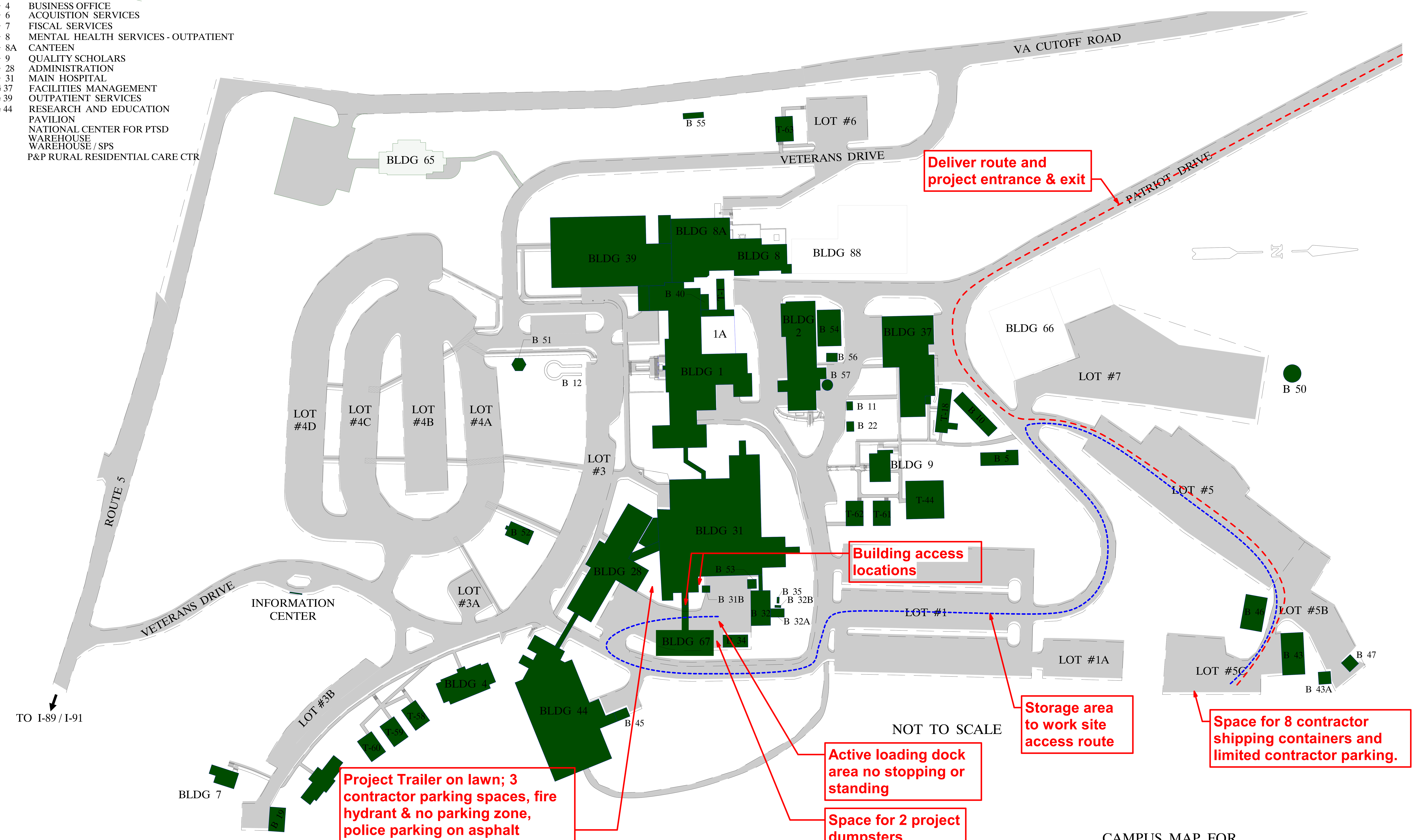
INTERIOR SIGNAGE DESIGN:
CREATIVE SIGNAGE
9101 51st Place
College Park, MD 20740
Tel: 301.345.3700
www.creativesignage.com

PROJECT #405-13-104

11/10/2022 2:06:03 PM

MAIN BUILDINGS

BLDG 1	CLINICAL SERVICES
BLDG 2	BOILER PLANT
BLDG 4	BUSINESS OFFICE
BLDG 6	ACQUISITION SERVICES
BLDG 7	FISCAL SERVICES
BLDG 8	MENTAL HEALTH SERVICES - OUTPATIENT
BLDG 8A	CANTEEN
BLDG 9	QUALITY SCHOLARS
BLDG 28	ADMINISTRATION
BLDG 31	MAIN HOSPITAL
BLDG 37	FACILITIES MANAGEMENT
BLDG 39	OUTPATIENT SERVICES
BLDG 44	RESEARCH AND EDUCATION
B 52	PAVILION
B 65	NATIONAL CENTER FOR PTSD
B 66	WAREHOUSE
B 67	WAREHOUSE / SPS
B 88	P&P RURAL RESIDENTIAL CARE CTR



PARKING

LOT #1	STAFF PARKING	LOT #4D	STAFF/PATIENT PARKING
LOT #1A	STAFF PARKING	LOT #5	STAFF ONLY
LOT #2	RESERVED PARKING	LOT #5B	STAFF ONLY
LOT #3	PATIENT ONLY WITH HANDICAP ACCESS	LOT #5C	EQUIPMENT PARKING
LOT #3A	PATIENT ONLY WITH HANDICAP ACCESS	LOT #6	STAFF ONLY
LOT #3B	STAFF PARKING	LOT #7	CONTRACTOR ONLY
LOT #4A, B, C	PATIENT ONLY	LOT #8	STAFF ONLY

CAMPUS MAP FOR

DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER

WHITE RIVER JUNCTION, VT
SEPTEMBER 2022

Issued for Bidding and Construction

Number	Date	Revision

Mechanical, Plumbing & Electrical Engineering
L.N. Consulting
69 Union St
Winooski, VT 05404
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Hazardous Materials
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9101 51st Place
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Life Safety Consultant
Jensen-Hughes
1661 Worcester Road
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KEY PLAN

N

Drawing Title: CONTRACTOR SITE MANAGEMENT PLAN	Project Title: INPATIENT WARD RENOVATION
Approved By: Approver	Building #: 31 / Scale: 1" = 80'-0"
Approved By: Approver	Location: VAMC - WHITE RIVER JUNCTION
Approved By: Approver	

Date: 09/30/2022
VA Project No.: 405-13-104
Drawing No.: 31-AS-000

Office of Facilities
Department of Veterans Affairs

VA FORM 08-6231

Applicable Codes

Vermont Fire and Building Safety Code	2012 edition
NFPA 101 Life Safety Code	2015 edition
The International Building Code	2015 edition
Vermont Access Rules (ADA)	2012 edition
Vermont Commercial Enery Standards	2015 edition
Guildlines for Design and Construction of Health Care Facilities	2010 edition

LIFE SAFETY LEGEND

- SMOKE BARRIER
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL
- EXIT PATH
- FE — FIRE EXTINGUISHER

The International Building Code

Chapter 3 Use and Occupancy Classification
Institutional Group I-2

Chapter 4 Special Detailed Requirements Based on Use and Occupancy

407.1 General. Occupancies in Group I-2 shall comply with the provisions of Sections 407.1 through 407.10 and other applicable provisions of this code.

407.2 Corridors continuity and separation.

407.2.1 Waiting and similar areas. Waiting areas and similar spaces constructed as required for corridors shall be permitted to be open to a corridor, only where all of the following criteria are met:

1. The spaces are not occupied as care recipient's sleeping rooms, treatment rooms, incidental uses in accordance with Section 509, or hazardous uses.
2. The open space is protected by an automatic fire detection system installed in accordance with Section 907.
3. The corridors onto which the spaces open, in the same smoke compartment, are protected by an automatic fire detection system installed in accordance with Section 907, or the smoke compartment in which the spaces are located is equipped throughout with quick-response sprinklers in accordance with Section 903.3.2
4. The space is arranged so as not to obstruct access to the required exits

407.2.2 Care providers' stations. Spaces for care providers', supervisory staff, doctors' and nurses' charting, communications and related clerical areas shall be permitted to be open to the corridor, where such spaces are constructed as required for corridors.

407.3 corridor wall construction. Corridor walls shall be constructed as smoke partitions in accordance with Section 710.

407.3.1 Corridor doors. Corridor doors other than those in a wall required to be rated by Section 509.4 or for the enclosure of a verical opening or an exit, shall not have a required fire protection rating and shall not be required to be equipped with self-closing or automatic-closing devices, but shall provide an effective barrier to limit the transfer of smoke and shall be equipped with positive latching. roller latches are not permitted. Other doors shall conform to Section 716.5

407.4 Means of egress. Group I-2 occupancies shall be provided with means of egress complying with Chapter 10 and Section 407.4.1 through 407.4.3.

407.4.2 Travel distance. The travel distance between any point in a Group I-2 occupancy sleeping room and an exit access door in that room shall be not greater than 50 feet.

407.5 Smoke barriers. Smoke barriers shall be provided to subdivide every story used be persons receiving care, treatment or sleeping and to divide other stories with an occupant load of 50 or more persons, into no fewer than two smoke compartments. Such stories shall be divided into smoke compartments with an area of not more than 22,500 square feet and the travel distance from any point in a smoke compartment to a smoke barrier door shall be not greater than 200 feet. The smoke barrer shall be in accordance with Section 709.

Chapter 6 Types of Construction

Construction Classification = Type 1B; Fully Sprinklered

Building Element	**Type 1-B**
-Primary structual frame	2
-Bearing walls	
Exterior	2
Interior	2
-Nonbearing Walls and Partitions Exterior	(table 602)
-Nonbearing Walls and Partition Interior	0
-Floor construction and associated secondary members	2
-Roof construction and associated secondary members	1

Chapter 7 Fire and Smoke Protection Features

Section 707 Fire Barriers

707.3.4 Exit passageway. The fire-resistance rating of the fire barrier separating building areas from an exit passageway shall comply with Section 1023.3

707.3.5 Horizontal Exit. The fire-resistance rating of the separation between building areas connected by a horizontal exit shall comply with Section 1025.1

707.3.7 Incidental uses. The fire barrier separating incidental uses from other spaces in the building shall have a fire-resistance rating of not less than that indicated in Table 509

707.3.9 Separated occupancies. Where the provisions of Sectio 5608.4 are applicable, the fire barrier separatind mixed occupancies shall bave a fire resistance rating of not less than that indicaed in Table 508.4 based on the occupancies being separated.

707.6 Openings. Openings in a fire barrier shall be protected in accordance with Section 716.

Section 709 Smoke Barriers

709.3 Fire-resistance rating. A 1-hour fire-resistance rating is required for smoke barriers

Section 716 Opening Protectives

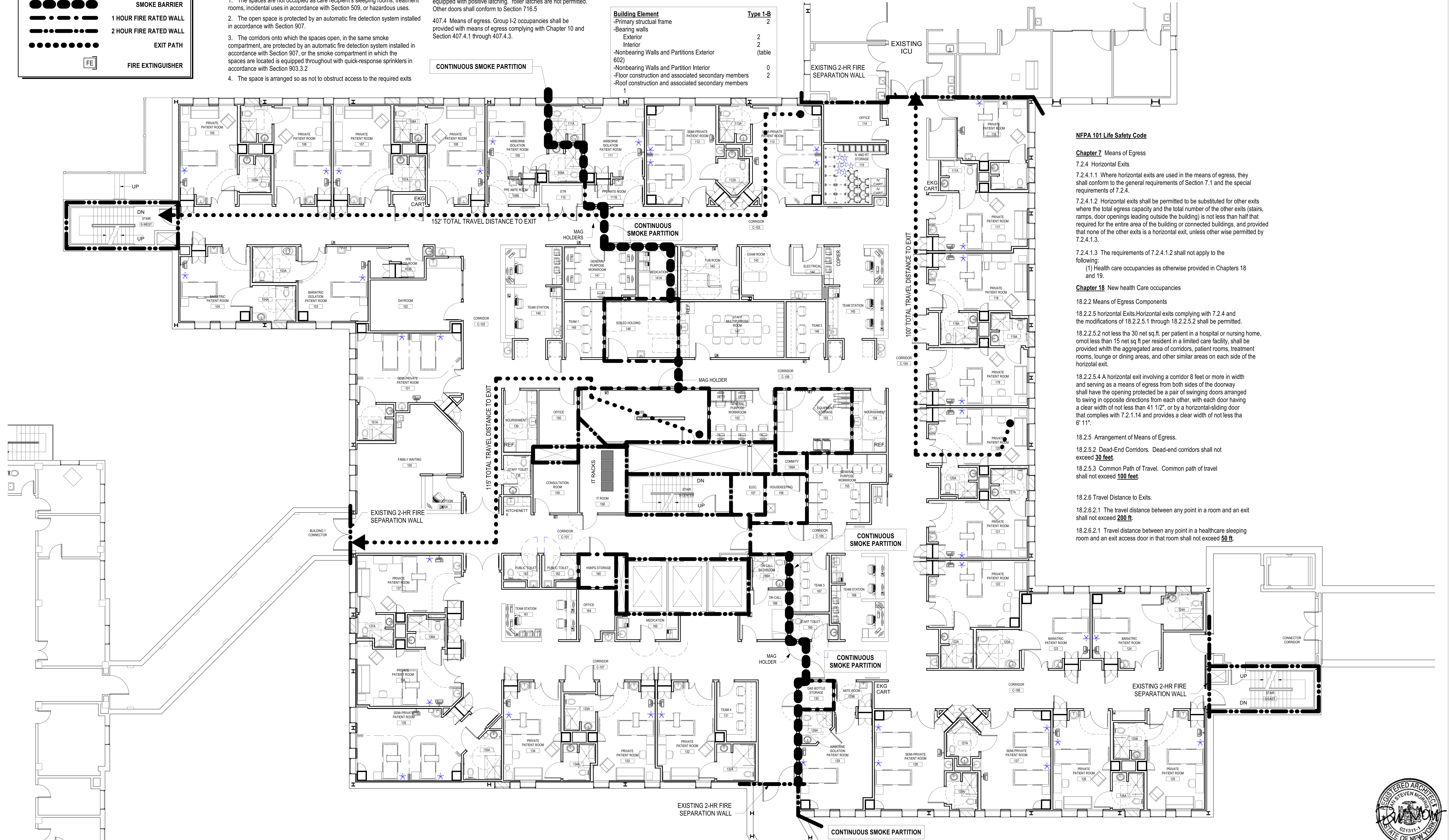
TABLE 716.5 Opening Fire Protection Assemblies, Ratings and Markings

Fire walls having a required fire-resistance rating greater than 1 Hour

-Required wall assembly	2 hours
-Minimum door and shutter assembly rating	1 1/2 hours
-Door vision panel size	100 sq. in.

Fire walls having a required fire-resistance of 1 Hour

-Required wall assembly	1 hour
-Minimum door and shutter assembly rating	1 hour
-Door vision panel size	100 sq. in.



NFPA 101 Life Safety Code

Chapter 7 Means of Egress

7.2.4 Horizontal Exits

7.2.4.1.1 Where horizontal exits are used in the means of egress, they shall conform to the general requirements of Section 7.1 and the special requirements of 7.2.4.

7.2.4.1.2 Horizontal exits shall be permitted to be substituted for other exits where the total egress capacity and the total number of the other exits (stairs, ramps, door openings leading outside the building) is not less than half that required for the entire area of the building or connected buildings, and provided that none of the other exits is a horizontal exit, unless other wise permitted by 7.2.4.1.3.

7.2.4.1.3 The requirements of 7.2.4.1.2 shall not apply to the following:
(1) Health care occupancies as otherwise provided in Chapters 18 and 19.

Chapter 18 New health Care occupancies

18.2.2 Means of Egress Components

18.2.2.5 horizontal Exits.Horizontal exits complying with 7.2.4 and the modifications of 18.2.2.5.1 through 18.2.2.5.2 shall be permitted.

18.2.2.5.2 not less tha 30 net sq.ft. per patient in a hospital or nursing home, ornot less than 15 net sq ft per resident in a limited care facility, shall be provided whith the aggregated area of corridors, patient rooms, treatment rooms, lounge or dining areas, and other similar areas on each side of the horizotal exit.

18.2.2.5.4 A horizontal exit involving a corridor 8 feet or more in width and serving as a means of egress from both sides of the doorway shall have the opening protected be a pair of swinging doors arranged to swing in opposite directions from each other, with each door having a clear width of not less than 41 1/2", or by a horizontal-sliding door that complies with 7.2.1.14 and provides a clear width of not less tha 6' 11".

18.2.5 Arrangement of Means of Egress.

18.2.5.2 Dead-End Corridors. Dead-end corridors shall not exceed **30 feet**.

18.2.5.3 Common Path of Travel. Common path of travel shall not exceed **100 feet**.

18.2.6 Travel Distance to Exits.

18.2.6.2.1 The travel distance between any point in a room and an exit shall not exceed **200 ft**.

18.2.6.2.1 Travel distance between any point in a healthcare sleeping room and an exit access door in that room shall not exceed **50 ft**.

Issued for Bidding and Construction

Number	Date	Revision

Mechanical, Plumbing & Electrical Engineering
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69 Union St
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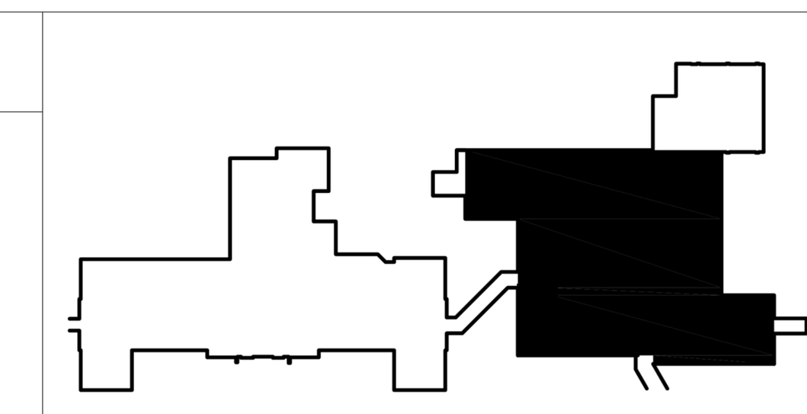

KEY PLAN

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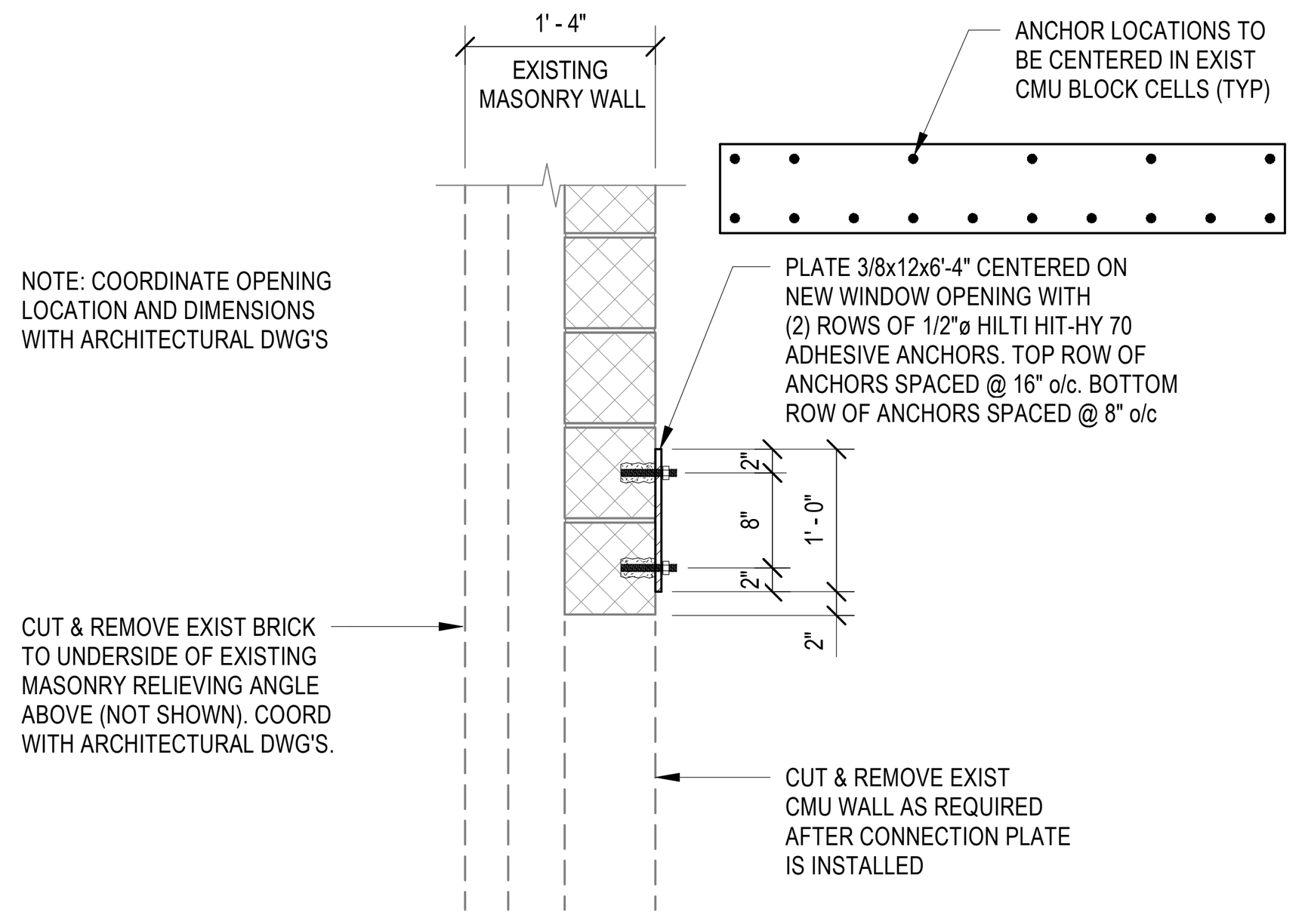
Drawing Title	LIFE SAFETY PLAN
Approved By:	Approver
Approved By:	Approver
Approved By:	Approver
Project Title	INPATIENT WARD RENOVATION
Building #	31
Scale	1/8" = 1'-0"
Location	VAMC - WHITE RIVER JUNCTION
Date	09/30/2022
VA Project No.	405-13-104
Drawing No.	31-AS-LSP

Office of Facilities

Department of Veterans Affairs

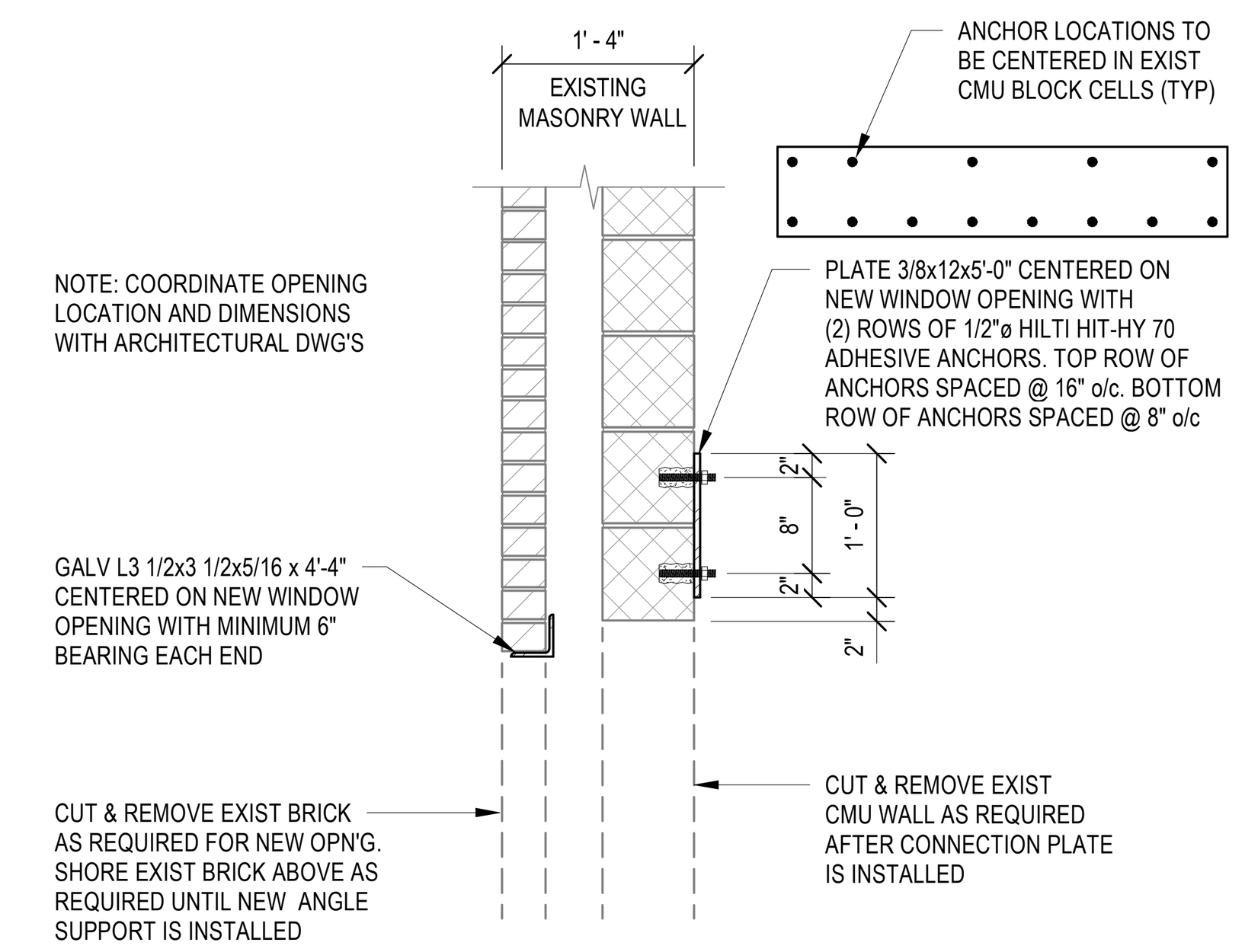
VA FORM 08-6231



1 NEW DOOR OPENING DETAIL

3/4" = 1'-0"

1. DESIGN IS BASED ON A NEW MASONRY OPENING OF 3'-4". IF OPENING IS GREATER THAN 3'-4" NOTIFY ENGINEER BEFORE PROCEEDING WITH THE WORK.
2. ALL NEW STEEL SHALL BE A36, Fy = 36 KSI.



2 NEW WINDOW OPENING DETAIL

3/4" = 1'-0"

1. DESIGN IS BASED ON A NEW MASONRY OPENING OF 4'-4". IF OPENING IS GREATER THAN 4'-4" NOTIFY ENGINEER BEFORE PROCEEDING WITH THE WORK.
2. ALL NEW STEEL SHALL BE A36, Fy = 36 KSI.

Issued for Bidding, Permitting & Construction

Number	Date	Revision

Mechanical, Plumbing & Electrical Engineering
L.N. Consulting
69 Union St
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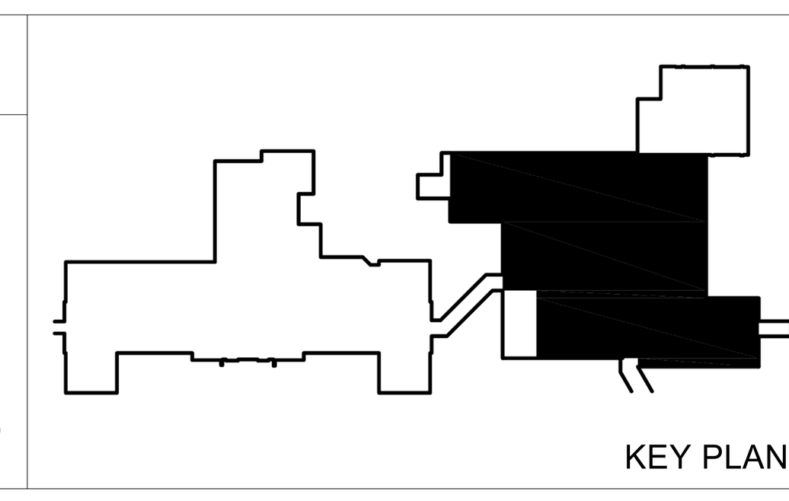

KEY PLAN

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Drawing Title: STRUCTURAL DETAILS

Approved By:

Approved By:

Approved By:

Project Title: INPATIENT WARD RENOVATION

Building #: 31

Scale: 3/4" = 1'-0"

Location: VAMC - WHITE RIVER JUNCTION

Date: September 30, 2022

VA Project No.: 405-13-104

Drawing No.: 31-ST-101

Office of Facilities

Department of Veterans Affairs

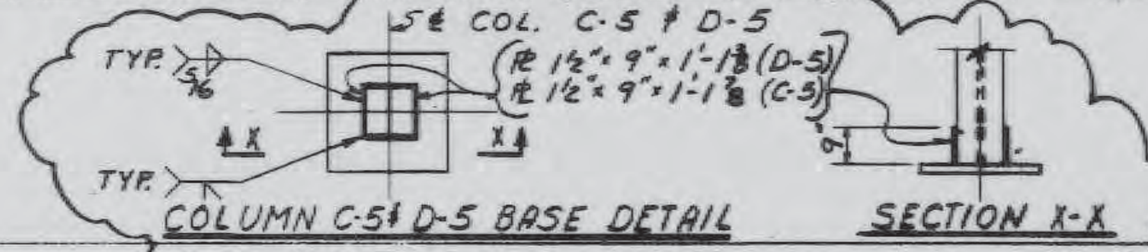
VA FORM 08-6231

COLUMN SCHEDULE

COL. No. / FL. ELEV.	A-2	A-2.3	A-2.6	A-3	A.5-2	A.5-2.3	A.5-3	B-2	B-2.3	B-3	B-4	B-4.4	B-4.7	B5	B-5.2	B-5.5	B-6	B.5-2
PH. ROOF TOP/ ROOF EL. 693.58																		
MAIN ROOF TOP/ ROOF EL. 679.33		W8x31	W8x31					W10x112 ⊕		W12x85	W10x89	W10x60	W10x60	W10x60	W10x60	W10x60	W10x60	W10x72
2ND FL. TOP/ FL. EL. 664.66	W10x89	W8x31	W8x31	W10x89	W10x77 ⊕		W10x77 ⊕	W10x112 ⊕		W12x85	W10x89	W10x60	W10x60	W10x60	W10x60	W10x60	W10x60	W10x72
1ST FL. TOP/ FL. EL. 651.33	W10x89	W8x31	W8x31	W10x89	W10x77 ⊕		W10x77 ⊕	W10x112 ⊕		W12x120 ⊕	W10x89	W10x60	W10x60	W10x60	W10x60	W10x60	W10x60	W10x72
GR. FL. TOP/ FL. EL. 638.00		W8x31	W8x31		W10x77 ⊕	W8x31	W10x77 ⊕	W10x112 ⊕	W12x58	W12x120 ⊕	W10x89		W10x60	W10x60	W10x60	W10x60		W10x72
BOT./BASE ℞ EL.	636.42	635.96	635.96	636.42	635.21	627.08	635.21	634.58	627.08	634.54	635.12	637.17	635.12	635.12	635.46	635.46	636.42	634.96
BASE ℞ SIZE & TYPE (t x B x N)	1¾x23x23 "F"	⅞x12x13 "C"	⅞x12x13 "C"	1¾x23x23 "F"	1⅜x21x21 "F"	¾x10x10 "C"	1⅜x21x21 "F"	2⅛x26x26 "H"	1⅞x23x23 "F"	2x31x31 "F"	1⅞x22x22 "B"	1¾x21x21 "F"	1⅝x20x20 "A"	1⅞x23x23 "F"	1¾x20x20 "F"	1¾x21x21 "F"	1½x21x21 "A"	1¾x23x23 "A"
COLUMN LOAD	126K	118K	112K	116K	236K	71K	242K	482K	87K	686K	310K	169K	182K	195K	187K	187K	105K	149K

COL. No. / FL. ELEV.	B.5-2.3	B.5-3	B.5-4	B.5-4.7	B.5-5	B.5-5.2	B.5-5.5	B.5-6	B.7-2.5	B.7-2.9	B.7-3.5	B.7-4.2	C-2	C-2.3	C-2.4	C-2.9	C-4	C-4.7	C-5
PH. ROOF TOP/ ROOF EL. 693.58									W8x31	W8x31	W8x31	W8x31			W8x31	W12x79	W12x65	W12x92	
MAIN ROOF TOP/ ROOF EL. 679.33								W10x60					W10x112 ⊕			W12x79	W12x65	W12x92	W12x85
2ND FL. TOP/ FL. EL. 664.66								W10x60					W10x112 ⊕			W12x120 ⊕	W12x120	W12x106	W12x85
1ST FL. TOP/ FL. EL. 651.33								W10x60					W10x112 ⊕			W12x161 ⊕	W12x190 ⊕	W12x106	W12x161
GR. FL. TOP/ FL. EL. 638.00	W8x31	W12x79	W12x58	W12x58	W12x58	W8x31	W8x31	W10x60					W10x112 ⊕	W12x58		W12x161 ⊕	W12x190 ⊕	W12x120	W12x161
BOT./BASE ℞ EL.	627.08	627.08	627.08	627.08	627.08	627.08	627.08	635.62	678.95	678.95	678.95	678.95	634.54	627.08	678.95	627.08	627.08	627.08	627.08
BASE ℞ SIZE & TYPE (t x B x N)	⅞x12x12 "C"	1½x22x22 "A"	1⅛x22x22 "E"	1⅛x22x22 "E"	1½x22x22 "A"	¾x10x10 "C"	¾x10x10 "C"	1¼x19x19 "E"	½x9x9	½x9x9	½x9x9	½x9x9	2⅞x28x28 "K"	2x24x24 "H"	½x9x9	4x40x40 "F"	3⅝x36x36 "D"	2¾x30x30 "H"	2⅝x30x30 "A"
COLUMN LOAD	100K	111K	104K	81K	58K	63K	63K	126K	6K	12K	12K	12K	577K	86K	14K	1000K	779K	586K	595K

NOTE: SEE COLUMN C-5 BASE DETAIL. ⚠1



NOTE: SEE COLUMN D-5 BASE DETAIL ⚠1

COLUMN SCHEDULE

COL. No. / FL. ELEV.	C-5.1	C-5.2	C-5.5	C-6	D-2	D-2.3	D-2.4	D-2.9	D-4	D-4.7	D-5	D-5.1	D-5.2	D-5.5	D-6	D.9-6	D.9-6.2	E-1
PH. ROOF TOP/ ROOF EL. 693.58	W8x31				W10x60		W8x31	W12x79	W12x120	W12x120		W8x31						
MAIN ROOF TOP/ ROOF EL. 679.33				W10x89	W10x112 ⊕			W12x79	W12x120	W12x120	W12x133				W10x89			
2ND FL. TOP/ FL. EL. 664.66				W10x89	W10x112 ⊕			W12x133	W12x120	W12x120	W12x133				W10x89	W10x60	W10x60	W10x60
1ST FL. TOP/ FL. EL. 651.33				W10x89	W10x112 ⊕			W12x161 ⊕	W12x161 ⊕	W12x120	W12x133				W10x89	W10x60	W10x60	W10x60
GR. FL. TOP/ FL. EL. 638.00		W12x58	W12x58	W10x89	W10x112 ⊕	W12x58		W12x161 ⊕	W12x161 ⊕	W12x120	W12x133		W12x58	W12x58	W10x89	W10x60	W10x60	W10x60
BOT./BASE ℞ EL.	678.95	627.08	627.08	635.27	634.81	627.08	678.95	627.08	627.08	627.08	627.08	678.95	627.08	627.08	635.43	631.08	631.08	634.50
BASE ℞ SIZE & TYPE (t x B x N)	½x9x9	1¾x22x22 "F"	1¾x23x23 "F"	2¼x25x25 "G"	2⅝x27x27 "F"	2x24x24 "H"	½x9x9	4x40x40 "F"	3⅝x36x36 "D"	2⅝x28x28 "F"	2⅝x30x30 "A"	½x9x9	1¾x22x22 "F"	1¾x22x22 "F"	2¼x25x25 "G"	1½x19x19 "A"	1¼x19x19 "G"	1½x19x19 "E"
COLUMN LOAD	51K	59K	63K	410K	540K	61K	21K	974K	-51K	561K	585K	52K	40K	44K	407K	157K	73K	115K

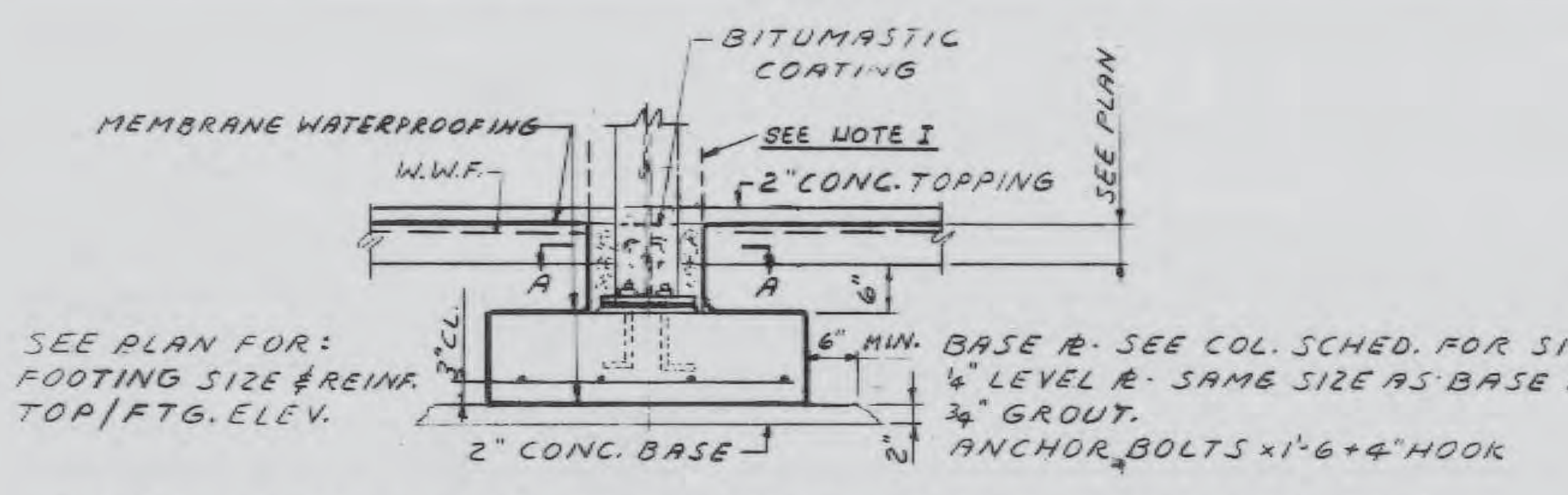
COL. No. / FL. ELEV.	E-1.5	E-2	E-2.3	E-3	E-4	E-4.7	E-5	E-5.2	E-5.5	E.2-2.5	E.2-2.9	E.2-3.5	E.2-4.2	E.3-4	E.3-1	E.5-4	E.5-1	E.5-1.5	E.5-2
PH. ROOF TOP/ ROOF EL. 693.58		W10x60								W8x31	W8x31	W8x31	W8x31						
MAIN ROOF TOP/ ROOF EL. 679.33		W10x60																	
2ND FL. TOP/ FL. EL. 664.66	W10x60	W10x60												W8x31	W8x31	W8x31	W8x31		
1ST FL. TOP/ FL. EL. 651.33	W10x60	W10x60												W8x31	W8x31	W8x31	W8x31		
GR. FL. TOP/ FL. EL. 638.00	W10x60	W10x60	W8x31	W12x58	W12x58	W12x58	W12x58	W8x31	W8x31					W8x31	W8x31	W8x31	W8x31	W8x31	W12x58
BOT./BASE ℞ EL.	635.08	635.08	627.08	627.08	627.08	627.08	627.08	627.08	627.08	678.95	678.95	678.95	678.95	634.50	634.50	634.50	634.50	624.91	624.91
BASE ℞ SIZE & TYPE (t x B x N)	1½x19x19 "E"	2x22x22 "F"	¾x10x12 "C"	1½x22x22 "A"	1⅛x22x22 "E"	1⅛x22x22 "E"	1¼x22x22 "G"	¾x9x9 "C"	¾x9x9 "C"	½x9x9	½x9x9	½x9x9	½x9x9	¾x10x10 "C"	¾x10x12 "C"	¾x10x10 "C"	⅞x12x13 "C"	¾x10x10 "C"	1½x22x22 "A"
COLUMN LOAD	225K	243K	77K	73K	70K	53K	37K	32K	36K	14K	12K	12K	12K	30K	89K	30K	117K	75K	86K

COLUMN SCHEDULE

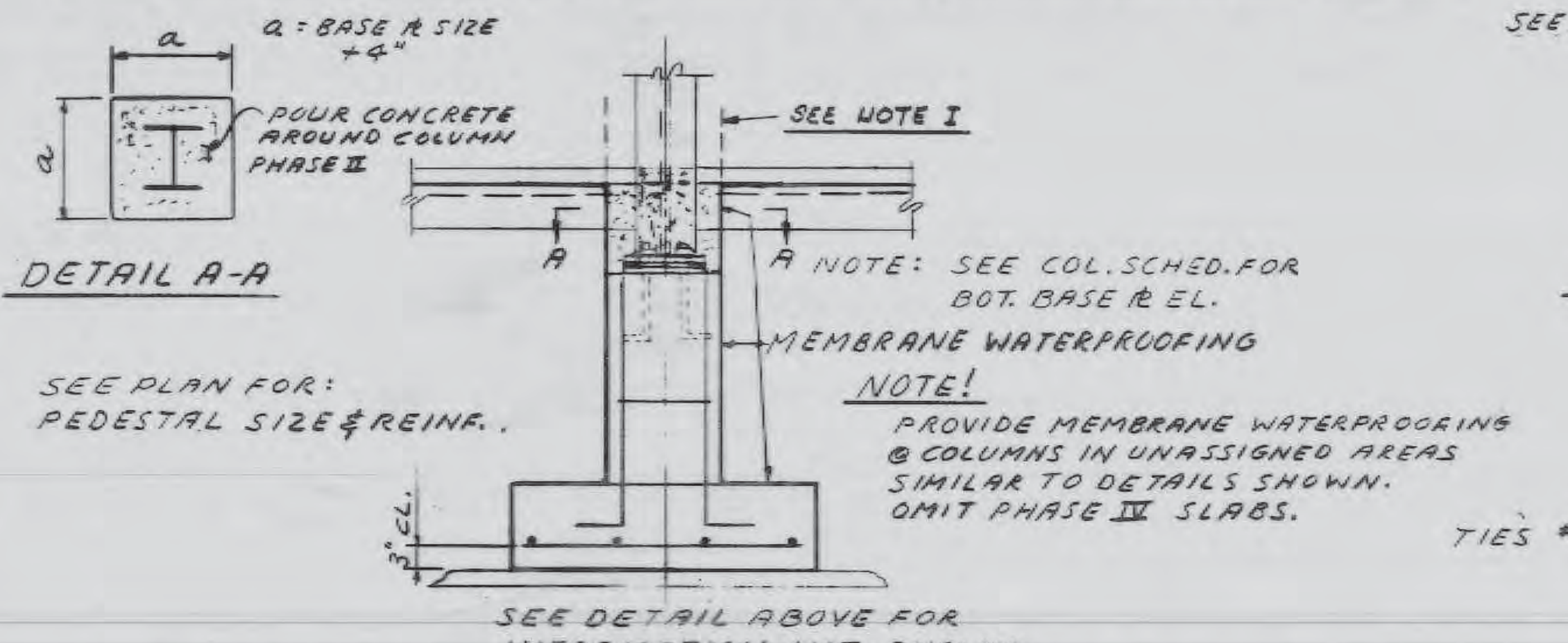
COL. No. / FL. ELEV.	E.5-2.3	E.5-3	E.5-4	E.5-4.7	E.5-5	E.5-5.2	E.5-5.5	E.5-6.2	F-1	F-1.5	F-2	F-2.2	F-2.5	F-2.7	F-3	F-3.3	F-4	F-4.7	F-4.9
PH. ROOF TOP/ ROOF EL. 693.58																			
MAIN ROOF TOP/ ROOF EL. 679.33											W10x89	W10x60	W10x60	W10x60	W10x89	W10x60	W10x89	W10x89	W10x112 ⊕
2ND FL. TOP/ FL. EL. 664.66								W10x60	W10x60	W10x66	W10x89	W10x60	W10x60	W10x60	W10x89	W10x60	W10x89	W10x89	W10x112 ⊕
1ST FL. TOP/ FL. EL. 651.33								W10x60	W10x60	W10x66	W10x89	W10x60	W10x60	W10x60	W10x89	W10x60	W10x89	W10x89	W10x112 ⊕
GR. FL. TOP/ FL. EL. 638.00	W8x31	W12x58	W12x58	W12x58	W12x58	W8x31	W8x31	W10x60	W10x60	W10x66	W10x89	W10x60	W10x60	W10x60	W10x89	W10x60	W10x89	W10x89	W10x112 ⊕
BOT./BASE ℞ EL.	624.91	627.08	627.08	627.08	627.08	627.08	627.08	631.08	634.42	635.08	626.83	626.83	626.83	626.83	626.83	626.75	626.75	626.75	626.75
BASE ℞ SIZE & TYPE (t x B x N)	¾x10x10 "C"	1½x22x22 "A"	1⅛x22x22 "E"	1⅛x22x22 "E"	1¼x22x22 "B"	¾x10x10 "C"	¾x10x10 "C"	1½x21x21 "A"	1¾x20x20 "E"	1⅞x20x20 "E"	2¼x24x24 "F"	1¾x20x20 "F"	1¾x20x20 "A"	1¾x20x20 "A"	2x24x24 "F"	1½x19x19 "E"	2x23x23 "E"	2⅛x23x23 "F"	2⅝x28x28 "G"
COLUMN LOAD	71K	95K	95K	72K	49K	49K	61K	134K	123K	244K	285K	205K	224K	208K	222K	217K	357K	300K	549K

COL. No. / FL. ELEV.	F-5.2	F-5.5	F-6	F-6.2	F.5-4.9	F.5-5.3	F.5-6.2	G-4.9	G-5.1	G-5.3	G-6.2	H-5.1	H-5.3	X-2.3	X-2.6	B.7-4.7	B.7-5	E.2-4.7	E.2-5
PH. ROOF TOP/ ROOF EL. 693.58																W8x31	W8x31	W8x31	W8x31
MAIN ROOF TOP/ ROOF EL. 679.33			W8x31		W8x31 PHASE IV			W8x31 PHASE IV	W8x31	W8x40		W8x31	W8x31	W8x31	W8x31				
2ND FL. TOP/ FL. EL. 664.66				W10x112	W10x89		W10x89	W10x66	W8x31	W8x40	W10x60	W8x31	W8x31	W8x31	W8x31				
1ST FL. TOP/ FL. EL. 651.33				W10x112	W10x89		W10x89	W10x66	W8x31	W8x40	W10x60	W8x31	W8x31	W8x31	W8x31				
GR. FL. TOP/ FL. EL. 638.00	W12x58	W12x58		W10x112	W10x89	W8x31	W10x89	W10x66 ⚠1	W8x31	W8x40	W10x60	W8x31	W8x31						
BOT./BASE ℞ EL.	627.08	627.08	664.12	629.67	626.75	627.08	629.67	626.08	627.08	629.00	629.67	627.08	627.08	636.42	636.42	678.95	678.95	678.95	678.95
BASE ℞ SIZE & TYPE (t x B x N)	1¾x22x22 "F"	1¾x22x22 "F"	½x9x9	2½x28x28 "G"	1¾x20x20 "G"	¾x10x12 "C"	1⅝x20x20 "E"	1⅜x19x19 "G"	1⅛x13x15 "C"	1¼x15x16 "C"	1¼x19x19 "E"	¾x10x12 "C"	¾x10x12 "C"	¾x10x10 "C"	¾x10x10 "C"	½x9x9	½x9x9	½x9x9	½x9x9
COLUMN LOAD	41K	49K	62K	505K	269K	76K	268K	153K	144K	179K	162K	79K	79K	54K	54K	10K	6K	10K	6K

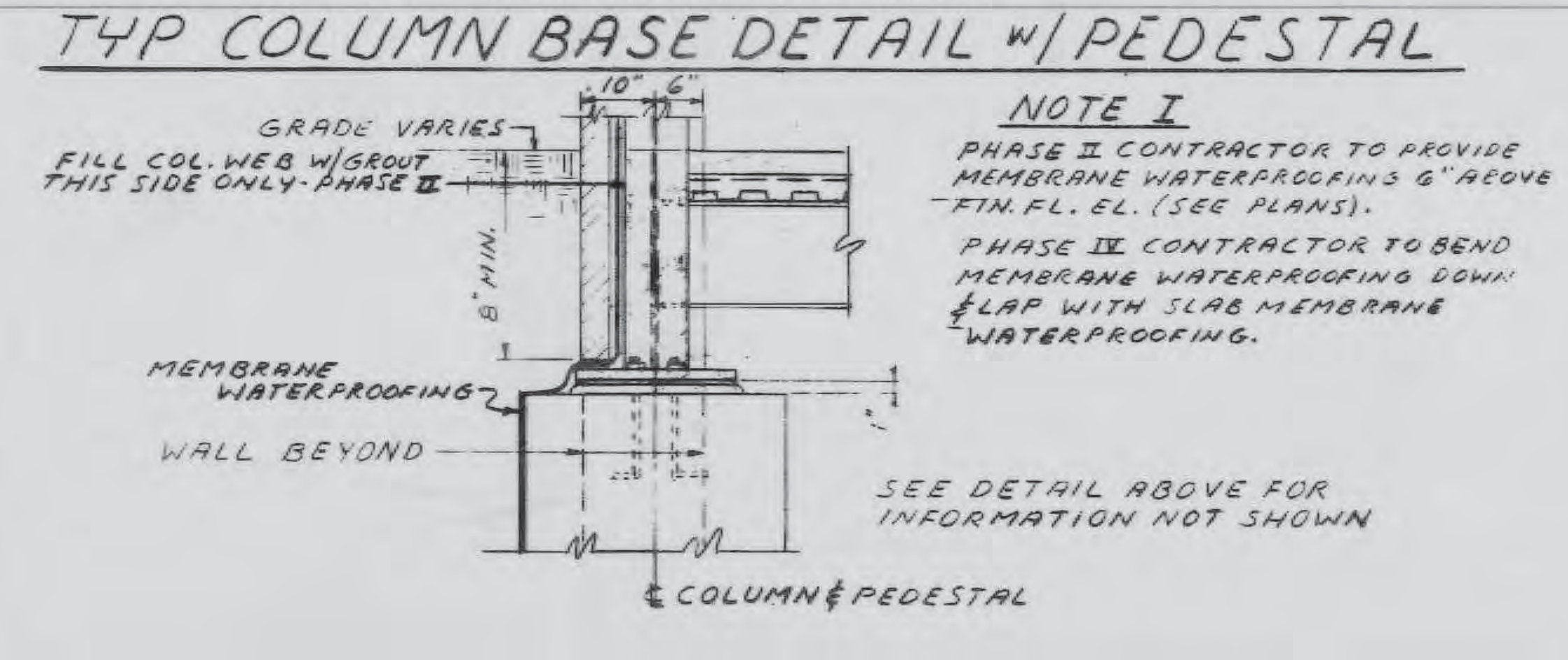
⊕ DENOTES ASTM A572 STEEL - GRADE 50



TYP. COLUMN BASE DETAIL W/O PEDESTAL

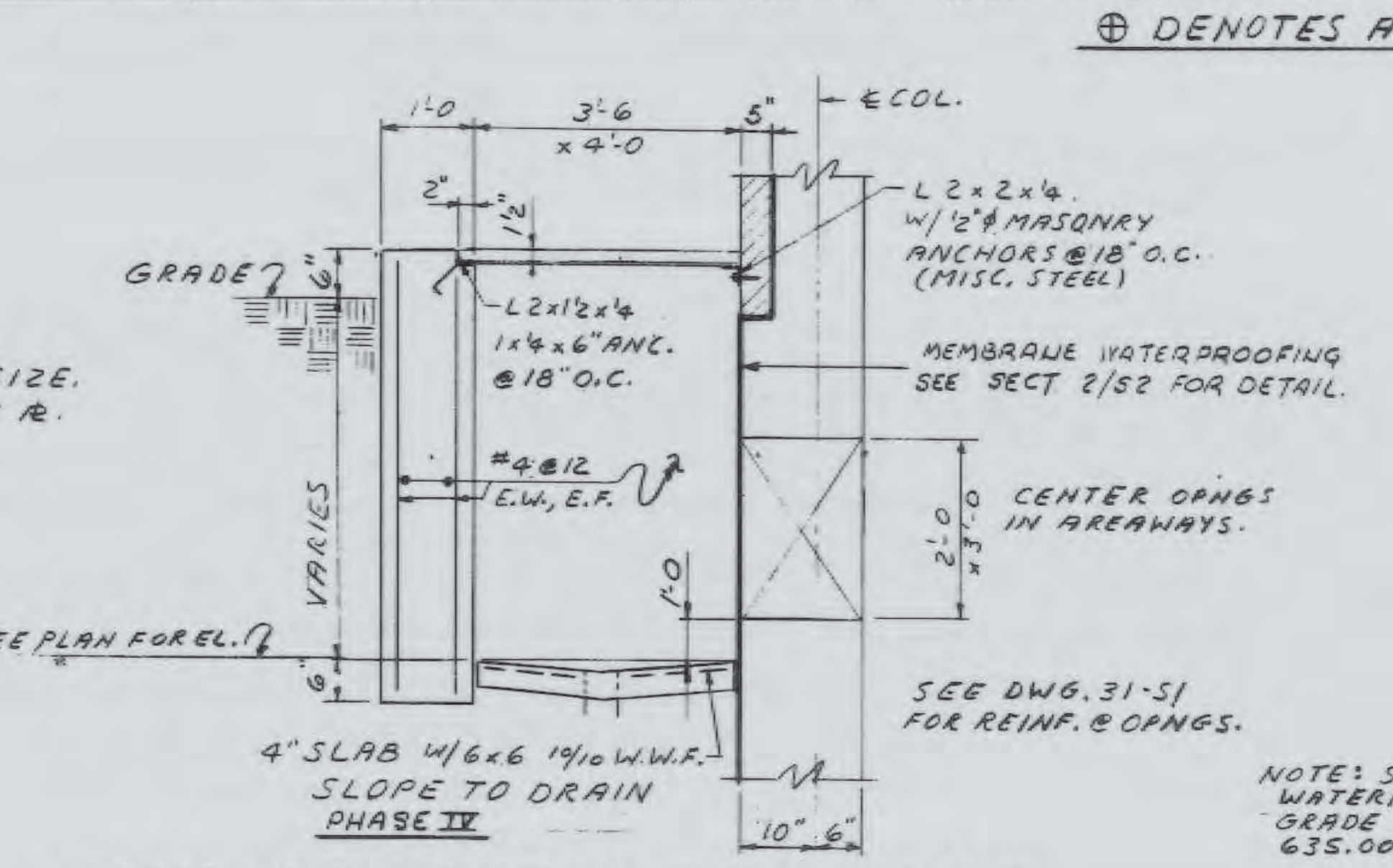


TYP COLUMN BASE DETAIL W/ PEDESTAL

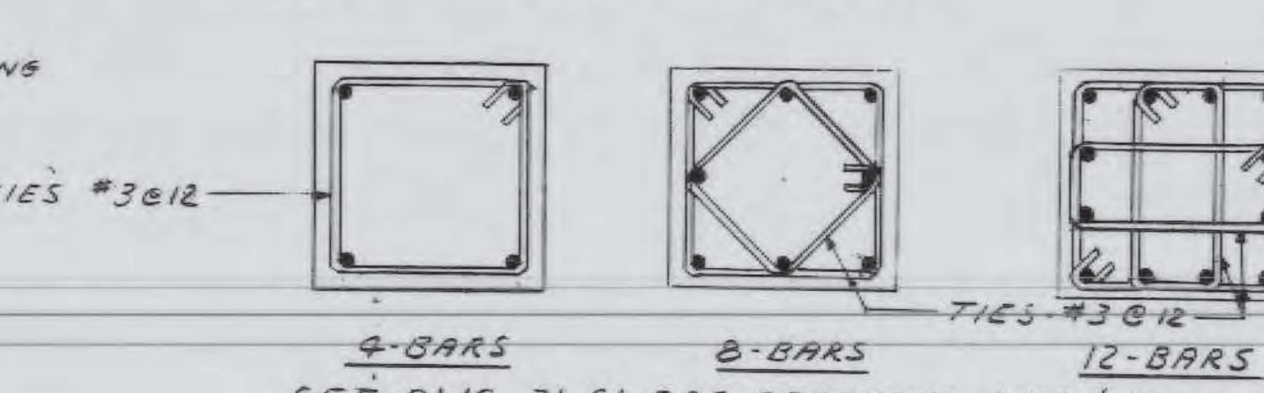


NOTE I
PHASE II CONTRACTOR TO PROVIDE MEMBRANE WATERPROOFING 6" ABOVE FIN. FL. EL. (SEE PLANS).
PHASE IV CONTRACTOR TO BEND MEMBRANE WATERPROOFING DOWN/LAP WITH SLAB MEMBRANE WATERPROOFING.

TYP. EXTERIOR COLUMN BASE DETAIL

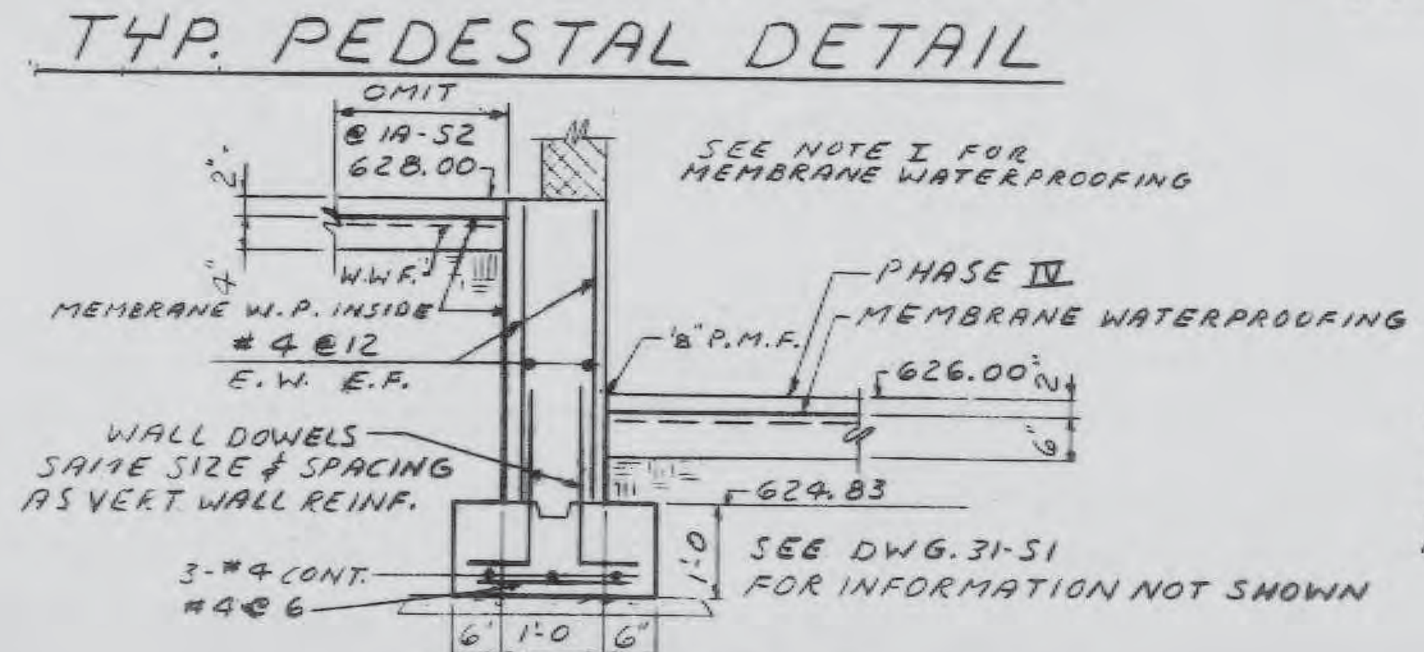


TYP. SECTION @ AREAWAYS
UNLESS SHOWN OTHERWISE

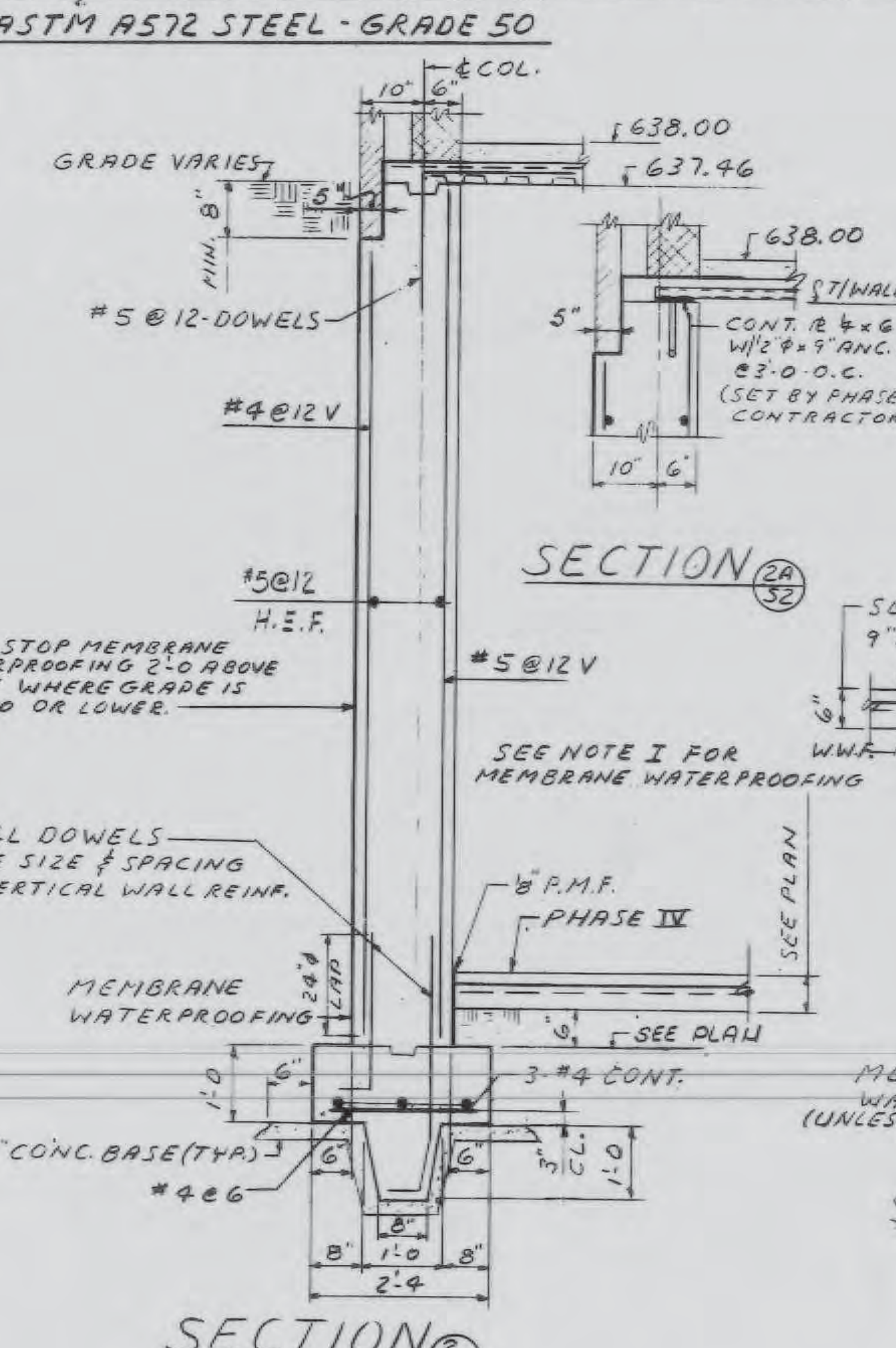


SEE DWG. 31-S1 FOR PEDESTAL SIZE & REINF.

TYP. PEDESTAL DETAIL



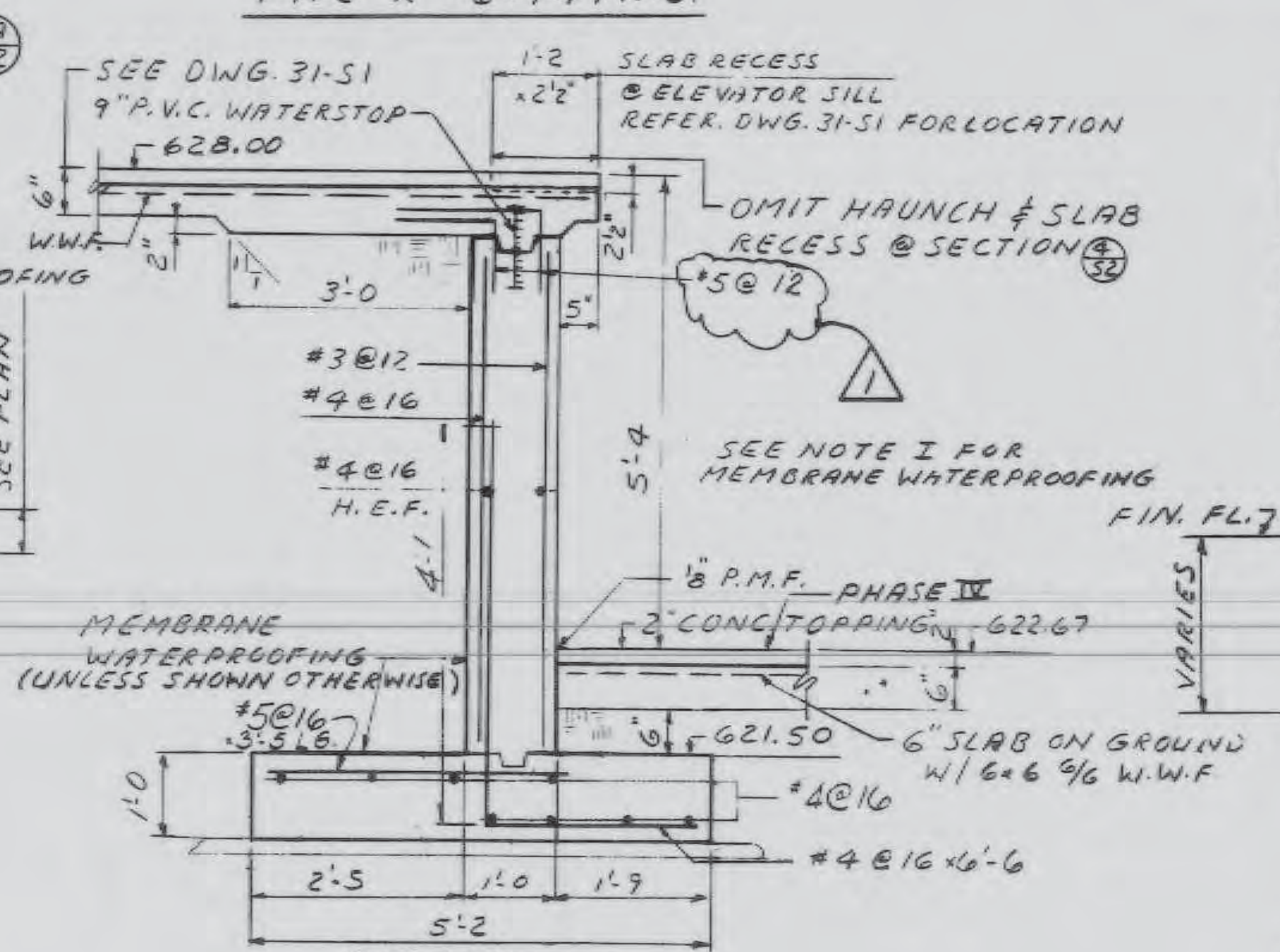
SECTION (1/S2) (1A/S2) AS SHOWN



SECTION (2A/S2)

SECTION (2/S2)

SECTION (2A/S2) AS SHOWN

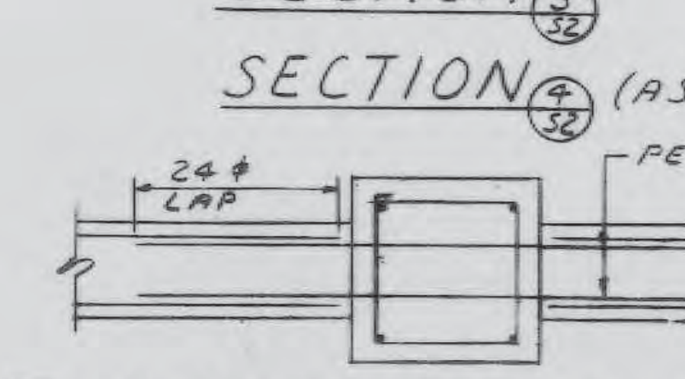


SECTION (3/S2)

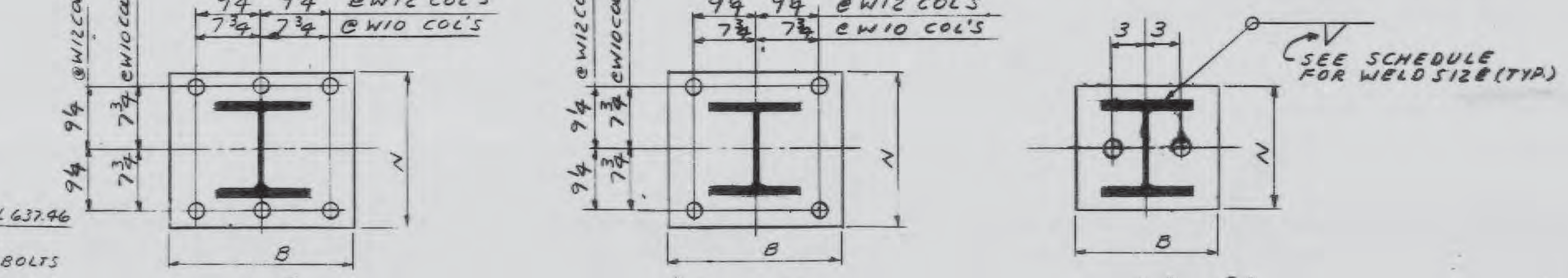
SECTION (4/S2) (AS NOTED)

NOTE:

PHASE I - STRUCTURAL STEEL
PHASE II - PEDESTALS, WALLS, FOOTINGS
PHASE IV - SLAB ON GROUND, AREAWAY SLABS, LT. WEIGHT CONC. GROUND FLOOR & STRUCTURAL STEEL AS NOTED



TYP. PEDESTAL TO WALL DOWELS

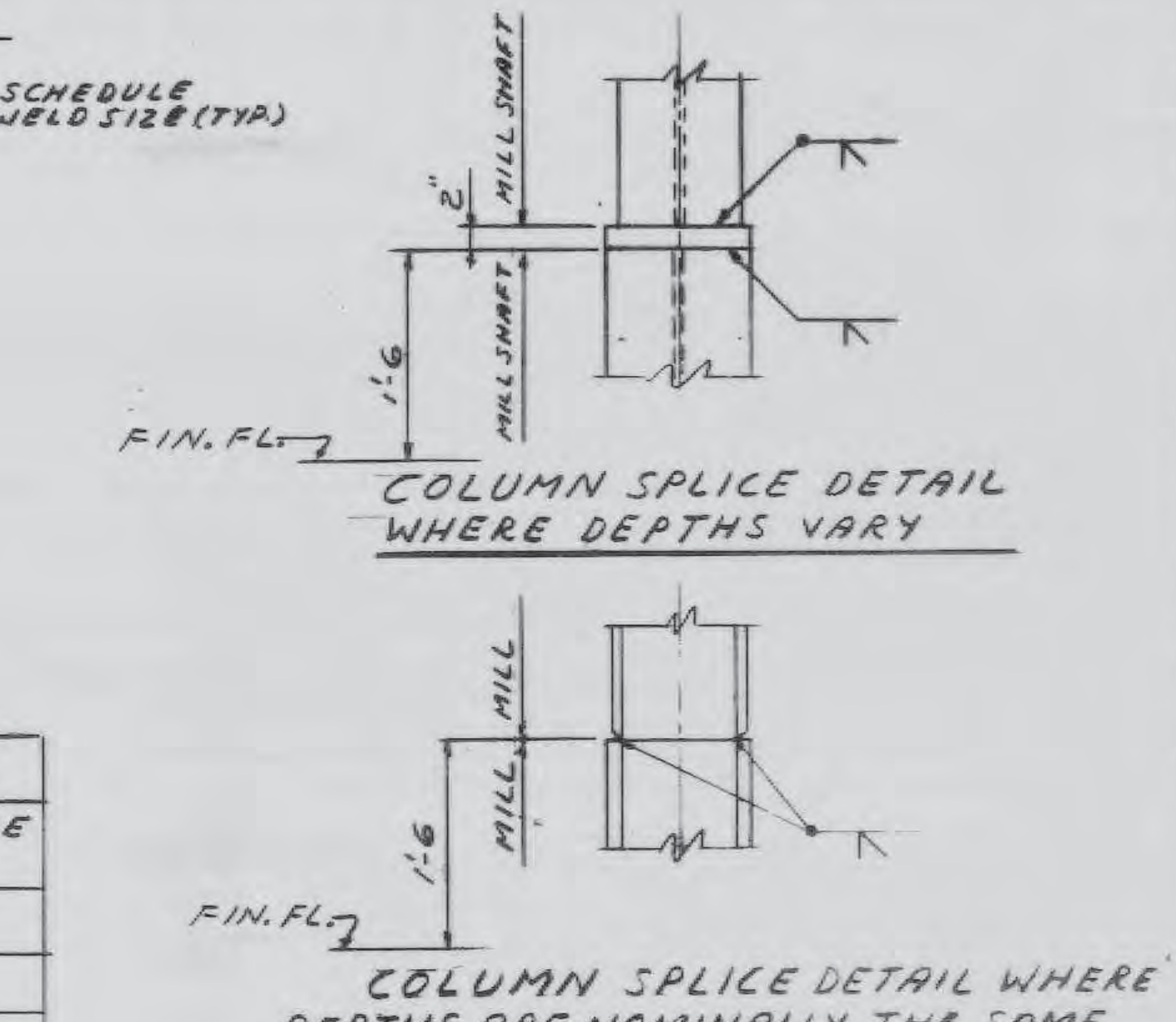


TYPE "A" - 6 - ⅞" ø A.B.
TYPE "F" - 6 - 1" ø A.B.
TYPE "G" - 6 - ¾" ø A.B.
TYPE "H" - 6 - 1⅛" ø A.B.
TYPE "K" - 6 - 1¼" ø A.B.

TYPE "B" - 4 - ⅞" ø A.B.
TYPE "D" - 4 - 1" ø A.B.
TYPE "E" - 4 - ¾" ø A.B.

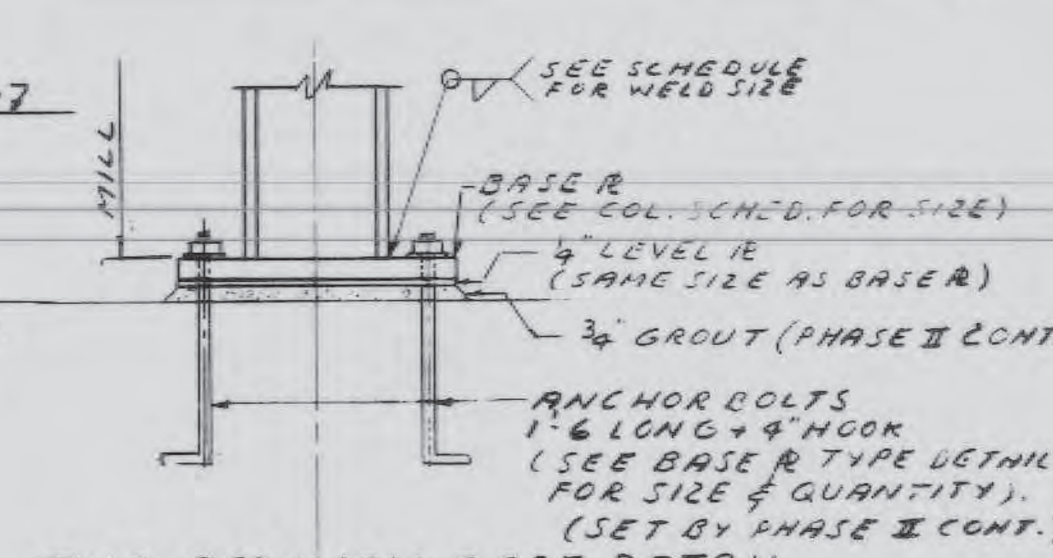
TYPE "C" - 2 - ¾" ø A.B.

BASE ℞ WELD SIZE SCHEDULE	
BASE ℞ THICKNESS (INCHES)	FILLET WELD SIZE (INCHES)
¾" TO 1½"	5⁄16"
OVER 1½" TO 2¼"	⅜"
OVER 2¼" TO 4"	½"



COLUMN SPLICE DETAIL WHERE DEPTHS VARY

COLUMN SPLICE DETAIL WHERE DEPTHS ARE NOMINALLY THE SAME



TYP. COLUMN BASE DETAIL

2-2-1-1550

COLUMN SCHEDULE & SECTIONS	
BUILDING NO. 31	
NEW 204 BED HOSPITAL BUILDING	
VETERANS ADMINISTRATION WHITE RIVER JUNCTION, VERMONT	
Drawn TC / Checked JG / Proj. Mgr. SB / Date OCT 22 '71	REVISIONS: No. ⚠1, Date 9-10-74, Description AS BUILT
BELLANTE CLAUSS MILLER & NOLAN ARCHITECTS ENGINEERS PLANNERS 130 NORTH WASHINGTON AVE. SCRANTON, PA.	DRAWING NUMBER 31—S2
	Sheet 2 of 13
	Proj. No. 44-5053

FOUNDATION DETAILS

BUILDING NO. 31

NEW 204 BED HOSPITAL BUILDING

VETERANS ADMINISTRATION

WHITE RIVER JUNCTION, VERMONT

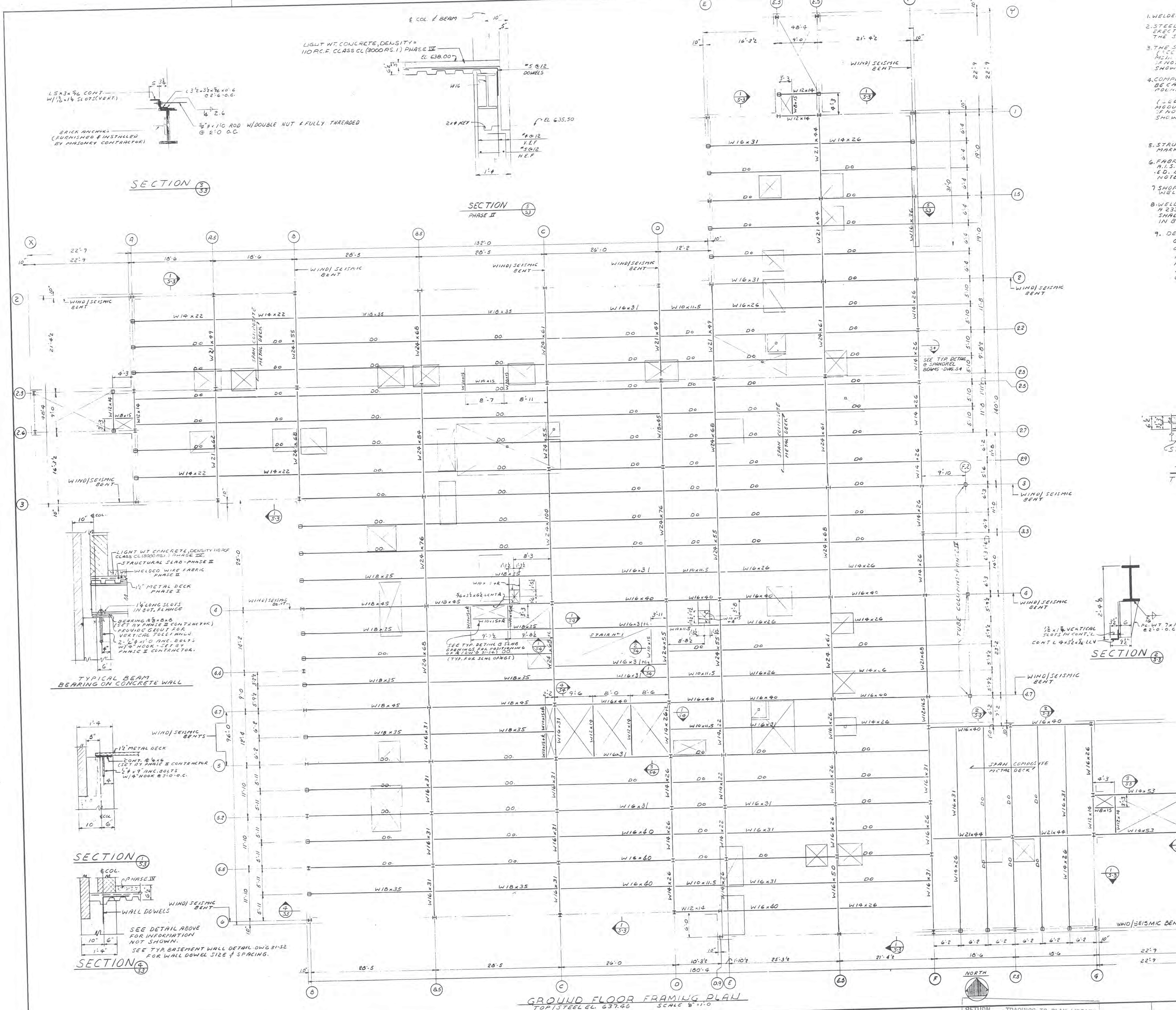
BELLANTE CLAUSS MILLER & NOLAN

ARCHITECTS ENGINEERS PLANNERS

130 NORTH WASHINGTON AVE. SCRANTON, PA.

DRAWING NUMBER 31-S2A

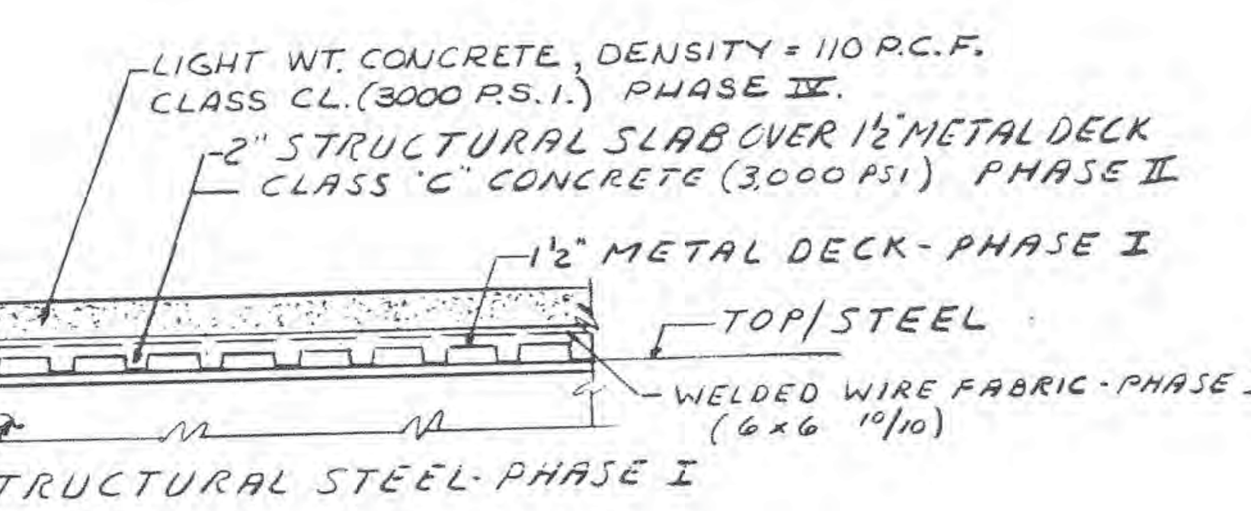
Proj. No. 44-5053



GENERAL NOTES - STEEL

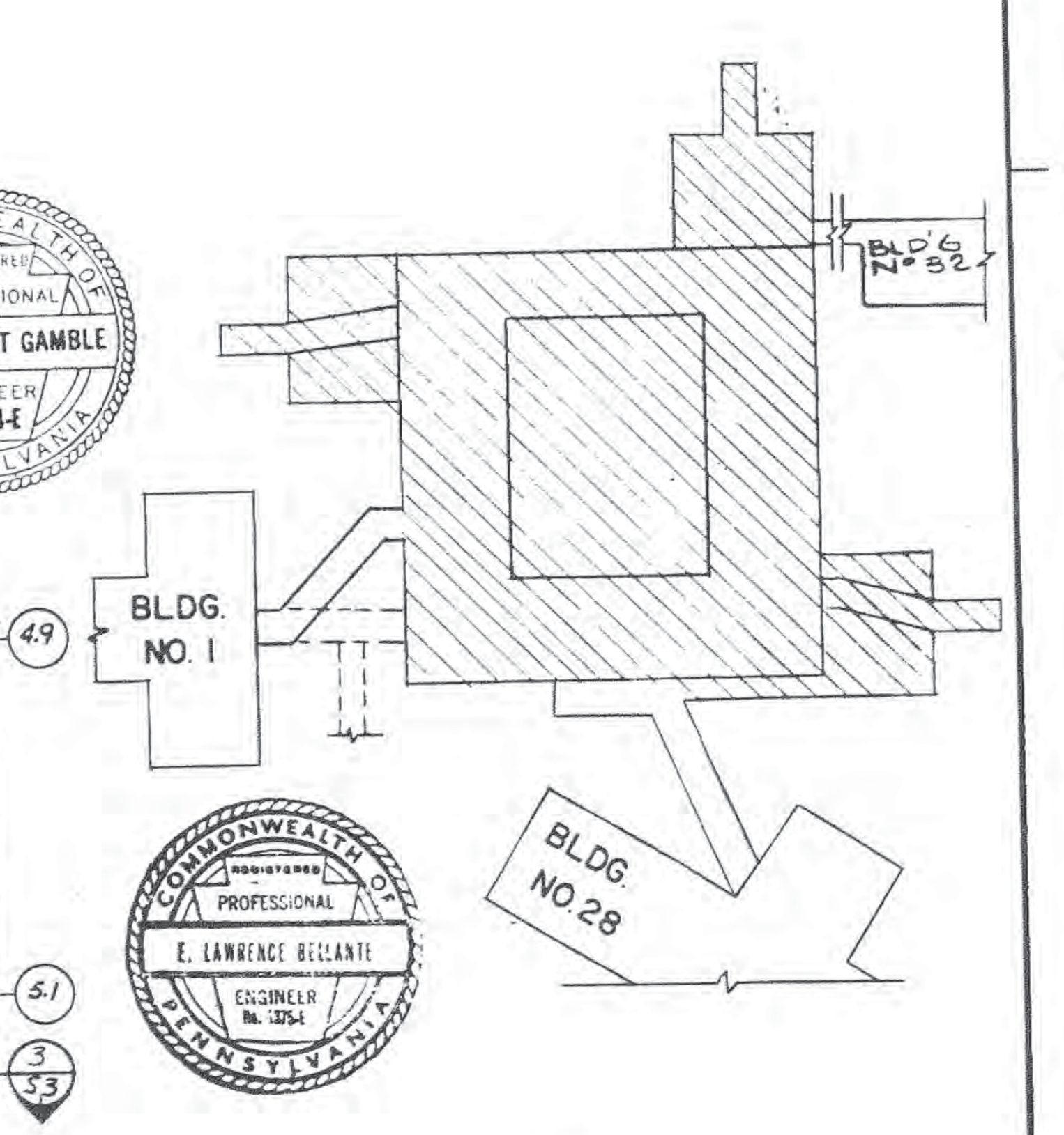
1. WELDED WIRE FABRIC: (W.W.F.) A.S.T.M.-A-185, TO BE 6×6 10/10 - PHASE II
2. STEEL JOISTS, BRACING, BRIDGING, ETC. SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS OF THE STEEL JOIST INSTITUTE.
3. THE STEEL ROOF UNITS SHALL BE 1½" DEEP, 22 GAGE, GALVANIZED, (SEE SPEC'S) AND SHALL BE SO FORMED AS TO HAVE A SECTION MODULUS OF AT LEAST Sp = Sn = .214 in³ AND A MOMENT OF INERTIA OF NOT LESS THAN .18 in⁴ PER FOOT OF WIDTH, UNLESS OTHERWISE SHOWN ON THE DESIGN DRAWINGS.
4. COMPOSITE FLOOR UNITS (COMBINED STEEL AND CONCRETE) SHALL BE CAPABLE OF SUPPORTING A SUPERIMPOSED LOAD OF (NOTE 9) POUNDS PER SQUARE FOOT.
UNITS TO BE 1½" DEEP, 22 GAGE, GALVANIZED, (SEE SPEC'S) AND SHALL BE SO FORMED AS TO HAVE A SECTION MODULUS OF AT LEAST Sn = Sp = .214 in³ AND A MOMENT OF INERTIA OF NOT LESS THAN .18 in⁴ PER FOOT OF WIDTH, UNLESS OTHERWISE SHOWN ON THE DESIGN DRAWINGS.
5. STRUCTURAL STEEL SHALL CONFORM TO A.S.T.M. A36 UNLESS MARKED FOR A.S.T.M. A572.
6. FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST A.I.S.C. SPECIFICATIONS. CONNECTIONS MAY BE BOLTED OR WELDED. BOLTS SHALL CONFORM TO A.S.T.M. A 325, ¾"φ UNLESS NOTED OTHERWISE.
7. SHOP AND ERECTION DRAWINGS MUST SHOW ALL SHOP AND FIELD WELDS.
8. WELDING ELECTRODES SHALL CONFORM TO E70 SERIES A.S.T.M. A 233. ALL WELDING AND WELDING SYMBOLS ON DRAWINGS SHALL CONFORM TO A.W.S. STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION.
9. DESIGN LIVE LOADS:

GROUND FL. (DINING, REC'R, PLANNED ACTIVITY)	100 PSF
OTHER GROUND FLOOR	60 PSF
1ST FLOOR & 2ND FLOOR	60 PSF
PENTHOUSE FLOOR	150 PSF
ROOFS	40 PSF
CORRIDORS	100 PSF



TYPICAL CONSTRUCTION PHASES
TYP. ALL FLOOR SLABS UNLESS SHOWN OTHERWISE (REFER DWGS. 31-S4, 31-S5.)

REGISTERED PROFESSIONAL ENGINEER — JOHN ROBERT GAMBLE — 15874-E — COMMONWEALTH OF PENNSYLVANIA



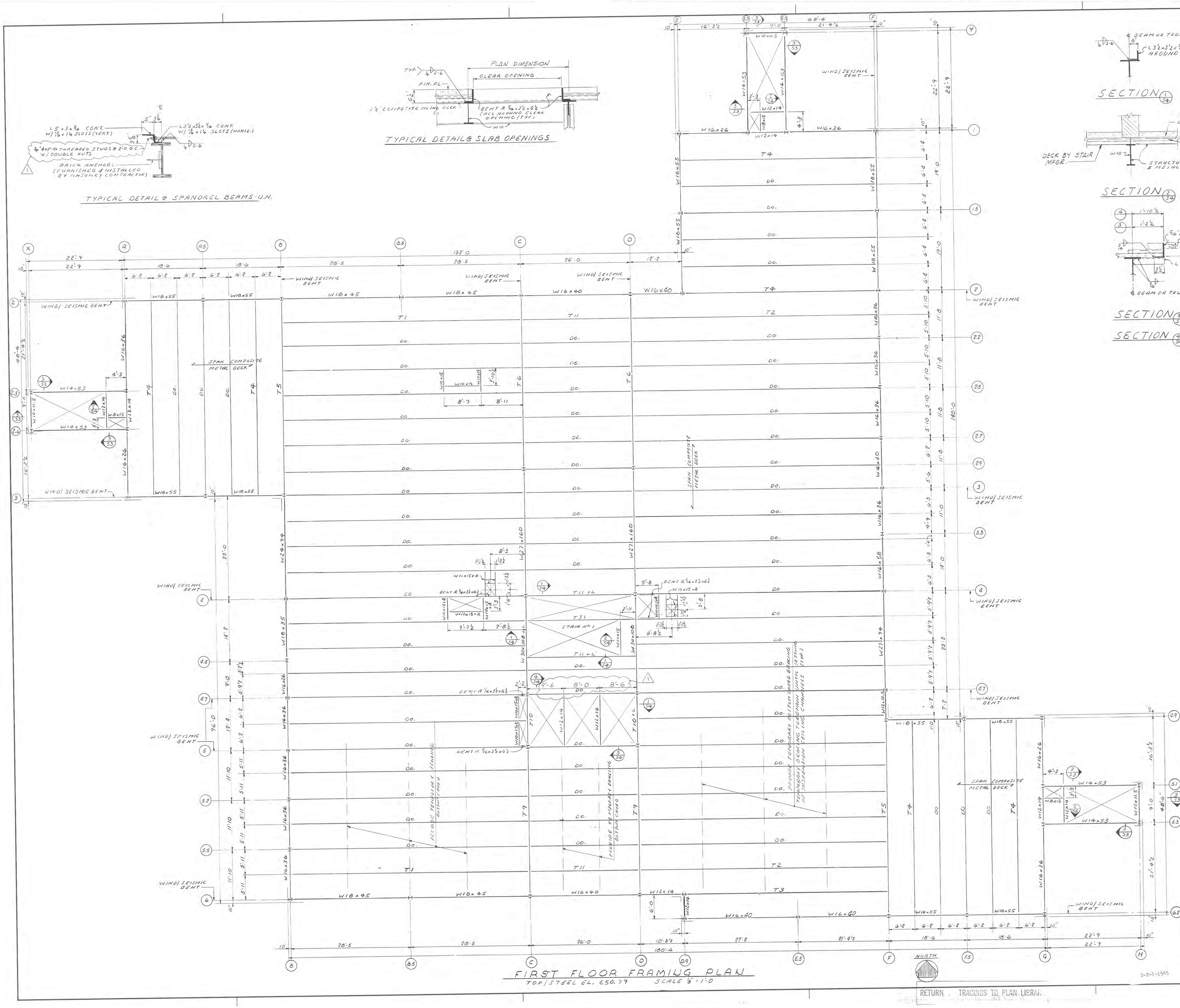
REGISTERED PROFESSIONAL ENGINEER — E. LAWRENCE BELLANTE — COMMONWEALTH OF PENNSYLVANIA

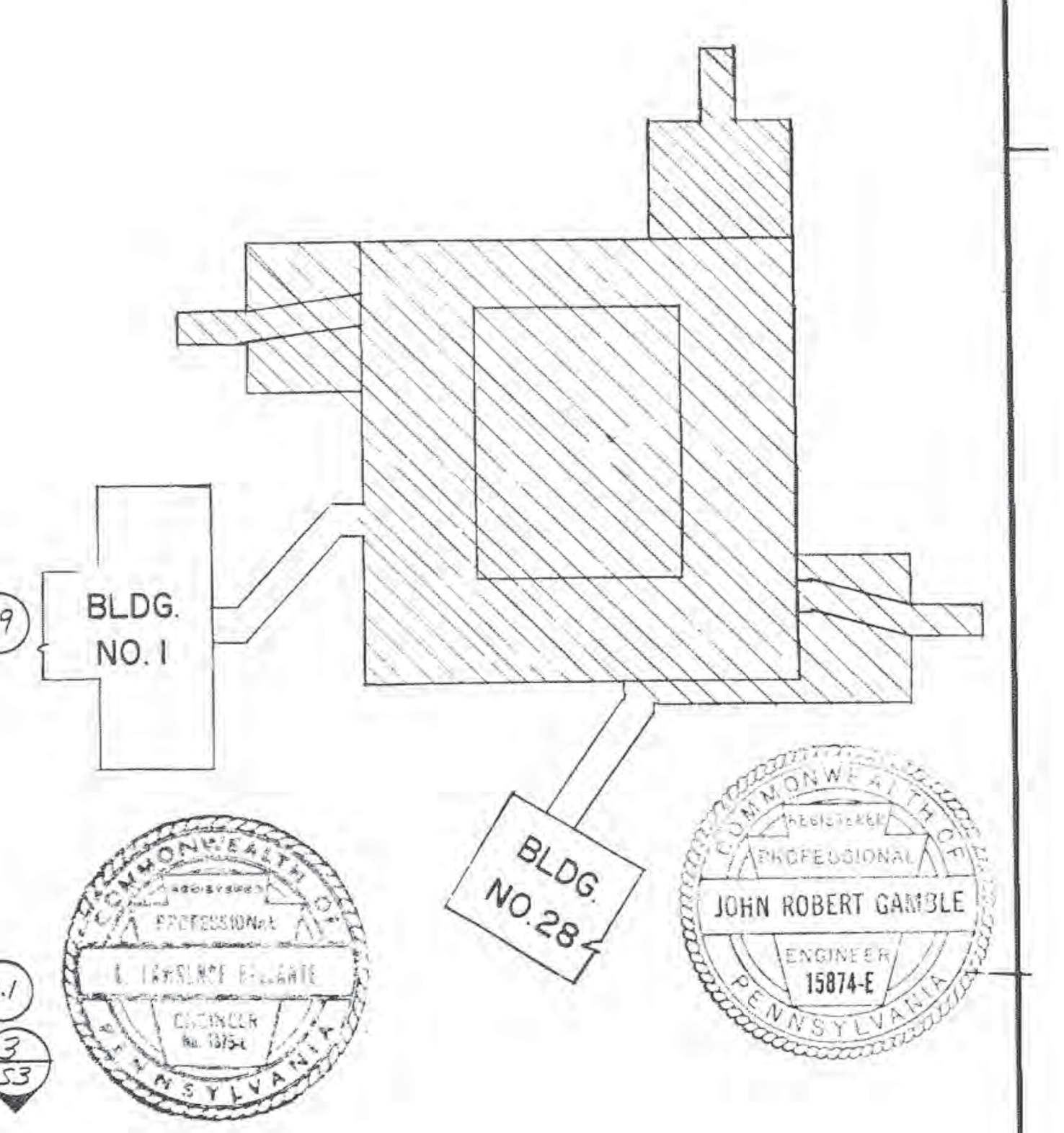
2-2-1-1552

GROUND FLOOR FRAMING PLAN	
BUILDING NO. 31	
NEW 204 BED HOSPITAL BUILDING	
VETERANS ADMINISTRATION WHITE RIVER JUNCTION, VERMONT	
Drawn TE, CS / Checked RG	Proj. Mgr. SB / Date OCT 21 '71
REVISIONS: No / Date / Description	
BELLANTE CLAUSS MILLER & NOLAN — ARCHITECTS ENGINEERS PLANNERS — 130 NORTH WASHINGTON AVE. SCRANTON, PA.	DRAWING NUMBER 31—S3
Project Director	Sheet 3 of 13
	Proj. No. 44-5053

RETURN TRACINGS TO PLAN LIBRARY

FILE FOLDER NO. 21





FIRST FLOOR FRAMING PLAN
BUILDING NO. 31

NEW 204 BED HOSPITAL BUILDING

VETERANS ADMINISTRATION
WHITE RIVER JUNCTION, VERMONT

Drawn SS/TE Proj. Mgr. SB
Checked GS Date 3-12-71

REVISIONS		
No	Date	Description
1	9-1974	AS BUILT

BELLANTE CLAUSS MILLER & NOLAN
ARCHITECTS ENGINEERS PLANNERS
130 NORTH WASHINGTON AVE. SCRANTON, PA.

Project Director

DRAWING NUMBER 31-S4
Sheet 4 of 9
Proj. No. 44-5063

FILE FOLDER NO. 2

SECOND FLOOR & PARTIAL ROOF PLAN

BUILDING NO. 31

NEW 204 BED HOSPITAL BUILDING

VETERANS ADMINISTRATION

WHITE RIVER JUNCTION, VERMONT

Drawn	Proj. Mgr. S B	REVISIONS
Checked	Date OCT 27, '71	No · Date · Description: 1 · 9-10-74 · AS BUILT

BELLANTE CLAUSS MILLER & NOLAN

ARCHITECTS ENGINEERS PLANNERS

130 NORTH WASHINGTON AVE. SCRANTON, PA.

Project Director

DRAWING NUMBER 31-S5

Sheet 5 of 13

Proj. No. 44-5053

MAIN ROOF FRAMING PLAN

BUILDING NO. 31

NEW 204 BED HOSPITAL BUILDING

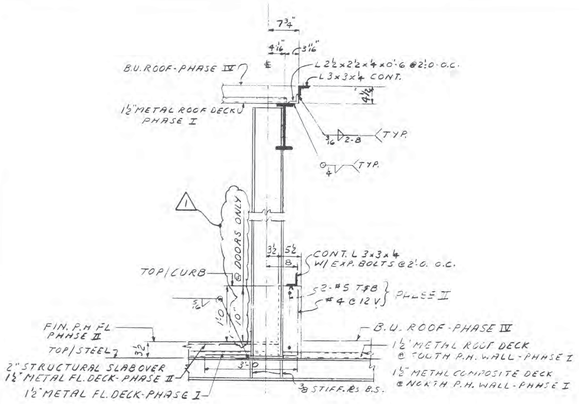
VETERANS ADMINISTRATION
WHITE RIVER JUNCTION, VERMONT

Drawn TE	Proj. Mgr. S.B
Checked JG	Date OCT 27, '71

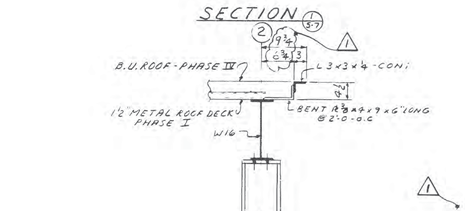
REVISIONS		
No	Date	Description
1	9-10-74	AS BUILT

BELLANTE CLAUSS MILLER & NOLAN
ARCHITECTS ENGINEERS PLANNERS
130 NORTH WASHINGTON AVE. SCRANTON, PA.

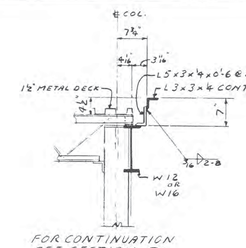
DRAWING NUMBER 31-S6
Sheet 6 of 8
Proj. No. 44-5053C



SECTION (2/S7)



SECTION (3/S7)



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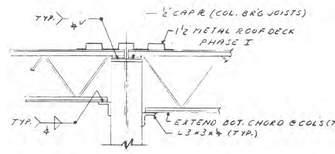
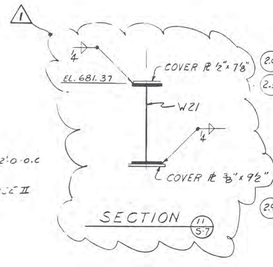


TYPICAL DETAIL - JOIST TO COLUMN



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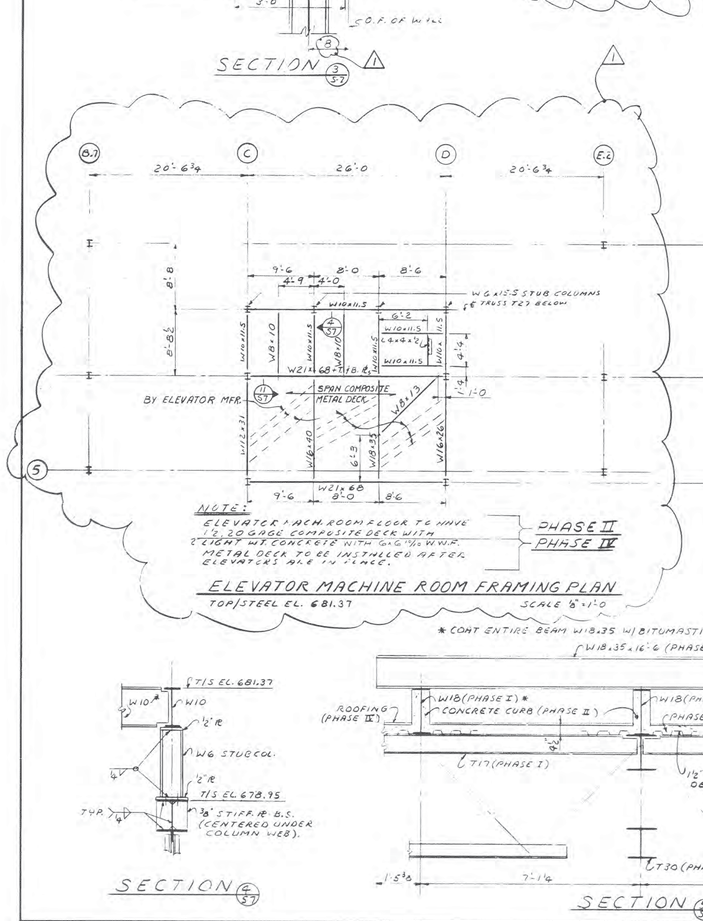


NOTE:
ELEVATOR MACH. ROOM FLOOR TO HAVE 1½ 20 GAGE COMPOSITE DECK WITH 2" LIGHT WT. CONCRETE WITH 6x6-1.4/1.4 W.W.F. METAL DECK TO BE INSTALLED AFTER ELEVATOR HAS BEEN ERECTED.

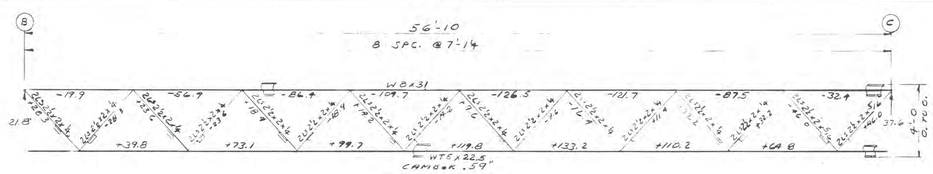
PHASE II
PHASE IV

ELEVATOR MACHINE ROOM FRAMING PLAN
TOP/STEEL EL. 681.37 SCALE ⅛"=1'-0

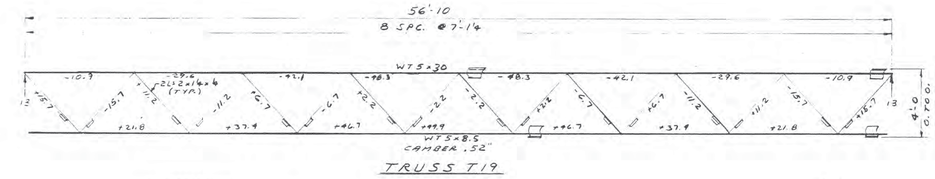
PENTHOUSE ROOF FRAMING PLAN
TOP/STEEL EL 693.20 UNLESS SHOWN THUS (22') ON PLAN.
SCALE ⅛"=1'-0

NORTH

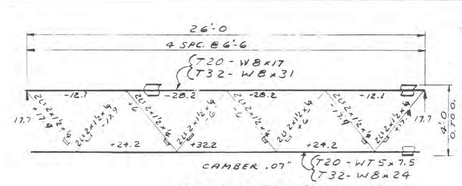
NOTE:
1. ALL STRESSES NOTED ARE SHOWN IN KIPS.
   + TENSION
   − COMPRESSION
2. DIAGONAL MEMBERS TO HAVE LONG LEG VERTICAL.
3. STITCH BOLTS TO BE MIDWAY BETWEEN WORKING POINTS & ARE TO BE THE SAME THICKNESS AS GUSSET R's AND/OR WEB OF WT.



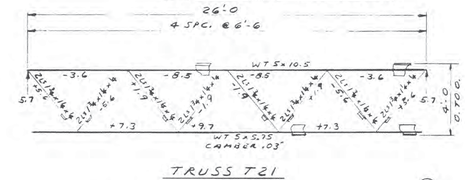
TRUSS T18



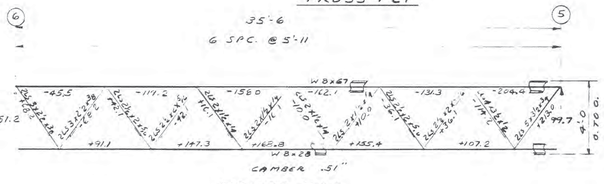
TRUSS T19



TRUSS T20 (AS NOTED)
TRUSS T32 (AS NOTED)



TRUSS T21



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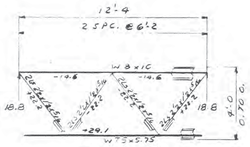

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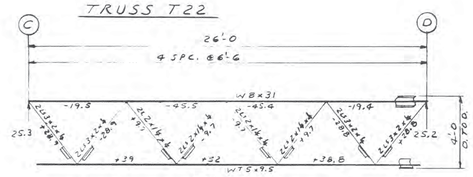
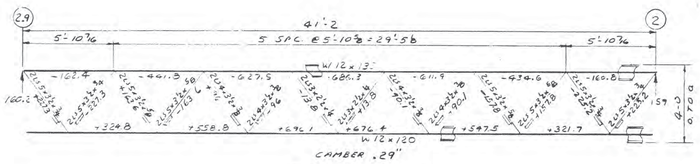
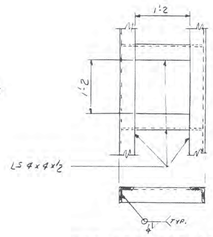


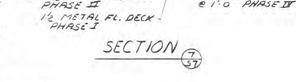
TRUSS T27



TRUSS T30



TYP. ROOF DRAIN FRAME
SEE PLAN FOR LOCATIONS



SECTION (8/S7)

SECTION (9/S7)

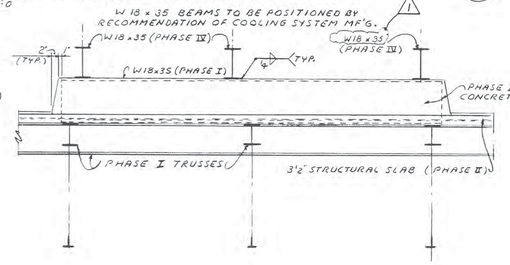
NOTE:
ELEVATOR MACH. ROOM FLOOR TO HAVE 1½ 20 GAGE COMPOSITE DECK WITH 2" LIGHT WT. CONCRETE WITH 6x6-1.4/1.4 W.W.F. METAL DECK TO BE INSTALLED AFTER ELEVATOR HAS BEEN ERECTED.

PHASE II
PHASE IV

ELEVATOR MACHINE ROOM FRAMING PLAN
TOP/STEEL EL. 681.37 SCALE ⅛"=1'-0

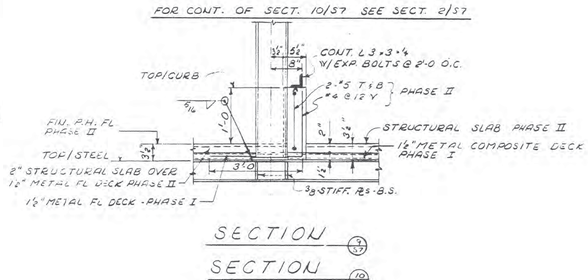
SECTION (4/S7)

SECTION (5/S7)



SECTION (6/S7)

FOR CONT. OF SECT. 9/S7 SEE SECT. 11/S7
FOR CONT. OF SECT. 10/S7 SEE SECT. 2/S7



SECTION (7/S7)

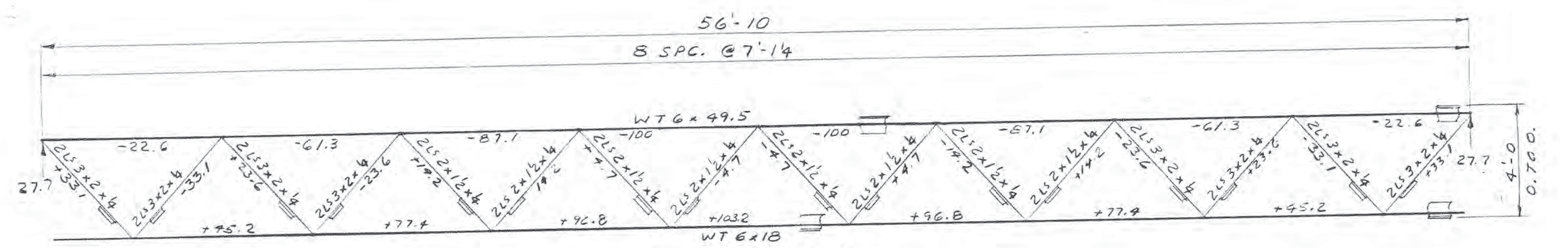
SECTION (10/S7)
(SIMILAR TO SECT. 9/S7)

2-2-1-1556

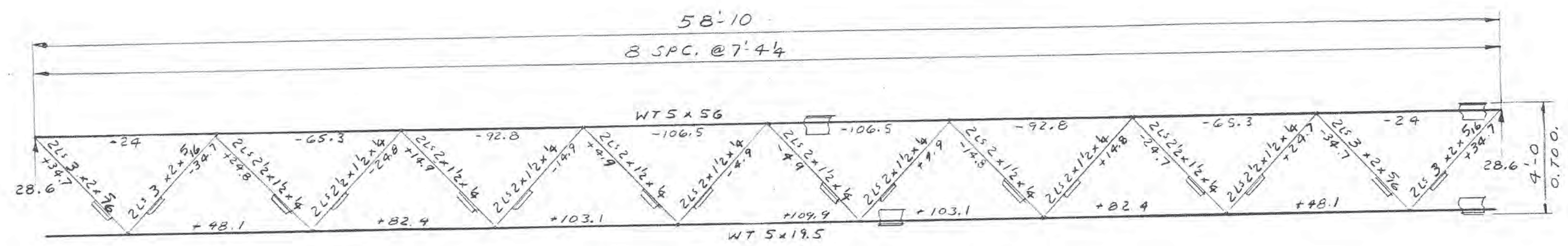
PENTHOUSE FRAMING PLAN & DETAILS		
BUILDING NO. 31		
NEW 204 BED HOSPITAL BUILDING		
VETERANS ADMINISTRATION WHITE RIVER JUNCTION, VERMONT		
Drawn TE / Checked JC	Proj. Mgr. S B / Date OCT 27 71	REVISIONS: No. 1 Date 5-10-74 Description AS BUILT
BELLANTE CLAUSS MILLER & NOLAN ARCHITECTS ENGINEERS PLANNERS 130 NORTH WASHINGTON AVE. SCRANTON, PA.		DRAWING NUMBER 31-S7
Project Director		Sheet 7 of 15
		Proj. No. 44-5053

RETURN TRACINGS TO PLAN LIBRARY

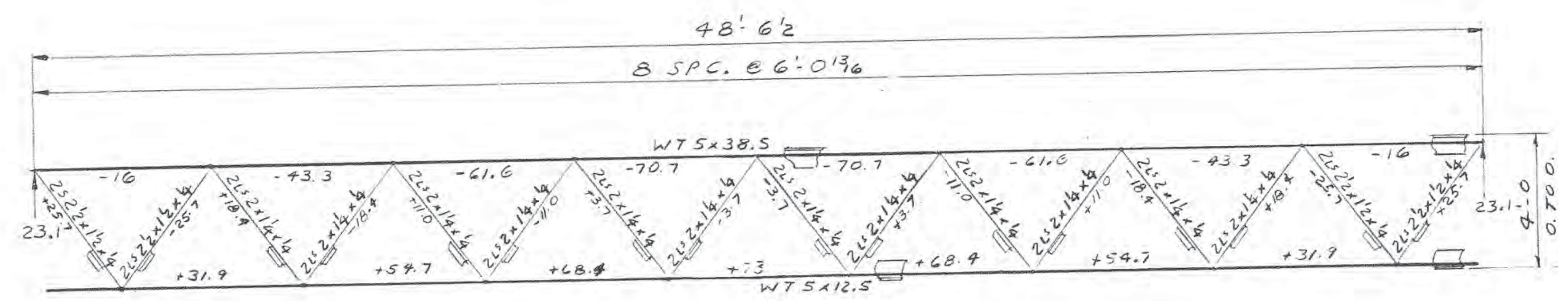
FILE FOLDER NO. 2.1



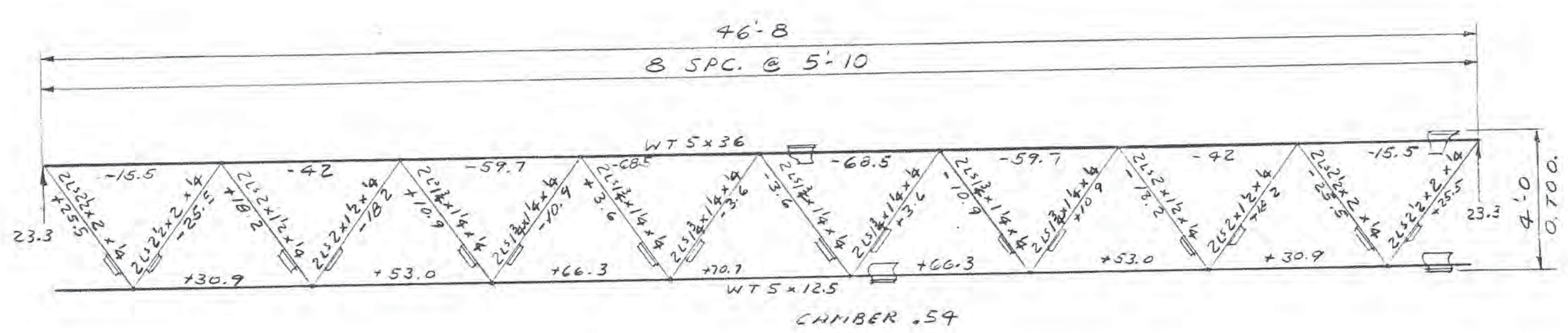
TRUSS T1



TRUSS T2



TRUSS T3



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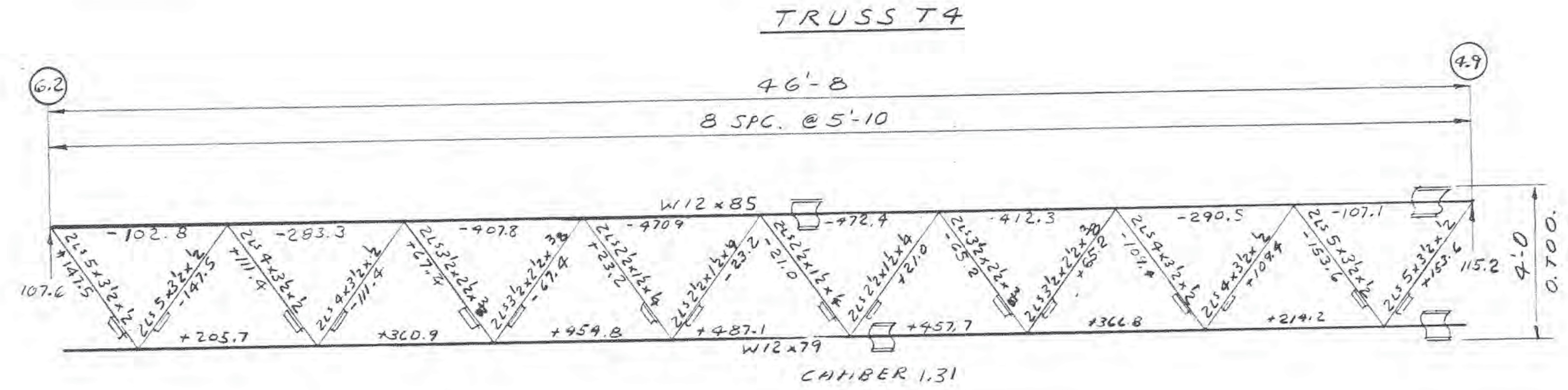

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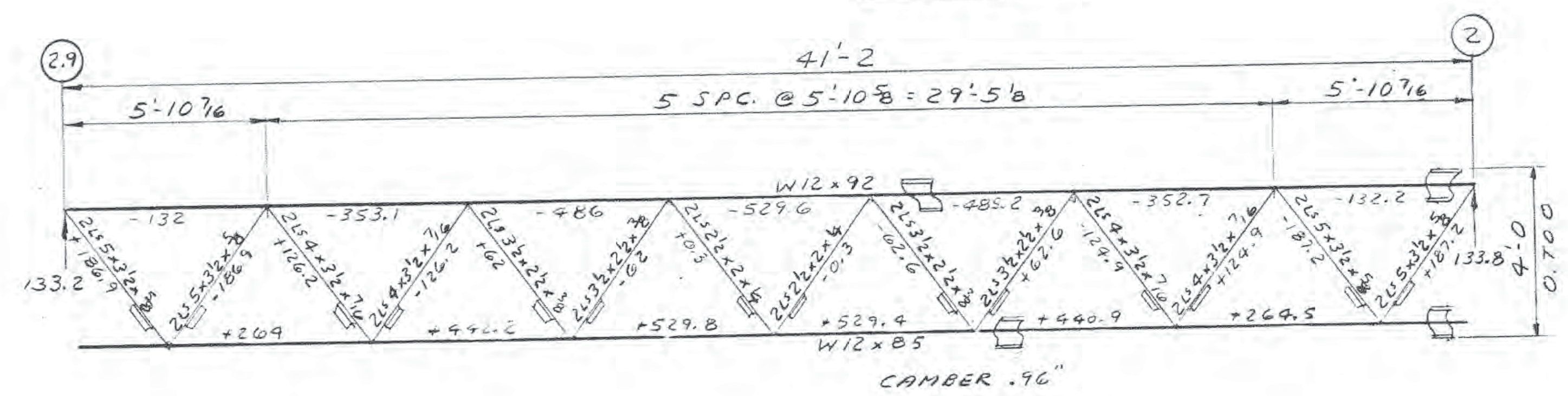

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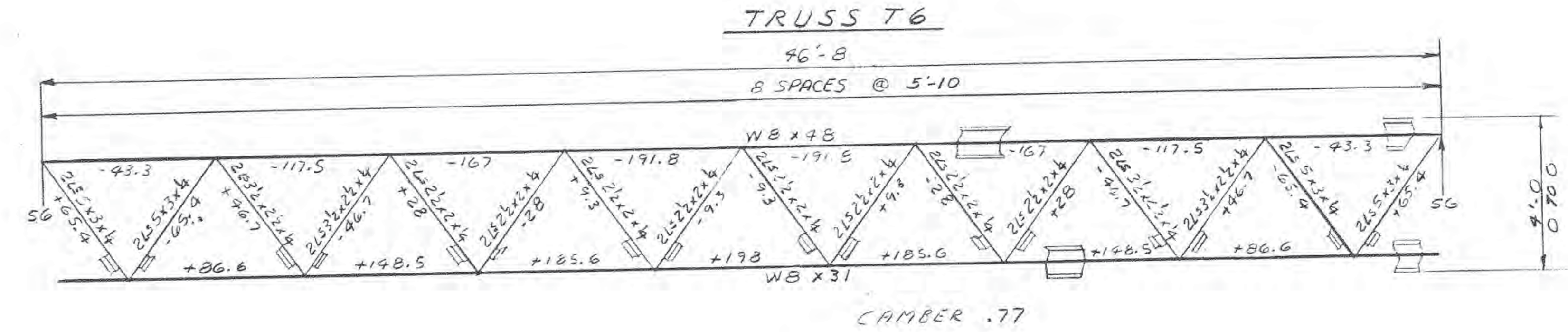
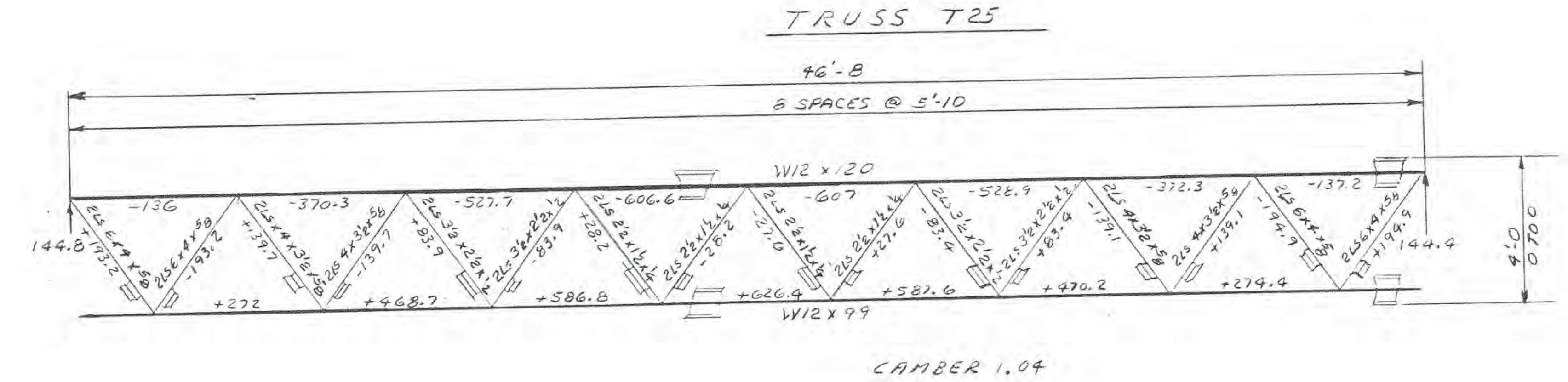


TRUSS T25



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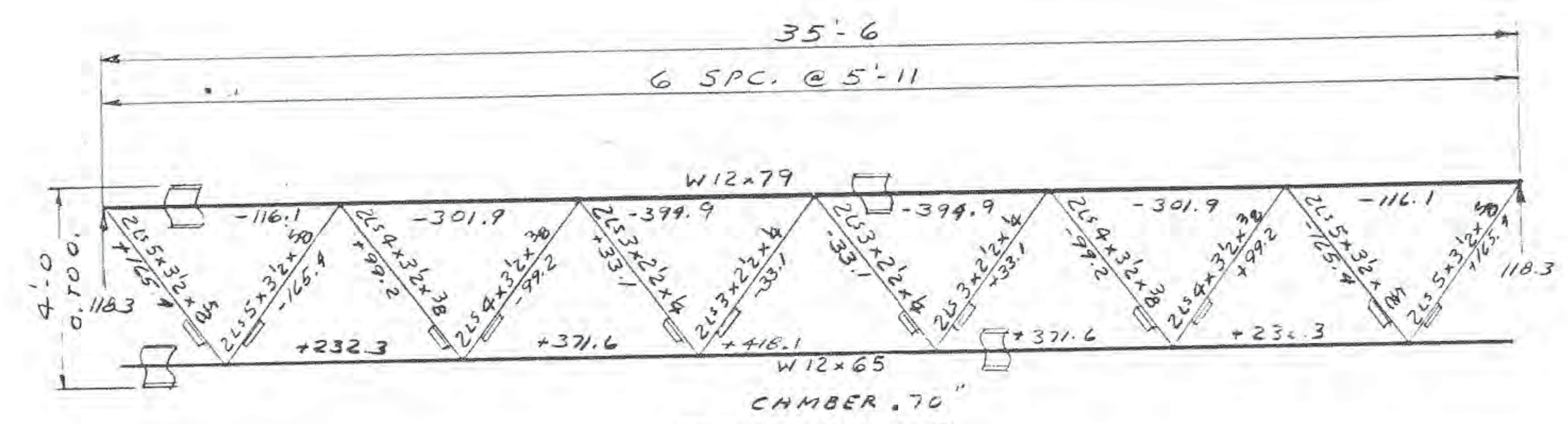
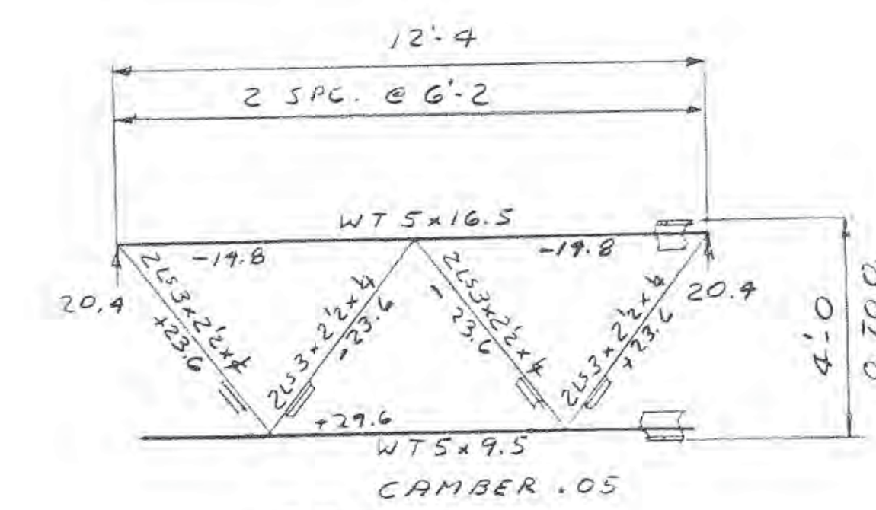
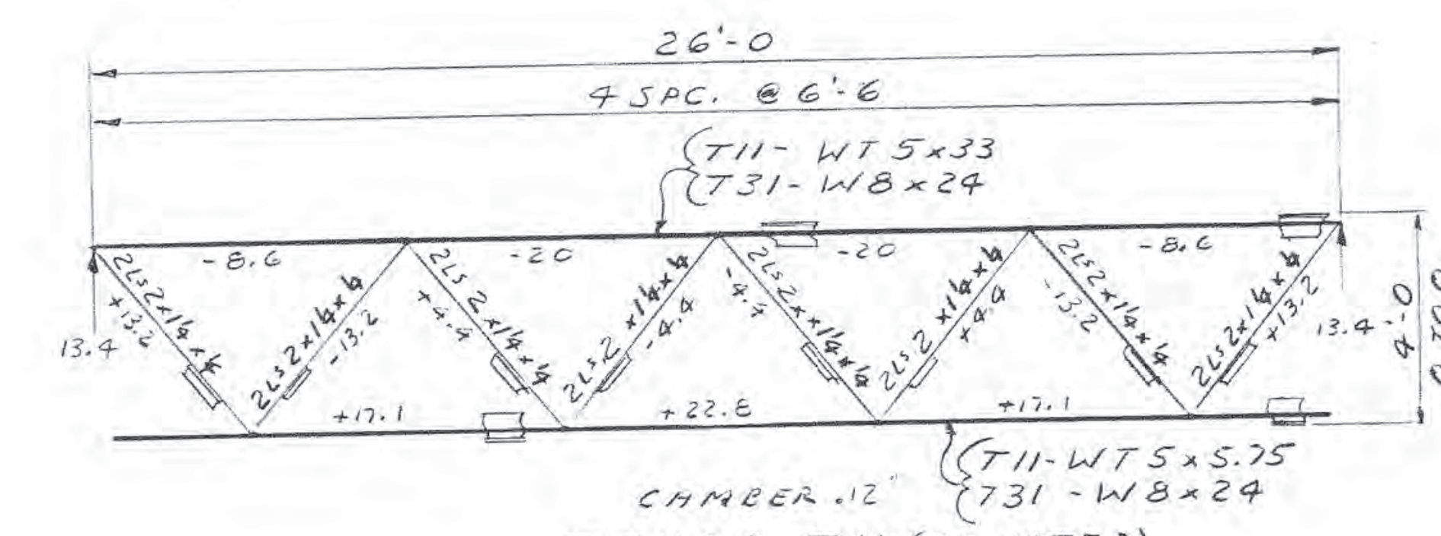


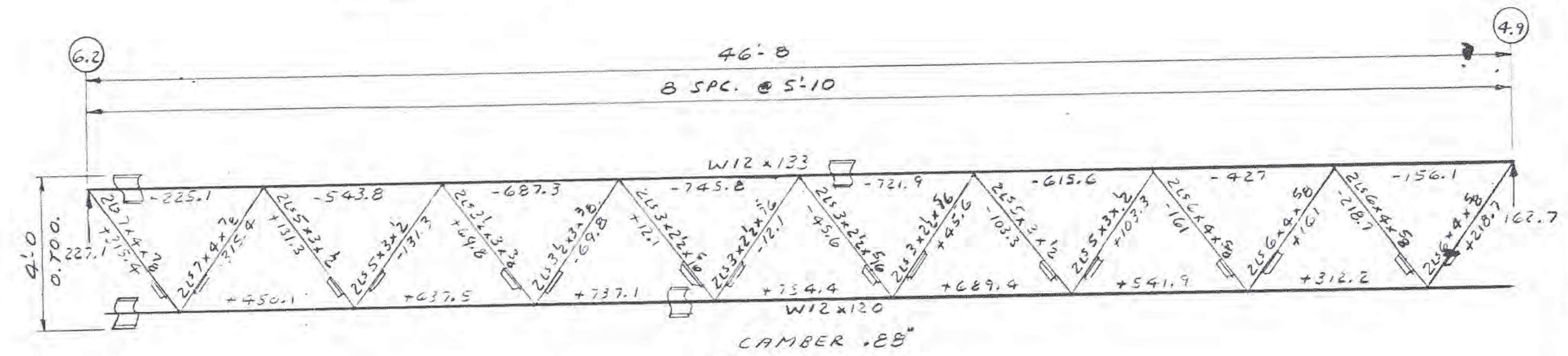
TRUSS T9



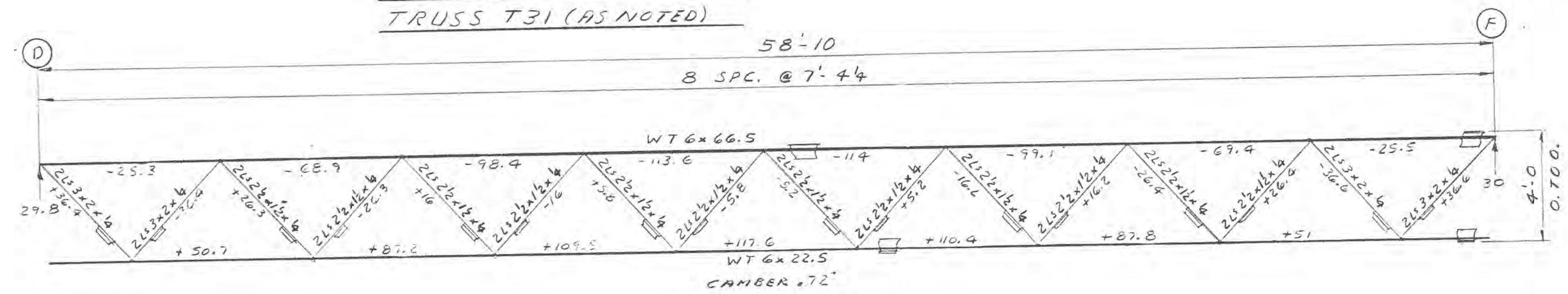
TRUSS T10



TRUSS T11 (AS NOTED)
TRUSS T31 (AS NOTED)

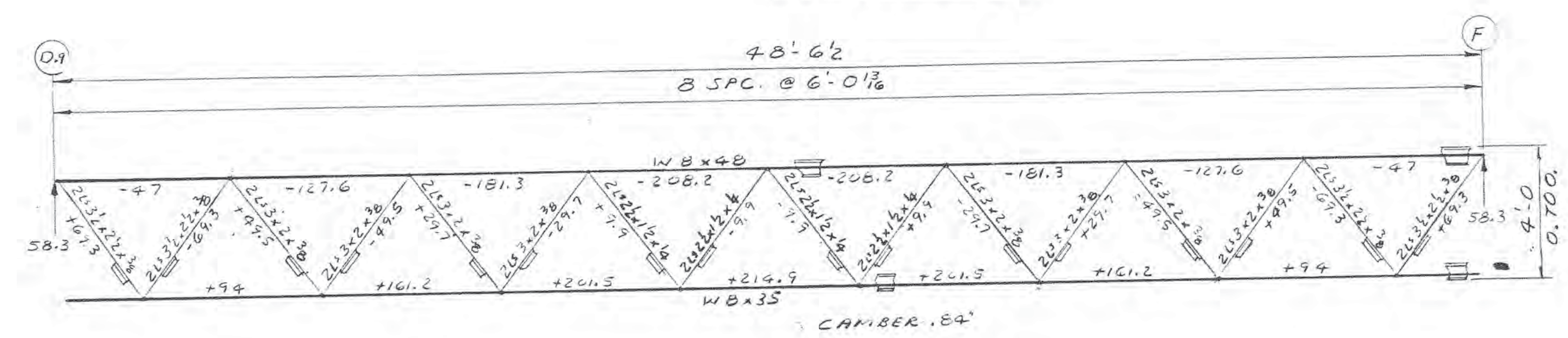


TRUSS T28

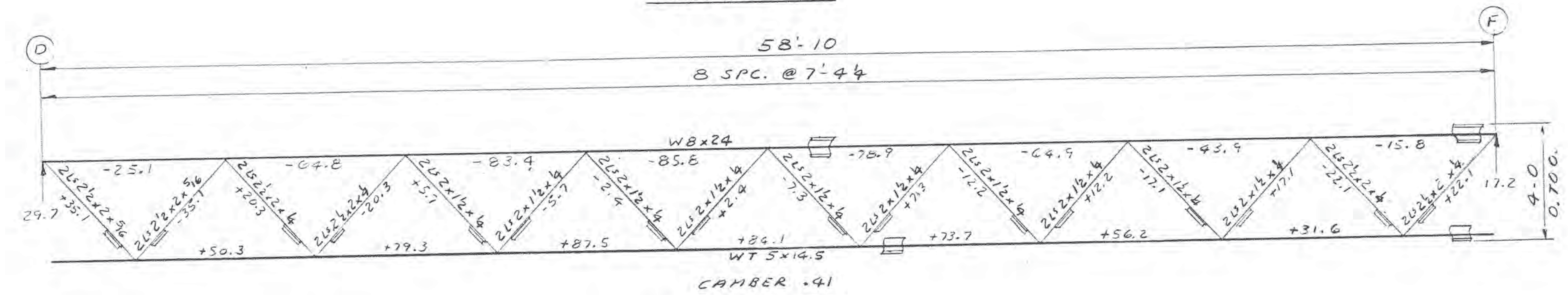


TRUSS T12

NOTE:
1. ALL STRESSES NOTED ARE SHOWN IN KIPS.
+ TENSION
− COMPRESSION
2. DIAGONAL MEMBERS TO HAVE LONG LEG VERTICAL.
3. STITCH PLS TO BE MIDWAY BETWEEN WORKING POINTS, & ARE TO BE THE SAME THICKNESS AS GUSSET PLS AND/OR WEB OF WT.



TRUSS T13



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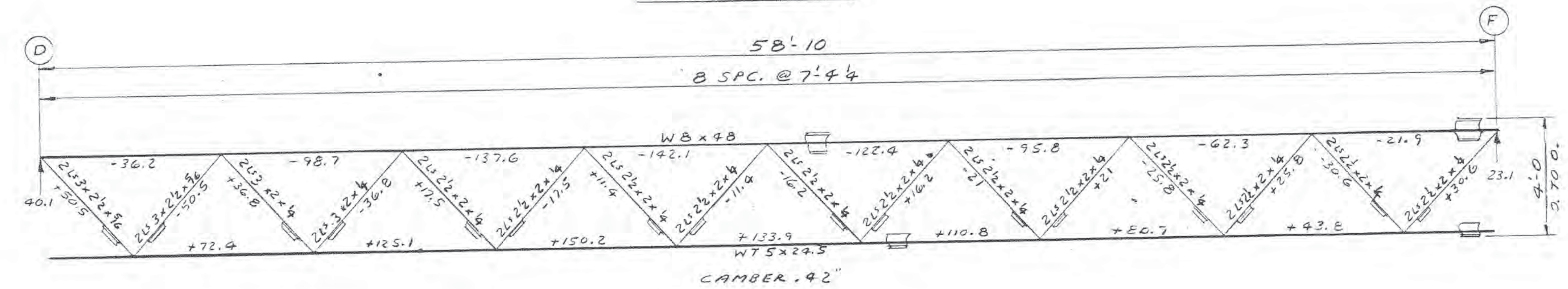
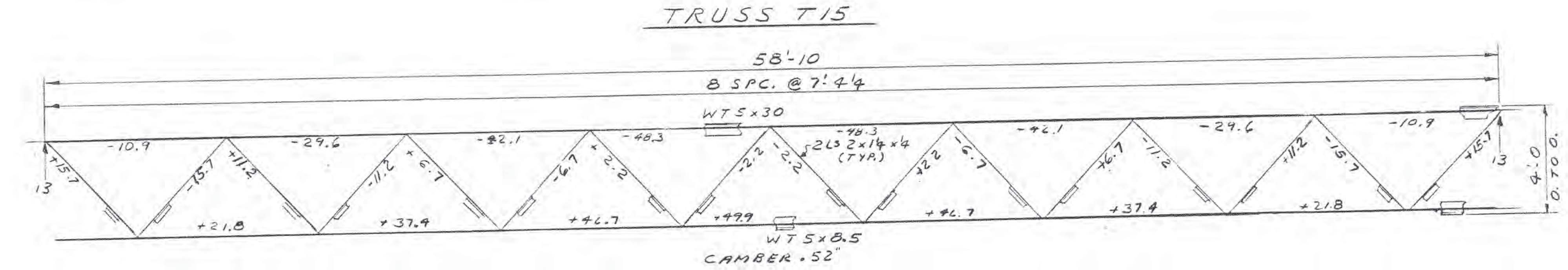
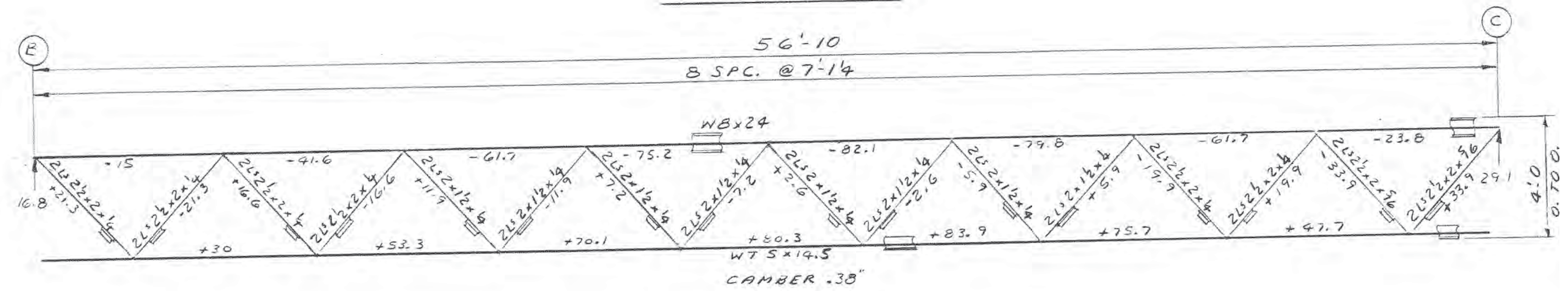


TRUSS T15

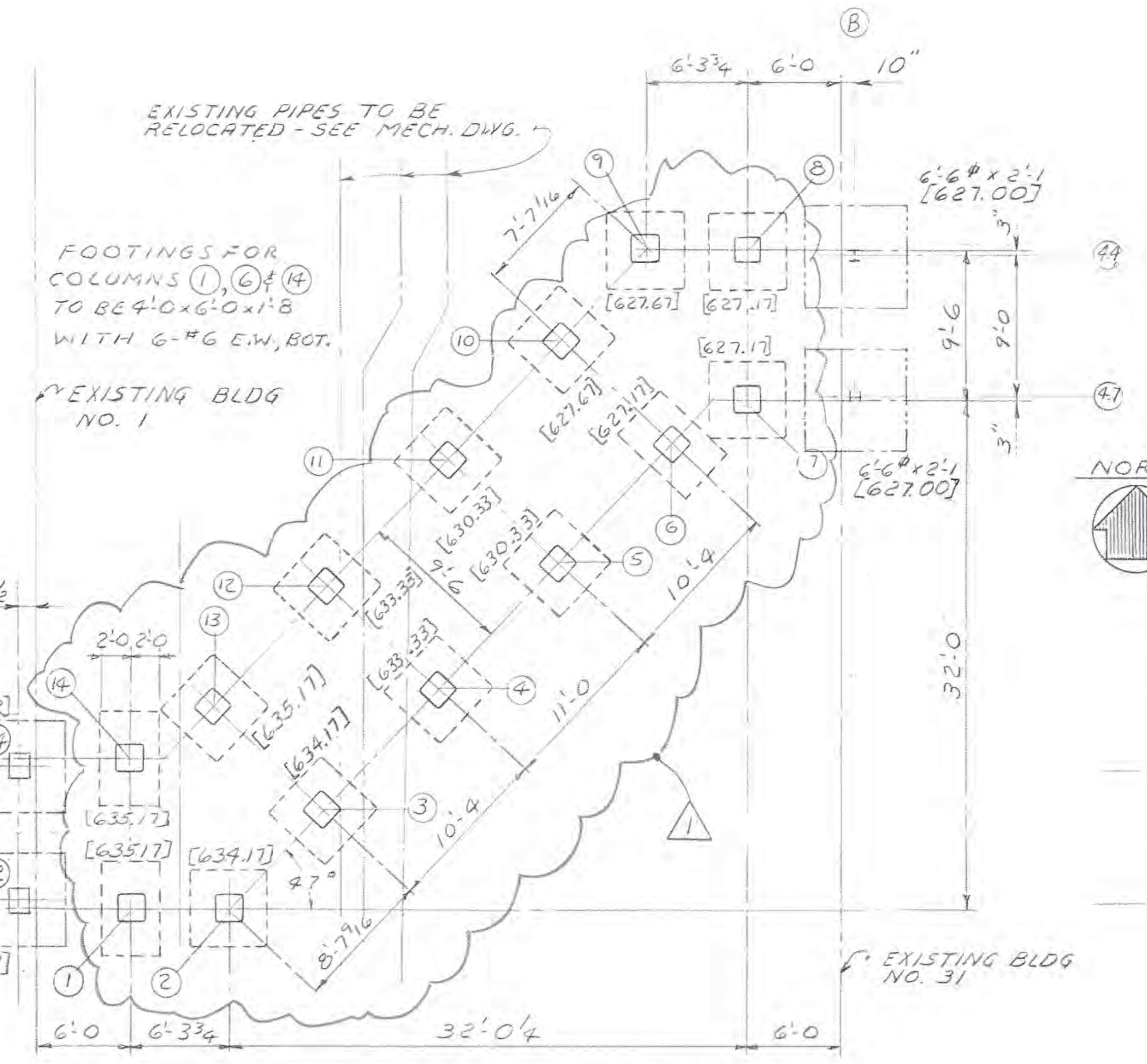


TRUSS T16



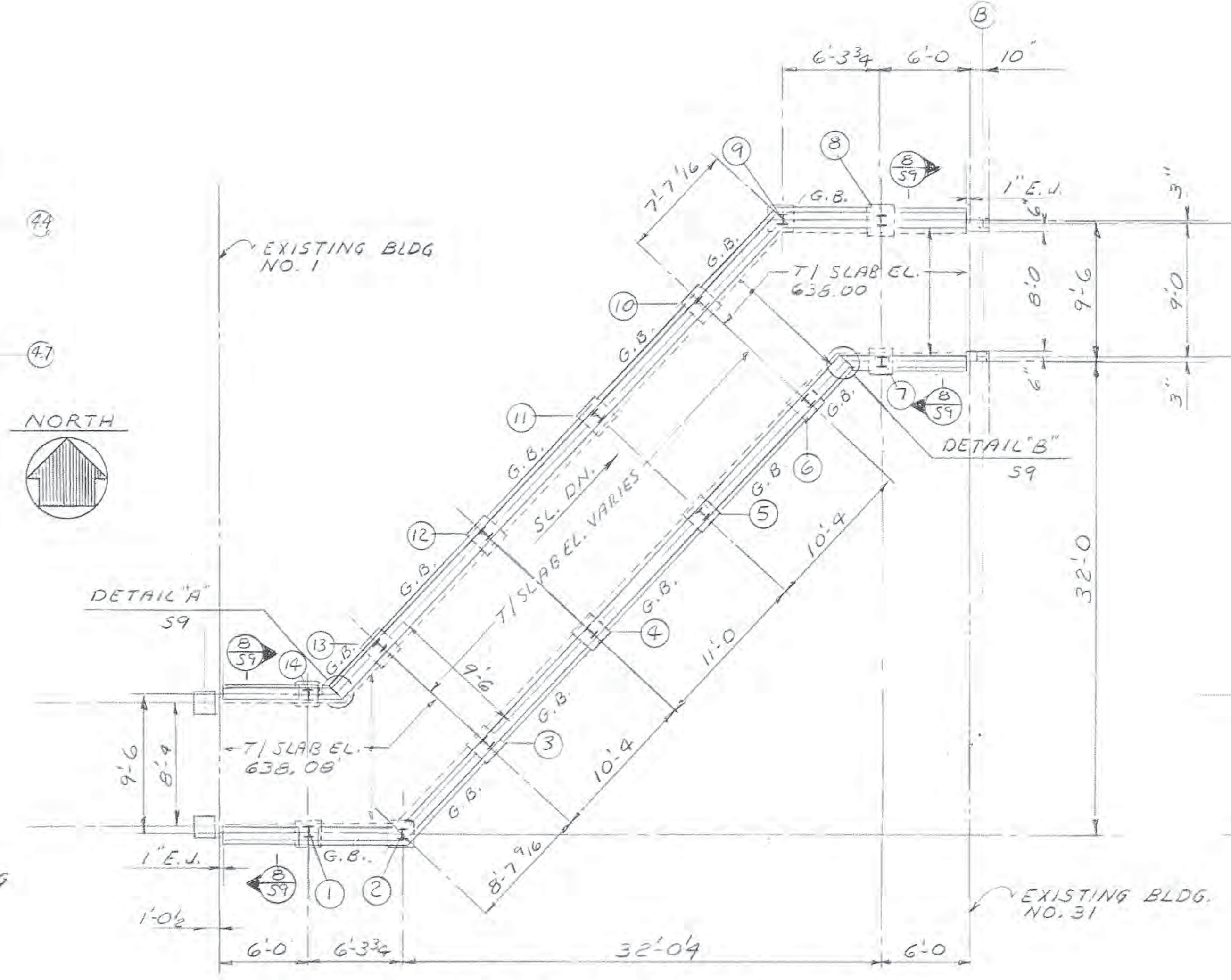
TRUSS T17

TRUSS DETAILS	
BUILDING NO. 31	
NEW 204 BED HOSPITAL BUILDING	
VETERANS ADMINISTRATION WHITE RIVER JUNCTION, VERMONT	
Drawn TE / Checked KG	Proj. Mgr. DP / Date 2-16-71
REVISIONS: No / Date / Description	
BELLANTE CLAUSS MILLER & NOLAN ARCHITECTS ENGINEERS PLANNERS 130 NORTH WASHINGTON AVE. SCRANTON, PA.	DRAWING NUMBER 31-S8
Project Director	Sheet 8 of 9 / Proj. No. 44-50535



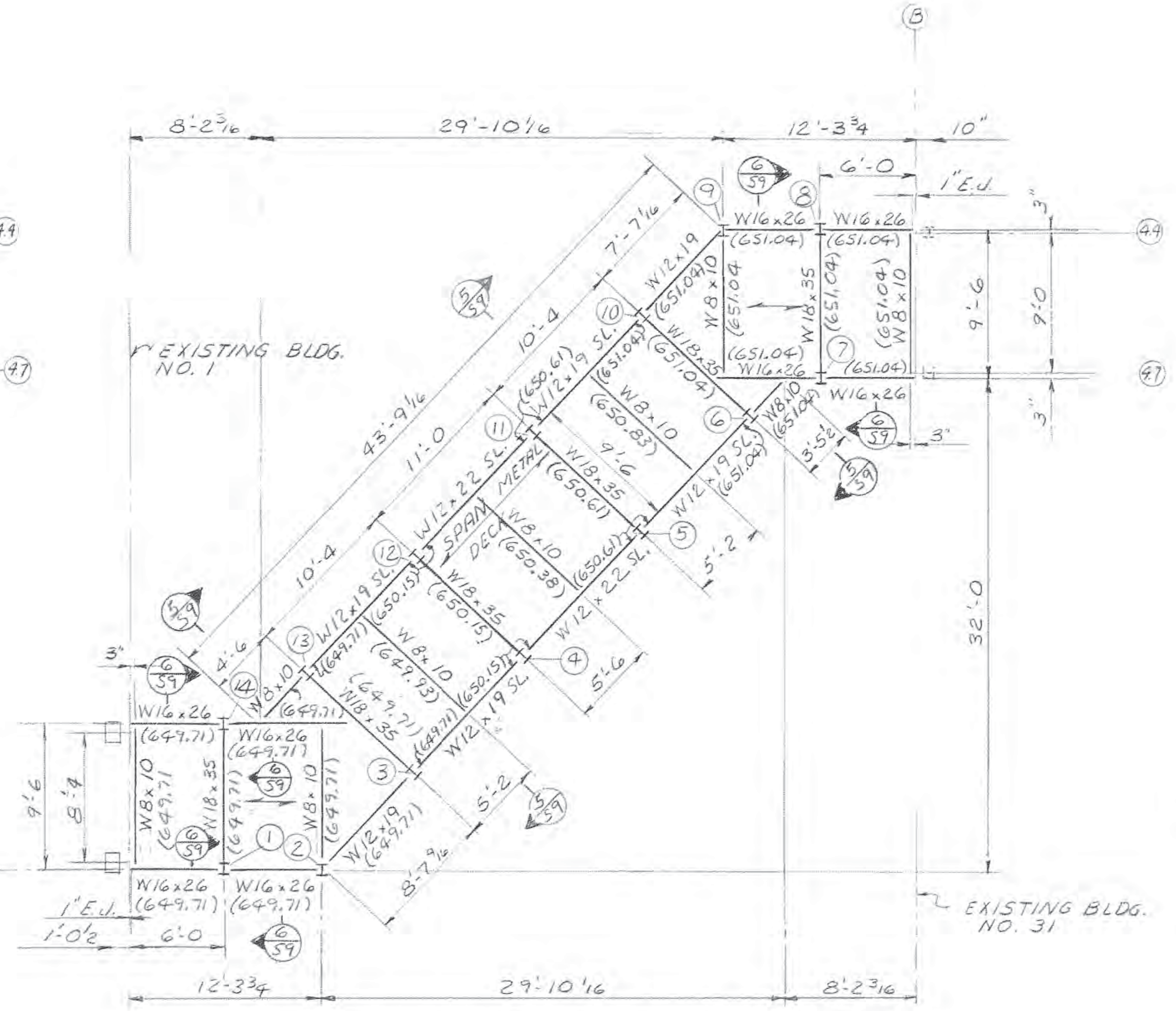
FOUNDATION PLAN

SCALE: ⅛" = 1'-0
TOP/FTG. EL. SHOWN THUS [ ] ON PLAN.
COLUMN FOOTINGS (UNLESS NOTED) TO BE 5'-0 x 5'-0 x 1'-8 WITH 8-#6 E.W., BOTTOM. SEE GROUND FLOOR FRAMING PLAN FOR GRADE BEAMS.



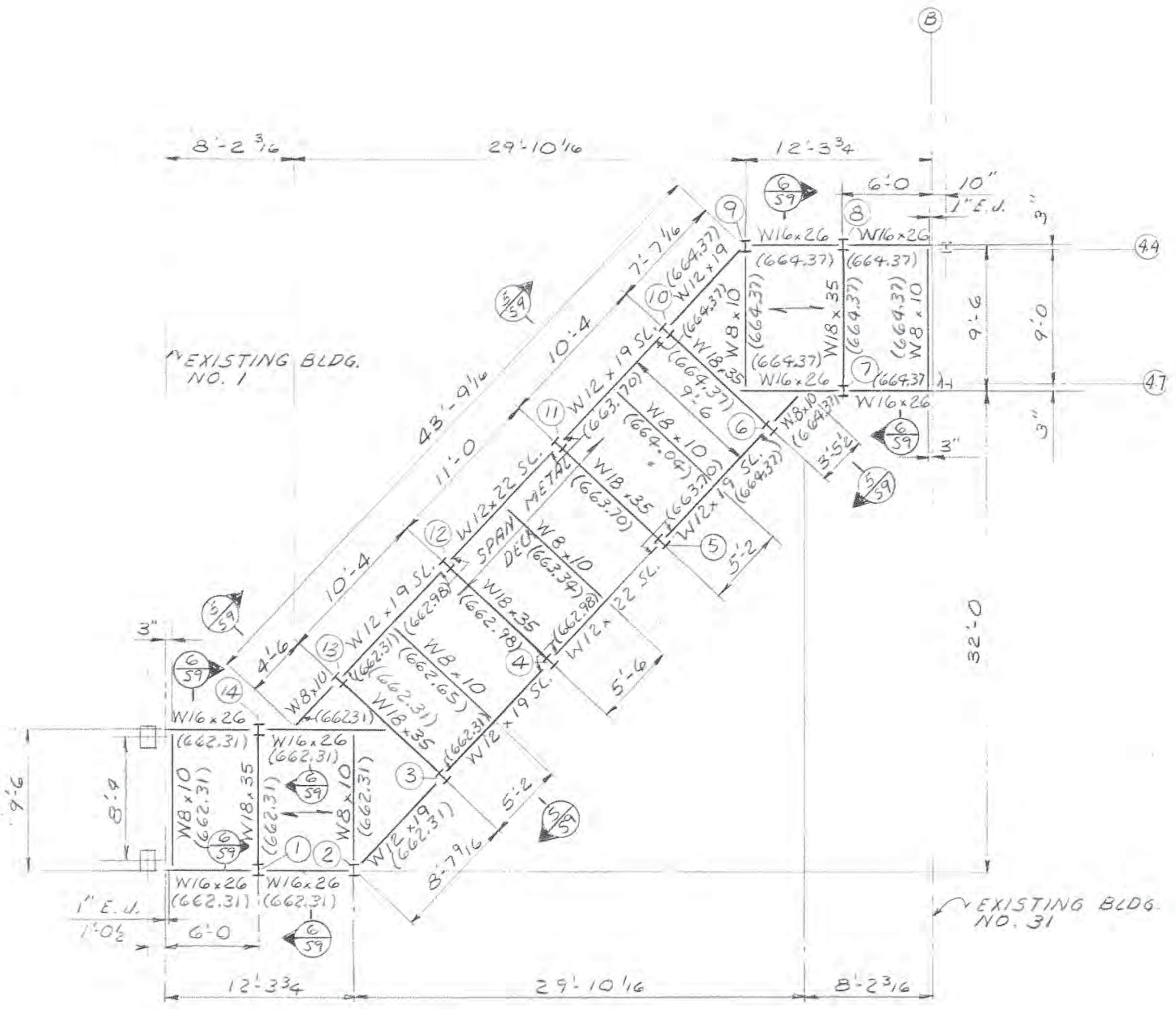
GROUND FLOOR FRAMING PLAN

G.B. = GRADE BEAM
SCALE: ⅛" = 1'-0
SEE DWG. NO. 31-S1 & 31-S3 FOR GENERAL NOTES



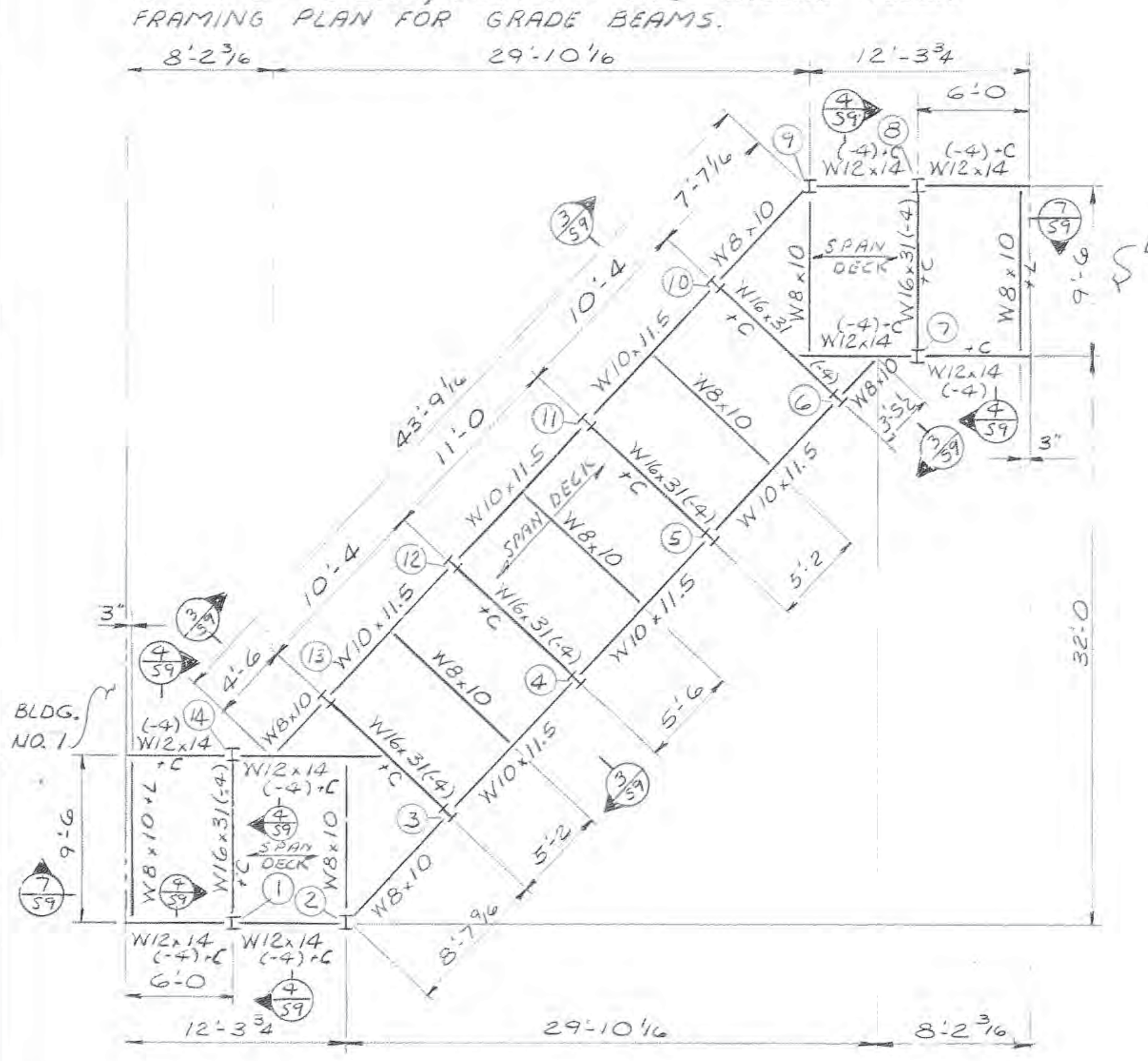
FIRST FLOOR FRAMING PLAN

TOP/STEEL EL. NOTED THUS ( ) ON PLAN.
SL - DENOTES SLOPED BEAM.
SCALE: ⅛" = 1'-0



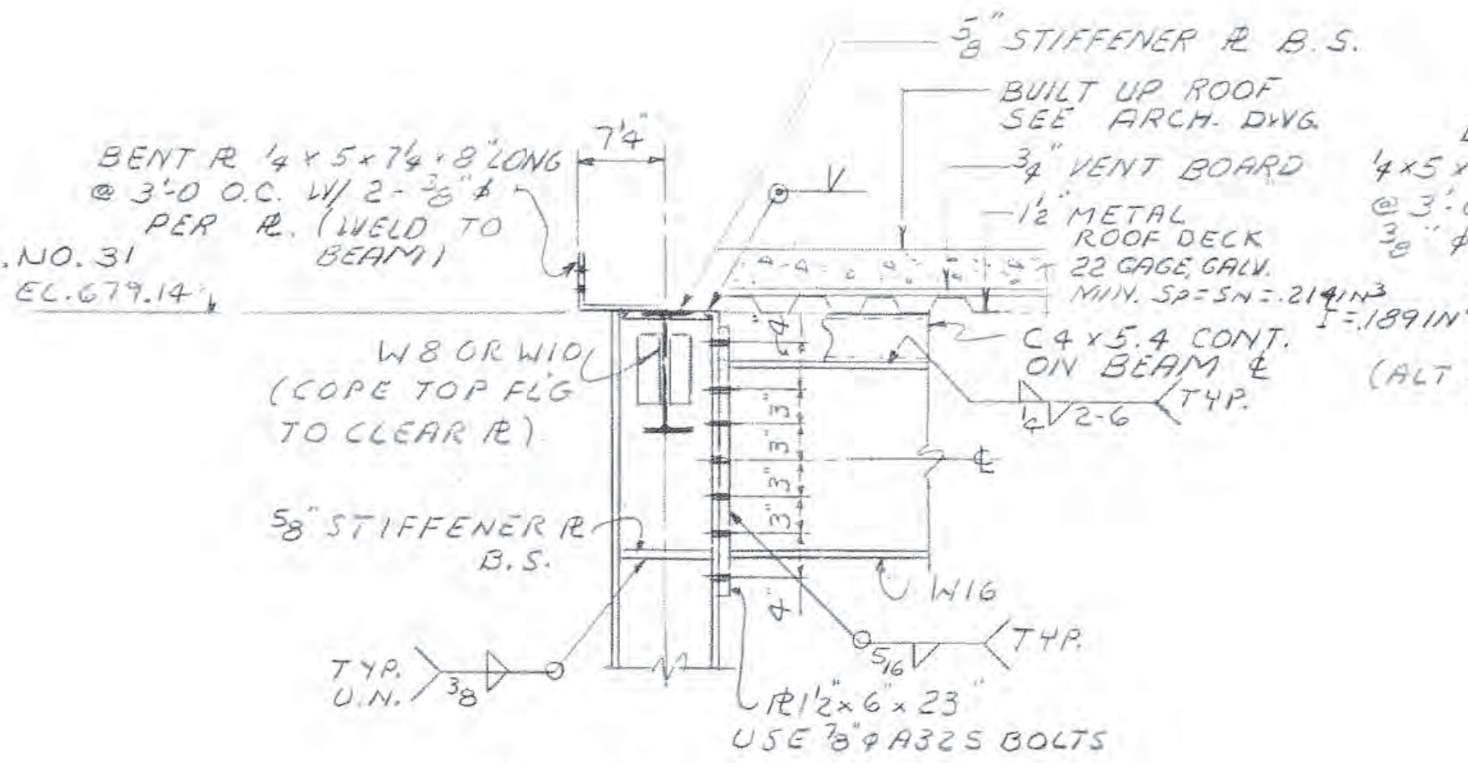
SECOND FLOOR FRAMING PLAN

TOP/STEEL EL NOTED THUS ( ) ON PLAN
SL - DENOTES SLOPED BEAM
SCALE: ⅛" = 1'-0



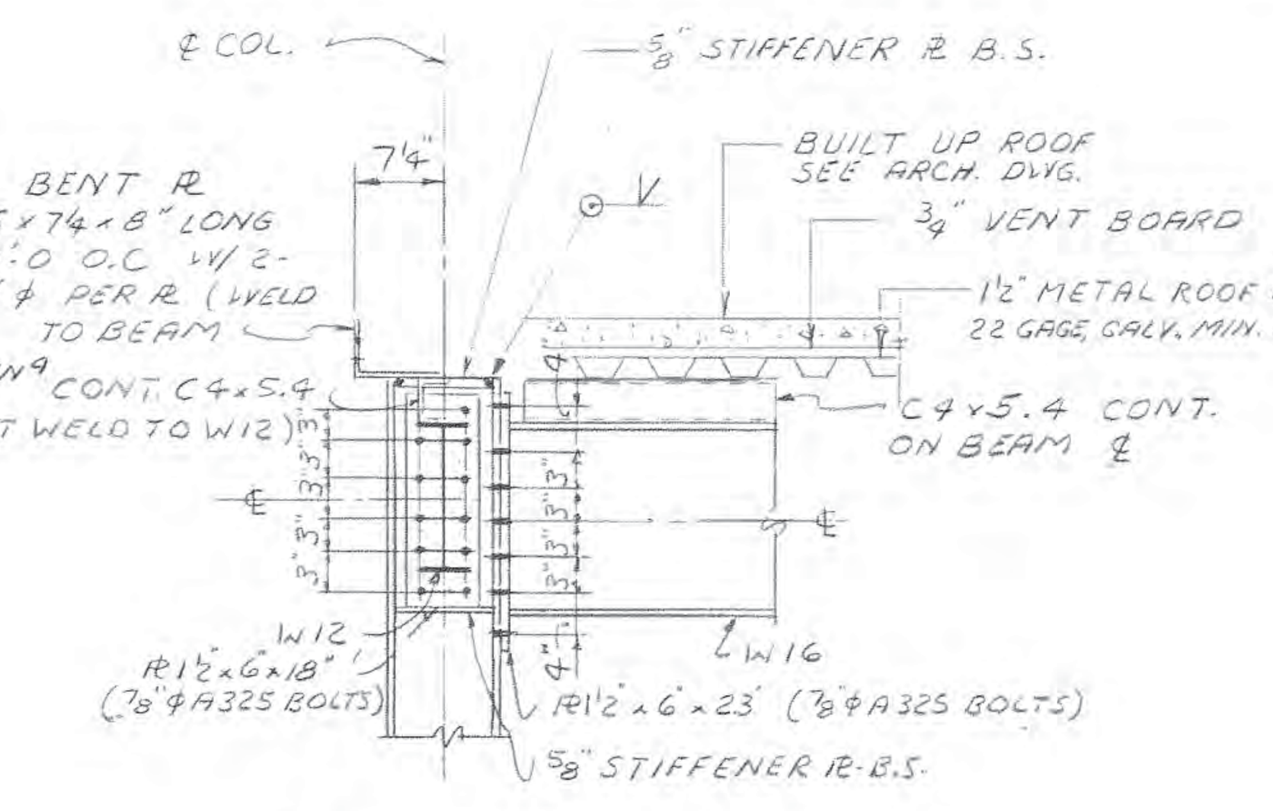
ROOF FRAMING PLAN

TOP/STEEL EL. 679.14 UNLESS NOTED THUS (-4) ON PLAN.
SCALE: ⅛" = 1'-0



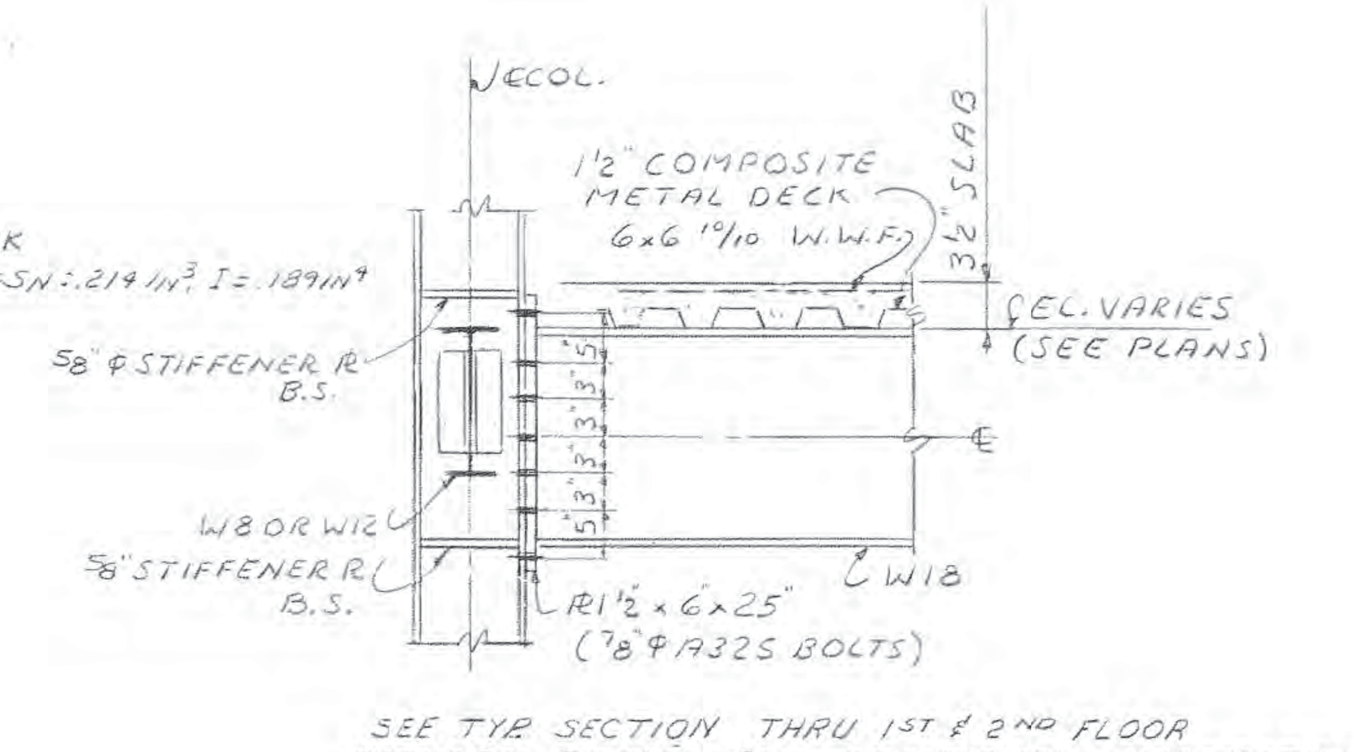
SECTION 3/S9

SCALE: ¾" = 1'-0



SECTION 4/S9

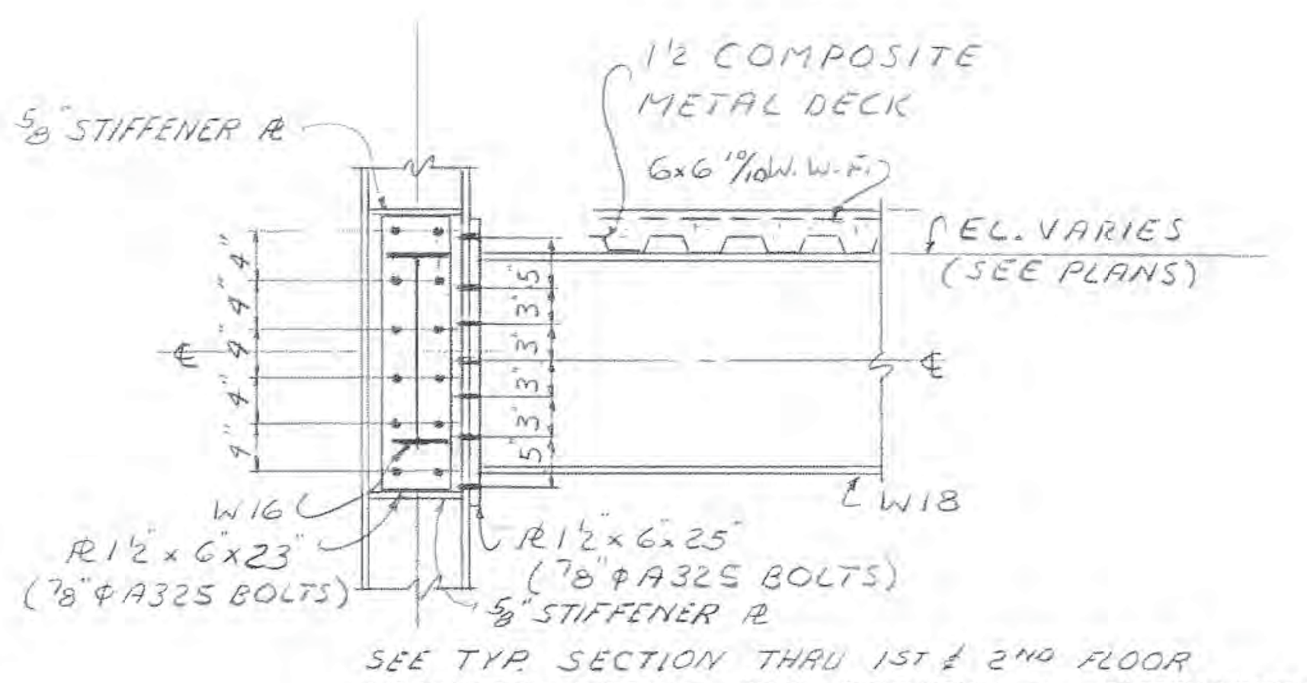
SCALE: ¾" = 1'-0



SEE TYP. SECTION THRU 1ST & 2ND FLOOR SPANDREL BEAMS FOR ADDITIONAL INFORMATION

SECTION 5/S9

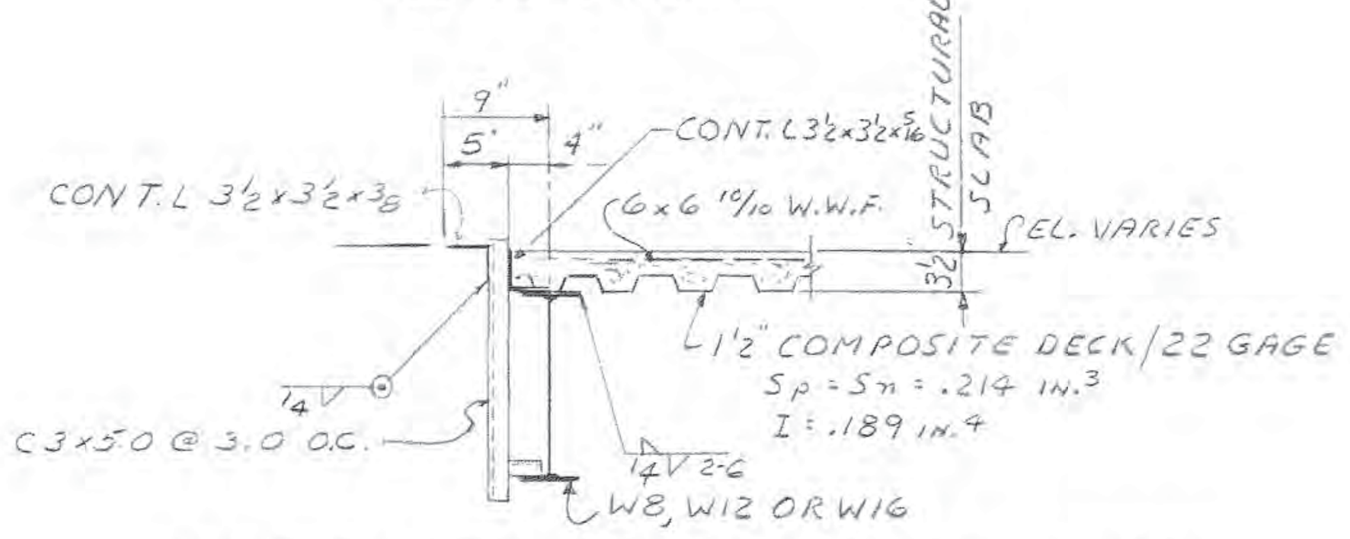
SCALE: ¾" = 1'-0



SEE TYP. SECTION THRU 1ST & 2ND FLOOR SPANDREL BEAMS FOR ADDITIONAL INFORMATION

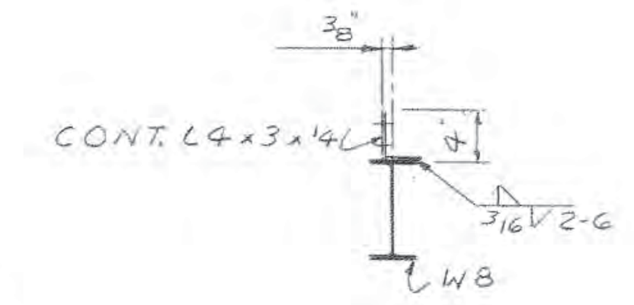
SECTION 6/S9

SCALE: ¾" = 1'-0



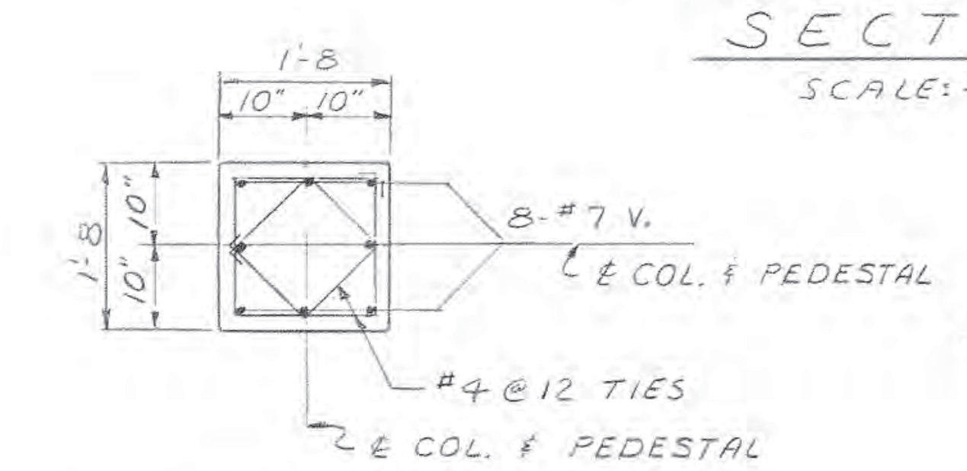
TYP. SECTION THRU 1ST & 2ND FLOOR SPANDREL BEAMS

SCALE: ¾" = 1'-0



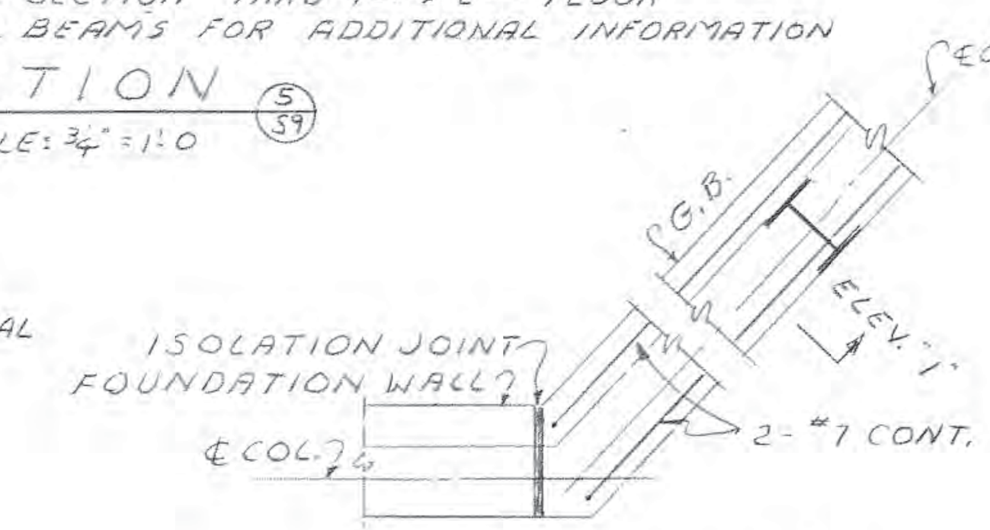
SECTION 7/S9

SCALE: ¾" = 1'-0



TYPICAL PEDESTAL DETAIL

SCALE: ½" = 1'-0

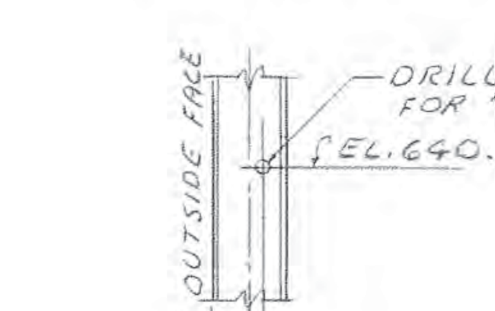


DETAIL "A"

SCALE: ½" = 1'-0

DETAIL "B"

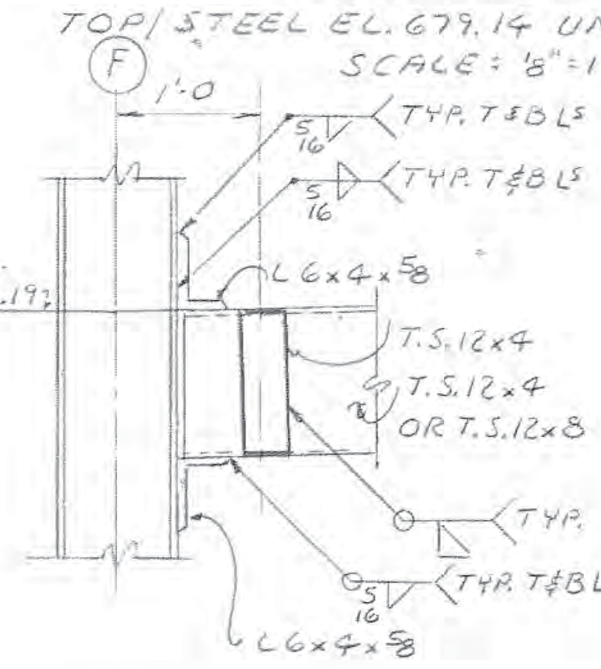
OPPOSITE HAND



ELEVATION "1"

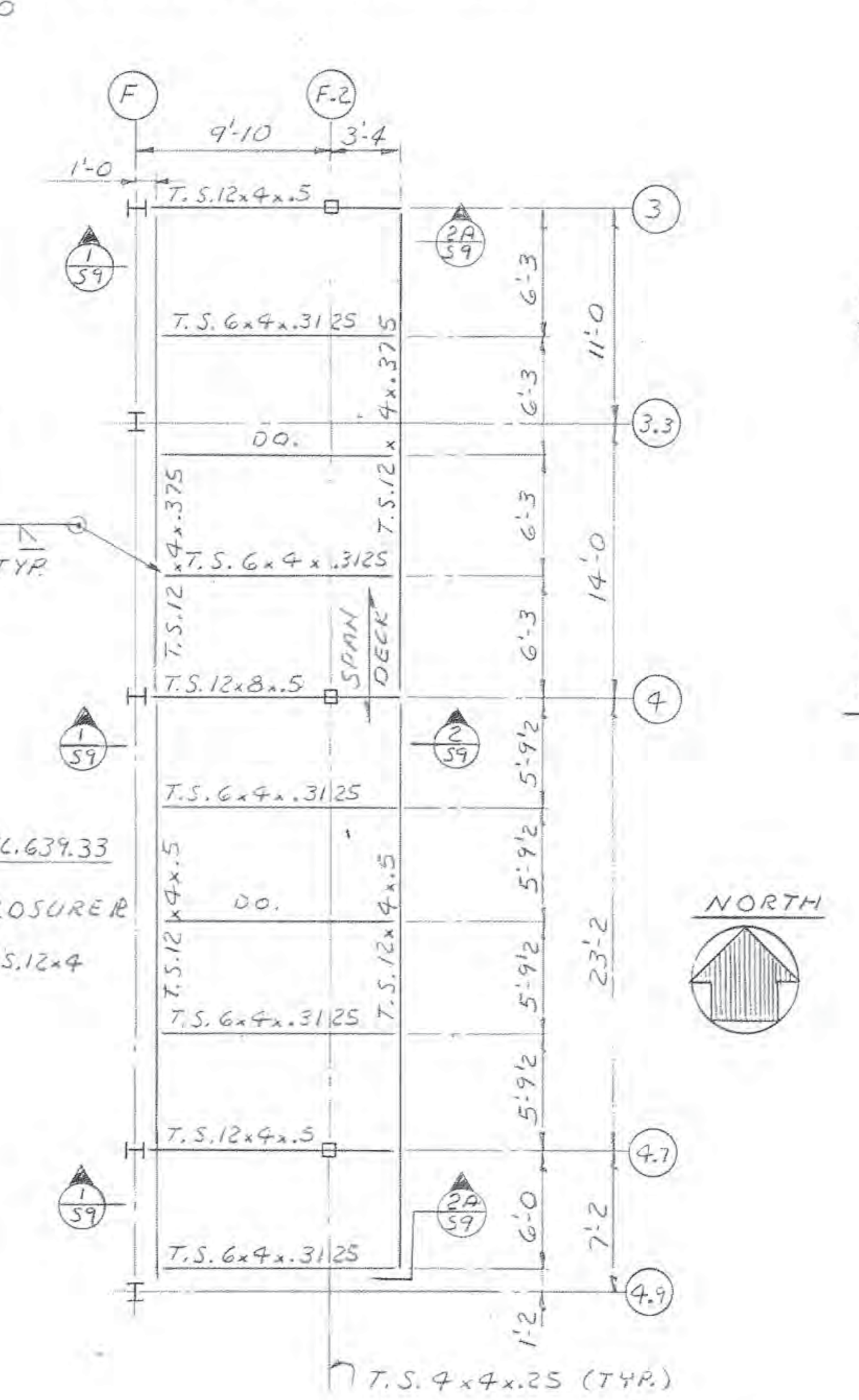
COLS. 6 & 13 ONLY
SCALE: ½" = 1'-0

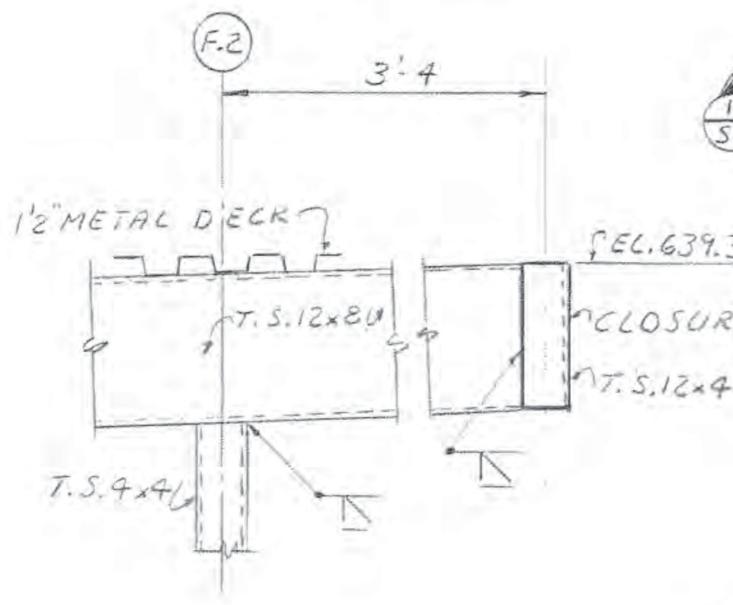
NOTE:
SEE DWGS. 31-S1 & 31-S3 FOR GENERAL NOTES.



SECTION 1/S9

SCALE: ¾" = 1'-0





SECTION 2/S9

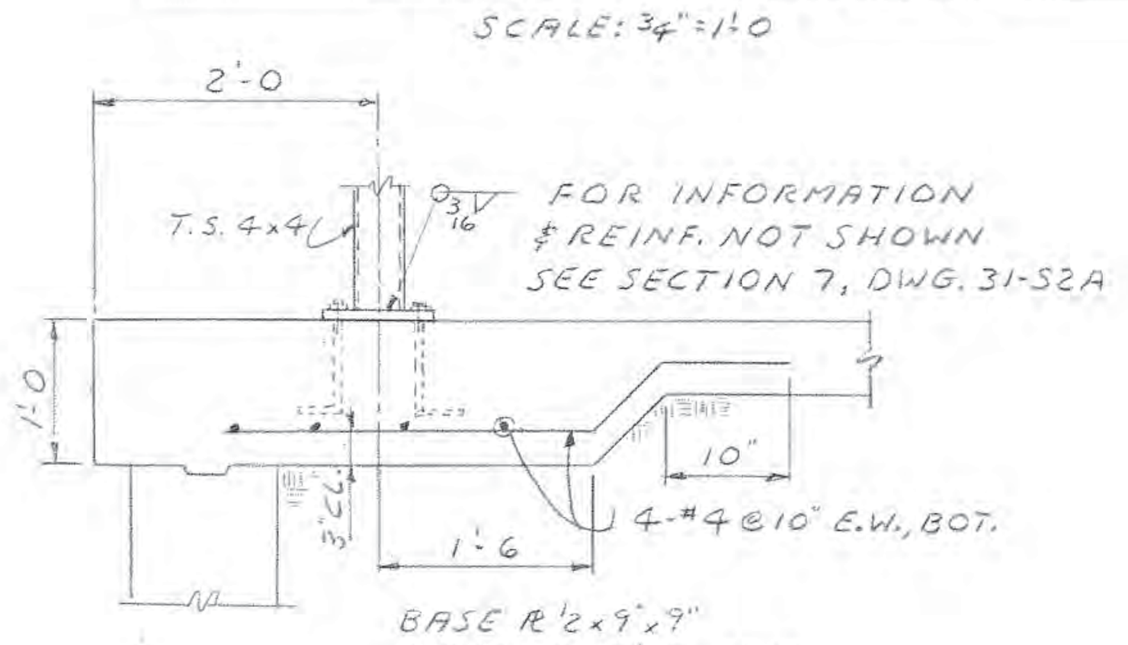
SCALE: ¾" = 1'-0

SECTION 2A/S9

SIMILAR

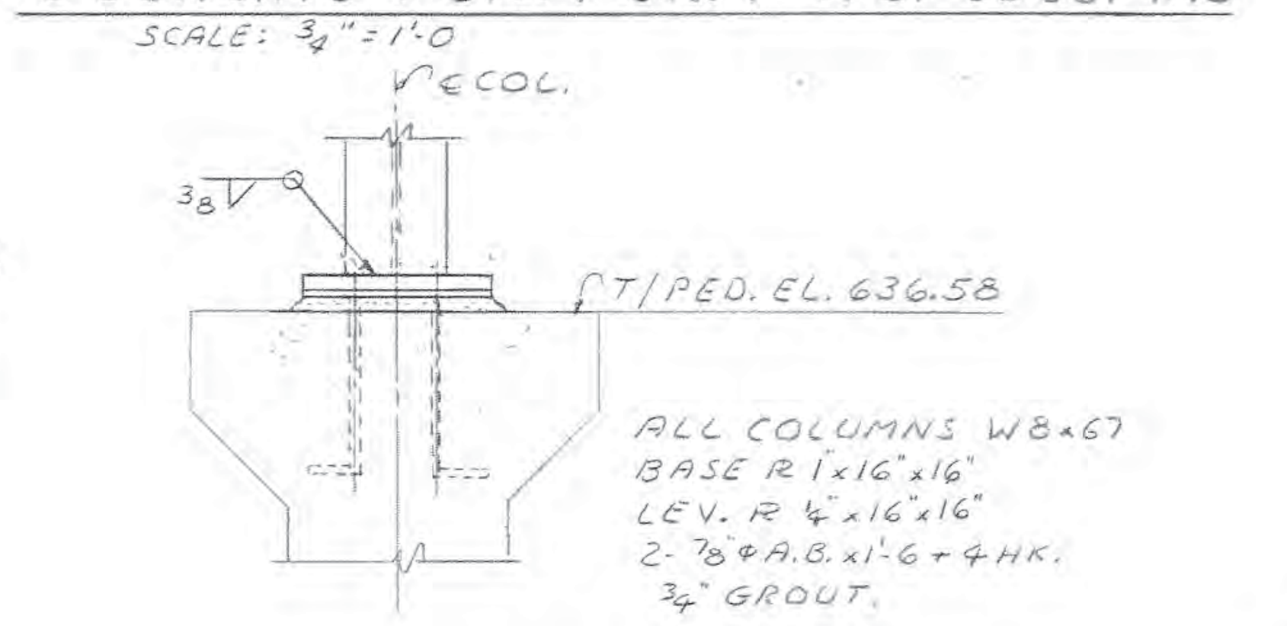
LOADING PLATFORM ROOF FRAMING PLAN

TOP/STEEL EL. AS NOTED IN SECTIONS.
SCALE: ⅛" = 1'-0
1½" METAL DECK, 22 GAGE, GALV., MIN. Sp = SN = .214 IN³, I = .189 IN⁴



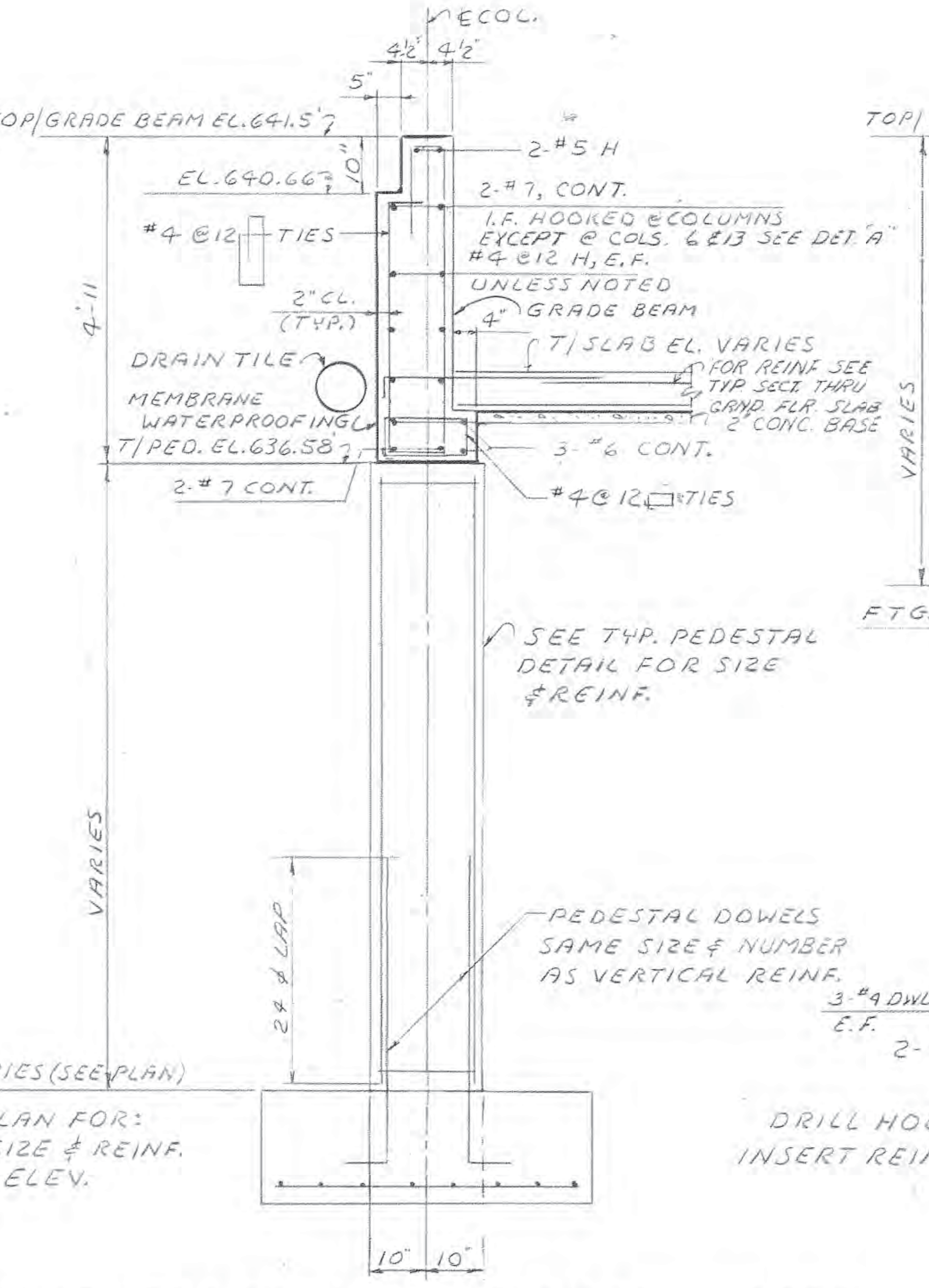
TYP. COLUMN BASE & FTG. DETAIL @ LOADING PLATFORM T.S. COLUMNS

SCALE: ¾" = 1'-0



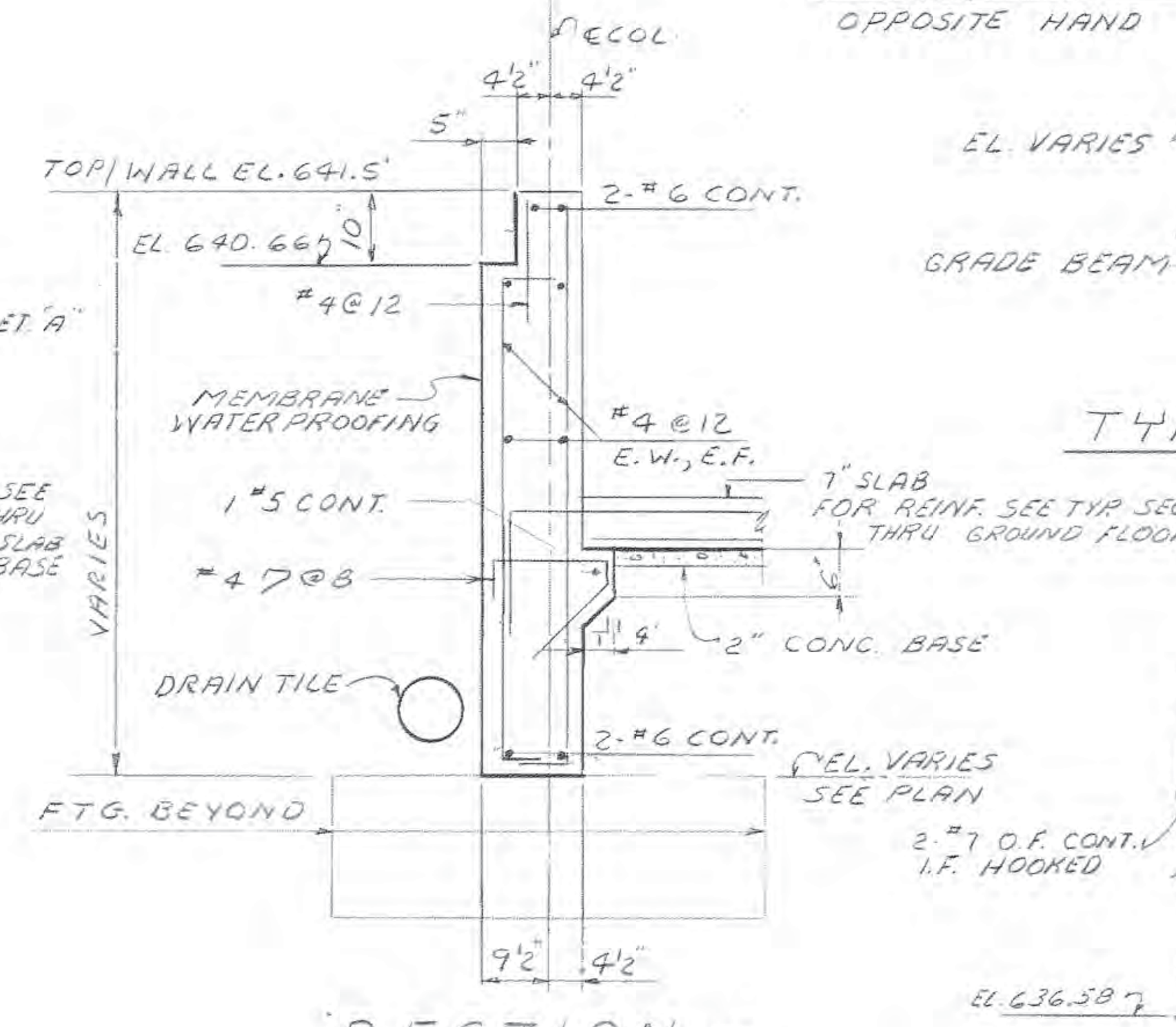
COLUMN BASE DETAIL @ CONNECTING CORRIDOR

NOT TO SCALE



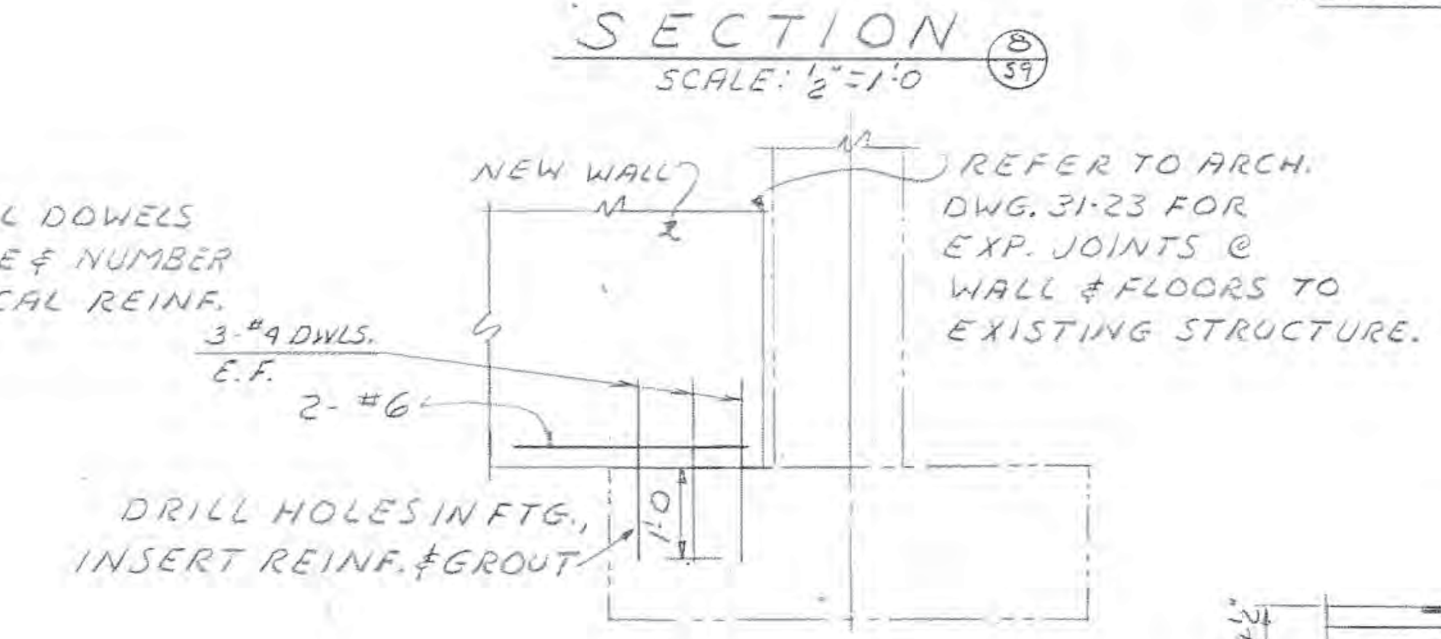
TYP. PEDESTAL & GRADE BEAM DETAIL

ALL I.F. REINF.: 2 #5 TOP HOOKED AT COLS. UNLESS NOTED
ALL O.F. REINF. UNLESS NOTED, CONT.
SCALE: ½" = 1'-0



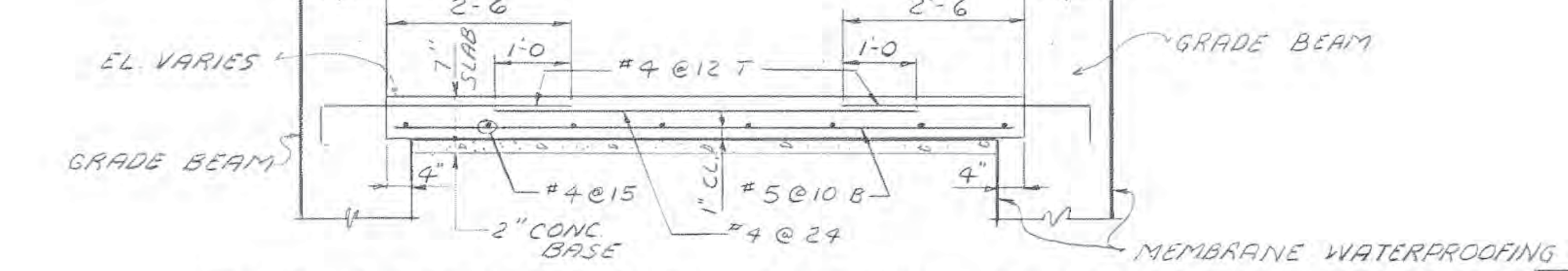
SECTION 8/S9

SCALE: ½" = 1'-0



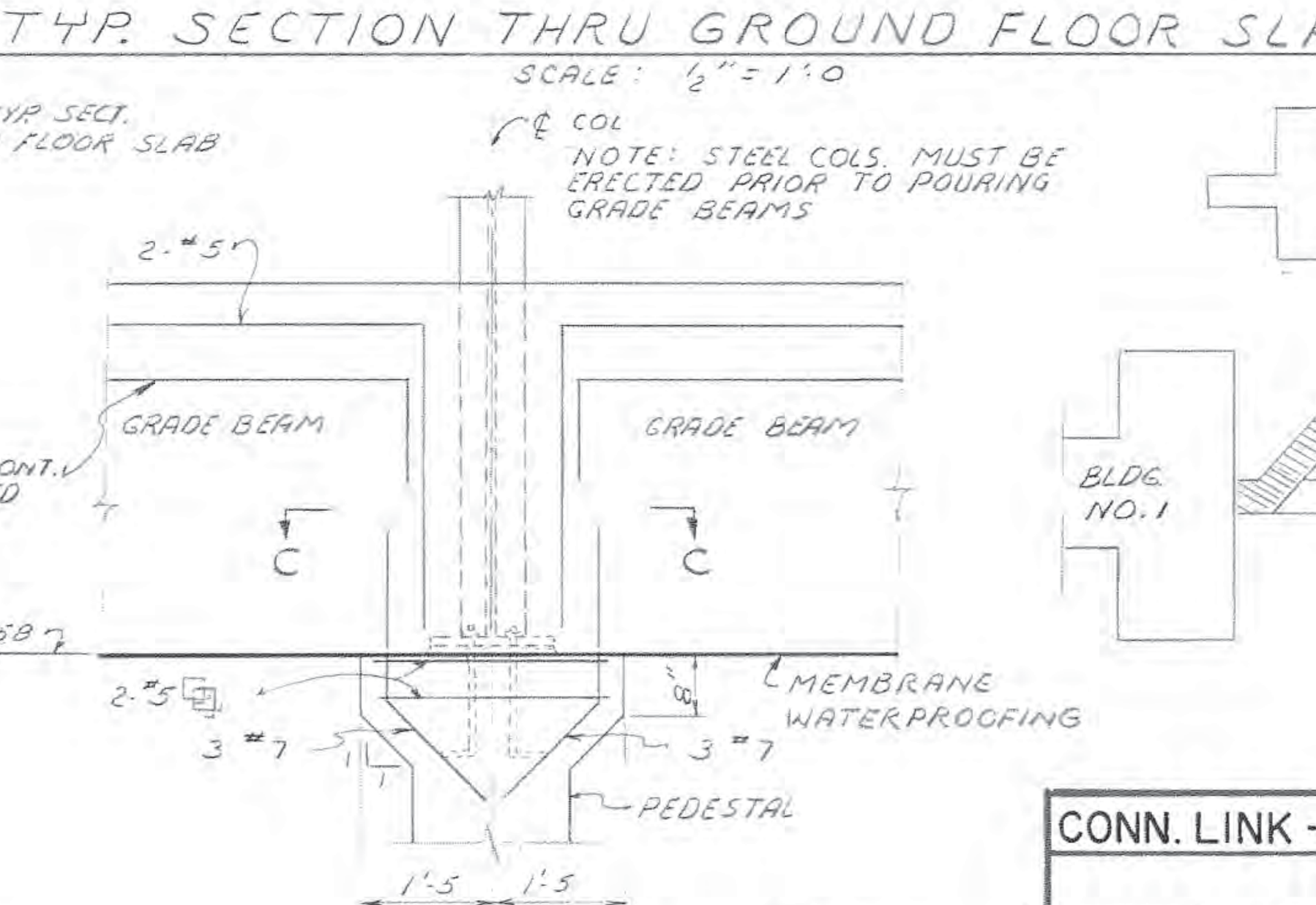
TYP. DETAIL WALL @ EXISTING FTG.

SCALE: ½" = 1'-0



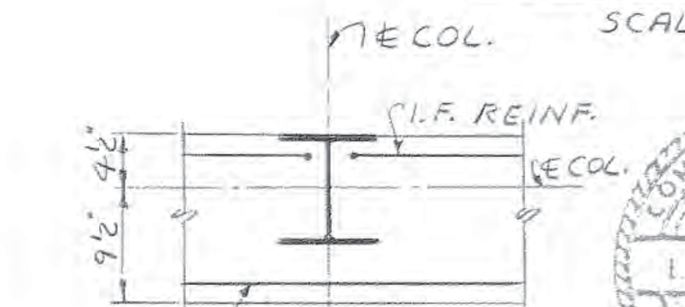
TYP. SECTION THRU GROUND FLOOR SLAB

SCALE: ½" = 1'-0



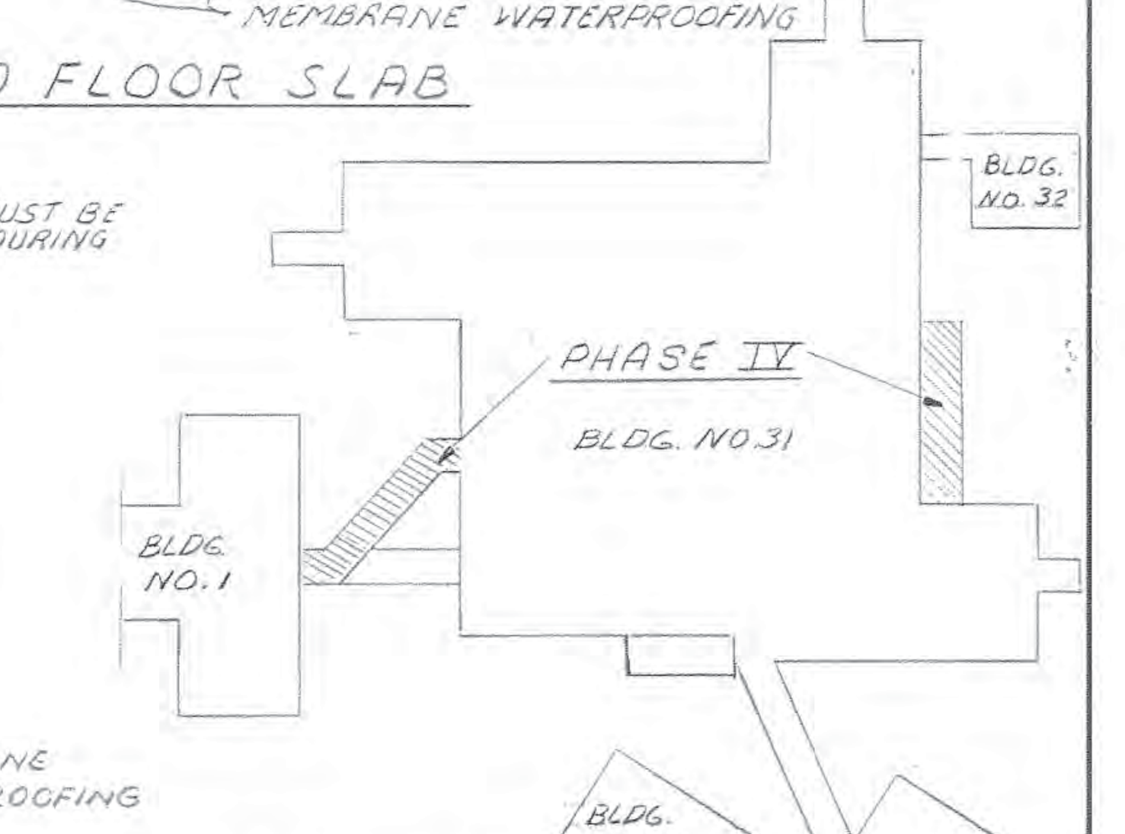
TYP. DETAIL - GRADE BEAM @ PEDESTAL

SCALE ½" = 1'-0



DETAIL C-C

SCALE: ¾" = 1'-0
SEE DETAILS A & B FOR CONDITIONS @ COL'S 6 & 13



2-2-1-1558

CONN. LINK - BLDG. NO. 1 TO BLDG. NO. 31
BUILDING NO. 31

NEW 204 BED HOSPITAL BUILDING

VETERANS ADMINISTRATION
WHITE RIVER JUNCTION, VERMONT

Drawn J.K	Proj. Mgr. S.B.	REVISIONS	
Checked W.S.	Date OCT. 27, '71	No Date	Description
		△ 9-10-74	AS BUILT

BELLANTE CLAUSS MILLER & NOLAN
ARCHITECTS ENGINEERS PLANNERS
130 NORTH WASHINGTON AVE. SCRANTON, PA.

Project Director

DRAWING NUMBER 31 - S9
Sheet 9 of 13
Proj. No. 44-5053

MAIN ENTRANCE & RETAINING WALL
BUILDING NO. 31

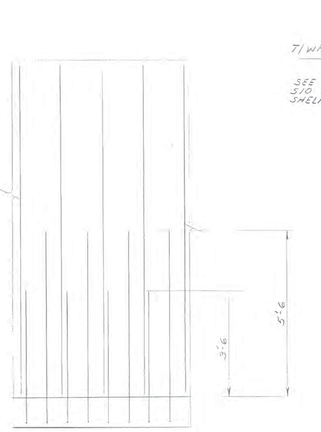
NEW 204 BED HOSPITAL BUILDING

VETERANS ADMINISTRATION
WHITE RIVER JUNCTION, VERMONT

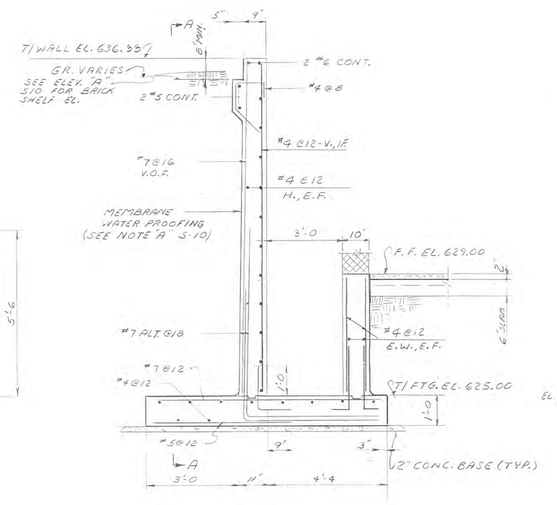
Drawn T.E., W.S.	Proj. Mgr. S.B.	REVISIONS	
Checked J.R.G.	Date OCT. 27, '71	No. Date	Description
		△ 9-10-74	AS BUILT

BELLANTE CLAUSS MILLER & NOLAN
ARCHITECTS ENGINEERS PLANNERS
130 NORTH WASHINGTON AVE. SCRANTON, PA.

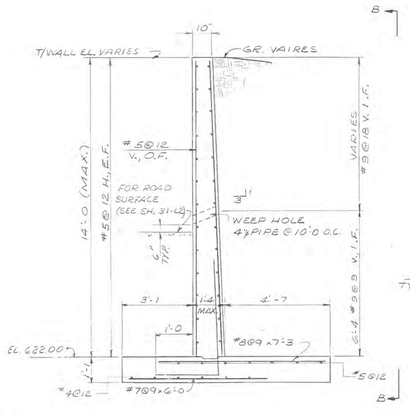
DRAWING NUMBER
31-S11
Sheet 11 Of 13
Proj. No. 44-5053



ELEVATION "A-A"

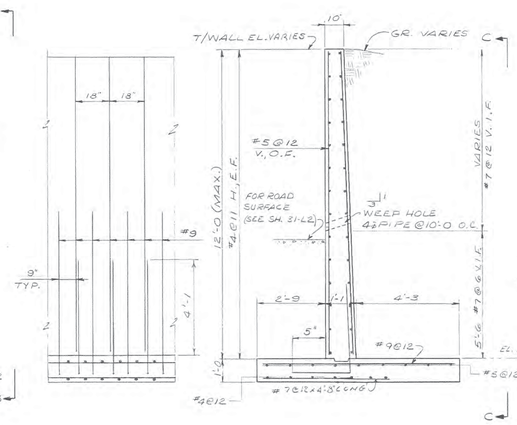


SECTION
SCALE: 1/2"=1'-0 (5/8)



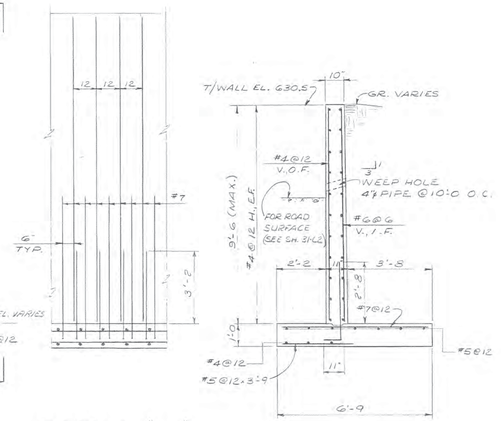
ELEVATION "B-B"

W4
SCALE: 3/8"=1'-0

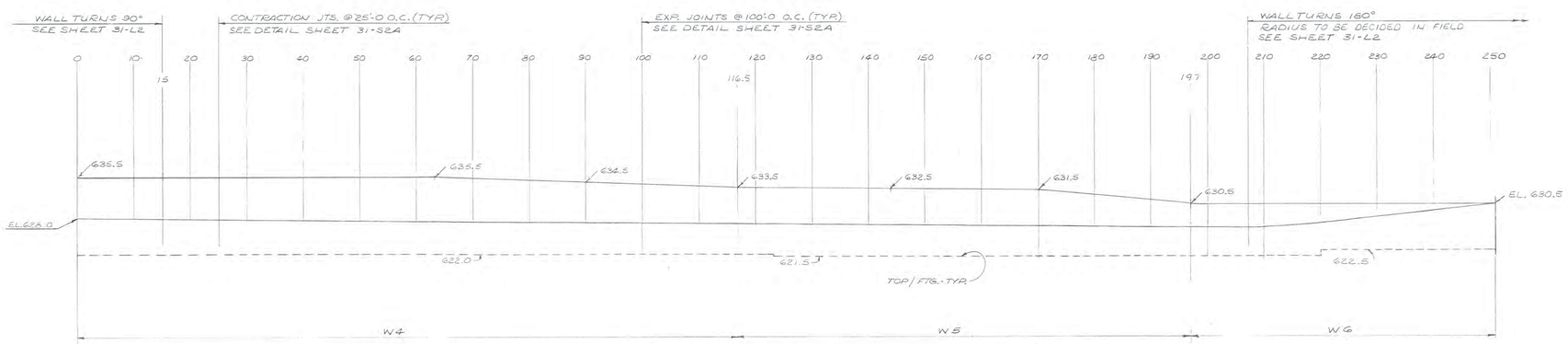


ELEVATION "C-C"

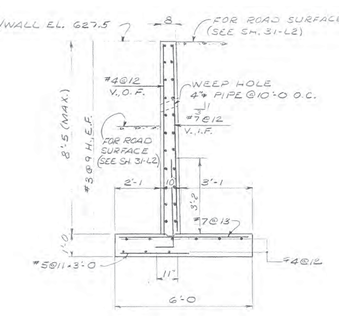
W5
SCALE: 3/8"=1'-0



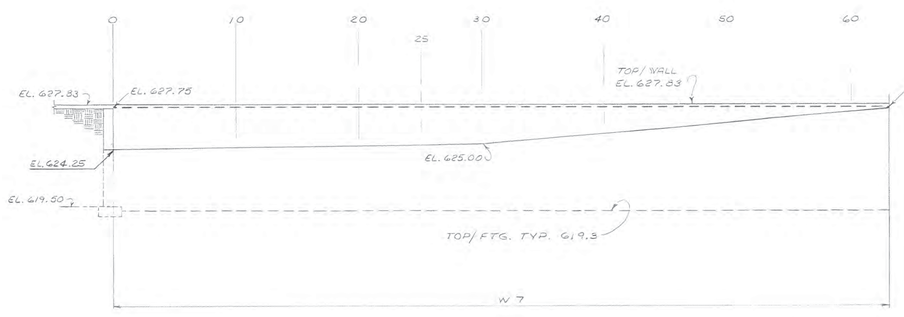
W6
SCALE: 3/8"=1'-0



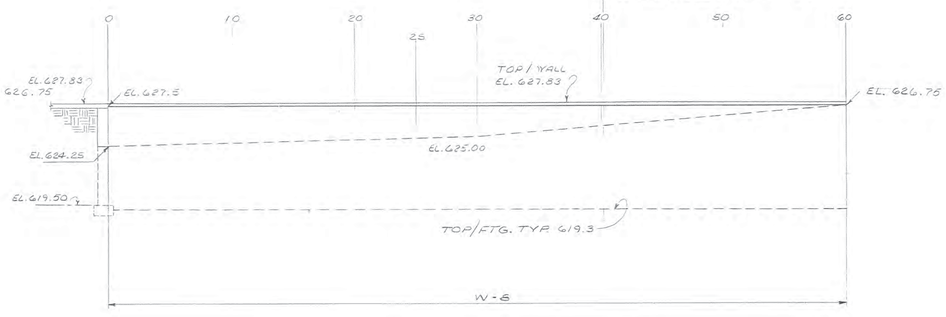
RETAINING WALL ELEVATION
SCALE: 1"=10'-0
EAST PARKING NEAR OXYGEN STORAGE



W7 & W8
SCALE: 3/8"=1'-0



RETAINING WALL ELEVATION
SCALE: 1"=5'-0
LOADING DOCK



RETAINING WALL ELEVATION
SCALE: 1"=5'-0
LOADING DOCK

2-2-1-1560

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — E. LAWRENCE BELLANTE — ENGINEER No. 13154

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — JOHN ROBERT GAMBLE — ENGINEER 15574-E

RETAINING WALLS
BUILDING NO. 31
NEW 204 BED HOSPITAL BUILDING
VETERANS ADMINISTRATION
WHITE RIVER JUNCTION, VERMONT

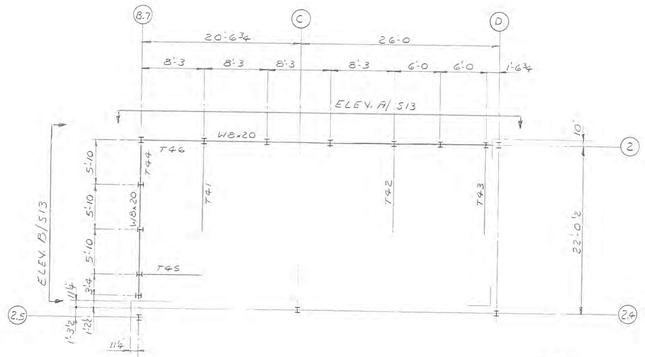
Drawn F.S. | Proj. Mgr. S.B.
Checked J.L. | Date OCT. 27, '71

REVISIONS		
No	Date	Description
1	9-10-74	AS BUILT

BELLANTE CLAUSS MILLER & NOLAN
ARCHITECTS ENGINEERS PLANNERS
130 NORTH WASHINGTON AVE. SCRANTON, PA.

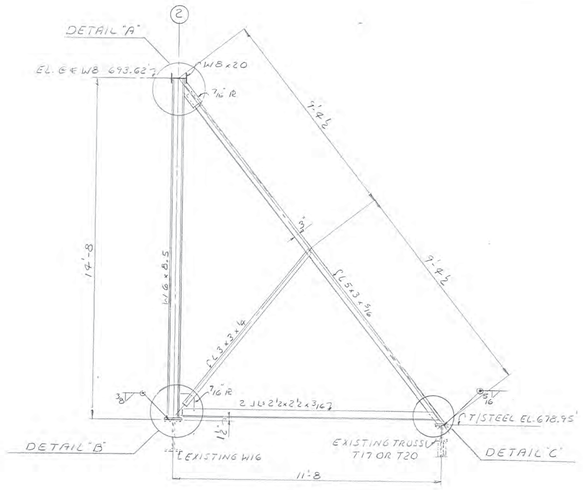
DRAWING NUMBER
31-S12
Sheet 12 of 13
Proj. No. 44-5053

RETURN TRACINGS TO PLAN LIBRARY

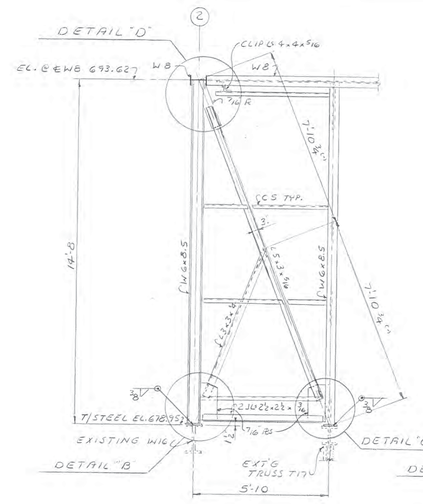


ROOF SCREEN PLAN

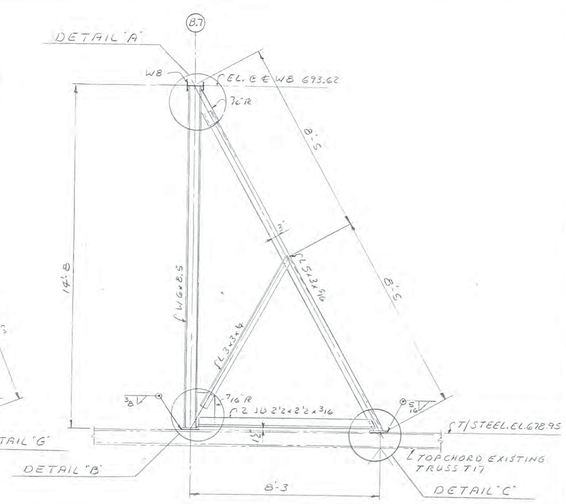
ALL COLUMNS W6 x 8.5
SCALE: 1/8" = 1'-0
SEE DWG. NO. 31-S3 FOR GENERAL NOTES.



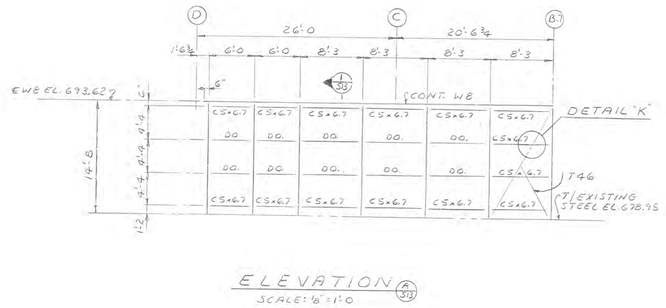
TRUSS T41
TRUSS T42
TRUSS T43
SCALE: 3/8" = 1'-0



TRUSS T44
SCALE: 3/8" = 1'-0

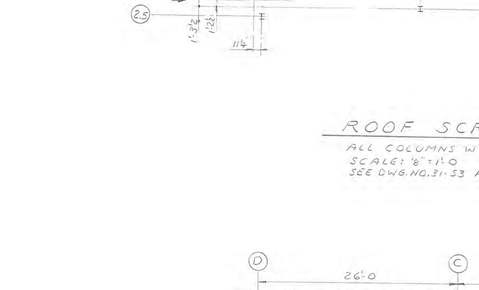


TRUSS T45
SCALE 3/8" = 1'-0



ELEVATION (A/S13)
SCALE: 1/8" = 1'-0

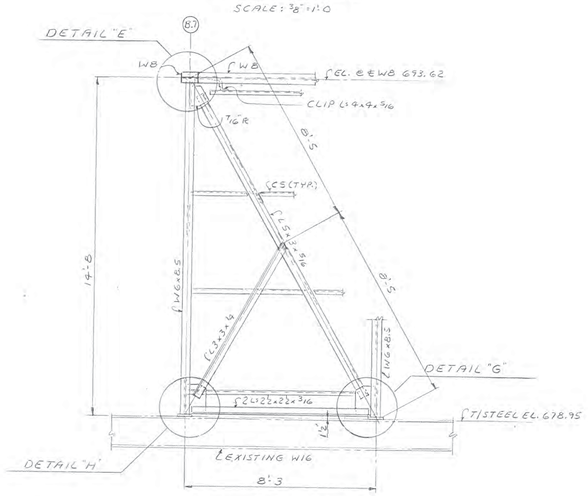
ELEVATION (G/S13)
SCALE: 1/8" = 1'-0



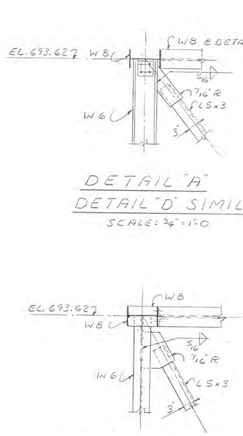
SECTION (1/S13)
SCALE: 3/4" = 1'-0

DETAIL "K"
SCALE: 1" = 1'-0

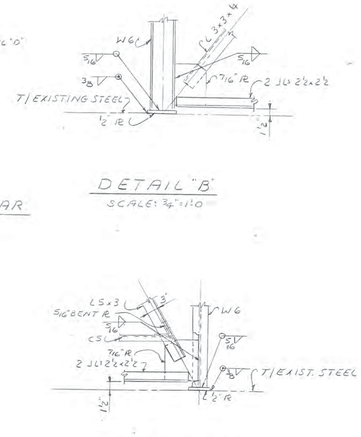
TYP. DETAIL @ TRUSS BOTTOM CHORD
SCALE: 3/4" = 1'-0



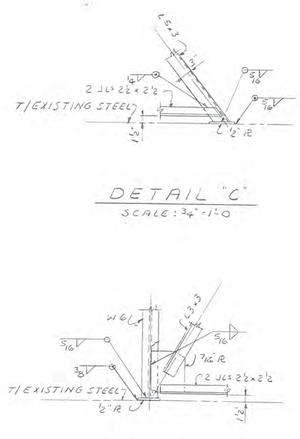
TRUSS T46
SCALE: 3/8" = 1'-0



SCALE: 3/4" = 1'-0



SCALE: 3/4" = 1'-0

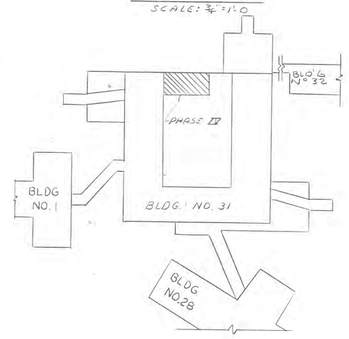


SCALE: 3/4" = 1'-0

SCALE: 3/4" = 1'-0

SCALE: 3/4" = 1'-0

SCALE: 3/4" = 1'-0



PHASE IV

2-2-1-1561

WIND SCREEN PLAN & DETAILS	
BUILDING NO. 31	
NEW 204 BED HOSPITAL BUILDING	
VETERANS ADMINISTRATION WHITE RIVER JUNCTION, VERMONT	
Drawn TE / Checked JRG	Proj. Mgr. S.G. / Date OCT. 27, '71
REVISIONS: No. 1 Date 7-10-74 Description AS BUILT	
BELLANTE CLAUSS MILLER & NOLAN ARCHITECTS ENGINEERS PLANNERS 130 NORTH WASHINGTON AVE. SCRANTON, PA.	DRAWING NUMBER 31-S13 Sheet 13 Of 17 Proj. No. 44-5083

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