

### LEGEND OF MATERIALS

|  |                     |
|--|---------------------|
|  | CONCRETE BLOCK      |
|  | BRICK               |
|  | CONCRETE            |
|  | PLASTER             |
|  | LIMESTONE           |
|  | GLAZED STRUCT. UNIT |
|  | INSULATION          |
|  | EARTH               |
|  | WOOD - ROUGH        |
|  | WOOD - FINISHED     |

### DRAWING LIST

| DRAWING NO. | TITLE  |
|-------------|--|
| 1           | COVER SHEET  |
| 2           | PLOT, PAVING & GRADING PLAN                                      |
| 3           | PAVING, ISLANDS, MISC. PLAZA DETAILS                             |
| 4           | ELECTRICAL   |
| 5           | TOLL OFFICE BUILDING - FLOOR PLAN                                |
| 6           | TOLL OFFICE BUILDING - ROOF & SOFFIT PLANS & DETAILS             |
| 7           | TOLL OFFICE BUILDING - ELEVATIONS & SECTIONS                     |
| 8           | TOLL OFFICE BUILDING - WALL SECTIONS - SHEET 1                   |
| 9           | TOLL OFFICE BUILDING - WALL SECTIONS - SHEET 2                   |
| 10          | TOLL OFFICE BUILDING - DOOR, HARDWARE & ROOM FINISH SCHEDULES    |
| 11          | TOLL OFFICE BUILDING - GROUND FLOOR & FOUNDATION PLAN & SECTIONS |
| 12          | TOLL OFFICE BUILDING - ROOF FRAMING PLAN                         |
| 13          | TOLL OFFICE BUILDING - SECTIONS & DETAILS                        |
| 14          | TOLL OFFICE BUILDING - HEATING, VENTILATING & AIR CONDITIONING   |
| 15          | TOLL OFFICE BUILDING - HEATING, VENTILATING & AIR CONDITIONING   |
| 16          | TOLL OFFICE BUILDING - PLUMBING PLANS                            |
| 17          | TOLL OFFICE BUILDING - PLUMBING DETAILS                          |
| 18          | TOLL OFFICE BUILDING - ELECTRICAL                                |
| 19          | TOLL OFFICE BUILDING - PLANS & DETAILS                           |
| 20          | PEDESTRIAN OVERPASS - GENERAL PLAN & ELEVATIONS                  |
| 21          | PEDESTRIAN OVERPASS - FRAMING PLAN & DETAILS                     |
| 22          | PEDESTRIAN OVERPASS - SECTIONS & DETAILS                         |
| 23          | PEDESTRIAN OVERPASS - PIERS - DETAILS & REINFORCEMENT            |
| 24          | PEDESTRIAN OVERPASS - STAIRWAYS S1 & S2 - PLAN & DETAILS         |
| 25          | PEDESTRIAN OVERPASS - STAIRWAYS S1 & S2 - REINFORCEMENT          |
| 26          | PEDESTRIAN OVERPASS - BAR LIST & SPECIAL BENDING DETAILS         |
|             | PEDESTRIAN OVERPASS - TYPICAL BAR TYPES & HOOK DIMENSIONS        |

### NOTES:

1. Work this Dwg. with Dwg. 5 of 69 in Section N° EA-1, to co-ordinate all work indicated to be by others.

COMMONWEALTH OF VIRGINIA  
CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT  
NORFOLK 1, VIRGINIA

SVERDRUP & PARCEL, CONSULTING ENGINEERS  
NEW YORK, N. Y. - ST. LOUIS, MO. - NORFOLK, VA.

CHESAPEAKE BAY BRIDGE-TUNNEL CROSSING  
NORTH TOLL PLAZA  
PLOT, PAVING & GRADING PLAN

RECOMMENDED:

*R.E. Spilhaus*

APPROVED:

*Chavetta*

|                             |                 |
|-----------------------------|-----------------|
| DRAWN BY: <i>Water</i>      | SCALE: 1" = 10' |
| CHECKED BY: <i>Chavetta</i> | DATE: 1-16-64   |
| DWG. NO. 1 of 26            |                 |
| SECTION NO. TF-4            |                 |

AS BUILT



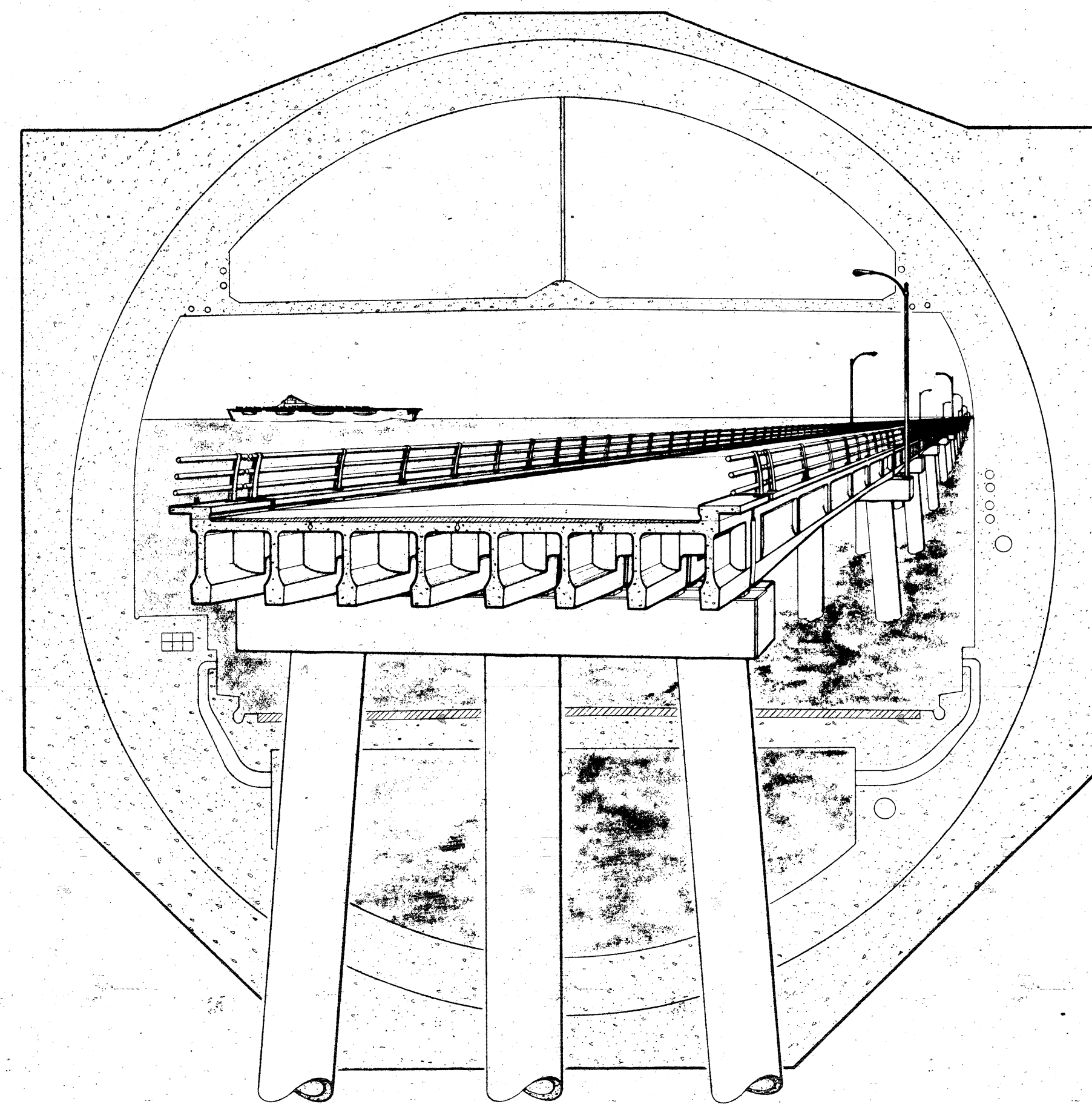
|       |     |          |          |
|-------|-----|----------|----------|
| G.C.  | 2   | 8-14-64  | AS BUILT |
| APPR. | NO. | REVISION |          |

DO NOT SCALE THIS DRAWING. FOLLOW DIMENSIONS.

# CHESAPEAKE BAY BRIDGE-TUNNEL CROSSING

SECTION NO. TF-4

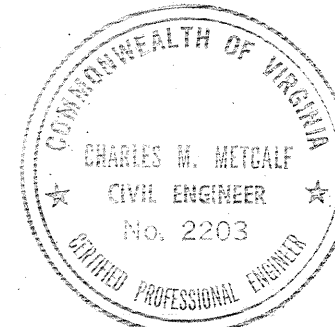
NORTH TOLL PLAZA



FOR  
COMMONWEALTH OF VIRGINIA  
CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT  
NORFOLK I, VIRGINIA

PREPARED BY  
SVERDRUP & PARCEL, CONSULTING ENGINEERS  
NEW YORK, N.Y. - ST. LOUIS, MO. - NORFOLK, VA.

JANUARY, 1963

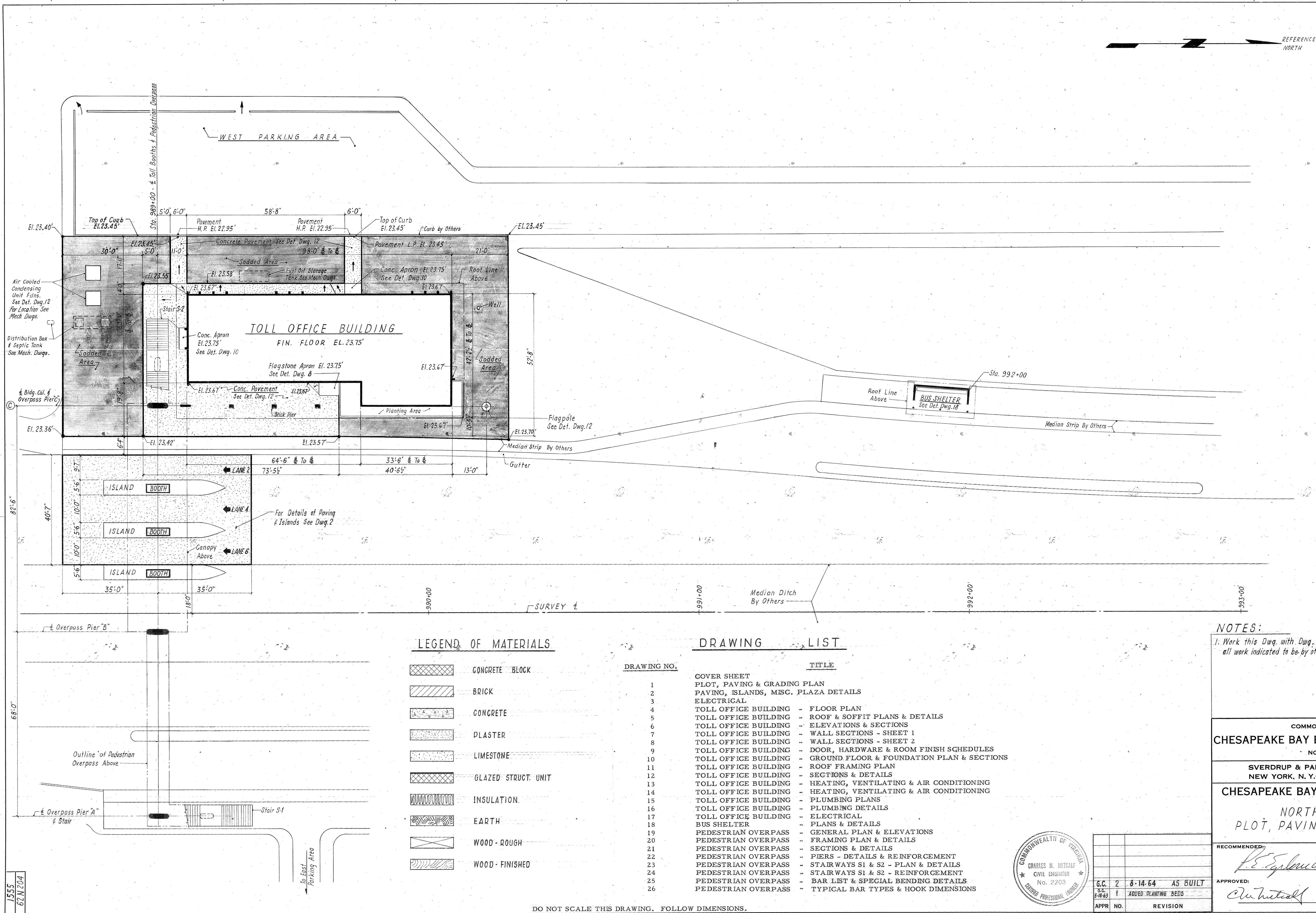


RECOMMENDED

*Philip E. Epton*

APPROVED

*Charles M. Hettrich*



LEGEND OF MATERIALS

|  |                     |
|--|---------------------|
|  | CONCRETE BLOCK      |
|  | BRICK               |
|  | CONCRETE            |
|  | PLASTER             |
|  | LIMESTONE           |
|  | GLAZED STRUCT. UNIT |
|  | INSULATION          |
|  | EARTH               |
|  | WOOD - ROUGH        |
|  | WOOD - FINISHED     |

DRAWING LIST

| DRAWING NO. | TITLE  |
|-------------|--|
| 1           | COVER SHEET  |
| 2           | PLOT, PAVING & GRADING PLAN                                      |
| 3           | PAVING, ISLANDS, MISC. PLAZA DETAILS                             |
| 4           | ELECTRICAL   |
| 5           | TOLL OFFICE BUILDING - FLOOR PLAN                                |
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| 16          | TOLL OFFICE BUILDING - PLUMBING PLANS                            |
| 17          | TOLL OFFICE BUILDING - PLUMBING DETAILS                          |
| 18          | TOLL OFFICE BUILDING - ELECTRICAL                                |
| 19          | TOLL OFFICE BUILDING - PLANS & DETAILS                           |
| 20          | PEDESTRIAN OVERPASS - GENERAL PLAN & ELEVATIONS                  |
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| 26          | PEDESTRIAN OVERPASS - BAR LIST & SPECIAL BENDING DETAILS         |
|             | PEDESTRIAN OVERPASS - TYPICAL BAR TYPES & HOOK DIMENSIONS        |

NOTES:

1. Work this Dwg. with Dwg. 5 of 69 in Section N° EA-1, to co-ordinate all work indicated to be by others.

COMMONWEALTH OF VIRGINIA  
CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT  
NORFOLK 1, VIRGINIA

SVERDRUP & PARCEL, CONSULTING ENGINEERS  
NEW YORK, N. Y.-ST. LOUIS, MO.-NORFOLK, VA.

CHESAPEAKE BAY BRIDGE-TUNNEL CROSSING  
NORTH TOLL PLAZA  
PLOT, PAVING & GRADING PLAN

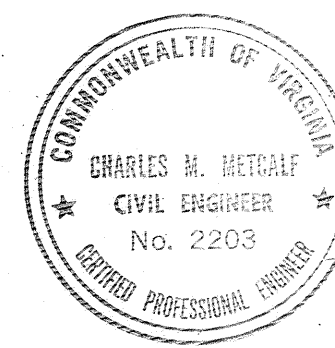
RECOMMENDED:

*R.E. Spilard*

APPROVED:

*Chavetta*

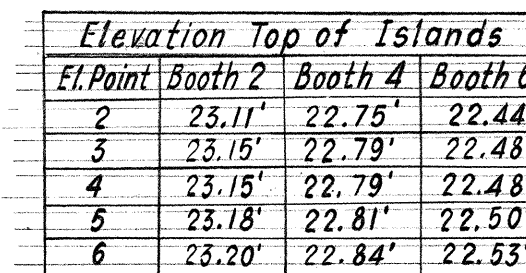
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|-----------------------------|-----------------|
| DRAWN BY: <i>Water</i>      | SCALE: 1" = 10' |
| CHECKED BY: <i>Chavetta</i> | DATE: 1-16-64   |
| DWG. NO. 1 of 26            |                 |
| SECTION NO. TF-4            |                 |



| APP. NO. | REVISION |
|----------|----------|
| 1        | AS BUILT |

AS BUILT

DO NOT SCALE THIS DRAWING. FOLLOW DIMENSIONS.



For Details & Location of Anchor Bolts For Canopy Col. Bents see Taller & Cooper Dwg. C-62881

DO NOT SCALE THIS DRAWING. FOLLOW DIMENSIONS

AS BUILT

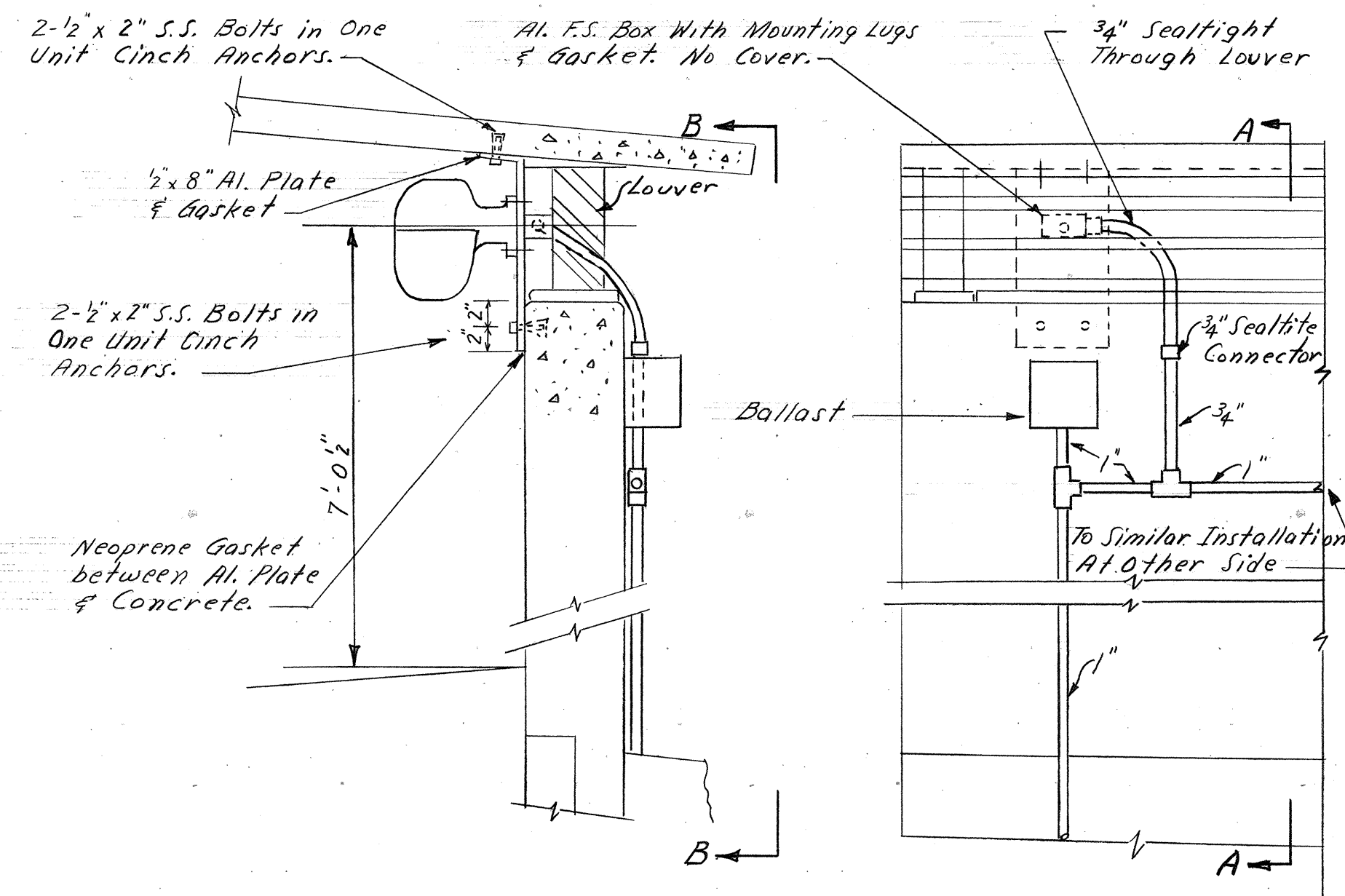
Ltg.-Toll Booth #2  
 Recp.-Toll Booth #2  
 H & V-Toll Booth #2  
 Ltg.-Toll Booth #6  
 Recp.-Toll Booth #6  
 H & V-Toll Booth #6  
 Spare  
 Spare  
 Spare

| SOLID NEUTRAL |                |    |                |
|---------------|----------------|----|----------------|
| 1             | 990W<br>20A-1P | 2  | 990W<br>20A-1P |
| 3             | 20A-1P         | 4  | 20A-1P         |
| 5             | 1/8" 1/20HP    | 6  | 1/8" 1/20HP    |
| 7             | 990W<br>20A-1P | 8  | 20A-1P         |
| 9             | 20A-1P         | 10 | 20A-1P         |
| 11            | 1/8" 1/20HP    | 12 | 20A-1P         |
| 13            | 20A-1P         | 14 | 20A-1P         |
| 15            | 20A-1P         | 16 | 20A-1P         |
| 17            | 20A-1P         | 18 | 20A-1P         |

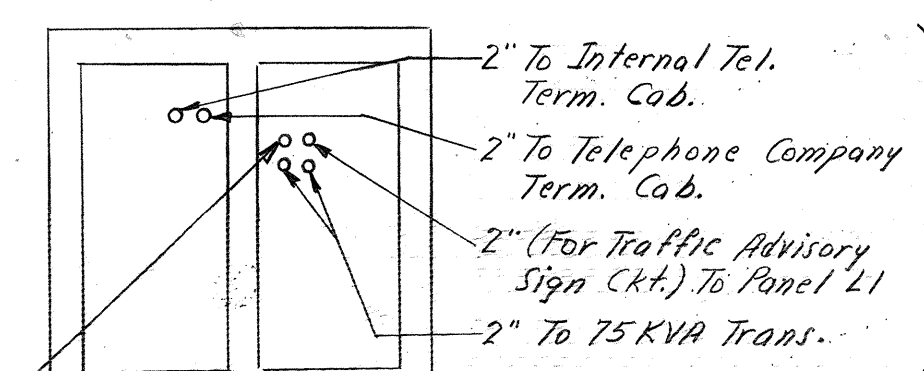
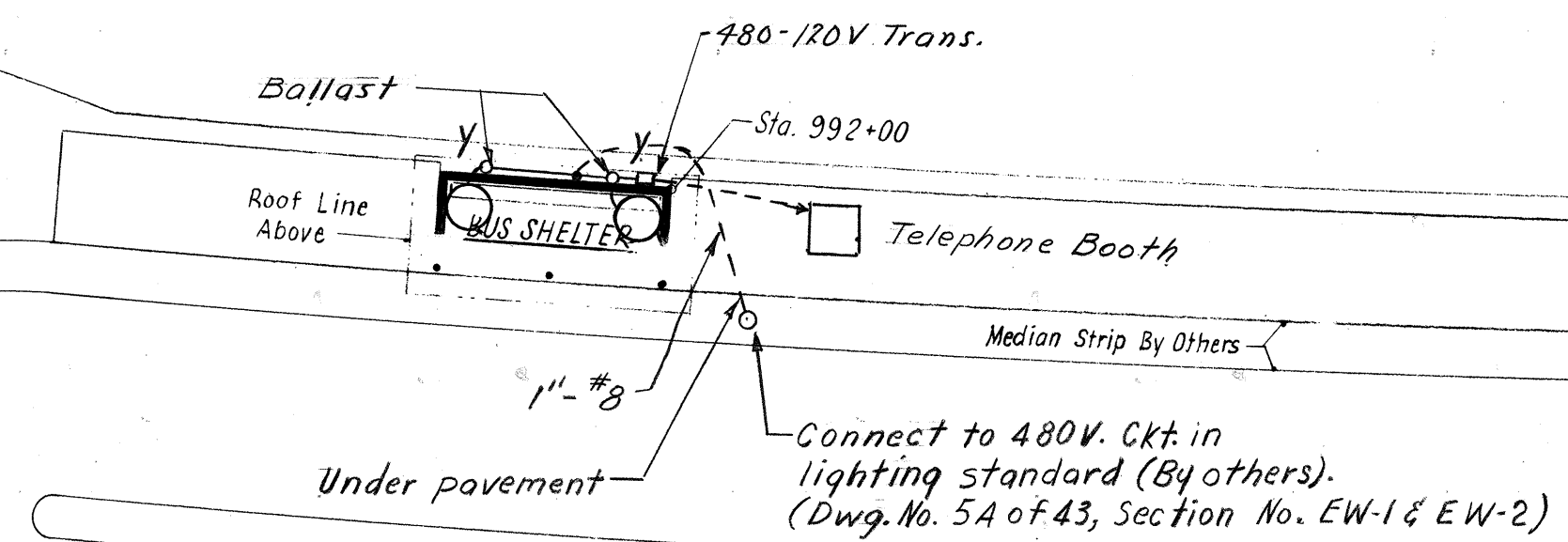
MAIN BREAKER  
 125A-3P

3 PHASE, 4 WIRE, 120/208V  
 MOUNTING: SURFACE  
 PANEL L3

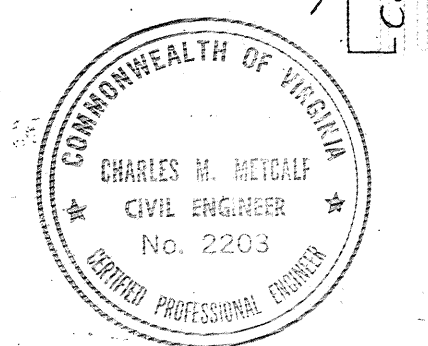
Ltg.-Toll Booth #4  
 Recp.-Toll Booth #4  
 H & V-Toll Booth #4  
 Ltg.-Future Toll Booth #8  
 Recp.-Future Toll Booth #8  
 H & V-Future Toll Booth #8  
 Spare  
 Sign on overpass - "Chesapeake  
 Bay Bridge-Tunnel Crossing"  
 Spare



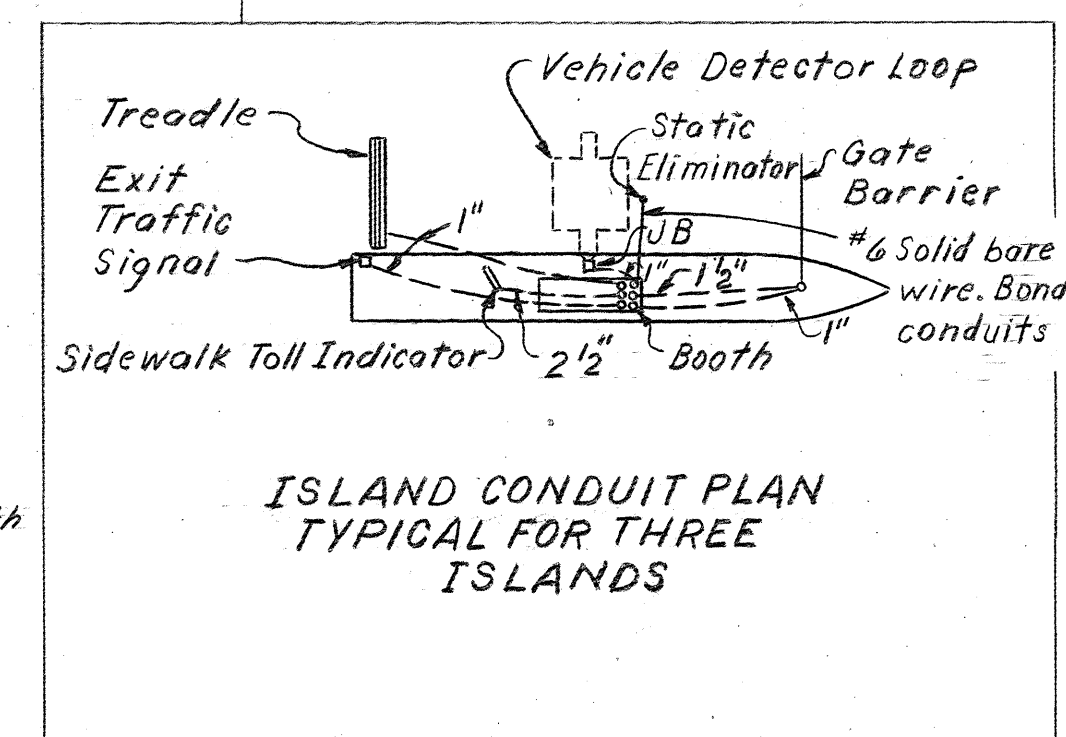
SECTION "A-A"  
 SECTION "B-B"  
 Installation Of Type "Y" Holophane No. 421NL  
 Lighting Fixture In Bus Shelter



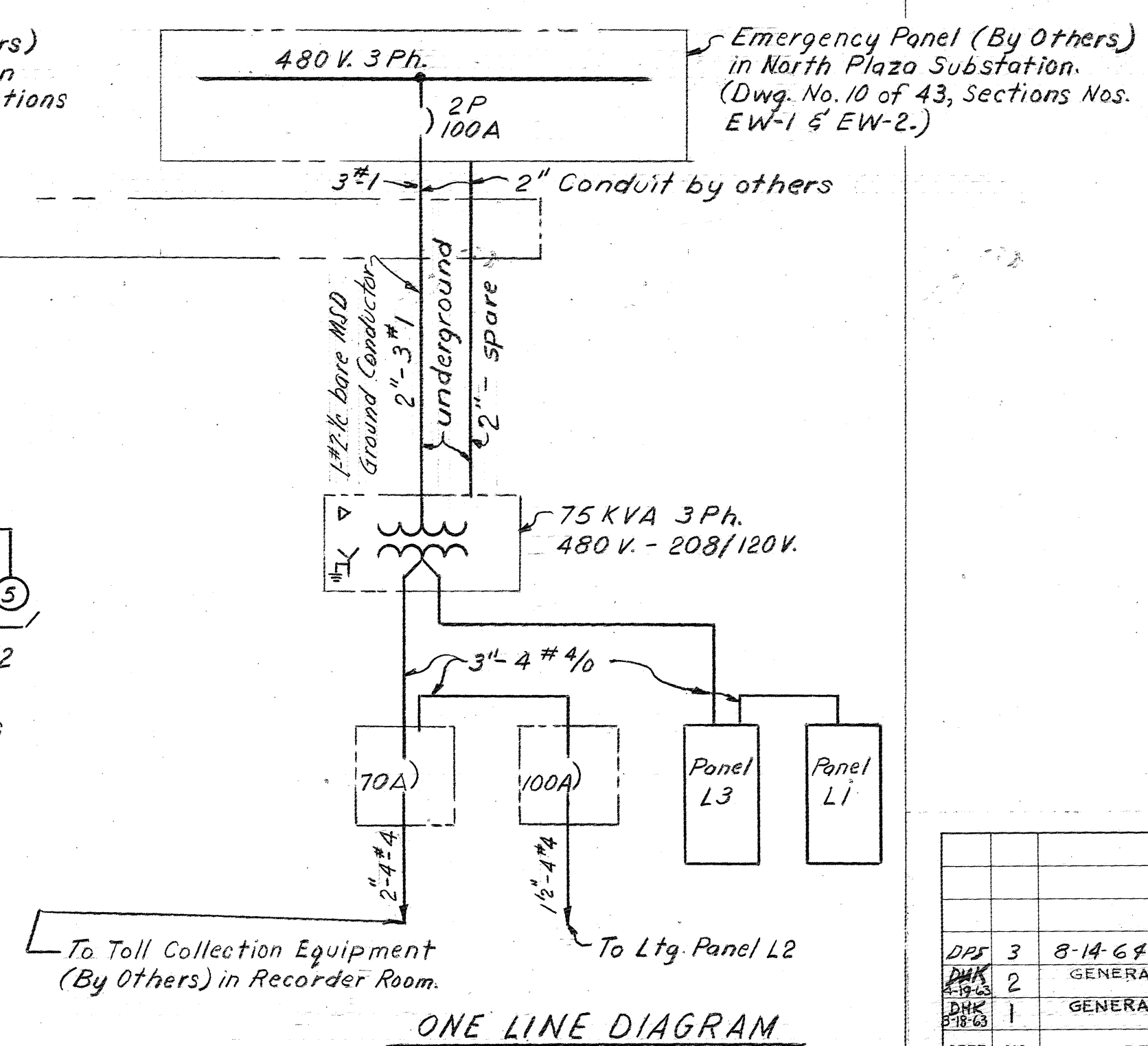
SECTION A-A  
 IN HANDHOLE 48  
 Scale: 1/4"=1'-0"



- Notes:
- For each toll booth & lane: Overhead traffic signals (furnished by others) to be installed & 3/4" conduit with 4 #12 to be installed from signals to control device (by others) in booth.
  - For each toll booth & lane, 3/4" conduit with 2 #12 to be installed from type R fixtures to switch (by others) in booth.
  - Thru toll booth #1, 3/4" conduit with 2 #12, Ckt. L3-16, to be installed to sign on overpass.
  - Conduits underground or under pavement are shown as follows "-----".
  - Conduits to be run within concrete foundations for overheight Tell Tales and terminated above concrete in base of support. SEE DWG. BT-444.



DO NOT SCALE THIS DRAWING. FOLLOW DIMENSIONS.

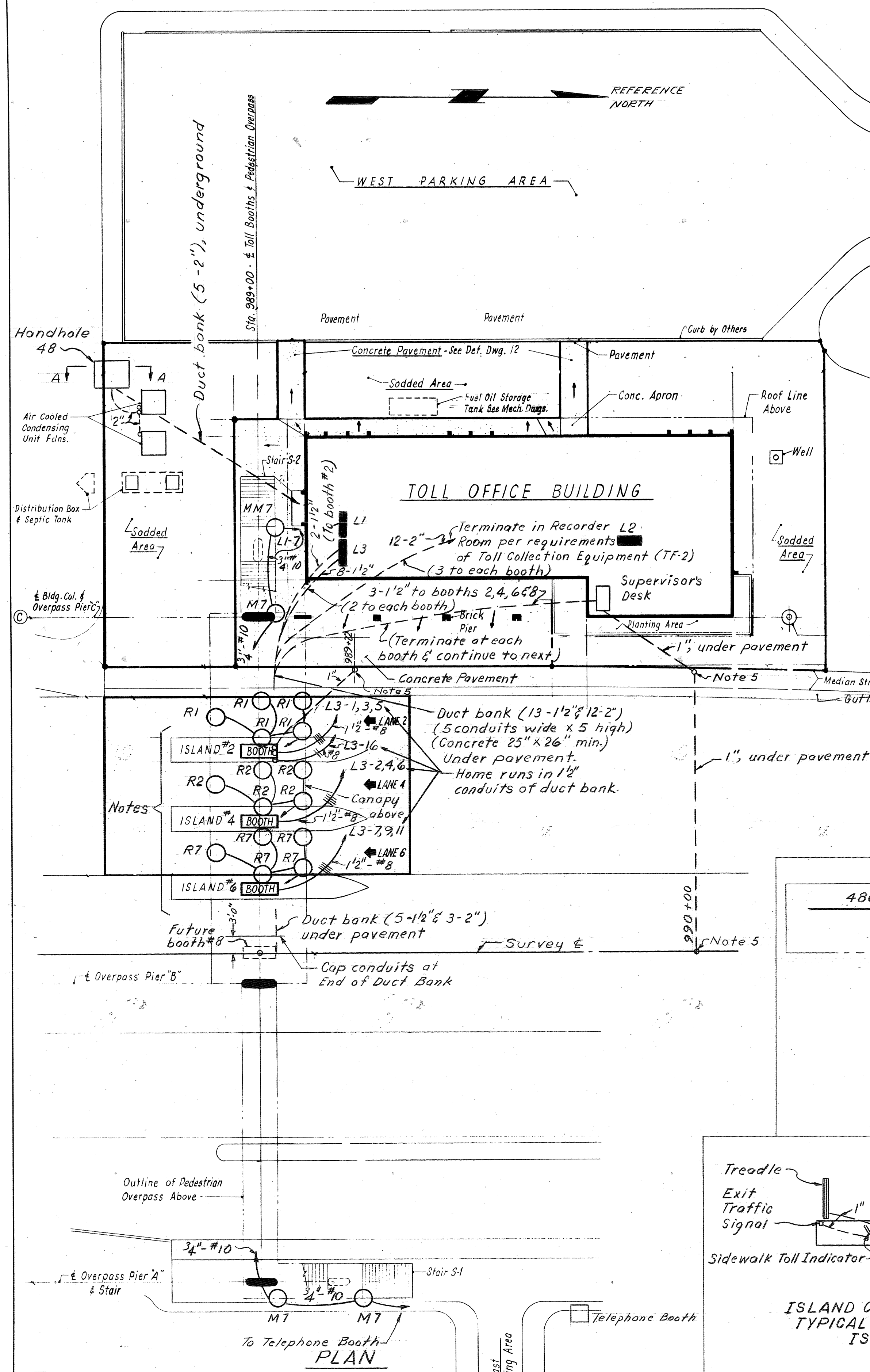


| APPR. | NO. | REVISION         |
|-------|-----|------------------|
| DPK   | 3   | 8-14-64 AS BUILT |
| DPK   | 2   | GENERAL REVISION |
| DPK   | 1   | GENERAL REVISION |

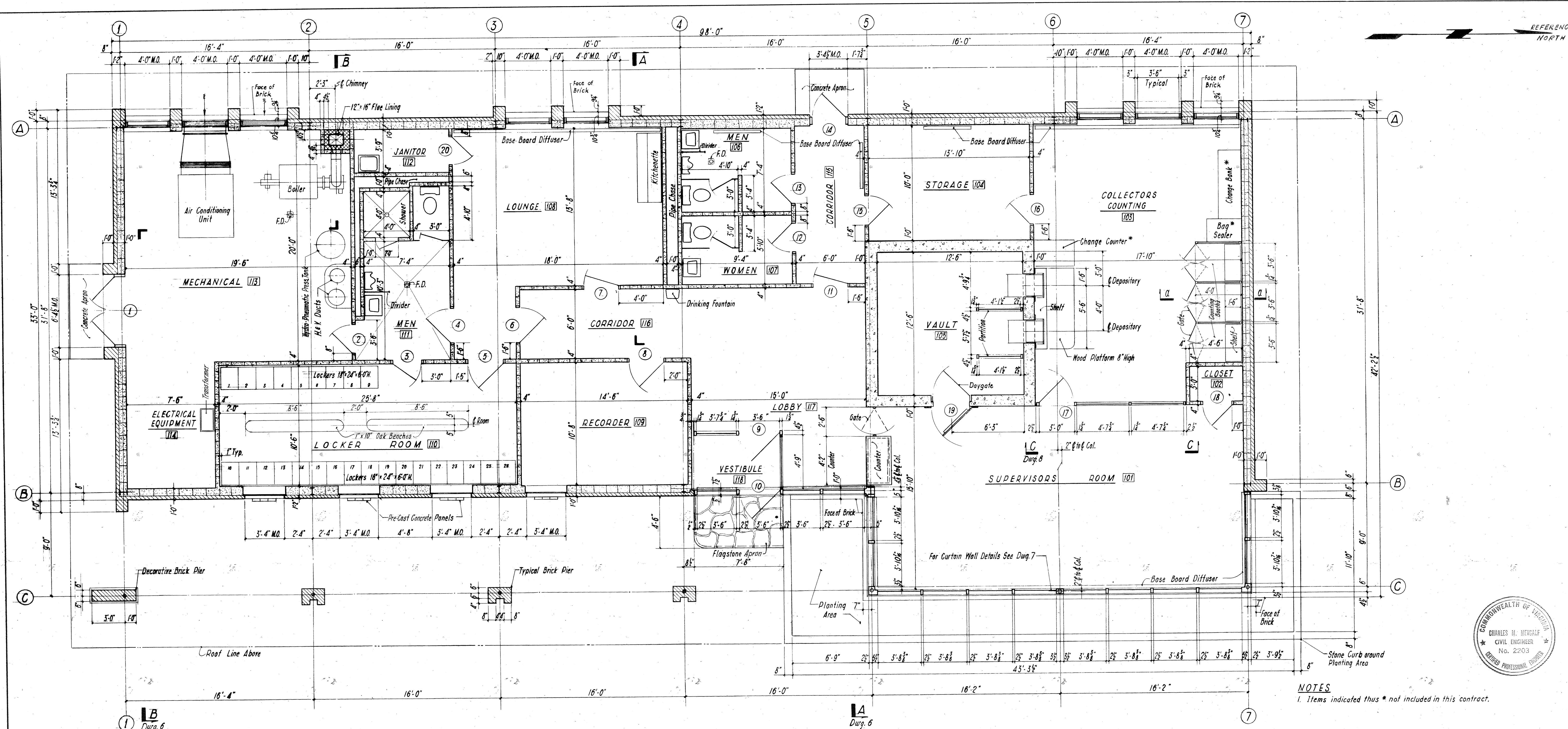
RECOMMENDED:  
*R.E. Egland*  
 APPROVED:  
*Ch. Mitchell*

DRAWN BY: J. A. SCALE: 1/8"=1'-0"  
 CHECKED BY: DPK DATE: 1-16-65  
 DWG. NO. 3 of 26  
 SECTION NO. TF-4

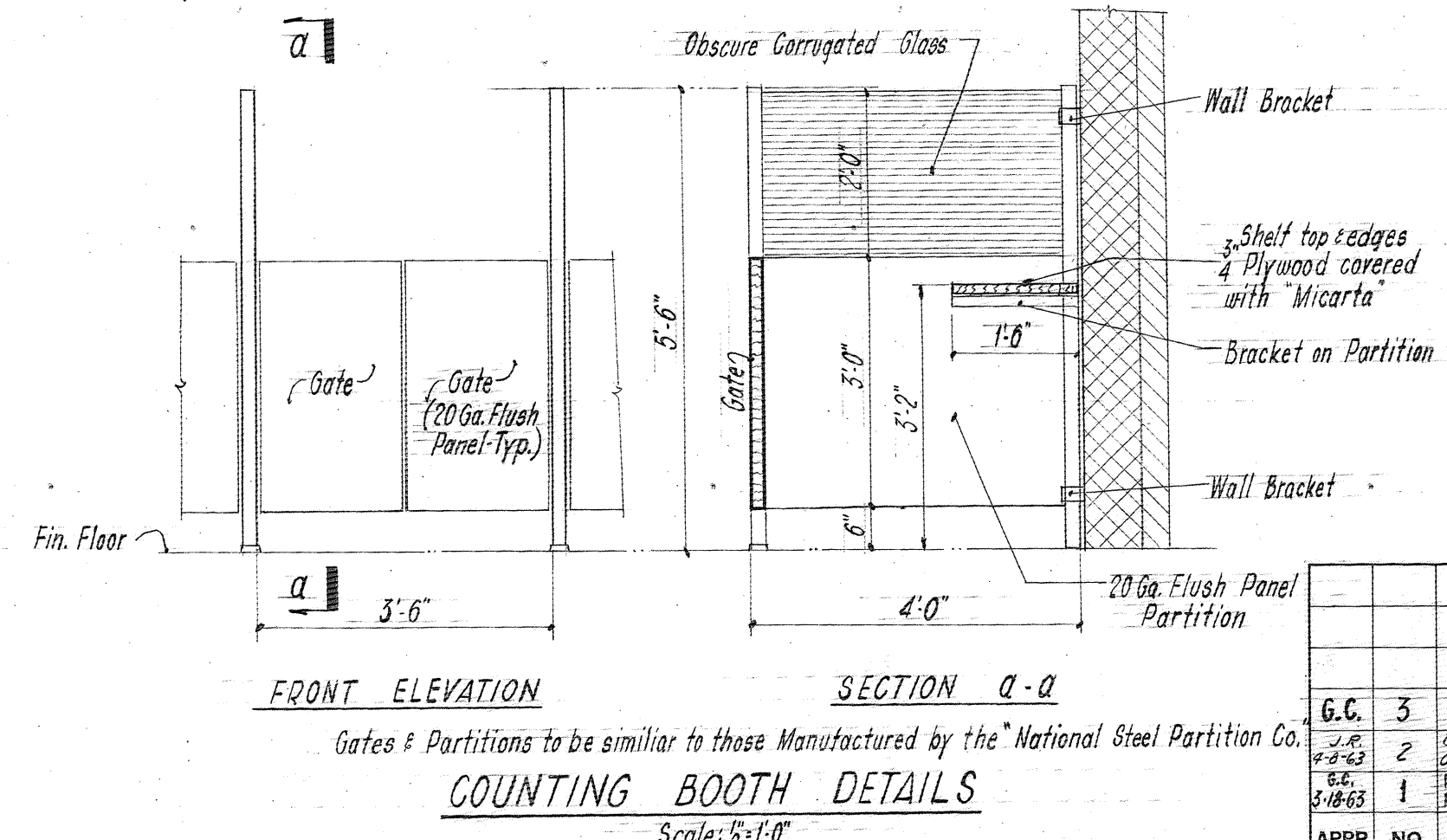
AS AS BUILT



1555  
 62 N206

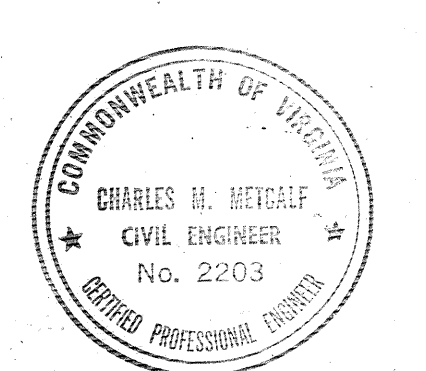


FLOOR PLAN



FRONT ELEVATION  
SECTION A-A  
COUNTING BOOTH DETAILS  
Scale: 1/2" = 1'-0"

NOTES  
1. Items indicated thus \* not included in this contract.

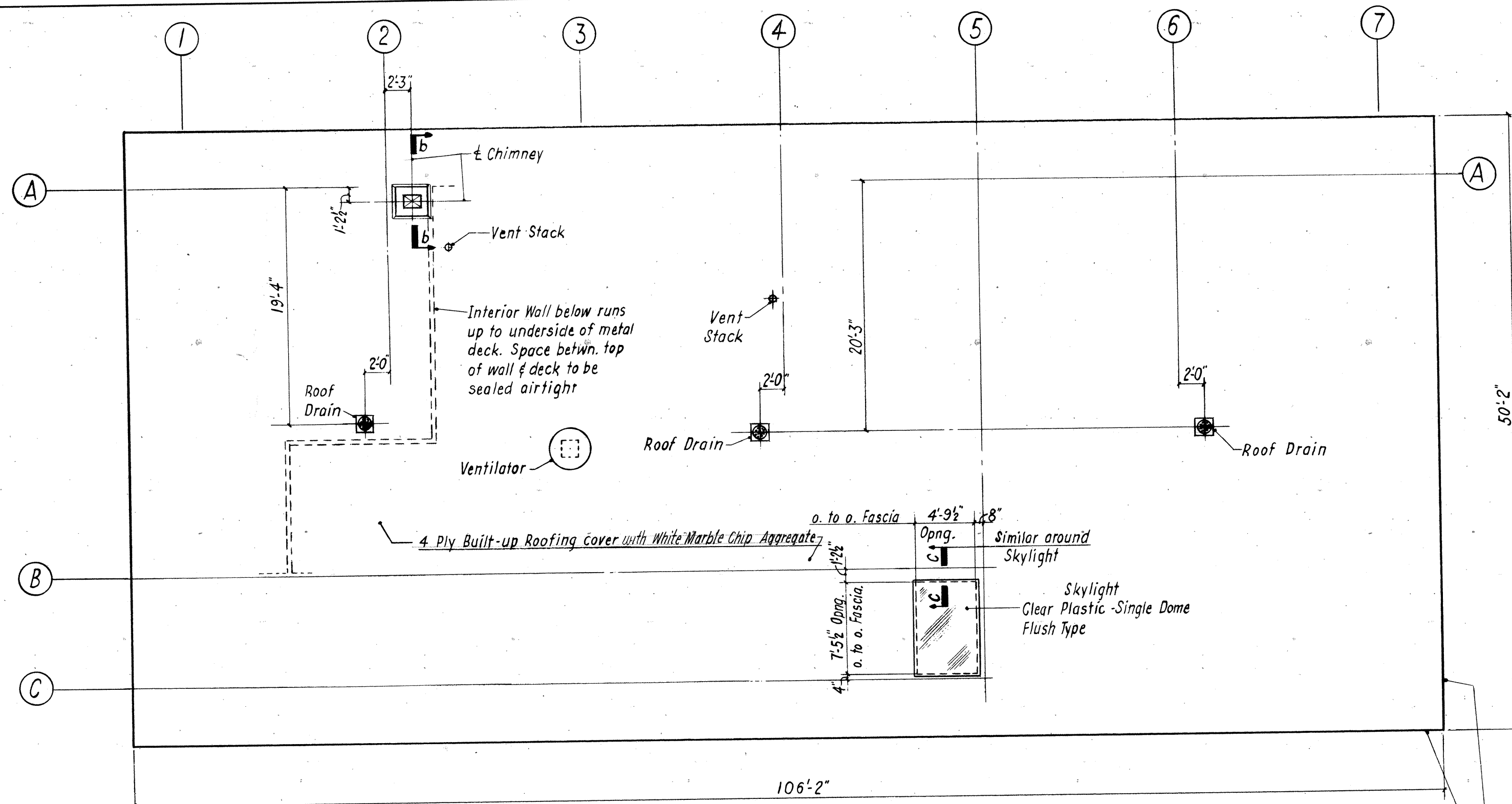


|   |  |
|---|--|
| COMMONWEALTH OF VIRGINIA  |  |
| CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT   |  |
| NORFOLK 1, VIRGINIA   |  |
| SVERDRUP & PARCEL, CONSULTING ENGINEERS<br>NEW YORK, N. Y. - ST. LOUIS, MO. - NORFOLK, VA.      |  |
| CHESAPEAKE BAY BRIDGE-TUNNEL CROSSING<br>NORTH TOLL PLAZA<br>TOLL OFFICE BUILDING<br>FLOOR PLAN |  |
| RECOMMENDED:<br><i>P.E. Egan</i>  | DRAWN BY: <i>Chavitt</i> SCALE: 1/2" = 1'-0" |
| CHECKED BY: <i>Devalto</i>  | DATE: 1-16-63                                |
| DWG. NO. 4 of 26  | SECTION NO. TF-4                             |

1555  
62N-207

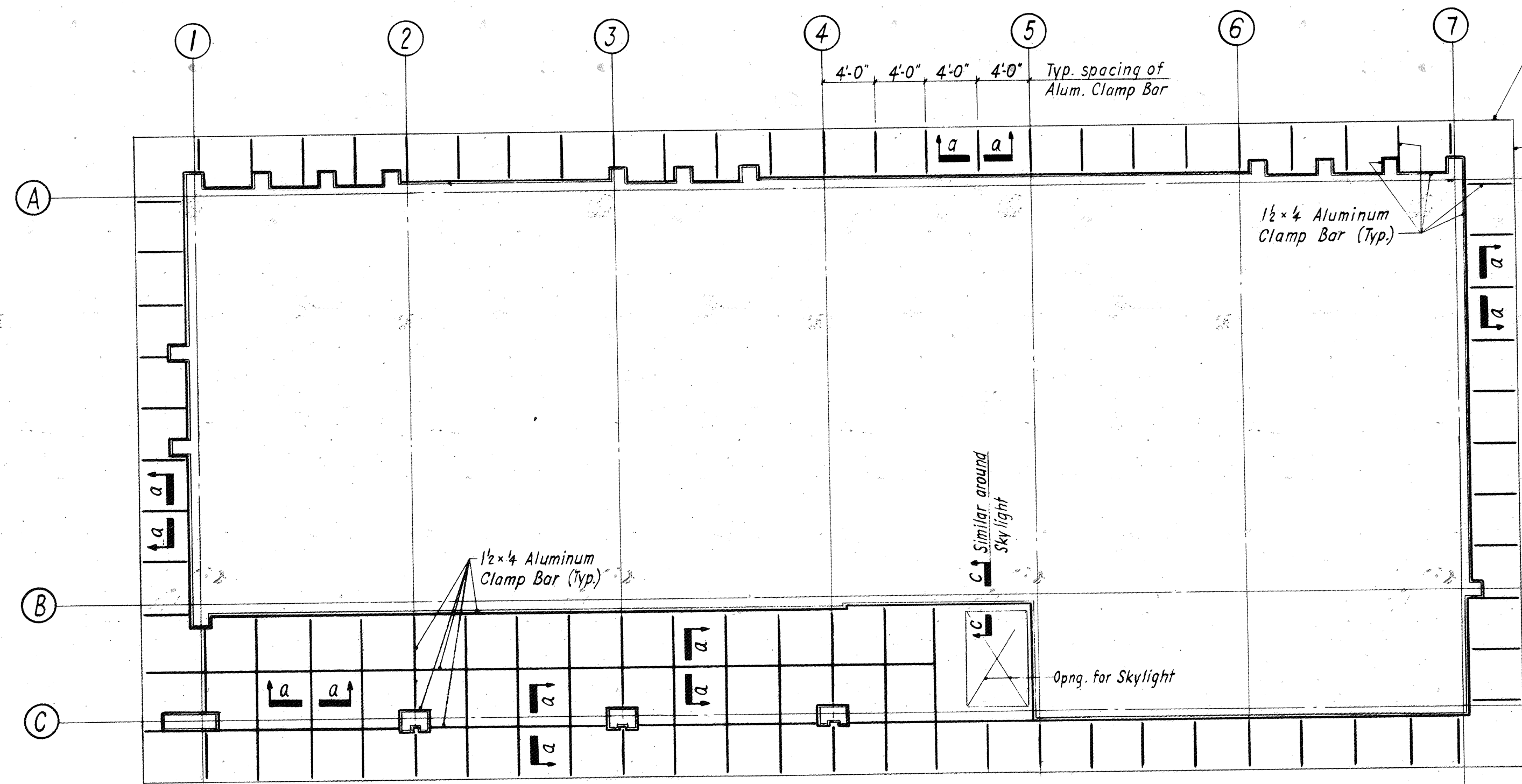
DO NOT SCALE THIS DRAWING. FOLLOW DIMENSIONS.

AS BUILT



**ROOF PLAN**

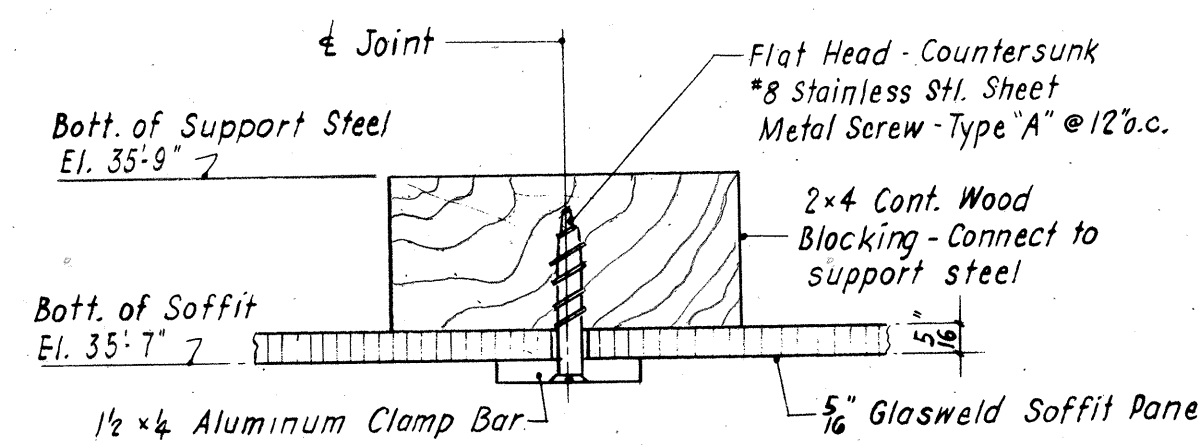
Scale: 1/8" = 1'-0"  
For location of Vents & Ventilator See Mech. Dwg.



**REFLECTED SOFFIT PLAN**

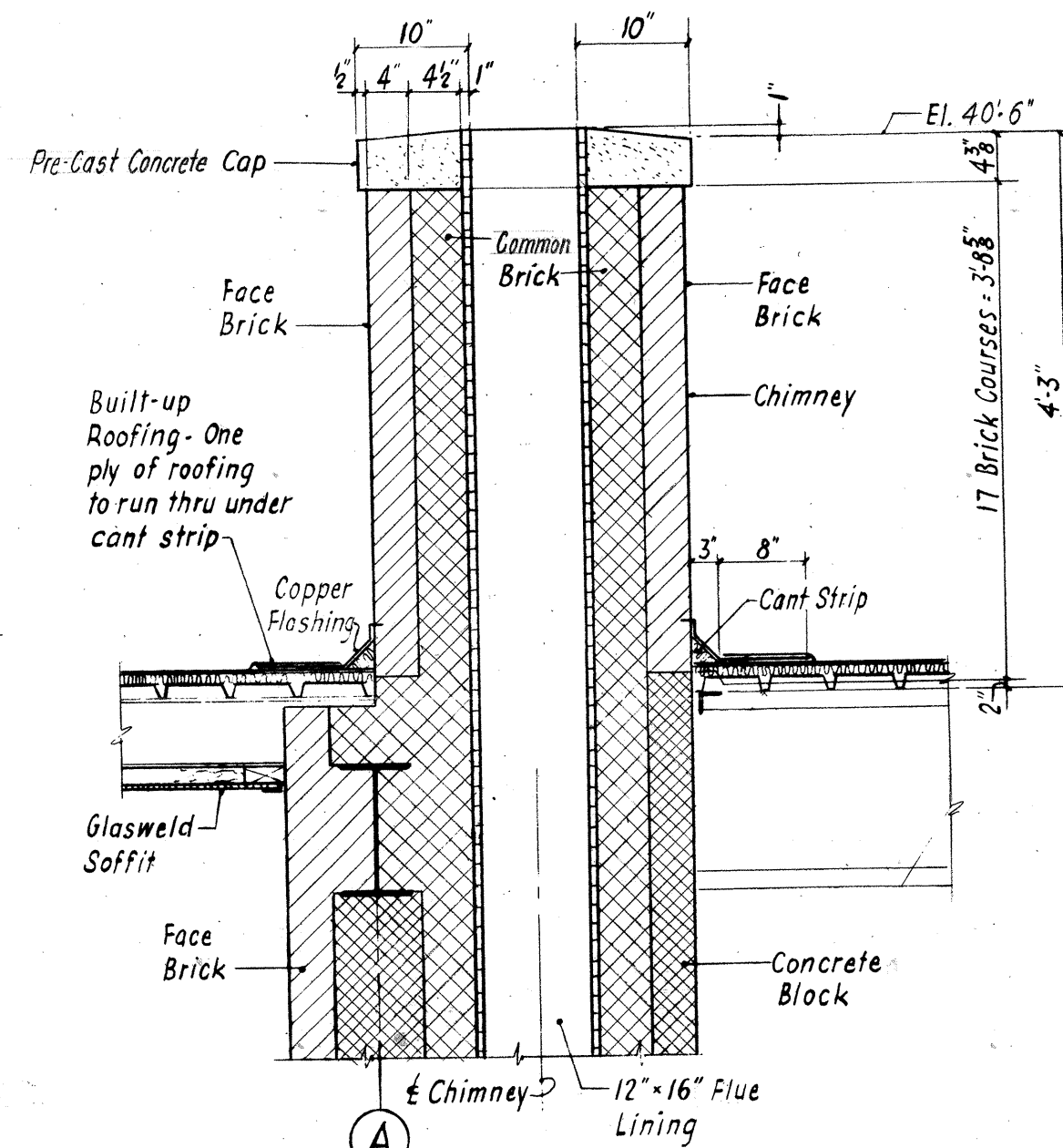
Scale: 1/8" = 1'-0"

1. Soffit to be set level & flush
2. For Elect. Lighting Fixtures inserted into soffit see Elect. Dwg.



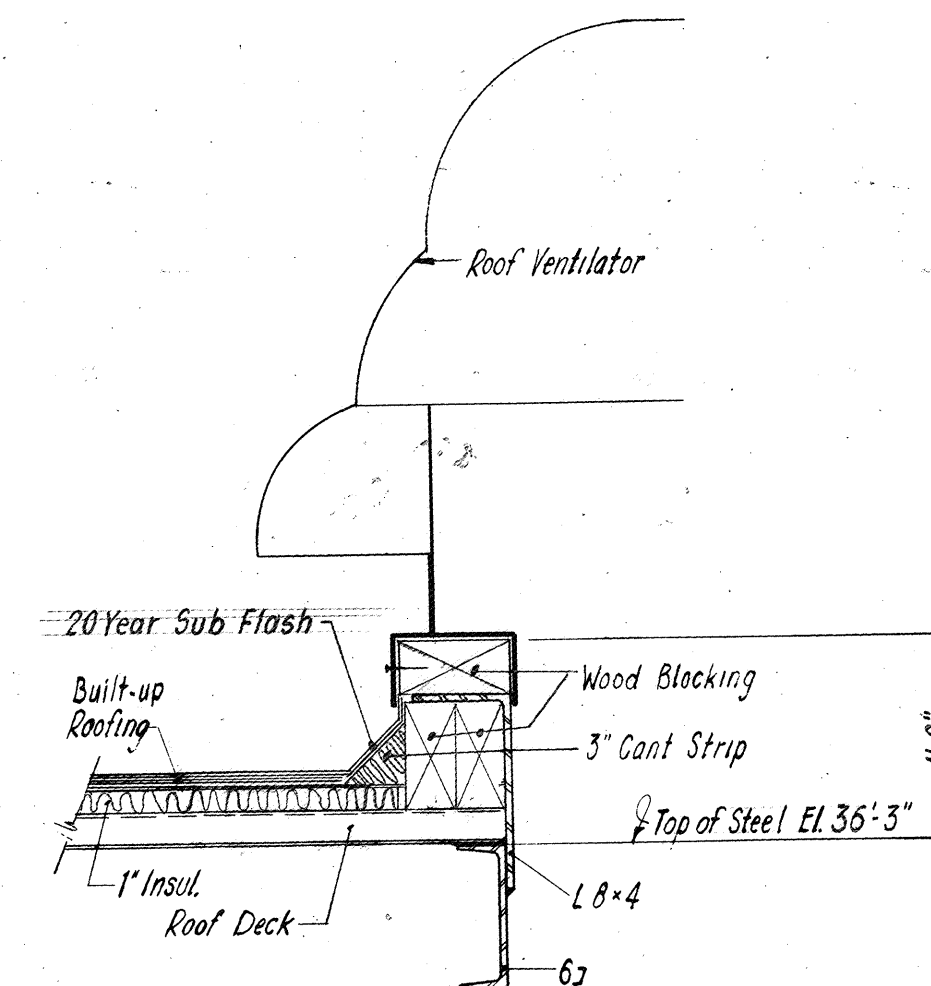
**SECTION a-a**

Scale: 6" = 1'-0"



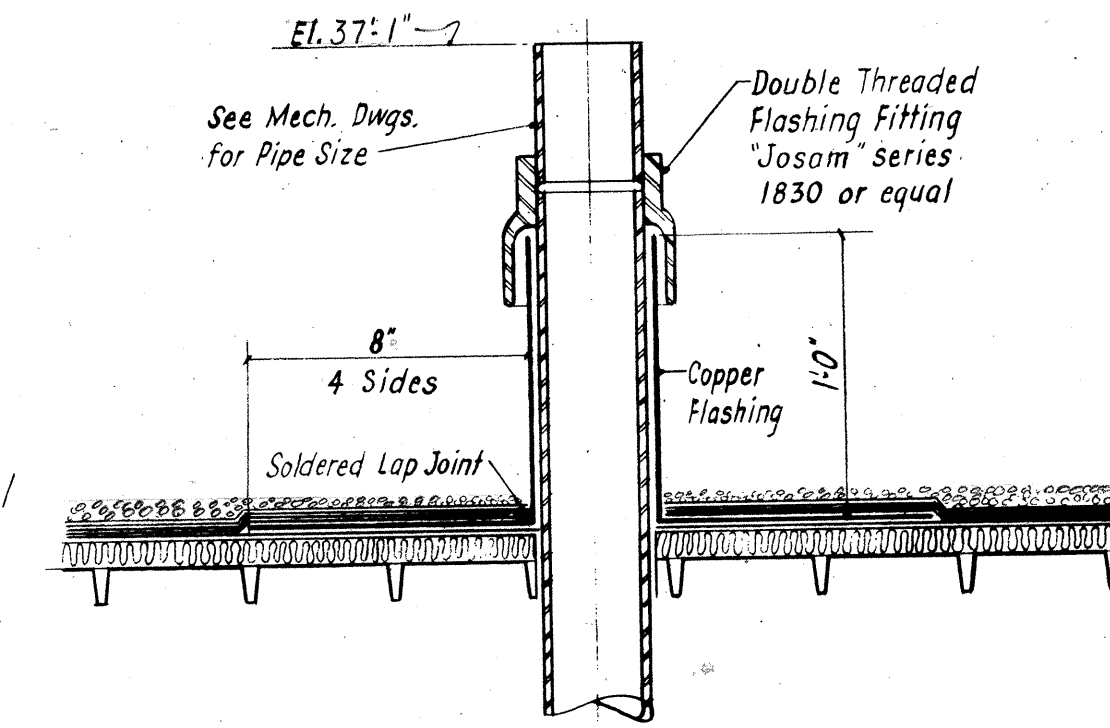
**SECTION b-b**

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



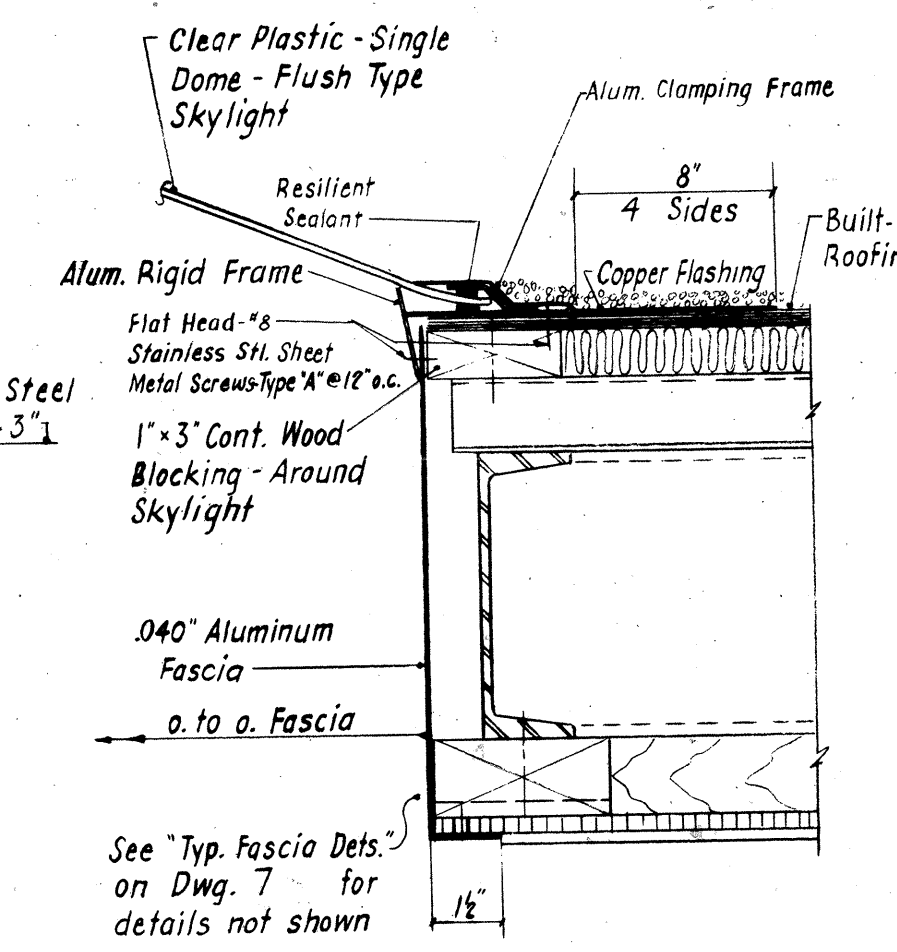
**ROOF VENTILATOR DETAIL**

Scale: 1 1/2" = 1'-0"



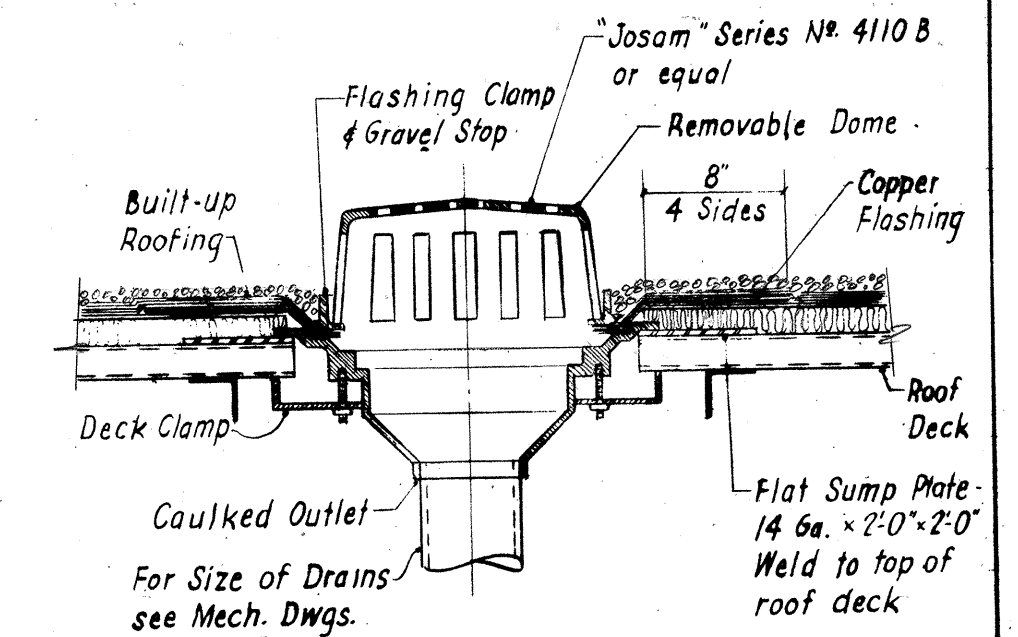
**VENT STACK DETAILS**

Scale: 1 1/2" = 1'-0"



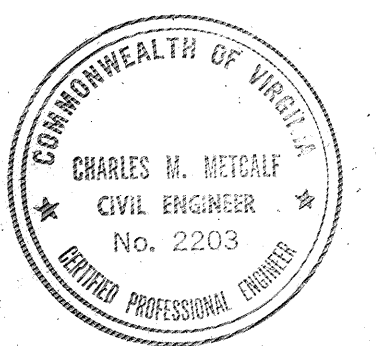
**SECTION c-c**

Scale: 3" = 1'-0"



**TYP. ROOF DRAIN DETAIL**

Scale: 1 1/2" = 1'-0"



COMMONWEALTH OF VIRGINIA  
**CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT**  
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NEW YORK, N. Y.-ST. LOUIS, MO.-NORFOLK, VA.  
**CHESAPEAKE BAY BRIDGE-TUNNEL CROSSING**  
NORTH TOLL PLAZA  
TOLL OFFICE BUILDING  
ROOF & SOFFIT PLANS & DETAILS

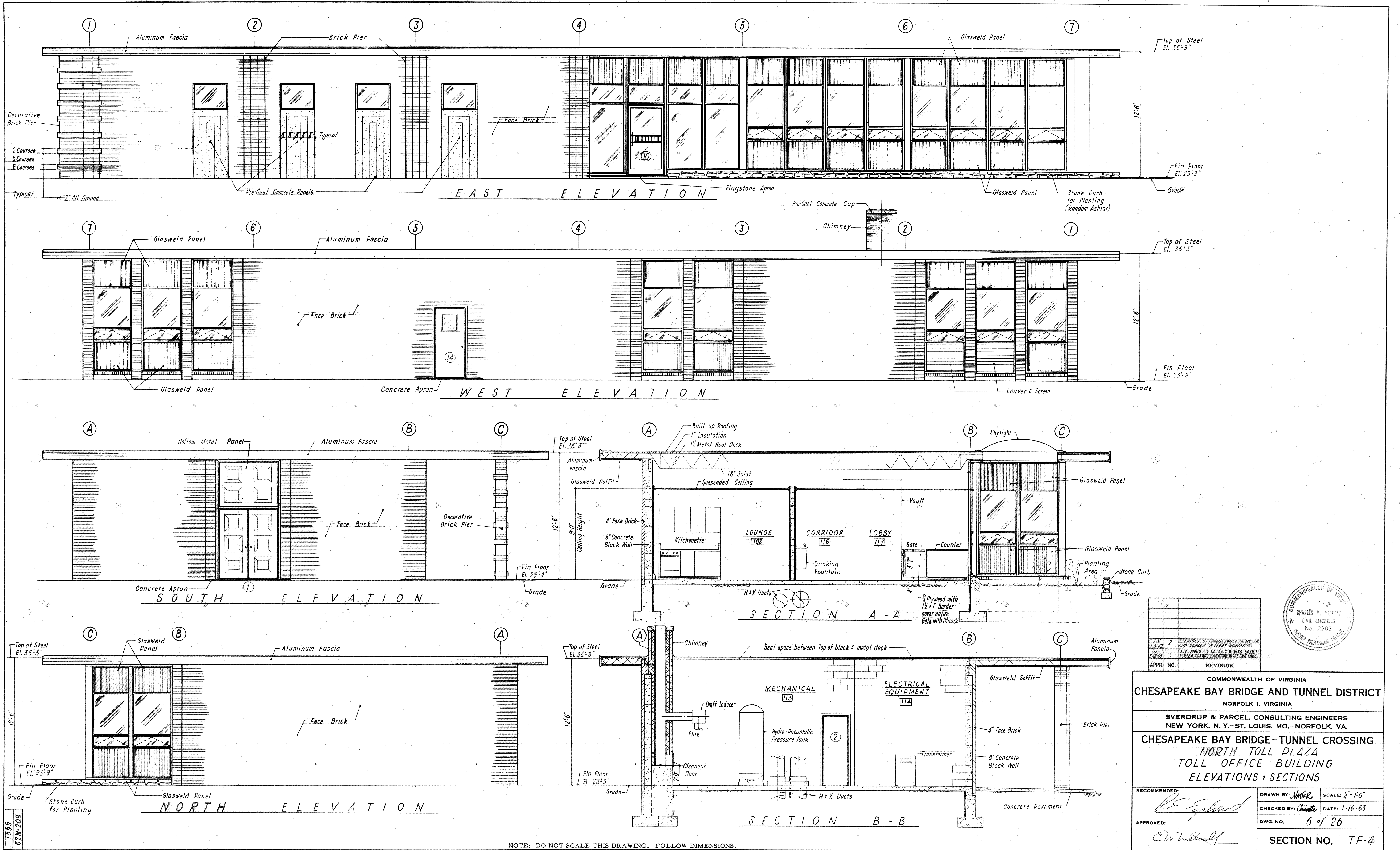
|       |     |                                 |               |
|-------|-----|---------------------------------|---------------|
| G.C.  | 2   | 8-14-64                         | AS BUILT      |
| REV.  | 1   | REV. FIREBRICK, LIMESTONE CAP 2 | ROOFING COVER |
| APPR. | NO. | REVISION                        |               |

RECOMMENDED:  
*[Signature]*  
APPROVED:  
*[Signature]*

DRAWN BY: *[Signature]* SCALE: AS NOTED  
CHECKED BY: *[Signature]* DATE: 1-16-63  
DWG. NO. 5 of 26  
SECTION NO. TF-4

NOTE: DO NOT SCALE THIS DRAWING. FOLLOW DIMENSIONS.

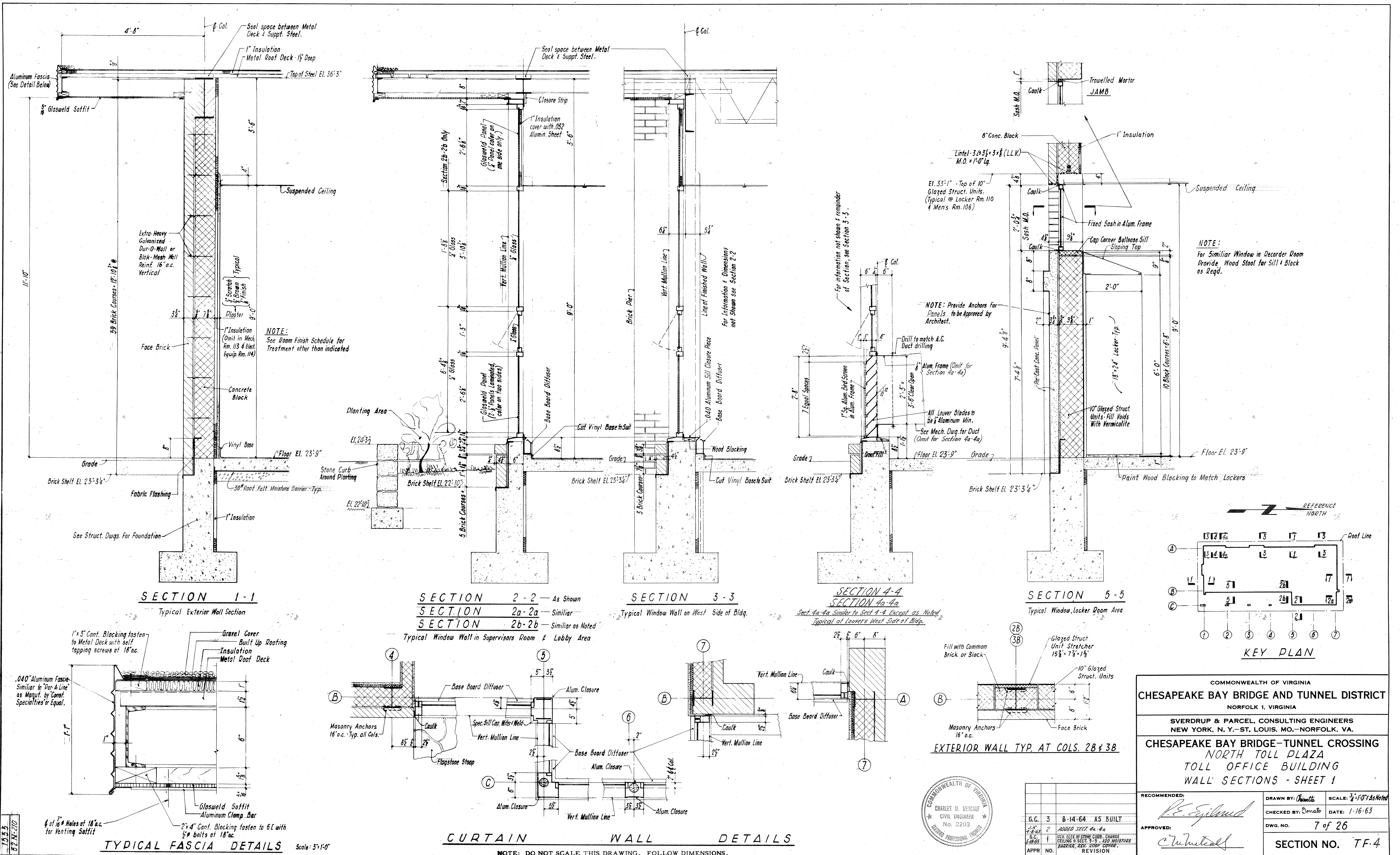
AS BUILT



NOTE: DO NOT SCALE THIS DRAWING. FOLLOW DIMENSIONS.

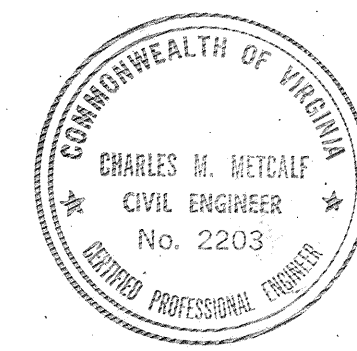
|  |  |
|--|--|
| COMMONWEALTH OF VIRGINIA<br>CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT<br>NORFOLK 1, VIRGINIA<br>SVERDRUP & PARCEL, CONSULTING ENGINEERS<br>NEW YORK, N. Y. - ST. LOUIS, MO. - NORFOLK, VA.<br>CHESAPEAKE BAY BRIDGE-TUNNEL CROSSING<br>NORTH TOLL PLAZA<br>TOLL OFFICE BUILDING<br>ELEVATIONS & SECTIONS |  |
| RECOMMENDED:<br><i>E.E. Englund</i><br>APPROVED:<br><i>C. W. Metcalf</i>   | DRAWN BY: <i>Mike</i><br>CHECKED BY: <i>Chante</i><br>DWG. NO. 6 of 26<br>SCALE: 1/4" = 1'-0"<br>DATE: 1-16-63<br>SECTION NO. TF-4 |

| NO. | REVISION   |
|-----|--|
| 1   | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 2   | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 3   | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 4   | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 5   | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 6   | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 7   | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 8   | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 9   | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
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| 12  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 13  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 14  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 15  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 16  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 17  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 18  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 19  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 20  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 21  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 22  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
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| 25  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 26  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 27  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 28  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 29  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 30  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 31  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 32  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 33  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 34  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
| 35  | CHANGED GLASWELD PANEL TO LOUVER AND SCREEN IN WEST ELEVATION. |
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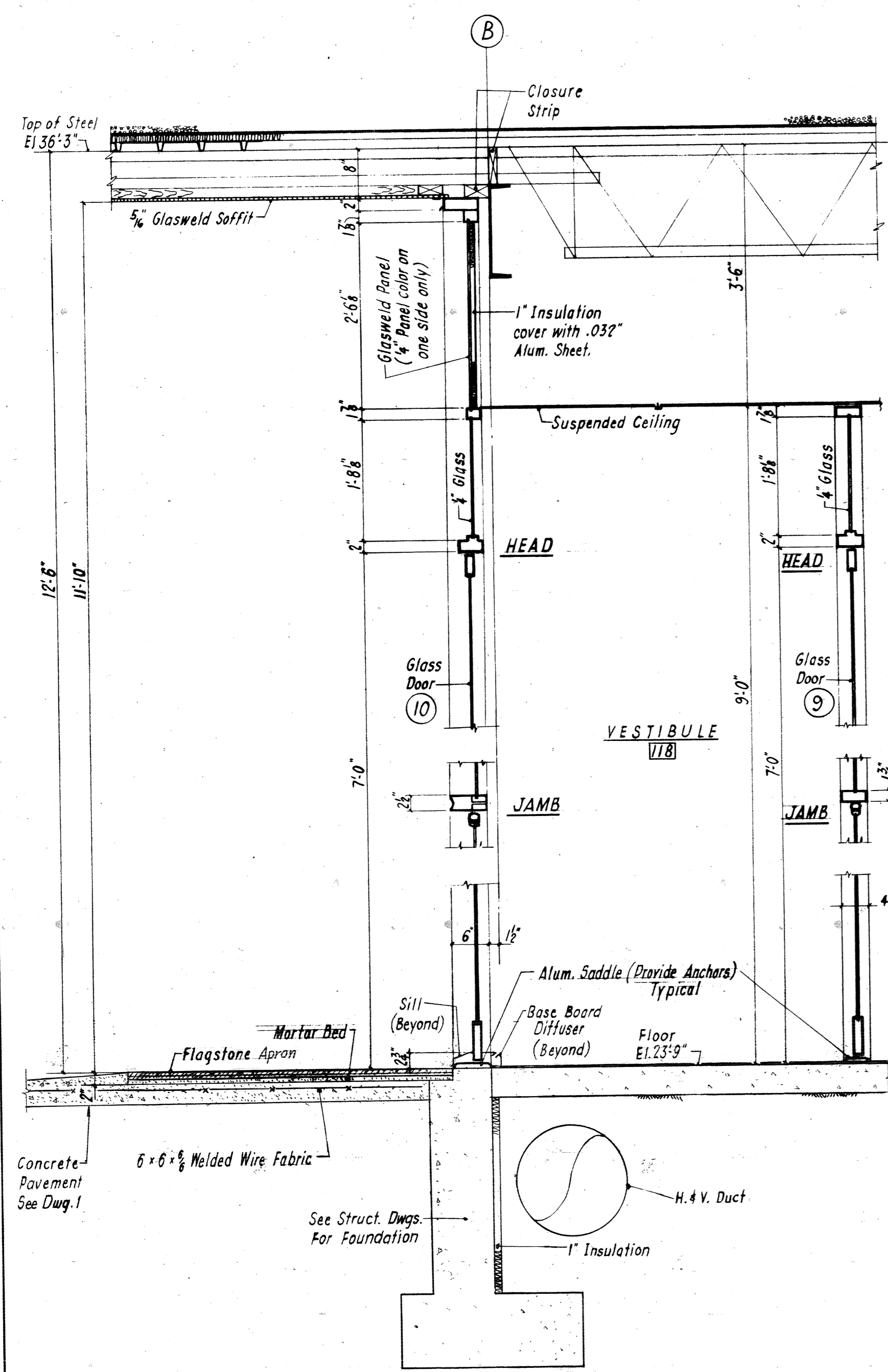


|   |                            |
|---|----------------------------|
| COMMONWEALTH OF VIRGINIA<br><b>CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT</b><br>NORFOLK 1, VIRGINIA                 |                            |
| SVDRUP & PARCEL, CONSULTING ENGINEERS<br>NEW YORK, N. Y. - ST. LOUIS, MO. - NORFOLK, VA.                            |                            |
| <b>CHESAPEAKE BAY BRIDGE-TUNNEL CROSSING</b><br>NORTH TOLL PLAZA<br>TOLL OFFICE BUILDING<br>WALL SECTIONS - SHEET 1 |                            |
| RECOMMENDED:<br><i>R.E. Eiland</i>  | SCALE: 3/4"=1'-0" As Noted |
| CHECKED BY: <i>Demato</i>   | DATE: 1-16-63              |
| DWG. NO. 7 of 26  | SECTION NO. TF-4           |

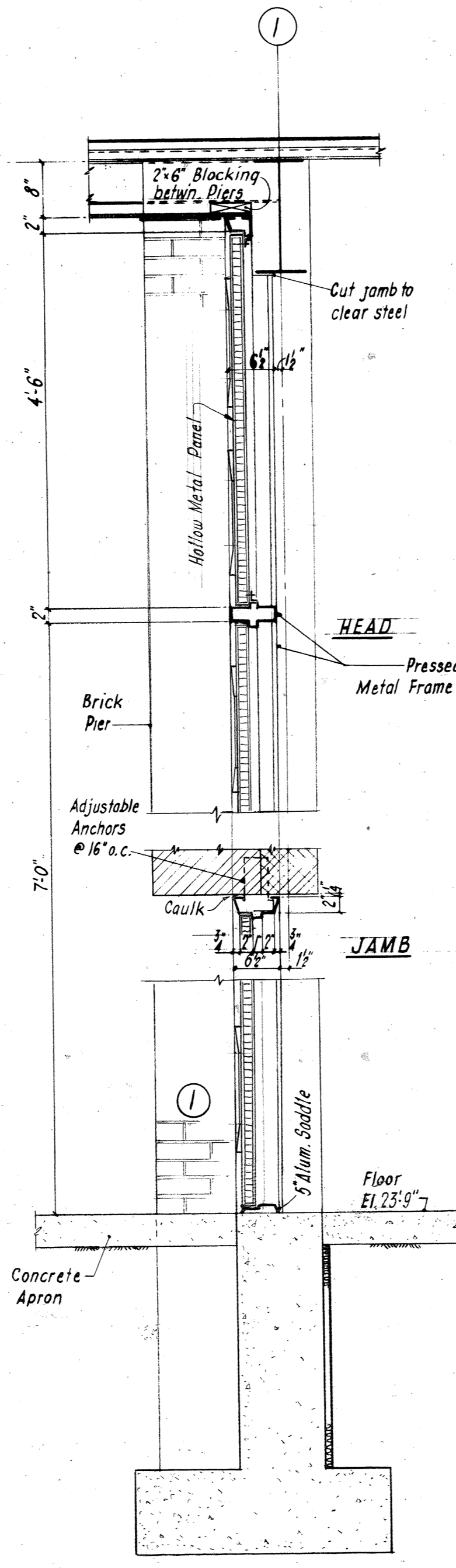
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|-------|-----|------------------------------|----------|
| G.C.  | 3   | 8-14-64                      | AS BUILT |
| A.E.  | 2   | ADDED SECT. 4a-4a            |          |
| G.C.  | 1   | REVIEWED FOR TYPING, CHANGES |          |
| APPR. | NO. | REVISION                     |          |



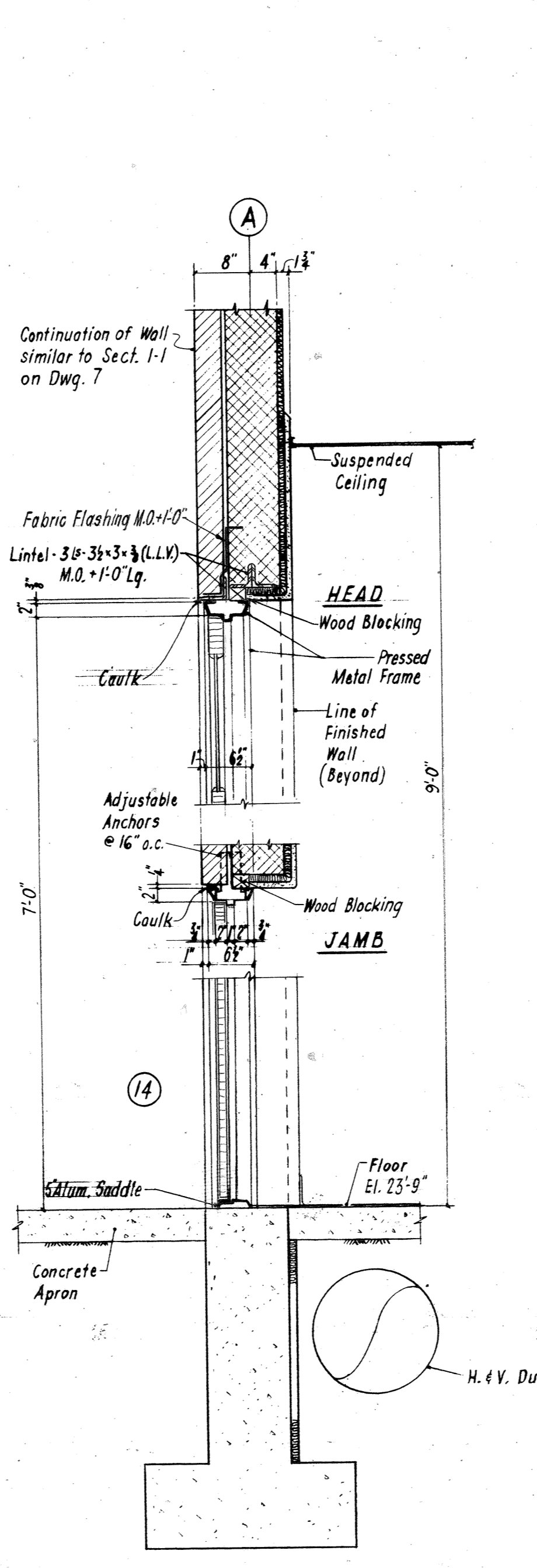
AS BUILT



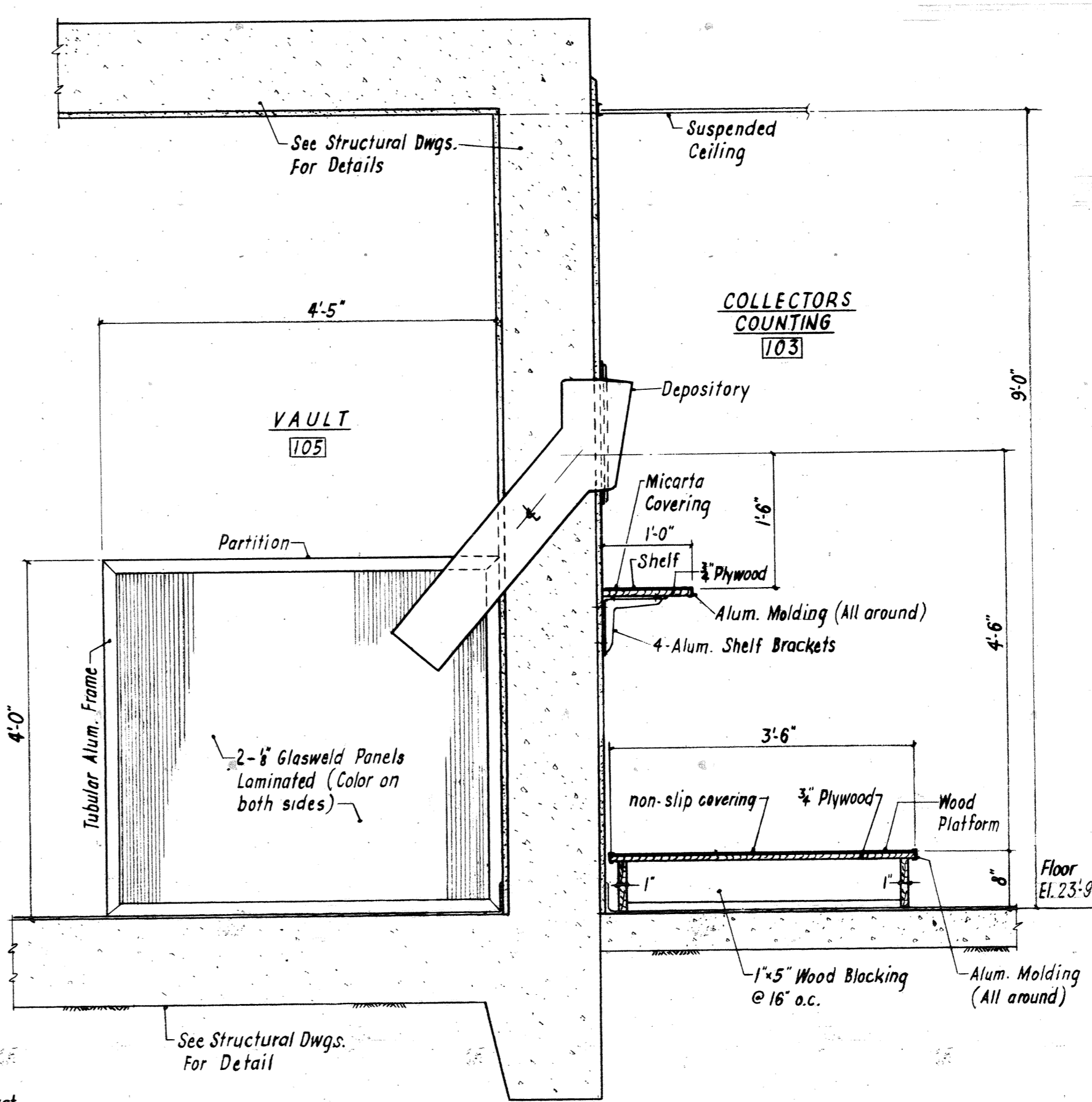
SECTION 6-6  
Section at Main Entrance



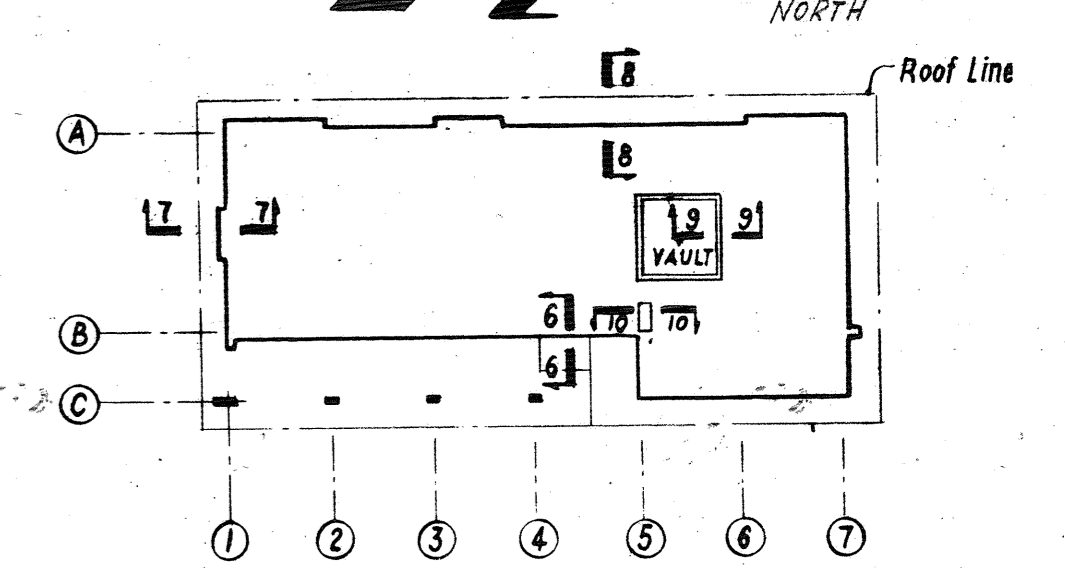
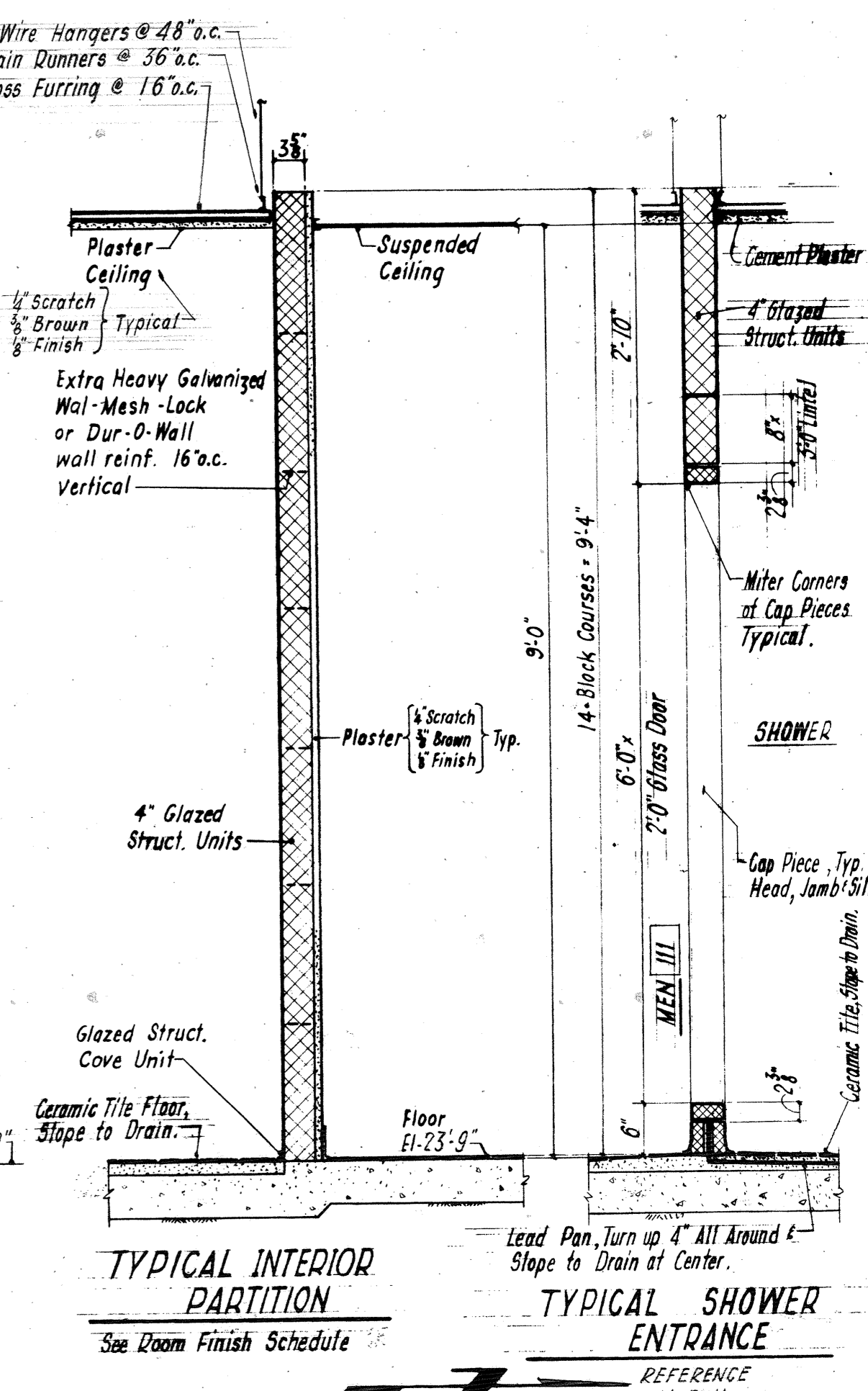
SECTION 7-7  
Section at South Entrance



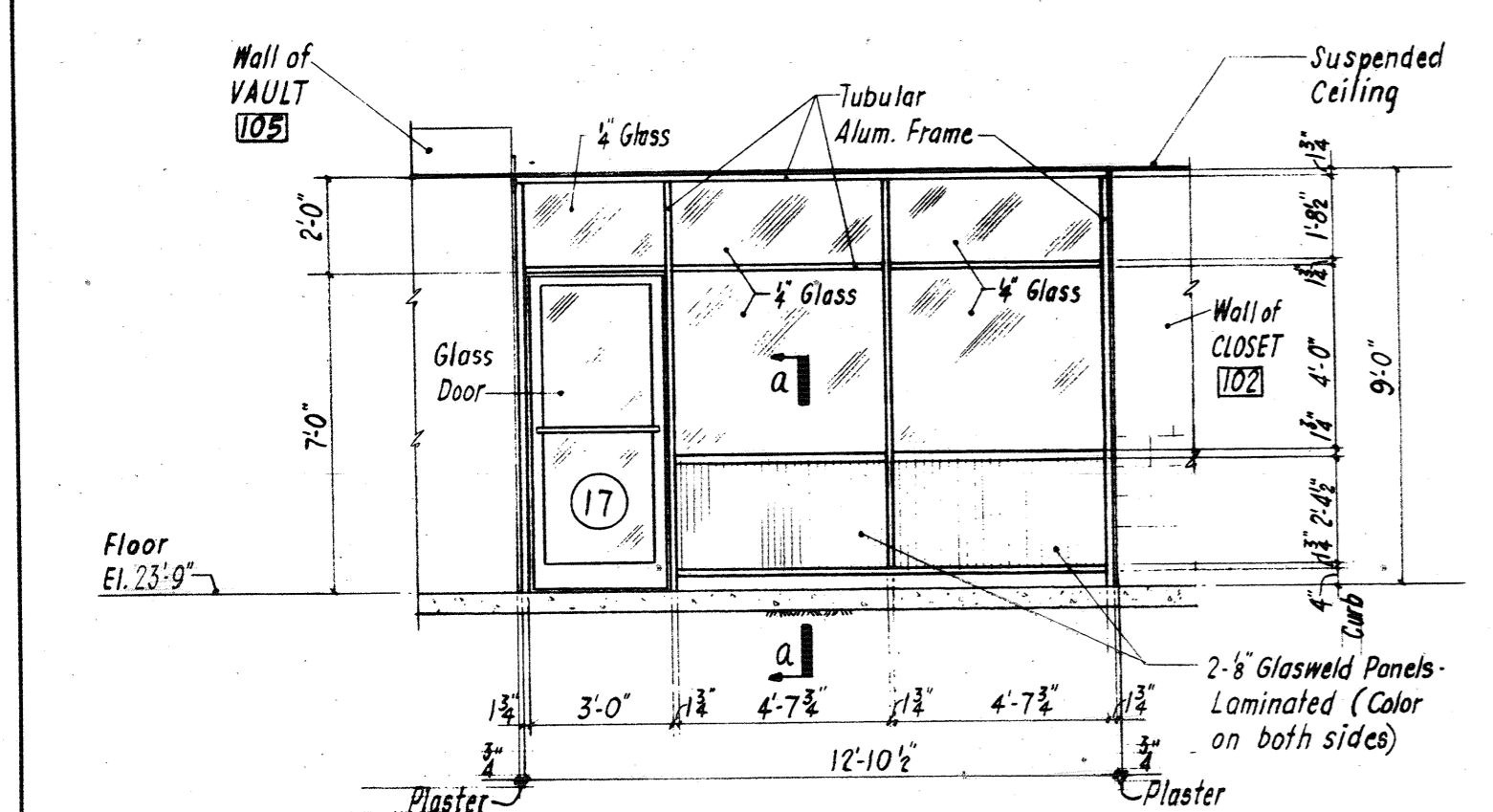
SECTION 8-8  
Section at West Entrance



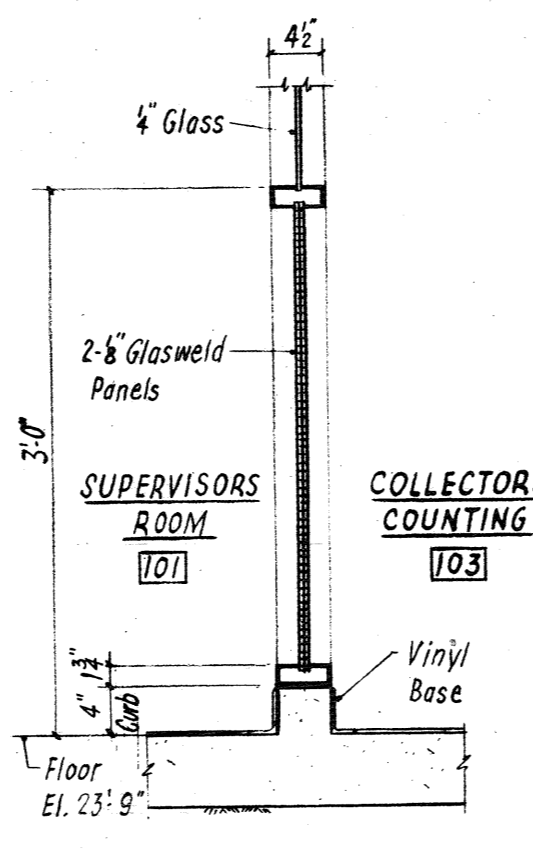
SECTION 9-9  
Typical at Vault Depositories



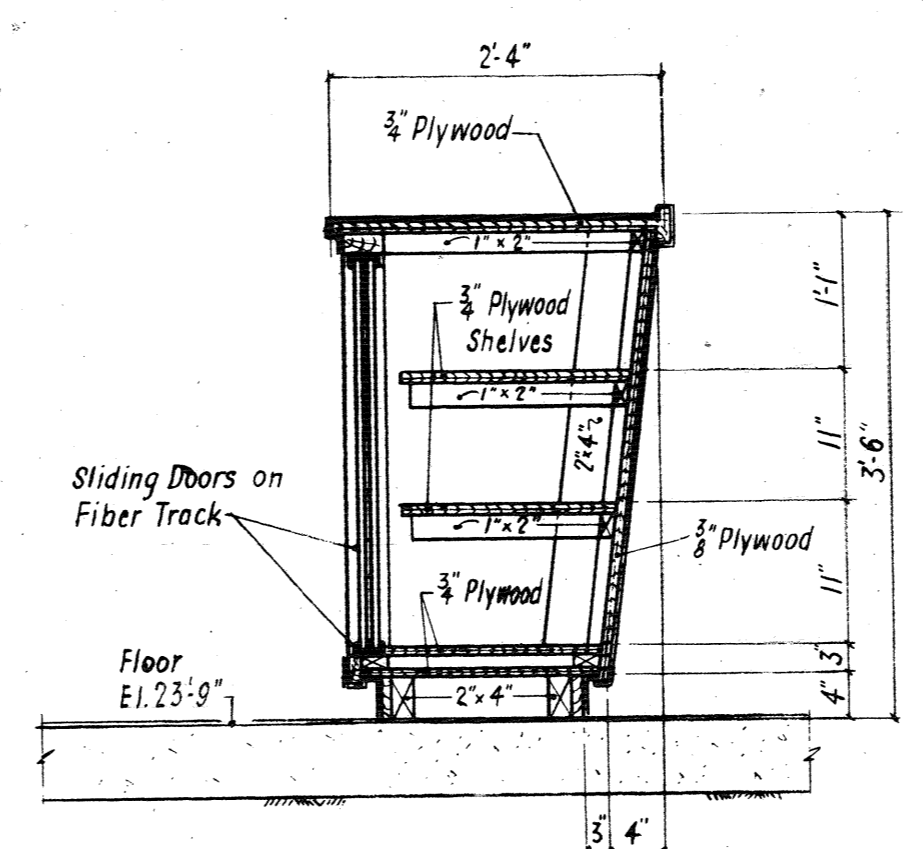
KEY PLAN



SECTION C-C (DWG. 4)  
Section at glass wall between  
Supervisors Room & Collectors Counting

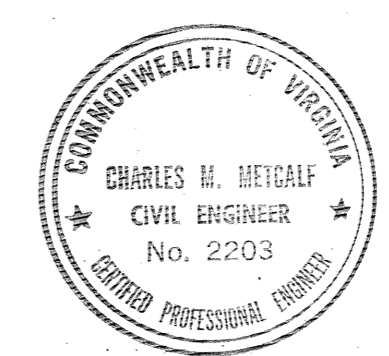


SECTION a-a  
See Section C-C this dwg.



SECTION 10-10  
Section at Counter in Supervisors Room

NOTE:  
Provide anchorage for all tubular framed partitions



| REVISION | DATE    | BY     | APPR. |
|----------|---------|--------|-------|
| 1        | 1-16-63 | W.H.T. |       |
| 2        |         |        |       |
| 3        |         |        |       |
| 4        |         |        |       |
| 5        |         |        |       |
| 6        |         |        |       |
| 7        |         |        |       |
| 8        |         |        |       |
| 9        |         |        |       |
| 10       |         |        |       |

COMMONWEALTH OF VIRGINIA  
CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT  
NORFOLK 1, VIRGINIA

SVERDRUP & PARCEL, CONSULTING ENGINEERS  
NEW YORK, N. Y. - ST. LOUIS, MO. - NORFOLK, VA.

CHESAPEAKE BAY BRIDGE-TUNNEL CROSSING  
NORTH TOLL PLAZA  
TOLL OFFICE BUILDING  
WALL SECTIONS - SHEET 2

RECOMMENDED: *R.E. Edmond*  
APPROVED: *R.W. Hittell*





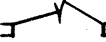
DRAWN BY: *W.H.T.*  
CHECKED BY: *D.W.H.*  
DWG. NO. 8 of 26

SCALE: 3/4" = 1'-0" AS NOTED  
DATE: 1-16-63

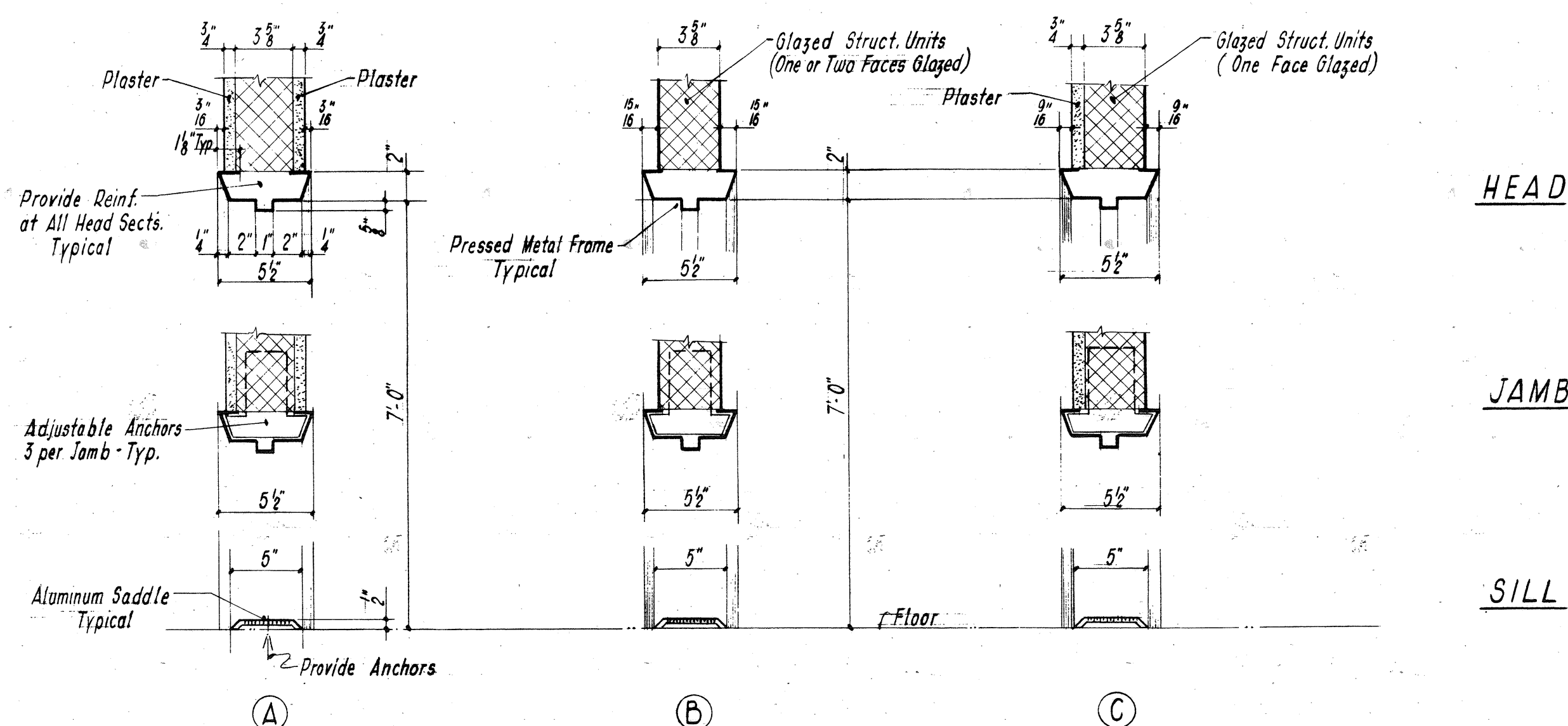
SECTION NO. TF-4

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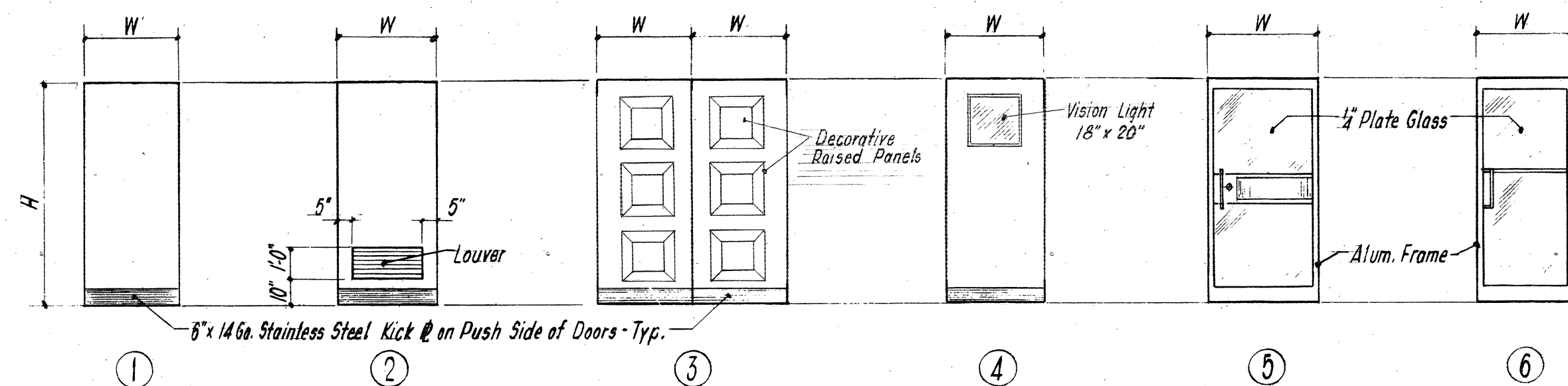
| DOOR SCHEDULE |                           |       |       |        |                            |                    |
|---------------|---------------------------|-------|-------|--------|----------------------------|--------------------|
| DOOR No       | LOCATION                  | SIZE  |       | DOOR   | HEAD, JAMB AND SILL DETAIL | REMARKS            |
|               |                           | "W"   | "H"   |        |                            |                    |
| 1             | MECHANICAL (ENTRANCE)     | 3'-0" | 7'-0" | 1 1/2" | Swing                      | Double Doors       |
| 2             | MECHANICAL                | 2'-6" | 7'-0" | 1 1/2" | Hollow Metal               |                    |
| 3             | LOCKER ROOM               | 2'-6" | 7'-0" | 1 1/2" |                            |                    |
| 4             | MEN                       | 3'-0" | 7'-0" | 1 1/2" |                            |                    |
| 5             | LOCKER ROOM               | 3'-0" | 7'-0" | 1 1/2" |                            |                    |
| 6             | CORRIDOR                  | 3'-0" | 7'-0" | 1 1/2" |                            |                    |
| 7             | LOUNGE                    | 3'-0" | 7'-0" | 1 1/2" |                            |                    |
| 8             | RECORDED                  | 3'-0" | 7'-0" | 1 1/2" |                            |                    |
| 9             | VESTIBULE (MAIN ENTRANCE) | 3'-6" | 7'-0" | 1 1/2" | Glass in Alum. Frame       | See Dwg. 8         |
| 10            | VESTIBULE (MAIN ENTRANCE) | 3'-6" | 7'-0" | 1 1/2" | Glass in Alum. Frame       | See Dwg. 8         |
| 11            | CORRIDOR                  | 3'-0" | 7'-0" | 1 1/2" | Hollow Metal               |                    |
| 12            | WOMEN                     | 2'-6" | 7'-0" | 1 1/2" |                            |                    |
| 13            | MEN                       | 2'-6" | 7'-0" | 1 1/2" |                            |                    |
| 14            | CORRIDOR (ENTRANCE)       | 3'-0" | 7'-0" | 1 1/2" |                            | See Dwg. 8         |
| 15            | STORAGE                   | 2'-6" | 7'-0" | 1 1/2" | Hollow Metal               |                    |
| 16            | STORAGE                   | 2'-6" | 7'-0" | 1 1/2" | Hollow Metal               |                    |
| 17            | COLLECTORS COUNTING       | 3'-0" | 7'-0" | 1 1/2" | Glass in Alum. Frame       | See Dwg. 5         |
| 18            | CLOSET                    | 2'-6" | 7'-0" | 1 1/2" | Hollow Metal               |                    |
| 19            | VAULT                     | 2'-6" | 7'-0" | 1 1/2" |                            | SEE SPECIFICATIONS |
| 20            | JANITOR                   | 2'-6" | 7'-0" | 1 1/2" | Hollow Metal               |                    |

| HARDWARE SCHEDULE |  |   |   |   |   |  |       |        |        |         |                   |        |        |  | REMARKS |                    |
|-------------------|--|---|---|---|---|--|-------|--------|--------|---------|-------------------|--------|--------|--|---------|--------------------|
| DOOR<br>No        | DOOR SWING   |   |   |   |   |  | HINGE | LOCK A | LOCK B | LATCH C | FLUSH<br>EXTENDER | CLOSER | KICK D |  |         |                    |
|                   |  LH |  RH |  LH RB |  RH RB |  DOUBLE RH |  |       |        |        |         |                   |        |        |  |         |                    |
| 1                 |  |   |   |   |   |  |       |        |        |         |                   |        |        |  |         |                    |
| 2                 | •  |   |   |   |   |  | •     |        | •      |         |                   | •      | •      |  |         |                    |
| 3                 |  | •   |   |   |   |  | •     |        |        | •       |                   | •      | •      |  |         |                    |
| 4                 | •  |   |   |   |   |  | •     |        |        | •       |                   | •      | •      |  |         |                    |
| 5                 | •  |   |   |   |   |  | •     |        |        | •       |                   | •      | •      |  |         |                    |
| 6                 |  | •   |   |   |   |  | •     |        |        | •       |                   | •      | •      |  |         |                    |
| 7                 |  | •   |   |   |   |  | •     |        |        | •       |                   | •      | •      |  |         |                    |
| 8                 | •  |   |   |   |   |  | •     |        | •      |         |                   | •      | •      |  |         |                    |
| 9                 |  |   |   | •   |   |  |       |        |        |         |                   |        |        |  |         | DO NOT MASTER KEY  |
| 10                |  |   |   | •   |   |  |       |        |        |         |                   |        |        |  |         | SEE SPECIFICATIONS |
| 11                |  | •   |   |   |   |  | •     | •      |        |         |                   | •      | •      |  |         |                    |
| 12                |  | •   |   |   |   |  | •     |        | •      |         |                   | •      | •      |  |         |                    |
| 13                | •  |   |   |   |   |  | •     |        | •      |         |                   | •      | •      |  |         |                    |
| 14                |  |   | •   |   |   |  |       | •      |        |         |                   | •      | •      |  |         |                    |
| 15                |  | •   |   |   |   |  | •     |        |        | •       |                   |        | •      |  |         |                    |
| 16                | •  |   |   |   |   |  | •     |        | •      |         |                   |        | •      |  |         |                    |
| 17                | •  |   |   |   |   |  |       |        |        |         |                   |        |        |  |         | SEE SPECIFICATIONS |
| 18                |  |   |   | •   |   |  | •     |        |        | •       |                   |        |        |  |         |                    |
| 19                |  |   |   | •   |   |  |       |        |        |         |                   |        |        |  |         | SEE SPECIFICATIONS |
| 20                |  |   |   | •   |   |  | •     |        |        | •       |                   |        | •      |  |         |                    |

| ROOM FINISH SCHEDULE |                      |                |              |            |                     |                        |                     |         |                |         |                  |   |  |  |  | REMARKS          |
|----------------------|----------------------|----------------|--------------|------------|---------------------|------------------------|---------------------|---------|----------------|---------|------------------|---|--|--|--|------------------|
| ROOM No              | ROOM NAMES           | FLOOR          |              | BASE       |                     | WALLS                  |                     | CEILING |                |         |                  |   |  |  |  |                  |
|                      |                      | VINYL CONCRETE | CERAMIC TILE | VINYL COVE | GLAZED STRUCT. COVE | PLASTER CONCRETE BLOCK | GLAZED STRUCT. UNIT | HEIGHT  | PLASTER        | ACUSTIC | PLASTER ON CONC. |   |  |  |  |                  |
| 101                  | SUPERVISORS ROOM     | •              |              |            | •                   |                        | •                   |         | 9 <sup>±</sup> | •       |                  |   |  |  |  |                  |
| 102                  | CLOSET               | •              |              |            | •                   |                        | •                   |         |                | •       |                  |   |  |  |  |                  |
| 103                  | COLLECTORS COUNTING  | •              |              |            | •                   |                        | •                   |         |                |         | •                |   |  |  |  |                  |
| 104                  | STORAGE              | •              |              |            | •                   |                        | •                   |         |                |         | •                |   |  |  |  |                  |
| 105                  | VAULT                | •              |              |            | •                   |                        | •                   |         |                |         | •                |   |  |  |  |                  |
| 106                  | MEN                  |                | •            |            | •                   |                        |                     | •       |                | •       |                  |   |  |  |  | See Note 2 below |
| 107                  | WOMEN                |                | •            |            | •                   |                        |                     | •       |                | •       |                  |   |  |  |  |                  |
| 108                  | LOUNGE               | •              |              |            | •                   |                        | •                   |         |                |         | •                |   |  |  |  |                  |
| 109                  | RECORDER             | •              |              |            | •                   |                        | •                   |         |                |         | •                |   |  |  |  |                  |
| 110                  | LOCKER ROOM          | •              |              |            | •                   |                        |                     |         |                |         | •                |   |  |  |  | See Note 2 below |
| 111                  | MEN                  |                | •            |            | •                   |                        | •                   |         |                | •       |                  |   |  |  |  |                  |
| 112                  | JANITOR              | •              |              |            | •                   |                        | •                   |         | 9 <sup>±</sup> | •       |                  |   |  |  |  |                  |
| 113                  | MECHANICAL           |                | •            |            |                     |                        | •                   |         |                | —       | —                |   |  |  |  |                  |
| 114                  | ELECTRICAL EQUIPMENT |                | •            |            |                     |                        | •                   |         |                | —       | —                | — |  |  |  |                  |
| 115                  | CORRIDOR             | •              |              |            | •                   |                        | •                   |         | 9 <sup>±</sup> |         | •                |   |  |  |  |                  |
| 116                  | CORRIDOR             | •              |              |            | •                   |                        | •                   |         |                | —       |                  |   |  |  |  |                  |
| 117                  | LOBBY                | •              |              |            | •                   |                        | •                   |         |                | —       | •                |   |  |  |  |                  |
| 118                  | VESTIBULE            | •              |              |            | •                   |                        | •                   |         | 9 <sup>±</sup> |         | •                |   |  |  |  |                  |



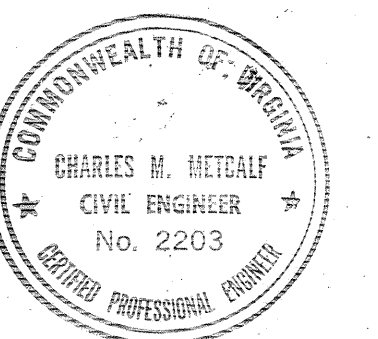
TYPICAL DOOR DETAILS  
Not to Scale



TYPICAL DOOR TYPES  
Not to Scale

NOTES:

- For Description of Hardware see Specifications.
- Exterior Wall in Locker Room 110 & Mens Room 106 to be 10" Glazed Structural Units filled with Vermiculite or Cork.



COMMONWEALTH OF VIRGINIA  
CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT  
NORFOLK 1, VIRGINIA  
SVERDRUP & PARCEL, CONSULTING ENGINEERS  
NEW YORK, N. Y. - ST. LOUIS, MO. - NORFOLK, VA.  
CHESAPEAKE BAY BRIDGE-TUNNEL CROSSING  
NORTH TOLL PLAZA  
TOLL OFFICE BUILDING  
DOOR, HARDWARE & ROOM FINISH SCHEDULES

RECOMMENDED:  
APPROVED:  
DRAWN BY: *Chivette*  
CHECKED BY: *Domeo*  
DATE: 1-16-63  
SCALE: NONE  
DWG. NO. 9 of 26  
SECTION NO. TF-4

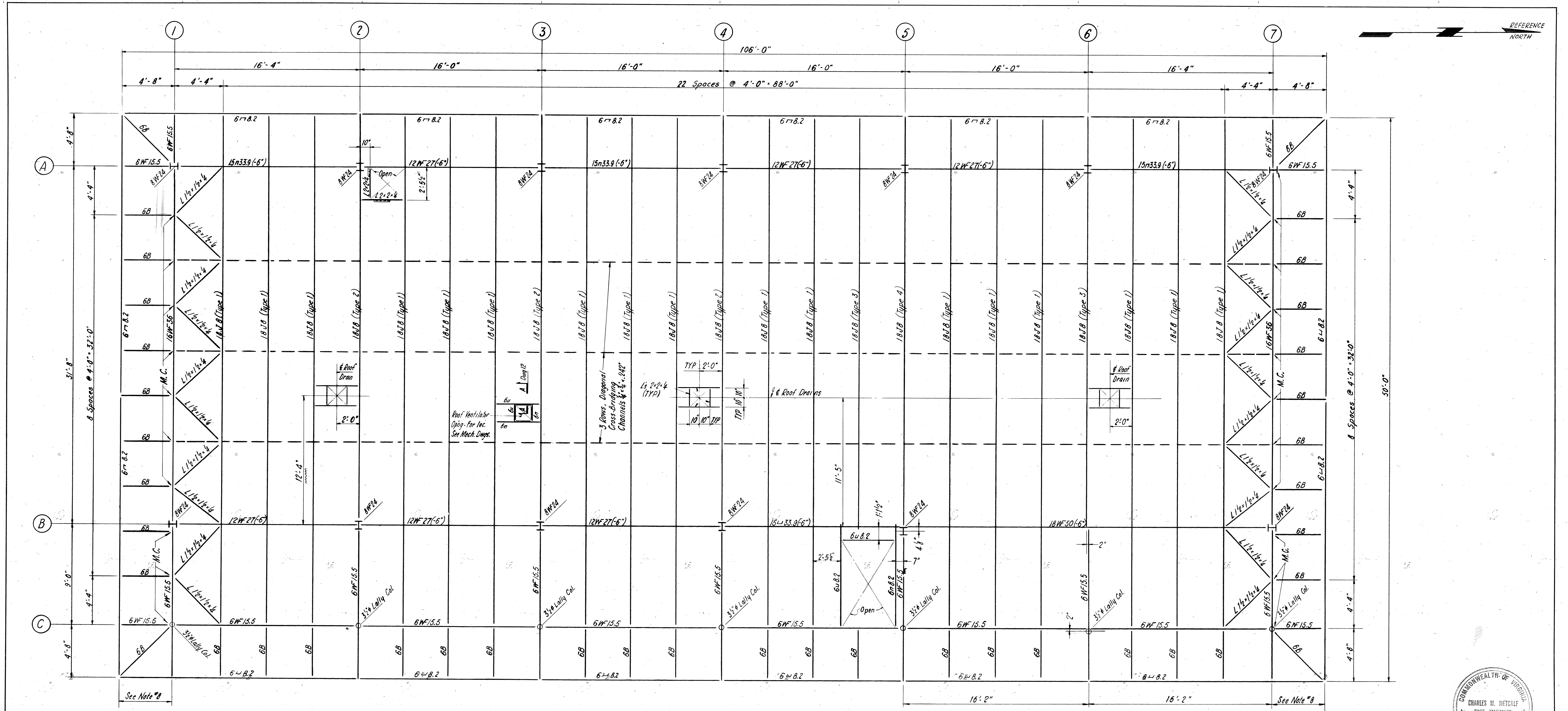
| REV.      | DESCRIPTION   | DATE    |
|-----------|---|---------|
| 1         | REV. DOOR 1, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 | 1-16-63 |
| 2         | CEILING IN LOCKER ROOM                              |         |
| APPR. NO. | REVISION  |         |

DO NOT SCALE THIS DRAWING. FOLLOW DIMENSIONS.

1555  
02N-212

AS BUILT



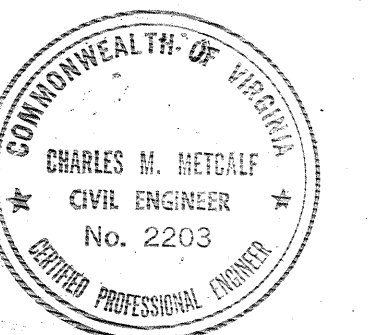


# GENERAL NOTES

- ALL STEEL IS TO BE IN ACCORDANCE WITH THE LATEST AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
- ALL JOISTS ARE TO BE IN ACCORDANCE WITH THE LATEST STEEL JOIST INSTITUTE "STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS."
- ALL WELDING TO BE IN ACCORDANCE WITH THE LATEST AMERICAN WELDING SOCIETY SPECIFICATIONS.
- TOP SURFACE OF STEEL TO BE FREE OF ANY PROJECTIONS WHICH WOULD INTERFERE WITH FLUSH SURFACE REQUIRED FOR METAL ROOF DECKING.
- CONNECTIONS MAY BE BOLTED, WELDED OR RIVETED SUBJECT TO ENGINEER'S APPROVAL. USE 3/4" DIAMETER BOLTS OR RIVETS.
- END ANCHORAGE OF JOISTS TO BE ACCOMPLISHED EITHER BY WELDING OR A 2 BOLT CONNECTION.
- ALL CONNECTIONS MARKED M.C. TO HAVE A MOMENT CONNECTION CAPABLE OF DEVELOPING THE FULL CAPACITY OF THE CANTILEVERED MEMBER.
- THIS CANTILEVERED CANOPY MAY BE SHIPPED AS A SHOP WELDED ASSEMBLY.
- ALL STEEL MEMBERS NOTED AS 6B TO BE 6B12.
- DESIGN LIVE LOAD FOR ROOF = 40 P.S.F.
- FOR STEEL DETAILS, SEE DRAWING NO. 12.
- FOR SIZE AND LOCATION OF PIPE SLEEVES, VENT OPENINGS, DRAINS, ETC., SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
- FURNISH ALL ANCHOR BOLTS WITH ONE WASHER AND HEX NUT UNLESS OTHERWISE NOTED.

## ROOF FRAMING PLAN TOP OF STEEL @ EL. 36'-3" UNLESS NOTED

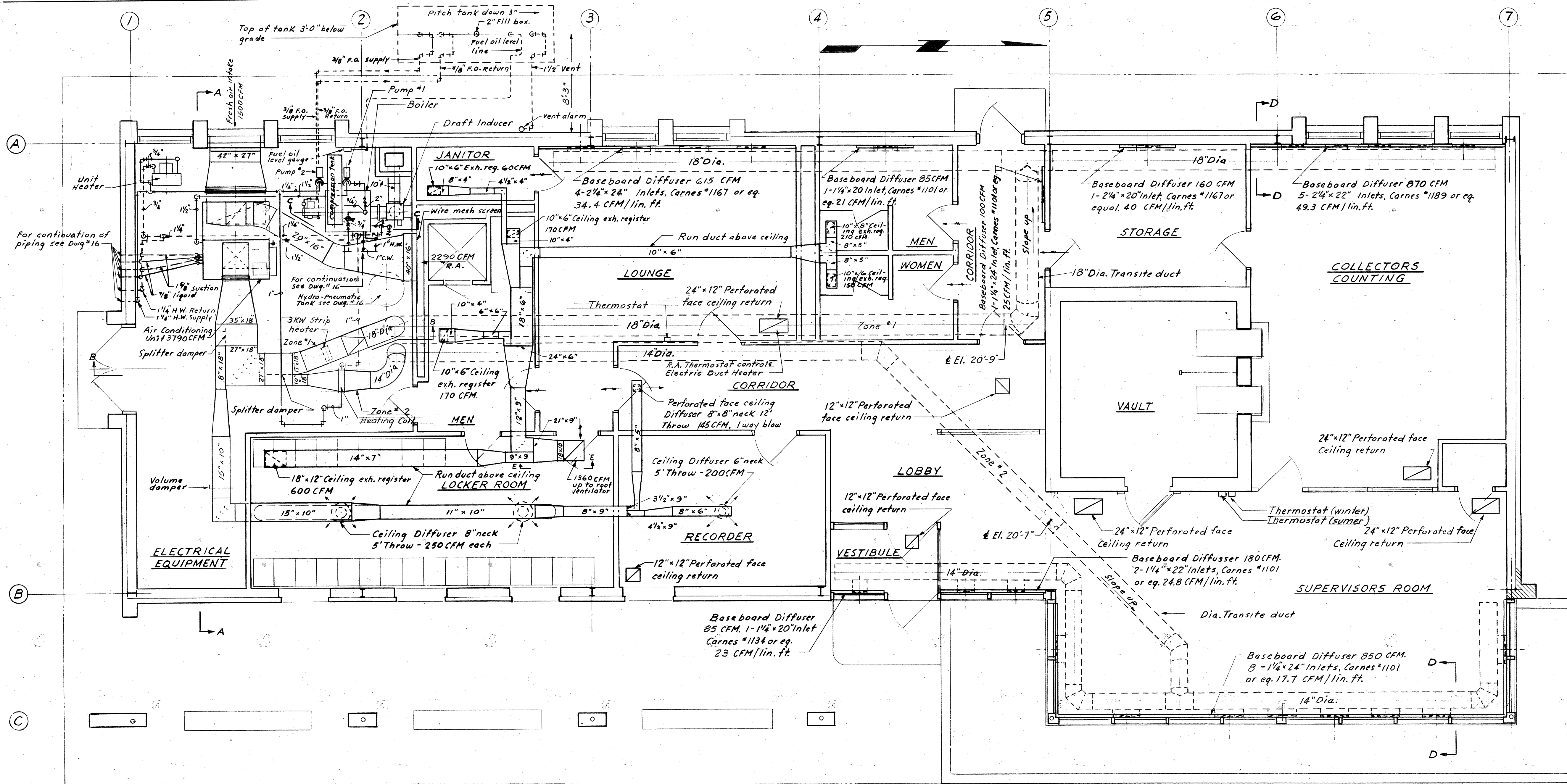
NOTE: DO NOT SCALE THIS DRAWING. FOLLOW DIMENSIONS.



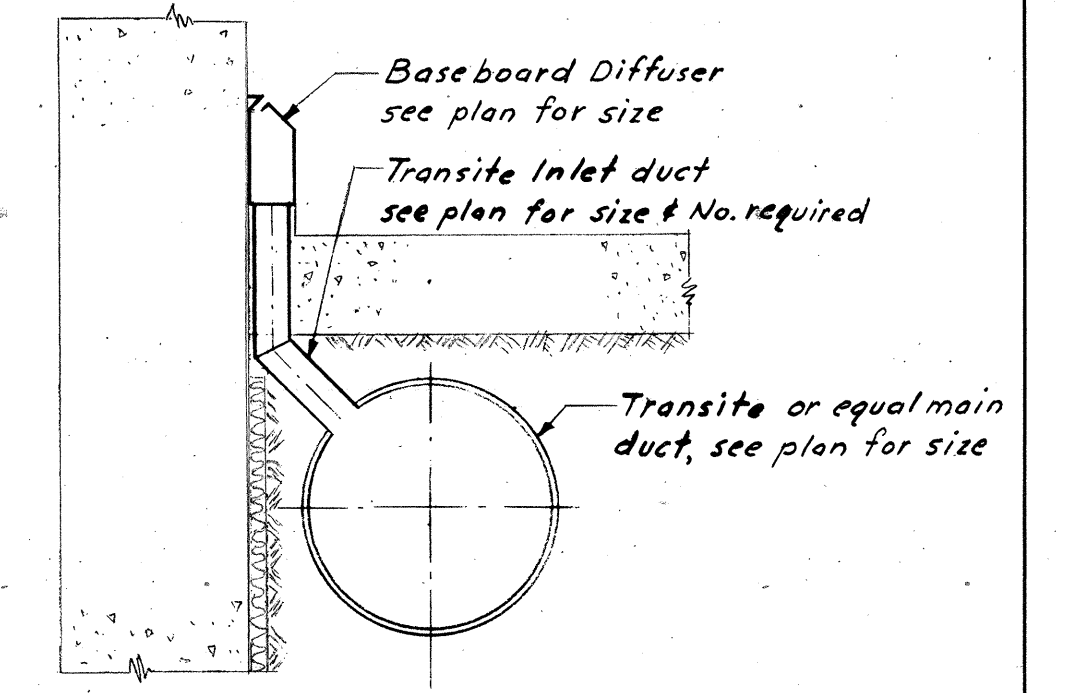
|  |                            |                     |
|--|----------------------------|---------------------|
| COMMONWEALTH OF VIRGINIA   |                            |                     |
| CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT  |                            |                     |
| NORFOLK 1, VIRGINIA  |                            |                     |
| SVERDRUP & PARCEL, CONSULTING ENGINEERS<br>NEW YORK, N. Y. - ST. LOUIS, MO. - NORFOLK, VA.             |                            |                     |
| CHESAPEAKE BAY BRIDGE-TUNNEL CROSSING<br>NORTH TOLL PLAZA<br>TOLL OFFICE BUILDING<br>ROOF FRAMING PLAN |                            |                     |
| RECOMMENDED:<br><i>R.E. Egleston</i>   | DRAWN BY: <i>J. Rivera</i> | SCALE: 1/4" = 1'-0" |
| CHECKED BY: <i>Donato</i>  | DATE: 1-16-65              |                     |
| APPROVED:<br><i>C.M. Hettler</i>   | DWG. NO. 11 of 26          |                     |
| SECTION NO. TF-4   |                            |                     |

1555  
62 N 214

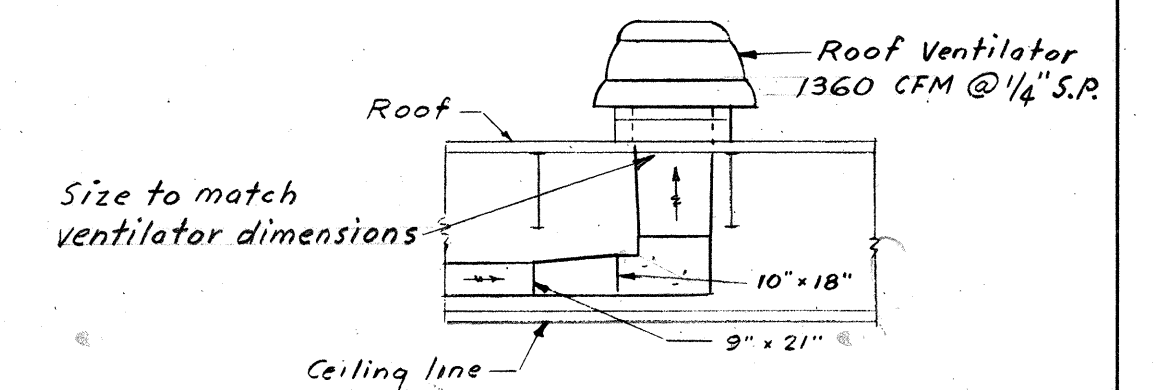




PLAN

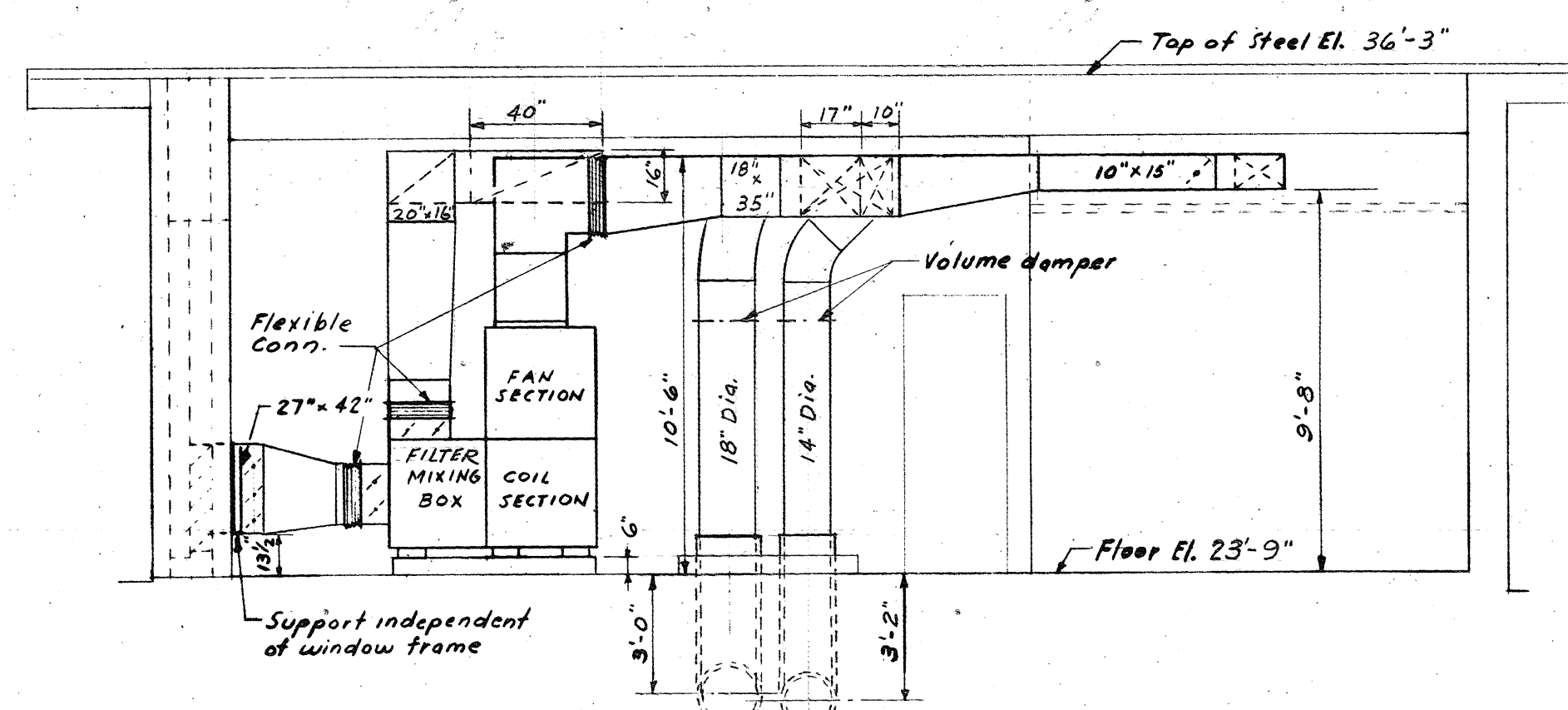


SECTION D-D  
NO SCALE

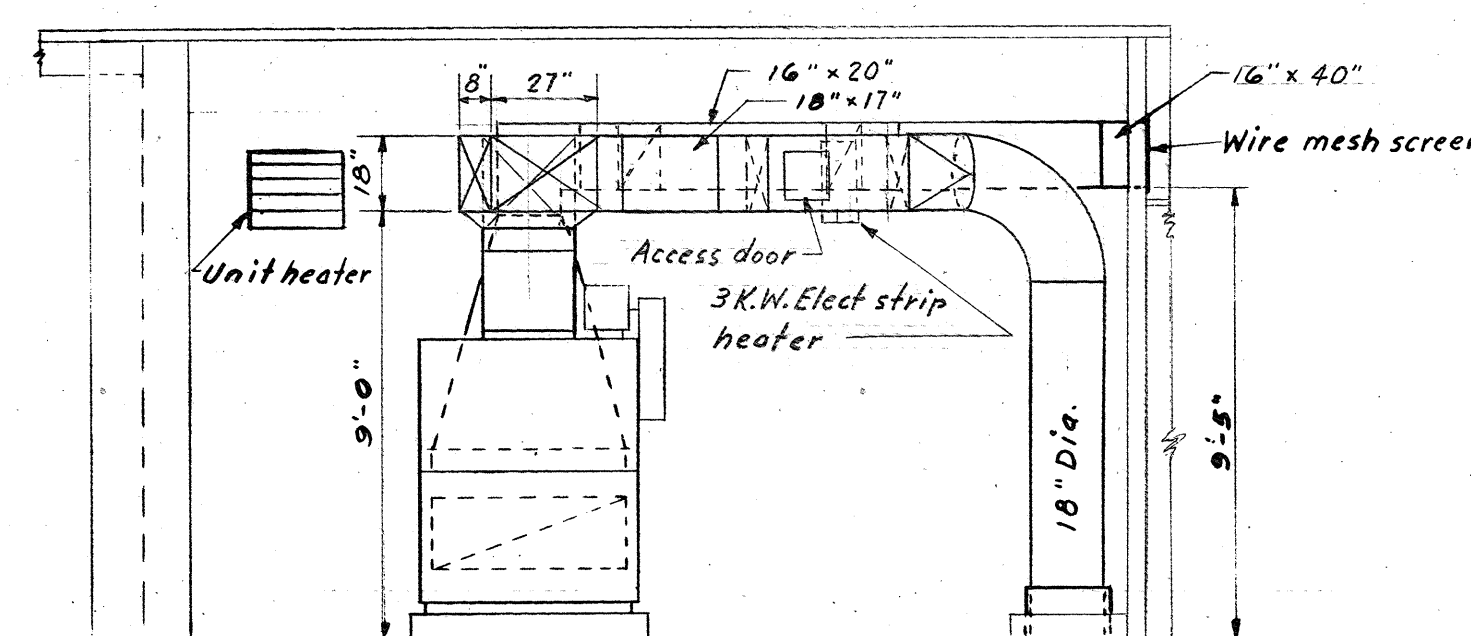


SECTION E-E

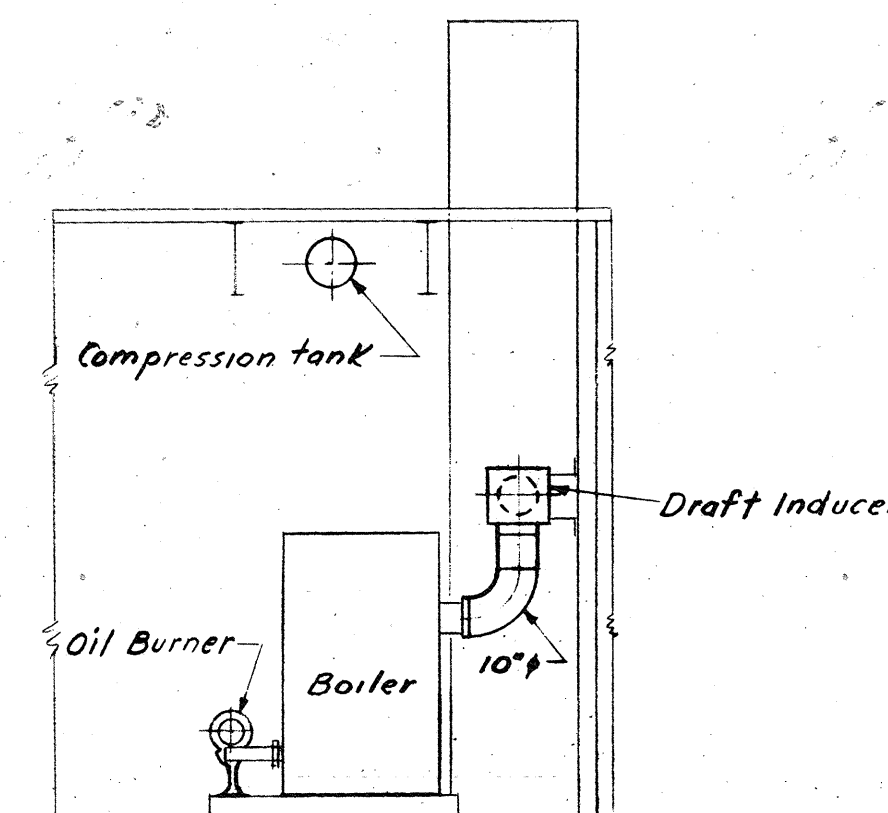
- NOTES:**
1. Work this drawing with drawing #14
  2. For piping diagram see drawing #14
  3. For Tankless Heater piping diagram see drawing #16
  4. Air quantities shown are for cooling cycle only.
  5. Refrigerant piping to be dehydrated, installed and charged with refrigerant in accordance with refrigeration equipment manufacturers recommendations.



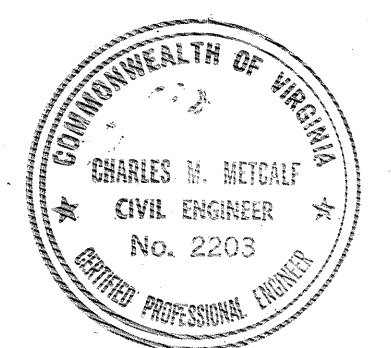
SECTION A-A



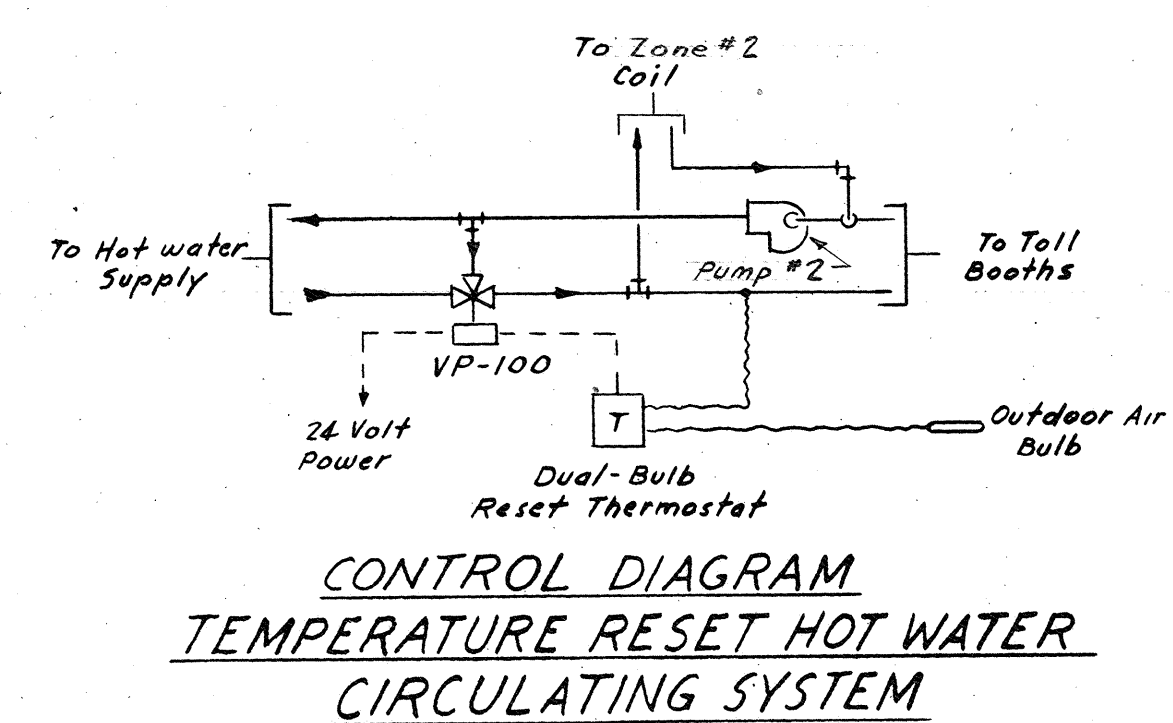
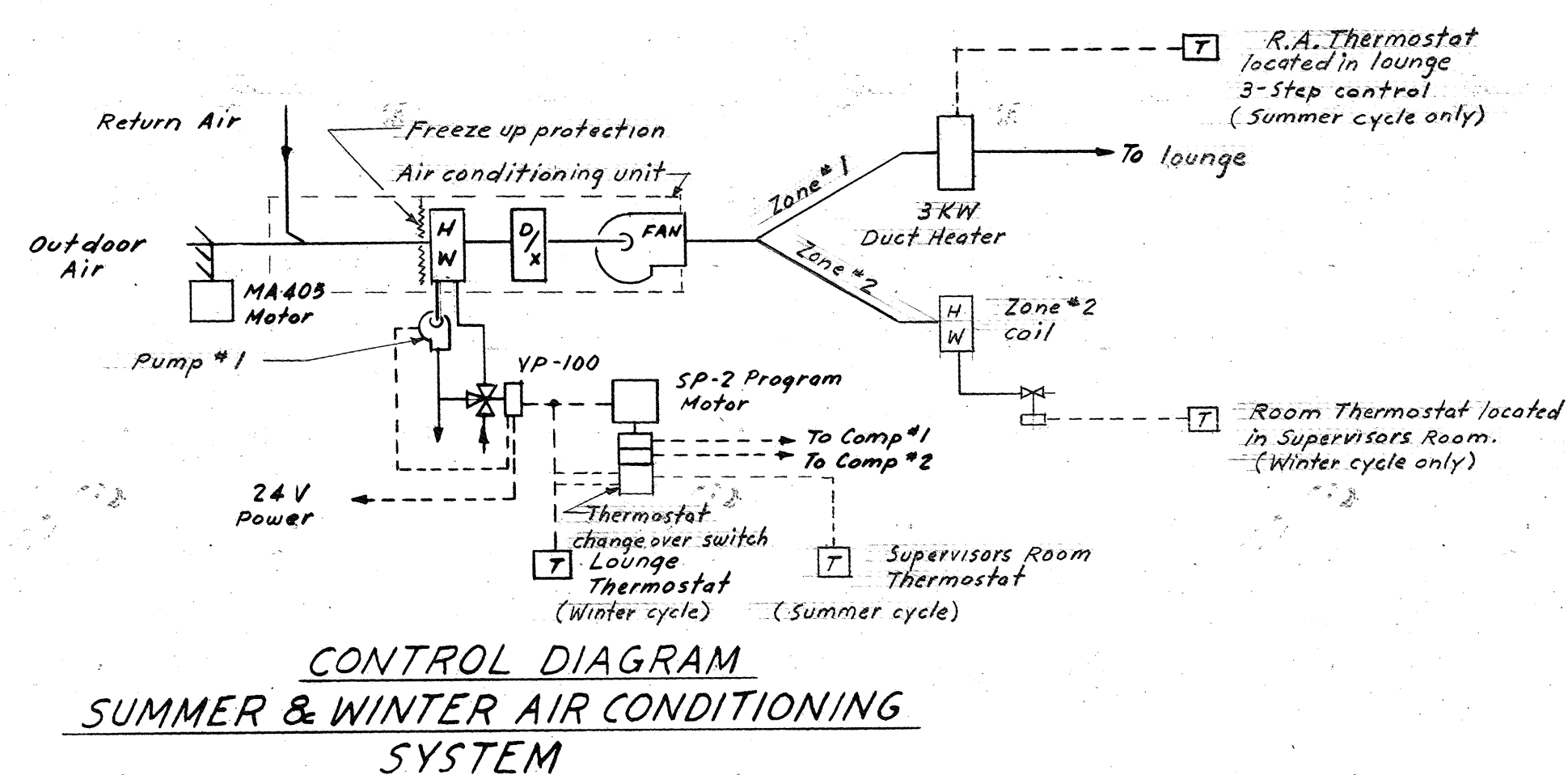
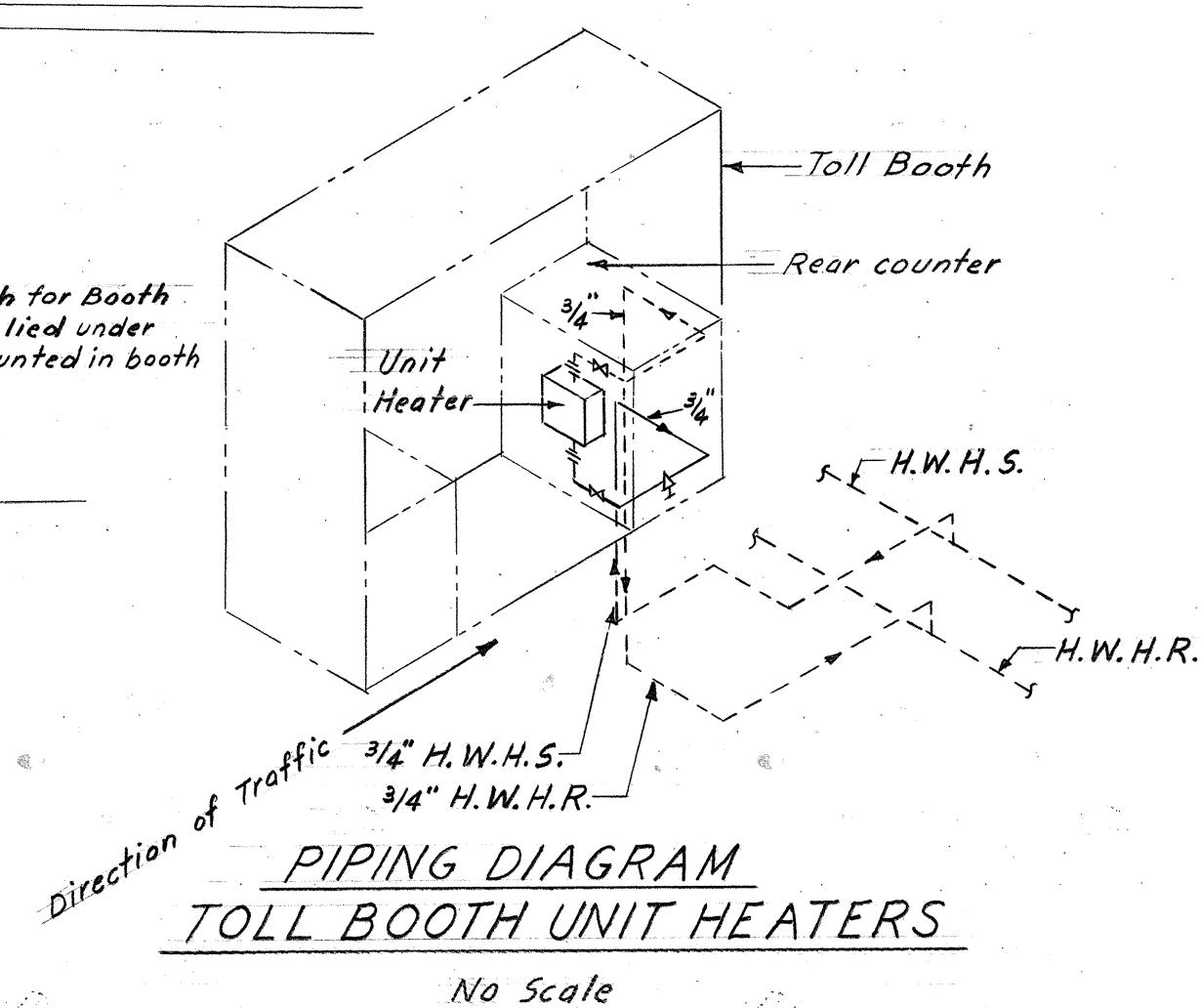
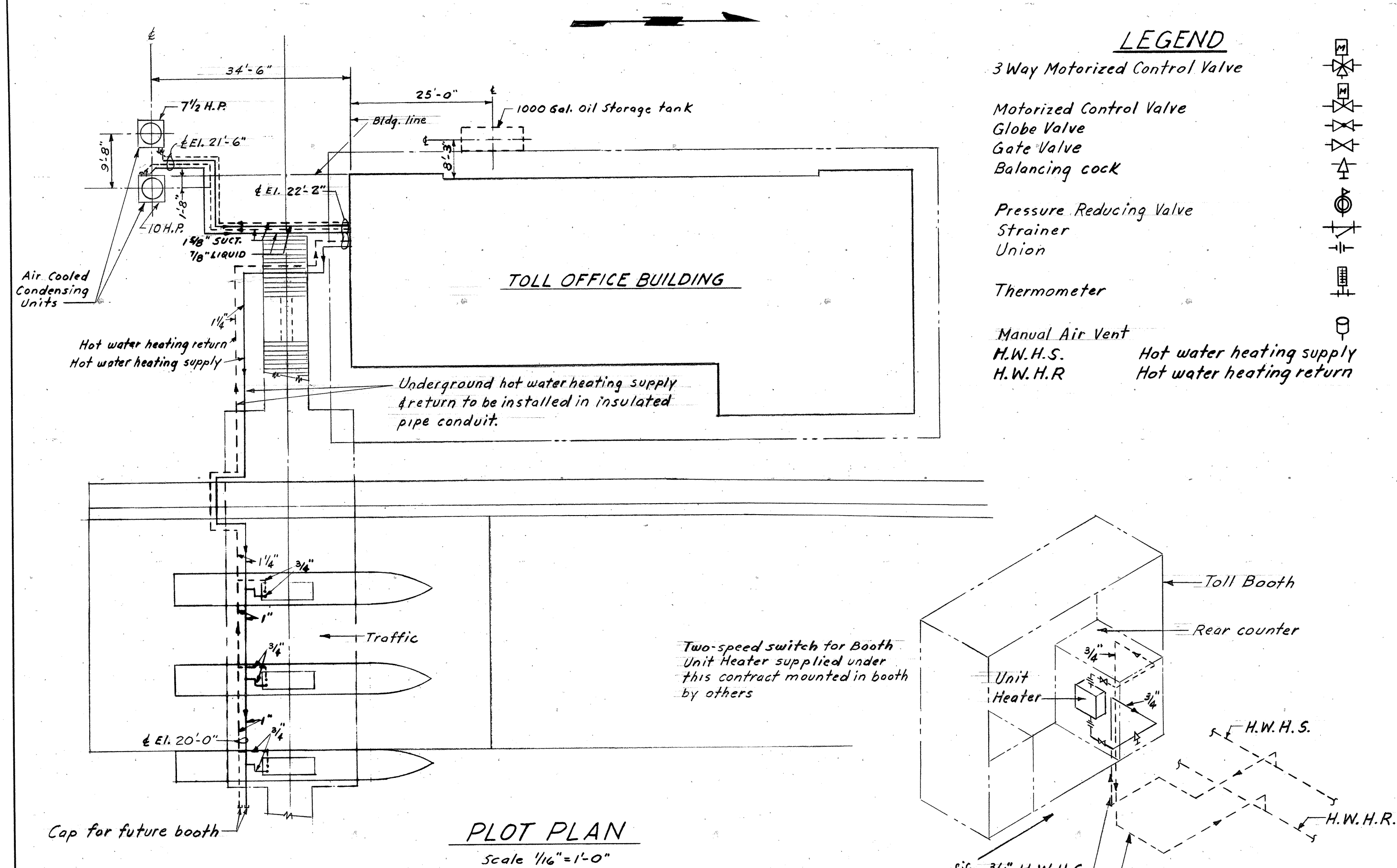
SECTION B-B



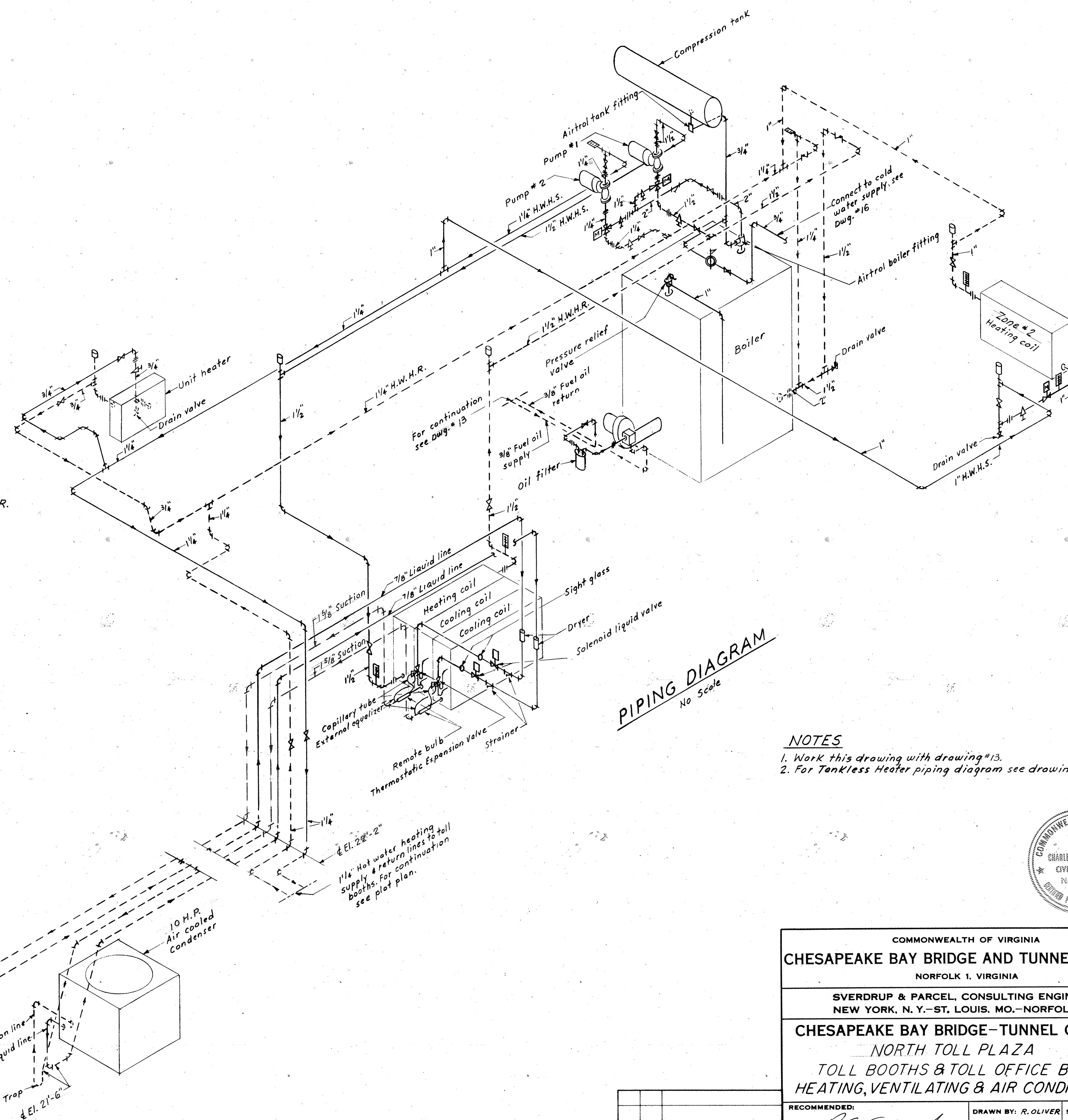
SECTION C-C



|   |                     |                     |
|---|---------------------|---------------------|
| COMMONWEALTH OF VIRGINIA                    |                     |                     |
| CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT   |                     |                     |
| NORFOLK 1, VIRGINIA                         |                     |                     |
| SVERDRUP & PARCEL, CONSULTING ENGINEERS     |                     |                     |
| NEW YORK, N. Y.-ST. LOUIS, MO.-NORFOLK, VA. |                     |                     |
| CHESAPEAKE BAY BRIDGE-TUNNEL CROSSING       |                     |                     |
| NORTH TOLL PLAZA                            |                     |                     |
| TOLL OFFICE BUILDING                        |                     |                     |
| HEATING, VENTILATING & AIR CONDITIONING     |                     |                     |
| RECOMMENDED:                                | DRAWN BY: R. OLIVER | SCALE: 1/4" = 1'-0" |
| CHECKED BY: R. OLIVER                       | DATE: 1-16-63       |                     |
| APPROVED: C. Hecalf                         | DWG. NO. 13 OF 26   |                     |
| SECTION NO. TF-4                            |                     |                     |

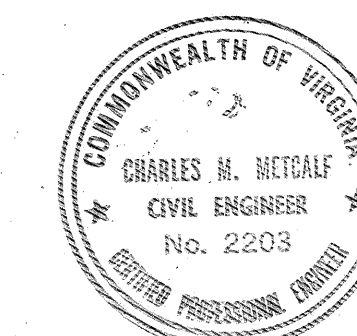


*Note: Model designations refer to Barber-Coleman or approved equal.*



NOTES

1. Work this drawing with drawing #13.
2. For Tankless Heater piping diagram see drawing #16.



|  |
|--|
| COMMONWEALTH OF VIRGINIA   |
| <b>CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT</b>   |
| NORFOLK 1, VIRGINIA  |
| <b>SVERDRUP &amp; PARCEL, CONSULTING ENGINEERS</b><br><b>NEW YORK, N. Y.-ST. LOUIS, MO.-NORFOLK, VA.</b>   |
| <b>CHESAPEAKE BAY BRIDGE-TUNNEL CROSSING</b><br><b>NORTH TOLL PLAZA</b><br><b>TOLL BOOTHS &amp; TOLL OFFICE BUILDING</b><br><b>HEATING, VENTILATING &amp; AIR CONDITIONING</b> |


|           |   |                  |
|-----------|---|------------------|
|           |   |                  |
|           |   |                  |
|           |   |                  |
|           |   |                  |
|           |   |                  |
| 6.C       | 1 | 8.14.64 AS BUILT |
| APPR. NO. |   | REVISION         |

RECOMMENDED:

*P. E. Egleston*

APPROVED:

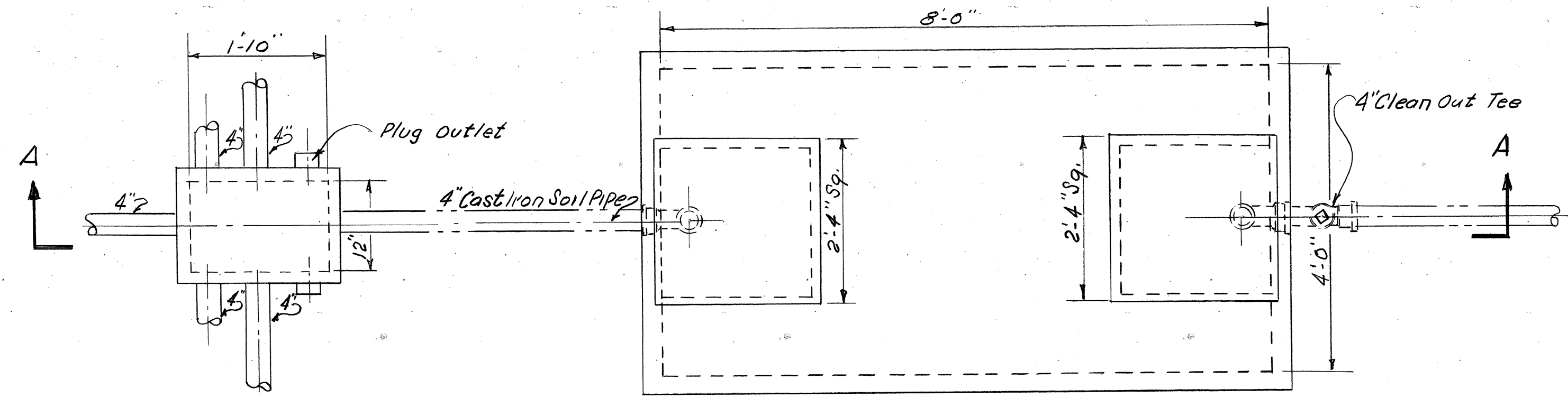
*Ch. T. Tuckey*

|   |                 |
|---|-----------------|
| DRAWN BY: R. OLIVER   | SCALE: AS NOTED |
| CHECKED BY:  | DATE: 1.16.63   |
| DWG. NO.  | 14 OF 26        |

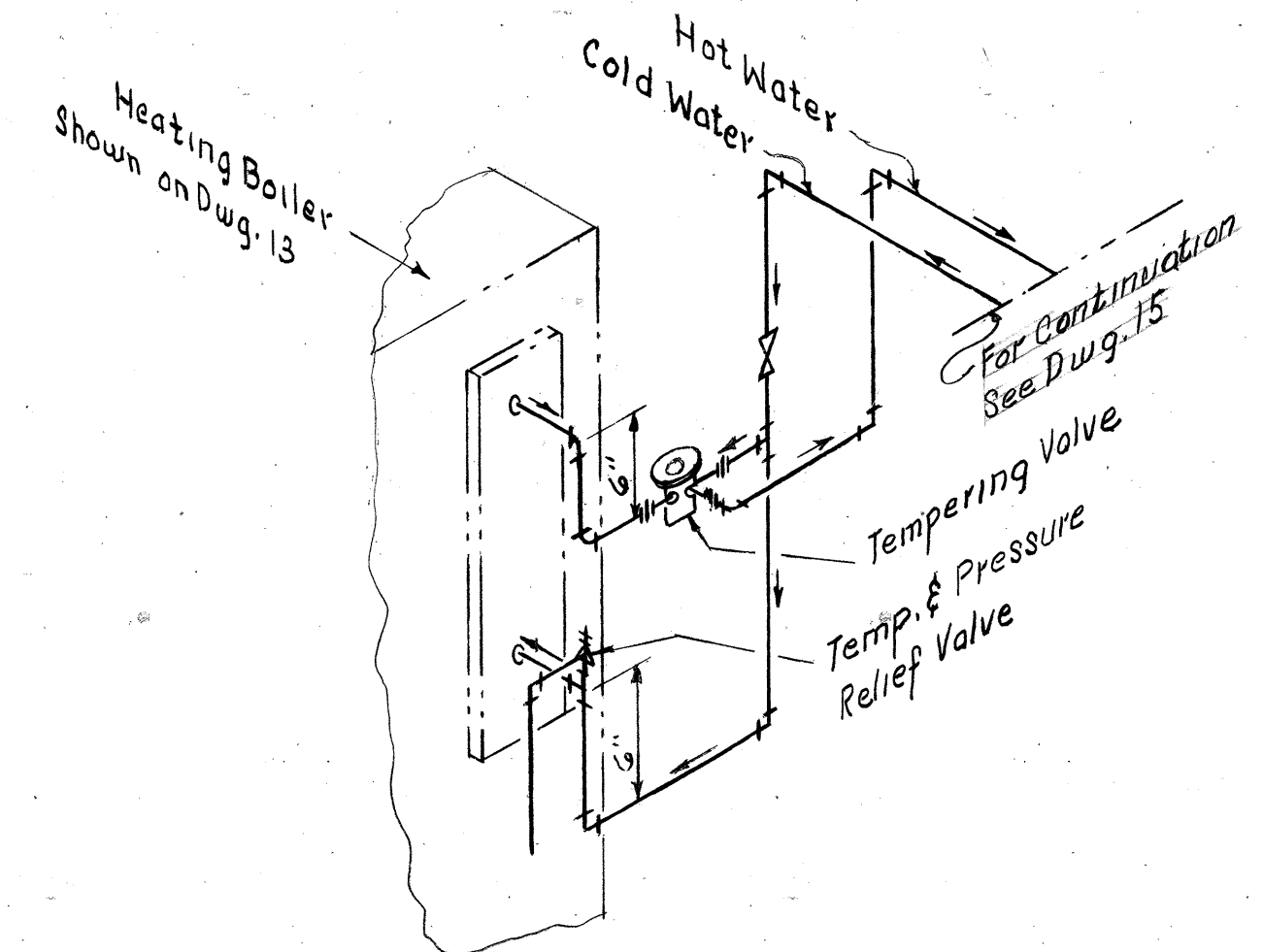
SECTION NO. *TF-4*

## AS BUILT

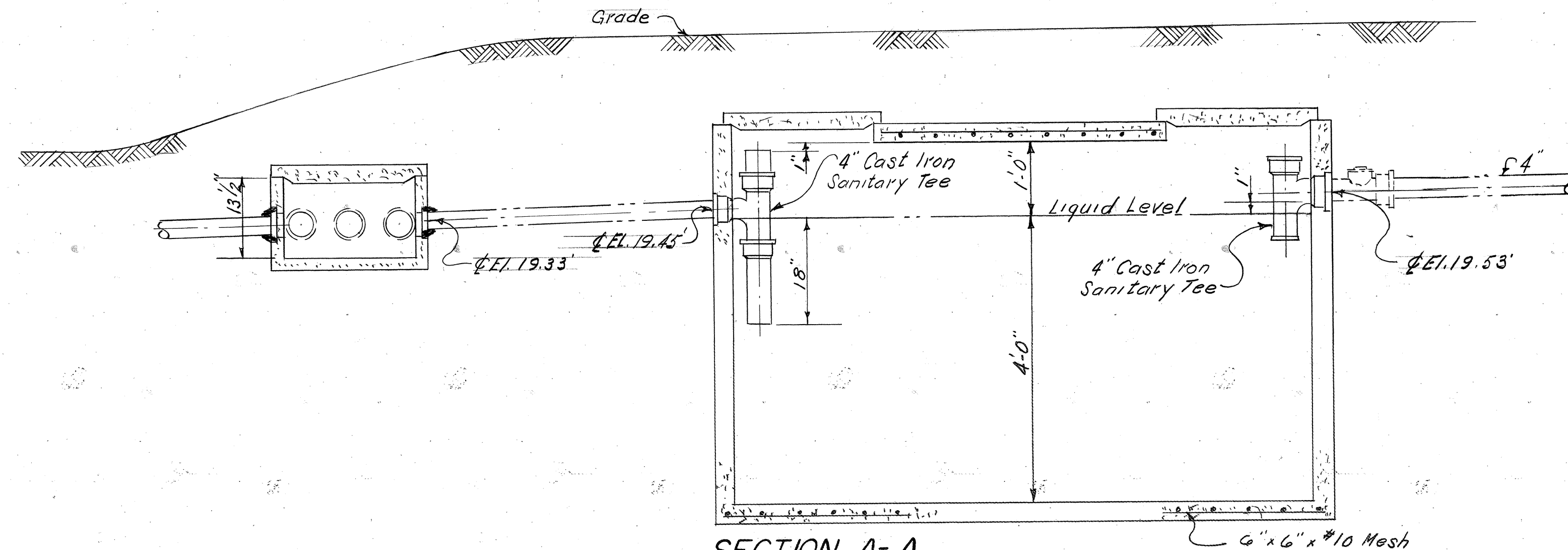




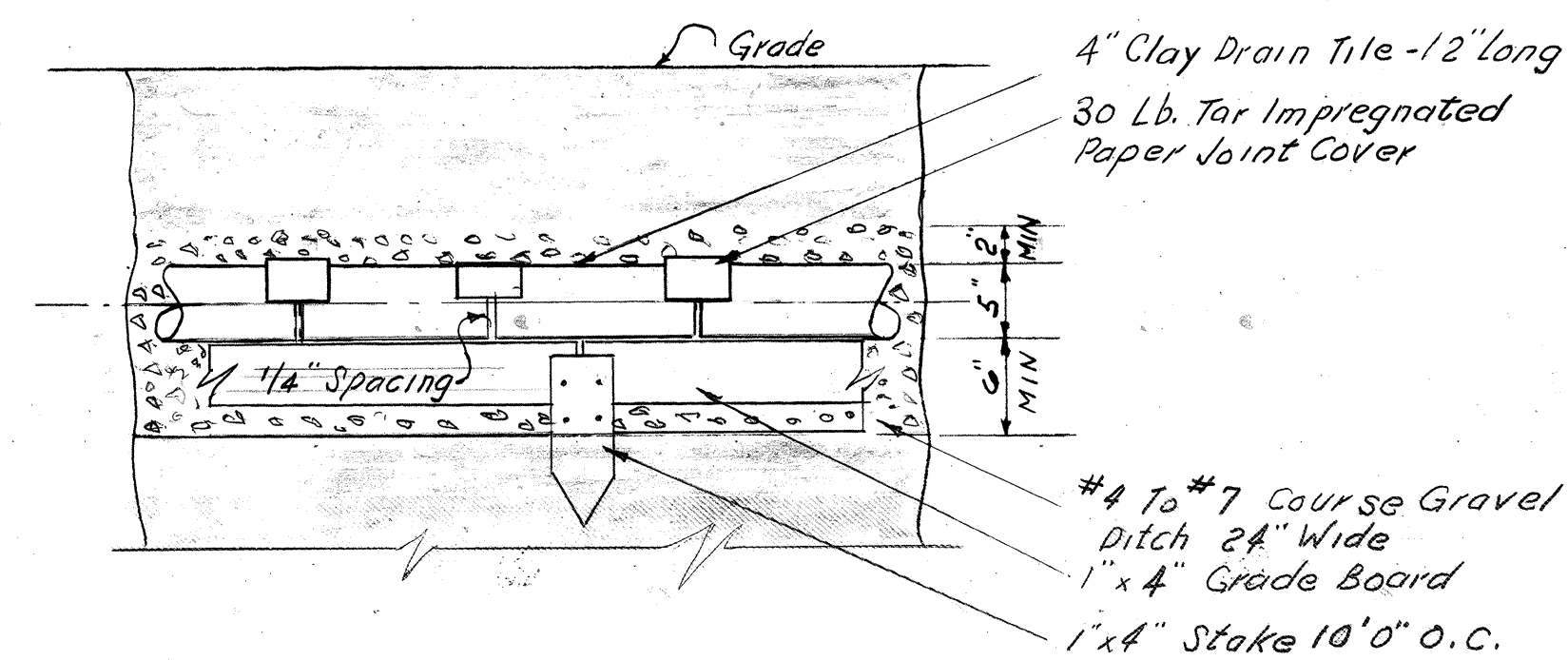
PLAN  
DISTRIBUTION BOX AND SEPTIC TANK  
SCALE - 3/4" = 1'-0"



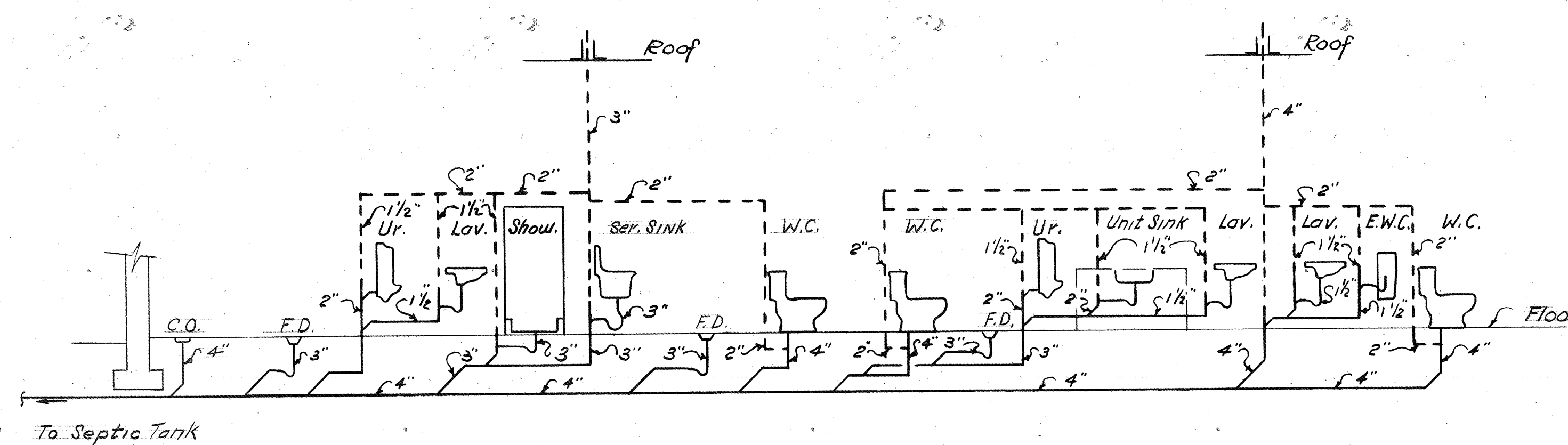
DETAIL 2  
TANKLESS HEATER  
PIPING DIAGRAM  
NO SCALE



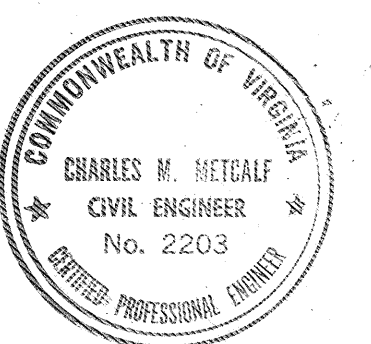
SECTION A-A  
SCALE - 3/4" = 1'-0"



DETAIL-1  
ABSORPTION FIELD PIPING  
NO SCALE



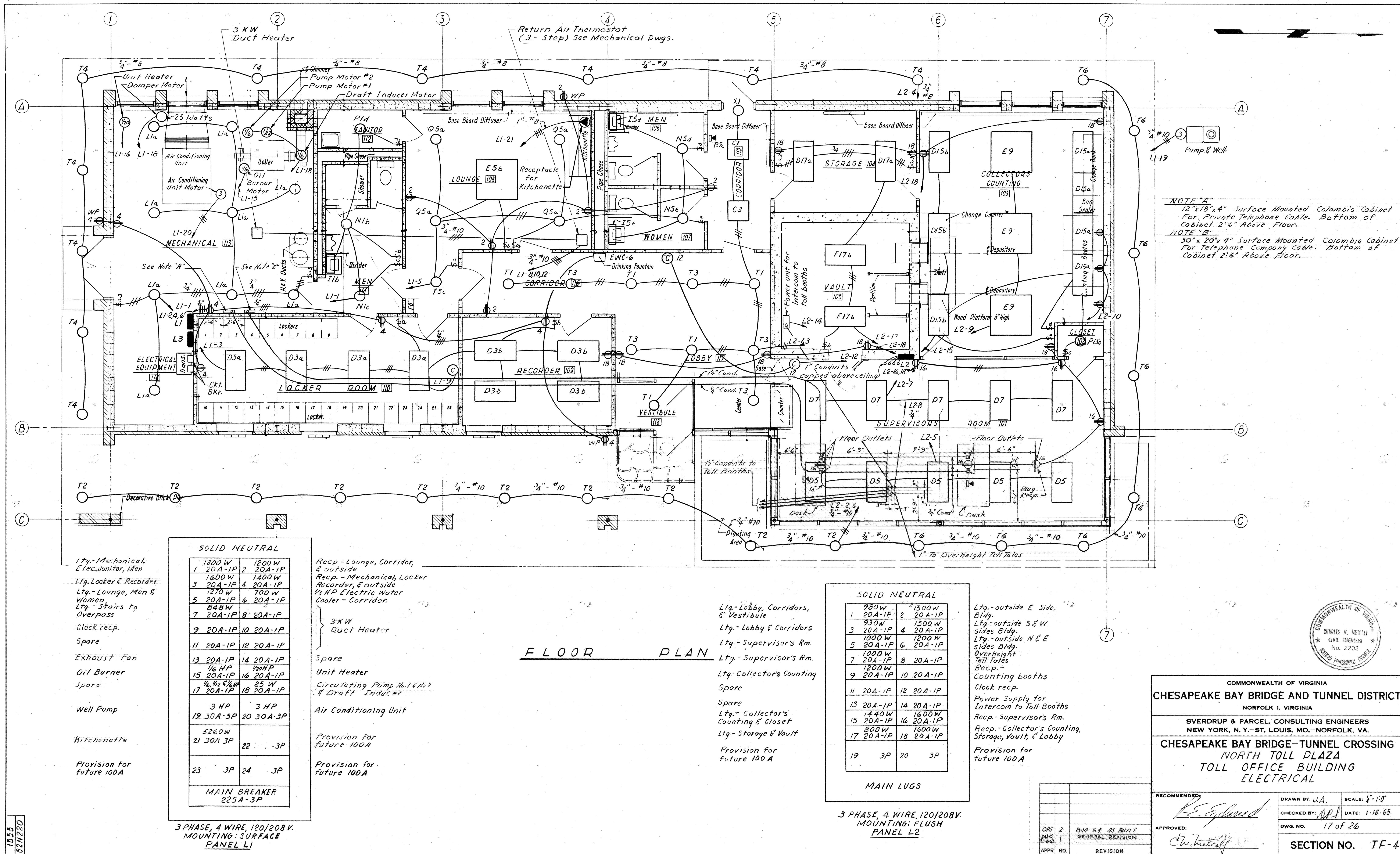
SANITARY RISER DIAGRAM  
NO SCALE

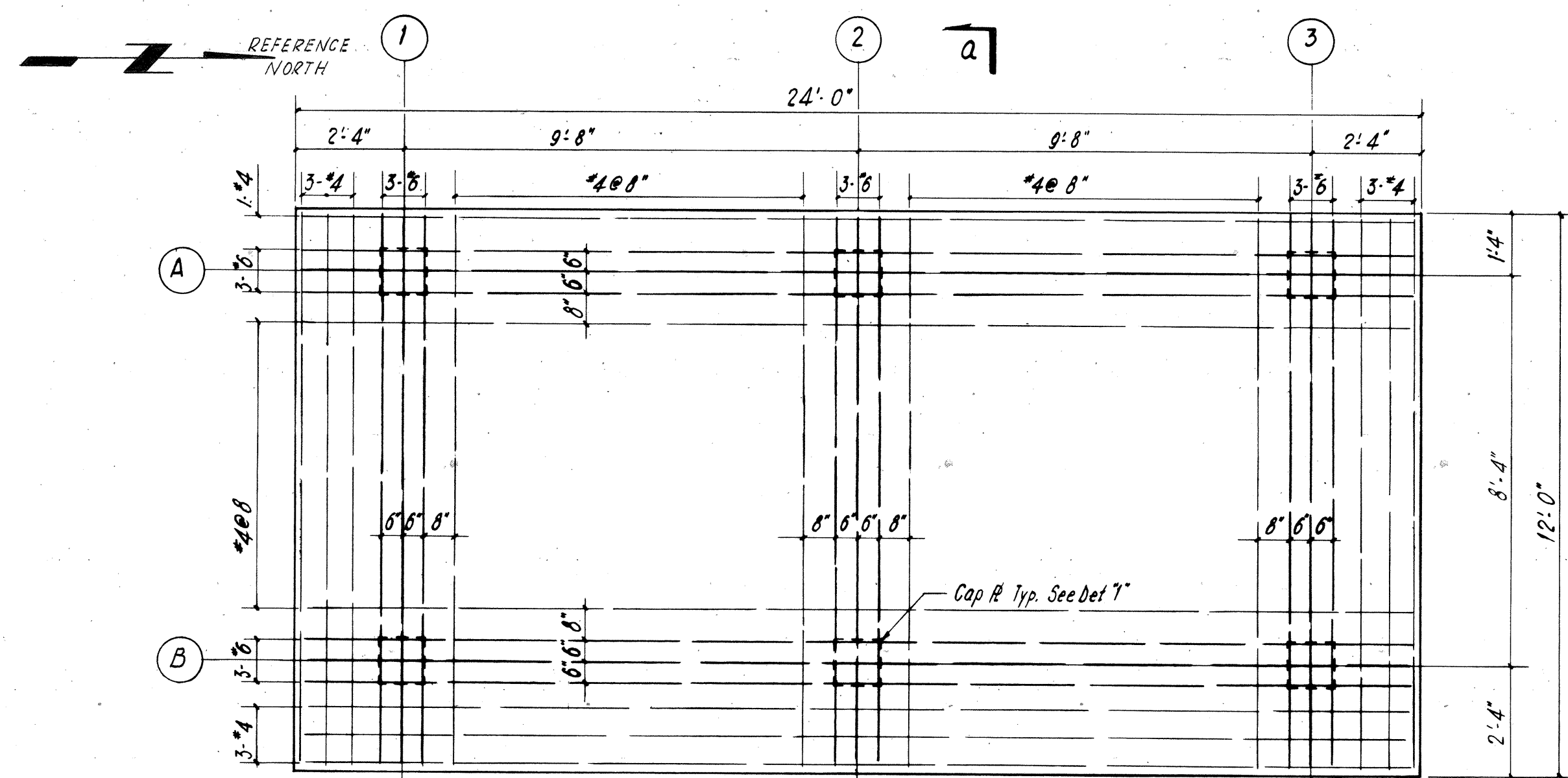


|   |                |                  |  |
|---|----------------|------------------|--|
| COMMONWEALTH OF VIRGINIA                        |                |                  |  |
| CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT       |                |                  |  |
| NORFOLK 1, VIRGINIA                             |                |                  |  |
| SVERDRUP & PARCEL, CONSULTING ENGINEERS         |                |                  |  |
| NEW YORK, N. Y. - ST. LOUIS, MO. - NORFOLK, VA. |                |                  |  |
| CHESAPEAKE BAY BRIDGE-TUNNEL CROSSING           |                |                  |  |
| NORTH TOLL PLAZA                                |                |                  |  |
| TOLL OFFICE BUILDING                            |                |                  |  |
| PLUMBING DETAILS                                |                |                  |  |
| RECOMMENDED:                                    | DRAWN BY: F.S. | SCALE: AS SHOWN  |  |
| CHECKED BY: <i>[Signature]</i>                  | DATE: 1-18-63  |                  |  |
| DWG. NO. 16 OF 26                               |                |                  |  |
| APPROVED: <i>[Signature]</i>                    |                | SECTION NO. TF-4 |  |

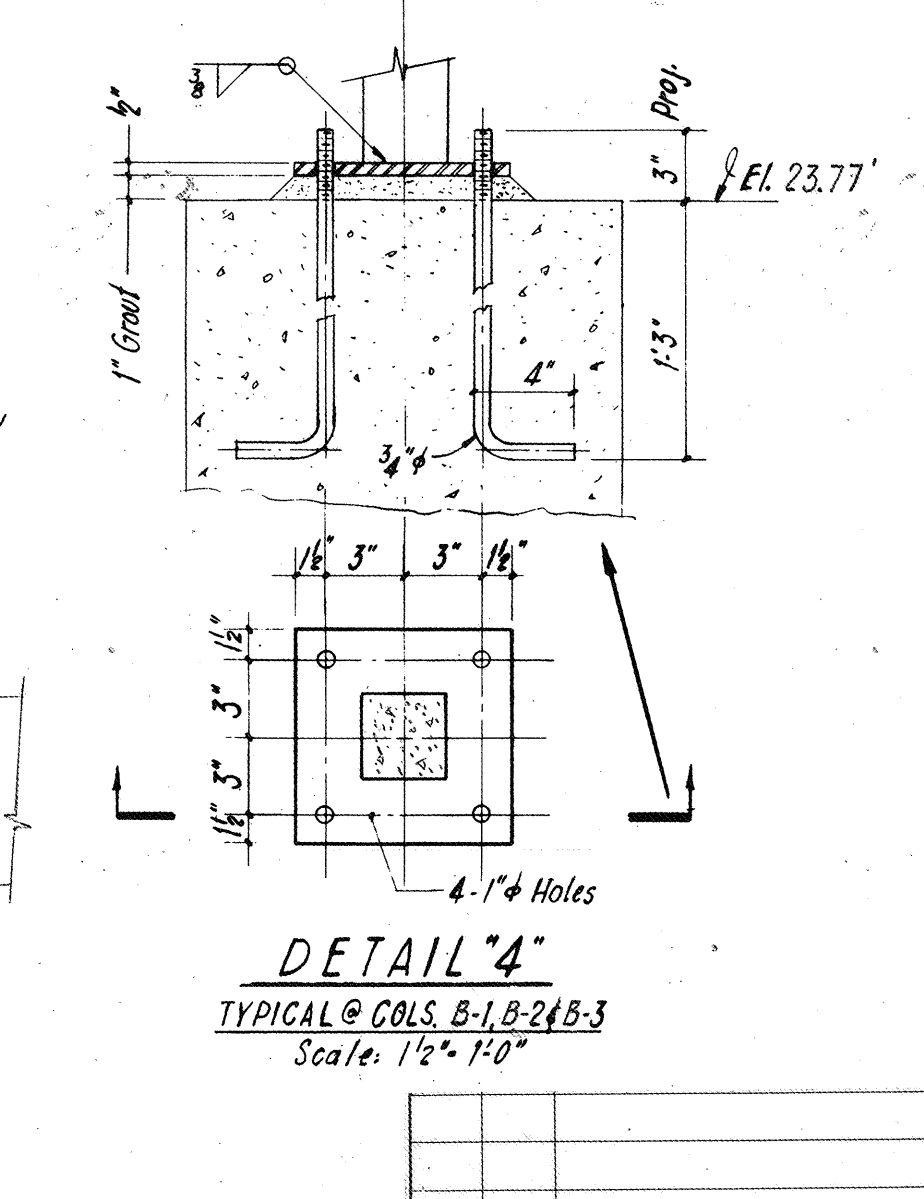
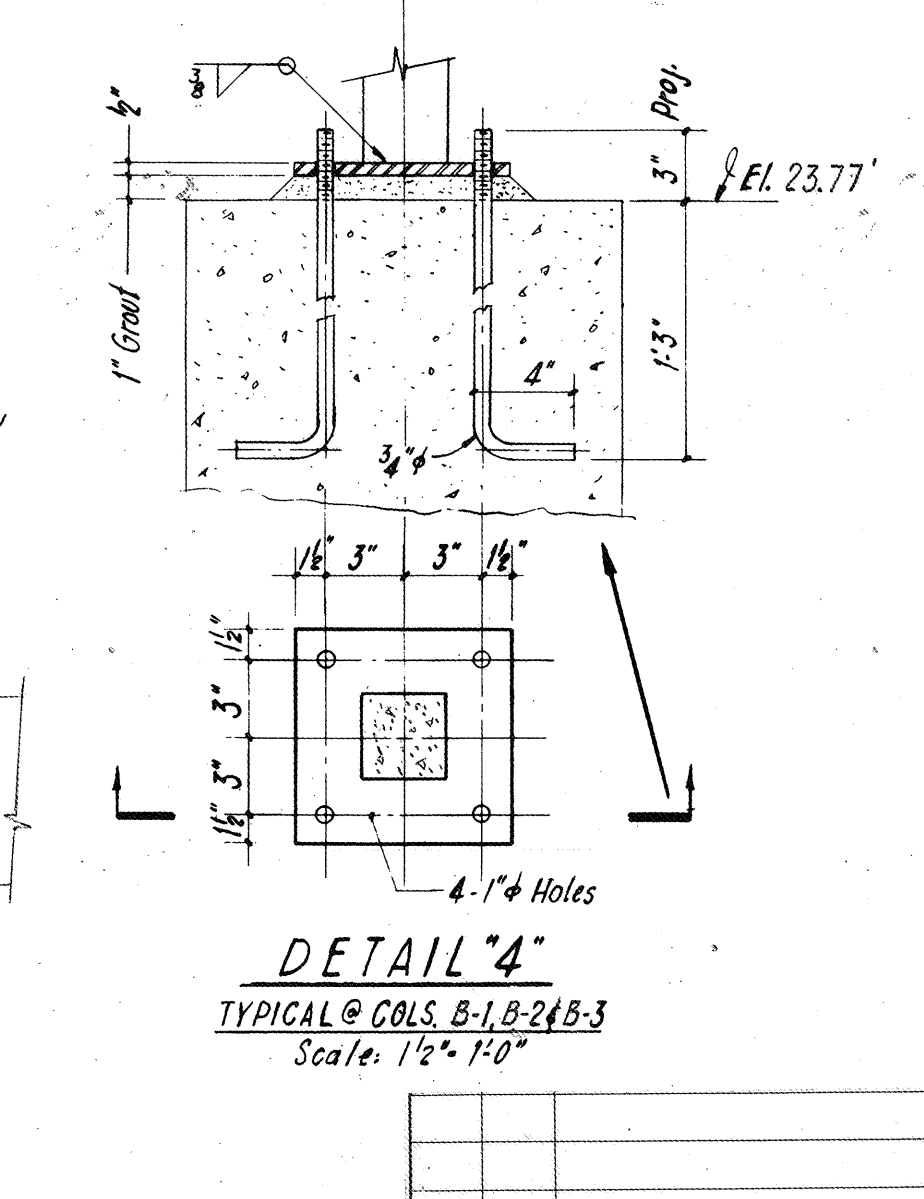
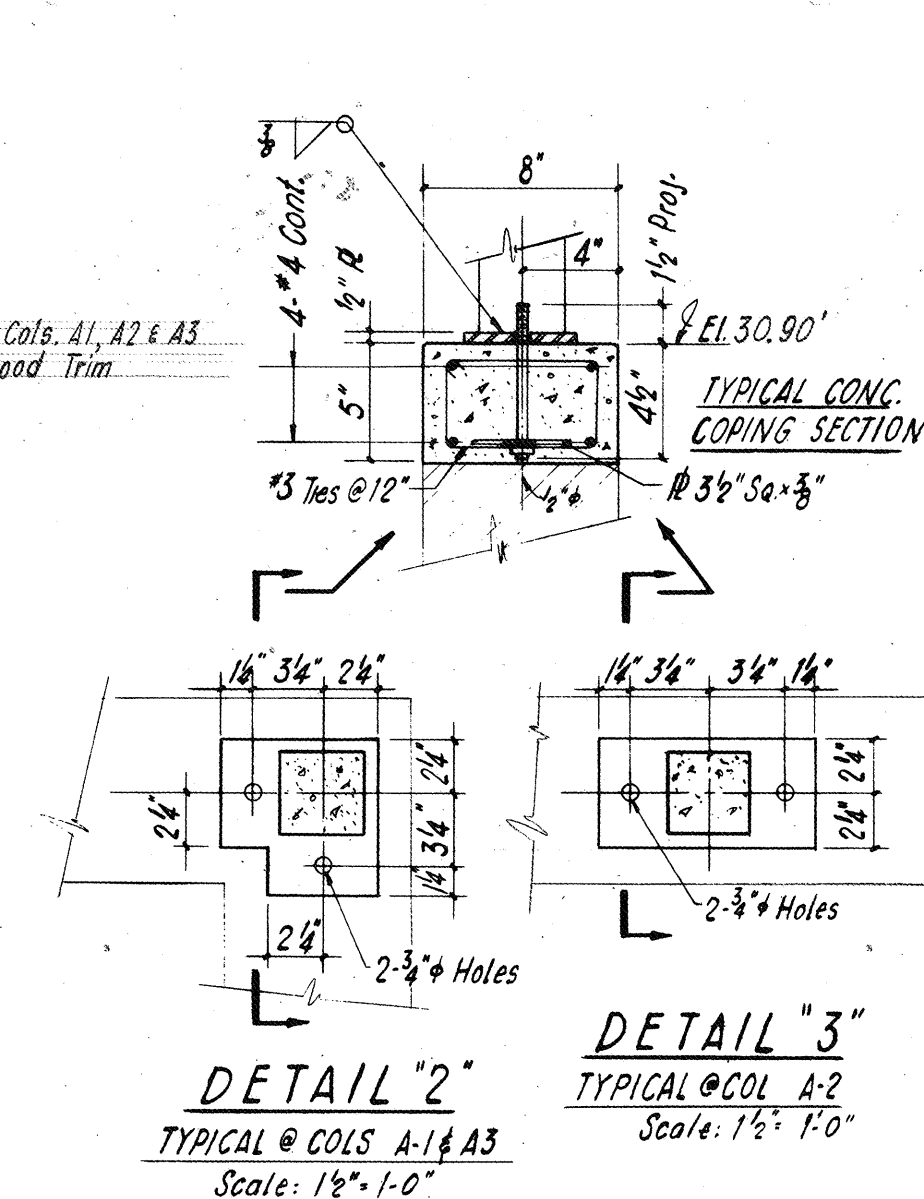
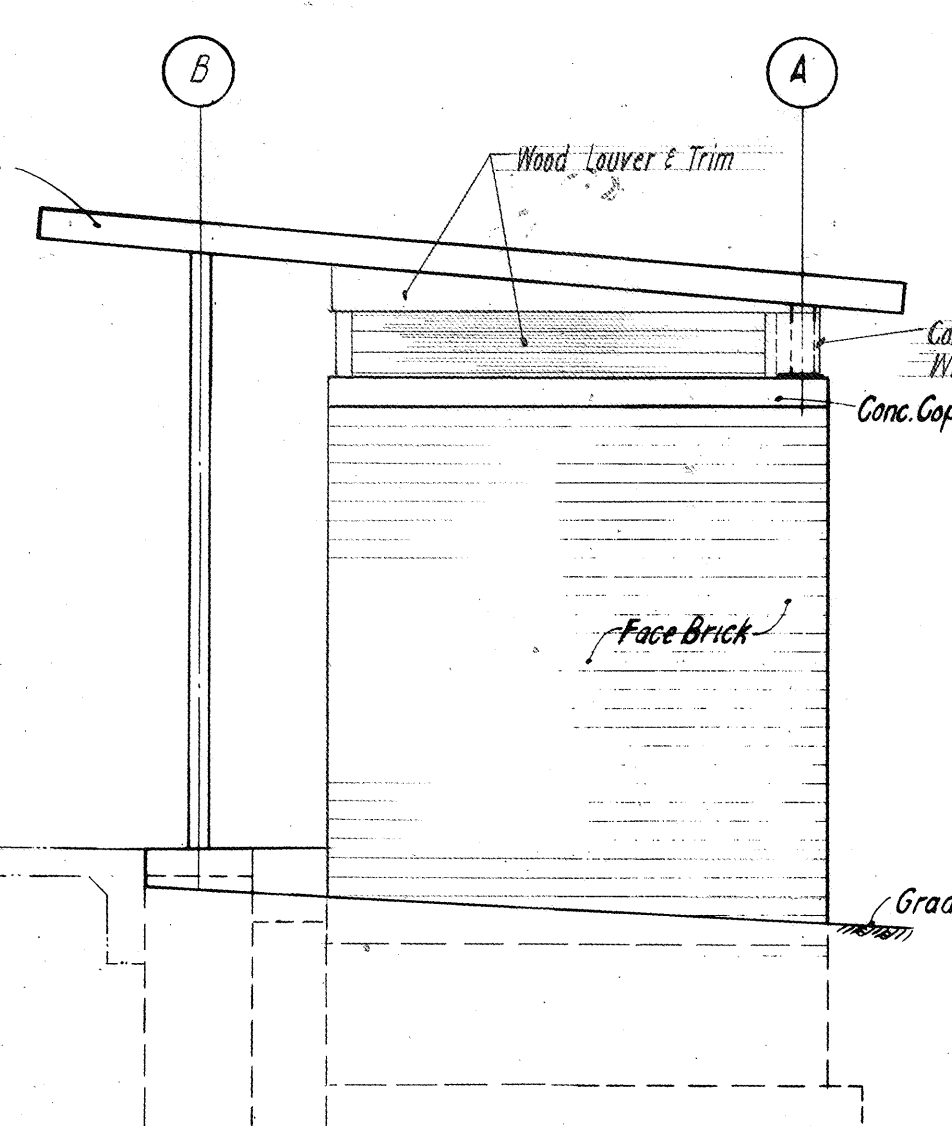
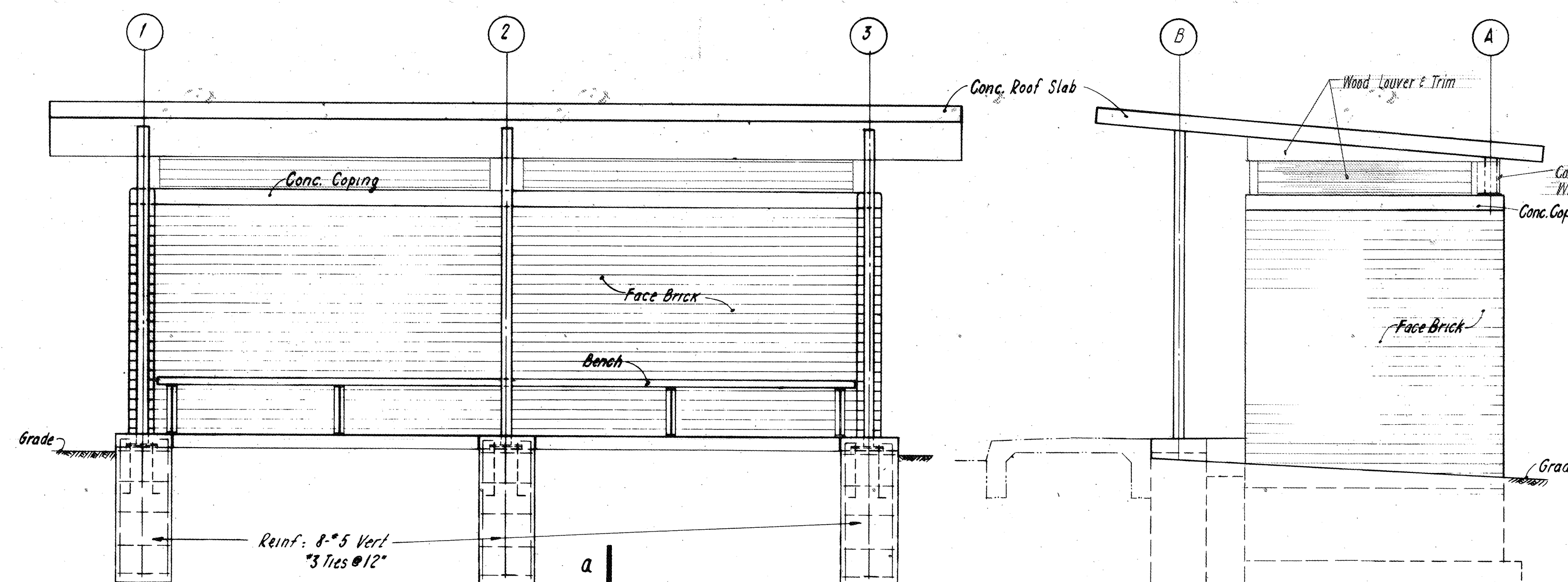
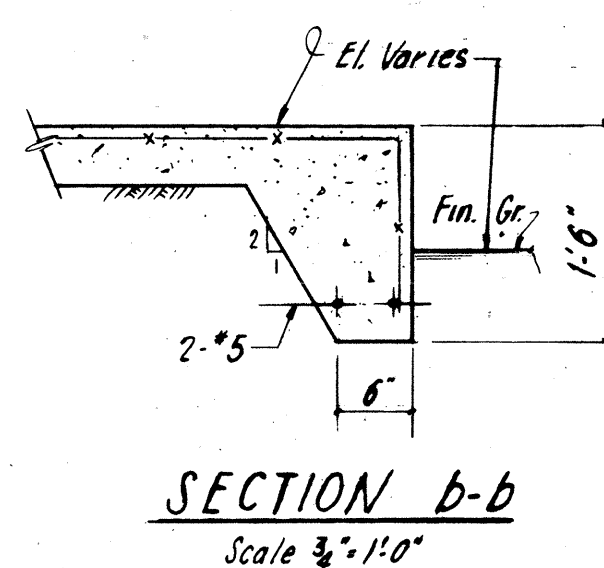
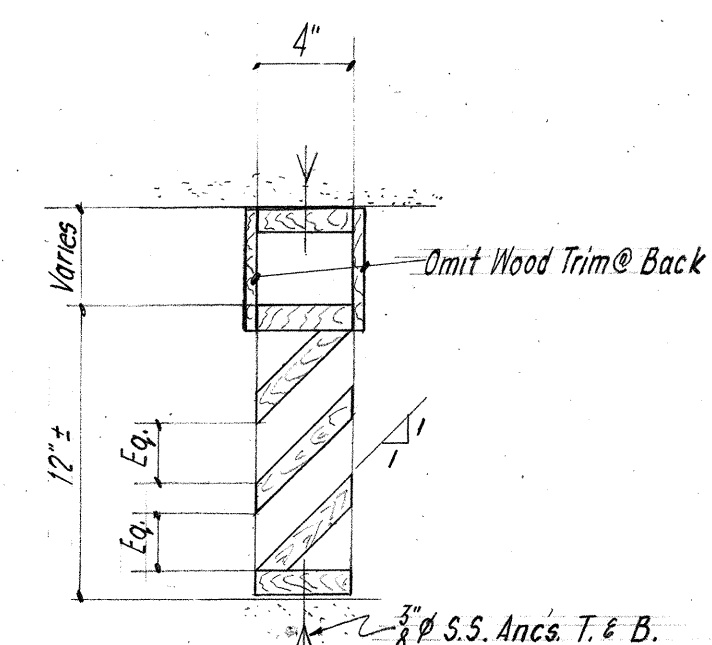
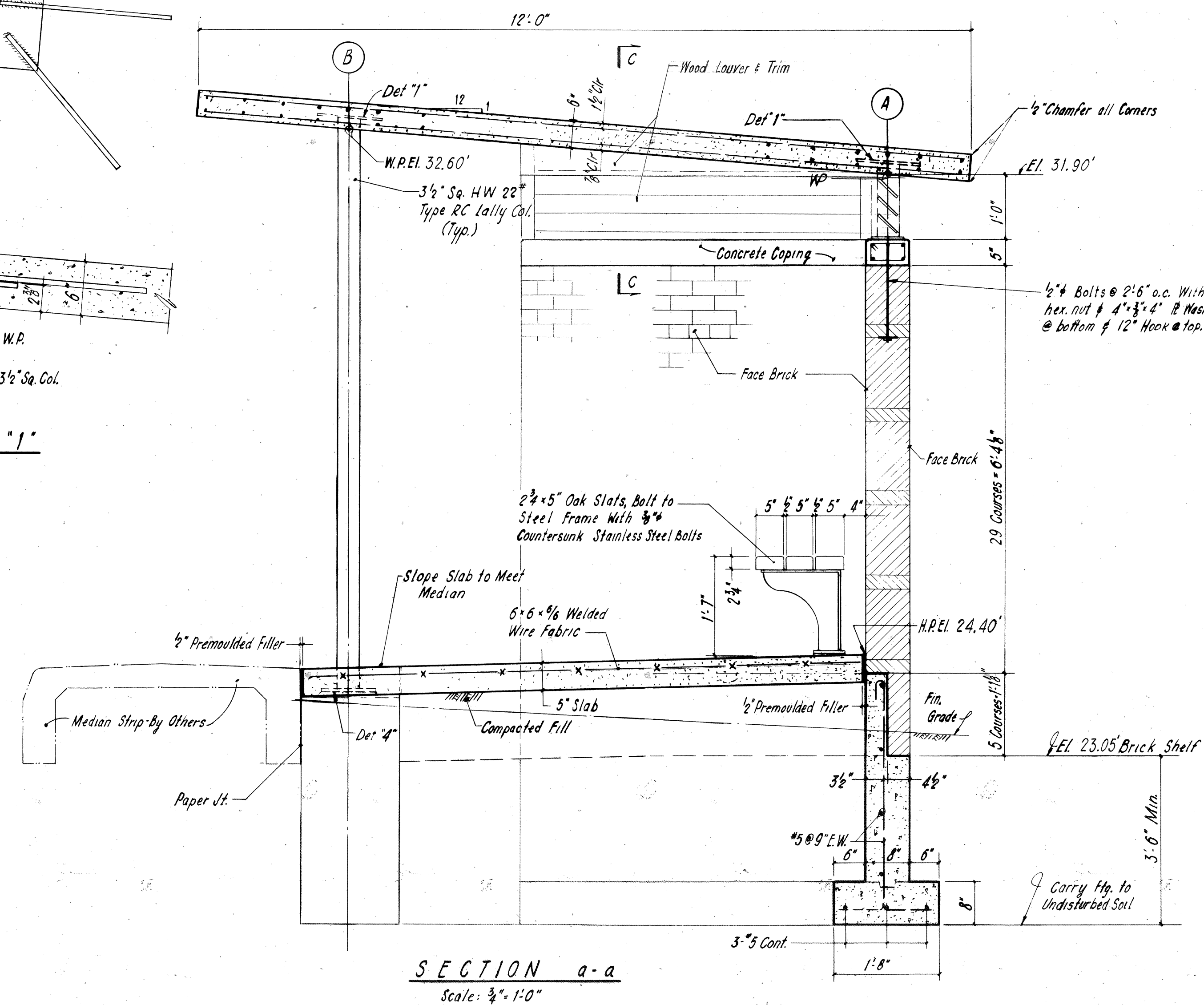
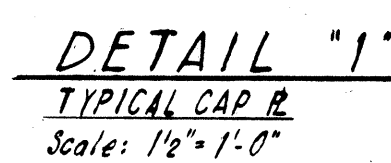
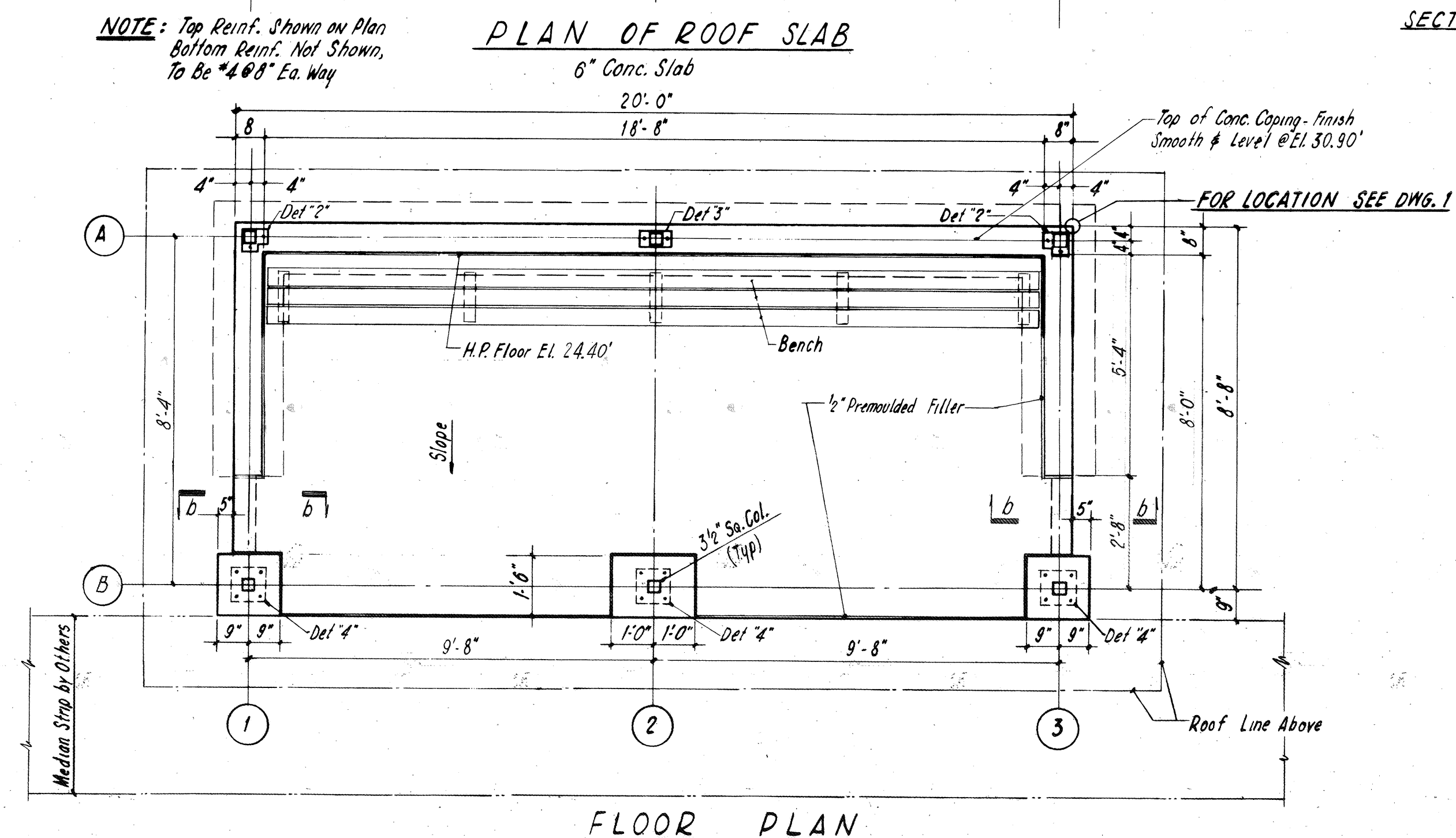
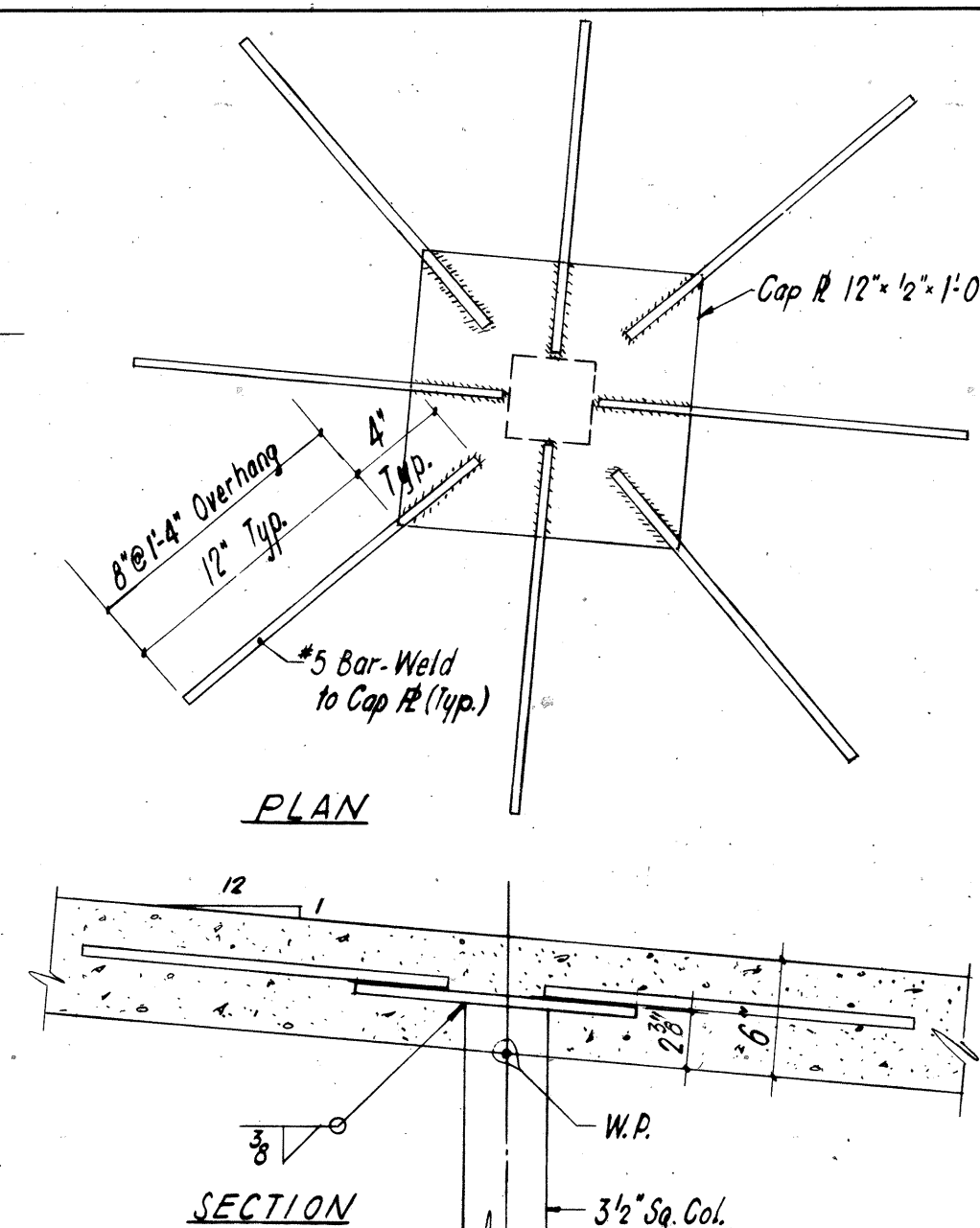
| G.C.  | NO.     | DATE                        | REVISION |
|-------|---------|-----------------------------|----------|
| 2     | 8-14-64 | AS BUILT                    |          |
| 1     | 8-14-64 | REVISED SEPTIC TANK/VIEW    |          |
| 1     | 8-14-64 | SOIL & DELETED WALL SECTION |          |
| APPR. | NO.     | REVISION                    |          |

AS BUILT

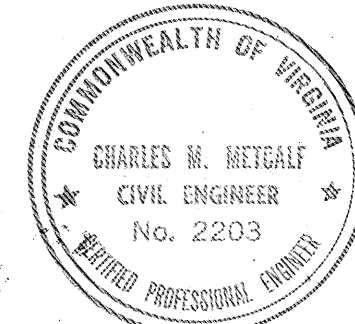






NOTE: Top Reinf. Shown on Plan  
Bottom Reinf. Not Shown,  
To Be #4 @ 8" Ea. Way

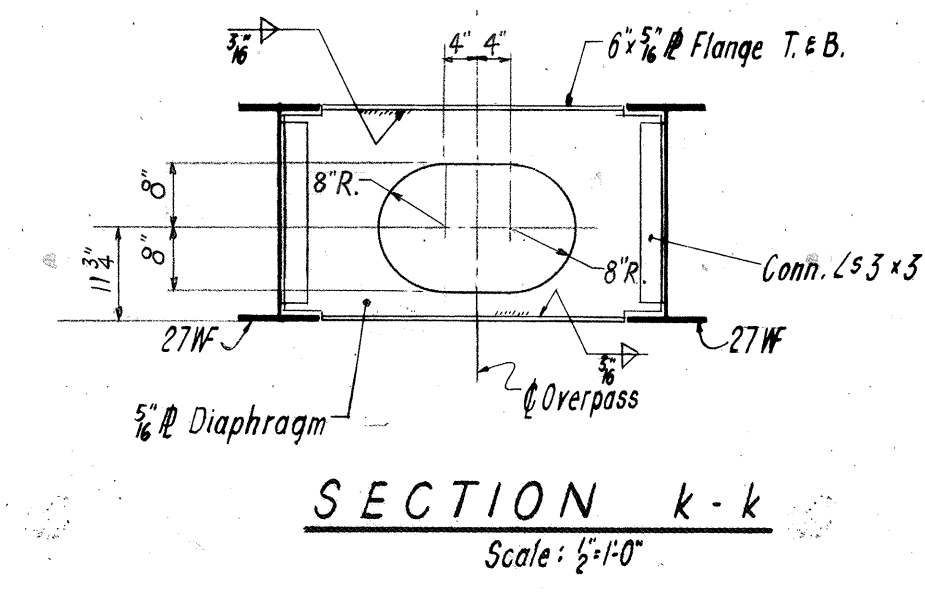
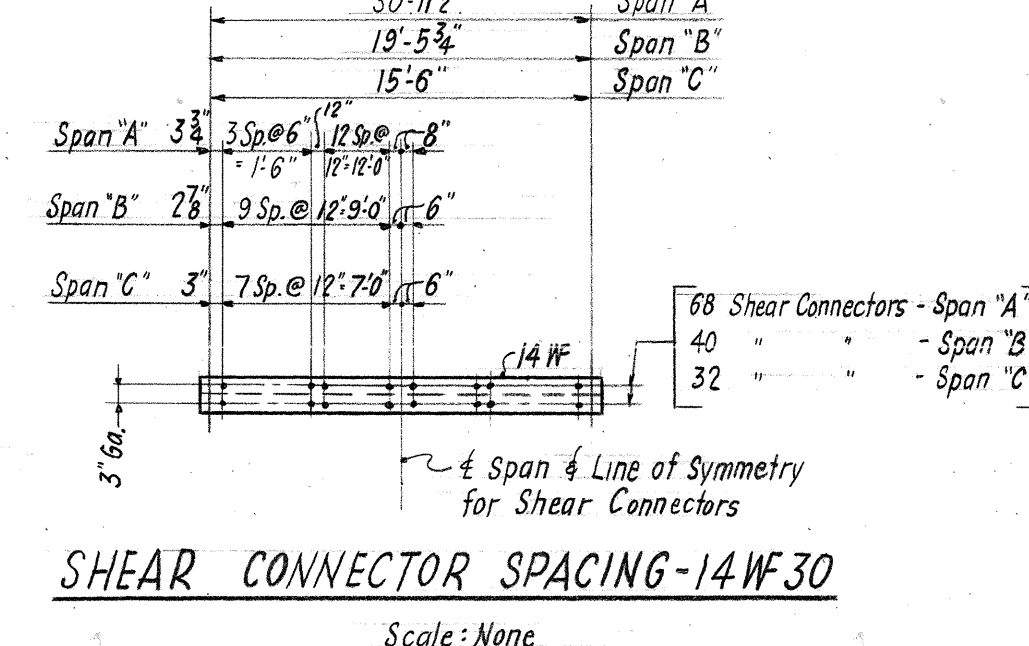
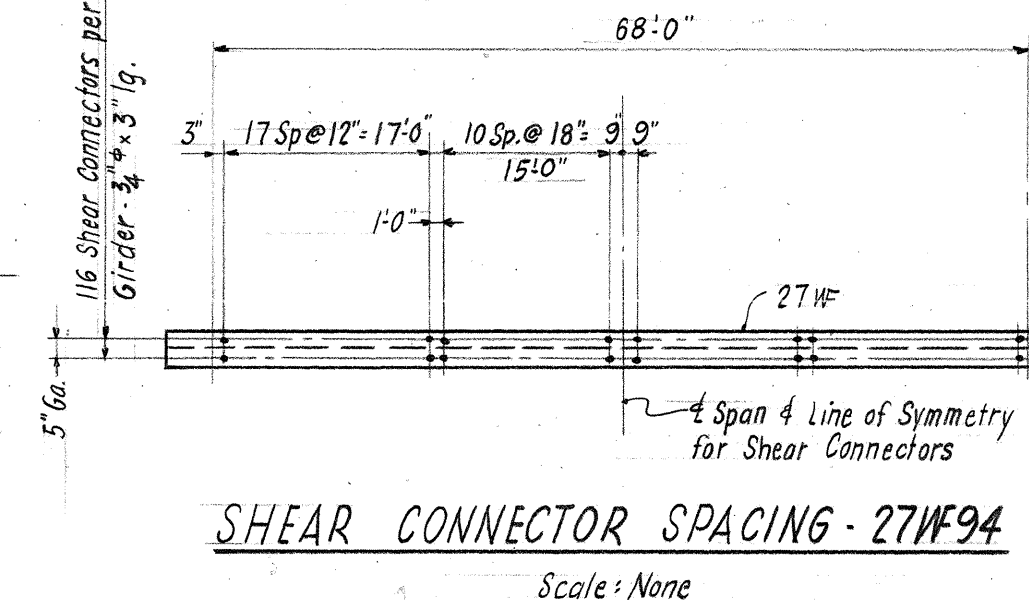
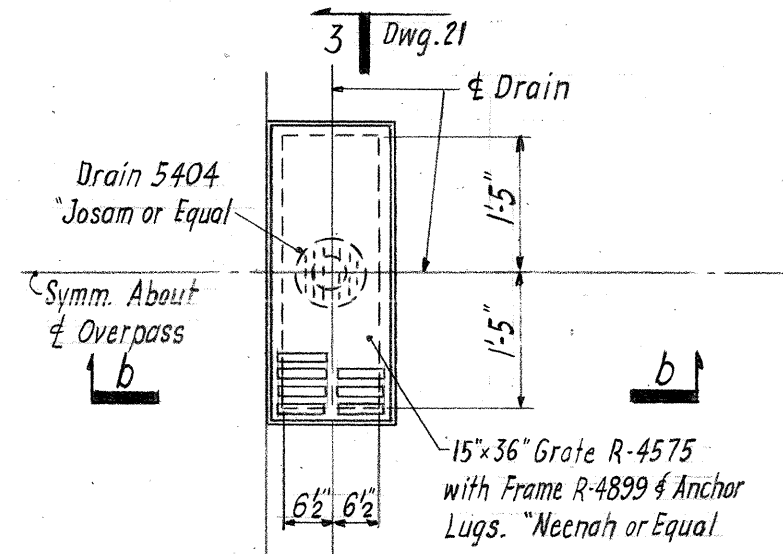
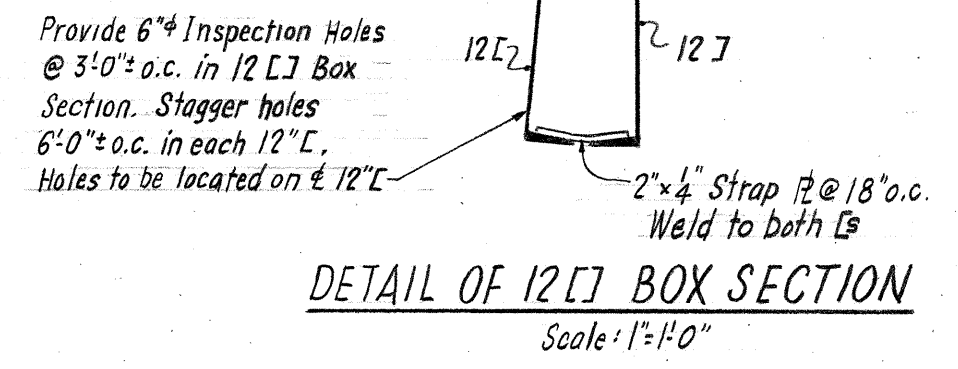
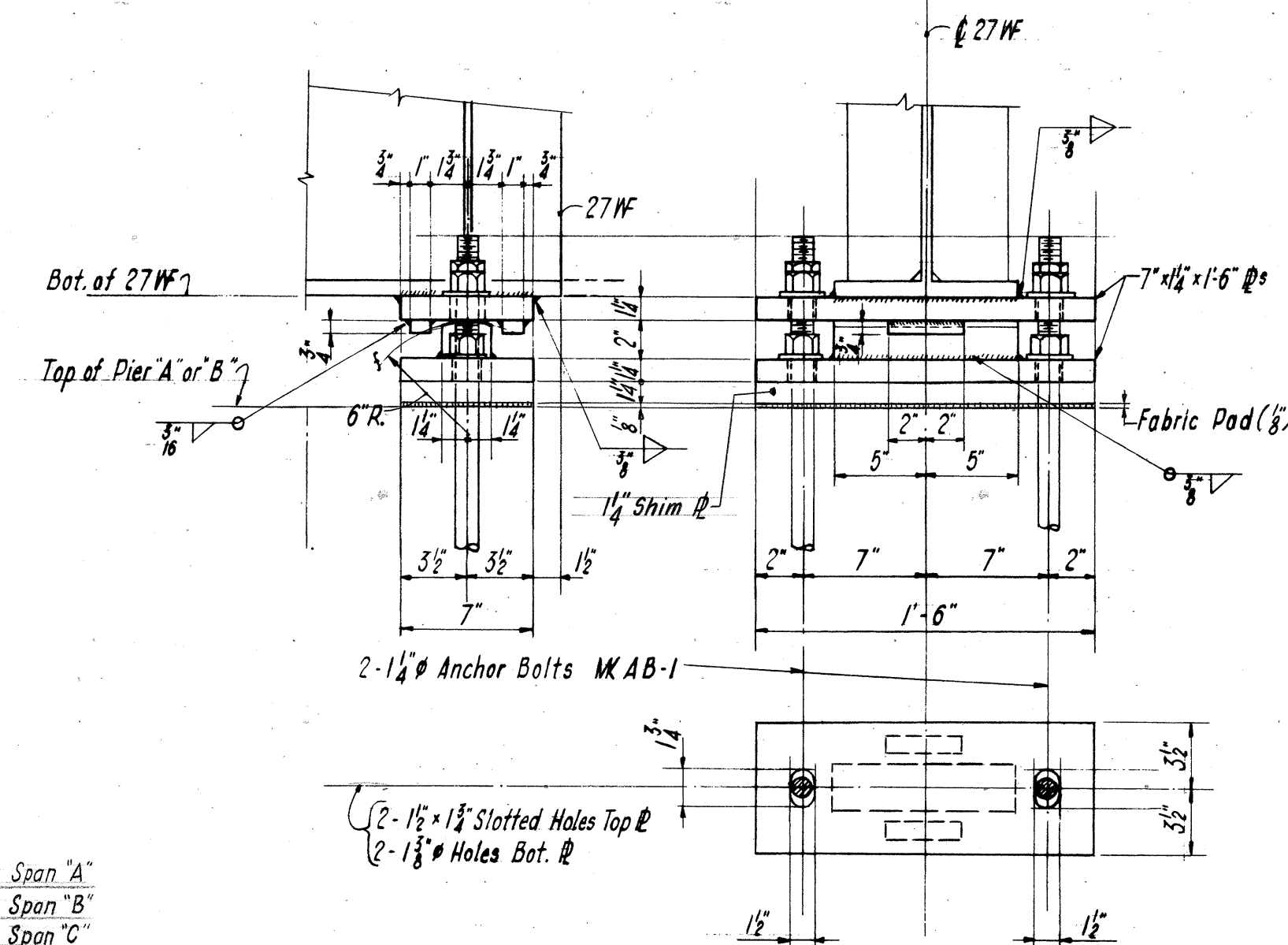
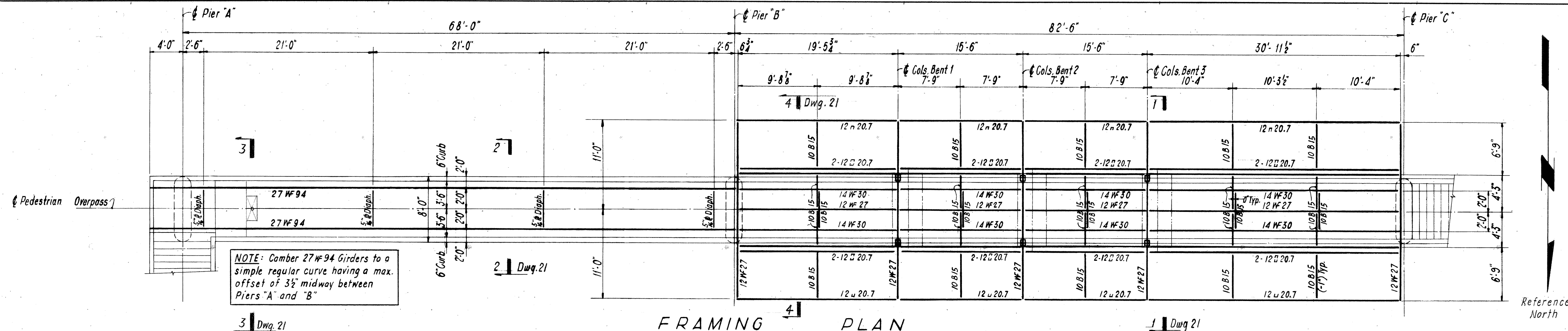


NOTES:  
For General Notes See Dwg. 10.



|   |  |
|---|--|
| COMMONWEALTH OF VIRGINIA  |  |
| CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT   |  |
| NORFOLK 1, VIRGINIA   |  |
| SVERDRUP & PARCEL, CONSULTING ENGINEERS<br>NEW YORK, N. Y.-ST. LOUIS, MO.-NORFOLK, VA.                |  |
| CHESAPEAKE BAY BRIDGE-TUNNEL CROSSING<br>NORTH TOLL PLAZA<br>BUS SHELTER<br>PLANS & DETAILS           |  |
| RECOMMENDED:<br> | DRAWN BY: <i>Dorato</i> SCALE: <i>3/4" = 1' Unless Noted</i> |
| APPROVED:<br>    | CHECKED BY: <i>Shuttle</i> DATE: <i>1-16-63</i>              |
|   | DWG. NO. <i>18 of 26</i>                                     |
| SECTION NO. <i>TF-4</i>   |  |





NOTE: Cols. Bent #1, 2, & 3 are an integral part of the Toll Booth. For details of Booth, Column Base Plates & Fastening of Columns to underside of Canopy see Teller & Cooper Dwg. D-62751A, D-02586 & D-02587.

NOTES:  
For General Notes see Dwg. 19

WORK THIS DWG. WITH DWG. 21

COMMONWEALTH OF VIRGINIA  
**CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT**  
NORFOLK I, VIRGINIA

SVERDRUP & PARCEL, CONSULTING ENGINEERS  
NEW YORK, N. Y. - ST. LOUIS, MO. - NORFOLK, VA.

**CHESAPEAKE BAY BRIDGE-TUNNEL CROSSING**  
**NORTH TOLL PLAZA**  
**PEDESTRIAN OVERPASS**  
**FRAMING PLAN & DETAILS**

|                          |   |                 |
|--------------------------|---|-----------------|
| RECOMMENDED:             | CHARLES H. HESTDAHL<br>CIVIL ENGINEER<br>No. 2203<br>REGISTERED PROFESSIONAL ENGINEER | SCALE: As Noted |
| CHECKED BY: J.S. Tappert | DATE: 1-16-65   |                 |
| DWG. NO.                 | 20 of 26  |                 |
| SECTION NO.              | TF-4  |                 |

|       |          |                         |          |
|-------|----------|-------------------------|----------|
| GC    | 2        | 8-14-64                 | AS BUILT |
| 1     | 18-14-65 | TYR BASE L. ADDED NOTE. |          |
| APPR. | NO.      | REVISION                |          |

**DETAILS AT PIER "A"**  
Scale: 1/2" = 1'-0"

**DETAILS AT PIER "B"**  
Scale: 1/2" = 1'-0"

**DETAILS AT COLUMN BENTS**  
Scale: 1/2" = 1'-0"

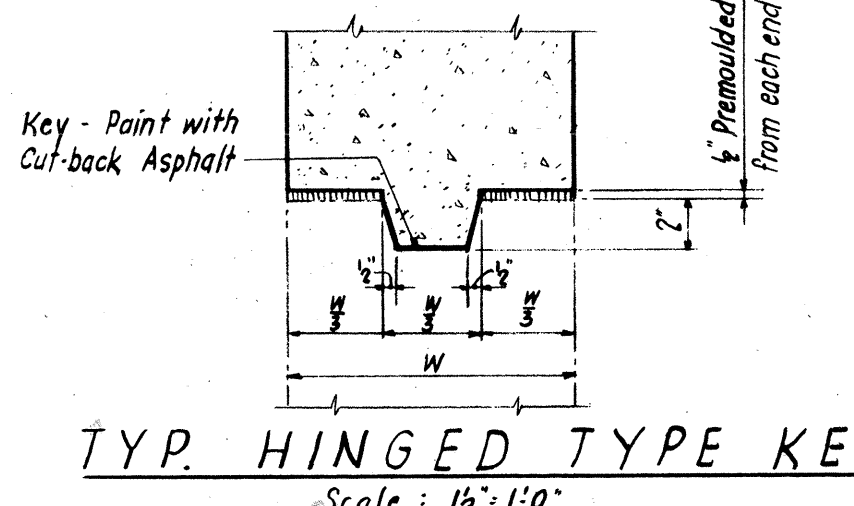
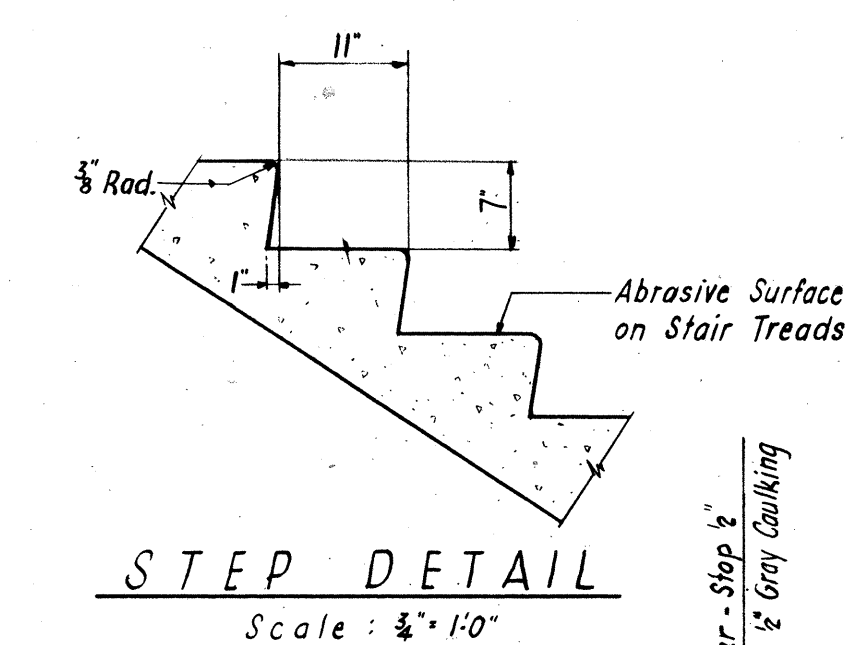
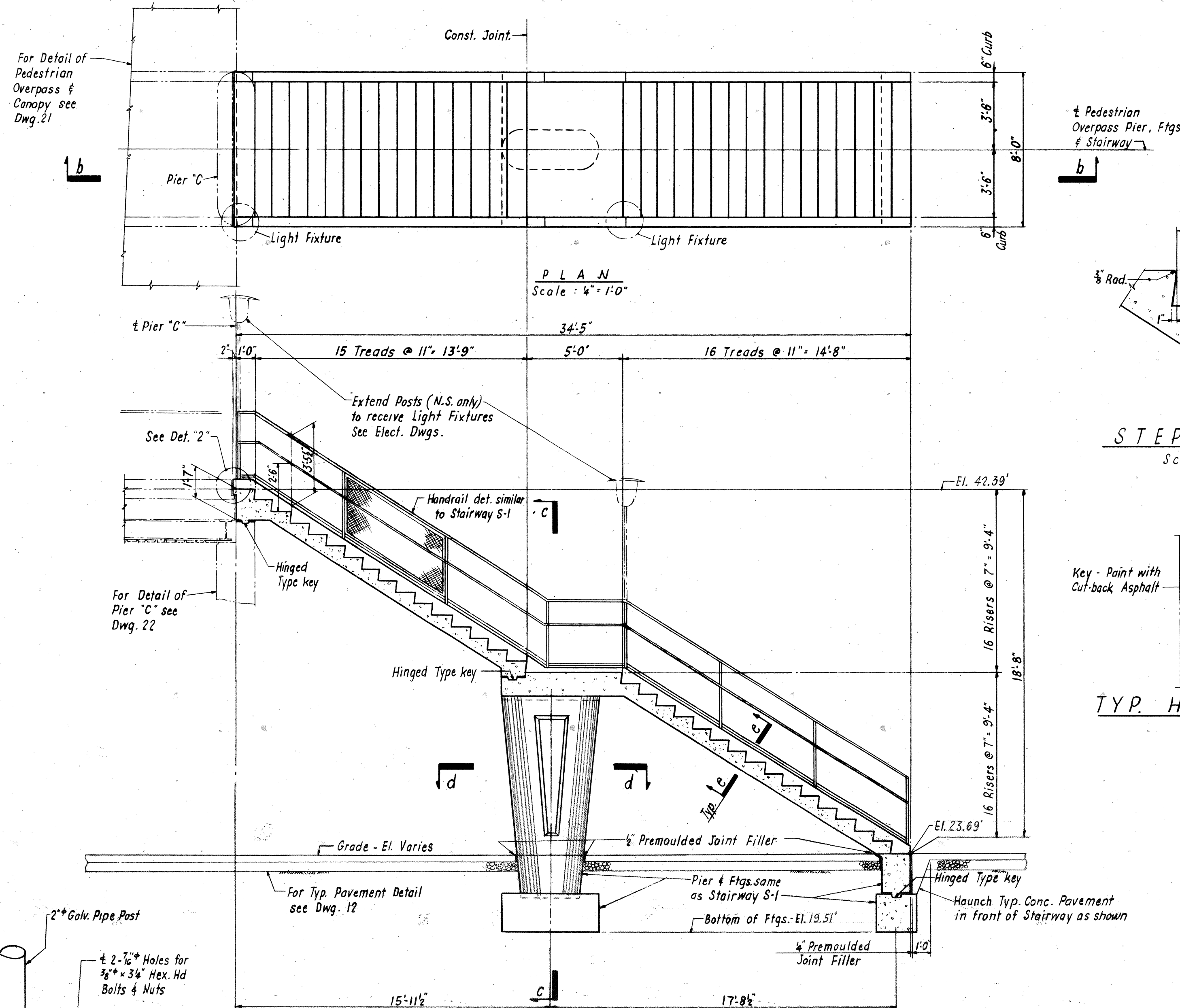
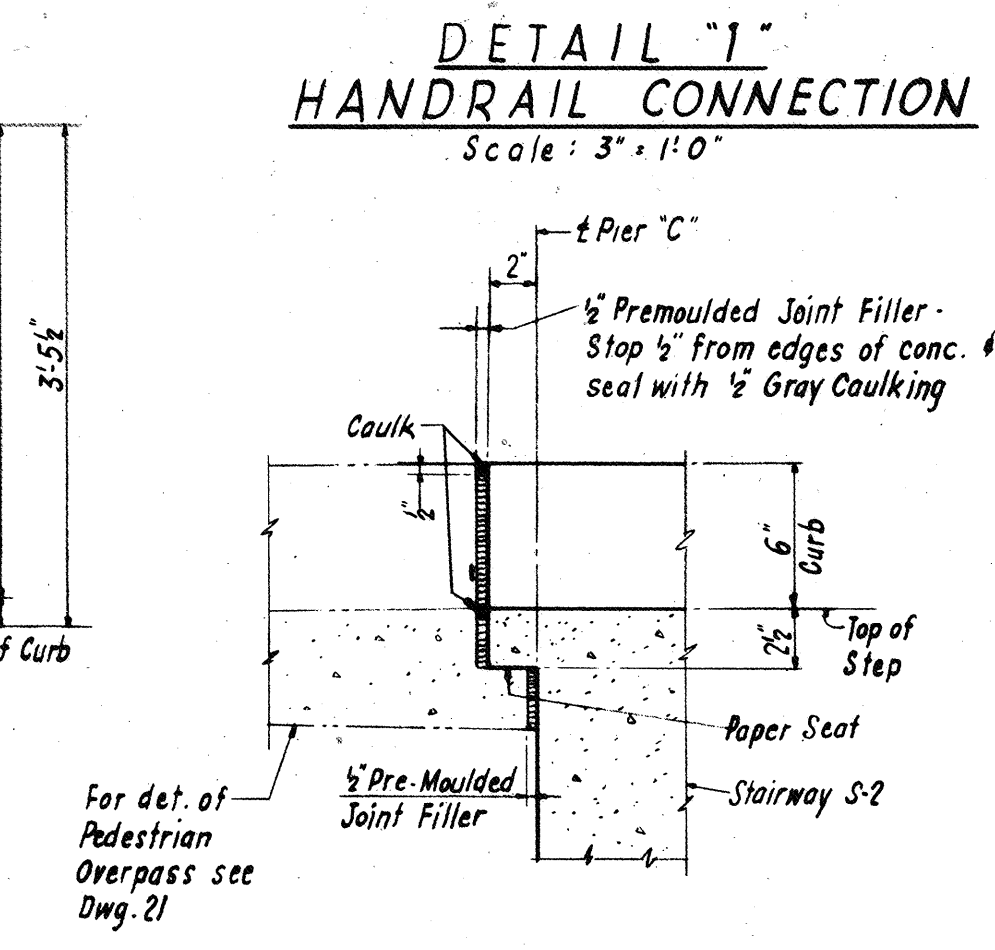
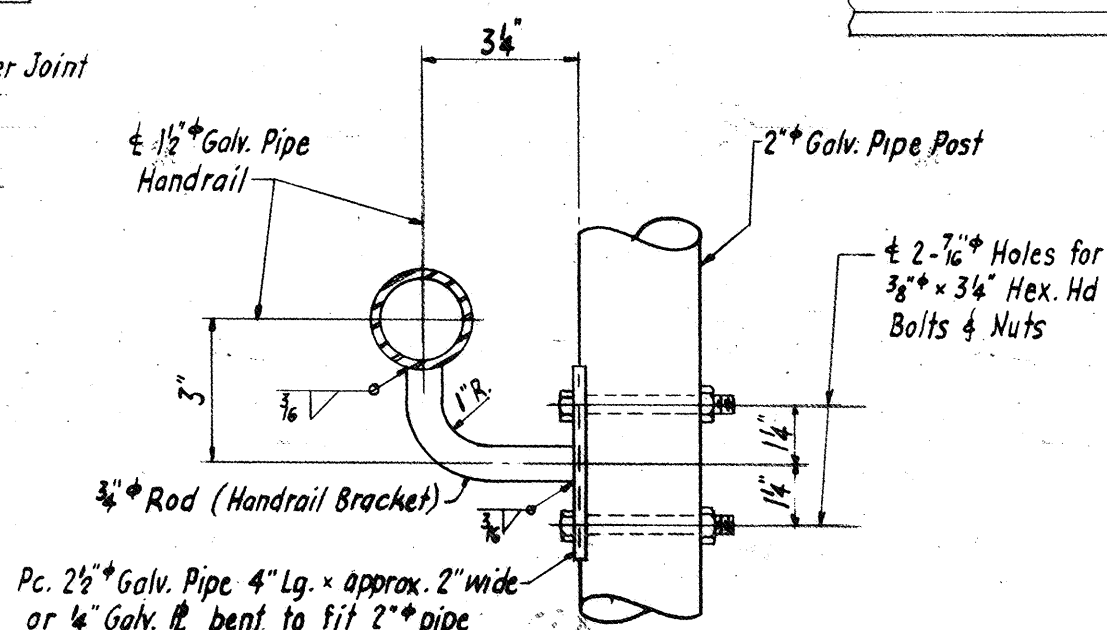
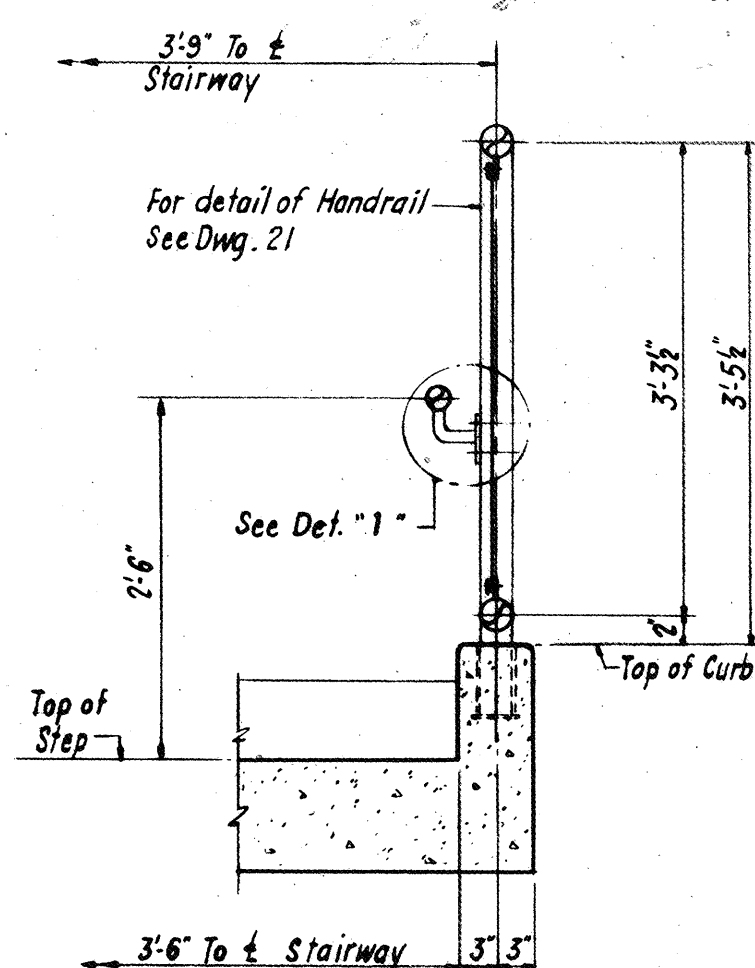
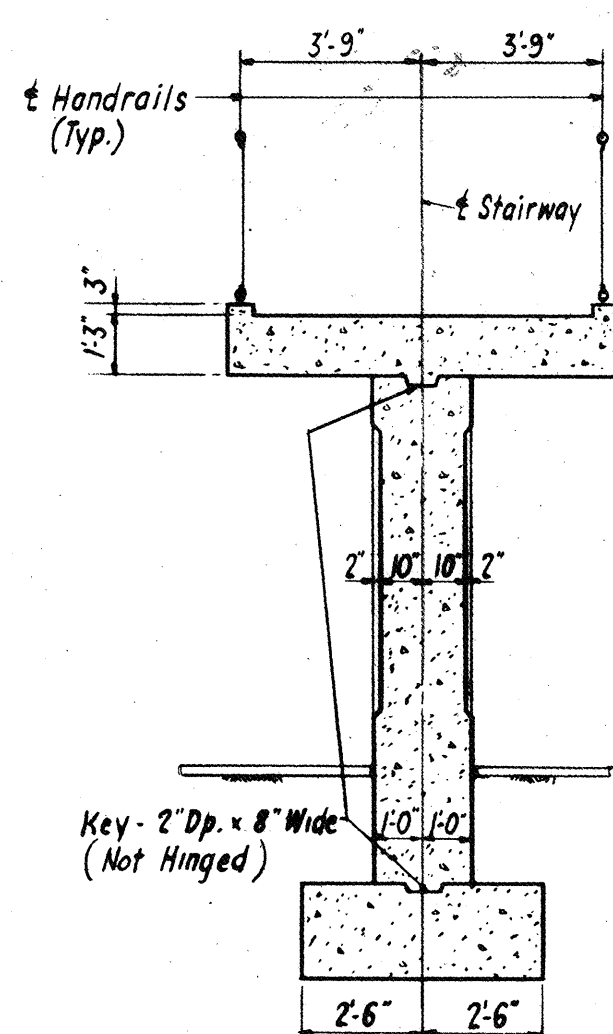
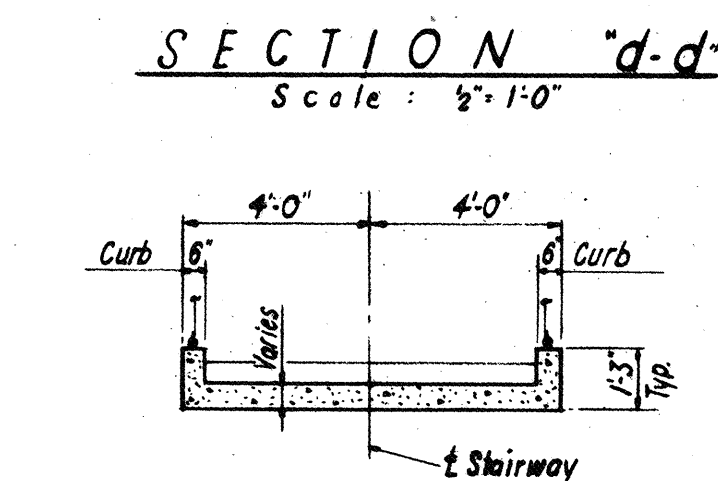
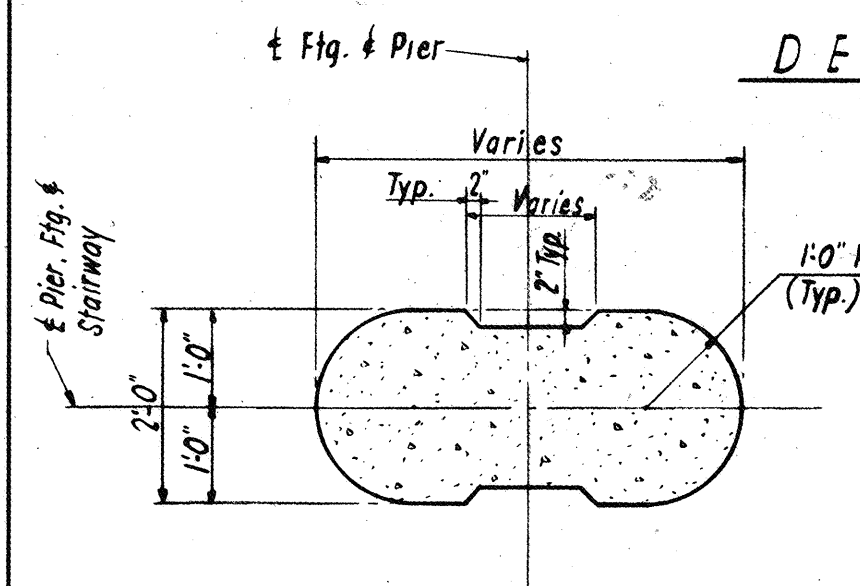
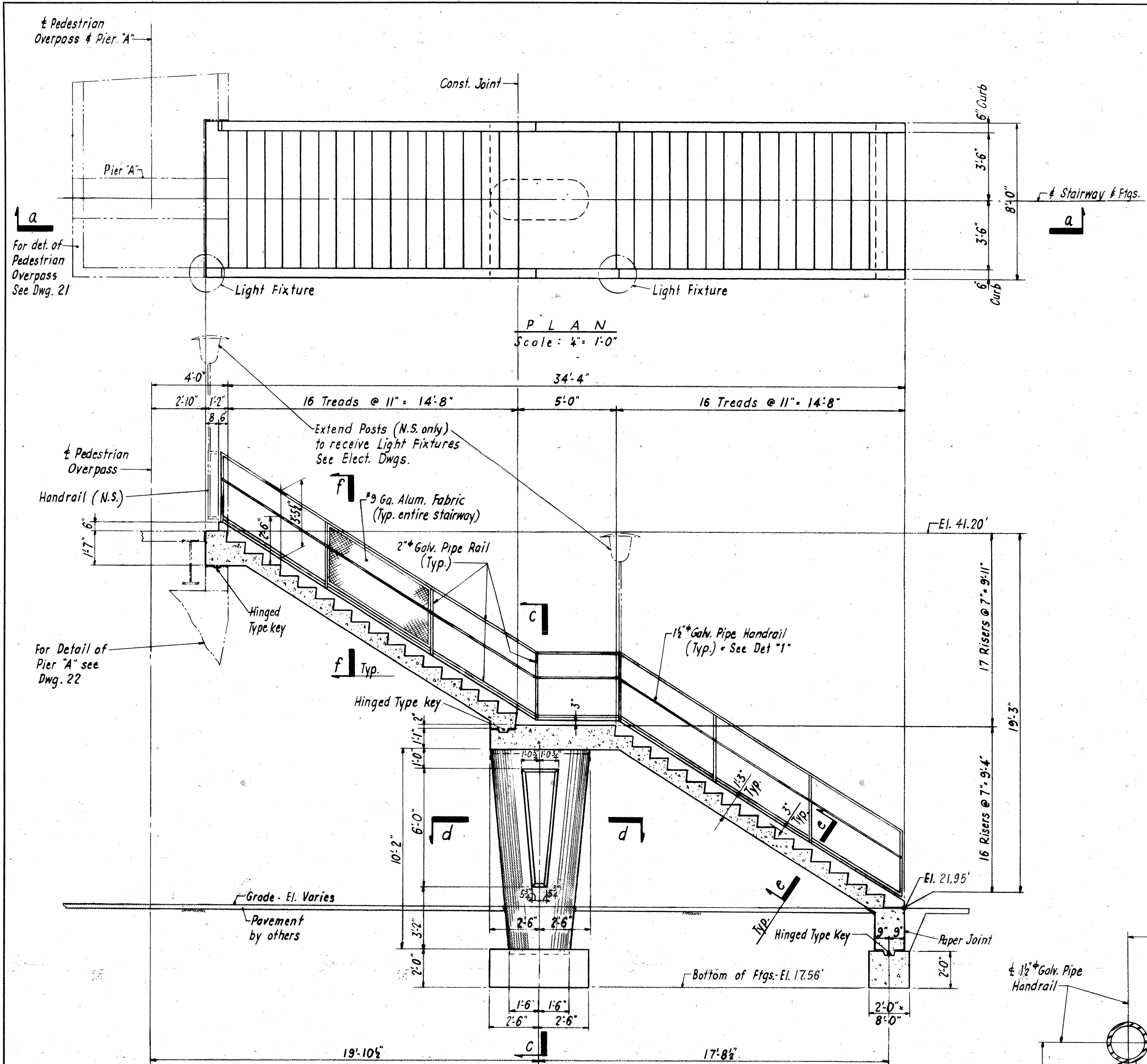
**DETAILS AT PIER "C"**  
Scale: 1/2" = 1'-0"

DO NOT SCALE THIS DRAWING. FOLLOW DIMENSIONS.

AS BUILT



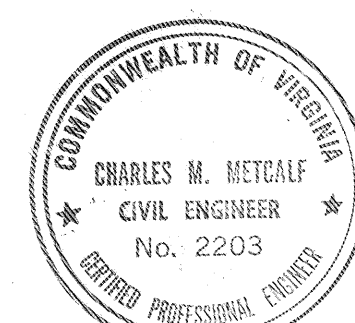




NOTES

1. For detail of Reinforcement see Dwg. 24

WORK THIS DWG. WITH DWG. 24



|   |                       |                 |
|---|-----------------------|-----------------|
| COMMONWEALTH OF VIRGINIA                        |                       |                 |
| CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT       |                       |                 |
| NORFOLK 1, VIRGINIA                             |                       |                 |
| SVERDRUP & PARCEL, CONSULTING ENGINEERS         |                       |                 |
| NEW YORK, N. Y. - ST. LOUIS, MO. - NORFOLK, VA. |                       |                 |
| CHESAPEAKE BAY BRIDGE-TUNNEL CROSSING           |                       |                 |
| NORTH TOLL PLAZA                                |                       |                 |
| PEDESTRIAN OVERPASS                             |                       |                 |
| STAIRWAYS S-1 & S-2 - PLAN & DETAILS            |                       |                 |
| RECOMMENDED:                                    | DRAWN BY: <i>WHEE</i> | SCALE: As Noted |
| CHECKED BY: <i>Wheeler</i>                      | DATE: 1-16-63         |                 |
| APPROVED:                                       | DWG. NO. 23 OF 26     |                 |
| SECTION NO. TF-4                                |                       |                 |

|           |   |          |          |
|-----------|---|----------|----------|
| G.C.      | 1 | 8.14.64  | AS BUILT |
| APPR. NO. |   | REVISION |          |

DO NOT SCALE THIS DRAWING. FOLLOW DIMENSIONS.

AS BUILT.

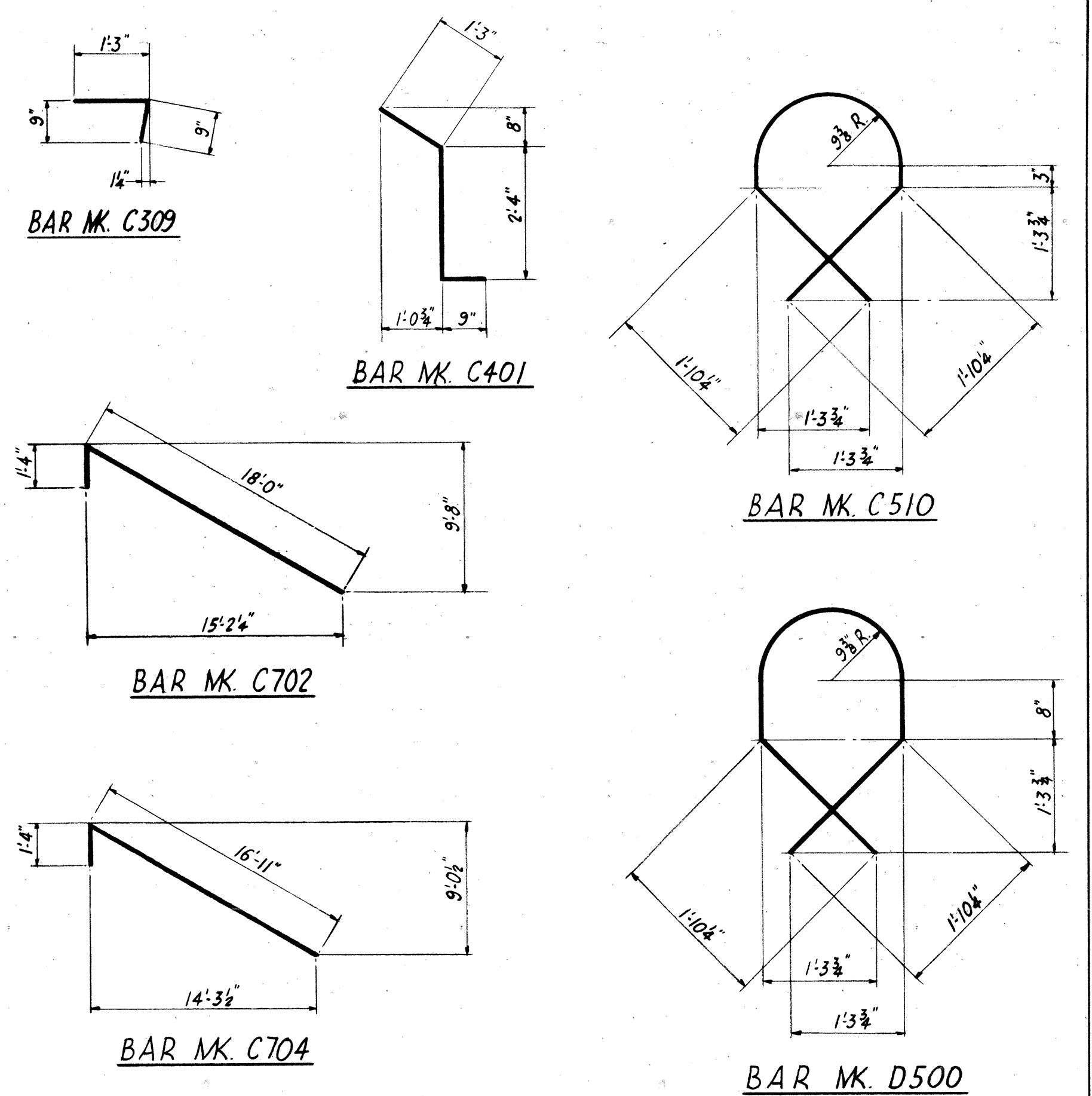


| BAR LIST - PEDESTRIAN OVERPASS SLAB |      |         |      |      |          |                        |       |         |    |   |    |    |         |         |         |
|-------------------------------------|------|---------|------|------|----------|------------------------|-------|---------|----|---|----|----|---------|---------|---------|
| No.<br>Reqd.                        | Size | Length  | Mark | Type | Location | Dimensions for Bending |       |         |    |   |    |    |         |         |         |
|                                     |      |         |      |      |          | A                      | B     | C       | D  | E | F  | G  | H       | J       | O       |
| 220                                 | *3   | 8'-7"   | B300 | 1    | Slab     | 5"                     | 7'-9" |         |    |   |    | 5" |         | 3"      |         |
| 226                                 |      | 3'-0"   | B301 | 17   |          |                        | 7"    | 7'-10"  | 7" |   |    |    |         |         |         |
| 16                                  |      | 7'-10"  | B302 | 17   |          |                        | 7"    | 6'-8"   | 7" |   |    |    |         |         |         |
| 11                                  |      | 7'-5"   | B303 | 1    |          | 5"                     | 6'-7" |         |    |   |    | 5" |         | 3"      |         |
| 28                                  |      | 36'-6"  | B304 | Str. |          |                        |       |         |    |   |    |    |         |         |         |
| 19                                  |      | 15'-8"  | B305 | Str. |          |                        |       |         |    |   |    |    |         |         |         |
| 38                                  |      | 15'-3"  | B306 | Str. |          |                        |       |         |    |   |    |    |         |         |         |
| 19                                  |      | 30'-10" | B307 | Str. |          |                        |       |         |    |   |    |    |         |         |         |
| 5                                   |      | 11'-8"  | B308 | Str. |          |                        |       |         |    |   |    |    |         |         |         |
| 5                                   |      | 23'-6"  | B309 | Str. |          |                        |       |         |    |   |    |    |         |         |         |
| 474                                 |      | 1'-10"  | B310 | SIO  |          |                        | 9"    | 4"      | 9" |   |    |    |         |         |         |
| 5                                   |      | 28'-6"  | B311 | Str. |          |                        |       |         |    |   |    |    |         |         |         |
| 2                                   |      | 5'-0"   | B312 | Str. |          |                        |       |         |    |   |    |    |         |         |         |
| 8                                   |      | 2'-10"  | B313 | 2    |          | 7"                     | 1'-8" |         |    |   | 7" |    | 7'-1/2" |         |         |
| 4                                   |      | 1'-9"   | B314 | Str. |          |                        |       |         |    |   |    |    |         |         |         |
| 6                                   |      | 2'-5"   | B315 | 16   |          |                        | 1'-2" | 8"      | 7" |   |    |    | 6'-1/2" | 3'-1/2" |         |
| 4                                   |      | 2'-11"  | B316 | 17   |          |                        | 7"    | 2'-4"   |    |   |    |    |         |         |         |
| 4                                   |      | 2'-7"   | B317 | 1    |          | 5"                     | 2'-2" |         |    |   |    |    | 3"      |         |         |
| 4                                   |      | 1'-6"   | B318 | Str. |          |                        |       |         |    |   |    |    |         |         |         |
| 6                                   |      | 3'-10"  | B319 | Str. |          |                        | 6"    | 1'-0"   |    |   |    |    |         |         |         |
| 10                                  |      | 1'-6"   | B320 | 17   |          |                        | 1'-0" | 1'-0"   |    |   |    |    |         |         |         |
| 2                                   |      | 2'-0"   | B321 | 17   |          |                        | 1'-0" | 8'-1/2" | 8" |   |    |    | 7"      |         | 4'-1/2" |
| 6                                   | *3   | 2'-5"   | B322 | 4    | Slab     |                        | 1'-0" | 8'-1/2" | 8" |   |    |    | 7"      |         | 4'-1/2" |

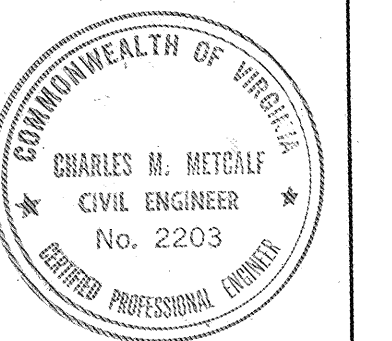
| BAR LIST - PEDESTRIAN OVERPASS STAIRWAYS S-1 & S-2 |      |           |      |         |             |                        |         |            |           |   |     |            |           |             |            |
|--|------|-----------|------|---------|-------------|------------------------|---------|------------|-----------|---|-----|------------|-----------|-------------|------------|
| No.<br>Reqd.                                       | Size | Length    | Mark | Type    | Location    | Dimensions for Bending |         |            |           |   |     |            |           |             |            |
|  |      |           |      |         |             | A                      | B       | C          | D         | E | F   | G          | H         | J           | O          |
| 22   | *7   | 13'-5"    | C700 | 4       | Stairway    |                        | 18'-2"  | 1'-3"      |           |   |     |            | 1'-0 3/4" |             | 8"         |
| 26   |      | 18'-6"    | C701 | Str.    |             |                        |         |            |           |   |     |            |           |             |            |
| 11   |      | 19'-4"    | C702 | Special |             |                        |         |            |           |   |     |            |           |             |            |
| 13   |      | 17'-2"    | C703 | Str.    |             |                        |         |            |           |   |     |            |           |             |            |
| 11   |      | 18'-3"    | C704 | Special |             |                        |         |            |           |   |     |            |           |             |            |
| 13   |      | 16'-2"    | C705 | Str.    | Stairway    |                        |         |            |           |   |     |            |           |             |            |
| 32   |      | 5'-0"     | C706 | 17      | Pier        |                        | 1'-0"   | 4'-0"      |           |   |     |            |           |             |            |
| 20   |      | 12'-2"    | C707 | 17      |             |                        | 1'-0"   | 11'-2"     |           |   |     |            |           |             |            |
| 14   |      | 9'-5"     | C708 | 1       |             | 10"                    | 7'-9"   |            |           |   | 10" | 7"         | 7"        |             |            |
| 26   |      | 7'-9"     | C709 | 17      |             |                        | 1'-0"   | 6'-9"      |           |   |     |            |           |             |            |
| 22   |      | 7'-6"     | C710 | 4       |             |                        | 5'-3"   | 2'-3"      |           |   |     |            | 1'-2 1/2" |             | 1'-10 3/4" |
| 12   | *7   | 13'-6"    | C711 | 17      | Pier        |                        | 2'-3"   | 11'-3"     |           |   |     |            |           |             |            |
| 6  | *5   | 7'-6"     | C500 | Str.    | Fig.        |                        |         |            |           |   |     |            |           |             |            |
| 16   |      | 4'-6"     | C501 | SIO     | Fig.        |                        | 1'-6"   | 1'-6"      | 1'-6"     |   |     |            |           |             |            |
| 12   |      | 7'-8"     | C502 | Str.    | Stairway    |                        |         |            |           |   |     |            |           |             |            |
| 6  |      | 7'-10"    | C503 | Str.    |             |                        |         |            |           |   |     |            |           |             |            |
| 26   |      | 3'-11"    | C504 | SIO     |             |                        | 1'-5"   | 2'-6"      |           |   |     |            |           |             |            |
| 14   |      | 10'-6"    | C505 | 17      | Stairway    |                        | 1'-4"   | 7'-10"     | 1'-4"     |   |     |            |           |             |            |
| 20   |      | 4'-8"     | C506 | Str.    | Fig.        |                        |         |            |           |   |     |            |           |             |            |
| 8  |      | 1'-3"     | C507 | Str.    | Pier        |                        |         |            |           |   |     |            |           |             |            |
| 16   |      | 2'-0"     | C508 | Str.    |             |                        |         |            |           |   |     |            |           |             |            |
| 12   |      | 3'-0"     | C509 | Str.    |             |                        |         |            |           |   |     |            |           |             |            |
| 40   |      | 6'-10"    | C510 | Special |             |                        |         |            |           |   |     |            |           |             |            |
| 8  | *5   | 4'-7"     | C511 | Str.    | Pier        |                        |         |            |           |   |     |            |           |             |            |
| 32   | *4   | 4'-2"     | C400 | 4       | Fig. & Wall |                        | 9'-1/2" | 1'-10 3/4" | 1'-5 1/2" |   |     |            | 1'-4"     |             | 1'-4 1/2"  |
| 22   | *4   | 4'-4"     | C401 | Special | Stairway    |                        |         |            |           |   |     |            |           |             |            |
| 16   | *3   | 2'-2"     | C300 | SIO     | Stairway    |                        | 6"      | 1'-2"      | 6"        |   |     |            |           |             |            |
| 34   |      | 10'-0"    | C301 | 17      |             |                        | 1'-1"   | 7'-10"     | 1'-1"     |   |     |            |           |             |            |
| 30   |      | 8'-7"     | C302 | 1       |             | 5"                     | 7'-9"   |            |           |   | 5"  | 4"         | 3"        | 14'-4"      |            |
| 8  |      | 22'-11"   | C303 | 14      |             | 1'-0"                  | 17'-0"  | 4'-11"     |           |   |     | 9'-1 3/4"  |           | 10"         |            |
| 8  |      | 2'-0"     | C304 | 4       |             |                        |         | 1'-0"      | 1'-0"     |   |     |            | 6'-1/2"   |             |            |
| 2  |      | 17'-8"    | C305 | Str.    |             |                        | 8"      | 16'-6"     |           |   |     | 8'-10 1/2" |           | 13'-11 1/2" |            |
| 4  |      | 17'-8"    | C306 | 4       |             |                        | 11"     | 4'-1/2"    | 11"       |   |     |            |           |             |            |
| 167  |      | 2'-2 1/2" | C307 | SIO     |             |                        |         |            |           |   |     |            |           |             |            |
| 67   |      | 7'-10"    | C308 | Str.    |             |                        |         |            |           |   |     |            |           |             |            |
| 268  |      | 2'-0"     | C309 | Special |             |                        |         |            |           |   |     |            |           |             |            |
| 2  |      | 18'-3"    | C310 | 4       | Stairway    |                        | 8"      | 17'-7"     |           |   |     | 9'-5 3/4"  |           | 14'-11"     |            |
| 8  | *3   | 2'-10"    | C311 | SIO     | Pier        |                        | 7"      | 1'-8"      | 7"        |   |     |            |           |             |            |

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| BAR LIST - PEDESTRIAN OVERPASS PIERS |      |        |      |         |                       |                        |         |        |       |           |       |   |     |    |           |
|--------------------------------------|------|--------|------|---------|-----------------------|------------------------|---------|--------|-------|-----------|-------|---|-----|----|-----------|
| No.<br>Reqd.                         | Size | Length | Mark | Type    | Location              | Dimensions for Bending |         |        |       |           |       |   |     |    |           |
|                                      |      |        |      |         |                       | A                      | B       | C      | D     | E         | F     | G | H   | J  | O         |
| 27                                   | *7   | 13'-6" | D700 | Str.    | Fig. - Piers A, B & C |                        |         |        |       |           |       |   |     |    |           |
| 42                                   |      | 5'-6"  | D701 | Str.    | Fig. - Piers A, B & C |                        |         |        |       |           |       |   |     |    |           |
| 66                                   |      | 9'-6"  | D702 | 17      | Fig. - Piers A, B & C |                        | 1'-0"   | 4'-6"  |       |           |       |   |     |    |           |
| 44                                   |      | 18'-9" | D703 | 17      | Piers A & C           |                        | 1'-0"   | 17'-9" |       |           |       |   |     |    |           |
| 19                                   |      | 18'-9" | D704 | Str.    | Piers A, B & C        |                        |         |        |       |           |       |   |     |    |           |
| 5                                    |      | 4'-8"  | D705 | 17      | Pier A                |                        | 1'-3"   | 2'-7"  | 10"   |           |       |   |     |    |           |
| 5                                    |      | 4'-8"  | D706 | 20      | Pier A                |                        | 1'-3"   | 2'-7"  | 10"   |           |       |   |     |    |           |
| 22                                   | *7   | 13'-9" | D707 | 17      | Pier B                |                        | 1'-0"   | 18'-9" |       |           |       |   |     |    |           |
| 108                                  | *5   | 7'-8"  | D500 | Special | Piers A, B & C        |                        |         |        |       |           |       |   |     |    |           |
| 18                                   |      | 3'-2"  | D501 | Str.    |                       |                        |         |        |       |           |       |   |     |    |           |
| 18                                   |      | 3'-3"  | D502 | Str.    |                       |                        |         |        |       |           |       |   |     |    |           |
| 18                                   |      | 4'-2"  | D503 | Str.    |                       |                        |         |        |       |           |       |   |     |    |           |
| 12                                   |      | 4'-7"  | D504 | Str.    |                       |                        |         |        |       |           |       |   |     |    |           |
| 18                                   |      | 4'-11" | D505 | Str.    |                       |                        |         |        |       |           |       |   |     |    |           |
| 18                                   |      | 5'-4"  | D506 | Str.    |                       |                        |         |        |       |           |       |   |     |    |           |
| 8                                    |      | 5'-10" | D507 | Str.    | Piers A, B & C        |                        |         |        |       |           |       |   |     |    |           |
| 8                                    | *5   | 4'-8"  | D508 | 17      | Pier C                |                        | 2'-0"   | 8"     | 2'-0" |           |       |   |     |    |           |
| 14                                   | *4   | 3'-0"  | D400 | 17      | Piers A, B & C        |                        | 3'-1/2" | 6"     | 2'-6" |           |       |   |     |    |           |
| 18                                   | *4   | 3'-4"  | D401 | 4       | Pier A                |                        |         | 7"     | 1'-5" | 1'-0 3/4" |       |   | 10" | 5" | 1'-1 3/4" |
| 18                                   | *4   | 3'-8"  | D402 | 4       | Pier C                |                        |         | 1'-5"  | 1'-3" | 1'-0"     |       |   | 8"  |    | 1'-0 3/4" |
| 20                                   | *3   | 3'-8"  | D300 | 17      | Piers A, B & C        |                        |         | 1'-0"  | 1'-8" | 1'-0"     |       |   |     |    |           |
| 8                                    |      | 2'-6"  | D301 | 17      | Pier B                |                        |         | 1'-0"  | 6"    | 1'-0"     |       |   |     |    |           |
| 3                                    |      | 5'-8"  | D302 | 17      | Pier A                |                        | 4"      | 10"    | 1'-8" | 10"       | 1'-8" |   | 4"  |    |           |
| 8                                    |      | 4'-6"  | D303 | 17      | Pier A                |                        | 4"      | 10"    | 1'-1" | 10"       | 1'-1" |   | 4"  |    |           |
| 6                                    | *3   | 4'-0"  | D304 | 17      | Pier B                |                        | 4"      | 10"    | 10"   | 10"       | 10"   |   | 4"  |    |           |



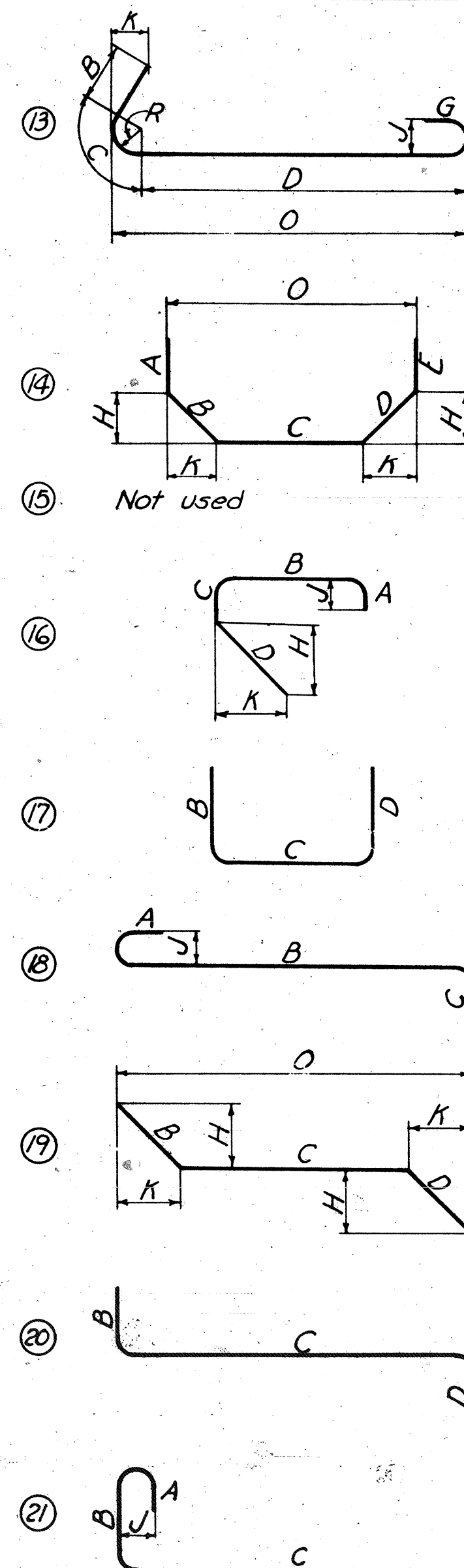
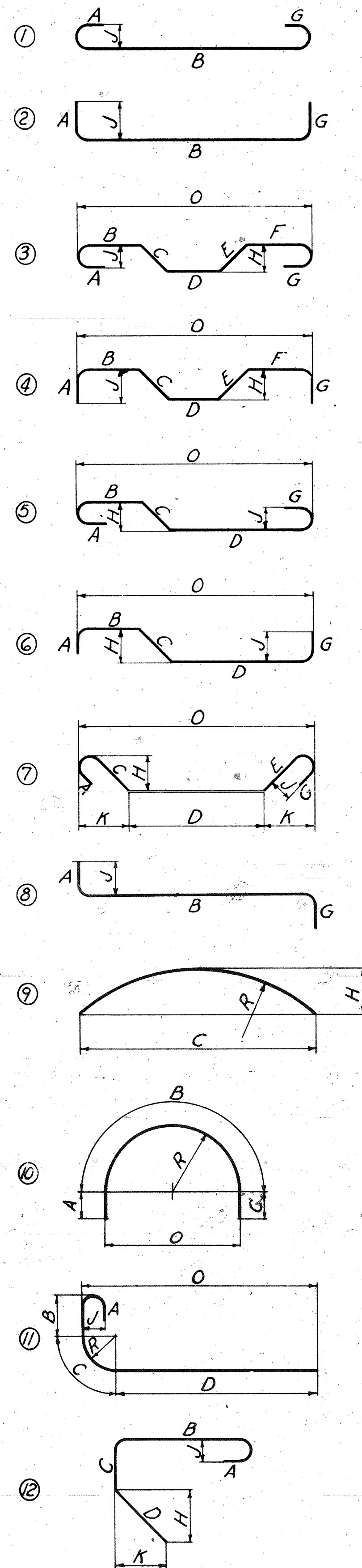
- NOTES
1. A dash is used in the appropriate dimension column to indicate that a hook, bend or portion of the standard bar type is to be omitted.
  2. See Dwg. 26 for Typical Bar Types & Hook Dimensions.
  3. Bars listed as "Special" in the Type column require special bending, see Bending Details.
  4. Dimensioning, bending & hooks for Special Bending Details shall conform to the standards as noted or shown on Dwg. 26.



|  |                                     |
|--|-------------------------------------|
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| CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT  |                                     |
| NORFOLK 1, VIRGINIA  |                                     |
| SVERDRUP & PARCEL, CONSULTING ENGINEERS<br>NEW YORK, N. Y. - ST. LOUIS, MO. - NORFOLK, VA.                             |                                     |
| CHESAPEAKE BAY BRIDGE-TUNNEL CROSSING<br>NORTH TOLL PLAZA<br>PEDESTRIAN OVERPASS<br>BAR LIST & SPECIAL BENDING DETAILS |                                     |
| RECOMMENDED:<br><i>R.E. Eglund</i>   | DRAWN BY: <i>Natter</i> SCALE: NONE |
| CHECKED BY: <i>Toporoff</i>  | DATE: 1-16-63                       |
| APPROVED:<br><i>Ch. Hertzog</i>  | DWG. NO. 25 OF 26                   |
| SECTION NO. TF-4   |                                     |

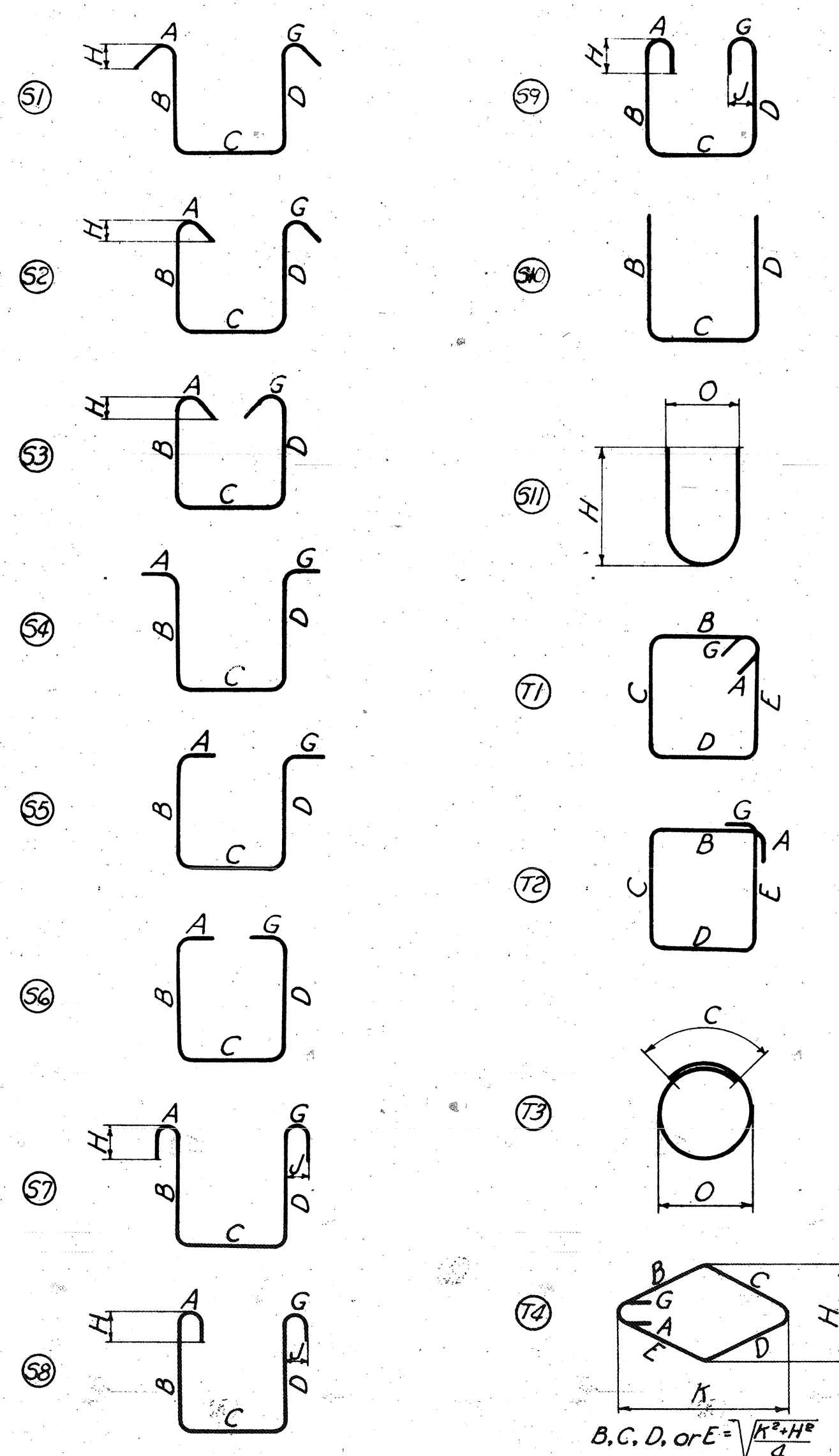
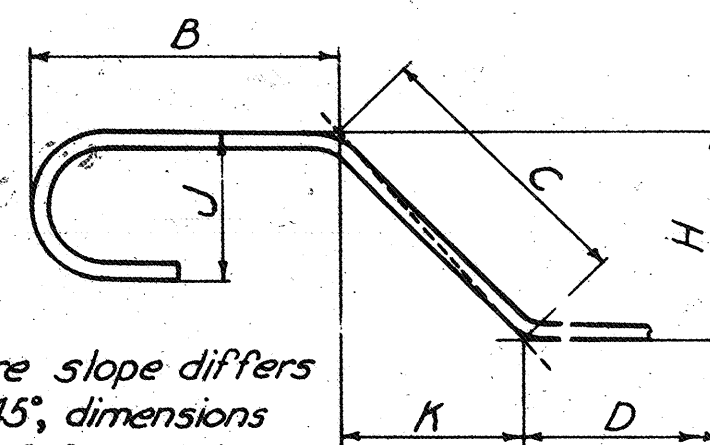
DO NOT SCALE THIS DRAWING. FOLLOW DIMENSIONS.

# TYPICAL BAR TYPES



Where slope differs from 45°, dimensions "H" and "K" must be shown.

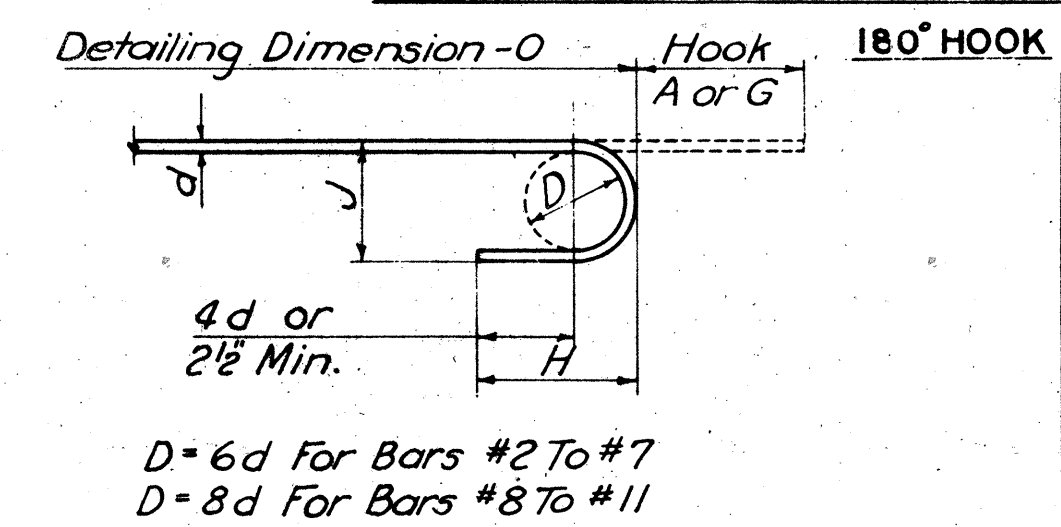
## ENLARGED VIEW SHOWING BAR BENDING DETAILS



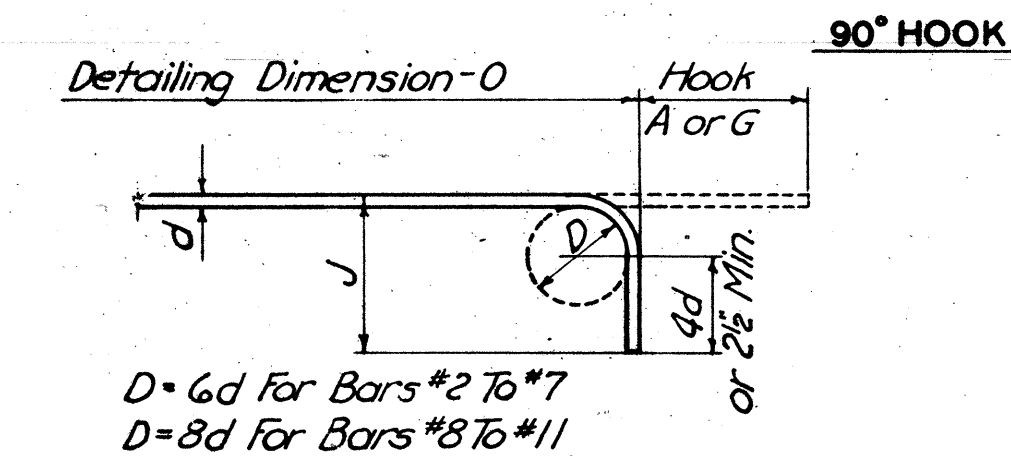
## NOTES

- All dimensions are out to out, except "R" which is to inside of bend.
- "J" Dimension on 180° hooks to be shown in Bar List only where necessary to restrict hook size, otherwise standard hooks are to be used.
- Where "J" is not shown, "J" will be kept equal to or less than "H". Where "J" can exceed "H", it should be shown in Bar List.
- "H" Dimension on stirrups to be shown on Bar List where necessary to restrict hooks.
- Corrections in length, due to bending around a mandrel, will be made only when the radius "R" (as in types 11 and 13) exceeds the standard radii indicated in standard hook dimensions. However, the dimensions "A" or "G" shown for standard hooks have been corrected for curvature.
- All bends shown are bent around a standard mandrel, except where radius "R" is indicated.
- Figures in circles show bar types.
- Where "R" is shown on bar types 9, 10, 11 and 13, the length of bend shall be measured along outside of bend. The length of bar type T3 shall also be measured along outside of bar.

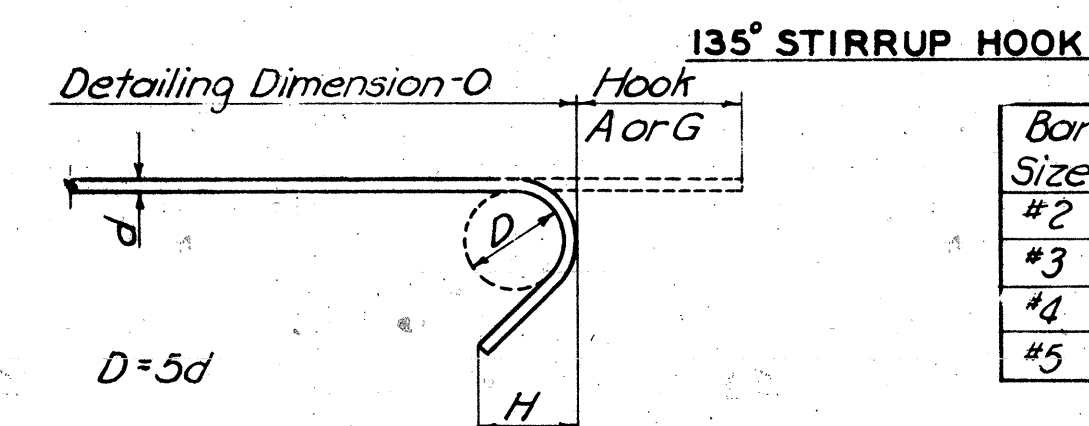
## STANDARD HOOK DIMENSIONS



| Bar Size | Hook A or G | J        | Approx H |
|----------|-------------|----------|----------|
| #2       | 4"          | 2"       | 3 1/2"   |
| #3       | 5"          | 3"       | 4"       |
| #4       | 6"          | 4"       | 4 1/2"   |
| #5       | 7"          | 5"       | 5"       |
| #6       | 8"          | 6"       | 6"       |
| #7       | 10"         | 7"       | 7"       |
| #8       | 1-1"        | 10"      | 9"       |
| #9       | 1-3"        | 11 1/2"  | 10 1/2"  |
| #10      | 1-5"        | 1-0 1/2" | 11 1/2"  |
| #11      | 1-7"        | 1-2"     | 1-0 3/4" |

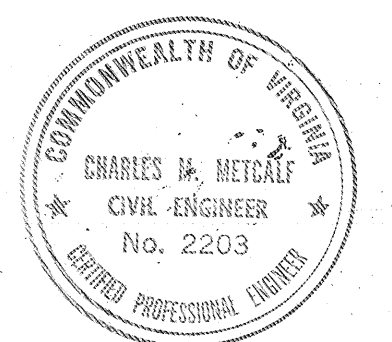


| Bar Size | Hook A or G | J        |
|----------|-------------|----------|
| #2       | 3"          | 3 1/2"   |
| #3       | 3"          | 4"       |
| #4       | 3"          | 4 1/2"   |
| #5       | 4"          | 5"       |
| #6       | 4"          | 6"       |
| #7       | 5"          | 7"       |
| #8       | 6"          | 9"       |
| #9       | 7"          | 10"      |
| #10      | 8"          | 11 1/2"  |
| #11      | 9"          | 1-0 1/2" |



| Bar Size | Hook A or G | H      |
|----------|-------------|--------|
| #2       | 3 1/2"      | 2"     |
| #3       | 4"          | 2 1/4" |
| #4       | 4 1/2"      | 2 1/2" |
| #5       | 5"          | 2 3/4" |

| BAR SIZE EQUIVALENTS |      |     |        |
|----------------------|------|-----|--------|
| #2                   | 1/4" | #7  | 1 1/8" |
| #3                   | 3/8" | #8  | 1"     |
| #4                   | 1/2" | #9  | 1 1/4" |
| #5                   | 5/8" | #10 | 1 3/8" |
| #6                   | 3/4" | #11 | 1 1/2" |



|   |                                       |
|---|---------------------------------------|
| COMMONWEALTH OF VIRGINIA  |                                       |
| CHESAPEAKE BAY BRIDGE AND TUNNEL DISTRICT   |                                       |
| NORFOLK 1, VIRGINIA   |                                       |
| SVERDRUP & PARCEL, CONSULTING ENGINEERS<br>NEW YORK, N. Y. - ST. LOUIS, MO. - NORFOLK, VA.                                |                                       |
| CHESAPEAKE BAY BRIDGE-TUNNEL CROSSING<br>NORTH TOLL PLAZA<br>PEDESTRIAN OVERPASS<br>TYPICAL BAR TYPES AND HOOK DIMENSIONS |                                       |
| RECOMMENDED:<br><i>R.E. Epland</i>  | DRAWN BY: <i>Chavetta</i> SCALE: None |
| CHECKED BY: <i>Legoroff</i>   | DATE: 1-16-63                         |
| APPROVED:<br><i>C. M. Metcalf</i>   | DWG. NO. 26 of 26                     |
| SECTION NO. TF-4  |                                       |

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