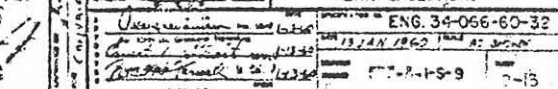
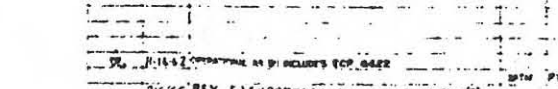
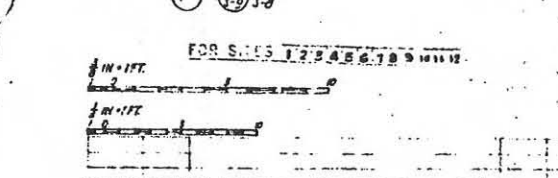
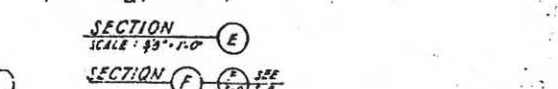
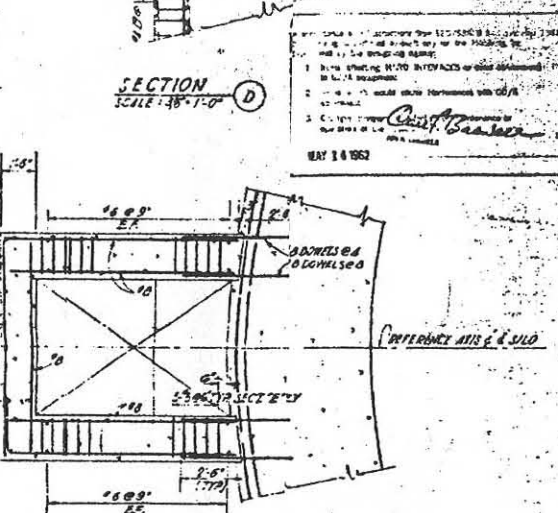
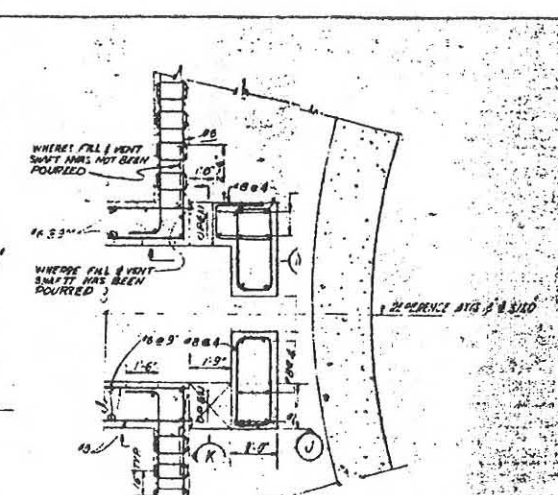
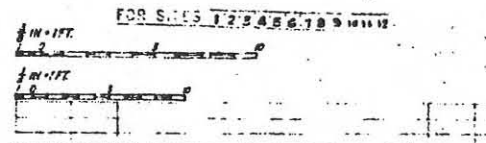


NOTE: ALL BRACING TO BE BANDED



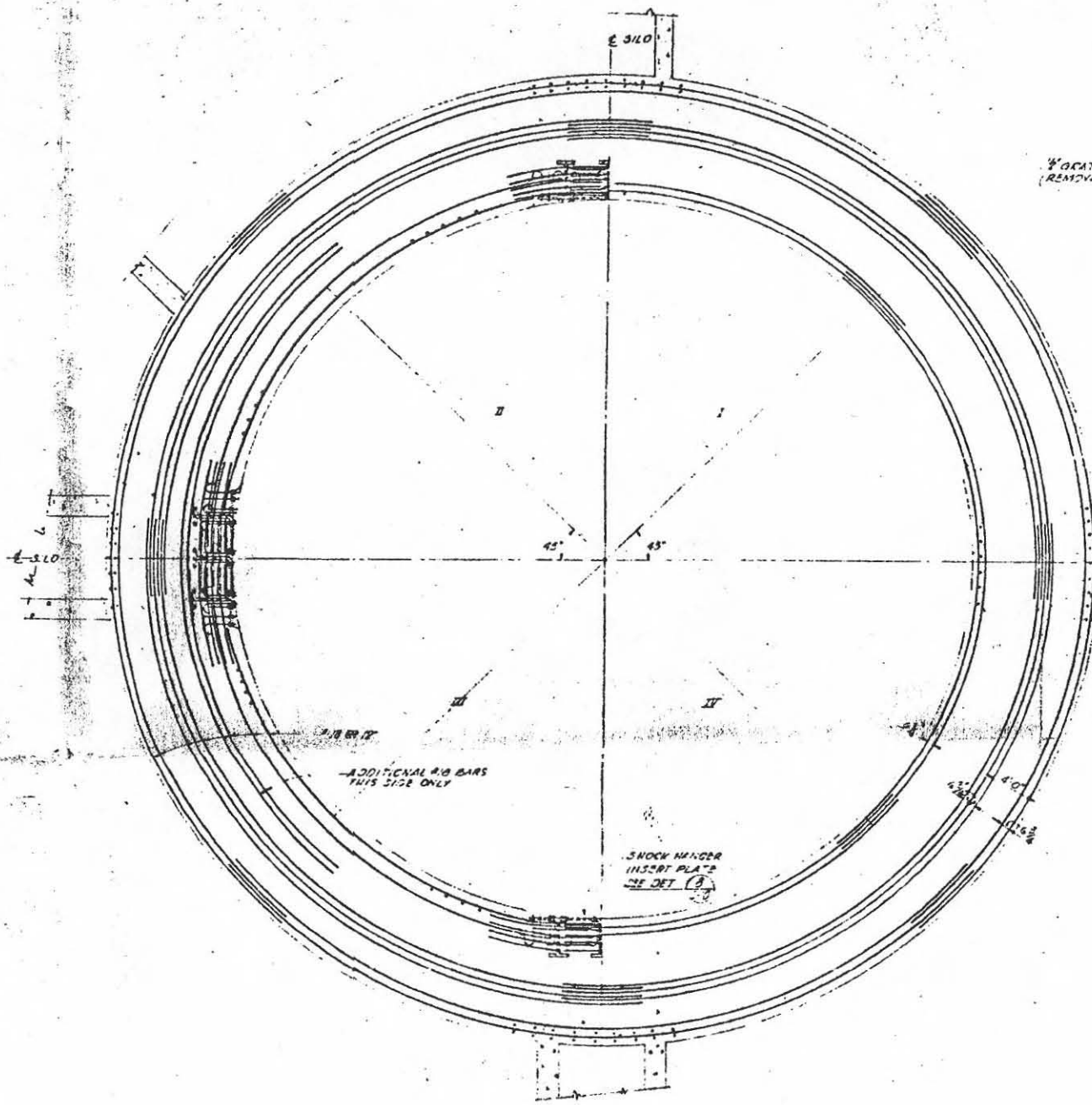
1. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN FEET AND INCHES.  
2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.  
3. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.  
4. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.  
5. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.  
6. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.  
7. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.  
8. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.  
9. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.  
10. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.

Chris Baatman  
MAY 14 1962

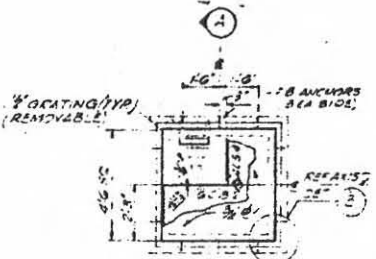


|     |                         |         |
|-----|-------------------------|---------|
| REV | DESCRIPTION             | DATE    |
| 1   | ISSUED FOR CONSTRUCTION | 5/14/62 |
| 2   | ISSUED FOR ALTUS AFB    | 5/14/62 |

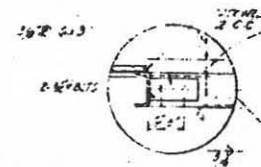
|   |  |
|---|--|
| BECHTEL CORPORATION<br>ENGINEERS AND ARCHITECTS   | DEPARTMENT OF THE AIR FORCE<br>AIR FORCE BALLISTIC MISSILE DIVISION (AMBD) |
| S-107 A-1 OPERATIONAL BASE<br>UNITARY SILD<br>LAUNCHING SILD<br>FILL & VENT LINE SHAFT<br>PLAN & SECTIONS |  |
| DATE: MAY 13 1962   | ENG. 34-066-60-32  |
| BY: [Signature]   | CHKD BY: [Signature]   |
| APP'D BY: [Signature]   | DATE: JAN 1962   |



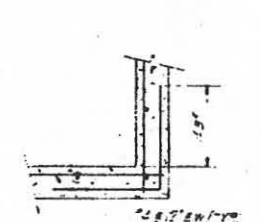
SECTION (E) SEE SCALE 1/4" = 1'-0" S-3 S-1



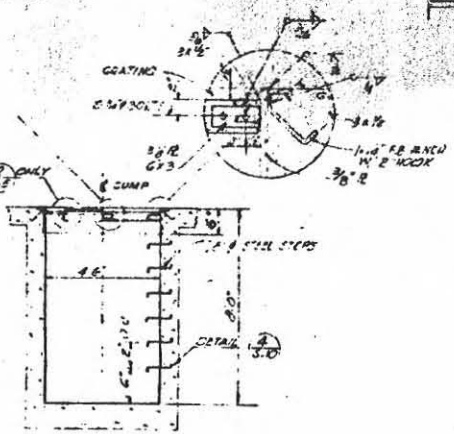
DETAIL 1 S-2 FOR LOCATIONS & DETAILS OF EMBEDED BARS SEE DWG. M-103



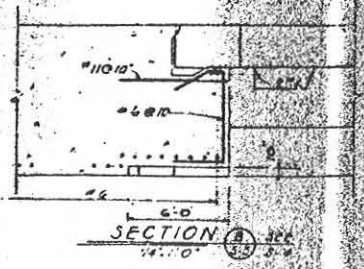
DETAIL 2 S-3



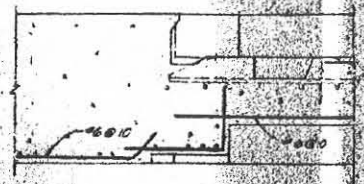
TYPICAL CORNER DETAIL DETAIL 3 NO SCALE



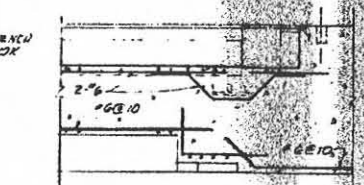
SECTION A 1/8" = 1'-0"



SECTION B 1/8" = 1'-0"



SECTION C 1/8" = 1'-0"



SECTION D 1/8" = 1'-0"

NOTE: RADIAL REIN. STEEL IN SECS IS OMITTED

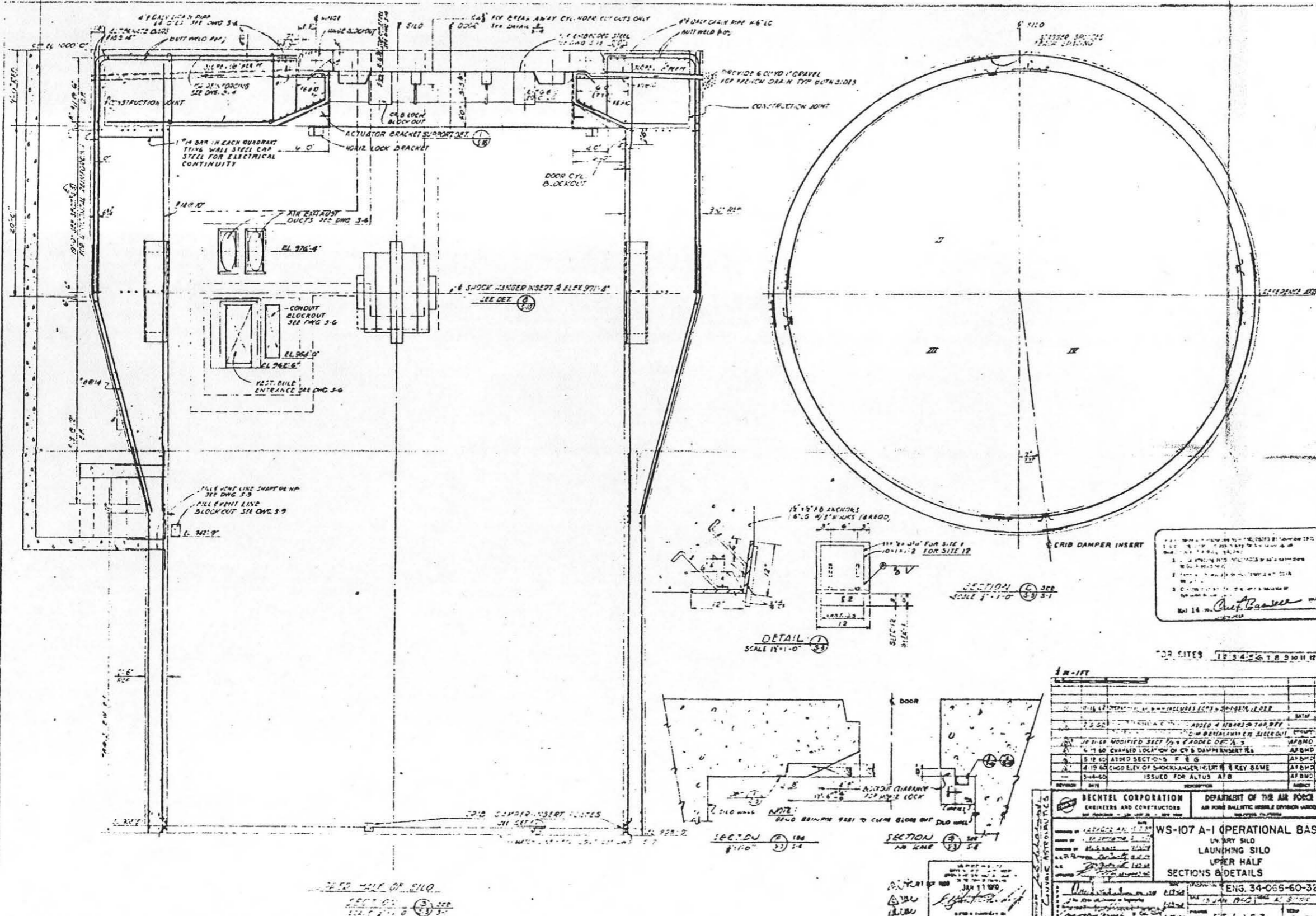
FOR SITES 1125 1126 1127 1128 1129 1130

APPROVED: *[Signature]*  
DATE: MAY 14 1960

1/4" = 1'-0"  
1/8" = 1'-0"

|          |  |      |
|----------|--|------|
| REVISION | DESCRIPTION                            | DATE |
| 1        | ISSUED FOR ALTUS AFB                   |      |
| 2        | MODIFIED SECTION BC & D                |      |
| 3        | REVISED SHOCK ANCHOR INSERT PER DET. 3 |      |

|  |   |
|--|---|
| <b>KHTEL CORPORATION</b><br>ENGINEERS AND ARCHITECTS<br>1200 N. 4TH ST., SUITE 100<br>DENVER, COLORADO 80202 | <b>DEPARTMENT OF THE AIR FORCE</b><br>AIR FORCE BALLISTIC MISSILE DIVISION JAWD<br>4000 JAWD AVENUE<br>DENVER, COLORADO 80231 |
| <b>WS-107 A-1 OPERATIONAL BASE</b><br>UNITARY S&O<br>LAUNCHING S&O<br>MISC. CONC SECTIONS & DETAILS          |   |
| DRAWN BY: <i>[Signature]</i><br>CHECKED BY: <i>[Signature]</i><br>DATE: JAN 13 1960                          | PROJECT NO: <b>ENG. 34-566-60-32</b><br>SHEET NO: <b>2-9</b>  |



| REVISION | DATE | DESCRIPTION                                  | BY | CHKD |
|----------|------|--|----|------|
| 1        |      | ISSUED FOR ALTUS AFB                         |    |      |
| 2        |      | CHANGED LOCATION OF CYL. DAMPER INSERT       |    |      |
| 3        |      | MODIFIED DET. FOR FLOOR DET. A               |    |      |
| 4        |      | ADDED SECTION C & D                          |    |      |
| 5        |      | CHANGED LOCATION OF DAMPER INSERT & REV SAME |    |      |

|   |  |
|---|--|
| BECHTEL CORPORATION<br>ENGINEERS AND CONSTRUCTORS<br>1700 BROADWAY<br>OAKLAND, CALIF. 94612             | DEPARTMENT OF THE AIR FORCE<br>AIR FORCE BALLISTIC MISSILE DIVISION WAFB<br>WRIGHT-PATTERSON AFB<br>OHIO 45433 |
| <b>WS-107 A-1 OPERATIONAL BAS</b><br>UNARY SILO<br>LAUNCHING SILO<br>UPPER HALF<br>SECTIONS B & DETAILS |  |
| DRAWN BY: [Signature]<br>CHECKED BY: [Signature]<br>DATE: JUN 11 1960                                   | PROJECT NO: 34-065-60-32<br>SHEET NO: 2-7  |

Submitted with Dec 19, 19  
 Materials Recovery E

**GENERAL NOTES**

**CONSTRUCTION JOINTS**  
 JOINTS SHALL BE LOCATED AS SHOWN ON DRAWINGS SURFACES OF CONCRETE AT CONSTRUCTION JOINTS SHALL BE WET SURFACES IMMEDIATELY CLEANED BY OTHER MEANS AS NECESSARY TO CONTRACTING OFFICER SO AS TO LEAVE A CLEAN SURFACE OF SOUND CONCRETE EXPOSED BEFORE PLACING SUBSEQUENT POURS OF CONCRETE IMMEDIATELY PRIOR TO PLACING THE NEXT POUR OF CONCRETE, THE CLEANED AND WASHED SURFACE SHALL BE COATED WITH CEMENT MORTAR. REFER TO SPECS FOR ADDITIONAL DETAILS. ADDITIONAL CONSTRUCTION JOINTS ARE PERMISSIBLE EXCEPT IN AREAS NOTED ON THE DRAWINGS. THE LOCATION OF ADDITIONAL CONSTRUCTION JOINTS SHALL BE APPROVED BY THE CONTRACTING OFFICER.

**REINFORCING STEEL-BUTT WELDED JOINTS**  
 REINFORCING STEEL TO BE JOINED IN THE FIELD BY EITHER THE THERMIT WELDING PROCESS OR SHIELDED ARC WELDING METHOD.

THE SELECTION OF WELDING ELECTRODE WILL BE LIMITED TO THE LOW HYDROGEN TYPE.

SPECIAL CARE WILL BE TAKEN TO PREVENT OVER EXPOSURE OF ELECTRODE TO MOISTURE AT ANY TIME.

FIELD APPLICATION DURING HIGH RELATIVE HUMIDITY (40% MAXIMUM) OR TO MANUFACTURER'S RECOMMENDATION) SHALL BE MINIMIZED TO 2 HOURS.

HERMETICALLY SEALED BOXES OR PACKAGES WILL BE USED IN THE FIELD FOR ELECTRODES. OPENED BOXES WILL BE RETURNED TO THE DRYING OVEN.

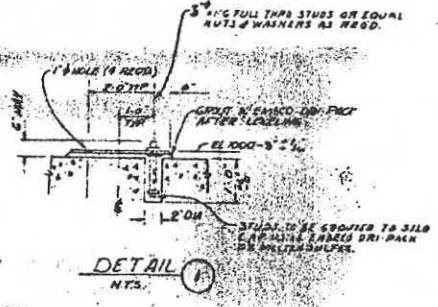
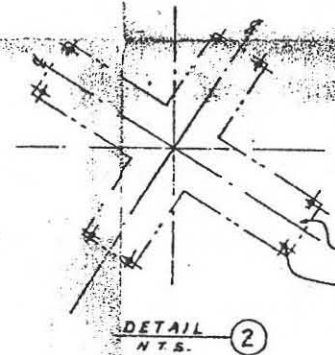
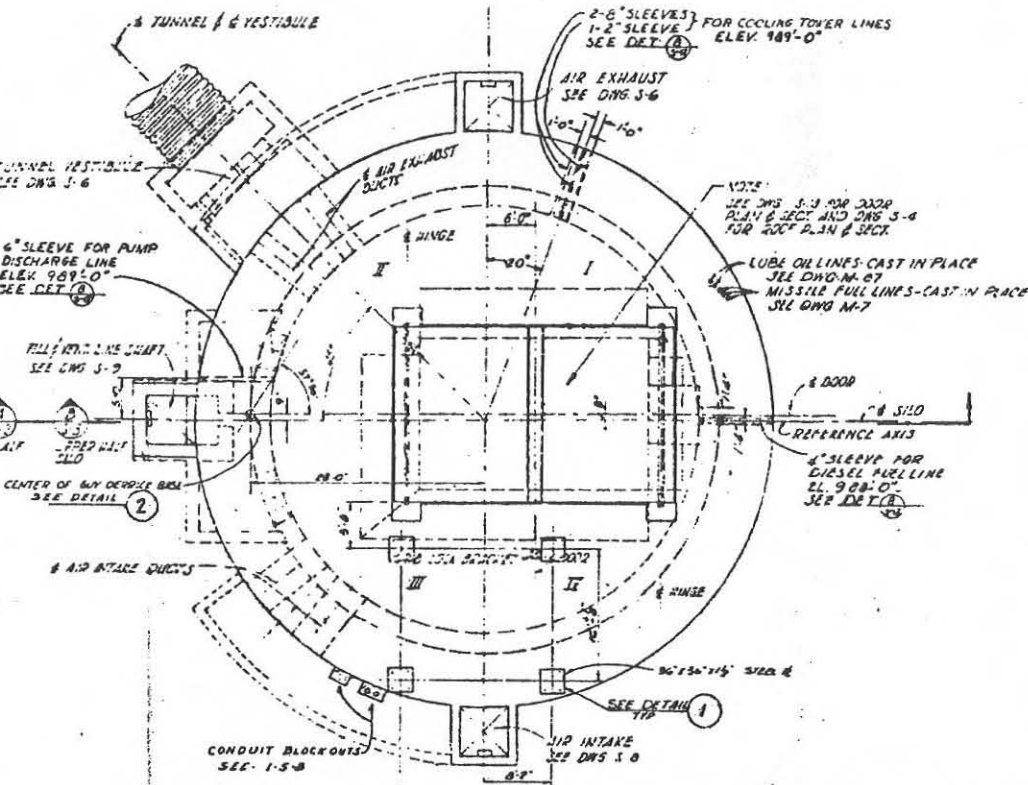
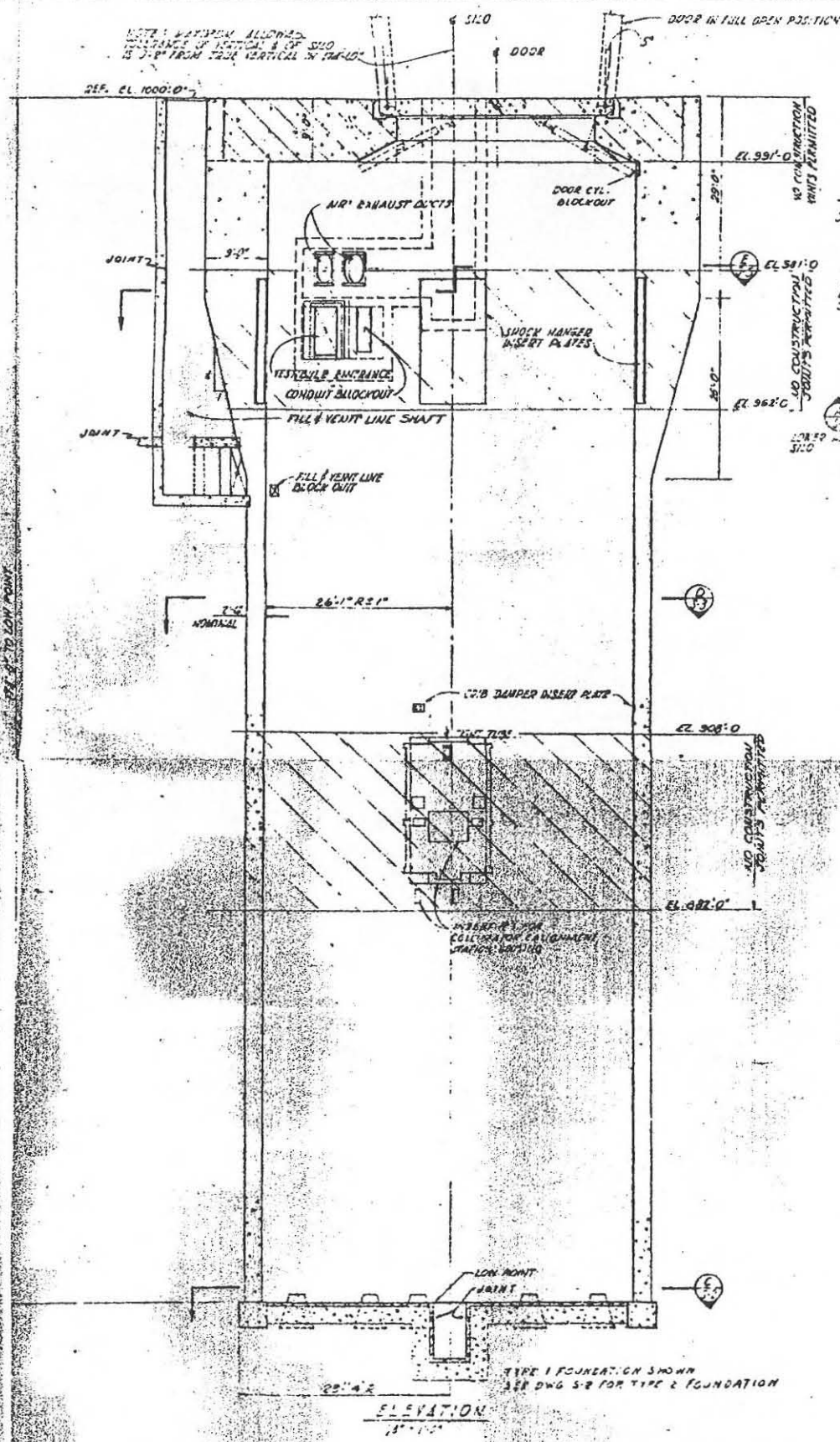
**GENERAL**  
 REFERENCE ELEVATION AT TOP OF SILO EQUALS 1000'-0" FOR ACTUAL ELEVATION AND ORIENTATION OF REFERENCE AXIS SEE CIVIL DRAWINGS.

SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR LOCATION OF EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

SPECIAL PRECAUTIONS SHALL BE TAKEN TO ELIMINATE VOIDS IN THE CONCRETE AROUND THE SHOCK HANGER INSERT PLATE AND THE OVERHEAD DOOR ACTUATOR BRACKETS.

NOTE THE USE OF HIGH STRENGTH REINFORCING STEEL IN THIS OVERHEAD DOOR AND HIGH STRENGTH STEEL BOLTS ON THE DETAILS. SPECIAL PRECAUTIONS SHALL BE TAKEN TO INSURE THEIR PROPER PLACEMENT.

THE MINIMUM CONCRETE STRENGTH IN 28 DAYS SHALL BE 3750 PSI EXCEPT FOR OVERHEAD DOOR SHARD WHICH SHALL BE 5000 PSI.



1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.  
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.  
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.

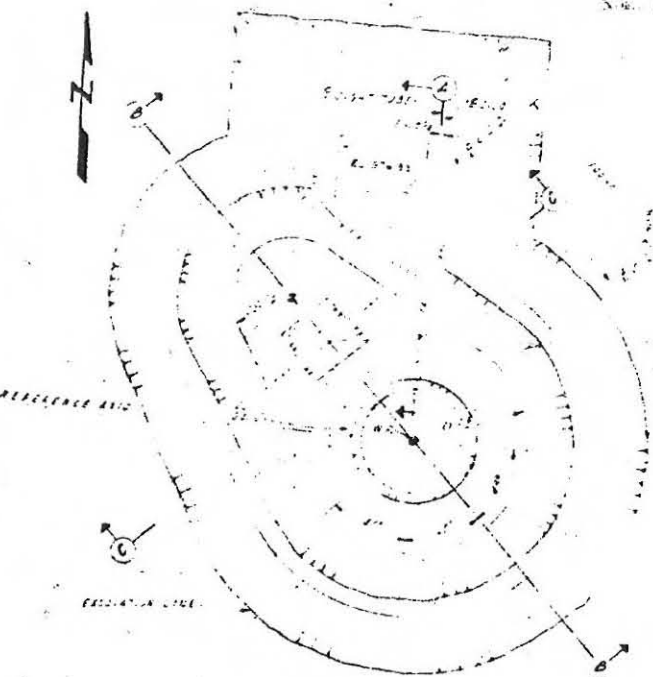
FOR SITES 1 2 3 4 5 6 7 8 9 10 11 12

|   |  |
|---|--|
| <p>REVISIONS</p> <p>NO. DATE DESCRIPTION</p> <p>1 11-17-54 CHANGED FLEY FOR CONST JOINT UNIT</p> <p>2 11-17-54 ISSUED FOR ALT'S A &amp; B</p> | <p>ISSUED FOR ALT'S A &amp; B</p> <p>11-17-54</p> <p>ISSUED FOR ALT'S A &amp; B</p>  |
| <p>BECHTEL CORPORATION</p> <p>ENGINEERS AND CONSTRUCTORS</p>  | <p>DEPARTMENT OF THE AIR FORCE</p> <p>AIR FORCE BALLISTIC MISSILE DIVISION ANDCO</p> |
| <p>PROJECT NO. WS-107 A-1</p> <p>UNITARY SILO</p> <p>LAUNCHING SILO</p> <p>GENERAL PLAN &amp; ELEVATION</p>                                   | <p>ENG. 34-000</p>   |



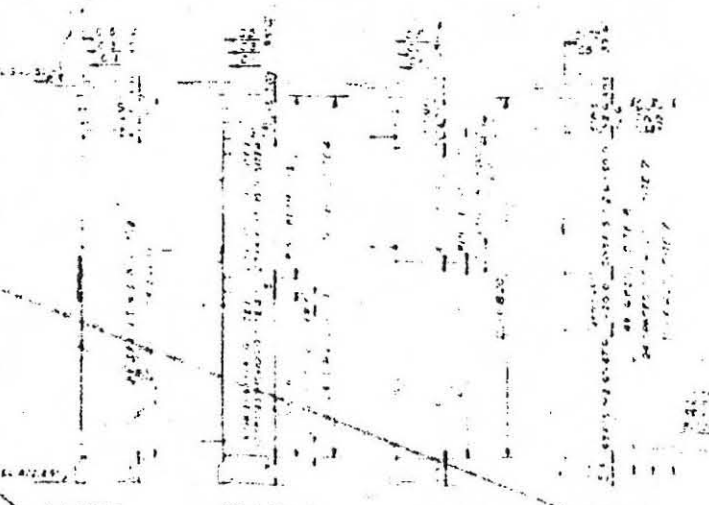
**GENERAL NOTES**

1. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN FEET AND INCHES. DIMENSIONS SHALL BE GIVEN TO THE CENTERLINE UNLESS OTHERWISE SPECIFIED.
2. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE SPECIFIED.
3. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE SPECIFIED.
4. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE SPECIFIED.
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9. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE SPECIFIED.
10. ALL DIMENSIONS SHALL BE TO THE CENTERLINE UNLESS OTHERWISE SPECIFIED.

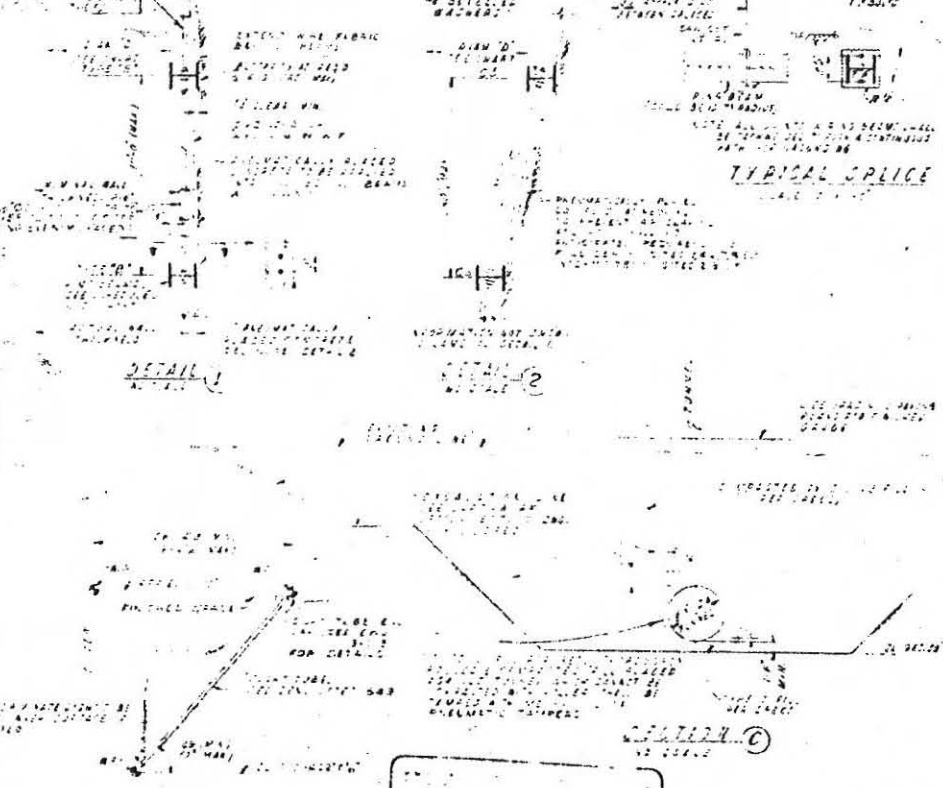


**TYPICAL PLAN**  
NOT SCALE

TEMPORARY CONCRETE  
FORMS OR EQUIV. TO  
HOLD RING BEAMS  
AND P OF SHAFT  
TYPICAL



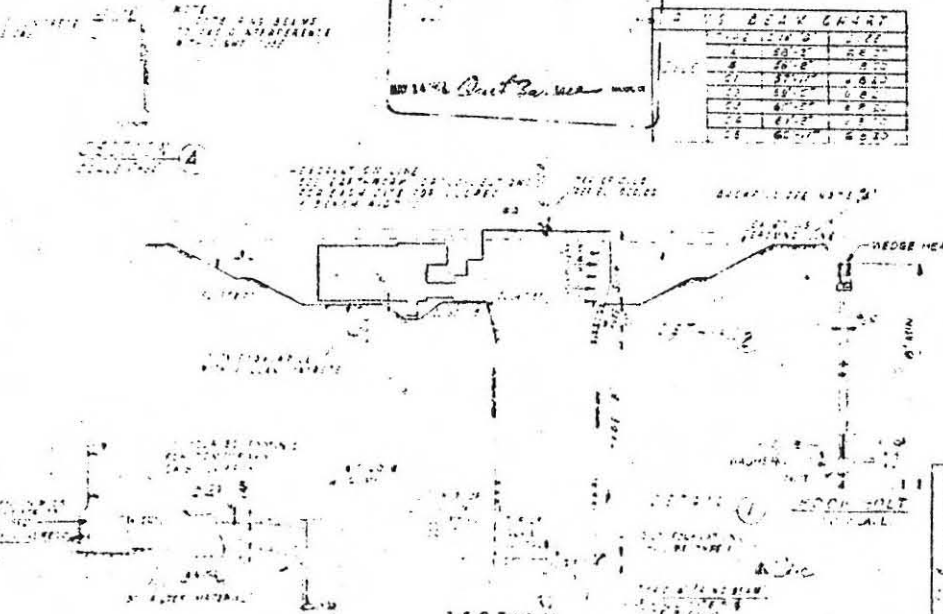
**BEAM LAYOUT SCHEDULE**



**TYPICAL SPlice**

**RING BEAM CHART**

| BEAM NO. | LENGTH  | WIDTH   | HEIGHT |
|----------|---------|---------|--------|
| 1        | 60'-00" | 12'-00" | 4'-00" |
| 2        | 60'-00" | 12'-00" | 4'-00" |
| 3        | 60'-00" | 12'-00" | 4'-00" |
| 4        | 60'-00" | 12'-00" | 4'-00" |
| 5        | 60'-00" | 12'-00" | 4'-00" |
| 6        | 60'-00" | 12'-00" | 4'-00" |
| 7        | 60'-00" | 12'-00" | 4'-00" |
| 8        | 60'-00" | 12'-00" | 4'-00" |
| 9        | 60'-00" | 12'-00" | 4'-00" |
| 10       | 60'-00" | 12'-00" | 4'-00" |



**SECTION A-A**

THIS PLAN ACCOMPANIES CONTRACT NO. 20714-K3-C-3  
MODIFICATION NO.

**REFERENCE DRAWINGS**

| NO.            | DESCRIPTION |
|----------------|-------------|
| 20714-K3-C-1   | SITE PLAN   |
| 20714-K3-C-2   | SITE PLAN   |
| 20714-K3-C-3   | SITE PLAN   |
| 20714-K3-C-4   | SITE PLAN   |
| 20714-K3-C-5   | SITE PLAN   |
| 20714-K3-C-6   | SITE PLAN   |
| 20714-K3-C-7   | SITE PLAN   |
| 20714-K3-C-8   | SITE PLAN   |
| 20714-K3-C-9   | SITE PLAN   |
| 20714-K3-C-10  | SITE PLAN   |
| 20714-K3-C-11  | SITE PLAN   |
| 20714-K3-C-12  | SITE PLAN   |
| 20714-K3-C-13  | SITE PLAN   |
| 20714-K3-C-14  | SITE PLAN   |
| 20714-K3-C-15  | SITE PLAN   |
| 20714-K3-C-16  | SITE PLAN   |
| 20714-K3-C-17  | SITE PLAN   |
| 20714-K3-C-18  | SITE PLAN   |
| 20714-K3-C-19  | SITE PLAN   |
| 20714-K3-C-20  | SITE PLAN   |
| 20714-K3-C-21  | SITE PLAN   |
| 20714-K3-C-22  | SITE PLAN   |
| 20714-K3-C-23  | SITE PLAN   |
| 20714-K3-C-24  | SITE PLAN   |
| 20714-K3-C-25  | SITE PLAN   |
| 20714-K3-C-26  | SITE PLAN   |
| 20714-K3-C-27  | SITE PLAN   |
| 20714-K3-C-28  | SITE PLAN   |
| 20714-K3-C-29  | SITE PLAN   |
| 20714-K3-C-30  | SITE PLAN   |
| 20714-K3-C-31  | SITE PLAN   |
| 20714-K3-C-32  | SITE PLAN   |
| 20714-K3-C-33  | SITE PLAN   |
| 20714-K3-C-34  | SITE PLAN   |
| 20714-K3-C-35  | SITE PLAN   |
| 20714-K3-C-36  | SITE PLAN   |
| 20714-K3-C-37  | SITE PLAN   |
| 20714-K3-C-38  | SITE PLAN   |
| 20714-K3-C-39  | SITE PLAN   |
| 20714-K3-C-40  | SITE PLAN   |
| 20714-K3-C-41  | SITE PLAN   |
| 20714-K3-C-42  | SITE PLAN   |
| 20714-K3-C-43  | SITE PLAN   |
| 20714-K3-C-44  | SITE PLAN   |
| 20714-K3-C-45  | SITE PLAN   |
| 20714-K3-C-46  | SITE PLAN   |
| 20714-K3-C-47  | SITE PLAN   |
| 20714-K3-C-48  | SITE PLAN   |
| 20714-K3-C-49  | SITE PLAN   |
| 20714-K3-C-50  | SITE PLAN   |
| 20714-K3-C-51  | SITE PLAN   |
| 20714-K3-C-52  | SITE PLAN   |
| 20714-K3-C-53  | SITE PLAN   |
| 20714-K3-C-54  | SITE PLAN   |
| 20714-K3-C-55  | SITE PLAN   |
| 20714-K3-C-56  | SITE PLAN   |
| 20714-K3-C-57  | SITE PLAN   |
| 20714-K3-C-58  | SITE PLAN   |
| 20714-K3-C-59  | SITE PLAN   |
| 20714-K3-C-60  | SITE PLAN   |
| 20714-K3-C-61  | SITE PLAN   |
| 20714-K3-C-62  | SITE PLAN   |
| 20714-K3-C-63  | SITE PLAN   |
| 20714-K3-C-64  | SITE PLAN   |
| 20714-K3-C-65  | SITE PLAN   |
| 20714-K3-C-66  | SITE PLAN   |
| 20714-K3-C-67  | SITE PLAN   |
| 20714-K3-C-68  | SITE PLAN   |
| 20714-K3-C-69  | SITE PLAN   |
| 20714-K3-C-70  | SITE PLAN   |
| 20714-K3-C-71  | SITE PLAN   |
| 20714-K3-C-72  | SITE PLAN   |
| 20714-K3-C-73  | SITE PLAN   |
| 20714-K3-C-74  | SITE PLAN   |
| 20714-K3-C-75  | SITE PLAN   |
| 20714-K3-C-76  | SITE PLAN   |
| 20714-K3-C-77  | SITE PLAN   |
| 20714-K3-C-78  | SITE PLAN   |
| 20714-K3-C-79  | SITE PLAN   |
| 20714-K3-C-80  | SITE PLAN   |
| 20714-K3-C-81  | SITE PLAN   |
| 20714-K3-C-82  | SITE PLAN   |
| 20714-K3-C-83  | SITE PLAN   |
| 20714-K3-C-84  | SITE PLAN   |
| 20714-K3-C-85  | SITE PLAN   |
| 20714-K3-C-86  | SITE PLAN   |
| 20714-K3-C-87  | SITE PLAN   |
| 20714-K3-C-88  | SITE PLAN   |
| 20714-K3-C-89  | SITE PLAN   |
| 20714-K3-C-90  | SITE PLAN   |
| 20714-K3-C-91  | SITE PLAN   |
| 20714-K3-C-92  | SITE PLAN   |
| 20714-K3-C-93  | SITE PLAN   |
| 20714-K3-C-94  | SITE PLAN   |
| 20714-K3-C-95  | SITE PLAN   |
| 20714-K3-C-96  | SITE PLAN   |
| 20714-K3-C-97  | SITE PLAN   |
| 20714-K3-C-98  | SITE PLAN   |
| 20714-K3-C-99  | SITE PLAN   |
| 20714-K3-C-100 | SITE PLAN   |

**STATUS-ROGER** DEPARTMENT OF THE AIR FORCE  
WS-1074-1 OPERATIONAL BASE  
UNITARY BLDG  
ALTUS AFB, OKLAHOMA  
ALL SITES  
EXCAVATION PLAN & SECTIONS

CONTRACT NO. ENG-34-056-80-32  
MODIFICATION NO. 20714-K3-C-3