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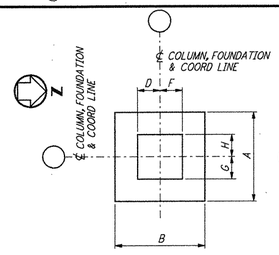
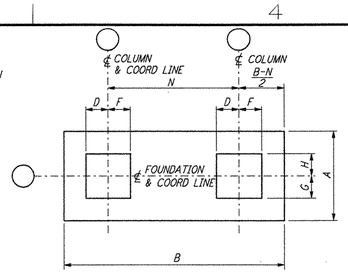
DESIGN FILE: I:\ligo\site\st\was519.dgz




PLAN - TYPE A

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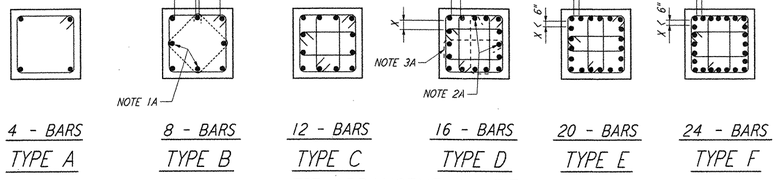
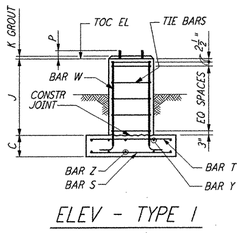


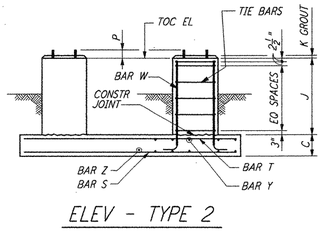

TIE ARRANGEMENT TYPE

### TIE REINFORCEMENT NOTES:

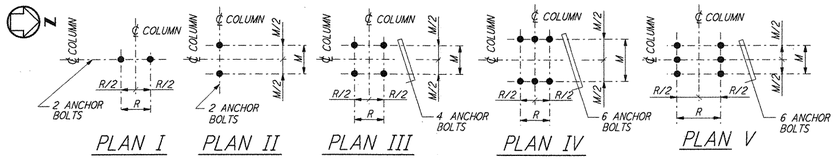
1A. THESE BARS MUST BE TIED AS SHOWN BY DASHED LINES WHEN X DISTANCE IS OVER 6 INCHES.
2A. THESE BARS NEED NOT BE TIED WHEN X DISTANCE IS 6 INCHES OR LESS.
3A. ALTERNATE 90° HOOKS IN COLUMNS.




ELEV - TYPE 1




ELEV - TYPE 2



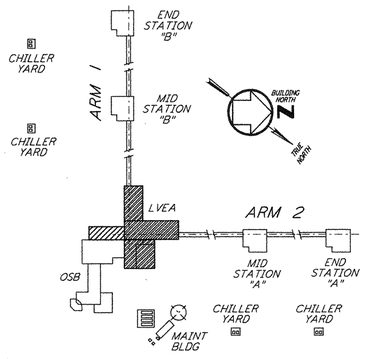

ANCHOR BOLT PLAN

### NOTES:

1. CONSTRUCTION SHALL COMPLY WITH ALL THE REQUIREMENTS OF THE GENERAL NOTES ON DRAWING WA-S-001.
2. THE BAR SPACING IS BASED ON CENTER TO CENTER OF TIE SET.
3. FOR ANCHOR BOLT DETAILS SEE DETAIL 1/W-S-003

| FOUNDATION NO OF FDNS REQD | FOUNDATION LOCATION (COL LINES) | TOP OF CONC EL | FOUNDATION TYPE PLAN | FOUNDATION TYPE ELEV | DIMENSIONS A | B | C | D | F | G | H | J | K | M | R | N | ANCHOR BOLTS ANCHOR BOLT PLAN | TYPE | NO PER PIER | SIZE ∅ | L | P | REINFORCING PER FOUNDATION BAR S NO | BAR S SIZE | BAR Z NO | BAR Z SIZE | BAR T NO | BAR T SIZE | BAR Y NO | BAR Y SIZE | BAR W NO | BAR W SIZE | TIE BAR TYPE | TIE BAR SIZE | TIE BAR NO REQD | CONC CY | FDN LOC PLAN | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | K-5 | 100'-0" | A | 1 | 5'-9" | 5'-9" | 1'-0" | 10" | 10" | 10" | 10" | 1'-8" | 1" | 7" | 7" | —— | III | 2 | 4 | 1" | 1'-4" | 4" | 7 | #5 | 7 | #5 | 7 | #5 | 7 | #5 | 8 | #6 | B | #4 | 4 | 1.3 | WA-S-501 | |
| 1 | K-4 | 100'-0" | A | 1 | 5'-9" | 5'-9" | 1'-0" | 10" | 1'-4½" | 10" | 10" | 1'-8" | 1" | 7" | 7" | —— | III | 2 | 4 | 1" | 1'-4" | 4" | 7 | #5 | 7 | #5 | 7 | #5 | 7 | #5 | 8 | #6 | B | #4 | 4 | 1.3 | WA-S-501 | |
| 1 | P-6 | 100'-0" | A | 1 | 5'-9" | 5'-9" | 1'-0" | 10" | 10" | 1'-4½" | 10" | 1'-8" | 1" | 7" | 7" | —— | III | 2 | 4 | 1" | 1'-4" | 4" | 7 | #5 | 7 | #5 | 7 | #5 | 7 | #5 | 8 | #6 | B | #4 | 4 | 1.3 | WA-S-501 | |
| 1 | P-7 | 100'-0" | A | 1 | 5'-9" | 5'-9" | 1'-0" | 10" | 10" | 1'-4½" | 10" | 1'-8" | 1" | 7" | 7" | —— | III | 2 | 4 | 1" | 1'-4" | 4" | 7 | #5 | 7 | #5 | 7 | #5 | 7 | #5 | 8 | #6 | B | #4 | 4 | 1.3 | WA-S-501 | |
| 1 | L-4 | 100'-0" | B | 2 | 8'-0" | 28'-0" | 2'-0" | 1'-0" | 1'-4½" | 1'-0" | 1'-0" | 2'-0" | 1" | 7" | 7" | 20'-0" | III | 2 | 4 | 1½" | 2'-6" | 6" | 10 | #6 | 33 | #6 | 10 | #6 | 33 | #6 | 8 | #6 | B | #4 | 4 | 16.8 | WA-S-501 | |
| | M-4 | 100'-0" | | | | | | 1'-0" | 1'-4½" | 1'-0" | 1'-0" | 2'-0" | 1" | 7" | 7" | | III | 2 | 4 | 1½" | 2'-6" | 6" | | | | | | | | | 8 | #6 | B | #4 | 4 | | | |
| 1 | N-4 | 100'-0" | — | — | — | — | — | 1'-0" | 1'-4½" | 1'-0" | 1'-0" | 2'-0" | 1" | 7" | 7" | — | III | 2 | 4 | 1½" | 2'-6" | 6" | — | — | — | — | — | — | — | — | 8 | #6 | B | #4 | 4 | 28.7 | WA-S-501 | FOR ADDITIONAL INFORMATION SEE FDN LOCATION PLAN |
| | P-4 | 100'-0" | | | | | | 1'-0" | 1'-4½" | 1'-4½" | 1'-0" | 2'-0" | 1" | 7" | 7" | | III | 2 | 4 | 1½" | 2'-6" | 6" | | | | | | | | | 8 | #7 | B | #4 | 4 | | | |
| | P-5 | 100'-0" | | | | | | 1'-0" | 1'-0" | 1'-4½" | 1'-0" | 2'-0" | 1" | 7" | 7" | | III | 2 | 4 | 1½" | 2'-6" | 6" | | | | | | | | | 8 | #6 | B | #4 | 4 | | | |
| 1 | A-8.7, A-9.7, A-10, B-6, B-10, C-6, C-10, F-3, F-2, G-10, H-13, H-14, H-15, H.7-1, I.7-1, J-1, J-2, J-3, J-6, J-14, J-15, K-6, K-10, N-8, P-10 | — | — | — | — | — | — | — | — | — | — | — | 1" | 7" | 7" | — | III | 2 | 4 | 1" | 1'-4" | 4" | — | — | — | — | — | — | — | — | — | — | — | — | — | — | WA-S-501 | FOR ADDITIONAL INFORMATION SEE FDN LOCATION PLAN |
| 1 | A-6, A-7, A-8, D-6, D-10, E-6, E-10, F-1, F-4, F-5, F-6, F-10, G-1, H-1, H-10, H-11, H-12, H-16, I-16, J-4, J-5, J-10, J-11, J-12, J-13, J-16, K-7, K-8, L-8, L-10, M-8, M-10, N-10 P-8, P-9, | — | — | — | — | — | — | — | — | — | — | — | 1" | 7" | 7" | — | III | 2 | 4 | 1½" | 2'-6" | 6" | — | — | — | — | — | — | — | — | — | — | — | — | — | — | WA-S-501 | FOR ADDITIONAL INFORMATION SEE FDN LOCATION PLAN |

LVEA - CORNER STATION
(FOR 3 INTERFEROMETER DESIGN)




KEY PLAN

**LIGO-D960340-01-O**

| REFERENCES | | REVISIONS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| DRAWING NO. | DESCRIPTION | NO. | DATE | BY | CHKD | ENGR | PROJ | DESCRIPTION |
| | | 1 | 6-15-98 | CKT | BP | BP | BP | ISSUED FOR AS-BUILT |

| ISSUED FOR CONSTRUCTION | | |
|---|---|---|
| DRAWN | MCS | 6-24-96 |
| CHECKED | DDM | 7-2-96 |
| ENGINEER | BP | 6-28-96 |
| PROJ | MDW | 7-9-96 |

**AS-BUILT DRAWINGS**

PARSONS
100 WEST WALNUT STREET
PASADENA, CALIFORNIA

LIGO
CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER
GRAVITATIONAL-WAVE OBSERVATORY
SITE NO. 1 - HANFORD, WASHINGTON

TITLE: **STRUCTURAL CORNER STATION LVEA FOUNDATION SCHEDULE**

| SCALE | CONTRACT NUMBER | PROJECT NUMBER |
|---|---|---|
| NONE | PP150969 | 8094 |

SHEET NUMBER: **WA-S-519** REVISIONS: 1

LIGOWAF.BDR

Mon Jul 06 16:56:07 1998 C:\PLOT\OUE\S3-V3682.OCF 52085 K:V3682\ss519.pdf