

# AREA DRAIN TABLE

## AREA DRAIN ---A

| DESCRIPTION | UPSTREAM        |        |       | DOWNSTREAM      |        |        | LENGTH<br>IN FEET | SIZE<br>IN INCHES | SLOPE   |
|-------------|-----------------|--------|-------|-----------------|--------|--------|-------------------|-------------------|---------|
|             | GRATE<br>or CAP | INVERT | COVER | GRATE<br>or CAP | INVERT | COVER  |                   |                   |         |
| AD #A1      | 105.40          | 102.40 | 2.85  | CO #A1          | 105.60 | 100.50 | 4.75              | 55                | 4 0.035 |
| AD #A2      | 106.30          | 102.95 | 3.00  | AD #A1          | 105.40 | 102.40 | 2.65              | 52                | 4 0.011 |
| AD #A3      | 106.45          | 103.45 | 2.65  | AD #A2          | 106.30 | 102.95 | 3.00              | 46                | 4 0.011 |
| AD #A5      | 103.77          | 99.00  | 4.24  | AD #A1          | 102.67 | 98.50  | 3.64              | 57                | 6 0.009 |
| AD #A6      | 103.85          | 100.00 | 3.32  | AD #A5          | 103.77 | 99.00  | 4.24              | 75                | 6 0.013 |
| CO #A1      | 105.60          | 100.50 | 4.75  | AD #A6          | 103.85 | 100.00 | 3.50              | 47                | 4 0.011 |
| AD #A8      | 104.70          | 100.85 | 3.50  | CO #A1          | 105.60 | 100.50 | 4.75              | 36                | 4 0.010 |
| AD #A9      | 104.70          | 101.20 | 3.15  | AD #A8          | 104.70 | 100.85 | 3.50              | 33                | 4 0.011 |
| AD #A10     | 104.70          | 101.75 | 2.60  | AD #A9          | 104.70 | 101.20 | 3.15              | 44                | 4 0.012 |
| AD #A2      | 103.75          | 100.50 | 2.90  | CO #A3          | 101.21 | 100.25 | 0.61              | 16                | 4 0.016 |
| AD #A4      | 103.70          | 100.75 | 2.60  | AD #A3          | 101.21 | 100.50 | 0.85              | 16                | 4 0.016 |
| AD #A3      | 101.70          | 100.50 | 0.85  | CO #A3          | 101.21 | 99.00  | 1.86              | 53                | 4 0.028 |
| AD #A14     | 101.80          | 99.50  | 1.75  | AD #A1          | 102.67 | 98.50  | 3.82              | 94                | 4 0.011 |
| AD #A1      | 102.67          | 98.50  | 3.64  | CI #1           | 101.16 | 98.00  | 2.63              | 27                | 6 0.019 |
| CO #A3      | 101.21          | 99.00  | 1.86  | AD #A1          | 102.67 | 98.50  | 3.82              | 46                | 4 0.011 |
| AD #A7      | 102.34          | 99.50  | 2.49  | CO #A3          | 101.21 | 99.00  | 1.86              | 50                | 4 0.010 |

## AREA DRAIN ---B

|        |        |        |      |        |        |        |      |    |         |
|--------|--------|--------|------|--------|--------|--------|------|----|---------|
| AD #B1 | 102.20 | 101.45 | 0.40 | AD #B2 | 102.34 | 101.30 | 0.69 | 17 | 4 0.009 |
| AD #B2 | 102.34 | 101.30 | 0.69 | AD #B3 | 101.89 | 101.10 | 0.44 | 25 | 4 0.008 |
| AD #B3 | 101.89 | 101.10 | 0.44 | CURB   | 101.39 | 101.00 | 0.04 | 45 | 4 0.002 |

## AREA DRAIN ---C

|         |        |        |      |         |        |        |      |    |         |
|---------|--------|--------|------|---------|--------|--------|------|----|---------|
| AD #C1  | 106.64 | 103.50 | 2.79 | AD #C2  | 106.64 | 103.34 | 2.95 | 15 | 4 0.011 |
| AD #C2  | 106.64 | 103.34 | 2.95 | AD #C3  | 106.30 | 102.95 | 2.00 | 13 | 4 0.030 |
| AD #C3  | 106.30 | 102.95 | 2.00 | CO #C4  | 106.50 | 102.75 | 3.40 | 14 | 4 0.014 |
| CO #C4  | 106.50 | 102.75 | 3.40 | CO #C1  | 106.00 | 101.90 | 3.75 | 33 | 4 0.028 |
| AD #C4  | 106.35 | 102.50 | 2.50 | AD #C5  | 106.35 | 102.40 | 2.75 | 7  | 4 0.014 |
| AD #C5  | 106.35 | 102.40 | 2.60 | CO #C1  | 106.00 | 102.00 | 3.45 | 16 | 4 0.013 |
| CO #C1  | 106.00 | 102.00 | 3.27 | AD #C6  | 106.30 | 101.90 | 3.87 | 31 | 6 0.010 |
| AD #C6  | 106.30 | 101.90 | 3.87 | CO #C2  | 106.25 | 101.55 | 4.17 | 53 | 6 0.007 |
| AD #C7  | 106.30 | 103.00 | 2.95 | CO #C2  | 106.25 | 101.55 | 4.17 | 26 | 4 0.056 |
| AD #C8  | 106.40 | 102.50 | 2.55 | CO #C3  | 106.10 | 102.25 | 4.17 | 25 | 4 0.010 |
| CO #C3  | 106.10 | 102.25 | 3.50 | AD #C10 | 106.34 | 101.45 | 4.17 | 80 | 4 0.010 |
| CO #C2  | 106.25 | 101.55 | 4.35 | AD #C10 | 106.34 | 101.25 | 4.17 | 35 | 4 0.009 |
| AD #C10 | 106.34 | 101.25 | 4.55 | CI #1   | 105.07 | 101.00 | 4.17 | 34 | 6 0.007 |

## AREA DRAIN ---D

| DESCRIPTION | UPSTREAM        |        |       | DOWNSTREAM      |        |        | LENGTH<br>IN FEET | SIZE<br>IN INCHES | SLOPE   |
|-------------|-----------------|--------|-------|-----------------|--------|--------|-------------------|-------------------|---------|
|             | GRATE<br>or CAP | INVERT | COVER | GRATE<br>or CAP | INVERT | COVER  |                   |                   |         |
| AD #D1      | 106.80          | 104.10 | 1.35  | AD #D2          | 106.10 | 103.75 | 2.00              | 34                | 4 0.010 |
| AD #D2      | 106.10          | 103.75 | 2.00  | AD #D3          | 106.20 | 103.60 | 2.25              | 13                | 4 0.012 |
| AD #D3      | 106.20          | 103.60 | 2.25  | AD #D4          | 106.77 | 103.40 | 3.02              | 17                | 4 0.012 |
| AD #D4      | 106.77          | 103.40 | 3.02  | AD #D5          | 106.77 | 103.10 | 3.32              | 16                | 4 0.019 |
| AD #D5      | 106.77          | 103.10 | 3.32  | CI #2           | 105.71 | 102.30 | 3.06              | 29                | 4 0.028 |

## AREA DRAIN ---E

|        |        |        |      |           |        |        |      |    |         |
|--------|--------|--------|------|-----------|--------|--------|------|----|---------|
| AD #E1 | 111.20 | 107.10 | 3.75 | AD #E2    | 108.30 | 106.65 | 2.30 | 44 | 4 0.010 |
| AD #E2 | 108.30 | 106.65 | 2.40 | CO #E1    | 109.20 | 105.80 | 3.05 | 15 | 4 0.010 |
| CO #E1 | 109.20 | 105.80 | 3.05 | CI on 9th | 108.30 | 105.60 | 2.35 | 22 | 4 0.009 |

## AREA DRAIN ---F

|         |        |        |      |         |        |        |      |    |         |
|---------|--------|--------|------|---------|--------|--------|------|----|---------|
| AD #F17 | 111.85 | 108.85 | 2.65 | AD #F16 | 111.85 | 108.50 | 3.00 | 35 | 4 0.010 |
| AD #F16 | 111.85 | 108.50 | 3.00 | AD #F11 | 111.50 | 107.95 | 3.20 | 57 | 4 0.010 |
| AD #F15 | 109.90 | 106.90 | 2.65 | AD #F14 | 110.50 | 106.60 | 3.55 | 29 | 4 0.010 |
| AD #F14 | 110.50 | 106.60 | 3.55 | AD #F13 | 110.60 | 106.20 | 4.05 | 39 | 4 0.010 |
| AD #F13 | 110.60 | 106.20 | 4.05 | AD #F12 | 110.35 | 105.70 | 4.30 | 48 | 4 0.010 |
| AD #F12 | 110.35 | 105.70 | 4.30 | AD #F11 | 111.50 | 105.95 | 5.59 | 14 | 4 0.010 |
| AD #F11 | 111.50 | 105.95 | 5.41 | CO #F1  | 108.16 | 104.85 | 2.78 | 75 | 6 0.009 |
| AD #F8  | 107.86 | 104.85 | 2.66 | AD #F7  | 107.90 | 104.50 | 3.05 | 31 | 4 0.011 |
| AD #F7  | 107.90 | 104.50 | 3.05 | CO #F1  | 108.16 | 104.30 | 3.51 | 15 | 4 0.013 |
| CO #F1  | 108.16 | 104.30 | 3.33 | AD #F4  | 107.50 | 103.65 | 3.32 | 63 | 6 0.010 |
| AD #F5  | 107.50 | 103.90 | 3.25 | AD #F4  | 107.50 | 103.70 | 3.45 | 20 | 4 0.010 |
| AD #F4  | 107.50 | 103.70 | 3.27 | AD #F3  | 107.20 | 103.40 | 3.27 | 27 | 6 0.011 |
| AD #F3  | 107.20 | 103.40 | 3.27 | AD #F2  | 107.10 | 103.00 | 3.57 | 35 | 6 0.011 |
| AD #F2  | 107.10 | 103.00 | 3.57 | AD #F1  | 107.30 | 102.60 | 4.17 | 17 | 6 0.024 |
| AD #F10 | 106.95 | 103.80 | 2.62 | AD #F9  | 106.95 | 103.35 | 3.07 | 46 | 6 0.010 |
| AD #F2  | 107.10 | 103.00 | 3.57 | AD #F1  | 107.30 | 102.60 | 4.17 | 20 | 6 0.020 |
| AD #F1  | 107.30 | 101.70 | 4.91 | CM2     | 105.71 | 101.00 | 4.02 | 50 | 8 0.014 |

## AREA DRAIN ---G

|        |        |        |      |        |        |        |      |    |         |
|--------|--------|--------|------|--------|--------|--------|------|----|---------|
| AD #G1 | 103.10 | 102.60 | 0.15 | AD #G2 | 103.00 | 102.50 | 0.15 | 27 | 4 0.004 |
| AD #G2 | 103.00 | 102.50 | 0.15 | CURB   | 102.91 | 102.45 | 0.11 | 26 | 4 0.002 |

## RECORD DRAWINGS

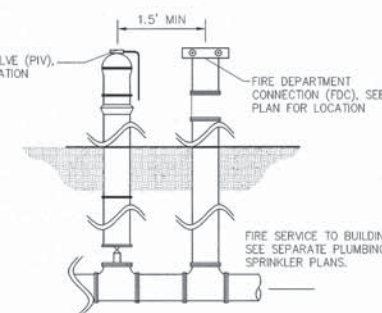
These Record Drawings have been prepared based on information submitted by others, partially or totally. While this information is believed to be reliable, Ruggeri-Jensen-Azar & Associates is not responsible for its accuracy, nor for errors or omissions which may have been incorporated into these documents as a result.

*[Signature]* 49692 9/30/14  
RCE No. Exp. Date  
Date: 6/10/14

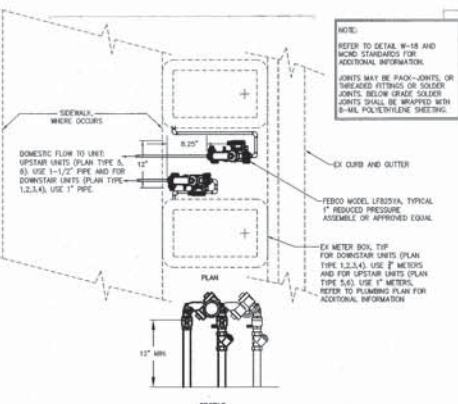
CITY OF MARINA, CALIFORNIA  
REVIEWED BY:

DATE

0 30 60 60  
SCALE IN FEET: 1" = 30'



PIV AND FDC TYPICAL DETAIL  
NO SCALE



| UNITS PLAN TYPE | REDUCE PRESSURE ASSEMBLY SIZE | METER SIZE FROM METER TO BLDG | FLOW RATE (GPM) |
|-----------------|-------------------------------|-------------------------------|-----------------|
| UPSTAIRS        | 1" REDUCE PRESSURE            | 1-1/2" METER                  | 13              |
| DOWNSTAIRS      | 1" REDUCE PRESSURE            | 3/4" METER                    | 8               |

NOTE: SIZING TABLE INFORMATION LAYOUT PROVIDED BY FARD ENGINEERS. REFER TO FARD ENGINEERS SHEETS FOR ADDITIONAL INFORMATION DATED 10-18-12 WITH TABLES DATED 2-15-2013.

REDUCED PRESSURE LAYOUT DETAIL @ SW  
NO SCALE

CONNECT TO OFFSITE  
WATER SYSTEM BY OTHERS

CONNECT TO EX W

CONNECT TO EX 12" W  
INSTALL TEE

CONNECT TO PROPOSED 12" W

CONNECT TO PROPOSED 12" W

EX FIELD INLET

TEMPORARY FIELD INLET

TEMPORARY FIELD INLET

NOTE:

REFER TO DETAIL W-18 AND  
FOR MORE STANDARDS FOR  
ADDITIONAL INFORMATION.

JOINTS MAY BE PACKED JOINTS, OR  
TAPERED FITTINGS OR JOINTS  
JOINTS SHALL BE WRAPPED WITH  
8-MIL POLYETHYLENE SHEETING.

EX METER BOIL TOP FOR DOWNSTAIR UNITS (PLAN TYPE 1.2.3.4) USE 1\"/>

EX CURB AND GUTTER

REDUCED PRESSURE LAYOUT DETAIL @ SW

NO SCALE

PIV AND FDC TYPICAL DETAIL

NO SCALE