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RECOMMENDED FOR APPROVAL:  
John Wallall 3/21/12  
LOS OSOS WASTEWATER PROJECT MANAGER DATE

APPROVED:  
Dave Flynn 3/21/12  
DEPUTY DIRECTOR OF PUBLIC WORKS DATE

# County of San Luis Obispo Los Osos, California

Drawings for the Construction of

# Los Osos Wastewater Collection System Project Areas A & D

VOLUME III - AREA D

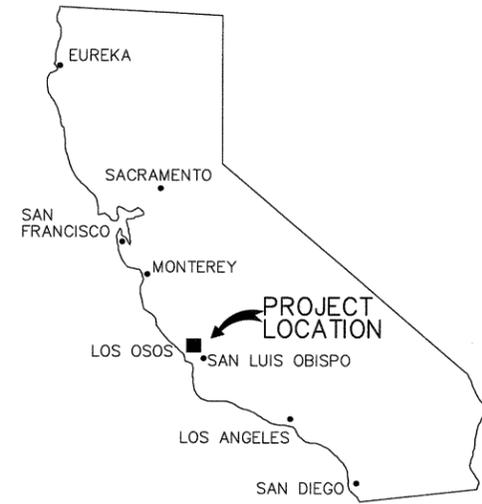
MARCH 2012



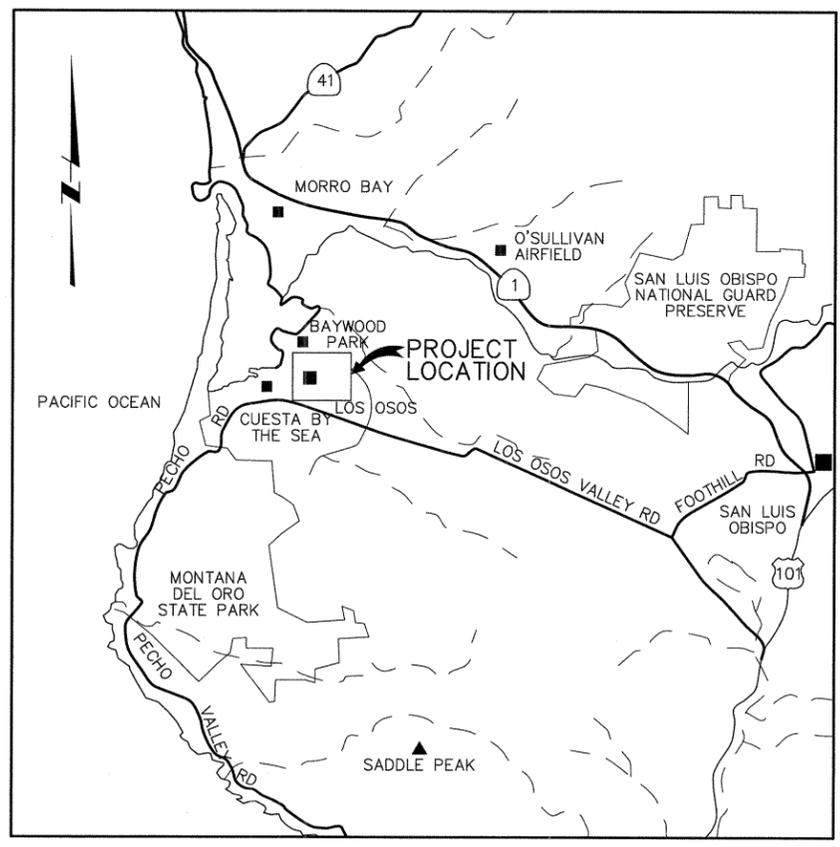
**CDM  
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200 Gateway Oaks Drive, Suite 240  
Sacramento, CA 95833  
Tel: (916) 967-8800

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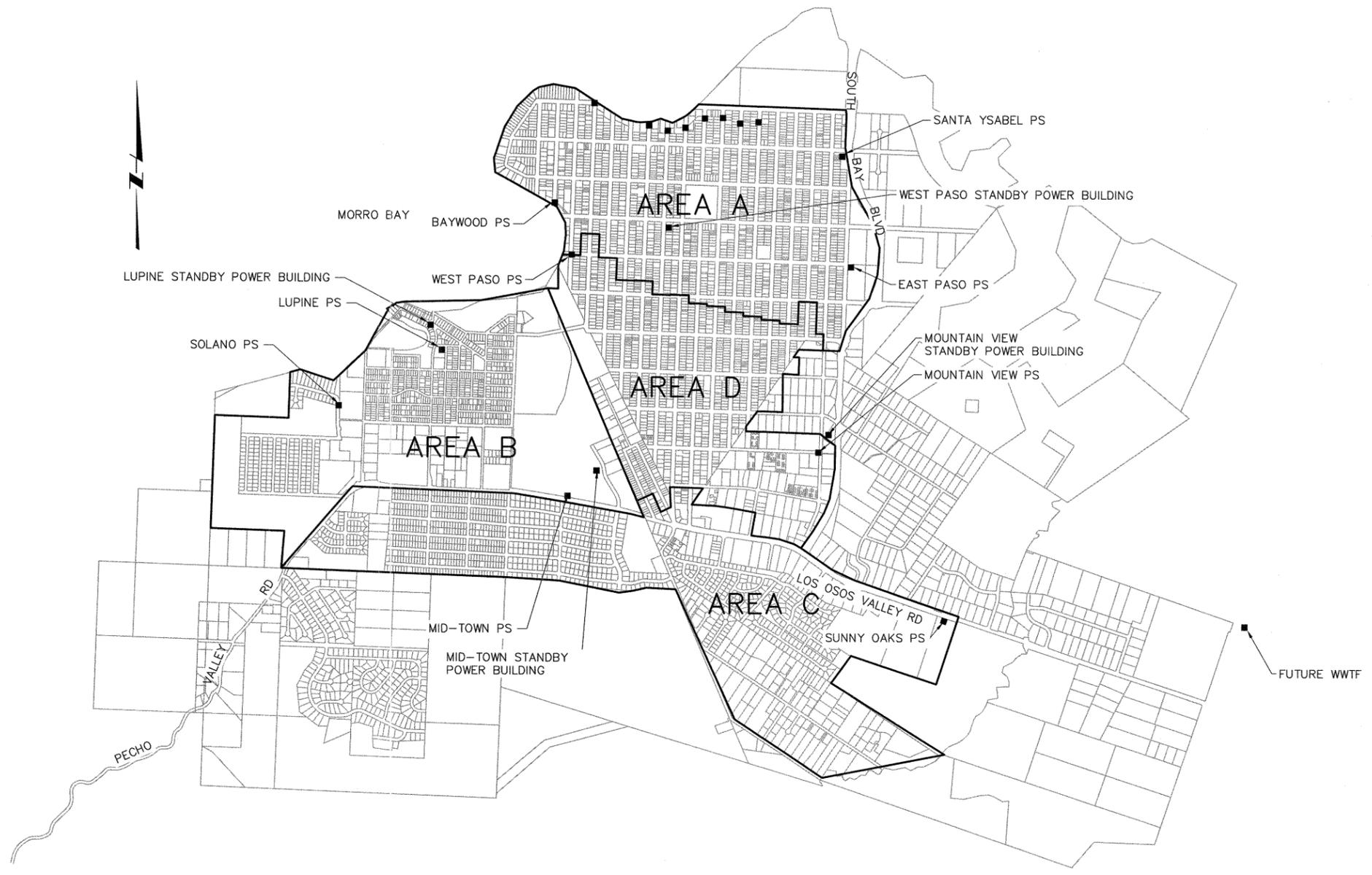
A B C D E F G H I J K L



**LOCATION MAP**



**VICINITY MAP**



**SITE PLAN**

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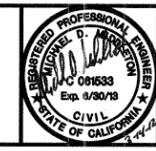
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: BJC  
 DRAWN BY: WKT  
 CHECKED BY: MDM  
 DATE: MARCH, 2012

**CDM Smith**  
 2295 Gateway Oaks Drive, Suite 240  
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 Tel: (916) 987-9900



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LOS OSOS WASTEWATER COLLECTION SYSTEM  
**LOCATION MAP, VICINITY MAP, AND SITE PLAN**

PROJECT NO. 42502-83120  
 FILE NAME: D-G-002  
 SHEET NO.  
**D-G-002**

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## LIST OF DRAWINGS

### GENERAL

- D-G-001 COVER SHEET
- D-G-002 LOCATION MAP, VICINITY MAP, AND SITE PLAN
- D-G-003 AREA D LIST OF DRAWINGS
- D-G-004 GENERAL SURVEY DATA, POTHOLE DATA, AGENCY CONTACT INFORMATION
- D-G-005 (NOT USED)
- D-G-006 GENERAL AREA D KEY PLAN
- D-G-007 AREA D FUTURE STORM DRAIN KEY PLAN
- D-G-008 (NOT USED)
- D-G-009 (NOT USED)
- D-G-010 GENERAL NOTES
- D-G-011 GENERAL SYMBOLS
- D-G-012 GENERAL ABBREVIATIONS

### TRAFFIC CONTROL

- D-TC-001 AREA D TRAFFIC CONTROL PLAN - GENERAL NOTES, LEGEND AND ABBREVIATIONS
- D-TC-002 AREA D TRAFFIC CONTROL PLAN - DETAIL SHEETS: PAVEMENT MARKERS AND TRAFFIC LINES
- D-TC-003 AREA D TRAFFIC CONTROL PLAN - DETAIL SHEETS: PAVEMENT MARKINGS, ARROWS AND WORDS
- D-TC-004 AREA D TRAFFIC CONTROL PLAN - DETAIL SHEETS: DELINEATORS, CHANNELIZERS AND BARRICADES
- D-TC-005 AREA D TRAFFIC CONTROL PLAN - DETAIL SHEETS: CRASH CUSHIONS
- D-TC-006 AREA D TRAFFIC CONTROL PLAN - DETAIL SHEETS: TEMPORARY RAILING (TYPE K)
- D-TC-007 AREA D TRAFFIC CONTROL PLAN - DETAIL SHEETS: CALTRANS TRAFFIC CONTROL PLANS
- D-TC-008 AREA D TRAFFIC CONTROL PLAN - TYPICAL MINOR STREET MID-BLOCK CONSTRUCTION
- D-TC-009 AREA D TRAFFIC CONTROL PLAN - TYPICAL MINOR STREET MID-BLOCK ROADWAY CENTER CLOSURE
- D-TC-010 AREA D TRAFFIC CONTROL PLAN - TYPICAL PUMP STATION SHOULDER AND ROADWAY EDGE WORK

### CIVIL

- GENERAL CIVIL**
- D-GC-060 GENERAL CIVIL STANDARD CIVIL DETAILS - 1
  - D-GC-061 GENERAL CIVIL STANDARD CIVIL DETAILS - 2
  - D-GC-062 GENERAL CIVIL STANDARD CIVIL DETAILS - 3
  - D-GC-063 GENERAL CIVIL STANDARD CIVIL DETAILS - 4
  - D-GC-064 GENERAL CIVIL STANDARD CIVIL DETAILS - 5
  - D-GC-065 GENERAL CIVIL STANDARD CIVIL DETAILS - 6
  - D-C-401 AREA D KEY PLAN
  - D-C-402 MOUNTAIN VIEW PS SITE PLAN
  - D-C-403 (NOT USED)
  - D-C-404 PPS 09B, 09C, 15B SITE PLANS

### MECHANICAL

- D-M-001 MECHANICAL STANDARD DETAILS - 1
- D-M-002 MECHANICAL STANDARD DETAILS - 2
- D-M-003 MECHANICAL POCKET PUMP STATIONS PLAN & SECTIONS
- D-M-004 SUBMERSIBLE PUMP STATIONS DUPLEX LAYOUT - PLAN & SECTION

### COLLECTION SYSTEM - SANITARY SEWER

- D-PP-100 PLAN AND PROFILE: PASO ROBLES AVE. STA. 4+22.64 TO 5+94.19
- D-PP-101 PLAN AND PROFILE: 3RD STREET STA. 7+79.38 TO 1+68.51
- D-PP-102 PLAN AND PROFILE: PISMO AVENUE STA. 1+04.16 TO 4+28.81
- D-PP-103 PLAN AND PROFILE: 4TH STREET STA. 7+91.19 TO 1+69.23
- D-PP-104 PLAN AND PROFILE: RAMONA AVENUE STA. 19+65.96 TO 23+32.55
- D-PP-105 PLAN AND PROFILE: 5TH STREET STA. 7+92.02 TO 0+76.82
- D-PP-106 PLAN AND PROFILE: SAN LUIS AVENUE STA. 1+95.62 TO 7+66.38
- D-PP-107 PLAN AND PROFILE: 7TH STREET STA. 14+33.19 TO 7+74.09
- D-PP-108 PLAN AND PROFILE: NIPOMO AVENUE STA. 4+37.44 TO 14+26.19
- D-PP-109 PLAN AND PROFILE: NIPOMO AVENUE STA. 14+26.19 TO 17+56.25
- D-PP-110 PLAN AND PROFILE: 11TH STREET STA. 14+70.65 TO 4+52.67
- D-PP-111 PLAN AND PROFILE: 11TH STREET STA. 4+00.00 TO 1+10.35
- D-PP-112 PLAN AND PROFILE: LOS OLIVOS AVE. STA. 7+66.68 TO 14+40.09
- D-PP-113 PLAN AND PROFILE: LOS OLIVOS AVE. STA. 14+40.09 TO 23+31.77
- D-PP-114 PLAN AND PROFILE: PISMO AVENUE STA. 4+28.81 TO 14+07.85
- D-PP-115 PLAN AND PROFILE: PISMO AVENUE STA. 14+07.85 TO 18+27.64
- D-PP-116 PLAN AND PROFILE: 8TH STREET STA. 35+03.66 TO 28+13.54
- D-PP-117 PLAN AND PROFILE: RAMONA AVENUE STA. 33+21.42 TO 43+26.69
- D-PP-118 PLAN AND PROFILE: RAMONA AVENUE STA. 43+26.69 TO 53+10.92
- D-PP-119 PLAN AND PROFILE: RAMONA AVENUE STA. 53+10.92 TO 62+48.44
- D-PP-120 PLAN AND PROFILE: 16TH STREET STA. 7+71.72 TO 14+10.66
- D-PP-121 PLAN AND PROFILE: 6TH STREET STA. 7+53.34 TO 14+18.76
- D-PP-122 PLAN AND PROFILE: 6TH STREET STA. 7+53.34 TO 3+25.98
- D-PP-123 PLAN AND PROFILE: NIPOMO AVENUE STA. 4+37.44 TO 2+49.33
- D-PP-124 PLAN AND PROFILE: 7TH STREET STA. 7+74.09 TO 3+99.15
- D-PP-125 PLAN AND PROFILE: 8TH STREET STA. 14+54.43 TO 20+98.76
- D-PP-126 PLAN AND PROFILE: 8TH STREET STA. 14+54.43 TO 7+74.48
- D-PP-127 PLAN AND PROFILE: SANTA YNEZ AVE. STA. 4+15.72 TO 7+61.81
- D-PP-128 PLAN AND PROFILE: 9TH STREET STA. 13+81.82 TO 6+95.96
- D-PP-129 PLAN AND PROFILE: 9TH STREET STA. 20+97.87 TO 27+92.50
- D-PP-130 PLAN AND PROFILE: SAN LUIS AVENUE STA. 14+27.58 TO 17+54.90
- D-PP-131 PLAN AND PROFILE: 10TH STREET STA. 29+00.78 TO 24+70.87
- D-PP-132 PLAN AND PROFILE: 9TH STREET STA. 20+97.86 TO 14+64.04
- D-PP-133 PLAN AND PROFILE: 10TH STREET STA. 22+05.83 TO 24+31.89
- D-PP-134 PLAN AND PROFILE: 10TH STREET STA. 22+05.83 TO 14+00.00
- D-PP-135 PLAN AND PROFILE: 10TH STREET STA. 14+00.00 TO 9+25.94
- D-PP-136 PLAN AND PROFILE: 11TH STREET STA. 14+70.65 TO 20+19.03
- D-PP-137 PLAN AND PROFILE: NIPOMO AVE. STA. 17+56.25 TO 27+67.25
- D-PP-138 ( NOT USED)
- D-PP-139 PLAN AND PROFILE: FAIRCHILD WAY STA. 9+84.46 TO 5+68.81
- D-PP-140 PLAN AND PROFILE: FERRELL AVE. STA. 3+63.17 TO 1+50.83
- D-PP-141 PLAN AND PROFILE: FERRELL AVE. STA. 32+30.64 TO 22+00.00
- D-PP-142 PLAN AND PROFILE: FERRELL AVE. STA. 22+00.00 TO 16+78.24
- D-PP-143 PLAN AND PROFILE: FERRELL AVE. STA. 16+78.24 TO 7+47.18
- D-PP-144 PLAN AND PROFILE: 4TH STREET STA. 7+91.22 TO 17+87.31
- D-PP-145 PLAN AND PROFILE: 5TH STREET STA. 14+69.75 TO 21+02.99
- D-PP-146 PLAN AND PROFILE: 5TH STREET STA. 14+69.75 TO 8+22.25
- D-PP-147 PLAN AND PROFILE: 6TH STREET STA. 21+46.51 TO 26+20.86
- D-PP-148 PLAN AND PROFILE: 6TH STREET STA. 21+46.51 TO 14+99.04
- D-PP-149 PLAN AND PROFILE: 7TH STREET STA. 28+26.74 TO 30+08.71
- D-PP-150 PLAN AND PROFILE: 7TH STREET STA. 28+26.74 TO 18+00.00
- D-PP-151 PLAN AND PROFILE: 7TH STREET STA. 18+00.00 TO 15+15.13
- D-PP-152 PLAN AND PROFILE: 8TH STREET STA. 28+13.54 TO 21+84.81
- D-PP-153 PLAN AND PROFILE: 9TH STREET STA. 34+56.95 TO 41+03.69
- D-PP-154 PLAN AND PROFILE: 9TH STREET STA. 34+56.95 TO 31+11.69
- D-PP-155 PLAN AND PROFILE: 10TH STREET STA. 35+65.07 TO 41+04.45
- D-PP-156 PLAN AND PROFILE: 10TH STREET STA. 35+65.07 TO 31+46.47
- D-PP-157 PLAN AND PROFILE: 11TH STREET STA. 28+11.68 TO 32+46.00
- D-PP-158 PLAN AND PROFILE: 11TH STREET STA. 28+11.68 TO 21+31.68
- D-PP-159 PLAN AND PROFILE: SAN LUIS AVE. STA. 20+86.15 TO 22+07.50
- D-PP-160 PLAN AND PROFILE: 12TH STREET STA. 21+32.47 TO 25+51.24
- D-PP-161 PLAN AND PROFILE: 12TH STREET STA. 21+32.47 TO 15+08.13
- D-PP-162 PLAN AND PROFILE: 13TH STREET STA. 21+17.96 TO 24+48.86
- D-PP-163 PLAN AND PROFILE: 13TH STREET STA. 21+18.10 TO 14+86.22
- D-PP-164 PLAN AND PROFILE: 14TH STREET STA. 14+52.62 TO 17+37.79
- D-PP-165 PLAN AND PROFILE: 14TH STREET STA. 14+52.62 TO 5+04.15
- D-PP-166 ( NOT USED)
- D-PP-167 PLAN AND PROFILE: 15TH STREET STA. 7+72.13 TO 9+93.87
- D-PP-168 PLAN AND PROFILE: 15TH STREET STA. 7+72.13 TO 3+15.92
- D-PP-169 PLAN AND PROFILE: SANTA YNEZ AVE. STA. 4+15.72 TO 2+77.28
- D-PP-170 PLAN AND PROFILE: 8TH STREET STA. 7+74.48 TO 5+03.94
- D-PP-171 PLAN AND PROFILE: 9TH STREET STA. 27+92.50 TO 30+75.61
- D-PP-172 PLAN AND PROFILE: 10TH STREET STA. 29+00.80 TO 31+30.81
- D-PP-172A PLAN AND PROFILE: SANTA YNEZ AVE. STA. 9+45.58 TO 10+94.16
- D-PP-173 PLAN AND PROFILE: 12TH STREET STA. 7+91.39 TO 13+94.04
- D-PP-174 PLAN AND PROFILE: 12TH STREET STA. 7+91.39 TO 1+20.07
- D-PP-175 PLAN AND PROFILE: SANTA YNEZ AVE. STA. 17+53.28 TO 24+03.04
- D-PP-176 PLAN AND PROFILE: FAIRCHILD WAY STA. 17+03.44 TO 13+04.90
- D-PP-177 PLAN AND PROFILE: 13TH STREET STA. 7+76.75 TO 14+38.27
- D-PP-177A PLAN AND PROFILE: SAN LUIS AVENUE STA. 27+45.25 TO 25+97.21
- D-PP-178 PLAN AND PROFILE: 13TH STREET STA. 7+76.75 TO 6+29.08
- D-PP-179 PLAN AND PROFILE: BUSH DRIVE STA. 16+07.63 TO 6+21.55
- D-PP-179A PLAN AND PROFILE: SAN LUIS AVENUE STA. 30+70.38 TO 33+12.25
- D-PP-180 PLAN AND PROFILE: MOUNTAIN VIEW AVE. STA. 17+17.06 TO 8+52.10
- D-PP-181 PLAN AND PROFILE: MOUNTAIN VIEW AVE. STA. 7+14.56 TO 2+21.84
- D-PP-182 PLAN AND PROFILE: SANTA YNEZ AVENUE STA. 34+01.29 TO 24+70.86
- D-PP-183 PLAN AND PROFILE: LOS OLIVOS AVENUE STA. 27+56.97 TO 24+41.06
- D-PP-184 MOUNTAIN VIEW CONDUIT PLAN

### COLLECTION SYSTEM - RECYCLED WATER

- D-PP-385 PLAN AND PROFILE: REW 10TH STREET STA. 510+00 TO 520+00
- D-PP-386 PLAN AND PROFILE: REW 10TH STREET STA. 520+00 TO 530+00
- D-PP-387 PLAN AND PROFILE: REW 10TH STREET STA. 530+00 TO 540+00

### COLLECTION SYSTEM - FORCE MAIN

- D-PP-420 PLAN AND PROFILE: FM 3RD STREET STA. 1+30.68 TO 9+00
- D-PP-421 PLAN AND PROFILE: FM 4TH STREET STA. 9+00 TO 19+00
- D-PP-422 PLAN AND PROFILE: FM RAMONA AVE. STA. 19+00 TO 29+00
- D-PP-423 PLAN AND PROFILE: FM RAMONA AVE. & 9TH STREET STA. 29+00 TO 39+00
- D-PP-424 PLAN AND PROFILE: FM 9TH STREET STA. 39+00 TO 49+00
- D-PP-425 PLAN AND PROFILE: FM 9TH STREET STA. 49+00 TO 59+00
- D-PP-426 PLAN AND PROFILE: FM 9TH STREET STA. 59+00 TO 61+00

### STRUCTURAL

- D-S-001 STRUCTURAL NOTES - 1
- D-S-002 STRUCTURAL NOTES - 2
- D-S-003 STANDARD STRUCTURAL DETAILS - 1
- D-S-004 STANDARD STRUCTURAL DETAILS - 2
- D-S-011 SUBMERSIBLE PUMP STATIONS & VALVE VAULTS - FOUNDATION AND TOP PLANS
- D-S-012 SUBMERSIBLE PUMP STATIONS & VALVE VAULTS - SECTION AND DETAILS
- D-S-013 POCKET PUMP STATION PLANS, SECTION AND DETAILS

### ELECTRICAL

- D-E-001 ELECTRICAL FIBER OPTIC & POWER CONDUIT PLAN AREA D
- D-E-002 ELECTRICAL DETAILS
- D-E-401 ELECTRICAL POCKET PUMP STATIONS 09B, 09C, & 15B ELECTRICAL SITE PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: \_\_\_\_\_ BJC  
 DRAWN BY: \_\_\_\_\_ WKT  
 CHECKED BY: \_\_\_\_\_ MDM  
 DATE: \_\_\_\_\_ MARCH, 2012

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LOS OSOS WASTEWATER COLLECTION SYSTEM  
**AREA D**  
**LIST OF DRAWINGS**

PROJECT NO. 42502-83120  
 FILE NAME: D-G-003  
 SHEET NO.  
**D-G-003**

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### SURVEY DATA

HORIZONTAL POSITIONS AND ELLIPSOID HEIGHTS ARE BASED ON NORTH AMERICAN DATUM OF 1983, 1991.35 EPOCH ADJUSTMENT OF THE HIGH PRECISION GEODETIC NETWORK AS REFERENCED BY #1315 IN THIS SURVEY, NGS DESIGNATION "A 1315" AND #14, NGS DESIGNATION "942110 TIDAL 14 RESET." THE NAD83 DATUM SUPERSEDED THE NAD27 DATUM

ORTHOMETRIC HEIGHTS (ELEVATIONS) ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAND88) PER #1315 AND #14 AS REFERENCED ABOVE. IN ADDITION AS FIRST ORDER CLASS 1 BENCHMARK NGS DESIGNATION "B 1314" (PT #1314) WAS USED FOR QUALITY CONTROL. THE ORTHOMETRIC HEIGHTS WITHIN THE PROJECT SITE WAS USED FOR QUALITY CONTROL. THE ORTHOMETRIC HEIGHTS WITHIN THE PROJECT SITE ARE APPROXIMATELY ONLY, DUE TO THE DISTANCE BETWEEN THE SITE AND THE BENCHMARKS. THE PURPOSE OF THE MODELING WITHIN THE SITE WAS TO DETERMINE A GOOD ORTHOMETRIC MODEL WITHIN THE SITE AREA ITSELF. NO ATTEMPT WAS MADE TO MAKE THIS MODEL TO EXACTLY MATCH NAVD88.

THE SURVEY DATA PROVIDED HEREIN WAS SUPPLIED BY THE COUNTY FOR USE DURING DESIGN AND CONSTRUCTION.

### AGENCY CONTACT INFORMATION

WATER

LOCSO  
MARGARET FALKNER  
2122 9TH ST. P.O. BOX 6064  
LOS OSOS, CA 93412  
(805) 528-9370

GOLDEN STATE WATER CO.  
MARK ZIMMER  
1140 LOS OLIVOS AVE.  
LOS OSOS, CA 93402  
(805) 528-2287

S&T MUTUAL WATER CO.  
DAVE TOLLEY  
P.O. BOX 6391  
LOS OSOS, CA 93412  
(805) 534-1139

STORM DRAINS

COUNTY OF SAN LUIS OBISPO  
DEPARTMENT OF PUBLIC WORKS  
COUNTY GOVERNMENT CENTER  
ROOM 207  
SAN LUIS OBISPO, CA 93408

GAS

SOUTHERN CALIFORNIA GAS CO.  
BRUCE SPENCER  
P.O. BOX 818  
GOLETA, CA 93116  
(805) 681-8083

ELECTRIC

PG&E  
TOM WAHWEOTTIN  
4325 S. HIGUERA  
SAN LUIS OBISPO, CA 93401  
(805) 546-5227

FIRE DEPARTMENT

CAL FIRE/SAN LUIS OBISPO COUNTY  
FIRE DEPARTMENT  
SOUTH BAY STATION #15  
CHIEF ROBERT LEWIN  
2315 BAYVIEW HEIGHTS DR.  
LOS OSOS, CA 93402  
(805) 528-1053

PHONES/FIBER OPTIC

TERRADEX  
PETER BIFFAR  
855 EL CAMINO REAL,  
SUITE 311  
PALO ALTO, CA 94301  
(877) 577-4111 (EXT 100)

LEVEL 3 COMMUNICATIONS  
MICHAEL SEILER  
775 CAPITOLIO WAY  
SAN LUIS OBISPO, CA 93401  
(805) 593-1816

AT&T LEGACY  
ROSEMARY HAMILL  
2741 N. MAIN STREET  
WALNUT CREEK, CA 94597  
(916) 799-4642

AT&T TRUNK & TOLL  
AMY PIGNATARO  
1860 WARDROBE AVENUE  
MERCED, CA 95341  
(209) 726-6920

AT&T LOCAL EXCHANGE  
RALPH SOARES  
196 SUBURBAN ROAD  
SAN LUIS OBISPO, CA 93401  
(805) 237-8131

QWEST/CENTURYLINK  
GEORGE MCELVAIN  
700 MINERAL AVENUE  
UTD 2734  
LITTLETON, CO 80120  
(720) 260-2514

SPRINT-NEXTEL  
TIBOR LAKY  
2592 DUPONT DRIVE  
IRVINE, CA 92612  
(800) 659-9698

VERIZON  
DEAN BOYERS  
2400 N. GLENVILLE DRIVE  
RICHARDSON, TX 75082  
(972) 729-6322

CHARTER COMMUNICATIONS  
270 BRIDGE STREET  
SAN LUIS OBISPO, CA 93401  
(805) 466-3040

UMAN / FIBER OPTIC

SAN LUIS COASTAL UNIFIED  
SCHOOL DISTRICT

### POTHOLE DATA

AREA	POTHOLE DRAWING ID	EXISTING GRADE	DEPTH TO TOP	EXISTING AC THICKNESS	LOCATION	DESCRIPTION	NORTHING	EASTING
D	10 D-PP-135	125.13	T=50" : B=66"	DIRT ROAD	10TH ST/LOS OLIVOS	12 - 4" FO COND	2,312,275.89	5,716,827.99
D	11 D-PP-113	122 +/-	T=107"	4"	LOS OLIVOS/FAIRCHILD	MULTIPLE FO COND	-	-
D	12 D-PP-183	122.66	-	5"	LOS OLIVOS/MOUNTAIN VIEW	FO - NOT FOUND	2,311,939.31	5,719,098.82
D	20 D-PP-134	-	-	8"	10TH ST/SANTA YNEZ	FO - NOT FOUND	-	-
D	20A D-PP-135	126.55	T=99" : B=116"	8"	10TH ST/LOS OLIVOS	MULTIPLE FO COND	2,312,266.75	5,716,816.45
D	32 D-PP-134	104.99	T=56" : B=72"	10"	10TH ST/SANTA YNEZ	9 - 4" FO COND	2,312,888.22	5,716,847.88

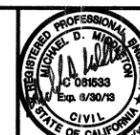
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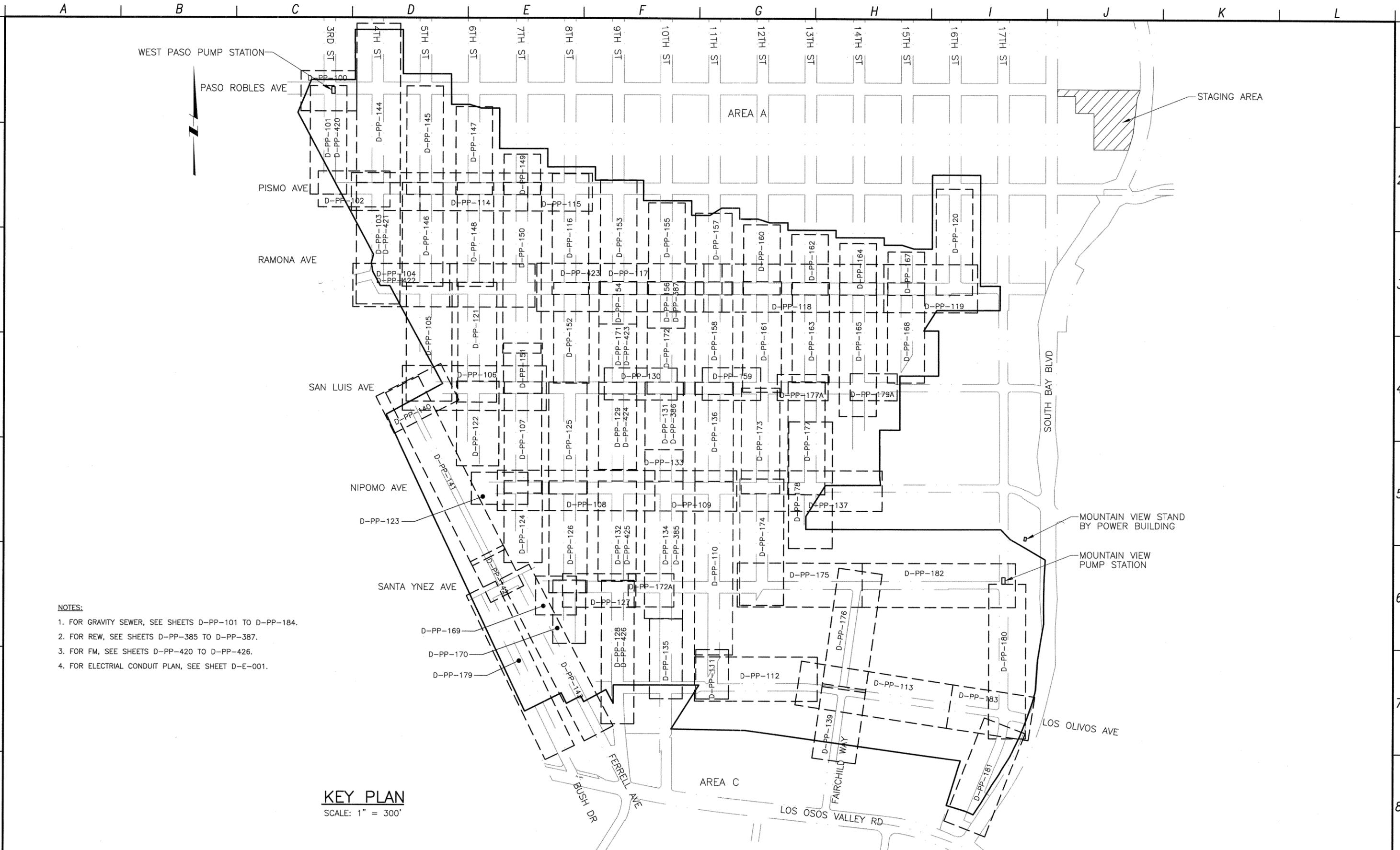
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LOS OSOS WASTEWATER COLLECTION SYSTEM  
**GENERAL SURVEY DATA, POT HOLE DATA, AGENCY CONTACT INFORMATION**

PROJECT NO. 42502-83120  
FILE NAME: D-G-004  
SHEET NO.  
**D-G-004**

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- NOTES:**
1. FOR GRAVITY SEWER, SEE SHEETS D-PP-101 TO D-PP-184.
  2. FOR REW, SEE SHEETS D-PP-385 TO D-PP-387.
  3. FOR FM, SEE SHEETS D-PP-420 TO D-PP-426.
  4. FOR ELECTRICAL CONDUIT PLAN, SEE SHEET D-E-001.

**KEY PLAN**  
SCALE: 1" = 300'

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: BJC  
 DRAWN BY: JAW  
 CHECKED BY: MDM  
 DATE: MARCH, 2012

**CDM Smith**  
 2295 Gateway Oaks Drive, Suite 240  
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 Tel: (916) 567-9900



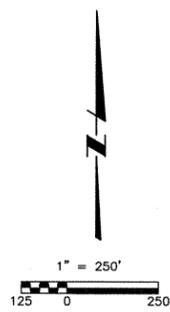
0 1/2 1  
 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY



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 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM  
**GENERAL AREA D KEY PLAN**  
 PROJECT No. 42502-83120  
 FILE NAME: D-G-006  
 SHEET NO.  
**D-G-006**

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 N:\CAD2008\los osos\01-sheets\0-D-GEN\0-D-G-007 03/08/12 11:39 tabotwkw XREES.dwg, CA-WDM



- INDICATES GENERAL AREA OF PLANNED DRAINAGE BASIN OR SWALE
- INDICATES GENERAL AREA OF PLANNED DRAINAGE INFILTRATOR OR STORM DRAIN
- ▲ INDICATES GENERAL AREA OF PLANNED DRAINAGE IMPROVEMENTS USING A COMBINATION OF INFILTRATOR, BASIN and/or SWALE

**NOTES TO CONTRACTOR:**  
 THE DRAINAGE IMPROVEMENTS DENOTED ON THIS SHEET WILL BE CONSTRUCTED BY OTHERS AND ARE NOT IN THIS CONTRACT. THE OWNER WILL COORDINATE WITH THE CONTRACTOR TO INSURE THAT CONSTRUCTION OF THE DRAINAGE IMPROVEMENTS DO NOT INTERFERE WITH THE CONTRACTOR'S WORK.

SEE SPECIFICATION APPENDIX A FOR STANDARD DETAILS OF INFILTRATOR, RETENTION SWALE AND DETENTION BASIN

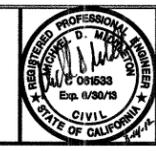
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: BJC  
 DRAWN BY: LLB  
 CHECKED BY: MDM  
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0 1/2 1  
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LOS OSOS WASTEWATER COLLECTION SYSTEM  
**AREA D**  
**FUTURE STORM DRAIN**  
**KEY PLAN**

PROJECT NO. 42502-83120  
 FILE NAME: D-G-007  
 SHEET NO.  
**D-G-007**

PRELIMINARY - NOT FOR CONSTRUCTION

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 S:\Los Osos\Wainut Creek\G\Area A & D\1-D-G-010 03/12/12 09:30 bullock\AREES\LosOsos-bdr- bullock\GENERAL NOTES, CA-MDM

### GENERAL NOTES

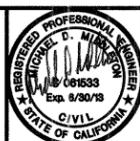
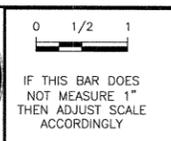
- |  |   |  |
|--|---|--|
| <ol style="list-style-type: none"> <li>1. THE CONTRACTOR SHALL HAVE COPIES OF THE APPROVED PLANS FOR THIS PROJECT ON THE SITE AT ALL TIMES AND SHALL BE FAMILIAR WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.</li> <li>2. STANDARD SPECIFICATIONS – ALL CONSTRUCTION WORK AND INSTALLATIONS SHALL CONFORM TO THESE CONSTRUCTION DOCUMENTS AND THE COUNTY OF SAN LUIS OBISPO STANDARD PLANS AND SPECIFICATIONS, CURRENT EDITION, AND ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE COUNTY.</li> <li>3. UTILITY NOTIFICATION – PRIOR TO BEGINNING ANY EARTHWORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL AGENCIES INVOLVED AND SHALL LOCATE ALL FACILITIES PRIOR TO EXCAVATION IN ANY AREA. THE CONTRACTOR SHALL CALL DIG ALERT (USA), TOLL FREE AT 1-800-642-2444 AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.</li> <li>4. EXISTING UTILITIES – THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES WHERE SHOWN ON THE PLANS ARE BASED ON AVAILABLE RECORDS, AND ARE APPROXIMATE ONLY. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR LOCATING OR HAVING LOCATED ALL UNDERGROUND UTILITIES AND OTHER FACILITIES AND FOR PROTECTING THE SAME DURING THE COURSE OF CONSTRUCTING THE PROJECT. ANY DEVIATIONS FROM THE PLAN LOCATION OF ANY EXISTING FACILITIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE COUNTY INSPECTOR.</li> <li>5. SITE CONDITIONS – THE CONTRACTOR SHALL CONTINUALLY REVIEW JOB SITE CONDITIONS. CONDITIONS REQUIRING CONSTRUCTION DIFFERENT FROM THAT SHOWN ON THE PLANS SHALL BE REPORTED TO THE COUNTY INSPECTOR PRIOR TO PROCEEDING WITH THE AFFECTED CONSTRUCTION.</li> <li>6. CONTRACTORS RECORD OF CHANGES – THE CONTRACTOR SHALL MAINTAIN A CURRENT, COMPLETE, AND ACCURATE RECORD OF ALL CHANGES WHICH DEVIATE FROM THE CONSTRUCTION AS SHOWN ON THESE PLANS AND SPECIFICATIONS FOR THE PURPOSE OF PROVIDING THE ENGINEER OF RECORD WITH A BASIS FOR THE PREPARATION OF RECORD DRAWINGS.</li> <li>7. RECORD DRAWINGS – THE CONTRACTOR SHALL MAINTAIN A SET OF MARKED UP AS-BID DRAWINGS SHOWING ACTUAL INSTALLED AND FIELD CONDITIONS.</li> <li>8. MANHOLE ENTRY SHALL BE IN COMPLIANCE WITH THE CONFINED SPACE ENTRY REQUIREMENTS OF CAL-OSHA, AND THE COUNTY OF SAN LUIS OBISPO.</li> <li>9. EXISTING UTILITIES IN THE PROJECT AREA INCLUDING ACP WATER MAINS MAY BE IN A FRAGILE CONDITION. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING NEAR EXISTING UTILITIES.</li> <li>10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE ALL TRAFFIC SIGNAL LOOPS, CABLES, AND CONDUITS IN THE VICINITY OF THE WORK. TRAFFIC SIGNALS SHALL BE MAINTAINED IN OPERATION DURING CONSTRUCTION AT ALL TIMES. CONTRACTOR SHALL PROTECT EXISTING TRAFFIC SIGNAL LOOPS AND FACILITIES. DAMAGED FACILITIES SHALL BE RESTORED IN ACCORDANCE WITH THE SPECIFICATIONS.</li> <li>11. PLAN ELEVATIONS OR DEPTHS FOR EXISTING UNDERGROUND UTILITIES ARE BASED ON RECORD DRAWINGS AND SURVEY INFORMATION AND ARE APPROXIMATE ONLY. WHERE NO ELEVATIONS ARE SHOWN, NO SUCH INFORMATION WAS AVAILABLE DURING DESIGN AND CONTRACTOR SHALL EXPOSE THESE UTILITIES FOR FIELD VERIFICATION PRIOR TO CONSTRUCTION.</li> <li>12. UTILITY SERVICES AND THEIR LOCATION ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO LOCATE AND PROTECT SERVICES DURING CONSTRUCTION. NO INTERRUPTION OF UTILITY SERVICES SHALL BE ALLOWED.</li> <li>13. DIMENSIONS FOR ALL OTHER EXISTING STRUCTURES, REFERENCING PIPING, PAVING, AND OTHER NON-STRUCTURAL ITEMS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS.</li> </ol> | <ol style="list-style-type: none"> <li>14. FOR ALL STANDARD MANHOLES THE COORDINATE LOCATIONS REPRESENT THE CENTERLINE OF THE MANHOLE BASE UNLESS INDICATED OTHERWISE ON THESE DRAWINGS. MANHOLES LOCATED AT THE INTERSECTIONS MAY BE ADJUSTED SUBJECT TO FIELD VERIFICATION BY THE CONTRACTOR. LOCATIONS OF MANHOLES THAT ARE NOT AT PIPELINE INTERSECTIONS MAY BE ADJUSTED SUBJECT TO APPROVAL BY THE ENGINEER.</li> <li>15. CONTRACTOR SHALL OBTAIN A PERMIT FROM THE COUNTY OR APPROPRIATE WATER COMPANY FOR THE USE OF CONSTRUCTION WATER. THE PERMIT SHALL BE APPROVED BY THE CALFIRE/COUNTY'S FIRE DEPARTMENT.</li> <li>16. DISCREPANCIES BETWEEN COORDINATES, BEARINGS AND LENGTHS, AND STATIONING SHALL BE RESOLVED IN THE FOLLOWING ORDER OF PRECEDENCE:             <ol style="list-style-type: none"> <li>1. COORDINATES</li> <li>2. BEARINGS AND LENGTHS</li> <li>3. STATIONING – STATIONING IS BASED ON CONSTRUCTION BASELINE.</li> </ol> </li> <li>17. IN ALL LOCATIONS WHERE TRENCH PLATE IS USED ON THIS PROJECT THE CONTRACTOR SHALL SUPPLY SKID RESISTANT COATING ON THE TRENCH PLATE AND COLD MIX A.C. AT THE EDGES. TRENCH PLATES SHALL BE NOTCHED INTO AC PAVING, WEDGED, AND SHIMMED TO PREVENT SLIPPAGE AND ROCKING UNDER TRAFFIC.</li> <li>18. MECHANICAL CONSTRUCTION EQUIPMENT USED ON THIS PROJECT SHALL BE SELECTED TO MINIMIZE DAMAGE TO THE EXISTING PAVEMENT ALONG THE PROJECT SITE. THE CONTRACTOR SHALL REPLACE DAMAGED AC PAVEMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AT NO ADDITIONAL COST TO THE COUNTY.</li> <li>19. SANITARY SEWER INSTALLATION MAY REQUIRE CURB, GUTTER AND SIDEWALK, AND CONCRETE V-DITCH/VALLEY GUTTER REMOVAL AND REPLACEMENT. THE CONTRACTOR SHALL INCLUDE ALL COSTS IN THE APPROPRIATE BID ITEM(S).</li> <li>20. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL SURPLUS EXCAVATION MATERIAL AND DEBRIS PROMPTLY FROM THE SITE AND SHALL MAINTAIN THE SITE IN A NEAT AND ORDERLY CONDITION. CONTRACTOR SHALL OBTAIN ALL NECESSARY FILL AND GRADING PERMITS.</li> <li>21. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, COUNTY, AND DISTRICT LAWS AND ORDINANCES RELATING TO THE SAFETY AND CHARACTER OF WORK, EQUIPMENT AND LABOR PERSONNEL. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO, THE SHORING OF TRENCHES, VENTILATORS OF CONFINED SPACES, CONFORMANCE TO TRAFFIC CONTROL REQUIREMENTS INCLUDING THE PROVISION AND MAINTENANCE OF BARRICADES AND THE PREPARATION AND IMPLEMENTATION OF TRAFFIC CONTROL PLANS AS REQUIRED.</li> <li>22. PIPE LENGTHS ARE THROUGH MANHOLE AS INDICATED. STATIONING IS ALONG THE CONSTRUCTION BASELINE.</li> <li>23. THE CONTRACTOR SHALL ABIDE BY ALL PROJECT PERMITS OBTAINED BY THE COUNTY. SEE SPECIFICATIONS SECTION 01060.</li> <li>24. THE CONTRACTOR SHALL OBTAIN CONSTRUCTION PERMITS FROM REGULATORY, UTILITY, AND ANY OTHER AGENCIES REQUIRING PERMITTING FOR THIS CONSTRUCTION WORK. THE CONTRACTOR SHALL PROVIDE A WRITTEN SIGNED RELEASE FROM EACH AGENCY UPON COMPLETION OF CONSTRUCTION.</li> <li>25. ALL DEWATERING WATER SHALL BE DISCHARGED IN ACCORDANCE WITH RWQCB, AND COUNTY OF SAN LUIS OBISPO PERMIT REQUIREMENTS INCLUDING DESILTING, AND ONLY TO APPROVED DISCHARGE LOCATIONS. DEWATERING WELLS SHALL BE ABANDONED ACCORDING TO RWQCB, AND COUNTY OF SAN LUIS OBISPO REQUIREMENTS.</li> <li>26. CONTRACTOR SHALL PROTECT AND MAINTAIN EXISTING STORM DRAIN FACILITIES AT ALL TIMES.</li> <li>27. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY PAVEMENT AT ALL TIMES.</li> <li>28. CONTRACTOR SHALL BACKFILL TRENCH TO GRADE AND/OR TRAFFIC PLATE AT THE END OF EACH DAY.</li> </ol> | <ol style="list-style-type: none"> <li>29. CONTRACTOR SHALL MAINTAIN EXISTING SANITARY SEWER SERVICE AT ALL TIMES. PROVIDE BYPASS PUMPING FACILITIES INCLUDING STANDBY PUMPS AND GENERATORS. EXISTING SEPTIC TANK SYSTEMS SHALL BE MAINTAINED UNTIL THE NEW SANITARY SEWER SYSTEM IS READY FOR LATERAL CONNECTIONS TO BE MADE.</li> <li>30. PROVIDE K-RAIL AND CHAINLINK FENCING AROUND ALL TUNNEL ACCESS PITS. K-RAIL AND FENCE SHALL CONFORM TO THE STANDARD PLANS AND SPECIFICATIONS. PROVIDE BARRICADES WITH FLASHING LIGHTS AT EACH PIT LOCATION.</li> <li>31. CONTRACTOR SHALL IDENTIFY EXISTING SURVEY MONUMENTS THAT WILL BE IMPACTED BY CONSTRUCTION. CONTRACTOR SHALL REESTABLISH MONUMENTS WITH RECORD OF SURVEY.</li> <li>32. AERIAL PHOTOS USED TO PREPARE SURFACE FEATURES SHOWN ON PLANS WERE TAKEN IN 1995 AND MAY NOT ACCURATELY DEPICT EXISTING CONDITIONS. CONTRACTOR SHALL FIELD VERIFY CONDITIONS PRIOR TO CONSTRUCTION AND INCLUDE COSTS IN HIS BID THEREFOR.</li> <li>33. ALL SEWERS SHALL STRICTLY CONFORM TO THE LINES AND GRADES SHOWN ON THE DRAWINGS.</li> <li>34. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE WORKING AROUND GAS, FIBER OPTIC AND ELECTRIC UTILITIES.</li> <li>35. CONTRACTOR SHALL MONITOR GROUND SURFACE AND UNDERGROUND UTILITIES FOR THE PRESENCE OF TUNNEL SLURRY OR EVIDENCE OF HYDROFRACTURE AT ALL TIMES DURING TUNNEL ACTIVITIES ALONG ENTIRE TUNNELED ALIGNMENT.</li> <li>36. LOW OVERHEAD ELECTRICAL AND TELEPHONE LINES ARE PRESENT IN THE PROJECT AREA. MAJORITY OF LINES ONLY PROVIDE 8 TO 10 FEET OF CLEARANCE FROM GROUND SURFACE. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE WORKING AROUND OVERHEAD UTILITIES.</li> <li>37. BORE AND RECEIVING PITS SIZING SHALL BE DETERMINED BY CONTRACTOR AND SHALL BE SOLID SHEETED WITH CONTINUOUSLY INTERLOCKED SHEET PILES.</li> <li>38. CONTRACTOR SHALL MAINTAIN TRAFFIC AND ACCESS PER THE TRAFFIC CONTROL REQUIREMENTS OF THE CONTRACT DOCUMENTS AND THE COUNTY OF SAN LUIS OBISPO.</li> <li>39. PROPERTY LINES SHOWN ARE APPROXIMATE.</li> <li>40. STREET RESTORATION SHALL INCLUDE REPLACEMENT OF CONCRETE VEE-DITCH/VALLEY GUTTER WHEN REMOVED FOR OR DAMAGED BY CONSTRUCTION.</li> <li>41. THESE DESIGN DRAWINGS AND RESPECTIVE SPECIFICATIONS HAVE BEEN DEVELOPED BASED ON THE BASIS OF DESIGN REPORT DATED OCTOBER 24, 2011, AND ACCEPTED/APPROVED BY THE SAN LUIS OBISPO COUNTY DEPARTMENT OF PUBLIC WORKS ON NOVEMBER 15, 2011.</li> <li>42. REFERENCE MADE TO SHEETS THAT BEGIN WITH PREFIXES PS-, B-, OR C- ARE NIC. REFERENCES ARE MADE FOR INFORMATION ONLY.</li> <li>43. ELECTRICAL CONDUIT AND MANHOLES ALONG PIPE LINE GENERAL NOTES:             <ol style="list-style-type: none"> <li>1. REFER TO SPECIFICATION 16800 – FIBER OPTIC AND POWER CONDUITS ALONG PIPELINES.</li> <li>2. REFER TO ELECTRICAL DRAWINGS FOR CONDUIT QUANTITY AND SIZES.</li> <li>3. REFER TO ELECTRICAL DRAWINGS FOR MANHOLE SIZES.</li> <li>4. REFER TO ELECTRICAL DRAWINGS FOR CONDUIT TERMINATION LOCATION AT POCKET PUMP STATIONS, SUBMERSIBLE PUMPS STATIONS, STANDBY POWER BUILDINGS, ELECTRICAL EQUIPMENT AREAS, AND OTHER PANELS.</li> </ol> </li> </ol> |
|--|---|--|

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: \_\_\_\_\_ BJC  
 DRAWN BY: \_\_\_\_\_ JAW  
 CHECKED BY: \_\_\_\_\_ MDM  
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<p style="font-weight: bold; font-size: 1.1em;">GENERAL NOTES</p>	<p style="font-size: 0.8em;">PROJECT No.42502-83120 FILE NAME: D-G-010 SHEET NO. <b>D-G-010</b></p>
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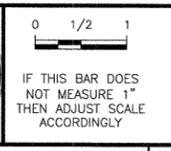
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A	B	C	D	E	F	G	H	I	J	K	L			
<p>STRUCTURE OR FACILITY</p> <p>EXISTING STRUCTURE OR FACILITY</p> <p>FUTURE STRUCTURE OR FACILITY</p>		<p>PIPE IN SECTION</p> <p>CL OR C CENTERLINE</p> <p>PL OR P PROPERTY LINE</p> <p>R/W RIGHT-OF-WAY LINE</p> <p>ESMT EASEMENT LINE</p> <p>TEMP ESMT TEMPORARY EASEMENT LINE</p>		<p>HORIZONTAL/VERTICAL CONTROL</p> <p>BENCH MARK</p> <p>COORDINATE TICK MARK</p> <p>STREET LIGHT W/POLE</p> <p>TRAFFIC SIGNAL W/POLE</p> <p>SOIL BORING</p> <p>B-8</p> <p>POTHOLE LOCATION</p>		<p><b>FOR GRAVITY PLAN AND PROFILE ONLY</b></p> <p>NEW SANITARY SEWER</p> <p>NEW SANITARY SEWER MANHOLE</p> <p>NEW FIBER OPTIC/ELECTRICAL CONDUIT</p> <p>EXISTING SANITARY SEWER MANHOLE</p> <p>EXISTING STORM DRAIN AND MH</p> <p>EXISTING BURIED TELEPHONE</p> <p>EXISTING GAS LINE W/VALVE</p> <p>EXISTING WATER LINE W/VALVE AND FIRE-HYDRANT</p> <p>PLUG &amp; ABANDON EXIST SANITARY SEWER, SEWER AND MANHOLE SHALL BE FILLED WITH GROUT</p> <p>STATE OF CALIFORNIA RIGHT OF WAY ACCESS CONTROLLED AREA</p> <p>EXIST FIBER OPTIC</p> <p>EXIST STORM DRAIN</p> <p>EXIST SANITARY SEWER</p> <p>EXIST BURIED ELECTRICAL</p> <p>EXIST TELEPHONE</p> <p>CENTER LINE</p> <p>EXIST GAS</p> <p>EXIST TRAFFIC SIGNAL</p> <p>FENCE (NEW)</p> <p>FENCE (EXISTING)</p> <p>WATER COURSE</p> <p>TRAIL OF DIRT ROAD</p> <p>MAJOR CONTOUR LINE (NEW)</p> <p>MAJOR CONTOUR LINE (EXISTING)</p> <p>VEGETATION</p> <p>POWER POLE</p> <p>GRINDER PUMP</p>		<p><b>FOR FORCE MAIN/RECYCLE WATER MAIN PLAN AND PROFILE ONLY</b></p> <p>CAV OR PRESSURIZED CO IN PLAN</p> <p>CAV IN PROFILE</p> <p>BOV IN PLAN</p> <p>BOV OR PRESSURIZED CO IN PROFILE</p>		<p><b>FOR PUMP STATION ONLY</b></p> <p>GATE VALVE</p> <p>BUTTERFLY VALVE</p> <p>CAPPED END OR PLUGGED END</p> <p>BLIND FLANGE</p> <p>REDUCER OR INCREASER</p> <p>PIPE CALLOUT</p> <p>EQUIPMENT NUMBER</p>		<p><b>SECTION AND DETAIL IDENTIFICATION</b></p> <p><u>SECTION IDENTIFICATION</u></p> <p>SECTION LETTER</p> <p>SECTION</p> <p>SHEET ON WHICH SECTION IS SHOWN</p> <p>SHEET ON WHICH SECTION IS CUT</p> <p><u>DETAIL IDENTIFICATION</u></p> <p>DETAIL NUMBER</p> <p>DETAIL</p> <p>SHEET ON WHICH DETAIL IS SHOWN</p> <p>SHEET ON WHICH DETAIL IS CALLED-OUT</p> <p><u>STANDARD DETAIL IDENTIFICATION</u></p> <p>DETAIL NUMBER</p> <p>DETAIL</p> <p>STANDARD DETAILS ARE LOCATED ON DISCIPLINE GENERAL SHEETS, IN NUMERICAL ORDER</p> <p><u>ELEVATION IDENTIFICATION</u></p> <p>ELEVATION NUMBER</p> <p>ELEVATION</p> <p>SHEET ON WHICH ELEVATION IS SHOWN</p> <p>SHEET ON WHICH ELEVATION IS CALLED-OUT</p> <p><u>PIPING IDENTIFICATION</u></p> <p>PIPE DIAMETER</p> <p>FLUID ABBREVIATION</p>		
<p>DISCIPLINE SPECIFIC SYMBOLS ARE SHOWN ON THE DISCIPLINE GENERAL DRAWINGS.</p> <p>FOR WELDING SYMBOLS USE AMERICAN WELDING SOCIETY STANDARD SYMBOLS.</p>														

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A	B	C	D	E	F	G	H	I	J	K	L																																	
A A/C AASHTO	AIR AIR CONDITIONING AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	COORD COR COTG CPLG CPVC CS CSP CSTS CT CTR CTS CTSK CU CULV CV CYL	COORDINATE CORNER CLEANOUT TO GRADE COUPLING CHLORINATED POLYVINYL CHLORIDE CAUSTIC SODA / CAST STEEL CORRUGATED STEEL PIPE CURRENT SPAN TEST STATION CERAMIC TILE CENTER CORROSION TEST STATION COUNTERSUNK COPPER / CUBIC CULVERT CHECK VALVE CUBIC YARD CYLINDER	FOS FOW FPC FPM FPS FPTS FR FRS FRT FTG FUR FUT FV FWD	FACE OF STUDS FACE OF WALL FLEXIBLE PIPE COUPLING LEFT / LIGHT FEET PER MINUTE FEET PER SECOND FOREIGN PIPE TEST STATION FRAME FIBERGLASS REINFORCED PLASTIC FINISHED SURFACE / FAR SIDE / FLOOR SINK / FORGED STEEL / FROTH SPRAY FEET / FOOT	LOL LONG LP LT LTS LW LWL LWR	LAYOUT LINE LONGITUDINAL LEFT / LOW PRESSURE / LAMP POST LEFT / LIGHT LOOSE TREATED SOIL LOW WATER LOW WATER LEVEL LOWER	PP PPD PPH PPM PR PRC PRCT PRFAB PRESS PROF PRV	POWER POLE / POLYPROPYLENE / PLAN AND PROFILE POUNDS PER DAY POUNDS PER HOUR POUNDS PER MINUTE PAINT POINT OF REVERSE CURVE PRECAST PREFABRICATED PRESSURE PROFILE PRESSURE REGULATING, RELIEF OR REDUCING VALVE POINT OF REVERSE VERTICAL CURVE PRESSURE SWITCH POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ABSOLUTE POUNDS PER SQUARE INCH GAUGE POINT OF TANGENCY / PAINT / PRESSURE TREATED POLYTETRAFLUOROETHYLENE (TEFLON) PLUG VALVE POLYVINYL CHLORIDE POLYVINYLIDENE FLUORIDE (KYNAR)	T T&B T&G TAN TB TBE TBM TC TCV TEL TEMP TF TH THK THR THR'D TK TL TOC TOE TOL TOM TOP TOPO TOS TOW TP TR TRANS TS TSB TSC TSD TWM TYP	THERMOSTAT / TREAD OF STAIR / TANGENT / TOP TOP AND BOTTOM TONGUE AND GROOVE TANGENT TACK BOARD THREAD BOTH ENDS TEMPORARY BENCH MARK TOP OF CURB TEMPERATURE CONTROL VALVE TELEPHONE TEMPERATURE / TEMPORARY TOP OF FOOTING TEST HOLE THICK / THICKNESS THRESHOLD THREADED TANK / TACK TRAVERSE LINE TOP OF CONCRETE THREAD ONE END TOILET TOP OF MASONRY TOP OF PIPE TOPOGRAPHIC TOP OF STEEL TOP OF WALL TELEPHONE POLE TRACT TRANSMITTER / TRANSITION / TRANSMISSION TRAFFIC SIGNAL TOP SET BASE TRAFFIC SIGNAL CONDUIT THERMOSTATIC VALVE / TELEVISION THERMOMETER WELL / TRAVELED WAY TYPICAL																																	
ADD ADH ADJ AER AFF AISC ALT ALUM AMB ANSI API APPD APPROX APPURTS ARCH AREA ARV ASME ASPH ASTM AT ATM AV/AR AWPA AWS AWWA	ADDITIONAL ADHESIVE ADJUSTABLE AERATION ABOVE FINISHED FLOOR AMERICAN INSTITUTE OF STEEL CONSTRUCTION ALTERNATE ALUMINUM AMBIENT AMERICAN NATIONAL STANDARDS INSTITUTE AMERICAN PETROLEUM INSTITUTE APPROVED APPROXIMATE APPURTENANCES ARCHITECTURE AMERICAN RAILWAY ENGINEERING ASSOCIATION AIR RELEASE VALVE AMERICAN SOCIETY OF MECHANICAL ENGINEERS ASPHALT AMERICAN SOCIETY FOR TESTING AND MATERIALS ACOUSTICAL TILE ATMOSPHERE AIR VACUUM AND AIR RELEASE VALVE AMERICAN WOOD PRESERVERS ASSOCIATION AMERICAN WELDING SOCIETY AMERICAN WATER WORKS ASSOCIATION	d DAD DAFT DB DC DEG DET DF DG DH DI DIA DIAG DIAPH DIFF DIP DIR DISCH DISP DL DMH DN DO DR DS DT DWG DWLS DWF	PENNY DOUBLE ACTING DOOR DISSOLVED AIR FLOTATION THICKENER DIRECT BURY DOUBLE DIRECT CURRENT DEGREE DUCTILE IRON DRINKING FOUNTAIN / DOUGLAS FIR DOUBLE HUNG DOUBLE HUNG DUCTILE IRON DIAMETER DIAGONAL DIAPHRAGM DIFFUSER / DIFFERENTIAL DUCTILE IRON PIPE DIRECTION DISCHARGE DIPSPENSER DEW LOAD DROP MANHOLE DOWN DISSOLVED OXYGEN / DITTO DOOR / DRAIN DRENCH SHOWER AND EYE WASH DRAIN TILE DRAWING DOWELS DRIVEWAY	G GA GAL GALV GANC GB GEN GFA GIP GL GLB GLV GM GMP GPH GPM GR GRD GRG GSP GV GYP	GAS GAUGE / GAUGE GALLON GALVANIZED GUY ANCHOR GRADE BREAK GENERAL / GENERATOR GROOVED FLANGE ADAPTER GALVANIZED IRON GALVANIZED IRON PIPE GLASS / GROUND LINE / GRADE LINE GLUE LAMINATED BEAM GLOBE VALVE GAS METER GUY POLE / GRINDER PUMP GALLONS PER DAY GALLONS PER HOUR GALLONS PER MINUTE GRADE GRADE / GROUND GRATING GALVANIZED STEEL PIPE GATE VALVE GYPSUM	H H&V H/B HC HDD HDR HDW HDWL HEX Hg HGL HGR HM HORZ HP HPG HR HTG HTR HVC HVAC HWD HWL HWO HYD	HIGH / HEIGHT HEATING AND VENTILATING HOSE BIBB HOUSE CONNECTION HORIZONTAL DIRECTIONAL DRILLING HEADER HARDWARE HEADWALL HEXAGONAL MERCURY HYDRAULIC GRADE LINE MANGER NOLLOW CLOSED HORIZONTAL HIGH POINT / HORSE POWER / HIGH PRESSURE HIGH PRESSURE GAS HEAT RETURN / HOUR HEATING HORIZONTAL AND VERTICAL CONTROL POINT HEATING, VENTILATION AND AIR CONDITIONING HOT WATER / HEADWORK HARDWOOD HIGH WATER LEVEL HANDWHEEL OPERATED HYDRAULIC / HYDRANT	I I&O ID IF IJTS IN INCL INFL INSL INSP INST INT INV IPV IRP IRRG	INSIDE AND OUTSIDE INSIDE DIAMETER INSIDE FACE INSULATING JOINT TEST STATION INCH INCLUDING / INCLUDING INFLUENT INSULATION INSPECTION INSTRUMENT INTERIOR INVERT IRON PIPE IRYONAL PIPE SIZE IRRIGATION	JAN JC JCT JS JSTS JT	JANITOR JUNCTION CHAMBER JUNCTION JUNCTION STRUCTURE JOISTS JOINT	K KG KM KV KW KWH	KELVIN / KILO / KARAT KILOGRAM KILOMETER KILOVOLT KILOWATT KILOWATT HOUR	L LAB LAM LAT LAV LB LCP LD LDG LEV LF LG LH LL LLH LLV LOC LOCS	LITER / LENGTH / ANGLE LABORATORY LAMINATED LATERAL LAVATORY POUND LOCAL CONTROL PANEL LOCAL DEPRESSION PLASTER / PLASTIC LEVEL LINEAR FOOT LENGTH / LONG LAMP HOLE / LEFT HAND LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL LOCATION LOS OSOS COMMUNITY SERVICES DISTRICT	M MACH MAG MAINT MAN MAS MATL MAX MB MCC MCR MEAS MECH MED MEMB MFRD MGD MH MHT MHW MI MICRON MIL MIN MIR MISC MK MLW mm MO MOD MON MOR MS MSL MTC MTD MTG MTL MTR MW	METER / MALE (PIPE THREAD) MACHINE MAGNETIC MAINTENANCE MANUAL MASONRY MATERIAL MAXIMUM MAIL BOX / MACHINE BOLT MOTOR CONTROL CENTER MIDDLE OF CURB RETURN MEASURE MECHANICAL MEDIUM MEMBER MANUFACTURED MILLION GALLONS PER DAY MANHOLE MEAN HIGH TIDE MEAN HIGH WATER MALLEABLE IRON / MILE 1/1,000,000 METER MILITARY / 1/1,000 TH INCH MINIMUM / MINUTE MIRROR MISCELLANEOUS MARK MEAN LOW WATER MILLIMETER MOTOR OPERATED / MASONRY OPENING MODEL MONUMENT MORTAR MOP SINK MEAN SEA LEVEL MECHANICAL-TYPE COUPLING MOUNTED MOUNTING METAL MOTOR MONITORING WELL	N NaOCL NaOH NBS NC NEC NEMA NF NFPA NG NIC NO NOM NPS NPT NRC NRS NS NTS	NORTH SODIUM HYPOCHLORITE SODIUM HYDROXIDE (CAUSTIC SODA) NATIONAL BUREAU OF STANDARDS NORMALLY CLOSED NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION NEAR FACE NATIONAL FIRE PROTECTION ASSOCIATION NATURAL GRADE / NATURAL GAS NOT IN CONTRACT NUMBER / NORMALLY OPEN NOMINAL NOMINAL PIPE SIZE NATIONAL PIPE THREAD NONREINFORCED CONCRETE PIPE NON-RISING STEM NEAR SIDE NOT TO SCALE	OBJ OC OD OE OF OFD OFF OH OPER OPNG OPP ORIG OS&Y OSA OSHA OWG OZ	OBJECT ON CENTER / OVER-CROSSING OUTSIDE DIAMETER / OVERALL DIMENSION OUTER EDGE OVERFLOW / OUTSIDE FACE OVERFLOW DRAIN OFFICE OVER HEAD OPERATOR / OPERATING OPENING OPPOSITE ORIGINAL OUTSIDE SCREW AND YOKE OUTSIDE AIR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OIL, WATER, GAS OUNCE	P P/S PA PART PAVMT PB PC PCC PCOTG PCVC PD PE PG PH PI PK PL PLAS PLT PLWD PM PNEU PNL POB POC POT	POLE / PAGE / PIPE POLE AND SHELF PLANTING AREA PARTITION PAVEMENT POLYETHYLENE / PULL BOX POINT OF CURVATURE / PRIMARY CLARIFIER / PORTLAND CEMENT PORTLAND CEMENT CONCRETE / POINT OF COMPOUND CURVE PRESSURE CLEANOUT TO GRADE POINT OF COMPOUND VERTICAL CURVE PUMP DUCT POLYETHYLENE / PLANT EFFLUENT / POLYELECTROLYTE POLYMER PRESSURE GAGE HYDROGEN ION CONCENTRATION POINT INFLUENT / POINT OF INTERSECTION PARKING PLATE / PROPERTY LINE / PLACE PLASTER / PLASTIC PLANT PLYWOOD PRESSED METAL PNEUMATIC PANEL POINT OF BEGINNING POINT OF CONNECTION POINT OF TANGENT	Q QTY QUAD	QUARRY TILE QUANTITY QUADRANGLE / QUADRANT	R R&O R/W RAC RAG RAP RAS RC RCP RD RED REF REG REINF REQD RESIL RET REV REW RFG RGE RH RM RO RPM RR RS RSL RT RTP RW RWL RWOCB	RADIUS / RISER / RATE OF SLOPE ROCK AND OIL RIGHT OF WAY RECYCLED ASPHALT CONCRETE RAILROAD AIR GRILLE RECLAIMED ASPHALT PAVEMENT RETURN ACTIVATED SLUDGE REINFORCED CONCRETE REINFORCED CONCRETE PIPE ROAD / ROOF DRAIN / ROUND REDUCER / REDUCING REFERENC / REFER / REFRIGERATOR REGULATING REINFORCE / REINFORCED REQUIRED RESILIENT RETAINING / RETURN REVISION RECYCLED EFFLUENT WATER ROOF / RAISED FOUNDATION / ROUGH FACE ROOFING REGISTERED GEOTECHNICAL ENGINEER REDHEAD / RIGHT HAND ROOM ROUGH OPENING REVOLUTIONS PER MINUTE RAILROAD RISING STEM RAW SLUDGE RIGHT REINFORCED THERMOSETTING PLASTIC REDWOOD RAINWATER LEADER REGIONAL WATER QUALITY CONTROL BOARD	S S/O SA SAN SBC SBR SC SCCD SCDP SCFM SCHD SIB SDFM SDR SEC SER SETT SH SHLV SHT SHTG SIM SL SLOC SLDG SLG SOG SOLN SP SPEC SPK SQ SS SSB SSPWC	SOUTH / SCUM / SINK / SECOND / SLOPE / SAND SOUTH OF SAMPLE SANITARY SOUTHWEST BELL CORPORATION STYRENE BUTADIENE (RUBBER) SPARE CHEMICAL / SECONDARY CLARIFIER STEEL CYLINDER CONCRETE PIPE SCREWED STANDARD CUBIC FEET PER MINUTE SCHEDULE STORM DRAIN STORM DRAIN FORCE MAIN STANDARD THERMOPLASTIC PIPE DIMENSION RATIO SECONDARY / SECTION SERIES SETTING SQUARE FOOT SHOWER SHELVING SHEET SHEATHING SIMILAR SLUDGE SAN LUIS OBISPO COUNTY SLIDING SLICE GATE SLAB ON GRADE SOLUTION STATIC PRESSURE / SURGE PROTECTION SPECIFICATION SPIKE STAINLESS STEEL / SANITARY SEWER / SERVICE SINK SELECT SUB-BASE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION SECONDS SAYBOLT UNIVERSAL STREET / STATE STATION SLEEVE-TYPE COUPLING STANDARD STAKE STEEL STEAM STRAIGHT / STRUCTURAL SUCTION SOLENOID VALVE SIDEWALK SIDEWALK DRAIN SWITCHGEAR SIDEWALL REGISTER SQUARE YARD SYMMETRICAL / SYMBOL SYSTEM	T T&B T&G TAN TB TBE TBM TC TCV TEL TEMP TF TH THK THR THR'D TK TL TOC TOE TOL TOM TOP TOPO TOS TOW TP TR TRANS TS TSB TSC TSD TWM TYP	UNION BONNET UNIFORM BUILDING CODE UNDER-CROSSING UNDERGROUND UNDERGROUND CONDUIT UNIT HEATER UNDERWRITERS LABORATORIES UNLESS NOTED OTHERWISE UNLESS OTHERWISE INDICATED URINAL UNDERGROUND SERVICE ALERT UNITED STATES GEOLOGICAL SURVEY	V VAC VAR VBR VC VCP VERT VOL VPI VTC VTR VWC VWM	VALVE / VERTICAL / VENT / VOLT / VOLUME VACUUM VARIES / VARIABLE VALVE BOX VERTICAL CURVE VITRIFIED CLAY PIPE VERTICAL VOLUME VERTICAL POINT OF INTERSECTION VENT TO CEILING VENT THROUGH ROOF VINYL WALL COVERING VERIFY WITH MANUFACTURE	W W/ W/O WC WCO WD WDW WH WM WOG WP WPJ WS WSTP WT WWF WWP WWTF	WEST / WASTE / WIDTH / WIDE FLANGE / WATER WITH WEST OF / WITHOUT WATER COLUMN / WATER CLOSET WALL CLEANOUT WOOD WINDOW WATER HEATER WROUGHT IRON WATER METER WATER, OIL, OR GAS WATER PROOFING / WORKING PRESSURE / WORK POINT WEAKEN PLANE JOINT WATER SURFACE WATER STOP WEIGHT WELED WIRE FABRIC WATER WORKING PRESSURE WASTEWATER TREATMENT FACILITY	X XS XSC XXS	CROSS CONNECTION EXTRA STRONG CROSS SECTION DOUBLE EXTRA STRONG	Y YR	YARD YEAR	Z ZN	ZERO / ZONE ZINC	# & @	POUND AND AT	OTHER ABBREVIATIONS CONFORM TO ANSI STANDARD ABBREVIATIONS Z32.2.3

DESIGNED BY: BJC  
 DRAWN BY: JAW  
 CHECKED BY: MDM  
 DATE: MARCH, 2012

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 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY



**DIALERT**  
 DIAL TOLL FREE 1-800-642-2444  
 AT LEAST TWO DAYS BEFORE YOU DIG  
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM  
**GENERAL ABBREVIATIONS**  
 PROJECT NO. 42502-83120  
 FILE NAME: D-G-012  
 SHEET NO.  
**D-G-012**

# TRAFFIC CONTROL PLANS FOR THE LOS OSOS WASTEWATER COLLECTION SYSTEM AREA D COUNTY OF SAN LUIS OBISPO, CALIFORNIA

## WORK TO BE DONE

THE TRAFFIC CONTROL PLANS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS, SPECIAL PROVISIONS, PROJECT SPECIFICATIONS, AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE COUNTY OF SAN LUIS OBISPO, CALIFORNIA.

### STANDARD SPECIFICATIONS

1. STANDARDS AND SPECIFICATIONS, COUNTY OF SAN LUIS OBISPO (2011).
2. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2010 CALIFORNIA EDITION.
3. CALIFORNIA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS (2010).

### STANDARD DRAWINGS

1. STANDARD CONSTRUCTION DRAWINGS, SAN LUIS OBISPO COUNTY DEPARTMENT OF PUBLIC WORKS (NOV. 2008).
2. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2010 CALIFORNIA EDITION.
3. CALIFORNIA DEPARTMENT OF TRANSPORTATION, STANDARD PLANS (2010).

## GENERAL NOTES:

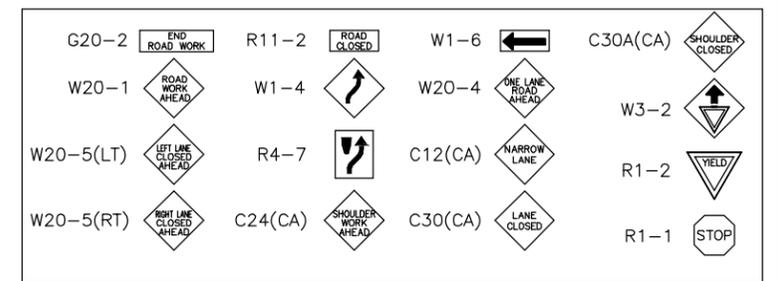
1. TRAFFIC CONTROL PLANS DO NOT SHOW ALL WORK REQUIRED TO BE COMPLETED. WORK NOT NECESSARY FOR TRAFFIC CONTROL MAY BE COMPLETED AT ANY TIME AND IS NOT SHOWN.
2. CONTRACTOR SHALL INSTALL AND MAINTAIN THE TRAFFIC CONTROL DEVICES AS SHOWN HEREIN, AS WELL AS ANY ADDITIONAL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED TO ENSURE THE SAFE MOVEMENT OF TRAFFIC AND PEDESTRIANS THROUGH OR AROUND THE CONSTRUCTION AREA AND TO PROVIDE MAXIMUM PROTECTION AND SAFETY TO CONSTRUCTION WORKERS.
3. THE ENGINEER RESERVES THE RIGHT TO OBSERVE TRAFFIC CONTROL PLANS IN USE AND TO MAKE NECESSARY CHANGES AS FIELD CONDITIONS WARRANT. ANY CHANGES SHALL SUPERCEDE THESE PLANS AND SHALL BE PROVIDED AT NO ADDITIONAL COST/TIME TO THE OWNER.
4. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED FOLLOWING COMPLETION OF EACH CONSTRUCTION PHASE.
5. CONTRACTOR SHALL REPLACE OR REPAIR ALL DAMAGED STRIPING WITH TEMPORARY STRIPING OR RAISED PAVEMENT MARKERS AT THE END OF EACH WORKING DAY.
6. CONTRACTOR SHALL TEMPORARILY COVER OR REMOVE ALL CONFLICTING SIGNS.
7. ALL SIGNS, STRIPING, PAVEMENT MARKINGS, CHANNELIZERS, BARRICADES, TEMPORARY RAILING, TEMPORARY CRASH CUSHIONS AND OTHER TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST CALTRANS STANDARD PLANS AND STANDARD SPECIFICATIONS.
8. ALL EXISTING SIGNING NOT IN CONFORMANCE WITH THE DETOUR PLANS SHALL BE COVERED FOR THE DURATION OF THE DETOUR. ALL EXISTING STOP SIGNS SHALL BE RELOCATED AS REQUIRED TO BE VISIBLE FROM ALL RELOCATED TRAFFIC LANES.
9. ALL EXISTING FACILITIES, INCLUDING SIGNING, STRIPING, SIGNS, MARKING, AND MARKERS NOT INDICATED TO BE REMOVED SHALL BE RESTORED TO THE ORIGINAL CONDITION AND/OR LOCATION AT THE END OF THE CONSTRUCTION PERIOD.
10. ALL TEMPORARY FACILITIES CONSTRUCTED FOR THE PURPOSES OF EACH DETOUR SHALL BE REMOVED AT THE COMPLETION OF THE CONSTRUCTION PERIOD.
11. CONSTRUCTION TRAFFIC CONTROL SHALL CONFORM TO THE LATEST MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2010 CALIFORNIA EDITION.
12. ALL STRIPING, MARKINGS, SIGNINGS, BARRICADES, AND MARKERS SHALL BE INSTALLED PER THE MUTCD, CALTRANS TRAFFIC MANUAL AND THE REQUIREMENTS OF THE COUNTY OF SAN LUIS OBISPO.
13. ALL ADVANCE WARNING SIGNS FOR DETOURS SHALL BE 48"x48" MINIMUM OR LARGER UNLESS OTHERWISE SPECIFIED.
14. ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED.
15. THE LOCATION OF ALL SIGNS SHOWN ARE ONLY APPROXIMATE AND THE EXACT LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
16. THE CONTRACTOR SHALL PROVIDE SAFE AND CONTINUOUS PASSAGE OF PEDESTRIANS, BICYCLE AND VEHICULAR TRAFFIC AT ALL TIMES.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION, CONTINUAL MAINTENANCE AND THE REMOVAL OF TRAFFIC CONTROL DEVICES SPECIFIED IN THE MUTCD.
18. CONTRACTOR SHALL NOTIFY THE COUNTY TRAFFIC SIGNAL AND STREET LIGHTING SUPERVISOR FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION OR CONSTRUCTION WITHIN 20 FEET OF EXISTING TRAFFIC SIGNAL DETECTOR LOOPS, CONDUITS, INTERCONNECTS, OR FIBER OPTIC CABLE.
19. ANY DAMAGE TO TRAFFIC SIGNAL DETECTOR LOOPS, CONDUITS, INTERCONNECTS, FIBER OPTIC CABLE OR COMMUNICATION CABLE SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT THEIR OWN EXPENSE. REPAIR SHALL BE A COMPLETE REINSTALLATION OF NEW CONDUCTORS FOR THE ENTIRE LENGTH FROM THE TERMINAL CABINET. IN-LINE SPACING IS NOT ALLOWED. DELAYS IN REPAIR OF INTERCONNECT OR FIBER OPTIC CABLE WILL REQUIRE THE PAYMENT OF LIQUIDATED DAMAGES TO THE COUNTY OF SAN LUIS OBISPO, DEPARTMENT OF ENVIRONMENTAL AND PUBLIC WORKS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE WET SANDBLASTING, TURBOBLASTING OR HYDROBLASTING OF CONFLICTING STRIPING AND PAVEMENT MARKINGS INCLUDING THE CLEANUP OF ALL RESULTING DEBRIS. COVERING OF EXISTING STRIPING WITH BLACK PAINT IS NOT PERMITTED.
21. ANY VEHICULAR OR PEDESTRIAN SIGNS THAT ARE OBSCURED, OR HAVE IMPAIRED OR REDUCED VISIBILITY, SHALL BE REPLACED IMMEDIATELY BY THE CONTRACTOR UPON IDENTIFICATION AND NOTIFICATION OF THE COUNTY TRAFFIC ENGINEER.
22. A 2-FOOT MINIMUM CLEARANCE MUST BE MAINTAINED BETWEEN SURFACE-MOUNTED CHANNELIZERS AND THE LANE AT ALL TIMES. A MINIMUM 10-FOOT WIDE LANE IS REQUIRED ADJACENT TO CURBS, AND WHERE THERE ARE VERTICAL OBSTRUCTIONS.
23. THE CONTRACTOR SHALL INSTALL A 4-INCH SOLID WHITE RIGHT EDGE LINE (DETAIL 27B) AND A 4-INCH SOLID YELLOW LEFT EDGE LINE (DETAIL 25) OR MEDIAN ISLANDS (DETAIL 29) LOCATED AT A MINIMUM OF TWO FEET FROM THE EDGE OF A FENCE, CANOPY, OR K-RAIL TO DELINEATE THE EDGE OF TRAVELED ROADWAY. EDGE LINES MUST ALLOW FOR A MINIMUM 10-FOOT LANE BETWEEN EDGE LINE AND LANE OR CENTER LINE.
24. CONTRACTOR SHALL PROVIDE FLAGGERS FOR SINGLE LANE TRAFFIC CONTROL AND IN OTHER CASES IF NECESSARY FOR THE SAFE PASSAGE OF TRAFFIC. THE FLAGGER SHALL USE ONLY THE APPROVED OCTAGONAL STOP/SLOW PADDLE, SHALL WEAR AN ORANGE SAFETY VEST (REFLECTORIZED FOR NIGHT WORK) AND HARD HAT, AS REQUIRED BY THE CALTRANS CONSTRUCTION MANUAL, AND MUST BE PROPERLY TRAINED BY THE CONTRACTOR IN PERFORMING THE WORK SAFELY. APPROPRIATE ADVANCE SIGNS MUST ALSO BE INSTALLED, PER THE MUTCD AND THE CALTRANS TRAFFIC MANUAL.
25. ALL TRAFFIC SIGNAL CONTROLLER, SIGNAL STANDARDS, AND OTHER ASSOCIATED SIGNAL EQUIPMENT AND PULL BOXES MUST BE ACCESSIBLE AT ALL TIMES TO THE COUNTY'S TRAFFIC SIGNAL REPAIR (TSR) PERSONNEL. ALL FENCES MUST BE INSTALLED SUCH AS TO PERMIT ACCESS BY TSR PERSONNEL AT ALL TIMES.
26. THERE SHALL BE NO STORAGE OF CONSTRUCTION MATERIALS OR EQUIPMENT OUTSIDE THE DESIGNATED WORK AREA AS INDICATED IN THE WORK SITE TRAFFIC PLANS. STORAGE OF CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THE DESIGNATED AREA SHALL BE DONE IN A MANNER NOT TO CREATE VISIBILITY OBSTRUCTIONS TO THE MOTORING PUBLIC AS DETERMINED BY THE ENGINEER.
27. WHEN WORK IS NOT IN PROGRESS, CONTRACTOR SHALL PROVIDE TEMPORARY STRIPING IN AREAS WHERE EXISTING STRIPING HAS BEEN REMOVED.
28. THE NAME AND PHONE NUMBER (24 HOUR AVAILABILITY) OF THE CONTRACTOR'S SAFETY COORDINATOR AND TRAFFIC CONTROL DEVICE MAINTENANCE MONITOR WILL BE PROVIDED TO THE AUTHORITY AND THE COUNTY'S TRAFFIC ENGINEER AND ANY CHANGE IN ASSIGNED PERSONNEL OR PHONE NUMBER WILL BE REPORTED IMMEDIATELY TO AUTHORITY AND THE COUNTY'S TRAFFIC ENGINEER.
29. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED FOLLOWING COMPLETION OF EACH CONSTRUCTION PHASE. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE RESTORATION OF THE STRIPING, PAVEMENT MARKINGS, AND TRAFFIC CONTROL DEVICES TO THE PERMANENT CONDITION USING CALTRANS APPROVED MATERIALS. THE COUNTY ENGINEER SHALL APPROVE THE CONTRACTORS STRIPING MARKOUT BEFORE THE FINAL INSTALLATION OF STRIPING BY THE CONTRACTOR. NOTIFY THE TRAFFIC ENGINEER TEN (10) WORKING DAYS PRIOR TO FINAL STRIPING INSTALLATION.
30. ALL DRIVEWAYS AND SIDE STREETS SHALL BE KEPT OPEN AT ALL TIMES EXCEPT WHEN CONSTRUCTION TAKES PLACE DIRECTLY IN FRONT OF DRIVEWAY OR SIDE STREET. ALL OPEN EXCAVATIONS ON PUBLIC STREETS SHALL BE BACK-FILLED OR STEEL-PLATED (TRAFFIC RATED, ANTI-SKID) FOR TRAFFIC OUTSIDE THE WORKING HOURS. TRAFFIC SHALL BE RESTORED TO NORMAL CONDITIONS OUTSIDE THE WORKING HOURS.
31. NOTIFY LOCAL FIRE DEPARTMENT, POLICE DEPARTMENT, AMBULANCE SERVICES AND TRASH SERVICES 48 HOURS IN ADVANCE OF CONSTRUCTION IN THE VARIOUS STAGE AREAS.
32. CONTRACTOR SHALL INSTALL C40A SIGNS (TRAFFIC FINES DOUBLED IN CONSTRUCTION AREA) ONE FOR EACH DIRECTION, AT THE BEGINNING OF EACH WORK ZONE.
33. FOR STREET DESIGNATIONS AND APPLICABLE SPECIFIC TRAFFIC CONTROL REQUIREMENTS, SEE SECTIONS 1.03 AND 1.04 OF THE PROJECT SPECIFICATIONS, SECTION 01571, TRAFFIC CONTROL.
34. ALSO SEE SPECIFICATIONS SECTION 01571 - TRAFFIC CONTROL FOR ADDITIONAL REQUIREMENTS.

## LEGEND:

-  CONSTRUCTION AREA
-  FIRST ORDER OF WORK
-  DIRT STOCKPILE
-  TEMPORARY RAILING (TYPE K) WITH TRAFFIC SCREEN
-  TEMPORARY CRASH CUSHION MODULES (ARRAY AS NOTED)
-  ONE POST SIGN LOCATION
-  SURFACE MOUNTED CHANNELIZER
-  FLAGPERSON
-  BARRICADE
-  TYPE P MARKER
-  CONSTRUCTION SIGN NUMBER
-  TEMPORARY PAVEMENT DELINEATION DETAIL
-  SIGNALIZED INTERSECTION
-  DIRECTION OF TRAVEL

## CONSTRUCTION AREA SIGNS:

(MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2010 CALIFORNIA EDITION)



SCALE: NO SCALE

XREF: Los Osos-Idr Traffic-RICK X-FEAT-AERL N-UTL-SS N-FEAT-ONBL N-FEAT-PROF N-FEAT-NDX X-FEAT-ADR X-FEAT-APN  
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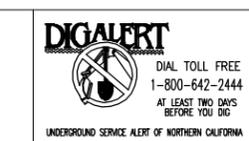
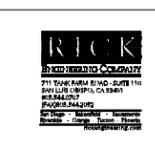
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RDH  
 DRAWN BY: RDH  
 CHECKED BY: DAD  
 DATE: MARCH 2012

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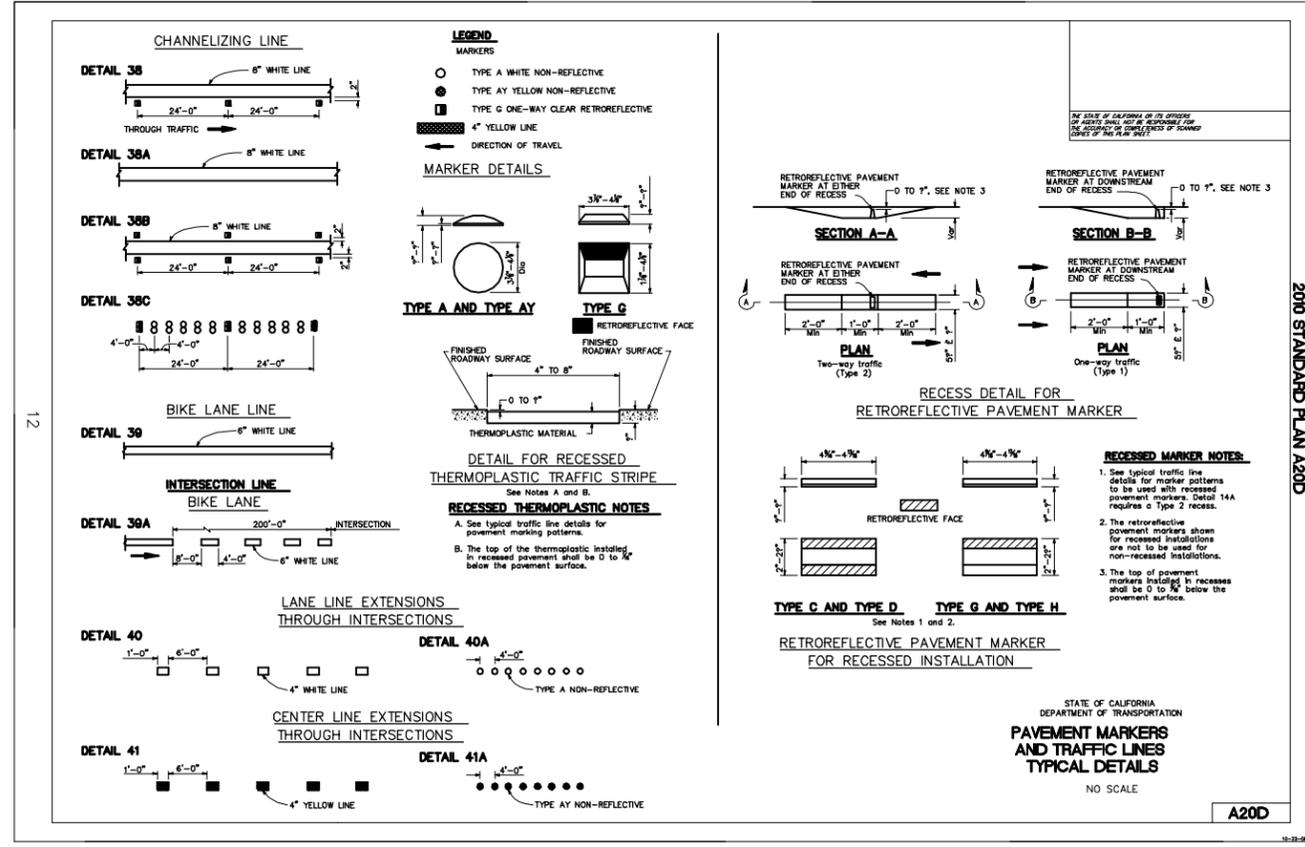
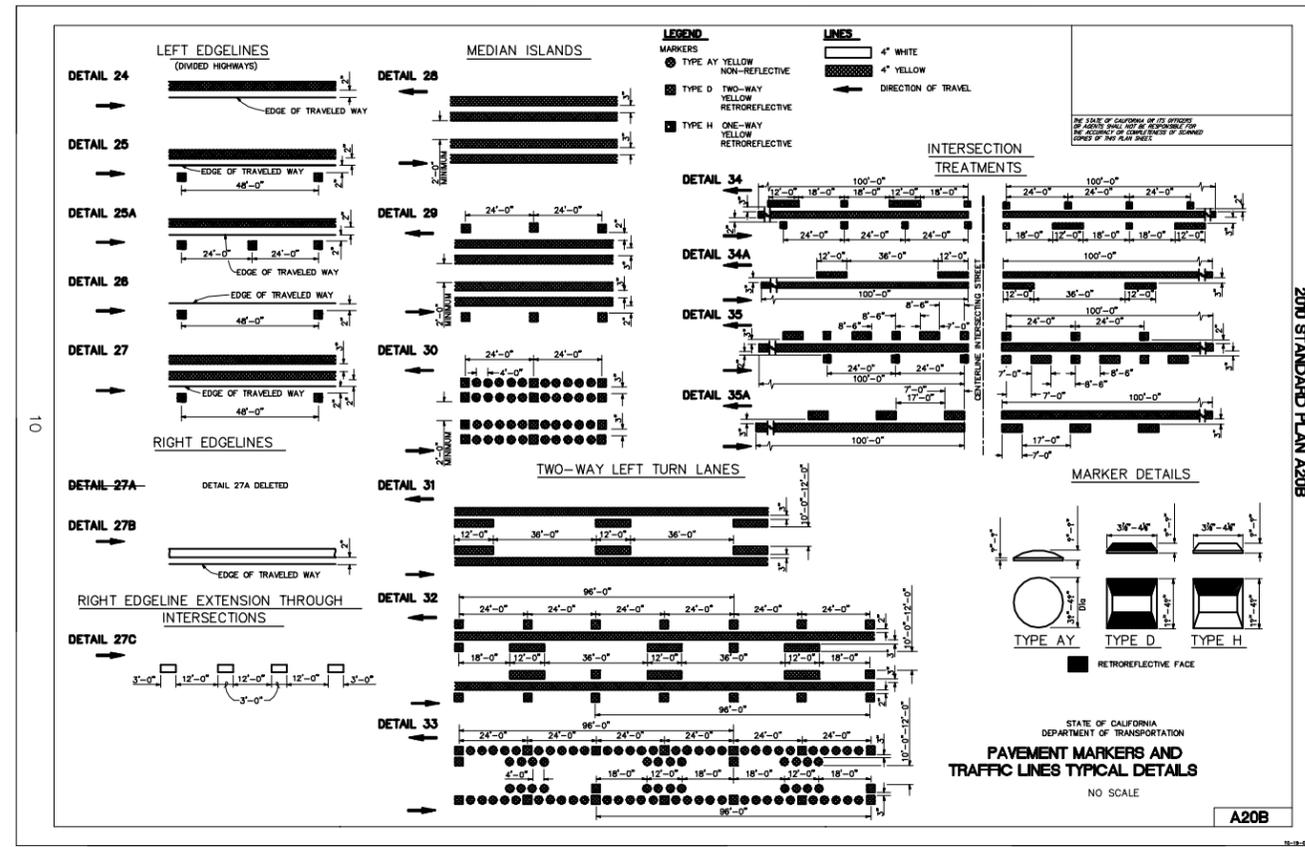
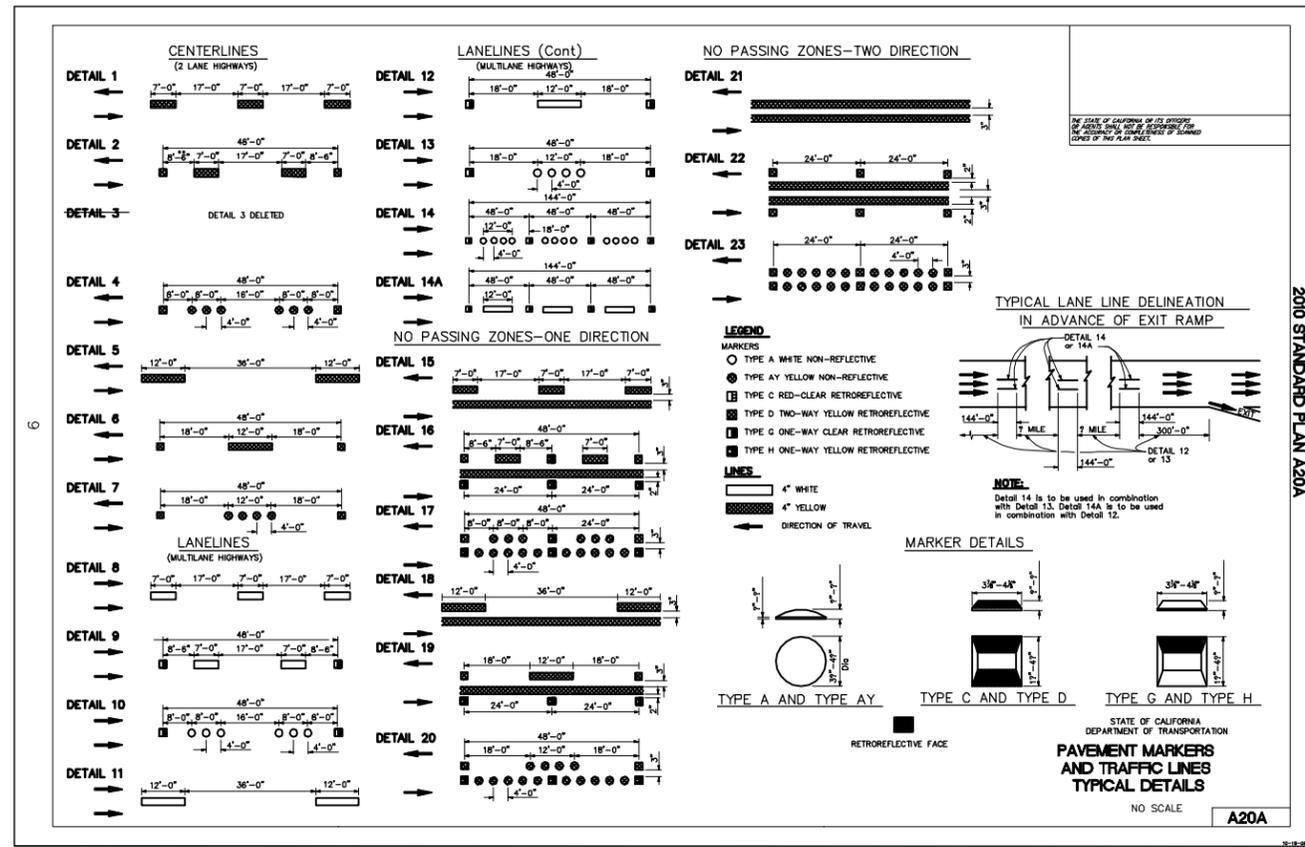
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LOS OSOS WASTEWATER COLLECTION SYSTEM  
 AREA D TRAFFIC CONTROL PLAN  
 GENERAL NOTES, LEGEND  
 AND ABBREVIATIONS

PROJECT NO. 42502-83120  
 FILE NAME:  
 SHEET NO.  
**D-TC-001**

XREF: Los Osos-bdr a20a a20b a20d  
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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RDH  
 DRAWN BY: RDH  
 CHECKED BY: DAD  
 DATE: MARCH 2012

**CDM Smith**  
 2295 Gateway Oaks Drive, Suite 240  
 Sacramento, CA 95833  
 Tel: (916) 567-9900



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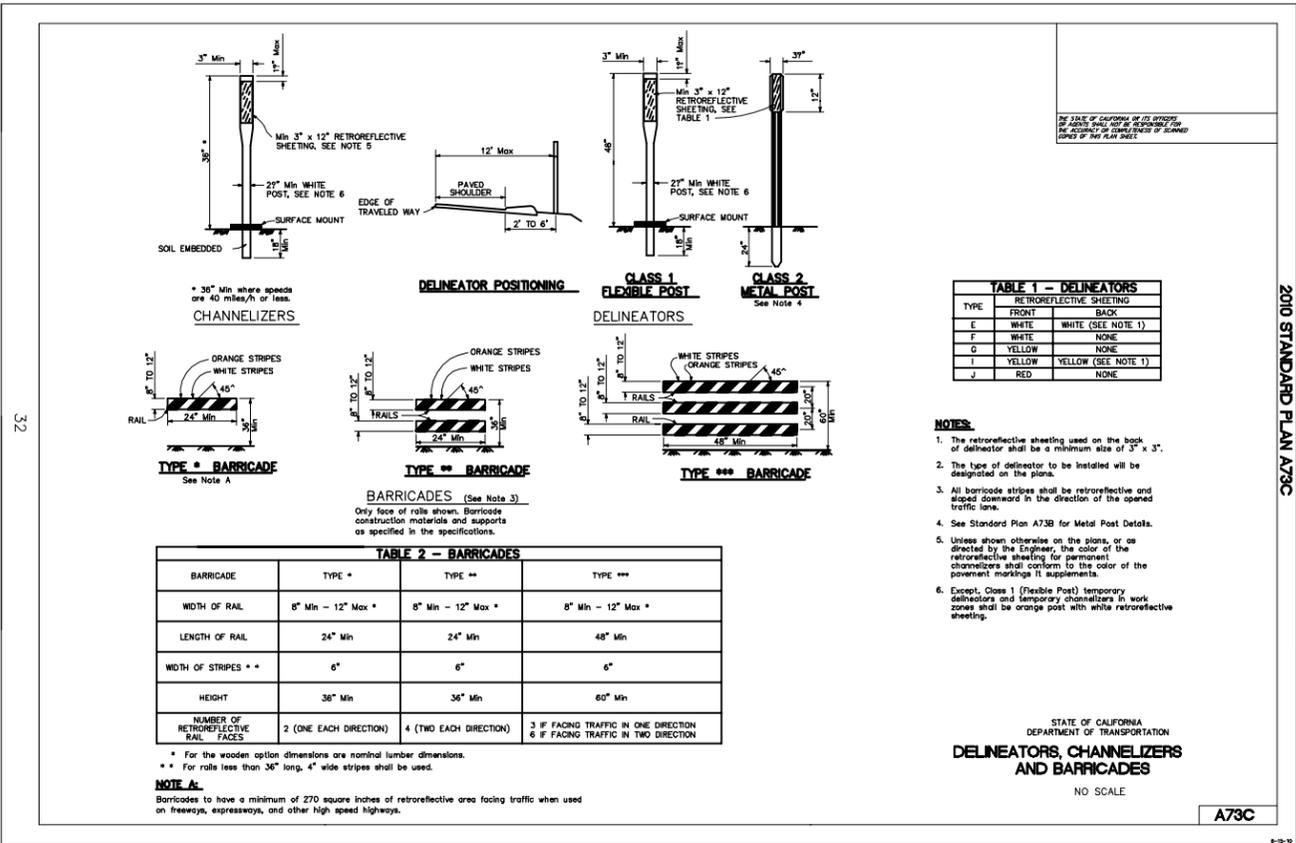
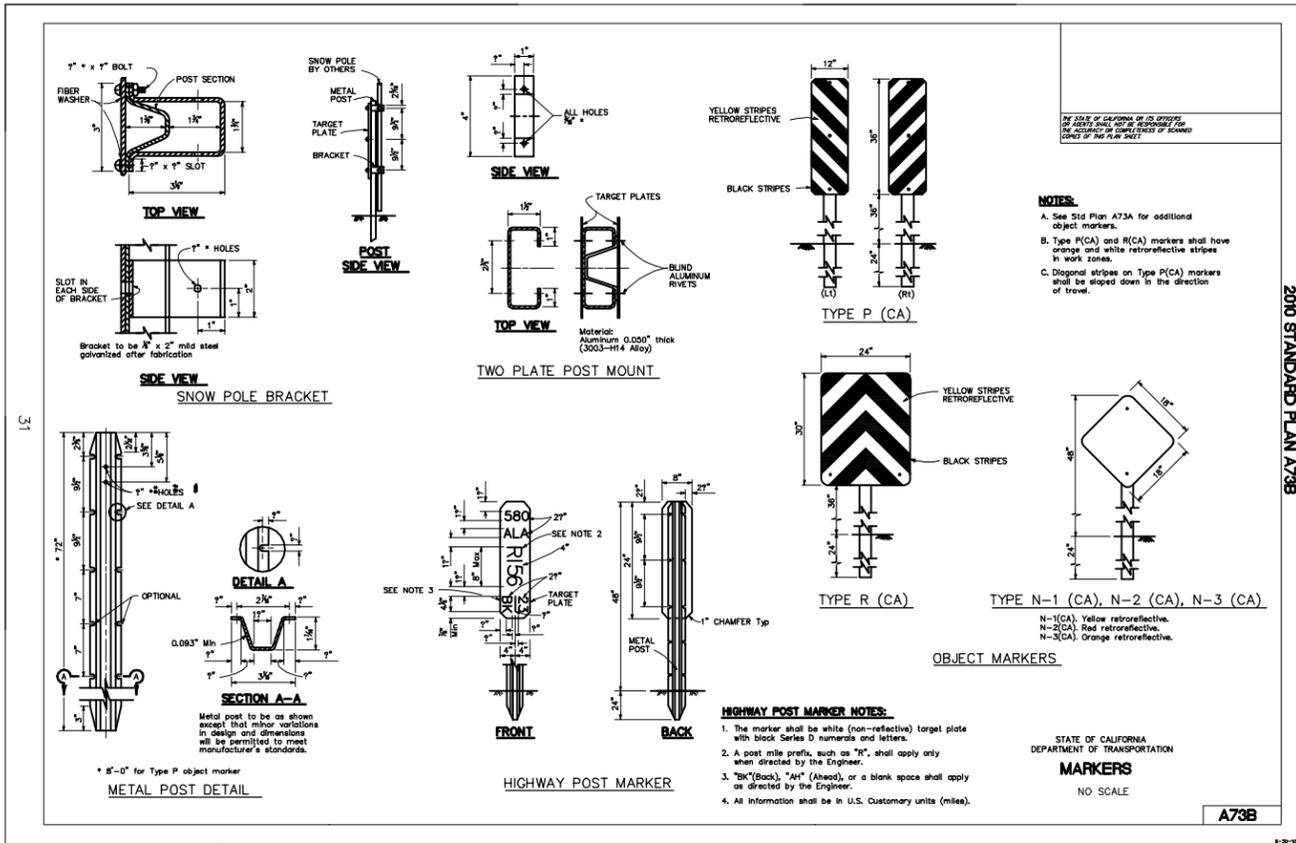
**RICK**  
 711 STATE ST. SUITE 110  
 SACRAMENTO, CA 95811  
 (916) 442-2222

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LOS OSOS WASTEWATER COLLECTION SYSTEM  
 AREA D TRAFFIC CONTROL PLAN  
 DETAIL SHEETS  
 PAVEMENT MARKERS AND TRAFFIC LINES

SCALE: NO SCALE  
 PROJECT NO. 42502-83120  
 FILE NAME:  
 SHEET NO.  
**D-TC-002**





REV. NO.	DATE	DRWN	CHKD	REMARKS

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 CHECKED BY: DAD  
 DATE: MARCH 2012

**CDM Smith**

2285 Gateway Oaks Drive, Suite 240  
 Sacramento, CA 95833  
 Tel: (916) 567-9900



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**RICK**

REGISTERED CIVIL ENGINEER  
 No. 44375  
 Exp. 3/31/12  
 CIVIL

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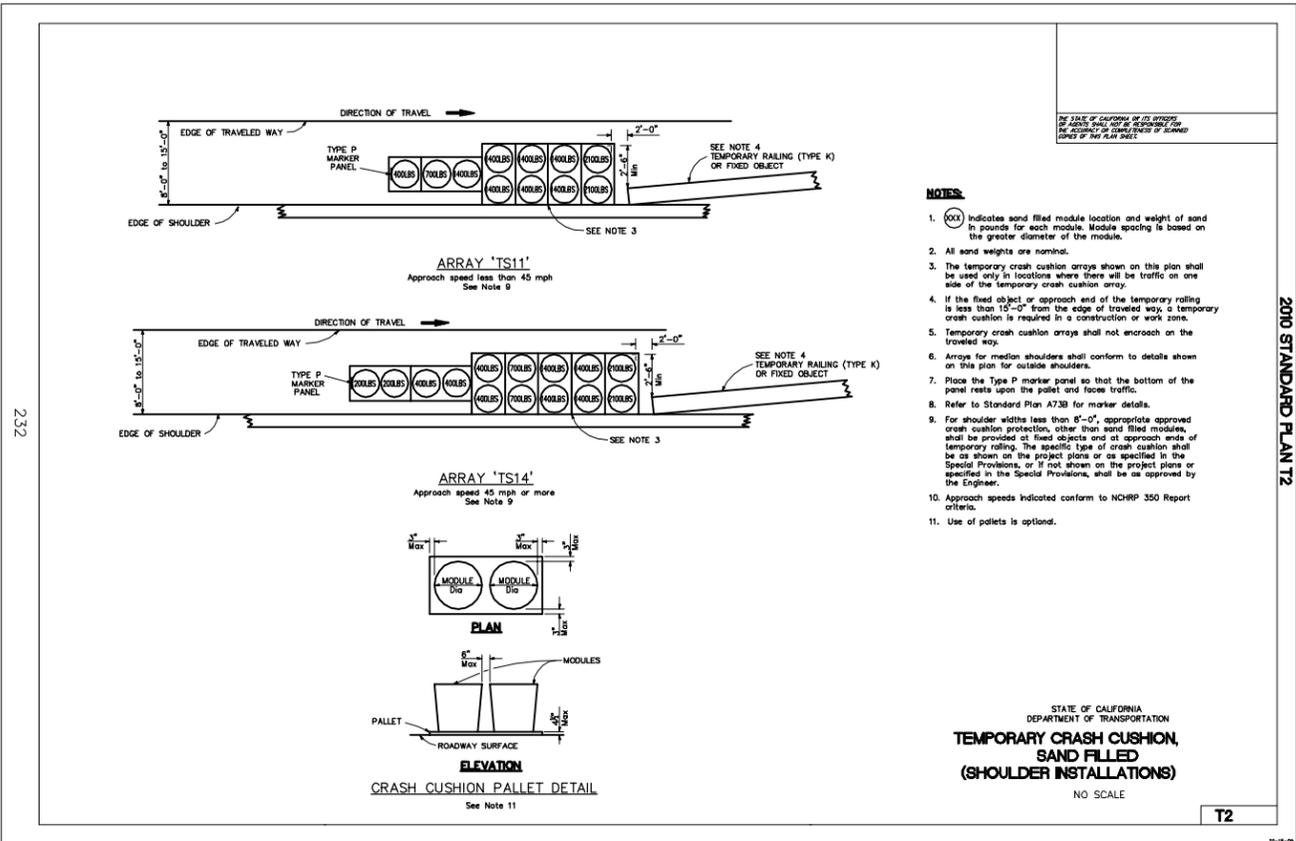
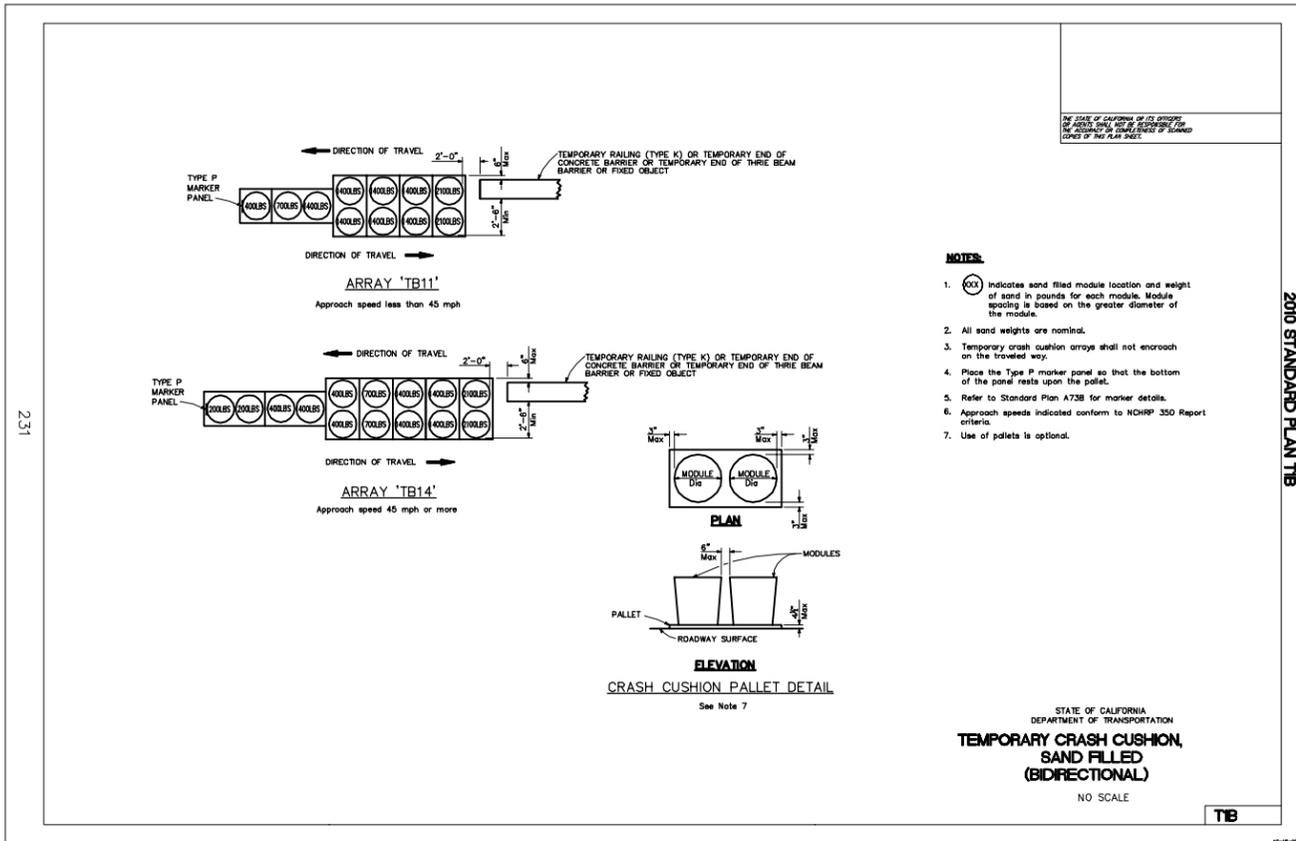
LOS OSOS WASTEWATER COLLECTION SYSTEM

AREA D TRAFFIC CONTROL PLAN  
 DETAIL SHEETS  
 DELINEATORS, CHANNELIZERS AND BARRICADES

SCALE: NO SCALE

PROJECT NO. 42502-83120  
 FILE NAME:  
 SHEET NO.  
**D-TC-004**

XREF: Los Osos-hdr 101b 102  
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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RDH  
 DRAWN BY: RDH  
 CHECKED BY: DAD  
 DATE: MARCH 2012

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 2285 Gateway Oaks Drive, Suite 240  
 Sacramento, CA 95833  
 Tel: (916) 567-9900



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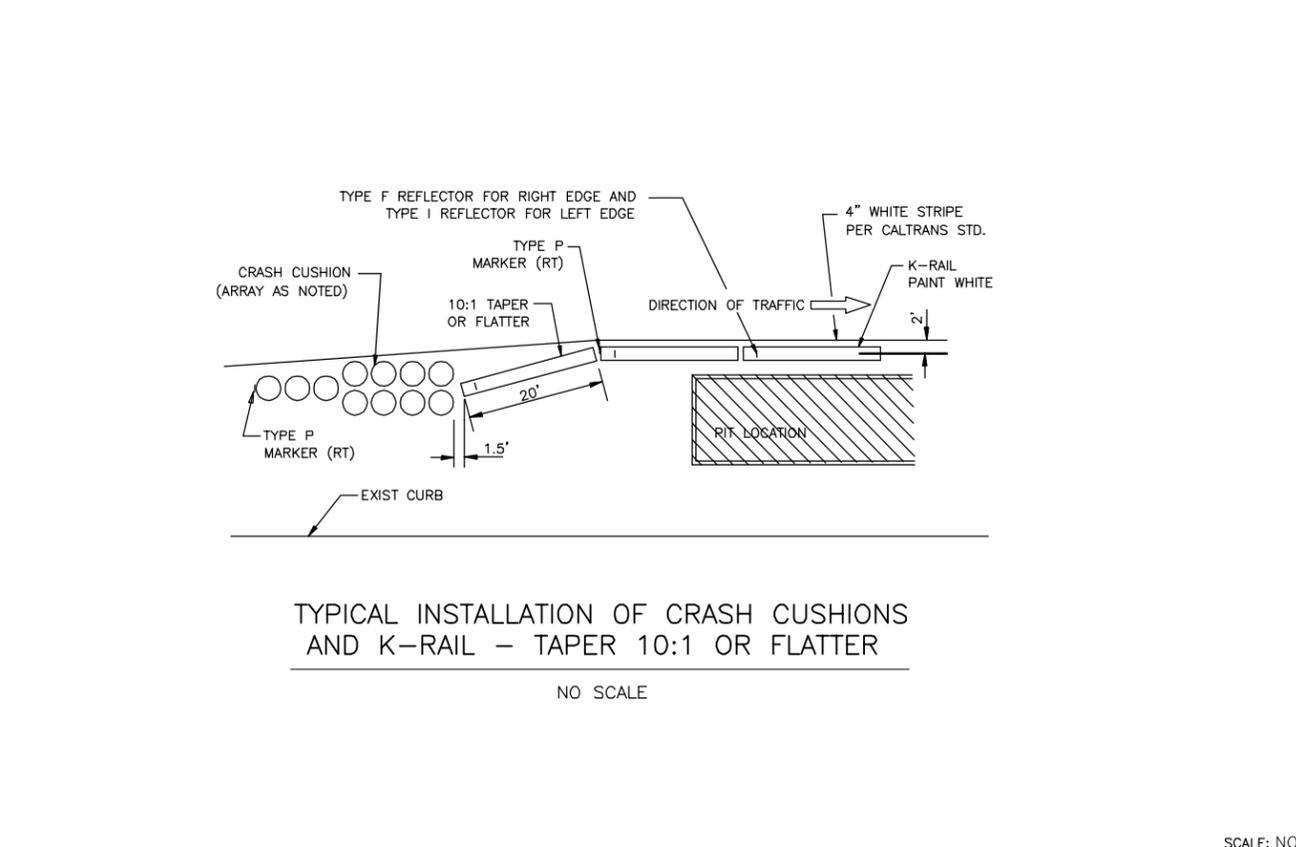
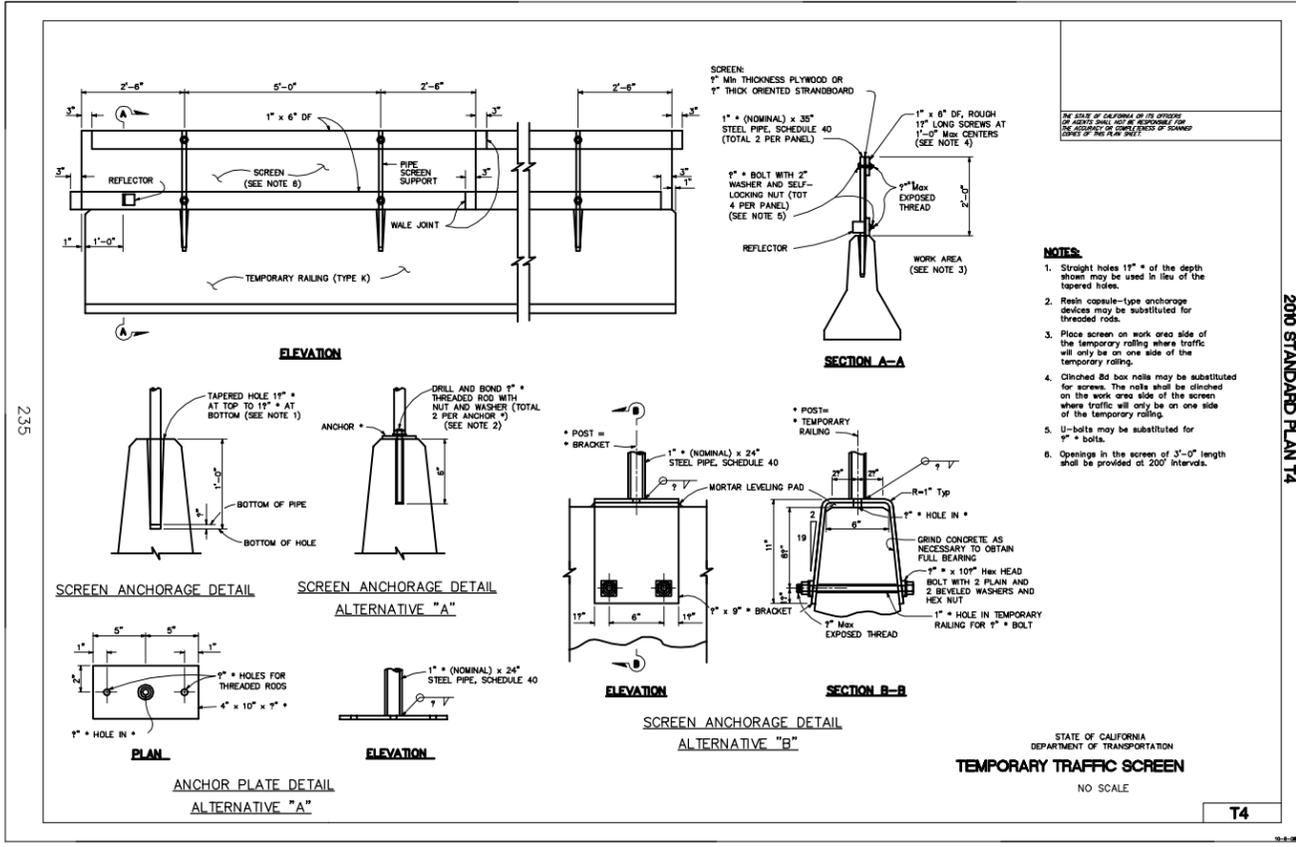
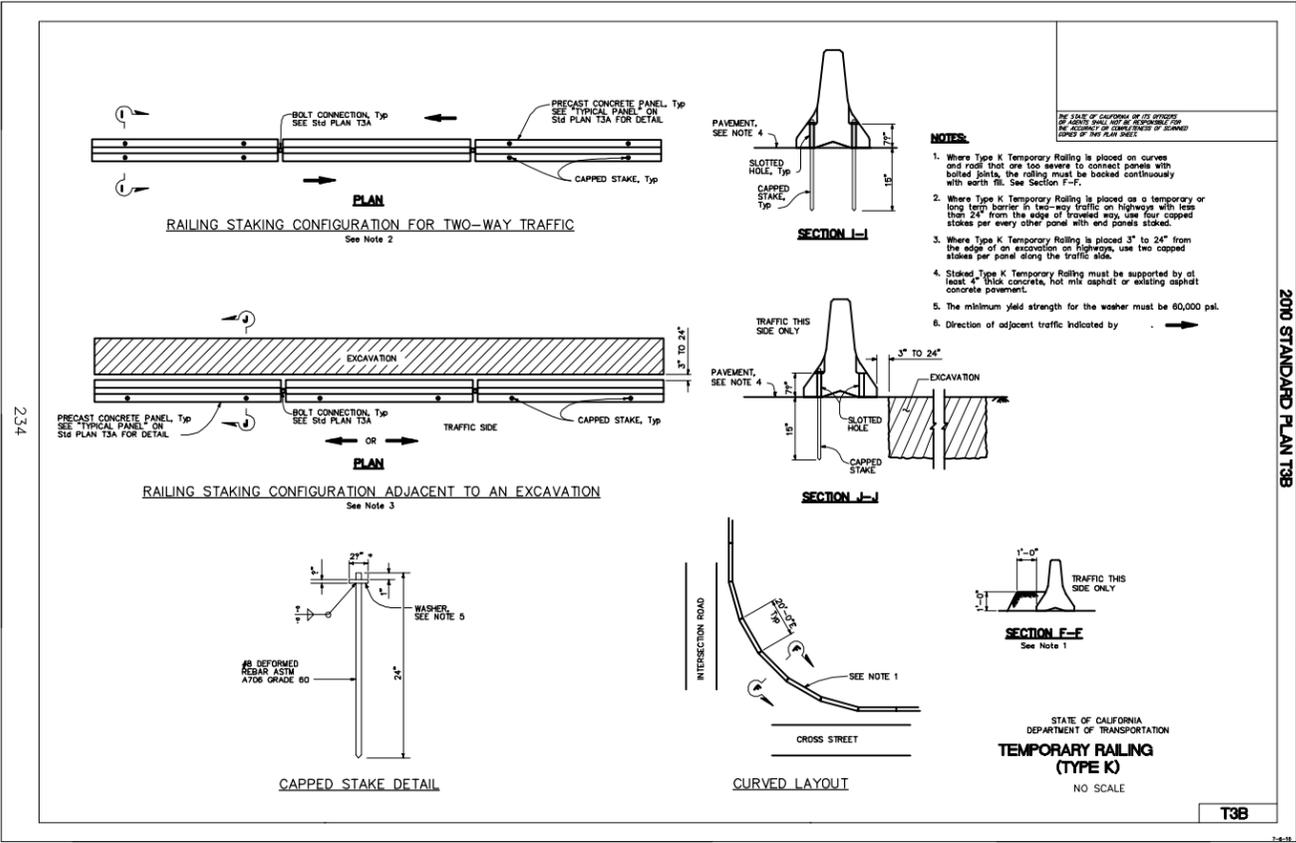
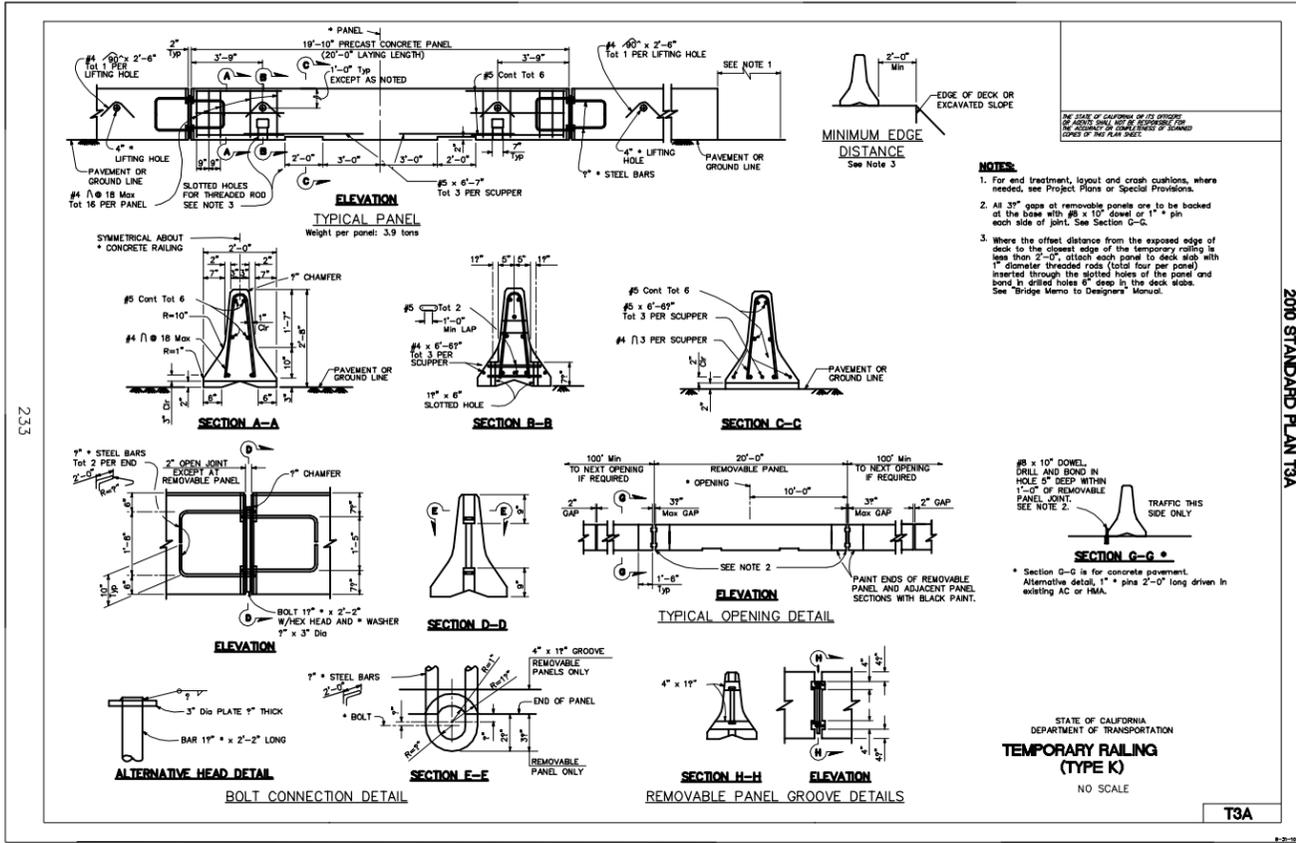


**RICK**  
 711 FINE FARM ROAD - SUITE 110  
 SUI SUITE 110, CA 95821  
 916-442-1100  
 Fax: 916-442-1101  
 Rick - Survey - Plans - Erosion - Control - Design - Plans

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LOS OSOS WASTEWATER COLLECTION SYSTEM  
 AREA D TRAFFIC CONTROL PLAN  
 DETAIL SHEETS  
 CRASH CUSHIONS

SCALE: NO SCALE  
 PROJECT NO. 42502-83120  
 FILE NAME:  
 SHEET NO.  
**D-TC-005**



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RDH  
 DRAWN BY: RDH  
 CHECKED BY: DAD  
 DATE: MARCH 2012

**CDM Smith**

2285 Gateway Oaks Drive, Suite 240  
 Sacramento, CA 95833  
 Tel: (916) 567-9900



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**RICK**

1111 FINE FARM ROAD, SUITE 110  
 2411 LUTHERBURY, CA 95821  
 916-484-7477  
 Fax: 916-484-7478

**DIGALERT**

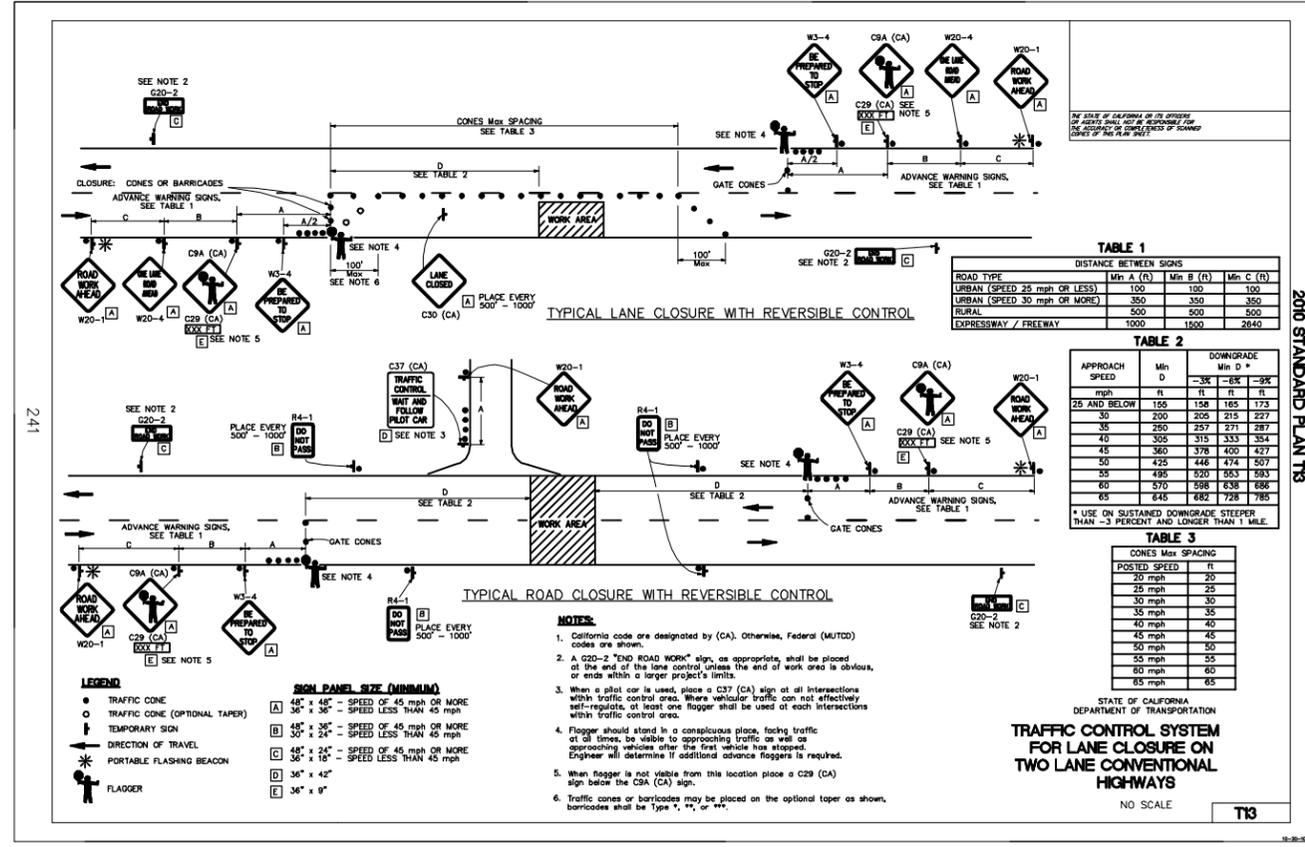
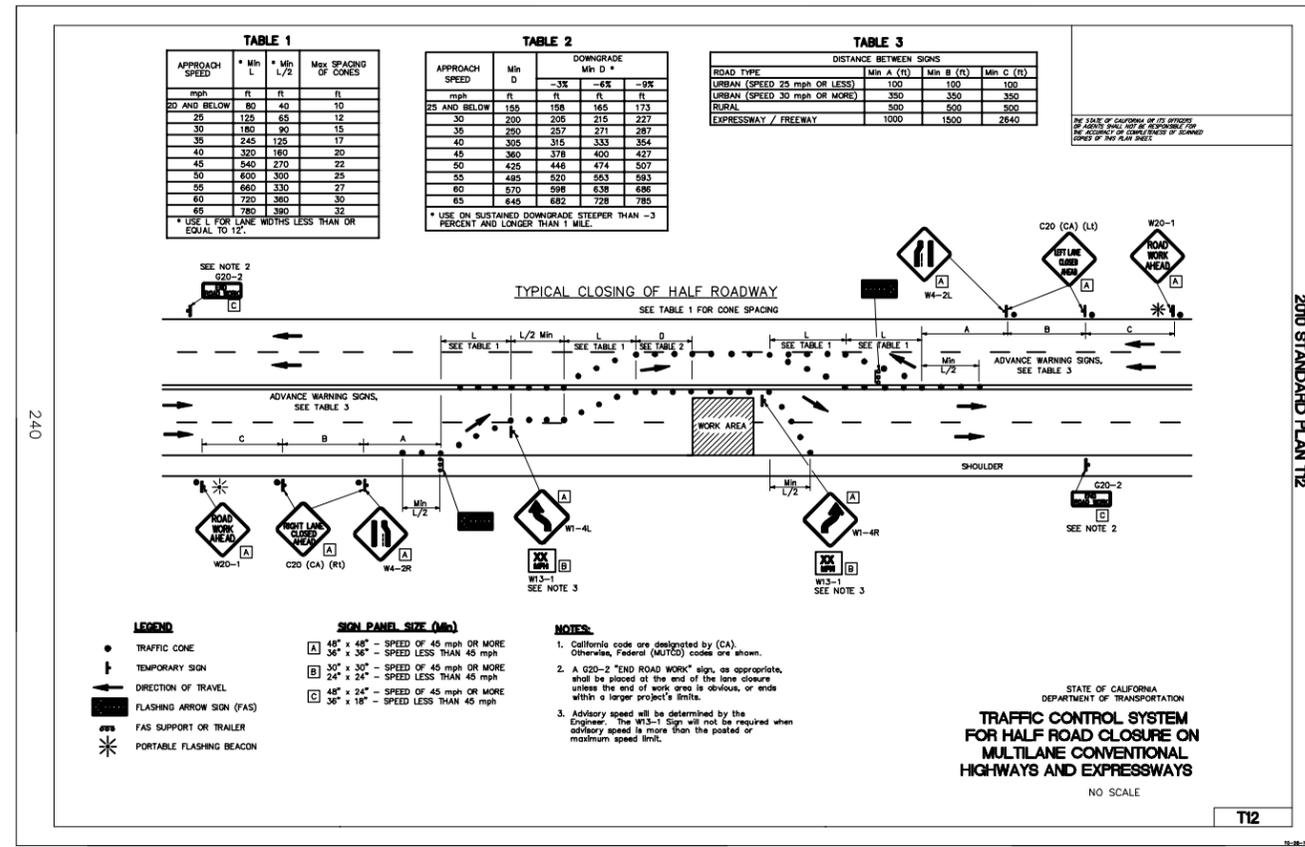
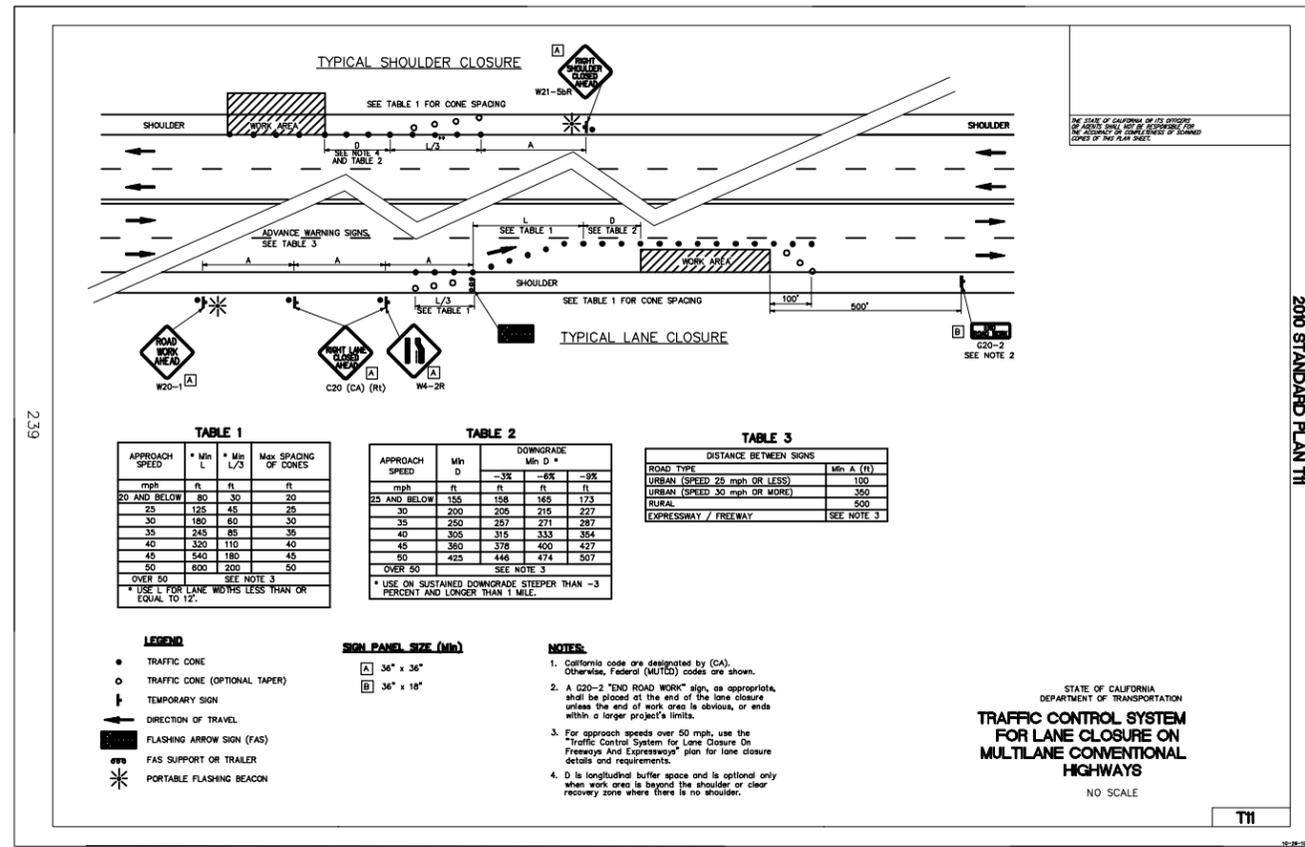
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LOS OSOS WASTEWATER COLLECTION SYSTEM  
 AREA D TRAFFIC CONTROL PLAN  
 DETAIL SHEETS  
 TEMPORARY RAILING (TYPE K)

SCALE: NO SCALE  
 PROJECT NO. 42502-83120  
 FILE NAME:  
 SHEET NO.  
**D-TC-006**

XREF: Los Osos-hdr 111 112 113  
 FILE: L:\16480\_SLO\_County\_Low\_Down\_Sewer\Traffic\CA\Sheet\Area\_D-TC-07.dwg USER: slouwer July 7, 2011 8:16 AM Job No: 16460



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RDH  
DRAWN BY: RDH  
CHECKED BY: DAD  
DATE: MARCH 2012

**CDM Smith**  
2295 Gateway Oaks Drive, Suite 240  
Sacramento, CA 95833  
Tel: (916) 567-9900



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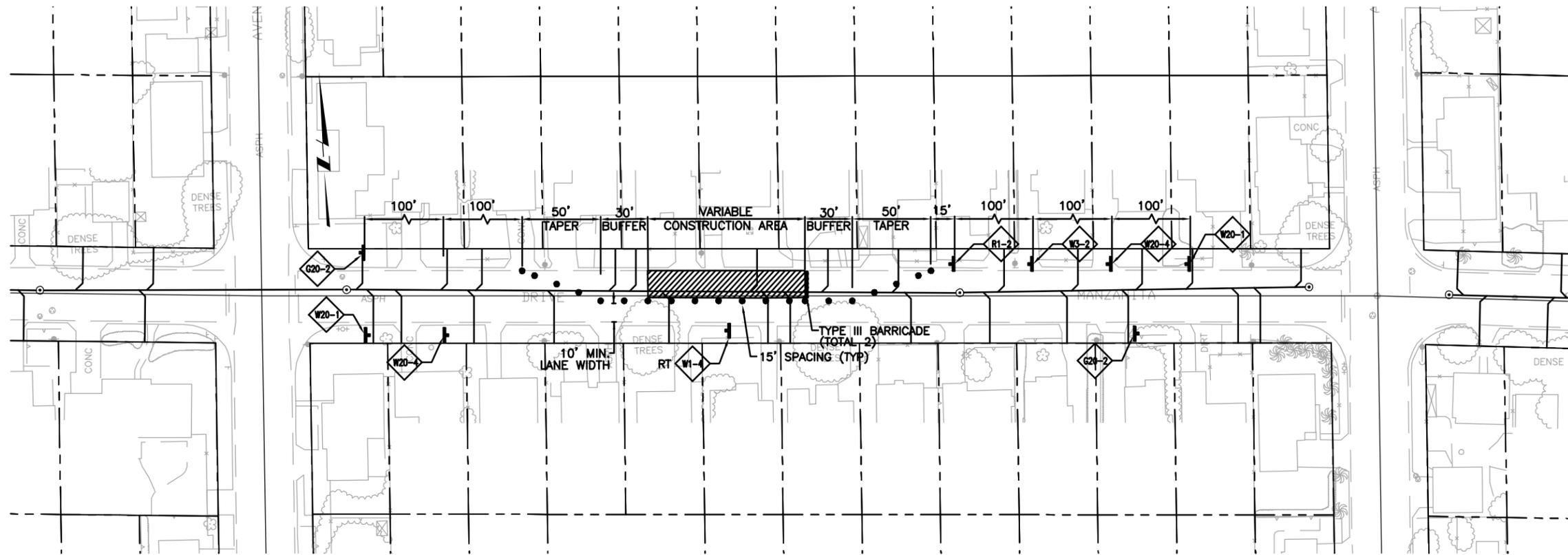
**RICK**  
Professional Engineer  
No. 44378  
Exp. 3/31/12  
CIVIL

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LOS OSOS WASTEWATER COLLECTION SYSTEM  
AREA D TRAFFIC CONTROL PLAN  
DETAIL SHEETS  
CALTRANS TRAFFIC CONTROL PLANS

SCALE: NO SCALE  
PROJECT NO. 42502-83120  
FILE NAME:  
SHEET NO.  
**D-TC-007**

VFILES: Los Osos - Ndr Y-LTI-SITM N-LTI-SS X-FEAT-ASBL X-FEAT-APN X-FEAT-DOED X-FEAT-ROW X-FEAT-CNEB traffic\_RICK X-FEAT-APN  
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**MINOR STREET – TYPICAL MID-BLOCK SINGLE LANE CLOSURE**

**NOTES:**

1. THIS DRAWING SHOWS ONLY ONE STAGE OF TRAFFIC CONTROL. THE CONTRACTOR SHALL INCLUDE THEIR STAGING PLAN IN THEIR OWN TRAFFIC CONTROL PLAN SUBMITTAL. SUBMIT TO THE ENGINEER FOR REVIEW AND ACCEPTANCE.
2. FOR ALL SINGLE LANE CLOSURES ON MINOR STREETS, THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF FIGURE 6H-11 OF THE MUTCD, (2010 CALIFORNIA EDITION), UNLESS FOLLOWING ANY NOTES 3, 4, OR 5 BELOW.
3. IF APPROVED BY THE COUNTY ENGINEER, ON MINOR STREETS WITH VERY LOW TRAFFIC VOLUMES THE CONTRACTOR MAY USE THE TRAFFIC CONTROL MEASURES FOR A SINGLE LANE CLOSURE AS SHOWN IN FIGURE 6H-18 OF THE MUTCD (2010 CALIFORNIA EDITION)
4. AT THE OPTION OF THE CONTRACTOR, ONE-LANE TRAFFIC CONTROL WITH FLAGGERS MAY BE USED IN LIEU OF THIS TRAFFIC CONTROL LAYOUT. FOR TRAFFIC CONTROL WITH FLAGGERS, CONTRACTOR SHALL FOLLOW FIGURE 6H-10(CA) OF THE MUTCD (2010 CALIFORNIA EDITION)
5. WHEN MINOR STREET ROAD CLOSURES ARE ALLOWED, THE CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF THE MUTCD (2010 CALIFORNIA EDITION) FOR DETOUR SIGNAGE, INCLUDING 48-HOUR DOORKNOB NOTICING TO AFFECTED RESIDENTS. SUBMIT DETOUR PLANS TO THE ENGINEER FOR REVIEW AND ACCEPTANCE.
6. 10' MINIMUM LANE WIDTH SHALL BE MAINTAINED AT ALL TIMES ON MINOR STREETS WHEN OPEN TO PUBLIC TRAFFIC. LANE WIDTH IS MEASURED FROM THE NEAR EDGE OF CHANNELIZING DEVICES TO THE EDGE OF PAVEMENT OR CURB/AC BERM FLOWLINE.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RDH  
 DRAWN BY: RDH  
 CHECKED BY: DAD  
 DATE: MARCH 2012

**CDM Smith**  
 2295 Gateway Oaks Drive, Suite 240  
 Sacramento, CA 95833  
 Tel: (916) 567-9900



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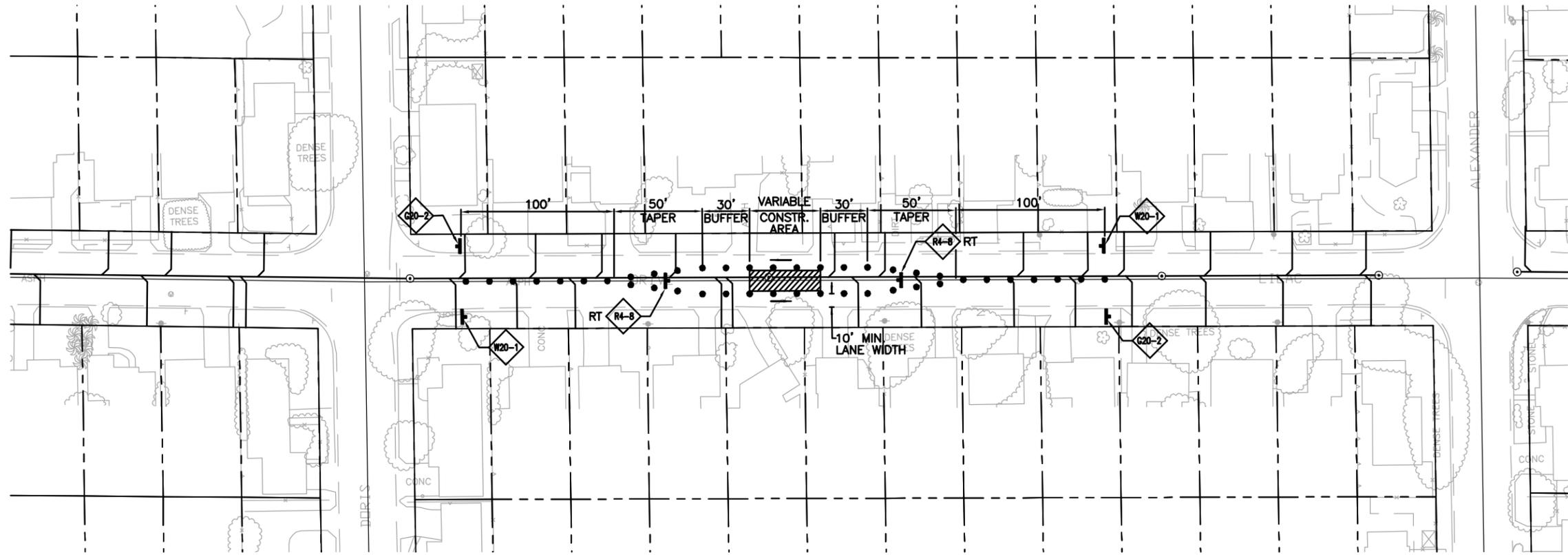
**RICK**  
 711 FARMER RD. SUITE 100  
 SACRAMENTO, CA 95841  
 (916) 444-2222  
 Fax: (916) 444-2223

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LOS OSOS WASTEWATER COLLECTION SYSTEM  
 AREA D TRAFFIC CONTROL PLAN  
 TYPICAL MINOR STREET  
 MID-BLOCK CONSTRUCTION

SCALE: 1"=40'  
 PROJECT NO. 42502-83120  
 FILE NAME:  
 SHEET NO.  
**D-TC-008**

VFILES: Los Osos - LUTL - STRM - N - LUTL - SS - X - FEAT - AERL - Y - FEAT - APN - X - FEAT - ROW - N - FEAT - CNBL - Traffic - RICK - X - FEAT - APN  
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**MINOR STREET – TYPICAL ROADWAY CENTER CLOSURE**

**NOTES:**

1. THIS DRAWING SHOWS ONLY ONE STAGE OF TRAFFIC CONTROL. THE CONTRACTOR SHALL INCLUDE THEIR STAGING PLAN IN THEIR OWN TRAFFIC CONTROL PLAN SUBMITTAL. SUBMIT TO THE ENGINEER FOR REVIEW AND ACCEPTANCE.
2. FOR ADDITIONAL NOTES AND REQUIREMENTS RELATED TO TRAFFIC CONTROL FOR WORK IN THE CENTER OF A MINOR STREET, CONTRACTOR SHALL FOLLOW FIGURE 6H-15 OF THE MUTCD (2010 CALIFORNIA EDITION)
3. WHEN MINOR STREET ROAD CLOSURES ARE ALLOWED, THE CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF THE MUTCD (2010 CALIFORNIA EDITION) FOR DETOUR SIGNAGE, INCLUDING 48-HOUR DOORKNOB NOTICING TO AFFECTED RESIDENTS. SUBMIT DETOUR PLANS TO THE ENGINEER FOR REVIEW AND ACCEPTANCE.
4. 10' MINIMUM LANE WIDTHS SHALL BE MAINTAINED AT ALL TIMES. LANE WIDTH IS MEASURED FROM THE NEAR EDGE OF CHANNELIZING DEVICES TO THE EDGE OF PAVEMENT OR CURB/AC BERM FLOWLINE.

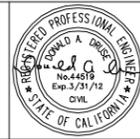
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RDH  
 DRAWN BY: RDH  
 CHECKED BY: DAD  
 DATE: MARCH 2012

**CDM Smith**  
 2295 Gateway Oaks Drive, Suite 240  
 Sacramento, CA 95833  
 Tel: (916) 567-9900



0 1/2 1  
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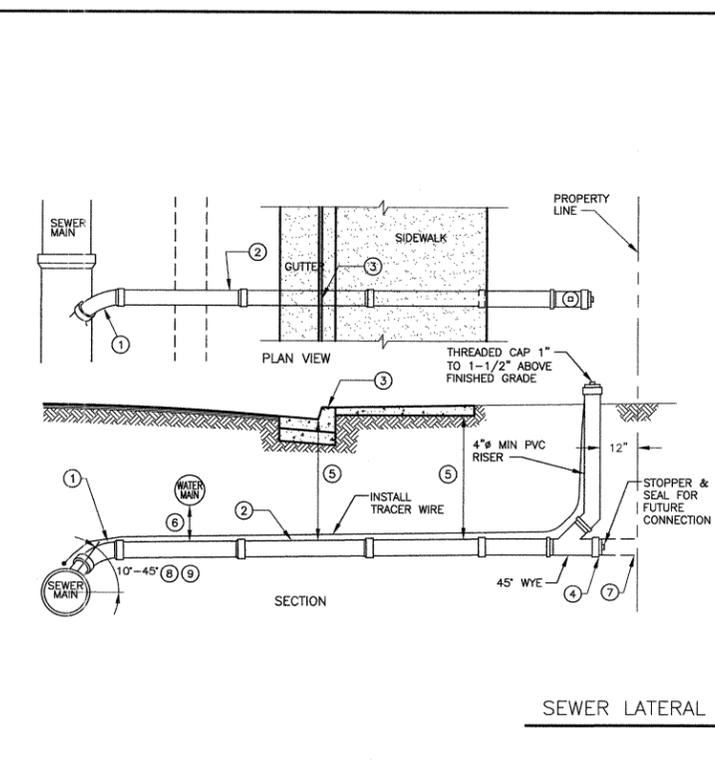
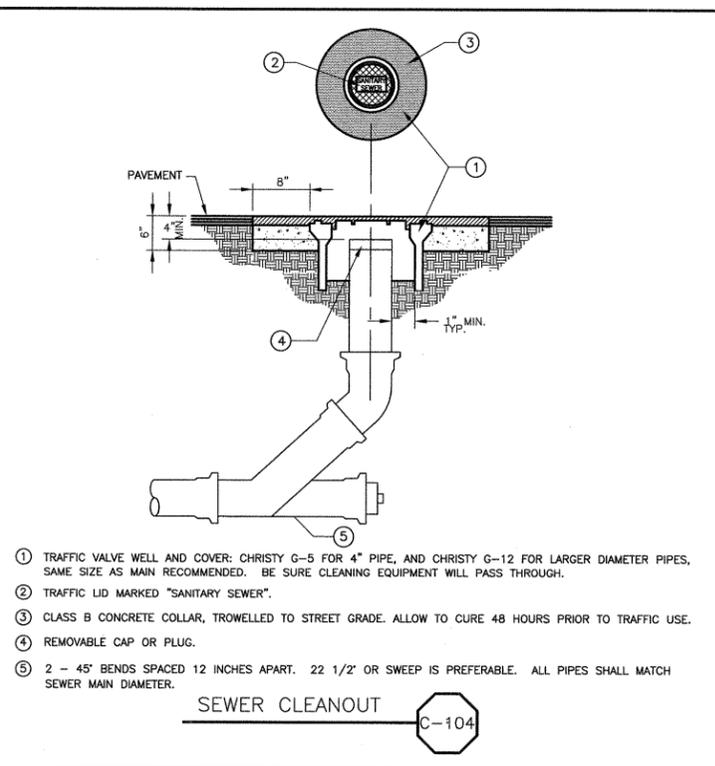
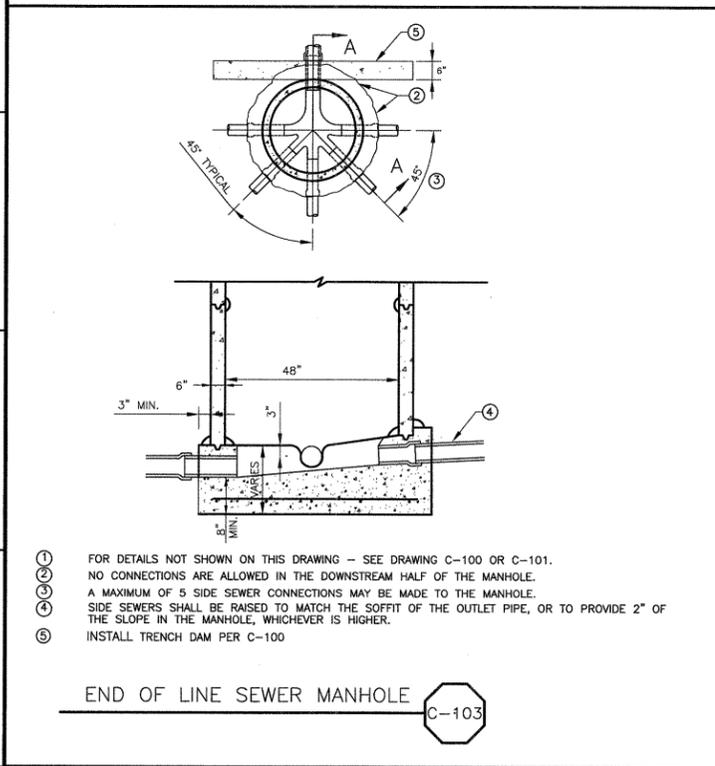
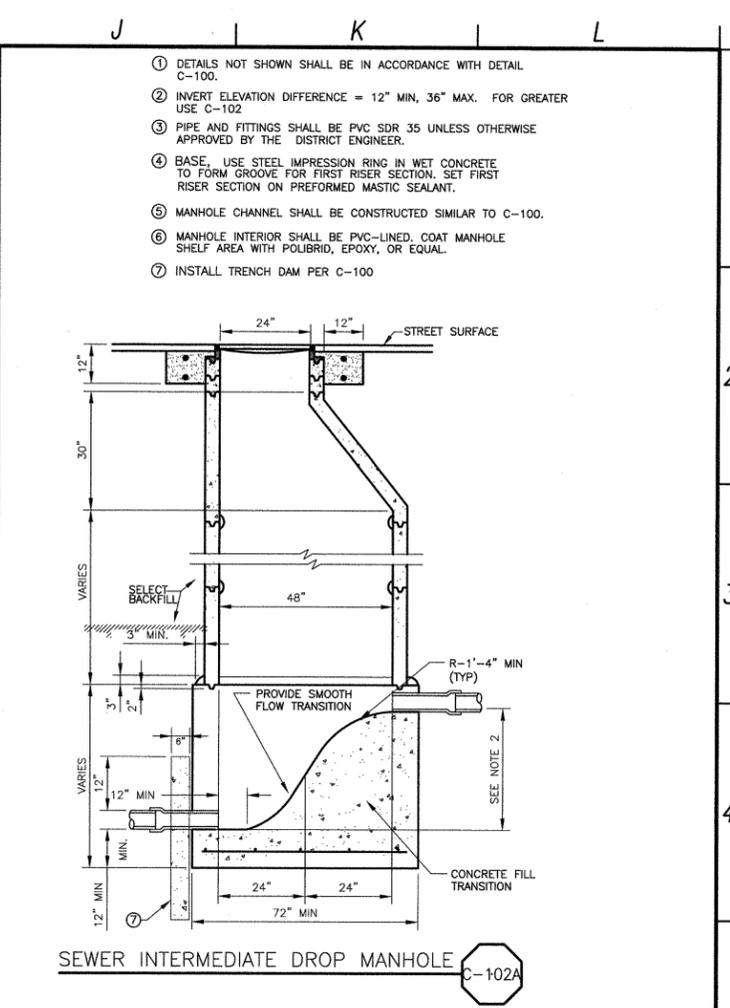
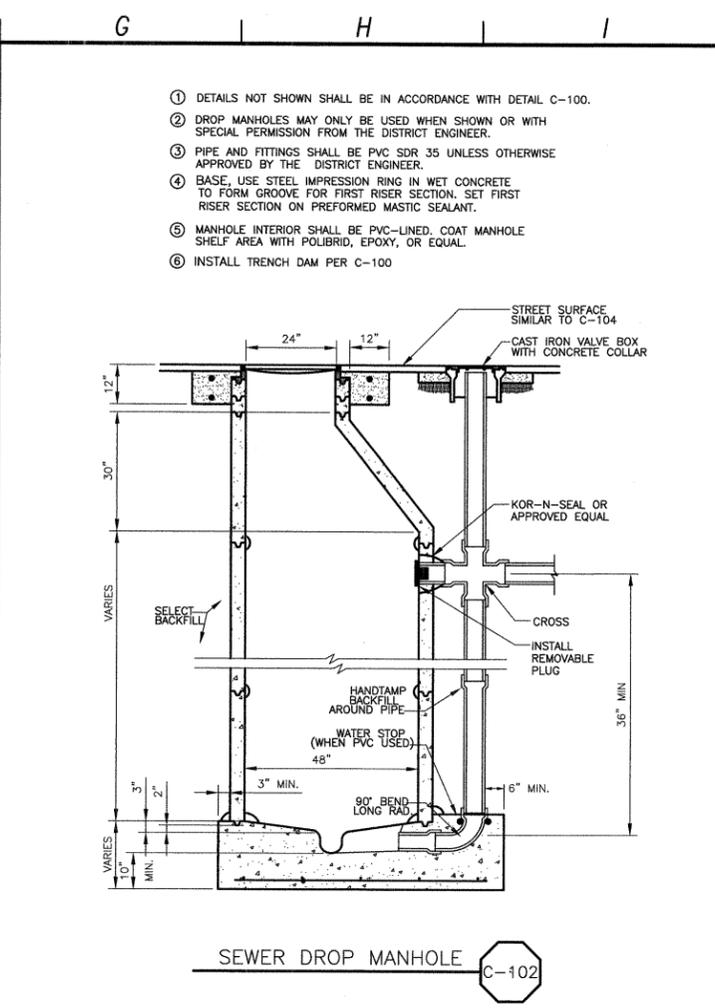
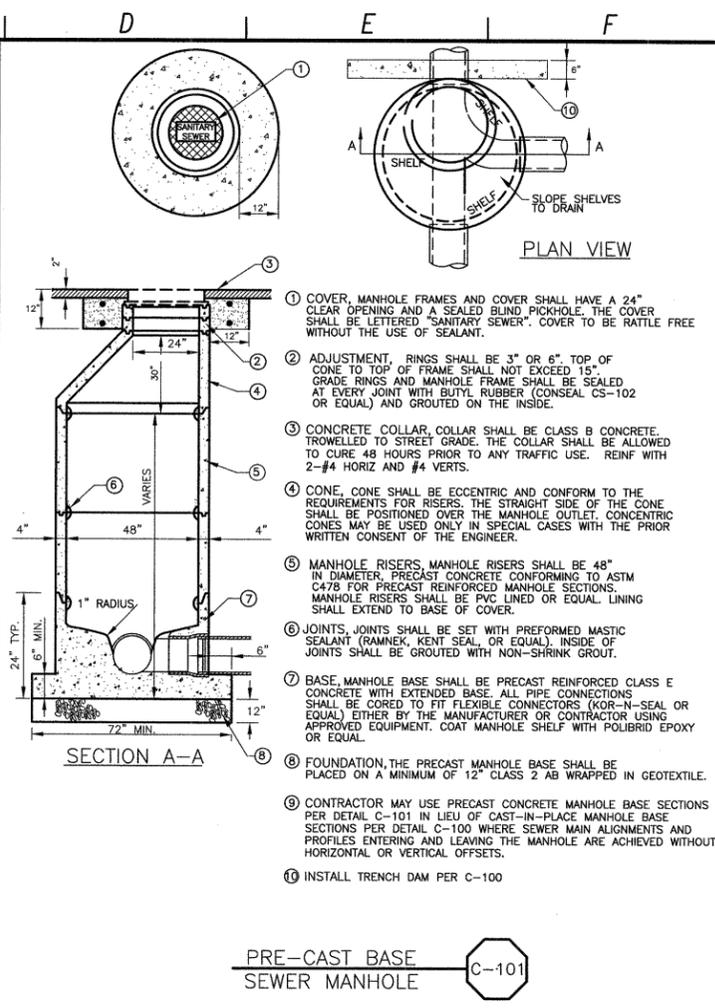
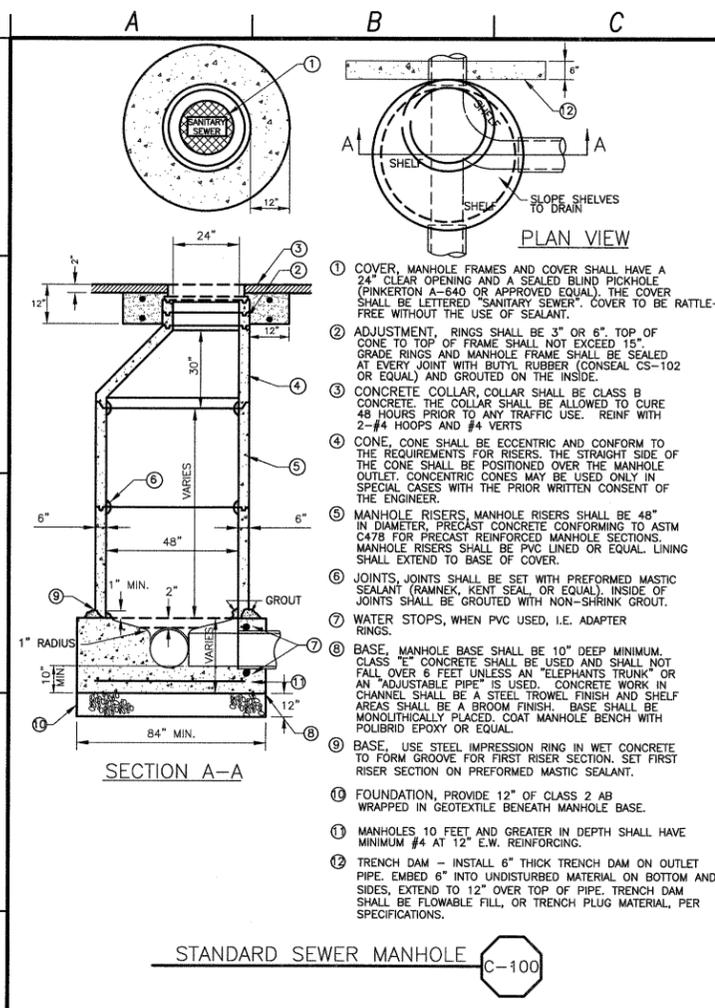


LOS OSOS WASTEWATER COLLECTION SYSTEM  
 AREA D TRAFFIC CONTROL PLAN  
 TYPICAL MINOR STREET  
 MID-BLOCK ROADWAY CENTER CLOSURE

SCALE: 1"=40'  
 PROJECT NO. 42502-83120  
 FILE NAME:  
 SHEET NO.  
**D-TC-009**



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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: BJC  
 DRAWN BY: JAW  
 CHECKED BY: BJC  
 DATE: MARCH, 2012

**CDM Smith**  
 2295 Gateway Oaks Drive, Suite 240  
 Sacramento, CA 95833  
 Tel: (916) 987-9900



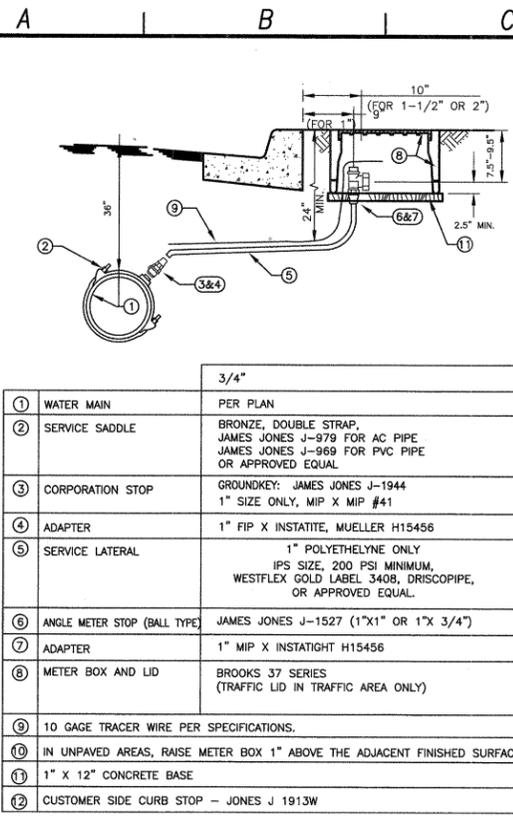
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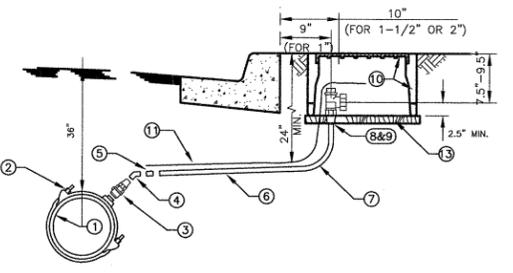
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LOS OSOS WASTEWATER COLLECTION SYSTEM  
**GENERAL CIVIL STANDARD CIVIL DETAILS - 1**  
 PROJECT NO. 42502-83120  
 FILE NAME: D-GC-060  
 SHEET NO. D-GC-060

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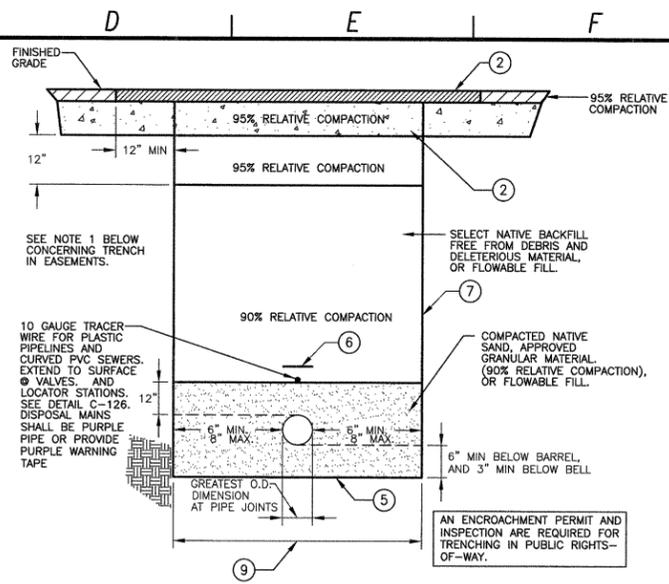


**SINGLE WATER SERVICE** C-110



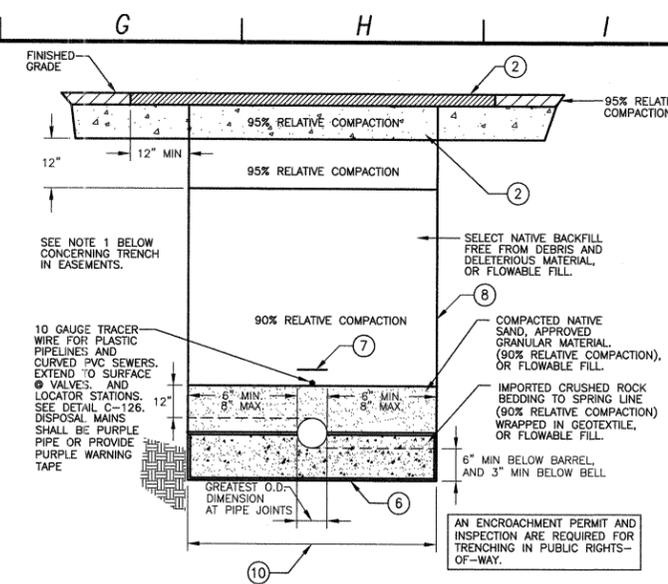
1	WATER MAIN	1-1/2"	PER PLAN
2	SERVICE SADDLE		BRONZE, DOUBLE STRAP, JAMES JONES J-979 FOR AC PIPE, JAMES JONES J-989 FOR PVC PIPE OR APPROVED EQUAL
3	CORPORATION STOP		BALL VALVE: JAMES JONES J-1943, 2" SIZE ONLY, MIP X MIP
4	BRASS 45° EL		2" 45° ELBOW ONLY
5	ADAPTER		FORD 2" PAC COUPLING X MIP
6	SERVICE LATERAL		2" SCH 80 PVC ONLY
7	90° ELBOW		2" SCH 80 90° ELBOW
8	ANGLE METER STOP (BALL TYPE)		FORD FB11027
9	ADAPTER		2" SCH 80 MIP X SOC
10	METER BOX AND LID		BROOKS 38 SERIES (TRAFFIC LID IF IN DRIVEWAY)
11	10 GAGE TRACER WIRE		PER SPECIFICATIONS.
12	IN UNPAVED AREAS, RAISE METER BOX		1" ABOVE THE ADJACENT FINISHED SURFACE.
13	1" X 12" CONCRETE BASE		
14	CUSTOMER SIDE CURB STOP		- JF108

**SINGLE WATER SERVICE** C-111



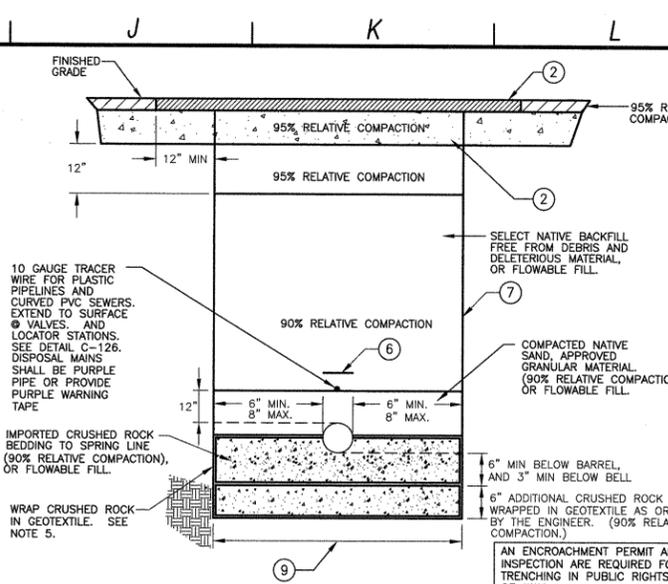
- NOTES:**
- A MINIMUM OF 90% RELATIVE COMPACTION IS PERMITTED IN A NON-ROADWAY TRENCH WHEN NO STRUCTURES ARE TO BE BUILT OVER THE TRENCH. IF STRUCTURES ARE TO BE BUILT OVER THE TRENCH, USE RELATIVE COMPACTIONS SHOWN ON THE TRENCH SECTION ABOVE.
  - PAVEMENT SECTIONS SHALL BE NO LESS THAN EXISTING STRUCTURAL SECTIONS, AND AS REQUIRED BY THE COUNTY FOR TRENCHES WITHIN A COUNTY RIGHT-OF-WAY. SEE DETAIL C-120.
  - SEE DETAIL C-116B FOR WET TRENCH SECTION.
  - A DRY TRENCH IS A TRENCH IN NON-GROUNDWATER AREAS.
  - WHERE THE BOTTOM OF THE TRENCH HAS BEEN DISTURBED, THE CONTRACTOR SHALL SCARIFY AND COMPACT THE SUBGRADE TO 90% RELATIVE COMPACTION.
  - 3" WIDE POLYETHYLENE NON-DETECTABLE WARNING TAPE 12" ABOVE ALL PIPE AND LATERALS.
  - VERTICAL TRENCH WALL DEPICTED, SHORING SHALL BE DESIGNED BY CONTRACTOR. TRENCH WALLS MAY BE SLOPED, CONTRACTOR SHALL COORDINATE TRENCH CONFIGURATION WITH OTHER GRAVITY, FORCEMAIN, RECYCLED WATER, AND CONDUIT PIPELINE TRENCH SECTIONS, AND CONFORM TO CULTURAL AND ENVIRONMENTAL RESTRICTIONS, THE TRAFFIC MANAGEMENT PLAN REQUIREMENTS, AND SHALL PROTECT EXISTING IMPROVEMENTS.
  - IF FLOWABLE FILL IS USED FOR BACKFILL, CONTRACTOR SHALL PROTECT AGAINST BUOYANT FORCE.
  - THIS DIMENSION AT PIPE SPRINGLINE, PLUS 24" FOR T-CUT, CONSTITUTES THE PAY LIMIT FOR AC AND AB REPLACEMENT, UNO IN TABLE 1 OF DETAIL C-120A

**PIPELINE DRY TRENCH SECTION** 10" AND SMALLER C-116



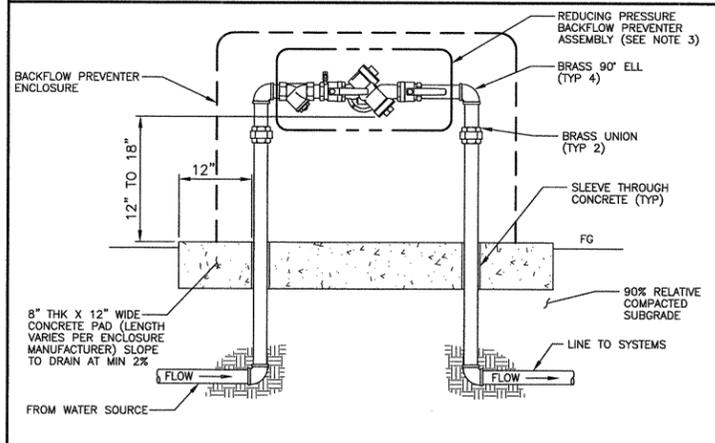
- NOTES:**
- A MINIMUM OF 90% RELATIVE COMPACTION IS PERMITTED IN A NON-ROADWAY TRENCH WHEN NO STRUCTURES ARE TO BE BUILT OVER THE TRENCH. IF STRUCTURES ARE TO BE BUILT OVER THE TRENCH, USE RELATIVE COMPACTIONS SHOWN ON THE TRENCH SECTION ABOVE.
  - PAVEMENT SECTIONS SHALL BE NO LESS THAN EXISTING STRUCTURAL SECTIONS, AND AS REQUIRED BY THE COUNTY FOR TRENCHES WITHIN A COUNTY RIGHT-OF-WAY. SEE DETAIL C-120.
  - SEE DETAIL C-116B FOR WET TRENCH SECTION.
  - A DRY TRENCH IS A TRENCH IN NON-GROUNDWATER AREAS.
  - ENDS OF GEOTEXTILE SHALL TOUCH PIPE BARREL. GEOTEXTILE MAY BE LAPPED UNDER PIPE IF DESIRED.
  - WHERE THE BOTTOM OF THE TRENCH HAS BEEN DISTURBED, THE CONTRACTOR SHALL SCARIFY AND COMPACT THE SUBGRADE TO 90% RELATIVE COMPACTION.
  - 3" WIDE POLYETHYLENE NON-DETECTABLE WARNING TAPE 12" ABOVE ALL PIPE AND LATERALS.
  - VERTICAL TRENCH WALL DEPICTED, SHORING SHALL BE DESIGNED BY CONTRACTOR. TRENCH WALLS MAY BE SLOPED, CONTRACTOR SHALL COORDINATE TRENCH CONFIGURATION WITH OTHER GRAVITY, FORCEMAIN, RECYCLED WATER, AND CONDUIT PIPELINE TRENCH SECTIONS, AND CONFORM TO CULTURAL AND ENVIRONMENTAL RESTRICTIONS, THE TRAFFIC MANAGEMENT PLAN REQUIREMENTS, AND SHALL PROTECT EXISTING IMPROVEMENTS.
  - IF FLOWABLE FILL IS USED FOR BACKFILL, CONTRACTOR SHALL PROTECT AGAINST BUOYANT FORCE.
  - THIS DIMENSION AT PIPE SPRINGLINE, PLUS 24" FOR T-CUT, CONSTITUTES THE PAY LIMIT FOR AC AND AB REPLACEMENT, UNO IN TABLE 1 OF DETAIL C-120A

**PIPELINE DRY TRENCH SECTION** 12" AND LARGER C-116A



- NOTES:**
- A MINIMUM OF 90% RELATIVE COMPACTION IS PERMITTED IN A NON-ROADWAY TRENCH WHEN NO STRUCTURES ARE TO BE BUILT OVER THE TRENCH. IF STRUCTURES ARE TO BE BUILT OVER THE TRENCH, USE RELATIVE COMPACTIONS SHOWN ON THE TRENCH SECTION ABOVE.
  - PAVEMENT SECTIONS SHALL BE NO LESS THAN EXISTING STRUCTURAL SECTIONS, AND AS REQUIRED BY THE COUNTY FOR TRENCHES WITHIN A COUNTY RIGHT-OF-WAY. SEE DETAIL C-120.
  - SEE DETAILS C-116 AND C-116A FOR DRY TRENCH SECTIONS.
  - A WET TRENCH IS A TRENCH IN GROUNDWATER AREAS BUT HAS BEEN DEWATERED IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS.
  - ENDS OF GEOTEXTILE SHALL TOUCH PIPE BARREL. GEOTEXTILE MAY BE LAPPED UNDER PIPE IF DESIRED.
  - 3" WIDE POLYETHYLENE NON-DETECTABLE WARNING TAPE 12" ABOVE ALL PIPE AND LATERALS.
  - VERTICAL TRENCH WALL DEPICTED, SHORING SHALL BE DESIGNED BY CONTRACTOR. TRENCH WALLS MAY BE SLOPED, CONTRACTOR SHALL COORDINATE TRENCH CONFIGURATION WITH OTHER GRAVITY, FORCEMAIN, RECYCLED WATER, AND CONDUIT PIPELINE TRENCH SECTIONS, AND CONFORM TO CULTURAL AND ENVIRONMENTAL RESTRICTIONS, THE TRAFFIC MANAGEMENT PLAN REQUIREMENTS, AND SHALL PROTECT EXISTING IMPROVEMENTS.
  - IF FLOWABLE FILL IS USED FOR BACKFILL, CONTRACTOR SHALL PROTECT AGAINST BUOYANT FORCE.
  - THIS DIMENSION AT PIPE SPRINGLINE, PLUS 24" FOR T-CUT, CONSTITUTES THE PAY LIMIT FOR AC AND AB REPLACEMENT, UNO IN TABLE 1 OF DETAIL C-120A

**PIPELINE WET TRENCH SECTION** ALL DIAMETERS C-116B



- NOTES:**
- EQUIPMENT TO BE INSTALLED AT A MINIMUM OF 24" FROM ANY STRUCTURES OR HARDSCAPING.
  - WHEN UNIT IS NEXT TO A STRUCTURE (I.E. WALL, BUILDING, ETC.) MOUNT TEST COCKS ON OPEN OR NON-STRUCTURE SIDE.
  - SHALL BE FEBCO 825YA OR APPROVED EQUAL.

**BACKFLOW PREVENTER WITH ENCLOSURE** NOT TO SCALE C-112

DESIGNED BY: BJC  
 DRAWN BY: JAW  
 CHECKED BY: MDM  
 DATE: MARCH, 2012

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 Sacramento, CA 95833  
 Tel: (916) 987-9900



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LOS OSOS WASTEWATER COLLECTION SYSTEM  
**GENERAL CIVIL STANDARD CIVIL DETAILS - 2**

PROJECT NO. 42502-83120  
 FILE NAME: D-GC-061  
 SHEET NO. D-GC-061

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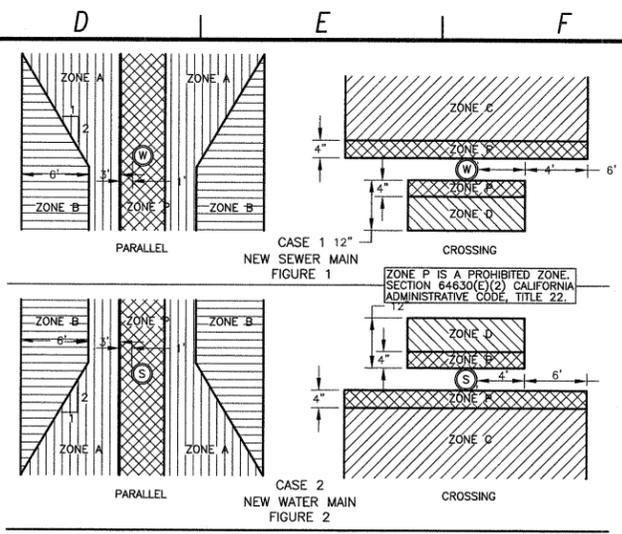
**CRITERIA FOR THE SEPARATION OF WATER MAINS AND SANITARY SEWERS**  
 CASE 1  
 NEW SEWER MAIN BEING INSTALLED  
 (SEE FIGURE 1)

ZONE	SPECIAL CONSTRUCTION REQUIRED FOR SEWER:
A	SEWER LINES PARALLEL TO WATER MAINS SHALL NOT BE PERMITTED IN THIS ZONE WITHOUT APPROVAL FROM THE RESPONSIBLE HEALTH AGENCY AND WATER SUPPLIER.
B	A SEWER LINE PLACED PARALLEL TO A WATER LINE SHALL BE CONSTRUCTED OF: 1. PLASTIC SEWER PIPE WITH RUBBER RING JOINTS (PER ASTM D3034) OR EQUIVALENT. 2. CAST OR DUCTILE IRON PIPE WITH COMPRESSION JOINTS.
C	A SEWER LINE CROSSING A WATER MAIN SHALL BE CONSTRUCTED OF: 1. DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING AND MECHANICAL JOINTS. 2. A CONTINUOUS SECTION OF CLASS 200 (DR 14 PER AWWA C900) PLASTIC PIPE, OR EQUIVALENT, CENTERED OVER THE PIPE BEING CROSSED. 3. ANY SEWER PIPE WITHIN A CONTINUOUS SLEEVE.
D	A SEWER LINE CROSSING A WATER MAIN SHALL BE CONSTRUCTED OF: 1. A CONTINUOUS SECTION OF DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING. 2. A CONTINUOUS SECTION OF CLASS 200 (DR 14 PER AWWA C900) PLASTIC PIPE OR EQUIVALENT, CENTERED OVER THE PIPE BEING CROSSED. 3. ANY SEWER PIPE WITHIN A CONTINUOUS SLEEVE. 4. ANY SEWER PIPE SEPARATED BY A TEN-FOOT BY TEN-FOOT, FOUR-INCH THICK REINFORCED CONCRETE SLAB.

**CRITERIA FOR THE SEPARATION OF WATER MAINS AND SANITARY SEWERS**  
 CASE 2  
 NEW WATER MAIN BEING INSTALLED  
 (SEE FIGURE 2)

ZONE	SPECIAL CONSTRUCTION REQUIRED FOR WATER:
A	NO WATER MAINS PARALLEL TO SERVICE SHALL BE CONSTRUCTED WITHOUT APPROVAL FROM THE HEALTH AGENCY.
B	IF THE SEWER PARALLELING THE WATER MAIN DOES NOT MEET THE CASE 1, ZONE B REQUIREMENTS, THE WATER MAIN SHALL BE CONSTRUCTED OF: 1. DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING. 2. DIPPED AND WRAPPED ONE-FOURTH-INCH-THICK WELDED STEEL PIPE. 3. CLASS 200 PRESSURE RATED PLASTIC WATER PIPE (DR 14 PER AWWA C900) OR EQUIVALENT. 4. REINFORCED CONCRETE PRESSURE PIPE, STEEL CYLINDER TYPE, PER AWWA (C300-74, C301-79 OR C303-70). 5. CLASS 200, TYPE II, ASBESTOS-CEMENT PRESSURE PIPE.
C	IF THE SEWER CROSSING THE WATER MAIN DOES NOT MEET THE CASE 1, ZONE C REQUIREMENTS, THE WATER MAIN SHALL HAVE NO JOINTS IN ZONE C AND BE CONSTRUCTED OF: 1, 2, 3 OR 4 AS IN ZONE B, ABOVE.
D	IF THE SEWER CROSSING THE WATER MAIN DOES NOT MEET THE CASE 1, ZONE D REQUIREMENTS, THE WATER MAIN SHALL HAVE NO JOINTS WITHIN FOUR FEET FROM EITHER SIDE OF THE SEWER AND SHALL BE CONSTRUCTED OF: 1, 2, 3 OR 4 AS IN ZONE B, ABOVE.

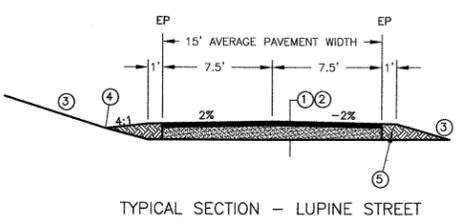
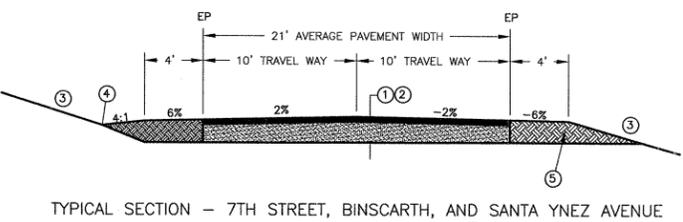
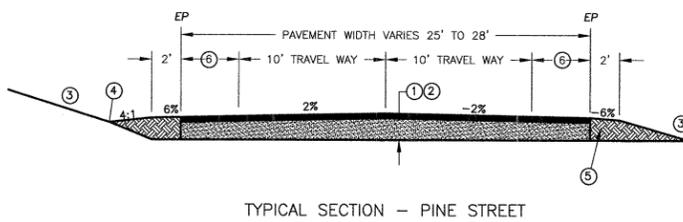
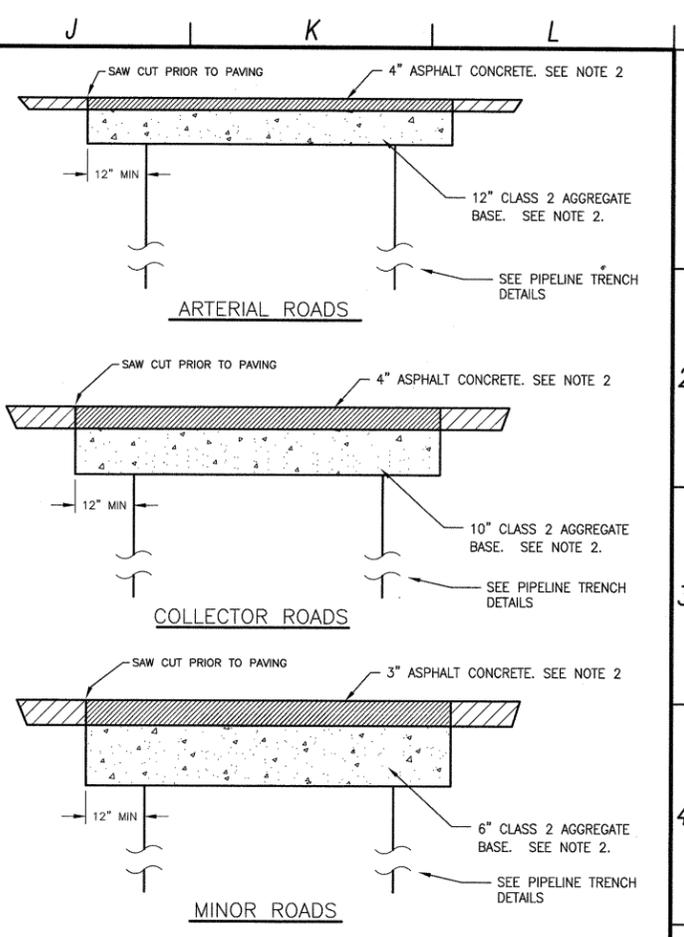
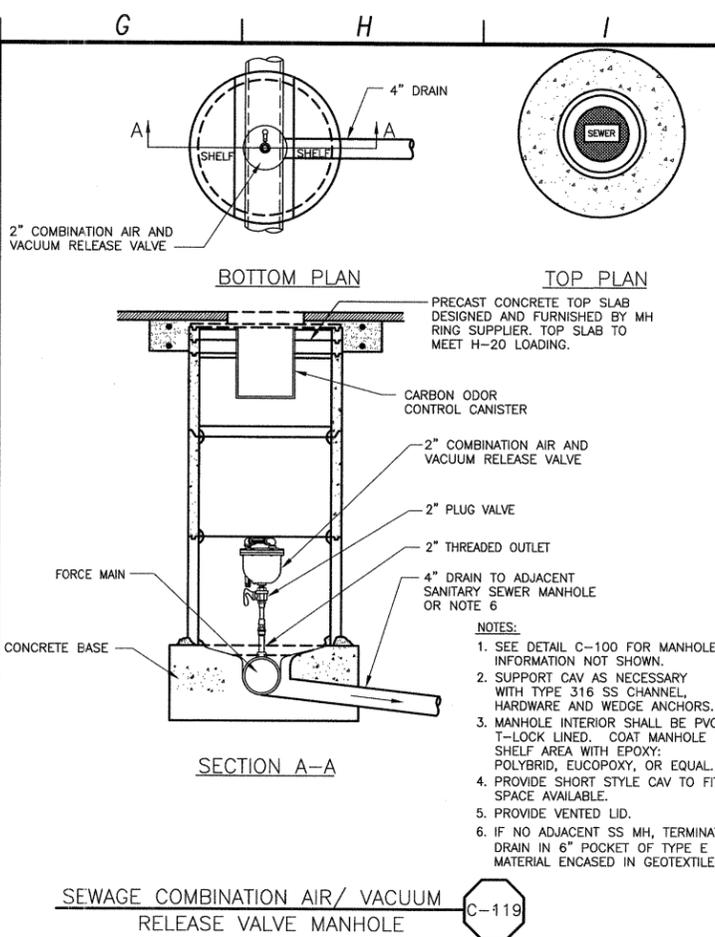
WATER AND SEWER SEPARATION NOTES C-117



**NOTES AND DEFINITIONS**

- COMPRESSION JOINT - A PUSH-ON JOINT THAT SEALS BY MEANS OF THE COMPRESSION OF A RUBBER RING OR GASKET BETWEEN THE PIPE AND A BELL OF COUPLING.
- DIMENSIONS ARE FROM THE OUTSIDE OF WATER MAIN TO OUTSIDE OF SEWER LINE OR MANHOLE.
- FUSED JOINT - THE JOINING OF SECTIONS OF PIPE USING THERMAL OR CHEMICAL BONDING PROCESSES.
- GROUND WATER - SUBSURFACE WATER FOUND IN THE SATURATION ZONE.
- HEALTH AGENCY - THE STATE DEPARTMENT OF HEALTH SERVICES. FOR THOSE WATER SYSTEMS SUPPLYING LESS THAN 200 SERVICE CONNECTIONS, THE LOCAL HEALTH OFFICER SHALL ACT FOR THE DEPARTMENT OF HEALTH SERVICES.
- HOUSE LATERAL - A SEWER PIPE CONNECTING THE BUILDING DRAIN AND THE MAIN SEWER LINE.
- LOW HEAD WATER MAIN - ANY WATER MAIN WHICH HAS A PRESSURE OF 5 PSI OR LESS AT ANY TIME AT ANY POINT IN THE MAIN.
- MECHANICAL JOINT - BOLTED JOINT
- RATED WORKING WATER PRESSURE OR PRESSURE CLASS - A PIPE CLASSIFICATION SYSTEM BASED UPON INTERNAL WORKING PRESSURE OF THE FLUID IN THE PIPE, TYPE OF PIPE MATERIAL, AND THE THICKNESS OF THE PIPE WALL.
- SLEEVE - A PROTECTIVE TUBE OF STEEL WITH A WALL THICKNESS OF NOT LESS THAN ONE-FOURTH INCH INTO WHICH A PIPE IS INSERTED.
- WATER SUPPLIER - ANY PERSON WHO OWNS OR OPERATES A PUBLIC WATER SYSTEM

WATER AND SEWER SEPARATION DIAGRAM C-118



**TABLE 1 - ROADS REQUIRING FULL DEPTH RECLAMATION**

ROAD NAME	TI	STATION LIMITS OF FULL DEPTH RESTORATION	PULVERIZATION "DRY"	PULVERIZATION "WET"	STATION LIMITS OF "WET" ROAD
BINSCARTH AVE.	6	1+25 (AT PECHO RD) 27+40 (AT BRODERSON AVE)	4"HMA 14" PCSG	4"HMA 14" PTSG	1+25 27+40
7TH STREET	7	21+20 (AT RAMONA AVE) 55+00 (AT SANTA YSABEL AVE)	4"HMA 14" PCSG	4"HMA 14" PTSG	35+50 48+10
PINE STREET	7	5+20 (AT LOS OSOS VALLEY RD) 33+00 (AT RAMONA AVE)	4"HMA 14" PCSG	4"HMA 14" PTSG	26+10 33+00
SANTA YNEZ AVE.	6,5	28+00 (AT LOST OAK DR) 33+80 (AT MOUNTAIN VIEW AVE)	3"HMA 12" PCSG		
LUPINE STREET	4,5	1+20 (AT DORIS AVE) 5+40 (AT FEARN AVE)		3"HMA 12" PTSG	1+20 5+40

**TABLE 2 - ROADS WITH FULL DEPTH RECLAMATION - GENERAL SPECIFICATION**

ROAD CATEGORY	PULVERIZATION "DRY"	PULVERIZATION "WET"
COLLECTOR STREET	4"HMA OVER 14" PCSG	4"HMA OVER 14" PTSG
MINOR STREET	3"HMA OVER 12" PCSG	3"HMA OVER 12" PTSG

TYPICAL FULL DEPTH ROAD RECLAMATION C-120A

**NOTES:**

- THE STRUCTURAL SECTION SHALL BE PER TABLE 1 FOR SPECIFIC ROADS REQUIRING FULL DEPTH RECLAMATION; TABLE 2 SHALL BE THE SPECIFICATION FOR OTHER ROADS WITHIN THE PROJECT AREA THAT RECEIVE FULL DEPTH RECLAMATION AT THE CONTRACTORS OPTION OR AS DIRECTED BY ENGINEER.
- TYPICAL STRUCTURAL ROAD SECTION SHALL BE:  
 HOT MIX ASPHALT (HMA) PER TABLE TO 95% RELATIVE COMPACTION, OVER PULVERIZED COMPACTED SUBGRADE OR PULVERIZED TREATED AND COMPACTED SUBGRADE TO 95% RELATIVE COMPACTION.
- CUT AND FILL SLOPE SHALL NOT EXCEED 2 HORIZONTAL TO 1 VERTICAL OR 3H:1V IN SAND.
- THE CONTRACTOR SHALL ACCOMMODATE FOR ROADSIDE DRAINAGE SUCH THAT IT DOES NOT ERODE THE ROAD SHOULDER. THE SIDE SLOPE OF ANY DRAINAGE SWALE ADJACENT TO THE ROADWAY SHALL NOT EXCEED 4H:1V.
- LIMITS OF PULVERIZATION SHALL EXTEND TO THE EDGE OF EXISTING ROAD PAVEMENT. PERFORM MINOR GRADING ON SHOULDERS TO ALLOW FOR DRAINAGE PER THE SECTION DETAILS OR AS DIRECTED BY ENGINEER.
- WIDTH VARIES UP TO 4'

ARTERIAL ROADS	COLLECTOR ROADS	MINOR ROADS
LOS OSOS VALLEY ROAD SOUTH BAY BOULEVARD	PECHO VALLEY ROAD SANTA YSABEL AVENUE RAMONA AVENUE NIPOMO AVENUE NINTH STREET (BTW LOS OSOS VALLEY RD & RAMONA AVE) PINE AVENUE SEVENTH STREET ELEVENTH STREET EL MORO AVENUE (BTW 2ND ST & 12TH ST) SECOND STREET (BTW EL MORO AVENUE & SANTA YSABEL AVE) BINSCARTH ROAD PECHO ROAD BAYVIEW HEIGHTS DRIVE	ALL OTHER ROADS WITHIN PROJECT AREA

**NOTES:**

- MINIMUM ASPHALT CONCRETE THICKNESS SHALL BE 3".
- MATCH EXISTING ASPHALT CONCRETE AND AGGREGATE BASE THICKNESS IF THICKER.
- ASPHALT CONCRETE SHALL BE PER SPECIFICATIONS.
- GRAVEL AND BASE ROCK PAVED ROADS SHALL BE RESTORED TO MATCH EXISTING SECTION, IF FLOWABLE FILL IS USED, TERMINATE FLOWABLE FILL 6" BELOW GRADE AND RESTORE TO MATCH EXISTING.
- PROVIDE AND MAINTAIN TEMPORARY PAVEMENT UNTIL PERMANENT PAVEMENT IS INSTALLED.
- SEE DETAIL C-120A REGARDING ROADS REQUIRING FULL DEPTH RECLAMATION.

TRENCH PATCH PAVEMENT RESTORATION STRUCTURAL SECTION C-120

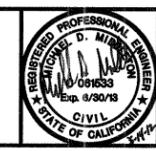
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: BJC  
 DRAWN BY: JAW  
 CHECKED BY: MDM  
 DATE: MARCH, 2012

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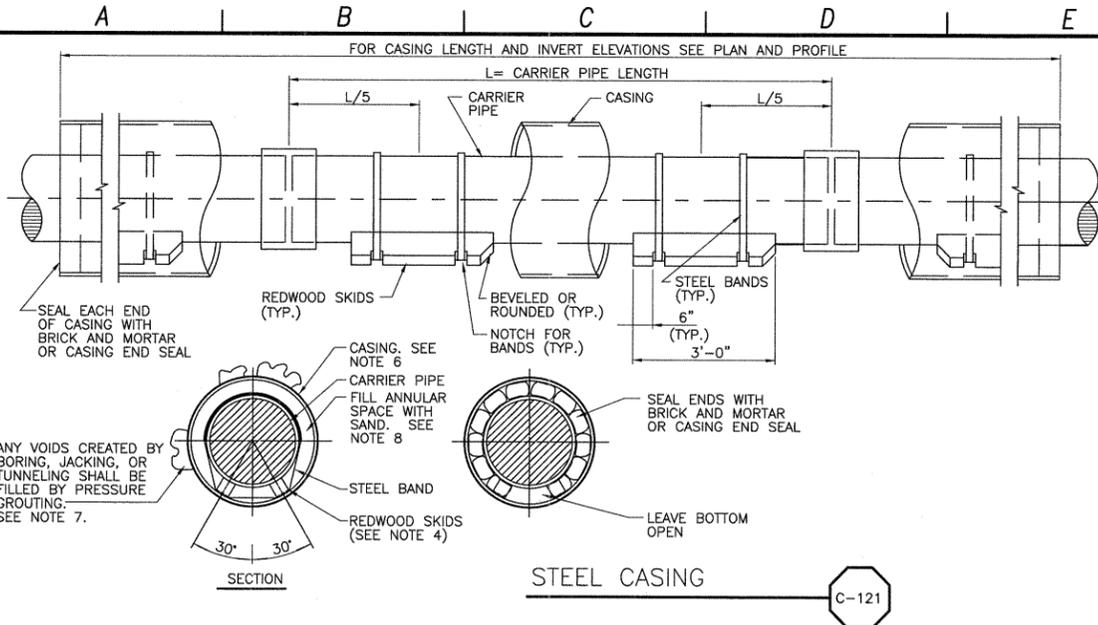


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**GENERAL CIVIL STANDARD CIVIL DETAILS - 3**

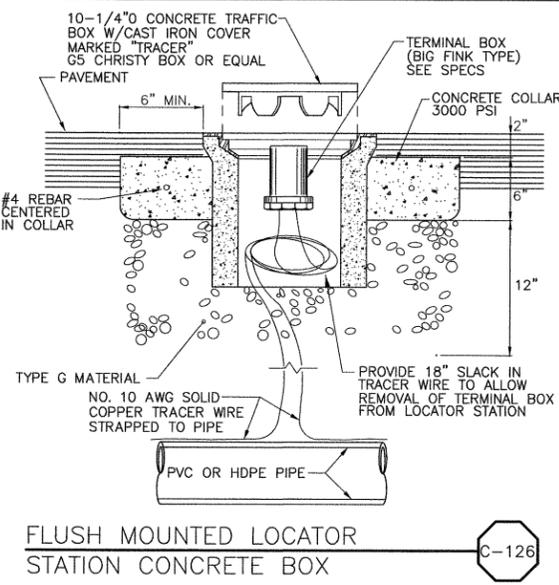
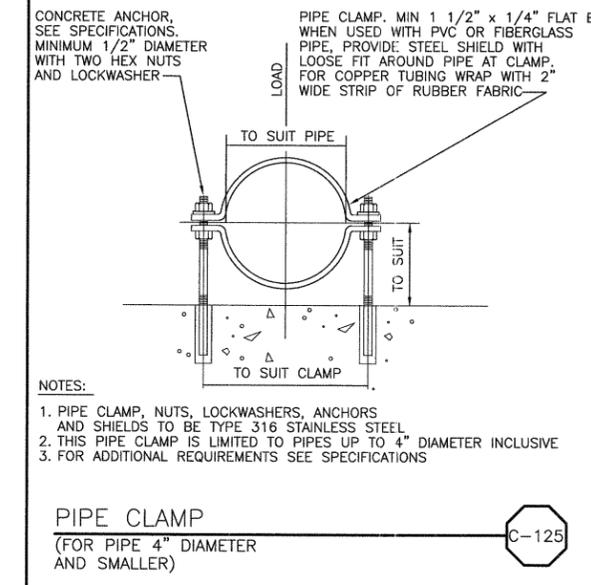
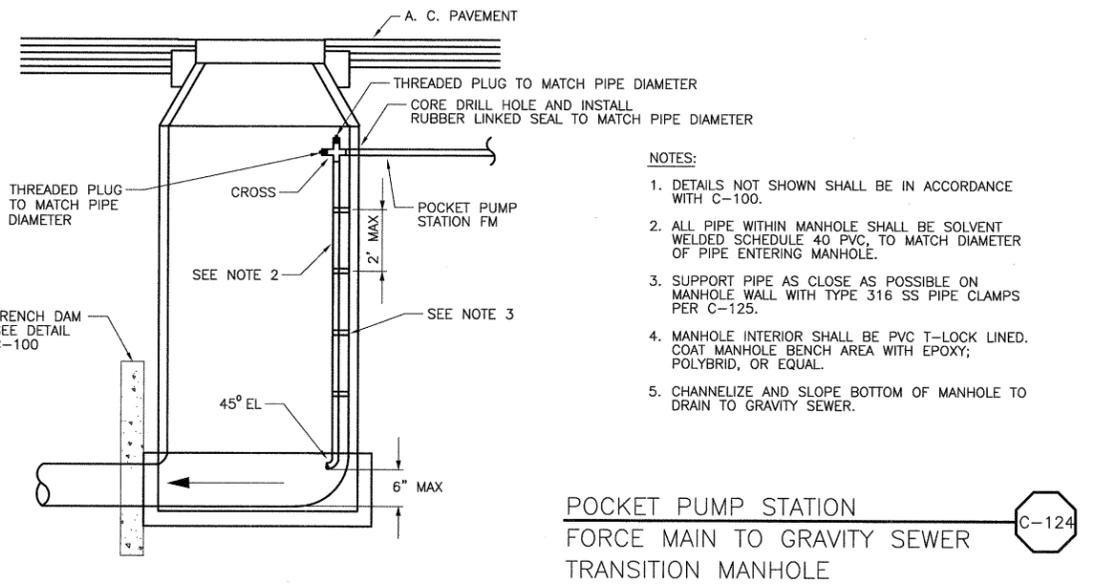
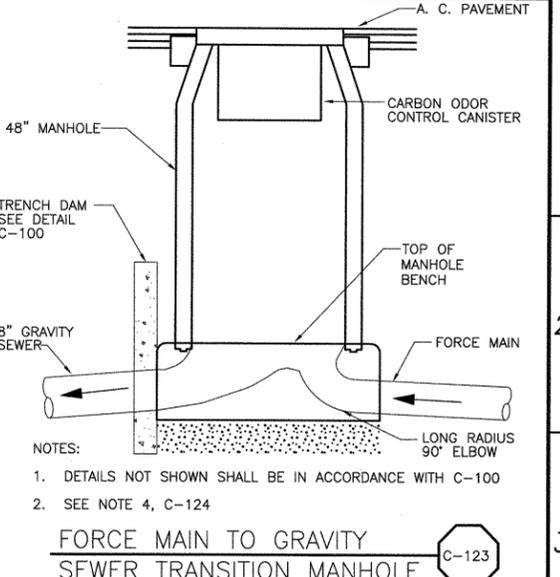
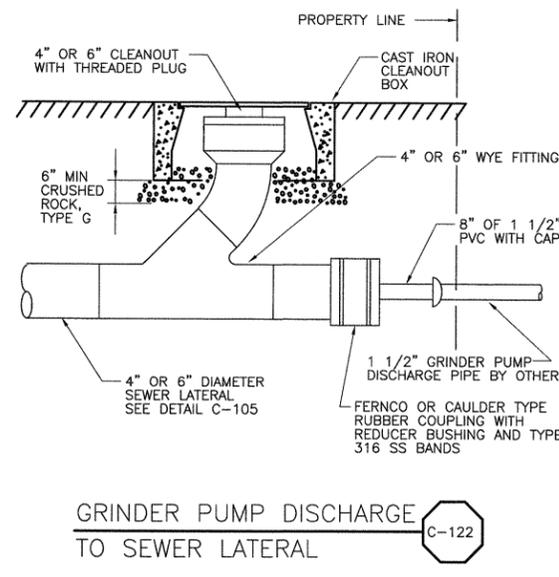
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 FILE NAME: D-GC-062  
 SHEET NO. D-GC-062

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- NOTES:
- CASING SHALL BE SMOOTH PIPE.
  - CARRIER PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
  - CARRIER PIPE SHALL BE TESTED BEFORE SEALING ENDS OF PIPE.
  - SKIDS SHALL BE GREASED TO FACILITATE CARRIER PIPE INSTALLATION.
  - SEE SPECIFICATION SECTION 02151 BORING AND JACKING FOR ADDITIONAL REQUIREMENTS.
  - CASING I.D. SHALL BE PIPE BELL O.D. PLUS 12" MIN, BUT NOT LESS THAN 20".
  - PROVIDE THREADED GROUT PORTS IN CASING TO ENABLE PRESSURE GROUTING. SEAL WITH THREADED CAST IRON OR STEEL PLUGS UPON COMPLETION.
  - BLOCK CARRIER PIPE TO PREVENT PIPE FLOTATION OR DISTURBANCE DURING SAND BACKFILLING.
  - IF TRENCHLESS SECTION INCLUDES CONDUITS, ADD 12" TO SUM OF CARRIER PIPE BELL OD AND LARGEST CONDUIT BELL OD TO ESTABLISH CASING I.D.

CASING SIZE	CASING WALL THICKNESS (t)	SKID SIZE
20", 22"	1/2" MIN	4" x 4"
24"	1/2" MIN	4" x 4"
26"	1/2" MIN	4" x 4"
30"	1/2" MIN	4" x 4"
34"	1/2" MIN	4" x 4"
40"	5/8" MIN	6" x 6"
44"	5/8" MIN	6" x 6"



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: BJC  
 DRAWN BY: JAW  
 CHECKED BY: MDM  
 DATE: MARCH, 2012

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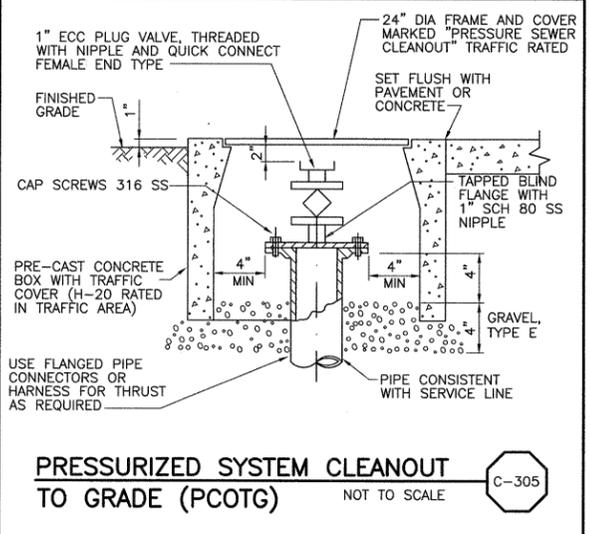
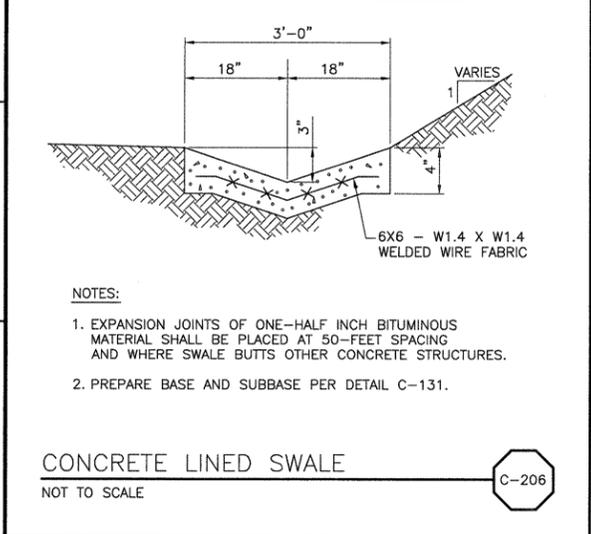
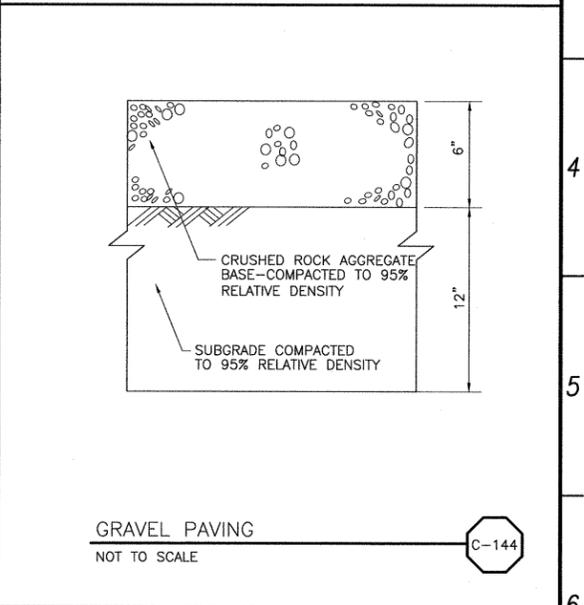
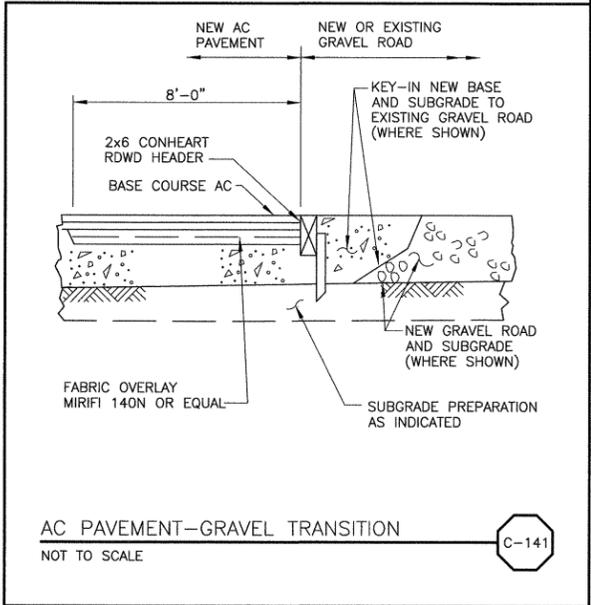
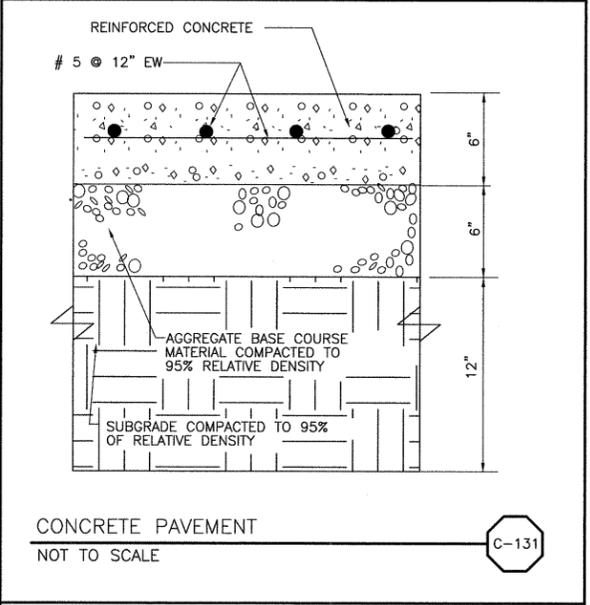
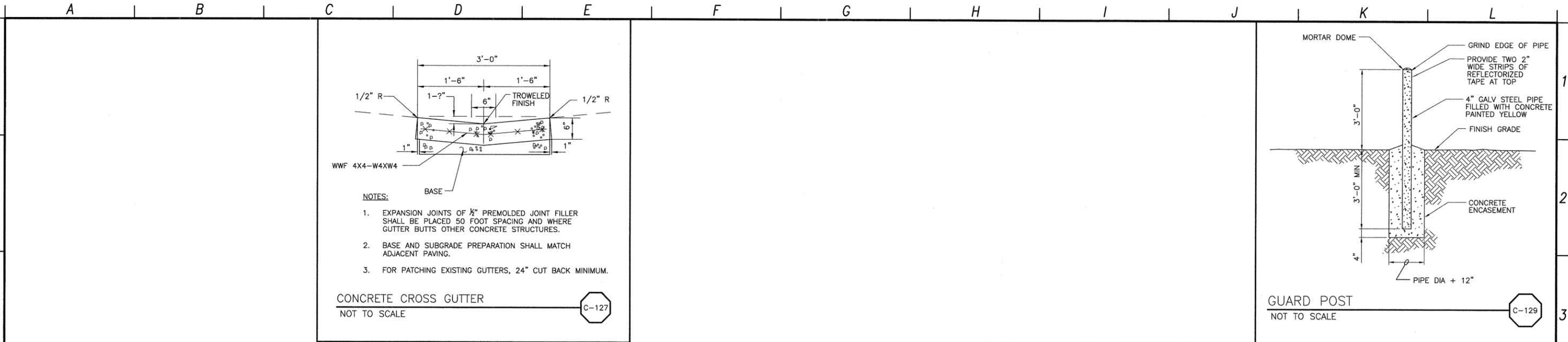
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 STATE OF CALIFORNIA  
 CIVIL  
 Exp. 8/30/18

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**GENERAL CIVIL STANDARD CIVIL DETAILS - 4**

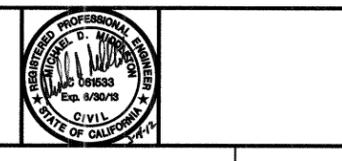
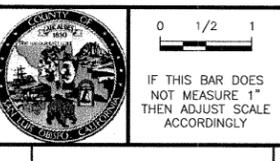
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 FILE NAME: D-GC-063  
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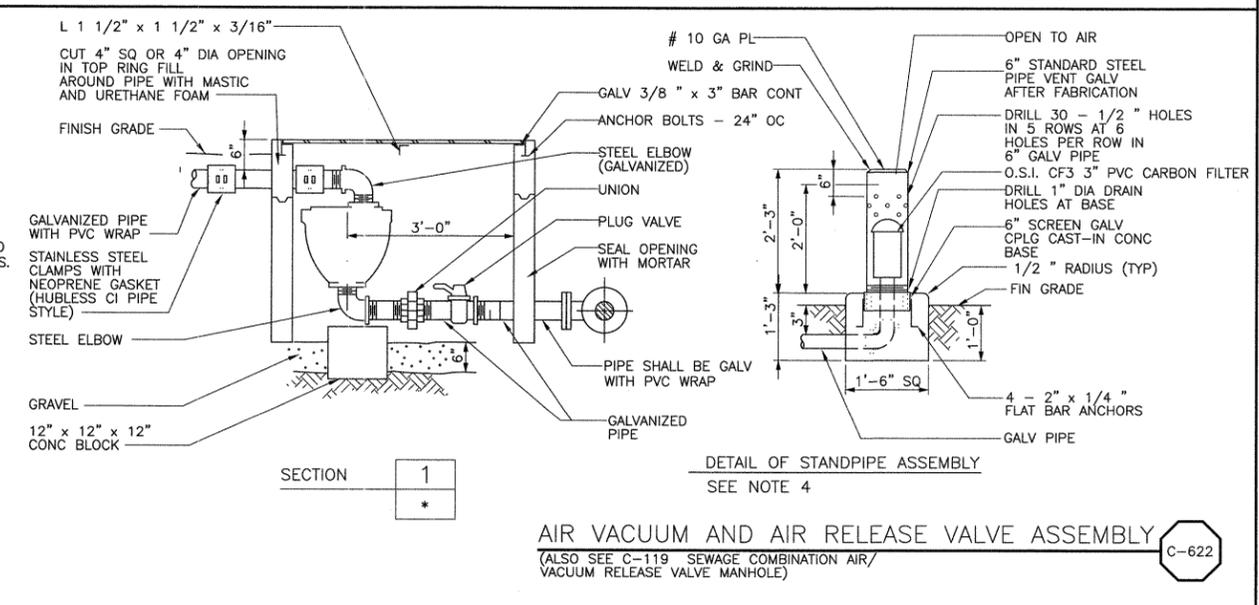
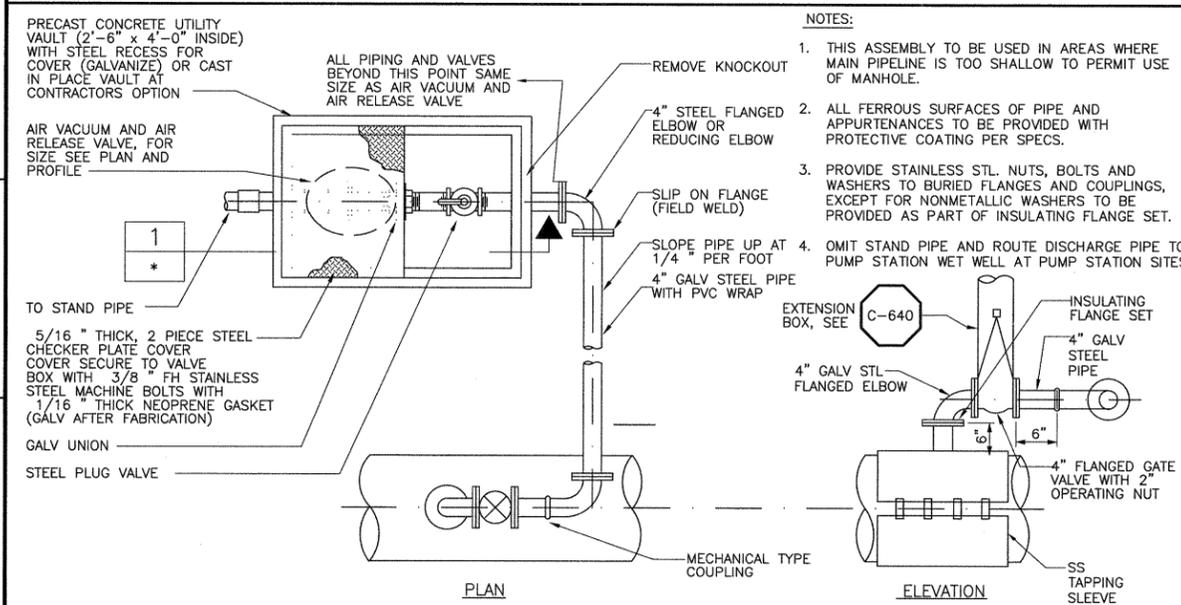
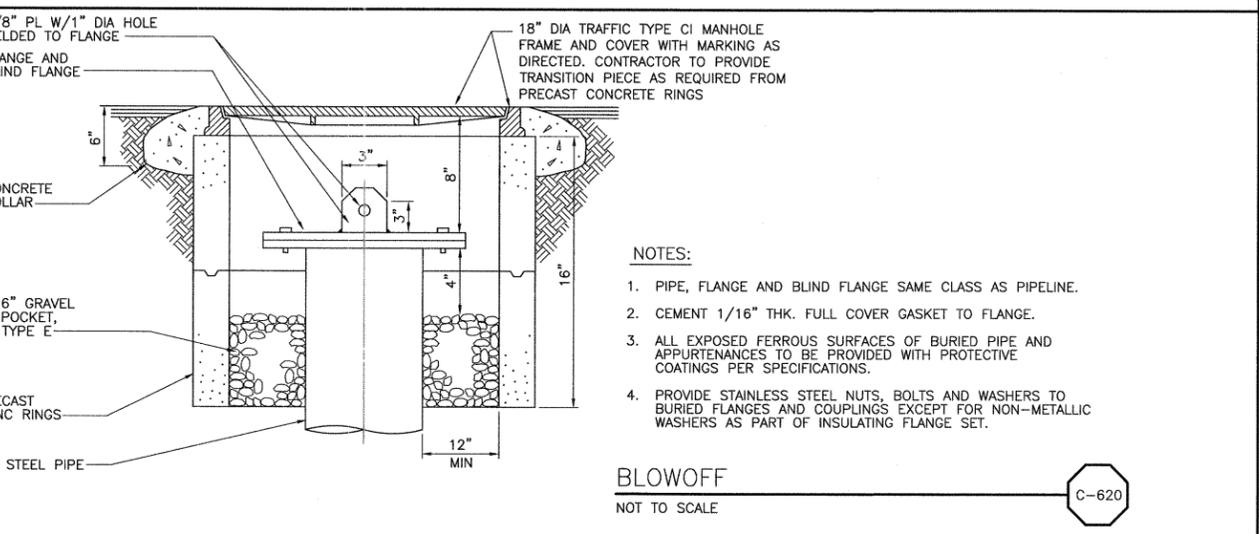
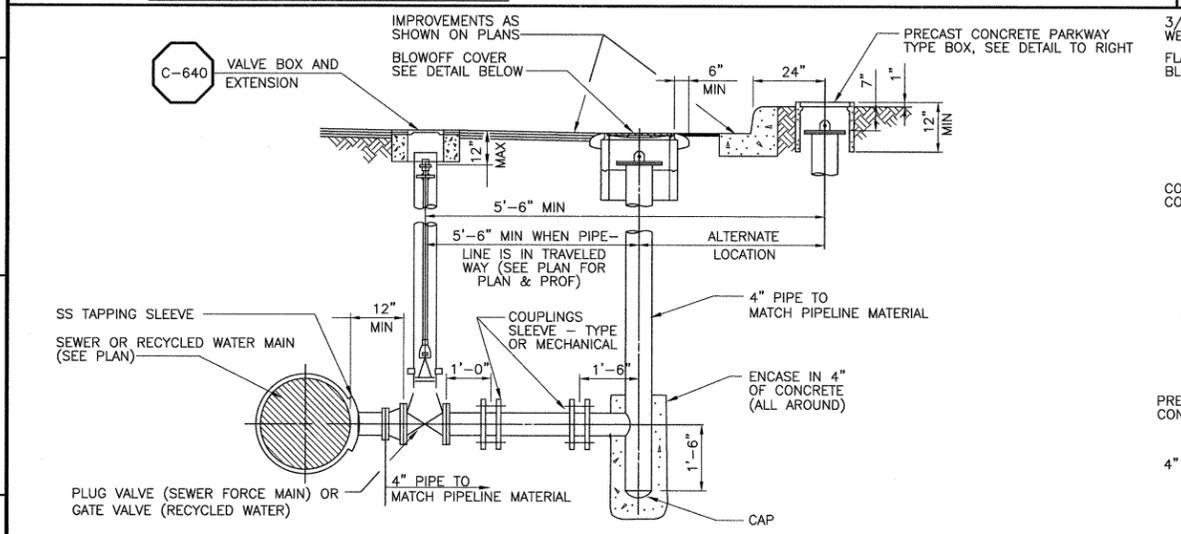
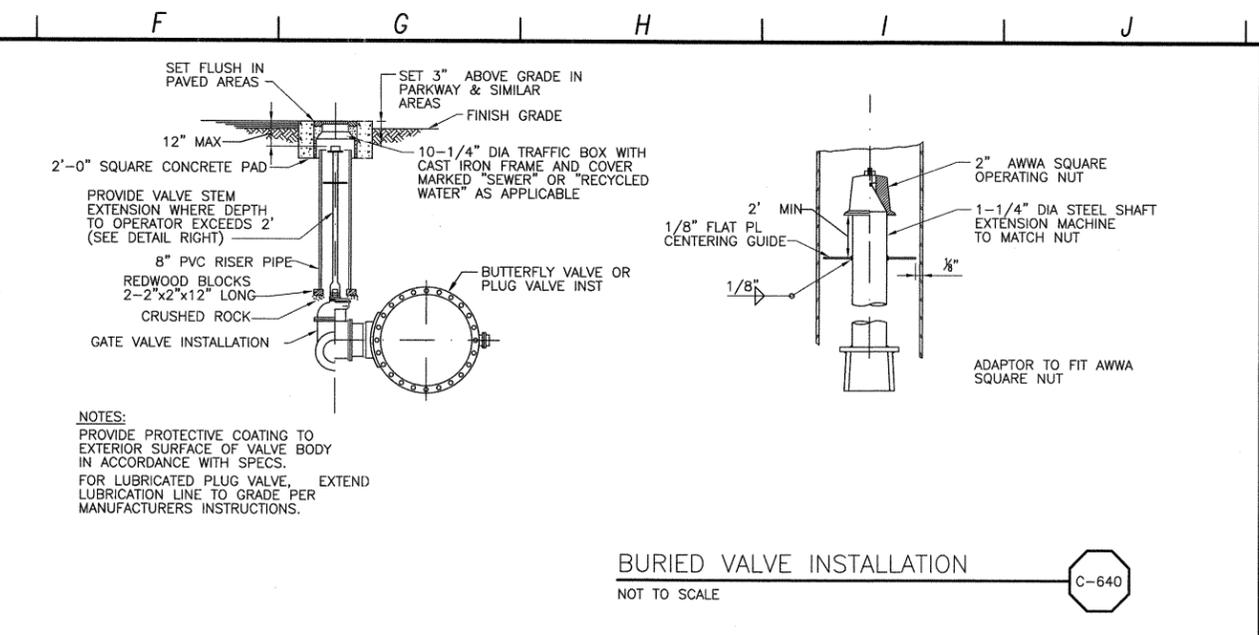
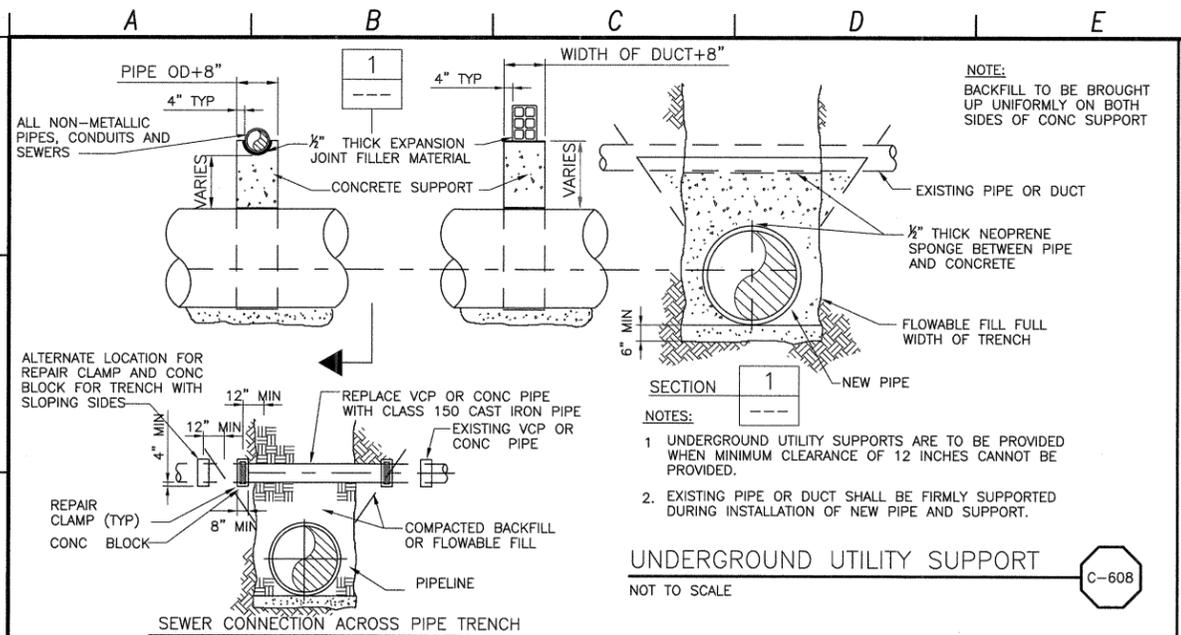
DESIGNED BY: BJC  
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 CHECKED BY: MDM  
 DATE: MARCH, 2012



LOS OSOS WASTEWATER COLLECTION SYSTEM  
**GENERAL CIVIL**  
**STANDARD CIVIL DETAILS - 5**

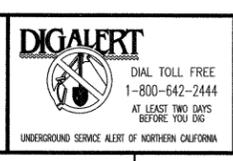
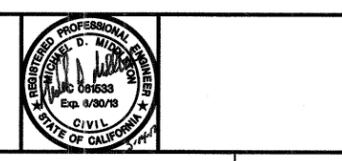
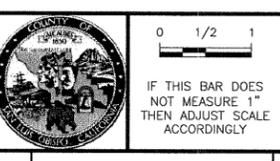
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 CHECKED BY: MDM  
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LOS OSOS WASTEWATER COLLECTION SYSTEM  
**GENERAL CIVIL STANDARD CIVIL DETAILS - 6**  
 PROJECT No. 42502-83120  
 FILE NAME: D-GC-065  
 SHEET NO. D-GC-065

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**LEGEND:**  
 [Square Symbol] PUMP STATIONS  
 [Circle Symbol] POCKET PUMP STATIONS  
 PS = PUMP STATIONS  
 PPS = POCKET PUMP STATIONS

SCALE:  
 HORZ: 1"=300'  
 VERT: 1"=300'

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RLA  
 DRAWN BY: MAR  
 CHECKED BY: KS  
 DATE: MARCH 2012

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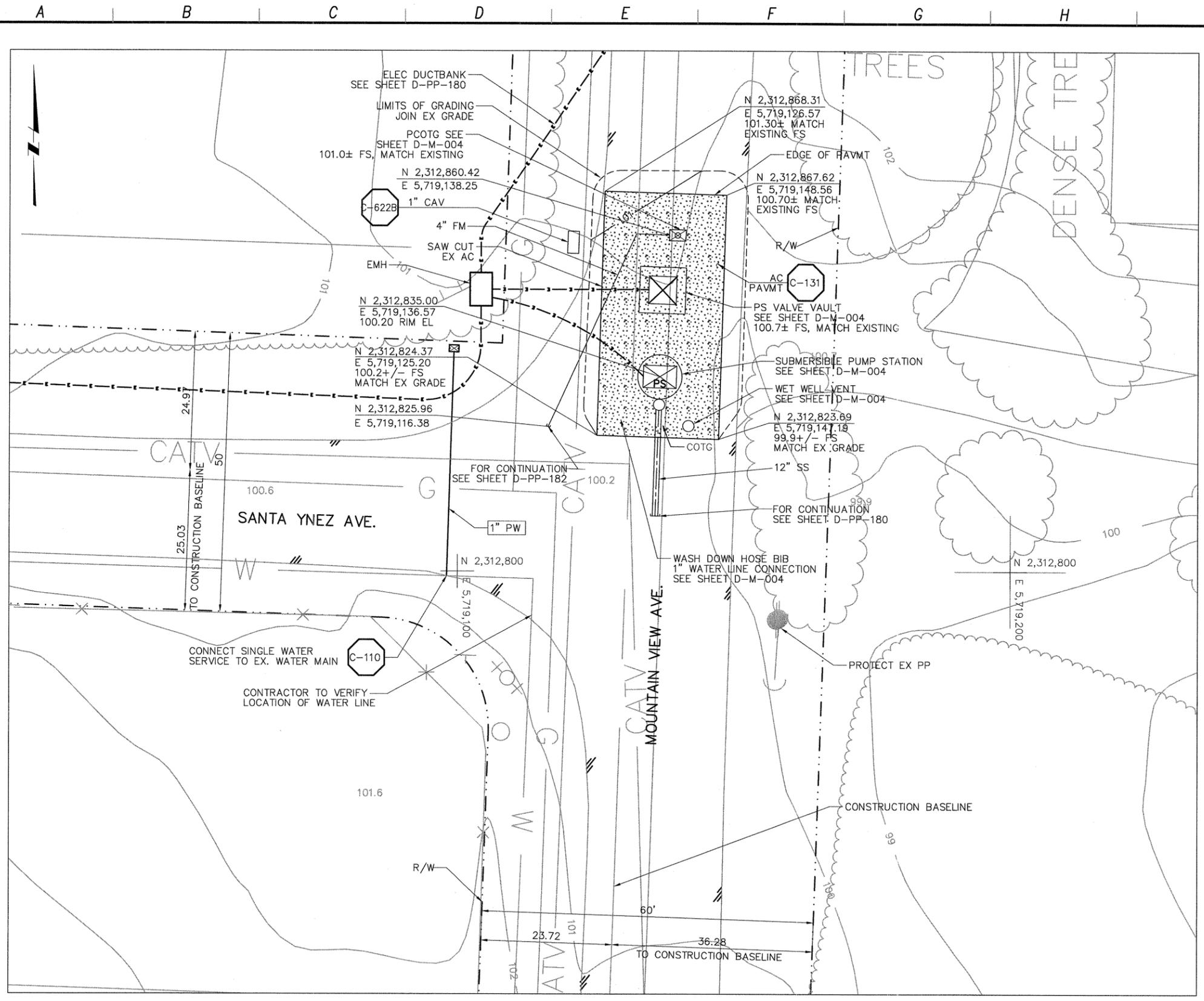
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LOS OSOS WASTEWATER COLLECTION SYSTEM  
**CIVIL AREA D KEY PLAN**  
 PROJECT NO. 42502-83120  
 FILE NAME: D-C-401  
 SHEET NO. **D-C-401**

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- NOTES:
1. LIDS AND VAULTS TO BE TRAFFIC RATED FOR H-20 LOADING.
  2. COORDINATE ELECTRICAL DUCTBANK DEPTH AND LOCATION BEFORE INSTALLATION OF PROCESS PIPING. SEE SHEET D-PP-180.
  3. SEE SHEET D-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUIT AND MH.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: MPH  
 DRAWN BY: JAW  
 CHECKED BY: CCA  
 DATE: MARCH 2012

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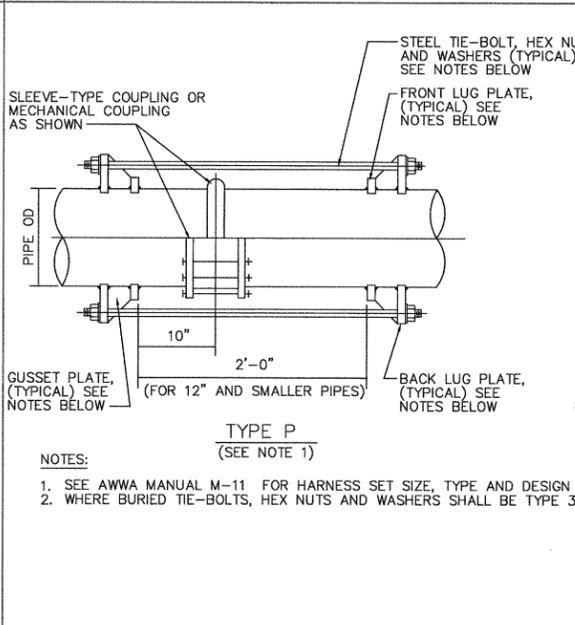
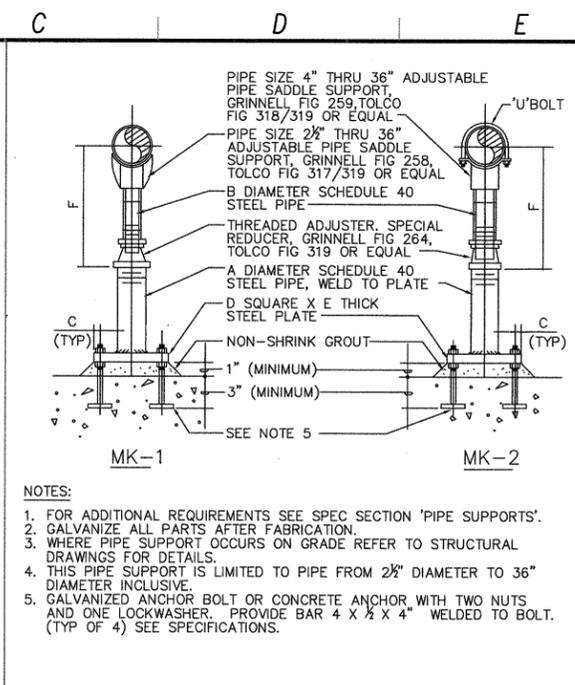
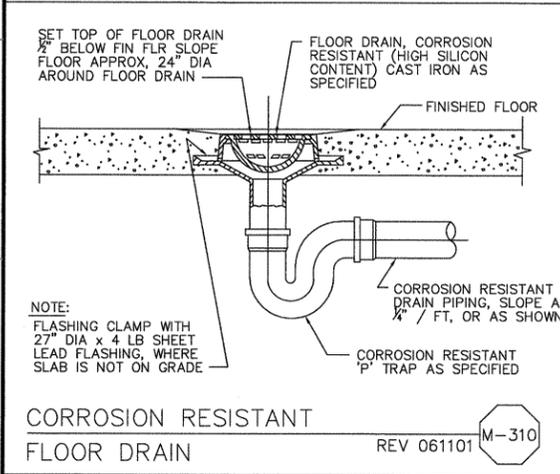
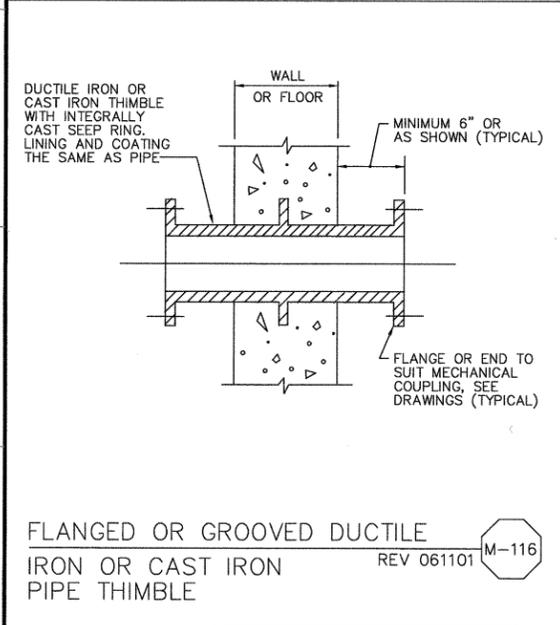
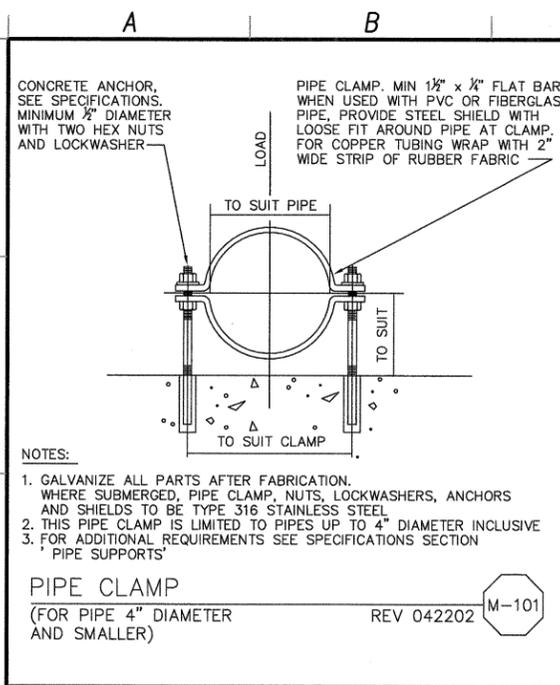
**DIGALERT**  
 DIAL TOLL FREE 1-800-642-2444  
 AT LEAST TWO DAYS BEFORE YOU DIG  
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM  
**CIVIL MOUNTAIN VIEW PS SITE PLAN**

PROJECT NO. 42502-83120  
 FILE NAME: D-C-402  
 SHEET NO.  
**D-C-402**



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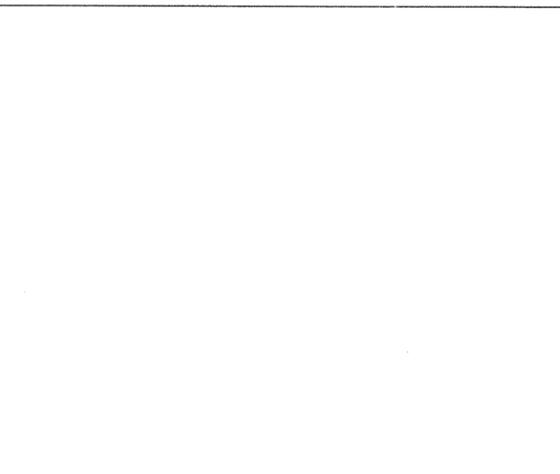
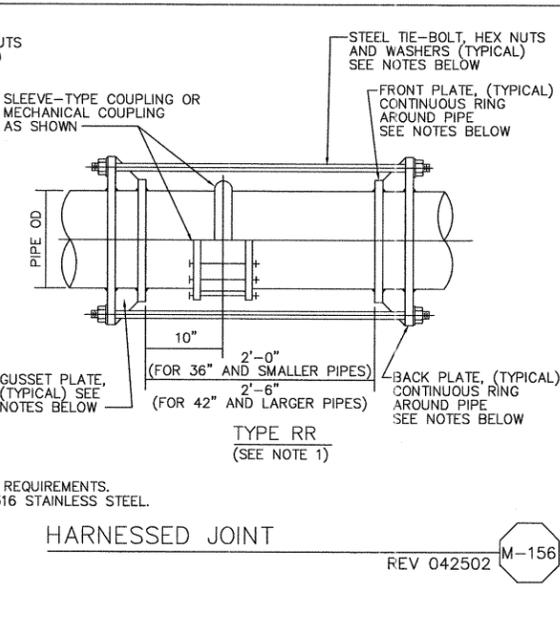
DIMENSIONS IN INCHES

NOMINAL PIPE SIZE	A	B	C	D	E	F (APPROX)	
						(MINIMUM)	(MAXIMUM)
2 1/2	2	1 1/2	1	6	3/8	7	11 1/2
3	2	1 1/2	1	6	3/8	7 1/8	11 3/8
3 1/2	2	1 1/2	1	6	3/8	7 1/8	12 1/8
4	3	*2 1/2/3	1 1/2	7 1/2	1/2	10 1/4	14 1/4
6	3	*2 1/2/3	1 1/2	7 1/2	1/2	11 3/8	16 3/8
8	3	*2 1/2/3	1 1/2	7 1/2	1/2	13 3/8	18 3/8
10	3	*2 1/2/3	1 1/2	7 1/2	1/2	14 3/8	19 3/8
12	3	*2 1/2/3	1 1/2	7 1/2	1/2	15 3/8	20 3/8
14	4	3	1 1/2	9	3/4	18 3/8	23 3/8
16	4	3	1 1/2	9	3/4	19 3/8	24 3/8
18	6	4	1 1/2	11	3/4	22 3/8	26 3/8
20	6	4	1 1/2	11	3/4	23 3/8	27 3/8
24	6	4	1 1/2	11	3/4	26 3/8	31
30	6	4	1 1/2	11	3/4	29 3/8	34 3/8
32	6	4	1 1/2	11	3/4	30 3/8	35 3/8
36	6	4	1 1/2	11	3/4	32 3/8	37 3/8

\* SEE MANUFACTURER

ADJUSTABLE PIPE SUPPORT WITH OR WITHOUT 'U' BOLT

REV 011402



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: ALP  
 DRAWN BY: MAR  
 CHECKED BY: SBM  
 DATE: MARCH 2012

**CDM Smith**  
 2295 Gateway Oaks Drive, Suite 240  
 Sacramento, CA 95833  
 Tel: (916) 567-9900

0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY

REGISTERED PROFESSIONAL ENGINEER  
 JAMES CURTIN  
 C 051414  
 Exp. 06/30/19  
 STATE OF CALIFORNIA

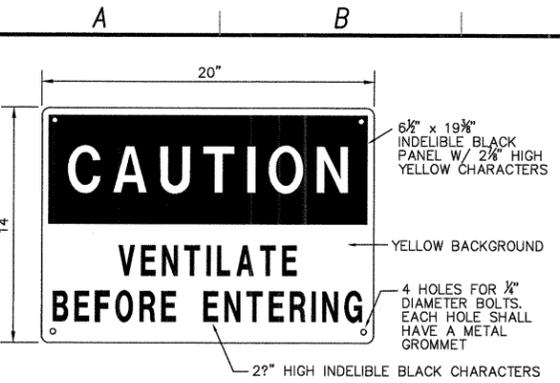
**DIGALERT**  
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LOS OSOS WASTEWATER COLLECTION SYSTEM

MECHANICAL STANDARD DETAILS - 1

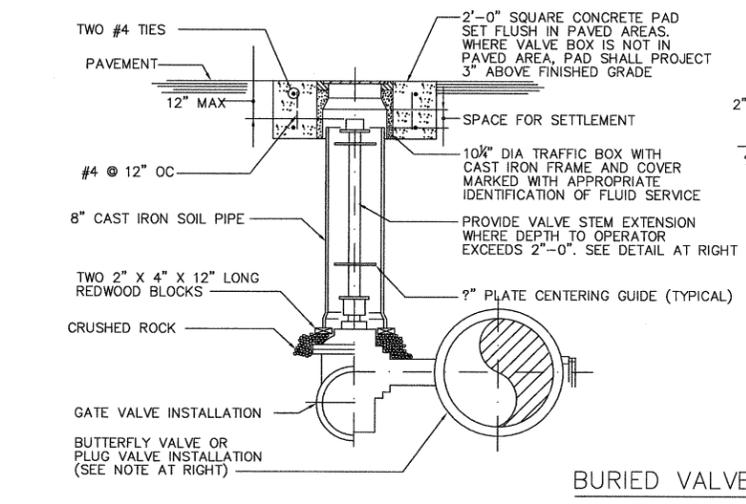
PROJECT NO. 42502-83120  
 FILE NAME: D-M-001  
 SHEET NO. D-M-001

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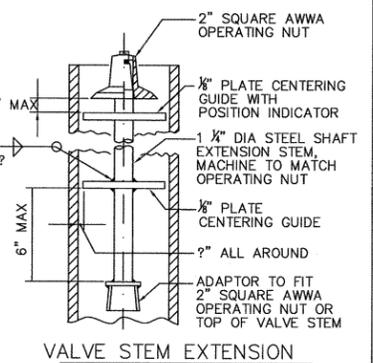


**NOTES:**  
 1. WARNING SIGN TO BE ABLE TO BEND TO A 9" RADIUS.  
 2. MATERIAL TO BE 0.060" THICK BUTYRATE OR EQUAL.  
 3. SIGN TO BE ATTACHED IN CONSPICUOUS LOCATION AT ENTRY OF STRUCTURE.

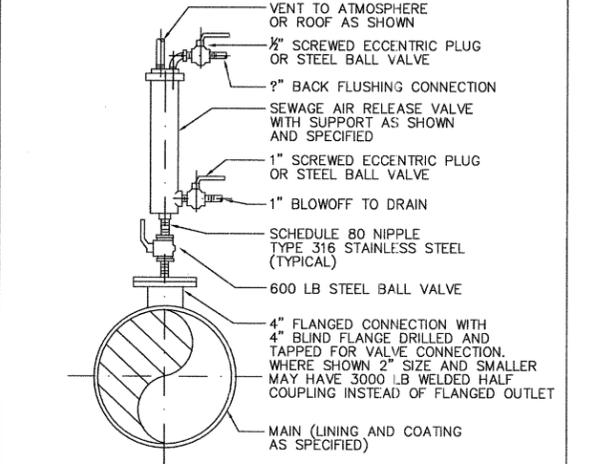
VENTILATION WARNING SIGN  
 REV 062801 M-509



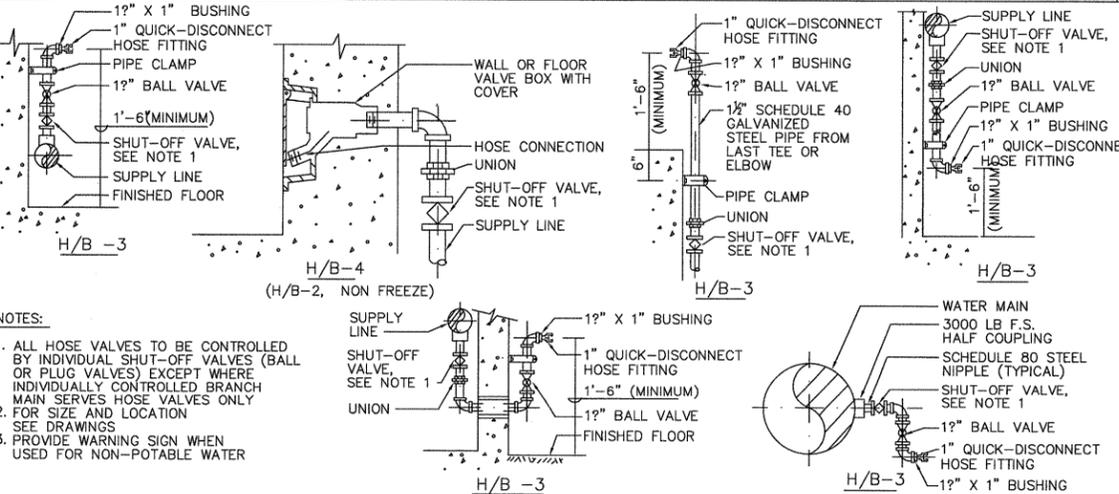
BURIED VALVE  
 REV 061801 M-803



**NOTE:**  
 FOR LUBRICATED PLUG VALVE, EXTEND LUBRICATION LINE TO GRADE PER MANUFACTURERS INSTRUCTIONS

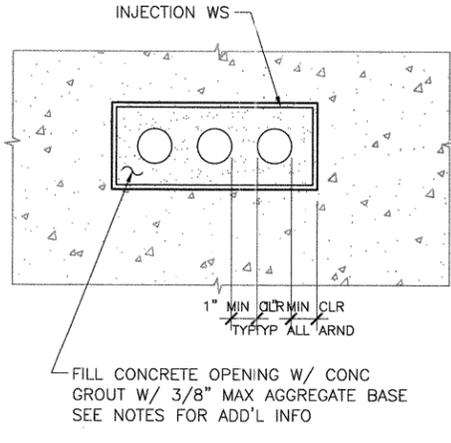


SEWAGE AIR RELEASE VALVE  
 REV 061101 M-806



**NOTES:**  
 1. ALL HOSE VALVES TO BE CONTROLLED BY INDIVIDUAL SHUT-OFF VALVES (BALL OR PLUG VALVES) EXCEPT WHERE INDIVIDUALLY CONTROLLED BRANCH MAIN SERVES HOSE VALVES ONLY SEE DRAWINGS  
 2. FOR SIZE AND LOCATION  
 3. PROVIDE WARNING SIGN WHEN USED FOR NON-POTABLE WATER

HOSE VALVES WITH QUICK-DISCONNECT  
 REV 062001 M-839



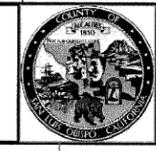
**NOTES:**  
 1. PROVIDE INJECTION TUBE WATERSTOP AROUND PERIMETER OF OPENING.  
 2. PROVIDE (2) 3/8" BEADS OF DENEFF SWELL SEAL WA OR APPROVED EQUAL AROUND EACH PIPE PENETRATION.  
 3. INJECT WATERSTOP IN ACCORDANCE WITH THE SPEC SECTION 03250.  
 4. COORDINATE SIZE, QUANTITY AND LOCATION OF CONDUITS WITH ELECTRICAL DRAWINGS.

ELECTRICAL CONDUIT PENETRATION  
 M-112

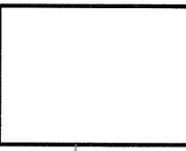
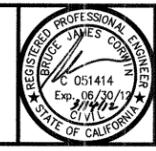
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: ALP  
 DRAWN BY: MAR  
 CHECKED BY: SBM  
 DATE: MARCH 2012

**CDM Smith**  
 2295 Gateway Oaks Drive, Suite 240  
 Sacramento, CA 95833  
 Tel: (916) 567-9900



0 1/2 1  
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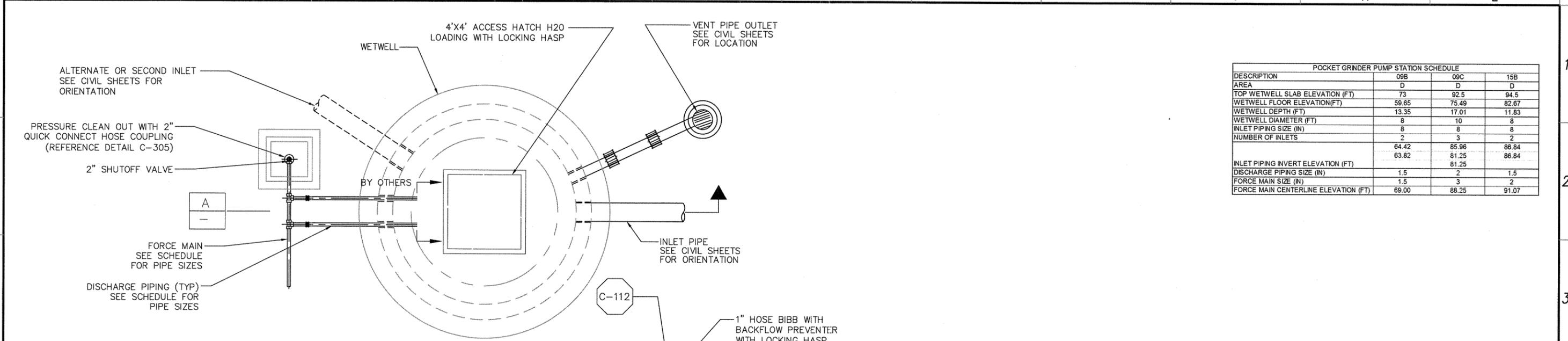


LOS OSOS WASTEWATER COLLECTION SYSTEM  
 MECHANICAL STANDARD DETAILS - 2

PROJECT NO. 42502-83120  
 FILE NAME: D-M-002  
 SHEET NO.  
**D-M-002**

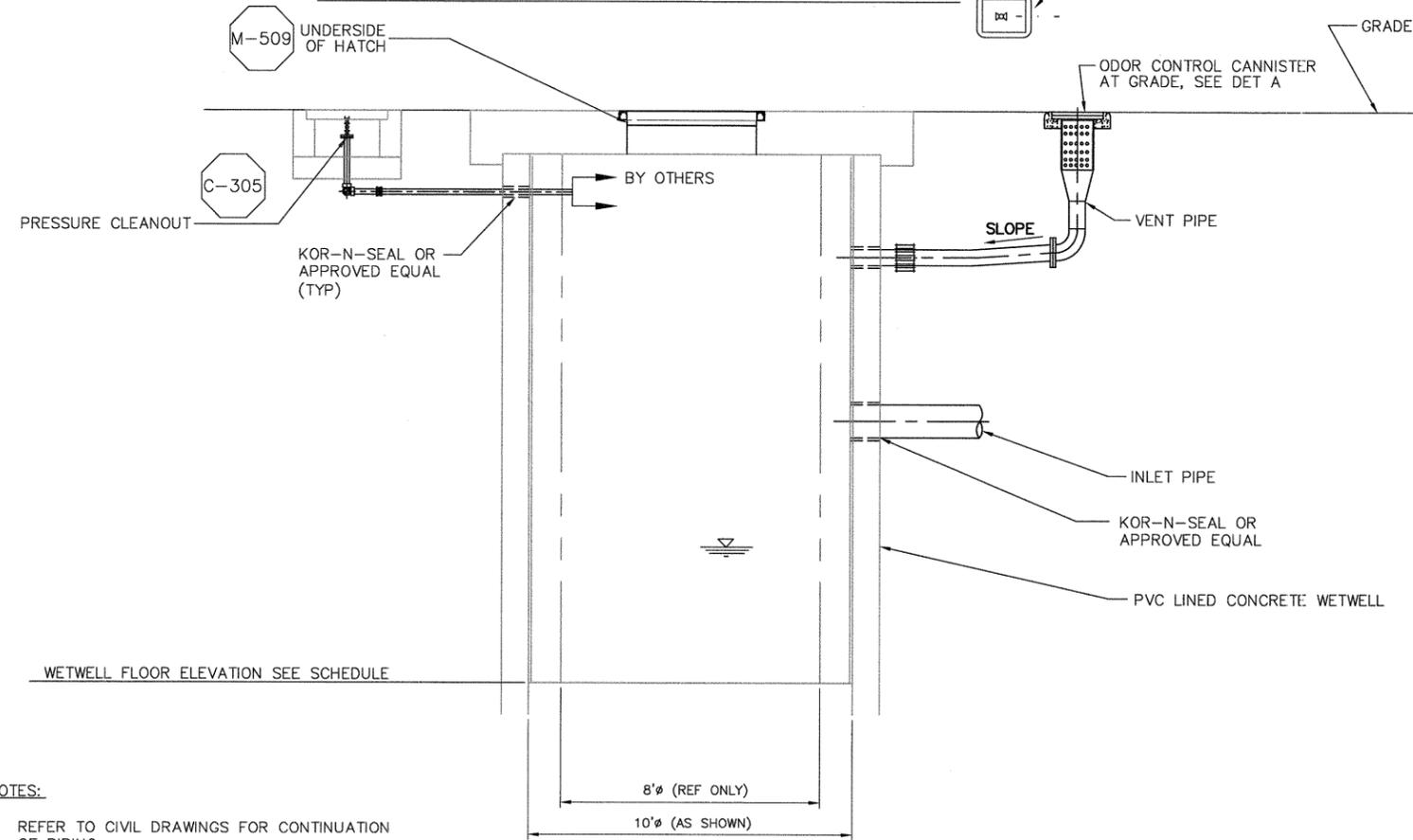
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A B C D E F G H I J K L



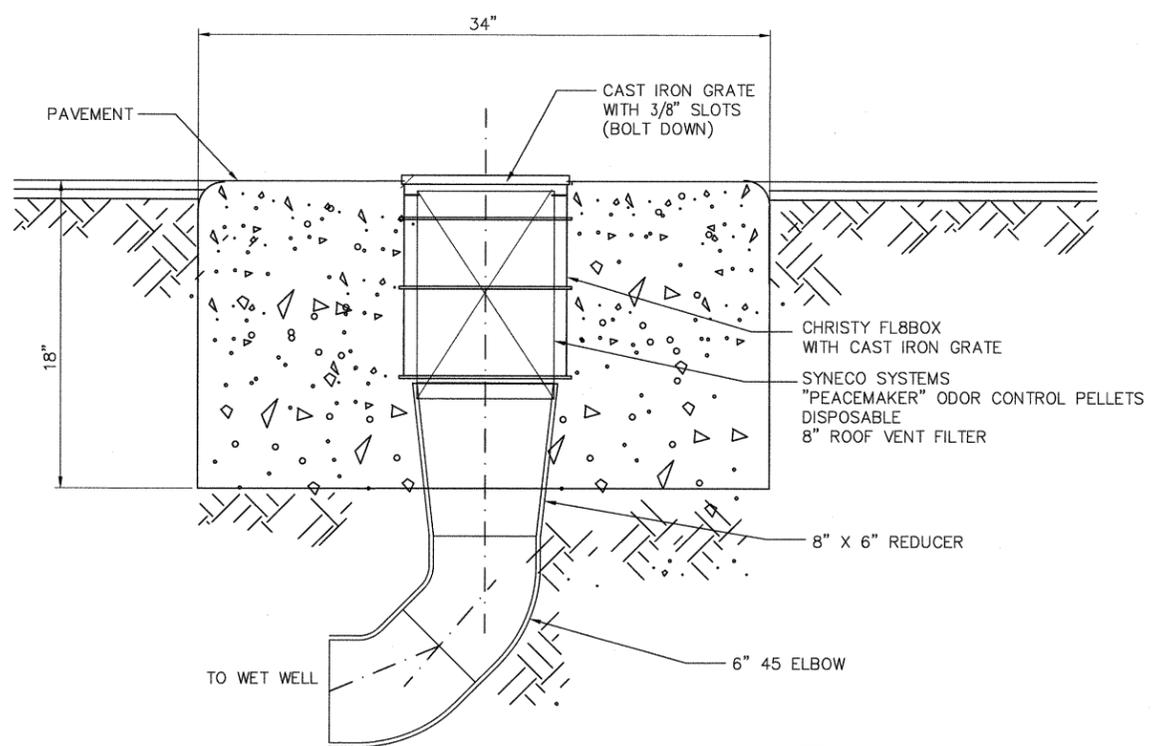
POCKET GRINDER PUMP STATION SCHEDULE			
DESCRIPTION	09B	09C	15B
AREA	D	D	D
TOP WETWELL SLAB ELEVATION (FT)	73	92.5	94.5
WETWELL FLOOR ELEVATION (FT)	59.65	75.49	82.67
WETWELL DEPTH (FT)	13.35	17.01	11.83
WETWELL DIAMETER (FT)	8	10	8
INLET PIPING SIZE (IN)	8	8	8
NUMBER OF INLETS	2	3	2
INLET PIPING INVERT ELEVATION (FT)	64.42	85.96	86.84
DISCHARGE PIPING SIZE (IN)	1.5	2	1.5
FORCE MAIN SIZE (IN)	1.5	3	2
FORCE MAIN CENTERLINE ELEVATION (FT)	69.00	88.25	91.07

TYPICAL POCKET PUMP STATION PLAN



SECTION A  
POCKET PUMP STATION

- NOTES:
- REFER TO CIVIL DRAWINGS FOR CONTINUATION OF PIPING.
  - CONTRACTOR TO VERIFY INLET PIPING CONDITIONS WITH COLLECTION SYSTEM PIPING.
  - CONTRACTOR TO VERIFY INLET PIPING AND WETWELL ELEVATION CONDITIONS.



ODOR CONTROL CANNISTER DETAIL

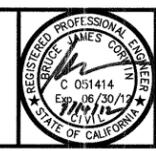
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: \_\_\_\_\_  
 DRAWN BY: JAW  
 CHECKED BY: \_\_\_\_\_  
 DATE: MARCH 2012

**CDM Smith**  
 2295 Gateway Oaks Drive, Suite 240  
 Sacramento, CA 95833  
 Tel: (916) 567-9900



0 1/2 1  
 IF THIS BAR DOES NOT MEASURE 1\"/>



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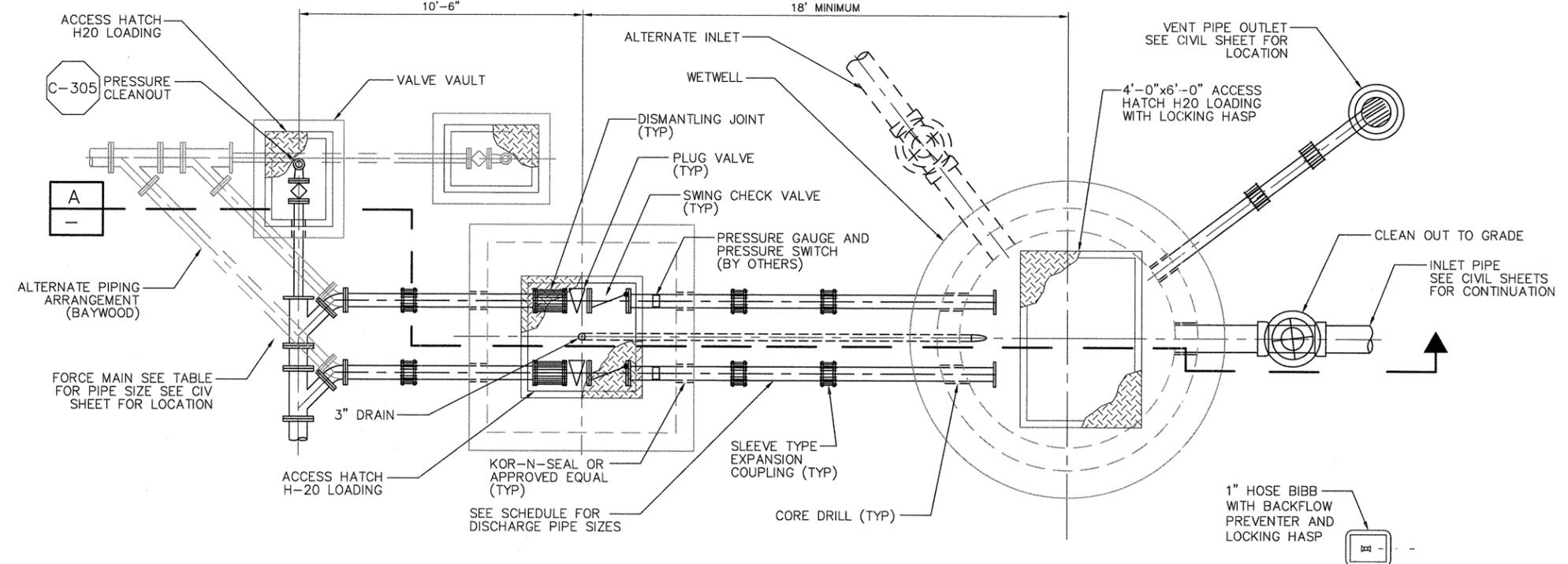
LOS OSOS WASTEWATER COLLECTION SYSTEM  
**MECHANICAL POCKET PUMP STATIONS PLAN & SECTIONS**

PROJECT NO. 42502-83120  
 FILE NAME: D-M-003  
 SHEET NO.  
**D-M-003**

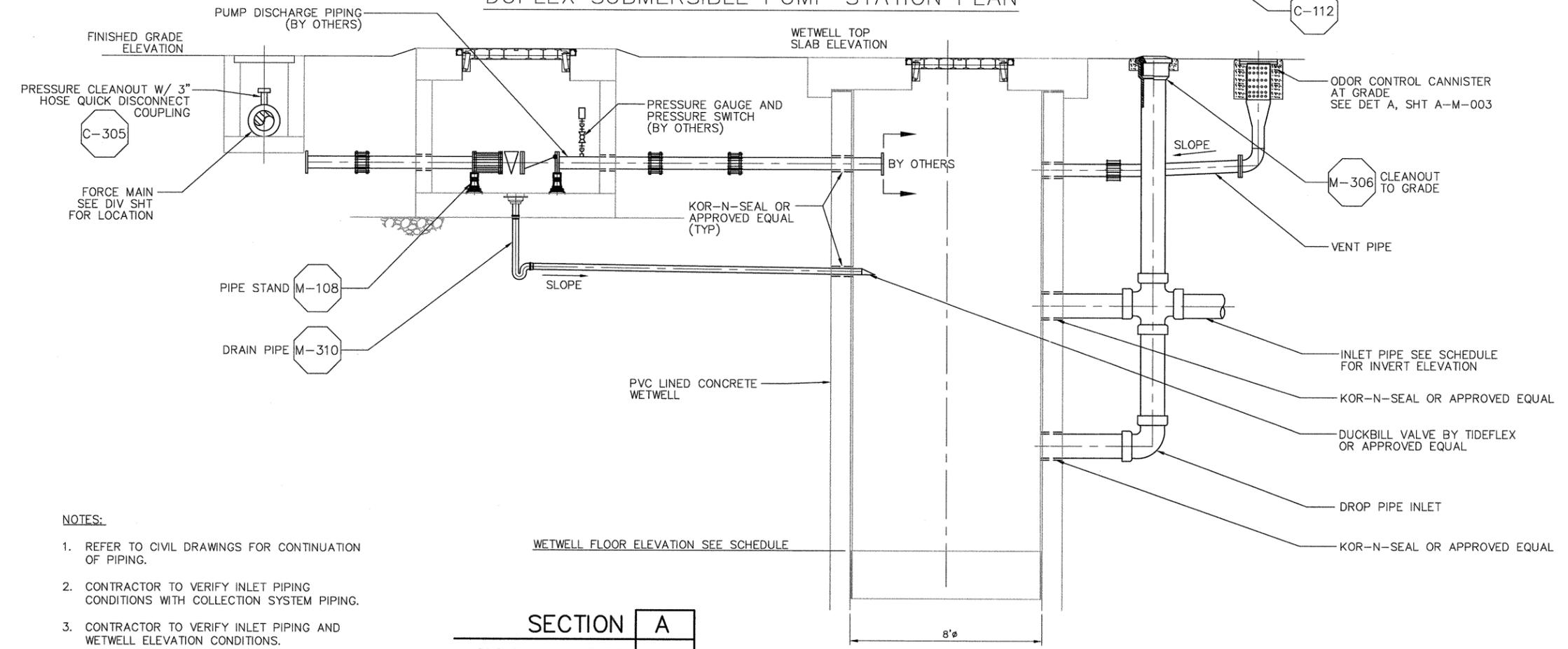
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A B C D E F G H I J K L

DUPLIX PUMP STATION SCHEDULE	
DESCRIPTION	MOUNTAIN VIEW
AREA	D
TOP WETWELL SLAB ELEVATION (FT)	100.2
WETWELL FLOOR ELEVATION (FT)	86.7
WETWELL DEPTH (FT)	13.5
INLET PIPING SIZE (IN)	10
NUMBER OF INLETS	1
INLET PIPING INVERT ELEVATION (FT)	91.75
DISCHARGE PIPING SIZE (IN)	4
FORCE MAIN SIZE (IN)	4
FORCE MAIN CENTERLINE ELEVATION (FT)	97.0



DUPLIX SUBMERSIBLE PUMP STATION PLAN



SECTION A  
DUPLIX PUMP STATION

- NOTES:
- REFER TO CIVIL DRAWINGS FOR CONTINUATION OF PIPING.
  - CONTRACTOR TO VERIFY INLET PIPING CONDITIONS WITH COLLECTION SYSTEM PIPING.
  - CONTRACTOR TO VERIFY INLET PIPING AND WETWELL ELEVATION CONDITIONS.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: \_\_\_\_\_  
 DRAWN BY: JAW  
 CHECKED BY: \_\_\_\_\_  
 DATE: MARCH 2012

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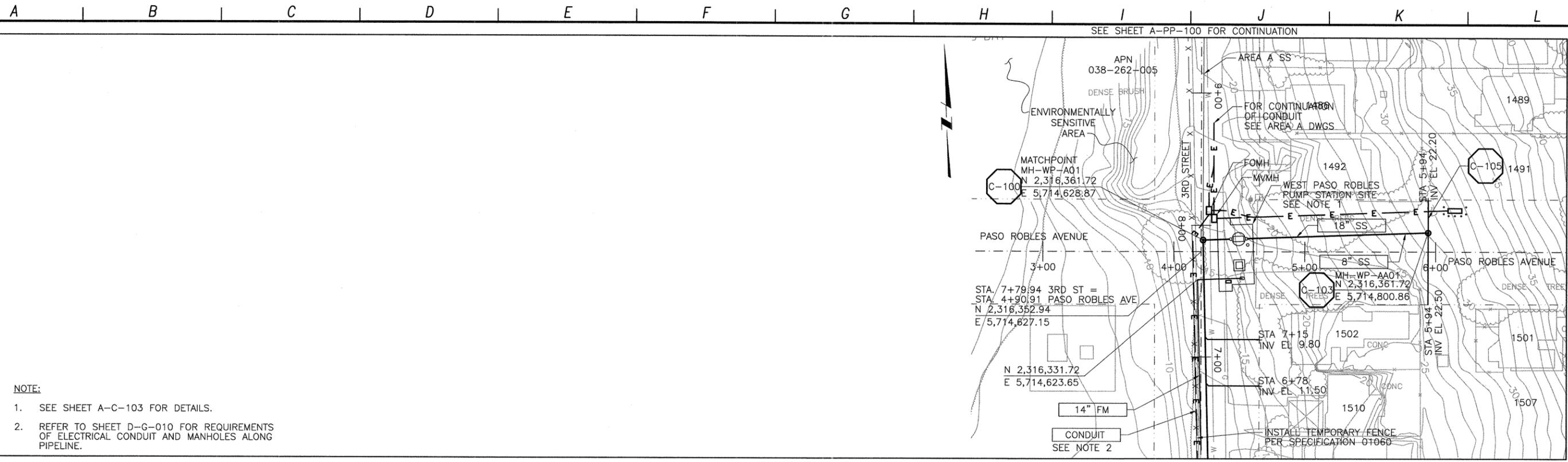


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LOS OSOS WASTEWATER COLLECTION SYSTEM  
**MECHANICAL SUBMERSIBLE PUMP STATIONS**  
 DUPLEX LAYOUT - PLAN & SECTION

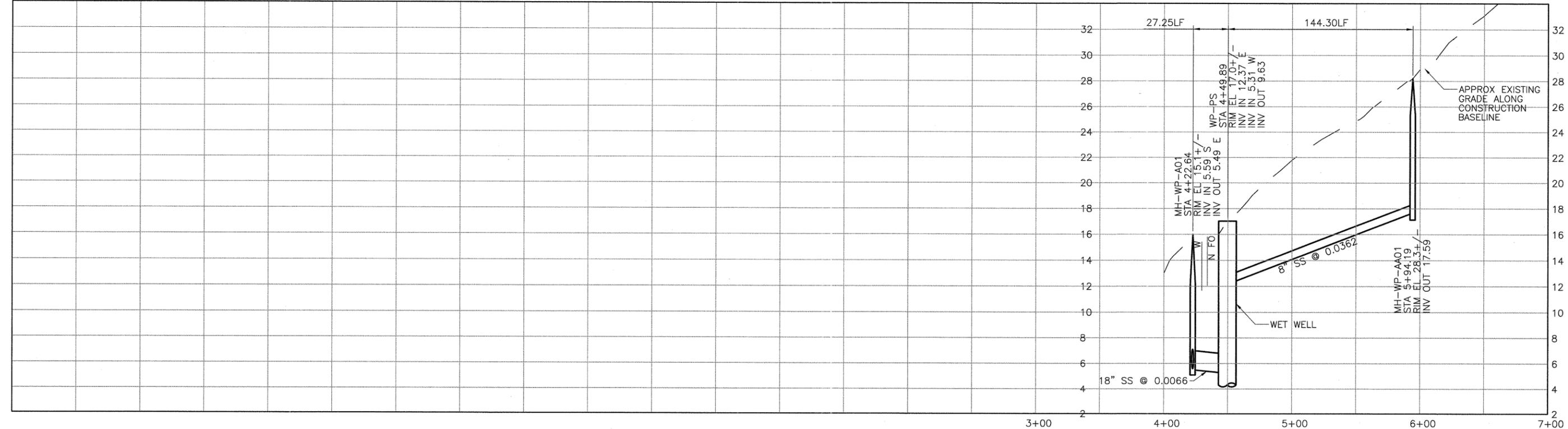
PROJECT NO. 42502-83120  
 FILE NAME: D-M-004  
 SHEET NO. **D-M-004**

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- NOTE:
- SEE SHEET A-C-103 FOR DETAILS.
  - REFER TO SHEET D-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUIT AND MANHOLES ALONG PIPELINE.

PLAN ON PASO ROBLES



PROFILE ON PASO ROBLES

CONSTRUCTION BASELINE STATION

SCALE:  
 HORZ: 1"=40'  
 VERT: 1"=4'

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: APS  
 DRAWN BY: LLB  
 CHECKED BY: MDM  
 DATE: MARCH, 2012

**CDM Smith**  
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 Sacramento, CA 95833  
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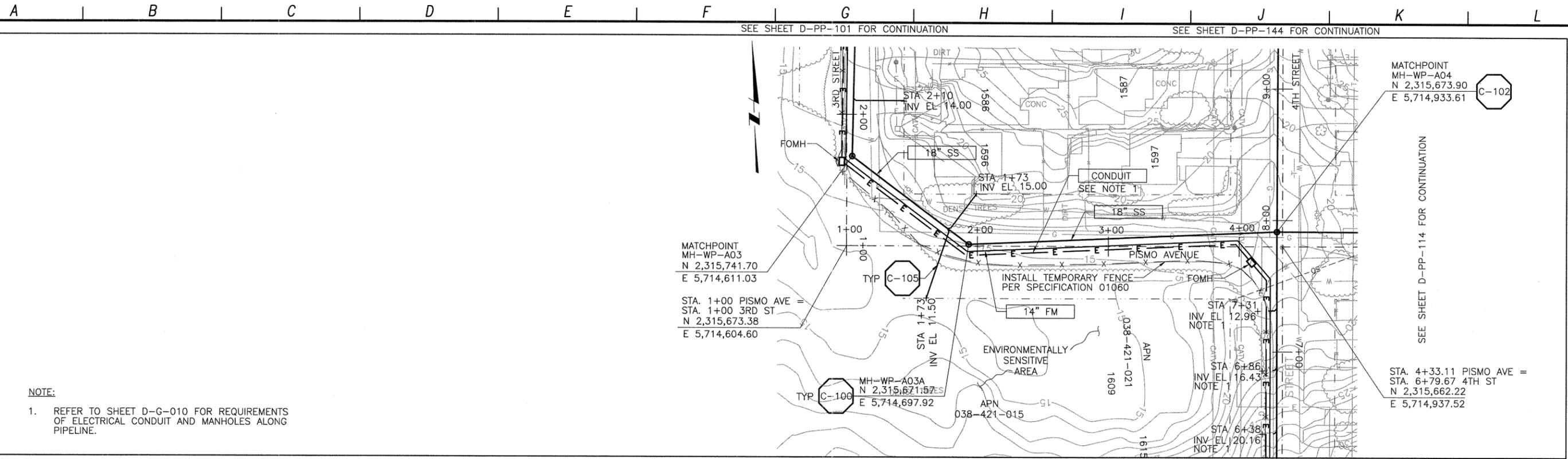
**DIGALERT**  
 DIAL TOLL FREE 1-800-642-2444  
 AT LEAST TWO DAYS BEFORE YOU DIG  
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM  
**PLAN AND PROFILE**  
**PASO ROBLES AVE**  
**STA. 4+22.64 TO 5+94.19**

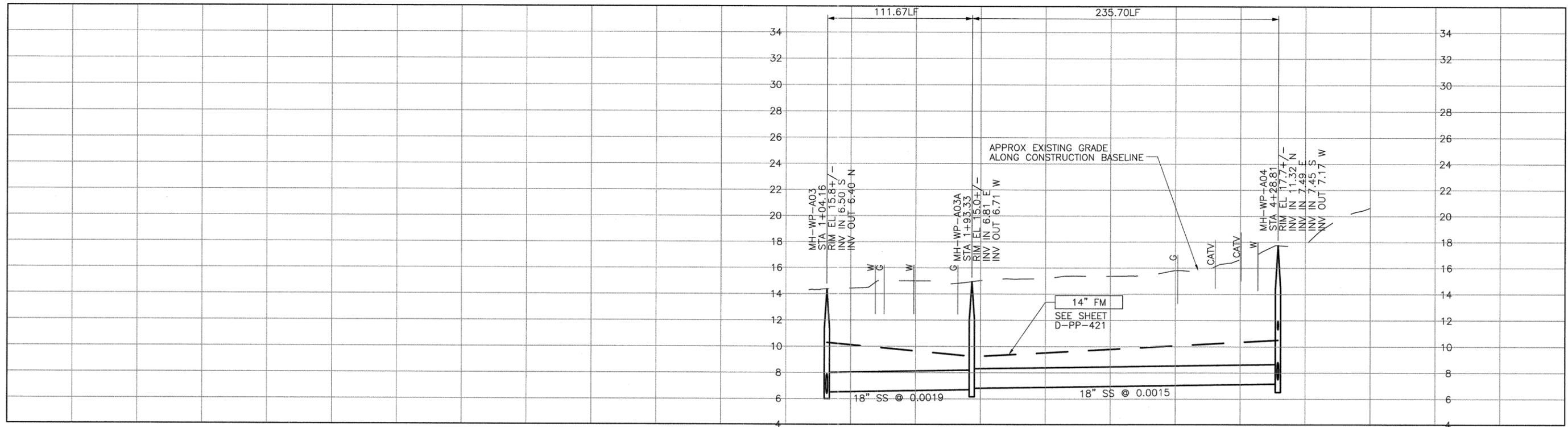
PROJECT NO. 42502-83120  
 FILE NAME: D-PP-100  
 SHEET NO.  
**D-PP-100**



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PLAN ON PISMO AVENUE



PROFILE ON PISMO AVENUE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: APS  
 DRAWN BY: LLB  
 CHECKED BY: MDM  
 DATE: MARCH, 2012

**CDM Smith**  
 2295 Gateway Oaks Drive, Suite 240  
 Sacramento, CA 95833  
 Tel: (916) 567-9900



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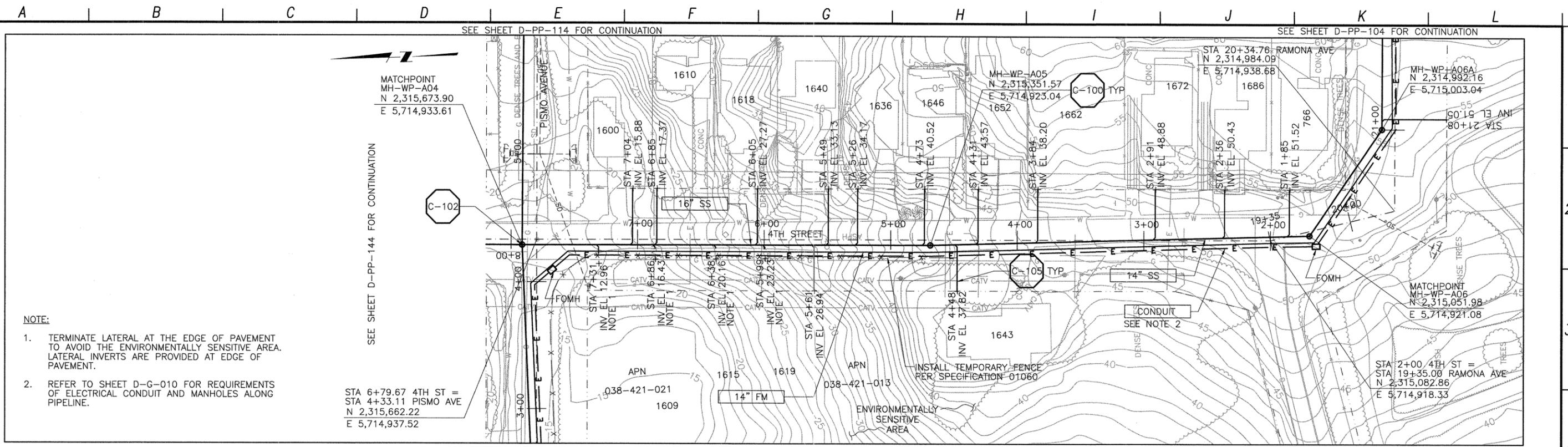
**DIGALERT**  
 DIAL TOLL FREE 1-800-642-2444  
 AT LEAST TWO DAYS BEFORE YOU DIG  
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LOS OSOS WASTEWATER COLLECTION SYSTEM  
**PLAN AND PROFILE**  
**PISMO AVE**  
 STA. 1+04.16 TO 4+28.81

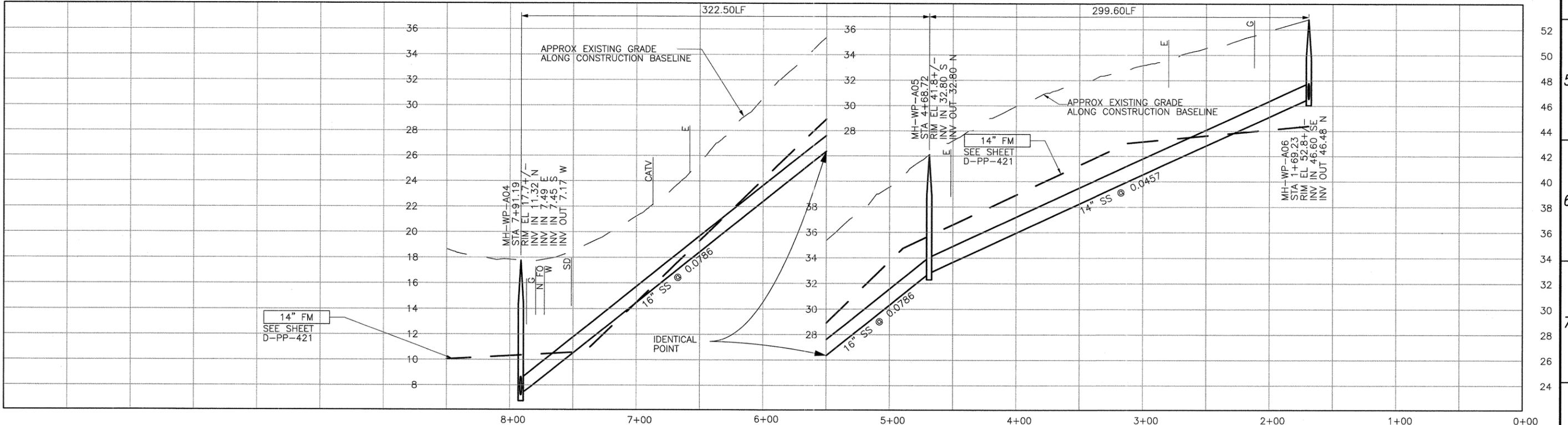
PROJECT NO. 42502-83120  
 FILE NAME: D-PP-102  
 SHEET NO.  
**D-PP-102**

SCALE:  
 HORZ: 1"=40'  
 VERT: 1"=4'

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PLAN ON 4TH STREET



PROFILE ON 4TH STREET

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: SDN  
 DRAWN BY: LLB  
 CHECKED BY: MDM  
 DATE: MARCH, 2012

**CDM Smith**  
 2295 Gateway Oaks Drive, Suite 240  
 Sacramento, CA 95833  
 Tel: (916) 567-9900



0 1/2 1  
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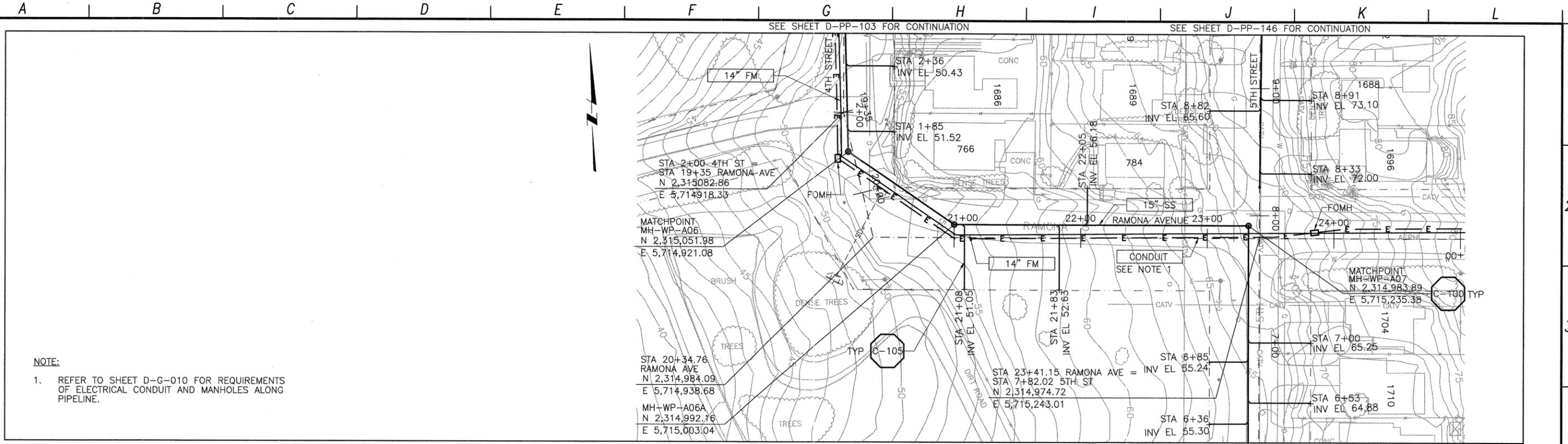
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LOS OSOS WASTEWATER COLLECTION SYSTEM  
**PLAN AND PROFILE**  
**4TH STREET**  
 STA. 7+91.19 TO 1+69.23

PROJECT NO. 42502-83120  
 FILE NAME: D-PP-103  
 SHEET NO.  
**D-PP-103**

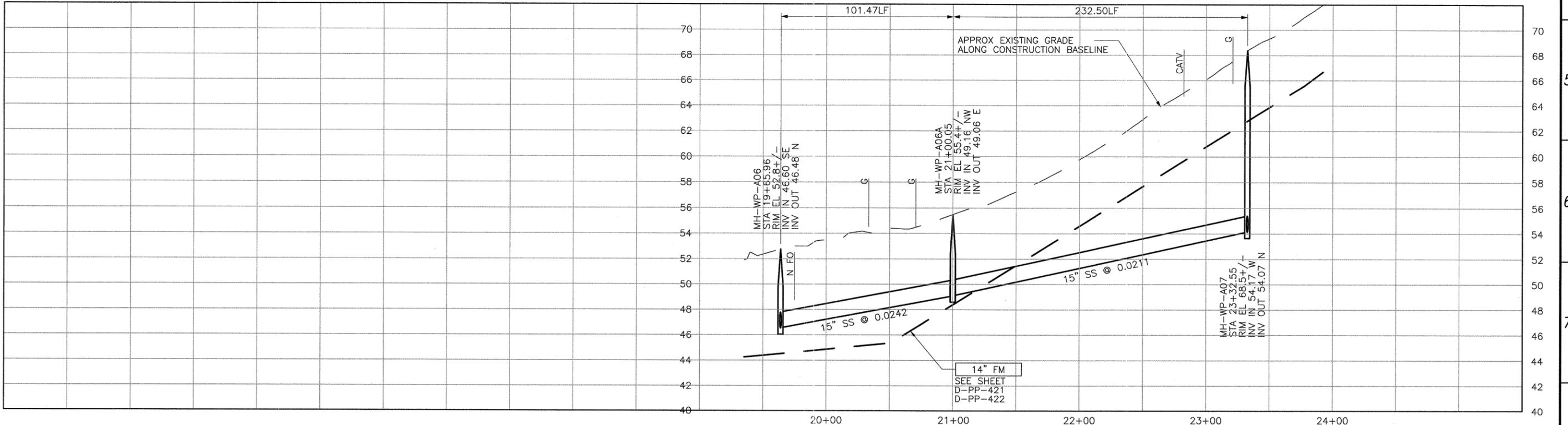
SCALE:  
 HORZ: 1"=40'  
 VERT: 1"=4'

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**NOTE:**  
 1. REFER TO SHEET D-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUIT AND MANHOLES ALONG PIPELINE.

**PLAN ON RAMONA AVENUE**

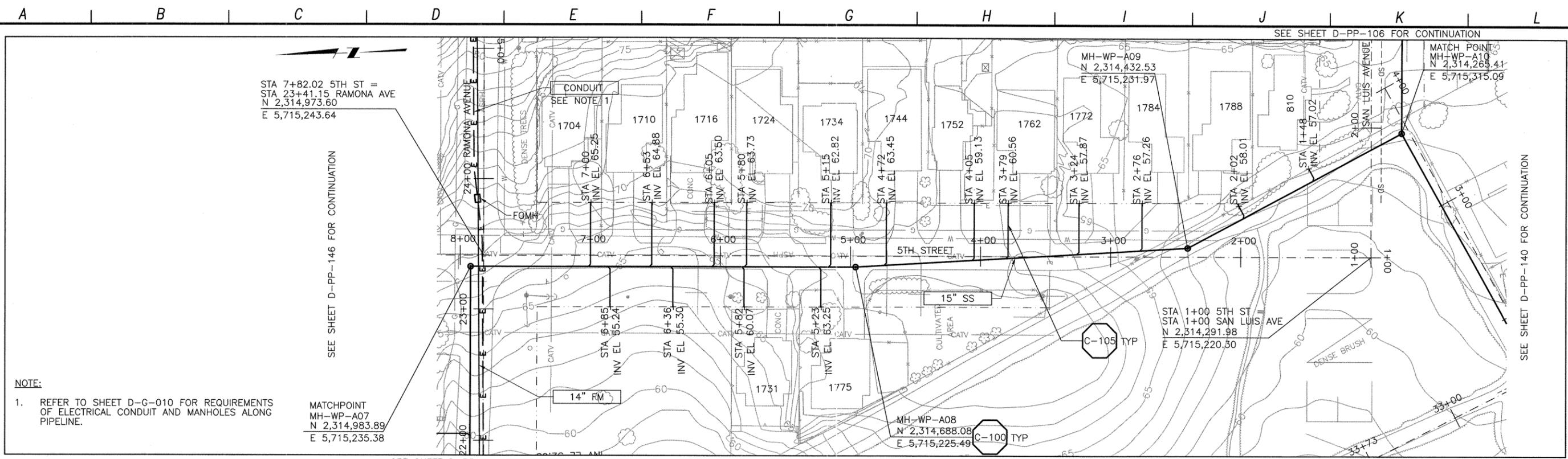


**PROFILE ON RAMONA AVENUE**

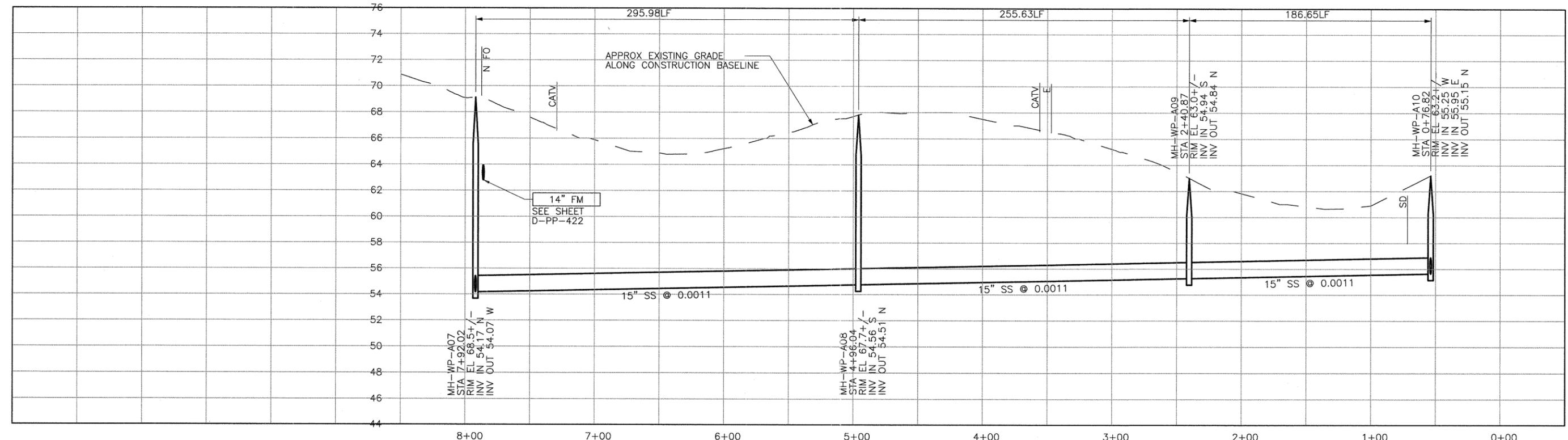
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>DESIGNED BY:</td><td>SDN</td></tr> <tr><td>DRAWN BY:</td><td>LLB</td></tr> <tr><td>CHECKED BY:</td><td>MDM</td></tr> <tr><td>DATE:</td><td>MARCH, 2012</td></tr> </table>	DESIGNED BY:	SDN	DRAWN BY:	LLB	CHECKED BY:	MDM	DATE:	MARCH, 2012	 2295 Gateway Oaks Drive, Suite 240 Sacramento, CA 95833 Tel: (916) 567-9900	 D. HILTON CIVIL STATE OF CALIFORNIA	 0 1/2 1 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY	 DIAL TOLL FREE 1-800-642-2444 AT LEAST TWO DAYS BEFORE YOU DIG UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA	<b>LOS OSOS WASTEWATER COLLECTION SYSTEM</b> <b>PLAN AND PROFILE</b> <b>RAMONA AVE</b> <b>STA. 19+65.96 TO 23+32.55</b>	PROJECT NO. 42502-83120 FILE NAME: D-PP-104 SHEET NO. <b>D-PP-104</b>
DESIGNED BY:	SDN													
DRAWN BY:	LLB													
CHECKED BY:	MDM													
DATE:	MARCH, 2012													

SCALE:  
 HORZ: 1"=40'  
 VERT: 1"=4'

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PLAN ON 5TH STREET



PROFILE ON 5TH STREET

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: SDN  
 DRAWN BY: LLB  
 CHECKED BY: MDM  
 DATE: MARCH, 2012

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 Sacramento, CA 95833  
 Tel: (916) 567-9900



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 THEN ADJUST SCALE  
 ACCORDINGLY

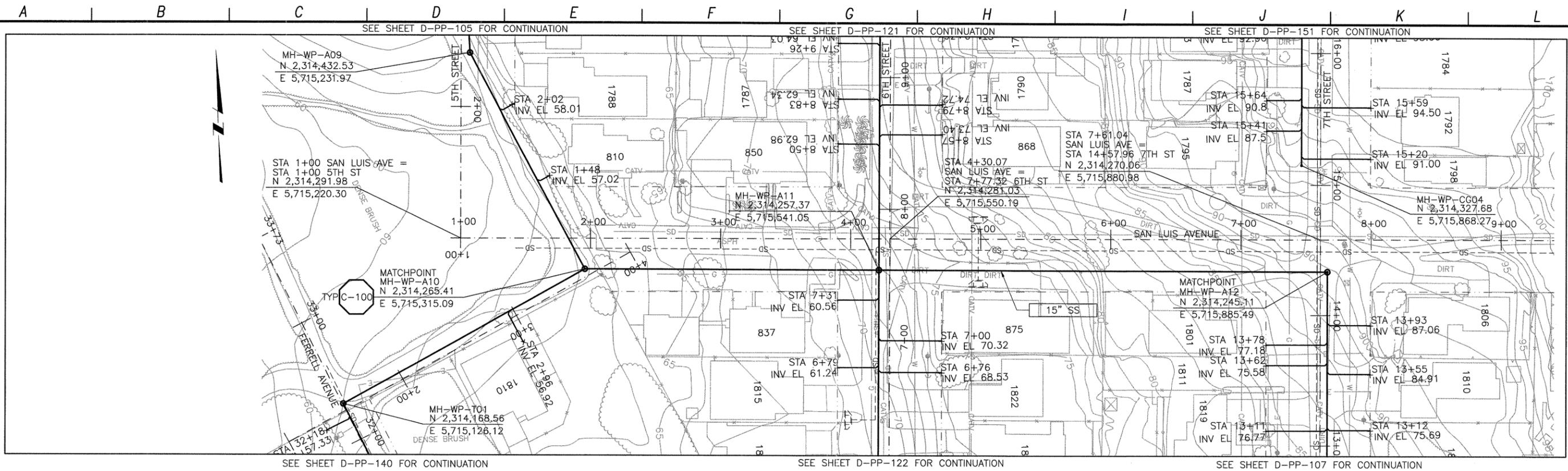


**DIGALERT**  
 DIAL TOLL FREE  
 1-800-642-2444  
 AT LEAST TWO DAYS  
 BEFORE YOU DIG  
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

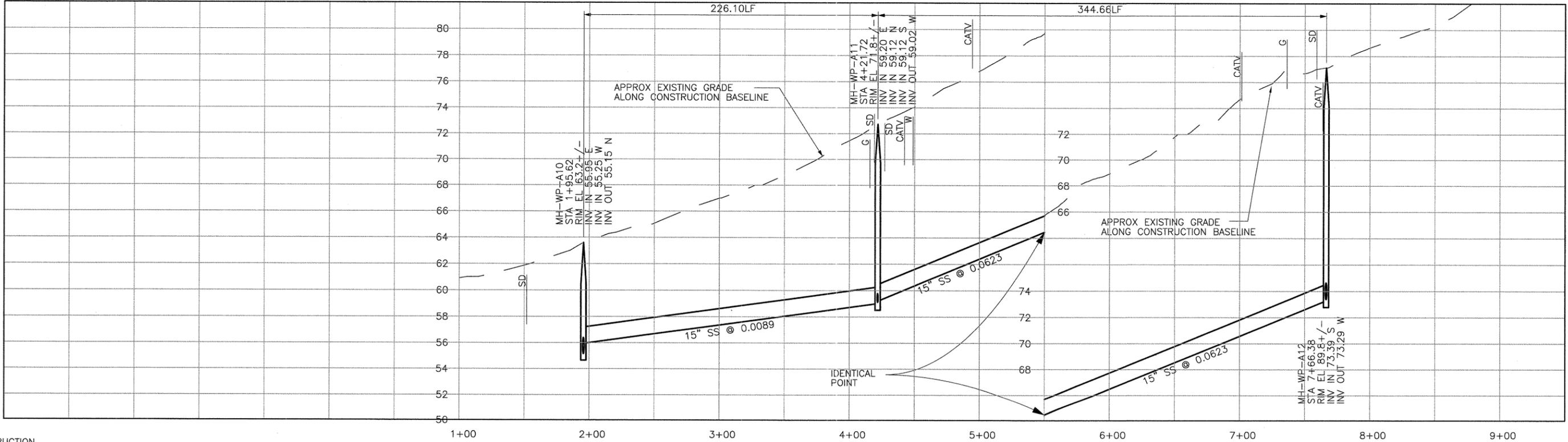
LOS OSOS WASTEWATER COLLECTION SYSTEM  
**PLAN AND PROFILE**  
**5TH STREET**  
**STA. 7+92.02 TO 0+76.82**

SCALE:  
 HORZ: 1"=40'  
 VERT: 1"=4'  
 PROJECT NO. 42502-83120  
 FILE NAME: D-PP-105  
 SHEET NO.  
**D-PP-105**

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PLAN ON SAN LUIS AVENUE



PROFILE ON SAN LUIS AVENUE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: SDN  
 DRAWN BY: LLB  
 CHECKED BY: MDM  
 DATE: MARCH, 2012



0 1/2 1  
 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY

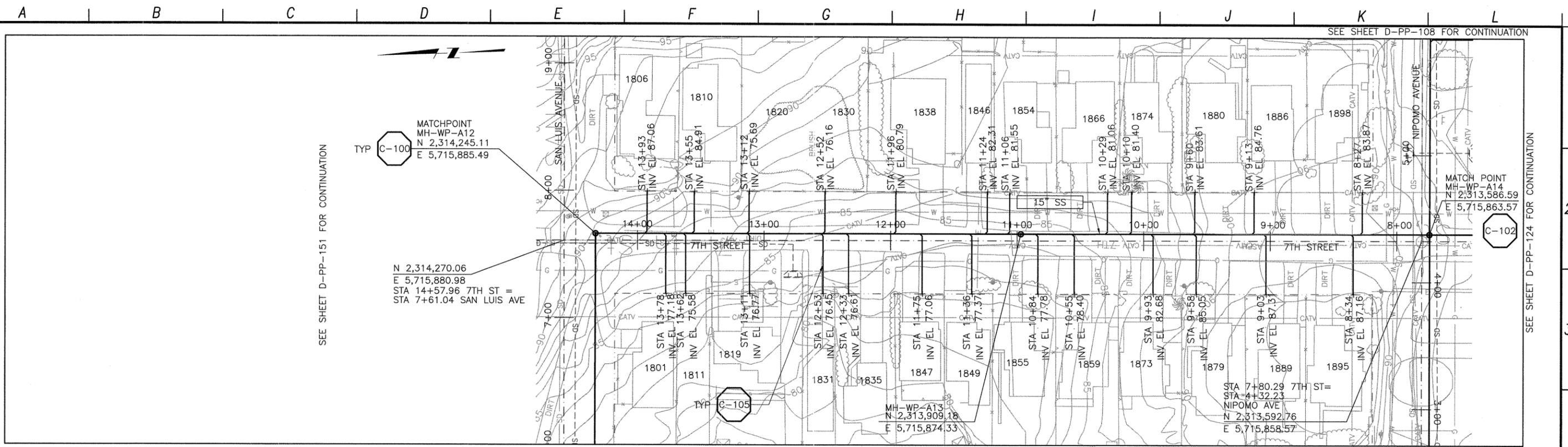


LOS OSOS WASTEWATER COLLECTION SYSTEM  
 PLAN AND PROFILE  
 SAN LUIS AVE  
 STA. 1+95.62 TO 7+66.38

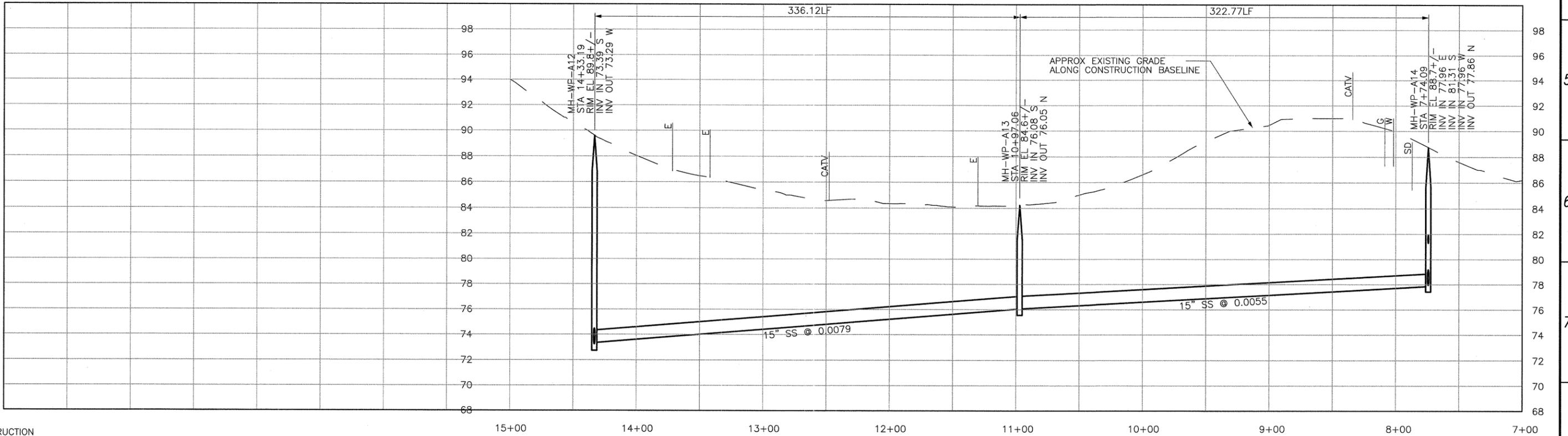
PROJECT NO. 42502-83120  
 FILE NAME: D-PP-106  
 SHEET NO.  
**D-PP-106**

SCALE:  
 HORZ: 1"=40'  
 VERT: 1"=4'

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PLAN ON 7TH STREET



PROFILE ON 7TH STREET

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: SDN  
 DRAWN BY: LLB  
 CHECKED BY: MDM  
 DATE: MARCH, 2012

**CDM Smith**  
 2295 Gateway Oaks Drive, Suite 240  
 Sacramento, CA 95833  
 Tel: (916) 567-9900



IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY



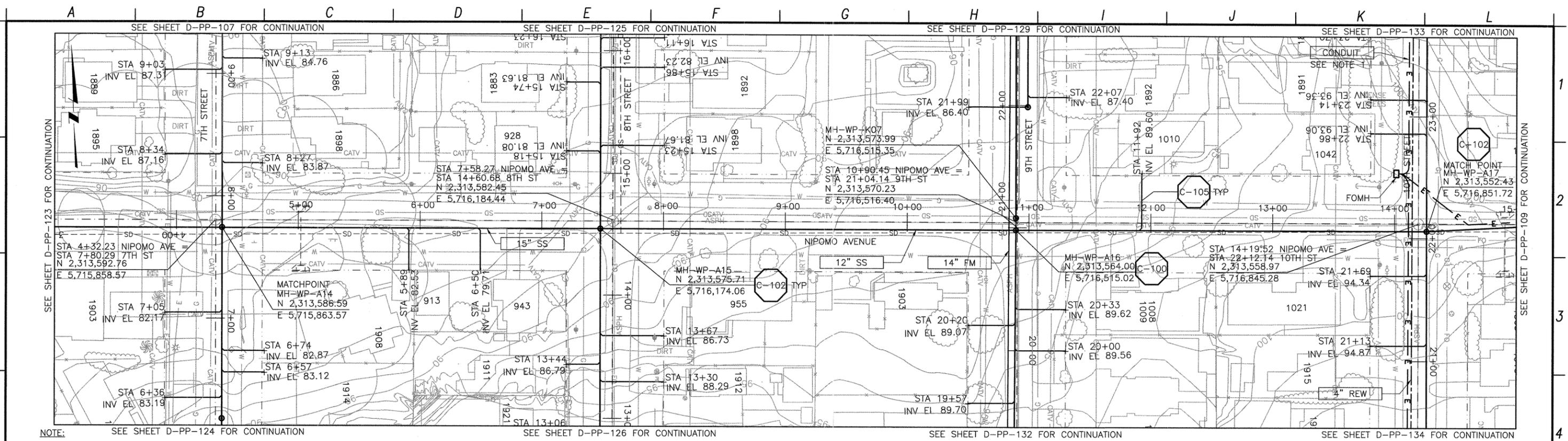
**DIGALERT**  
 DIAL TOLL FREE 1-800-642-2444  
 AT LEAST TWO DAYS BEFORE YOU DIG  
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM  
**PLAN AND PROFILE**  
**7TH STREET**  
**STA. 14+33.19 TO 7+74.09**

PROJECT NO. 42502-83120  
 FILE NAME: D-PP-107  
 SHEET NO.  
**D-PP-107**

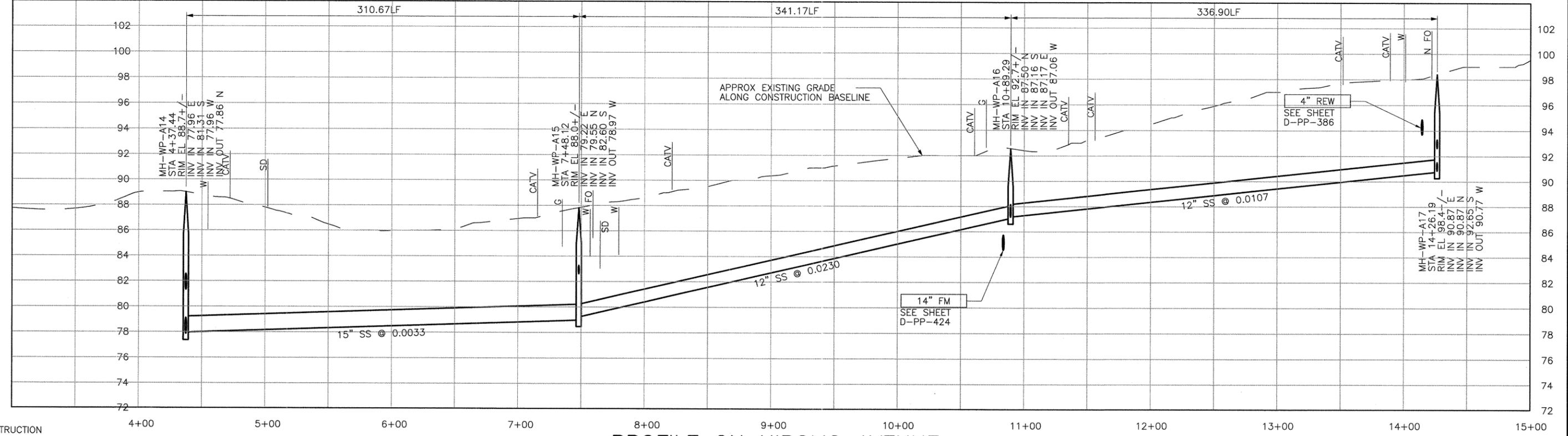
SCALE:  
 HORZ: 1"=40'  
 VERT: 1"=4'

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**PLAN ON NIPOMO AVENUE**

- REFER TO SHEET D-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUIT AND MANHOLES ALONG PIPELINE.



**PROFILE ON NIPOMO AVENUE**

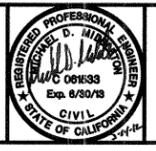
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: SDN  
 DRAWN BY: LLB  
 CHECKED BY: MDM  
 DATE: MARCH, 2012

**CDM Smith**  
 2295 Gateway Oaks Drive, Suite 240  
 Sacramento, CA 95833  
 Tel: (916) 567-9900



0 1/2 1  
 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY



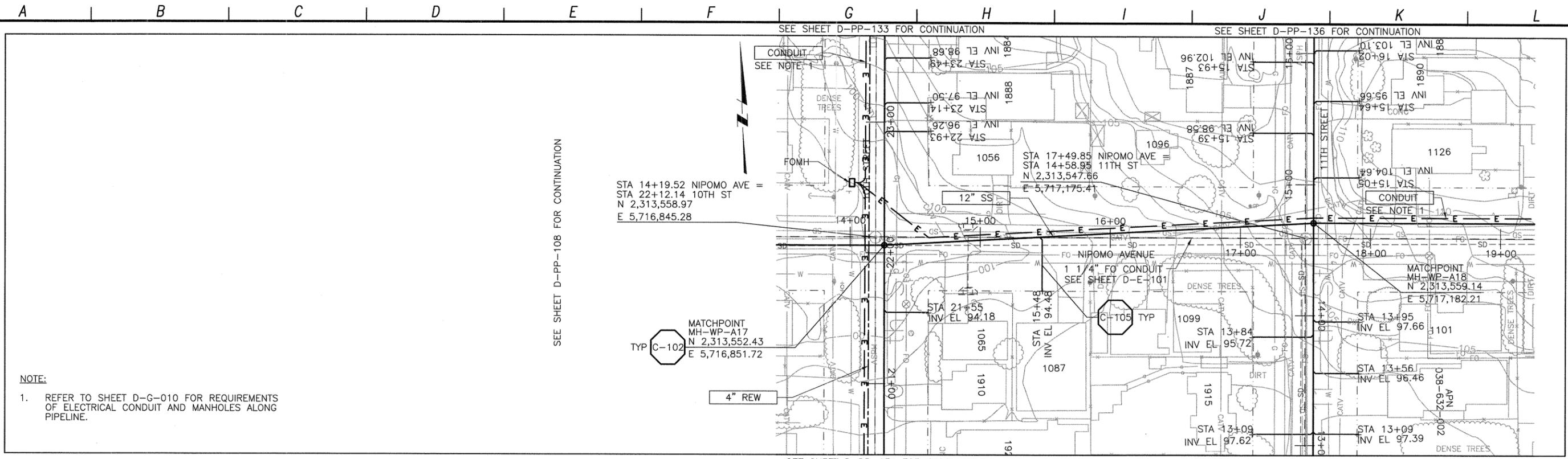
**DIGALERT**  
 DIAL TOLL FREE 1-800-642-2444  
 AT LEAST TWO DAYS BEFORE YOU DIG  
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM  
**PLAN AND PROFILE**  
**NIPOMO AVE**  
 STA. 4+37.44 TO 14+26.19

PROJECT NO. 42502-83120  
 FILE NAME: D-PP-108  
 SHEET NO.  
**D-PP-108**

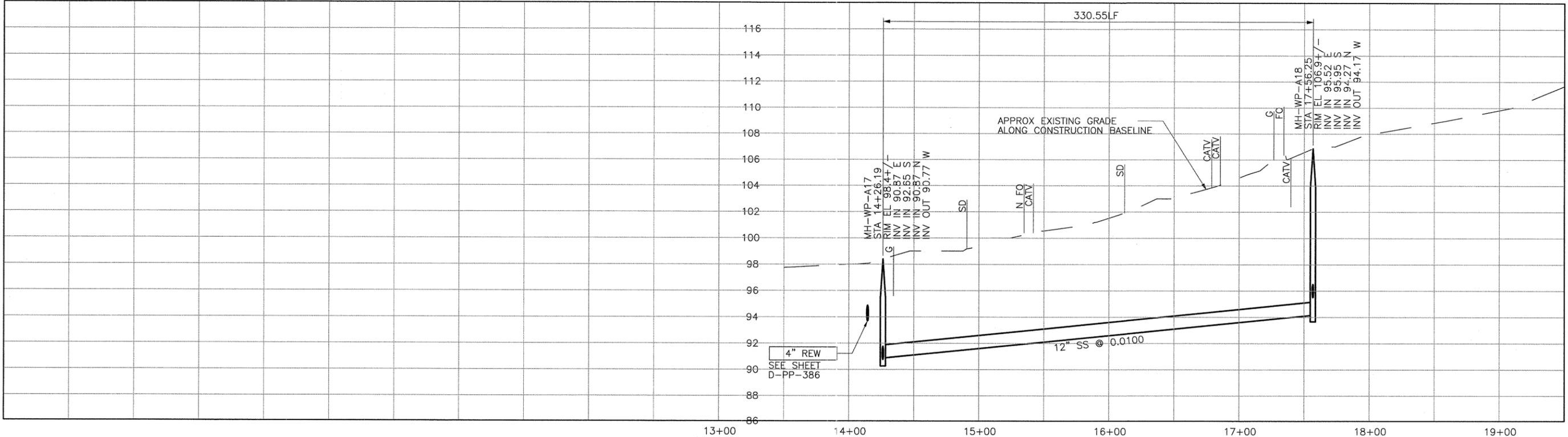
SCALE:  
 HORZ: 1"=40'  
 VERT: 1"=4'

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NOTE:  
 1. REFER TO SHEET D-C-010 FOR REQUIREMENTS OF ELECTRICAL CONDUIT AND MANHOLES ALONG PIPELINE.

PLAN ON NIPOMO AVENUE



PROFILE ON NIPOMO AVENUE

CONSTRUCTION BASELINE STATION

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: SDN  
 DRAWN BY: LLB  
 CHECKED BY: MDM  
 DATE: MARCH, 2012

**CDM Smith**  
 2295 Gateway Oaks Drive, Suite 240  
 Sacramento, CA 95833  
 Tel: (916) 567-9900



IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY



**DIGALERT**  
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 AT LEAST TWO DAYS BEFORE YOU DIG  
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

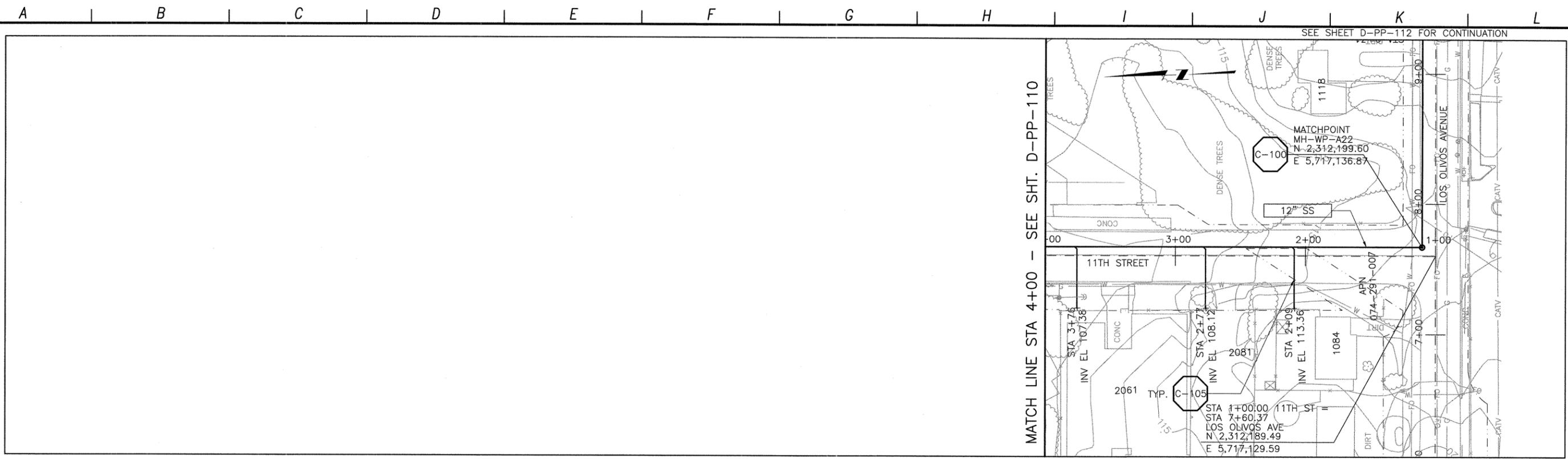
LOS OSOS WASTEWATER COLLECTION SYSTEM  
**PLAN AND PROFILE**  
**NIPOMO AVE**  
 STA. 14+26.19 TO 17+56.25

PROJECT NO. 42502-83120  
 FILE NAME: D-PP-109  
 SHEET NO.  
**D-PP-109**

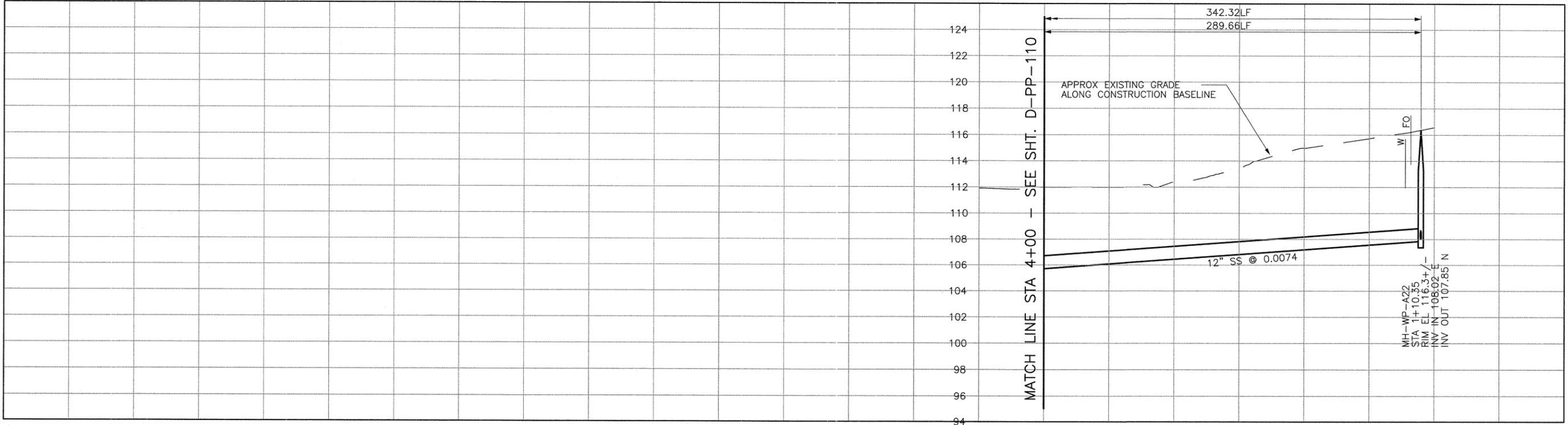
SCALE:  
 HORZ: 1"=40'  
 VERT: 1"=4'



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PLAN ON 11TH STREET



PROFILE ON 11TH STREET

CONSTRUCTION  
BASELINE  
STATION

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: SDN  
 DRAWN BY: LLB  
 CHECKED BY: MDM  
 DATE: MARCH, 2012

**CDM Smith**  
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LOS OSOS WASTEWATER COLLECTION SYSTEM  
**PLAN AND PROFILE**  
**11TH STREET**  
 STA. 4+00.00 TO 1+10.35

SCALE:  
 HORZ: 1"=40'  
 VERT: 1"=4'  
 PROJECT No. 42502-83120  
 FILE NAME: D-PP-111  
 SHEET NO.  
**D-PP-111**