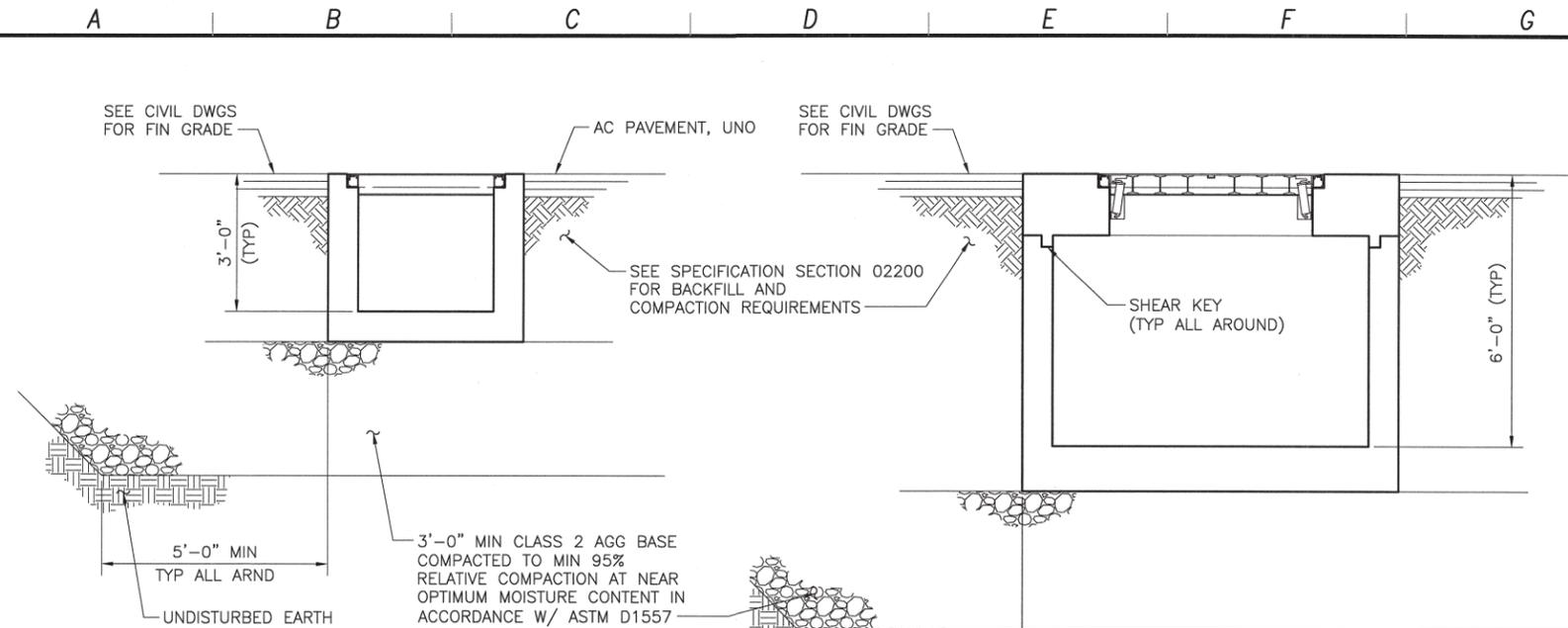
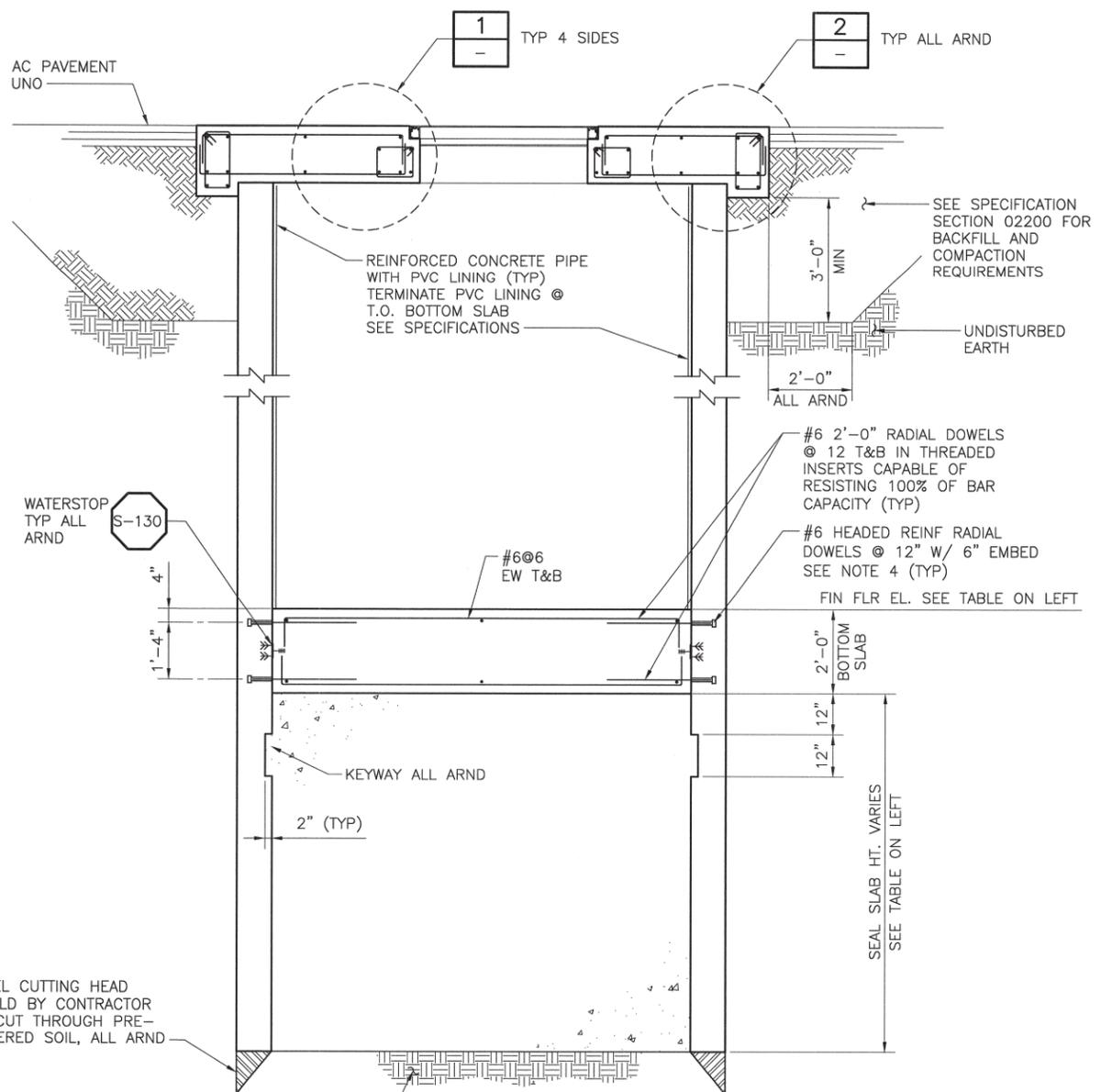


©2012 CDM SMITH ALL RIGHTS RESERVED. INCORPORATED HEREIN ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.  
 REUSE OF DOCUMENTS: THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.  
 N:\CAD2008\los osos\01-sheets\C-C-STR\C-S-012 03/29/12 17:05 rushma\_xrefes; Lososos-bdr; Submers-PSModels, CA-CNO

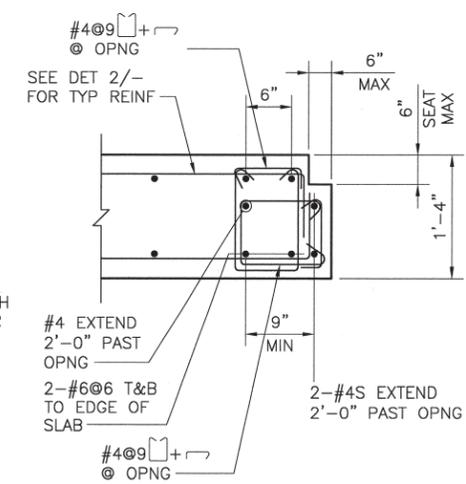


**PRECAST CLEANOUT VAULT**  
**SECTION A**  
 SCALE: 1/2"=1' C-S-011

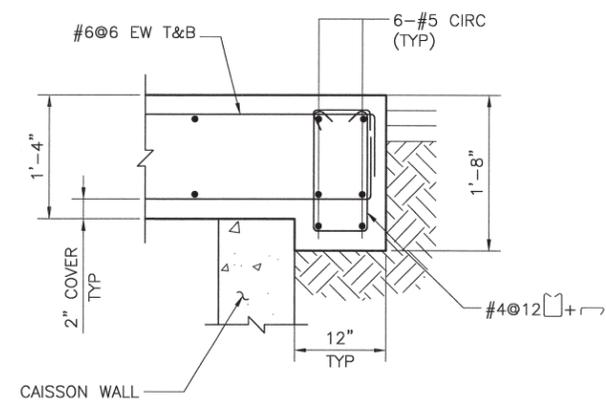
**PRECAST VALVE VAULT**  
**SECTION B**  
 SCALE: 1/2"=1' C-S-011



**PUMP STATION**  
**SECTION C**  
 SCALE: 1/2"=1' C-S-011



**DETAIL 1**  
 SCALE: 1"=1' C-S-013



**DETAIL 2**  
 SCALE: 1"=1' C-S-013

NOTES:  
 1. ACCESS HATCH NOT SHOWN FOR CLARITY.

- NOTES:
- REFER TO SPEC SECTION 02355 FOR PUMP STATION RECOMMENDED CHRONOLOGICAL SEQUENCED OF CONSTRUCTION AND ADD'L INFO.
  - REFER TO THE TABLE HEREIN FOR THE FINISHED GRADE ELEVATIONS AND FINISHED FLOOR ELEVATIONS OF THE WET WELL AT VARIOUS SITES.
  - 8' OR 10' INTERNAL DIA PRECAST CONCRETE SECTIONS USED FOR THE SUBMERSIBLE PUMP STATIONS SHALL BE REINFORCED CONCRETE PIPE PER ASTM C-76, CLASS III. REINFORCEMENT SHALL BE CIRCULAR. JOINTS SHALL BE STEEL FLUSH BELL WITH O-RING GASKET, CONFORMING TO ASTM C-361. SEE SPECIFICATION SECTION 02612 FOR ADDITIONAL REQUIREMENTS.
  - SEE SPECIFICATION 03200 FOR ADD'L INFORMATION ON HEADED REINF.

PUMP STATION	DUPLEX
SITE LOCATION	SUNNY OAKS
SUBMERSIBLE PS FIN GRADE EL.	154.90'
SUBMERSIBLE PS FIN FLR EL.	146.50'
SUBMERSIBLE PS I.D.	8'-0"
MIN SEAL SLAB DEPTH	2'-6"

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: CNO  
 DRAWN BY: TVN  
 CHECKED BY: LGS  
 DATE: APRIL 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



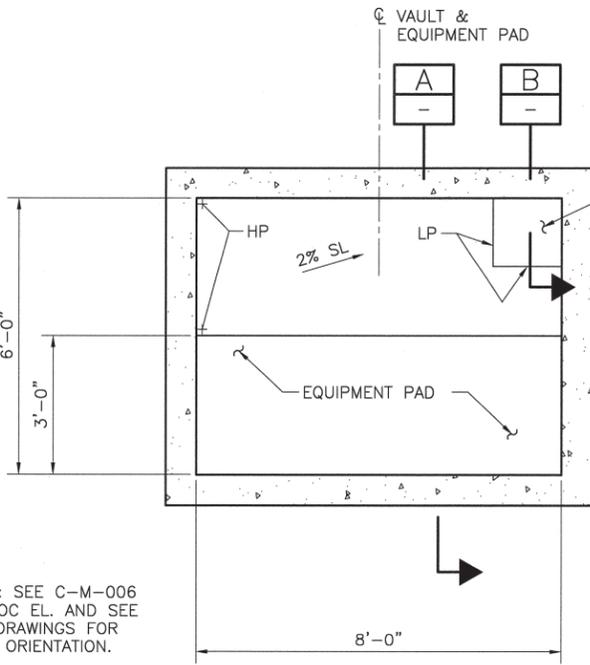
**DIGALERT**  
 DIAL TOLL FREE  
 1-800-642-2444  
 AT LEAST TWO DAYS BEFORE YOU DIG  
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM  
**STRUCTURAL SUBMERSIBLE PUMP STATIONS & VALVE VAULTS - SECTIONS AND DETAILS**

PROJECT NO. 42502-83120  
 FILE NAME: C-S-012  
 SHEET NO. **C-S-012**

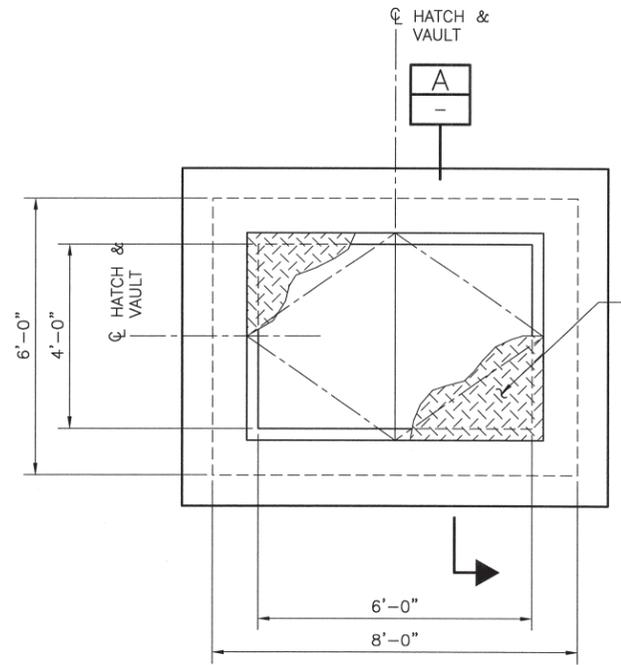
©2012 CDM SMITH. ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

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

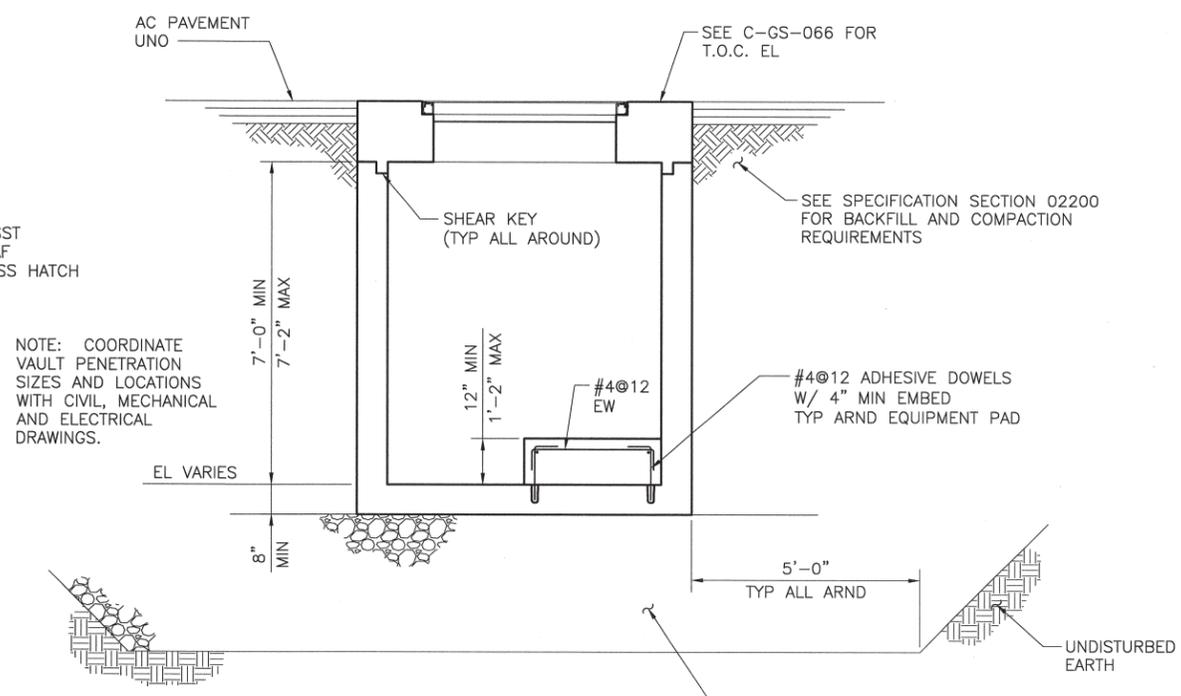


NOTES: SEE C-M-006 FOR TOC EL. AND SEE CIVIL DRAWINGS FOR VAULT ORIENTATION.

**PRECAST ODOR CONTROL VAULT FOUNDATION PLAN**  
SCALE: 1/2"=1'-0"

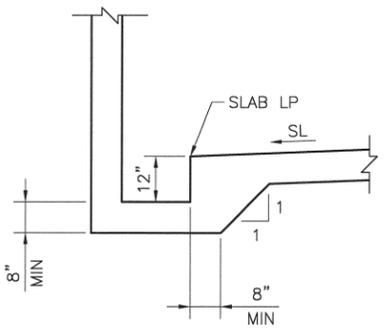


**PRECAST ODOR CONTROL VAULT TOP PLAN**  
SCALE: 1/2"=1'-0"



NOTE: COORDINATE VAULT PENETRATION SIZES AND LOCATIONS WITH CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS.

**PRECAST ODOR CONTROL VAULT SECTION**  
SCALE: 1/2"=1'



**SECTION B**  
SCALE: 1/2"=1'

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: CNO  
 DRAWN BY: TVN  
 CHECKED BY: LGS  
 DATE: APRIL 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

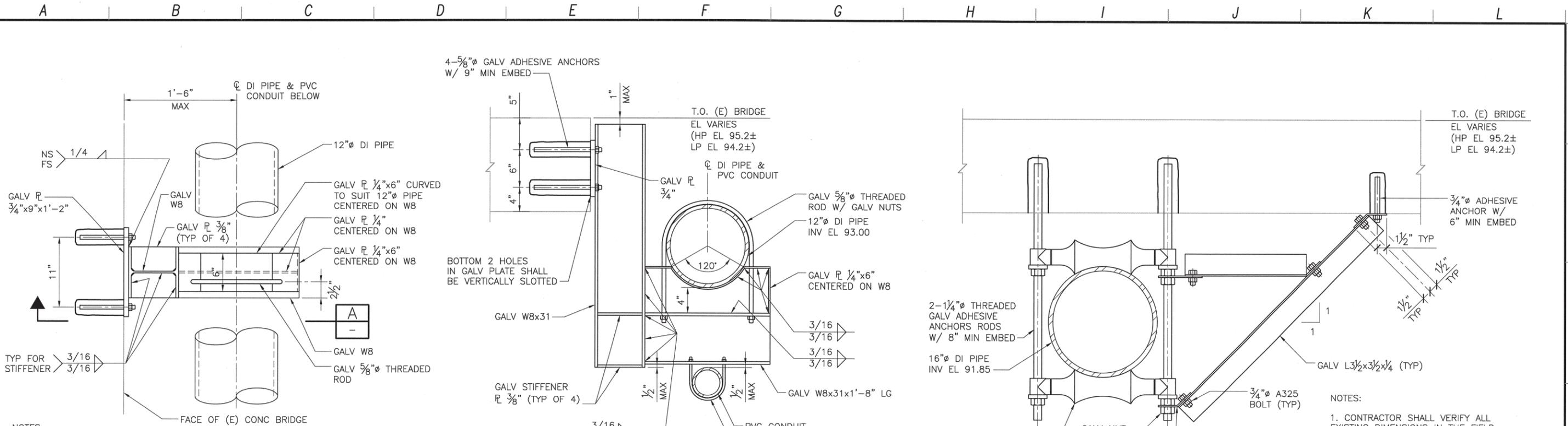


**DIGALERT**  
 DIAL TOLL FREE 1-800-642-2444  
 AT LEAST TWO DAYS BEFORE YOU DIG  
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM  
**STRUCTURAL ODOR CONTROL VAULTS PLANS AND SECTIONS**

PROJECT NO. 42502-B3120  
 FILE NAME: C-S-013  
 SHEET NO.  
**C-S-013**

©2012 CDM SMITH. ALL RIGHTS RESERVED. REUSE OF DOCUMENTS OR DESIGN PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.  
 N:\ACAD2008\los osos\01-sheets\C-C-STR\C-S-014 03/30/12 09:35 rushma\_xrefes; LosOsos-bdr, CA-CNO



NOTES:

- PIPE SUPPORTS SHALL BE SPACED AT 8'-0" MAX ON CENTER.
- CONDUIT BELOW NOT SHOWN FOR CLARITY.
- SEE ELECTRICAL DRAWINGS FOR CONDUIT SIZE AND QUANTITY.
- SEE C-PP-363 FOR PIPE LOCATION.

12"Ø PIPE SUPPORT PLAN  
 DETAIL 1  
 SCALE: 1 1/2"=1'

12"Ø PIPE SUPPORT  
 SECTION A  
 SCALE: 1 1/2"=1'

16"Ø PIPE SUPPORT  
 DETAIL 2  
 SCALE: 1 1/2"=1'

NOTES:

- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS IN THE FIELD.
- SUPPORTS SHALL BE PROVIDED AT 14'-0" MAXIMUM OC.
- ADD'L NUTS AND FASTENERS SHALL BE PROVIDED AS REQ'D BY SUPPORT MANUFACTURER.
- SEE C-PP-410 FOR PIPE LOCATION.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: CNO  
 DRAWN BY: TVN  
 CHECKED BY: LGS  
 DATE: APRIL 2012

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



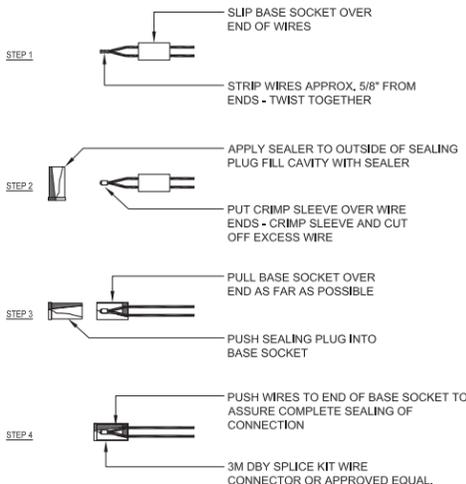
0 1/2 1  
 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY



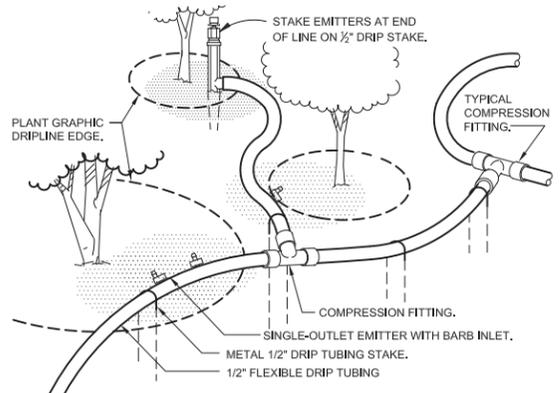
**DIGALERT**  
 DIAL TOLL FREE  
 1-800-642-2444  
 AT LEAST TWO DAYS BEFORE YOU DIG  
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM  
**BRIDGE PIPE SUPPORT  
 STRUCTURAL SECTIONS AND DETAILS**

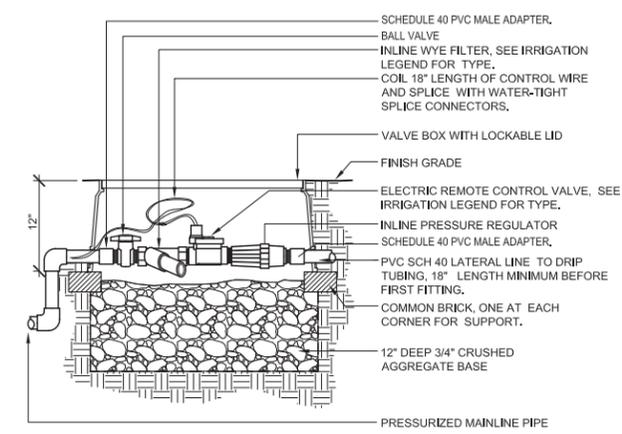
PROJECT NO. 42502-83120  
 FILE NAME: C-S-014  
 SHEET NO.  
**C-S-014**



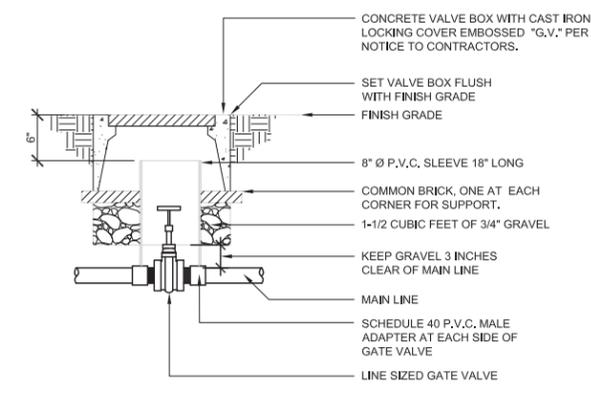
**H** WIRING CONNECTIONS  
1 1/2" = 1'-0" 328409.79-02



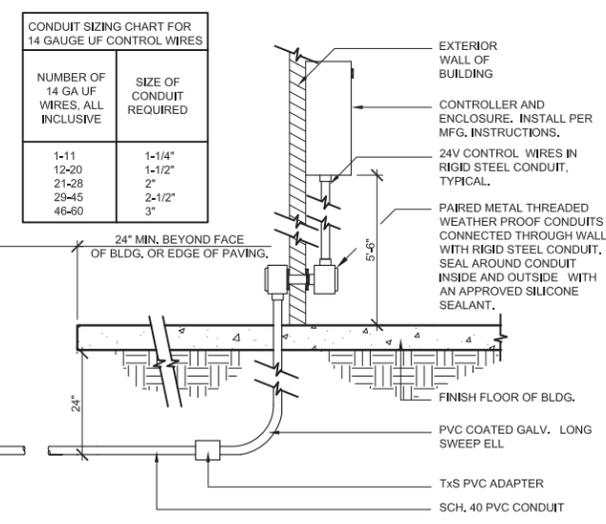
**F** TYPICAL DRIP TUBING LAYOUT  
1 1/2" = 1'-0" 328413.13-50



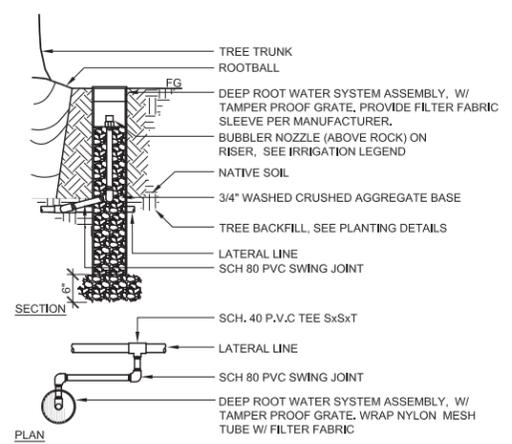
**D** DRIP ZONE CONTROL VALVE  
1/2" = 1'-0" 328413.76-50



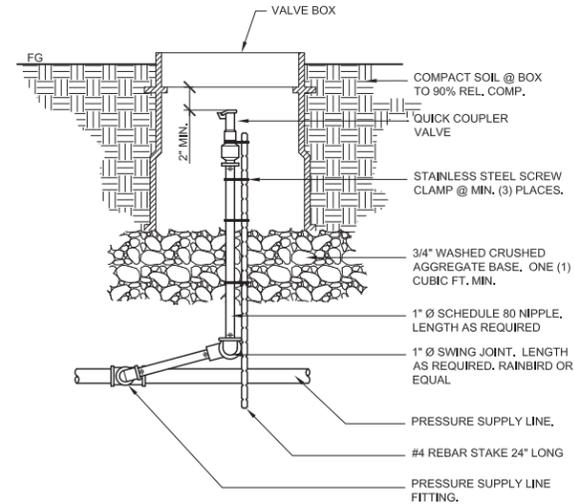
**B** GATE VALVE  
1" = 1'-0" 328406.33-50



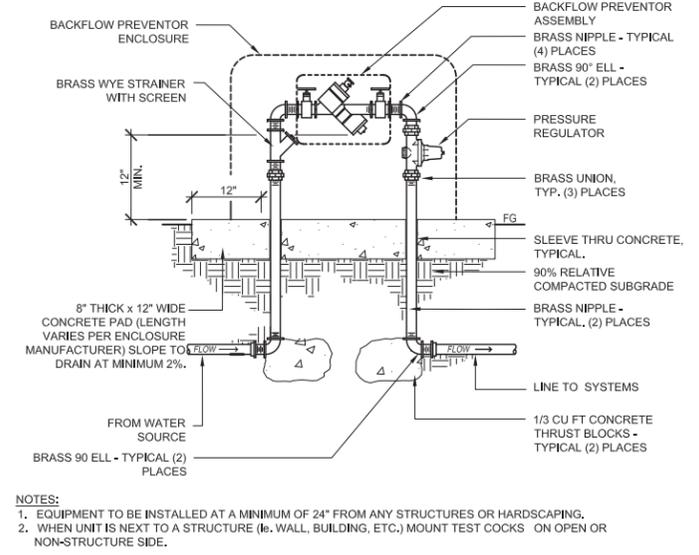
**G** INTERIOR WALL MOUNTED CONTROLLER  
3" = 1'-0" 328410.01-50



**E** DEEP ROOT TREE BUBBLER  
3/4" = 1'-0" 328415-01



**C** QUICK COUPLER  
1 1/2" = 1'-0" 328406.43-10



**A** BACKFLOW PREVENTER WITH ENCLOSURE  
1 1/2" = 1'-0" 328409.46-10

CONDUIT SIZING CHART FOR 14 GAUGE UF CONTROL WIRES

NUMBER OF 14 GA UF WIRES, ALL INCLUSIVE	SIZE OF CONDUIT REQUIRED
1-11	1-1/4"
12-20	1-1/2"
21-28	2"
29-45	2-1/2"
46-60	3"

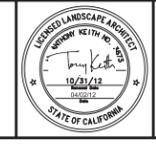
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B.M.O.  
DRAWN BY: C.D.  
CHECKED BY: T.K.  
DATE: April, 2012

**CDM** Camp Dresser & McKee Inc.  
2295 GATEWAY OAKS DRIVE  
SUITE 240  
SACRAMENTO, CA 95833  
Tel (916) 567-9900  
Fax (916) 564-5016



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

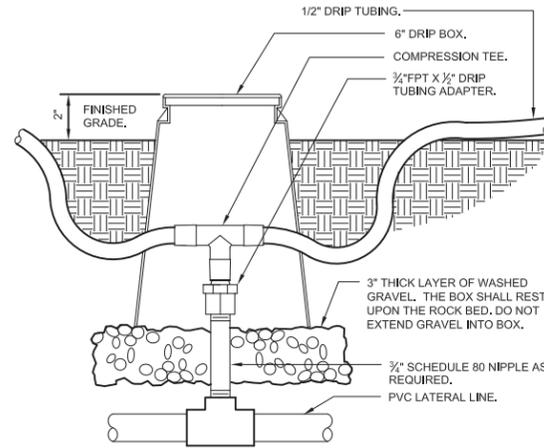


**firmdesigngroup**  
creating environments people enjoy

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

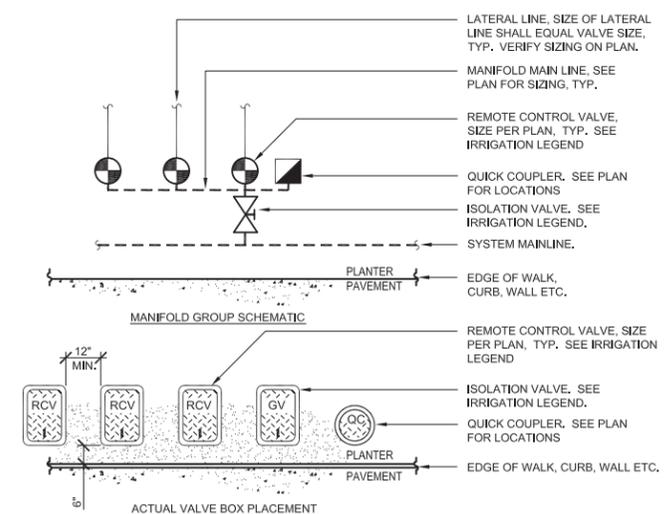
LOS OSOS WASTEWATER COLLECTION SYSTEM  
IRRIGATION DETAILS

PROJECT NO. 2011080  
FILE NAME:  
SHEET NO.  
C-L-001



**C RIGID PVC TO DRIPLINE TRANSITION**  
3" = 1'-0"

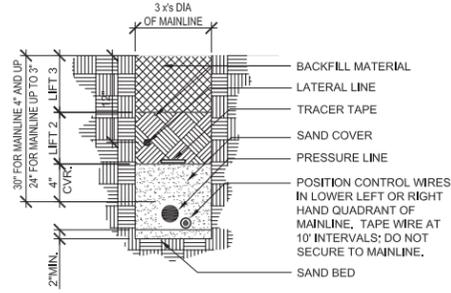
328413,46-03



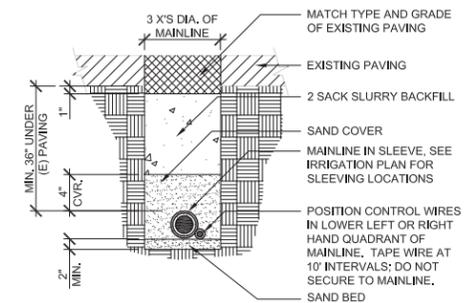
**NOTES:**  
1. ALL VALVES SHALL BE RUN OFF A MANFOLD GROUP SIMILAR TO THAT SHOWN IN ABOVE DIAGRAM.  
2. ALL BOXES SHALL BE SQUARE TO ONE ANOTHER, AND TO EDGES OF ADJACENT FIXED OBJECTS.  
3. ALL VALVE BOXES SHALL BE SET 2" ABOVE FINISH GRADE.  
4. SEE IRRIGATION PLAN FOR MAINLINE PIPE SIZING.

**B VALVE BOX LAYOUT IN PLANTERS**  
3/8" = 1'-0"

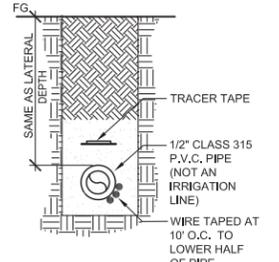
328490-01



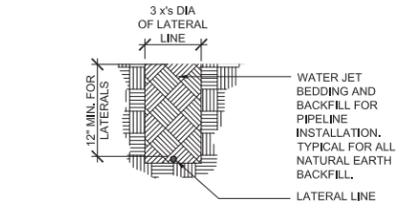
MAINLINE COMBINED WITH LATERAL LINE



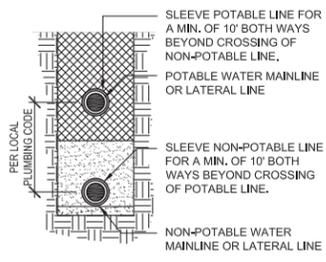
MAINLINE WITH CONTROL WIRE BELOW EXISTING PAVING



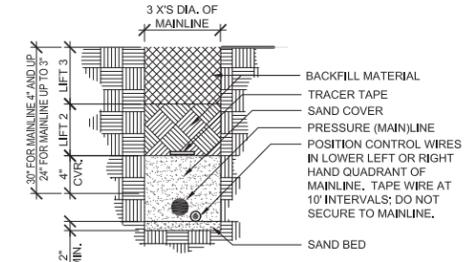
CONTROL WIRE SEPARATE FROM PIPE



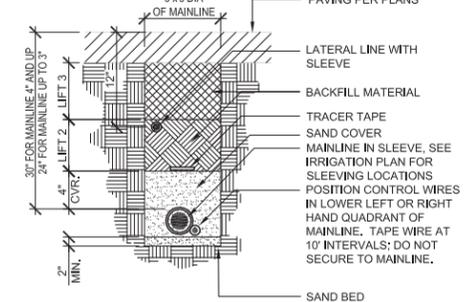
LATERAL LINE



RECLAIMED WATER & POTABLE WATER PIPE



MAINLINE WITH CONTROL WIRE



MAINLINE COMBINED WITH LATERAL LINE UNDER PAVING

**NOTES:**  
1. PIPE BEDDING AND BACKFILL SHALL BE WATER JETTED TO ACHIEVE PROPER DENSIFICATION.  
2. PIPE AND CONTROL WIRE CROSSING VEHICULAR ROADWAY SHALL BE SLEEVED PER PLANS AND THIS DETAIL REQUIRED BY INSPECTOR.  
3. ELECTRICAL SLEEVE: 3" MIN; LARGER IF REQUIRED BY INSPECTOR.  
4. IRRIGATION SLEEVE: TWO PIPE SIZES LARGER THAN WATER PIPE SIZE.  
5. SHOW ALIGNMENT OF ALL CONTROL WIRE NOT INSTALLED WITH MAINLINE ON AS-BUILT DRAWINGS.

**A TRENCHING**  
1" = 1'-0"

328401-01

DESIGNED BY: B.M.O.	DRWN	CHKD	REMARKS
DRAWN BY: C.D.			
CHECKED BY: T.K.			
DATE: April, 2012			

DATE: April, 2012

**CDM** Camp Dresser & McKee Inc.  
2295 GATEWAY OAKS DRIVE  
SUITE 240  
SACRAMENTO, CA 95833  
Tel (916) 567-9900  
Fax (916) 564-5016



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

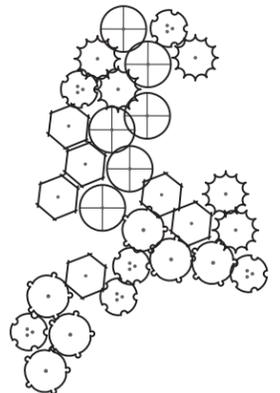


**firm design group**  
creating environments people enjoy

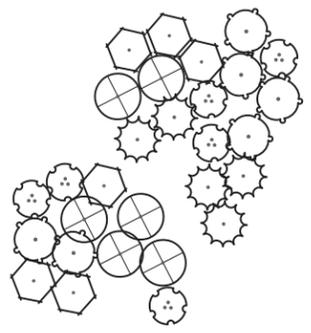
**DIGALERT**  
DIAL TOLL FREE 1-800-642-2444  
AT LEAST TWO DAYS BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM  
**IRRIGATION DETAILS**

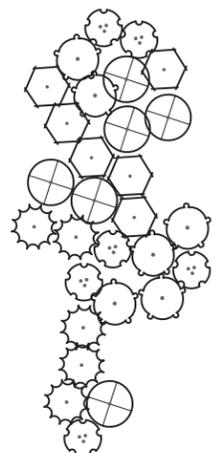
PROJECT NO. 2011080	SHEET NO.
FILE NAME:	C-L-002



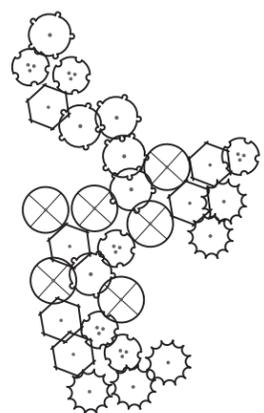
Typical Group 1



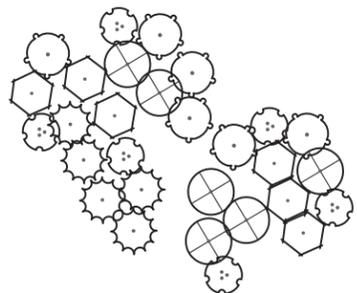
Typical Group 2



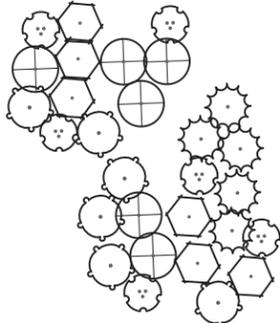
Typical Group 3



Typical Group 4



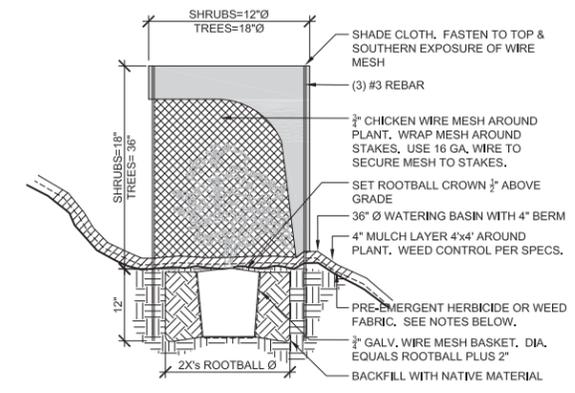
Typical Group 5



Typical Group 6

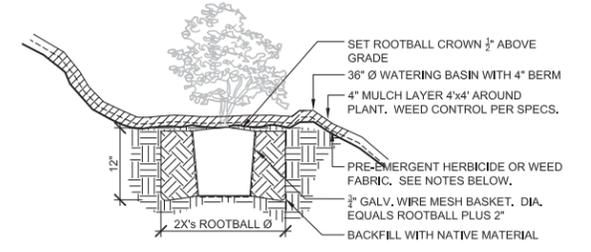
- Botanical Name / Common Name**
- Artemisia californica* / California Sage
  - Baccharis pilularis* / Coyote Bush
  - Ceanothus cuneatus 'cuneatus'* / Buckbrush
  - Lupinus chamissonis* / Dune Bush Lupine
  - Salvia melifera* / Black Sage

**E PLANT GROUPS**  
1" = 10' 9985-01



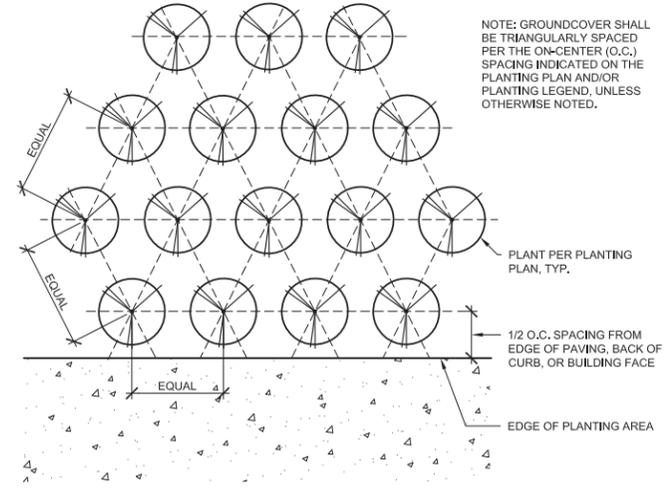
NOTES:  
1. WEED FABRIC SHALL BE USED ON ALL PLANTINGS WITHIN 50 FEET OF WETLANDS, E.G. POND, CREEK, MARSH ETC., OR OTHER AREAS WHERE THE PRE-EMERGENT HERBICIDE MANUFACTURER SPECIFIES RESTRICTIONS ON USE, UNLESS OTHERWISE SPECIFIED IN THE HABITAT MANAGEMENT PLAN.

**D TREE & SHRUB PLANTING WITH ENCLOSURE**  
1" = 1'-0" INSTALL FOR BRODERSON SITE 329390-01

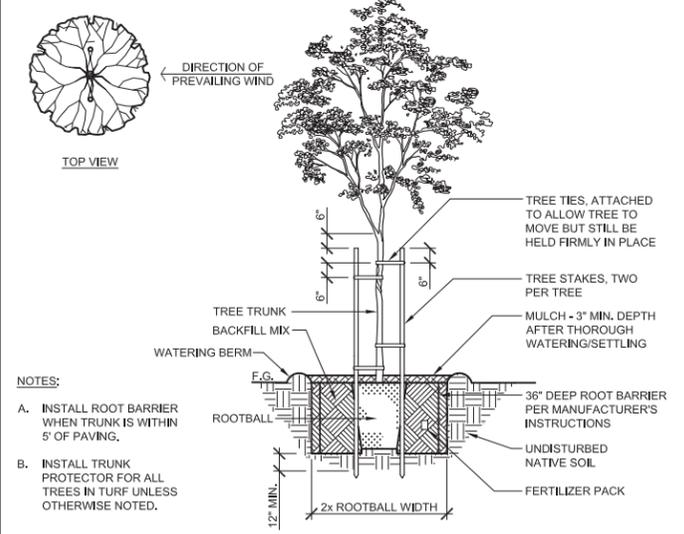


NOTES:  
1. WEED FABRIC SHALL BE USED ON ALL PLANTINGS WITHIN 50 FEET OF WETLANDS, E.G. POND, CREEK, MARSH ETC., OR OTHER AREAS WHERE THE PRE-EMERGENT HERBICIDE MANUFACTURER SPECIFIES RESTRICTIONS ON USE, UNLESS OTHERWISE SPECIFIED IN THE HABITAT MANAGEMENT PLAN.

**B SHRUB PLANTING WITH WIRE BASKET**  
1" = 1'-0" INSTALL FOR ALL PUMP STATION APPLICATIONS 329333-10



**C GROUNDCOVER SPACING**  
1 1/2" = 1'-0" INSTALL FOR ALL PUMP STATION APPLICATIONS 329333-01



NOTES:  
A. INSTALL ROOT BARRIER WHEN TRUNK IS WITHIN 5' OF PAVING.  
B. INSTALL TRUNK PROTECTOR FOR ALL TREES IN TURF UNLESS OTHERWISE NOTED.

**A TREE PLANTING WITH WOOD STAKING**  
1/2" = 1'-0" INSTALL FOR ALL PUMP STATION APPLICATIONS 329343-05

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B.M.O.  
DRAWN BY: C.D.  
CHECKED BY: T.K.  
DATE: April, 2012

**CDM** Camp Dresser & McKee Inc.  
2295 GATEWAY OAKS DRIVE  
SUITE 240  
SACRAMENTO, CA 95833  
Tel (916) 567-9900  
Fax (916) 564-5016



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

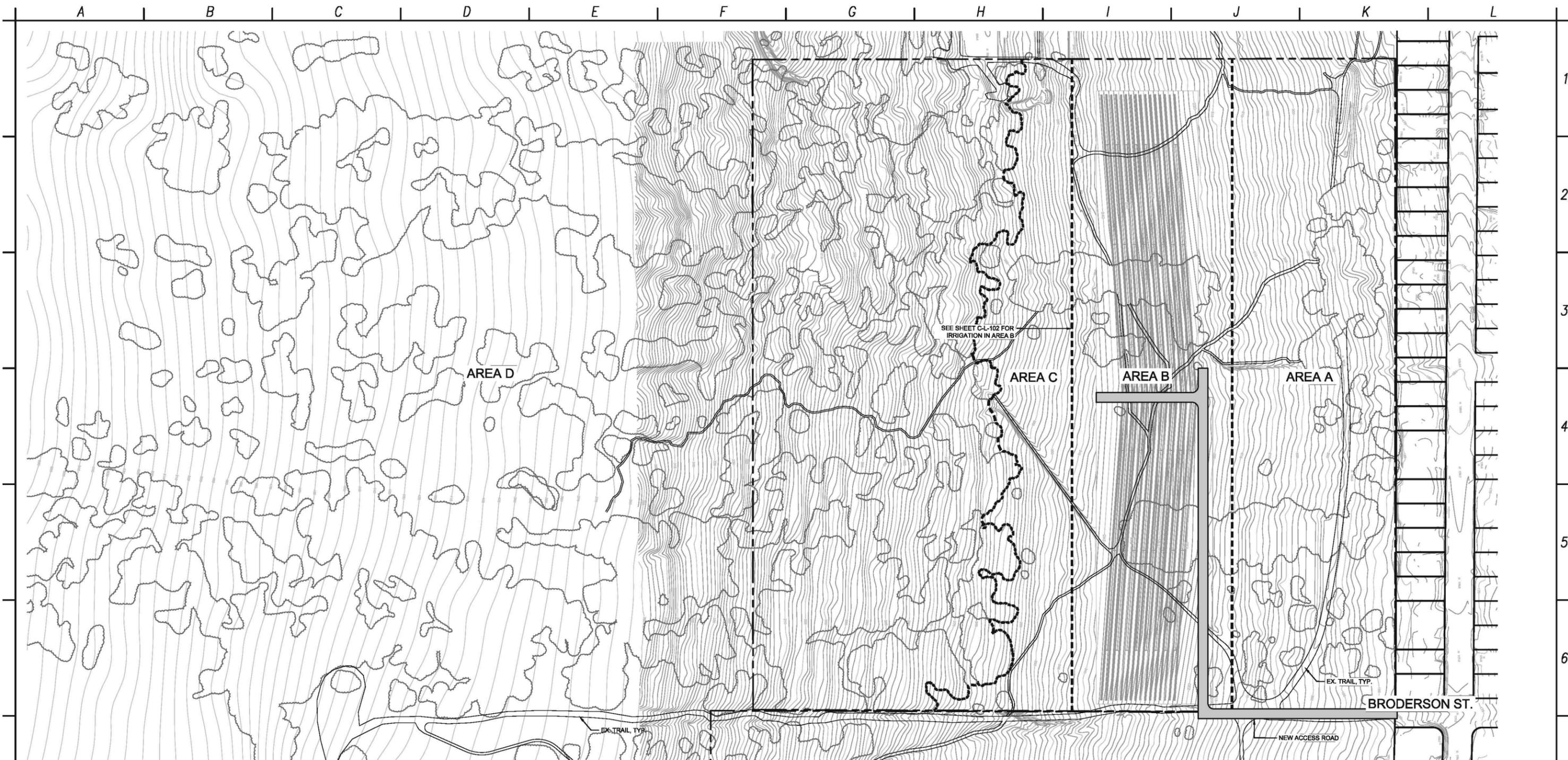


**rrm design group**  
creating environments people enjoy

**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  
**PLANTING DETAILS**

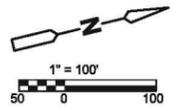
PROJECT NO. 2011080  
FILE NAME:  
**SHEET NO.**  
C-L-003



**IRRIGATION NOTES**

The following Irrigation Notes are conditions set forth within the Habitat Management Plan for the Los Osos Wastewater Project (SWCA Environmental Consulting). The Contractor shall obtain and review the entire Habitat Management Plan prior to bidding the project to insure proper conformance.

- AREA A:** (10.30 acres) No Irrigation Work in this Area.
- AREA B:** (10.28 acres) See Sheet C-L-207 for Irrigation in this Area.
- AREA C:** (4.59 acres) No Irrigation Work in this Area.
- AREA D:** (4.59 acres) No Irrigation Work in this Area.



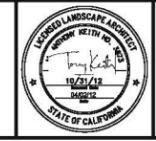
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B.M.Q.  
 DRAWN BY: C.D.  
 CHECKED BY: T.K.  
 DATE: April, 2012

**CDM** Camp Dresser & McKee Inc.  
 2295 GATEWAY OAKS DRIVE  
 SUITE 240  
 SACRAMENTO, CA 95833  
 Tel (916) 567-9900  
 Fax (916) 564-5016



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



**firm design group**  
 creating environments people enjoy®

**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  
 BRODERSON EFFLUENT DISPOSAL SITE  
 IRRIGATION PLAN

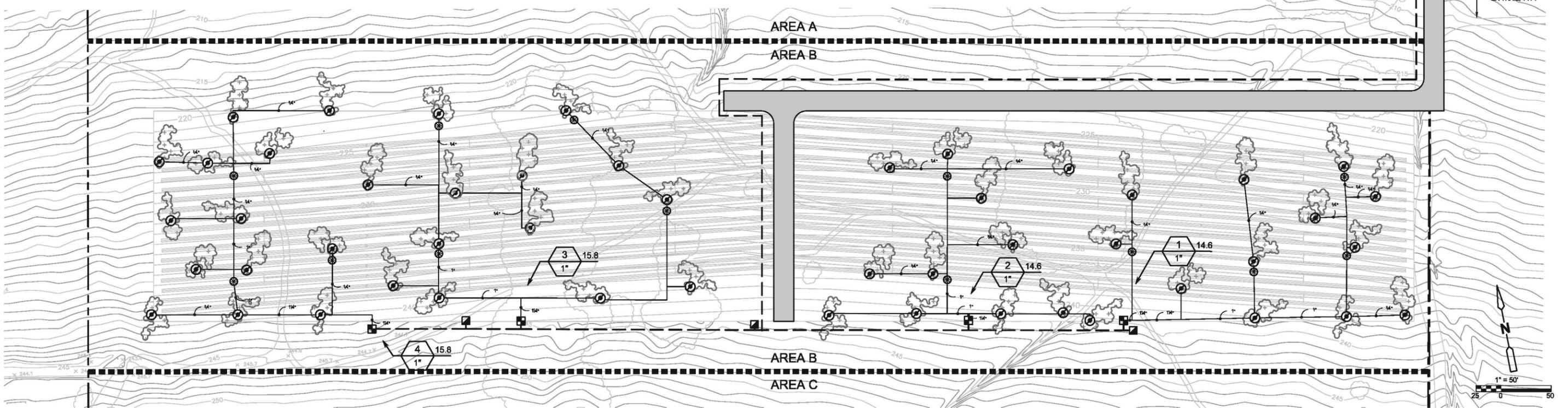
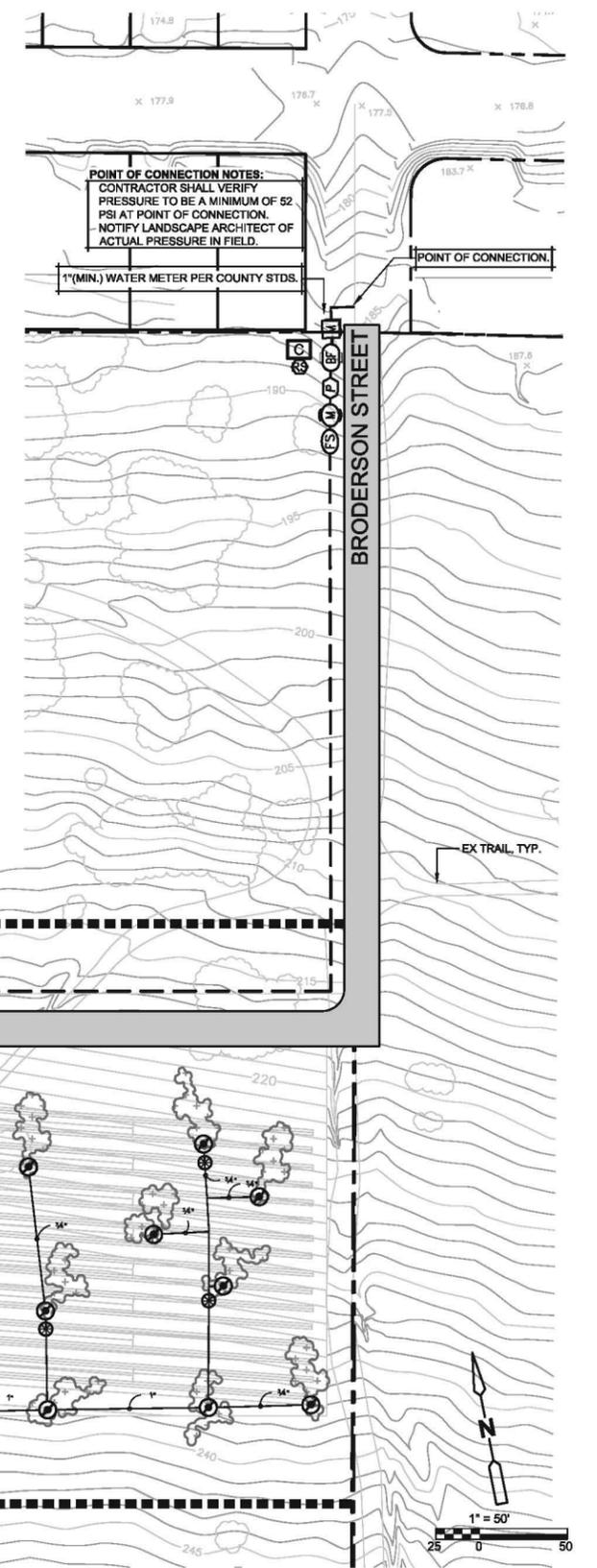
PROJECT NO. 2011080  
 FILE NAME:  
**SHEET NO.**  
**C-L-101**

# IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL	
	Rain Bird XZC-LF-100-PRF Drip Control Kit, 1" Low Flow valve, 3/4" pressure regulating RBY filter and 30psi pressure regulator.	D/C-L-001	Toro TWRFS Wireless Rain/Freeze Sensor Transmitter and Receiver. Mount Sensor Transmitter as noted or approved, mount Sensor Receiver next to the Irrigation Controller as noted or approved, use controller power or optional transformer. Adjust shutoff points.
	Pipe Transition Point	C/C-L-002	Toro Flow Sensor TFS-100
	Area to Receive Drip Emitters Rain Bird Xer-Bug XB Single outlet pressure compensating drip emitter, barbed inlet, Blue=0.5gph, Black=1.0gph, Red=2.0gph. Emitter Notes: 1 gal plant to receive 1 1.0 GPH emitter. 5 gal plant to receive 2 1.0 GPH emitters. 15 gal plant to receive 1 2.0 GPH emitter.	F/C-L-001	Rain Bird Booster Pump 5 HP 220V SINGLE PHASE, VFD PUMP
	Rain Bird 44LRC 1" Quick Coupler Valve, two piece body, locking cover	C/C-L-001	Water Meter 1-1/2" (Broderon POC) Assumed Pressure
	Superior 3200 1-1/2" Normally closed, solid brass construction		Irrigation Lateral Line: PVC Schedule 40 PVC Schedule 40 irrigation pipe. Only lateral transition pipe sizes 1" and above are indicated on the plan, with all others being 3/4" in size.
	Febco 825Y 1-1/2" Reduced Pressure Backflow Preventer	A/C-L-001	Irrigation Mainline: PVC Schedule 40
	Toro TMC-212-OD Remote Valve Controller, 4-Station, Outdoor	G/C-L-001	Valve Callout # - Valve Number # - Valve Flow # - Valve Size

# IRRIGATION NOTES

- IRRIGATION PLAN IS DIAGRAMMATIC. FINAL LOCATION OF PIPING WILL BE DETERMINED AT THE TIME OF INSTALLATION. MAINLINE AND LATERALS SHALL BE PLACED IN THE SAME TRENCH WHEN POSSIBLE. ALL Q.C. VALVES ARE TO BE LOCATED 12" FROM SIDEWALKS, CURBS, ASPHALT & CONCRETE SURFACES.
- ALL EQUIPMENT REQUIRED BUT NOT SPECIFIED ON THE DRAWING, TO COMPLETE THE WORK, SHALL BE PROVIDED BY THE IRRIGATION CONTRACTOR.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND/OR SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE POWER TO CONTROLLERS AND DEDICATE ONE (1) 20 AMP BREAKER FOR EACH CONTROLLER. THE AUTHORIZED REPRESENTATIVE SHALL REVIEW CONTROLLER LOCATIONS PRIOR TO INSTALLATION. 120 VOLT SERVICE AND HOOK-UP TO THE CONTROLLER SHALL BE COMPLETED BY A LICENSED ELECTRICAL CONTRACTOR. THIS COST IS TO BE A PART OF THE LANDSCAPE CONTRACTOR'S BID.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND SITE CONDITIONS PRIOR TO BEGINNING WORK. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH THE WORK IN QUESTION.
- DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO EXPENSE TO THE AUTHORIZED REPRESENTATIVE.
- SPLICING OF 24 VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPLICE. LABEL ALL WIRES W/ WATERPROOF MARKERS AT ALL SPLICES AND VALVE MANIFOLDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL MATERIAL APPEARING ON PLAN.
- CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO THE IRRIGATION SYSTEM FOLLOWING A PRECIPITATION TEST PER THE AUTHORIZED REPRESENTATIVE. ADJUSTMENTS SHALL INCLUDE BUT WILL NOT BE LIMITED TO: DRIP LINE RELOCATION, CHANGING/ADDING EMITTERS, ADJUSTING NOZZLES IN ORDER TO PROVIDE ADEQUATE WATER COVERAGE FOR PLANT MATERIAL AS DETERMINED BY THE AUTHORIZED REPRESENTATIVE.
- CONTRACTOR SHALL NOT INSTALL ANY PLANTING UNTIL THE FOLLOWING ARE COMPLETED: 1. THE IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL. 2. HYDROSTATIC PRESSURE TESTS SHALL BE PERFORMED ON MAIN AND LATERAL LINES. 3. ALL ZONES SHALL PASS A COVERAGE TEST. 4. CONTROLLERS SHALL BE FULLY OPERATIONAL.
- WATER METER SIZES PROVIDED CONSTITUTE THE MINIMUM SIZE REQUIRED FOR LANDSCAPE IRRIGATION PURPOSES. IF CONFLICTS OCCUR BETWEEN THESE PLANS AND CIVIL PLANS, THE LARGER METER SIZE SHALL PREVAIL.
- IRRIGATION DRILINE AND LATERAL LAYOUT PROVIDED BELOW IS SCHEMATIC AND WILL VARY IN FIELD BASED ON ACTUAL LOCATION OF PLANT GROUPINGS. MAINLINE AND VALVE LOCATIONS SHALL BE INSTALLED AS SHOWN.
- INSTALL CHECK VALVE ON LATERALS AS SHOWN AND AT EVERY 5 FT IN ELEVATION DROP. LINE SIZE.



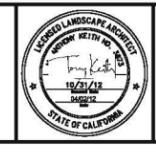
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B.M.O.  
 DRAWN BY: C.D.  
 CHECKED BY: T.K.  
 DATE: April, 2012

**CDM** Camp Dresser & McKee Inc.  
 2295 GATEWAY OAKS DRIVE  
 SUITE 240  
 SACRAMENTO, CA 95833  
 Tel (916) 567-9900  
 Fax (916) 564-5016



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

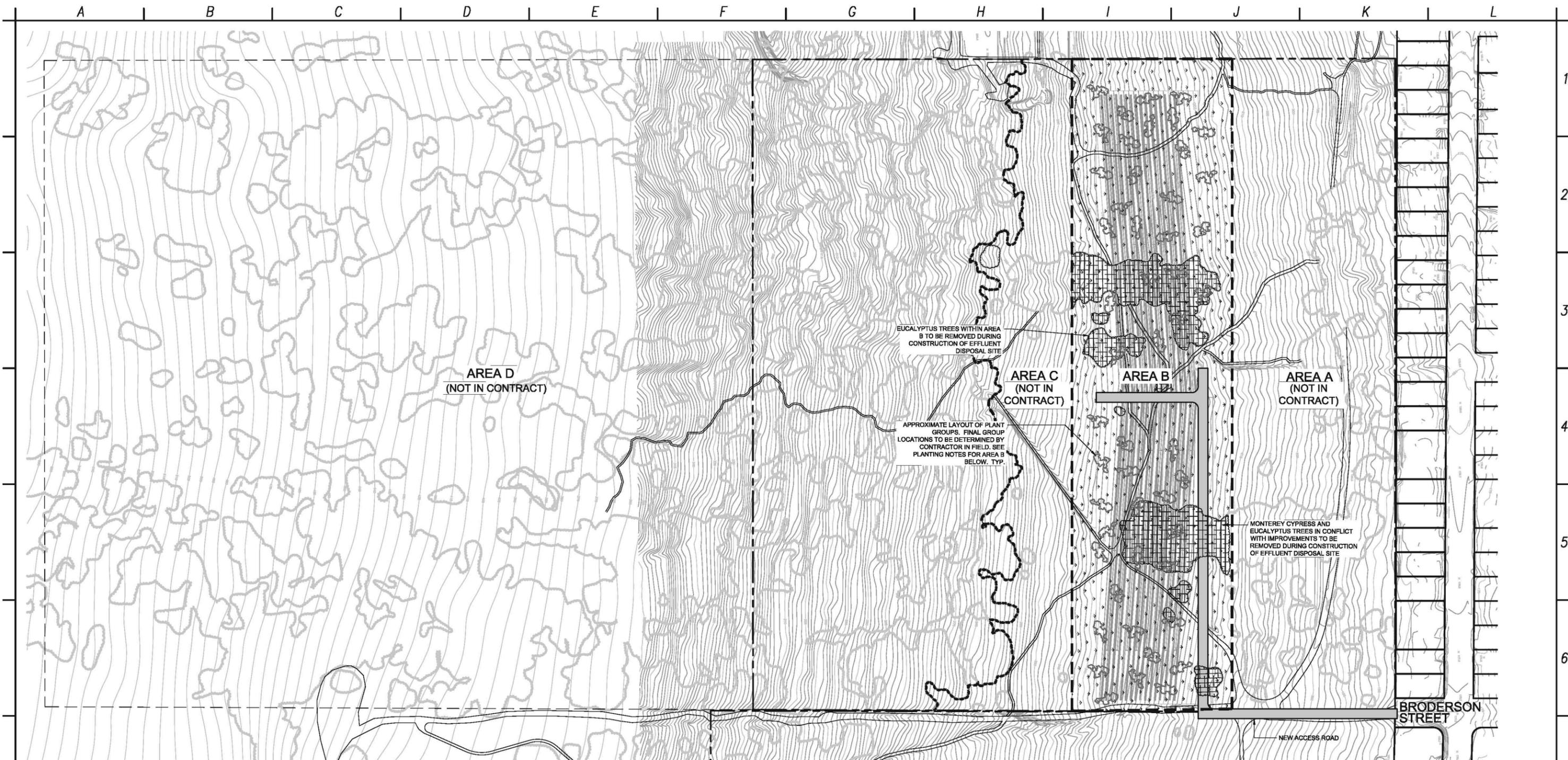


**rrm design group**  
 creating environments people enjoy

**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  
 BRODERSON EFFLUENT DISPOSAL SITE  
 IRRIGATION PLAN

PROJECT NO. 2011080  
 FILE NAME:  
 SHEET NO.  
 C-L-102



**PLANTING NOTES**

The following Planting Notes are conditions set forth within the Habitat Management Plan for the Los Osos Wastewater Project (SWCA Environmental Consulting). The Contractor shall obtain and review the entire Habitat Management Plan prior to bidding the project to insure proper conformance.

**AREA A:** (10.30 acres) Not In Contract

**AREA B:** (10.28 acres) Much of the existing vegetation in this area will be disturbed during construction. In areas where Veldt grasses & non-native invasive species remain post finish grading, the Contractor shall apply grass specific herbicide.

Post finish grading and weed abatement, the Contractor shall apply Seed Mix 3 to this area. Additionally, the Contractor shall install the following container plants in approximately 50 groups (30 plants per group) spread out across the overall area. Each group shall consist of approximately six of each species. See Detail E, Sheet C-L-003 for a typical grouping layout of plant material.

**AREA B CONTAINER PLANT LIST**

Botanical Name / Common Name	Container Size	Quantity	Detail
Artemisia californica / California Sage	1 Gal.	300	D/C-L-003
Baccharis pilularis / Coyote Bush	1 Gal.	300	D/C-L-003
Ceanothus cuneatus 'cuneatus' / Buckbrush	1 Gal.	300	D/C-L-003
Lupinus chamissonis / Dune Bush Lupine	1 Gal.	300	D/C-L-003
Salvia mellifera / Black Sage	1 Gal.	300	D/C-L-003

**AREA C:** (4.59 acres) Not in Contract

**AREA D:** (54.41 acres) Not in Contract

**SYMBOL LEGEND**

	<b>SEED MIX 3</b> (Approx. 10.28 Acres)	<b>PLS LBS/ AC</b>
	Achillea millefolium / Common Yarrow	2.00
	Artemisia californica / California Sagebrush	0.50
	Baccharis pilularis / Dwarf Coyote Brush	0.05
	Ericameria ericoides / California Goldenbush	1.50
	Eriogonum parvifolium / Cliff Buckwheat	1.50
	Eriophyllum staechadifolium / Coastal Golden Yarrow	1.50
	Helianthemum scoparium / Rustrose	0.50 *
	Isocornia menziesii decumbens / Decumbent Goldenbush	2.00
	Lotus scoparius / California Deer Weed	3.00
	Lupinus chamissonis / Dune Lupine	2.50
	Mimulus aurantiacus / Sticky Monkey Flower	0.02 *
	Salvia mellifera / Black Sage	2.00

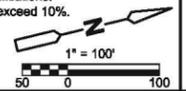
\* Or as much as can be feasibly obtained within the approved collection area



Approximate Area for Tree removals

**GENERAL NOTES**

- All material from tree removals shall be chipped and stockpiled on site for use as mulch where designated on HMP Sites.
- See Technical Specifications for irrigation and establishment.
- Provide trail linkages per the Habitat Management Plan.
- Verify limits of work with Habitat Management Plan prior to construction.
- Seed to be collected from local source/plants. See project Habitat Management Plan.
- Contractor to provide weed abatement per specifications. Maximum allowable tolerance for weeds shall not exceed 10%.



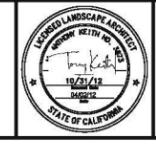
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B.M.O.  
 DRAWN BY: C.D.  
 CHECKED BY: T.K.  
 DATE: April, 2012

**CDM** Camp Dresser & McKee Inc.  
 2295 GATEWAY OAKS DRIVE  
 SUITE 240  
 SACRAMENTO, CA 95833  
 Tel (916) 567-9900  
 Fax (916) 564-5016



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



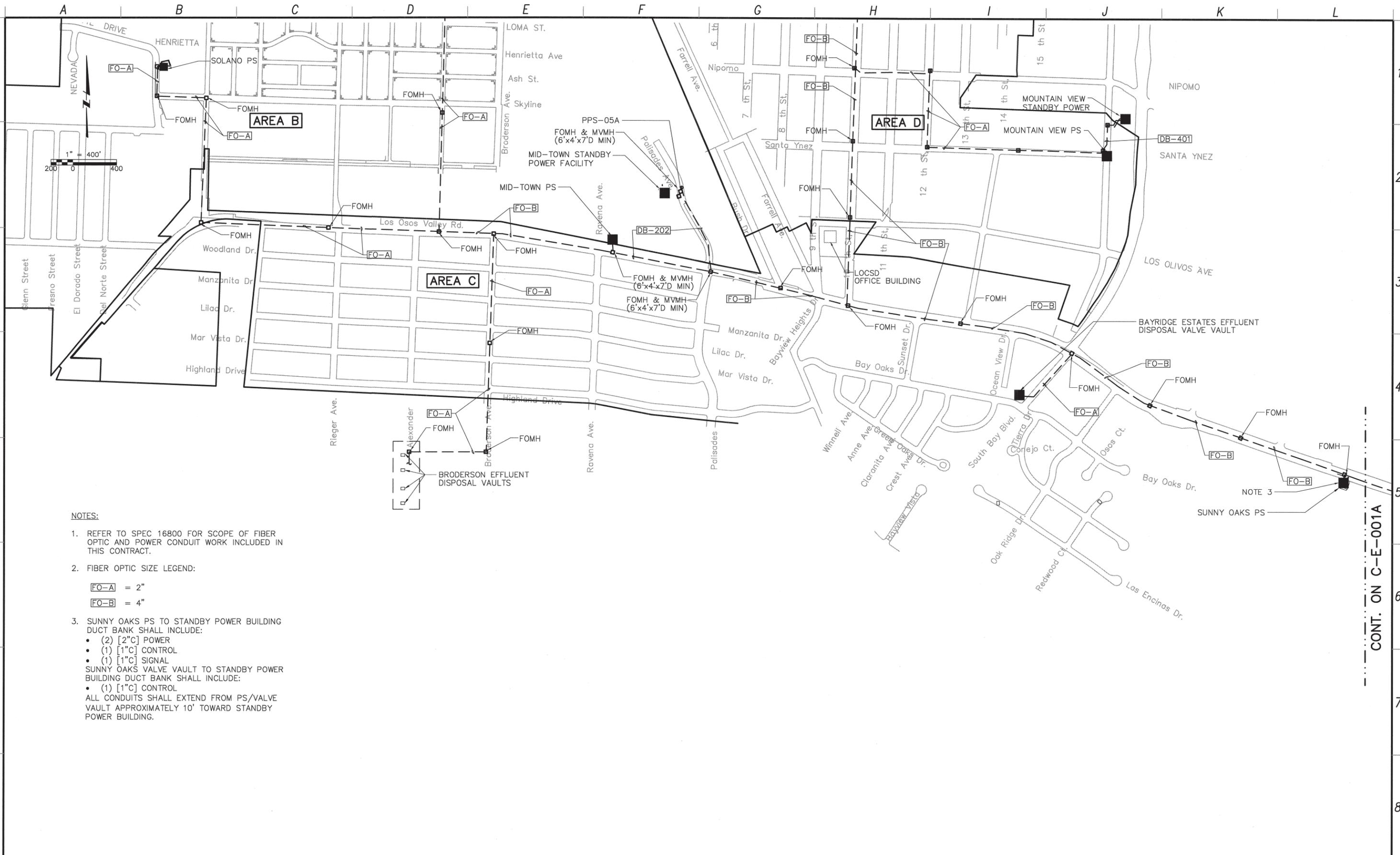
**rrm design group**  
 creating environments people enjoy®

**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  
 BRODERSON EFFLUENT DISPOSAL SITE  
 PLANTING PLAN

PROJECT NO. 2011080  
 FILE NAME:  
 SHEET NO.  
**C-L-103**

©2012 CDM SMITH ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH. REUSE OF DOCUMENTS: THESE DOCUMENTS ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH. PROJECT: LOS OSOS WASTEWATER COLLECTION SYSTEM, AREA C - MIDTOWN-PS, X-PS-E-FO-03



**NOTES:**

1. REFER TO SPEC 16800 FOR SCOPE OF FIBER OPTIC AND POWER CONDUIT WORK INCLUDED IN THIS CONTRACT.
2. FIBER OPTIC SIZE LEGEND:
  - FO-A = 2"
  - FO-B = 4"
3. SUNNY OAKS PS TO STANDBY POWER BUILDING DUCT BANK SHALL INCLUDE:
  - (2) [2"C] POWER
  - (1) [1"C] CONTROL
  - (1) [1"C] SIGNAL
 SUNNY OAKS VALVE VAULT TO STANDBY POWER BUILDING DUCT BANK SHALL INCLUDE:
  - (1) [1"C] CONTROL
 ALL CONDUITS SHALL EXTEND FROM PS/VALVE VAULT APPROXIMATELY 10' TOWARD STANDBY POWER BUILDING.

CONT. ON C-E-001A

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: CAL  
 DRAWN BY: WKT  
 CHECKED BY: GNM  
 DATE: APRIL 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

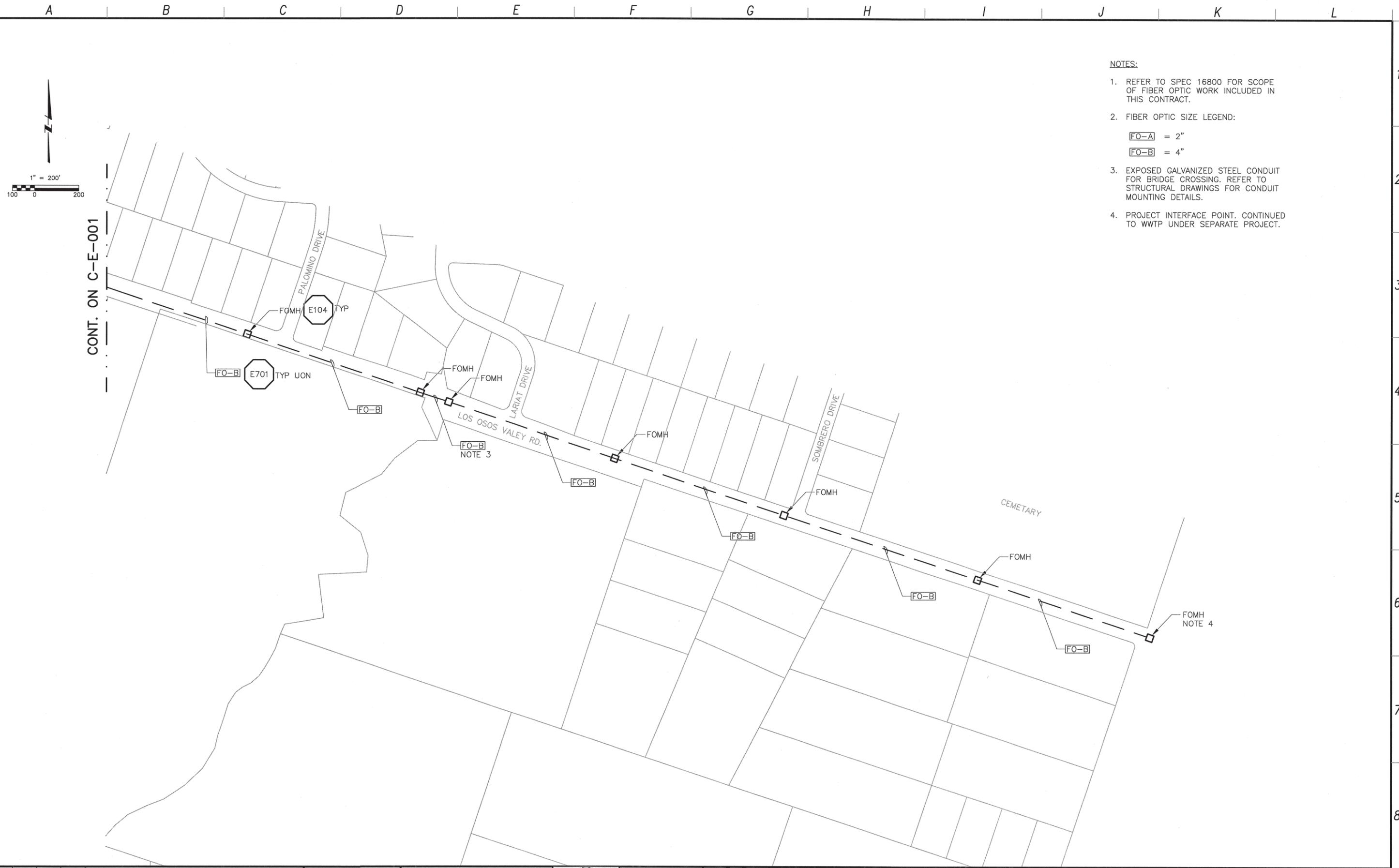


**DIGALERT**  
 DIAL TOLL FREE 1-800-642-2444  
 AT LEAST TWO DAYS BEFORE YOU DIG  
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM  
**ELECTRICAL FIBER OPTIC AND POWER CONDUIT PLAN**  
 AREA C - SHEET 1 OF 2

PROJECT NO. 42502-83120  
 FILE NAME: C-E-001  
 SHEET NO.  
**C-E-001**

©2012 CDM SMITH ALL RIGHTS RESERVED. REUSE OF DOCUMENTS: THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH. N:\ACAD2008\los osos\01-sheets\C-C-ELEC\C-E-001A 04/03/12 13:19 tabbotwk XREFS: x-feet-row, loc\_mdl, LosOsos-bdr, Co-col, FIBER-OPTIC-keyplan, AREA-C-MIDTOWN-PS, X-PS-E-FO-03, X-FEAT-APN



- NOTES:**
- REFER TO SPEC 16800 FOR SCOPE OF FIBER OPTIC WORK INCLUDED IN THIS CONTRACT.
  - FIBER OPTIC SIZE LEGEND:  
 FO-A = 2"  
 FO-B = 4"
  - EXPOSED GALVANIZED STEEL CONDUIT FOR BRIDGE CROSSING. REFER TO STRUCTURAL DRAWINGS FOR CONDUIT MOUNTING DETAILS.
  - PROJECT INTERFACE POINT. CONTINUED TO WWTP UNDER SEPARATE PROJECT.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: CAL  
 DRAWN BY: WKT  
 CHECKED BY: GNM  
 DATE: APRIL 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

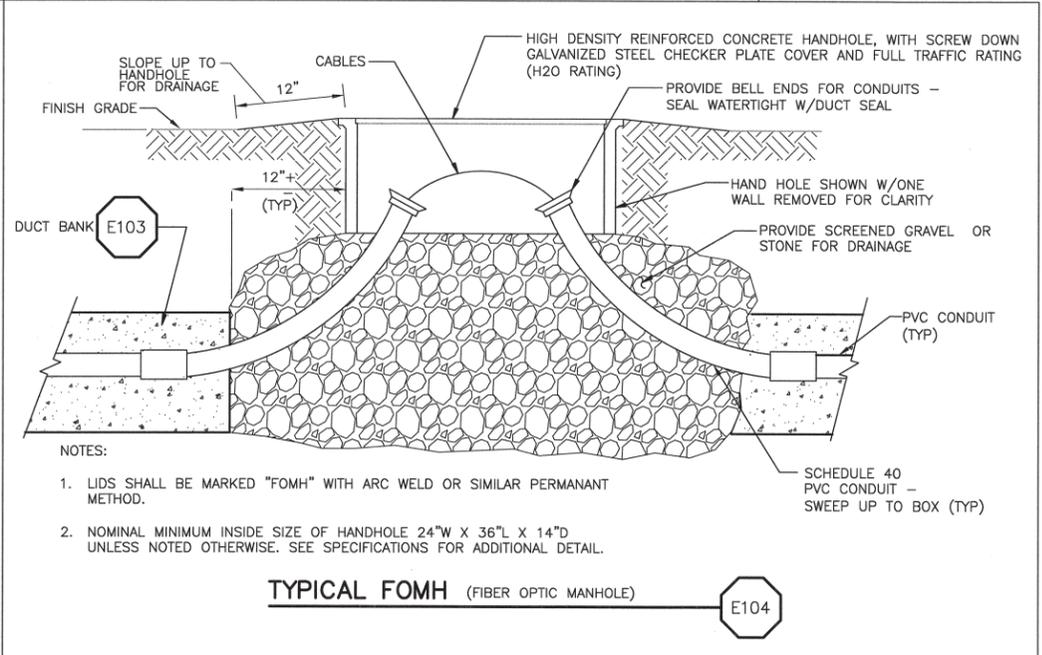
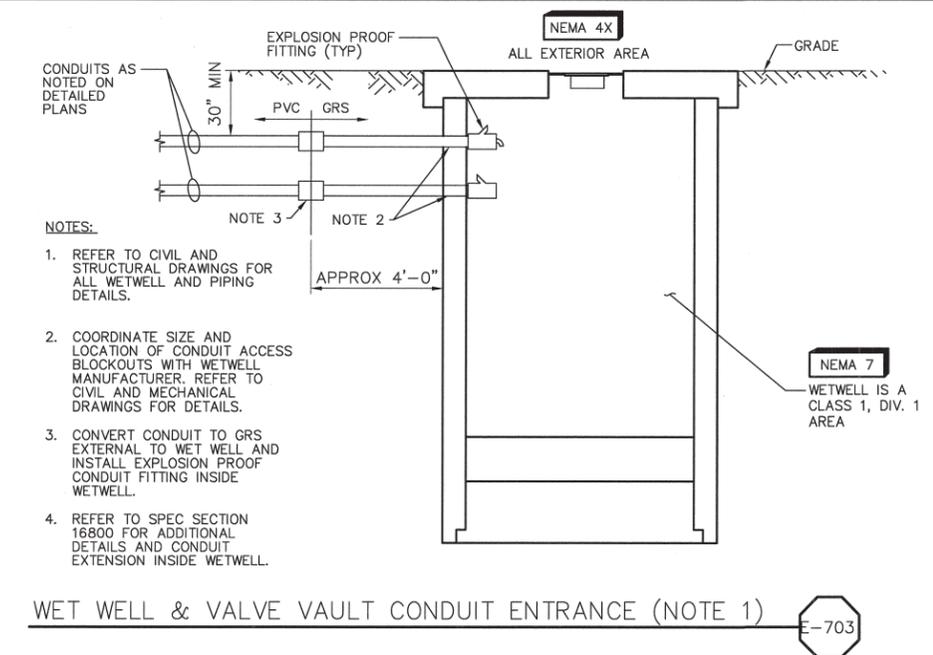
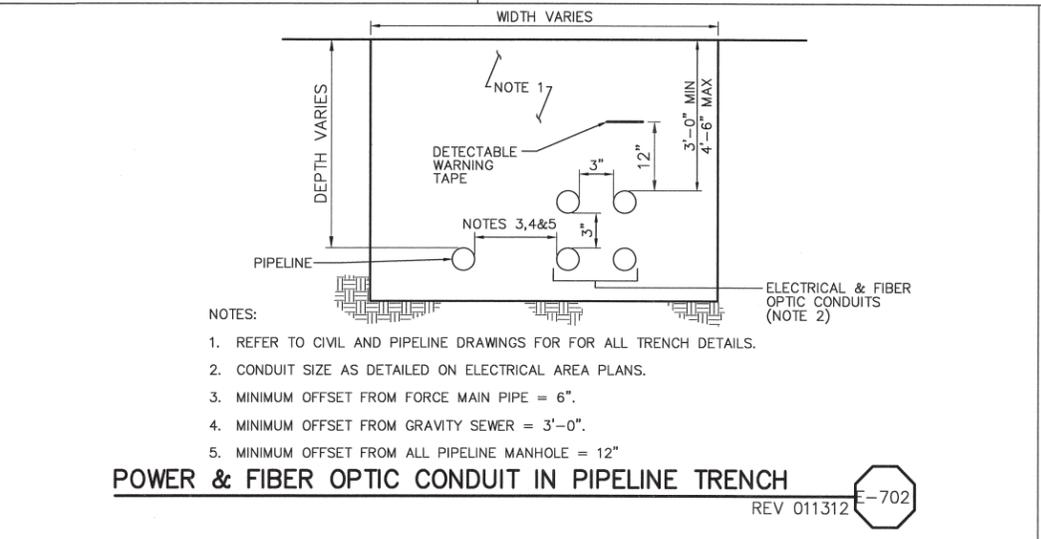
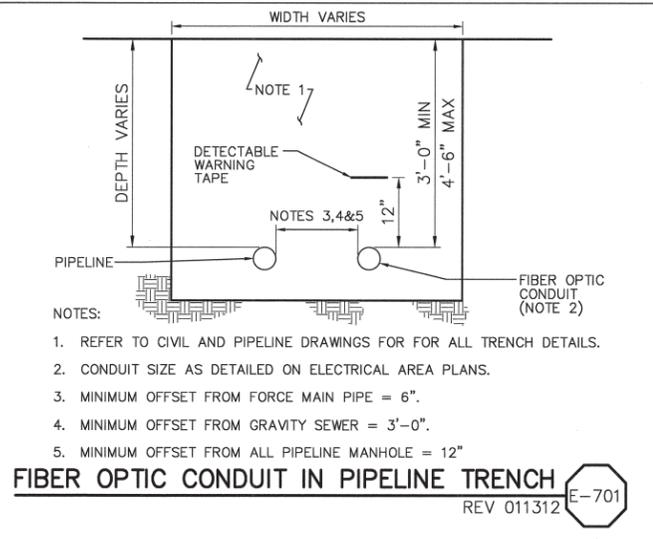
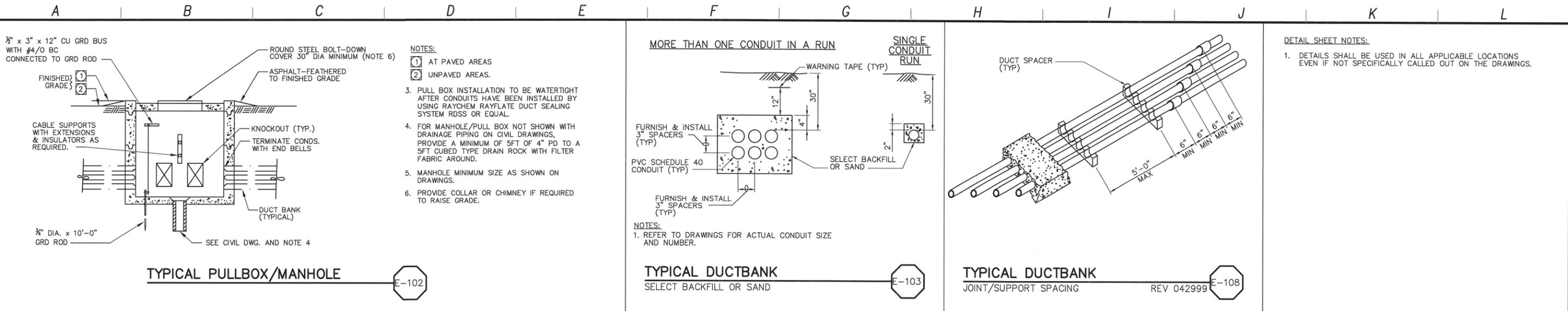


**DIGALERT**  
 DIAL TOLL FREE: 1-800-642-2444  
 AT LEAST TWO DAYS BEFORE YOU DIG  
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM  
**ELECTRICAL FIBER OPTIC AND POWER CONDUIT PLAN**  
 AREA C - SHEET 2 OF 2

PROJECT NO. 42502-83120  
 FILE NAME: C-E-001A  
 SHEET NO.  
**C-E-001A**

©2012 CDM SMITH ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH. REUSE OF DOCUMENTS: N:\VAC02008\Nos osos\01-sheets\C-E-ELEC\C-E-002 04/03/12 13:21 tabotwk XREES: LosOsos-bdr, ELE-STD-DTLS, Cg-co



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: CAL  
 DRAWN BY: JAW  
 CHECKED BY: GNM  
 DATE: APRIL 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  
**ELECTRICAL DETAILS**  
 PROJECT No. 42502-83120  
 FILE NAME: C-E-002  
 SHEET NO.  
**C-E-002**