SANTA BARBARA COUNTY
FLOOD CONTROL AND WATER CONSERVATION DISTRICT

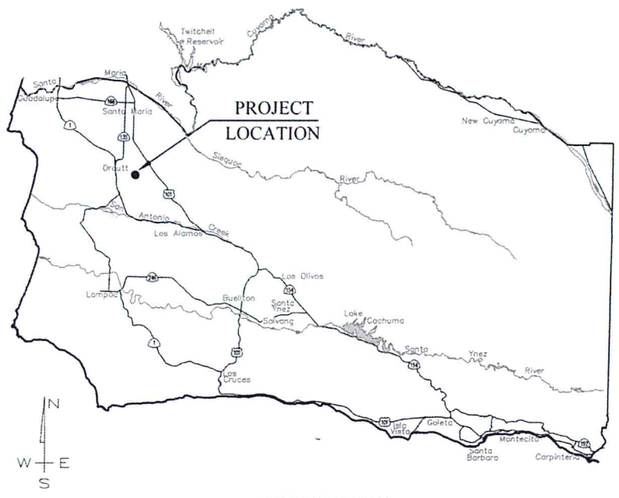
MUD LAKE BASIN
SIPHON IMPROVEMENT PROJECT- PHASE II

OR 8206

IN THE ORCUTT AREA
OF
SANTA BARBARA COUNTY, CALIFORNIA

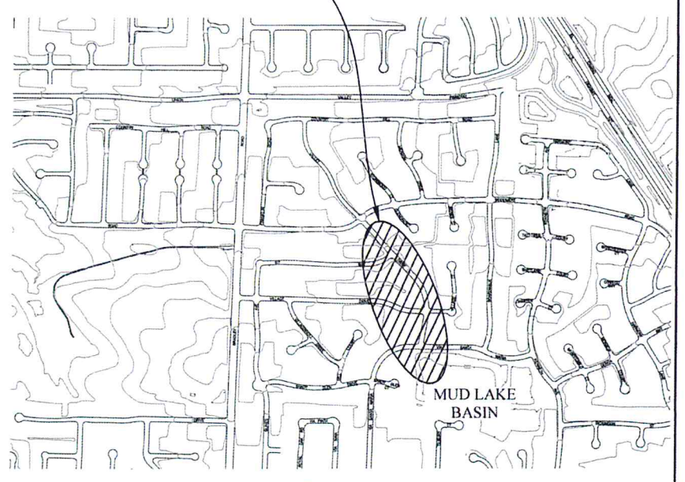
DISTRICT BOARD OF DIRECTORS

FIRST DISTRICT	Salud Carbajal
SECOND DISTRICT	Janet Wolf
THIRD DISTRICT	Doreen Farr
FOURTH DISTRICT	Peter Adam
FIFTH DISTRICT	Steve Lavagnino



VICINITY MAP
No Scale

INDEX TO SHEETS



SITE MAP
No Scale

REVISIONS NO.	DESCRIPTION	DATE	APR

REGISTERED PROFESSIONAL ENGINEER — MATTHEW G. GRIFFIN — No. C 66822 — Exp. 9-30-2014 — CIVIL — STATE OF CALIFORNIA

DESIGNED BY: Matt Griffin 7-25-14 FLOOD CONTROL DESIGN ENGINEER DATE	
REVIEWED BY: Matthew Griffin 7-28-14 FLOOD CONTROL ENGINEERING MANAGER DATE	REVIEWED BY original to be signed MAINTENANCE SUPERINTENDENT DATE
REVIEWED BY original to be signed FLOOD CONTROL DEPUTY DIRECTOR DATE	REVIEWED BY original to be signed ENVIRONMENTAL SERVICES MANAGER DATE

SANTA BARBARA COUNTY
FLOOD CONTROL AND
WATER CONSERVATION DISTRICT
130 E. VICTORIA STREET
SANTA BARBARA, CA 93101
(805) 568-3440

MUD LAKE BASIN
SIPHON IMPROVEMENT PROJECT
PHASE II
AREA OF ORCUTT
SANTA BARBARA COUNTY, CALIFORNIA

TITLE SHEET

DESIGNED BY:	M.G.
DRAWN BY:	O.R.
CHECKED BY:	J.F.

O-1100

SHEET 1 OF 6

Filename: Mud_Lake_Basins_FC_Phase II-HDD.dwg

G:\Water Resources\Flood Control\Design\Civil Design Projects\Mud Lakes Basin\Drawings\5592_OR8206\dwg\HDD-2013\MUD_LAKE_Basins_FC_Phase II-HDD.dwg, 7/25/2014 3:25:36 PM, PWFLoodHPDesignJet T2300 (temporary).pc3

SYMBOL LEGEND

- CONTROL POINT
- EX. CABLE TV BOX (CTV)
- EX. ELECTRIC BOX (EBOX)
- EX. FIRE HYDRANT
- EX. GAS VALVE (GV)
- EX. ELECTRIC LIGHT
- EX. MAILBOX (MB)
- EX. SEWER CLEANOUT
- EX. SEWER MANHOLE (S)
- EX. SIGNAGE
- EX. STORM DRAIN MANHOLE (D)
- EX. TELEPHONE BOX (TBOX)
- EX. BUSH/HEDGE
- EX. TREE
- EX. WATER METER (WM)
- EX. WATER VALVE (WV)

LINETYPE LEGEND

- BOUNDARY RIGHT OF WAY LINE
- CONTOURLINE–MAJOR (465)
- CONTOURLINE–MINOR (471)
- EX. CURB FLOWLINE
- EX. CURB TOP
- EX. DRAINAGE
- EX. DRAINAGE FLOWLINE
- EX. FENCE (CHAINLINK)
- EX. FENCE (WOOD)
- EX. SIDEWALK
- EX. STRUCTURE CONCRETE
- EX. STRUCTURE CONC. FLOWLINE
- EX. STORM DRAIN (SD)
- EX. STRUCTURE CONC. WALL
- EX. UNDERGR. UTILITY ELECTRIC (E)
- EX. UNDERGR. UTILITY GAS (G)
- EX. UNDERGR. UTIL. TELEPHONE (T)
- EX. UNDERGR. UTIL. SEWER FL (S)
- EX. UTILITY OVERHEAD (OH)
- EX. VEGETATION BRUSH
- EX. WATERLINE (W)

EXISTING UTILITY INFORMATION

ALL UNDERGROUND UTILITIES SHOWN ARE PLOTTED BASED ON INFORMATION PROVIDED BY OTHERS, AND ARE APPROXIMATE. OVERHEAD UTILITIES ARE NOT SHOWN. NOTE THAT INDIVIDUAL SERVICE LATERALS AND CONNECTIONS ARE NOT PLOTTED ON THE PROFILE.

THE SANTA BARBARA COUNTY FLOOD CONTROL DISTRICT IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS INFORMATION. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION @ 1–800–422–4133.

UTILITY DISPOSITION NOTE SYMBOLS:

- (O) FACILITIES TO BE REMOVED BY OTHERS
- (R) FACILITIES TO BE RE–LOCATED BY OTHERS TO A LOCATION IN CLOSE PROXIMITY TO THE WORK. NEW FACILITY TO BE PROTECTED IN PLACE BY THE CONTRACTOR.
- (C) FACILITIES TO BE RELOCATED BY CONTRACTOR
- (P) PROTECT EXISTING UTILITY IN PLACE. EXACT HORIZONTAL AND VERTICAL LOCATION UNKNOWN
- (A) ABANDONED UTILITY IN PLACE. INTERFERING PORTIONS TO BE REMOVED BY CONTRACTORS

STANDARD DETAILS AND PLANS LIST

STANDARD NO.	DESCRIPTION
STATE DEPARTMENT OF TRANSPORTATION STANDARD PLANS (2010 EDITION)	
	The Standard Plan sheets applicable to this contract include, but are not limited to those indicated below. The Revised Standard Plans (RSP) and New Standard Plans (NSP) which apply are attached to the contract.
A10A	ABBREVIATIONS
A10B	ABBREVIATIONS
A10C	LINES AND SYMBOLS
A10D	LINES AND SYMBOLS
A10E	LINES AND SYMBOLS
D75B	CONCRETE PIPE INLETS
D75C	PIPE INLETS LADDER AND TRASH RACK DETAILS
T13	TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS
STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	
223–2	HOUSE CONNECTION REMODELING
321–2	MANHOLE – PIPE TO PIPE (ONE OR BOTH MAIN LINE ID'S 33" OR SMALLER
324–2	MANHOLE SHAFT WITH ECCENTRIC REDUCER
380–4	CONCRETE COLLAR RCP 12" THROUGH 72"
630–3	24" MANHOLE FRAME AND COVER
635–3	STEEL STEP
SANTA BARBARA COUNTY DEPARTMENT OF PUBLIC WORKS TRANSPORTATION DIVISION STANDARDS	
3–080	STORM DRAIN MANHOLES
CITY OF SANTA MARIA STANDARD PLANS	
B–367	VALVE STEM EXTENSION
W–21A	VALVE BOX & RISER

ABBREVIATIONS

ACP	ASBESTOS CEMENT PIPE	IP	IRON PIPE
APN	ASSESSORS PARCEL NUMBER	IN	INCH
APWA	AMERICAN PUBLIC WORKS ASSOC.	JS	JUNCTION STRUCTURE
AT	ARCHITRCTURAL TEXTURE	LOL	LAYOUT LINE
BLDG	BUILDING	MJ	MECHANICAL JOINT
BOT	BOTTOM	n	MANNING'S COEFFICIENT
BW	BOTH WAYS	N	NORTH OR NORTHING
CFS	CUBIC FEET PER SECOND	NTS	NOT TO SCALE
CL or C/L	CENTER LINE	OC	ON CENTER
CALTRANS	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	PK	PK NAIL
		Q	FLOW VELOCITY
COUNTY	COUNTY OF SANTA BARBARA	R1	RECORD PER BOOK NN, PAGE NN OF MAPS
CMP	CORRUGATED METAL PIPE		
CP	CONTROL POINT	S	SEWER OR SLOPE OR SOUTH
CTV	CABLE TELEVISION	SDMH	STORM DRAIN MANHOLE
DI	DUCTILE IRON OR DROP INLET	SH	SHINER
DW	DRIVEWAY	SPK	SPIKE
E	EAST OR EASTING	S/W	SIDEWALK
EG	EXISTING GROUND	TW or tw	TOP OF WALL
EGL	ENERGY GRADE LINE	TCE	TEMPORARY CONSTRUCTION EASEMENT
EL	ELEVATION	TBM	TEMPORARY BENCH MARK
EP	EDGE OF PAVEMENT	TSW	TOP OF SIDEWALK
ELEC	ELECTRIC	TP	TOP OF PAVEMENT
FD	FOUND	W	WEST
FT	FEET	W or WL	WATER LINE
g	GRAVITATIONAL CONSTANT	WF	WALL FACE
G	GAS LINE	WWF	WELDED WIRE FABRIC
GB	GRADE BREAK	V	VELOCITY
HDD	HORIZONTAL DIRECTIONAL DRILLING	VB	VALVE BOX
HDPE	HIGH DENSITY POLYETHYLENE		
HGL	HYDRAULIC GRADE LINE		

HORIZONTAL AND VERTICAL CONTROL

Surveyor's Notes:
Horizontal positions were derived from GPS observation holding Continuously Operating Reference Stations (CORS) Vandenberg Airforce Base (VNDP), Cuyama Valley High School (CUHS), Figueroa Station (FGST) and Olga Reed Elementary School (ORES) fixed as shown on Record of Survey book 171 pages 22 and 23 based on California Coordinate System 1983 (CCS83) 1991.35 epoch.

Elevations (orthometric heights) were derived by GPS observation and converted to the North American Vertical Datum 1988 (NAVD88) using the National Geodetic Survey's program GEOID99 holding Continuously Operating Reference Stations (CORS) Vandenberg Airforce Base (VNDP), Cuyama Valley High School (CUHS), Figueroa Station (FGST) and Olga Reed Elementary School (ORES) fixed as shown on Record of Survey book 171 pages 22 and 23.

Benchmark Note:
Local Benchmark CP2 held at 440.39

All coordinate values shown are grid values. All distances are based on the U.S. Survey Foot (one survey foot = 1200/3937 meters).

Basis of Bearings:
The Basis of Bearing is between CORS stations ORES and VNDP measured and record, S58°11'32"W, 121451.60', per RS 171/22.
ORES N: 2099097.30 E: 5877193.97
VNDP N: 2035083.85 E: 5773981.71

Ground to Grid Factors
Convergence Factor: –01°22'43.24478" Scale Factor: 0.999924632
Combined Factor: 0.999903682 Factors Calculated for: CP3

Boundary Note:
Right of Way boundary calculated per MB121/29–34 and MB126/85–92; fit to monuments CP5 and Cp13 for graphical purposes only.

CONTROL POINT TABLE

CONTROL POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION	RECORD
CP1	2150708.010	5836347.960	445.820	FD P–K NAIL	S148
CP2	2151048.110	5836368.100	440.385	FD P–K NAIL	S148
CP3	2151203.490	5836332.360	438.030	FD 3" BRASS DISC	S148
CP4	2149023.130	5837750.158	472.582	FD N&T "LS3485"	BK121/29–34
CP5	2149022.283	5837850.374	472.418	FD N&T "LS3485"	BK121/29–34
CP6	2149267.063	5837895.643	471.884	FD N&T "LS3485"	BK121/29–34
CP7	2149614.877	5837789.190	470.452	FD N&T "LS3485"	BK121/29–34
CP8	2149801.559	5837605.597	465.174	FD N&T "LS3485"	BK121/29–34
CP9	2149864.293	5837543.856	459.705	FD 1/2" IP W/TAG "LS3146"	BK121/29–34
CP10	2149885.706	5837522.767	457.956	FD N&T "LS4597"	BK126/85–92
CP11	2149945.635	5837470.852	454.053	FD N&T "LS4597"	BK126/85–92
CP12	2150010.826	5837413.667	451.353	FD N&T "LS4597"	BK126/85–92
CP13	2150091.881	5837332.176	450.075	FD N&T "LS4597"	BK126/85–92

UNAUTHORIZED CHANGES OR USES:
THE SANTA BARBARA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT AND ITS EMPLOYEES WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE PRESENTED IN WRITING TO THE DISTRICT AND APPROVED IN WRITING BY THE DISTRICT PRIOR TO IMPLEMENTATION OF ANY SUCH CHANGE OR USE.

REVISIONS NO.	DESCRIPTION	DATE	APR

REGISTERED PROFESSIONAL ENGINEER — MATTHEW G. GRIFFIN — No. C 68822 — Exp. 9-30-2014 — CIVIL — STATE OF CALIFORNIA

DESIGNED BY: Matt Griffin 7/28/14
FLOOD CONTROL DESIGN ENGINEER DATE

SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
130 E. VICTORIA STREET
SANTA BARBARA, CA 93101
(805) 568-3440

MUD LAKE BASIN
SIPHON IMPROVEMENT PROJECT
PHASE II
AREA OF ORCUTT
SANTA BARBARA COUNTY, CALIFORNIA

GENERAL INFORMATION

DESIGNED BY: M.G.
DRAWN BY: O.R.
CHECKED BY: J.F.

O-1100
SHEET 2 OF 6
Filename: Mud_Lake_Basins_FC_Phase II-HDD.dwg

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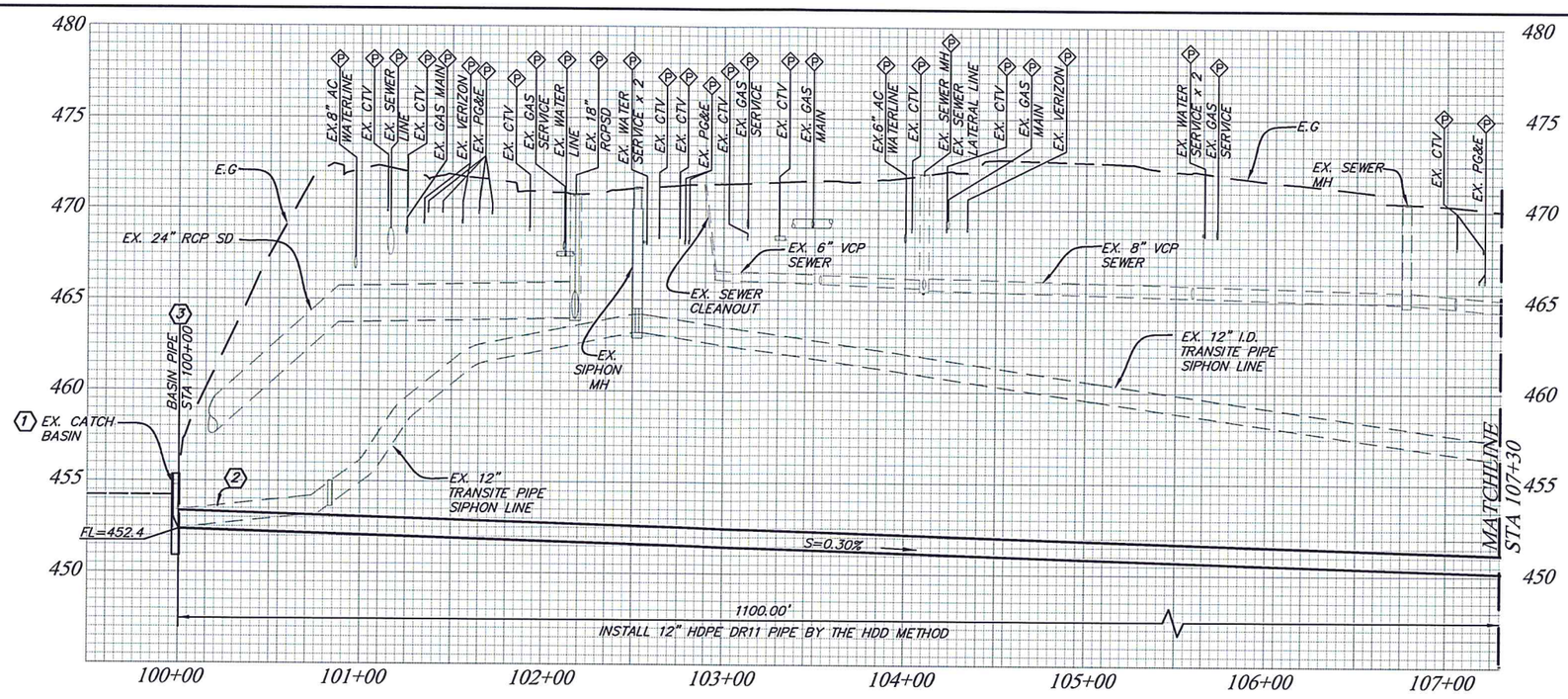
CONSTRUCTION NOTES:

1. Remove existing structure.
2. Remove interfering portions of ex. transite pipe siphon line, as necessary to construct proposed improvements. Plug remaining siphon line in place with 12" thick, min concrete and abandon in place.
3. Construct Basin Outlet Structure per Detail A on sheet 5.

WARNING
Transite pipe contains abestos fibers. Handling and disposing of transite pipe shall comply with all applicable laws and regulations.

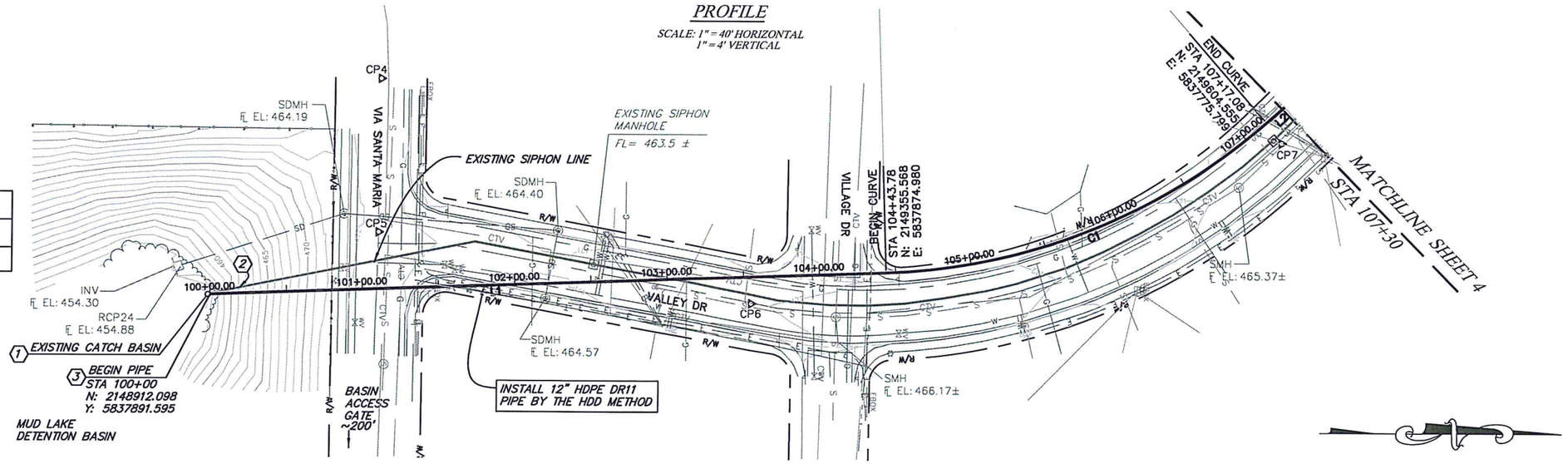


PROFILE

SCALE: 1" = 40' HORIZONTAL
1" = 4' VERTICAL

HDPE PIPE LINE TABLE		
LINE	BEARING	LENGTH
L1	N2°08'44.35"W	443.781'
L2	N41°17'34.17"W	561.742'

HDPE CURVE LINE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	273.299'	400'	39°8'49.91"



PLAN

SCALE: 1" = 40'

GRAPHIC SCALE

1" 0 1" 2" 4"

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NOT ALL SERVICE LINES (WATER, SEWER) SHOWN ON PROFILE.

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REGISTERED PROFESSIONAL ENGINEER MATTHEW G. GRIFFIN No. C 66822 Exp. 9-30-2014 CIVIL STATE OF CALIFORNIA

DESIGNED BY: Matt Griffin 7/28/14
FLOOD CONTROL DESIGN ENGINEER DATE

SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
130 E. VICTORIA STREET
SANTA BARBARA, CA 93101
(805) 568-3440

MUD LAKE BASIN
SIPHON IMPROVEMENT PROJECT
PHASE II
AREA OF ORCUTT
SANTA BARBARA COUNTY, CALIFORNIA

PLAN & PROFILE

DESIGNED BY:	M.G.
DRAWN BY:	O.R
CHECKED BY:	J.F.

O-1100

SHEET 3 OF 6

Filename: Mud_Lake_Basins_FC_Phase II-HDD.dwg

CONSTRUCTION NOTES:

(2) Remove interfering portions of ex. transite pipe siphon line, as necessary to construct proposed improvements. Plug remaining siphon line in place with 12" thick, min concrete and abandon in place.

(4) Pothole existing transite pipe storm drain to determine existing FL Elev. prior to HDPE pipe construction.

(5) Remove existing transite pipe storm drain.

(6) Construct Manhole Pipe to Pipe (one or both Mainline IDs 33" or smaller) per SPPWC 321-2 and Co. of SB Standard Detail 3-080 (where Note 2 shall not apply).

(7) Install Gate Valve with Valve Stem Extension and Valve Box & Riser per City of Santa Maria Standard Plans B-367 and WA-21A, respectively.

(8) Construct Concrete Collar Connection to existing pipe per SPPWC 380-4

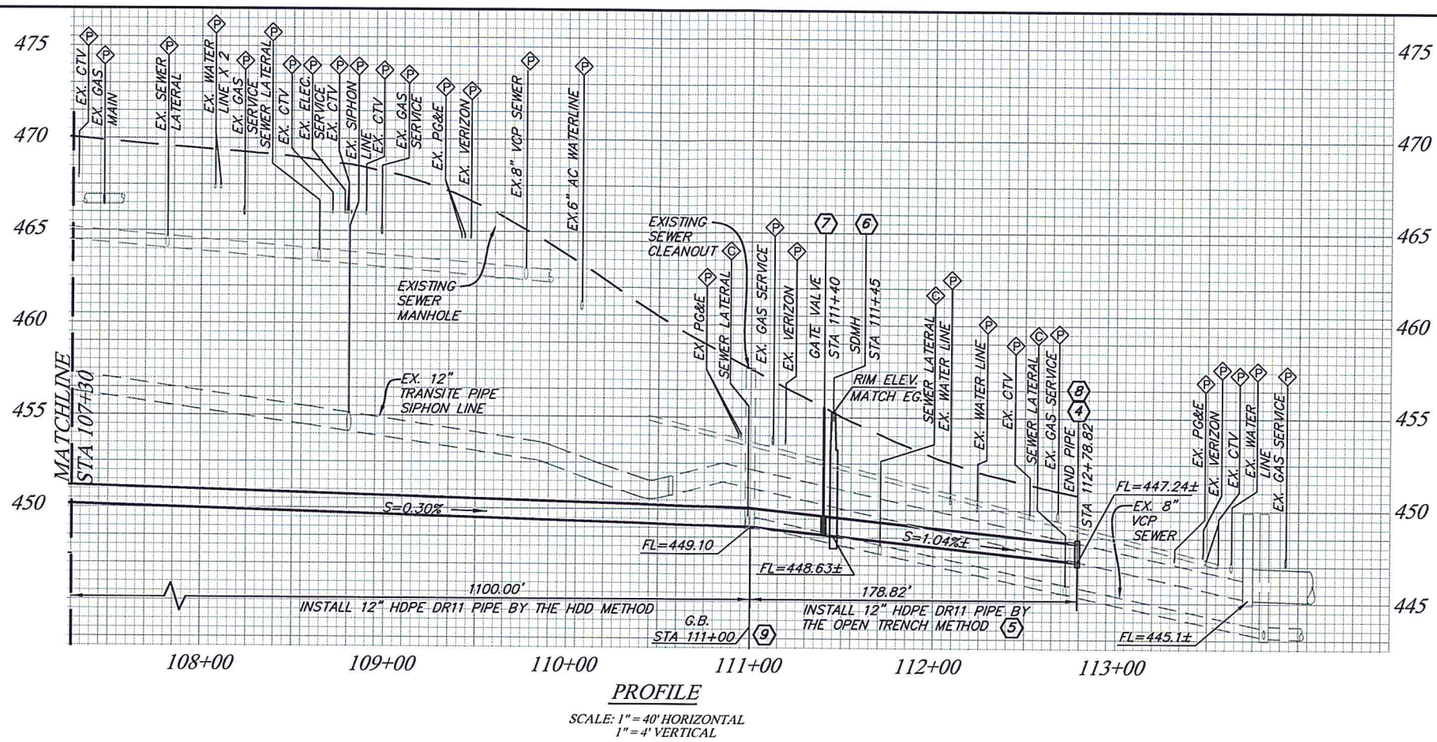
(9) Roping (R=400' min) of HDPE pipe at GB is permissible if Δ =1° or less. HDPE pipe within open trench method may be installed at S=0.3% min in order to account for Elevation differences due to HDD installation tolerances.

(10) Place asphaltic emulsion (Fog Seal Coat) 2' beyond longitudinal end of trench cuts, EP to EP.

(11) Reconstruct Sewer Lateral per SPPWC 223-2, as needed to construct proposed improvements.

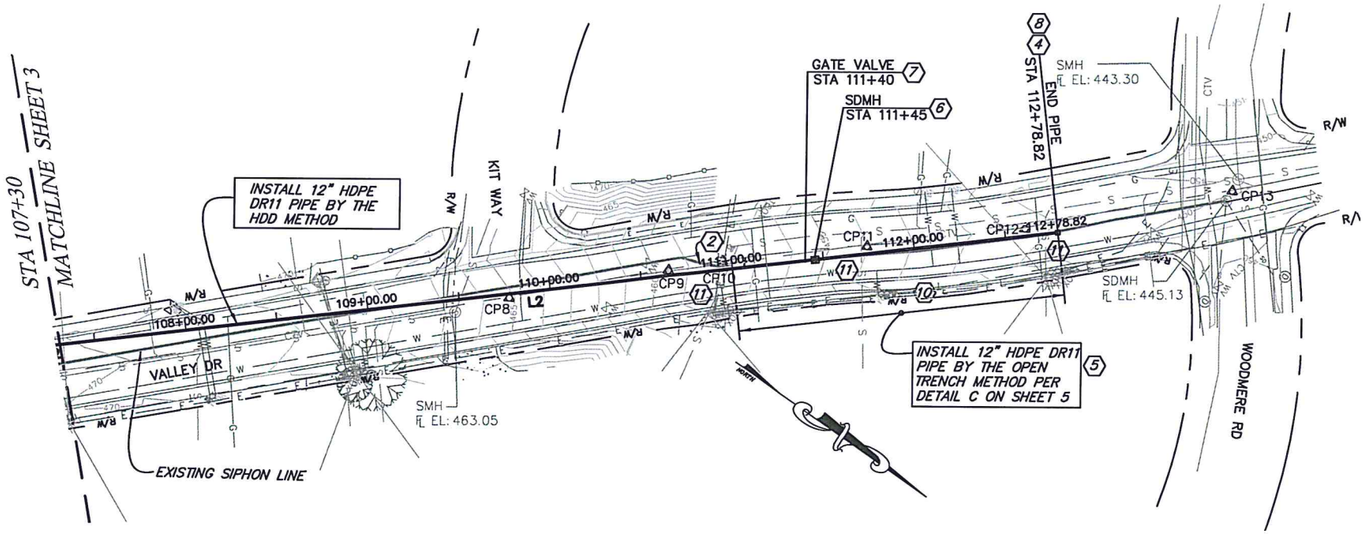
WARNING
Transite pipe contains abestos fibers. Handling and disposing of transite pipe shall comply with all applicable laws and regulations.

HDPE PIPE LINE TABLE		
LINE	BEARING	LENGTH
L2	N41°17'34.17"W	561.742'



PROFILE

SCALE: 1" = 40' HORIZONTAL
1" = 4' VERTICAL



PLAN

SCALE: 1" = 40'

GRAPHIC SCALE

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NOT ALL SERVICE LINES (WATER, SEWER) SHOWN ON PROFILE.
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REVISIONS			
NO.	DESCRIPTION	DATE	APR

REGISTERED PROFESSIONAL ENGINEER MATTHEW G. GRIFFIN No. C 56822 Exp. 9-30-2014 CIVIL STATE OF CALIFORNIA

DESIGNED BY: Matt Griffin 7/28/14
FLOOD CONTROL DESIGN ENGINEER — DATE

SANTA BARBARA COUNTY
FLOOD CONTROL AND
WATER CONSERVATION DISTRICT
130 E. VICTORIA STREET
SANTA BARBARA, CA 93101
(805) 568-3440

MUD LAKE BASIN
SIPHON IMPROVEMENT PROJECT
PHASE II
AREA OF ORCUTT
SANTA BARBARA COUNTY, CALIFORNIA

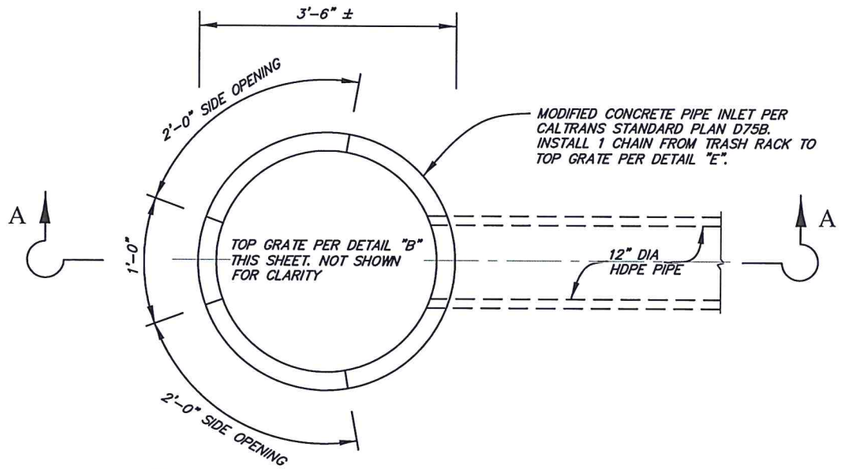
PLAN & PROFILE

DESIGNED BY: M.G.
DRAWN BY: O.R.
CHECKED BY: J.F.

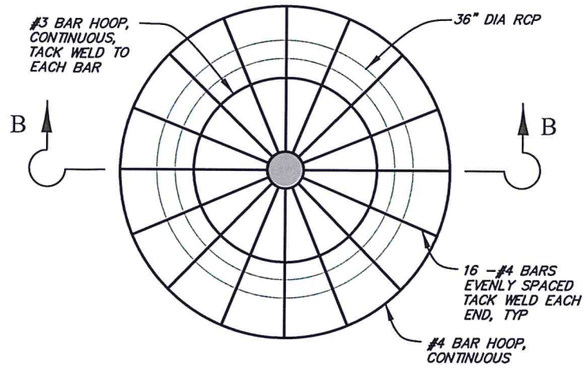
O-1100

SHEET 4 OF 6

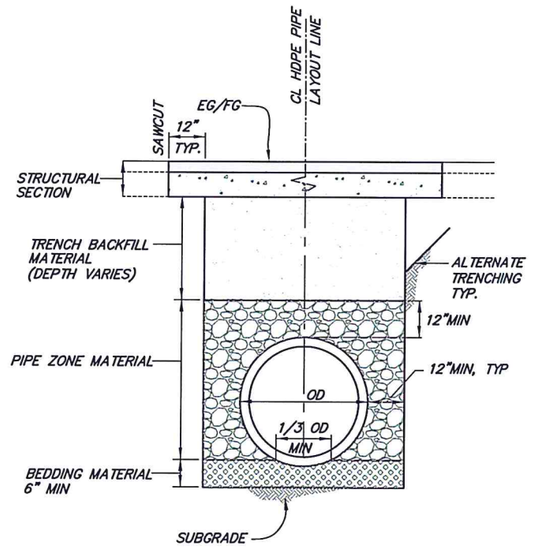
Filename: Mud_Lake_Basins_FC_Phase II-HDD.dwg



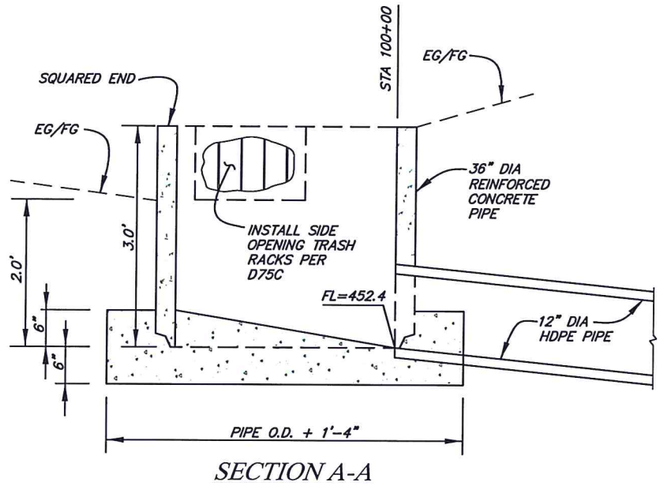
A BASIN OUTLET STRUCTURE
NTS



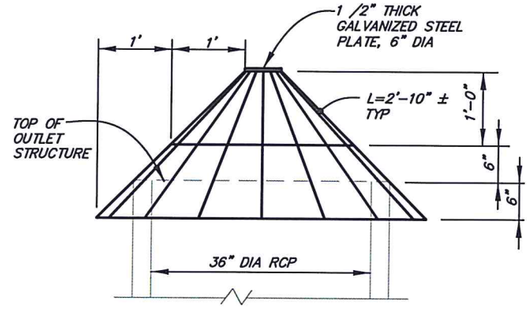
B TOP GRATE
NTS



C TYPICAL TRENCH DETAIL
NTS



SECTION A-A
NTS



SECTION B-B
NTS

TYPICAL TRENCH DETAIL NOTES

1. Temporary excavation support, sloping or benching required as described in the Special Provisions.
2. Bedding material shall conform to the requirements listed in the Special Provisions. Shape bedding material to provide uniform support for pipe as shown. Compact to a minimum of 95% relative compaction.
3. Pipe zone material shall conform to the requirements listed in the Special Provisions. Compact to a minimum of 95% relative compaction.
4. Trench backfill shall conform to the requirements listed in the Special Provisions. Compact to a minimum of 95% relative compaction.
5. Compaction by flooding, ponding or jetting shall not be permitted.
6. Unsuitable bottom of trench conditions may require additional subgrade overexcavation as directed by the engineer.
7. Structural section shall match existing with minimum thickness of 6" class II aggregate base under 6" asphalt concrete conforming to the requirements listed in the special provisions. Compact to a minimum of 95% relative compaction.
8. Scarify and compact subgrade to 90% relative compaction to a minimum depth of 6 inches.

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DESIGNED BY: Matt Griffin 7/28/14
FLOOD CONTROL DESIGN ENGINEER DATE

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SANTA BARBARA, CA 93101
(805) 568-3440

MUD LAKE BASIN
SIPHON IMPROVEMENT PROJECT
PHASE II
AREA OF ORCUTT
SANTA BARBARA COUNTY, CALIFORNIA

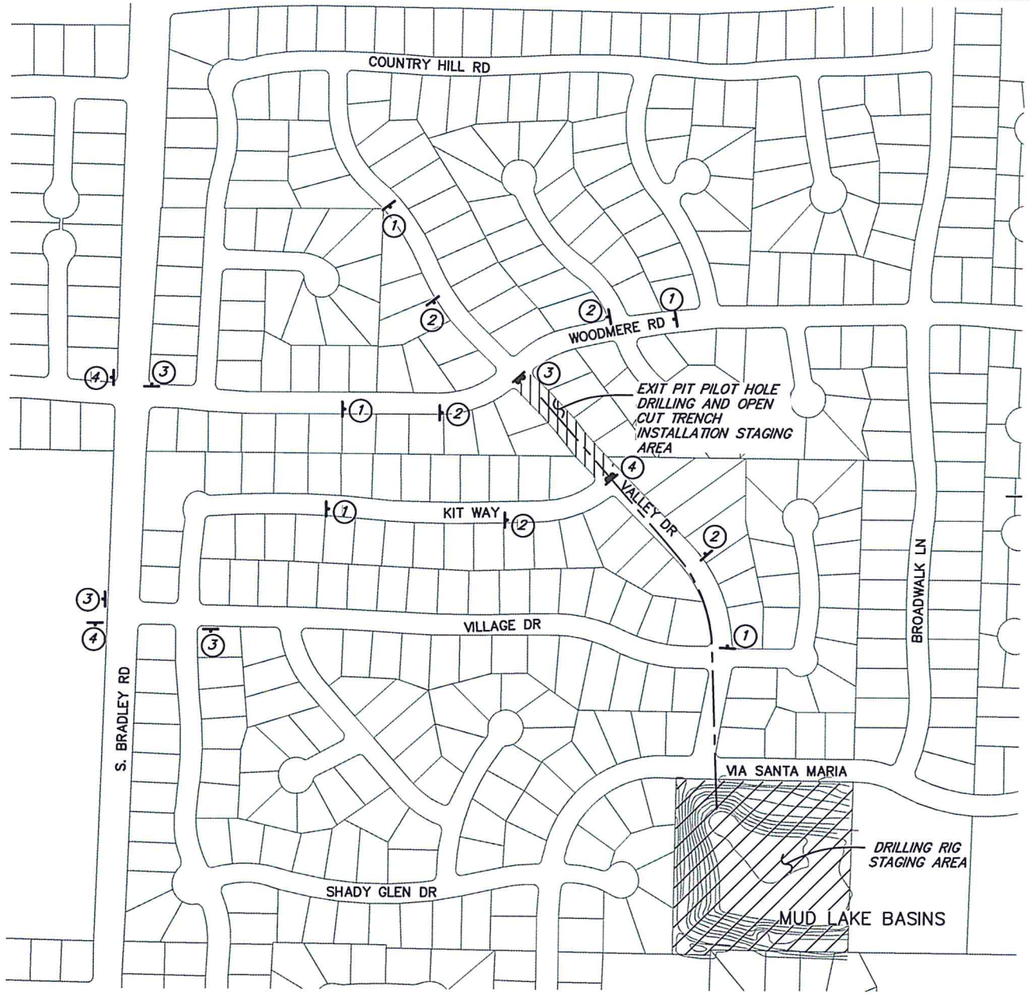
DETAILS

DESIGNED BY:	M.G.
DRAWN BY:	O.R.
CHECKED BY:	J.F.

O-1100

SHEET 5 OF 6

Filename: Mud_Lake_Basins_FC_Phase II-HDD.dwg

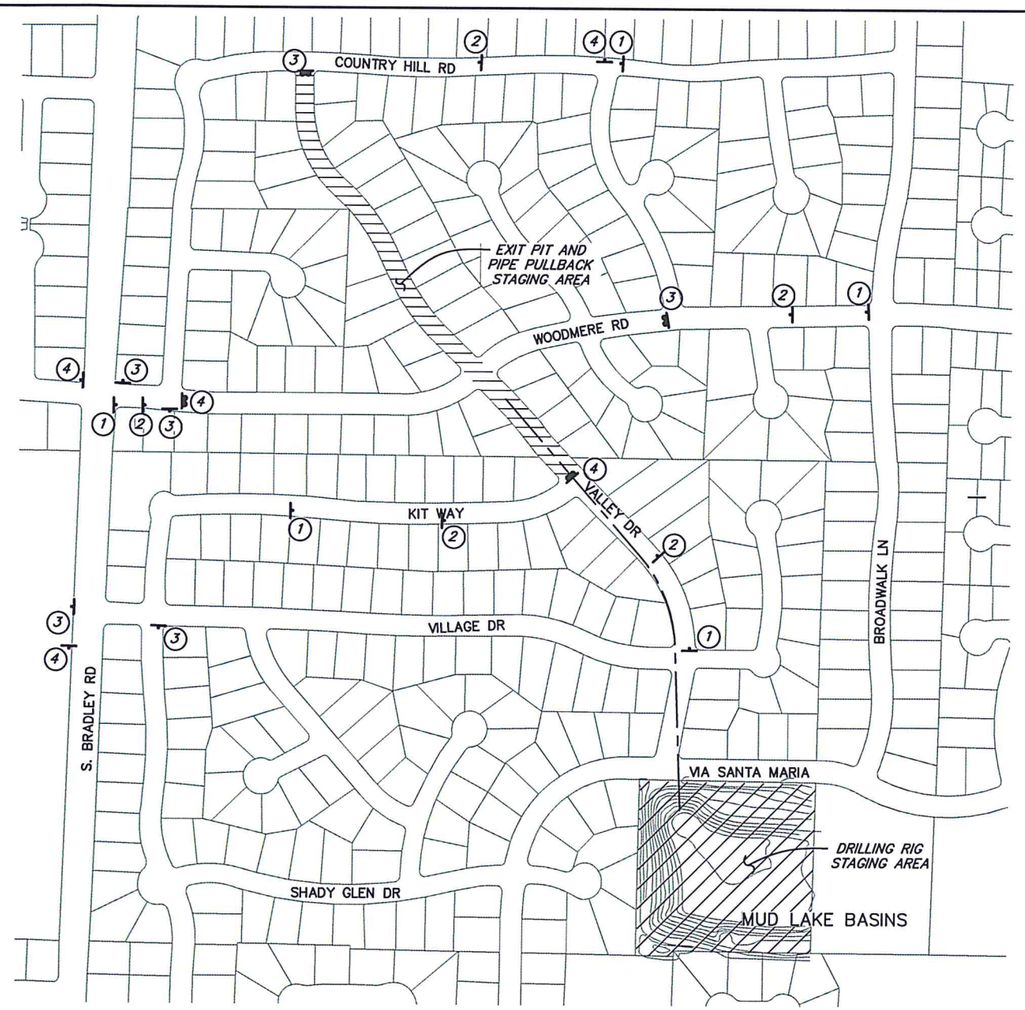


PILOT HOLE DRILLING AND OPEN CUT TRENCH INSTALLATION

NTS

TRAFFIC CONTROL NOTES:

1. Sign locations shown are approximate. Exact location shall be determined in field in conformance with "Work Area Traffic Control Handbook" and as approved by Engineer.
2. Detour for Pilot hole drilling and open cut trench installation may only be in place during working hours and not before 8:00 a.m.
3. Maintain local traffic and driveway access at all times.



PIPE PULLBACK INSTALLATION

NTS

TRAFFIC CONTROL NOTES:

1. Sign locations shown are approximate. Exact location shall be determined in field in conformance with "Work Area Traffic Control Handbook" and as approved by Engineer.
2. Detour and road closure for Pipe Pullback Installation may only be in place for 5 consecutive calendar days total and may not be left in place during weekends or Holidays.
3. Maintain local traffic and driveway access at all times.

LEGEND:

- Type III barricade with sign, as shown
- Temporary sign, as shown
- Staging area

CONSTRUCTION AREA SIGNS:

SIGN#	SIGN CODE	DESCRIPTION
1	W20-1	ROAD WORK AHEAD
2	R11-3a	ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY
3	M4-10 AND GUIDE SIGN	DETOUR RIGHT
4	M4-10 AND GUIDE SIGN	DETOUR LEFT

GRAPHIC SCALE

1" 0 1" 2" 4"

ALL UNDERGROUND UTILITIES SHOWN ARE PLOTTED BASED ON INFORMATION PROVIDED BY OTHERS, AND ARE APPROXIMATE. OVERHEAD UTILITIES ARE NOT SHOWN.

THE SANTA BARBARA COUNTY FLOOD CONTROL DISTRICT IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS INFORMATION. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION @ 1-800-422-4133.

UNAUTHORIZED CHANGES OR USES: THE SANTA BARBARA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT AND ITS EMPLOYEES WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE PRESENTED IN WRITING TO THE DISTRICT AND APPROVED IN WRITING BY THE DISTRICT PRIOR TO IMPLEMENTATION OF ANY SUCH CHANGE OR USE.

REVISIONS			
NO.	DESCRIPTION	DATE	APR

REGISTERED PROFESSIONAL ENGINEER — MATTHEW G. GRIFFIN — No. C 66822 — Exp. 9-30-2014 — CIVIL — STATE OF CALIFORNIA

DESIGNED BY: Matt Griffin 7/28/14
FLOOD CONTROL DESIGN ENGINEER — DATE

SANTA BARBARA COUNTY
FLOOD CONTROL AND
WATER CONSERVATION DISTRICT
130 E. VICTORIA STREET
SANTA BARBARA, CA 93101
(805) 568-3440

MUD LAKE BASIN
SIPHON IMPROVEMENT PROJECT
PHASE II
AREA OF ORCUTT
SANTA BARBARA COUNTY, CALIFORNIA

CONSTRUCTION AREA SIGNS AND STAGING AREAS

DESIGNED BY:	M.G.
DRAWN BY:	O.R.
CHECKED BY:	J.F.

O-1100

SHEET 6 OF 6

Filename: Mud_Lake_Basins_FC_Phase II-HDD.dwg

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