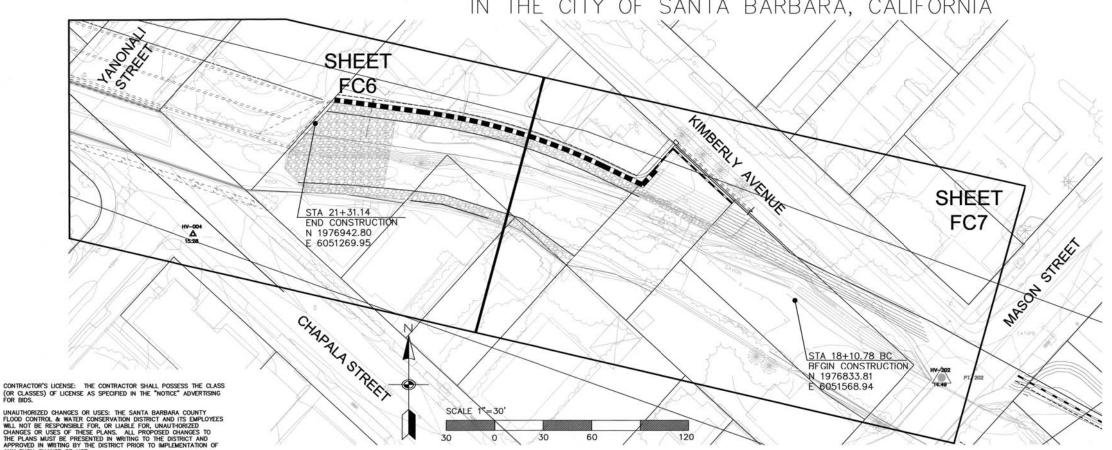


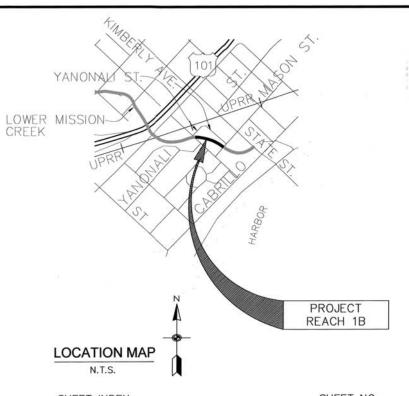


SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

# LOWER MISSION CREEK FLOOD CONTROL PROJECT REACH 1B

MASON STREET TO YANONALI STREET IN THE CITY OF SANTA BARBARA, CALIFORNIA





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## DISTRICT BOARD OF DIRECTORS

JANET WOLF THIRD DISTRICT DOREEN FARR PETER ADAM FOURTH DISTRICT FIFTH DISTRICT STEVE LAVAGNINO



DECODIDED	DATE	APPR
DESCRIPTION	DATE	APPR
		-
	DESCRIPTION	DESCRIPTION DATE



original to be signed CITY ENGINEER



SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

LOWER MISSION CREEK FLOOD CONTROL PROJECT REACH 1B

TITLE SHEET

DATE:	FEBRUARY 20
SCALE:	AS SHOWN
FILE NAME:T	26034FC001.dv
DESIGNED BY:	AG

CHECKED BY: YHC

DRAWN BY: AG

FC<sub>1</sub> SHEET 1 OF 17

- 2. MAPPING IS SUPPLEMENTED BY DATA COLLECTED IN A FIELD SURVEY USING CONVENTIONAL METHODS AND PROCEDURES IN JUNE 2003 BY PENFIED & SMITH, AND IN AUGUST 2003 BY JOHNSON FRANK & ASSOCIATES.
- 3. THE AERIAL PHOTOGRAPHY USED AS THE BACKGROUND FOR THIS MAP WAS OBTAINED ON MAY 5, 2003 BY ARROWHEAD MAPPING CORPORATION, THE PHOTOGRAPHY HAS BEEN CONVERTED INTO A DIGITAL FORMAT AND CORRECTED FOR HORIZONTAL AND VERTICAL DISTORTION USING STANDARD PHOTOGRAMMETRIC METHODS
- 4. BEARINGS SHOWN ON THIS MAP ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, NAD 83, ZONE 5 GRID (EPOCH 1991.35), DEFINED LOCALLY BY THE SANTA BARBARA CONTROL NETWORK AS SHOWN ON RECORD OF SURVEY FILED WITH THE COUNTY SURVEYOR IN BOOK 147 PAGES 70-74. DISTANCES AND COORDINATES SHOWN AS MEASURED OR CALCULATED ARE EXPRESSED IN CCS, NAD 83, ZONE V GRID US SURVEY FOOT
- 5. ELEVATIONS SHOWN HEREON ARE EXPRESSED IN U.S. SURVEY FEET AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), DEFINED LOCALLY BY THE SANTA BARBARA CONTROL NETWORK AS SHOWN ON RECORD OF SURVEY FILED WITH THE COUNTY SURVEYOR IN BOOK 147 PAGES 70-74.

#### GENERAL NOTES

- 1. EXISTING UTILITIES INFORMATION WAS ASSEMBLED FROM EXISTING UTILITY COMPANY MAPS.
- 2. REFERENCE DRAWINGS LISTED ON THE PLANS ARE AVAILABLE TO THE CONTRACTOR (SEE SPECIFICATIONS). THESE REFERENCE DOCUMENTS ARE NOT CONSIDERED EXHAUSTIVE AND COMPLETE, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT THOROUGH AND COMPLETE RESEARCH ON EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- 3. CONTRACTOR SHALL VERIFY SITE CONDITIONS, LOCATION AND SIZE OF UNDERGROUND UTILITIES AS SHOWN ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCING WORK
- 4. ALL FEES AND PERMITS SHALL BE PAID FOR BY THE CONTRACTOR
- THE CONTRACTOR SHALL NOTIFY, IN WRITING, ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES PRIOR TO EXCAVATION WORK AND CALL DIG ALERT 811, PRIOR TO COMMENCING WORK.
- 6. FOR BORING LOGS AND OTHER GEOTECHNICAL INFORMATION, SEE "GEOTECHNICAL ENGINEERING REPORT FOR LOWER MISSION CREEK CHANNEL IMPROVEMENT PROJECT- PHASE 2 (REACHES 1B AND 3-7)" BY BENGAL ENGINEERING, INC. DATED MARCH 11, 2011 AND "TECHNICAL MEMORANDUM- GEOTECHNICAL RECOMMENDATIONS FOR THE PROPOSED SECANT PILE RETAINING WALLS FOR THE LOWER MISSION CREEK CHANNEL IMPROVEMENT AND RESTORATION PROJECT- REACH 1B", DATED JULY 16, 2011. CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL GEOTECHNICAL REPORT AND UPDATES.
- 7. CONTRACTOR IS ADVISED ADDITIONAL WORK BY OTHER CONTRACTORS WILL TAKE PLACE WITHIN AND ADJACENT TO THE PROJECT LIMITS. CONTRACTOR IS TO COORDINATE AND COOPERATE WITH OTHER CONTRACTORS AND GOVERNING AGENCIES AS REQUIRED.
- SITE SECURITY DURING CONSTRUCTION SHOULD CONSIST OF TEMPORARY FENCING TO BE INSTALLED AND MAINTAINED BY THE CONTRACTOR DURING THE ENTIRE CONSTRUCTION OF THE

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 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 FRIOR TO IMPLEMENTATION OF ANY SUCH CHANGE OR USE.

#### ENVIRONMENTAL CONTROL AND MAINTENANCE OF SITE CONDITIONS

- THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL AS REQUIRED THROUGHOUT CONSTRUCTION AND INSPECT EROSION CONTROLS ON A MINIMUM WEEKLY BASIS.
- 2. PRIOR TO THE BEGINNING OF ANY CONSTRUCTION PHASE THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL AND MAKE ANY REPAIRS REQUIRED AS WELL AS CONFIRM THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL WHICH IS SPECIFIC TO ANY CONSTRUCTION PHASE.
- THE CONTRACTOR'S STAGING AND STORAGE AREA SHALL CONFORM TO ALL EROSION CONTROL DETAILS AND SPECIFICATIONS. IF TEMPORARY DRAINAGE IS REQUIRED WITHIN THE STAGING AND STORAGE AREA IT SHALL CONFORM TO ALL EROSION CONTROL SPECIFICATIONS AND DETAILS AND APPROVED BY THE GOVERNING AGENCY PRIOR TO INSTALLATION.
- 4. ALL SOILS STORED WITHIN THE CONTRACTOR STAGING AND STORAGE AREA SHALL BE SURROUNDED BY A SINGLE ROW OF STAKED HAY BALES AND COVERED TO PREVENT WIND EROSION.
- 5. ALL TREE PROTECTION SHALL BE MAINTAINED AND INSPECTED THROUGHOUT CONSTRUCTION.
- PRECAUTIONS SHALL BE TAKEN TO PREVENT AND CONTROL DUST FROM CONSTRUCTION OPERATIONS BECOMING A NUISANCE TO ADJACENT AREAS. SURROUNDING STREETS AND WALKWAYS SHALL BE SWEPT AND WASHED CLEAN ON A DAILY BASIS OR AS DIRECTED BY GOVERNING AGENCY. STOCKPILES AND UNSTABILIZED SURFACES SHALL BE KEPT MOIST.
- 7. CONTRACTOR SHALL MAINTAIN VEHICULAR AND PEDESTRIAN TRAFFIC IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- UPON COMPLETION OF TRENCH BACKFILLING OR OTHER INDIVIDUAL ITEMS OF CONSTRUCTION, ALL SURPLUS MATERIALS AND EQUIPMENT NO LONGER NEEDED SHALL BE IMMEDIATELY REMOVED. LEAVING THE CONSTRUCTION SITE AND SURROUNDINGS FREE AND CLEAN.
- AFTER WORK IS COMPLETE, SEWERS, DRAINS, MANHOLES, CATCH BASINS AND OTHER STRUCTURES SHALL BE CAREFULLY CLEANED OF DIRT, BROKEN MASONRY, MORTAR AND OTHER DEBRIS AND LEFT READY FOR USE.

### CONSTRUCTION PHASING

PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL:

- SUBMIT PLAN OF PROPOSED CONTRACTOR STAGING AND STORAGE AREA FOR REVIEW AND APPROVAL BY GOVERNING AGENCY.
- 2. SUBMIT FOR APPROVAL A TRAFFIC PLAN SHOWING HOW ALL TRUCK MOVEMENTS TO AND FROM THE SITE ARE TO BE ACCOMPLISHED.
- 3. REVIEW ALL EXISTING UTILITY INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS AND CONDUCT ALL OTHER ADDITIONAL RESEARCH REQUIRED TO CONFIRM EXISTING UTILITIES. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED.
- 4. MARK OUT ALL EXISTING UTILITIES ON THE SITE AND COORDINATE WITH EACH UTILITY OWNER OR OPERATOR ON THE WORK THAT WILL AFFECT EACH UTILITY. THE GOVERNING AGENCY SHALL BE NOTIFIED THAT THE UTILITY OWNERS/OPERATORS HAVE BEEN CONTACTED AND SHALL BE PRESENTED FOR ALL SITE MEETINGS.
- 5. SUBMIT TO THE GOVERNING AGENCY COMPLETE PHASING PLANS FOR REVIEW AND APPROVAL.

#### SITE PREPARATION AND DEMOLITION

- CONTRACTOR SHALL DISPOSE OF ALL DEMOLISHED MATERIAL AND DEBRIS IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS HAVING JURISDICTION.
- 2. CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION ANY AREAS ADJACENT TO AND OUTSIDE THE LIMIT OF WORK WHICH ARE DISTURBED DURING CONSTRUCTION, AT THE CONTRACTOR'S OWN EXPENSE.
- CONTRACTOR SHALL SAW CUT PAVEMENT WHERE PAVEMENT TO BE REMOVED ABUTS PAVEMENT WHICH IS TO REMAIN.
- 4. CONTRACTOR SHALL STOCKPILE ALL STRIPPED TOPSOIL OFFSITE.
- 5. UTILITY SERVICES SHALL BE MAINTAINED TO ALL BUILDINGS BEING OCCUPIED AT ALL TIMES
- 6. CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE AT ALL TIMES WITHIN THE LIMIT OF WORK, THERE SHALL BE NO PONDING OF WATER OR EROSION OF LANDSCAPED AREAS AT ANY TIME.
- 7. EXISTING UTILITIES, INDICATED TO REMAIN, SHALL BE PROTECTED IN PLACE, AND MAINTAINED IN GOOD WORKING CONDITION.

#### LAYOUT

- 1. LABELED DIMENSIONS SUPERSEDE SCALED DIMENSIONS FOR ALL LAYOUT WORK.
- 2. AT ALL LOCATIONS, STATION AND OFFSETS ARE GIVEN TO REVEAL SIDE OF CURB OR EDGE OF PAVEMENT AS APPROPRIATE.
- 3. ALL LINES ARE PARALLEL OR PERPENDICULAR UNLESS OTHERWISE
- 4 ALL HORIZONTAL DRAWING DIMENSIONS SHALL BE MEASURED IN A TRUE VERTICAL PLANE, EXCEPT AS OTHERWISE NOTED.

- 1. THE CONTRACTOR SHALL PROVIDE UNIFORM SLOPE BETWEEN SPOT GRADES AND CONTOURS.
- 2. THE CONTRACTOR SHALL ADJUST ALL EXISTING UTILITY CASTINGS TO LINE AND GRADE, UNLESS OTHERWISED NOTED

### UTILITY

- CONTRACTOR SHALL VERIFY LOCATIONS, ELEVATIONS AND SIZES OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. CALL DIG ALERT AT 811, A MINIMUM OF TWO (2) FULL WORKING DAYS PRIOR
- 2. CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER AND STORM DRAIN FLEVATIONS WHICH MAY REQUIRE POT-HOLING
- 3. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL UTILITY WORK WITH THE APPROPRIATE GOVERNING AGENCIES.

#### STRUCTURAL NOTES

- REINFORCED CONCRETE MEMBERS ARE DESIGNED IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", AMERICAN CONCRETE INSTITUTE, (ACI 318M) STRENGTH DESIGN METHOD
- 2. STRUCTURAL STEEL MEMBERS ARE DESIGNED IN ACCORDANCE WITH "MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN", AMERICAN INSTITUTE OF STEEL CONSTRUCTION.

3. DESIGN LOADS: DEAD LOADS/MATERIAL DENSITIES
NORMAL WEIGHT CONCRETE 150 PCF 490 PCF STRUCTURAL STEEL BACKFILLED SOIL 120 PCF WATER AND BUOYANCY 62.4 PCF MUDDINIMUTE 170 PCF VEHICULAR LIVE LOADS: AASHTO HS-20 VEHICLE AASHTO HS-25 VEHICLE

- 4. FOR GEOTECHNICAL DATA, SEE PROJECT GEOTECHNICAL REPORTS FROM BENGAL ENGINEERNING, INC. DATED AUGUST 2010.
- ALL DIMENSIONS TO REINFORCING SHOWN ON THE DRAWINGS ARE TO CENTERLINES OF BARS UNLESS OTHERWISE NOTED.

#### FOUNDATIONS:

- 1. ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER PRIOR TO ANY CONSTRUCTION OR BACKELL
- 2. BACKFILL SHALL BE PLACED AND COMPACTED ON SIDES OF STRUCTURES SIMULTANEOUSLY IN ACCORDANCE WITH THE SPECIFICATIONS.
- 3. TOP OF ROCK ELEVATION IS DEFINED BY THE GEOTECHNICAL DATA REPORT AT DISCRETE BORING LOCATIONS ONLY.

#### CONCRETE

- 1. STRUCTURAL CONCRETE, INCLUDING ALL PRECAST COMPONENTS, SHALL ATTAIN A 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE NOTED ON THE PLANS AND SHALL CONFORM TO THE REQUIREMENTS OF THE PROJECT SPECIFICATION
- 2. PROVIDE A 3/4" CHAMFER AT ALL EXPOSED CONCRETE EDGES UNLESS OTHÉRWISE SHOWN ON THE DRAWINGS.
- CONCRETE WORK SHALL BE COORDINATED AND VERIFIED WITH ALL OTHER WORK TO ENSURE PROPER PROVISIONS FOR DOWELS. INSERTS, EMBEDMENTS, PIPING AND MANHOLE REQUIREMENTS PRIOR TO CONCRETE PLACEMENT.
- 4. CONSTRUCTION JOINTS SHOWN ON THE DRAWINGS SHALL NOT BE OMITTED WITHOUT PRIOR APPROVAL
- CONSTRUCTION JOINTS, IN ADDITION TO THOSE SHOWN ON THE DRAWINGS, SHALL NOT BE PERMITTED UNLESS ACCEPTED IN WRITING BY THE GOVERNING AGENCY.

#### REINFORCEMENT

- 1. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60 UNLESS OTHERWISE NOTED.
- 2. WELDED BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM, A706, GRADE 60.
- 3. EPOXY-COATED REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A775.
- 4. THE MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE 2", EXCEPT IT SHALL BE 3" FOR CONCRETE CAST DIRECTLY AGAINST EARTH.
- 5. SEE STRUCTURAL SPECIFICATIONS FOR SPECIFIC REINFORCEMENT **GUIDELINES**
- BARS SHALL BE MECHANICALLY SPLICED WHERE INDICATED ON THE DRAWINGS AND AS OTHERWISE REQUIRED TO ACCOMMODATE CONSTRUCTION SEQUENCING. MECHANICAL SPLICES SHALL DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR.
- 7. MECHANICAL SPLICES SHALL BE STAGGERED A MINIMUM OF 12' ADJACENT BARS.

ELIC TORRED C

OROFESS/

	REVISIONS		
MARK	DESCRIPTION	DATE	APPR.



SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTIRCT 123 F ANAPAMII STREET SANTA BARBARA, CA 93101 805.568.3440



TETRA TECH 800 WEST SIXTH STREET, SUITE 380 LOS ANGELES, CA 9001/7 213.327.0800

Moling FEB. 24, 2015 ARIC M. TORREYSON R.C.E. 66068 DATE

SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

LOWER MISSION CREEK FLOOD CONTROL PROJECT REACH 1B

NOTES

DATE: FEBRUARY 2015 SCALE: AS SHOWN FILE NAME: DESIGNED BY: AG DRAWN BY: AG

CHECKED BY: YHC

SHEET REFERENCE NUMBER FC<sub>2</sub>

SHEET 2\_OF 17

## STANDARD PLANS AND DETAILS

LINETYPES

– s –

---- EXISTING

RIPRAP

SOIL

CONCRETE

\_\_\_\_\_ RIGHT-OF-WAY (R/W)

---- SBCFCD EASEMENT

NEW CHANNEL WALL

\_\_\_\_\_ CENTER LINE/CONTROL LINE

- OHW - OVERHEAD WIRE

— UNDERGROUND ABANDONED SEWER

--- UNDERGROUND ABANDONED WATER

— UNDERGROUND GAS

— FOC — UNDERGROUND FIBER OPTIC CABLE

— UNDERGROUND SEWER

- SL ---- UNDERGROUND STREET LIGHT (ELEC.)

UNDERGROUND TELEPHONE

— TR — UNDERGROUND TRAFFIC SIGNAL (ELEC.)

— UNDERGROUND WATER

- CONTOUR GRADE LINE

---- TEMPORARY CONSTRUCTION EASEMENT (TCE)

--- RW ----- UNDERGROUND RECLAIMED WATER

— SD — UNDERGROUND STORM DRAIN

— UNDERGROUND ELECTRIC

CITY OF SANTA BARBARA STANDARD CURB AND GUTTER- STD DETAIL 1-002.0-06 COMMERCIAL DRIVEWAY- STD DETAIL 1-003.1-06 SIDEWALK PLAN- 1-006.0-06 SIDEWALK SECTION- 1-006.1-06 FIRE HYDRANT GUARD POST- STD DETAIL 6-003.0-06

CALTRANS 2010 STANDARD PLANS HOT MIX ASPHALT DIKES TYPE A- STD PLAN A87B RETAINING WALL DETAIL NO. 2- STD PLAN B3-6

ABBRE'	<u>VIATIONS</u>				
ABAND.	ABANDONED	FL	FLOWLINE	PVC	POLYVINYL CHLORIDE
ABC	AGGREGATE BASE COURSE	FS	FINISH SURFACE	R	RADIUS
AC	ASPHALTIC CONCRETE	FT	FEET	RCP	REINFORCED CONCRETE PIPE
APPROX.	APPROXIMATE	FWY	FREEWAY	RD	ROAD
AVE	AVENUE	GALV	GALVANIZED	RET	RETAINING
ВС	BEGIN CURVE	GB	GRADE BREAK	ROW	RIGHT-OF-WAY
BLDG	BUILDING	HDPE	HIGH DENSITY	S=	SLOPE
Ą.	CENTERLINE		POLYETHYLENE PIPE	S	SOUTH
С	CURVE DATA	HOR	HORIZONTAL	SD	STORM DRAIN
CF	CUBIC FEET	HT	HEIGHT	SDMH	STORM DRAIN MANHOLE
CFS	CUBIC FEET PER SECOND	INV	INVERT ELEVATION	SF	SQUARE FEET
CH	CHANNEL	L	LINE DATA	SHT	SHEET
C.J.	CONSTRUCTION JOINT	LBS	POUNDS	SS	SANITARY SEWER
CLR	CLEAR	LF	LINEAR FEET	STA	STATION
CMP	CORRUGATED METAL PIPE	MAX	MAXIMUM	STD	STANDARD
COE	CORPS OF ENGINEERS	MH	MANHOLE	STR	STRUCTURE
CONC	CONCRETE	MIN	MINIMUM	TAD	TOP OF AC DIKE
CONST.	CONSTRUCT	MWD	METROPOLITAN WATER DISTRICT	TBD	TO BE DETERMINED
CY	CUBIC YARD	N	NORTH, NORTHING	TF	TOP OF FOOTING
DIA	DIAMETER	NAD	NORTH AMERICAN DATUM	TOB	TOP OF BANK
DR	DRIVE	NAVD	NORTH AMERICAN VERTICAL DATUM	TOC	TOP OF CURB
Е	EAST, EASTING	NTS	NOT TO SCALE	TOW	TOP OF WALL
EA	EACH	OC	ON CENTER	TYP	TYPICAL
EC	END CURVE	OG	ORIGINAL GROUND	UG	UNDERGROUND
EG	EXISTING GRADE	PED	PEDESTRIAN	VERT	VERTICAL
EL	ELEVATION	PERF.	PERFORATED	VLF	VERTICAL LINEAR FEET
EX	EXISTING	PCC	POINT OF COMPUND CURVE	W	WEST
EOP	EDGE OF PAVEMENT	PI	POINT OF INTERSECTION	WS	WATER SURFACE
FG	FINISH GRADE	PIP	PROTECT IN PLACE		
		PRC	POINT OF REVERSE CURVE		
<u>SYMBOL</u>	<u>-S</u>				

CATCH BASIN
-------------

FIRE HYDRANT

IRRIGATION CONTROL

VALVE METER

MANHOLE (TYPE INDICATED)

SURVEY MARKER

POWER POLE

PULLBOX (TYPE INDICATED)

WATER VALVE

STREET LIGHT

WATER SURFACE

SLOPE

24 EXISTING ELEVATION

### 36 CONSTRUCT WALL JOINT DETAIL ON SHEET FC9 37 AFFIX NEW "ADA ACCESSIBLE", LEFT ARRAY SIGN (9"x6") TO BLOCK WALL

CURB OUTLET DRAIN- TYPE A- STD DETAIL 2-006.0

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION REINFORCED CONCRETE RETAINING WALL TYPE 1- STD PLAN 610-3 REINFORCED CONCRETE STAIRWAY- STD PLAN 640-3

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 OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE PRESENTED IN WRITING BY THE DISTRICT AND APPROVED IN WRITING BY THE DISTRICT PRIOR TO IMPLEMENTATION OF ANY SUCH CHANGE OR USE.

REMAINING IN PLACE.

	REVISIONS		
MARK	DESCRIPTION	DATE	APPR.



SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTIRCT 123 F ANAPAMII STREET SANTA BARBARA, CA 93101 805.568.3440



# TETRA TECH

800 WEST SIXTH STREET, SUITE 380 LOS ANGELES, CA 9001/2 213.327.0800

Mlux FEB. 24, 2015 ARIC M. TORREYSON R.C.E. 66068

SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

LOWER MISSION CREEK FLOOD CONTROL PROJECT REACH 1B

NOTES, ABBREV., SYMBOLS & **CONSTRUCTION NOTES** 

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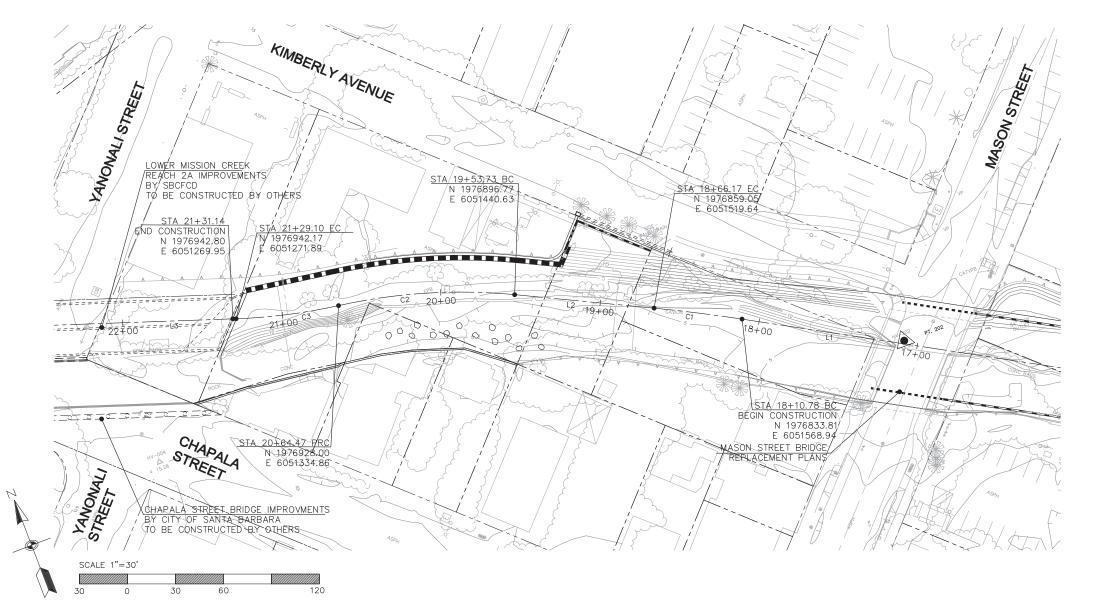
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CHECKED BY: YHC

SHEET EFERENCE NUMBER

SHEET 3 OF 17

		LOWER 1	MISSION CR	EEK REACH	I 1B – LINE	TABLE		
LINE NO.	BEG. NORTHING	BEG. EASTING	BEG. STATION	END STATION	END NORTHING	END EASTING	LENGTH	BEARING
L1	1976716.82	6051782.71	15+67.09	18+10.78	1976833.81	6051568.94	243.69'	N61°18'29.09"W
L2	1976859.05	6051519.64	18+66.17	19+53.73	1976896.77	6051440.63	87.56'	N64*28'54.79"W
L3	1976942.17	6051271.89	21+29.10	23+21.54	1977001.54	6051088.84	192.44	N72*01'49.56"W



### BENCHMARK

FOUND STANDARD USC&GS BRASS TIDAL STATION DISK (DESIGNATION 941 1340 TIDAL 1) STAMPED "BM 1 1930" NEAR THE INTERSECTION OF HELENA AVENUE AND EAST CABRILLO BLVD., SET IN THE TOP OF THE NE'LY END OF A 4' HIGH CONCRETE GUARDRAIL OF THE BRIDGE OVER MISSION CREEK, 52.5' SE'LY OF THE CENTERLINE OF CABRILLO BLVD. ELEVATION = 4.921 METERS NAVD88.

TANGENT

27.70

55.84

32.41'

#### SURVEY CONTROL

- TOPOGRAPHIC MAPPING WAS COMPILED AT A SCALE OF 1"=200', WITH A 1 FOOT CONTOUR INTERVAL, USING STANDARD PHOTOGRAMMETRIC METHODS AND PROCEDURES BY ARROWHEAD MAPPING CORPORATION, FROM AERIAL PHOTOGRAPHY DATED MAY 5, 2003.
- 2. MAPPING IS SUPPLEMENTED BY DATA COLLECTED IN A FIELD SURVEY USING CONVENTIONAL METHODS AND PROCEDURES IN JUNE 2003 BY PENFIED & SMITH, AND IN AUGUST 2003 BY JOHNSON FRANK & ASSOCIATES.
- 3. BEARINGS SHOWN ON THIS MAP ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, NAD 83, ZONE 5 GRID (EPOCH 1991.35), DEFINED LOCALLY BY THE SANTA BARBARA CONTROL NETWORK AS SHOWN ON RECORD OF SURVEY FILED WITH THE COUNTY SURVEYOR IN BOOK 147 PAGES 70-74. DISTANCES AND COORDINATES SHOWN AS MEASURED OR CALCULATED ARE EXPRESSED IN CCS, NAD 83, ZONE V GRID US SURVEY FOOT UNITS
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- 5. THE EXISTING UTILITIES SHOWN HEREON HAVE BEEN COMPILED FROM ATLAS MAPS OBTAINED FROM THE FOLLOWING PUBLIC AND PRIVATE

ELECTRIC - SOUTHERN CALIFORNIA EDISON COMPANY GAS - SOUTHERN CALIFORNIA GAS COMPANY CATV - COX COMMUNICATIONS TELEPHONE COMMUNICATIONS - VERIZON FIBER OPTIC CABLE - AT&T FIBER OPTIC CABLE - U.S. SPRINT FIBER OPTIC CABLE - MCI NETWORK SERVICES INC. WATER - CITY OF SANTA BARBARA SEWER - CITY OF SANTA BARBARA STORM DRAIN - CITY OF SANTA BARBARA

- 6. COMPILED UTILITIES HAVE BEEN GEOREFERENCED TO VISIBLE SURFACE UTILITIES LOCATED BY SAID AERIAL MAPPING AND SUPLEMENTAL FIELD SURVEYS.
- 7. TETRA TECH INC. DOES NOT ACCEPT ANY RESPONSIBILITY FOR INDICATED SIZES, LOCATIONS, ACCURACY OR COMPLETENESS OF INFORMATION OBTAINED FROM SAID ATLAS MAPS.

	REVISIONS		
MARK	DESCRIPTION	DATE	APPR.



SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTIRCT 123 F ANAPAMII STREET SANTA BARBARA, CA 93101 805.568.3440



800 WEST SIXTH STREET, SUITE 380 LOS ANGELES, CA 9001/7 213.327.0800 M Lux ARIC M. TORREYSON R.C.E. 66068

TETRA TECH

FEB. 24, 2015

SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

LOWER MISSION CREEK FLOOD CONTROL PROJECT REACH 1B

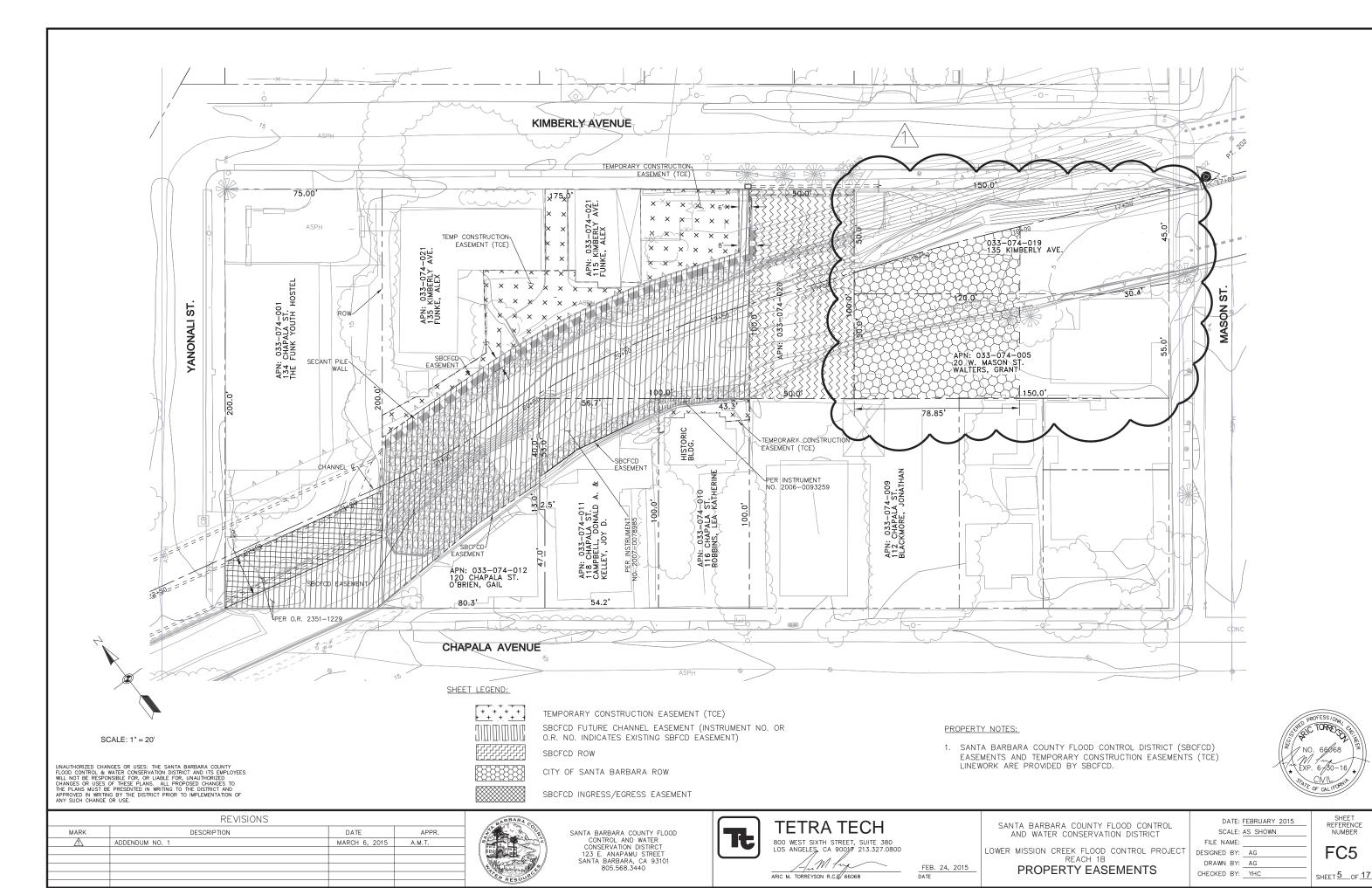
HORIZONTAL CONTROL

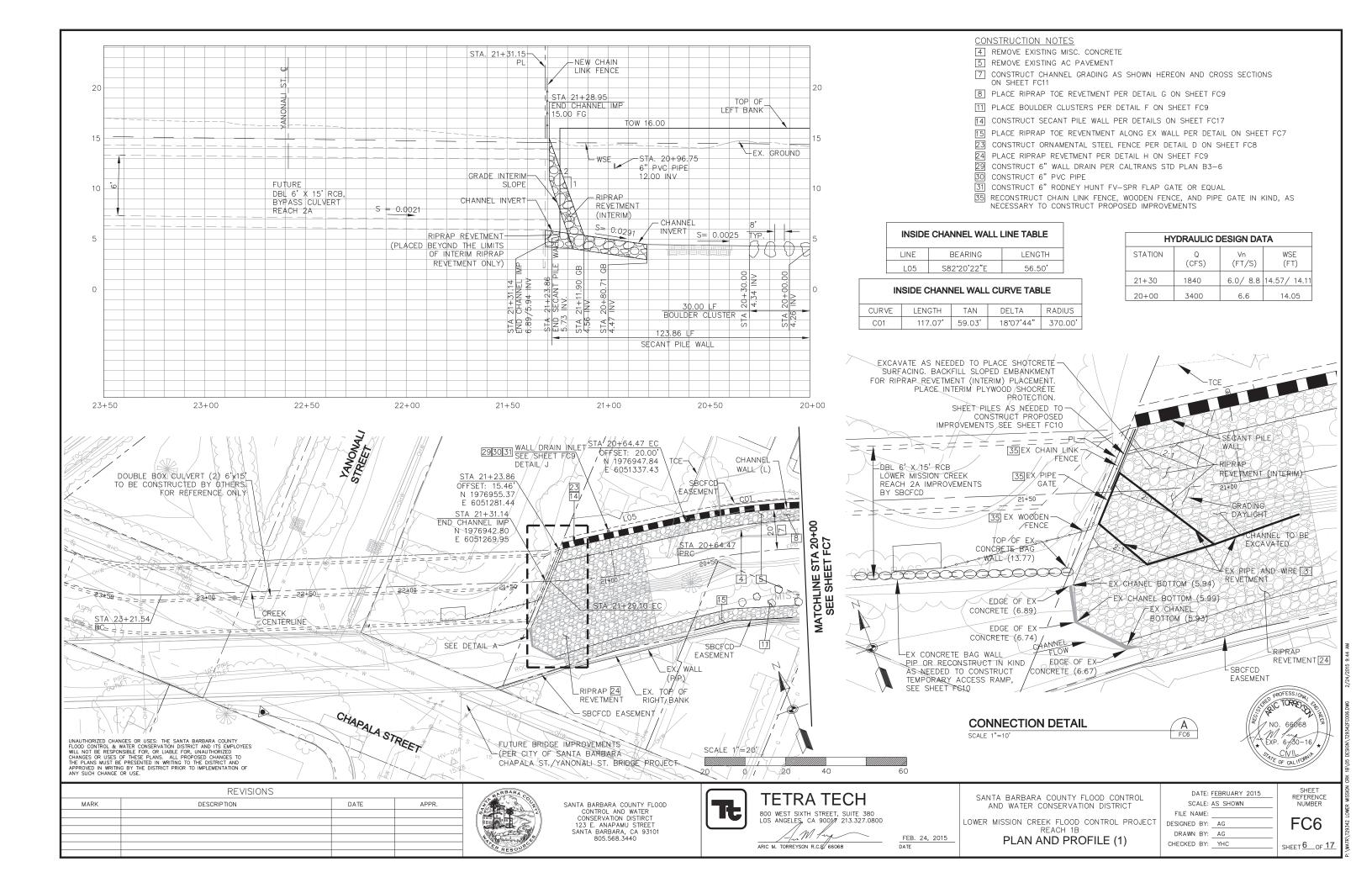
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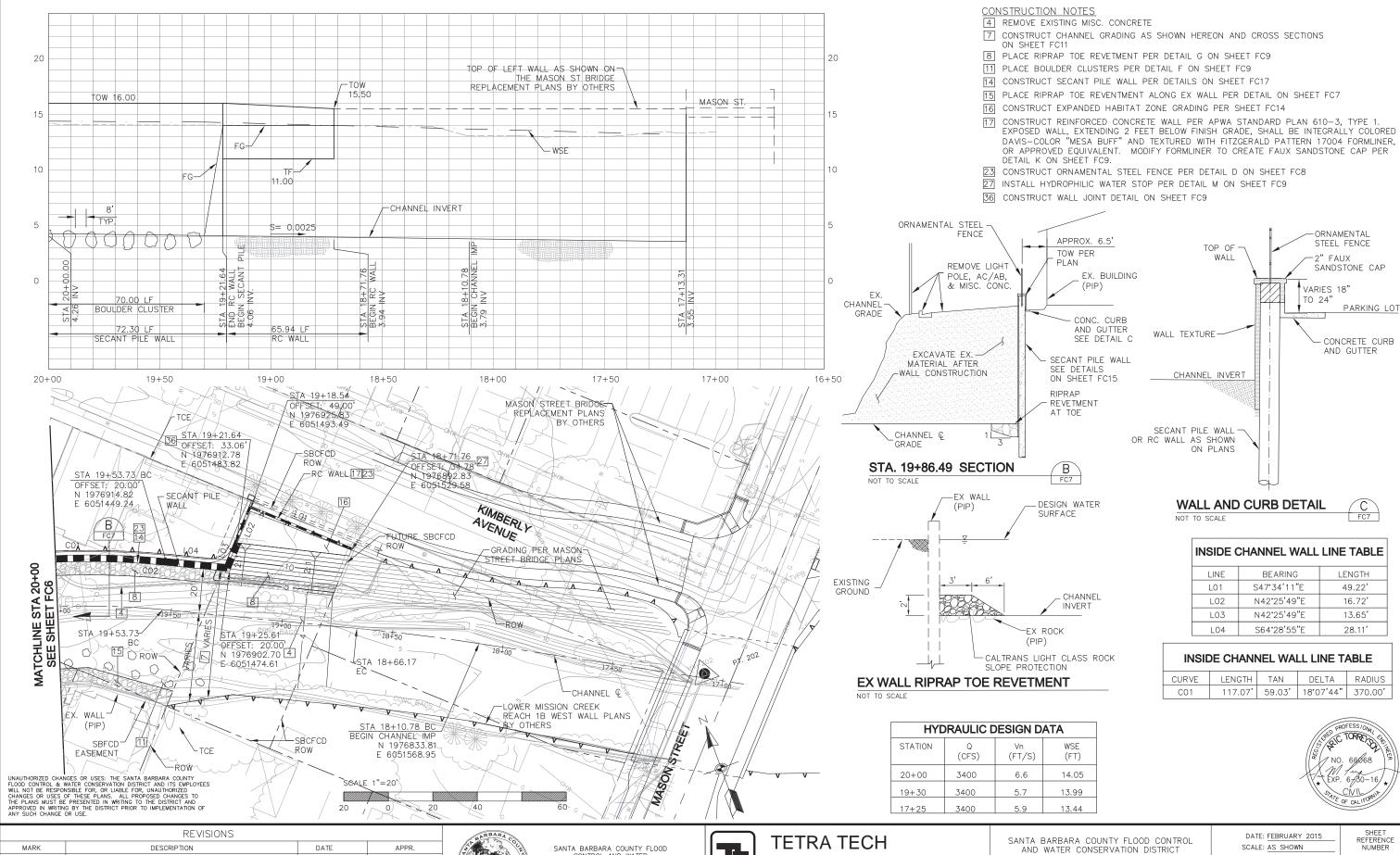
DESIGNED BY: AG DRAWN BY: AG CHECKED BY: YHC

SHEET REFERENCE

SHEET 4\_OF 17







800 WEST SIXTH STREET, SUITE 380 LOS ANGELES, CA 90017 213.327.0800

FEB. 24, 2015

Mlux

ARIC M. TORREYSON R.C.E 66068

SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTIRCT

123 F. ANAPAMU STREET SANTA BARBARA, CA 93101 805.568.3440

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SCALE: AS SHOWN

FILE NAME:

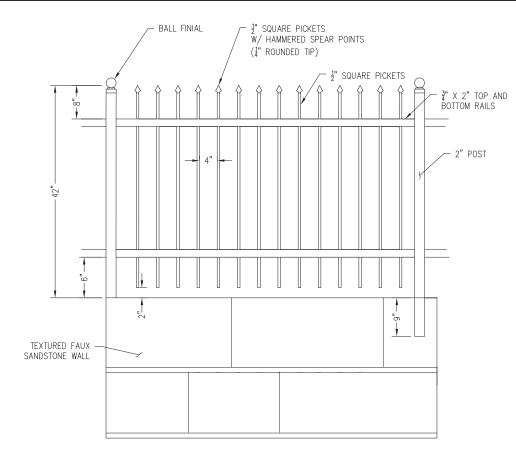
DESIGNED BY: AG

DRAWN BY: AG

CHECKED BY: YHC

LOWER MISSION CREEK FLOOD CONTROL PROJECT REACH 1B

PLAN AND PROFILE (2)

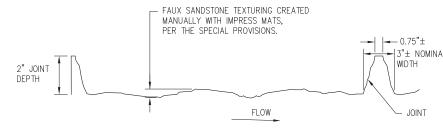


# ORNAMENTAL STEEL FENCE D

## - FAUX SANDSTONE TEXTURING CREATED MANUALLY WITH IMPRESS MATS, PER THE SPECIAL PROVISIONS. — | | — 0.75"± 3"± NOMINAL WIDTH FLOW

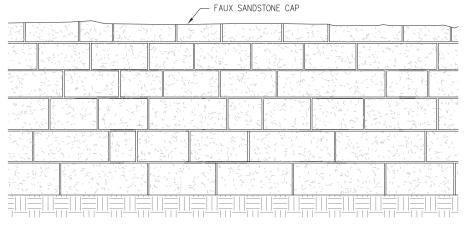
## WALL TEXTURE SECTION VIEW

# NOT TO SCALE



### FENCING AND WALL TEXTURE NOTES:

- 1. SANDSTONE BLOCK LENGTHS VARY 12", 18", 34", 40", 43" TYP.
- 2. SANDSTONE BLOCK HEIGHTS VARY FROM 20" TO 22" TYP. BLOCK HEIGHTS SHALL NOT BE GREATER THAN THE BLOCK HEIGHTS IN THE UNDERLYING ROW.
- 3. FAUX GROUTED JOINT DIMENSIONS AND TEXTURE VARIATION SHALL BE PER THE DETAIL ON THIS SHEET.
- 4. SANDSTONE CAP 9"-11" HEIGHT x 40" WIDTH x 24"-30" LENGTH.
- 5. SHOTCRETE SHALL BE INTERGALLY COLORED DAVIS- COLOR "MESA BLUFF", OR APPROVED EQUIVLANT.
- 6. ORNAMNETAL STEEL FENCE SHALL BE PAINTED MALAGA GREEN.
- 7. ORNAMENTAL STEEL FENCE SPEAR POINT TIPS SHALL BE LOCATED BETWEEN THE BOTTOM OF THE BALL FINIAL AND THE MID-POINT OF THE BALL FINIAL.
- 8. BALL FINIALS SHALL BE 2" DIAMETER.
- 9. ALL IRON SHALL BE SOLID STOCK AND GALVANIZED PRIOR TO CONSTRUCTION.



WALL TEXTURE DETAIL NOT TO SCALE



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 OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE PRESSINED IN WRITING TO THE DISTRICT AND APPROVED IN WRITING BY THE DISTRICT FRIOR TO IMPLEMENTATION OF ANY SUCH CHANGE OR USE.

	REVISIONS		
MARK	DESCRIPTION	DATE	APPR.



SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTIRCT 123 E. ANAPAMU STREET SANTA BARBARA, CA 93101 805.568.3440



TETRA TECH 800 WEST SIXTH STREET, SUITE 380 LOS ANGELES, CA 90017 213.327.0800 M Lug

ARIC M. TORREYSON R.C.E. 66068

FEB. 24, 2015

SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

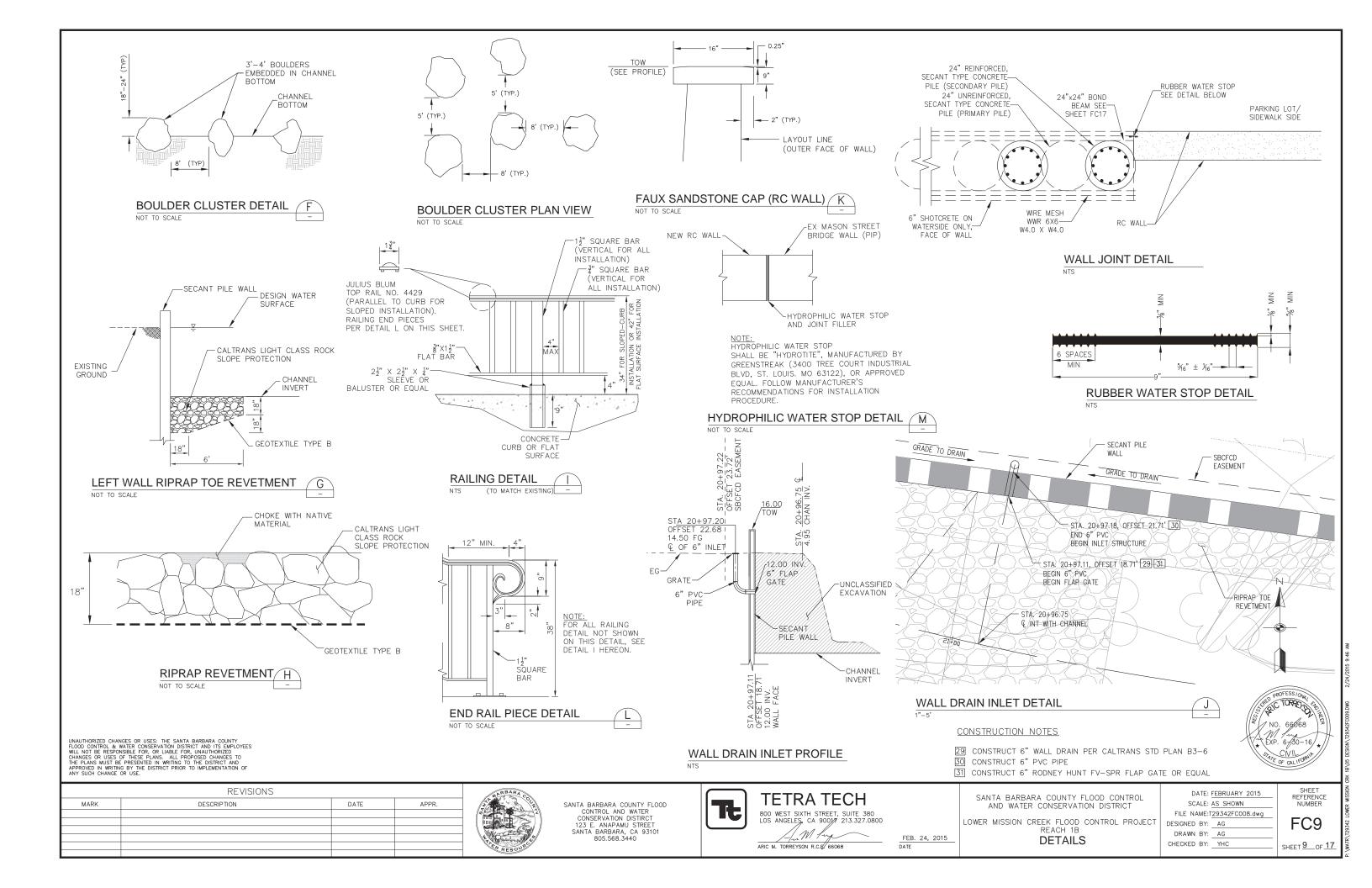
LOWER MISSION CREEK FLOOD CONTROL PROJECT

ENCING DETAILS AND WALL	
TREATMENT	

DATE: FEBRUARY 2015
SCALE: AS SHOWN
FILE NAME:
FSIGNED BY: AG

SHEET REFERENCE NUMBER DRAWN BY: AG CHECKED BY: YHC

SHEET 8 OF 17



#### CONSTRUCTION NOTES:

SEQUENCE OF CONSTRUCTION

NOTE: THE CONTRACTOR MAY SUBMIT ALTERNATIVE SECLIENCE OF CONSTRUCTION COFFERNAM ALICHMENTS AND DIVERSION PIPE CONFIGUARION FOR REVIEW AND APPROVAL BY THE ENGINEER SO LONG AS THE ALTERNATIVES ARE CONSISTENT WITH THE PROJECT PERMITS AND CONDITIONS OF APPROVAL

- 1. INSTALL TEMPORARY SECURITY FENCE
- CONSTRUCT COFFERDAM (USING SHEET PILE WALL) ALONG THE PROPOSED CREEK BED, OFFSET 1' FROM EXISTING TOE OF BANK. WITH UPSTREAM AND DOWNSTREAM BULKHEADS EXTENDING TO THE LIMITS OF THE PROPOSED IMPROVEMENTS SO THAT THE LEFT HALF OF THE CREEK (AREA 1) IS FULLY ISOLATED FROM THE FLOW BETWEEN THESE TWO BULKHEADS.

NOTE: AS A CONTRACTOR PROPOSED ALTERNATIVE, THE UPSTREAM AND DOWNSTREAM BULKHEADS MY BE CONSTRUCTED OF ALTERNITYE MATERIALS. PROVIDED THAT THE ALTERNATYE IS SUFFICIENT TO CONTROL WATER INFILTRATION INTO THE WORK AREA FOR THE CONSTRUCTION OPERATIONS AND TECHNIQUES EMPLOYED BY THE

- 3 INSTALL AND OPERATE DEWATERING SYSTEM AS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS
- GRADE AND FILL LEFT BANK AS NECESSARY TO PLACE SECANT PILE WALL WITHIN THE PROJECT LIMITS.

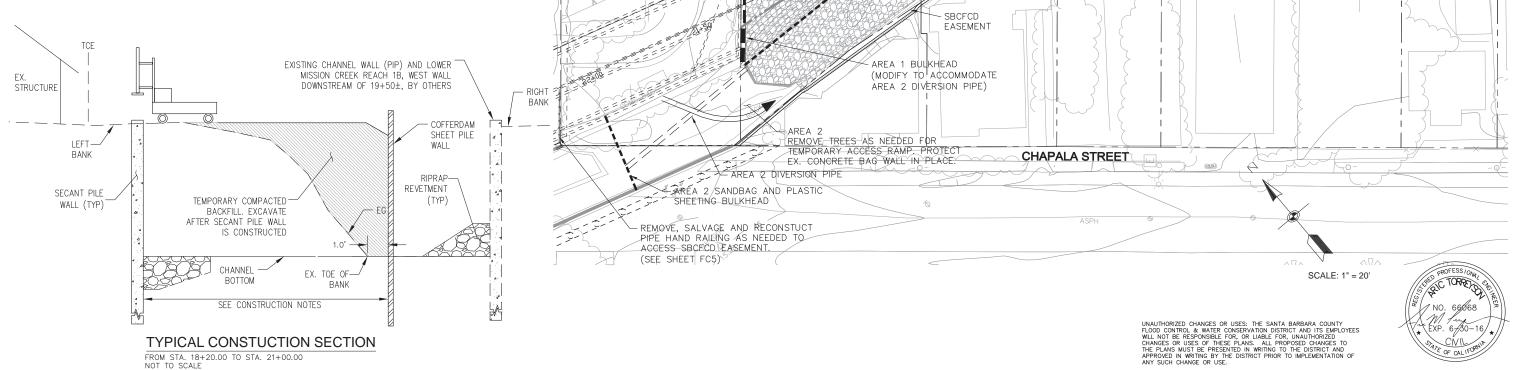
NOTE: THE CONTRACTOR MAY BEGIN PLACEMENT OF SECANT PILE WALLS PRIOR TO THE INSTALLTION OF COFFERDAMS IF SECANT PILE CONSTRUCTION ACTIVITIES CAN BE CONTAINED BEYOND THE EXISTING TOP OF CREEK BANK.

- 5. EXCAVATE EXCESS SOIL BETWEEN THE COFFER DAM AND THE NEW SEACNT PILE WALL
- 6. COMPLETE THE NEW WALL WITH 24" X 24" BOND BEAM, SHOTCRETE (COLORED AND TEXTURED) AND ORNAMENTAL STEEL FENCE.
- CONSTRUCT RIP-RAP TOE REVETMENT. FINE GRADE THE NEW CREEK BED AND PLACE BOULDER CLUSTERS.
- RELOCATE DOWNSTREAM BULKHEAD FROM LEFT BANK TO RIGHT BANK OF THE CREEK AND CONSTRUCT UPSTREAM COFFERDAM AND DIVERSION PIPE SO THAT THE RIGHT HALF OF THE CREEK (AREA 2) IS FULLY ISOLATED FROM THE FLOW. CONSTRUCT TEMPORARY ACCESS RAMP FROM THE INGRESS/EGRESS EASEMENT LOCATED ON 134 CHAPALA STREET ACROSS DIVERSION PIPE TO ACCESS AREA 2.

NOTE: BETWEEN THE DATES OF OCT 1ST AND DEC 1ST THE CONTRACTOR MAY BE DIRECTORED BY THE ENGINEER TO REMOVE AND RECONSTRUCT THE UPSTREAM COFFERDAM, DIVERSION PIPE AND TEMPORARY ACCESS RAMP IN THE EVENT OF FORECASTED STORMS RESULTING IN EXCESSIVE CREEK FLOWS, PER THE PROJECT SPECIAL PROVISIONS.

NOTE: AS A CONTRACTOR PROPOSED ALTERNATIVE, AREA 2 MAY BE CONSTRUCTED PRIOR TO AREA 1. SUCH AN ALTERNATIVE SHALL REQUIRE THAT THE LONGITUDINAL SHEET PILE COFFERDAM BE RELOCATED TO APPROXIMATELY THE CENTERLINE OF THE PRE-EXISTING CREEK CHANNEL.

- 9. INSTALL AND OPERATE DEWATERING SYSTEM AS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS.
- 10. GRADE AND FILL RIGHT BANK AS NECESSARY TO PLACE SECANT PILE WALL WITHIN THE PROJECT LIMITS.
- 11. FXCAVATE FXCESS SOIL BETWEEN THE COFFER DAM AND THE NEW SECANT PILE WALL



12. COMPLETE THE NEW WALL WITH 24" X 24" BOND BEAM, SHOTCRETE (COLORED AND TEXTURED) AND ORNAMENTAL

SECURITY FENCE. CLEANUP SITE, REPAIR DAMAGE TO TEMPORARY STAGING AREAS. LEAVE SITE IN CLEAN,

KIMBERLY AVENUE

135 KIMBERLY AVE.

EX. BUILDING (PIP)

13. CONSTRUCT RIP-RAP TOE REVETMENT, FINE GRADE THE NEW CREEK BED AND PLACE BOULDER CLUSTERS.

14. REMOVE COFFER DAM. DEWATERING SYSTEM. DIVERSION PIPE. TEMPORARY ACCESS RAMP AND TEMPORARY

ROW-

STEEL FENCE

REPAIRED AND ORDERLY CONDITION.

PROTECT EXISTING IMPROVEMENTS

ON 134 CHAPALA ST. ENCROACHMENT ON THIS PROPERTY BEYOND THE

EASEMENT SHOWN ON SHT FC5, IS

NOT PERMITTED UNLESS THE

CONTRACTOR NEGOTIATE SEPARATE

ACCESS RIGHTS.

134 CHAPALA ST

EX. BUILDING

(PIP)

NEEDED TO CONSTRUCT

SHOTCRETE AND RIPRAP

SHEET PILES FOR TEMPORARY SHORING AS

TOE REVETMENT

REVISIONS MARK DESCRIPTION DATE APPR ADDENDUM NO. MARCH 6, 2015 A.M.T



SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTIRCT 123 F ANAPAMII STREET SANTA BARBARA, CA 93101 805.568.3440



## TETRA TECH 800 WEST SIXTH STREET, SUITE 380

LOS ANGELES, CA 90017 213.327.0800 Mlux ARIC M. TORREYSON R.C.E 66068

FEB. 24, 2015

SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

EX DRIVEWAY TO BE USED AS-CONSTRUCTION ENTRANCE

₹C-WALL

SBCFCD

15 KIMBERLY AVE

FX BUILDING

(PIP)

- SBCFCD

WALL

EASEMENT

ARFA 2

NEW CHANNEL

TOE REVETMENT

AREA 1 SHEE

PILE BULKHEA -STAGING

OFFERDAM SHEET

PILE WALL

(BOTH PHASES)

ARÉA-

LOWER MISSION CREEK FLOOD CONTROL PROJECT REACH 1B

STAGING PLAN

DATE:	FEBRUARY 20°
SCALE:	AS SHOWN
FILE NAME:	T29342FC009.d

dwg DESIGNED BY: AG DRAWN BY: AG CHECKED BY: YHC

-MASON ST. BRIDGE PHASE

OTHERS TO BE REMOVED BETWEEN JUNE 1, 2015 TO

JULY 15, 2015.

SBCFO

LOWER MISSION CREEK REACH

1B-WEST WALL, PART OF

CONTRACT, SEE PLANS BY

MASON STREET BRIDGE

COFFERDAM, BY OTHERS.

THROUGH NOV. 30, 2015

TO BE INSTALLED BETWEEN

PHASE 2 SHEET PILE

JUNE TO JULY 2015

ROW

ARFA 2 SHFFT

PILE BULKHEAD

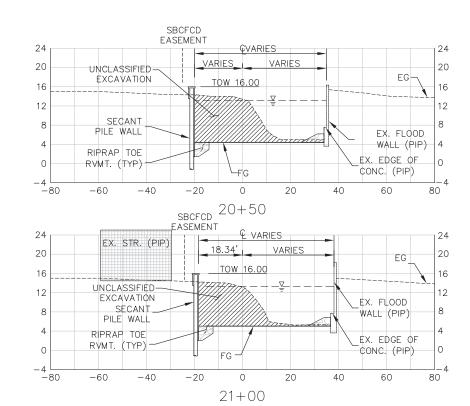
OTHERS.

SHEET PILE COFFERDAM BY

<sub>SHEET</sub>10\_<sub>OF</sub>\_17

SHEET REFERENCE NUMBER

ROW



CROSS SECTION NOTE:

THE CROSS SECTIONS SHOWN HEREON ARE VIEWED LOOKING DOWNSTREAM.



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 OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE PRESSINED IN WRITING TO THE DISTRICT AND APPROVED IN WRITING BY THE DISTRICT FRIOR TO IMPLEMENTATION OF ANY SUCH CHANGE OR USE.

	REVISIONS		
MARK	DESCRIPTION	DATE	APPR.



SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTIRCT 123 E. ANAPAMU STREET SANTA BARBARA, CA 93101 805.568.3440





ARIC M. TORREYSON R.C.E. 66068

FEB. 24, 2015 DATE

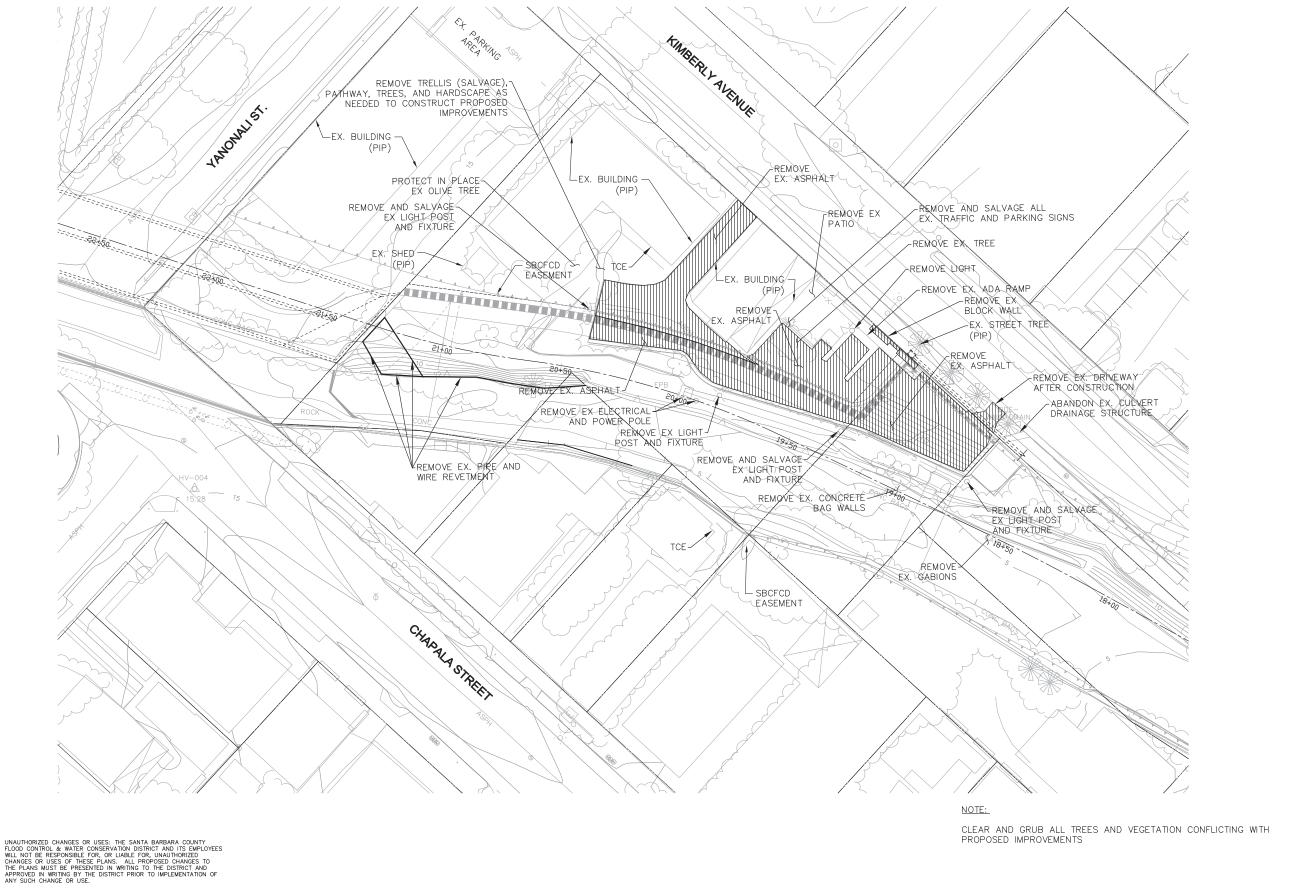
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

LOWER MISSION CREEK FLOOD CONTROL PROJECT REACH 1B **CROSS SECTIONS (1)** 

DATE:	FEBRUARY 2015
SCALE:	AS SHOWN
FILE NAME:	
DESIGNED BY:	AG
DRAWN BY:	AG
CHECKED BY:	YHC

SHEET REFERENCE NUMBER FC11

SHEET 11 OF 17



CONFLICTING WITH

NO. 66668

EXP. 6-30-16

PATE OF OAL FORM!

REVISIONS

MARK DESCRIPTION DATE APPR.



SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRECT 123 E. ANAPAMU STREET SANTA BARBARA, CA 93101 805.568.3440



# TETRA TECH

800 WEST SIXTH STREET, SUITE 380 LOS ANGELES, CA 90017 213.327.0800

ARIC M. TORREYSON R.C.E 66068

FEB. 24, 2015

SANTA BARBARA COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT

LOWER MISSION CREEK FLOOD CONTROL PROJECT

13310IN CINELIN I LOOD	CONTINUE	INOUL
REACH 1B		
DEMOLITION	PLAN	

DATE:	FEBRUARY 2015
SCALE:	AS SHOWN
FILE NAME:	
DESIGNED BY:	AG

DRAWN BY: AG

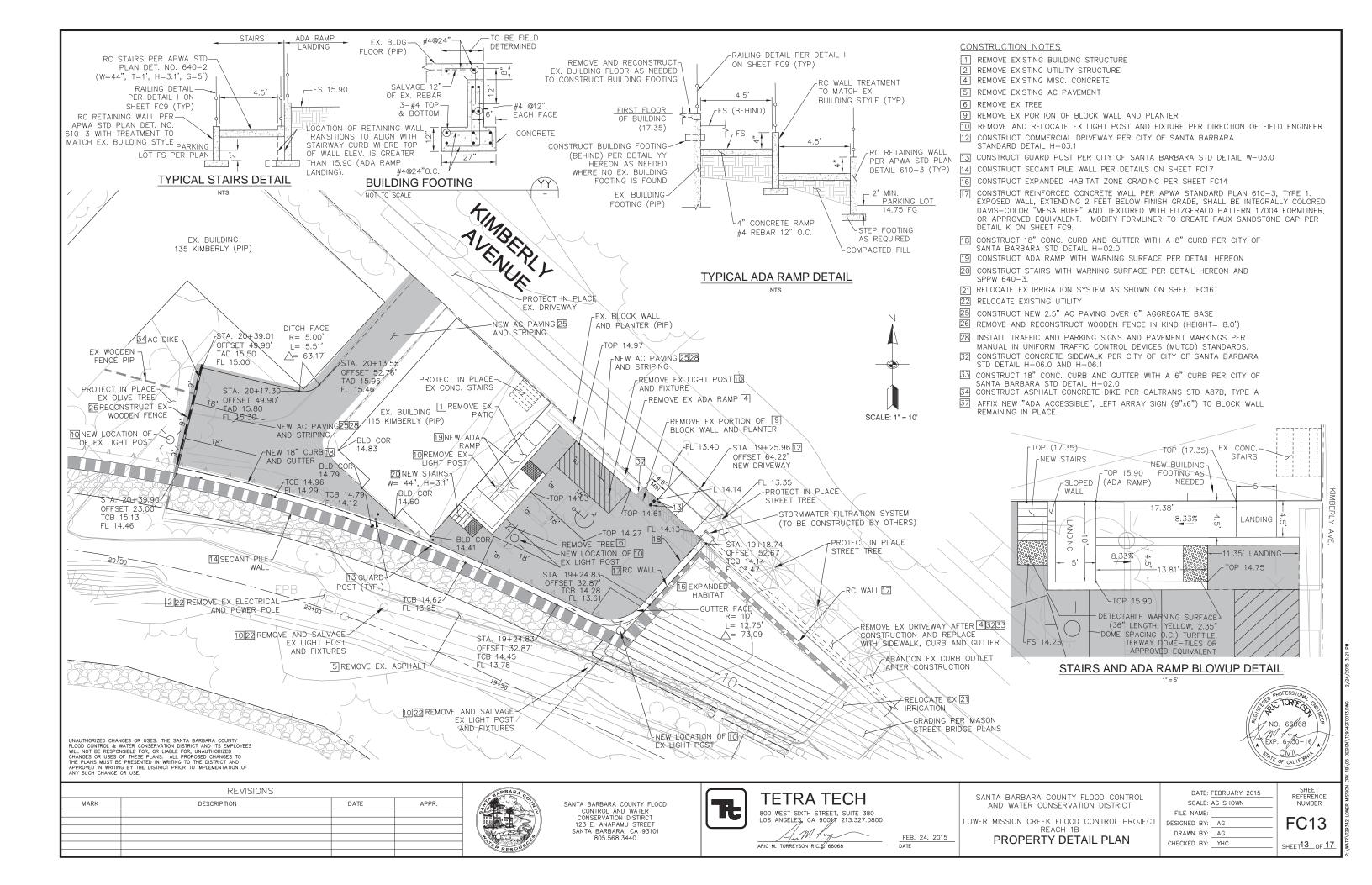
CHECKED BY: YHC

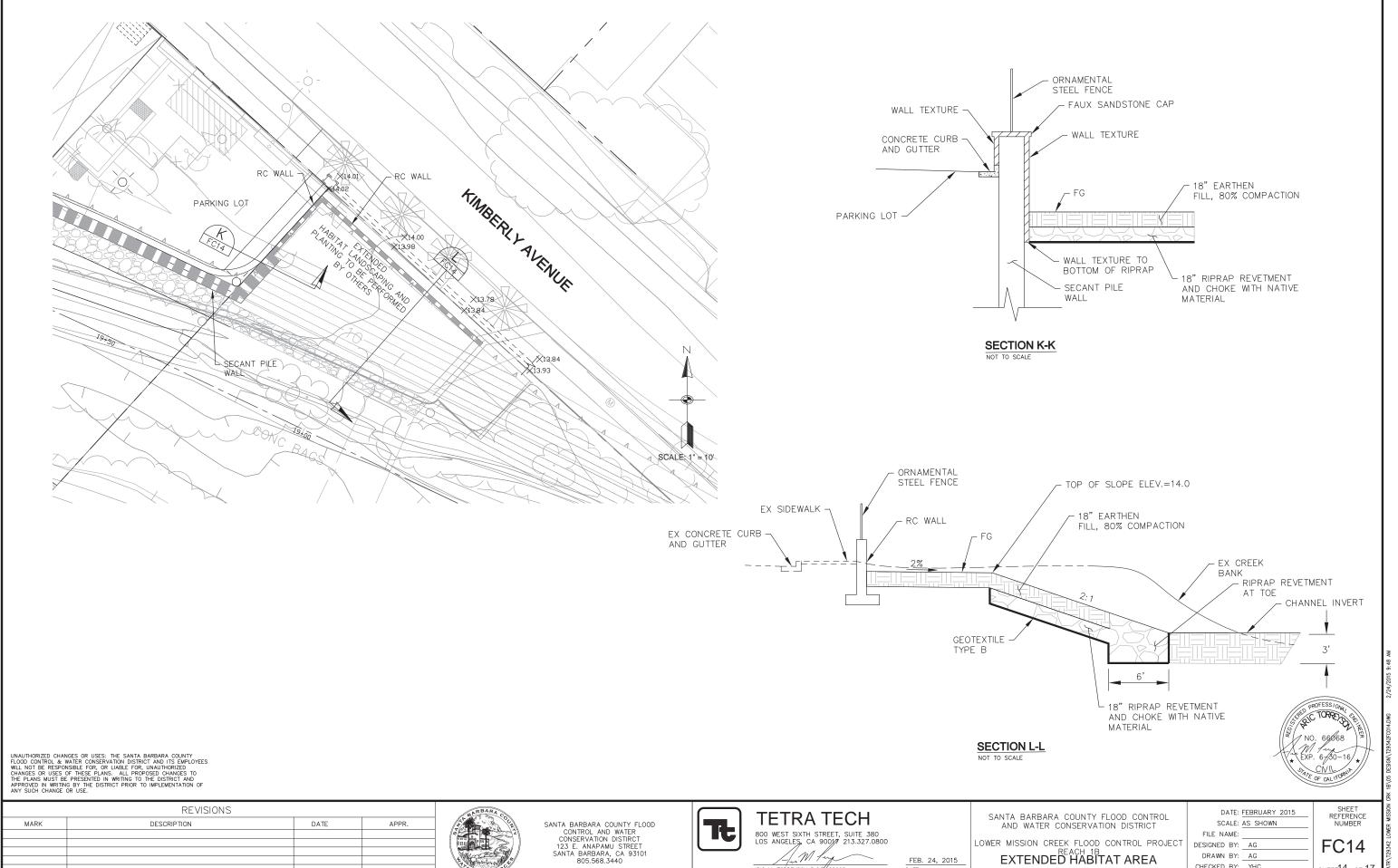
SCALE: 1" = 20'

SHEET REFERENCE NUMBER	
FC12	

SHEET 12\_OF\_17

| | | NESSION CRK 1B\05 DESIGN\T29342FC012.D





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ARIC M. TORREYSON R.C.E. 66068

FEB. 24, 2015

SHEET REFERENCE NUMBER FC14 SHEET 14 OF 17

FILE NAME: \_

DESIGNED BY: AG

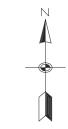
DRAWN BY: AG

CHECKED BY: YHC

LOWER MISSION CREEK FLOOD CONTROL PROJECT

EXTENDED HABITAT AREA

**GRADING PLAN** 



SCALE: 1" = 20'

ELECTRICAL NOTES:

CONTRACTOR SHALL COORDINATE SERVICE OUTAGE AND RECONNECTION WITH SCE, VERIZON, COX CABLE AND AFFECTED RESIDENTS.

EXISTING ELECTRICAL CONDUITS AS SHOWN HEREON ARE APPROXIMATE LOCATIONS THAT WERE TAKEN FROM THE AS-BUILT PLANS.

CONTRACTOR IS TO LOCATE AND VERIFY EXISTING ELECTRICAL CONDUITS FOR REMOVAL AND RELOCATION, PER CITY OF SANTA BARBARA BUILDING REQUIREMENTS.

	REVISIONS		
MARK	DESCRIPTION	DATE	APPR.

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 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 FRIOR TO IMPLEMENTATION OF ANY SUCH CHANGE OR USE.



SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTIRCT 123 F. ANAPAMU STREET SANTA BARBARA, CA 93101 805.568.3440



TETRA TECH 800 WEST SIXTH STREET, SUITE 380 LOS ANGELES, CA 90017 213.327.0800

M Lug ARIC M. TORREYSON R.C.E. 66068

FEB. 24, 2015

SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

LOWER MISSION CREEK FLOOD CONTROL PROJECT

KEACH ID
ELECTRICAL AND UTILITY
RELOCATIONS SITE PLAN

CHECKED BY: YHC

SHEET REFERENCE FC15

SHEET 15 OF 17

	REVISIONS					
MARK DESCRIPTION DATE APP						



SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRECT 123 E. ANAPAMU STREET SANTA BARBARA, CA 93101 805.568.3440



TETRA TECH 800 WEST SIXTH STREET, SUITE 380 LOS ANGELES, CA 90017 213.327.0800

M Luga ARIC M. TORREYSON R.C.E 66068

FEB. 24, 2015

SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

LOWER MISSION CREEK FLOOD CONTROL PROJECT

REACH	1B
IRRIGATION	SITE PLAN

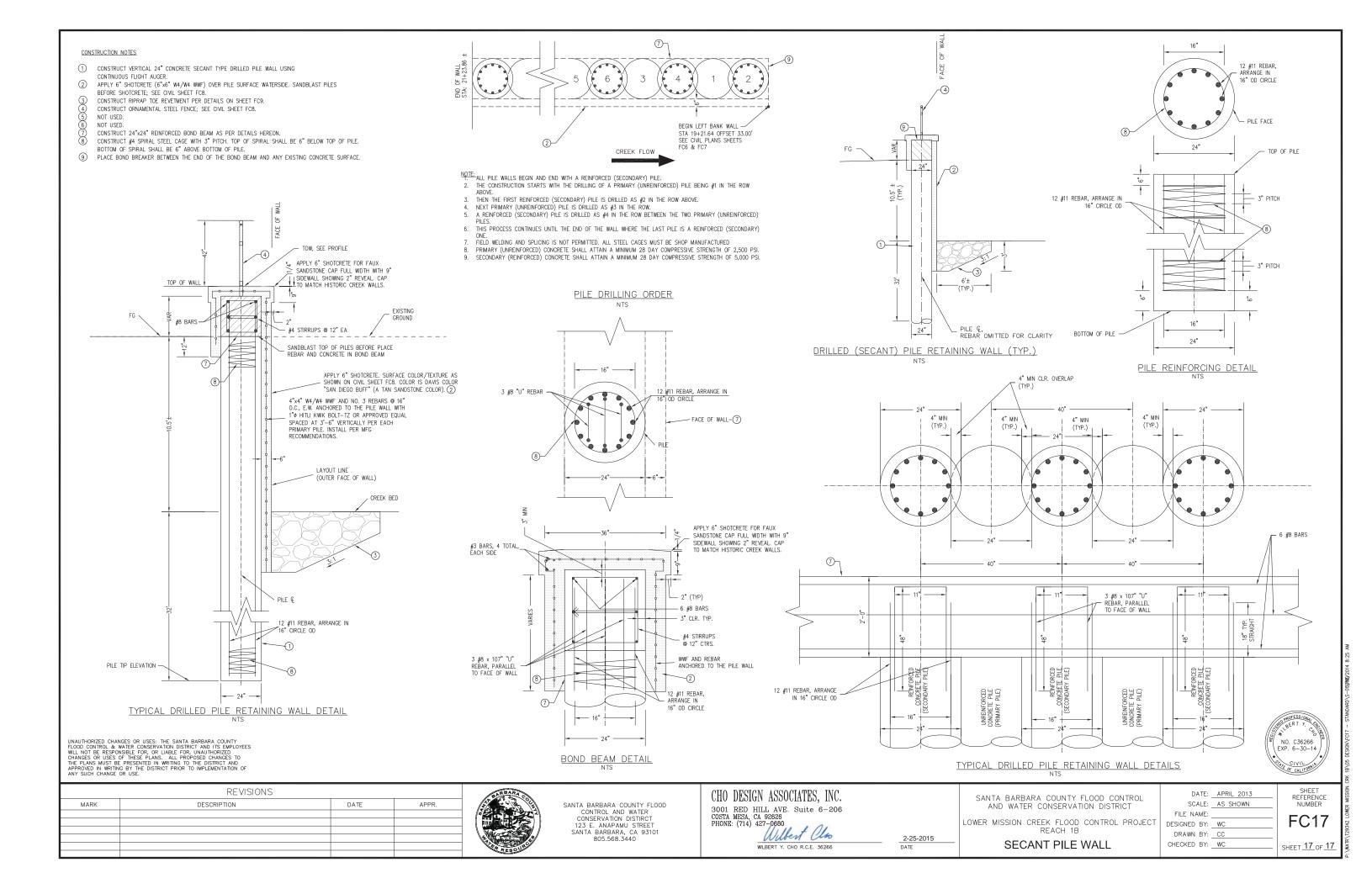
DATE:	FEBRUARY 2015
SCALE:	AS SHOWN
FILE NAME:	

DESIGNED BY: AG DRAWN BY: AG CHECKED BY: YHC

SCALE: 1" = 20'

SHEET 16 OF 17

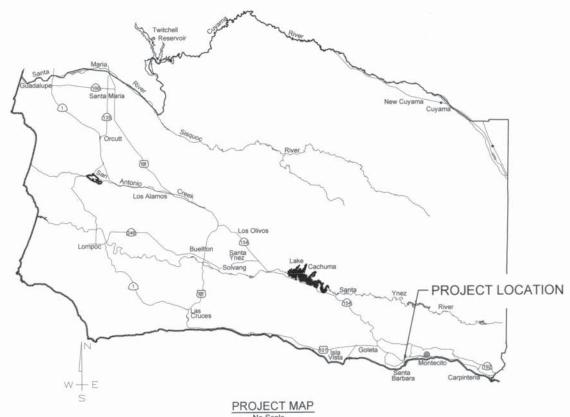
SHEET REFERENCE NUMBER FC16



# SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

# LOWER MISSION CREEK FLOOD CONTROL PROJECT REACH 1B - WEST WALL

BETWEEN MASON ST. AND YANONALI ST. IN THE CITY OF SANTA BARBARA

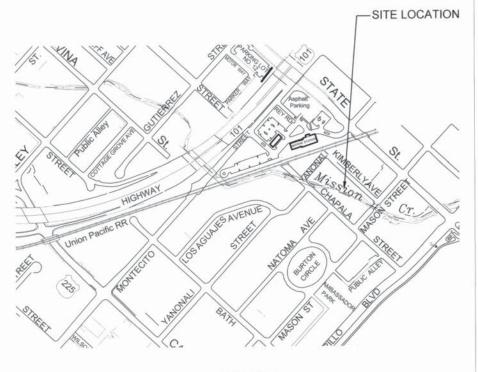


## DISTRICT BOARD OF DIRECTORS

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

## **INDEX TO SHEETS**

DESCRIPTION	SHEET NO
TITLE SHEET	FC1
GENERAL INFORMATION	FC2
RIGHT OF WAY AND EASEMENTS	FC3
KEY LINE GEOMETRY	FC4
MISSION CREEK WALL PLAN AND PROF	ILE FC5
MISSION CREEK CROSS-SECTIONS	FC6
MISSION CREEK WALL LAYOUT	FC7
MISSION CREEK WALL DETAILS	FC8
MISSION CREEK WALL DETAILS	FC9
FISH LEDGE WALL DETAILS	FC10
WALL COLOR AND TEXTURE DETAILS	FC11



SITE MAP No Scale

ALL UNDERGROUND UTILITIES SHOWN ARE PLOTTED BASED ON INFORMATIO 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 UNDERFROUND SERVICE ALERT A MINIMUM OF TWO WORKING DAYS PRIOR TO

#### LINAUTHORIZED CHANGES OR USE

THE SANTA BARBARA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT AND ITS EMPLOYEES WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, INAUTHORIZED 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

REVISIONS				Vi of Xen 2-1-15	original to be signed
NO.	DESCRIPTION	DATE	APR	FLOOD CONTROL ENGINEERING MANAGER DATE	FLOOD CONTROL MAINTENANCE SUPERINTENDENT DATE
				FLOOD CONTROL DEPUTY DIRECTOR 3-6-15	MOULEON SOLLON 3 5-15 FLOOD CONTROL ENVIRONMENTAL SERVICES MANAGER DATE
					original to be signed CITY OF SANTA BARBARA ENGINEER DATE

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





LOWER MISSION CREEK REACH 1B - WEST WALL

SANTA BARBARA COUNTY, CALIFORNIA





		/				
	DESIGNED BY:	F	(	1:1		
TITLE SHEET	DRAWN BY:			'		
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	CHECKED BY:	SHEET	1	OF	11	

#### **GENERAL NOTES**

- CONTRACTOR SHALL VERIFY SITE CONDITIONS, LOCATION AND SIZE OF UNDERGROUND UTILITIES AS SHOWN ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCING WORK
- 2. ALL FEES AND PERMITS SHALL BE PAID FOR BY THE CONTRACTOR.
- THE CONTRACTOR SHALL CALL DIG ALERT 811, PRIOR TO COMMENCING
- FOR BORING LOGS AND OTHER GEOTECHNICAL INFORMATION, SEE "GEOTECHNICAL ENGINEERING REPORT FOR LOWER MISSION CREEK CHANNEL IMPROVEMENT PROJECT- PHASE 2 (REACHES 1B AND 3-7)" BY BENGAL ENGINEERING, INC. DATED MARCH 11, 2011 AND "TECHNICAL MEMORANDUM- GEOTECHNICAL RECOMMENDATIONS FOR THE PROPOSED SECANT PILE RETAINING WALLS FOR THE LOWER MISSION CREEK CHANNEL IMPROVEMENT AND RESTORATION PROJECT- REACH 1B", DATED JULY 16, 2011. CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL GEOTECHNICAL REPORT AND UPDATES.
- CONTRACTOR IS ADVISED ADDITIONAL WORK BY OTHER CONTRACTORS MAY TAKE PLACE WITHIN AND ADJACENT TO THE PROJECT LIMITS. CONTRACTOR IS TO COORDINATE AND COOPERATE WITH OTHER CONTRACTORS AND GOVERNING AGENCIES AS REQUIRED
- SITE SECURITY DURING CONSTRUCTION SHOULD CONSIST OF TEMPORARY FENCING TO BE INSTALLED AND MAINTAINED BY THE CONTRACTOR DURING THE ENTIRE CONSTRUCTION OF THE PROJECT.

#### ENVIRONMENTAL CONTROL AND MAINTENANCE OF SITE CONDITIONS

- THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL AS REQUIRED THROUGHOUT CONSTRUCTION AND INSPECT EROSION CONTROLS ON A MINIMUM WEEKLY BASIS.
- 2. PRIOR TO THE BEGINNING OF ANY CONSTRUCTION THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL AND MAKE ANY REPAIRS
- THE CONTRACTOR'S STAGING AND STORAGE AREA SHALL CONFORM TO ALL EROSION CONTROL DETAILS AND SPECIFICATIONS. IF TEMPORARY DRAINAGE IS REQUIRED WITHIN THE STAGING AND STORAGE AREA IT SHALL CONFORM TO ALL EROSION CONTROL SPECIFICATIONS AND DETAILS AND APPROVED BY THE GOVERNING AGENCY PRIOR TO INSTALLATION.
- ALL SOILS STORED WITHIN THE CONTRACTOR STAGING AND STORAGE AREA SHALL BE SURROUNDED BY A SINGLE ROW OF STAKED HAY BALES AND COVERED TO PREVENT WIND EROSION.
- 5. ALL TREE PROTECTION SHALL BE MAINTAINED AND INSPECTED THROUGHOUT CONSTRUCTION.
- PRECAUTIONS SHALL BE TAKEN TO PREVENT AND CONTROL DUST FROM CONSTRUCTION OPERATIONS BECOMING A NUISANCE TO ADJACENT AREAS. SURROUNDING STREETS AND WALKWAYS SHALL BE SWEPT AND WASHED CLEAN ON A DAILY BASIS OR AS DIRECTED BY GOVERNING AGENCY. STOCKPILES AND UNSTABILIZED SURFACES SHALL BE KEPT
- 7. CONTRACTOR SHALL MAINTAIN VEHICULAR AND PEDESTRIAN TRAFFIC.
- UPON COMPLETION OF TRENCH BACKFILLING OR OTHER INDIVIDUAL ITEMS OF CONSTRUCTION, SURPLUS MATERIALS AND EQUIPMENT NO LONGER NEEDED SHALL BE IMMEDIATELY REMOVED, LEAVING THE CONSTRUCTION SITE AND SURROUNDINGS FREE AND CLEAN.
- AFTER WORK IS COMPLETE, SEWERS, DRAINS, MANHOLES, CATCH BASINS AND OTHER STRUCTURES SHALL BE CAREFULLY CLEANED OF DIRT, BROKEN MASONRY, MORTAR AND OTHER DEBRIS AND LEFT READY FOR

#### **CONSTRUCTION PHASING**

PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL:

- SUBMIT PLAN OF PROPOSED CONTRACTOR STAGING AND STORAGE AREA FOR REVIEW AND APPROVAL BY GOVERNING AGENCY.
- SUBMIT FOR APPROVAL A TRAFFIC PLAN SHOWING HOW ALL TRUCK MOVEMENTS TO AND FROM THE SITE ARE TO BE ACCOMPLISHED.
- REVIEW ALL EXISTING UTILITY INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS AND CONDUCT ALL OTHER ADDITIONAL RESEARCH REQUIRED TO CONFIRM EXISTING UTILITIES. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED
- SUBMIT TO THE GOVERNING AGENCY COMPLETE PHASING PLANS FOR REVIEW AND APPROVAL

#### SITE PREPARATION AND DEMOLITION

- CONTRACTOR SHALL DISPOSE OF ALL DEMOLISHED MATERIAL AND DEBRIS IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS HAVING JURISDICTION.
- 2. CONTRACTOR SHALL RESTORE TO THEIR ORIGINAL CONDITION ANY AREAS ADJACENT TO AND OUTSIDE THE LIMIT OF WORK WHICH ARE DISTURBED DURING CONSTRUCTION, AT THE CONTRACTOR'S OWN EXPENSE.
- 3. CONTRACTOR SHALL SAW CUT PAVEMENT WHERE PAVEMENT TO BE REMOVED ABUTS PAVEMENT WHICH IS TO REMAIN.
- 4. CONTRACTOR SHALL STOCKPILE ALL STRIPPED TOPSOIL OFFSITE.
- UTILITY SERVICES SHALL BE MAINTAINED TO ALL BUILDINGS BEING OCCUPIED AT ALL TIMES.
- CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE AT ALL TIMES WITHIN THE LIMIT OF WORK. THERE SHALL BE NO PONDING OF WATER OR EROSION OF LANDSCAPED AREAS AT ANY TIME
- 7. EXISTING UTILITIES SHALL BE PROTECTED IN PLACE, AND MAINTAINED IN GOOD WORKING CONDITION.

#### UTILITY

- CONTRACTOR SHALL VERIFY LOCATIONS, ELEVATIONS AND SIZES OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. CALL DIG ALERT AT 811, A MINIMUM OF TWO (2) FULL WORKING DAYS PRIOR TO EXCAVATING.
- CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER AND STORM DRAIN ELEVATIONS WHICH MAY REQUIRE POT-HOLING.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.
- 4. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL UTILITY WORK WITH THE ENGINEER.

#### FOUNDATIONS:

- 1. ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER PRIOR TO ANY CONSTRUCTION OR BACKFILL.
- 2. BACKFILL SHALL BE PLACED AND COMPACTED ON SIDES OF STRUCTURES SIMULTANEOUSLY.

#### CONCRETE

- 1. STRUCTURAL CONCRETE, INCLUDING ALL PRECAST COMPONENTS, SHALL ATTAIN A 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI LINLESS. OTHERWISE NOTED ON THE PLANS AND SHALL CONFORM TO THE REQUIREMENTS OF THE PROJECT SPECIFICATION
- 2. CONCRETE WORK SHALL BE COORDINATED AND VERIFIED WITH ALL OTHER WORK TO ENSURE PROPER PROVISIONS FOR DOWELS, INSERTS EMBEDMENTS, PIPING AND MANHOLE REQUIREMENTS PRIOR TO CONCRETE PLACEMENT
- 3. CONSTRUCTION JOINTS, IN ADDITION TO THOSE SHOWN ON THE DRAWINGS, SHALL NOT BE PERMITTED UNLESS ACCEPTED IN WRITING BY THE GOVERNING AGENCY

#### REINFORCEMENT

- 1. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60 UNLESS OTHERWISE NOTED
- 2. WELDED BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM, A706,
- 3. THE MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE 2", EXCEPT IT SHALL BE 3" FOR CONCRETE CAST DIRECTLY AGAINST EARTH UNLESS OTHERWISE NOTED.
- BARS SHALL BE MECHANICALLY SPLICED WHERE INDICATED ON THE DRAWINGS AND AS OTHERWISE REQUIRED TO ACCOMMODATE CONSTRUCTION SEQUENCING. MECHANICAL SPLICES SHALL DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR
- MECHANICAL SPLICES SHALL BE STAGGERED A MINIMUM OF 12" ADJACENT BARS U.O.N.



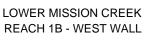
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT 130 E. VICTORIA STREET SANTA BARBARA CA 93101 (805) 568-3440











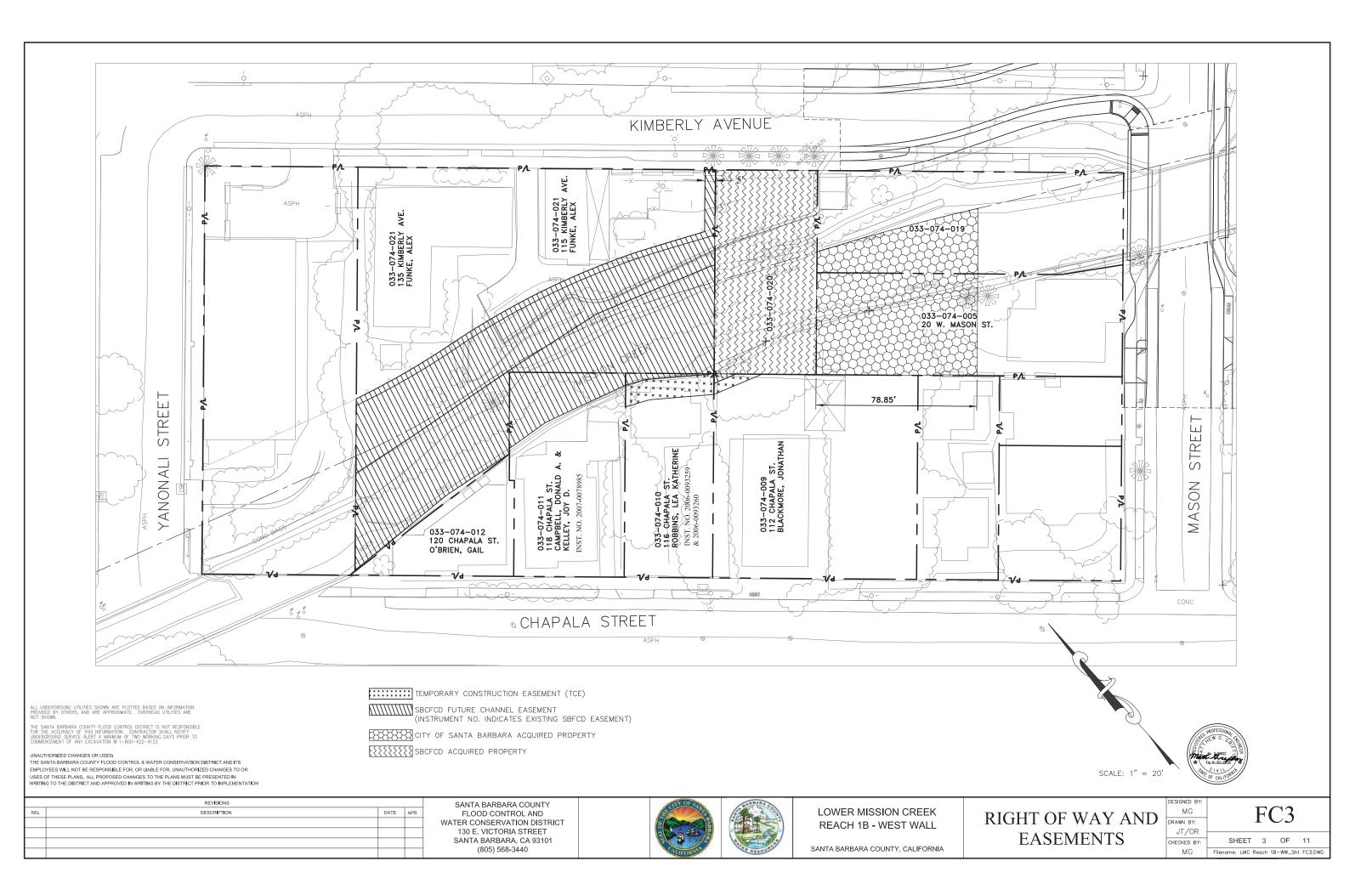
SANTA BARBARA COUNTY, CALIFORNIA

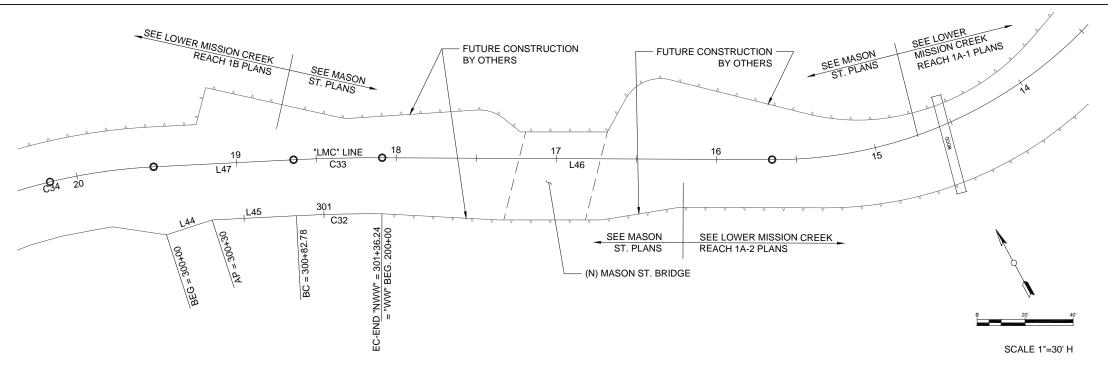
**GENERAL** INFORMATION

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SHEET 2 OF 11 Filename: XXXXXXX.DWG





"NWW" LINE							
SEGMENT ID	START STATION	LENGTH	END STATION	NORTHING	EASTING	DIRECTION/ DELTA	RADIUS
L44	300+00.00	30.00'	300+30.00	1976855.60	6051427.42	S79° 37' 50.13"E	
L45	300+30.00	52.79'	300+82.78	1976850.20	6051456.93	S64° 28' 54.79"E	
C32	300+82.78	53.45'	301+36.24	1976827.46	6051504.56	003°10'26"	965.00'

"LMC" LINE							
SEGMENT ID	START STATION	LENGTH	END STATION	NORTHING	EASTING	DIRECTION/ DELTA	RADIUS
L46	15+65.05	243.69'	18+08.74	1976716.82	6051782.71	N61° 18' 29.09"W	
C33	18+08.74	55.39'	18+64.13	1976833.81	6051568.94	003°10'26"	1000.00'
L47	18+64.13	87.56'	19+51.69	1976859.05	6051519.64	N64° 28' 54.79"W	
C34	19+51.69	131.04'	20+82.72	1976896.77	6051440.63	021°27'04"	350.00'

#### BENCHMARK

FOUND STANDARD USC&GS BRASS TIDAL STATION DISK (DESIGNATION 941 1340 TIDAL 1) STAMPED "BM 1 1930" NEAR THE INTERSECTION OF HELENA AVENUE AND EAST CABRILLO BLVD., SET IN THE TOP OF THE NE'LY END OF A 4' HIGH CONCRETE GUARDRAIL OF THE BRIDGE OVER MISSION CREEK, 52.5' SE'LY OF THE CENTERLINE OF CABRILLO BLVD.

ELEVATION = 16.16 FEET NAVD88.

#### SURVEY CONTROL

- TOPOGRAPHIC MAPPING WAS COMPILED AT A SCALE OF 1"=200", WITH A 1 FOOT CONTOUR INTERVAL, USING STANDARD PHOTOGRAMMETRIC METHODS AND PROCEDURES BY ARROWHEAD MAPPING CORPORATION, FROM AERIAL PHOTOGRAPHY DATED MAY 5, 2003.
- MAPPING IS SUPPLEMENTED BY DATA COLLECTED IN A FIELD SURVEY USING CONVENTIONAL METHODS AND PROCEDURES IN JUNE 2003 BY PENFIED & SMITH, AUGUST 2003 BY JOHNSON FRANK & ASSOCIATES AND IN AUGUST 2013 BY SANTA BARBARA COUNTY.
- 3. BEARINGS SHOWN ON THIS MAP ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, NAD 83, ZONE 5 GRID (EPOCH 1991.35), DEFINED LOCALLY BY THE SANTA BARBARA CONTROL NETWORK AS SHOWN ON RECORD OF SURVEY FILED WITH THE COUNTY SURVEYOR IN BOOK 147 PAGES 70-74. DISTANCES AND COORDINATES SHOWN AS MEASURED OR CALCULATED ARE EXPRESSED IN CCS, NAD 83, ZONE V GRID US SURVEY FOOT UNITS.
- 4. ELEVATIONS SHOWN HEREON ARE EXPRESSED IN U.S. SURVEY FEET AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), DEFINED LOCALLY BY THE SANTA BARBARA CONTROL NETWORK AS SHOWN ON RECORD OF SURVEY FILED WITH THE COUNTY SURVEYOR IN BOOK 147 PAGES 70-74.
- THIS PORTION OF LMC REACH 1B IS A CONTINUATION OF THE PROPOSED MASON ST. BRIDGE PROJECT. THE DESIGN OF THIS REACH IS PART OF THE GREATER LOWER MISSION CREEK PROJECT.



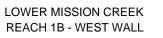
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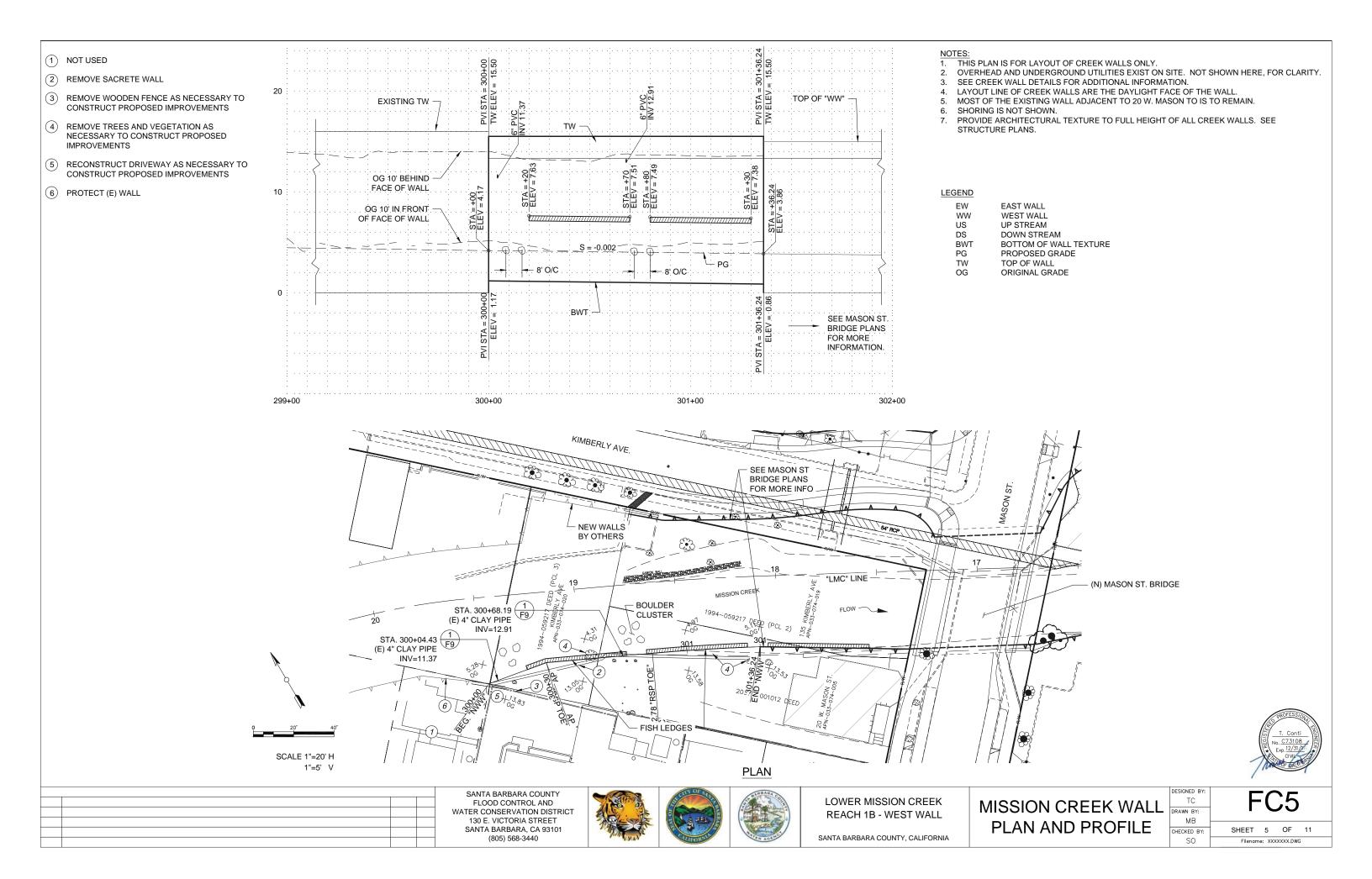


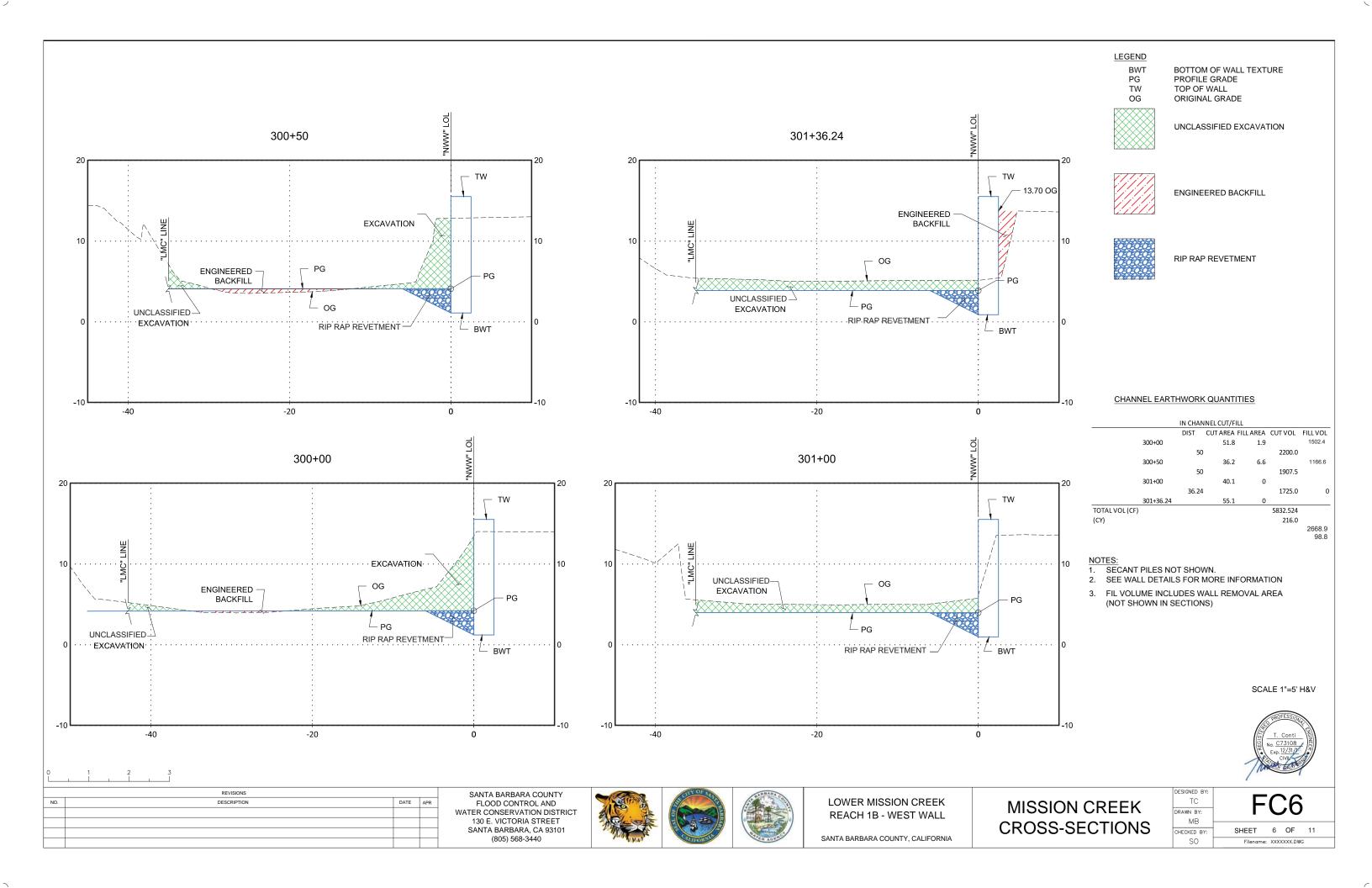


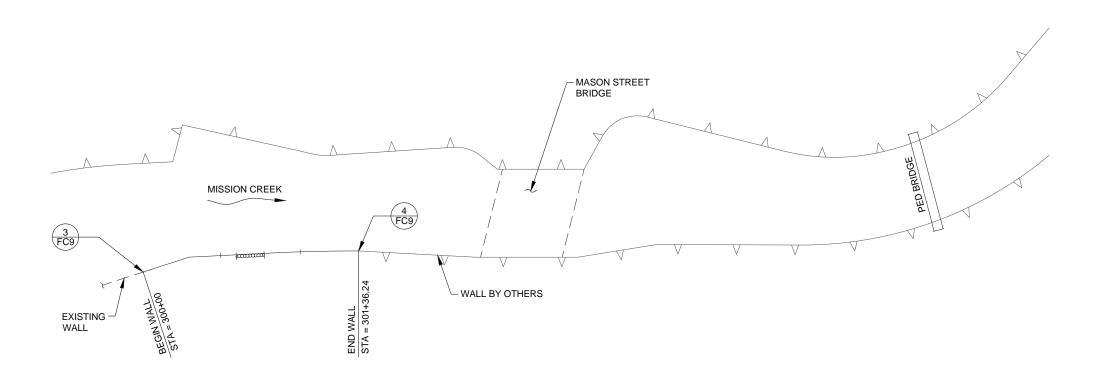
SANTA BARBARA COUNTY, CALIFORNIA

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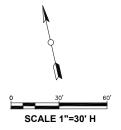






## MISSION CREEK WALL LAYOUT PLAN

NOTE: FOR INFO NOT SHOWN, SEE KEYLINE GEOMETRY SHEET FC4









LOWER MISSION CREEK REACH 1B - WEST WALL

SANTA BARBARA COUNTY, CALIFORNIA

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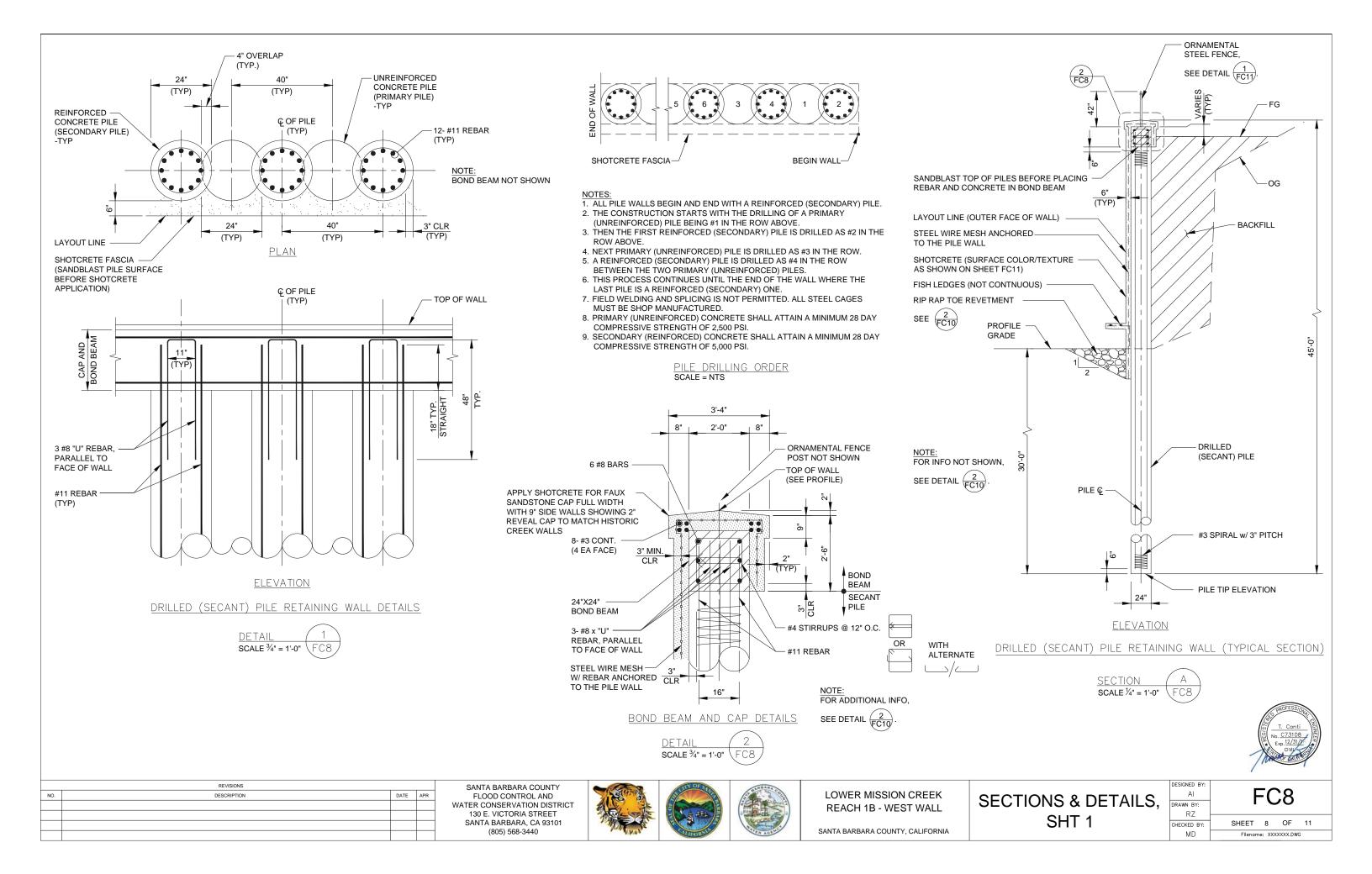
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT 130 E. VICTORIA STREET SANTA BARBARA, CA 93101 (805) 568-3440

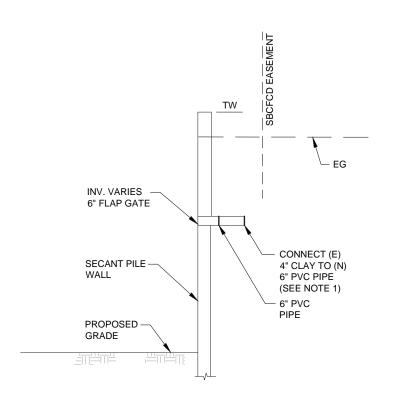
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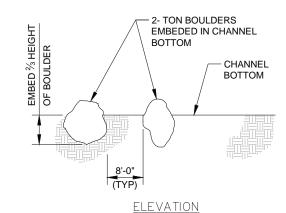
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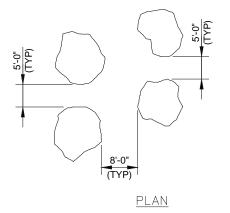
VALL	LAYOUT

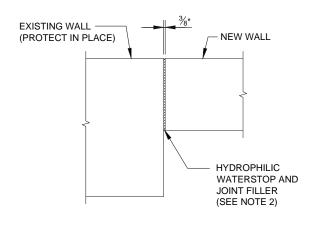
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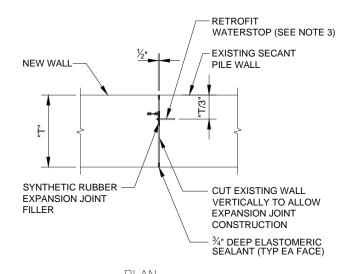
WALL DRAIN OUTLET PROFILE

SCALE 3/8" = 1'-0"

BOULDER CLUSTER DETAILS

SCALE: NTS





- 1. REALIGN PIPE AS NECESSARY TO PENETRATE UN-REINFORCED (PRIMARY) PILE.
- 2. HYDROPHILIC WATERSTOP SHALL BE "HYDROTITE", MANUFACTURED BY GREENSTREAK (3400 TREE COURT INDUSTRIAL BLVD, ST. LOUIS, MO 63122), OR APPROVED EQUAL. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION PROCEDURE.
- 3. RETROFIT WATERSTOP SHALL BE "JP320L", MANUFACTURED BY JP SPECIALTIES (551 BIRCH ST, LAKE ELSINORE, CA 92530), OR APPROVED EQUAL. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION PROCEDURE.

PLAN		
DETAIL	4	RFF
SCALE <sup>3</sup> / <sub>4</sub> " = 1'-0"	FC9	FC7



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





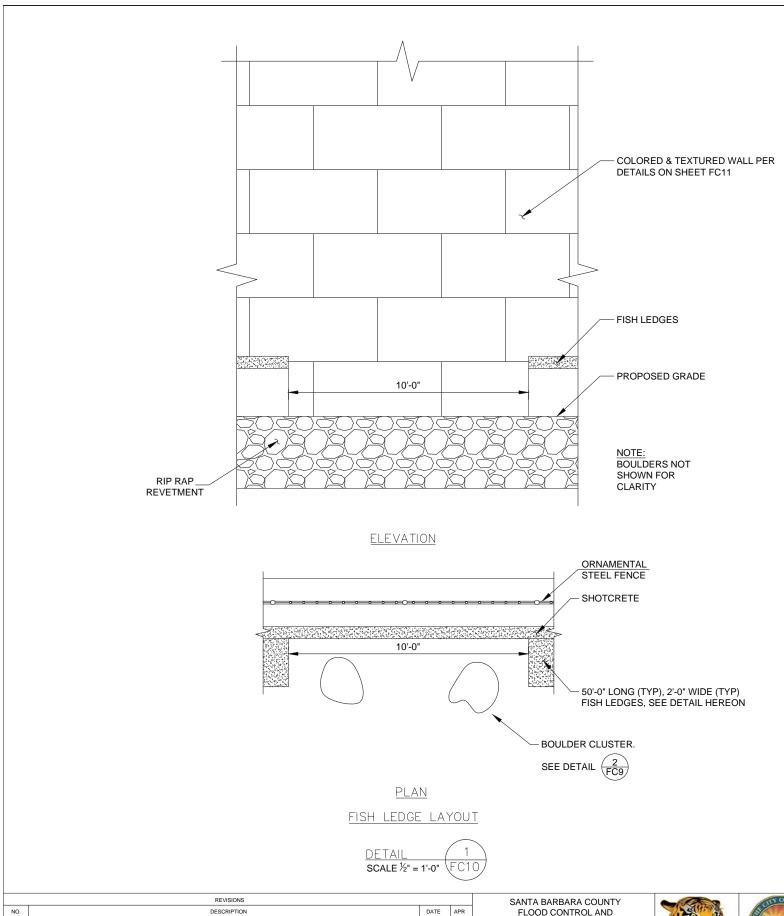


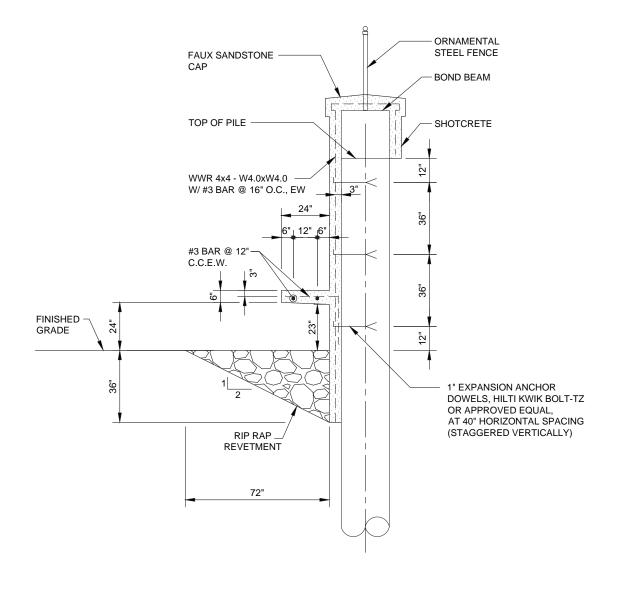
LOWER MISSION CREEK REACH 1B - WEST WALL

SANTA BARBARA COUNTY, CALIFORNIA

**SECTIONS & DETAILS** SHT 2

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ELEVATION

FISH LEDGE

DETAIL 2 SCALE ½" = 1'-0" FC10



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



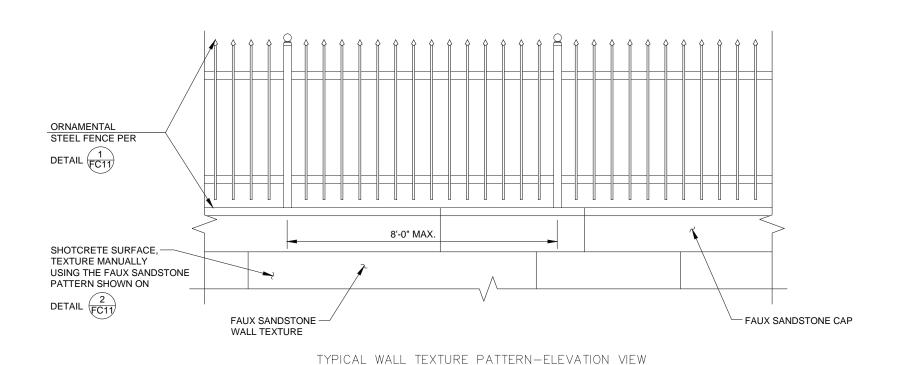




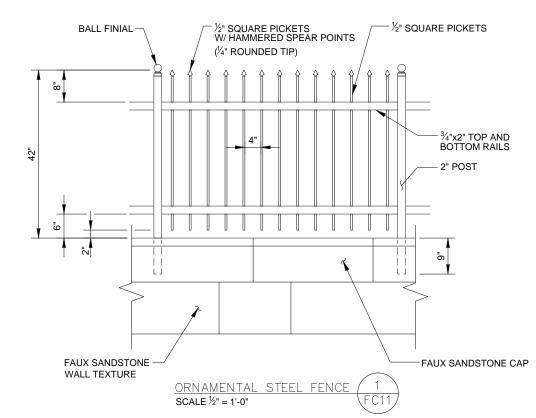
LOWER MISSION CREEK REACH 1B - WEST WALL

SANTA BARBARA COUNTY, CALIFORNIA

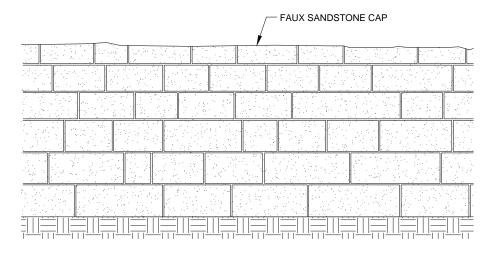
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SCALE 1" = 1'-0"

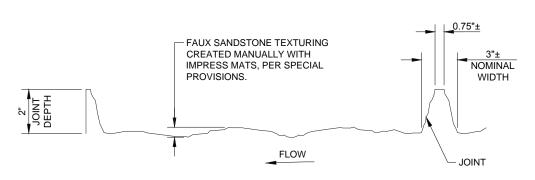


- $\frac{\text{NOTES:}}{\text{1. THE TEXTURE IS INTENDED TO REPLICATE THE HISTORIC}}$ MISSION CREEK SANDSTONE WALLS LOCATED AT THE SANTA BARBARA TRAIN STATION.
- 2. WALL COLOR SHALL BE DAVIS COLOR, "MESA BUFF" (A TAN SANDSTONE COLOR).
- 3. SANDSTONE BLOCK HEIGHT VARY FROM 20" TO 22" TYP. BLOCK HEIGHT SHALL NOT BE GREATER THAN BLOCK HEIGHTS IN UNDERLYING ROW.
- 4. SANDSTONE BLOCK LENGTHS VARY; 18", 34", 40", 43" TYP.
- 5. FAUX GROUTED JOINT DIMENSIONS AND TEXTURE VARIATION SHALL BE PER THE DETAIL ON THIS SHEET.
- 6. SANDSTONE CAP, 9"-11" HEIGHT x 40" WIDTH x 24"-30" LENGTH.
- 7. SEE THE SPECIAL PROVISIONS FOR MORE INFORMATION.
- 8. ORNAMENTAL STEEL FENCE SHALL BE PAINTED MALAGA GREEN.
- 9. ORNAMENTAL STEEL FENCE SPEAR POINTS SHALL BE LOCATED BETWEEN BOTTOM OF THE BALL FINIAL AND MID-POINT OF BALL FINIAL.



FAUX SANDSTONE WALL TEXTURE PATTERN





FAUX SANDSTONE WALL TEXTURE SECTION VIEW SCALE: NTS



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







LOWER MISSION CREEK REACH 1B - WEST WALL

<b>FAUX SANDSTONE</b>
WALL DETAILS

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