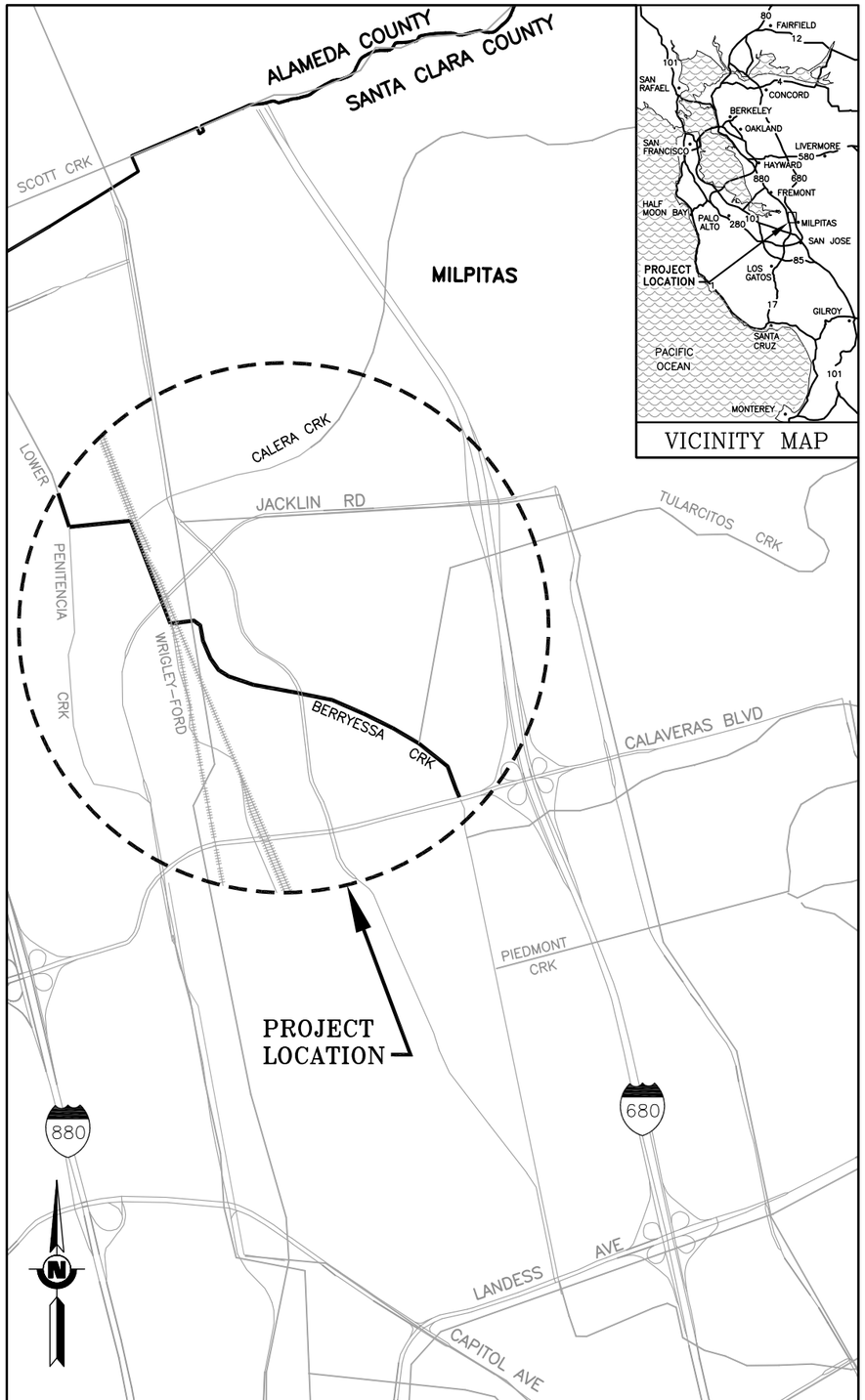


LOCATION MAP
SCALE: 1"=1,200'

MAP AND CONSTRUCTION PLAN

FOR

LOWER BERRYESSA CREEK PROJECT

Santa Clara Valley Water District SM

APPROVED BY:

REGISTERED PROFESSIONAL ENGINEER
DENNIS WING YAW CHEONG
No. 48911
9/30/10
CIVIL
STATE OF CALIFORNIA

DENNIS CHEONG, P.E. DATE
SENIOR PROJECT MANAGER
COYOTE AND PAJARO WATERSHEDS PROJECTS UNIT

MELANIE RICHARDSON DATE
DEPUTY OPERATING OFFICER
WATERSHEDS CAPITAL DIVISION

ACCEPTED BY:

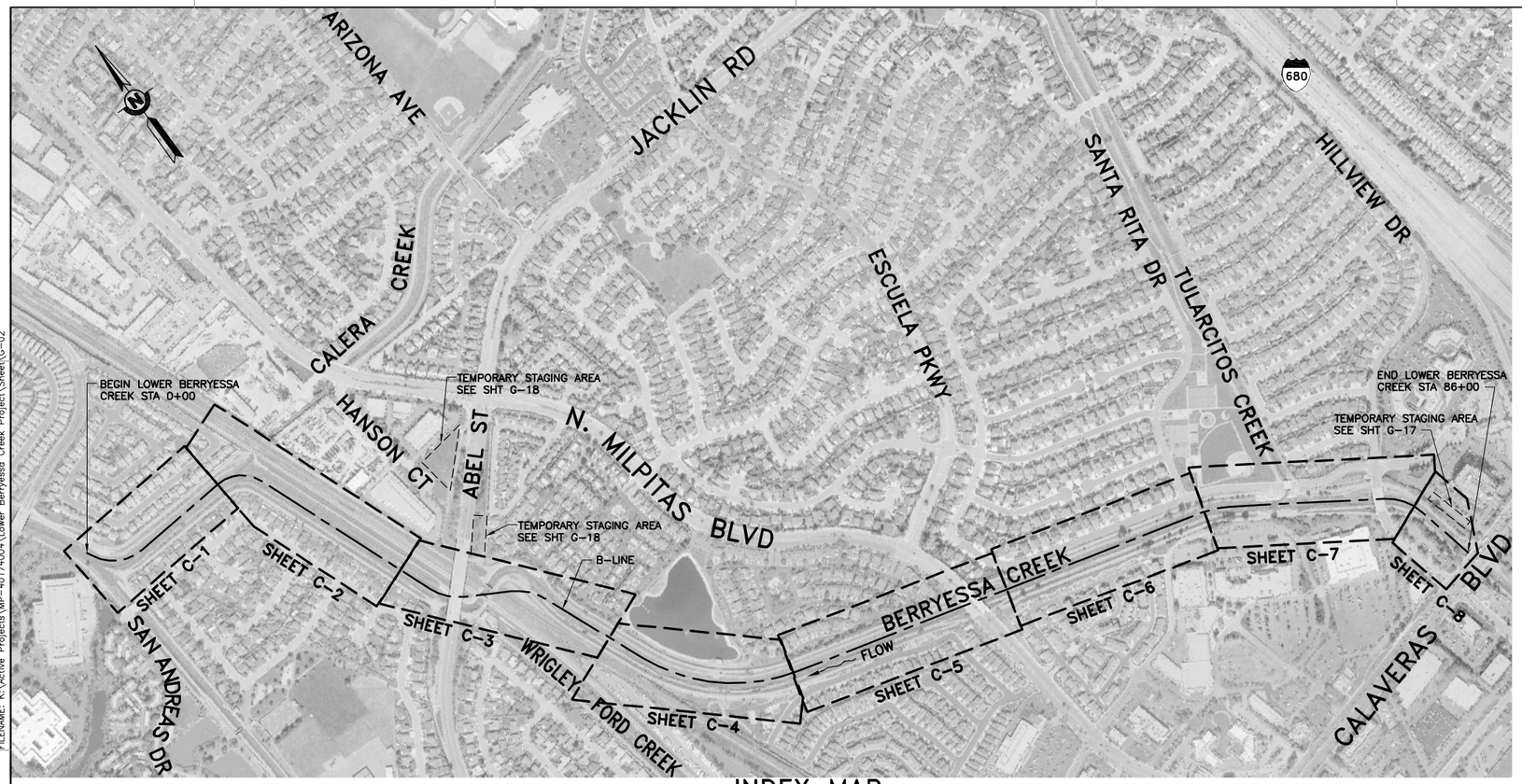
LIANG LEE, P.E DATE
DEPUTY OPERATING OFFICER
COYOTE & PAJARO WATERSHED DIVISION

60% PRELIMINARY
02-22-11

CONTRACT NUMBER
PROJECT NUMBER 40174004
SHEET CODE: G-1
SHEET NUMBER: 1 OF 94

USERNAME: JENNFORD Fri 18 Feb 2011 02:36pm
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\G-01

DOCUMENT NUMBER: BER_CY-G-4017-0000000.00



INDEX MAP

SCALE: 1"=400'

GENERAL NOTES

1. ALL EXISTING FACILITIES, STRUCTURES, TREES, FENCES, LANDSCAPING, ETC., DESIGNATED "EXIST". OR SHOWN EXISTING (DASHED LINES) ARE TO REMAIN. ONLY THOSE SPECIFICALLY DESIGNATED FOR REMOVAL AS SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER SHALL BE REMOVED.
2. ALL REFERENCES MADE TO RIGHT OR LEFT AND ALL CROSS-SECTIONS SHOWN ON THE PLANS ARE VIEWED LOOKING UPSTREAM.
3. LOCATIONS AND DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE BASED ON INFORMATION FROM THE UTILITY COMPANY AND ARE TO BE CONSIDERED AS APPROXIMATE ONLY.
4. PRIOR TO PERFORMING ANY WORK IN THE VICINITY OF EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL VERIFY THEIR LOCATION AND DEPTH AND TAKE PROPER PRECAUTIONS TO AVOID ANY DAMAGE TO THEM. CALL U.S.A. (UNDERGROUND SERVICE ALERT) 48 HOURS PRIOR TO COMMENCING WORK AT (800) 227-2600 FOR LOCATION.
5. THE CONTRACTOR SHALL INSTALL TEMPORARY FENCES AND OTHER WARNING SIGNS OR DEVICES AS REQUIRED.
6. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
7. THE CONTRACTOR SHALL NOTIFY UPRR REPRESENTATIVES AT LEAST 5 WORKING DAYS IN ADVANCE, PRIOR TO COMMENCING WITH ANY WORK WITHIN 25 FEET OF ANY UPRR TRACK. ANY FLAG PERSONS OR OTHER SPECIAL PROTECTION AND SAFETY MEASURES PERFORMED BY UPRR SHALL BE AT THE CONTRACTOR'S EXPENSE. UPRR ESTIMATES COST FOR FLAGGING TO BE APPROXIMATELY $750 TO $1000 PER DAY.
8. THE CONTRACTOR'S OPERATIONS SHALL NOT INFRINGE ON THE FOLLOWING MINIMUM CLEARANCES FROM ANY RAILROAD TRACK: 12'-0" HORIZONTALLY FROM THE NEAREST CENTER LINE OF TRACK AND 23'-0" VERTICALLY ABOVE TOP OF RAIL.
9. ALL PEOPLE WORKING ON THE PROJECT WITHIN UPRR RIGHT-OF-WAY REQUIRE CALTRANS RAIL ROAD SAFETY TRAINING AND SAFETY STICKERS ATTACHED TO THEIR CONSTRUCTION HARD HAT.

DESIGN NOTES

1. DISCHARGE CRITERIA:
   A. Q_{100} = 5,100 CFS AT CALAVERAS BLVD CONFLUENCE.
2. MANNINGS ROUGHNESS COEFFICIENT (N) IS:
   A. NATURAL CHANNEL = 0.015 – 0.05
3. UNIT STRESSES FOR REINFORCED CONCRETE ARE AS FOLLOWS:
   A. CONCRETE fc' = 4,000 PSI OR AS OTHERWISE SPECIFIED.
   B. STEEL fy = 60,000 PSI OR AS OTHERWISE SPECIFIED.
4. SURVEY DATA:
   BASIS OF ELEVATION: NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88) MEASURED IN U.S. SURVEY FEET
   BASIS OF BEARING: NORTH AMERICAN HORIZONTAL DATUM 1983 (NAD83), CALIFORNIA STATE PLANE COORDINATE SYSTEM ZONE III, U.S. FEET
5. SEE SHTS G-4 THRU G-10 FOR SURVEY LAYOUT AND SURVEY LAYOUT DATA

DRAWING INDEX

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G-2	INDEX MAP, DRAWING INDEX, DESIGN NOTES AND GENERAL NOTES	2 OF 94
G-3	ABBREVIATIONS, LEGEND AND SYMBOLS	3 OF 94
G-4	SURVEY LAYOUT LOWER BERRYESSA CREEK STA 0+00 TO STA 12+00	4 OF 94
G-5	SURVEY LAYOUT LOWER BERRYESSA CREEK STA 12+00 TO STA 22+50	5 OF 94
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G-8	SURVEY LAYOUT LOWER BERRYESSA CREEK STA 67+00 TO STA 77+50	8 OF 94
G-9	SURVEY LAYOUT LOWER BERRYESSA CREEK STA 77+50 TO STA 86+00	9 OF 94
G-10	SURVEY LAYOUT DATA	10 OF 94
G-11	RIGHT OF WAY MAP AND STAGING PLAN LOWER BERRYESSA CREEK STA 0+00 TO STA 10+50	11 OF 94
G-12	RIGHT OF WAY MAP AND STAGING PLAN LOWER BERRYESSA CREEK STA 10+50 TO STA 23+00	12 OF 94
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G-14	RIGHT OF WAY MAP AND STAGING PLAN LOWER BERRYESSA CREEK STA 36+00 TO STA 49+50	14 OF 94
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G-16	RIGHT OF WAY MAP AND STAGING PLAN LOWER BERRYESSA CREEK STA 61+50 TO STA 73+50	16 OF 94
G-17	RIGHT OF WAY MAP AND STAGING PLAN LOWER BERRYESSA CREEK STA 73+50 TO STA 86+00	17 OF 94
G-18	STAGING PLAN DETAIL	18 OF 94

SHEET CODE / SHEET DESCRIPTION / SHEET NO.

SHEET CODE	SHEET DESCRIPTION	SHEET NO.
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C-2	PLAN AND PROFILE LOWER BERRYESSA CREEK STA 9+00 TO STA 21+00	20 OF 94
C-3	PLAN AND PROFILE LOWER BERRYESSA CREEK STA 21+00 TO STA 34+00	21 OF 94
C-4	PLAN AND PROFILE LOWER BERRYESSA CREEK STA 34+00 TO STA 45+00	22 OF 94
C-5	PLAN AND PROFILE LOWER BERRYESSA CREEK STA 45+00 TO STA 58+00	23 OF 94
C-6	PLAN AND PROFILE LOWER BERRYESSA CREEK STA 58+00 TO STA 70+00	24 OF 94
C-7	PLAN AND PROFILE LOWER BERRYESSA CREEK STA 70+00 TO STA 82+00	25 OF 94
C-8	PLAN AND PROFILE LOWER BERRYESSA CREEK STA 82+00 TO STA 86+00	26 OF 94
C-9	PLAN AND PROFILE MAINTENANCE RAMPS STA 2+20 TO STA 3+75; STA 22+07 TO STA 23+57	27 OF 94
C-10	PLAN AND PROFILE MAINTENANCE RAMP STA 54+18 TO STA 58+68	28 OF 94
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C-14	BORING LOCATIONS	32 OF 94
C-15	FLOODWALL PROFILES – DEVELOPED ELEVATIONS STA 0+00 TO 21+00	33 OF 94
C-16	FLOODWALL PROFILES – DEVELOPED ELEVATIONS STA 21+00 TO 45+00	34 OF 94
C-17	FLOODWALL PROFILES – DEVELOPED ELEVATIONS STA 45+00 TO 70+00	35 OF 94
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X-3	CROSS SECTIONS LOWER BERRYESSA CREEK STA 4+00 TO STA 5+50	53 OF 94
X-4	CROSS SECTIONS LOWER BERRYESSA CREEK STA 6+00 TO STA 7+50	54 OF 94
X-5	CROSS SECTIONS LOWER BERRYESSA CREEK STA 8+00 TO STA 9+50	55 OF 94
X-6	CROSS SECTIONS LOWER BERRYESSA CREEK STA 10+00 TO STA 11+50	56 OF 94
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X-8	CROSS SECTIONS LOWER BERRYESSA CREEK STA 14+00 TO STA 15+50	58 OF 94
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X-10	CROSS SECTIONS LOWER BERRYESSA CREEK STA 18+00 TO STA 19+50	60 OF 94
X-11	CROSS SECTIONS LOWER BERRYESSA CREEK STA 20+00 TO STA 21+50	61 OF 94
X-12	CROSS SECTIONS LOWER BERRYESSA CREEK STA 22+00 TO STA 23+50	62 OF 94
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X-14	CROSS SECTIONS LOWER BERRYESSA CREEK STA 26+00 TO STA 27+50	64 OF 94
X-15	CROSS SECTIONS LOWER BERRYESSA CREEK STA 28+00 TO STA 29+50	65 OF 94
X-16	CROSS SECTIONS LOWER BERRYESSA CREEK STA 30+00 TO STA 31+50	66 OF 94
X-17	CROSS SECTIONS LOWER BERRYESSA CREEK STA 32+00 TO STA 33+50	67 OF 94
X-18	CROSS SECTIONS LOWER BERRYESSA CREEK STA 34+00 TO STA 35+50	68 OF 94
X-19	CROSS SECTIONS LOWER BERRYESSA CREEK STA 36+00 TO STA 37+50	69 OF 94
X-20	CROSS SECTIONS LOWER BERRYESSA CREEK STA 38+00 TO STA 39+50	70 OF 94
X-21	CROSS SECTIONS LOWER BERRYESSA CREEK STA 40+00 TO STA 41+50	71 OF 94
X-22	CROSS SECTIONS LOWER BERRYESSA CREEK STA 42+00 TO STA 43+50	72 OF 94
X-23	CROSS SECTIONS LOWER BERRYESSA CREEK STA 44+00 TO STA 45+50	73 OF 94
X-24	CROSS SECTIONS LOWER BERRYESSA CREEK STA 46+00 TO STA 47+50	74 OF 94
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X-26	CROSS SECTIONS LOWER BERRYESSA CREEK STA 50+00 TO STA 51+50	76 OF 94
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X-34	CROSS SECTIONS LOWER BERRYESSA CREEK STA 66+00 TO STA 67+50	84 OF 94
X-35	CROSS SECTIONS LOWER BERRYESSA CREEK STA 68+00 TO STA 69+50	85 OF 94
X-36	CROSS SECTIONS LOWER BERRYESSA CREEK STA 70+00 TO STA 71+50	86 OF 94
X-37	CROSS SECTIONS LOWER BERRYESSA CREEK STA 72+00 TO STA 73+50	87 OF 94
X-38	CROSS SECTIONS LOWER BERRYESSA CREEK STA 74+00 TO STA 75+50	88 OF 94
X-39	CROSS SECTIONS LOWER BERRYESSA CREEK STA 76+00 TO STA 77+50	89 OF 94
X-40	CROSS SECTIONS LOWER BERRYESSA CREEK STA 78+00 TO STA 79+50	90 OF 94
X-41	CROSS SECTIONS LOWER BERRYESSA CREEK STA 80+00 TO STA 81+50	91 OF 94
X-42	CROSS SECTIONS LOWER BERRYESSA CREEK STA 82+00 TO STA 83+50	92 OF 94
X-43	CROSS SECTIONS LOWER BERRYESSA CREEK STA 84+00 TO STA 85+50	93 OF 94
X-44	CROSS SECTIONS LOWER BERRYESSA CREEK STA 86+00	94 OF 94

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-22-11		

REFERENCE INFORMATION AND NOTES
1. AERIAL PHOTOGRAPHY WAS TAKEN APRIL 2002.

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
INDEX MAP, DRAWING INDEX, DESIGN NOTES AND GENERAL NOTES

SCALE: 1" = 400'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: G-2
SHEET NUMBER: 2 OF 94

DOCUMENT NUMBER: BER_CY-G-4017-XXXXX

USERNAME: JENNFORD Fri 18 Feb 2011 02:39pm
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\G-02

ABBREVIATIONS

ABM – AIR BLOWN MORTAR
ABS – ACRYLONITRILE–BUTADIENCE–STYRENE
AC – ASPHALT CONCRETE
ACP – ASBESTOS CEMENT PIPE
AISI – AMERICAN IRON & STEEL INSTITUTE
ALIGN – ALIGNMENT
AMP – AMPERES
ANSI – AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX – APPROXIMATE
ARV – AIR RELEASE VALVE
ASA – AMERICAN STANDARD ASSOCIATION
ASTM – AMERICAN SOCIETY FOR TESTING MATERIALS
AWG – AMERICAN WIRE GAGE
AWWA – AMERICAN WATER WORKS ASSOCIATION

BC – BEGIN CURVE
BM – BENCH MARK
BT – BACKHOE TRENCH
BVCE – BEGIN VERTICAL CURVE ELEVATION
BVCS – BEGIN VERTICAL CURVE STATION
BW – BOTH WAYS

℄ – CENTERLINE
CB – CATCH BASIN (INLET)
CCCL – CEMENT MORTAR COATED & LINED STEEL PIPE
CCEM – CEMENT CONDUIT
CCTL – CORROSION CONTROL TEST LEADS
CCP – CONCRETE CYLINDER PIPE
CFM – CUBIC FEET PER MINUTE
CI – CAST IRON
CIP – CAST IRON PIPE
CL – CLEARANCE
CLR – CLEAR
CLSM – CONTROLLED LOW–STRENGTH MATERIAL
CMC – CEMENT MORTAR COAT
CML – CEMENT MORTAR LINE
CMP – CORRUGATED METAL PIPE
CO – CLEAN OUT
CONC – CONCRETE
CONT – CONTINUOUS
CP – CEMENT PIPE
CPC – PLASTIC CONDUIT
CSP – CORRUGATED STEEL PIPE
CTP – CABLE TELEVISION POLE
CTV – CABLE TV
CU FT – CUBIC FEET
CYL – CYLINDER
CIPP – CAST–IN–PLACE PIPE

DH – DRILL HOLES
DIA – DIAMETER
DICL – DUCTILE IRON CEMENT LINED
DIP – DUCTILE IRON PIPE
DPDT – DOUBLE POLE DOUBLE THROW
D/S – DOWNSTREAM
DWR – DEPARTMENT OF WATER RESOURCES

EC – END CURVE
ELEC – ELECTRICAL
ELEV – ELEVATION
EP – EDGE OF PAVEMENT
EVCE – END VERTICAL CURVE ELEVATION
EVCS – END VERTICAL CURVE STATION
EXIST – EXISTING

FF – FULL FORCE
FH – FIRE HYDRANT
FKCL – FIBERGLASS–KRAFT WRAP CEMENT LINED
FLG – FLANGE
FP – FEEDER PRESSURE
FT – FEET

GA – GAGE
GALV – GALVANIZED
GFI – GROUND FAULT INTERRUPTER

HC – HOUSE CONNECTION (SANITARY)
HMW/PE – HIGH MOLECULAR WEIGHT POLYETHYLENE
HORIZ – HORIZONTAL
HP – HORSEPOWER

ID – INSIDE DIAMETER
IF – INSIDE FACE
IL – INDUCTIVE LOOP
IN – INCH
INSUL – INSULATION

INV – INVERT
IP – IRON PIPE
IPS – IRON PIPE SIZE

JT – JOINT TRENCH

KV – KILO VOLT

LB – CONDUIT FITTING ELBOW
LG – LONG
LLV – LONG LEG VERTICAL
LT – LEFT

MAINT – MAINTENANCE
MAX – MAXIMUM
MCD – MULTIPLE CONDUITS
MCI – MCI TELECOMMUNICATION CORP.
MH – MANHOLE
MIN – MINIMUM
MON – MONUMENT
MW – MONITORING WELL

N – NITROGEN
N/A – NOT APPLICABLE
NE – NORTHEAST
NEMA – NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NO – NUMBER
NTS – NOT TO SCALE
NW – NORTHWEST

OC – ON CENTER
OD – OUTSIDE DIAMETER
OF – OUTSIDE FACE
OH – OVERHEAD
OW – OBSERVATION WELL

℘ – PROPERTY LINE
PCC – PORTLAND CEMENT CONCRETE
PCCP – PRESTRESSED CONCRETE CYLINDER PIPE
PE – PLAIN END
PG&E – PACIFIC GAS AND ELECTRIC
PI – POINT OF INTERSECTION
PK – PARKER–KALON SURVEY NAIL
PL – PLASTIC LINE
POT – POINT ON TANGENT
PP – POWER POLE
PRC – POINT OF REVERSE CURVE
PSI – POUND PER SQUARE INCH
PT&T – PACIFIC TELEPHONE AND TELEGRAPH
PUE – PUBLIC UTILITY EASEMENT
PV – PRECAST VAULT
PVC – POLYVINYL CHLORIDE
PVMT – PAVEMENT
PW – PUMPING WELL

R – RADIUS
RCB – REINFORCED CONCRETE BOX
RCP – REINFORCED CONCRETE PIPE
RE – REFERENCE ELECTRODE
REBAR – REINFORCING BAR
REINF – REINFORCED
REQ'D – REQUIRED
RR – RAILROAD
RT – RIGHT
RTU – REMOTE TERMINAL UNIT
R/W – RIGHT OF WAY

S – SLOPE
SCHED – SCHEDULE
SCVWD – SANTA CLARA VALLEY WATER DISTRICT
SD – STORM DRAIN
SE – SOUTHEAST
SHT – SHEET
SJMW – SAN JOSE MUNICIPAL WATER
SJWC – SAN JOSE WATER COMPANY
SOMCL – STANDARD OIL MASTIC CEMENT LINED
SPECS – SPECIFICATIONS
SPRR – SOUTHERN PACIFIC RAILROAD
SQ – SQUARE
SS – SANITARY SEWER
SSTL – STAINLESS STEEL
ST – STREET
STA – STATION
STD – STANDARD
STL – STEEL
STRD – STRANDED
SW – SOUTHWEST
SYM – SYMMETRICAL

T – TELEPHONE
T – THICKNESS OF PLATE OR DIMENSION OF WELD
TBM – TEMPORARY BENCH MARK
TC – TELEMETRY CABLE
TCA – TEMPORARY CONSTRUCTION AREA
TCE – TEMPORARY CONSTRUCTION EASEMENT
TCS – TELEMETRY CABLE SPLICE
TEL – TELEPHONE
THW – THERMAL PLASTIC MOISTURE AND HEAT RESISTANT
THWN – THERMAL PLASTIC WITH NYLON COATING MOISTURE AND HEAT RESISTANT
TOB – TOP OF BANK
TP – TEST PIT LOCATION
TR – TAPE WRAPPED
TS – TRAFFIC SIGNAL
TYP – TYPICAL

UG – UNDERGROUND
UPRR – UNION PACIFIC RAILROAD
U/S – UPSTREAM
USGS – UNITED STATES GEOLOGICAL SURVEY

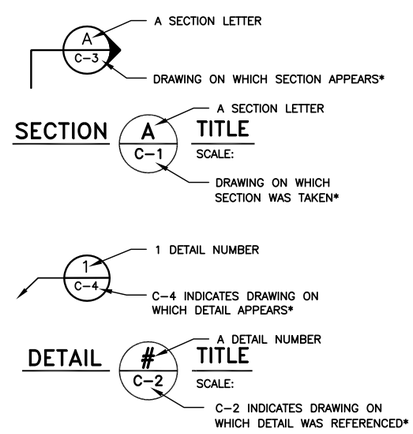
V – VOLTAGE
VAC – VOLTAGE ALTERNATING CURRENT
VCD – VACANT CONDUIT
VCP – VITRIFIED CLAY PIPE
VERT – VERTICAL

W – WATER
WP – WORK POINT
WSP – WELDED STEEL PIPE
WSCL – WRAPPED STEEL CEMENT LINED
WV – WATER VALVE
WWF – WELDED WIRE FABRIC
W/ – WITH

& – AND
@ – AT
℄ – CENTERLINE
Ø – DIAMETER
℘ – PROPERTY LINE

DETAIL AND SECTION DESIGNATION

* IF SECTION OR DETAIL APPEARS ON THE SAME DRAWING AS THE CALLOUT, THE DRAWING REFERENCE IS REPLACED WITH A DASH (–)



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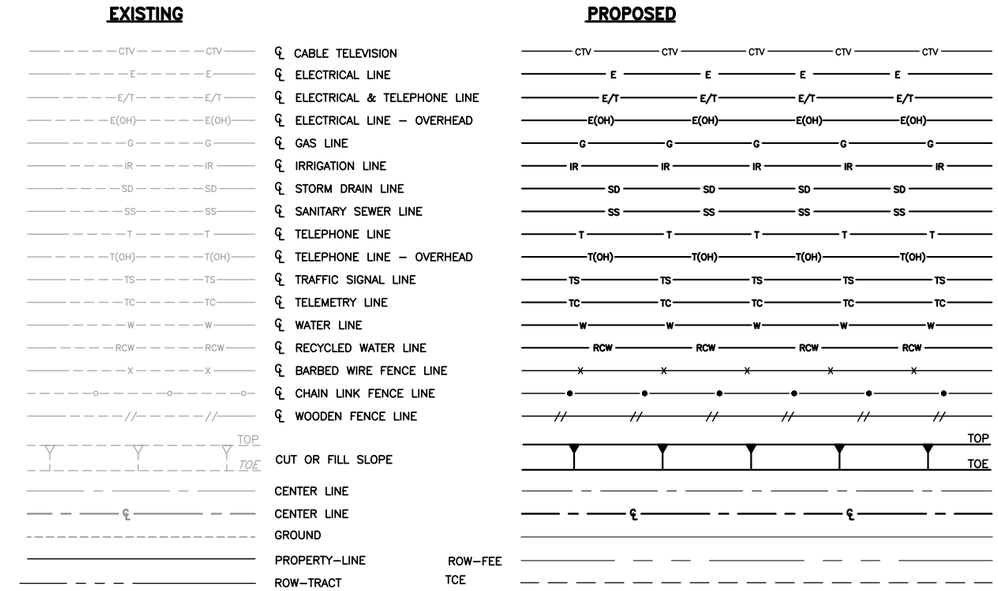
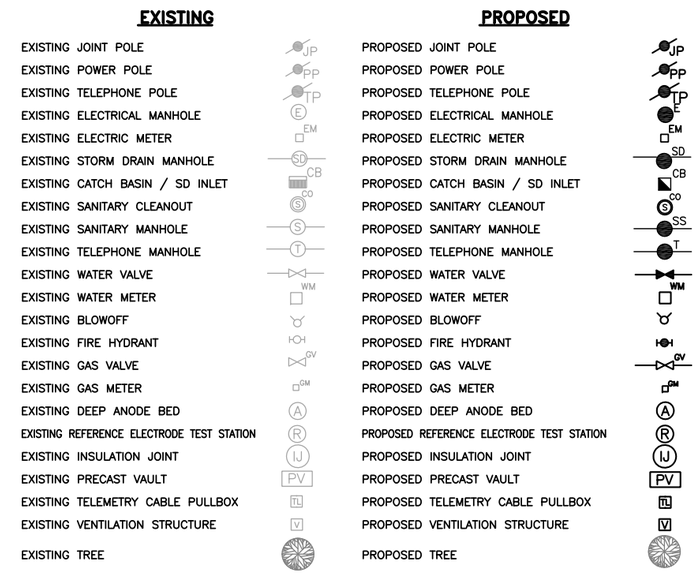


SYMBOLS LEGEND



SURVEY

HORIZONTAL CONTROL
VERTICAL CONTROL
HORIZONTAL VERTICAL CONTROL
TEMPORARY BENCH MARK

TRAFFIC CONTROL

SIGN–1
SIGN–2
BUS STOP
TRAFFIC DIRECTION
TRAFFIC CONE
CONSTRUCTION SIGN
FLASHING ARROW SIGN
TYPE I – TRAFFIC BARRICADE
TYPE III – TRAFFIC BARRICADE
K–RAIL BARRIER

MISCELLANEOUS

ELECTROLIER
ELECTROLIER
GUY WIRE
STORM DRAIN OUTFALL

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-22-11		

REFERENCE INFORMATION AND NOTES

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

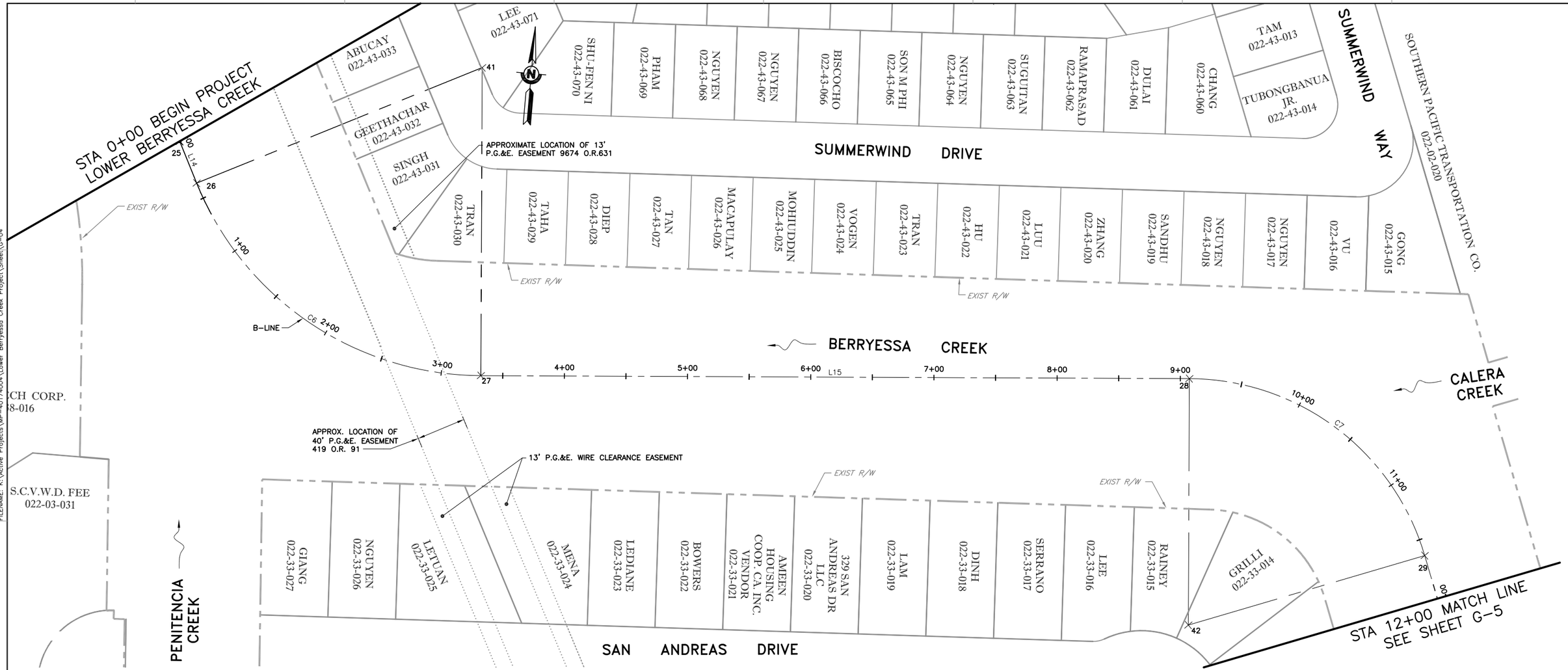
Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
ABBREVIATIONS, LEGEND AND SYMBOLS

SCALE: NOT TO SCALE
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: G–3
SHEET NUMBER: 3 OF 94

USERNAME: JENNFORD Fri 18 Feb 2011 02:40pm
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\G-03
DOCUMENT NUMBER: BER_CY-G-4017-XXXXX



LOWER BERRYESSA CREEK
SCALE 1" = 40'

USERNAME: JENNFORD Fri 18 Feb 2011 02:42pm
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DOCUMENT NUMBER: BER_CY-G-4017-XXXXX

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES
1. SURVEY LAYOUT DATA SHOWN ON SHEET G-10.

DATE	FEB 2011
DESIGN	B. TAN
DRAWN	J. FORD
CHECKED	T. NDAH

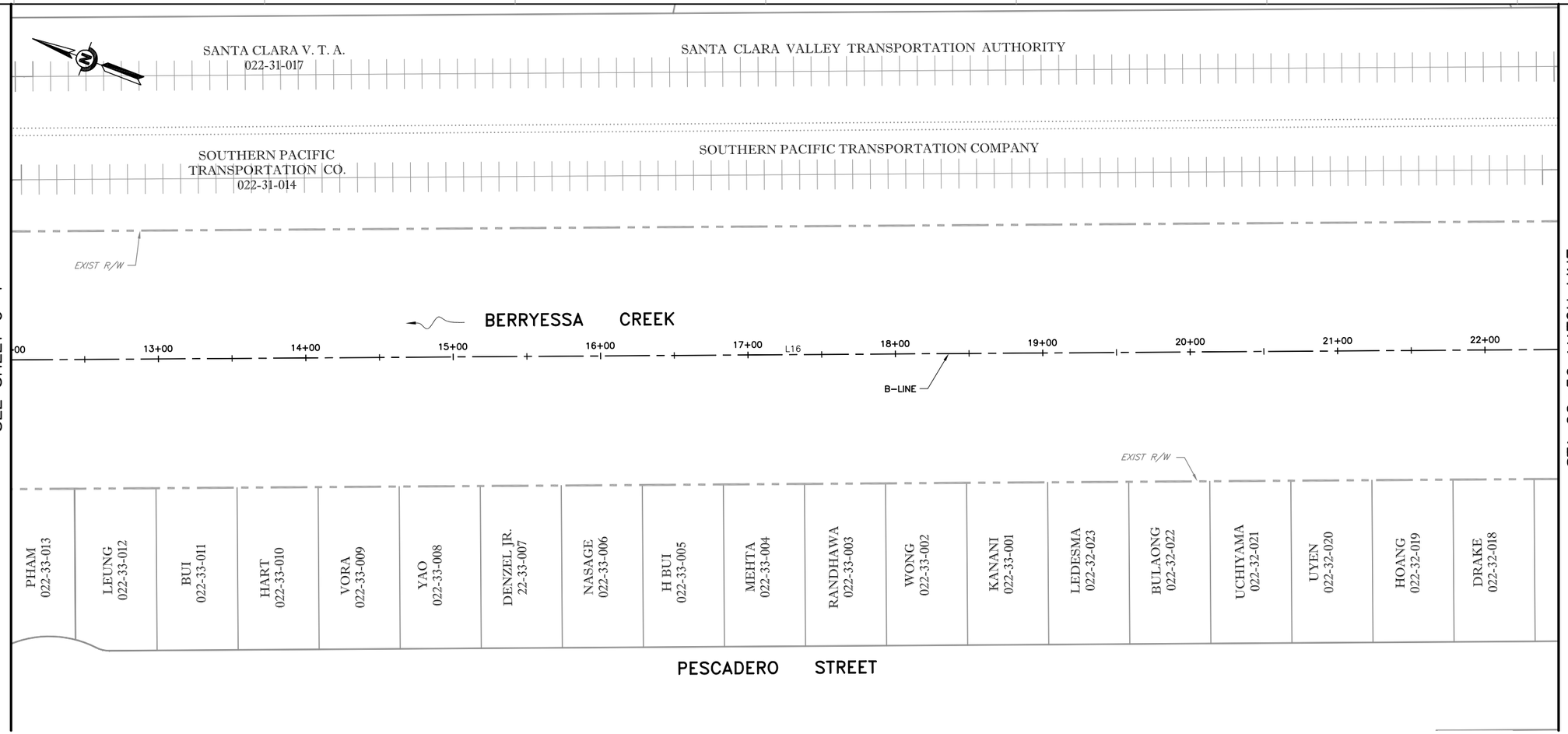
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
SURVEY LAYOUT LOWER BERRYESSA CREEK
STA 0+00 TO STA 12+00

SCALE 1" = 40'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: G-4
SHEET NUMBER: 4 OF 94



STA 12+00 MATCH LINE
SEE SHEET G-4

STA 22+50 MATCH LINE
SEE SHEET G-6

LOWER BERRYESSA CREEK
SCALE 1" = 40'

USERNAME: JENNFORD Fri 18 Feb 2011 02:43pm
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\G-05

DOCUMENT NUMBER: BER_CY-G-4017-XXXXX

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES
1. SURVEY LAYOUT DATA SHOWN ON SHEET G-10.

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

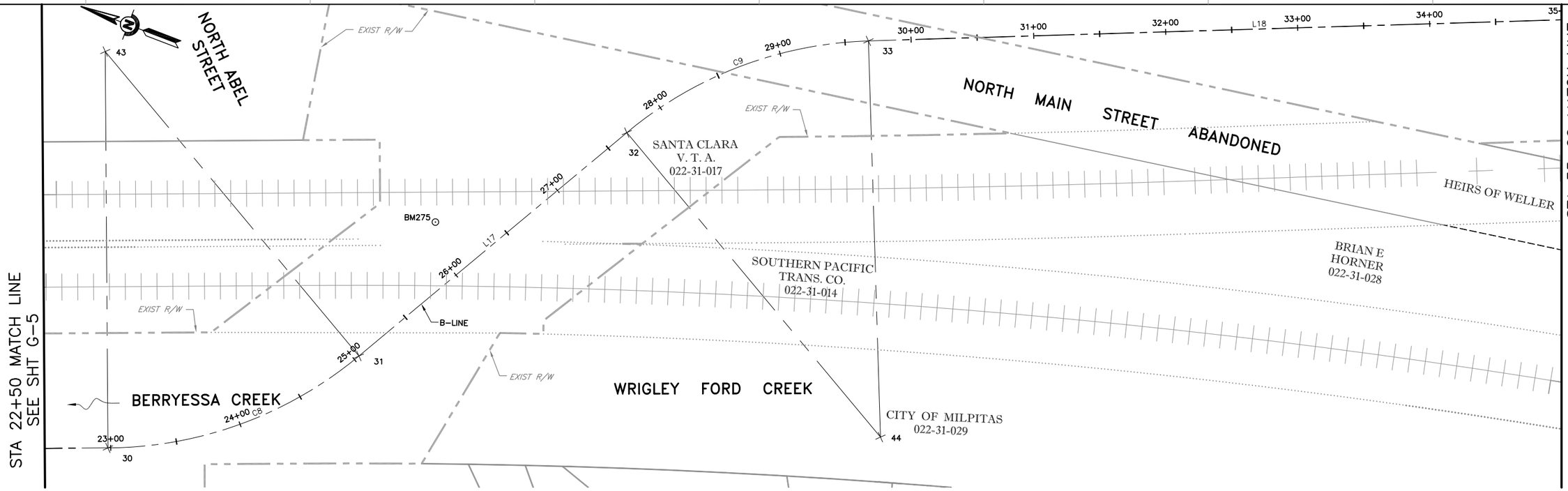
Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT

SURVEY LAYOUT LOWER BERRYESSA CREEK
STA 12+00 TO STA 22+50

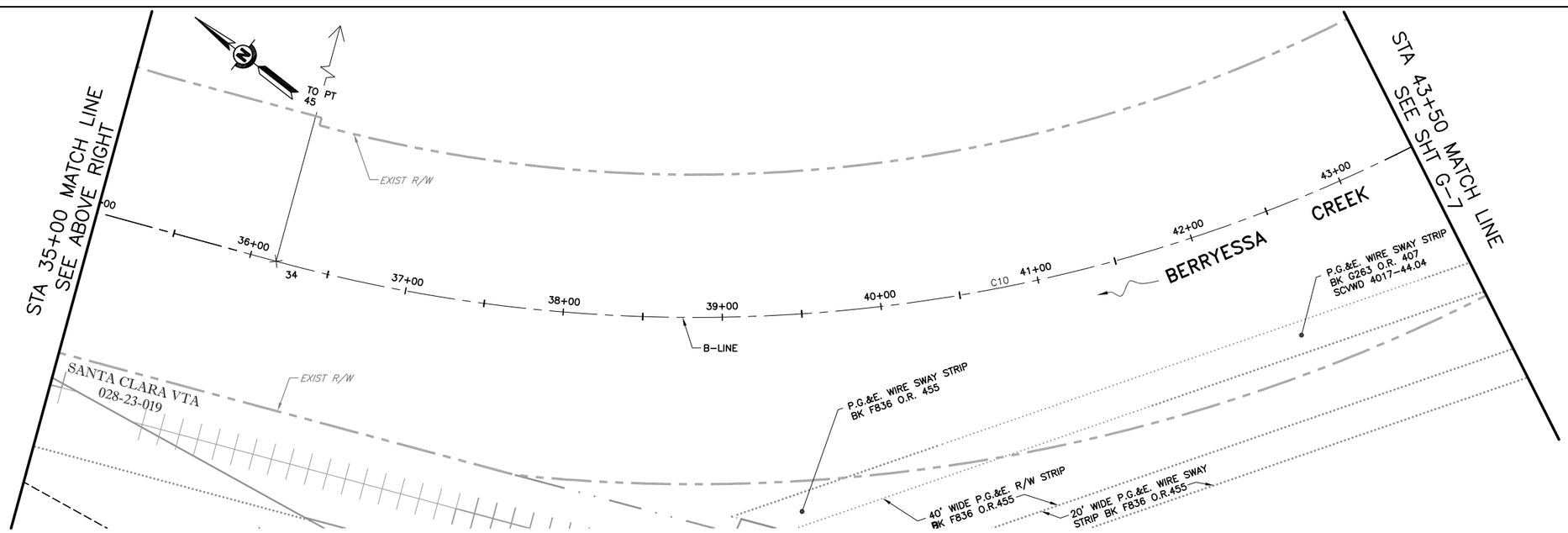
SCALE 1" = 40'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: G-5
SHEET NUMBER: 5 OF 94



LOWER BERRYESSA CREEK

SCALE 1" = 40'



LOWER BERRYESSA CREEK

SCALE 1" = 40'

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES

1. SURVEY LAYOUT DATA SHOWN ON SHEET G-10.

DATE	FEB 2011
DESIGN	B. TAN
DRAWN	J. FORD
CHECKED	T. NDAH

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

SURVEY LAYOUT LOWER BERRYESSA CREEK
STA 22+50 TO STA 43+50

SCALE	PROJECT NUMBER
1" = 40'	40174004
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: G-6
	SHEET NUMBER: 6 OF 94

DOCUMENT NUMBER: BER_CY-G-4017-XXXXX

USERNAME: JENNFORD Fri 18 Feb 2011 02:45pm
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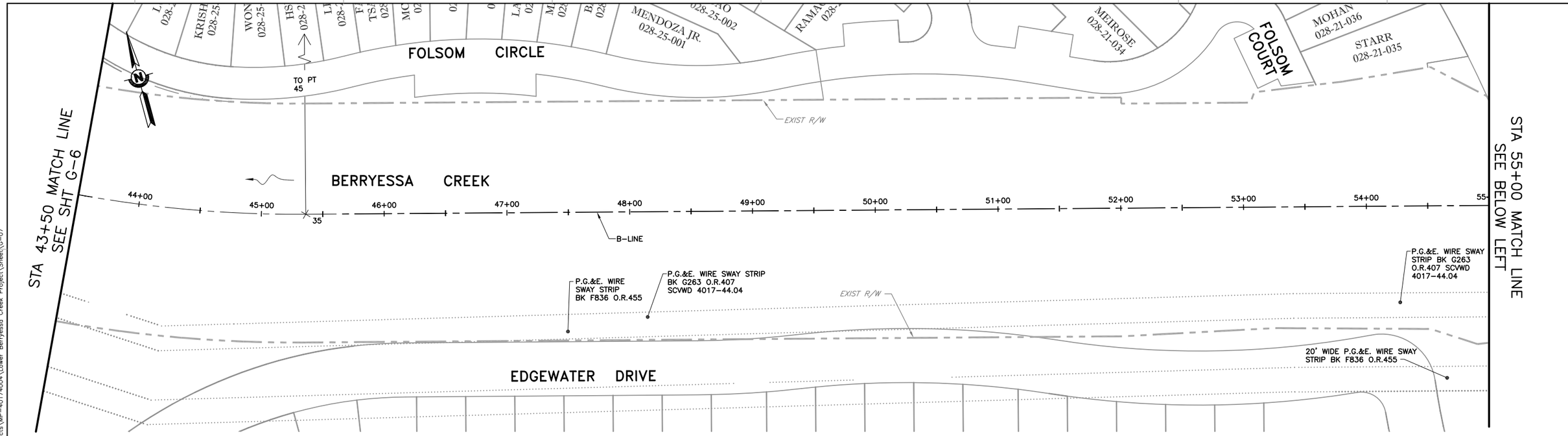
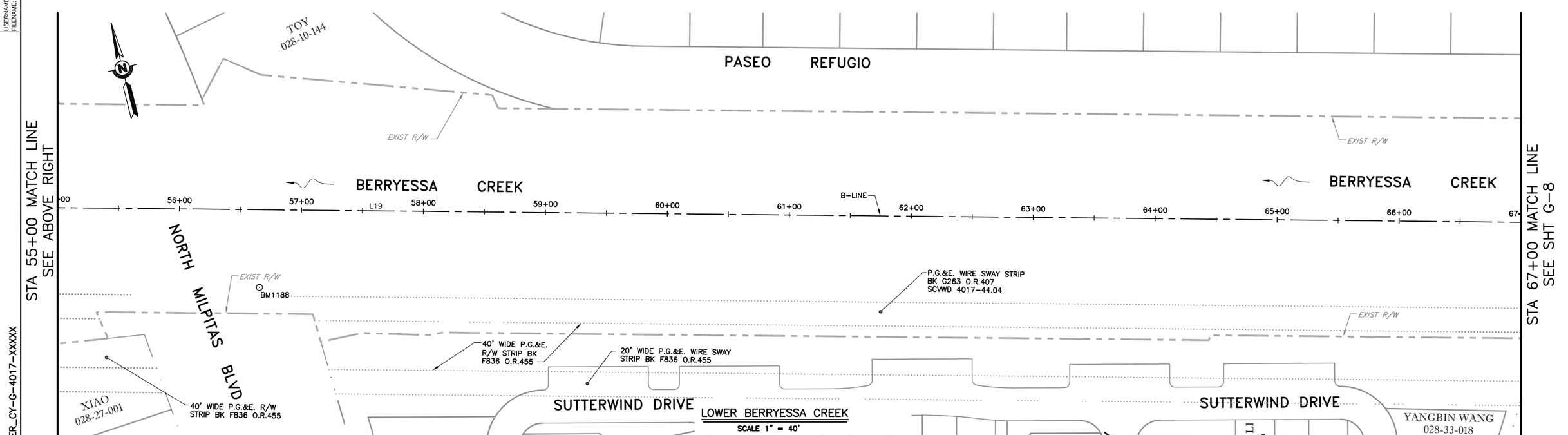


LOWER BERRYESSA CREEK

SCALE 1" = 40'



LOWER BERRYESSA CREEK

SCALE 1" = 40'

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES

1. SURVEY LAYOUT DATA SHOWN ON SHEET G-10.

DATE	FEB 2011
DESIGN	B. TAN
DRAWN	J. FORD
CHECKED	T. NDAH

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

SURVEY LAYOUT LOWER BERRYESSA CREEK
STA 43+50 TO STA 67+00

SCALE: 1" = 40'

VERIFY SCALES: 0 1"

BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004

SHEET CODE: G-7

SHEET NUMBER: 7 OF 94

DOCUMENT NUMBER: BER_CY-G-4017-XXXXX

USERNAME: JENNFORD Fri 18 Feb 2011 02:46pm
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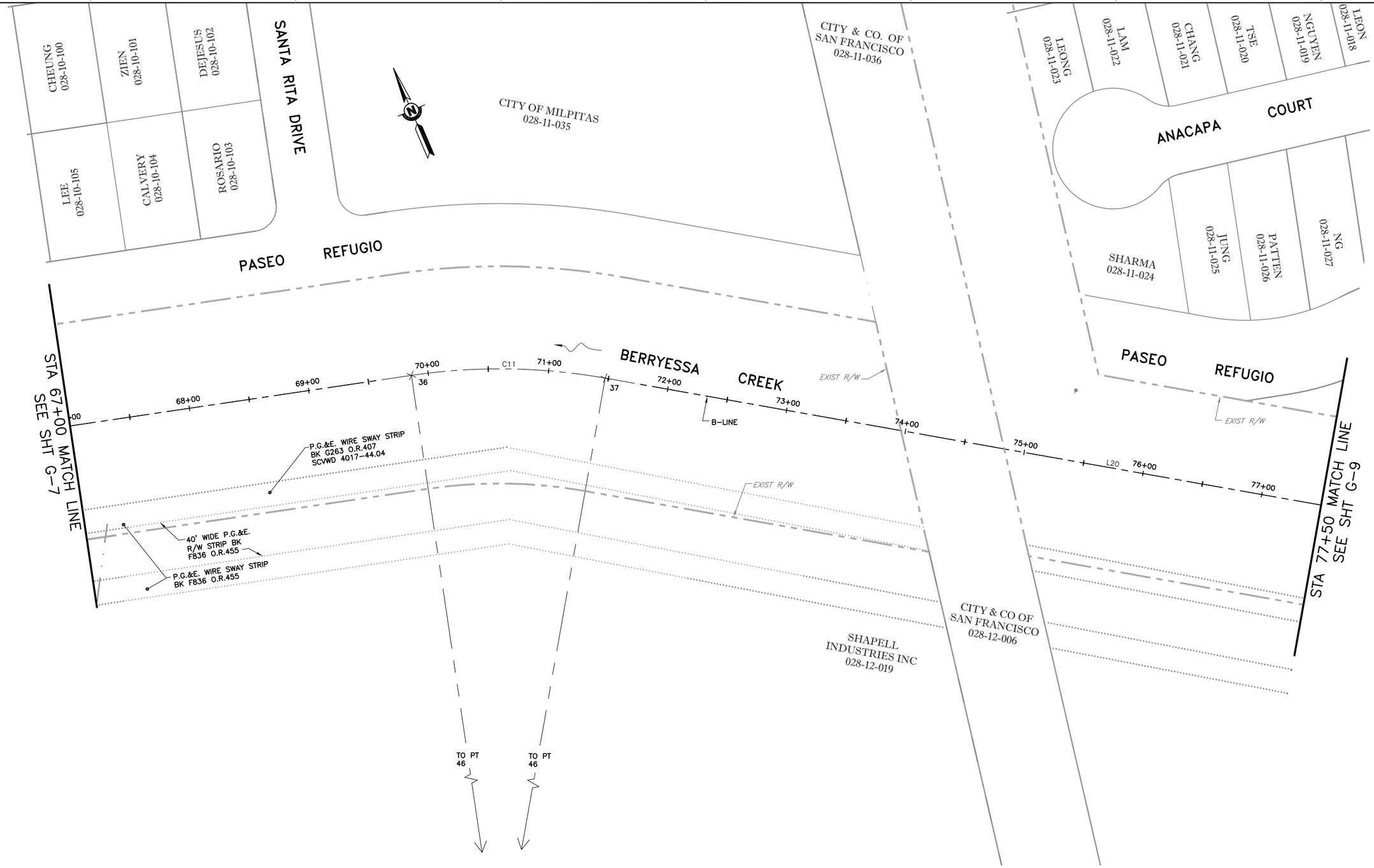

LOWER BERRYESSA CREEK

SCALE 1" = 40'

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES

1. SURVEY LAYOUT DATA SHOWN ON SHEET G-10.

DATE	FEB 2011
DESIGN	B. TAN
DRAWN	J. FORD
CHECKED	T. NDAH

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

SURVEY LAYOUT LOWER BERRYESSA CREEK
STA 67+00 TO STA 77+50

SCALE 1" = 40'

VERIFY SCALES 0 1"

BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004

SHEET CODE: G-8

SHEET NUMBER: 8 OF 94

USERNAME: JENNFORD Fri 18 Feb 2011 02:48pm
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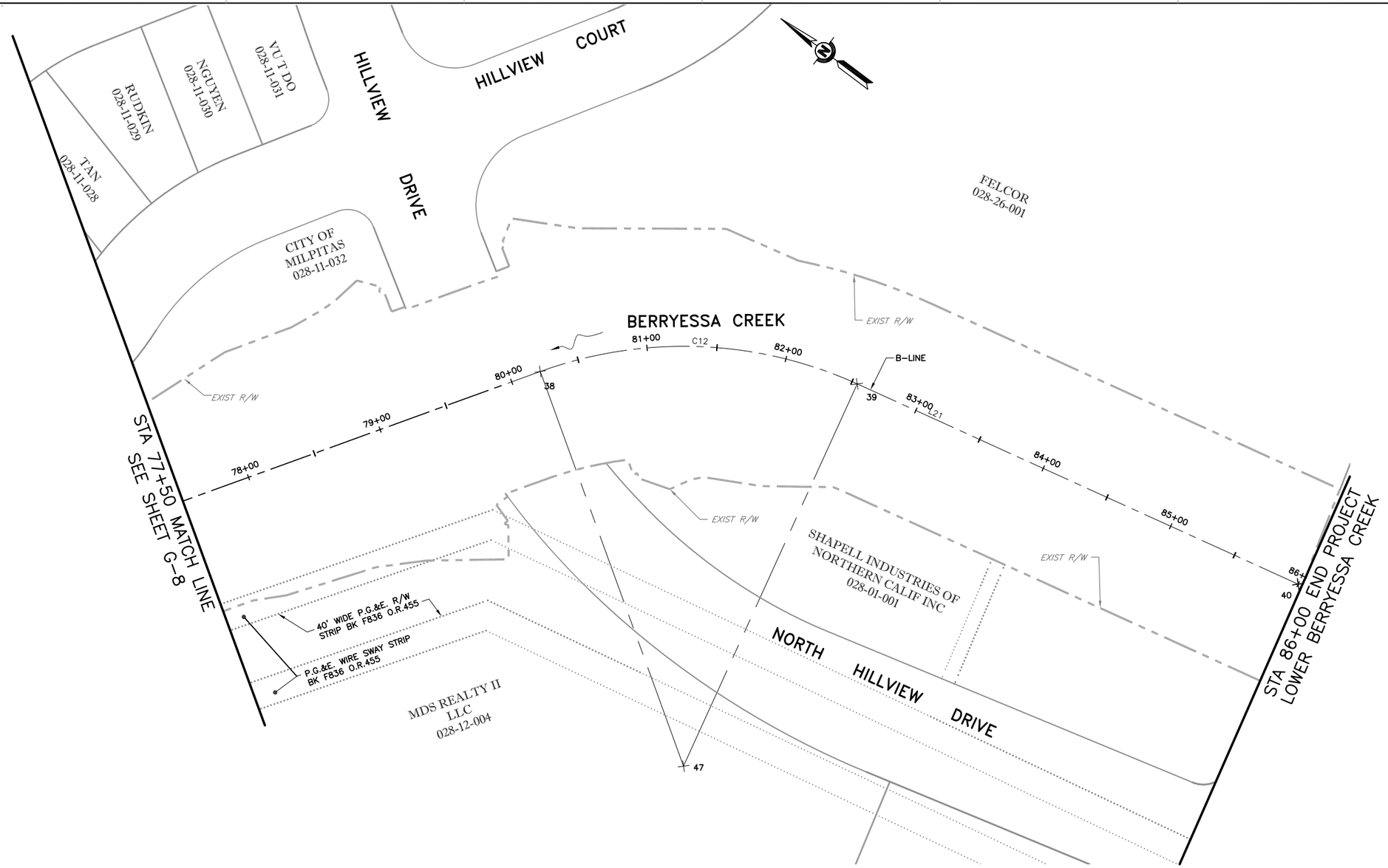
DOCUMENT NUMBER: BER_CY-G-4017-XXXXX



LOWER BERRYESSA CREEK

SCALE 1" = 40'

USERNAME: JENNFORD Fri 18 Feb 2011 02:50pm
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\G-09

DOCUMENT NUMBER: BER_CY-G-4017-XXXXX

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES

1. SURVEY LAYOUT DATA SHOWN ON SHEET G-10.

DATE	FEB 2011
DESIGN	B. TAN
DRAWN	J. FORD
CHECKED	T. NDAH

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

SURVEY LAYOUT LOWER BERRYESSA CREEK
STA 77+50 TO STA 86+00

SCALE	PROJECT NUMBER
1" = 40'	40174004
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: G-9
	SHEET NUMBER: 9 OF 94

B-LINE POINT TABLE

POINT	NORTHING	EASTING	DESCRIPTION
25	1988053.4031	6150974.8190	BP
26	1988020.7294	6150991.4820	BC
27	1987885.1702	6151234.9392	EC
28	1987932.8986	6151808.0887	BC
29	1987806.5187	6152010.9149	EC
30	1986750.2461	6152424.5682	BC
31	1986597.7405	6152557.5971	EC
32	1986468.9411	6152788.1465	BC
33	1986323.0177	6152918.5075	EC
34	1985731.1713	6153166.5993	BC
35	1985149.9259	6153837.2726	EC
36	1984533.5937	6156208.3468	BC
37	1984468.7302	6156355.3084	EC
38	1983991.7557	6157088.1344	BC
39	1983805.5981	6157217.2965	EC
40	1983467.9300	6157292.5715	EP
41	1988134.3078	6151214.1925	RP
42	1987733.5885	6151824.6860	RP
43	1986859.6415	6152703.9115	RP
44	1986207.0402	6152641.8322	RP
45	1986117.7630	6154088.8502	RP
46	1984049.6751	6156082.5580	RP
47	1983740.3226	6156924.4841	RP

B-LINE TABLE

LINE	LENGTH	BEARING
L14	36.68	S27°01'15"E
L15	575.13	N85°14'23"E
L16	1134.38	S21°23'10"E
L17	264.09	S60°48'34"E
L18	641.74	S22°44'33"E
L19	2449.87	S75°25'45"E
L20	874.38	S56°56'28"E
L21	345.96	S12°34'02"E

B-LINE CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA
C6	250.00	295.57	67°44'22"
C7	200.00	256.12	73°22'27"
C8	300.00	206.42	39°25'24"
C9	300.00	199.32	38°04'01"
C10	1000.00	919.55	52°41'11"
C11	500.00	161.34	18°29'17"
C12	300.00	232.34	44°22'26"

CONTROL POINT TABLE (SEE NOTE 3)

POINT	NORTHING	EASTING	ELEV	DESCRIPTION
BM045	1983338	6157298	31.27	BRASS DISK ON TOP OF CONCRETE HEADWALL; SOUTHWEST CORNER OF CALAVERAS BOULEVARD BRIDGE OVER BERRYESSA CREEK; 200 FEET EAST FROM S. HILLVIEW DRIVE, CITY OF MILPITAS.
BM061	1983721	6151312	18.64	BRASS DISK ON CONCRETE BASE OF SIDEWALK'S GUARDRAIL; AT THE SOUTHWEST CORNER OF MARYLINN DRIVE BRIDGE OVER PENITENCIA CREEK, CITY OF MILPITAS.
BM062	1988375.3	6150755.4	25.49	BRASS DISK AT THE SOUTHWESTERLY CORNER OF BRIDGE FOR CALIFORNIA CIRCLE – MILMONT DRIVE OVER PENITENCIA CREEK AT 350 FEET EASTERLY FROM FAIRVIEW WAY, CITY OF SAN JOSE.
BM275	1986580	6152673	19.06	BRASS DISK AT THE NORTHEAST CORNER OF EXPOSED OPENING BETWEEN TWO SETS OF RAILROAD TRACKS; ON TOP OF 2 FOOT WIDE CONCRETE WALL FOR BERRYESSA CREEK. SITE IS ABOUT 200 FEET SOUTH FROM JACKLIN ROAD OVERPASS; ALSO ABOUT 1000 FEET SOUTHWEST FROM INTERSECTION OF JACKLIN ROAD AND N. MILPITAS BOULEVARD, CITY OF MILPITAS.
BM276	1988019	6152672	21.47	BRASS DISK ON TOP AND BACK OF SIDEWALK; 50 FEET NORTHWEST OF INTERSECTION FOR N. MILPITAS BOULEVARD AND HANSON COURT; 1 FOOT EAST OF FACE OF CONCRETE HEADWALL; CENTER OF CALERA CREEK, CITY OF MILPITAS.
BM277	1990417	6152209	25.39	BRASS DISK IN CENTER OF EAST SIDE OF CONCRETE SLAB FOR TELEPHONE ACCESS BOX; 2 FEET EAST FROM 6 FOOT TALL TELEPHONE CONTROL BOX; LOCATED ON WEST SIDE OF N. MILPITAS BOULEVARD; BETWEEN WASHINGTON STREET AND HOMME WAY, CITY OF SAN JOSE.
BM318	1991161	6154574	64.66	BRASS DISK ON TOP OF HETCH HETCHY PIPELINE WATER VAULT; 40 FEET NORTH OF CENTERLINE OF WASHINGTON AVENUE; 130 FEET WEST FROM CENTERLINE FOR ROGER STREET (NEAR MILPITAS HIGH SCHOOL); EAST SIDE OF STRUCTURE AND APPROXIMATELY IN THE MIDDLE OF ITS LENGTH; 2 FEET HIGHER THAN GROUND, CITY OF SAN JOSE.
BM1042	1984339	6153198	16.04	USCGS BRASS DISK (M874), ON TOP OF HEADWALL AT NORTHWEST CORNER BRIDGE FOR RAILROAD COURT OVER WRIGLEY FORD CREEK; 250 FEET NORTH FROM INTERSECTION OF RAILROAD COURT AND N. MAIN STREET; 400 FEET NORTH OF THE INTERSECTION OF THE SOUTHERN PACIFIC RAILROAD CROSSING AND MAIN STREET (THE OLD OAKLAND–SAN JOSE ROAD), CITY OF MILPITAS.
BM1188	1984804	6154915	27.05	BRASS DISK ON TOP OF CONCRETE SIDEWALK AT THE SOUTHEAST CORNER OF INTERSECTION FOR BERRYESSA CREEK AT NORTH MILPITAS BOULEVARD. DISK IS LOCATED AT CENTER OF SIDEWALK, CITY OF MILPITAS.

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES

1. BASIS OF ELEVATION: NORTH AMERICAN VERTICAL DATUM 1988, U.S. FEET.
2. BASIS OF BEARING: CALIFORNIA COORDINATE SYSTEM, ZONE 3 NORTH AMERICAN DATUM 1983, U.S. FEET.
3. FOR VERTICAL CONTROL USE ONLY.

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

SURVEY LAYOUT DATA

SCALE: NO SCALE

VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004

SHEET CODE: G-10

SHEET NUMBER: 10 OF 94

DOCUMENT NUMBER: BER_CY-G-4017-XXXXX

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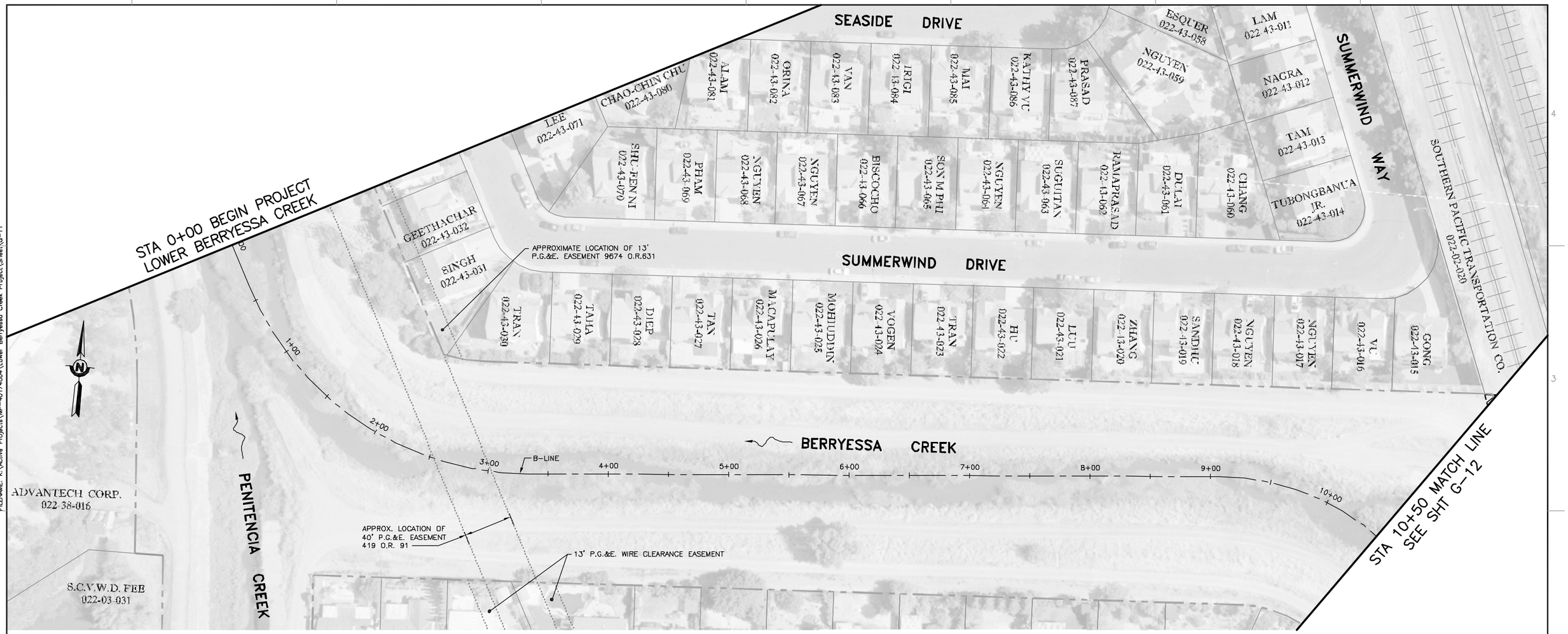

PLAN
SCALE 1" = 40'

LEGEND

TEMPORARY CONSTRUCTION EASEMENT

PERMANENT CONSTRUCTION EASEMENT

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES
1. AERIAL PHOTOGRAPHY WAS TAKEN JULY 2008.

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
RIGHT OF WAY MAP AND STAGING PLAN
LOWER BERRYESSA CREEK
STA 0+00 TO STA 10+50

SCALE 1" = 40'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: G-11
SHEET NUMBER: 11 OF 94

DOCUMENT NUMBER: BER_CY-G-4017-XXXXX

USERNAME: JENNFORD Fri 18 Feb 2011 02:53pm
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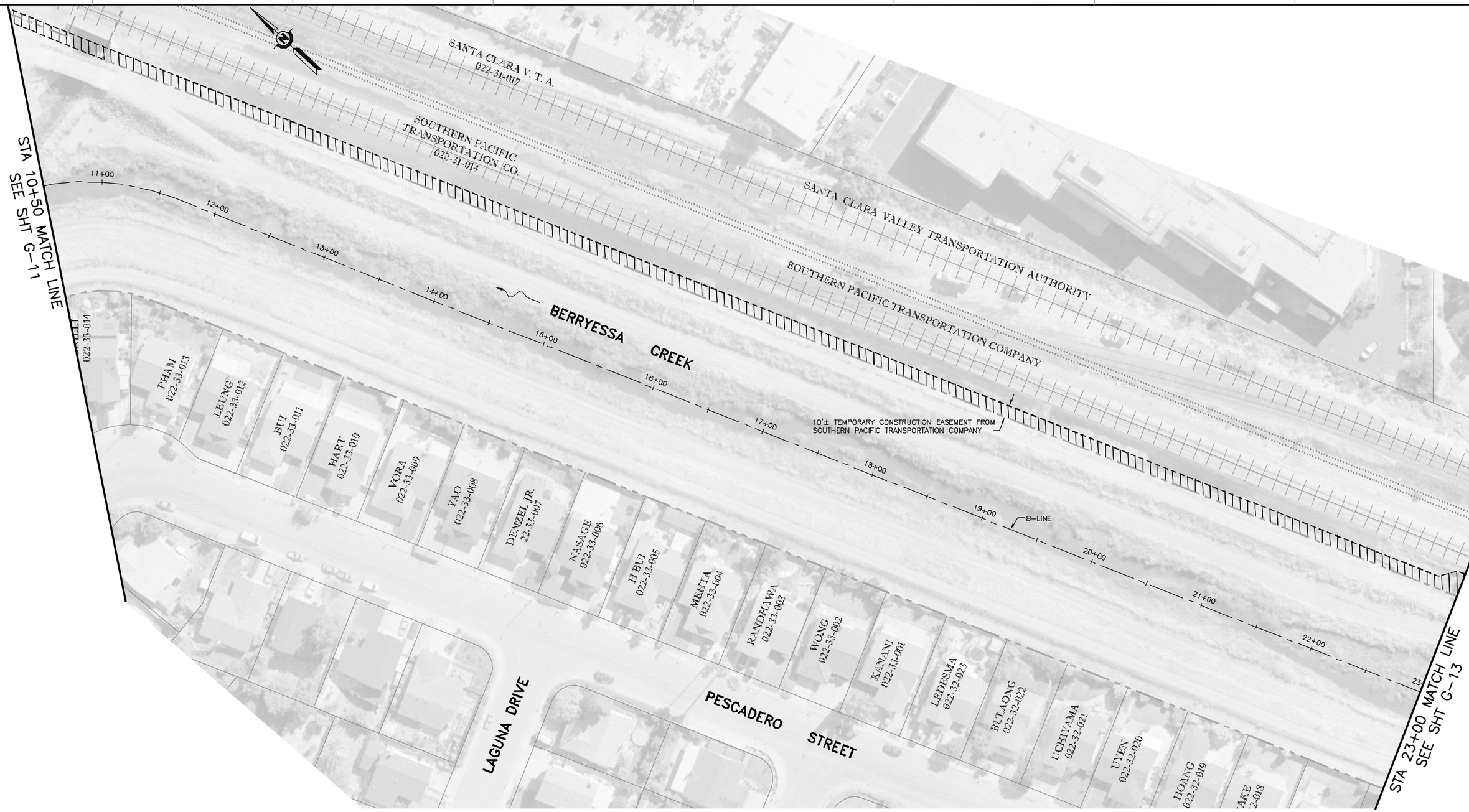

PLAN
SCALE 1" = 40'

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES
1. AERIAL PHOTOGRAPHY WAS TAKEN JULY 2008.

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
RIGHT OF WAY MAP AND STAGING PLAN
LOWER BERRYESSA CREEK
STA 10+50 TO STA 23+00

SCALE 1" = 40'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: G-12
SHEET NUMBER: 12 OF 94

DOCUMENT NUMBER: BER_CY-G-4017-XXXXX

USERNAME: JENNFORD Fri 18 Feb 2011 02:55pm
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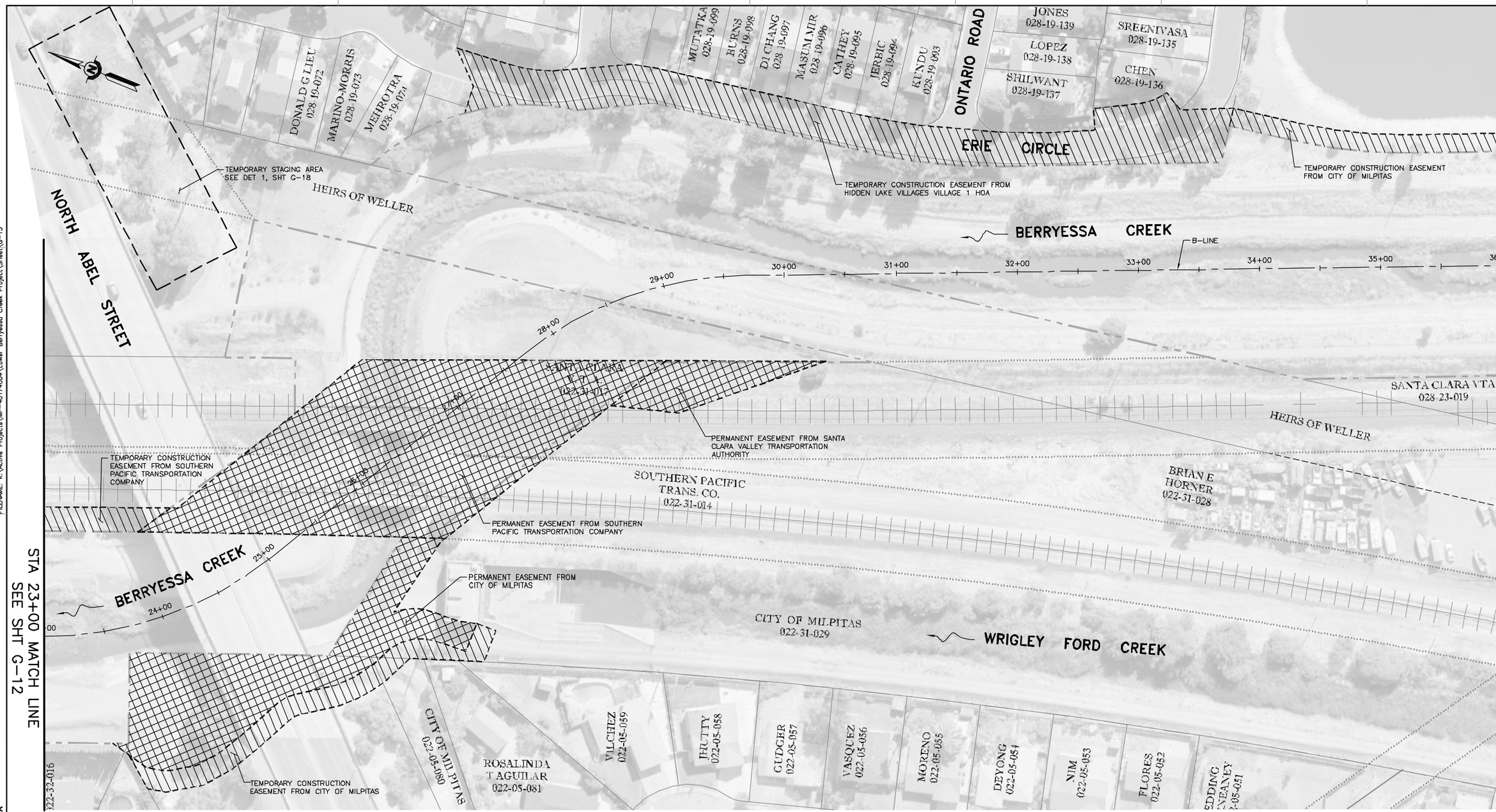


STA 36+00 MATCH LINE
SEE SHT G-14

STA 23+00 MATCH LINE
SEE SHT G-12

PLAN
SCALE 1" = 40'

USERNAME: JENNFORD Fri 18 Feb 2011 02:58pm
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\G-13

DOCUMENT NUMBER: BER_CY-G-4017-XXXXX

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES

1. AERIAL PHOTOGRAPHY WAS TAKEN JULY 2008.

DATE	
FEB 2011	
DESIGN	B. TAN
DRAWN	J. FORD
CHECKED	T. NDAH

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

RIGHT OF WAY MAP AND STAGING PLAN
LOWER BERRYESSA CREEK
STA 23+00 TO STA 36+00

SCALE 1" = 40'

VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004

SHEET CODE: G-13

SHEET NUMBER: 13 OF 94

USERNAME: JENNFORD Fri 18 Feb 2011 03:25pm
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\G-14

DOCUMENT NUMBER: BER_CY-G-4017-XXXXX

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES

1. AERIAL PHOTOGRAPHY WAS TAKEN JULY 2008.

DATE	FEB 2011
DESIGN	B. TAN
DRAWN	J. FORD
CHECKED	T. NDAH

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

RIGHT OF WAY MAP AND STAGING PLAN
LOWER BERRYESSA CREEK
STA 36+00 TO STA 49+50

SCALE: 1" = 40'

VERIFY SCALES: 0 — 1"
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004

SHEET CODE: G-14

SHEET NUMBER: 14 OF 94

USERNAME: JENNFORD Fri, 18 Feb 2011 03:27pm
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\G-15

STA 56+00 MATCH LINE
SEE SHT G-14

STA 61+50 MATCH LINE
SEE SHT G-16

PLAN
SCALE 1" = 40'

DOCUMENT NUMBER: BER_CY-G-4017-XXXXX

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES
1. AERIAL PHOTOGRAPHY WAS TAKEN JULY 2008.

DATE
FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

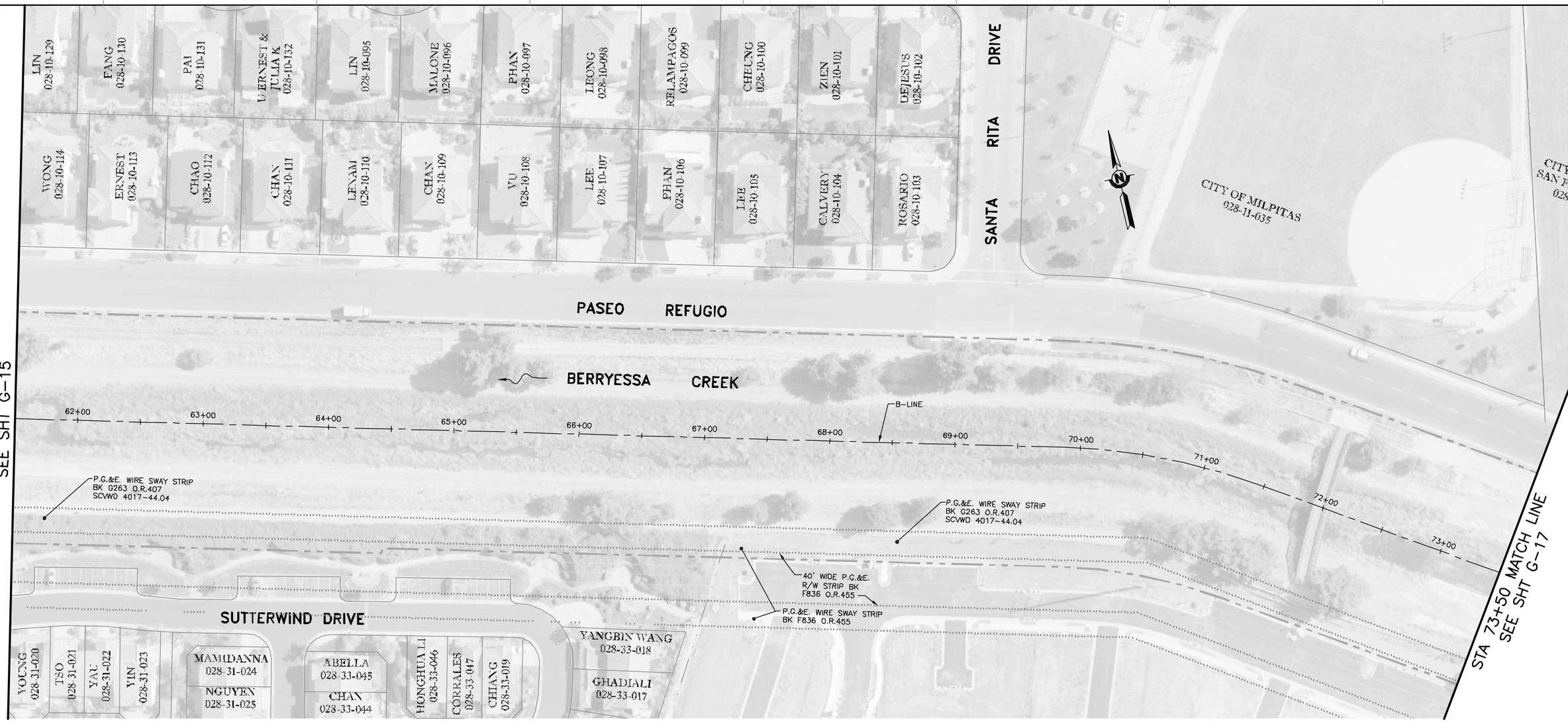
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
RIGHT OF WAY MAP AND STAGING PLAN
LOWER BERRYESSA CREEK
STA 49+50 TO STA 61+50

SCALE 1" = 40'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: G-15
SHEET NUMBER: 15 OF 94



PLAN
SCALE 1" = 40'

USERNAME: JENNFORD Fri 18 Feb 2011 03:30pm
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DOCUMENT NUMBER: BER_CY-G-4017-XXXXX

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES
1. AERIAL PHOTOGRAPHY WAS TAKEN JULY 2008.

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

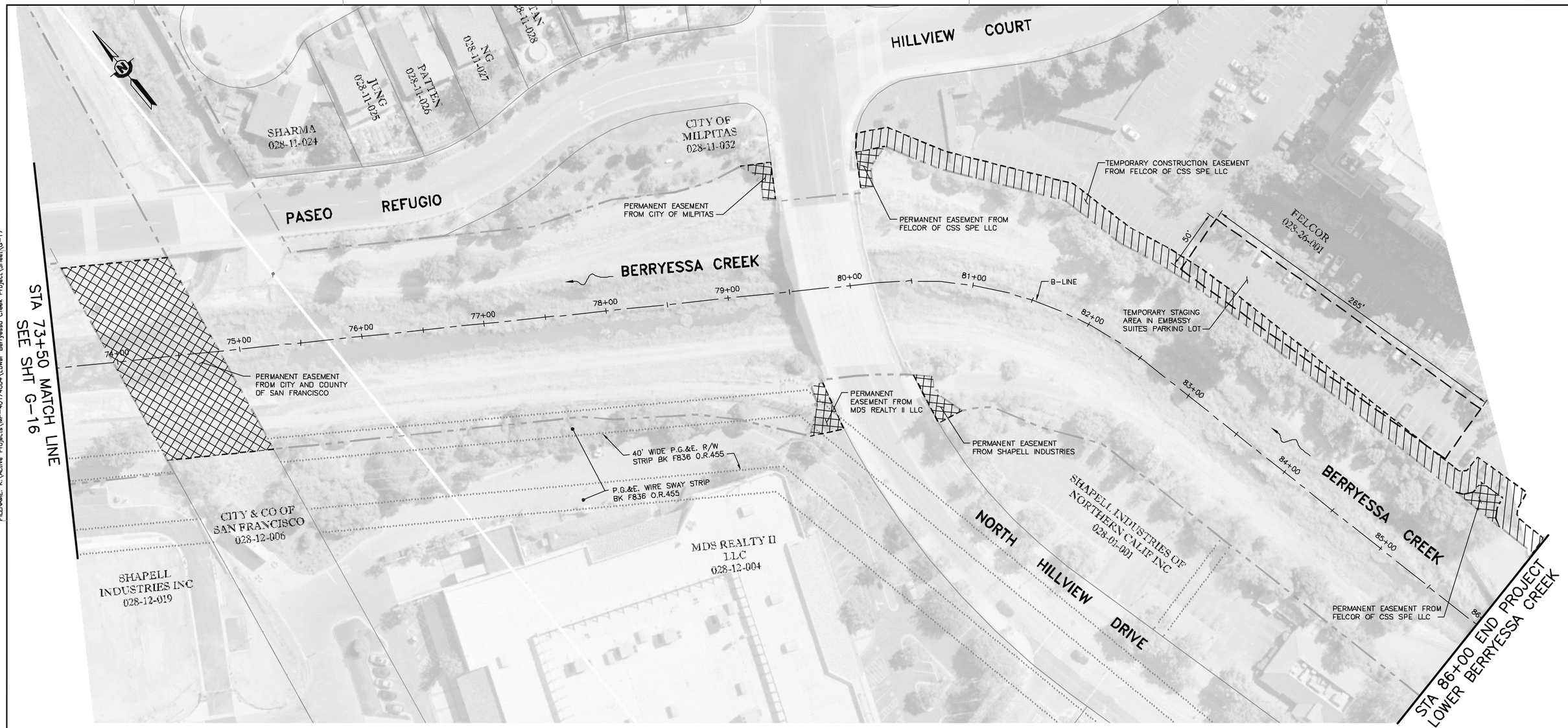
ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
RIGHT OF WAY MAP AND STAGING PLAN
LOWER BERRYESSA CREEK
STA 61+50 TO STA 73+50

SCALE 1" = 40'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: G-16
SHEET NUMBER: 16 OF 94



PLAN

SCALE 1" = 40'

USERNAME: JENNFORD Fri, 18 Feb 2011 03:32pm
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\G-17

DOCUMENT NUMBER: BER_CY-G-4017-XXXXX

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES

1. AERIAL PHOTOGRAPHY WAS TAKEN JULY 2008.

DATE	FEB 2011
DESIGN	B. TAN
DRAWN	J. FORD
CHECKED	T. NDAH

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67034 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

RIGHT OF WAY MAP AND STAGING PLAN
LOWER BERRYESSA CREEK
STA 73+50 TO STA 86+00

SCALE 1" = 40'

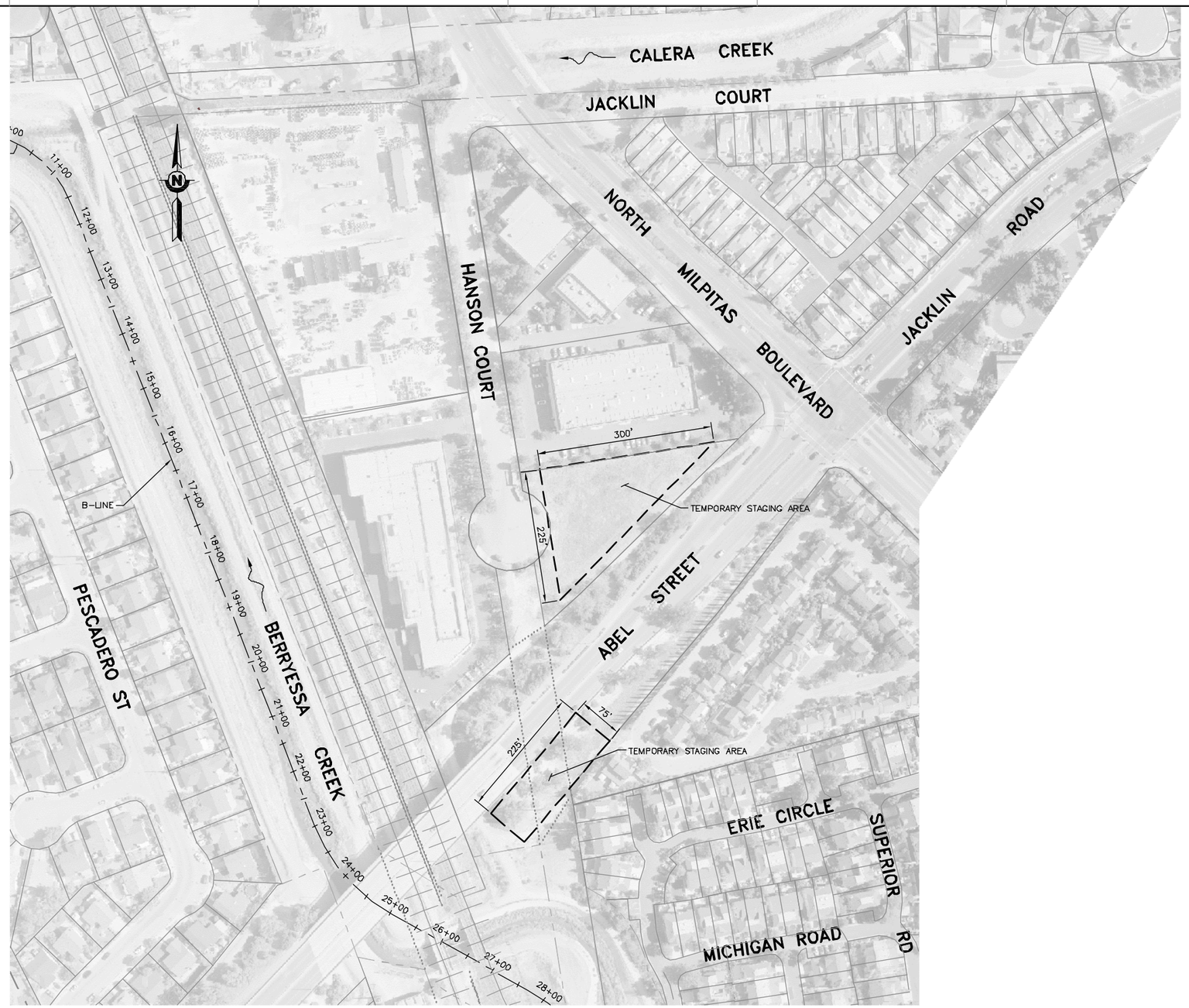
VERIFY SCALES 0 1"

BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004

SHEET CODE: G-17

SHEET NUMBER: 17 OF 94



DETAIL 1 / G-13 TEMPORARY STAGING AREAS
HANSON COURT AND ABEL STREET
SCALE: 1" = 100'

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES
1. AERIAL PHOTOGRAPHY WAS TAKEN JULY 2008.

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C87634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
STAGING PLAN DETAIL

SCALE 1" = 100'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: G-18
SHEET NUMBER: 18 OF 94

DOCUMENT NUMBER: BER_CY-G-4017-XXXXX
USERNAME: JENNFORD Fri 18 Feb 2011 03:35pm
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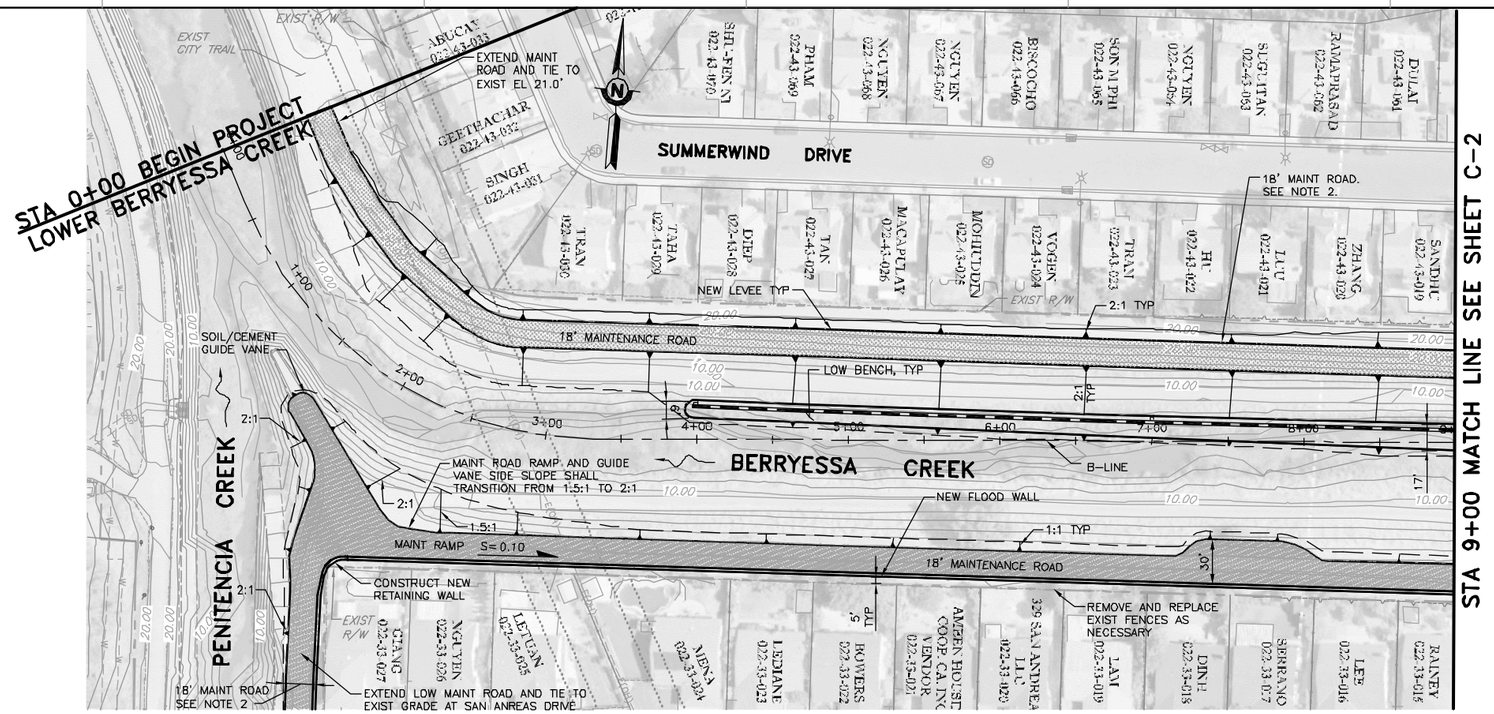
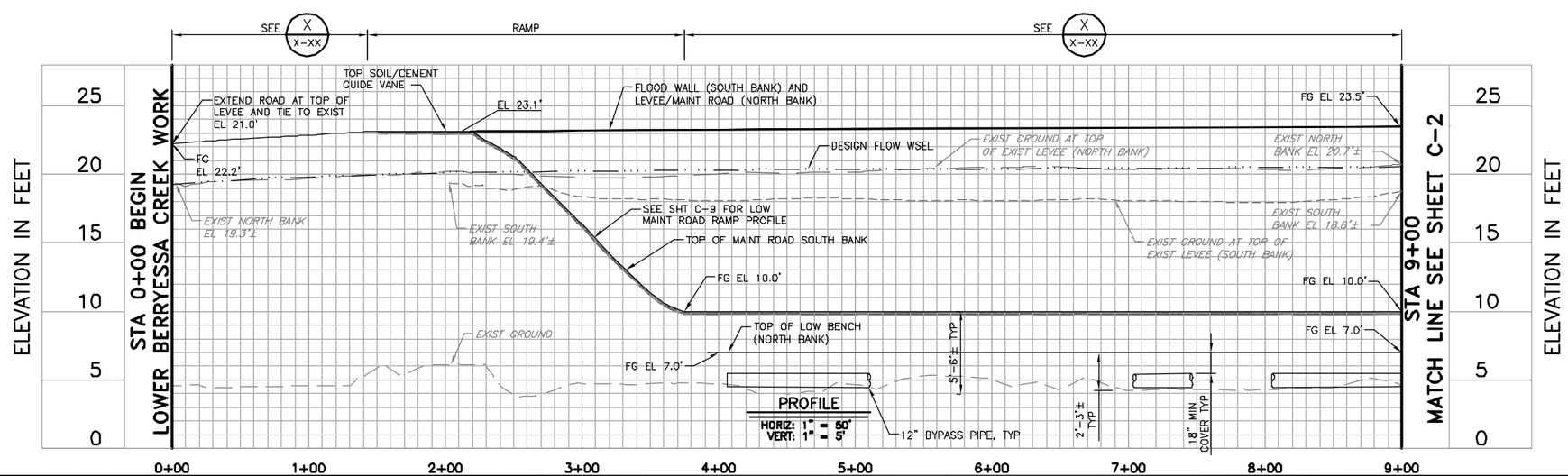


PLAN

PLAN SCALE 1" = 50'



REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES

1. AERIAL PHOTOGRAPHY WAS TAKEN JULY 2008.
2. MAINT ROADS SHALL HAVE A 2% CROSS SLOPE TO CREEK.

DATE	ENGINEERING CERTIFICATION
FEB 2011	REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
DESIGN B. TAN	
DRAWN J. FORD	
CHECKED T. NDAH	PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

PLAN AND PROFILE LOWER BERRYESSA CREEK
STA 0+00 TO STA 9+00

SCALE	PROJECT NUMBER
AS SHOWN	40174004
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-1
	SHEET NUMBER: 19 OF 94

DOCUMENT NUMBER: BER_CY-C-4017-XXXXX

USERNAME: JENNFORD Fri 18 Feb 2011 03:38pm
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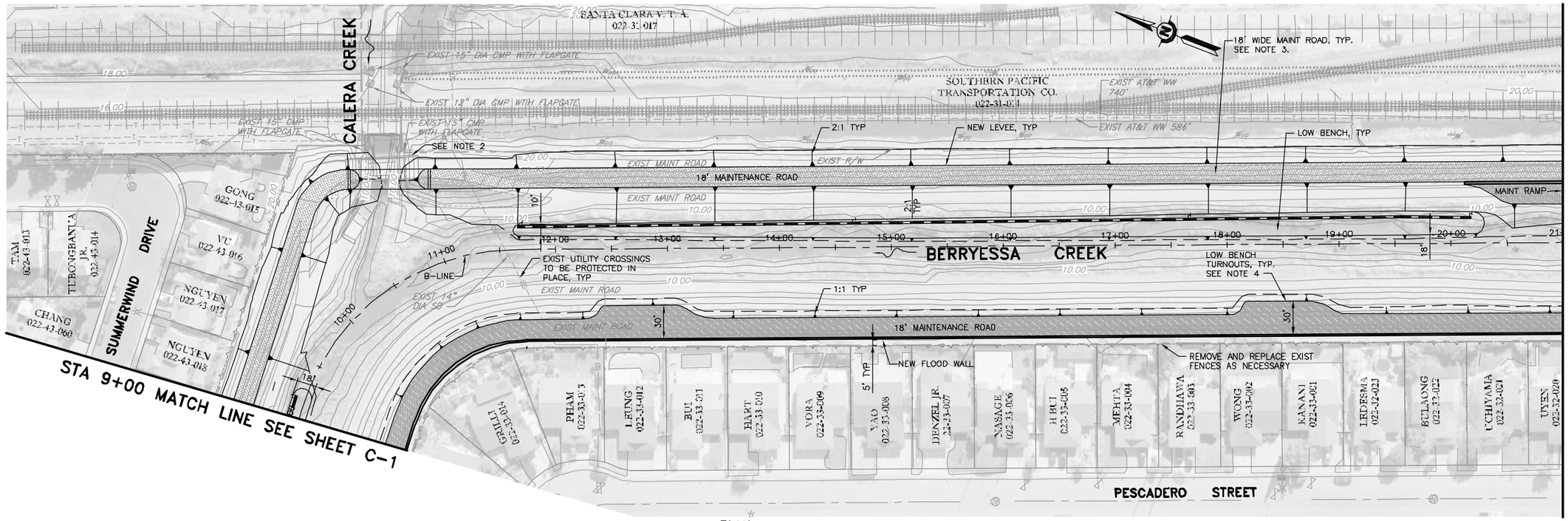
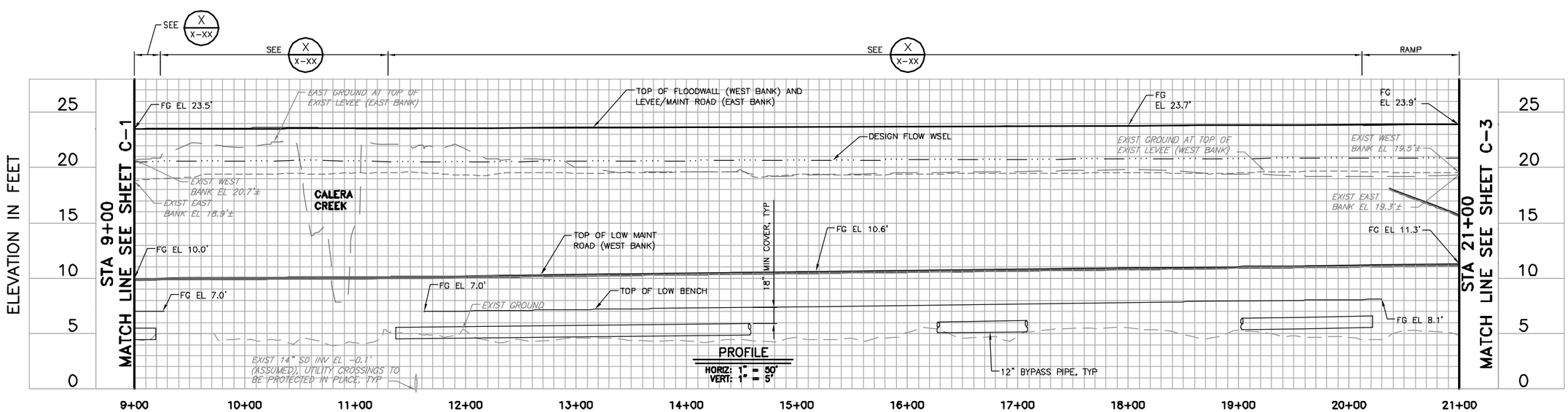


PLAN

PLAN SCALE 1" = 50'



PROFILE

HORIZ: 1" = 50'
VERT: 1" = 5'

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES

1. AERIAL PHOTOGRAPHY WAS TAKEN JULY 2008.
2. EXIST BR TO BE REMOVED AND STORED UNTIL NEW LEVEE AND NEW ABUTMENTS ARE CONSTRUCTED THEN PLACED BACK ON NEW ABUTMENTS.
3. MAINT ROADS SHALL HAVE A 2% CROSS SLOPE TO CREEK.
4. CONSTRUCT 70' LONG x 30' WIDE TURNOUTS SPACED APPROX EVERY 500'.

DATE	ENGINEERING CERTIFICATION
FEB 2011	REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NOAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
DESIGN B. TAN	
DRAWN J. FORD	
CHECKED T. NOAH	PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

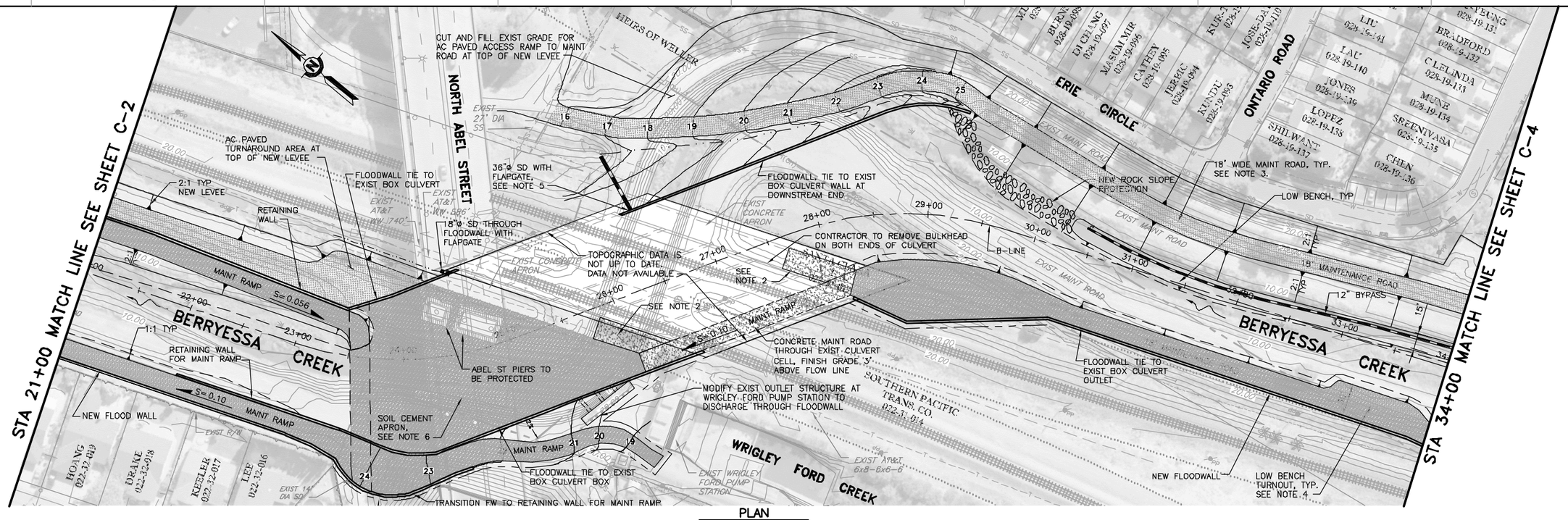
LOWER BERRYESSA CREEK PROJECT

PLAN AND PROFILE LOWER BERRYESSA CREEK
STA 9+00 TO STA 21+00

SCALE	PROJECT NUMBER
AS SHOWN	40174004
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-2
	SHEET NUMBER: 20 OF 94

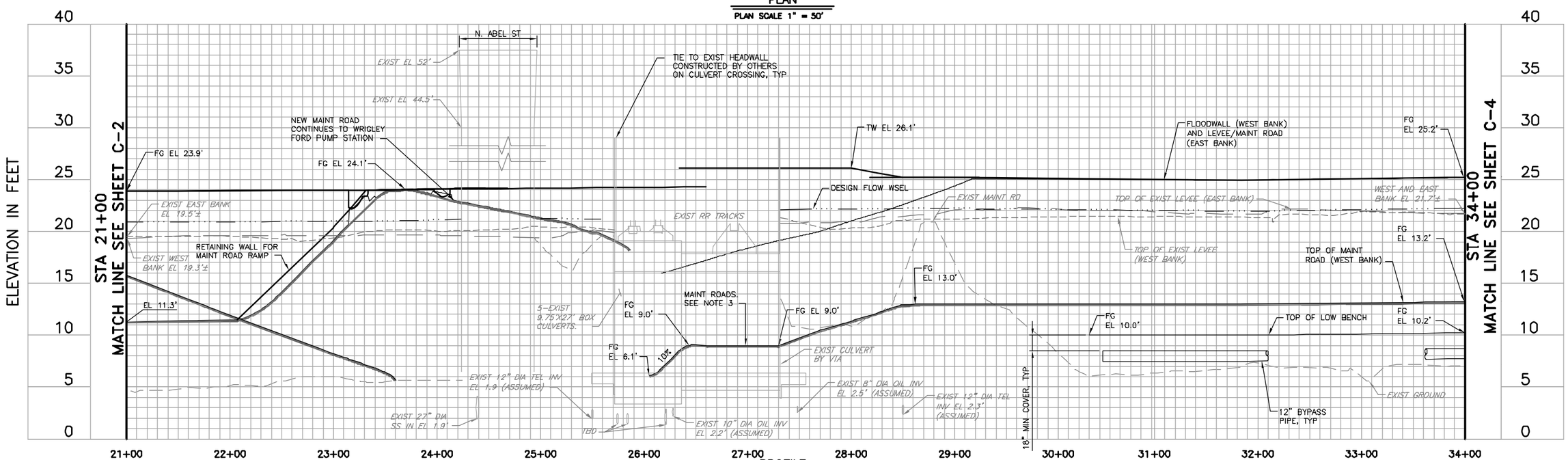
USERNAME: JENNFORD Fri 18 Feb 2011 03:44pm
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\C-02

DOCUMENT NUMBER: BER_CY-C-4017-XXXXX



PLAN

PLAN SCALE 1" = 50'



PROFILE

HORIZ: 1" = 50'
VERT: 1" = 5'

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES

1. AERIAL PHOTOGRAPHY WAS TAKEN JULY 2008.
2. EXTEND CONCRETE APRON FOR FULL LENGTH OF CULVERTS.
3. MAINT ROADS SHALL HAVE A 2% CROSS SLOPE TO CREEK.
4. CONSTRUCT 70' LONG x 30' WIDE TURNOUTS SPACED APPROX EVERY 500'.
5. 36"ø SD THROUGH FLOODWALL WITH FLAPGATE.
6. 12" SOIL CEMENT APRON AT BOX CULVERT OUTLET.

DATE	ENGINEERING CERTIFICATION
FEB 2011	REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
DESIGN B. TAN	
DRAWN J. FORD	
CHECKED T. NDAH	PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

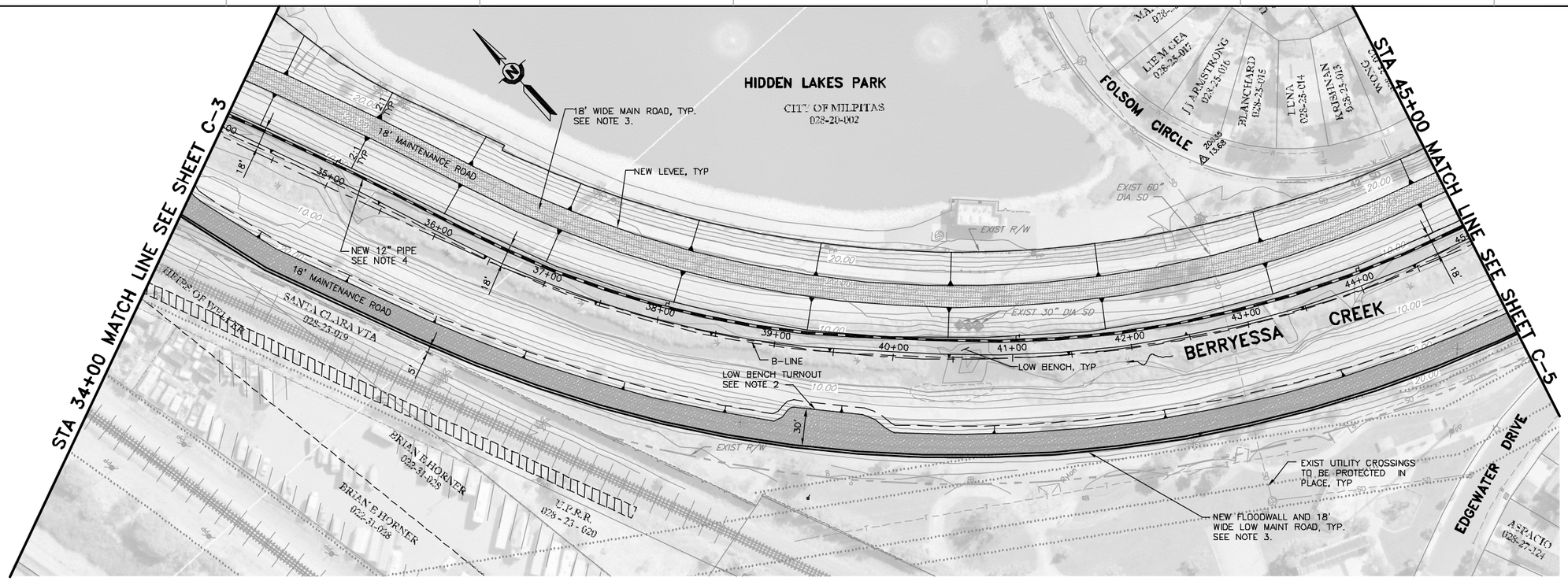
LOWER BERRYESSA CREEK PROJECT

PLAN AND PROFILE LOWER BERRYESSA CREEK
STA 21+00 TO STA 34+00

SCALE	PROJECT NUMBER
AS SHOWN	40174004
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-3
	SHEET NUMBER: 21 OF 94

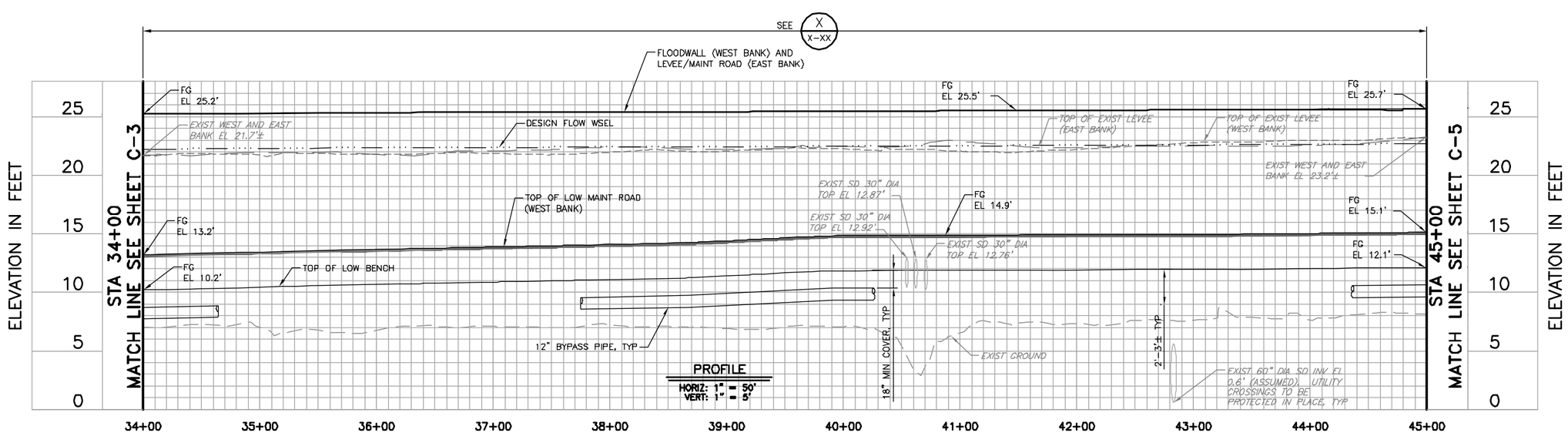
DOCUMENT NUMBER: BER_CY-C-4017-XXXXX

USERNAME: JENNFORD Fri 18 Feb 2011 03:47pm
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\C-03



PLAN

PLAN SCALE 1" = 50'



PROFILE

HORIZ: 1" = 50'
VERT: 1" = 5'

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES

1. AERIAL PHOTOGRAPHY WAS TAKEN JULY 2008.
2. CONSTRUCT 70' LONG x 30' WIDE TURNOUTS SPACED APPROX EVERY 500'.
3. MAINT ROADS SHALL HAVE A 2% CROSS SLOPE TO CREEK.
4. 12" BYPASS EQUIPPED WITH QUICK COUPLING SPACED AT 300'±.

DATE	ENGINEERING CERTIFICATION
FEB 2011	REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
DESIGN B. TAN	
DRAWN J. FORD	
CHECKED T. NDAH	PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

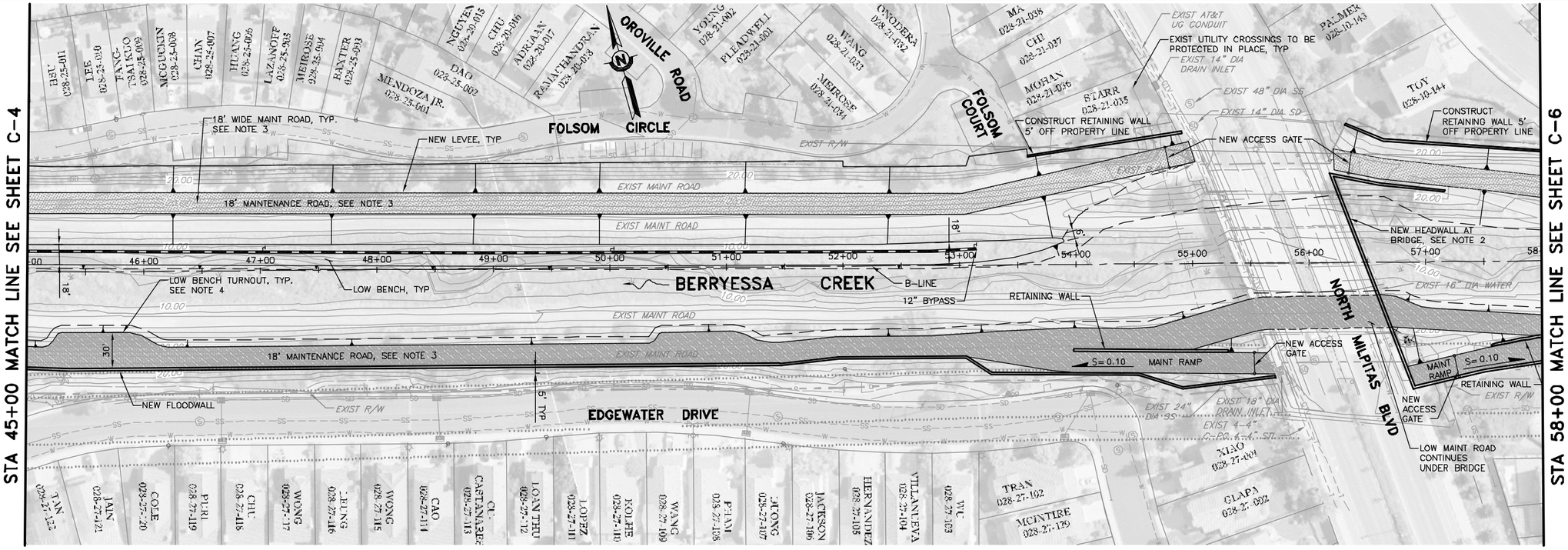
LOWER BERRYESSA CREEK PROJECT

PLAN AND PROFILE LOWER BERRYESSA CREEK
STA 34+00 TO STA 45+00

SCALE	PROJECT NUMBER
AS SHOWN	40174004
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-4
	SHEET NUMBER: 22 OF 94

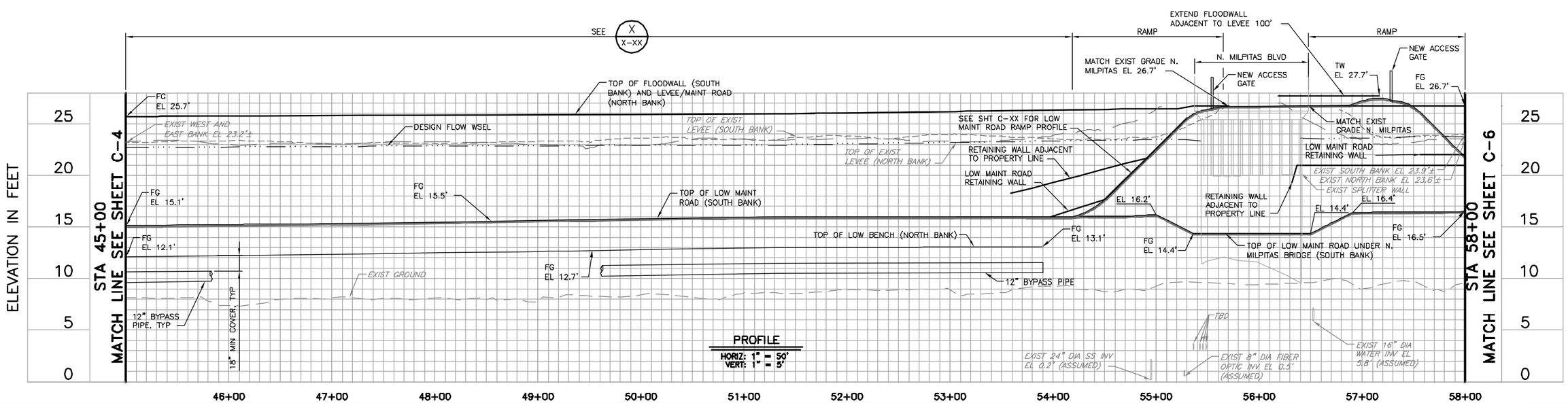
USERNAME: JENNFORD Fri 18 Feb 2011 03:51pm
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\C-04

DOCUMENT NUMBER: BER_CY-C-4017-XXXXX



PLAN

PLAN SCALE 1" = 50'



PROFILE

HORIZ: 1" = 50'
VERT: 1" = 5'

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES

1. AERIAL PHOTOGRAPHY WAS TAKEN JULY 2008.
2. CONSTRUCT HEADWALL ON UPSTREAM FACE OF NORTH MILPITAS BRIDGE TO PROVIDE 4' OF FREEBOARD.
3. MAINT ROADS SHALL HAVE A 2% CROSS SLOPE TO CREEK.
4. CONSTRUCT 70' LONG x 30' WIDE TURNOUTS SPACED APPROX EVERY 500'.

DATE	ENGINEERING CERTIFICATION
FEB 2011	REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
DESIGN B. TAN	
DRAWN J. FORD	
CHECKED T. NDAH	PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

PLAN AND PROFILE LOWER BERRYESSA CREEK
STA 45+00 TO STA 58+00

SCALE	PROJECT NUMBER
AS SHOWN	40174004
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-5
	SHEET NUMBER: 23 OF 94

DOCUMENT NUMBER: BER_CY-C-4017-XXXXX

USERNAME: JENNFORD Fri 18 Feb 2011 03:54pm
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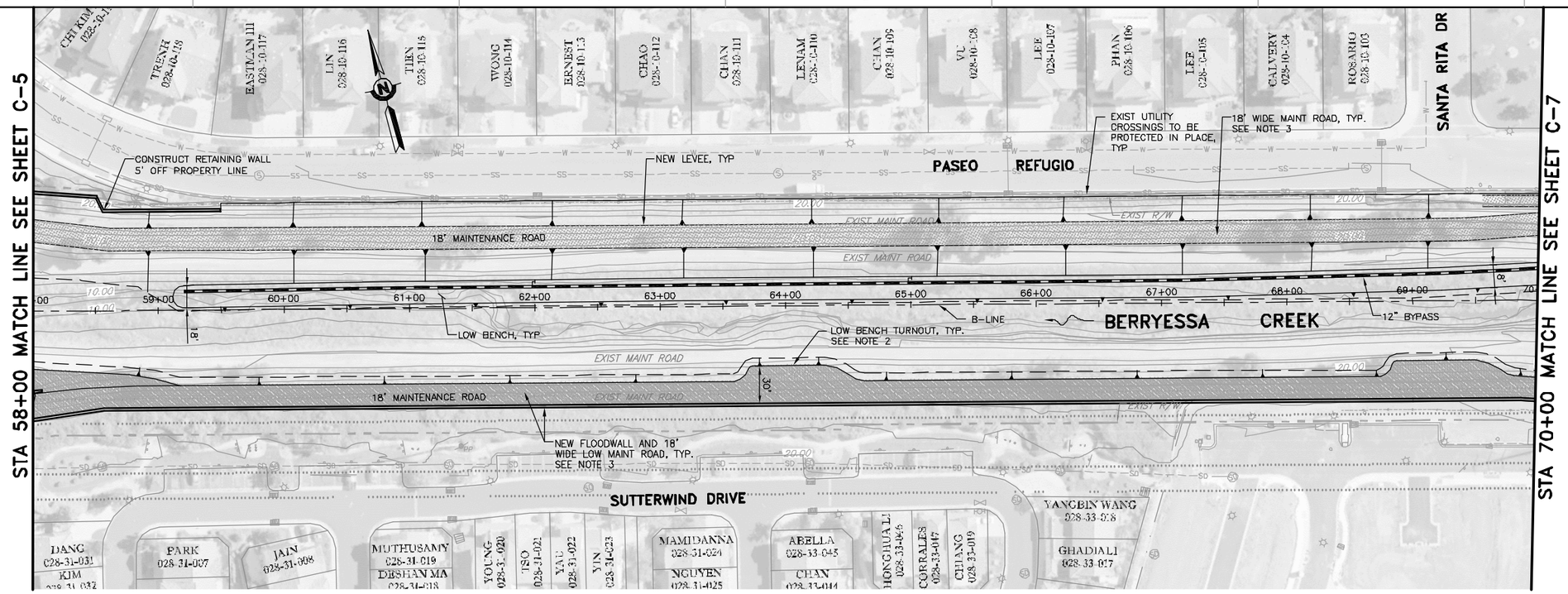
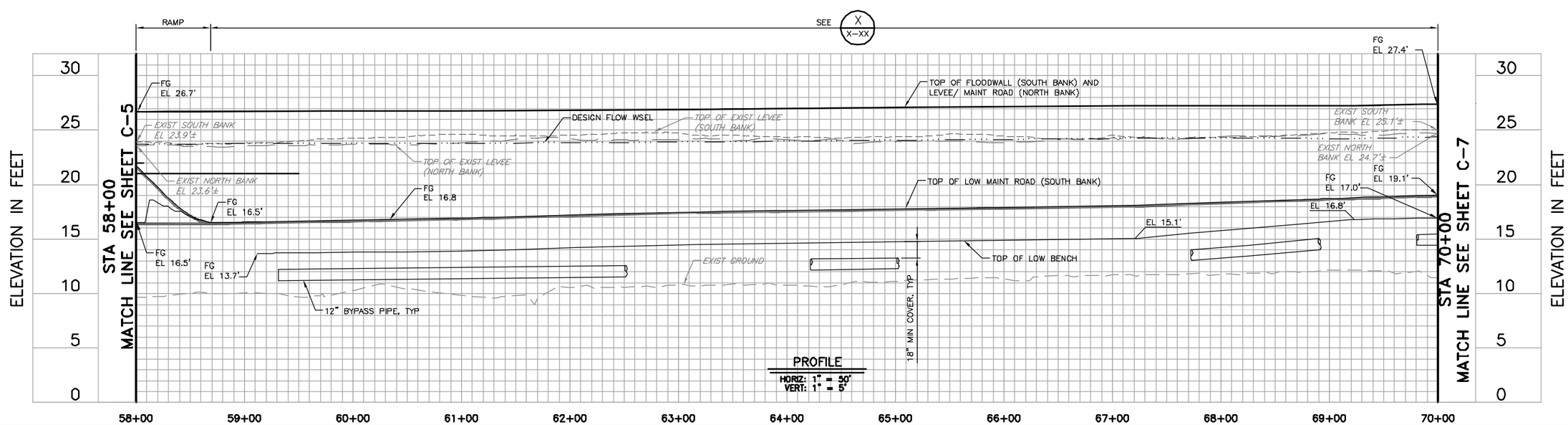


PLAN

PLAN SCALE 1" = 50'



PROFILE

HORIZ: 1" = 50'
VERT: 1" = 5'

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES

1. AERIAL PHOTOGRAPHY WAS TAKEN JULY 2008.
2. CONSTRUCT 70' LONG x 30' WIDE TURNOUTS SPACED APPROX EVERY 500'.
3. MAINT ROADS SHALL HAVE A 2% CROSS SLOPE TO CREEK.

DATE	ENGINEERING CERTIFICATION
FEB 2011	REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
DESIGN B. TAN	
DRAWN J. FORD	
CHECKED T. NDAH	PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

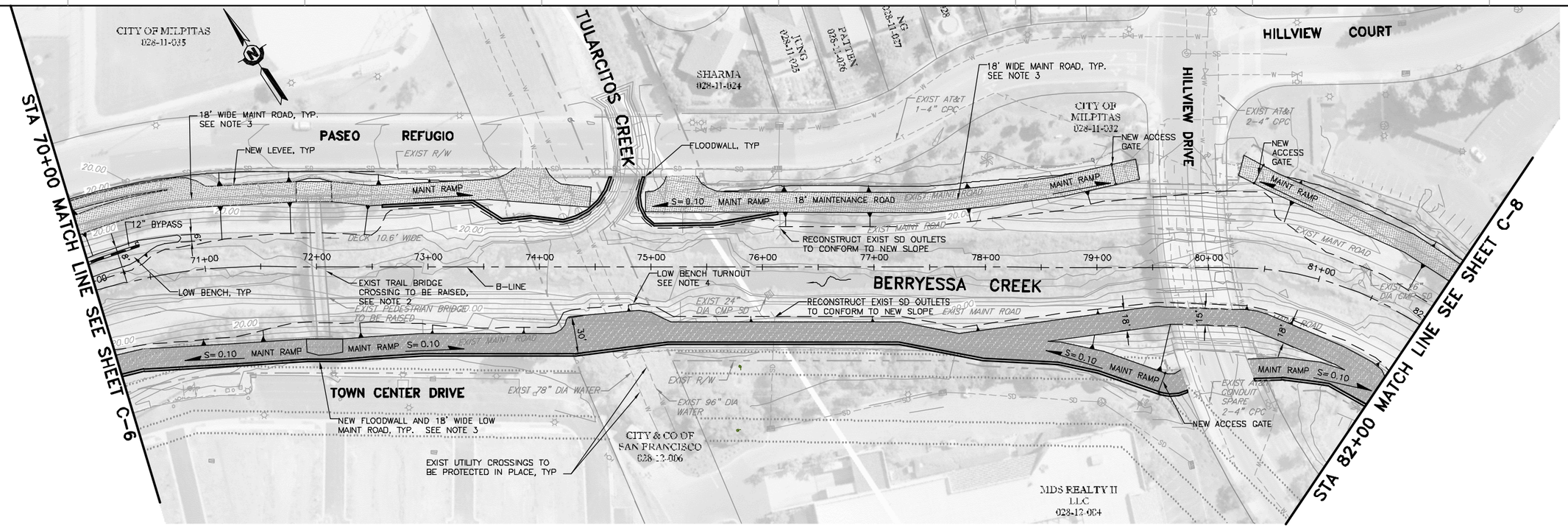
LOWER BERRYESSA CREEK PROJECT

PLAN AND PROFILE LOWER BERRYESSA CREEK
STA 58+00 TO STA 70+00

SCALE	PROJECT NUMBER
AS SHOWN	40174004
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-6
	SHEET NUMBER: 24 OF 94

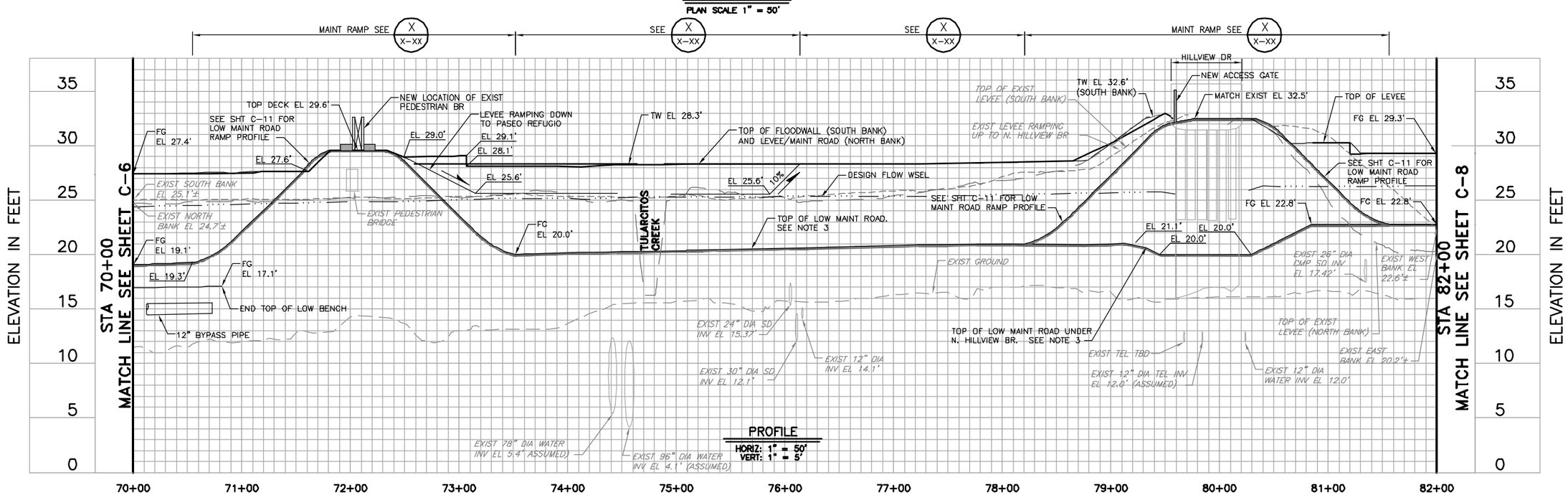
USERNAME: JENNFORD Fri, 18 Feb 2011 03:59pm
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\C-06

DOCUMENT NUMBER: BER_CY-C-4017-XXXXX



PLAN

PLAN SCALE 1" = 50'



PROFILE

HORIZ: 1" = 50'
VERT: 1" = 5'

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES

1. AERIAL PHOTOGRAPHY WAS TAKEN JULY 2008.
2. EXIST PEDESTRIAN BRIDGE TO BE REMOVED AND STORED UNTIL NEW LEVEE AND NEW ABUTMENTS ARE CONSTRUCTED THEN PLACED BACK ON NEW ABUTMENTS.
3. MAINT ROADS SHALL HAVE A 2% CROSS SLOPE TO CREEK.
4. CONSTRUCT 70' LONG x 30' WIDE TURNOUTS SPACED APPROX EVERY 500'.

DATE	FEB 2011
DESIGN	B. TAN
DRAWN	J. FORD
CHECKED	T. NDAH

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

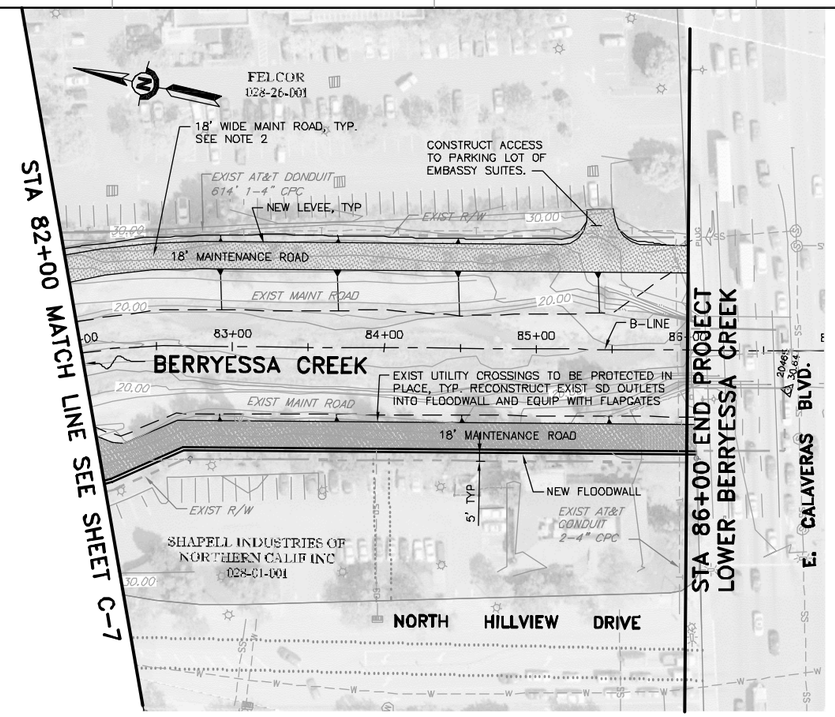
LOWER BERRYESSA CREEK PROJECT

PLAN AND PROFILE LOWER BERRYESSA CREEK
STA 70+00 TO STA 82+00

SCALE	PROJECT NUMBER
AS SHOWN	40174004
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-7
	SHEET NUMBER: 25 OF 94

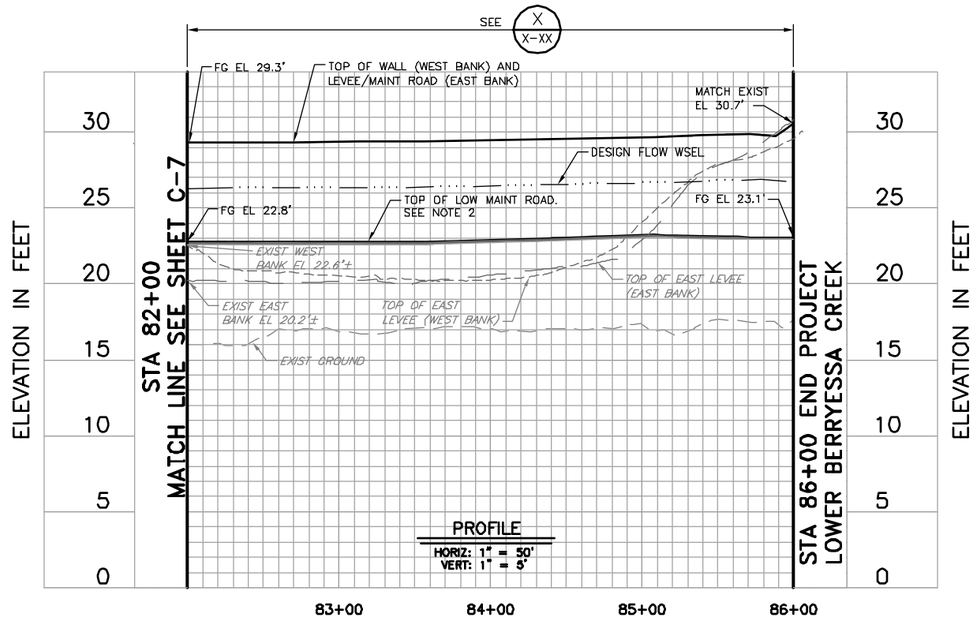
DOCUMENT NUMBER: BER_CY-C-4017-XXXXX

USERNAME: JENNFORD, Tue 22 Feb 2011 07:53am
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\C-07



PLAN

PLAN SCALE 1" = 50'



PROFILE

HORIZ: 1" = 50'
VERT: 1" = 5'

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES

1. AERIAL PHOTOGRAPHY WAS TAKEN JULY 2008.
2. MAINT ROADS SHALL HAVE A 2% CROSS SLOPE TO CREEK.

DATE	ENGINEERING CERTIFICATION
FEB 2011	REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
DESIGN B. TAN	
DRAWN J. FORD	
CHECKED T. NDAH	PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

PLAN AND PROFILE LOWER BERRYESSA CREEK
STA 82+00 TO STA 86+00

SCALE	PROJECT NUMBER
AS SHOWN	40174004
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-8
	SHEET NUMBER: 26 OF 94

DOCUMENT NUMBER: BER_CY-C-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 07:55am
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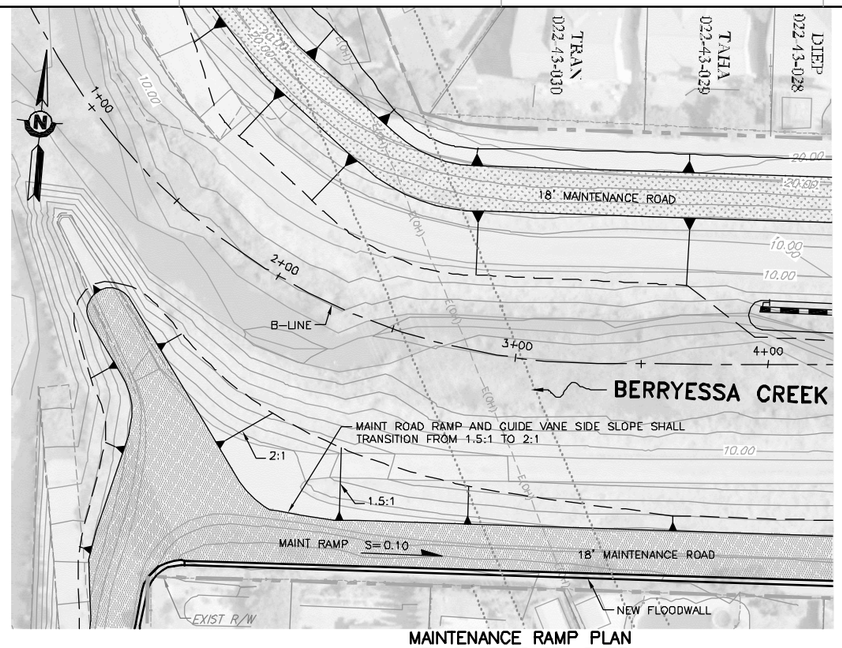
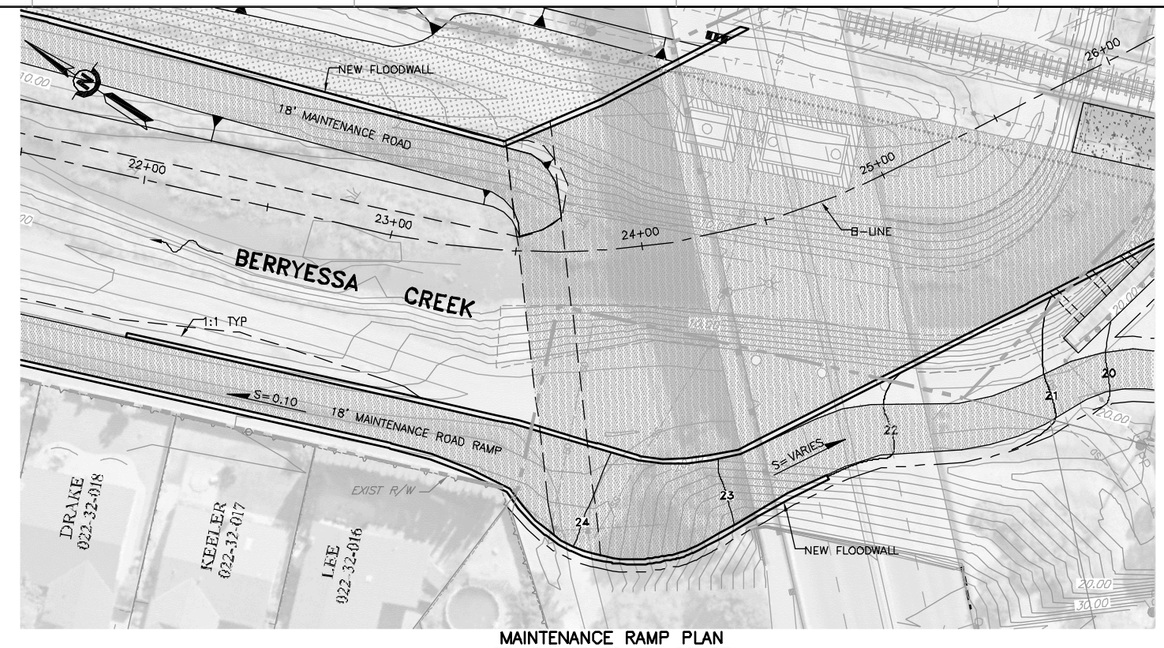
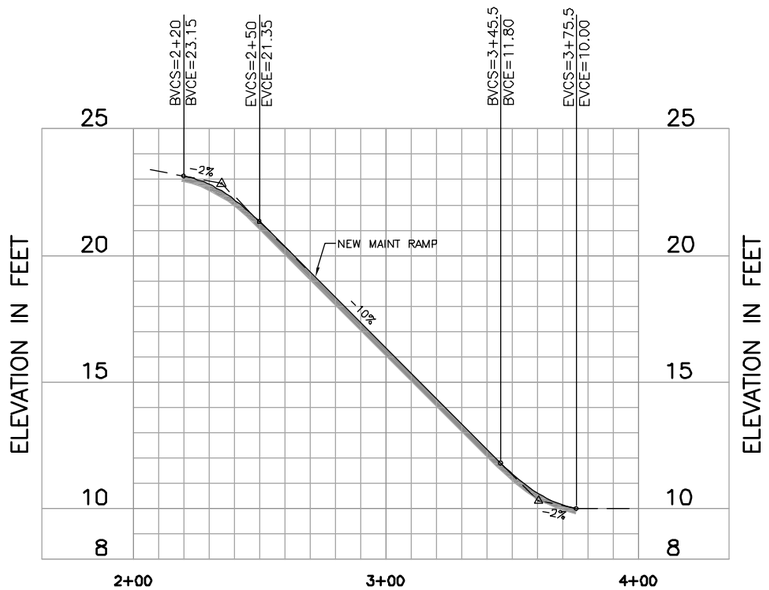


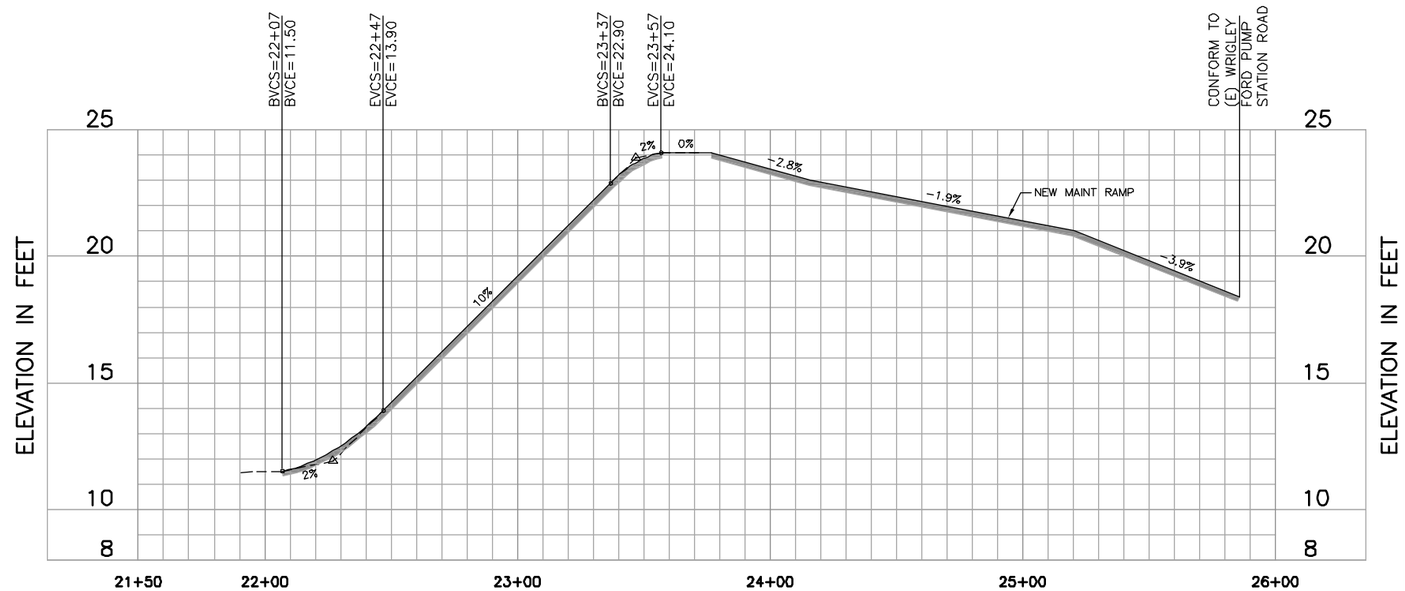
MAINTENANCE RAMP PLAN
STA 2+20 TO STA 3+75
PLAN SCALE 1" = 30'



MAINTENANCE RAMP PLAN
STA 22+07 TO STA 23+57
PLAN SCALE 1" = 30'



MAINTENANCE RAMP PROFILE
STA 2+20 TO STA 3+75
HORIZ: 1" = 30'
VERT: 1" = 3'



MAINTENANCE RAMP PROFILE
STA 22+07 TO STA 23+57
HORIZ: 1" = 30'
VERT: 1" = 3'

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES

1. AERIAL PHOTOGRAPHY WAS TAKEN JULY 2008.
2. MAINT ROADS SHALL HAVE A 2% CROSS SLOPE TO CREEK.

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

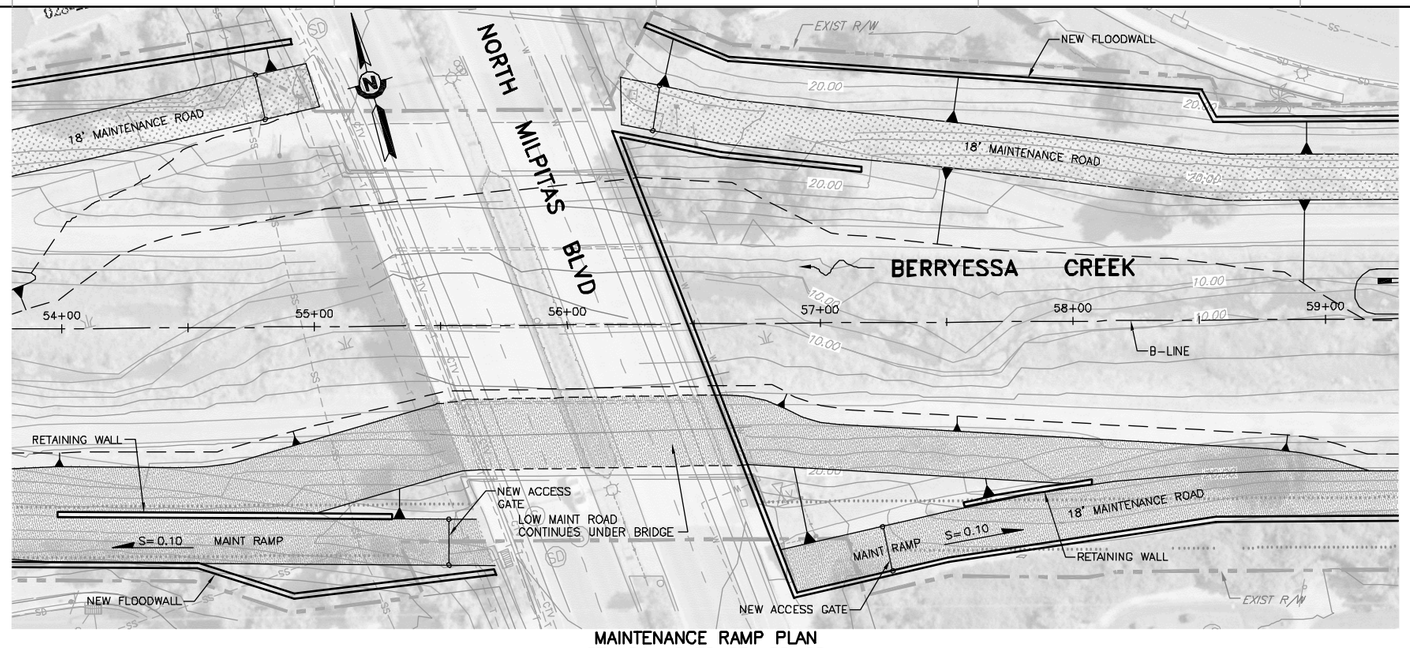
LOWER BERRYESSA CREEK PROJECT

PLAN AND PROFILE MAINTENANCE RAMPS
STA 2+20 TO STA 3+75;
STA 22+07 TO STA 23+57

SCALE: AS SHOWN
VERIFY SCALES: 0 — 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

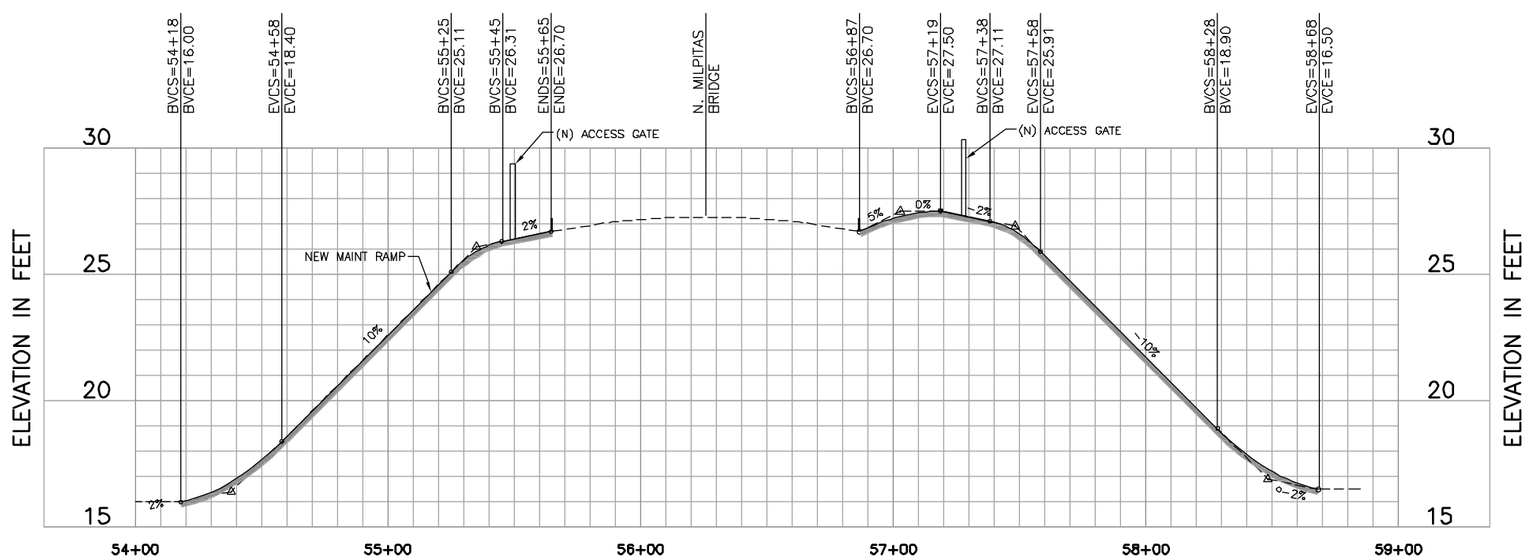
PROJECT NUMBER: 40174004
SHEET CODE: C-9
SHEET NUMBER: 27 OF 94

DOCUMENT NUMBER: BER_CY-C-4017-XXXXX
USERNAME: JENNFORD, Tue 22 Feb 2011 07:58am
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\C-09



MAINTENANCE RAMP PLAN
STA 54+18 TO STA 58+68

PLAN SCALE 1" = 30'



MAINTENANCE RAMP PROFILE
STA 54+18 TO STA 58+68

HORIZ: 1" = 30'
VERT: 1" = 3'

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES

1. AERIAL PHOTOGRAPHY WAS TAKEN JULY 2008.
2. MAINT ROADS SHALL HAVE A 2% CROSS SLOPE TO CREEK.

DATE	ENGINEERING CERTIFICATION
FEB 2011	REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
DESIGN B. TAN	
DRAWN J. FORD	
CHECKED T. NDAH	PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

PLAN AND PROFILE MAINTENANCE RAMP
STA 54+18 TO STA 58+68

SCALE	PROJECT NUMBER
AS SHOWN	40174004
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-10
	SHEET NUMBER: 28 OF 94

DOCUMENT NUMBER: BER_CY-C-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 08:03am
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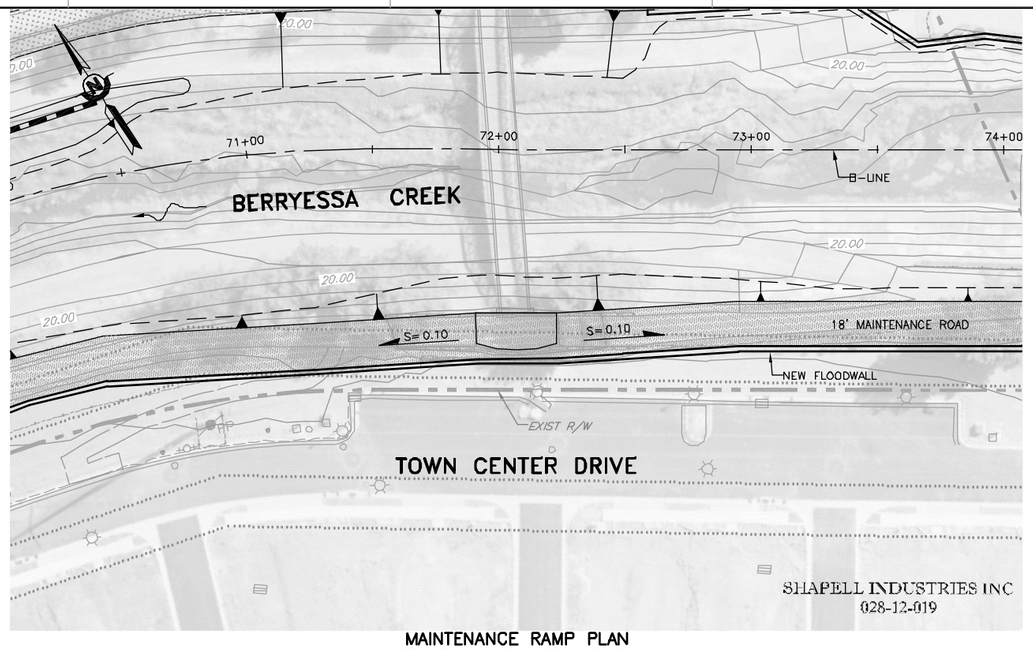
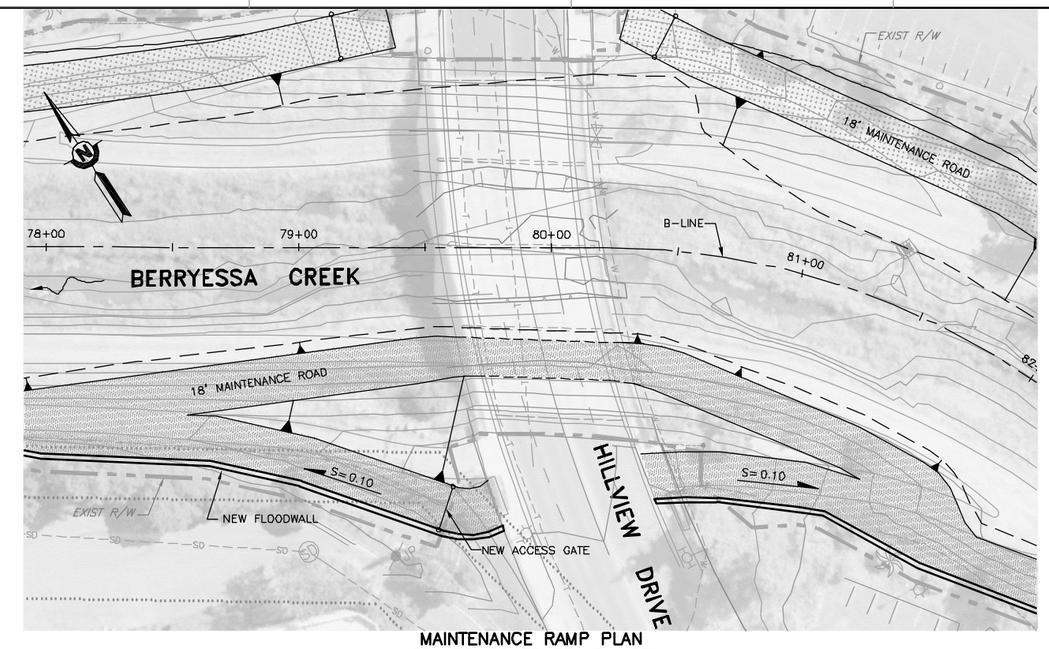
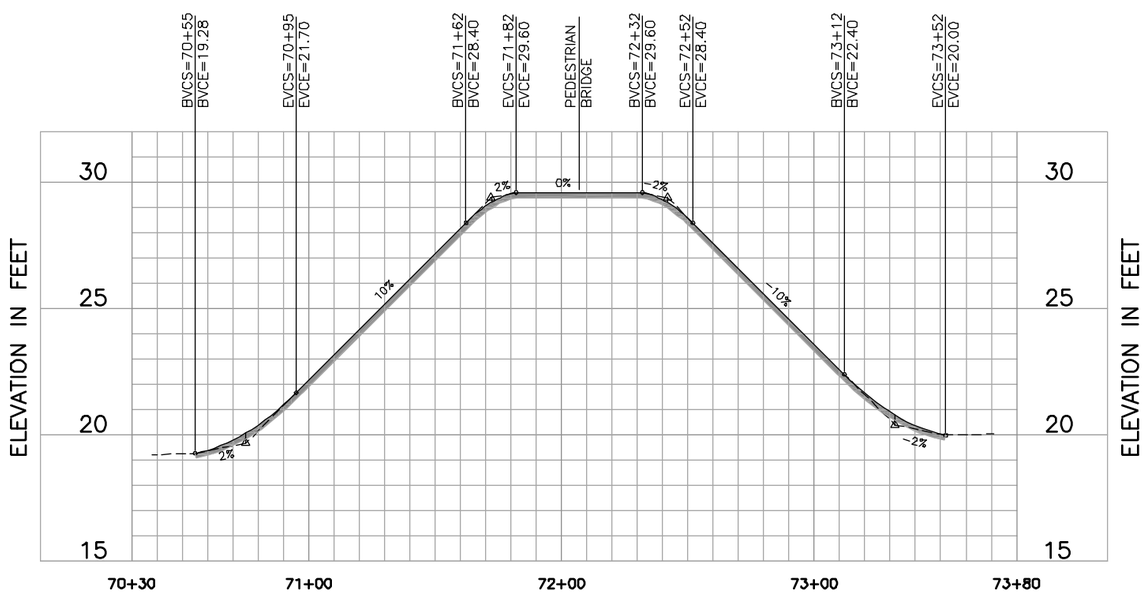


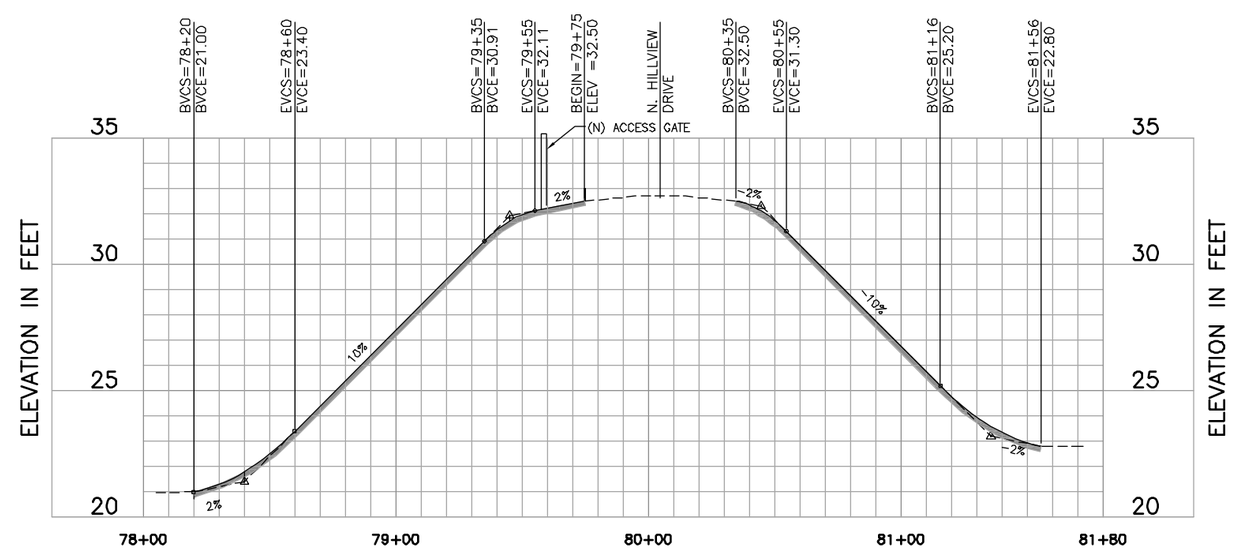
MAINTENANCE RAMP PLAN
STA 70+55 TO STA 73+52
PLAN SCALE 1" = 30'



MAINTENANCE RAMP PLAN
STA 78+20 TO STA 81+56
PLAN SCALE 1" = 30'



MAINTENANCE RAMP PROFILE
STA 70+55 TO STA 73+52
HORIZ: 1" = 30'
VERT: 1" = 3'



MAINTENANCE RAMP PROFILE
STA 78+20 TO STA 81+56
HORIZ: 1" = 30'
VERT: 1" = 3'

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES

1. AERIAL PHOTOGRAPHY WAS TAKEN JULY 2008.
2. MAINT ROADS SHALL HAVE A 2% CROSS SLOPE TO CREEK.

DATE	ENGINEERING CERTIFICATION
FEB 2011	REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
DESIGN B. TAN	
DRAWN J. FORD	
CHECKED T. NDAH	PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

PLAN AND PROFILE MAINTENANCE RAMPS
STA 70+55 TO STA 73+52;
STA 78+20 TO STA 81+56

SCALE	PROJECT NUMBER
AS SHOWN	40174004
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-11
	SHEET NUMBER: 29 OF 94

DOCUMENT NUMBER: BER_CY-C-4017-XXXXX

USERNAME: JENNFORD, Tue 22 Feb 2011 08:06am
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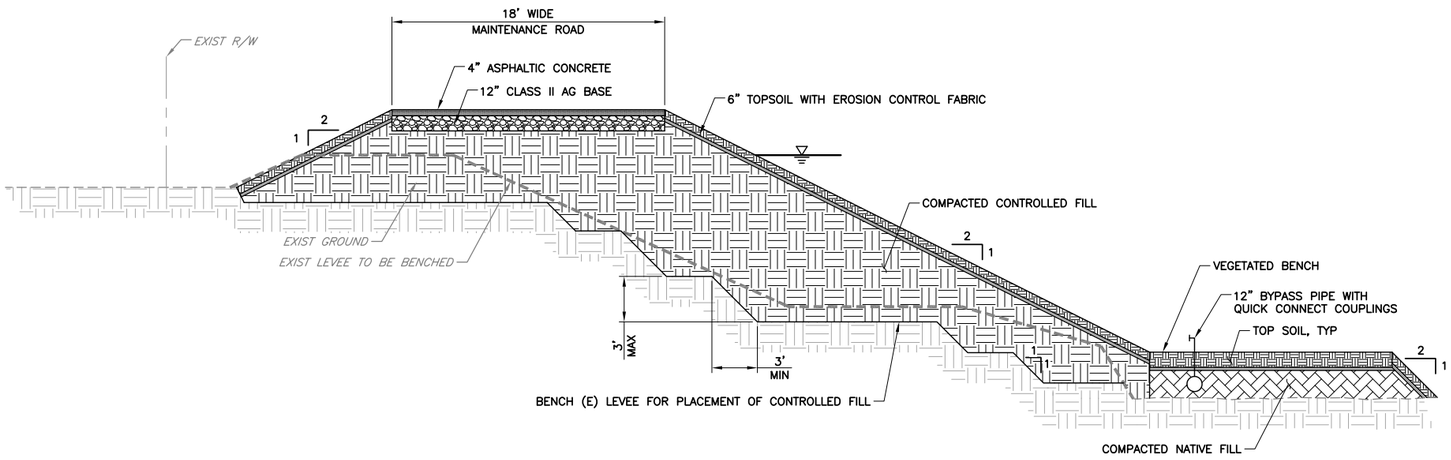
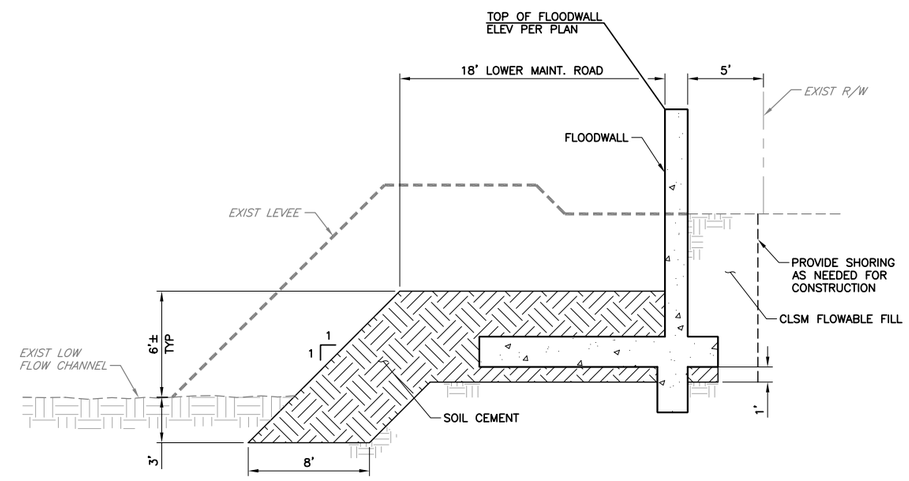


SECTION A — LEVEE AND HIGH MAINTENANCE ROAD

SCALE: 1" = 5'



SECTION B — FLOODWALL AND LOW MAINTENANCE ROAD

SCALE: 1" = 5'

USERNAME: JENNFORD Tue 22 Feb 2011 08:08am
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DOCUMENT NUMBER: BER_CY-C-4017-XXXXX

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-17-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

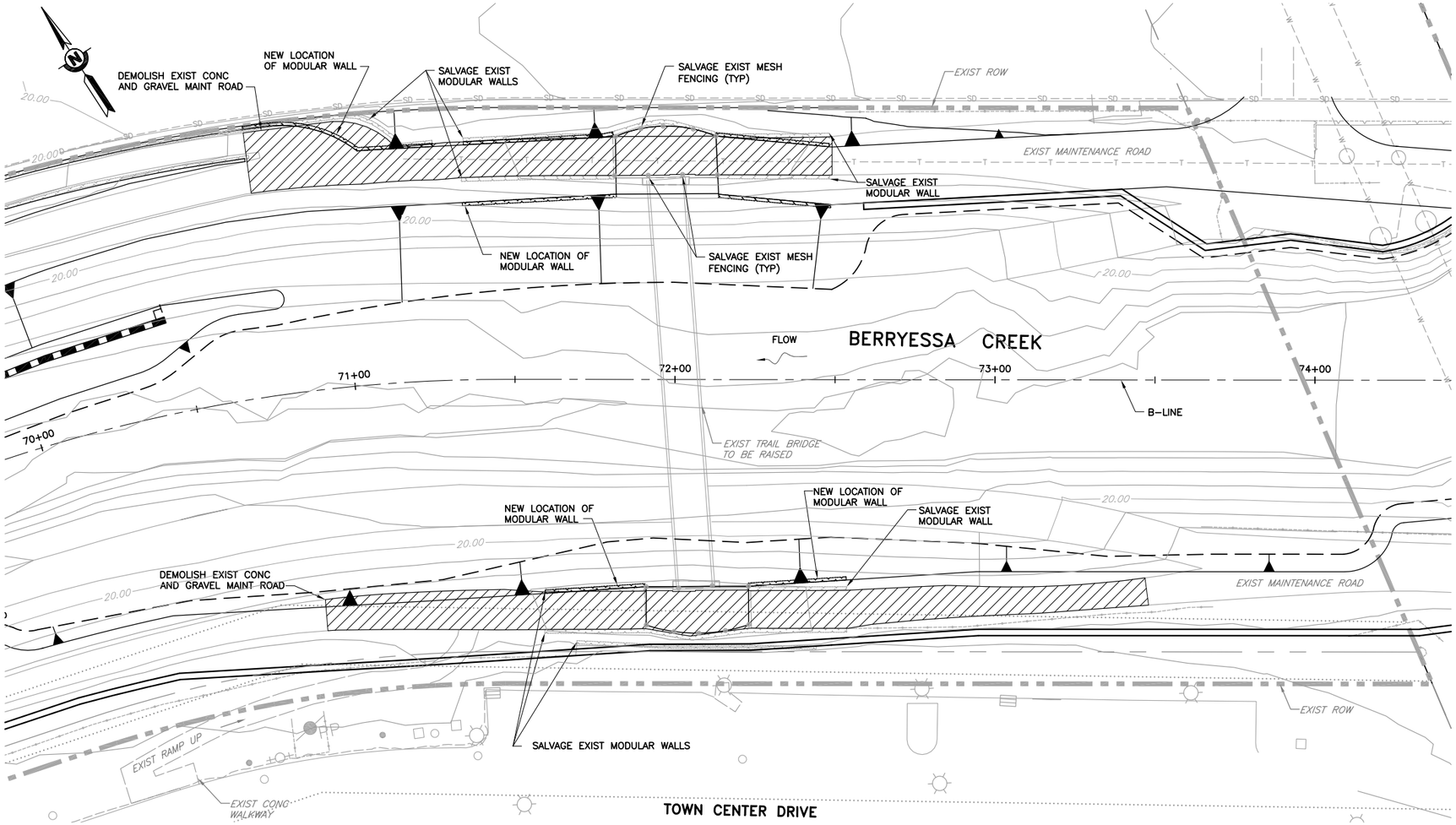
Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT

FLOODWALL, LOW MAINTENANCE ROAD, LEVEE AND HIGH MAINTENANCE ROAD SECTIONS

SCALE: AS SHOWN
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: C-12
SHEET NUMBER: 30 OF 94



PLAN
SCALE 1" = 20'

USERNAME: JENNFORD Tue 22 Feb 2011 08:11am
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\C-13

DOCUMENT NUMBER: XXXX-X-0000-0000000.00

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

DATE: FEB 2011
DESIGN: X
DRAWN: L. PENILLA
CHECKED: X.X.X.

ENGINEERING CERTIFICATION
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
PEDESTRIAN BRIDGE CROSSING
STA 72+00

SCALE: AS SHOWN
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: C-13
SHEET NUMBER: 31 OF 94

USERNAME: JENNFORD Tue 22 Feb 2011 08:15am
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\C-14

POINT TABLE

DESCRIPTION	NORTHING	EASTING
CPT-1	1987822.9366	6151358.2537
CPT-2	1987506.6945	6152054.0176
CPT-3	1986477.1478	6152587.2929
CPT-4	1986356.1548	6152906.3943
CPT-5	1985404.4502	6153328.8133
CPT-6	1985125.4957	6153785.8560
CPT-7	1984838.6371	6154726.3915
CPT-8	1984740.8915	6155123.5069
CPT-9	1984020.5773	6156919.8405
B-1	1987814.4750	6151179.3705
B-2	1987713.7500	6151975.6499
B-3	1987980.5022	6151555.7035
B-4	1987914.0907	6152016.6475
B-5	1987301.6234	6152290.0605
B-6	1986709.1402	6152542.0695
B-7	1985881.8843	6153030.1267
B-8	1984912.2966	6154452.7884
B-9	1985556.3655	6153343.8184
B-10	1985054.6829	6154464.4320
B-11	1984761.9745	6155600.2731

POINT TABLE

DESCRIPTION	NORTHING	EASTING
B-12	1984616.2930	6155600.2731
B-13	1984181.0418	6156923.1309
B-14	1984268.5326	6156551.6462
EB-1	1984862.6556	6155215.9922
EB-2	1983607.6786	6157303.9904
EB-3	1983891.9273	6157082.9040
EB-4	1984172.7720	6156937.0825
EB-5	1984153.3636	6156765.0274
EB-6	1984595.8540	6156112.4740
EB-7	1984477.9293	6156149.7359
EB-8	1985063.2505	6154314.4060
EB-9	1984997.0755	6154259.0650
EB-10	1985936.7789	6153121.9552
EB-11	1985593.9471	6153157.8056
EB-12	1986452.1501	6152987.1627
EB-13	1986295.7908	6152915.6831
EB-14	1986732.1470	6152359.6562
EB-15	1987374.5887	6152109.0901
EB-16	1987833.9814	6151553.1749
EB-17	1987968.0349	6151280.5378

POINT TABLE

DESCRIPTION	NORTHING	EASTING
EB-18	1987514.8342	6152050.9866
EB-19	1986467.3498	6152579.0641
EB-20	1986339.8287	6152907.1399
EB-21	1985126.1769	6153770.7058

DOCUMENT NUMBER: BER_CY-C-4017-XXXXX

REV	DESCRIPTION	DATE	APPR.
	60% PRELIMINARY 02-17-11		

REFERENCE INFORMATION AND NOTES
1. AERIAL PHOTOGRAPHY WAS TAKEN APRIL 2002.

DATE	FEB 2011
DESIGN	B. TAN
DRAWN	J. FORD
CHECKED	T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

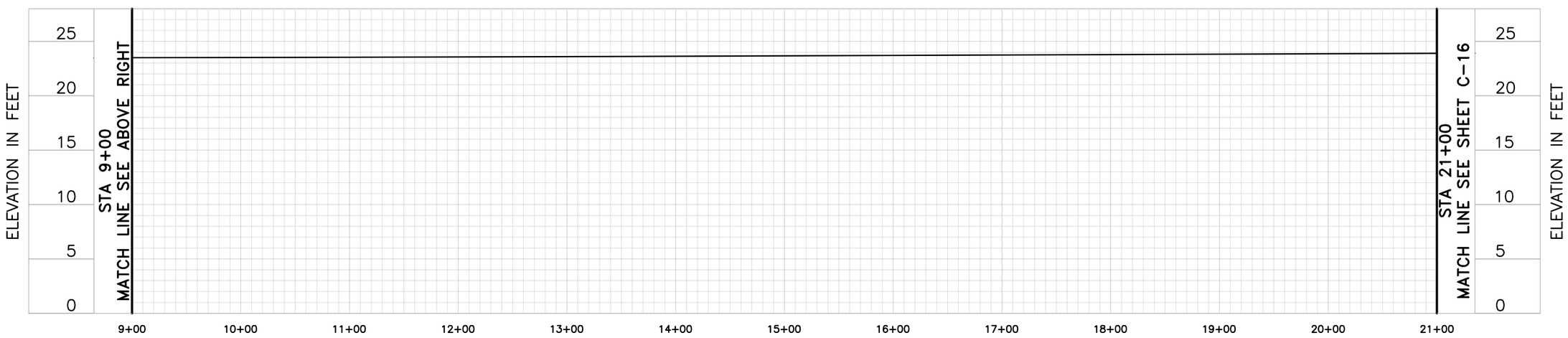
PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
BORING LOCATIONS

SCALE 1" = 250'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: C-14
SHEET NUMBER: 32 OF 94

DEVELOPED ELEVATION

HORIZ: 1" = 50'
VERT: 1" = 5'



DEVELOPED ELEVATION

HORIZ: 1" = 50'
VERT: 1" = 5'

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-17-11			

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

FLOODWALL PROFILES – DEVELOPED ELEVATIONS
STA 0+00 TO STA 21+00

SCALE: AS SHOWN
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: C-15
SHEET NUMBER: 33 OF 94

DOCUMENT NUMBER: BER_CY-C-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 08:17am
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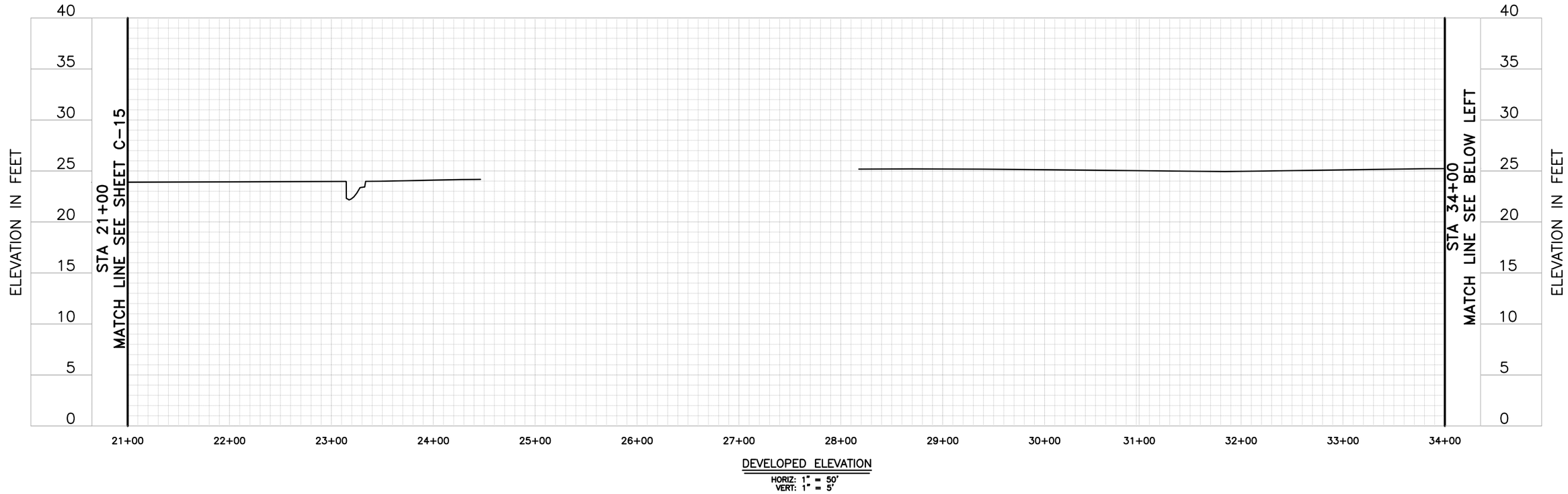

USERNAME: JENNFORD Tue 22 Feb 2011 08:19am
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DOCUMENT NUMBER: BER_CY-C-4017-XXXXX

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-17-11			

DATE	ENGINEERING CERTIFICATION
FEB 2011	REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
DESIGN B. TAN	
DRAWN J. FORD	
CHECKED T. NDAH	PROJECT ENGINEER DATE

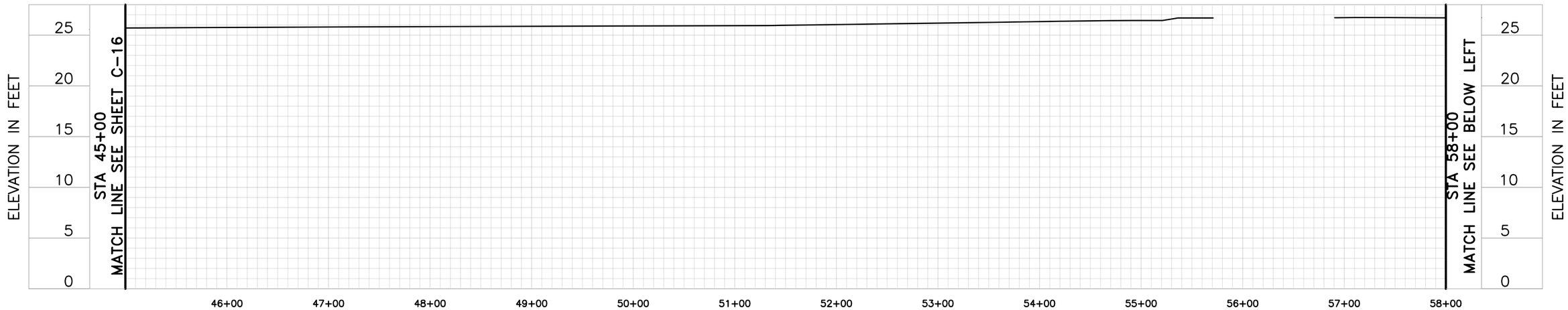
Santa Clara Valley Water District

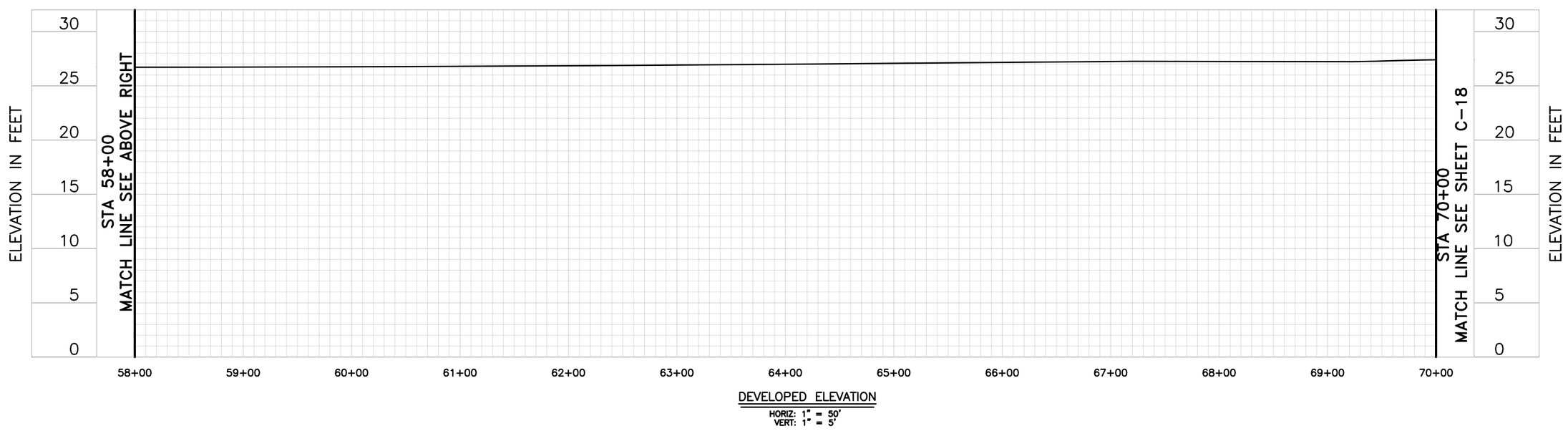
PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

FLOODWALL PROFILES – DEVELOPED ELEVATIONS STA 21+00 TO STA 45+00

SCALE	PROJECT NUMBER
AS SHOWN	40174004
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-16
	SHEET NUMBER: 34 OF 94





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DOCUMENT NUMBER: BER_CY-C-4017-XXXXX

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-17-11			

DATE	ENGINEERING CERTIFICATION
FEB 2011	REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
DESIGN B. TAN	
DRAWN J. FORD	
CHECKED T. NDAH	PROJECT ENGINEER DATE

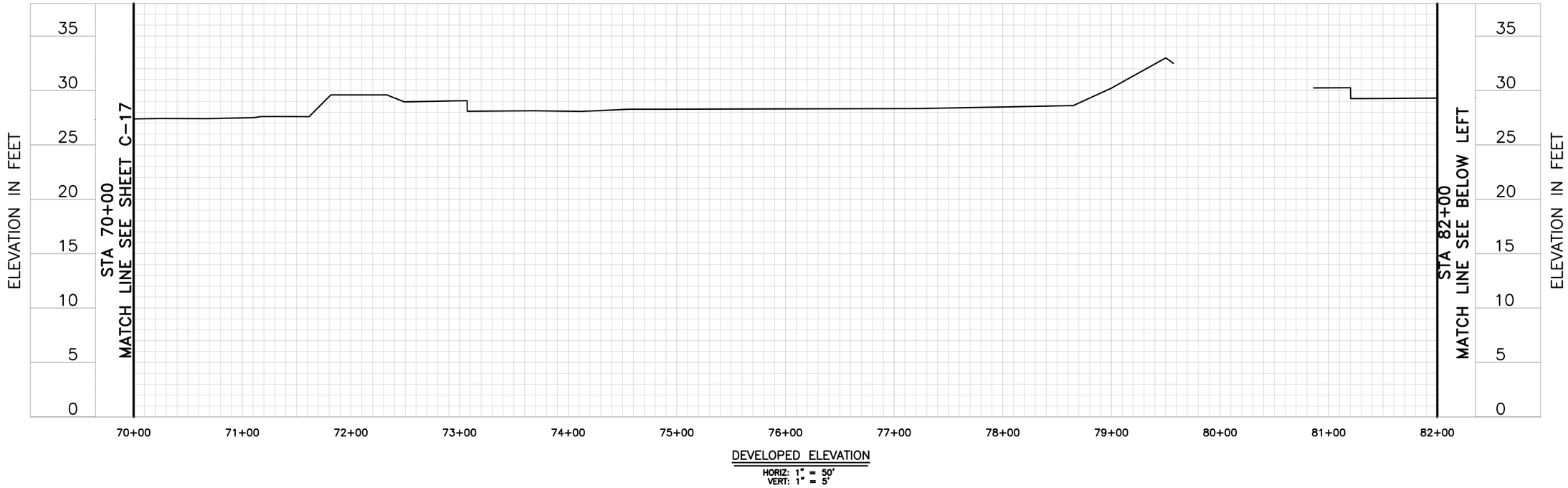
Santa Clara Valley Water District

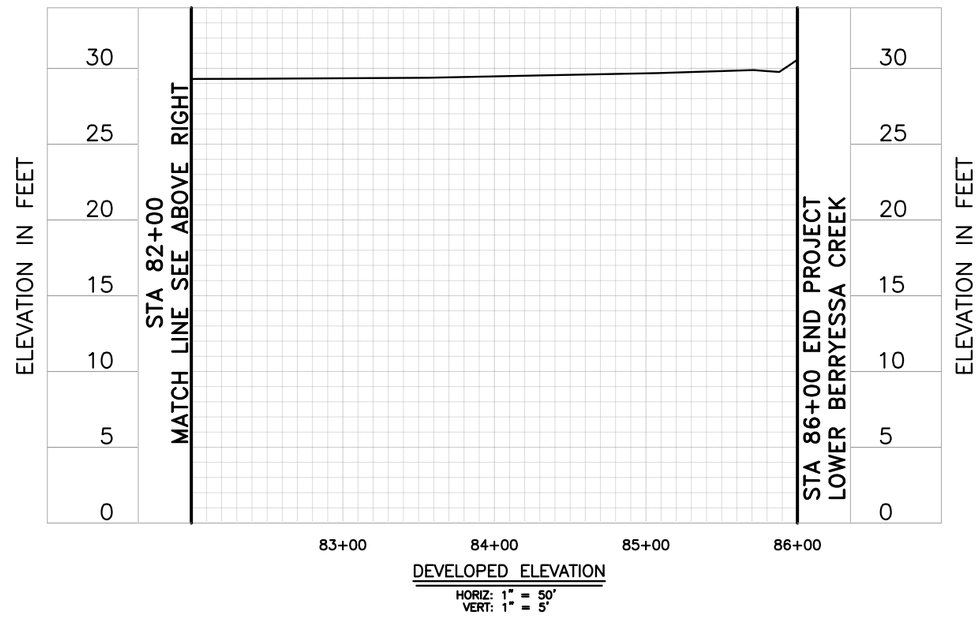
PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

FLOODWALL PROFILES – DEVELOPED ELEVATIONS STA 45+00 TO STA 70+00

SCALE	PROJECT NUMBER
AS SHOWN	40174004
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-17
	SHEET NUMBER: 35 OF 94





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DOCUMENT NUMBER: BER_CY-C-4017-XXXXX

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-17-11			

DATE	ENGINEERING CERTIFICATION
FEB 2011	REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
DESIGN B. TAN	
DRAWN J. FORD	
CHECKED T. NDAH	PROJECT ENGINEER DATE

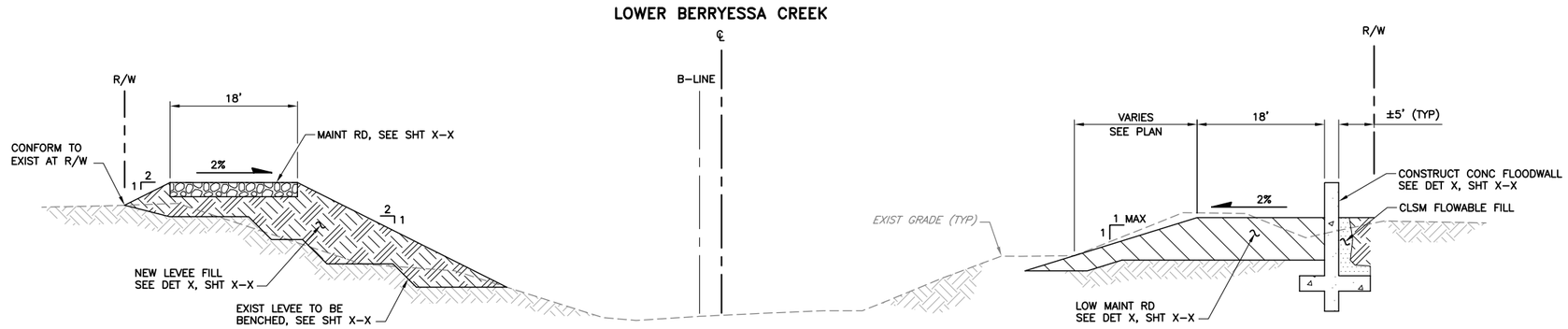
Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

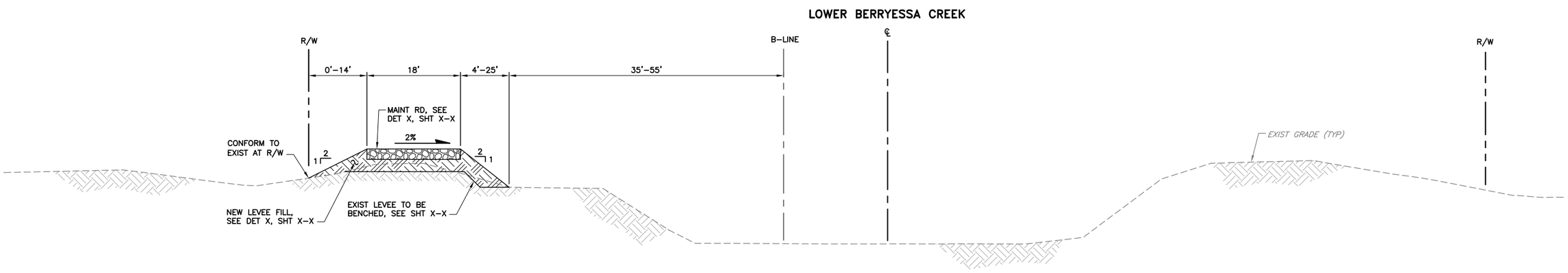
LOWER BERRYESSA CREEK PROJECT

FLOODWALL PROFILES – DEVELOPED ELEVATIONS
STA 70+00 TO STA 86+00

SCALE	PROJECT NUMBER
AS SHOWN	40174004
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: C-18
	SHEET NUMBER: 36 OF 94



TYPICAL SECTION B/– STA 1+50 TO STA 4+00; STA 9+26 TO STA 11+30; STA 20+30 TO STA 21+50
STA 70+80 TO STA 72+50; STA 76+15 TO STA 79+55; STA 80+18 TO STA 86+00
SCALE: NTS



TYPICAL SECTION A/– STA 0+00 TO STA 1+50
SCALE: NTS

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
FLOODPLAIN TYPICAL SECTIONS

SCALE: NTS
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: C-19
SHEET NUMBER: 37 OF 94

DOCUMENT NUMBER: BER_CY-C-4017-XXXXX
USERNAME: JENNFORD Tue 22 Feb 2011 03:34pm
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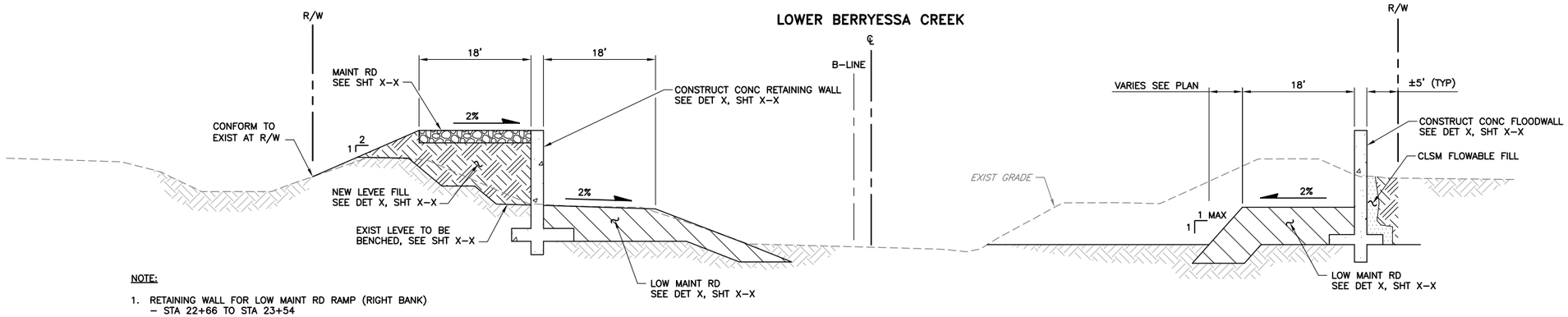
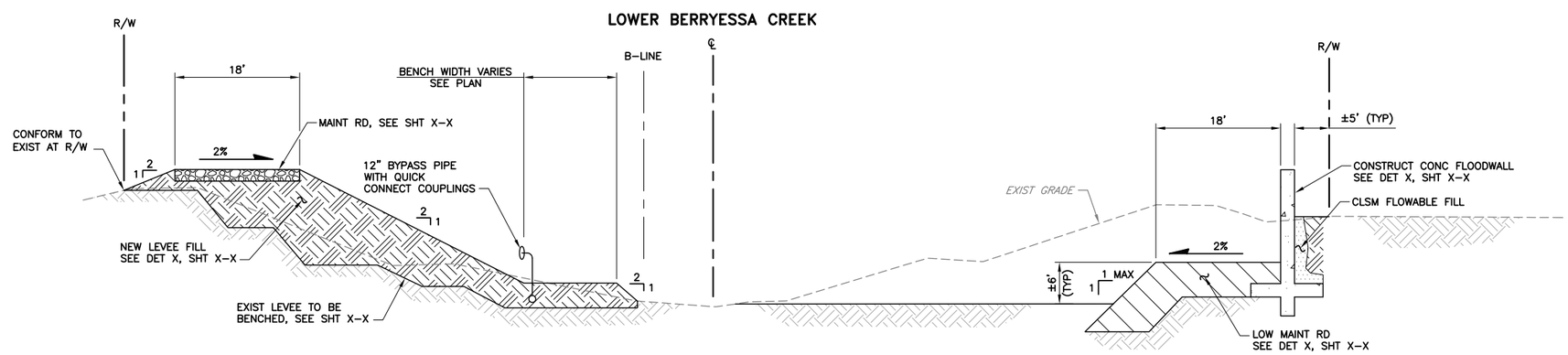


NOTE:

1. RETAINING WALL FOR LOW MAINT RD RAMP (RIGHT BANK) – STA 22+66 TO STA 23+54

TYPICAL SECTION D/– STA 21+50 TO STA 23+54

SCALE: NTS



TYPICAL SECTION C/– STA 4+00 TO STA 9+26; STA 11+30 TO STA 20+30 STA 30+30 TO STA 54+54; STA 59+12 TO STA 70+80

SCALE: NTS

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION: REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

FLOODPLAIN TYPICAL SECTIONS

SCALE: NTS
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: C-20
SHEET NUMBER: 38 OF 94

DOCUMENT NUMBER: BER_CY-C-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 03:35pm
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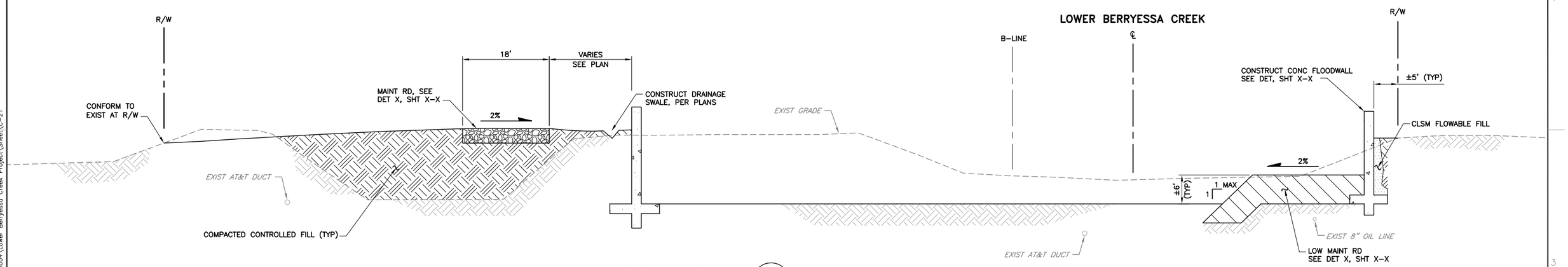
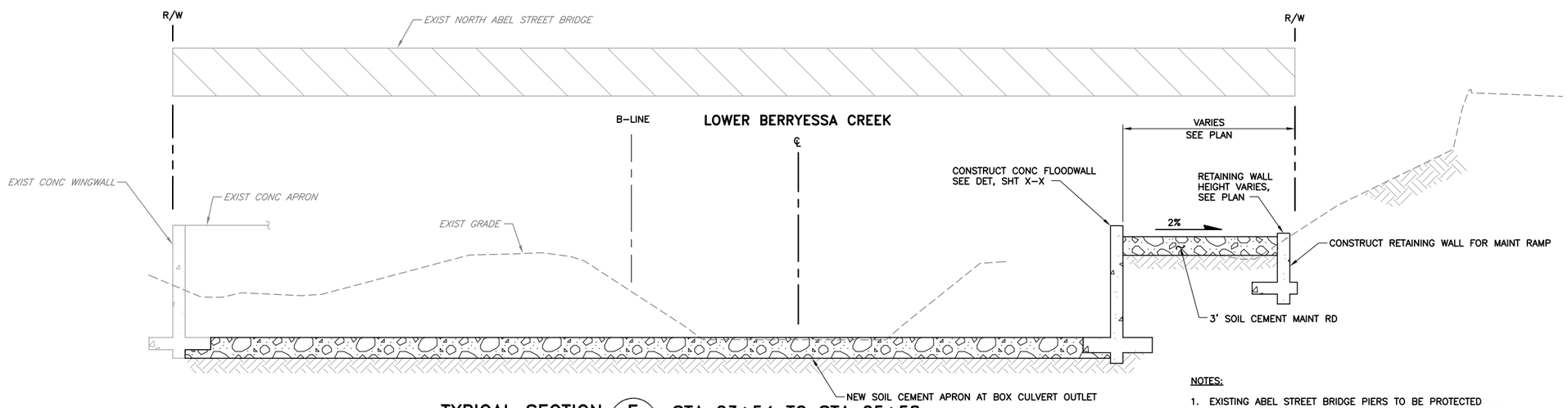


TYPICAL SECTION F/– STA 27+20 TO STA 29+25

SCALE: NTS



TYPICAL SECTION E/– STA 23+54 TO STA 25+58

SCALE: NTS

NOTES:

1. EXISTING ABEL STREET BRIDGE PIERS TO BE PROTECTED
2. EXISTING 27" SANITARY SEWER TO BE PROTECTED IN PLACE
3. RETAINING WALL – STA 23+54 TO STA 24+45
4. MODIFY EXIST OUTLET STRUCTURE AT WRIGLEY FORD PUMP STATION TO DISCHARGE THROUGH FLOODWALL

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION: REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

FLOODPLAIN TYPICAL SECTIONS

SCALE: NTS

VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

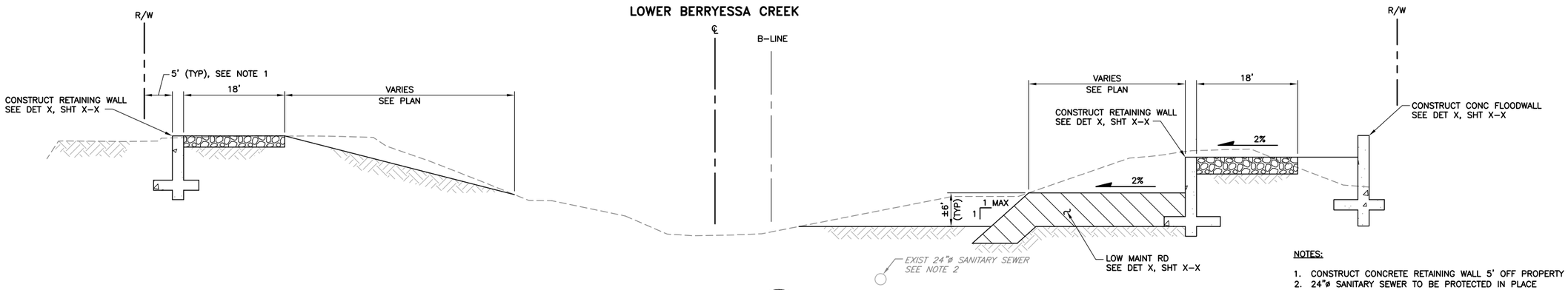
PROJECT NUMBER: 40174004

SHEET CODE: C-21

SHEET NUMBER: 39 OF 94

USERNAME: JENNFORD Tue 22 Feb 2011 03:36pm
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\C-21

DOCUMENT NUMBER: BER_CY-C-4017-XXXXX

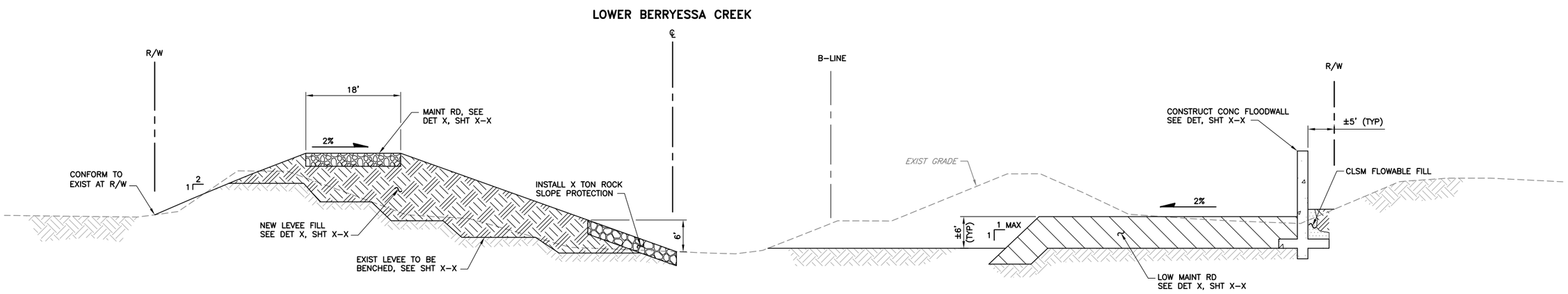


NOTES:

1. CONSTRUCT CONCRETE RETAINING WALL 5' OFF PROPERTY LINE
2. 24"ø SANITARY SEWER TO BE PROTECTED IN PLACE

TYPICAL SECTION H/– STA 54+54 TO STA 55+37

SCALE: NTS



TYPICAL SECTION G/– STA 29+25 TO STA 30+30

SCALE: NTS

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION: REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

FLOODPLAIN TYPICAL SECTIONS

SCALE: NTS
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: C-22
SHEET NUMBER: 40 OF 94

DOCUMENT NUMBER: BER_CY-C-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 03:37pm
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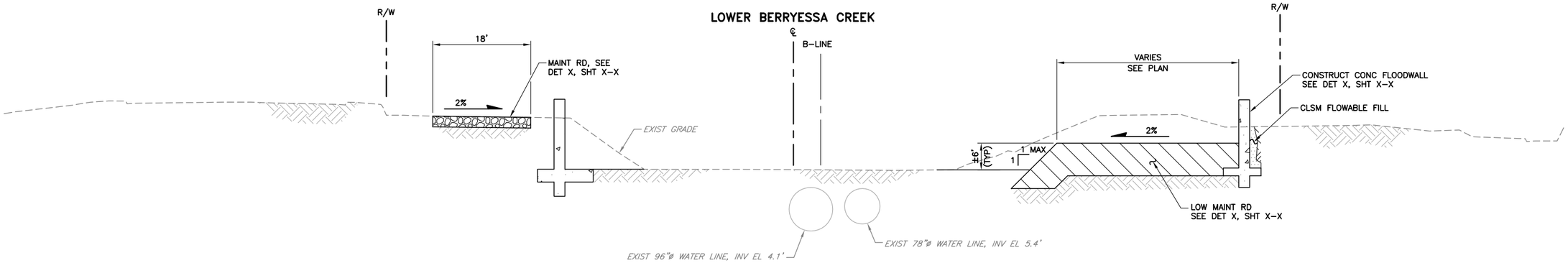
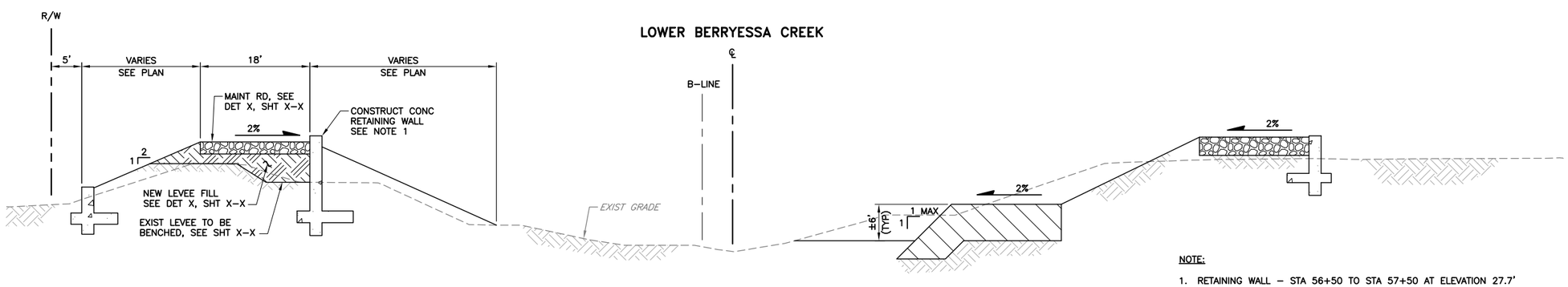


TYPICAL SECTION J – STA 72+50 TO 76+15

SCALE: NTS



NOTE:

1. RETAINING WALL – STA 56+50 TO STA 57+50 AT ELEVATION 27.7'

TYPICAL SECTION I – STA 56+47 TO STA 59+12

SCALE: NTS

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION: REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

FLOODPLAIN TYPICAL SECTIONS

SCALE: NTS

VERIFY SCALES: 0 1"

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PROJECT NUMBER: 40174004

SHEET CODE: C-23

SHEET NUMBER: 41 OF 94

DOCUMENT NUMBER: BER_CY-C-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 03:38pm
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\C-23

GENERAL NOTES: (STRUCTURAL)

1. ALL CONSTRUCTION SHALL BE CARRIED OUT BY CALIFORNIA LICENSED CONTRACTOR(S). ALL CONSTRUCTION PROCEDURES SHALL CONFORM TO 'OSHA' STANDARDS AND ALL PREVAILING CODES AND REGULATIONS.
2. THE CONTRACT PLANS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE, DIRECT AND SUPERVISE ALL THE WORK AND SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES SEQUENCES AND PROCEDURES.
3. TYPICAL DETAILS AND NOTES ARE PROVIDED FOR GENERAL CONSTRUCTION CONDITIONS. THE DETAILS ARE SHOWN IN DIAGRAMMATIC FORM AND ARE NOT TO BE SCALED.
4. CONTRACTOR SHALL COORDINATE THESE PLANS WITH PLANS OF OTHER INVOLVED TRADES. CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND FIELD CONDITIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. ANY DISCREPANCY FOUND SHALL BE REPORTED TO THE ENGINEER FOR REMEDIES PRIOR TO FURTHER CONSTRUCTION IN RELATION TO THE DISCREPANCY. IN CASE OF PROVISIONAL DISCREPANCY, THE MORE STRINGENT OF THE TWO WOULD APPLY AT NO ADDITIONAL COST.
5. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR TEMPORARY SHORING OF THE TRENCHES, EXCAVATION PITS, EXISTING STRUCTURES TO REMAIN, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SELECTION, DESIGN, SAFE MAINTENANCE AND REMOVAL OF THE SHORING REQUIRED TO COMPLETE THE PROJECT. WHERE SHORING IS REQUIRED, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DULY DESIGNED, PREPARED AND WET SIGNED BY A CALIFORNIA LICENSED CIVIL/STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
6. UNLESS OTHERWISE NOTED, ALL CONSTRUCTION JOINTS SHALL BE ROUGHENED AT ENTIRE SURFACE TO 1/4" AMPLITUDE AND CLEANED PRIOR TO NEXT CONCRETE POUR.
7. FOR EXISTING AND FINAL GRADES AND WALL ELEVATION, SEE "CIVIL PLANS".
8. WHERE SAW CUTTING OF EXISTING STRUCTURE IS REQUIRED, DO NOT SAW CUT BEYOND THE CORNERS. REMOVE OR CHIP CONCRETE AT CORNERS FOR SQUARENESS. IF SAW CUTTING PROPAGATES BEYOND THE CORNER, CONTRACTOR SHALL SAW CUT, REMOVE CONCRETE AND REPAIR AS DIRECTED BY THE ENGINEER AT CONTRACTOR'S COST.
9. FOR WATER PROOFING, "ADEKA ULTRA SEAL MC-2010 MN – STRIP WATERSTOP" PRODUCTS ARE SHOWN FOR UNIFORM BIDS. CONTRACTOR MAY SUBSTITUTE THEM WITH EQUAL OR BETTER PRODUCT. IN CASE OF SUBSTITUTION, CONTRACTOR SHALL SUBMIT ALL DOCUMENTATION NECESSARY TO PROVE THE PRODUCT EQUAL OR BETTER AND SHALL SUBMIT COMBINED WARRANTY BY THE MANUFACTURER AND THE CONTRACTOR ASSURING FULL WATERTIGHTNESS.
10. INSTALLATION OF STRIP WATERSTOP SHALL BE CONTINUOUS AS SHOWN ON PLANS, SPECIFICATIONS AND AS PER PRODUCT MANUFACTURER'S RECOMMENDATIONS TO ENSURE FULL WATERTIGHTNESS.
11. UNLESS SHOWN OR NOTED ON THE PLANS, ALL JOINT FILLERS SHALL BE PRE-MOLDED ASPHALT IMPREGNATED JOINT FILLER MATERIAL, PRECUT PRECISELY FOR EACH LOCATION AND INSTALL AS SHOWN AND AS PER MANUFACTURER'S RECOMMENDATIONS.
12. REINFORCING BARS THUS (EC) MARKED SHALL BE EPOXY COATED AFTER FABRICATION AND SHALL BE INSTALLED AS AND WHERE SHOWN ON PLANS.
13. JOINT SEALANT SHALL BE INSTALLED CONTINUOUS AT THE JOINTS AT TOP AND AT BOTH FACES OF THE WALLS. CLEAN CONCRETE SURFACES AND INSTALL SEALANT AS LATE AS PRACTICAL, PRIOR TO COMPLETION OF THE PROJECT.
14. AT CONTRACTOR'S OPTION, THE SMOOTH GALVANIZED DOWELS MAY BE SUBSTITUTED BY SMOOTH STAINLESS STEEL DOWELS OF THE SAME SIZE.
15. BACKFILL ON BOTH SIDES OF WALLS/STRUCTURES SHALL BE CARRIED OUT SIMULTANEOUSLY IN MAXIMUM 8" LIFTS WITH LIFT DIFFERENCE NO LARGER THAN 8"; UNLESS OTHERWISE NOTED.
16. CONTRACTOR SHALL SUBMIT MANUFACTURER'S SPECIFICATIONS FOR BONDING MATERIAL AND PROCEDURES FOR INSTALLATION OF 'DRILL AND BOND' DOWELS FOR ENGINEER'S REVIEW, PRIOR TO CONSTRUCTION. BLOW CLEAN DRILLED HOLES AND INSTALL DOWELS & ANCHORS INTO BONDING MATERIAL PER SPECIFICATIONS DURING CONTINUOUS INSPECTION OF INDEPENDENT SPECIAL INSPECTOR. 'SPECIAL INSPECTOR', AS DEFINED IN 1997 UNIFORM BUILDING CODE, SECTION 1701, SHALL BE RETAINED BY THE SANTA CLARA VALLEY WATER DISTRICT. THE SPECIAL INSPECTOR SHALL SUBMIT REPORTS TO THE WATER DISTRICT AND THE ENGINEER.
17. CONTRACTOR SHALL BE RESPONSIBLE TO SCHEDULE ALL INSPECTIONS AND TESTING PER SPECIFICATIONS AND INDIVIDUAL AGENCY'S REQUIREMENTS IN TIMELY MANNER.
18. EXCAVATE NEATLY AND CONSTRUCT GRADE BEAM OVER UNDISTURBED NATURAL SOIL. ANY OVEREXCAVATION SHALL BE BACKFILLED AND COMPACTED TO 95% COMPACTION PRIOR TO CONSTRUCTION OF THE GRADE BEAM.

DESIGN CRITERIA

1. UNIT STRESS FOR REINFORCED CONCRETE
   a. CONCRETE: $f_c' = 4{,}000$ psi (UON)
   b. REINFORCING STEEL: $f_y = 60{,}000$ psi (UON)

DEVELOPMENT AND SPLICE LENGTH

1. IN TENSION

CLEAR SPACING> $2d_b$, AND

CONCRETE CLEAR COVER> d_b

d_b : NORMINAL BAR DIAMETER (INCHES)

L_d : TENSION DEVELOPMENT LENGTH (INCHES)

L_T : DEVELOPMENT LENGTH OF TOP BARS IN TENSION (INCHES) $L_T = 1.3L_d$

L_{SB} : TENSION LAP SPLICE LENGTH FOR OTHER THAN TOP BARS (INCHES) $L_{SB} = 1.3L_d$

L_{SBT} : TENSION LAP SPLICE LENGTH FOR TOP BARS (INCHES) $L_{SBT} = 1.69L_d$

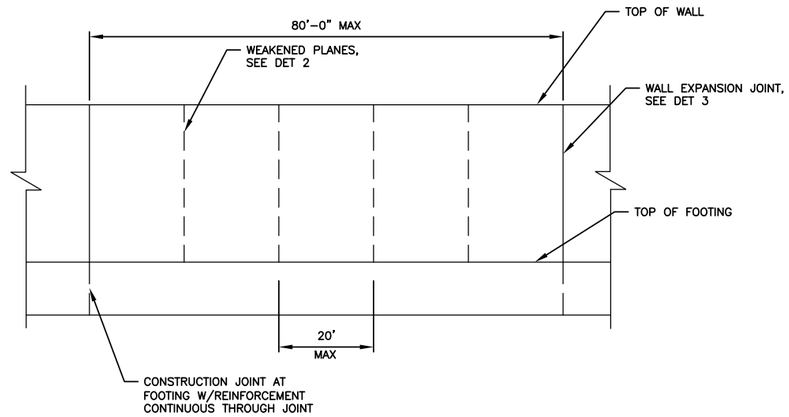
X	fc'=3000 psi				fc'=4000 psi			
BAR SIZE	L_D	L_T	L_{SB}	L_{SBT}	L_D	L_T	L_{SB}	L_{SBT}
3	17	23	23	30	15	20	20	26
4	22	29	29	38	19	25	25	33
5	28	37	37	49	24	32	32	42
6	33	43	43	56	29	38	38	50
7	48	63	63	82	42	55	55	72
8	55	72	72	94	48	63	63	82

2. IN COMPRESSION

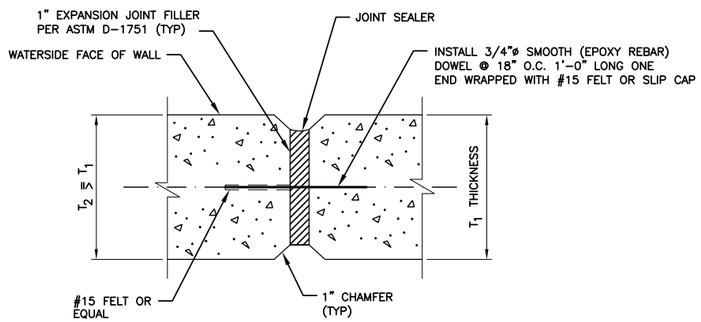
L_{DC} : DEVELOPMENT LENGTH OF BARS OR DOWELS IN COMPRESSION (INCHES)

L_C : LAP SPLICE LENGTH IN COMPRESSION (INCHES)

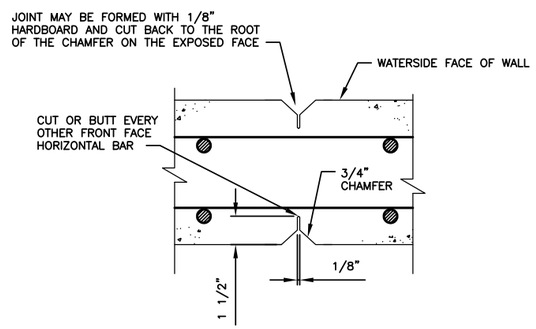
BAR SIZE	Lc	Ldc	
		fc'=3000 psi	fc'=4000 psi
3	11	8.2	8**
4	15	11	9.5
5	19	13.7	11.9
6	23	16.4	14.2
7	26	19.2	16.6
8	30	21.9	19



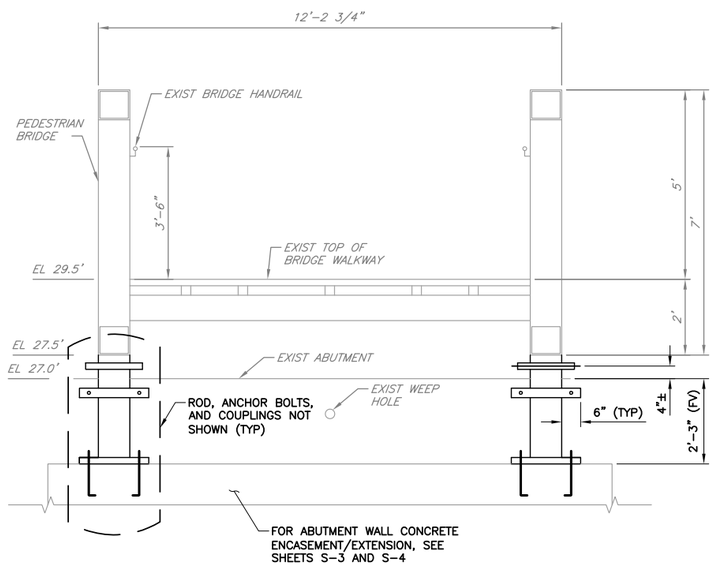
DETAIL 1 – WALL EXPANSION JOINTS AND WEAKENED PLANES
SCALE: NOT TO SCALE



DETAIL 2 – WEAKENED PLANE
SCALE: NOT TO SCALE



DETAIL 3 – WALL EXPANSION JOINT
SCALE: 1/4" = 1'-0"



TYPICAL SECTION A – PEDESTRIAN BRIDGE AT ABUTMENT
SCALE: 1/2" = 1'-0"

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

DATE FEB 2011
DESIGN M.T. NGUYEN
DRAWN L. PENILLA
CHECKED T. NDAH

ENGINEERING CERTIFICATION
PROJECT ENGINEER DATE

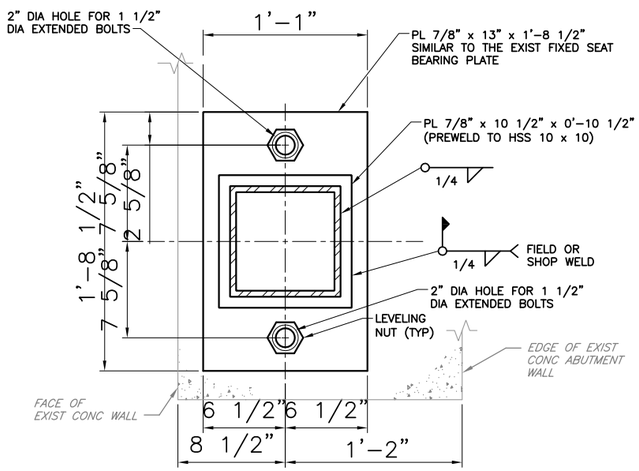
Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
PEDESTRIAN BRIDGE DETAILS AND SECTION

SCALE: AS SHOWN
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

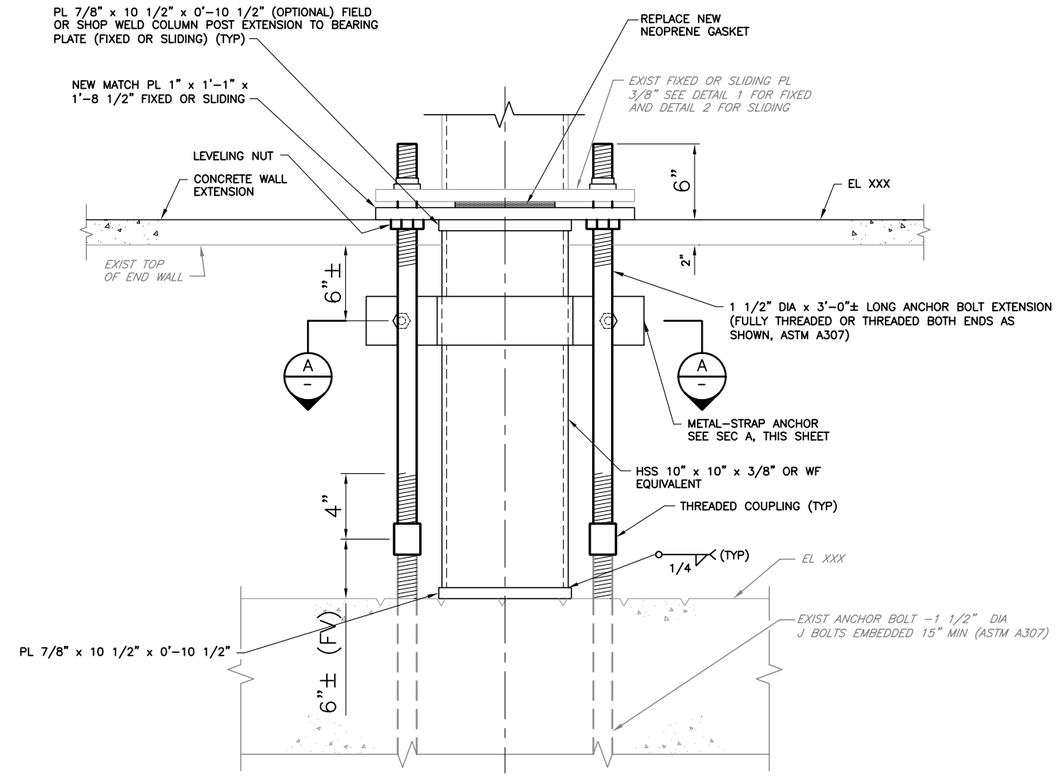
PROJECT NUMBER: 40174004
SHEET CODE: S-1
SHEET NUMBER: 42 OF 94

USERNAME: JENNFORD Tue 22 Feb 2011 08:32am
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\S-01
DOCUMENT NUMBER: XXXX-X-0000-0000000.00



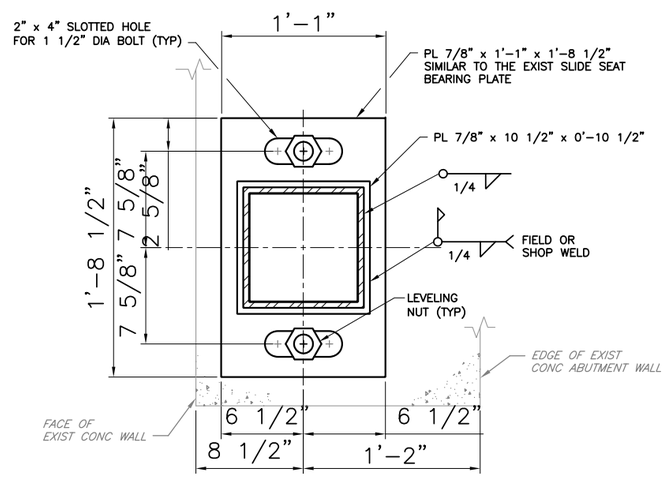
DETAIL 1 — NEW FIXED SEAT BEARING (2 REQUIRED)

SCALE: 1" = 2'-0"



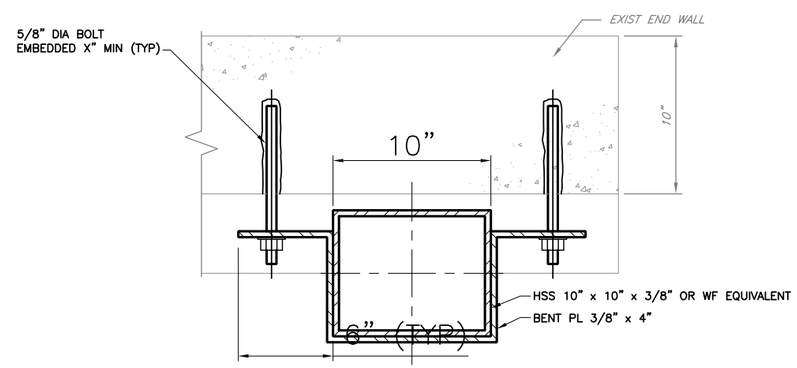
DETAIL 3 — POST EXTENSION BOLSTER FIXED OR SLIDING SEATING

SCALE: 1" = 2'-0"



DETAIL 2 — SLIDE SEAT BEARING (2 REQUIRED)

SCALE: 1" = 2'-0"



SECTION A — METAL – STRAP ANCHOR

NOT TO SCALE

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

DATE: FEB 2011
DESIGN: X.X.X.
DRAWN: R. AGREDA, L. PENILLA
CHECKED: X.X.X.

ENGINEERING CERTIFICATION
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

BRIDGE POST EXTENSION DETAILS AND SECTION

SCALE: AS SHOWN
VERIFY SCALES: 0 — 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: S-2
SHEET NUMBER: 43 OF 94

USERNAME: JENNFORD Tue 22 Feb 2011 08:34am
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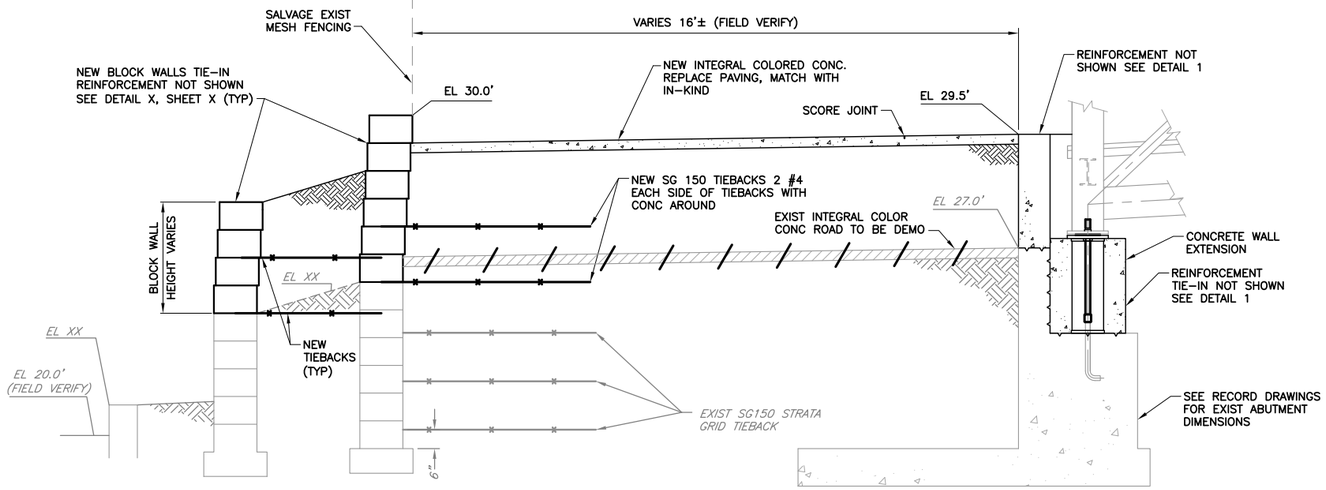
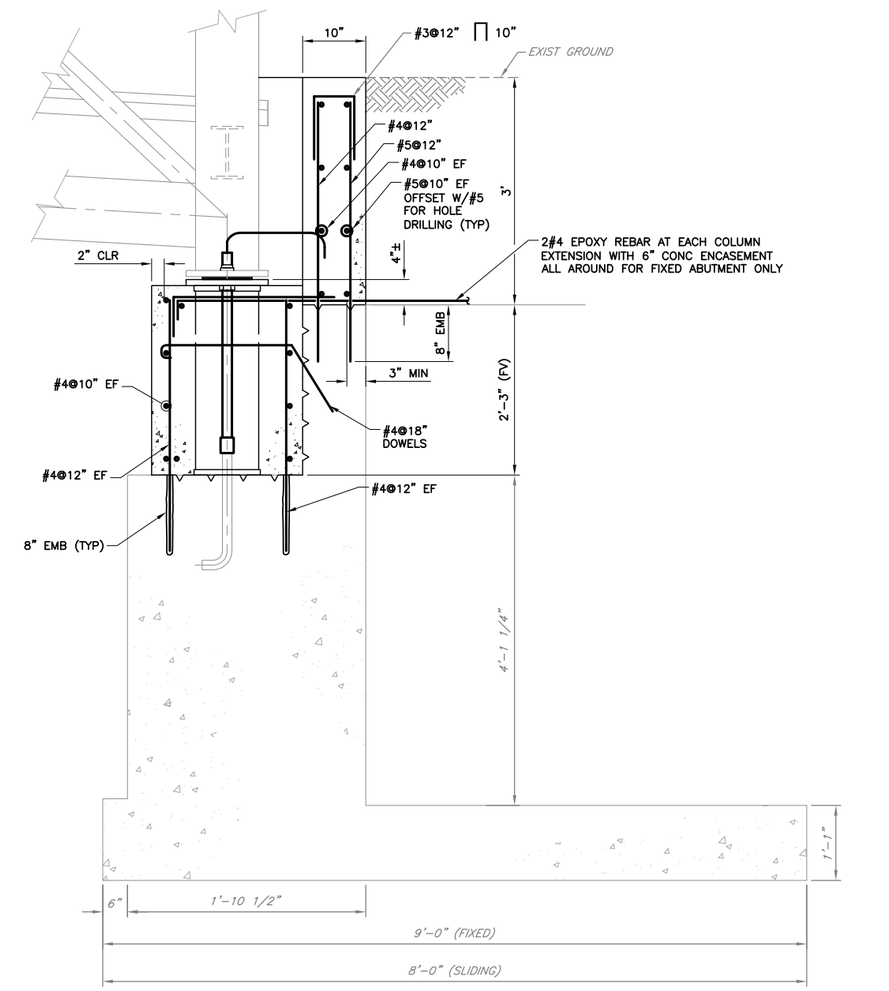


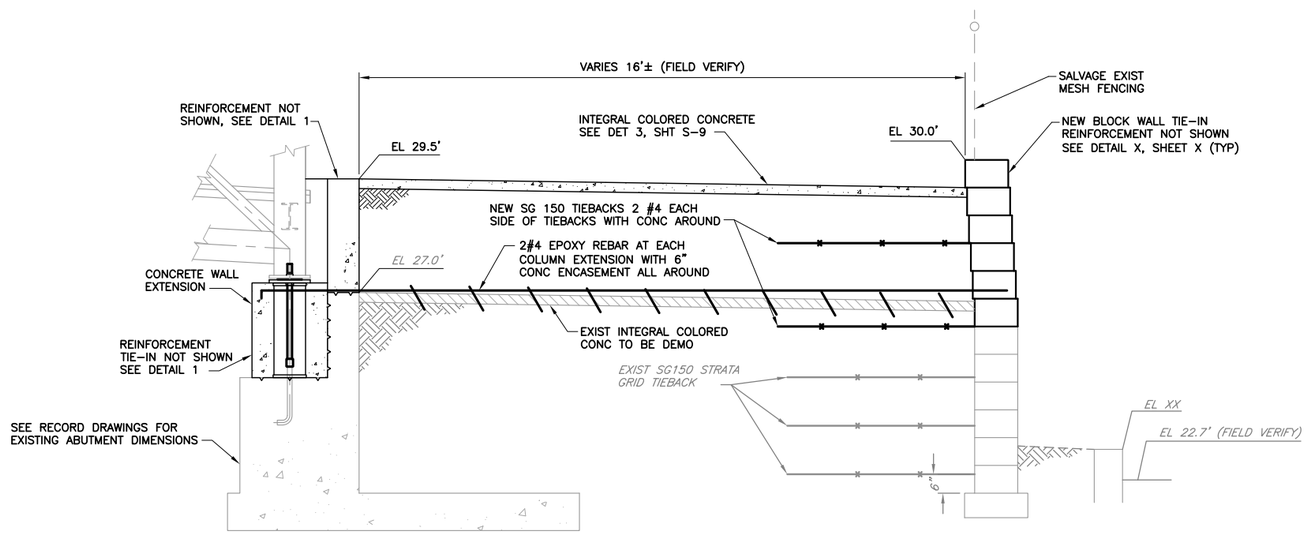
SECTION A/– SOUTH END SLIDING ABUTMENT OF PEDESTRIAN BRIDGE

SCALE: 1" = 2'-0"



DETAIL 1/– BRIDGE ABUTMENT FOUNDATION AFTER INSTALLATION

SCALE: 1" = 1'-0"



SECTION B/– NORTH END FIXED ABUTMENT OF PEDESTRIAN BRIDGE

SCALE: 1" = 2'-0"

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION		PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
	60% PRELIMINARY 02-07-11				FEB 2011		Santa Clara Valley Water District	LOWER BERRYESSA CREEK PROJECT	AS SHOWN	40174004
					DESIGN X.X.X.			BRIDGE ABUTMENT SECTIONS AND DETAIL	VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-3
					DRAWN R. AGREDA L. PENILLA					SHEET NUMBER: 44 OF 94
					CHECKED X.X.X.	PROJECT ENGINEER DATE				

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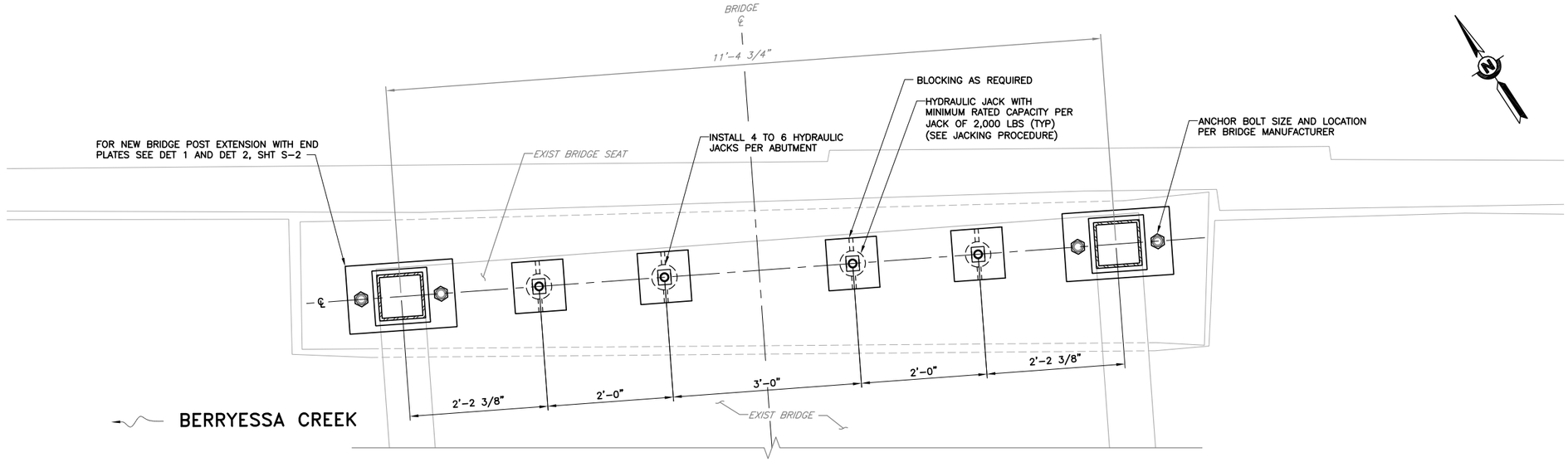
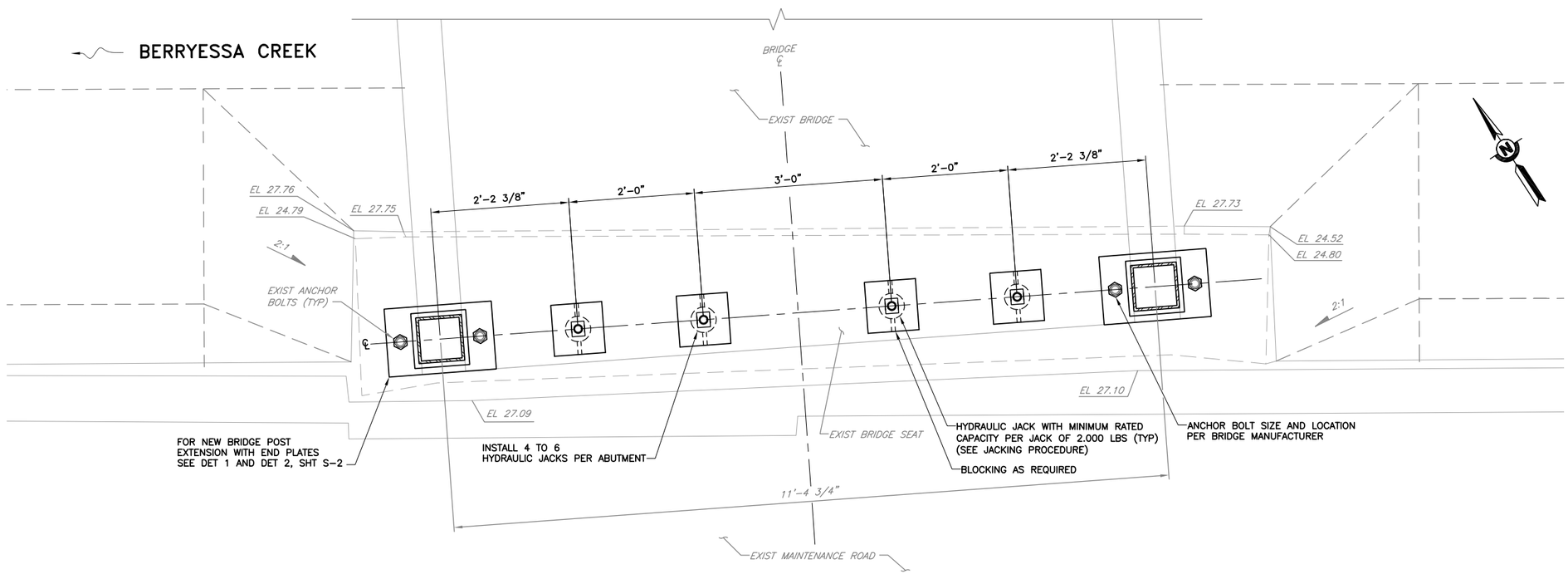
DOCUMENT NUMBER: BER_CY-S-4017-XXXXX



DETAIL 1 / – NORTH END BRIDGE FIXED ABUTMENT PLAN

SCALE: 1" = 1'-0"



DETAIL 2 / – SOUTH END SLIDING BRIDGE ABUTMENT PLAN

SCALE: 1" = 1'-0"

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-07-11			

DATE	ENGINEERING CERTIFICATION
FEB 2011	
DESIGN X.X.X.	
DRAWN R. AGREDA L. PENILLA	
CHECKED X.X.X.	PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

BRIDGE ABUTMENT PLAN

SCALE	PROJECT NUMBER
AS SHOWN	40174004
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-4
	SHEET NUMBER: 45 OF 94

DOCUMENT NUMBER: BER_CY-S-4017-XXXXX

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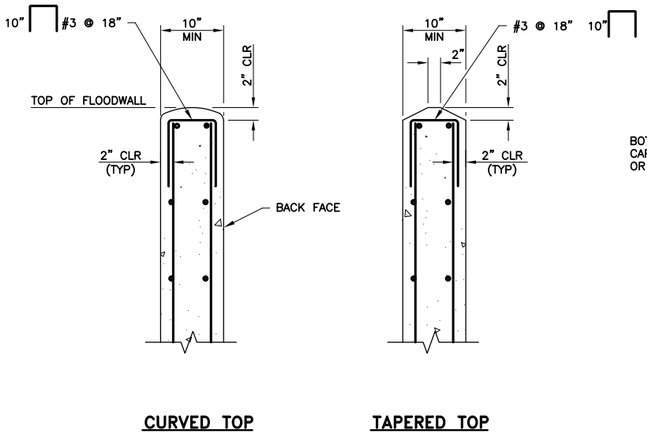
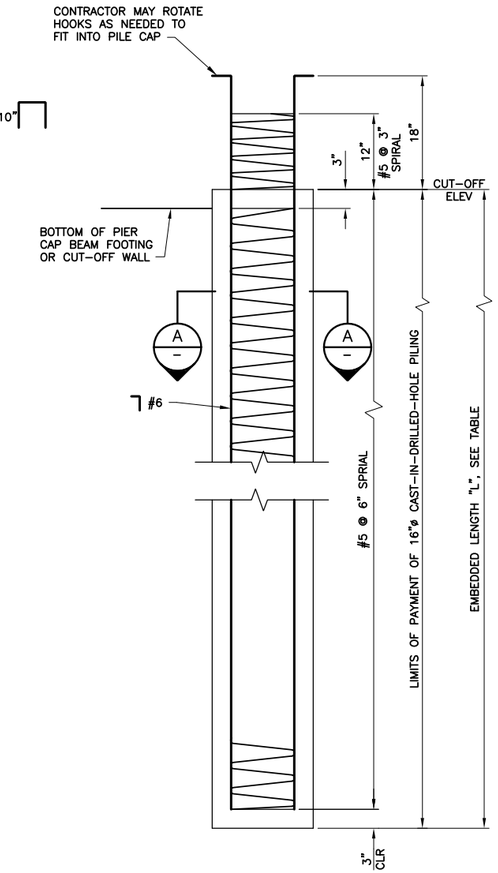


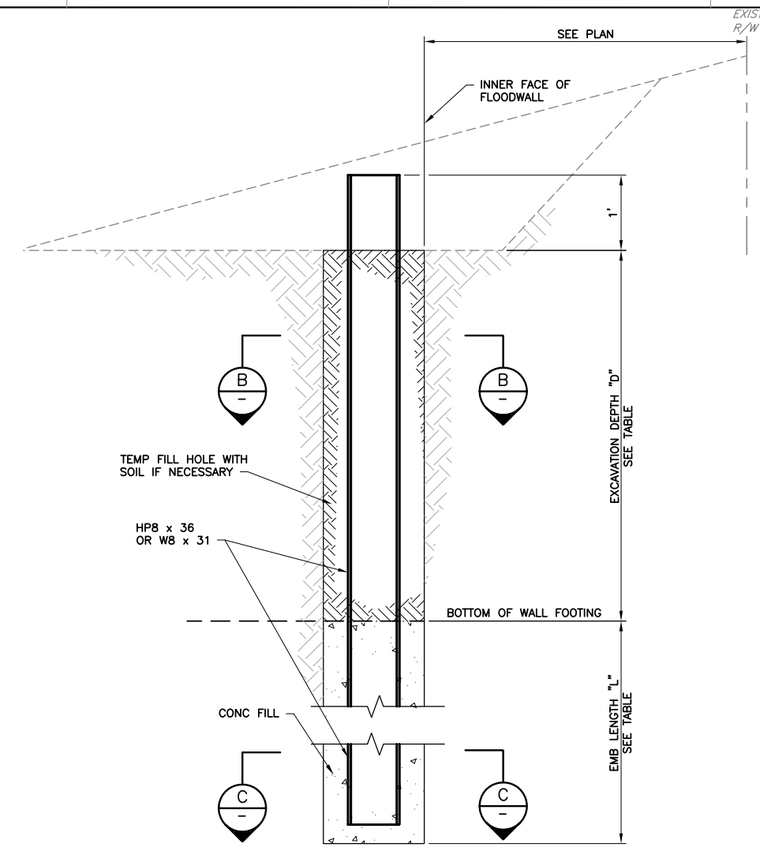
DETAIL 1 – TYPICAL TOP OF WALL

SCALE: 1" = 1'-0"



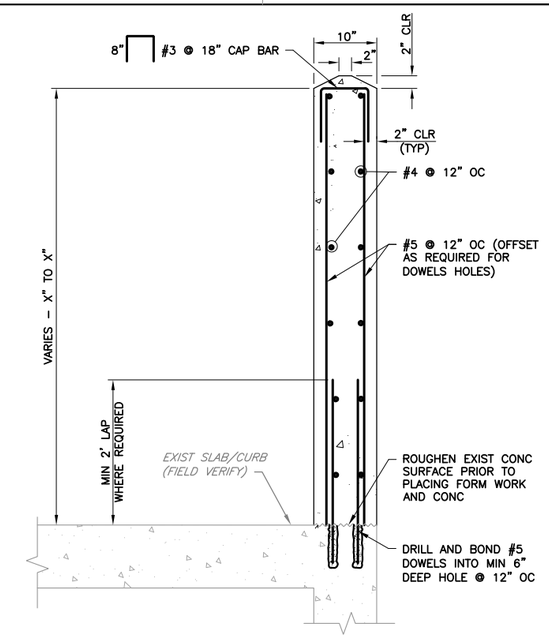
DETAIL 3 – TYPICAL 16"ø CIDH PILE

SCALE: 1" = 1'-0'



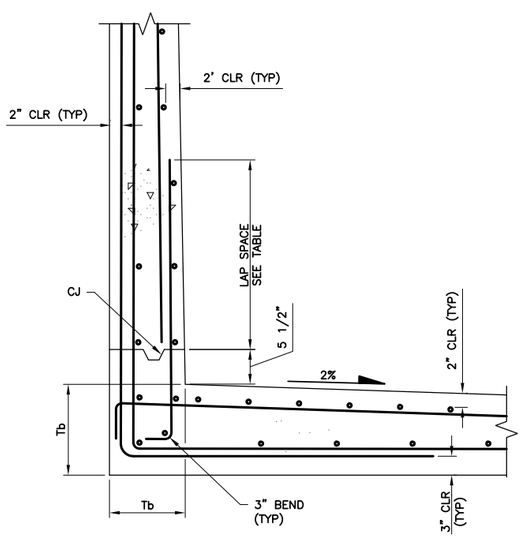
DETAIL 4 – TYPICAL 16"ø CIDH AND SOLDIER PILE TEMPORARY/PERMANENT SHORING

SCALE: 1" = 1'-0"



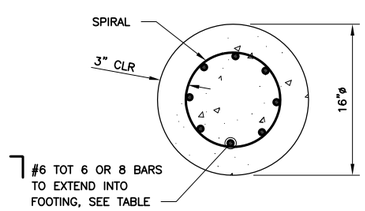
DETAIL 5 – TYPICAL CONCRETE FLOODWALL EXTENSION

SCALE: 1" = 1'-0"



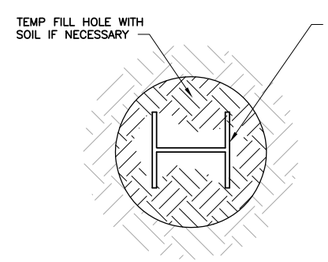
DETAIL 2 – CONSTRUCTION JOINT BOTTOM WALL AND FOOTING

SCALE: 1" = 1'-0"



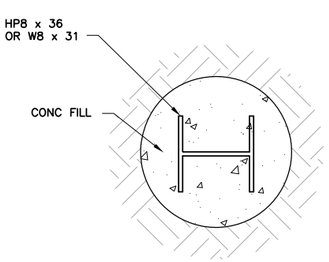
SECTION A – CIDH PILE

SCALE: 1 1/2" = 1'-0"



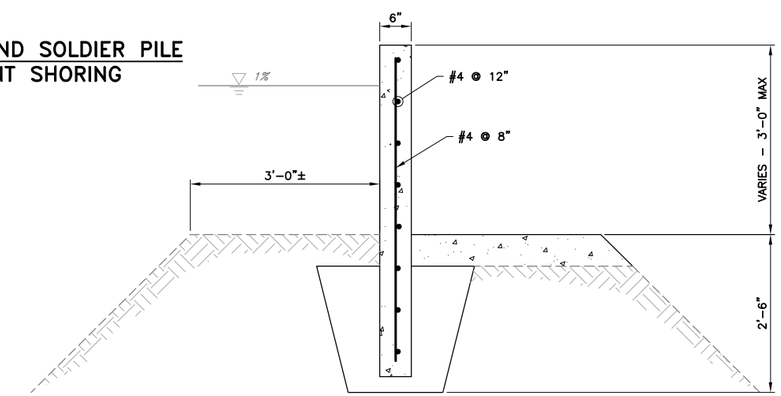
SECTION B

SCALE: 1 1/2" = 1'-0"



SECTION C

SCALE: 1 1/2" = 1'-0"



DETAIL 6 – TYPICAL FLASHBOARD FLOODWALL OR VINYL SHEET

SCALE: NOT TO SCALE

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

DATE: FEB 2011
DESIGN: M.T. NGUYEN
DRAWN: D.BETTENDORF
CHECKED: T. NDAH

ENGINEERING CERTIFICATION

PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

FLOODWALL DETAILS AND SECTION

SCALE: AS SHOWN

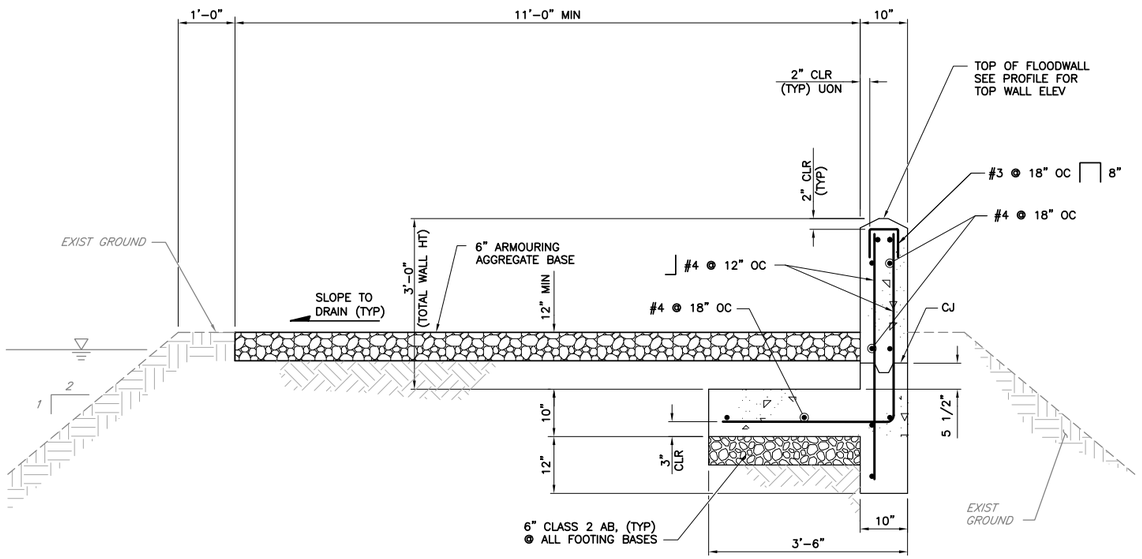
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004

SHEET CODE: S-5

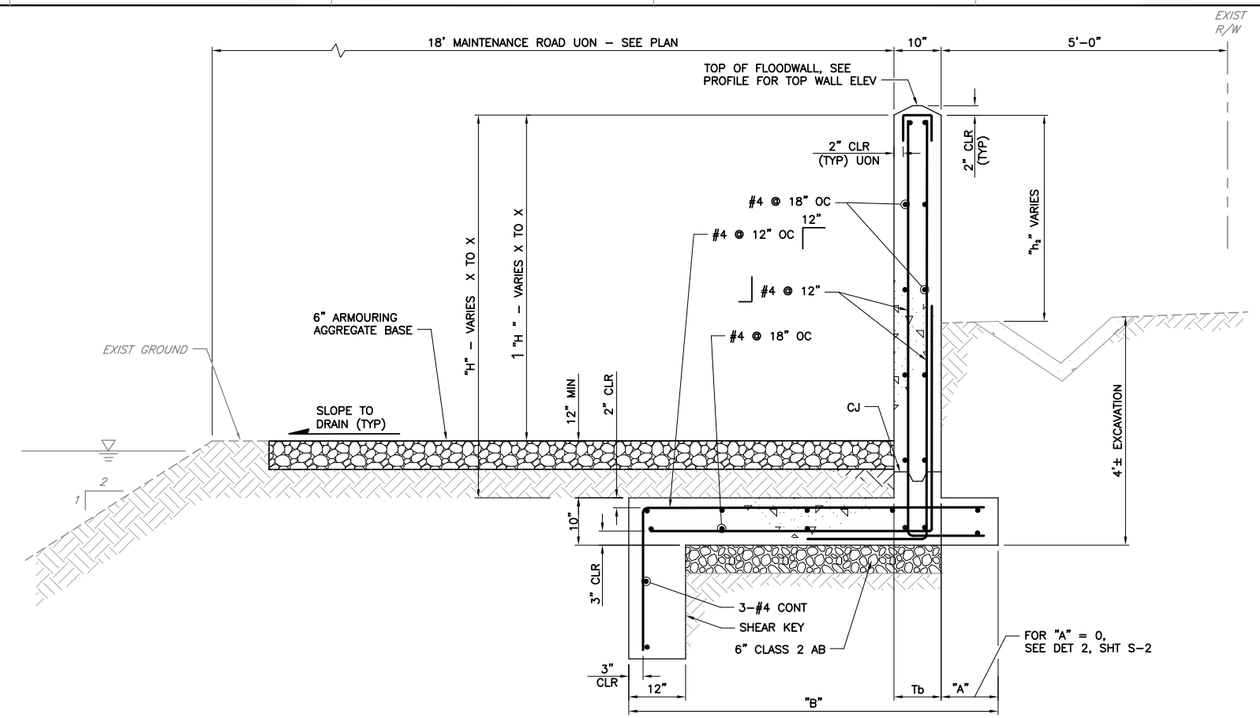
SHEET NUMBER: 46 OF 94

USERNAME: JENNFORD Tue 22 Feb 2011 08:39am
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\S-05
DOCUMENT NUMBER: XXXX-X-0000-0000000.00



DETAIL 1 — TYPE 1 FLOODWALL

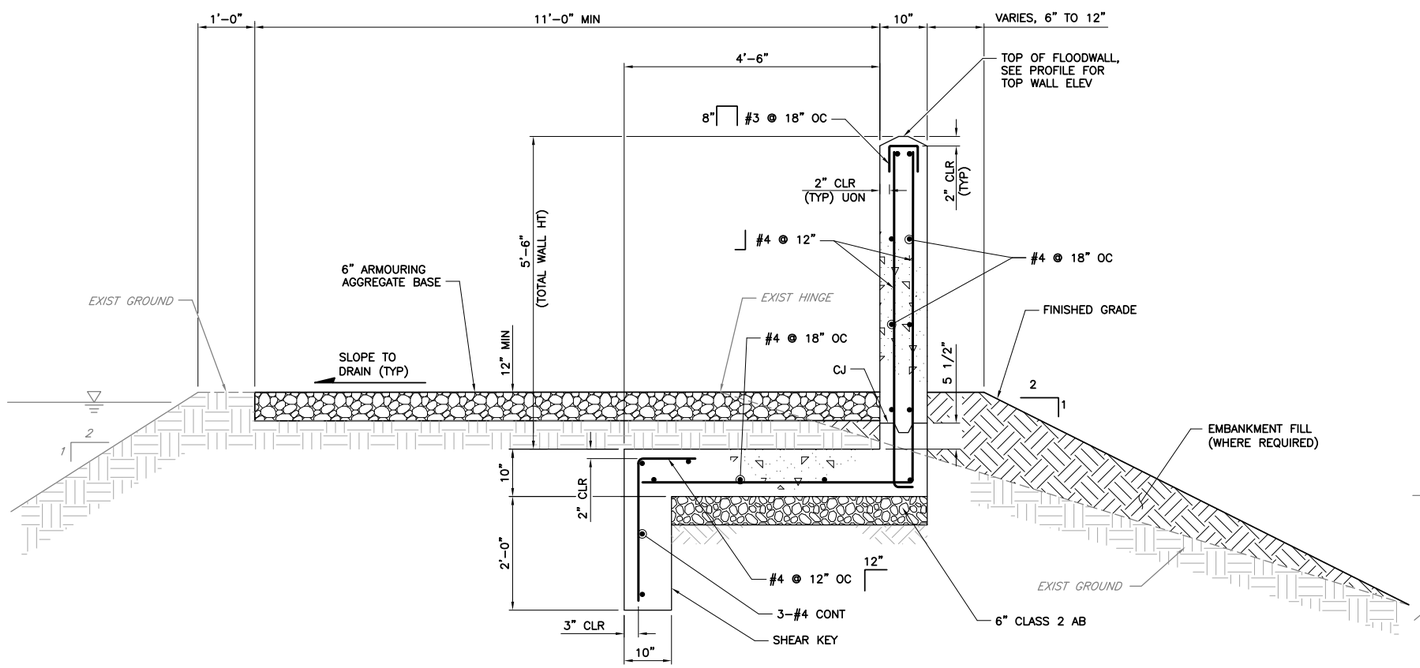
SCALE: 3/4" = 1'-0"



DETAIL 3 — TYPE 3 FLOODWALL

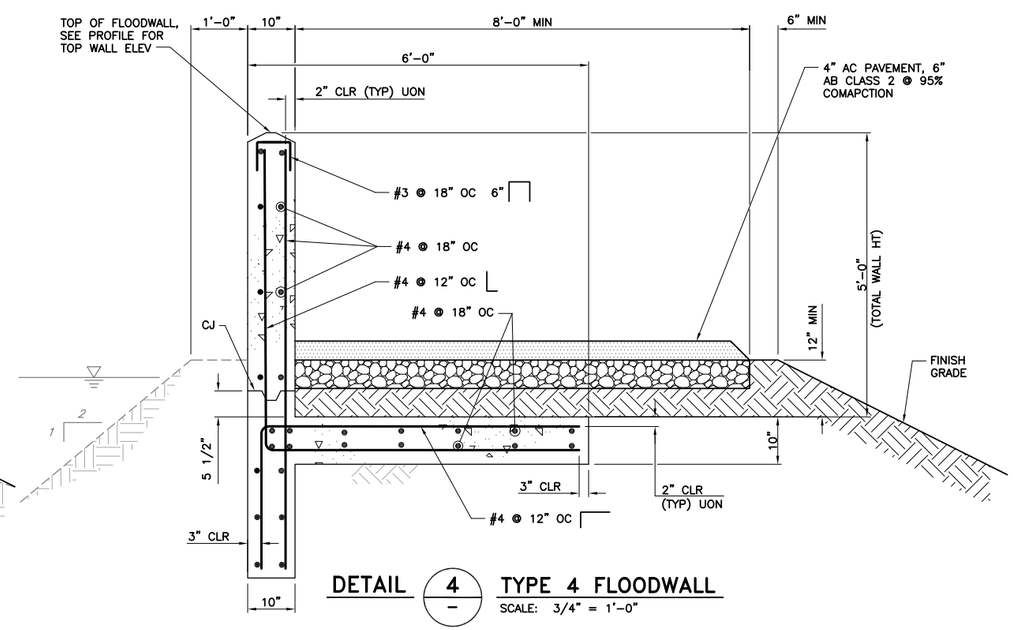
SEE TABLE 3

SCALE: NOT TO SCALE



DETAIL 2 — TYPE 2 FLOODWALL

SCALE: 3/4" = 1'-0"



DETAIL 4 — TYPE 4 FLOODWALL

SCALE: 3/4" = 1'-0"

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

DATE	FEB 2011
DESIGN	M.T. NGUYEN
DRAWN	D.BETTENDORF
CHECKED	T. NDAH

ENGINEERING CERTIFICATION

PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

FLOODWALL DETAILS

SCALE: AS SHOWN

VERIFY SCALES: 0 — 1"

BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004

SHEET CODE: S-6

SHEET NUMBER: 47 OF 94

DOCUMENT NUMBER: XXXX-X-0000-0000000.00

USERNAME: JENNFORD Tue 22 Feb 2011 08:40am
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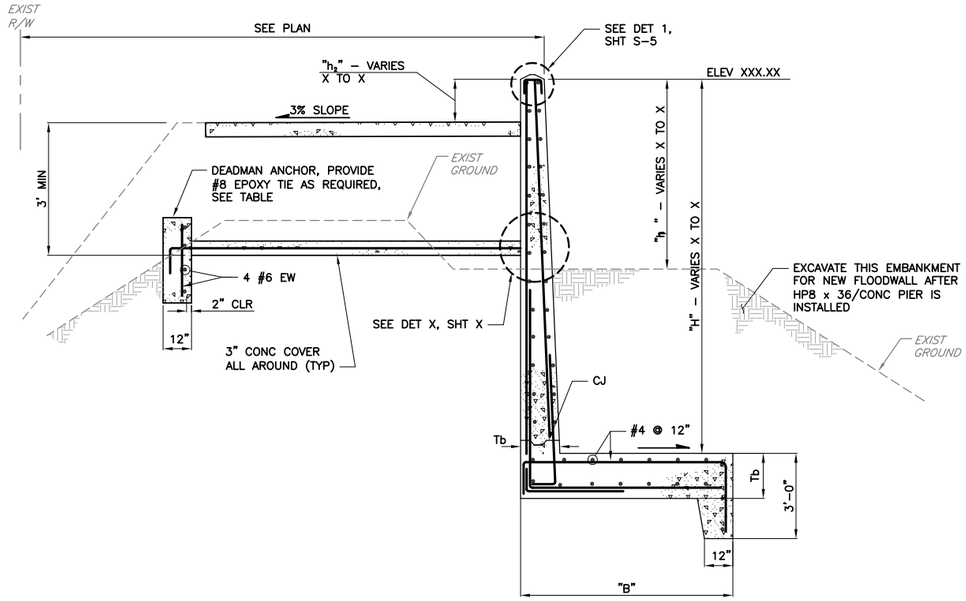
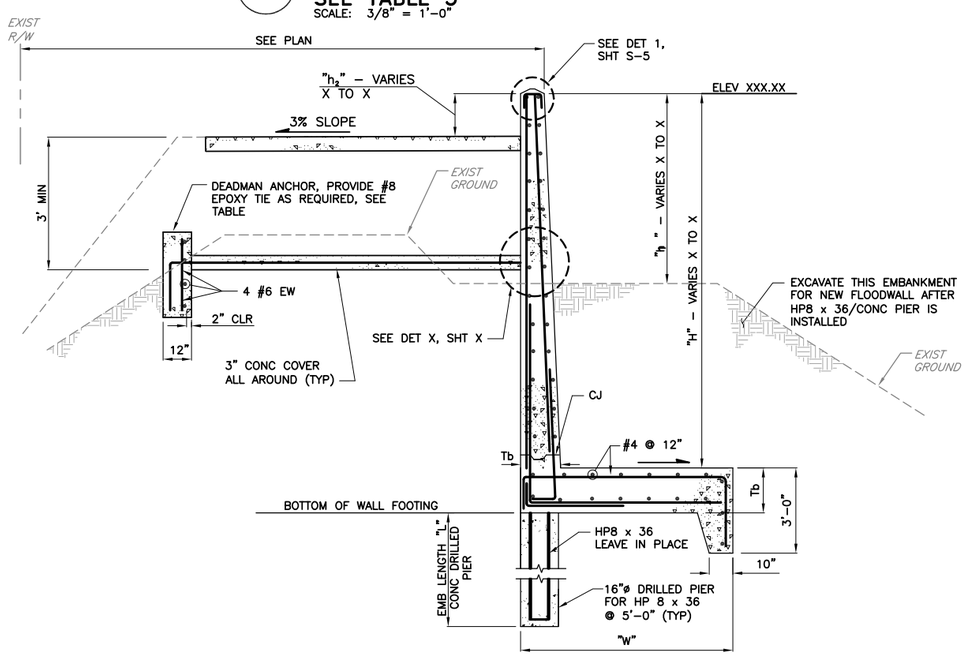


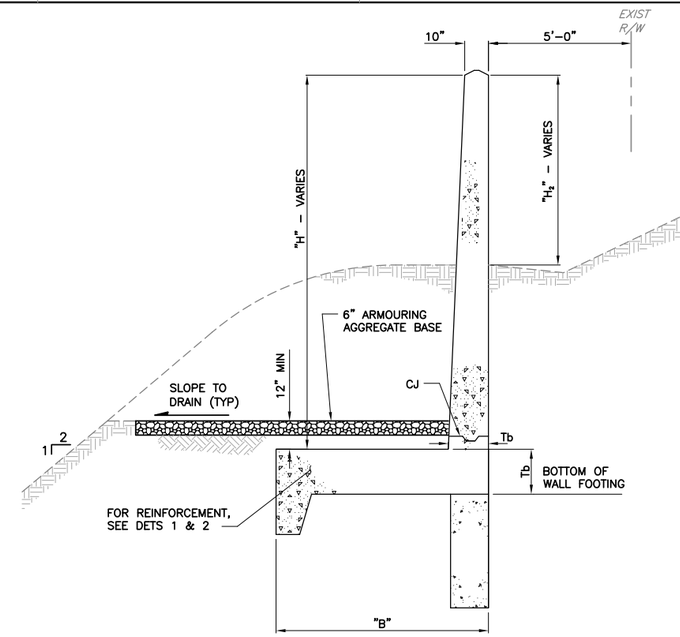
DETAIL 1 – TYPICAL TYPE 5 FLOODWALL SEE TABLE 5

SCALE: 3/8" = 1'-0"



DETAIL 2 – TYPICAL 5A FLOODWALL/SOLDIER PILE WITH OR WITHOUT DEADMAN TIE SEE TABLE 5A

SCALE: 3/8" = 1'-0"

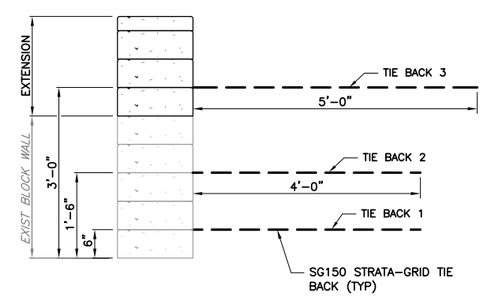


DETAIL 3 – TYPICAL 5 OR 5A FLOODWALL WITHOUT TIE BACK SEE TABLE 7

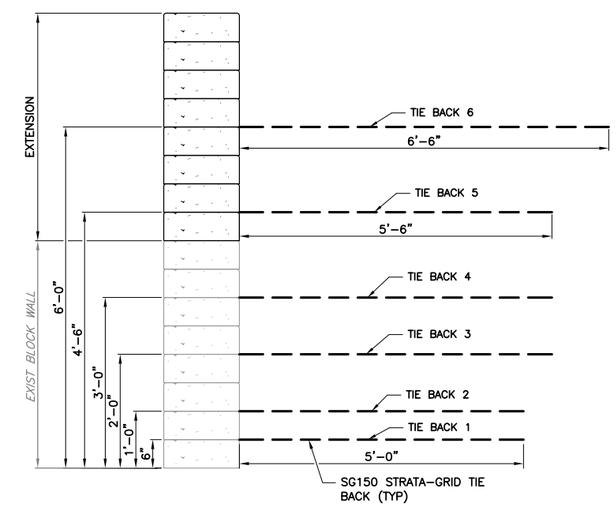
SCALE: 3/8" = 1'-0"

LOWER BERRYESSA BLOCK WALL EXTENSION NOTES:

1. STANDARD BLOCKS ARE 16" WIDE x 6" HIGH "COUNTRY MANOR" TYPE MODULAR BLOCKS AS MANUFACTURED BY KEYSTONE, OR EQUAL. THEY SHOULD MATCH WITH THE EXISTING BLOCK UNITS.
2. BLOCK WALL EXTENSION INSTALLATIONS SHALL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, EXCEPT COMPACTED FILL SHALL BE COMPACTED TO MINIMIZE THE INFILTRATION POTENTIAL.
3. BLOCK WALL EXTENSIONS VARY FROM 1 TO 4 FEET. FOR LOCATIONS AND ELEVATIONS, SEE PLANS AND PROFILES.
4. BLOCK WALL EXTENSIONS SHALL BE REINFORCED WITH ONE OR TWO TIE BACKS USING "SG150 STRATA-GRID" TIE BACK OR APPROVED EQUAL.



1' TO 2' EXTENSION WITH ONE TIE BACK



3' TO 4' EXTENSION WITH TWO TIE BACKS

DETAIL 4 – TYPICAL BLOCKS EXTENSION

SCALE: 3/4" = 1'0"

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES

DATE: FEB 2011
DESIGN: M.T. NGUYEN
DRAWN: D.BETTENDORF
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
FLOODWALL DETAILS

SCALE: AS SHOWN
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: S-7
SHEET NUMBER: 48 OF 94

USERNAME: JENNFORD Tue 22 Feb 2011 08:41am
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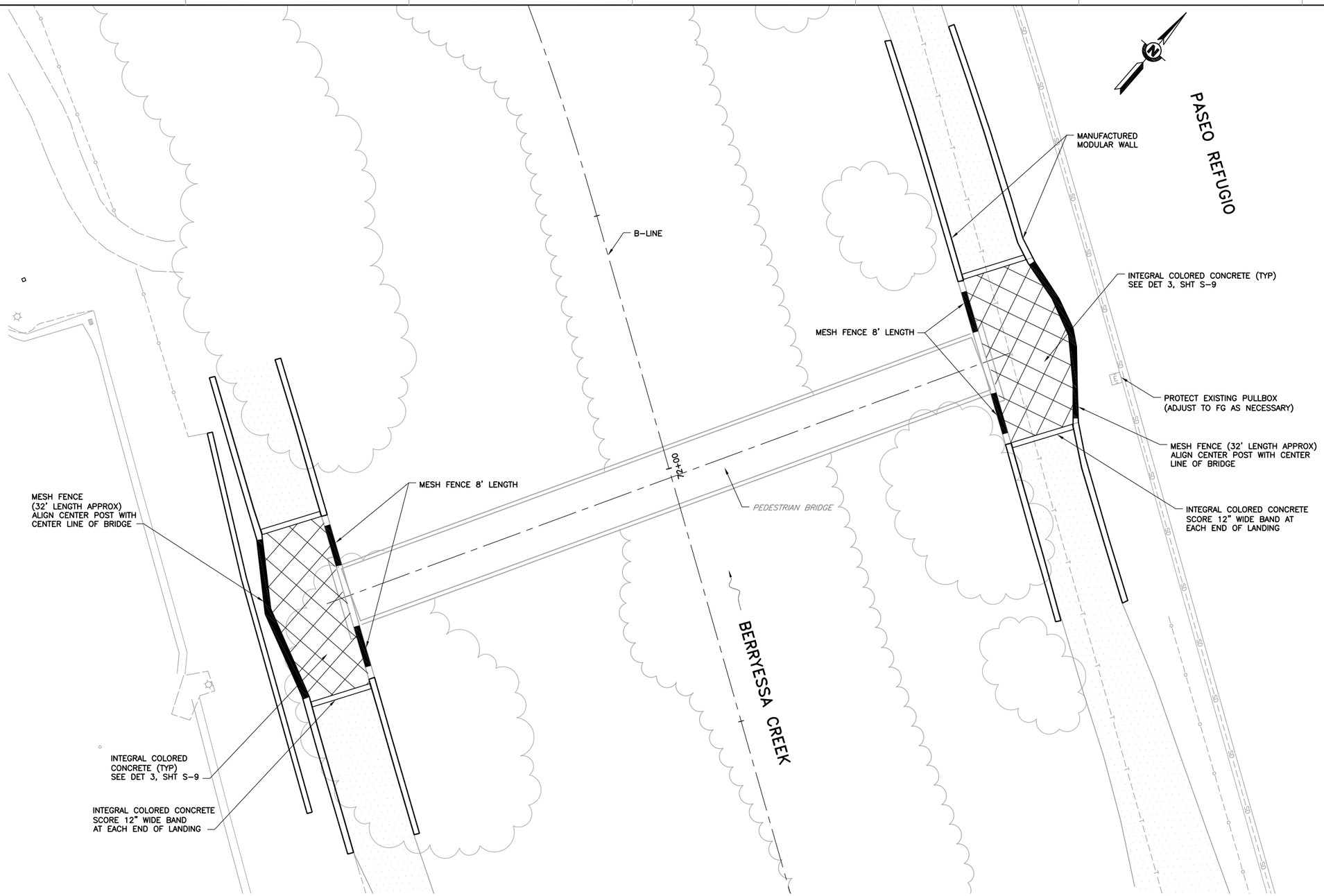
DOCUMENT NUMBER: XXXX-X-0000-0000000.00



DETAIL 1 PEDESTRIAN BRIDGE PLAN
1" = 10'

USERNAME: JENNFORD Tue 22 Feb 2011 08:43am
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\S-08

DOCUMENT NUMBER: BER_CY-S-4017-XXXXX

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-07-11			

DATE	ENGINEERING CERTIFICATION
FEB 2011	
DESIGN X.X.X.	
DRAWN J. FORD	
CHECKED X.X.X.	PROJECT ENGINEER DATE

Santa Clara Valley Water District

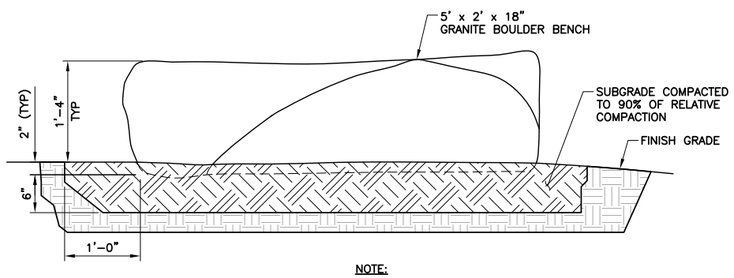
PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

PEDESTRIAN BRIDGE PLAN DETAIL

SCALE	PROJECT NUMBER
AS SHOWN	40174004
VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-8
	SHEET NUMBER: 49 OF 94

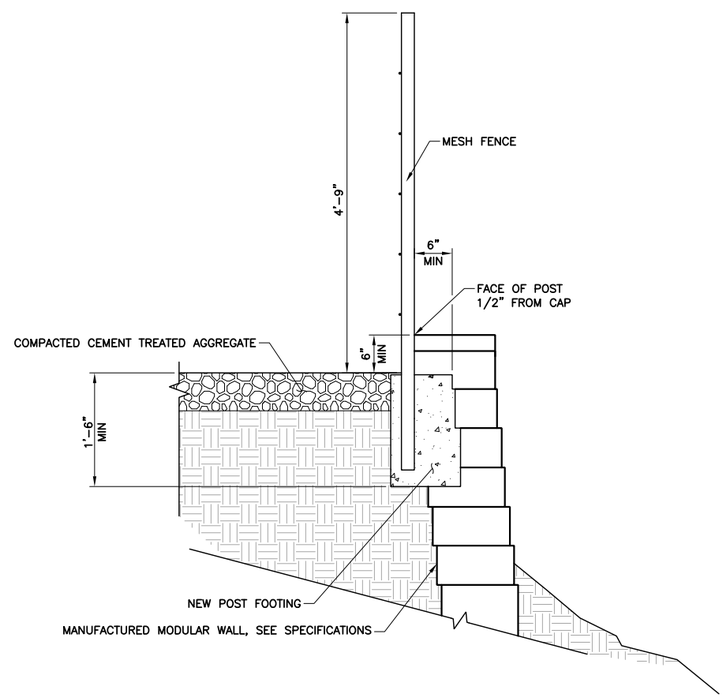
USERNAME: JENNFORD Tue 22 Feb 2011 08:45am
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\S-09



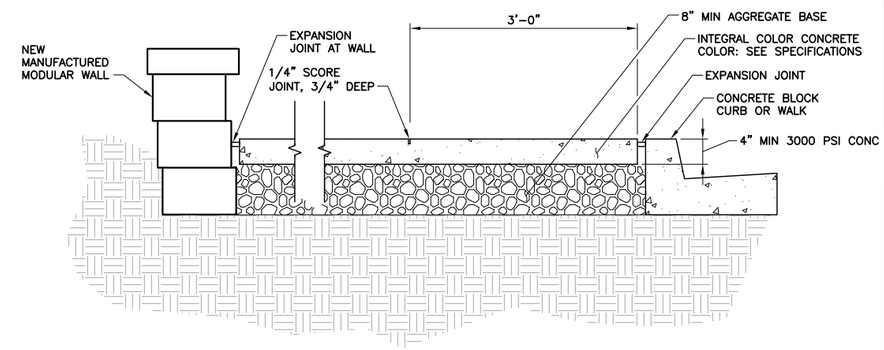
NOTE:

1. EACH BENCH COATED WITH CITY APPLIED ANTI GRAFFITI

DETAIL 1 — GRANITE BENCH
SCALE: 1" = 1'-0"



DETAIL 2 — WALL AND MESH FENCE
SCALE: 1" = 1'-0"



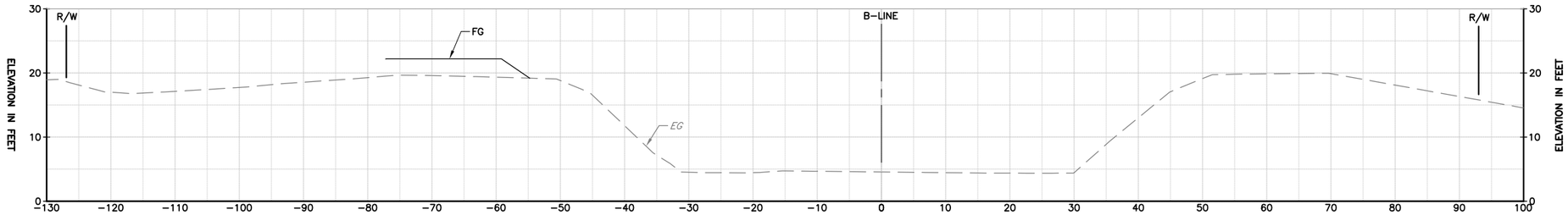
NOTE:

1. SCORE 3' x 3' GRID ON THE DIAGONAL STARTING AT CENTERLINE OF BRIDGE. INSTALL EXPANSION JOINTS AT WALL AND BRIDGE ABUTMENT.

DETAIL 3 — INTEGRAL COLOR CONCRETE
SCALE: 1" = 1'-0"

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES	DATE	ENGINEERING CERTIFICATION		PROJECT NAME AND SHEET DESCRIPTION:	SCALE	PROJECT NUMBER
	60% PRELIMINARY 02-07-11				FEB 2011		Santa Clara Valley Water District	LOWER BERRYESSA CREEK PROJECT	AS SHOWN	40174004
					DESIGN X.X.X.				VERIFY SCALES 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET CODE: S-9
					DRAWN J. FORD			PEDESTRIAN BRIDGE DETAILS		
					CHECKED X.X.X.	PROJECT ENGINEER DATE				SHEET NUMBER: 50 OF 94

DOCUMENT NUMBER: BER_CY-S-4017-XXXXX



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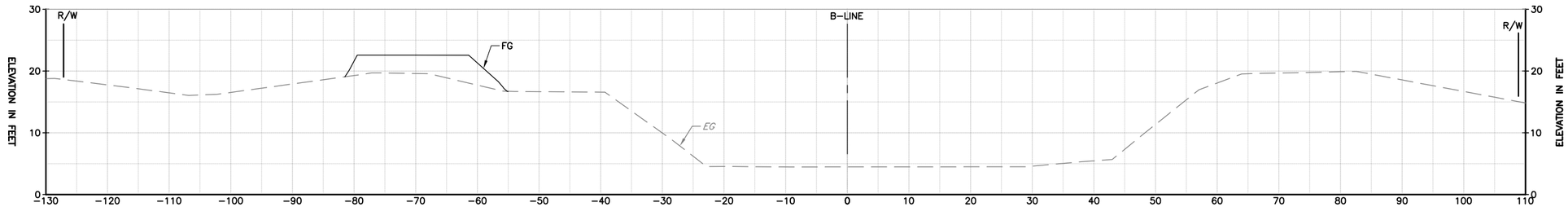

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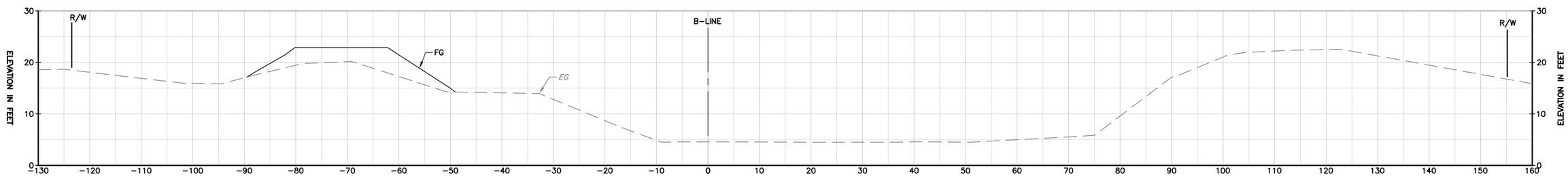

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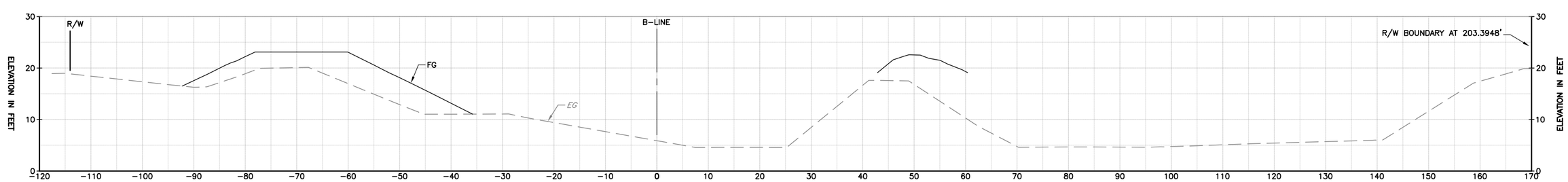

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ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-1
SHEET NUMBER: 51 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 08:48am
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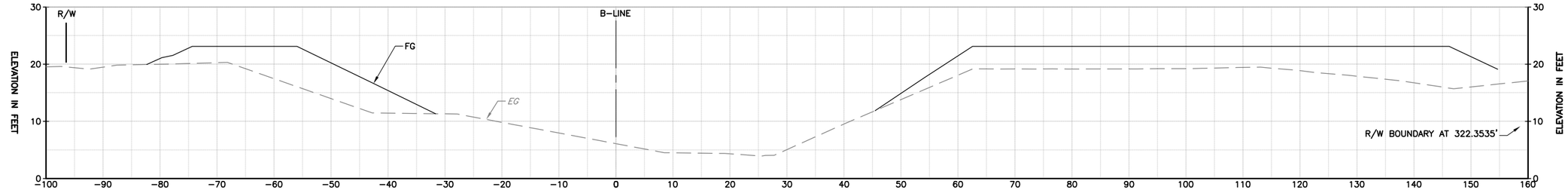

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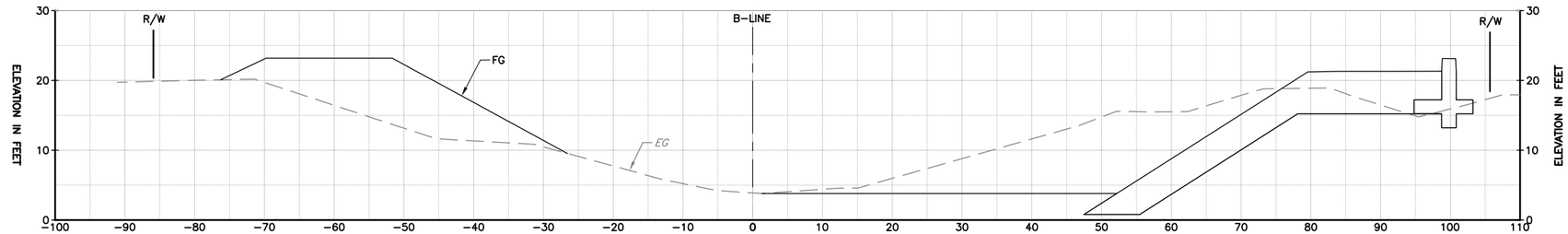

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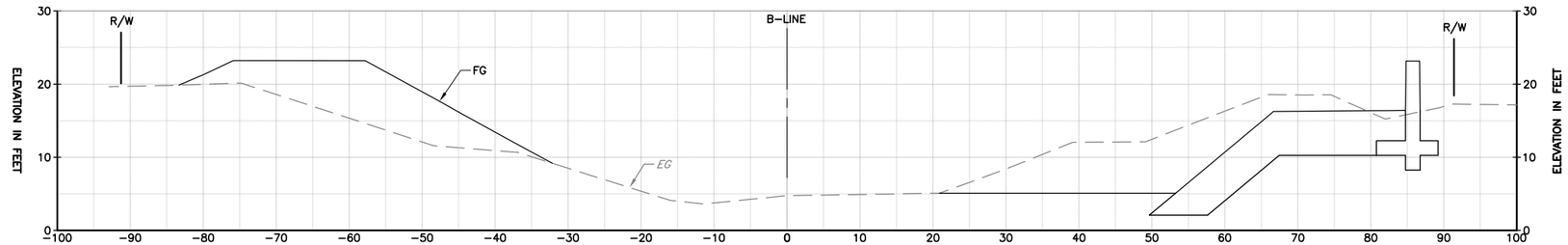

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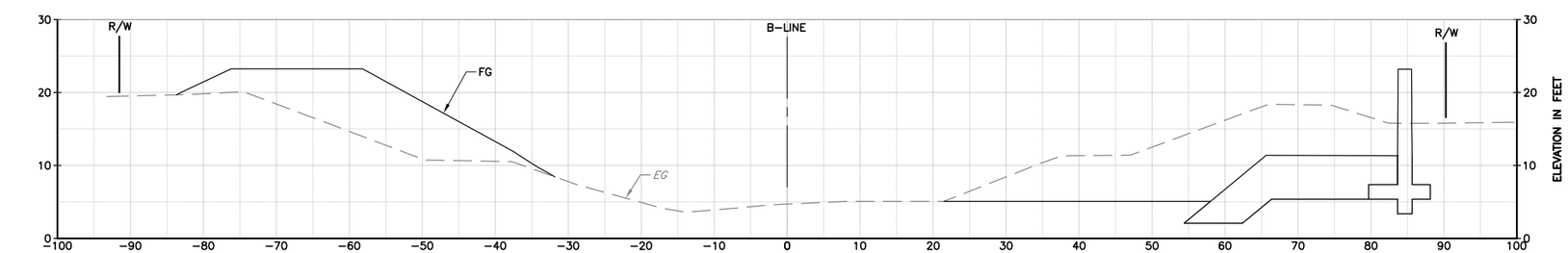

STA 3+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE H: 1"=10' V: 1"=10'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: X-2
SHEET NUMBER: 52 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

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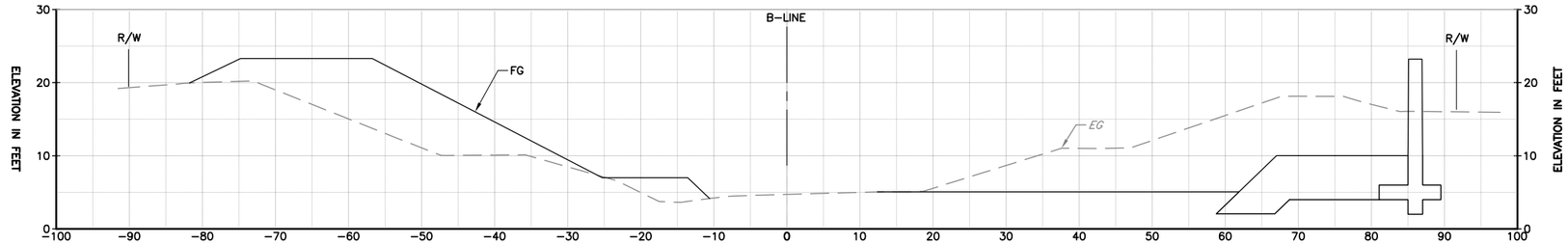

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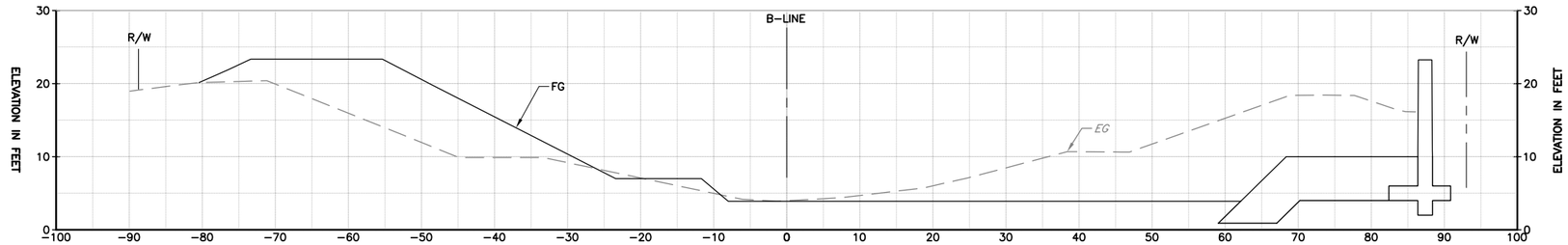

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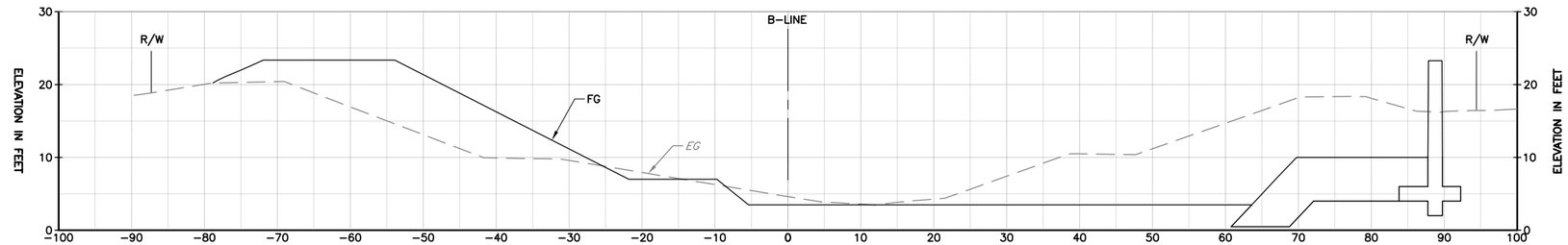

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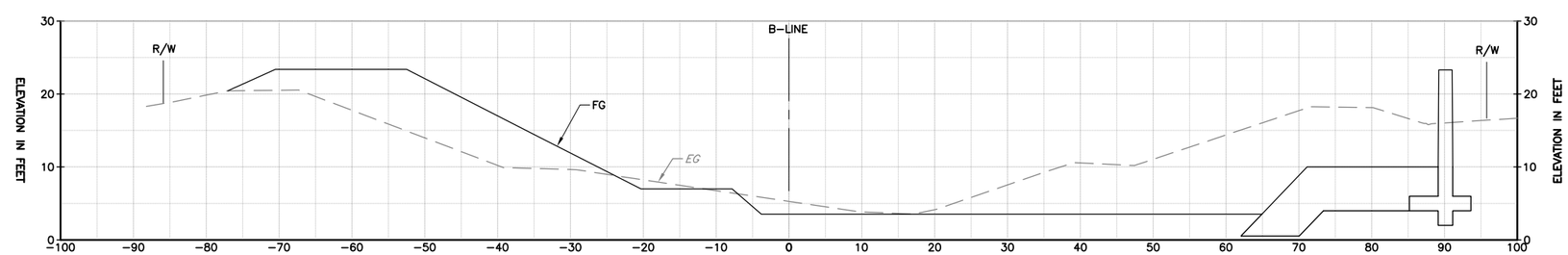

STA 5+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-3
SHEET NUMBER: 53 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 08:53am
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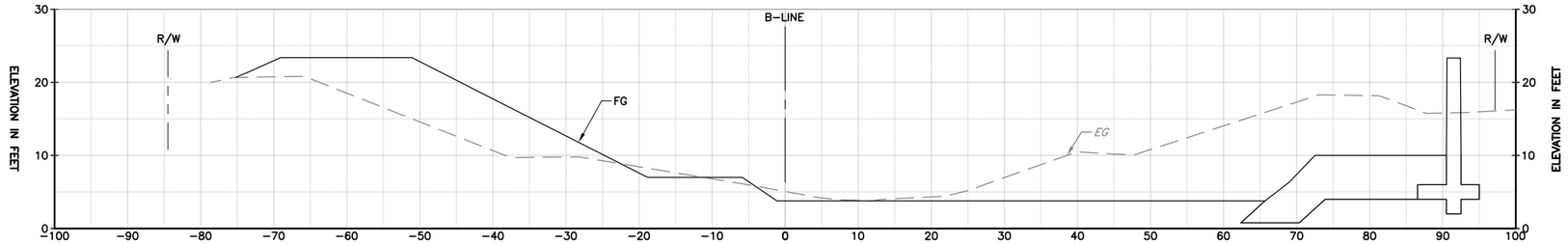

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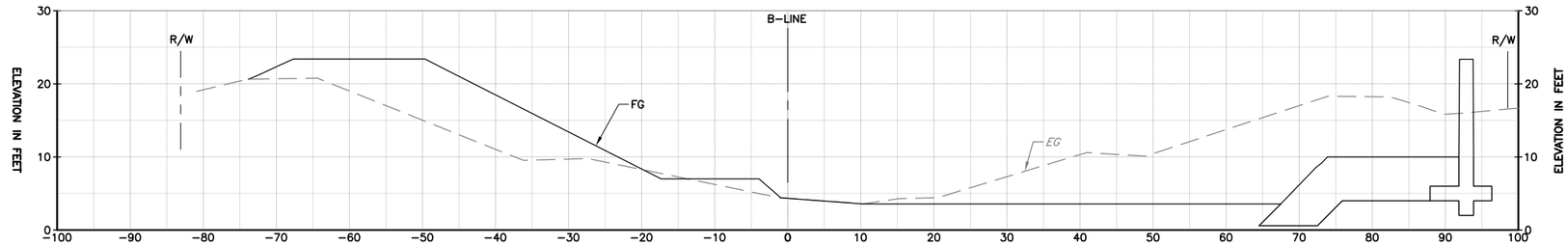

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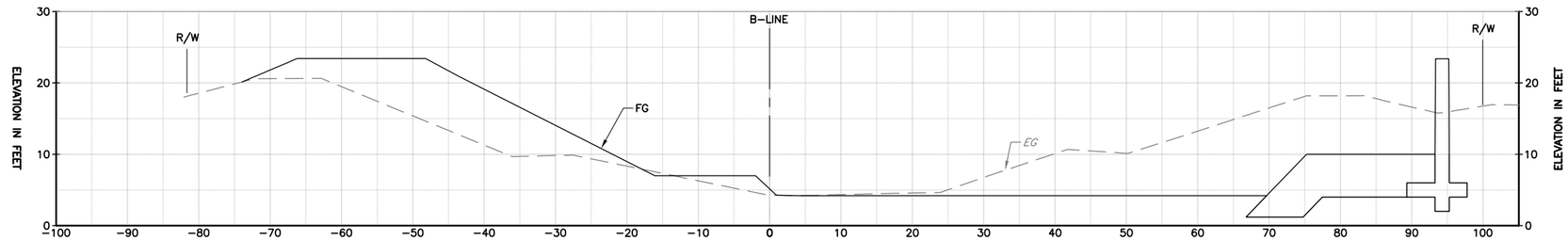

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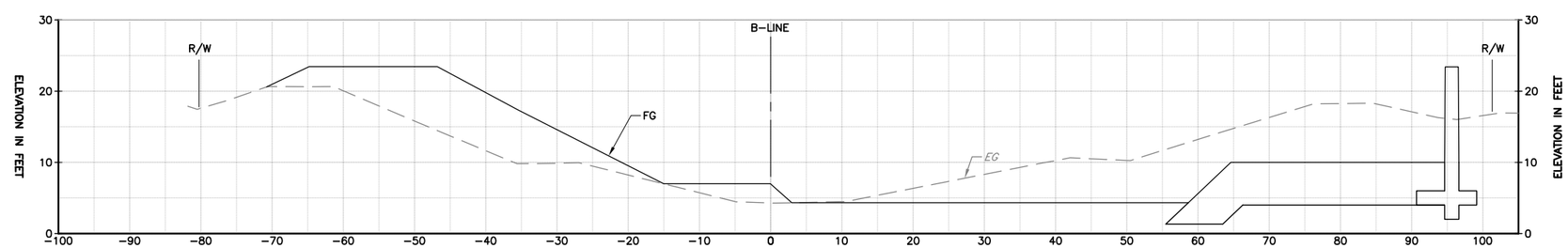

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ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-4
SHEET NUMBER: 54 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 08:56am
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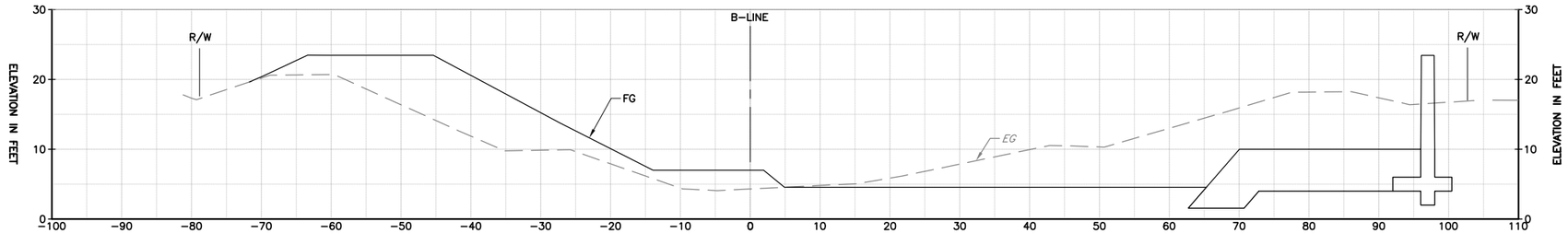

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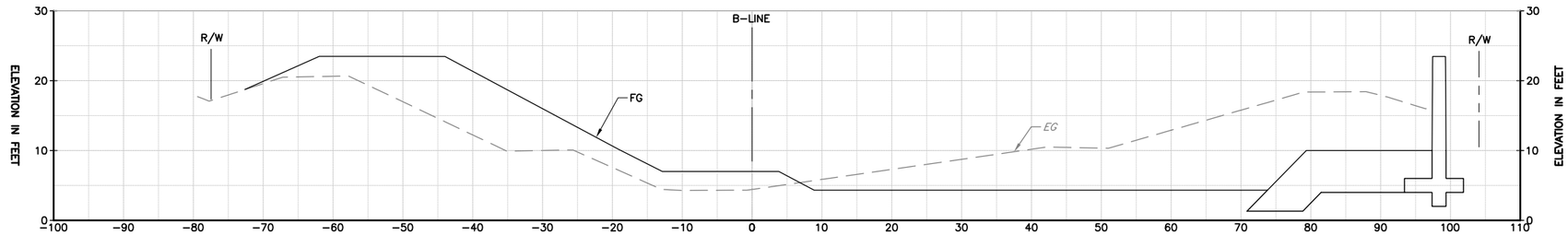

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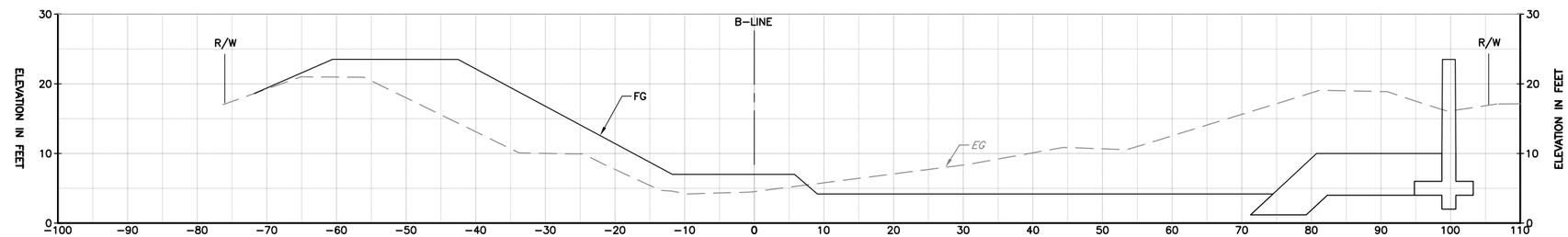

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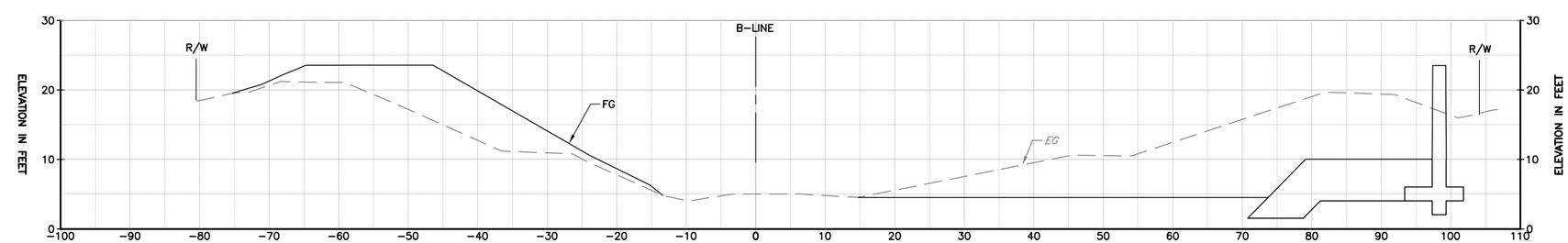

STA 9+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-5
SHEET NUMBER: 55 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

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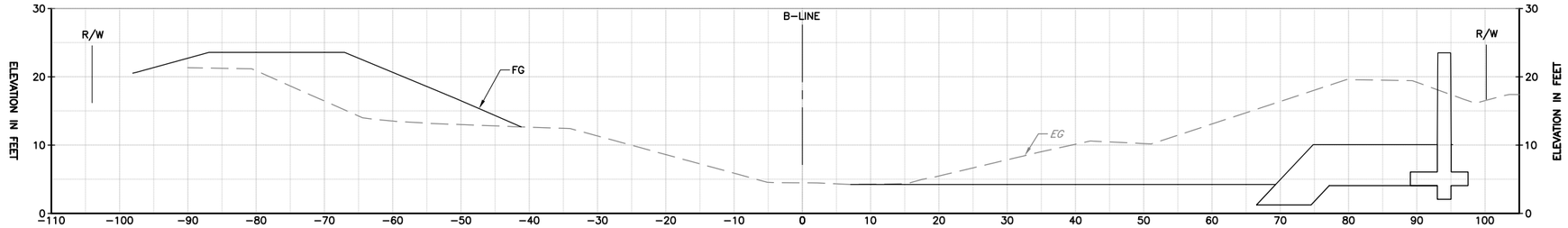

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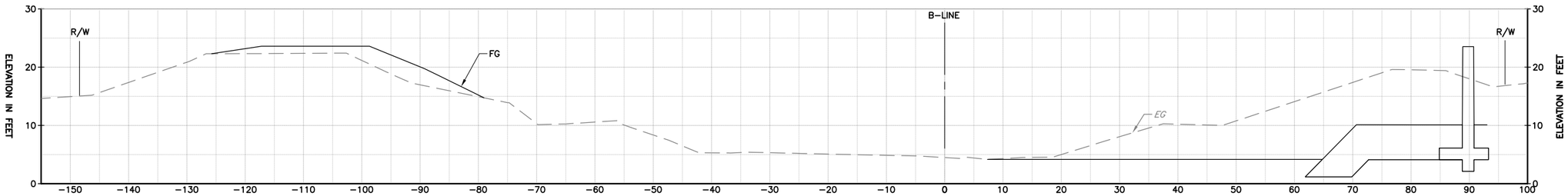

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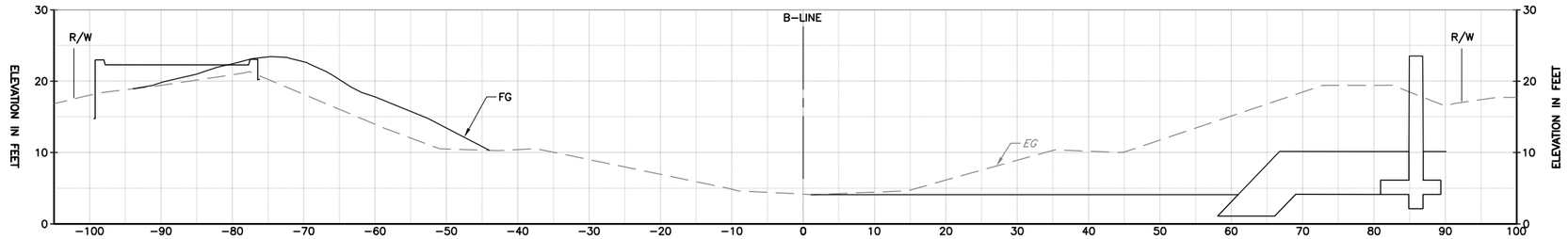

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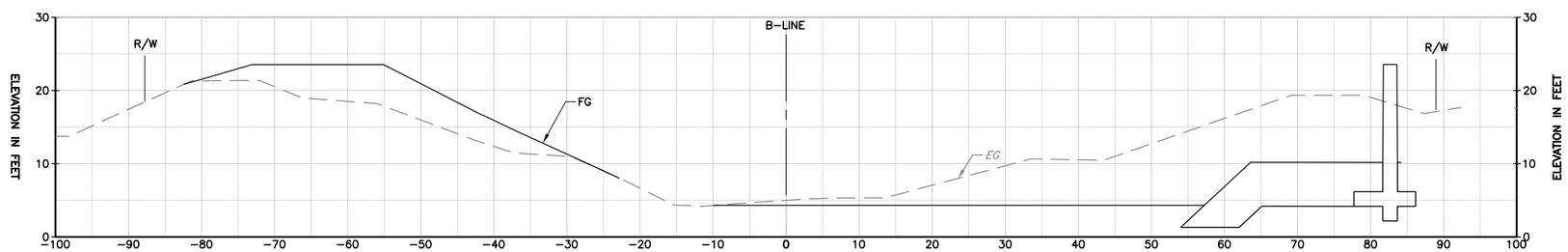

STA 11+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION: REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-6
SHEET NUMBER: 56 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:01am
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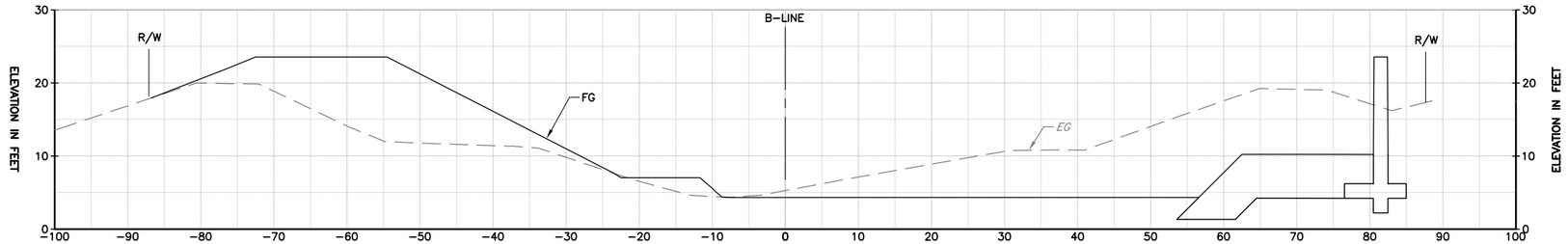

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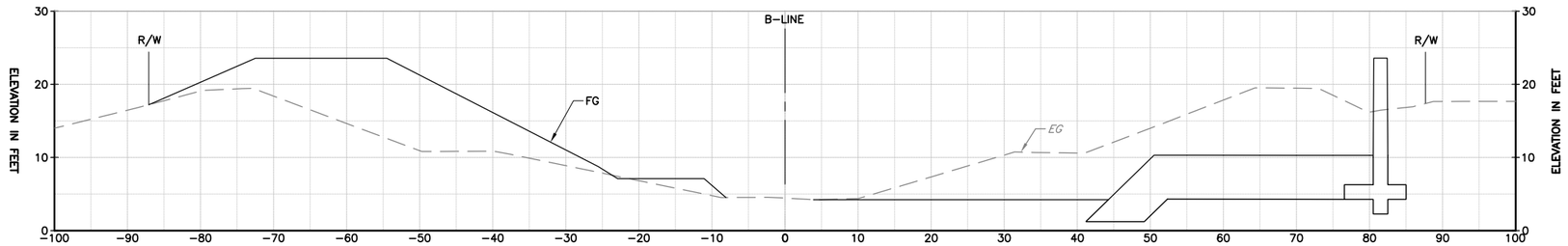

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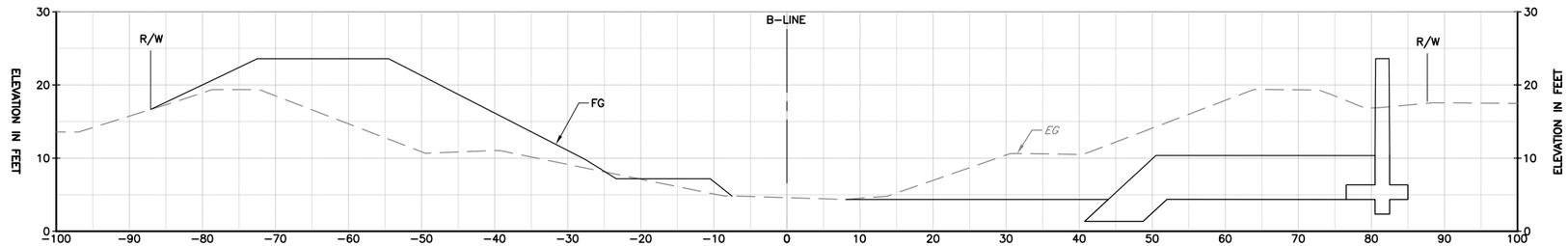

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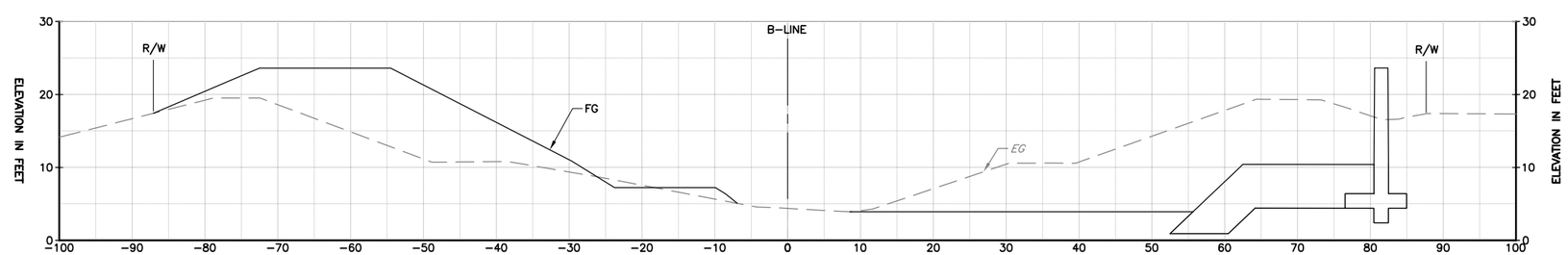

STA 13+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-7
SHEET NUMBER: 57 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:03am
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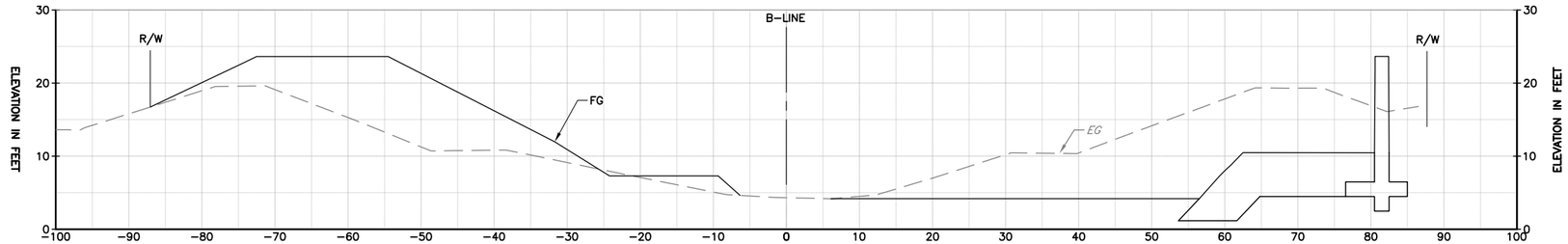

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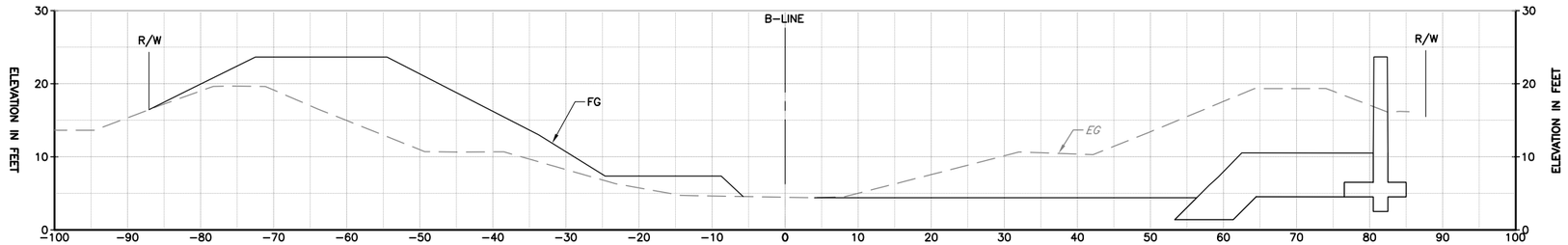

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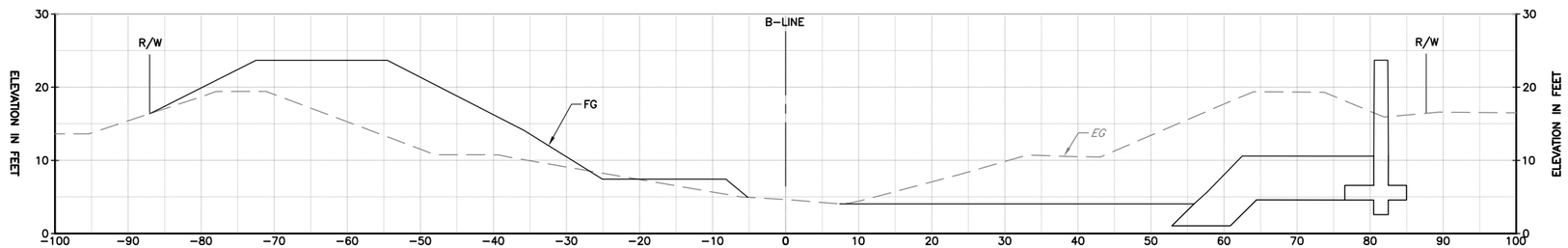

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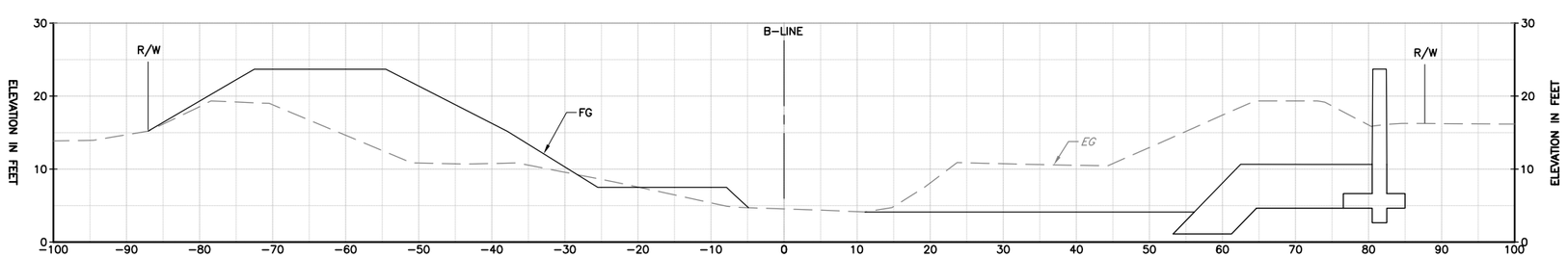

STA 15+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10', V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-8
SHEET NUMBER: 58 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:05am
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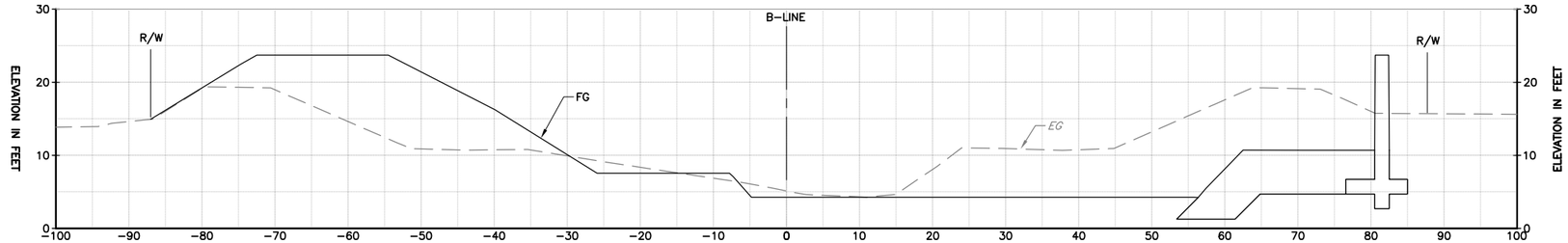

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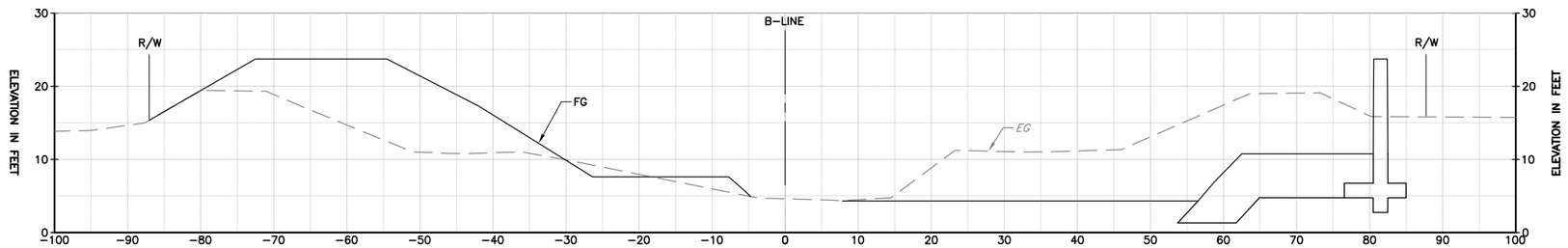

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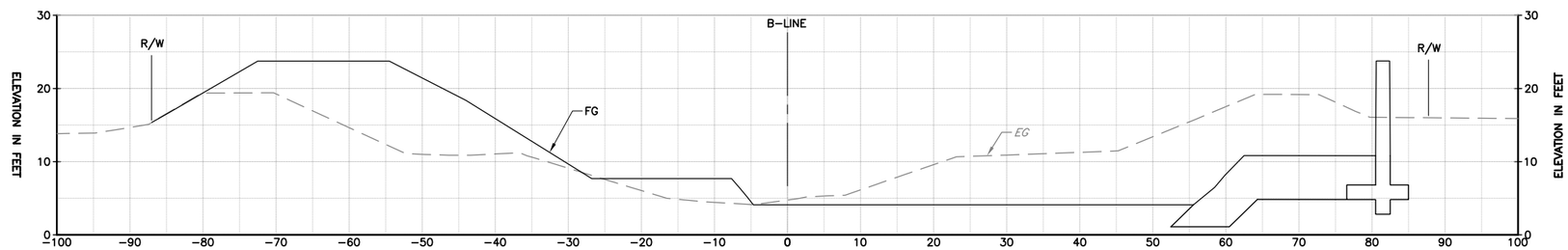

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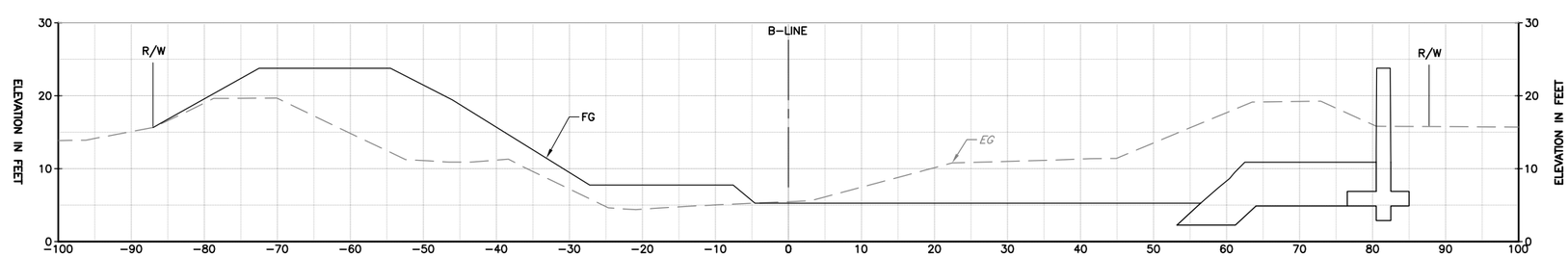

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ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

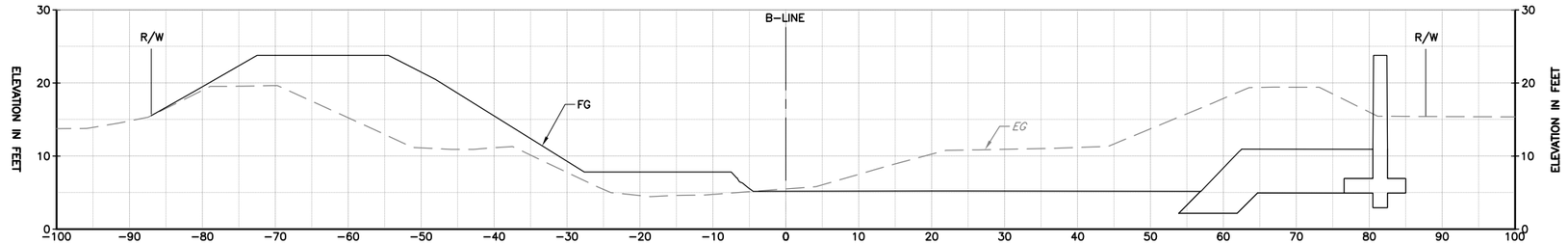
PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-9
SHEET NUMBER: 59 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:07am
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\X-09



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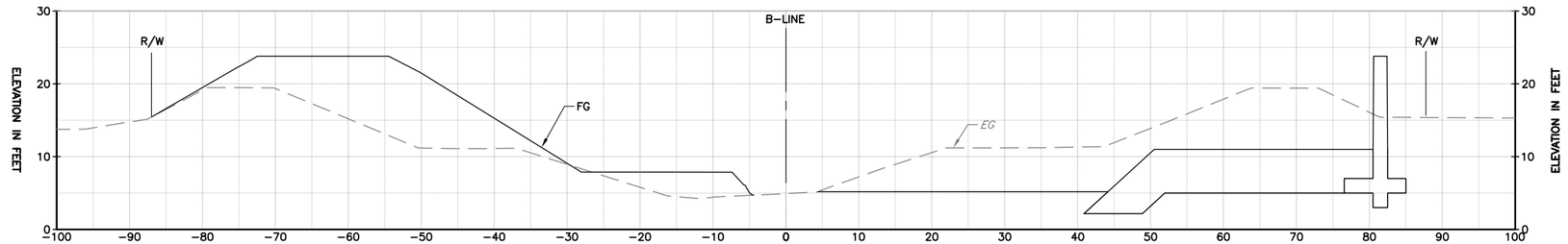

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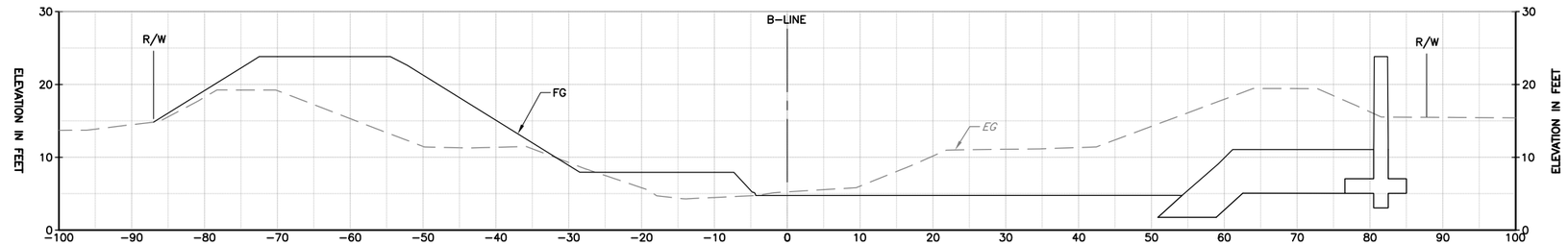

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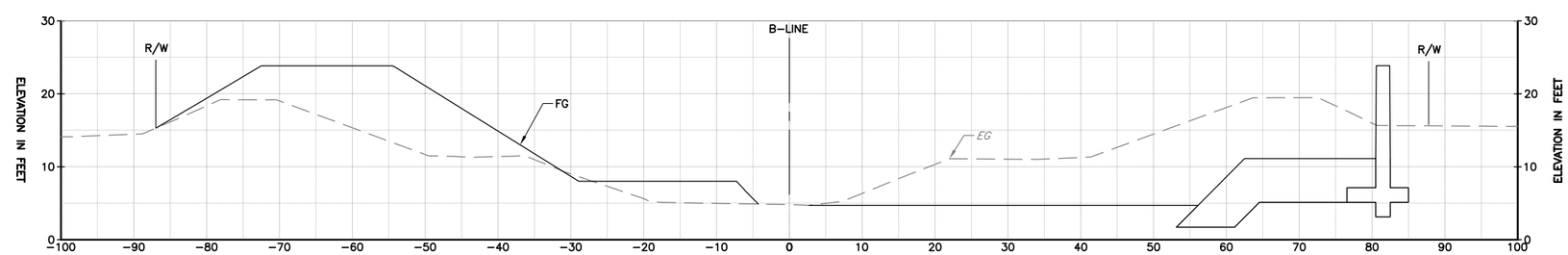

STA 19+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-10
SHEET NUMBER: 60 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:09am
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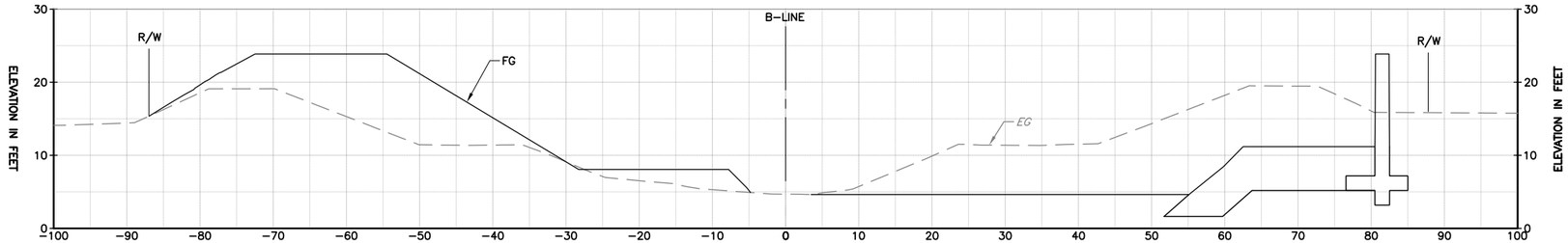

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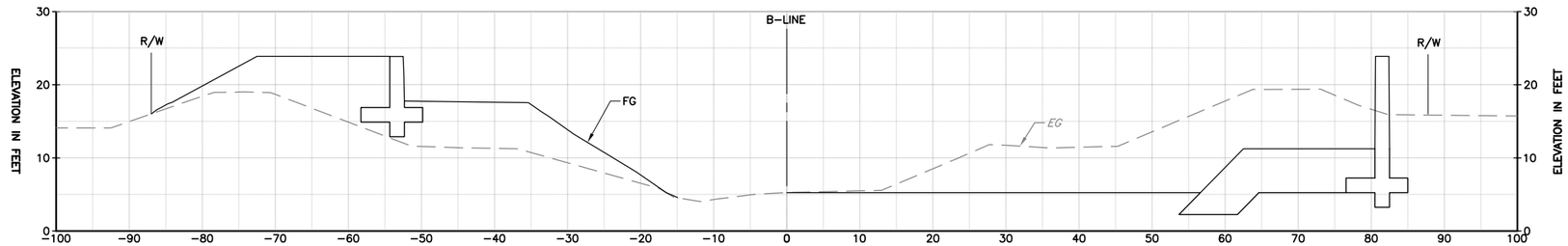

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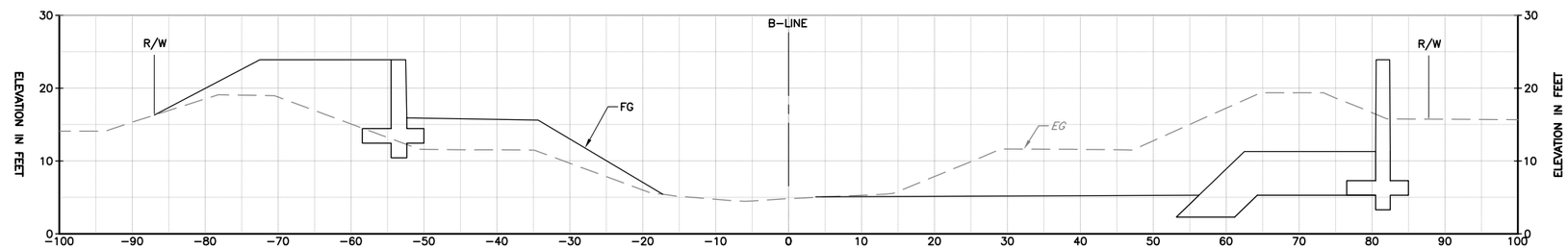

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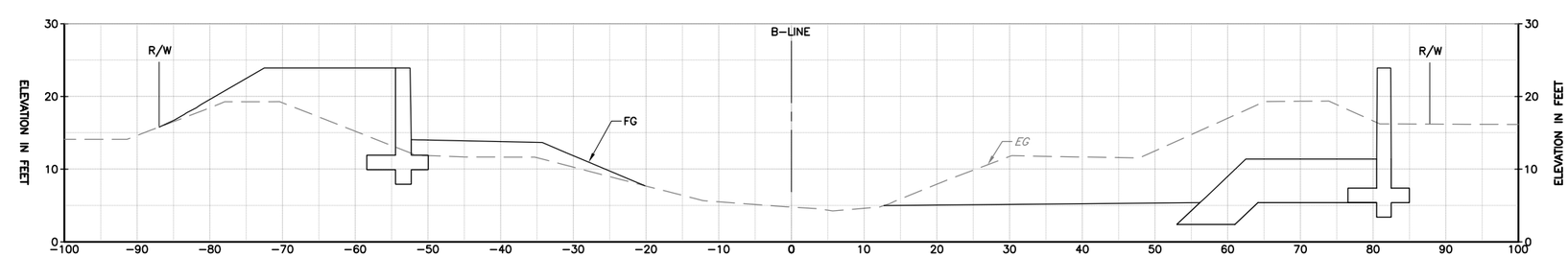

STA 21+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10', V: 1"=10'
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-11
SHEET NUMBER: 61 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:11am
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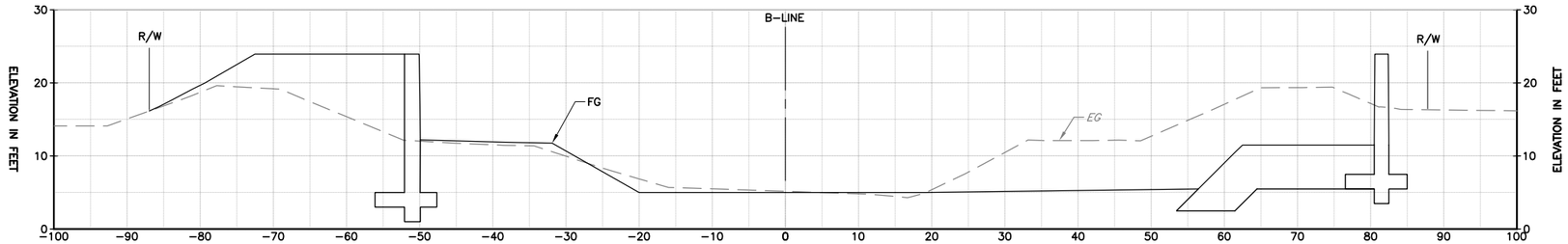

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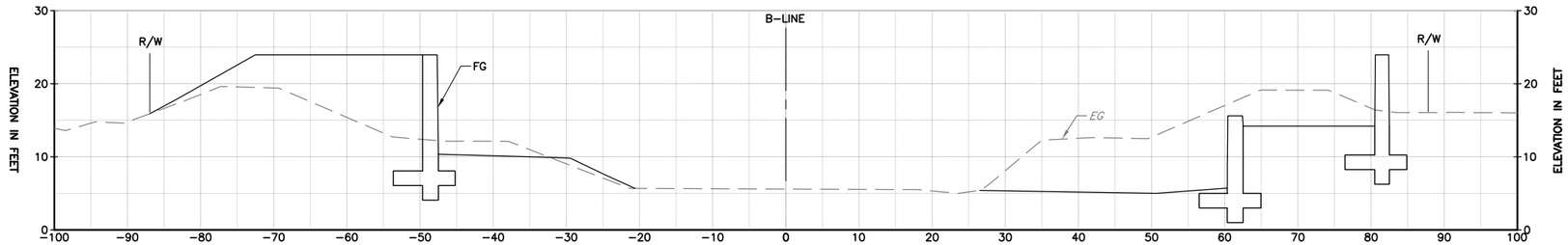

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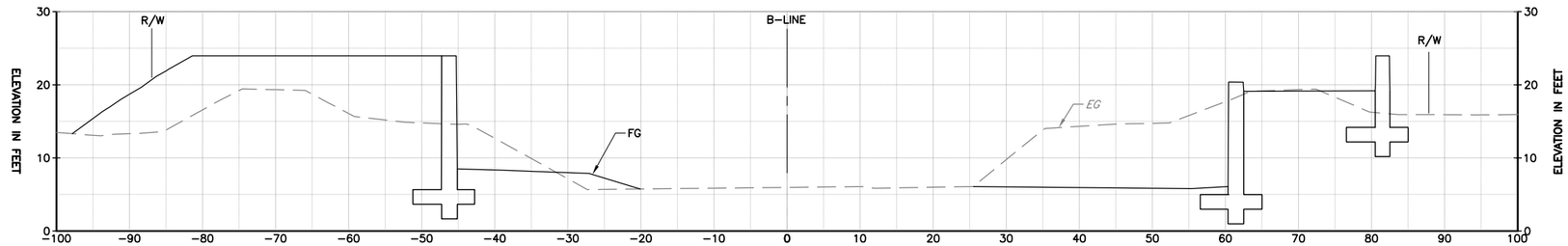

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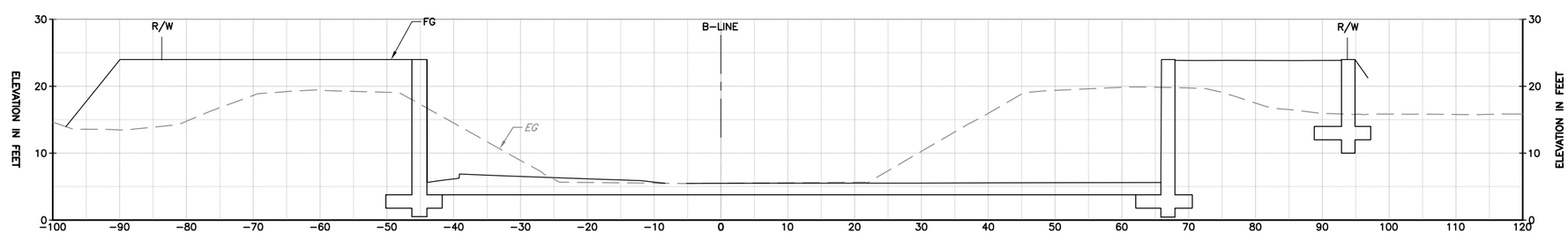

STA 23+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-12
SHEET NUMBER: 62 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:13am
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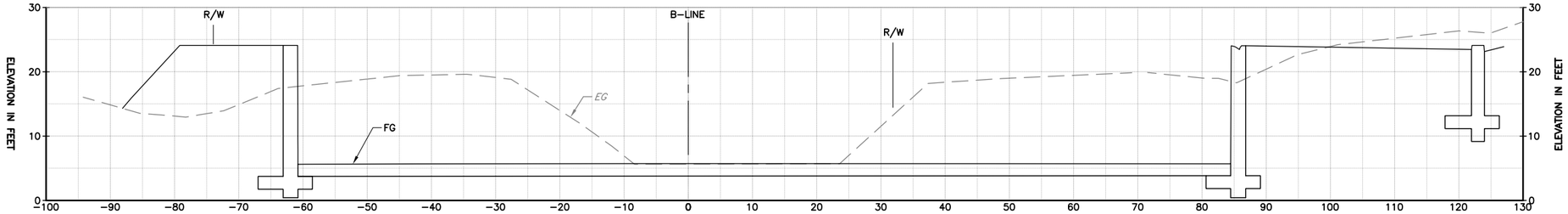

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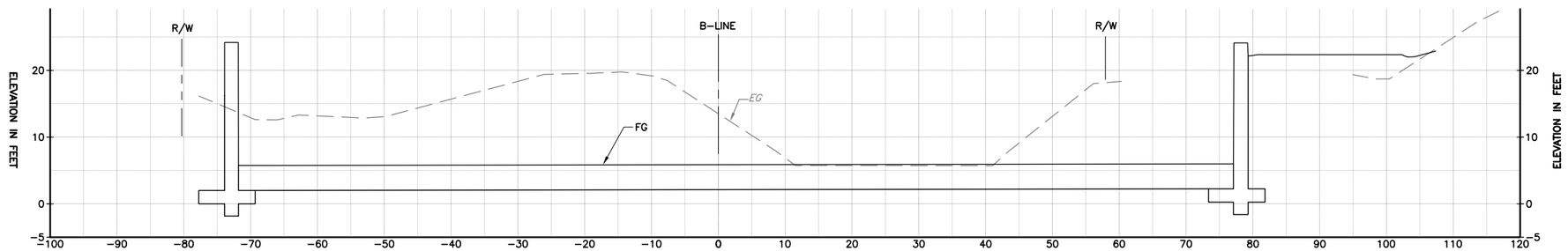

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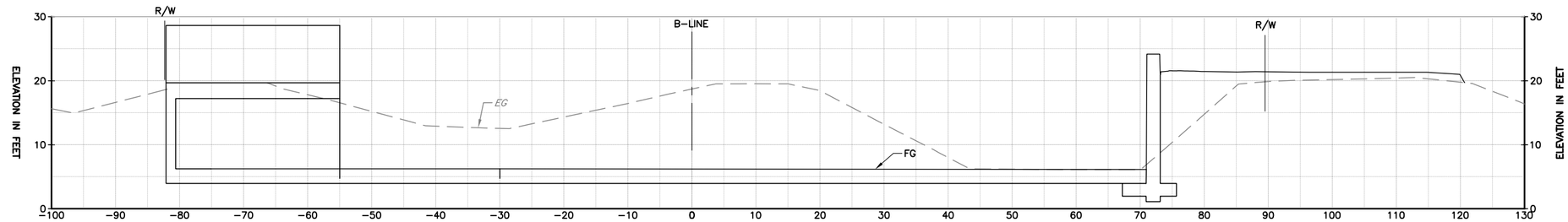

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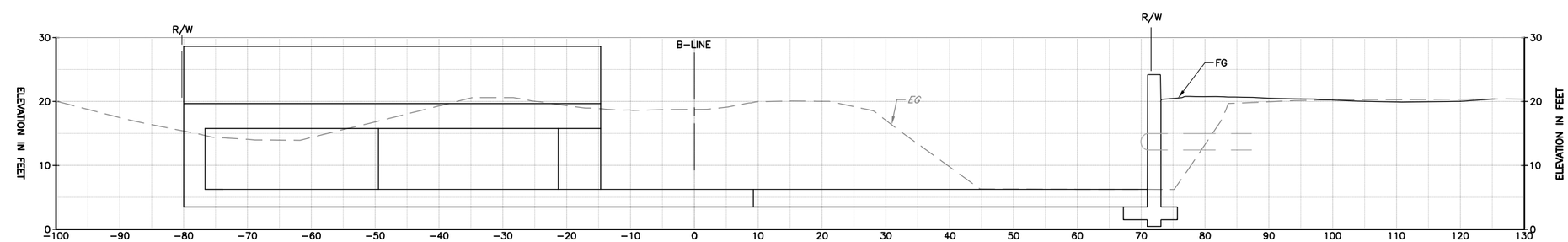

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ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE H: 1"=10' V: 1"=10'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: X-13
SHEET NUMBER: 63 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:15am
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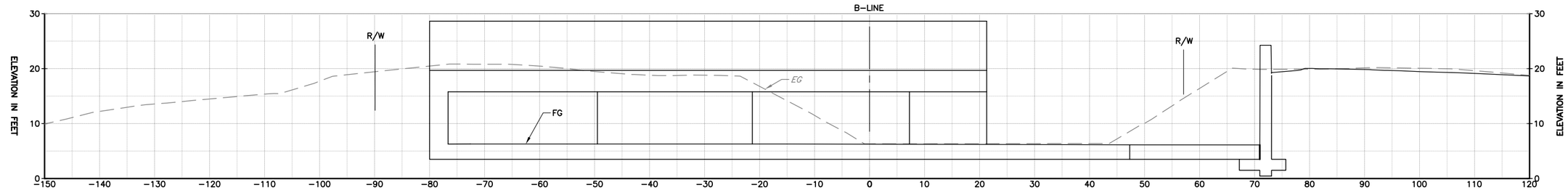

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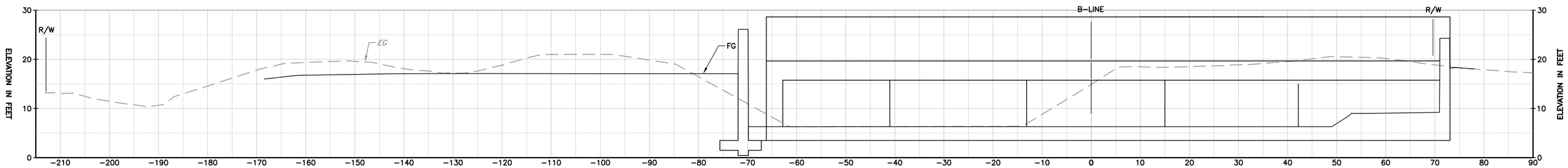

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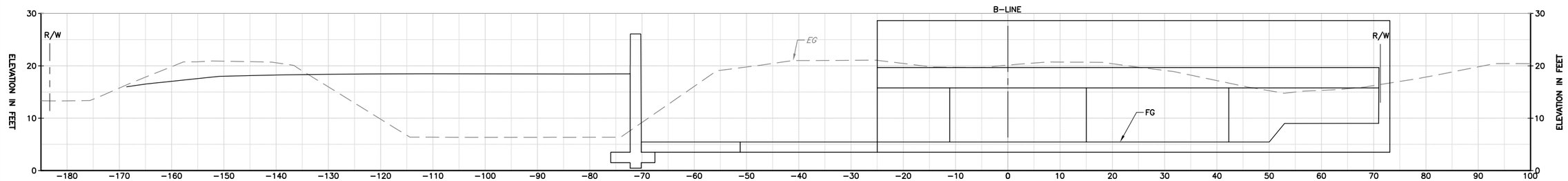

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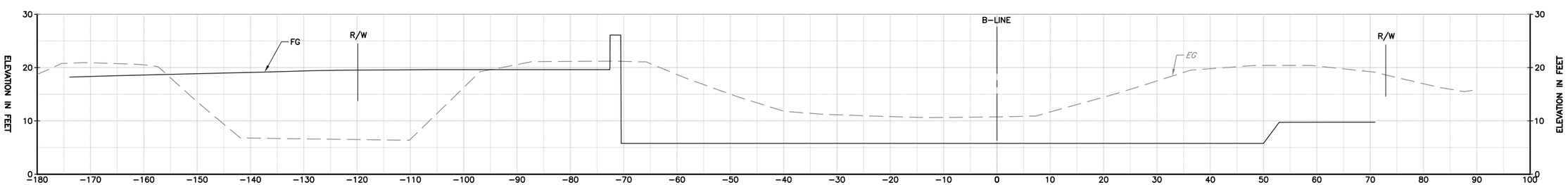

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ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE H: 1"=10' V: 1"=10'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: X-14
SHEET NUMBER: 64 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:18am
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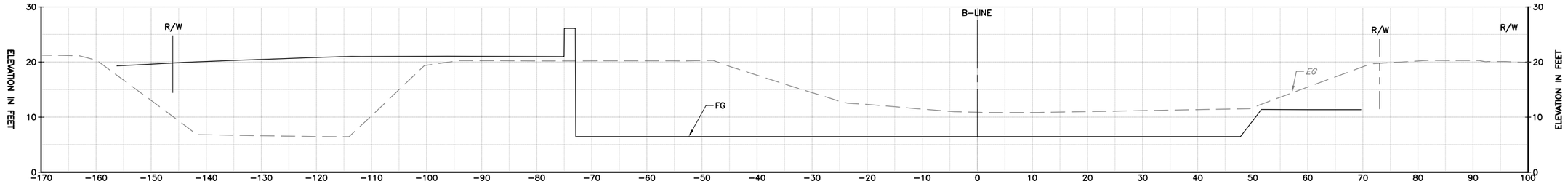

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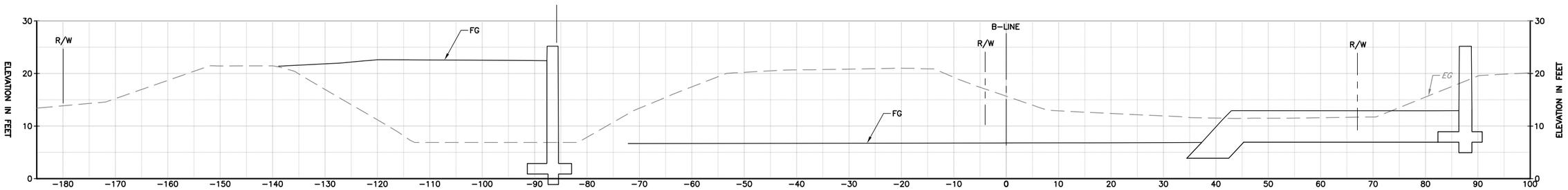

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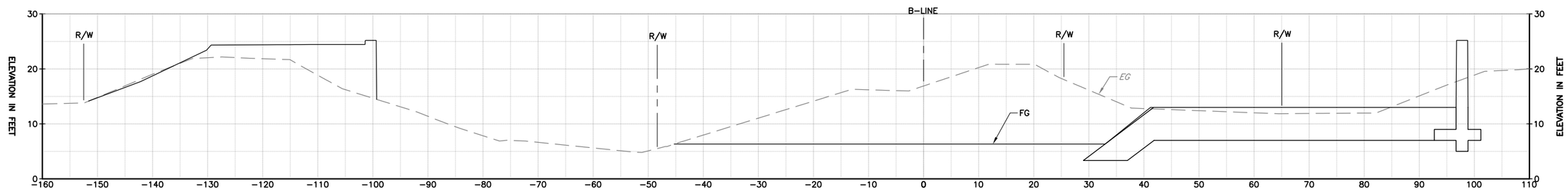

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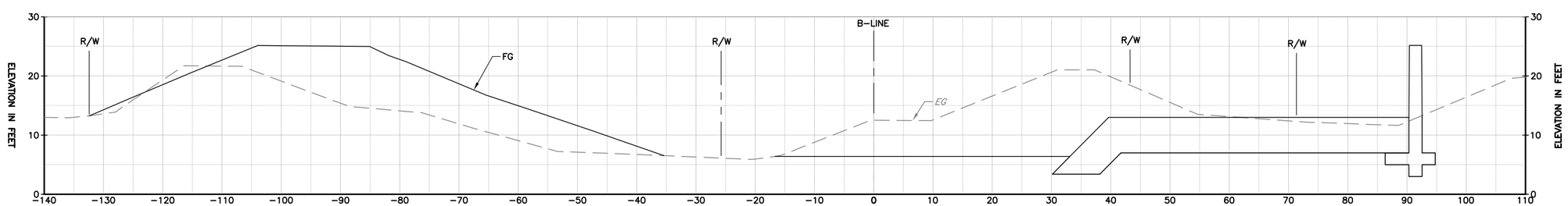

STA 29+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE H: 1"=10' V: 1"=10'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: X-15
SHEET NUMBER: 65 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:20am
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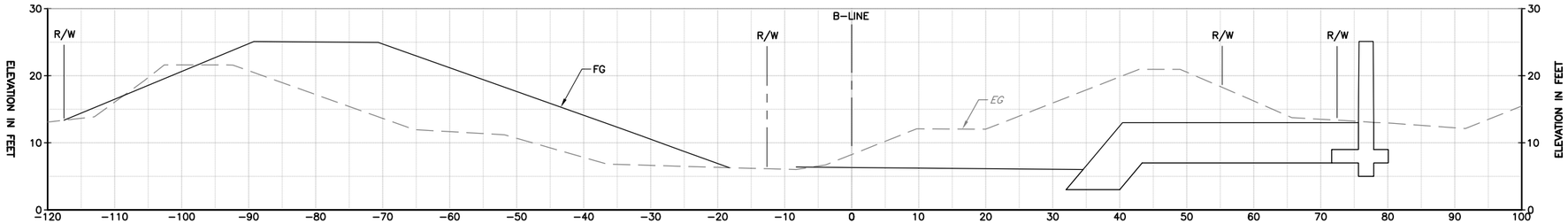

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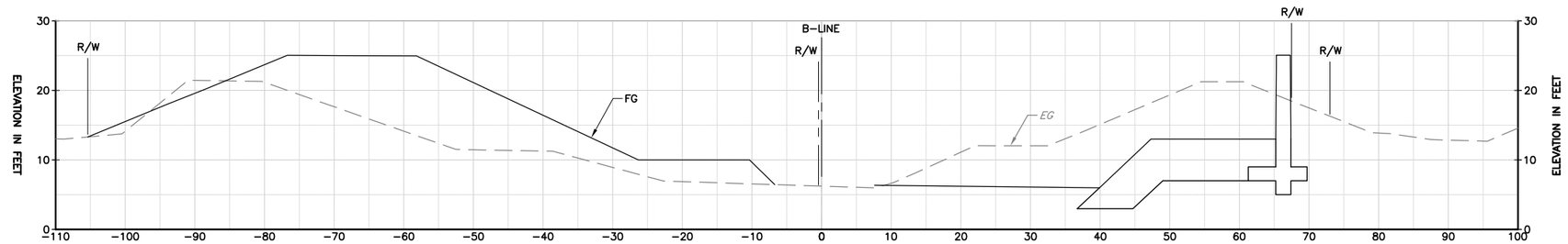

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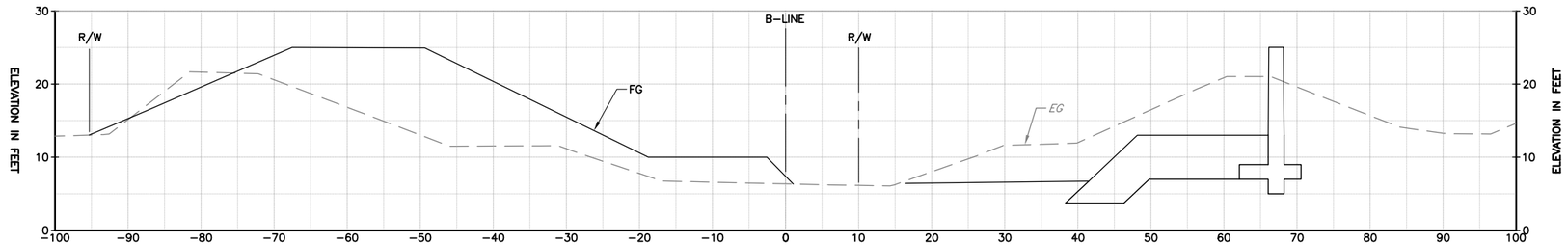

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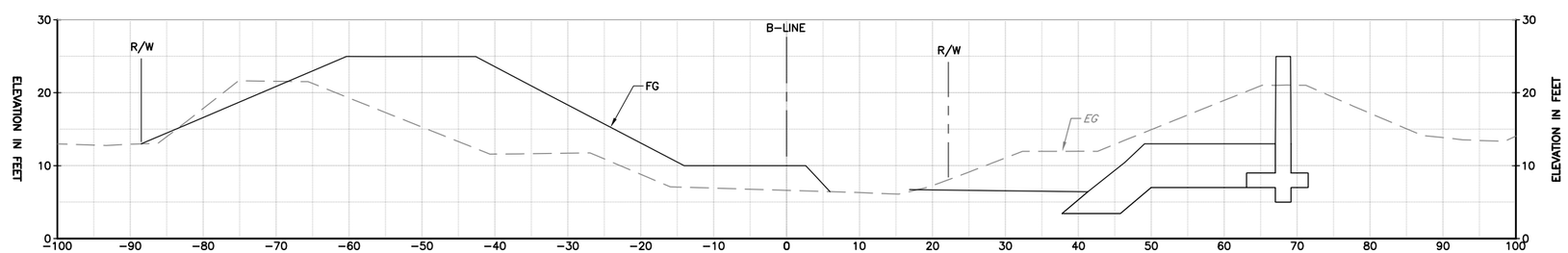

STA 31+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-16
SHEET NUMBER: 66 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:22am
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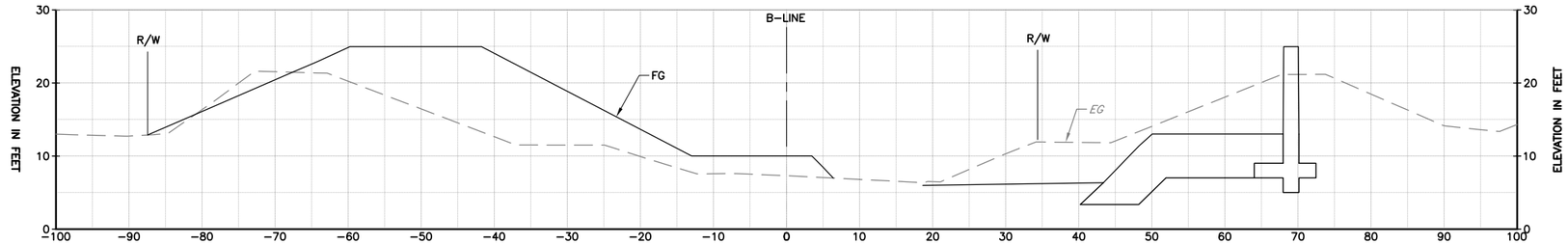

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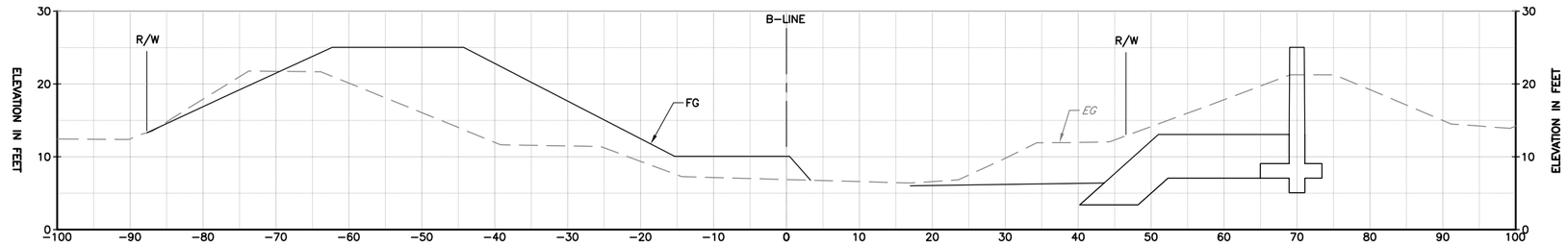

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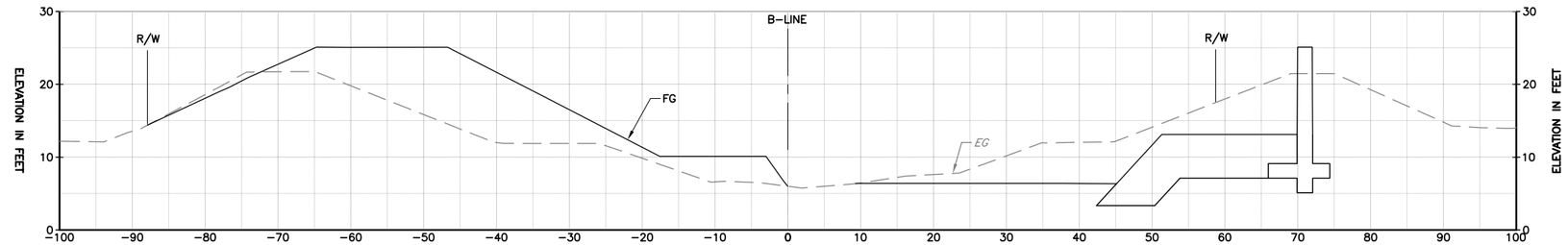

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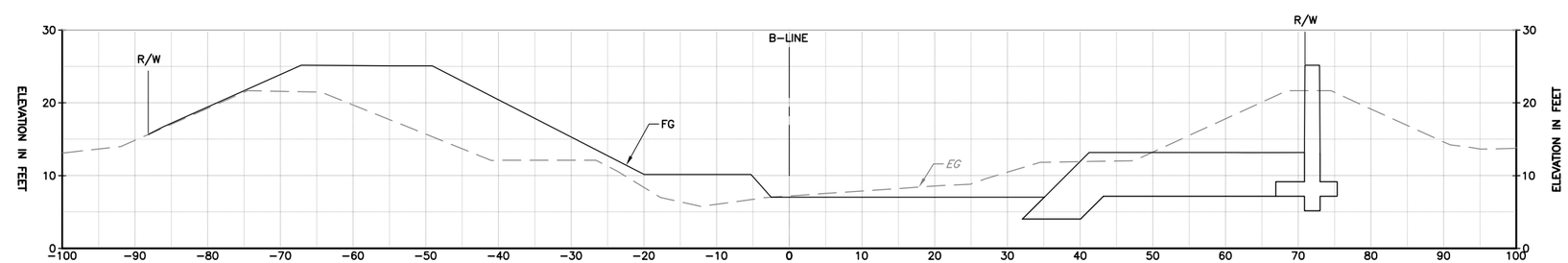

STA 33+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-17
SHEET NUMBER: 67 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:24am
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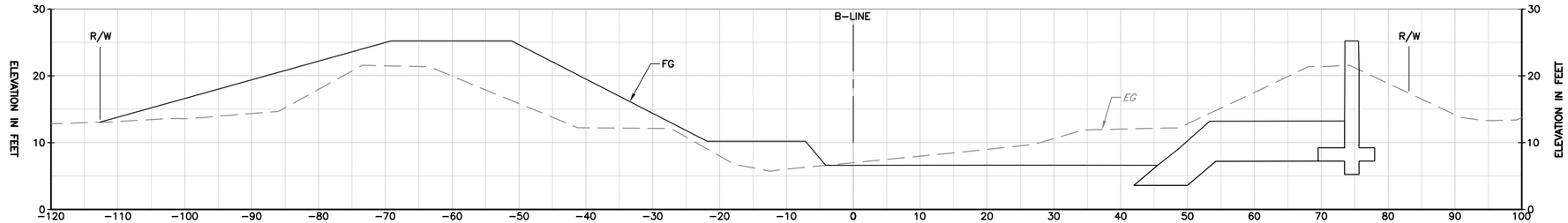

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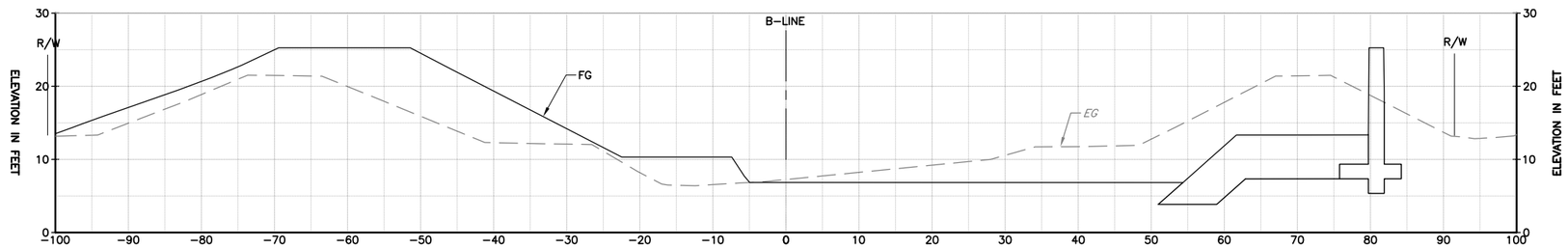

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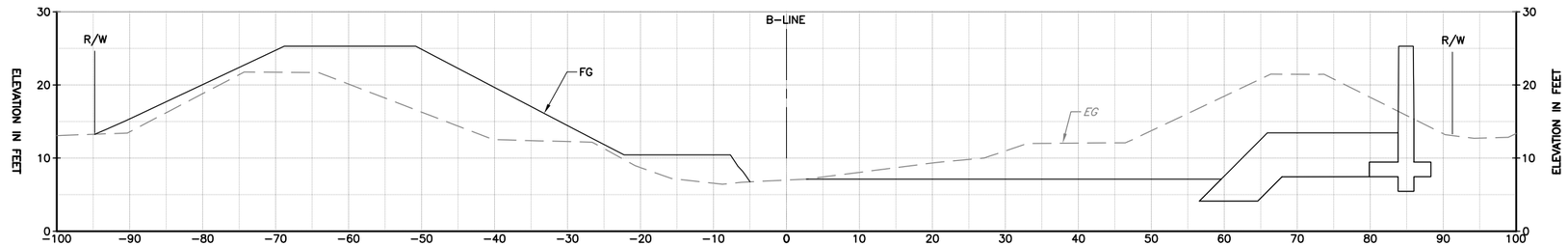

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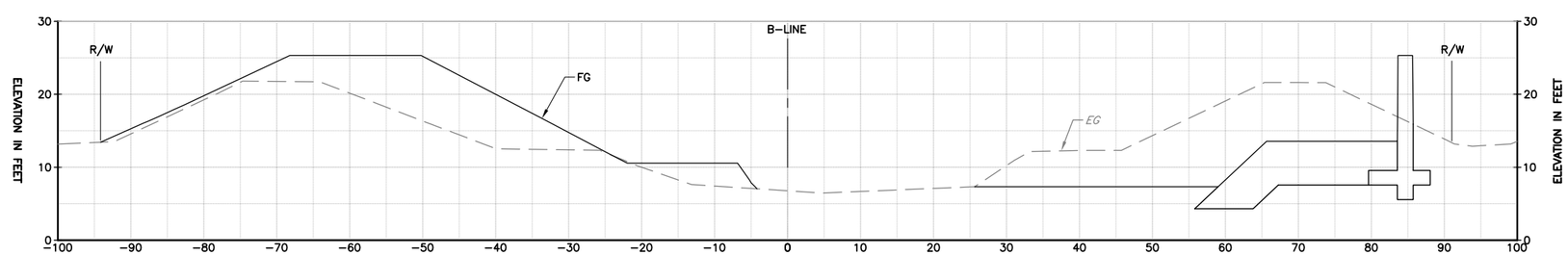

STA 35+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-18
SHEET NUMBER: 68 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:27am
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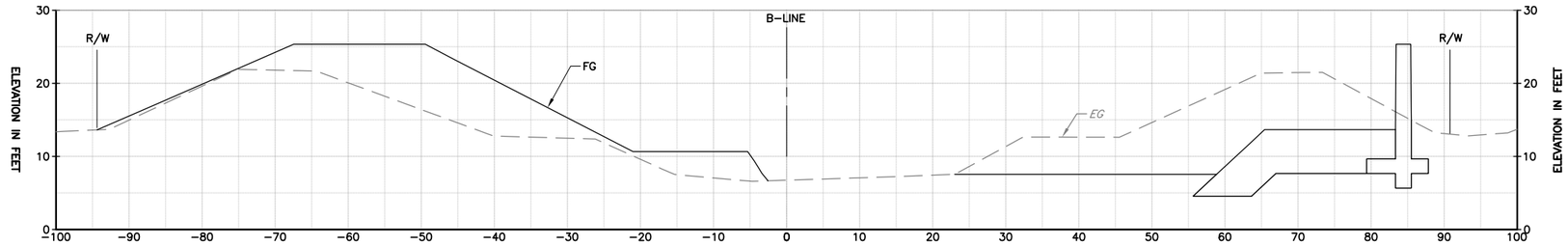

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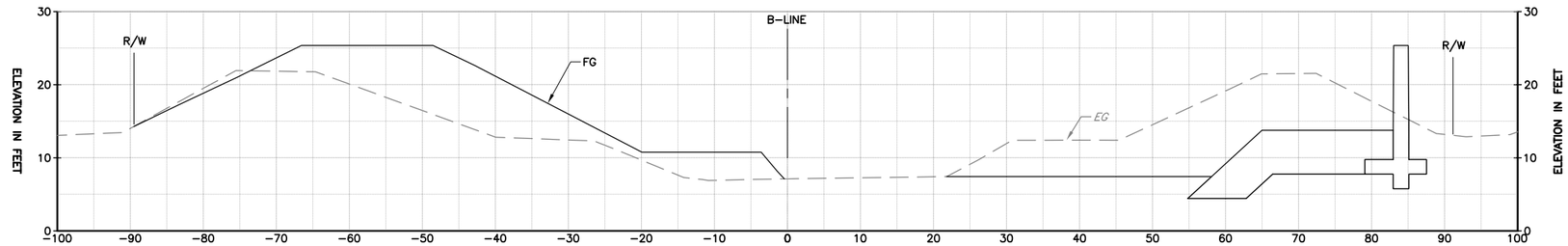

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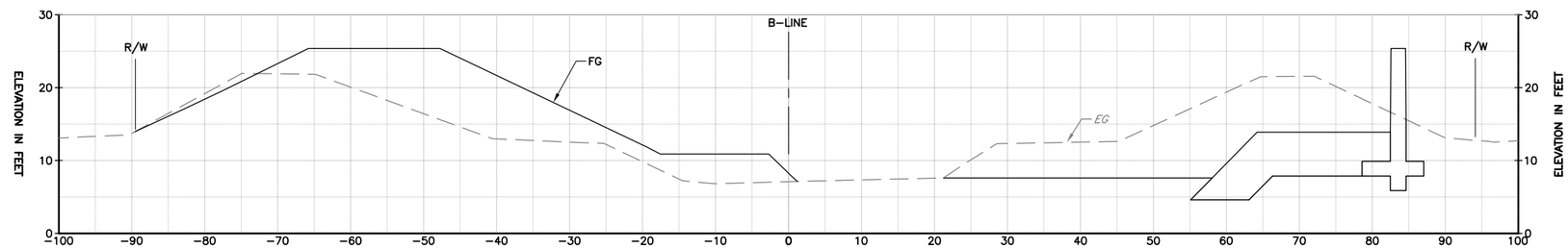

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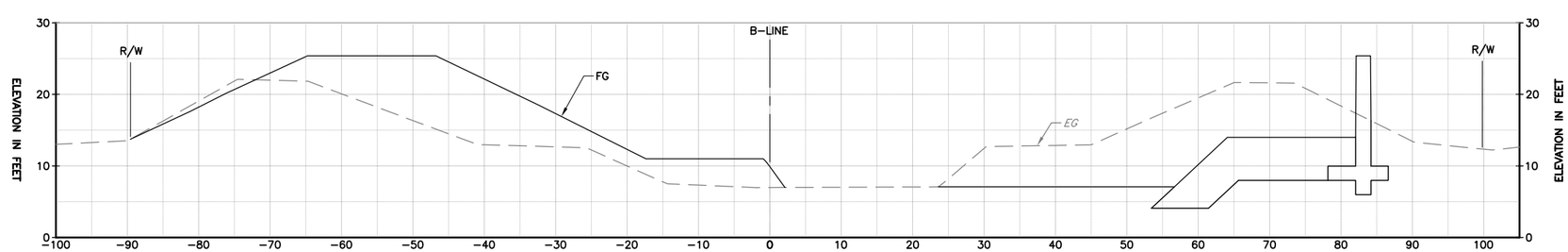

STA 37+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS
BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-19
SHEET NUMBER: 69 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:29am
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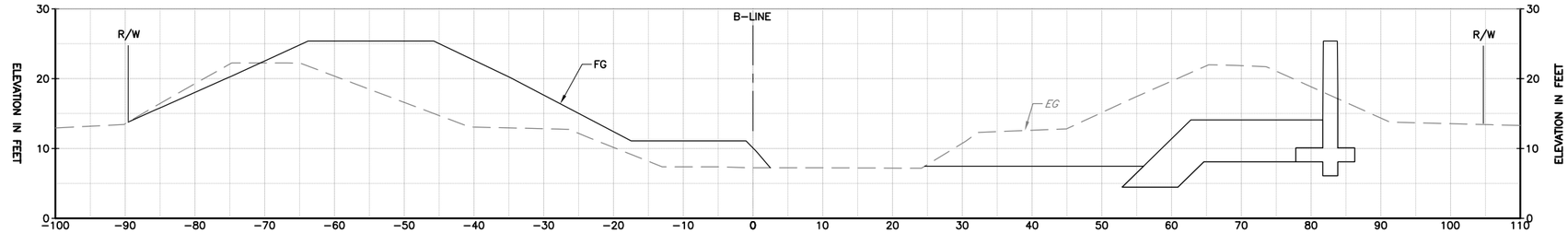

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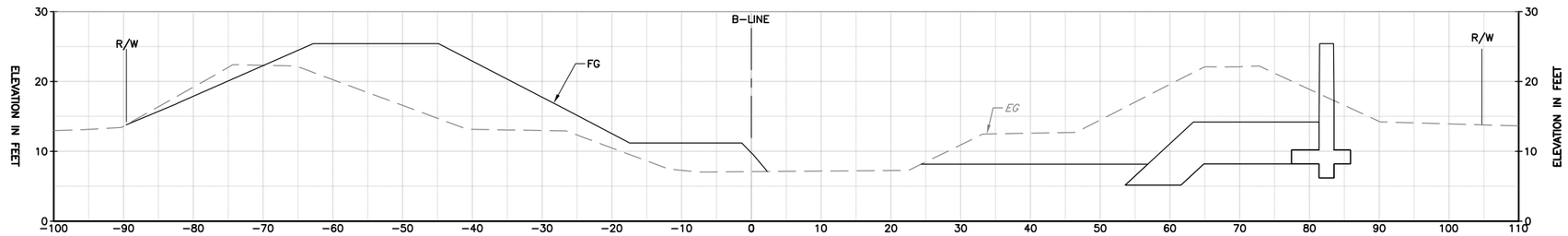

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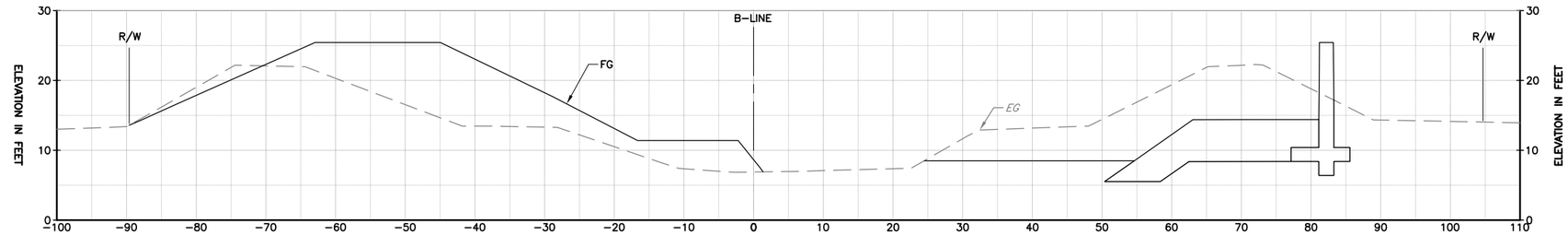

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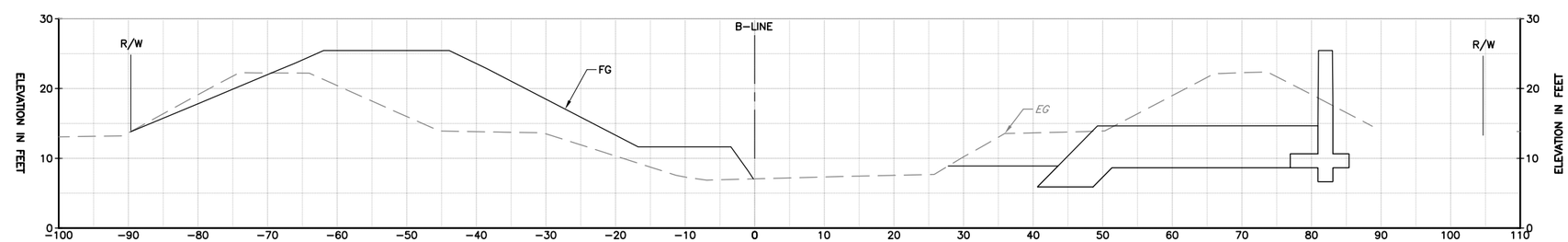

STA 39+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-20
SHEET NUMBER: 70 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

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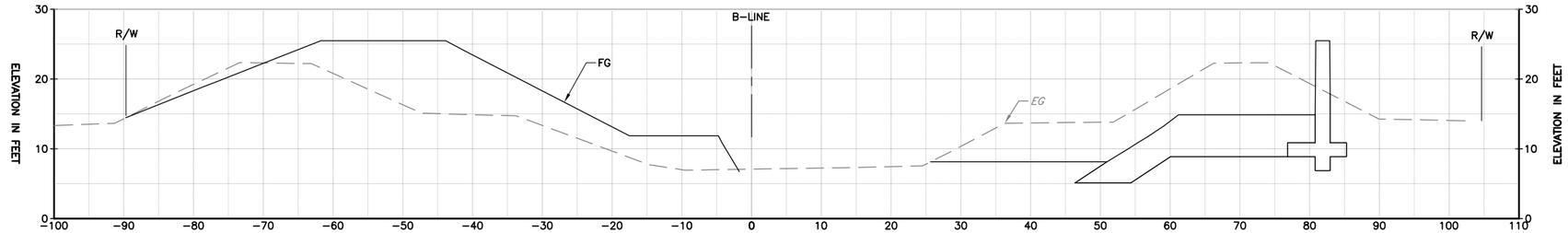

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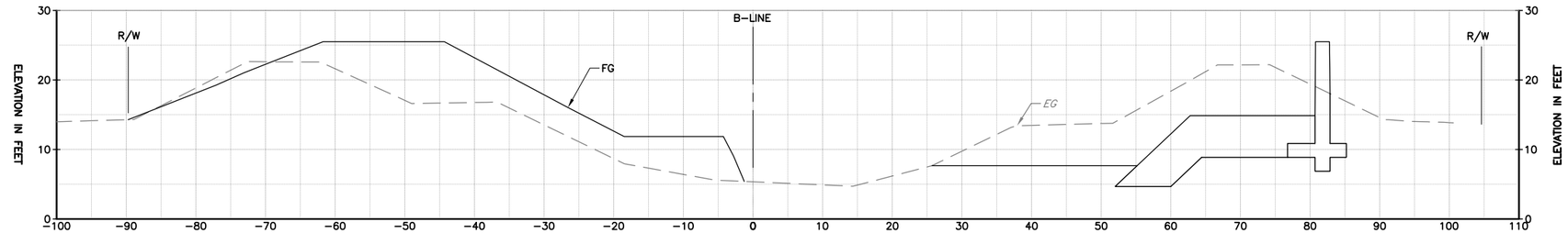

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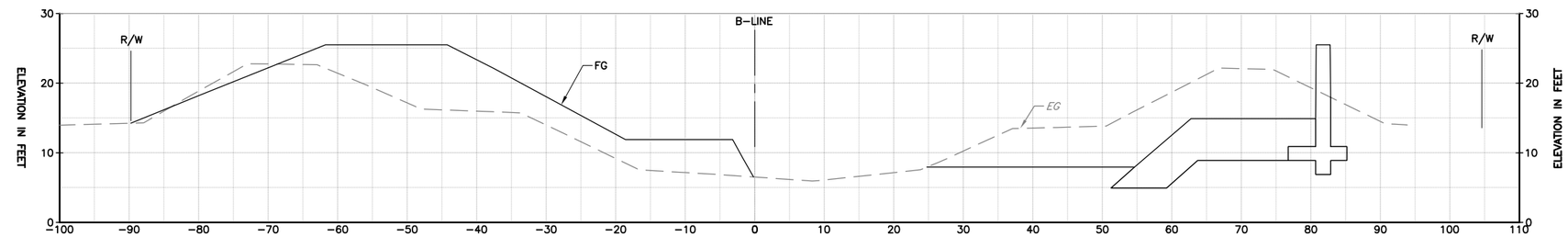

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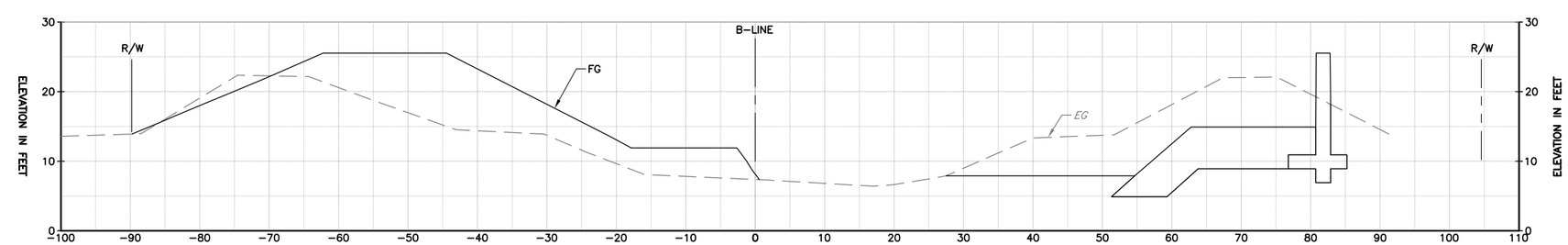

STA 41+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS
BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-21
SHEET NUMBER: 71 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:33am
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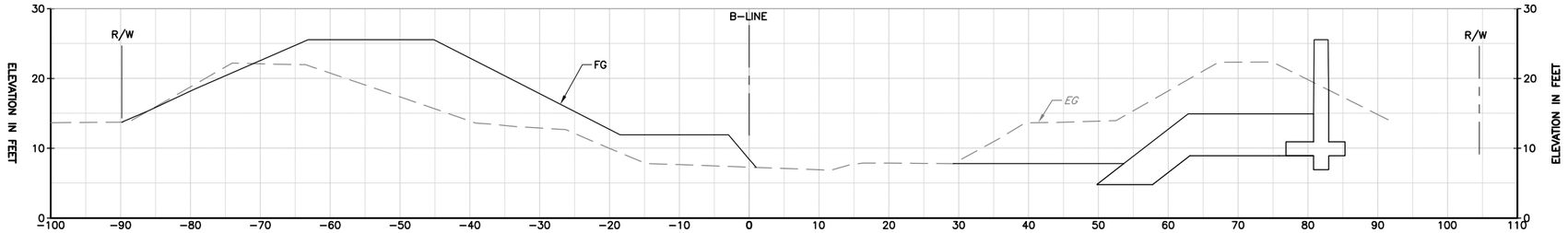

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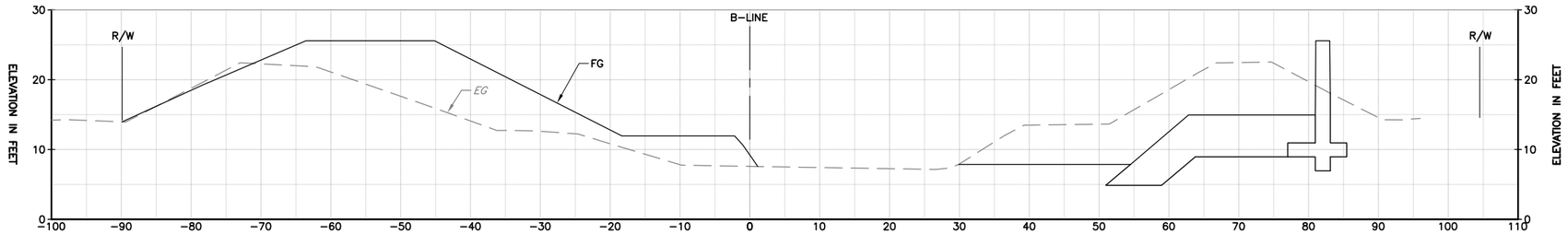

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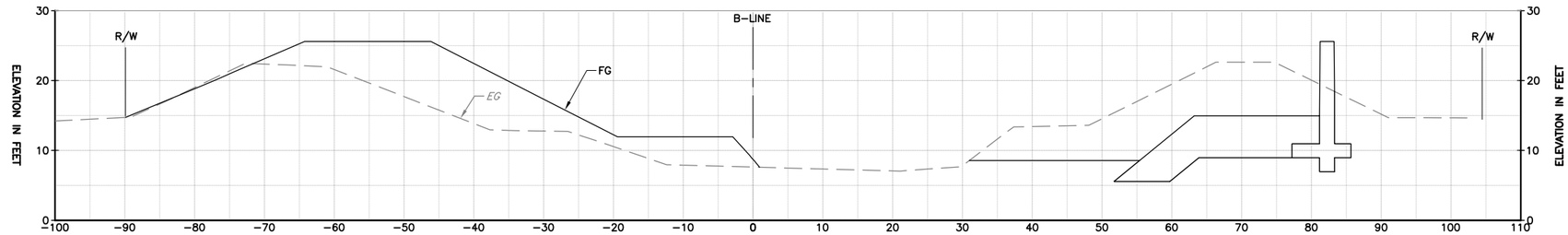

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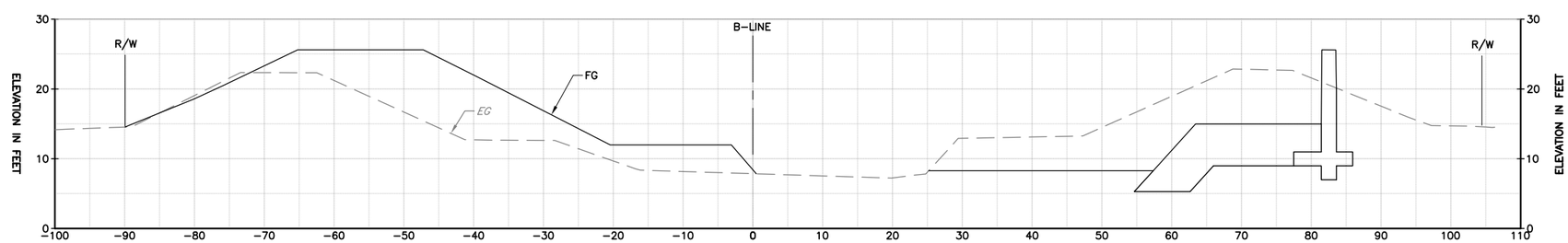

STA 43+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT

CROSS SECTIONS
BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-22
SHEET NUMBER: 72 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:35am
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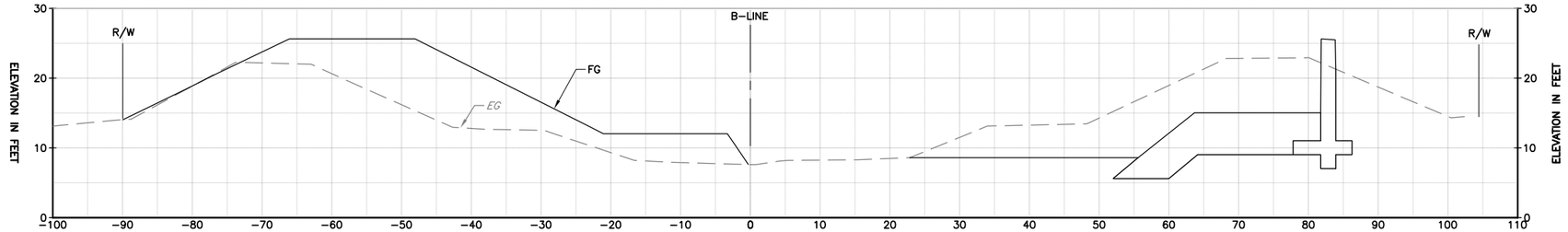

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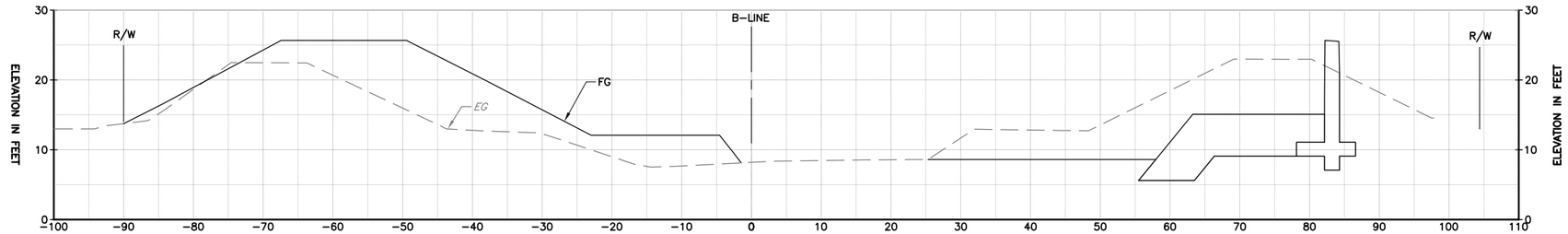

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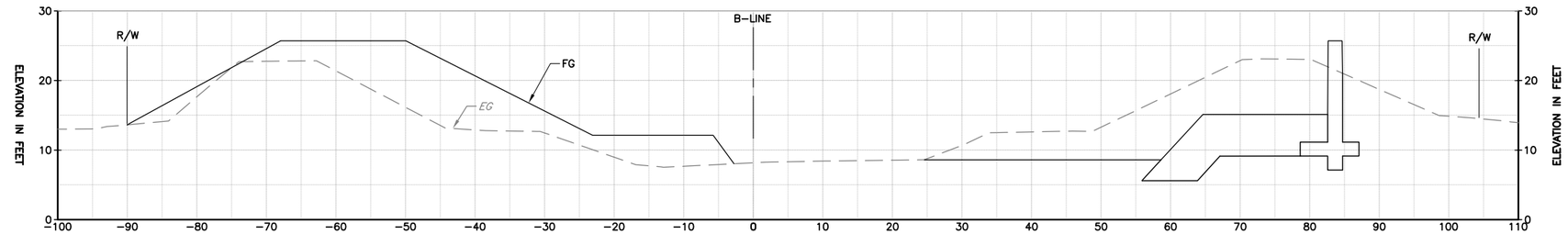

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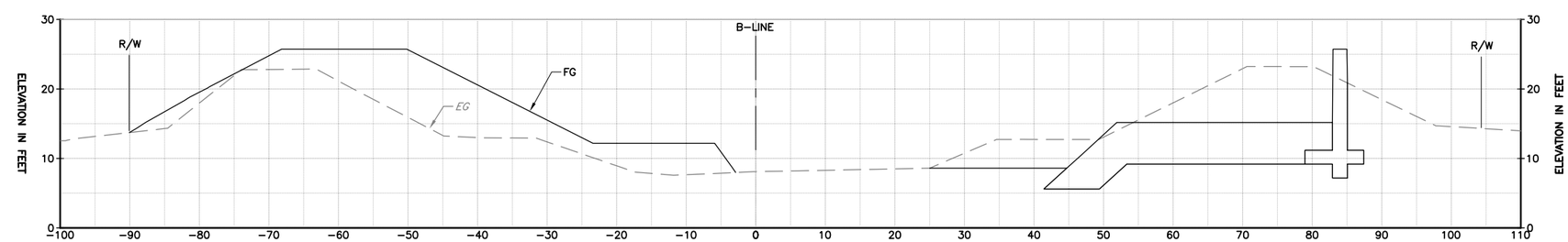

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ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-23
SHEET NUMBER: 73 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:37am
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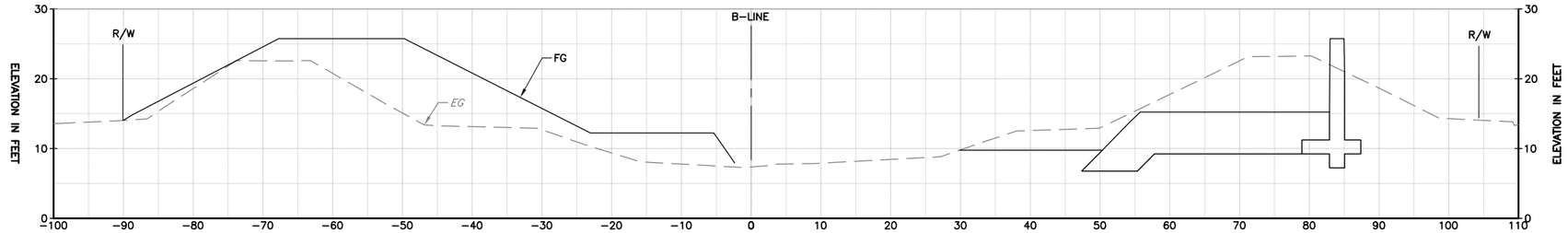

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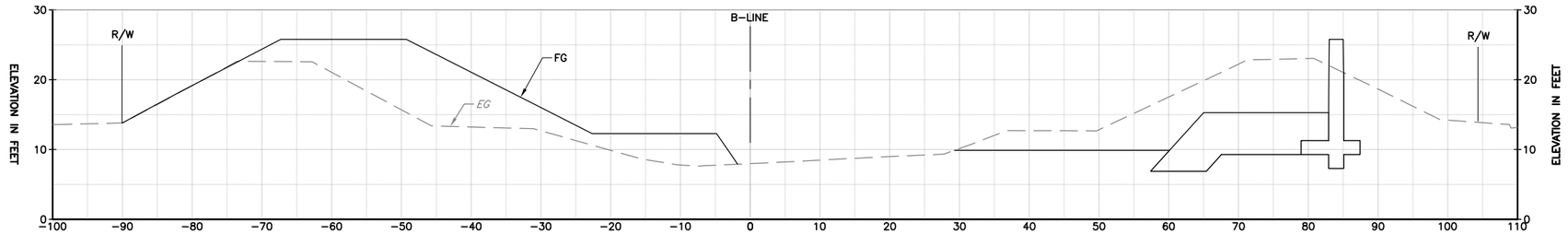
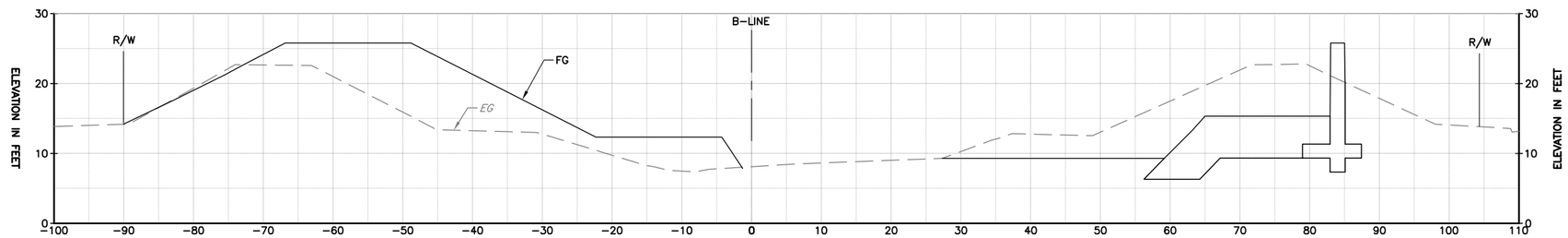
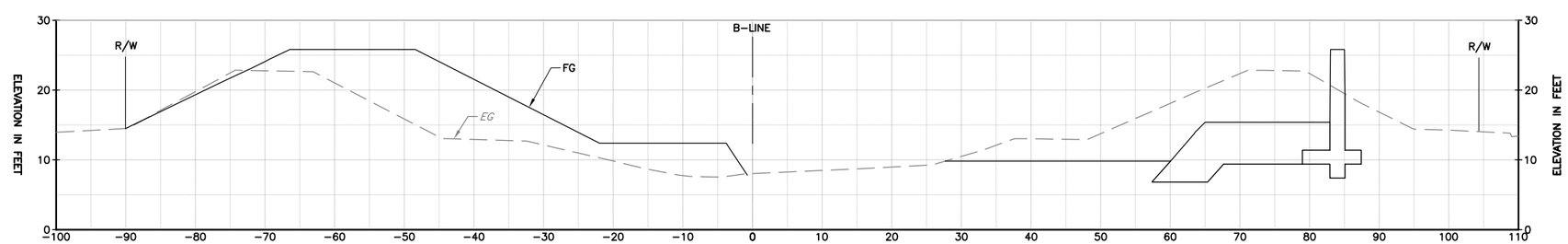


STA 46+50



STA 47+00



STA 47+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

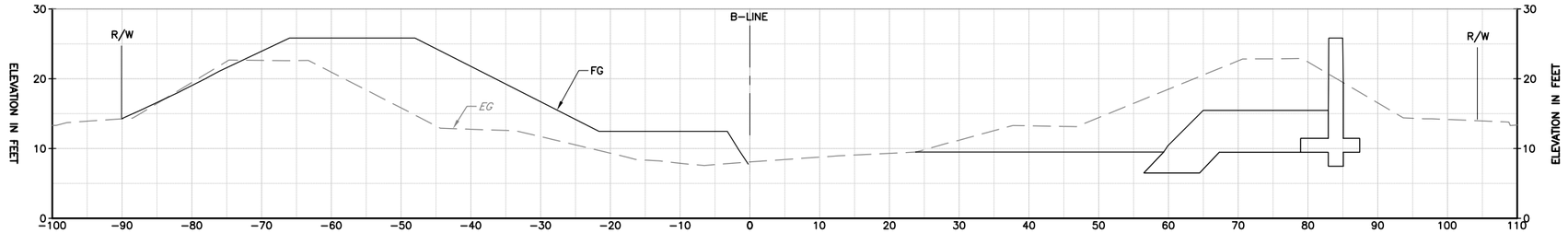
PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS
BERRYESSA CREEK

SCALE: H: 1"=10', V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

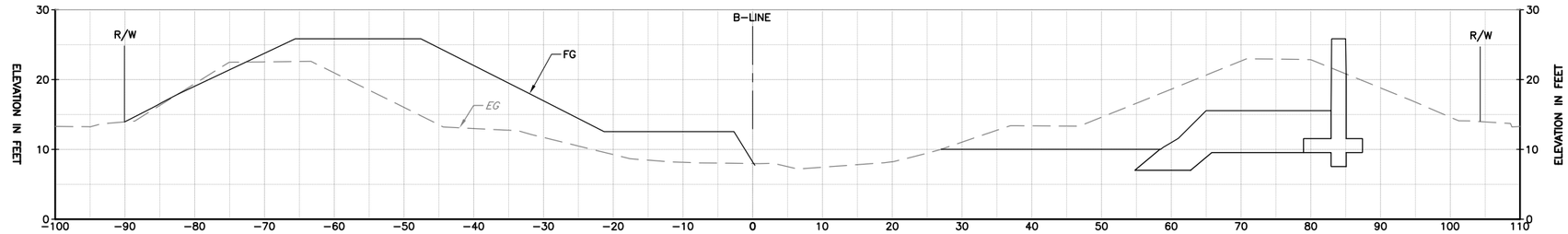
PROJECT NUMBER: 40174004
SHEET CODE: X-24
SHEET NUMBER: 74 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

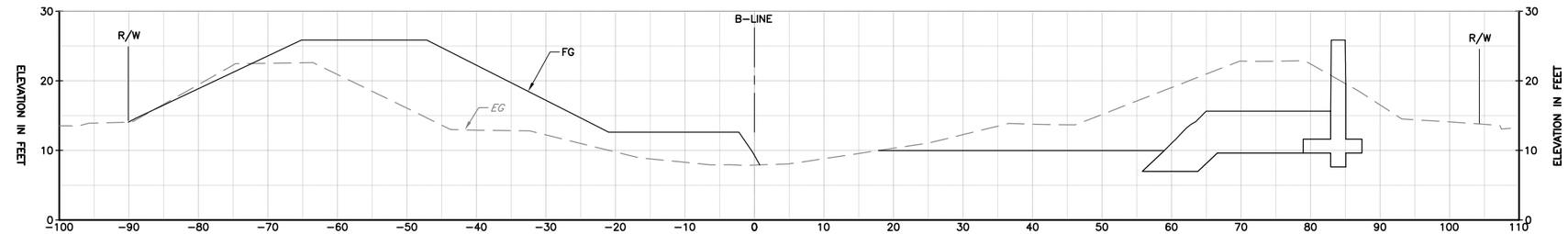
USERNAME: JENNFORD Tue 22 Feb 2011 09:42am
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\X-24



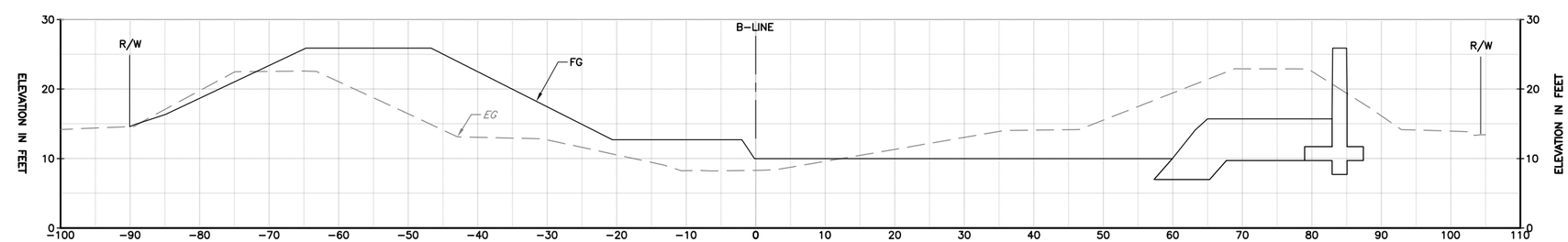
STA 48+00



STA 48+50



STA 49+00



STA 49+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION

REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:

LOWER BERRYESSA CREEK PROJECT

CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'

VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

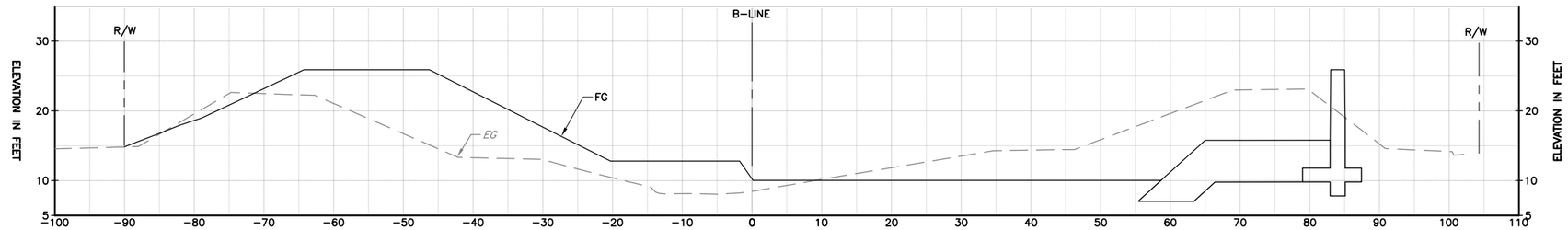
PROJECT NUMBER: 40174004

SHEET CODE: X-25

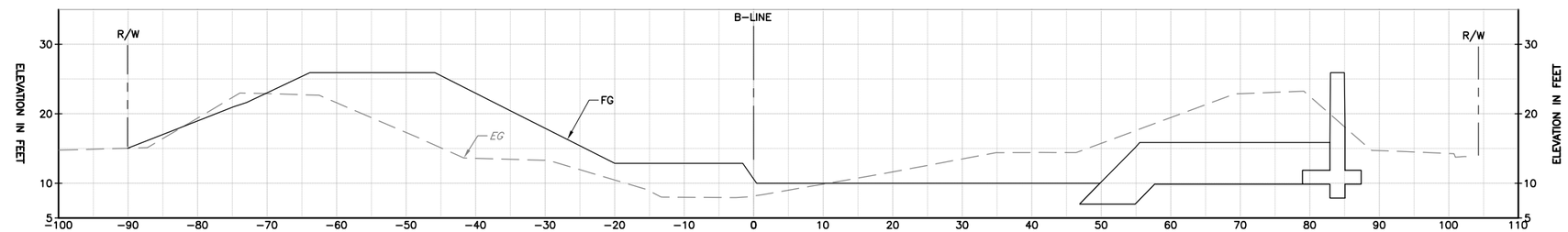
SHEET NUMBER: 75 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

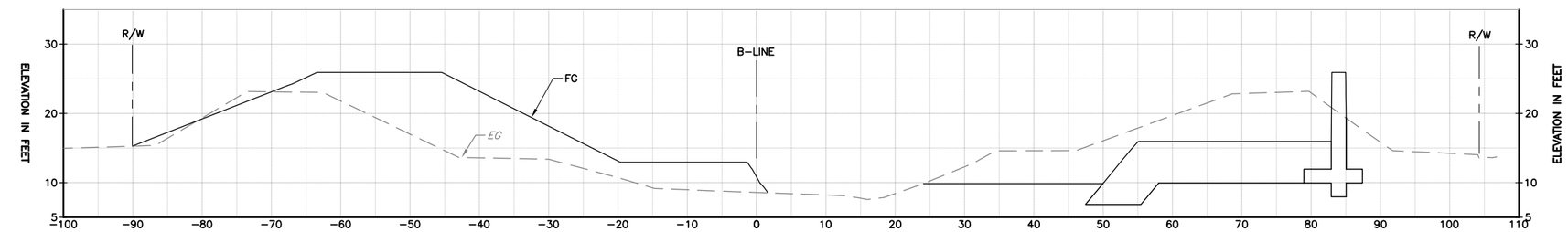
USERNAME: JENNFORD Tue 22 Feb 2011 09:40am
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\X-25



STA 50+00



STA 50+50



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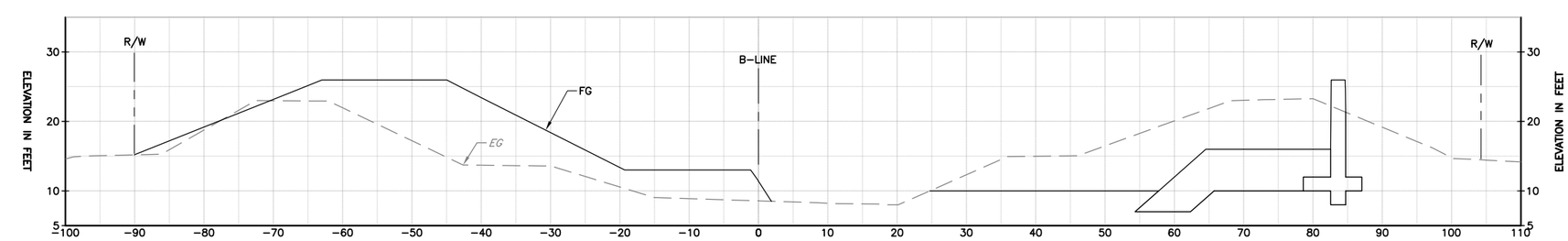


STA 51+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT

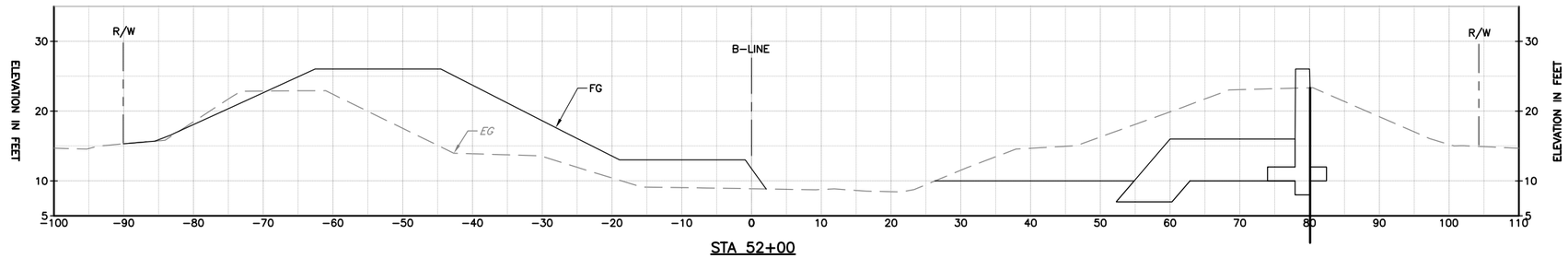
CROSS SECTIONS
BERRYESSA CREEK

SCALE H: 1"=10' V: 1"=10'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

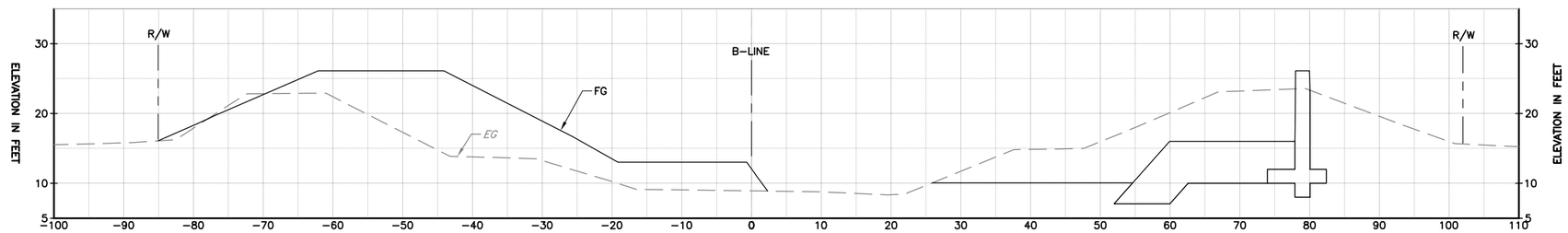
PROJECT NUMBER 40174004
SHEET CODE: X-26
SHEET NUMBER: 76 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

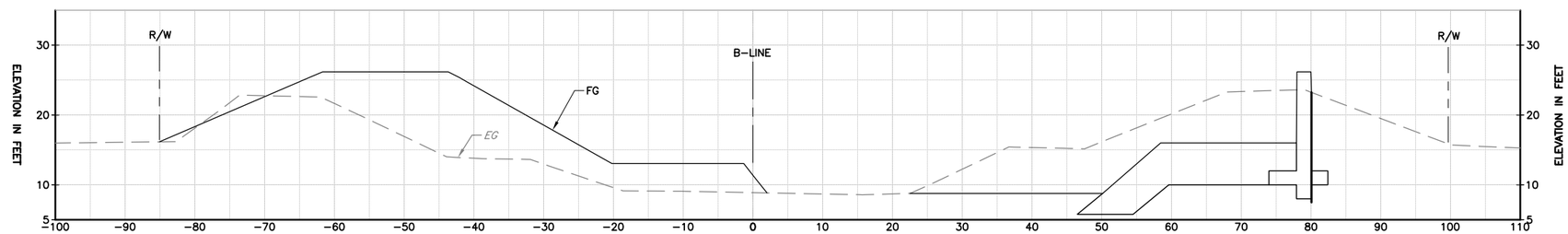
USERNAME: JENNFORD Tue 22 Feb 2011 09:45am
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\X-26



STA 52+00



STA 52+50



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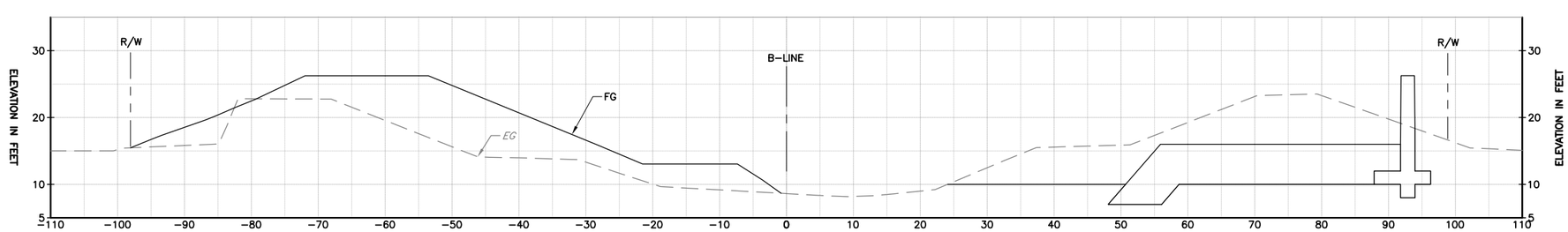

STA 53+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-27
SHEET NUMBER: 77 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:47am
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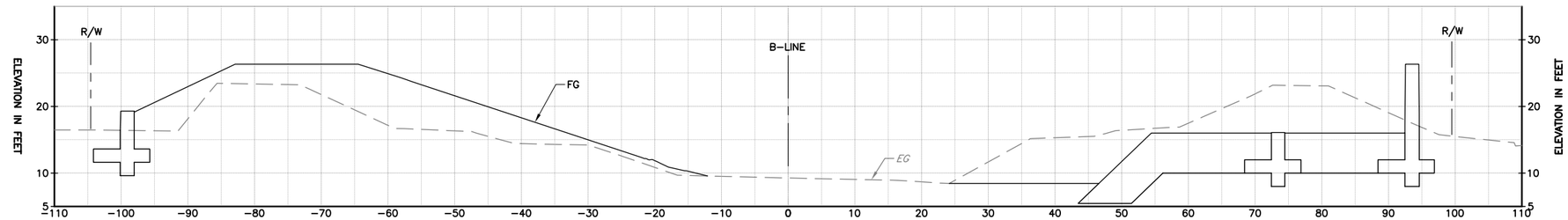
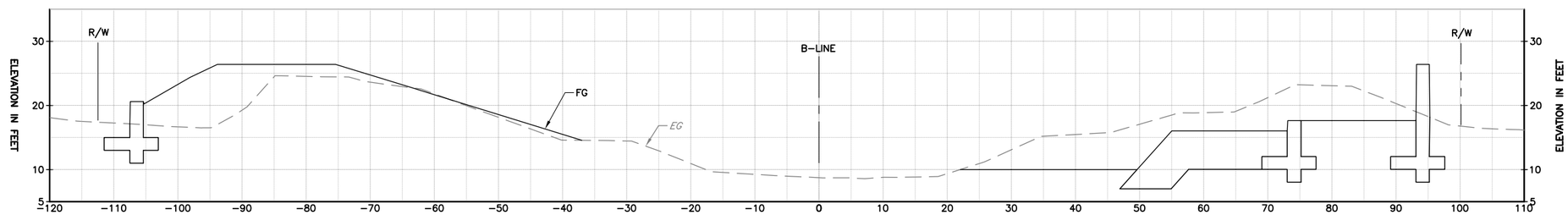


STA 54+00



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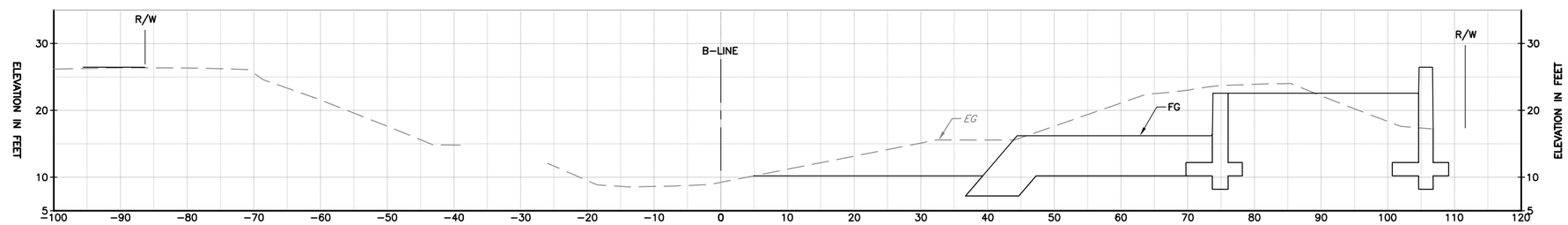
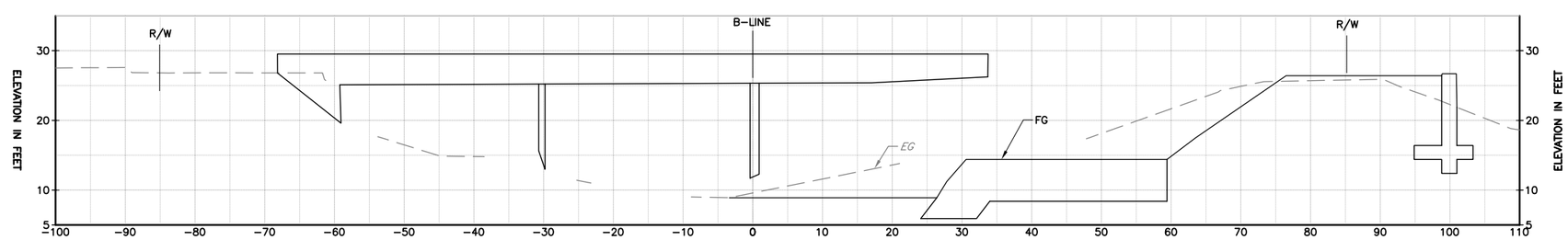


STA 55+00



STA 55+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS
BERRYESSA CREEK

SCALE H: 1"=10' V: 1"=10'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: X-28
SHEET NUMBER: 78 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:49am
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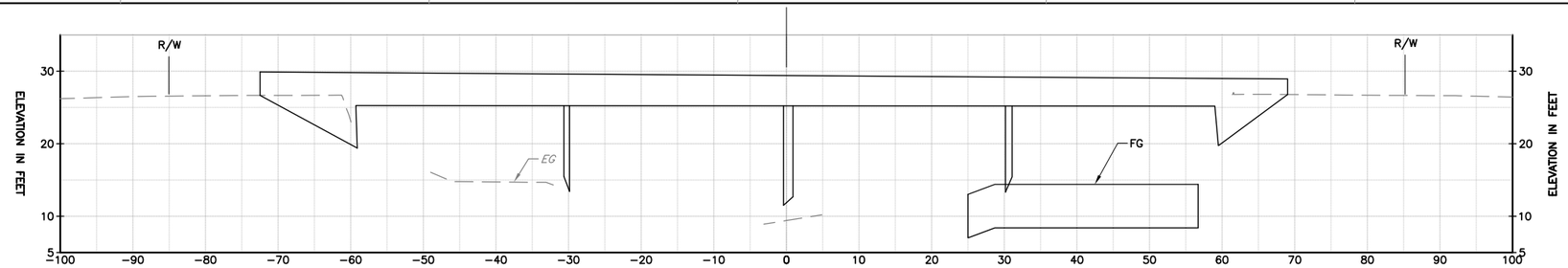
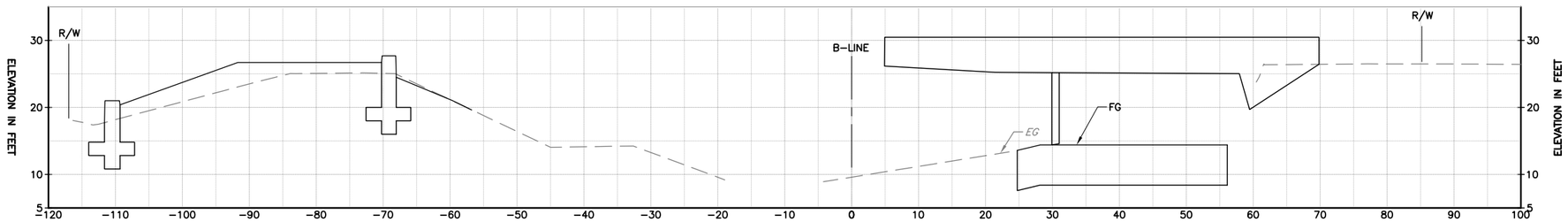
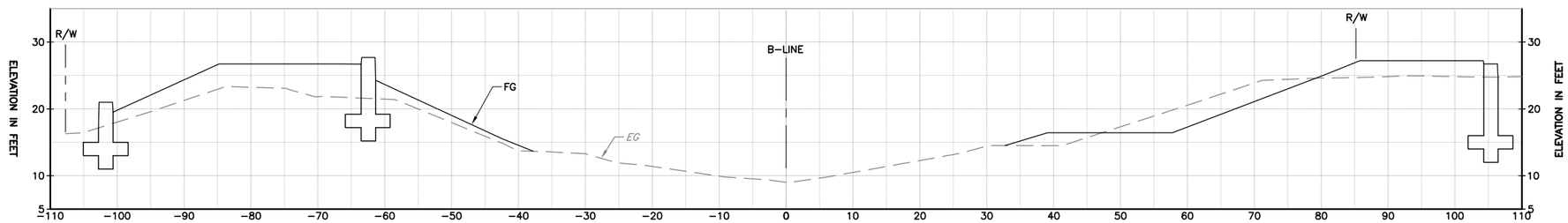


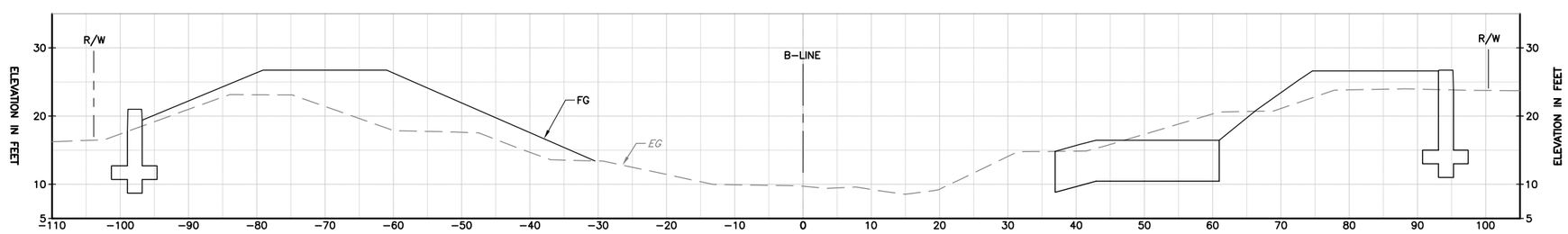
STA 56+00



STA 56+50



STA 57+00



STA 57+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE H: 1"=10' V: 1"=10'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: X-29
SHEET NUMBER: 79 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:51am
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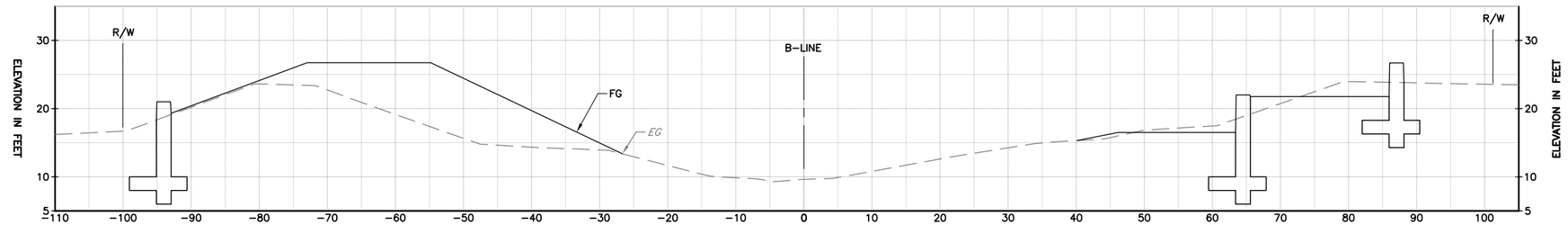

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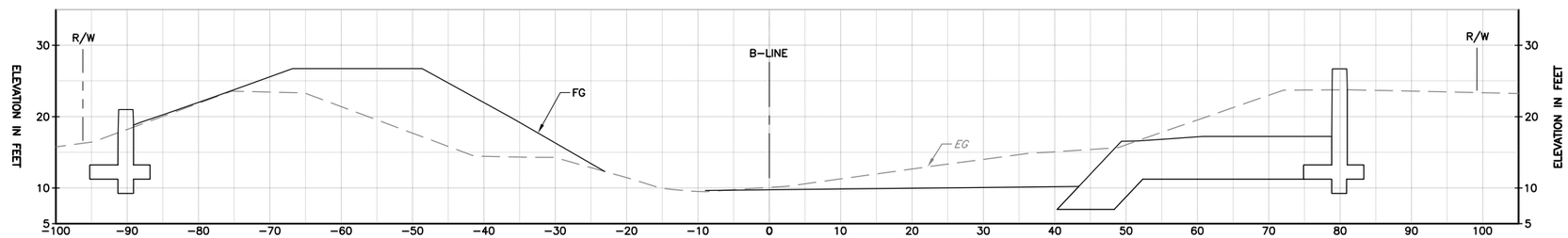

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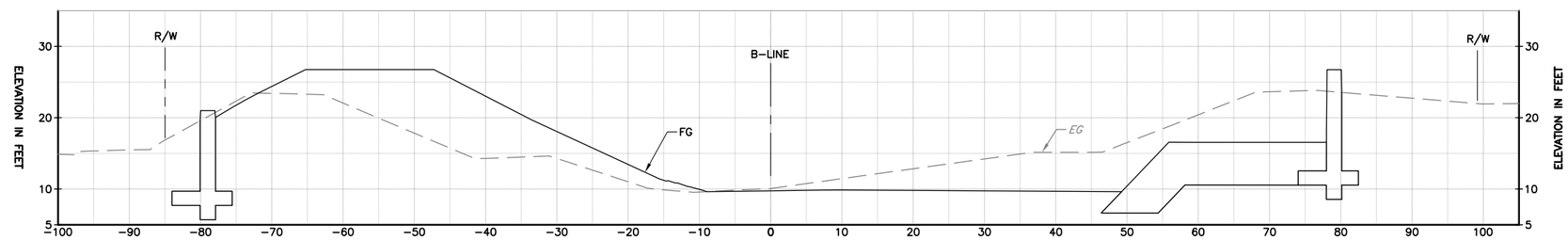

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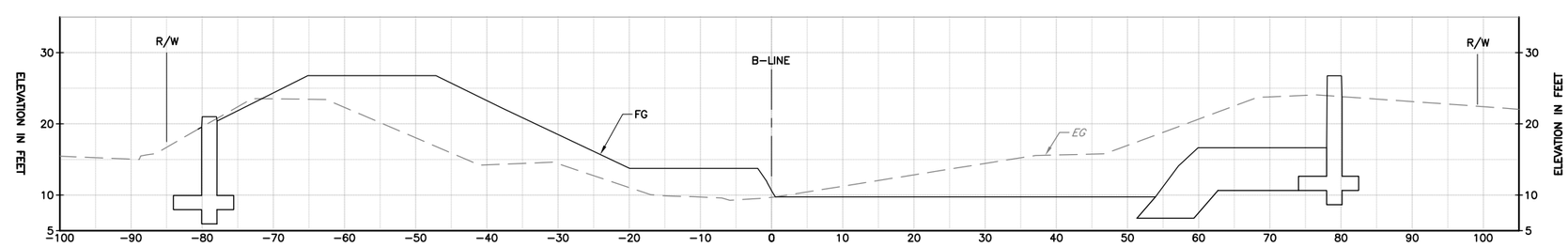

STA 59+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE H: 1"=10' V: 1"=10'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: X-30
SHEET NUMBER: 80 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:53am
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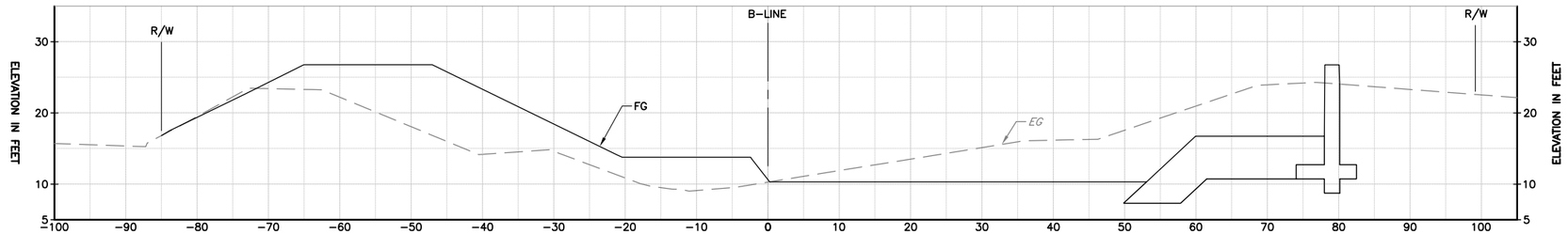
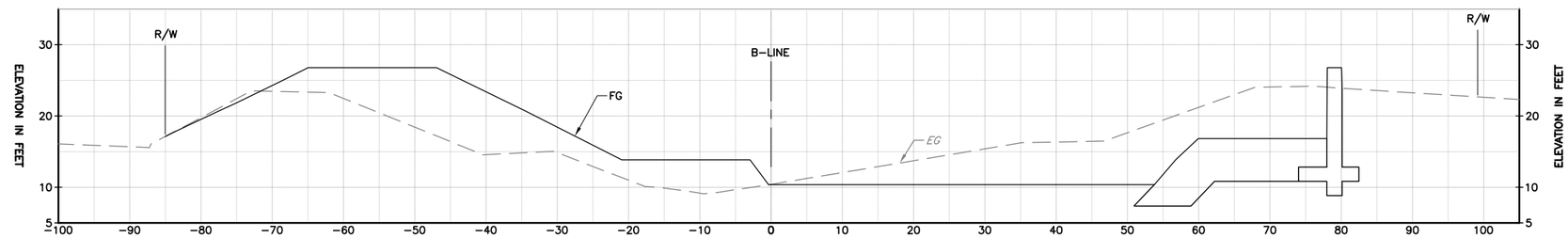
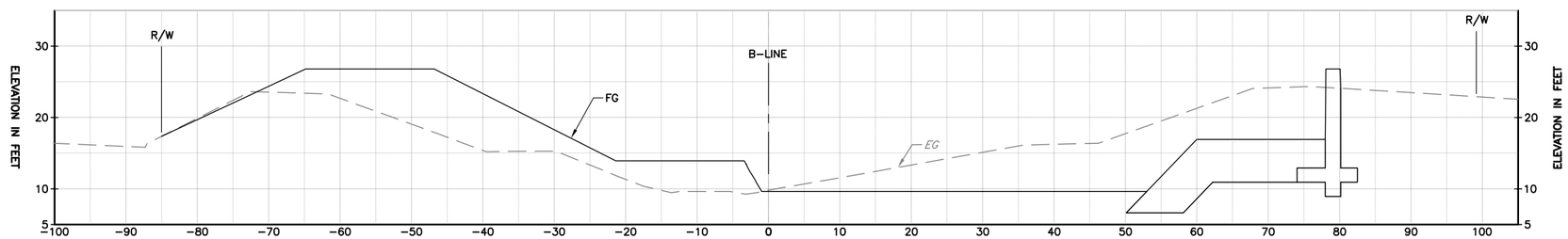


STA 60+00



STA 60+50



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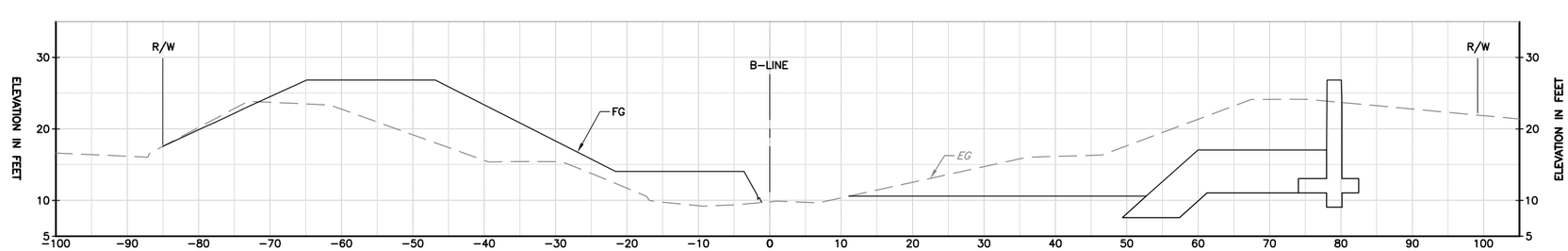

STA 61+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-31
SHEET NUMBER: 81 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:56am
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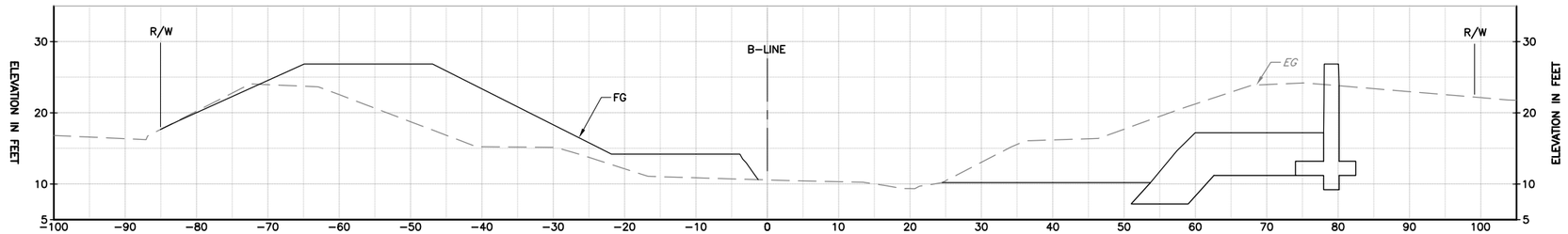
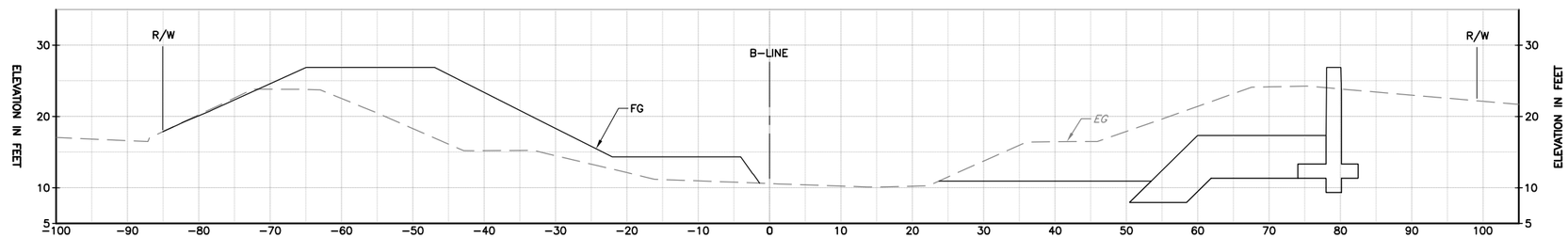


STA 62+00



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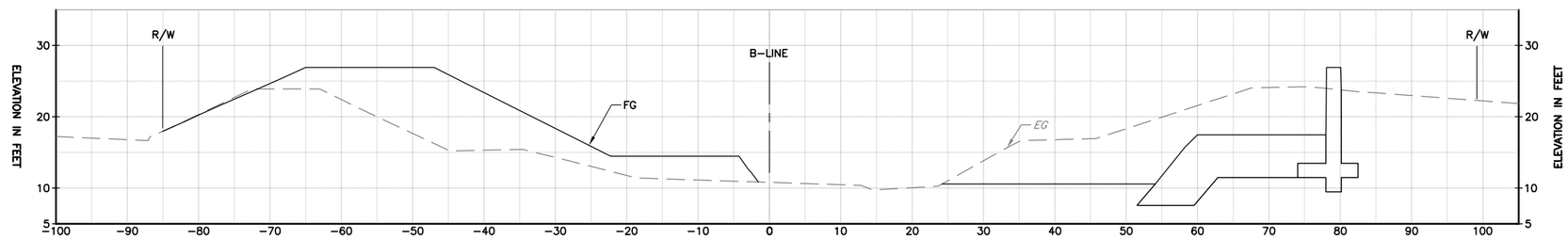

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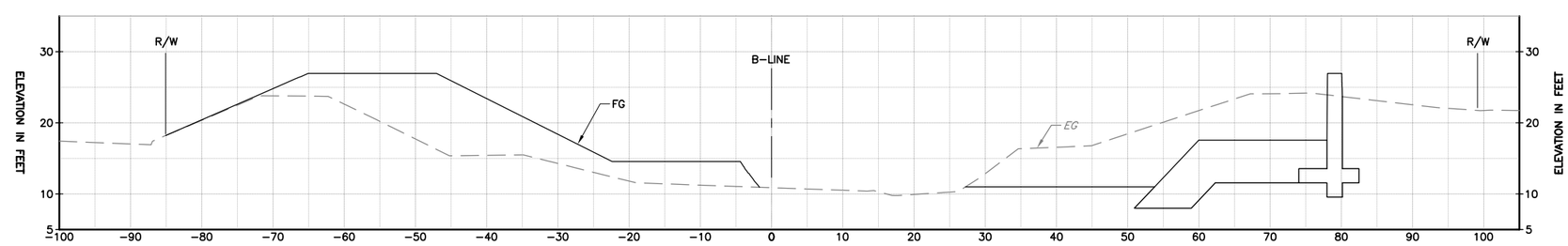

STA 63+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS
BERRYESSA CREEK

SCALE H: 1"=10' V: 1"=10'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: X-32
SHEET NUMBER: 82 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 09:59am
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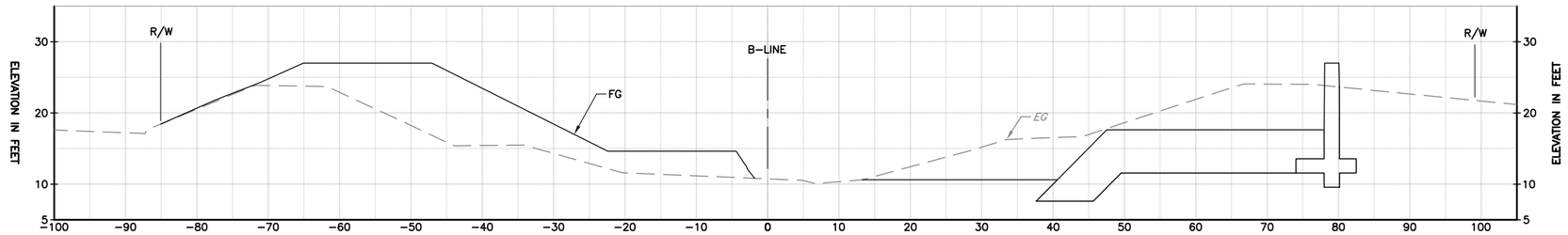

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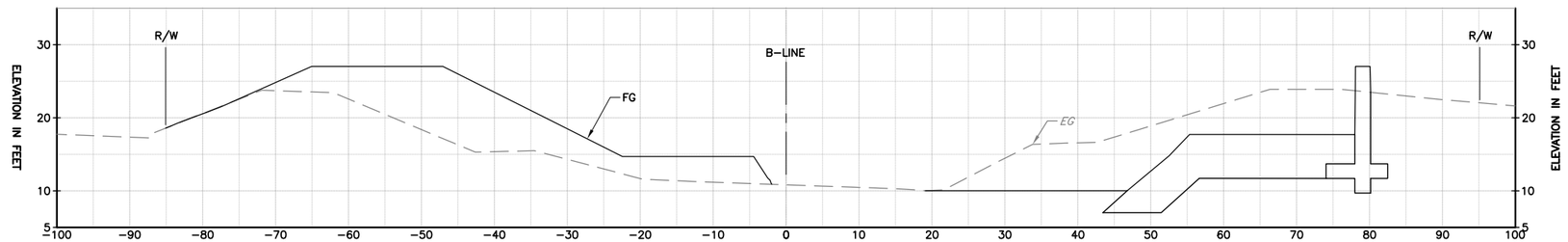

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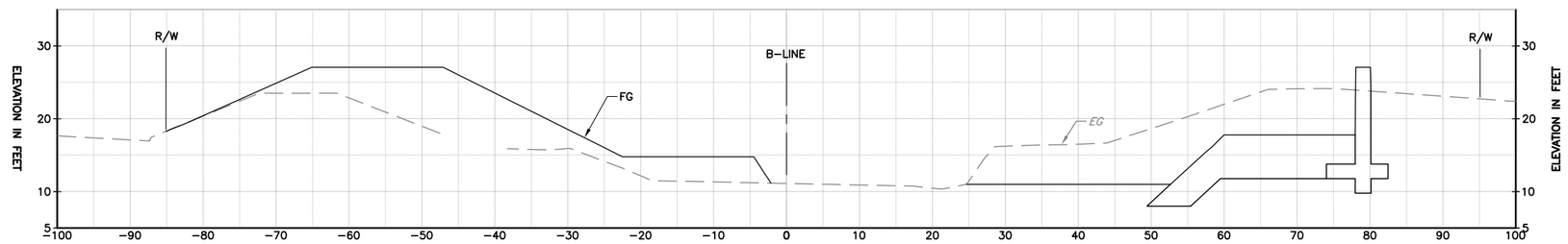
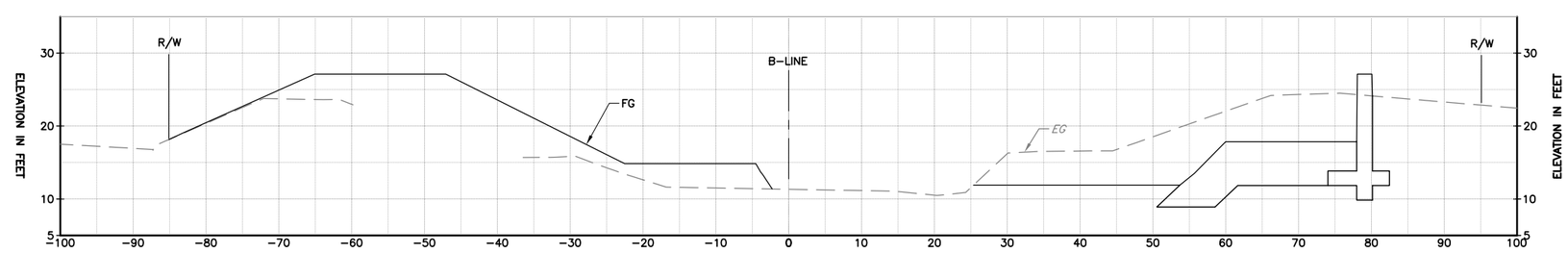


STA 65+00



STA 65+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE H: 1"=10' V: 1"=10'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: X-33
SHEET NUMBER: 83 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 10:01am
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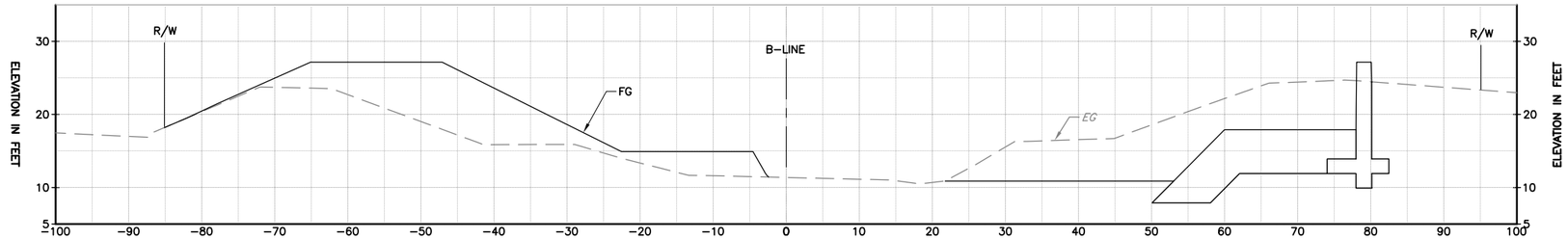
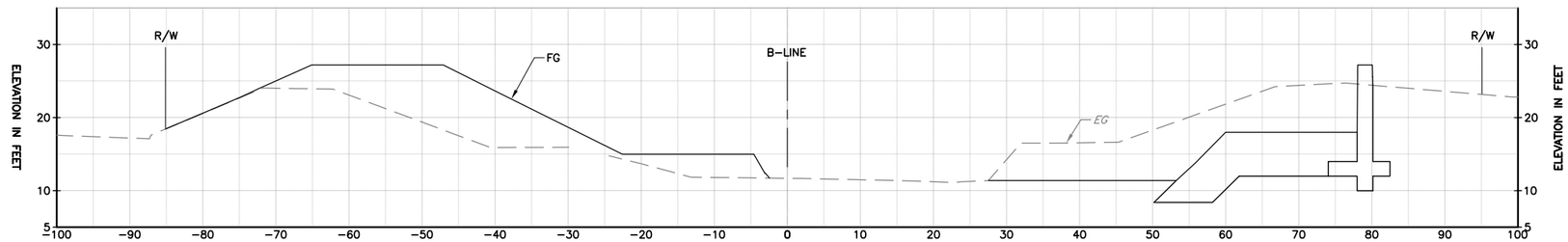


STA 66+00



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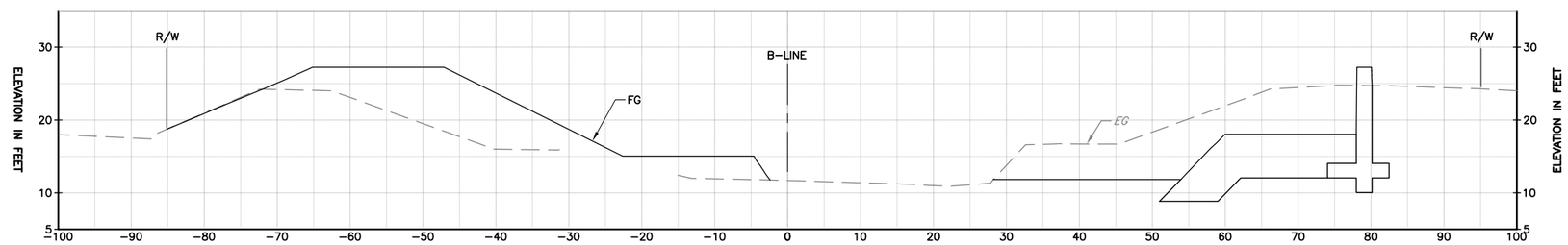
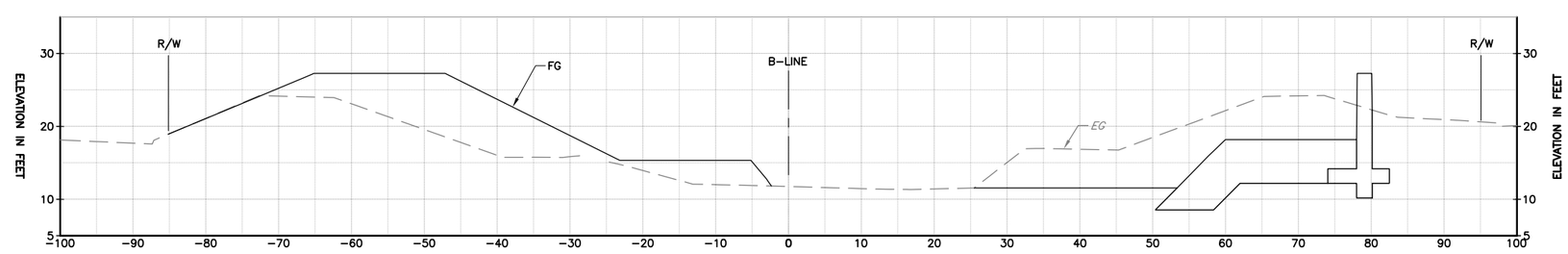


STA 67+00



STA 67+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE H: 1"=10' V: 1"=10'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: X-34
SHEET NUMBER: 84 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 10:23am
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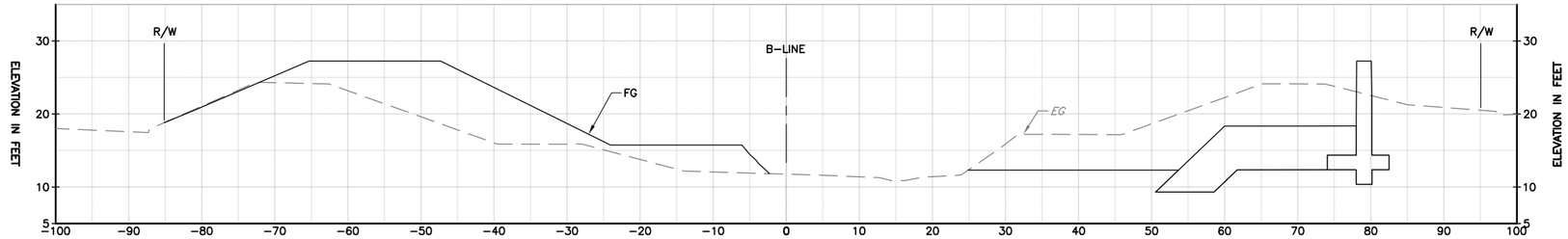
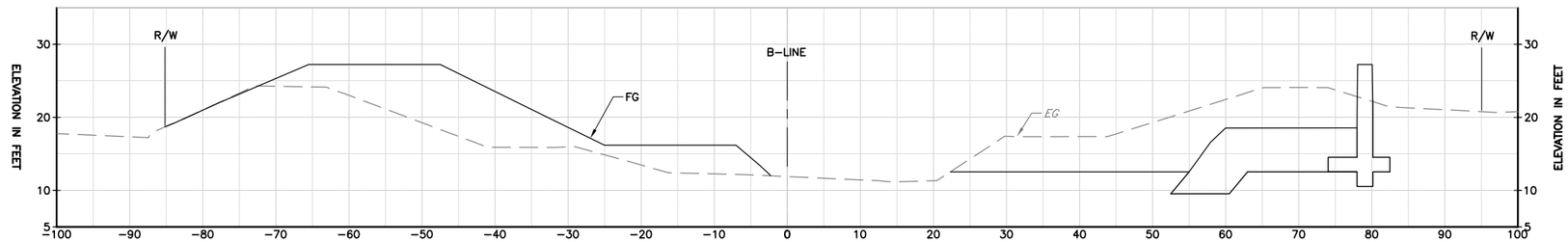


STA 68+00



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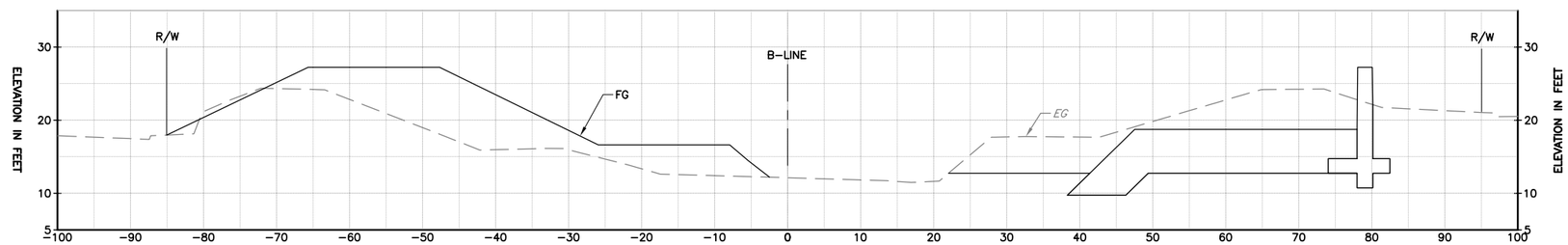
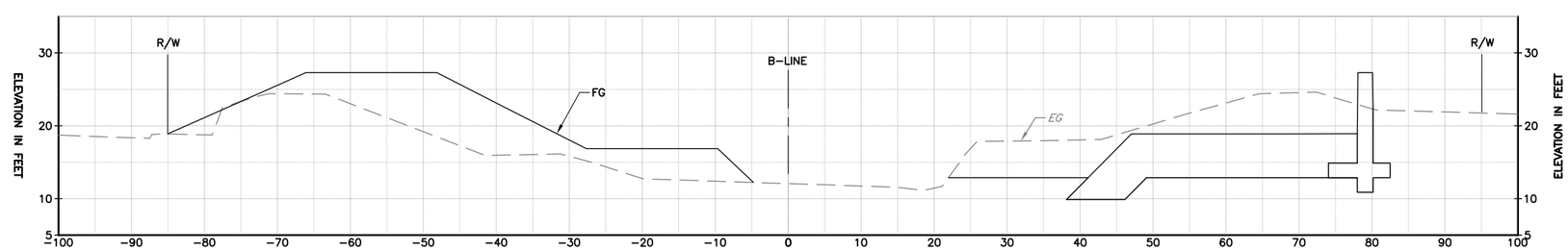


STA 69+00



STA 69+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

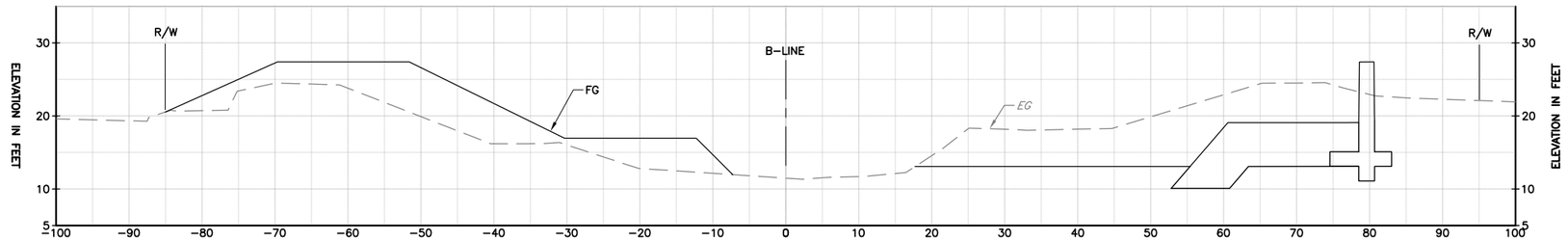
PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE H: 1"=10' V: 1"=10'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

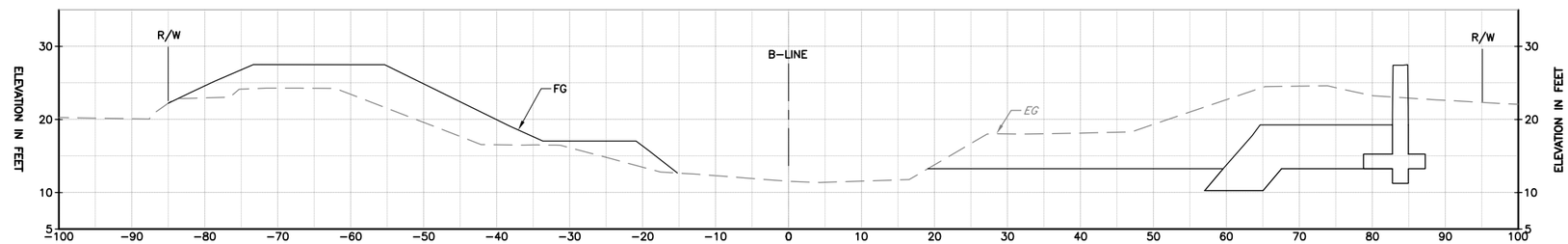
PROJECT NUMBER 40174004
SHEET CODE: X-35
SHEET NUMBER: 85 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 10:25am
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\X-35



STA 70+00



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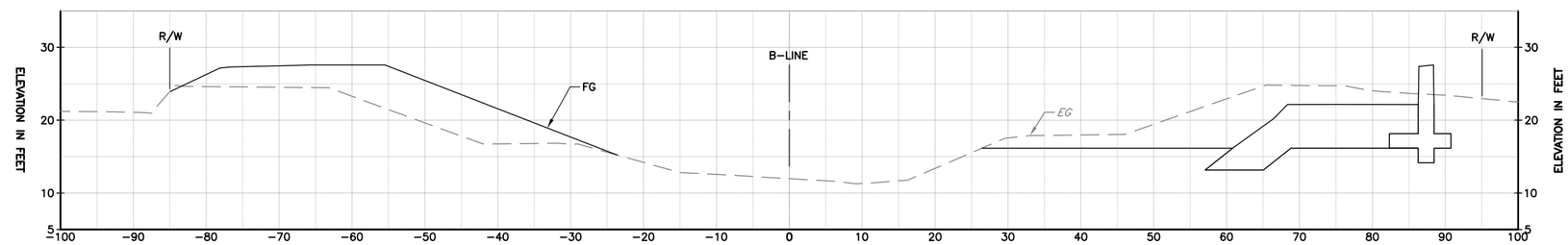

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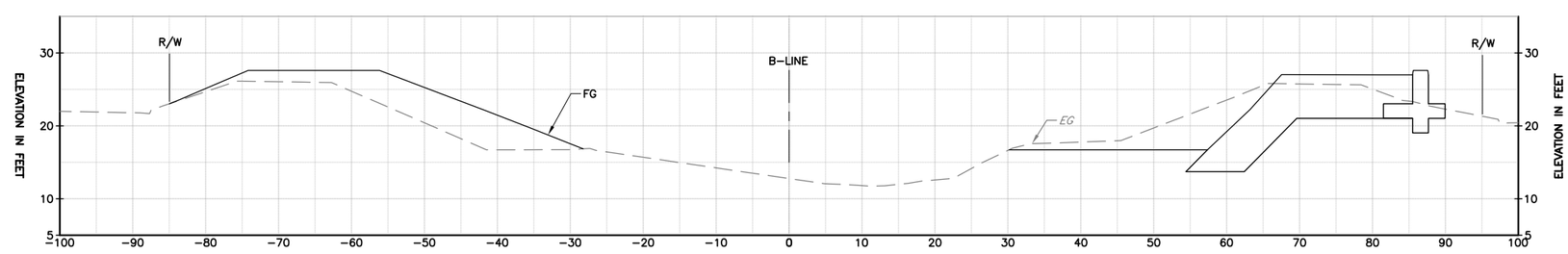


STA 71+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

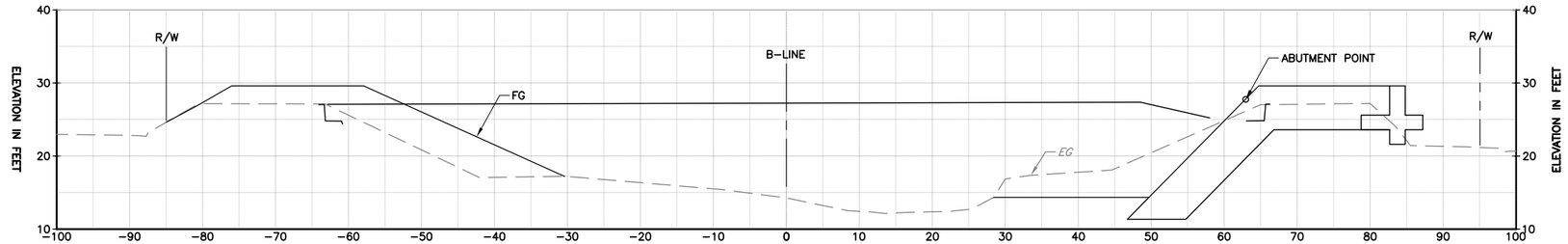
PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS
BERRYESSA CREEK

SCALE H: 1"=10' V: 1"=10'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

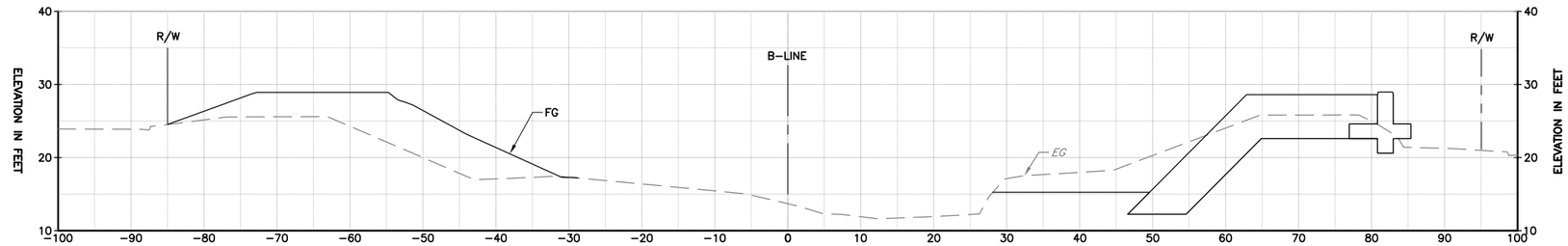
PROJECT NUMBER 40174004
SHEET CODE: X-36
SHEET NUMBER: 86 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 10:27am
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\X-36



STA 72+00



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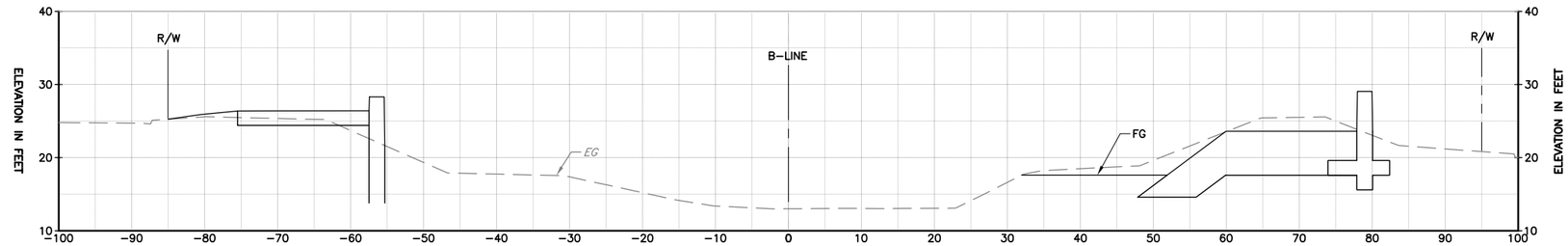

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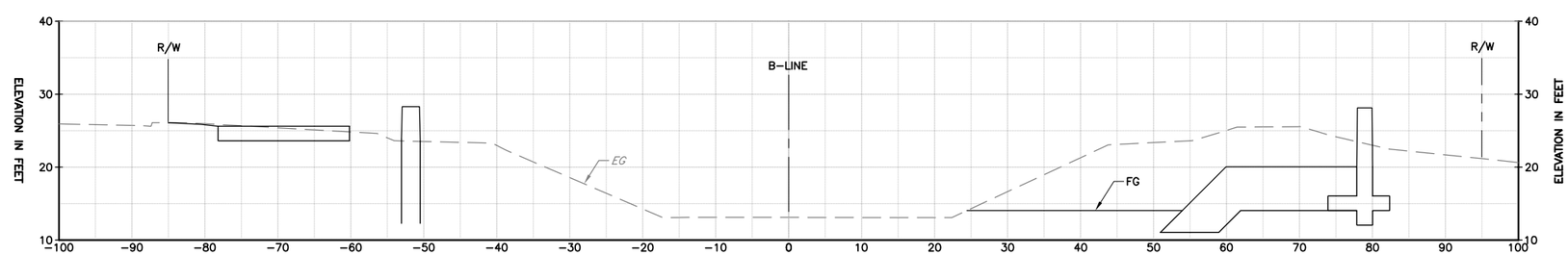

STA 73+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-37
SHEET NUMBER: 87 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 10:29am
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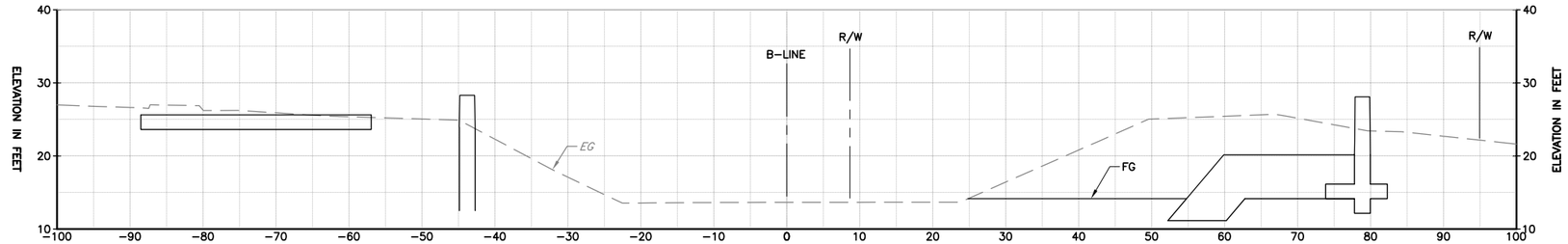

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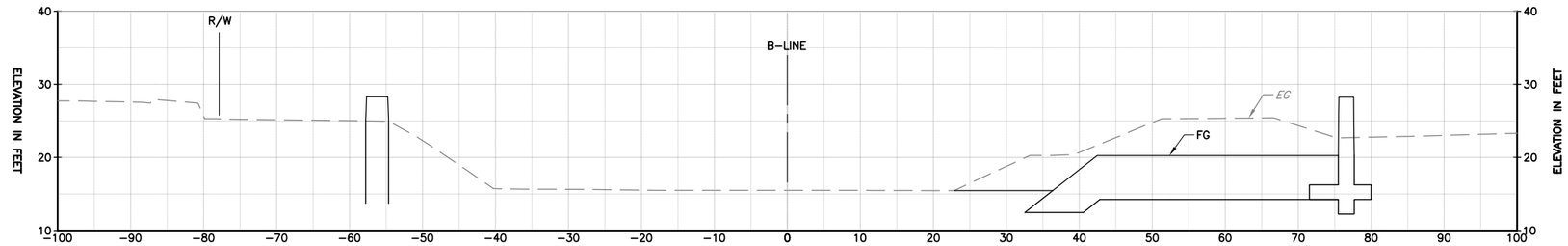

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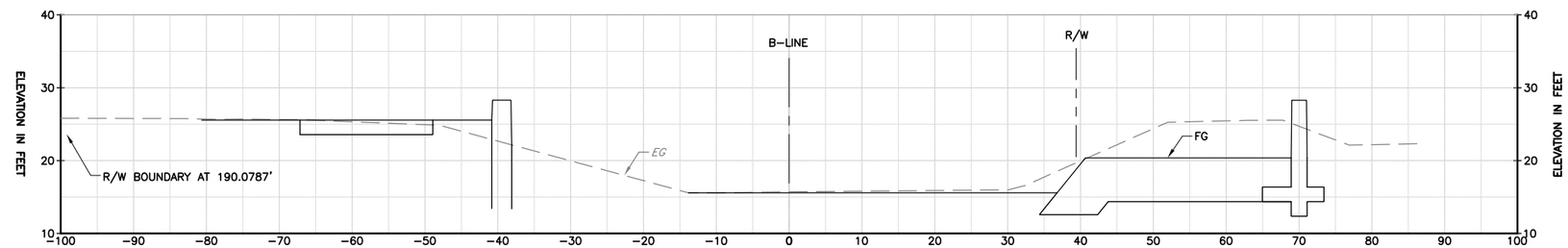

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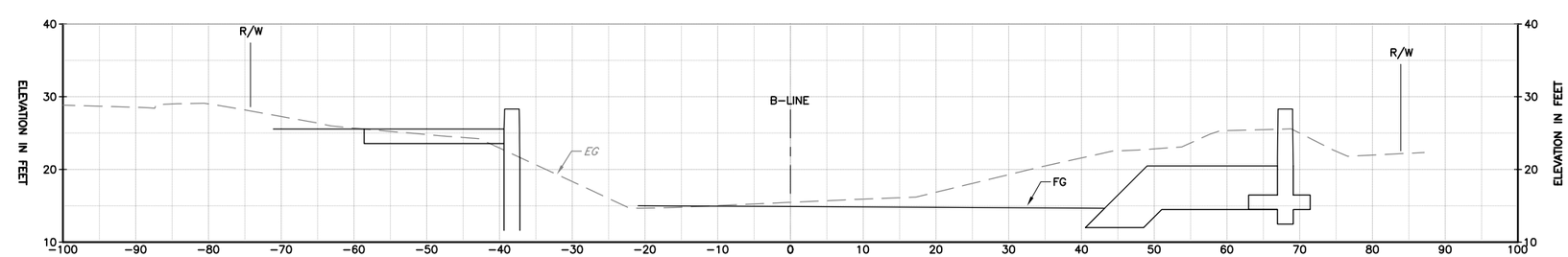

STA 75+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10', V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-38
SHEET NUMBER: 88 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 10:32am
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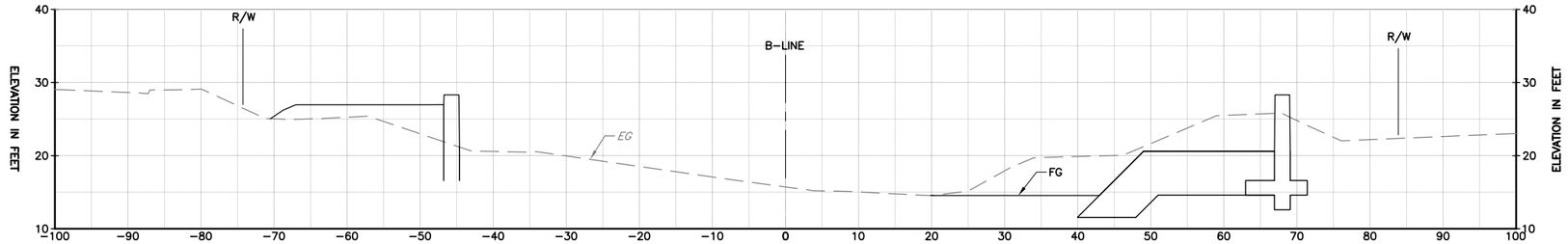
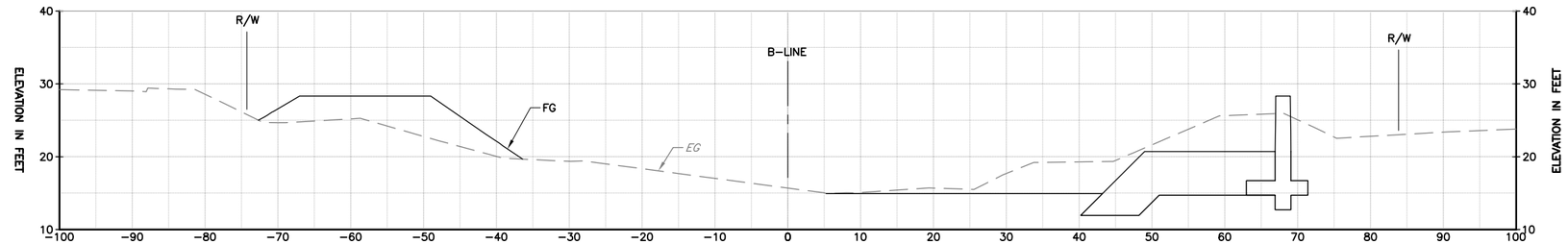


STA 76+00



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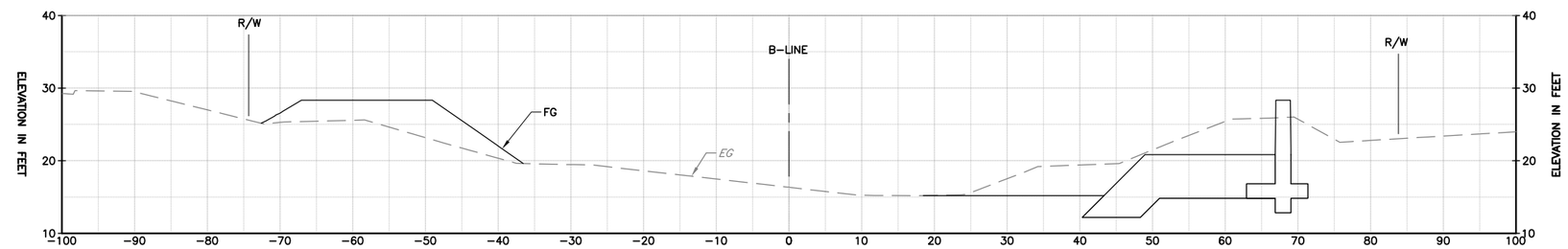

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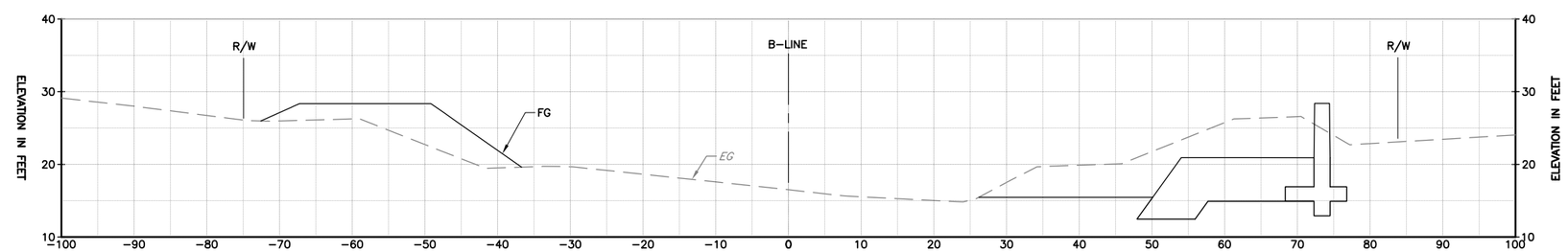


STA 77+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

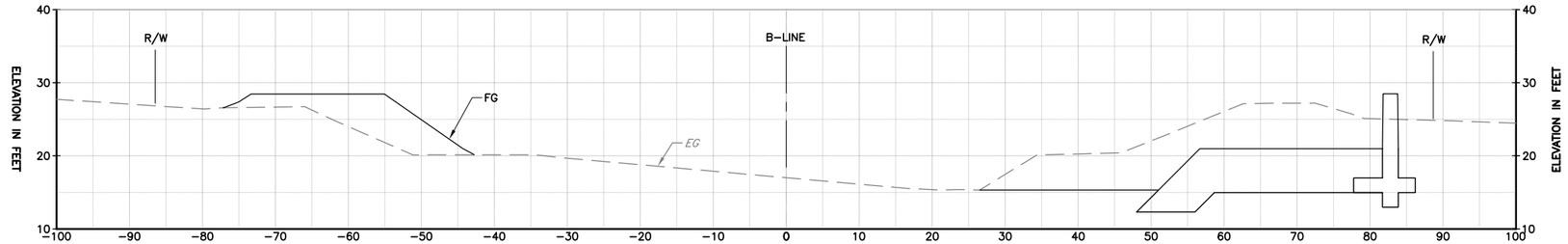
PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS
BERRYESSA CREEK

SCALE H: 1"=10' V: 1"=10'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: X-39
SHEET NUMBER: 89 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 10:35am
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\X-39



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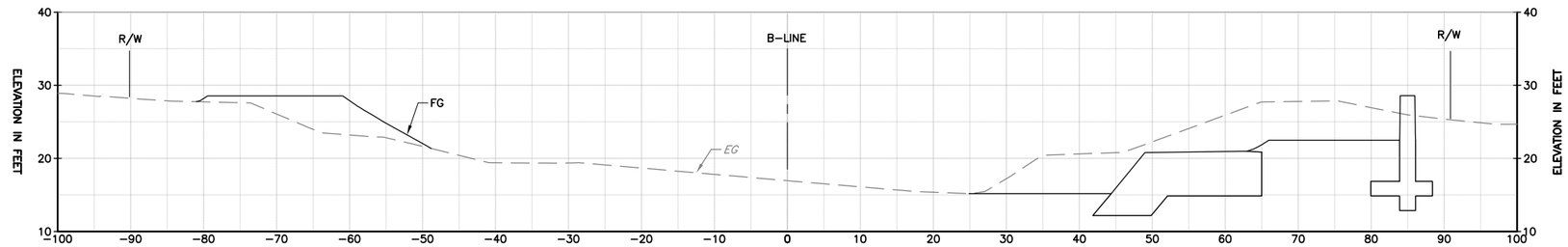

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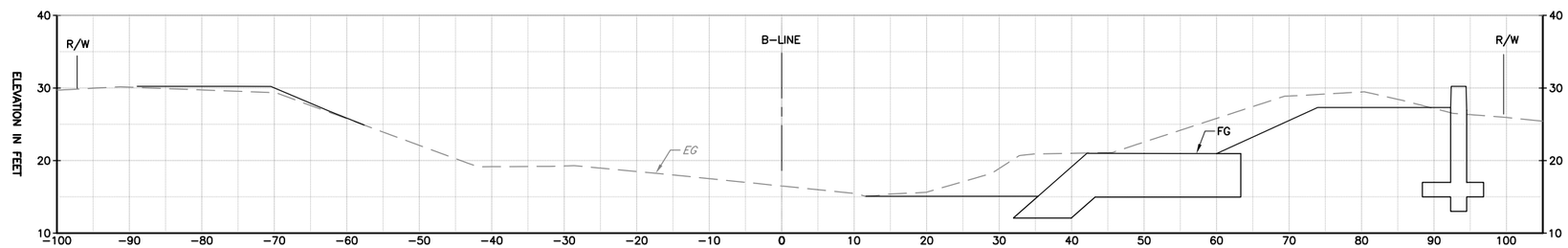

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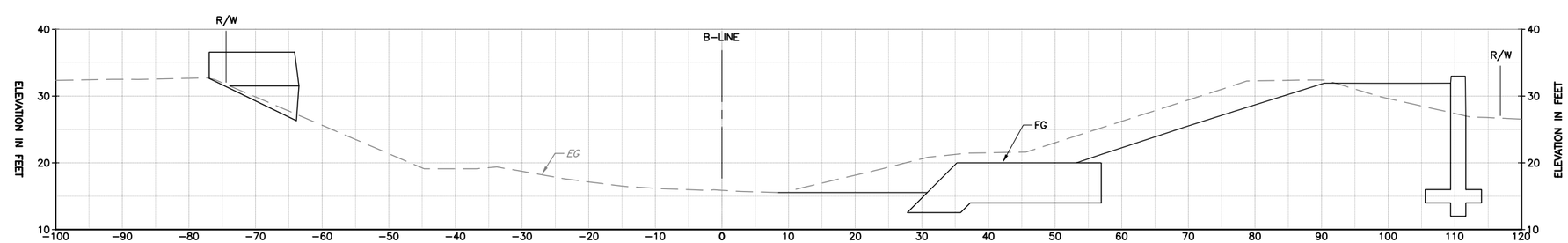

STA 79+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-40
SHEET NUMBER: 90 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 10:37am
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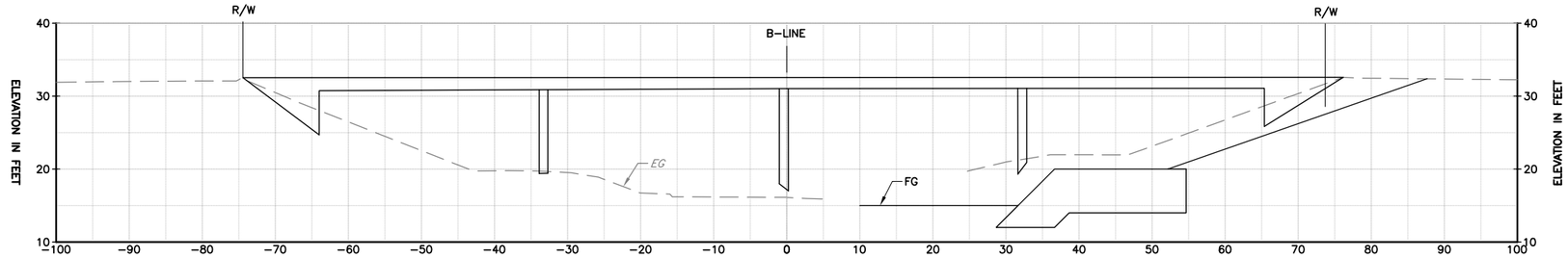
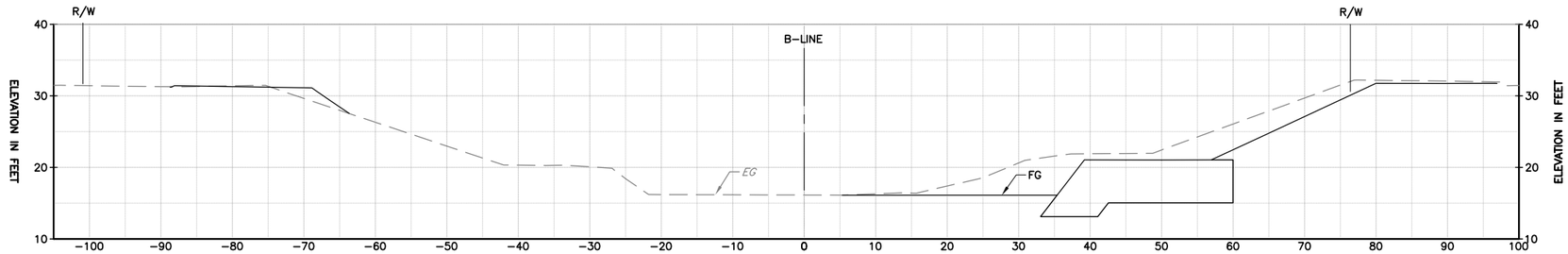


STA 80+00



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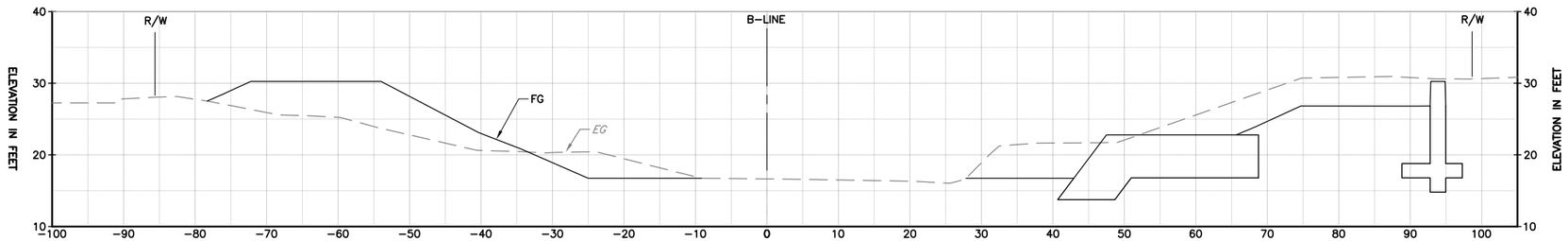

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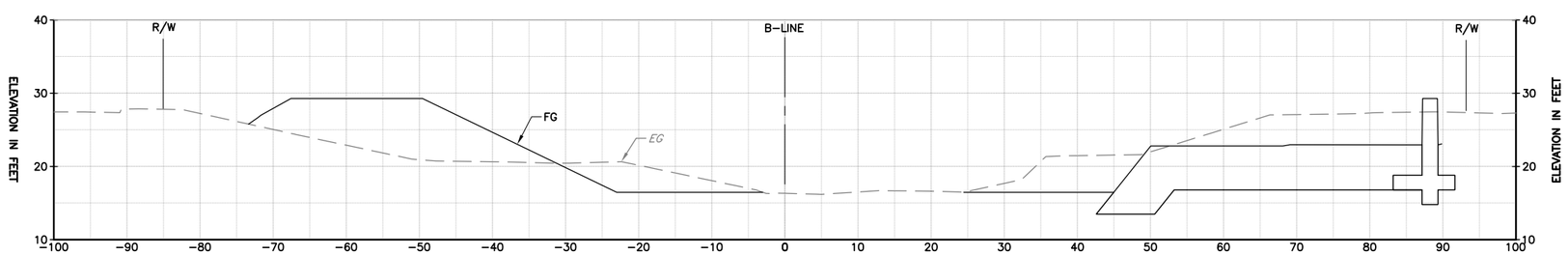

STA 81+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-41
SHEET NUMBER: 91 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 10:39am
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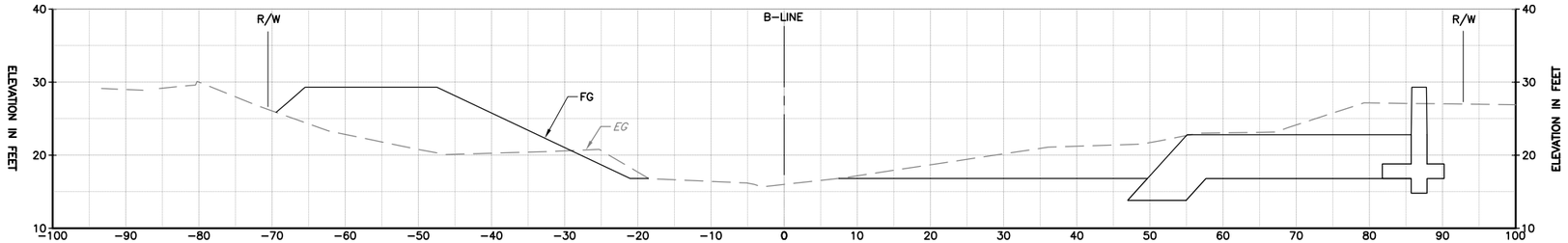
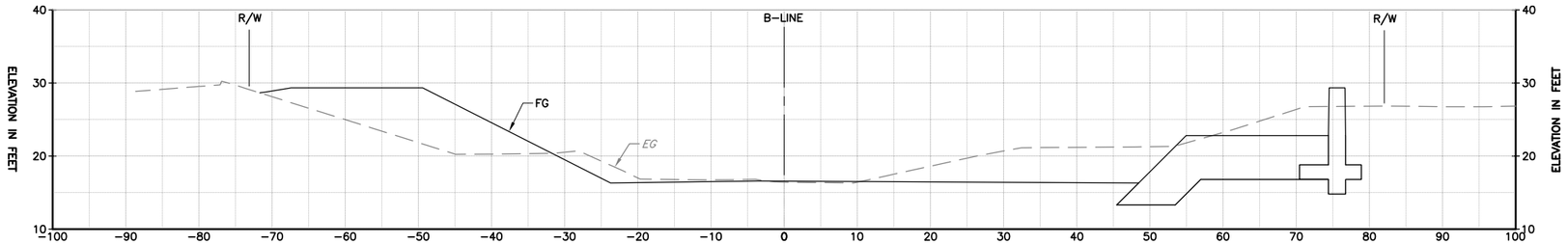
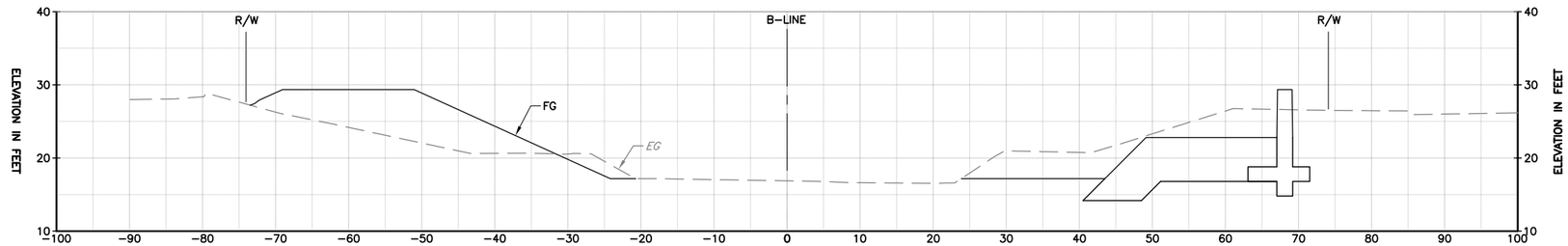


STA 82+00



STA 82+50



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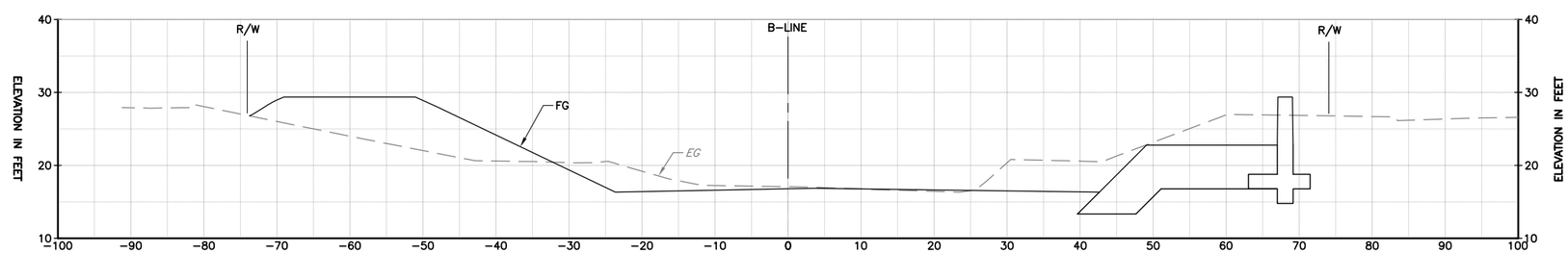


STA 83+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

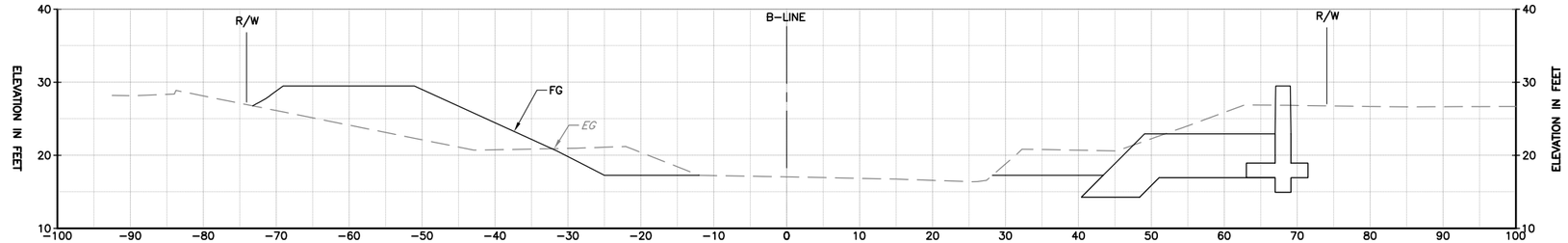
PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-42
SHEET NUMBER: 92 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 10:42am
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\X-42



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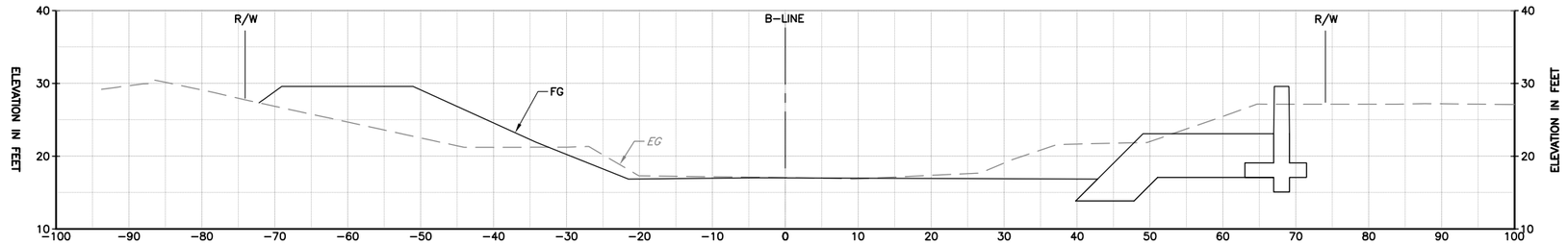

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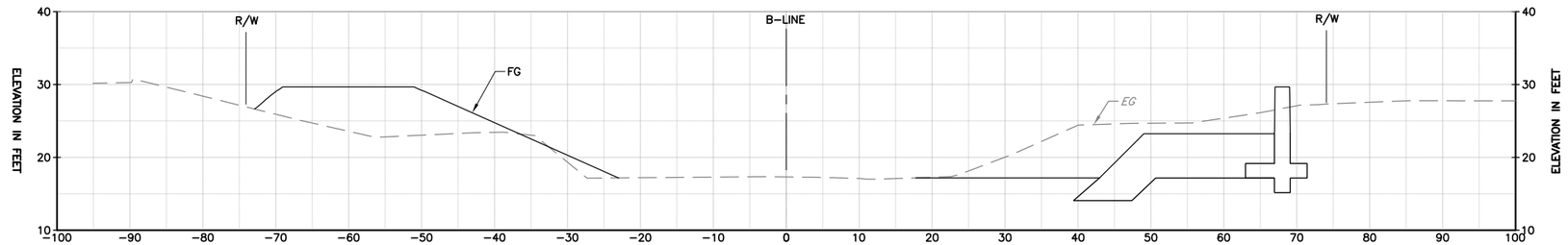

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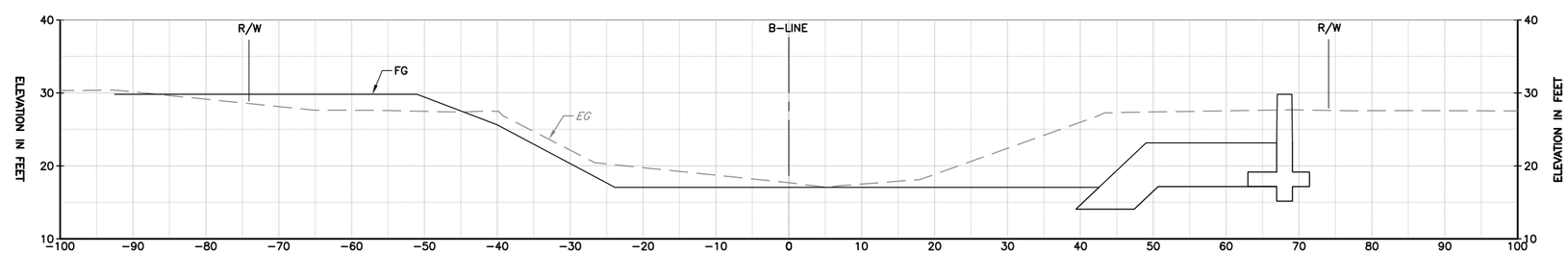

STA 85+50

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE: FEB 2011
DESIGN: B. TAN
DRAWN: J. FORD
CHECKED: T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT

CROSS SECTIONS
BERRYESSA CREEK

SCALE: H: 1"=10' V: 1"=10'
VERIFY SCALES: 0 1" BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER: 40174004
SHEET CODE: X-43
SHEET NUMBER: 93 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 10:45am
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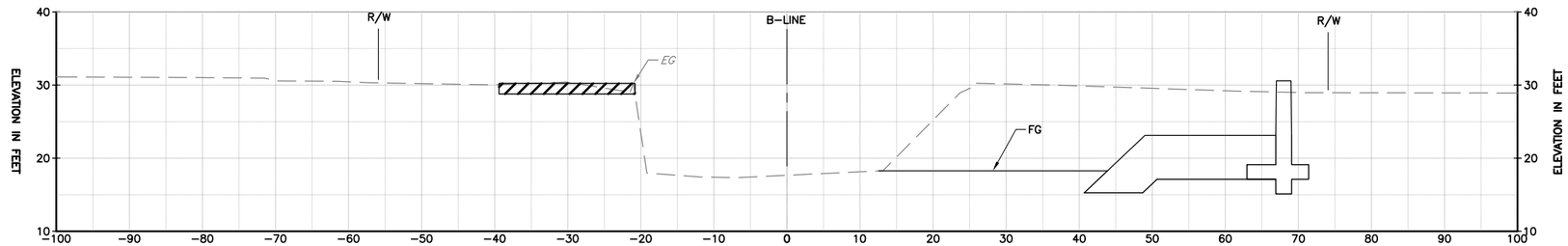

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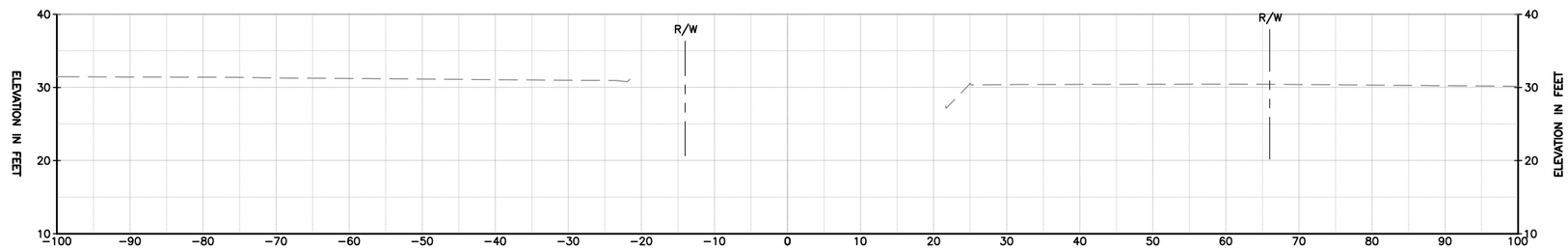

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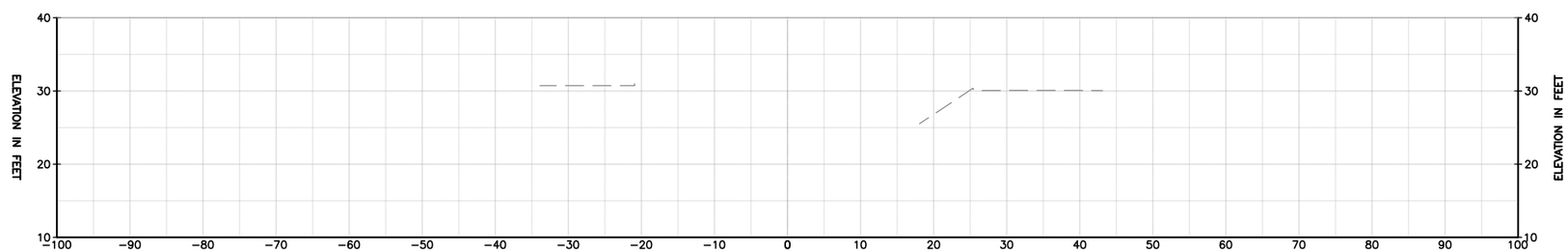

STA 87+00

ALL CROSS SECTIONS ARE SHOWN LOOKING UPSTREAM

REV	DESCRIPTION	DATE	APPR.	REFERENCE INFORMATION AND NOTES
	60% PRELIMINARY 02-22-11			

DATE FEB 2011
DESIGN B. TAN
DRAWN J. FORD
CHECKED T. NDAH

ENGINEERING CERTIFICATION
REGISTERED PROFESSIONAL ENGINEER TONY TEGHEN NDAH No. C67634 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE

Santa Clara Valley Water District

PROJECT NAME AND SHEET DESCRIPTION:
LOWER BERRYESSA CREEK PROJECT
CROSS SECTIONS BERRYESSA CREEK

SCALE H: 1"=10' V: 1"=10'
VERIFY SCALES 0 1"
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PROJECT NUMBER 40174004
SHEET CODE: X-44
SHEET NUMBER: 94 OF 94

DOCUMENT NUMBER: BER_CY-X-4017-XXXXX

USERNAME: JENNFORD Tue 22 Feb 2011 10:47am
FILENAME: K:\Active Projects\MP-40174004\Lower Berryessa Creek Project\Sheet\X-44