



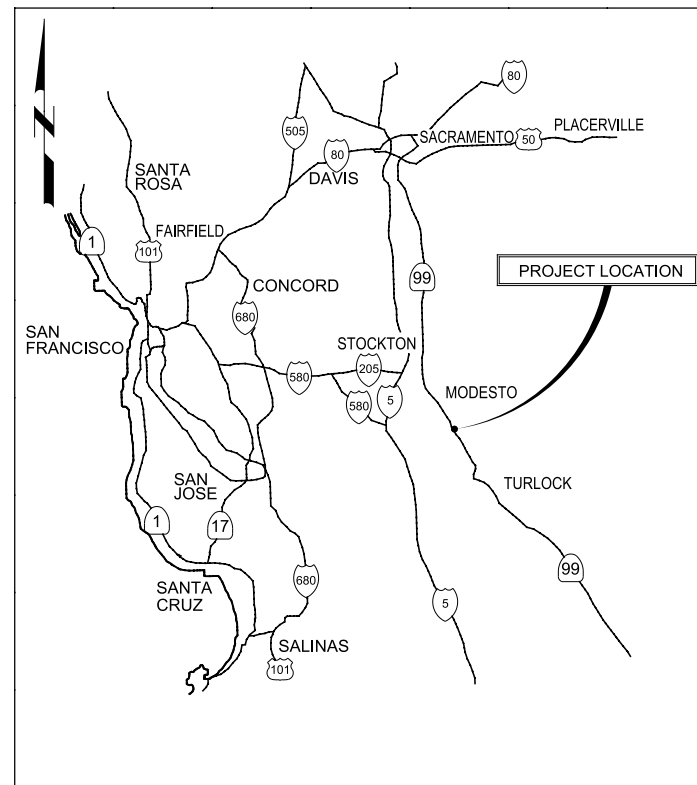
CITY OF MODESTO

# RIVER TRUNK REALIGNMENT, BEARD BROOK SIPHON, AND CANNERY SEGREGATION LINE IMPROVEMENT PROJECT

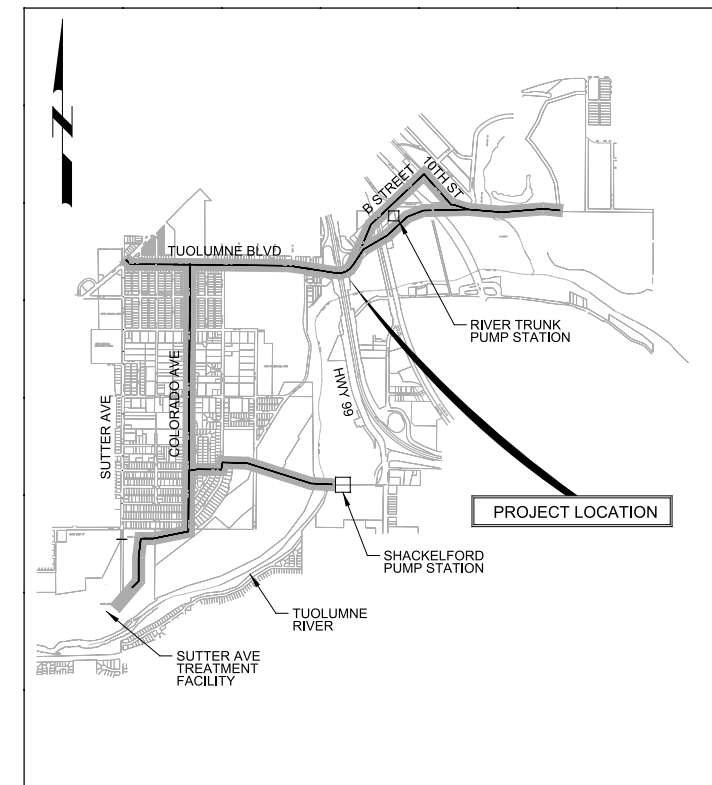
35% DESIGN DRAWINGS  
NOT FOR CONSTRUCTION

VOLUME 2 OF 2

MARCH 2015



VICINITY MAP



LOCATION MAP



JOB NO. 9551A.00
DRAWING NO. <b>G01</b>
SHEET NO. 1 OF XX

# INDEX OF SHEETS

## DRAWINGS VOLUME 1 OF 1

### GENERAL

- 00 G 01 COVER SHEET
- 00 G 02 SHEET INDEX AND SHEET LAYOUT
- 00 G 03 ABBREVIATIONS, NOTES, AND DESIGN CRITERIA

### PLAN AND PROFILE

#### ALIGNMENT A - COLORADO AND NEECE TO THE SUTTER PRIMARY TREATMENT FACILITY

- 00 P 01 PLAN AND PROFILE - ALIGNMENT A / STA A10+00 TO A19+00
- 00 P 02 PLAN AND PROFILE - ALIGNMENT A / STA A19+00 TO A29+00
- 00 P 03 PLAN AND PROFILE - ALIGNMENT A / STA A29+00 TO A39+00
- 00 P 04 PLAN AND PROFILE - ALIGNMENT A / STA A39+00 TO A49+00
- 00 P 05 PLAN AND PROFILE - ALIGNMENT A / STA A49+00 TO A59+00
- 00 P 06 PLAN AND PROFILE - ALIGNMENT A / STA A59+00 TO A69+00
- 00 P 07 PLAN AND PROFILE - ALIGNMENT A / STA A69+00 TO A79+00
- 00 P 08 PLAN AND PROFILE - ALIGNMENT A / STA A79+00 TO A89+00
- 00 P 09 PLAN AND PROFILE - ALIGNMENT A / STA A89+00 TO A99+00
- 00 P 10 PLAN AND PROFILE - ALIGNMENT A / STA A99+00 TO A106+63.86

#### ALIGNMENT B - TUOLUMNE BLVD: PARADISE ROAD TO COLORADO AVE

- 00 P 11 PLAN AND PROFILE - ALIGNMENT B / STA B10+00 TO B19+00
- 00 P 12 PLAN AND PROFILE - ALIGNMENT B / STA B19+00 TO B22+92.30

#### ALIGNMENT C - RIVER TRUNK FORCE MAINS: RTPS TO TUOLUMNE BLVD

- 00 P 13 PLAN AND PROFILE - ALIGNMENT C / STA C10+00 TO C19+00
- 00 P 14 PLAN AND PROFILE - ALIGNMENT C / STA C19+00 TO C29+00
- 00 P 15 PLAN AND PROFILE - ALIGNMENT C / STA C29+00 TO C36+10.66

#### ALIGNMENT D - DRY CREEK CROSSING TO RTPS

- 00 P 16 PLAN AND PROFILE - ALIGNMENT D / STA D10+00 TO D19+00
- 00 P 17 PLAN AND PROFILE - ALIGNMENT D / STA D19+00 TO D25+30

#### ALIGNMENT E - B ST: CALAVERAS AVE TO 12TH ST

- 00 P 18 PLAN AND PROFILE - ALIGNMENT E / STA E10+00 TO E19+00
- 00 P 19 PLAN AND PROFILE - ALIGNMENT E / STA E19+00 TO E24+94.25

#### ALIGNMENT F - SHACKELFORD PS TO PELTON AVE

- 00 P 20 PLAN AND PROFILE - ALIGNMENT F / STA F10+00 TO F19+00
- 00 P 21 PLAN AND PROFILE - ALIGNMENT F / STA F19+00 TO F29+00
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#### ALIGNMENT G - SUTTER AVE REHABILITATION

- 00 P 23 PLAN AND PROFILE - ALIGNMENT G / STA G10+00 TO G19+00
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#### ALIGNMENT H - DRY CREEK CROSSING

- 00 P 25 PLAN AND PROFILE - ALIGNMENT H / STA 10+00 TO 18+25
- 00 P 26 PLAN AND PROFILE - ALIGNMENT H / STA 18+25 TO 25+00

### CIVIL DETAILS

- 00 CD 01 JUNCTION STRUCTURE / COLORADO AVE & PELTON AVE
- 00 CD 02 JUNCTION STRUCTURE / TUOLUMNE BLVD & COLORADO AVE
- 00 CD 03 DIVERSION STRUCTURE / PARADISE RD & TUOLUMNE BLVD (MH T-13)
- 00 CD 04 JUNCTION STRUCTURE / TUOLUMNE BLVD & NEECE DR
- 00 CD 05 JUNCTION STRUCTURE / WEST TRUNK & RIVER TRUNK
- 00 CD 06 JUNCTION BOX NO. 1 MODIFICATIONS
- 00 CD 07 DIVERSION STRUCTURE / DRY CREEK

### RIVER TRUNK PUMP STATION (RTPS)

- 01 C 01 RTPS SITE PLAN / MORTON BLVD (PREFERRED SITE)
- 01 C 02 RTPS SITE PLAN / BEARD - EAST (OPTIONAL SITE 1)
- 01 C 03 RTPS SITE PLAN / BEARD - WEST (OPTIONAL SITE 2)

### STRUCTURAL

- 01 S 01 RTPS BOTTOM PLAN
- 01 S 02 RTPS TOP PLAN
- 01 S 03 RTPS SECTION
- 01 S 04 RTPS SECTIONS

### MECHANICAL

- 01 M 01 RTPS BOTTOM PLAN
- 01 M 02 RTPS TOP PLAN
- 01 M 03 RTPS SECTION
- 01 M 04 RTPS SECTIONS
- 01 M 05 RTPS BIOFILTER PLAN

### ELECTRICAL

- 01 E 01 RTPS ONE-LINE
- 01 E 02 RTPS ELECTRICAL BUILDING

### INSTRUMENTATION

- 01 N 01 RTPS P&ID PUMPS 1, 2, AND 3
- 01 N 02 RTPS P&ID PUMPS 4, 5, AND 6
- 01 N 03 RTPS P&ID PUMP 7
- 01 N 04 RTPS P&ID FLOW METERS 1 AND 2
- 01 N 05 RTPS P&ID GENERATOR AND FUEL TANK
- 01 N 06 RTPS P&ID PRELIMINARY TREATMENT ODOR CONTROL

### SHACKELFORD PUMP STATION

#### CIVIL

- 02 C 01 SHACKELFORD PS SITE PLAN

#### STRUCTURAL

- 02 S 01 SHACKELFORD PS PLANS AND SECTION

#### MECHANICAL

- 02 M 01 SHACKELFORD PS WET WELL AND VALVE VAULT PLANS
- 02 M 02 SHACKELFORD PS WET WELL AND VALVE VAULT SECTIONS

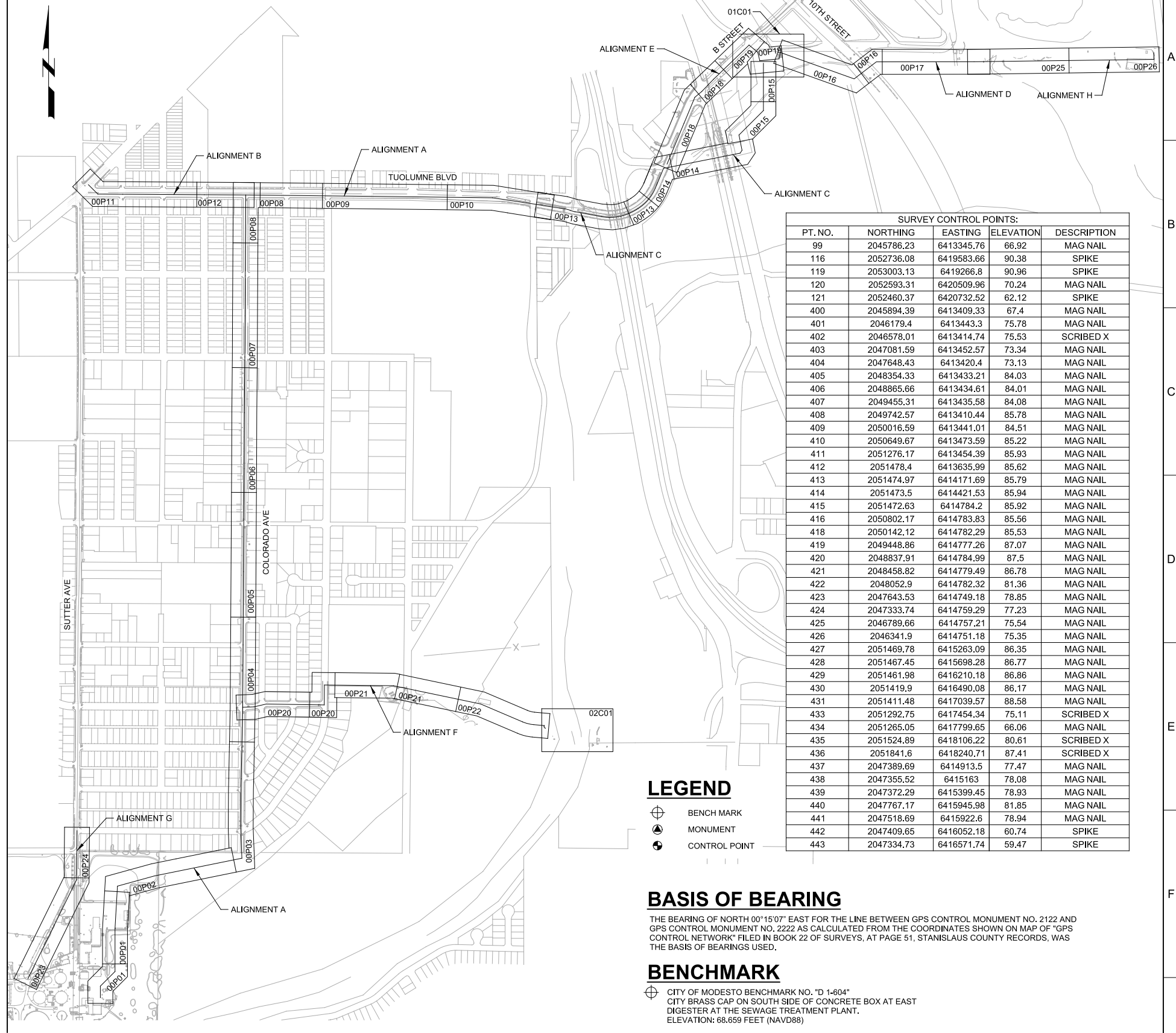
#### ELECTRICAL

- 02 E 01 SHACKELFORD PS ONE-LINE
- 02 E 02 SHACKELFORD PS ELECTRICAL BUILDING

### INSTRUMENTATION

- 02 N 01 SHACKELFORD PS P&ID
- 02 N 02 SHACKELFORD PS P&ID MAGMETER

# KEY PLAN



SURVEY CONTROL POINTS:				
PT. NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
99	2045786.23	6413345.76	66.92	MAG NAIL
116	2052736.08	6419583.66	90.38	SPIKE
119	2053003.13	6419266.8	90.96	SPIKE
120	2052593.31	6420509.96	70.24	MAG NAIL
121	2052460.37	6420732.52	62.12	SPIKE
400	2045894.39	6413409.33	67.4	MAG NAIL
401	2046179.4	6413443.3	75.78	MAG NAIL
402	2046578.01	6413414.74	75.53	SCRIBED X
403	2047081.59	6413452.57	73.34	MAG NAIL
404	2047648.43	6413420.4	73.13	MAG NAIL
405	2048354.33	6413433.21	84.03	MAG NAIL
406	2048865.66	6413434.61	84.01	MAG NAIL
407	2049455.31	6413435.58	84.08	MAG NAIL
408	2049742.57	6413410.44	85.78	MAG NAIL
409	2050016.59	6413441.01	84.51	MAG NAIL
410	2050649.67	6413473.59	85.22	MAG NAIL
411	2051276.17	6413454.39	85.93	MAG NAIL
412	2051478.4	6413635.99	85.62	MAG NAIL
413	2051474.97	6414171.69	85.79	MAG NAIL
414	2051473.5	6414421.53	85.94	MAG NAIL
415	2051472.63	6414784.2	85.92	MAG NAIL
416	2050802.17	6414783.83	85.56	MAG NAIL
418	2050142.12	6414782.29	85.53	MAG NAIL
419	2049448.86	6414777.26	87.07	MAG NAIL
420	2048837.91	6414784.99	87.5	MAG NAIL
421	2048458.82	6414779.49	86.78	MAG NAIL
422	2048052.9	6414782.32	81.36	MAG NAIL
423	2047643.53	6414749.18	78.85	MAG NAIL
424	2047333.74	6414759.29	77.23	MAG NAIL
425	2046789.66	6414757.21	75.54	MAG NAIL
426	2046341.9	6414751.18	75.35	MAG NAIL
427	2051469.78	6415263.09	86.35	MAG NAIL
428	2051467.45	6415698.28	86.77	MAG NAIL
429	2051461.98	6416210.18	86.86	MAG NAIL
430	2051419.9	6416490.08	86.17	MAG NAIL
431	2051411.48	6417039.57	88.58	MAG NAIL
433	2051292.75	6417454.34	75.11	SCRIBED X
434	2051265.05	6417799.65	66.06	MAG NAIL
435	2051524.89	6418106.22	80.61	SCRIBED X
436	2051841.6	6418240.71	87.41	SCRIBED X
437	2047389.69	6414913.5	77.47	MAG NAIL
438	2047355.52	6415163	78.08	MAG NAIL
439	2047372.29	6415399.45	78.93	MAG NAIL
440	2047767.17	6415945.98	81.85	MAG NAIL
441	2047518.69	6415922.6	78.94	MAG NAIL
442	2047409.65	6416052.18	60.74	SPIKE
443	2047334.73	6416571.74	59.47	SPIKE

## LEGEND

- BENCH MARK
- MONUMENT
- CONTROL POINT

## BASIS OF BEARING

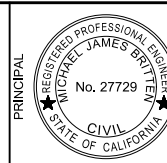
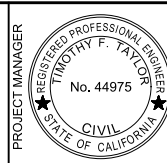
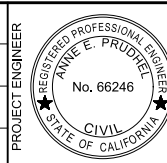
THE BEARING OF NORTH 00°15'07" EAST FOR THE LINE BETWEEN GPS CONTROL MONUMENT NO. 2122 AND GPS CONTROL MONUMENT NO. 2222 AS CALCULATED FROM THE COORDINATES SHOWN ON MAP OF "GPS CONTROL NETWORK" FILED IN BOOK 22 OF SURVEYS, AT PAGE 51, STANISLAUS COUNTY RECORDS, WAS THE BASIS OF BEARINGS USED.

## BENCHMARK

CITY OF MODESTO BENCHMARK NO. "D 1-604"  
CITY BRASS CAP ON SOUTH SIDE OF CONCRETE BOX AT EAST DIGESTER AT THE SEWAGE TREATMENT PLANT.  
ELEVATION: 68.659 FEET (NAVD88)

**35% DESIGN  
NOT FOR CONSTRUCTION**

DESIGNED AP  
DRAWN BWH  
CHECKED SS  
DATE MARCH 2015



CITY OF MODESTO  
RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
GENERAL  
SHEET INDEX AND SHEET LAYOUT

VERIFY SCALES  
JOB NO. 9551A.00  
DRAWING NO. 00G02  
SHEET NO. X OF XX

Plot Date: 08-SEP-2015 10:50:01 AM  
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**GENERAL NOTES:**

- ALL SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF MODESTO'S STANDARD SPECIFICATIONS AND DRAWINGS, EXCEPT WHERE MODIFIED IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL NOTIFY THE CITY 48 HOURS PRIOR TO STARTING ANY SEWER WORK.
- FOR ANY WORK IN A PUBLIC STREET, THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE AGENCY HAVING JURISDICTION AND SHALL ADHERE TO ALL CONDITIONS CONTAINED IN THE ENCROACHMENT PERMIT.
- THE LOCATIONS OF UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS WITH APPROPRIATE AGENCIES AND BY POT-HOLING. UTILITIES IDENTIFIED AS "INV UNK" IN THE PROFILE HAVE BEEN SHOWN AT AN ASSUMED DEPTH AND HAVE NOT BEEN POT-HOLED. CONTRACTOR IS RESPONSIBLE FOR DETERMINING DEPTH OF EXISTING UTILITIES. LOCATIONS OF SERVICE CONNECTIONS ARE APPROXIMATED AND SHALL BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL CALL USA UNDERGROUND SERVICE ALERT AT LEAST 72 HOURS PRIOR TO COMMENCING WORK, AND EXERCISE ALL NECESSARY CAUTION TO AVOID DAMAGE TO ANY EXISTING UTILITY LINE OR FACILITY TO REMAIN IN PLACE, REGARDLESS OF WHETHER OR NOT SUCH LINES OR FACILITIES ARE SHOWN ON PLANS.
- THE CONTRACTOR SHALL NOTIFY THE CITY IMMEDIATELY OF ANY CONFLICT BETWEEN NEW SEWERS AND OTHER UNDERGROUND FACILITIES.
- THE CONTRACTOR SHALL SHORE ALL WORK IN ACCORDANCE WITH APPLICABLE SAFETY ORDERS AND CONTRACTOR SAFETY APPROVAL PLAN.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE CITY OF ANY DISCREPANCIES.
- DETAILED PROCEDURE, SEQUENCE, BYPASS PLAN, INSPECTION/ACCEPTANCE SCHEDULE, AND OVERALL WORK PLAN SHALL BE PREPARED AND CERTIFIED BY THE CONTRACTOR AND REVIEWED AND ACCEPTED BY THE ENGINEER.
- CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY SEWAGE OVERFLOW OR SPILLAGE, ANY EXPENSES INCURRED BY THE CITY FOR RESPONDING TO, CONTROLLING, AND CLEANING UP THE SPILL, AND REPORTING AND CORRESPONDING WITH THE RWQCB AND SWRCB FOR SPILLS RESULTING FROM CONSTRUCTION-RELATED SEWAGE OVERFLOWS AND SPILLS SHALL BE BORNE BY THE CONTRACTOR. ANY DAMAGES OR FINES LEVIED ON THE CITY RESULTING FROM CONSTRUCTION-RELATED SEWAGE OVERFLOW & SPILLAGE SHALL ALSO BE BORNE BY THE CONTRACTOR.
- CONTRACTOR SHALL RESTORE OR REPLACE ANY DAMAGED SURVEY MONUMENTS RESULTING FROM THEIR OPERATION AND SHALL BEAR ALL COSTS OF SUCH REPLACEMENT, INCLUDING COST OF FILING A RECORD OF SURVEY WITH THE CITY OF MODESTO. REPLACEMENT SHALL BE COMPLETED BY A LAND SURVEYOR REGISTERED BY THE STATE OF CALIFORNIA.

**UTILITY CONTACTS**

AGENCY NAME	CONTACT NAME	PHONE NUMBER
CALTRANS DISTRICT 10	ROHULLAH AFZAL	209-576-6299
STANISLAUS COUNTY PUBLIC WORKS	DAVID LEAMON	209-567-4881
PACIFIC GAS & ELECTRIC	ROGER DIAL	209-576-6638
MID - IRRIGATION	DAVE COLBY	209-526-6638
MID - ELECTRIC	ERIC DAVIS	209-526-7567
VERIZON - MCI	DEAN BOYERS	209-729-6322
SBC COMMUNICATIONS	SHARON DINNELL	209-549-5847
AT&T	DON GOLVIN	209-578-7044
COMCAST CABLE	ARTHUR B. KING	209-955-6542
CITY WATER	ANTHONY BEAN	209-342-4558
CITY SEWER	JACK COOKE	209-577-6234
CITY STORM DRAINS	DAVE STEELEY	209-577-6287
TID - ELECTRICAL	PAUL MAZE	209-883-8653

**ABBREVIATIONS**

ABBREV	DESCRIPTION	MAX	MAXIMUM
@	AT	MECH	MECHANICAL
KV	KILOVOLT	MFR	MANUFACTURER
ABC	AGGREGATE BASE COURSE	MH	MANHOLE
ARV	AIR RELEASE VALVE	MID	MODESTO IRRIGATION DISTRICT
BF	BLIND FLANGE	MIN	MINIMUM
BFV	BUTTERFLY VALVE	MJ	MECHANICAL JOINT
BV	BALL VALVE	MM	MAGNETIC FLOW METER
BYP	BYPASS	N	NORTH
C	CONDUIT	NA	NOT APPLICABLE
CFM	CUBIC FOOT PER MINUTE	NO OR #	NUMBER
CL	CENTER LINE	NOM	NOMINAL
CLSM	CONTROLLED LOW STRENGTH MATERIAL	OVFW	OVERFLOW
CMU	CONCRETE MASONRY UNIT	PL	PROPERTY LINE
CONC	CONCRETE	PLC	PROGRAMMABLE LOGIC CONTROLLER
CONN	CONNECTION	PMP	PUMP
CONT	CONTINUE	PS	PUMP STATION
CSL	CANNERY SEGREGATION LINE	PV	PLUG VALVE
CU	CUBIC	PVC	POLYVINYL CHLORIDE
D	DRAIN	PVMT	PAVEMENT
DEG	DEGREE	R	RADIUS
DIA OR Ø	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DIM	DIMENSION	RED	REDUCER
DIP	DUCTILE IRON PIPE	RFCA	RESTRAINED FLANGED COUPLING ADAPTER
DR	DIAMETER RATIO	ROW OR R/	RIGHT OF WAY
DSC	DISCHARGE	RTPS	RIVER TRUNK PUMP STATION
DWG	DRAWING	S	SOUTH OR SLOPE
E	EAST OR ELECTRICAL	SCV	SWING CHECK VALVE
EA	EACH	SDR	STANDARD DIAMETER RATIO
EL	ELEVATION	SH	SHEET
ELEC	ELECTRIC OR ELECTRICAL	SPS	SHACKELFORD PUMP STATION
ELL	ELBOW	SS	SANITARY SEWER
ENGR	ENGINEER	SSFM	SANITARY SEWER FORCE MAIN
EO	EMERGENCY OVERFLOW	SSMH	SANITARY SEWER MANHOLE
EQL	EQUAL	SST	STAINLESS STEEL
EX	EXISTING	STA	STATION
FA	FOUL AIR	TID	TURLOCK IRRIGATION DISTRICT
FC	FLEXIBLE CONNECTION OR FLEXIBLE COUPLING	TOC	TOP OF CONCRETE
FLEX	FLEXIBLE	TYP	TYPICAL
FLG	FLANGE	V OR VLV	VALVE
FM	FORCE MAIN	VCP	VITRIFIED CLAY PIPE
FPVC	FUSIBLE POLYVINYL CHLORIDE PIPE	VFD	VARIABLE FREQUENCY DRIVE
FT OR '	FOOT	W	WATER
HDPE	HIGH DENSITY POLYETHYLENE PIPE	W/	WITH
HORIZ	HORIZONTAL	WSEL	WATER SURFACE ELEVATION
HP	HORSE POWER		
HVAC	HEATING, VENTILATING AND AIR CONDITIONING		
ID	INTERIOR DIAMETER		
IN OR "	INCH		
INV	INVERT		
IPS	IRON PIPE SIZE		
JB	JUNCTION BOX		

**DESIGN CRITERIA**

RIVER TRUNK PUMP STATION		TRENCH STYLE	
WETWELL			
PUMP TYPE			SUBMERSIBLE
PEAK RATED PUMPING CAPACITY	54.5 MGD @ 92' TDH		
MINIMUM PUMPED FLOW	5.53 MGD		
NUMBER OF PUMPS (TOTAL)	7		
OPERATING PUMPS	6		
PUMP HORSE POWER	215 HP		
DRIVES	VFD		
SHACKELFORD PUMP STATION		RECTANGULAR WITH PREROTATION BASIN	
WETWELL			
PUMP TYPE			SUBMERSIBLE SCREW CENTRIFUGAL
PEAK PUMPING CAPACITY	4.2 MGD @ 47' TDH		
NUMBER OF PUMPS (TOTAL)	3		
OPERATING PUMPS	2		
PUMP HORSE POWER	32 HP		
DRIVES	CONSTANT SPEED		

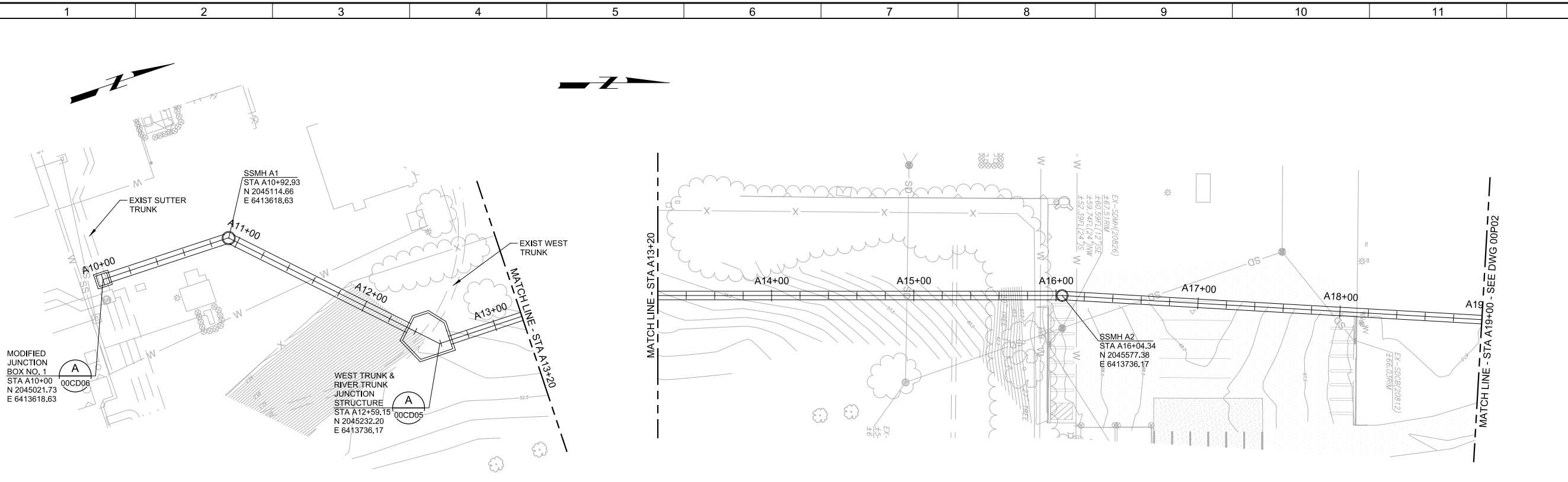
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1	2	3	4	5	6	7	8	9	10	11	12	13	

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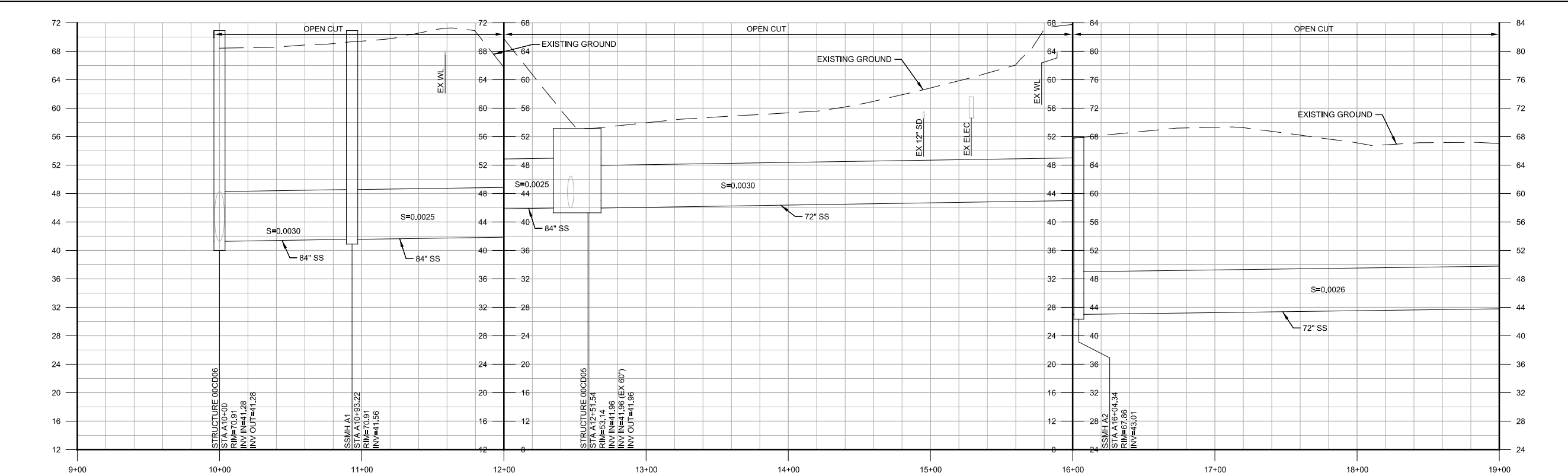
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LAST SAVED BY: bhowes



**PLAN**  
 SCALE: 1"=40'  
 FILE: 9551A10\_01C100



**PROFILE**  
 HORIZ SCALE: 1"=40'  
 VERT SCALE: 1"=8'  
 FILE: 9551A10\_01C100

**GENERAL NOTES:**

1. XXXX
2. XXXX

**KEY NOTES:**

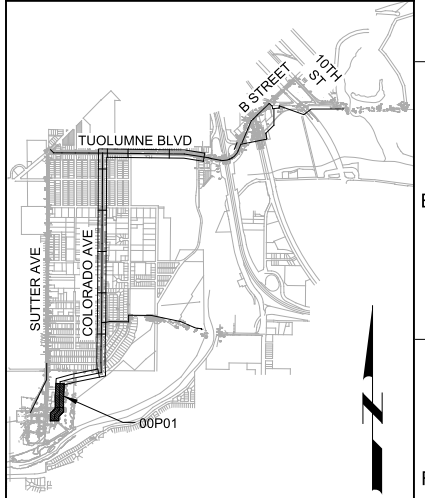
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**Call before you Dig**  
 Avoid cutting underground utility lines. It's costly.



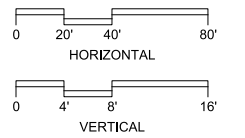
OR  
 1-800-227-2600

**KEY MAP**



KEY MAP NORTH

**SCALE**



**35% DESIGN  
 NOT FOR CONSTRUCTION**

DESIGNED AP  
 DRAWN BWH  
 CHECKED SS  
 DATE MARCH 2015

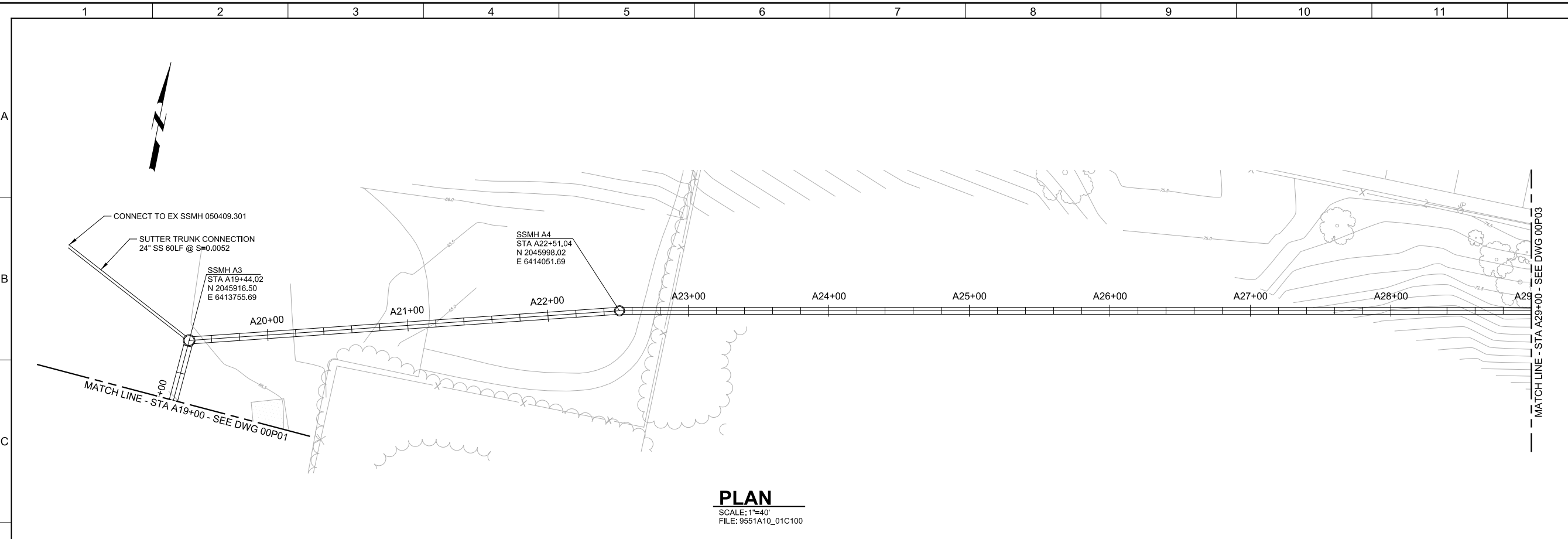


CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 CIVIL  
**PLAN AND PROFILE - ALIGNMENT A  
 STA A10+00 TO A19+00**

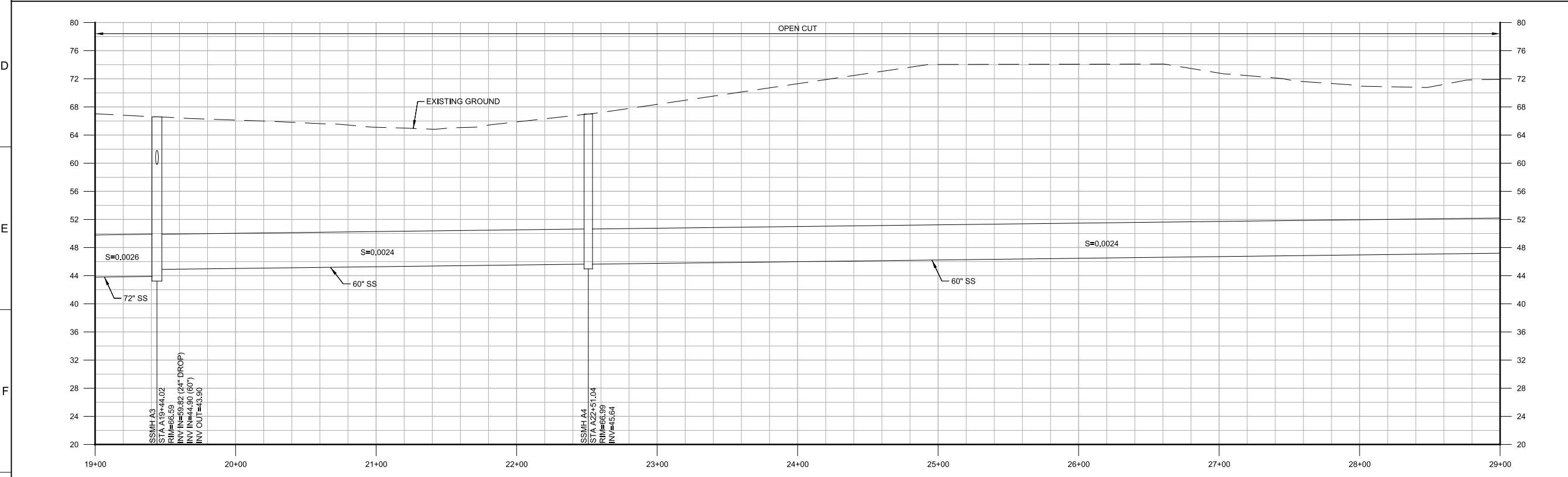
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 SHEET NO. X OF XX

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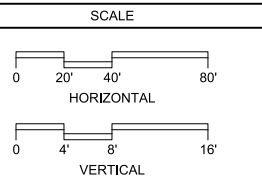
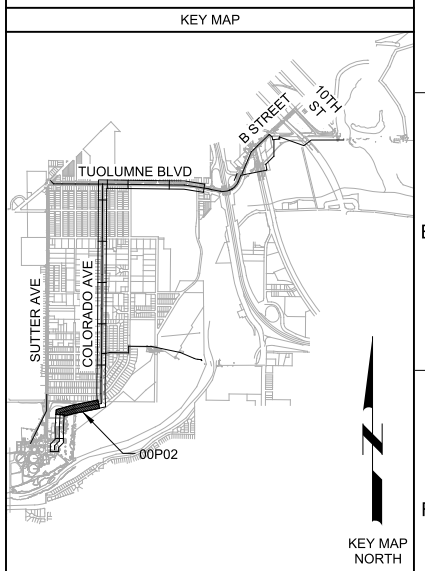
**PLAN**  
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**PROFILE**  
 HORIZ SCALE: 1"=40'  
 VERT SCALE: 1"=8'  
 FILE: 9551A10\_01C100

- GENERAL NOTES:**
- XXXX
  - XXXX
- KEY NOTES:**
- 1 XXXX

**Call before you Dig**  
 Avoid cutting underground utility lines. It's costly.



<b>35% DESIGN NOT FOR CONSTRUCTION</b>			
DESIGNED AP	PROJECT ENGINEER		
DRAWN BWH	PROJECT MANAGER		
CHECKED SS	PRINCIPAL		
DATE MARCH 2015			
REV	DATE	BY	DESCRIPTION
1			

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**CITY OF MODESTO**  
**RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION**  
 CIVIL  
**PLAN AND PROFILE - ALIGNMENT A**  
**STA A19+00 TO A29+00**

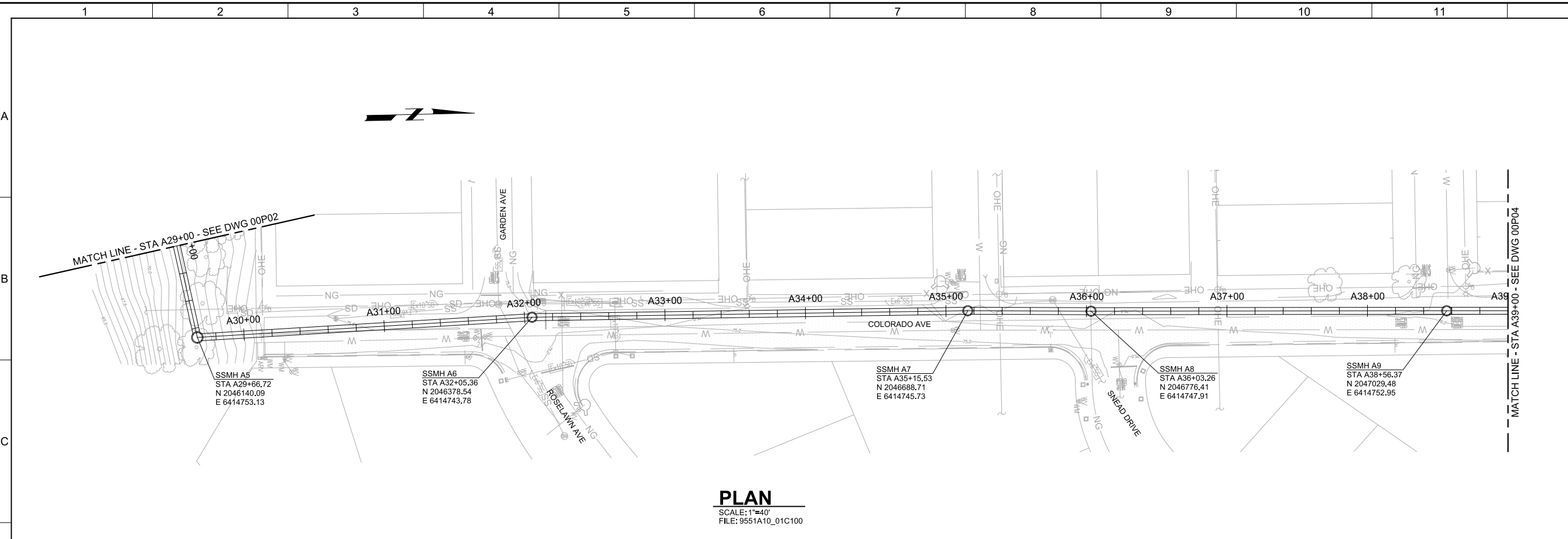
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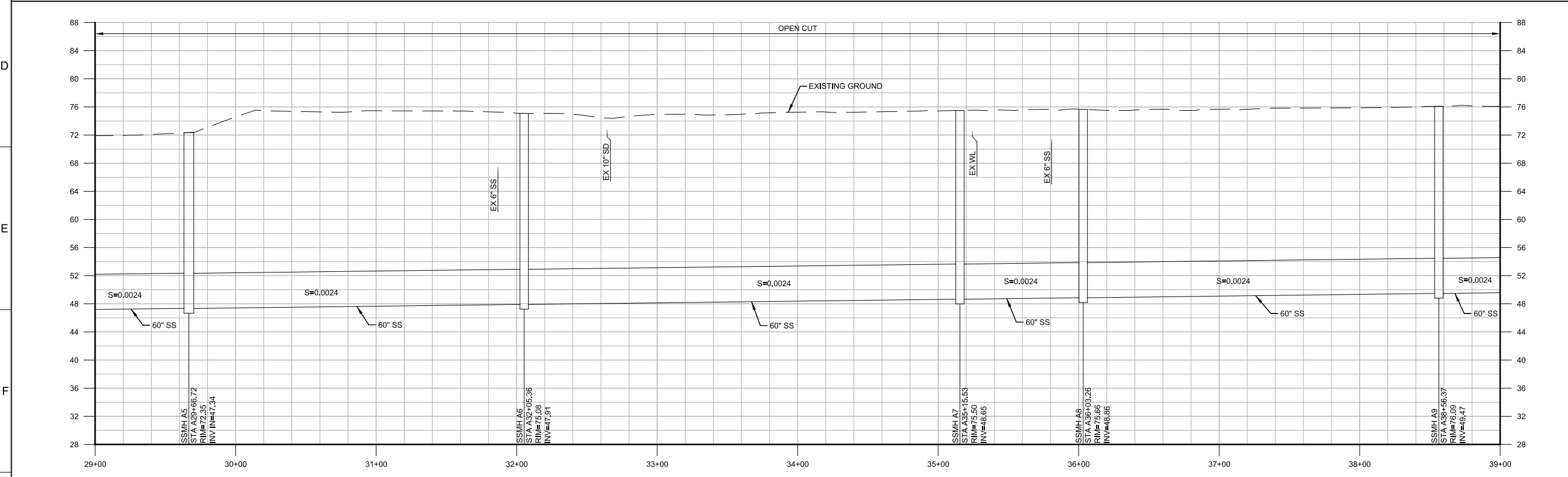
User: B\_hawes

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905-Chilipen\_PlotScale: 2:1

LAST SAVED BY: bhawes



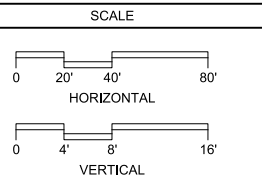
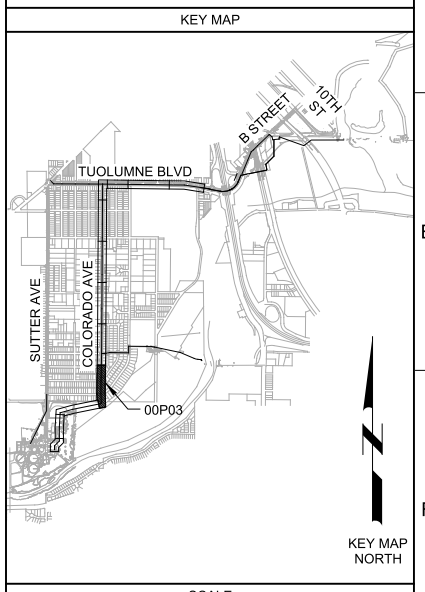
**PLAN**  
 SCALE: 1"=40'  
 FILE: 9551A10\_01C100



**PROFILE**  
 HORIZ SCALE: 1"=40'  
 VERT SCALE: 1"=8'  
 FILE: 9551A10\_01C100

- GENERAL NOTES:**
- XXXX
  - XXXX
- KEY NOTES:**
- 1 XXXX

**Call before you Dig**  
 Avoid cutting underground utility lines. It's costly.



<b>35% DESIGN NOT FOR CONSTRUCTION</b>		
DESIGNED AP	DRAWN BWH	CHECKED SS
DATE MARCH 2015	PROJECT ENGINEER	
REV	DATE	BY
1	2	3

PROJECT ENGINEER:

PROJECT MANAGER:

PRINCIPAL:



CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 CIVIL  
**PLAN AND PROFILE - ALIGNMENT A  
 STA A29+00 TO A39+00**

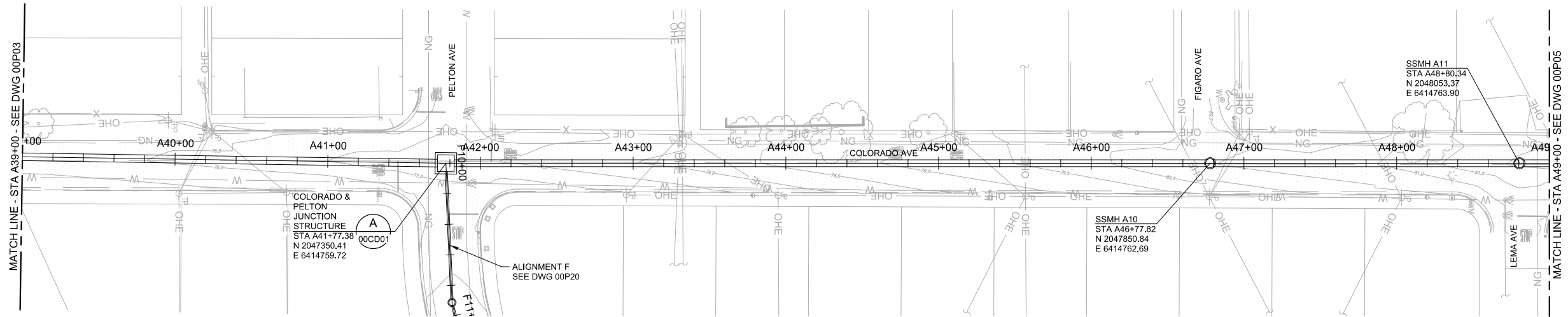
VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING	JOB NO. 9551A.00
0 1"	DRAWING NO. 00P03
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. X OF XX

Plot Date: 20-MAR-2015 8:55:54 AM

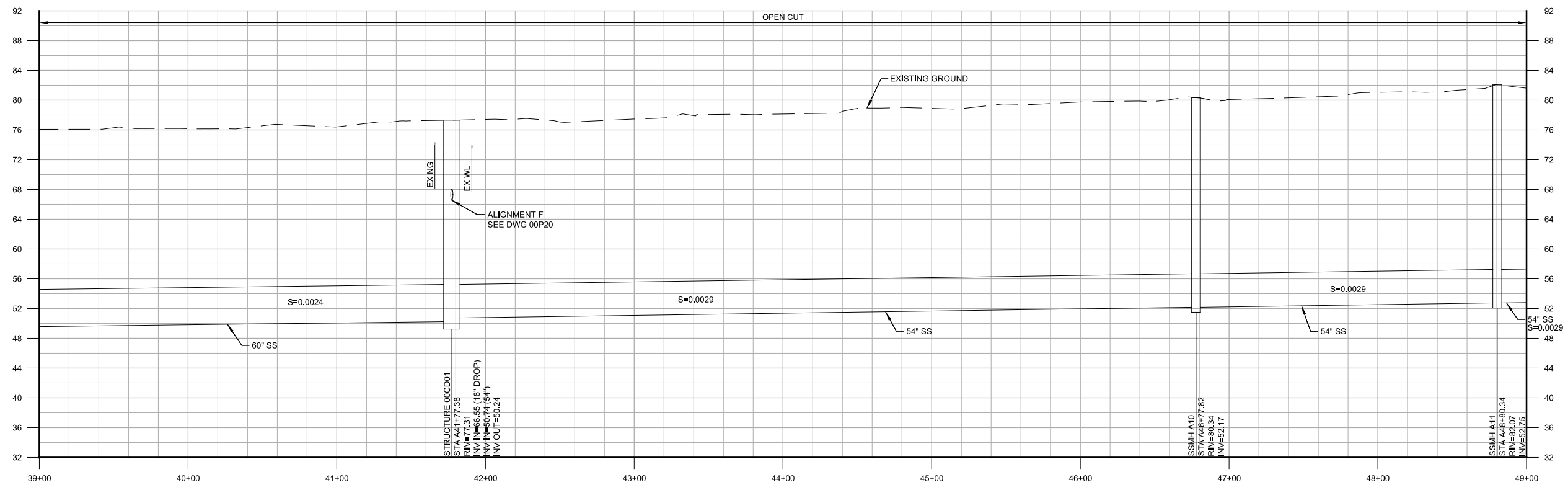
User: Bhowes

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Std\_Pen\_v0905 - Chitpen\_PlotScale: 2:1

LAST SAVED BY: bhowes



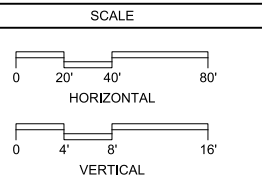
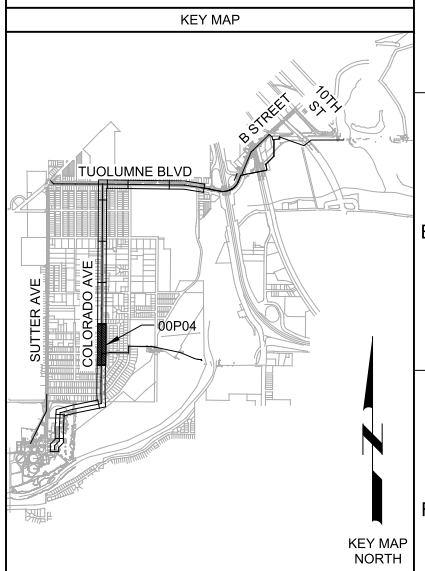
**PLAN**  
 SCALE: 1"=40'  
 FILE: 9551A10\_01C100



**PROFILE**  
 HORIZ SCALE: 1"=40'  
 VERT SCALE: 1"=8'  
 FILE: 9551A10\_01C100

- GENERAL NOTES:**
- XXXX
  - XXXX
- KEY NOTES:**
- 1 XXXX

**Call before you Dig**  
 Avoid cutting underground utility lines. It's costly.



<b>35% DESIGN NOT FOR CONSTRUCTION</b>			
DESIGNED AP	DRAWN BWH	CHECKED SS	DATE MARCH 2015
PROJECT ENGINEER	PROJECT MANAGER	PRINCIPAL	
REGISTERED PROFESSIONAL ENGINEER TIMOTHY F. TAYLOR No. 68268 CIVIL STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER TIMOTHY F. TAYLOR No. 44975 CIVIL STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES BRITTON No. 27729 CIVIL STATE OF CALIFORNIA	

REV	DATE	BY	DESCRIPTION
1			
2			
3			

**CITY OF MODESTO**  
**RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION**  
 CIVIL  
**PLAN AND PROFILE - ALIGNMENT A  
 STA A39+00 TO A49+00**

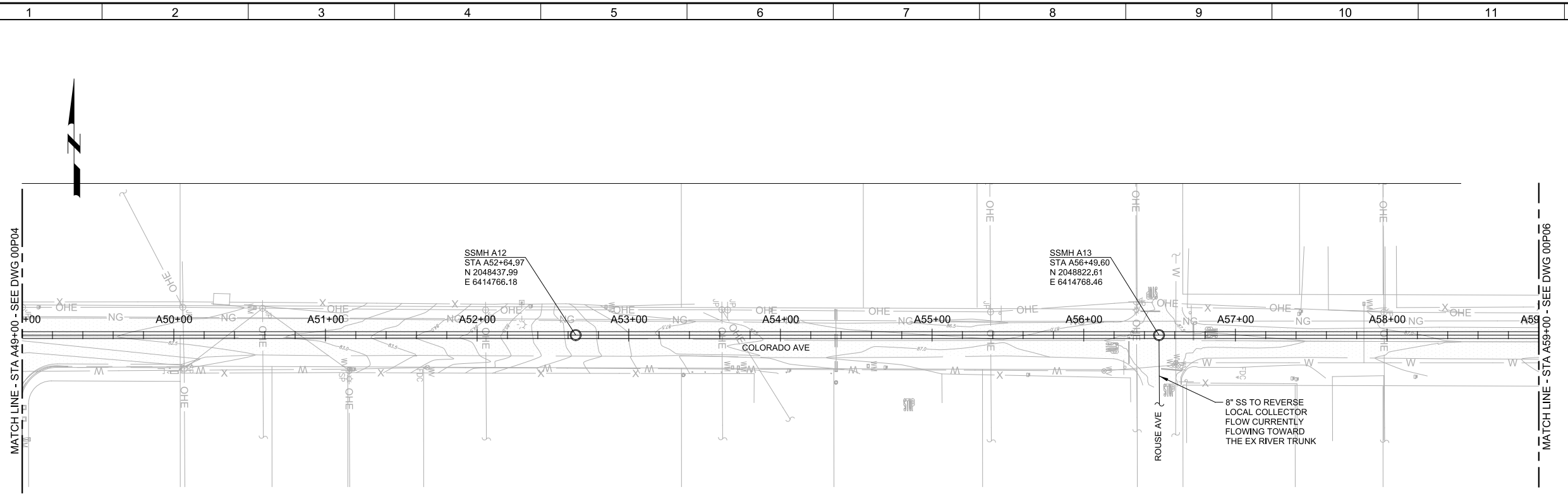
VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 9551A.00
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. <b>00P04</b>
	SHEET NO. X OF XX

Plot Date: 20-MAR-2015 8:59:27 AM

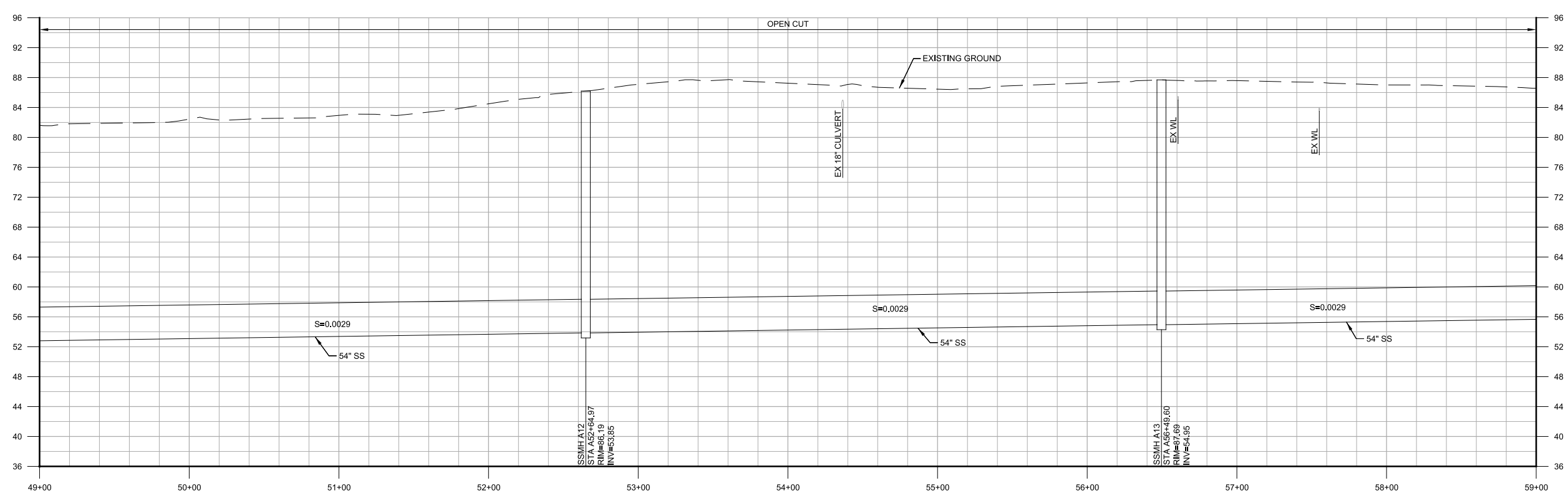
User: B\_haves

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905 - Civilpen\_PlotScale: 2:1

LAST SAVED BY: bhaves



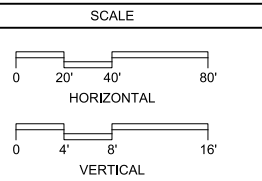
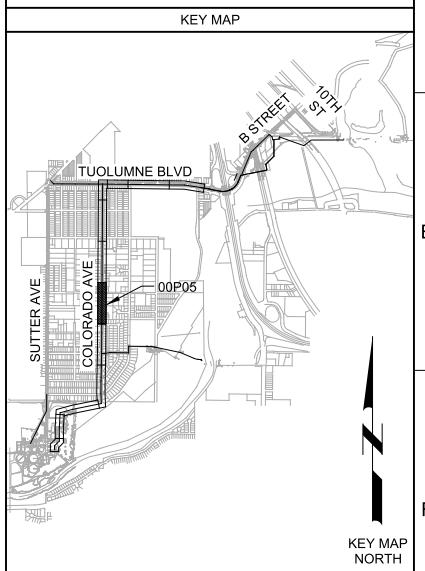
**PLAN**  
SCALE: 1"=40'  
FILE: 9551A10\_01C100



**PROFILE**  
HORIZ SCALE: 1"=40'  
VERT SCALE: 1"=8'  
FILE: 9551A10\_01C100

- GENERAL NOTES:**
- XXXX
  - XXXX
- KEY NOTES:**
- 1 XXXX

**Call before you Dig**  
Avoid cutting underground utility lines. It's costly.



<b>35% DESIGN NOT FOR CONSTRUCTION</b>			
DESIGNED AP	PROJECT ENGINEER	REGISTERED PROFESSIONAL ENGINEER ANNE E. PRUD'HEM No. 66246 CIVIL STATE OF CALIFORNIA	
DRAWN BWH	PROJECT ENGINEER	REGISTERED PROFESSIONAL ENGINEER TIMOTHY F. TAYLOR No. 44975 CIVIL STATE OF CALIFORNIA	
CHECKED SS	PRINCIPAL	REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES BRITTON No. 27729 CIVIL STATE OF CALIFORNIA	
DATE MARCH 2015			
REV	DATE	BY	DESCRIPTION
1			
2			

**carollo**

REGISTERED PROFESSIONAL ENGINEER  
MICHAEL JAMES BRITTON  
No. 27729  
CIVIL  
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER  
TIMOTHY F. TAYLOR  
No. 44975  
CIVIL  
STATE OF CALIFORNIA

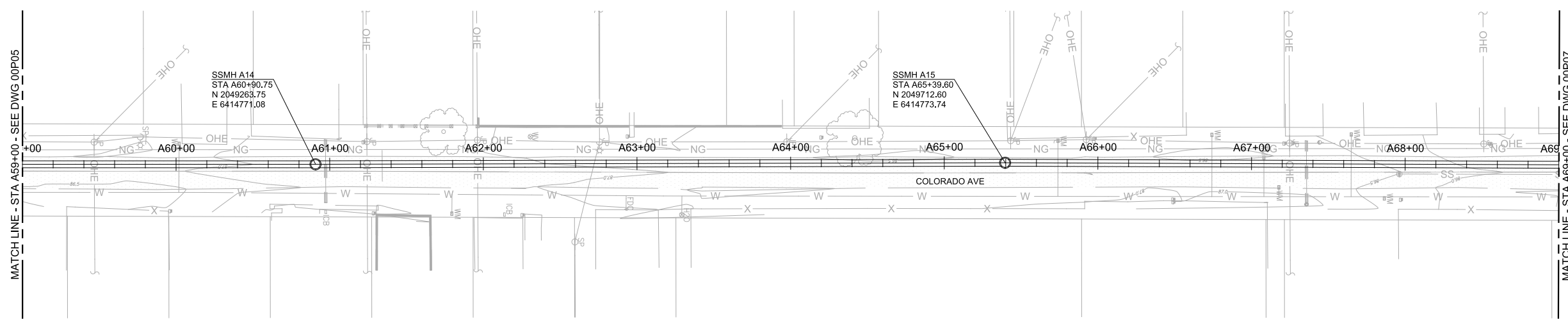
REGISTERED PROFESSIONAL ENGINEER  
ANNE E. PRUD'HEM  
No. 66246  
CIVIL  
STATE OF CALIFORNIA

**MODESTO CALIFORNIA**

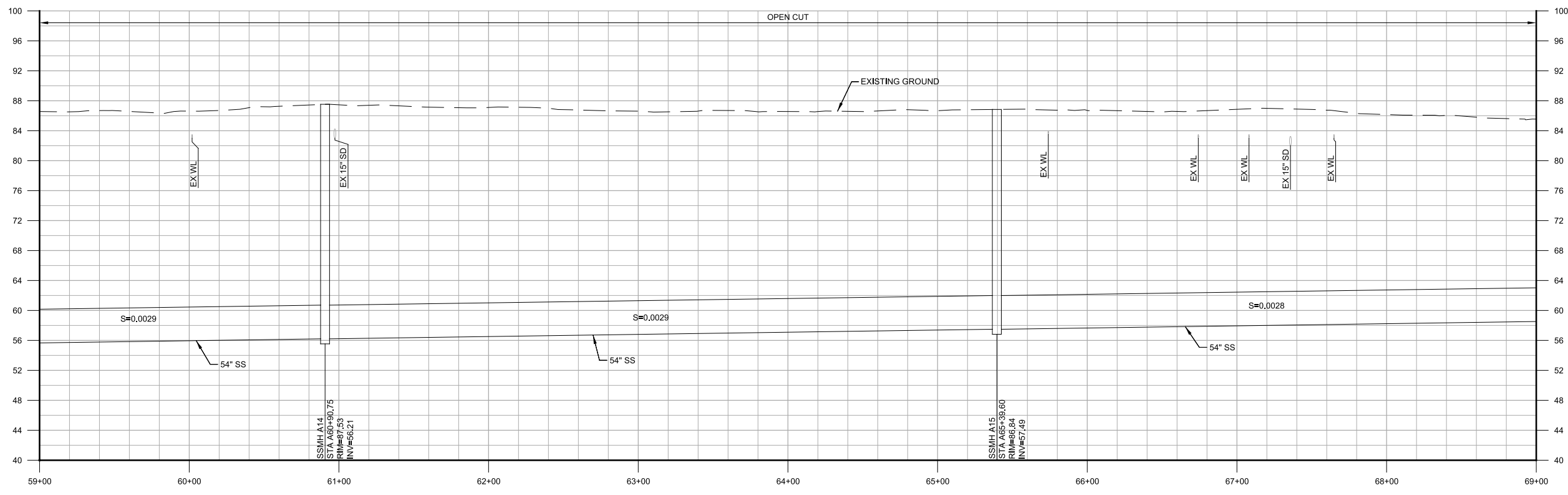
CITY OF MODESTO  
RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
CIVIL  
PLAN AND PROFILE - ALIGNMENT A  
STA A49+00 TO A59+00

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 9551A.00
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. 00P05
	SHEET NO. X OF XX

Plot Date: 20-MAR-2015 8:59:59 AM  
 User: B\_haves  
 Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905 - Civilpen\_PlotScale: 2:1  
 LAST SAVED BY: bhaves



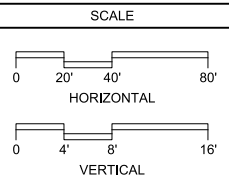
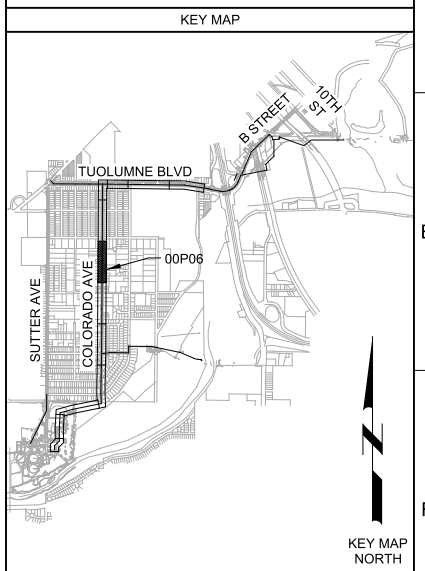
**PLAN**  
 SCALE: 1"=40'  
 FILE: 9551A10\_01C100



**PROFILE**  
 HORIZ SCALE: 1"=40'  
 VERT SCALE: 1"=8'  
 FILE: 9551A10\_01C100

- GENERAL NOTES:**
- XXXX
  - XXXX
- KEY NOTES:**
- 1 XXXX

**Call before you Dig**  
 Avoid cutting underground utility lines. It's costly.



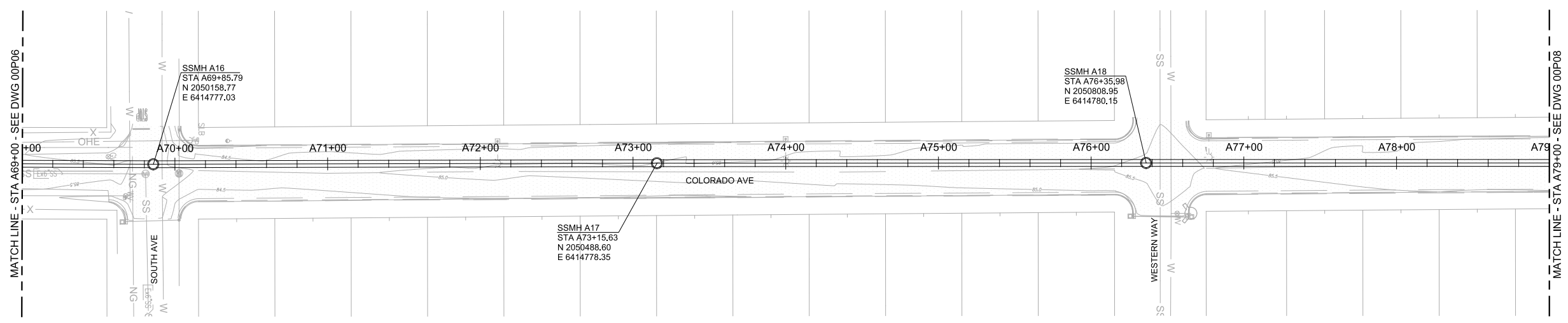
<b>35% DESIGN NOT FOR CONSTRUCTION</b>			
DESIGNED	AP		
DRAWN	BWH		
CHECKED	SS		
DATE	MARCH 2015		
REV	DATE	BY	DESCRIPTION
1			

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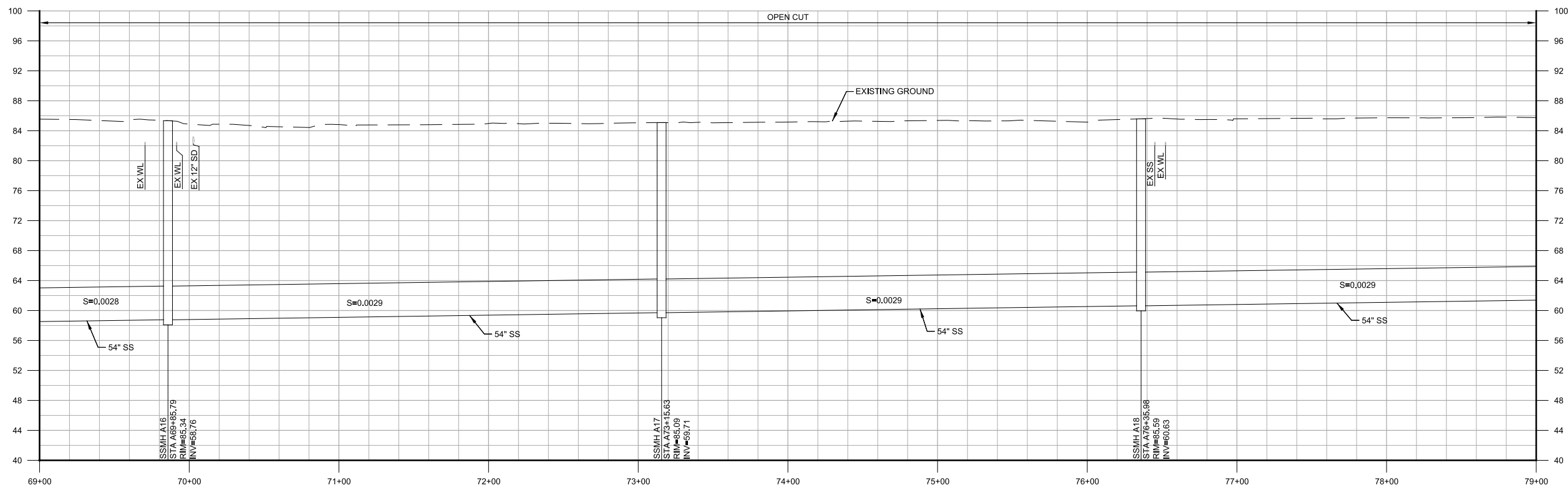
**CITY OF MODESTO**  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 CIVIL  
**PLAN AND PROFILE - ALIGNMENT A**  
 STA A59+00 TO A69+00

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 9551A.00 DRAWING NO. <b>00P06</b> SHEET NO. X OF XX
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Plot Date: 20-MAR-2015 9:00:31 AM  
 User: Bhowes  
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 LAST SAVED BY: bhowes



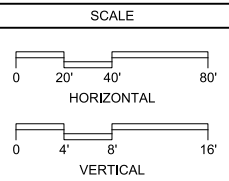
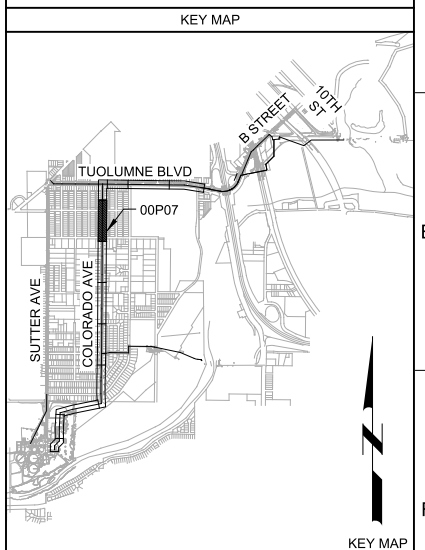
**PLAN**  
 SCALE: 1"=40'  
 FILE: 9551A10\_01C100



**PROFILE**  
 HORIZ SCALE: 1"=40'  
 VERT SCALE: 1"=8'  
 FILE: 9551A10\_01C100

- GENERAL NOTES:**
- XXXX
  - XXXX
- KEY NOTES:**
- 1 XXXX

**Call before you Dig**  
 Avoid cutting underground utility lines. It's costly.



<b>35% DESIGN NOT FOR CONSTRUCTION</b>			
DESIGNED	AP		
DRAWN	BWH		
CHECKED	SS		
DATE	MARCH 2015		
REV	DATE	BY	DESCRIPTION
1			
2			

PROJECT ENGINEER	PROJECT MANAGER	PRINCIPAL



**CITY OF MODESTO**  
**RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION**  
 CIVIL  
**PLAN AND PROFILE - ALIGNMENT A**  
**STA A69+00 TO A79+00**

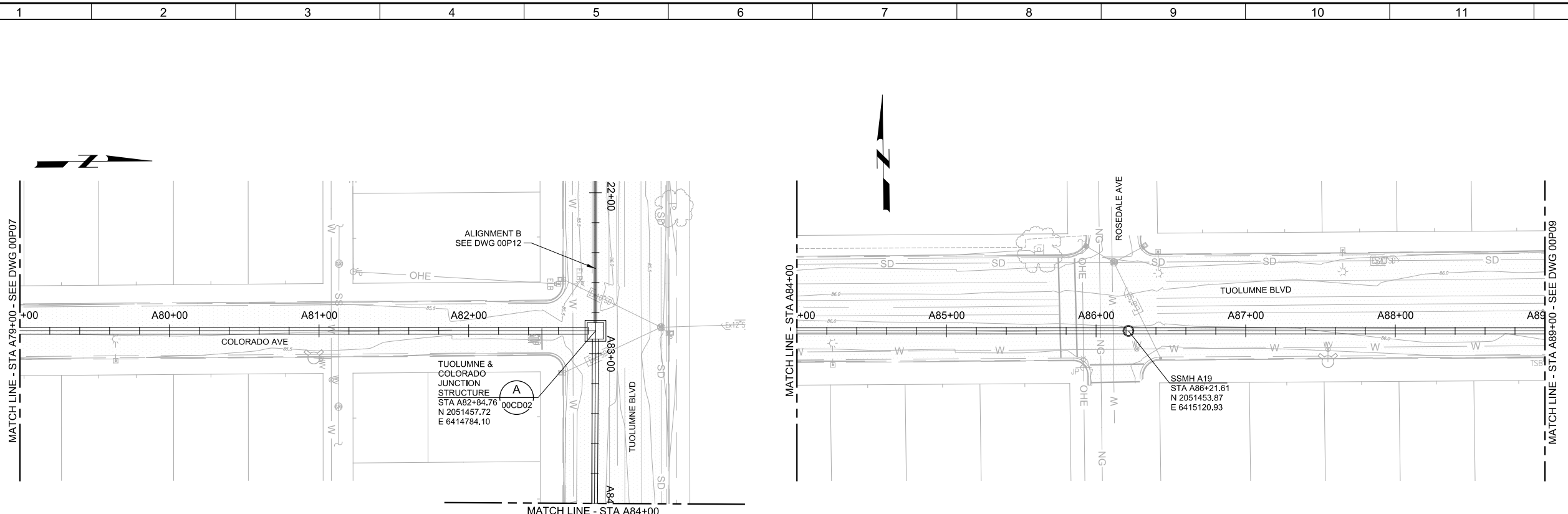
VERIFY SCALES	JOB NO. 9551A.00
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. <b>00P07</b>
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. X OF XX

Plot Date: 20-MAR-2015 9:01:02 AM

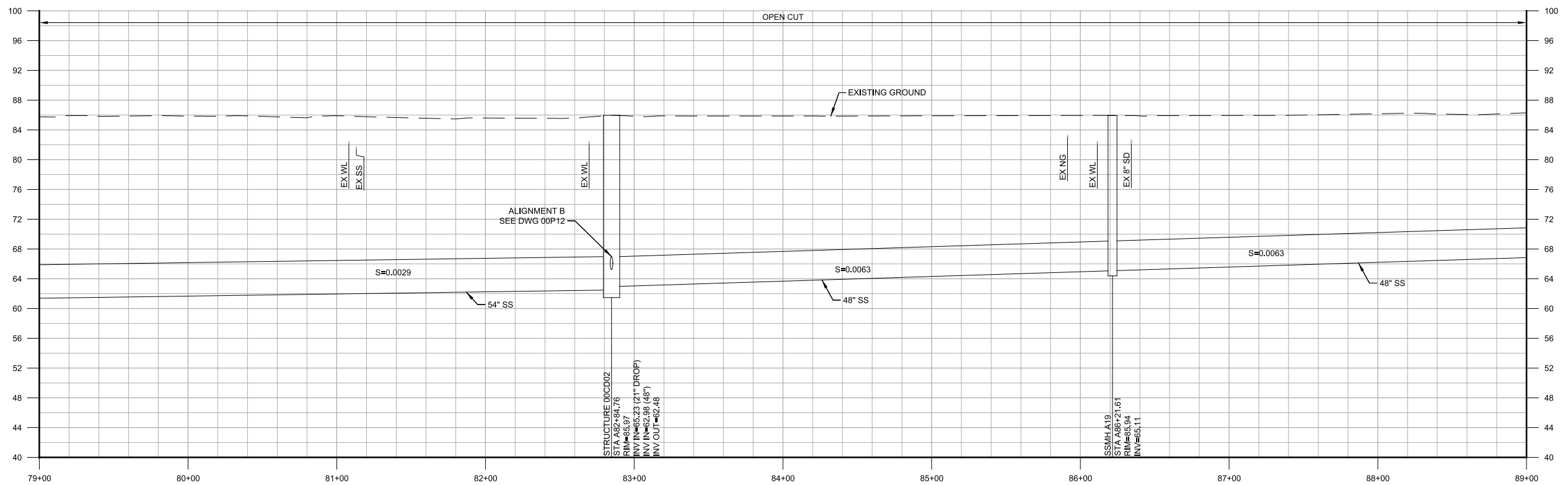
User: B\_haves

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905 - ChitPen\_PlotScale: 2:1

LAST SAVED BY: bhaves



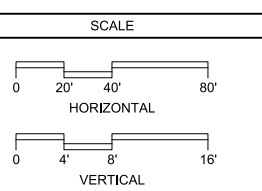
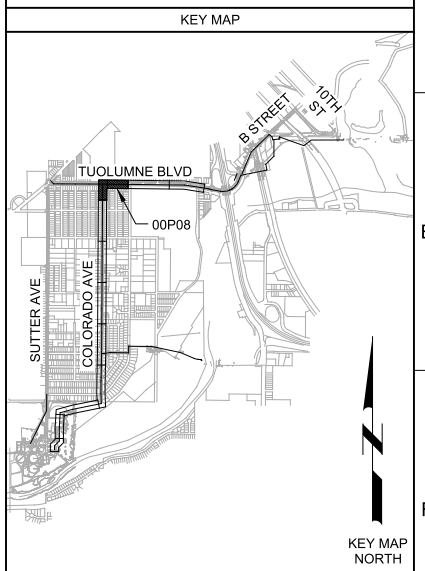
**PLAN**  
 SCALE: 1"=40'  
 FILE: 9551A10\_01C100



**PROFILE**  
 HORIZ SCALE: 1"=40'  
 VERT SCALE: 1"=8'  
 FILE: 9551A10\_01C100

- GENERAL NOTES:**
- XXXX
  - XXXX
- KEY NOTES:**
- 1 XXXX

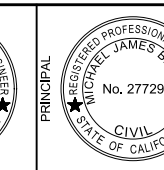
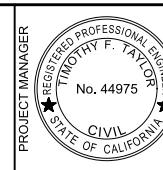
**Call before you Dig**  
 Avoid cutting underground utility lines. It's costly.



REV	DATE	BY	DESCRIPTION
1			
2			

**35% DESIGN  
 NOT FOR CONSTRUCTION**

DESIGNED AP  
 DRAWN BWH  
 CHECKED SS  
 DATE MARCH 2015



CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 CIVIL  
**PLAN AND PROFILE - ALIGNMENT A  
 STA A79+00 TO A89+00**

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

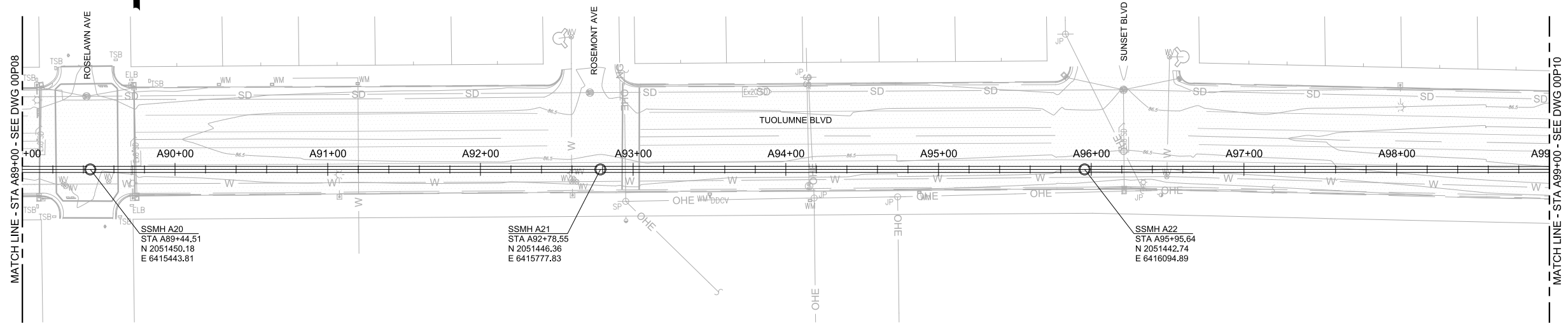
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 DRAWING NO. 00P08  
 SHEET NO. X OF XX

Plot Date: 20-MAR-2015 9:01:37 AM

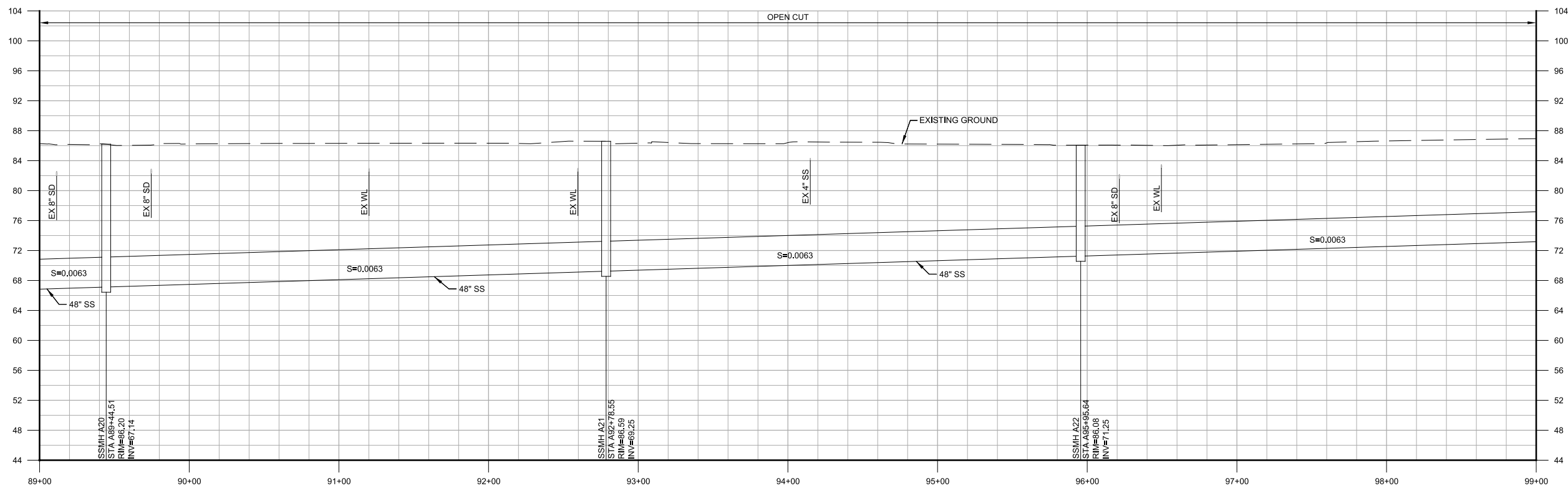
User: Bhowes

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Std\_Pen\_v0905-Chilpen\_PlotScale: 2:1

LAST SAVED BY: bhowes



**PLAN**  
 SCALE: 1"=40'  
 FILE: 9551A10\_01C100



**PROFILE**  
 HORIZ SCALE: 1"=40'  
 VERT SCALE: 1"=8'  
 FILE: 9551A10\_01C100

**GENERAL NOTES:**

1. xxxx
2. xxxx

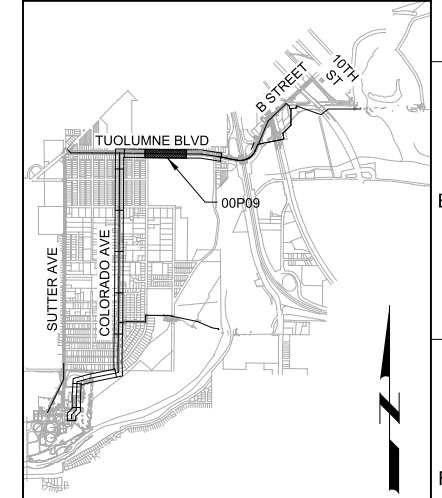
**KEY NOTES:**

- 1 xxxx

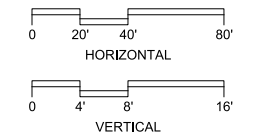
**Call before you Dig**  
 Avoid cutting underground utility lines. It's costly.



**KEY MAP**

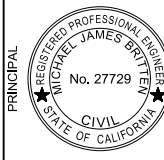


**SCALE**



**35% DESIGN  
 NOT FOR CONSTRUCTION**

DESIGNED AP  
 DRAWN BWH  
 CHECKED SS  
 DATE MARCH 2015



**CITY OF MODESTO**  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 CIVIL  
**PLAN AND PROFILE - ALIGNMENT A  
 STA A89+00 TO A99+00**

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

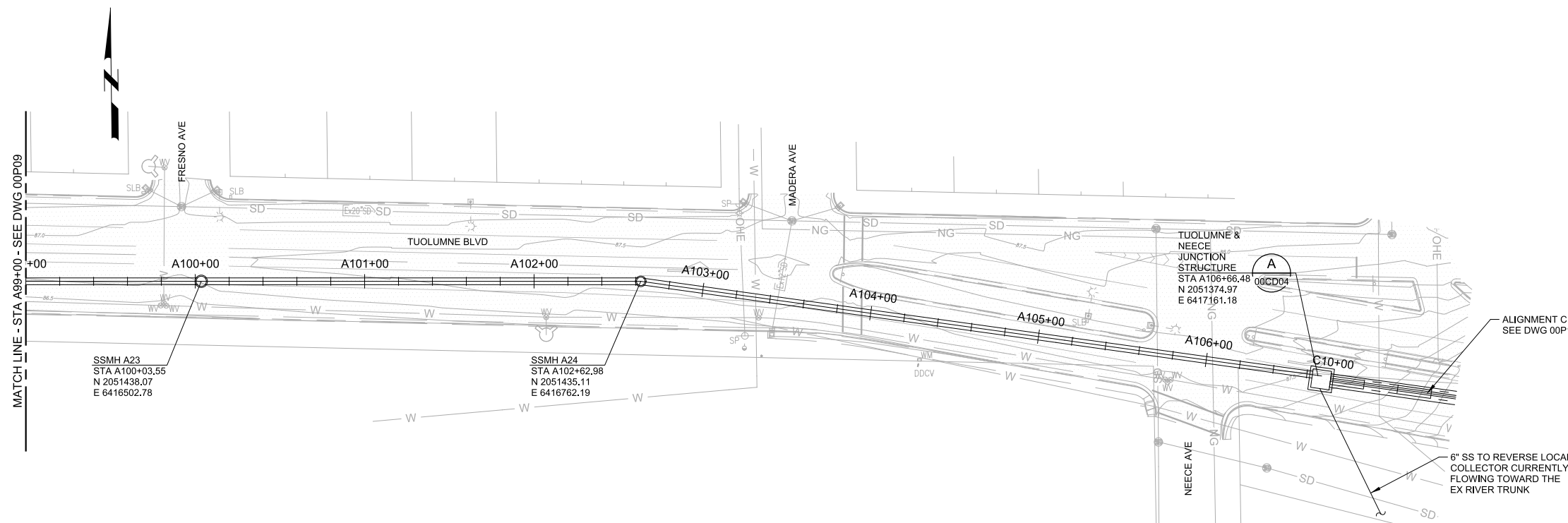
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 DRAWING NO. 00P09  
 SHEET NO. X OF XX

Plot Date: 20-MAR-2015 8:02:10 AM

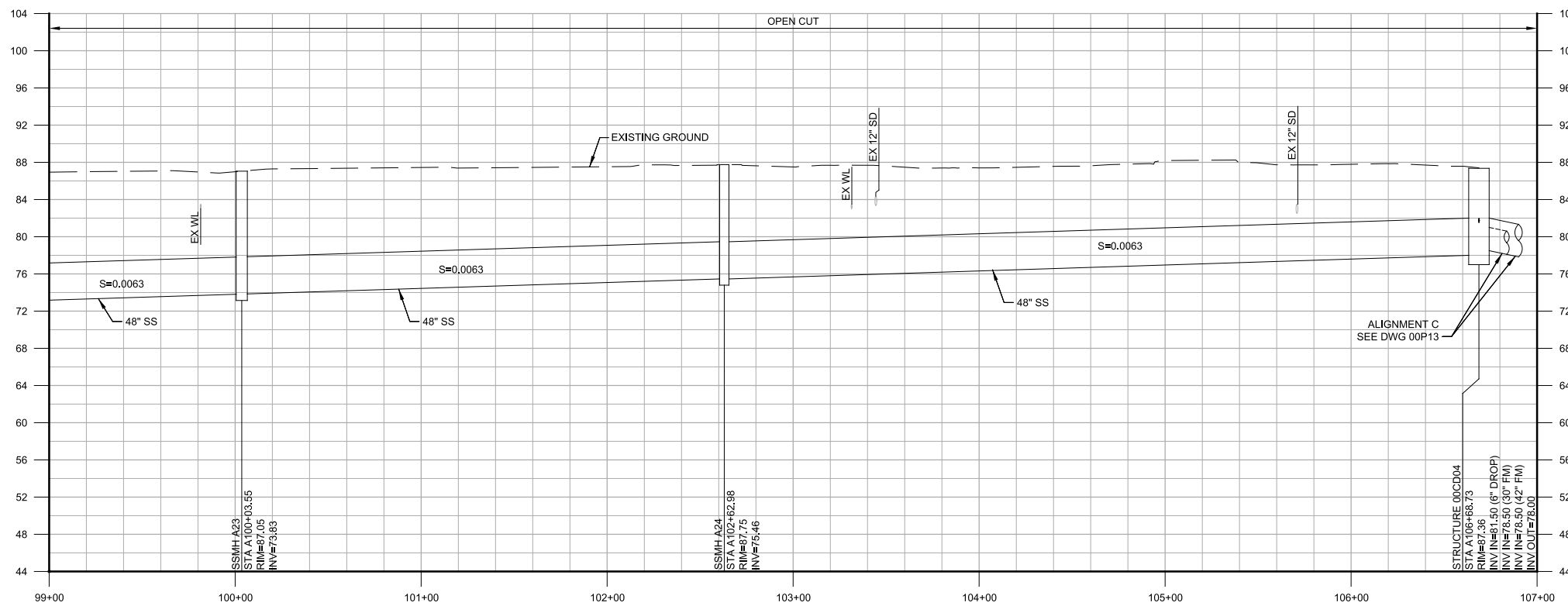
User: Bhawes

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905 - Civilpen\_PlotScale: 2:1

LAST SAVED BY: bhawes



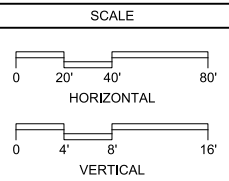
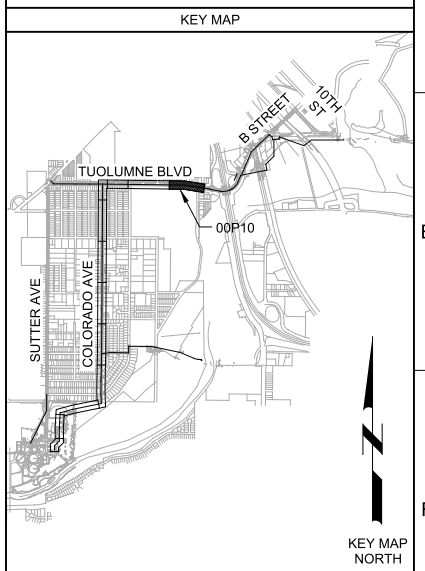
**PLAN**  
SCALE: 1"=40'  
FILE: 9551A10\_01C100



**PROFILE**  
HORIZ SCALE: 1"=40'  
VERT SCALE: 1"=8'  
FILE: 9551A10\_01C100

- GENERAL NOTES:**
- XXXX
  - XXXX
- KEY NOTES:**
- 1 XXXX

**Call before you Dig**  
Avoid cutting underground utility lines. It's costly.



**35% DESIGN  
NOT FOR CONSTRUCTION**

DESIGNED AP  
DRAWN BWH  
CHECKED SS  
DATE MARCH 2015



CITY OF MODESTO  
RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
CIVIL  
**PLAN AND PROFILE - ALIGNMENT A  
STA A99+00 TO A106+66.48**

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

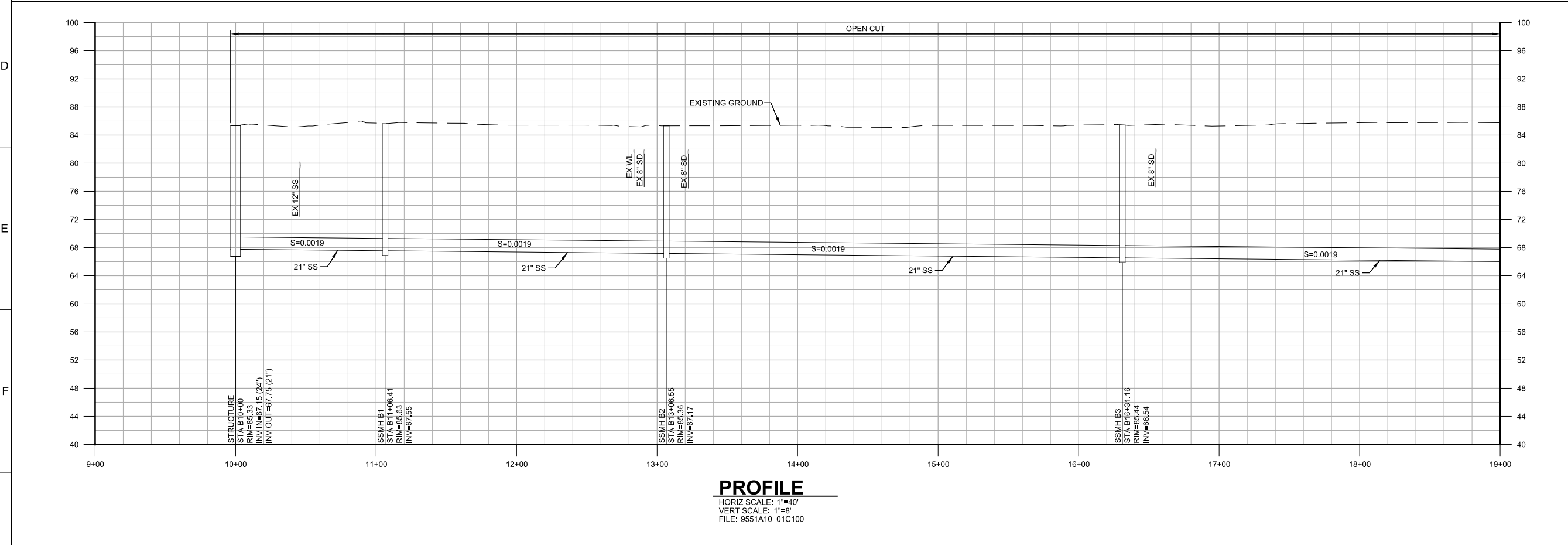
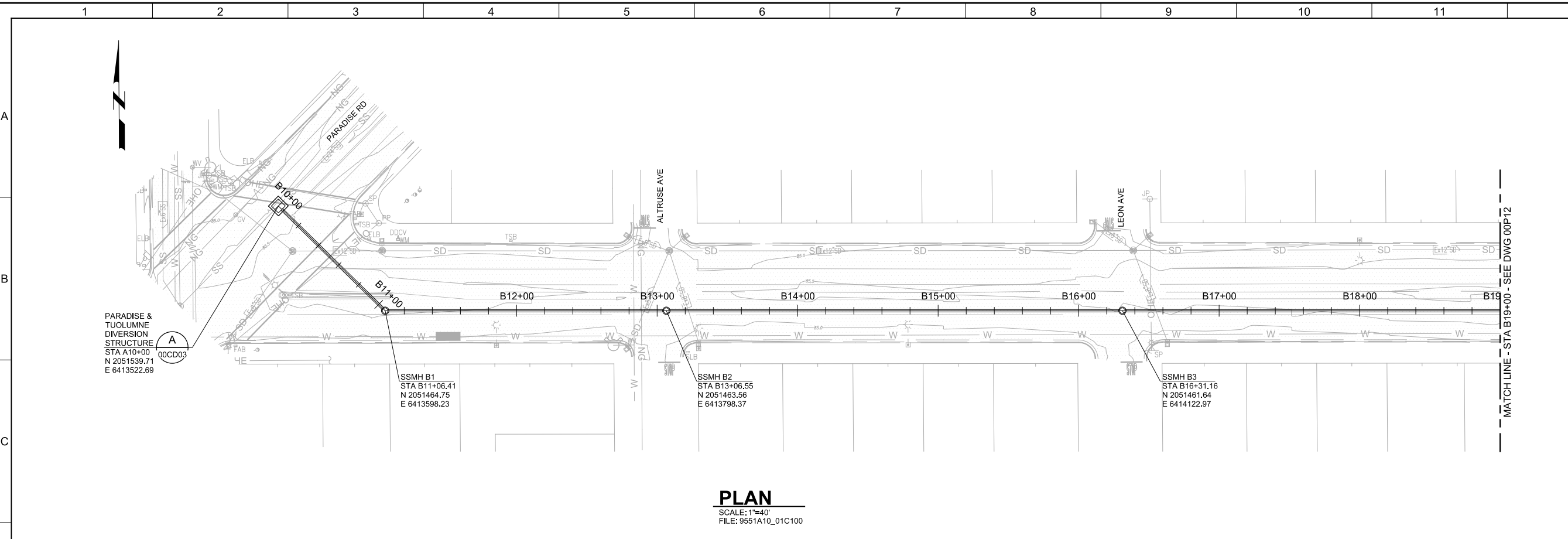
JOB NO. 9551A.00  
DRAWING NO. 00P10  
SHEET NO. X OF XX

Plot Date: 20-MAR-2015 8:02:45 AM

User: BHowes

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905 - Civilpen\_PlotScale: 2:1

LAST SAVED BY: bhowes



**GENERAL NOTES:**  
1. XXXX  
2. XXXX

**KEY NOTES:**  
1. XXXX

**Call before you Dig**  
Avoid cutting underground utility lines. It's costly.

**Call 811**  
OR  
1-800-227-2600

**KEY MAP**

**SCALE**

HORIZONTAL  
0 20' 40' 80'

VERTICAL  
0 4' 8' 16'

**KEY MAP NORTH**

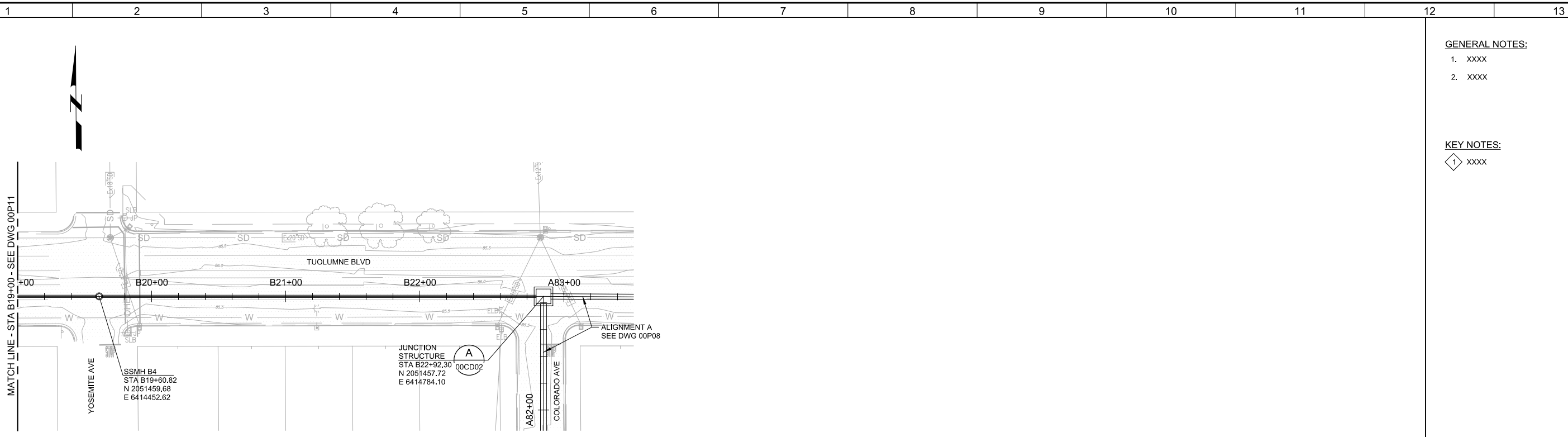
<p><b>35% DESIGN NOT FOR CONSTRUCTION</b></p>		<p>DESIGNED AP DRAWN BWH CHECKED SS DATE MARCH 2015</p>	<p>PROJECT ENGINEER ANNE E. PRUD'ERE No. 66246 CIVIL STATE OF CALIFORNIA</p>	<p>PROJECT MANAGER TIMOTHY F. TAYLOR No. 44975 CIVIL STATE OF CALIFORNIA</p>	<p>PRINCIPAL MICHAEL JAMES BRITTON No. 27729 CIVIL STATE OF CALIFORNIA</p>			<p>CITY OF MODESTO RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION CIVIL PLAN AND PROFILE - ALIGNMENT B STA B10+00 TO B19+00</p>	<p>VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</p>	<p>JOB NO. 9551A.00 DRAWING NO. 00P11 SHEET NO. X OF XX</p>
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Plot Date: 20-MAR-2015 9:03:18 AM

User: BHowes

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carroll\_Sld\_Pen\_v0905-Chilipen\_PlotScale: 2:1

LAST SAVED BY: bhowes



GENERAL NOTES:

- 1. xxxx
- 2. xxxx

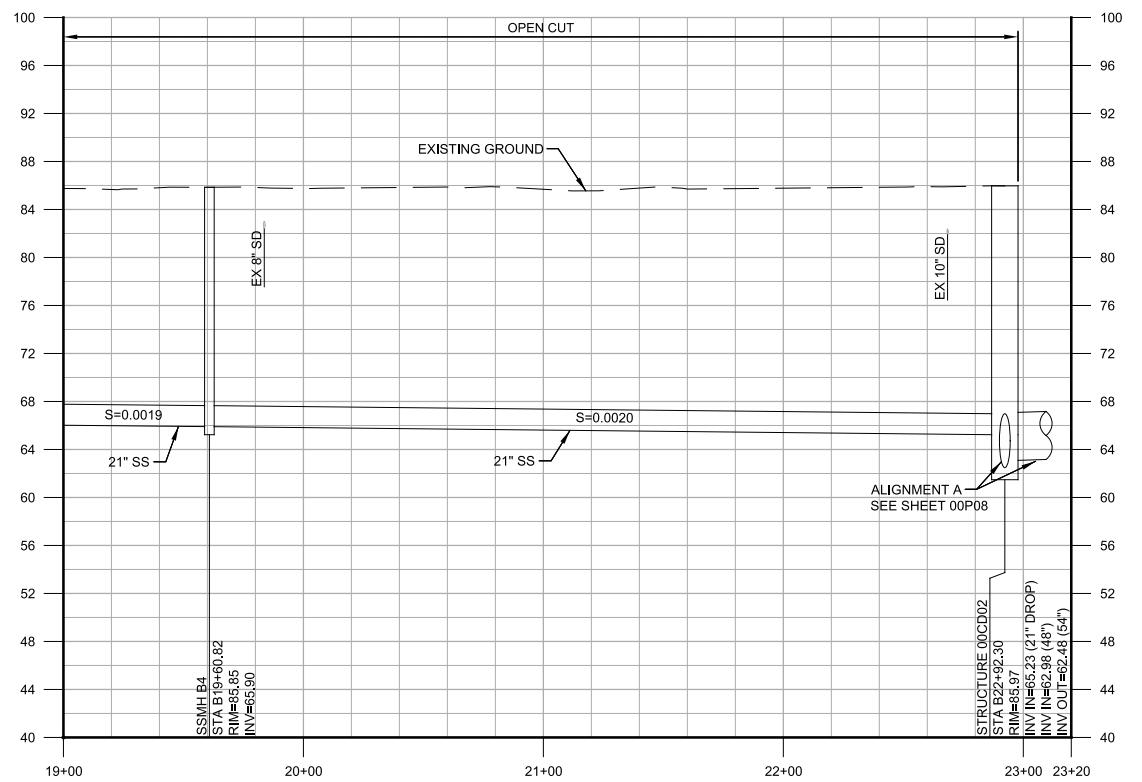
KEY NOTES:

- 1. xxxx

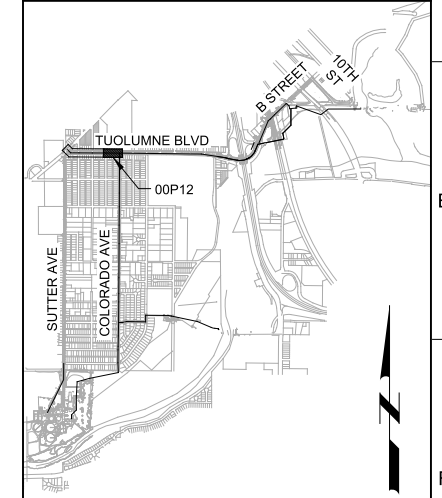
Call before you Dig  
Avoid cutting underground utility lines. It's costly.



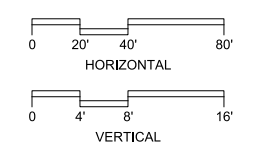
OR  
1-800-227-2600



KEY MAP

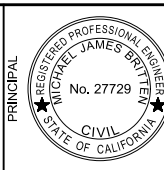


SCALE



**35% DESIGN  
NOT FOR CONSTRUCTION**

DESIGNED AP  
DRAWN BWH  
CHECKED SS  
DATE MARCH 2015



CITY OF MODESTO  
RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
CIVIL  
PLAN AND PROFILE - ALIGNMENT B  
STA B19+00 TO B22+92.30

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

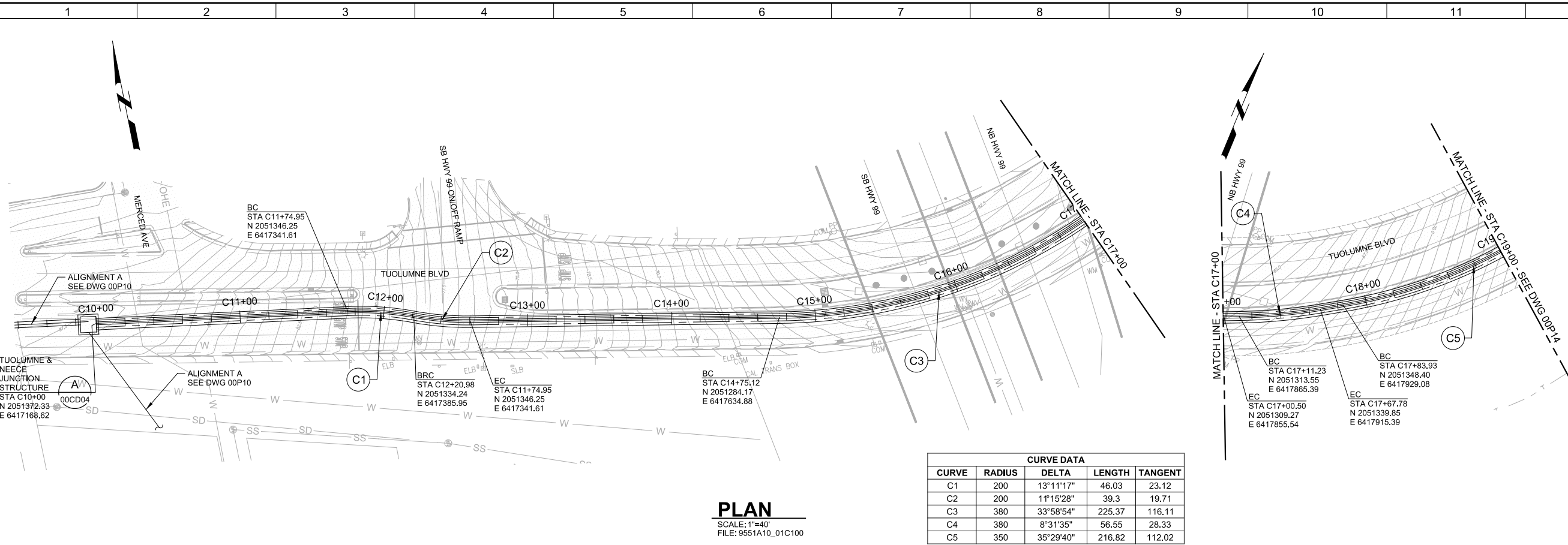
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DRAWING NO. 00P12  
SHEET NO. X OF XX

Plot Date: 20-MAR-2015 8:03:51 AM

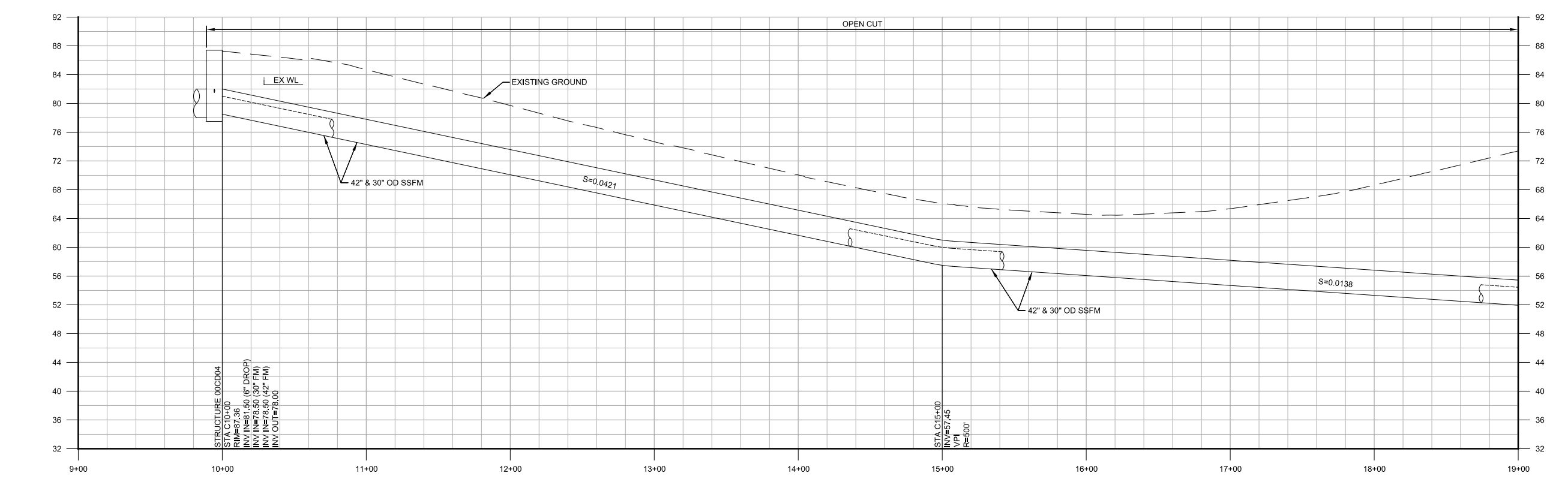
User: B\_haves

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905 - ChitPen\_PlotScale: 2:1

LAST SAVED BY: bhaves

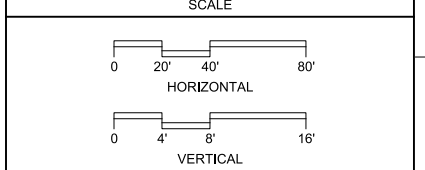
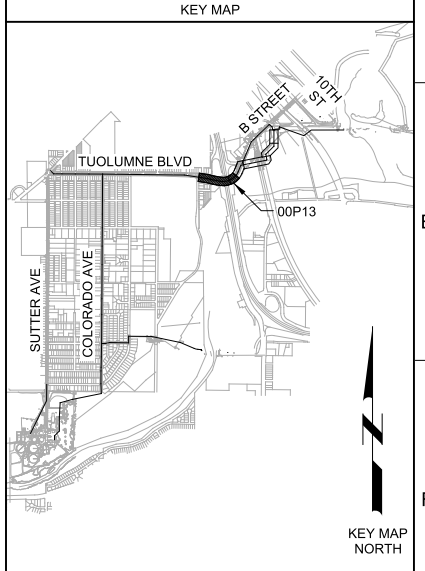


- GENERAL NOTES:**
- XXXX
  - XXXX
- KEY NOTES:**
- 1 XXXX



**Call before you Dig**  
Avoid cutting underground utility lines. It's costly.

**Call 811**  
OR  
1-800-227-2600



**35% DESIGN NOT FOR CONSTRUCTION**

REV	DATE	BY	DESCRIPTION
1			
2			

DESIGNED AP			
DRAWN BWH			
CHECKED SS			
DATE MARCH 2015			

**carollo**

**MODESTO CALIFORNIA**

**CITY OF MODESTO**

**RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION**

CIVIL

**PLAN AND PROFILE - ALIGNMENT C**  
STA C10+00 TO C19+00

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

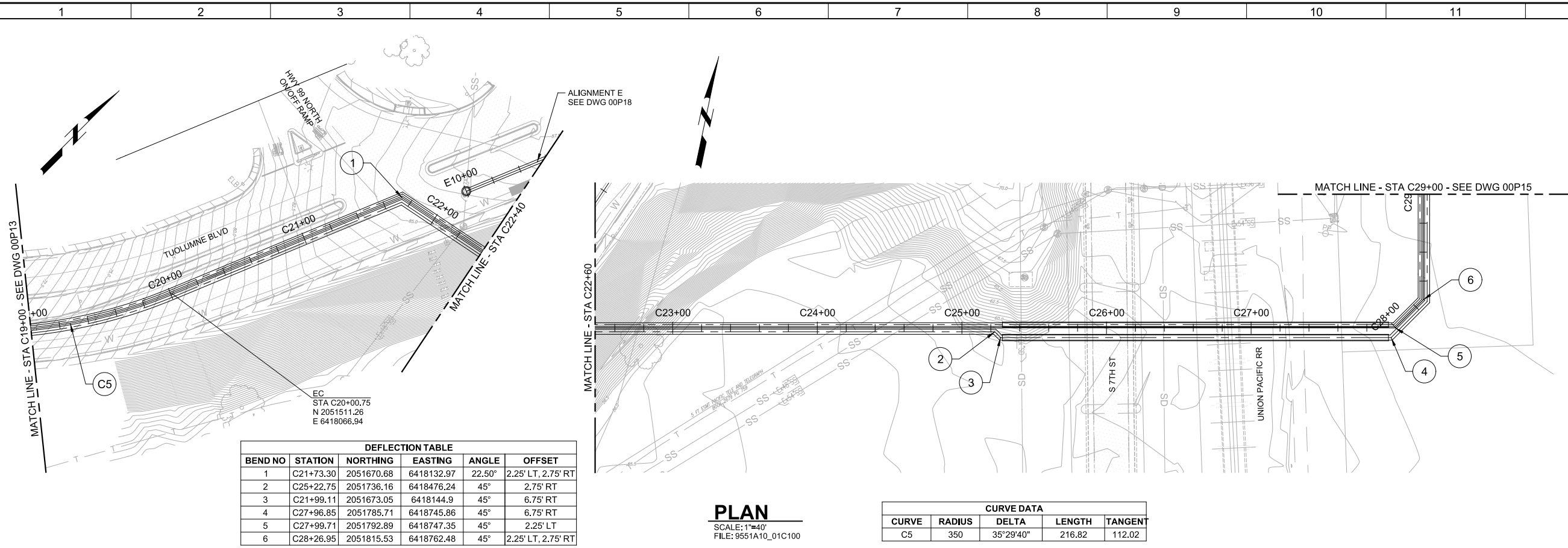
JOB NO. 9551A.00  
DRAWING NO. 00P13  
SHEET NO. X OF XX

Plot Date: 20-MAR-2015 8:04:52 AM

User: B\_haves

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carroll\_Sld\_Pen\_v0905 - Civilpen\_PlotScale: 2:1

LAST SAVED BY: bhaves



**DEFLECTION TABLE**

BEND NO	STATION	NORTHING	EASTING	ANGLE	OFFSET
1	C21+73.30	2051670.68	6418132.97	22.50°	2.25' LT, 2.75' RT
2	C25+22.75	2051736.16	6418476.24	45°	2.75' RT
3	C21+99.11	2051673.05	6418144.9	45°	6.75' RT
4	C27+96.85	2051785.71	6418745.86	45°	6.75' RT
5	C27+99.71	2051792.89	6418747.35	45°	2.25' LT
6	C28+26.95	2051815.53	6418762.48	45°	2.25' LT, 2.75' RT

**PLAN**  
 SCALE: 1"=40'  
 FILE: 9551A10\_01C100

**CURVE DATA**

CURVE	RADIUS	DELTA	LENGTH	TANGENT
C5	350	35°29'40"	216.82	112.02

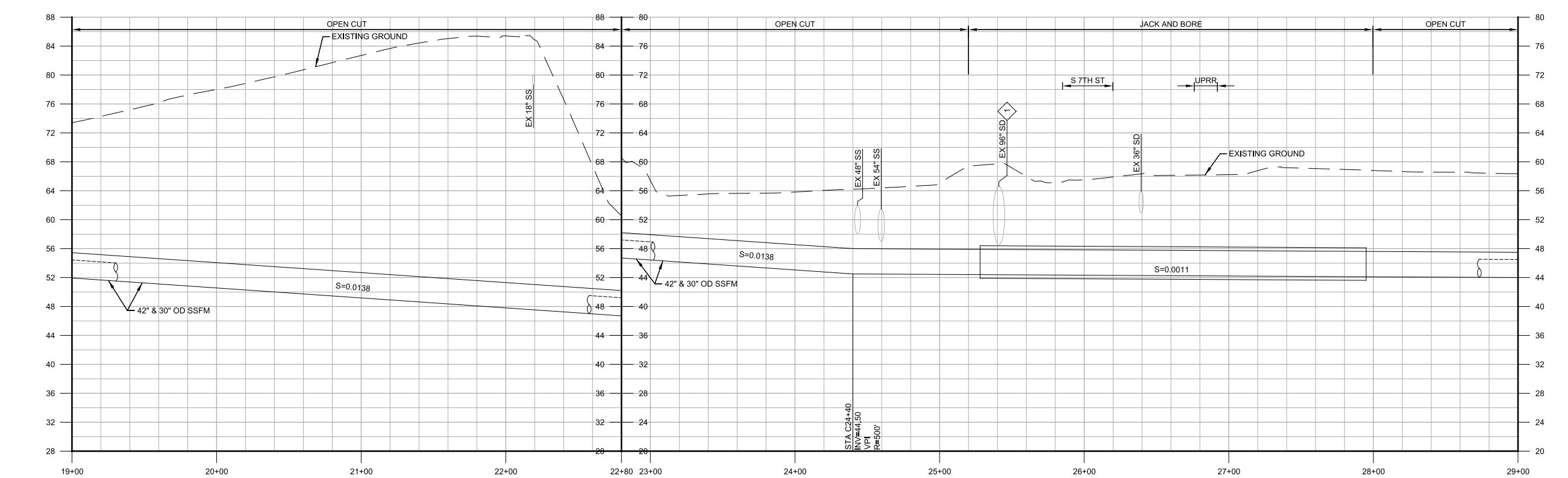
**GENERAL NOTES:**

- XXXX
- XXXX

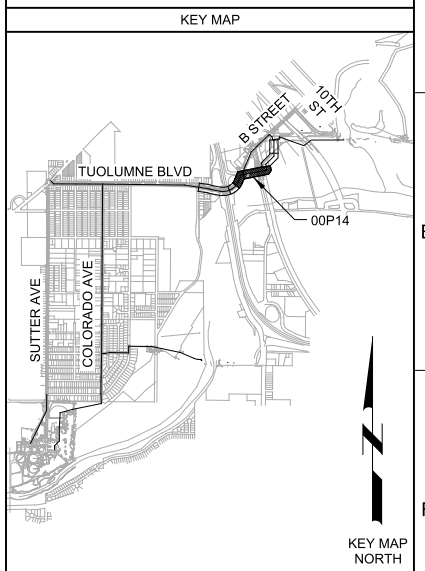
**KEY NOTES:**

- 1 ELEV OF EX SD TO BE CONFIRMED DURING FINAL DESIGN. PROFILE OF SSSFM WILL BE ADJUSTED AS NECESSARY.

**Call before you Dig**  
 Avoid cutting underground utility lines. It's costly.



**PROFILE**  
 HORIZ SCALE: 1"=40'  
 VERT SCALE: 1"=8'  
 FILE: 9551A10\_01C100



**35% DESIGN NOT FOR CONSTRUCTION**

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED AP  
 DRAWN BWH  
 CHECKED SS  
 DATE MARCH 2015

PROJECT ENGINEER: ANNE E. PRODDER, No. 66246, CIVIL, STATE OF CALIFORNIA

PROJECT MANAGER: TIMOTHY F. TAYLOR, No. 44975, CIVIL, STATE OF CALIFORNIA

PRINCIPAL: MICHAEL JAMES BRITTON, No. 27729, CIVIL, STATE OF CALIFORNIA

**carollo**

MODESTO CALIFORNIA

CITY OF MODESTO

RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION

CIVIL

PLAN AND PROFILE - ALIGNMENT C  
 STA C19+00 TO C29+00

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 9551A.00

DRAWING NO. 00P14

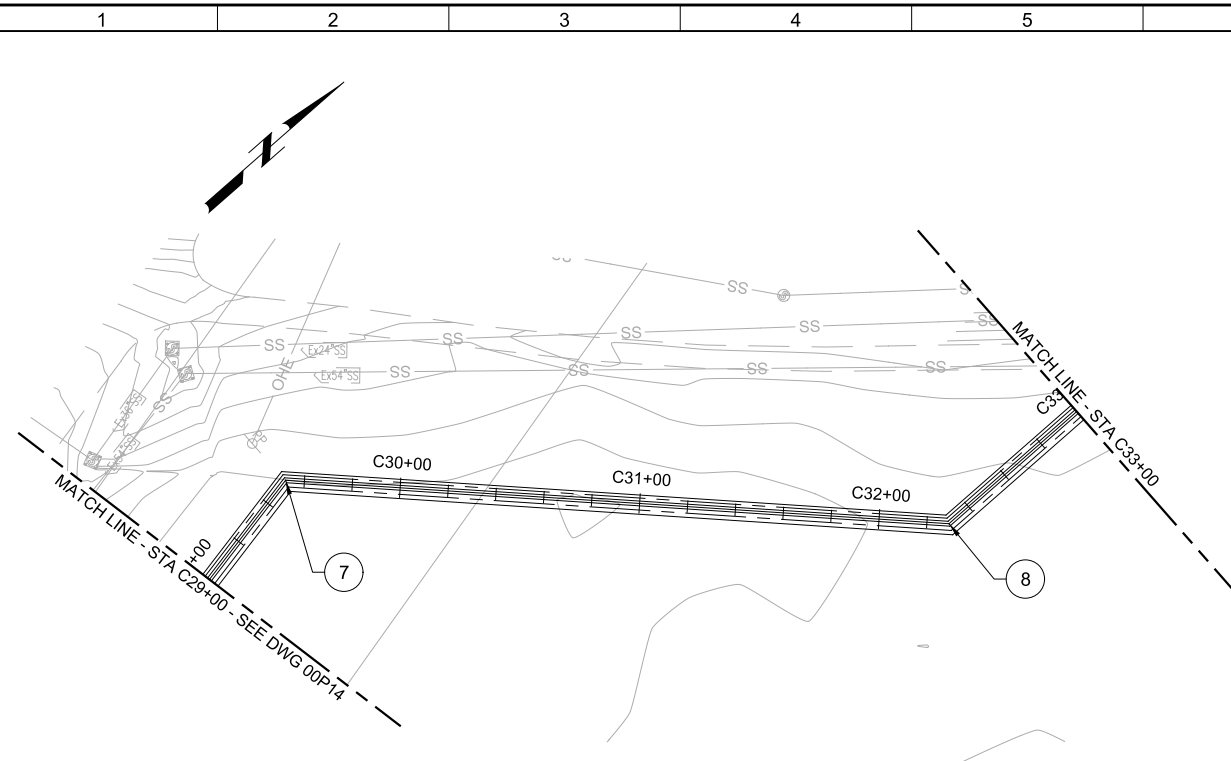
SHEET NO. X OF XX

Plot Date: 20-MAR-2015 9:05:41 AM

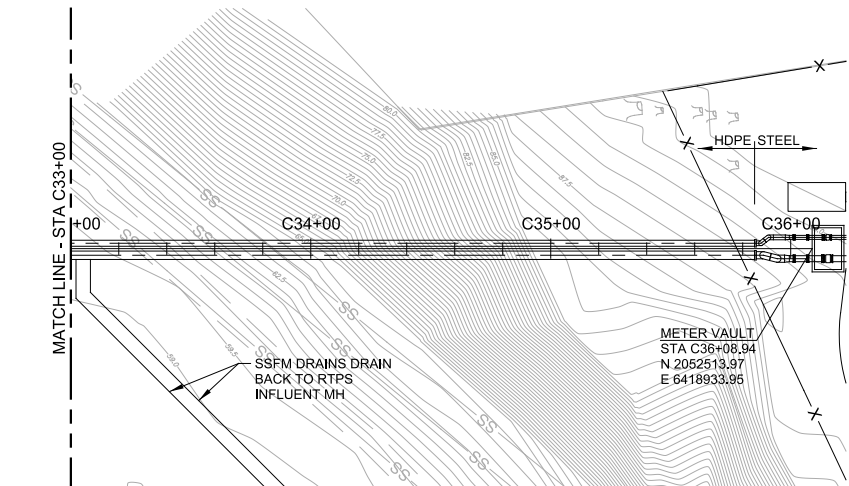
User: BHawes

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905-Chilipen\_PlotScale: 2:1

LAST SAVED BY: bhawes

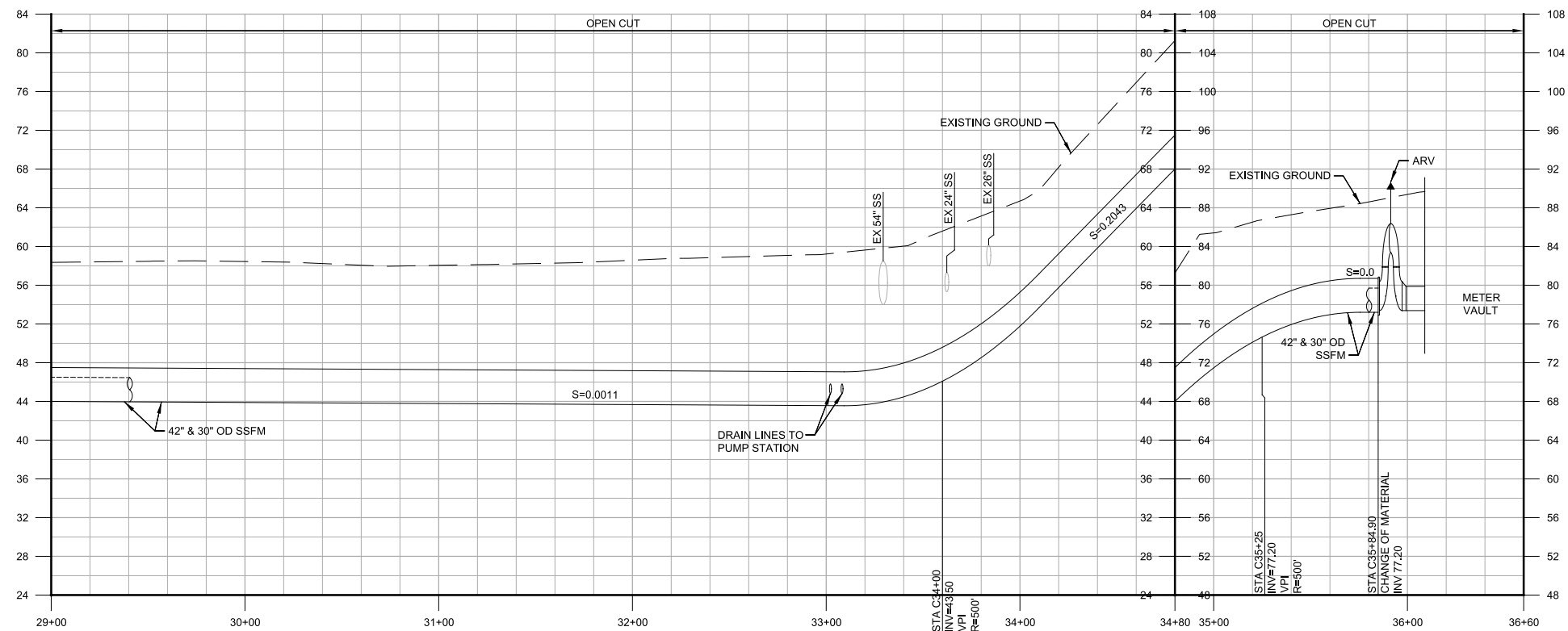


**PLAN**  
SCALE: 1"=40'  
FILE: 9551A10\_01C100



BEND NO	STATION	NORTHING	EASTING	ANGLE	OFFSET
7	C29+52.13	2051938.31	6418738.06	45°	2.25' LT, 2.75' RT
8	C32+29.17	2052134.21	6418933.95	45°	2.25' LT, 2.75' RT

- GENERAL NOTES:**
- XXXX
  - XXXX
- KEY NOTES:**
- 1 XXXX

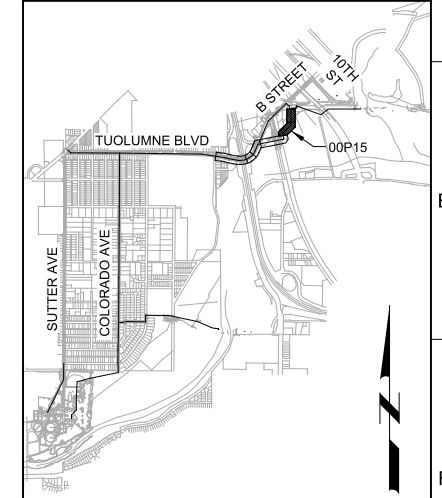


**PROFILE**  
HORIZ SCALE: 1"=40'  
VERT SCALE: 1"=8'  
FILE: 9551A10\_01C100

**Call before you Dig**  
Avoid cutting underground utility lines. It's costly.

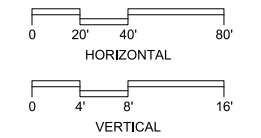


KEY MAP



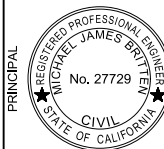
KEY MAP NORTH

SCALE



**35% DESIGN  
NOT FOR CONSTRUCTION**

DESIGNED AP  
DRAWN BWB  
CHECKED SS  
DATE MARCH 2015



CITY OF MODESTO  
RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
CIVIL  
PLAN AND PROFILE - ALIGNMENT C  
STA C29+00 TO C36+08.94

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

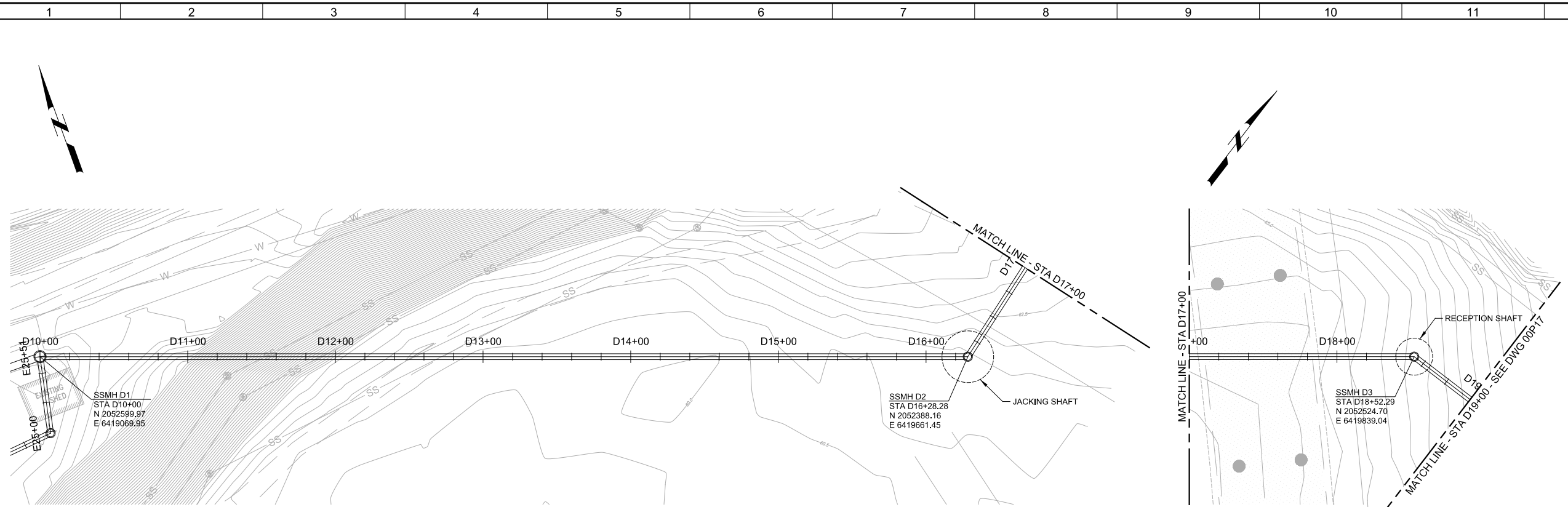
JOB NO. 9551A.00  
DRAWING NO. 00P15  
SHEET NO. X OF XX

Plot Date: 20-MAR-2015 8:06:25 AM

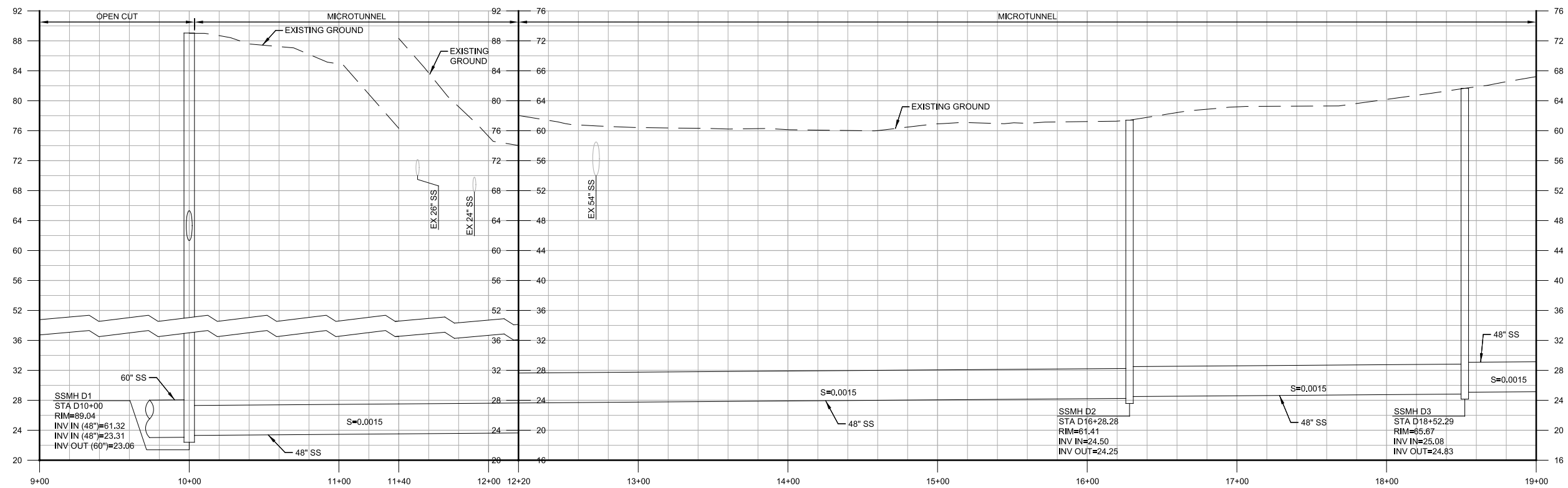
User: BHowes

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905 - ChitPen\_PlotScale: 2:1

LAST SAVED BY: bhowes



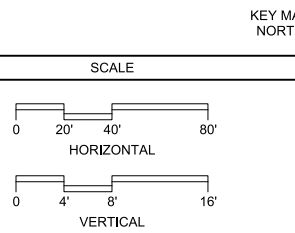
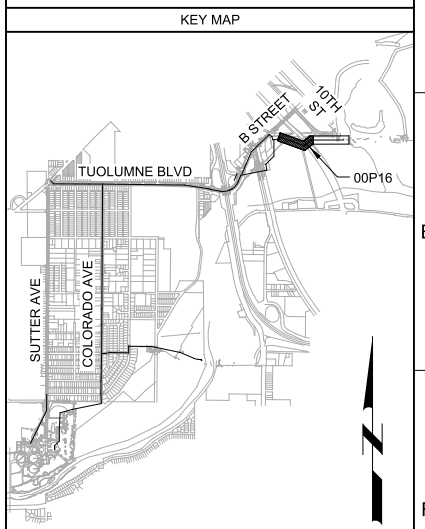
**PLAN**  
 SCALE: 1"=40'  
 FILE: 9551A10\_01C100



**PROFILE**  
 HORIZ SCALE: 1"=40'  
 VERT SCALE: 1"=8'  
 FILE: 9551A10\_01C100

- GENERAL NOTES:**
- XXXX
  - XXXX
- KEY NOTES:**
- 1 XXXX

**Call before you Dig**  
 Avoid cutting underground utility lines. It's costly.



<b>35% DESIGN NOT FOR CONSTRUCTION</b>			
DESIGNED	AP		
DRAWN	BWH		
CHECKED	SS		
DATE	MARCH 2015		
REV	DATE	BY	DESCRIPTION
1			
2			

PROJECT ENGINEER: ANNE E. PRODDER, REGISTERED PROFESSIONAL ENGINEER, CIVIL, STATE OF CALIFORNIA, No. 66246

PROJECT MANAGER: TIMOTHY F. TAYLOR, REGISTERED PROFESSIONAL ENGINEER, CIVIL, STATE OF CALIFORNIA, No. 44975

PRINCIPAL: MICHAEL JAMES BRITTON, REGISTERED PROFESSIONAL ENGINEER, CIVIL, STATE OF CALIFORNIA, No. 27729



CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 CIVIL  
**PLAN AND PROFILE - ALIGNMENT D**  
 STA D10+00 TO D19+00

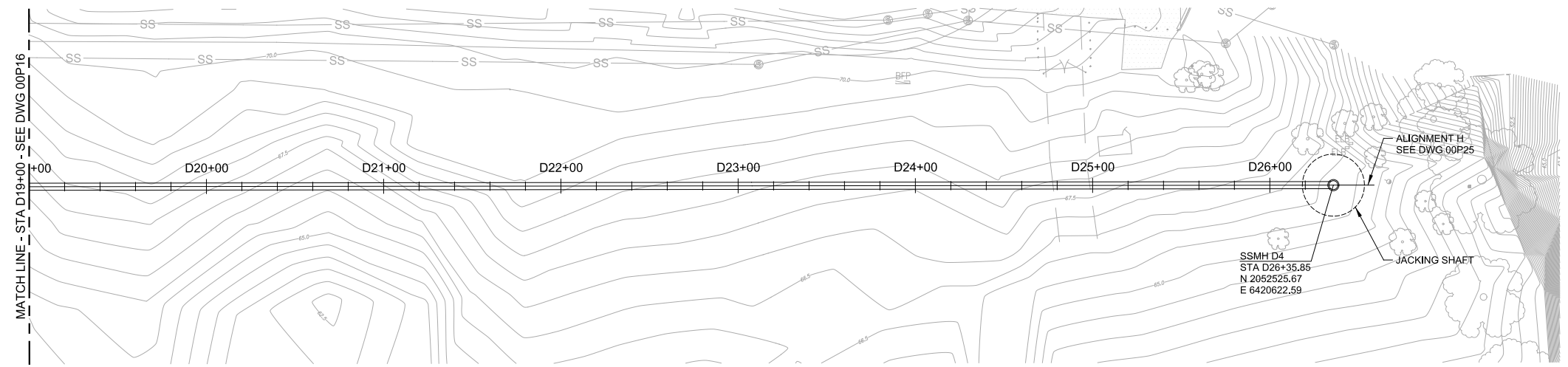
VERIFY SCALES	JOB NO. 9551A.00
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 00P16
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. X OF XX

Plot Date: 20-MAR-2015 9:07:12 AM

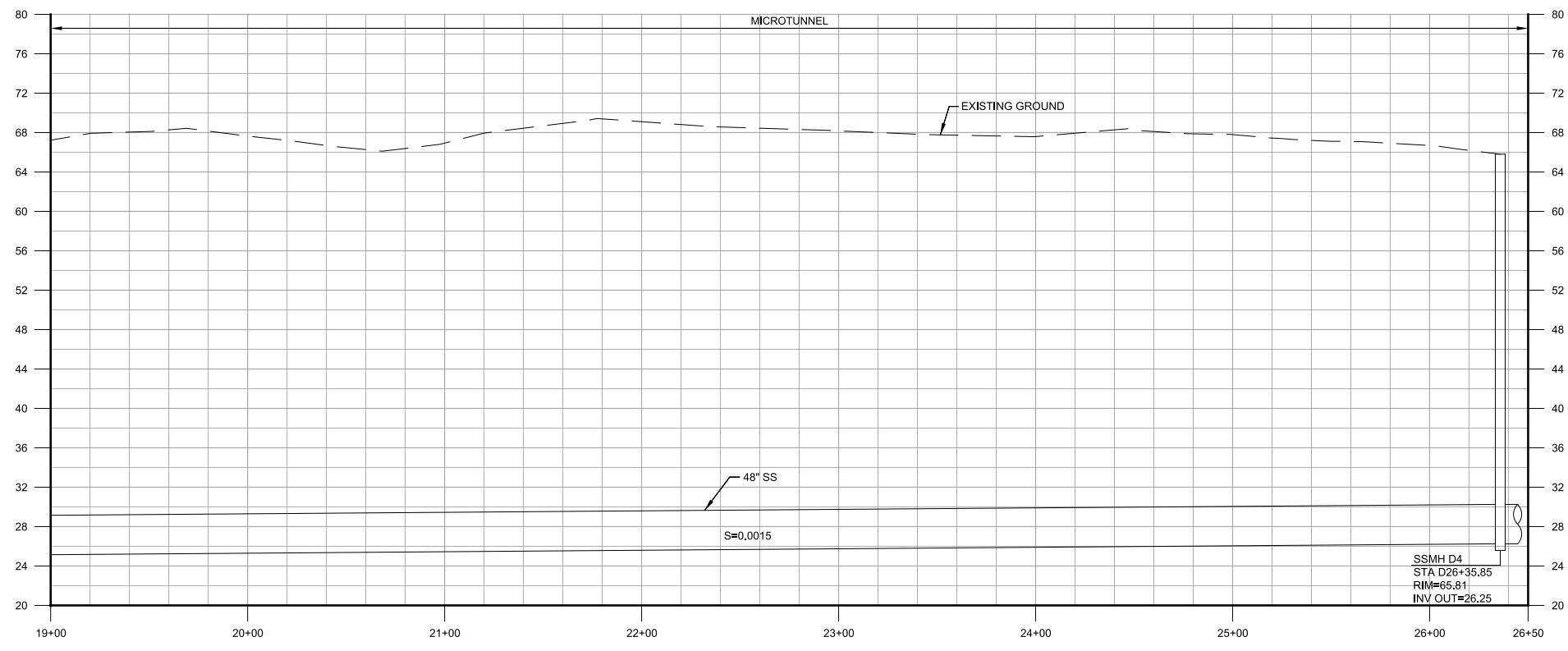
User: BHowes

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905 - Civilpen PlotScale: 2:1

LAST SAVED BY: bhowes



PLAN  
SCALE: 1"=40'  
FILE: 9551A10\_01C100



PROFILE  
HORIZ SCALE: 1"=40'  
VERT SCALE: 1"=8'  
FILE: 9551A10\_01C100

GENERAL NOTES:

- 1. xxxx
- 2. xxxx

KEY NOTES:

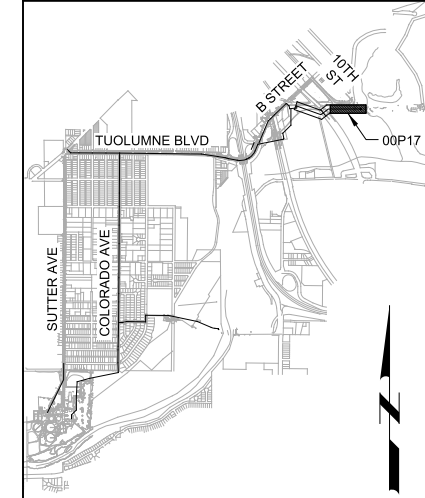
- 1. xxxx

Call before you Dig  
Avoid cutting underground utility lines. It's costly.



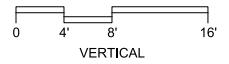
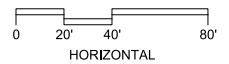
OR  
1-800-227-2600

KEY MAP



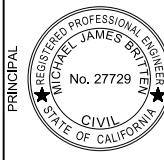
KEY MAP NORTH

SCALE



35% DESIGN  
NOT FOR CONSTRUCTION

DESIGNED AP  
DRAWN BWH  
CHECKED SS  
DATE MARCH 2015



CITY OF MODESTO  
RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION

CIVIL  
PLAN AND PROFILE - ALIGNMENT D  
STA D19+00 TO D26+35.85

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1"

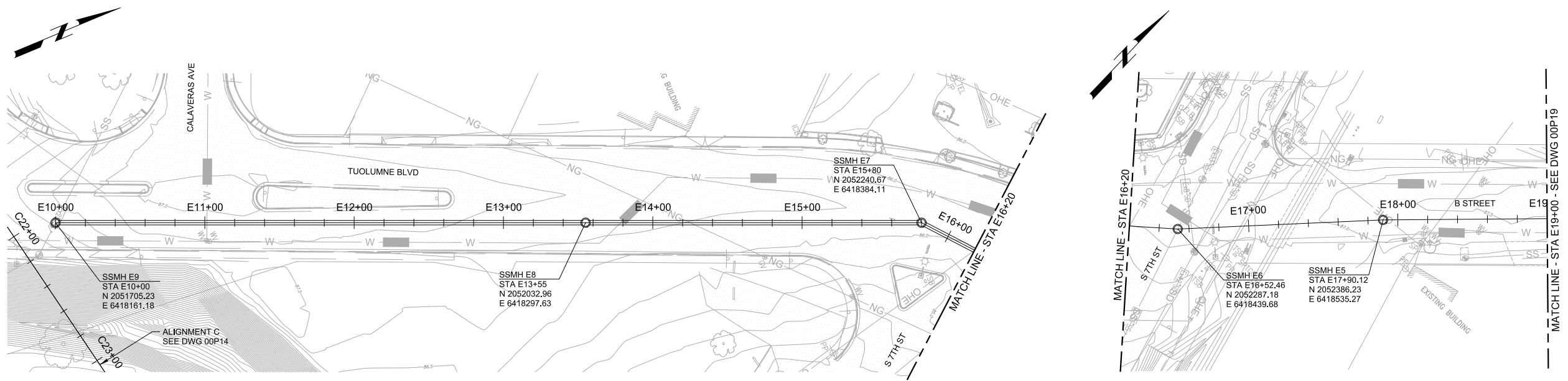
JOB NO. 9551A.00  
DRAWING NO. 00P17  
SHEET NO. X OF XX

Plot Date: 20-MAR-2015 9:07:45 AM

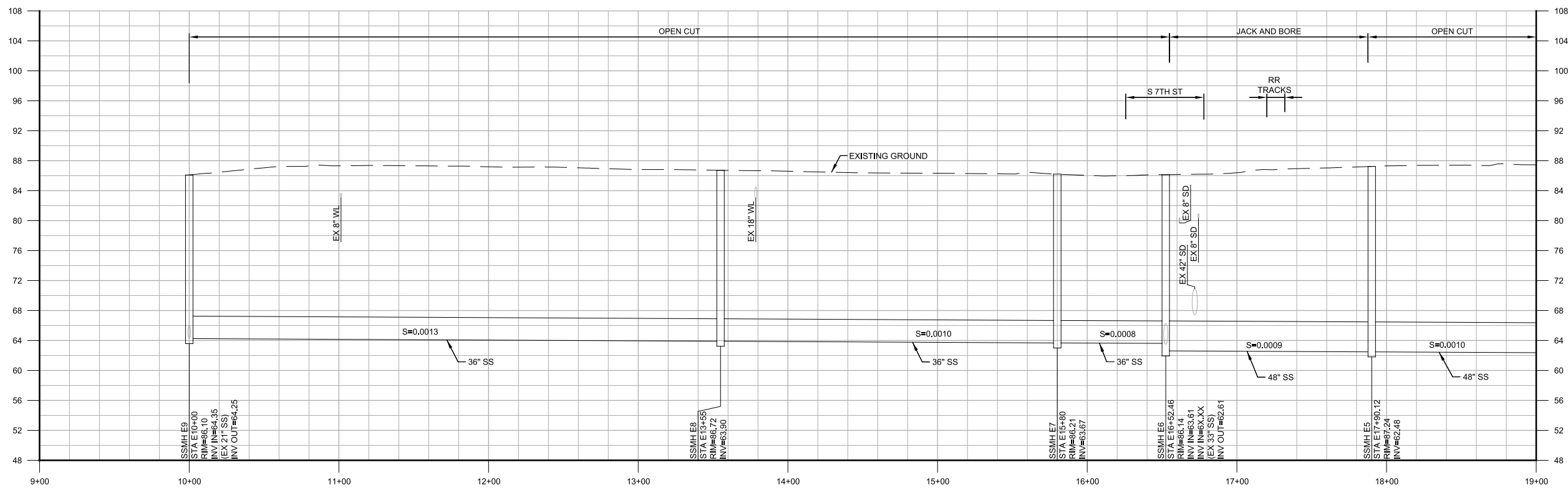
User: B\_haves

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905 - CivilPen\_PlotScale: 2:1

LAST SAVED BY: bhaves



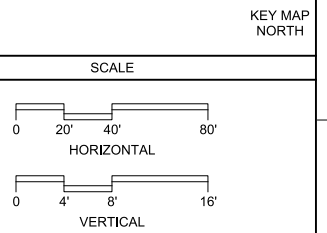
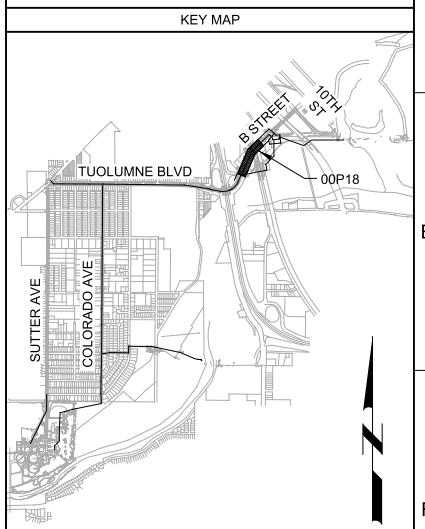
**PLAN**  
 SCALE: 1"=40'  
 FILE: 9551A10\_01C100



**PROFILE**  
 HORIZ SCALE: 1"=40'  
 VERT SCALE: 1"=8'  
 FILE: 9551A10\_01C100

- GENERAL NOTES:**
- XXXX
  - XXXX
- KEY NOTES:**
- 1 XXXX

**Call before you Dig**  
 Avoid cutting underground utility lines. It's costly.



<b>35% DESIGN NOT FOR CONSTRUCTION</b>			
DESIGNED AP	DRAWN BWH	CHECKED SS	DATE MARCH 2015
PROJECT ENGINEER	PROJECT ENGINEER	PROJECT ENGINEER	PROJECT ENGINEER
ANNE E. PRUD'ERE No. 66246 CIVIL STATE OF CALIFORNIA	TIMOTHY F. TAYLOR No. 44975 CIVIL STATE OF CALIFORNIA	MICHAEL JAMES BRITTON No. 27729 CIVIL STATE OF CALIFORNIA	
REV	DATE	BY	DESCRIPTION
1			
2			

**carollo**

**MODESTO CALIFORNIA**

**CITY OF MODESTO**

**RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION**

CIVIL

**PLAN AND PROFILE - ALIGNMENT E  
STA E10+00 TO E19+00**

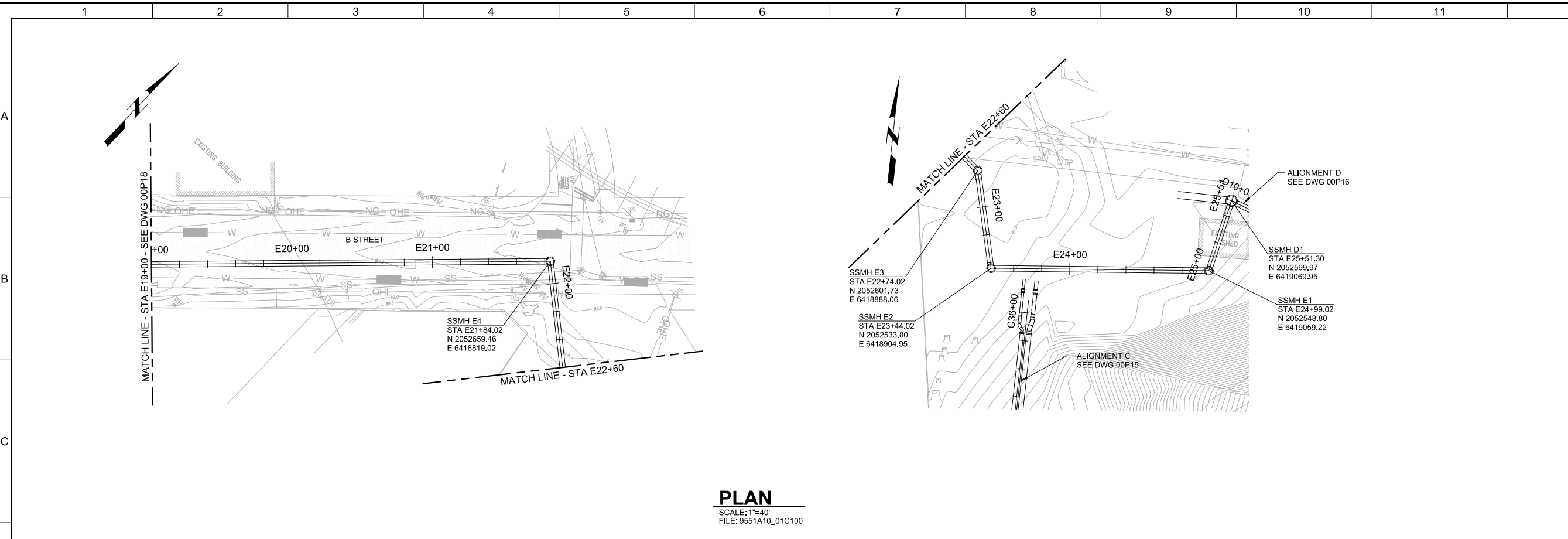
VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 9551A.00
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. <b>00P18</b>
	SHEET NO. X OF XX

Plot Date: 20-MAR-2015 8:08:21 AM

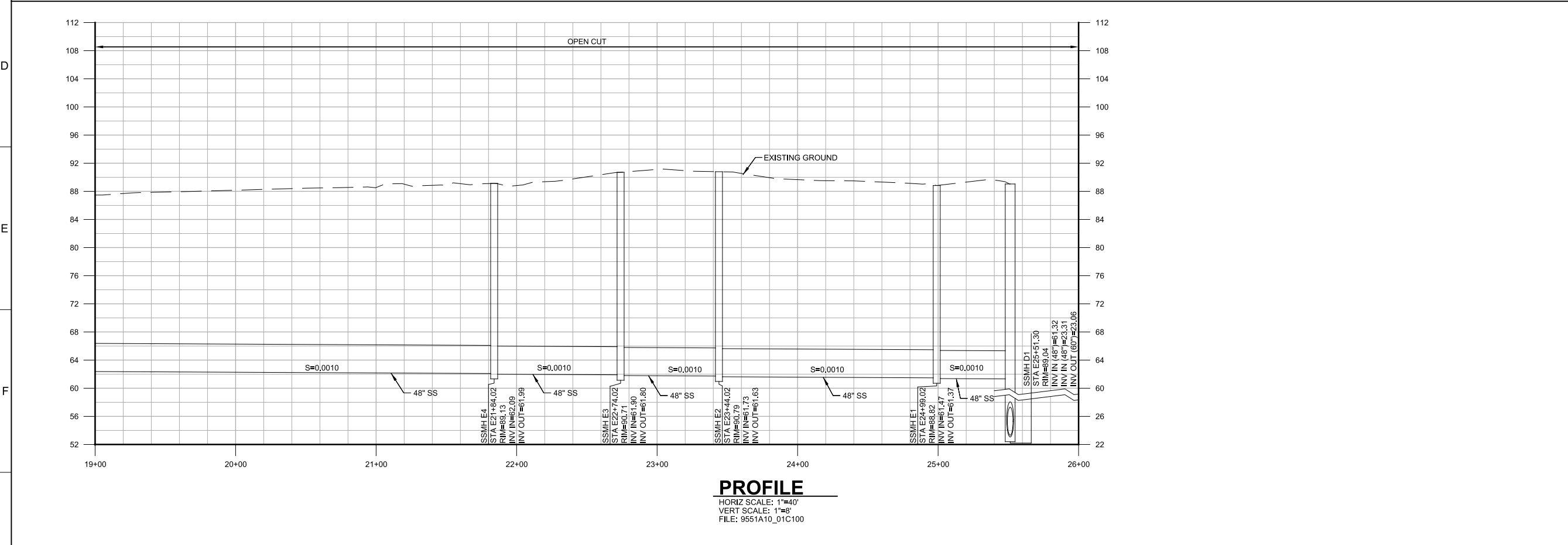
User: BHowes

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905 - Civilpen\_PlotScale: 2:1

LAST SAVED BY: bhowes



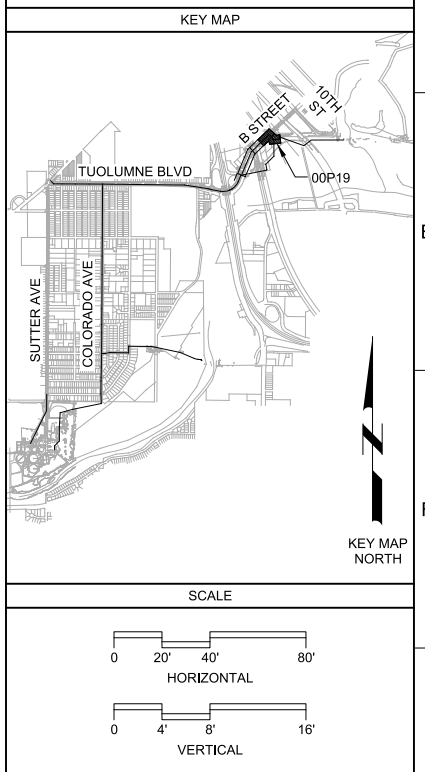
**PLAN**  
 SCALE: 1"=40'  
 FILE: 9551A10\_01C100



**PROFILE**  
 HORIZ SCALE: 1"=40'  
 VERT SCALE: 1"=8'  
 FILE: 9551A10\_01C100

- GENERAL NOTES:**
- XXXX
  - XXXX
- KEY NOTES:**
- 1 XXXX

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<b>35% DESIGN NOT FOR CONSTRUCTION</b>			
DESIGNED AP		PROJECT ENGINEER	
DRAWN BWH		PROJECT MANAGER	
CHECKED SS		PRINCIPAL	
DATE MARCH 2015			
REV	DATE	BY	DESCRIPTION
1			

--	--

CITY OF MODESTO

RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION

CIVIL

**PLAN AND PROFILE - ALIGNMENT E  
 STA E19+00 TO E25+1.30**

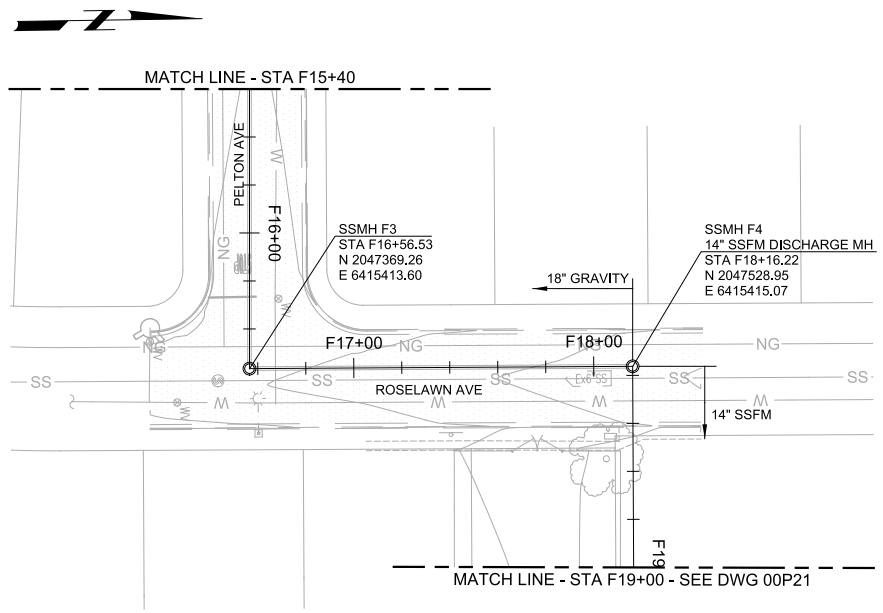
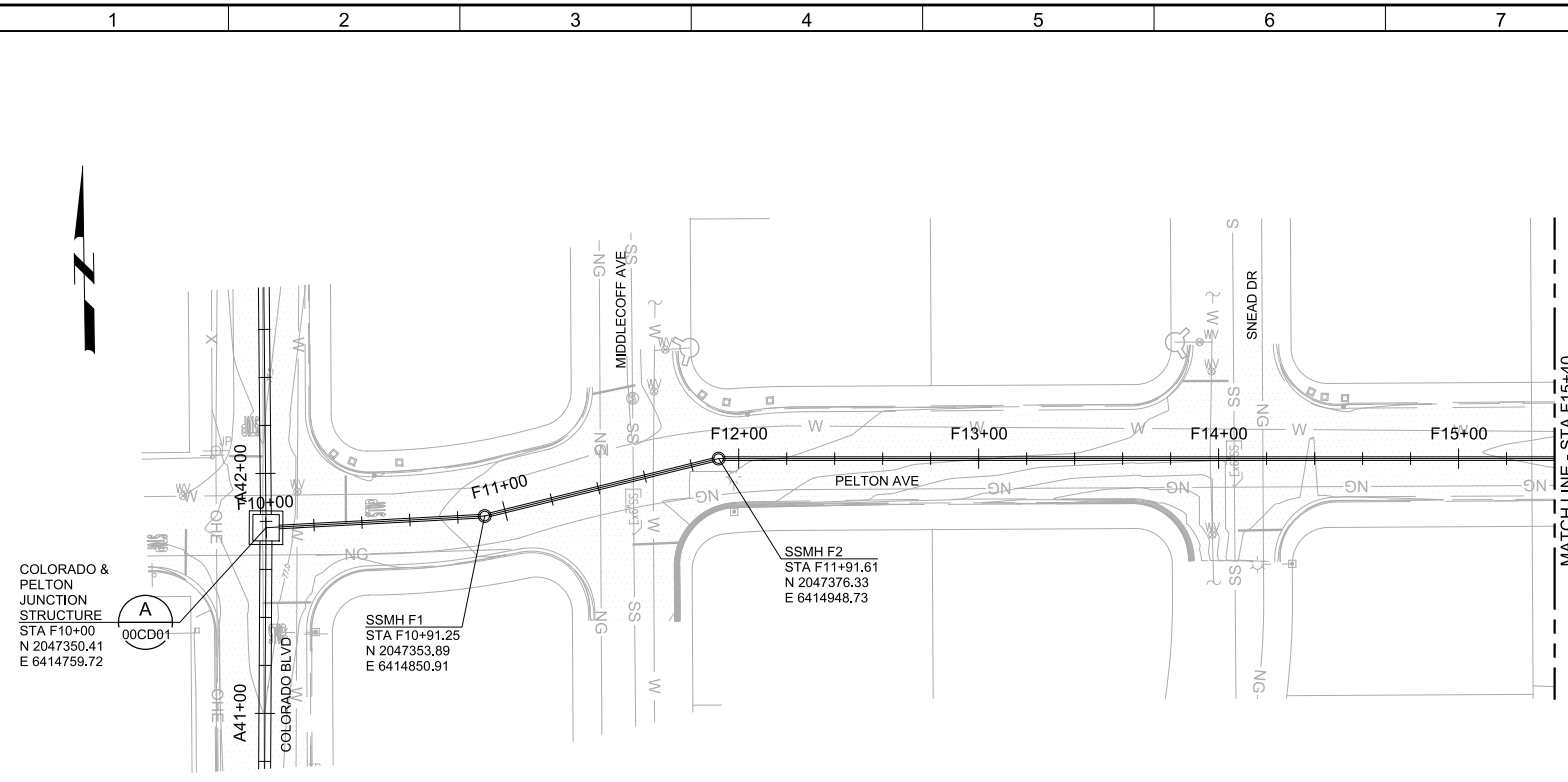
VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING	JOB NO. 9551A.00
0 1"	DRAWING NO. 00P19
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. X OF XX

Plot Date: 20-MAR-2015 8:09:00 AM

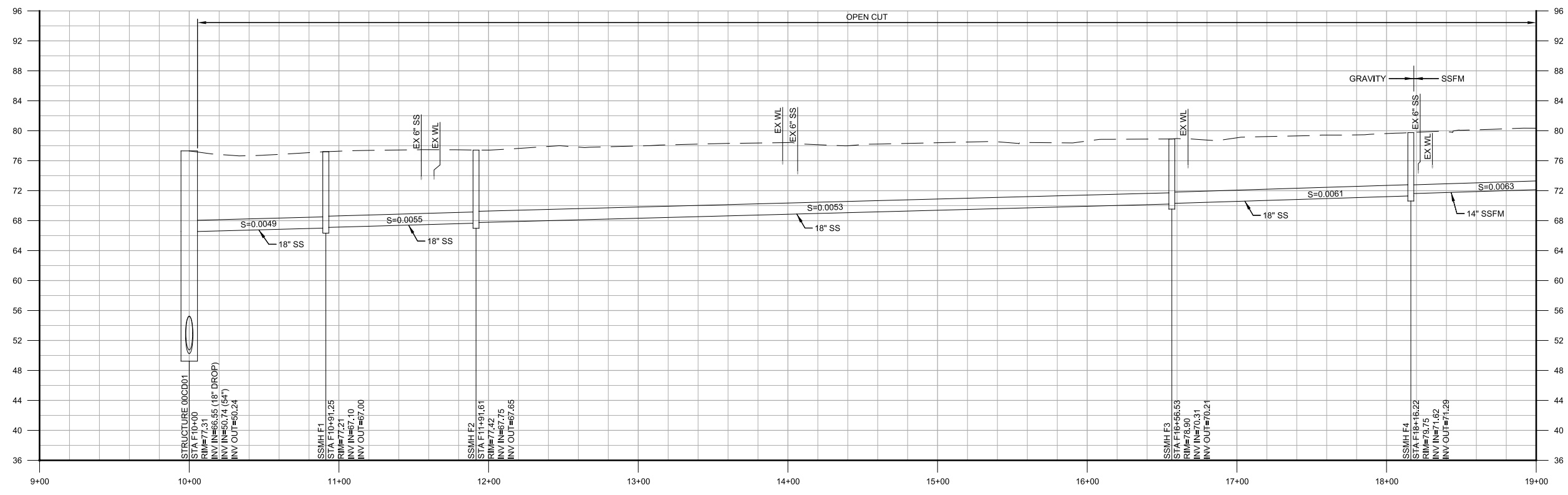
User: Bhowes

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carallo\_Std\_Pen\_v0905-Chilipen\_PlotScale: 2:1

LAST SAVED BY: bhowes



**PLAN**  
SCALE: 1"=40'  
FILE: 9551A10\_01C100



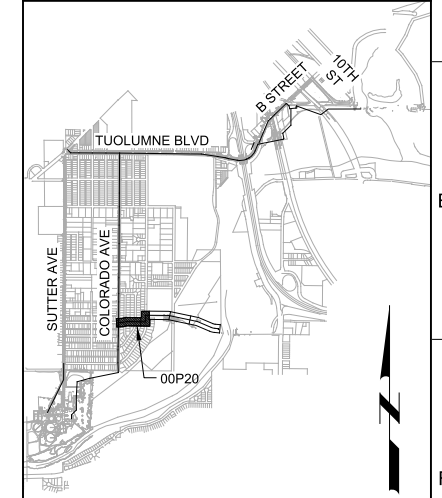
**PROFILE**  
HORIZ SCALE: 1"=40'  
VERT SCALE: 1"=8'  
FILE: 9551A10\_01C100

- GENERAL NOTES:**
- XXXX
  - XXXX
- KEY NOTES:**
- 1 XXXX

**Call before you Dig**  
Avoid cutting underground utility lines. It's costly.

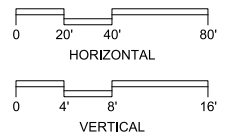


KEY MAP



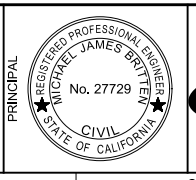
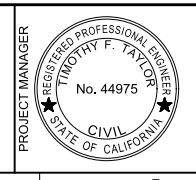
KEY MAP NORTH

SCALE



**35% DESIGN  
NOT FOR CONSTRUCTION**

DESIGNED	AP
DRAWN	BWH
CHECKED	SS
DATE	MARCH 2015



CITY OF MODESTO  
RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
CIVIL  
**PLAN AND PROFILE - ALIGNMENT F  
STA F10+00 TO F19+00**

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

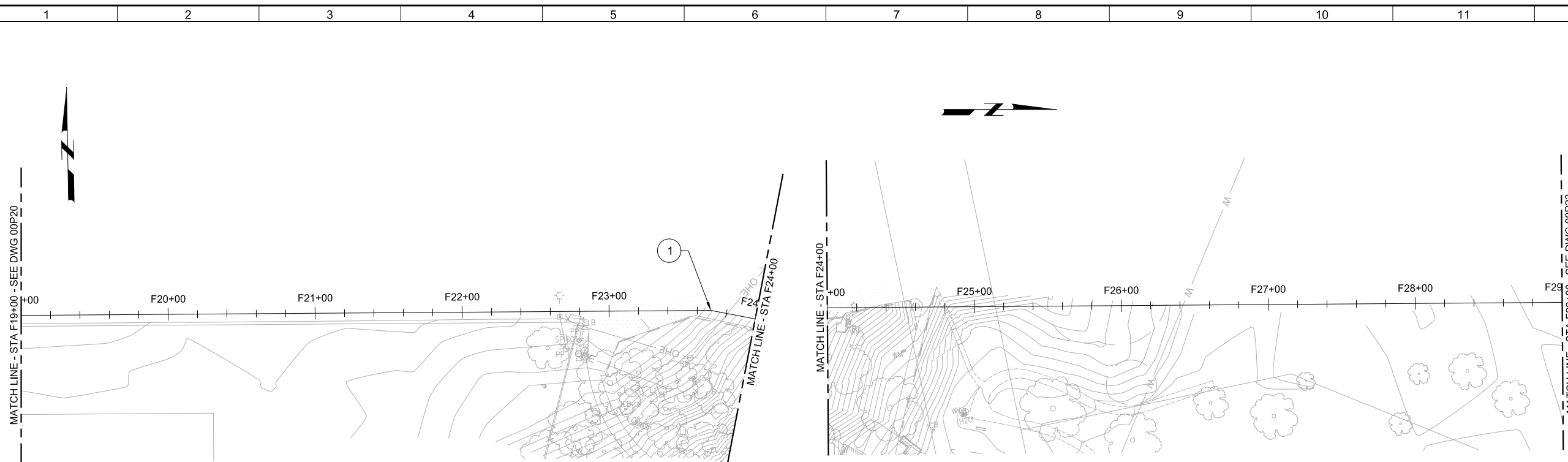
JOB NO. 9551A.00  
DRAWING NO. 00P20  
SHEET NO. X OF XX

Plot Date: 20-MAR-2015 8:09:37 AM

User: B.Haves

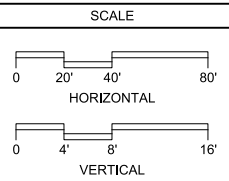
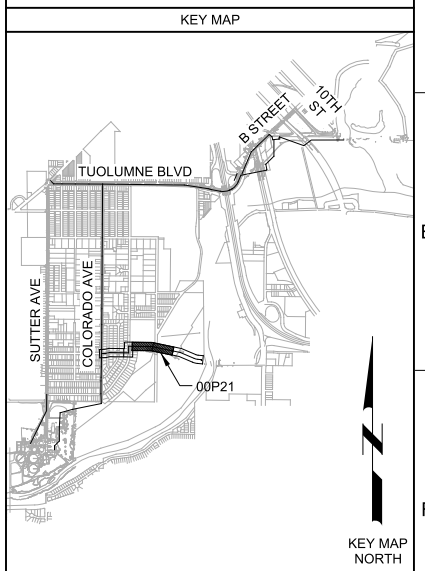
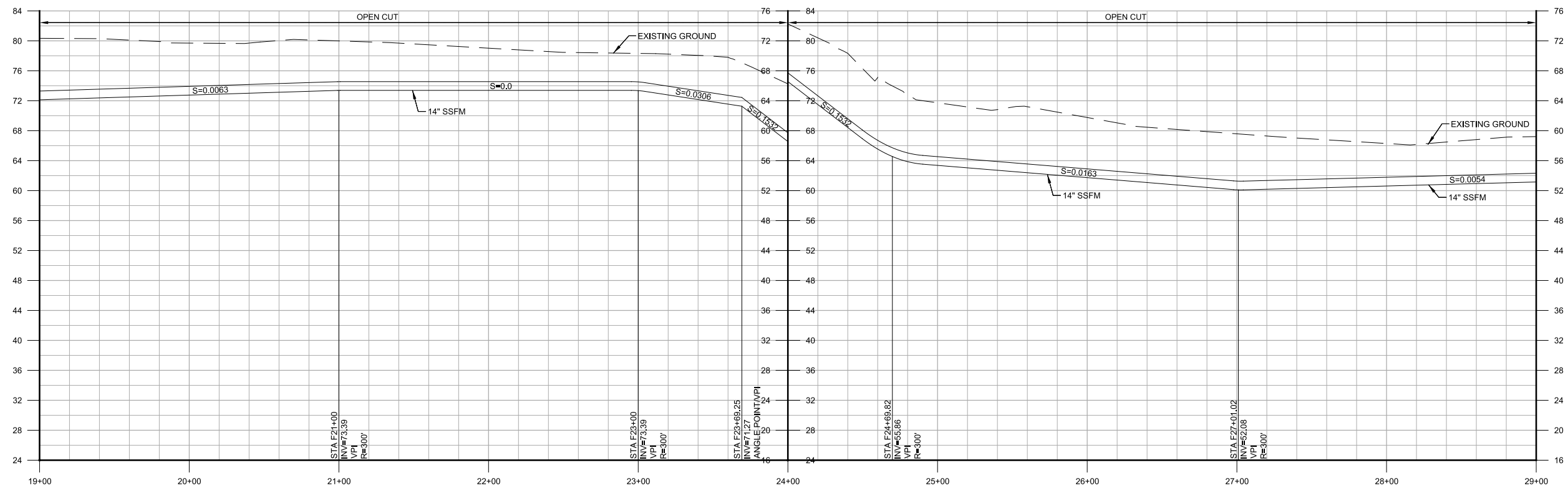
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905 - Civilpen\_PlotScale: 2:1

LAST SAVED BY: bhaves



- GENERAL NOTES:**
- XXXX
  - XXXX
- KEY NOTES:**
- 1 XXXX

**Call before you Dig**  
Avoid cutting underground utility lines. It's costly.



**35% DESIGN**  
**NOT FOR CONSTRUCTION**

DESIGNED AP			
DRAWN BWH			
CHECKED SS			
DATE MARCH 2015			
PROJECT ENGINEER	PROJECT MANAGER	PRINCIPAL	



**CITY OF MODESTO**  
**RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION**  
CIVIL  
**PLAN AND PROFILE - ALIGNMENT F**  
**STA F19+00 TO F29+00**

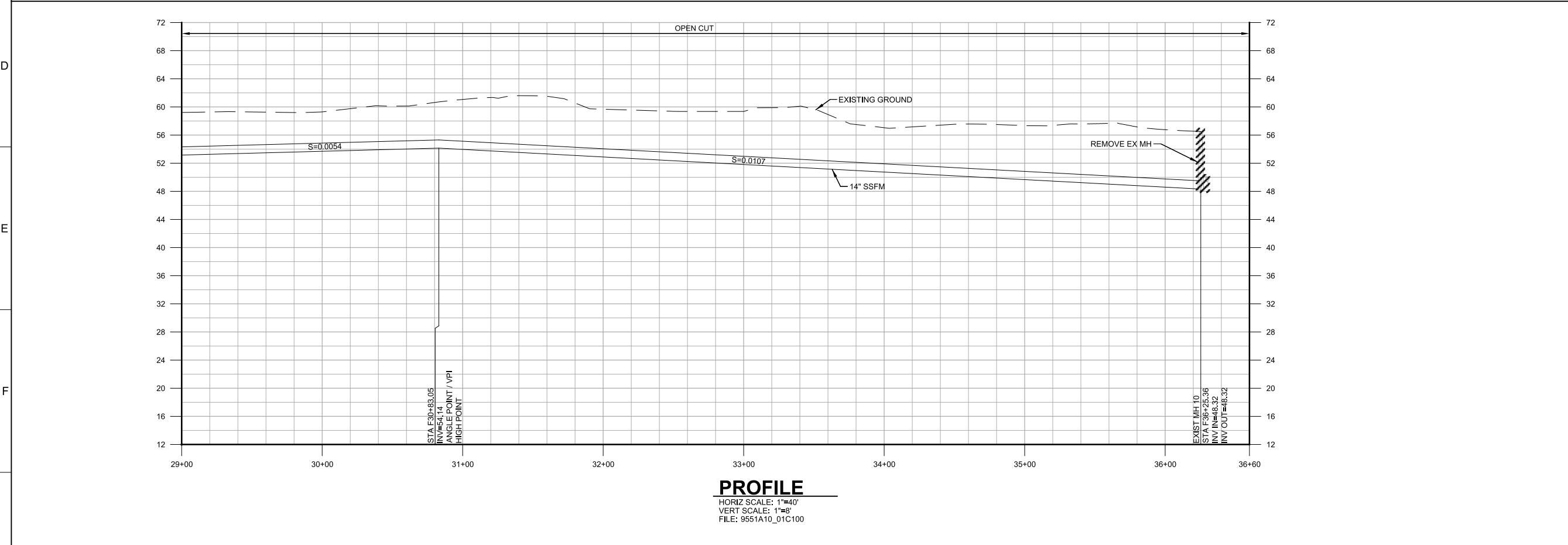
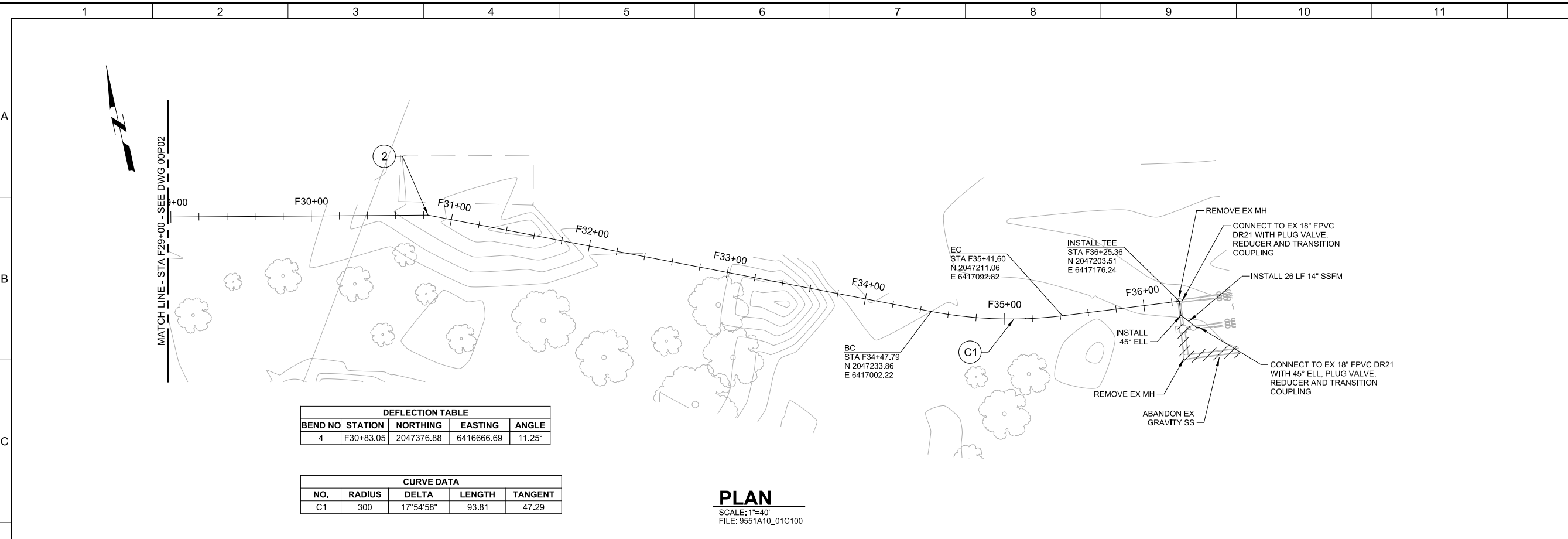
VERIFY SCALES	JOB NO. 9551A.00
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 00P21
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. X OF XX

Plot Date: 20-MAR-2015 9:10:13 AM

User: Bhawes

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905 - Civilpen\_PlotScale: 2:1

LAST SAVED BY: bhawes



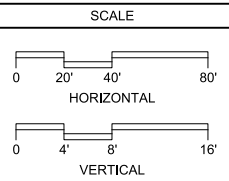
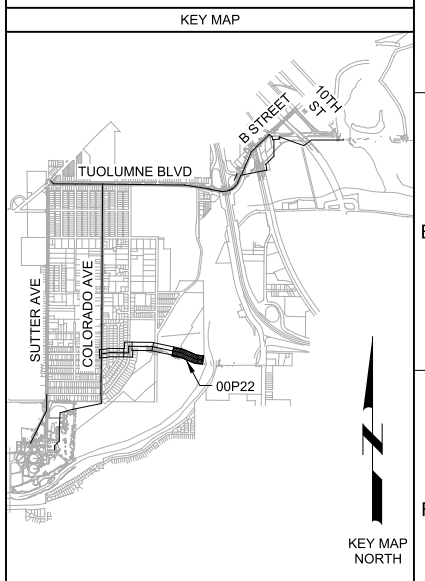
**GENERAL NOTES:**

- XXXX
- XXXX

**KEY NOTES:**

1 XXXX

**Call before you Dig**  
Avoid cutting underground utility lines. It's costly.



**35% DESIGN NOT FOR CONSTRUCTION**

REV	DATE	BY	DESCRIPTION
1			
2			

DESIGNED AP  
DRAWN BWH  
CHECKED SS  
DATE MARCH 2015

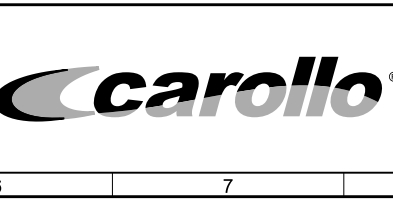
PROJECT ENGINEER

REGISTERED PROFESSIONAL ENGINEER  
ANNIE & APRIL RUTHERFORD  
No. 68268  
CIVIL  
STATE OF CALIFORNIA

PROJECT MANAGER

REGISTERED PROFESSIONAL ENGINEER  
TIMOTHY F. TAYLOR  
No. 44975  
CIVIL  
STATE OF CALIFORNIA

PRINCIPAL



CITY OF MODESTO  
RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
CIVIL  
PLAN AND PROFILE - ALIGNMENT F  
STA F29+00 TO F36+25.36

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

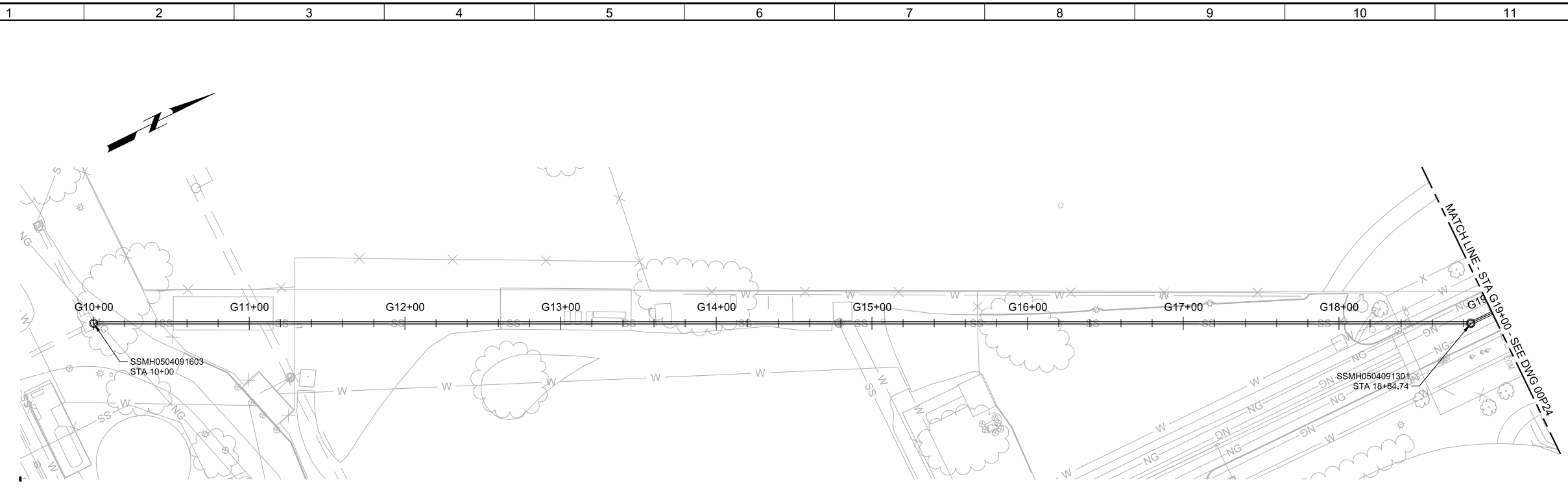
JOB NO. 9551A.00  
DRAWING NO. 00P22  
SHEET NO. X OF XX

Plot Date: 08-SEP-2015 10:57:09 AM

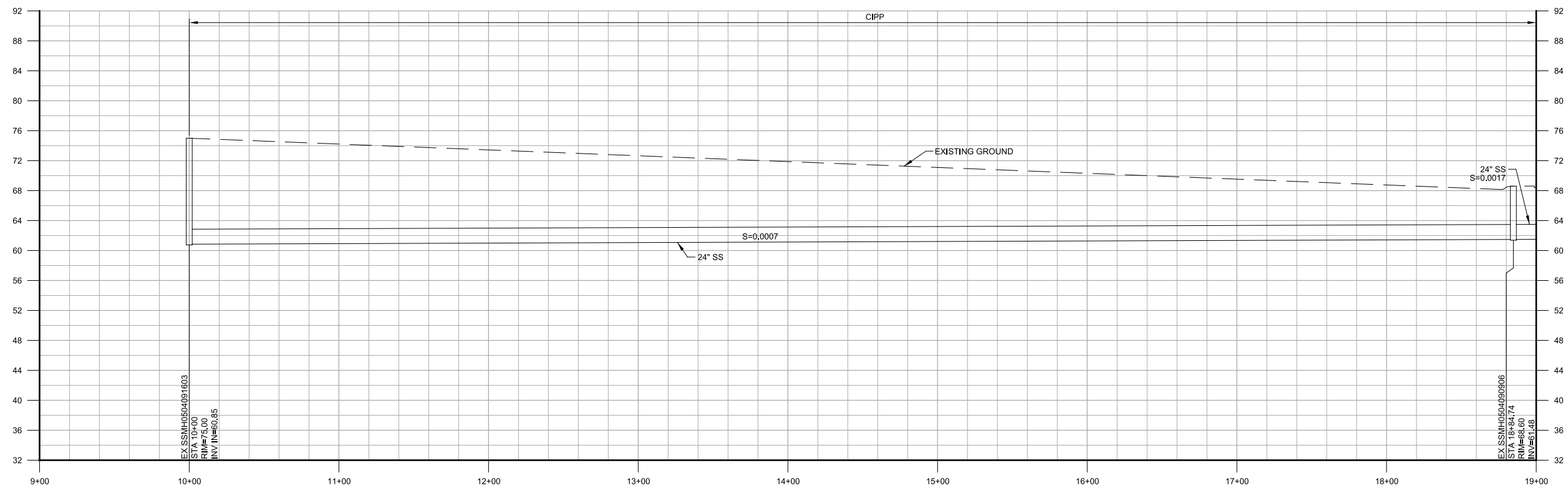
User: bhawes

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905 - Civilpen\_PlotScale: 2:1

LAST SAVED BY: bhawes



**PLAN**  
 SCALE: 1"=40'  
 FILE: 9551A10\_01C100



**PROFILE**  
 HORIZ SCALE: 1"=40'  
 VERT SCALE: 1"=8'  
 FILE: 9551A10\_01C100

**GENERAL NOTES:**

- 1. XXXX
- 2. XXXX

**KEY NOTES:**

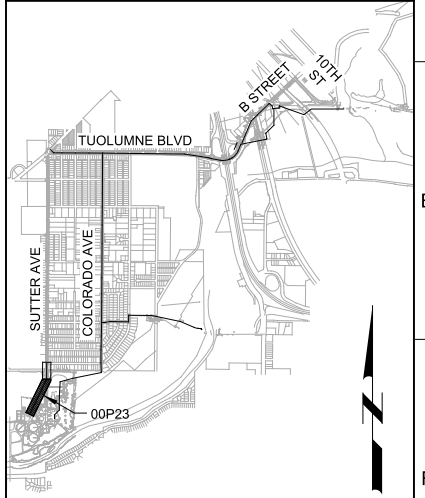
- 1 XXXX

**Call before you Dig**  
 Avoid cutting underground utility lines. It's costly.

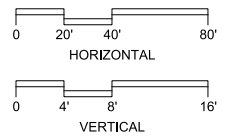


OR  
 1-800-227-2600

**KEY MAP**



**SCALE**



**35% DESIGN  
 NOT FOR CONSTRUCTION**

DESIGNED AP  
 DRAWN BWH  
 CHECKED SS  
 DATE MARCH 2015



**CITY OF MODESTO**  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION

CIVIL  
**PLAN AND PROFILE - ALIGNMENT G  
 STA G10+00 TO G19+00**

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

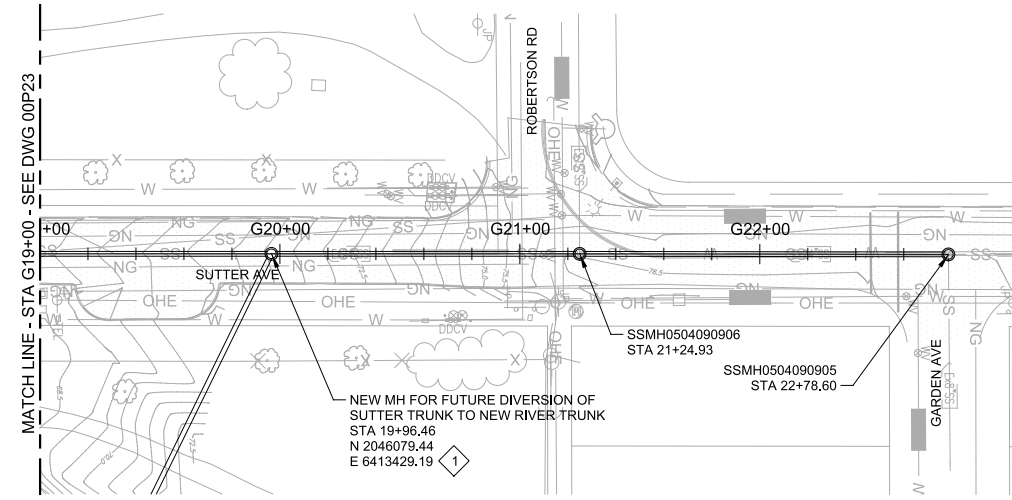
JOB NO. 9551A.00  
 DRAWING NO. 00P23  
 SHEET NO. X OF XX

Plot Date: 08-SEP-2015 11:31:59 AM

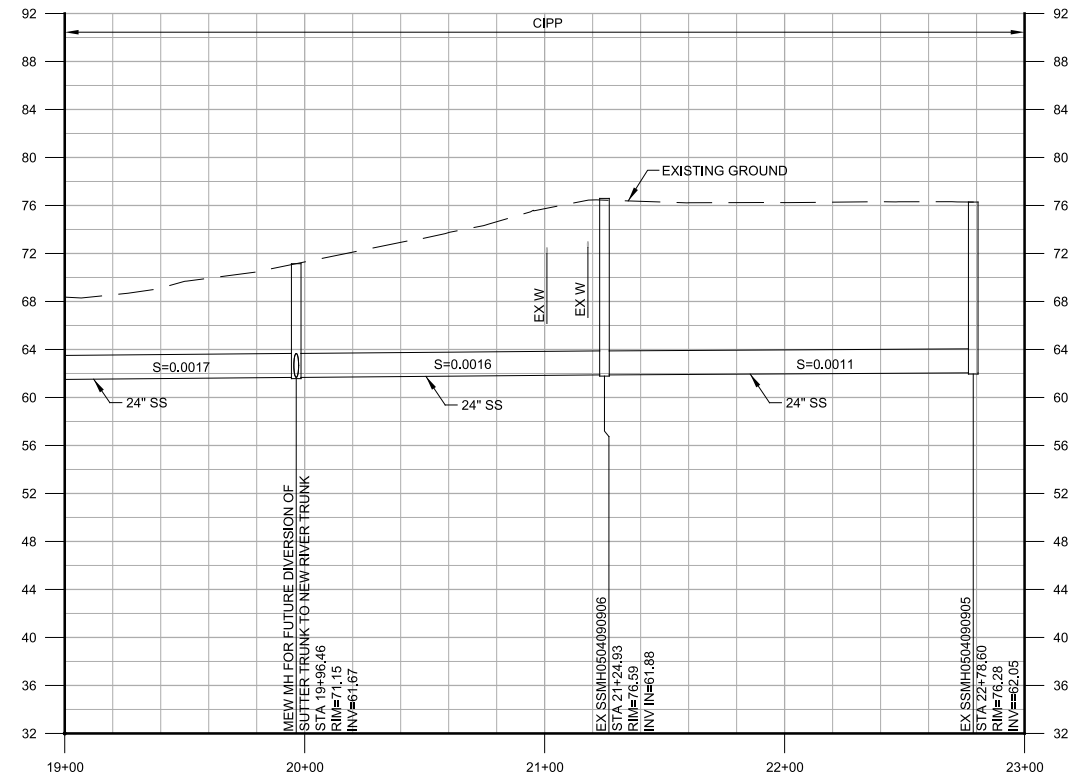
User: bhawes

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Std\_Pen\_v0905 - Civilpen\_PlotScale: 2:1

LAST SAVED BY: bhawes



**PLAN**  
SCALE: 1"=40'  
FILE: 9551A10\_01C100



**PROFILE**  
HORIZ SCALE: 1"=40'  
VERT SCALE: 1"=8'  
FILE: 9551A10\_01C100

**GENERAL NOTES:**

1. XXXX
2. XXXX

**KEY NOTES:**

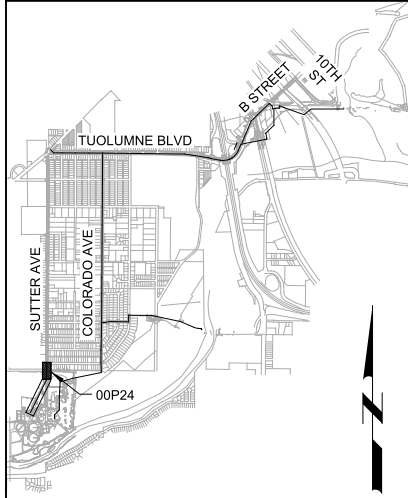
- 1. ELEV AND LOCATION OF MH TO BE DETERMINED IN THE FIELD DURING CONSTRUCTION AND ADJUSTED AS NECESSARY.

**Call before you Dig**  
Avoid cutting underground utility lines. It's costly.

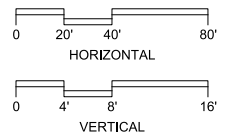


OR  
1-800-227-2600

**KEY MAP**



**SCALE**



**35% DESIGN  
NOT FOR CONSTRUCTION**

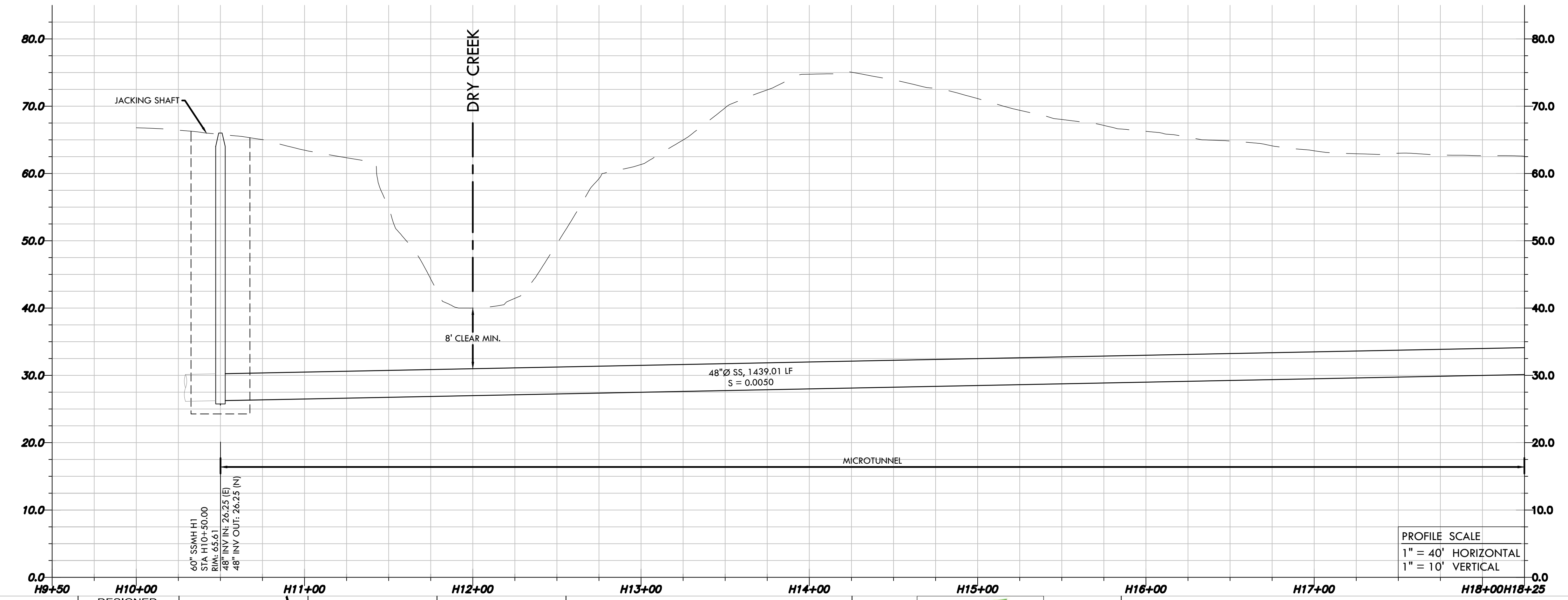
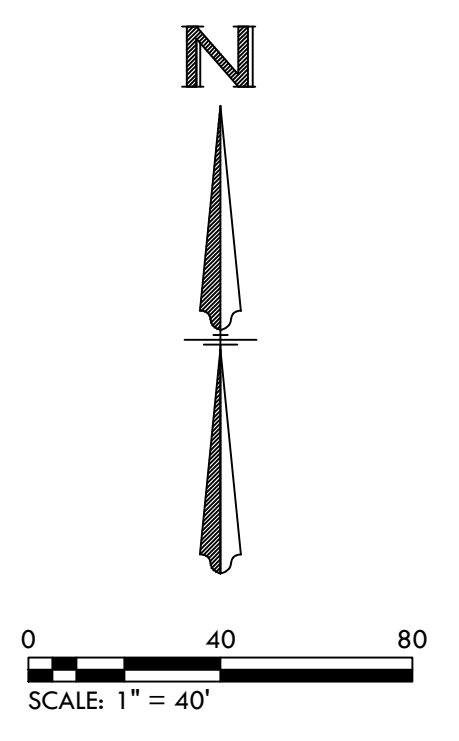
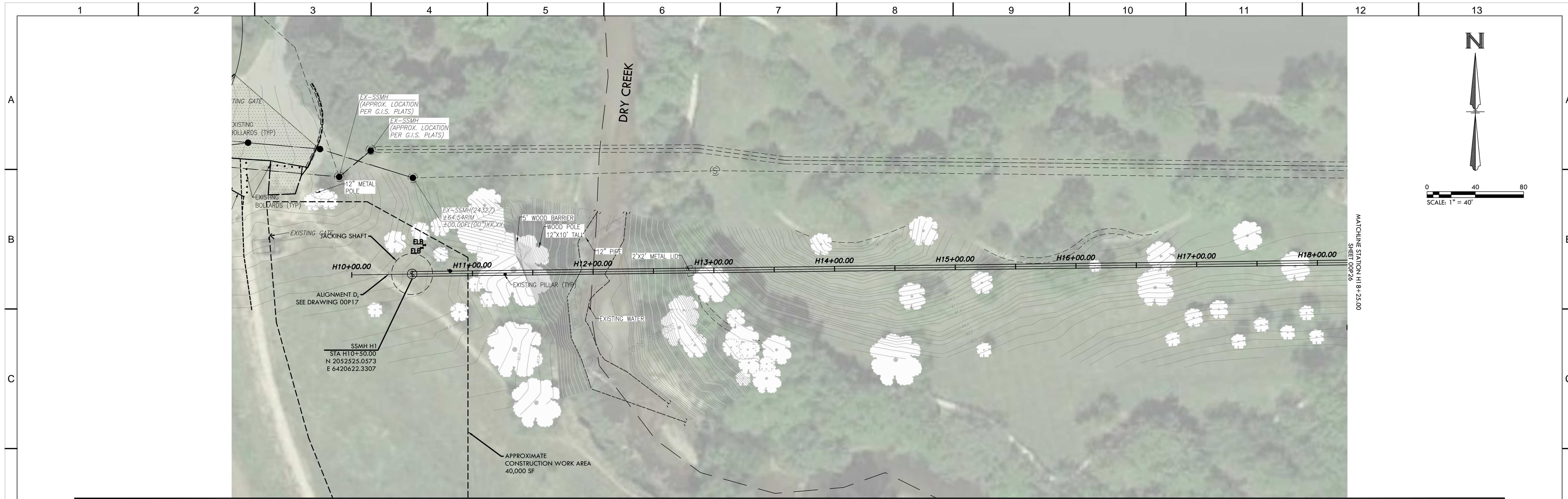
DESIGNED AP  
DRAWN BWH  
CHECKED SS  
DATE MARCH 2015



CITY OF MODESTO  
RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
CIVIL  
**PLAN AND PROFILE - ALIGNMENT G**  
STA G19+00 TO G22+78.60

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

JOB NO. 9551A.00  
DRAWING NO. 00P24  
SHEET NO. X OF XX

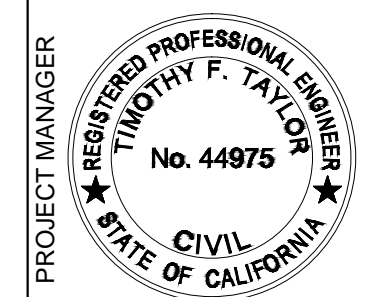


**BLACKWATER**  
 CONSULTING ENGINEERS, INC.  
 605 Standiford Ave., Suite N, Modesto, CA 95350  
 T: 209.322.1820 F: 209.222.4088  
 www.blackwater-eng.com

**35% DESIGN  
 NOT FOR CONSTRUCTION**

DESIGNED  
AKF  
 DRAWN  
AJH  
 CHECKED  
  
 DATE  
MARCH 2015

**PRELIMINARY**



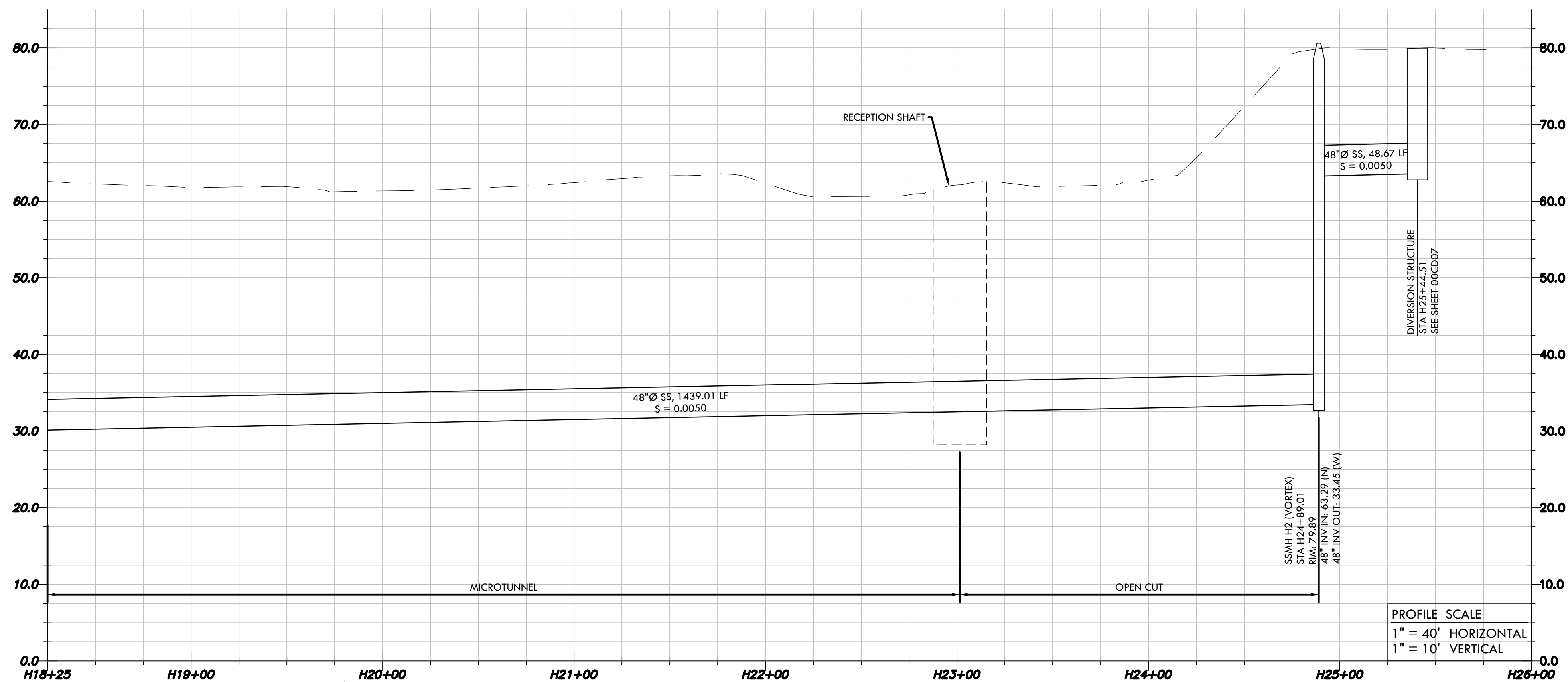
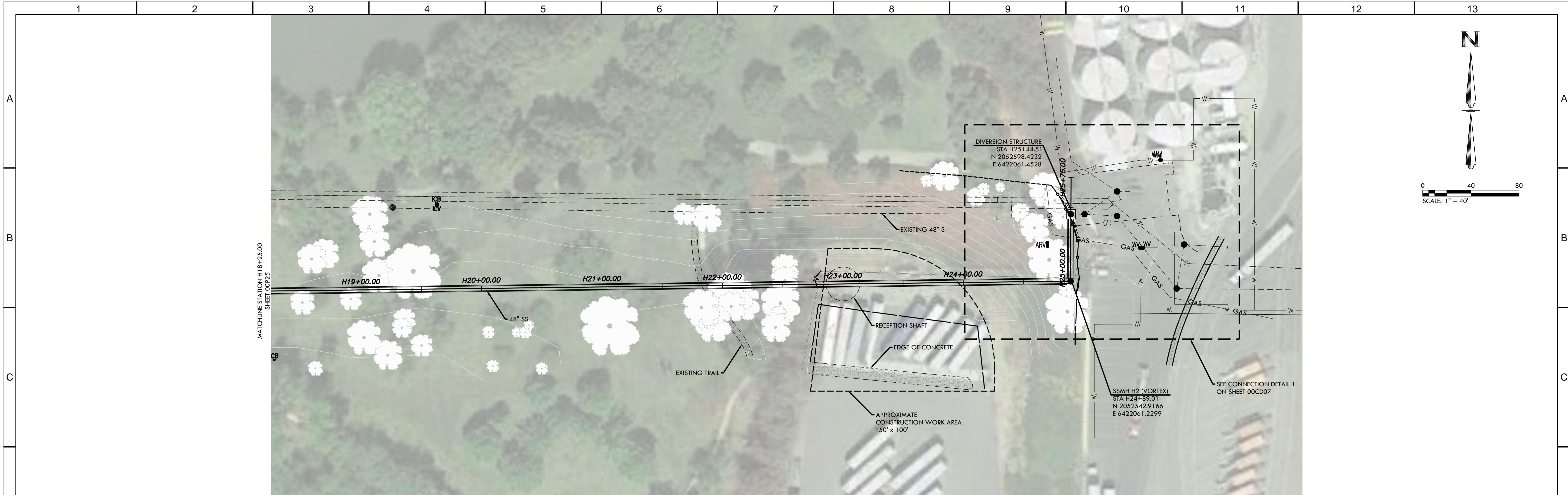
CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 CIVIL  
**PLAN AND PROFILE - ALIGNMENT H**  
 STA H10+50.00 TO H18+25.00

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

JOB NO.  
9551A.00  
 DRAWING NO.  
**00P25**  
 SHEET NO.  
OF XX

REV	DATE	BY	DESCRIPTION
1			
2			

1:11:00 PM RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION PROJECT W/XXX ENGINEERING PLOT: 3/24/2015 1:58:59 PM BY: ADAM HITCHINGS



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 www.blackwater-eng.com

**35% DESIGN  
 NOT FOR CONSTRUCTION**

DESIGNED  
AKF  
 DRAWN  
AJH  
 CHECKED  
 DATE  
MARCH 2015

PROJECT ENGINEER  
**PRELIMINARY**

PROJECT MANAGER  
 REGISTERED PROFESSIONAL ENGINEER  
 TIMOTHY F. TAYLOR  
 No. 44975  
 CIVIL  
 STATE OF CALIFORNIA

PRINCIPAL  
 REGISTERED PROFESSIONAL ENGINEER  
 MICHAEL JAMES BRITTON  
 No. 27729  
 CIVIL  
 STATE OF CALIFORNIA



CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 CIVIL  
**PLAN AND PROFILE - ALIGNMENT H**  
 STA H18+25.00 TO H25+75.00

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

JOB NO.  
9551A.00  
 DRAWING NO.  
**00P26**  
 SHEET NO.  
OF XX

REV	DATE	BY	DESCRIPTION
1			
2			

S:\115025 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION\PROJECT\WORK\PROFILES\PROFILE.DWG: 3/24/2015 11:50:25 AM BY ADMIN\HCHINGS

Plot Date: 26-FEB-2015 1:35:34 PM

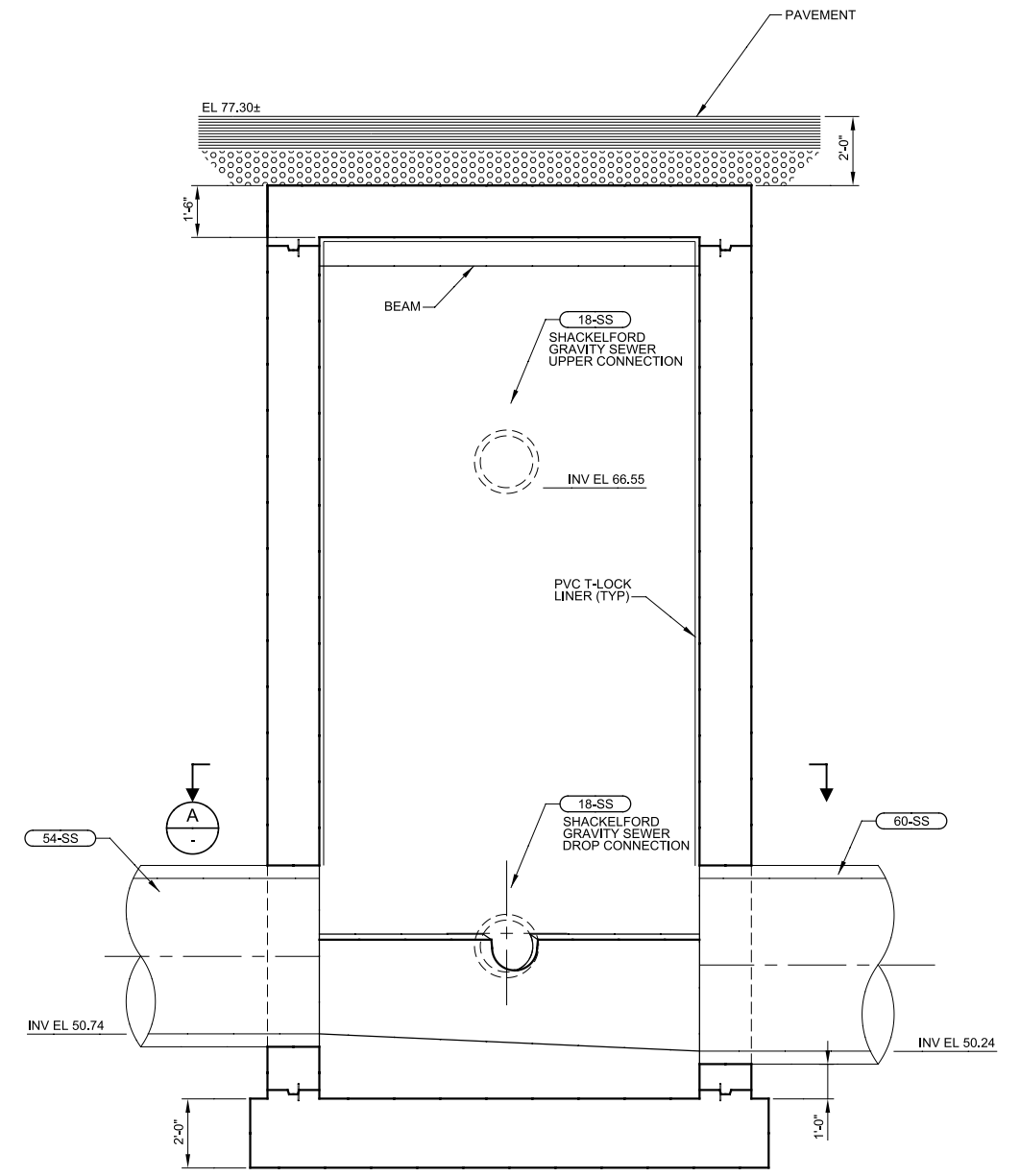
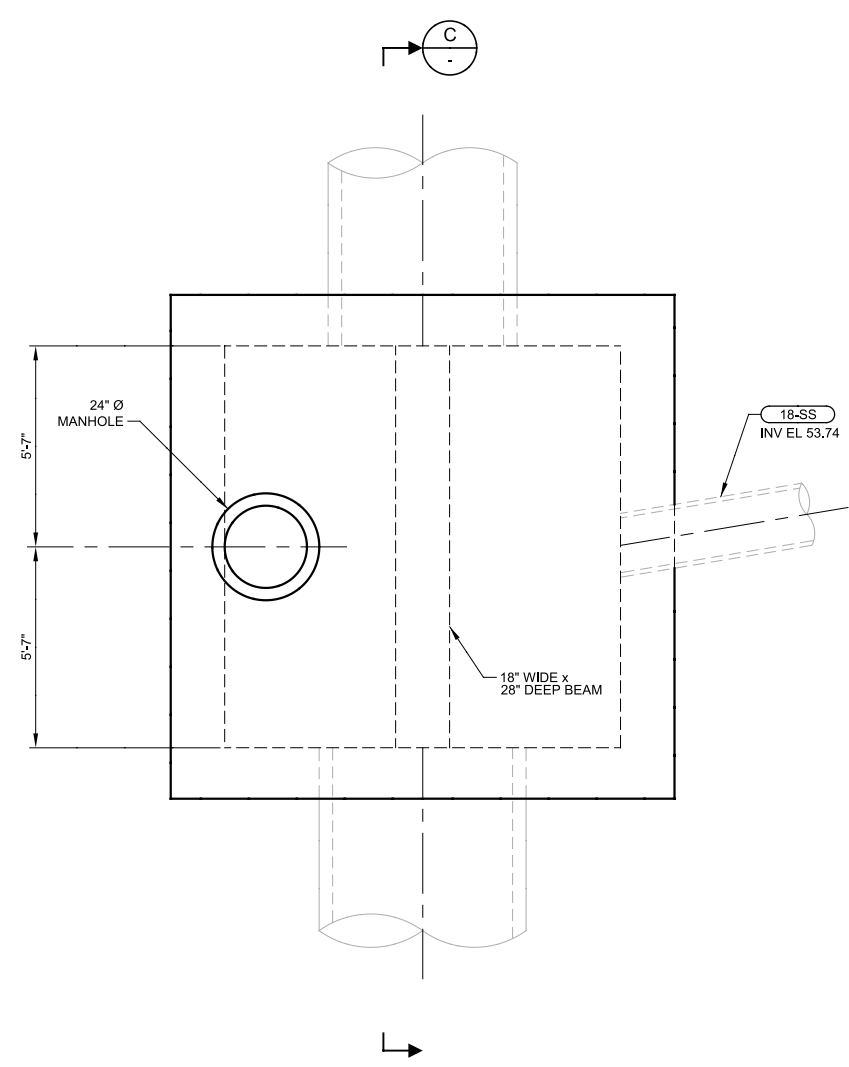
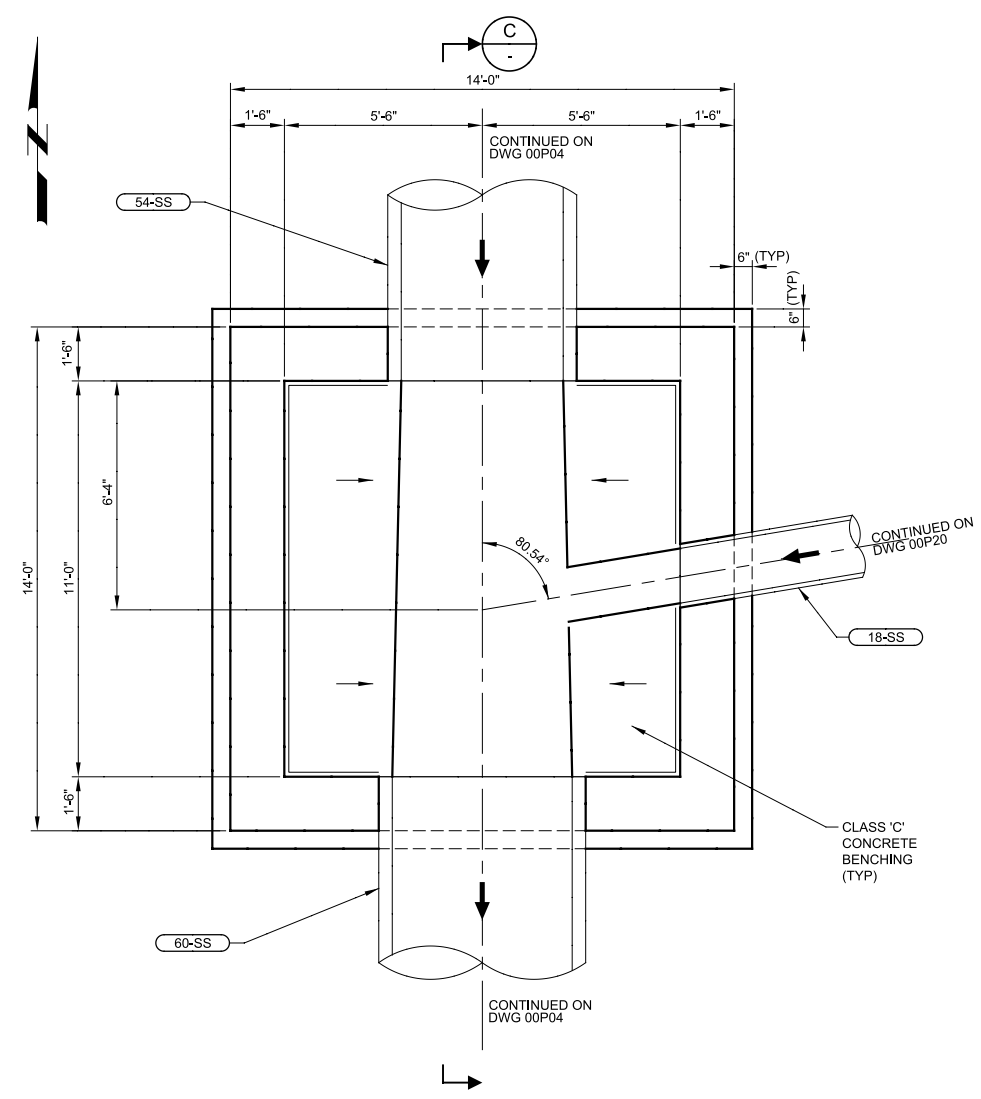
User: MRoper

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Std\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: mroper

**GENERAL NOTES:**  
 1. DESIGN LIVE LOAD = H20 TRAFFIC LOAD

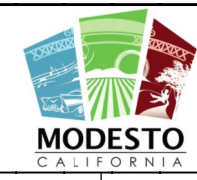
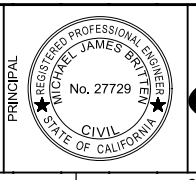
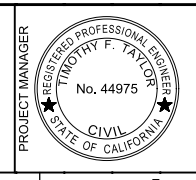
**KEY NOTES:**  
 XXXX



REV	DATE	BY	DESCRIPTION
1			

**35% DESIGN  
 NOT FOR CONSTRUCTION**

DESIGNED  
 JI  
 DRAWN  
 EL  
 CHECKED  
 TFT  
 DATE  
 MARCH 2015



CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 STRUCTURAL  
 JUNCTION STRUCTURE  
 COLORADO AVE & PELTON AVE

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

JOB NO.  
 9551A.00  
 DRAWING NO.  
**00CD01**  
 SHEET NO.  
 OF XX

Plot Date: 20-MAR-2015 7:53:51 AM

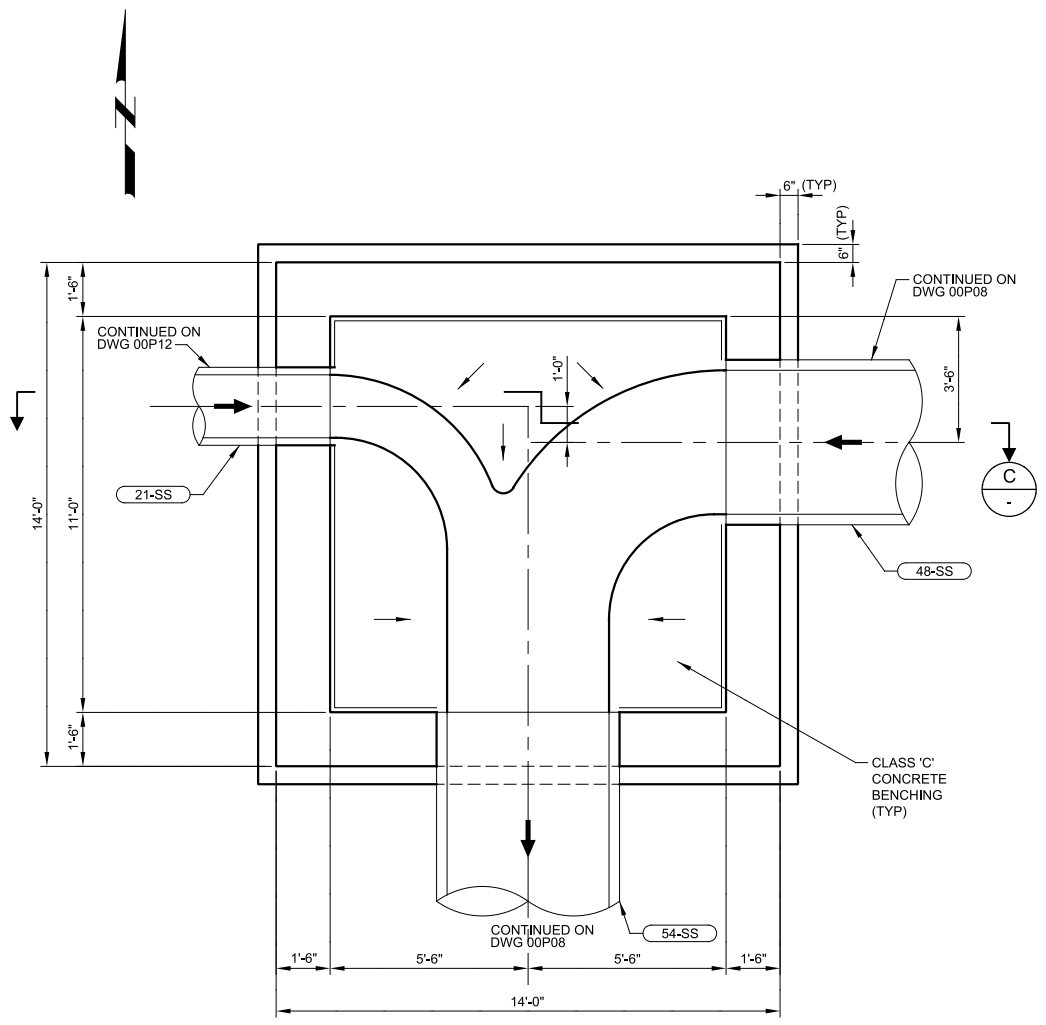
User: B.Haves

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905 - Chitpen\_PlotScale: 2:1

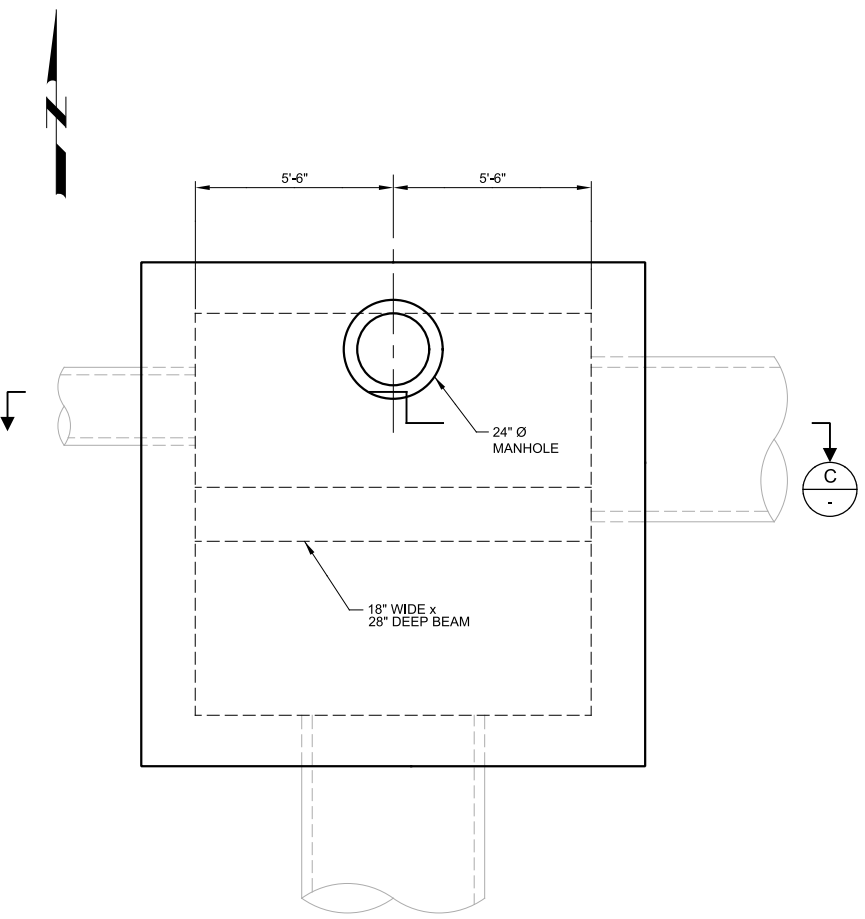
LAST SAVED BY: mroper

GENERAL NOTES:  
1. DESIGN LIVE LOAD = H20 TRAFFIC LOAD.

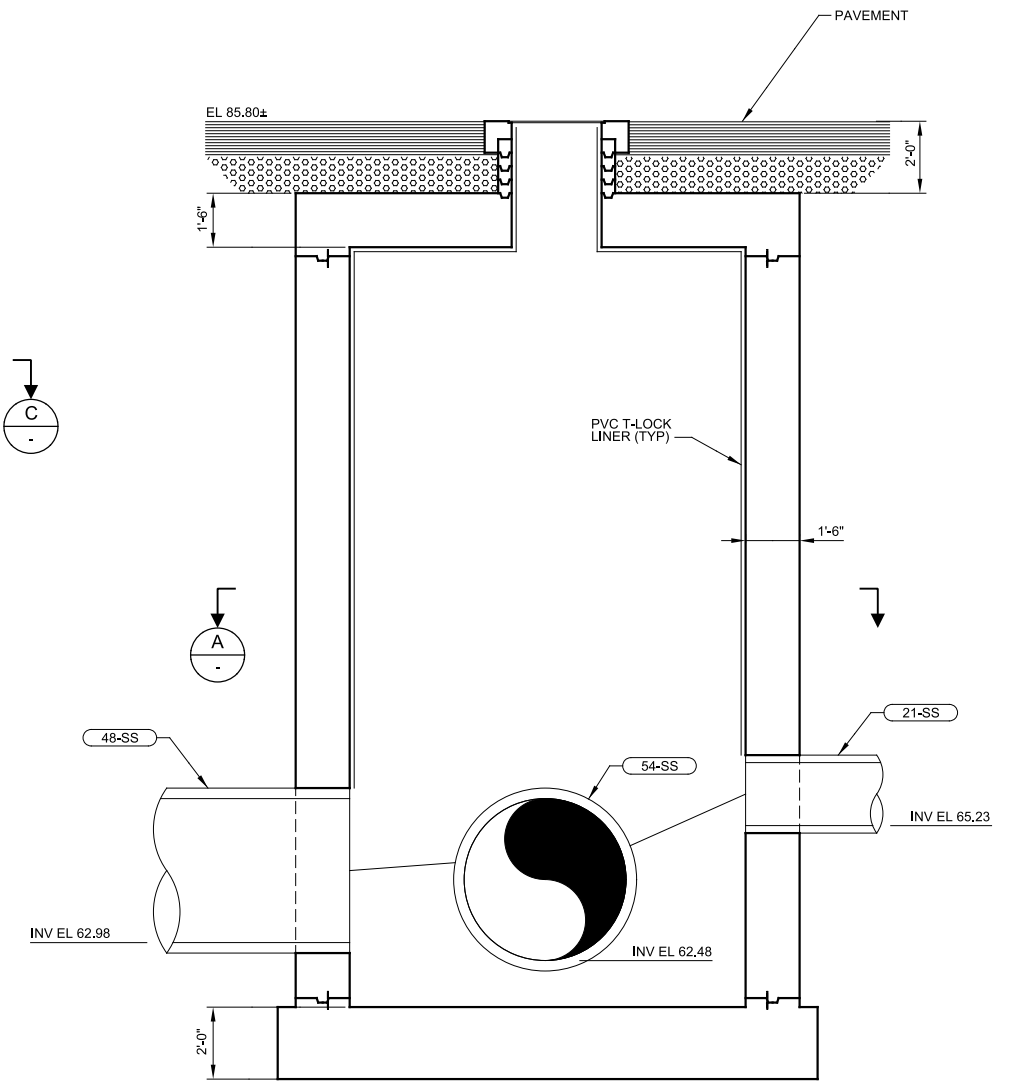
KEY NOTES:  
XXXX



**A BOTTOM PLAN**  
SCALE: 3/8" = 1'-0"  
FILE: 9551A00S121



**B TOP PLAN**  
SCALE: 3/8" = 1'-0"  
FILE: 9551A00S121



**C SECTION**  
SCALE: 3/8" = 1'-0"  
FILE: 9551A00S321

REV	DATE	BY	DESCRIPTION
1			
2			
3			

**35% DESIGN  
NOT FOR CONSTRUCTION**

DESIGNED  
JI  
DRAWN  
EL  
CHECKED  
TFT  
DATE  
MARCH 2015



CITY OF MODESTO  
RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
STRUCTURAL  
JUNCTION STRUCTURE  
TUOLUMNE BLVD & COLORADO AVE

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

JOB NO.  
9551A.00  
DRAWING NO.  
00CD02  
SHEET NO.  
OF XX

Plot Date: 26-FEB-2015 4:48:38 PM

User: MRoper

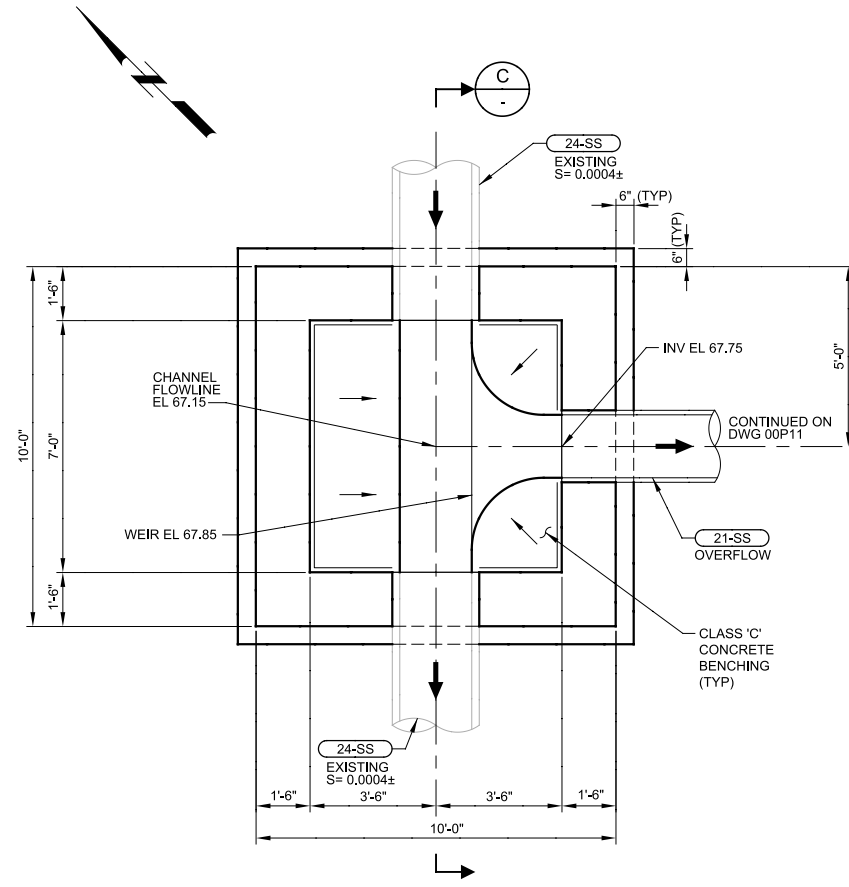
PlotScale: 2:1

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sig\_Pen\_v0905.dgn

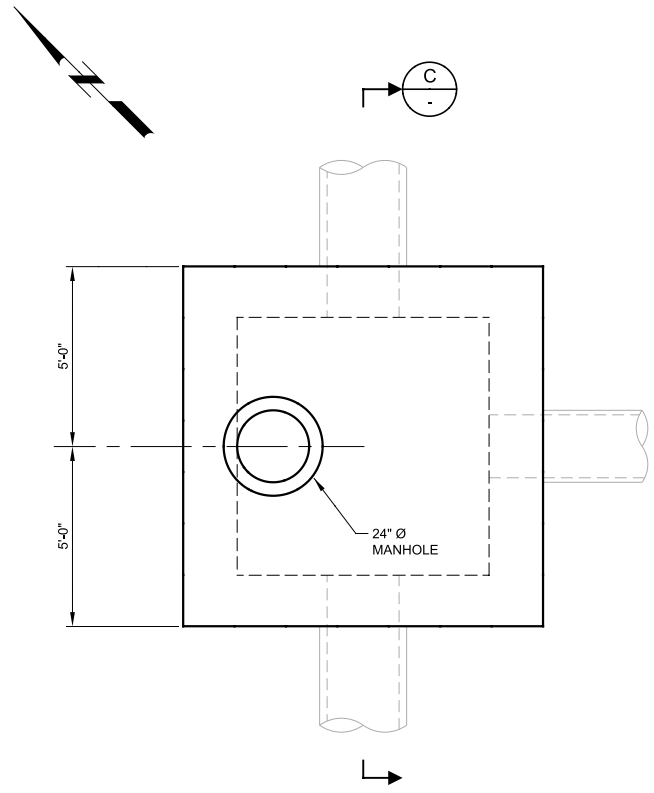
LAST SAVED BY: mroper

GENERAL NOTES:  
1. DESIGN LIVE LOAD = H20 TRAFFIC LOAD

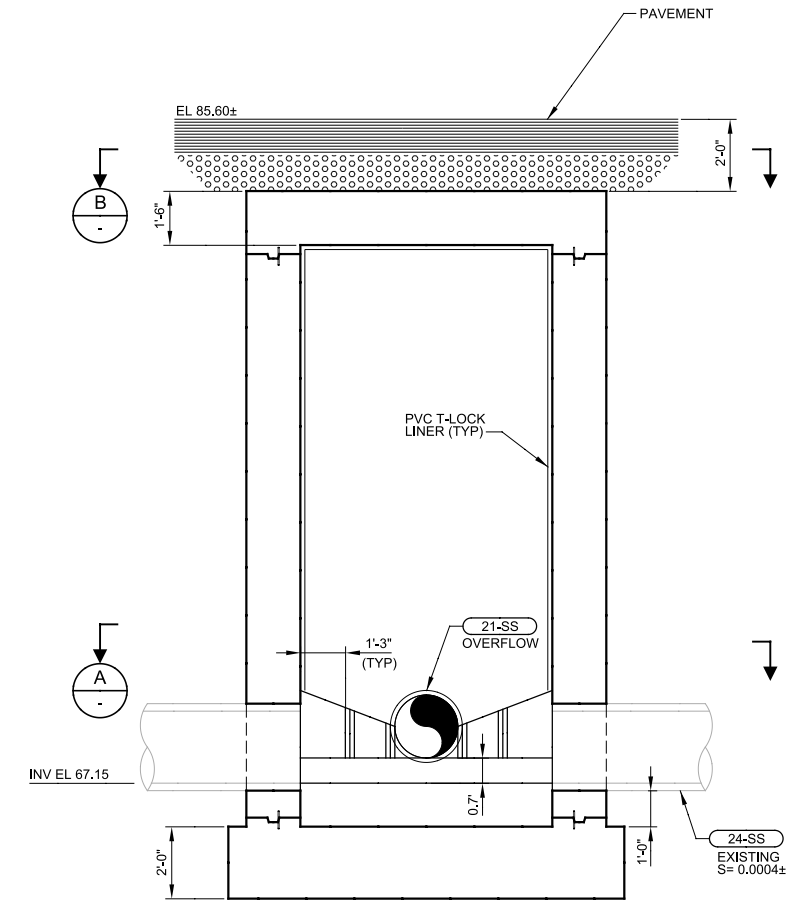
KEY NOTES:  
XXXX



**A BOTTOM PLAN**  
SCALE: 3/8" = 1'-0"  
FILE: 9551A00S122



**B TOP PLAN**  
SCALE: 3/8" = 1'-0"  
FILE: 9551A00S122



**C SECTION**  
SCALE: 3/8" = 1'-0"  
FILE: 9551A00S322

**35% DESIGN  
NOT FOR CONSTRUCTION**

DESIGNED	JJ
DRAWN	EL
CHECKED	TFT
DATE	MARCH 2015



CITY OF MODESTO  
RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
STRUCTURAL  
DIVERSION STRUCTURE  
PARADISE RD & TUOLUMNE BLVD (MH T-13)

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

JOB NO. 9551A.00  
DRAWING NO. 00CD03  
SHEET NO. OF XX

Plot Date: 20-MAR-2015 7:53:27 AM

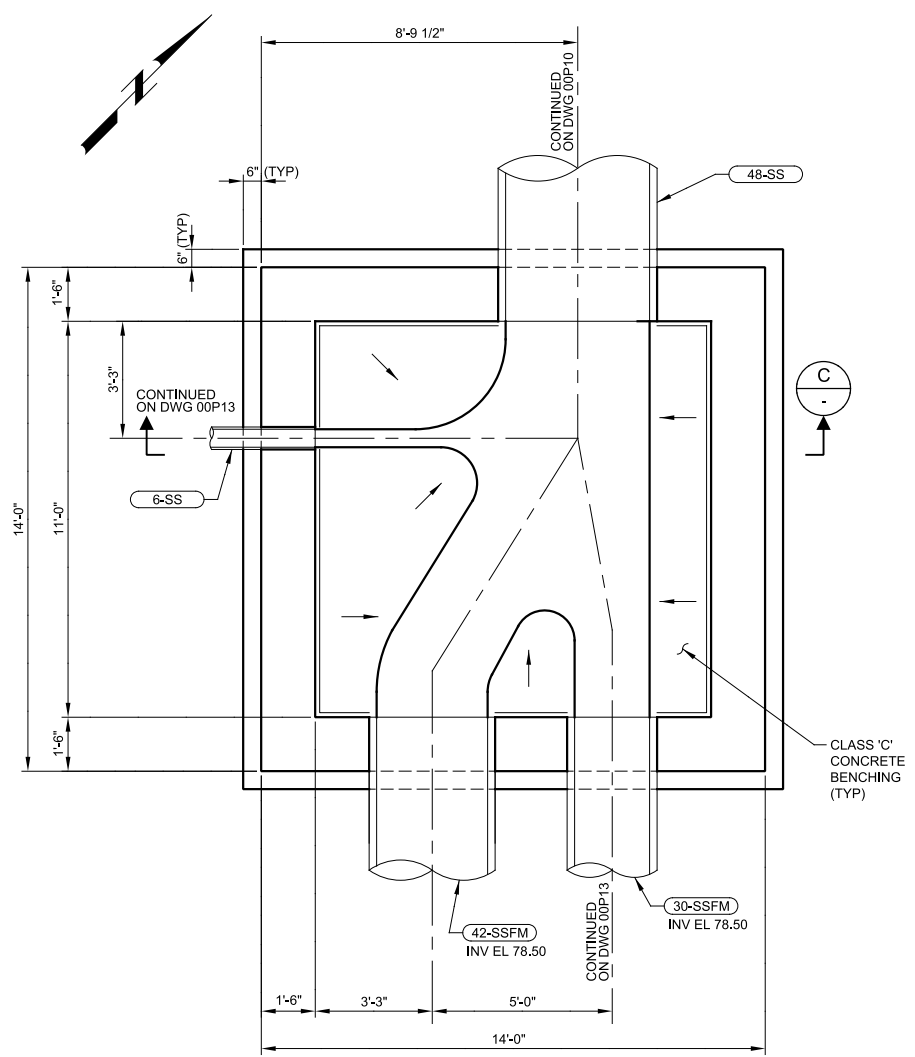
User: BHawes

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Stu\_Per\_v0905 - ChMppen PlotScale: 2:1

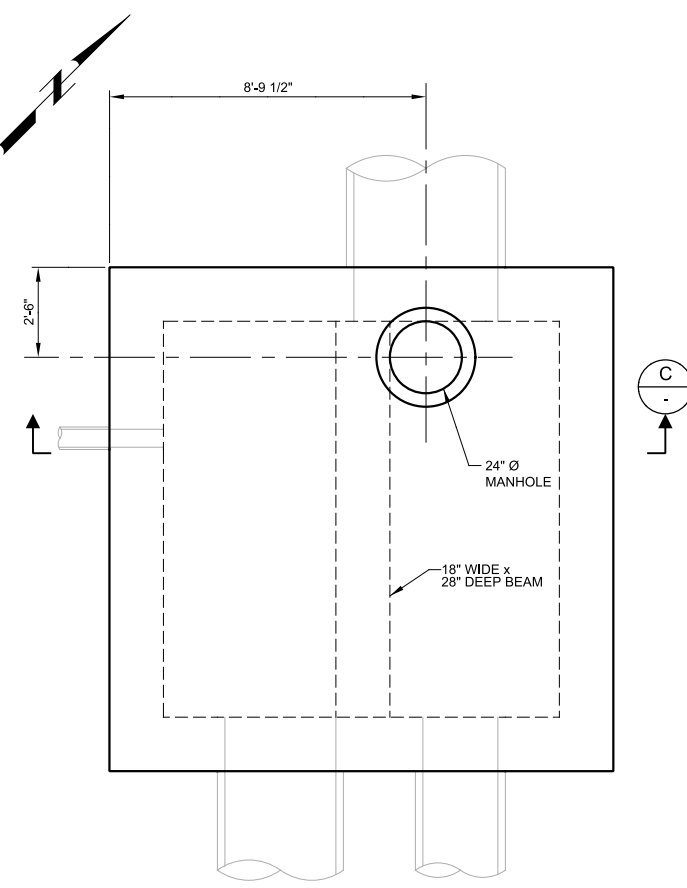
LAST SAVED BY: mroper

GENERAL NOTES:  
1. DESIGN LIVE LOAD = H20 TRAFFIC LOAD

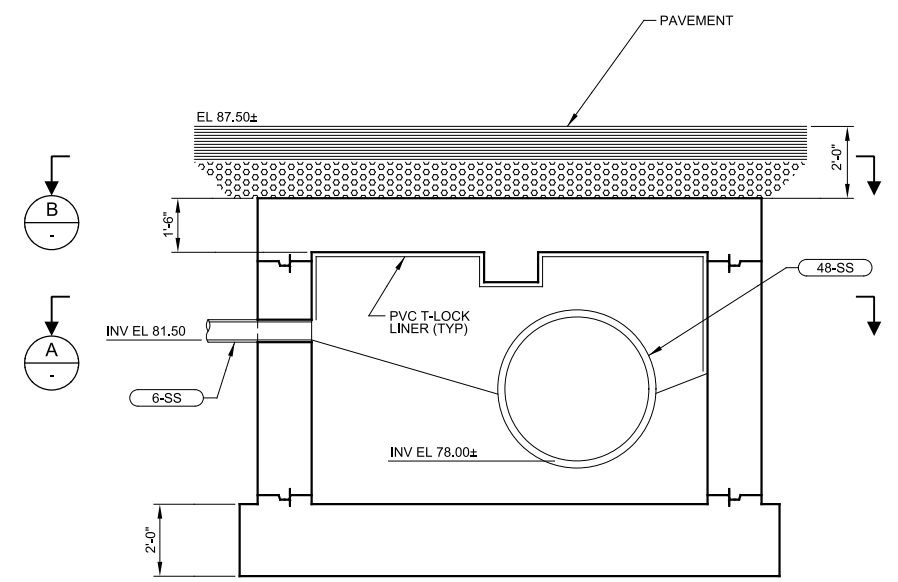
KEY NOTES:  
XXXX



**A BOTTOM PLAN**  
SCALE: 3/8" = 1'-0"  
FILE: 9551A00S123



**B TOP PLAN**  
SCALE: 3/8" = 1'-0"  
FILE: 9551A00S123



**C SECTION**  
SCALE: 3/8" = 1'-0"  
FILE: 9551A00S323

35% DESIGN  
NOT FOR CONSTRUCTION

DESIGNED	JL
DRAWN	EL
CHECKED	TFT
DATE	MARCH 2015

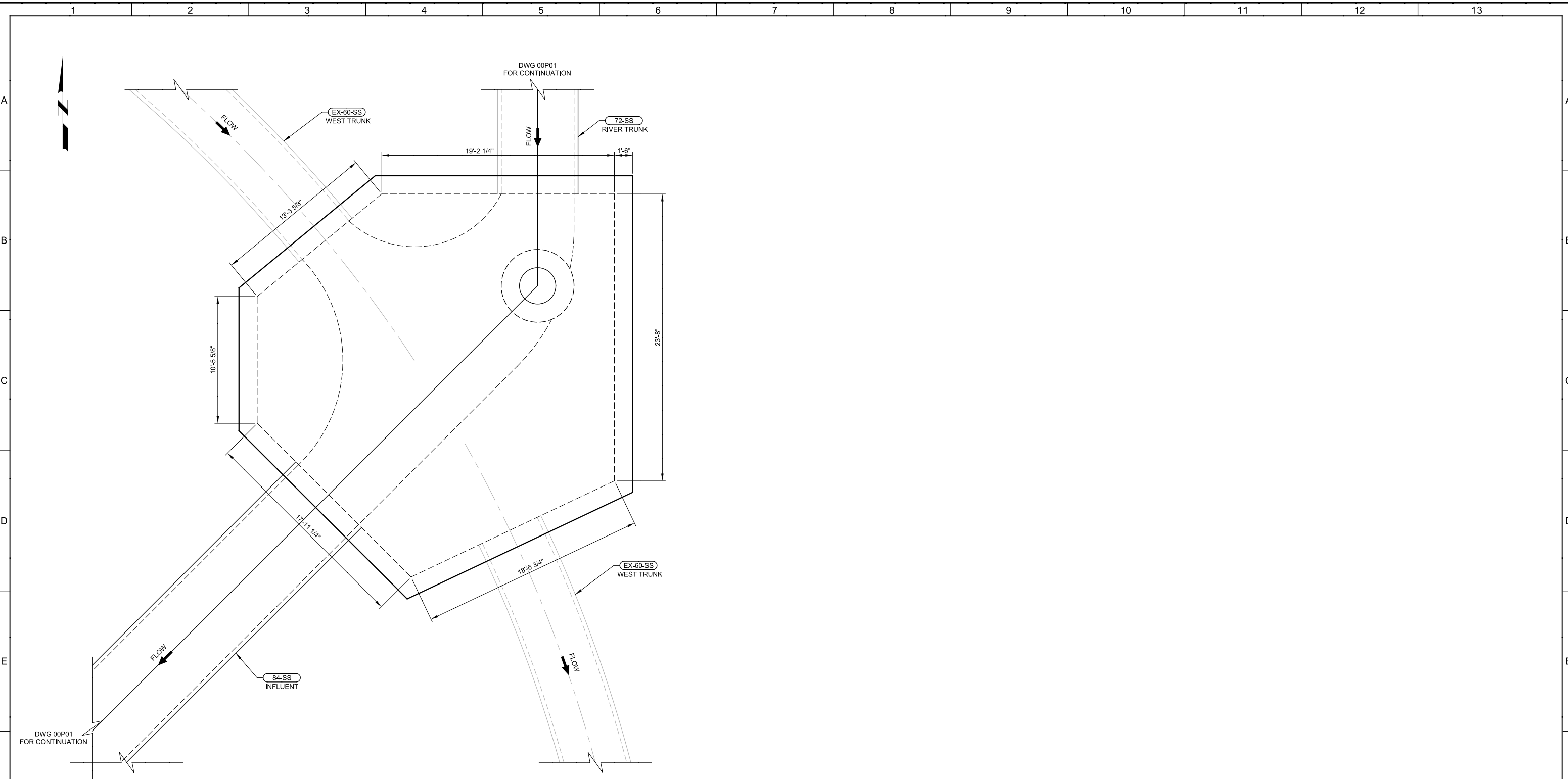


CITY OF MODESTO  
RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
STRUCTURAL  
JUNCTION STRUCTURE  
TUOLUMNE BLVD & NEECE DR

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

JOB NO. 9551A.00  
DRAWING NO. 00CD04  
SHEET NO. OF XX

Plot Date: 27-FEB-2015 1:34:14 PM  
 User: MRoper  
 Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1  
 LAST SAVED BY: mroper



**A**  
**WEST TRUNK - WWTP JUNCTION STRUCTURE - PLAN**  
 SCALE: 1/4" = 1'-0"  
 FILE: 9551A00S125

<b>35% DESIGN NOT FOR CONSTRUCTION</b>			
DESIGNED	TFT		
DRAWN	JBR		
CHECKED	RH		
DATE	MARCH 2015		
REV	DATE	BY	DESCRIPTION
1			

PROJECT ENGINEER

PROJECT MANAGER

PRINCIPAL



CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 CIVIL  
**JUNCTION STRUCTURE  
 WEST TRUNK & RIVER TRUNK**

VERIFY SCALES	JOB NO. 9551A.00
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. <b>00CD05</b>
0  1"	SHEET NO. OF XX
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

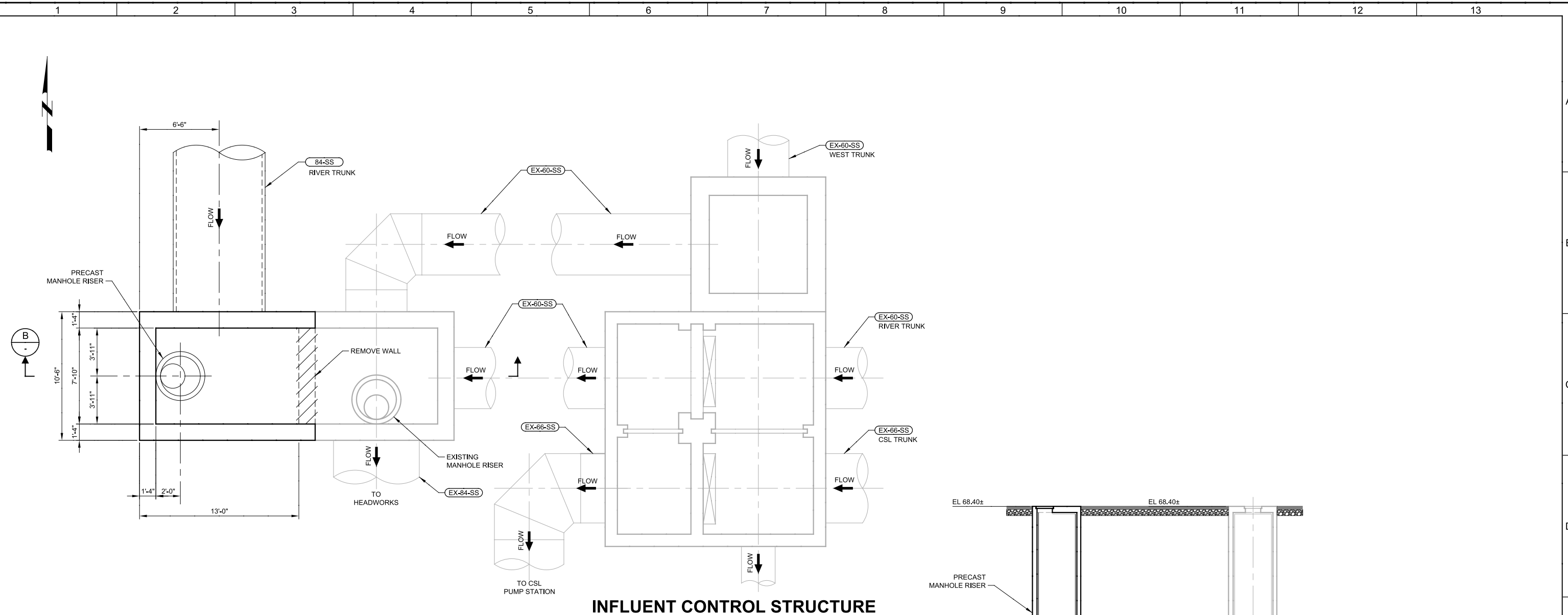
Plot Date: 27-FEB-2015 1:27:51 PM

User: MRoper

PlotScale: 2:1

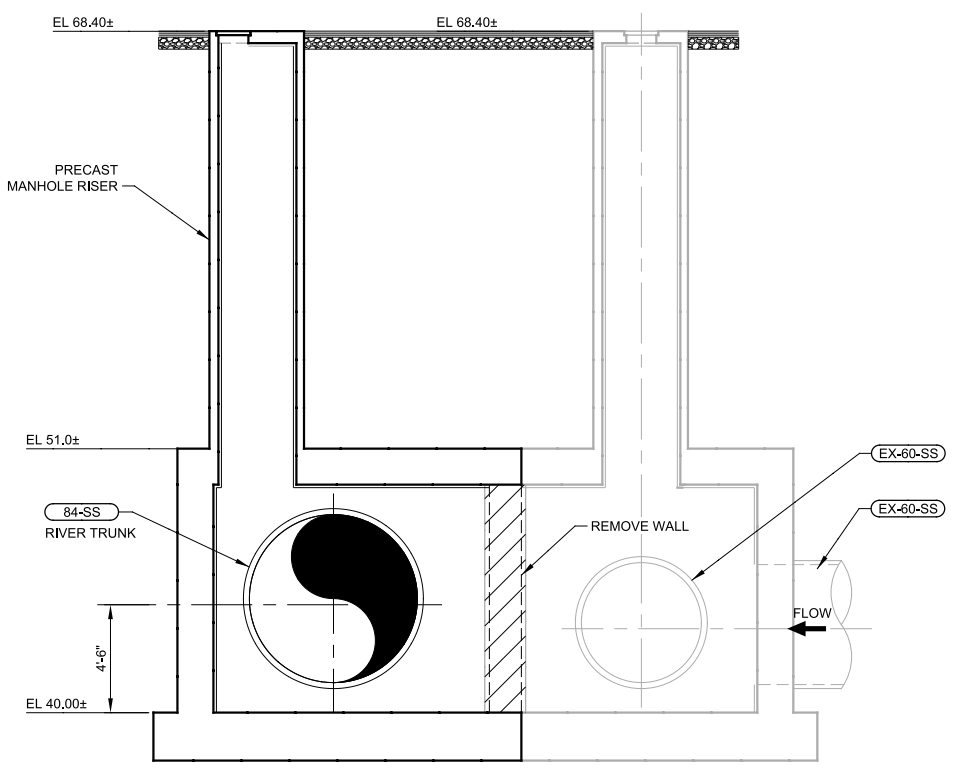
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: Elanzara



### INFLUENT CONTROL STRUCTURE

**A** **JUNCTION BOX NO 1 MODIFICATION PLAN**  
 SCALE: 1/4" = 1'-0"  
 FILE: 9551A00S124



**B** **SECTION**  
 SCALE: 1/4" = 1'-0"  
 FILE: 9551A00S324

<b>35% DESIGN NOT FOR CONSTRUCTION</b>			
DESIGNED	JI		
DRAWN	EL		
CHECKED	TFT		
DATE	MARCH 2015		
REV	DATE	BY	DESCRIPTION
1			

PROJECT ENGINEER: ALICE ASHA CHIKEREMAN, No. 83031, CIVIL, STATE OF CALIFORNIA

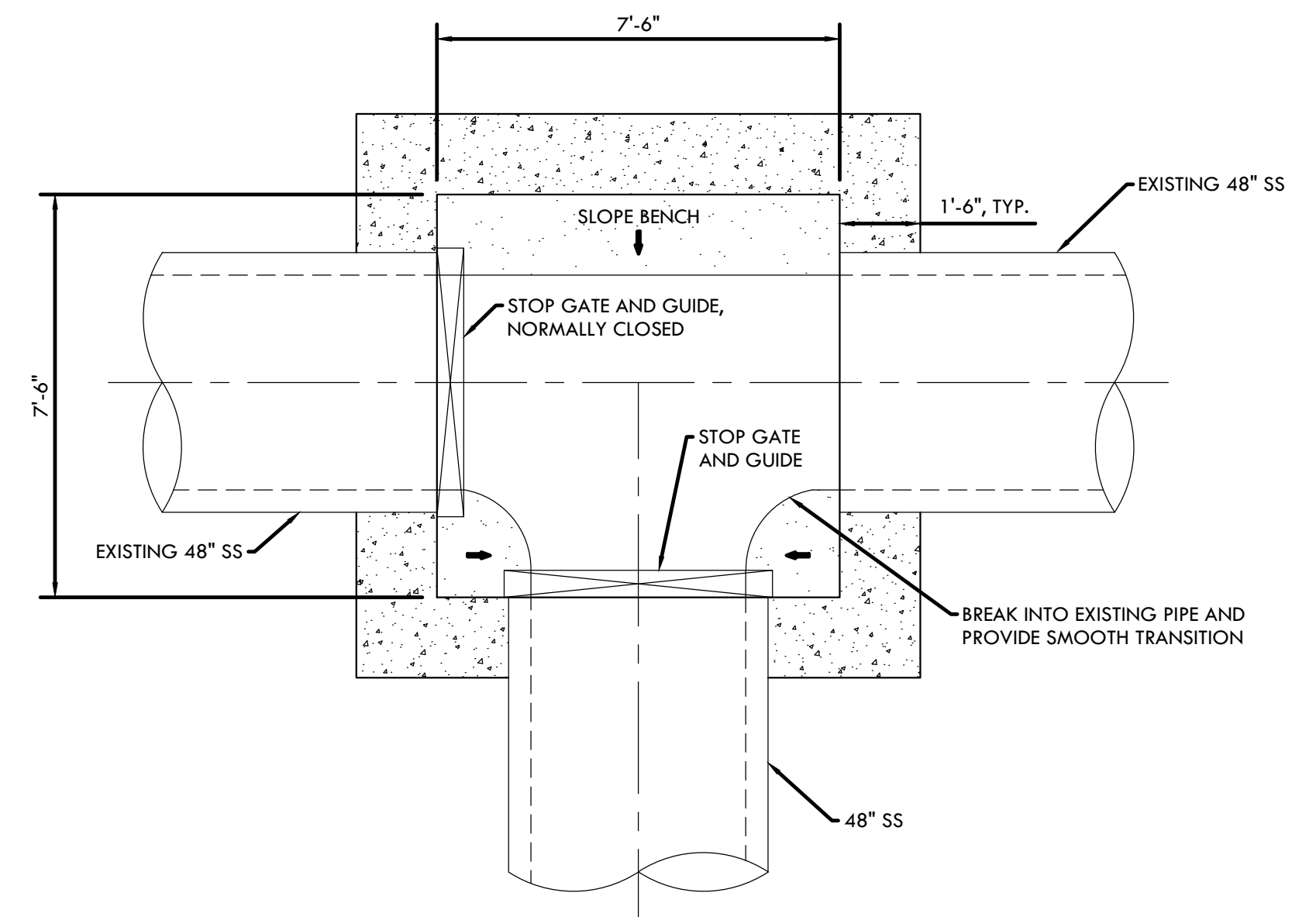
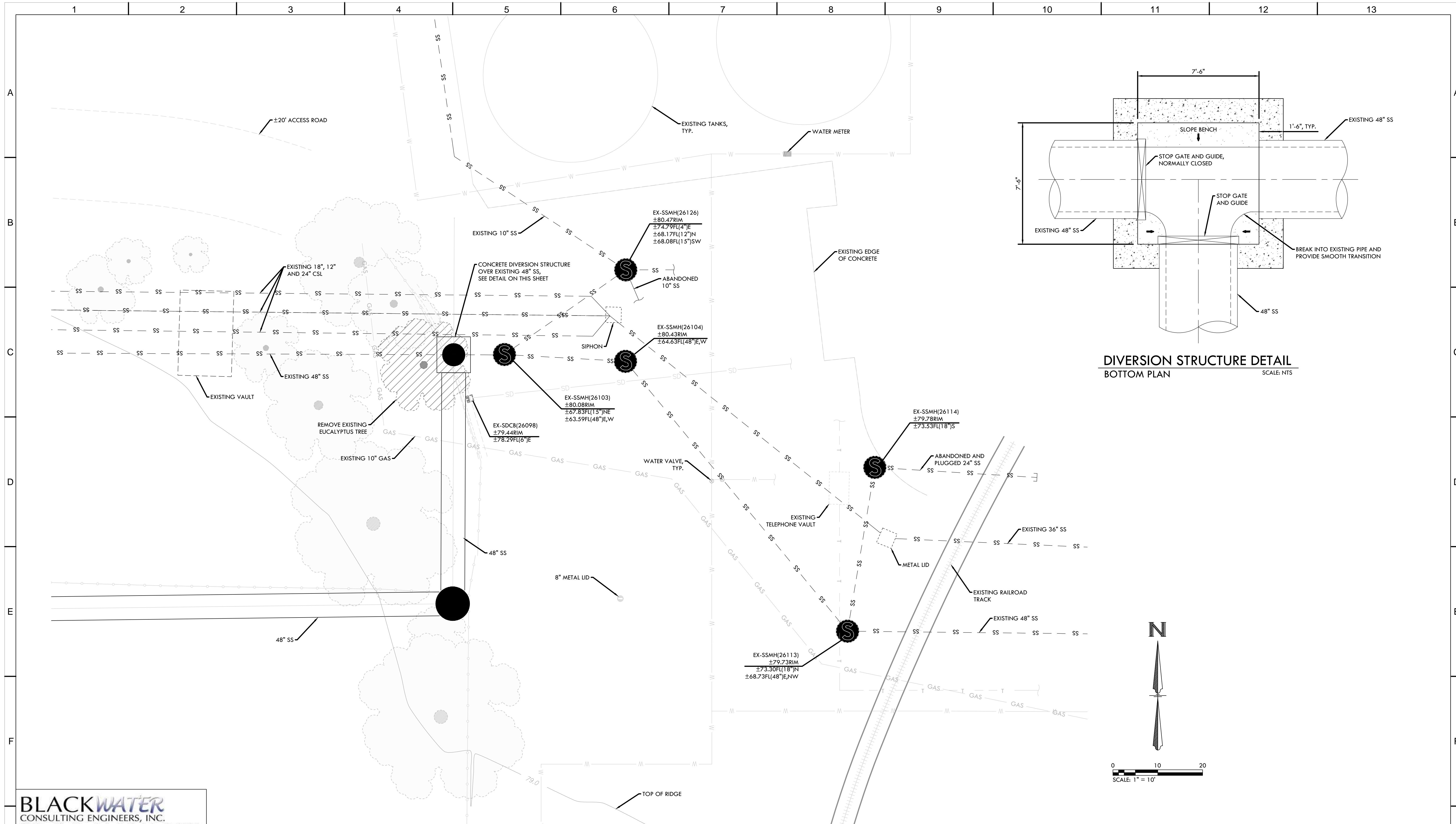
PROJECT MANAGER: TIMOTHY F. TAYLOR, No. 44975, CIVIL, STATE OF CALIFORNIA

PRINCIPAL: MICHAEL JAMES BRITTON, No. 27729, CIVIL, STATE OF CALIFORNIA

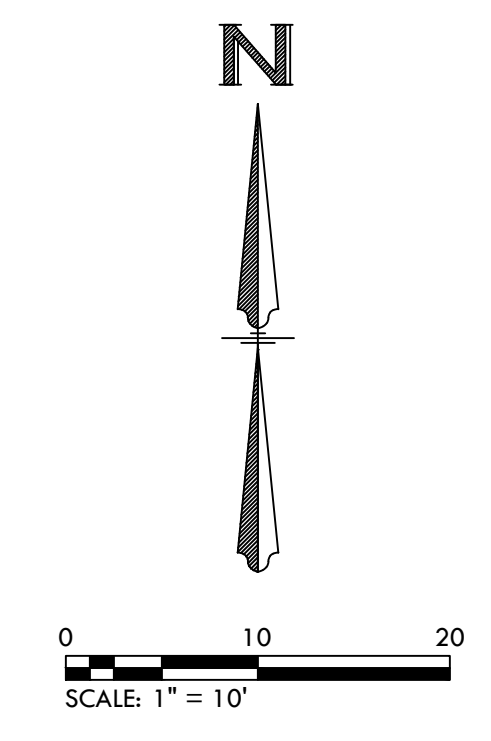


CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 STRUCTURAL  
**JUNCTION BOX NO 1 MODIFICATIONS PLAN AND SECTIONS**

VERIFY SCALES	JOB NO. 9551A.00
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 00CD06
0 1"	SHEET NO. OF XX
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	



**CONNECTION DETAIL**



**BLACKWATER**  
CONSULTING ENGINEERS, INC.  
605 Standiford Ave., Suite N, Modesto, CA 95350  
T: 209.322.1820 F: 209.222.4088  
www.blackwater-eng.com

**35% DESIGN  
NOT FOR CONSTRUCTION**

REV	DATE	BY	DESCRIPTION
1			
2			

DESIGNED AKF  
DRAWN AJH  
CHECKED  
DATE MARCH 2015  
PROJECT ENGINEER

**PRELIMINARY**

PROJECT MANAGER  
REGISTERED PROFESSIONAL ENGINEER  
TIMOTHY F. TAYLOR  
No. 44975  
CIVIL  
STATE OF CALIFORNIA

PRINCIPAL  
REGISTERED PROFESSIONAL ENGINEER  
MICHAEL JAMES BRITTON  
No. 27729  
CIVIL  
STATE OF CALIFORNIA



CITY OF MODESTO  
RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
CIVIL  
**DIVERSION STRUCTURE  
DRY CREEK**

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1" 20  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 9551A.00  
DRAWING NO. 00CD07  
SHEET NO. OF XX

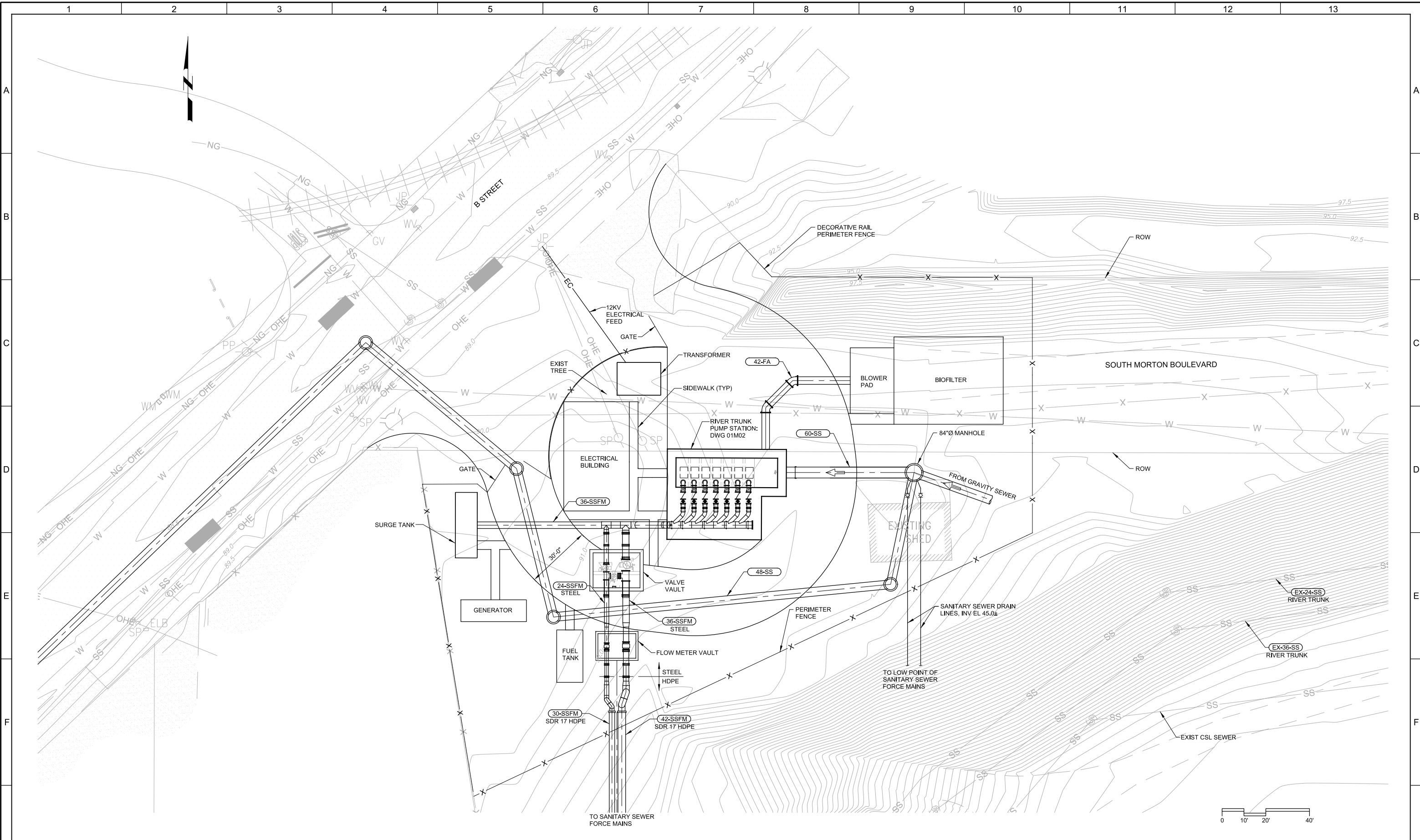
I:\11450 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION\PROJECT\DWG\11450-01-16-2015-02-08-AW-BYADAM-INTRO.DWG

Plot Date: 03-MAR-2015 8:09:54 AM

User: BHaves

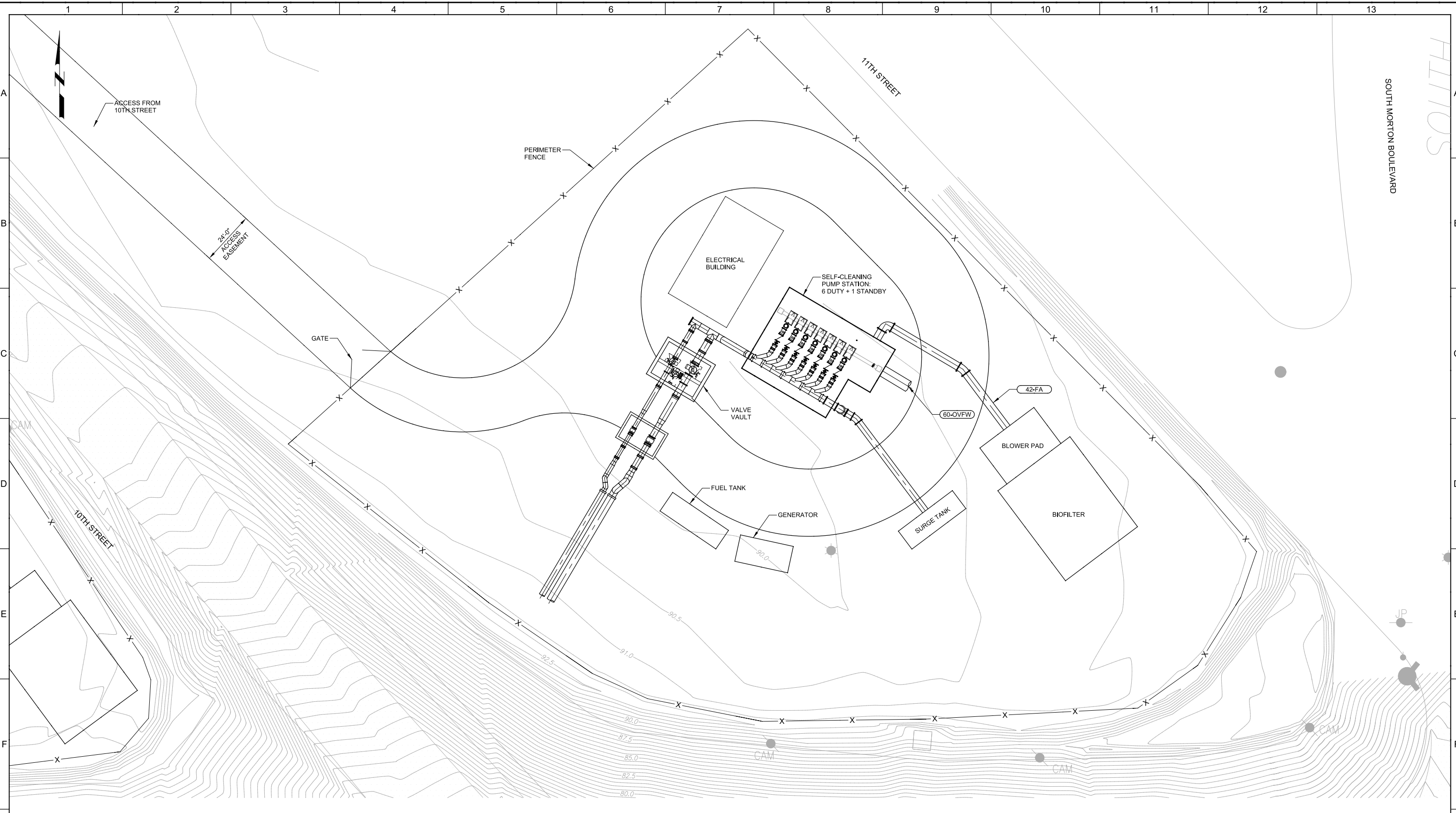
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: jrygh

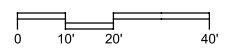


<p><b>35% DESIGN NOT FOR CONSTRUCTION</b></p>		<p>DESIGNED RH</p> <p>DRAWN BH</p> <p>CHECKED TFT</p> <p>DATE MARCH 2015</p>	<p>PROJECT ENGINEER RYAN A. HOOK No. 68462 CIVIL STATE OF CALIFORNIA</p>	<p>PROJECT MANAGER TIMOTHY F. TAYLOR No. 44975 CIVIL STATE OF CALIFORNIA</p>	<p>PRINCIPAL MICHAEL JAMES BRITTON No. 27729 CIVIL STATE OF CALIFORNIA</p>			<p>CITY OF MODESTO</p> <p>RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION</p> <p>CIVIL</p> <p>RTPS SITE PLAN MORTON BLVD</p>	<p>VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" 20' IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</p>	<p>JOB NO. 9551A.00</p> <p>DRAWING NO. <b>01C01</b></p> <p>SHEET NO. XX OF XX</p>
REV	DATE	BY	DESCRIPTION							
1										

Plot Date: 26-FEB-2015 4:11:54 PM  
 User: jnygh  
 Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0805.pen PlotScale: 2:1  
 LAST SAVED BY: jnygh



**CONCEPTUAL SITE PLAN - REFER TO  
MORTON BLVD SITE FOR CURRENT DESIGN**



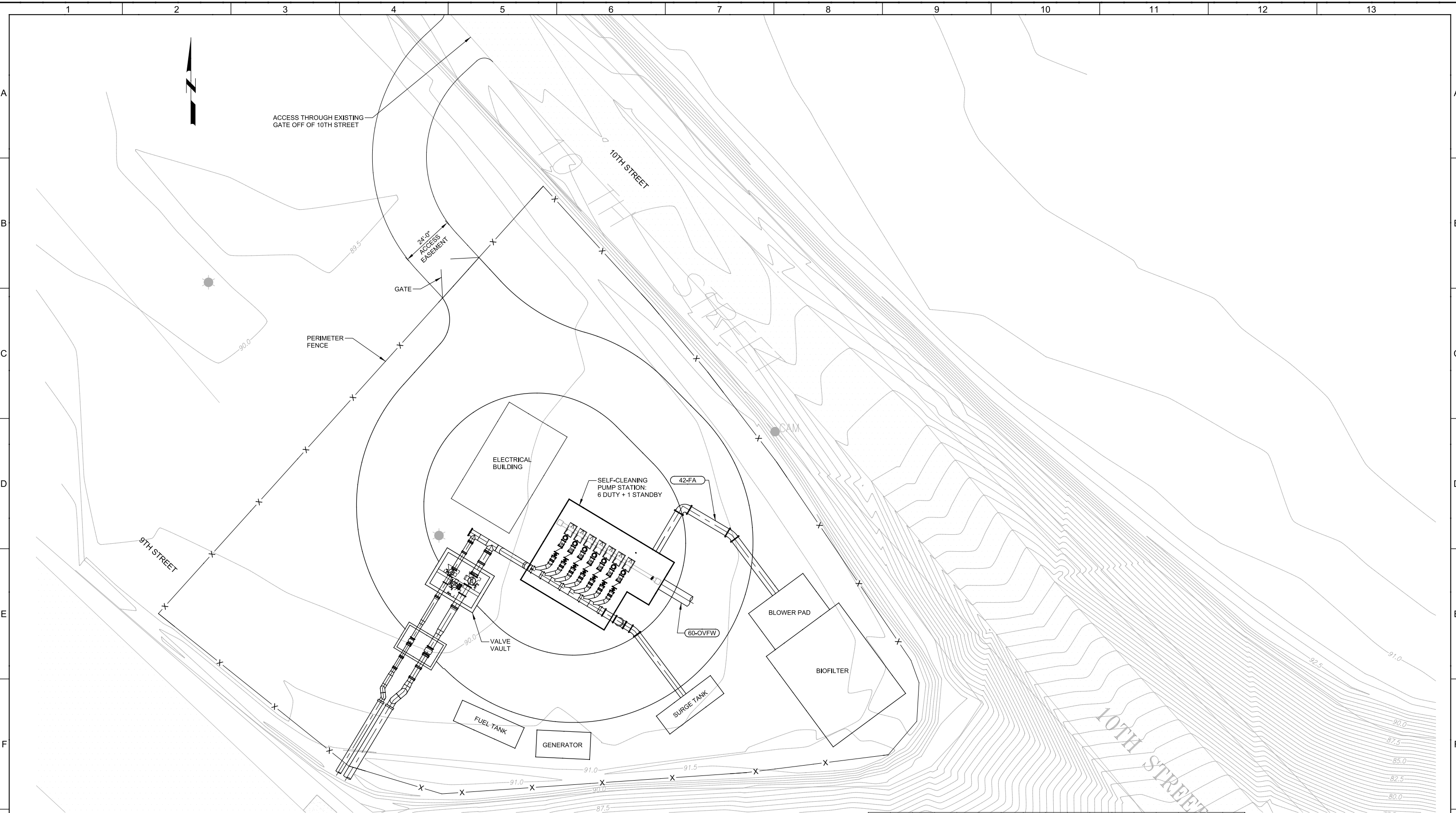
<b>35% DESIGN NOT FOR CONSTRUCTION</b>			DESIGNED RH DRAWN BH CHECKED TFT DATE MARCH 2015						CITY OF MODESTO RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION CIVIL <b>RTPS SITE PLAN BEARD - EAST</b>	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 9551A.00 DRAWING NO. <b>01C02</b> SHEET NO. XX OF XX
REV	DATE	BY	DESCRIPTION								
1											

Plot Date: 26-FEB-2015 4:32:46 PM

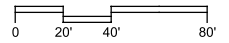
User: jpygh

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Std\_Pen\_v0805.pen PlotScale: 2:1

LAST SAVED BY: jpygh



CONCEPTUAL SITE PLAN - REFER TO  
MORTON BLVD SITE FOR CURRENT DESIGN



<b>35% DESIGN NOT FOR CONSTRUCTION</b>		
DESIGNED RH	PROJECT ENGINEER	
DRAWN BH	PROJECT MANAGER	
CHECKED TFT	PRINCIPAL	
DATE MARCH 2015		
REV	DATE	BY
1		
2		

**carollo**

**MODESTO CALIFORNIA**

CITY OF MODESTO

RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION

CIVIL

**RTPS SITE PLAN  
BEARD - WEST**

VERIFY SCALES	JOB NO. 9551A.00
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. <b>01C03</b>
0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. XX OF XX

Plot Date: 26-FEB-2015 10:18:59 AM

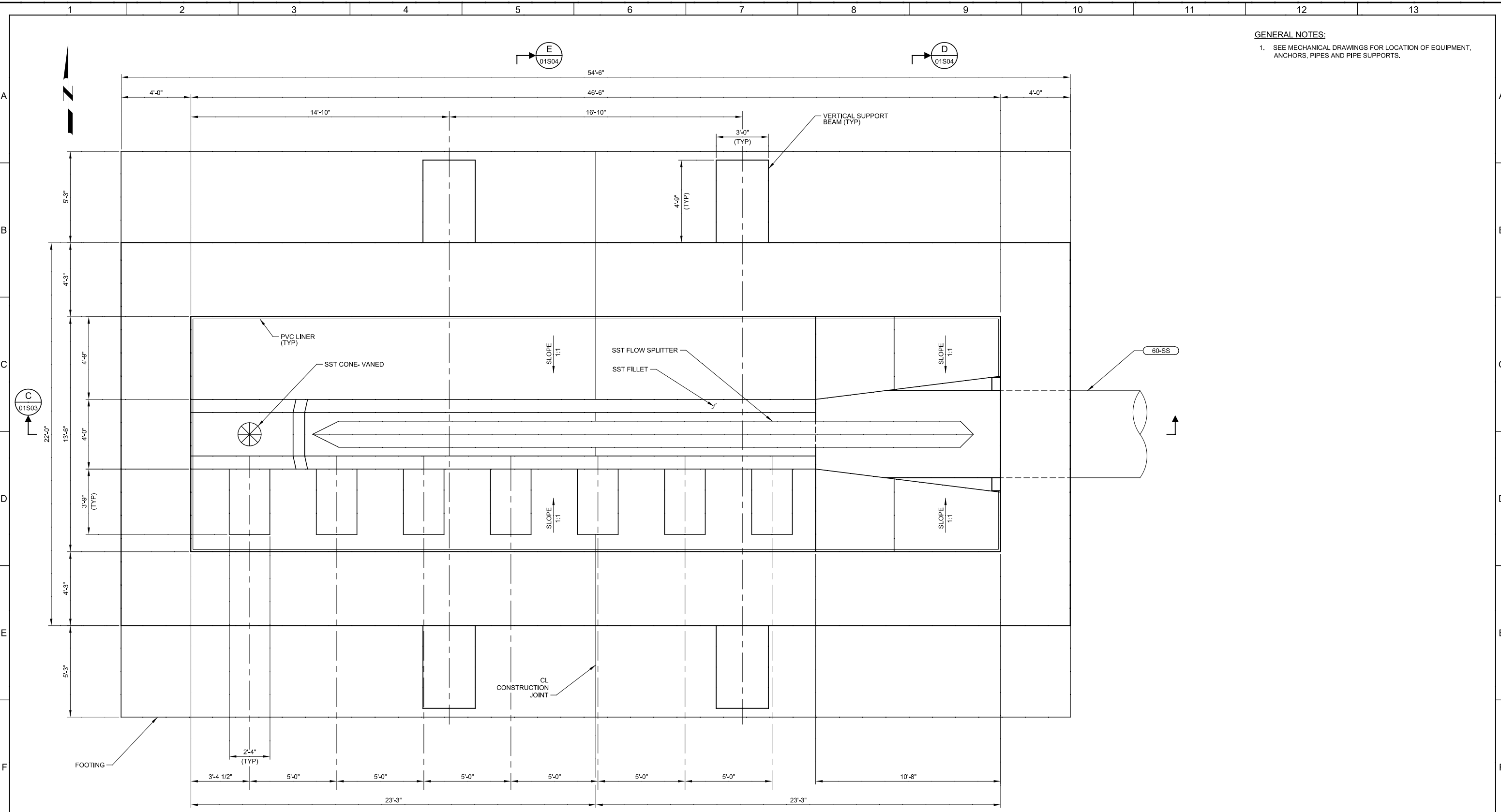
User: ELanzara

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0805.pen PlotScale: 2:1

LAST SAVED BY: ELanzara

**GENERAL NOTES:**

- 1. SEE MECHANICAL DRAWINGS FOR LOCATION OF EQUIPMENT, ANCHORS, PIPES AND PIPE SUPPORTS.

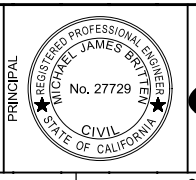
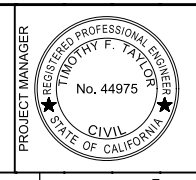


**A PUMP STATION - BOTTOM PLAN**  
 SCALE: 3/8" = 1'-0"  
 FILE: 9551A00S101

REV	DATE	BY	DESCRIPTION
1			
2			
3			

**35% DESIGN  
NOT FOR CONSTRUCTION**

DESIGNED  
AC/RAH  
DRAWN  
EL  
CHECKED  
TFT  
DATE  
MARCH 2015



CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 STRUCTURAL  
 RTPS  
 BOTTOM PLAN

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

JOB NO.  
9551A.00  
 DRAWING NO.  
**01S01**  
 SHEET NO.  
OF XX

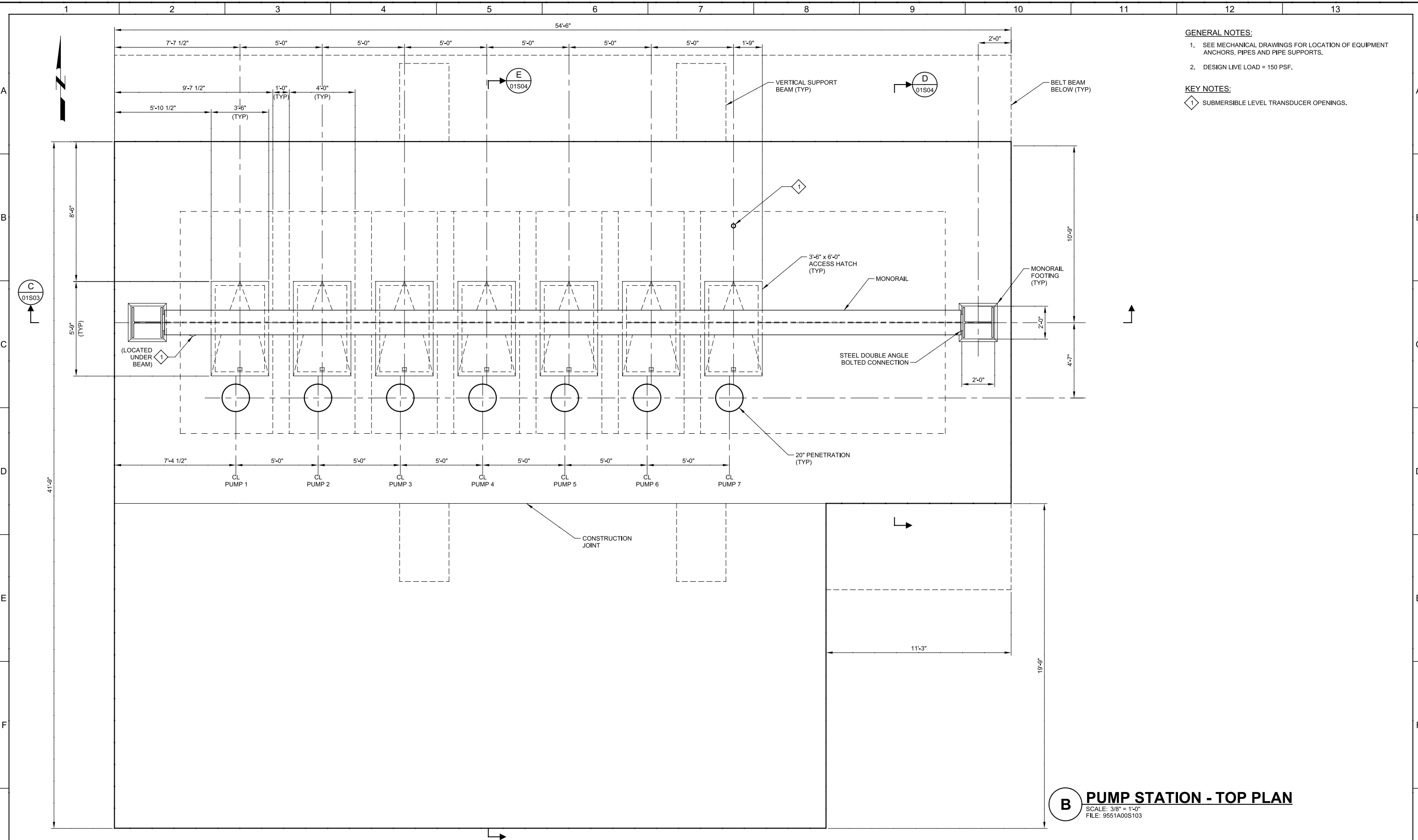
Plot Date: 26-FEB-2015 10:42:53 AM

User: ELanzara

PlotScale: 2:1

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen

LAST SAVED BY: ELanzara



- GENERAL NOTES:**
- SEE MECHANICAL DRAWINGS FOR LOCATION OF EQUIPMENT ANCHORS, PIPES AND PIPE SUPPORTS.
  - DESIGN LIVE LOAD = 150 PSF.
- KEY NOTES:**
- 1 SUBMERSIBLE LEVEL TRANSDUCER OPENINGS.

**B PUMP STATION - TOP PLAN**  
 SCALE: 3/8" = 1'-0"  
 FILE: 9551A00S103

<b>35% DESIGN NOT FOR CONSTRUCTION</b>			
DESIGNED AC/RAH		PROJECT ENGINEER	
DRAWN EL			
CHECKED TFT			
DATE MARCH 2015		PRINCIPAL	
REV	DATE	BY	DESCRIPTION
1			

CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 STRUCTURAL  
 RTPS  
 TOP PLAN

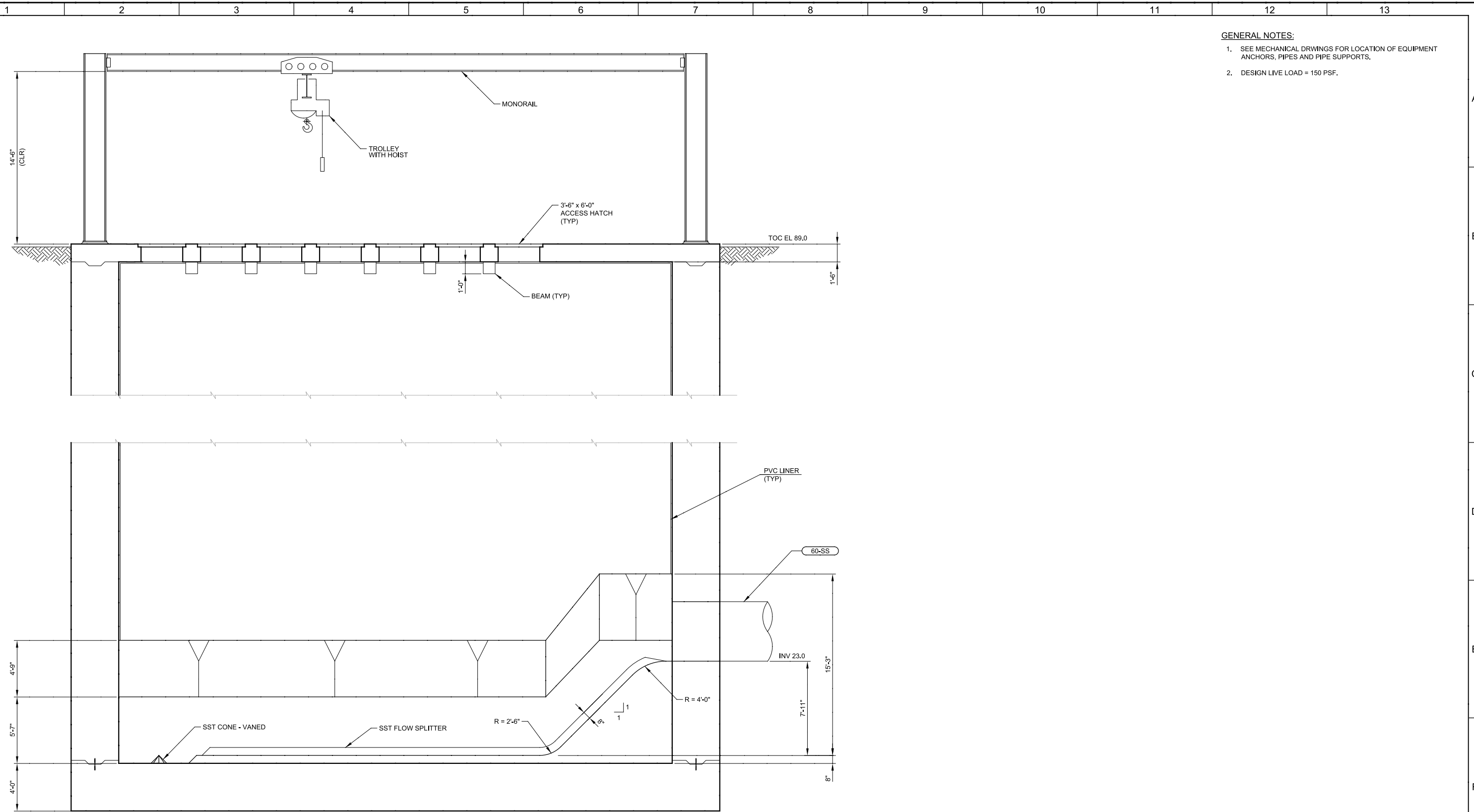
VERIFY SCALES	JOB NO. 9551A.00
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. <b>01S02</b>
0 1"	SHEET NO. OF XX
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

Plot Date: 27-FEB-2015 3:53:12 PM

User: ELanzara

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: ELanzara



- GENERAL NOTES:**
1. SEE MECHANICAL DRAWINGS FOR LOCATION OF EQUIPMENT ANCHORS, PIPES AND PIPE SUPPORTS.
  2. DESIGN LIVE LOAD = 150 PSF.

**C PUMP STATION - SECTION**  
 01S01 SCALE: 1/4"=1'-0"  
 FILE: 9551A00S301

35% DESIGN NOT FOR CONSTRUCTION		
DESIGNED AC/RAH	DRAWN EL	CHECKED TFT
DATE MARCH 2015		
REV	DATE	BY
1		
2		
3		

PROJECT ENGINEER  
 REGISTERED PROFESSIONAL ENGINEER  
 ALICE ASNA CHIKEREMAN  
 No. 83031  
 CIVIL  
 STATE OF CALIFORNIA

PROJECT MANAGER  
 REGISTERED PROFESSIONAL ENGINEER  
 TIMOTHY F. TAYLOR  
 No. 44975  
 CIVIL  
 STATE OF CALIFORNIA

PRINCIPAL  
 REGISTERED PROFESSIONAL ENGINEER  
 MICHAEL JAMES BRITTON  
 No. 27729  
 CIVIL  
 STATE OF CALIFORNIA



CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 STRUCTURAL  
 RTPS  
 SECTION

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

JOB NO.  
9551A.00  
 DRAWING NO.  
**01S03**  
 SHEET NO.  
OF XX

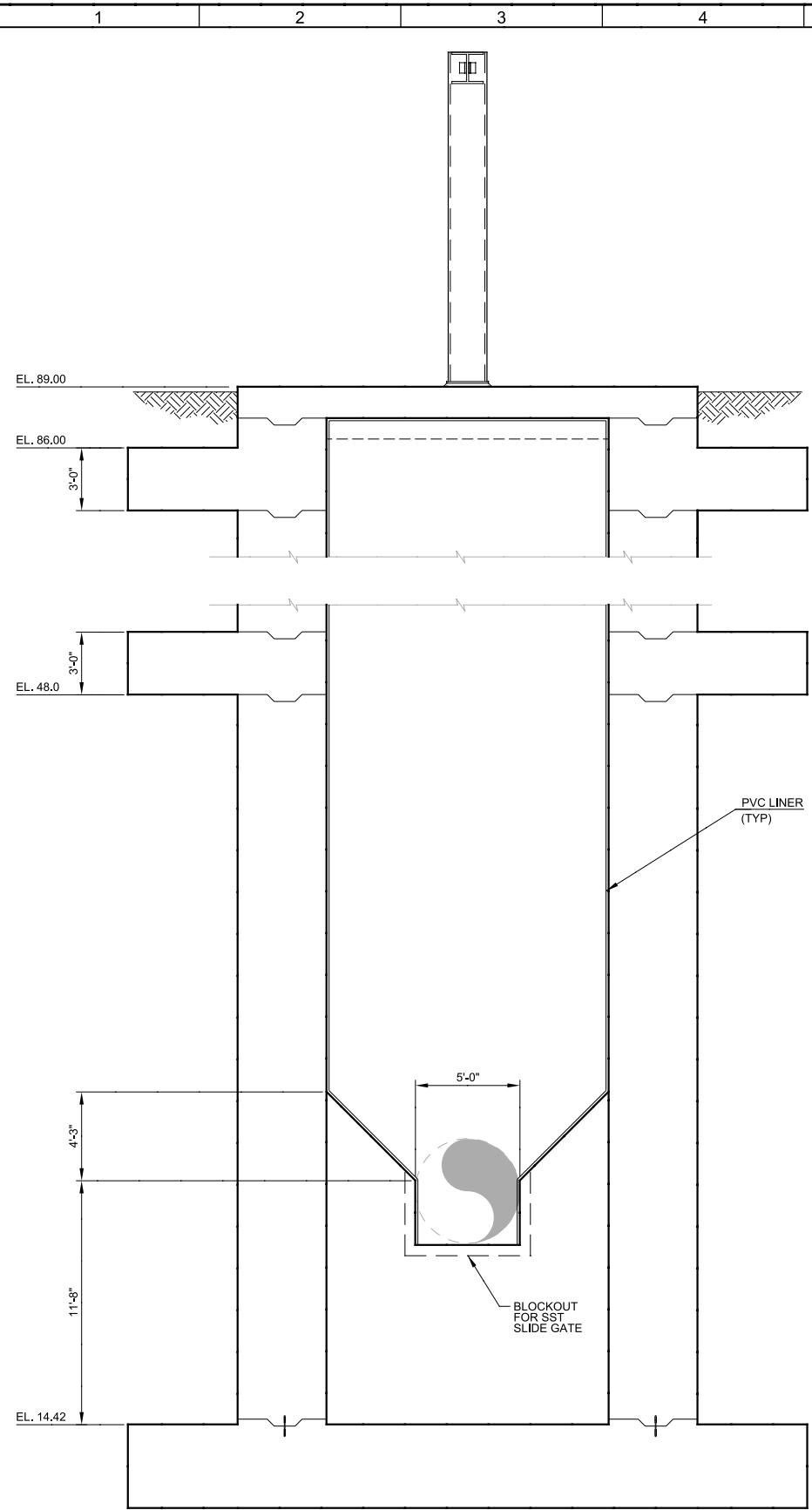
Plot Date: 27-FEB-2015 3:00:26 PM

User: ELanzara

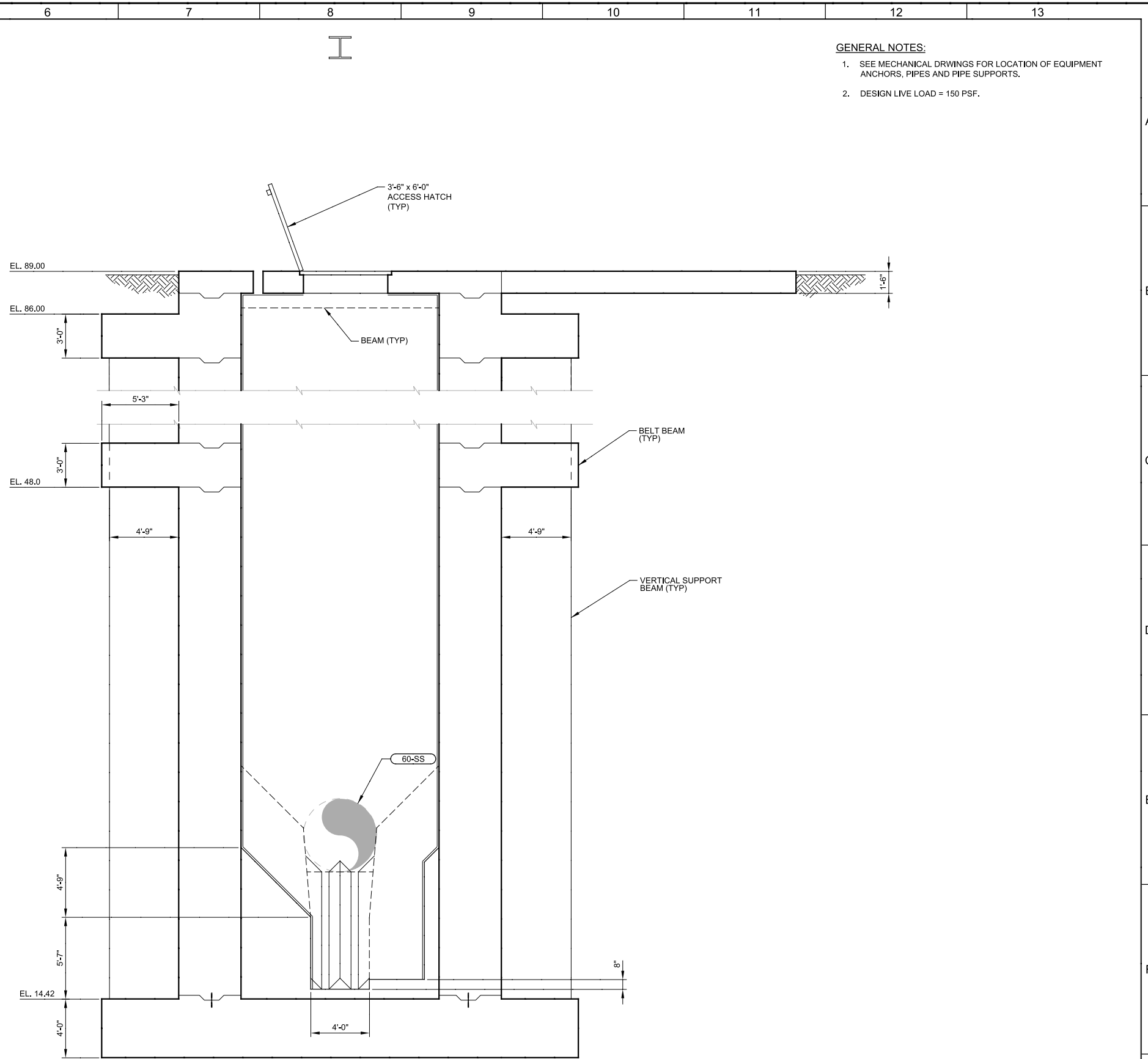
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0805.pen PlotScale: 2:1

LAST SAVED BY: ELanzara

- GENERAL NOTES:**
- SEE MECHANICAL DRAWINGS FOR LOCATION OF EQUIPMENT ANCHORS, PIPES AND PIPE SUPPORTS.
  - DESIGN LIVE LOAD = 150 PSF.



**D PUMP STATION - SECTION**  
 01S01 SCALE: 1/4"=1'-0"  
 FILE: 9551A00S301



**E PUMP STATION - SECTION**  
 01S01 SCALE: 1/4"=1'-0"  
 FILE: 9551A00S301

<b>35% DESIGN NOT FOR CONSTRUCTION</b>			
DESIGNED AC/RAH	DRAWN EL	CHECKED TFT	DATE MARCH 2015
PROJECT ENGINEER	PROJECT ENGINEER	PROJECT ENGINEER	PROJECT ENGINEER
REGISTERED PROFESSIONAL ENGINEER ALICE ANNA CHIKEREMAN No. 83031 CIVIL STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER TIMOTHY F. TAYLOR No. 44975 CIVIL STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES BRITTON No. 27729 CIVIL STATE OF CALIFORNIA	REGISTERED PROFESSIONAL ENGINEER MICHAEL JAMES BRITTON No. 27729 CIVIL STATE OF CALIFORNIA
REV	DATE	BY	DESCRIPTION
1			

**carollo**

**MODESTO CALIFORNIA**

CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 STRUCTURAL  
 RTPS SECTIONS

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

JOB NO. 9551A.00  
 DRAWING NO. 01S04  
 SHEET NO. OF XX

Plot Date: 26-FEB-2015 1:26:22 PM

User: ELanzara

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0805.pen PlotScale: 2:1

LAST SAVED BY: ELanzara

1 2 3 4 5 6 7 8 9 10 11 12 13

A

B

C

D

E

F

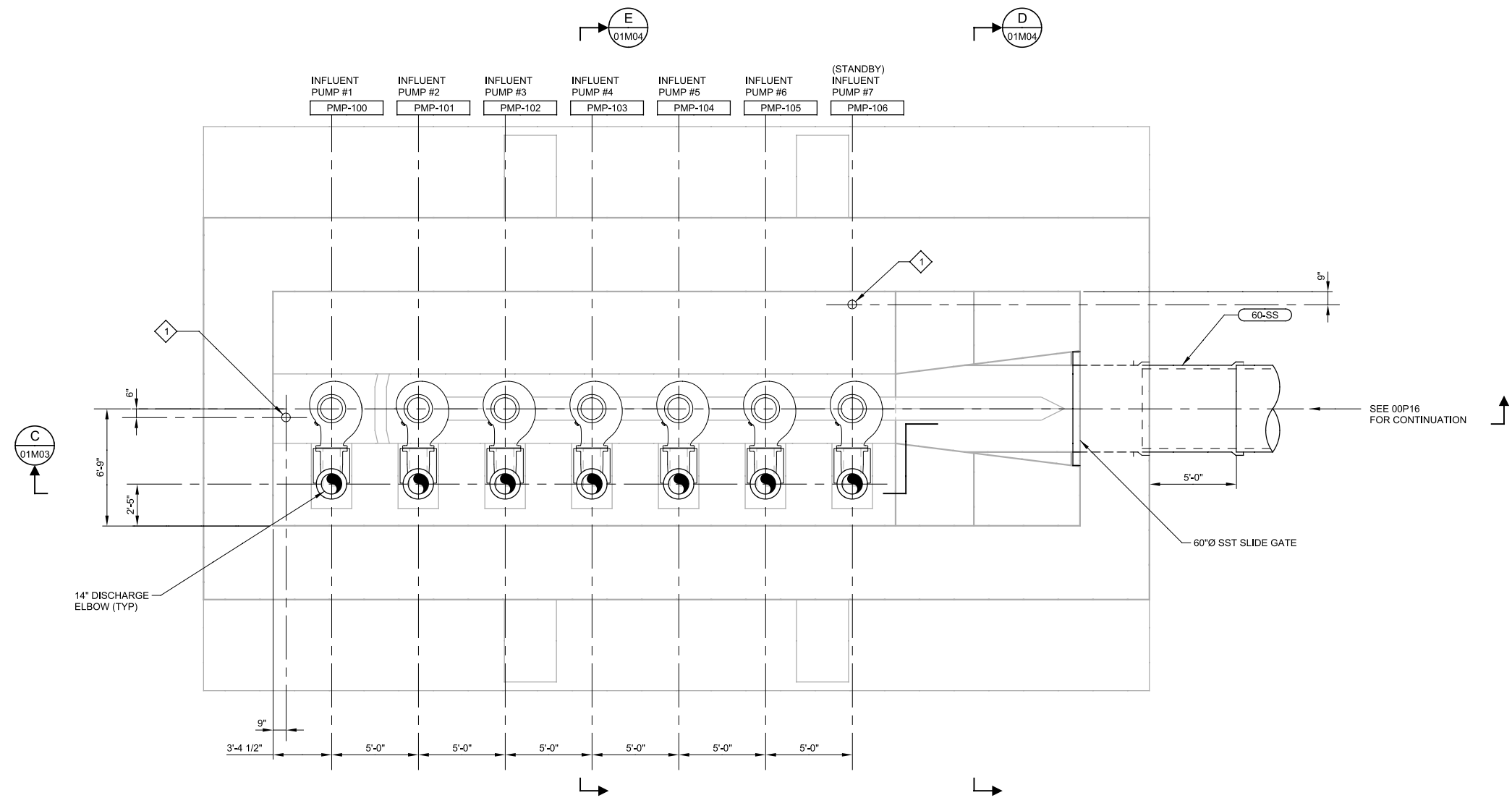
G

**GENERAL NOTES:**

- PUMP STATION WILL OPERATE WITH 6 DUTY PUMPS AND 1 STANDBY AT PWWF MAX FLOWS. ANY PUMP MAY BE STANDBY PUMP.

**KEY NOTES:**

◇ SUBMERSIBLE LEVEL TRANSDUCER.

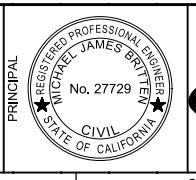
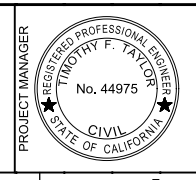
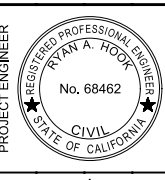


**A PUMP STATION - BOTTOM PLAN**  
 SCALE: 1/4" = 1'-0"  
 FILE: 9551A00M101

REV	DATE	BY	DESCRIPTION
1			
2			
3			

**35% DESIGN  
 NOT FOR CONSTRUCTION**

DESIGNED  
RH  
 DRAWN  
EL  
 CHECKED  
TFT  
 DATE  
MARCH 2015

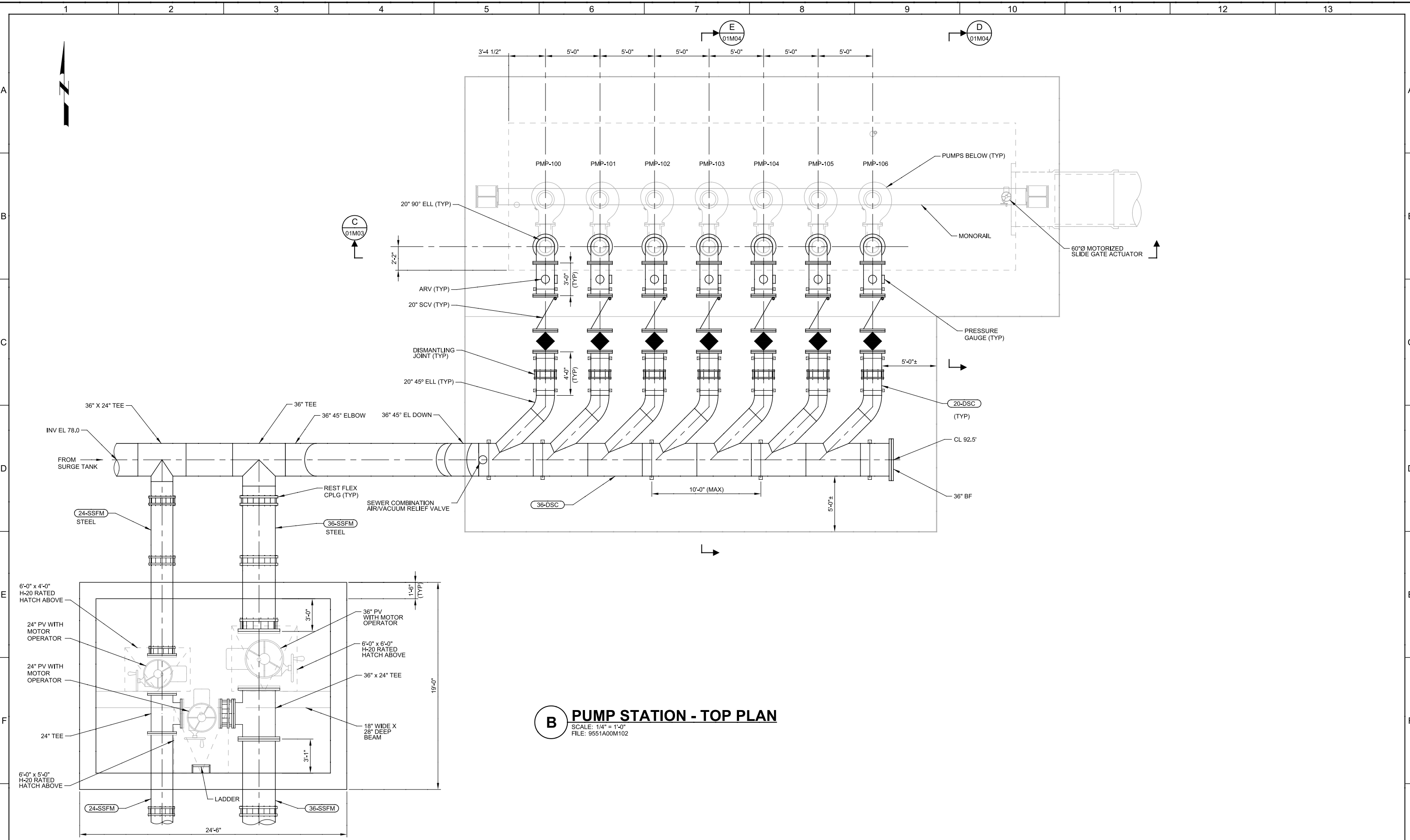


CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 MECHANICAL  
 RTPS  
 BOTTOM PLAN

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

JOB NO.  
9551A.00  
 DRAWING NO.  
**01M01**  
 SHEET NO.  
OF XX

Plot Date: 26-FEB-2015 3:17:25 PM  
 User: ELanzara  
 Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1  
 LAST SAVED BY: ELanzara



**35% DESIGN  
NOT FOR CONSTRUCTION**

REV	DATE	BY	DESCRIPTION
1			
2			

DESIGNED RH  
 DRAWN EL  
 CHECKED TFT  
 DATE MARCH 2015

PROJECT ENGINEER  
 RYAN A. HOOK  
 No. 68462  
 CIVIL  
 STATE OF CALIFORNIA

PROJECT MANAGER  
 TIMOTHY F. TAYLOR  
 No. 44975  
 CIVIL  
 STATE OF CALIFORNIA

PRINCIPAL  
 MICHAEL JAMES BRITTON  
 No. 27729  
 CIVIL  
 STATE OF CALIFORNIA



CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 MECHANICAL  
 RTPS  
 TOP PLAN

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

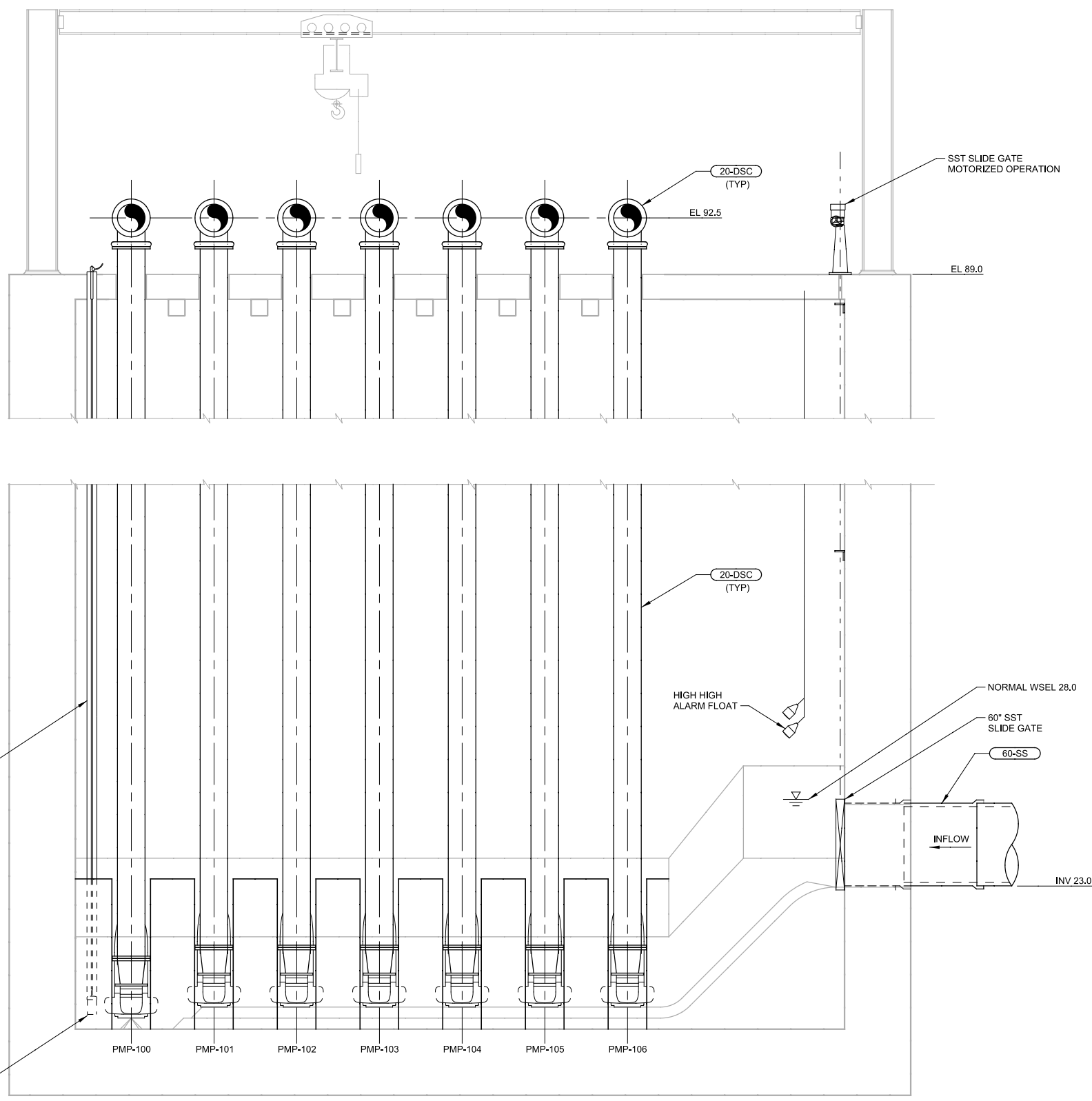
JOB NO. 9551A.00  
 DRAWING NO. 01M02  
 SHEET NO. OF XX

Plot Date: 27-FEB-2015 4:25:20 PM

User: MRoper

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sig\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: Elanzara



**C PUMP STATION - SECTION**  
 01M01 SCALE: 1/4"=1'-0"  
 FILE: 9551A00M301

**35% DESIGN  
 NOT FOR CONSTRUCTION**

DESIGNED  
RH  
 DRAWN  
EL  
 CHECKED  
TFT  
 DATE  
MARCH 2015



CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 MECHANICAL  
**RTPS  
 SECTION**

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

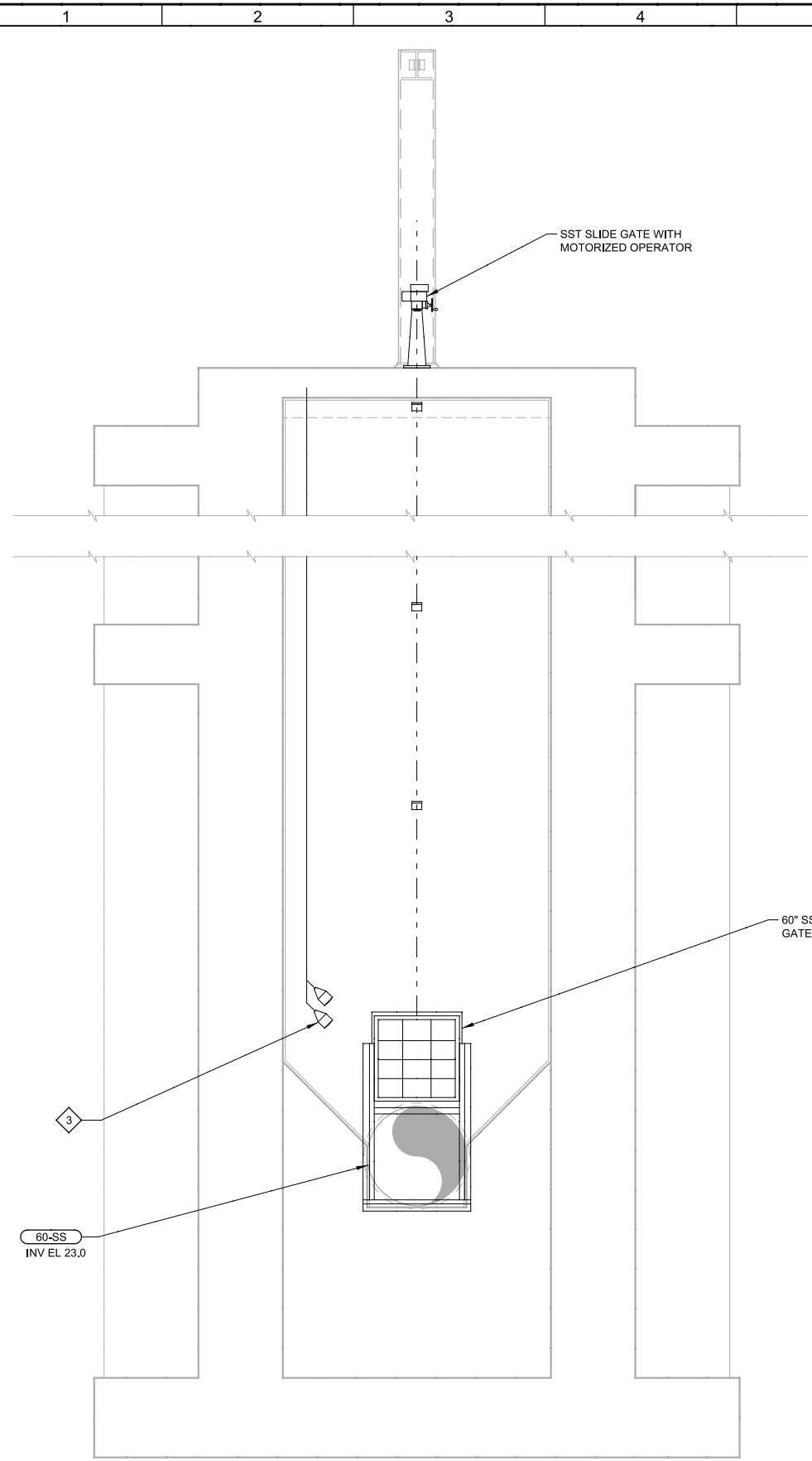
JOB NO.  
9551A.00  
 DRAWING NO.  
**01M03**  
 SHEET NO.  
OF XX

Plot Date: 27-FEB-2015 3:54:49 PM

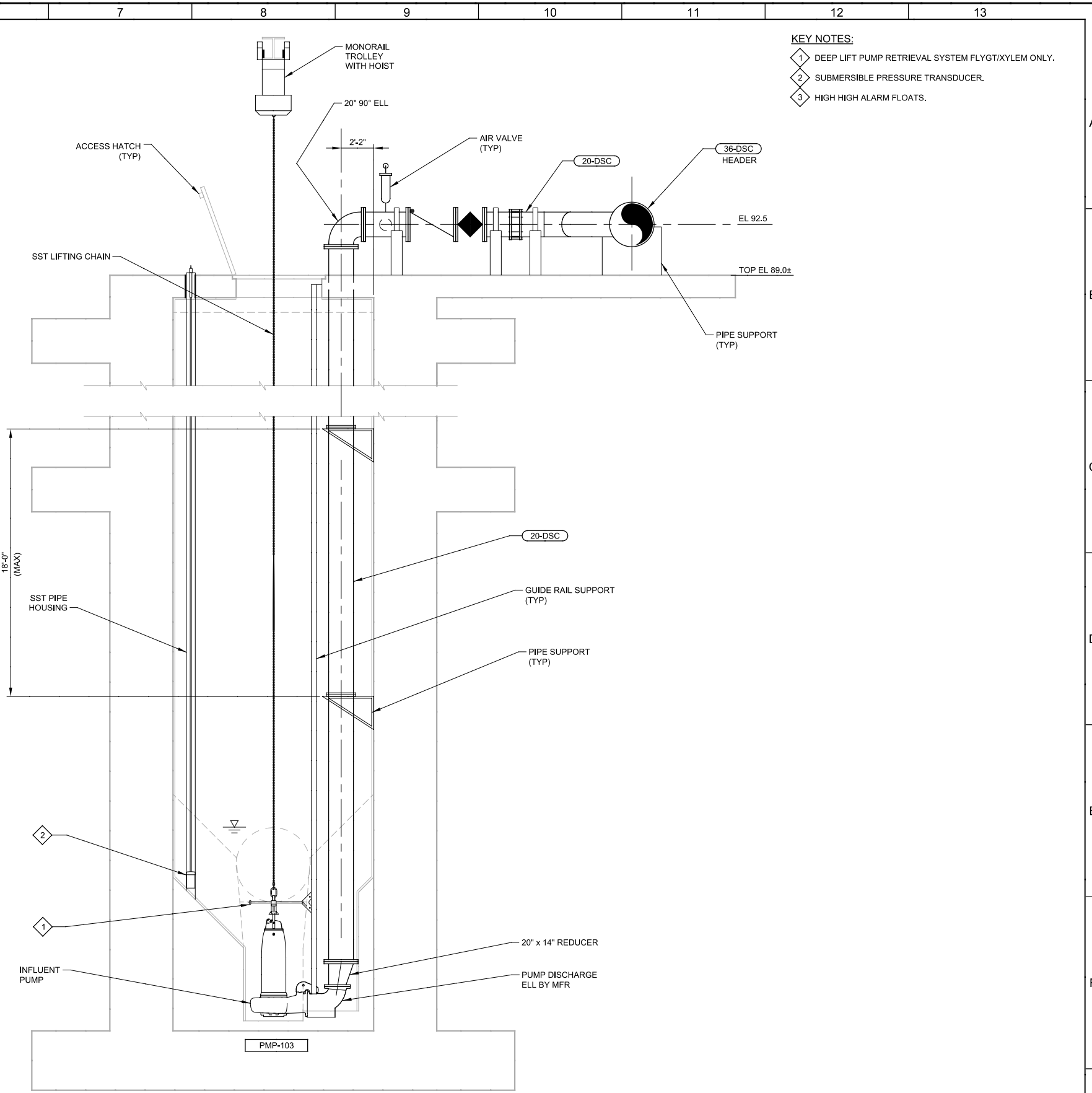
User: ELanzara

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: ELanzara



**D PUMP STATION - SECTION**  
 01M01 SCALE: 1/4"=1'-0"  
 FILE: 9551A00S301



**E PUMP STATION - SECTION**  
 01M01 SCALE: 1/4"=1'-0"  
 FILE: 9551A00S301

- KEY NOTES:**
- 1 DEEP LIFT PUMP RETRIEVAL SYSTEM FLYGT/XYLEM ONLY.
  - 2 SUBMERSIBLE PRESSURE TRANSDUCER.
  - 3 HIGH HIGH ALARM FLOATS.

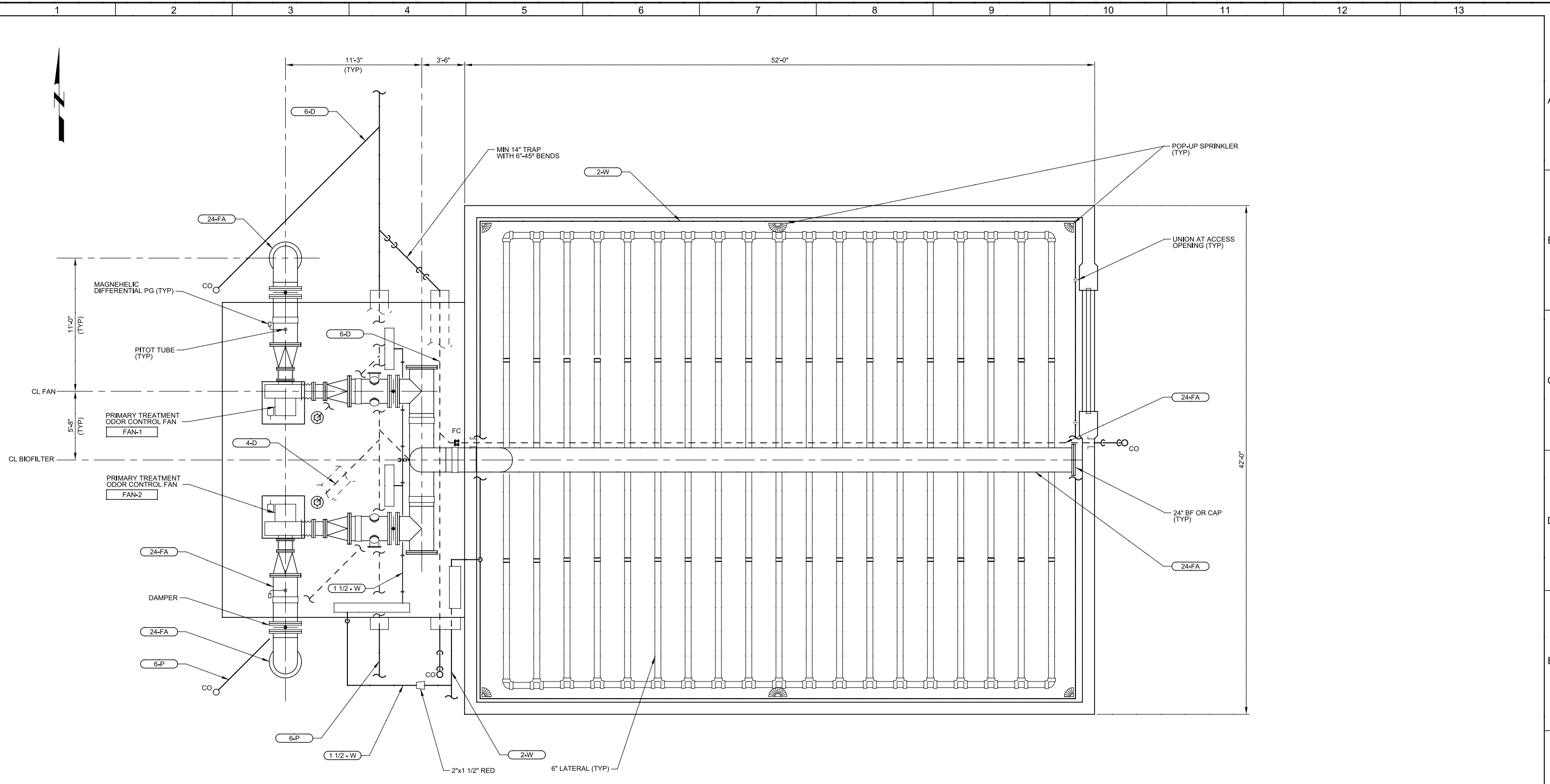
<b>35% DESIGN NOT FOR CONSTRUCTION</b>			DESIGNED RH						CITY OF MODESTO RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION			VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING	JOB NO. 9551A.00
			DRAWN EL						MECHANICAL <b>RTPS SECTIONS</b>			0 1"	DRAWING NO. <b>01M04</b>
CHECKED TFT	DATE MARCH 2015									IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. OF XX		
REV	DATE	BY	DESCRIPTION										

Plot Date: 25-FEB-2015 12:51:56 PM

User: ELanzara

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Std\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: ELanzara



**A PLAN**  
 SCALE: 1/4" = 1'-0"  
 FILE: 9551A00M115

<b>35% DESIGN NOT FOR CONSTRUCTION</b>			
DESIGNED RAH	DRAWN EL	CHECKED TFT	DATE MARCH 2015
PROJECT ENGINEER 	PROJECT MANAGER 	PRINCIPAL 	
REV	DATE	BY	DESCRIPTION
1			

**carollo**

**MODESTO CALIFORNIA**

**CITY OF MODESTO**

**RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION**

MECHANICAL

**RTPS BIOFILTER PLAN**

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

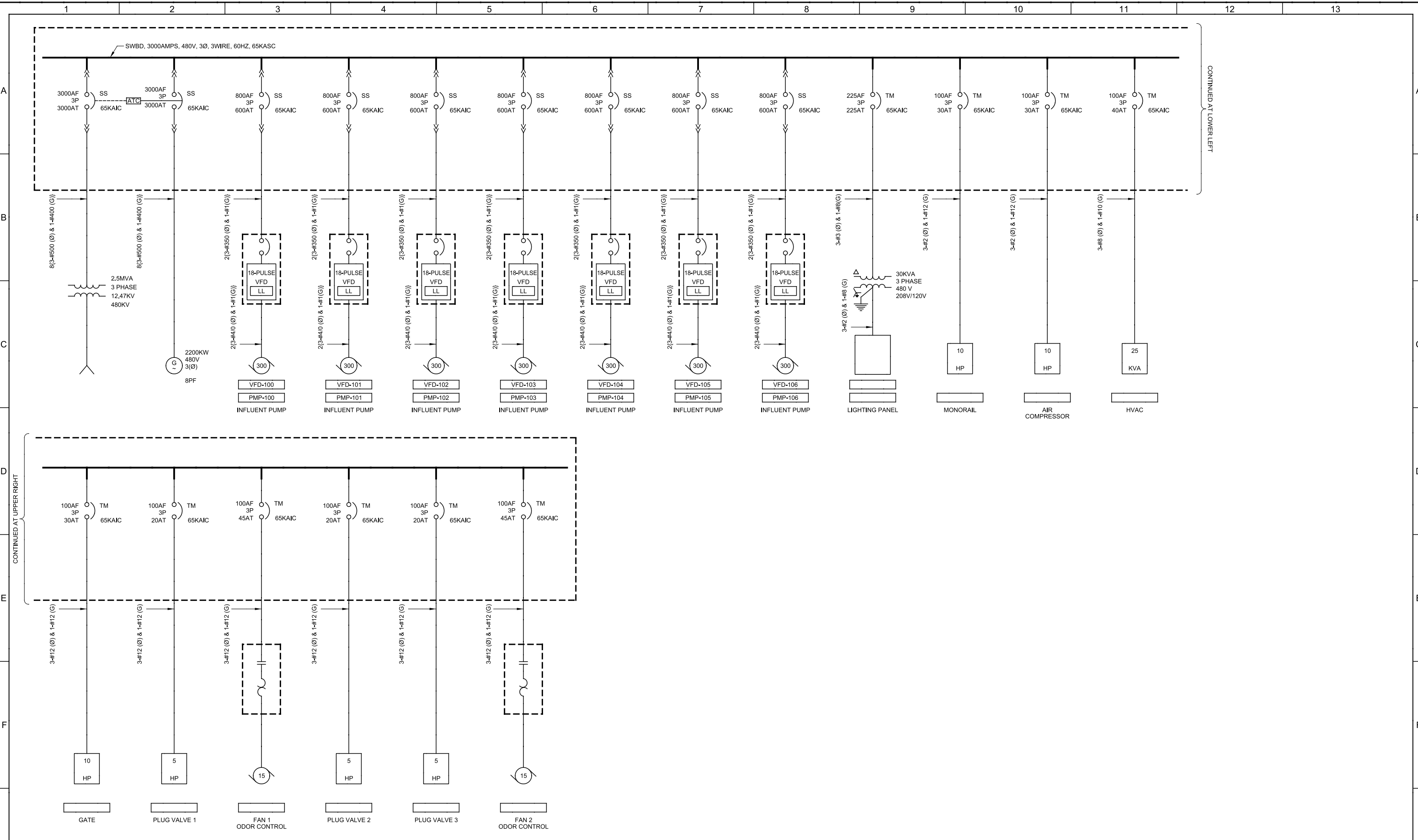
JOB NO. 9551A.00  
 DRAWING NO. **01M05**  
 SHEET NO. OF XX

Plot Date: 27-FEB-2015 4:47:30 PM

User: CRollins

Model: Layout1 ColorTable: gshades.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: crollins

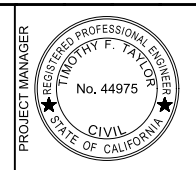


CONTINUED AT LOWER LEFT

CONTINUED AT UPPER RIGHT

35% DESIGN  
NOT FOR CONSTRUCTION

DESIGNED	PLL
DRAWN	MEK
CHECKED	TFT
DATE	MARCH 2015
PROJECT ENGINEER	



CITY OF MODESTO  
RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
ELECTRICAL  
RTPS ONE-LINE

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

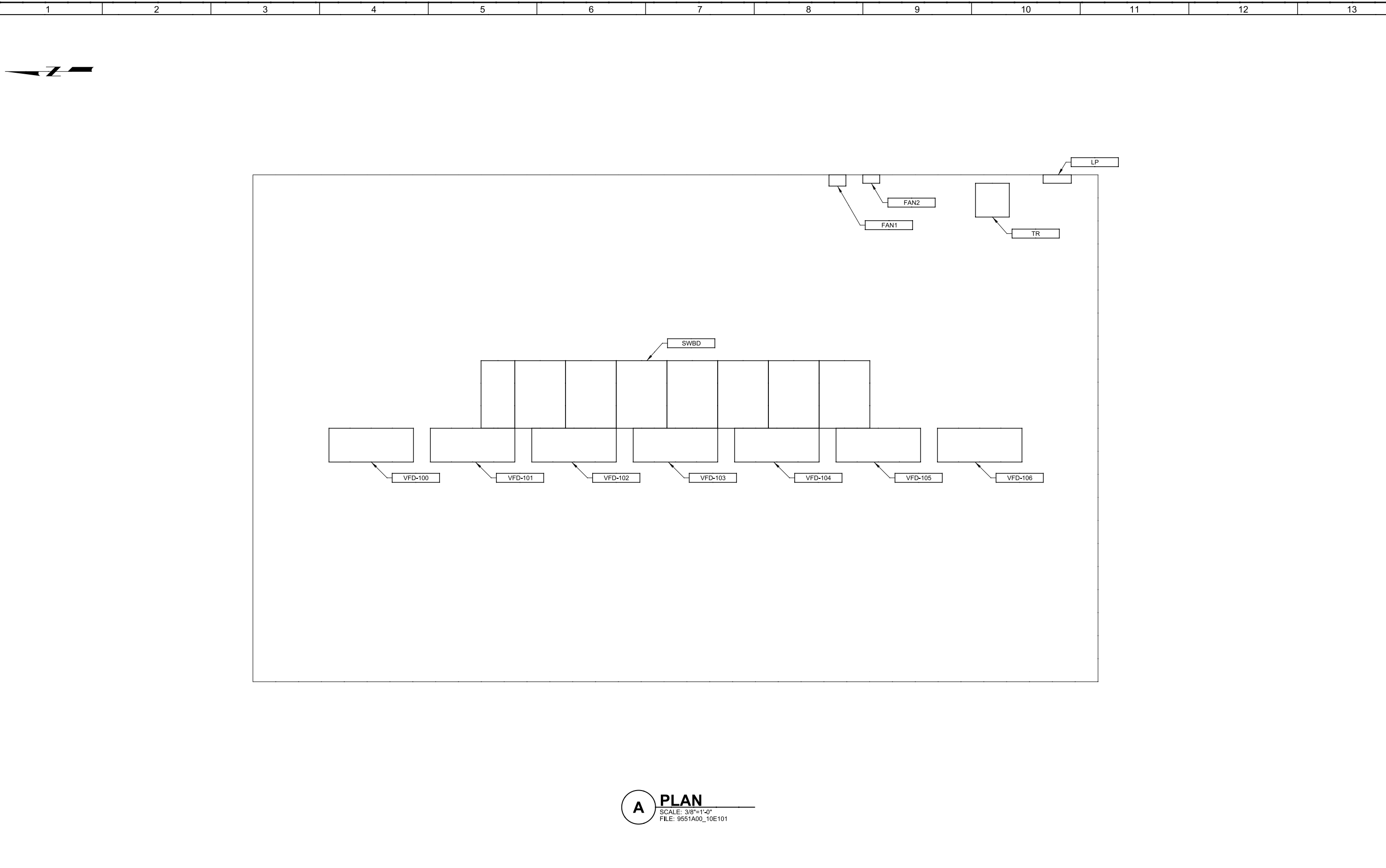
JOB NO. 9551A.00  
DRAWING NO. 01E01  
SHEET NO. OF XX

Plot Date: 27-FEB-2015 4:47:45 PM

User: CRollins

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Std\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: crollins

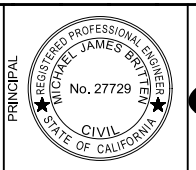
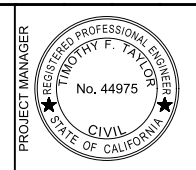


**A PLAN**  
 SCALE: 3/8"=1'-0"  
 FILE: 9551A00\_10E101

REV	DATE	BY	DESCRIPTION

**35% DESIGN  
 NOT FOR CONSTRUCTION**

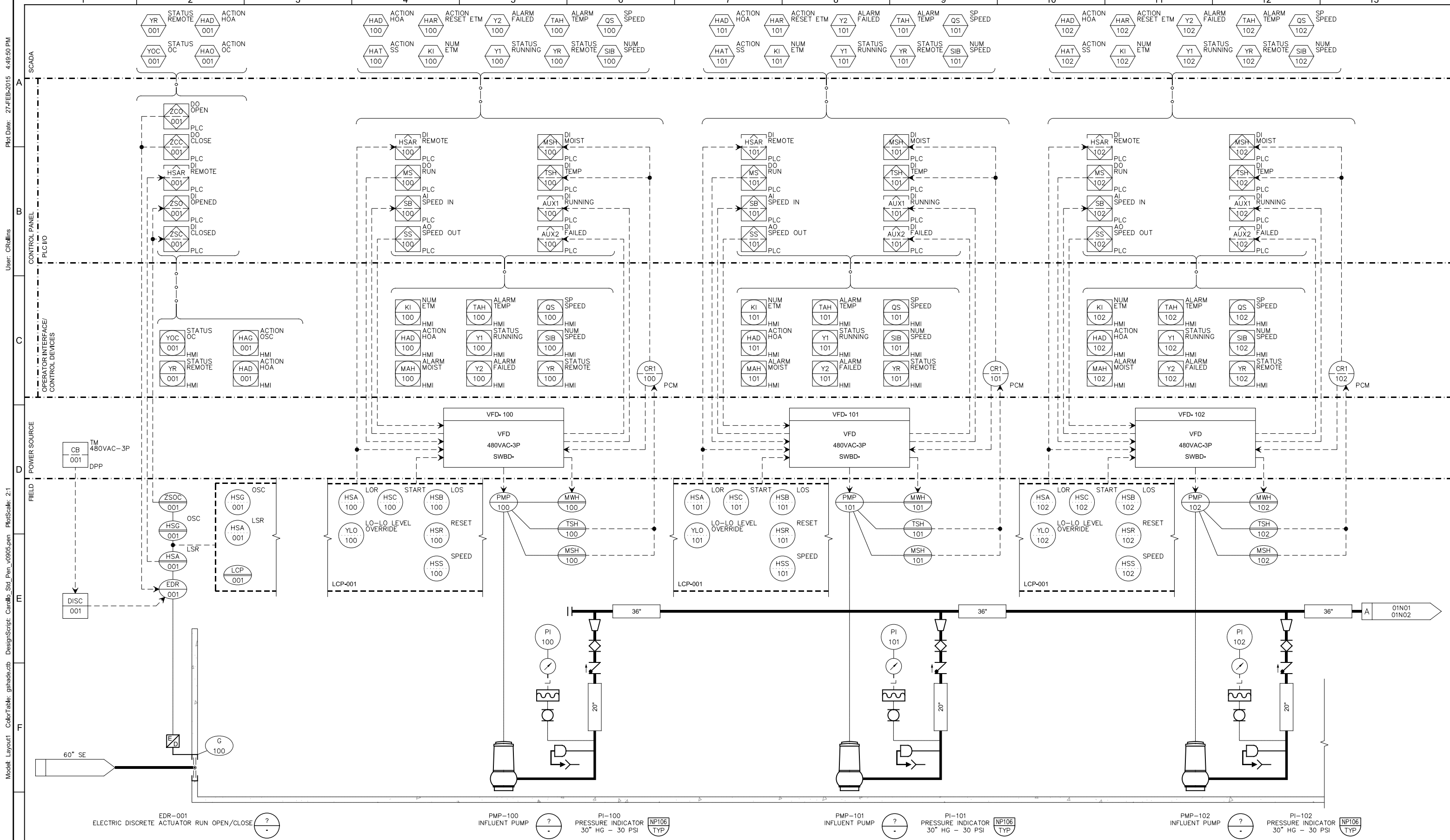
DESIGNED  
 PLL  
 DRAWN  
 TLM  
 CHECKED  
 TFT  
 DATE  
 MARCH 2015



CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 ELECTRICAL  
 RTPS ELECTRICAL BUILDING

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

JOB NO.  
 9551A.00  
 DRAWING NO.  
**01E02**  
 SHEET NO.  
 OF XX



Plot Date: 27-FEB-2015 4:49:50 PM  
 User: CRollins  
 Model: Layout1 ColorTable: gshade.cab DesignScript: Carollo\_Std\_Pen\_v0905.pen PlotScale: 2:1  
 LAST SAVED BY: crollins

EDR-001 ELECTRIC DISCRETE ACTUATOR RUN OPEN/CLOSE  
 PMP-100 INFLUENT PUMP  
 PI-100 PRESSURE INDICATOR 30" HG - 30 PSI  
 PMP-101 INFLUENT PUMP  
 PI-101 PRESSURE INDICATOR 30" HG - 30 PSI  
 PMP-102 INFLUENT PUMP  
 PI-102 PRESSURE INDICATOR 30" HG - 30 PSI

**35% DESIGN  
NOT FOR CONSTRUCTION**

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED PP  
 DRAWN CGR  
 CHECKED TFT  
 DATE MARCH 2015  
 PROJECT ENGINEER  
 REGISTERED PROFESSIONAL ENGINEER  
 PAUL E. POST  
 No. 17119  
 ELECTRICAL  
 STATE OF CALIFORNIA  
 PROJECT MANAGER  
 REGISTERED PROFESSIONAL ENGINEER  
 TIMOTHY F. TAYLOR  
 No. 44975  
 CIVIL  
 STATE OF CALIFORNIA  
 PRINCIPAL  
 REGISTERED PROFESSIONAL ENGINEER  
 MICHAEL JAMES BRITTELL  
 No. 27729  
 CIVIL  
 STATE OF CALIFORNIA

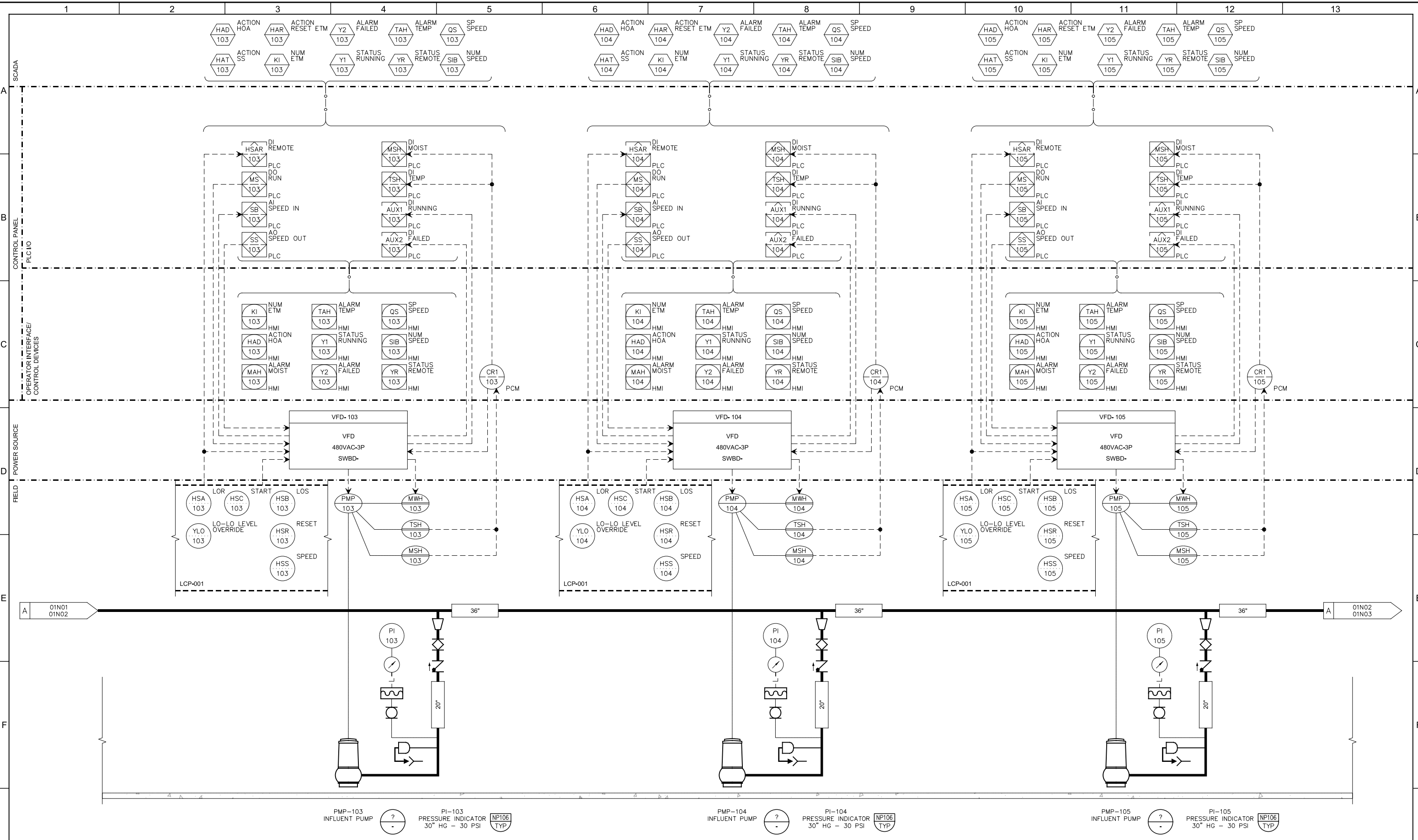


CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 INSTRUMENTATION  
 RTPS P&ID  
 PUMPS 1, 2, AND 3

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

JOB NO. 9551A.00  
 DRAWING NO. 01N01  
 SHEET NO. OF XX

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Std\_Pen\_v0905.pen PlotScale: 2:1  
 User: CRollins  
 Plot Date: 27-FEB-2015 4:50:06 PM  
 LAST SAVED BY: crollins



PMP-103 INFLUENT PUMP    PI-103 PRESSURE INDICATOR 30" HG - 30 PSI    NPT106 TYP  
 PMP-104 INFLUENT PUMP    PI-104 PRESSURE INDICATOR 30" HG - 30 PSI    NPT106 TYP  
 PMP-105 INFLUENT PUMP    PI-105 PRESSURE INDICATOR 30" HG - 30 PSI    NPT106 TYP

<b>35% DESIGN NOT FOR CONSTRUCTION</b>			
DESIGNED PP	DRAWN CGR	CHECKED TFT	DATE MARCH 2015
PROJECT ENGINEER	PROJECT MANAGER	PRINCIPAL	
REV	DATE	BY	DESCRIPTION
1			

**carollo**

MODESTO CALIFORNIA

CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 INSTRUMENTATION  
**RTPS P&ID  
 PUMPS 4, 5 AND 6**

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 9551A.00 DRAWING NO. <b>01N02</b> SHEET NO. OF XX
--	--

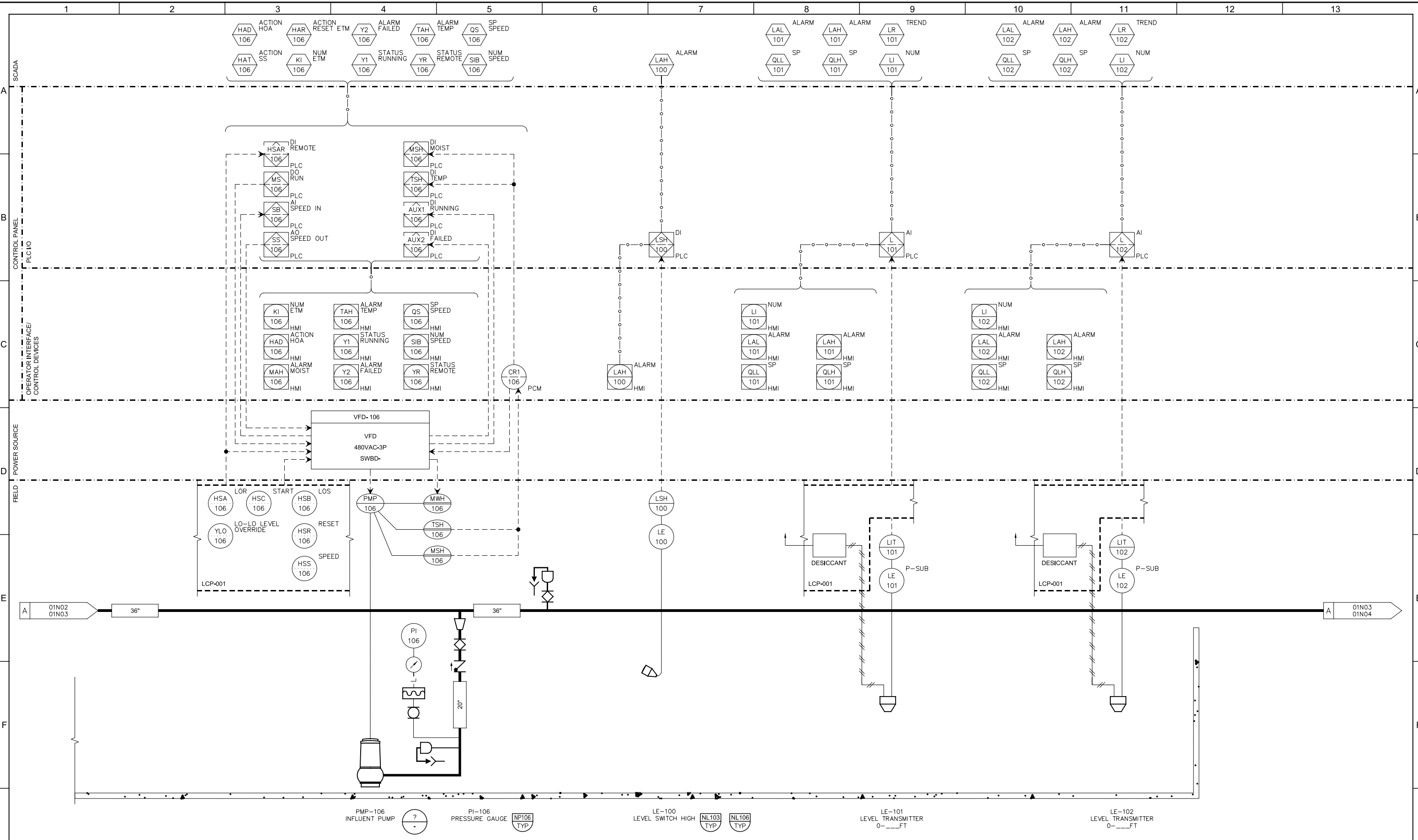
Plot Date: 27-FEB-2015 4:50:19 PM

User: CRollins

Model: Layout1

ColorTable: gshade.ctb DesignScript: Carollo\_Std\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: crollins



PMP-106 INFLUENT PUMP  
 PI-106 PRESSURE GAUGE  
 LE-100 LEVEL SWITCH HIGH  
 LE-101 LEVEL TRANSMITTER  
 LE-102 LEVEL TRANSMITTER

<b>35% DESIGN NOT FOR CONSTRUCTION</b>			
DESIGNED PP	DRAWN CGR	CHECKED TFT	DATE MARCH 2015
PROJECT ENGINEER	PROJECT MANAGER	PRINCIPAL	
REV	DATE	BY	DESCRIPTION
1			

REGISTERED PROFESSIONAL ENGINEER  
**PAUL E. POST**  
 No. 17119  
 ELECTRICAL  
 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER  
**TIMOTHY F. TAYLOR**  
 No. 44975  
 CIVIL  
 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER  
**MICHAEL JAMES BRITTON**  
 No. 27729  
 CIVIL  
 STATE OF CALIFORNIA

**carollo**

**MODESTO CALIFORNIA**

**CITY OF MODESTO**

**RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION**

INSTRUMENTATION  
**RTPS P&ID  
PUMP 7**

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

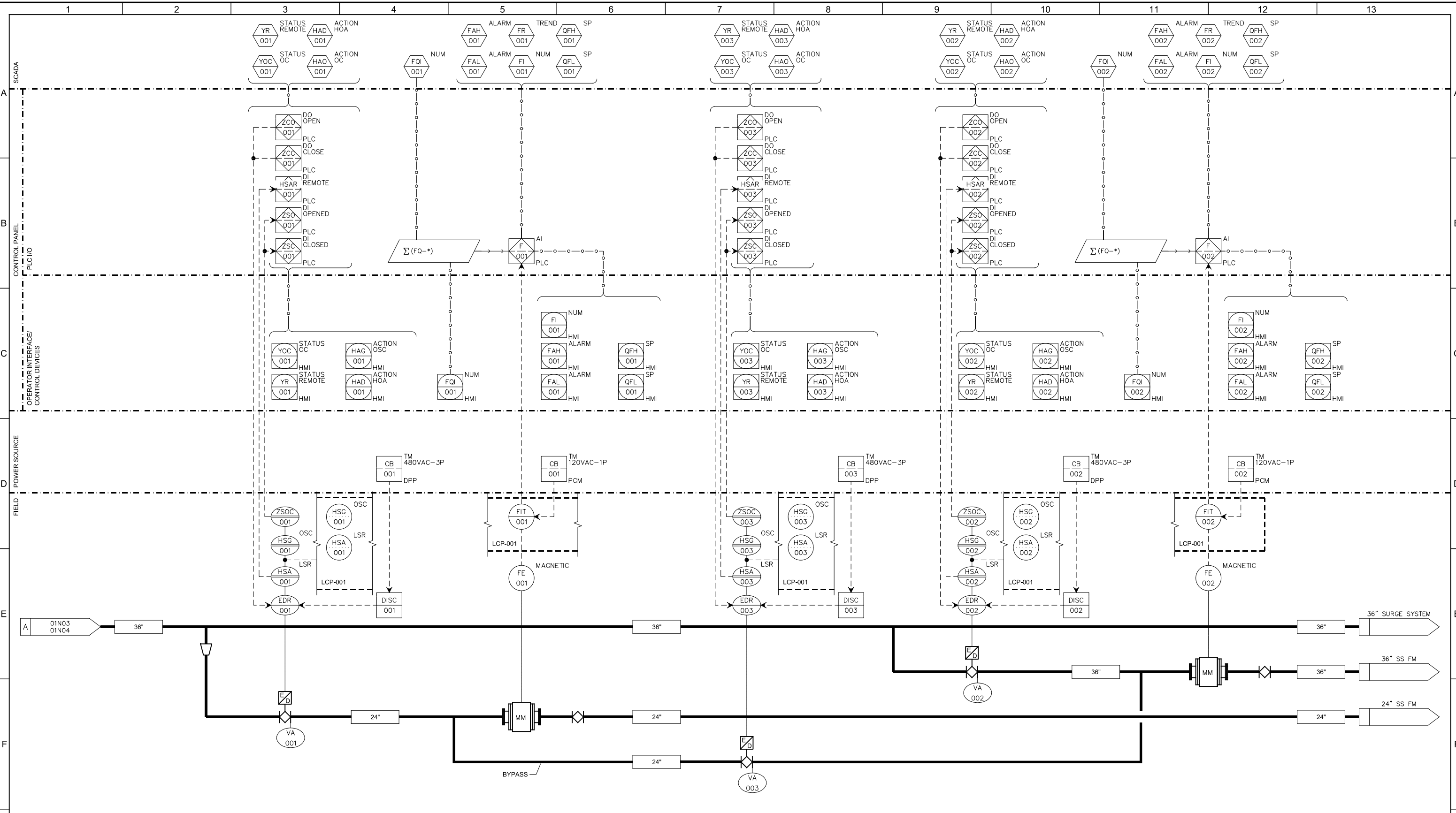
JOB NO. 9551A.00  
 DRAWING NO. **01N03**  
 SHEET NO. OF XX

Plot Date: 27-FEB-2015 4:50:32 PM

User: CRollins

Model: Layout1 ColorTable: gshade.cab DesignScript: Carollo\_Std\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: crollins



EDR-001  
ELECTRIC DISCRETE VALVE RUN OPEN/CLOSE

FE-001  
FLOW METER  
0-\_\_\_ GPM

EDR-003  
ELECTRIC DISCRETE VALVE RUN OPEN/CLOSE

EDR-002  
ELECTRIC DISCRETE VALVE RUN OPEN/CLOSE

FE-002  
FLOW METER  
0-\_\_\_ GPM

**35% DESIGN  
NOT FOR CONSTRUCTION**

DESIGNED	PP
DRAWN	CGR
CHECKED	TFT
DATE	MARCH 2015

PROJECT ENGINEER

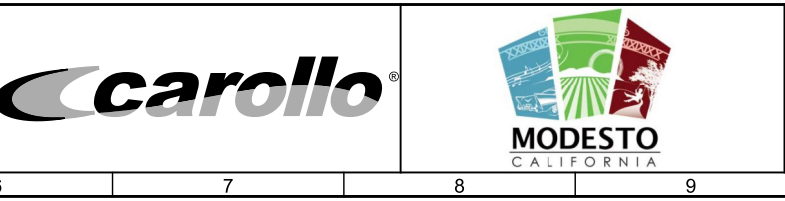
REGISTERED PROFESSIONAL ENGINEER  
PAUL E. POST  
No. 17119  
ELECTRICAL  
STATE OF CALIFORNIA

PROJECT MANAGER

REGISTERED PROFESSIONAL ENGINEER  
TIMOTHY F. TAYLOR  
No. 44975  
CIVIL  
STATE OF CALIFORNIA

PRINCIPAL

REGISTERED PROFESSIONAL ENGINEER  
MICHAEL JAMES BRITTON  
No. 27729  
CIVIL  
STATE OF CALIFORNIA



CITY OF MODESTO

RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION

INSTRUMENTATION

**RTPS P&ID  
FLOW METERS 1 AND 2**

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

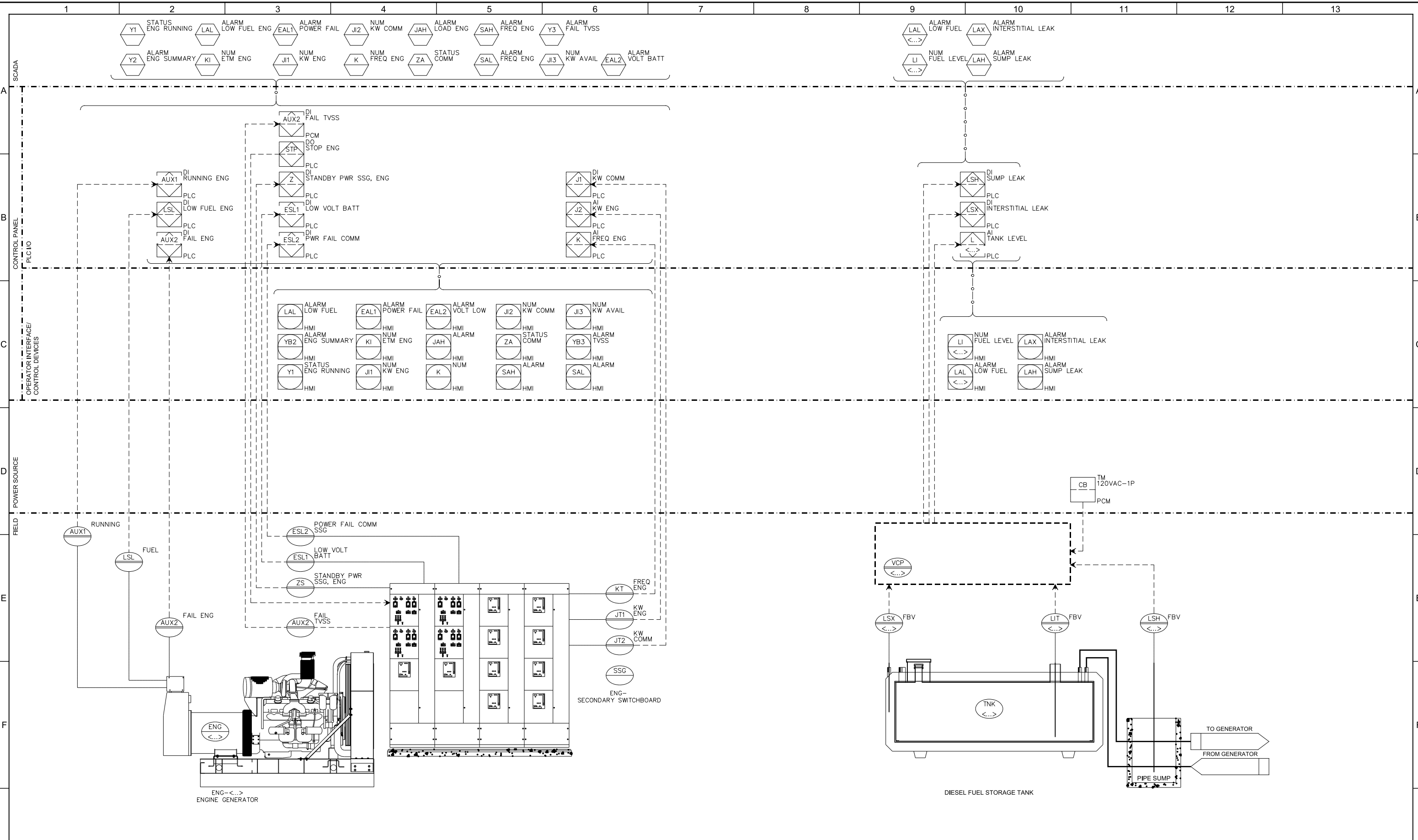
JOB NO. 9551A.00  
DRAWING NO. 01N04  
SHEET NO. OF XX

Plot Date: 27-FEB-2015 4:50:46 PM

User: CRollins

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Std\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: crollins

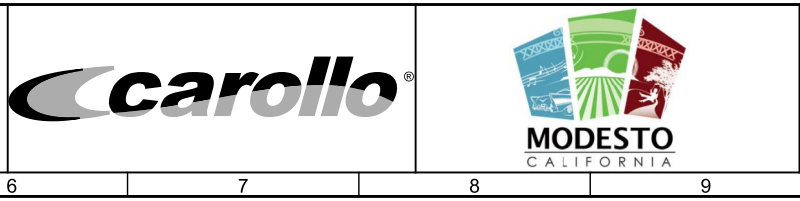


<b>35% DESIGN NOT FOR CONSTRUCTION</b>			
DESIGNED	PP		
DRAWN	CGR		
CHECKED	TFT		
DATE	MARCH 2015		
REV	DATE	BY	DESCRIPTION
1			

PROJECT ENGINEER: PAUL E. POST, REGISTERED PROFESSIONAL ENGINEER, No. 17119, ELECTRICAL, STATE OF CALIFORNIA

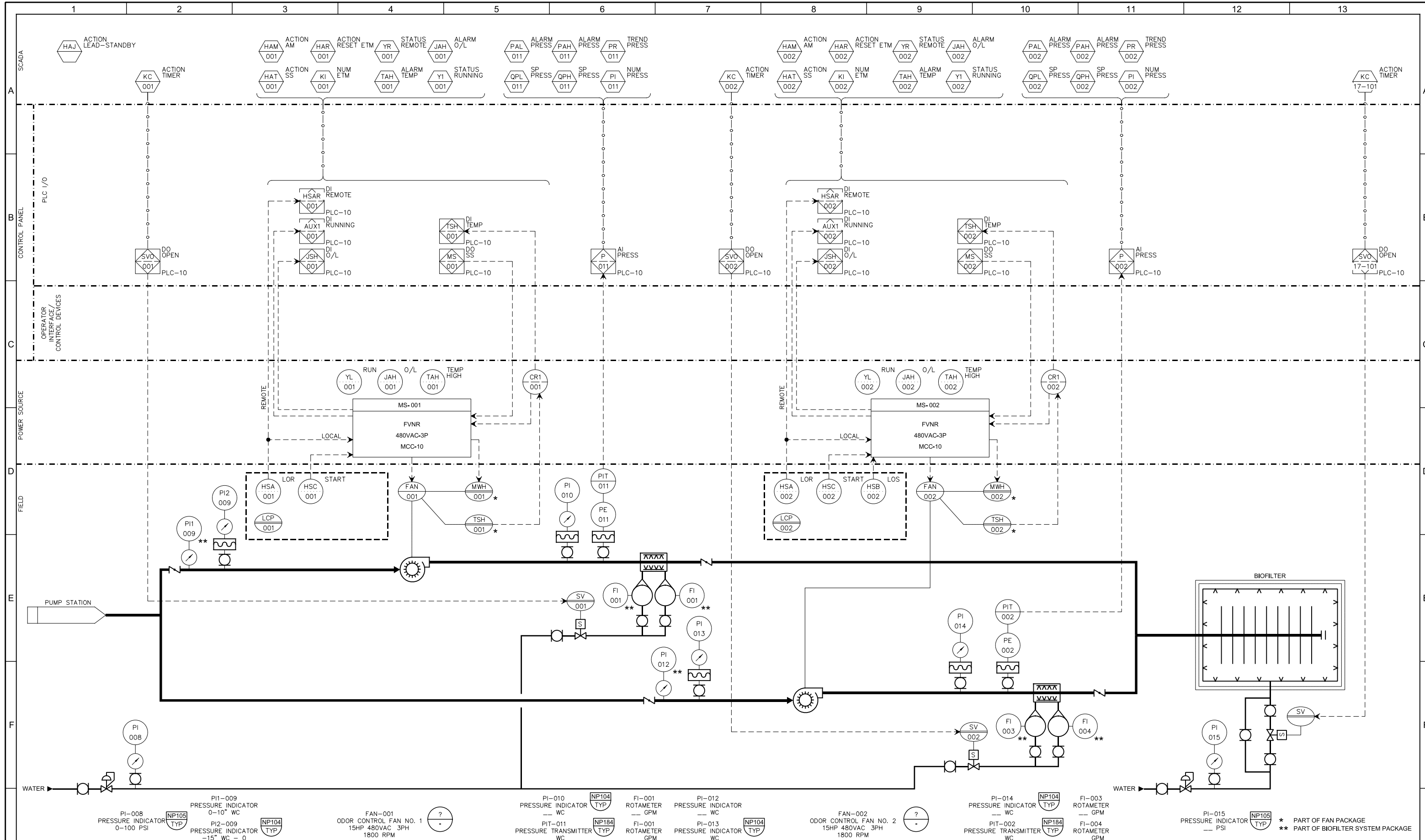
PROJECT MANAGER: TIMOTHY F. TAYLOR, REGISTERED PROFESSIONAL ENGINEER, No. 44975, CIVIL, STATE OF CALIFORNIA

PRINCIPAL: MICHAEL JAMES BRITTON, REGISTERED PROFESSIONAL ENGINEER, No. 27729, CIVIL, STATE OF CALIFORNIA



CITY OF MODESTO  
RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
INSTRUMENTATION  
RTPS P&ID  
GENERATOR AND FUEL TANK

VERIFY SCALES	JOB NO. 9551A.00
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. <b>01N05</b>
0  1"	SHEET NO. OF XX
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	



PI-008 PRESSURE INDICATOR 0-100 PSI  
 NP105 TYP

PI-009 PRESSURE INDICATOR 0-10" WC  
 NP105 TYP

PI-010 PRESSURE INDICATOR -- WC  
 NP104 TYP

PI-011 PRESSURE INDICATOR -15" WC - 0  
 NP104 TYP

FAN-001 ODOR CONTROL FAN NO. 1  
 15HP 480VAC 3PH 1800 RPM

PI-010 PRESSURE INDICATOR -- WC  
 NP104 TYP

PI-011 PRESSURE TRANSMITTER -- WC  
 NP184 TYP

PI-012 PRESSURE INDICATOR -- WC  
 NP104 TYP

PI-013 PRESSURE INDICATOR -- WC  
 NP104 TYP

FI-001 ROTAMETER -- GPM

FI-002 ROTAMETER -- GPM

FAN-002 ODOR CONTROL FAN NO. 2  
 15HP 480VAC 3PH 1800 RPM

PI-014 PRESSURE INDICATOR -- WC  
 NP104 TYP

PI-015 PRESSURE INDICATOR -- PSI  
 NP105 TYP

FI-003 ROTAMETER -- GPM

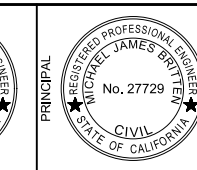
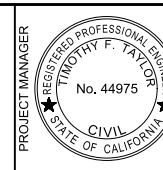
FI-004 ROTAMETER -- GPM

\* PART OF FAN PACKAGE  
 \*\* PART OF BIOFILTER SYSTEM PACKAGE

LAST SAVED BY: collins

**35% DESIGN  
 NOT FOR CONSTRUCTION**

DESIGNED PP  
 DRAWN CGR  
 CHECKED TFT  
 DATE MARCH 2015



CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 INSTRUMENTATION  
 RTPS P&ID  
 PRELIMINARY TREATMENT ODOR CONTROL

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

JOB NO. 9551A.00  
 DRAWING NO. 01N06  
 SHEET NO. 1584 OF XX

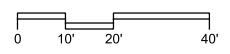
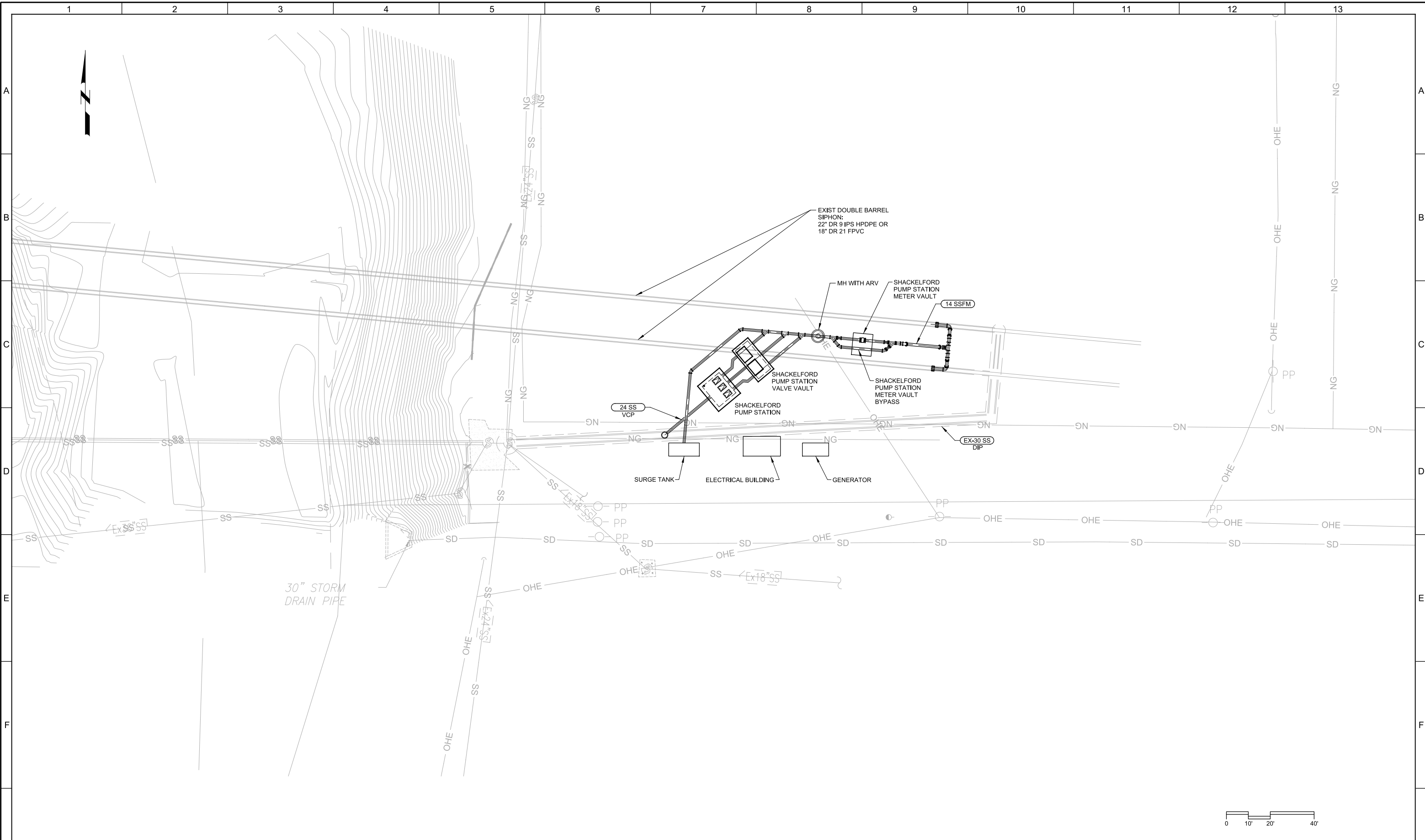
Plot Date: 17-MAR-2015 1:01:38 PM

User: bhawes

Plot Scale: 2:1

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0805.pen

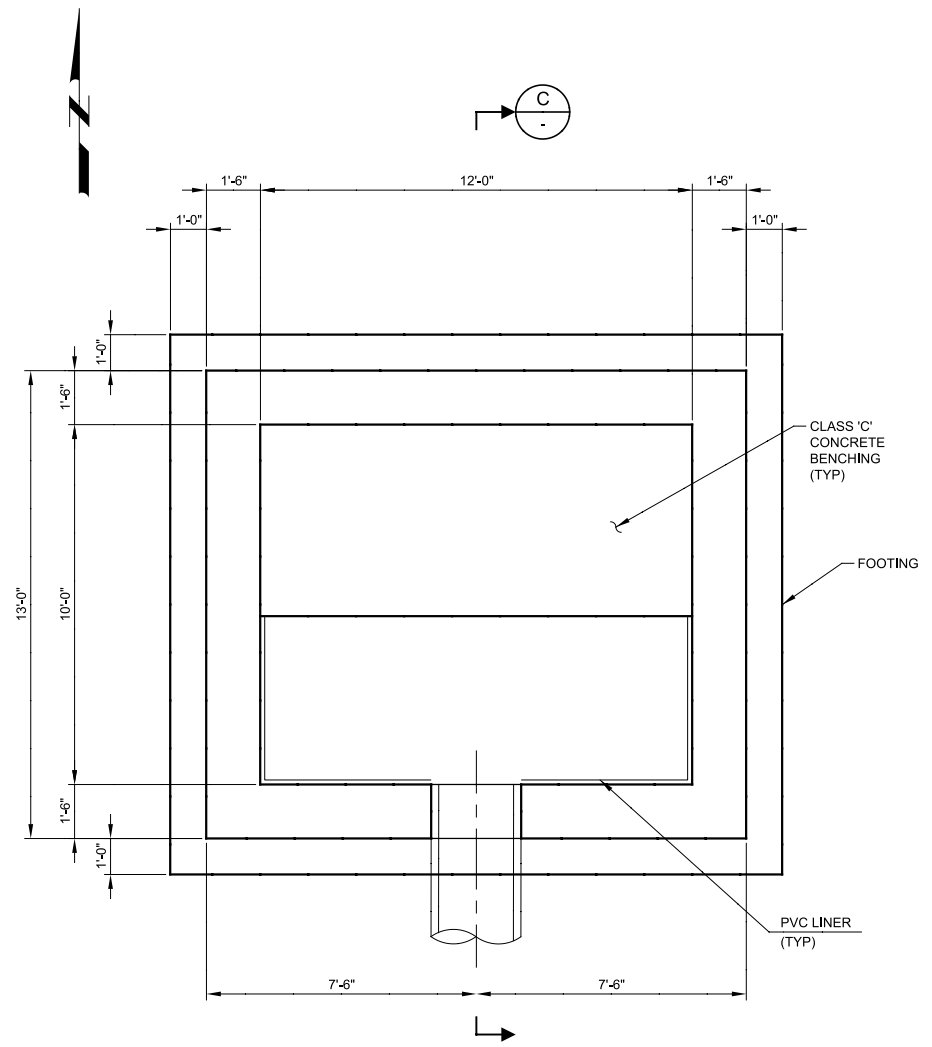
LAST SAVED BY: typh



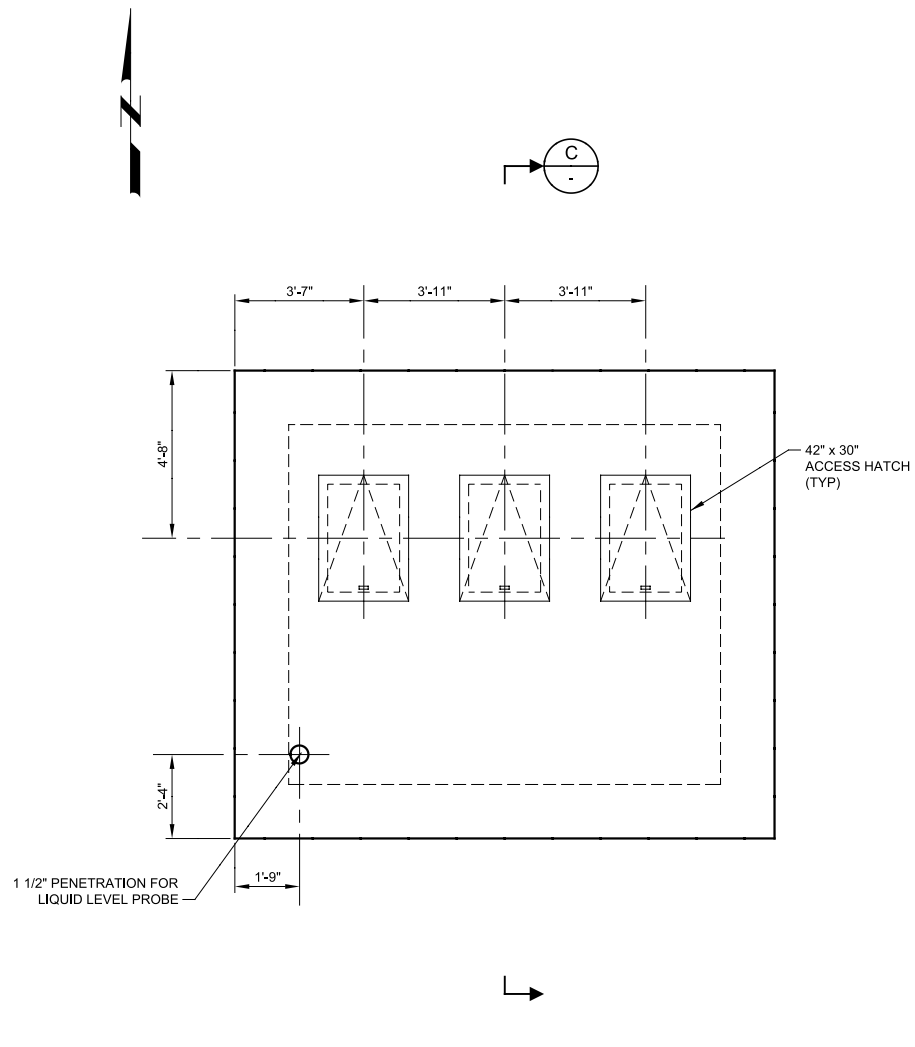
<b>35% DESIGN NOT FOR CONSTRUCTION</b>			DESIGNED RH						CITY OF MODESTO			VERIFY SCALES	JOB NO. 9551A.00			
			DRAWN BH						RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION			CIVIL			BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. <b>02C01</b>
			CHECKED TFT						SHACKELFORD PUMP STATION SITE PLAN			SHACKELFORD PUMP STATION SITE PLAN			0  1"	SHEET NO. XX OF XX
REV	DATE	BY	DESCRIPTION	DATE MARCH 2015												
1																

Plot Date: 26-FEB-2015 3:06:56 PM  
 User: ELanzara  
 Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1  
 LAST SAVED BY: ELanzara

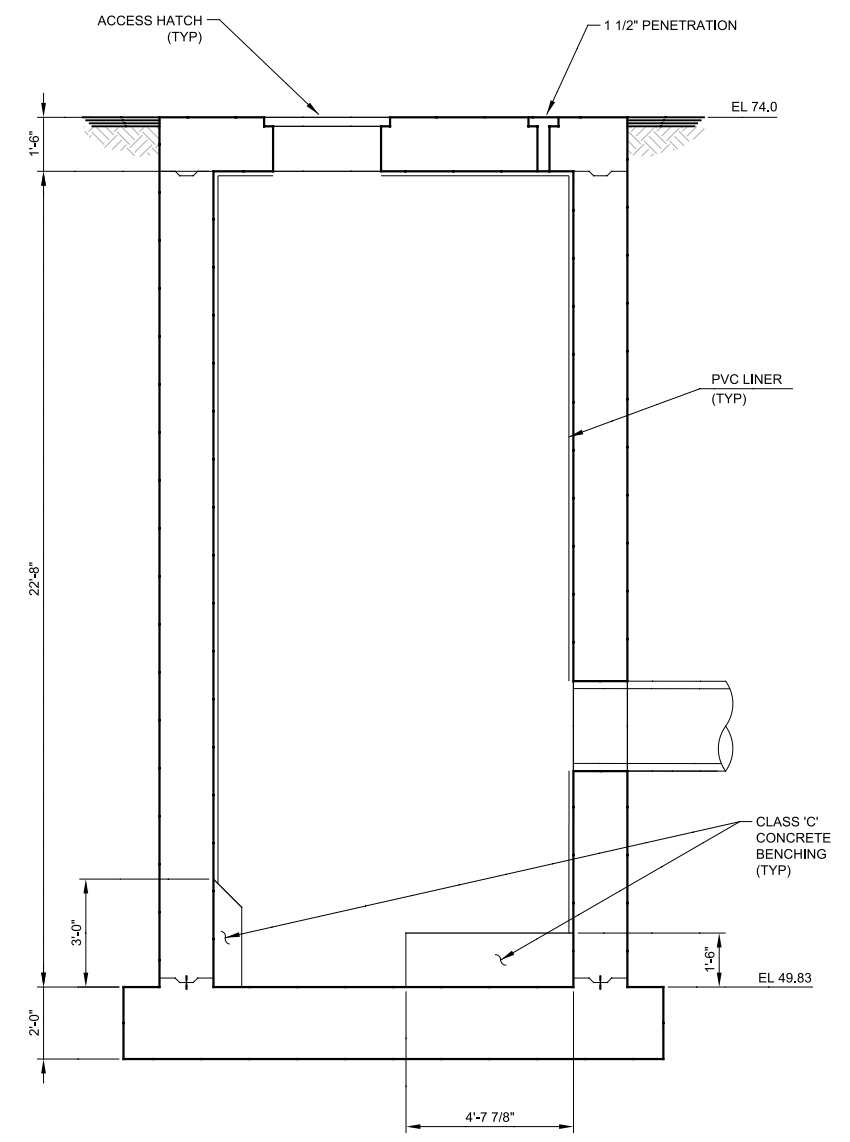
- GENERAL NOTES:**
- SEE MECHANICAL DRAWINGS FOR LOCATION OF EQUIPMENT ANCHORS, PIPES AND PIPE SUPPORTS.
  - DESIGN LIVE LOAD = 150 PSF.



**A BOTTOM PLAN**  
 SCALE: 3/8" = 1'-0"  
 FILE: 9551A00S110



**B TOP PLAN**  
 SCALE: 3/8" = 1'-0"  
 FILE: 9551A00S313



**C SECTION**  
 SCALE: 3/8" = 1'-0"  
 FILE: 9551A00S310

REV	DATE	BY	DESCRIPTION
1			
2			
3			

**35% DESIGN  
 NOT FOR CONSTRUCTION**

DESIGNED  
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 DRAWN  
 EL  
 CHECKED  
 TFT  
 DATE  
 MARCH 2015



CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 STRUCTURAL  
**SHACKELFORD PS  
 PLANS AND SECTION**

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

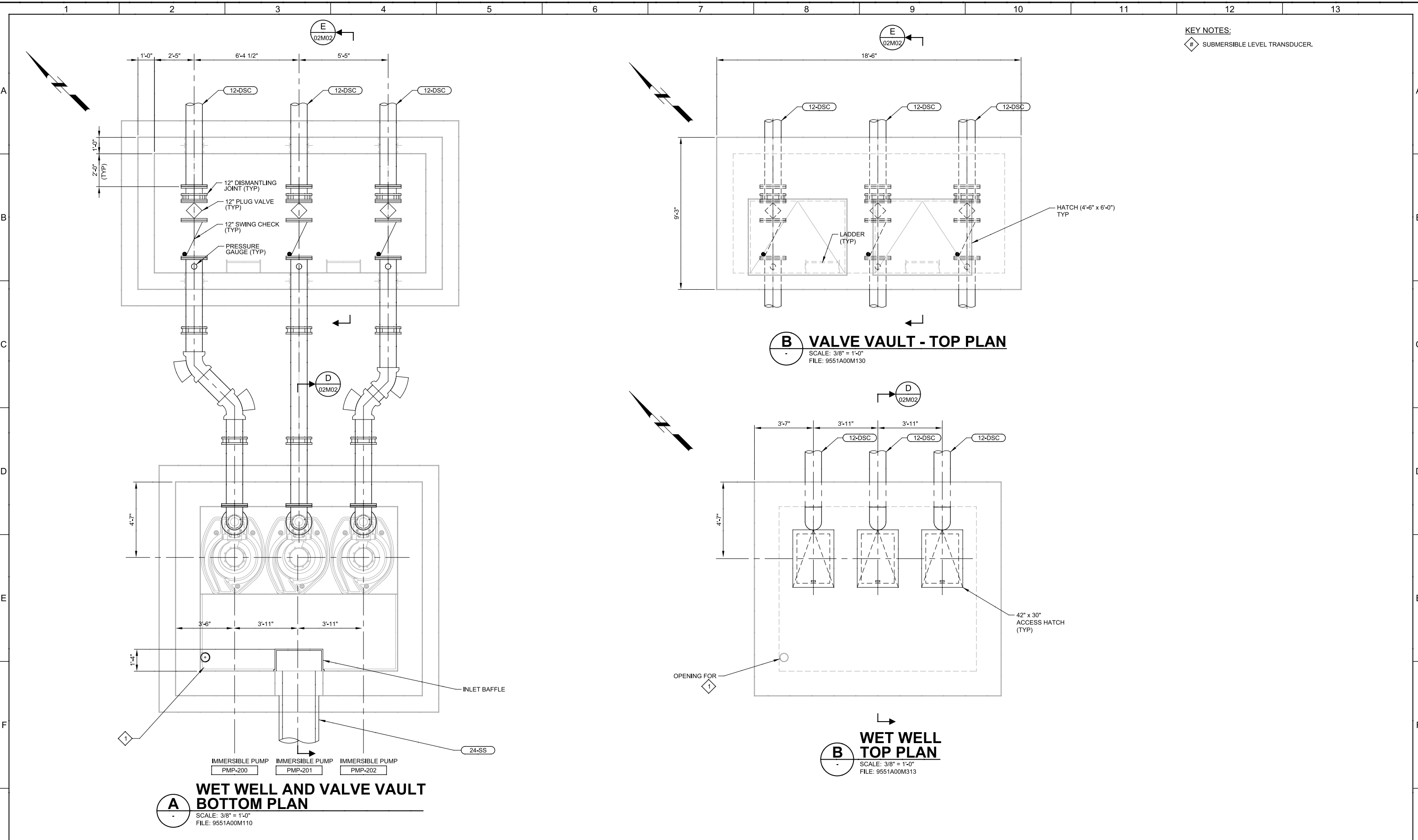
JOB NO.  
 9551A.00  
 DRAWING NO.  
**02S01**  
 SHEET NO.  
 OF XX

Plot Date: 27-FEB-2015 9:07:56 AM

User: MRoper

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Std\_Pen\_v0805.pen PlotScale: 2:1

LAST SAVED BY: Elanzara



**A WET WELL AND VALVE VAULT BOTTOM PLAN**  
 SCALE: 3/8" = 1'-0"  
 FILE: 9551A00M110

**B VALVE VAULT - TOP PLAN**  
 SCALE: 3/8" = 1'-0"  
 FILE: 9551A00M130

**B WET WELL TOP PLAN**  
 SCALE: 3/8" = 1'-0"  
 FILE: 9551A00M313

KEY NOTES:  
 # SUBMERSIBLE LEVEL TRANSDUCER.

<b>35% DESIGN NOT FOR CONSTRUCTION</b>			
DESIGNED	JI		
DRAWN	EL		
CHECKED	TFT		
DATE	MARCH 2015		
REV	DATE	BY	DESCRIPTION

PROJECT ENGINEER:

PROJECT MANAGER:

PRINCIPAL:



CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 MECHANICAL  
 SHACKELFORD WET WELL AND VALVE VAULT  
 PLANS

VERIFY SCALES	JOB NO. 9551A.00
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. <b>02M01</b>
0  1'	SHEET NO. OF XX
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

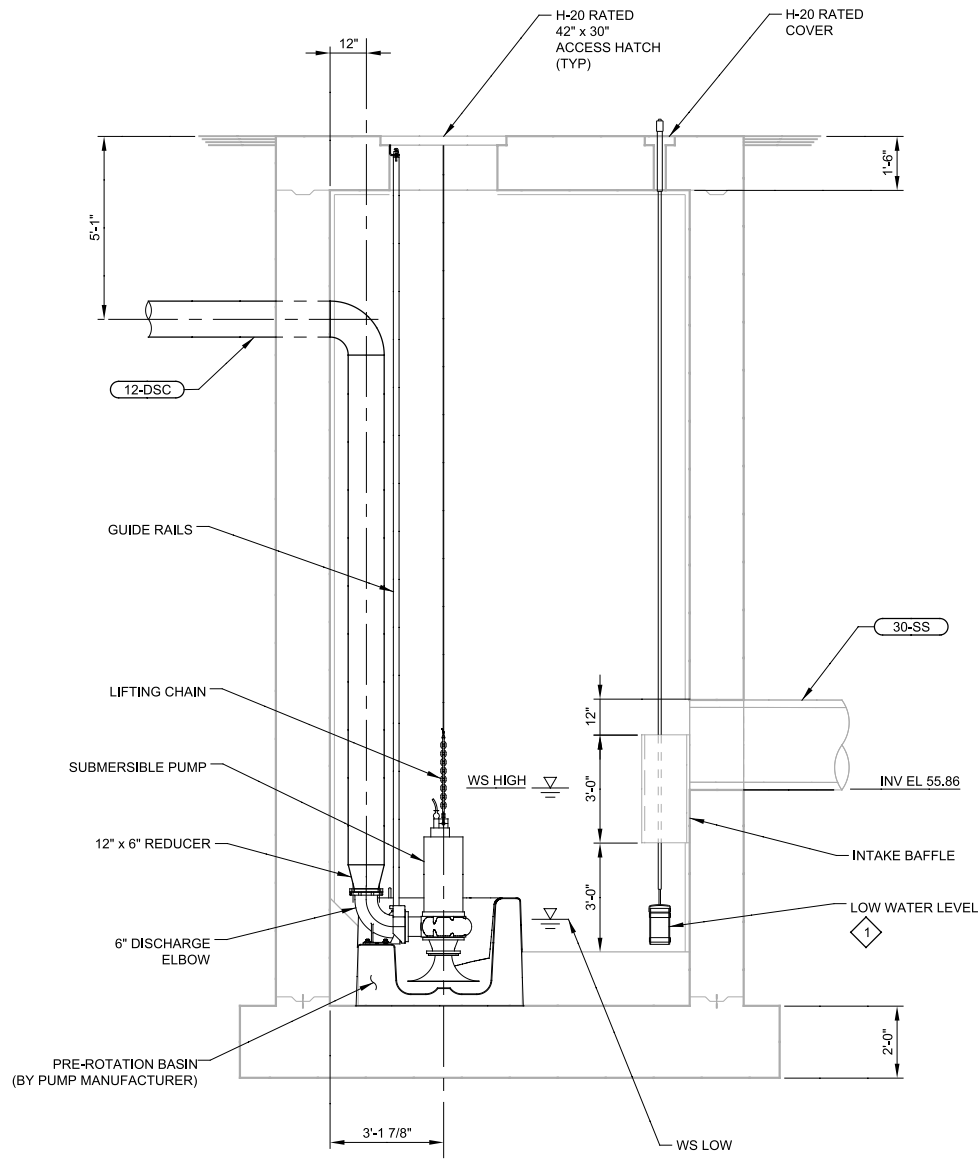
Plot Date: 27-FEB-2015 3:52:42 PM

User: MRoper

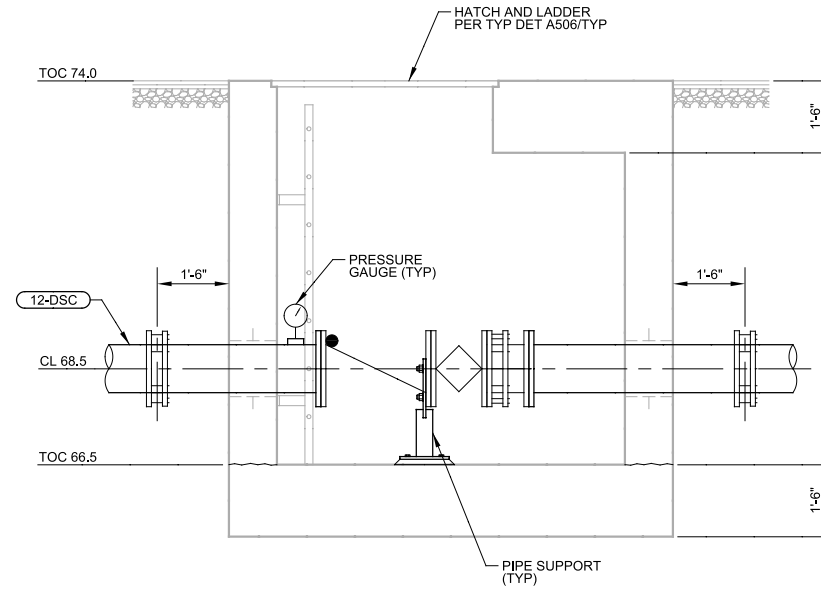
PlotScale: 2:1

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0805.pen PlotScale: 2:1

LAST SAVED BY: Elanzara



**D SECTION**  
 02M01 SCALE: 3/8" = 1'-0"  
 FILE: 9551A00M310

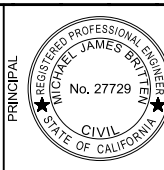


**E SECTION**  
 02M01 SCALE: 1/2" = 1'-0"  
 FILE: 9551A00M330

REV	DATE	BY	DESCRIPTION
1			
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**35% DESIGN  
 NOT FOR CONSTRUCTION**

DESIGNED  
 JI  
 DRAWN  
 MWR  
 CHECKED  
 TFT  
 DATE  
 MARCH 2015



CITY OF MODESTO  
 RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
 MECHANICAL  
 SHACKELFORD WET WELL AND VALVE VAULT  
 SECTIONS

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

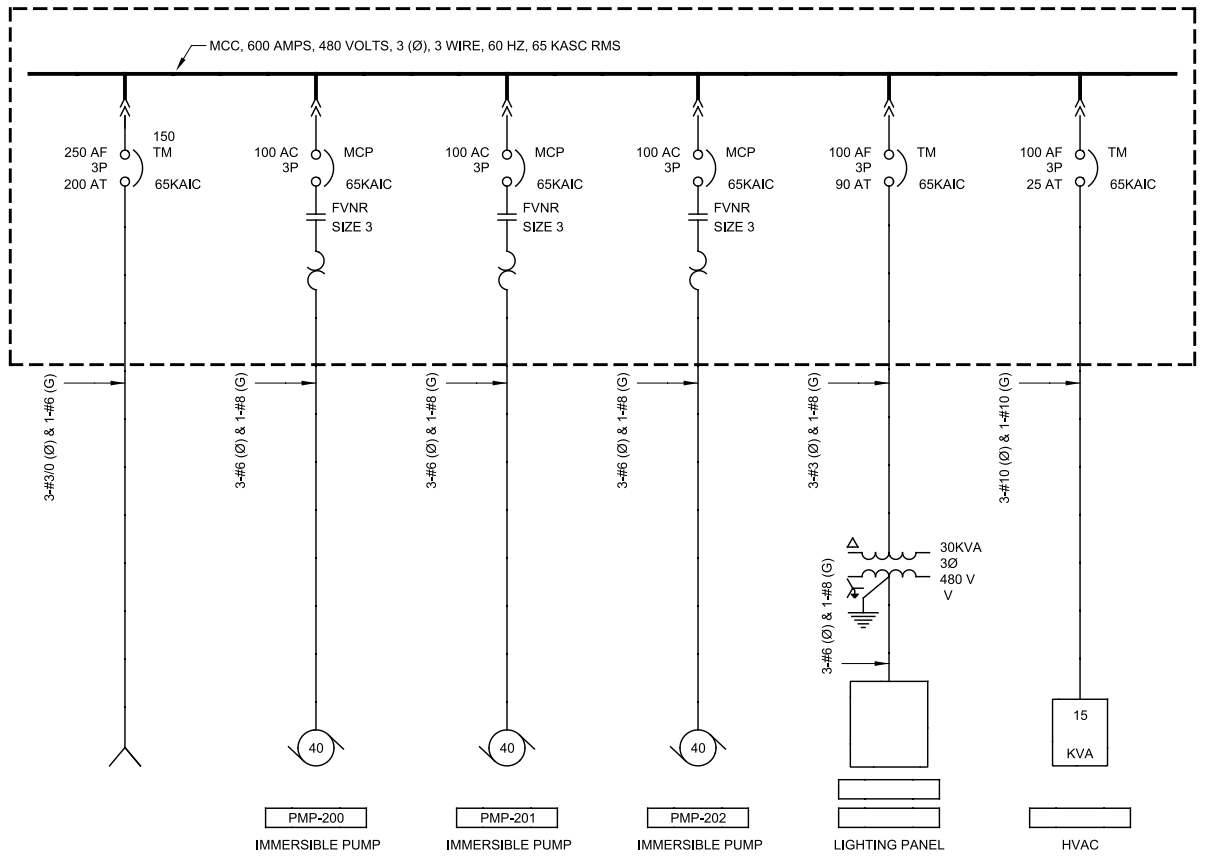
JOB NO.  
 9551A.00  
 DRAWING NO.  
**02M02**  
 SHEET NO.  
 OF XX

Plot Date: 27-FEB-2015 4:47:57 PM

User: CRollins

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Std\_Pen\_v0905.pen PlotScale: 2:1

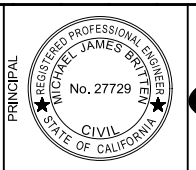
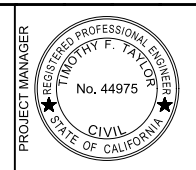
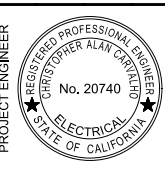
LAST SAVED BY: crollins



REV	DATE	BY	DESCRIPTION

**35% DESIGN  
NOT FOR CONSTRUCTION**

DESIGNED  
PLL  
DRAWN  
CGR  
CHECKED  
TFT  
DATE  
MARCH 2015



CITY OF MODESTO  
RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
ELECTRICAL  
SHACKELFORD ONE-LINE

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

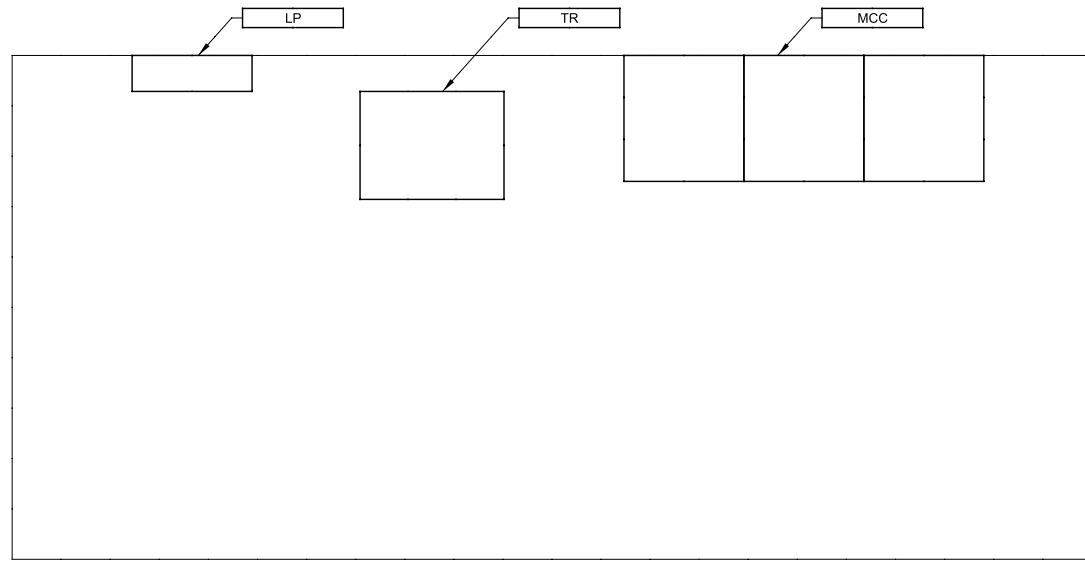
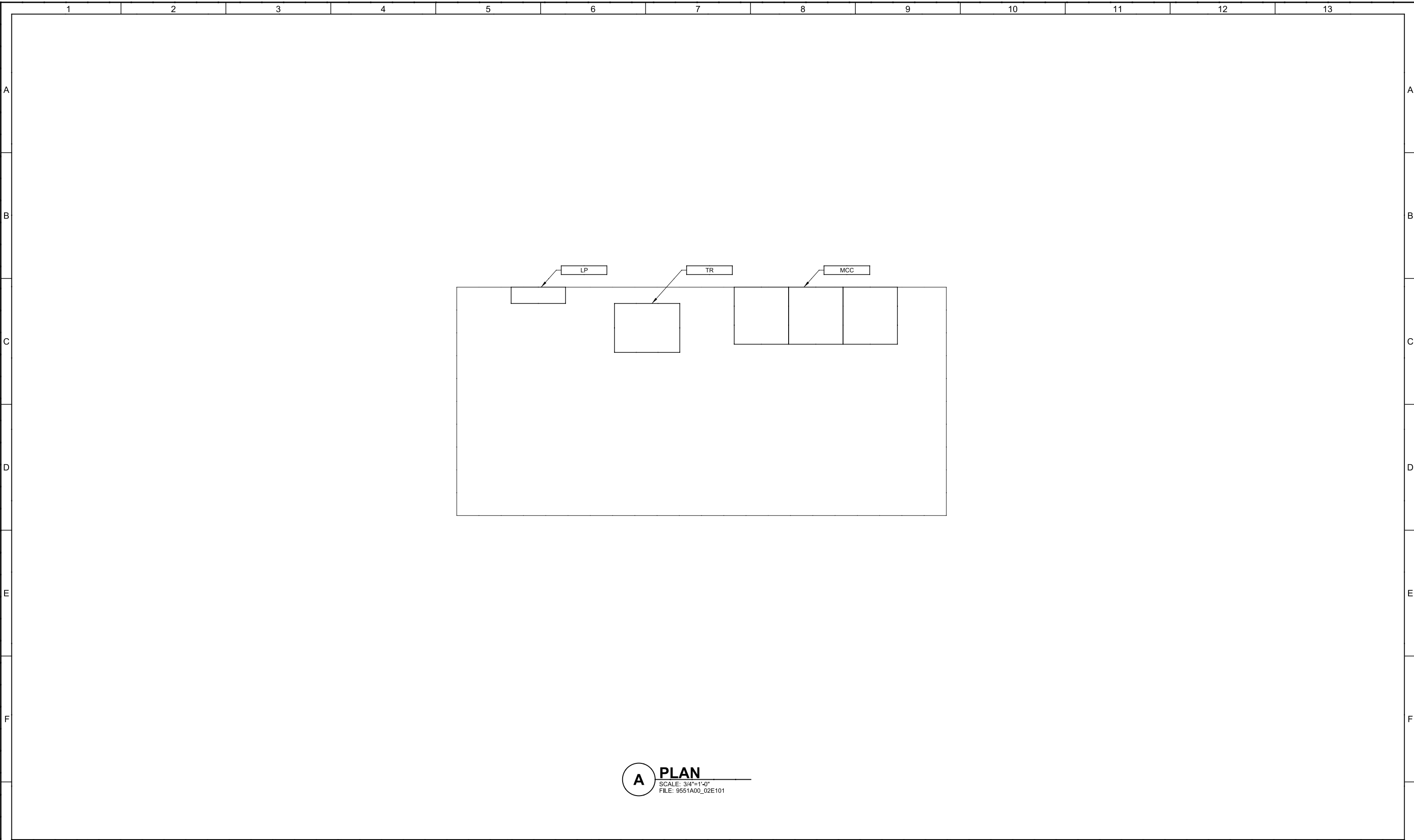
JOB NO.  
9551A.00  
DRAWING NO.  
**02E01**  
SHEET NO.  
OF XX

Plot Date: 27-FEB-2015 4:59:38 PM

User: CRollins

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Std\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: crollins



**A PLAN**  
 SCALE: 3/4"=1'-0"  
 FILE: 9551A00\_02E101

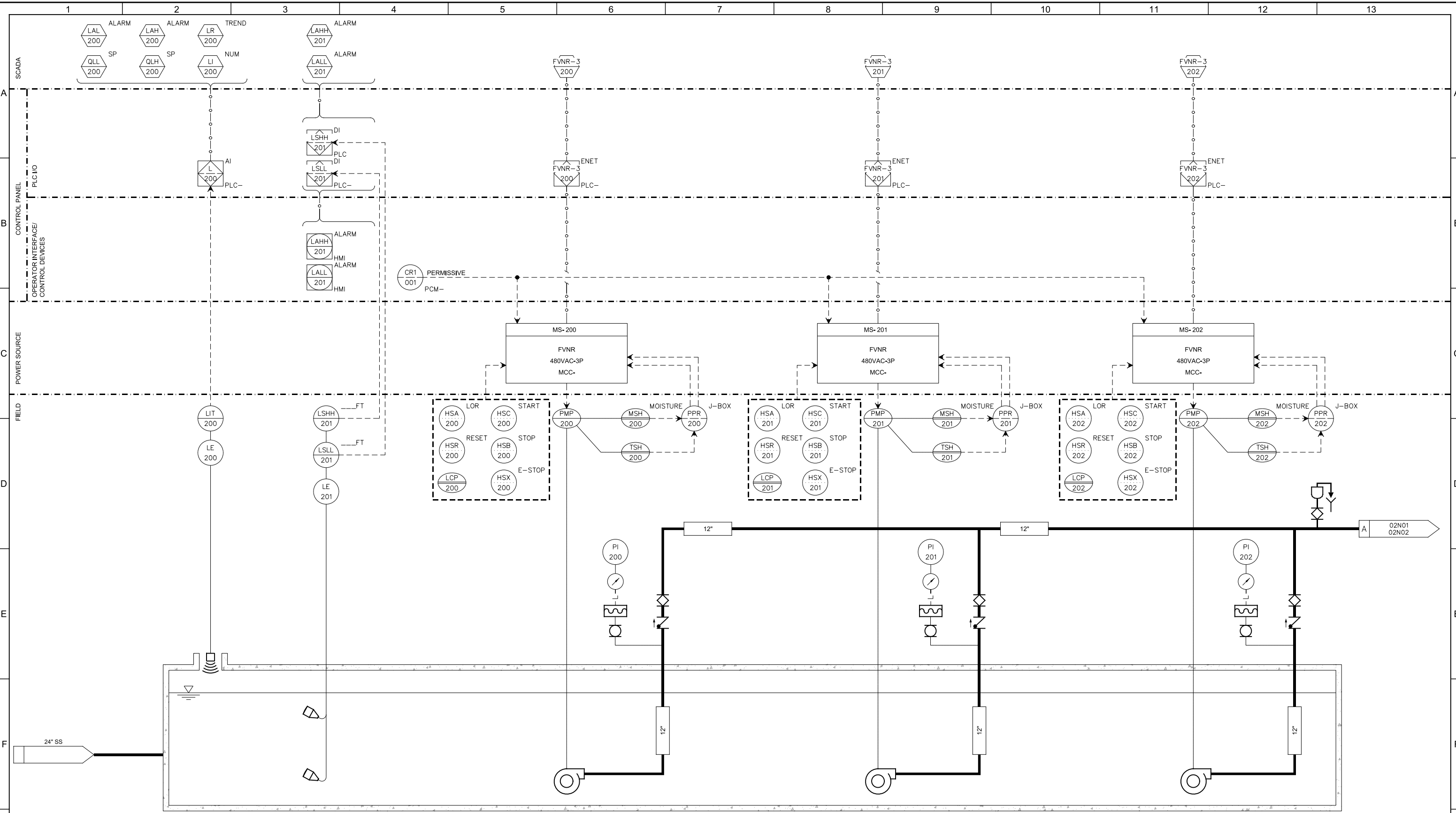
<b>35% DESIGN NOT FOR CONSTRUCTION</b>			DESIGNED PLL						CITY OF MODESTO				VERIFY SCALES	JOB NO. 9551A.00
			DRAWN CGR						RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION				BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. <b>02E02</b>
REV	DATE	BY	DESCRIPTION	PROJECT ENGINEER					ELECTRICAL				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. OF XX
1									SHACKELFORD PS ELECTRICAL BUILDING					

Plot Date: 27-FEB-2015 4:51:11 PM

User: CRollins

Model: Layout1 ColorTable: gshade.cab DesignScript: Carollo\_Std\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: crollins



LE-200 2 WIRE ULTRASONIC 0-\_\_\_FT NL183 TYP

LE-201 LEVEL FLOATS NL107 TYP NL108 TYP

PMP-200 IMMERSIBLE PUMP ?

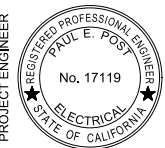





PI-200 PRESSURE INDICATOR \_\_\_ HG - \_\_\_ PSI NP104 TYP

PMP-201 IMMERSIBLE PUMP ?

PI-201 PRESSURE INDICATOR \_\_\_ HG - \_\_\_ PSI NP104 TYP

PMP-202 IMMERSIBLE PUMP ?

PI-202 PRESSURE INDICATOR \_\_\_ HG - \_\_\_ PSI NP104 TYP

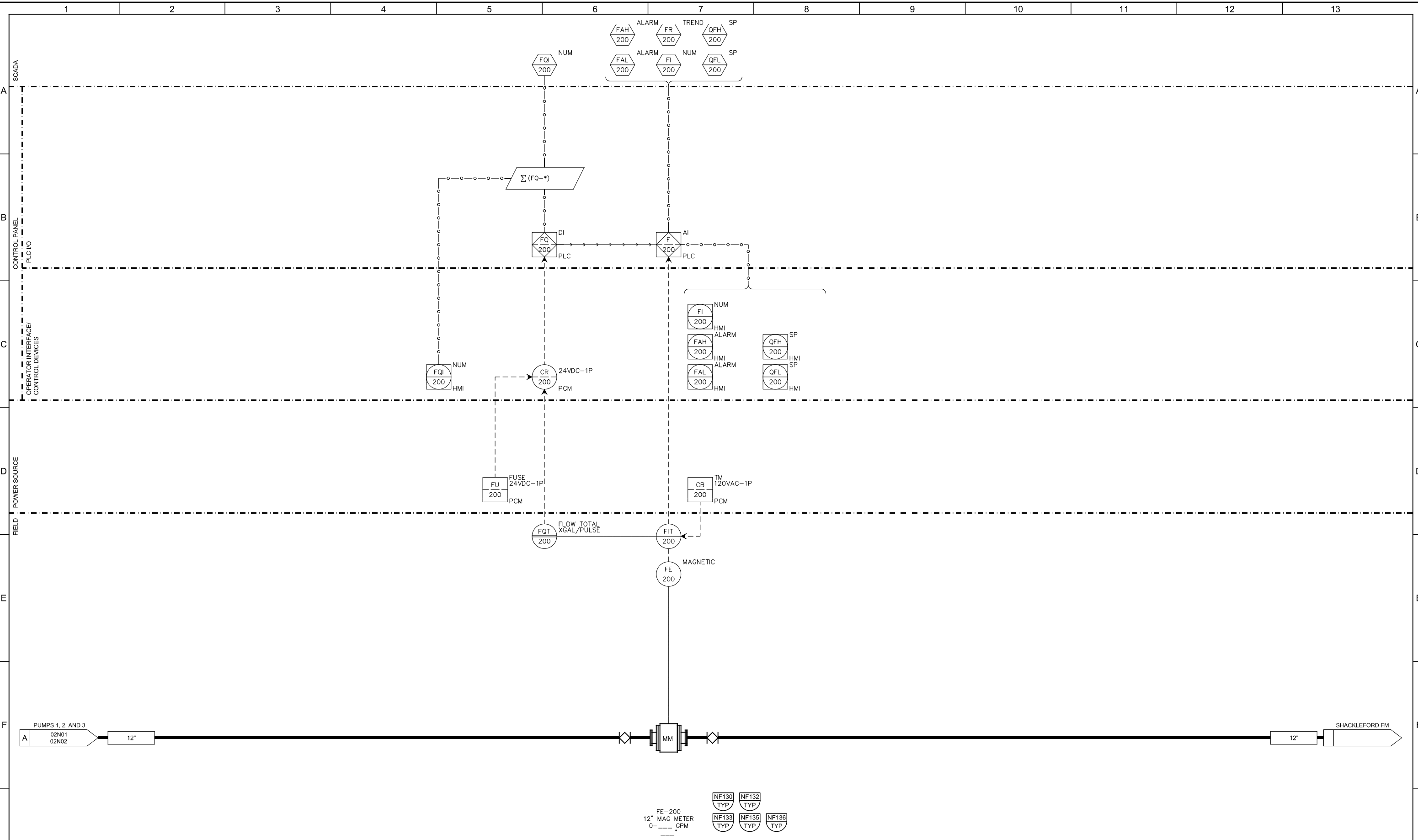
<b>35% DESIGN NOT FOR CONSTRUCTION</b>		DESIGNED PP						CITY OF MODESTO RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION INSTRUMENTATION <b>SHACKLEFORD PS P&amp;ID</b>		VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0  1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 9551A.00 DRAWING NO. <b>02N01</b> SHEET NO. OF XX
		DRAWN CGR						PROJECT ENGINEER	PROJECT MANAGER		
REV	DATE	BY	DESCRIPTION	DATE MARCH 2015							

Plot Date: 27-FEB-2015 4:51:23 PM

User: CRollins

Model: Layout1 ColorTable: gshade.cab DesignScript: Carollo\_Std\_Pen\_v0905.pen PlotScale: 2:1

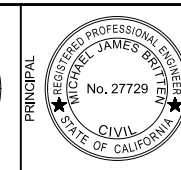
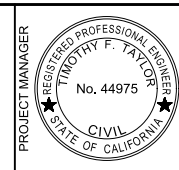
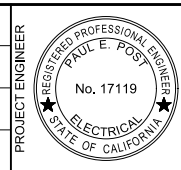
LAST SAVED BY: crollins



REV	DATE	BY	DESCRIPTION
1			
2			
3			

**35% DESIGN  
NOT FOR CONSTRUCTION**

DESIGNED  
PP  
DRAWN  
CGR  
CHECKED  
TFT  
DATE  
MARCH 2015



CITY OF MODESTO  
RIVER TRUNK BEARD BROOK SIPHON CSL DIVERSION  
INSTRUMENTATION  
SHACKLEFORD PS P&ID  
MAGMETER

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

JOB NO.  
9551A.00  
DRAWING NO.  
**02N02**  
SHEET NO.  
OF XX