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25	S1	GENERAL PLAN No. 1
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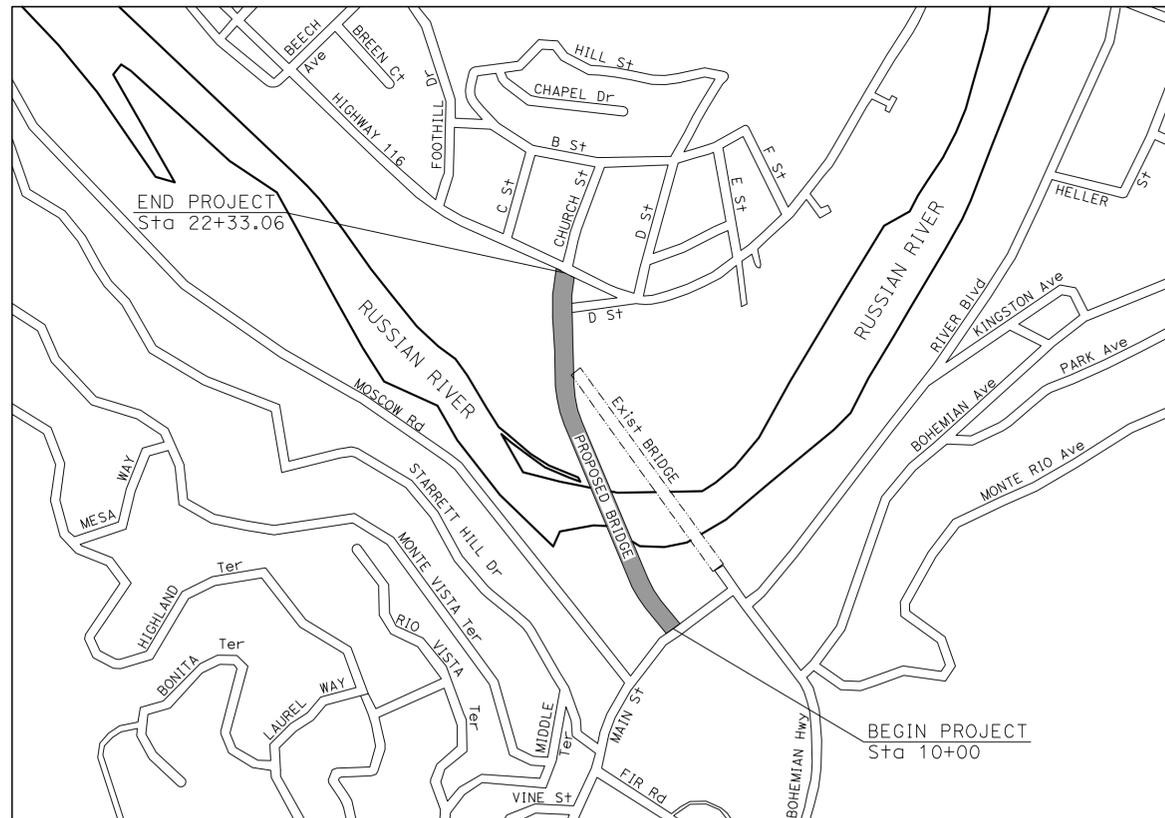
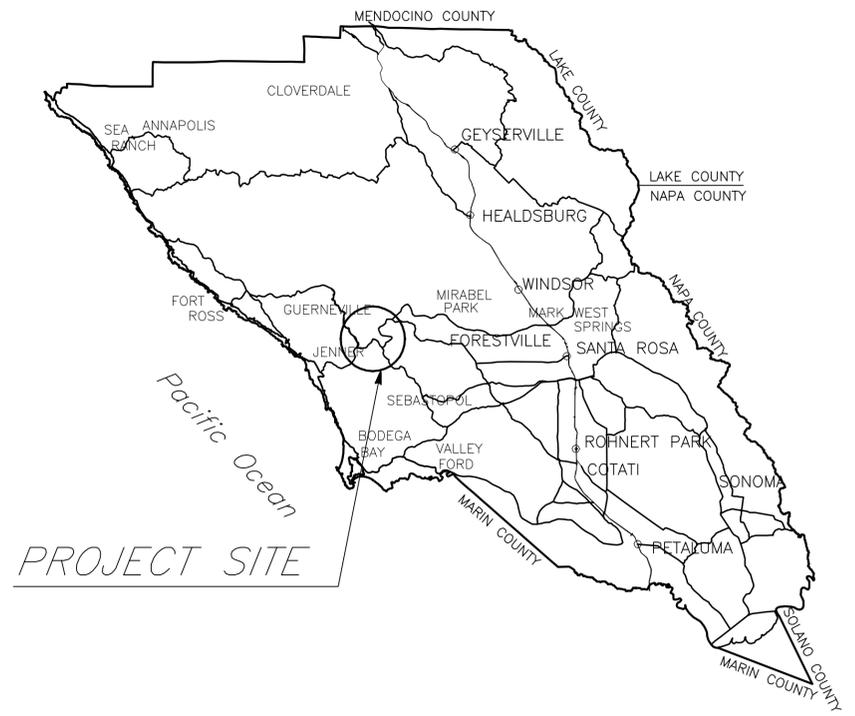
COUNTY OF SONOMA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS

PROJECT PLANS FOR CONSTRUCTION OF
**BOHEMIAN HIGHWAY BRIDGE OVER THE
RUSSIAN RIVER REPLACEMENT PROJECT**

(EXISTING COUNTY BRIDGE No. 20C-0018)
(NEW COUNTY BRIDGE No. XXX-XXXX)

FEDERAL PROJECT No. STPLZ-5920(135)

COUNTY ROAD No. 6002A
FROM P.M. 20.12 TO P.M. 30.00
NET LENGTH
0.23 MILES



VACINITY MAP
NO SCALE



VERTICAL DATUM:

NAVD 88

BASIS OF BEARINGS:

CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE II (BASED ON CALIFORNIA SURVEYING AND DRAFTING VRN, BASED ON CSRC CORS POSITIONS, EPOCH 2011.00). DISTANCE AND STATIONING ARE GROUND DISTANCES. MULTIPLY BY 0.99996312 TO OBTAIN GRID DISTANCES.

RIGHT OF WAY DETERMINATION:

FOR ROAD RIGHT OF WAY DETERMINATION, SEE RECORD OF SURVEY RECORDED IN BOOK 794 OF MAPS AT PAGES 21-22.

STANDARDS:

TO BE SUPPLEMENTED BY CALTRANS 2018 STANDARD PLANS AND CALTRANS 2018 STANDARD SPECIFICATIONS.

NOTE:

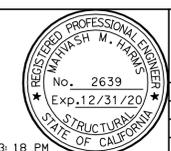
THE CONTRACTOR SHALL POSSESS CLASS A LICENSE AND HAZARDOUS SUBSTANCE REMOVAL CERTIFICATION AT THE TIME OF AWARD.

APPROVED FOR CONSTRUCTION:

JOHANNES J. HOEVERTSZ, P.E., DIRECTOR DATE
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
R.C.E. 67468

PLAN CHECK SET/ NOT FOR CONSTRUCTION (12/18/20)

DESIGN BY	JDV
DRAWING BY	SMH
CHECKED BY	



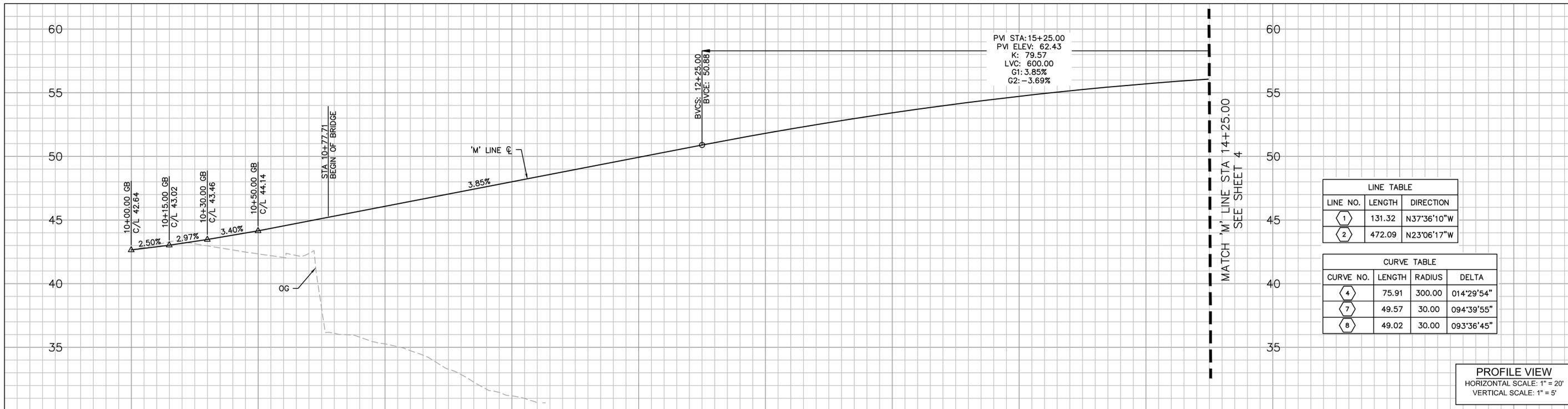
"AS BUILT" INFORMATION TO BE COMPLETED AFTER CONSTRUCTION	
DATE	BY
	APPROVED

CONSTRUCTION COMPLETED:
BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
865 The Alameda
San Jose, California 95128
408-296-5515



COUNTY OF SONOMA
DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
JOHANNES J. HOEVERTSZ, P.E. DIRECTOR

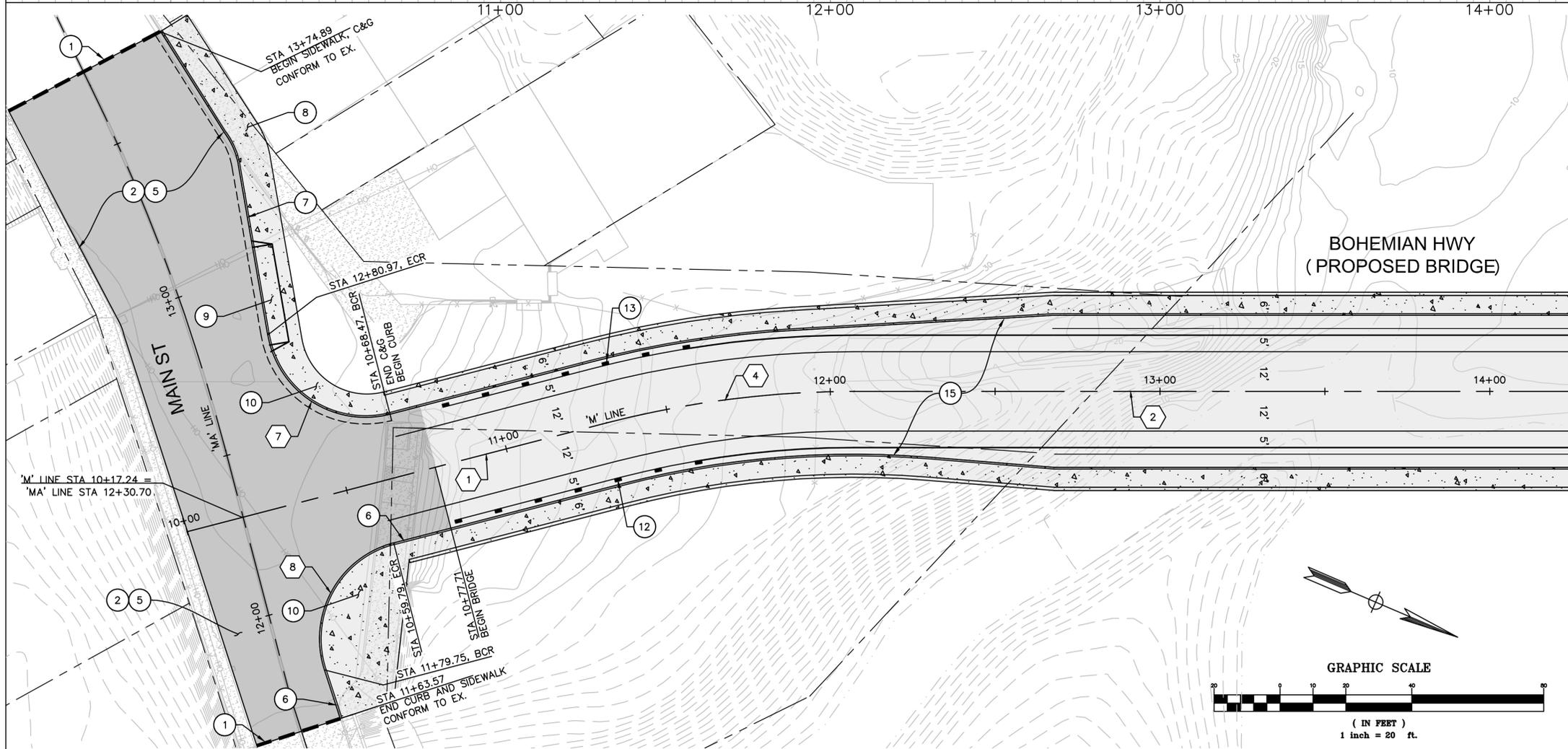
TITLE SHEET		ROAD NUMBER	
BOHEMIAN HIGHWAY BRIDGE OVER THE RUSSIAN RIVER REPLACEMENT PROJECT		BUDGET NUMBER	
		FISCAL YEAR	
SHEET NUMBER	1	T1	
TOTAL SHEETS			



LINE TABLE		
LINE NO.	LENGTH	DIRECTION
1	131.32	N37°36'10"W
2	472.09	N23°06'17"W

CURVE TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
4	75.91	300.00	014°29'54"
7	49.57	30.00	094°39'55"
8	49.02	30.00	093°36'45"

PROFILE VIEW
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 5'

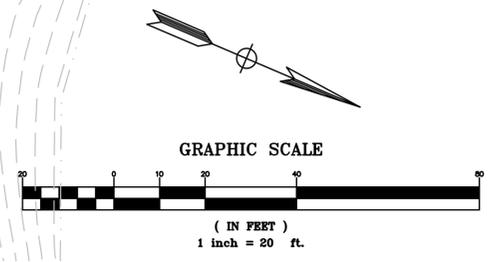


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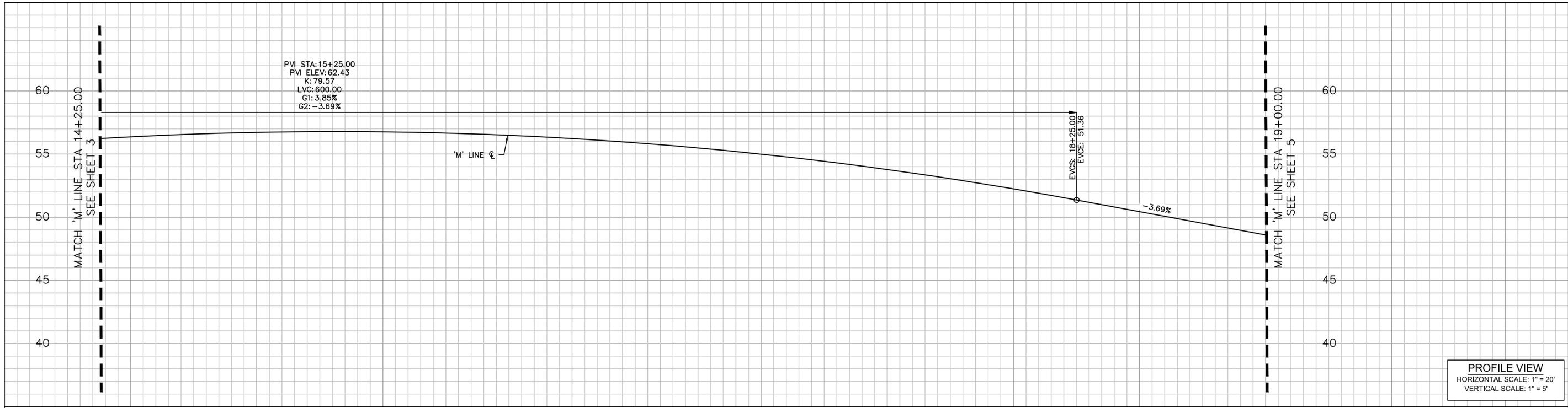
- (P) PROTECT IN PLACE (ITEM)
- (1) SAWCUT
- (2) REMOVE PAVEMENT LIMITS AS SHOWN ON PLAN
- (3) REMOVE CURB LIMITS AS SHOWN ON PLAN
- (4) REMOVE SIDEWALK AS SHOWN ON PLAN
- (5) CONSTRUCT NEW AC PAVEMENT SECTION
- (6) CONSTRUCT CURB (TYPE A1-6) PER COUNTY STD PLAN 220
- (7) CONSTRUCT CURB & GUTTER PER COUNTY STD PLAN 220
- (8) CONSTRUCT 4" THICK SIDEWALK PER COUNTY STD PLAN 220
- (9) CONSTRUCT COMMERCIAL DRIVEWAY PER COUNTY STD PLAN 808
- (10) CONSTRUCT CURB RAMP FROM BCR TO ECR PER CALTRANS STD PLAN A88A (CASE PER PLAN)
- (11) GRIND EXISTING PAVEMENT (0.10' MIN) AND CONSTRUCT AC OVERLAY TO FINISHED GRADE PER PLAN
- (12) CONSTRUCT MIDWEST GUARD RAILING WITH IN-LINE TERMINAL SYSTEM END TREATMENT PER CALTRANS STD PLAN RSP A77Q1, TYPE 12A LAYOUT
- (13) CONSTRUCT MIDWEST GUARD RAILING WITH IN-LINE TERMINAL SYSTEM END TREATMENT PER CALTRANS STD PLAN RSP A77Q4, TYPE 12A LAYOUT
- (14) CONSTRUCT RETAINING WALL
- (15) PROPOSED BRIDGE STRUCTURE

LEGEND:

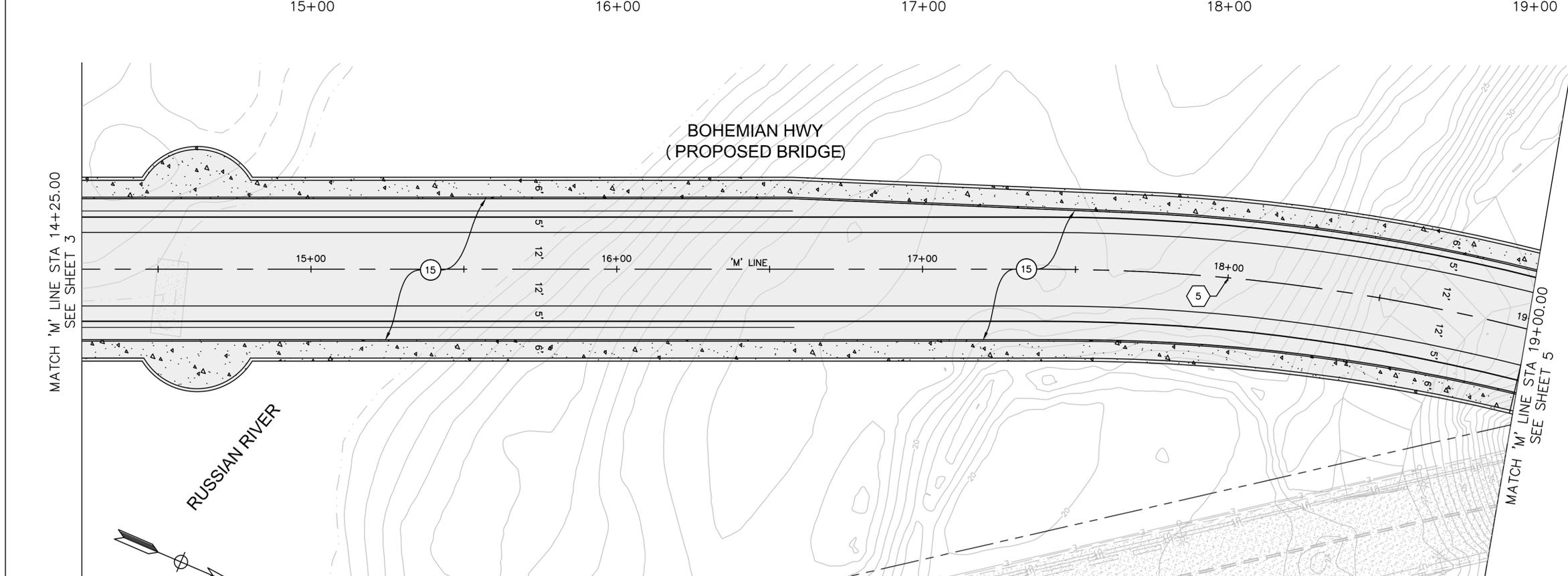
- RIGHT OF WAY LINE
- SAWCUT
- GUARDRAIL
- RETAINING WALL
- AC PAVEMENT IMPROVEMENTS
- CONCRETE PAVEMENT IMPROVEMENTS
- PCC IMPROVEMENTS



DESIGN BY	LS	REGISTERED CIVIL ENGINEER	CONSTRUCTION COMPLETED:	BKF ENGINEERS 4675 MACARTHUR COURT, SUITE 400 NEWPORT BEACH, CA 92660 T: (949) 526-8460	 COUNTY OF SONOMA DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS JOHANNES J. HOEVERTZ, P.E., DIRECTOR	PLAN AND PROFILE	ROAD NUMBER	20C-0018
DRAWING BY	LS	PLANS APPROVAL DATE	RESIDENT ENGINEER AS BUILT DRAWINGS BY:	BIGGS CARDOSA ASSOCIATES INC STRUCTURAL ENGINEERS 565 The Alameda San Jose, California 95126 408-298-8515		BOHEMIAN HIGHWAY OVER THE RUSSIAN RIVER REPLACEMENT PROJECT	BUDGET NUMBER	C11009
CHECKED BY	SA	P: 2016161020_REPLACEMENT OF THE MONTE RIO BRIDGE ENVDWG SHEETS V2 - PLAN & PROFILE.DWG 11:16 PM	DATE	BY		APPROVED	FISCAL YEAR	19-20
							SHEET NUMBER	3
							TOTAL SHEETS	



PROFILE VIEW
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 5'



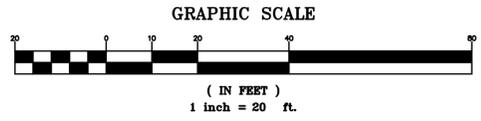
CONSTRUCTION NOTES:

- P PROTECT IN PLACE (ITEM)
- 1 SAWCUT
- 2 REMOVE PAVEMENT LIMITS AS SHOWN ON PLAN
- 3 REMOVE CURB LIMITS AS SHOWN ON PLAN
- 4 REMOVE SIDEWALK AS SHOWN ON PLAN
- 5 CONSTRUCT NEW AC PAVEMENT SECTION
- 6 CONSTRUCT CURB (TYPE A1-6) PER COUNTY STD PLAN 220
- 7 CONSTRUCT CURB & GUTTER PER COUNTY STD PLAN 220
- 8 CONSTRUCT 4" THICK SIDEWALK PER COUNTY STD PLAN 220
- 9 CONSTRUCT COMMERCIAL DRIVEWAY PER COUNTY STD PLAN 808
- 10 CONSTRUCT CURB RAMP FROM BCR TO ECR PER CALTRANS STD PLAN A88A (CASE PER PLAN)
- 11 GRIND EXISTING PAVEMENT (0.10' MIN) AND CONSTRUCT AC OVERLAY TO FINISHED GRADE PER PLAN
- 12 CONSTRUCT MIDWEST GUARD RAILING WITH IN-LINE TERMINAL SYSTEM END TREATMENT PER CALTRANS STD PLAN RSP A77Q1, TYPE 12A LAYOUT
- 13 CONSTRUCT MIDWEST GUARD RAILING WITH IN-LINE TERMINAL SYSTEM END TREATMENT PER CALTRANS STD PLAN RSP A77Q4, TYPE 12A LAYOUT
- 14 CONSTRUCT RETAINING WALL
- 15 PROPOSED BRIDGE STRUCTURE

LEGEND:

- RIGHT OF WAY LINE
- SAWCUT
- GUARDRAIL
- ▲ RETAINING WALL
- AC PAVEMENT IMPROVEMENTS
- CONCRETE PAVEMENT IMPROVEMENTS
- PCC IMPROVEMENTS

CURVE TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
5	313.13	650.00	027°36'06"



DESIGN BY	LS	REGISTERED CIVIL ENGINEER
DRAWING BY	LS	PLANS APPROVAL DATE
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DATE	BY	APPROVED	

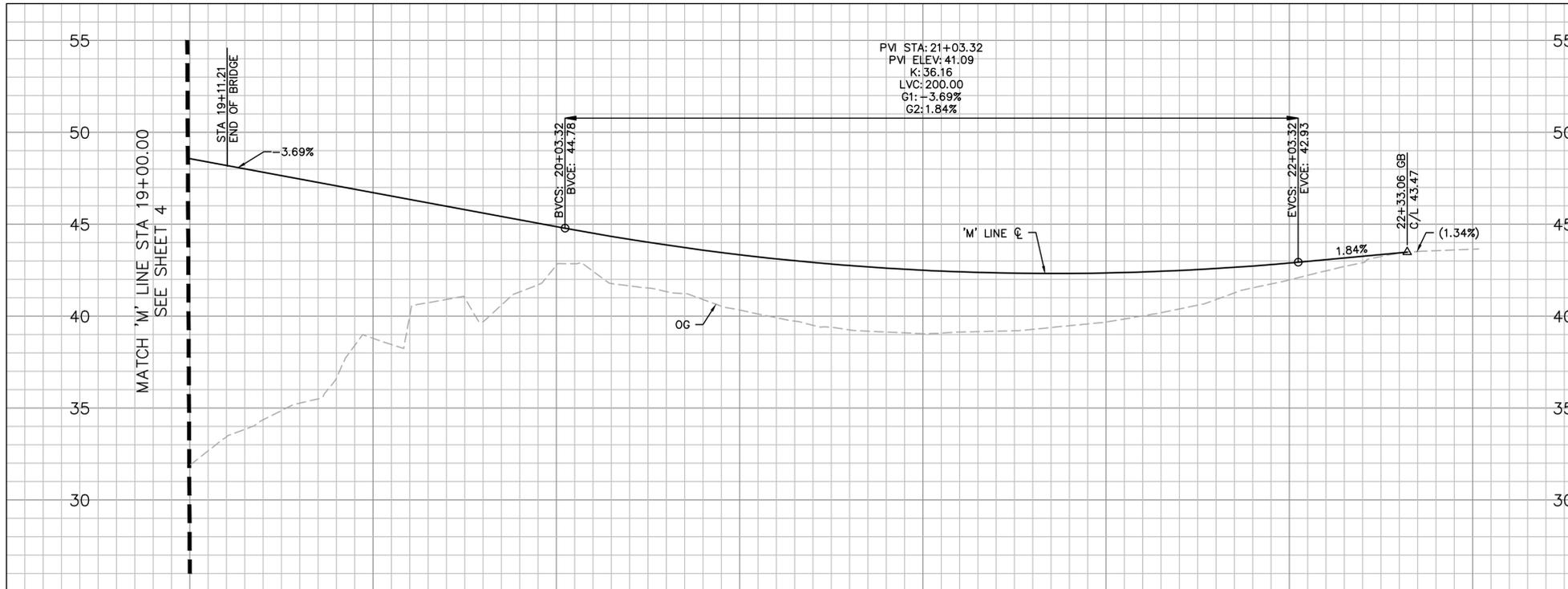
BKF ENGINEERS
 4675 MACARTHUR COURT,
 SUITE 400
 NEWPORT BEACH, CA 92660
 T: (949) 526-8460

BIGGS CARDOSA ASSOCIATES INC
 STRUCTURAL ENGINEERS
 565 The Alameda
 San Jose, California 95126
 408-298-8515



COUNTY OF SONOMA
 DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
 JOHANNES J. HOEVERTSZ, P.E., DIRECTOR

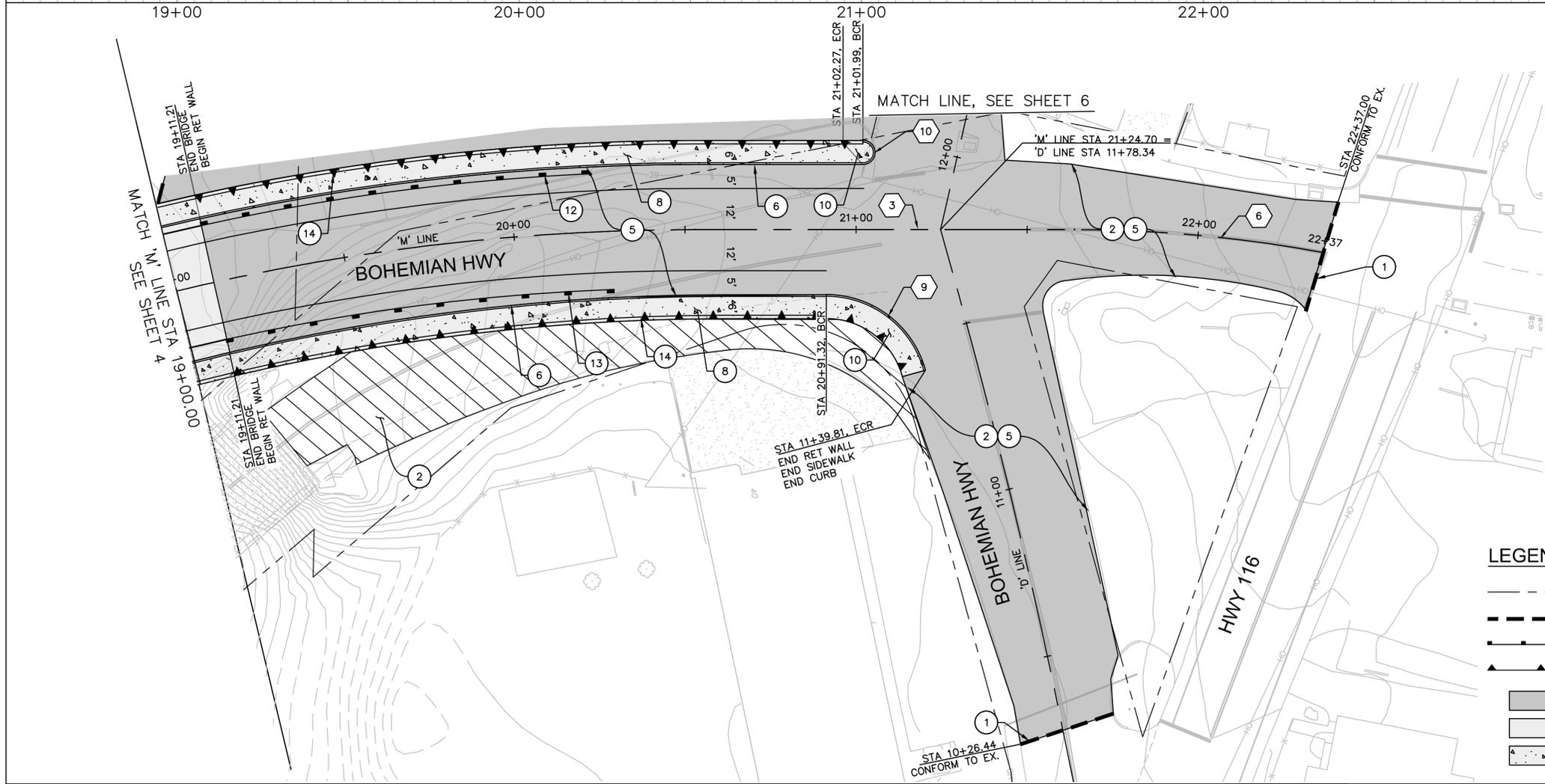
BOHEMIAN HIGHWAY OVER THE RUSSIAN RIVER REPLACEMENT PROJECT	ROAD NUMBER	20C-0018
	BUDGET NUMBER	C11009
	FISCAL YEAR	19-20
	SHEET NUMBER	4
	TOTAL SHEETS	



LINE TABLE		
LINE NO.	LENGTH	DIRECTION
3	112.88	N04°29'49"E

CURVE TABLE			
CURVE NO.	LENGTH	RADIUS	DELTA
6	71.08	380.82	010°41'38"
9	39.06	30.00	074°35'25"
10	11.00	3.50	180°00'00"

PROFILE VIEW
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 5'

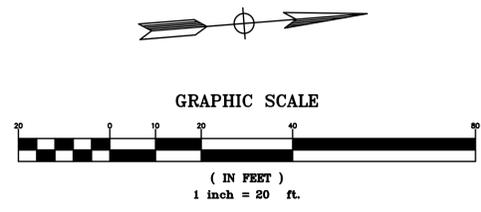


CONSTRUCTION NOTES:

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- 9 CONSTRUCT COMMERCIAL DRIVEWAY PER COUNTY STD PLAN 808
- 10 CONSTRUCT CURB RAMP FROM BCR TO ECR PER CALTRANS STD PLAN AB8A (CASE PER PLAN)
- 11 GRIND EXISTING PAVEMENT (0.10' MIN) AND CONSTRUCT AC OVERLAY TO FINISHED GRADE PER PLAN
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- 13 CONSTRUCT MIDWEST GUARD RAILING WITH IN-LINE TERMINAL SYSTEM END TREATMENT PER CALTRANS STD PLAN RSP A77Q4, TYPE 12A LAYOUT
- 14 CONSTRUCT RETAINING WALL

LEGEND:

- RIGHT OF WAY LINE
- SAWCUT
- GUARDRAIL
- ▲ RETAINING WALL
- AC PAVEMENT IMPROV
- CONCRETE PAVEMENT
- PCC IMPROVEMENTS



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CONSTRUCTION COMPLETED:	
DATE	BY APPROVED

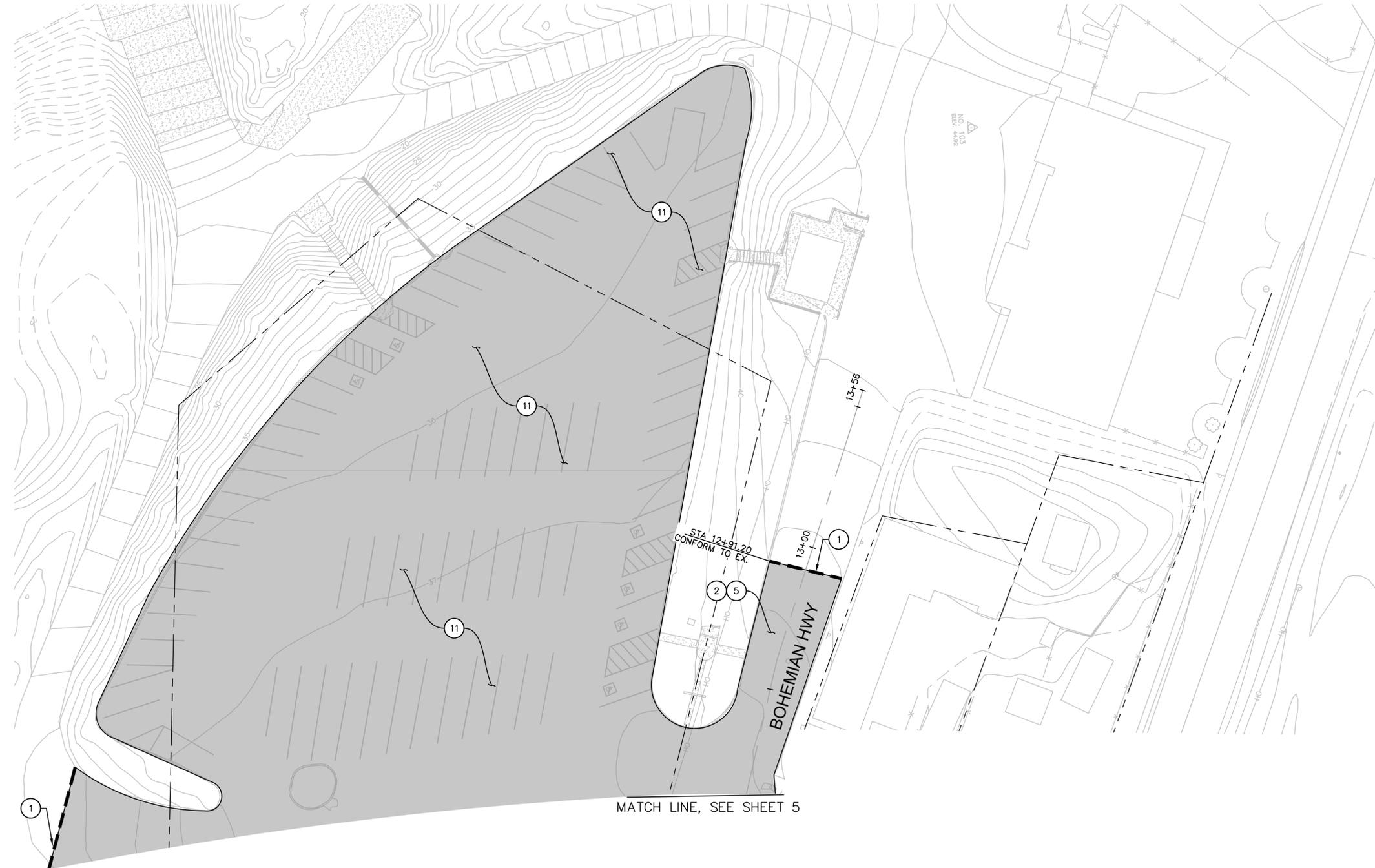
AS BUILT INFORMATION TO BE COMPLETED AFTER CONSTRUCTION

RESIDENT ENGINEER AS BUILT DRAWINGS BY:



COUNTY OF SONOMA
 DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
 JOHANNES J. HOEVERTSZ, P.E., DIRECTOR

PLAN AND PROFILE	ROAD NUMBER	20C-0018
BOHEMIAN HIGHWAY OVER THE RUSSIAN RIVER REPLACEMENT PROJECT	BUDGET NUMBER	C11009
	FISCAL YEAR	19-20
	SHEET NUMBER	5
	TOTAL SHEETS	



CONSTRUCTION NOTES:

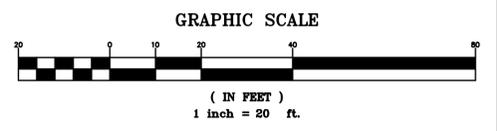
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- 1 SAWCUT
- 2 REMOVE PAVEMENT LIMITS AS SHOWN ON PLAN

- 5 CONSTRUCT NEW AC PAVEMENT SECTION

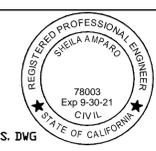
- 11 GRIND EXISTING PAVEMENT (0.10' MIN) AND CONSTRUCT AC OVERLAY TO FINISHED GRADE PER PLAN

LEGEND:

- RIGHT OF WAY LINE
- SAWCUT
- GUARDRAIL
- RETAINING WALL
- AC PAVEMENT IMPROVEMENTS
- CONCRETE PAVEMENT IMPROVEMENTS
- PCC IMPROVEMENTS



DESIGN BY	LS	REGISTERED CIVIL ENGINEER
DRAWING BY	LS	PLANS APPROVAL DATE
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"AS BUILT" INFORMATION TO BE COMPLETED AFTER CONSTRUCTION			
DATE	BY	APPROVED	

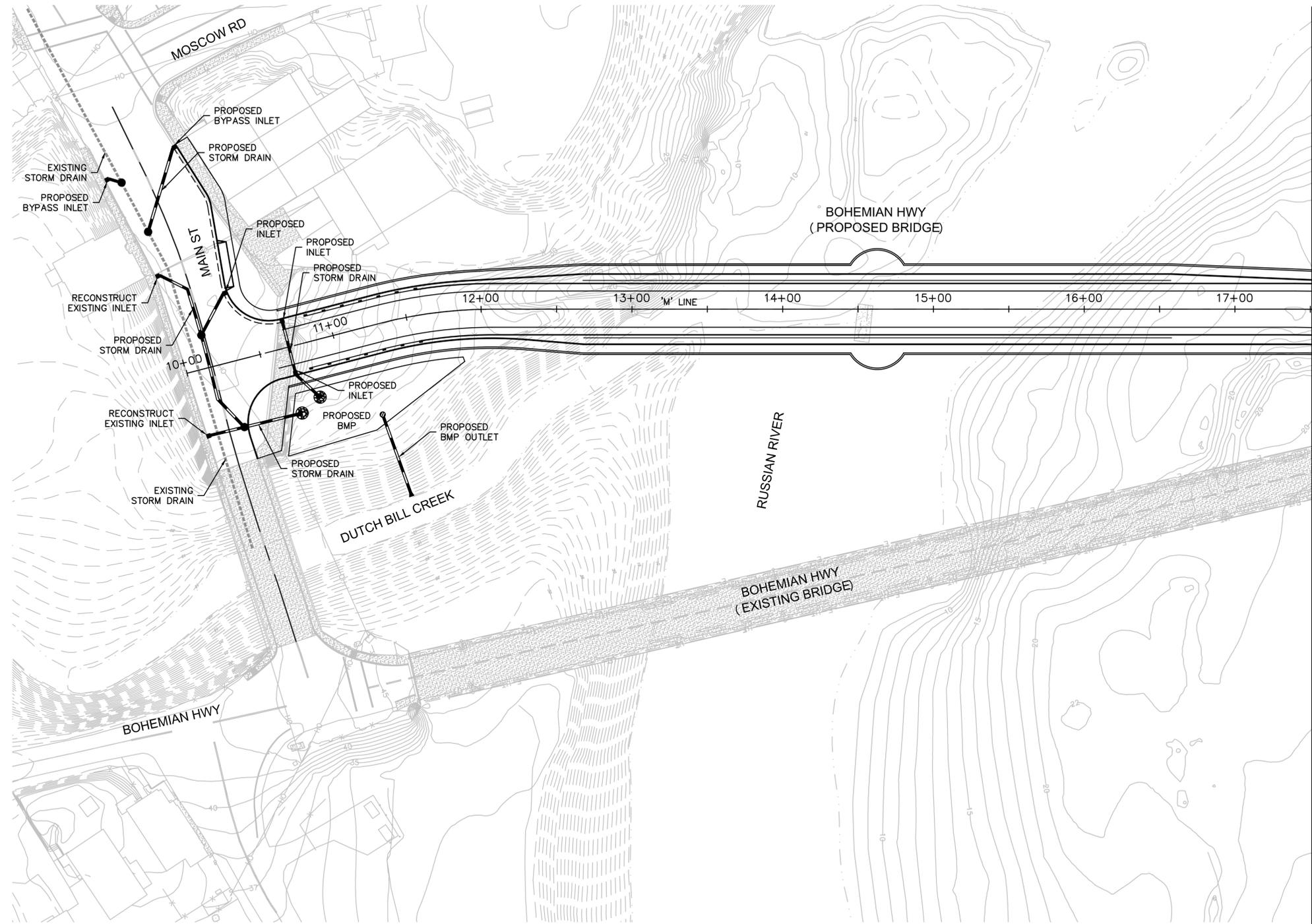
RESIDENT ENGINEER
AS BUILT DRAWINGS BY:

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
565 The Alameda
San Jose, California 95126
408-298-8515

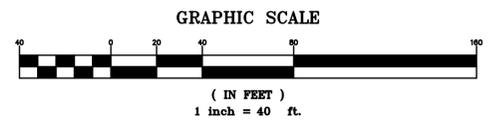


COUNTY OF SONOMA
DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
JOHANNES J. HOEVERTSZ, P.E., DIRECTOR

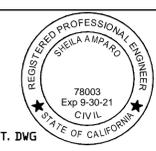
CONSTRUCTION DETAIL	ROAD NUMBER	20C-0018
BOHEMIAN HIGHWAY BRIDGE OVER THE RUSSIAN RIVER REPLACEMENT PROJECT	BUDGET NUMBER	C11009
	FISCAL YEAR	19-20
	SHEET NUMBER	6
	TOTAL SHEETS	



MATCH 'M' LINE STA 17+50.00
SEE SHEET 8



DESIGN BY	LS	REGISTERED CIVIL ENGINEER
DRAWING BY	LS	PLANS APPROVAL DATE
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"AS BUILT" INFORMATION TO BE COMPLETED AFTER CONSTRUCTION			
DATE	BY	APPROVED	

CONSTRUCTION COMPLETED:

BKF ENGINEERS
4675 MACARTHUR COURT,
SUITE 400
NEWPORT BEACH, CA 92660
T: (949) 526-8460

RESIDENT ENGINEER
AS BUILT DRAWINGS BY:

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
565 The Alameda
San Jose, California 95126
408-298-8515



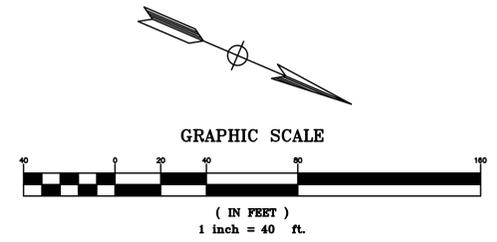
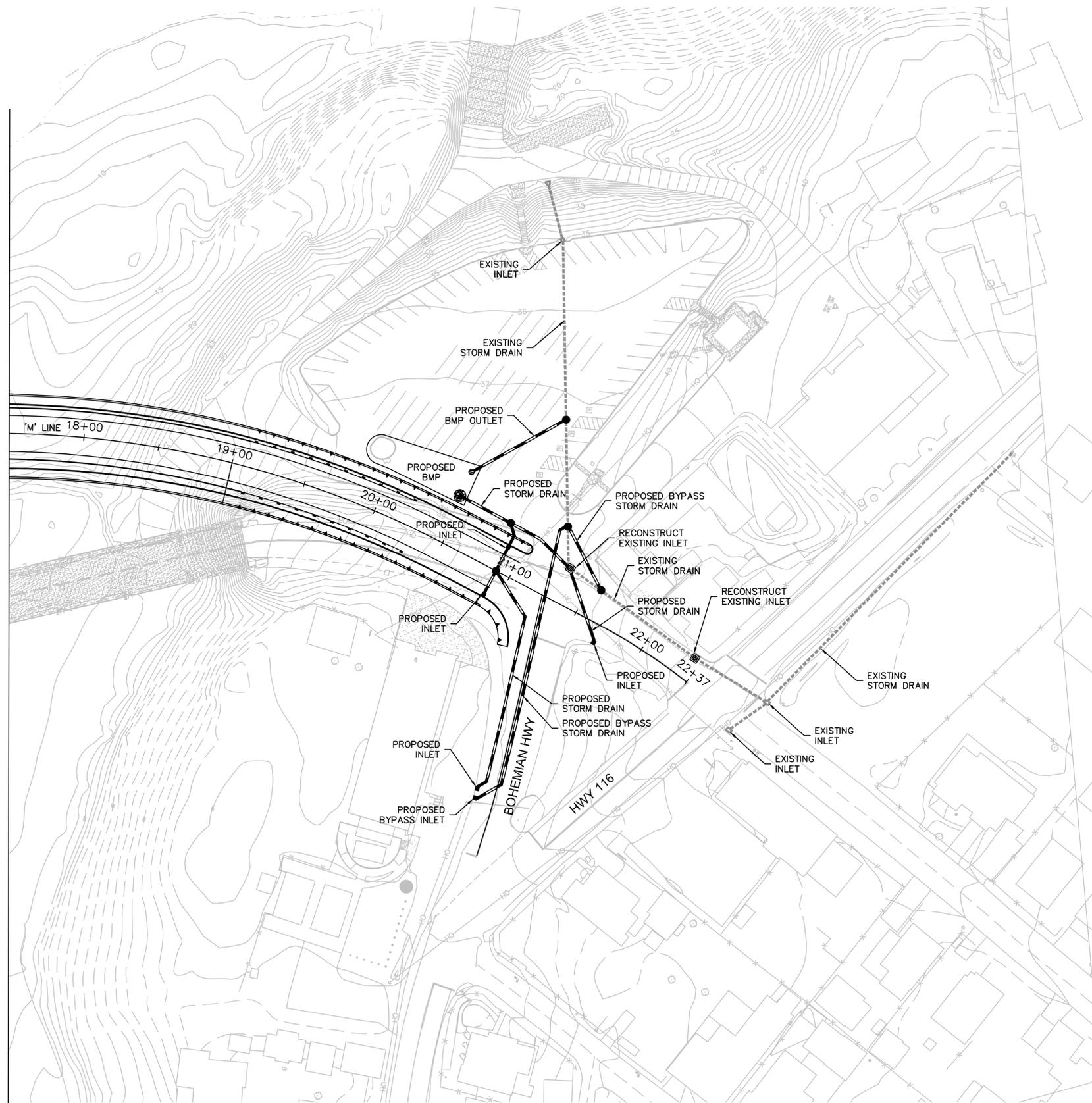
COUNTY OF SONOMA
DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
JOHANNES J. HOEVERTSZ, P.E., DIRECTOR

STORMWATER TREATMENT PLAN

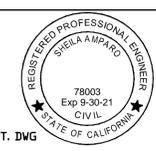
BOHEMIAN HIGHWAY BRIDGE OVER THE RUSSIAN RIVER REPLACEMENT PROJECT

ROAD NUMBER	20C-0018
BUDGET NUMBER	C11009
FISCAL YEAR	19-20
SHEET NUMBER	7
TOTAL SHEETS	

MATCH 'M' LINE STA 17+50.00
SEE SHEET 7



DESIGN BY	LS	REGISTERED CIVIL ENGINEER
DRAWING BY	LS	PLANS APPROVAL DATE
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"AS BUILT" INFORMATION TO BE COMPLETED AFTER CONSTRUCTION	
DATE	BY

CONSTRUCTION COMPLETED:
RESIDENT ENGINEER AS BUILT DRAWINGS BY:
BY APPROVED



COUNTY OF SONOMA
DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
JOHANNES J. HOEVERTSZ, P.E., DIRECTOR

STORMWATER TREATMENT PLAN
BOHEMIAN HIGHWAY BRIDGE OVER THE RUSSIAN RIVER REPLACEMENT PROJECT

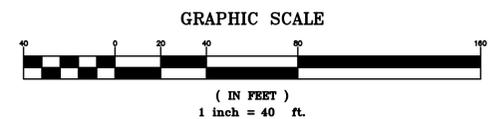
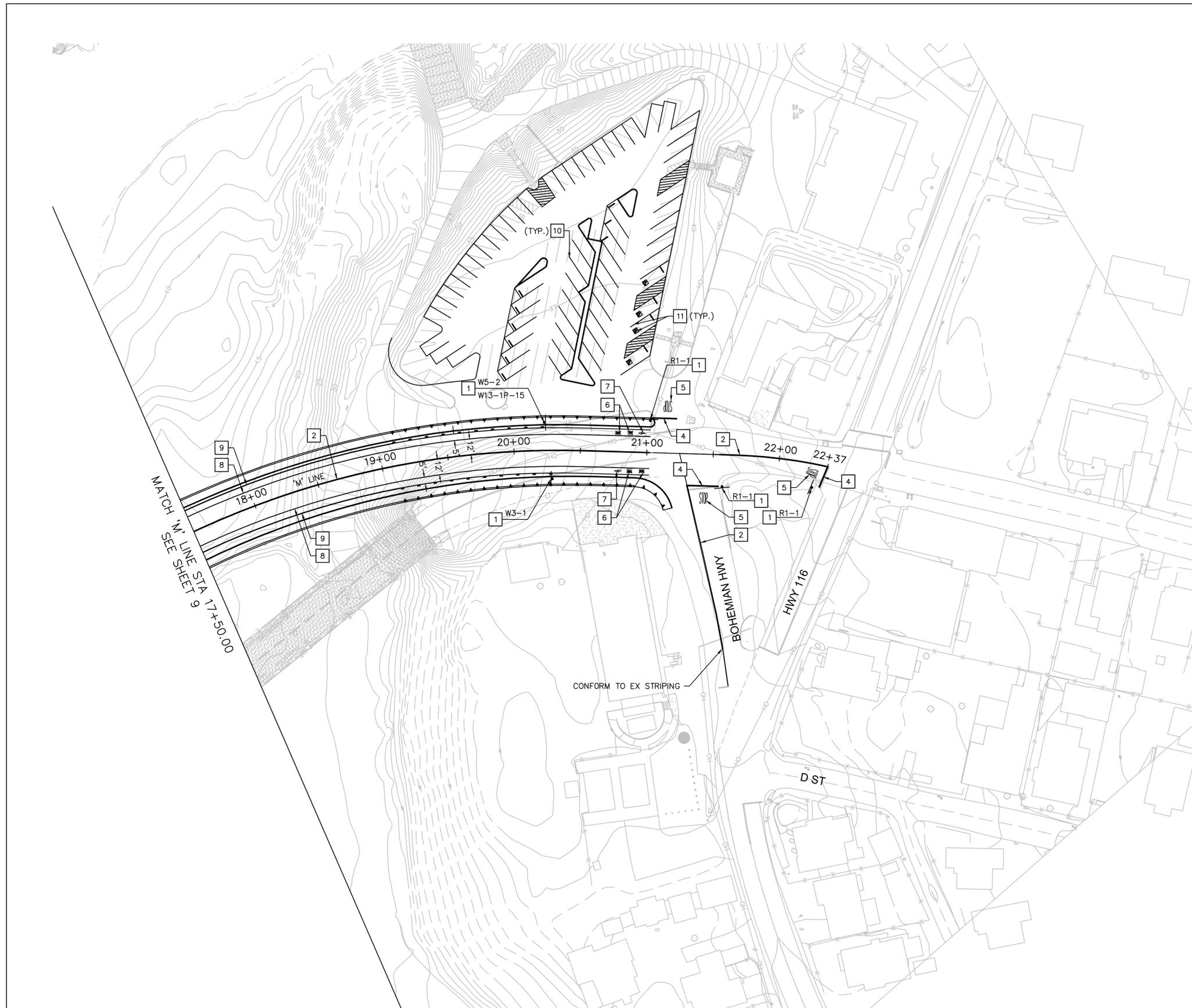
ROAD NUMBER	20C-0018
BUDGET NUMBER	C11009
FISCAL YEAR	19-20
SHEET NUMBER	8
TOTAL SHEETS	

SIGNING AND STRIPING NOTES:

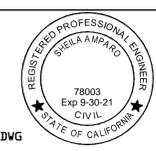
- P PROTECT IN PLACE (ITEM)
- R REMOVE EXISTING ROADSIDE SIGN & POST
- 1 INSTALL SIGN AND POST AS INDICATED
- 2 INSTALL TRAFFIC STRIPE AS SHOWN ON CALTRANS STD. PLAN NO A20A DETAIL 22
- 3 INSTALL WHITE LADDER CROSSWALK MARKING AS SHOWN ON CALTRANS STD. PLAN NO. A24F
- 4 INSTALL 12" WHITE LIMIT LINE AS SHOWN ON CALTRANS STD. PLAN NO A24E
- 5 INSTALL PAVEMENT MARKING AS SHOWN ON CALTRANS STD. PLAN NO A24C AND A24D
- 6 INSTALL "BIKE LANE" MARKING AS SHOWN ON CALTRANS STD. PLAN NO A24D
- 7 INSTALL BIKE LANE ARROW AS SHOWN ON CALTRANS STD. PLAN NO A24A
- 8 INSTALL 6" WHITE BIKE LANE LINE AS SHOWN ON CALTRANS STD. PLAN NO A20D DETAIL 39
- 9 INSTALL WHITE RIGHT EDGELINE AS SHOWN ON CALTRANS STD. PLAN NO A20B DETAIL 27B
- 10 INSTALL STANDARD PARKING STALL STRIPING
- 11 INSTALL ADA PARKING STALL STRIPING AND MARKINGS

SIGNING AND STRIPING GENERAL NOTES:

1. ALL CONFLICTING STRIPES, PAVEMENT MARKINGS, AND LEGENDS SHALL BE COMPLETELY REMOVE BY WET SANDBLASTING, OR OTHER METHOD APPROVED BY THE COUNTY TRAFFIC ENGINEER PRIOR TO ANY CHANGE IN THE TRAFFIC PATTERN.
2. CONTRACTOR SHALL RE-STRIPE LANE LINES IMPACTED DURING CONSTRUCTION IN-KIND.
3. ALL WORK AND MATERIALS SHALL COMPLY WITH CALTRANS STANDARDS (LATEST EDITION) AND THE MANUAL OF UNIFORM CONTROL DEVICES (MUTCD) (LATEST EDITION).



DESIGN BY	LS	REGISTERED CIVIL ENGINEER
DRAWING BY	LS	PLANS APPROVAL DATE
CHECKED BY	SA	P:\2016\161020 REPLACEMENT OF THE MONTE RIO BRIDGE\ENG\DWG\SHEETS\6 - SIGNING & STRIPING.DWG 12/16/2020 11:48 PM



CONSTRUCTION COMPLETED:			
"AS BUILT" INFORMATION TO BE COMPLETED AFTER CONSTRUCTION			
DATE	BY	APPROVED	

RESIDENT ENGINEER AS BUILT DRAWINGS BY:

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
565 THE ALCANTARA
San Jose, California 95126
408-298-8515



COUNTY OF SONOMA
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JOHANNES J. HOEVERTSZ, P.E., DIRECTOR

SIGNING AND STRIPING		ROAD NUMBER	20C-0018
BOHEMIAN HIGHWAY BRIDGE OVER THE RUSSIAN RIVER REPLACEMENT PROJECT		BUDGET NUMBER	C11009
		FISCAL YEAR	19-20
		SHEET NUMBER	10
		TOTAL SHEETS	

TRAFFIC CONTROL PLAN NOTES:

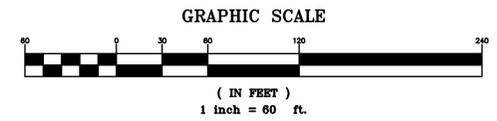
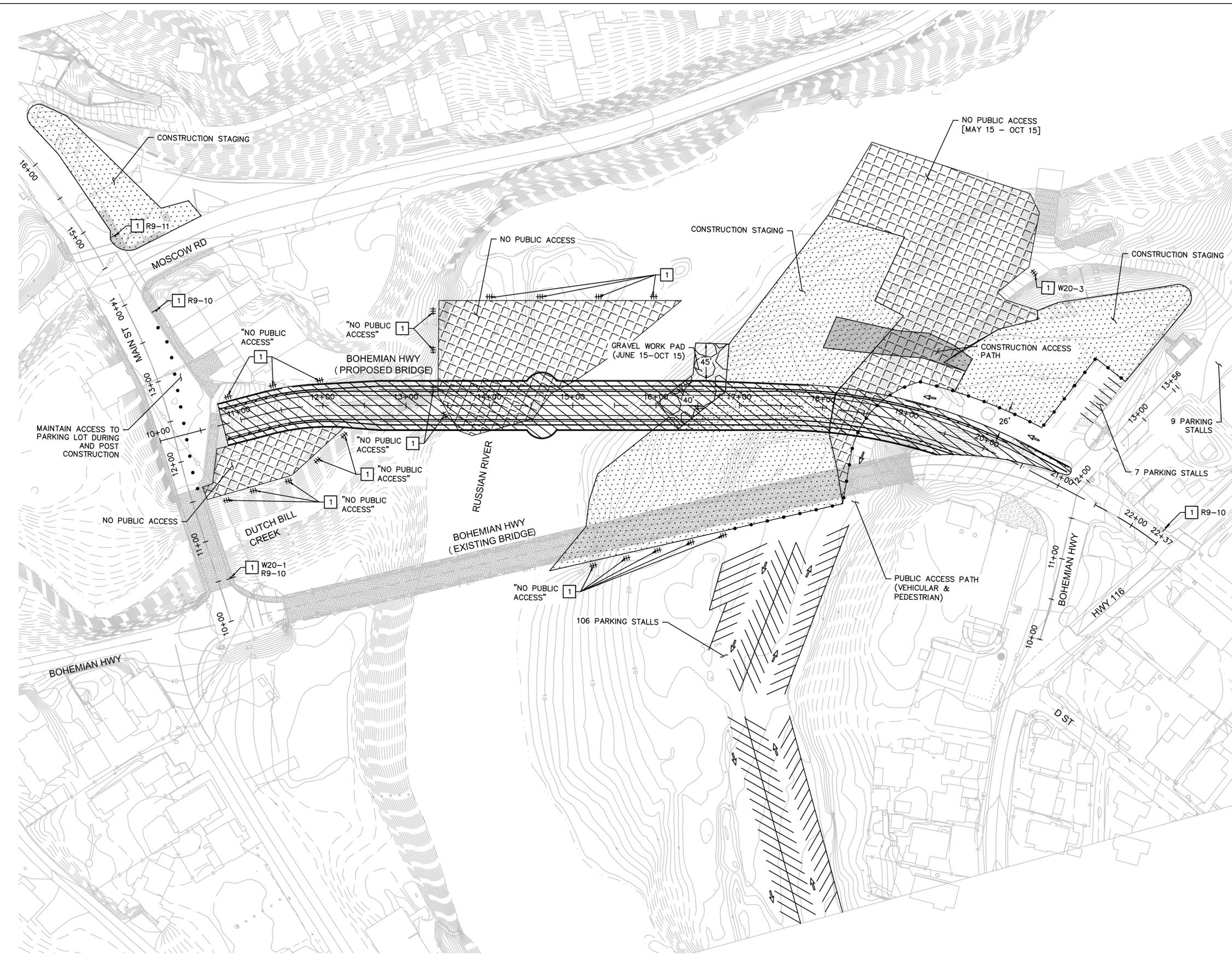
- 1 INSTALL TRAFFIC CONTROL SIGNS, AS SPECIFIED ON PLAN

TRAFFIC CONTROL LEGEND:

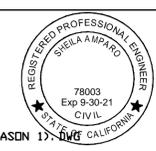
-  CONSTRUCTION AREA
-  CONSTRUCTION STAGING AREA
-  NO PUBLIC ACCESS
-  CONSTRUCTION ACCESS PATH
-  GRAVEL WORK PAD
-  DIRECTION OF TRAVEL
-  CHANNELIZER
-  TYPE III BARRICADE

CONSTRUCTION SEASON 1

- MAY 15 – OCTOBER 15:**
- CONSTRUCT PILES
 - CONSTRUCT COLUMNS
 - CONSTRUCT BENT CAPS
 - CONSTRUCT SOUTH ABUTMENT WALLS AND WINGWALLS
 - EXISTING BRIDGE TO REMAIN FOR ACCESS



DESIGN BY	LS	REGISTERED CIVIL ENGINEER
DRAWING BY	LS	PLANS APPROVAL DATE
CHECKED BY	SA	P \2016\161020 REPLACEMENT OF THE MONTE RIO BRIDGE VENG DNG SHEETS\7 - TRAFFIC CONTROL (SEASON 1) - 12/17/2020 12:10 AM



CONSTRUCTION COMPLETED:

RESIDENT ENGINEER AS BUILT DRAWINGS BY:

DATE	BY	APPROVED

BKF ENGINEERS
4675 MACARTHUR COURT,
SUITE 400
NEWPORT BEACH, CA 92660
T: (949) 526-8460

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
565 The Alameda
San Jose, California 95126
408-298-8515



COUNTY OF SONOMA
DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
JOHANNES J. HOEVERTSZ, P.E., DIRECTOR

STAGE CONSTRUCTION AND TRAFFIC CONTROL PLAN SEASON 1	ROAD NUMBER	20C-0018
BOHEMIAN HIGHWAY BRIDGE OVER THE RUSSIAN RIVER REPLACEMENT PROJECT	BUDGET NUMBER	C11009
	FISCAL YEAR	19-20
	SHEET NUMBER	11
	TOTAL SHEETS	

TRAFFIC CONTROL PLAN NOTES:

- 1 INSTALL TRAFFIC CONTROL SIGNS, AS SPECIFIED ON PLAN

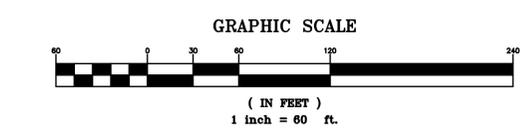
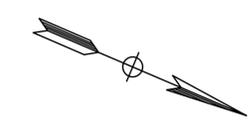
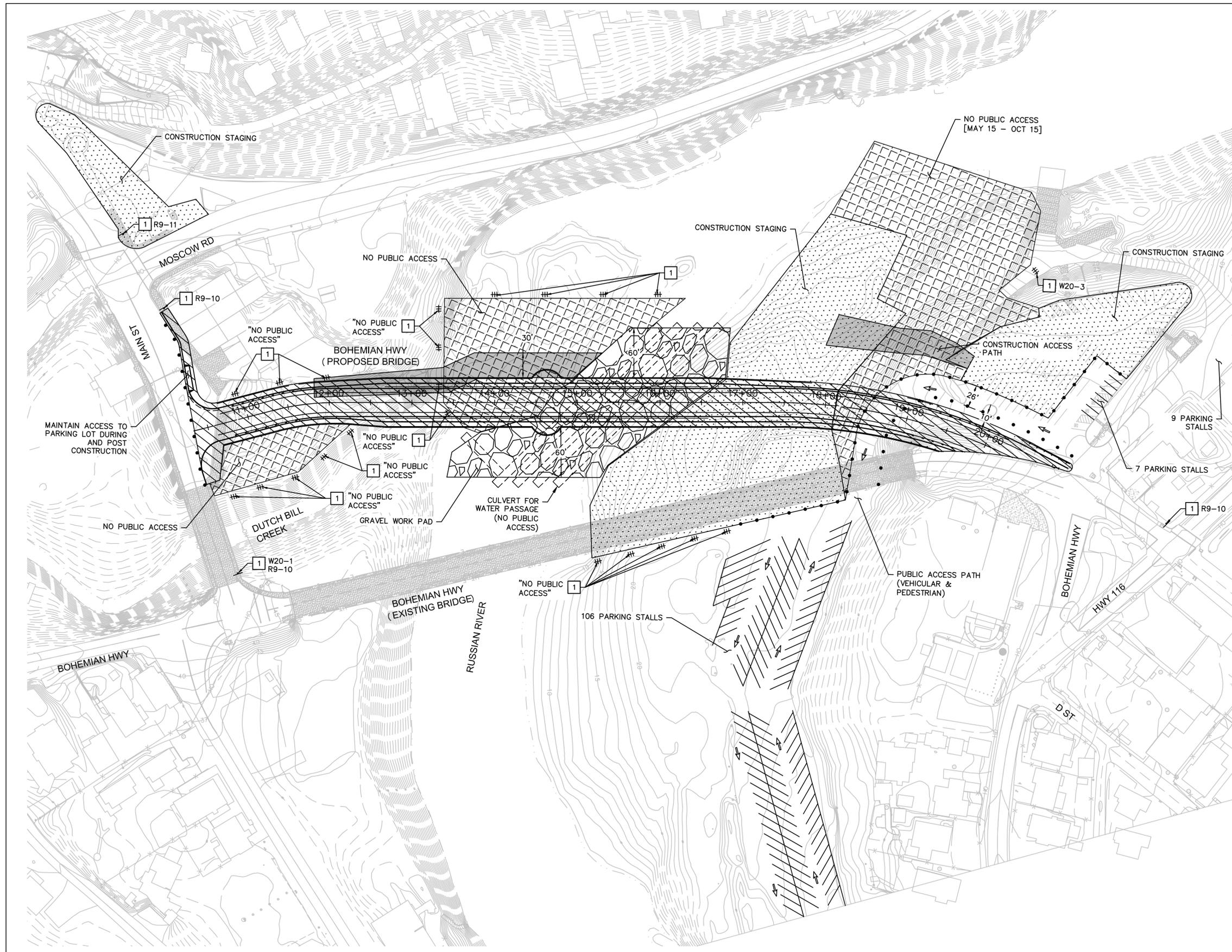
TRAFFIC CONTROL LEGEND:

- CONSTRUCTION AREA
- CONSTRUCTION STAGING AREA
- NO PUBLIC ACCESS
- CONSTRUCTION ACCESS PATH
- GRAVEL WORK PAD
- DIRECTION OF TRAVEL
- CHANNELIZER
- TYPE III BARRICADE

CONSTRUCTION SEASON 2

MAY 15 - OCTOBER 15:

- CONSTRUCT ARCH SPAN
- CONSTRUCT SOUTH APPROACH SUPERSTRUCTURE
- CONSTRUCT NORTH APPROACH WEST RETAINING WALL
- CONSTRUCT NORTH ABUTMENT
- CONSTRUCT NORTH APPROACH SUPERSTRUCTURE
- RELOCATE UTILITIES DURING SUPERSTRUCTURE CONSTRUCTION
- EXISTING BRIDGE TO REMAIN FOR ACCESS



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DATE	BY

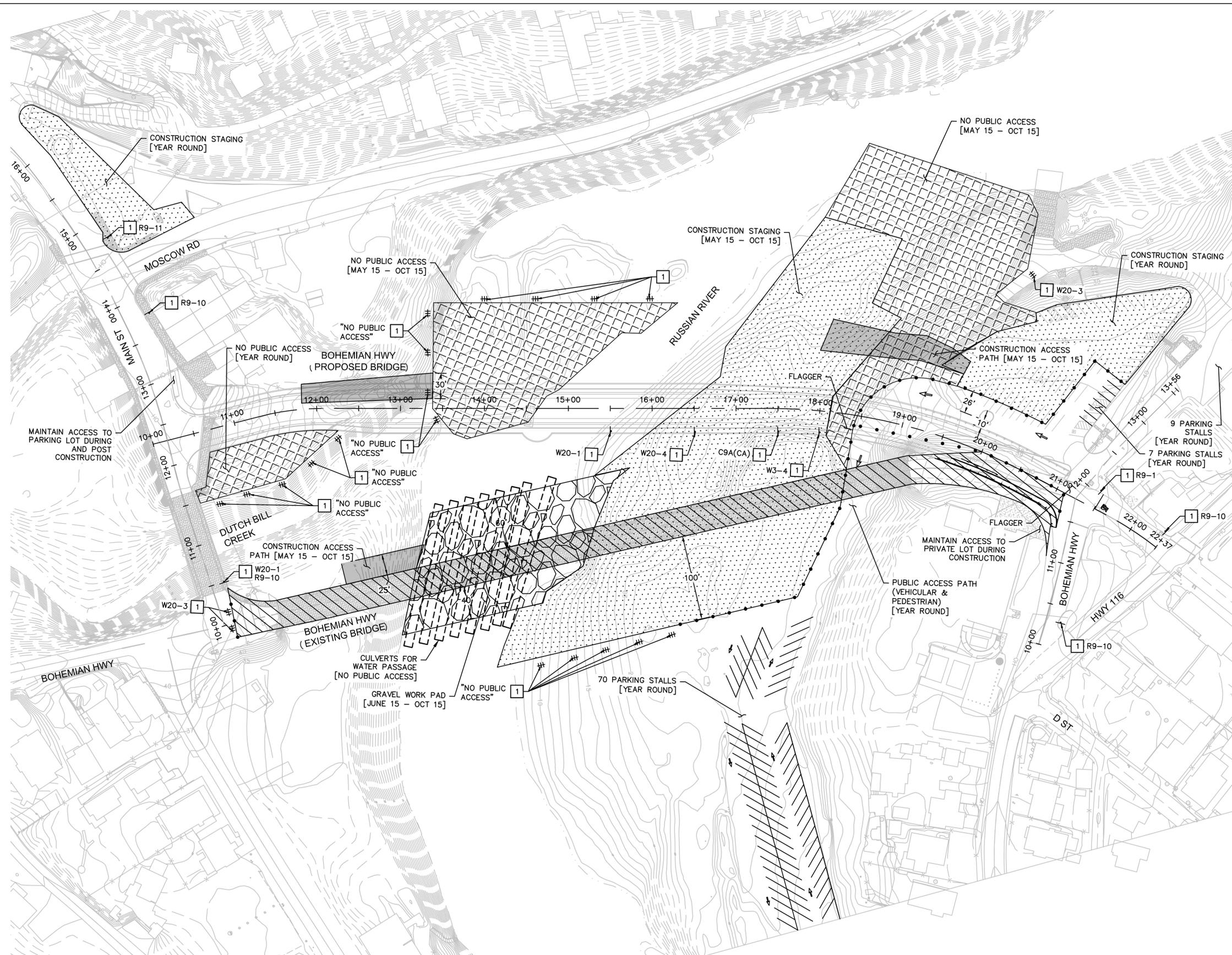
CONSTRUCTION COMPLETED:
 RESIDENT ENGINEER AS BUILT DRAWINGS BY:
 BY APPROVED



COUNTY OF SONOMA
 DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
 JOHANNES J. HOEVERTSZ, P.E., DIRECTOR

STAGE CONSTRUCTION AND TRAFFIC CONTROL PLAN
 SEASON 2
**BOHEMIAN HIGHWAY BRIDGE OVER THE
 RUSSIAN RIVER REPLACEMENT PROJECT**

ROAD NUMBER	20C-0018
BUDGET NUMBER	C11009
FISCAL YEAR	19-20
SHEET NUMBER	12
TOTAL SHEETS	



TRAFFIC CONTROL PLAN NOTES:

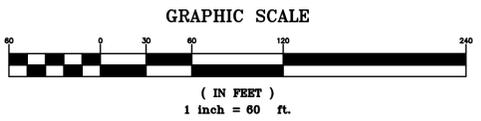
- 1 INSTALL TRAFFIC CONTROL SIGNS, AS SPECIFIED ON PLAN

TRAFFIC CONTROL LEGEND:

- CONSTRUCTION AREA
- CONSTRUCTION STAGING AREA
- NO PUBLIC ACCESS
- CONSTRUCTION ACCESS PATH
- GRAVEL WORK PAD
- DIRECTION OF TRAVEL
- CHANNELIZER
- TYPE III BARRICADE

CONSTRUCTION SEASON 3

- MAY 15 – OCTOBER 15:**
- COMPLETE NEW BRIDGE AND ROADWAY APPROACHES
 - OPEN NEW BRIDGE
 - DEMOLISH EXISTING BRIDGE
 - LANDSCAPING AND MITIGATION PLANING
 - PAVE AND RESTRIPE PARKING LOT



DESIGN BY	LS	REGISTERED CIVIL ENGINEER
DRAWING BY	LS	PLANS APPROVAL DATE
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DATE	BY

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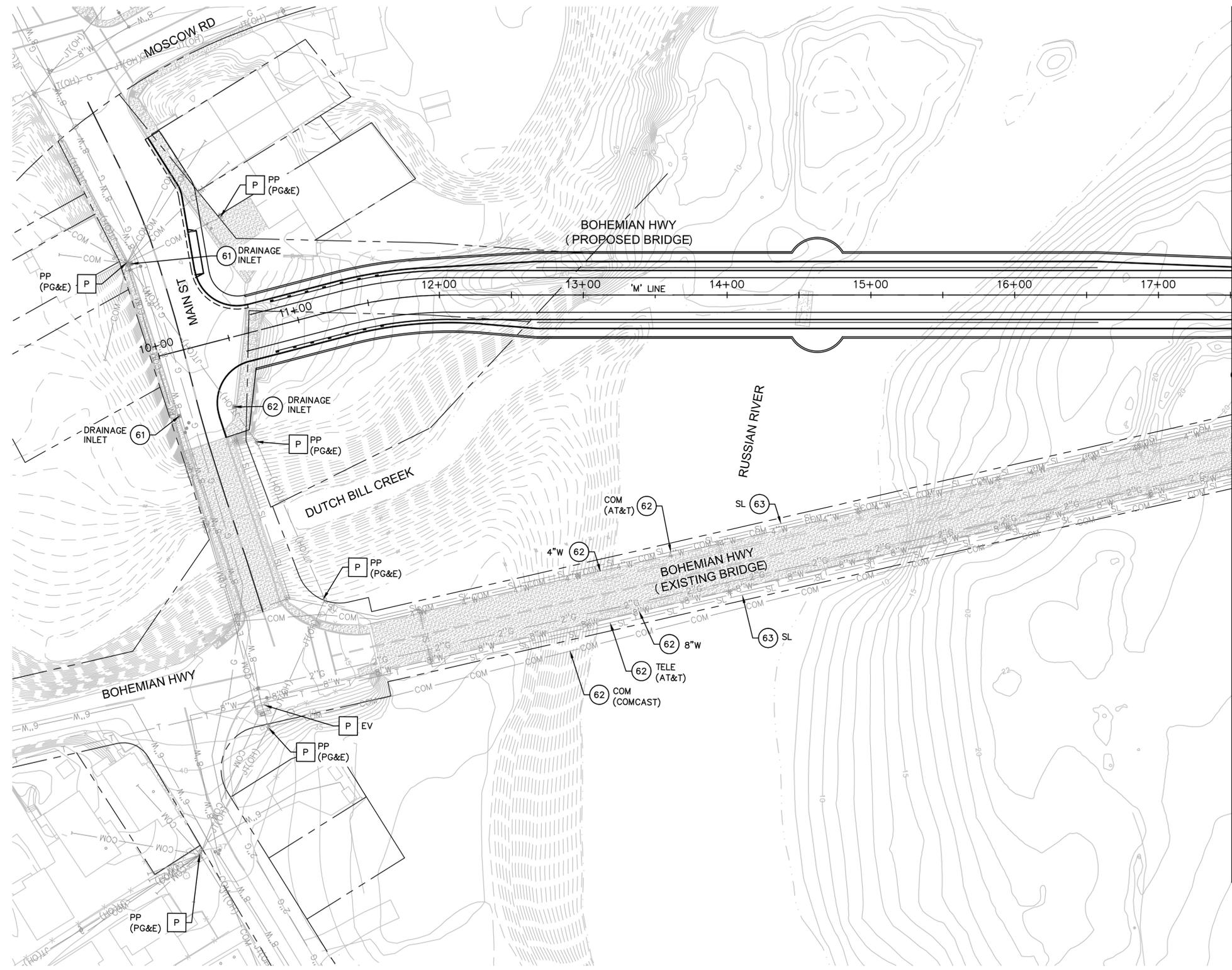


COUNTY OF SONOMA
DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
JOHANNES J. HOEVERTSZ, P.E., DIRECTOR

STAGE CONSTRUCTION AND TRAFFIC CONTROL PLAN SEASON 3

BOHEMIAN HIGHWAY BRIDGE OVER THE RUSSIAN RIVER REPLACEMENT PROJECT

ROAD NUMBER	20C-0018
BUDGET NUMBER	C11009
FISCAL YEAR	19-20
SHEET NUMBER	13
TOTAL SHEETS	



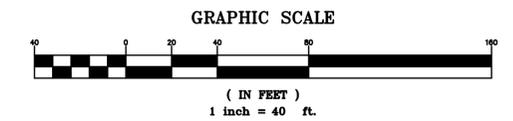
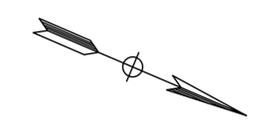
UTILITY NOTES:

- P PROTECT IN PLACE
- 61 ADJUST TO GRADE
- 62 RELOCATE EXISTING UTILITY
- 63 REMOVE EXISTING UTILITY

LEGEND:

- RIGHT OF WAY LINE
- E --- EXISTING ELECTRICAL
- SL --- EXISTING STREET LIGHT CONDUIT
- G --- EXISTING GAS
- JT(OH) --- EXISTING JOINT OVERHEAD
- W --- EXISTING WATER
- SS --- EXISTING SANITARY SEWER
- SD --- EXISTING STORM DRAIN
- COM(UG) --- EXISTING TELECOMMUNICATION

MATCH 'M' LINE STA 17+50.00
SEE SHEET 15



DESIGN BY	LS	REGISTERED CIVIL ENGINEER
DRAWING BY	LS	PLANS APPROVAL DATE
CHECKED BY	SA	P:\2016\161020_REPLACEMENT OF THE MONTE RIO BRIDGE\ENGV\DWG\SHEETS\9 - UTILITY PLAN.DWG 12/17/2016 12:03 AM



"AS BUILT" INFORMATION TO BE COMPLETED AFTER CONSTRUCTION	
DATE	BY

CONSTRUCTION COMPLETED:

RESIDENT ENGINEER AS BUILT DRAWINGS BY:

BY: APPROVED:



COUNTY OF SONOMA
DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
JOHANNES J. HOEVERTSZ, P.E., DIRECTOR

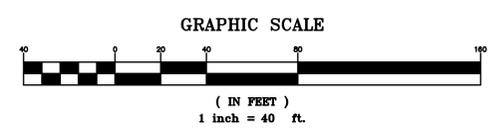
UTILITY PLAN		ROAD NUMBER	20C-0018
BOHEMIAN HIGHWAY BRIDGE OVER THE RUSSIAN RIVER REPLACEMENT PROJECT		BUDGET NUMBER	C11009
		FISCAL YEAR	19-20
		SHEET NUMBER	14
		TOTAL SHEETS	

UTILITY NOTES:

- P PROTECT IN PLACE
- 61 ADJUST TO GRADE
- 62 RELOCATE EXISTING UTILITY
- 63 REMOVE EXISTING UTILITY

LEGEND:

- RIGHT OF WAY LINE
- E — EXISTING ELECTRICAL
- SL — EXISTING STREET LIGHT CONDUIT
- G — EXISTING GAS
- JT(OH) — EXISTING JOINT OVERHEAD
- W — EXISTING WATER
- SS — EXISTING SANITARY SEWER
- SD — EXISTING STORM DRAIN
- COM(UG) — EXISTING TELECOMMUNICATION
- T — EXISTING TELEPHONE



DESIGN BY	LS	REGISTERED CIVIL ENGINEER
DRAWING BY	LS	PLANS APPROVAL DATE
CHECKED BY	SA	P:\2016\161020 REPLACEMENT OF THE MONTE RIO BRIDGE\ENG\DWG\SHEETS\9 - UTILITY PLAN.DWG 12/17/2016 12:00 AM



CONSTRUCTION COMPLETED:	
"AS BUILT" INFORMATION TO BE COMPLETED AFTER CONSTRUCTION	
DATE	BY

RESIDENT ENGINEER AS BUILT DRAWINGS BY:

BY: APPROVED



COUNTY OF SONOMA
DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
JOHANNES J. HOEVERTSZ, P.E., DIRECTOR

UTILITY PLAN	
ROAD NUMBER	20C-0018
BUDGET NUMBER	C11009
FISCAL YEAR	19-20
SHEET NUMBER	15
TOTAL SHEETS	

BOHEMIAN HIGHWAY BRIDGE OVER THE RUSSIAN RIVER REPLACEMENT PROJECT

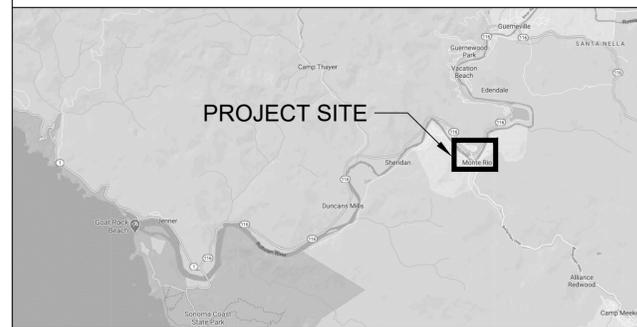
GENERAL NOTES

- THESE DRAWINGS AND SPECIFICATIONS DESCRIBE THE QUALITY AND CHARACTER OF THE MATERIALS, SHAPE, CONFIGURATION AND DESIGN INTENT OF THE COMPLETED, INSTALLED WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE AND OPERATIONAL SYSTEMS AND INSTALLATIONS OF THE DESCRIBED DESIGN INTENT, INCLUDING ALL MISCELLANEOUS ITEMS OF WORK, MATERIALS, EQUIPMENT, ETC., NECESSARY TO COMPLETE THE INSTALLATION WHETHER OR NOT MENTIONED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS. ALL MATERIALS SHALL BE FURNISHED AND PROPERLY INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- THE INSTALLED WORK SHALL CONFORM TO THE REQUIREMENTS OF THE GOVERNING BUILDING AUTHORITY, ALL SPECIAL REQUIREMENTS AND CONDITIONS OF THE BUILDING PERMIT, AND ALL APPLICABLE CODES, LAWS, STANDARDS, ETC.
- THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND SPECIFICATIONS AND CLEARLY UNDERSTAND THE EXISTING CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED PRIOR TO BIDDING. THE CONTRACTOR SHALL BE FAMILIAR WITH THE PROJECT SITE, FIELD INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL CONDITIONS, ELEVATIONS AND DIMENSIONS OF THE PROJECT, AS SHOWN ON OR REFERENCED ON THE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE ABOUT ANY CONDITION REQUIRING MODIFICATION OR CLARIFICATION PRIOR TO BIDDING. ENTERING INTO AN AGREEMENT WITH THE OWNER INDICATES THAT THE CONTRACTOR HAS VISITED THE SITE, FAMILIAR WITH THE EXISTING CONDITIONS AND FULLY UNDERSTANDS THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. NO ALLOWANCES OF ANY KIND WILL BE MADE FOR ANY EXTRA COST DUE TO THE CONTRACTOR'S FAILURE TO INFORM THE OWNER OF DISCREPANCIES IN TIME TO ISSUE CORRECTIVE ADDENDA PRIOR TO BIDDING.
- ALL GENERAL NOTES, DIMENSIONS, AND DETAILS SHALL BE CONSIDERED TYPICAL AND APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED. SPECIFIC NOTES, DETAILS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL WORK BETWEEN TRADES, SUBCONTRACTORS, MANUFACTURERS, FABRICATORS, AND ALL OTHER CONTRACTED FOR THE COMPLETION OF THE WORK, INCLUDING THOSE UNDER SEPARATE CONTRACTS FOR CONCURRENT PROJECTS.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL TESTING, INSPECTIONS AND REPORTING AS OUTLINED IN THE CONTRACT DOCUMENT AND AS REQUIRED BY THE PERMITTING AUTHORITIES TO COMPLETE THE WORK.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS SPECIFIED IN THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY _____, DATED _____. THE RECOMMENDATIONS OF THE REPORT SHALL SUPERSEDE THE INFORMATION FOUND WITHIN THESE CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS).
- ALL UNDERGROUND UTILITIES SHOWN ON THESE PLANS REFLECT THE AVAILABLE RECORDS. CONTRACTOR SHALL USE CAUTION IN ALL EXCAVATION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE TO INVESTIGATE AND VERIFY ALL EXISTING AND PROPOSED CONDITIONS AS SHOWN OR REFERENCED IN THE DOCUMENTS, INCLUDING LOCATION AND DEPTH OF ALL UTILITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY CONFLICTS AND/OR DISCREPANCIES BETWEEN EXISTING AND PROPOSED CONDITIONS WHICH WILL AFFECT THE WORK, BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA 800-642-2444) TWO WORKING DAYS MINIMUM PRIOR TO ANY EXCAVATION.
- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE DIVISION OF INDUSTRIAL SAFETY PERTAINING TO "CONFINED SPACE". ANY MANHOLE, CULVERT, DROP INLET OR TRENCH, WHICH COULD CONTAIN AIR THAT IS NOT READILY VENTILATED, MAY BE CONSIDERED A "CONFINED SPACE".
- PROVIDE ADEQUATE PROTECTION FOR ALL PROPOSED AND EXISTING UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT.
- ALL EXISTING UTILITY STRUCTURES (SHOWN OR NOT SHOWN ON THE DRAWINGS) WITHIN THE AREA OF WORK SHALL BE ADJUSTED OR RECONSTRUCTED TO THE FINISH GRADES SHOWN AND SPECIFIED.
- UTILITY CONNECTIONS AND DISCONNECTIONS NECESSARY TO COMPLETE THE WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO MINIMIZE UTILITY SERVICE INTERRUPTIONS. CONTRACTOR SHALL COORDINATE ALL "DOWN TIME" WITH THE OWNER'S REPRESENTATIVE AND THE APPROPRIATE UTILITY AND/OR AGENCY.
- REFER TO CIVIL DRAWINGS FOR INFORMATION AND LOCATION OF ALL EXISTING AND PROPOSED UTILITIES.
- REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR INFORMATION REGARDING ALL STRUCTURAL CONNECTIONS, WATERPROOFING, BUILDING SYSTEMS AND REQUIREMENTS.

- THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES, TREES, LANDSCAPE AND OTHER ITEMS TO REMAIN FROM DAMAGE. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL PROVIDE BARRICADES, SIGNS, LIGHTS, ETC. FOR THE PROTECTION OF PUBLIC, PERSONNEL, PROPERTY, AND MATERIAL AND TO PREVENT UNCONTROLLED ACCESS TO THE SITE AT ALL TIMES. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND NOT LIMITED TO NORMAL WORKING HOURS.
- THE CONTRACTOR SHALL PROVIDE ACCESSIBLE EGRESS AND INGRESS TO ON-SITE FACILITIES THAT ARE TO REMAIN OPERATIONAL DURING CONSTRUCTION.
- ANY PERMANENT MONUMENTS OR POINTS DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED BY A LICENSED ENGINEER OR LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL EMPLOY ALL MEANS NECESSARY TO CONTROL AIRBORNE PARTICULATE (DUST) AT AND NEAR THE CONSTRUCTION SITE OF WORK AND ALONG APPROACH ROUTES TO THE CONSTRUCTION SITE AND IN COMPLIANCE WITH LOCAL AIR QUALITY STANDARDS.
- CONTRACTOR SHALL MAINTAIN "GOOD HOUSEKEEPING" PRACTICES AT THE JOB SITE. EXCESS BUILDING MATERIALS AND DEBRIS SHALL BE REMOVED PROMPTLY FROM THE JOB SITE AND DISPOSED OF AT AN APPROVED DUMPSITE. THE JOB SITE SHALL BE LEFT "BROOM CLEAN" AT THE END OF EACH WORKDAY. BEFORE ACCEPTANCE BY THE OWNER'S REPRESENTATIVE, THE COMPLETED CONSTRUCTION SHALL BE CLEARED, ANY APPLICABLE LABELS REMOVED, AND ALL OTHER TOUCHUP WORK COMPLETED. ALL FINISH MATERIALS SHALL BE PROTECTED AT ALL TIMES AGAINST SUBSEQUENT DAMAGE UNTIL FINAL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR DESIGNATION OF THE EQUIPMENT AND MATERIAL STORAGE AND STAGING AREAS AT THE JOB SITE.
- WASTEWATER GENERATED DURING CONSTRUCTION SHALL NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM. IF NECESSARY, THE CONTRACTOR SHALL PROVIDE AN AREA FOR ON-SITE WASHING ACTIVITIES DURING CONSTRUCTION. MATERIALS THAT COULD CONTAMINATE STORMWATER RUNOFF SHALL BE STORED IN AREAS WHICH ARE DESIGNED TO PREVENT EXPOSURE TO RAINFALL AND PREVENT RUNOFF. GRADING AND DRAINAGE FEATURES SHALL BE CONSTRUCTED SO THAT WATER FLOW DOES NOT DRAIN TO OTHER PROPERTIES. FLUSHING OF STREETS AND PARKING LOTS TO REMOVE DIRT AND CONSTRUCTION DEBRIS IS PROHIBITED UNLESS PROPER SEDIMENT CONTROLS ARE USED.
- REFER TO CIVIL DRAWINGS FOR THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). IF NO PLAN IS PROVIDED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A SWPPP TO THE APPROPRIATE AGENCY FOR APPROVAL.
- THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE APPROPRIATE AGENCY PRIOR TO ANY WORK REQUIRING TRAFFIC CONTROL. THE CONTRACTOR SHALL BE PROVIDED TRAFFIC CONTROLS IN ACCORDANCE WITH CALTRANS "MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES" (CURRENT EDITION) AND ANY ADDITIONAL CITY, COUNTY, DISTRICT OR OTHER AGENCY REQUIREMENTS. FAILURE TO COMPLY MAY RESULT IN IMMEDIATE STOPPAGE OF WORK UNTIL THE PROPER TRAFFIC CONTROL IS IN PLACE.
- THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO ALL IMPROVEMENTS TO THE ADJACENT EXISTING CONDITIONS WITH SMOOTH TRANSITIONS TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES, CROSS SLOPE, HAZARDOUS CONDITIONS, ETC.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY REVISIONS OR ADDITIONAL WORK REQUIRED AS A RESULT OF FIELD CONDITIONS OR LOCAL GOVERNING AUTHORITIES. ALL REVISIONS SHALL BE IN WRITTEN CHANGE ORDER FORM AND APPROVED AND AUTHORIZED BY THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK. WORK PERFORMED WITHOUT WRITTEN AUTHORIZATION SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR AND AT NO ADDITIONAL COST TO THE OWNER.



PROJECT SITE



VICINITY MAP

IRRIGATION NOTES

- THE PROPOSED IRRIGATION SYSTEM FOR THIS SITE WILL BE DESIGNED WITH THE LATEST TECHNOLOGY IN WATER CONSERVATION AND EFFICIENCY. THE SYSTEM WILL CONSIST OF THE FOLLOWING TYPES OF IRRIGATION METHODS AND EQUIPMENT COMPLYING WITH THE STATE WATER ORDINANCE. ALL TREES, PERMANENT MITIGATION, AND ORNAMENTAL PLANTING WILL BE IRRIGATED USING BUBBLERS. THE CONTROLLER THAT WILL MANAGE THIS SYSTEM WILL BE CLOUD BASED AND USES LOCAL WEATHER TO ADJUST THE RUN TIMES OF THE VALVES BASED ON DAILY WEATHER CONDITIONS.
- QUESTION TO THE COUNTY: SHOULD TEMPORARY MITIGATION AREAS RECEIVE ANY TYPE OF IRRIGATION?

LIST OF DRAWINGS

L-1	COVER SHEET
L-2	PLANTING MITIGATION PLAN
L-3	SITE IMPROVEMENT PLAN
L-4	OVERLOOK ENLARGEMENT
L-5	TREE MITIGATION PLANTING PALETTE
L-6	CONCEPT MITIGATION PLANTING PALETTE
L-7	CONCEPT ORNAMENTAL PLANTING PALETTE
L-8	PLANTING DETAILS
L-9	PLANTING DETAILS

PLANTING NOTES

- REFER TO SPECIFICATIONS FOR SOIL PREPARATION, PLANTING, AND MAINTENANCE PERIOD REQUIREMENTS.
- CONTRACTOR TO REFER TO PLANT LIST FOR PLANT SIZE AND SPACING. USE TRIANGULAR SPACING UNLESS OTHERWISE NOTED.
- PLANT QUANTITIES ARE PROVIDED FOR CONTRACTOR'S CONVENIENCE ONLY. CONTRACTOR TO VERIFY ALL PLANT QUANTITIES SHOWN IN PLANTING PLANS.
- CONTRACTOR TO SUBMIT PLANT SAMPLES FOR APPROVAL BY LANDSCAPE ARCHITECT, SEE SPECS.
- LANDSCAPE ARCHITECT TO INSPECT PLANTING LAYOUT PRIOR TO INSTALLATION. CONTRACTOR TO PROVIDE 10' X 10' MOCKUP OF ALL PLANT MIXES FOR APPROVAL BY LANDSCAPE ARCHITECT.
- CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL UTILITIES, STRUCTURES, AND IRRIGATION LINES BEFORE DIGGING.
- GROUNDCOVERS ARE TO EXTEND UNDER TREE AND SHRUB PLANTINGS FOR FULL COVERAGE. SPACE GROUNDCOVER 18" AWAY FROM TREES AND 12" AWAY FROM SHRUBS.
- SEE GRADING PLAN FOR FINISH GRADES. ALL FINISH GRADES REFER TO FINISH GRADE OF MULCHED LANDSCAPE.
- ALL PLANTING AREAS, PLANTERS, AND POTS TO RECEIVE 3" OF MULCH, SEE SPECS.

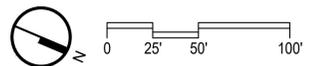
DESIGN BY			CONSTRUCTION COMPLETED: "AS BUILT" INFORMATION TO BE COMPLETED AFTER CONSTRUCTION	323 Geary St., Suite #602 San Francisco, CA 94102 T 415 861 7900 rhaa.com			COUNTY OF SONOMA DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS PHILLIP M. DEMERY, DIRECTOR	COVER SHEET	BRIDGE NUMBER	
DRAWING BY			RESIDENT ENGINEER AS BUILT DRAWINGS BY:	BIGGS CARDOSA ASSOCIATES INC STRUCTURAL ENGINEERS 865 The Alameda San Jose, California 95126 408-298-5515					BUDGET NUMBER	
CHECKED BY			DATE	BY					FISCAL YEAR	
				APPROVED					SHEET NUMBER	L-1
									TOTAL SHEETS	

BOHEMIAN HIGHWAY BRIDGE OVER THE RUSSIAN RIVER REPLACEMENT PROJECT



LEGEND

- TEMPORARY MITIGATION (LIMITS TO BE CONFIRMED)
- EX. PATHWAY
- PERMANENT MITIGATION (LIMITS TO BE CONFIRMED)
- EX. TREE



DESIGN BY	
DRAWING BY	
CHECKED BY	

REGISTERED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE
 SIGNATURE: 04/30/22
 REVIEW DATE: 04/30/22
 DATE: 12/17/2020 11:33 AM



"AS BUILT" INFORMATION TO BE COMPLETED AFTER CONSTRUCTION		CONSTRUCTION COMPLETED:	
DATE	BY	APPROVED	RESIDENT ENGINEER AS BUILT DRAWINGS BY:

323 Geary St., Suite #602
 San Francisco, CA 94102
 T 415 861 7900
 rhaa.com

BIGGS CARDOSA ASSOCIATES INC
 STRUCTURAL ENGINEERS
 865 The Alameda
 San Jose, California 95126
 408-296-5515

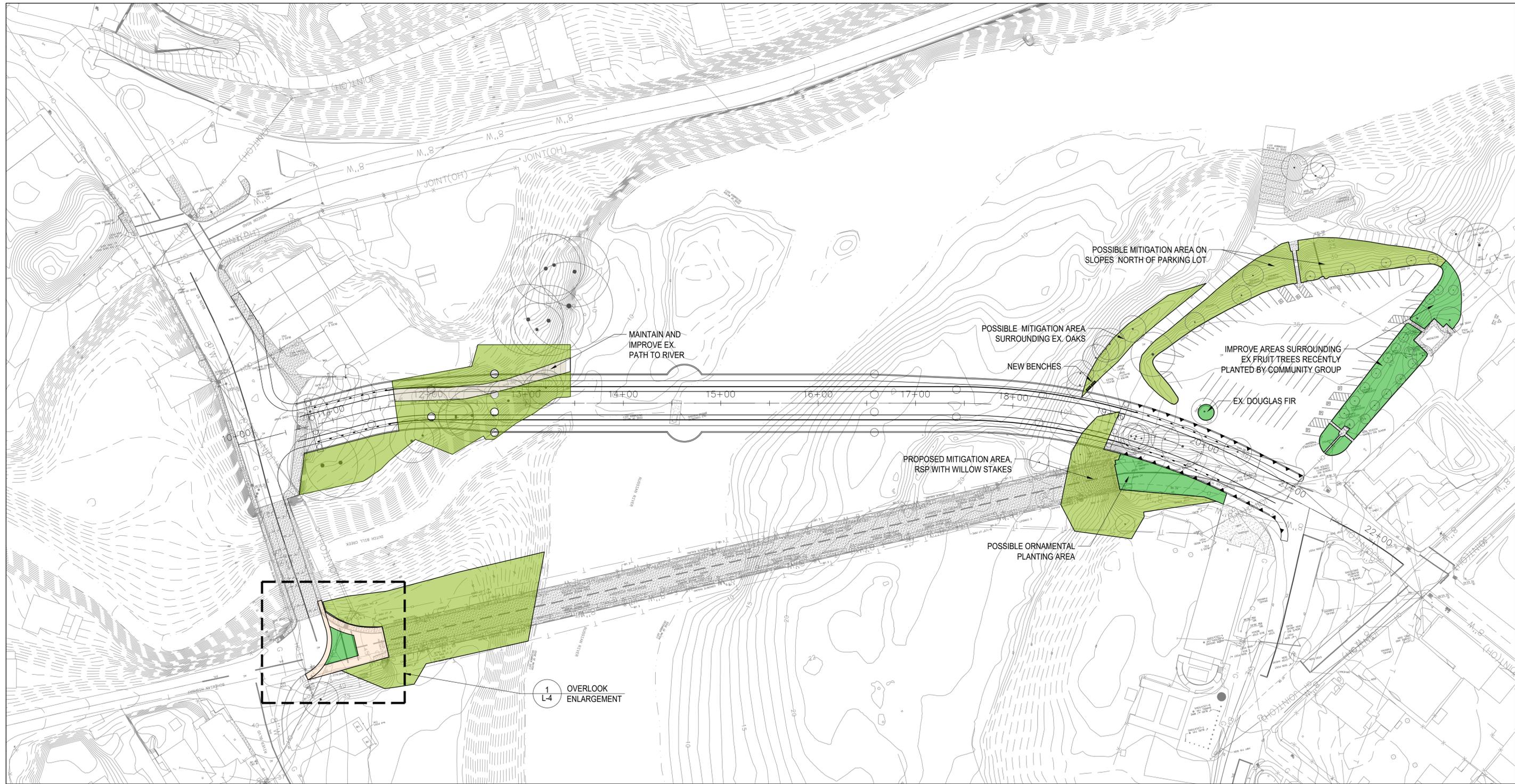


COUNTY OF SONOMA
 DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
 PHILLIP M. DEMERY, DIRECTOR

PLANTING MITIGATION PLAN

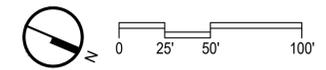
BOHEMIAN HIGHWAY BRIDGE OVER THE RUSSIAN RIVER REPLACEMENT PROJECT

BRIDGE NUMBER	
BUDGET NUMBER	
FISCAL YEAR	
SHEET NUMBER	L-2
TOTAL SHEETS	



LEGEND

	MITIGATION PLANTING (LIMITS TO BE CONFIRMED)		PATHWAYS
	ORNAMENTAL PLANTING		PROPOSED OVERLOOK
	EX. TREE		

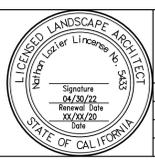


DESIGN BY	
DRAWING BY	
CHECKED BY	

REGISTERED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE: 04/30/22
 SIGNATURE: [Signature]
 REVIEW DATE: 04/30/22
 TITLE: [Title]

S: VACTIVE JOBS MONTE RIO BRIDGE REPLACEMENT
 18005A AND RHAA PLOT L-3 - SITE IMPROVEMENT
 PLAN, DWG 12/17/2020 11:33 AM



CONSTRUCTION COMPLETED:

"AS BUILT" INFORMATION TO BE COMPLETED AFTER CONSTRUCTION

DATE	BY	APPROVED

RESIDENT ENGINEER AS BUILT DRAWINGS BY:

323 Geary St., Suite #602
 San Francisco, CA 94102
 T 415 861 7900
 rhaa.com

BIGGS CARDOSA ASSOCIATES INC
 STRUCTURAL ENGINEERS
 865 The Alameda
 San Jose, California 95126
 408-296-5515



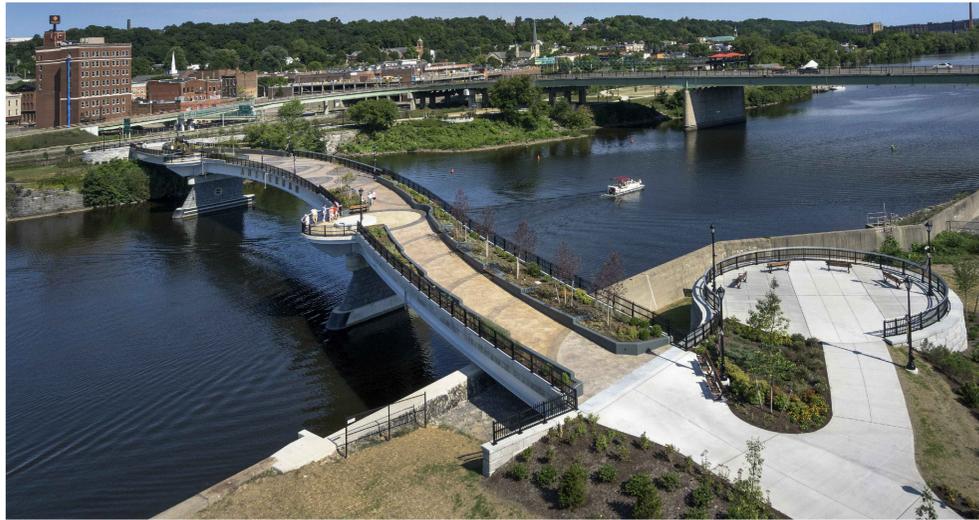
COUNTY OF SONOMA
 DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
 PHILLIP M. DEMERY, DIRECTOR

SITE IMPROVEMENT PLAN

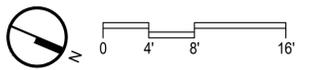
BOHEMIAN HIGHWAY BRIDGE OVER THE RUSSIAN RIVER REPLACEMENT PROJECT

BRIDGE NUMBER	
BUDGET NUMBER	
FISCAL YEAR	
SHEET NUMBER	L-3
TOTAL SHEETS	

OVERLOOK PRECEDENTS



1 OVERLOOK ENLARGEMENT



DESIGN BY	
DRAWING BY	
CHECKED BY	



REGISTERED LANDSCAPE ARCHITECT	
PLANS APPROVAL DATE	12/17/2020 11:33 AM
S: VACTIVE JOBS MONTE RIO BRIDGE REPLACEMENT 18005ANCAVRHAA PLOT L-4 - OVERLOOK ENLARGEMENT, D	
CONSTRUCTION COMPLETED:	
RESIDENT ENGINEER AS BUILT DRAWINGS BY:	
DATE	BY
	APPROVED

323 Geary St., Suite #602
San Francisco, CA 94102
T 415 861 7900
rhaa.com

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STRUCTURAL ENGINEERS
865 The Alameda
San Jose, California 95126
408-296-5515



COUNTY OF SONOMA
DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
PHILLIP M. DEMERY, DIRECTOR

OVERLOOK ENLARGEMENT	BRIDGE NUMBER
BOHEMIAN HIGHWAY BRIDGE OVER THE RUSSIAN RIVER REPLACEMENT PROJECT	BUDGET NUMBER
	FISCAL YEAR
	SHEET NUMBER
	TOTAL SHEETS



ACMISPON GLABER
DEERWEED



ARTEMISIA DOUGLASIANA
MUGWORT



CAREX UTRICULATA
BEAKED SEDGE



ELYMUS GLAUCUS SSP. GLAUCUS
BLUE WILD RYE



ELYMUS TRITICOIDES
BEARDLESS WILD RYE



ERIGERON CANADENSIS
CANADA HORSEWEED



HELIANTHUS ANNUUS
COMMON SUNFLOWER



MATRICARIA DISCOIDEA
PINEAPPLE WEED



PHYLA NODIFLORA
COMMON LIPPIA



SCROPHULARIA CALIFORNICA
CALIFORNIA FIGWORT



XANTHIUM STRUMARIUM
COCKLEBUR



VITIS CALIFORNICA
CALIFORNICA GRAPE

DESIGN BY			CONSTRUCTION COMPLETED:	323 Geary St., Suite #602 San Francisco, CA 94102 T 415 861 7900 rhaa.com			BRIDGE NUMBER	
DRAWING BY	REGISTERED LANDSCAPE ARCHITECT		"AS BUILT" INFORMATION TO BE COMPLETED AFTER CONSTRUCTION	RESIDENT ENGINEER AS BUILT DRAWINGS BY:			BUDGET NUMBER	
CHECKED BY	PLANS APPROVAL DATE: 04/30/22 SIGNATURE: [Signature] REVISION: 06/20/22 DATE: 12/17/2020 11:34 AM		DATE	BY			APPROVED	FISCAL YEAR
BOHEMIAN HIGHWAY BRIDGE OVER THE RUSSIAN RIVER REPLACEMENT PROJECT							SHEET NUMBER	L-6
							TOTAL SHEETS	



CALYCANTHUS OCCIDENTALIS
SPICEBUSH



LONICERA INVOLUCRATE
TWINBERRY



ROSA CALIFORNICA
CALIFORNIA ROSE



SYMPHORICARPOS SPP.
SNOWBERRY



SAMBUCUS MEXICANA
BLUE ELDERBERRY



CEPHALANTHUS OCCIDENTALIS
BUTTON-WILLOW



ATHYRIUM FILIX-FEMINA
LADY FERN



CAREX COMOSA
BISTLY SEDGE



EPILOBIUM SPP.
WILLOW HERBS



EQUISETUM HYEMALE
HORSETAIL



JUNCUS SPP.
RUSH



MIMULUS GUTTATUS
MONKEYFLOWER



OENANTHE SARMENTOSA
CREEK PARSLEY

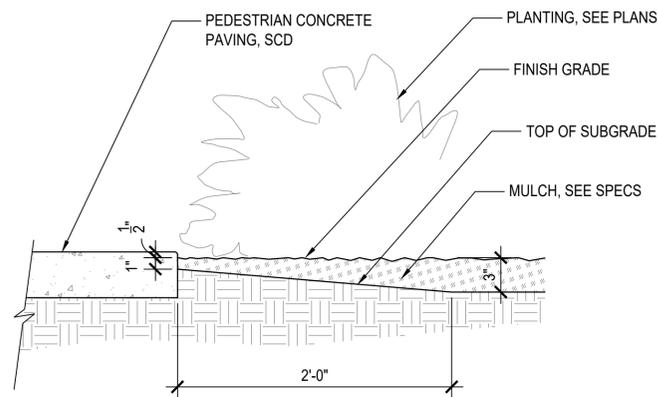


SISYRINCHIUM CALIFORNICUM
YELLOW-EYED GRASS

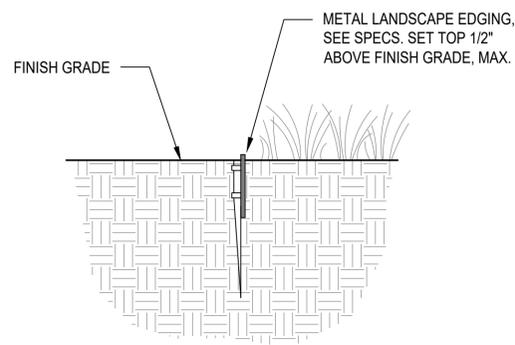


CLEMATIS LASIANTHA
CLEMATIS

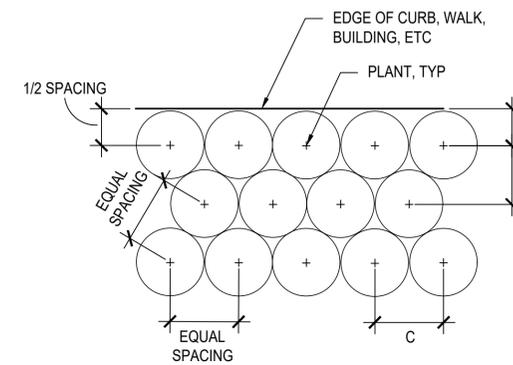
DESIGN BY			CONSTRUCTION COMPLETED:	323 Geary St., Suite #602 San Francisco, CA 94102 T 415 861 7900 rhaa.com			COUNTY OF SONOMA DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS PHILLIP M. DEMERY, DIRECTOR	CONCEPT ORNAMENTAL PLANTING PALETTE	BRIDGE NUMBER
DRAWING BY	REGISTERED LANDSCAPE ARCHITECT		"AS BUILT" INFORMATION TO BE COMPLETED AFTER CONSTRUCTION	RESIDENT ENGINEER AS BUILT DRAWINGS BY:				BUDGET NUMBER	
CHECKED BY	PLANS APPROVAL DATE: 12/17/2020 11:34 AM S: VACTIVE, JOBS: MONTE RIO BRIDGE REPLACEMENT 1800 SAN XAVIER RHAAS PLOT L-7 - CONCEPT ORNAMENTAL PLANTING PALETTE, DWG		DATE	BY				APPROVED	FISCAL YEAR



5 MULCH AT CONCRETE PAVING
SCALE: 1-1/2" = 1'-0"



3 METAL LANDSCAPE EDGING
SCALE: 1-1/2" = 1'-0"

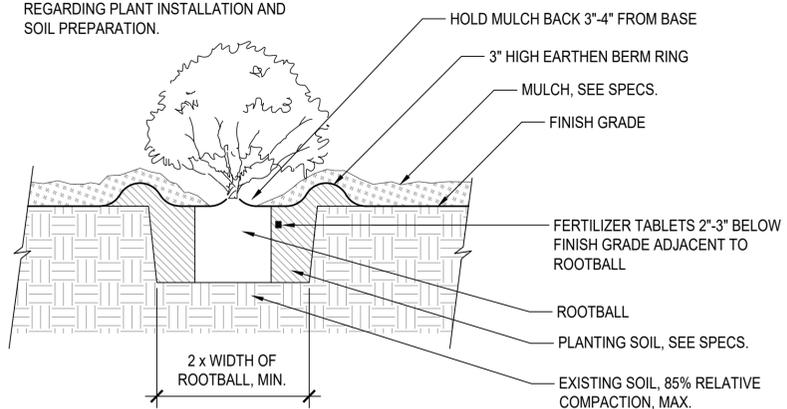


NOTES:
1. SEE PLANTING PLAN FOR SPACING BY PLANT SPECIES.
2. INSTALL TRIANGULATED PLANT LAYOUT, UNLESS OTHERWISE SHOWN ON PLANS.

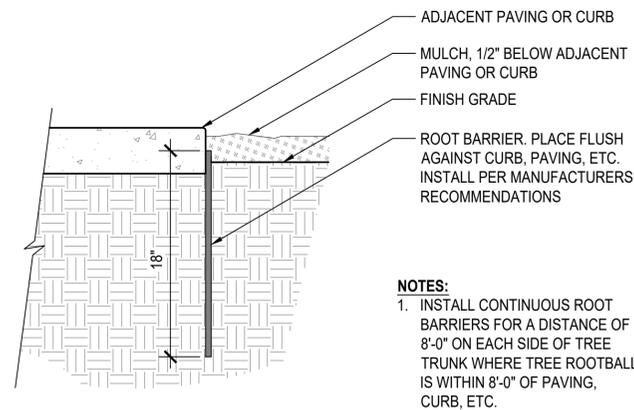
PLANT SPACING	A	B	C
12"	6"	10"	12"
1'-6"	9"	1'-4"	1'-6"
2'-0"	12"	1'-9"	2'-0"
2'-6"	1'-3"	2'-2"	2'-6"
3'-0"	1'-6"	2'-7"	3'-0"
3'-6"	1'-9"	3'-0"	3'-6"
4'-0"	2'-0"	3'-6"	4'-0"
4'-6"	2'-3"	3'-11"	4'-6"
5'-0"	2'-6"	4'-4"	5'-0"

1 PLANTING LAYOUT
NTS

NOTE:
1. SEE SPECS. FOR MORE INFORMATION REGARDING PLANT INSTALLATION AND SOIL PREPARATION.



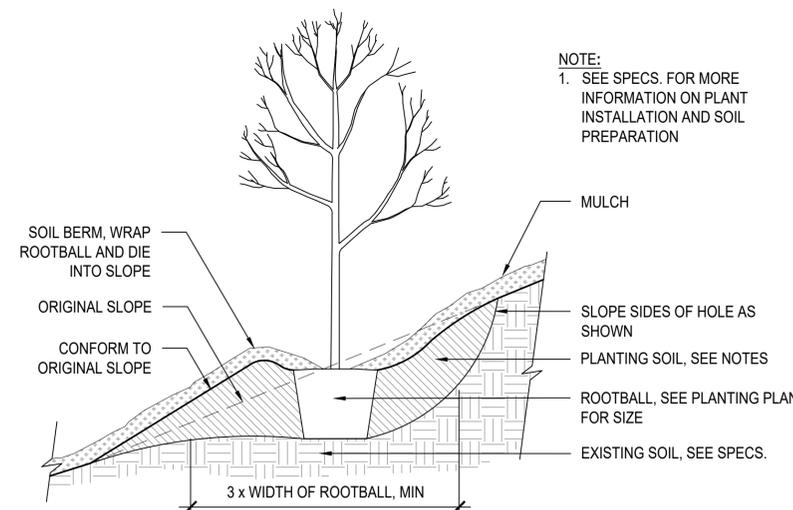
6 SHRUB PLANTING W/ BERM
SCALE: 1" = 1'-0"



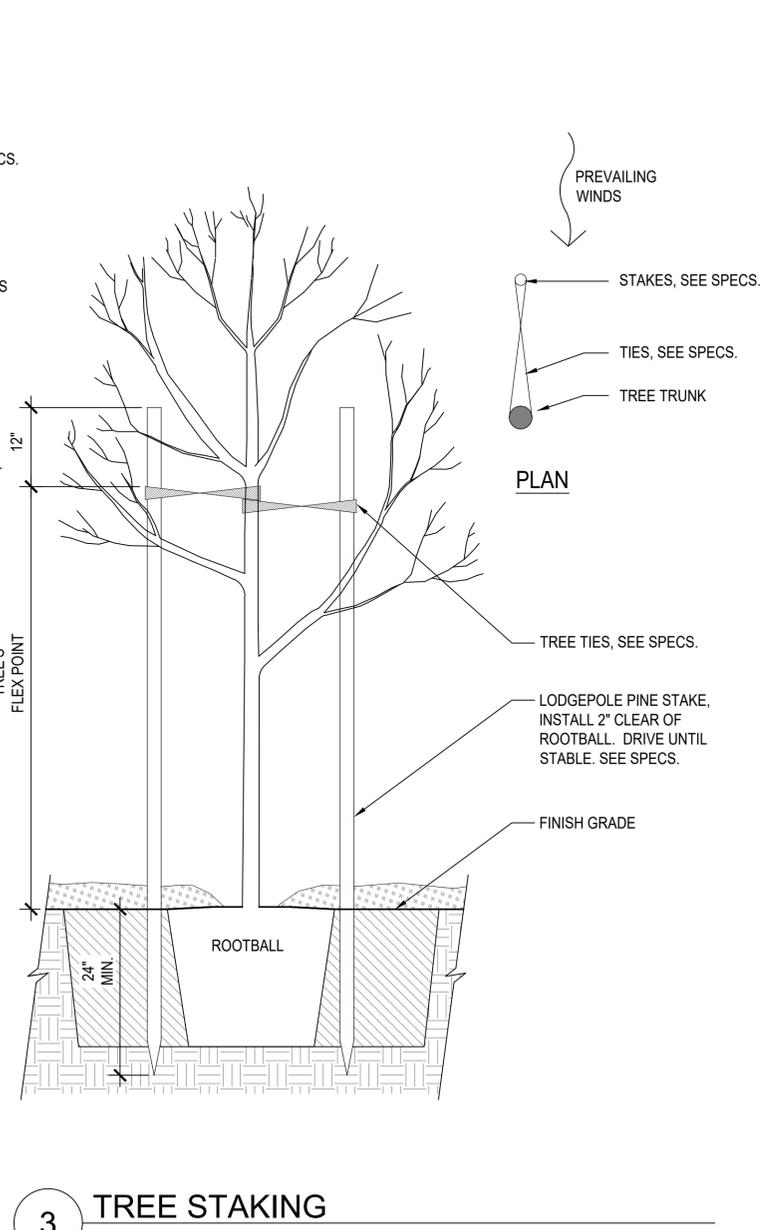
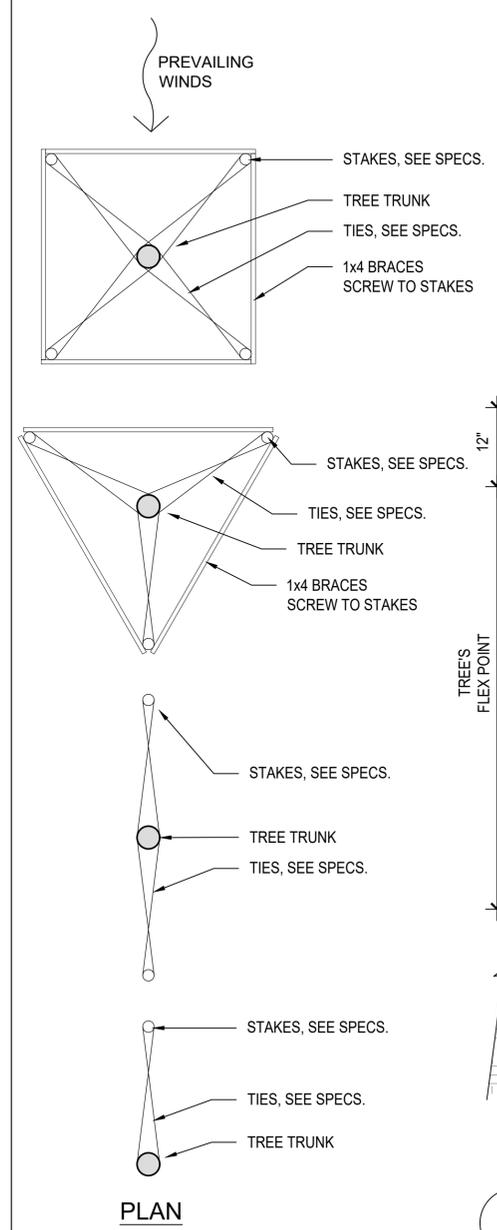
NOTES:
1. INSTALL CONTINUOUS ROOT BARRIERS FOR A DISTANCE OF 8'-0" ON EACH SIDE OF TREE TRUNK WHERE TREE ROOTBALL IS WITHIN 8'-0" OF PAVING, CURB, ETC.

4 ROOT BARRIER
SCALE: 1-1/2" = 1'-0"

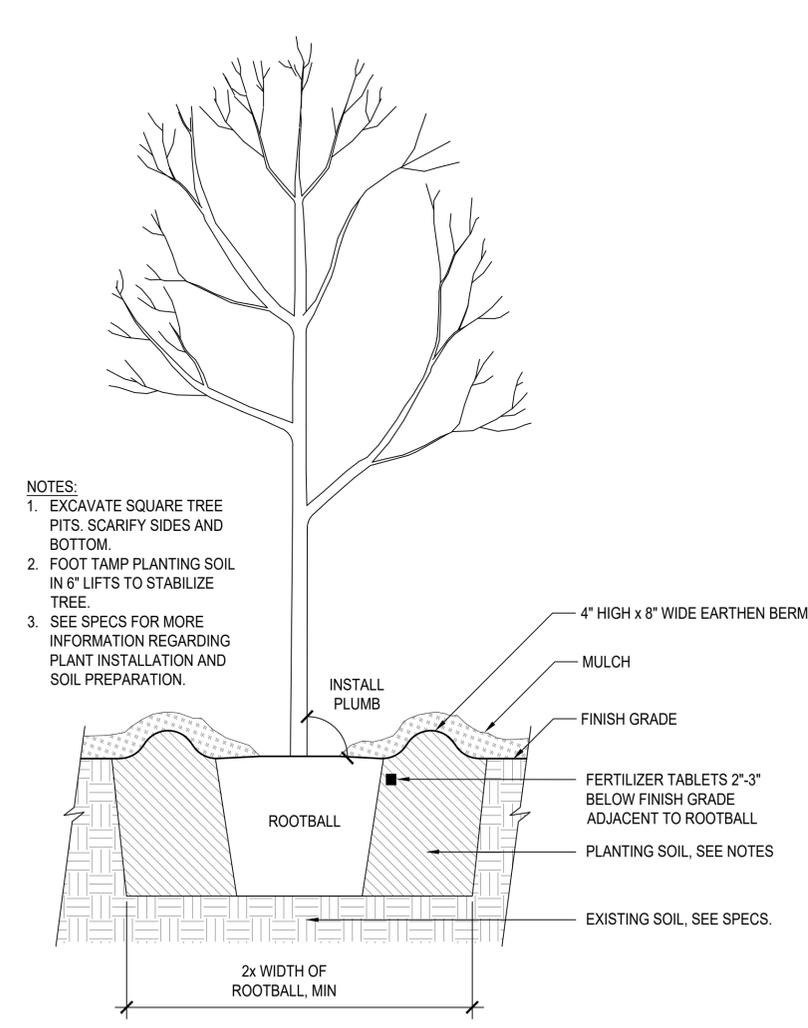
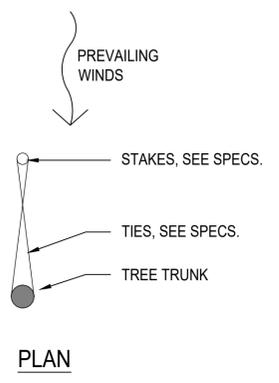
NOTE:
1. SEE SPECS. FOR MORE INFORMATION ON PLANT INSTALLATION AND SOIL PREPARATION



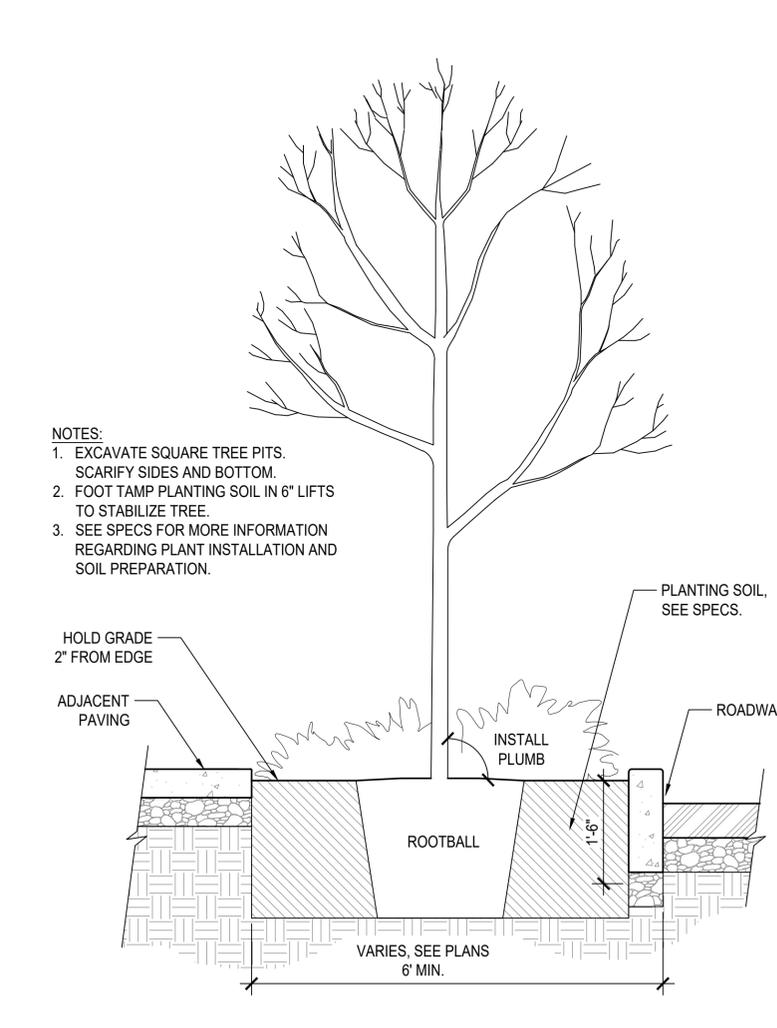
2 PLANTING ON SLOPE
NTS



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



2 TREE PLANTING WITH BERM
NTS



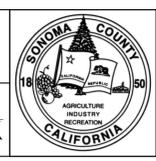
1 STREET TREE PLANTER STRIP
SCALE: 3/4" = 1'-0"

DESIGN BY	
DRAWING BY	
CHECKED BY	



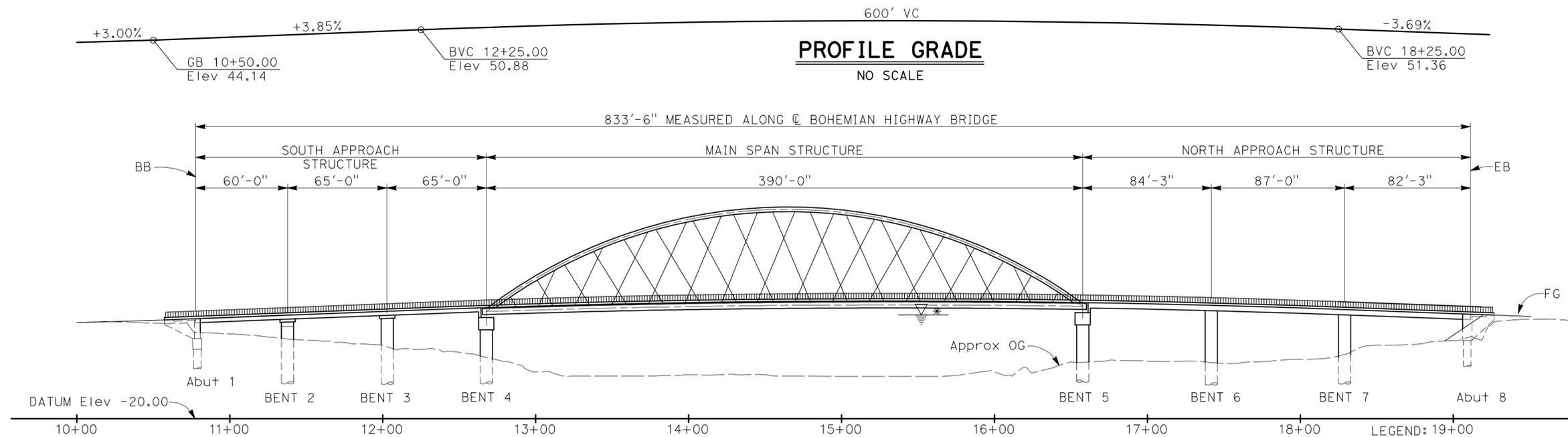
"AS BUILT" INFORMATION TO BE COMPLETED AFTER CONSTRUCTION	
DATE	BY

CONSTRUCTION COMPLETED:
RESIDENT ENGINEER AS BUILT DRAWINGS BY:
BY APPROVED



COUNTY OF SONOMA
DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
PHILLIP M. DEMERY, DIRECTOR

PLANTING DETAILS		BRIDGE NUMBER	
BOHEMIAN HIGHWAY BRIDGE OVER THE RUSSIAN RIVER REPLACEMENT PROJECT		BUDGET NUMBER	
		FISCAL YEAR	
		SHEET NUMBER	L-9
		TOTAL SHEETS	

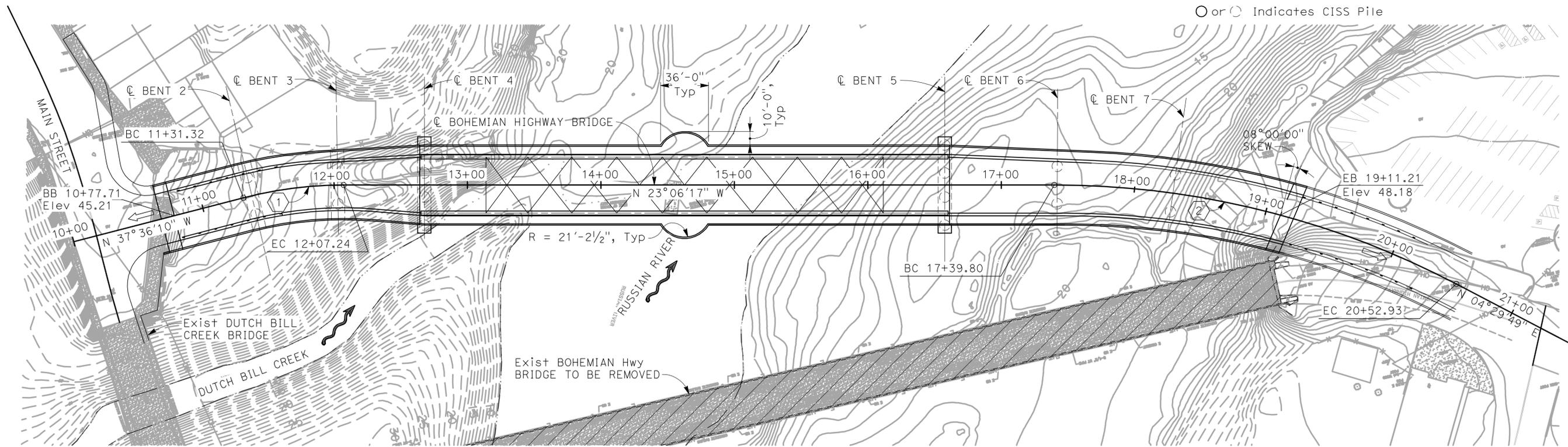


DEVELOPED ELEVATION
1" = 40'

CURVE DATA				
CURVE	R	Δ	T	L
①	300.00'	14°29'54"	38.16'	75.91'
②	650.00'	27°36'06"	159.66'	313.13'

* See Hydrologic Summary on "FOUNDATION PLAN" sheet.

- LEGEND: 19+00
- Indicates Bridge Removal
 - Indicates Existing Structure
 - Indicates LOW Flow Line
 - Indicates Traffic Direction
 - Indicates Flow Direction
 - Indicates CISS Pile



PLAN
1" = 40'



PLAN CHECK SET/ NOT FOR CONSTRUCTION (12/18/20)

DESIGN BY	JDV	
DRAWING BY	SMH	
CHECKED BY		

REGISTERED STRUCTURAL ENGINEER
PLANS APPROVAL DATE

W:\2017\2017327\2017327S1.DWG 12/18/2020 3:04 PM

CONSTRUCTION COMPLETED:	
DATE	BY

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS
865 The Alameda
San Jose, California 95128
408-296-5515

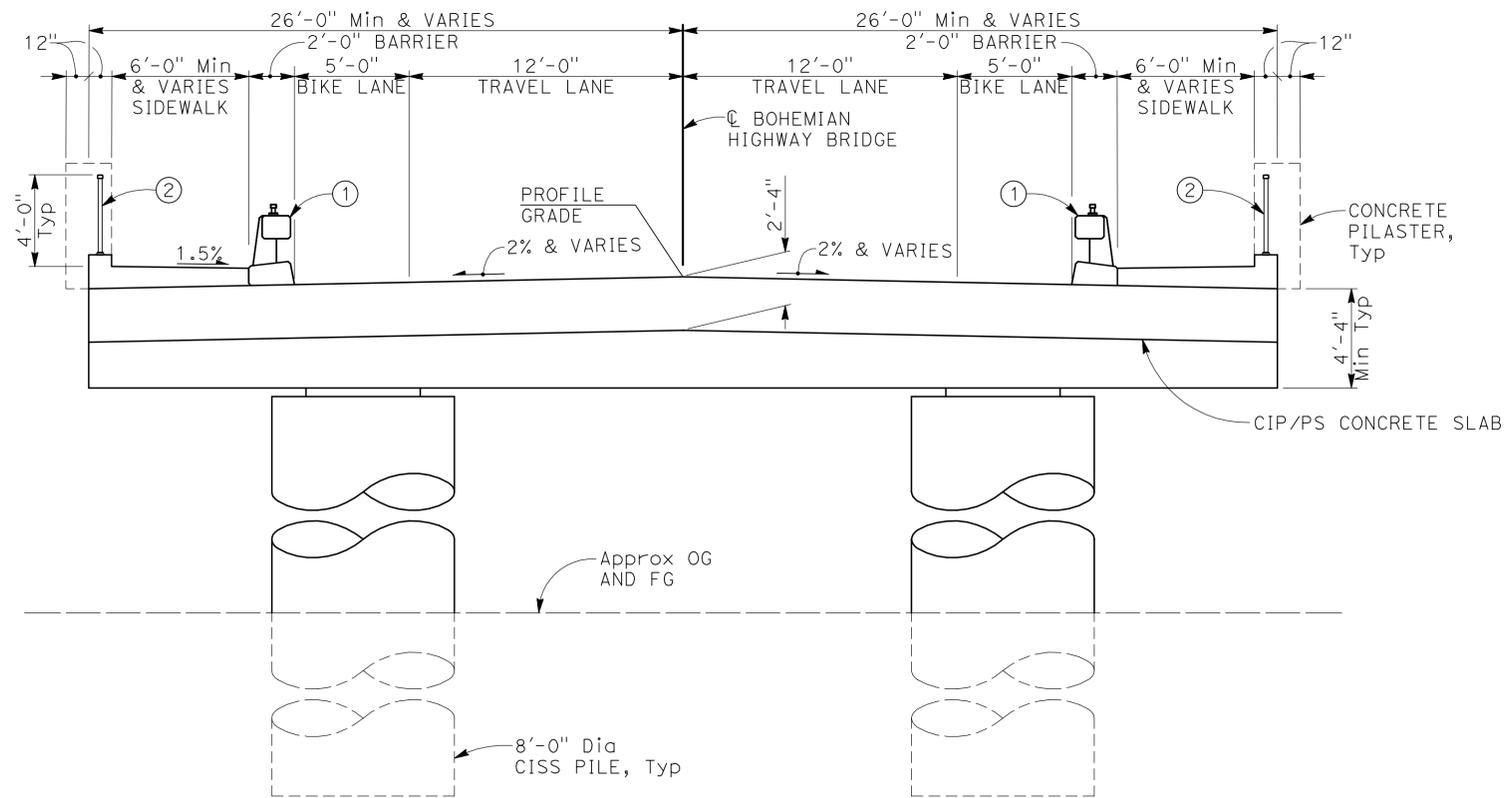


COUNTY OF SONOMA
DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
JOHANNES J. HOEVERTSZ, P.E. DIRECTOR

GENERAL PLAN No. 1	
ROAD NUMBER	
BUDGET NUMBER	
FISCAL YEAR	
SHEET NUMBER	S1
TOTAL SHEETS	

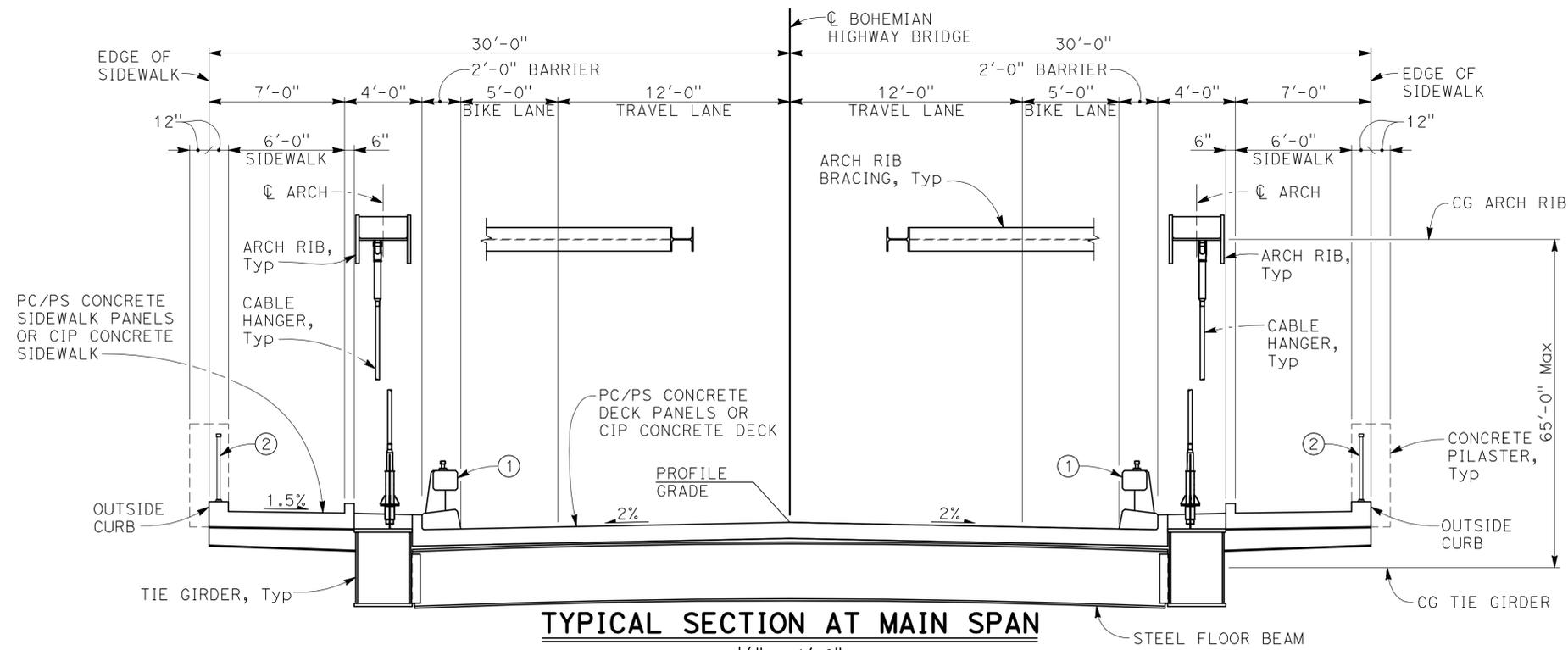
BOHEMIAN HIGHWAY BRIDGE OVER THE RUSSIAN RIVER REPLACEMENT PROJECT

2017327S1



TYPICAL SECTION AT SOUTH APPROACH

1/4" = 1'-0"



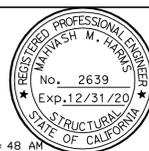
TYPICAL SECTION AT MAIN SPAN

1/4" = 1'-0"

- NOTES:
 ① MASH Rated Concrete Barrier
 ② Steel pedestrian railing

PLAN CHECK SET/ NOT FOR CONSTRUCTION (12/15/20)

DESIGN BY	JDV	REGISTERED STRUCTURAL ENGINEER
DRAWING BY	AR	PLANS APPROVAL DATE
CHECKED BY		



CONSTRUCTION COMPLETED:	
RESIDENT ENGINEER AS BUILT DRAWINGS BY:	
DATE	BY
	APPROVED

BIGGS CARDOSA ASSOCIATES INC
 STRUCTURAL ENGINEERS
 865 The Alameda
 San Jose, California 95128
 408-296-5515

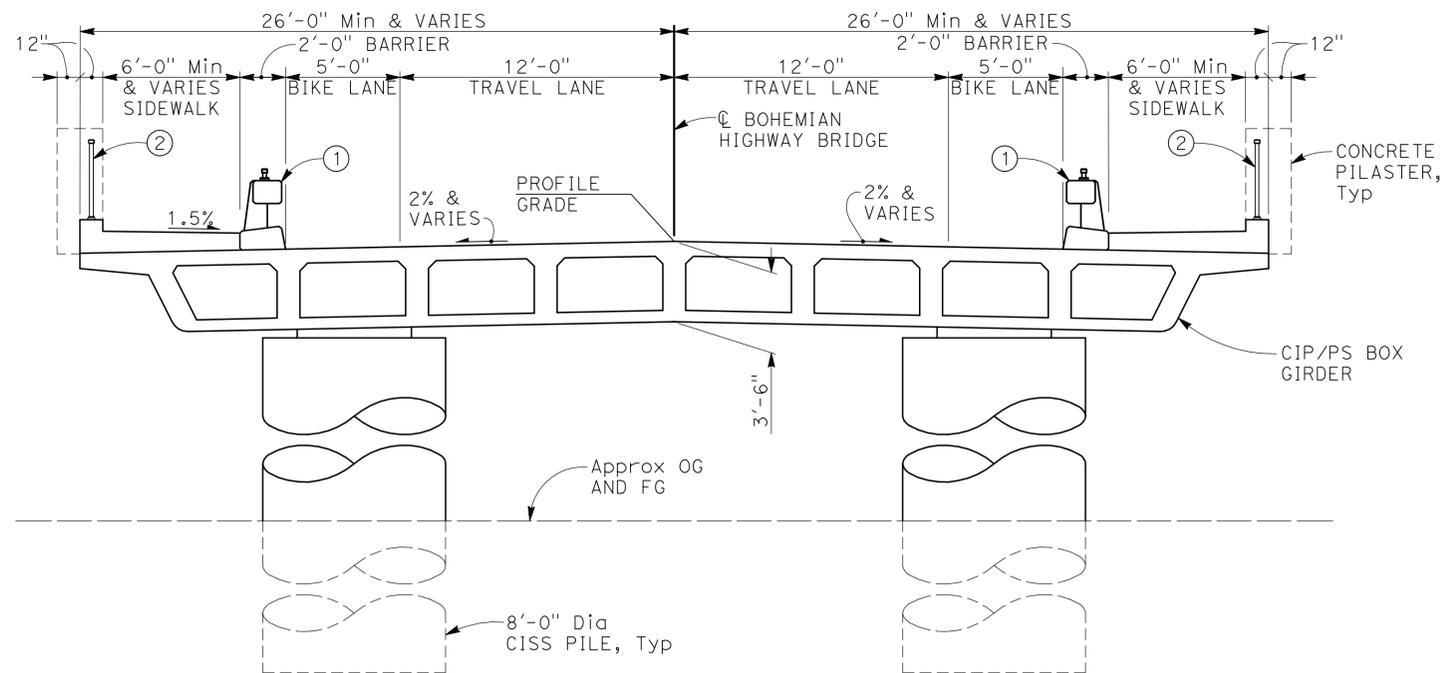


COUNTY OF SONOMA
 DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
 JOHANNES J. HOEVERTSZ, P.E. DIRECTOR

GENERAL PLAN No. 2		ROAD NUMBER	
		BUDGET NUMBER	
		FISCAL YEAR	
		SHEET NUMBER	S2
		TOTAL SHEETS	

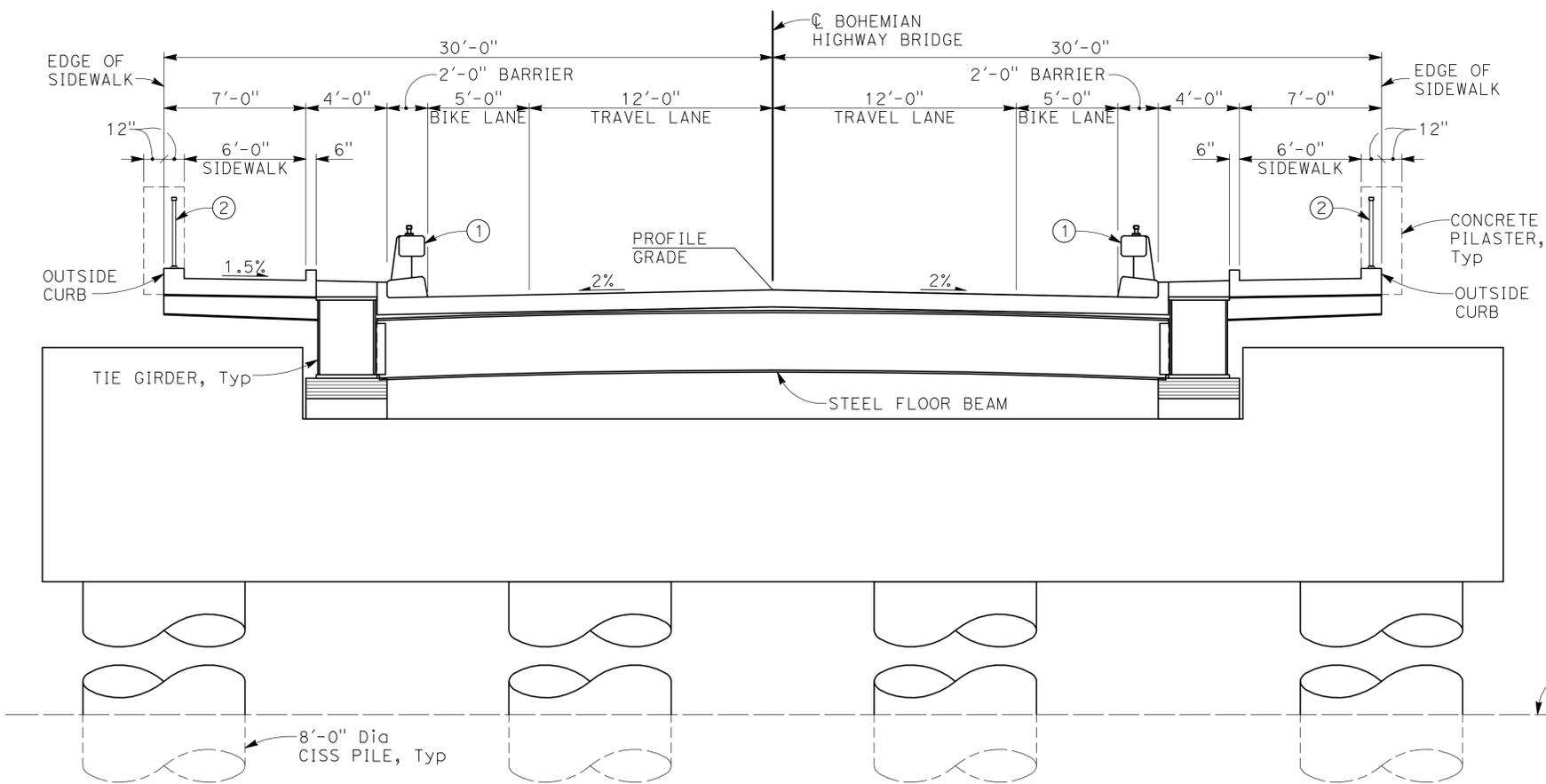
BOHEMIAN HIGHWAY BRIDGE OVER THE RUSSIAN RIVER REPLACEMENT PROJECT

201132752



TYPICAL SECTION AT NORTH APPROACH

1/4" = 1'-0"



TYPICAL SECTION AT BENT 4 AND BENT 5

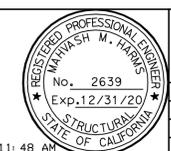
1/4" = 1'-0"

NOTES:

- ① MASH Rated Concrete Barrier
- ② Steel pedestrian railing

PLAN CHECK SET/ NOT FOR CONSTRUCTION (12/17/20)

DESIGN BY	JDV
DRAWING BY	AR
CHECKED BY	



"AS BUILT" INFORMATION TO BE COMPLETED AFTER CONSTRUCTION	
DATE	BY

CONSTRUCTION COMPLETED:
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 San Jose, California 95128
 408-296-5515

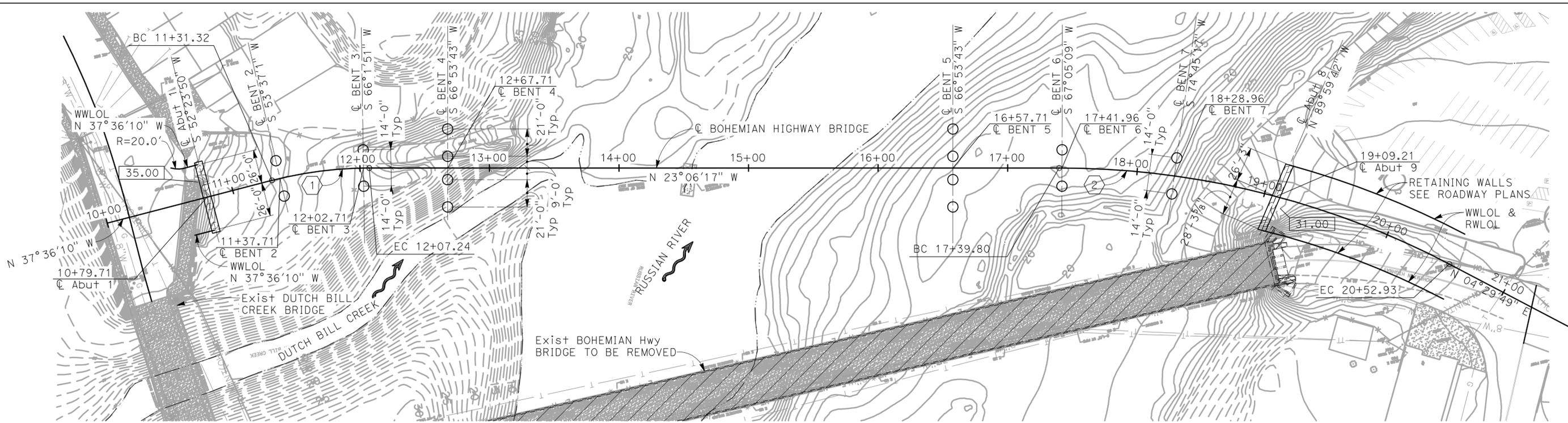


COUNTY OF SONOMA
 DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
 JOHANNES J. HOEVERTSZ, P.E. DIRECTOR

GENERAL PLAN No. 3		ROAD NUMBER	
		BUDGET NUMBER	
		FISCAL YEAR	
		SHEET NUMBER	S3
		TOTAL SHEETS	

BOHEMIAN HIGHWAY BRIDGE OVER THE RUSSIAN RIVER REPLACEMENT PROJECT

201132753



CURVE DATA				
CURVE	R	Δ	T	L
①	300.00'	14°29'54"	38.16'	75.91'
②	650.00'	27°36'06"	159.66'	313.13'

FOUNDATION PLAN
1" = 40'

- NOTES:
- Contour interval is 1'-0"
 - Utilities shown are for illustrative purposes only, not all utilities shown. Verify utility locations and whether they are to be relocated, abandoned, etc, with Road Plans.
 - For property delineations and descriptions, see Road Plans.

Hydrologic Summary for Bridge No. xx-xxxx (Design Hydraulics Study by WRECO)		
Drainage Area: 1390 mi ²		
Frequency	Design Flood	Base Flood
	50-year	100-year
Discharge	98,000 cfs	107,000 cfs
Water Surface Elevation at Bridge	45.9 ft	47.6 ft

Floodplain data are based upon information available when the plans were prepared and are shown to meet federal requirements. The accuracy of said information is not warranted by Biggs Cardosa Associates and interested or affected parties should make their own investigation.

BENCH MARK AND DATUM				
MONUMENT	COORDINATES		Elev (NAVD 88)	DESCRIPTION/LOCATION
	NORTHING	EASTING		
Pt 1	-	-	40.12	MAG NAIL & WASHER, SET IN CONCRETE AT THE SOUTHEAST CORNER OF BOHEMIAN HWY AND D STREET.

Note: Elevation is based on NAVD 88 by GPS observations utilizing the California Survey & Drafting Supply VSN.

PILE DATA TABLE						
LOCATION	PILE TYPE	NOMINAL RESISTANCE (kips)		CUT-OFF ELEVATION (ft)	DESIGN TIP ELEVATION (ft)	SPECIFIED TIP ELEVATION (ft)
		COMPRESSION	TENSION			
Abut 1	60" CISS	-	-	-	-	-
BENT 2	96" CISS	-	-	-	-	-
BENT 3	96" CISS	-	-	-	-	-
BENT 4	96" CISS	-	-	-	-	-
BENT 5	96" CISS	-	-	-	-	-
BENT 6	96" CISS	-	-	-	-	-
BENT 7	96" CISS	-	-	-	-	-
Abut 8	60" CISS	-	-	-	-	-

- Notes:
- Design tip elevations for Abutments and Bents are controlled by: (a) Compression; (b) Tension; (c) Lateral Load.
 - Tip Elevation shall not be raised above specified Tip Elevation.

SCOUR DATA TABLE		
SUPPORT No.	LONG TERM (DEGRADATION AND CONTRACTION SCOUR ELEVATION (ft))	SHORT TERM (LOCAL) SCOUR DEPTH (ft)
Abut 1	N/A	N/A
BENT 2	11.8	7.8
BENT 3	-18.4	8.1
BENT 4	-18.4	15.2
BENT 5	-18.4	16.1
BENT 6	-0.6	13.5
BENT 7	-0.6	19.7
Abut 8	N/A	N/A

- LEGEND:
- Indicates Bridge Removal
 - Indicates Existing Structure
 - Indicates LOW Flow Line
 - Indicates Flow Direction
 - Indicates Bottom of Footing Elevation
 - 16.540 Indicates existing spot elevations
 - or ○ Indicates CISS Pile

PLAN CHECK SET/ NOT FOR CONSTRUCTION (12/15/20)

DESIGN BY JDV	REGISTERED STRUCTURAL ENGINEER		CONSTRUCTION COMPLETED:	BIGGS CARDOSA ASSOCIATES INC STRUCTURAL ENGINEERS 865 The Alameda San Jose, California 95128 408-296-5515			COUNTY OF SONOMA DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS JOHANNES J. HOEVERTZ, P.E. DIRECTOR	FOUNDATION PLAN	ROAD NUMBER
DRAWING BY SMH	PLANS APPROVAL DATE		RESIDENT ENGINEER AS BUILT DRAWINGS BY:					BUDGET NUMBER	
CHECKED BY			DATE					FISCAL YEAR	
W:\2017\2017327\201732754.DWG 12/17/2020 11:49 AM								SHEET NUMBER	S4
								TOTAL SHEETS	

