

COUNTY OF SANTA CLARA
ROADS AND AIRPORTS DEPARTMENT

REPLACEMENT PLANS

FOR

LLAGAS CREEK BRIDGE ON UVAS ROAD

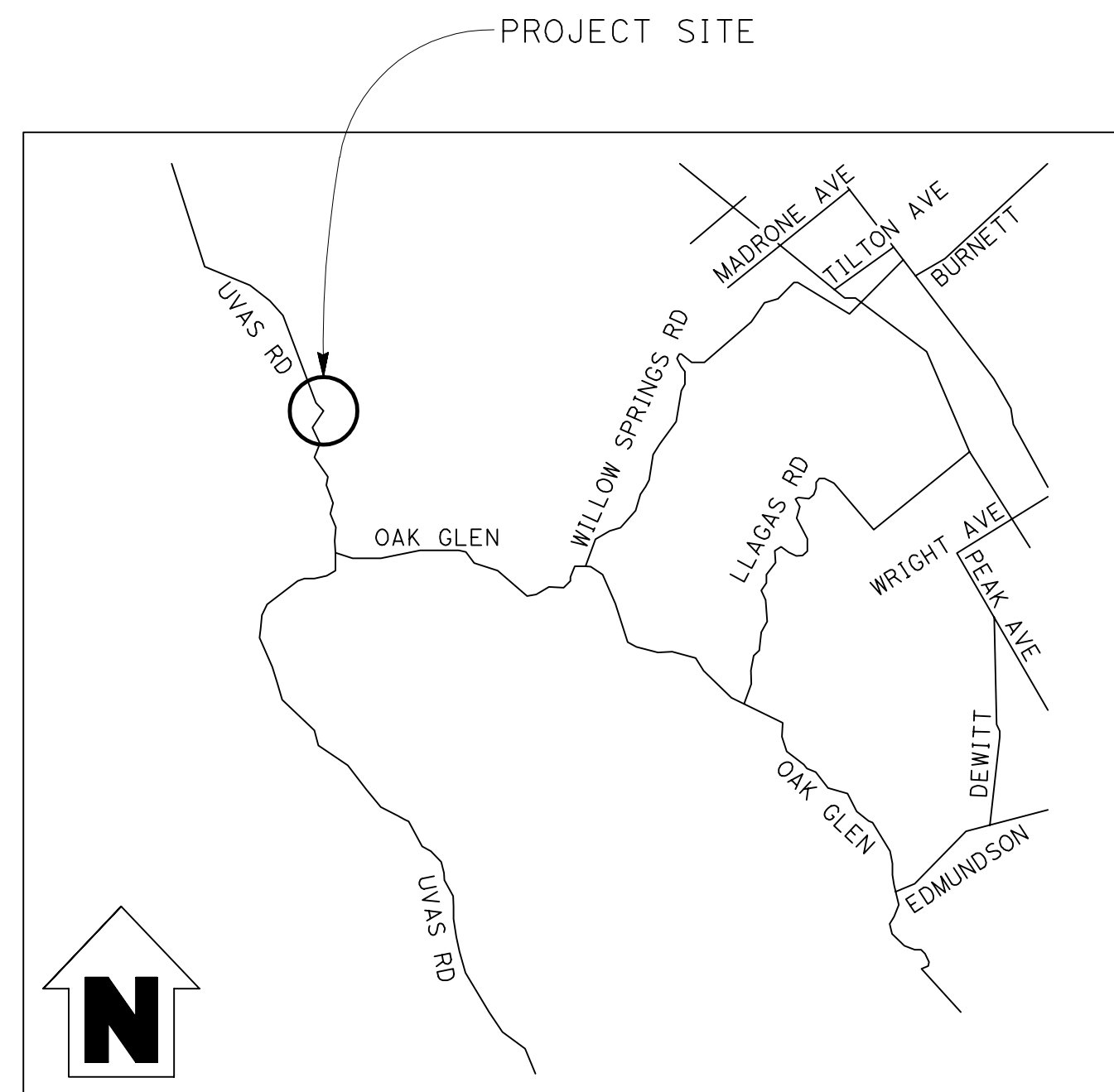
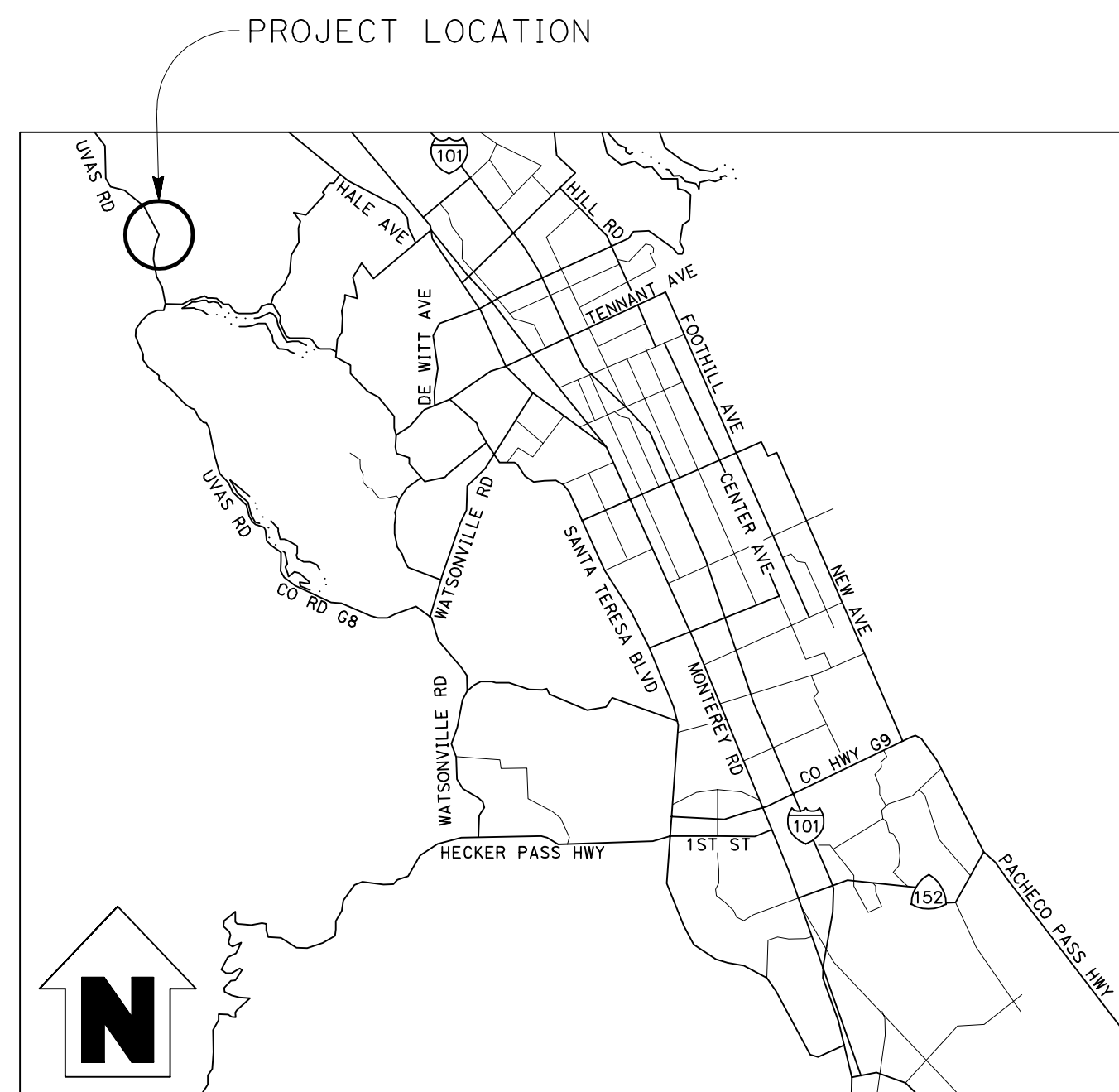
Bridge No. 37C0096 (New Bridge No. 37C0602)

FEDERAL PROJECT NUMBER BRLO-5937(106)

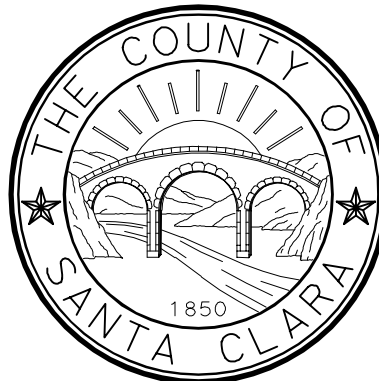
TO BE SUPPLEMENTED BY STATE STANDARD PLANS 2018

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PLAN CHECK SET/NOT FOR CONSTRUCTION (9/1/20)

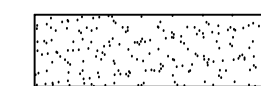
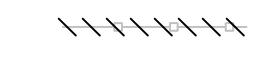
					COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT			LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT) Bridge No. 37C0096 (New Bridge No. 37C0602)				DRAWING NO. T-1			
					APPROVAL: HARRY FREITAS Director			TITLE SHEET				SHEET NO. 1 of 38			
B	95% DESIGN SUBMITTAL	NAV	9/1/20	CV	NAV DESIGNED JCL DRAWN CV CHECKED			DATE 9/1/2020			WORK ORDER No.	ADVERTISEMENT DATE	CONTRACT NO.	FILE No.	Scale
A	65% PRELIMINARY DESIGN SUBMITTAL	SOO	2/25/13	CV											
NO.	REVISIONS	BY	DATE	APP'D											

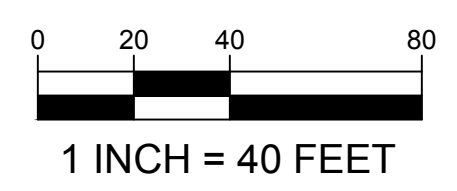
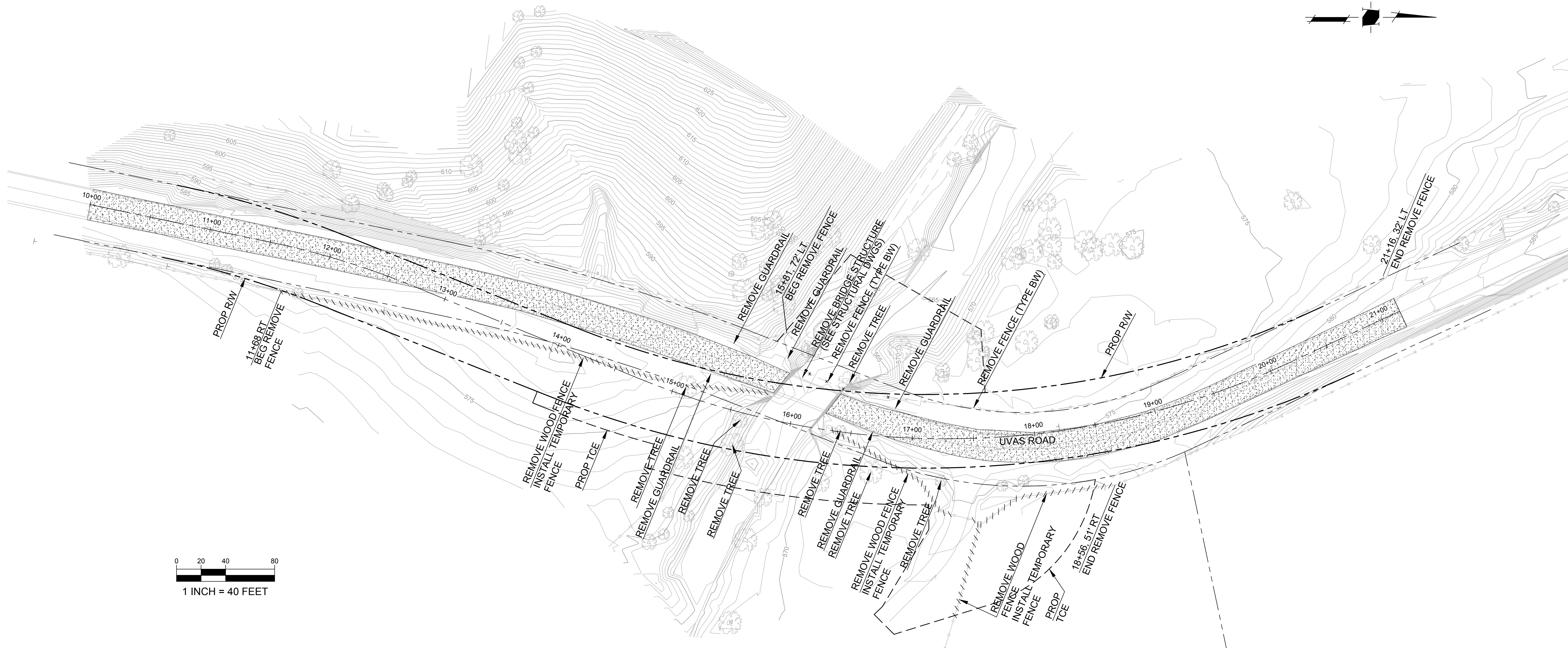
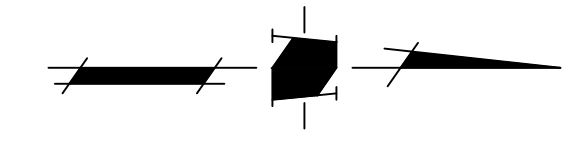
2008149

ABBREVIATIONS

BW BARBED WIRE
 MBGR METAL BEAM GUARDRAIL

LEGEND

 REMOVE PAVEMENT AND BASE
 REMOVE FENCE



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COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

DESIGNED: **JLS**
 DRAWN: **SL**
 CHECKED:

DATE:
 DATE:
 DATE:

WORK ORDER: **R6239**
 LEVEL BOOK:
 TRANSIT BOOK:



SUBMITTED BY: **LINDA M. GREVERA**
 Civil Engineer

APPROVAL BY: **HARRY FREITAS**
 DIRECTOR

LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
 BRIDGE No. 37C-0096

DEMOLITION PLAN

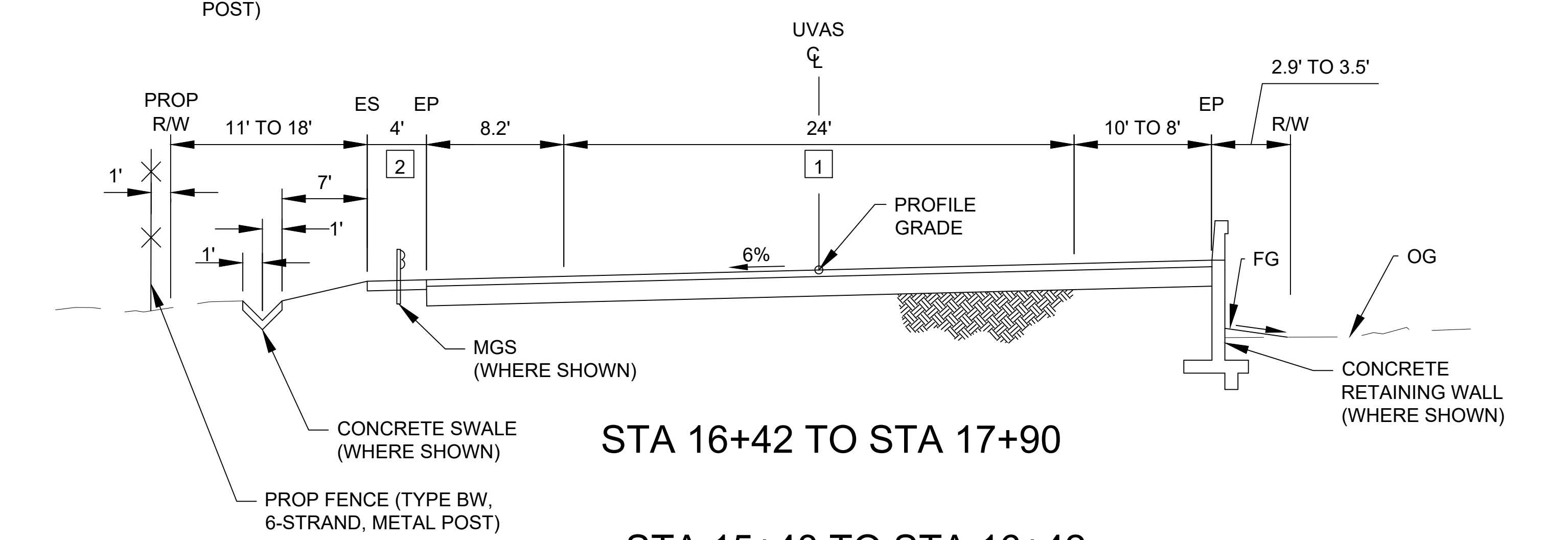
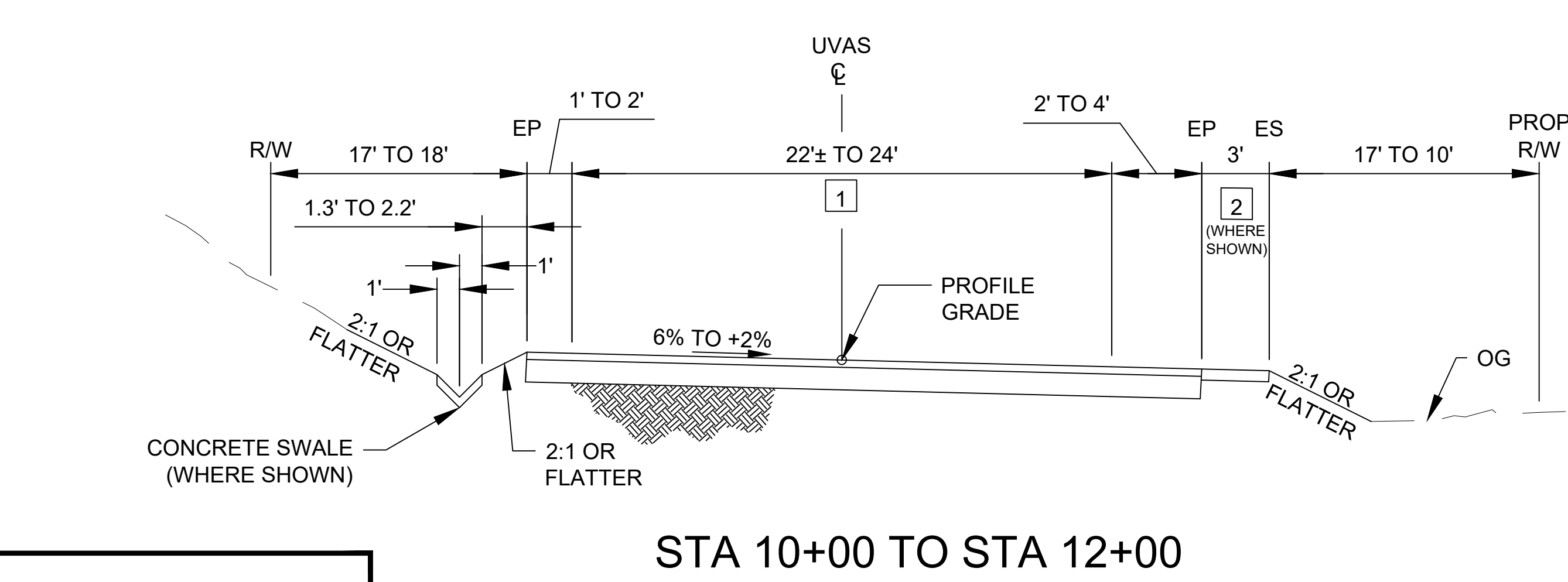
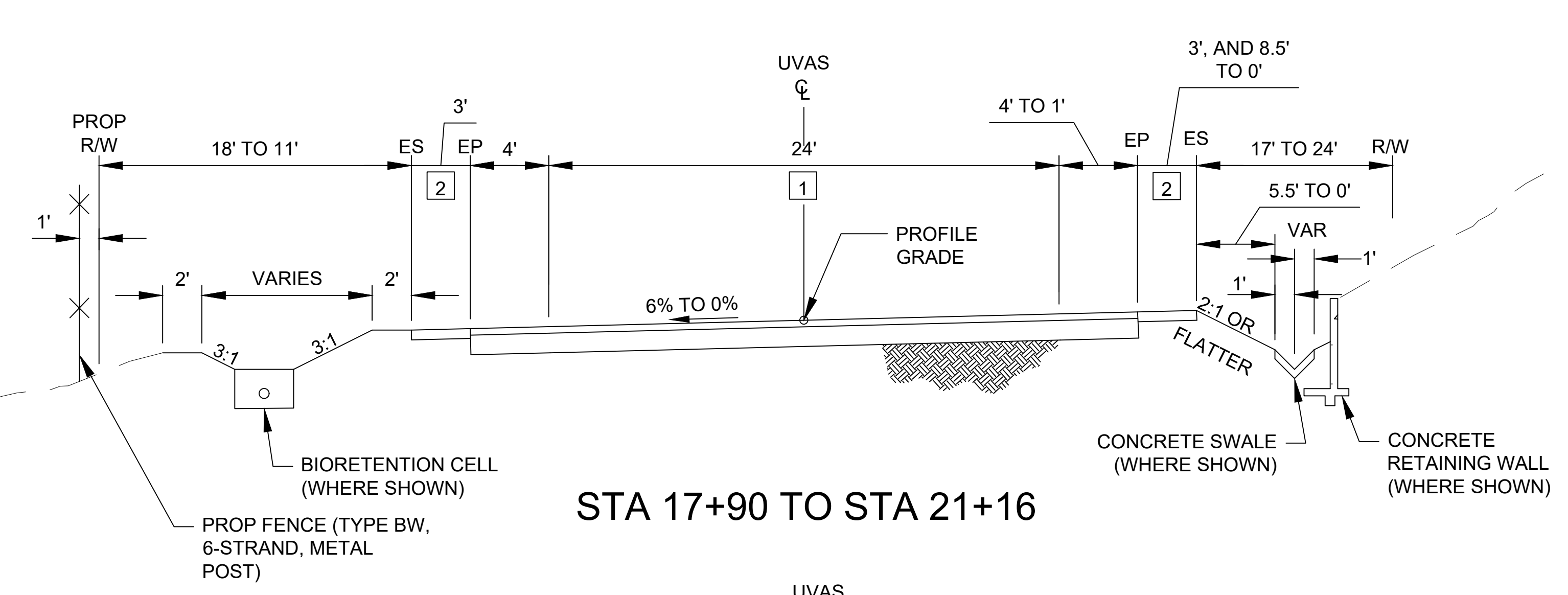
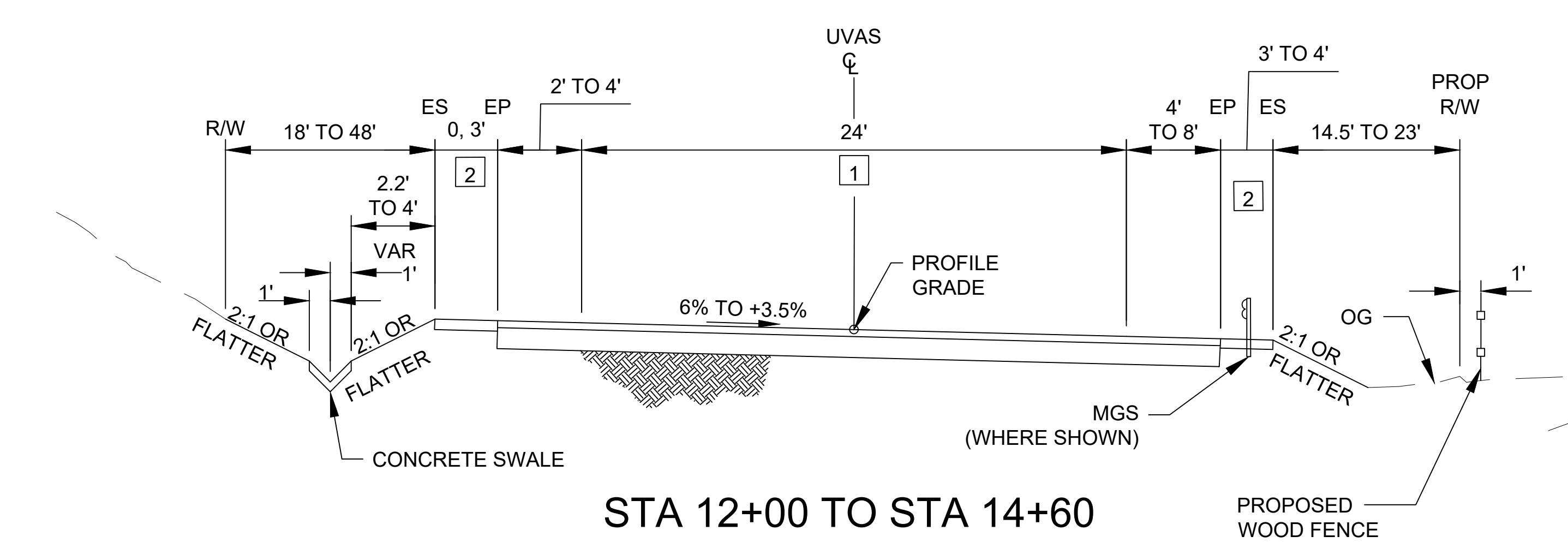
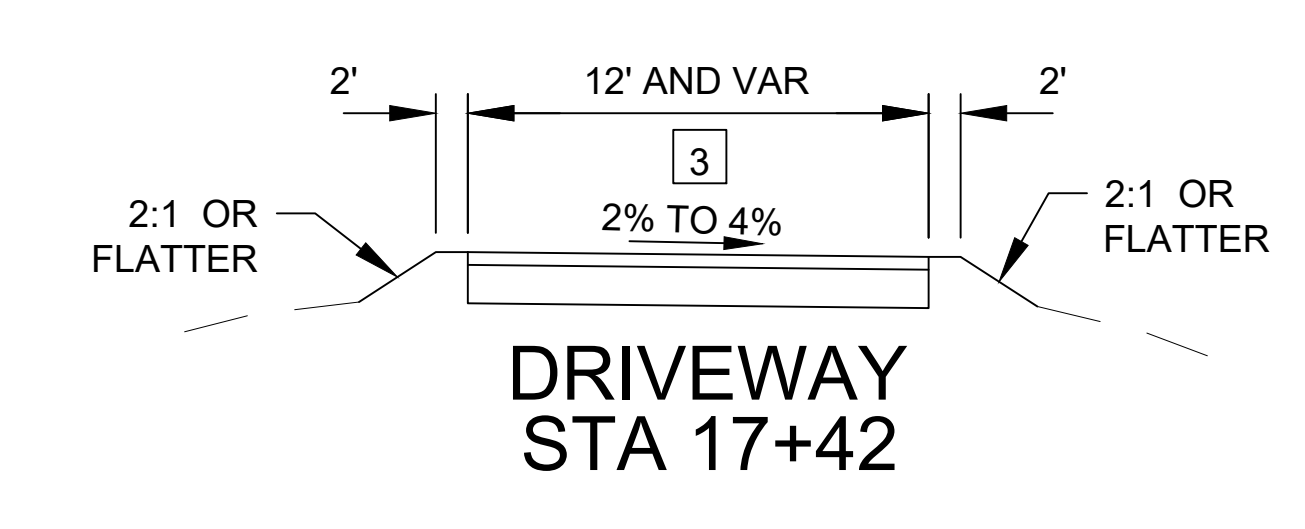
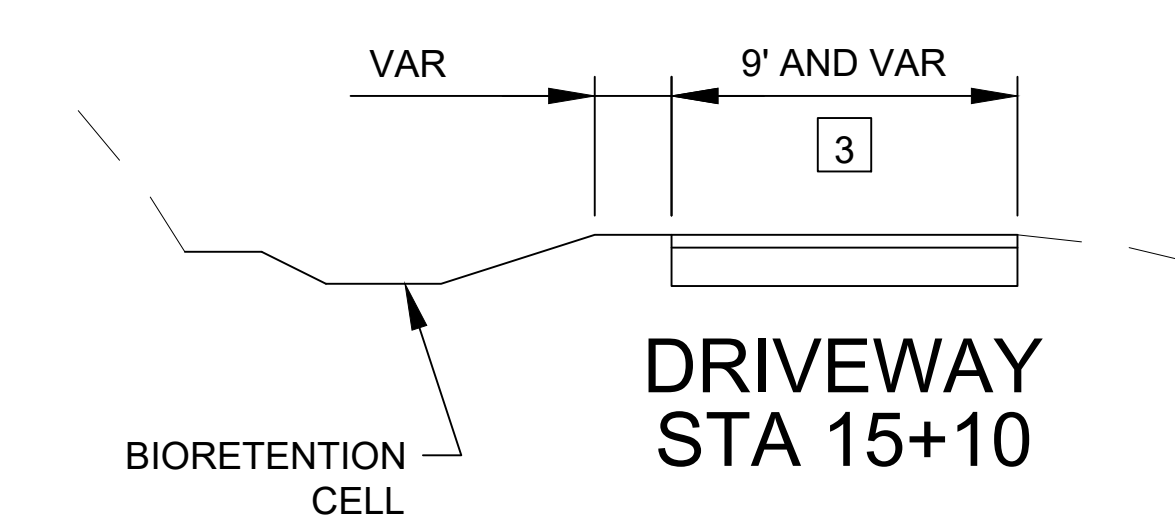
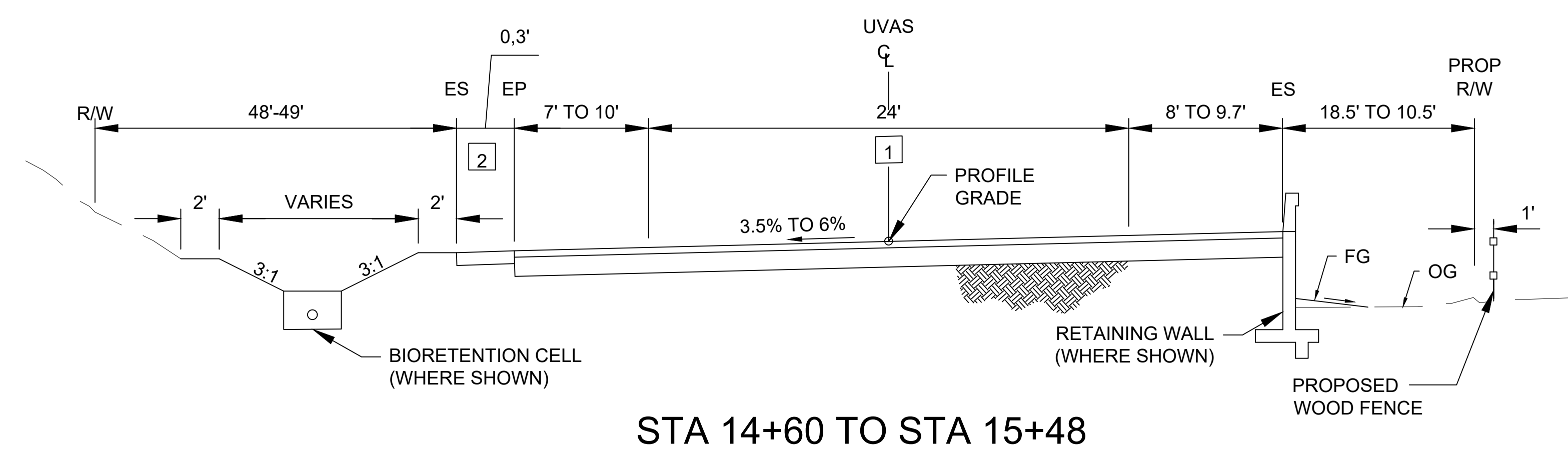
PROJECT NO. **BRLO-5937(106)** CONTRACT NO. DATE:

DRAWING NO. **DM-1**
 SHEET NO. OF

37450101.DWG

TYPICAL STRUCTURAL SECTION

- 1 4" HOT MIX ASPHALT (TYPE A)
12" CL2 AB
- 2 6" CL2 AB
- 3 2" HOT MIX ASPHALT (TYPE A)
4" CL2 AB

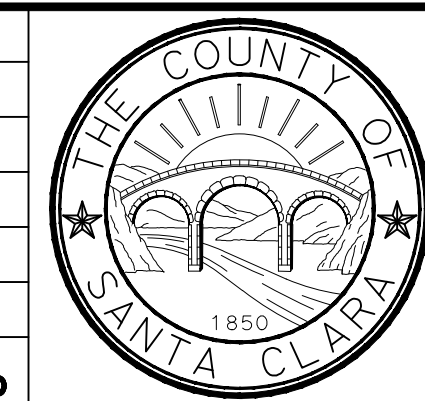


STA 15+48 TO STA 16+42
(SEE BRIDGE PLANS)

NOT TO SCALE



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LMG
DESIGNED
BB
DRAWN
JC
CHECKED

R6239
WORK ORDER
LEVEL BOOK
TRANSIT BOOK

SUBMITTED:
LINDA M. GREVERA
Civil Engineer

APPROVAL:
HARRY FREITAS
DIRECTOR



LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C-0096

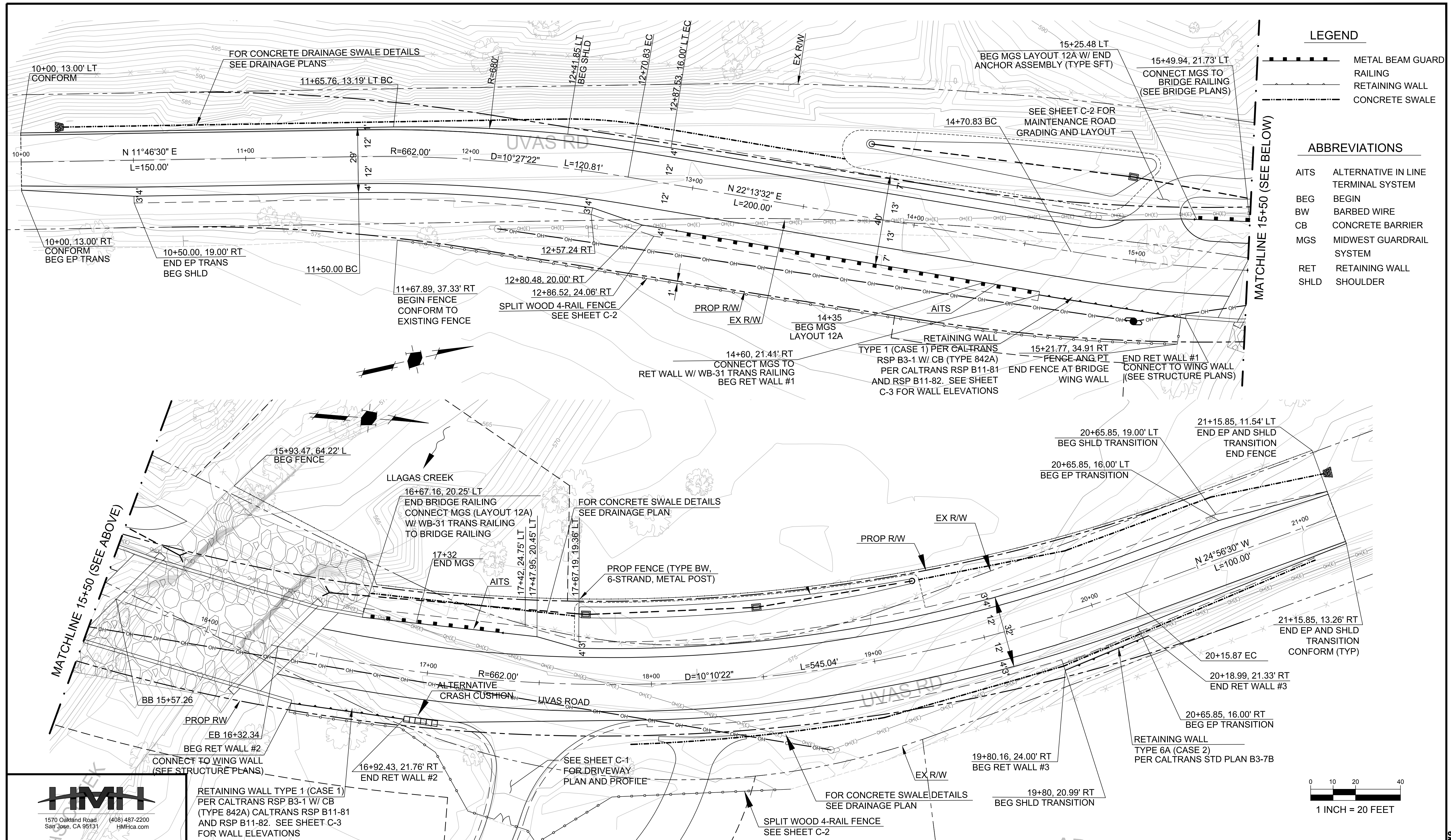
TYPICAL CROSS SECTIONS

DRAWING NO.
X-1
SHT NO.
OF

PROJECT NO. BRLO-5937(106) CONTRACT NO. DATE.

NO.	REVISIONS	BY	DATE	APP'D

374600T01.DWG



LEGEND

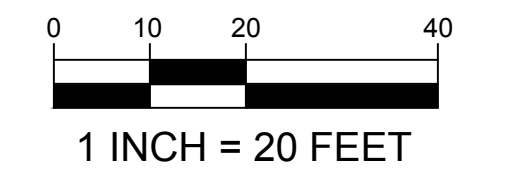
	METAL BEAM GUARD RAILING
	RETAINING WALL
	CONCRETE SWALE

ABBREVIATIONS

AITs	ALTERNATIVE IN LINE TERMINAL SYSTEM
BEG	BEGIN
BW	BARBED WIRE
CB	CONCRETE BARRIER
MGS	MIDWEST GUARDRAIL SYSTEM
RET	RETAINING WALL
SHLD	SHOULDER



RETAINING WALL TYPE 1 (CASE 1) PER CALTRANS RSP B3-1 W/ CB (TYPE 842A) CALTRANS RSP B11-81 AND RSP B11-82. SEE SHEET C-3 FOR WALL ELEVATIONS



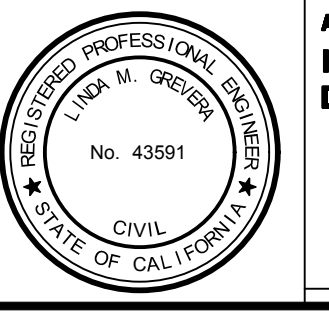
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COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

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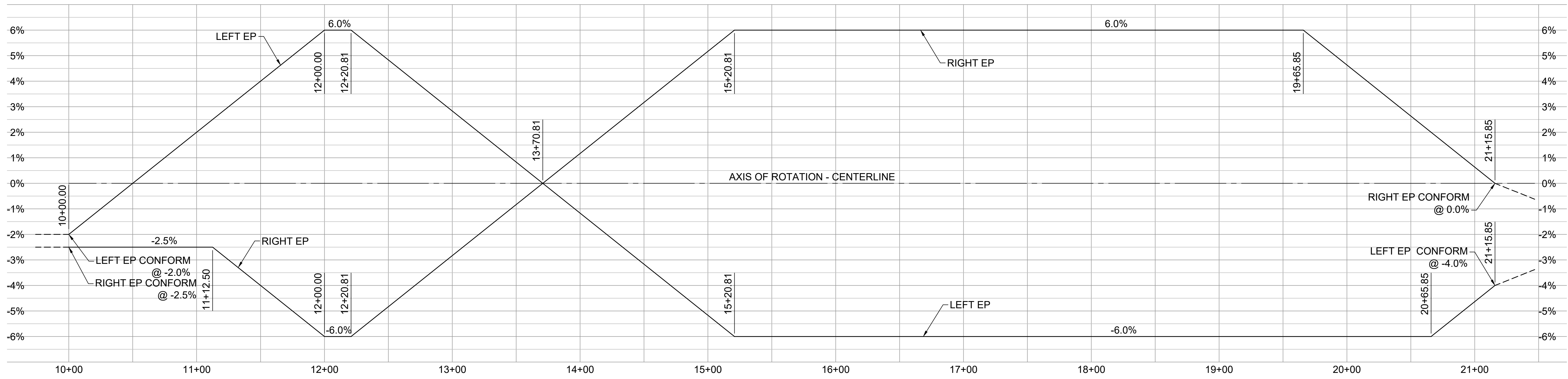
LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C-0096

ROADWAY IMPROVEMENT PLAN

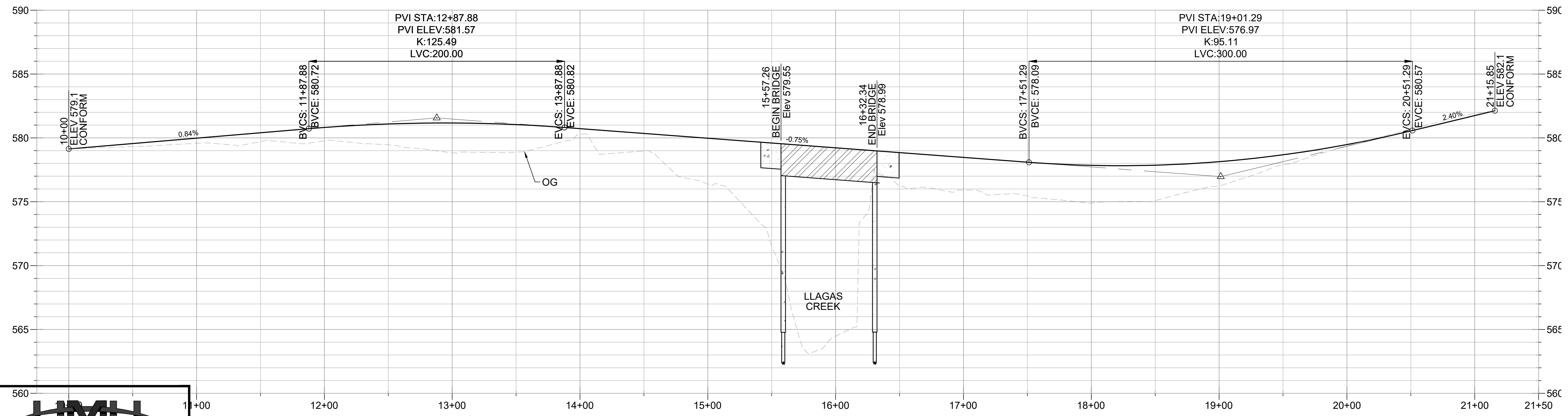
PROJECT NO. **BRLO-5937(106)** CONTRACT NO. DATE.

DRAWING NO. **L-1**
SHT NO. OF

37450101.DWG



SUPERELEVATION



PROFILE
H: 1"=40', V: 1"=4'



COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

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DATE
DATE
DATE
DATE

R6239
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LEVEL BOOK
TRANSIT BOOK

SUBMITTED BY:
LINDA M. GREVERA
Civil Engineer



APPROVAL BY:
HARRY FREITAS
DIRECTOR

**LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C-0096**

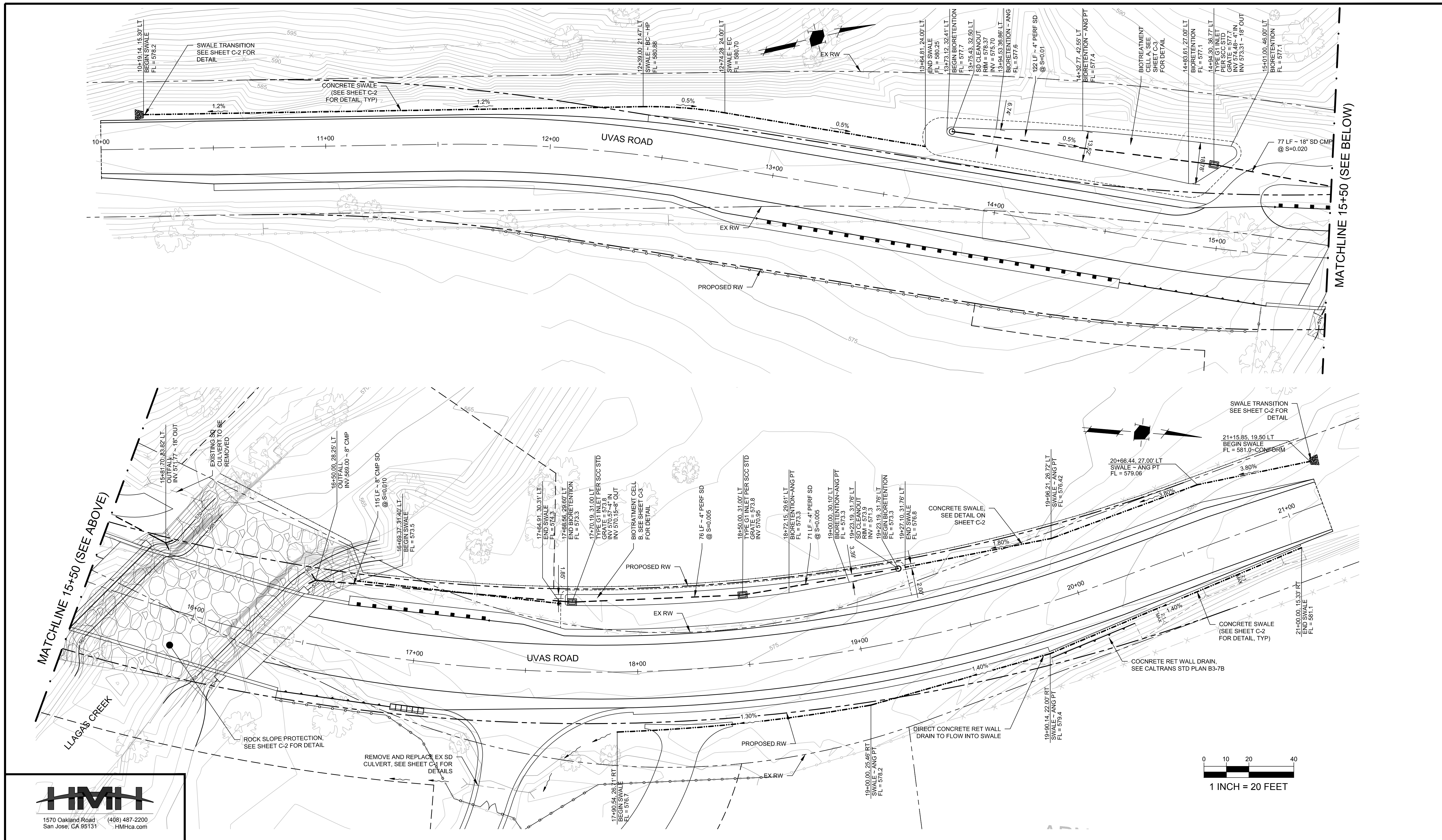
PROFILE AND SUPERELEVATION

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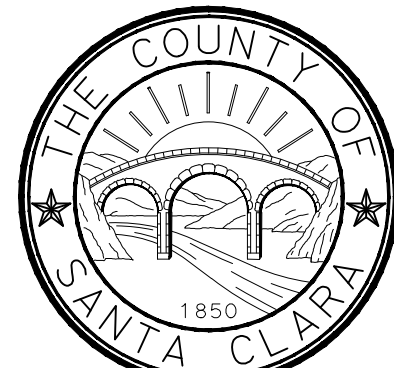
DRAWING NO. **PS-1**
SHEET NO. **OF**

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DIRECTOR
APPROVAL

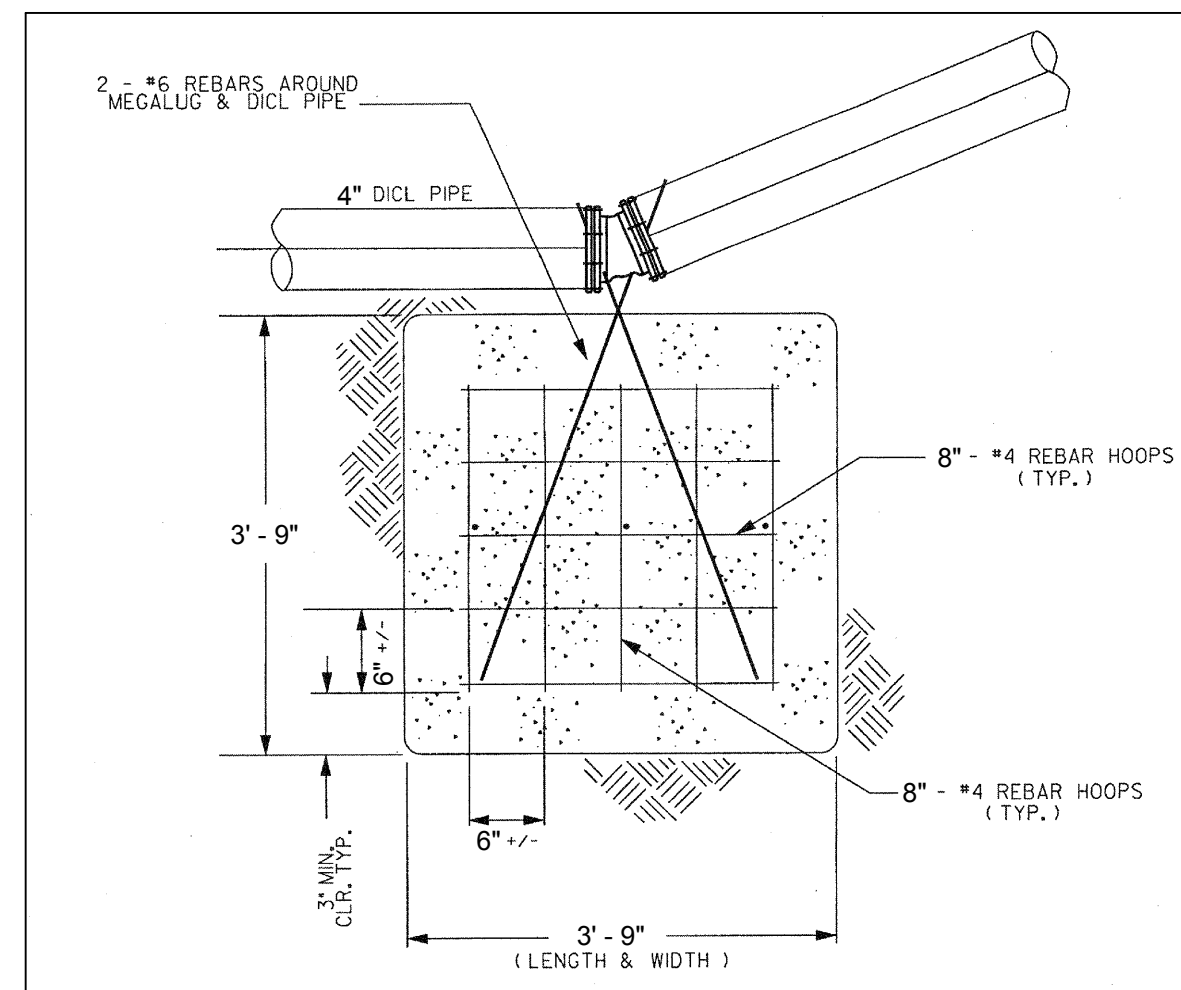
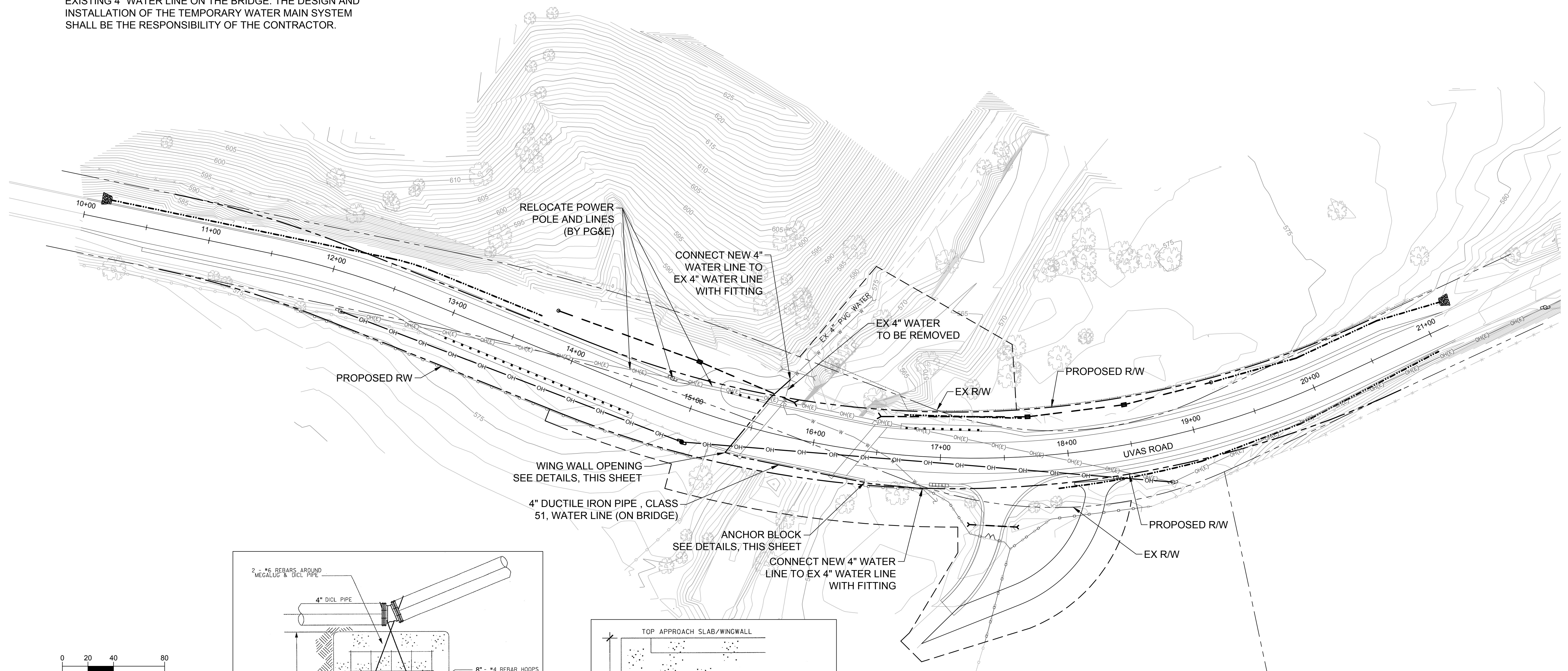
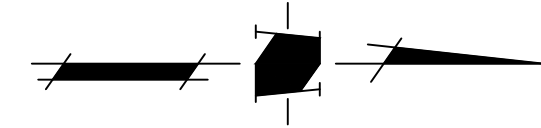


NO.	REVISIONS	BY	DATE	APP'D

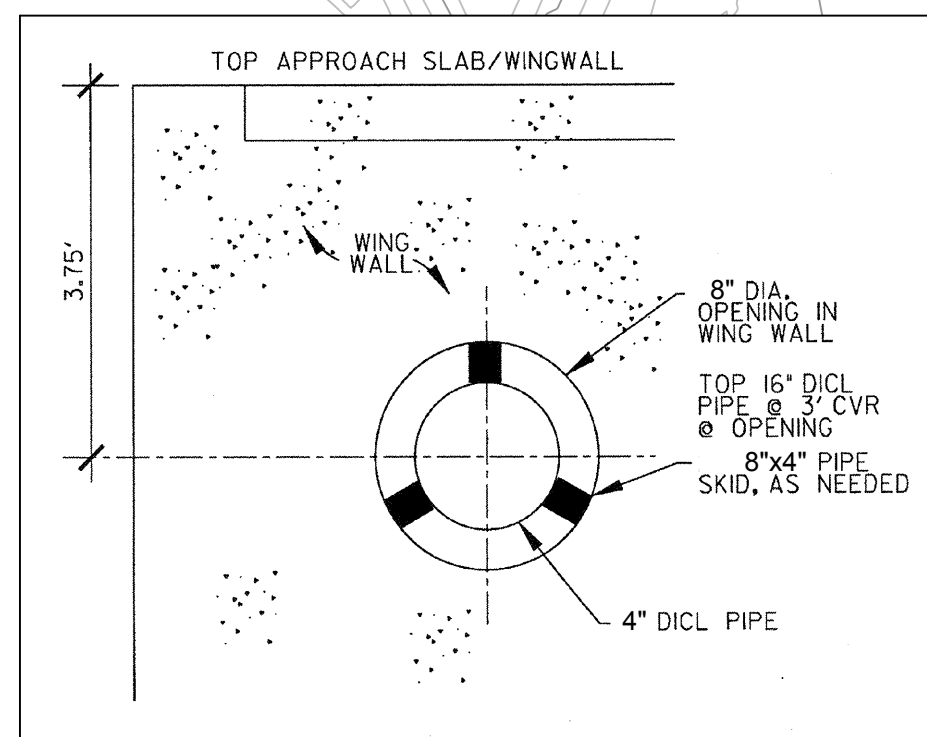
LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)		DRAWING NO.
BRIDGE No. 37C-0096		D-1
DRAINAGE PLAN		
PROJECT NO.	CONTRACT NO.	DATE.
BRLO-5937(106)		
SHT NO.		OF

37450001.DWG

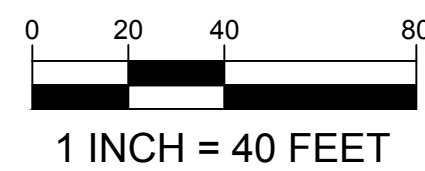
NOTE:
 CONTRACTOR MUST MAINTAIN THE WATER FLOW OF THE
 EXISTING 4" WATER LINE ON THE BRIDGE. THE DESIGN AND
 INSTALLATION OF THE TEMPORARY WATER MAIN SYSTEM
 SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



ANCHOR BLOCK DETAIL
 NTS



WING WALL OPENING
 NTS



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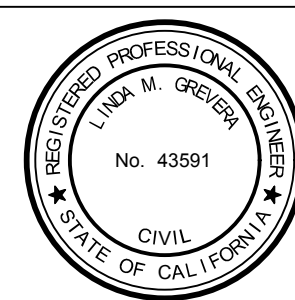
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 LINDA M. GREVERA
 Civil Engineer



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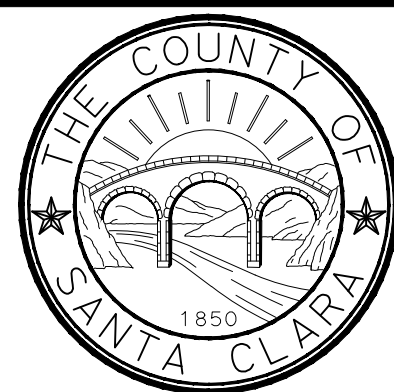
LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
 BRIDGE No. 37C-0096

UTILITY PLAN

DRAWING NO.
U-1
 SHT NO.
 OF

PROJECT NO. **BRLO-5937(106)** CONTRACT NO. DATE.

NO.	REVISIONS	BY	DATE	APP'D



374600X01.DWG 3745.00

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- OWNER: COUNTY OF SANTA CLARA
IT SHALL BE THE OWNER'S RESPONSIBILITY TO MAINTAIN CONTROL OF THE ENTIRE CONSTRUCTION OPERATION AND TO KEEP THE ENTIRE SITE IN COMPLIANCE WITH THE SOIL EROSION CONTROL PLAN.
- CIVIL ENGINEER: HMH, 1570 OAKLAND RD, SAN JOSE, CA 95131
- CONSTRUCTION SUPERINTENDENT: _____
CONTRACTOR: _____
- THIS PLAN IS INTENDED TO BE USED FOR INTERIM EROSION AND SEDIMENT CONTROL ONLY AND IS NOT TO BE USED FOR FINAL ELEVATIONS OR PERMANENT IMPROVEMENTS.
- DEVELOPER WILL SUBMIT TO THE COUNTY MONTHLY (AT THE FIRST OF EACH MONTH BETWEEN OCT 1ST AND APRIL 30TH) CERTIFICATIONS THAT ALL EROSION/SEDIMENT MEASURES IDENTIFIED ON THE APPROVED EROSION CONTROL PLAN ARE IN PLACE. IF MEASURES ARE NOT IN PLACE, DEVELOPER SHALL PROVIDE THE COUNTY WITH A WRITTEN EXPLANATION OF WHY THE MEASURE IS NOT IN PLACE AND WHAT WILL BE DONE TO REMEDY THIS SITUATION.
- OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING EROSION AND SEDIMENT CONTROL MEASURES PRIOR, DURING, AND AFTER STORM EVENTS.
- REASONABLE CARE SHALL BE TAKEN WHEN HAULING ANY EARTH, SAND, GRAVEL, STONE, DEBRIS, PAPER OR ANY OTHER SUBSTANCE OVER ANY PUBLIC STREET, ALLEY OR OTHER PUBLIC PLACE. SHOULD ANY BLOW, SPILL, OR TRACK OVER AND UPON SAID PUBLIC OR ADJACENT PRIVATE PROPERTY, IMMEDIATE REMEDY SHALL OCCUR.
- SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE.
- DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM, INCLUDING EXISTING DRAINAGE SWALES AND WATER COURSES.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT SHALL BE COMPLIED WITH.
- CONTRACTOR SHALL PROVIDE DUST CONTROL AS REQUIRED BY THE APPROPRIATE FEDERAL, STATE AND LOCAL AGENCY REQUIREMENTS.

MAINTENANCE NOTES

- MAINTENANCE IS TO BE PERFORMED AS FOLLOWS:
 - REPAIR DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION AT THE END OF EACH WORKING DAY.
 - SWALES SHALL BE INSPECTED PERIODICALLY AND MAINTAINED AS NEEDED.
 - SEDIMENT TRAPS, BERMS, AND SWALES ARE TO BE INSPECTED AFTER EACH STORM AND REPAIRS MADE AS NEEDED.
 - SEDIMENT SHALL BE REMOVED AND SEDIMENT TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A DEPTH OF 1 FOOT.
 - SEDIMENT REMOVED FROM TRAP SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
 - RILLS AND GULLIES MUST BE REPAIRED.
- SAND BAG INLET PROTECTION SHALL BE CLEANED OUT WHENEVER SEDIMENT DEPTH IS ONE HALF THE HEIGHT OF ONE SAND BAG.

EROSION AND SEDIMENT CONTROL MEASURES

- THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL EROSION AND SEDIMENT DURING THE RAINY SEASON, OCTOBER 1 TO APRIL 30. FACILITIES ARE TO BE OPERABLE PRIOR TO SEPTEMBER 15 OF ANY YEAR. GRADING OPERATIONS DURING THE RAINY SEASON WHICH LEAVE DENUDE SLOPES SHALL BE PROTECTED WITH EROSION CONTROL MEASURES IMMEDIATELY FOLLOWING GRADING ON THE SLOPES. DURING THE NON-RAINY SEASON BEST MANAGEMENT PRACTICES (BMPs) MUST BE IMPLEMENTED DURING CONSTRUCTION WHICH INCLUDES, BUT IS NOT LIMITED TO: STABILIZED CONSTRUCTION ENTRANCE, TIRE WASH AREA AND INLET PROTECTION.
- THIS PLAN COVERS ONLY THE FIRST WINTER FOLLOWING GRADING WITH ASSUMED SITE CONDITIONS AS SHOWN ON THE EROSION CONTROL PLAN. PRIOR TO SEPTEMBER 15, THE COMPLETION OF SITE IMPROVEMENT SHALL BE EVALUATED AND REVISIONS MADE TO THIS PLAN AS NECESSARY WITH THE APPROVAL OF THE COUNTY ENGINEER. PLANS ARE TO BE RESUBMITTED FOR COUNTY APPROVAL PRIOR TO SEPTEMBER 1 OF EACH SUBSEQUENT YEAR UNTIL SITE IMPROVEMENTS ARE ACCEPTED BY THE COUNTY.
- CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF GRADING. ALL CONSTRUCTION TRAFFIC ENTERING ONTO THE PAVED ROADS MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCE WAYS. (ALSO INCLUDE THIS NOTE ON GRADING PLANS.)
- CONTRACTOR SHALL MAINTAIN STABILIZED ENTRANCE AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED STREETS. ANY MUD OR DEBRIS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED DAILY AND AS REQUIRED BY THE COUNTY.
- IF HYDROSEEDING IS NOT USED OR IS NOT EFFECTIVE BY 9/23, THEN OTHER IMMEDIATE METHODS SHALL BE IMPLEMENTED, SUCH AS EROSION CONTROL BLANKETS, OR A THREE-STEP APPLICATION OF 1) SEED, MULCH, FERTILIZER 2) BLOWN STRAW 3) TACKIFIER AND MULCH.
- INLET PROTECTION SHALL BE INSTALLED AT OPEN INLETS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM. INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL ARE TO BE BLOCKED TO PREVENT ENTRY OF SEDIMENT.
- LOTS WITH HOUSES UNDER CONSTRUCTION WILL NOT BE HYDROSEED. EROSION PROTECTION FOR EACH LOT WITH A HOUSE UNDER CONSTRUCTION SHALL CONFORM TO THE TYPICAL LOT EROSION CONTROL DETAIL SHOWN ON THIS SHEET.
- THIS EROSION AND SEDIMENT CONTROL PLAN MAY NOT COVER ALL THE SITUATIONS THAT MAY ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS AND ADDITIONS MAY BE MADE TO THIS PLAN IN THE FIELD. NOTIFY THE COUNTY REPRESENTATIVE OF ANY FIELD CHANGES.

MAINTENANCE SCHEDULE

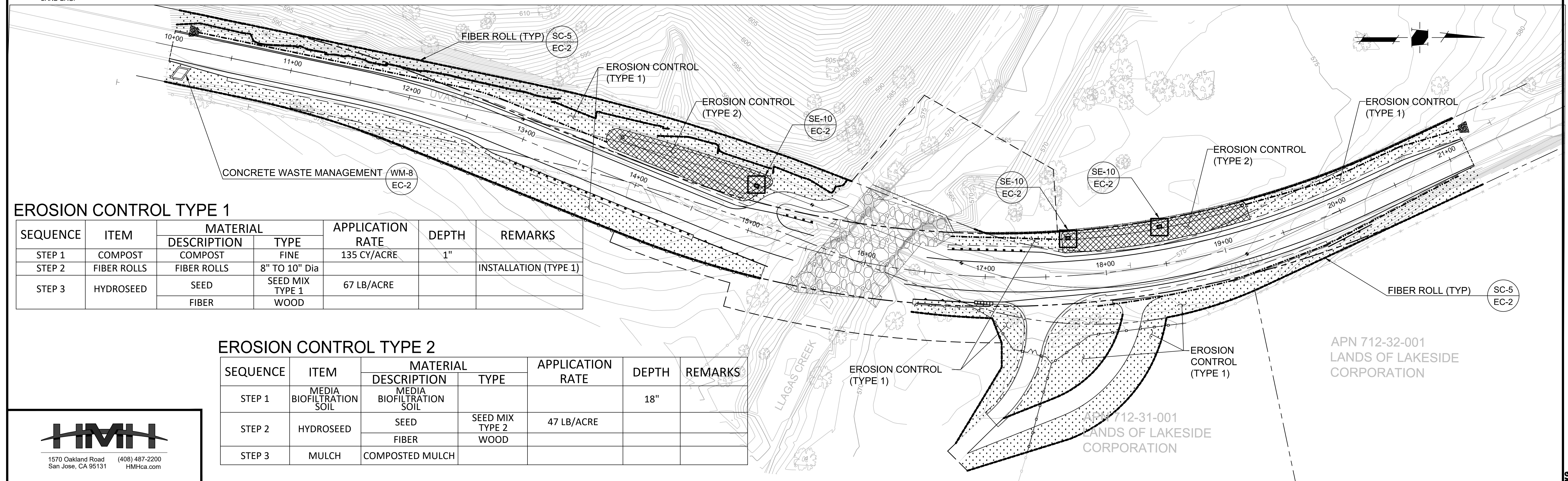
CONTROL	INSPECTION FREQUENCY	MAINTENANCE/REPAIR MEASURES
STORM DRAIN INLET PROTECTION	WEEKLY & AFTER EACH RAIN	REPLACE CLOGGED FILTER FABRIC IMMEDIATELY REMOVE SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE FILTER
HYDROSEED/HYDROMULCH EROSION CONTROL BLANKETS	PERIODICALLY DURING & AFTER EACH RAIN	PRIOR TO RESEEDING, REPAIR ALL RILLS AND GULLIES REMOVE SEDIMENT BUILDUP AT TOE OF SLOPES REAPPLY SEED AND/OR MULCH TO AREAS THAT HAVE BEEN REPAIRED, ERODED, OR ARE WITHOUT ADEQUATE VEGETATION DISLOCATED BLANKETS, NETS, OR MATS SHOULD BE REPAIRED OR REPLACED
FIBER ROLLS	WEEKLY & AFTER EACH RAIN	REPAIR WHENEVER STRAW ROLL IS DAMAGED REMOVE SEDIMENT WHEN IT REACHES 1/3 THE HEIGHT OF THE ROLLS ESPECIALLY IF HEAVY RAINS ARE EXPECTED

BMP SUMMARY TABLE

BMP CATEGORY	BMP USED
EROSION CONTROL	SCHEDULING, PRESERVATION OF EXISTING VEGETATION
SEDIMENT CONTROL	FIBER ROLLS, STREET SWEEPING, STORM DRAIN INLET PROTECTION
GOOD SITE MANAGEMENT	MATERIAL DELIVERY AND STORAGE, MATERIAL USE, STOCK PILE MANAGEMENT, SPILL PRESERVATION AND CONTROL, SOLID WASTE MANAGEMENT, HAZARDOUS WASTE, CONCRETE WASTE MANAGEMENT, SANITARY-SEPTIC WASTE MANAGEMENT
NON-STORMWATER MANAGEMENT	PAVING AND GRINDING OPERATION, ILLICIT CONNECTION-ILLEGAL DISCHARGE CONNECTION
RUN-ON AND RUN-OFF CONTROL	FIBER ROLLS, SANDBAGS
ACTIVE TREATMENT SYSTEMS	NOT APPLICABLE

LEGEND

- INLET PROTECTION
- FIBER ROLL
- EROSION CONTROL (TYPE 1)
- EROSION CONTROL (TYPE 2)
- FIBER ROLL (TYP)



EROSION CONTROL TYPE 1

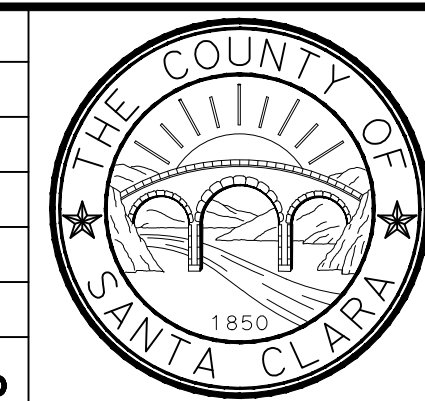
SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	DEPTH	REMARKS
		DESCRIPTION	TYPE			
STEP 1	COMPOST	COMPOST	FINE	135 CY/ACRE	1"	
STEP 2	FIBER ROLLS	FIBER ROLLS	8" TO 10" Dia			INSTALLATION (TYPE 1)
STEP 3	HYDROSEED	SEED	SEED MIX TYPE 1	67 LB/ACRE		
		FIBER	WOOD			

EROSION CONTROL TYPE 2

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	DEPTH	REMARKS
		DESCRIPTION	TYPE			
STEP 1	MEDIA BIOFILTRATION SOIL	MEDIA BIOFILTRATION SOIL		47 LB/ACRE	18"	
STEP 2	HYDROSEED	SEED	SEED MIX TYPE 2			
		FIBER	WOOD			
STEP 3	MULCH	COMPOSTED MULCH				



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COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

LMG DESIGNED	DATE	R6239 WORK ORDER	SUBMITTED BY: LINDA M. GREVERA Civil Engineer	APPROVAL BY: HARRY FREITAS DIRECTOR
EMF DRAWN	DATE	LEVEL BOOK		
MAC CHECKED	DATE	TRANSIT BOOK		

LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT) BRIDGE No. 37C-0096

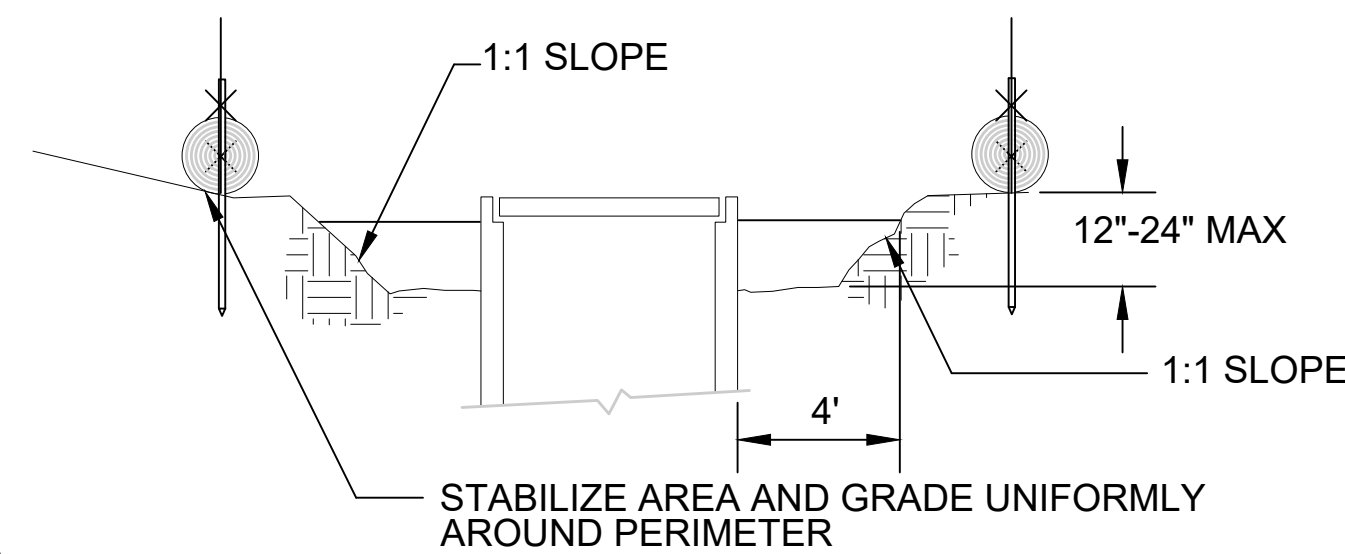
EROSION CONTROL PLAN

PROJECT NO. BRLO-5937(106)	CONTRACT NO.	DATE.
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NO.	REVISIONS	BY	DATE	APP'D

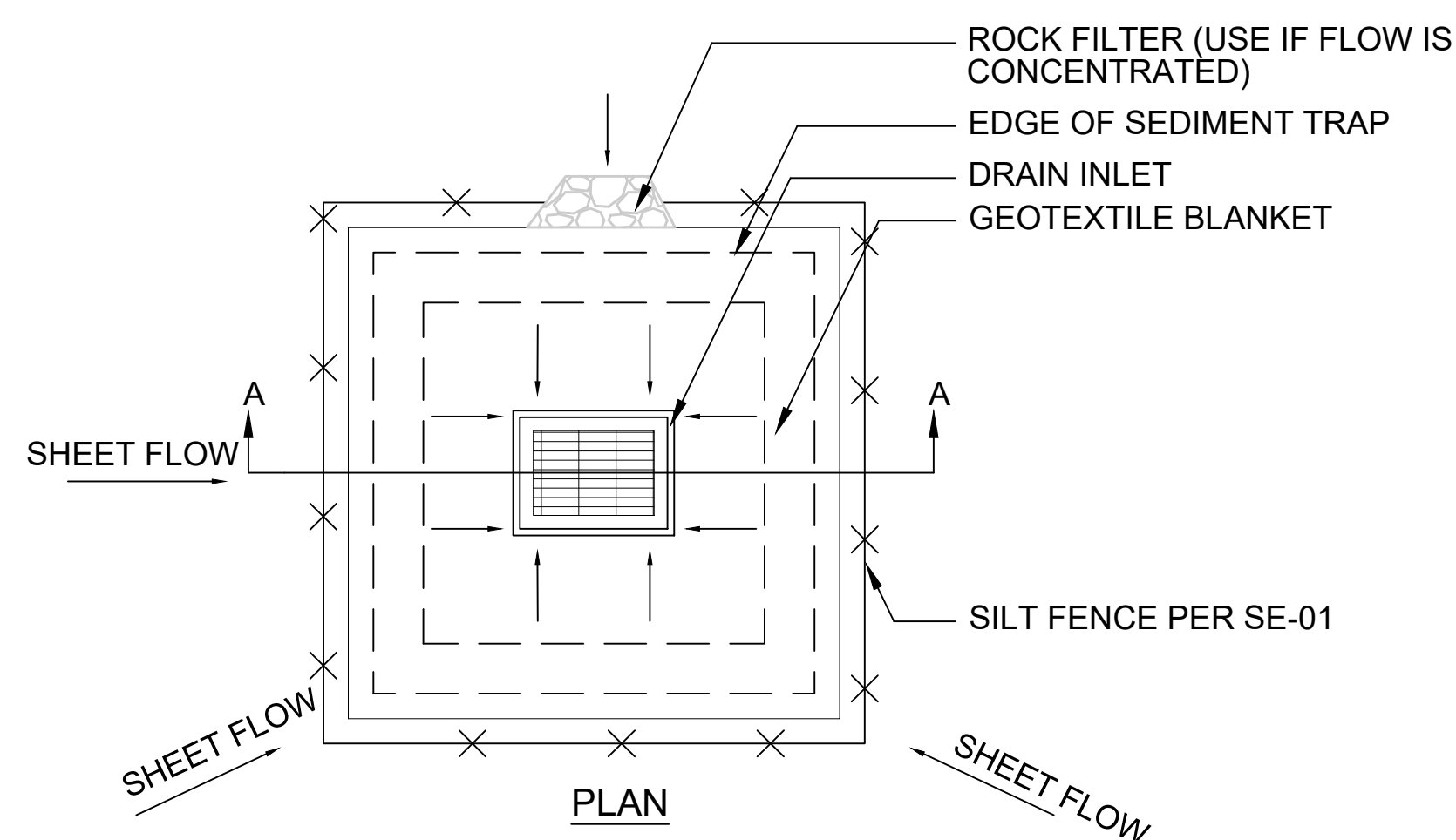
DRAWING NO. EC-1
SHT NO. OF

3745.00



NOTE:
REMOVE SEDIMENT BEFORE
REACHING ONE-THIRD FULL

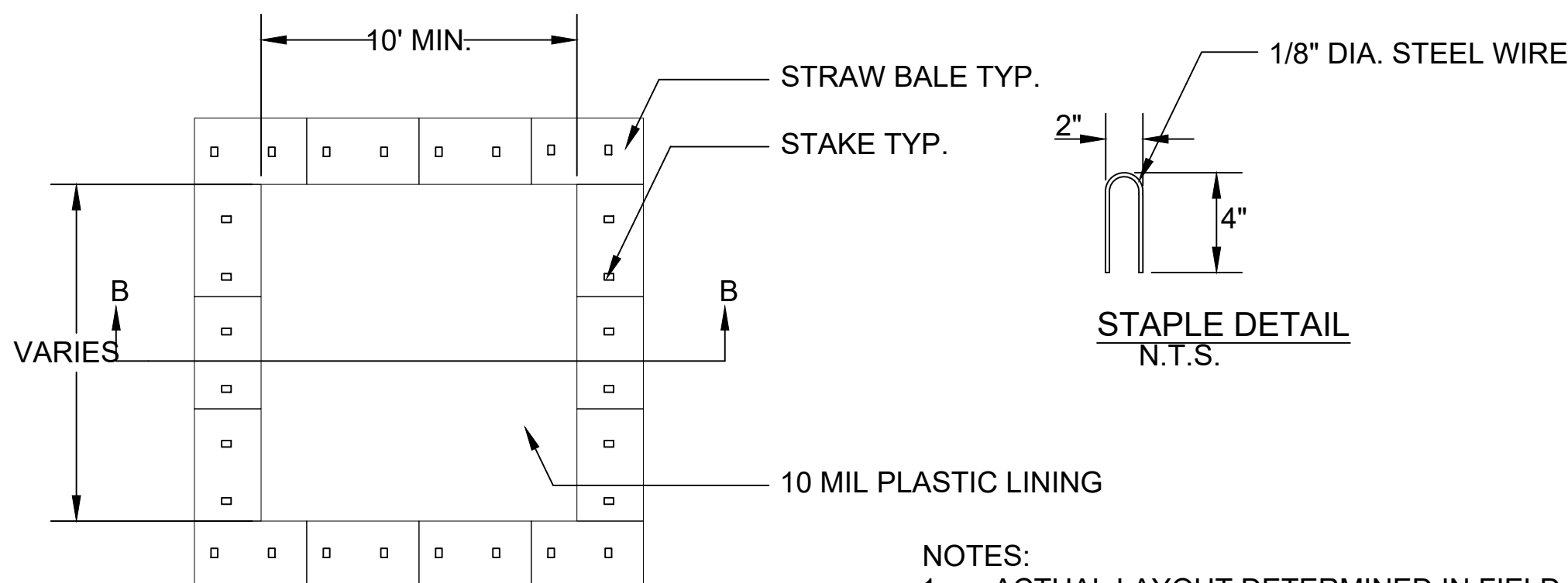
SECTION A-A



NOTES:

- FOR USE IN CLEARED AND GRUBBED AND IN GRADED AREAS
- SHAPE BASIN SO THAT LONGEST INFLOW AREA FACES LONGEST LENGTH OF TRAP
- FOR CONCENTRATED FLOWS SHAPE BASIN IN 2:1 RATIO WITH LENGTH ORIENTED TOWARDS DIRECTION FLOW

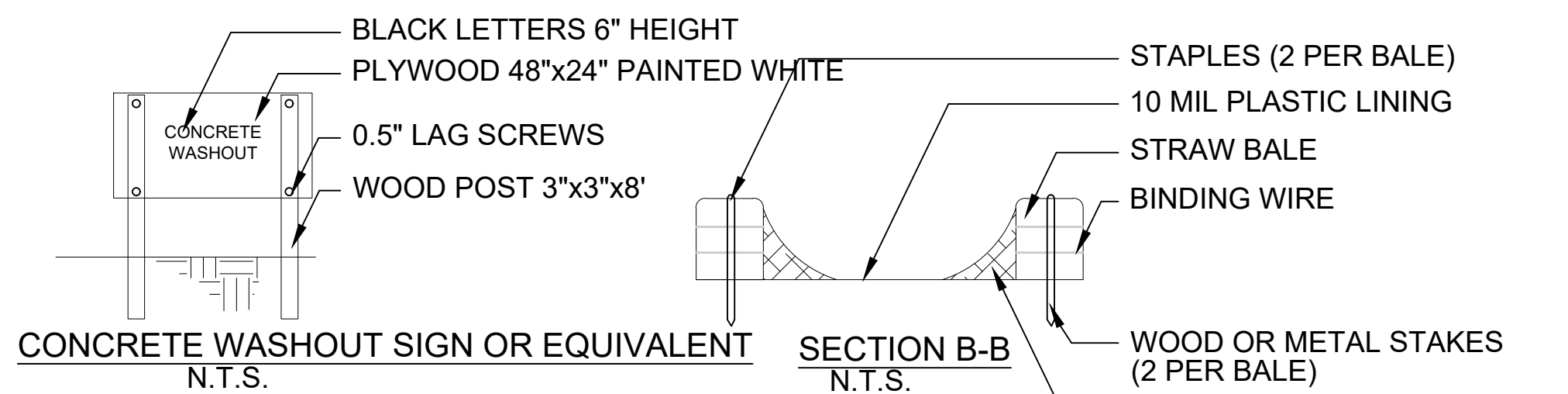
SE-10 STORM DRAIN INLET PROTECTION - TYPE 2
N.T.S.



PLAN
N.T.S.
TYPE "ABOVE GRADE" STRAW BALES

NOTES:

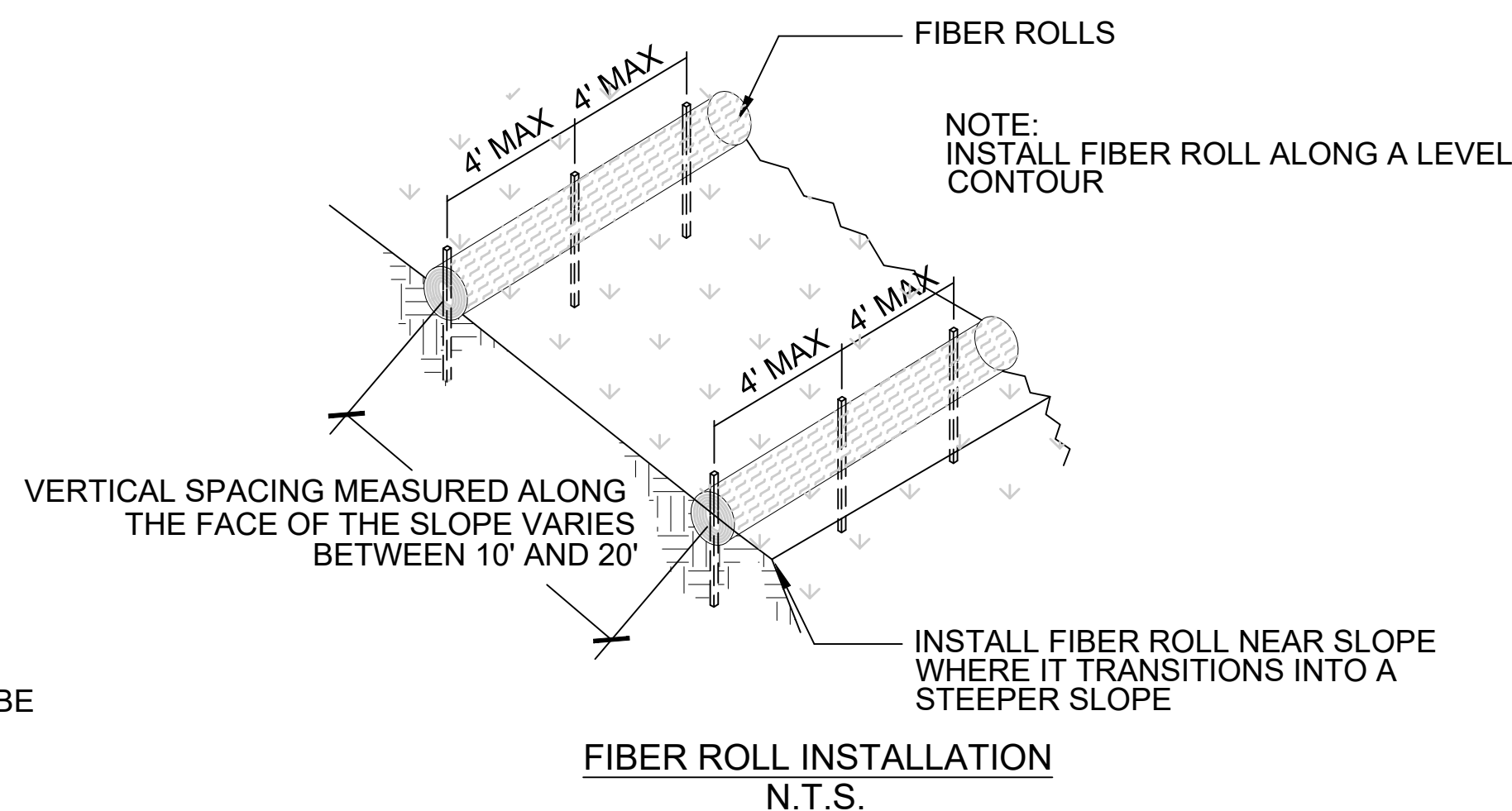
- ACTUAL LAYOUT DETERMINED IN FIELD
- THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY



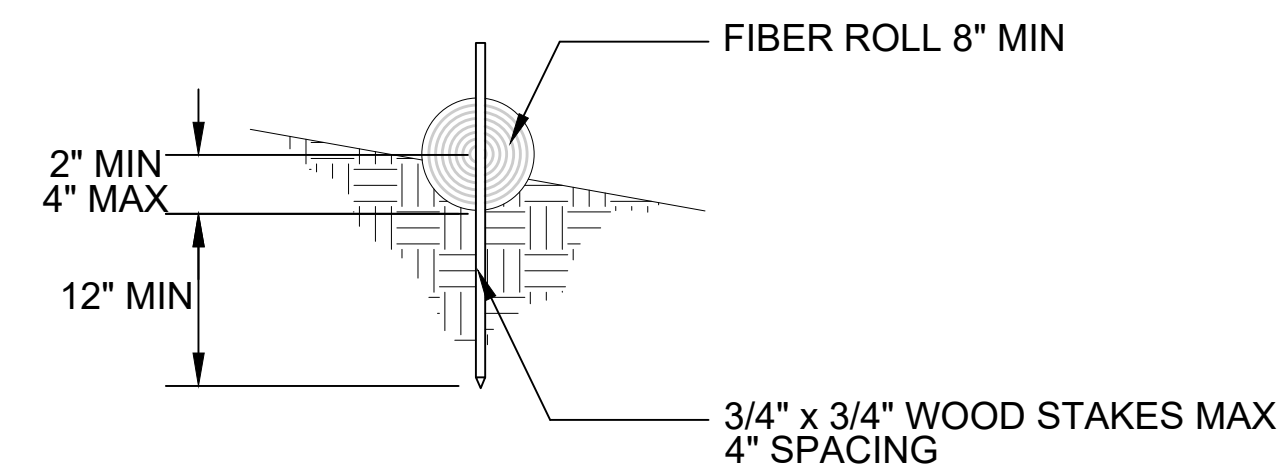
CONCRETE WASHOUT SIGN OR EQUIVALENT
N.T.S.

SECTION B-B
N.T.S.

WM-8 CONCRETE WASTE MANAGEMENT
N.T.S.



FIBER ROLL INSTALLATION
N.T.S.



ENCROACHMENT DETAIL
N.T.S.

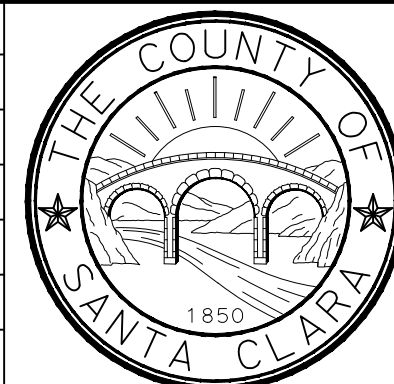
SE-5 FIBER ROLLS
N.T.S.

NOTE:

DETAILS SHOWN ARE BASED UPON THE CALIFORNIA STORMWATER QUALITY ASSOCIATION'S STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK.



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CHECKED	DATE	TRANSIT BOOK

LMG
R6239
SUBMITTED BY
LINDA M. GREVERA
Civil Engineer



APPROVAL BY
HARRY FREITAS
DIRECTOR

LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C-0096

EROSION CONTROL DETAILS

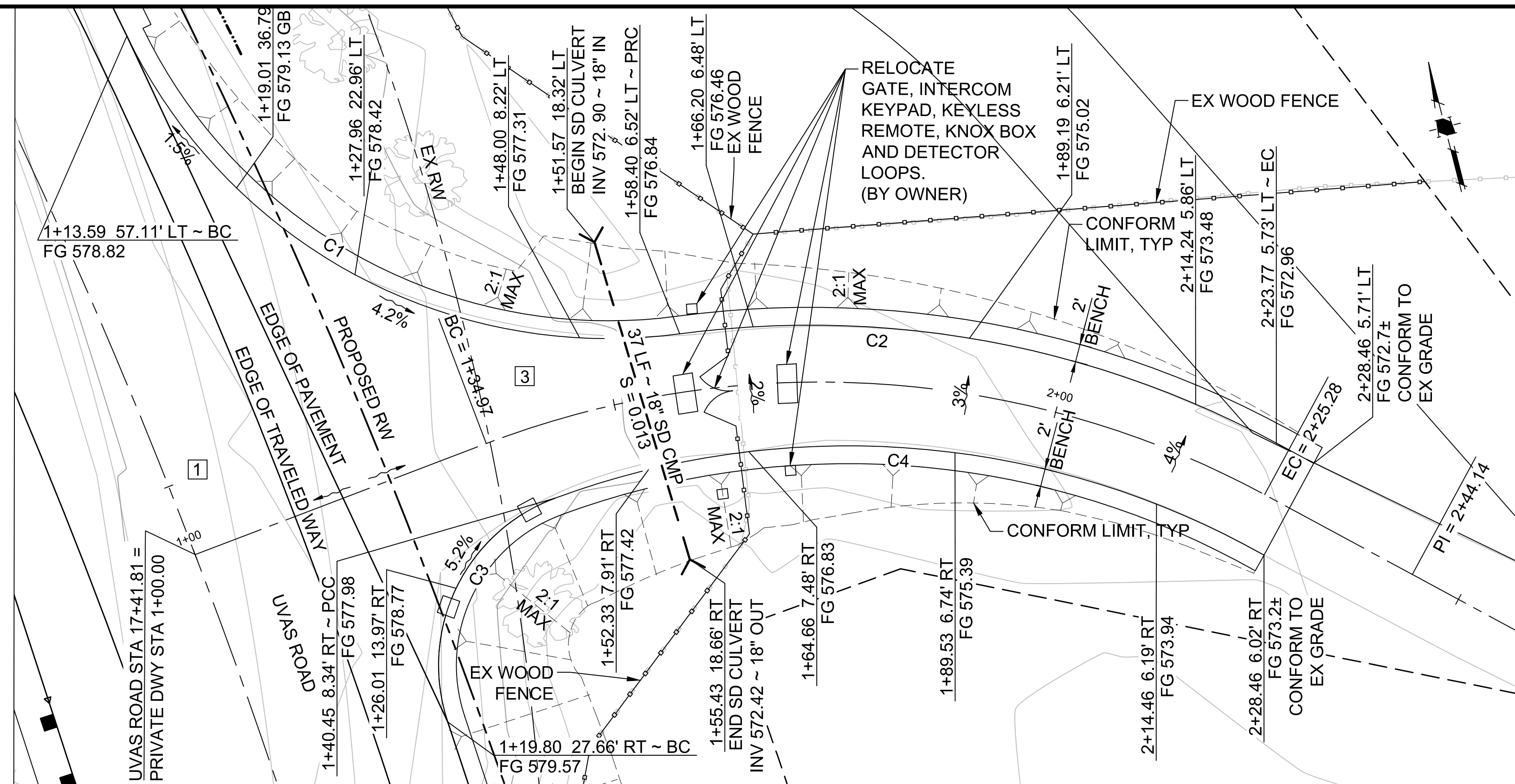
DRAWING NO.
EC-2
SHT NO.
OF

PROJECT NO. BRLO-5937(106) CONTRACT NO. DATE.

NO.	REVISIONS	BY	DATE	APP'D

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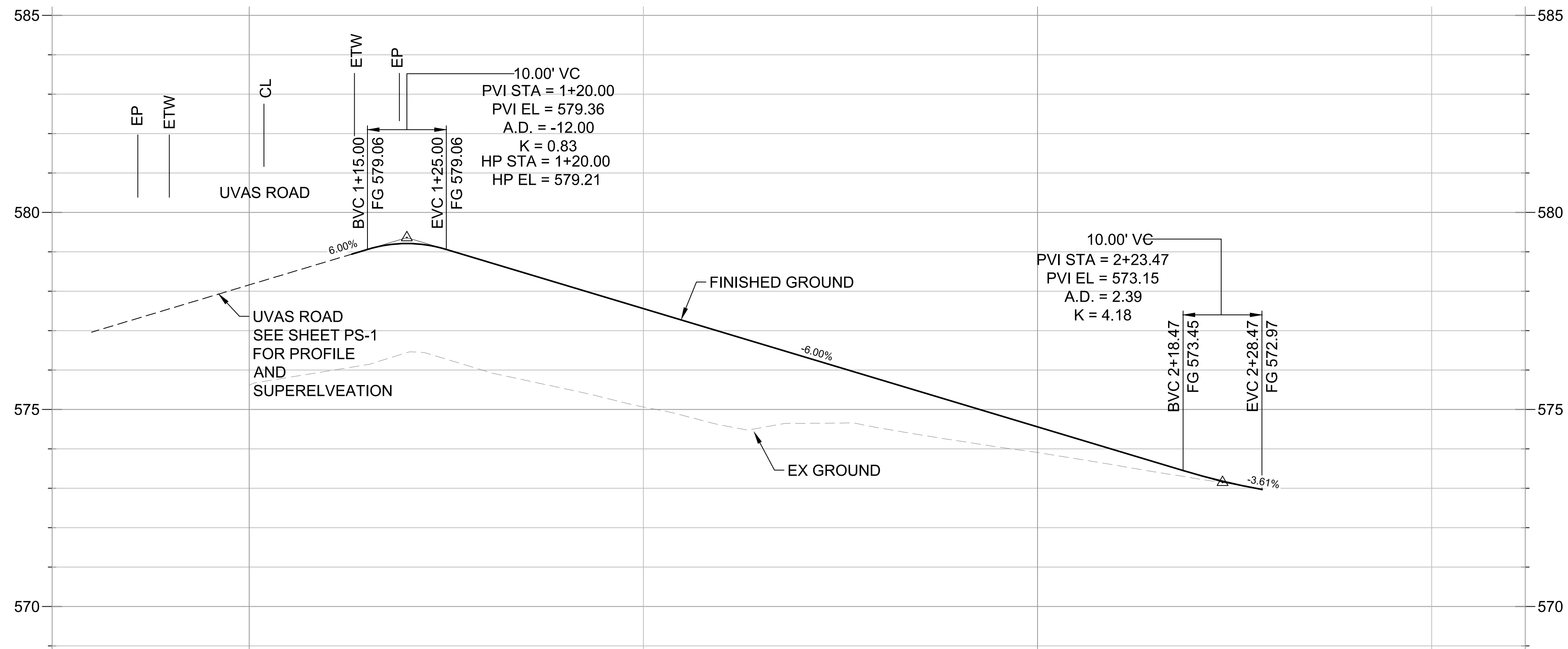
NOTE: FOR STRUCTURAL SECTIONS SEE SHEET X-1



PRIVATE DRIVEWAY - PLAN VIEW

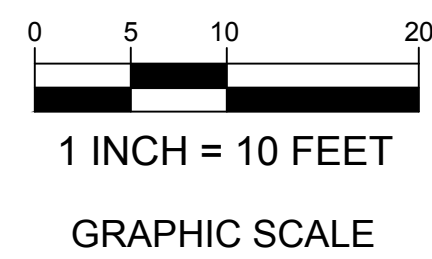
SCALE: 1" = 10'

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C1	75.33'	60.00'	71°56'19"
C2	69.21'	110.00'	36°02'58"
C3	30.83'	20.00'	88°19'31"
C4	82.39'	95.00'	49°41'22"

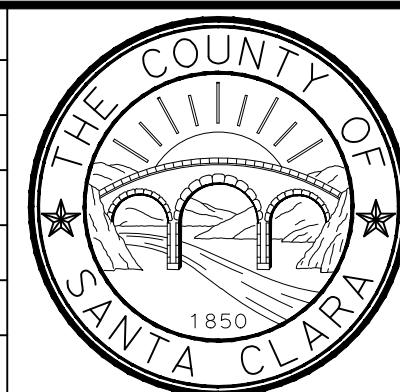


PRIVATE DRIVEWAY - PROFILE VIEW

SCALE: 1" = 10' HOR
1" = 2' VERT



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COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

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BB DRAWN DATE
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R6239 WORK ORDER
LINDA M. GREVERA Civil Engineer
LEVEL BOOK
TRANSIT BOOK



APPROVAL: HARRY FREITAS DIRECTOR

LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C-0096

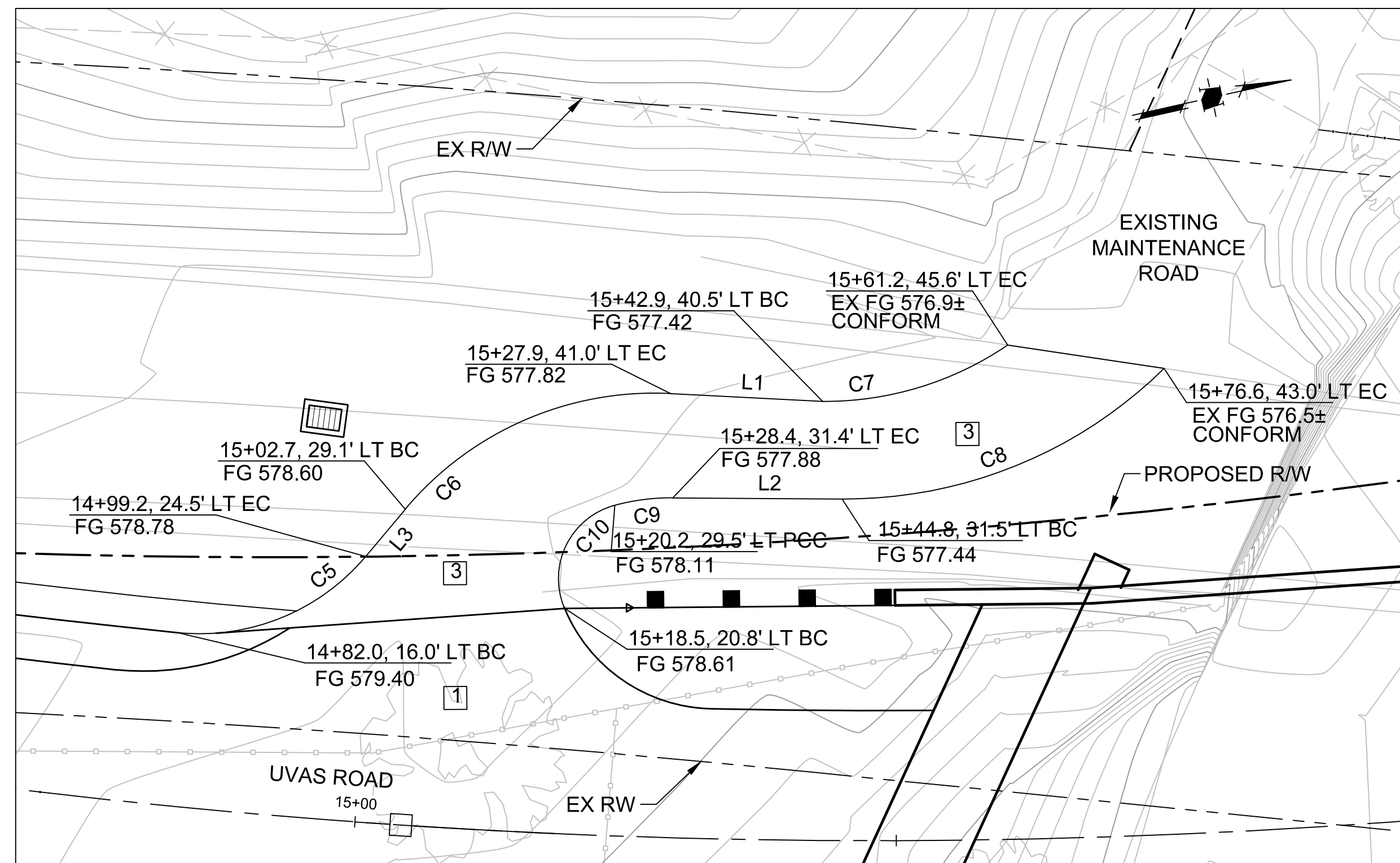
CONSTRUCTION DETAILS

DRAWING NO. C-1
SHT NO. OF

PROJECT NO. BRLO-5937(106) CONTRACT NO. DATE.

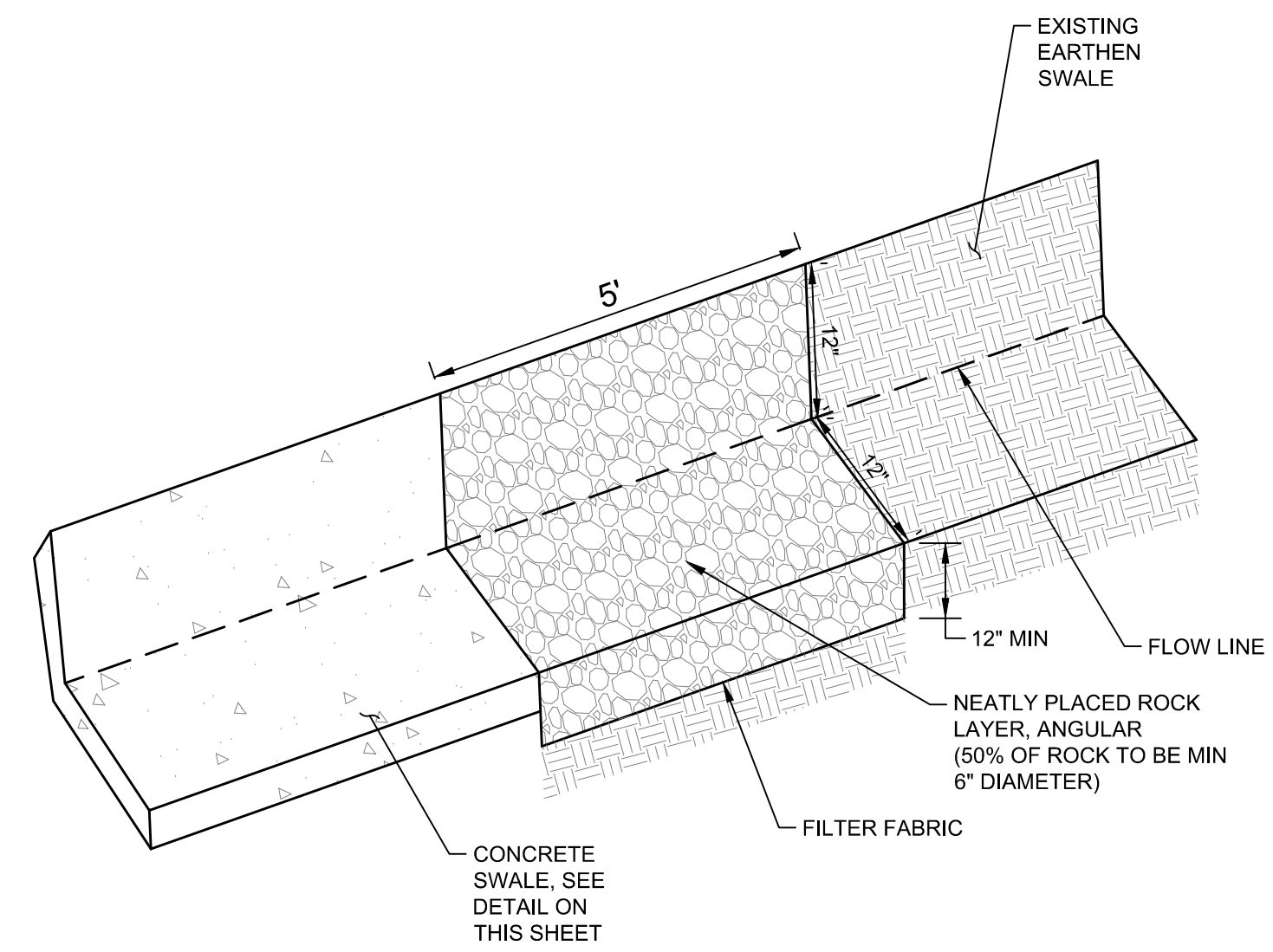
NO.	REVISIONS	BY	DATE	APP'D

37450001.DWG

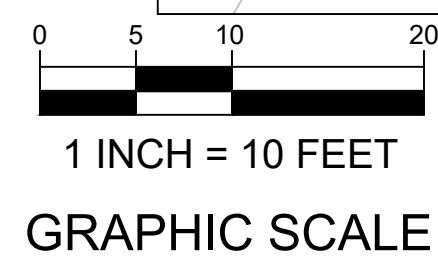


LINE TABLE		
LINE	LENGTH	BEARING
L1	14.04'	N18°26'48"E
L2	15.63'	N15°56'04"E
L3	5.72'	S34°25'21"E

CURVE TABLE			
CURVE	LENGTH	RADIUS	DELTA
C5	19.44'	20.00'	55°40'58"
C6	27.68'	30.00'	52°52'09"
C7	18.13'	30.00'	34°37'02"
C8	32.92'	42.00'	44°54'09"
C9	5.41'	20.00'	15°29'31"
C10	11.81'	7.00'	96°42'07"



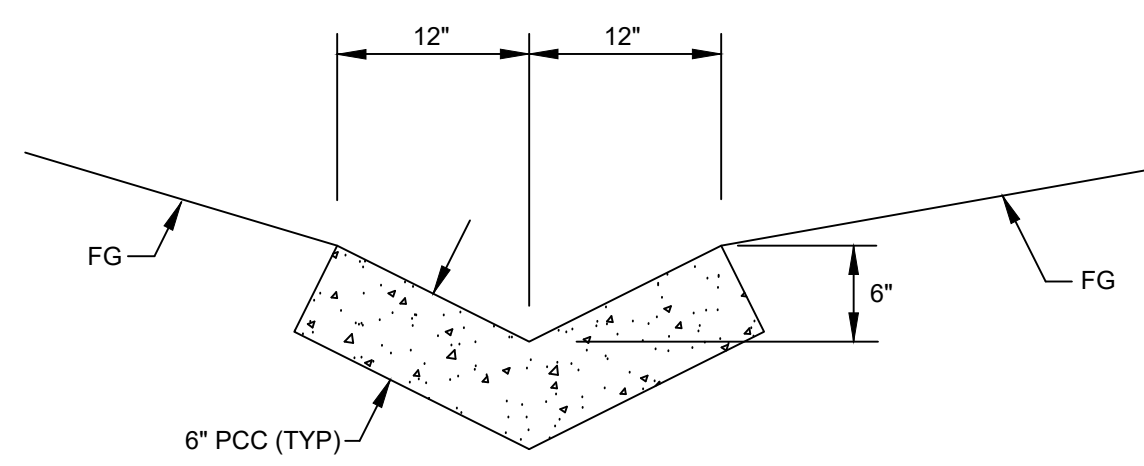
SWALE TRANSITION
NTS



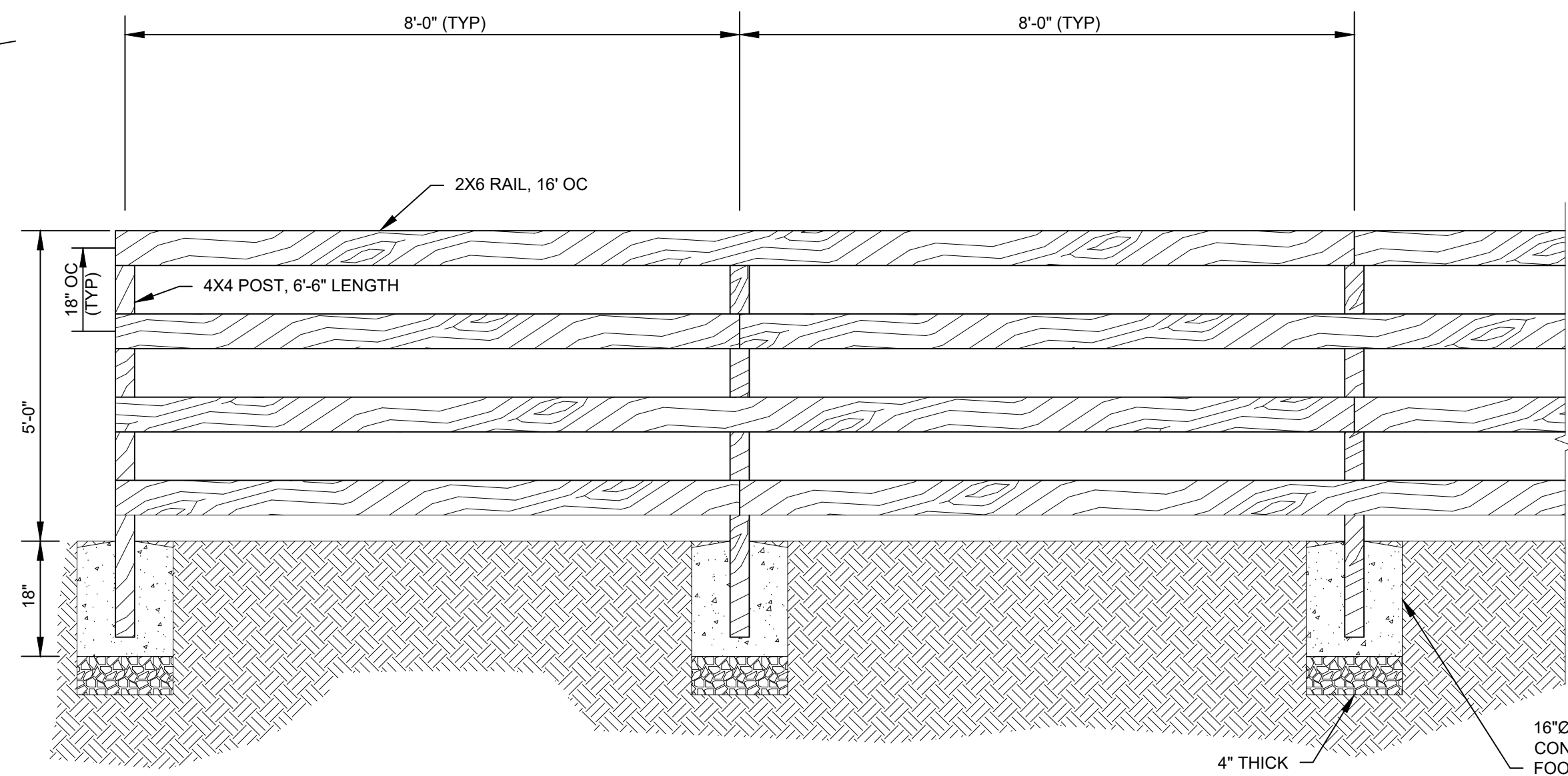
DETAIL A
MAINTENANCE ROAD GRADING
SCALE: 1" = 10'

NOTE: FOR STRUCTURAL SECTIONS SEE SHEET X-1

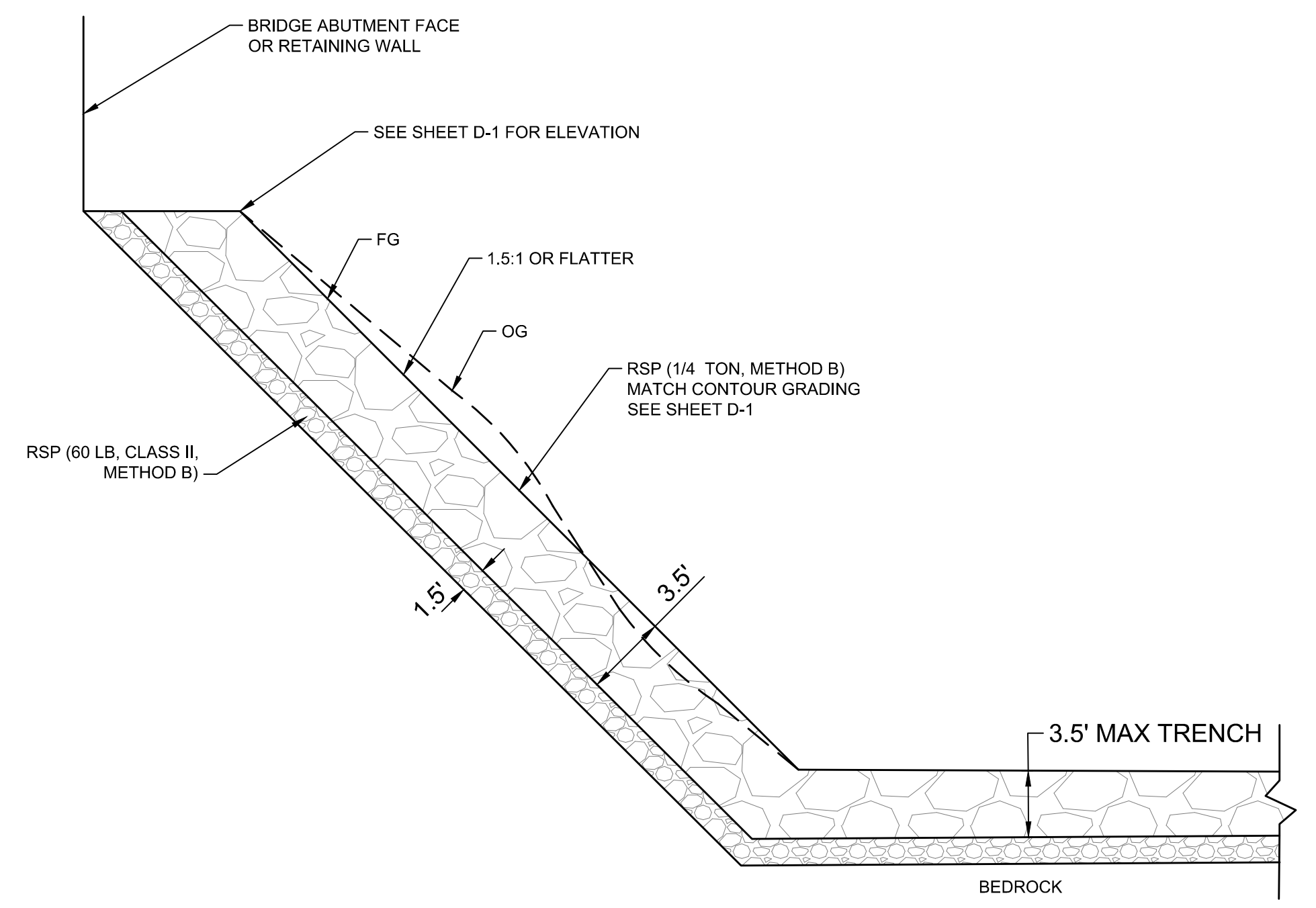
- SPLIT 4-RAIL FENCE NOTES:
 1. WOOD TYPE SHALL BE REDWOOD.
 2. ALL FENCE TO BE PAINTED WHITE TO MATCH EXISTING.
 3. REUSE EXISTING FENCE RAILS WHERE POSSIBLE.
 4. ALL FENCE POSTS AND FOOTINGS TO BE NEW.
 5. RAILS SHALL BE NAILED TO POSTS.



CONCRETE SWALE
NTS



SPLIT 4-RAIL FENCE
NTS

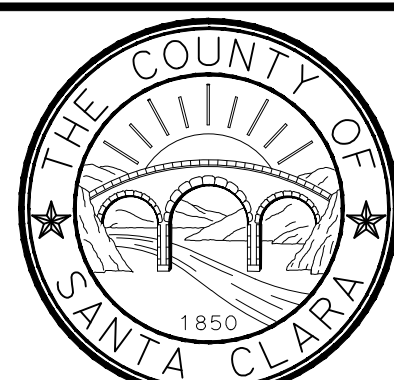


RSP
NTS

NOTE:
RSP SECTIONS SHOWN ARE TYPICAL FOR ALL RSP AREAS SHOWN.



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COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

LMG
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CHECKED

R6239
WORK ORDER
LINDA M. GREVERA
Civil Engineer
No. 43591

HARRY FREITAS
DIRECTOR

LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C-0096

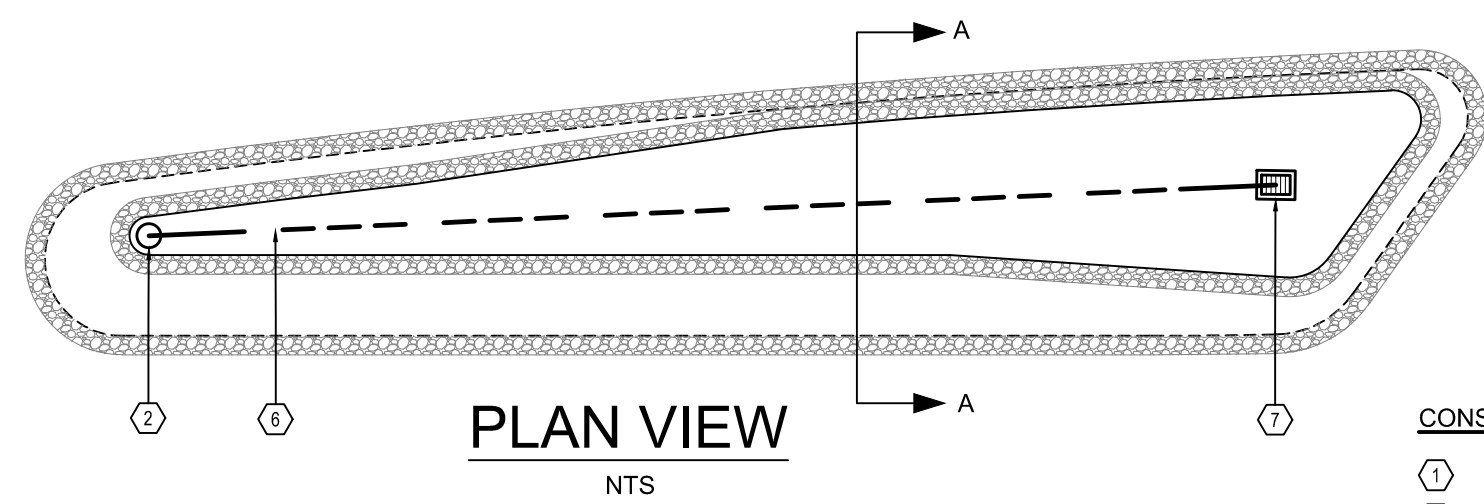
CONSTRUCTION DETAILS

PROJECT NO. **BRLO-5937(106)** CONTRACT NO. DATE.

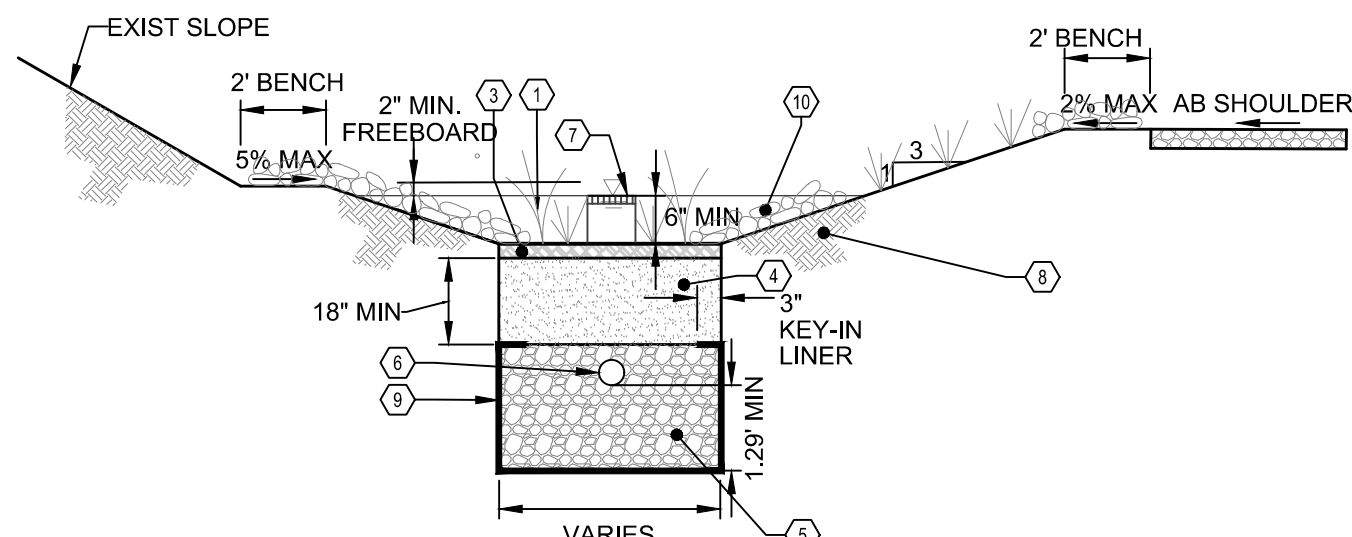
NO.	REVISIONS	BY	DATE	APP'D

DRAWING NO. **C-2**
SHT NO. **OF**

3745000D01.DWG



PLAN VIEW
NTS



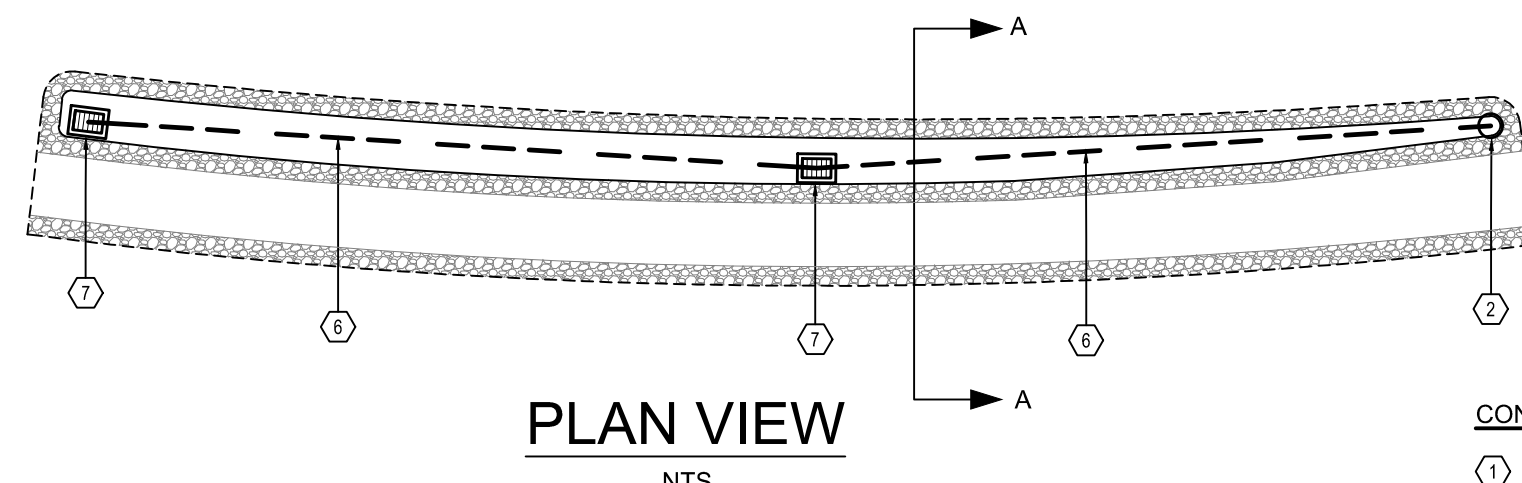
SECTION A-A
NTS

LEGEND

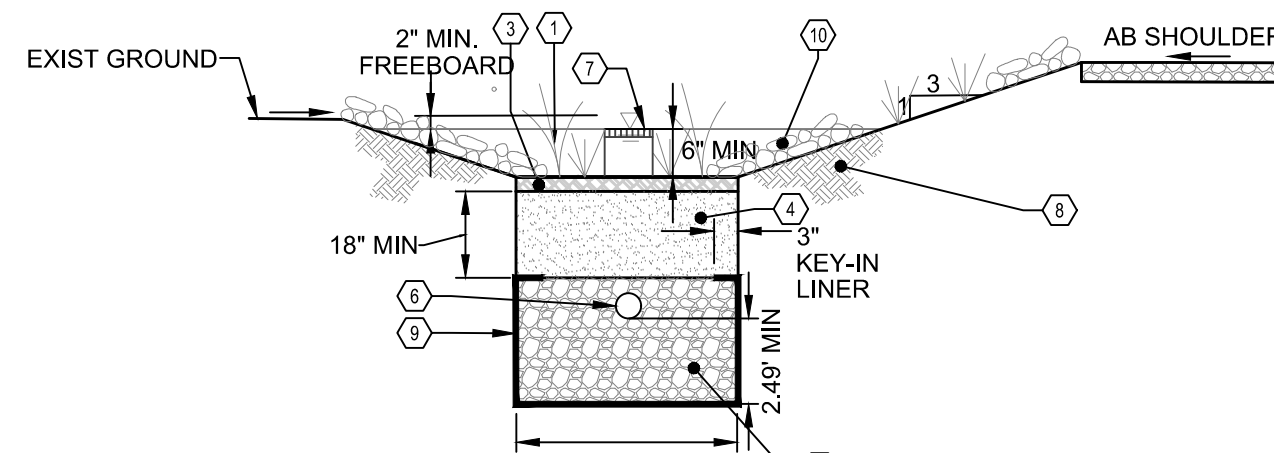
[Symbol]	MULCH/COMPOST LAYER
[Symbol]	BIORETENTION SOIL MEDIA (BSM)
[Symbol]	AGGREGATE
[Symbol]	NATIVE SOIL
[Symbol]	CONCRETE

CONSTRUCTION NOTES:

- ① PLANTING
- ② UNDERDRAIN STORM DRAIN CLEAN OUT, CONNECT TO STORM DRAIN SYSTEM
- ③ 2" LAYER OF COMPOSTED NON FLOATING MULCH, "MICRO BARK" AND "GORILLA HAIR" MAY NOT BE USED
- ④ BSM SOIL WITH PERCOLATION RATE OF 5-INCHES PER HOUR. SOIL TO CONFORM TO SOIL SPECIFICATIONS AS LISTED IN APPENDIX C OF THE C3 STORMWATER HANDBOOK.
- ⑤ CLASS II PERMEABLE ROCK PER CALTRANS STANDARDS
- ⑥ UNDERDRAIN, 4" PERFORATED PVC, SEE PLANS FOR SLOPES AND INVERTS, PERFORATIONS POINTING DOWN
- ⑦ OVERFLOW, CONNECT TO STORM DRAIN SYSTEM, SEE PLANS FOR SIZE AND MATERIAL
- ⑧ NATIVE SOIL, DO NOT COMPACT
- ⑨ LINE BOTTOM OF PLANTER WITH FILTER FABRIC
- ⑩ 3-INCH COBBLE



PLAN VIEW
NTS



SECTION A-A
NTS

LEGEND

[Symbol]	MULCH/COMPOST LAYER
[Symbol]	BIORETENTION SOIL MEDIA (BSM)
[Symbol]	AGGREGATE
[Symbol]	NATIVE SOIL
[Symbol]	CONCRETE

CONSTRUCTION NOTES:

- ① PLANTING
- ② UNDERDRAIN STORM DRAIN CLEAN OUT, CONNECT TO STORM DRAIN SYSTEM
- ③ 2" LAYER OF COMPOSTED NON FLOATING MULCH, "MICRO BARK" AND "GORILLA HAIR" MAY NOT BE USED
- ④ BSM SOIL WITH PERCOLATION RATE OF 5-INCHES PER HOUR. SOIL TO CONFORM TO SOIL SPECIFICATIONS AS LISTED IN APPENDIX C OF THE C3 STORMWATER HANDBOOK.
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- ⑥ UNDERDRAIN, 4" PERFORATED PVC, SEE PLANS FOR SLOPES AND INVERTS, PERFORATIONS POINTING DOWN
- ⑦ OVERFLOW, CONNECT TO STORM DRAIN SYSTEM, SEE PLANS FOR SIZE AND MATERIAL
- ⑧ NATIVE SOIL, DO NOT COMPACT
- ⑨ LINE BOTTOM OF PLANTER WITH FILTER FABRIC
- ⑩ 3-INCH COBBLE

ABBREVIATIONS

- TF1 TOP OF FOOTING 1
TF2 TOP OF FOOTING 2
TW TOP OF WALL

RETAINING WALL #1 ELEVATIONS

STATION	TW ELEV	TF1 ELEV	TF2 ELEV
14+60.02	582.00	573.5	--
14+85.54	582.01	573.5	572.5
15+05.00	582.05	572.5	571.5
15+24.31	582.10	571.5	--

RETAINING WALL #2 ELEVATIONS

STATION	TW ELEV	TF1 ELEV	TF2 ELEV
16+43.32	581.25	569.75	--
16+65.52	581.05	569.75	570.75
16+80.43	580.91	570.75	571.5
16+92.43	580.80	571.5	--

A BIORETENTION CELL

B BIORETENTION CELL

SEED MIX (TYPE 1)

Botanical Name (Common Name)	BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
Elymus glaucus, Santa Clara (Blue Wild Rye)	ELYMUS GLAUCUS, SANTA CLARA (BLUE WILD RYE)	60	12
Hordeum brachyantherum var. 'californicum' (California Meadow Barley)	HORDEUM BRACHYANTHERUM VAR. 'CALIFORNICUM' (CALIFORNIA MEADOW BARLEY)	55	8
Bromus carinatus, Santa Clara (California Brome)	BROMUS CARINATUS, SANTA CLARA (CALIFORNIA BROME)	65	16
Lupinus nanus Santa Clara (Sky Lupine)	LUPINUS NANUS SANTA CLARA (SKY LUPINE)	55	6
Trifolium willdenovii (Tom Cat Clover)	TRIFOLIUM WILLDENOVII (TOM CAT CLOVER)	60	4
Eschscholzia californica, (Alameda)	ESCHSCHOLZIA CALIFORNICA, (ALAMEDA)	50	2
Clarkia purpurea var quadrivularia (Purple Clarkia, Santa Clara)	CLARKIA PURPUREA VAR QUADRIVULARIA (PURPLE CLARKIA, SANTA CLARA)	50	1.5
Layia platyglossa (Tidy Tips San Mateo)	LAYIA PLATYGLOSSA (TIDY TIPS SAN MATEO)	35	2.5
Achillea millefolium (Native White Yarrow - San Mateo)	ACHILLEA MILLIFOLIUM (NATIVE WHITE YARROW - SAN MATEO)	60	1
Stipa pulchra (Purple Needlegrass)	STIPA PULCHRA (PURPLE NEEDLEGRASS)	55	6
Vulpia microstachys - San Mateo (Three Weeks Fescue)	VULPIA MICROSTACHYS - SAN MATEO (THREE WEEKS FESCUE)	55	8

SEED MIX (TYPE 2)

Botanical Name (Common Name)	BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
Elymus (Leymus) triticoides (Creeping Wildrye)	ELYMUS (LEYMUS) TRITICOIDES (CREEPING WILDRYE)	50	8
Elymus glaucus (Blue Wild Rye)	ELYMUS GLAUCUS (BLUE WILD RYE)	50	12
Hordeum brachyantherum (Meadow Barley)	HORDEUM BRACHYANTHERUM (MEADOW BARLEY)	50	12
Deschampsia caespitosa (Tuffed Hair Grass)	DESCHAMPSIA CAESPITOSA (TUFFED HAIR GRASS)	50	1
Agrostis pallens (Thin Grass)	AGROSTIS PALLENS (THIN GRASS)	30	4
Juncus patens (California Gray Rush)	JUNCUS PATENS (CALIFORNIA GRAY RUSH)	45	1
Cyperus eragrostis (Umbrella Plant)	CYPERUS ERAGROSTIS (UMBRELLA PLANT)	50	1.5
Carex praegracilis (Deer Bed Sedge)	CAREX PRAEGRACILIS (DEER BED SEDGE)	30	1.5
Deschampsia danthonioides (Annual Hairgrass)	DESCHAMPSIA DANTHONIOIDES (ANNUAL HAIRGRASS)	25	6



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COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

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EMF DRAWN	DATE	LEVEL BOOK
JC CHECKED	DATE	TRANSIT BOOK

SUBMITTED:
LINDA M. GREVERA
Civil Engineer



APPROVAL:
HARRY FREITAS
DIRECTOR

LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C-0096

CONSTRUCTION DETAILS

PROJECT NO. BRLO-5937(106) CONTRACT NO. DATE.

DRAWING NO.

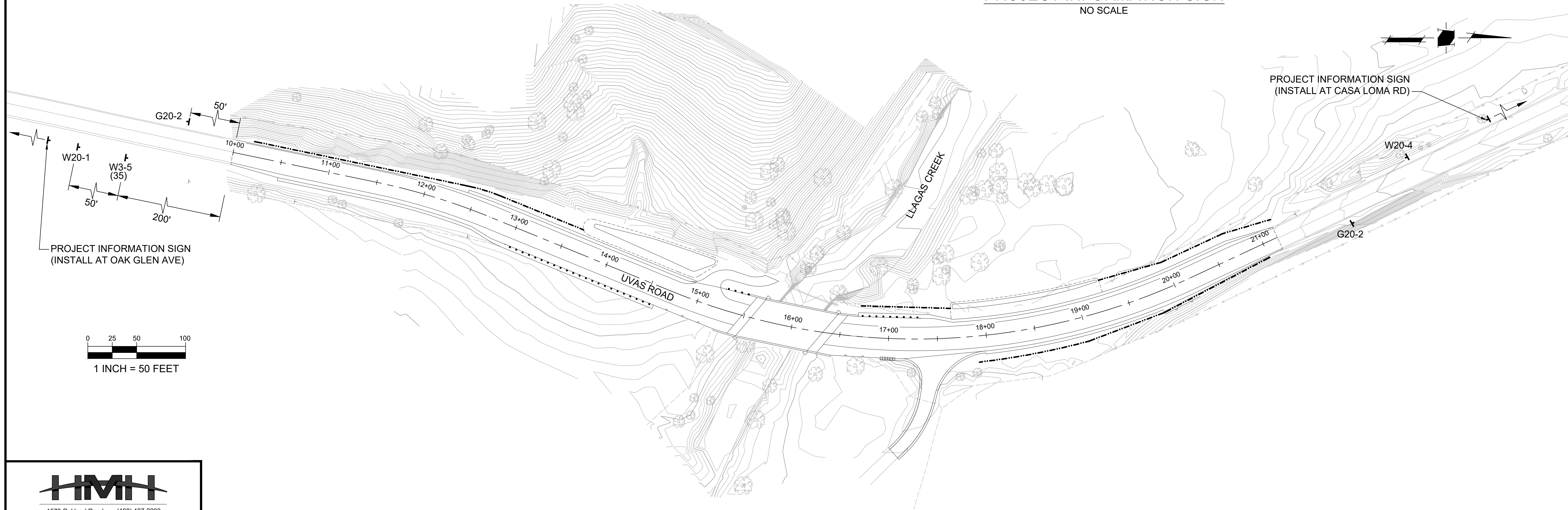
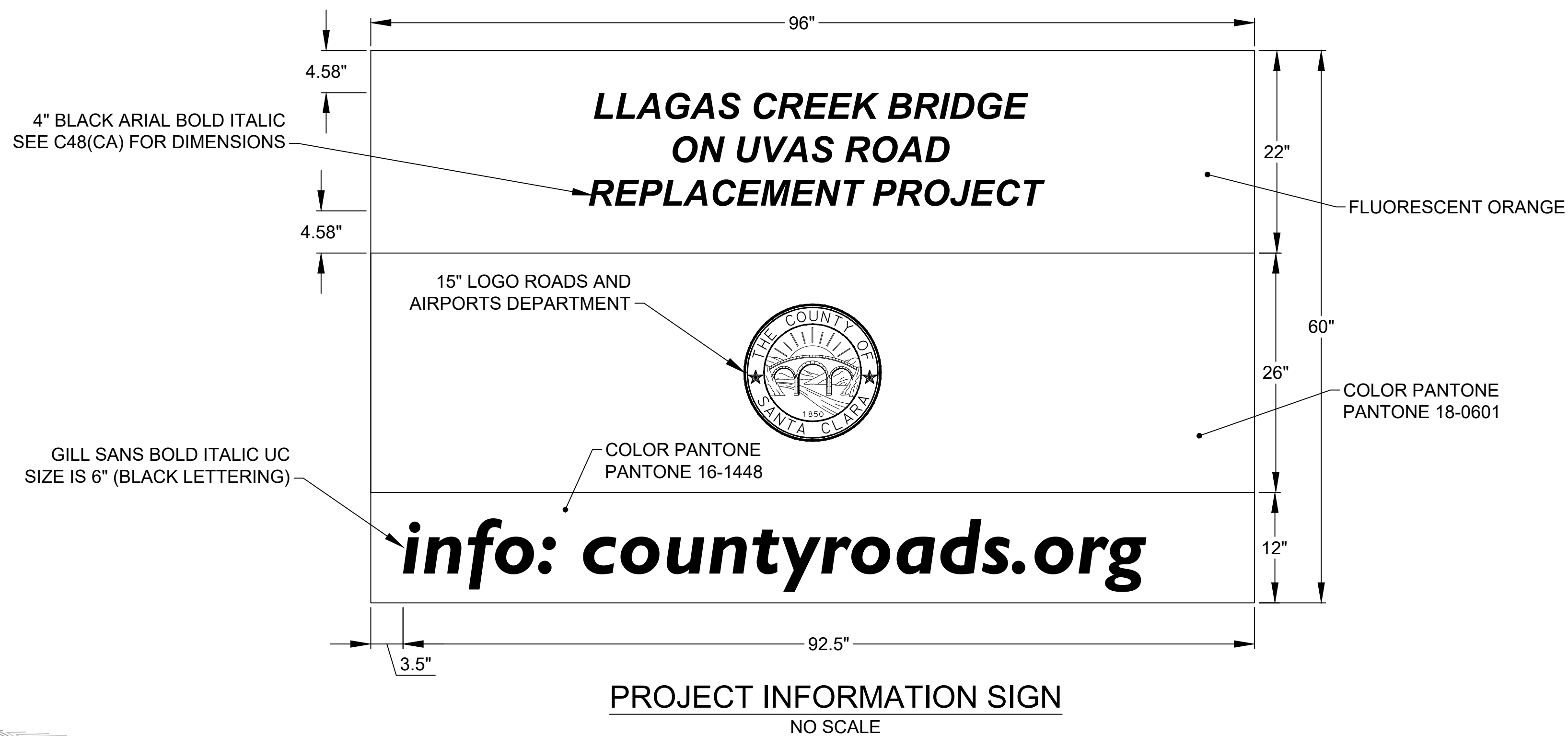
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SHT NO.

OF

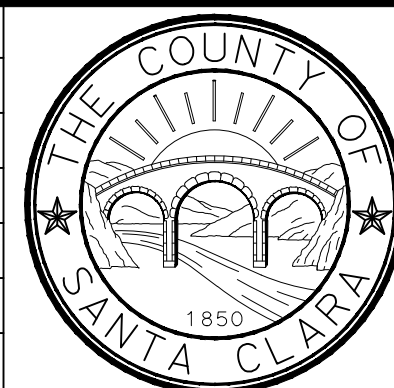
NOTES:

1. LOCATION OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.
2. CONSTRUCTION AREA SIGNS ARE STATIONARY MOUNTED, UNLESS OTHERWISE NOTED.
3. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE CALTRANS STD PLANS REFERENCED ON TRAFFIC HANDLING PLANS.



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Civil Engineer



APPROVAL:
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DIRECTOR

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BRIDGE No. 37C-0096

CONSTRUCTION AREA SIGNS

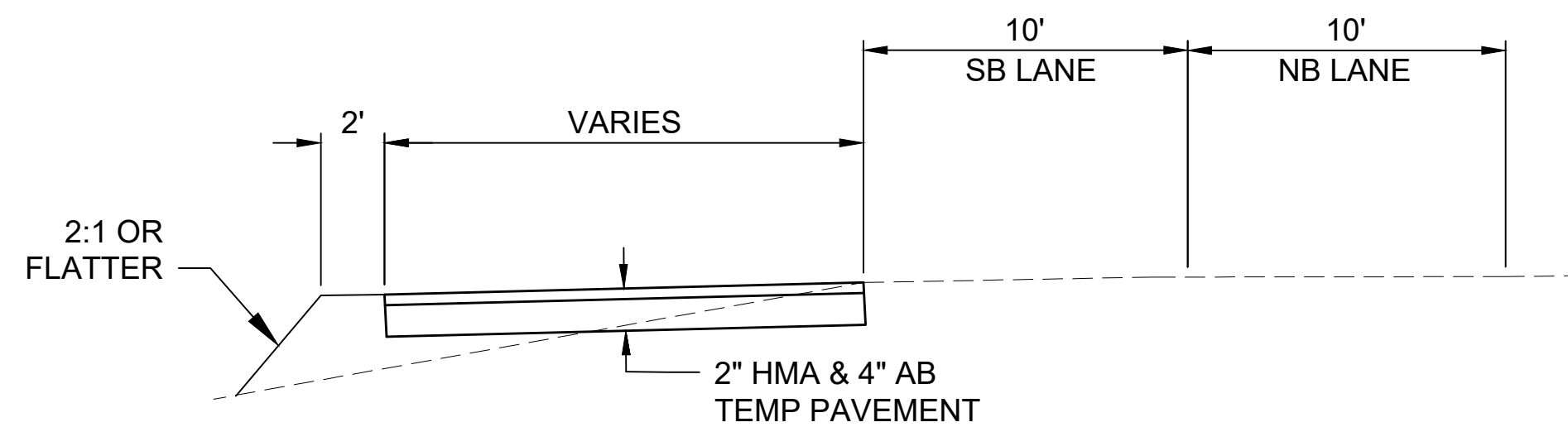
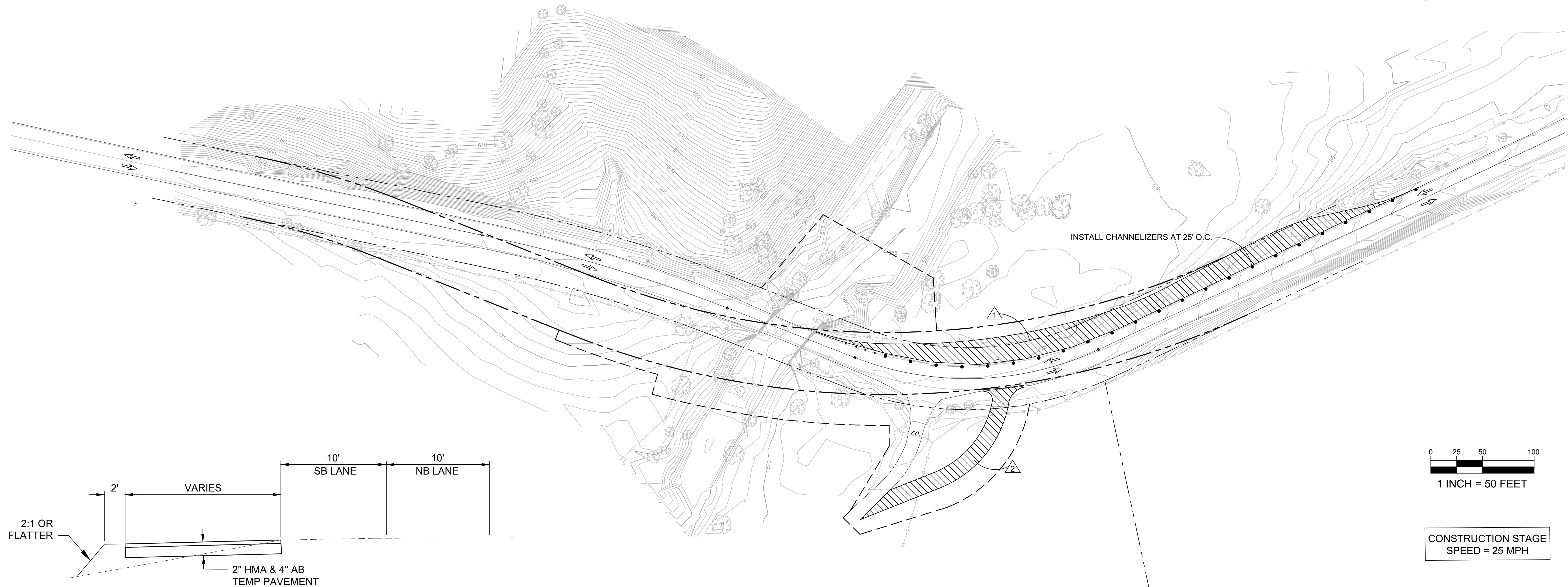
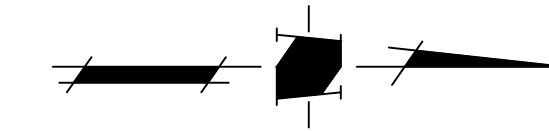
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3745000301.DWG

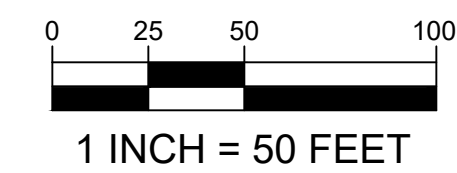
NOTE:

INSTALL SIGNS IN SB DIRECTION PER STD PLAN T11, EXCEPT USE "SHOULDER CLOSED AHEAD"



CONSTRUCTION STAGING - STAGE 1

NTS



CONSTRUCTION STAGE
SPEED = 25 MPH

CONSTRUCTION THIS PHASE

- ① CONSTRUCT TEMPORARY PAVEMENT (2" AC ON 4" AB) 24' WEST BEYOND THE EXISTING EDGE OF TRAVEL WAY
- ② CONSTRUCT TEMPORARY DWY (6" AB) ACCESS, INCLUDING REMOVE PORTION OF EXISTING FENCE, PROTECT EXISTING TREES AND REGRADE PATH OF PROPOSED TEMPORARY DWY AS NEEDED

NOTES:

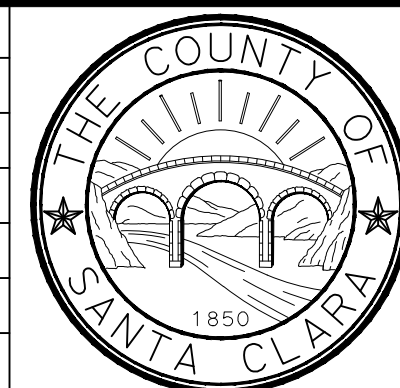
- 1. ALL CONSTRUCTION STAGING SHALL HAVE A POSTED SPEED = 25 MPH

LEGEND

- CONSTRUCTION AREA THIS PHASE
- CHANNELIZERS
- DIRECTION OF VEHICLE TRAFFIC
- CONSTRUCTION NOTE
- PAVEMENT DELINEATION DETAIL



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LEVEL BOOK
TRANSIT BOOK

SUBMITTED:
LINDA M. GREVERA
Civil Engineer



APPROVAL:
HARRY FREITAS
DIRECTOR

LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C-0096

TRAFFIC HANDLING PLAN - STAGE 1

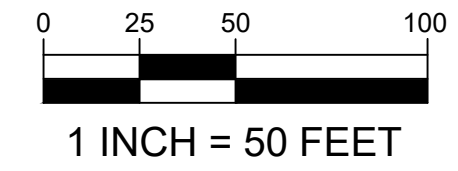
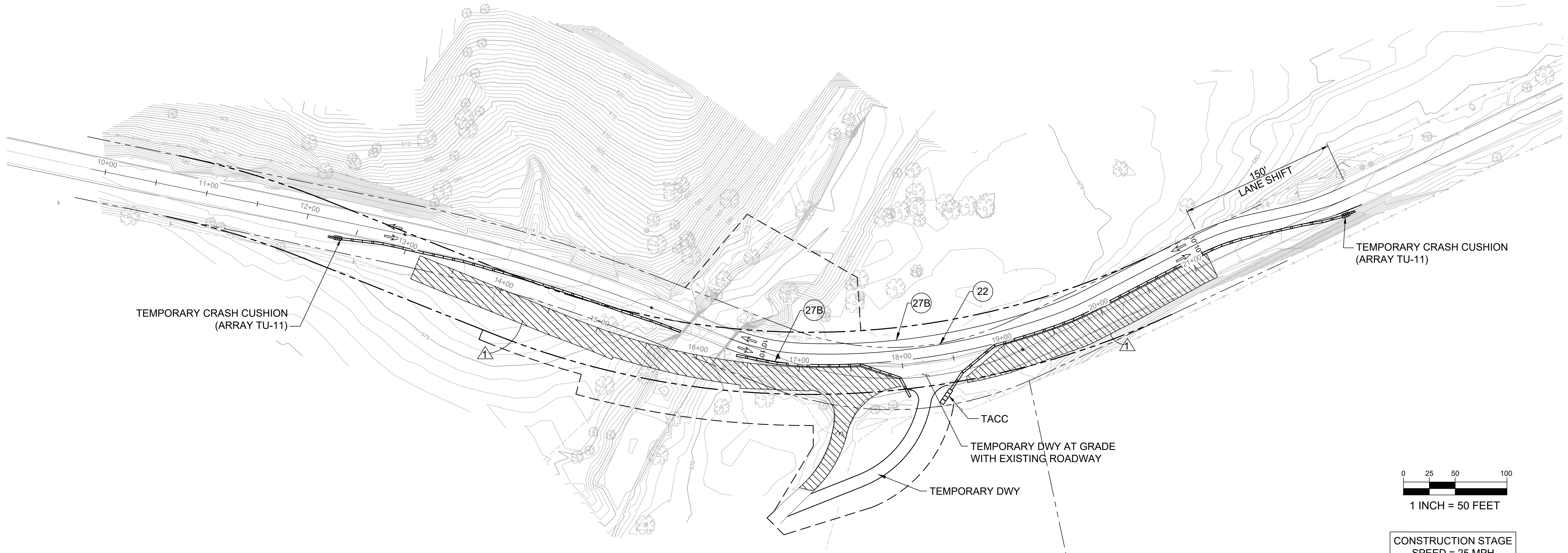
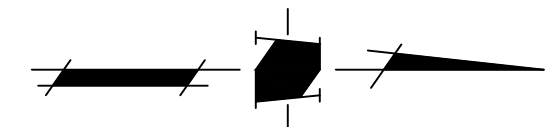
PROJECT NO. **BRL0-5937(106)** CONTRACT NO. DATE.

DRAWING NO.
TH-1
SHT NO.
OF

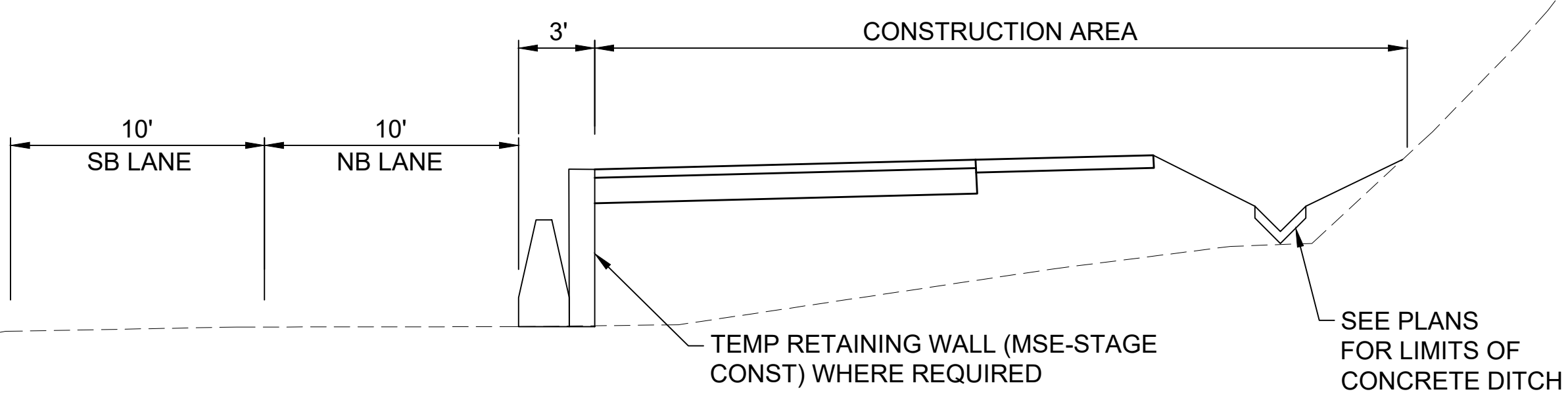
NO.	REVISIONS	BY	DATE	APP'D

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NOTE:
SHOULDER CLOSURE WITH SIGNS (3) PER CALTRANS STD PLAN T-10.



CONSTRUCTION STAGE
SPEED = 25 MPH

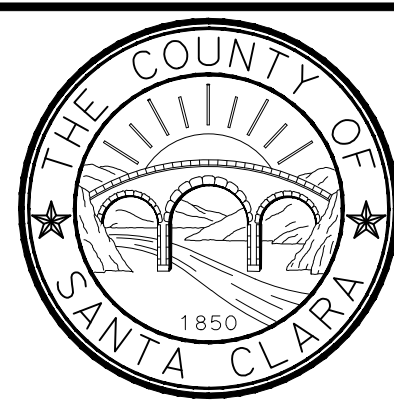


CONSTRUCTION THIS PHASE

- 1. REMOVE EXISTING ROADWAY, CONSTRUCT EAST HALF OF UVAS ROAD AND BRIDGE. MAINTAIN 2- 10' LANES OPEN DURING CONSTRUCTION AT THIS PHASE. REGRADE EXISTING DRIVEWAY, BUILD RETAINING WALLS AND CONCRETE SWALE. REBUILD EXISTING WOOD FENCE AND REPLACE EXISTING GATE AT DRIVEWAY.

NOTE:
1. ALL CONSTRUCTION STAGING SHALL HAVE A POSTED SPEED = 25 MPH

- LEGEND**
- CONSTRUCTION AREA THIS PHASE
 - CHANNELIZERS
 - TEMPORARY RAILING (TYPE K)
 - TACC (TEMP ALTERNATIVE CRASH CUSHION)
 - DIRECTION OF VEHICLE TRAFFIC
 - CONSTRUCTION NOTE
 - PAVEMENT DELINEATION DETAIL



COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT			
DESIGNED LMG	DATE	WORK ORDER R6239	SUBMITTED BY LINDA M. GREVERA Civil Engineer
DRAWN BB	DATE	LEVEL BOOK	APPROVAL BY HARRY FREITAS DIRECTOR
CHECKED JC	DATE	TRANSIT BOOK	

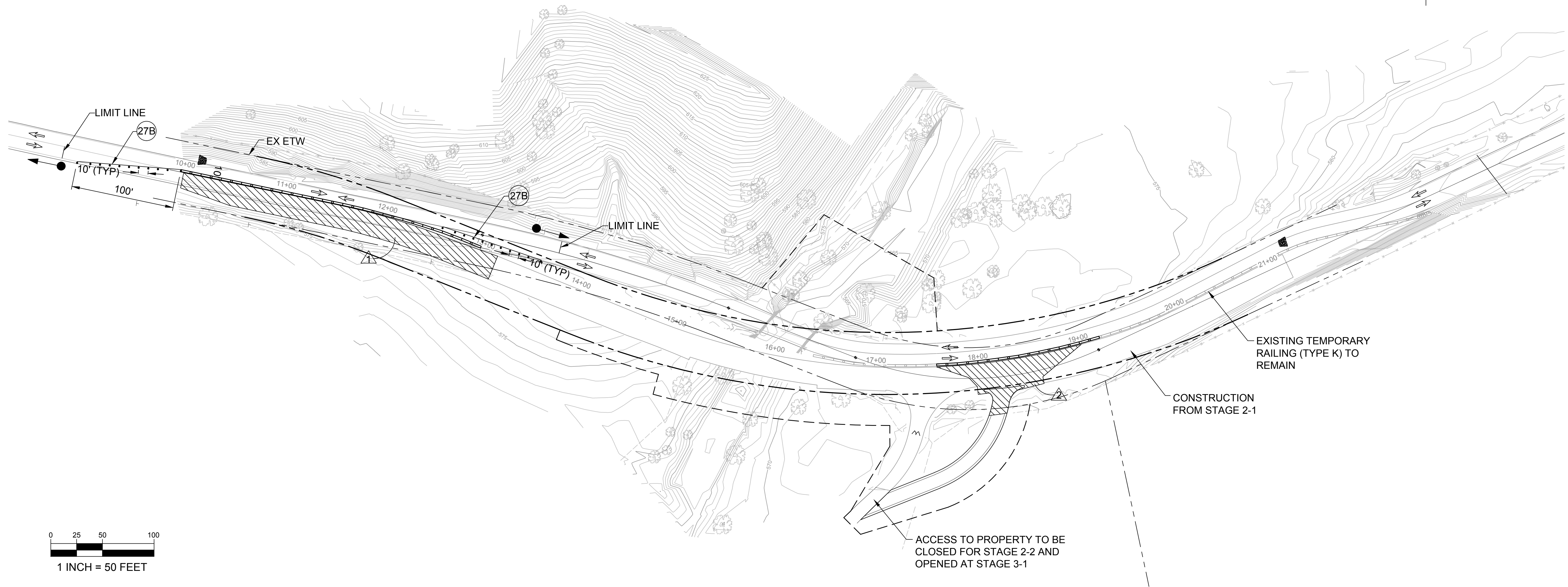
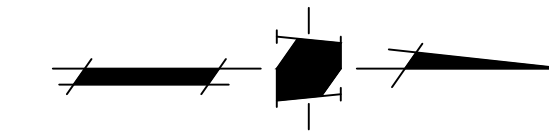


LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT) BRIDGE No. 37C-0096			DRAWING NO. TH-2
TRAFFIC HANDLING PLAN - STAGE 2-1			SHT NO. OF
PROJECT NO. BRLO-5937(106)	CONTRACT NO.	DATE.	

NO.	REVISIONS	BY	DATE	APP'D

374609C02.DWG

NOTE:
INSTALL SIGNS PER CALTRANS STD PLAN T-13.



0 25 50 100
1 INCH = 50 FEET

CONSTRUCTION STAGE
SPEED = 25 MPH

CONSTRUCTION THIS PHASE

WITHIN A MAXIMUM OF 5 CONSECUTIVE WEEKDAY WORKING DAYS,
COMPLETE CONSTRUCTION OF THE FOLLOWING WORK:

- 1 REMOVE EXISTING AC ROADWAY, CONSTRUCT THE REMAINING EAST SIDE OF UVAS ROAD. REDUCE PORTION OF EXISTING UVAS ROAD TO 1-ONE WAY 10' LANE AND PLACE TEMPORARY TRAFFIC SIGNAL SYSTEM AT BOTH ENDS TO CONTROL TRAFFIC.
- 2 CLOSE TEMPORARY ACCESS TO PROPERTY, PLACE K-RAILING, REMOVE EXISTING ROAD, CONSTRUCT NEW STRUCTURAL SECTION.

NOTES

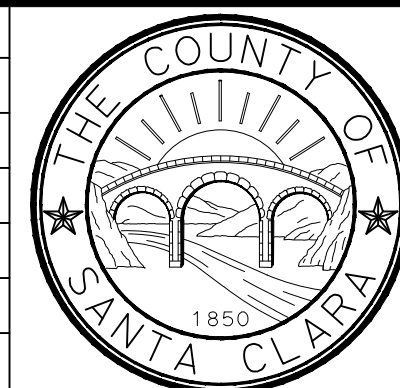
- 1. ALL CONSTRUCTION STAGING SHALL HAVE A POSTED SPEED = 25 MPH.
- 2. TEMPORARY DRIVEWAY SHALL NOT BE ACCESSIBLE DURING THIS STAGE.

LEGEND

- CONSTRUCTION AREA THIS PHASE
- CHANNELIZERS
- TEMPORARY RAILING (TYPE K)
- DIRECTION OF VEHICLE TRAFFIC
- CONSTRUCTION NOTE
- PAVEMENT DELINEATION DETAIL
- TEMPORARY TRAFFIC SIGNAL SYSTEM



1570 Oakland Road (408) 487-2200
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COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

LMG DESIGNED DATE
BB DRAWN DATE
JC CHECKED DATE

R6239 WORK ORDER
LINDA M. GREVERA Civil Engineer



APPROVAL: HARRY FREITAS DIRECTOR

**LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C-0096**

TRAFFIC HANDLING PLAN - STAGE 2-2

DRAWING NO.
TH-3

SHT NO.
OF

PROJECT NO. **BRLO-5937(106)**

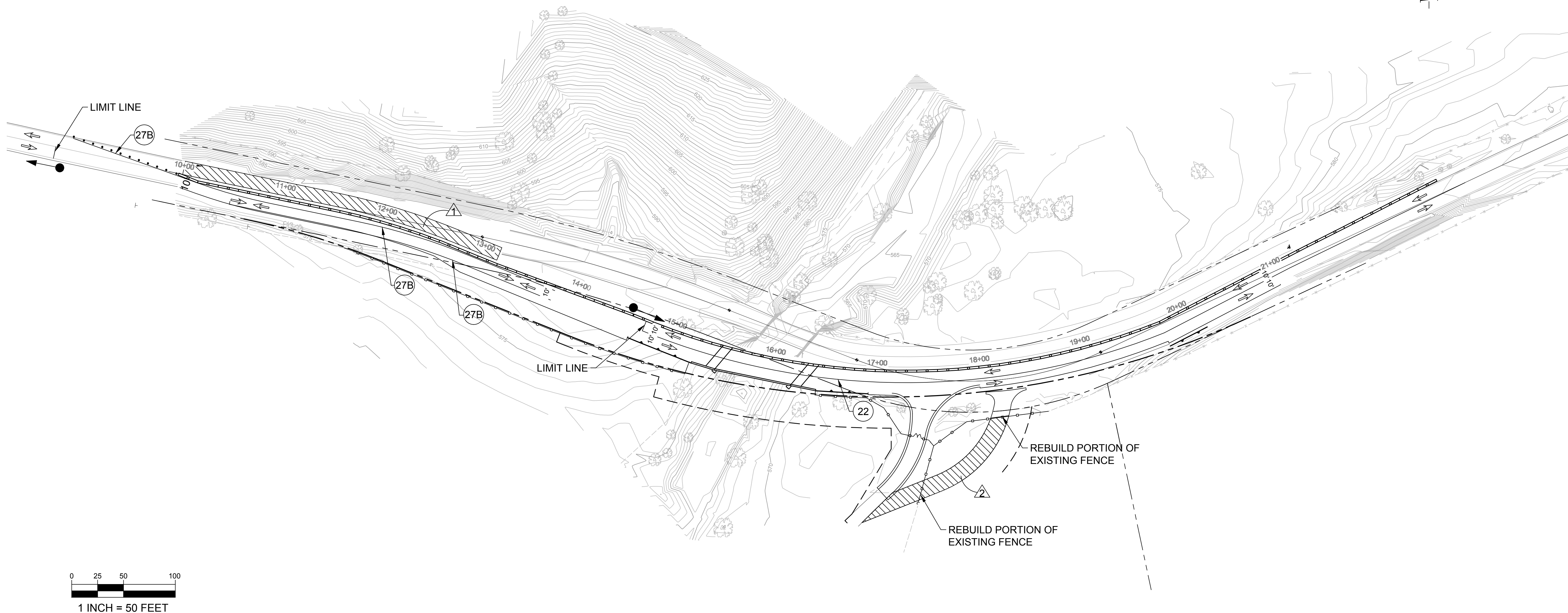
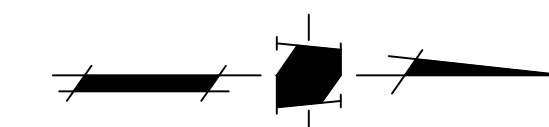
CONTRACT NO.

DATE.

NO.	REVISIONS	BY	DATE	APP'D

37460603.DWG

NOTE:
INSTALL SIGNS PER CALTRANS STD PLAN T-13.



CONSTRUCTION STAGE
SPEED = 25 MPH

CONSTRUCTION THIS PHASE

- 1 SWITCH TRAFFIC TO EAST SIDE OF UVAS ROAD. REDUCE TO 1- ONE WAY 10' LANE NEAR THE SOUTH SIDE CONFORM WITH TEMPORARY TRAFFIC SIGNAL SYSTEM CONTROL TRAFFIC. REMOVE EXISTING ROADWAY, BUILD WEST PAVEMENT OF UVAS ROAD.
- 2 REMOVE TEMPORARY DRIVEWAY. REBUILD PORTION OF EXISTING FENCE REMOVED DURING STAGE 1. REGRADE TEMPORARY DRIVEWAY PATH TO MATCH EXISTING CONDITIONS.

NOTES

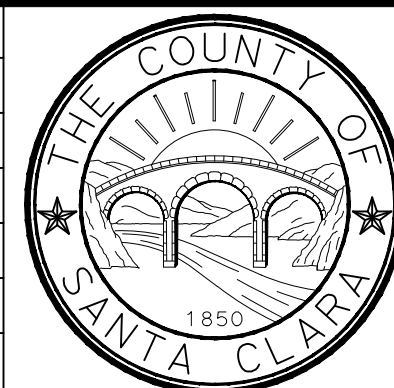
- 1. CONSTRUCTION STAGING SHALL HAVE A POSTED SPEED = 25 MPH
- 2. EAST SHOULDER OF UVAS ROAD SHALL BE USED AS A TEMPORARY DRIVABLE SURFACE FOR THIS STAGE

LEGEND

- CONSTRUCTION AREA THIS PHASE
- CHANNELIZERS
- TEMPORARY RAILING (TYPE K)
- DIRECTION OF VEHICLE TRAFFIC
- CONSTRUCTION NOTE
- PAVEMENT DELINEATION DETAIL
- TEMPORARY TRAFFIC SIGNAL SYSTEM



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COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

LMG DESIGNED DATE
BB DRAWN DATE
JC CHECKED DATE

R6239 WORK ORDER
LINDA M. GREVERA Civil Engineer



HARRY FREITAS DIRECTOR

LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C-0096

TRAFFIC HANDLING PLAN - STAGE 2-3

PROJECT NO. BRLO-5937(106)

CONTRACT NO.

DATE

DRAWING NO.

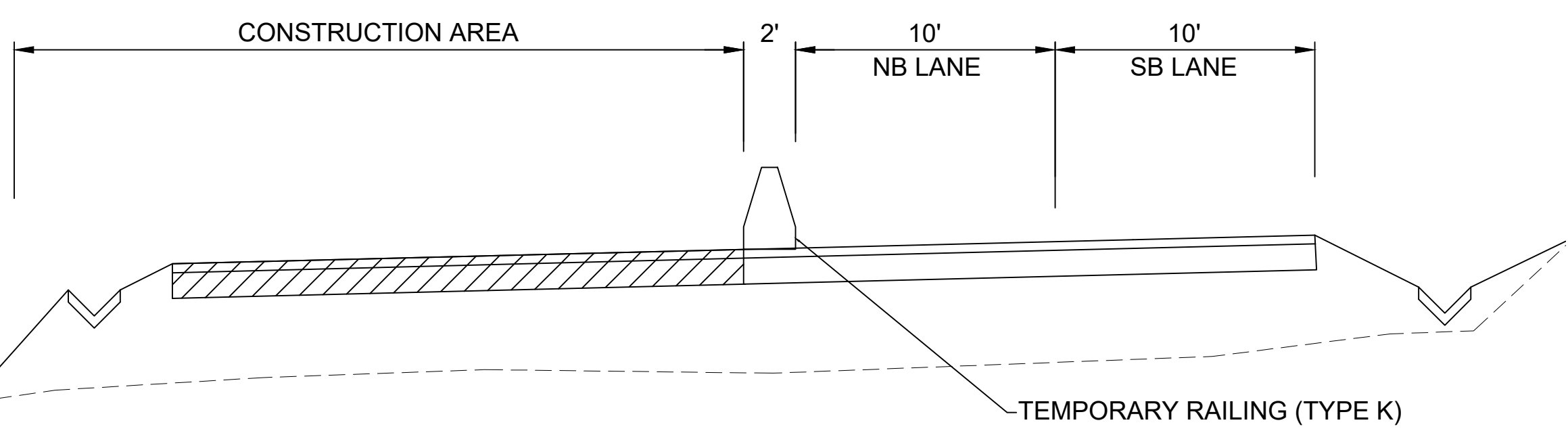
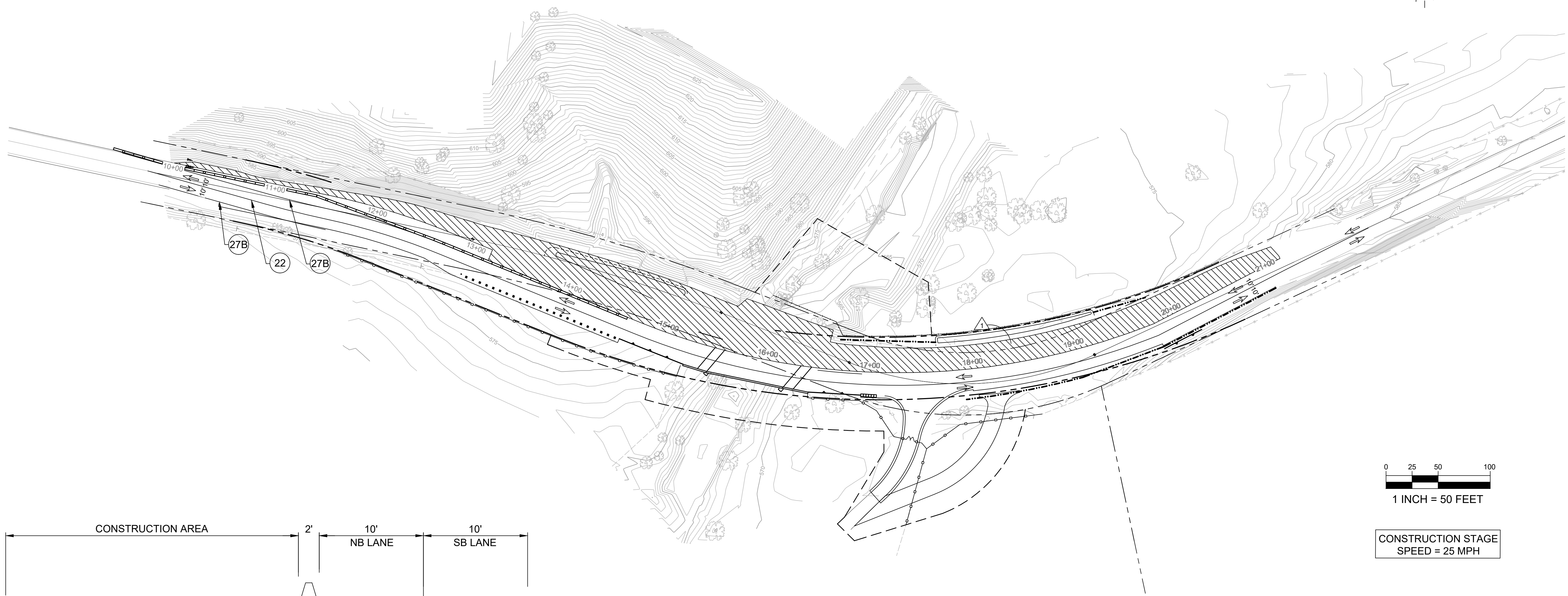
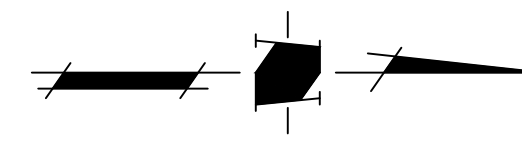
TH-4

SHT NO.

OF

NO.	REVISIONS	BY	DATE	APP'D

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CONSTRUCTION STAGING - STAGE 2-4
NTS



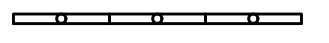



CONSTRUCTION THIS PHASE

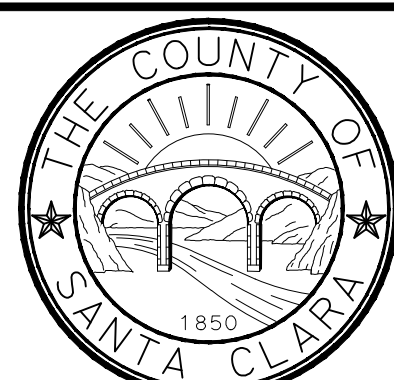
- 1. USE CONSTRUCTION FROM PREVIOUS STAGE TO ALLOW FOR 2- 10' LANES ON THE EAST SIDE OF UVAS ROAD. REMOVE EXISTING PAVEMENT, EXISTING BRIDGE AND TEMPORARY PAVEMENT. BUILD WEST SIDE OF UVAS ROAD, WEST SIDE OF BRIDGE, CREEK IMPROVEMENTS, AND BUILD PROPOSED SWALES.

NOTES

- 1. ALL CONSTRUCTION STAGING SHALL HAVE A POSTED SPEED = 25 MPH

LEGEND

-  CONSTRUCTION AREA THIS PHASE
-  CHANNELIZERS
-  TEMPORARY RAILING (TYPE K)
-  DIRECTION OF VEHICLE TRAFFIC
-  CONSTRUCTION NOTE
-  PAVEMENT DELINEATION DETAIL



COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

LMG	DESIGNED	DATE	R6239	WORK ORDER
BB	DRAWN	DATE	LEVEL BOOK	
JC	CHECKED	DATE	TRANSIT BOOK	

SUBMITTED:
LINDA M. GREVERA
Civil Engineer



APPROVAL:
HARRY FREITAS
DIRECTOR

**LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C-0096**

TRAFFIC HANDLING PLAN - STAGE 2-4

DRAWING NO.
TH-5
SHT NO.
OF

NO.	REVISIONS	BY	DATE	APP'D

PROJECT NO. BRLO-5937(106)	CONTRACT NO.	DATE.
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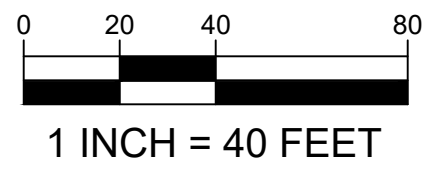
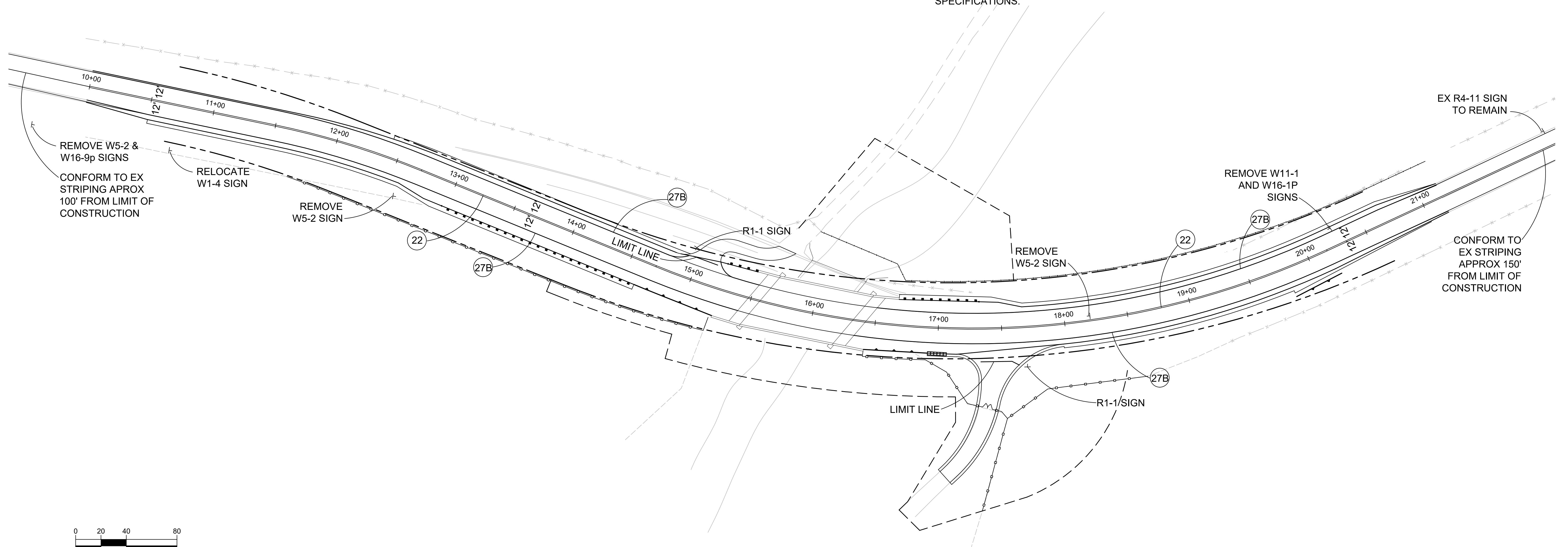
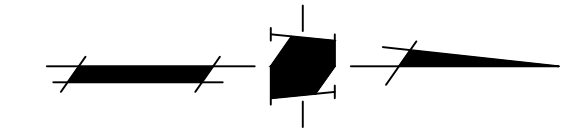
37460606.DWG

SIGNING AND STRIPING NOTES

LEGEND

1. ALL WORK SHALL CONFORM WITH THE CALTRANS STANDARD PLANS AND SPECIFICATIONS DATED 2010
2. CONTRACTOR SHALL COORDINATE ALL STRIPING AND SIGNING WITH COUNTY INSPECTORS PRIOR TO INSTALLATION.
3. CONTRACTOR TO REMOVE EXISTING PAVEMENT DELINEATION, MARKERS AND SIGNAGE THAT CONFLICTS WITH THIS PLAN.
4. ALL STRIPING AND PAVEMENT MARKINGS TO BE THERMOPLASTIC PER PROJECT SPECIFICATIONS.

(No.) PAVEMENT DELINEATION
DETAIL NUMBER



1570 Oakland Road (408) 487-2200
San Jose, CA 95131 HMHca.com

NO.	REVISIONS	BY	DATE	APP'D



COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

LMG DESIGNED	R6239 WORK ORDER	LINDA M. GREVERA Civil Engineer
BB DRAWN	JC CHECKED	HARRY FREITAS DIRECTOR
DATE	DATE	DATE
DATE	DATE	DATE
DATE	DATE	DATE



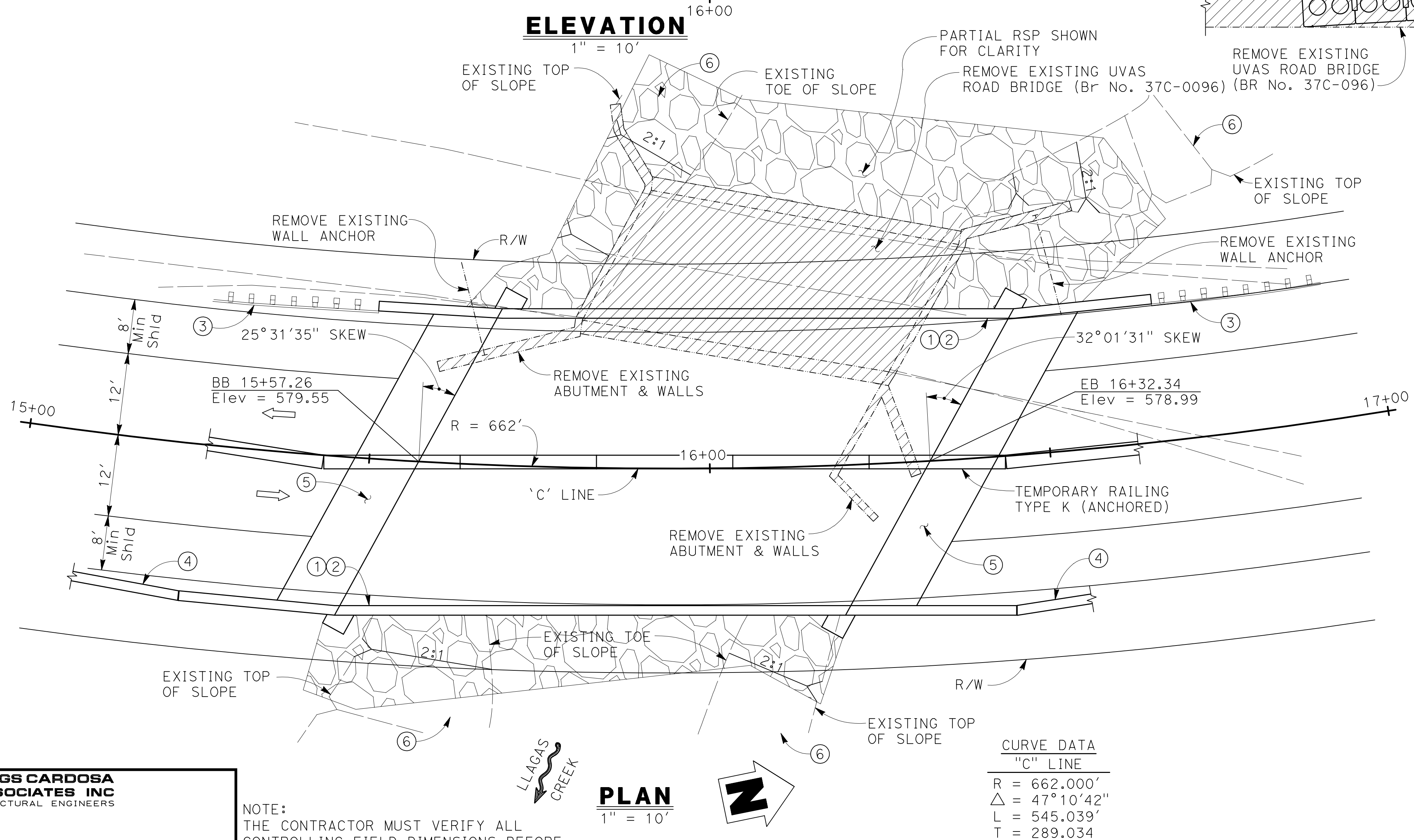
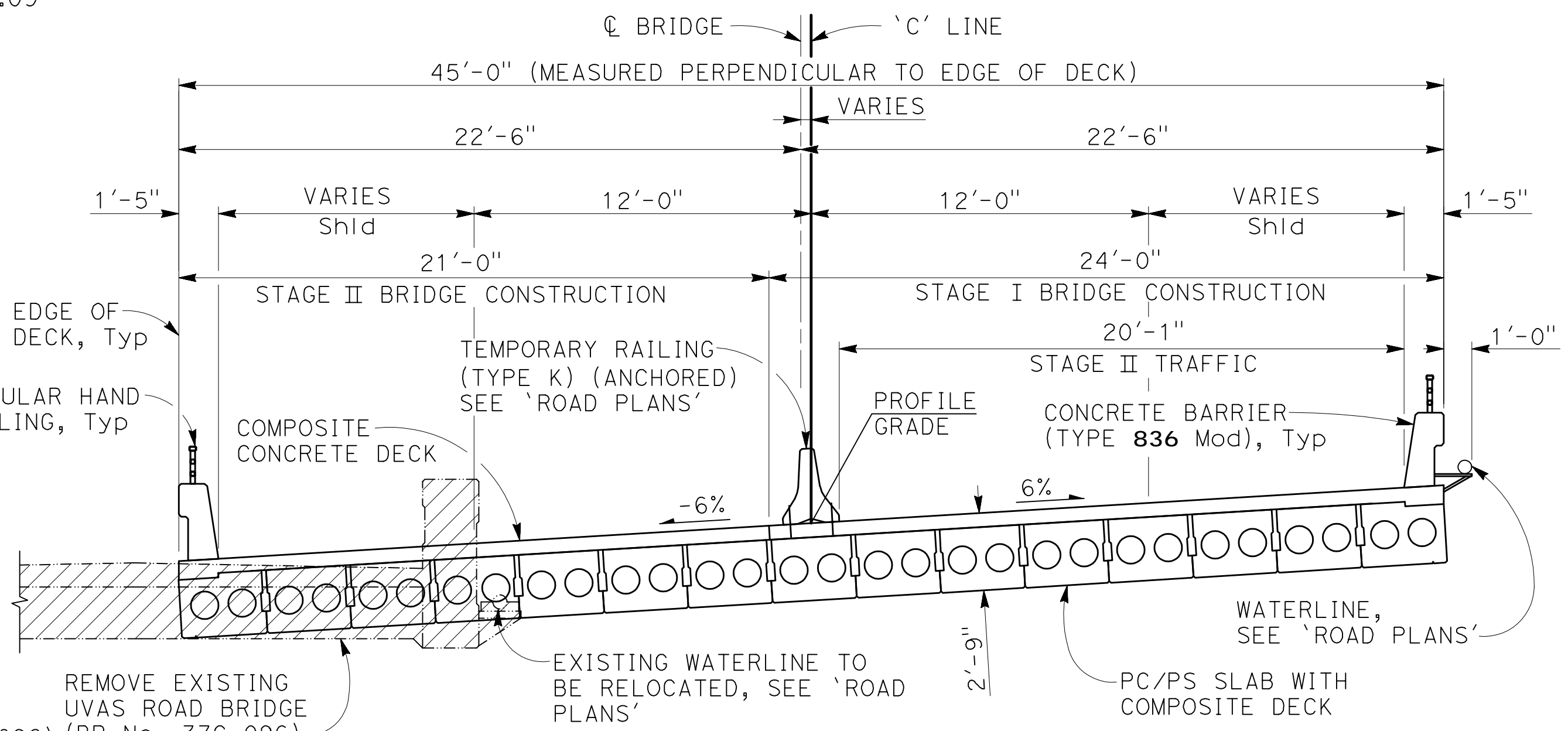
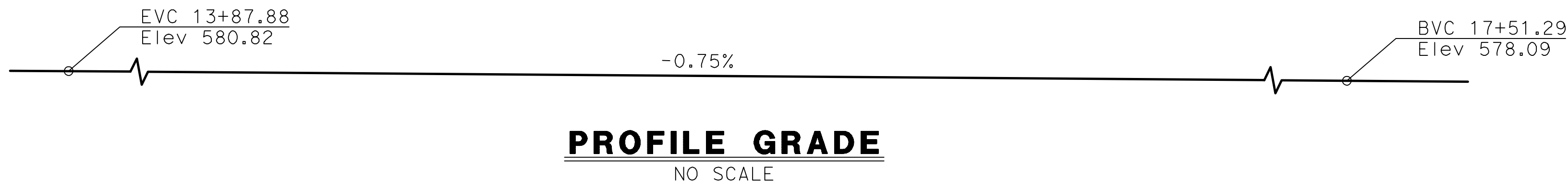
**LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C-0096**

SIGNING AND STRIPING PLAN

PROJECT NO. **BRLO-5937(106)** CONTRACT NO. _____ DATE _____

DRAWING NO.	PD-1
SHT NO.	OF

37460PDD01.DWG



TYPICAL SECTION
1/4" = 1'-0"

- NOTES:
- Paint 'LLAGAS CREEK BRIDGE ON UVAS ROAD'
 - Paint 'BRIDGE No. 37C0602'
 - Metal Beam Guard Railing, see 'ROAD PLANS'
 - Retaining Wall, see 'ROAD PLANS'
 - Structure Approach Type EQ(10)
 - Rock Slope Protection, see 'ROAD PLANS'
 - For Index to Bridge Plans & General Notes, see "DECK CONTOURS" sheet
 - For Pile Data Table, see "FOUNDATION PLAN" sheet
 - For Bench Mark & Datum, see "FOUNDATION PLAN" sheet
 - For Bridge Stage Construction, see "STAGE CONSTRUCTION DETAILS" sheet

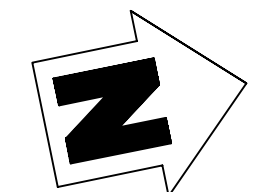
- LEGEND:
- Indicates existing structure
 - ▨ Indicates Bridge Removal
 - ▽ Indicates 100 year high water (Elev 572.34±)
 - ⇒ Indicates Traffic Direction

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

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL



PLAN
1" = 10"

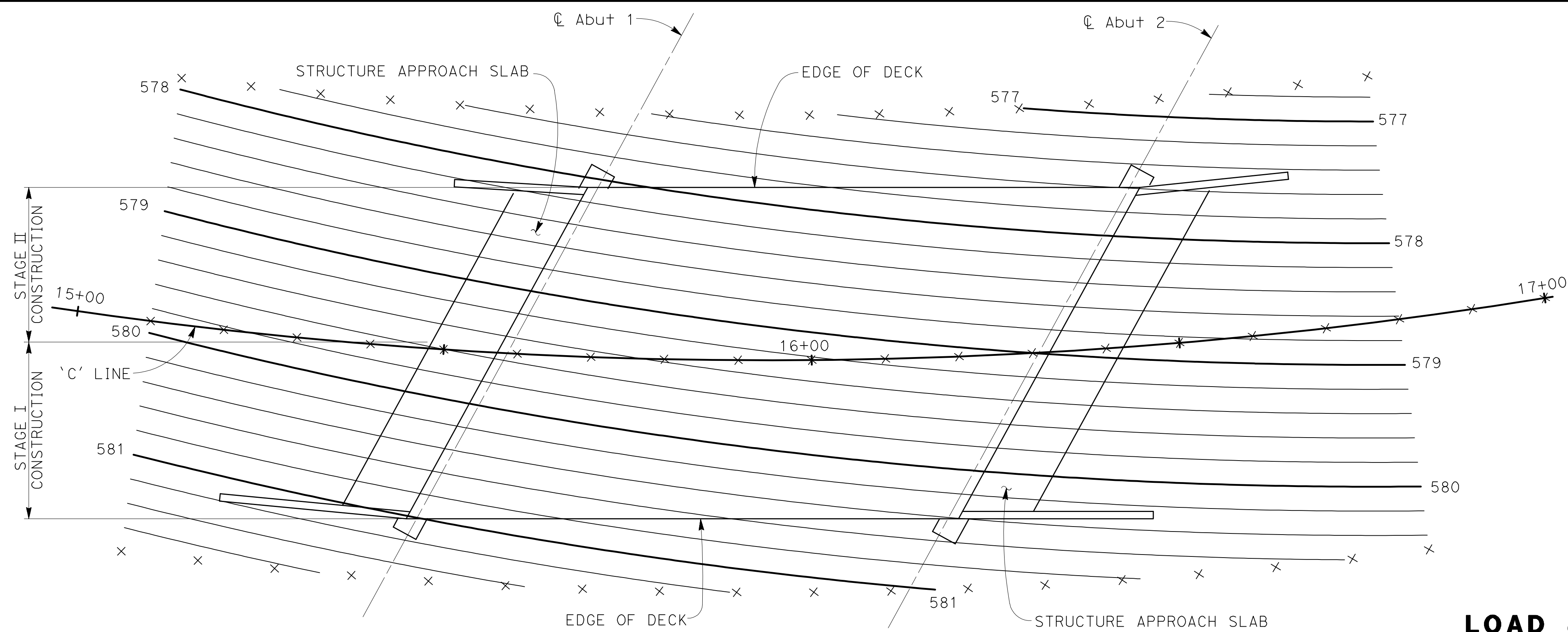


CURVE DATA
"C" LINE
R = 662.000'
Δ = 47°10'42"
L = 545.039'
T = 289.034

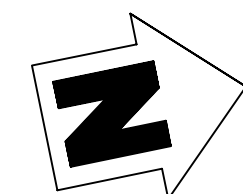
PLAN CHECK SET/NOT FOR CONSTRUCTION (9/1/20)

			COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT			LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT) BRIDGE No. 37C0602			DRAWING NO. S-1	
NAV 9/1/2020 DESIGNED DATE JCL 9/1/2020 DRAWN DATE CV 9/1/2020 CHECKED DATE			WORK ORDER LEVEL BOOK TRANSIT BOOK			SUBMITTED BY MAHVASH M. HARMS Structural Engineer			APPROVAL:	
B 95% DESIGN SUBMITTAL NAV 9/1/20 CV A 65% PRELIMINARY DESIGN SUBMITTAL SOO 2/25/13 CV						GENERAL PLAN			SHEET NO. 20 OF 38	
PROJECT NO. BRLO-5937(106)			CONTRACT NO.			DATE 9/1/20				

2008149



PLAN
1" = 10'



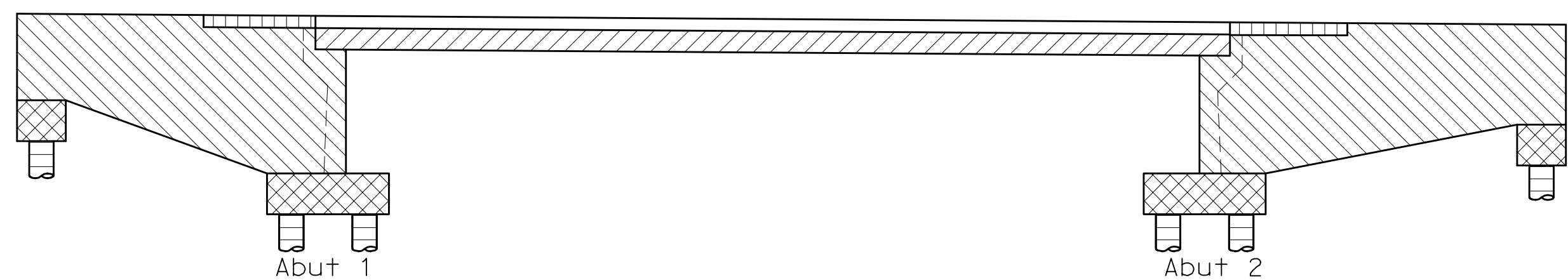
INDEX TO BRIDGE PLANS

SHEET NO.	TITLE
S-1	GENERAL PLAN
S-2	DECK CONTOURS
S-3	FOUNDATION PLAN
S-4	STAGE CONSTRUCTION DETAILS
S-5	ABUTMENT 1 PLAN AND ELEVATION
S-6	ABUTMENT 2 PLAN AND ELEVATION
S-7	ABUTMENT DETAILS No. 1
S-8	ABUTMENT DETAILS No. 2
S-9	ABUTMENT DETAILS No. 3
S-10	ABUTMENT DETAILS No. 4
S-11	ABUTMENT DETAILS No. 5
S-12	TYPICAL SECTION
S-13	COMPOSITE CONCRETE DECK REINFORCEMENT
S-14	PC/PS CONCRETE DECK UNIT DETAILS No. 1
S-15	PC/PS CONCRETE DECK UNIT DETAILS No. 2
S-16	STRUCTURE APPROACH TYPE EQ(10)
S-17	STRUCTURE APPROACH DRAINAGE DETAILS
S-18	TEMPORARY CREEK DIVERSION
S-19	LOG OF TEST BORINGS

**GENERAL NOTES
LOAD & RESISTANCE FACTOR DESIGN**

DESIGN: AASHTO LRFD Bridge Design Specifications, 6th Edition with California Amendments, preface dated January 2014.

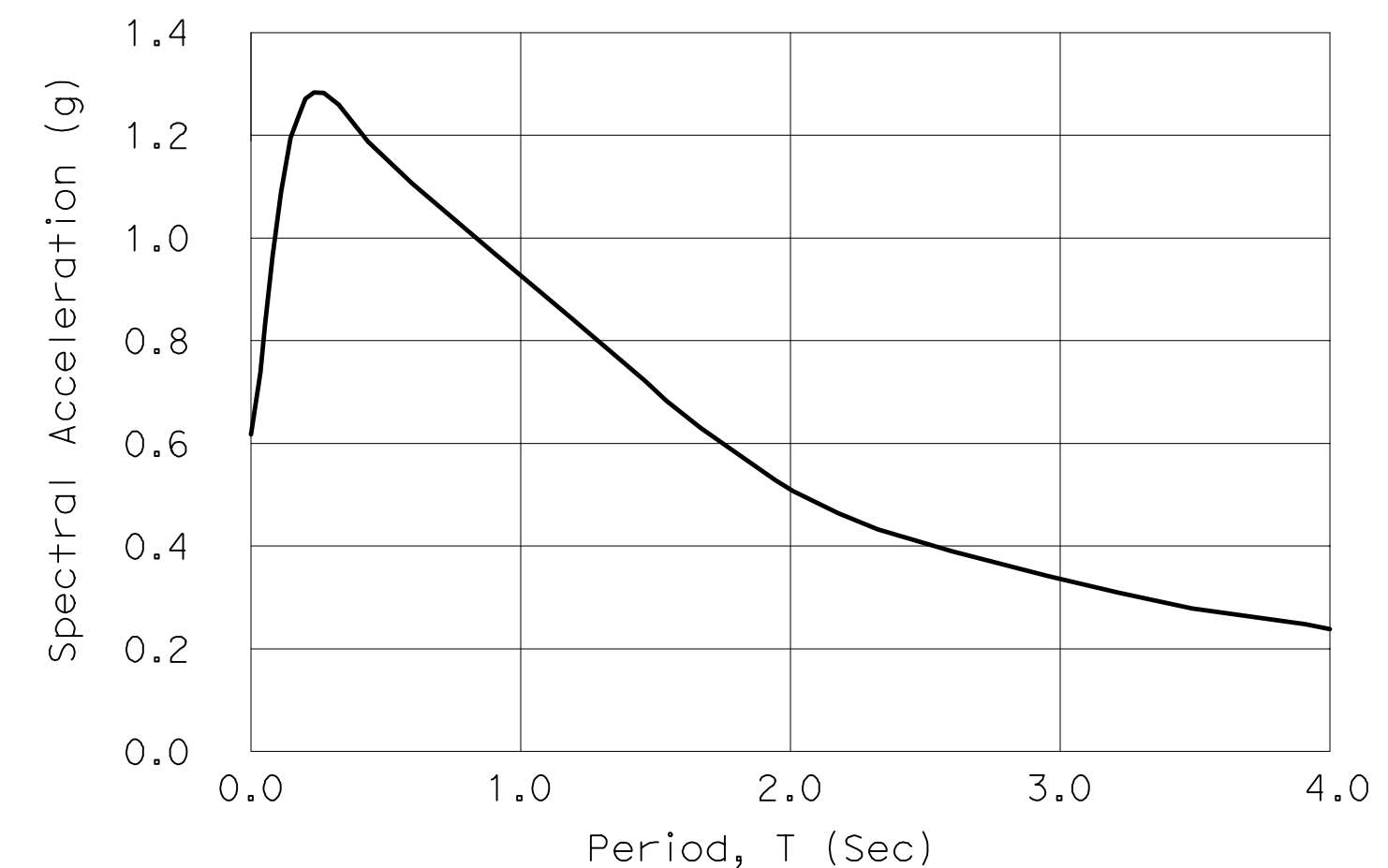
SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC) Version 1.7, dated April 2013
 DEAD LOAD: Includes 35 psf for future wearing surface.
 LIVE LOAD: HL93 and permit design load
 SEISMIC LOAD: Soil profile: Soil Type D; $v_{s30} = 1080$ fps
 Moment magnitude: $M_{max} = 7.9$
 Peak ground acceleration: 0.61g



- STRUCTURAL CONCRETE, BRIDGE ($f'c = 4000$ PSI AT 28 DAYS)
- STRUCTURAL CONCRETE, BRIDGE ($f'c = 3600$ PSI AT 28 DAYS)
- PRECAST PRESTRESSED CONCRETE DECK UNIT, SEE 'PRESTRESSING NOTES' ON 'PC/PS CONCRETE DECK UNIT DETAILS No. 2' SHEET
- STRUCTURAL CONCRETE, BRIDGE FOOTING ($f'c = 3600$ psi AT 28 DAYS)
- STRUCTURAL CONCRETE, APPROACH SLAB (TYPE EQ) ($f'c = 3600$ psi AT 28 DAYS)
- CAST-IN-DRILLED-HOLE CONCRETE PILING ($f'c = 4000$ psi AT 28 DAYS)

CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE



ARS DESIGN CURVE

NO SCALE

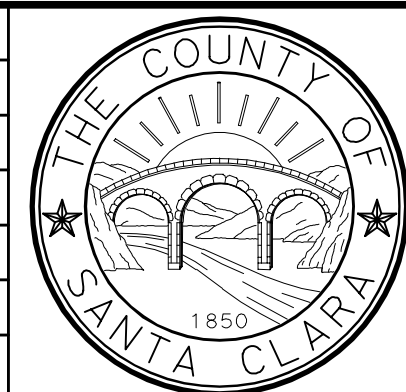
CONCRETE: $f_y = 60$ ksi
 $f'c = 3.6$ ksi (except as shown on 'CONCRETE STRENGTH & TYPE LIMITS' diagram)
 $n = 8$

PLAN CHECK SET/NOT FOR CONSTRUCTION (9/1/20)

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS

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

NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL



COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

DESIGNED: **NAV** 9/1/2020
 DATE
 CHECKED: **JCL** 9/1/2020
 DATE
 DRAWN: **CV** 9/1/2020
 DATE

WORK ORDER
 LEVEL BOOK
 TRANSIT BOOK

SUBMITTED: **MAHVASH M. HARMS**
Structural Engineer

APPROVAL:

**LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C0602**

DRAWING NO.
S-2

DECK CONTOURS

SHT NO.
21 OF 38

NO.	REVISIONS	BY	DATE	APP'D
B	95% DESIGN SUBMITTAL	NAV	9/1/20	CV
A	65% PRELIMINARY DESIGN SUBMITTAL	SOO	2/25/13	CV

PROJECT NO. **BRLO-5937(106)** CONTRACT NO. DATE **9/1/20**

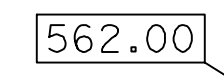


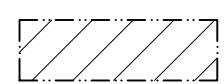



2008149 (2008149S2)

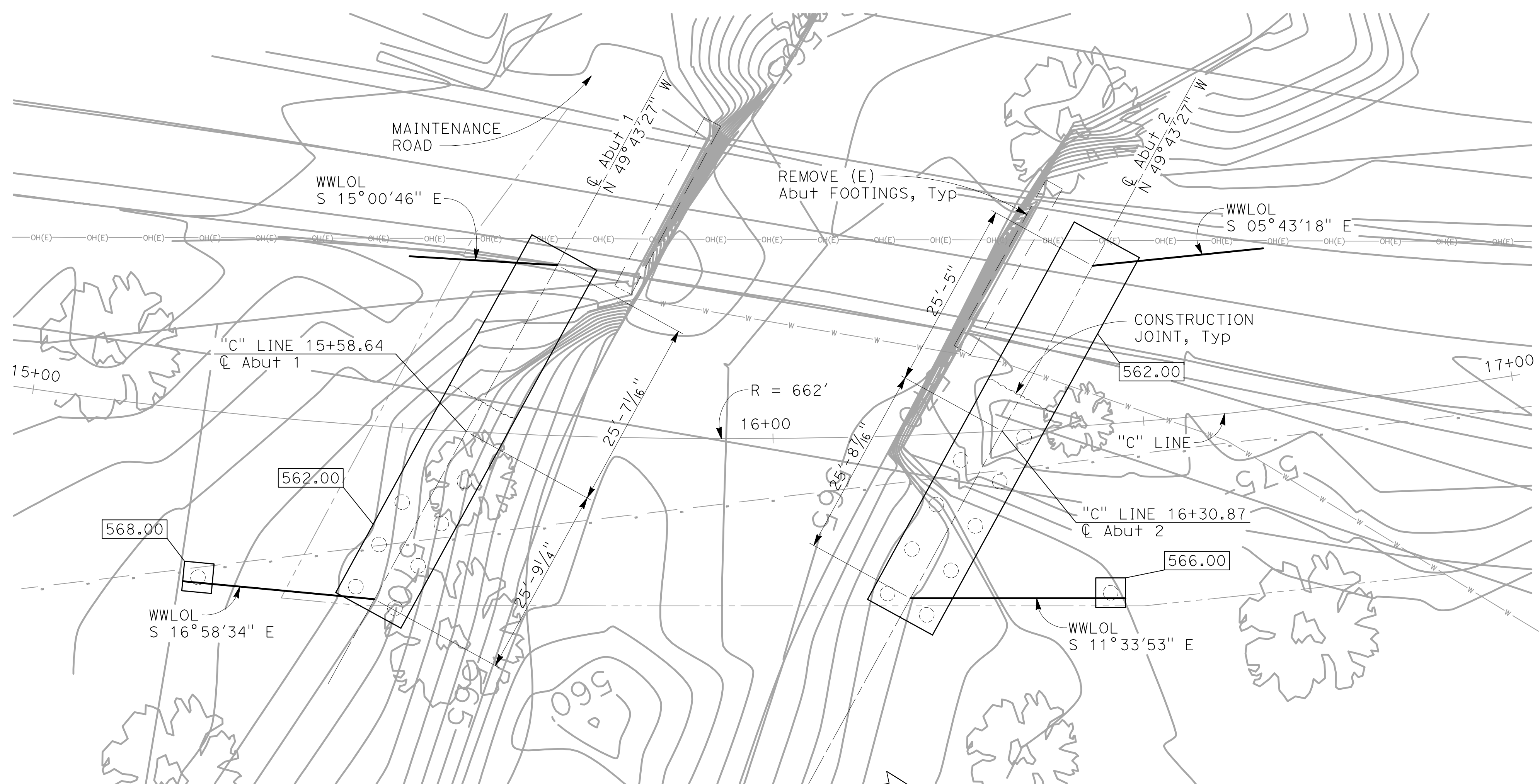
2018 STANDARD PLANS

- A10A ABBREVIATIONS (SHEET 1 OF 2)
- A10B ABBREVIATIONS (SHEET 2 OF 2)
- A10C LINES AND SYMBOLS (SHEET 1 OF 3)
- A10D LINES AND SYMBOLS (SHEET 2 OF 3)
- A10E LINES AND SYMBOLS (SHEET 3 OF 3)
- A10F LEGEND - SOIL (SHEET 1 OF 2)
- A10G LEGEND - SOIL (SHEET 2 OF 2)
- A10H LEGEND - ROCK
- A62B LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE AND WALL
- A62C LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE METAL BEAM GUARD RAILING - CONNECTIONS TO BRIDGE RAILINGS WITHOUT SIDEWALKS DETAILS No. 1
- A77J1 METAL BEAM GUARD RAILING - CONNECTIONS TO BRIDGE RAILINGS WITHOUT SIDEWALKS DETAILS No. 2
- A77J2 TEMPORARY RAILING (TYPE K)
- T3A BRIDGE DETAILS
- B0-1 BRIDGE DETAILS
- B0-3 BRIDGE DETAILS
- B0-5 BRIDGE DETAILS
- B0-13 BRIDGE DETAILS
- B2-3 16" AND 24" CAST-IN-DRILLED-HOLE CONCRETE PILE JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
- B6-21 TUBULAR HANDRAILING
- B11-51 CONCRETE BARRIER TYPE 732

-  Indicates Standard Plan Sheet No.
-  Indicates Detail No.

LEGEND:

-  Indicates bottom of footing elevation (NAVD88)
-  Indicates spot elevation
-  Indicates 24" CIDH Pile, not all piles shown. See "ABUTMENT PLAN & ELEVATION" sheets
-  Indicates exist bridge foundation to be removed
-  Indicates existing waterline
-  Indicates existing overhead line
-  Indicates proposed waterline



FOUNDATION PLAN

1" = 10'

HYDROLOGIC SUMMARY

(LOCATION HYDRAULIC STUDY BY SCHAAF & WHEELER CONSULTING CIVIL ENGINEERS, DATED JUNE 16, 2014)

Drainage Area: 12.2 square miles	DESIGN FLOOD	BASE FLOOD	OVERTOPPING
Frequency (years)	50	100	N/A
Discharge (cfs)	3,637	4,228	N/A
Water surface Elevation at Bridge (ft)	571.5	571.8	N/A

Flood Plain 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 the County and interested or affected parties should make their own investigations.

PILE DATA TABLE

Location	Pile Type	Nominal Resistance (kips)		Design Tip Elev (ft)	Specified Tip Elev (ft)
		Compression	Tension		
Abut 1	24" Dia CIDH	320	0	525.0 (a) 540.0 (b)	525.0
Abut 2	24" Dia CIDH	300	0	529.0 (a) 540.0 (b)	529.0
Abut 1 Wingwall	24" Dia CIDH	110	0	543.0 (a) 548.0 (b)	543.0
Abut 2 Wingwall	24" Dia CIDH	110	0	543.0 (a) 546.0 (b)	543.0

- Notes:
- Design tip elevations for Abutments are controlled by (a) Compression, (b) Lateral Load.
 - The specified tip elevation shall not be raised above the design tip elevation for Tension Load and Lateral Load.

SCOUR DATA TABLE

SUPPORT No.	LONG TERM (DEGRADATION AND CONTRACTION SCOUR ELEVATION (ft))	SHORT TERM (LOCAL) SCOUR DEPTH (ft)
Abut 1	13.1	11.6
Abut 2	8.1	6.6

NOTE:
1. Utilities shown are for illustrative purposes only, verify with Road Plans

BENCH MARK AND DATUM


MONUMENT	COORDINATES		ELEV	DESCRIPTION/LOCATION
	NORTHING	EASTING		
17	1874716.317	6201237.154	577.99	1" Iron Pipe
41	1875275.487	6201353.714	579.03	1" Iron Pipe

Vertical Datum: NAVD88
Horizontal Datum: CCS83

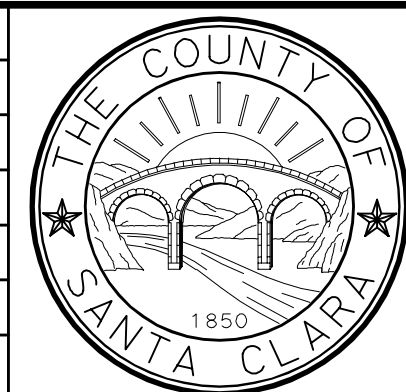
PLAN CHECK SET/NOT FOR CONSTRUCTION (9/1/20)

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS

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



NOTE:
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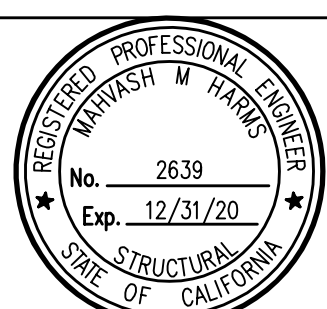


COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

NAV DESIGNED	9/1/2020	DATE	WORK ORDER
JCL DRAWN	9/1/2020	DATE	LEVEL BOOK
CV CHECKED	9/1/2020	DATE	TRANSIT BOOK

SUBMITTED: MAHVASH M. HARMS
Structural Engineer

APPROVAL:



LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C0602

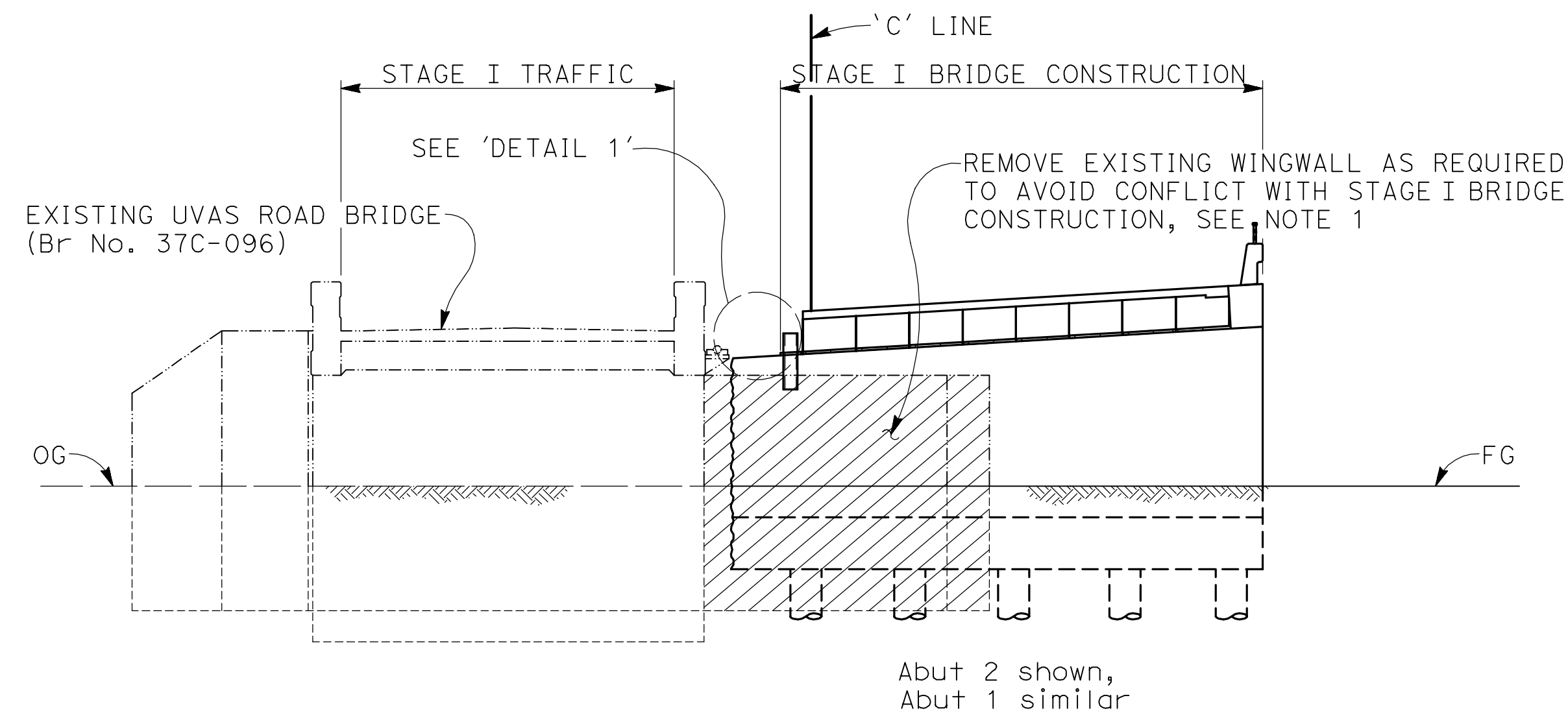
FOUNDATION PLAN

PROJECT NO. **BRLO-5937(106)** CONTRACT NO. DATE **9/1/20**

DRAWING NO. **S-3**
SHT NO. **22 OF 38**

NO.	REVISIONS	BY	DATE	APP'D
B	95% DESIGN SUBMITTAL	NAV	9/1/20	CV
A	65% PRELIMINARY DESIGN SUBMITTAL	SOO	2/25/13	CV

200814933

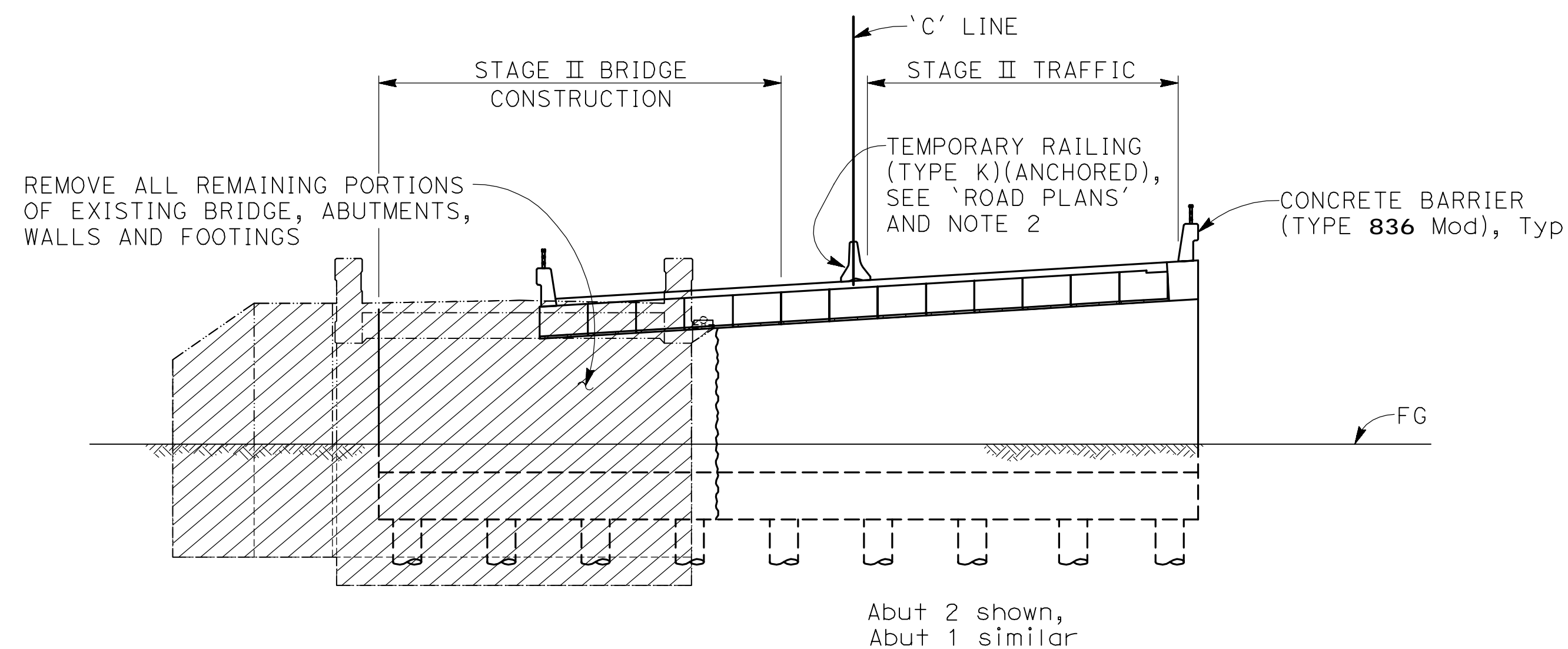


STAGE I BRIDGE CONSTRUCTION - CIVIL STAGE 2-1 CONSTRUCTION

NO SCALE

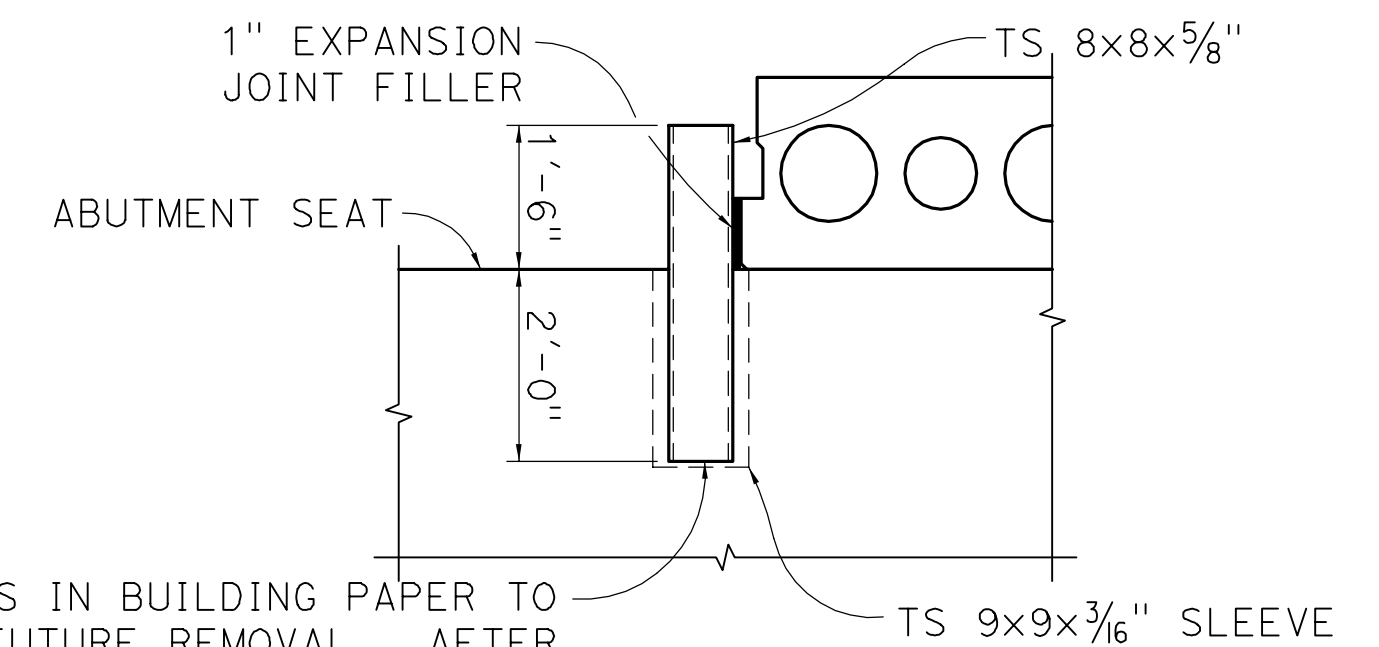
- NOTES:
1. Contractor shall remove portion of existing abutment and/or existing wingwalls as required for stage construction. Upon removal of any existing structure, temporary shoring shall be utilized as required to maintain stability & serviceability of existing facilities
 2. For temporary railing details, see 'DETAIL 2' on 'TYPICAL SECTION' sheet

LEGEND:
 Indicates bridge removal



STAGE II BRIDGE CONSTRUCTION - CIVIL STAGE 2-4 CONSTRUCTION

NO SCALE



WRAP TS IN BUILDING PAPER TO FACILITATE FUTURE REMOVAL. AFTER PLACING TS IN HOLE, FILL HOLE WITH NON-SHRINK GROUT (STAGE I). FILL SLEEVE W/ NON-SHRINK GROUT AFTER TS REMOVAL (STAGE II).

TEMPORARY STEEL SHEAR KEY - DETAIL 1

1/2"=1'-0"

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS

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

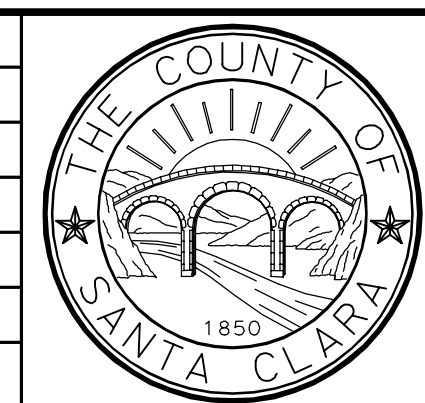


NOTE:
THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL

PLAN CHECK SET/NOT FOR CONSTRUCTION

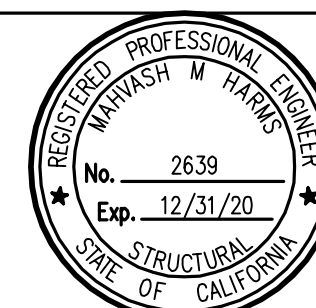
9/9/20

NO.	REVISIONS	BY	DATE	APP'D
B	95% DESIGN SUBMITTAL	NAV	9/1/20	CV
A	65% PRELIMINARY DESIGN SUBMITTAL	SOO	2/25/13	CV



COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT			
DESIGNED	DATE	WORK ORDER	
NAV	9/1/2020		
DRAWN	DATE	LEVEL BOOK	
JCL	9/1/2020		
CHECKED	DATE	TRANSIT BOOK	
CV	9/1/2020		

SUBMITTED:
MAHVASH M. HARMS
Structural Engineer

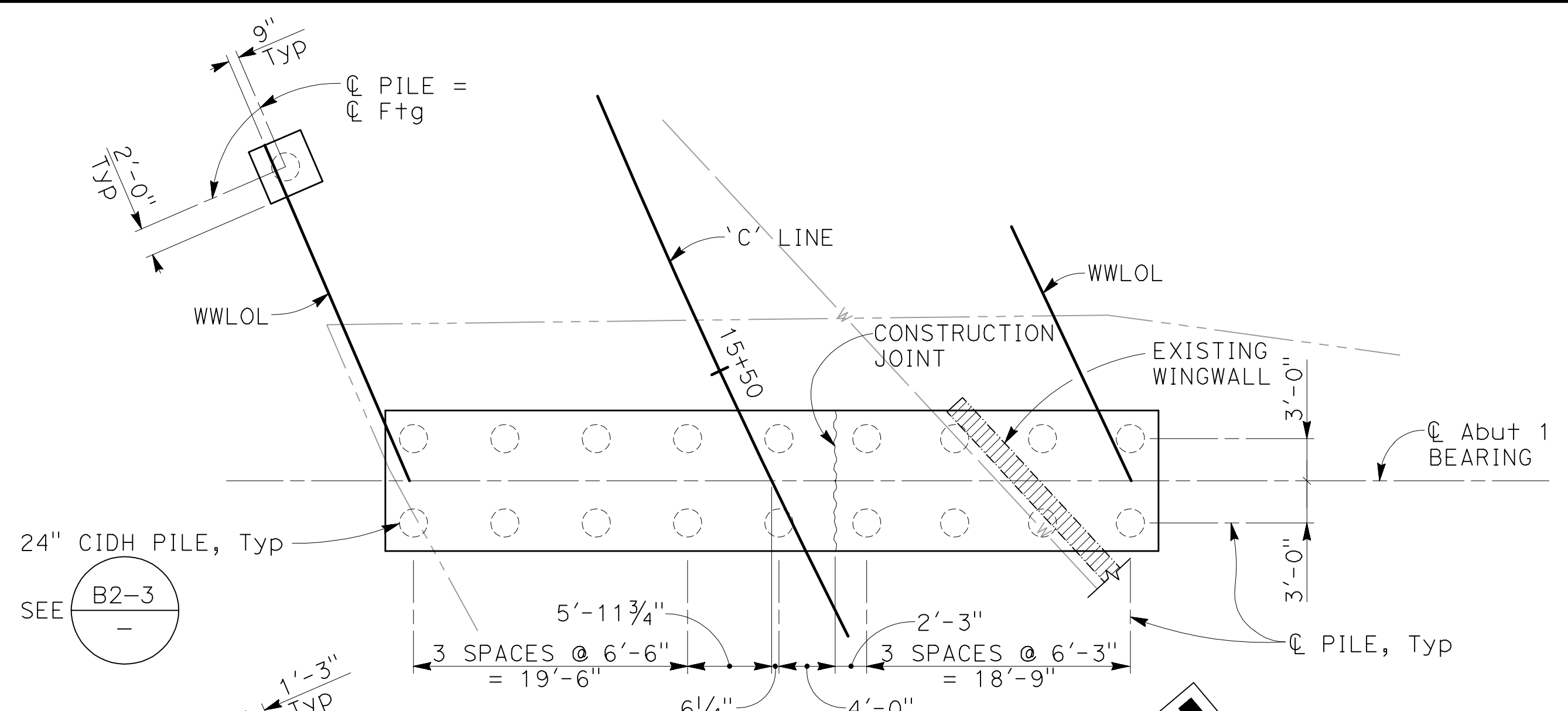


APPROVAL:

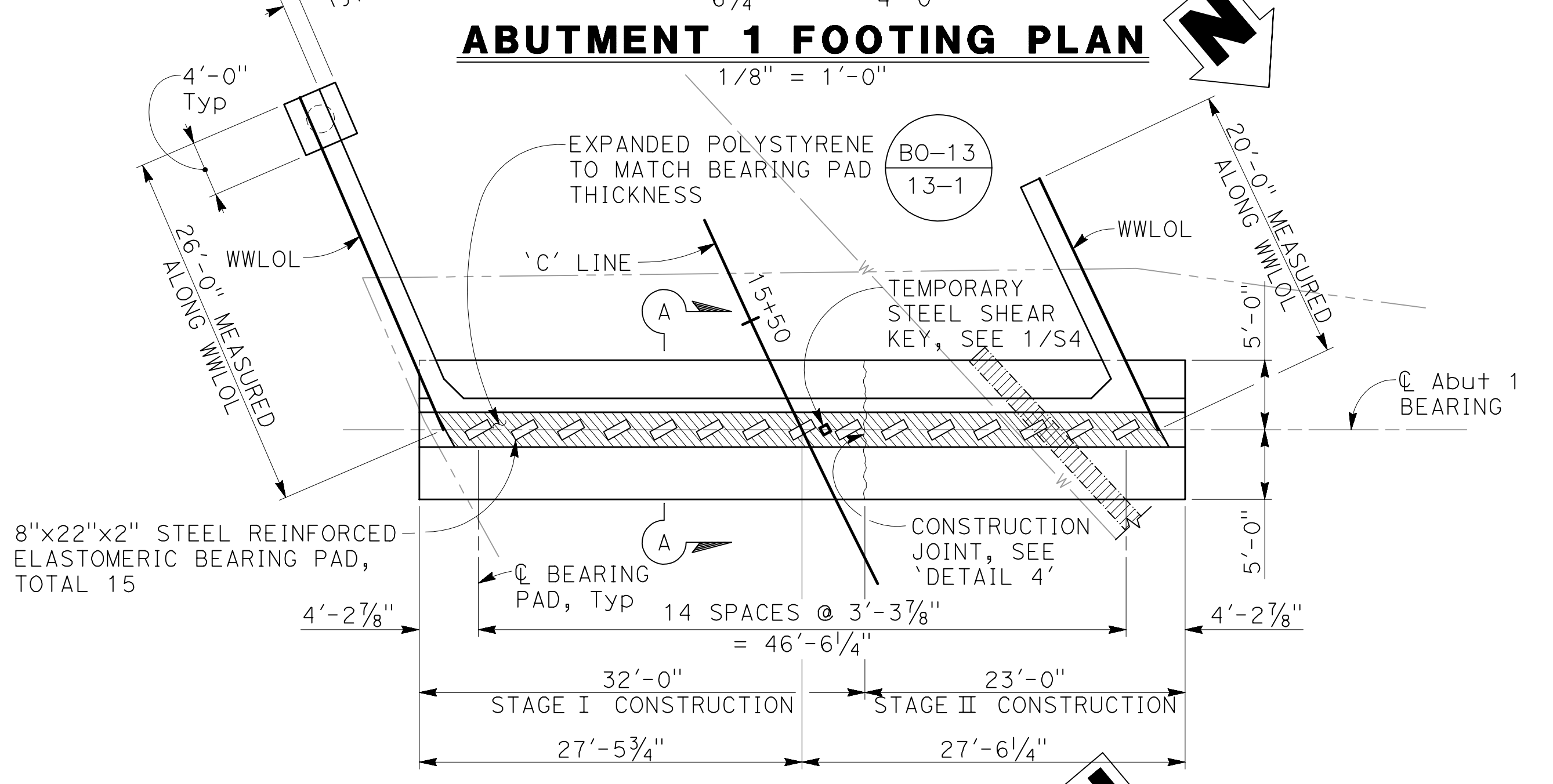
LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT) BRIDGE No. 37C0602		
STAGE CONSTRUCTION DETAILS		
PROJECT NO.	CONTRACT NO.	DATE
BRL0-6937(106)		9/1/20

DRAWING NO.
S-4
SHT NO.
23 OF 38

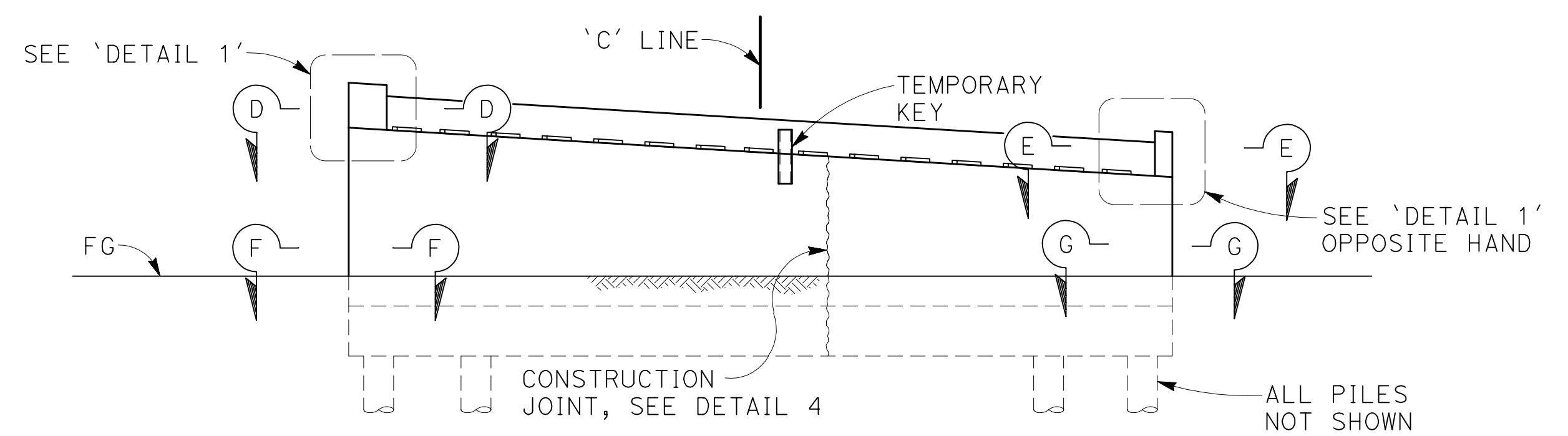
200814954



ABUTMENT 1 FOOTING PLAN
1/8" = 1'-0"



ABUTMENT 1 PLAN
1/8" = 1'-0"



ABUTMENT 1 ELEVATION
1/8" = 1'-0"

- NOTES:
1. For 'SECTION A-A' and 'DETAIL 1', see 'ABUTMENT DETAILS No. 1' sheet
 2. For 'SECTION D-D', 'SECTION E-E', 'SECTION F-F' and 'SECTION G-G', see 'ABUTMENT DETAILS No. 4' sheet
 3. For 'DETAIL 4', see 'ABUTMENT DETAILS No. 5' sheet
 4. Barriers not shown
 5. Structure approach not shown

- LEGEND:
- Indicates 24" CIDH Pile
 - ▨ Indicates expanded polystyrene
 - ▩ Indicates Bridge Removal
 - w- Indicates existing waterline
 - - - - Indicates proposed waterline

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NOTE:
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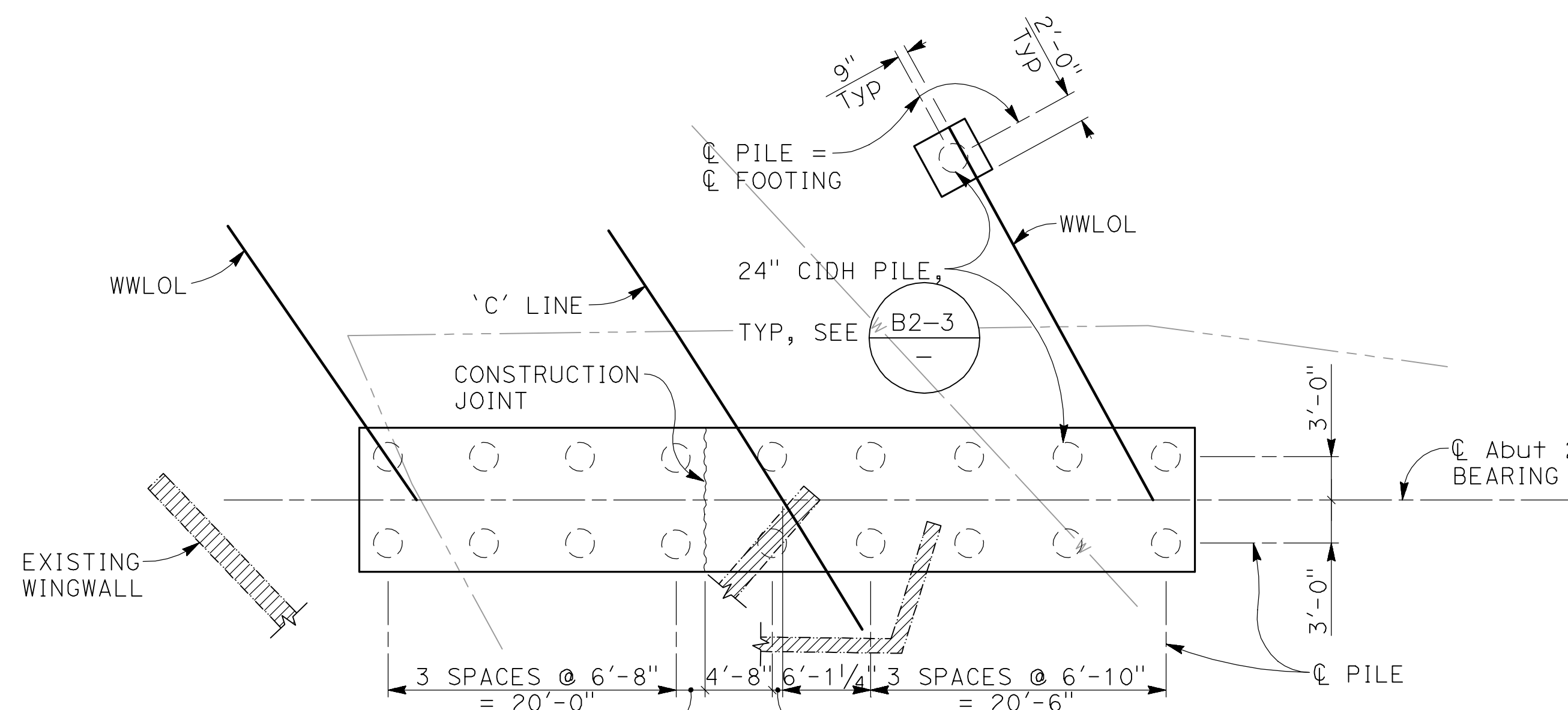
COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT			
DESIGNED NAV DATE 9/1/2020	DATE 9/1/2020	WORK ORDER	SUBMITTED BY MAHVASH M. HARMS Structural Engineer
DRAWN JCL DATE 9/1/2020	DATE 9/1/2020	LEVEL BOOK	APPROVAL:
CHECKED CV	DATE	TRANSIT BOOK	

LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT) BRIDGE No. 37C0602			DRAWING NO. S-5
ABUTMENT 1 PLAN & ELEVATION			SHT NO. 24 OF 38
PROJECT NO. BRLO-5937(106)	CONTRACT NO.	DATE 9/1/20	

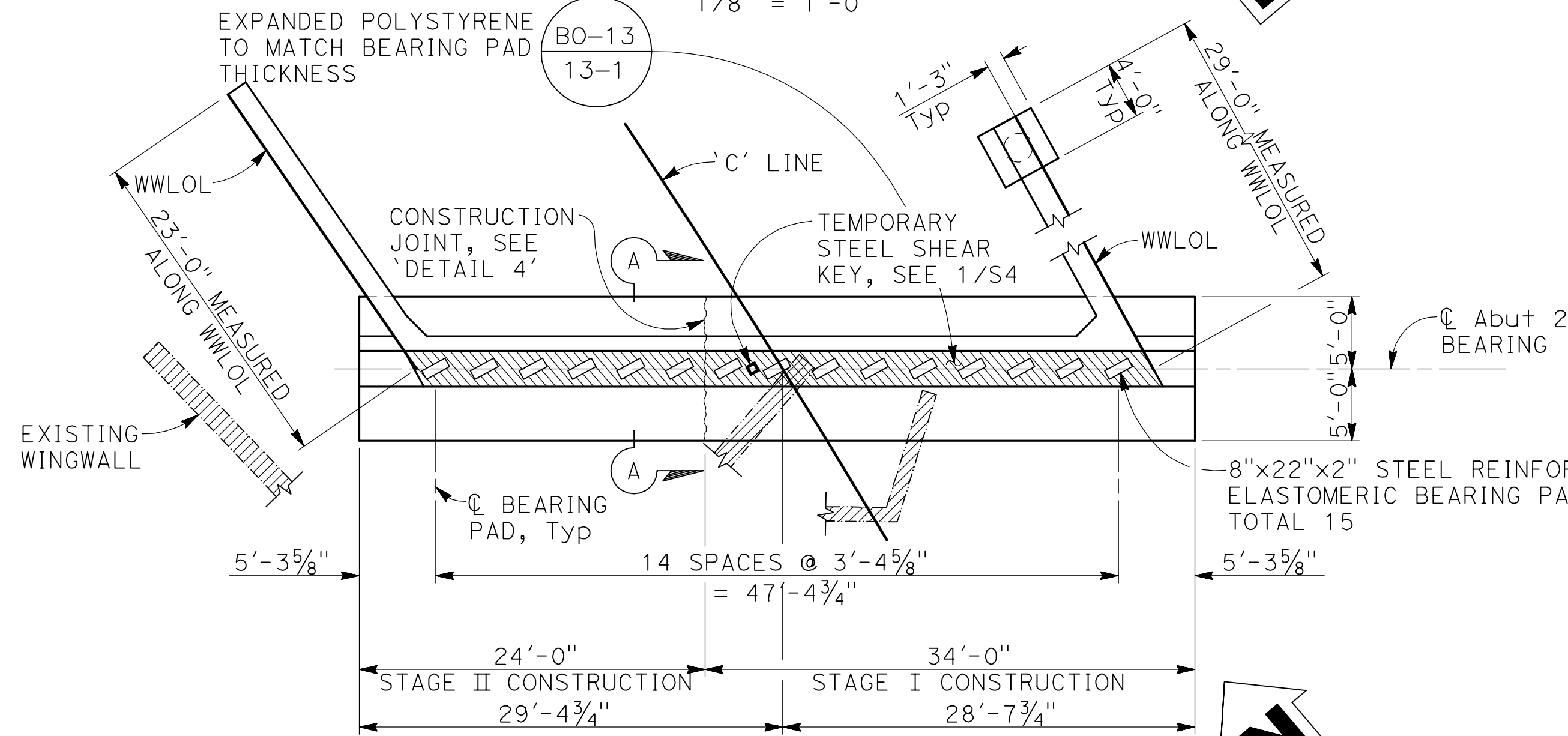
PLAN CHECK SET/NOT FOR CONSTRUCTION (9/1/20)

NO.	REVISIONS	BY	DATE	APP'D
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A	65% PRELIMINARY DESIGN SUBMITTAL	SOO	2/25/13	CV

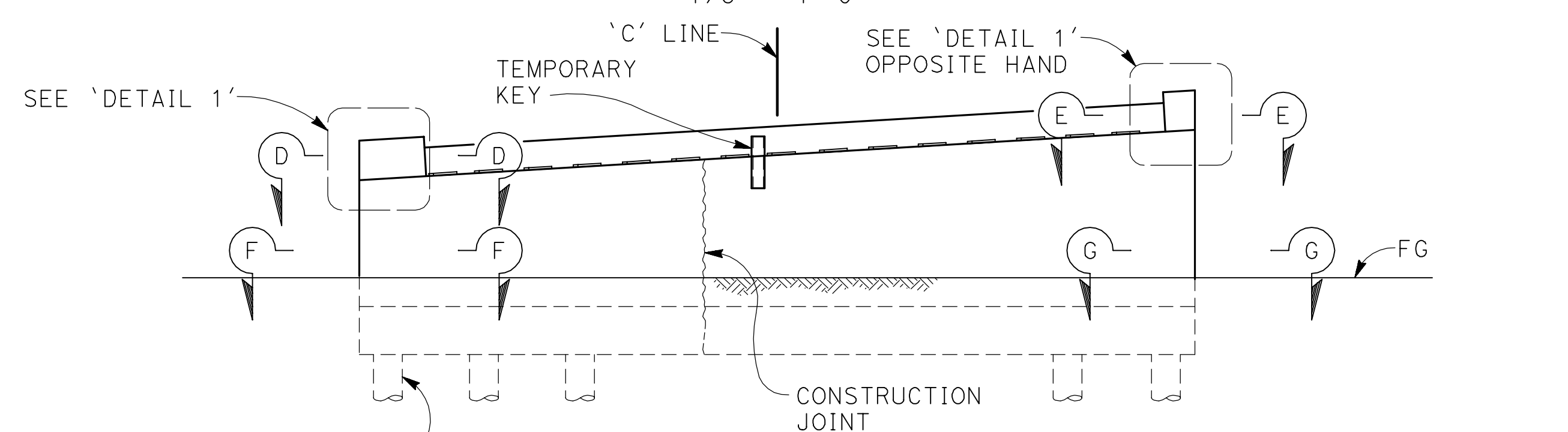
2008149 (2008149S)



ABUTMENT 2 FOOTING PLAN
1/8" = 1'-0"



ABUTMENT 2 PLAN
1/8" = 1'-0"



ABUTMENT 2 ELEVATION
1/8" = 1'-0"

- NOTES:
- For 'SECTION A-A' and 'DETAIL 1', see 'ABUTMENT DETAILS No. 1' sheet
 - For 'SECTION D-D', 'SECTION E-E', 'SECTION F-F' and 'SECTION G-G', see 'ABUTMENT DETAILS No. 4' sheet
 - For 'DETAIL 4', see 'ABUTMENT DETAILS No. 5' sheet
 - Barriers not shown
 - Structure approach not shown

- LEGEND:
- Indicates 24" CIDH Pile
 - Indicates expanded polystyrene
 - Indicates Bridge Removal
 - Indicates existing waterline
 - Indicates proposed waterline

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San Jose, California 95126
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NOTE:
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COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

DESIGNED	NAV	9/1/2020
DRAWN	JCL	9/1/2020
CHECKED	CV	9/1/2020

SUBMITTED BY:
MAHVASH M. HARMS
Structural Engineer

APPROVAL:	
DATE:	

LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C0602

ABUTMENT 2 PLAN & ELEVATION

PROJECT NO.	BRL0-6937(106)
CONTRACT NO.	
DATE	9/1/20

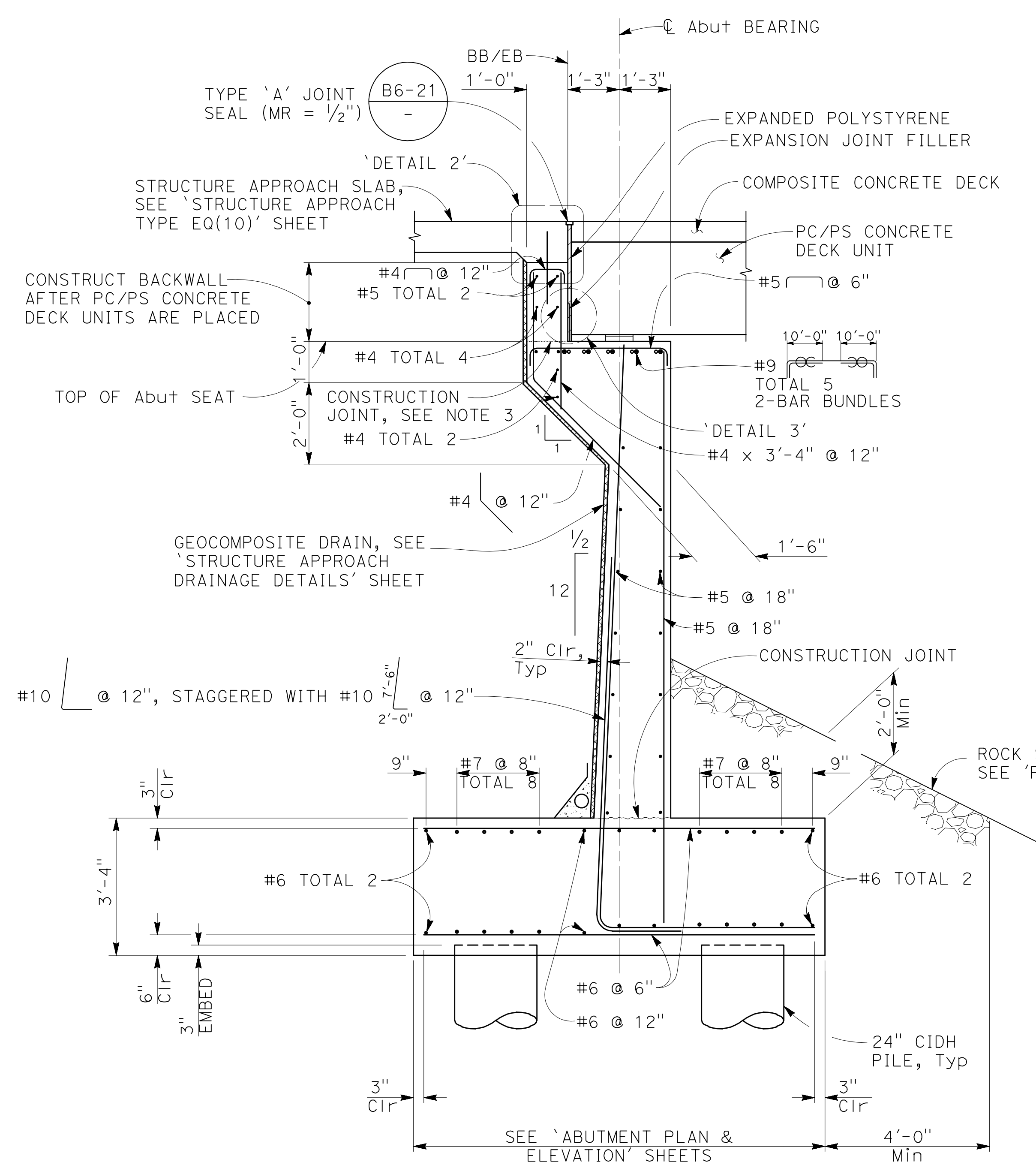
NO.	REVISIONS	BY	DATE	APP'D
B	95% DESIGN SUBMITTAL	NAV	9/1/20	CV
A	65% PRELIMINARY DESIGN SUBMITTAL	SOO	2/25/13	CV



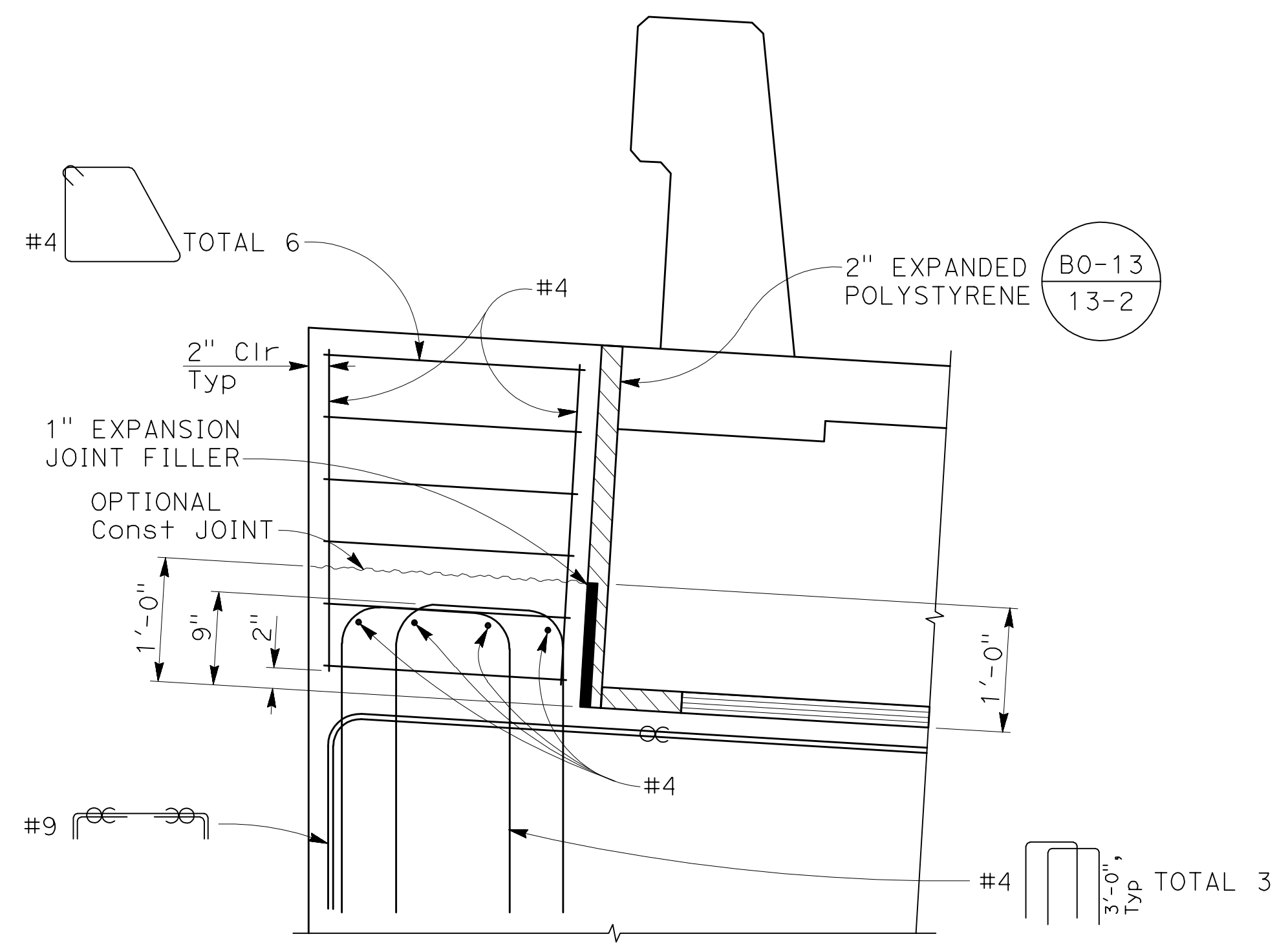
DRAWING NO.	S-6
SHT NO.	25 OF 38

PLAN CHECK SET/NOT FOR CONSTRUCTION (9/9/20)

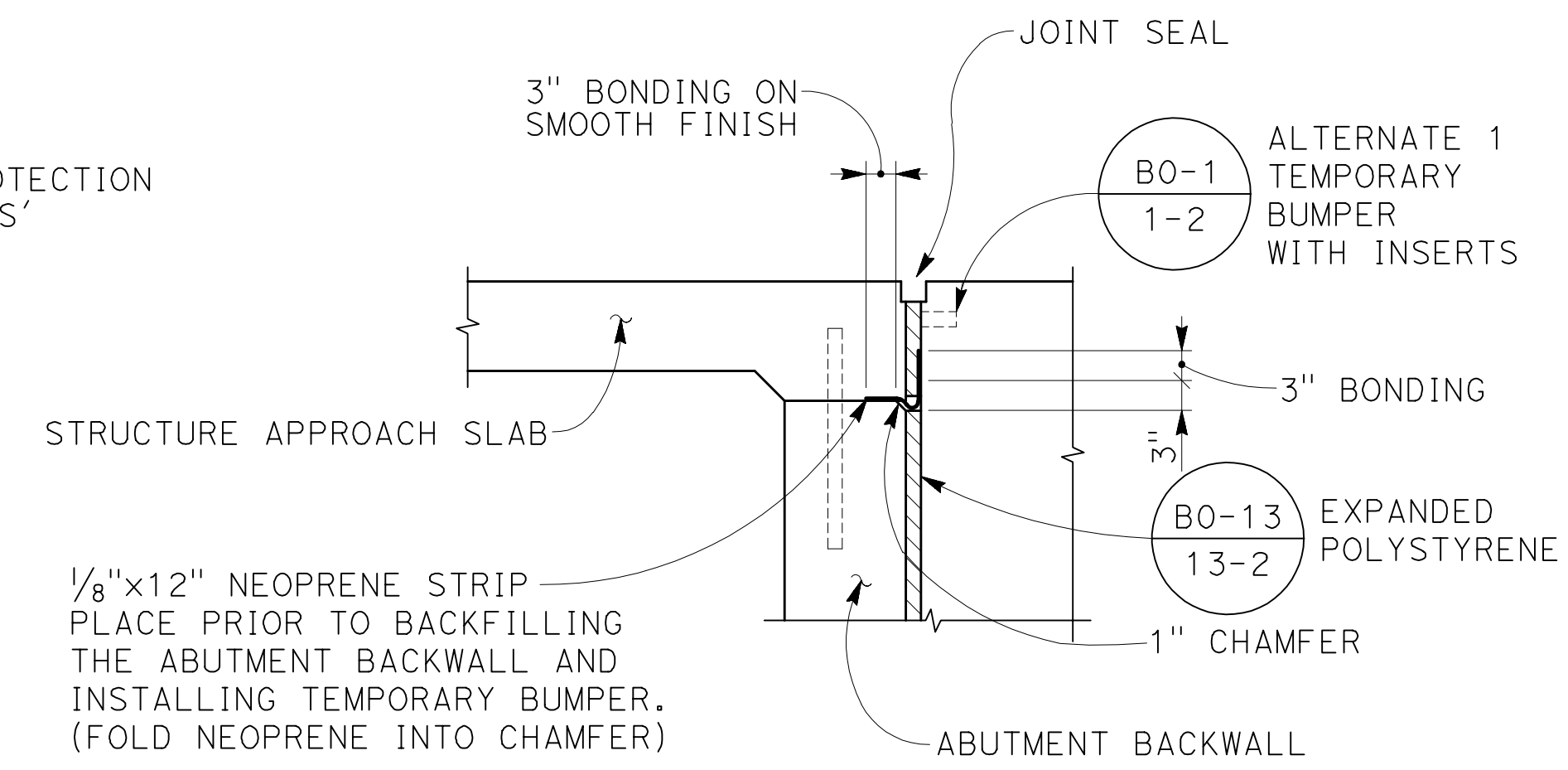
200814956



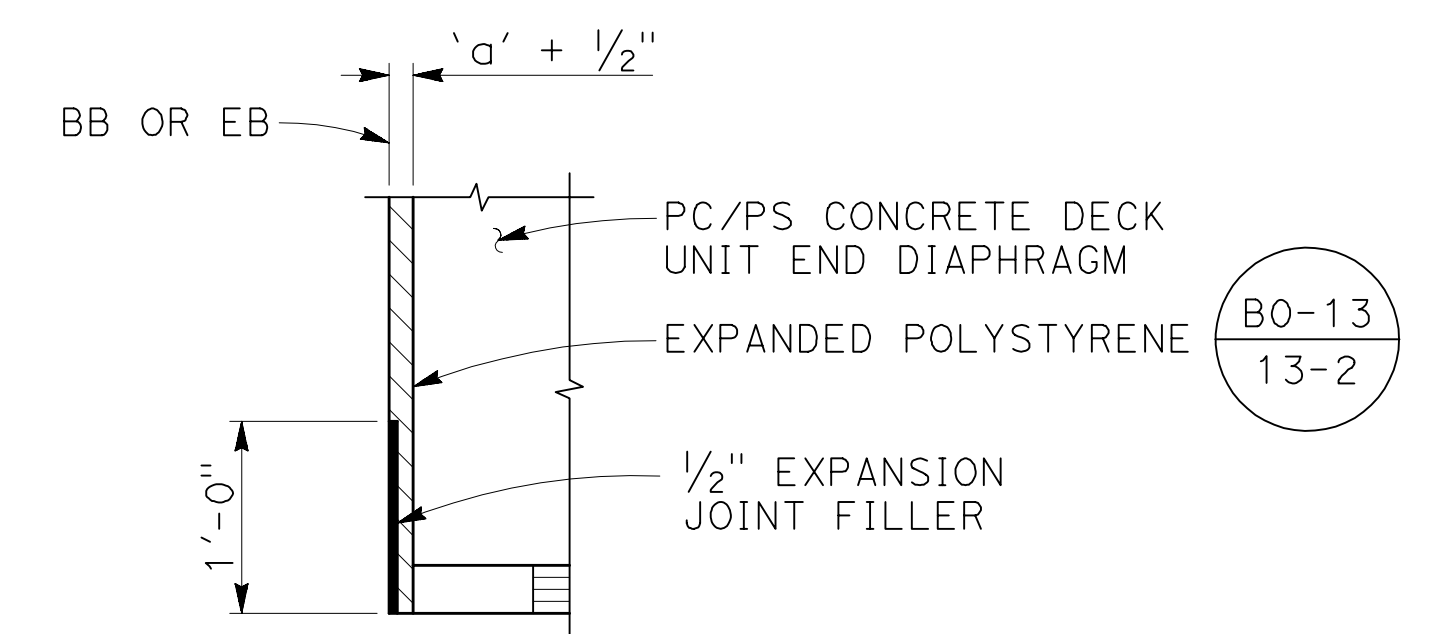
SECTION A-A
1/2" = 1'-0"



NOTE:
NOT ALL REINFORCEMENT
SHOWN FOR CLARITY
DETAIL 1
1" = 1'-0"



JOINT PROTECTION - DETAIL 2
3/4" = 1'-0"



DETAIL 3
NO SCALE

- NOTES:
- For 'ABUTMENT 1 PLAN' and 'ABUTMENT 1 ELEVATION', see 'ABUTMENT 1 PLAN & ELEVATION' sheet.
 - For 'ABUTMENT 2 PLAN' and 'ABUTMENT 2 ELEVATION', see 'ABUTMENT 2 PLAN & ELEVATION' sheet.
 - Do not intentionally roughen construction joint at backwall.

LEGEND:
 Indicates expanded polystyrene

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NO.	REVISIONS	BY	DATE	APP'D
B	95% DESIGN SUBMITTAL	NAV	9/1/20	CV
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COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

DESIGNED JCL	DATE 9/1/2020	WORK ORDER
DRAWN CV	DATE 9/1/2020	LEVEL BOOK
CHECKED	DATE	TRANSIT BOOK

SUBMITTED BY:
MAHVASH M. HARMS
Structural Engineer

APPROVAL:

PLAN CHECK SET/NOT FOR CONSTRUCTION (9/1/20)

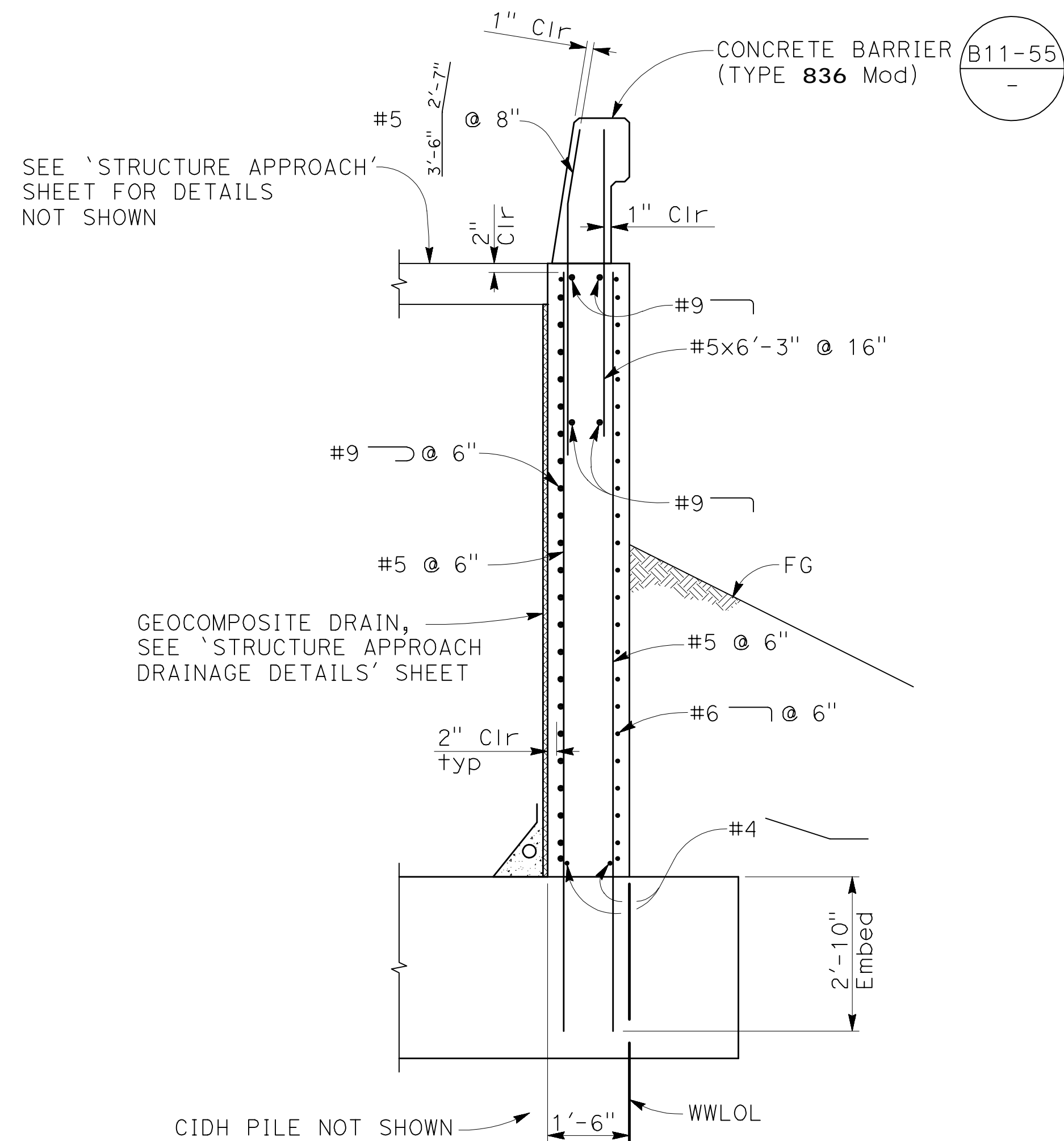
LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C0602

ABUTMENT DETAILS No. 1

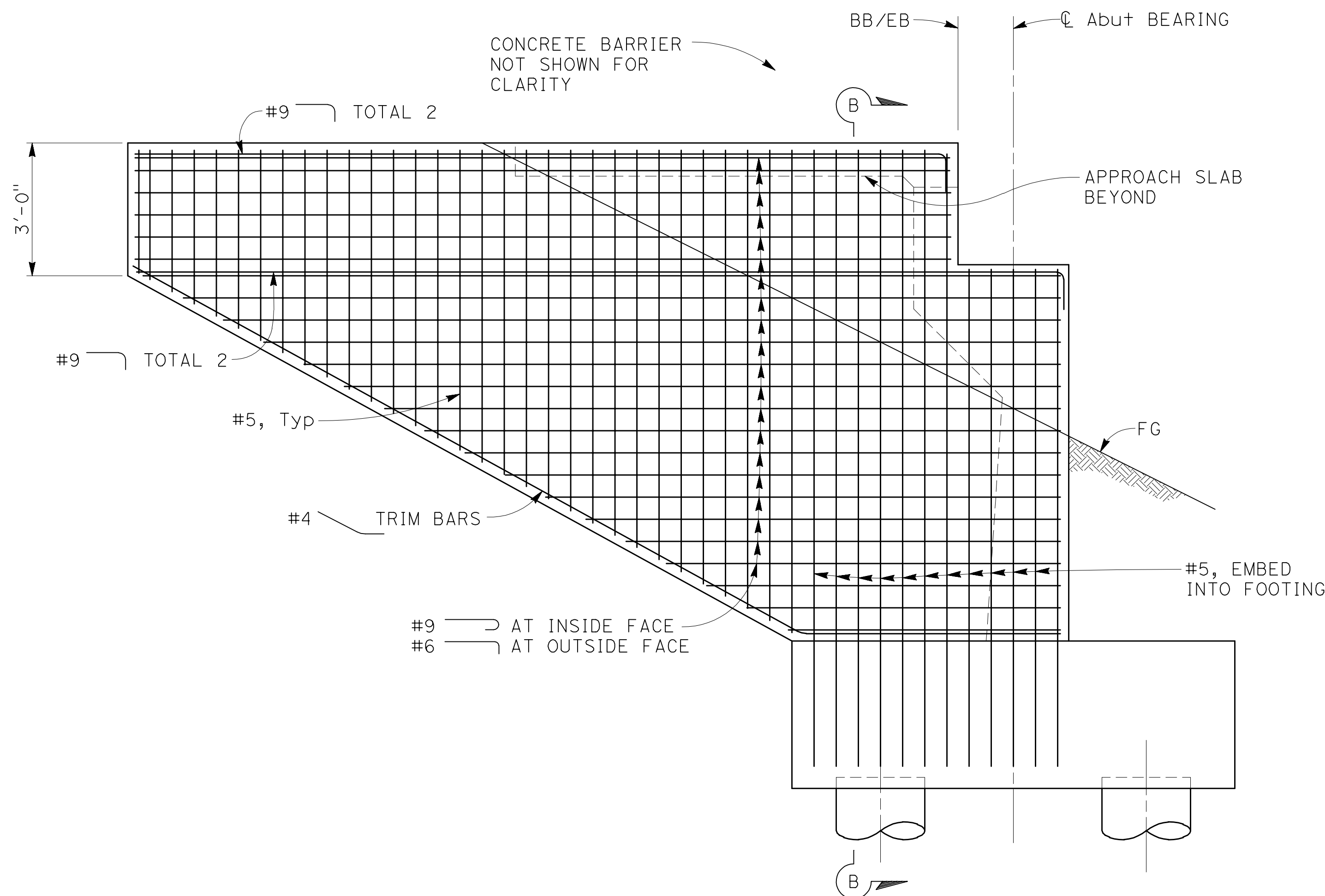
PROJECT NO. **BRL0-5937(106)** CONTRACT NO. DATE **9/1/20**

DRAWING NO. **S-7**
SHT NO. **26 OF 38**

20081497



SECTION B-B
1/2" = 1'-0"



TYPICAL CANTILEVER WINGWALL ELEVATION
1/2" = 1'-0"

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STRUCTURAL ENGINEERS

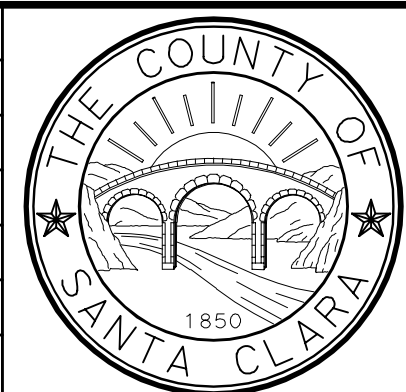
865 The Alameda
San Jose, California 95126
408-296-5515



NOTE:
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PLAN CHECK SET/NOT FOR CONSTRUCTION (9/1/20)

NO.	REVISIONS	BY	DATE	APP'D
B	95% DESIGN SUBMITTAL	NAV	9/1/20	CV
A	65% PRELIMINARY DESIGN SUBMITTAL	SOO	2/25/13	CV



COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT			
DESIGNED	DATE	WORK ORDER	
NAV	9/1/2020		
DRAWN	DATE	LEVEL BOOK	
JCL	9/1/2020		
CHECKED	DATE	TRANSIT BOOK	
CV	2/25/2013		

SUBMITTED BY:
MAHVASH M. HARMS
Structural Engineer



APPROVAL:

LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C0602

ABUTMENT DETAILS No. 2

PROJECT NO. **BRL0-5937(106)**

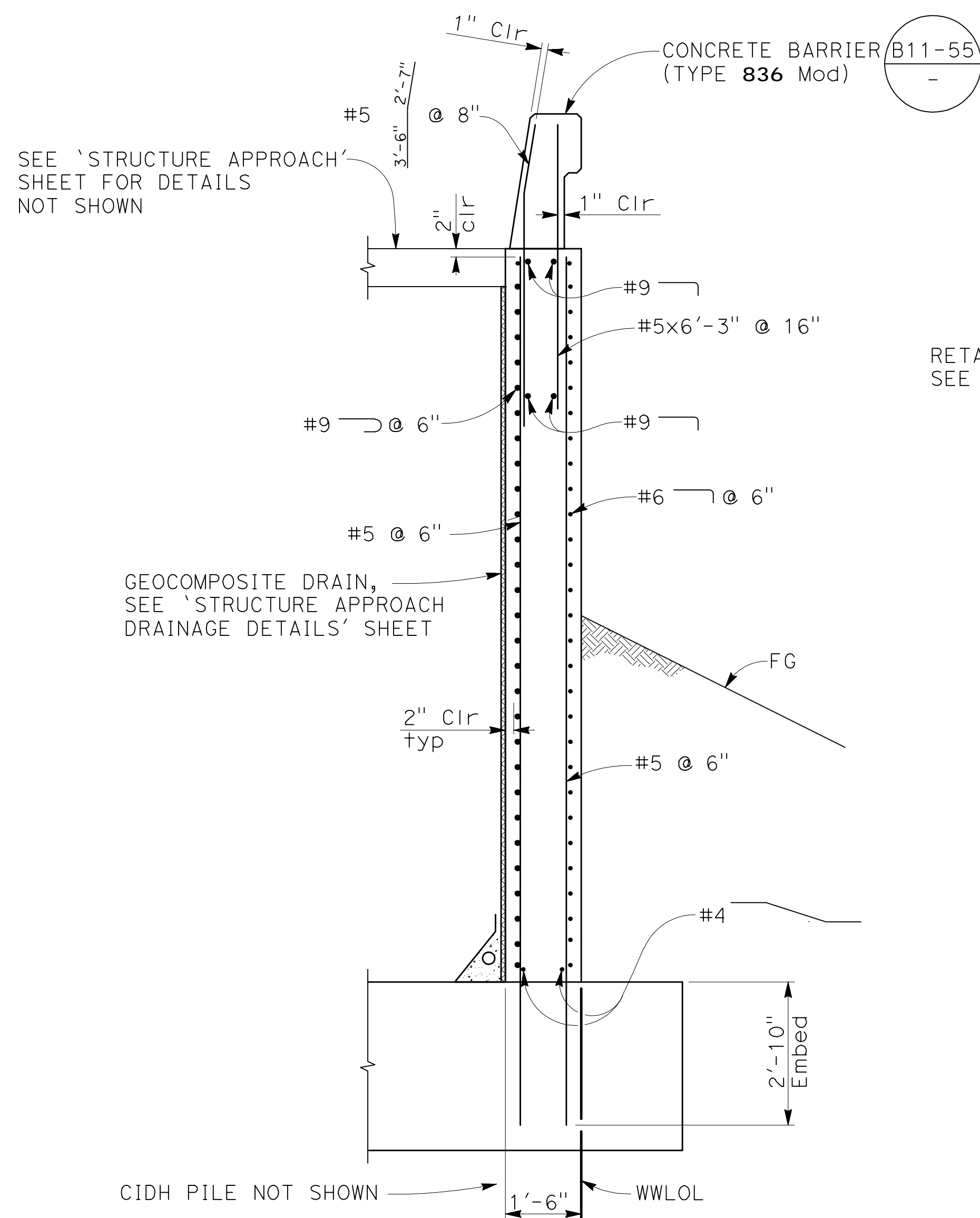
CONTRACT NO.

DATE. **9/1/20**

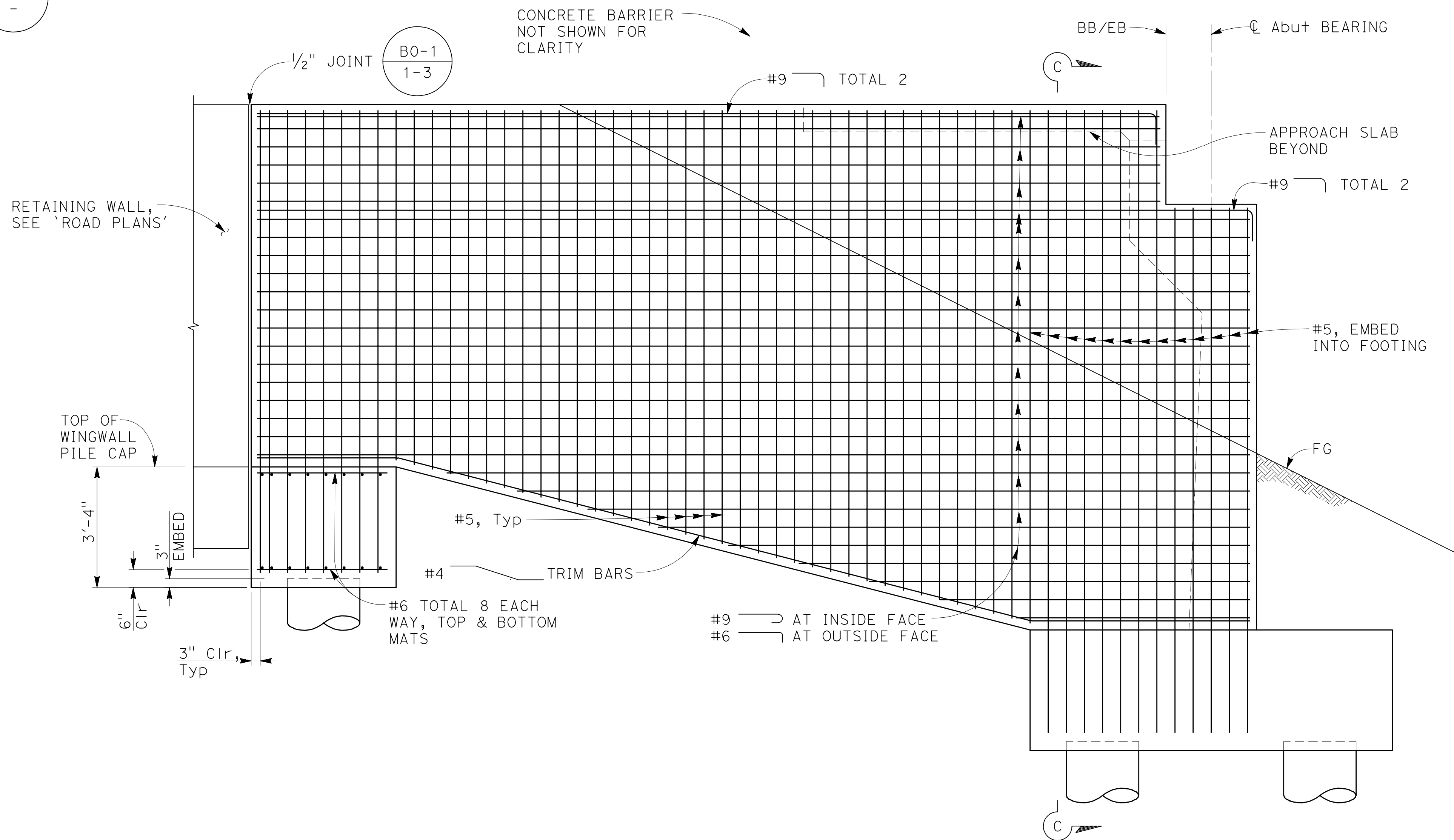
DRAWING NO.
S-8

SHT NO.
27 OF 38

200814958



SECTION C-C
1/2" = 1'-0"



TYPICAL WINGWALL WITH PILE ELEVATION
1/2" = 1'-0"

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CONTROLLING FIELD DIMENSIONS BEFORE
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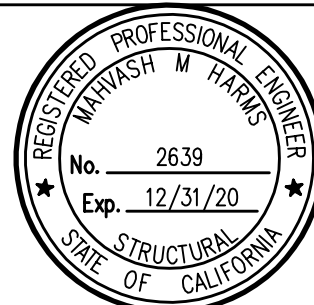
PLAN CHECK SET/NOT FOR CONSTRUCTION (9/1/20)

NO.	REVISIONS	BY	DATE	APP'D
B	95% DESIGN SUBMITTAL	NAV	9/1/20	CV
A	65% PRELIMINARY DESIGN SUBMITTAL	SOO	2/25/13	CV



COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT			
DESIGNED	DATE	WORK ORDER	
NAV	9/1/2020		
DRAWN	DATE	LEVEL BOOK	
JCL	9/1/2020		
CHECKED	DATE	TRANSIT BOOK	
CV	9/1/2020		

SUBMITTED:
MAHVASH M. HARMS
Structural Engineer



APPROVAL:

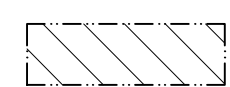
LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C0602

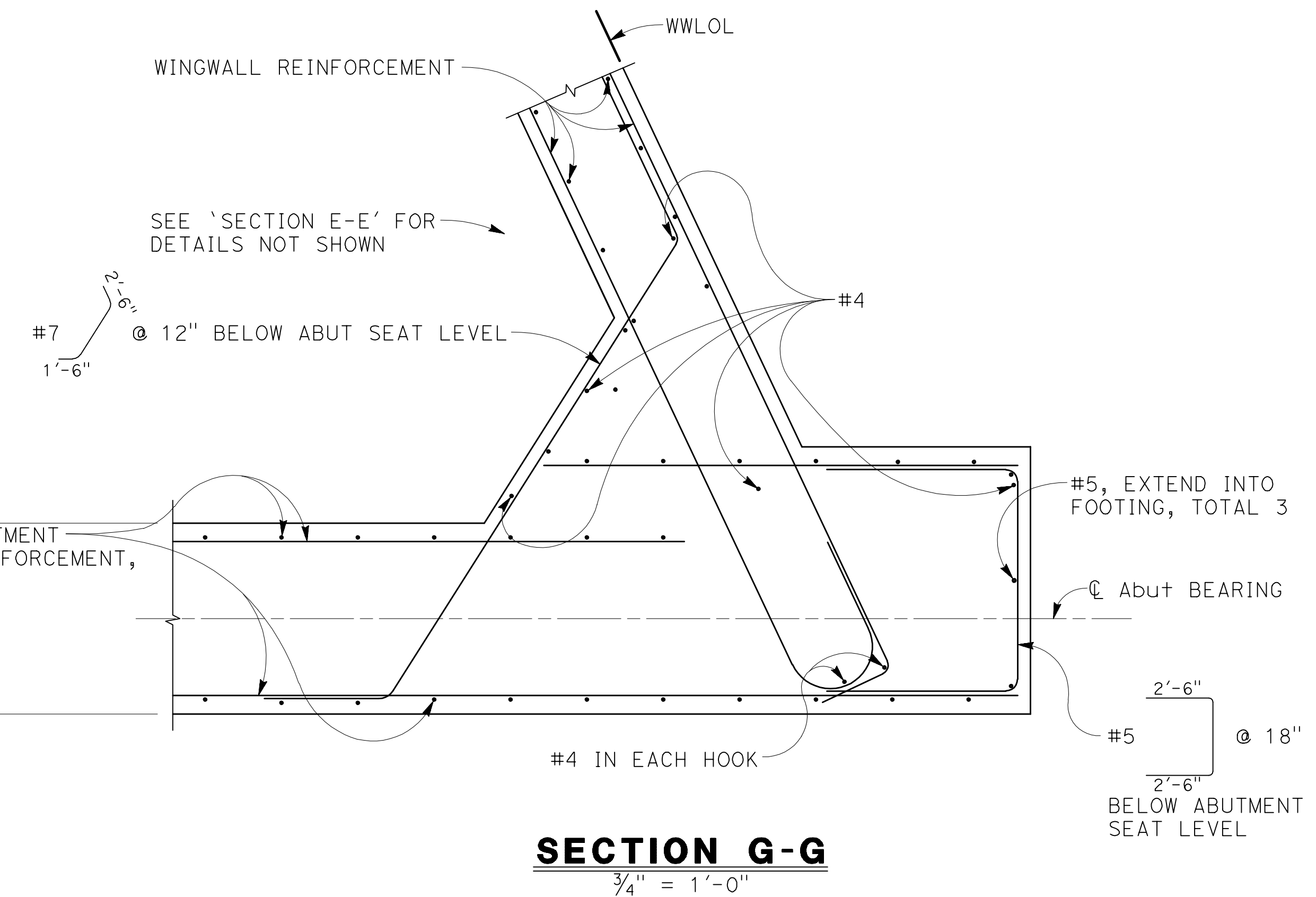
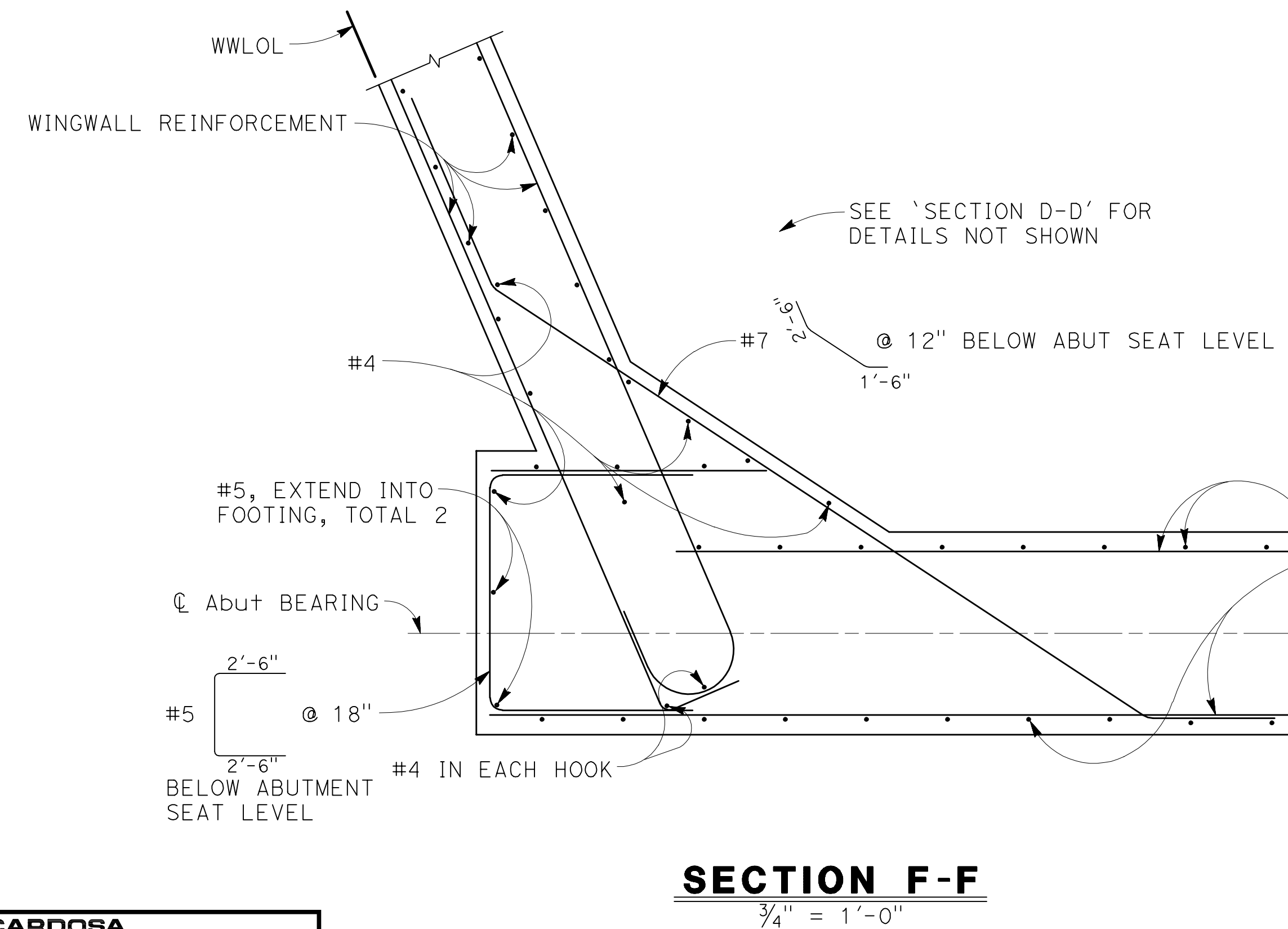
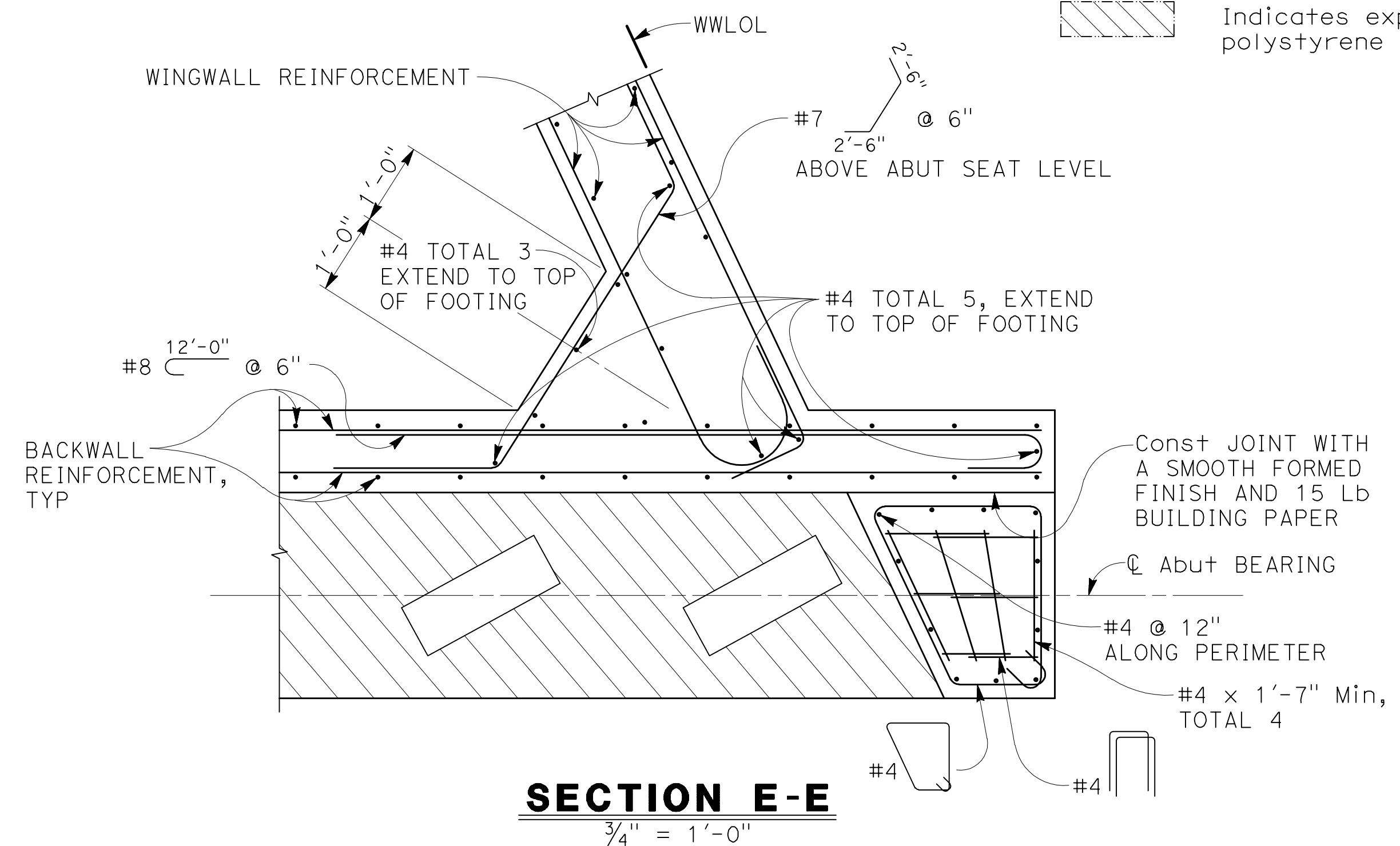
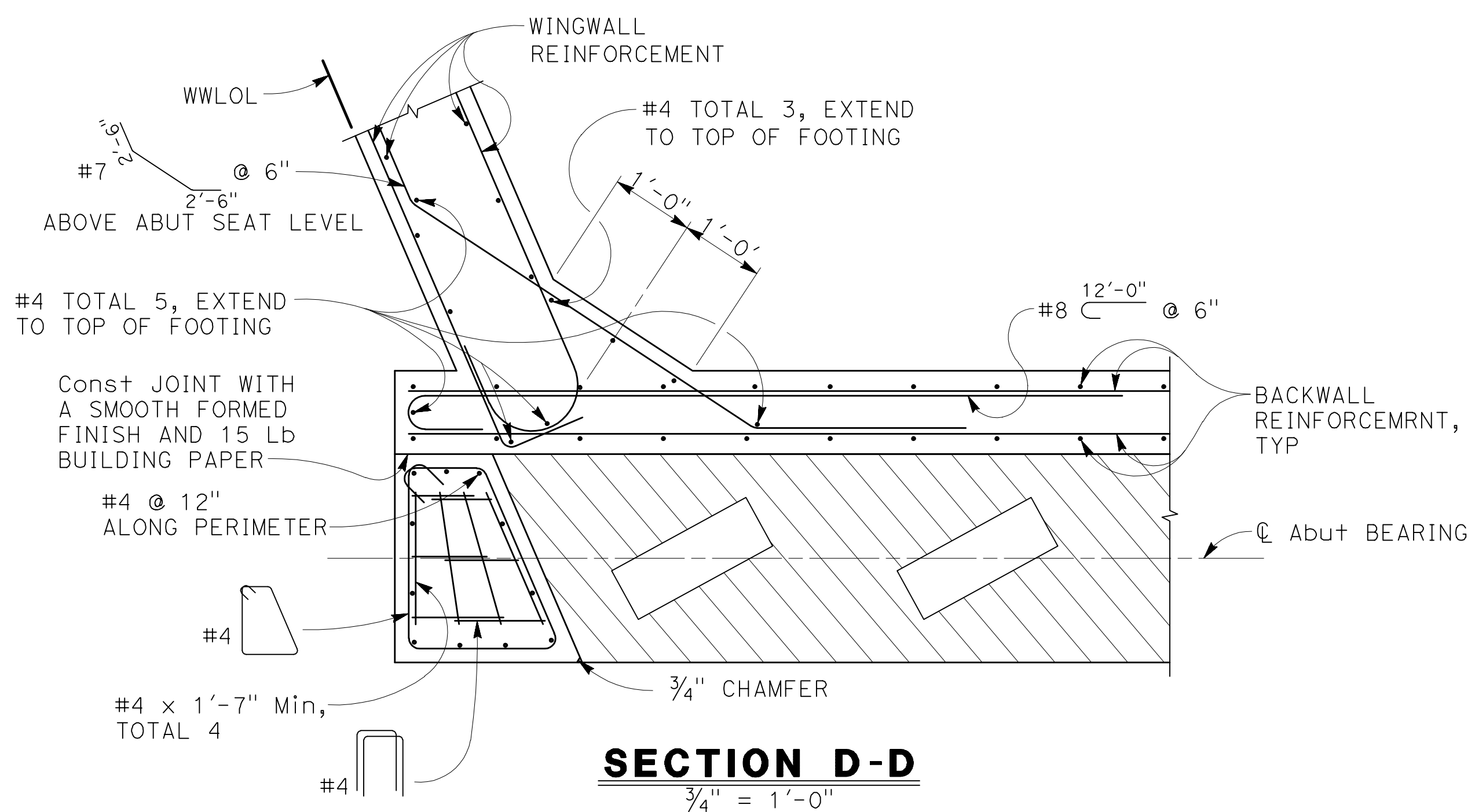
ABUTMENT DETAILS No. 3

DRAWING NO.
S-9
SHT NO.
28 OF 38

PROJECT NO. **BRLO-5937(106)** CONTRACT NO. DATE **9/1/20**

2008149 (2008149S)

LEGEND:
 Indicates expanded polystyrene



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NOTE:
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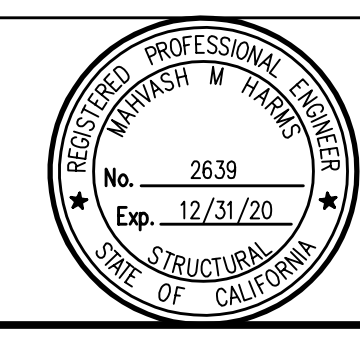
PLAN CHECK SET/NOT FOR CONSTRUCTION (9/1/20)

NO.	REVISIONS	BY	DATE	APP'D
B	95% DESIGN SUBMITTAL	NAV	9/1/20	CV
A	65% PRELIMINARY DESIGN SUBMITTAL	SOO	2/25/13	CV



COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT			
DESIGNED	DATE	WORK ORDER	
NAV	9/1/2020		
DRAWN	DATE	LEVEL BOOK	
JCL	9/1/2020		
CHECKED	DATE	TRANSIT BOOK	
CV	9/1/2020		

SUBMITTED:
MAHVASH M. HARMS
 Structural Engineer

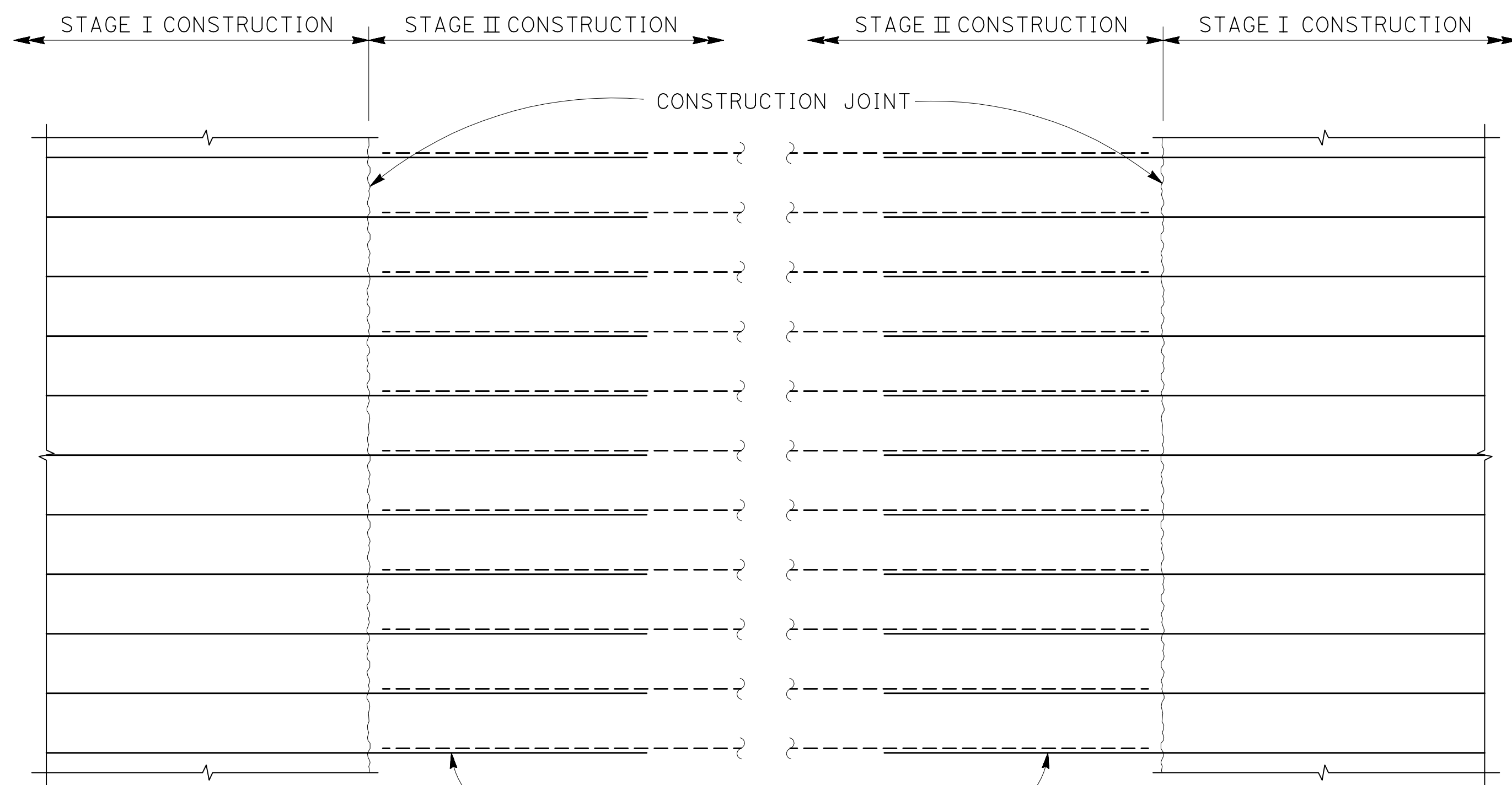


APPROVAL:

LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT) BRIDGE No. 37C0602		
ABUTMENT DETAILS No. 4		
PROJECT NO.	CONTRACT NO.	DATE
BRL0-5937(106)		9/1/20

DRAWING NO.	S-10
SHT NO.	29 OF 38

2008149



NOTE:
 ALL ABUTMENT AND ABUTMENT FOOTING HORIZONTAL REINFORCEMENT SHALL BE SPLICED WITH "SERVICE LEVEL" SPLICES. LAP SPLICES EQUAL TO TWO TIMES THE STANDARD LAP SPLICE MAY BE SUBSTITUTED FOR SERVICE SPLICES.

EXTEND ALL ABUTMENT & ABUTMENT FOOTING HORIZONTAL REINFORCEMENT TO PROVIDE SERVICE SPLICES, SEE NOTE 1

DETAIL 4
 3/4" = 1'-0"

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NO.	REVISIONS	BY	DATE	APP'D
B	95% DESIGN SUBMITTAL	NAV	9/1/20	CV
A	65% PRELIMINARY DESIGN SUBMITTAL	SOO	2/25/13	CV



COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

DESIGNED NAV	DATE 9/1/2020	WORK ORDER
DRAWN JCL	DATE 9/1/2020	LEVEL BOOK
CHECKED CV	DATE 9/1/2020	TRANSIT BOOK

SUBMITTED:
MAHVASH M. HARMS
 Structural Engineer

APPROVAL:

LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C0602

ABUTMENT DETAILS No. 5

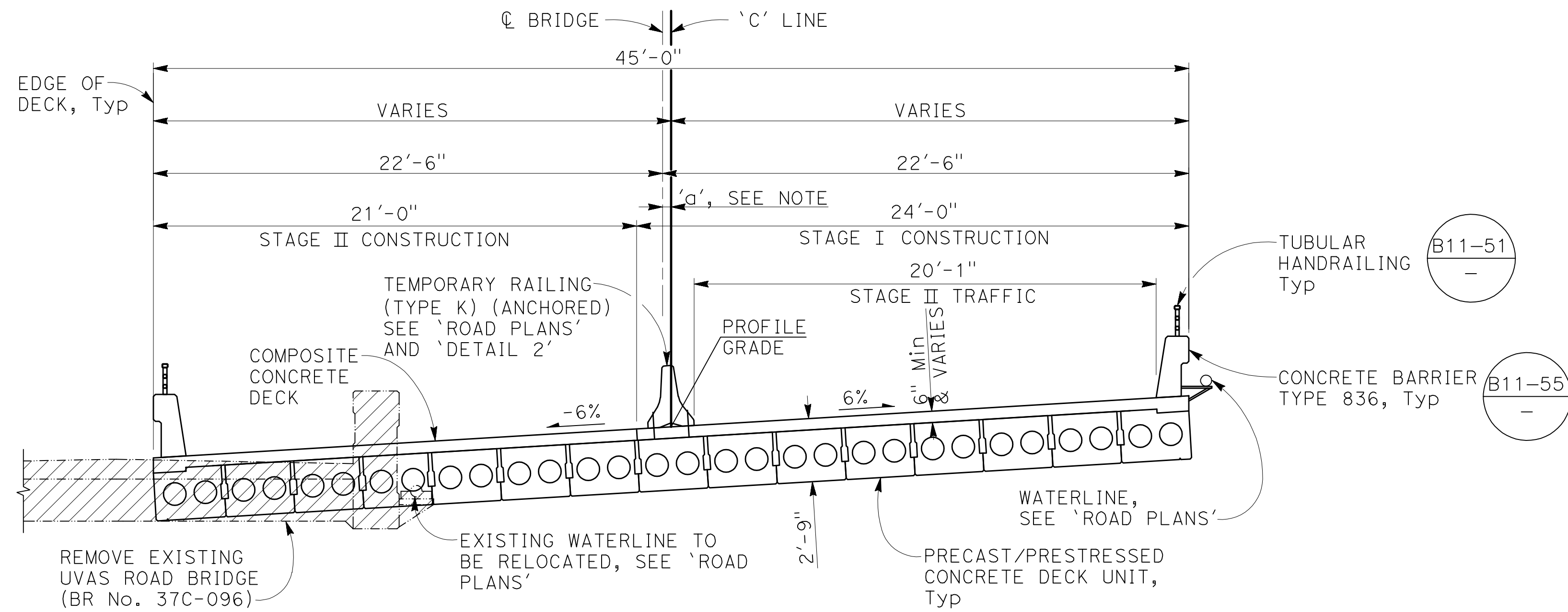
PROJECT NO. **BRL0-5937(106)** CONTRACT NO. DATE **9/1/20**

DRAWING NO. **S-11**

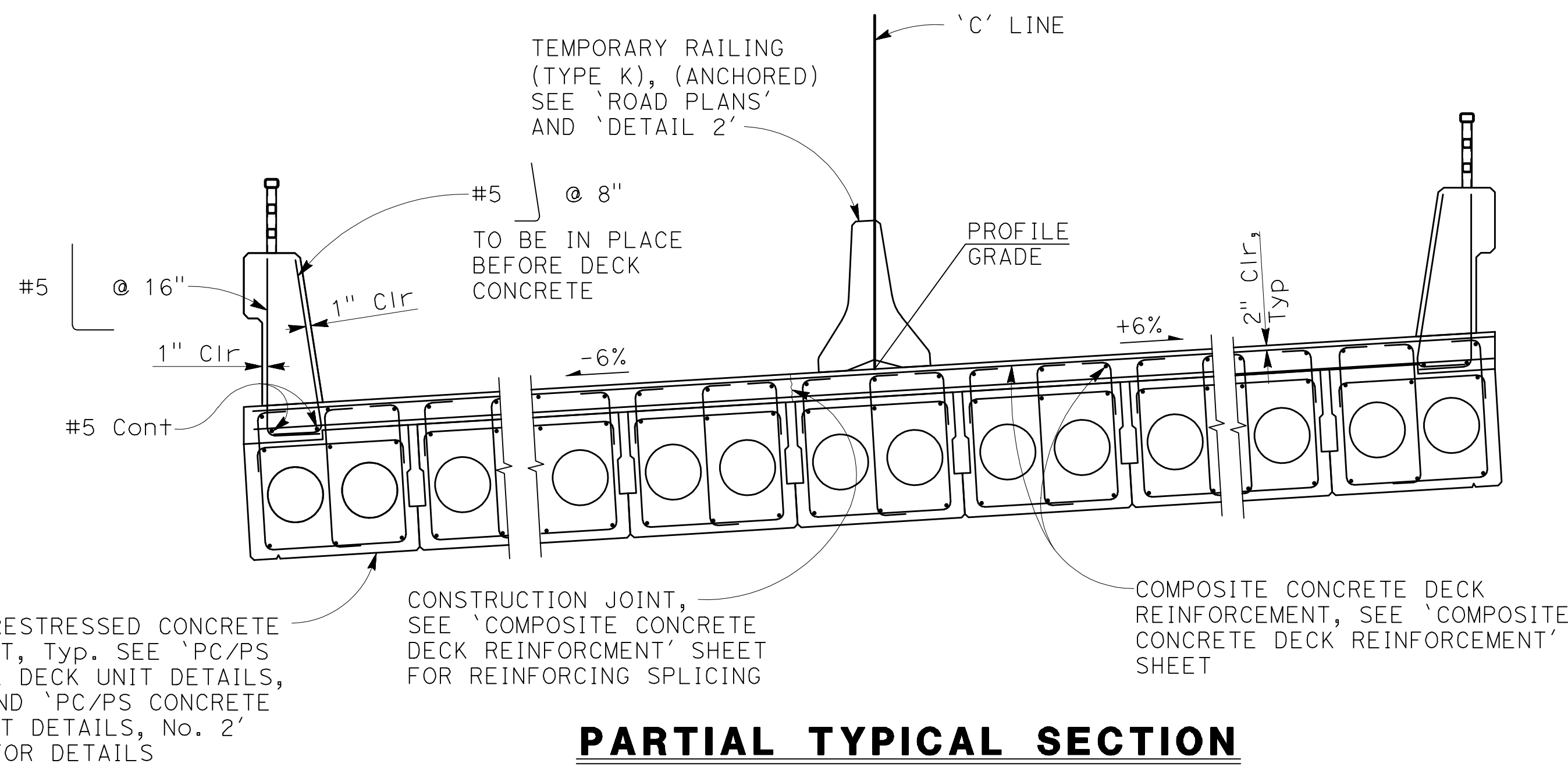
SHT NO. **30 OF 38**

2008149511

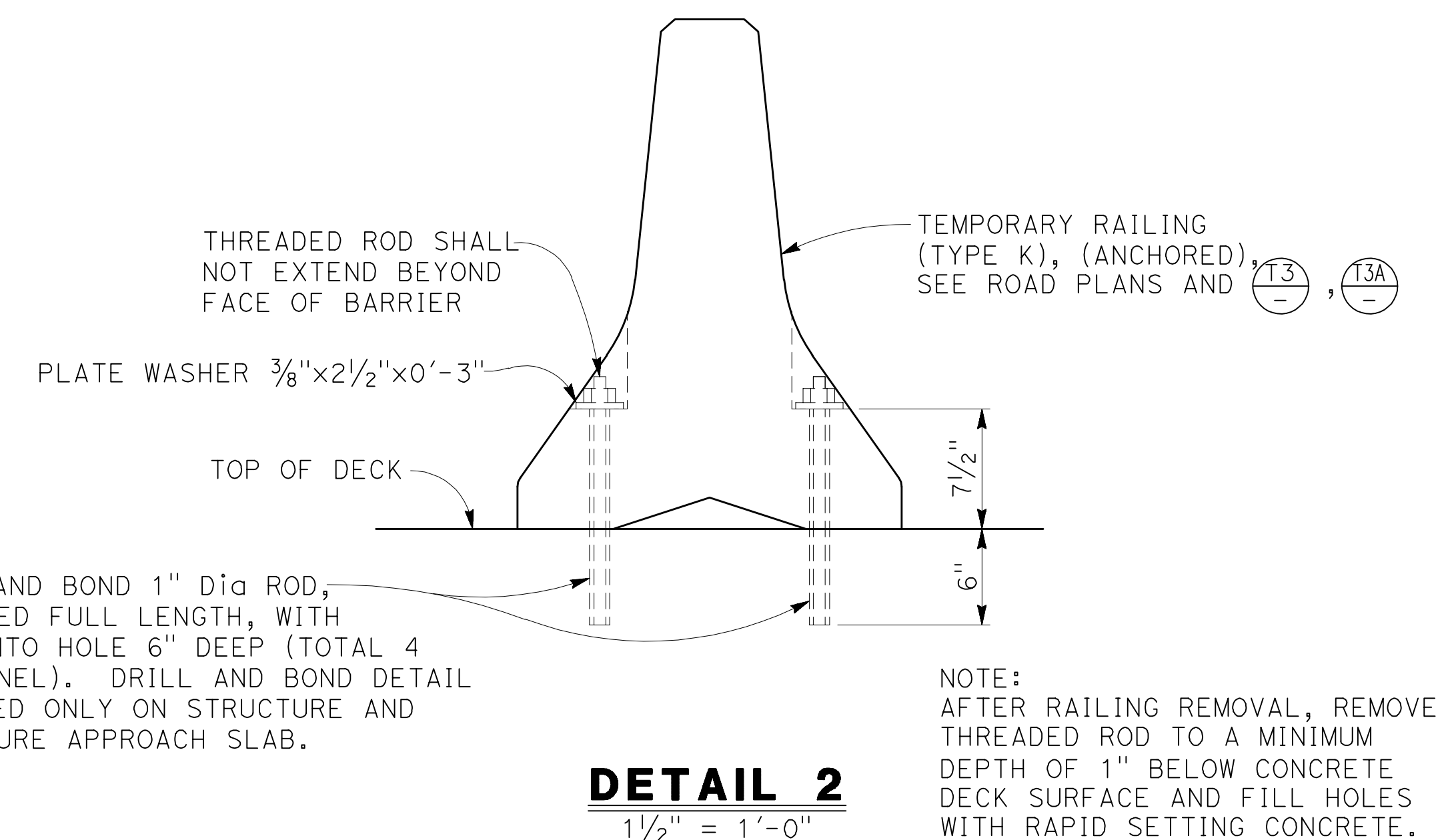
NOTE:
 Dimension 'a' varies along 'C' Line
 = 5/8" at BB centerline
 = 1 1/8" at EB centerline



TYPICAL SECTION
 1/4" = 1'-0"



PARTIAL TYPICAL SECTION
 1/2" = 1'-0"



DETAIL 2
 1/2" = 1'-0"

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

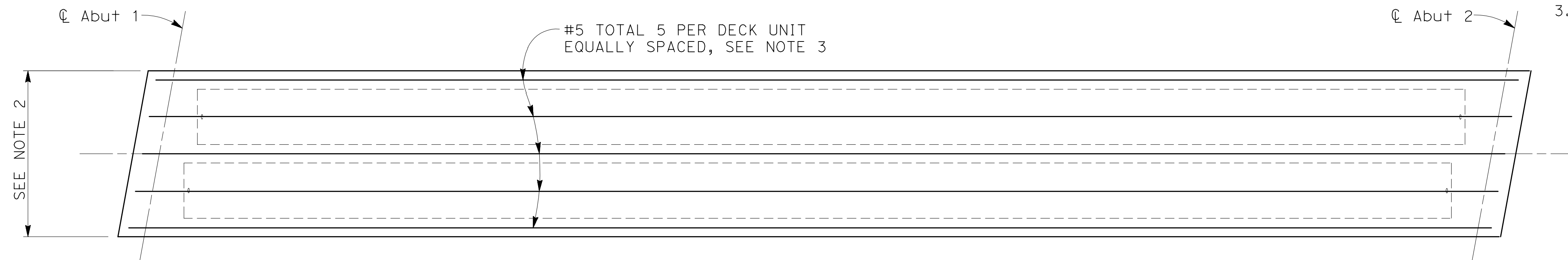
NOTE:
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PLAN CHECK SET/NOT FOR CONSTRUCTION (9/1/20)

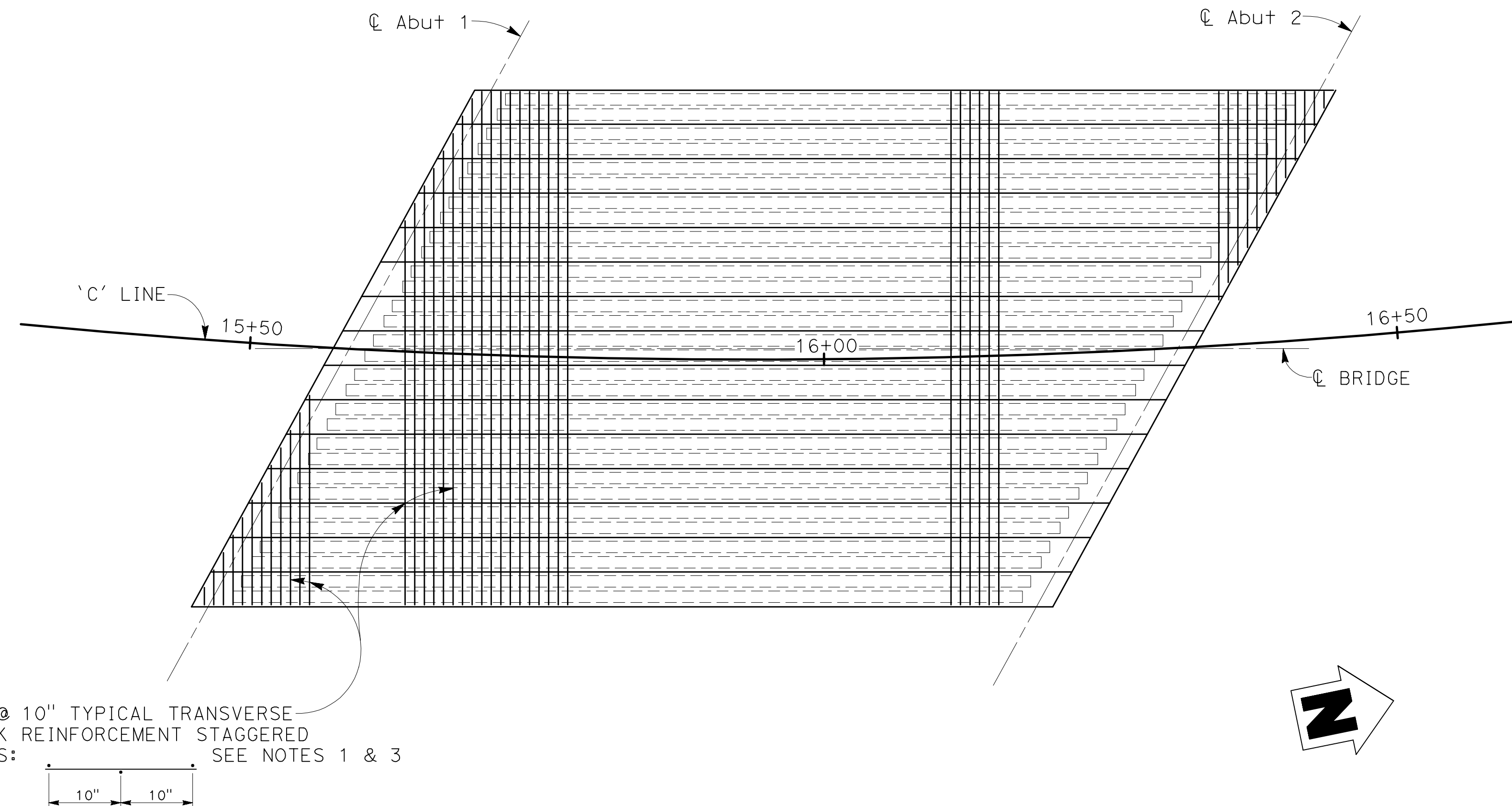
				COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT				LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT) BRIDGE No. 37C0602				DRAWING NO. S-12			
DESIGNED NAV 9/1/2020		DATE 9/1/2020		WORK ORDER		SUBMITTED MAHVASH M. HARMS Structural Engineer		APPROVAL		TYPICAL SECTION		SHEET NO. 31 OF 38			
DRAWN JCL 9/1/2020		DATE 9/1/2020		LEVEL BOOK						PROJECT NO. BRLO-5937(106)		CONTRACT NO.			
CHECKED CV 9/1/2020		DATE 9/1/2020		TRANSIT BOOK						DATE 9/1/20					
REVISIONS				BY				DATE				APP'D			
B 95% DESIGN SUBMITTAL				NAV 9/1/20				CV							
A 65% PRELIMINARY DESIGN SUBMITTAL				SOO 2/25/13				CV							

2008149512

- NOTES:
1. Transverse deck reinforcement shall be placed and spaced normal to \perp Bridge.
 2. For width of deck unit, see 'PC/PS CONCRETE DECK UNIT DETAILS No. 2' sheet.
 3. Deck reinforcement may be spliced with service splices. Lap splices equal to two times the standard lap splice may be substituted for the service splices.



COMPOSITE CONCRETE DECK REINFORCEMENT PLAN - TYPICAL DECK UNIT
NO SCALE



COMPOSITE CONCRETE DECK REINFORCEMENT PLAN - TRANSVERSE REINFORCEMENT
 $1/8" = 1'-0"$

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STRUCTURAL ENGINEERS

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PLAN CHECK SET/NOT FOR CONSTRUCTION (9/1/20)

COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

**LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C0602**

DRAWING NO.
S-13

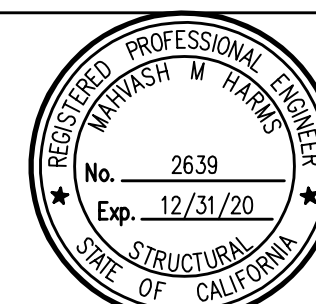
COMPOSITE CONCRETE DECK REINFORCEMENT

SHT NO.
32 OF 38

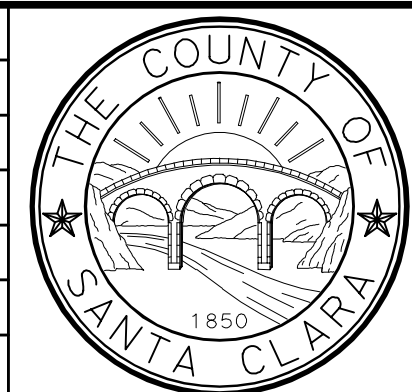
PROJECT NO. **BRLO-5937(106)** CONTRACT NO. DATE **9/1/20**

DESIGNED	DATE	WORK ORDER
NAV	9/1/2020	
DRAWN	DATE	LEVEL BOOK
JCL	9/1/2020	
CHECKED	DATE	TRANSIT BOOK
CV	9/1/2020	

SUBMITTED:
MAHVASH M. HARMS
Structural Engineer



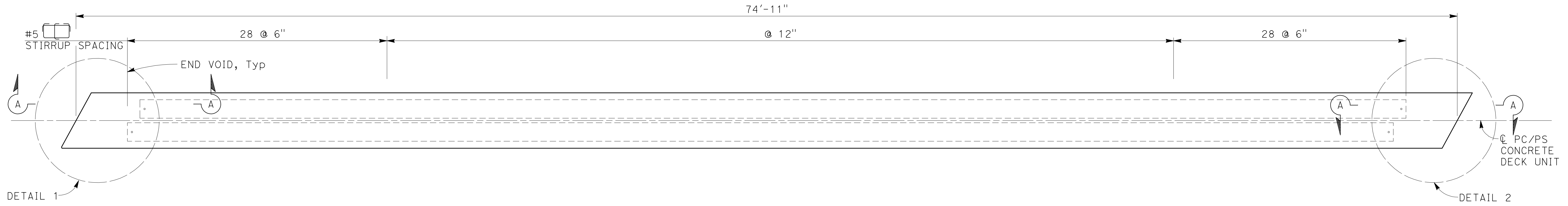
APPROVAL:



NO.	REVISIONS	BY	DATE	APP'D
B	95% DESIGN SUBMITTAL	NAV	9/1/20	CV
A	65% PRELIMINARY DESIGN SUBMITTAL	SOO	2/25/13	CV

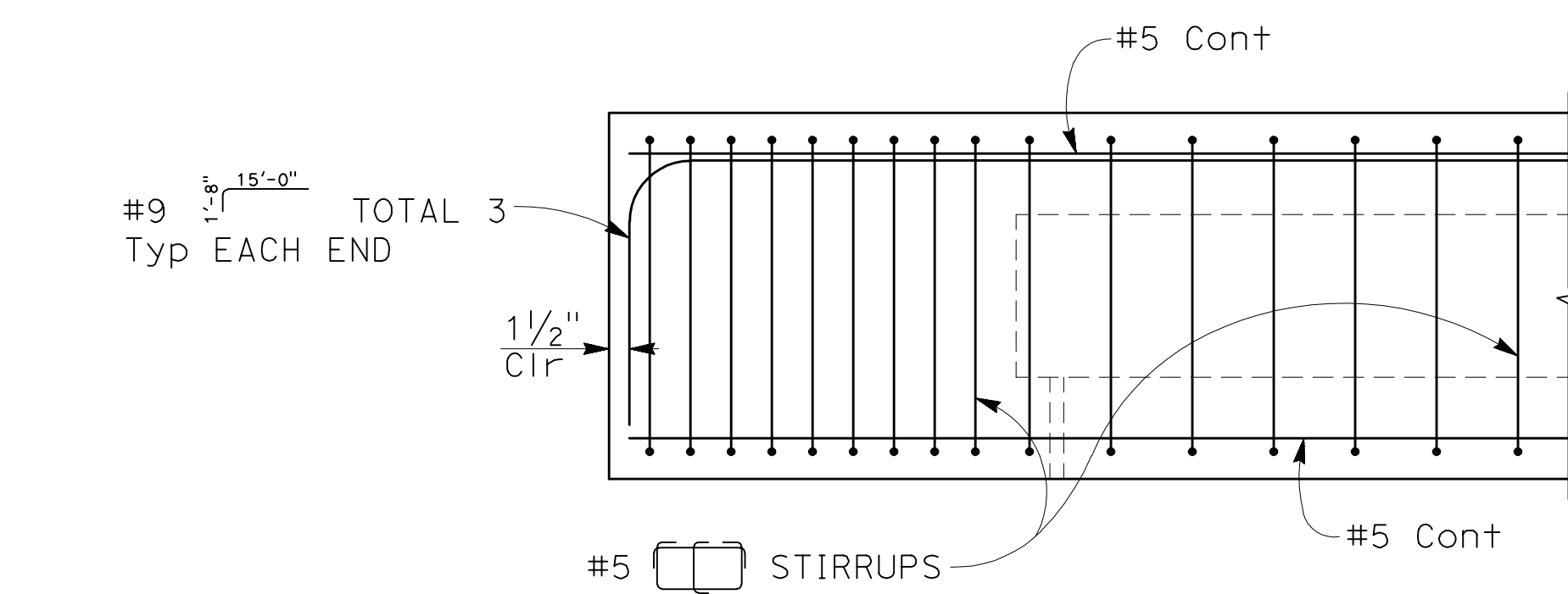
2008149
(2008149S13)

NOTE:
For 'PRESTRESSING NOTES' and 'DATA TABLE'
see, 'PC/PS CONCRETE DETAILS No. 2' sheet.



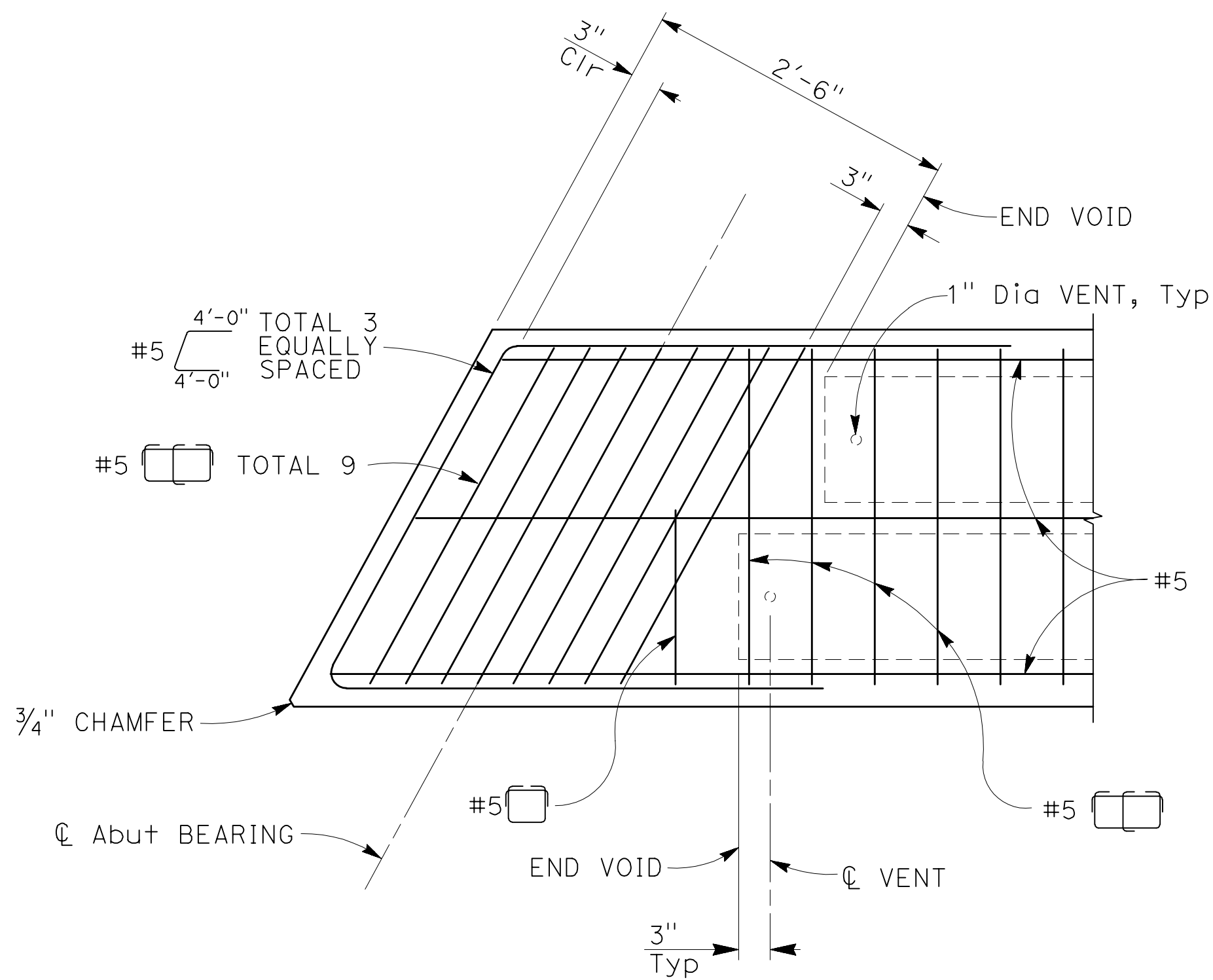
TYPICAL PRECAST PRESTRESSED CONCRETE DECK UNIT (SLAB TYPE)

$\frac{3}{8}'' = 1'-0''$



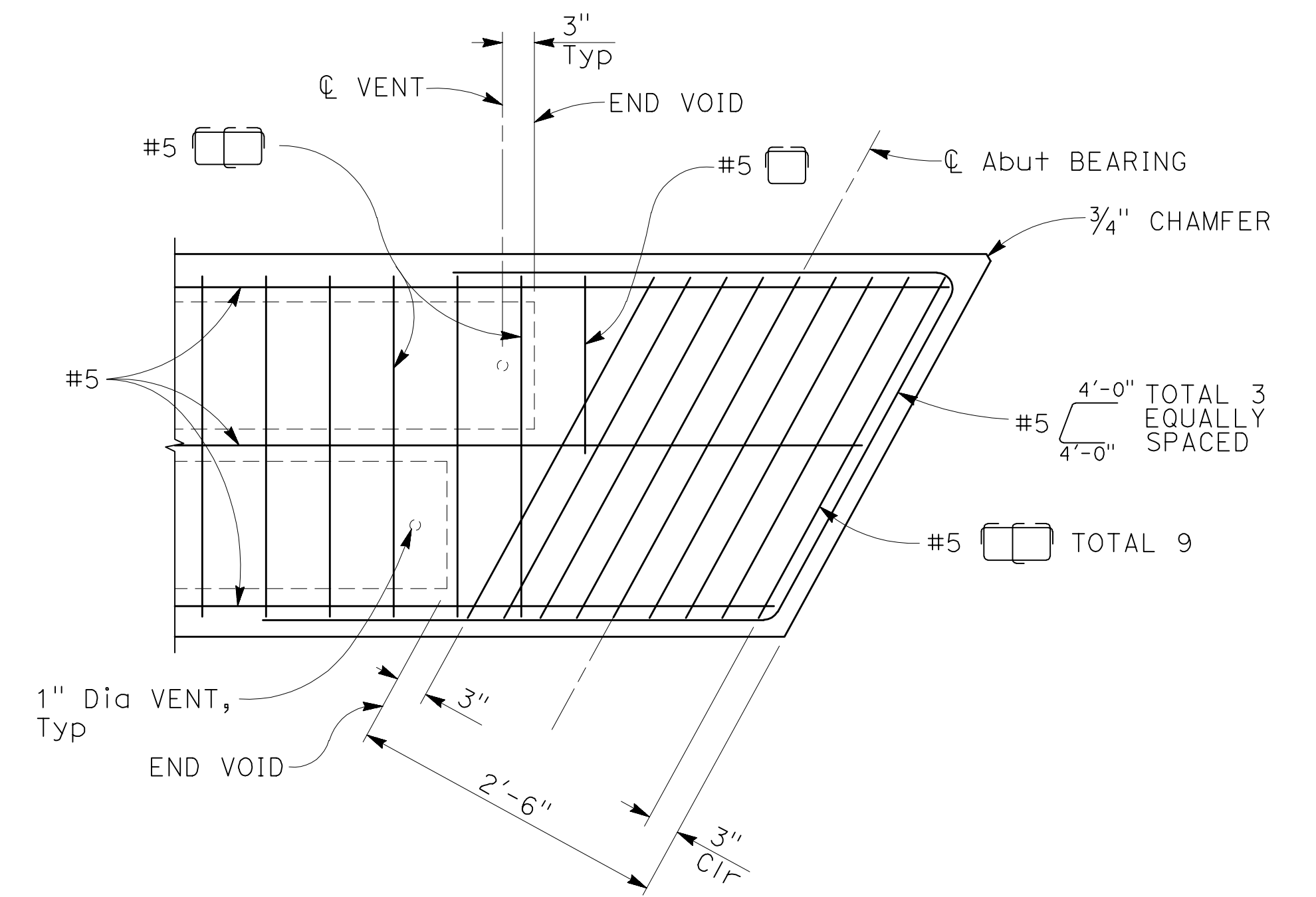
SECTION A-A

$1'' = 1'-0''$



DETAIL 1

$1'' = 1'-0''$



DETAIL 2

$1'' = 1'-0''$

BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS

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



NOTE:
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ORDERING OR FABRICATING ANY MATERIAL

PLAN CHECK SET/NOT FOR CONSTRUCTION (9/1/20)

COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

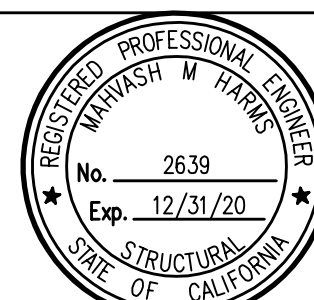
**LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C0602**

DRAWING NO.
S-14

DESIGNED: **NAV** 9/1/2020
DATE
DRAWN: **JCL** 9/1/2020
DATE
CHECKED: **CV** 9/1/2020
DATE

WORK ORDER
LEVEL BOOK
TRANSIT BOOK

SUBMITTED BY:
MAHVASH M. HARMS
Structural Engineer

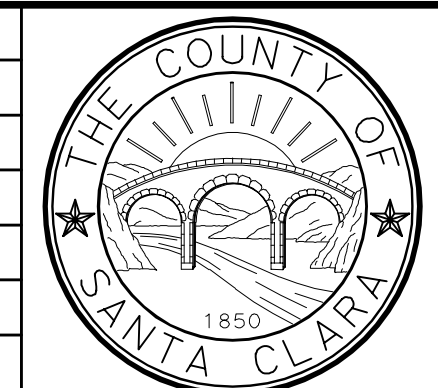


APPROVAL:

PC/PS CONCRETE DECK UNIT DETAILS No. 1

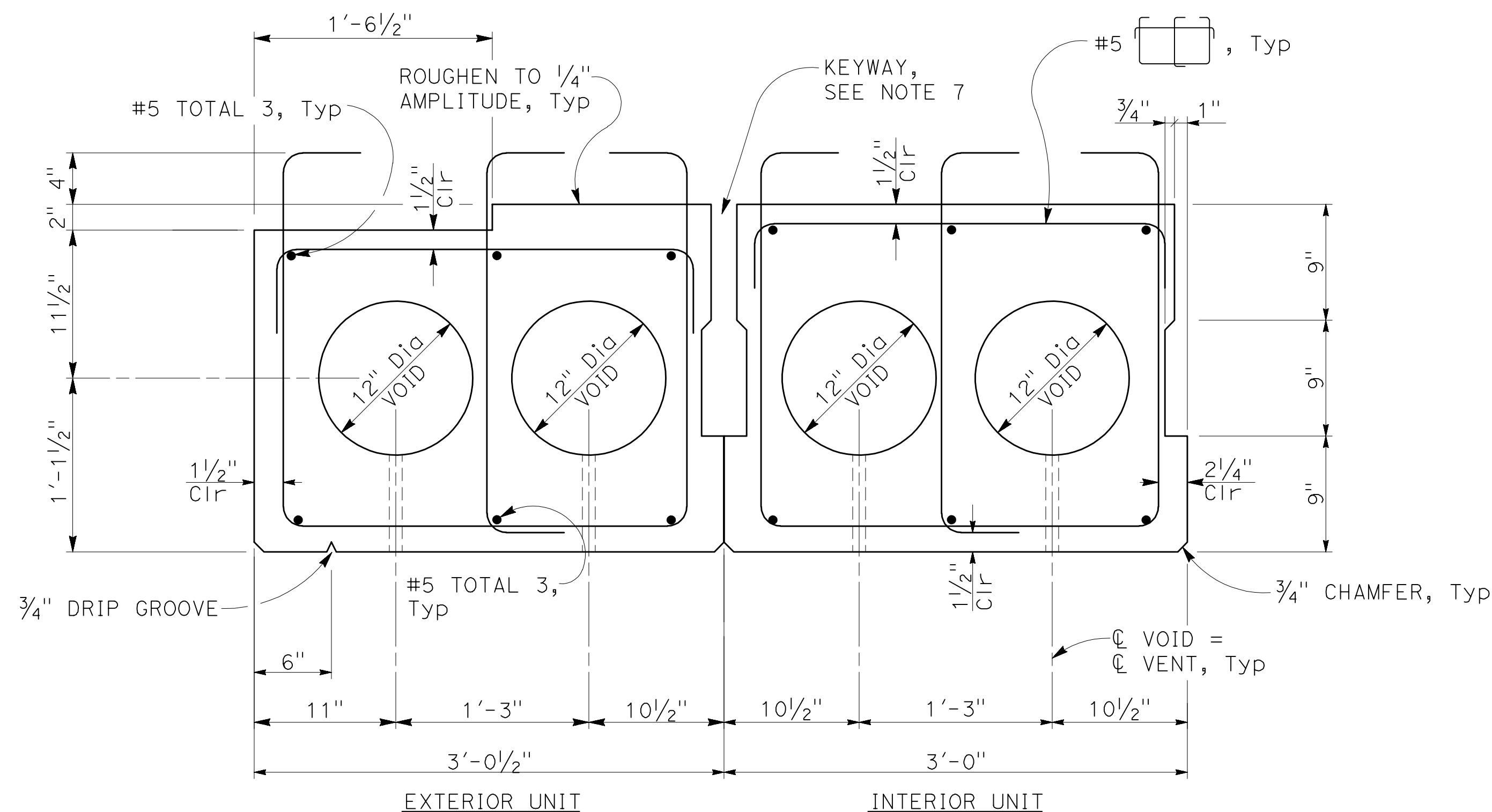
SHT NO.
33 of 38

NO.	REVISIONS	BY	DATE	APP'D
B	95% DESIGN SUBMITTAL	NAV	9/1/20	CV
A	65% PRELIMINARY DESIGN SUBMITTAL	SOO	2/25/13	CV



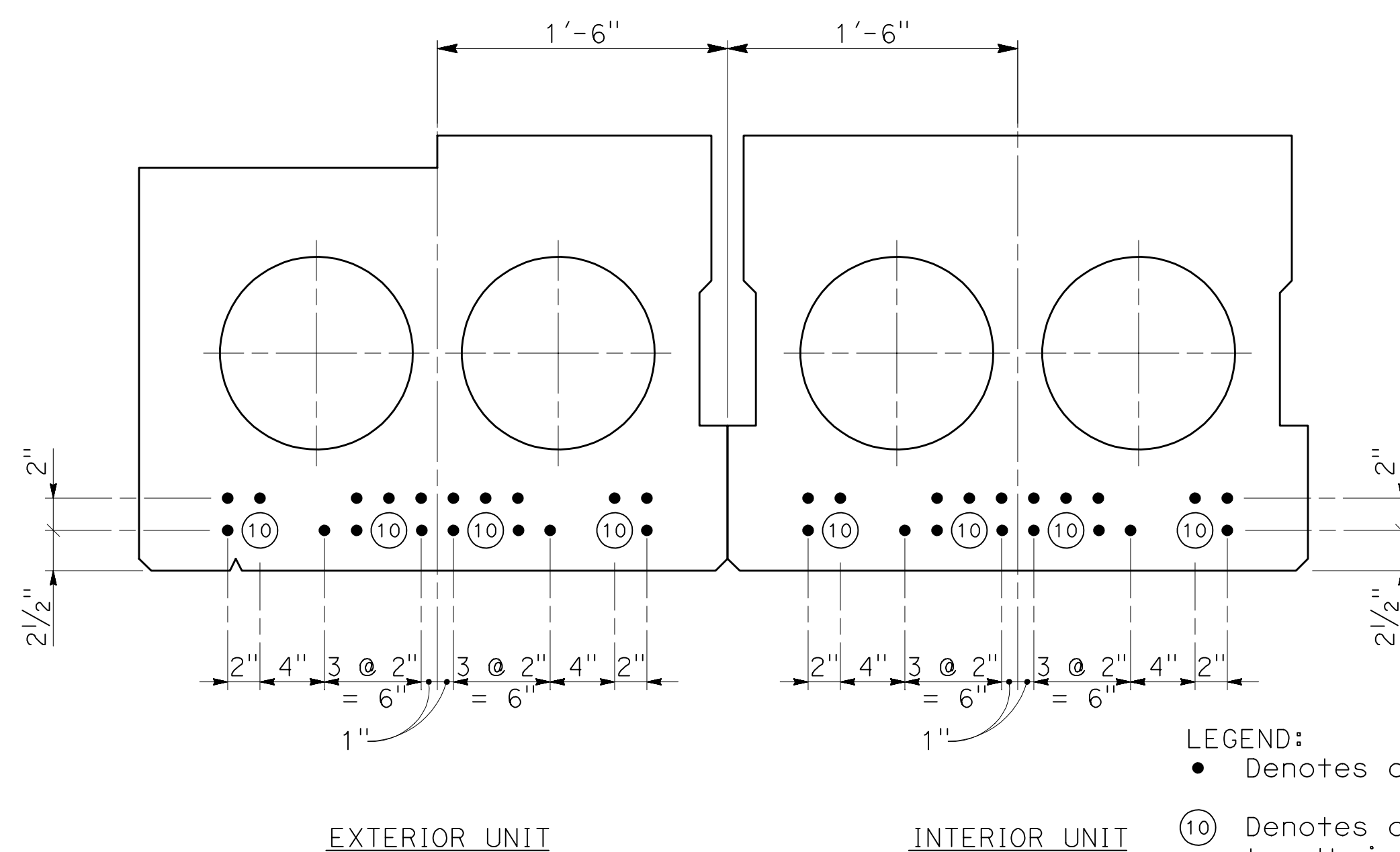
PROJECT NO. **BRL0-5937(106)** CONTRACT NO. DATE **9/1/20**

2008149514



PRECAST/PRESTRESSED CONCRETE SLAB UNIT

1 1/2" = 1'-0"



STRAND LAYOUT

1 1/2" = 1'-0"

LEGEND:
 • Denotes continuously bonded strand
 ⑩ Denotes debonded strand and debonded length in feet, measured from the ends of the Precast Prestressed Concrete Deck Unit.

PRESTRESSING DATA TABLE

Girder	# Units	P _{jack} (k/unit)	Number of P/S strands	Δ _{f_{PT}} (Ksi)
Precast P/S concrete slab unit	15	970	22	21.0

Midspan Dead Load Deflection
In Inches

Girder	Deck	Barrier
Precast P/S concrete deck unit	0.69	0.15

PRESTRESSING NOTES

- P_{jack} is the jacking force required at the point of control along the span. The jacking force does not include any fabrication specific losses.
- The maximum tensile stress in the prestressing steel upon release shall not exceed 75% of the specified minimum ultimate tensile strength of the prestressing steel.
- The maximum temporary tensile stress (jacking stress) in the prestressing steel shall not exceed 80% of the specified minimum ultimate tensile strength of the pre-stressing steel.
- Concrete strength:
 f'_{ci} = 5000 psi at time of initial stressing
 f'_c = 6000 psi at 28 days
- Deflection components are informational and will be used to set screed line elevations.
- Screed line elevations for deck concrete will be determined by the Contractor.
- Keyways to be filled with Class 1 Concrete (4000 psi @ 28 days) a minimum of 14 days prior to placement of composite concrete slab.
- Design based on 270 ksi low relaxation 0.6" diameter strand.
- Slab designed for pretensioning.
- Δ_{FPT} is the assumed total loss in prestressing steel stress.

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STRUCTURAL ENGINEERS

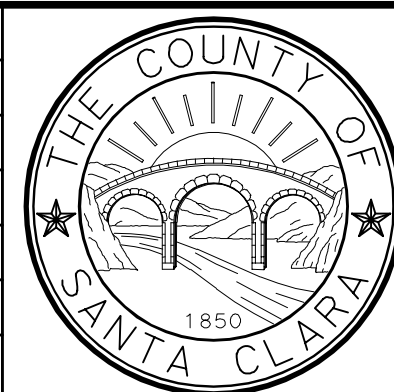
865 The Alameda
San Jose, California 95126
408-296-5515



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B	95% DESIGN SUBMITTAL	NAV	9/1/20	CV
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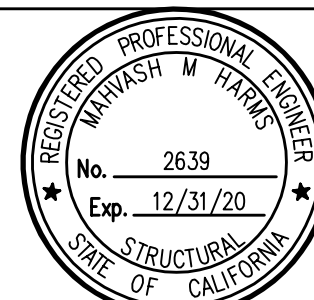


COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

NAV 9/1/2020
DESIGNED DATE
JCL 9/1/2020
DRAWN DATE
CV 9/1/2020
CHECKED DATE

WORK ORDER
LEVEL BOOK
TRANSIT BOOK

SUBMITTED BY
MAHVASH M. HARMS
Structural Engineer



APPROVAL:

**LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C0602**

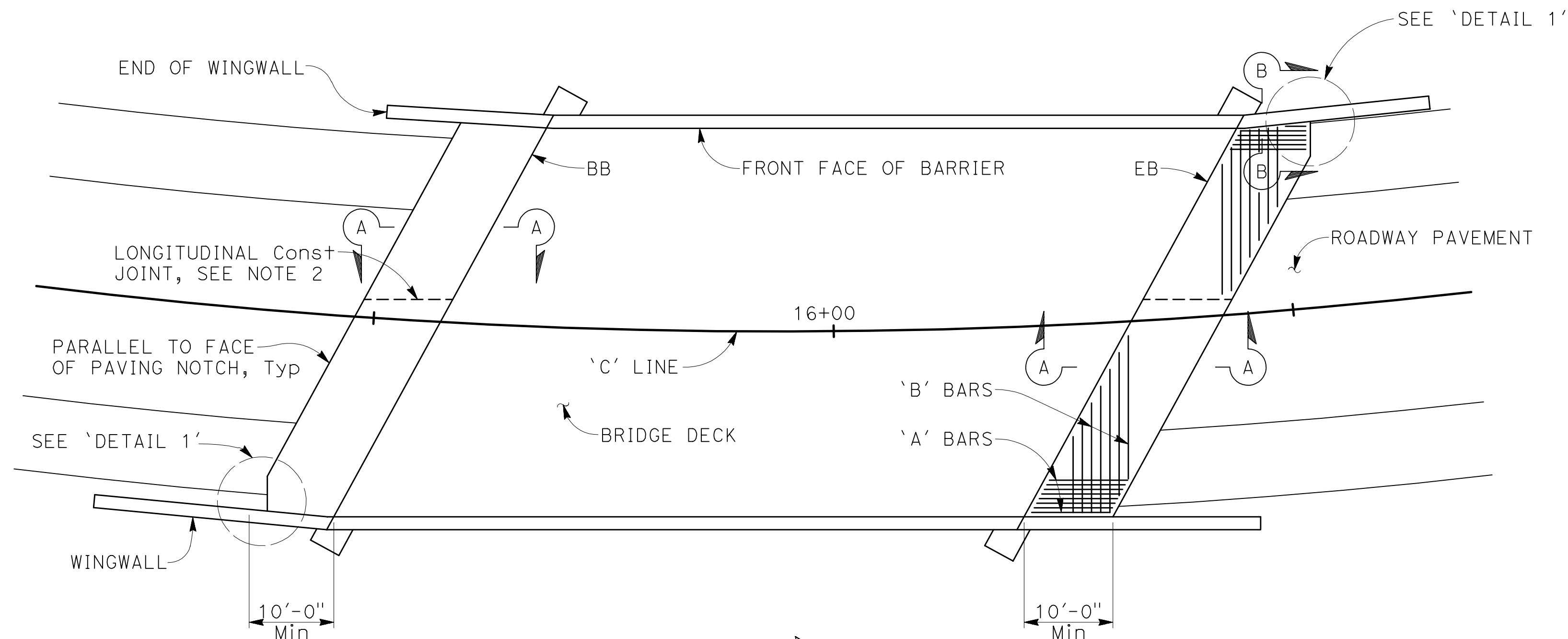
DRAWING NO.
S-15

PC/PS CONCRETE DECK UNIT DETAILS No. 2

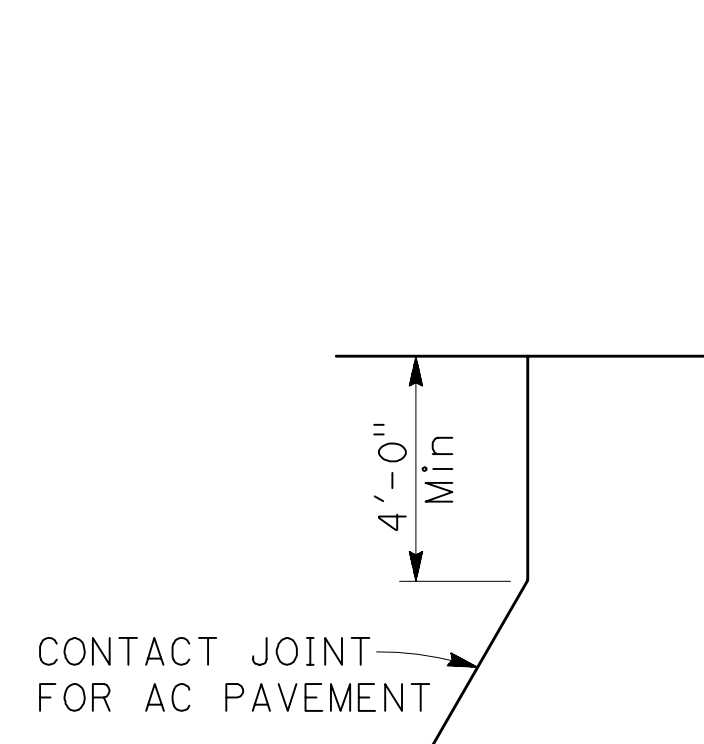
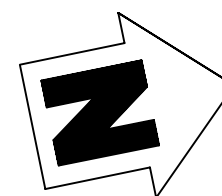
SHT NO.
34 OF 38

PROJECT NO. **BRLO-5937(106)** CONTRACT NO. DATE **9/1/20**

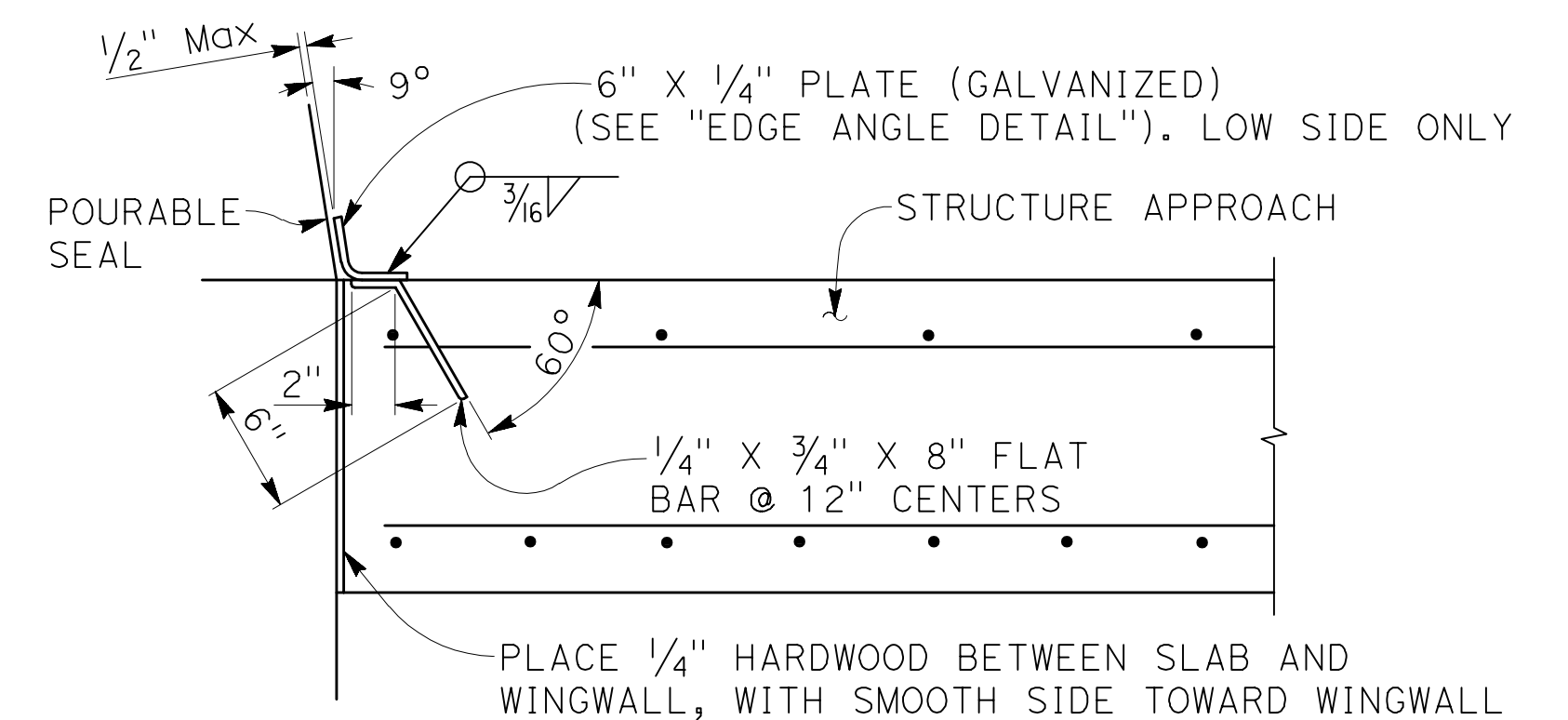
2008149 (2008149S15)



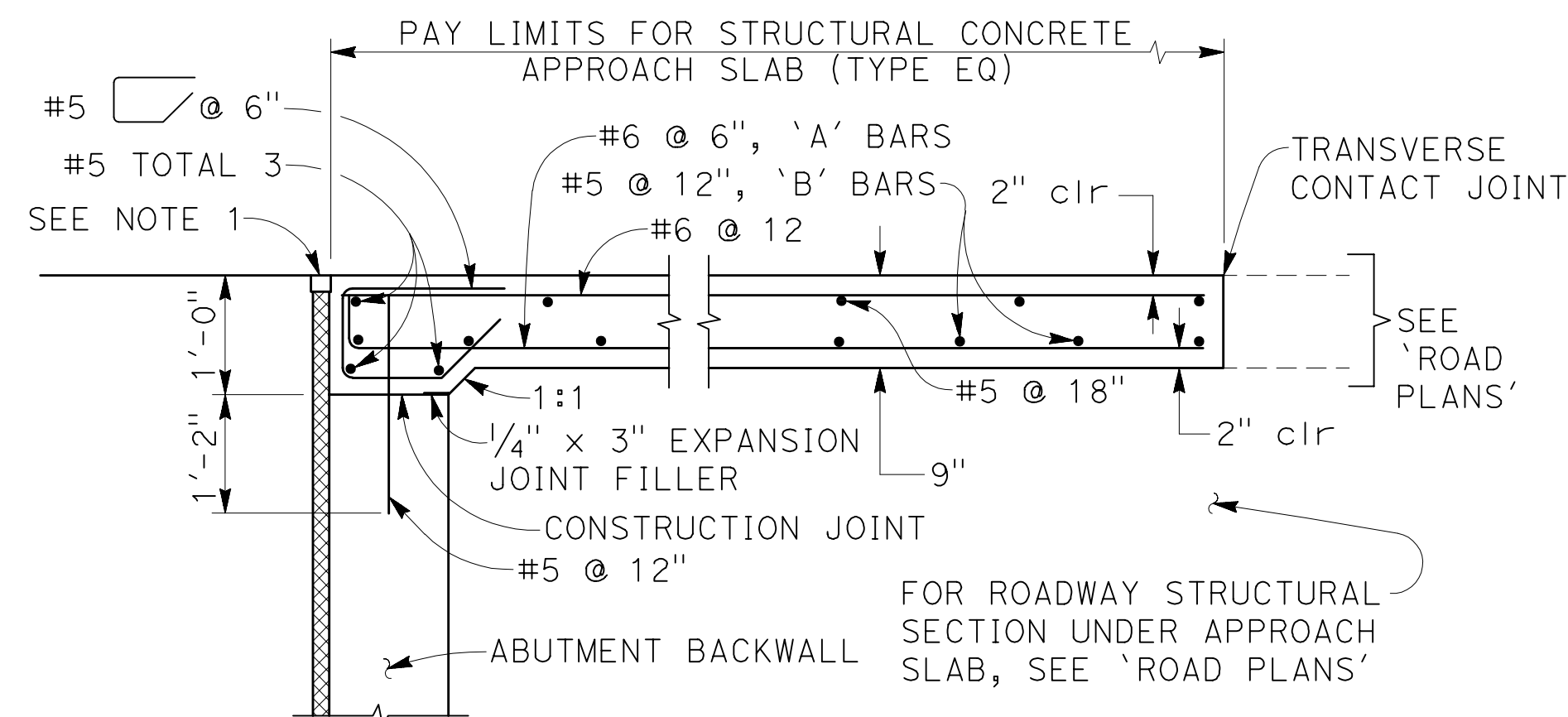
PLAN
NO SCALE



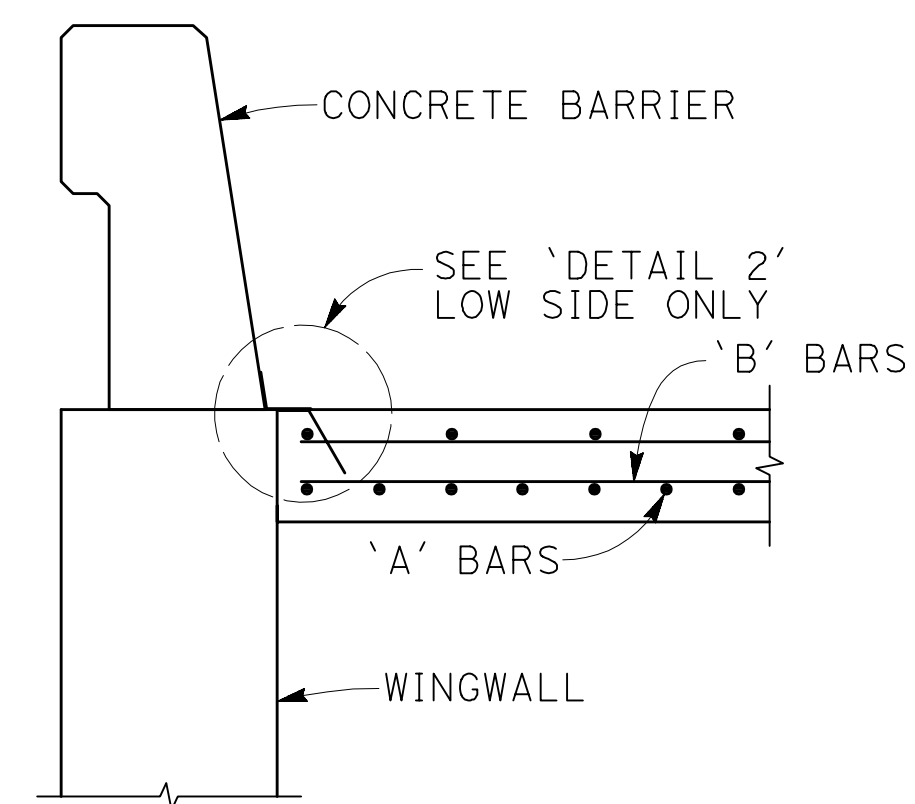
DETAIL 1
NO SCALE



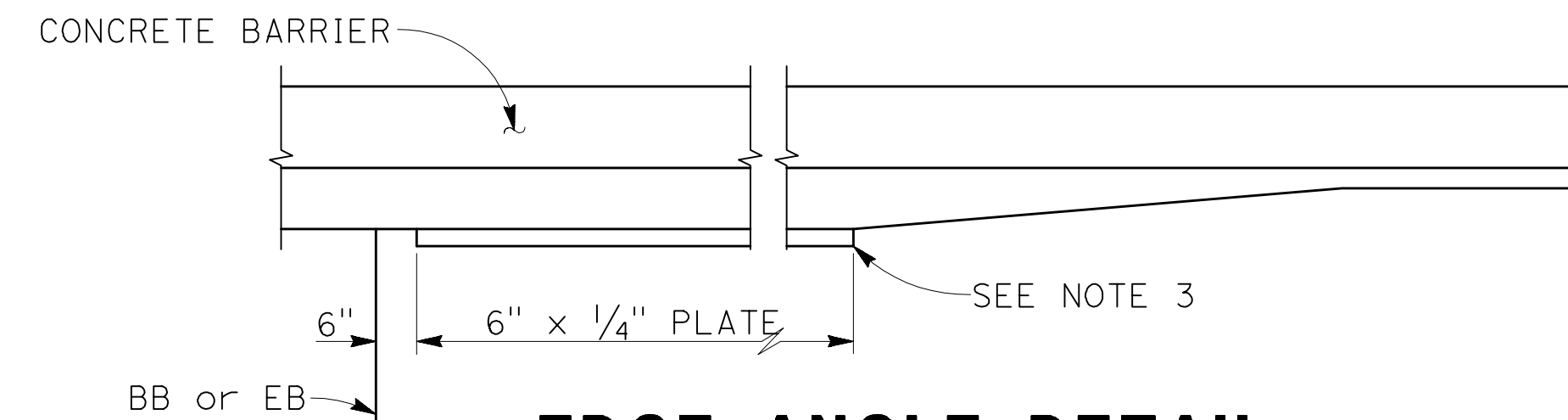
DETAIL 2
1/2" = 1'-0"



SECTION A-A
3/4" = 1'-0"



SECTION B-B
3/4" = 1'-0"



EDGE ANGLE DETAIL
1/2" = 1'-0"

NOTES:

1. For details not noted or shown, see 'JOINT PROTECTION - DETAIL 2' on 'ABUTMENT DETAILS No. 1' sheet. Adjust bar reinforcement to clear a sawcut for sealed joint, when required.
2. Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines.
3. End plate at beginning of barrier transition, end of wing wall or end of structure approach as applicable.
4. At the contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along \perp roadway.
5. For drainage details, see 'STRUCTURE APPROACH DRAINAGE DETAILS' sheet.

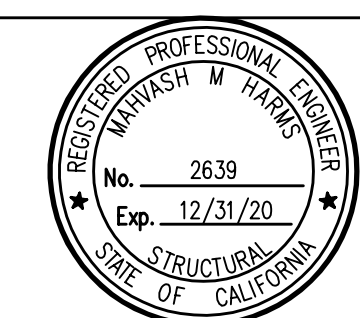
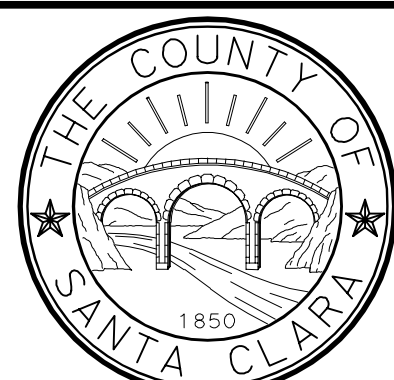
BIGGS CARDOSA ASSOCIATES INC
STRUCTURAL ENGINEERS

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

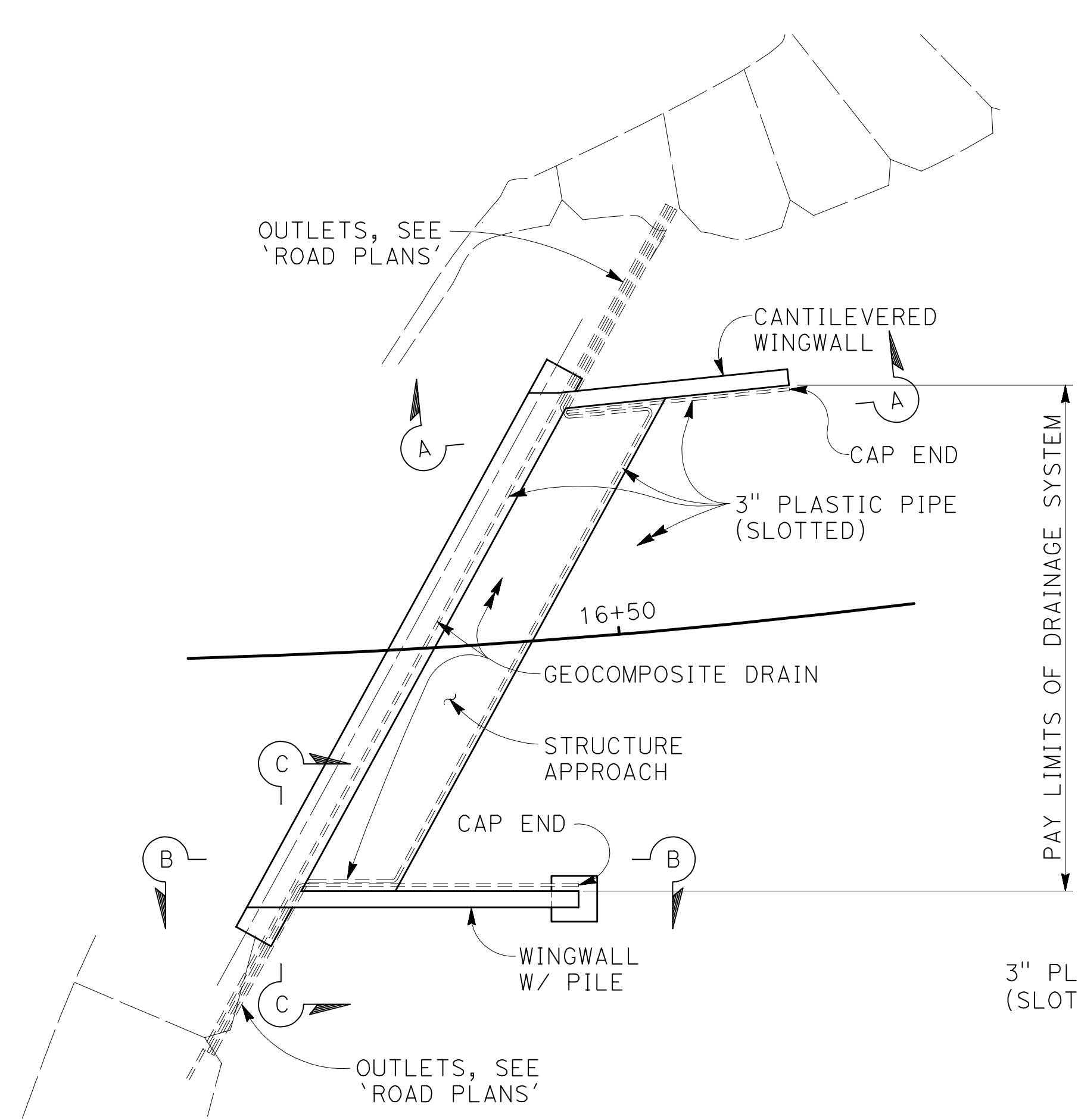
NOTE:
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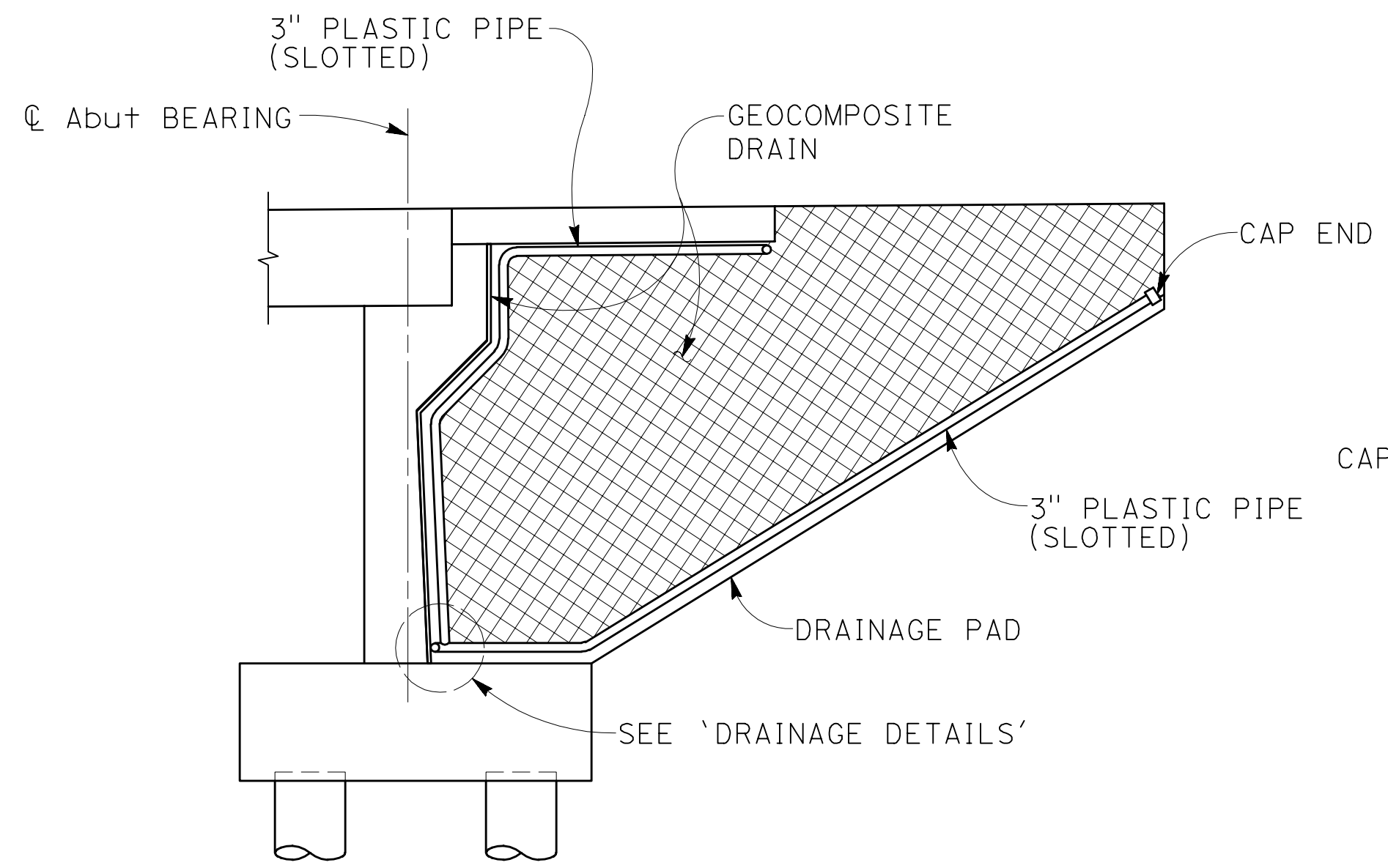
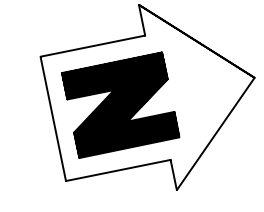
				COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT				LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT) BRIDGE No. 37C0602				DRAWING NO. S-16	
				SUBMITTED: MAHVASH M. HARMS Structural Engineer				APPROVAL:				SHT NO. 35 OF 38	
				DESIGNED: JCL DATE: 9/1/2020				WORK ORDER:				PROJECT NO. BRLO-5937(106)	
				DRAWN: CV DATE: 9/1/2020				LEVEL BOOK:				CONTRACT NO.:	
				CHECKED: DATE:				TRANSIT BOOK:				DATE: 9/1/20	
				NO. REVISIONS				BY DATE APP'D				CONTRACT NO.:	



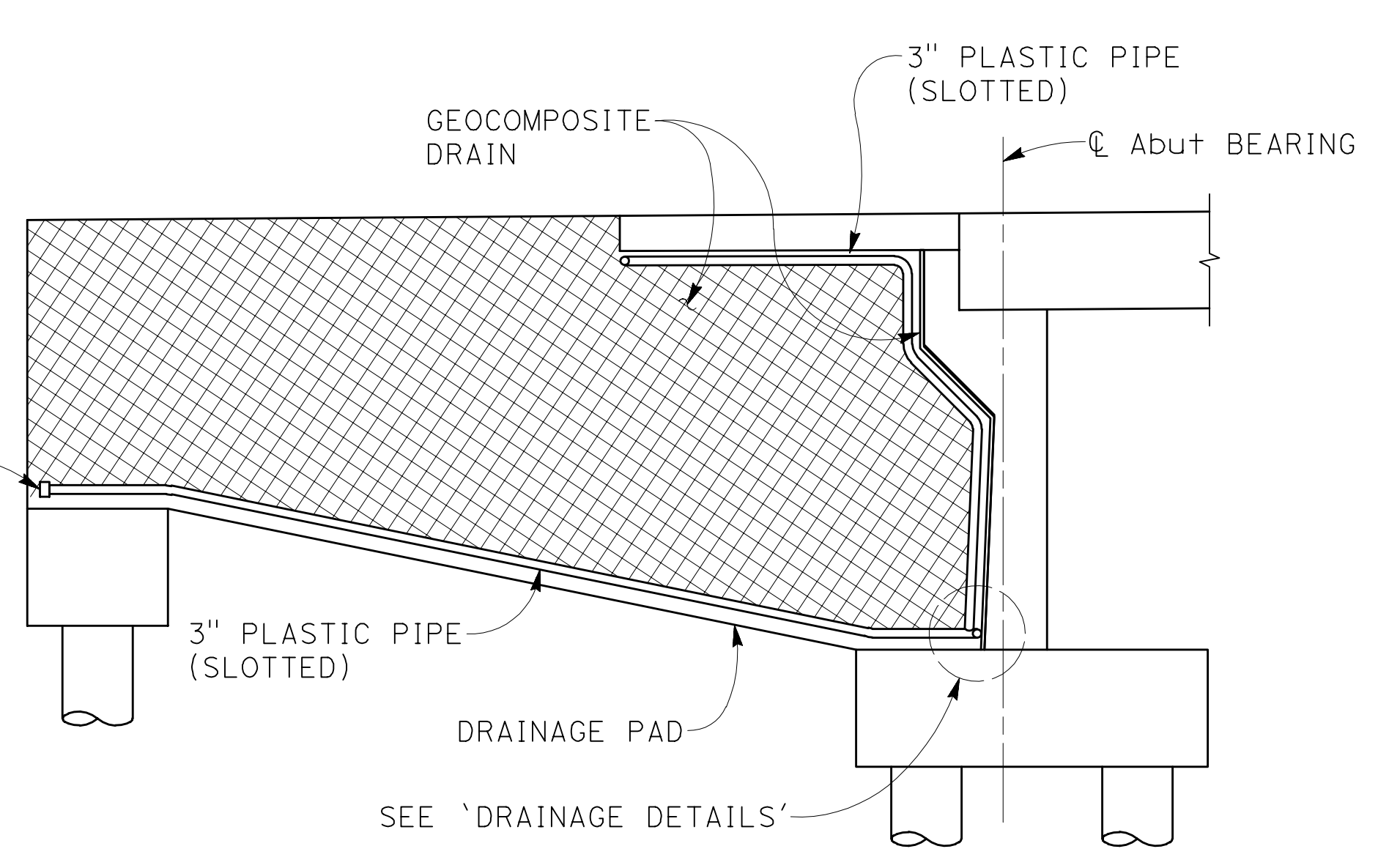
2008149516



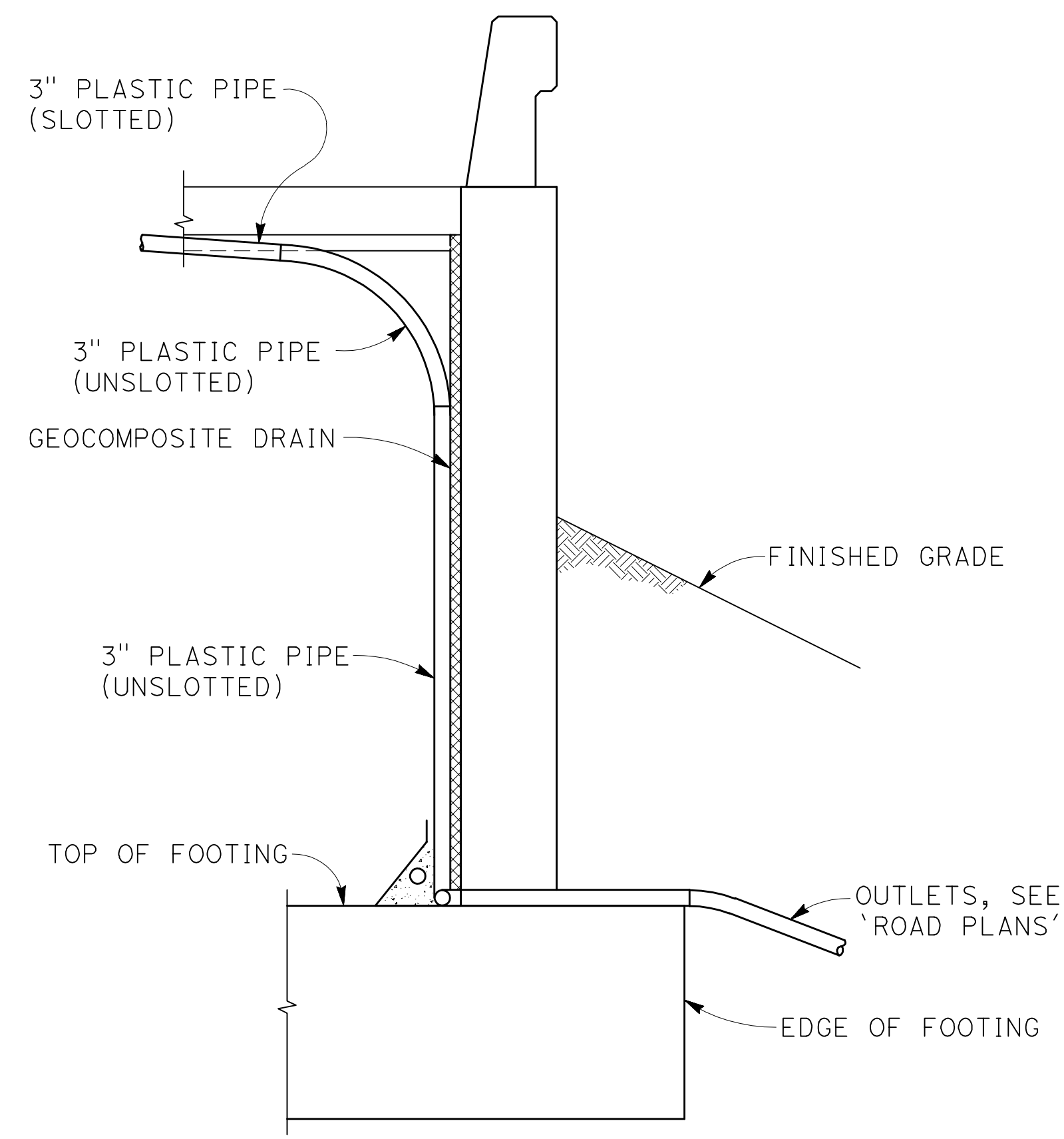
TYPICAL PLAN
1" = 10'



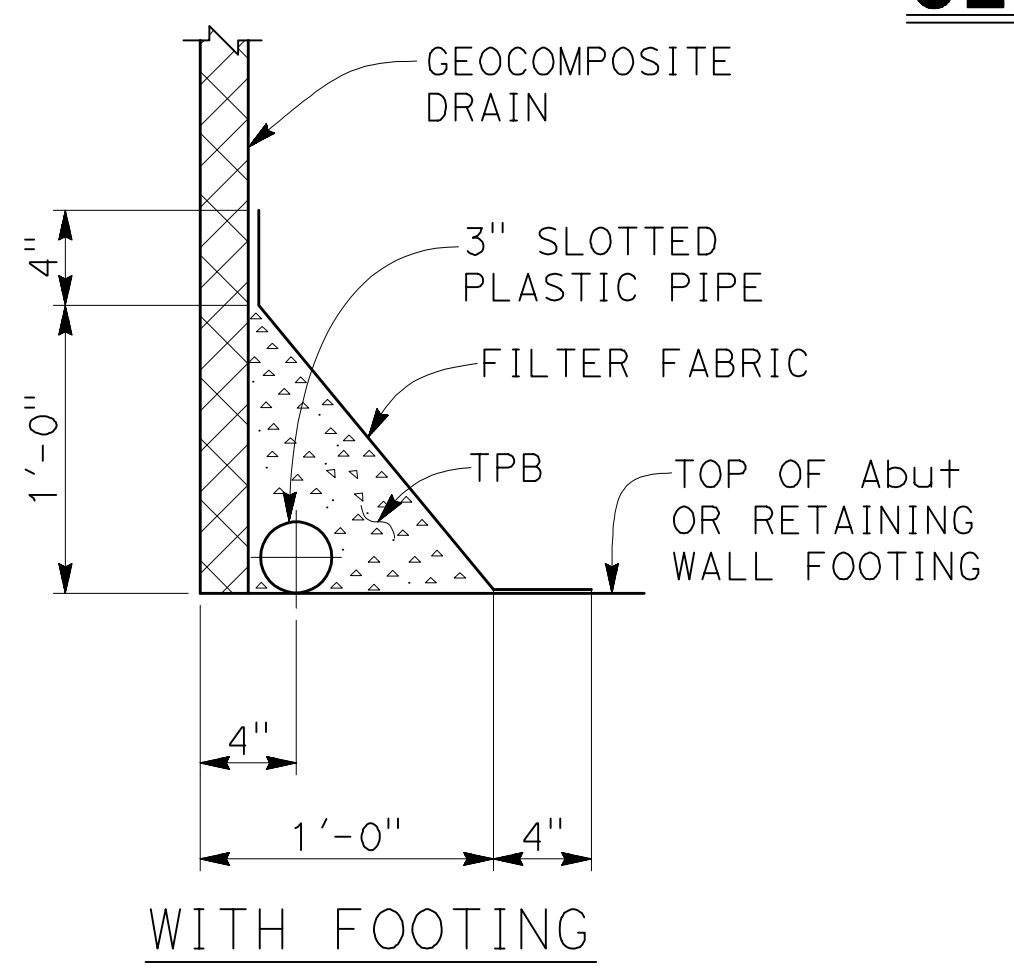
SECTION A-A
1/4" = 1'-0"



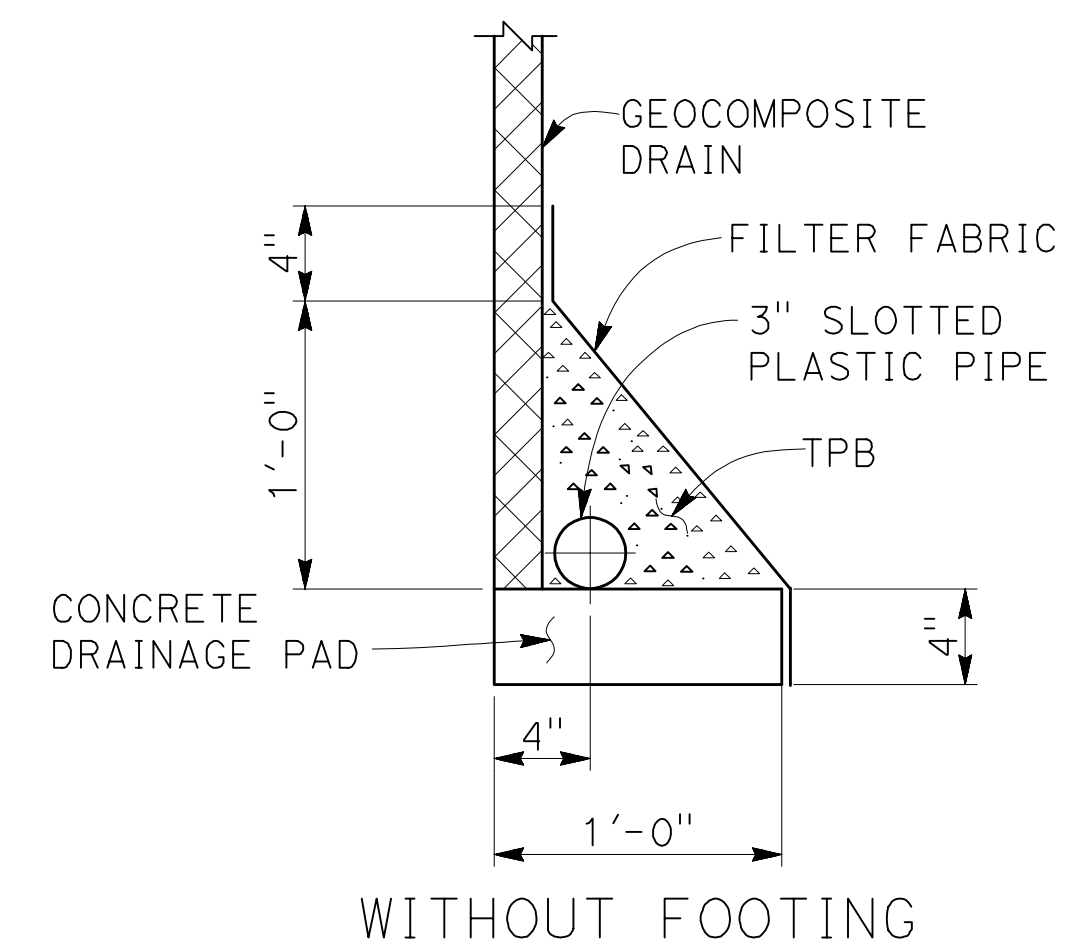
SECTION B-B
1/4" = 1'-0"



NOTE:
BENDS AND JUNCTIONS IN 3"
PLASTIC PIPE ARE 30" RADIUS Min.
SECTION C-C
1/2" = 1'-0"



WITH FOOTING



WITHOUT FOOTING

DRAINAGE DETAILS
1/2" = 1'-0"

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



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NO.	REVISIONS	BY	DATE	APP'D
B	95% DESIGN SUBMITTAL	NAV	9/1/20	CV
A	65% PRELIMINARY DESIGN SUBMITTAL	SOO	2/25/13	CV



COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT			
DESIGNED	DATE	WORK ORDER	
NAV	9/1/2020		
DRAWN	DATE	LEVEL BOOK	
JCL	9/1/2020		
CHECKED	DATE	TRANSIT BOOK	
CV	9/1/2020		

SUBMITTED BY:
MAHVASH M. HARMS
Structural Engineer

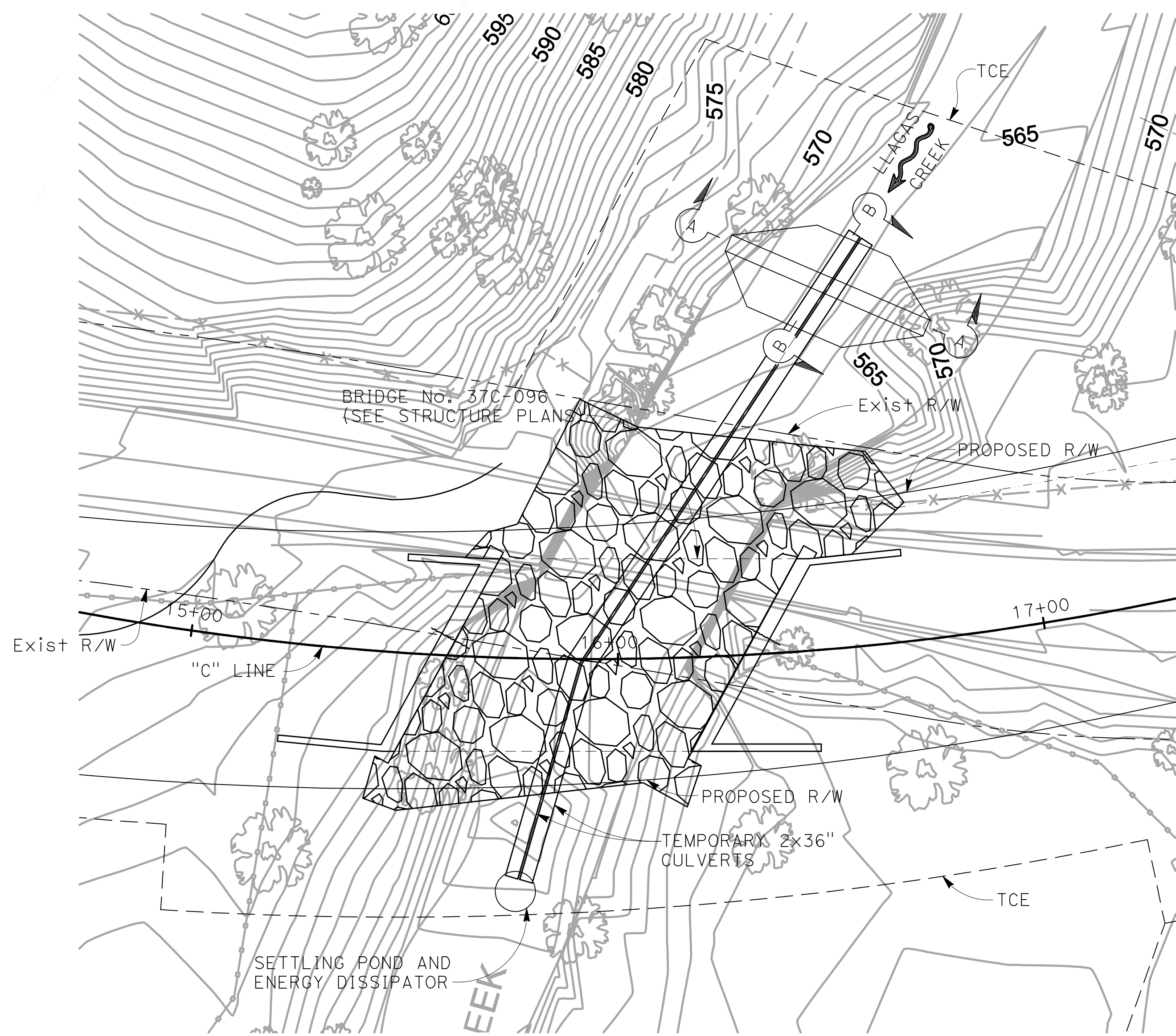


APPROVAL:

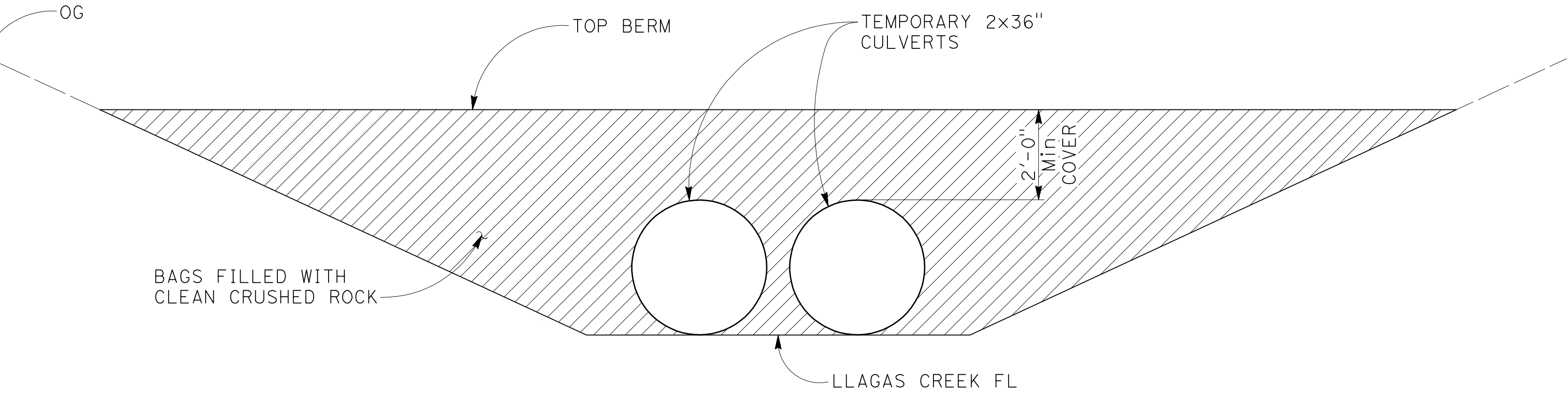
LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT) BRIDGE No. 37C0602		
STRUCTURE APPROACH DRAINAGE DETAILS		
PROJECT NO.	CONTRACT NO.	DATE
BRL0-5937(106)		9/1/20

DRAWING NO.
S-17
SHT NO.
36 OF 38

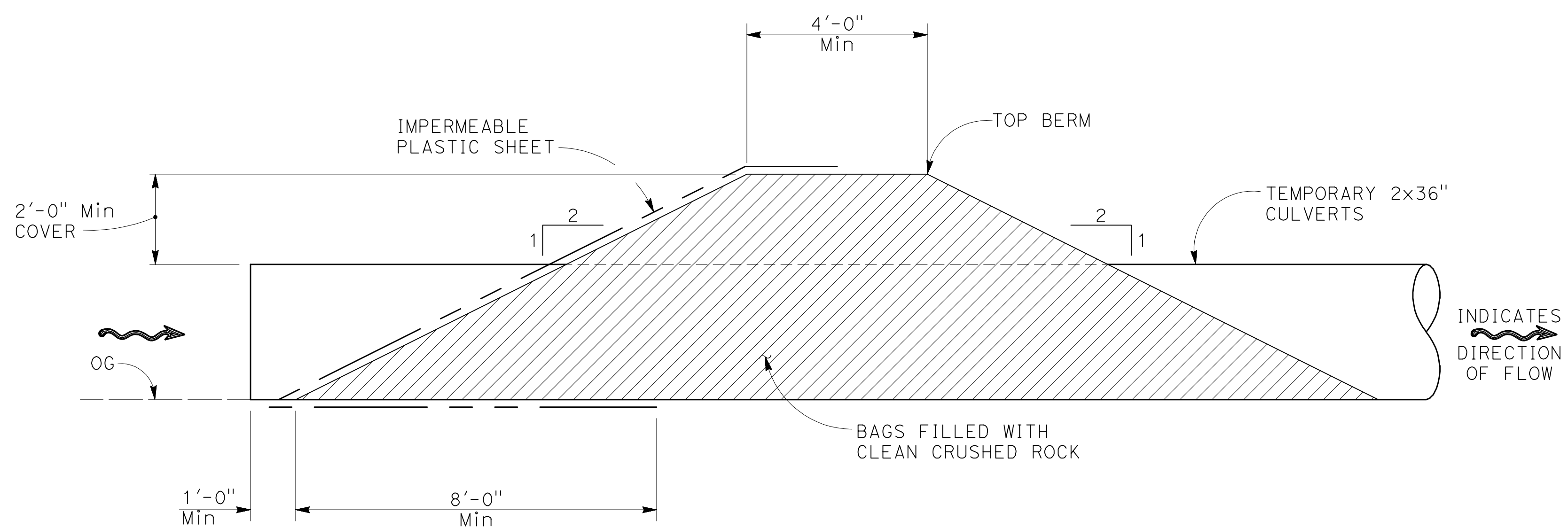
2008149517



PLAN
1" = 20'



SECTION A-A
NO SCALE



SECTION B-B
NO SCALE

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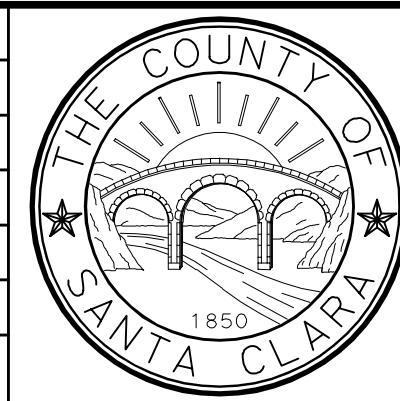
865 The Alameda
San Jose, California 95126
408-296-5515



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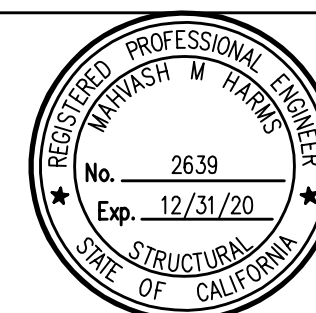
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COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT

NAV 9/1/2020
DESIGNED JCL 9/1/2020
DRAWN CV 9/1/2020
CHECKED

SUBMITTED:
MAHVASH M. HARMS
Structural Engineer



APPROVAL:

**LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT)
BRIDGE No. 37C0602**

TEMPORARY CREEK DIVERSION

PROJECT NO. **BRLO-5937(106)**

CONTRACT NO.

DATE. **9/1/20**

DRAWING NO.
S-18

SHT NO.
37 OF 38

2008149.18 (2008149.18)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
4	SCL	X			

09-01-20
 GEOTECHNICAL PROFESSIONAL DATE
 PLANS APPROVAL DATE
 The County of Santa Clara or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

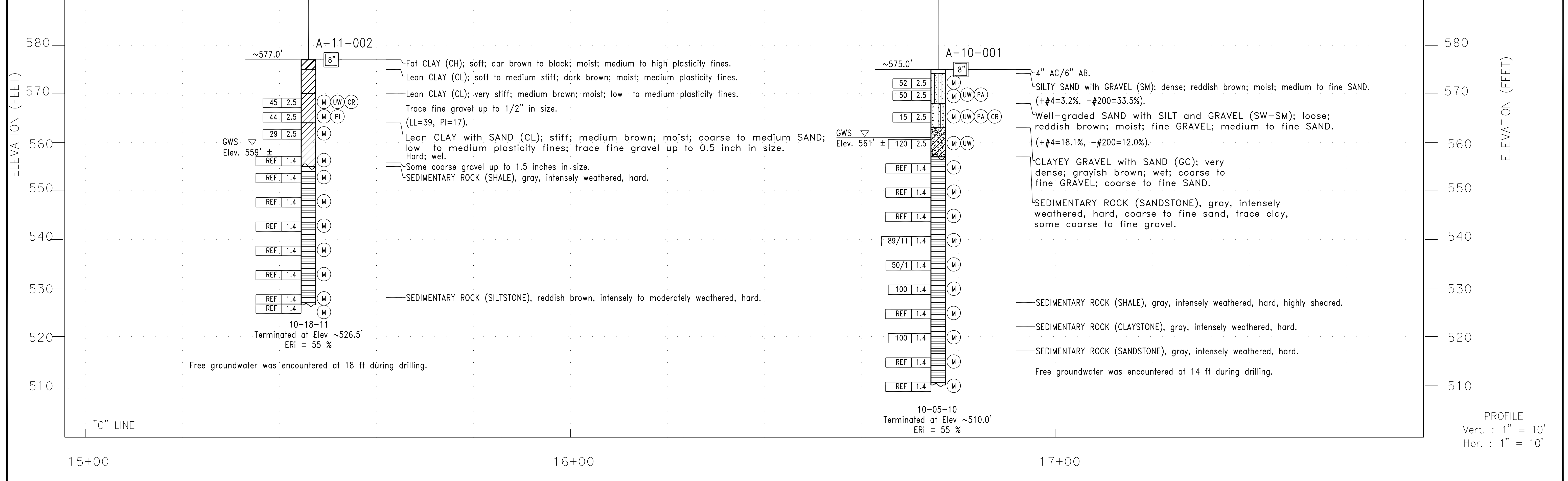
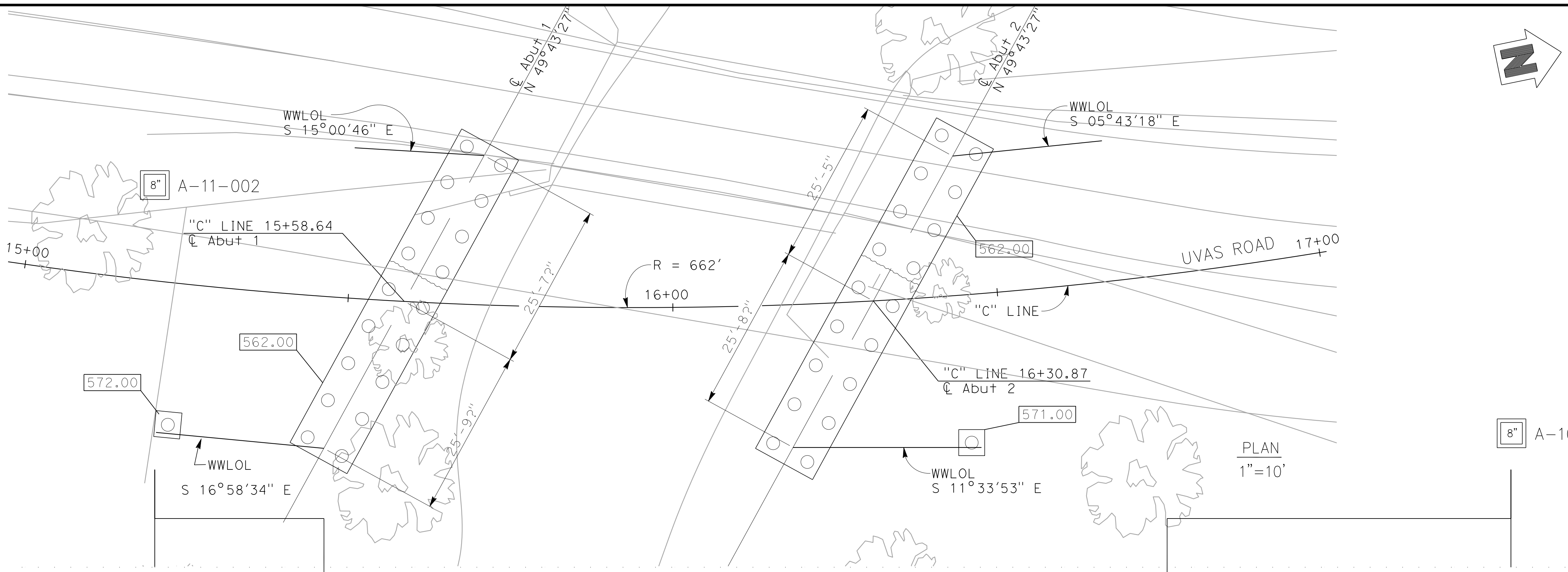
GARY PARIKH
 No. G.E. 666
 Exp. 12/31/21
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA

BIGGS CARDOSA ASSOCIATES, INC.
 865 THE ALAMEDA
 SAN JOSE, CA 95126
PARIKH CONSULTANTS, INC.
 1497 N MILPITAS BLVD.
 MILPITAS, CA 95035

Notes:
 Standard Penetration Test Sampler: I.D. = 1.4"; O.D. = 2" Modified California Sampler: I.D. = 2.5"; O.D. = 3" Hammer Assembly: A 140 lb hammer with a 30" drop (Automatic Hammer)

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock, Logging, Classification, and Presentation Manual (2010)

Basemap is prepared by BCA, 2/11/13



COUNTY OF SANTA CLARA ROADS AND AIRPORTS DEPARTMENT			LLAGAS CREEK BRIDGE ON UVAS ROAD (REPLACEMENT) BRIDGE No. 37C-0096			DRAWING NO. S-19		
LOG OF TEST BORINGS			PROJECT NO. BRLO-5937(106)			CONTRACT NO.		
DATE: OCT 5, 2010 & OCT 18, 2011			DATE: 09/01/20			SHEET NO. 38 OF 38		
DRAWN BY: AMIT BAKANE			CHECKED BY: PETER WEI			AMIT BAKANE FIELD INVESTIGATION BY:		
B 95% Submittal 09/01/20			A 65% Preliminary Design Submittal 02/25/13			NO. REVISIONS BY DATE APP'D		



200814933