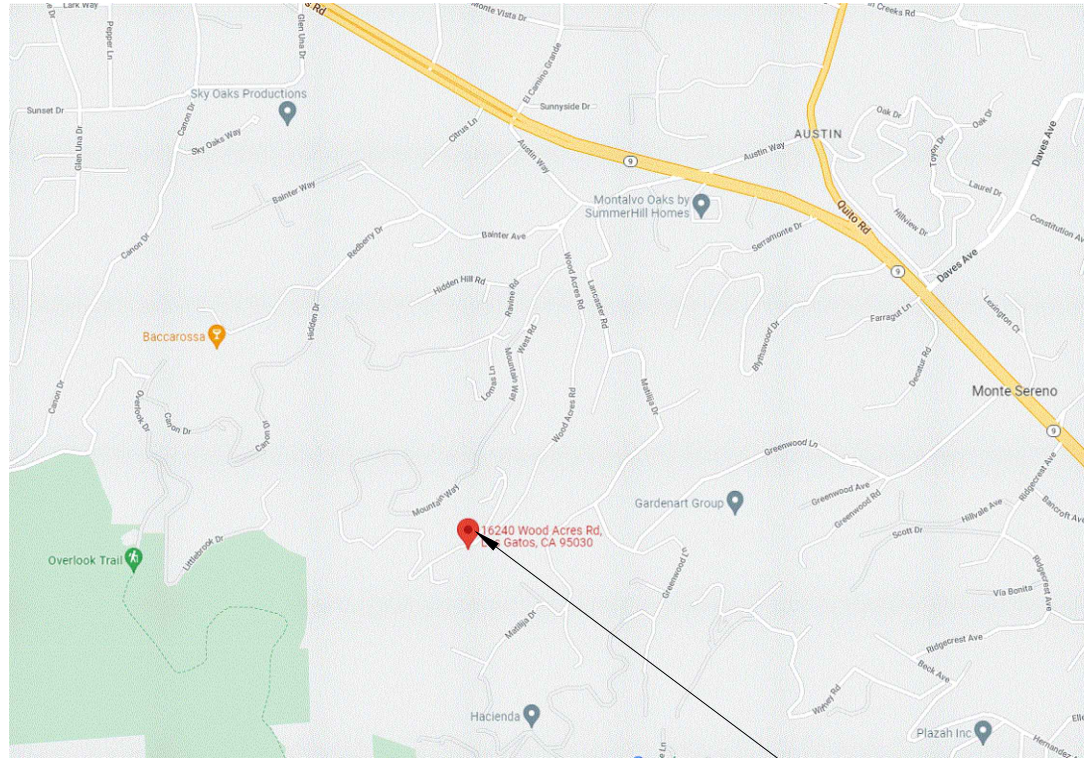


RESIDENTIAL BRIDGE IN LOS GATOS

16240 WOOD ACRES RD, LOS GATOS, CA 95030



LOCATION MAP
NOT TO SCALE

PROJECT SITE (PM 15.80)

STANDARD PLANS DATED 2018

PLAN No	PLAN TITLE
XS16-116	CALIFORNIA ST-75 CULVERT RAIL (MOD)

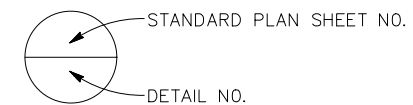
ABBREVIATIONS


AB ORIGINAL GRADE	MGS MIDWEST GUARDRAIL SYSTEM
AC ASPHALT CONCRETE	OG ORIGINAL GRADE
BC BEGINNING OF CURVE	PC POINT OF CURVE (BC)
BP BEGIN OF PROJECT	PCC POINT OF COMPOUND CURVE/ PORTLAND CEMENT CONCRETE
BVCE BEGIN OF VERTICAL CURVATURE ELEVATION	PG PROFILE GRADE
BVCS BEGIN OF VERTICAL CURVE STATION	PT POINT OF TANGENT
CIDH CAST-IN-DRILLED-HOLE PILE	PR PROPOSED
CL CENTER LINE	PVI POINT OF VERTICAL INTERSECTION
CMP CORRUGATED METAL PIPE	RSP ROCK SLOPE PROTECTION/ REVISED STANDARD PLAN
EP EDGE OF PAVEMENT/END OF PROJECT	RT RIGHT
ELEV ELEVATION	ROW RIGHT-OF-WAY
ETW EDGE OF TRAVEL WAY EXISTING	RW RETAINING WALL
EVCE EDGE OF TRAVEL WAY EXISTING	LOL LAYOUT LINE
EVCS END OF VERTICAL CURVATURE ELEVATION	S SLOPE
FG FINISH GRADE	STA STATION
FL FLOW LINE	TYP TYPICAL
HMA HOT MIXED ASPHALT	WW WINGWALL
LT LEFT	WWLOL WINGWALL LAYOUT LINE
LVC LENGTH OF VERTICAL CURVE	
MBGR METAL BEAM GUARDRAIL	

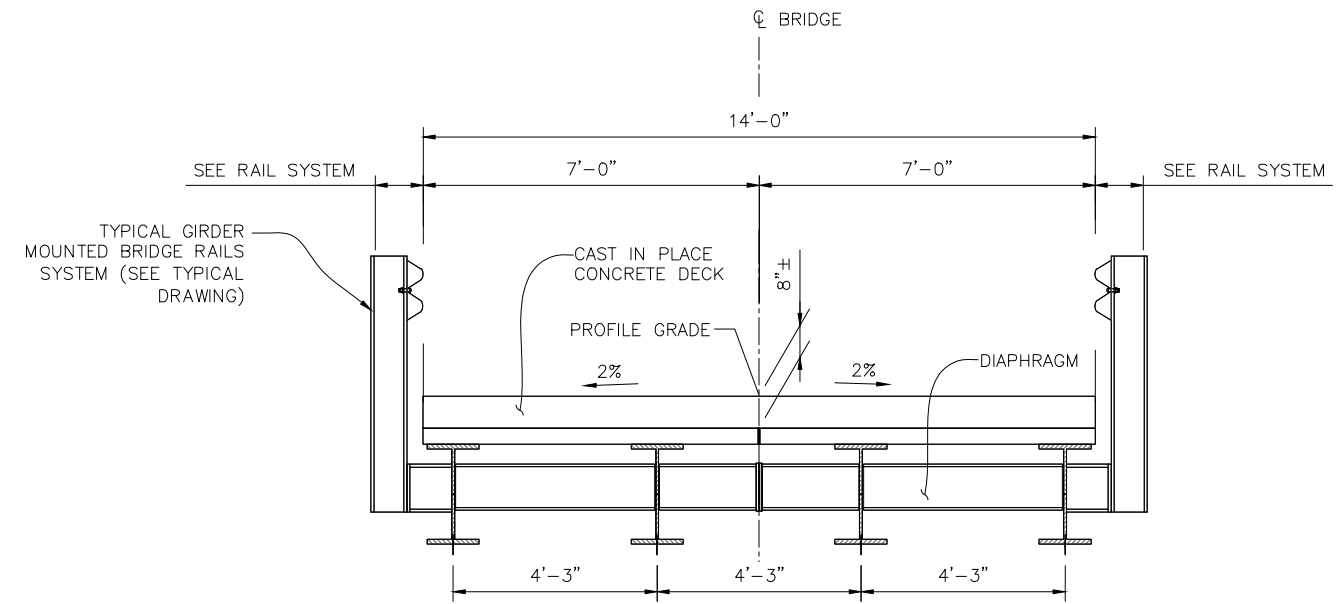
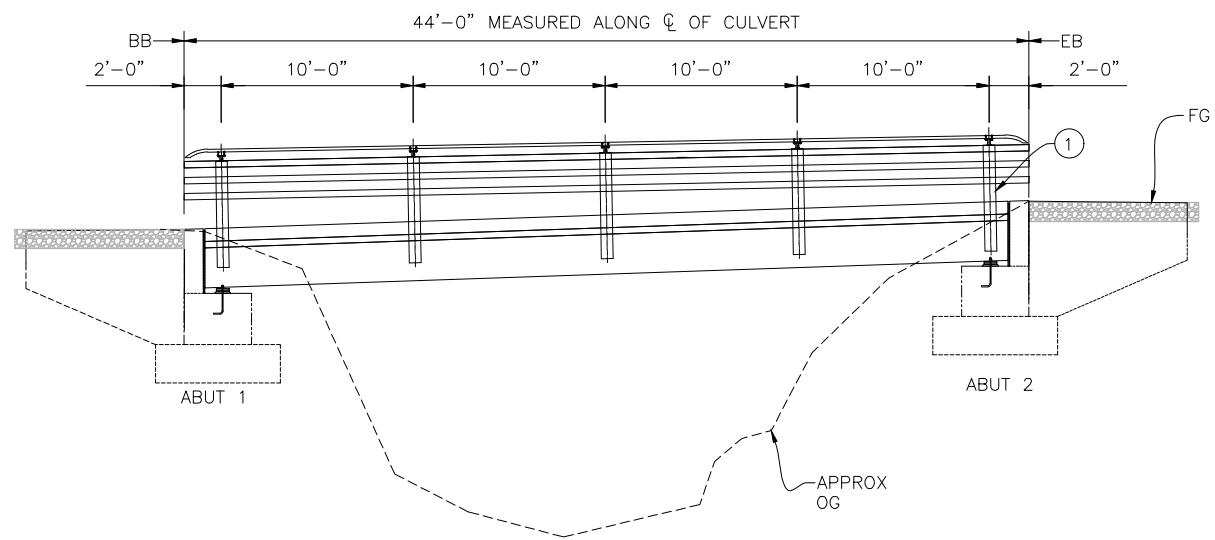
SHEET INDEX

SHEET	TITLE
SHEET 1	TITLE SHEET
SHEET 2	LAYOUT PLAN
SHEET 3	FOUNDATION PLAN
SHEET 4	ABUTMENT 1 LAYOUT AND SECTION
SHEET 5	ABUTMENT 2 LAYOUT AND SECTION
SHEET 6	ABUTMENT 1 DETAILS
SHEET 7	ABUTMENT 2 DETAILS

LEGEND



	140 DIAMOND CREEK PLACE ROSEVILLE, CA 95747 (916) 788-0100 (916) 788-0159 (FAX)	SHEET TITLE INDEX TO PLANS	
	PROJECT TITLE WOOD ACRES RD BRIDGE		1 7
DATE: 11/02/2022 SCALE: AS SHOWN FILE NAME: SURVEY NOTE:	DESIGN: QJ DRAWN: MS CHKD: MK	SHEET OF	



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

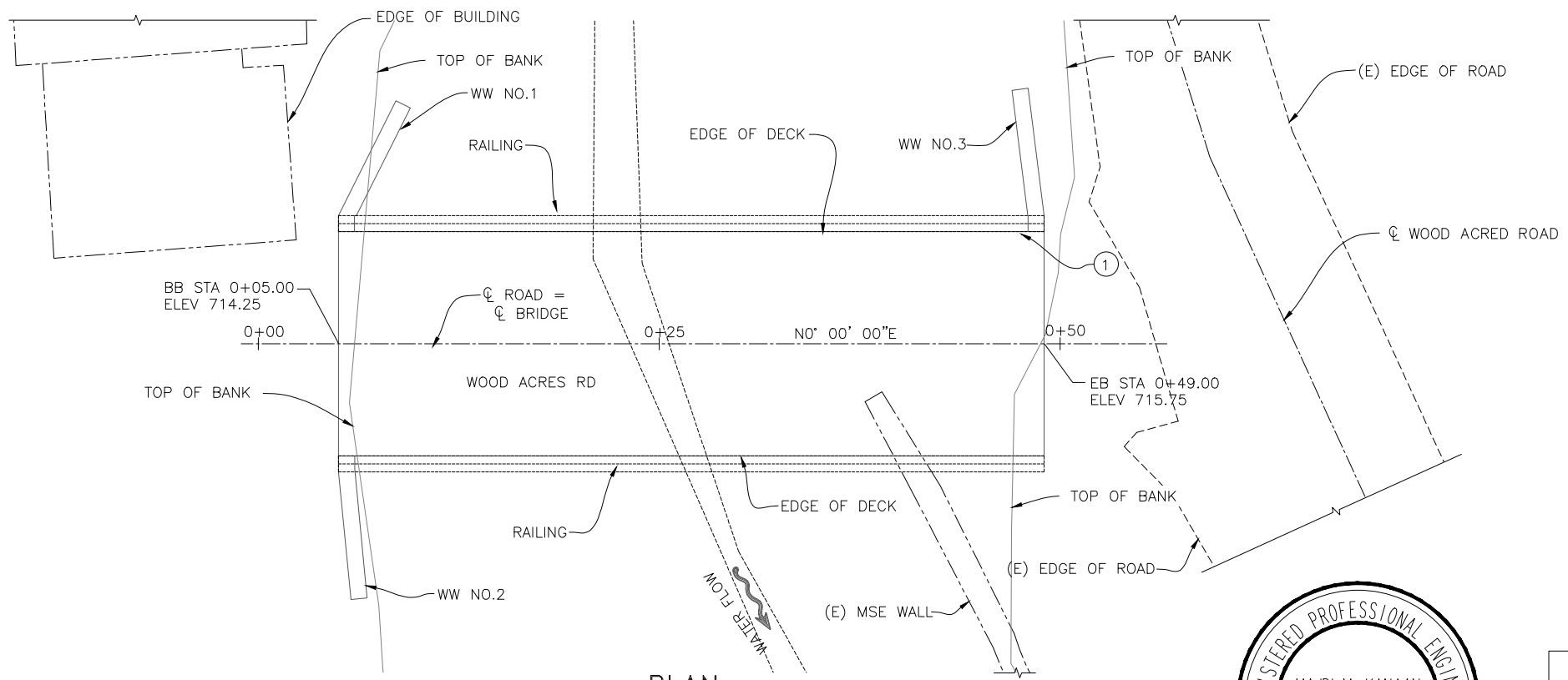
DETUM ELEVATION 695.00 0+00 0+25 0+50

NOTES:

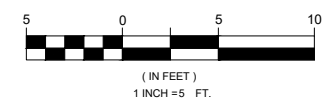
1. CONTRACTOR TO VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. THE DIFFERENCE IN LEVEL OF BACKFILL ALONG THE INTERIOR AND EXTERIOR FACES OF THE ABUT DIAPHRAGM SHALL NOT EXCEED 4'-0" AT ANY TIME DURING CONSTRUCTION.
3. CONTRACTOR TO PROVIDE 3/4" CHAMFER ALONG EDGES OF TOP ABUT (TYP.).
4. PROTECT TREES TO REMAIN, TRIM OR REMOVE ONLY AS DIRECTED BY ENGINEER.
5. COUNTY ENGINEER WILL MARK TREES THAT WILL BE TRIMMED OR REMOVED IN THE FIELD.
6. FOR "FOUNDATION PLAN", SEE "FOUNDATION PLAN" SHEET.
7. GEOCOMPOSITE DRAIN SHALL BE ADVANTAGE DRAIN OR APPROVED EQUAL, SEE CALTRANS "STANDARD SPECIFICATIONS 2018", 68-7.
8. FOR "STRUCTURE EXCAVATION AND BACKFILL", SEE "FOUNDATION PLAN" SHEET.

LEGEND:

- INDICATES DIRECTION OF TRAFFIC
- INDICATE CENTERLINE
- INDICATE EXISTING
- ~~~ INDICATE STREAM FLOW DIRECTION

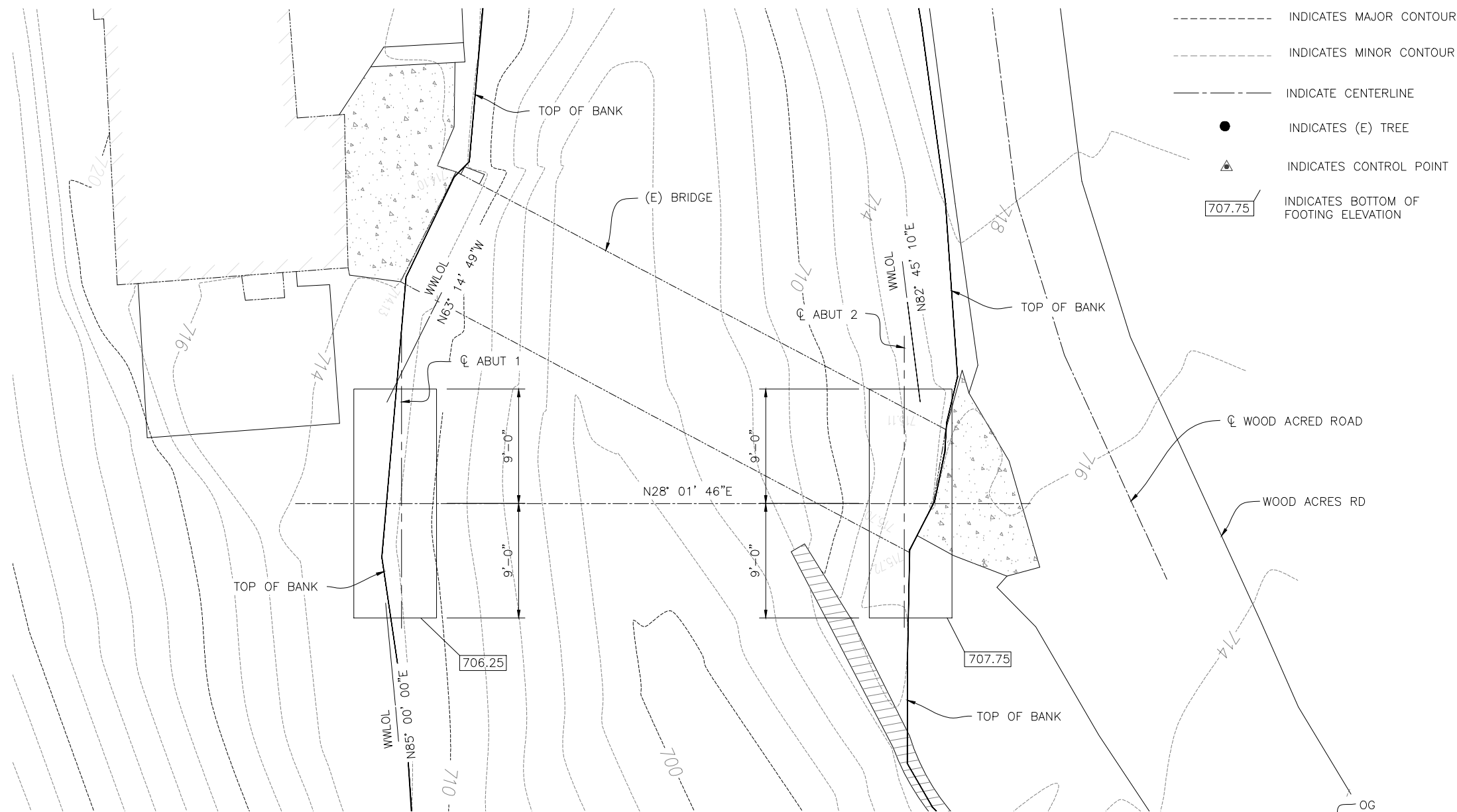


PLAN
SCALE: 1" = 5'-0"



	140 DIAMOND CREEK PLACE ROSEVILLE, CA 95747 (916) 788-0100 (916) 788-0159 (FAX)		SHEET TITLE GENERAL PLAN	
	DATE: 11/02/2022 DESIGN: QJ SCALE: AS SHOWN DRAWN: MS FILE NAME: CHKD: MK SURVEY NOTE:		PROJECT TITLE WOOD ACRES RD BRIDGE	
			2	7
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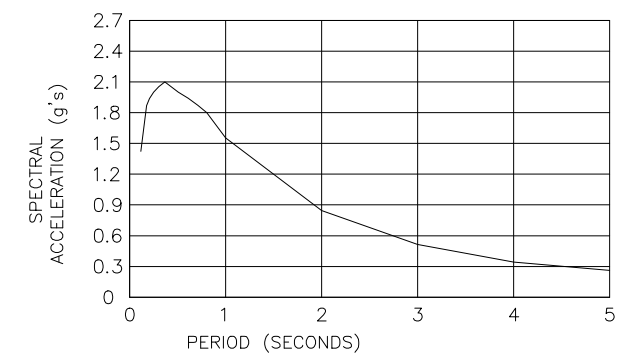


LEGEND:

- INDICATES MAJOR CONTOUR
- INDICATES MINOR CONTOUR
- INDICATE CENTERLINE
- INDICATES (E) TREE
- ▲ INDICATES CONTROL POINT
- 707.75 INDICATES BOTTOM OF FOOTING ELEVATION

GENERAL NOTES

- DESIGN: AASHTO LRFD DESIGN SPECIFICATIONS, 8TH EDITION WITH CALTRANS AMENDMENTS (AASHTO-CA BDS-8) DATED APRIL 2019
- DEAD LOAD: INCLUDES 35PSF FOR FUTURE WEARING SURFACE
- LIVE LOAD: HL-93, CA P15 TRUCK, AND 50,000 LB EMERGENCY VEHICLE
- SEISMIC DESIGN: CALTRANS SEISMIC DESIGN CRITERIA (SDC) VERSION 2.0 (APRIL 2019)
- SOIL PROFILE TYPE D
- PEAK GROUND ACCELERATION 0.85g
- MODIFIED ARS CURVE FIG. B.4 WITH INCREASE IN SPECTRAL ACCELERATION



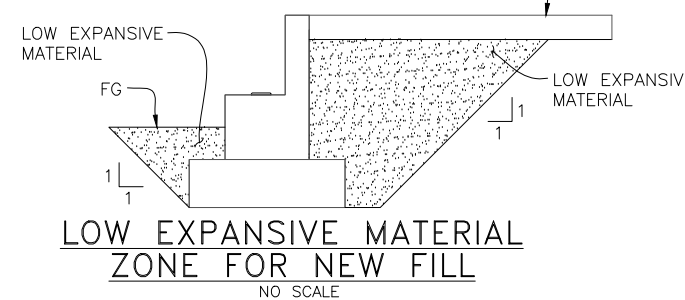
REINFORCED CONCRETE: $f_y = 60$ KSI, $f'_c = 4,0$ KSI, UNLESS OTHER SPECIFIED, $n = 9.0$

THE STRUCTURAL FILL SHOULD BE A WELL-GRADED GRANULAR MATERIAL (LOW PLASTICITY GRANULAR SOIL (HAVING PASSING #200 LESS THAN 15%) AND LOW PLASTICITY FINES (PI LESS THAN 10)). CALTRANS AB CLASS II CAN ALSO BE USED.

TABLE 13- CALTRANS AB CLASS II RECOMMENDED PARAMETERS

MATERIAL	γ_d (pcf)	γ_{sat} (pcf)	c (ksf)	ϕ (degrees)
CALTRANS AB CLASS II (92% COMPACTED)	125	130	01	38

FOUNDATION PLAN
SCALE: 1" = 5'-0"



LOW EXPANSIVE MATERIAL ZONE FOR NEW FILL
NO SCALE

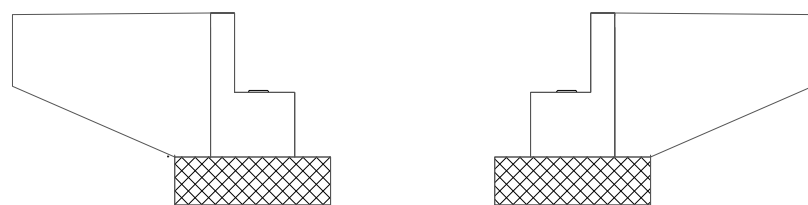
- ▨ STRUCTURE EXCAVATION
- ▨ STRUCTURE BACKFILL

NOTES

1. CONTRACTOR TO VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. FOR UNDERGROUND UTILITIES PROTECT IN PLACE.
3. TOPOGRAPHIC SURVEY AND INFORMATION PROVIDED BY STERLING CONSTRUCTIONS.
4. FOR UNDER GROUND UTILITIES PROTECT IN PLACE.
5. BEARING PRESSURE = 0.85 TSF. DESIGN BEARING CAPACITY = 0.75 TSF.

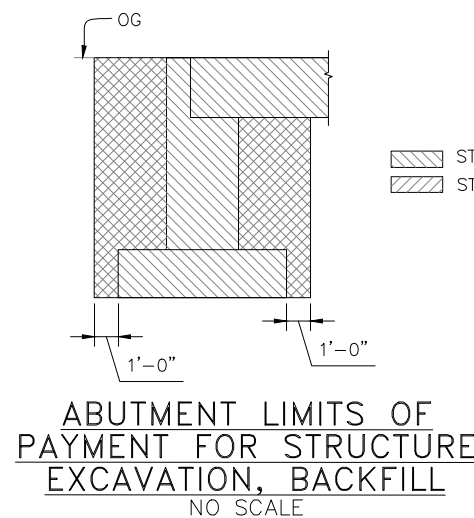
NOTES

1. CONTRACTOR TO VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. FOR UNDERGROUND UTILITIES PROTECT IN PLACE.

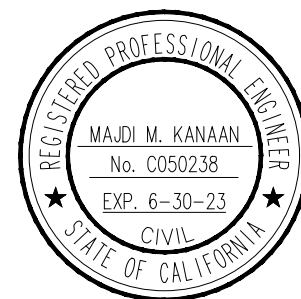


CONCRETE STRENGTH & TYPE LIMITS
NO SCALE

- ▭ STRUCTURAL CONCRETE, BRIDGE (4000 PSI @ 28 DAYS)
- ▨ STRUCTURAL CONCRETE, BRIDGE FOOTING (4000 PSI)



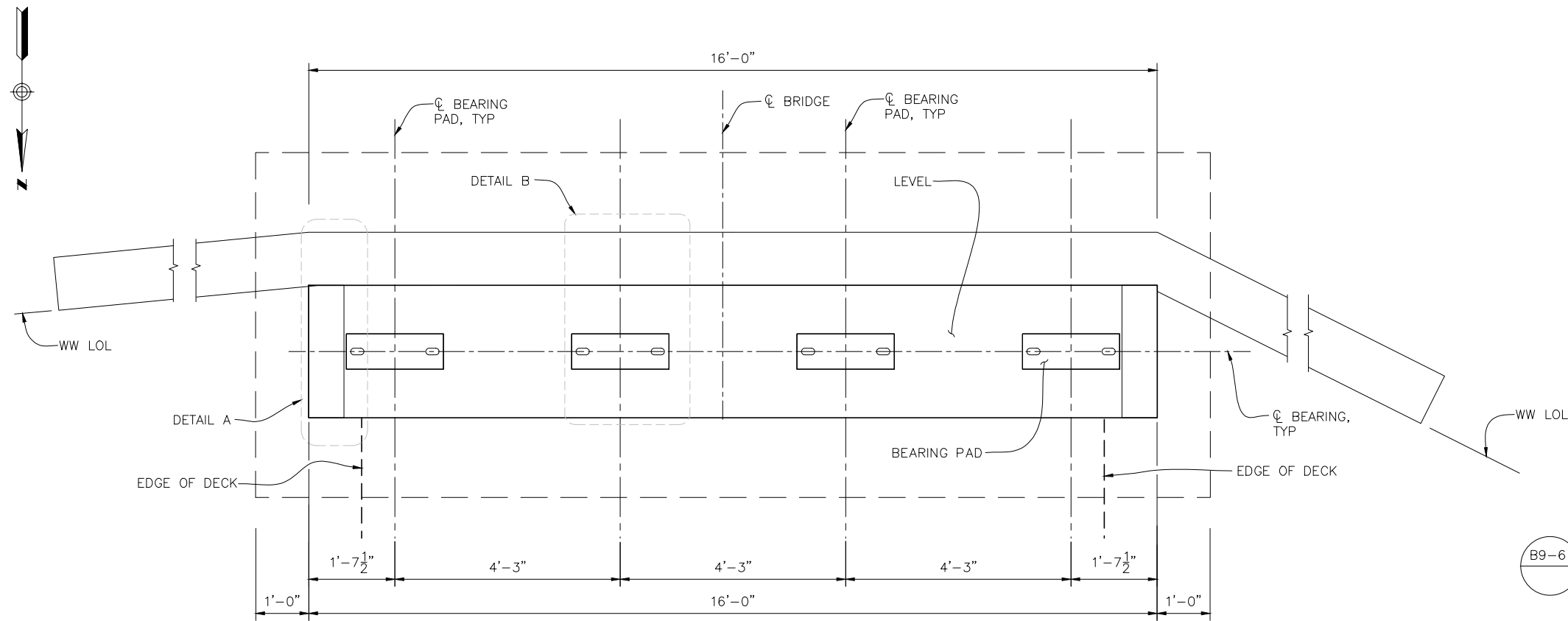
ABUTMENT LIMITS OF PAYMENT FOR STRUCTURE EXCAVATION, BACKFILL
NO SCALE



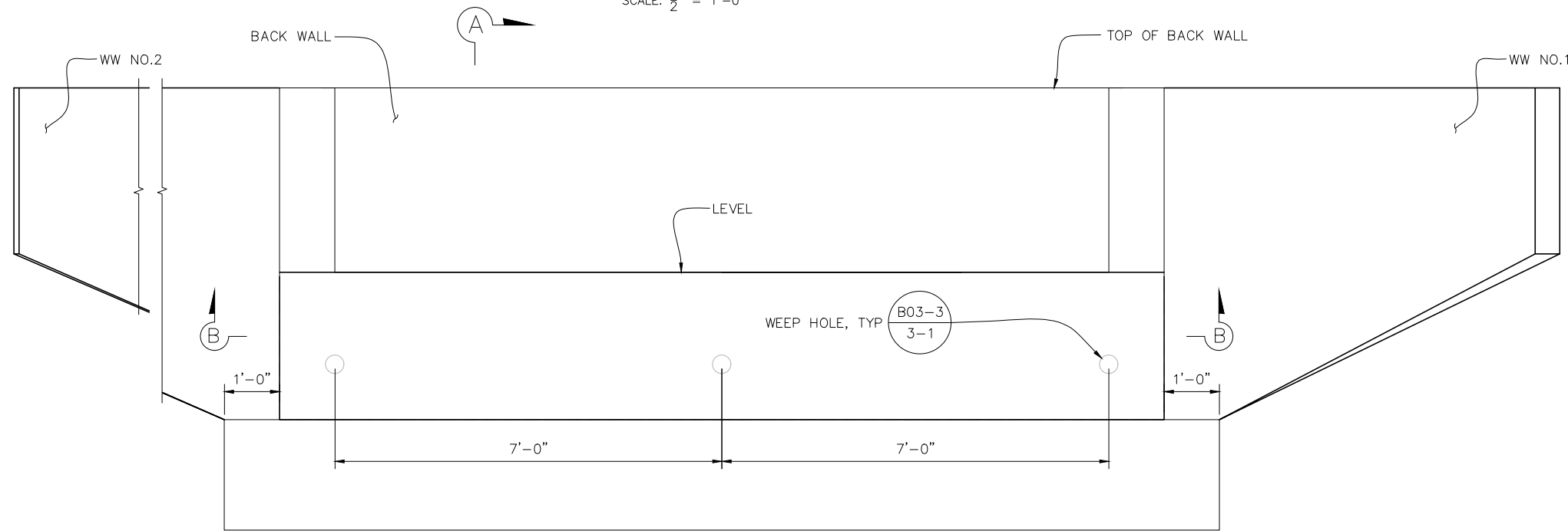
140 DIAMOND CREEK PLACE
ROSEVILLE, CA 95747
(916) 788-0100
(916) 788-0159 (FAX)

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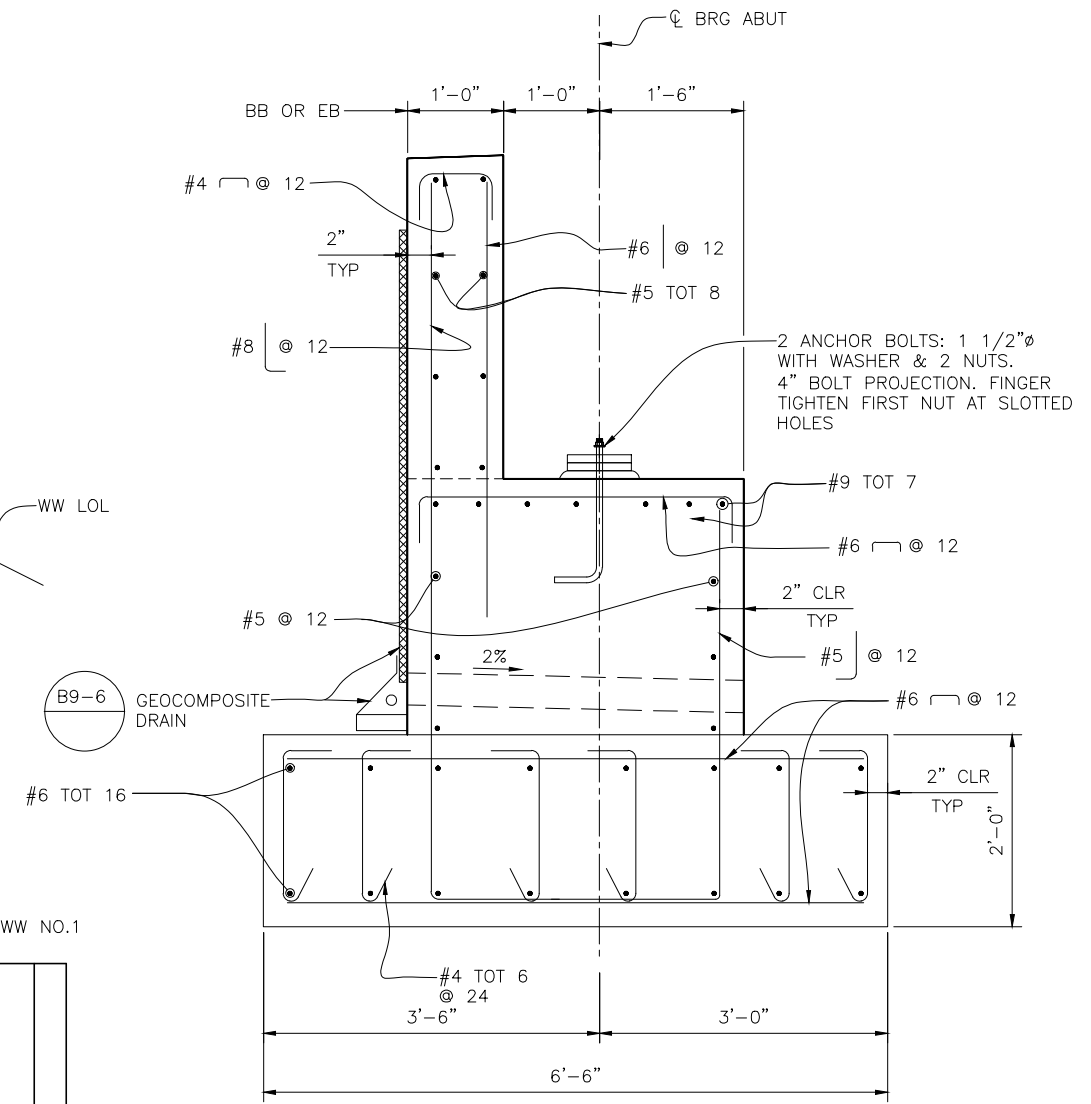
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PROJECT TITLE WOOD ACRES RD BRIDGE	
3	7
SHEET OF	



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



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



SECTION A-A
SCALE: 1" = 1'-0"

NOTES:

- CONTRACTOR TO VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
- FOR SLAB REINFORCEMENT DETAILS SEE "SLAB REINFORCEMENT" SHEET.
- THE DIFFERENCE IN LEVEL OF BACKFILL ALONG THE INTERIOR AND EXTERIOR FACES OF THE ABUT DIAPHRAGM SHALL NOT EXCEED 4'-0" AT ANY TIME DURING CONSTRUCTION.
- CONTRACTOR TO PROVIDE 3/4" CHAMFER ALONG EDGES OF TOP ABUT (TYP.).
- COUNTY ENGINEER WILL MARK TREES THAT WILL BE TRIMMED OR REMOVED IN THE FIELD.
- FOR "STRUCTURE EXCAVATION AND BACKFILL", SEE "PILE LAYOUT AND DETAILS" SHEET.
- SEE "SECTION B-B", ON "ABUTMENT 1 DETAILS" SHEET.
- SEE "DETAIL A", ON "ABUTMENT 1 DETAILS" SHEET.
- SEE "DETAIL B", ON "ABUTMENT 1 DETAILS" SHEET.



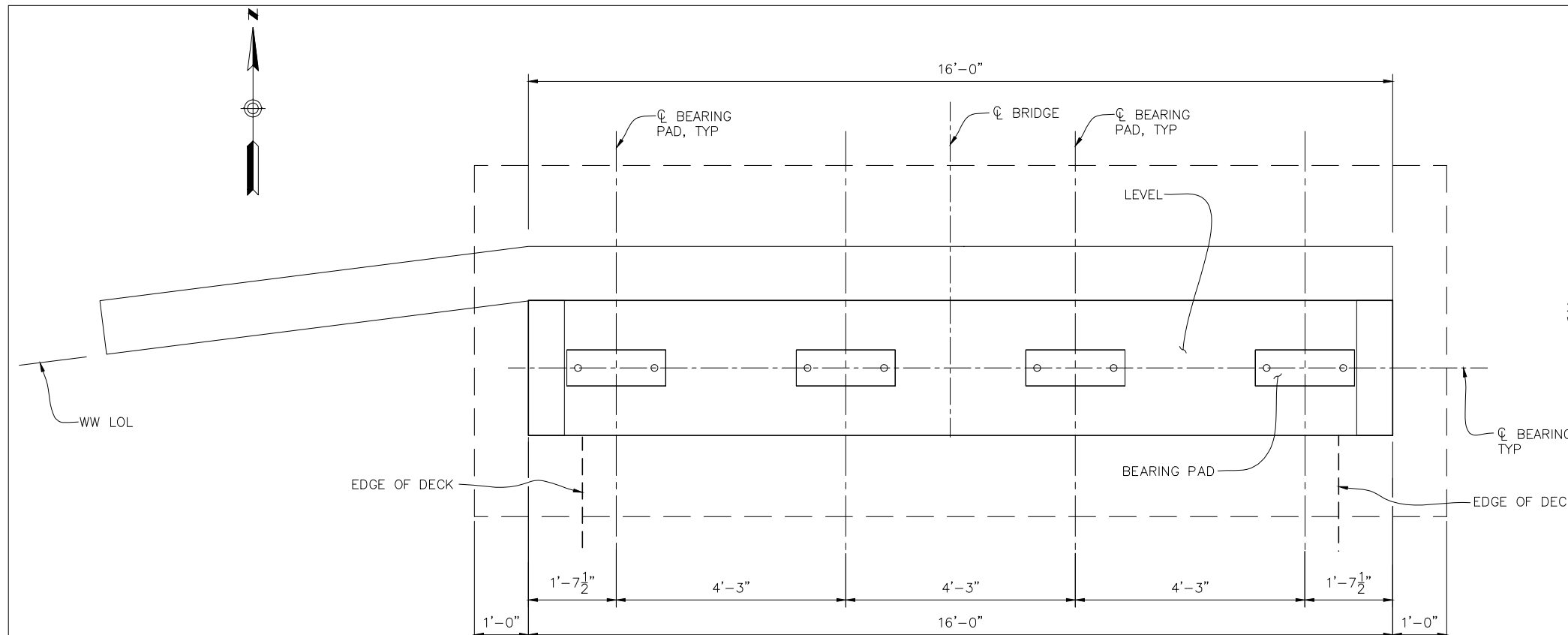
140 DIAMOND CREEK PLACE
ROSEVILLE, CA 95747
(916) 788-0100
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SHEET TITLE
ABUTMENT 1 LAYOUT AND SECTION
PROJECT TITLE
WOOD ACRES RD BRIDGE

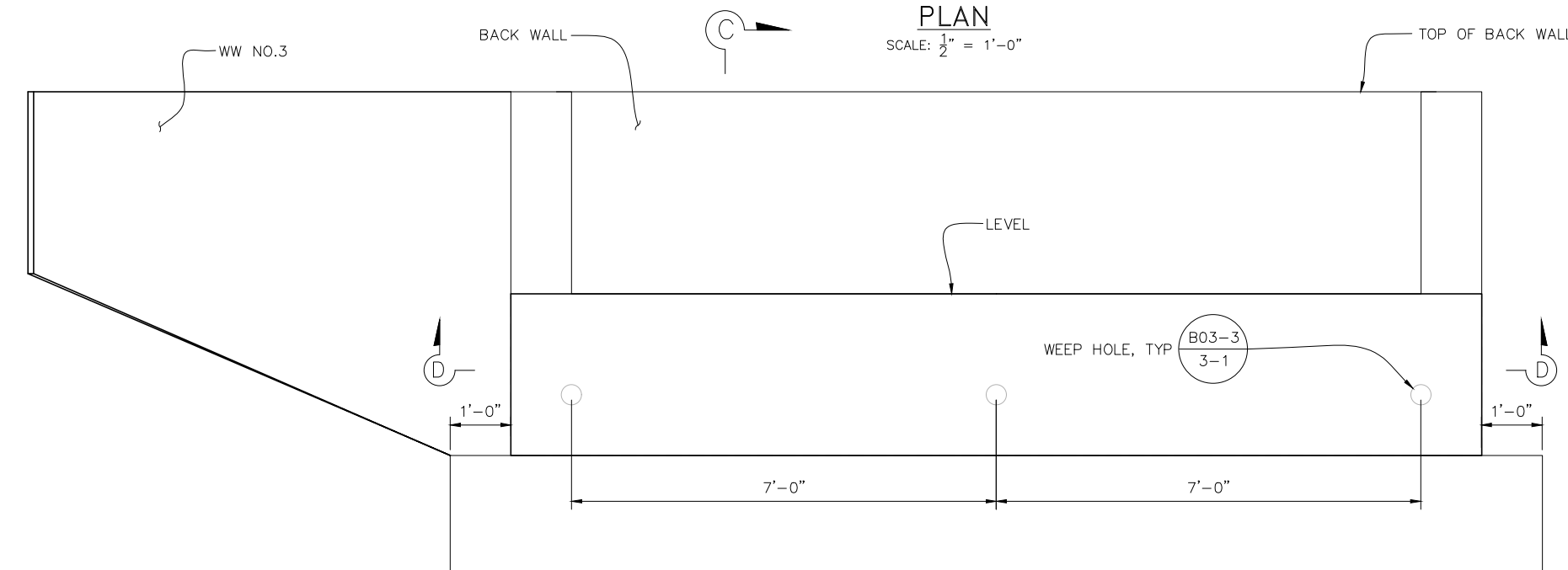
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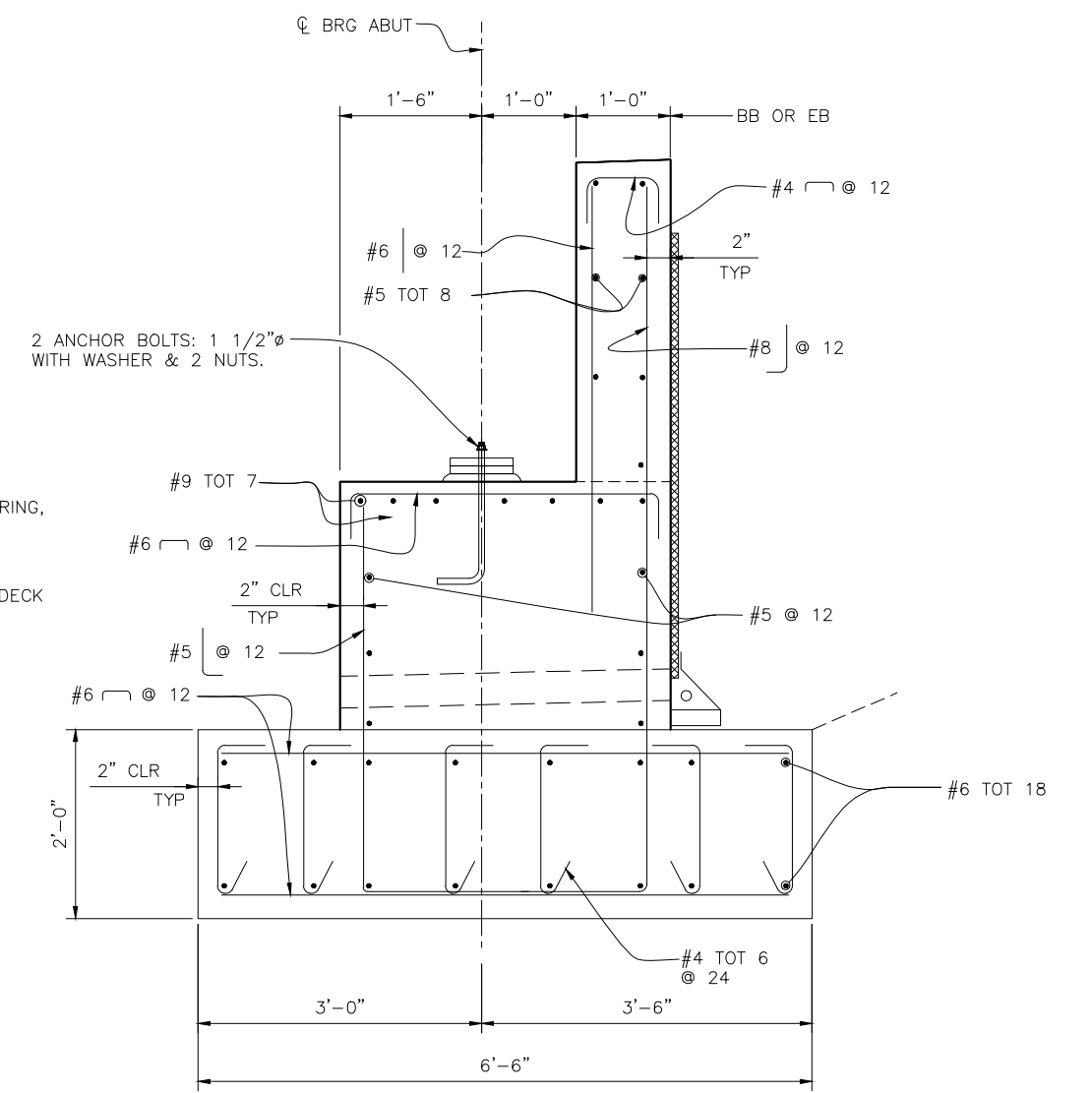
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PLAN
SCALE: 1/2" = 1'-0"



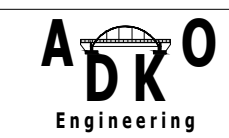
ELEVATION
SCALE: 1/2" = 1'-0"



SECTION C-C
SCALE: 1" = 1'-0"

NOTES:

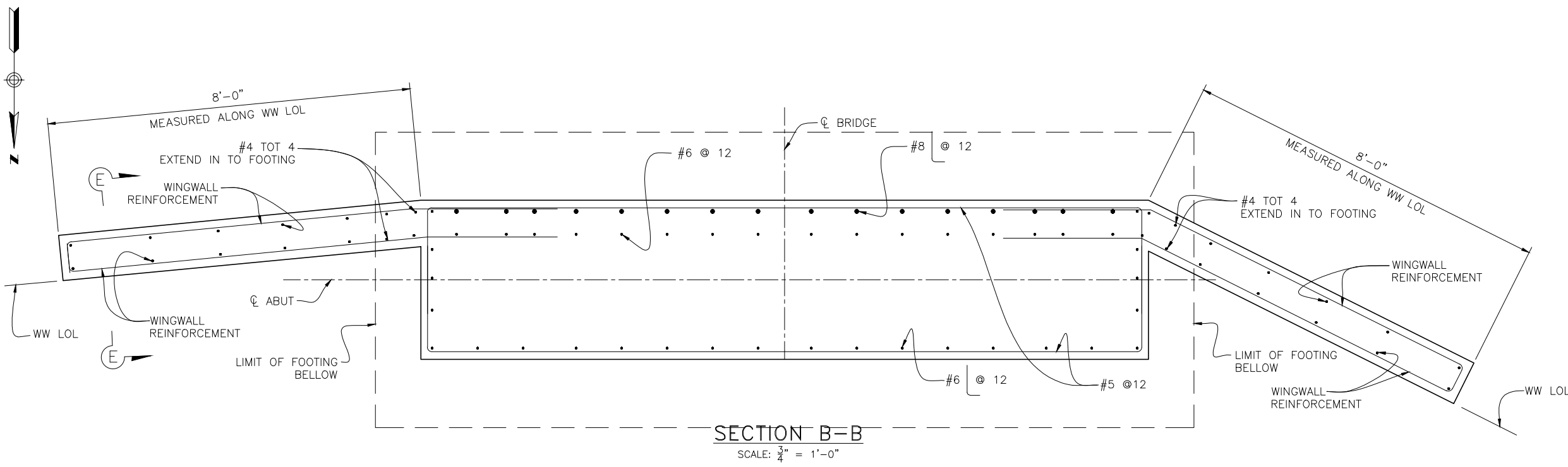
1. CONTRACTOR TO VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
2. FOR SLAB REINFORCEMENT DETAILS SEE "SLAB REINFORCEMENT" SHEET.
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4. CONTRACTOR TO PROVIDE 3/4" CHAMFER ALONG EDGES OF TOP ABUT (TYP.).
5. COUNTY ENGINEER WILL MARK TREES THAT WILL BE TRIMMED OR REMOVED IN THE FIELD.
6. FOR "STRUCTURE EXCAVATION AND BACKFILL", SEE "PILE LAYOUT AND DETAILS" SHEET.
7. SEE "SECTION D-D", ON "ABUTMENT 2 DETAILS" SHEET.



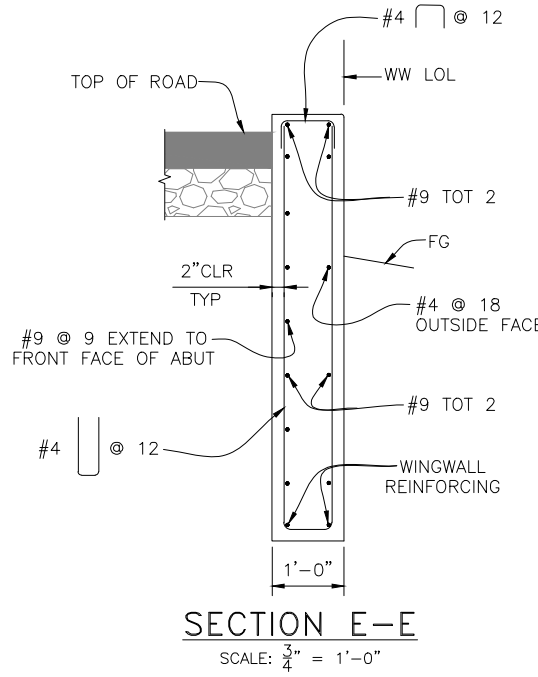
140 DIAMOND CREEK PLACE
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(916) 788-0100
(916) 788-0159 (FAX)

DATE: 11/02/2022	DESIGN: QJ
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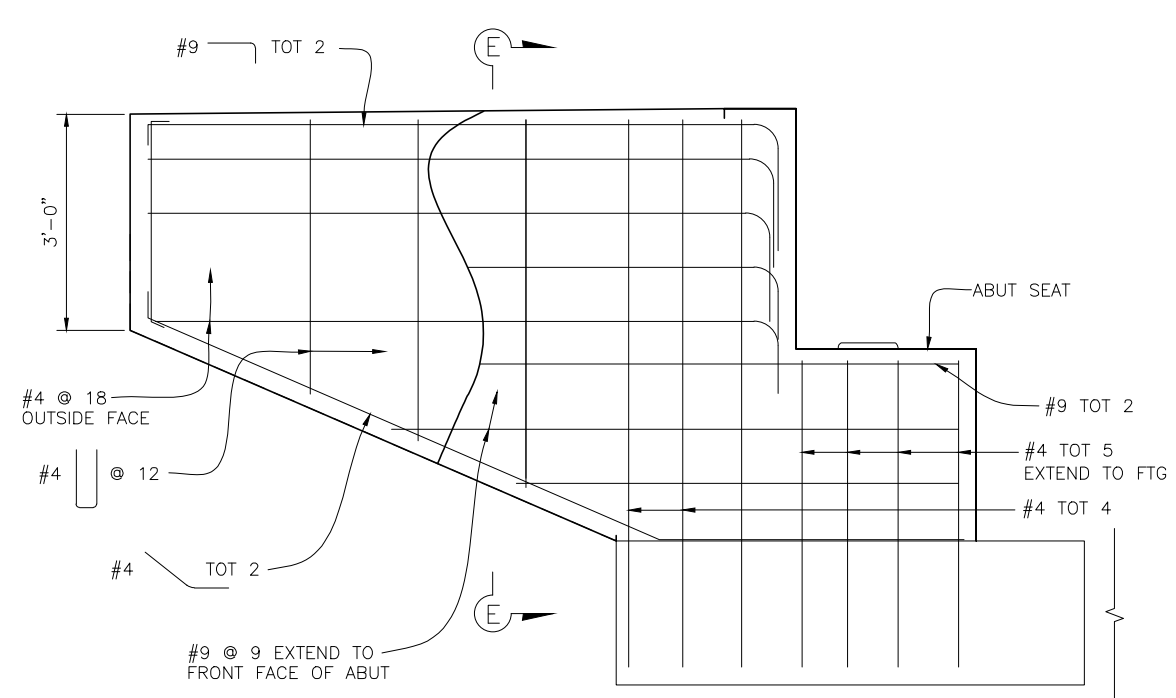
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PROJECT TITLE WOOD ACRES RD BRIDGE	
5	7
SHEET	OF



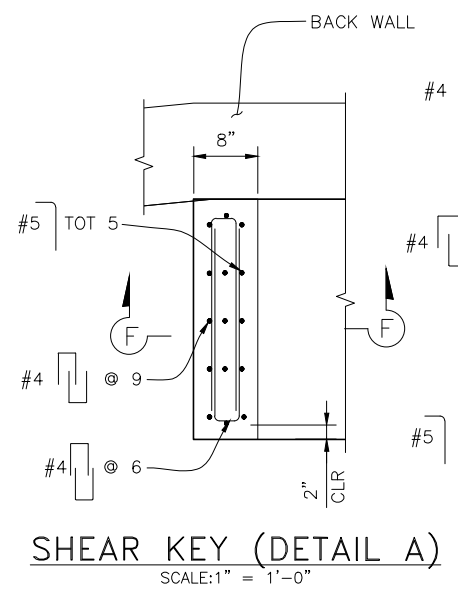
SECTION B-B
SCALE: $\frac{3}{4}$ " = 1'-0"



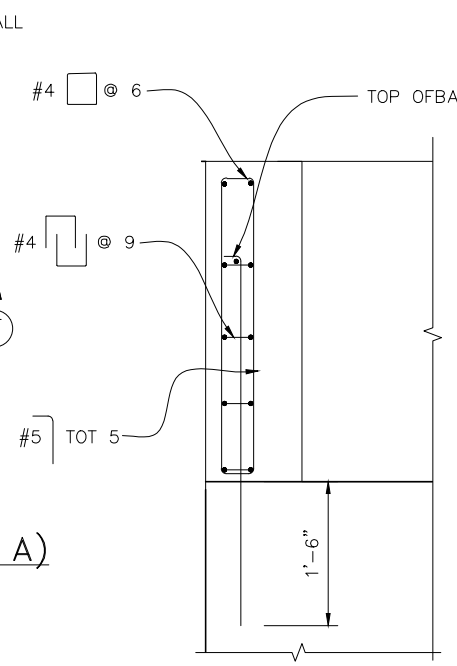
SECTION E-E
SCALE: $\frac{3}{4}$ " = 1'-0"



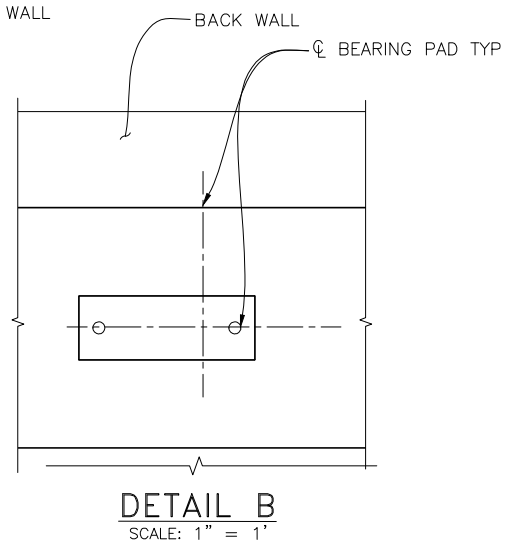
WINGWALL ELEVATION
SCALE: $\frac{3}{4}$ " = 1'-0"



SHEAR KEY (DETAIL A)
SCALE: 1" = 1'-0"



SECTION F-F
SCALE: 1" = 1'-0"



DETAIL B
SCALE: 1" = 1'

- NOTES:**
1. THE DIFFERENCE IN LEVEL OF BACKFILL ALONG THE INTERIOR AND EXTERIOR FACES OF THE ABUTMENT DIAPHRAGM SHALL NOT EXCEED 4'-0" AT ANY TIME DURING CONSTRUCTION.
 2. CONTRACTOR TO VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 3. WHERE SPLICES ARE REQUIRED, SPIRAL REINFORCEMENT SHALL BE LAPPED 80 DIAMETERS MINIMUM. A 135° HOOK THAT IS HOOKED AROUND A LONGITUDINAL BAR SHALL BE USED TO TERMINATE THE ENDS OF THE SPIRAL REINFORCEMENT AT LAPPED SPLICES AND AT TOP AND BOTTOM OF THE PILE.
 4. CONTRACTOR TO PROVIDE $\frac{3}{4}$ " CHAMFER ALONG EDGES OF TOP CONCRETE ABUT AND SLAB (TYP.), UNLESS DETAILED AS OTHERWISE ON THESE PLANS.
 5. FOR LOCATION OF "SECTION B-B", SEE "ABUTMENT 1 LAYOUT AND SECTION" SHEETS.
 6. FOR LOCATIONS OF "DETAIL A", SEE "ABUTMENT 1 LAYOUT" SHEET.
 7. FOR LOCATIONS OF "DETAIL B", SEE "ABUTMENT 1 LAYOUT" SHEET.



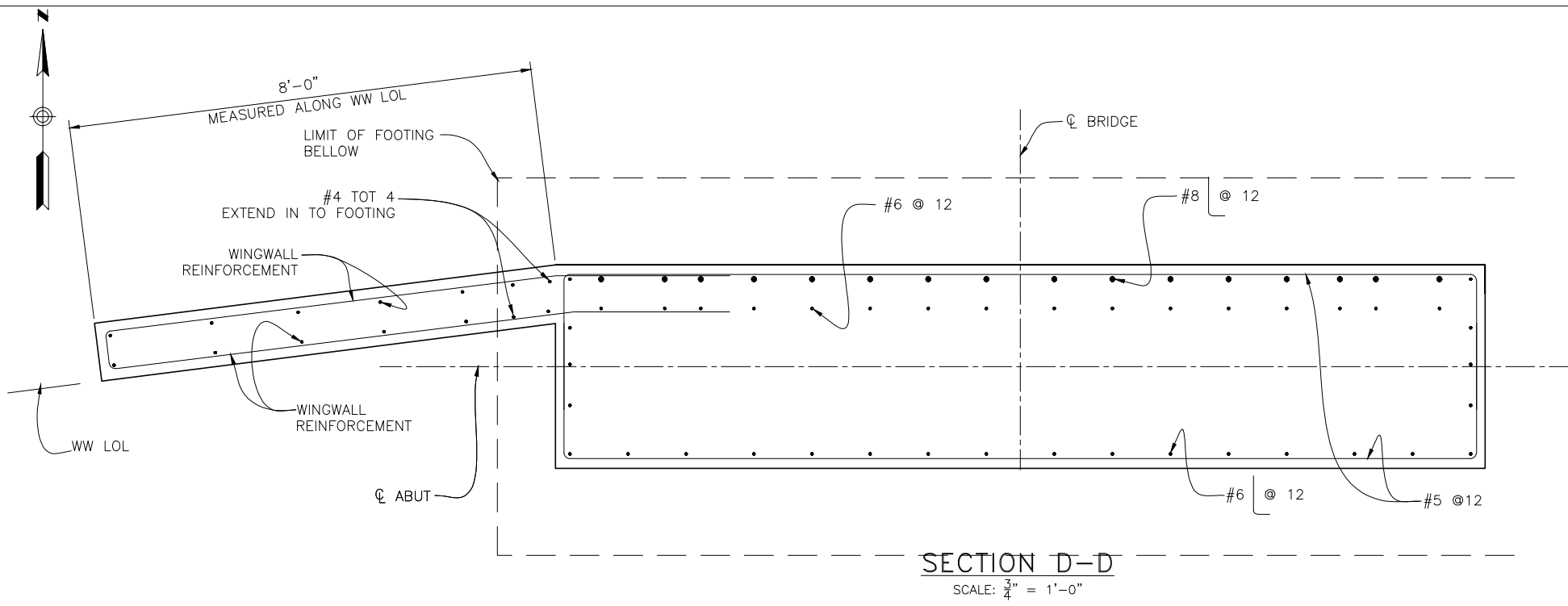
140 DIAMOND CREEK PLACE
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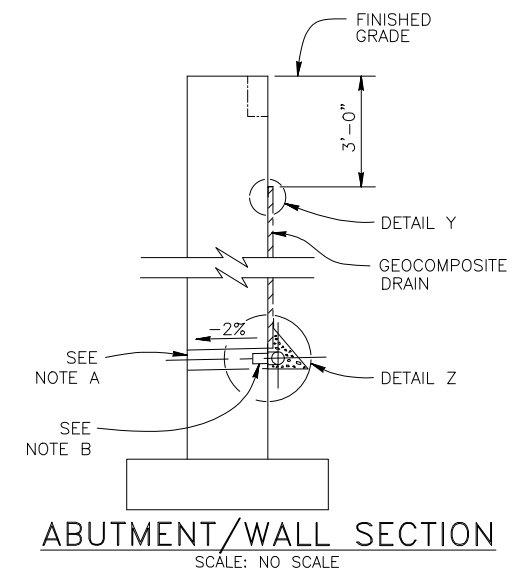
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PROJECT TITLE WOOD ACRES RD BRIDGE	
6	7
SHEET	OF

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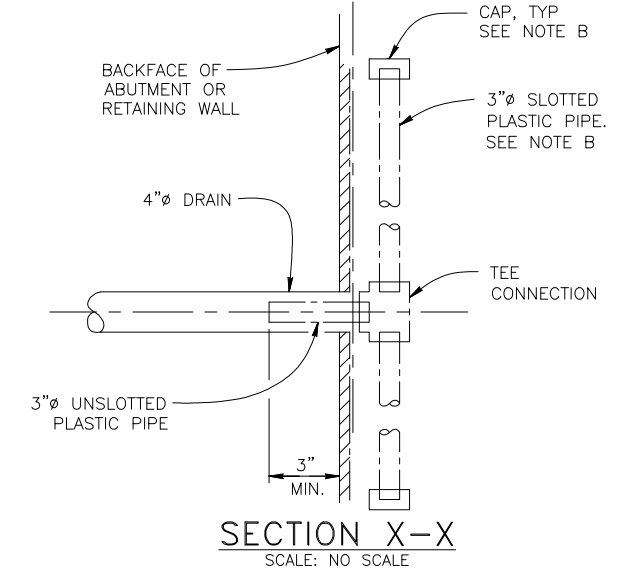
JOB



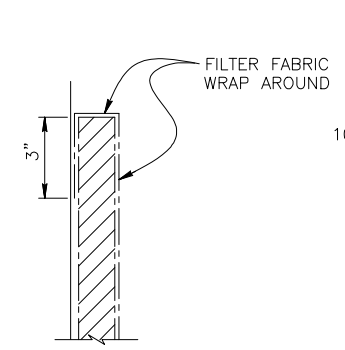
SECTION D-D
SCALE: 3/4" = 1'-0"



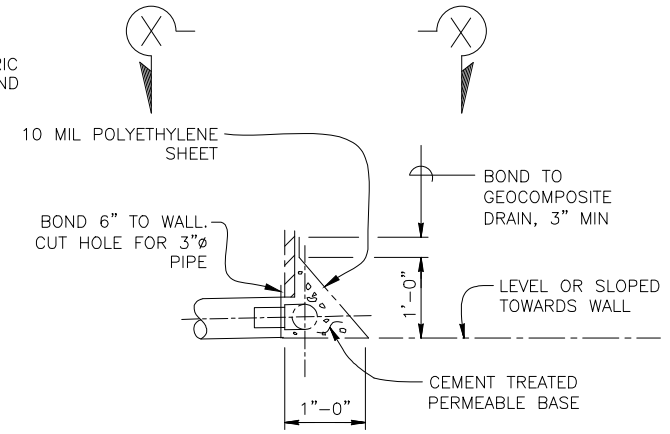
ABUTMENT/WALL SECTION
SCALE: NO SCALE



SECTION X-X
SCALE: NO SCALE



DETAIL Y
SCALE: NO SCALE



DETAIL Z
SCALE: NO SCALE

DRAIN DETAIL NOTES:

- A. 4" DRAINS AT INTERMEDIATE SAG POINTS AND AT 20' CENTER TO CENTER, ADJACENT TO SIDEWALK OR CURBS, PROVIDE 4" PLASTIC PIPE UNDER SIDEWALK TO DISCHARGE THROUGH CURB FACE WALL DRAINS SHALL BE LOCATED 3"± ABOVE FINISHED GRADE.
- B. GEOCOMPOSITE DRAIN, CEMENT TREATED PERMEABLE BASE, AND 3" SLOTTED PLASTIC PIPE CONTINUOUS BEHIND RETAINING WALL, WINGWALL, AND ABUTMENT.
- C. CONNECT THE LOW END OF PLASTIC PIPE TO THE MAIN OUTLET PIPE. CAP ENDS OF PIPE AND PROVIDE TEE CONNECTION AT EACH 4" DRAIN.

WEEP HOLE AND GEOCOMPOSITE DRAIN

ALTERNATIVE TO CULVERT DETAIL (BO-3)
3-1

- NOTES:**
1. THE DIFFERENCE IN LEVEL OF BACKFILL ALONG THE INTERIOR AND EXTERIOR FACES OF THE ABUTMENT DIAPHRAGM SHALL NOT EXCEED 4'-0" AT ANY TIME DURING CONSTRUCTION.
 2. CONTRACTOR TO VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.
 3. WHERE SPLICES ARE REQUIRED, SPIRAL REINFORCEMENT SHALL BE LAPPED 80 DIAMETERS MINIMUM. A 135° HOOK THAT IS HOOKED AROUND A LONGITUDINAL BAR SHALL BE USED TO TERMINATE THE ENDS OF THE SPIRAL REINFORCEMENT AT LAPPED SPLICES AND AT TOP AND BOTTOM OF THE PILE.
 4. CONTRACTOR TO PROVIDE 3/4" CHAMFER ALONG EDGES OF TOP CONCRETE ABUT AND SLAB (TYP.), UNLESS DETAILED AS OTHERWISE ON THESE PLANS.
 5. FOR LOCATION OF "SECTION D-D", SEE "ABUTMENT 2 LAYOUT AND SECTION" SHEETS
 6. FOR LOCATIONS OF "DETAIL B", SEE "ABUTMENT 1 LAYOUT" SHEET.



	140 DIAMOND CREEK PLACE ROSEVILLE, CA 95747 (916) 788-0100 (916) 788-0159 (FAX)	SHEET TITLE ABUTMENT 2 DETAILS	
	PROJECT TITLE WOOD ACRES RD BRIDGE		SHEET OF 7 OF 7
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