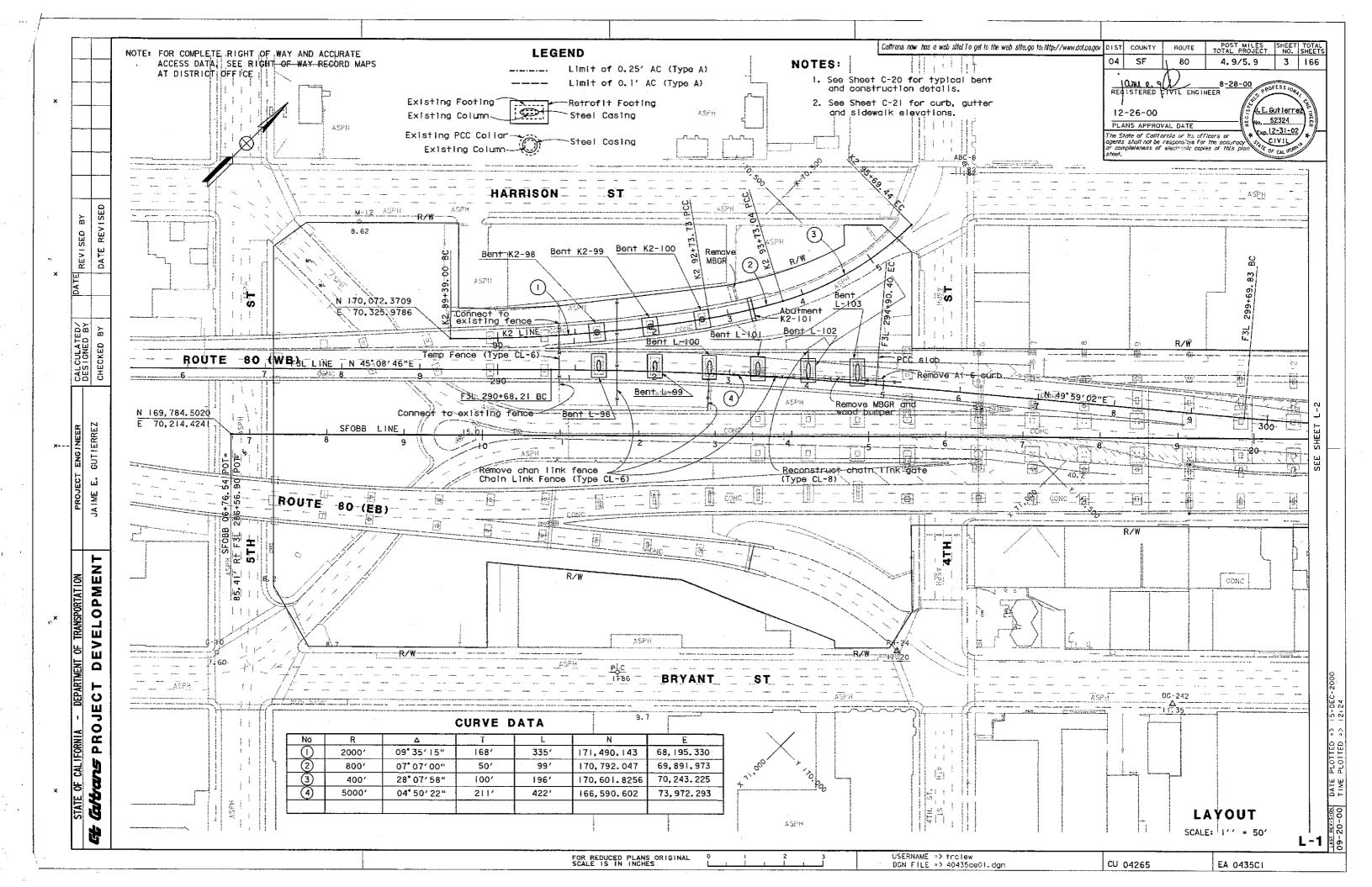
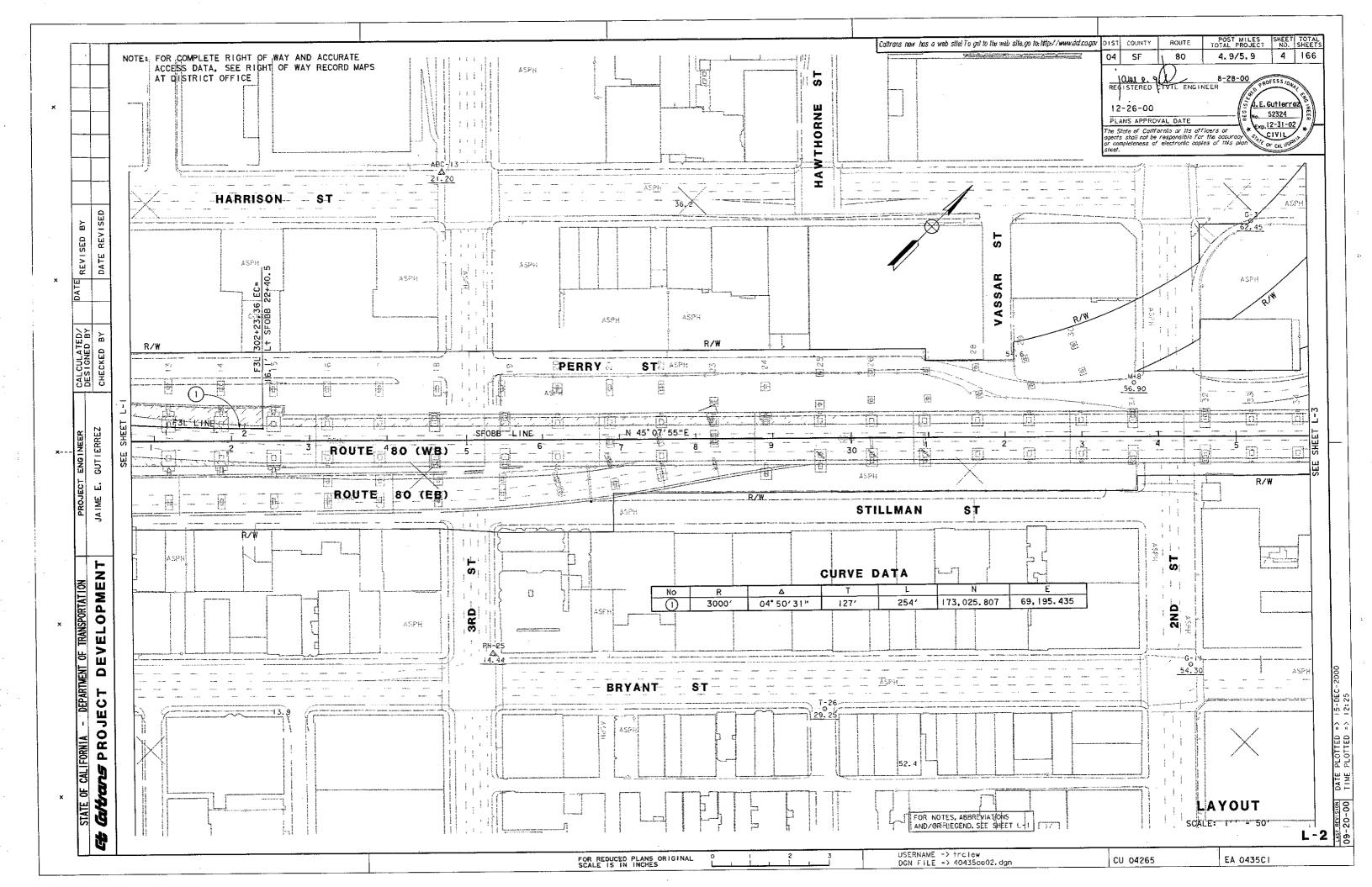
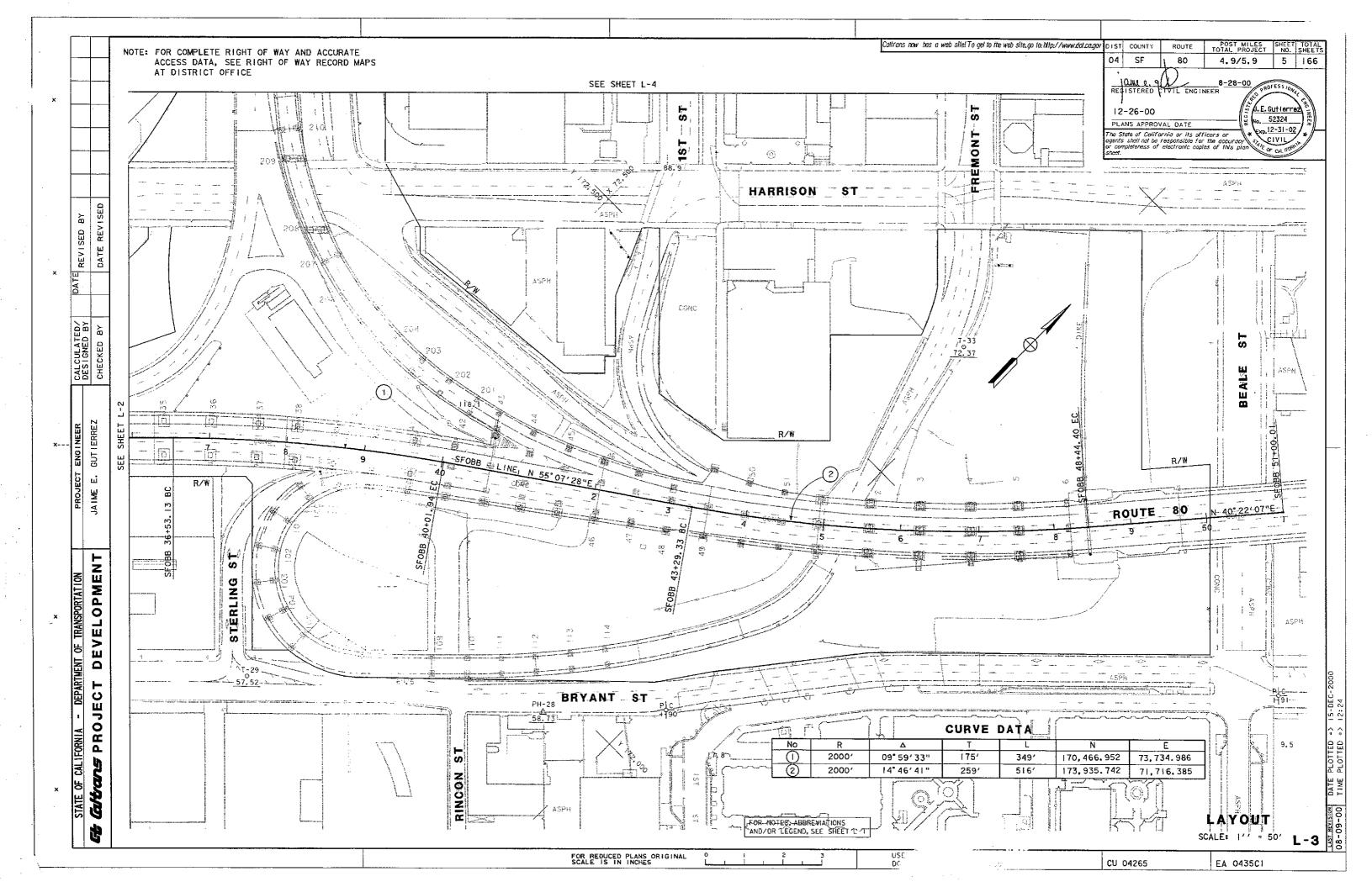
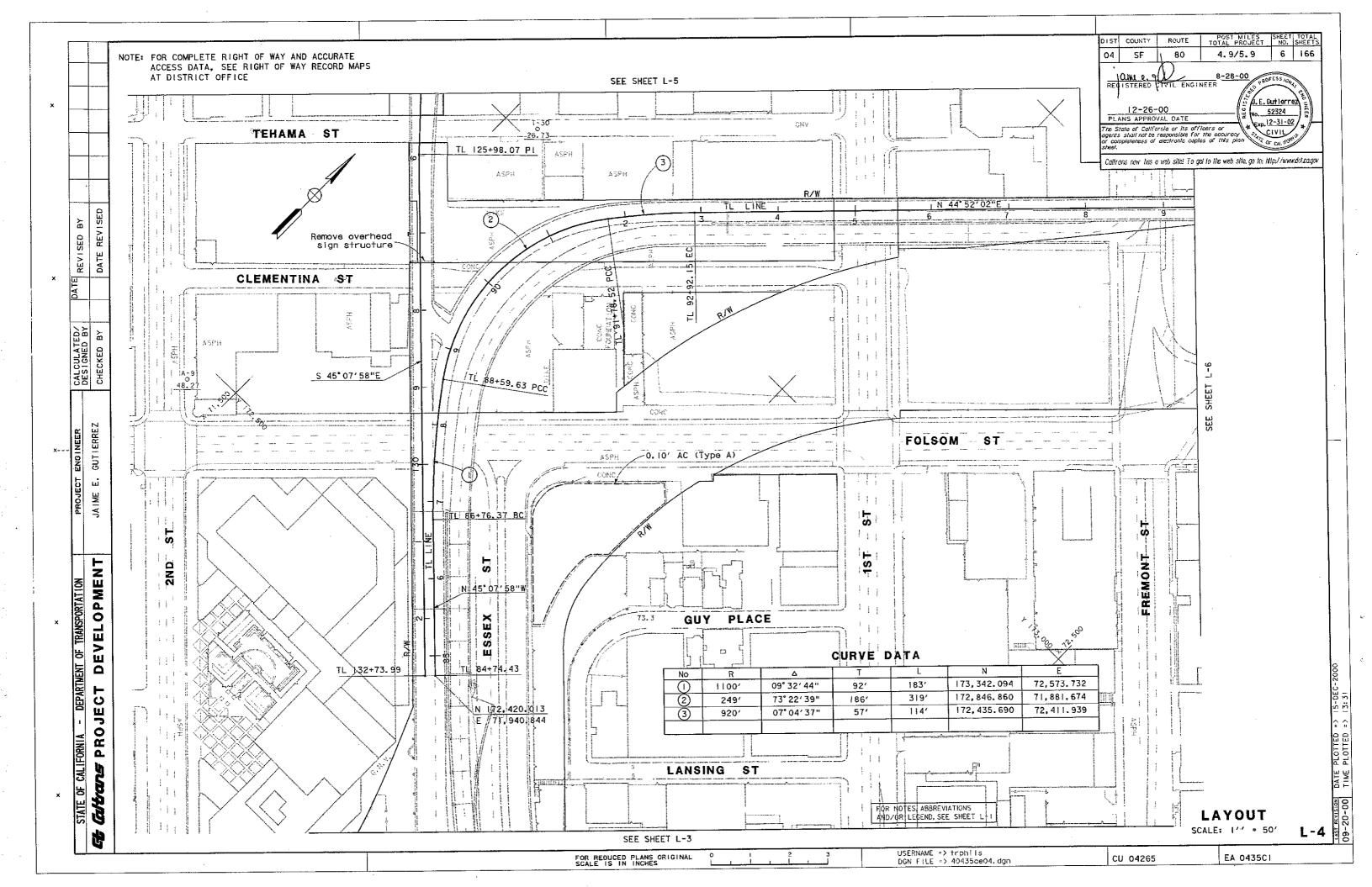


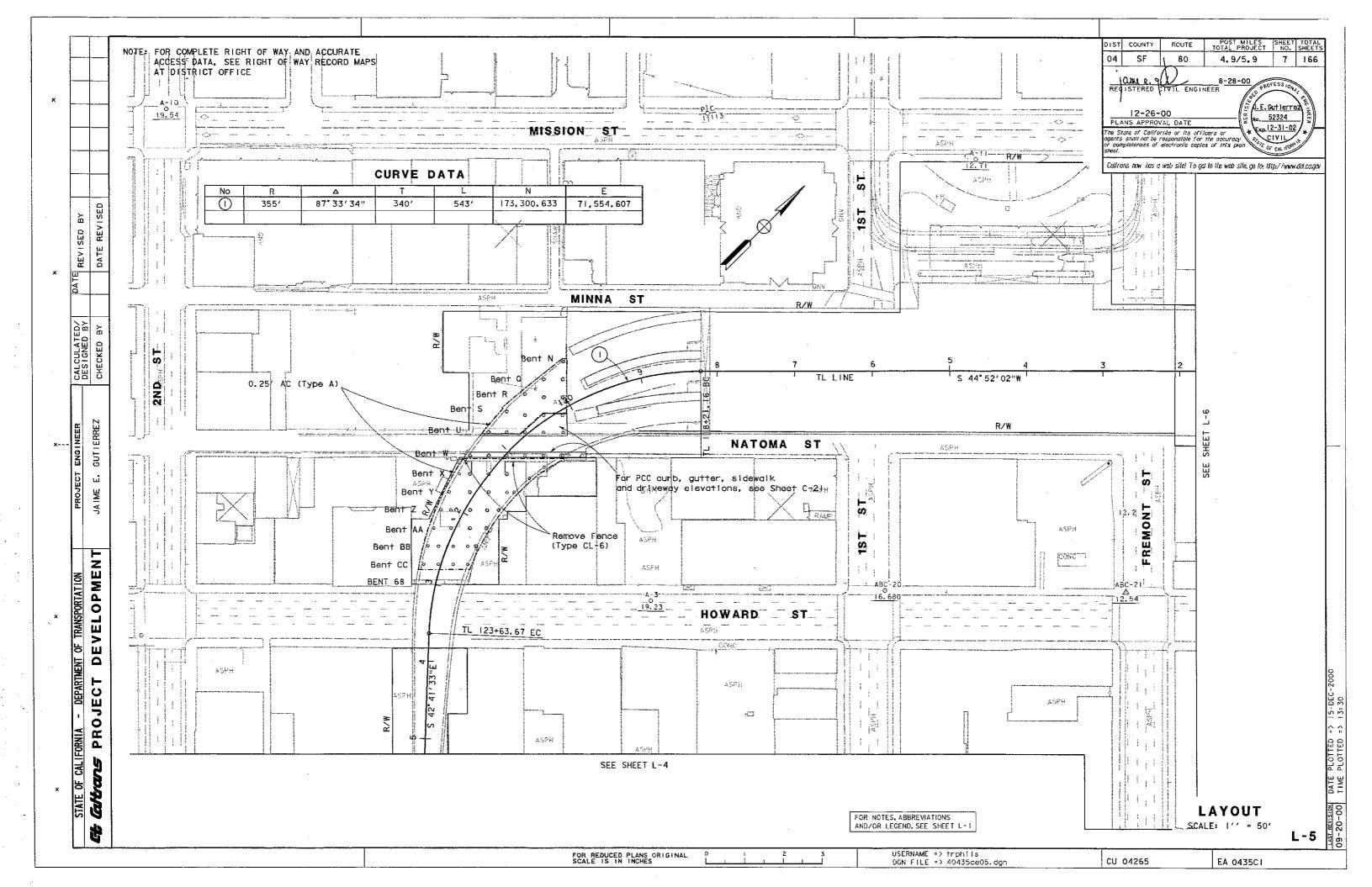
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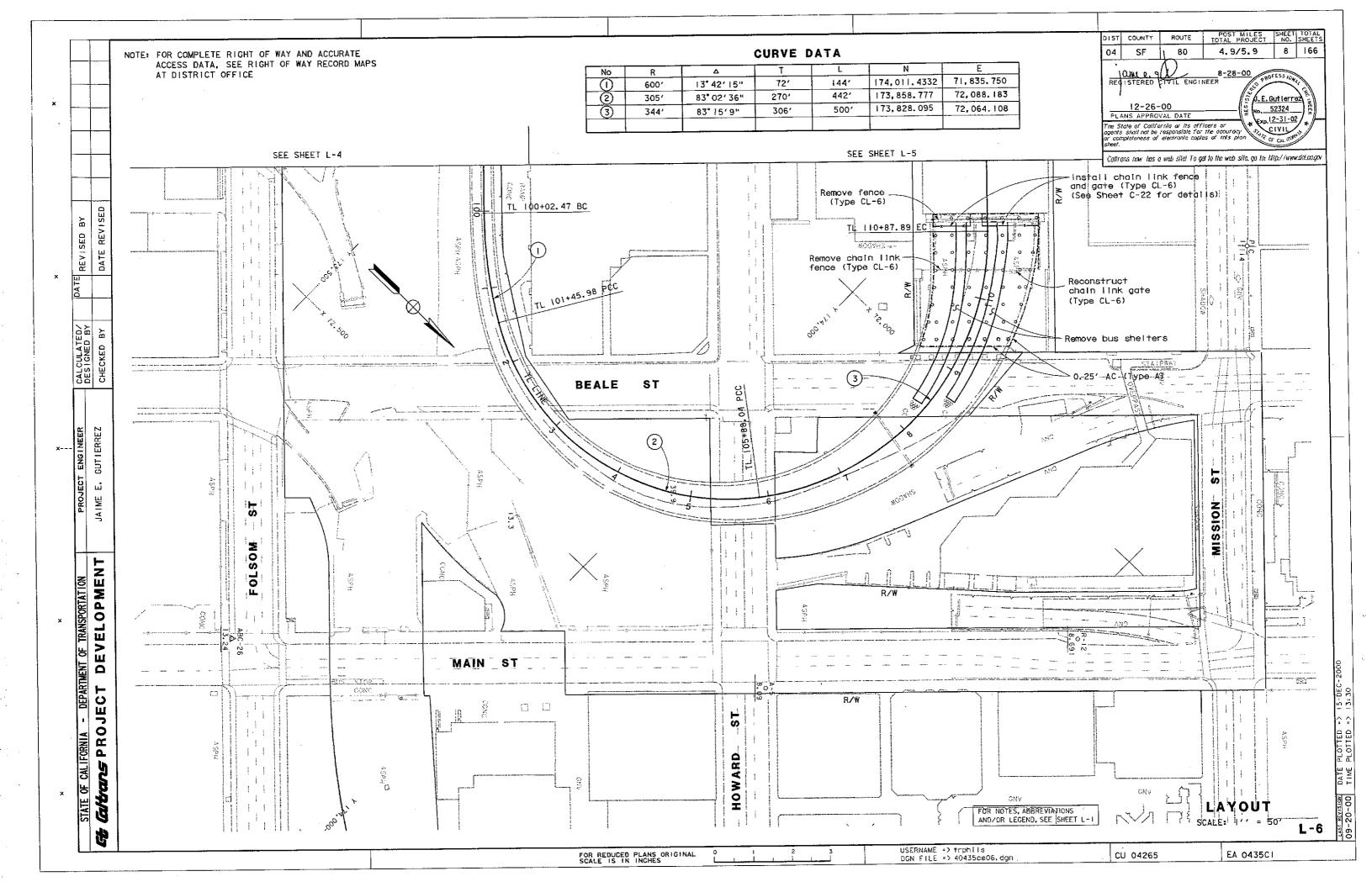












	А
AB	aggregate base
ABBC	asbestos bonded
	bituminous coated
ABM	air-blown mortar
Abn	abandon
Abut	abutment
AC ACB	asphalt concrete asphalt concrete base
ACP	asbestos cement pipe
AFES	alternative flared end section
And	ahead
Adj	adjust
Alt	alternate
AP	alternative pipe
APC	alternative pipe cuivert
APU	alternative pipe underdrain
AS	aggregate subbase
ASRP	aluminum spirairib pipe
Assy	assembly
ATPB ATPM	asphalt treated permeable base asphalt treated permeable material
Ave	avenue
ATU	
	В
BB	beginning of bridge
BC	begin horizontal curve
BCR	begin curb return
Beg	
віт ста Вк	bítuminous coated back
Bkf	backfill
Bldg	building
Blyd	boulevard
ВМ	bench mark
Вг	bridge
BVC	begin vertical curve
BW	barbed wire
	С
CAA	cable anchor assembly
CAP	corrugated aluminum pipe
CAPA	corrugated aluminum pipe arch
CAS	construction area sign
C-C	center to center
Chni	channel
CIDH	cast-in-drilled-hole
CIP	cast iron pipe
CIPCP €	cast-in-place concrete pipe centerline
CL	chain link
CI	class
Cir	clear, clearance
Co	county
Col	column
Conc	concrete
Cond	conduit
Conn	connector
Const	construct(ion)
Coord	coordinate
Cr	
CRSP	concreted rock slope protection
CSP CSPA	corrugated steel pipe corrugated steel pipe arch
USFA	

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СТВ	cement treated base	GSP
CTPB	cement treated permeable base	
CTPM	cement treated permeable material	
Culv	culvert	H
	D	HD Horiz
D	depth	HP
DDI	double	HS
DD	downdrain	HW
Del	delineator	Hwy
Det DF	detour or detail Douglas Fir	
DI	drainage inlet	IB
Dia	diameter	۱D.
Dist	distance	Inv
DMBB	double metal beam barrier	I rr
Dr	drive	
DTBB	double thrie beam barrier	JP
Dwy	driveway ·	JS
	E	Jt
EA	each	
Ease	eosement	ΚP
EB	end of bridge or eastbound	
EC	end horizontal curve	
ECR	end curb return	1
ED	edge drain	LCB
EDC	edge drain cleanout	Loc LOL
EDO	edge drain outlet	LOL
EDV	edge drain vent	LS
Ele∨ Emb	elevation embankment	Lt
EP	edge of pavement	
Ea	equation	
ES	edge of shoulder	Max
ETW	edge of traveled woy	MB
EVC	end vertical curve	MBB
EW	endwall	MBGR
Exc	excavation	Med
Exist	existing	MH Mkr
Exp	expressway expansion joint	Min
CXD 21		Misc
	F	Misc
F&C Foln	frame and cover foundation	Mod
FEBT	facing eastbound traffic	Mon
FNBT	facing northbound traffic	MP
FSBT	facing southbound traffic	MPGR
FWBT	facing westbound troffic	MR
FES	flared end section	Mtl
FF	filter fabric	
F & G	frame and grate	NB
FG	finished grade	No.
FH FL	fire hydrant flow line	NPS
r∟ Fr Rd	frontage road	ø
Ftg	footing	
Fwy	freeway	
-	-	0blr
_	G	00
Ga	gage	OD
Galv	galvanized grading plane	OG
GP GR	guard railing	OGAC
011		OH

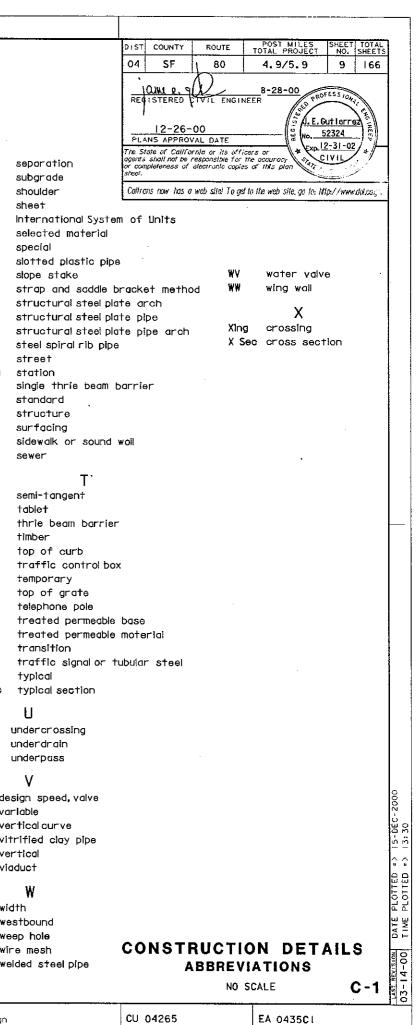
	galvanized steel pipe
iz	H height, hour horizontal drain horizontal hinge point hIgh strength headwall highway
	imported borrow inside diameter invert irrigation joint pole junction structure joint
	K kilometer post L
	length,liter lean concrete base location layout line lane lump sum left
	М
R R I C 1&S C I I R	miscellaheous modified or modify monument metal plate metal plate guard railing movement rating material
;	N northbound number nominal pipe size nominal diameter
-	O obliterate overcrossing outside diameter
C	original ground open graded asphalt concrete

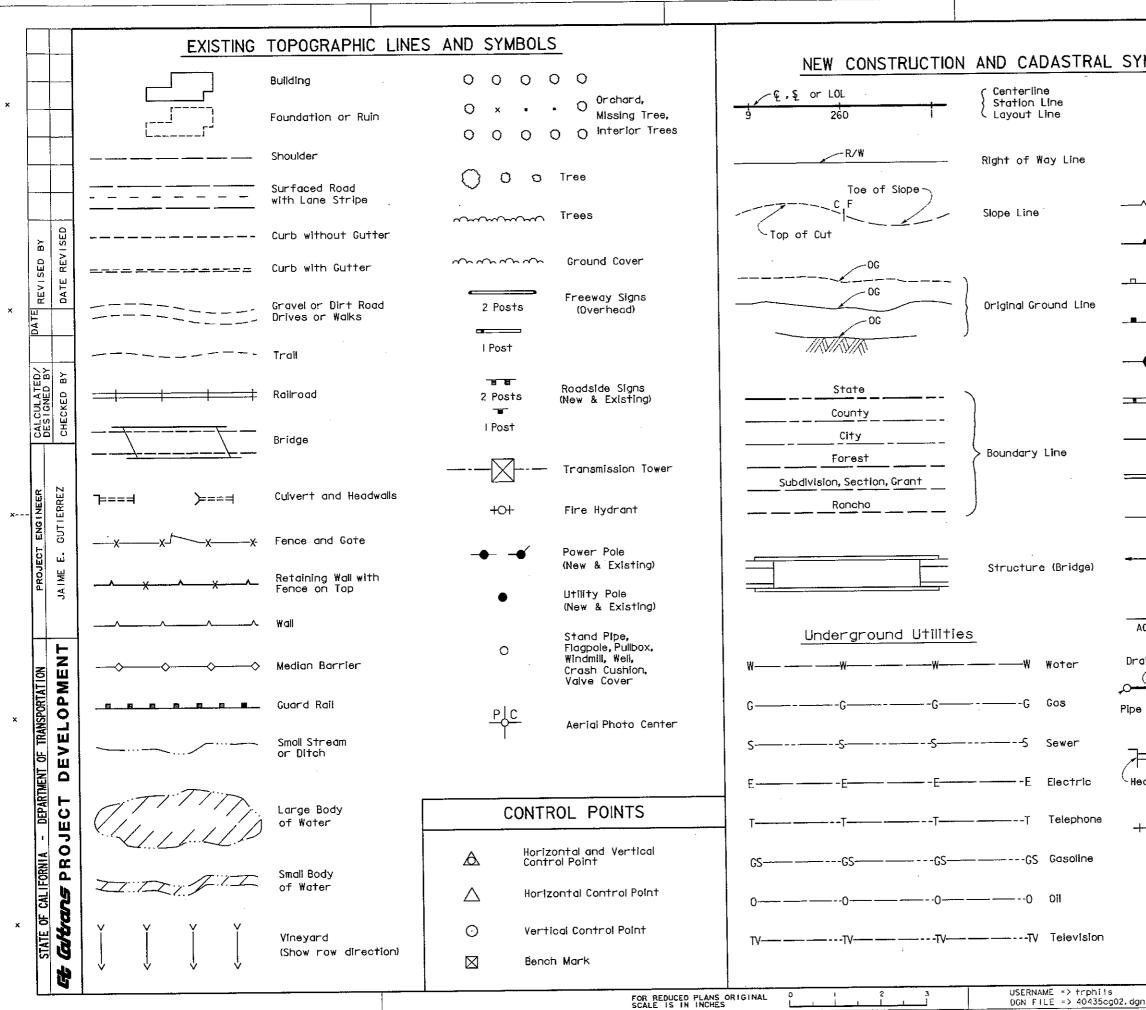
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	Р		
PAP	perforated aluminum pipe		
PB	pull box		
PC	point of curvature		
PCC	point of compound curve or		
	portland cement concrete	Sep	
PCP	perforated concrete pipe	SG	
PCVC	point of compound vertical curve	Shid	
Ped	pedestrian	Sht	
Ped 0C	pedestrian overcrossing	SI	
Ped UC	pedestrian undercrossing	SM	
Perm Mtl	permeable material	Spec	
PG	profile grade	SPP	
PI	point of intersection	SS	
PL, P/L	property line	SSBM	
₽,PL	piate	SSPA	
PM	post mile	SSPP	
PN	paving notch	SSPPA	
POC	point on horizontal curve	SSRP	
POT	point on tangent	St	
POVC	point on vertical curve	STA, St	D
PP	power pole, plastic pipe	STBB	
PPP	perforated plastic pipe	Std	
PPL	preformed permeable liner	Str	
PRC	point of reverse curve	Surf	
PRF	pavement reinforcing fabric	S₩	
PRVC PSP	point of reverse vertical curve	Swr	
PVC	perforated steel pipe polyvinyl chloride		
Pvmt	pavement	т	
	R	TAB	
R	radius	TBB	
RCA	reinforced concrete arch	Tbr	
RCB	reinforced concrete box	TC	
RCP	reinforced concrete pipe	тсв	
RCPA	reinforced concrete pipe arch	Temp	
R&D	remove and dispose	TG	
Rd	road	TP	
Reinf	reinforced or reinforcing	TPB	
Rel	relocate	TPM	
Ret	retaining	Trans	
RM	road-mixed	TS	
RP	reference point	Тур	
RR	railroad	Typ Se) C
R & S	remove and salvage		
RSP	rock slope protection		
Rt	right	UC	
Rte	route	UD	
RW	retaining wall	UP	
R/W	right of way		
	S	v	d
SAE	structure approach embankment	Var	v
Salv	salvage	VC	v
SAPP	structural aluminum plate pipe	VCP	v
SB	southbound	Vert	v
SC	sand cushion	Via	v
٤ .	station line		
SCCD	slotted corrugated steel pipe or		
SCSP	(sacked concrete slope protection	W	۷
	storm drain	₩B	¥
SD ·	structural section drain	₩H	W
	subgrade drain	WM	W
Sec	section	₩SP	¥

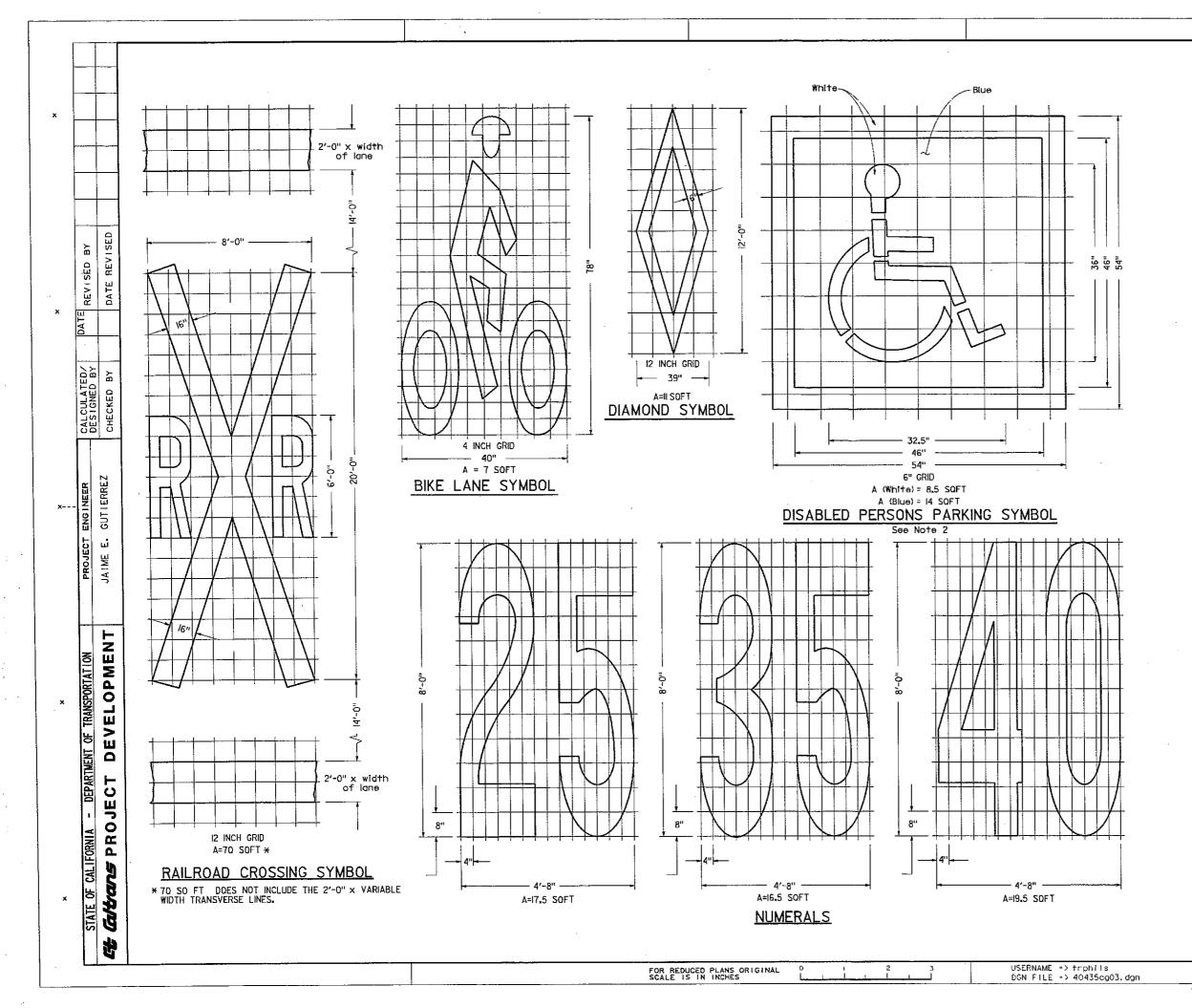
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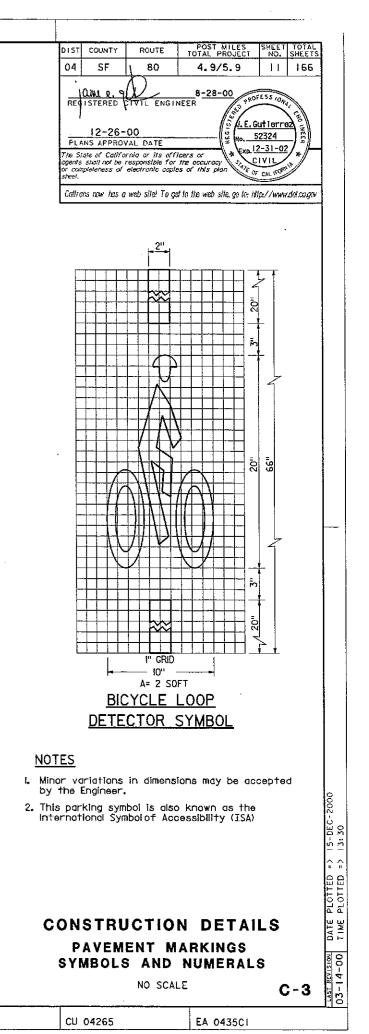
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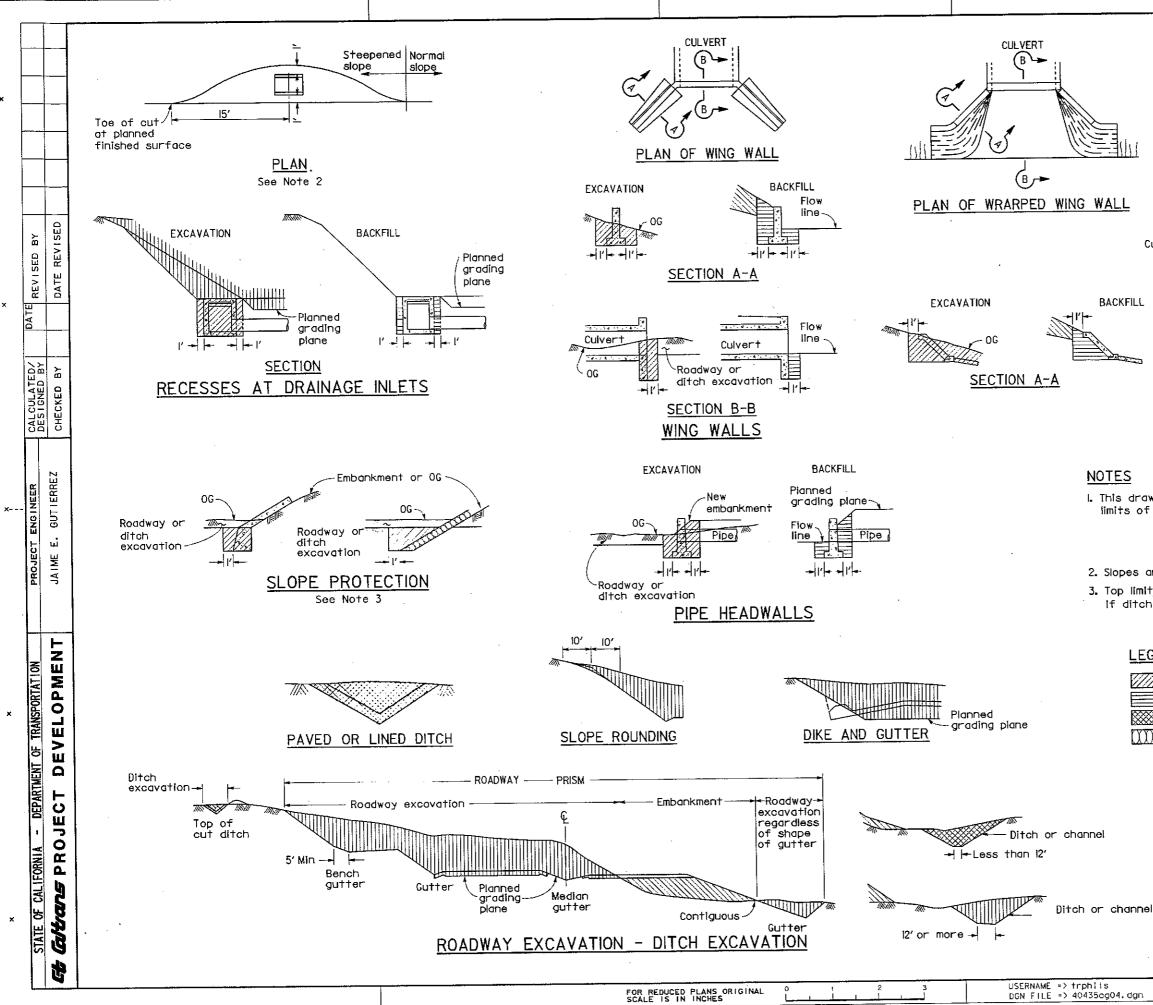




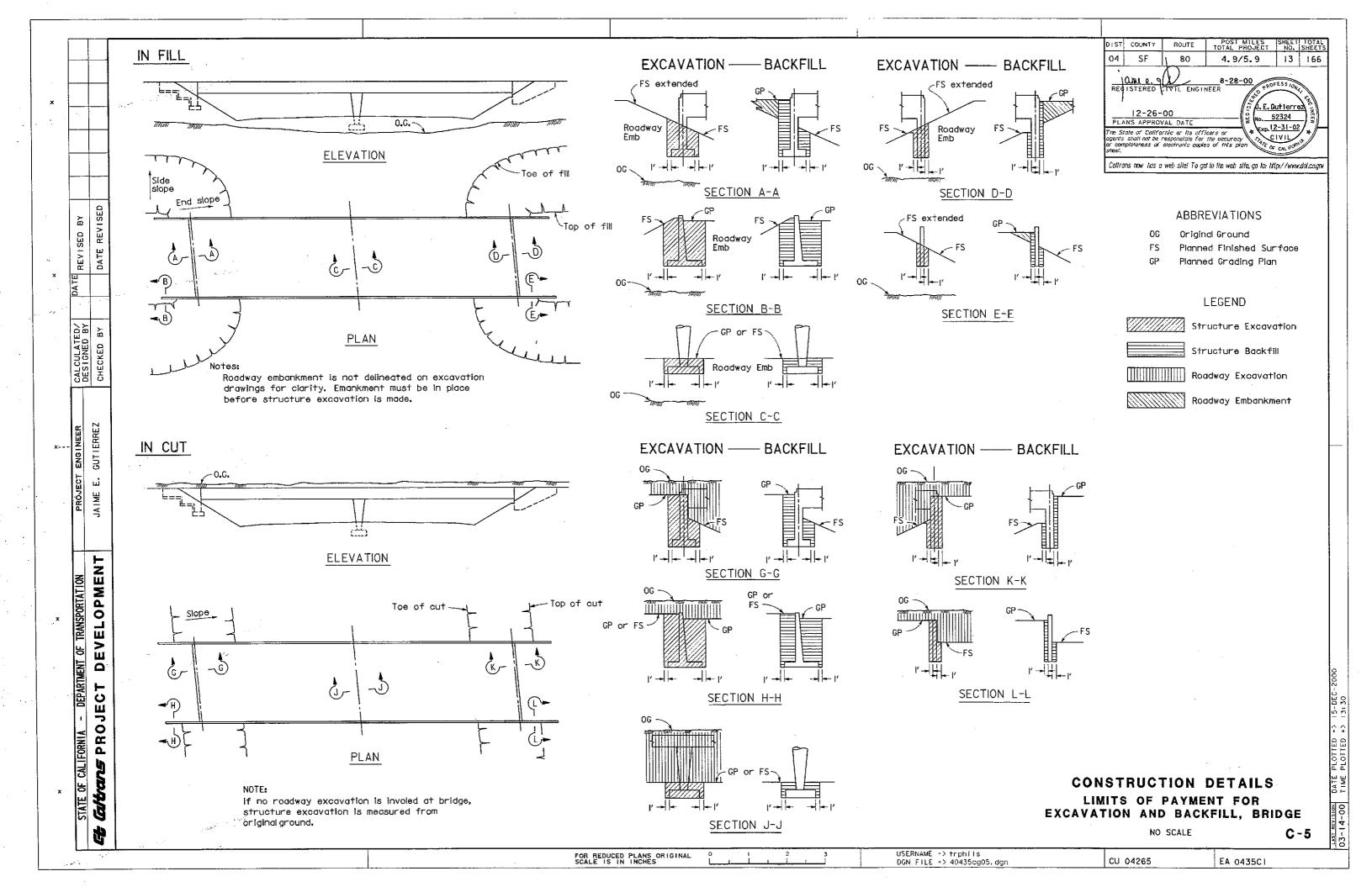
	DIST	COUNTY	ROUTE	POST MILE	S SHEET	TOTAL	
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<u> </u>		_ ^	Existin				
Face of Wall		Đ	New W Existir Railing	ng Guard			
	•	L.R	New G	uard Railing)		
♦♦♦		•	Concr	ete Barrier	-		
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<u> </u>			-	with Gutter	-		
X	— X		- Fence	, Flow Line		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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AC Overside	_	ndrain	- Dike	and Oversia	de Drain		
e inlet Drainage Inlet	FI	ared End Section -	i (36" d	Culvert or less in c	llameter)	1	
adwoll	E	indwall /	- ·	Culvert (gr n diameter)		חשר	15-DEC-2000 13:30
<mark>⊢ </mark>		<u> </u>	+ Railr∙	bad			DATE PLOTTED => 15-D TIME PLOTTED => 13:3
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				ABOLS SCALE	(C-2	1457 REVISION
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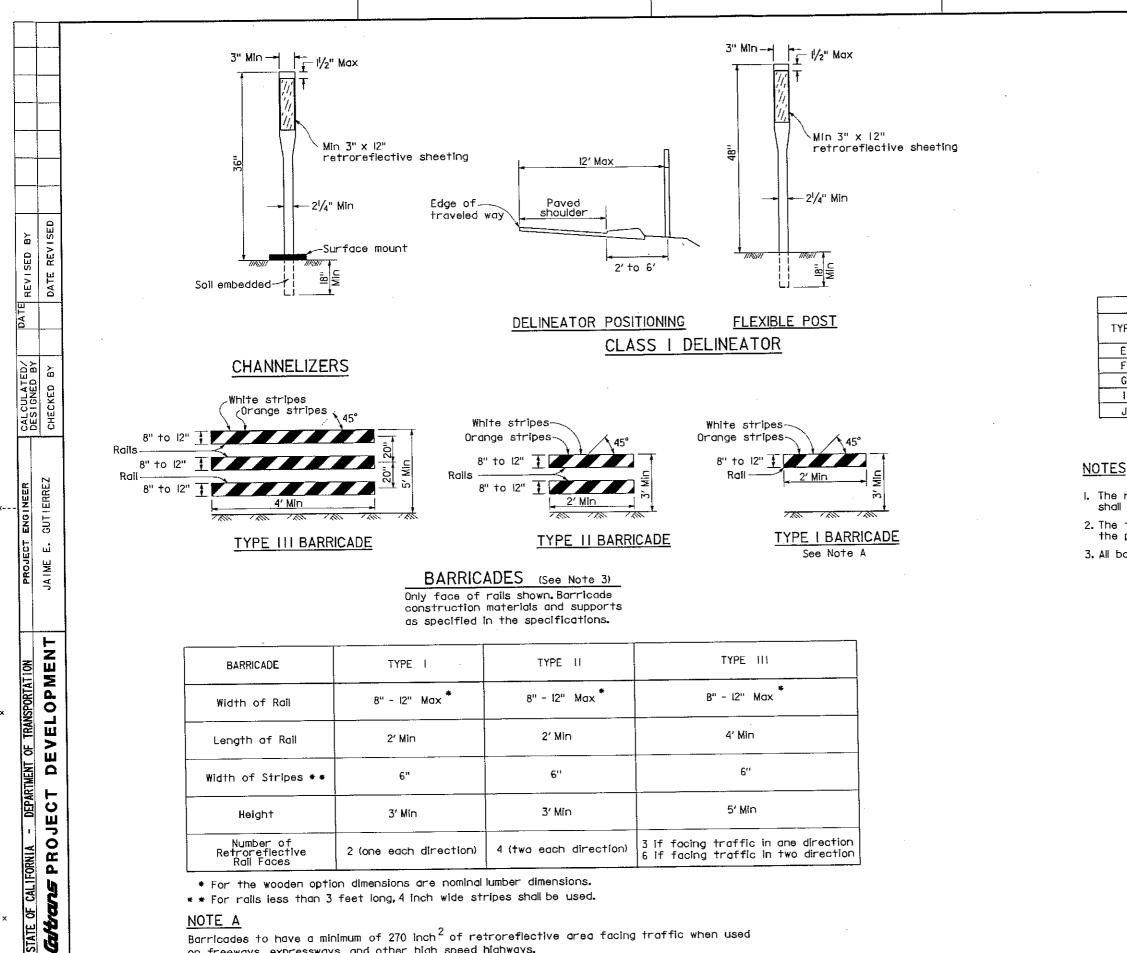






POST MILES TOTAL PROJECT NO. SHEETS DIST COUNTY ROUTE 12 166 SF 4.9/5.9 04 80 100m 8-28-00 IVIL ENGINEER REGISTERED E. Gutlerre 12-26-00 52324 PLANS APPROVAL DATE Exp. 12-31-02 The State of California or its officers or agents shall not be responsible for the accurate or completeness of electronic copies of thi CIVIL electronic copies of this Caltrans now has a web site! To get to the web site, go to: http://www.dol.ca.gov 4 Culve - Flow Culver line Roadway or ditch excavation SECTION B-B WARPED WING WALLS I. This drawing indicates the work to be done and limits of payment for: Roadway Excavation Ditch Excavation Structure Excavation for Slope Protection 2. Slopes and dimensions may vary to fit field conditions. 3. Top limit of structure excavation is original ground If ditch is not excavated. LEGEND Roadway Excavation Structure Excavation Roadway Embankment Structure Backfill Original Ground 🕅 Ditch Excavation CONSTRUCTION DETAILS EXCAVATION AND BACKFILL 8 MISCELLANEOUS DETAILS NO SCALE C-4 CU 04265 EA 0435C1





* * For rails less than 3 feet long, 4 inch wide stripes shall be used.

NOTE A

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Barricades to have a minimum of 270 inch² of retroreflective area facing traffic when used on freeways, expressways, and other high speed highways.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET	TOTAL
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	DELIN	EATORS
TYDE	RETROF	REFLECTIVE SHEETING
TYPE	FRONT	BACK
E	White	White (See Note I)
F	White	None
G	Yellow	None
1	Yello₩	Yellow (See Note I)
J	Red	None

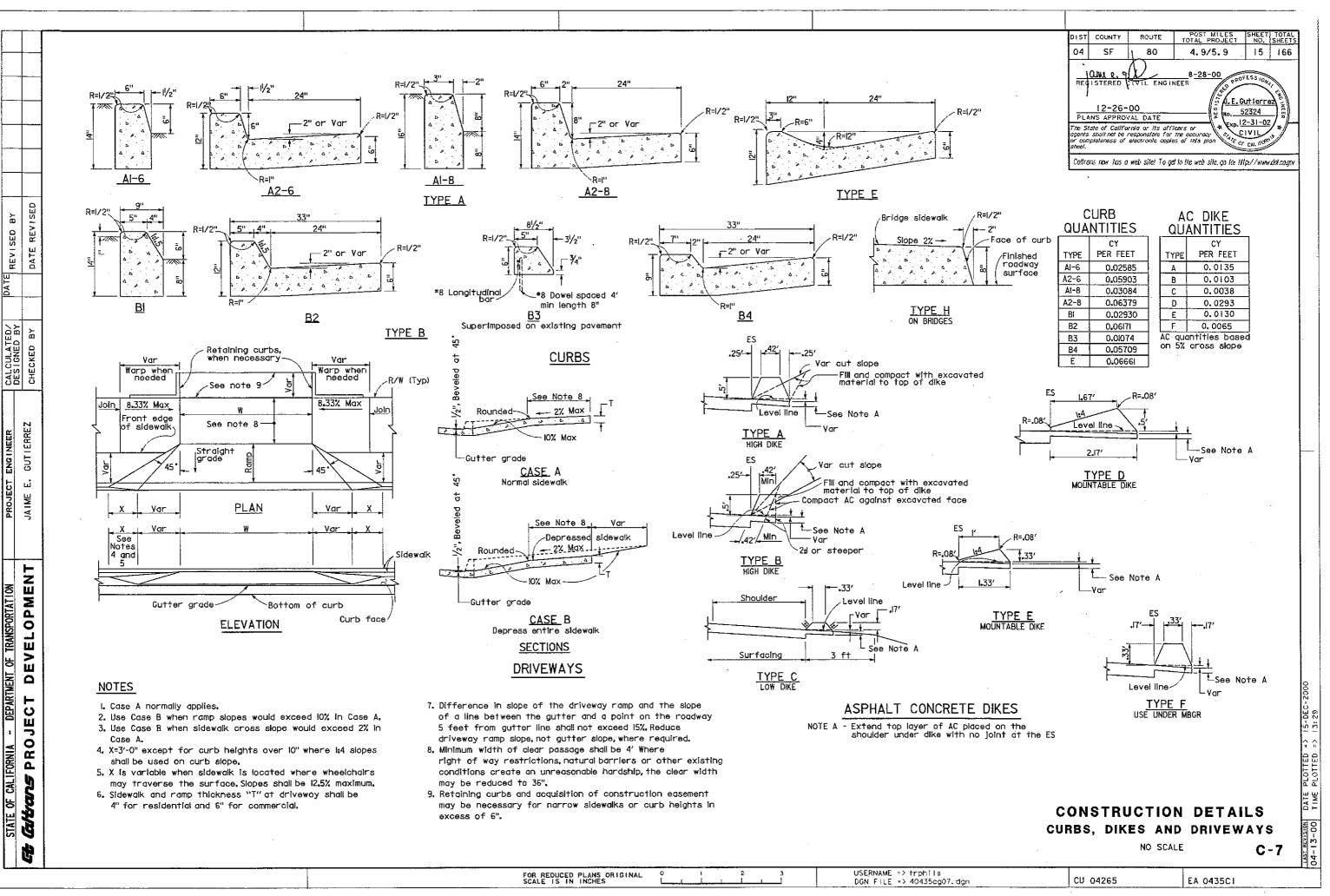
I. The retroreflective sheeting used on the back of delineator shall be a minimum size of 3 inch x 3 inch.

The type of delineator to be installed will be designated on the plans.

3. All barricode stripes shall be retroreflective.

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CONSTRUCTION DETAILS Delineators, channelizers	DATE	
AND BARRICADES NO SCALE C-6	03-14-00	

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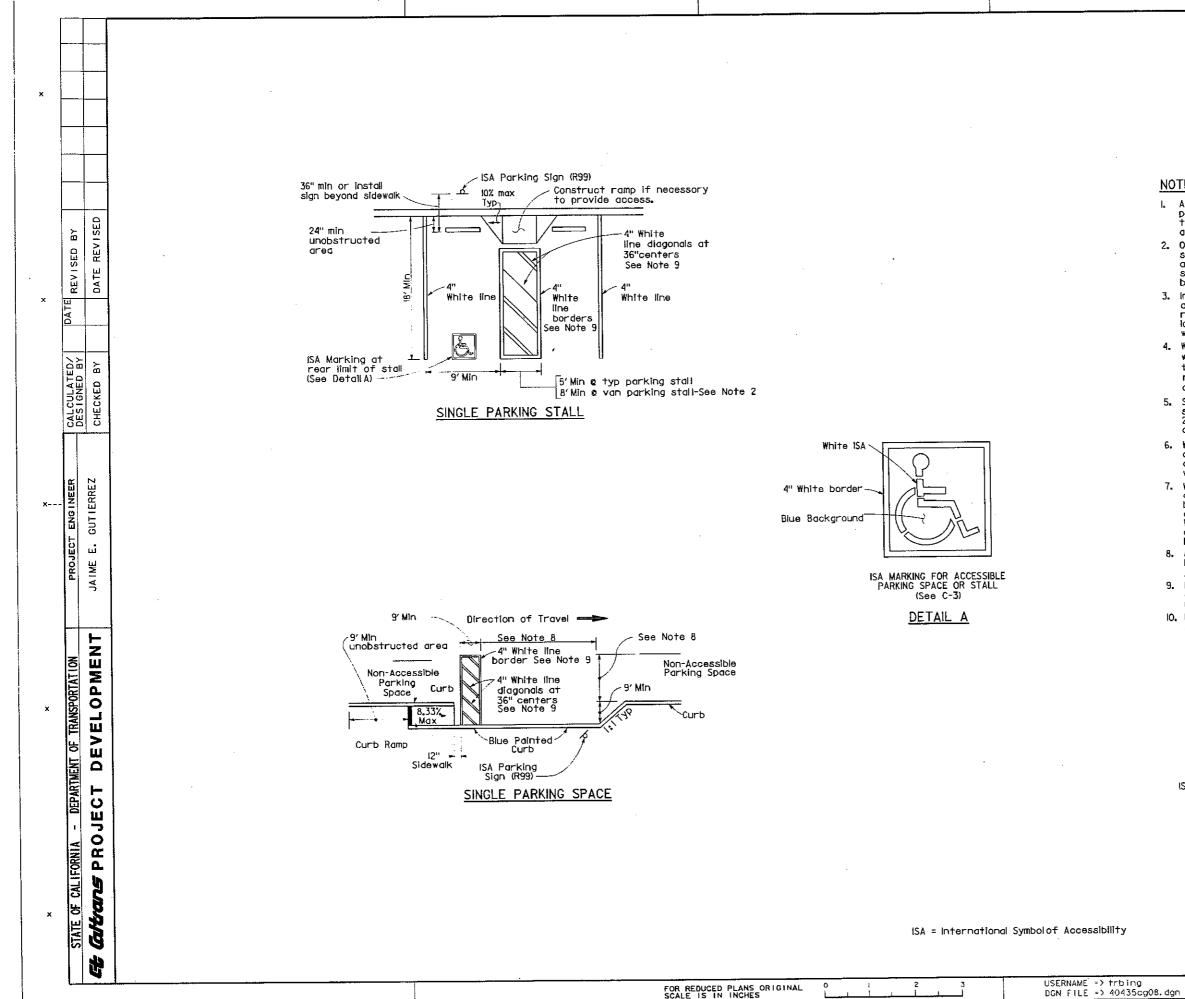
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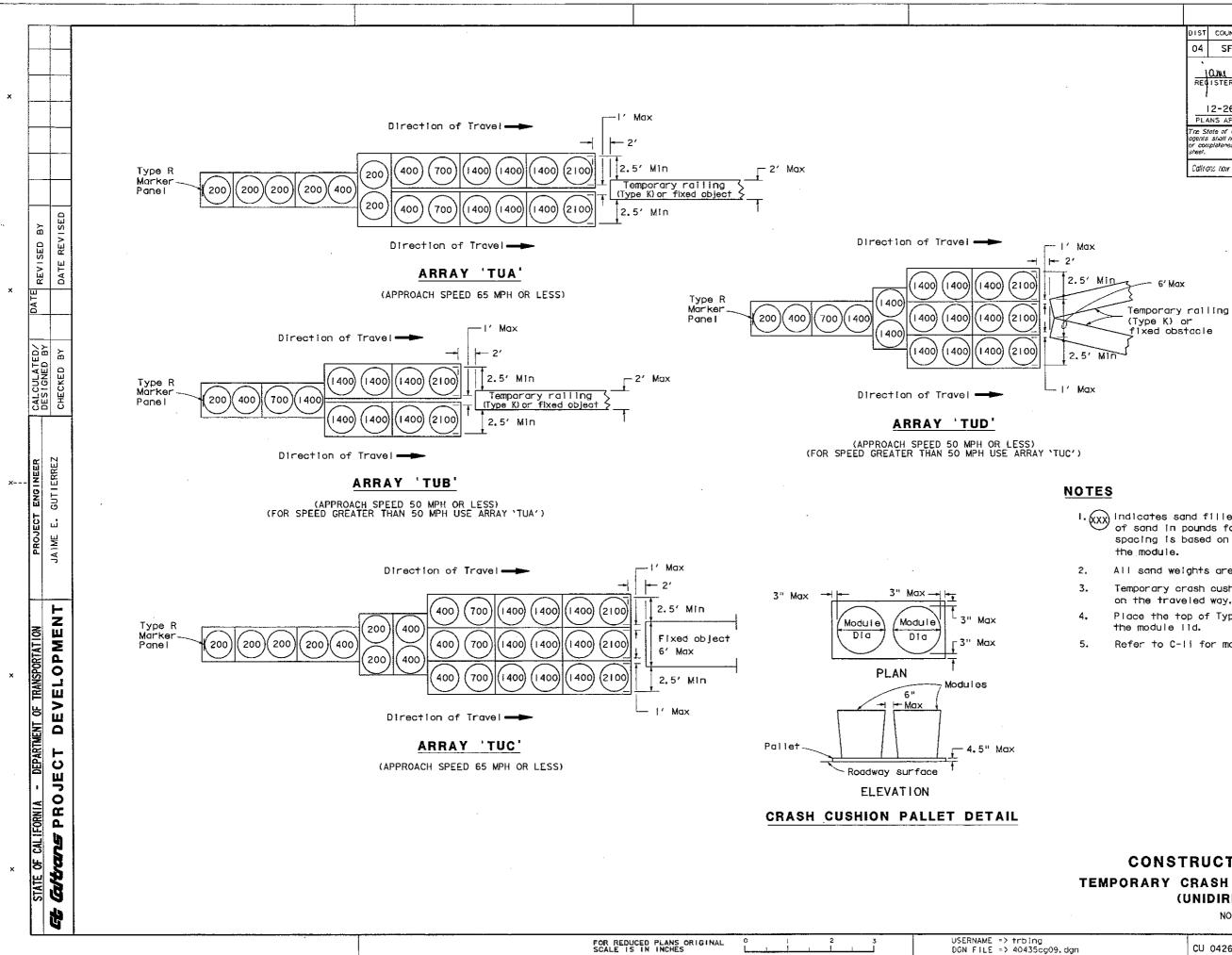


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	cceni s cr con sheet.	npleteness of	ornia or its off responsible for electronic capi	ne of s	inis plon	F CAL IFURN		
	Coltr	ans now has a	a web site! To g	a to the	e web site, go to: h	llp://www	idot.ca.gov	
ES	<u> </u>							
Accessible parking s possible, and on the to the pedestrian (ar garage. One in every eight stalls, but not less accessible aisle of	acce	ssible of none, sl	ccessible r exit of th f-street hall be ser	oute e po park rved	e of travel arking lot ing by an			
signed van accessib be maunted belaw t	le. Ti	he R99A '	"Yan Acces	saíbie	" sign shal	l		
In each parking sta and located to pre- required width of v located that person wheel or walk behin When less than five	il, a vent volkw ns wi d pai	curb or encrooc ays. Part th disabi rked car	bumper si hment of king stalls Ilities are s other t	nall vehi sho not han	cies over t oll be so compelled their own.	ne to		
with a minimum widt to persons with dia requirement that t or identified for t	h of abilit he s hot	7 feet tes. Howe tall be r purpose.	shall be n aver, there reserved e	nade is exclu	accessible no sively			
Surface slopes of stalls shall be the 2 percent in any d on-street parking	minin Irect stoil	ion, Suri s shali b	and s face slope e the mini	naii sòf mum	accessible feasible			
Where new cn-stre and designated in accessible parking with Table A.	distri shail	lets zone be prov	ed for but Ided in ac	corc	iance			
Where R99 "ISA Part are installed on sic bottom of the sig above the surface Where R99 or R99A other paths af tr be at least 36" dbc	dewall of sign: avel, ove t	ks or ot hel shall the sidev s are no the bott he parki	her paths be a minin walk or pa t Installed rom of the ing area s	of ium th. I on sig urfa	travel, the of 6'~6" sidewalks o jn panei sha jce.			
Accessible on-streat length or width th	ם דו	nat spec	ified by t	he la	ocal Cal	F I 1		
jurisdiction for ot Blue paint, instead	of w	hite may	be used	for	marking			
accessibility aisles markings to not be Design details appr Architect on Marci	in a svis oved	reas whe Ible. by the	re snow n	Jdy	COUSE WONTE	•		
24 States in Contract			YAN ACC	ESSI				000
SA PARKING SIGN (R99))		(R99A) Sta See Na	ndar	d 12" x 8"			2-03
Standard 12" x 18" See Note 7			200 140	.00				5-DEC-2000
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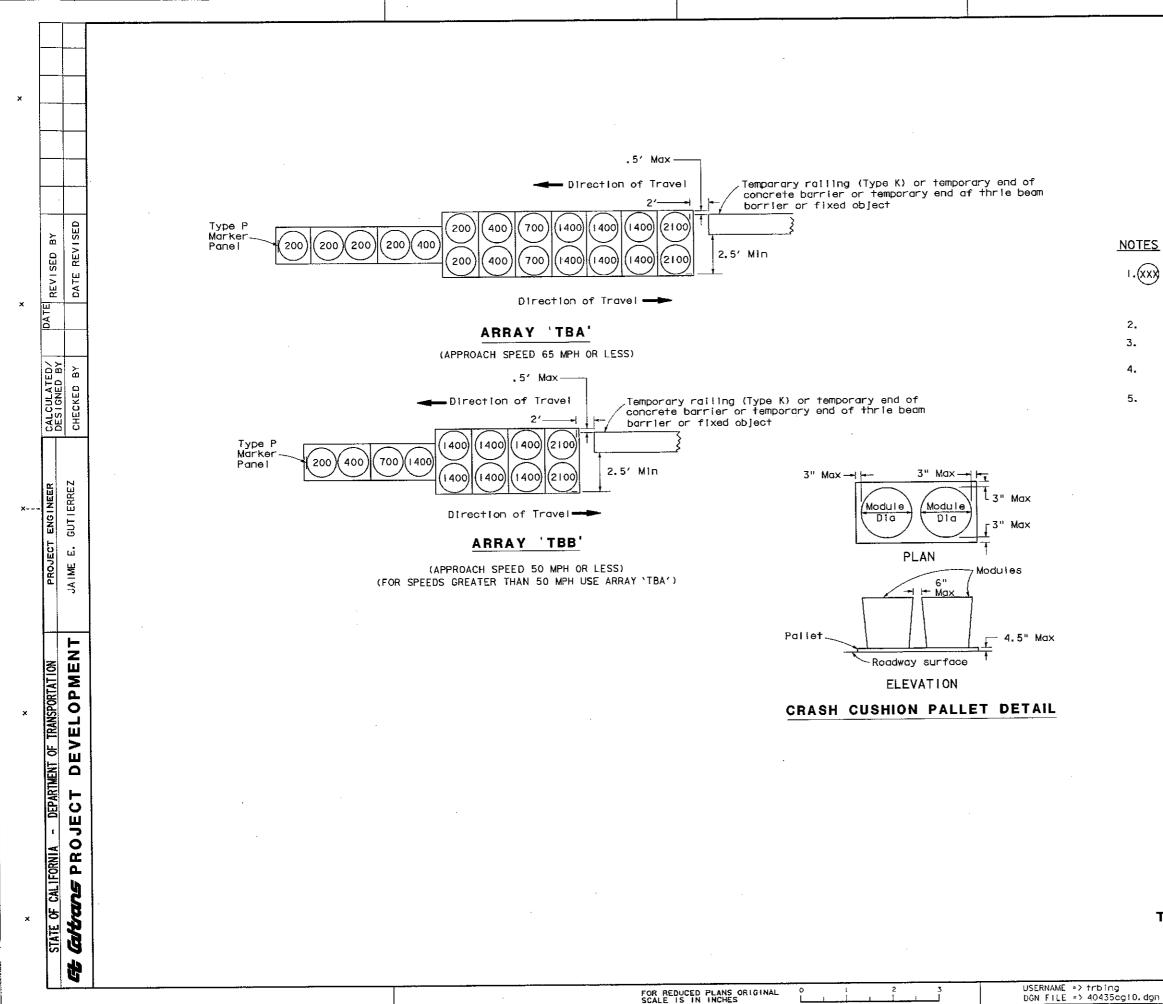
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- $I._{(XXX)}$ indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of
- All sand weights are nominal.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Place the top of Type R morker panel I" below
- Refer to C-li for marker details.

A TE CONSTRUCTION DETAILS TEMPORARY CRASH CUSHION, SAND FILLED (UNIDIRECTIONAL) NO SCALE C-9

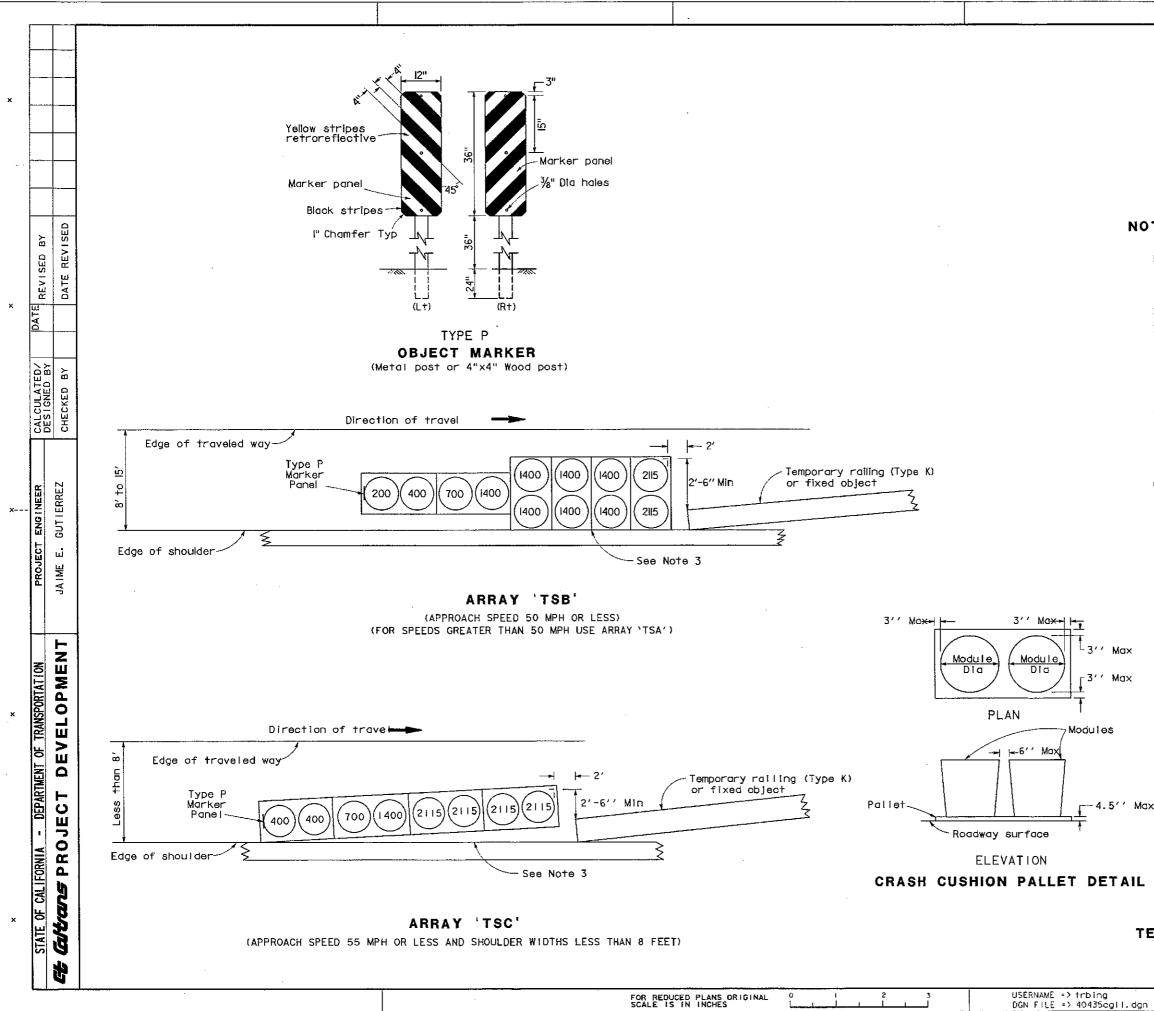
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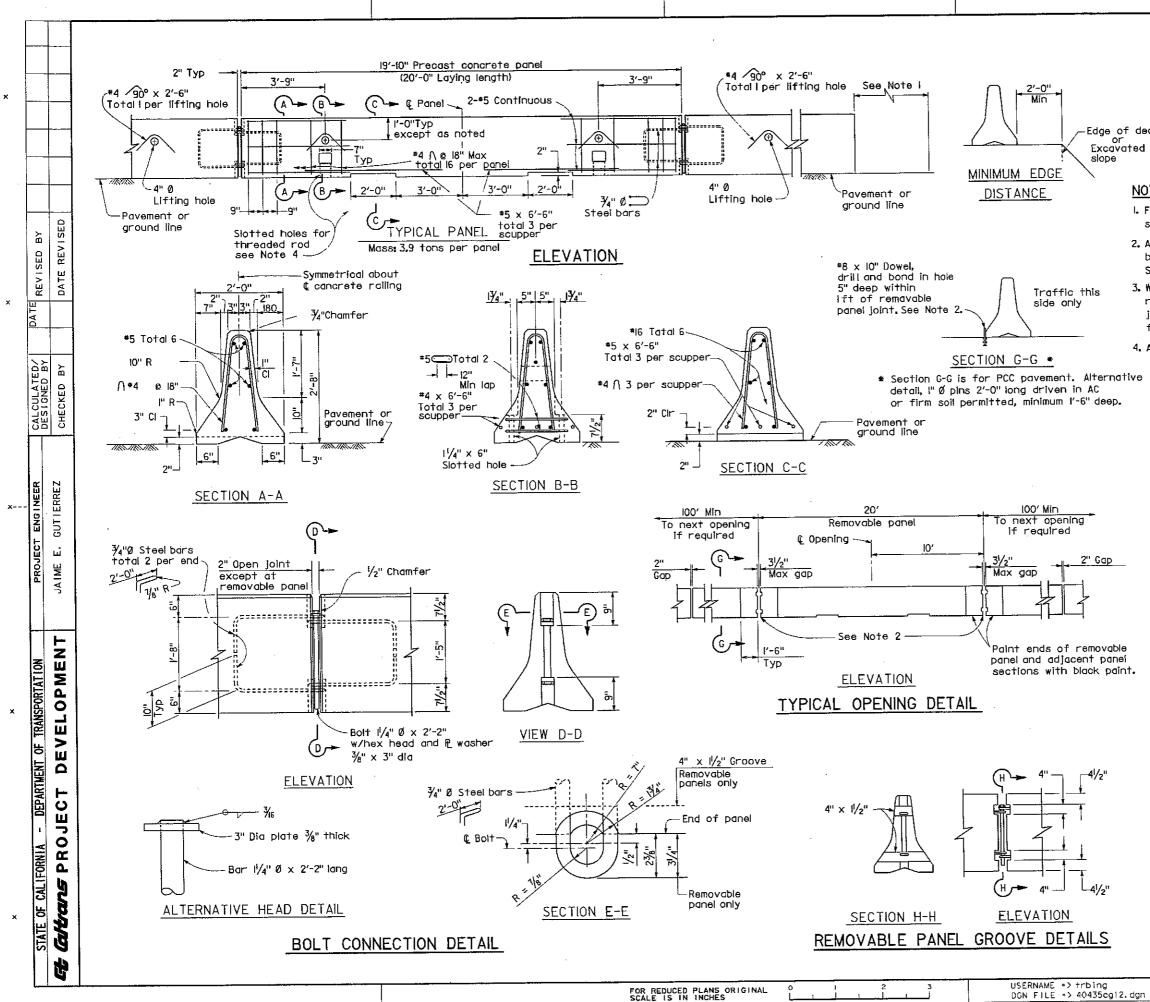


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	sheet.		-	ies of this plon		
Indicates sand of sand in pou spacing is bas the module.	inds fo ied on	or each the gi	n module. reater dl	Module	ı †	
All sand weigh Temporary crash	h cush			II not encroc	ich	
on the travele Place the Type	P mar				m	
of the panel re Refer to C-II						
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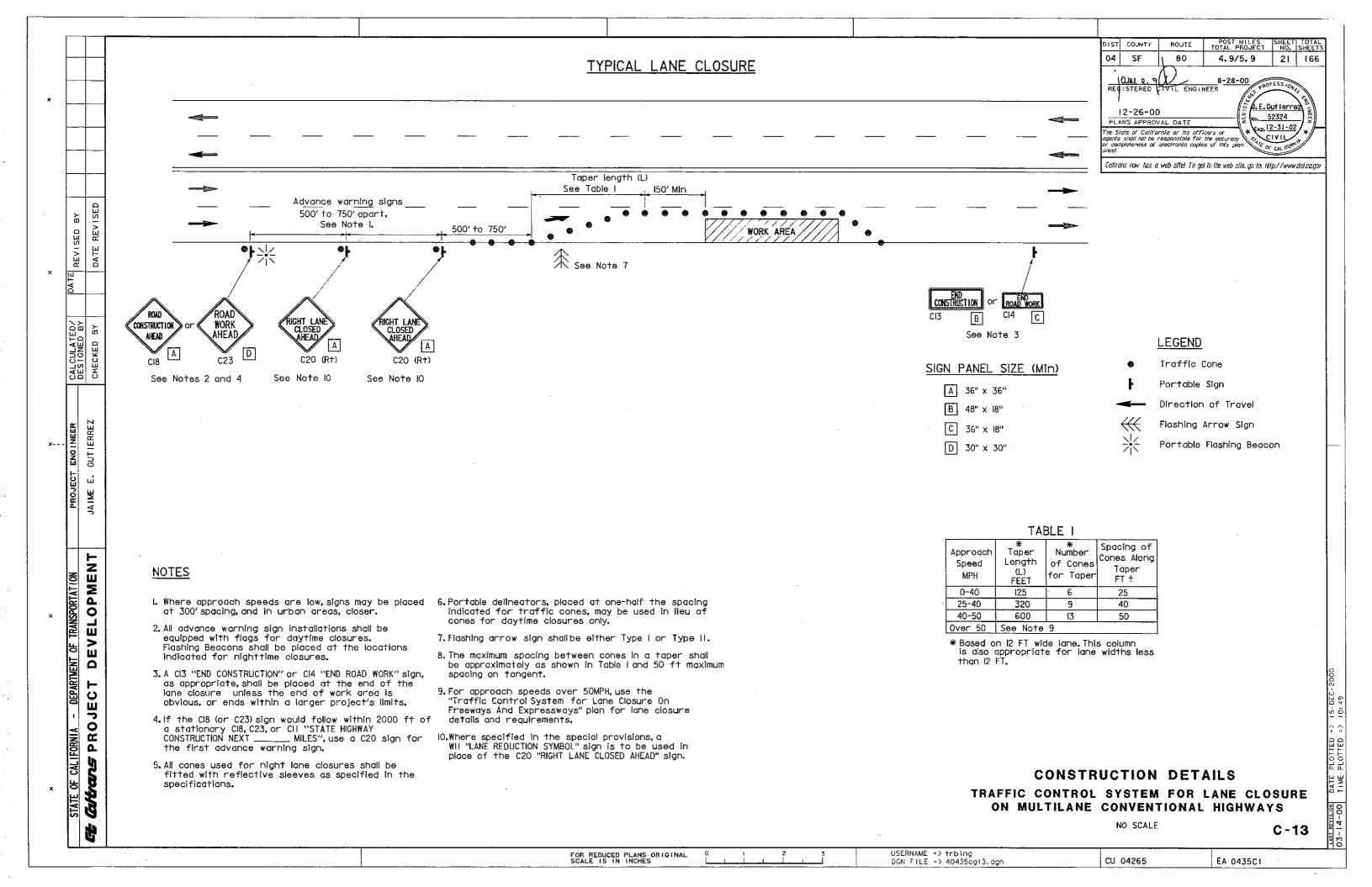


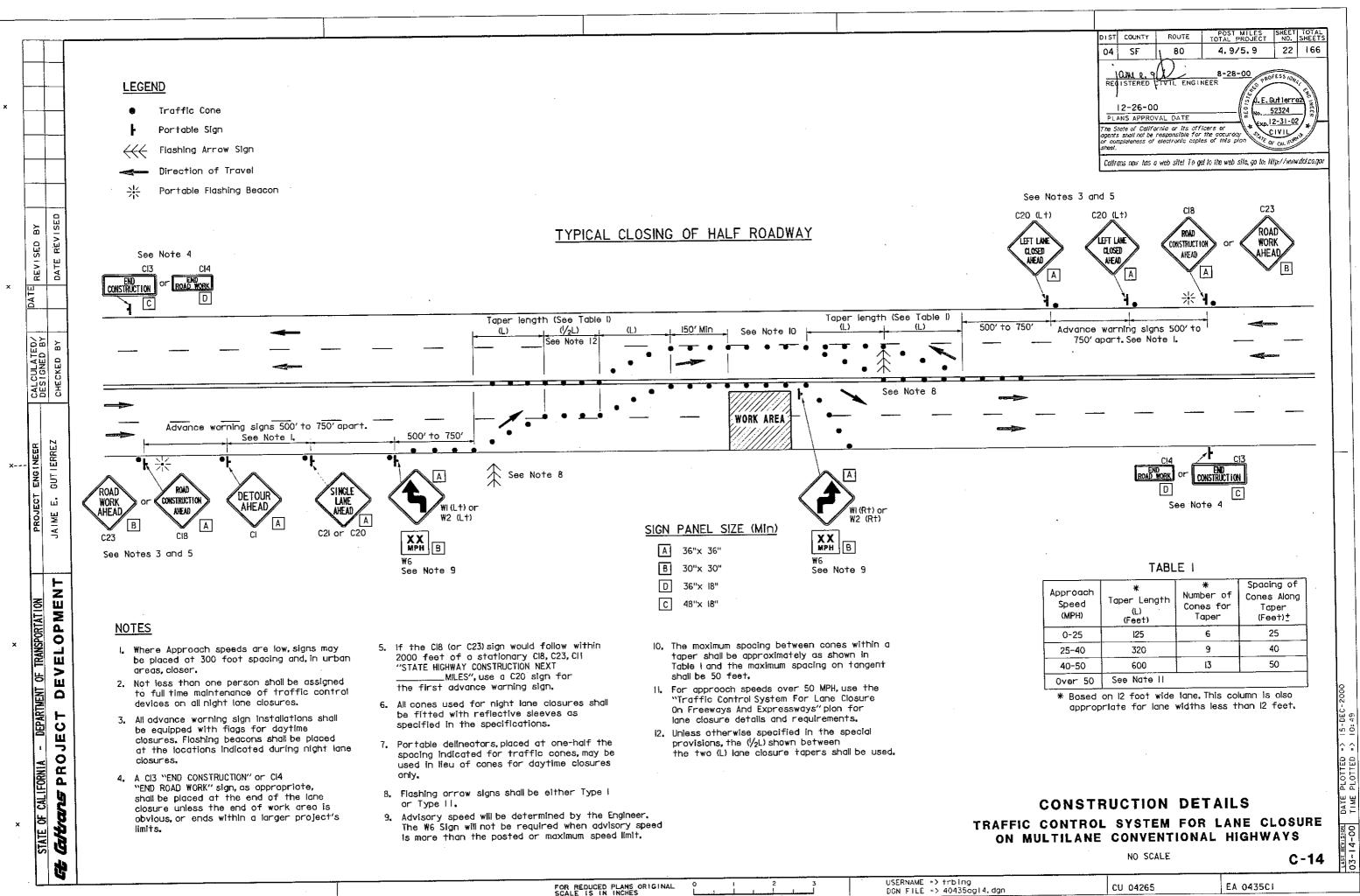
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ŤI	ES:						
1.	(XXX) Indicates so of sand in spacing is i the module.	pour base	nds far	each mod	tion and mass dule. Module r diameter of		
2.	All sand masses	are	naminal,				
3.	The temporary shall be used on on one side of Array 'TSC', a s or fill slope) is cushion array t	iy in the olid requ	location temporo backup (jired alo	ns where iry crash wall, bar ng the b	there will be cushion arra rier or a toe ackside of th	traft y. Fo of cu e cra	ic r ut
4.	If the fixed obj railing is less th way, a temporar	han I	5 feet f	from the	edge of trav		
5,	Temporary crasi the traveled wa		shion ar	rays sha	il not encroaci	n on	
6.	Arrays for medi shown on this p	ian s				iils	
7.	Place the Type the panel rest					n of	
8.	 the panel rest upon the pallet and faces traffic. 8. For approach speed of greater than 55 mph and shoulder widths less than 8 feet, oppropriate crash cushion protection shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion protection shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer. 						
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Intersection road		AND CA	Se	ae Note 3		
oad	<u> </u>	2'-(Min	<u>o"</u>	ECTION F-F See Note 3		
			<u>2'-0"</u> Min		affic de only	
3						
fill. See Section F- Attach units to de		slabs whe	en require	ed by Bridge F	'ians.	
Where Temporary F radii that are too joints, the railing i	seve s to	ere ta a	connect p	anels with bolt	ed	
All 4 inch gaps at 1 base with #8 x 10" See Section G-G.	dowe	ior∥ø	pin each	alde of jaint		
For end treatment see Project Plans (or Sp	oecial Pr	ovisians.			
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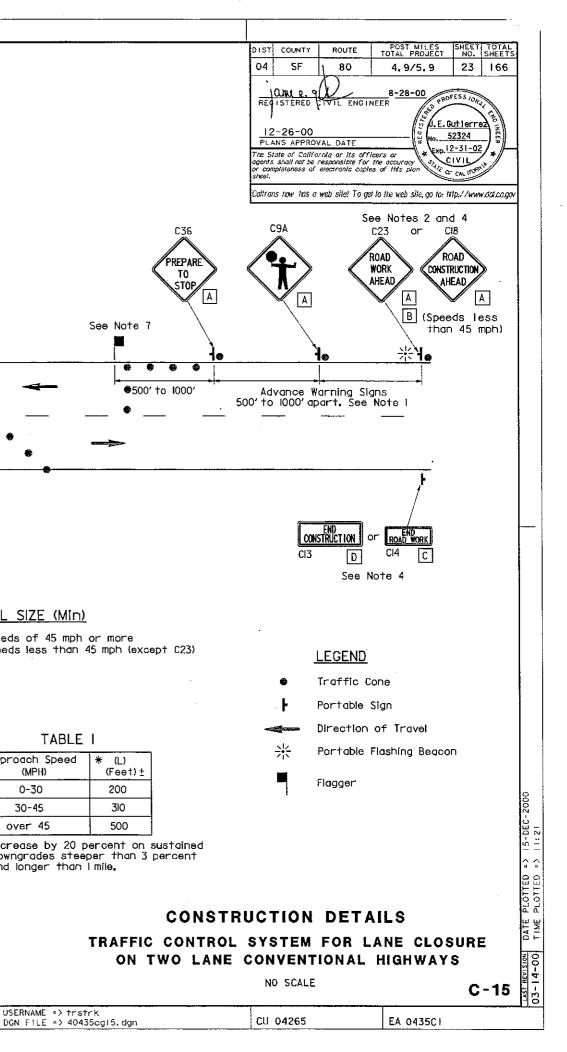
Approach Speed (MPH)	* Taper Length (L) (Feet)	* Number of Cones for Taper	Cones Along Taper (Feet) <u>+</u>
0-25	125	6	25
25-40	320	9	40
40-50	600	13	50
Over 50	See Nate II		

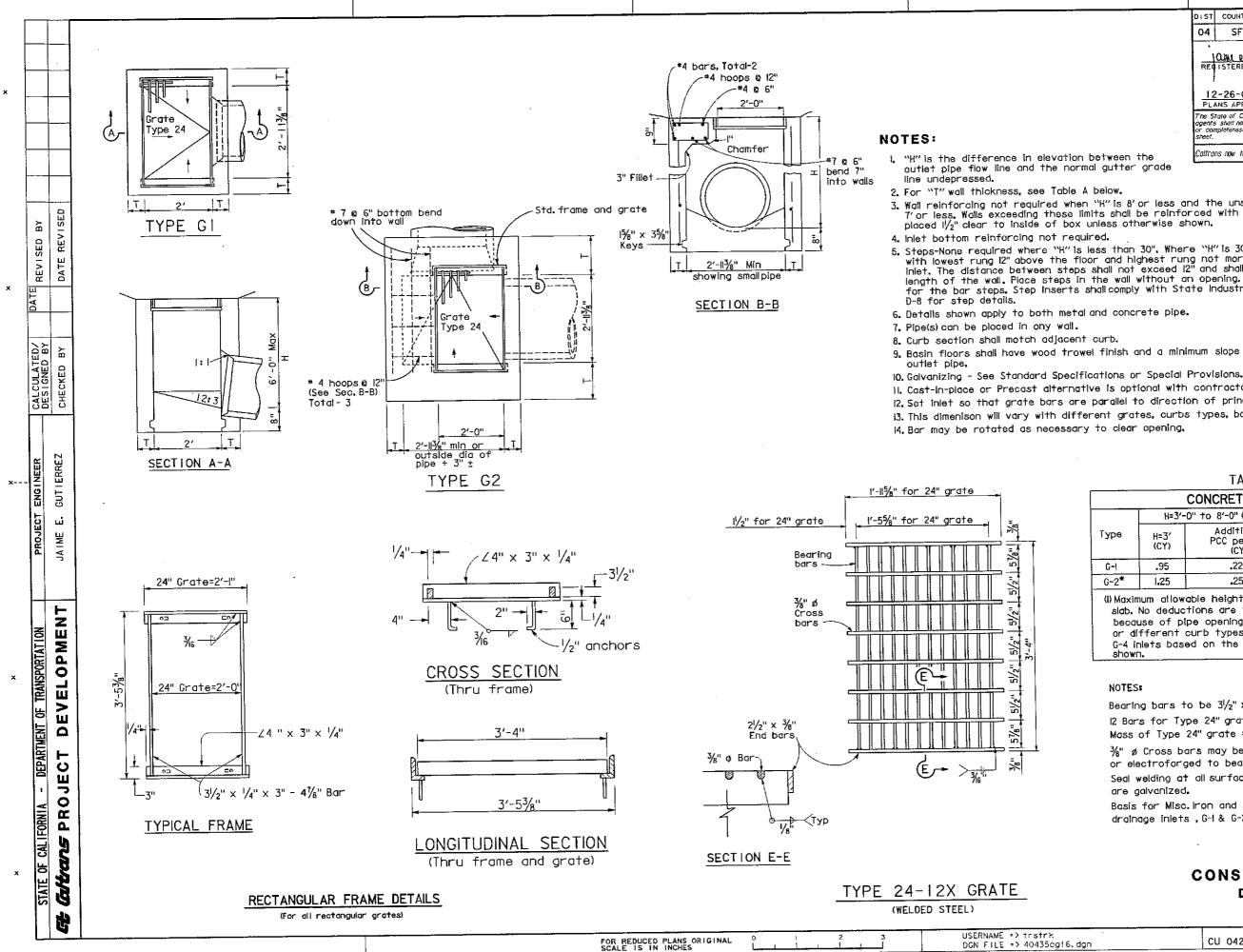
TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL C37 TRAFFIC REVISED CONTROL Β See note 3 WAIT FOR REVISED CI3 PILOT CAR DATE CONSTRUCTION END Road Work Α See Note 9 DATE Cones 100' Max spacing CALCULATED/ DESIGNED BY (L) Variable (See Table I) Å Closure: Cones or barricades CHECKED . Advance Warning Signs WORK AREA 500' to 1000' apart. See Note I 500' to 1000' ●→米 Optional Taper (100' Max) GUT I ERREZ See Note 7 N. ROAD ROAD PREPARE LANE WORK CONSTRUCTION T0 CLOSED ய AHEAD STOP JA IME ₿ A A A A 697 C36 C23 C30 See Note 8 C18 SIGN PANEL SIZE (MIn) B (Speeds less See Notes 2 and 4 than 45 mph) 48"x 48" - Speeds of 45 mph or more 36"x 36" - Speeds less than 45 mph (except C23) A DEVELOPMENT NOTES B 30"x 30" TAT I ON 6. Portable delineators, placed at one-half the 1. Where approach speeds are low, signs may C 36"× 18" spacing indicated for traffic cones, may be used be placed at 300 foot spacing, and in urban In lieu of cones for daytime closures only. D 48"x 18" areas, closer. 2. All advance warning sign installations shall 7. Additional advance flaggers may be required. Flagger TABLE I station for work at night shall be illuminated as noted in Section 5-07 of the current edition of be equipped with flags for daytime closures. Approach Speed Flashing beacons shall be placed at the * (L) the "Manual of Traffic Controls" published by the Ь (MPH) locations indicated during night lane closures. State of California, Department of Transportation. MENT 0-30 3. A CI3 "END CONSTRUCTION" or CI4 "END ROAD WORK" 8. Place C30 "LANE CLOSED" sign at 500'-1000' intervals sign, as appropriate, shall be placed at the end 30-45 throughout extended work areas. They are optional **ART** ⊢ of the lane control unless the end of work area If the work area visible from the flagger station. ß over 45 PROJEC is obvious, or ends within a larger project limits. 9. When a pilot car is used, place a C37 * Increase by 20 percent on sustained 4. If the CI8 (or C23) sign would follow within 2,000 downgrades steeper than 3 percent and longer than 1 mile. "TRAFFIC CONTROL-WAIT FOR PILOT CAR" sign. feet of a stationary CI8, C23, or CII "STATE HIGHWAY CONSTRUCTION NEXT _____ MILES", use a **CAL I FORNI** C9A sign for the first advance warning sign. Gltrans 5. All cones used for night lane closures shall be illuminated traffic cones or fitted with 13" R reflective sleeves as specified in the specifications. 뷥

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

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	DIST	COUNTY	ROUTE	POST MILES	SHEET TOTAL NO. SHEETS	
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between the	Caltrons now has a web slie! To get to the web site, go to: http://www.dot.ca.gov					
ial gutter grade						
below. "H" is 8' or less nits shall be reinf	orced	ie unsup with #4	ported wi bars @ 18	dth or length "± centers	is	

5. Steps-None required where "H" is less than 30". Where "H" is 30" or more, install steps with lowest rung 12" above the floor and highest rung not more than 6" below top of inlet. The distance between steps shall not exceed 12" and shall be uniform throughout the inlet. length of the wall. Place steps in the wall without an opening. Steps inserts may be substituted for the bar steps. Step inserts shall comply with State Industrial Safety requirements. See

9. Basin floors shall have wood trowel finish and a minimum slope of 12:3 from all directions toward

il. Cast-in-place or Precast alternative is optional with contractor, See Standard Specifications. 12. Set inlet so that grate bars are parallel to direction of principal surface flow. 13. This dimenison will vary with different grates, curbs types, box width and wall thickness.

		TADLE A		
		CONCRETE QUA	NTITIES	
	H=3'-I	0" to 8'-0" (T=6")	H=8'-1	" to 20'-0" (T=8")
⊺уре	H=3' (CY)	Additional PCC per ft (CY)	H=8'-I" (CY)	Addītional PCC per ft (CY)
G-!	.95	.220	(1)	(1)
G-2*	1.25	.257	3.45	.360
slab. beca or di	No deduc use of pi (fferent o nlets base	able height 6'-0".T« tions are to be m pe openings, differ curb types, *Quan ad on the minimum	ade to th rent floor tities for	ese quantities alternatives Type G-2 and

TABLE A

NOTES:

Bearing bars to be $3\frac{1}{2}$ " x $\frac{3}{8}$ " bars on $1\frac{3}{8}$ " centers. 12 Bars for Type 24" grate Mass of Type 24" grate = 192 lbs 3%" ø Cross bars may be fillet welded, resistance welded or electroforged to bearing bars. Seal welding at all surfaces not required when grates are galvanized. Basis for Misc. Iron and steel, final pay masses for drainage inlets , G-1 & G-2 will be 239 lbs.

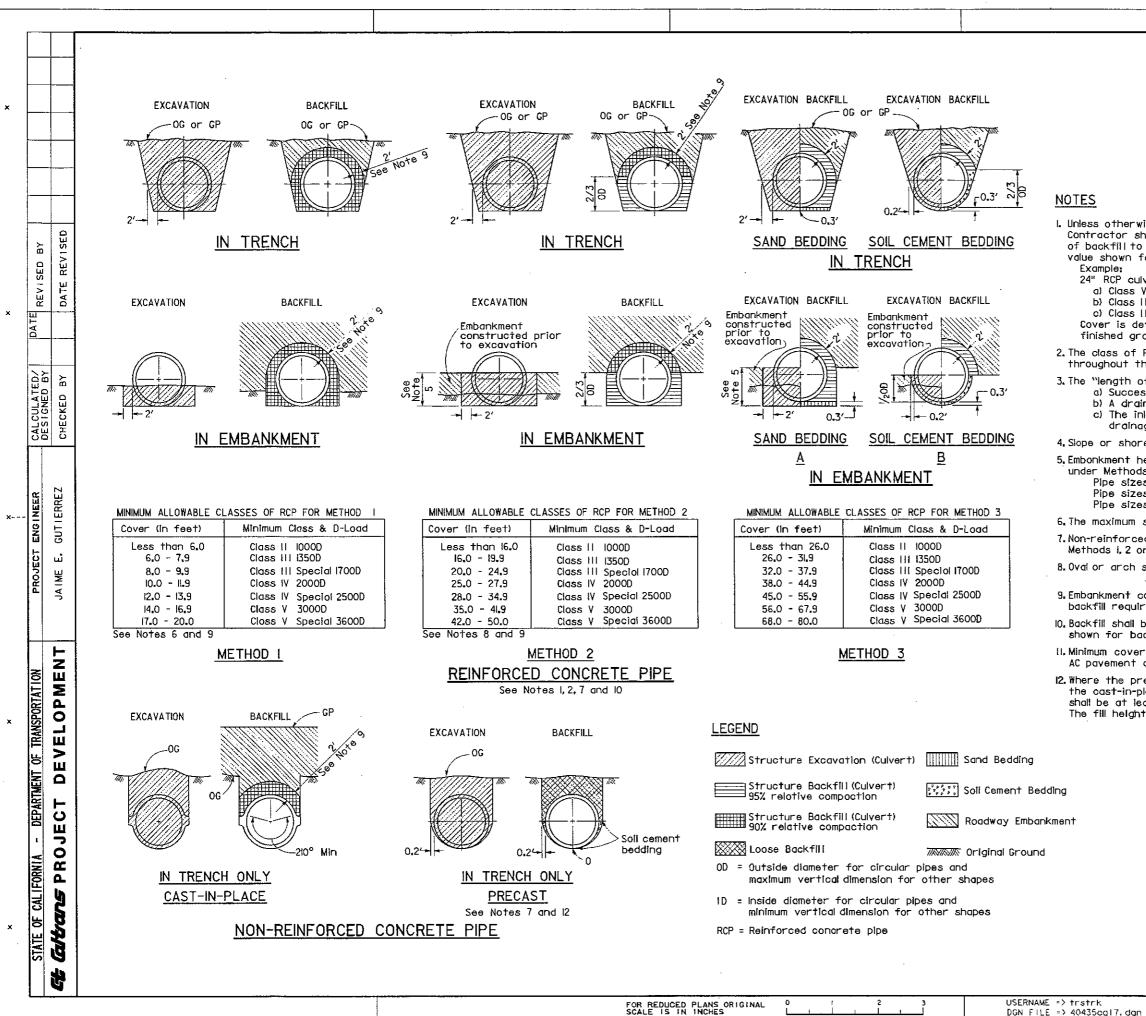
CONSTRUCTION DETAILS DRAINAGE INLETS

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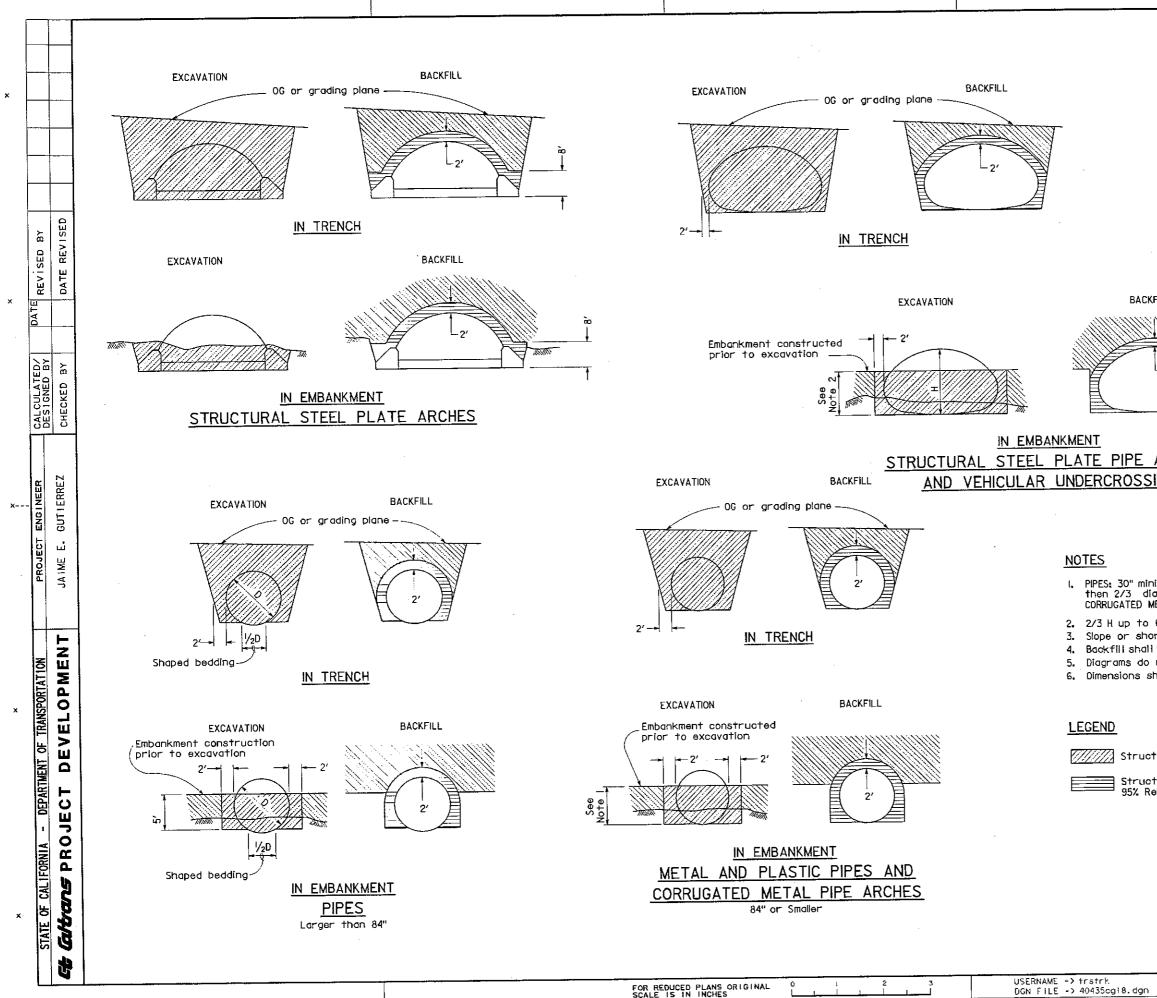
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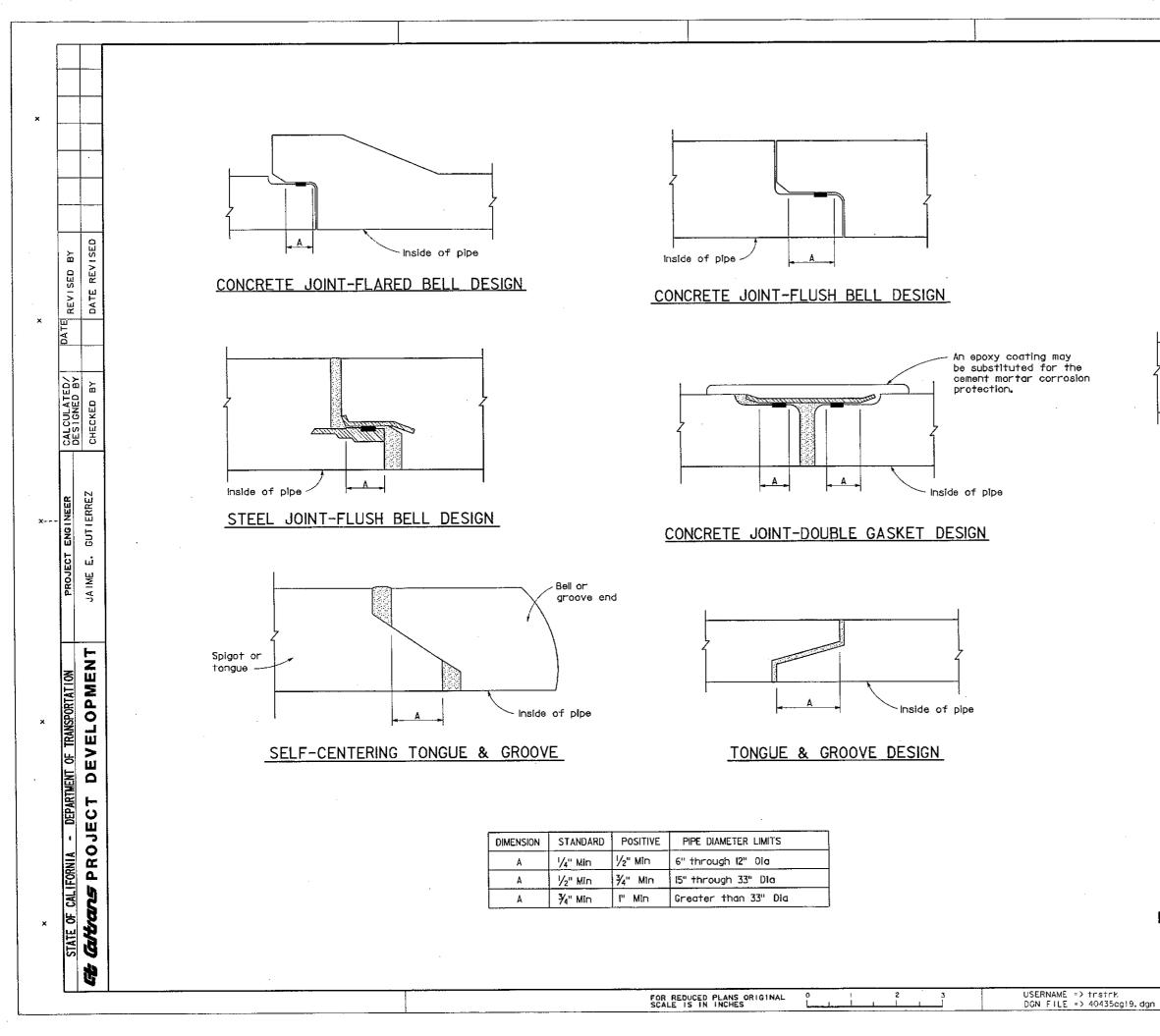
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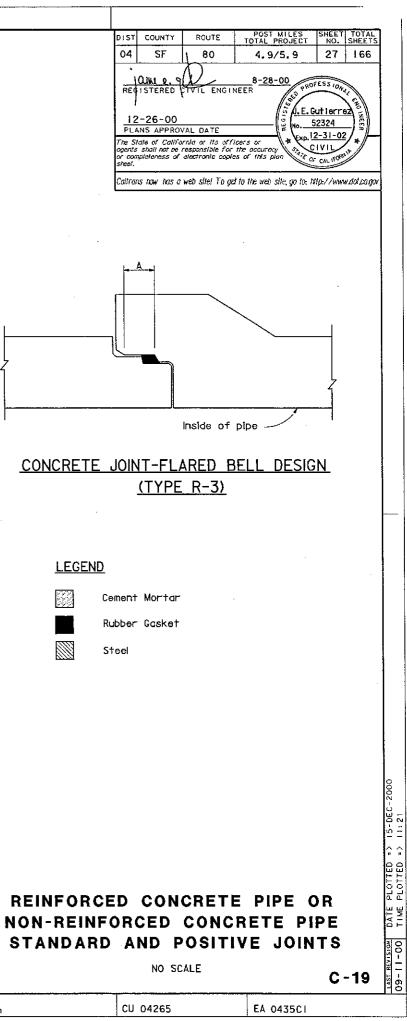


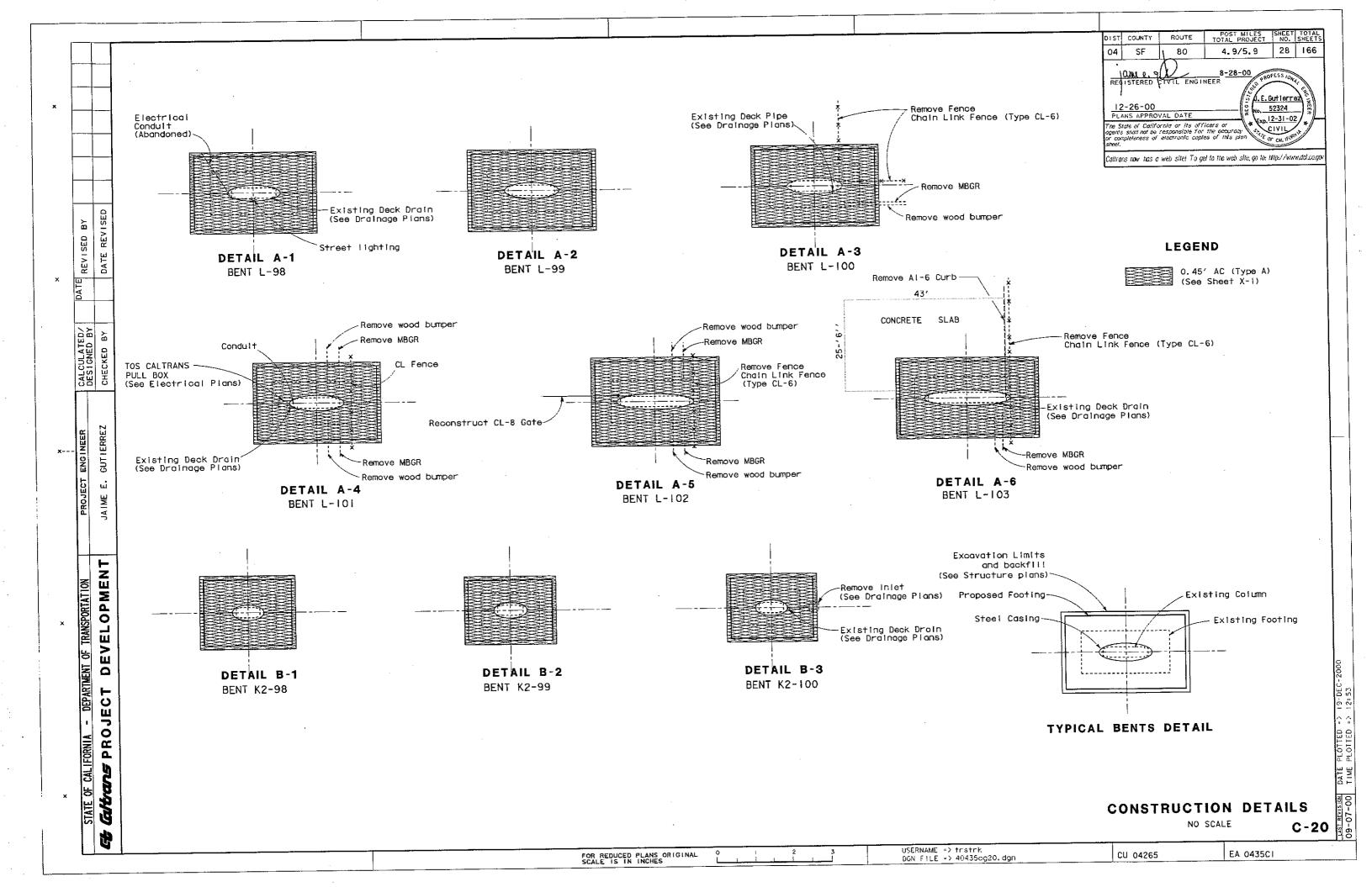
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Special or stronger Il or stronger with I or stronger with M fined as the maximu add within the length	Meth letha m ve	od 2 . od 3 . ortical di	istance fr	om top of pip	e to	
ode within the lengtl RCP, method of back	fill o	nd bedd			ə samə	
ne length of any giv	en c	ulvert.				
f any culvert" is de sive droinage struc- nage structure and et and outlet end a ge structures.	ture the	s (inlets, inlet or	, junction outlet er	boxes, headwa d of the culv	ert.	
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eight prior to excave 2 and 3A shall be of 5 12" to 42" ID = 30" 5 48" to 84" ID = 2/ 5 larger than 84" ID]s fo ' '3 OD	ollows;	stallation	of oll clases	of RCP	
size for all classes (of R	CP placed	d under Me	ethod is 78"	ID.	
d precast pipe sizes - 3.	s 36"	or small	ler may ala	so be placed u	Inder	
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ompaction requirement ement within 21/2feet	nts q t of	jovern a finishea	over the S d grade.	10% relative co	mpaction	
e placed full width o ckfill width or thickr						
over top of pipe o		lge of t	raveled wa	y shall be 2'	for	
and I' for PCC pavem ecast non-reinforce ace pipe, both the ist as great as tha allowed shall not ex	d coi wall f t sp	thickness ecified	s and the for the co	concrete stre st-in-place pip	ength Se.	
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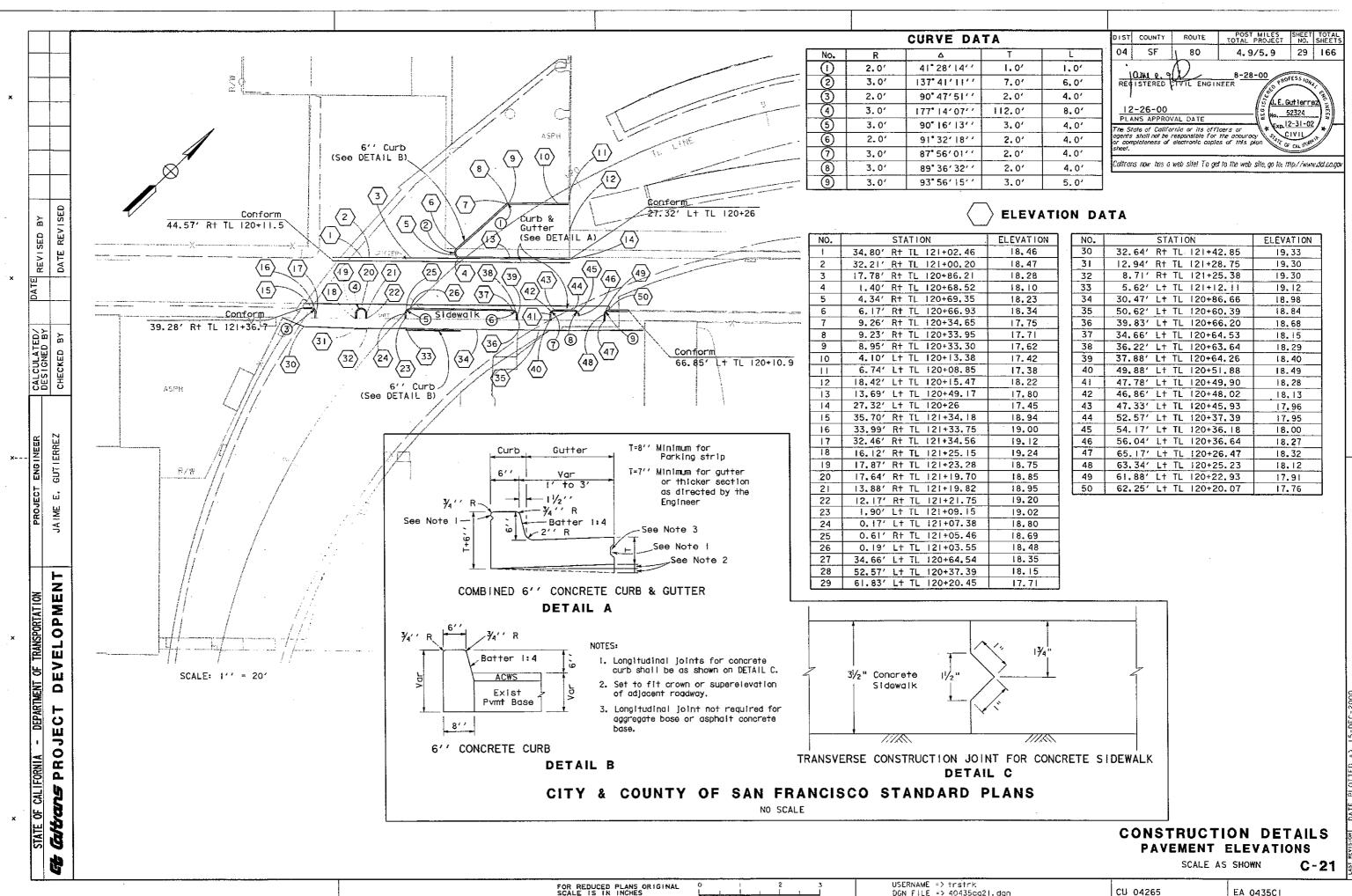


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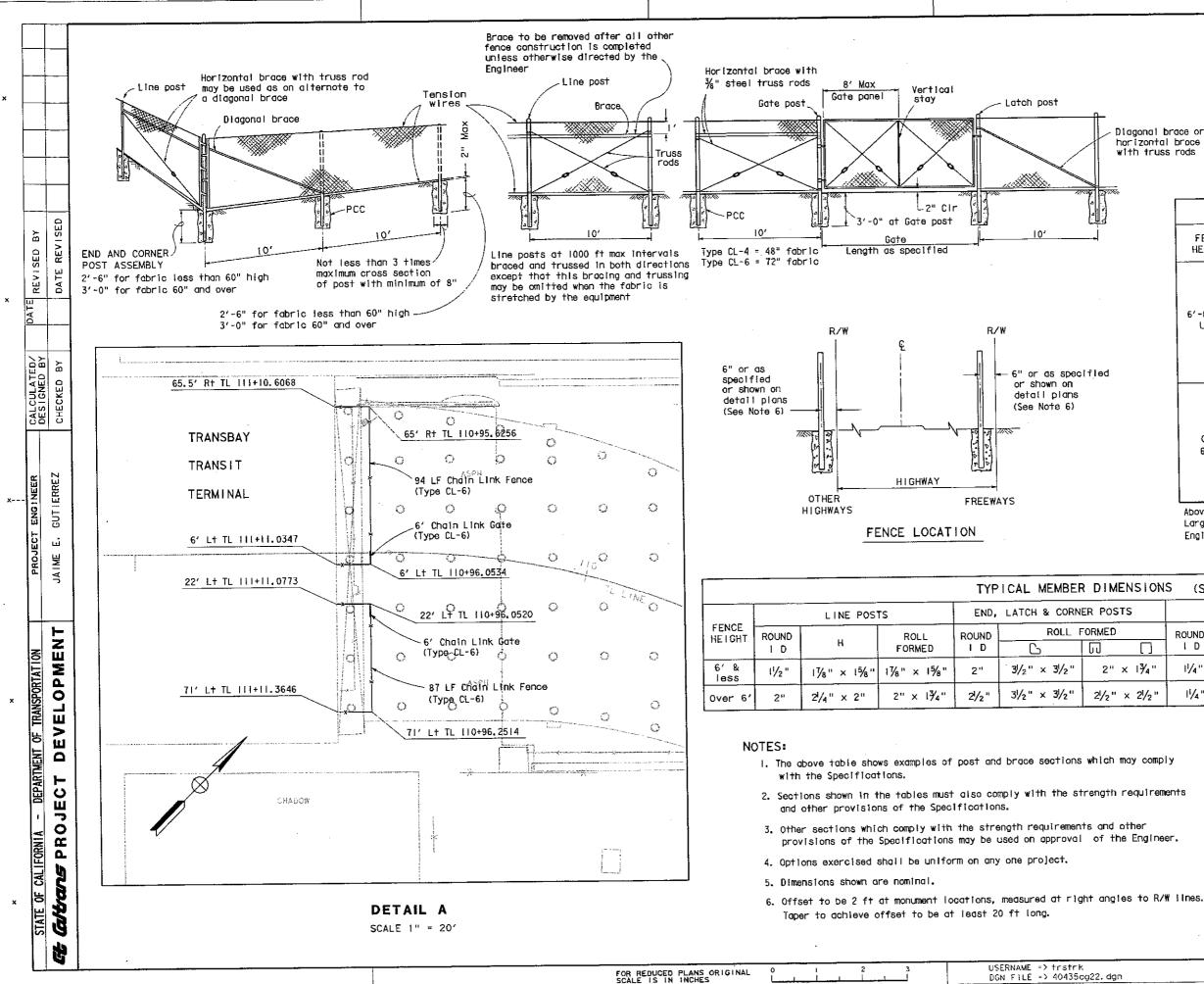






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18.95	50	62.25′ L†	TL 120+20.	<u> </u>	7.76	
18.85	49 50		TL 120+22.		17.91	
18.75	48		TL 120+25.		18.12	
19.24	47	65.17′L+			18.32	
19.12	46	56.04' L+		<u>i</u>	18.27	
18.94	44	52.57' L† 54.17' L†	TL 120+37. TL 120+36.		17.95	
17.45	43	47.33' Lt 52.57' Lt			17.96	
17.80	42	46.86' Lt	TL 120+48.	· •	18.13	
18.22	41	47.78' Lt			18.28	
17.38	40	49.88' Lt			18.49	
17.42	39	36.22' L+ 37.88' L+	TL 120+63.		18.29	
17.71	37		TL 120+64. TL 120+63.		18.15	
17.75	36		TL 120+66.		18.68	
18.34	35	50.62' Lt	TL 120+60.		8.84	
18.23	34	30,47′ L†	TL 120+86.	66	8.98	
18.10	33	5.62′ L†	TL 2 + 2.		19.12	
18.28	32		TL 121+25.		9.30	
18.47	31		TL 121+28		19.30	
18.46	30		TL 121+42.		9.33	
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GATE POST				
FENCE HEIGHT	GATE WIDTHS	NOMINAL 1 D	MASS PER FOOT	
	Up thru 6′	2/2"	4.95	
6'-0" and Less	Over 6' thru 12'	4"	10.79	
	0ver 12' thru 18'	5"	14.62	
	0ver 18' to 24' max	6"	18.97	
<u>`</u> _	Up thru 6'	3"	7,58	
Over 6′-0"	Over 6' thru 12'	5"	14.62	
	0ver 12' thru 18'	6"	18.97	
	Over 18' to 24' max	8"	28.55	

Above post dimensions and masses are minimums. Larger sizes may be used on approval of the Engineer.

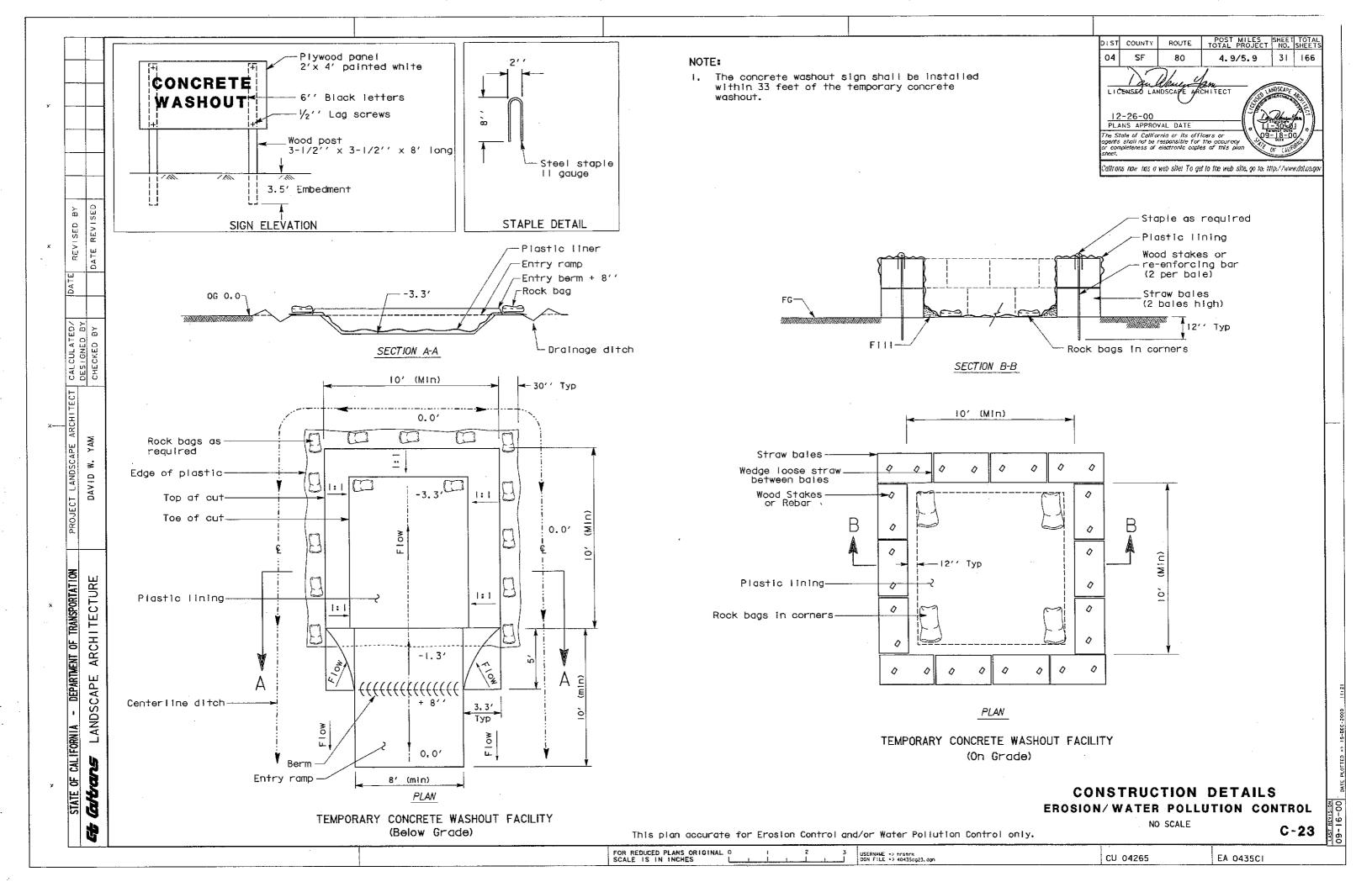
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" × 2 ¹ /2 "	۱ ^۱ /4 "	1½" × 15/16"	15/8" × 11/4"	1¾" × 1¼"	

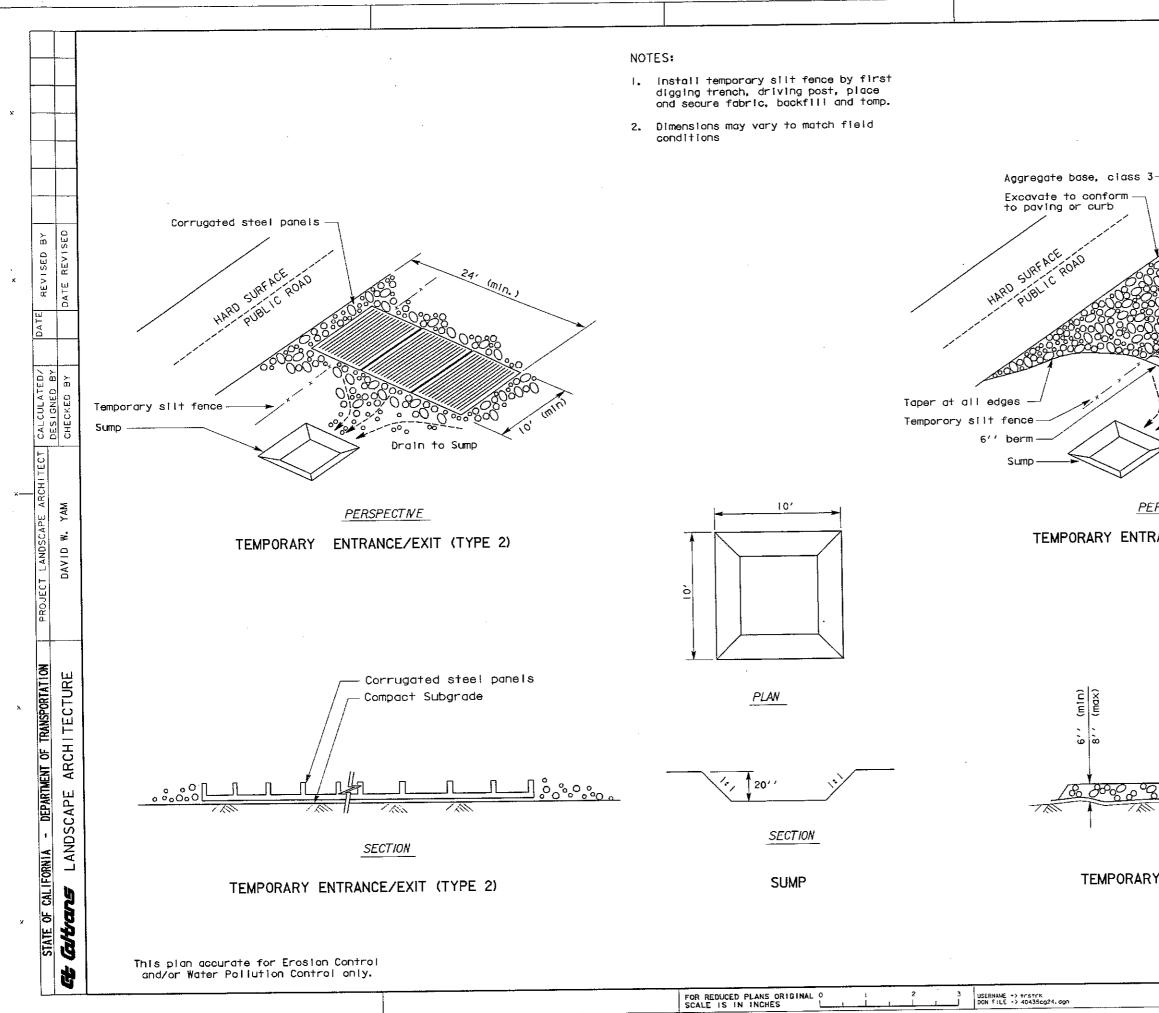
CONSTRUCTION DETAILS CHAIN LINK FENCE

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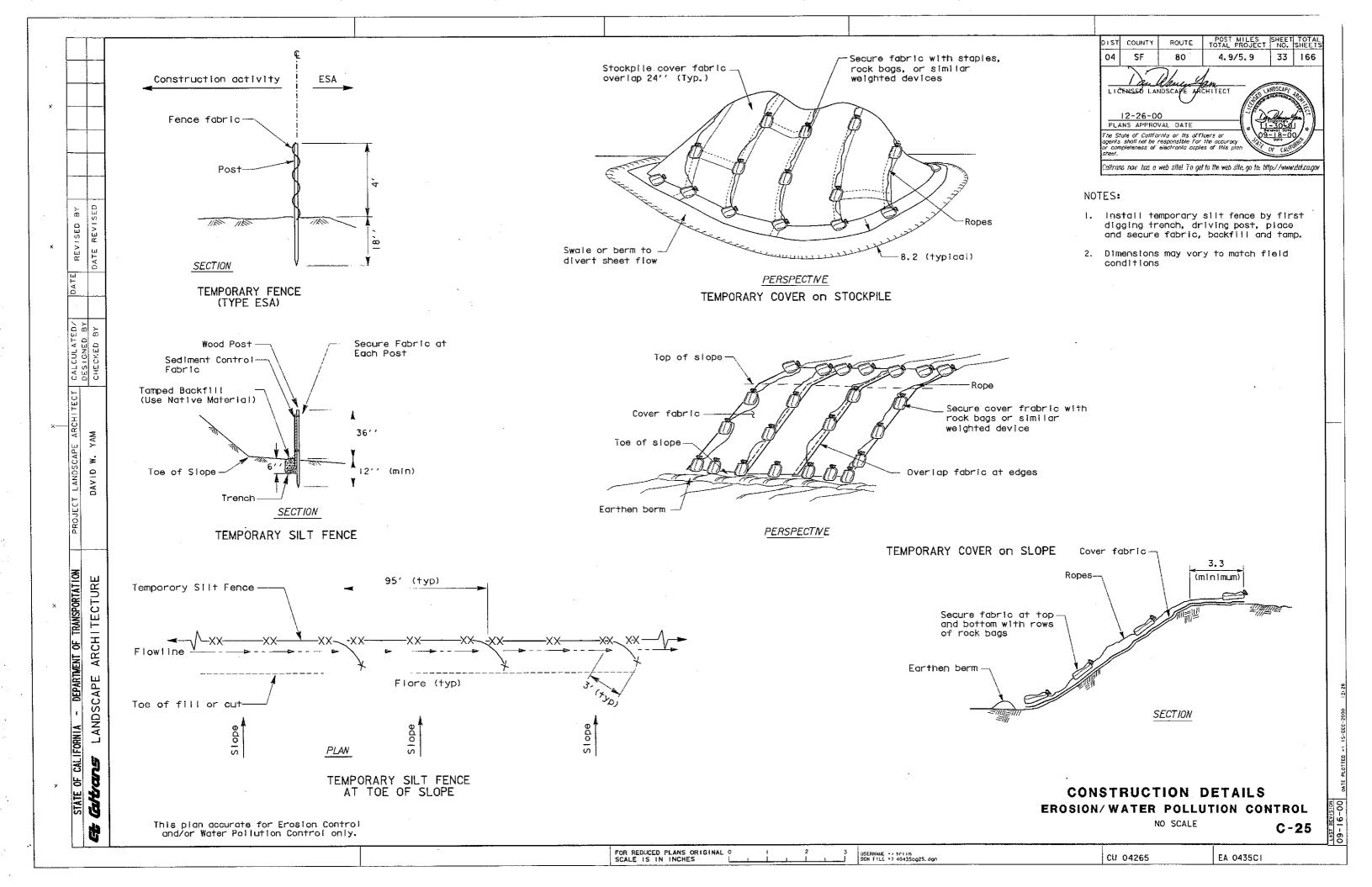
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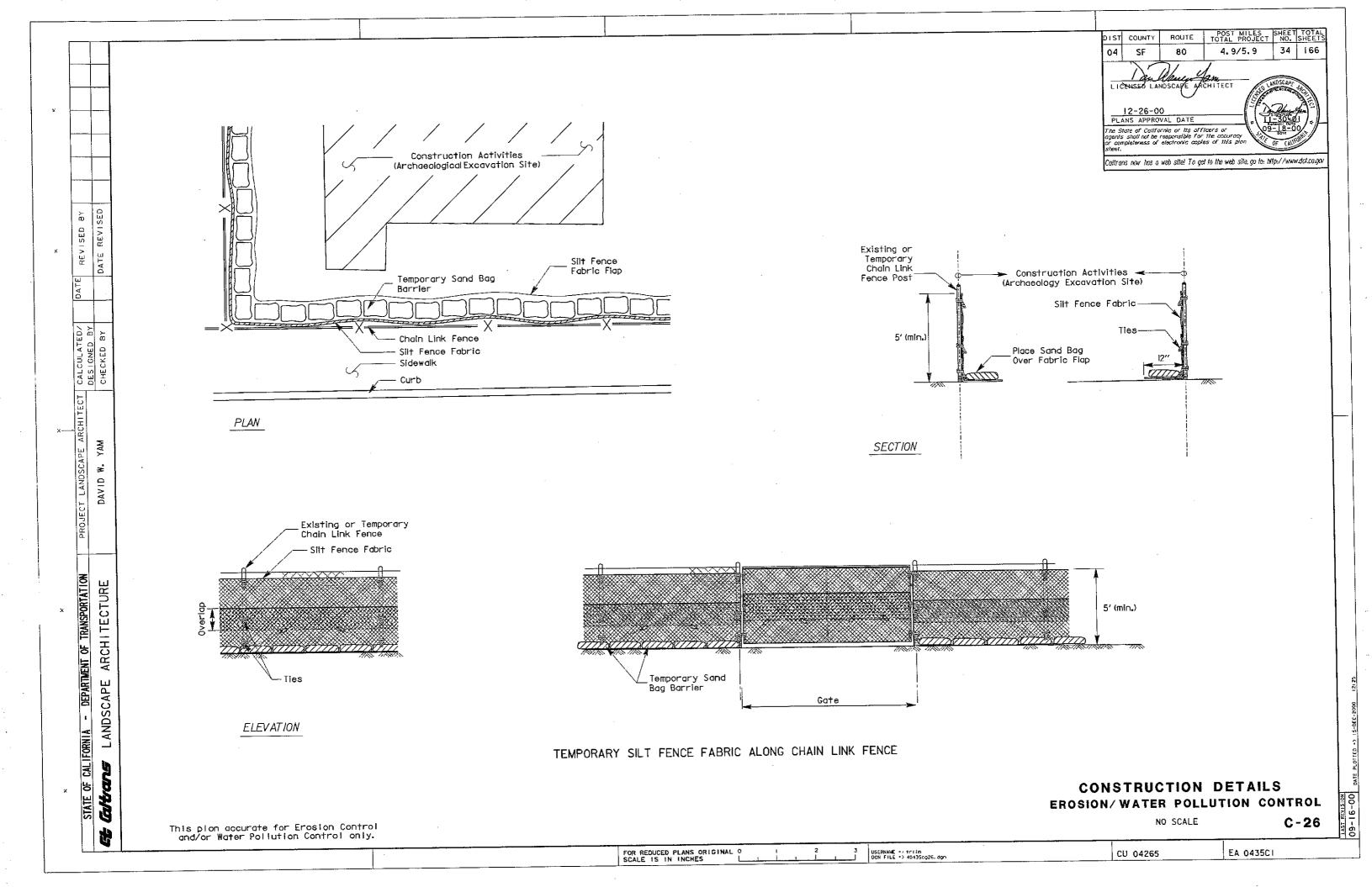
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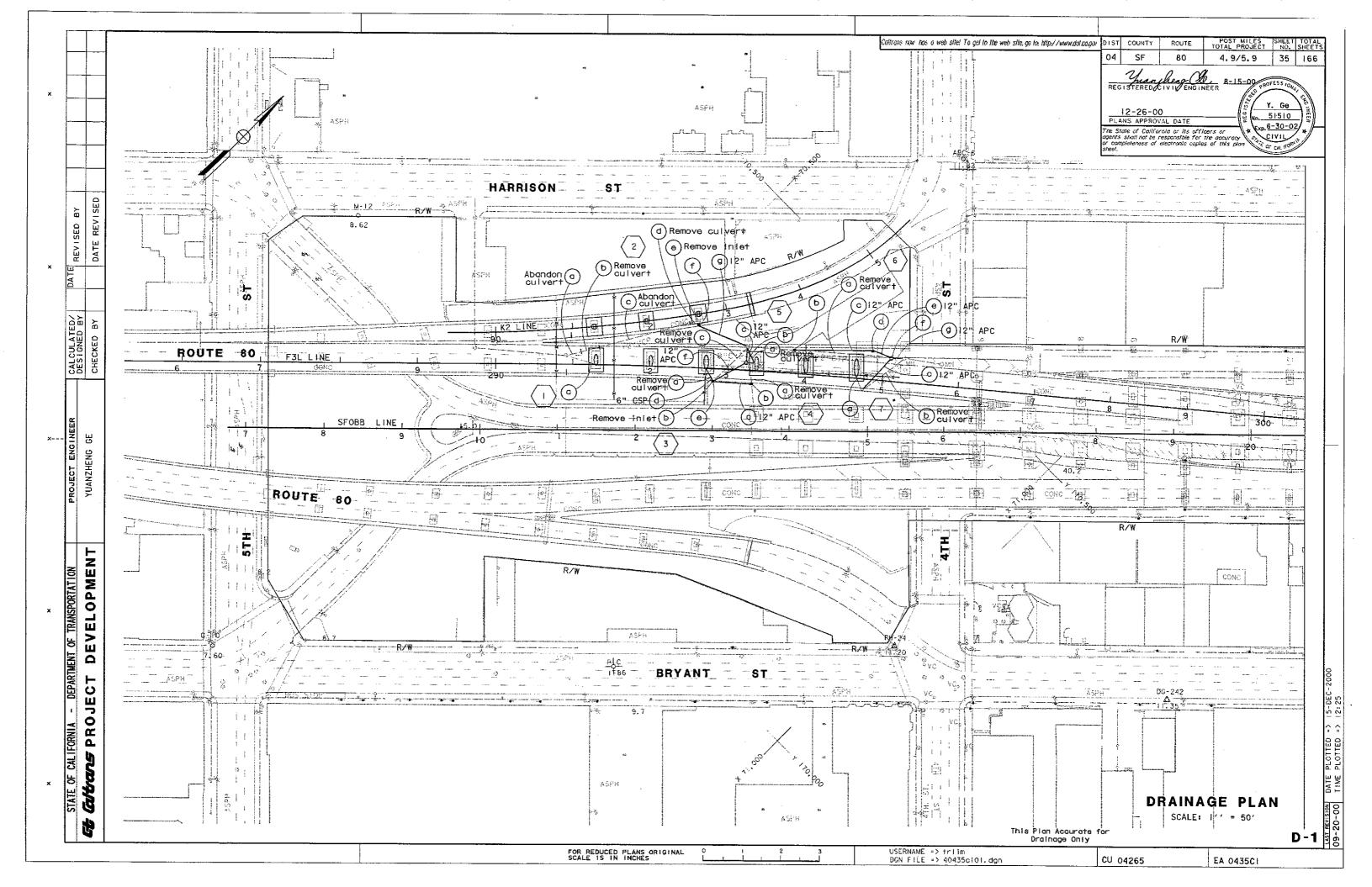


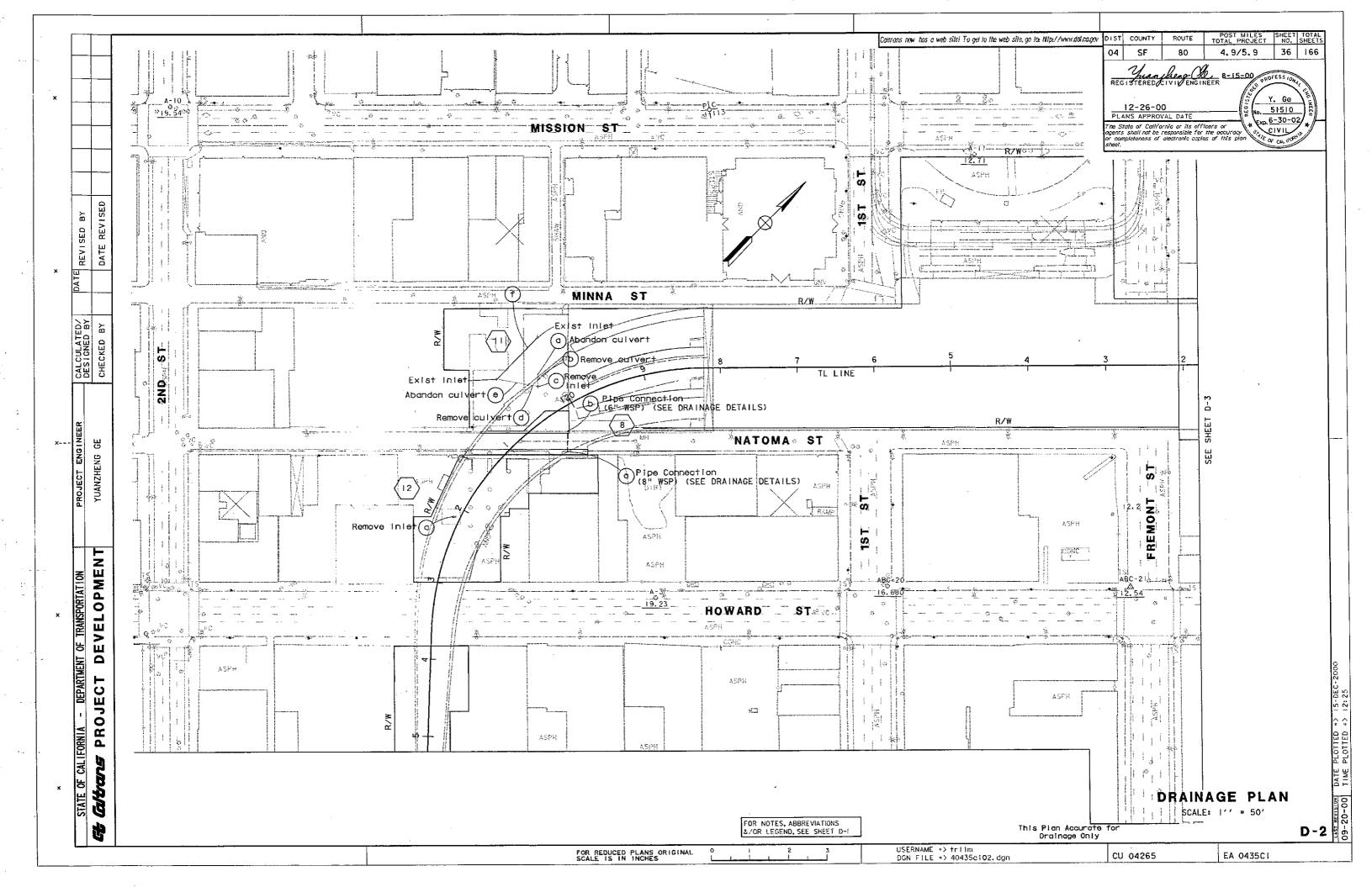


POST MILES SHEET TOTAL TOTAL PROJECT NO. SHEETS ROUTE DIST COUNTY 32 166 4.9/5.9 04 80 SF LICENSED LANDSCAPE ARCHITECT 12-26-00 PLANS APPROVAL DATE The Stole of California or its officers or opents stoli not be responsible for the accura or completeness of electronic copies of this i Caltrans now has a web sitel. To get to the web site, go to; http://www.doi.pa.gov 33. 20' radius (min.) Drain to Sump PERSPECTIVE TEMPORARY ENTRANCE/EXIT (TYPE I) Aggregate base, class 3 - Subgrade Enhancement Fabric Taper edges at I:I OG <u>~~~~~~</u> SECTION TEMPORARY ENTRANCE/EXIT (TYPE I) CONSTRUCTION DETAILS -00 EROSION/WATER POLLUTION CONTROL NO SCALE C-24 EA 0435C1 CU 04265









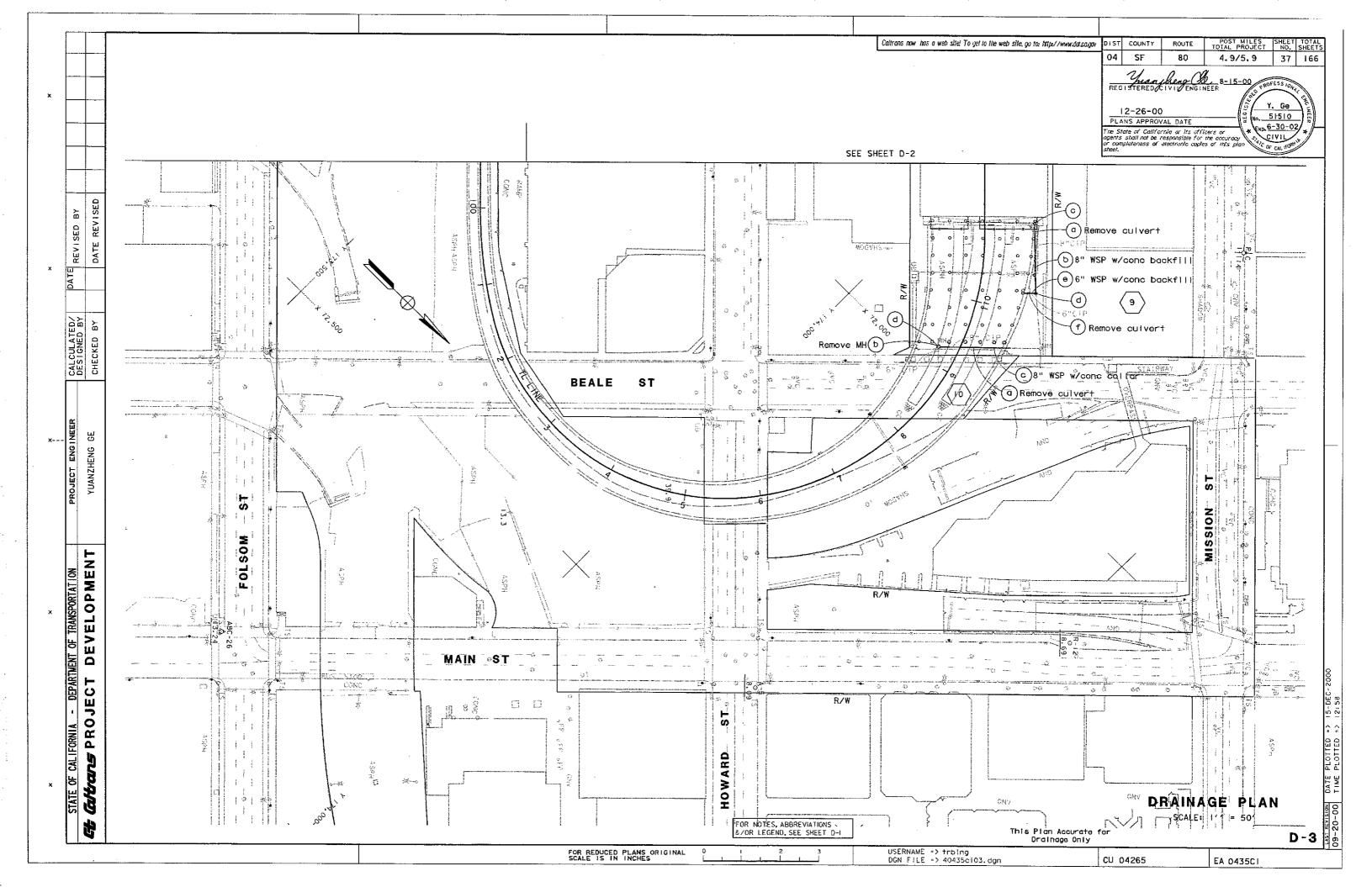
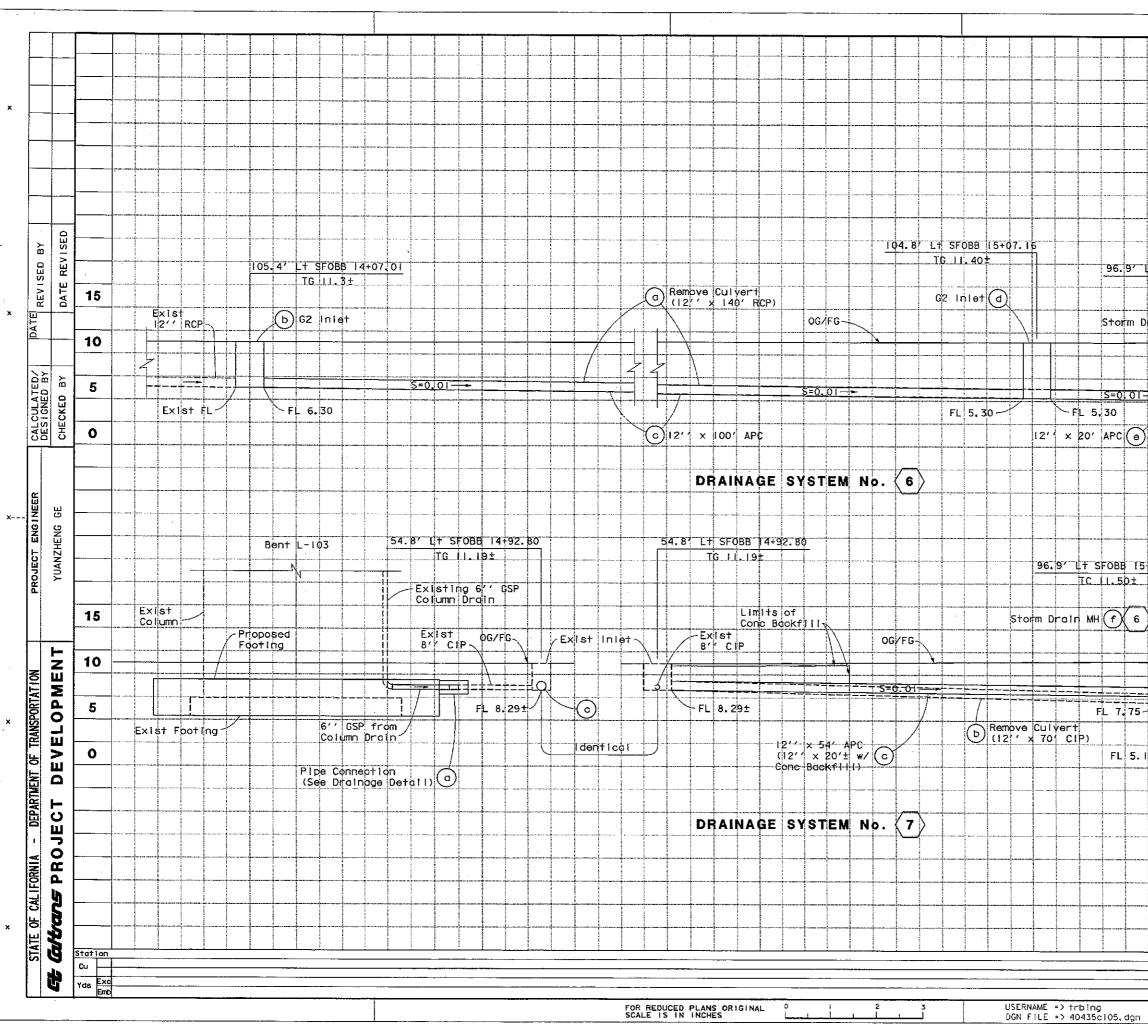


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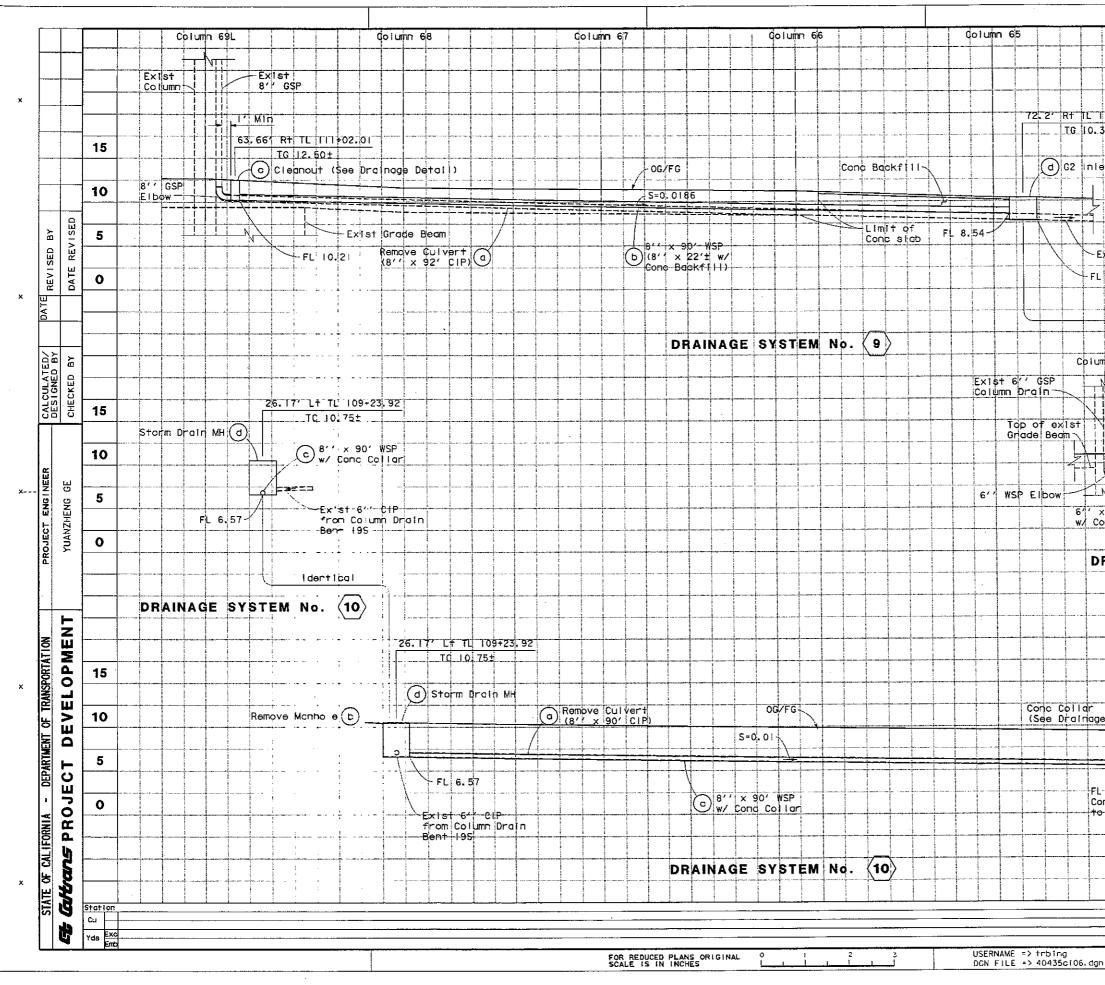
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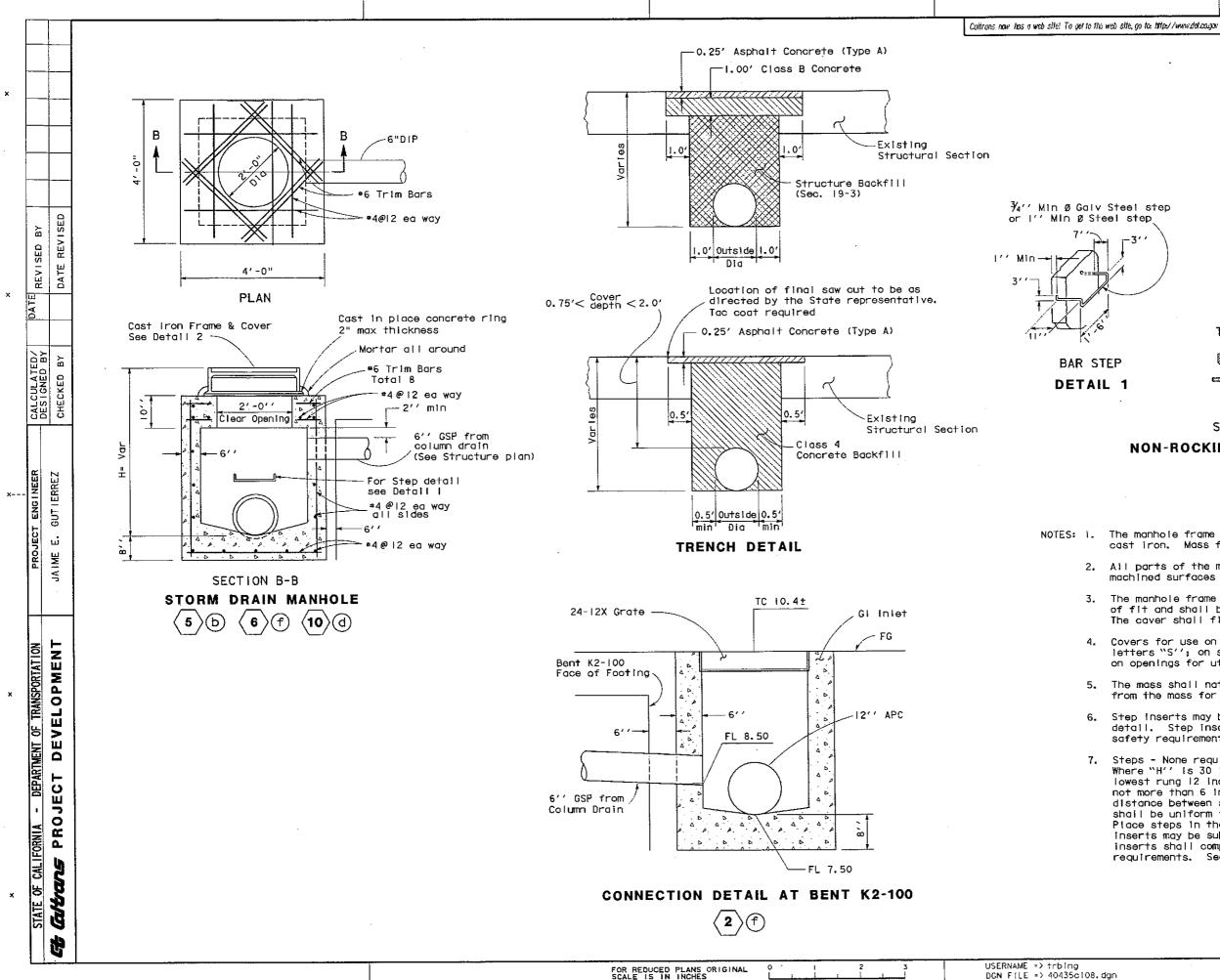


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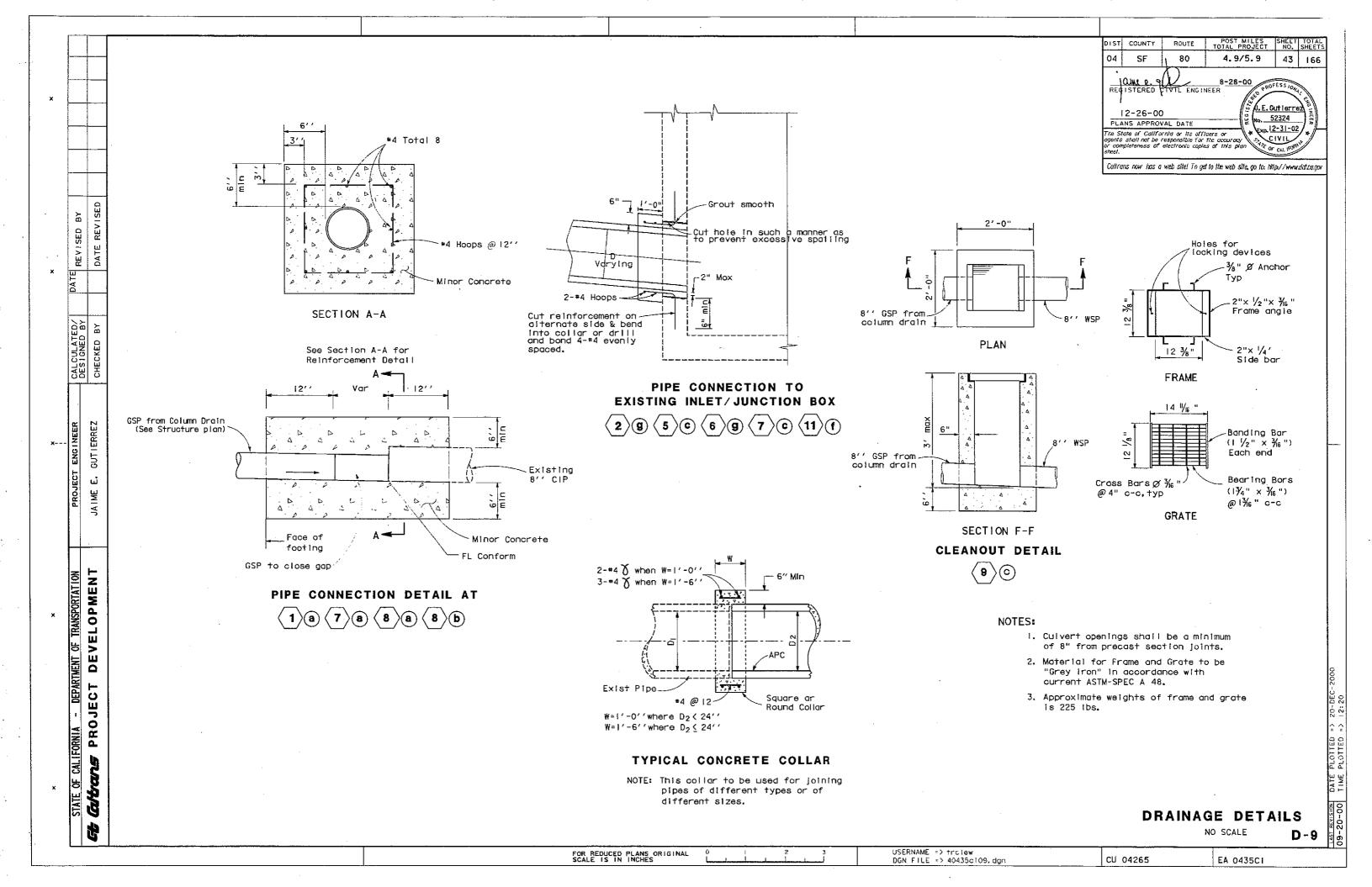
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POST MILES TOTAL PROJECT SHEET TOTAL NO. SHEET ROUTE DIST COUNTY 04 | SF 80 4.9/5.9 42 | 166 ION 2. 8-28-00 POFESSI CIVIL ENGINEER RECISTERED i.E.Gutierrez 12-26-00 52324 PLANS APPROVAL DATE Exp. 12-31-02 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this pice CIVIL OF CAL IFC TOP OF MANHOLE COVER 24'' Min dia clear opening SECTION THROUGH FRAME NON-ROCKING MANHOLE FRAME & COVER FOR DECKS DETAIL 2 NOTES: i. The manhole frame and cover shall be made of gray cast iron. Mass for payment is 435 lbs. 2. All parts of the manhole frame and cover except machined surfaces shall be coated with asphaltum paint. 3. The manhole frame and cover shall be tested for accuracy of fit and shall be marked in sets before delivery. The caver shall fit the frame snugly but not tightly. 4. Covers for use on sewer structures shall bear the letters "S''; on starm drain structures the letter "D''; on openings for utilities the letter "U". 5. The mass shall not vary more than ten percent from the mass for payment. Step inserts may be substituted for the standard step detail. Step inserts shall comply with State industrial safety requirements. 7. Steps - None required where "H'' is less than 30 inches Where "H'' is 30 inches or more, install steps with lowest rung 12 inches above the floor and highest rung 59 E(not more than 6 inches below top of inlet. The ய் ல் distance between steps shall not exceed 12 inches and shall be uniform throughout the length of the wall. Place steps in the wall without an opening. Step <u>ہ</u> (ITED TED inserts may be substituted far the bar steps. Step inserts shall comply with State Industrial Safety requirements. See Detail I for step details. DRAINAGE DETAILS NO SCALE D-8 CU 04265 EA 0435C1



Caltrans now has a web site! To get to the web

ABBREVIATI

S – Standard Joint

(N) - Non-pay, for i

APC ALLOWABLE PIPE MATERIALS

DESIGNATION	RCP		PLASTIC
DESTRICTION	SIZE	SIZE	TYPE
12'' APC (A)	1211	1211	Smooth internal wali

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DATE REVISED	GE SYSTEM NO.		ABANDON CULTERI	REMOVE CULVERT	REMOVE INLET	REMOVE MANHOLE	IOR CONCRETE	MINOR STRUCTURE)		MISCELLANEOUS IRON & STEEL	& GRATE, 24-12X	E & GRATE, U-45 (N)	WSP (0, 134" THICK)	(0.134"	ALTERNATIVE PIPE CULVERT	CONNECTION										(N)	JOINT CLASSIFICATION (N)	DESCRIPTION	
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FORM DC-0E-92-PF (REV. 3/88)

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3' L† SFOBB 14+07.	01 1	o 95,91	' Lt SFO	BB 15+31.58		6	a	
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' Lt SFOBB 14+87.3	6 to	o 54.23' o 95.78'	LT SFOE	B 14+92.84 B 15+48.87		7	a b	11
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DESIGNED BY	СНЕСКЕО ВҮ	DRAINAGE SYSTEM NO.		ABANDON CULVERT	REMOVE CULVERT	REMOVE	REMOVE	MINOR CONCRETE		MINOR CONCRETE (BACKFILL)	MISCELLANEOUS	FRAME & GRATE,	& GRATE,		6' , WSP (0. 134"	8' ' WSP (0.134"	I 2' ' AL TERNAT I VE		PIPE CONNECTION						andra she she an an an Andrain an Annai an Annai an Annai an Annai an Annai Annai Annai Annai Annai Annai Annai			MAX I MUM COVER (N)	HEICHT OF INTE.	PIPE JOINT CLA	DESCRIPTION	
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Rt TL 120+19.47 t	o 95.4	0' R†	TL 119+97	. 69	D-2	11	à
R+ TL 120+19.47 +	o 40.5	5′R†	TL 120+25	. 25			b
R† TL 120+25.25 R† TL 120+25.25 †	0 49 2	1' R+	TL 120+33	22			c d
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x	x		×	×
STATE OF CALLEORNIA - DEPARTMENT OF TRANSPORTATION	PROJECT ENGINEER	CALCULATED/	DATE REVISED BY	
		DESIGNED BY		
<i>Caltans</i> PROJECT DEVELOPMENT	JAIME E. GUTIERREZ	CHECKED BY	DATE REVISED	

ť

NOTES:

		LEGEND	
	DESCRIPTION	SYMBOL	OWNERSHIP
NOTES:			
 Existing utility locations are approximate only. Proposed or relocated utility positions may be other than shown. 	Water Fire Water	FWFW	PUC S.F. Water Department San Francisco Fire Department Bureau af Engineering and Water Sup
2. Location of utility facilities on the plans was	Irrigation System	—IS— — — IS—	Caltrans
obtained from owners' records and/or from State surveys.	Underground Duct System	-UDUD	PUC Hetch Hetchy Water and Power
	Electric	-EE-	Pacific Gas and Electric Co.
	Street Lighting		PUC Bureau of Light Heat and Power
	Traffic System	-TS	San Francisco Bureau of Traffic En
	MUNI Power Line (Overhead))	
	Telephone	TT-	Pacific Bell
	Telephone	-T	American Telephone and Telegraph C
	Fiberoptic Line	F/0	
	Telegraph	TETE	Western Union
	Gas	– G G	Pacific Gas and Electric Co.
	Sewer	-ss-	San Francisco Department of Public Bureau of Engineering
	Storm Drain		Caltrans
	Abandoned Storm Drain	· <i>+++++++++++++</i>	Caltrans
	Abandoned Systems	///	
	High Risk Utility	*	
	Pothole	8	
	Existing Column		
	Proposed Column	O	
	Soffit Light	©	
	Mercury/Sodium Light	Ж	
	Traffic Light	*	
	Traffic Signal	æ	
	Steel Pole	· · · · · · · · · · · · · · · · · · ·	
	Wood Pole		
	Gas Valve	- GV	
	Water Volve	- WV	

Controller

Drainage inlet

HP = High Pressure, LP = Low Pressure ...

Distonce from property line

Gas Pipe diameter .__

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

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⊠Dl X H/LP Y

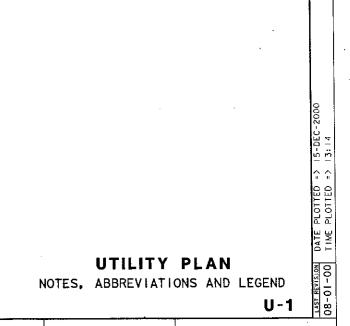
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	DIST COUNTY ROUTE POST MILES SHEET TOTAL TOTAL PROJECT NO. SHEET
	04 SF 80 4.9/5.9 46 166
OWNERSHIP	CUNL R. 9 B-28-00 REGISTERED TVIL ENGINEER
Water Department	12-26-00
sisco Fire Department FEngineering and Water Supply	PLANS APPROVAL DATE The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheel.
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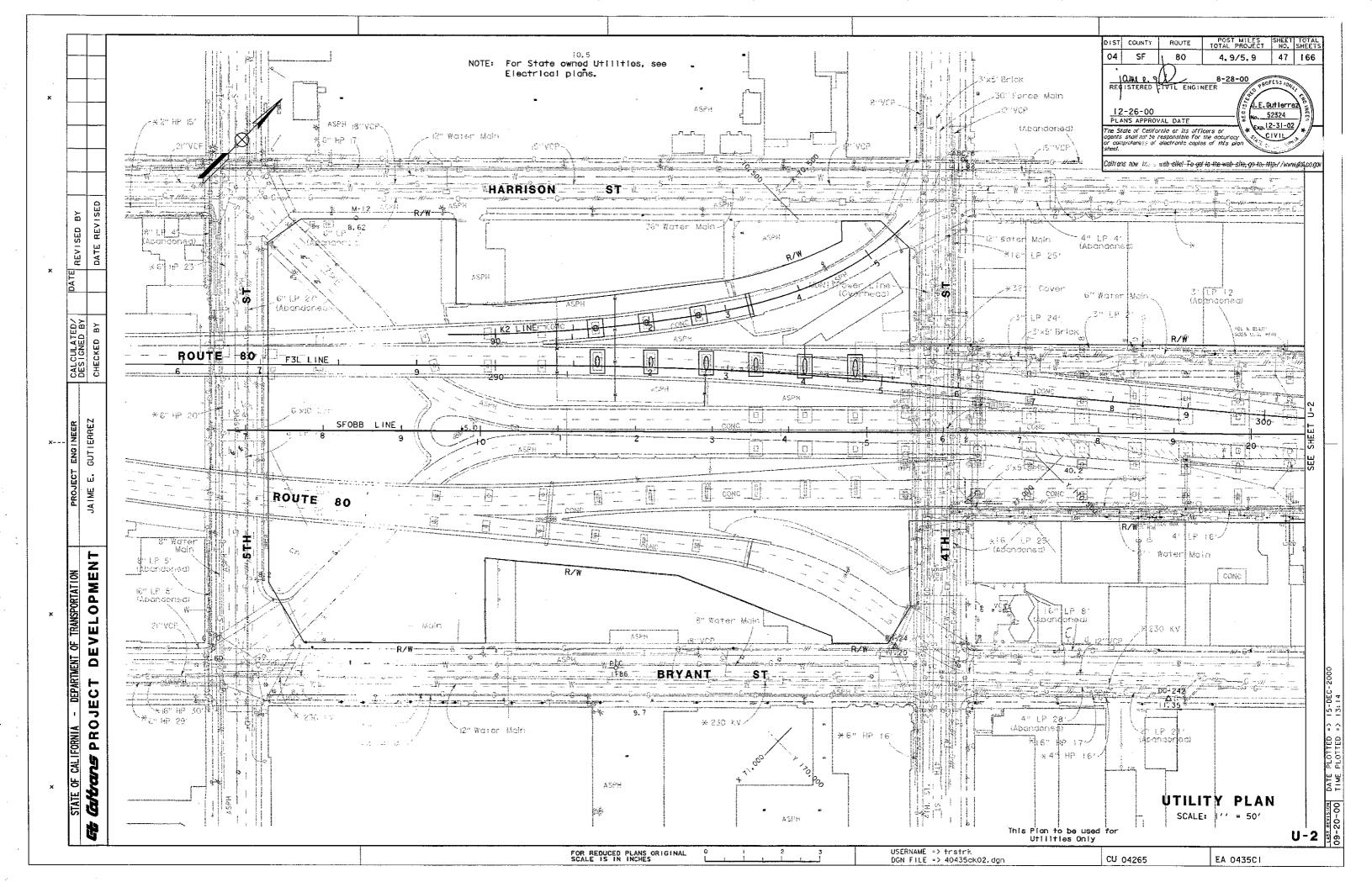
ABBREVIATIONS

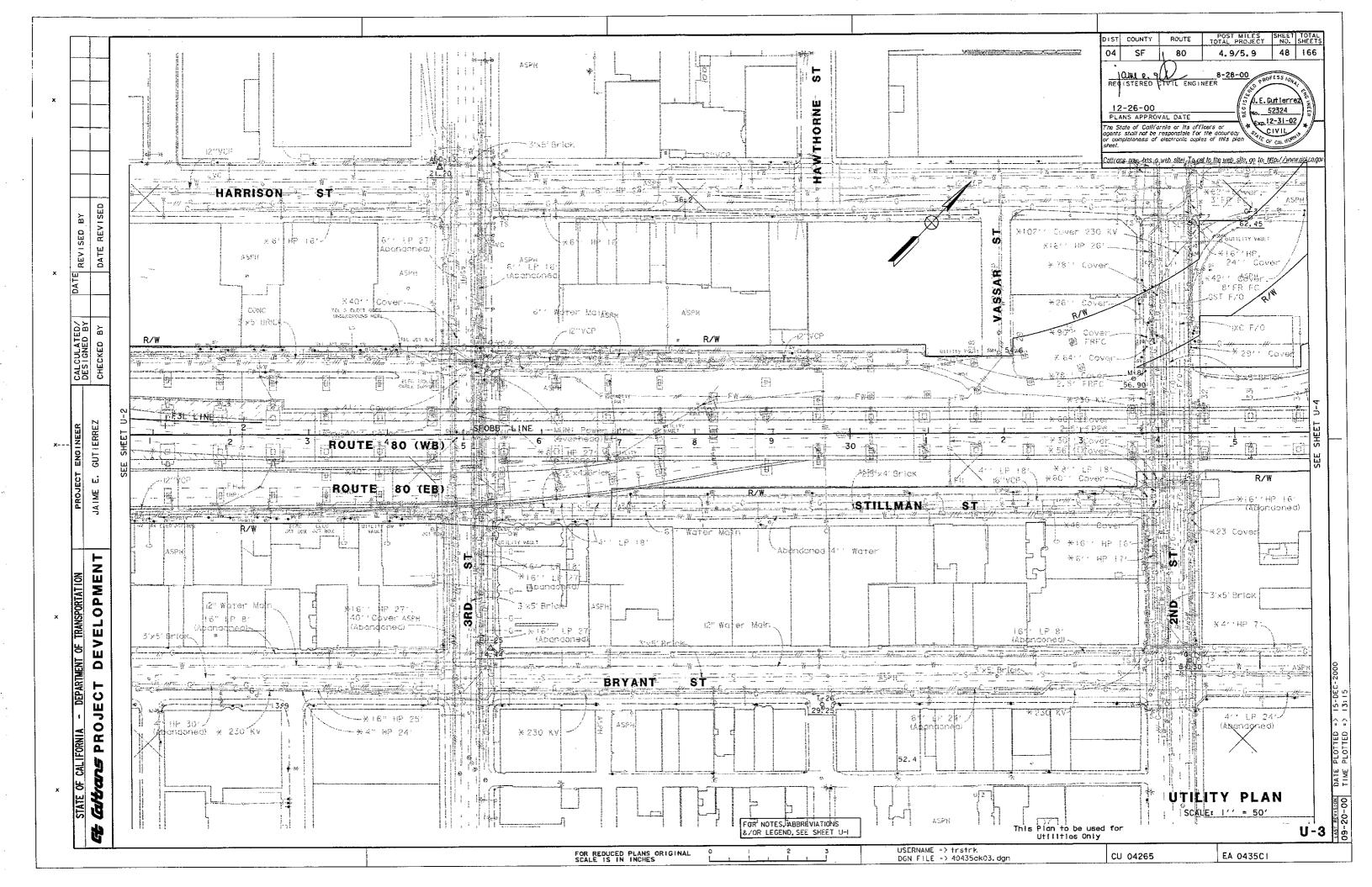
ureau of Light Heat and Power	СВ	Controller Box
rancisco Bureau of Traffic Engineering	CML	Column Mounted Lighting
	FPB	Freeway Sign Pole
	FRFC	Fram Face of Curb
IC Bell	PB	Pull Box
	SDP	Storm Drain Pipe
can Telephone and Telegraph Co.	TOS	Traffic Operations System
	TSP	Traffic System Pull Box

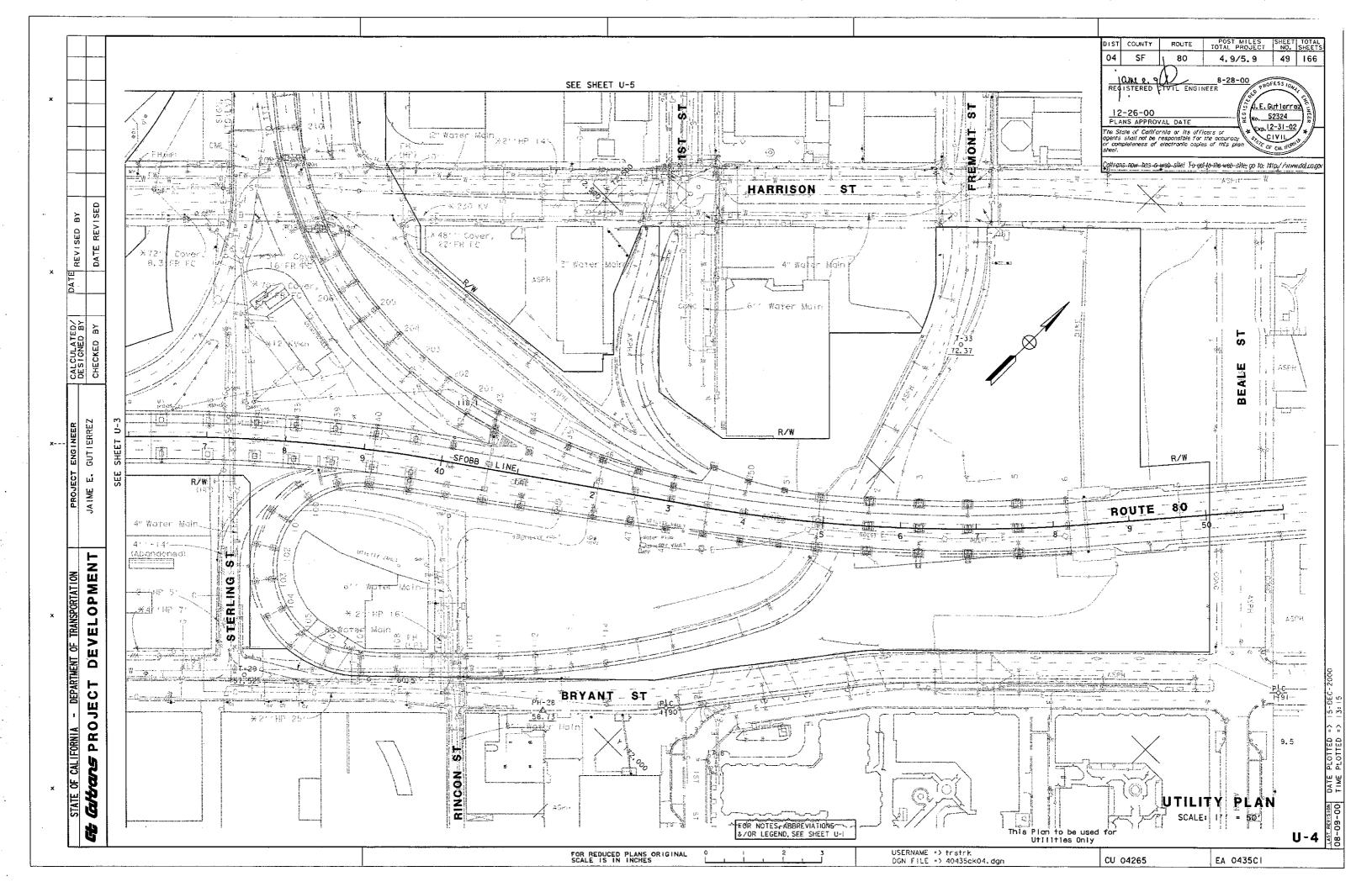
ancisco Department of Public Works

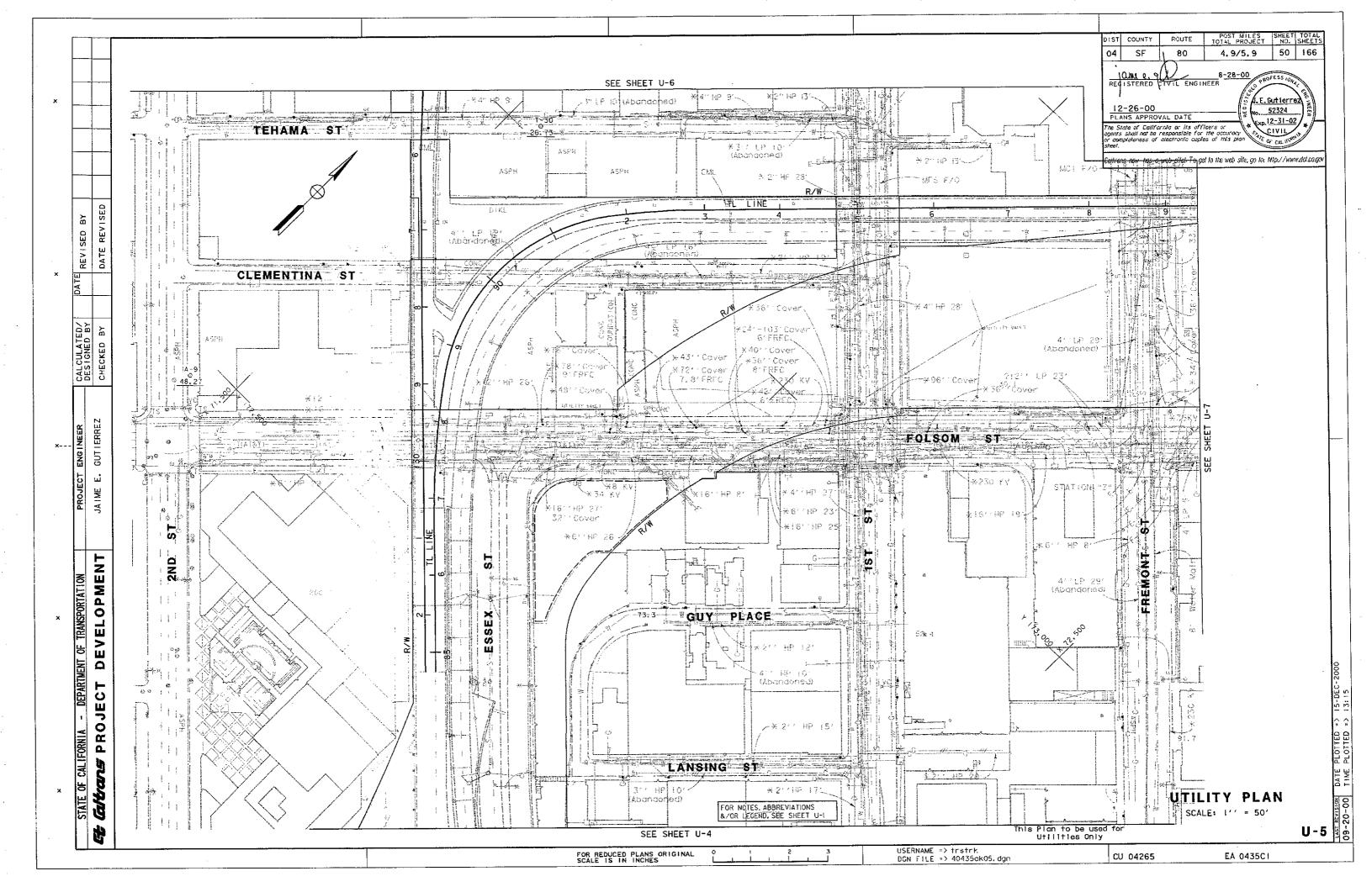


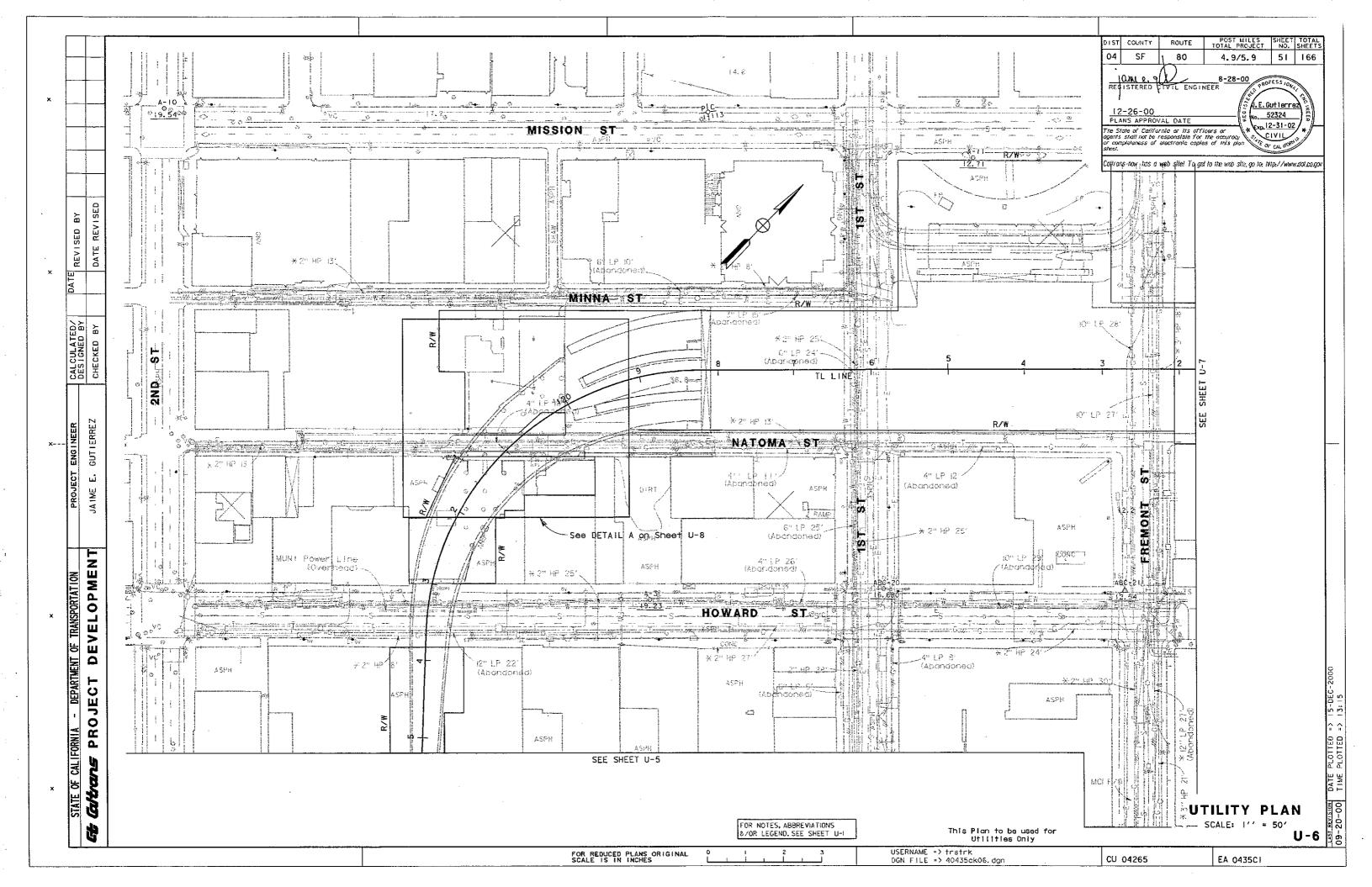
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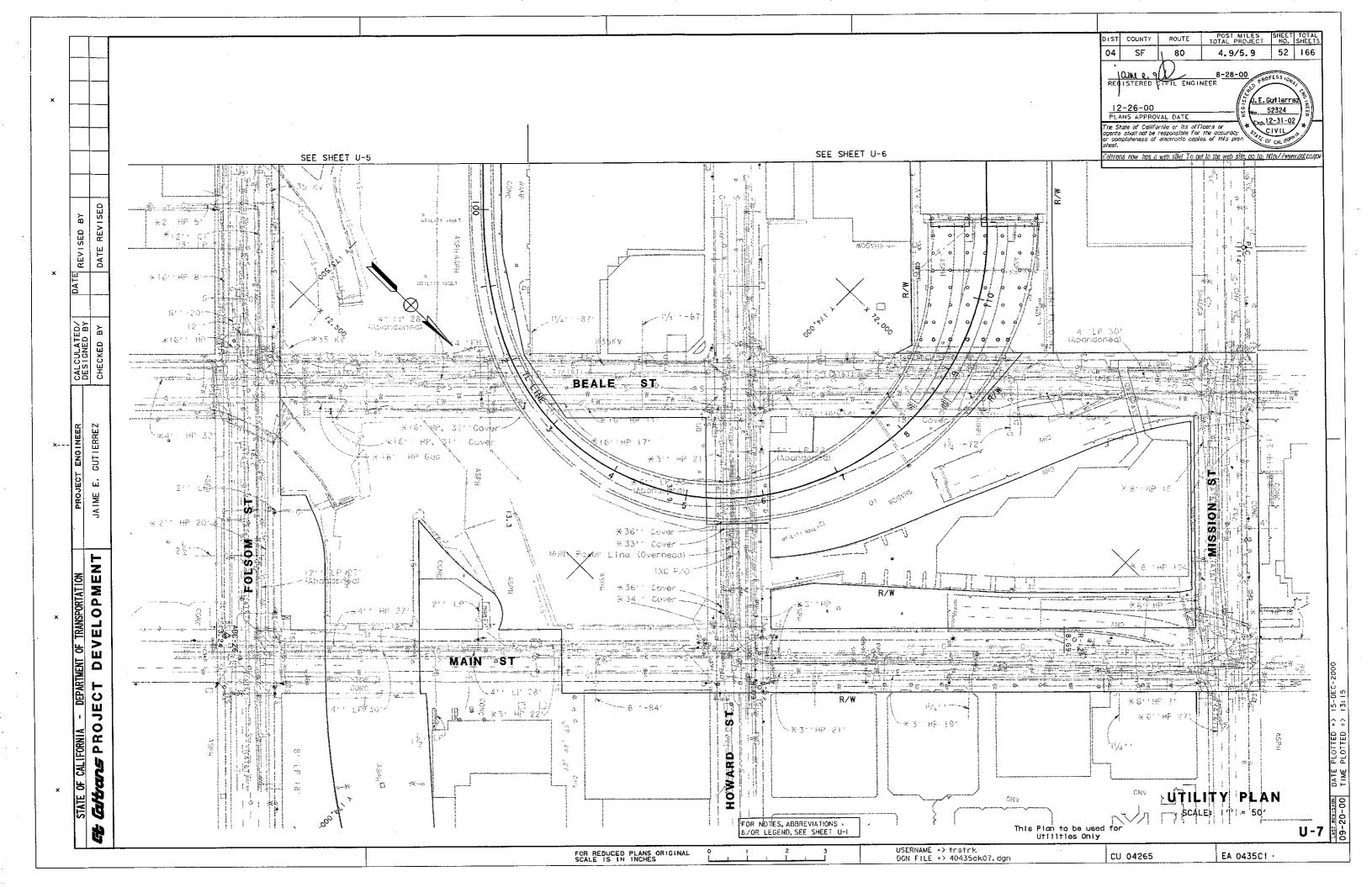


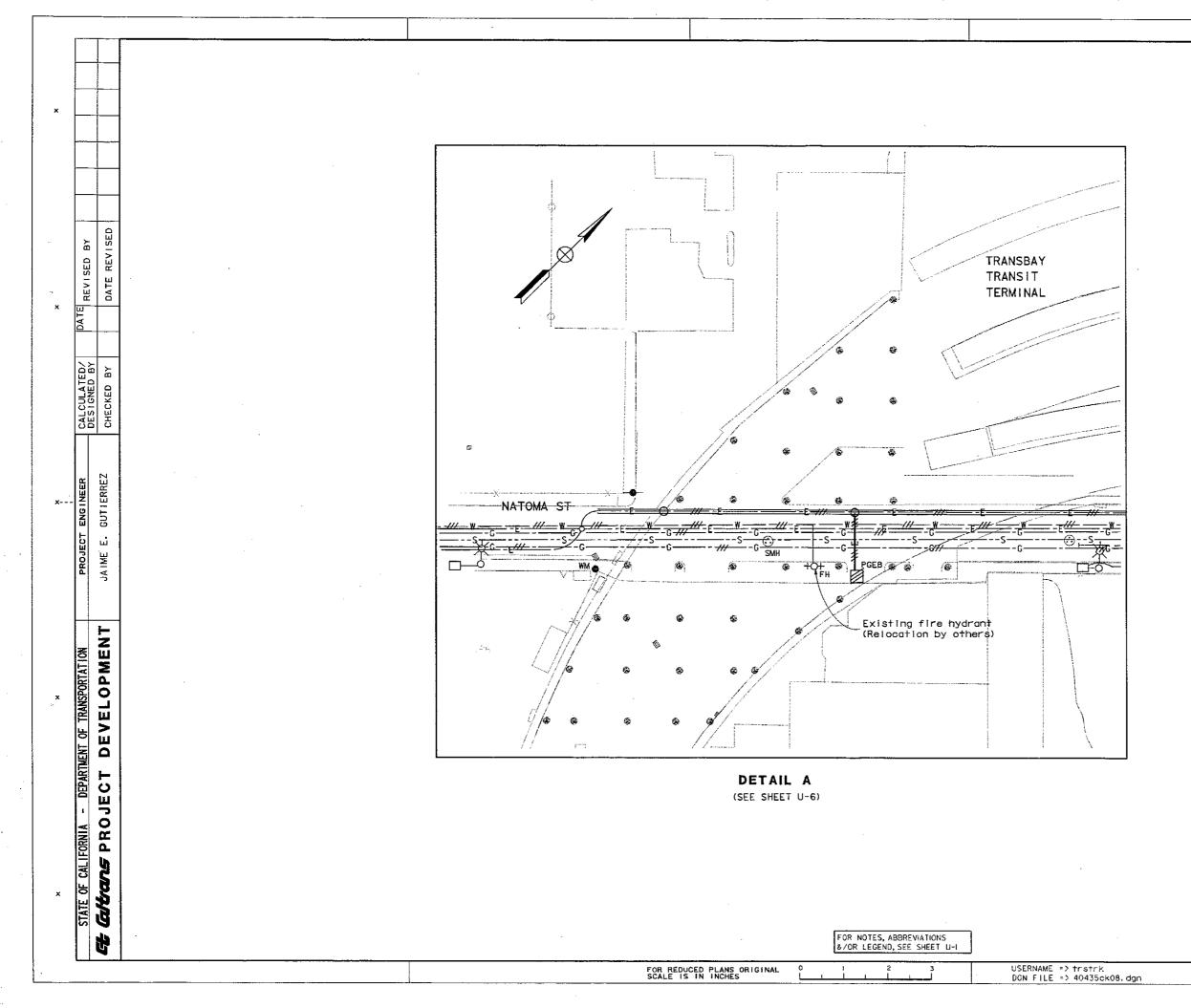




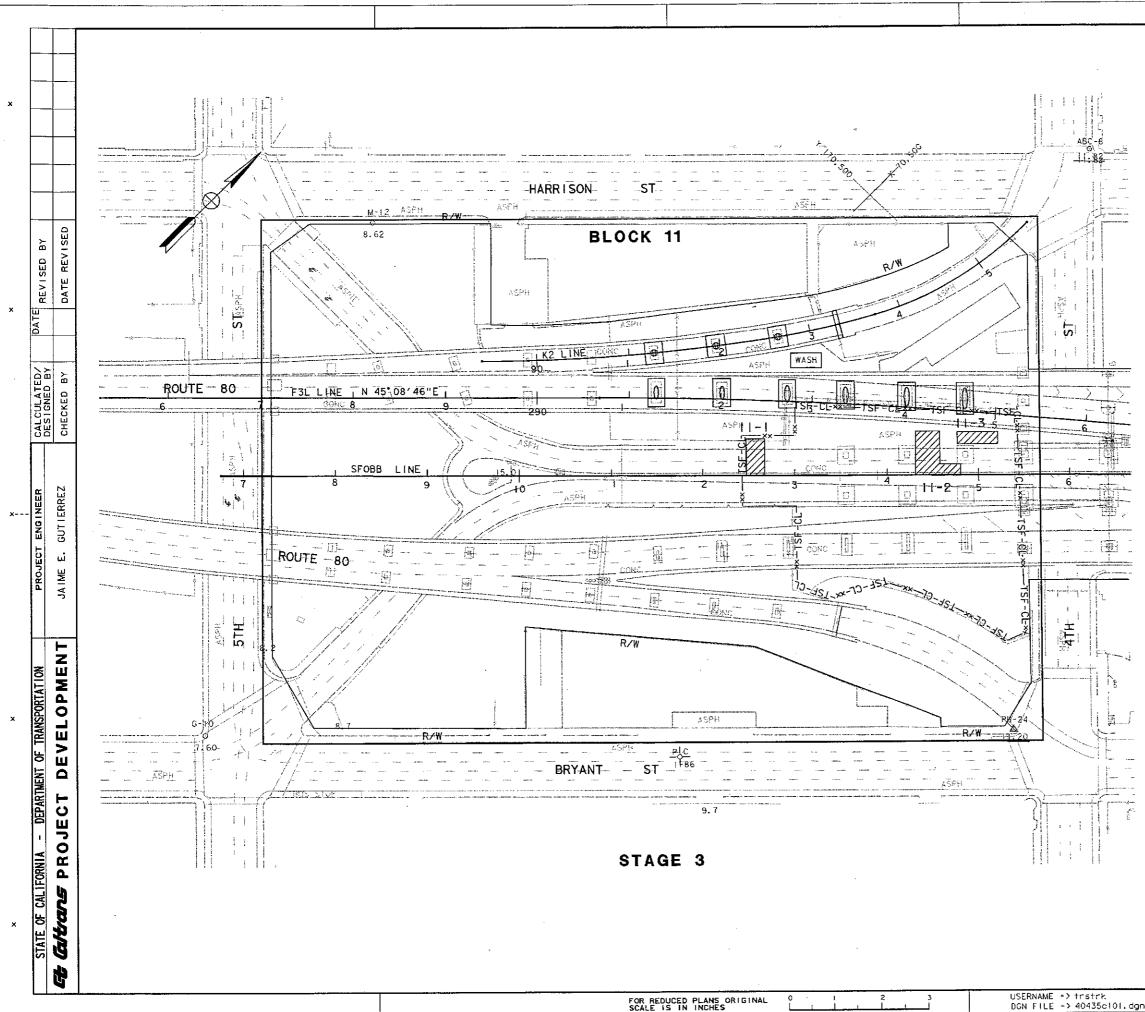








POST MILES TOTAL PROJECT DIST COUNTY ROUTE SHEET TOTAL NO. SHEETS 04 SF 53 166 80 4.9/5.9 REGISTERED FIVIL ENGINEER 8-28-00 PROFESS, E. Gut lerrez 12-26-00 PLANS APPROVAL DATE Exp. 12-31-02 The State of California or its officers or agents shall not be responsible for the accur or completeness of electronic copies of this CIVIL Caltrans now has a web site! To get to the web site, go to: http://www.dot.co.go TTED This plan to be used for Utilities only UTILITY DETAILS SCALE: 111 = 201 U-8 CU 04265 EA 0435CI



 DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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Cattra	ns now has a	web site! To g	et to the web site, go to: t	tip://ww	w.dot.ca.gov
1	LEG	ÈEND			

(FOR SHEETS SC-1 THRU SC-4 ONLY)



Areas of Archaeological Study and Assessment See Sheet X-1 for details

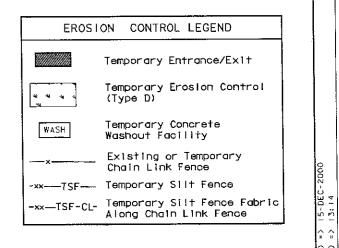
Project block

NOTE:

Contractor may only access one stage at a time during construction operations in the area encompassing Stages I and 2.

ARCHAEOLOGICAL SHORING DEPTHS

LOCATION	STAGE	SHORING DEPTH (FT)
Entire Block 4	5	6
Block 5 (5-1)	5	6
Block 5 (5-2)	5	10
Block 7 (7-1)	4	15
Entire Block 9	l	6
Entire Block 10	2	6
Entire Block II	3	6



STAGE CONSTRUCTION EROSION CONTROL PLAN ARCHAEOLOGICAL PLAN AREAS OF STUDY AND ASSESSMENT

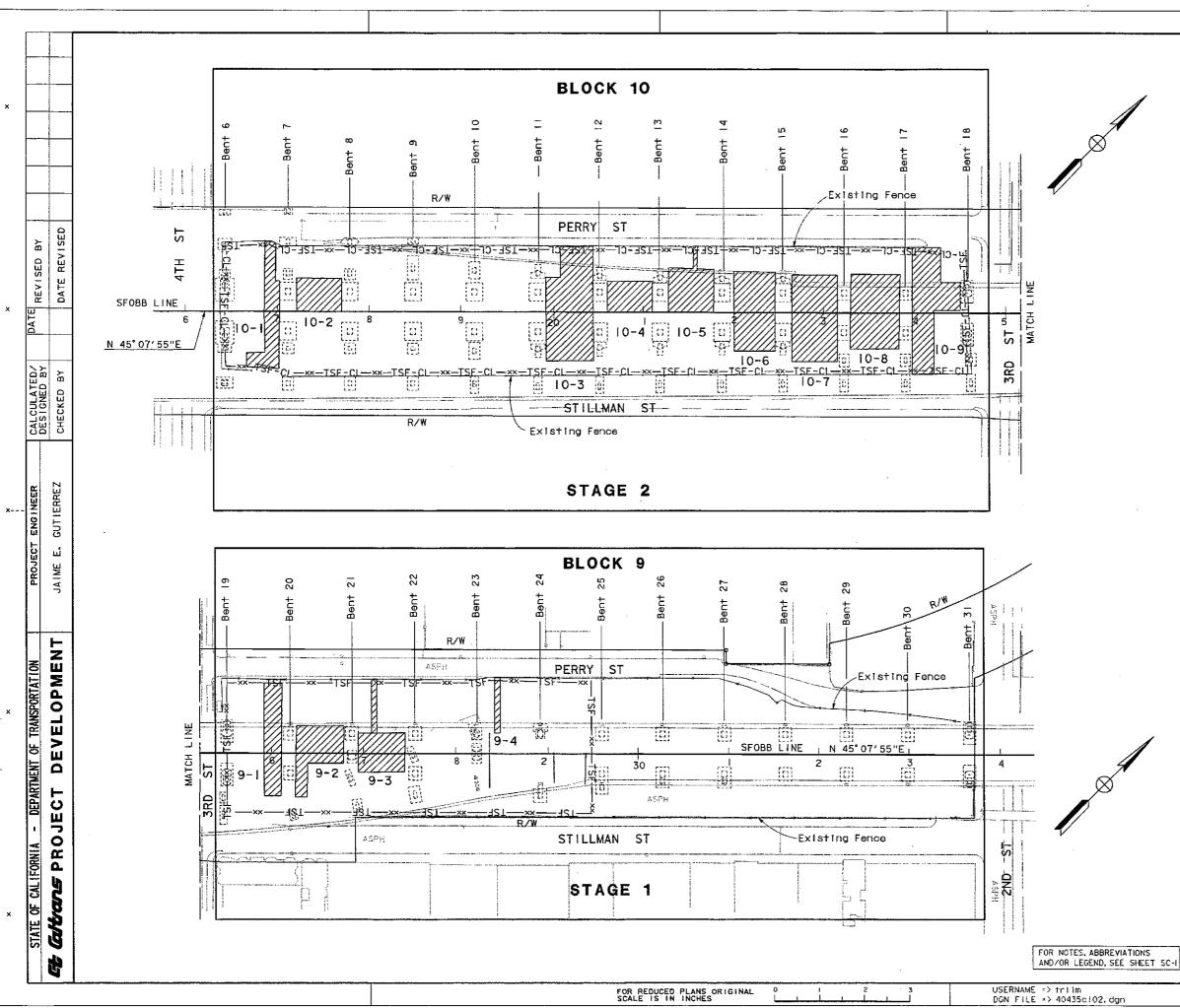
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SCALE: 1"= 50'

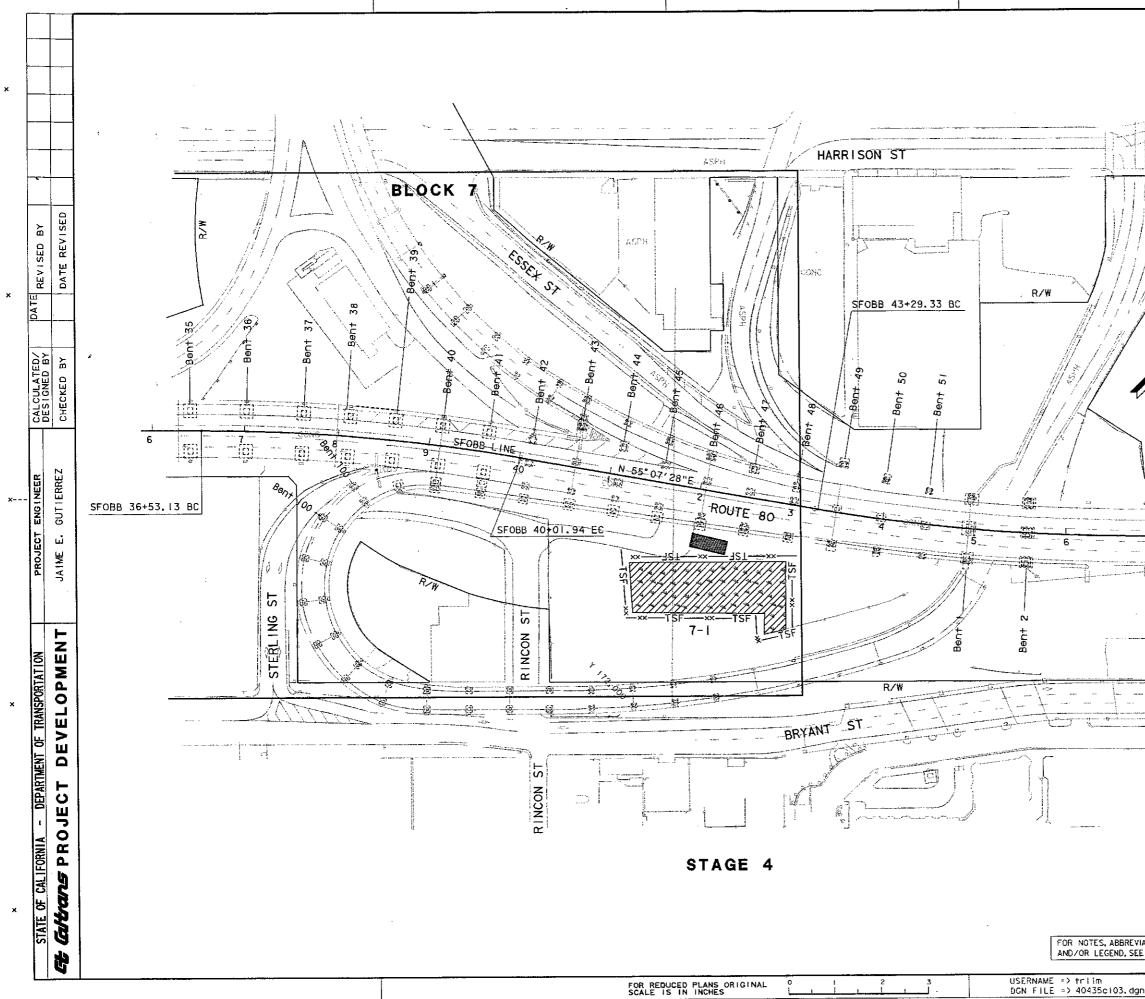
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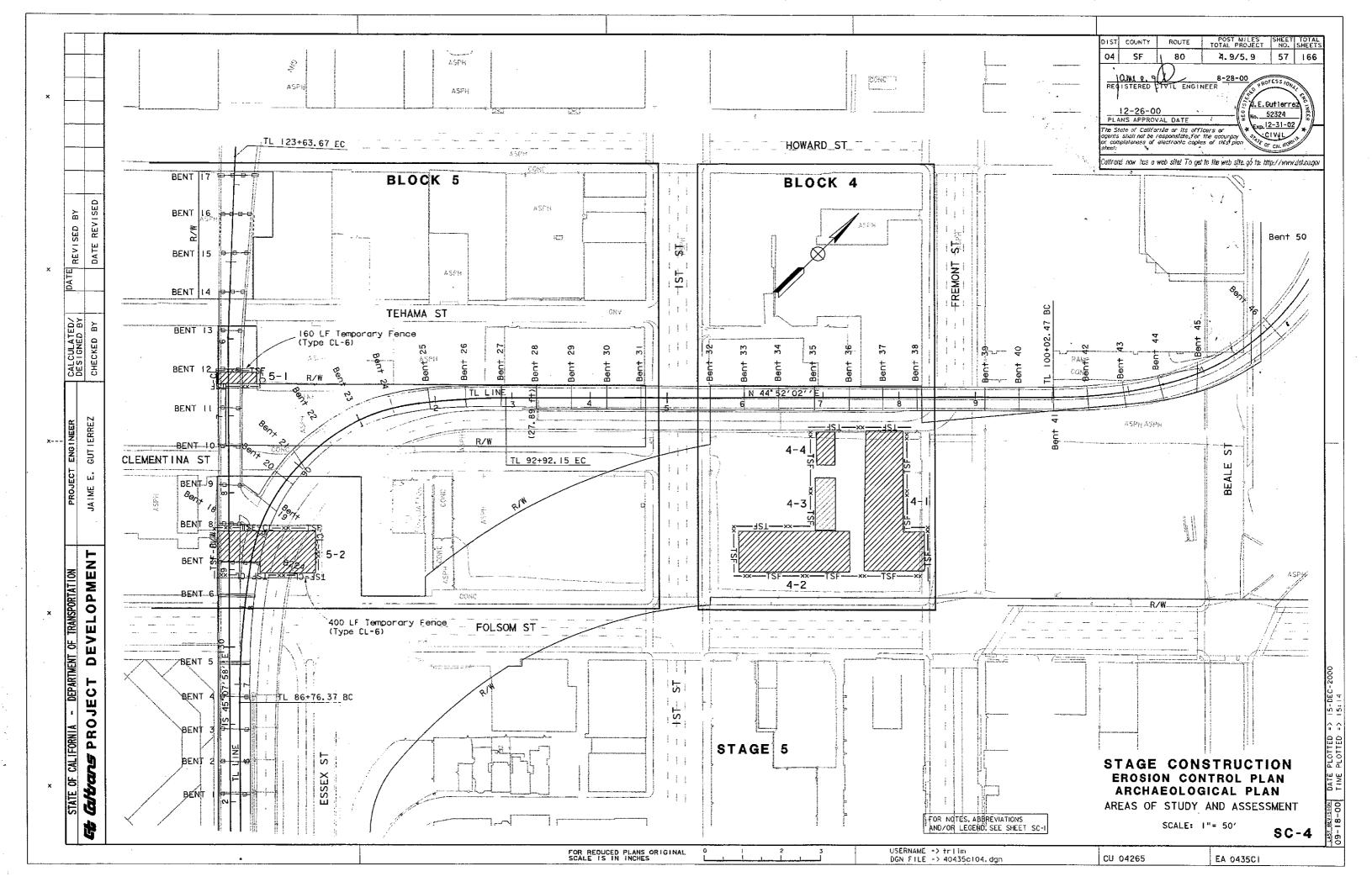
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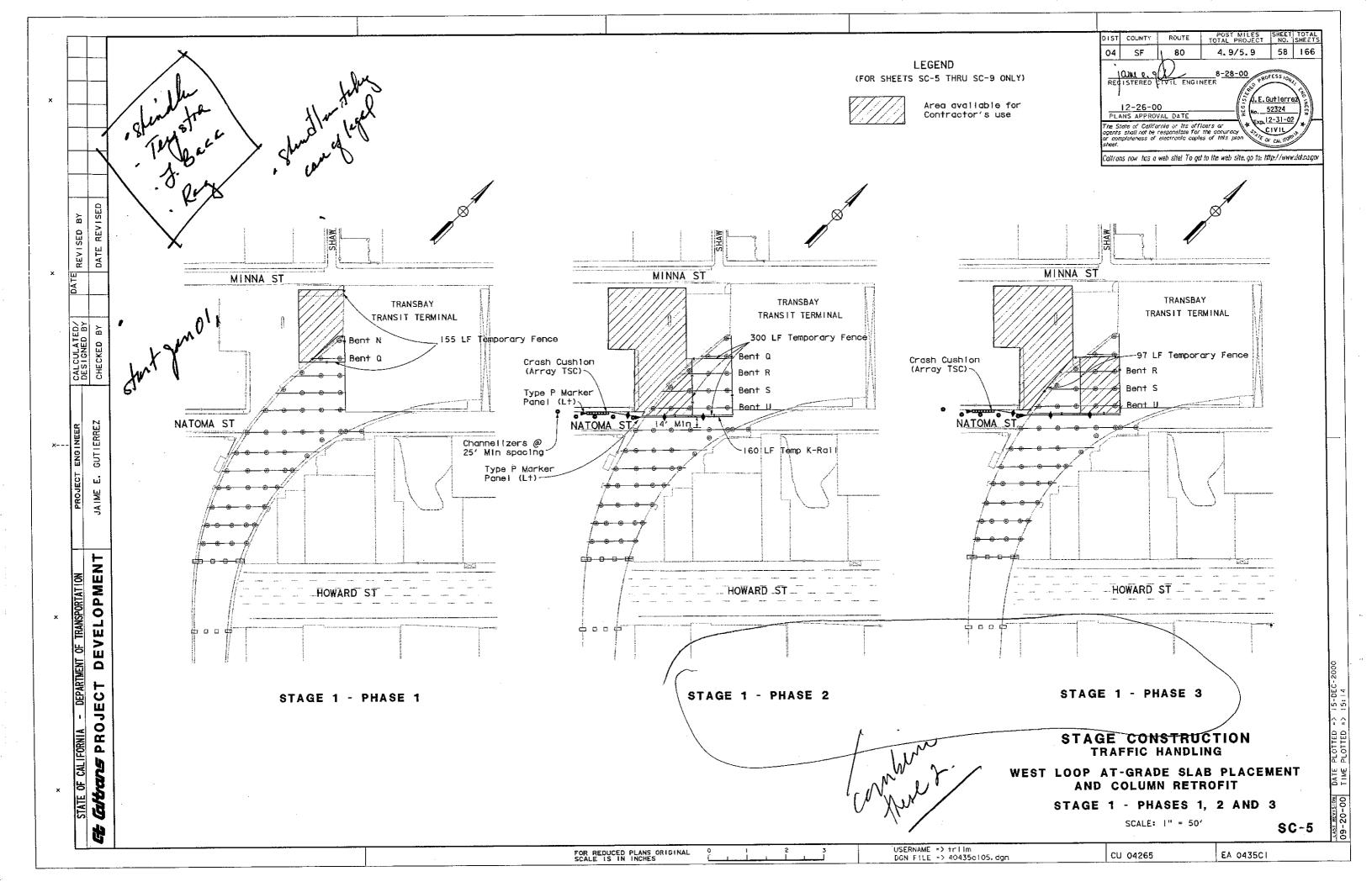
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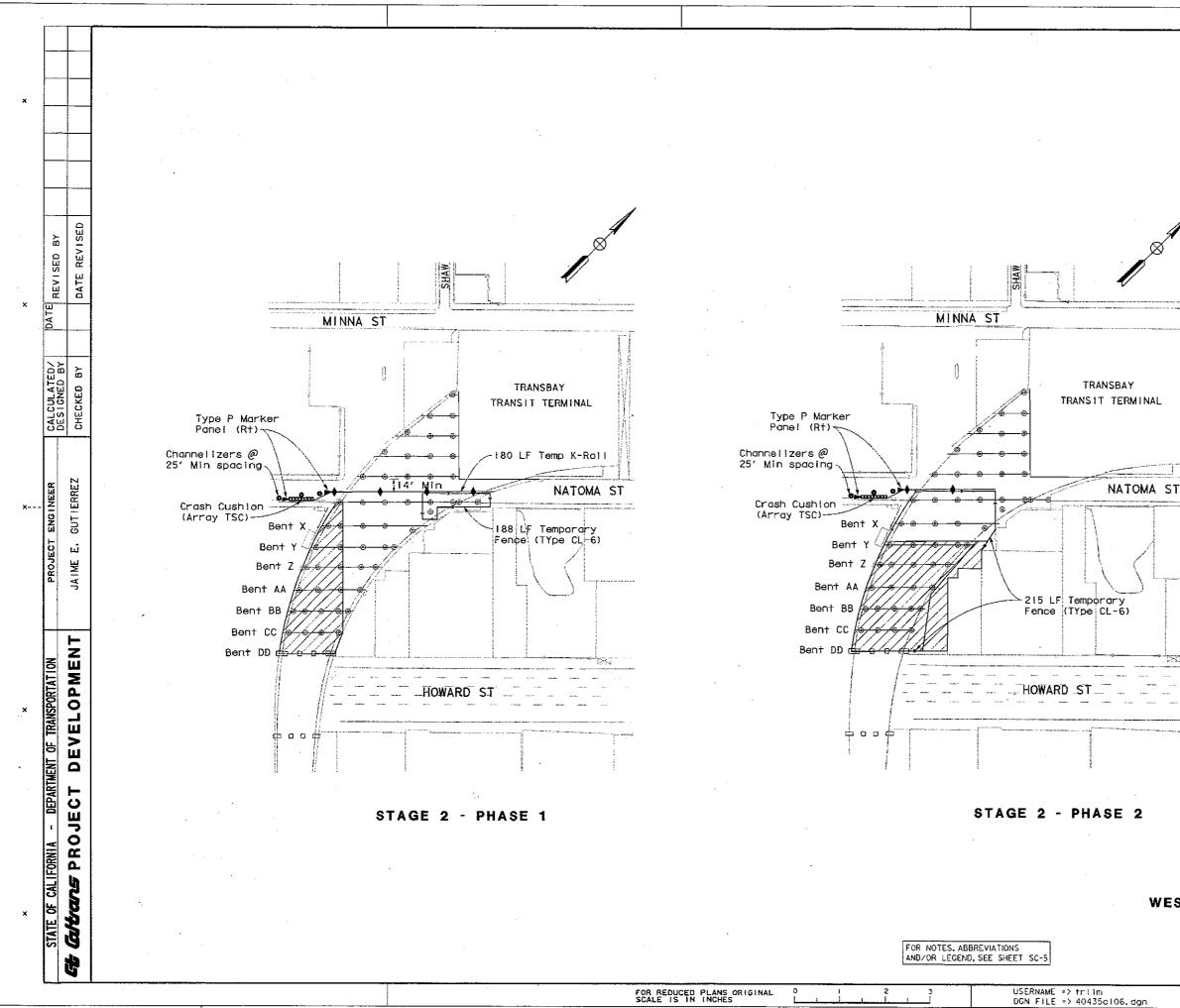
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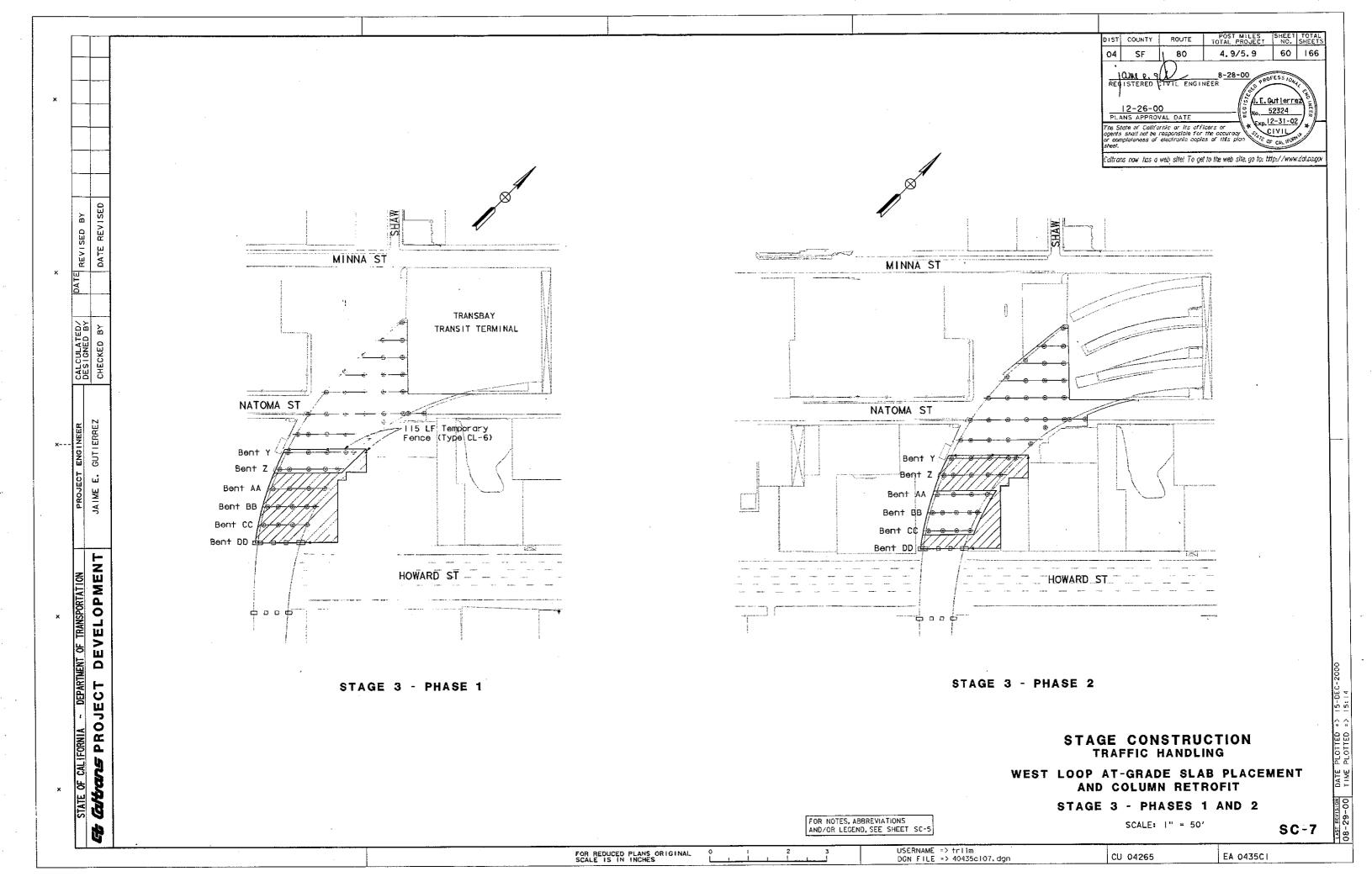
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di wanya sa	E	ROS	ION CO	NSTRUC DNTROL 1 DGICAL P	PLAN	N	DATE PLOTTED => 15-DEC-2000 TIME PLOTTED => 15:14
ONS			F STUD	Y AND ASSI		NT	LAST REVISION
HEET SC-I	. <u> </u>		SCALE	: "= 50'	S	C-3	LAST RU 09-1
	cu	04265		EA 0435			

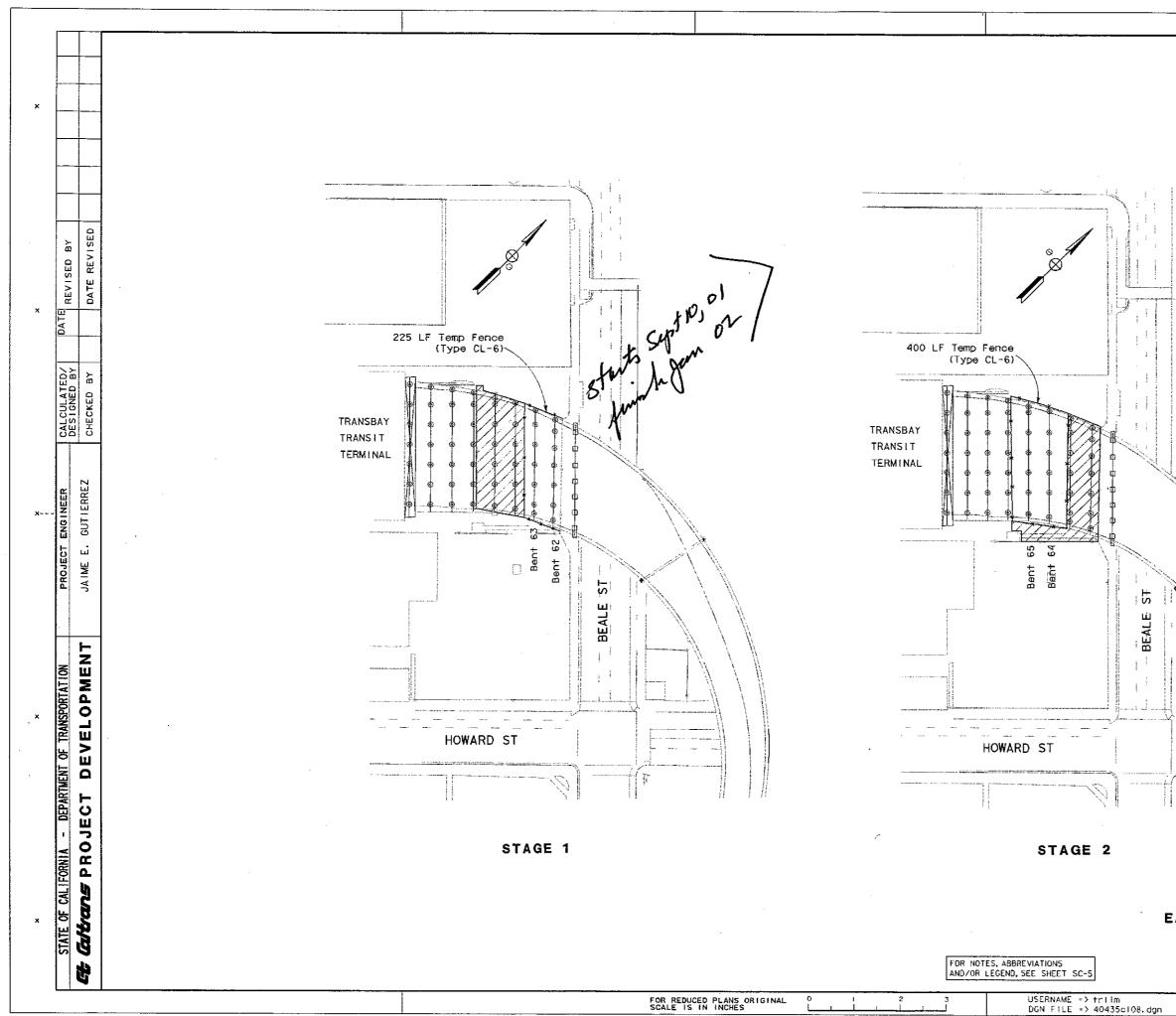




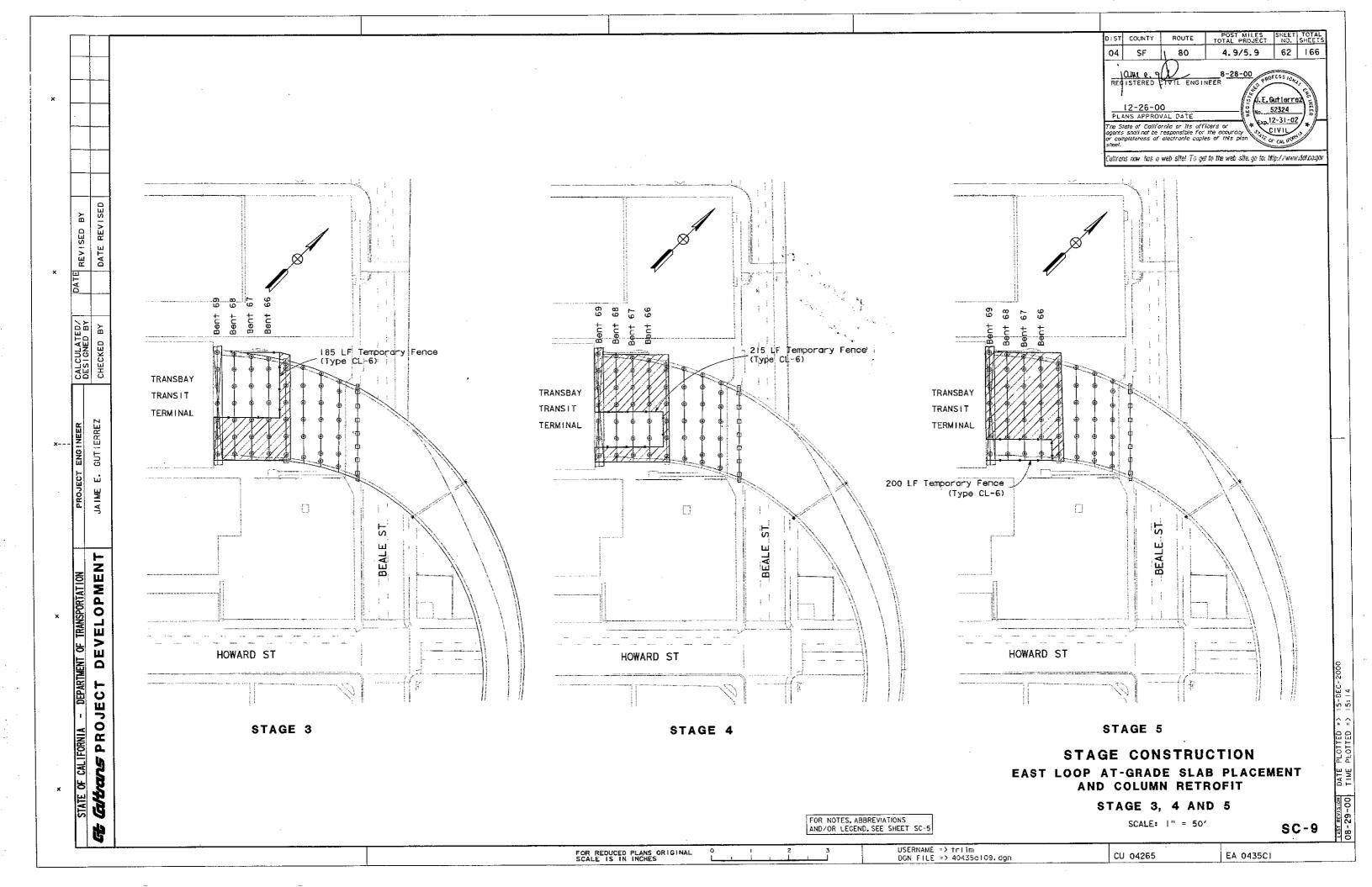


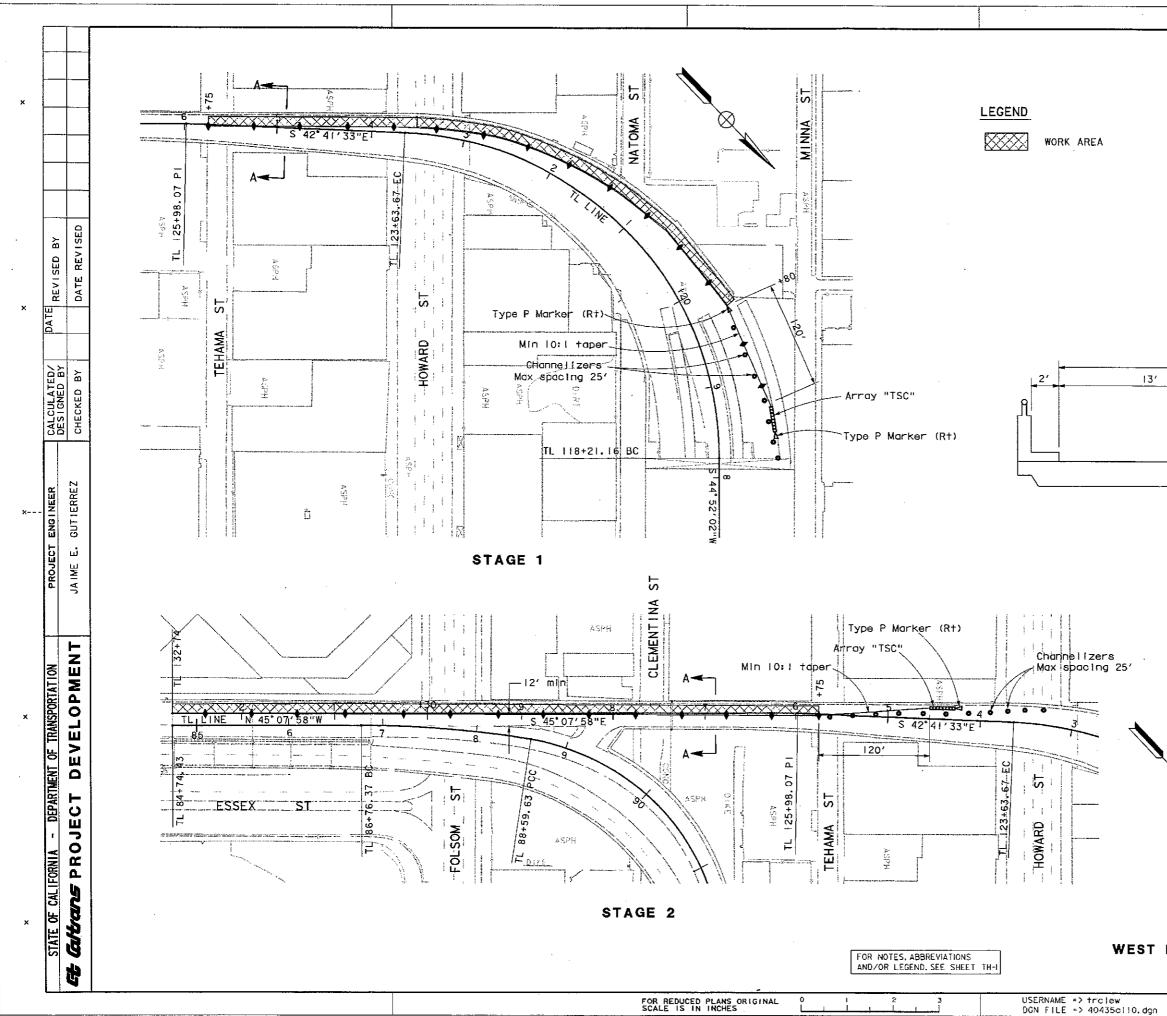
DIST COUNTY POST MILES SHEET TOTAL TOTAL PROJECT NO. SHEET ROUTE 04 \$F 4.9/5.9 59 80 166 REGISTERED FITTL ENGINEER 8-28-00 ROFESS 0. E. Gut lerrez 12-26-00 PLANS APPROVAL DATE xp.12-31-02 The State of California or its officers or igents shall not be responsible for the accuracy or completeness of electronic copies of this pi CIVIL altrans now has a web site! To get to the web site, go to: http://www.dol.co.go STAGE CONSTRUCTION OTTED TRAFFIC HANDLING WEST LOOP AT-GRADE SLAB PLACEMENT AND COLUMN RETROFIT STAGE 2 - PHASES 1 AND 2 18 SCALE: 1" = 50' 1 AST RE 08-01 SC-6 CU 04265 EA 0435CI





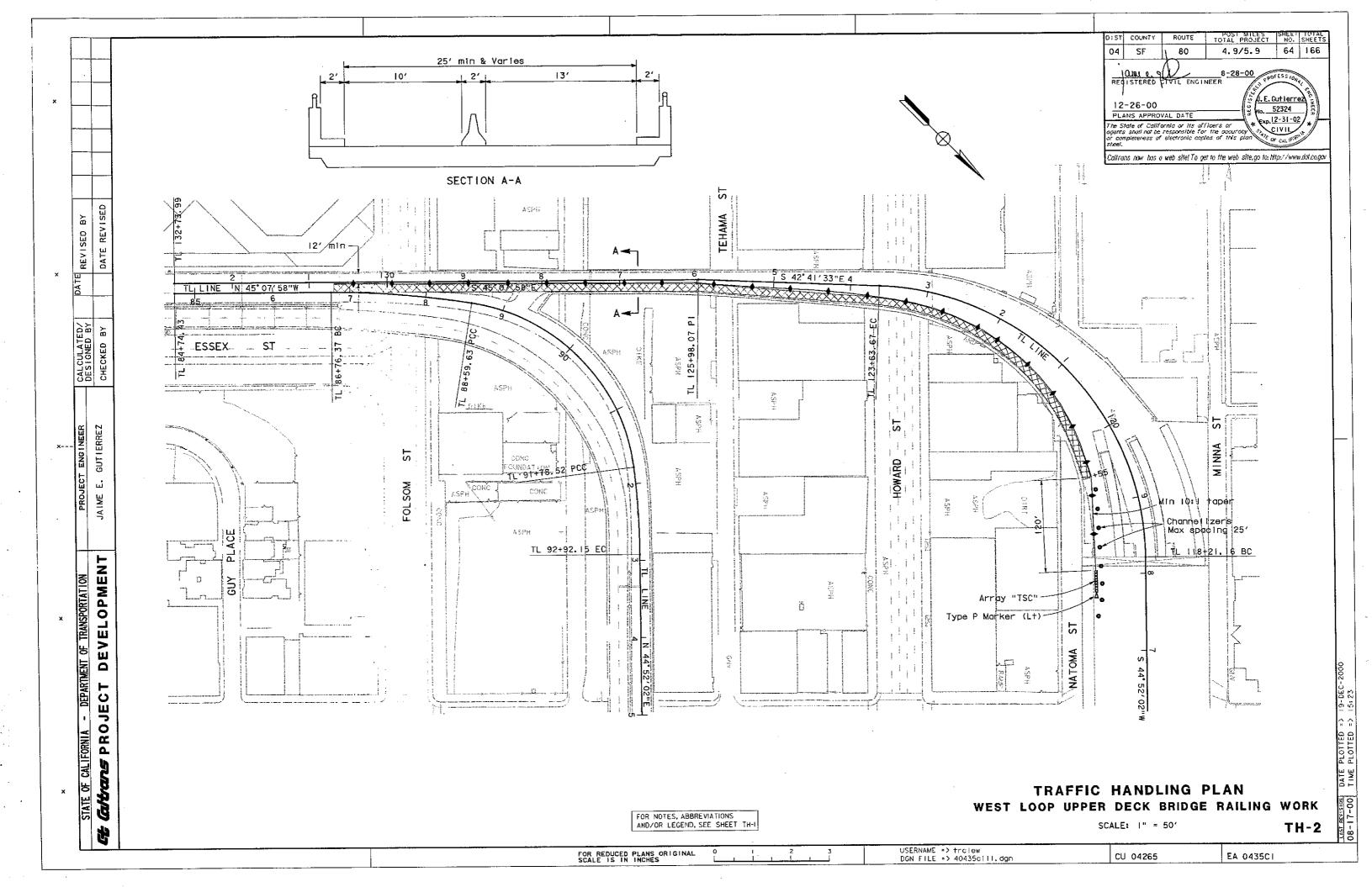
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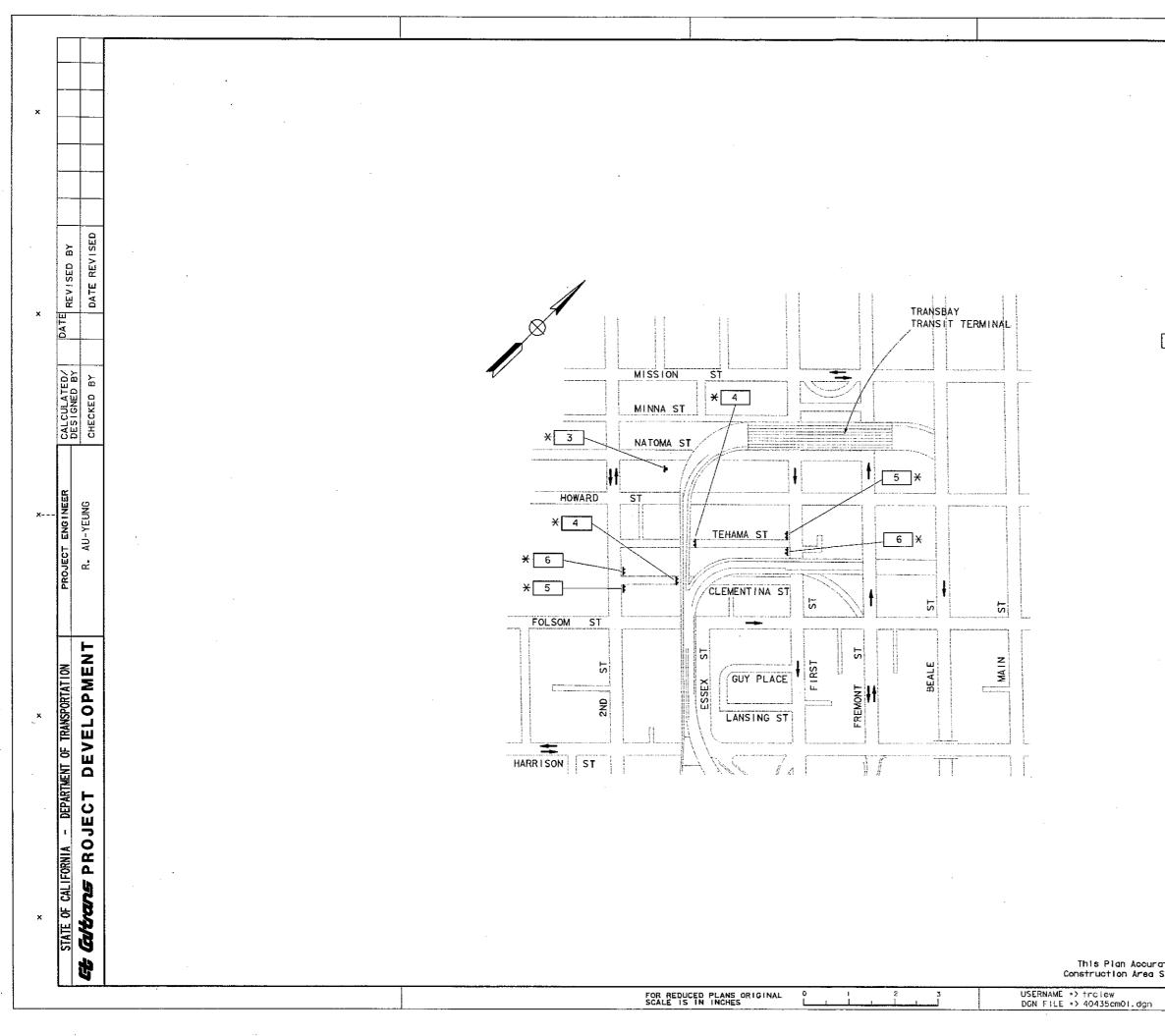




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12-26-00						
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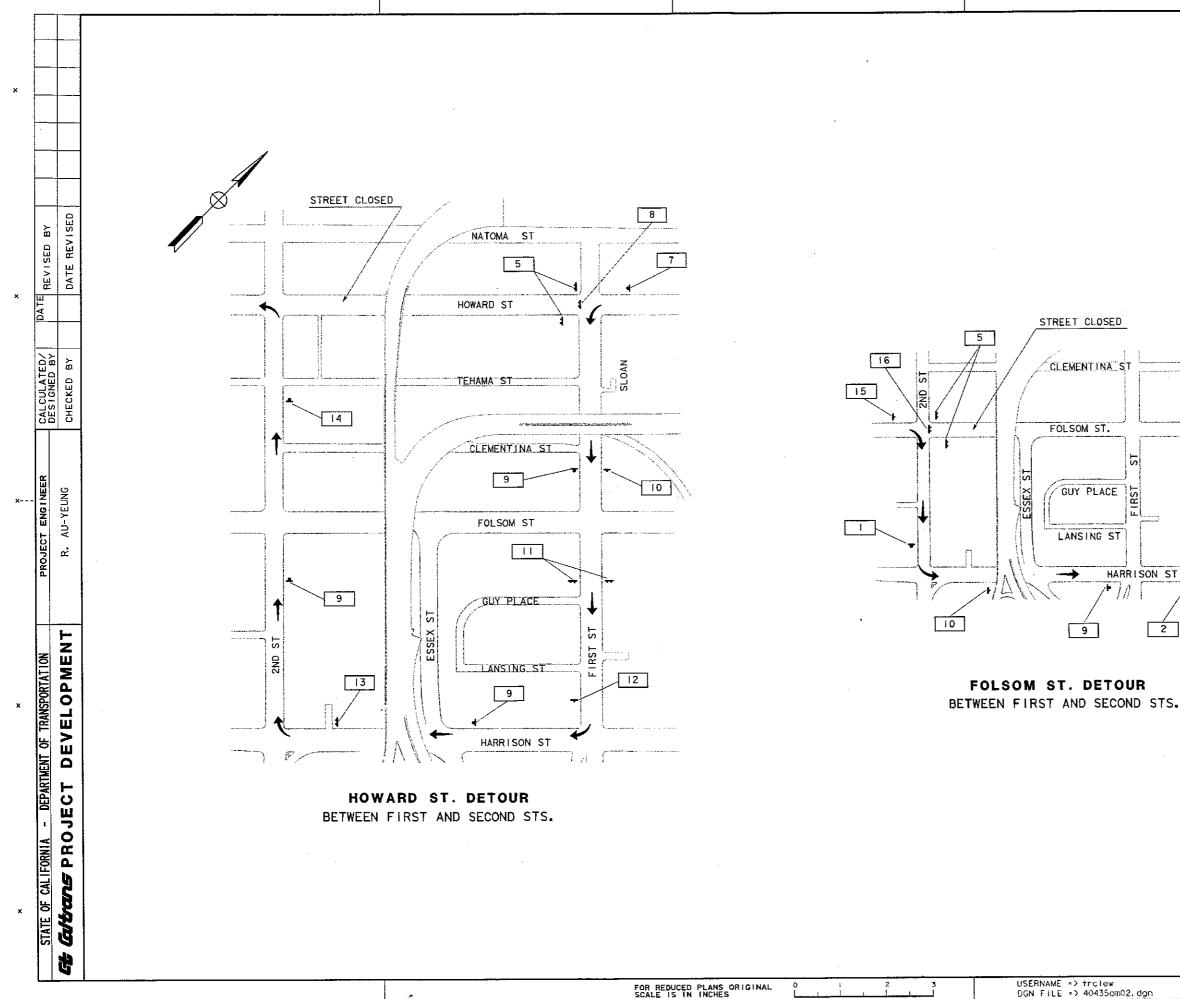
No. Construction Area Sign Designation

Signs to be used during street closures

NOTES:

Location of Construction Area signs are approximate. Exact location will be determined by the Engineer.

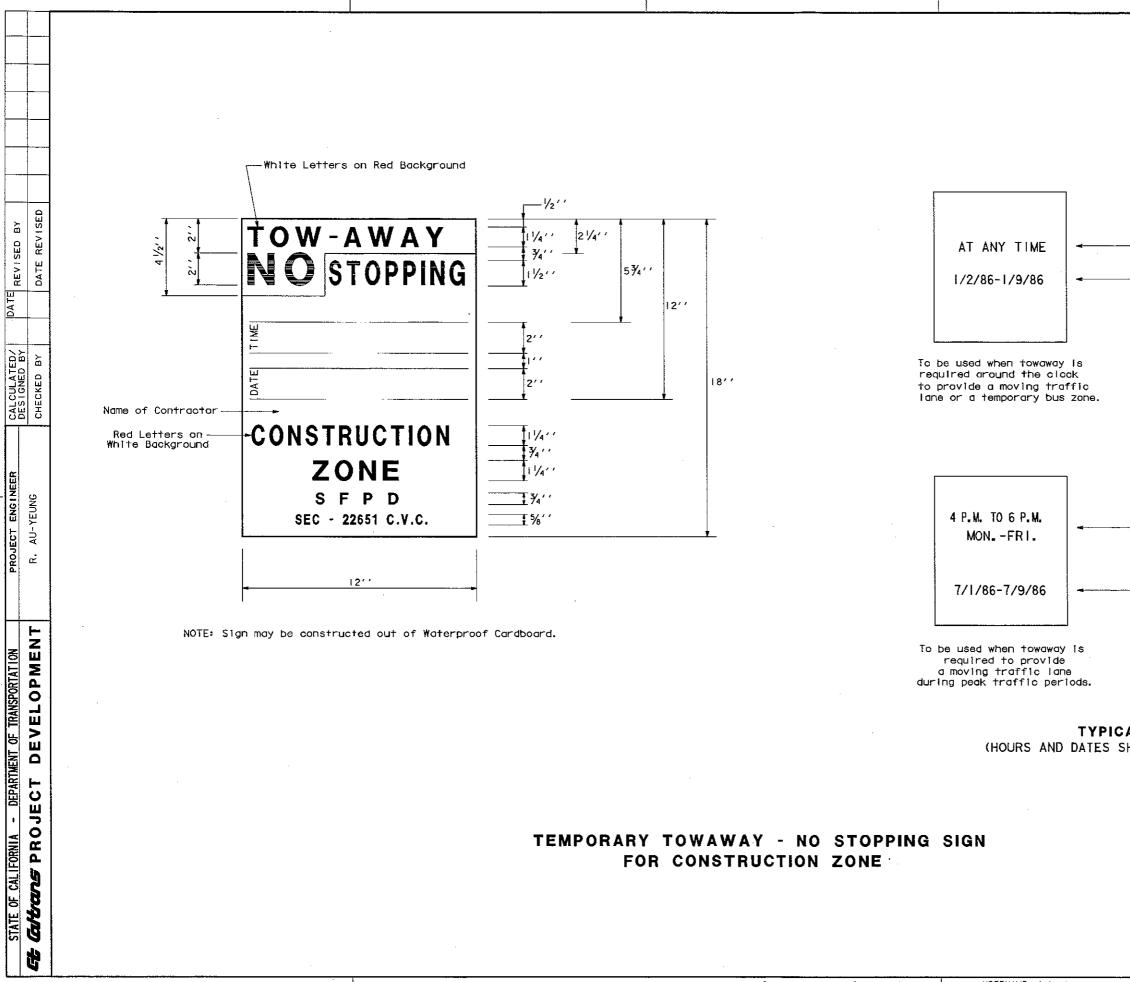
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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

SHEET NO. 66 POST MILES TOTAL PROJECT TOTAL SHEETS DIST COUNTY ROUTE 04 SF 4.9/5.9 166 80 8-28-00 REGISTERED ROFESSI <u>1.E.Gutierrez</u> 10. 52324 12-26-00 PLANS APPROVAL DATE Exp. 12-31-02 The State of California ar its afficers or agents shall not be responsible for the accur or completeness of electronic copies of this CIVIL OF CAL IF Calirans now has a web site! To get to the web site, go to: http://www.dot.ca.go. 14 2 DATE PLOTTED TIME PLOTTED NS CS-2 12-80 CONSTRUCTION AREA SIGNS NO SCALE

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SIGN NO.	CODE	PANEL SIZE (INCHES)	MESSAGE	EACH	WOOD POST (NO. AND SIZE)	REMARKS
I	SPEC	42 x 30		· I		See SPECIAL D - SSBM (s)
2	SPEC	42 × 30		1	I- 4''x 6''	See SPECIAL D (s)
3	C18	36 × 36	ROAD CONSTRUCTION AHEAD	I		SSBM (s)
4	C2	48 × 30	ROAD CLOSED	2		Mount on Type III Barricade
5	SPEC	60 × 36		6	2- 4'' × 4''	See SPECIAL A (s)
6	C3A	60 x 30	ROAD CLOSED TO THRU	2		Mount on Type III Barricade
7	C19	48 × 48	ROAD CLOSED AHEAD			SSBM (s)
Ľ	C5 (L+)	48 × 18		,		
8	C5(L+)	48 × 18		1		Mount on Type III Barricade
9	SC3 (Å)	48 × 18		4		SSBM (s)
10	SC3(\$)	48 × 18		2	I- 4''x 4''	(s)
	SPEC	48 x 24		2	I- 4''x 6''	See SPECIAL B
12	C5 (R+)	48 × 18		l	I- 4''x 4''	(s)
13	SPEC	42 × 30		1	I- 4''× 6''	See SPECIAL C (s)
14	C7	30 × 18	END DETOUR	2		SSBM (s)
	C19	48 × 48	ROAD CLOSED AHEAD		I- 4''x 6''	(s)
15	C5 (R+)	48 x 18] '	1-4' X 6'	
16	C5(R+)	48 × 18		I	1- 4''x 4''	(s)

CONSTRUCTION AREA SIGN QUANTITIES

(s) Stationary Construction Area sign

ADVA



DETOUR RIGHT LANE

SPECIAL B

DETOUR **----**

SPECIAL D

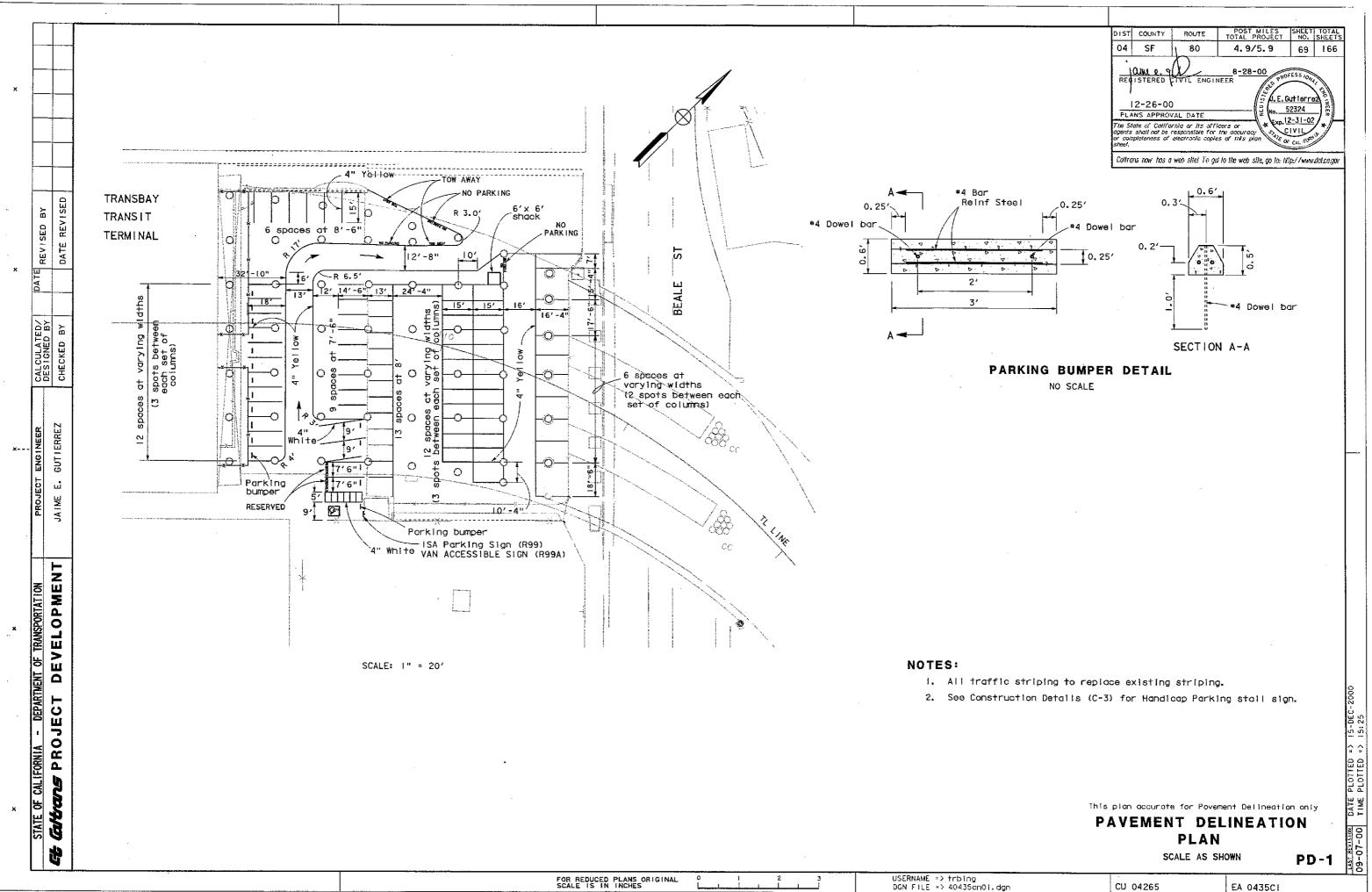
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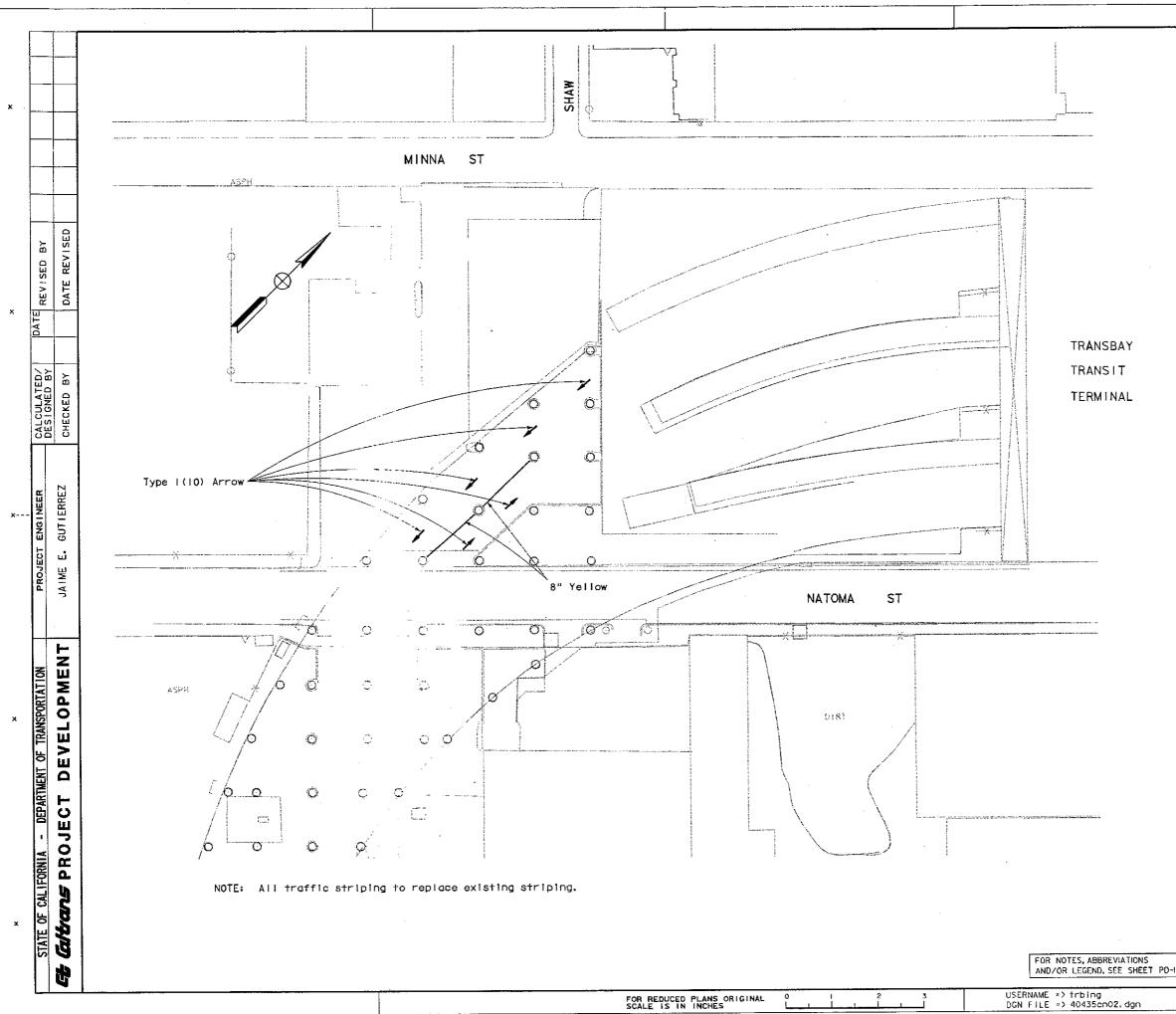
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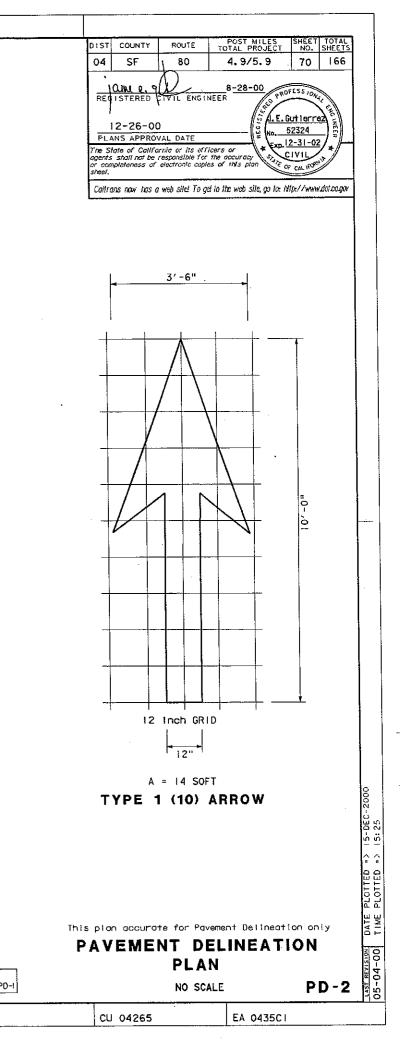
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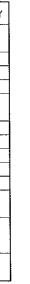






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	SHEET 1	NO. STAGE LOCATION	۹ LF] [:	SHEET NO. S	TAGE	LOCATION	ARRAY EA]	SHEET NO. STAGE	LOCATION	LF	jame e. 90	8-28-00
	ТН- І	N/A UPPER DECK (WES					DECK (WEST LOOP	and the second se		L-1 N/A 41	h ST ON RAMP	440	REGISTERED CIVIL ENC	8-28-00 PROFE
-	TH-2 SC-5		T LOOP) 1220				DECK (WEST LOOP				TOMA ST	60	12-26-00	J.E. Gut
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9			TOTAL 3140	₁ ⊢						L-I N/A	4th ST ON RAMP	80		
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<u>ک</u>							7 P			SC-5 S-1, P-1	TTT WEST LOOP	155		
ш	,	A5	PHALT CO				1E	•		SC-5 S-1, P-2	TTT WEST LOOP	300		
			AS	SPHALT CONCR	RETE (TYPE A)		MIN	OR CONCRETE	Í	SC-5 S-1, P-3		97		
	SHEET	LOCATION/BENT NO.	FOOTINGS	RETROFIT	PARKING LOT	ASPHALT CON	IC (MISC	CONSTRUCTION)			TTT WEST LOOP	215		
	NO.			FOOT ING	SURFACING		CURB/GUTTER	SIDEWALK/DRI	VEWAY		TTT WEST LOOP	115		
			EA	TON	N	CY		CY		SC-8 S-1	TTT EAST LOOP	225		
	C-20 C-20	<u>L-98</u> L-99		18.40						SC-8 S-2	TTT EAST LOOP	400		
₩ E	C-20	L-100		18.06						SC-9 S-3 SC-9 S-4	TTT EAST LOOP	215		
Ē	C-20 C-20	L-101 L-102		18.06						SC-9 S-5	TTT EAST LOOP	200		
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	C-21	HOWARD ST					18.10							
4	<u> </u>	HOWARD ST BLOCK It (4TH ST On Ramp)	N/A		144,00	52.40		48.39			TOTA	L 2935		
כעכל	SC-2	BLOCK IO (4TH ST/3RD ST)	N/A		1107.00	401								
		BLOCK 9 (3RD ST/2ND ST) BLOCK 7 (RINCON HILL)	N/A		289.00 330.00	105				CHAIN LINK	FENCE (TYPE	CL-6)		
3	SC-4	BLOCK 5 (HOWARD ST/FOLSOM ST) N/A		193.00	70.00				SHEET NO. STAGE	LOCATION	LF		
:		BLOCK 4 (IST ST/FREMONT ST) PARKING LOT AT ESSEX/FOLSOM	N/A		703.00	254.50				L-I N/A	4th ST ON RAMP	440		
1		WEST LOOP TTT		399.00						L-6 N/A	TTT EAST LOOP	100		
	L-6	EAST LOOP TTT		411.30	0000 00	1002.00		40.70		C-22 N/A	PARKING LOT (TTT			
	L	TOTAL	I	936.30	2899.00	1002.20	18.10	48.39			EAST LOOP)	DTAL 721		
–		PAVEMEN	T DELINEA	T				MISCELI		US QUANTITIES				
				PAINT PAVEMENT MARKER	AINT TRAFFIC		SHEET NO.	CONTRACT ITEM		LOCATION	UNIT OUANTITY			
Z					10-00111									
2 11 2	SHEET	STATION LIMITS OR	DETAIL	(2-COAT)	(2-COAT)			ONSTRUCT CHAIN	LINK	4+5 ST PARKING LOT				
	SHEET NO.		DETAIL NO.	(2-COAT)	· · _ · _ · _ · _ · _ · _ · _ ·	·	GAT	ONSTRUCT CHAIN E		4th ST PARKING LOT	EA I		RUADWAT EA	XCAVATION
		OR	1 1	(2-COAT) YELLOW 4	4''WHITE 4''	YELLOW	L-I GAT	ONSTRUCT CHAIN E (TYPE CL-8) OVE WOOD BUMPER		4th ST PARKING LOT	LF 150		[VOLUME
	NO.	OR LOCATION	NO.	(2-COAT)	4''WHITE 4'' LF	YELLOW	L-I REM	ONSTRUCT CHAIN E (TYPE CL-8) DVE WOOD BUMPER DVE MBGR					SHEET NO. LOCATI	
VELOPMEN		OR	NO.	(2-COAT) YELLOW 4	4''WHITE 4'' LF	·	L-I REM L-I REM L-I REM L-I REM	ONSTRUCT CHAIN E (TYPE CL-8) DVE WOOD BUMPER DVE MBGR DVE CONCRETE (A ONSTRUCT CHAIN L	I-6 CURB	4th ST PARKING LOT 4th ST PARKING LOT 2 4th ST PARKING LOT	LF 150 LF 190 LF 30		SHEET NO. LOCATI SC-I BLOCK	ON VOLUME CY 11 316.00
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET	TOTAL SHEETS			
04	SF	1 80	4.9/5.9	71	166			
12-26-00 PLANS APPROVAL DATE								
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan steet.								
Callre	ans now has a	web site! To ge	l to the web site, go to: H	ip://www	dot.ca.gov			

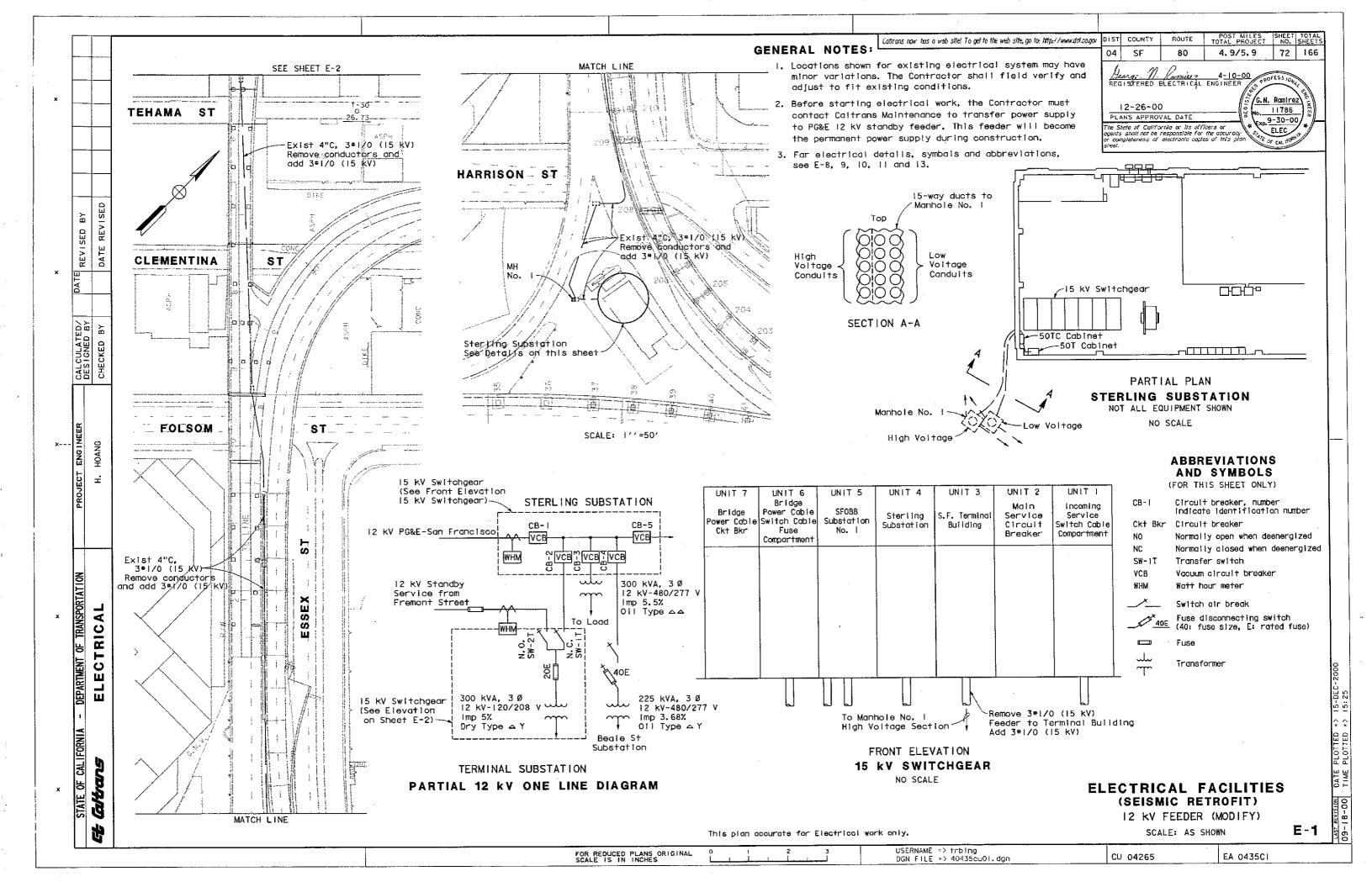


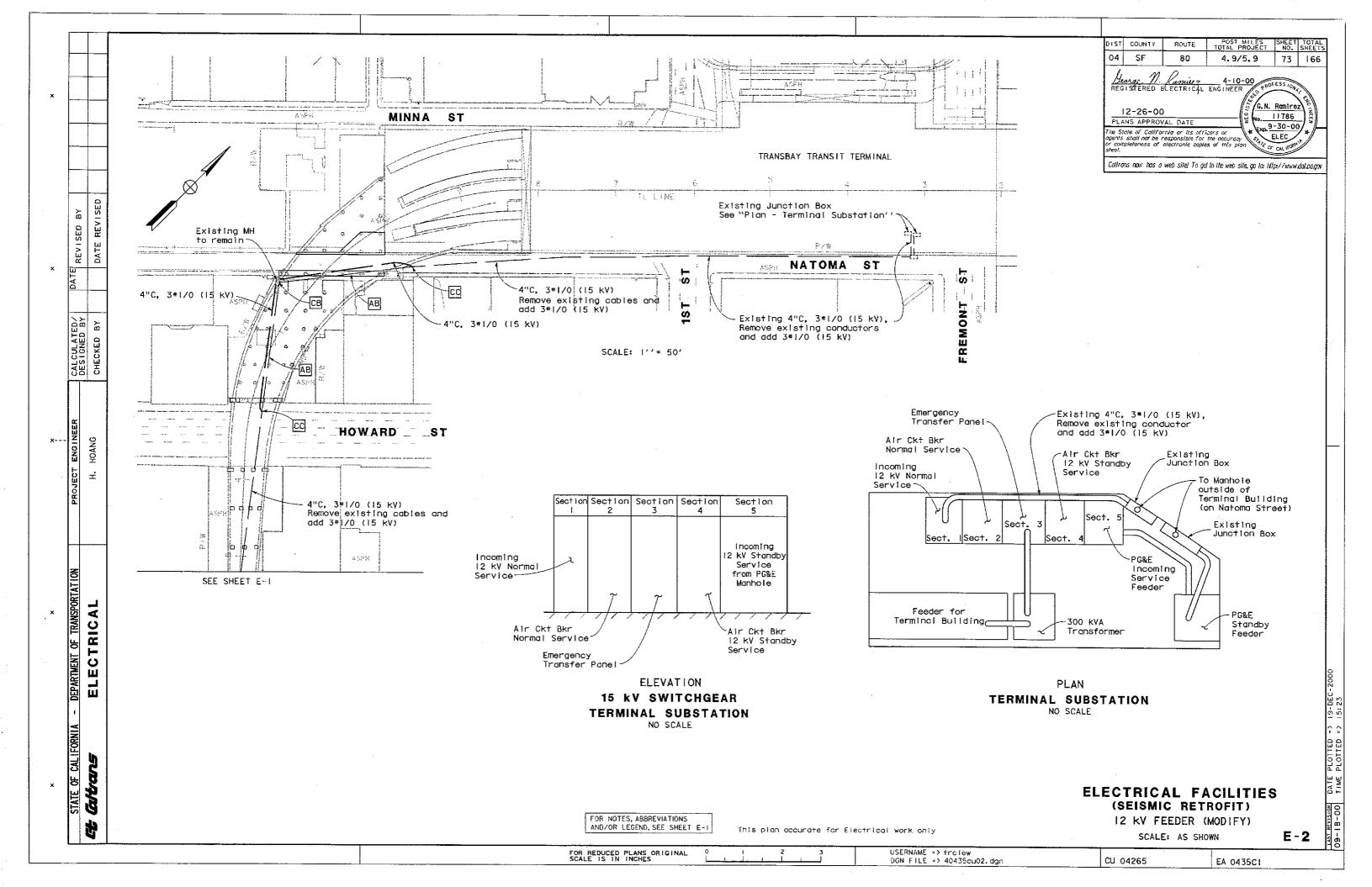
TIES Q-1

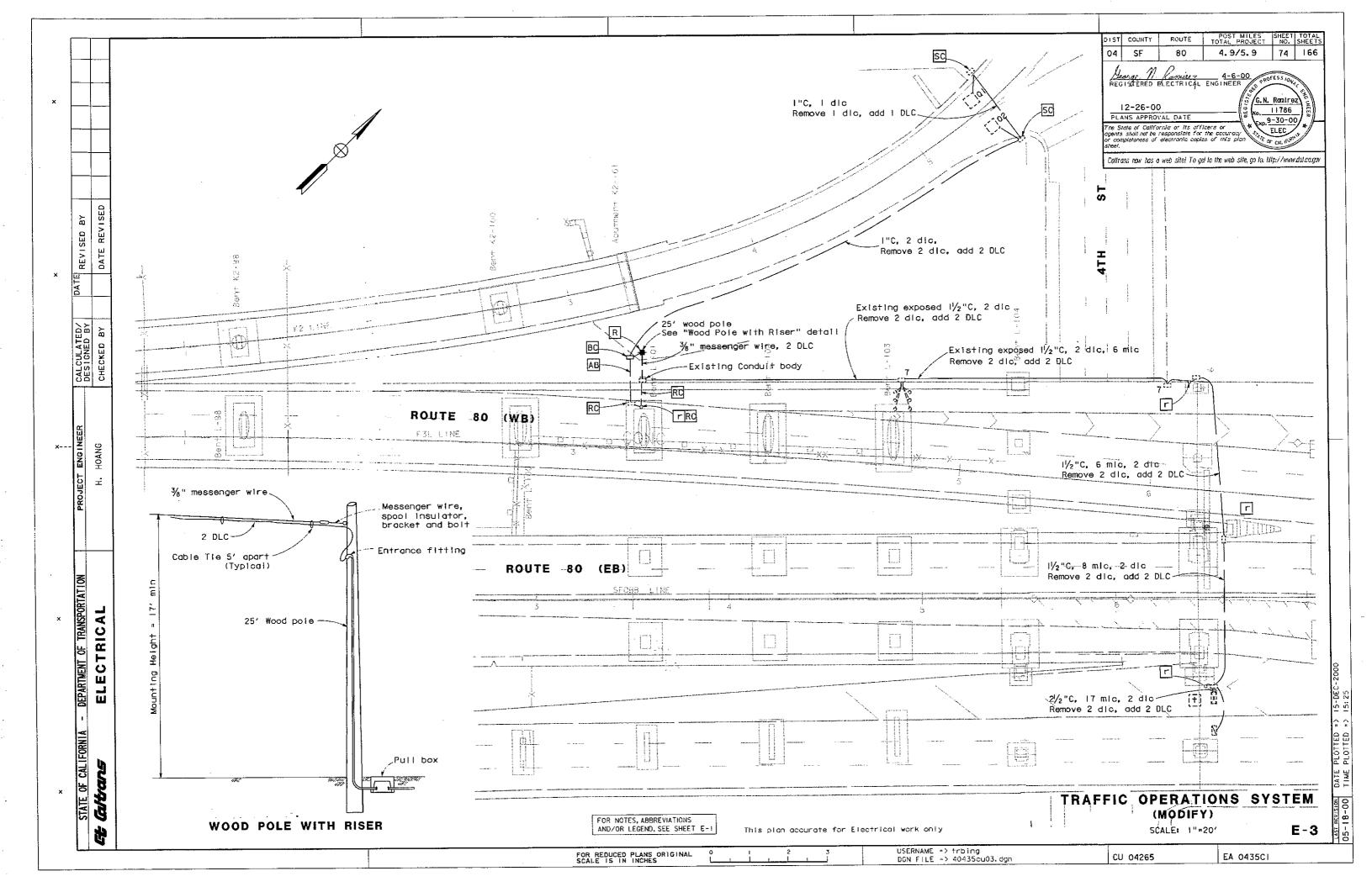
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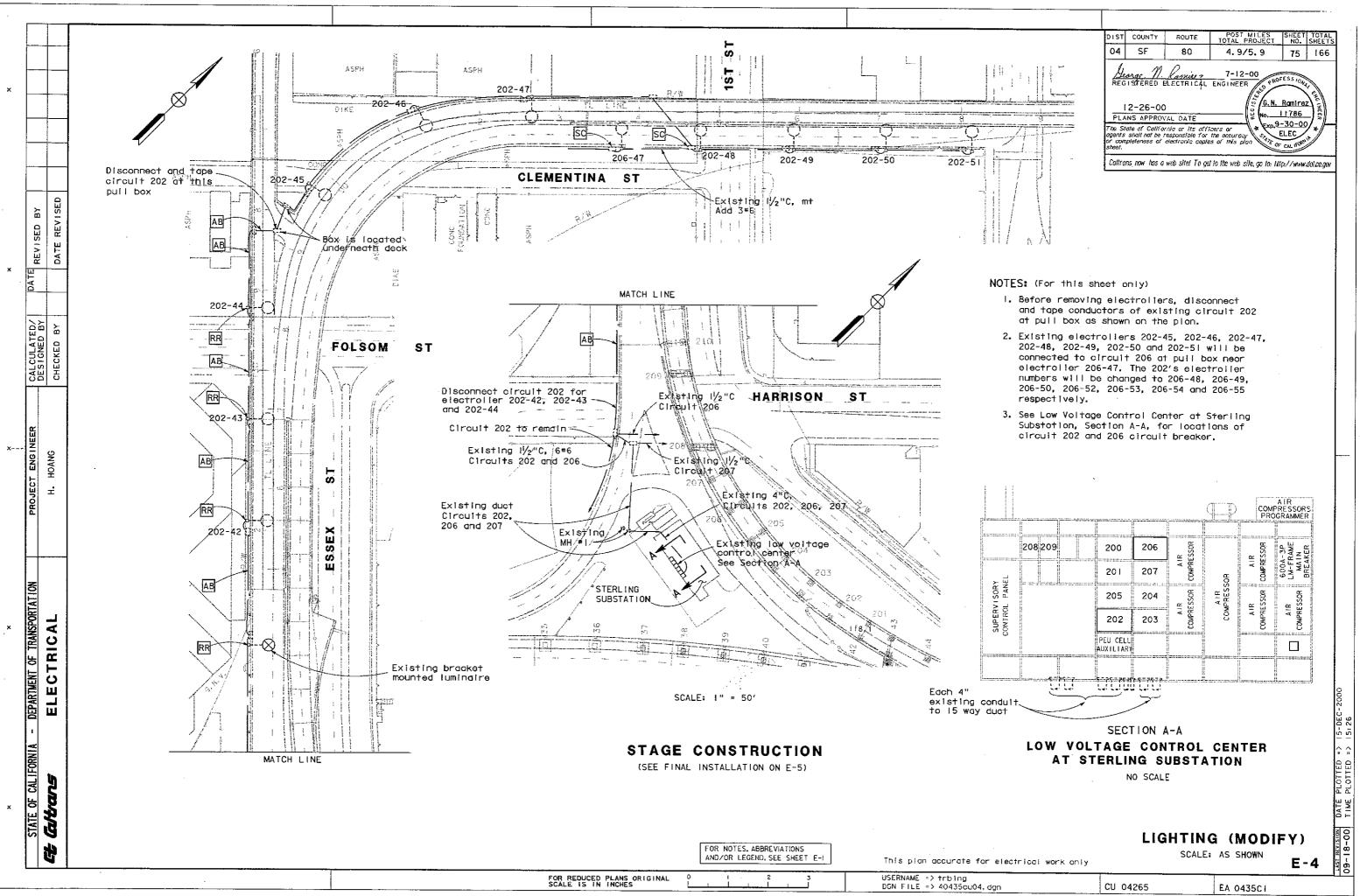
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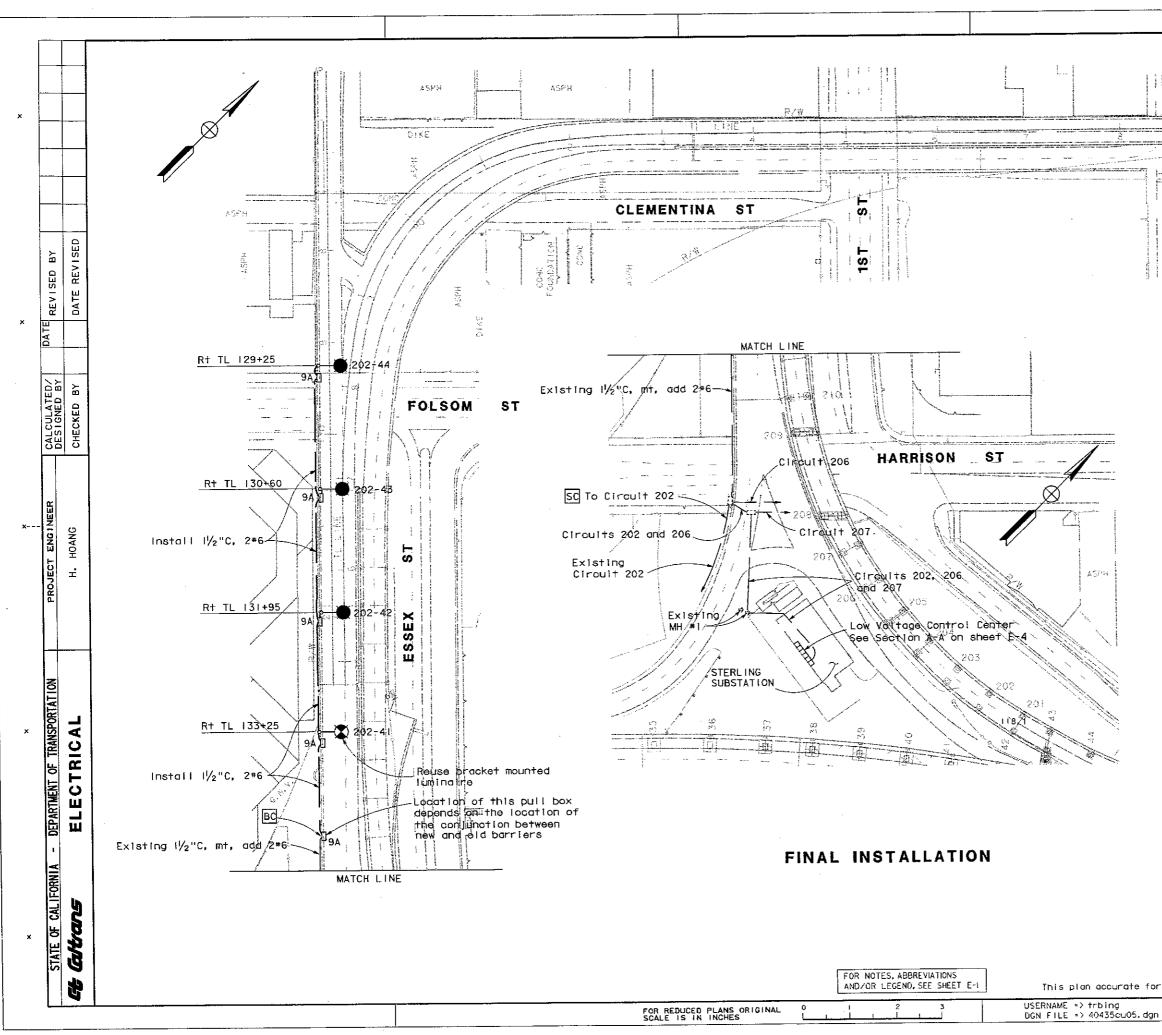
LAST REVISION











	DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL NO. SHEETS
	04	SF	80	4.9/5.9	76 166
	PL/ The States	2-26-00	VAL DATE prote or its off responsible for	No.	Remirez 11786 -30-00 * CL. WORK
	Callr	ans now has d	n web sile! To g	el to the web sife, go to: h	ltp://www.dol.ca.go/
100 million (100 m					

NOTE:

Electroliers and bracket-mounted luminaires shown on this sheet are RR from Stage Construction.



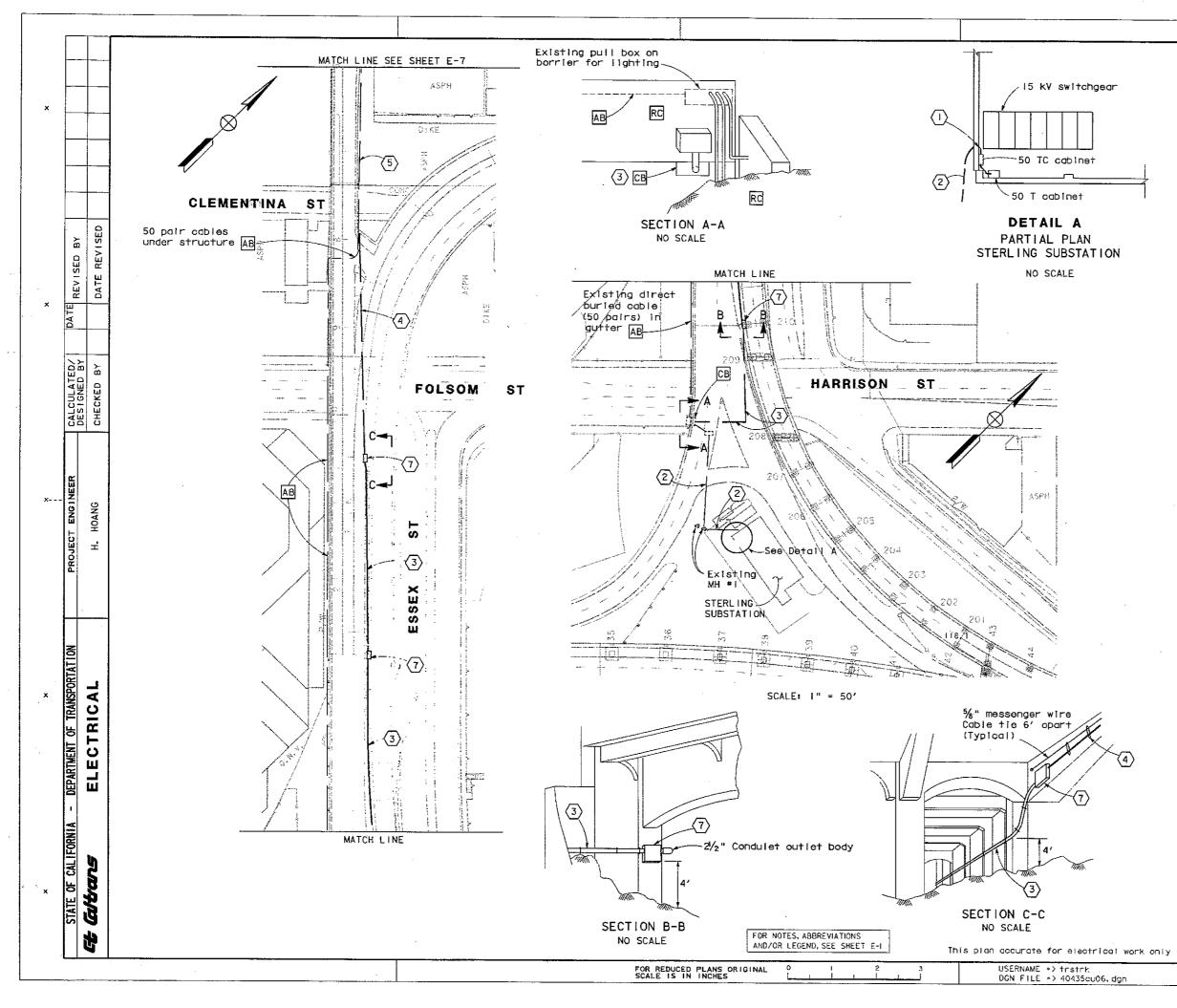
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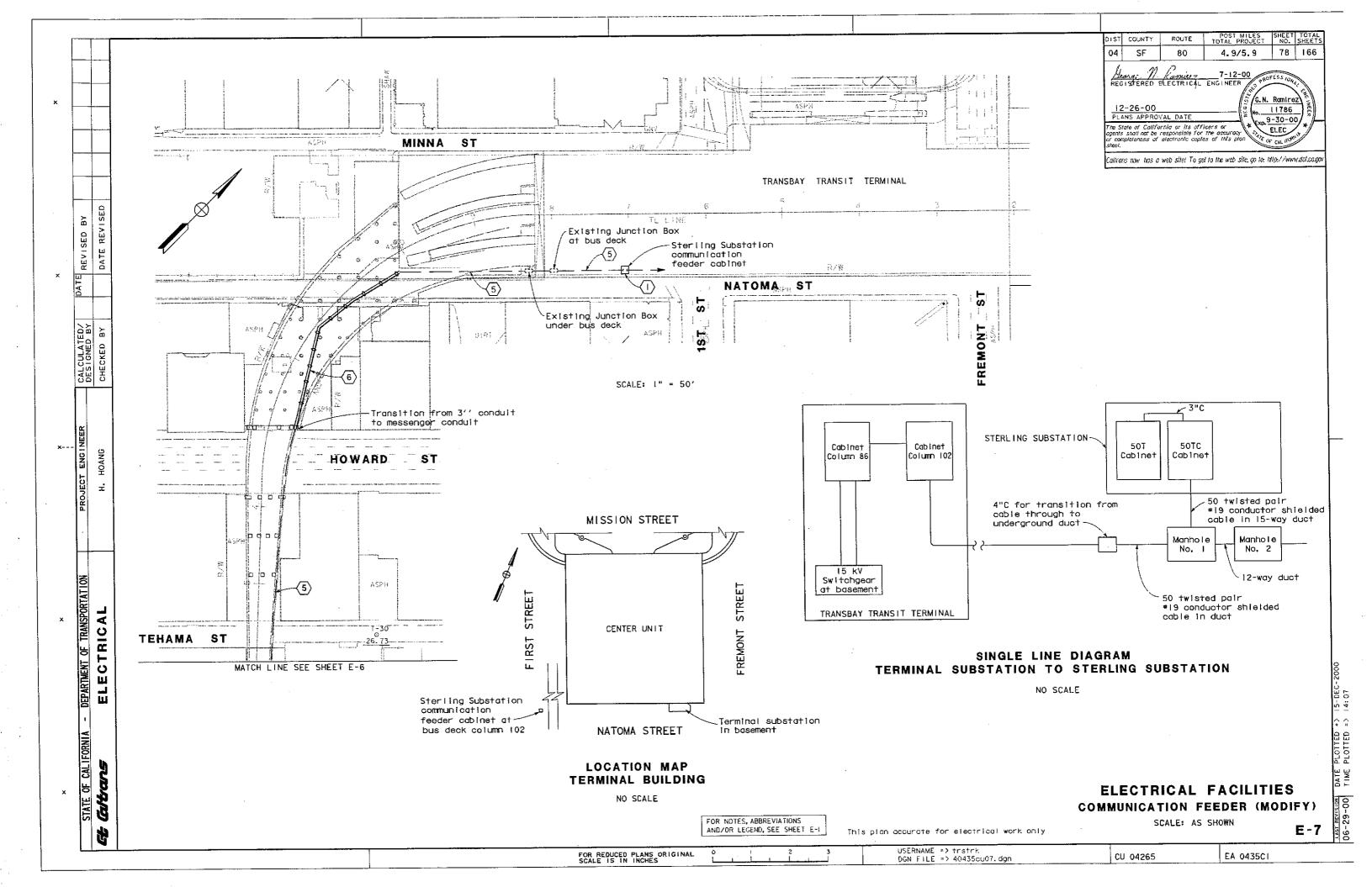
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		DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS							
		04	SF	80	4.9/5.9	77	166							
		<u>H</u>	arge M.	Ramine ?	7 <u>-12-00</u> 0	ESSIA								
		REG	REGISTERED ELECTRICAL ENGINEER											
			12-26-00											
		The S	ANS APPROV	rtia or its offi	cers or k Exp. 9	-30-00	/ <u>↓</u>							
		or con sheet.	completeness of electronic copies of this plan											
		Caltra	ns now has a	web site! To ge	t to the web site, go to: h		Joi Lagov							
			-											
NOTE	S: (F	or s	sheets E	-6 and E	-7 only)		-							
۱.	Dime	nsto	ns show	for ext	isting struct	⊔res								
	are mino	take r va	n from (riation:	construct s are to	tion drawings be anticipat	and ed.								
	The	Con+	ractor :	shall fì€	eld verify an	ď								
	cond			1310113 11	o fit existin	g								
2.					structure memi									
	cobl	e wh	nstallation of messenger wire and where required in the field.											
3.	Before any work, coordinate down time with the Engineer.													
	WEILI	me	Engine	er.										
PROJ	ЕСТ	NOT	ES: (Fo	or sheets	E-6 and E-7	on (y)								
$\langle n \rangle$														
\cup	(!) Remove existing 50 twisted pair #20 conductor shielded cable, add 50 twisted poir #20 conductor shielded cable.													
	Cond	ucto	rs of n e	ev cable	will be inst									
				n as rema In 50TC a	oved conducto cabinet.	rs at								
2					ed pair #20									
	twis	ucto ted	r shield pair cor	ded cable nductor s	e in 4"C, add shielded cable	50 B.								
3	Insta	. 11	2½"C, e	xposed,	appropriate d									
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$\left< \frac{5}{5} \right>$	Exist	ting Ided	3"C, 50 cable,) twisted Remove e	l pair #20 con existing cable	nducto a.	r							
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	condi	ucto	r shleid	ded cable	a, cable tie !	5'	15-DEC-2000 14104							
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						DIST COUNTY ROUTE POST MILES SHEET TOTAL TOTAL PROJECT NO. SHEETS 04 SF 80 4.9/5.9 79 166
		ELECTROLIERS				
}		Double arm lighting standard			OFFIT AND WALL	Hearge M. Conner 9-19-00 POFESSION
×				MOL	INTED LUMINAIRES	
				_	Pendant, 70 W HPS	12-26-00
ŀ		ROADWAY (F) Foundation for future electrolier		- 1	unless otherwise specified.	PLANS APPROVAL DATE
		Image: Structure Image: Structure		- 0	Flush, 70 W HPS	agents shall not be responsible for the acuracy or completeness of electronic copies of this plan steel.
		NOTES			unless otherwise specified.	California now has a web site! To get to the web site, go to: http://www.doi.ca.go/
ŀ		STRUCTURE I. Luminaires shall be 310 W HPS when insta	-		Wall surface, 70 W HPS unless otherwise specified.	
		22, 22D on Type 21, 21D, 22, 22D, 30, 31 and 32 Star ROADWAY otherwise specified, Luminaires shall be		⊲-⊗	Existing soffit or wall luminaire	
	۶ED SED	HPS when installed on other type stand			to remain unmodified.	EQUIPMENT INDENTIFICATION
		ROADWAY Or poles, unless otherwise specified, Z. Luminaires shall be the cutoff type, AN			Existing soffit or wall luminaire to be modified as specified.	
	SED REV				NOTE	ILLUMINATED SIGN IDENTIFICATION NUMBER:
	REVI DATE	specified,		I	Arrow indicates "street side"	Sign No. 12345
×ī		32 3. Variations noted adjacent to symbol or ROADWAY			of luminaire or glassware.	<u>10 MV SCI 1.0</u> Transformer rating (KVA)
	DAT	⊘─── Electroller (see project notes or project plans)	• •• •• •• •• •		EQUIPMENT DESIGNATIONS	
ſ		⊘— ♦ Luminaire on wood pole	PROPOSED	EXISTING	An ungrounded conductor	Number and type of fixtures standard or structure
-	>>.		AC-		A grounded conductor	
	CALCULATED/ DESIGNED BY CHECKED BY	¤∰¤ High mast lighting standard	AWG BC		American wire gage Bolt circle	ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:
		STANDARD NOTES	C CCTV	cctv	Conduit Closed circuit televis(on	Most arm length in meters, if shown. Do not place on standard or structure.
			CEC CKT	cec	Irrigation controller enclosure cabinet	Equipment number - Place on standard or structure
ļ	38 3	AB Abandon if applied to conduit, remove conductors.	CMS	стя	Circuit Changeoble messoge sign	Existing equipment numbers are shown in parenthesis
		BC Install pull box in existing conduit run.	DLC EMS	dic ems	Loop detector lead-in cable Extinguishable message sign	U/2" C,, 2"10, 15"14, 2 DLC,
		BP Pedastrian barricade, type as indicated on plan,	EVD FB	evd fb	Emergency vehicle cable Flashing beacon	Number and size of conductors and cables
	e E	CB Install conduit into existing pull box.	FBCA HAR	fbca	Flashing beacon control assembly	Size of conduit in millimeters
x	CIN CIN	CC Connect new and existing conduit. Remove existing conductors and install conductors as indicated.		har hex	Highway advisory radio Hexagonal	øl, ø2, ø2P, etc. Traffic phase identification for signal faces,
		CF Conduit to remain for future use.Remove canductors. Install	HPS IISNS	hps lisns	High pressure sodium Internally illuminated street name sign	detectors and phase diagrams
	JECT EN JENSON	pull wire or rope.	LMA LPS	lma Ips	Luminaire mast arm Low pressure sodium	
	PROJECT JENS	DH Detector handhole, Type A unless otherwise indicated.	LTG LUM	İtg	Lighting	1 2 3 Project note numbers
	۲, T	FA Foundation to be abandoned.	MC	lum mc	Luminaire Marcury contactor	(A) (B) (C) Equipment description, installation or item numbers
		IS Install State-furnished sign on signal mast arm.	MLC M/M	mic m/m	Magnetometer detector lead-in cable Multiple to multiple transformer	
		NS No slip base on standard.	M Ť M TG	mt mtg	Conduit with pull wire or rope only Mounting	1 2 Gonduit run numbers
ľ		PEC Photoelectric control.	MV N	mγ	Mercury vapor lighting fixture Neutrai	
ļ	z I	PEU Photoelectric unit.	NC		Normally closed	SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):
		RC Equipment or material to be removed and become the property	NO PB	pb	Normaliy open Pull box	Wind velocity=80 mph
		of the contractor.	PEC PED	pec	Photoelectric control (Type I, II, III, IV or V Pedestrian	as shown) Case 3 arm loading
×	<u>s</u> <	RE Remove electroller, fuses and ballast. Tape ends of conductors.	PEU PPB	peu ppb	Photoelectric unit Pedestrian push button	LStandard type
		RL Relocate equipment.	RIS	טקק	Radio Interference suppressor	Standard Plan sheet number
	비	RR Remove and reuse equipment.	RL RM	rm	Relocated equipment Ramp matering	Detall number or letter
	5 U	RS Remove and salvage equipment.	SB	sbi sb	Slip base insert Slip base	
	ARTI L ARTI	SBI Install silp base insert.	SIC	sic	Signai interconnect cable	
	B E	SC Splice new to existing conductors.	SMA	sma	Signai Signai mast arm	
1		SD Service disconnect.	S/M SN	s/m	Series to multiple transformer Soild neutral	
	¥	SF Standard to remain for future use, Remove luminaire, pole conductors, fuses and ballast. Tape disconnects.	SNS SP	SD	Street name sign Service point	
	NNO	TSP Telephone service point.	TDC TMS	tđc	Telephone demarcation cabinet Traffic monitoring station	
	1 b		VEH	vəh	Vehicle	P
	of california and		XFMR	xfmr	Transformer	ے اس
						ELECTRICAL DETAILS
	STATE Gafe					SYMBOLS AND ABBREVIATIONS
	ť					NO SCALE E-8

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		<u>C0</u>	NDUIT			EQUIPMENT		
	PROPOSED	EXISTING		PROPOSED	EXISTING			
			Conduit-Lighting, unless otherwise indicated or noted		·····	Pedestrian signal		
			Traffic signal conduit	Ô	٢	Pedestrian push button post		
			Communication conduit	<u> </u>		Pedestrian barricade		
ISED	T		Sprinkler control conduit Telephone conduit Fire alarm conduit	◄	~:	Vehicle signal face, 3-Section: 8" red, yellow and green sections. 12" sections for SMA mounted.	PROPOSED	EXIS
REV			Conduit termination (Detail C, ES-78 in structures)	⊿⊸		Vehicle signal face with ongle visor		[
DATE	R	r r	Conduit riser in structure	PV	~:	Modifications of basic symbols; "1" indicates all non-arrow sections louvered	3	94
	PROPOSED		EQUIPMENT	F ¥		"LG" Indicates iouvered green section only "PY" Indicates i2" programmed visibility sections "12" Indicates all 12" sections	$3 = N_0, 3\frac{1}{2}$ pull box 5 = N_0, 5 pull box	: :
		oh	Overhead lines			Vehicle signal face with backplate	6 = No. 6 puil box 7 = No. 7 (Ceiling pu	
CHECKED BY	^U		Wood pole "U" indicates utility owned			Vehicle signal face with 12" red, yellow and green left arrow sections	8 = No.8 (Pendant ; 9 = No.9 pull box 9A = No.9A pull box	-
EHE CHE	(—	(Pole guy-with anchor			Vehicle signal face with 12" red and yellow sections and 12" up green arrow		<u>v</u>
			Pad mount for ground - Mounted utility transformer			Vehicle signal face (5-Sectian) with 12" yellow and green right arrows and 8" red, yellow and green sections	5 J	9 1
щ		<u> </u>	— Service equipment enclosure type			Type Standard and attached signals		
JENSON LEE			Service equipment enclosure door indicates front of enclosure	₹ Ţ		Standard with signal most arm only and attached signals		
5	Ţ		Telephone demarcation cabinet		5-12-52 4-5-4-5-5 7-7-5-5-5	Type 33 Standard, Left-turn signal and sign	PROPOSED	EXI
	POLE-	MOUNTED	ERVICE DESIGNATION	₹ ^X Ţ	\$0\$ \$	Standard with luminaire and signal mast arms and attached signals		Ī.
•	ΤY		e of installation <u>†</u> → Pole height above grade			Cantilever flashing beacons Type 9 Frame, unless otherwise specified or indicated	o—o—	<u>ر.</u>
			_	. ∦ R_	<u>}</u> ,⊥.	Flashing beacon. One signal section with 12" iens, backplate and visor. "R" indicates red iens, "Y" indicates yellow iens.	-	<
CAL	<u>ILLUMINA</u> PROPOSED	TED OVERH	EAD SIGN STRUCTURES	\bowtie		Controller assembly. Door Indicates front of cabinet	DH	•
TRI			Overhead sign - Single post	•	0	Guard post		
С Ш			Overhead sign - Two post	0	(){ <u></u> }	Type i Standard-"Meter On"sign		
		1	Overhead sign - Mounted on structure			OUS EQUIPMENT		
	E B	51 公 茶	Overhead sign with roadway		<u>EXISTING</u>	. Changeable message sign		
	ð	ਜੋਂ ਹ	electrolier attached			Closed circuit television		-
5						Highway advisory radio		
<i>laltrans</i>		·		•	23			

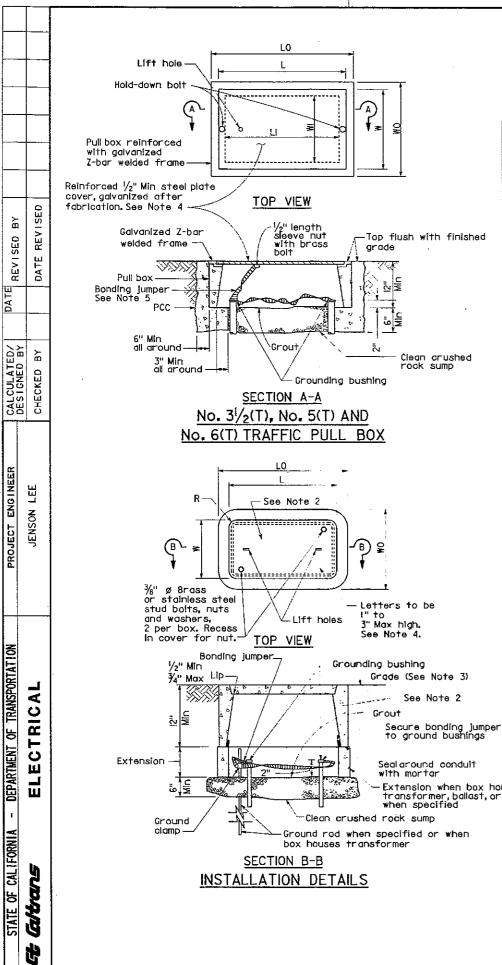
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DIMENSION TABLE											
		CONCRETE BOX			NO	N-PCC BOX	С	ONCRET	EORN	ION-PCC COV	ERS
Pull Box	Minimum * Thickness	Minimum Depth Box and Extension	LÔ	₩O	Minimum ** Thickness	Minimum Depth Box and Extension	L ¥	* # *	↔ R	Edge Thickness	Edge Taper
No. 31/2	"	No Extension	20"	4"	5/16"	No Extension	153/8	" 10½	" 1/s'	174"	1/8"
No. 5	l lu	22"	28"	18''	5/6"	20"	23 ^I /			' 2"	1/8"
No. 6	11/2"	24"	36"	23"	1/8"	20"	305	175/	" 11/4	2"	1/8"

* Excluding conduit web ** Top dimension

	DIMENSION TABLE											
	CONCRETE BOX NON-PCC BOX STEEL COVE									L COVER	,	
Pull 8ox	Minimum * Thickness	Minimum Depth Box or Extension	LO	₩O	LI	WI	Minimum Minimum Depth Box Thickness and Extension	٤ ××	W	**	R Edge Thickness	Edge Taper
No. $3\frac{1}{2}(T)$	2ª	11.11	20" +_	14" t	l" +_ I"	18" <u>+</u> l"	Does Not Apply	20"±	1374	"±	0 1⁄2" Min	None
No. 5(T)	2"		30" +_	18" +	14" ± "	24" ± 1"	Does Not Apply	27"±	161/2	"±	0 1/2" Min	None
No. 6(T)	2"	1"	36" +_	24" ±	18" ± "	30" ± l"	Does Not Apply	33"±	20	"±	0 <u>/2"</u> Min	None
	* Excluding conduit web ** Top dimension											

NOTES ON PULL BOXES

I. Traffic pull box shall be provided with steel cover and special concrete faoting. Steel cover shall have embossed non-skid pattern.

2. Steel reinforcing shall be as regularly used in the standard products of the respective manufacturer.

3. Top of pull boxes shall be flush with surrounding grade or top of adjacent curb, except that in unpaved areas where pull box is not immediately adjacent to and protected by a concrete foundation, pole ar other protective construction, the box shall be placed with its top 0.10 ft above surrounding grade. Where practicable, pull boxes shown in the vicinity of curbs shall be placed adjacent to the back of curb, and pull boxes shown adjacent to standards shall be placed on side of foundation facing away from traffic, unless otherwise noted. When pull box is installed in sidewalk area, the depth of the pull box shall be adjusted so that the top of the pull box is flushed with the top of the sidewalk.

- 4. Pull box covers shall be marked as follows.
 c. No. 3½ pull box.
 i) "SIGNAL" Traffic signal circuits with or without street and/or sign lighting circuits.
 - "ST LIGHTING" Street and/or sign lighting circuits where no voltage is above 600 V. "SERVICE" Service circuits between service point and service disconnect.

 - SPRINKLER-CONTR" Sprinkler control circuits, 50 V or less.
 - "CALTRANS" On all pull boxes, except pull boxes marked "SPRINKLER-CONTROL". "TELEPHONE" Telephone service,
- b. No. 5,6,9 or 9A pull boxes.
 I) "TRAFFIC SIGNAL" Traffic signal circuits with or without street and/or sign lighting circuits.
 2) "STREET LIGHTING-HIGH VOLTAGE" Street and/or sign lighting circuits where no voltage is above 600 V.
 3) "STREET LIGHTING-HIGH VOLTAGE" street and/or sign lighting circuits where voltage is above 600 V.
 - 4) "SERVICE" Service circuits between service point and service disconnect.
 5) "SPRINKLER-CONTROL" Sprinkler control circuits, 50 V or less.
 6) "IRRIGATION" Circuits to irrigation controller 120 V or more.
- 3) "RAMP METER" Ramp meter circuits.
 8) "COUNT STATION" Count and/or speed monitor circuits.
 9) "COMMUNICATION" Communication circuits.
- 10) "CALTRANS" On all pull boxes, except pull boxes marked "SPRINKLER-CONTROL".
- 1) "TELEPHONE" Telephone service. 12) "TOS COMMUNICATIONS" TOS communications trunk line.
- 13) "TDS PDWER" TOS power.
- 14) "TDC POWER" Telephone demarcation cabinet power.
- 15) "CCTV" Closed circuit televisian circuits.
- 16) "TMS" Traffic monitoring station circuits.
- (7) "CMS" Changeable message sign circuits,
- 18) "HAR" Highway advisory radio circuits.

5. Bonding jumper for metal covers shall be 36 inch long, minimum.

6. The nominal dimensions of the opening in which the cover sets shall be the same as the cover dimensions except the length and width dimensions shall be $l_{8}^{"}$ greater.

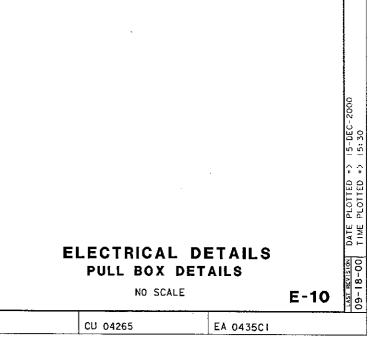
- Extension when box houses 7. Covers and boxes shall be interchangeable with California standard male and female gages. When transformer, ballast, or interchanged with a standard male or female gage, the top surfaces shall be flush within 1/6". Top outside edge of all concrete covers and pull boxes shall have a 1/4" minimum radius.

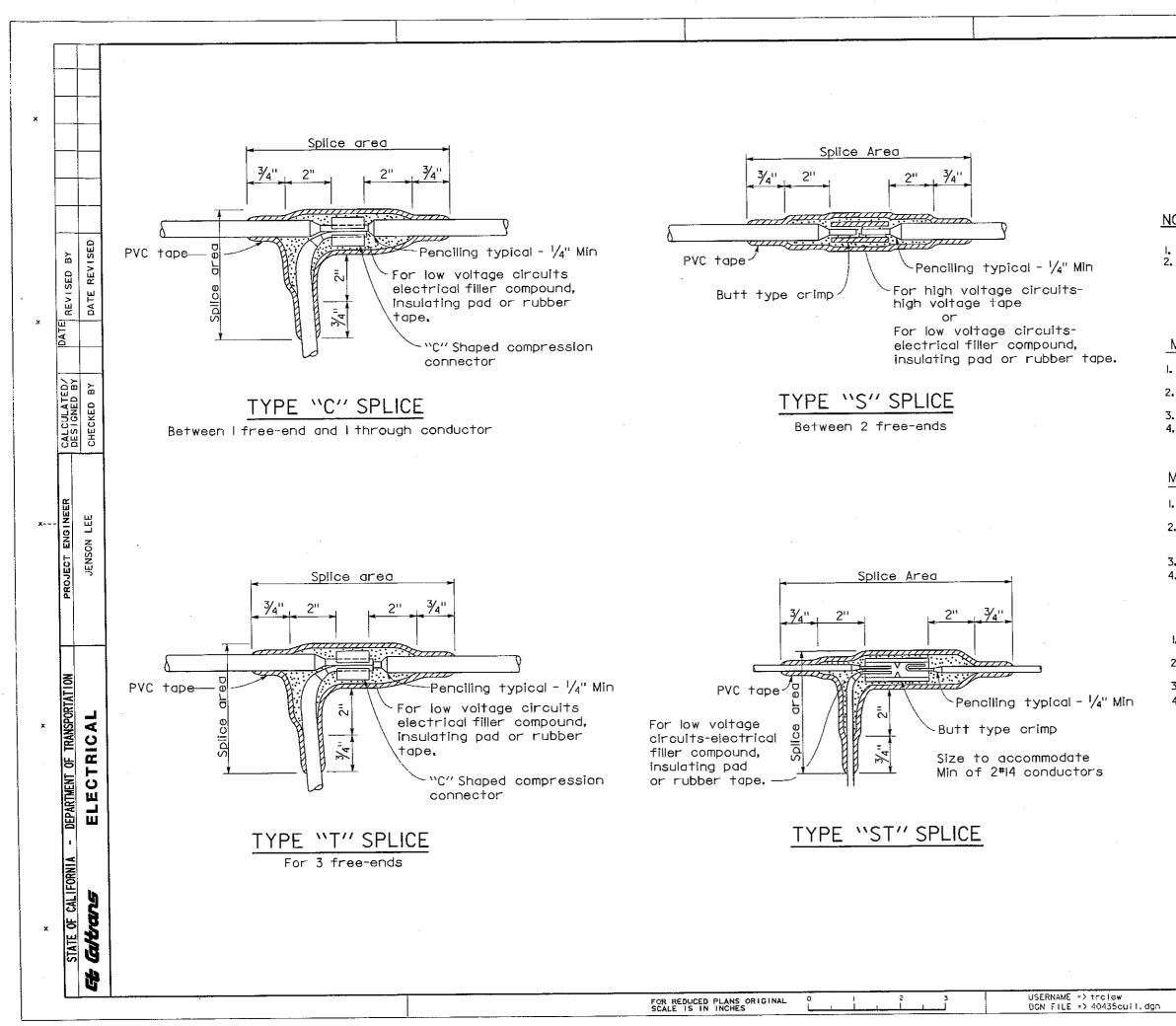
8. Pull box shall not be installed within the boundaries of new or existing curb ramps.

9. Pull boxes for electroliers and signal standards shall be located at the same station (±5 ft) as the adjacent electrolier or signal standard. Pull boxes shall be placed adjacent to back of curb or edge of shoulder except where this is impractical, a box may be placed in another suitable protected and accessible location.

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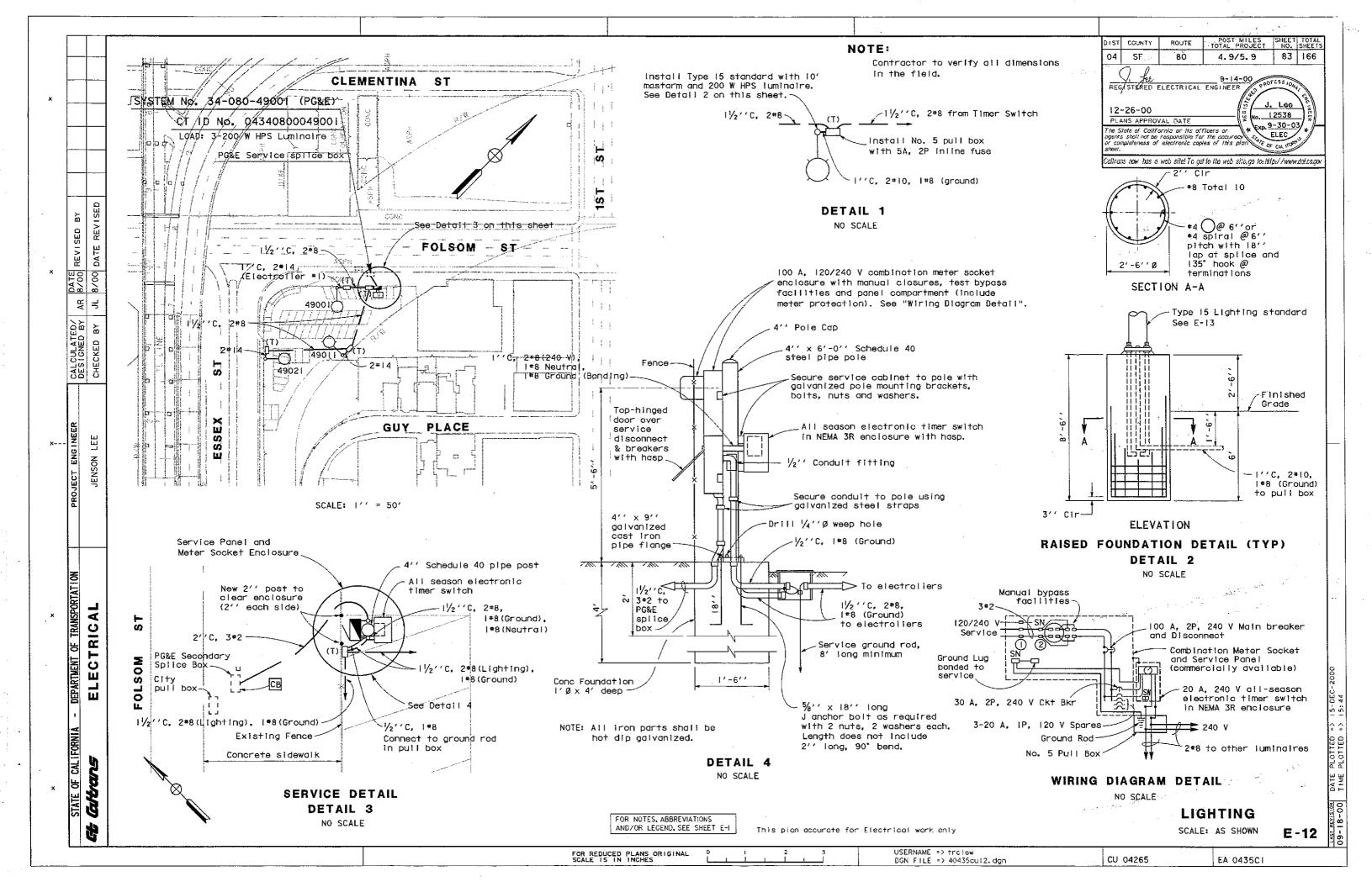


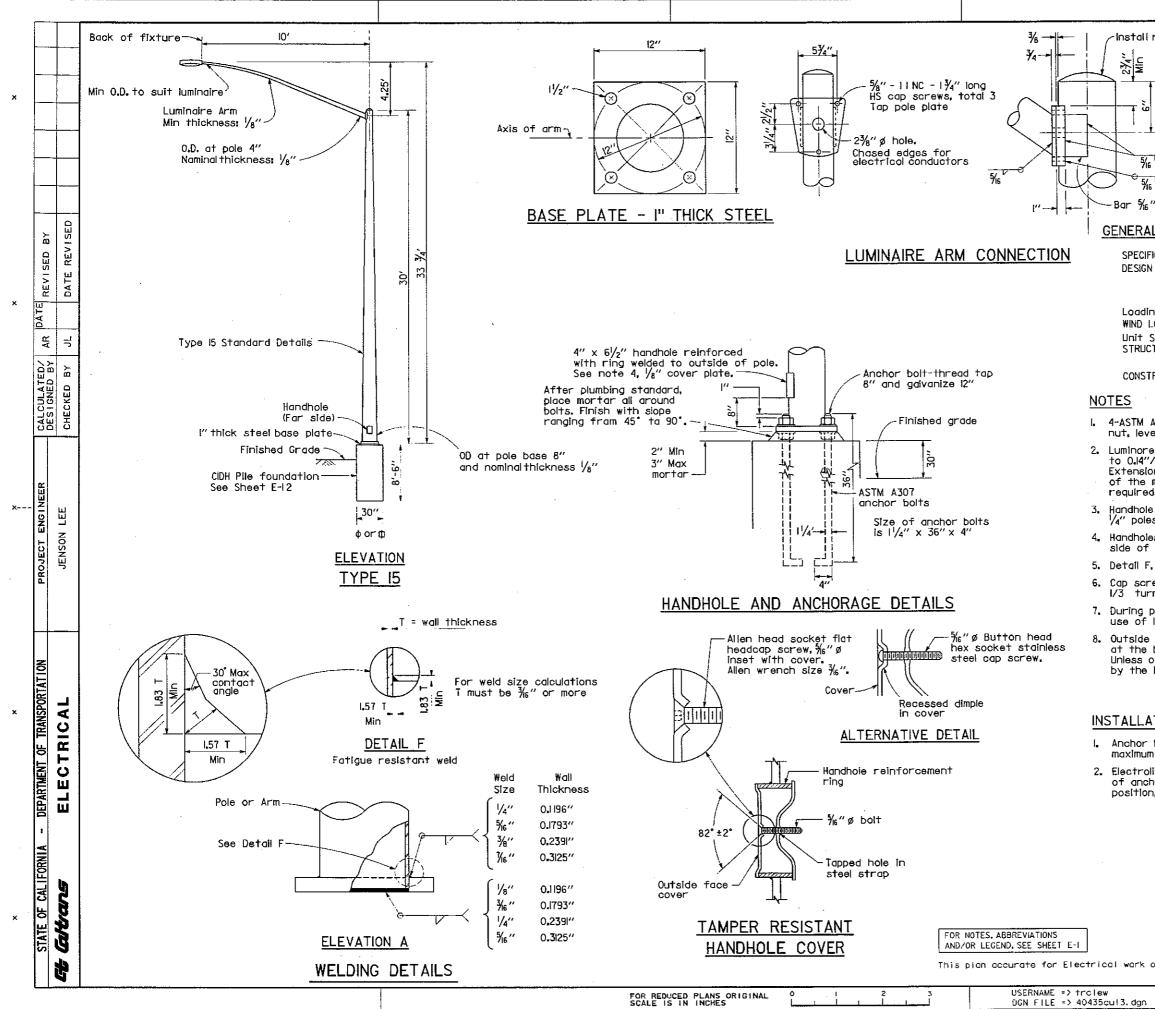


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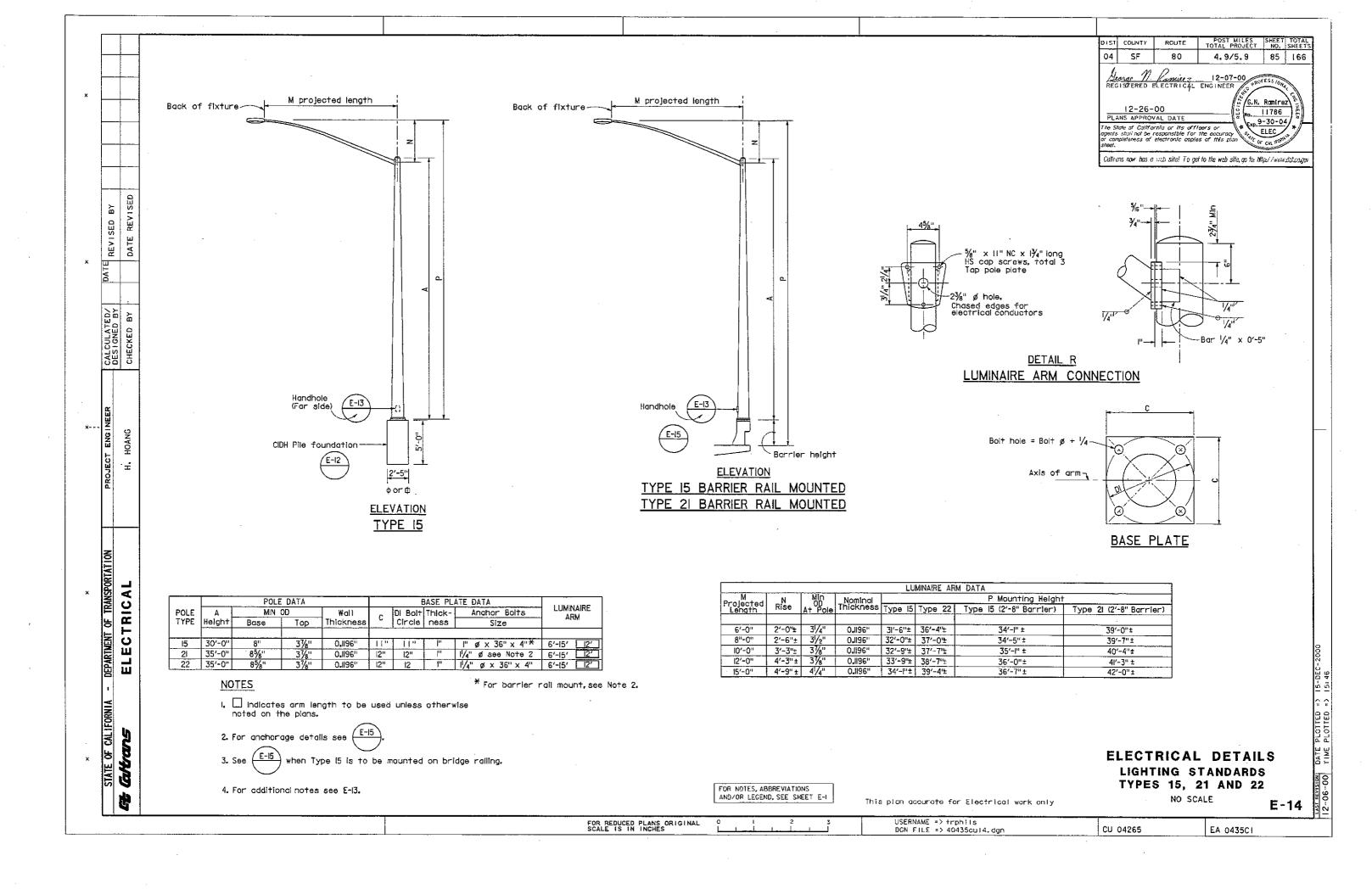
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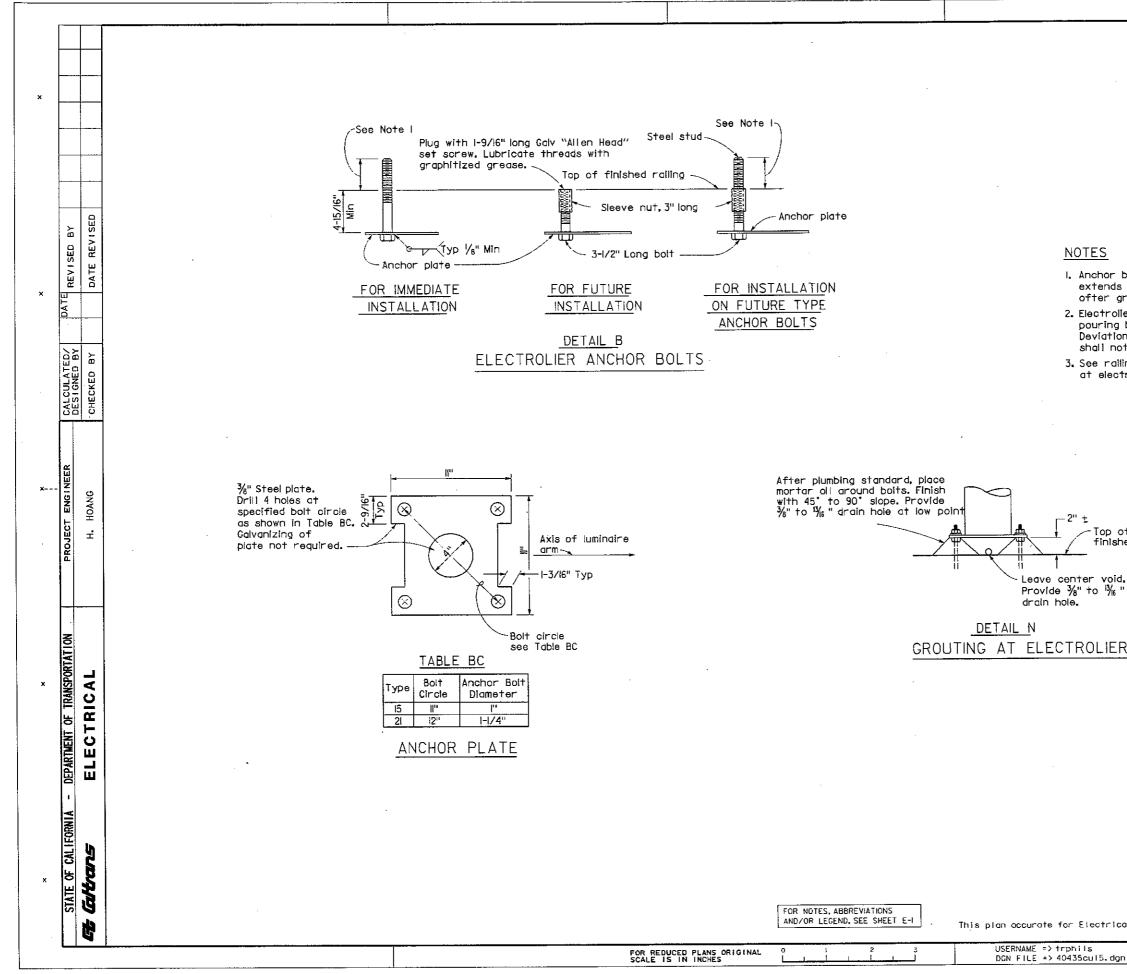
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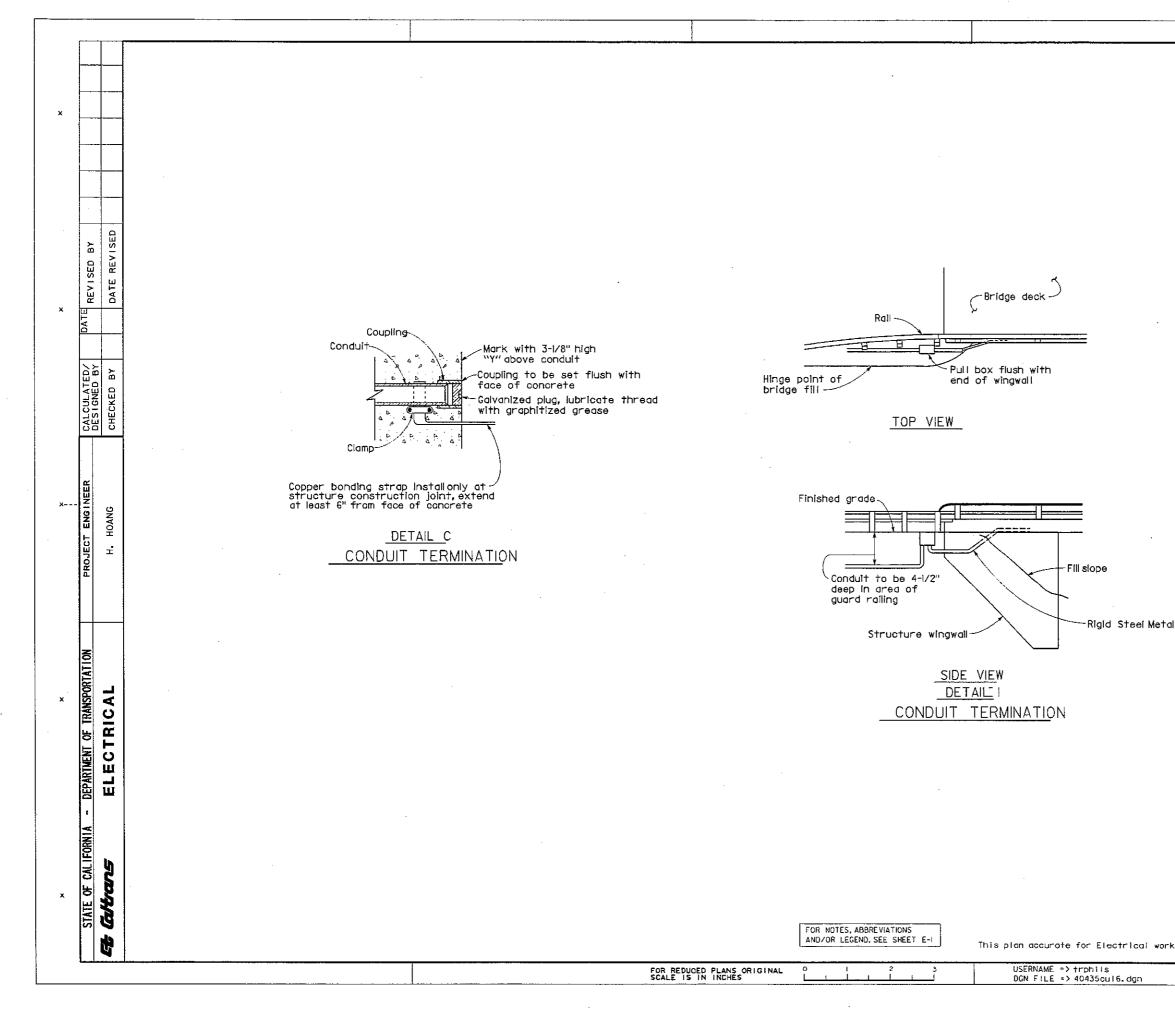


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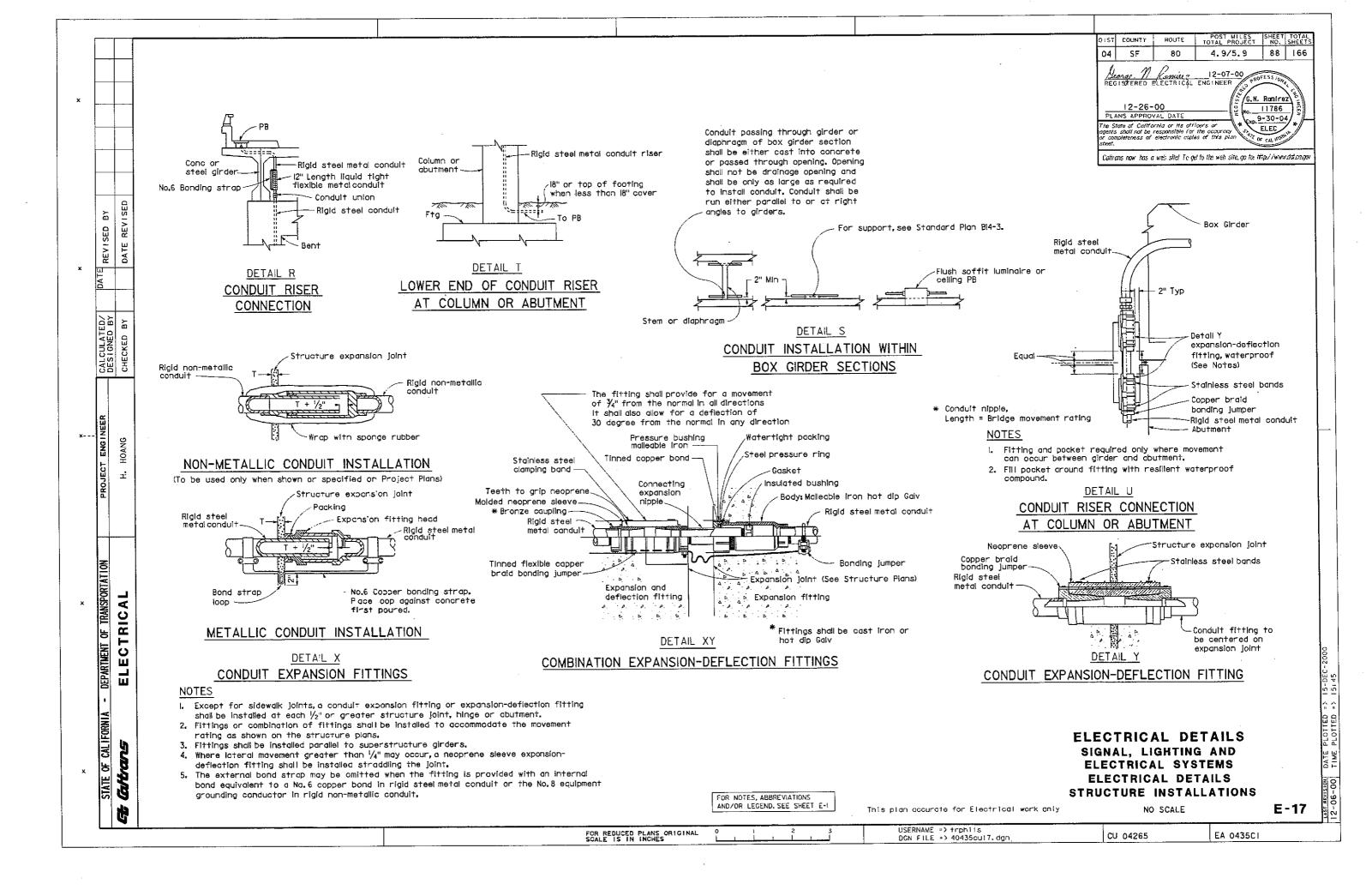


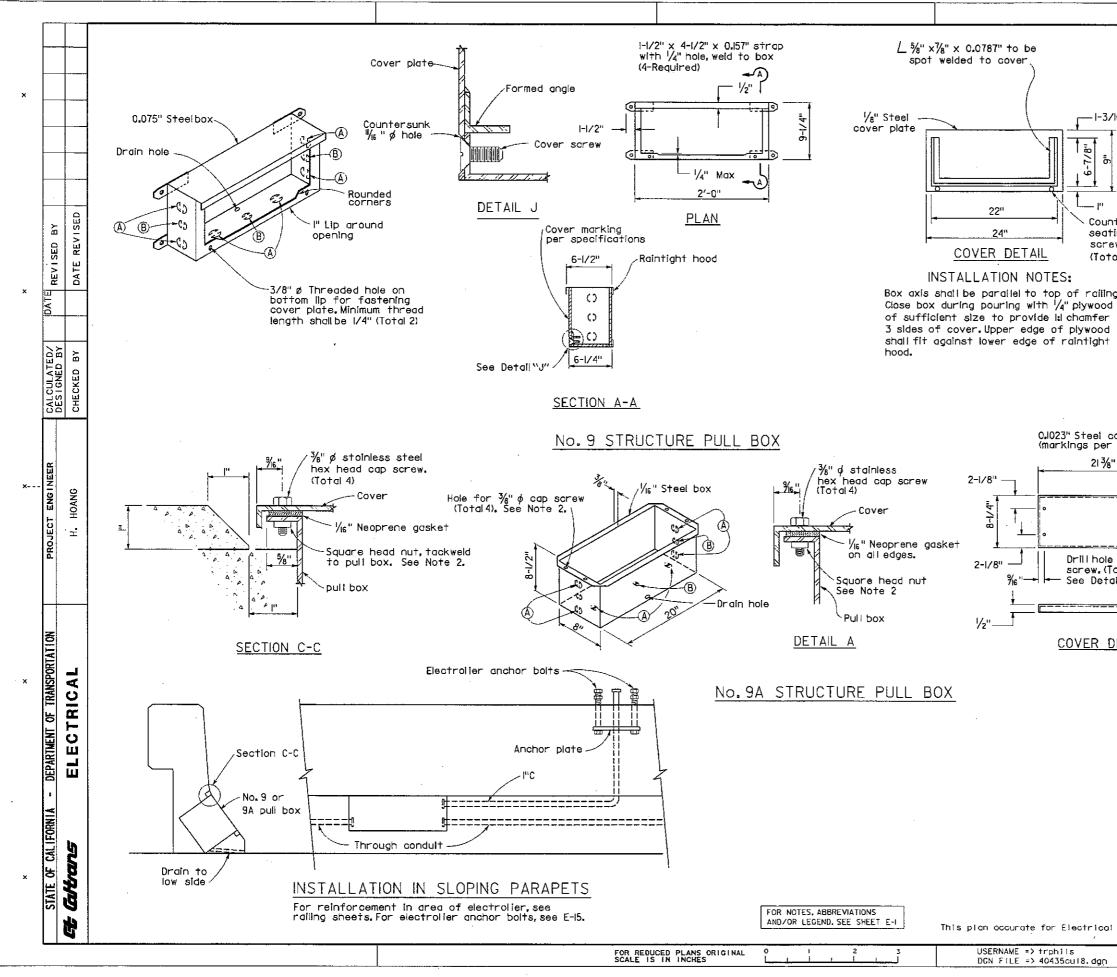


									
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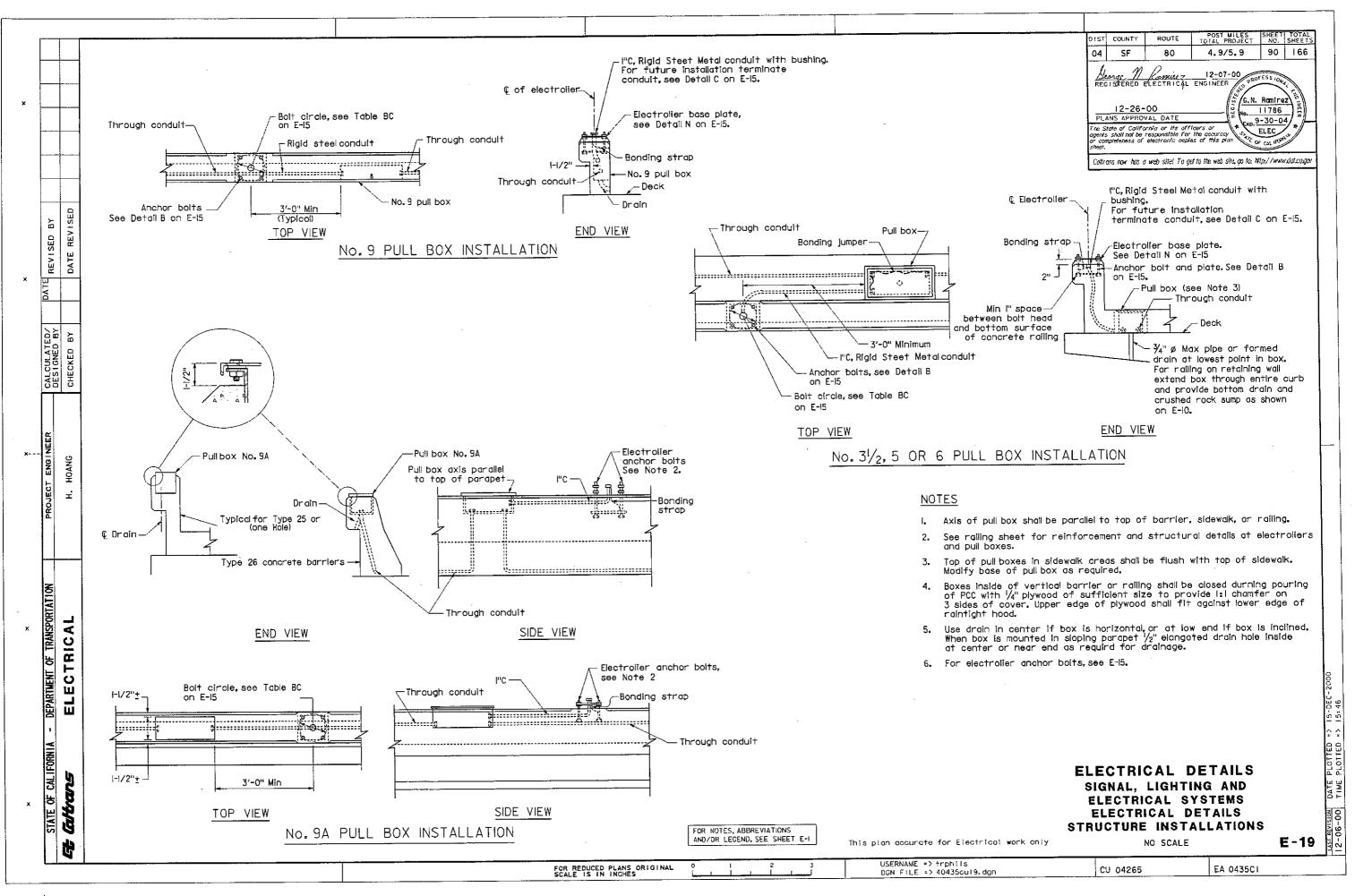


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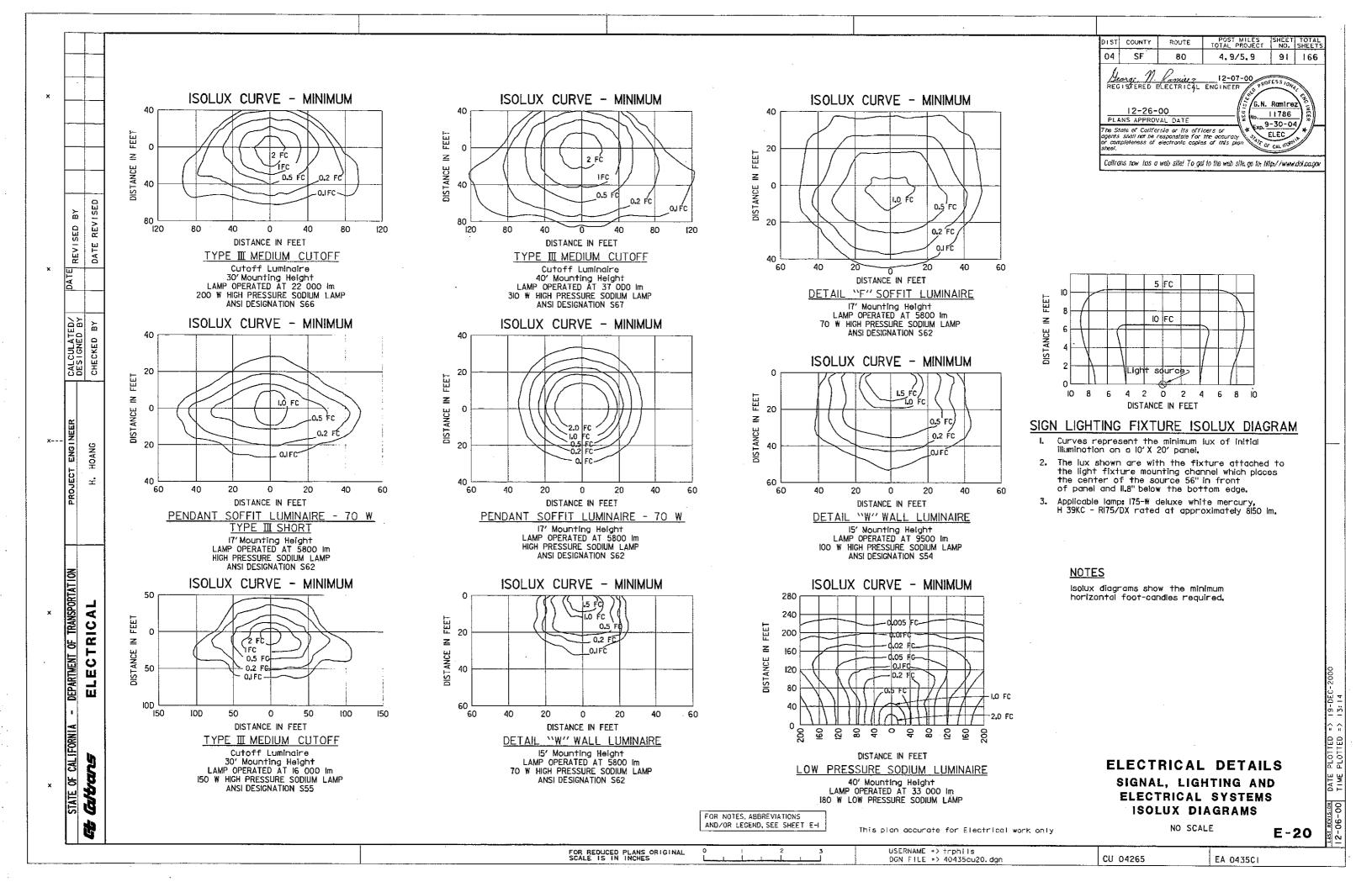


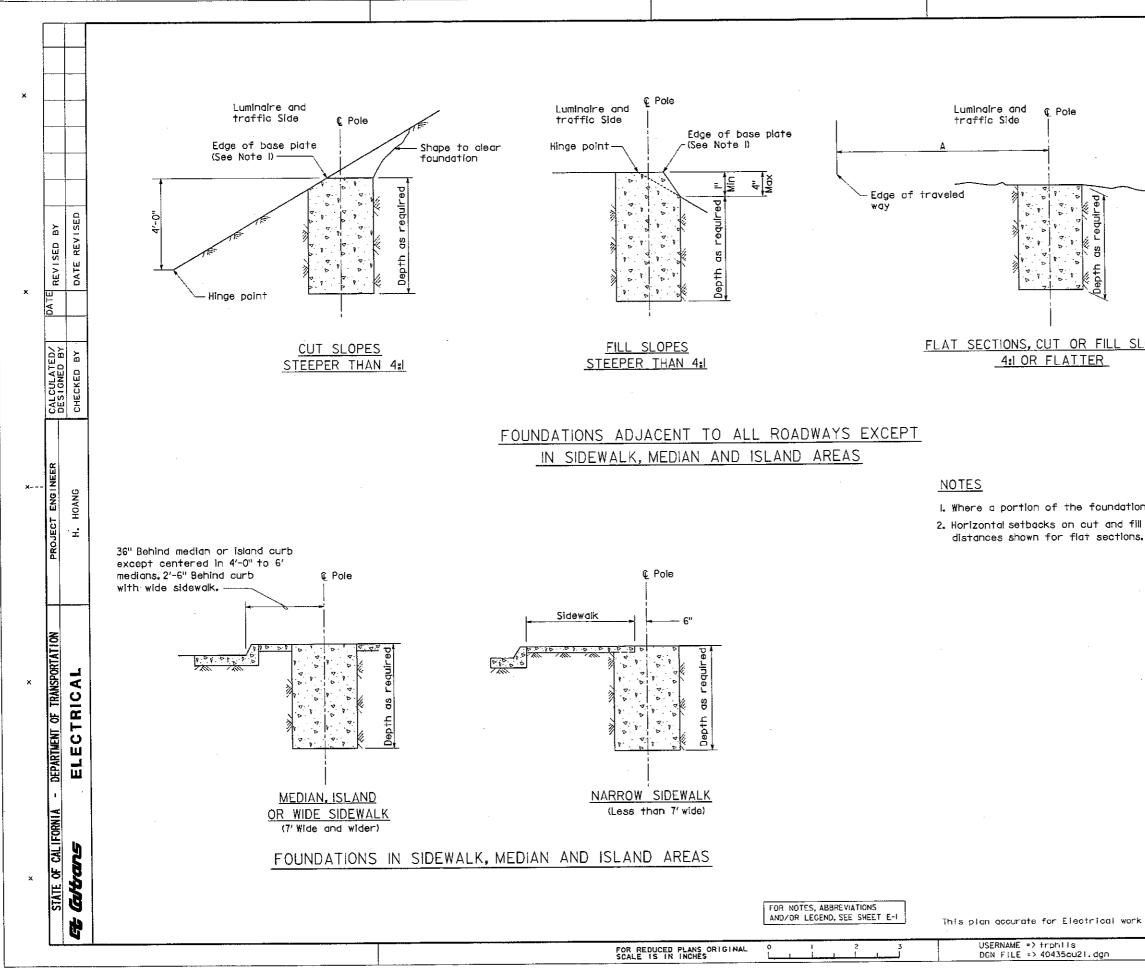
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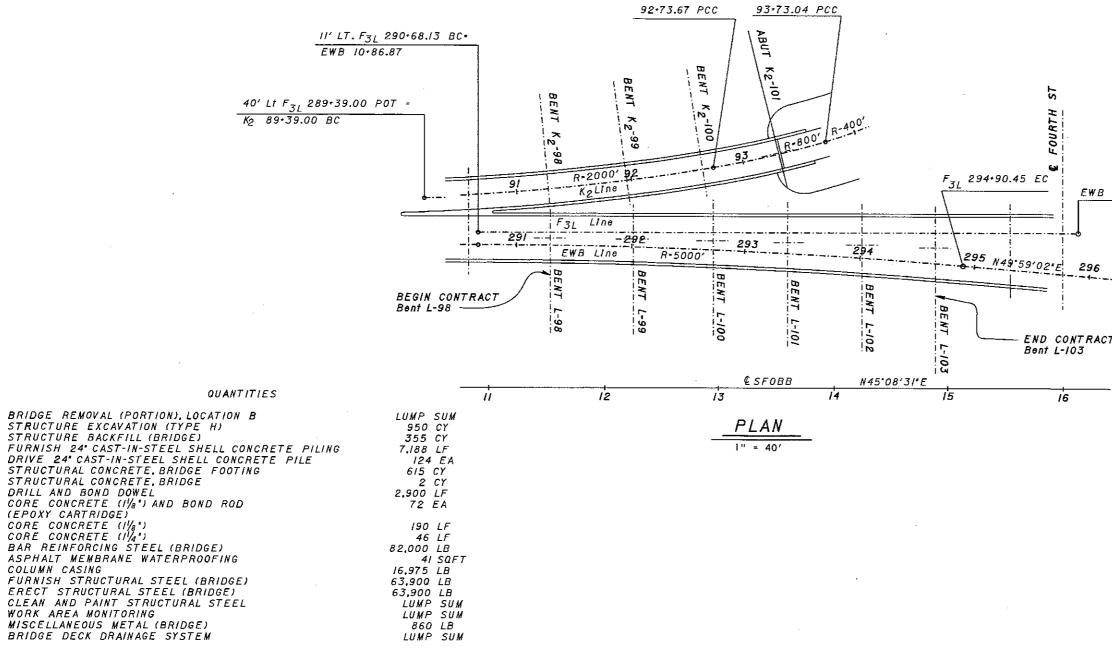


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SLOPES			TYPE 32 31, 36-20	(DIMENSIO) 30' Mir	n n rm h

Where a portion of the foundation is above grade the top edges shall have a 1" chamfer.
 Horizontal setbacks on cut and fill slopes steeper than 4: shall not exceed the distances shown for flat sections.

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SHEET NO. TITLE

I. PROJECT PLAN 2. INDEX TO PLANS 3. STRUCTURE PLAN 4. ABUTMENT K2-101 5. FOOTING DETAILS - BENTS L98-L103 6. FOOTING DETAILS - BENT K2-98 7. FOOTING DETAILS - BENT K2-99, K2-100 8. BENT DETAILS L98-LIO3 9. BENT DETAILS NO. 1 K2-98 - K2-100 10. BENT DETAILS NO. 2 K2-99, K2-100 II. BRACKET DETAILS 12. BEARING RETROFIT NO. 1 13. BEARING RETROFIT NO. 2 14. BEARING RETROFIT DETAILS NO.1 15. BEARING RETROFIT DETAILS NO. 2 16. BEARING RETROFIT DETAILS NO. 3 17. BEARING RETROFIT DETAILS NO.4 IB. DECK DRAIN DETAILS No. 1 19. DECK DRAIN DETAILS No. 2 20. PIPE PILE DETAILS 21. STEEL COLUMN CASINGS 22. LIMIT OF PAYMENT FOR EXCAVATION & BACKFILL LIMITS 23. LOG OF TEST BORINGS 1 OF 5 24. LOG OF TEST BORINGS 2 OF 5 25. LOG OF TEST BORINGS 3 OF 5 26. LOG OF TEST BORINGS 4 OF 5 27. LOG OF TEST BORINGS 5 OF 5

NOTES:

Elevations shawn throughout these plans are based on the As built MLLW datum. Subtract 3.1 ft.from the elevations to obtain MSL datum elevations.

Paint Bridge Name, Bridge No. and Bent No. at 10'above footing at all overcrossing bent locations. Paint Bent No. 10' above FG elevation at all other bent locations.

For all *5 and *6 drill and band dowels in 3:1 sloped hole, epoxy cartridges may be used at the option of the Contractor.

Existing girder cable restrainers may be temporarily disassembled and reassembled as needed. Do not remove more than 50% of cable restrainers per bent at one time.

GË	NERAL N	OTËS
LOAD	FACTOR	DESIGN

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with interims and Revisions by CALTR AASHTO LRFD Bridge Design Specifications, 1st Editi Section 6

EXIST REINFORCED CONCRETE (ASSUMED FOR RETROFIT

f_y = 40,000 psi

f' = 5,000 psl

REINFORCED CONCRETE (NEW CONSTRUCTION):

f_y = 60,000 psl

f_c = 3,250 psl

n • 9

EXIST STRUCTURAL STEEL (ASSUMED FOR RETROFIT EV. ASTM AT

fy • 36,000 psi

STRUCTURAL STEEL (NEW CONSTRUCTION):

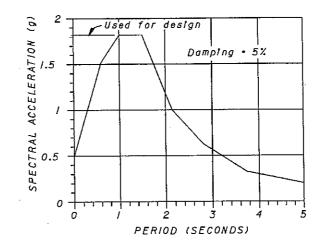
ASTM A36

f_y = 36,000 psi

-Exclude threads from shear plane for all bolts -All HS threaded rods shall be A449

-Holes for bolts are standard size unless otherwise specif -Standard oversized and slotted holes are to have hardene -All bolted connections are "Bearing Type" unless noted oth -Grillage Assemblies to be considered as fracture critical, primary members (FCM) for inspection purposes

SEISMIC LOADING: SEE DESIGN RESPONSE SPECTRA GRA

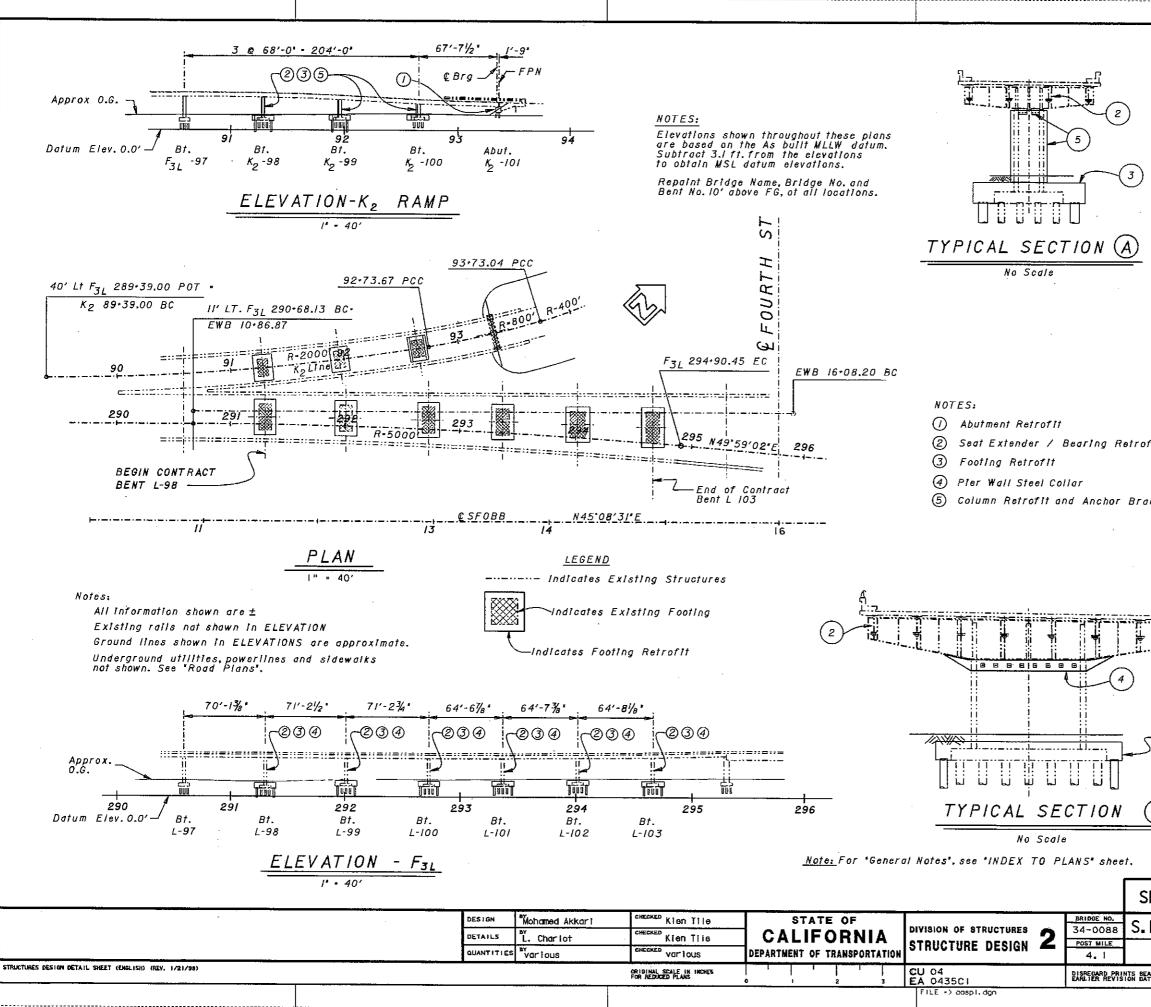


SEISMIC LATERAL SPREAD LOADS: 41k/ft OF

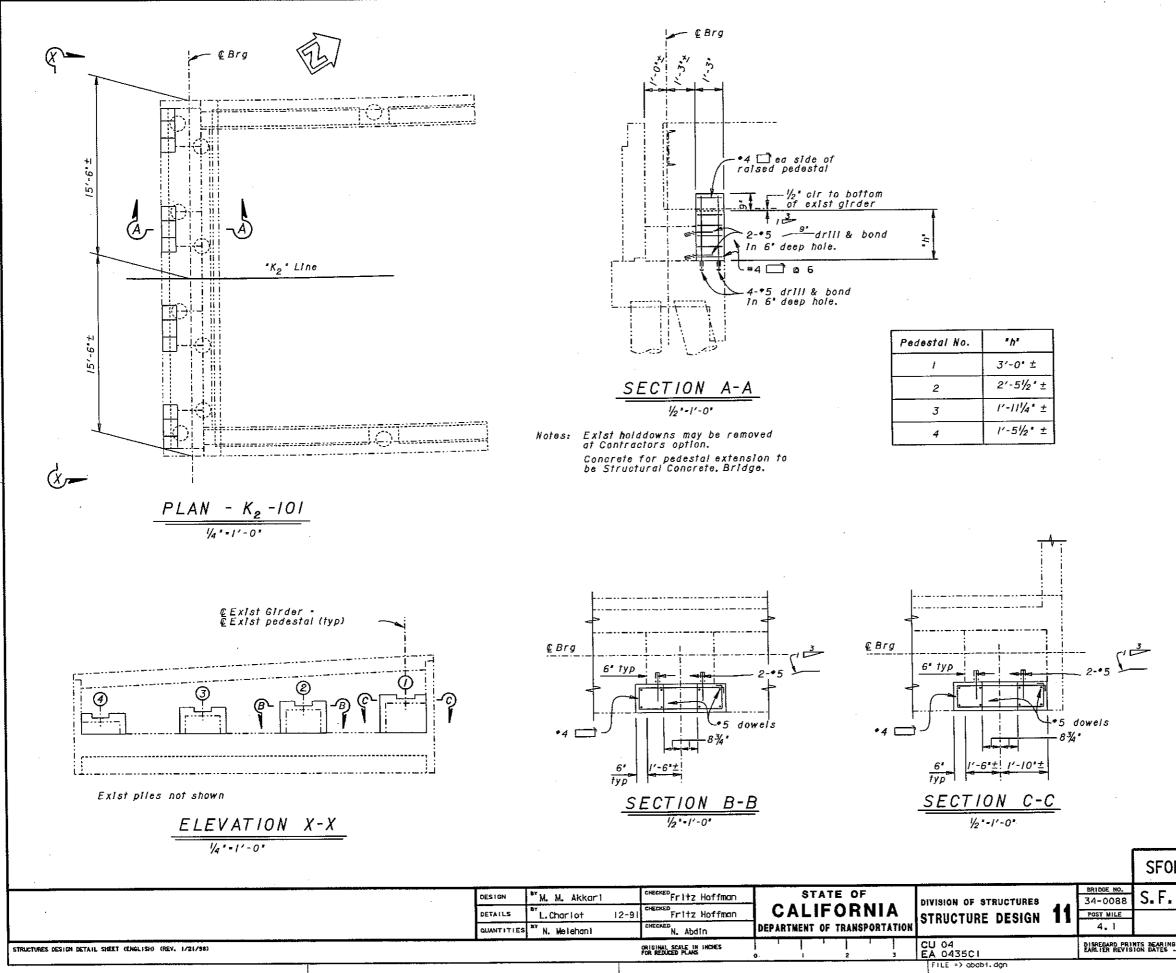
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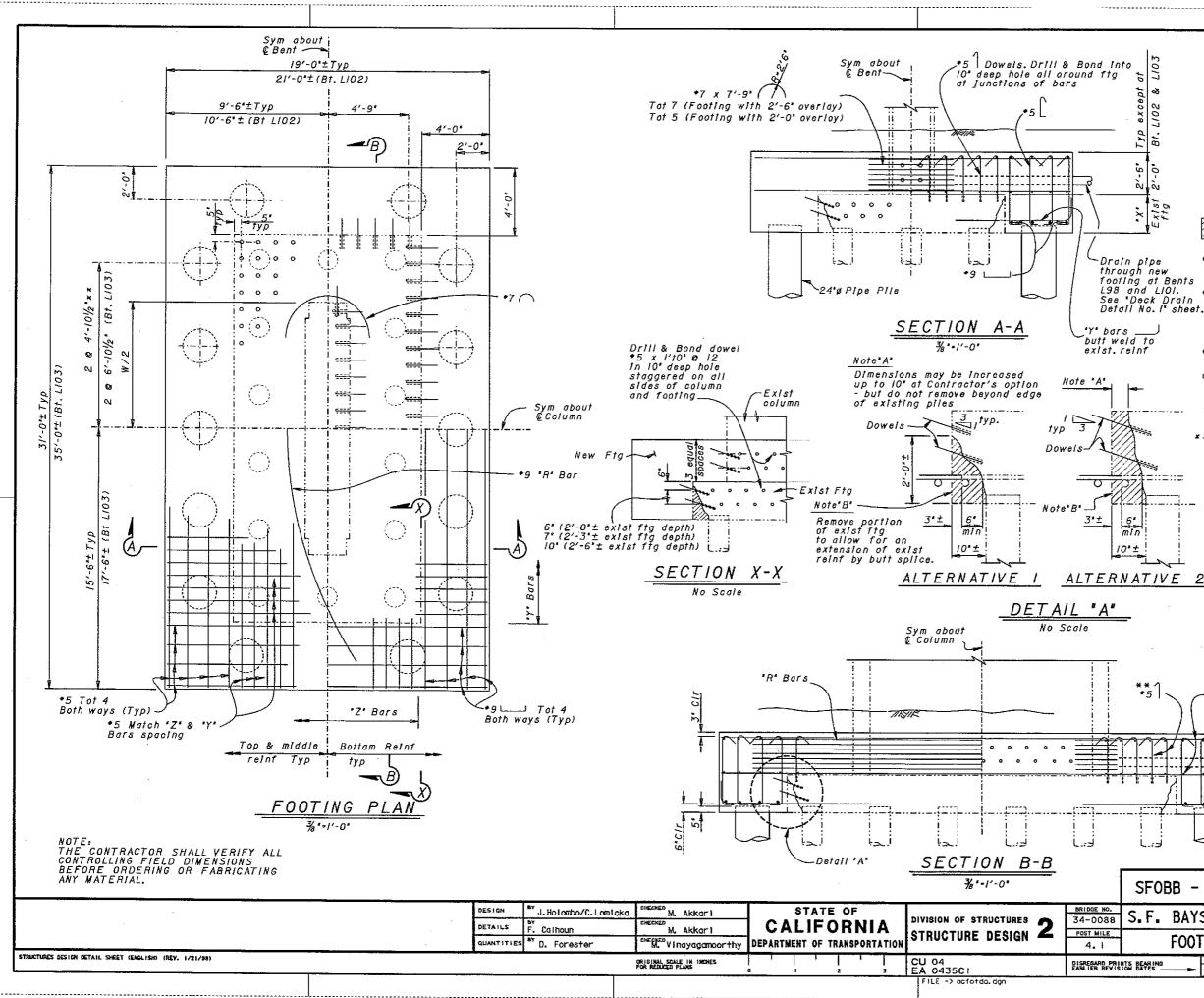
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5	S.F. BAYSHORE VIADUCT (Bent L98 to L103)
Ŧ	INDEX TO PLANS



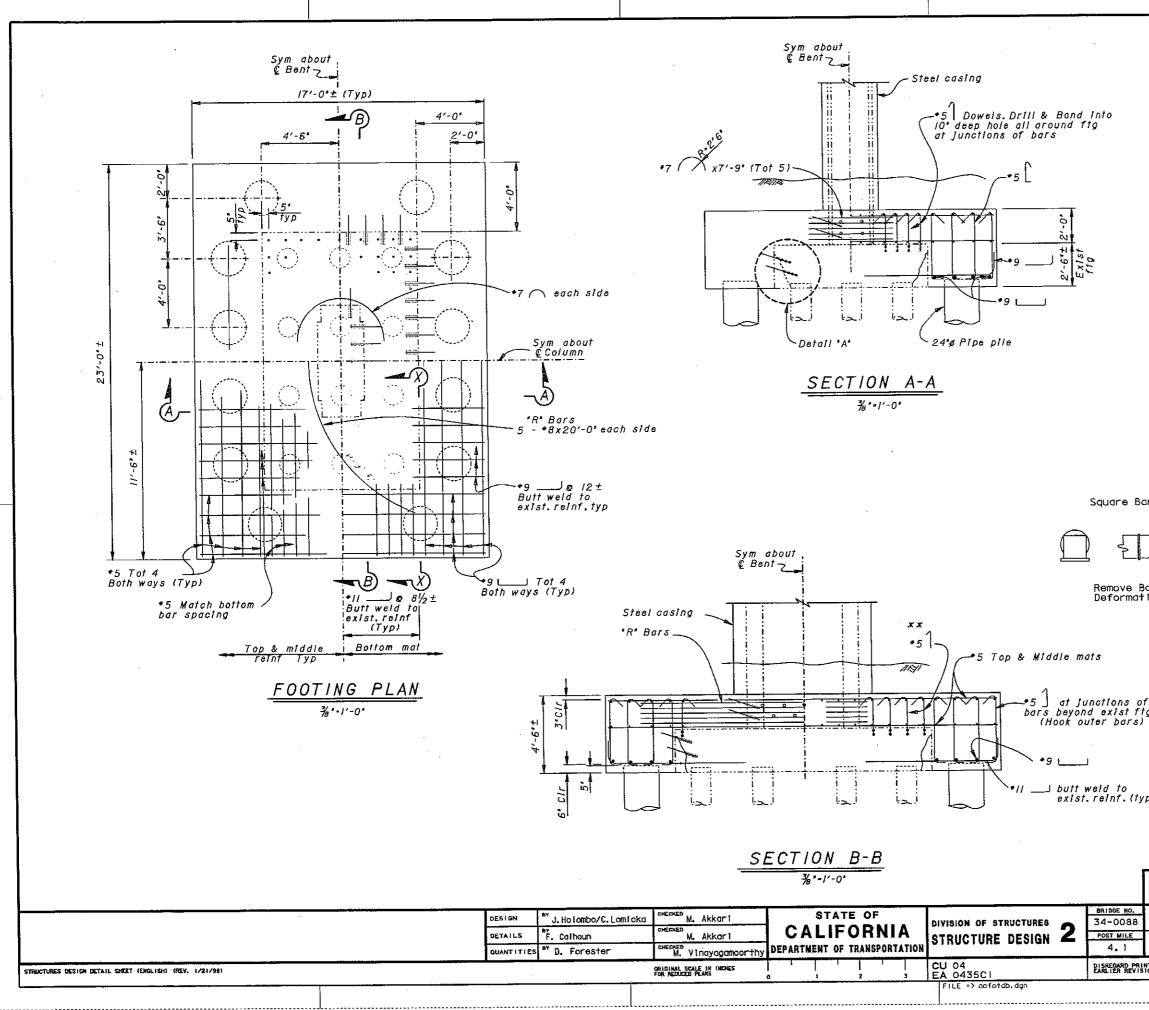
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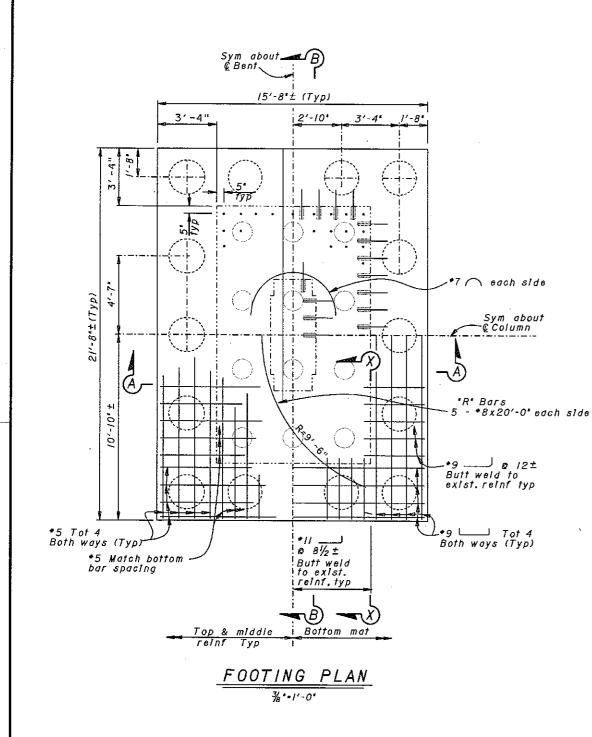
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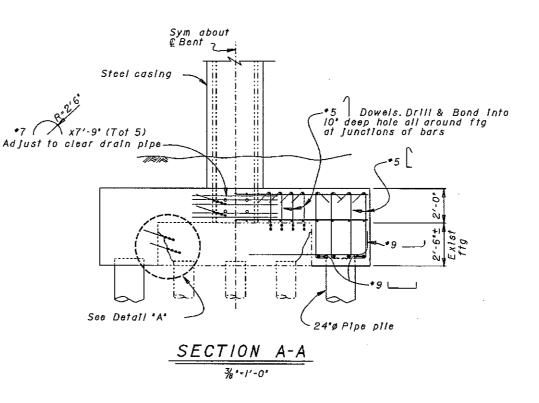


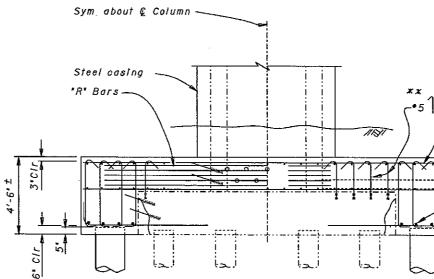
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Note: Tuttrast new los a web site To get to the web site go to lifty://www.ddt.cogov Notes: All new concrete around figs 1s to be classified as Structural concrete. Birldge Fooling. Mechanical butt splices may be used in ifeu of butt welds for fupe bar-to-round bar butt splices. see 'Defail B' For Specie bar-to-round bar butt splices. see 'Defail B' For Steel casing details, see 'BENT DETAILS NO. 1 Kg 98-Kg 100' sheet Due to symmetry, not all reinforcement is shown. X If Alternative 2 of Detail 'A' is used first row of drill & bond files are to be replaced with full height ties first row of drill & bond files are to be replaced with full height ties first row of drill & bond files are to be may be are in the set of the BARE DETAIL ''B'' No Soale NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTRACTOR SHALL VERIFY NO SOOL STATUS OF STATUS OF SHALL VERIFY ALL CONTRACTOR SHALL VERIFY STATUS OF SEISMIC RETROFIT PROJECT NO. 14A F. BAYSHORE VIADUCT (Bent L98 to LIO3		coent:	s shall not be	: responsible f	or the accuracy if a		ÿ
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 For 'Section X-X' & Detail' X', see 'FOOTING DETAILS - BENTS L98-L103' sheet For Steel casing details, see 'BENT DETAILS NO. IK 298-K2100' sheet Due to symmetry, not all reinforcement is shown. X If Alternative 2 of Detail 'A' is used first row of drill & bond ties are to be replaced with full height ties 1 similar to those in fig extension Flat Plate Booking DETAIL "B" DETAIL "B" No Soale 	lleu For	of squ	butt wei are bar	lds .			
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NOTE: SQUARE ROUND BAR BAR DETAIL "B" DETAIL "B" No Sodie No Sodie SFOBB - SEISMIC RETROFIT PROJECT NO. I4A F. BAYSHORE VIADUCT (Bent L98 to L103)		F		-			
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NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. SFOBB - SEISMIC RETROFIT PROJECT NO. 14A .F. BAYSHORE VIADUCT (Bent 198 to 1103)							OTTEL
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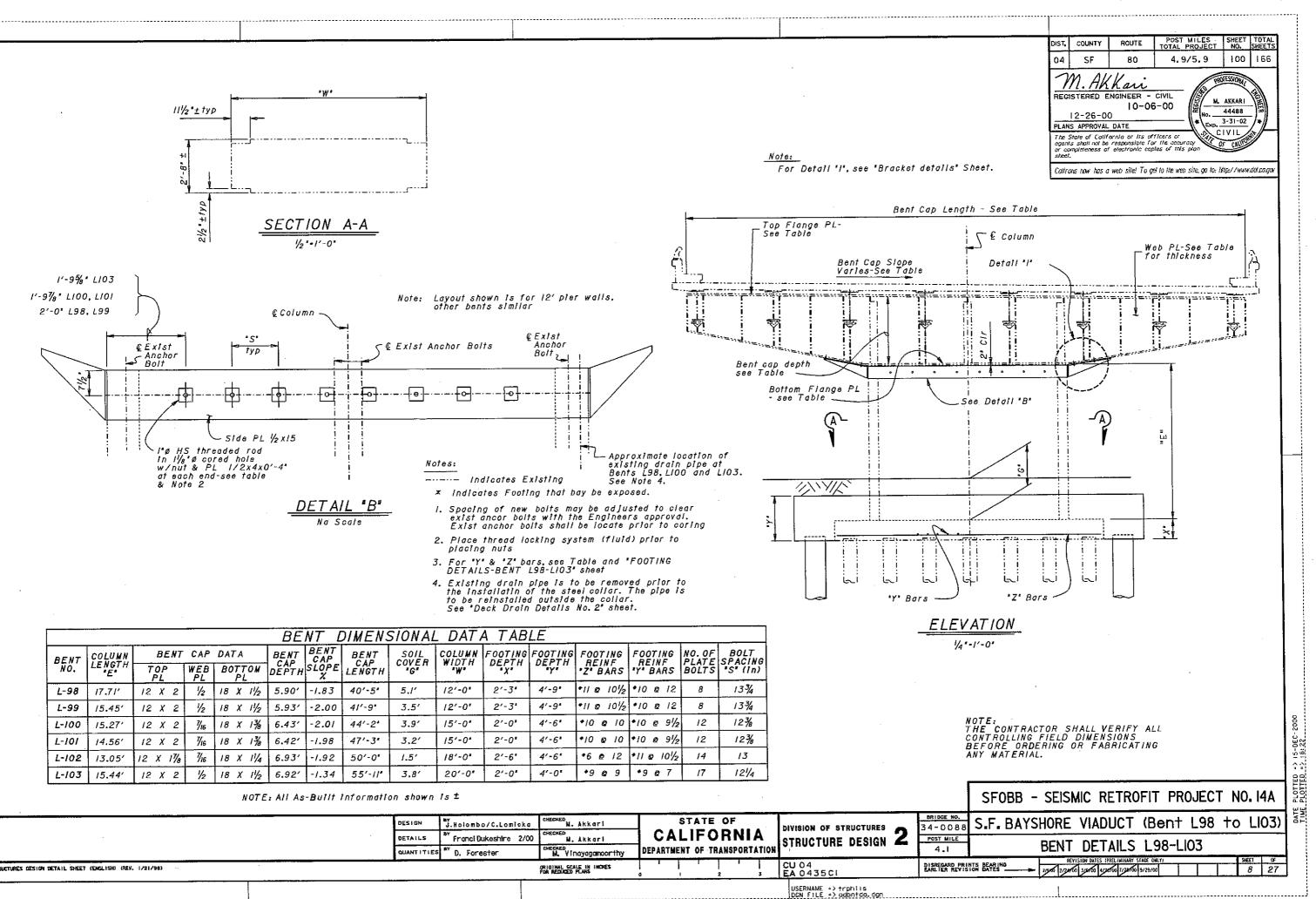




SECTION B-B

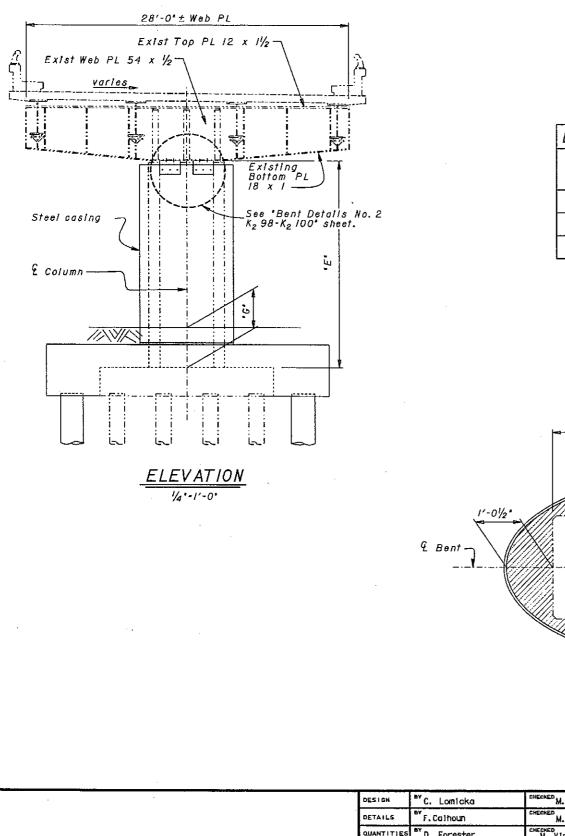
							SF
	DESIGN	^{av} J. Holombo/C. Lomicka		STATE OF	DIVISION OF STRUCTURES	BRIDGE NO. 34-0088	S.
	DETAILS	^{BY} F. Calhoun	M. Akkari	CALIFORNIA			<u> </u>
	QUANTITIE	es ^{by} D. Forester	M. Vinayagamoorthy	DEPARTMENT OF TRANSPORTATION	STRUCTURE DESIGN 🗲	4.	FO
STRUCTURES DESIGN DETAIL SKEET (ENGLISH) (REV. 1/21/98)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 04 EA 0435C1	DISREGARD PRII	INTS BEAU SION DAT
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POST MILES TOTAL PROJECT COUNTY ROUTE SHEET TOTA NO. SHEET DIST. 04 SF 80 4,9/5,9 99 166 M. AKKari 10-06-00 REGISTERED ENGINEER - CIVIL M, AKKARI 44488 12-26-00 3-31-02 PLANS APPROVAL DATE CIVIL The State of California or fits affloers or agents shall not be responsible for the accuracy or completeness of electronic copies of this play steel. OF CM allrans now has a web site! To get to the web site, go to http://www.dol.ca.gov Notes: All new concrete around ftgs Is to be classified as Structural Concrete, Bridge Footing. Mechanical butt splices may be used in lieu of butt welds. For square bar-to-round bar butt splices, see "Detail B" on "FOOTING DETAILS-K₂98" cheat sheet For Pipe Pile details not shown, see
 *PIPE PILE DETAILS' sheet. For 'Section X-X' & Detail 'A', see 'FOOTING DETAILS - BENTS L98-L103' sheet For Steel casing details, see 'BENT DETAILS NO.1 K₂ 98-K₂ 100' sheet. Due to symmetry, not all reinforcement is shown. ** If Alternative 2 af Detail *A* is used first row of drill & bond ties are to be replaced with full height ties similar to those in fig extension. *5 Top & Middle mats •5 J at junctions of bars beyond exist fig (Hook outer bars) -Drain pipe throuth new footing at Bent K2 100. See *Deck Drain Details No.1* sheet. •11 ____ NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. SFOBB - SEISMIC RETROFIT PROJECT NO. 14A S.F. BAYSHORE VIADUCT (Bent L98 to L103) OOTING DETAILS - BENTS K299, K2100 EAR ING 7 27



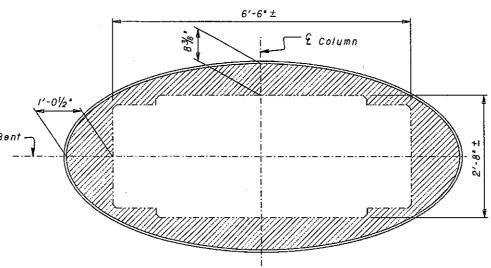
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BENT	COLUMN	BE∦T	CAP	DATA	BENT	BENT CAP	BENT CAP	SOIL COVER	COLUMN WIDTH	FOOTING	FOOTING DEPTH	FOOTING REINF	FOOTING	NO. OF	BOLT SPACING
BENT NO.	LENGTH "E"	TOP PL	WEB PL	BOTTOM PL	CAP DEPTH	SLOPE X	LENGTH	'G'	W'	*X*	ν. γ	'Z' BARS	Y' BARS	BOLTS	'S' (1n)
L-98	17.71	12 X 2	1/2	18 X 11/2	5.90'	-1.83	40'-5*	5./′	12'-0"	2'-3'	4'-9"	•11 @ 101/2	•10 @ 12	8	133/4
L-99	15.45'	12 X 2	1/2	18 X 11/2	5.93'	-2.00	41'-9"	3.5'	12'-0"	2'-3'	4'-9*	•11 @ 101/2	•10 @ 12	8	133/4
L-100	15.27'	12 X 2	7/16	18 X 13%	6.43'	-2.01	44'-2'	3.9′	15'-0"	2'-0"	4'-6'	•10 @ 10	•10 @ 91/2	12	123/8
L-101	14.56'	12 X 2	7/16	18 X 1 3/8	6.42'	-1.98	47'-3*	3.2'	15'-0"	2'-0"	4'-6'	•10 @ 10	*10 @ 91/2	12	123/8
L-102	13.05'	12 X 17/8	7/16	18 X 11/4	6.93'	-1.92	50'-0"	1.5'	18'-0"	2'-6'	4'-6"	•6 @ 12	*11 @ 10½	14	/3
L-103	15.44'	12 X 2	1/2	18 X 11/2	6.92'	-1.34	55'-11"	3.8′	20'-0"	2'-0"	4'-0"	*9 0 9	•9@7	17	121/4

	DESIGN DETAILS QUANTITIES	^{BY} J.Holombo/C.Lomicka ^{BY} FranciDukeshire 2/00 S ^{BY} D. Forester		S CAL DEPARTMEN	.IF		IA	DIVISION OF STRUCTURES	2	BRIDGE NO. 34-0088 POST MILE 4.1	S.
STRUCTURES DESIGN DETAIL SHEET (ENGLISHI (REV. 1/21/98)			ORIGINAL SCALE IN INCRES FOR REDUCED PLANS		T	2	3	CU 04 EA 0435CI		DISREGARD PRI	NTS BE
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BENT I	DIMENSIONAL	DATA TABLE
BENT NO.	COLUMN LENGTH "E"	COVER "G" (ft)
K ₂ -98	15.60'	2.5
K ₂ -99	13.02'	2.6
к ₂ -100	9.60'	2.4

NOTE: All As-Built information shown are \pm

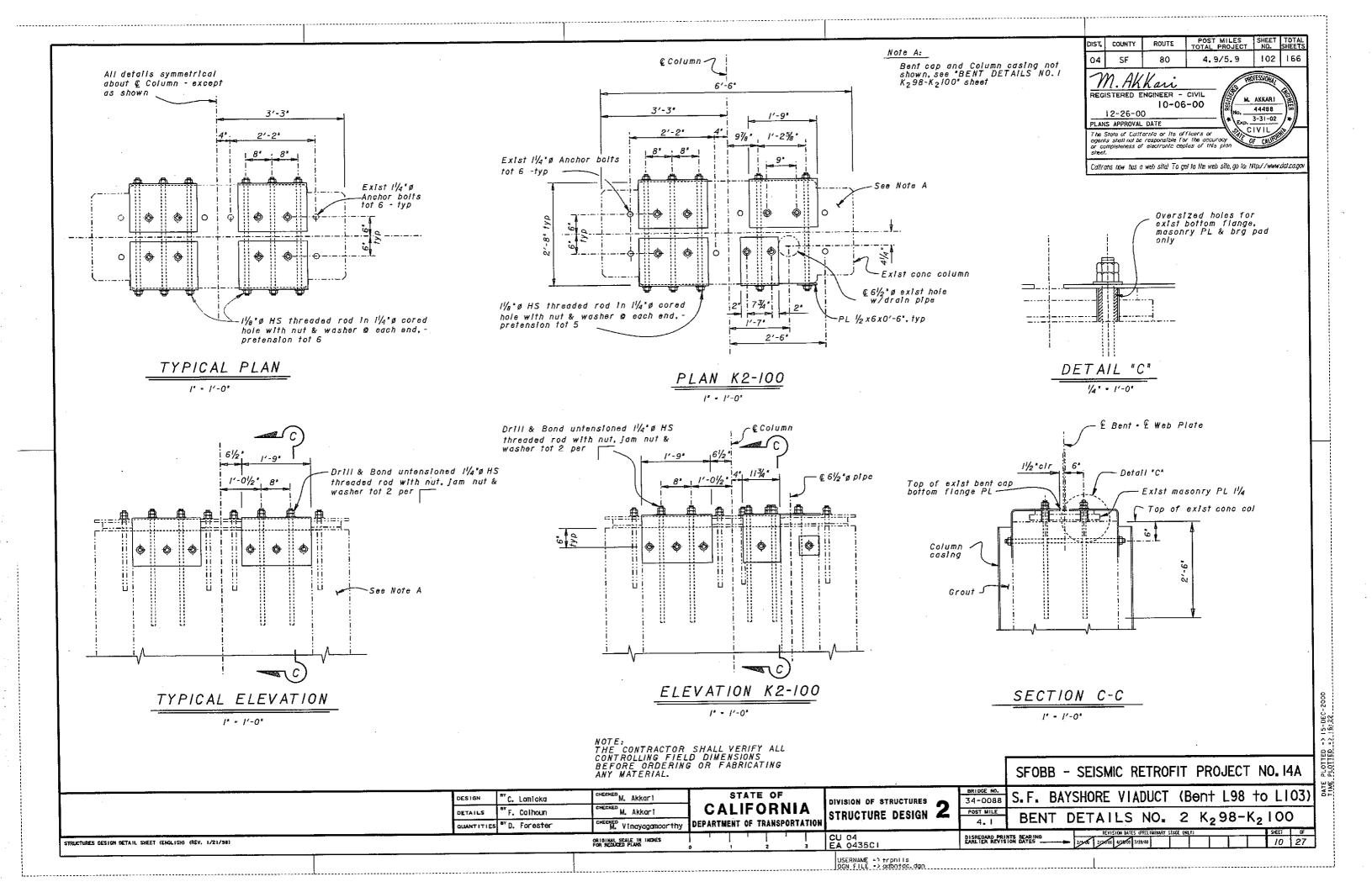


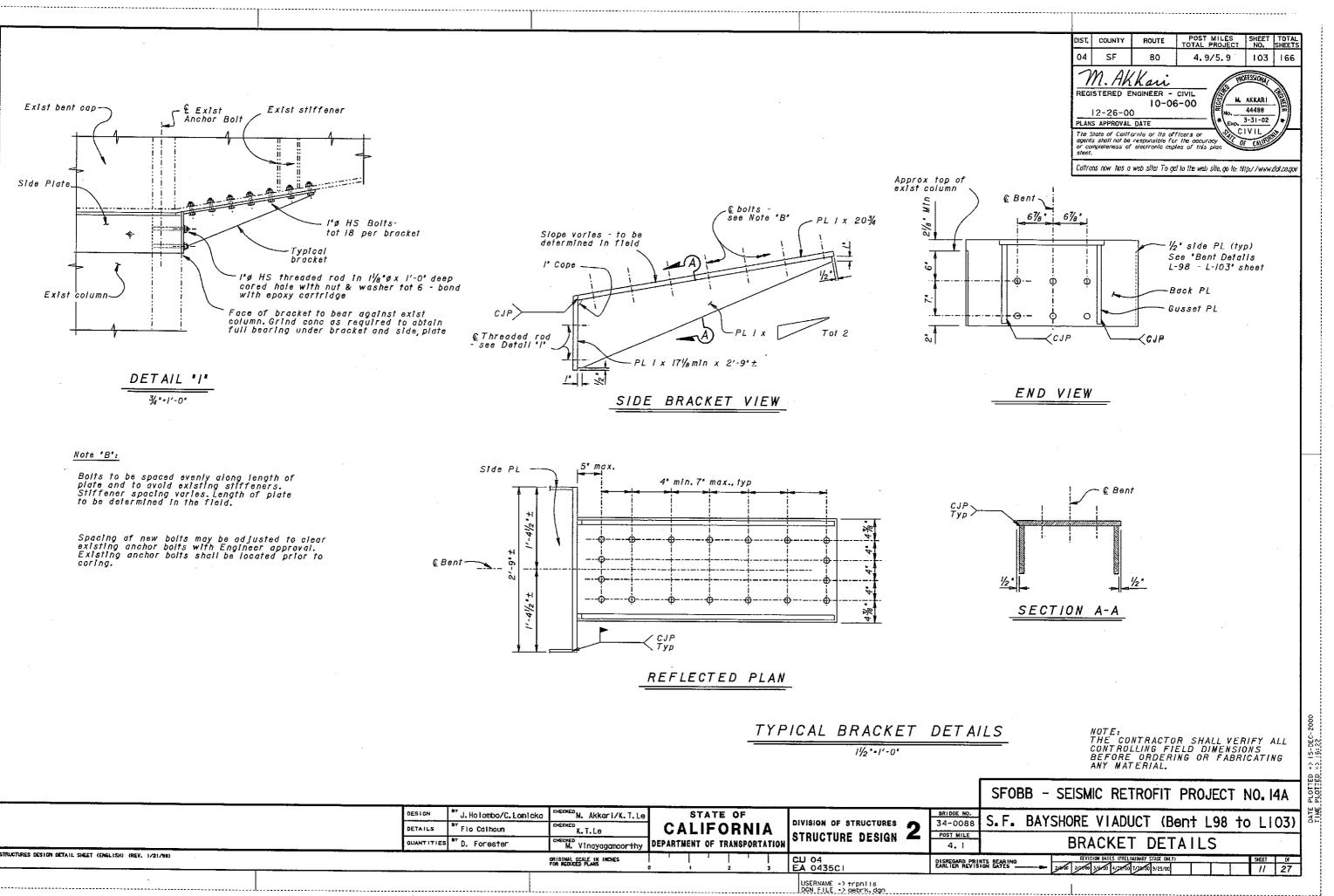
Note: %' Steel casing See 'STEEL COLUMN CASINGS' sheet (Class F)

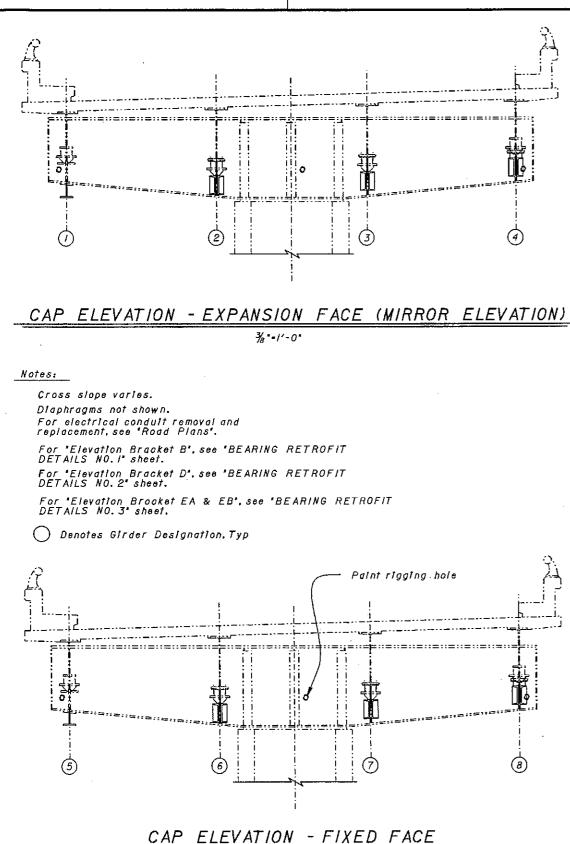
STEEL CASING DETAIL

			1 1 5			
						SF
	DESIGN BY C. Lomicka	CHECKED M. Akkarl	STATE OF	DIVISION OF STRUCTURES	BRIDGE NO. 34-0088	S.F
	OETAILS F.Calhoun QUANTITIES ^{BY} D. Forester	M. Akkarl CHECKED M. Vingyagamoorthy	DEPARTMENT OF TRANSPORTATION	STRUCTURE DESIGN 🚄	POST MILE	BE
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 1/21/98)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 t 2 3	CU 04 EA 0435C1	DISREGARD PRI EARLIER REVIS	ITS BEARI
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	DIST,	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL
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		2-26-00		Exp	3-31-02	7*/
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181				PROJECT		
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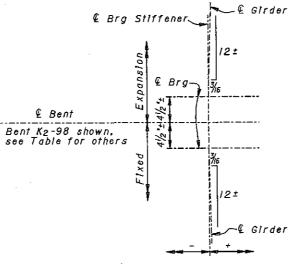
3/1-1'-0"

BEARING	RET	RO	FIT	BF	ACI	KET	T	'PE
	Exp	ansl	on F	ace	FI	xed	Fa	60
Bent No.	0	0	3	۲	5	6	\bigcirc	8
K2-98	D	EВ	EB	¥ EA	D	в	В	¥ EB
K2-99		EB	1 :		D	B	EВ	X EB
K₂-100⊛		B		X B	D	В	E B	¥ EB

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

(*) Remove, realign and reinstall/ or replace deck drain pipe and hangers at Bents Indicated, see "Bearing Retrofit No. 3" sheet.

* Denotes Bracket with clip angle omitted on one side because of paint rigging hole in Bent Cap.



PLAN EXISTING GIRDER SKEW

11/2 -1'-0'

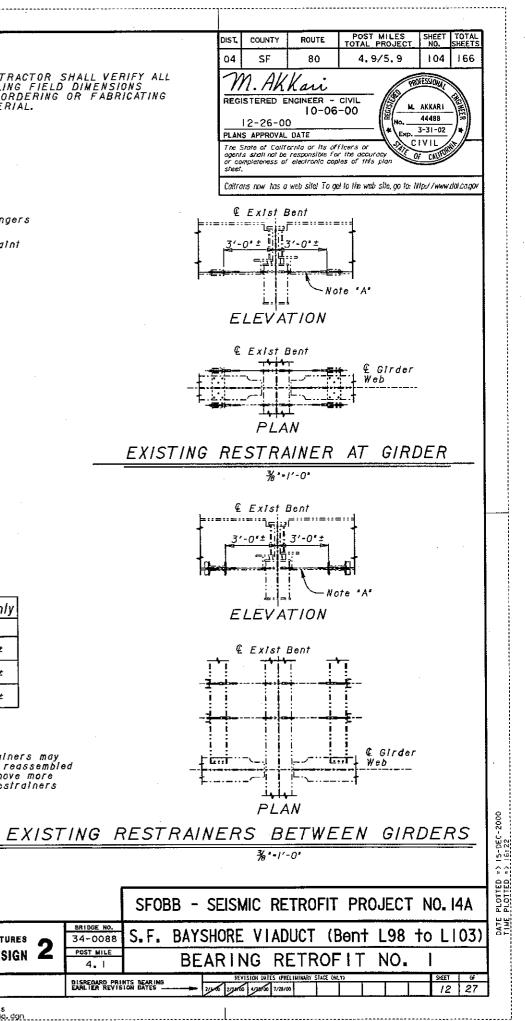
Bent No.	r	· · · · · · · · · · · · · · · · · · ·	E - For Inform Fixed	
K2-98	0234	¾;:12±	5678	¾ ₆ ;12±
K2-99	0234	3/16 :12±	5678	¾6 :12±
K2-100	0234	7/16 :12 ±	5678	¾6 :12±

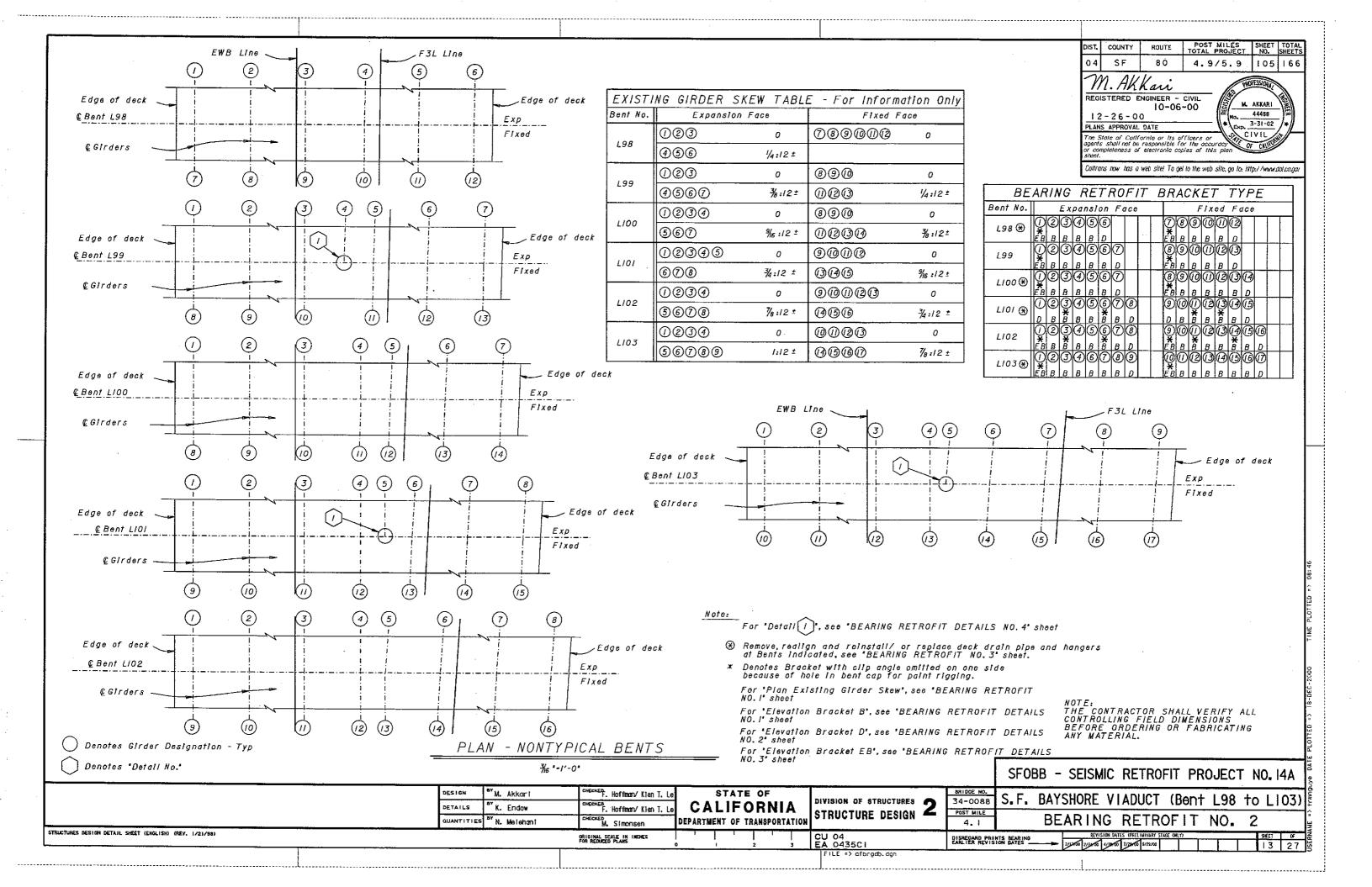
Note "A"

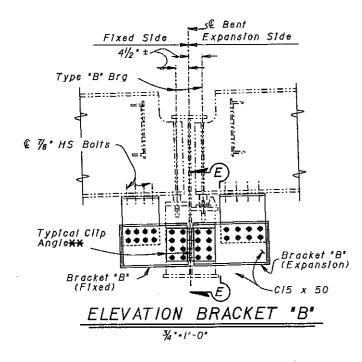
Existing cable restrainers may be disassembled and reassembled as needed. Do not remove more than 50% of cable restrainers per bent at one time.

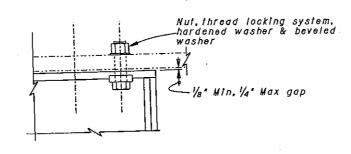


BRIDGE NO. ^{ecked} F, Hoffmon/Kien T. Le STATE OF DESIGN M. Akkari 34-0088 DIVISION OF STRUCTURES CALIFORNIA Kien T. 1e DETAILS K. Endow POST MILE STRUCTURE DESIGN 🚄 DEPARTMENT OF TRANSPORTATIO 4.1 QUANTITIES N. Helehani ™M. Simonsen CU 04 EA 0435C1 TRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 1/21/98) DISREGARD PRINTS BEARING EARLIER REVISION DATES -ORIGINAL SCALE IN INCHES USERNAME => trohlis DGN_File => ofbrgdo.dg









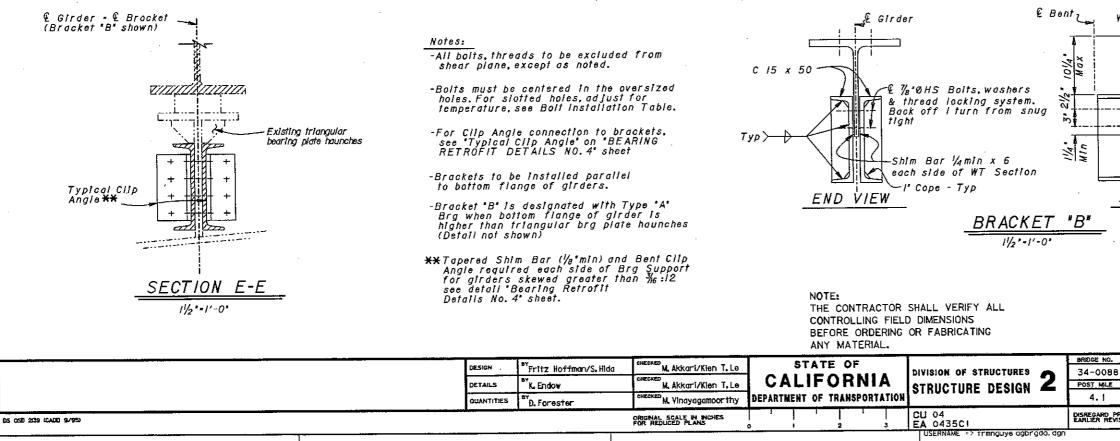
TYPICAL GIRDER CONNECTION

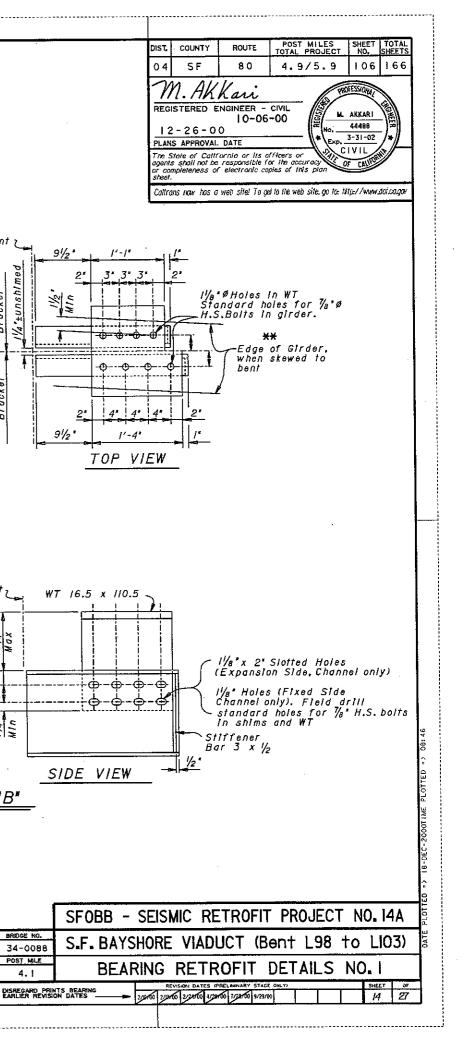
3" . 1'-0"

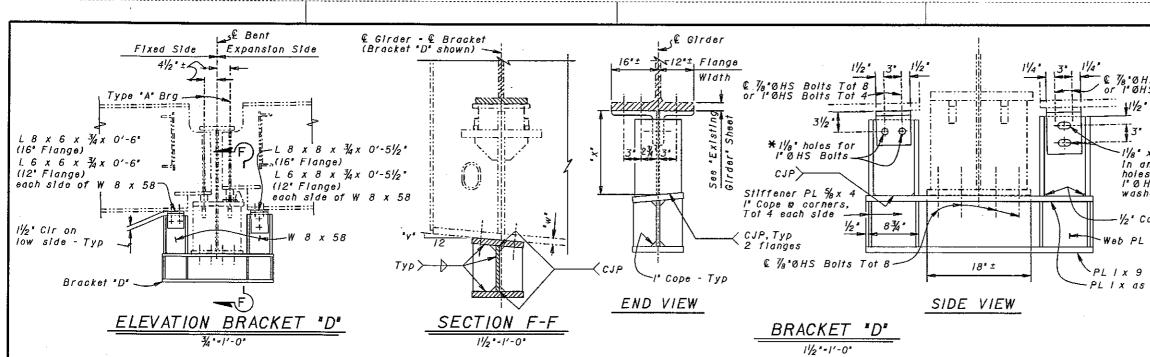
Sym apout 7 pee Flxed Type Bracket Bracket Bracket

BOLT I	NSTALLATION TABLE
Steel Girder Temperature F	Bolt Location (From center of hole)
40	¼* closer to ctr of span
60	center of hole
80	1/4° further away from ctr of span

Note: -interpolate for temperature other than those shown







			· · ·	
EX.	ISTING	GIRDEF	R TABL	E
Bent No.	Girder Des	Ignation	Girder De	scription
1000 NO.	Expansion	Fixed	Expansion	Fixed
K2 98	1.4	5,8	36WF230	36₩F230
N2 30	2,3	6,7	36₩F260	36₩F260
K2 99	1, 4	5,8	36₩F230	36₩F230
~2 J J	2, 3	6,7	36₩F260	36₩F260
K2 100	1, 4	5.8	36₩F230	36₩F230
~ <u>~</u> 700	2, 3	6,7	36₩F260	36₩F260
L98	1,6	7,/2	36₩F230	36₩F230
L.90	2-5	8-11	36₩F245	36₩F245
L99	1, 7	8,13	36₩F230	36₩F230
	2-6	9-12	36₩F245	36₩F245
LIOO	1,7	8,14	36₩F182	36₩F230
	2-6	9-13	36₩F230	36₩F245
LIOI	1,8	9,15	36WF182	36₩F182
	2-7	10-14	36₩F230	36₩F230
L102	1, 8	9.16	36₩F182	36₩F182
1102	2-7	10-15	36₩F230	36₩F230
LIO3	1, 9	10,17	36₩F170	36₩F/82
2,05	2-8	/1-16	36₩F230	36₩F230

Bent No.	*v*		·	• * •
	Left	Right] "	Â
K ₂ 98	11/16	11/16	1	101/8
K ₂ 99	11/16	11/16	1	101/8
K ₂ 100	11/15	11/15	1	101/8
L98	21/16	17/15	11/2	1011/16
L99	21/16	11/8	11/2	10%
L100	21/2	1 1/16	1%	111/8
LIOI	25%	15%	1%	131/2
L102	2%	113/16	11/4	
L103	25/15	113/16	11/2	131/2

BRACKET "D" TABLE

Dimensions (in.±)

BOLT	INSTALLATION TABLE
Steel Girder Temperature F	Bolt Location (From center of hole)
40	1/4" further away from ctr of span
60	center of hole
80	1/4° closer to ctr of span

Note: -Interpolate for tempe other than those show

STEEL BENT CAP WEB D	INENSIONAL DATA TABLE
BENT NO.	WEB THICKNESS
L98, L99 & L103	
K298-K2100	- ½·
L100-L102	7/15

This Table included for information only.

WIDE FLAM	IGE DINENSIONA	L DATA TABLE
SIZE	FLANGE THICKNESS (In)	FLANGE WIDTH (în)
36WF170	11/8	12
36₩F182	13/15	121/8
36₩F230	11/4	161/2
36₩F245	13/8	161/2
36₩F260	17/16	161/2

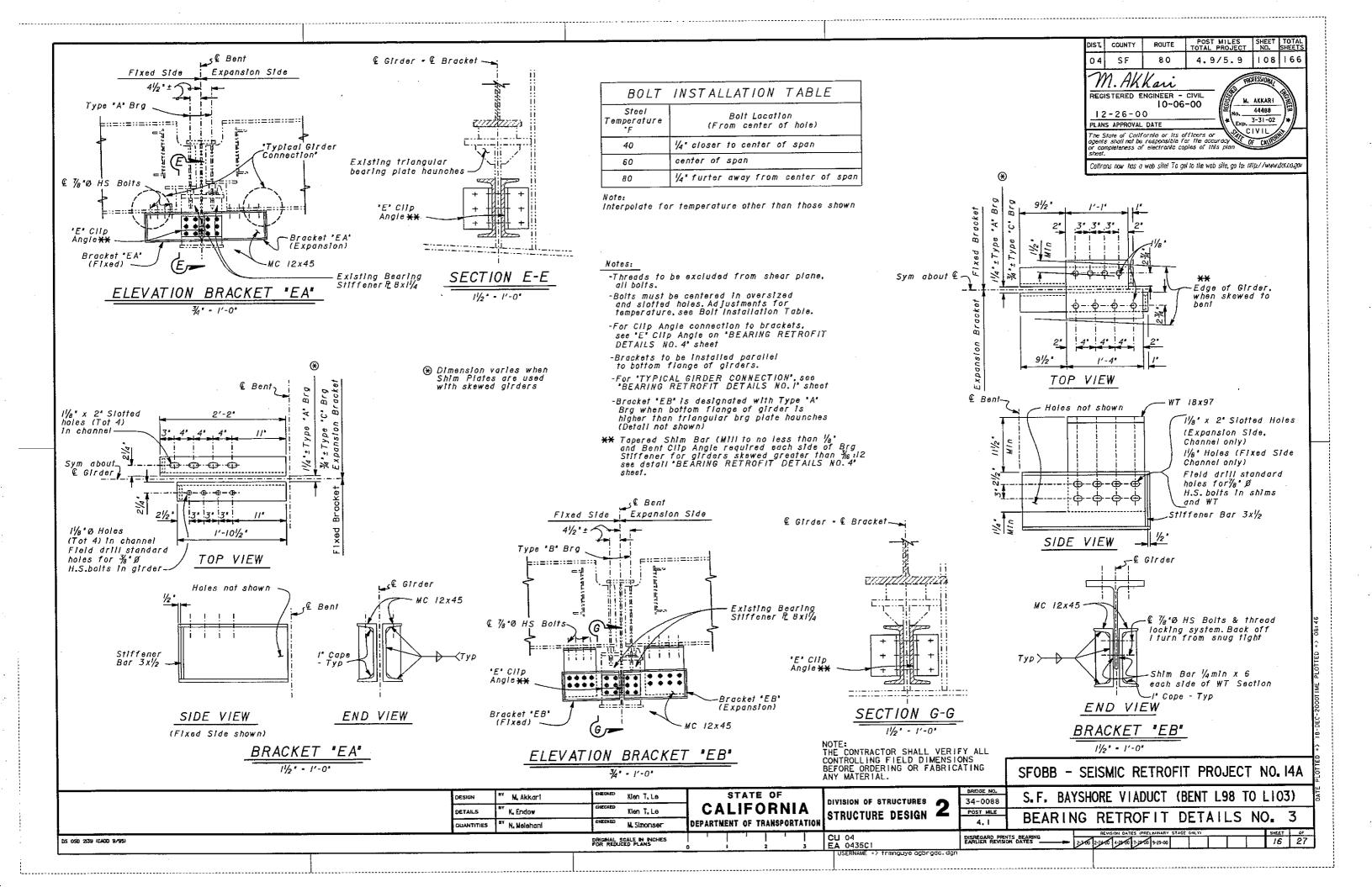
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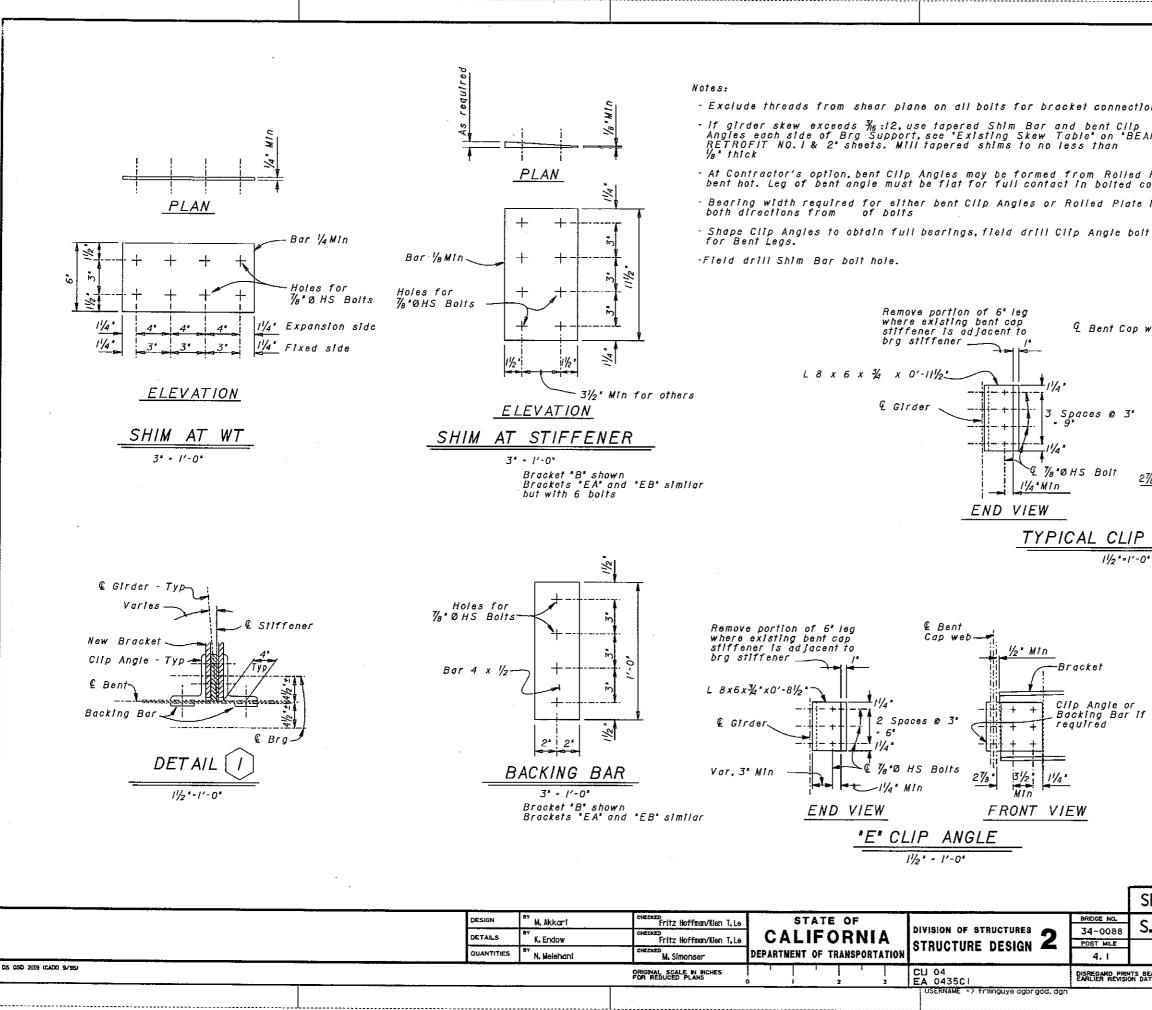
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		DESIGN	BY M. Akkarl	CHECKED Kien T.LO	CAL			DIVISION OF STRUCTURE	^{:s} •	BRIDGE NO. 34-0088	S.F
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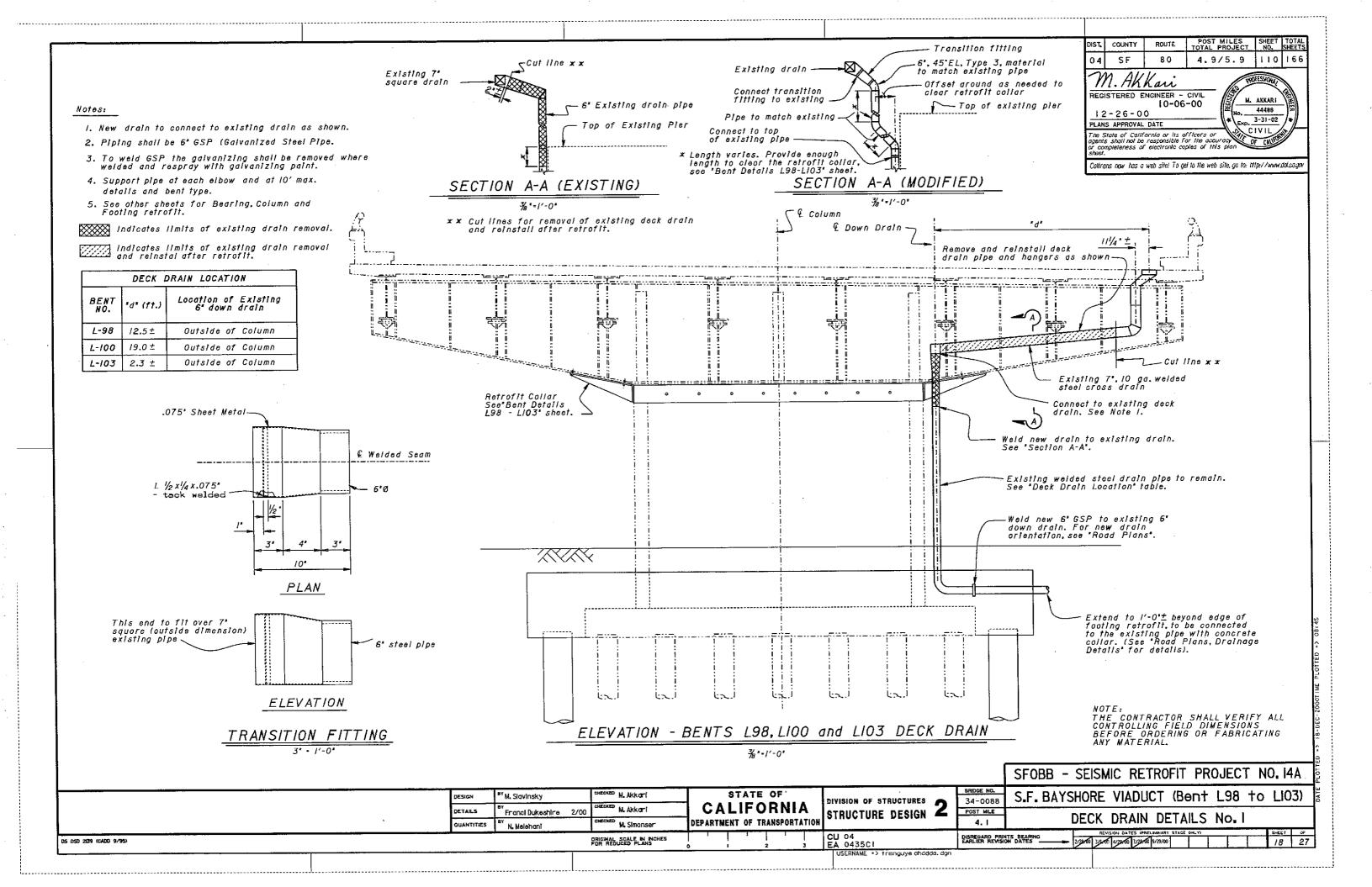
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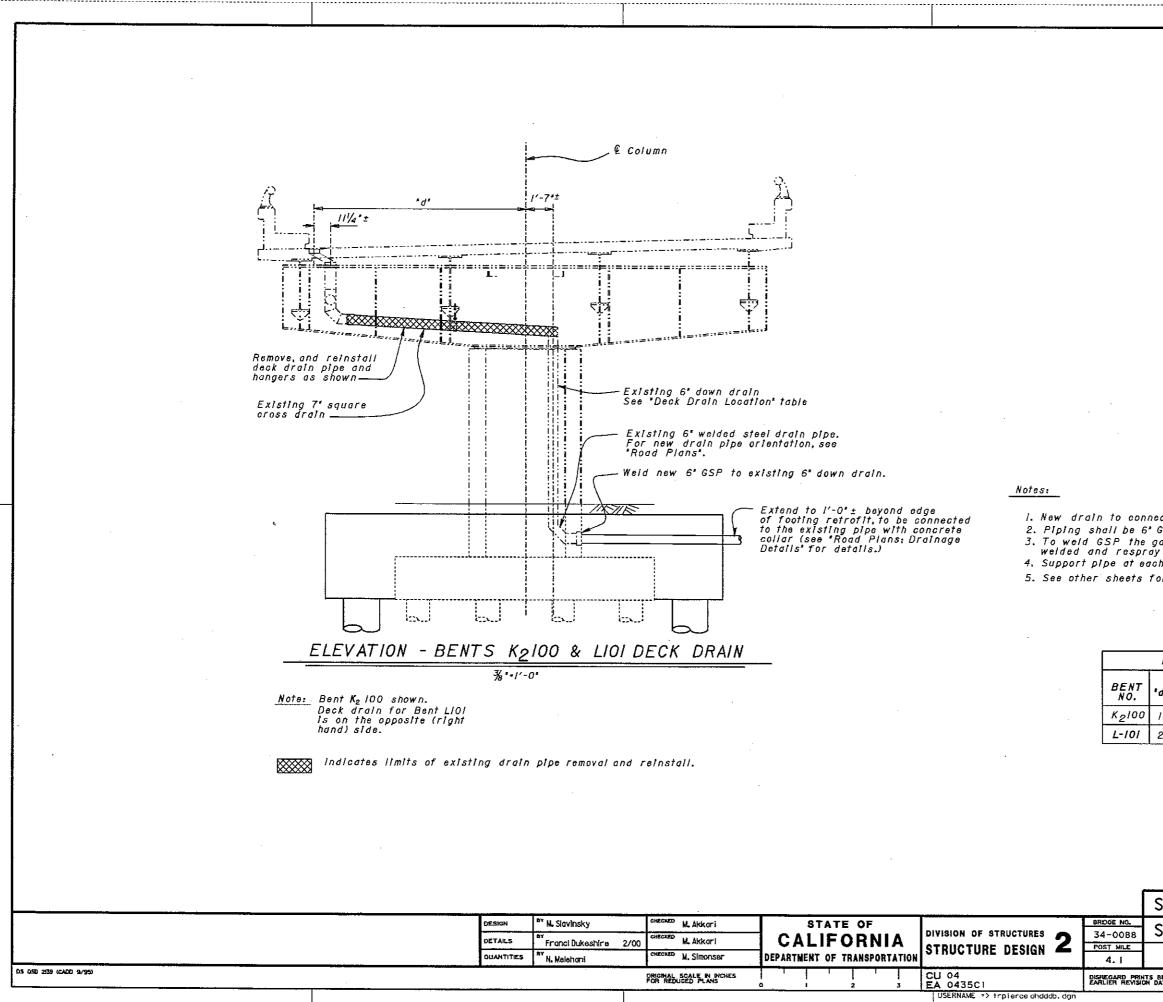
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Notes:			-			
-Bolts shall be holes. See Bo	olt_In	stallatl	on Table	zed for		
			holes.			
-Bracket "D" Is	s one	unit."				
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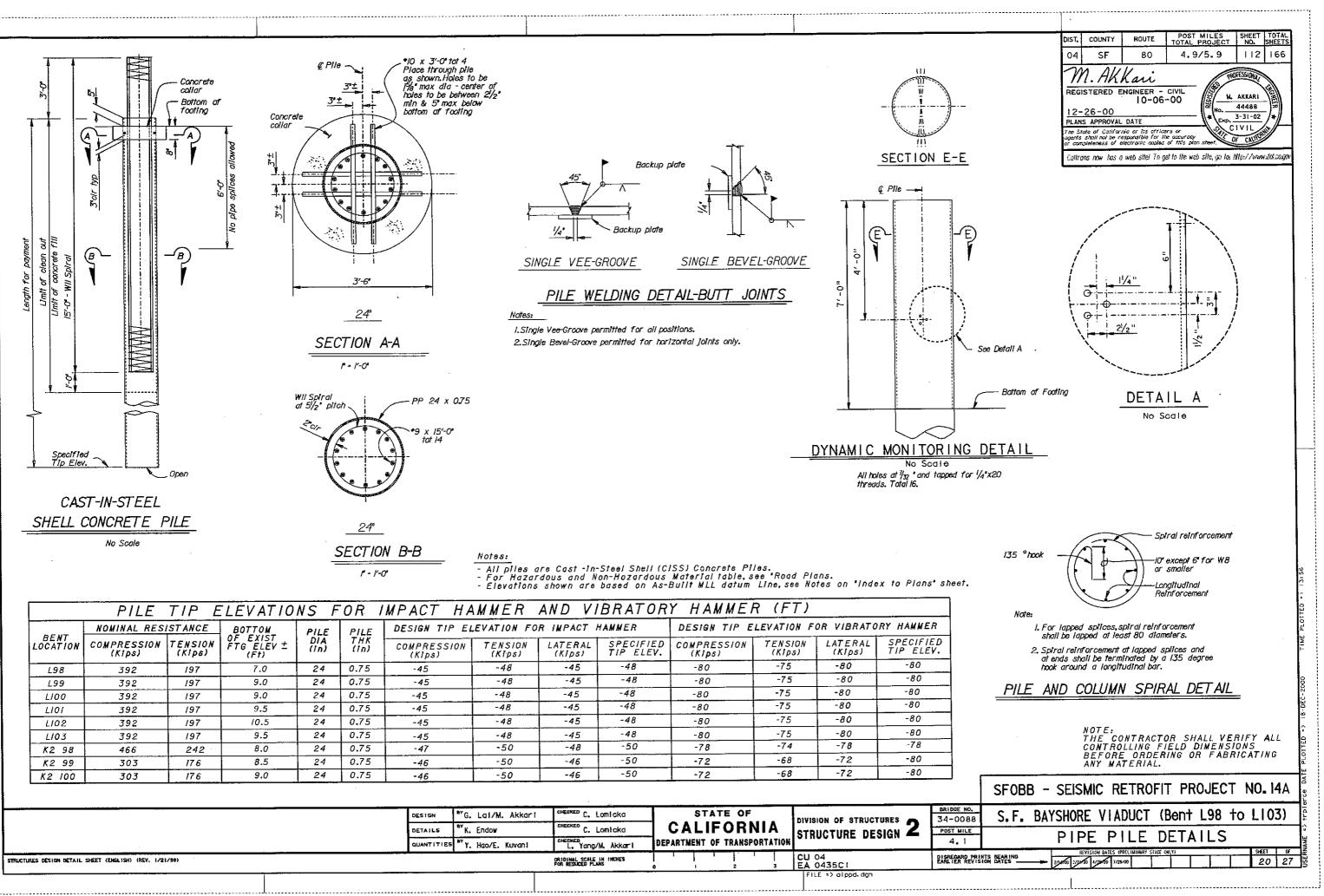


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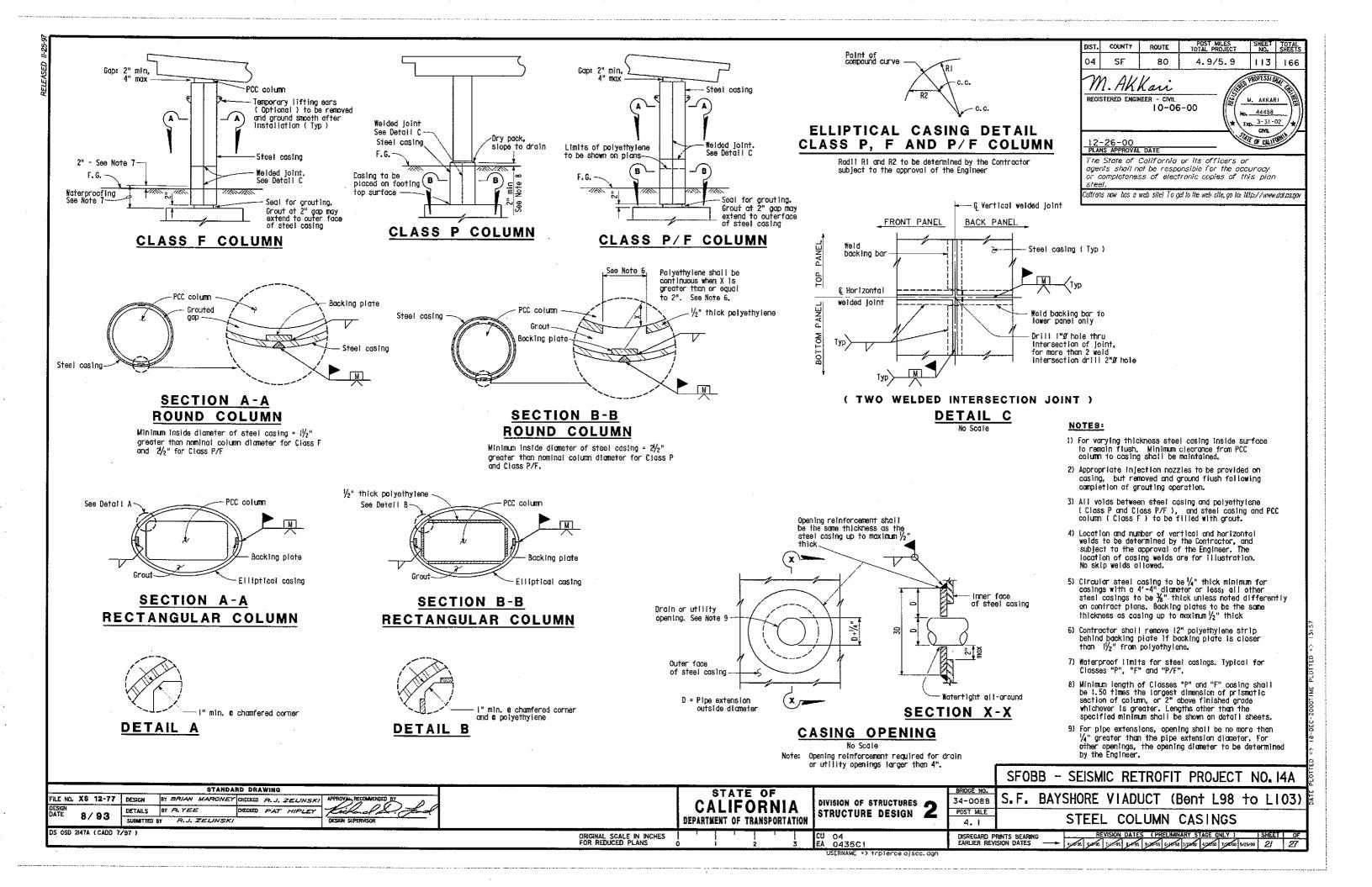


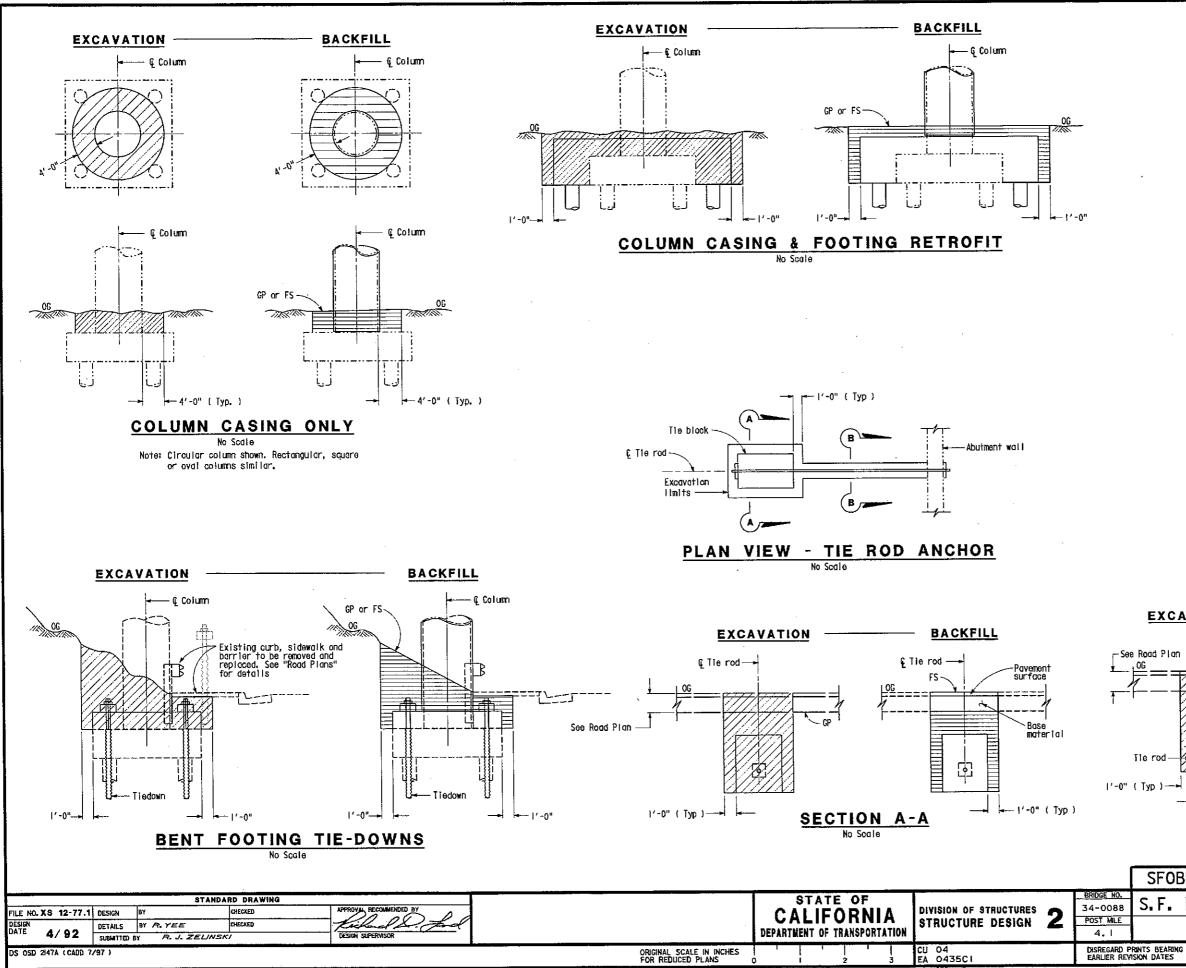
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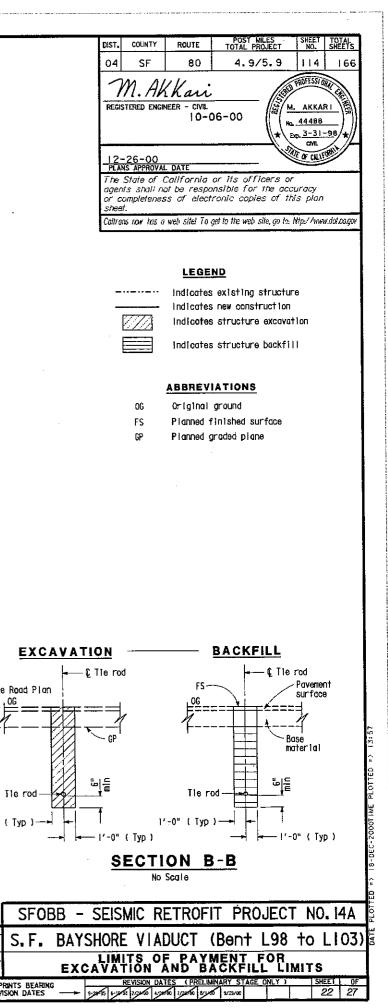
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L99	392	197	9.0	24	0.75	-45	-48	-45	-48	-80	-75	-80	-80
L/00	392	197	9.0	24	0.75	-45	-48	-45	-48	-80	-75	-80	-80
LIOI	392	197	9.5	24	0.75	-45	-48	-45	-48	-80	-75	-80	-80
L102	392	197	/0.5	24	0.75	-45	-48	-45	-48	-80	-75	-80	-80
L103	392	197	9.5	24	0.75	-45	-48	-45	-48	-80	-75	-80	-80
K2 98	466	242	8.0	24	0.75	-47	-50	-48	-50	-78	-74	-78	-78
K2 99	303	176	8.5	24	0.75	-46	-50	-46	-50	-72	-68	-72	-80
K2 100	303	176	9.0	24	0.75	-46	-50	-46	-50	-72	-68	-72	-80
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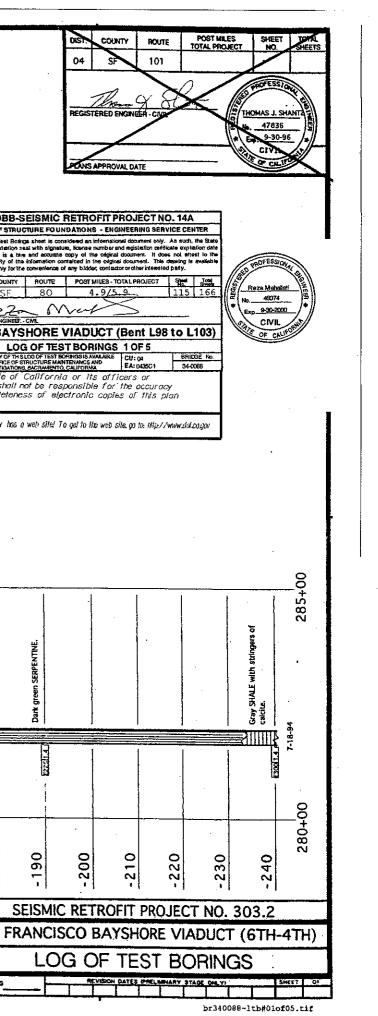


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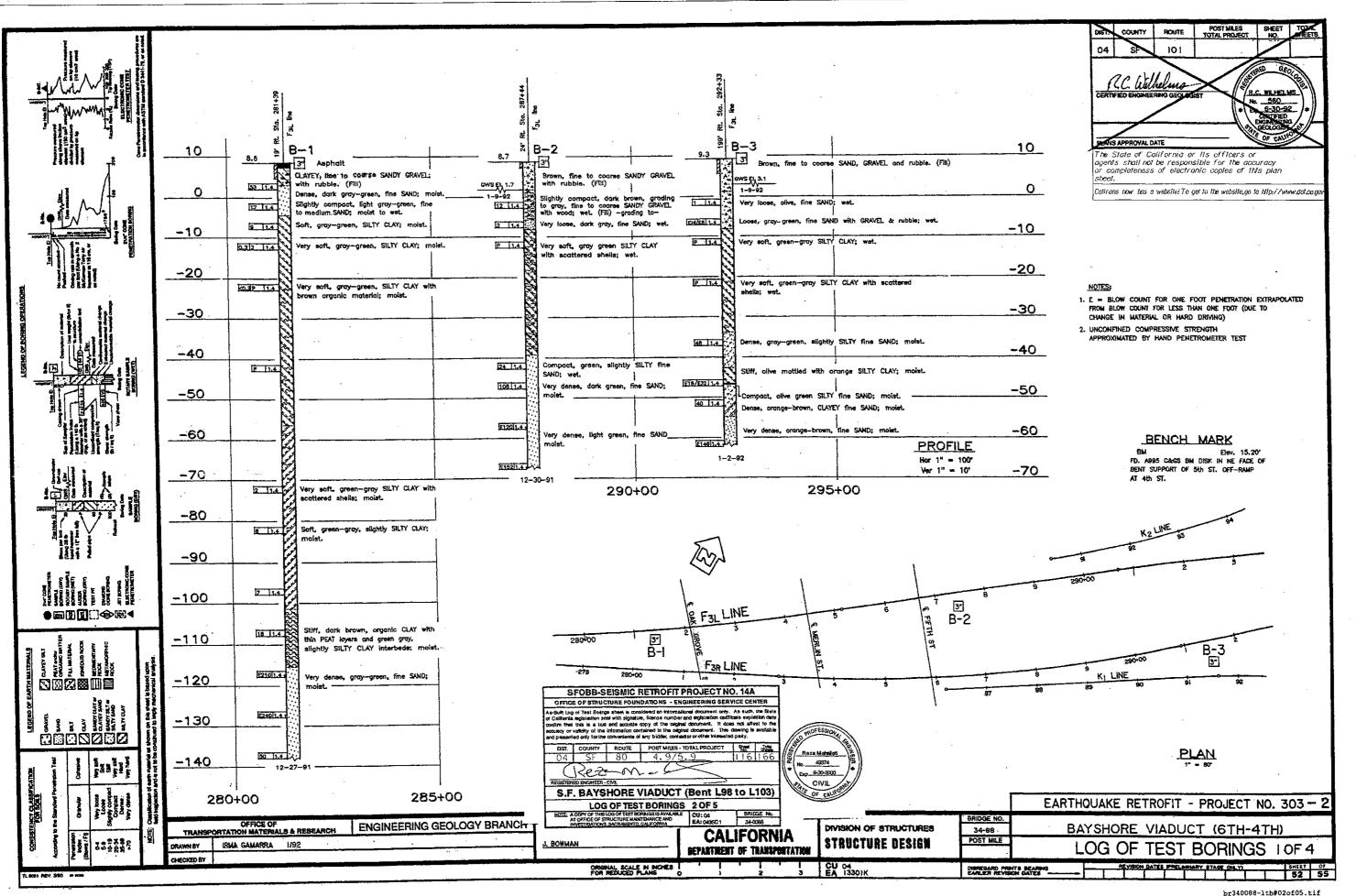


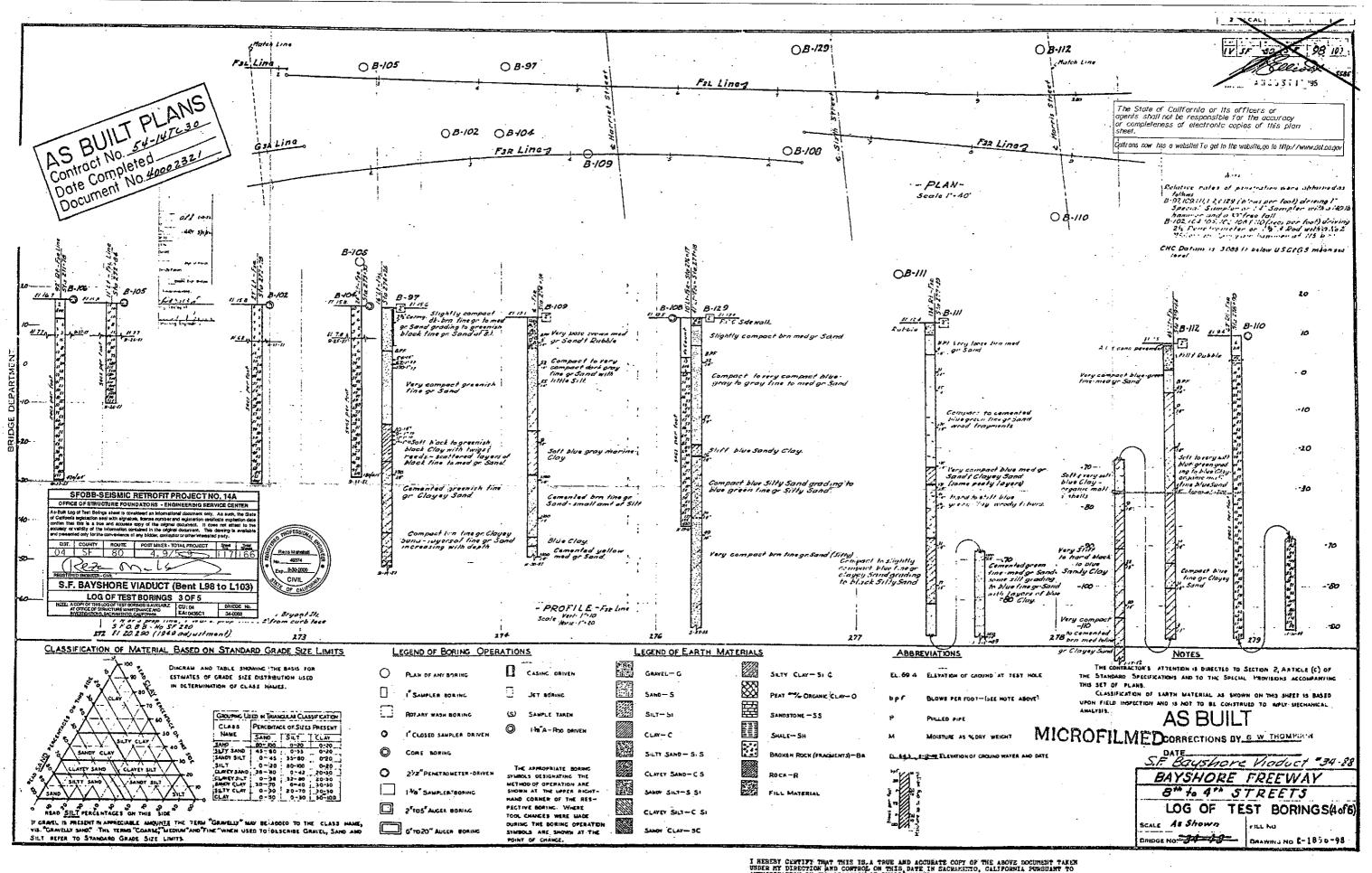
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	Care Preservatur Brandwards and Yanna provakans an n association an ASTM amoded D SATI-N, a ran need			10	Rotary drilling through existing casing.	b	re-gray	gray LLAT with occasional shell	-Very soft, olive-gray CLAY gradually grading to dark gray, CLAYEY fine SAND.	Z Light brown to yellowish-orange, fine, CLAYEY SAND; molst.	- 90	Very dense, alive gray-tight brown, fine SAND; EIZEIL4	irm, gray to , CLAY; molet	Elm, dark gray CLAY with occasional SHALE GRAVEL; fregments.	s SAND: moist. s SAND: moist. wm and gray layered, fine m SANDY CLAY: moist. - 100		and		K21	te, olive-gray, fine SAND se of green and gray 95-4 13 14 14 15 14 14 14 15 14 14 14 15 14 14 15 14 14 15 14 14 15 14 14 14 14 14 14 14 14 14 14 14 14 14	Z75400 1 2 2 3 4 1 5 6 6	
The confidence of the confidence of the confidence of the control of the contro				15.2	chiling through	b		[b]	Soft to very soft, gray to olive-gray CLAY; very moist.				Soft to lirm, gray to olvie-gray, CLAY; moist.		gray, fine SAND; moist. Hard, brown and gray layered, fine and meetium SANDY CLAY: moist.		Very dense, gray to brown and gray, fine SAND ; moist.	Very dense, gray and green mottled, fine, CLAYEY SAND with sparse GRAVEL.		Very dense, olive-gray, fine SAND with kenses of green and gray	1-	CLAT with some tine twavel.
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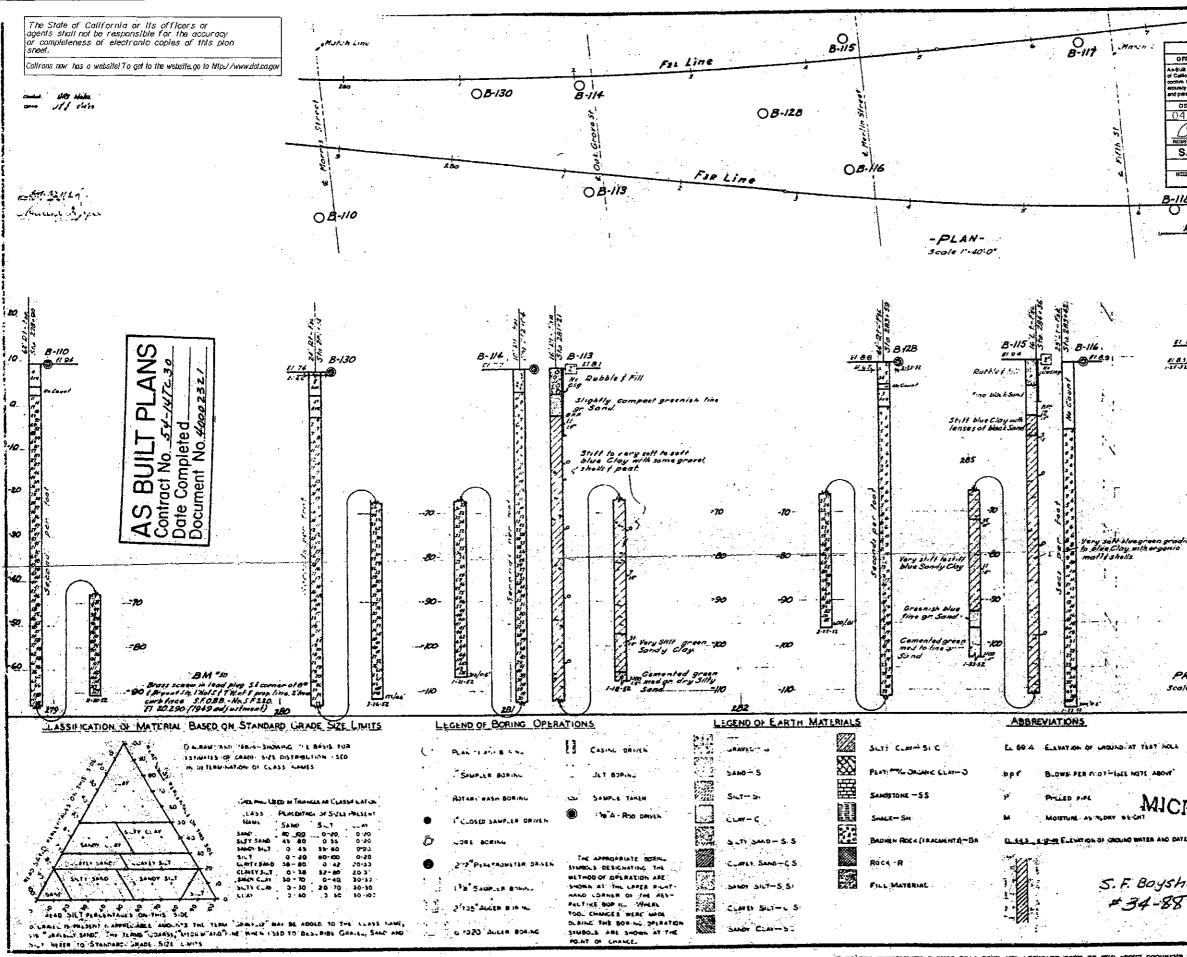


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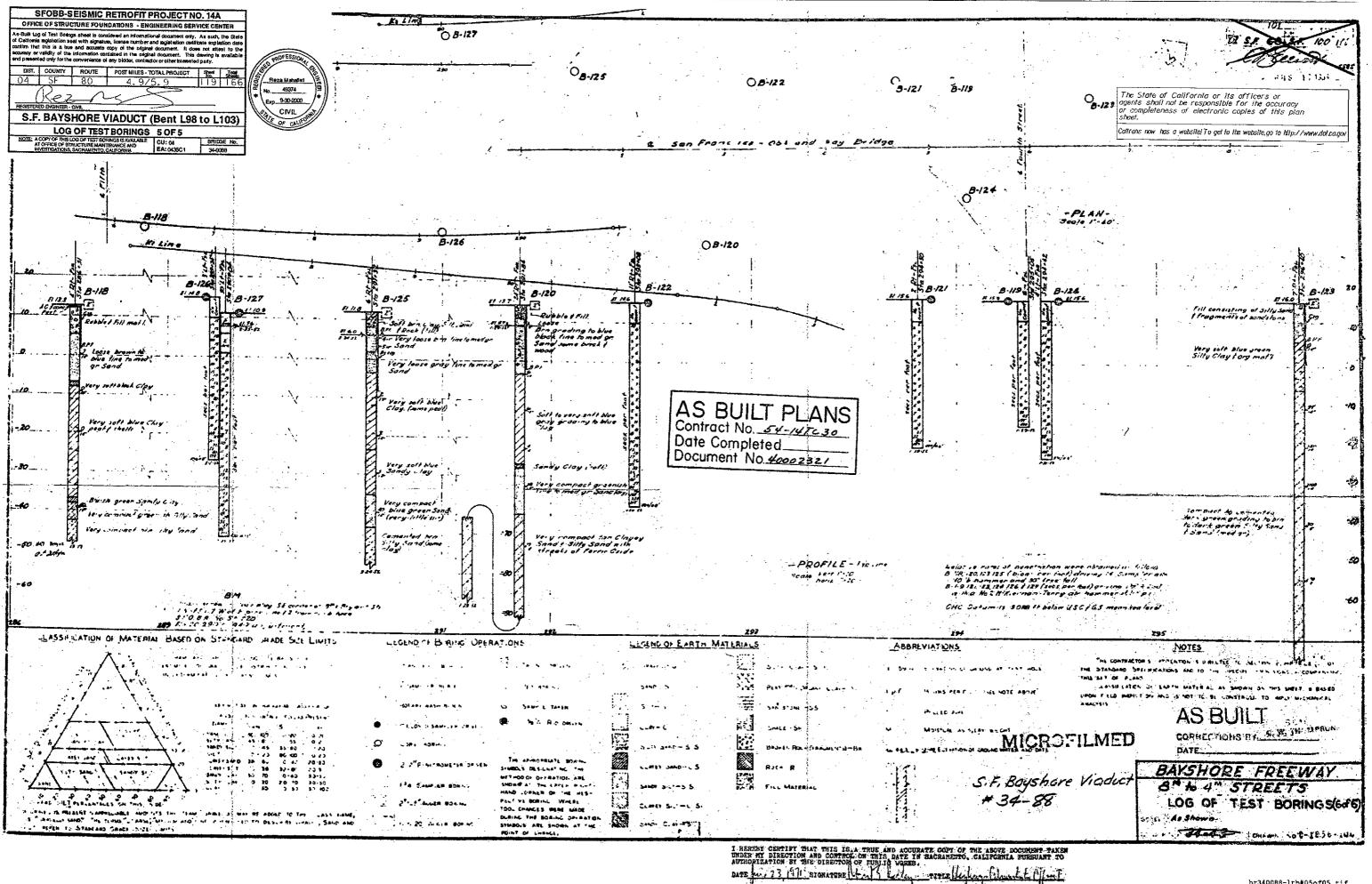
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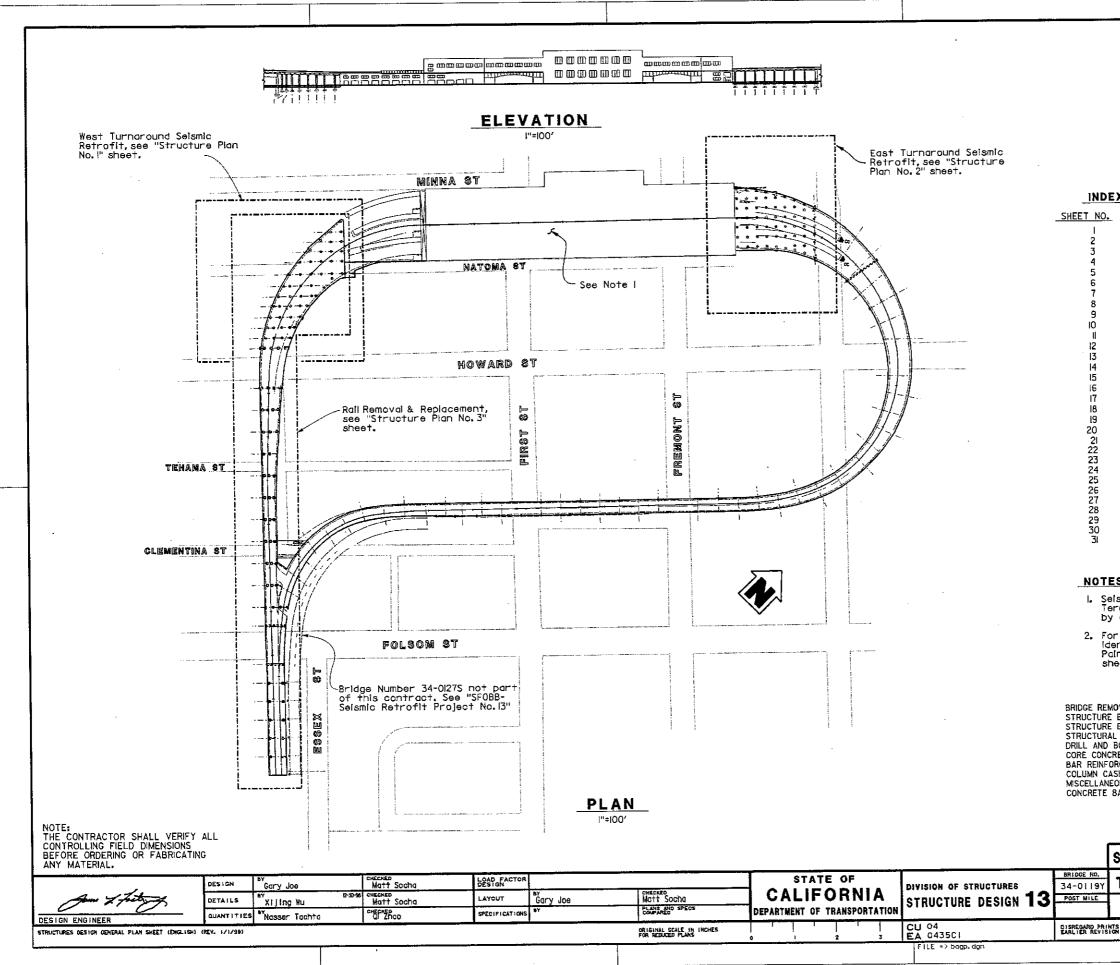
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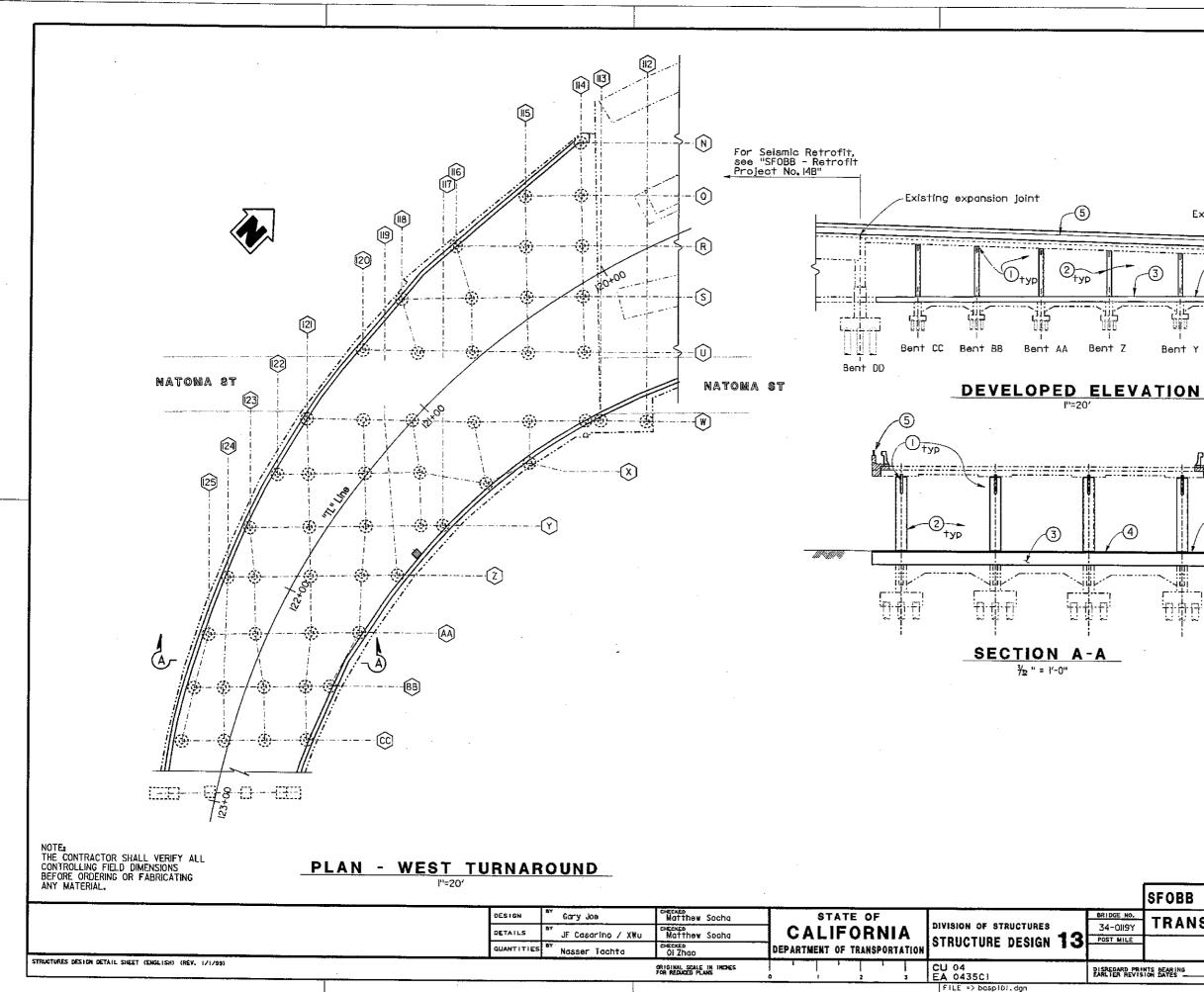
WS SFOBB-SEISMIC RETROFIT PROJECT NO. 14A OFFICE OF STRUCTURE FOUNDATIONS . ENGINEERING SERVICE CENTER 15555E1100 -Built log of Test Boings sheet is considered an informational document only. As such, the Sis California registration seel with signature, Source number and registration cartificate explanation de H does This de CIST. COUNTY ROUTE POST MILES - TOTAL PROJECT SHALL JOS Reza Mahailat 14 49374 3 Exp 8-30-200 CIVIL S.F. BAYSHORE VIADUCT (Bent L98 to L103) OF CALLE LOG OF TEST BORINGS 4 OF 5 IGS IS AVAILABLE NANCE AND BRIDGE N E CU: 04 EA: 0435C1 34-0068 follows TOTIONS 8-110, 114, 117, 128 (130) (seconds per hal) driving 14 4-20d with No.2. HKiernan-Terry air hammer () 1191 8-113, 115, f 118 (blows per foot) driving 14° Sampler with 140 lb hommer and a 30° treefoll B-118 kiline CHC dotum is SCOO It below U.S.C.+G.S. mean sea leve 8-118 9-1/7 11/25 £1, 12 2 ACt Cons Porement 1.1.1.1.1 Rubble ; Filled 10 15.31 moterial BPF Loose fine to med gr. Very soft block Clay. ..10 . 20 Very soft blue Clay. peat & shells -30 Bluish green Sandy Clay. Very compact 40 greenet Silly Send. Very compact on Silly Send Very compact from Silly Sand 1.20.50 1-11-11 - 60 PROFILE-FALLING Scale Vert 1"-10" Horiz 1"+20 NOTES THE CONTRACTOR & ATTENTION IS DIRECTED TO SECTION 2, MATCHA (C) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIFIC PROVISIONS ACCOMPANYING THIS SET OF PLANE CLASSIFICATION OF SAFEM MATERIAL AS SHOWIN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT LONSTAULD TO MPLY MICHANICAL ANALISIS. AS BUILT MICROFILMED CORRECTIONS BY W. THOMPSON DATE BAYSHORE FREEWAY 8" to 4" STREETS. S.F. Boyshore Viaduct LOG OF TEST BORINGS 5 of 6 Ar Shewn br340088-1tb#04of05.tif



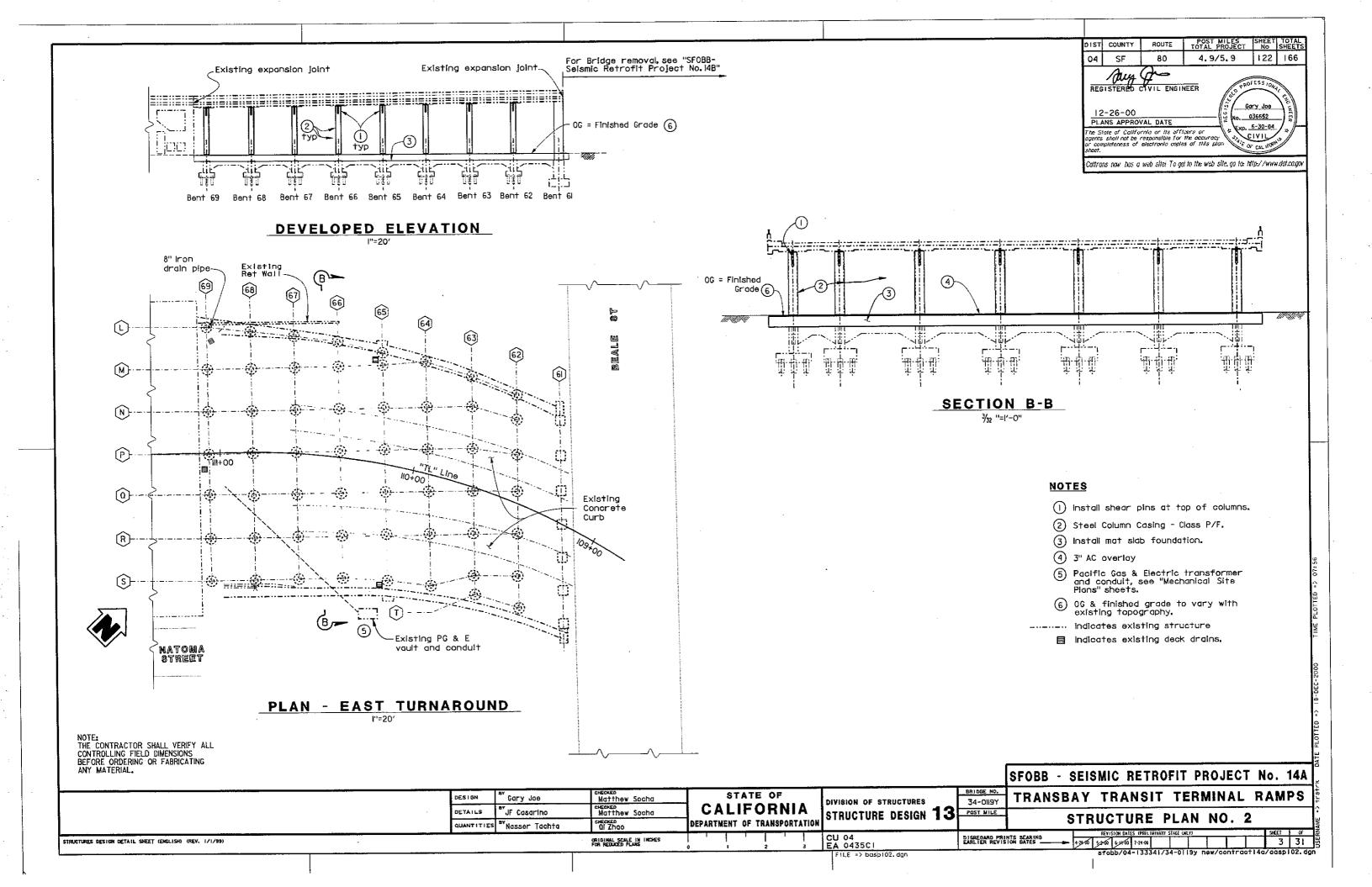
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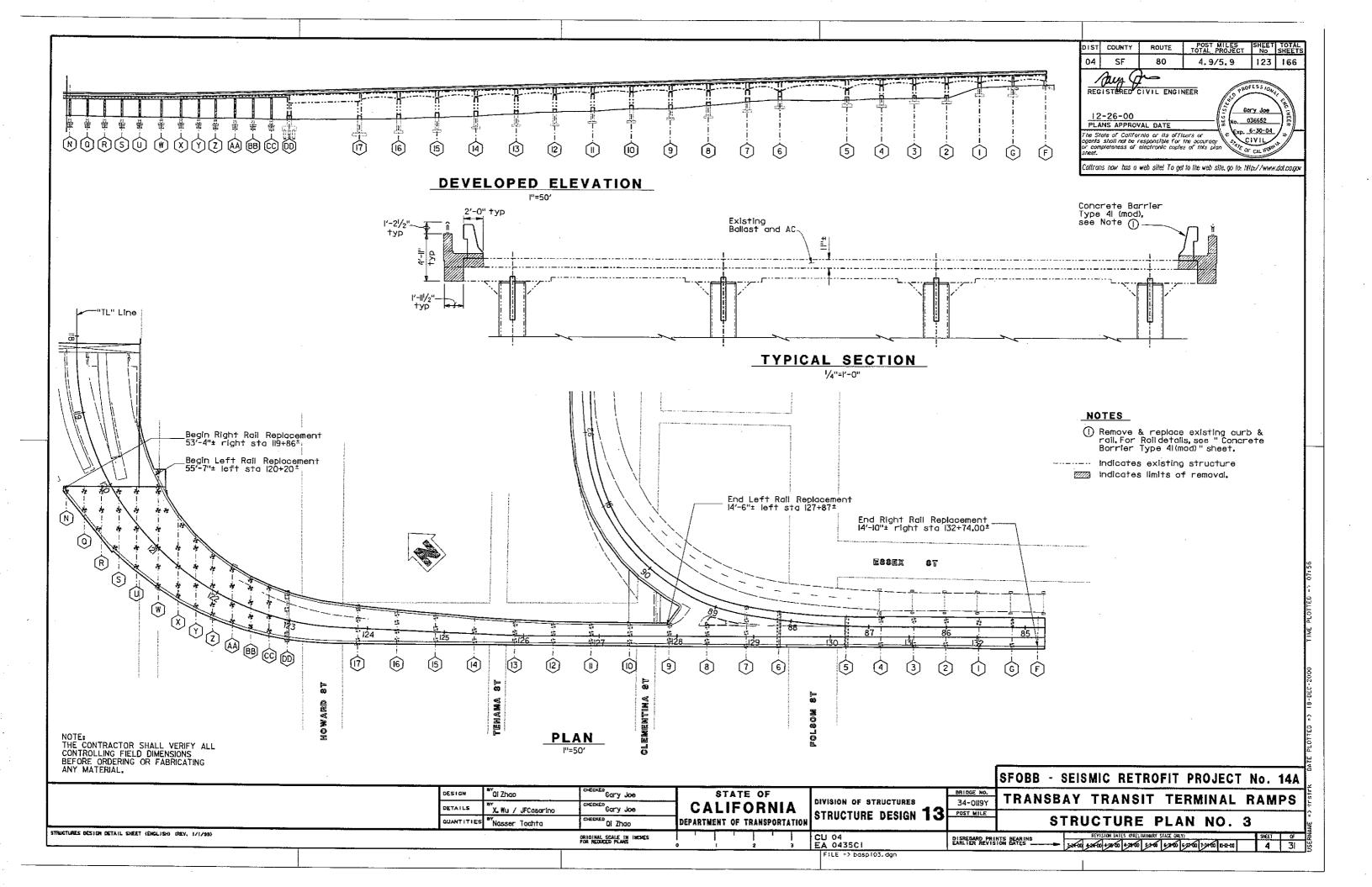


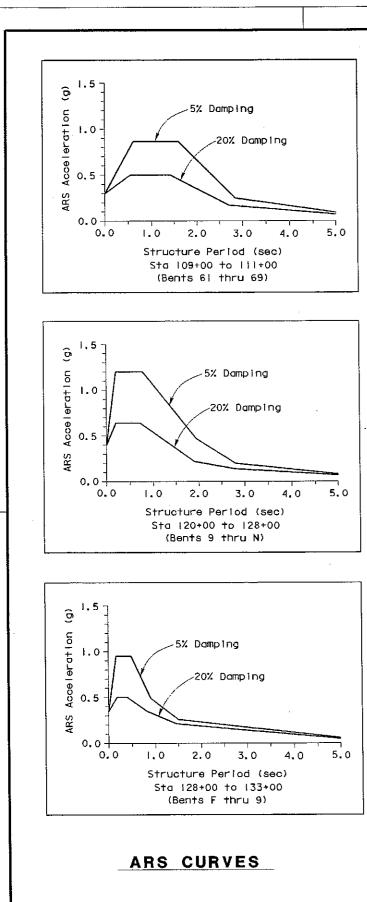
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DIST COUNTY ROUTE POST MILES SHEET TOTAL PROJECT No SHEET 04 SF 80 4.9/5.9 121 166 REGISTERED CIVIL ENGINEER PROFESS Gory Joe 12-26-00 036652 PLANS APPROVAL DATE EXP. 6-30-04 The State of California or its officers or agents shall not be responsible for the occuracy or completeness of electronic copies of this pl CIVIL OF FR Callrans now has a web site! To get to the web site, go to: http://www.dor.ca.gov Existing expansion joint-17'-3"±* CC: CC: C (··· ďi≒ UĮ. 1121 Bent X Bent W Bent Y OG = Finished Grade (6) * Minimum vertical clearance -OG = Finished Grade (6) 11/8/1/8 守舟守 NOTES (1) install shear pins at top of columns. (2) Steel Column Casing - Class P/F. (3) Install mat slab foundation. (4) 3" AC overlay 5 Remove and replace existing curb & rail with Concrete Barrier Type 41(Mad). For limits of work see "Structure Plan No.3" sheet. 6 OG & finished grade to vary with existing topography. ------ Indicates existing structure [777] Indicates limits of removal. 🗄 Indicates existing deck drains. SFOBB - SEISMIC RETROFIT PROJECT No. 14A TRANSBAY TRANSIT TERMINAL RAMPS **STRUCTURE PLAN NO. 1** ٥-١٦-٥٥ محمدة المحمدة ا sfobb/04-133341/34-0119y 2 31







	PAINT	TABLE	
At the follo Transit Term Facing traff	wing locations, linal Ramps" and lc:	paint "SFOBB d "Bridge Numb	Transbay ər 34-0119Y",
C	olumn l2l₩		. <u> </u>
C	olumn l24₩		
B	ent DD, east a	side	
B	ent 14, east :	side	
B	ent 9, west	side	-
В	ent5, west	side	
В	ent 61, north	side	
A	but F, east l	barrier rall	
At the fol	lowing location	ns, paint Bent	number:
Bent G, e	ast column and	east barrier	rall
Bents I-	i7, east column	n and east_bar	rier rail
Bent DD,	east column ar	nd east barrie	r rail
Bents 61	-69, south col	umn and south	barrier rai
At the fol	lowing location	ns, paint Colu	mn number:
112W	113W	115X	116X
117Y	19Z	12044	120BB
12100	12300	12400	12500
125BB	12444	124Z	123Y
122X	121₩	I 20U	1185
[16R	1150	LI 4N	

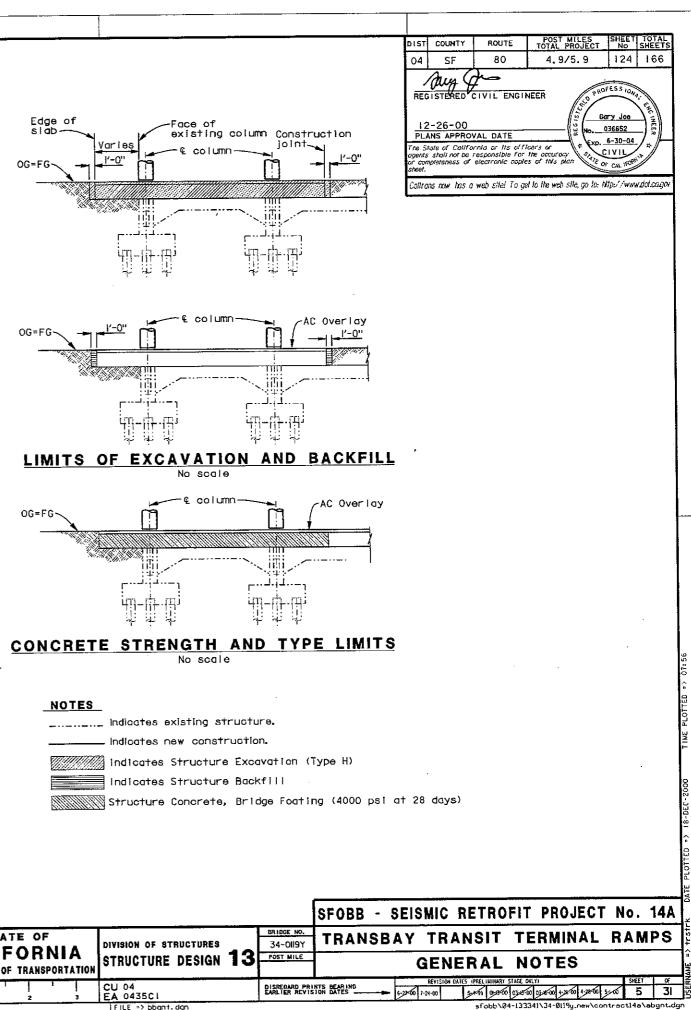
GENERAL NOTES LOAD FACTOR DESIGN

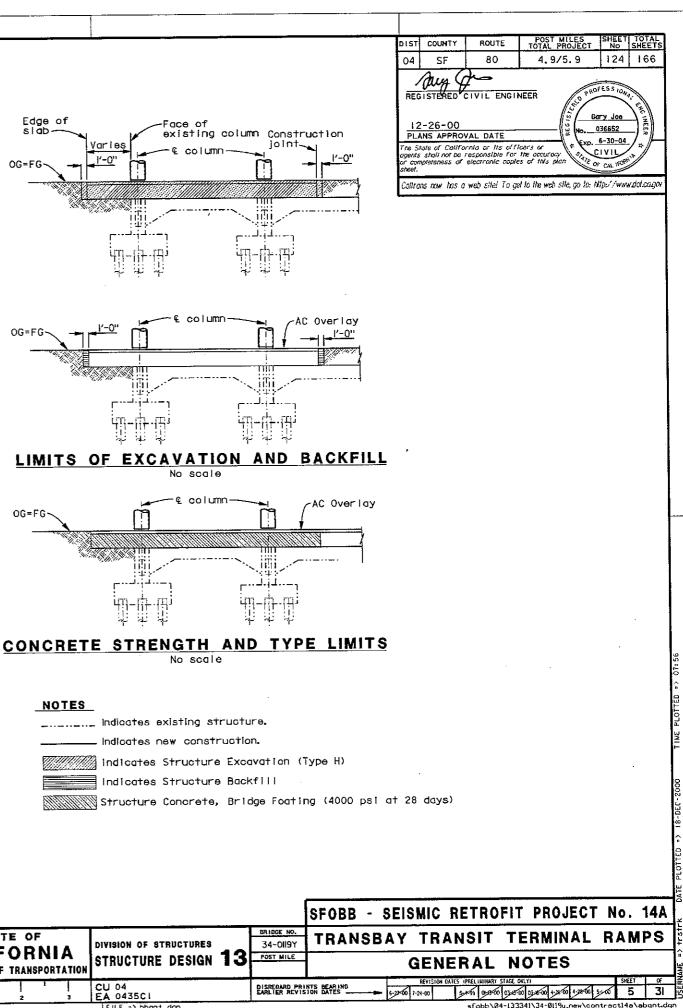
BRIDGE DESIGN SPECIFICATIONS DESIGN: (1983 AASHTO with Interims and Revisions by CALTRANS) "Non-Essential" Facility Retrofit

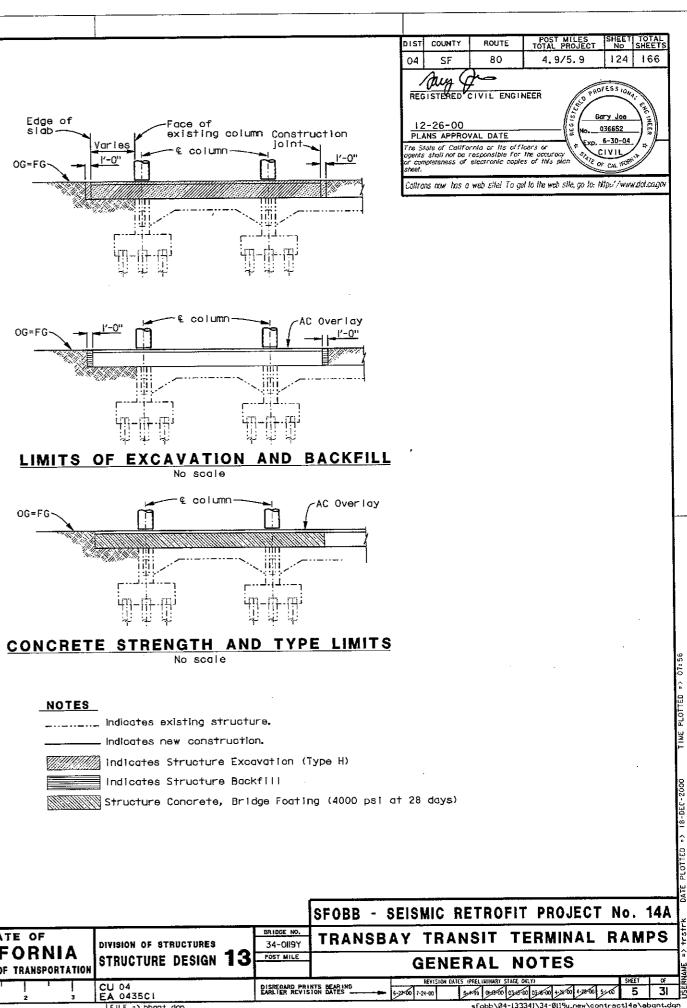
REINFORCED CONCRETE:	
EXISTING (ASSUMED FOR RETROFIT EVALUATION)	$f_y = 33,000 \text{ psi}$ (GRADE 33) $f_y = 44,000 \text{ psi}$ (GRADE 40) $f_c = 5,000 \text{ psi}$
NEW CONSTRUCTION	f _y = 60,000 psi f _c = 4,000 psi
STRUCTURAL STEEL: ASTM A 36 f _y = 36,000) psl
HIGH STRENGTH RODS: ASTM A 722 f _{pu} = 150,	

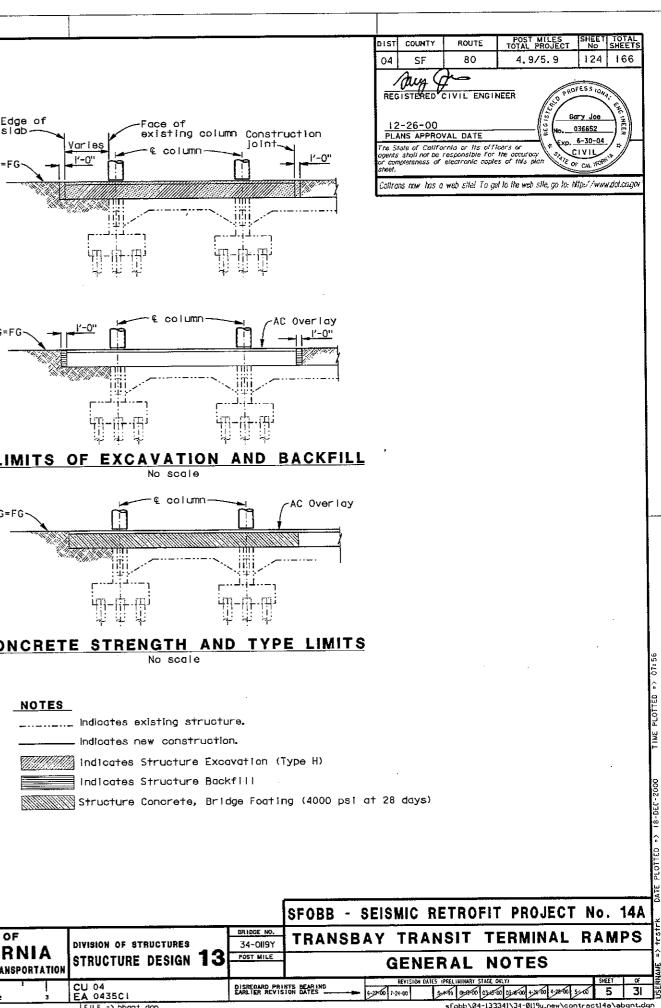
SEISMIC LOADING: Site Specific ARS Curves as shown.

SPREAD FOOTINGS		
PRESSURE:	=	2 TSF
	=	2 TSF

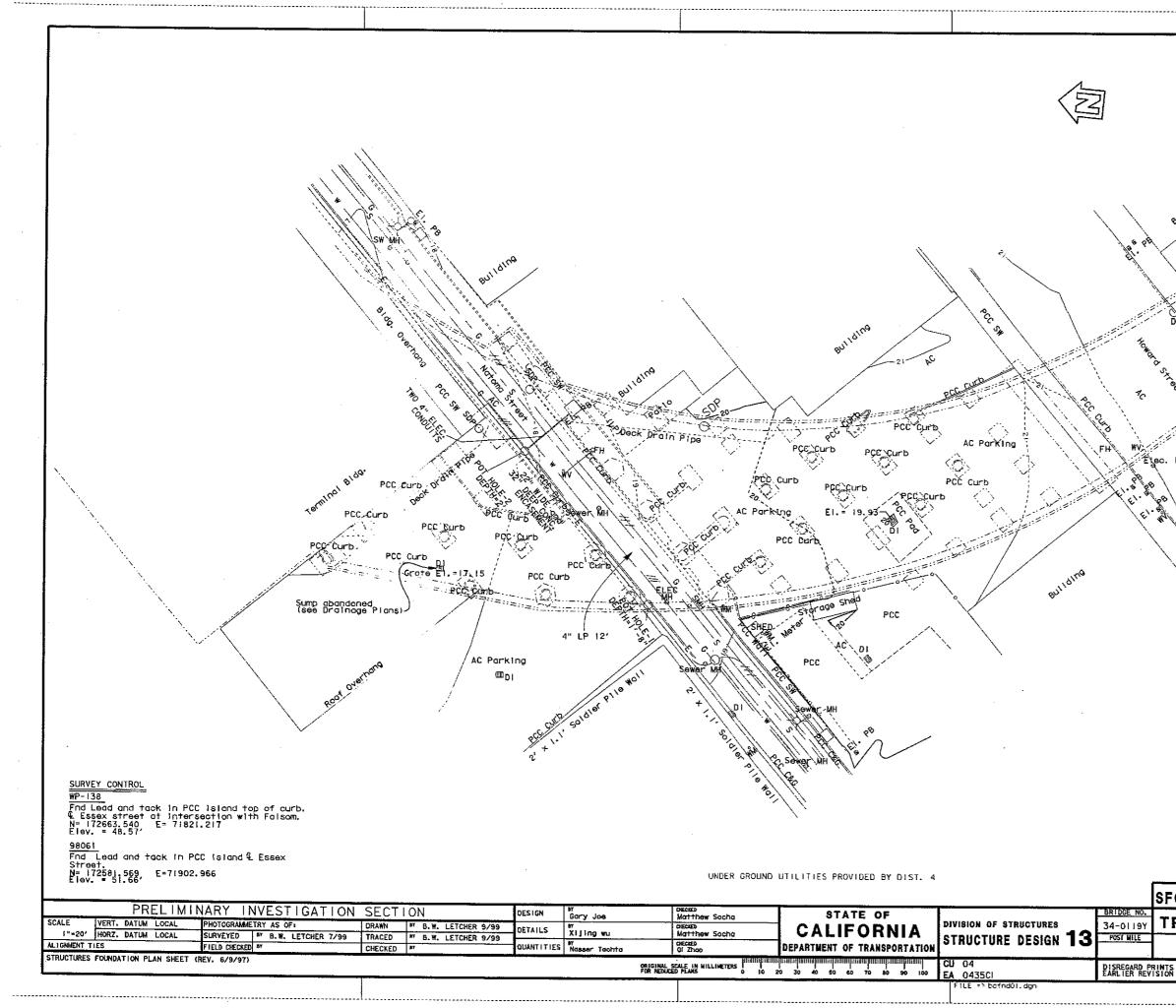




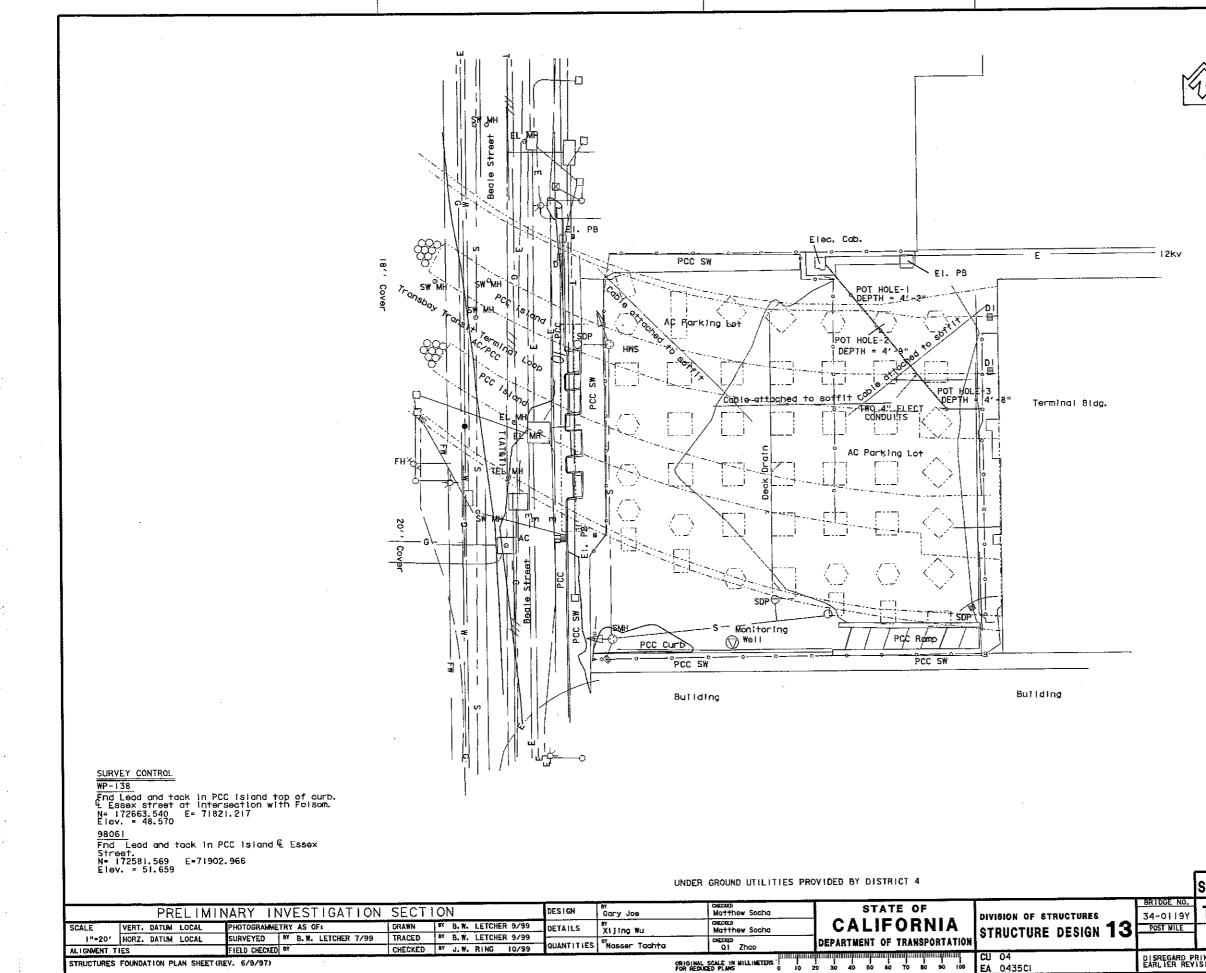




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······································	DESIGN BY GOTY JOO	CHECKED Matthew Socha	STATE OF	DIVISION OF STRUCTURES	BRIDGE NO. 34-OII9Y
	DETAILS BY XIJING WU	CHECKED Natthew Socha	CALIFORNIA	STRUCTURE DESIGN 13	POST MILE
	QUANTITIES BY Nosser Tachta	ûl Zhao	DEPARIMENT OF TRANSPORTATION	· · · · · · · · · · · · · · · ·	<u> </u> L
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 1/1/99)		ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 04 EA 0435C1	DISREGARD PRINTS E EARLIER REVISION D
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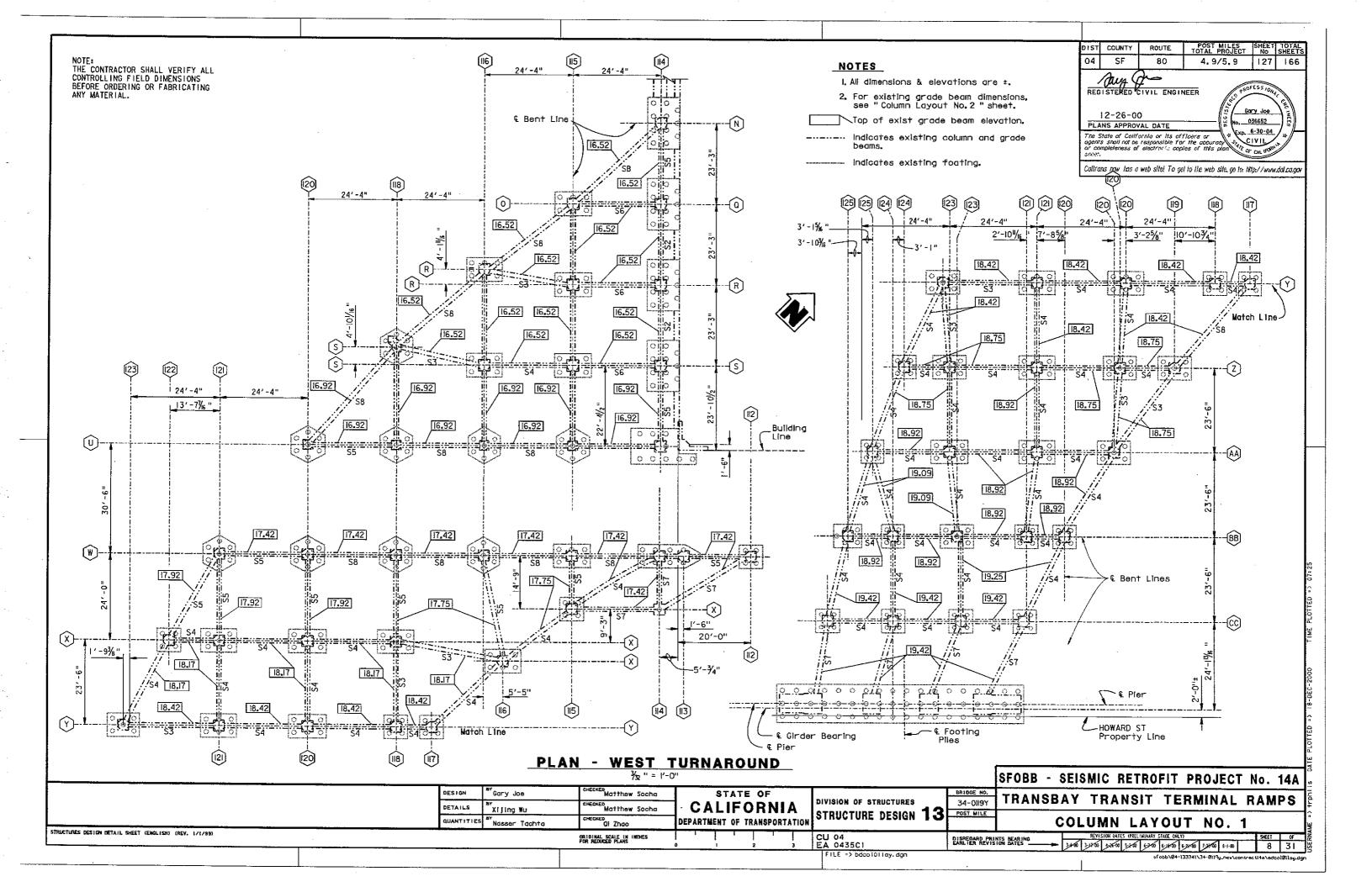


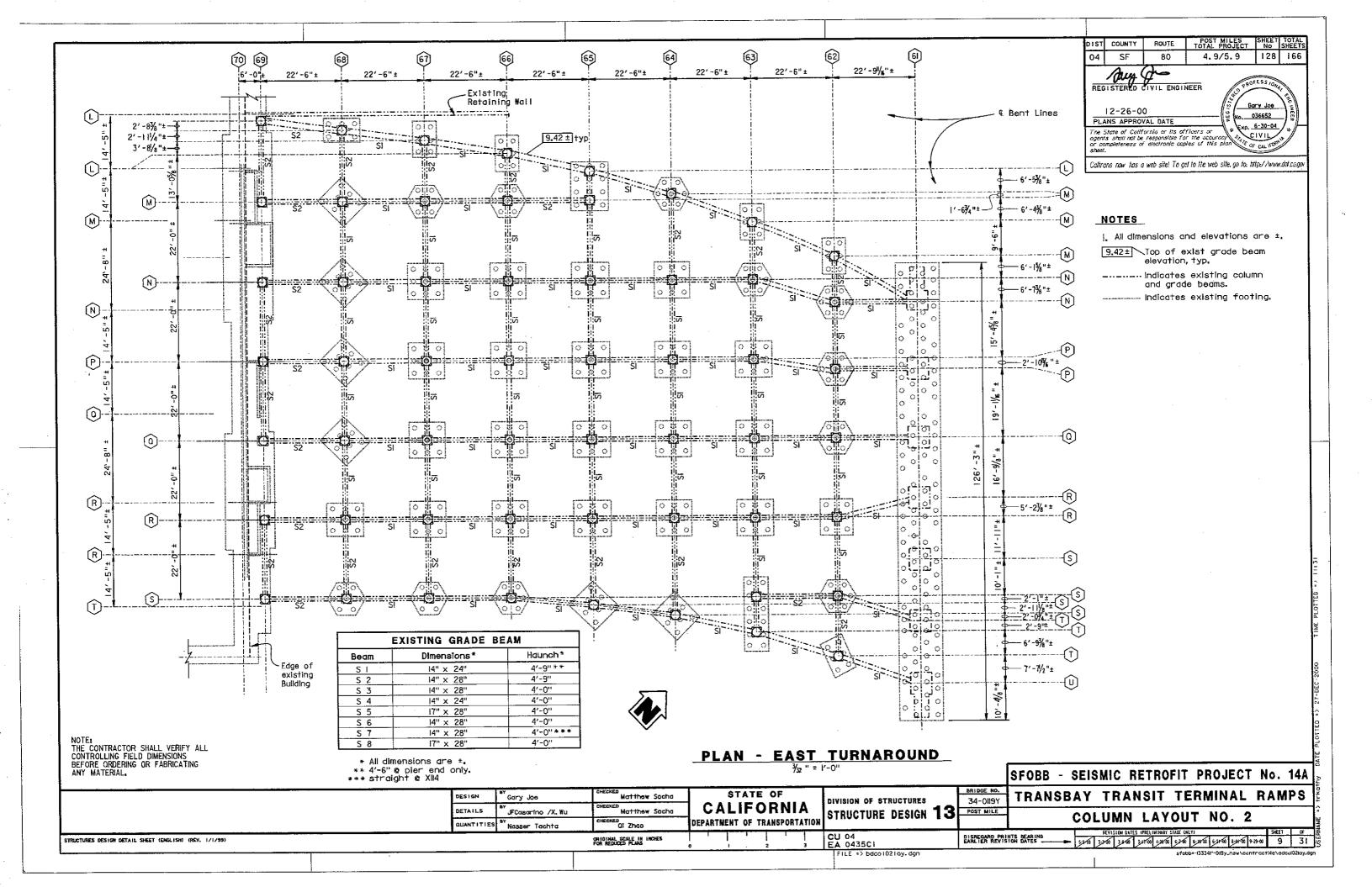
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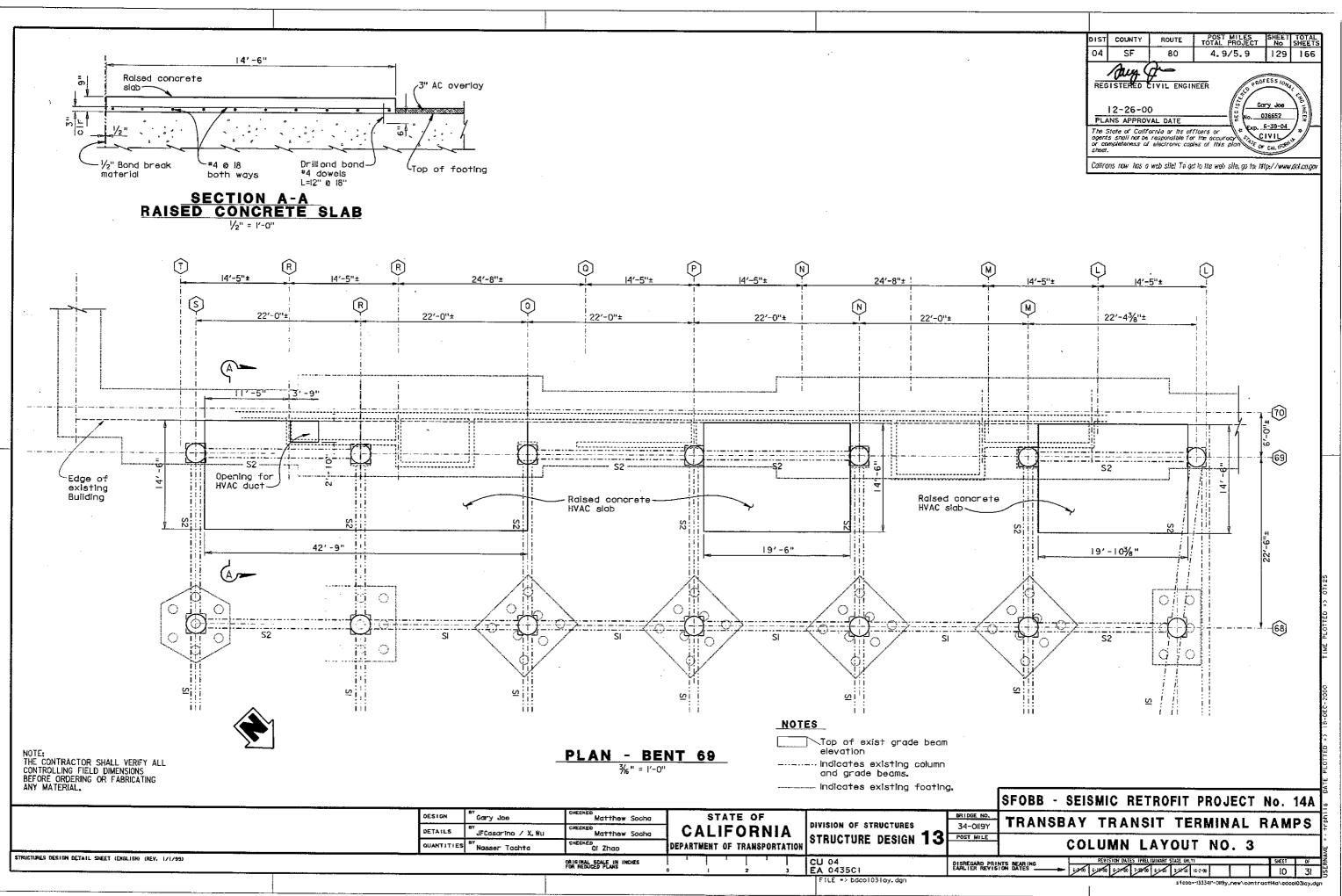


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Column No.	Height (ff) "н"	Existing Cover (ft) "G"		Column No.	Height (ft) ″н"
II2W	16.70	0.96		12 1 Z	20.87
113W	17,44	1.09		12144	20.88
114N	19,32	0.86		I2IBB	22.46
1140	19,15	0.99		12100	21.04
II4R	19,15	0.94		122X	21.31
114S	18.35	I . 70		123Y	2t.10
1140	18,45	5 ,		123Z	21,76
II4W	17,38	I . I5		123AA	21,85
1150	19.89	0,95		I23BB	22.26
115R	19.88	0,87		123CC	21.76
1155	18,84	1.82		124Z	22.19
1150	18.74	I _ 42		12 4 AA	22.64
li5₩ -	18,16	0.9		124B8	22,59
115X	17.35	1.71		124CC	22.23
116R	20.30	I . 23		125BB	23,33
1165	18,93	2.31		125CC	22.97
11613	18,92	1.63		<u></u>	
116W	18.68	1.26			
li6X	17.16	I . 28			
117Y	17,19	I.63			
118S	19.72	2.18			
118U	19.25	2.33			
li8W	19,25	I . 55			-
lisx	18,57	0.93			
118Y	17.39	I . 38			
119Z	18.88	2,36			
120U	19,89	2,52			
120W	20.19	I . 3I			
120X	18.54	2.06			
120Y	18.43	2.28	ļ		
120Z	19.75	2,15			
120AA	19.81	1,46			
I20BB	21,41	1.53			
12IW	20.90	1.47		-	
12iX	20,35	1.32			
12IY	19,78	I.88	1		

Column No. Height (ff) " H " Existing Cover (ff) " G " Col 62M 20.80 I.22 2 62N 20.65 I.25 2 62P 20.46 I.33 2 62P 20.46 I.33 2 620 20.33 I.34 2 62R 20.27 I.28 2 62S 20.15 I.29 2 62T 20.11 I.21 2 63M 20.33 I.34 3 63N 20.12 I.45 2 63N 20.12 I.45 3 63R 19.86 I.61 3 63T 19.80 I.26 3 63T 19.80 I.26 3 64M 19.89 I.46 3 64N 19.64 I.61 3 64N 19.41 I.75 3 640 19.37 I.62 65N 19.		EAST T	URNAROUN	D CO
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62P 20.46 I.33 620 20.33 I.34 62R 20.27 I.28 62S 20.15 I.29 62T 20.11 I.21 63M 20.33 I.34 63N 20.12 I.45 63P I9.86 I.61 630 I9.91 I.45 63R I9.88 I.38 63S I9.79 I.37 63T I9.80 I.26 64M I9.89 I.46 64N I9.64 I.61 64P I9.41 I.75 640 I9.38 I.68 64R I8.41 2.56 64S I9.37 I.62 65N I9.17 I.77 65P I8.96 I.94 65O I8.99 I.87 65S I9.04 I.77 65S I9.15 I.62 66L I9.17 I.77	62M	20.80	1.22	
620 20.33 I.34 62R 20.27 I.28 62S 20.15 I.29 62T 20,11 I.21 63M 20.33 I.34 63N 20.12 I.45 63P I9.86 I.61 630 I9.91 I.45 63R I9.88 I.38 63S I9.79 I.37 63T I9.80 I.26 64M I9.89 I.46 64N I9.64 I.61 64N I9.89 I.46 64N I9.64 I.61 64P I9.41 I.75 640 I9.38 I.68 64R I8.41 2.56 64S I9.37 I.50 65L I9.46 I.57 65M I9.17 I.77 65P I8.96 I.94 65C I8.99 I.87 65R I9.04 I.77	62N	20.65	1,25	
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	665	18.86	1.85	
67M 18.64 2.03	67L	18.66	2,01	
	67M	18,64	2,03	

COLUMN	TABLE	
Column No.	Height (ff) "Н"	Existing Cover (ft) "G"
67N	18.48	2.20
67P	18.39	2.29
670	18.46	2.22
67R	18.58	2_11
67S	18,61	2.08
68L	18.46	2,19
68M	18.37	2.28
68N	18,27	2.37
68P	18.17	2.47
68Q	18,27	2.37
68R	18.37	2.26
68\$	18.29	2.34
69L	1 7.3 5	3.25
69M	18.02	2,47
69N	18,02	2.47
69P	18.02	2.47
690	18.02	2.59
69R	18,02	2.49
695	17.96	2.64

Column

OG = Finished Grade



I, All dimensions & elevations are ±,

Existing Cover (ft) "G"

l.70

I**.**75

.99 1,48 I**.**44 1.50 1.47 1.45 I_69 1.39 1.70 1.51

I**_**87

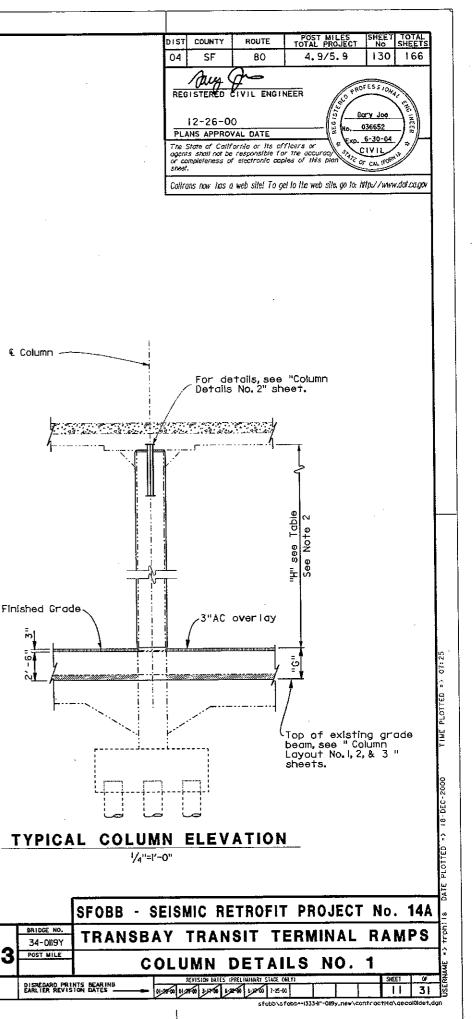
1.54 I**.**46 I**.**43

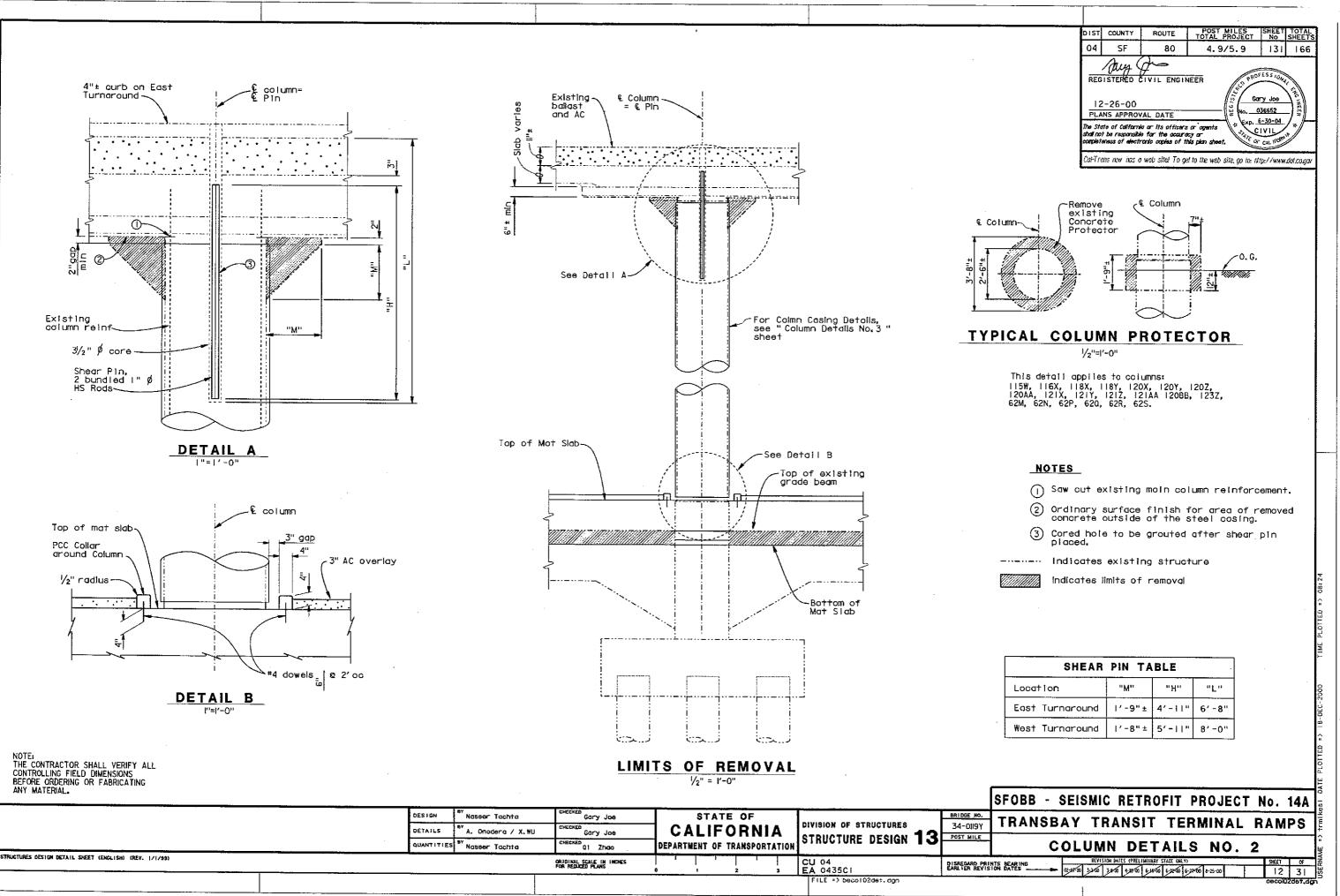
- 2. For details not shown, see "Column Details No. 2 & 3" sheets.
- Grade beam may need to be partially or totally removed.

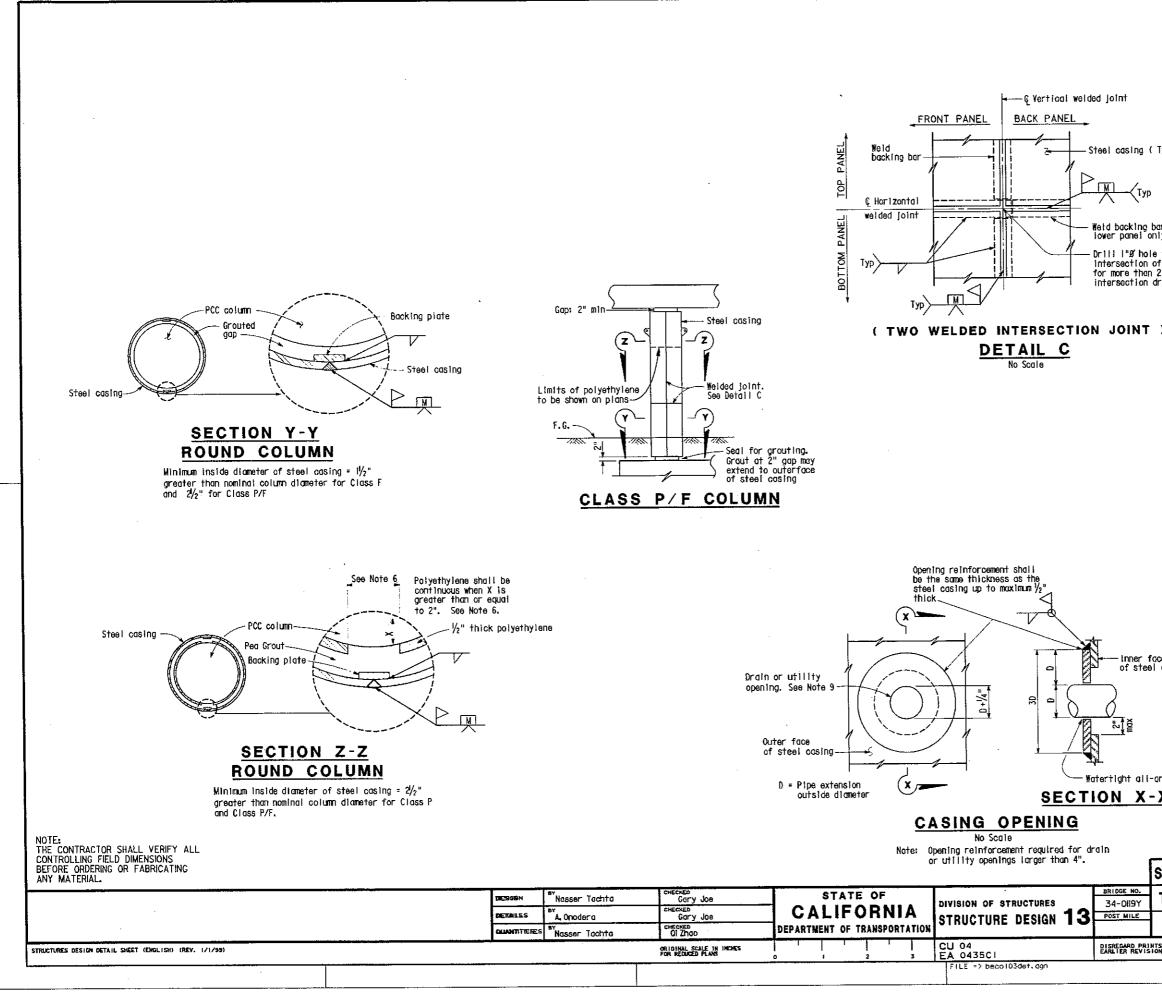
NOTE: Contractor shall verify all controlling field dimensions before ordering or fabricating

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DESIGN BY Gary Joe	CHECKED Matthew Socha	STATE OF	DIVISION OF STRUCTURES	BRIDGE NO. 34-DII9Y	F
DETAILS DY JFCasarino / X.WU	CHECKED Matthew Socha Qi Zhao	CALIFORNIA DEPARTMENT OF TRANSPORTATION	STRUCTURE DESIGN 13	POST MILE	_
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV, 1/1/99)	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		CU 04 EA 0435C1	DISREGARD PRINTS EARLIER REVISION	ł
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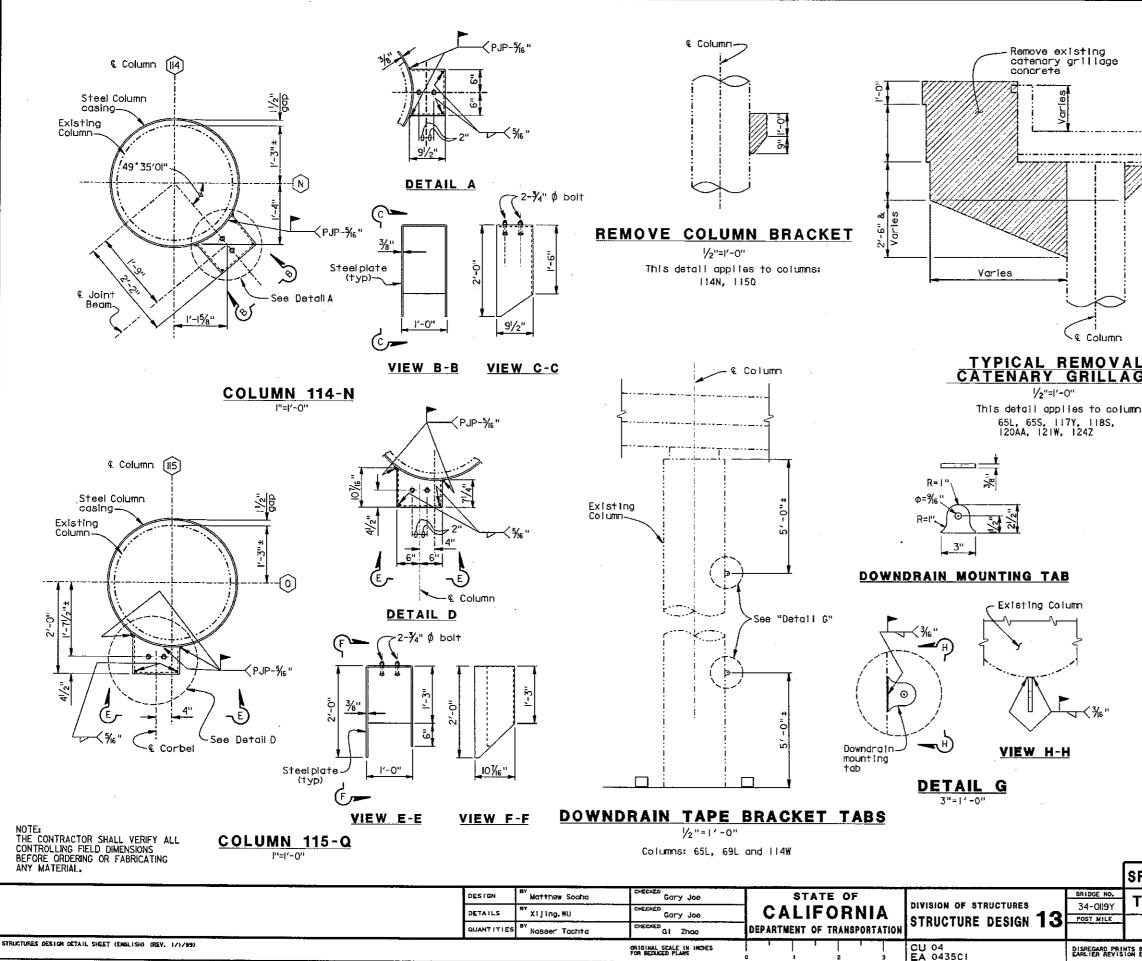
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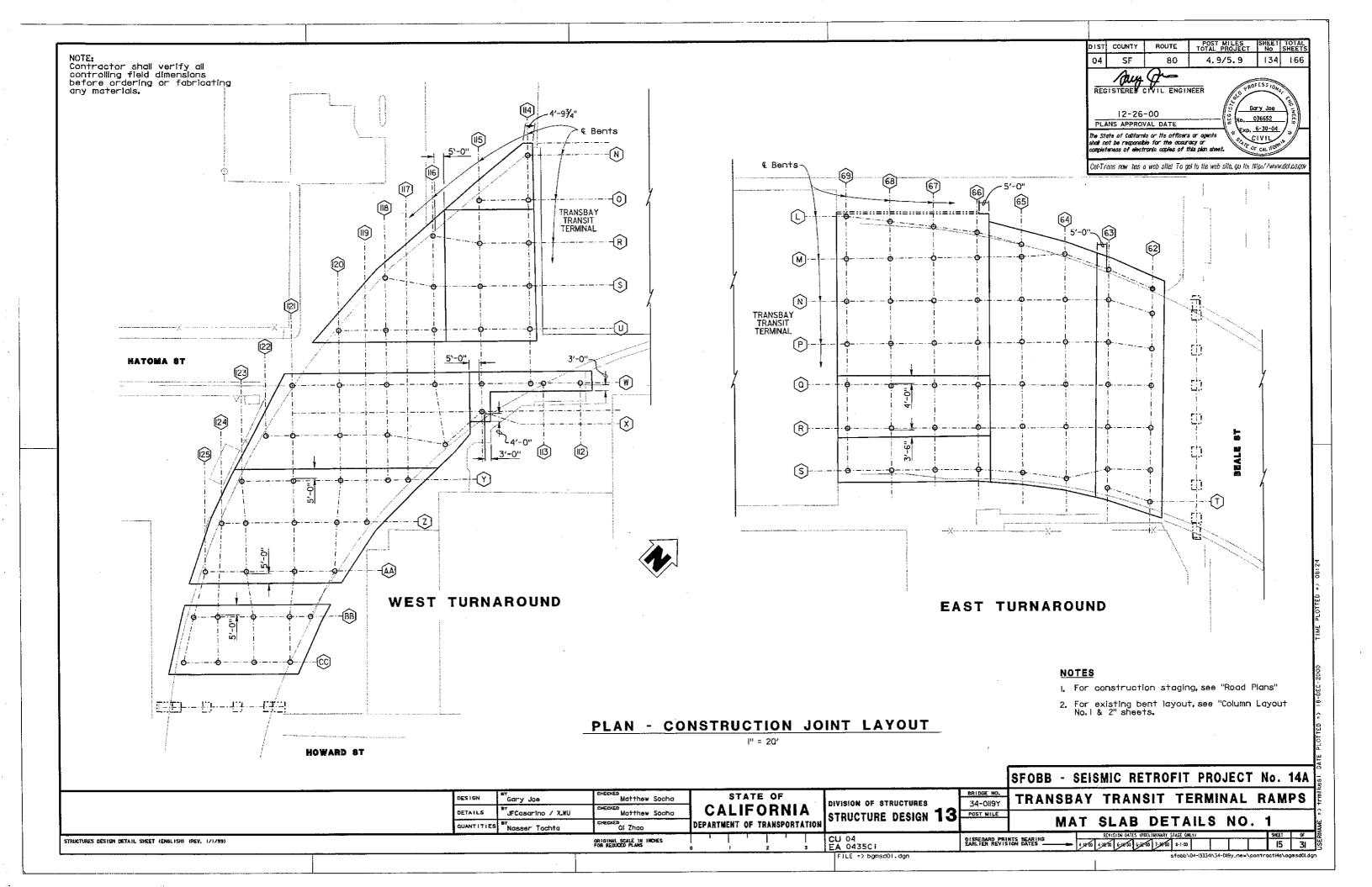


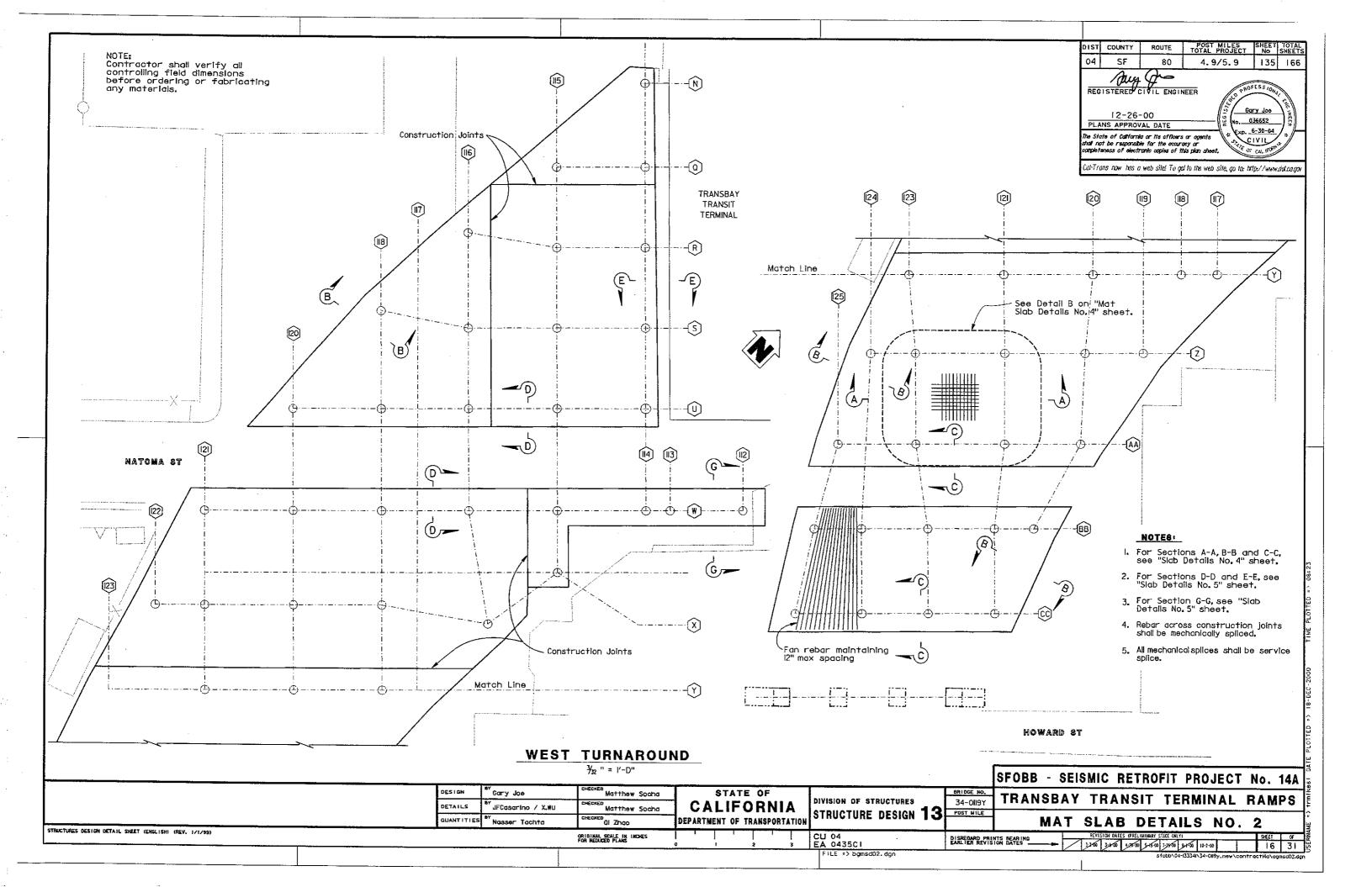
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	REGISTERED CIVIL ENGINEER	E)
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	NOTES	
	to remain flush. Minimum clearance from PCC column to casing shall be maintained.	
	 Appropriate injection nozzles to be provided on casing, but remove and ground flush following completion af grouting operation, 	
	 All voids between steel casing and polyethylene (Class P and Class P/F), and steel casing and PCC column (Class F) to be filled with grout. 	,
	4) Location and number of vertical and horizontal weids to be determined by the Controctor, and subject to the approval of the Engineer. The location of casing weids are for illustration. No skip weids allowed.	
	5) Circular steel casing to be ¼" thick minimum for casings with a 4'-4" diameter or less; all other steel casings to be ¾" thick unless noted different on contract plans. Backing plates to be the same thickness as casing up to maximum ½" thick	ti y
	6) Contractor shall remove 12" polyethylene strip behind backing plate if backing plate is closer than 1/2" from polyethylene.	
	 Waterproof limits for steel casings. Typical for Classes "P", "F" and "P/F". 	
ព្វ	8) Minimum length of Classes "P" and "F" casing shall be 1.50 times the largest dimension of prismatic section of column, or 2" above finished grade whichever is greater. Lengths other than the specified minimum shall be shown on detail sheets.	
	9) For pipe extensions, opening shall be no more than 1/4" greater than the pipe extension diameter. For other openings, the opening diameter to be determin by the Engineer.	ed
1	10) Steel casings for Columns 114N and 1150 shall be %" thick.	
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	COLUMN DETAILS NO. 3	

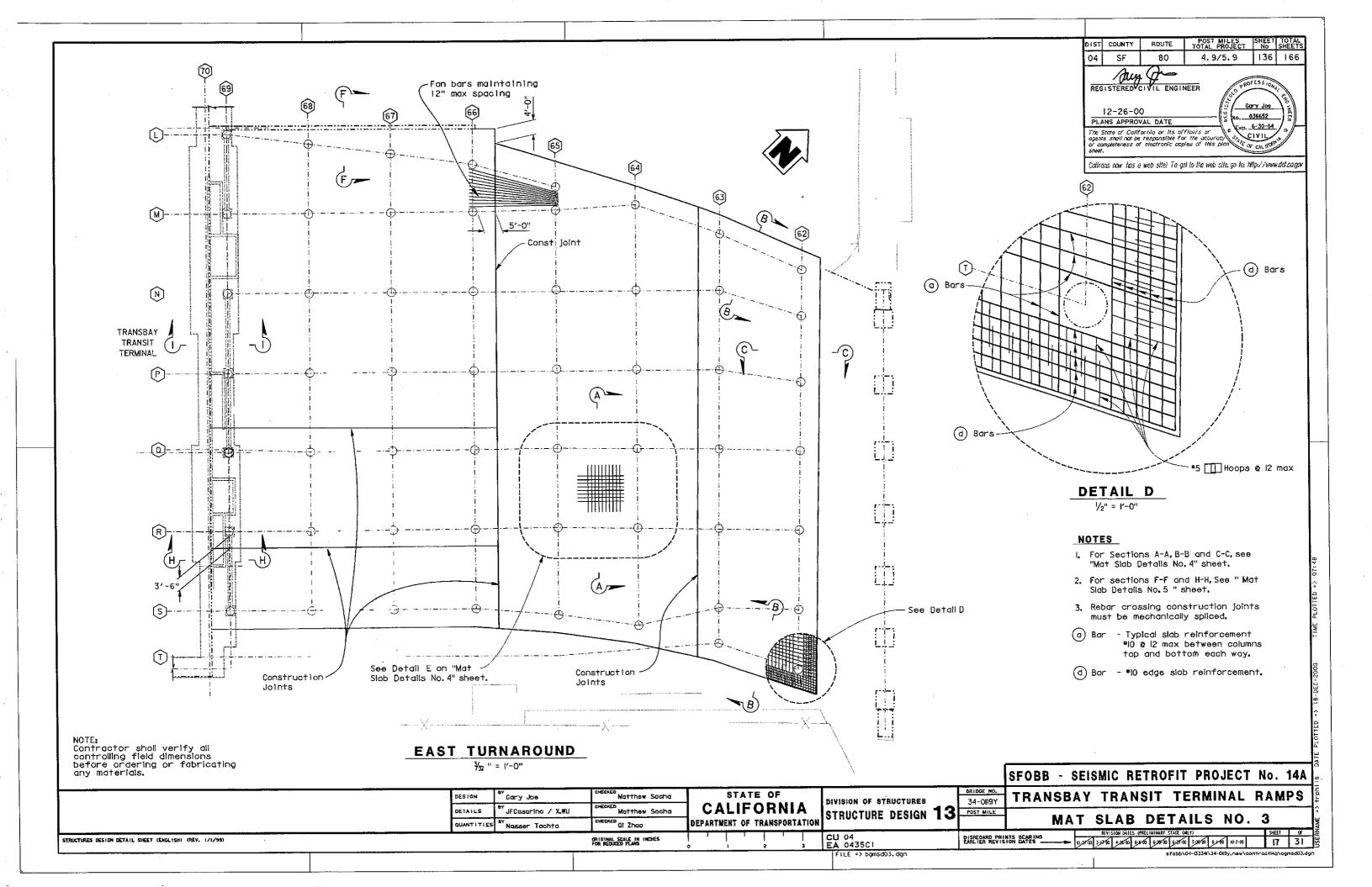


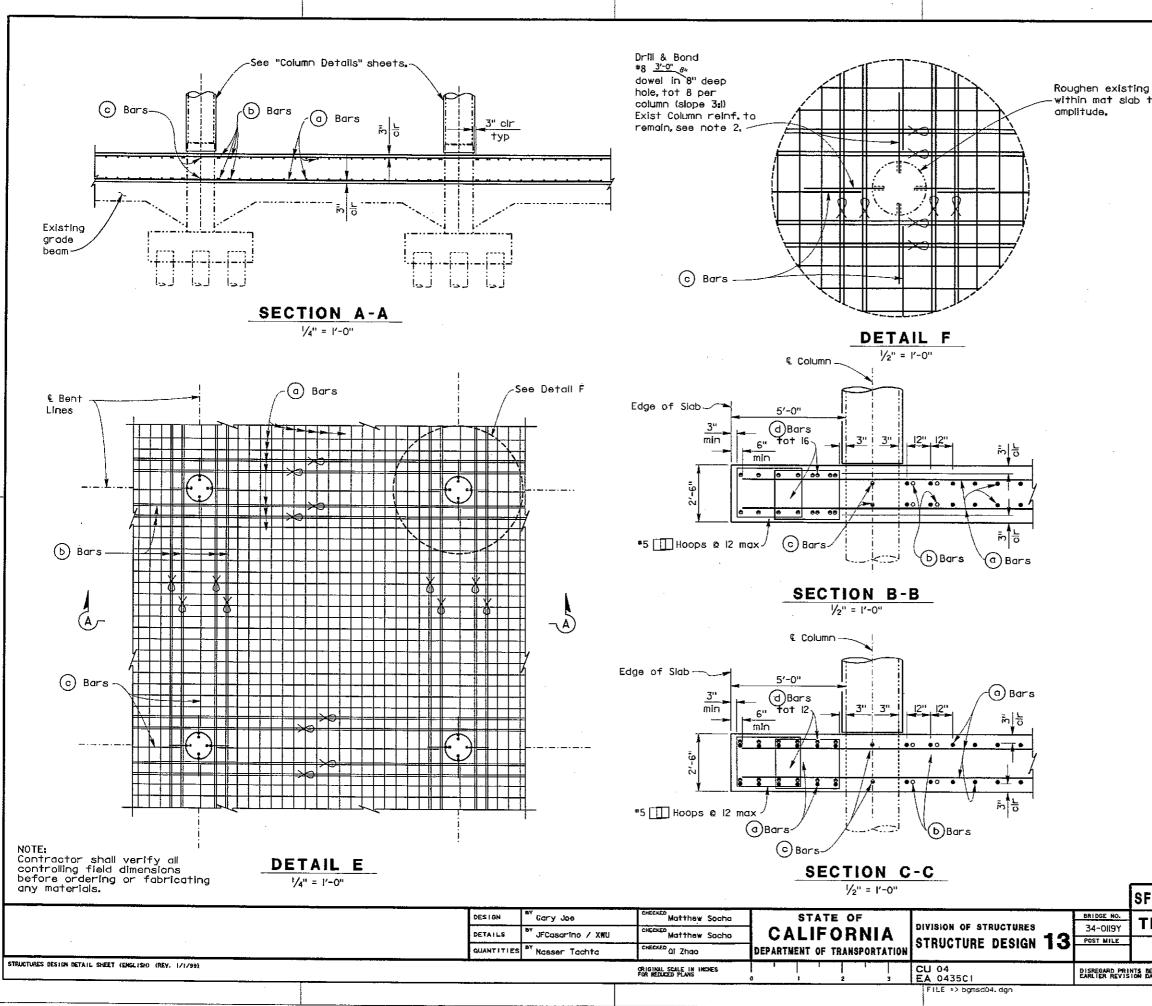
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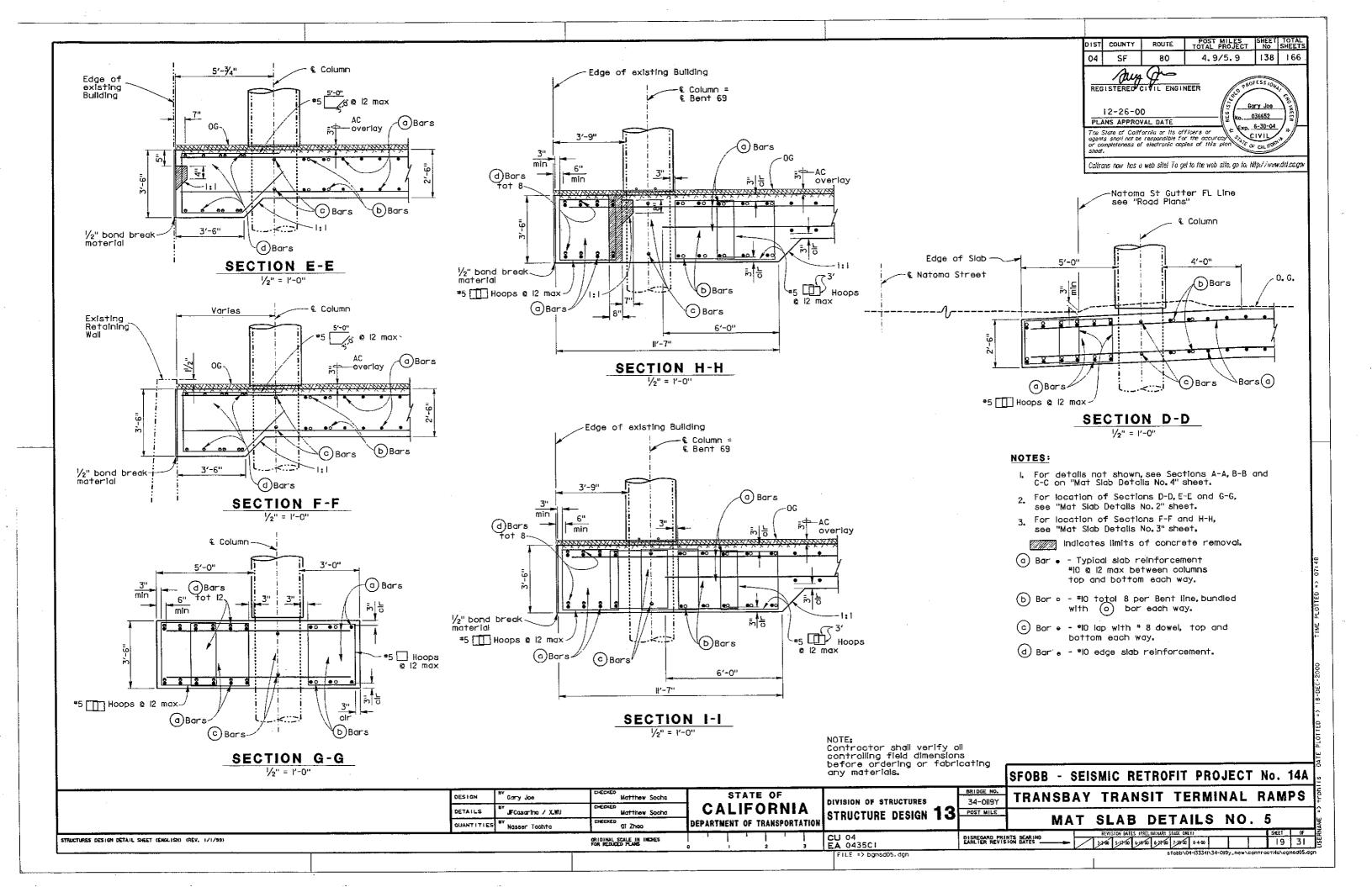


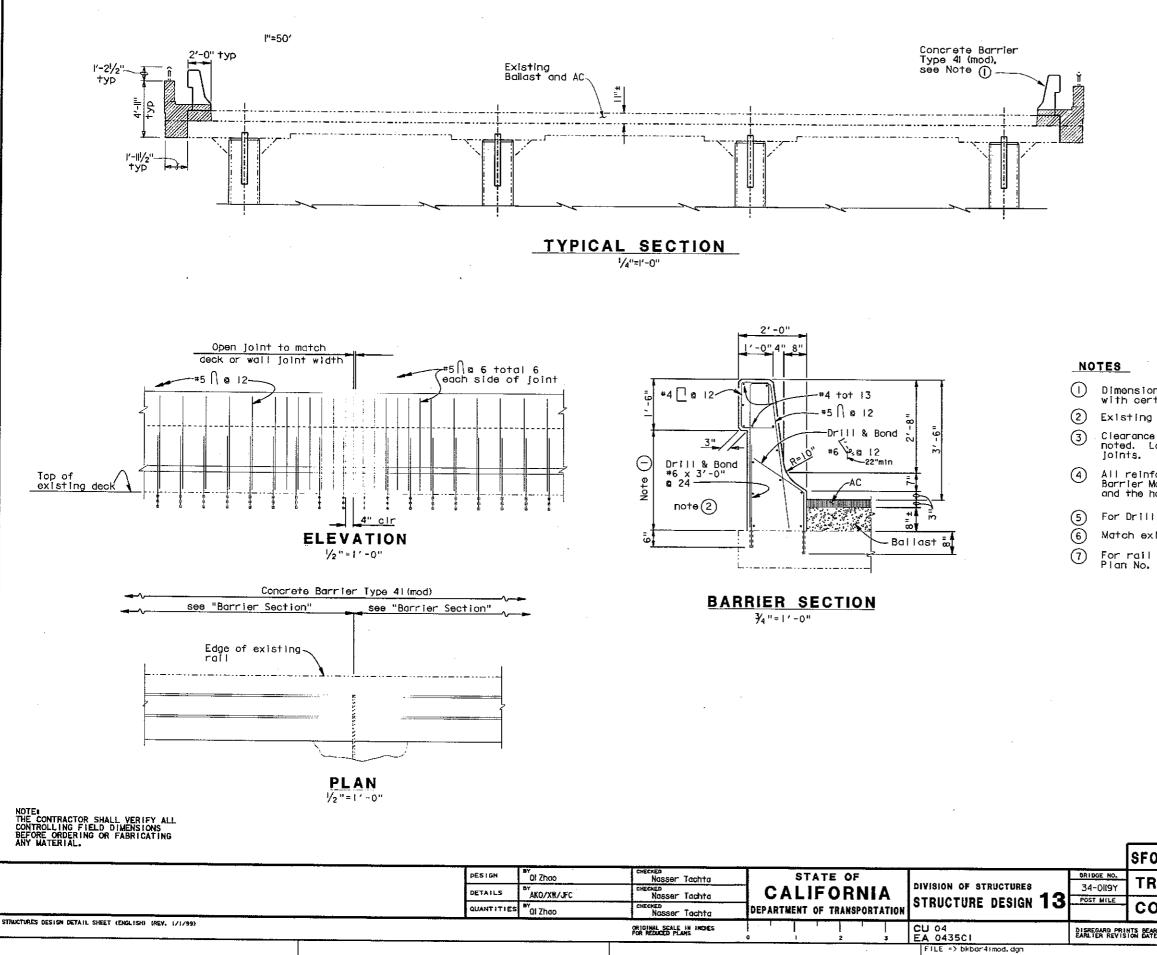




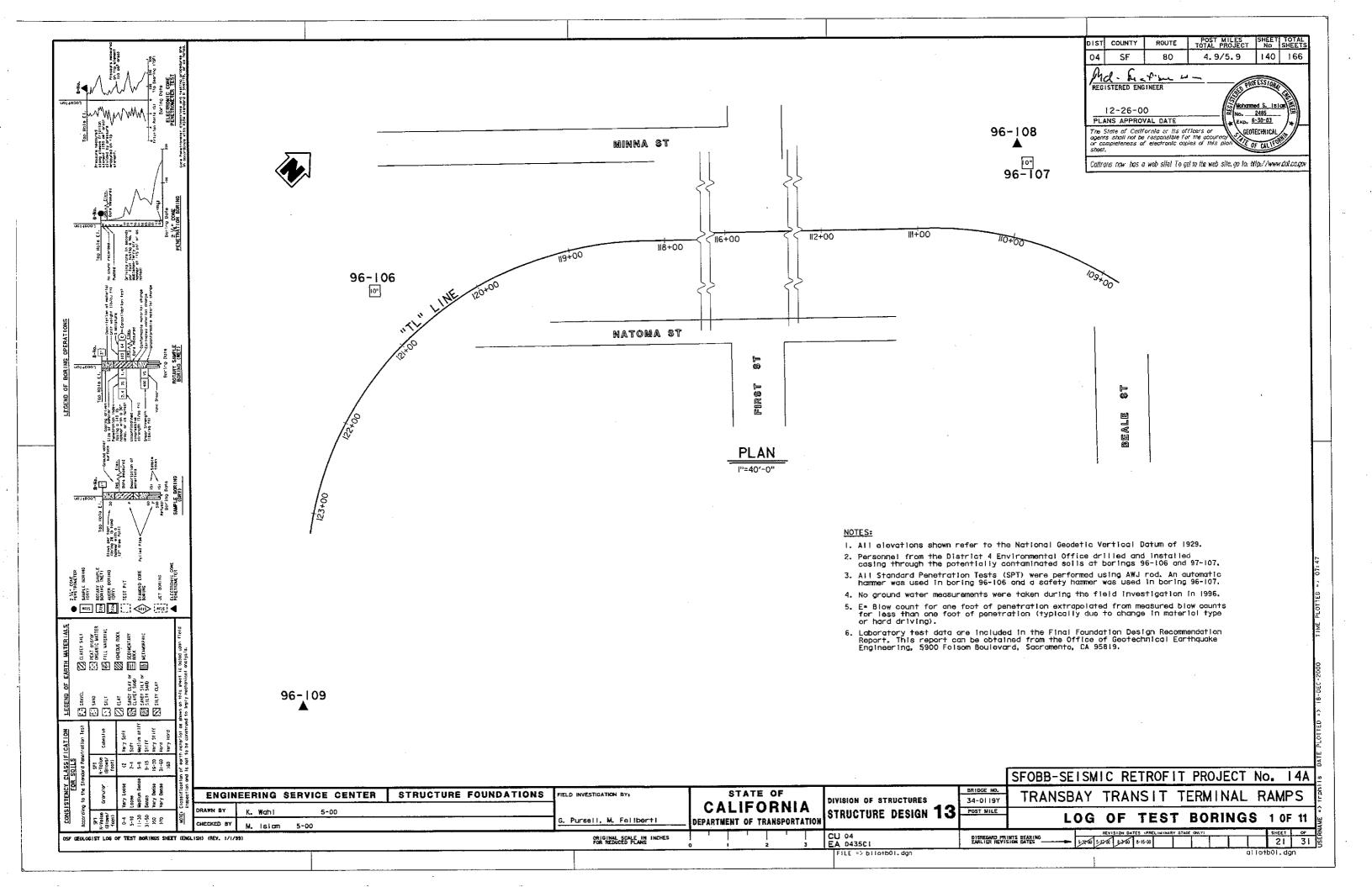
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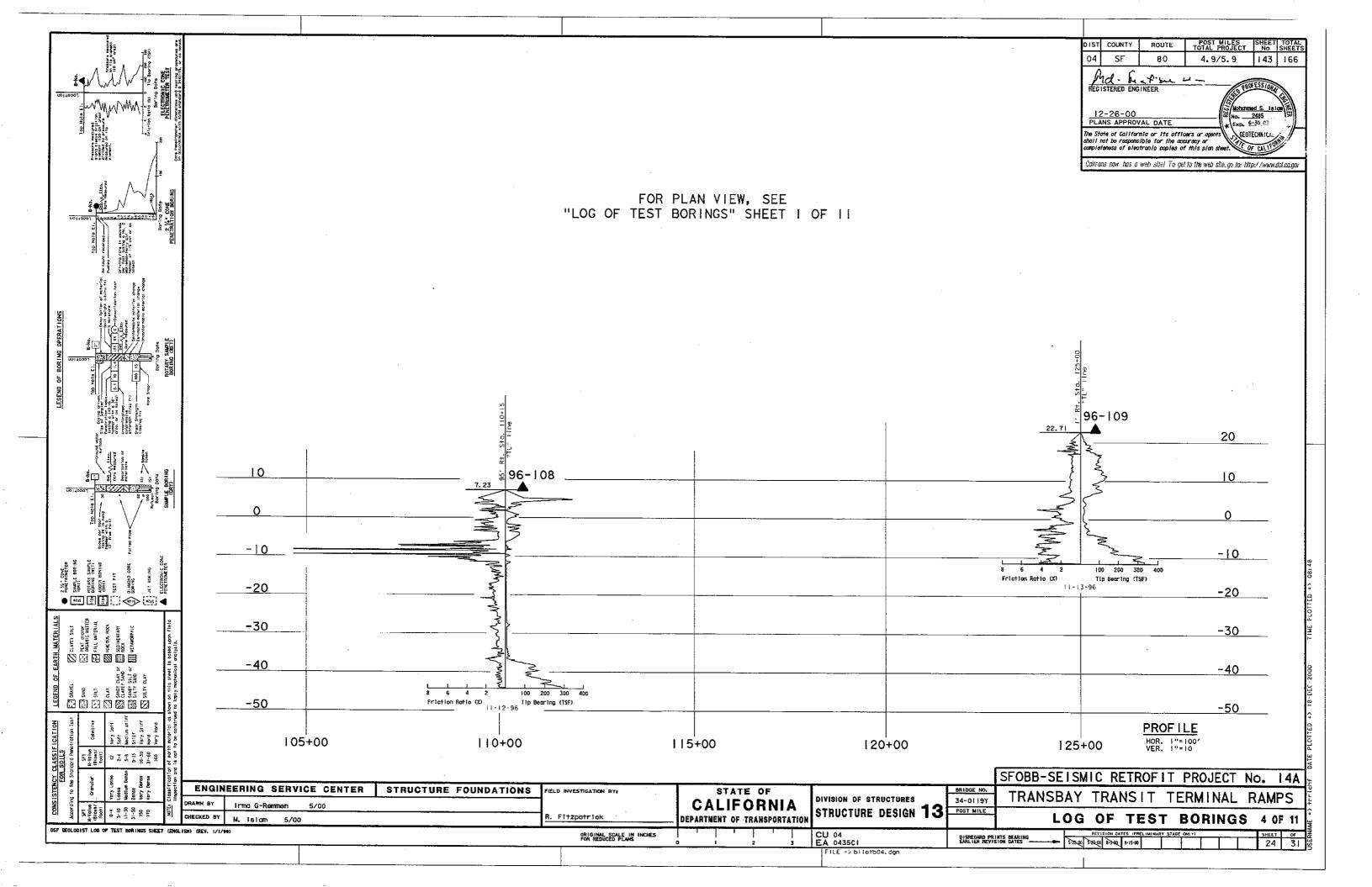


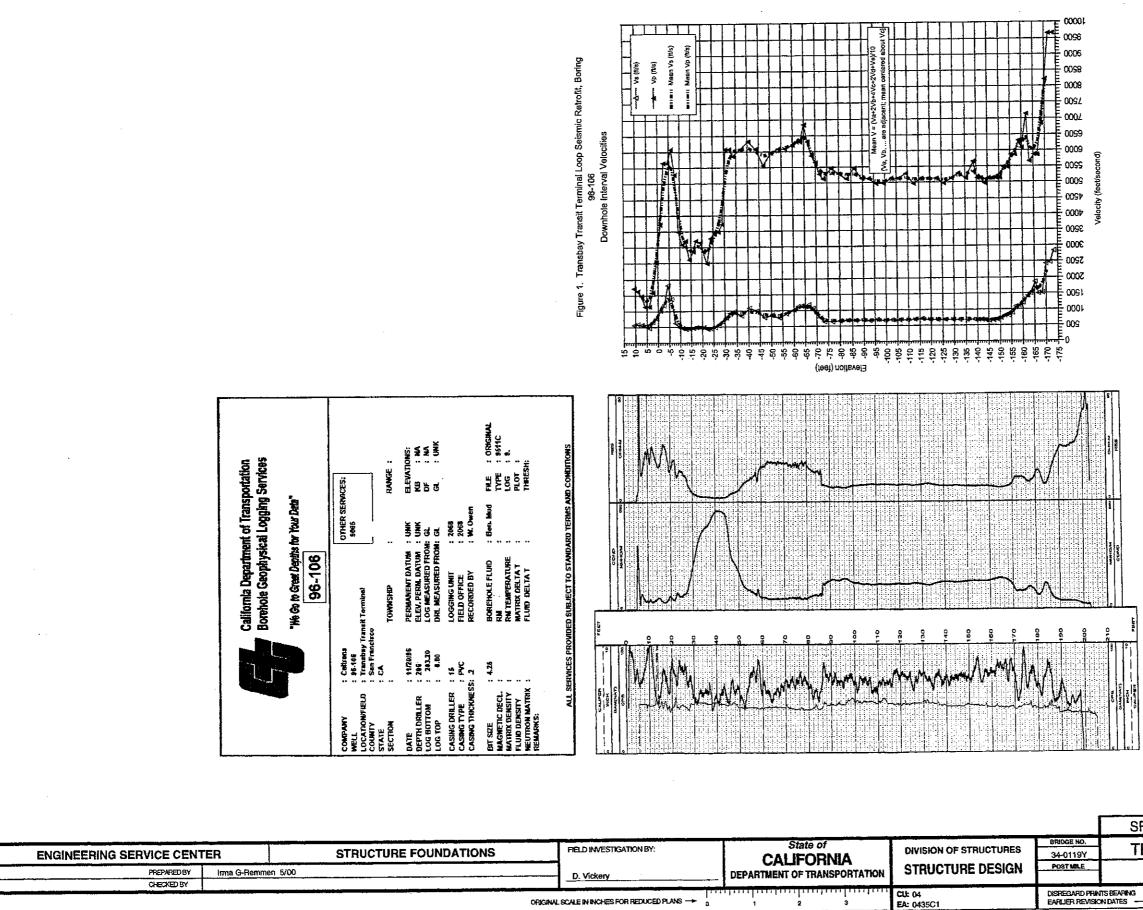
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	 	FOR	- 107 201 AC	with brick fragments (fill). With slight organic odor. With Increasing percentage (- 12 Mail ground SAMD (SW), very loose, moist to S.I.Y SAND (SM), very loose, dork billst groy, v	¹ Free States on TANK, modeling the rest dork in the COLONE STATES TANKS, Concernal of the States of the Open Health States of States of States of States.	a. w. z. 181		Poorly graded SAND with SiLT (SP-SM), very dense,	CLAYEY SAND (SC), 10058,	Fat CLAY (CH), very soft.	SANDY ORGANIC SILT (OH), SANDY SILT (ML), firm to qu=3.5 tsf surty sand (sw), medium c	Fat CLAY (CH), very stif ou-3.5 tif								CLAYEY SAND (SC), very dense, dark greenish gray. SiLTY to SANDY CLAY.	sanby siLTY CLAY (CH), hord, light greenish gray	
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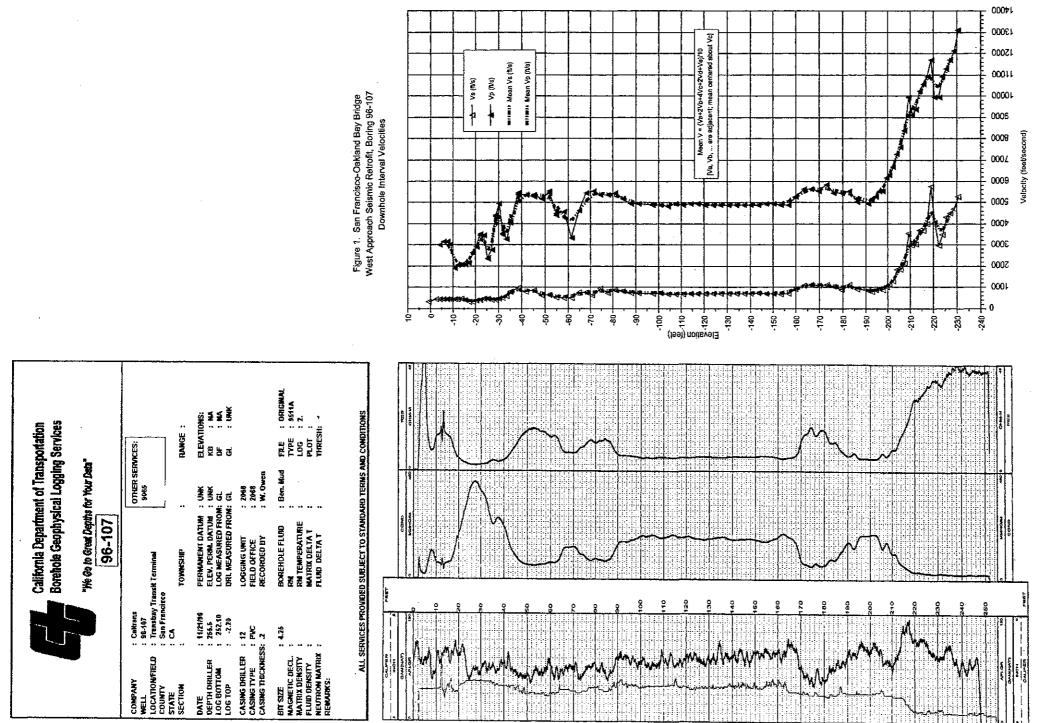
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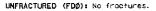


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			ILATINE,	RING DESCRIPTORS		Rectaligen	on, Engineering Geology Field Monual.	
			Diagn	nostic features				
ues	scriptors	Chemical weathering-(and/or oxida		Mechanical weothering- Grain boundary conditions (disaggregation) primarily	Texture an	d solutioning	General characteristics (strength.excovation.etc.) [§]	
lphonumeric descriptor	Descriptive term	Body of rock	Frocture surfaces I	for granitics and some coarse-grained sediments	Texture	Solutioning		
WI	Fresh	Na discoloration, not axidizea,	Na discolaration ar oxidation.	No separation, intact (tight).	No change.	אס solutioning.	Hammer rings when crystalline rocks are struck. Almost always rock excavation except for naturally weak or weakly cemented rocks such as siltstones or shales.	
W2	Slightly weathered to fresh?							
₩3	Slightly weathered	Discoloration or exidation is limited to surface of, or short distance from, fractures; some feldspor crystals are dult.	Minor to complete discoloration or oxidation of most surfaces.	No visible separatian, intact (tight).	Preserved.	Minor leaching of some soluble minerals may be noted.	Hammer rings when arystalline rocks are struck. Budy of rock not wakened. With few acceptions, such as siltstones or shales, classified as rock exception.	
₩4	Moderately to slightly weathered °							
₩5	Moderately weathered	Discoloration or axidation extends from fractures usually throughout: FerMg minerals are "rusty," feidspar crystals are "cloudy."	All fracture surfaces are discolored or exidices.	Partiai separation of boundaries visible,	Generally preserved.	Soluble minerals may be mostly leached,	Hammer does not ring when rock is struck. Body of rock is slightly weakened. Depending an fracturing, usually is rock excavation except in naturally weak rocks such as slitstanes or shales.	
₩6	Intensely to moderately weathered*			· · · · · · · · · · · · · · · · · · ·	-			
₩7	Intensely weathered	Discolaration or exidation throughout; all feldspars and fe-Wg minerals are altered to clay to some extent; or chemical alteration produces in-situ disaggregation, se grain boundary conditions.	Elli fracture serfacos are atsuschud er philides surrates frieble.	Partlai separation, rock is fribble: In semiarid conditions granitics are disaggregated.	Texture altered by chemical disintegro- tion (hy- dration, argil[ation].	Leaching of soluble minerals may be complete.	Duil sound when struck with hommer, usually can be braken with maderate to heavy manual pressure or by Hight hammer blow without reference to planes of weakness such as inclpient or hairline fractures, or weinists. Rock is significantly weakened, Usually common exacvation.	
WB	Very intensely wegthered							
₩9	Decomposed	Discolared or axidized throughout, but resistant minerals such as quartz may be unoltered; all feldspars and fe-Mg minerals are completely altered to clay.		Complete separation of grain boundaries (disaggregated).	complete remn structure may	be preserved: pluble minerals	Con be granulated by hond. Always common excavation. Resistant minerals such as quartz may be present as "stringers" or "dikes."	
conditions ° Combinations ore "in to two odjouted t Daes nato rock mose	or attention such as f ion descriptors are perm between" the diagnostic cent terms may be combin include directional wea s would not require the	hydrothermal effects, however ulssible where equal distribu- feature. However, dual aescr wed. "Decompased to slightik whering along shears or faul rock moss to be classified of	Life busie framewo Ner of build weather Grund fruud in he weathers, for image re and main associa sixeatheres.	ated features. For example, a	e to be used. ent over signif ntifiable zones re not acceptab smear zone tha	icant Intervals or can be delineated ie. t carried weatherin	entory rocks, particularly additional for particular site where characteristics present . When given as a range, only ng to great depths into a fresh ry to a large extent based an	
noturally	y weak materials or ceme	intation and type of excavation]
		FRACTURE DENSITY		United States Bureau of				
FRACTURE DI	ENSITY- Based on the so			ring Geology Field Manual.	· · · · · · · · · · · · · · · · · · ·			
disturbed 7	zones (fracturing outs)	acing of <u>all natura</u>) fract. achanical breaks, shears, and de the shear) are included.	· · · · · · · · · · · · · · · ·	TOCTURE GENELTY I	<u> </u>		ROCK HARDNESS DESC	RIPT
		as tunne) walls, dozer tre- preholes. Descriptive criter measured along the core as				anumeric Desc criptor Desc	riptor	Criter



VERY SLIGHTLY FRACTURED (FDI): Core recovered mostly in tenetry ground from 2 fr.

SLIGHTLY TO VERY SLIGHTLY FRACTURED (FD2) *

SLIGHTLY FRACTURED (FD3): Core recovered mostly in lenging from the sectored lengths less than 1 ft or greater than 3 ft.

MODERATELY TO SLIGHTLY FRACTURED (FD4) .

MODERATELY FRACTURED (FDS): Core recovered mostly in 0.1 to the transmission most lengths about 0.6 ft.

INTENSELY TO MODERATELY FRACTURED (FD6) *

INTENSELY FRACTURED (FD7): Lengths overage from 0.1 to 0.5 fr with scattered fragmented intervals. Core recovered mostly in lengths less than 0.3 ft.

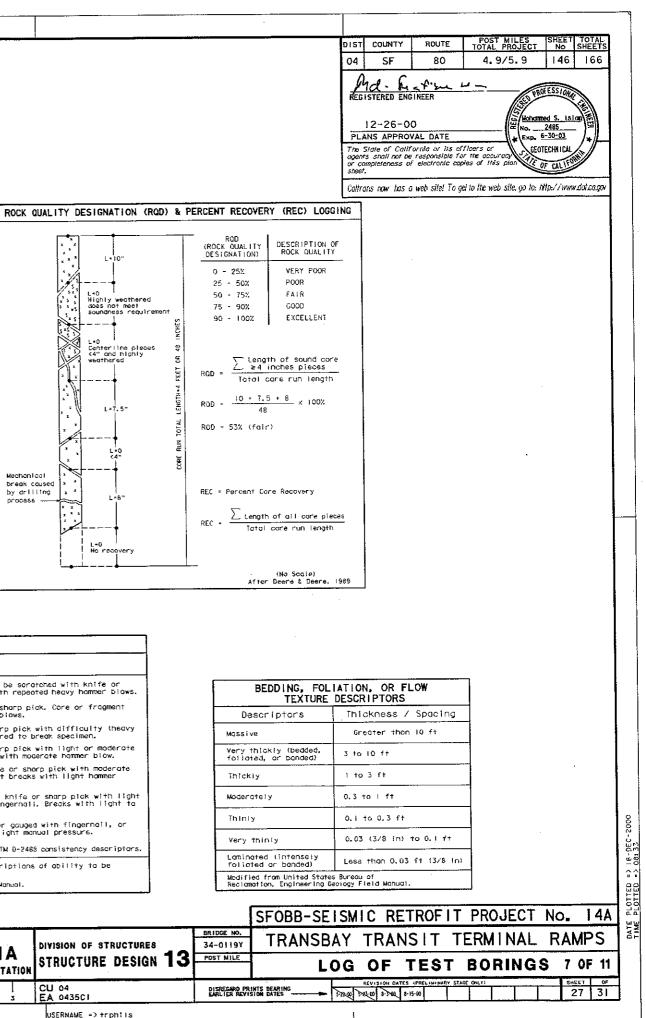
VERY INTENSELY TO INTENSELY FRACTURED (FD8) .

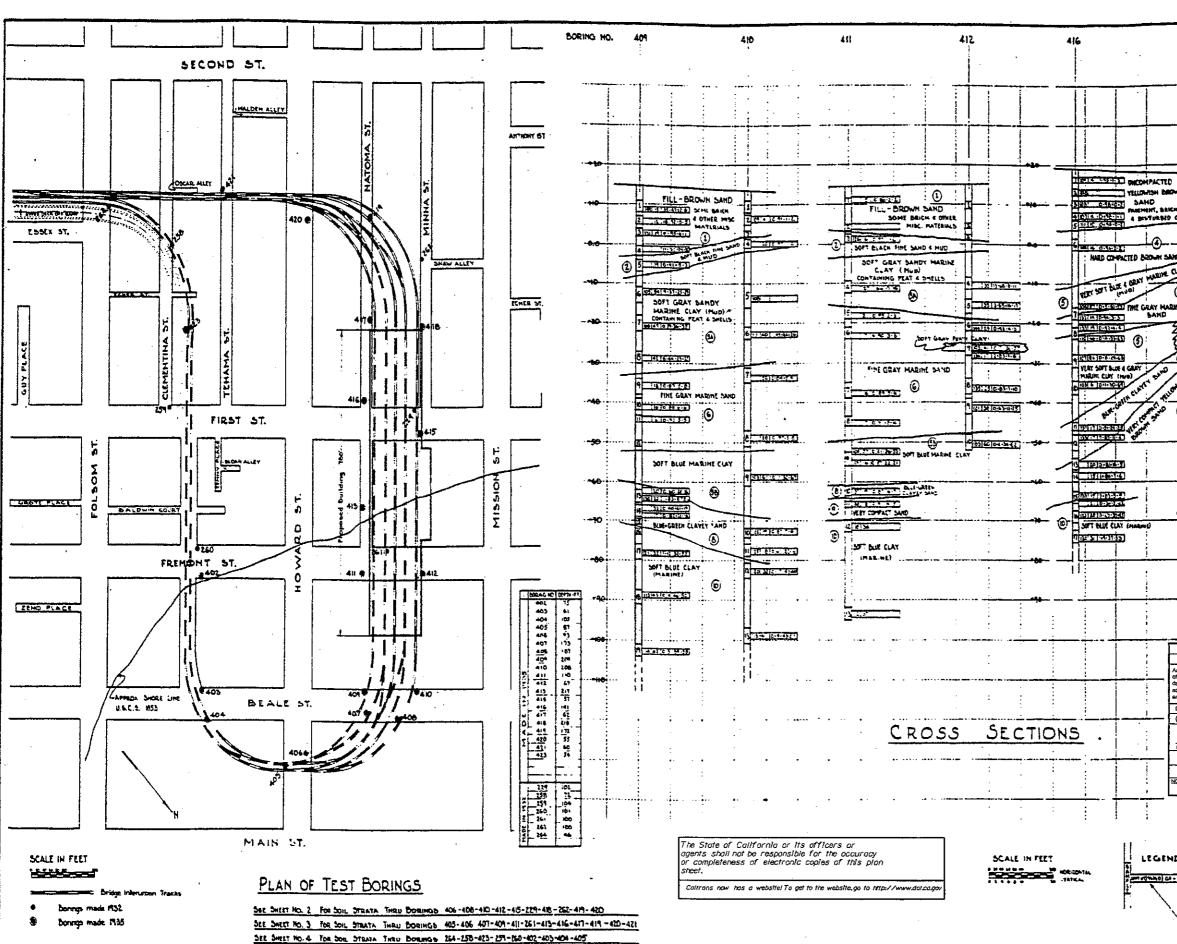
VERY INTENSELY FRACTURED (F09): Core recovered mastly as onlys and incomments with a few scattered short core lengths.

* Combinations of fracture densities (e.g. Very Intensely to Intensely fractured, or Moderately to Slightly fractured) are used where equal distribution of both fracture density characteristics ore present over a significant interval or exposure, or where characteristics are "in between" the descriptor definitions.

Iphanumeric Descriptor	Descriptor	Criterio
н	Extremely hord	Core, fragment, or exposure cannot be soratched with knife or sharp pick; can only be chipped with repeated heavy hammer blaws.
H2	Very hard	Cannot be scratched with knife on sharp pick. Core or fragment breaks with repeated heavy hammer blows.
нз	Hard	Can be scratched with knife or sharp pick with difficulty (heavy pressure). Heavy hammer blaw required to break specimen.
H4	Moderately hard	Can be scratched with knife or sharp pick with light or moderate pressure, Core or fragment breaks with moderate hammer blow.
н5	Moderately soft	Can be grooved ½ inch deep by knife or sharp pick with moderate or heavy pressure. Core or fragment breaks with light hommer blow or heavy monuci pressure.
H6	Soft	Can be grooved or gouged easily by knife or sharp pick with light pressure, can be scratched with fingernali. Breaks with light to moderate manual pressure.
Н7	Very soft	Can be readily indented, grooved or gouged with fingernall, or carved with a knife. Breaks with light manual pressure.
Any bedrock uni	t softer than H7, v	very saft, is to be described using ASTN 0-2488 consistency descriptors.
Note: Althoug	n "sharp pick" is paved ar gouged by	included in these definitions, descriptions of ability to be a knife is the preferred criteria.
• •	-	f Reclamation. Engineering Geology Field Manual.

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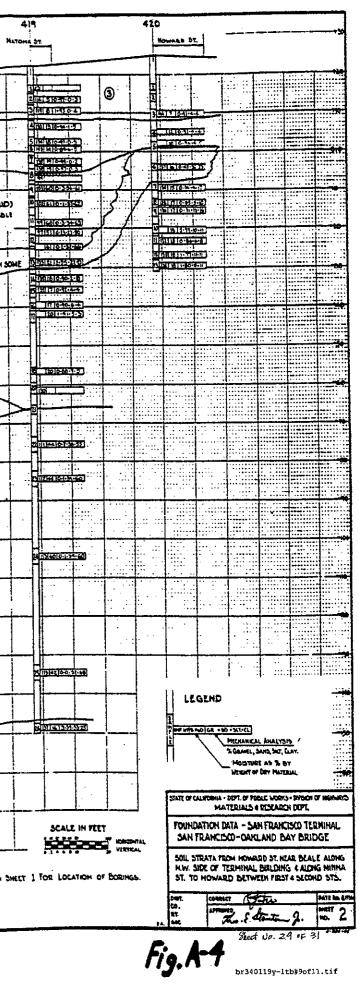


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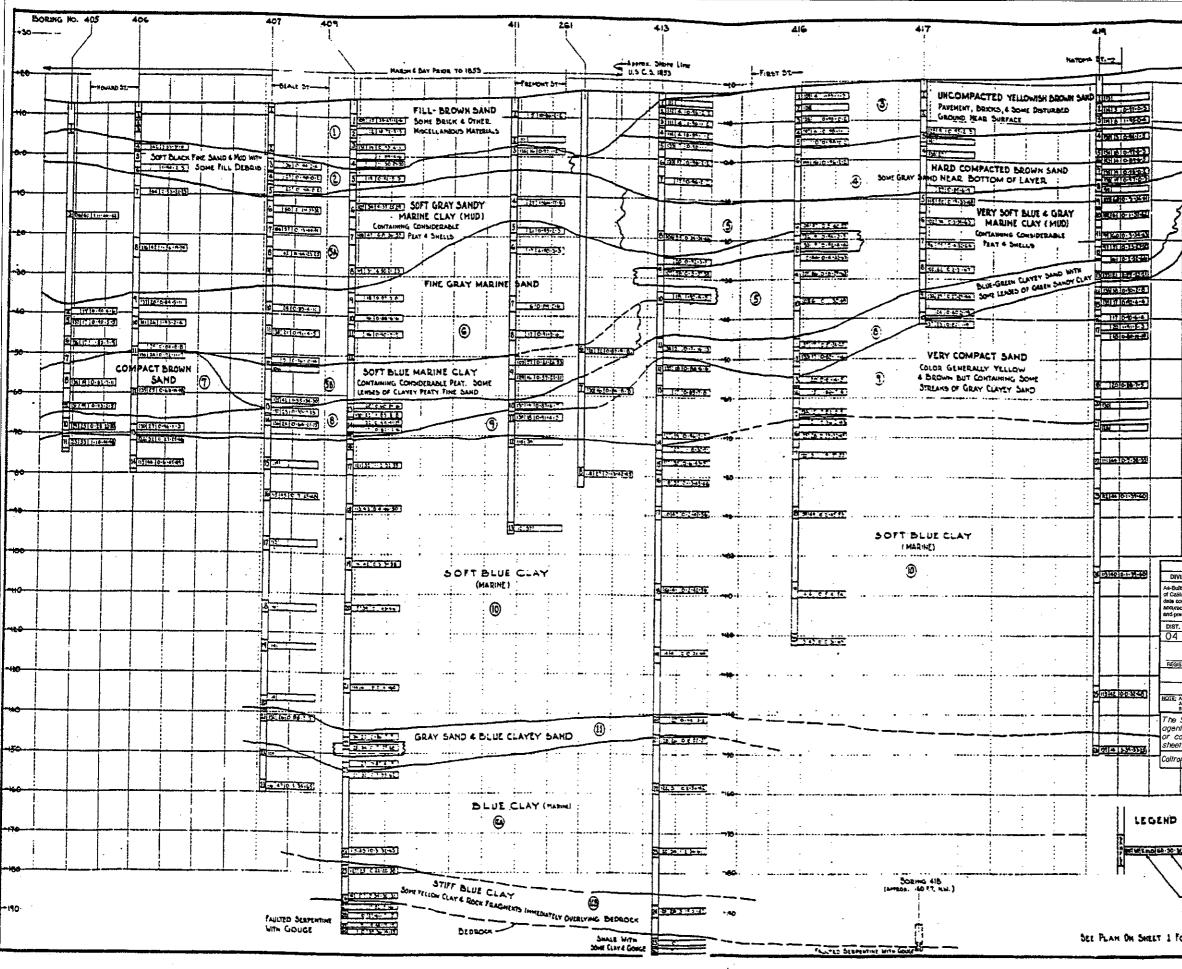
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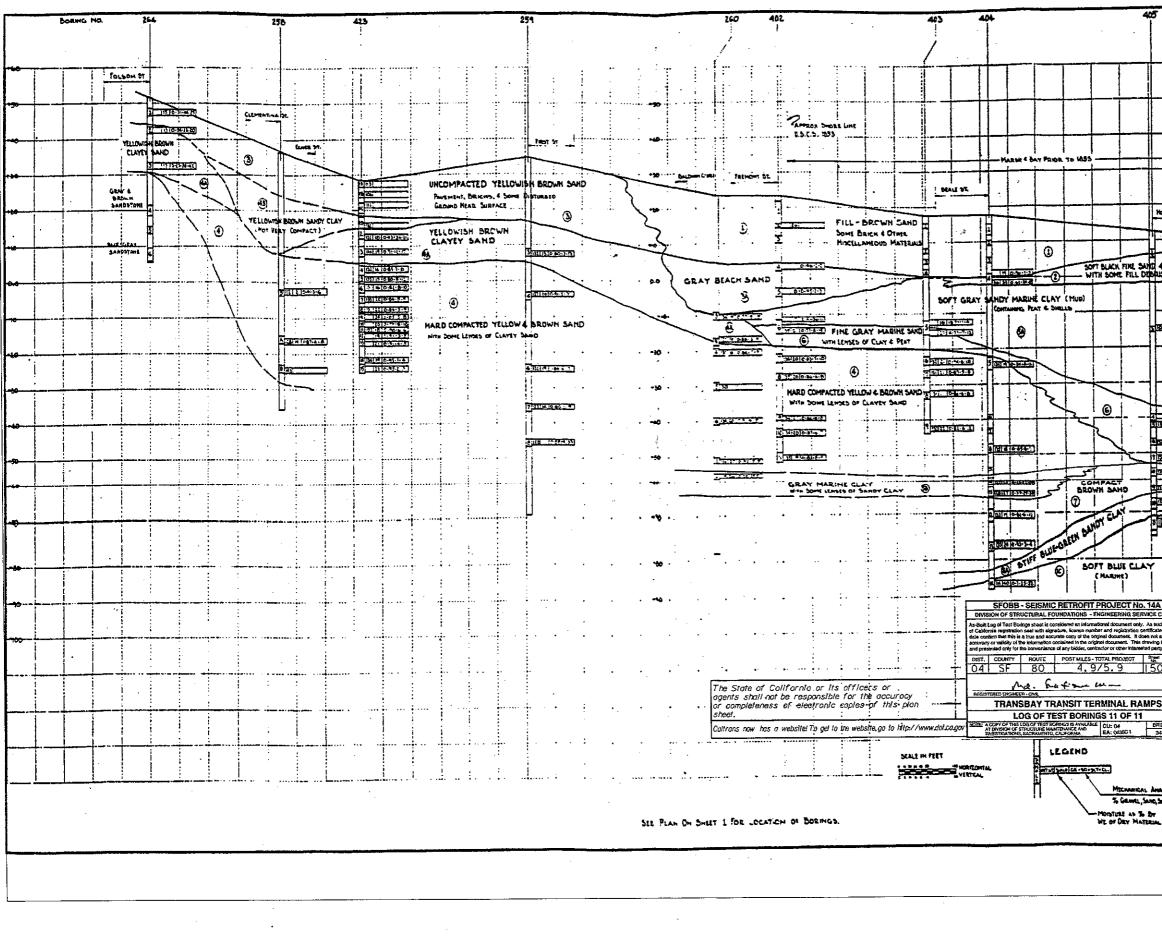
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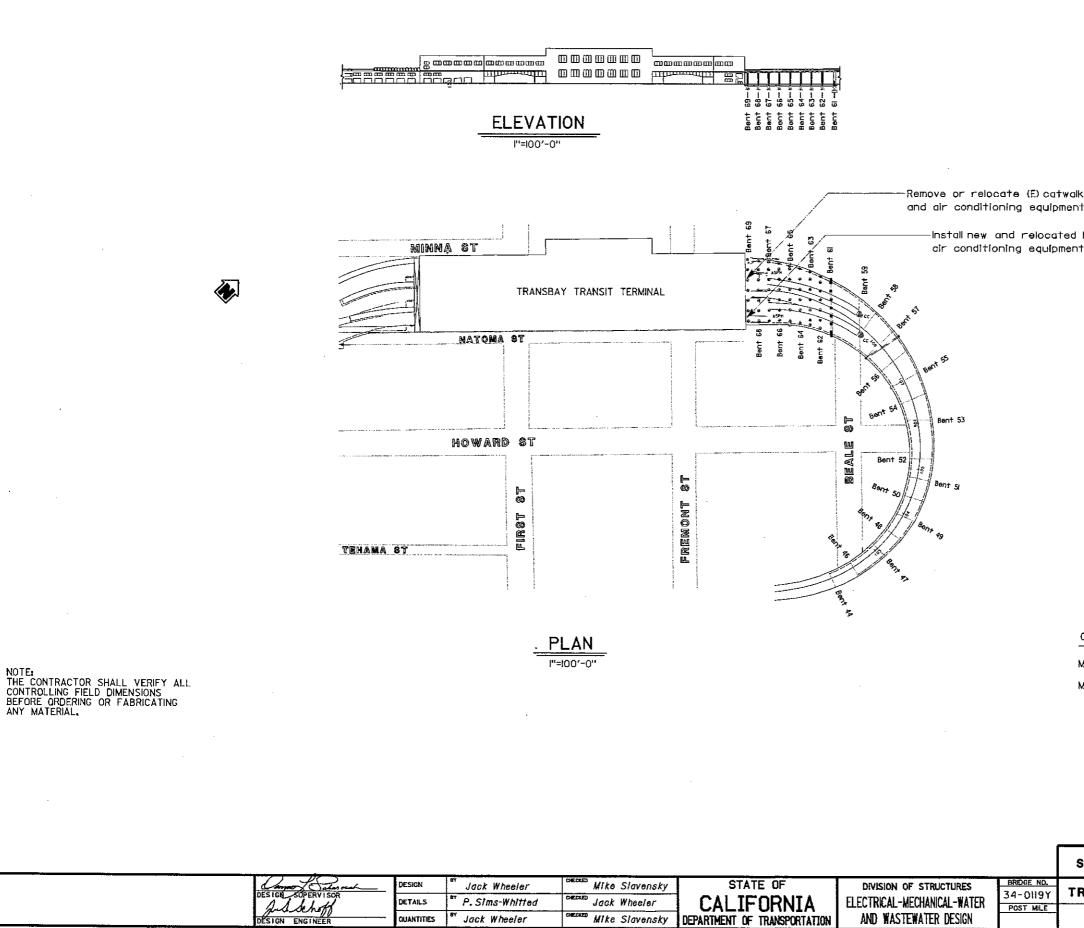
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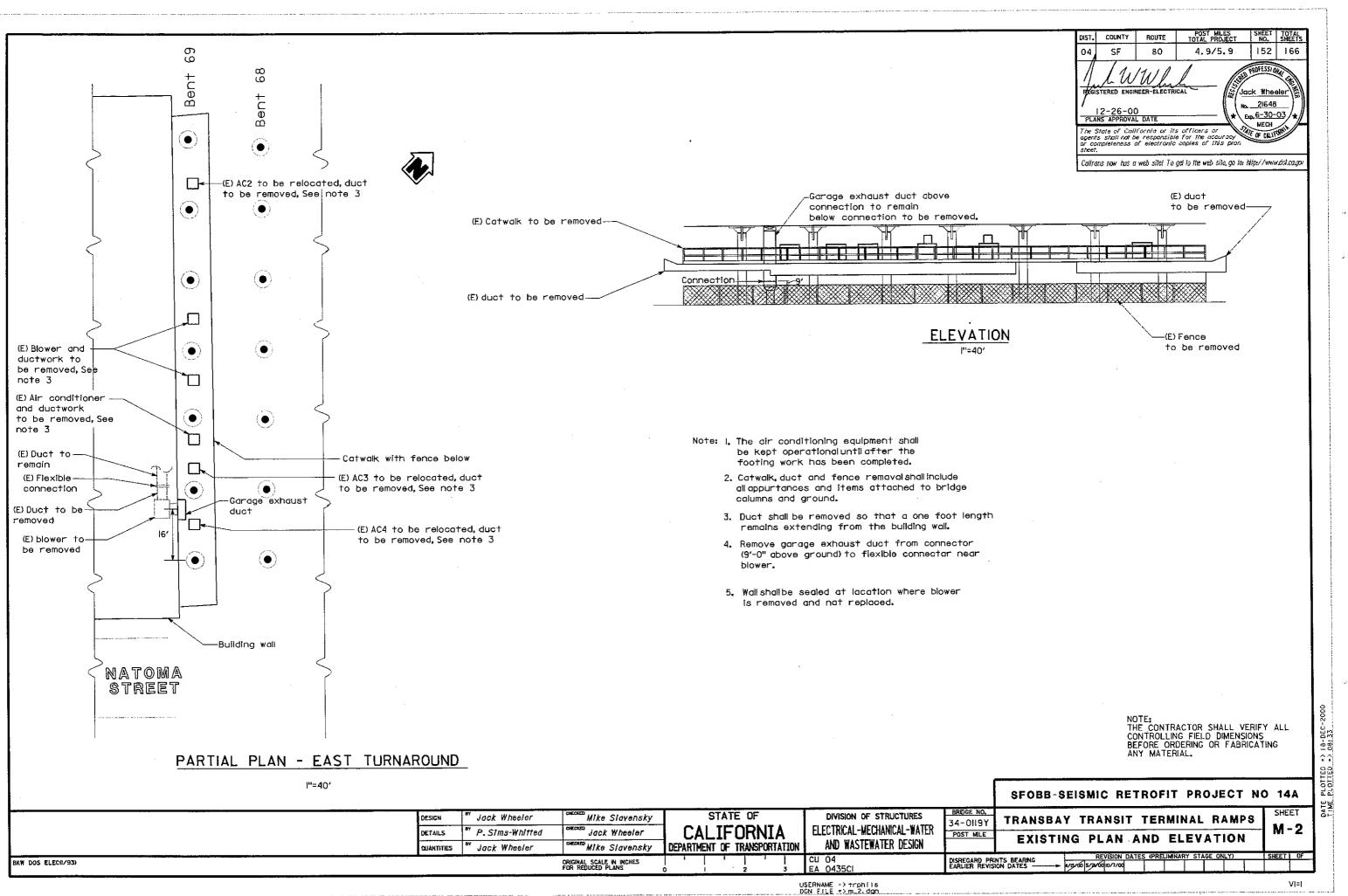
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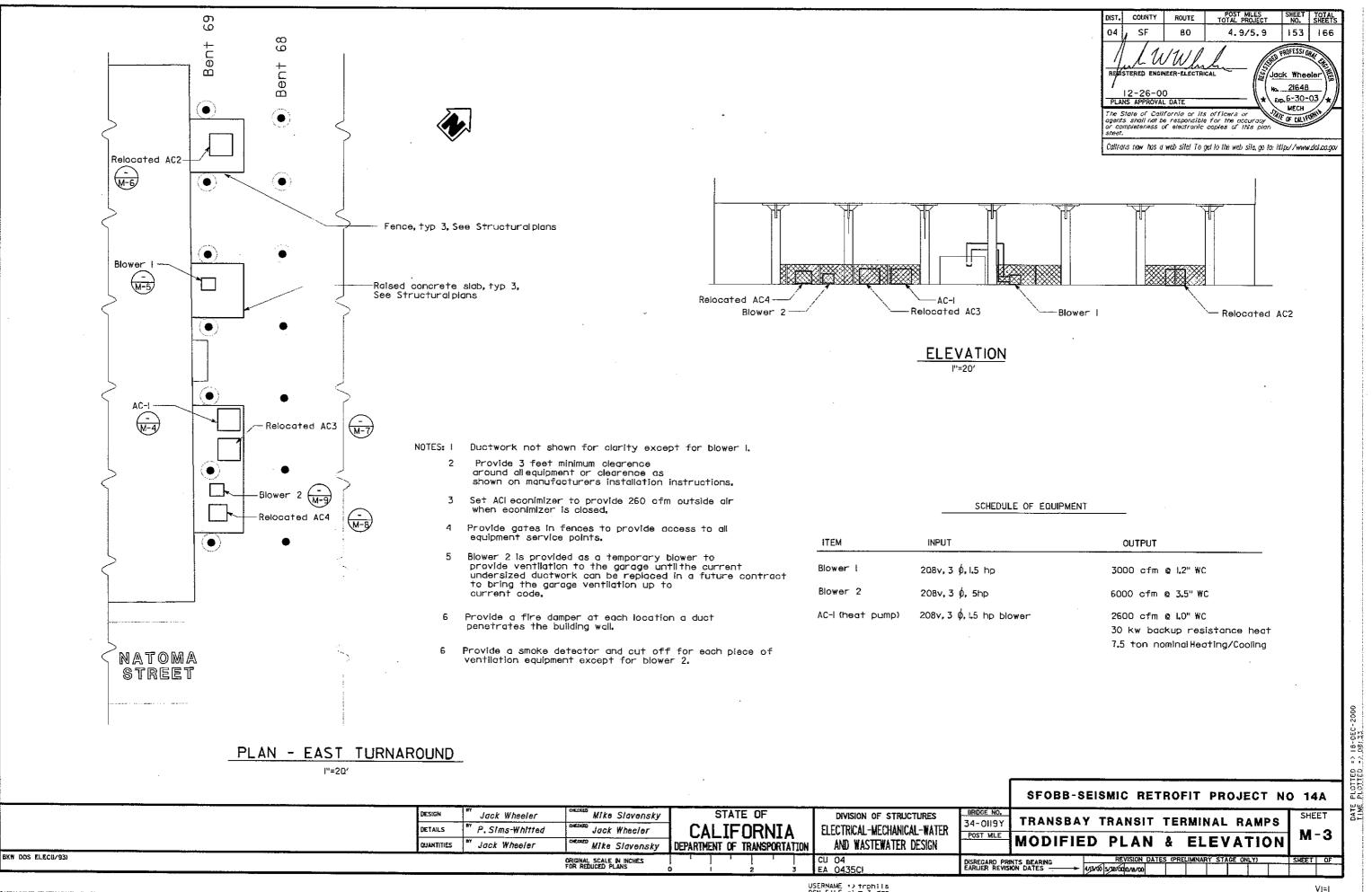
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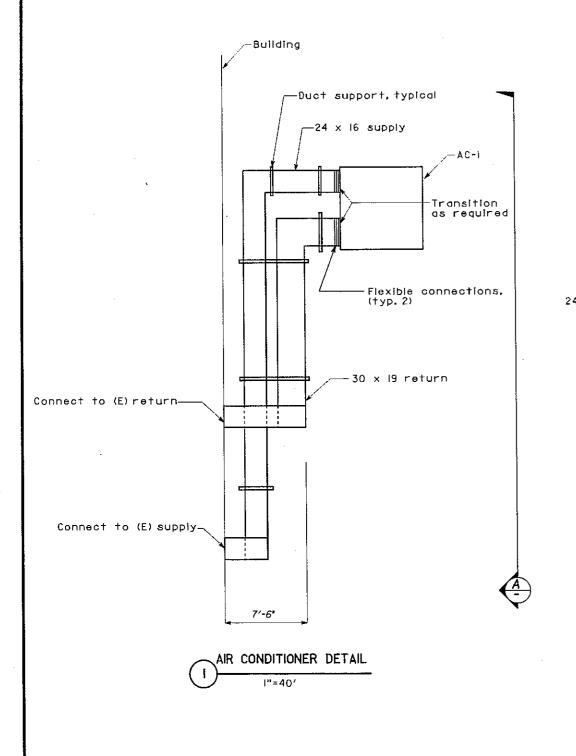
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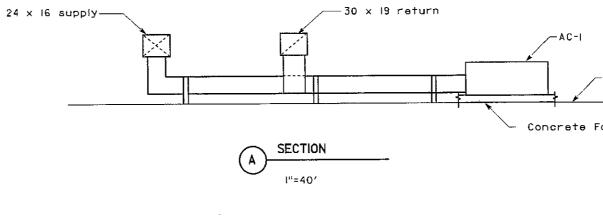
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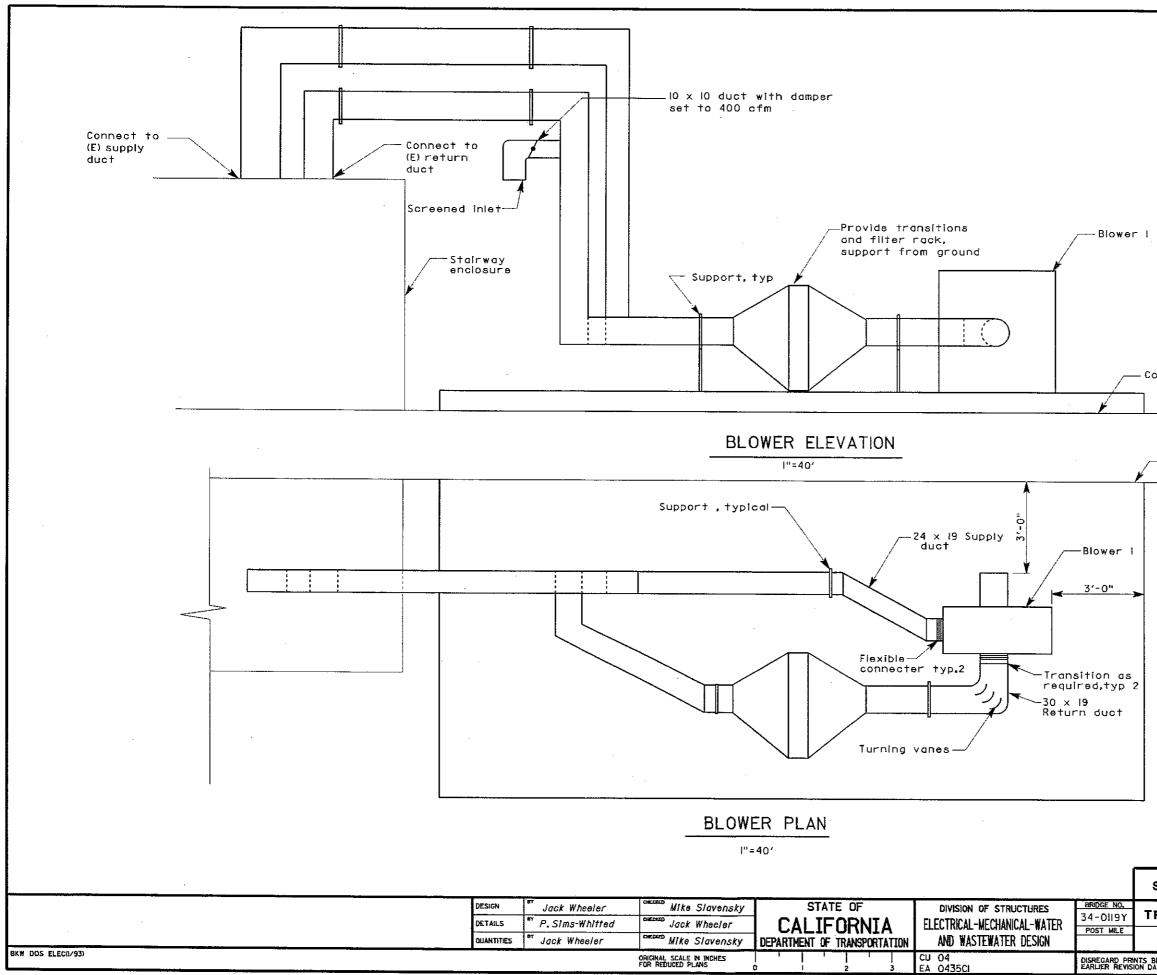


Notes:

- Provide fittings and transition as required to connect to (E) wall openings.
- 2. Install AC-Lon foundation with vibration isolators and concrete expansion anchor bolts.
- Exact duct routing to be determined in the field based on existing building and air conditioning equipment conditions.

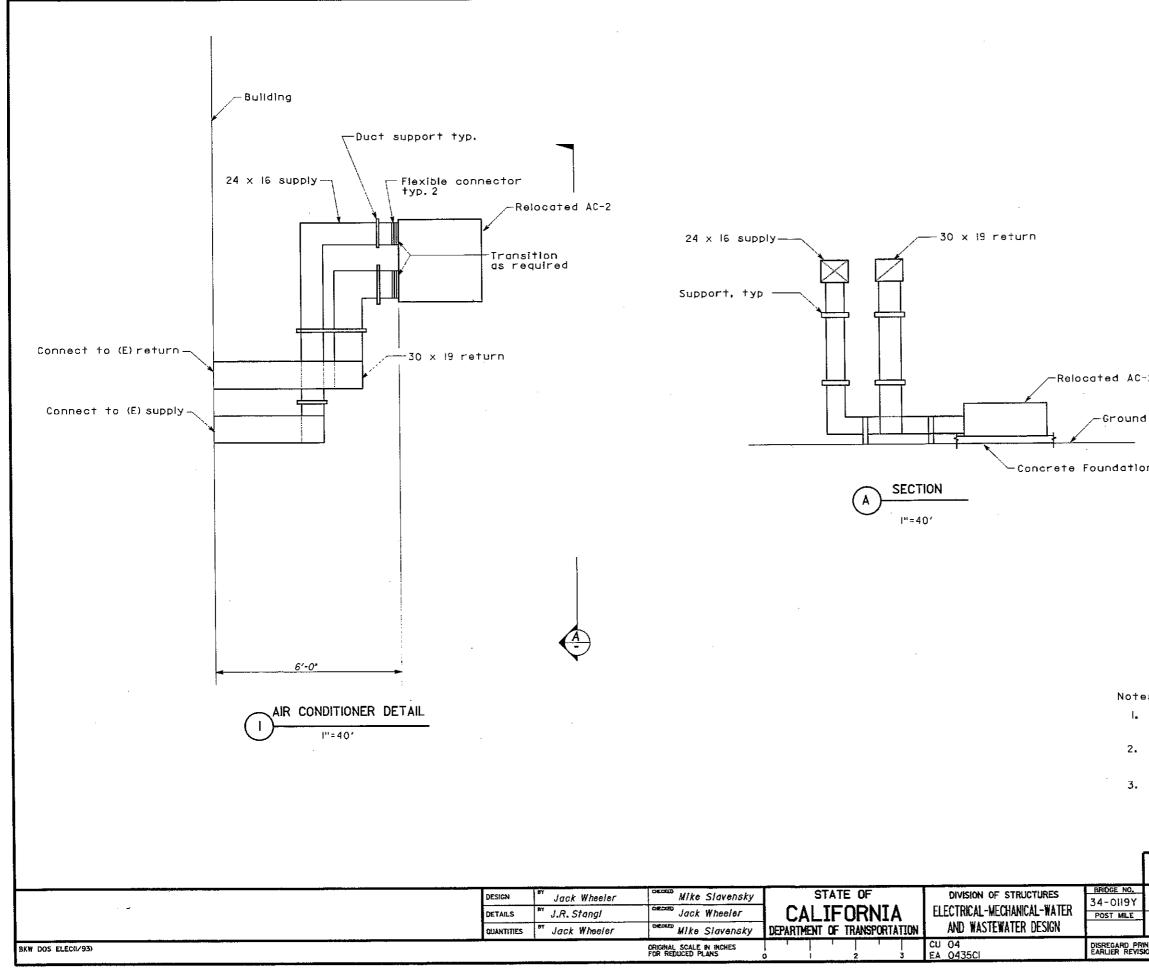
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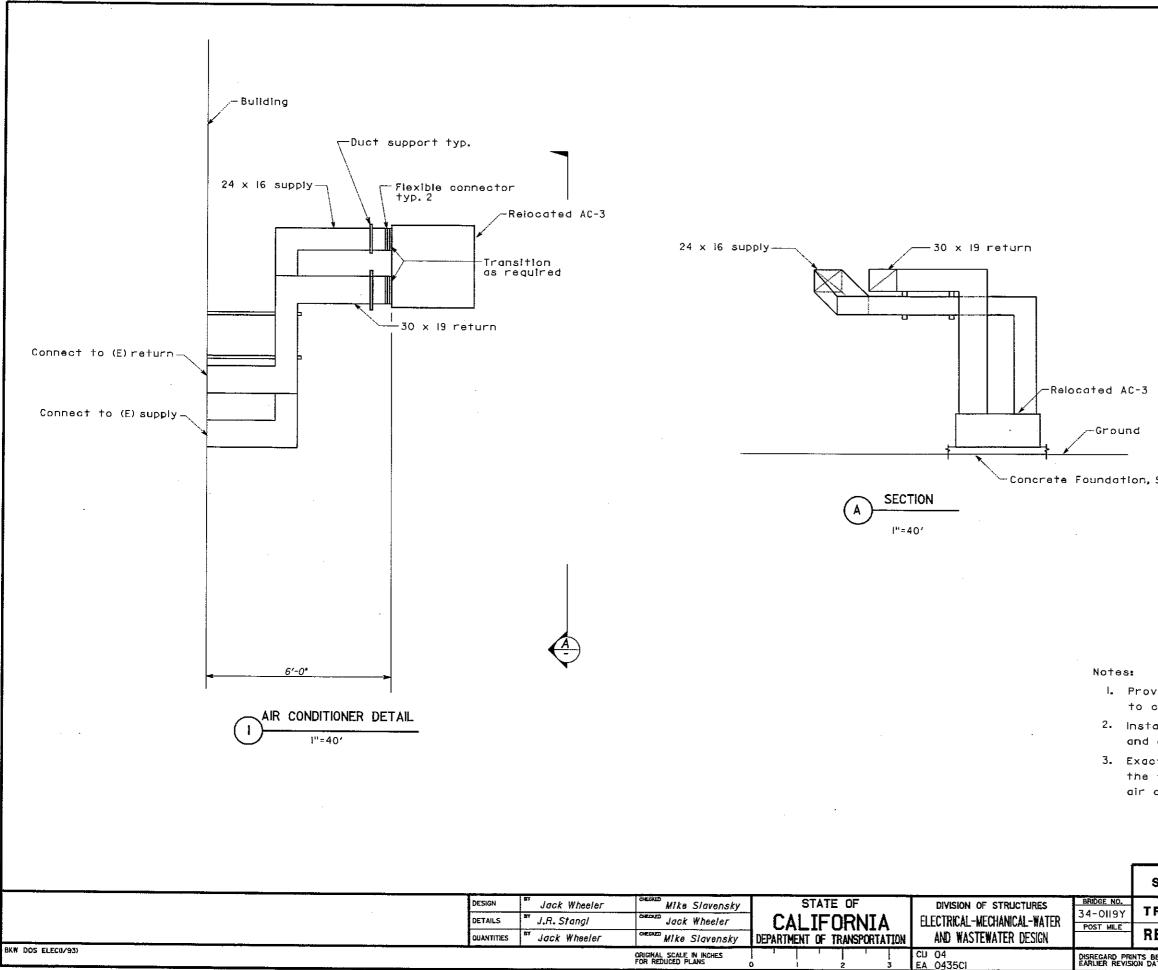
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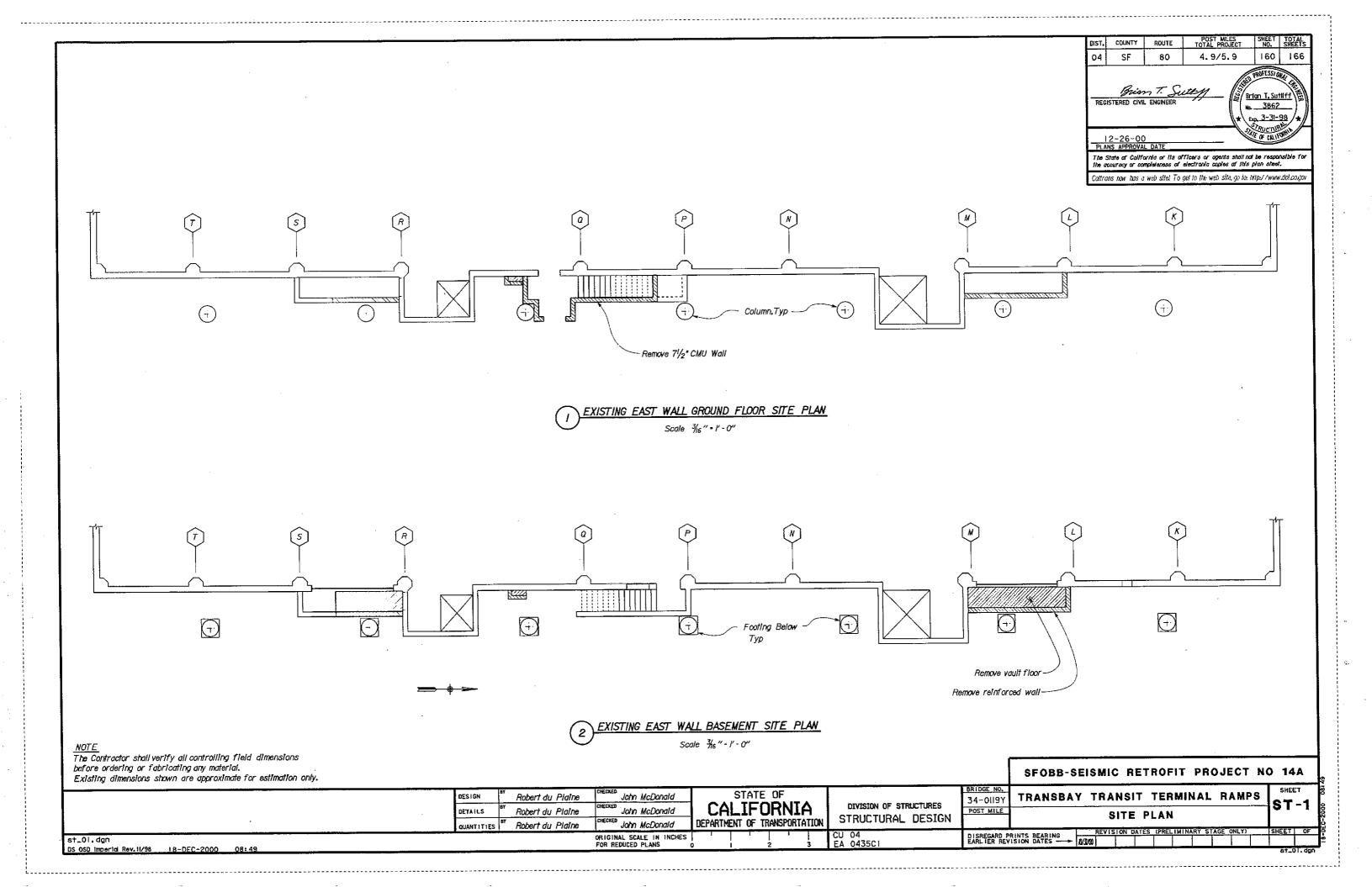
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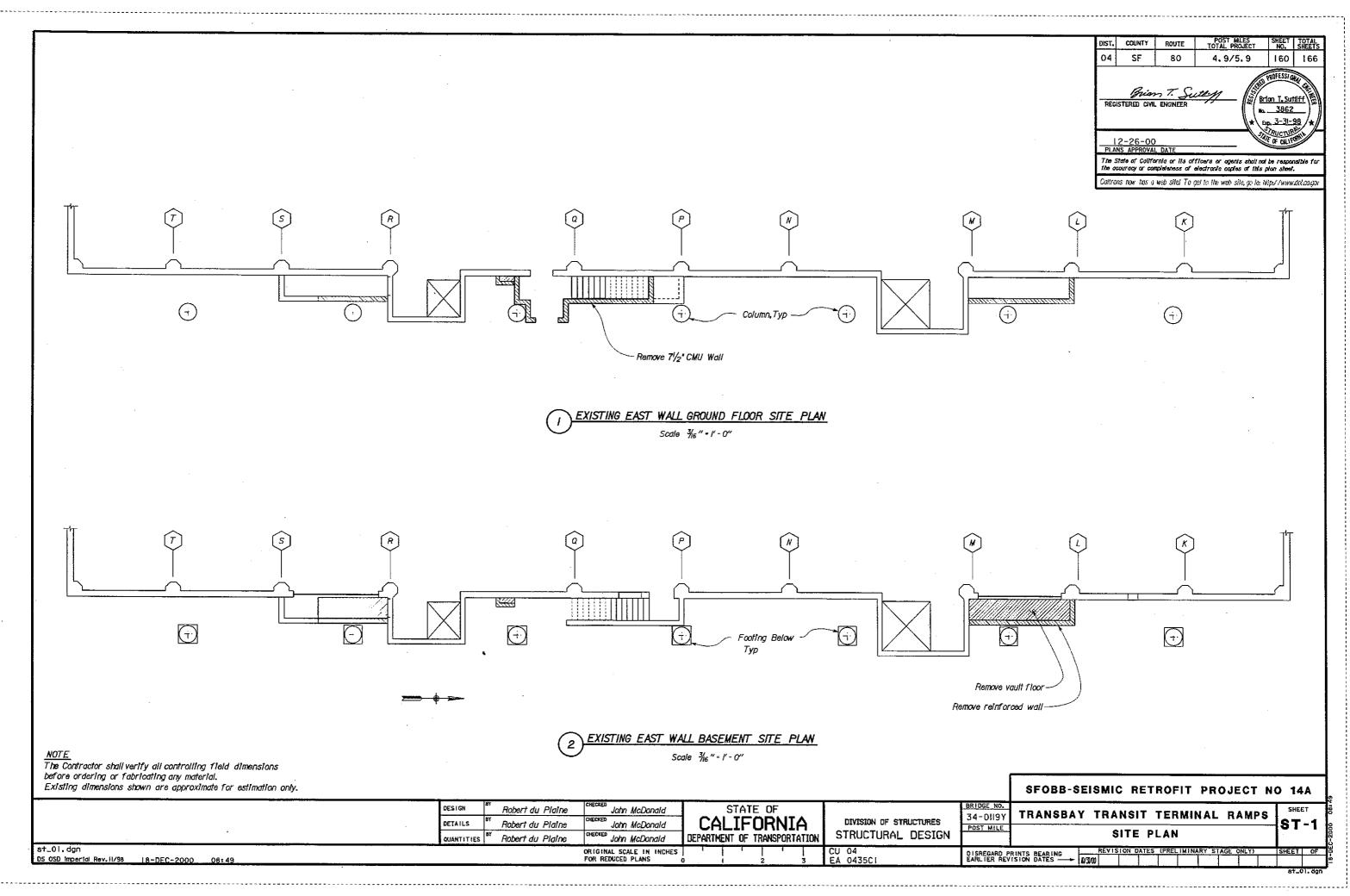
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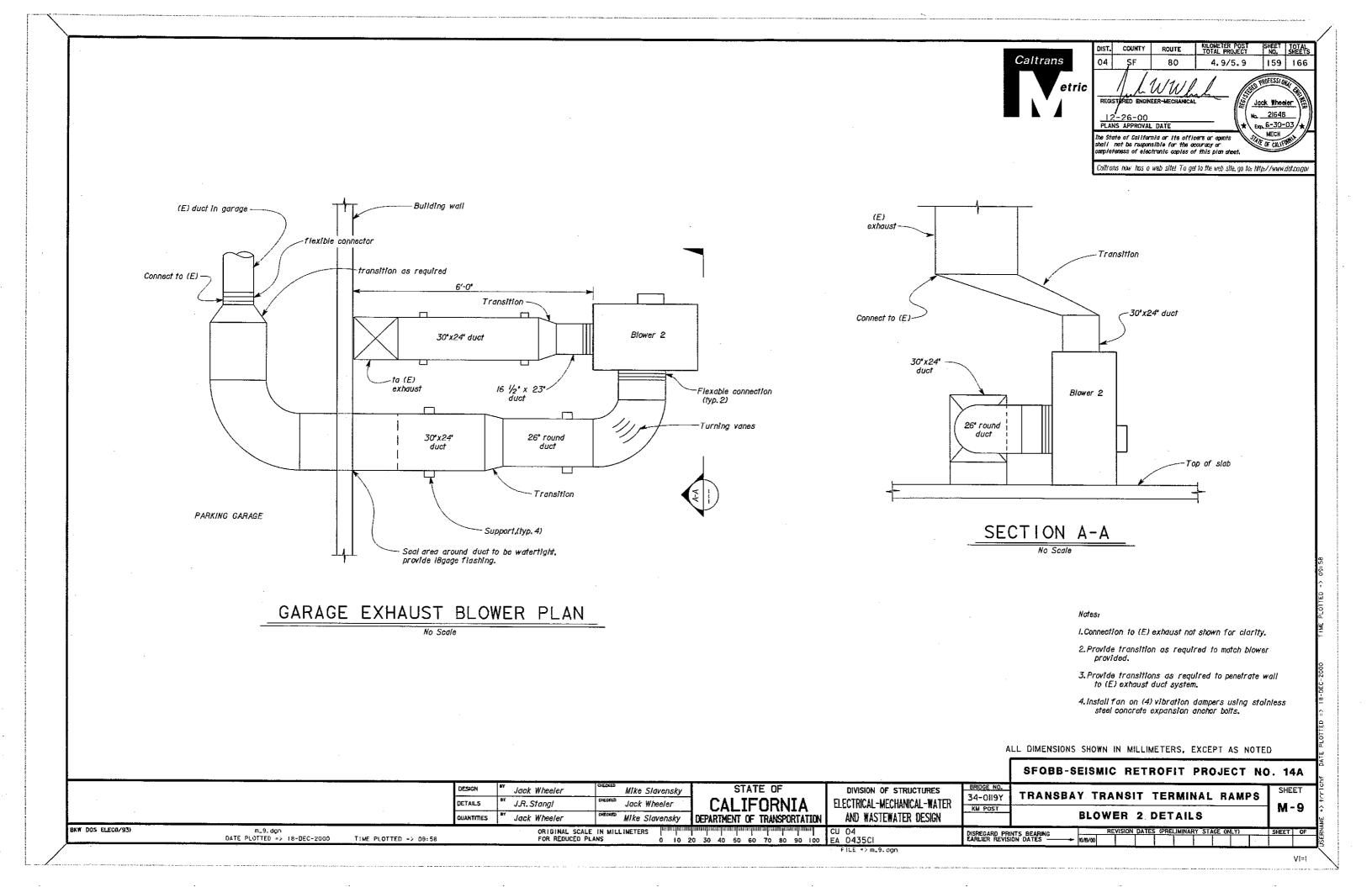


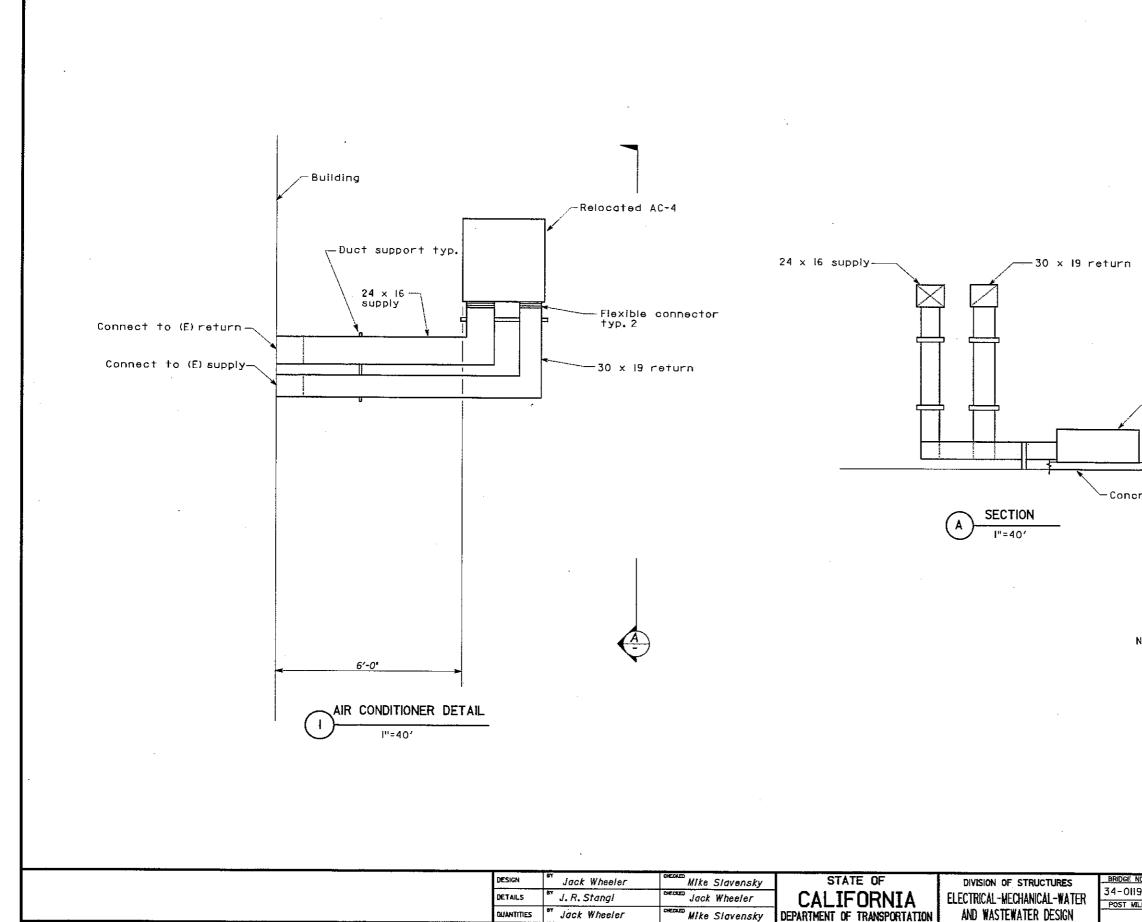
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-Relocated AC-4

Ground

-Concrete Foundation, See Structural sheets

Notes:

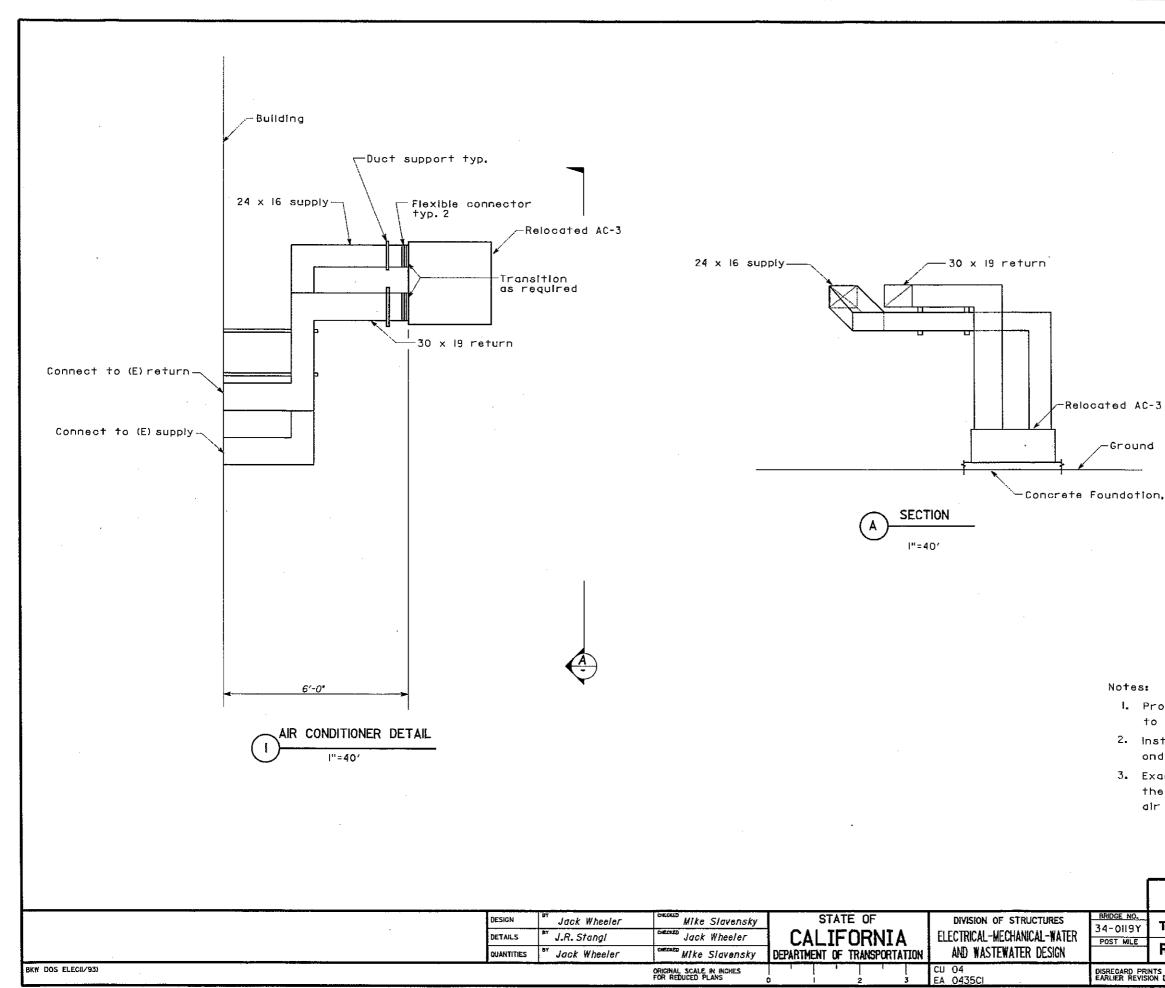
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- Provide fittings and transition as required to connect to (E) wall openings,
- Install AC-4 with vibratian isolators and concrete expansion anchor boits.
- Exact duct rauting to be determined in the field based on existing building and air conditioning equipment conditions.

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-Concrete Foundotion, See Structurol sheets

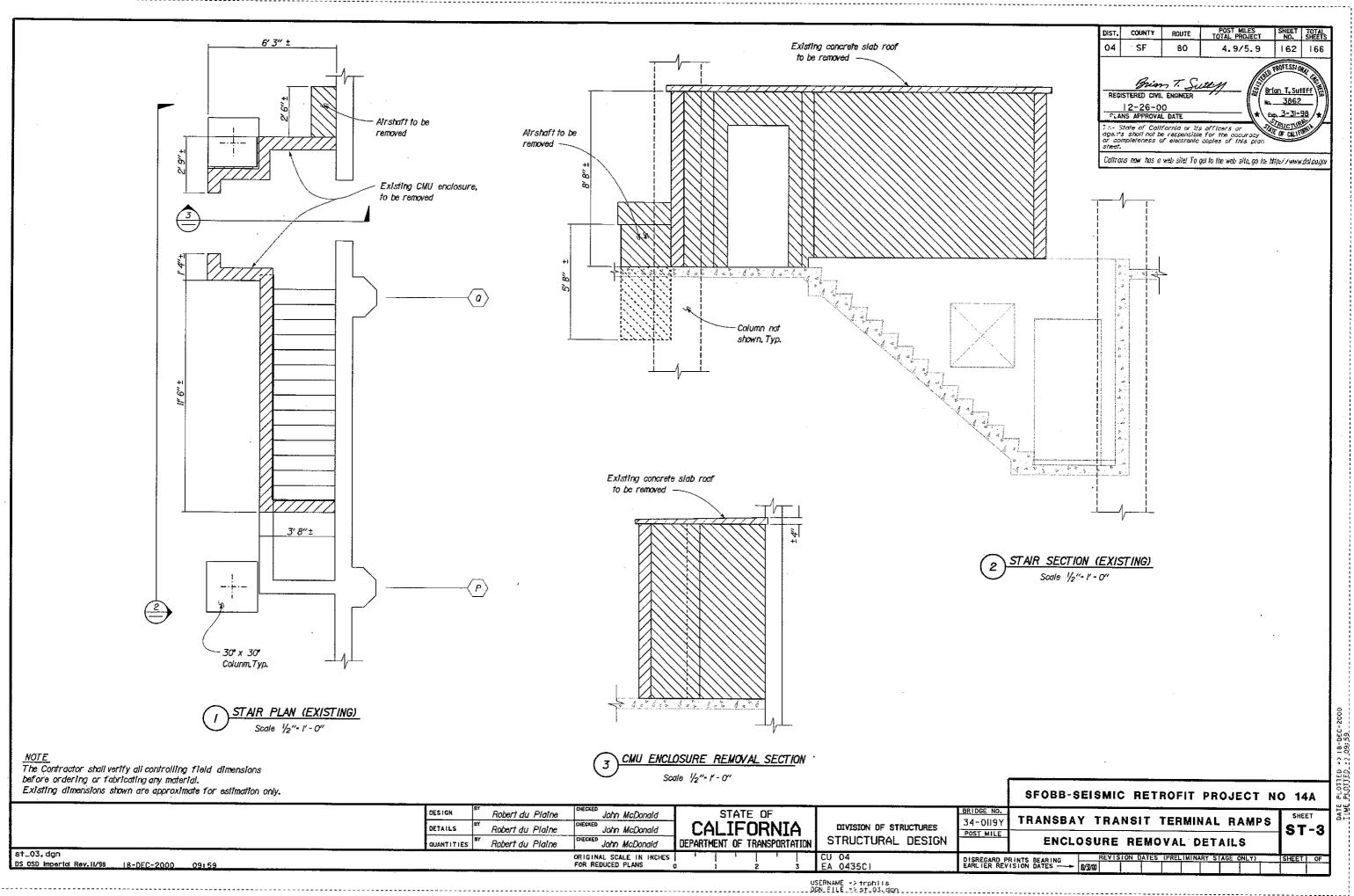
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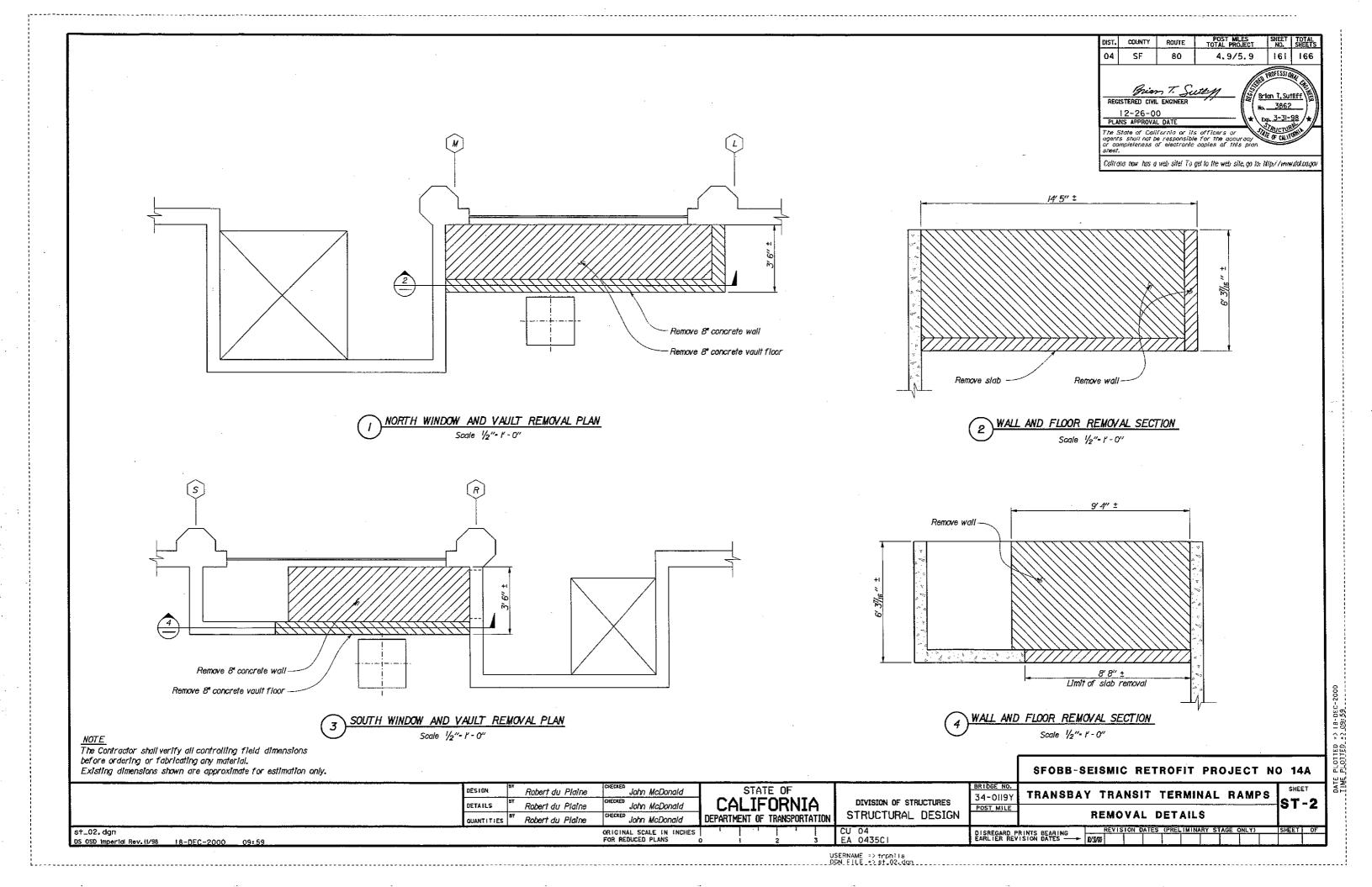
2. Install AC-3 with vibration isolators ond concrete expansion anchor bolts.

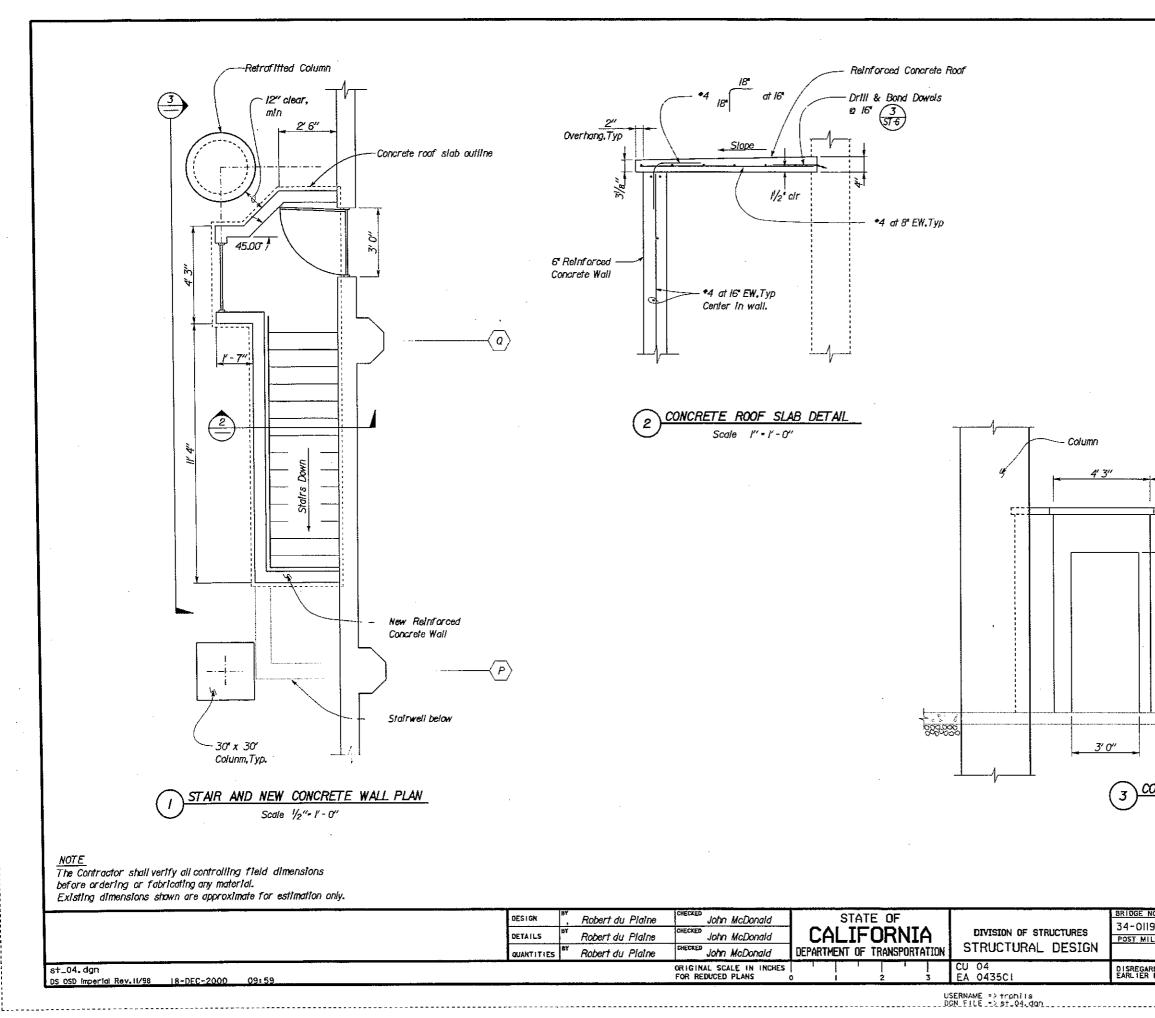
3. Exact duct routing to be determined in the field based on existing building and air conditioning equipment conditions.

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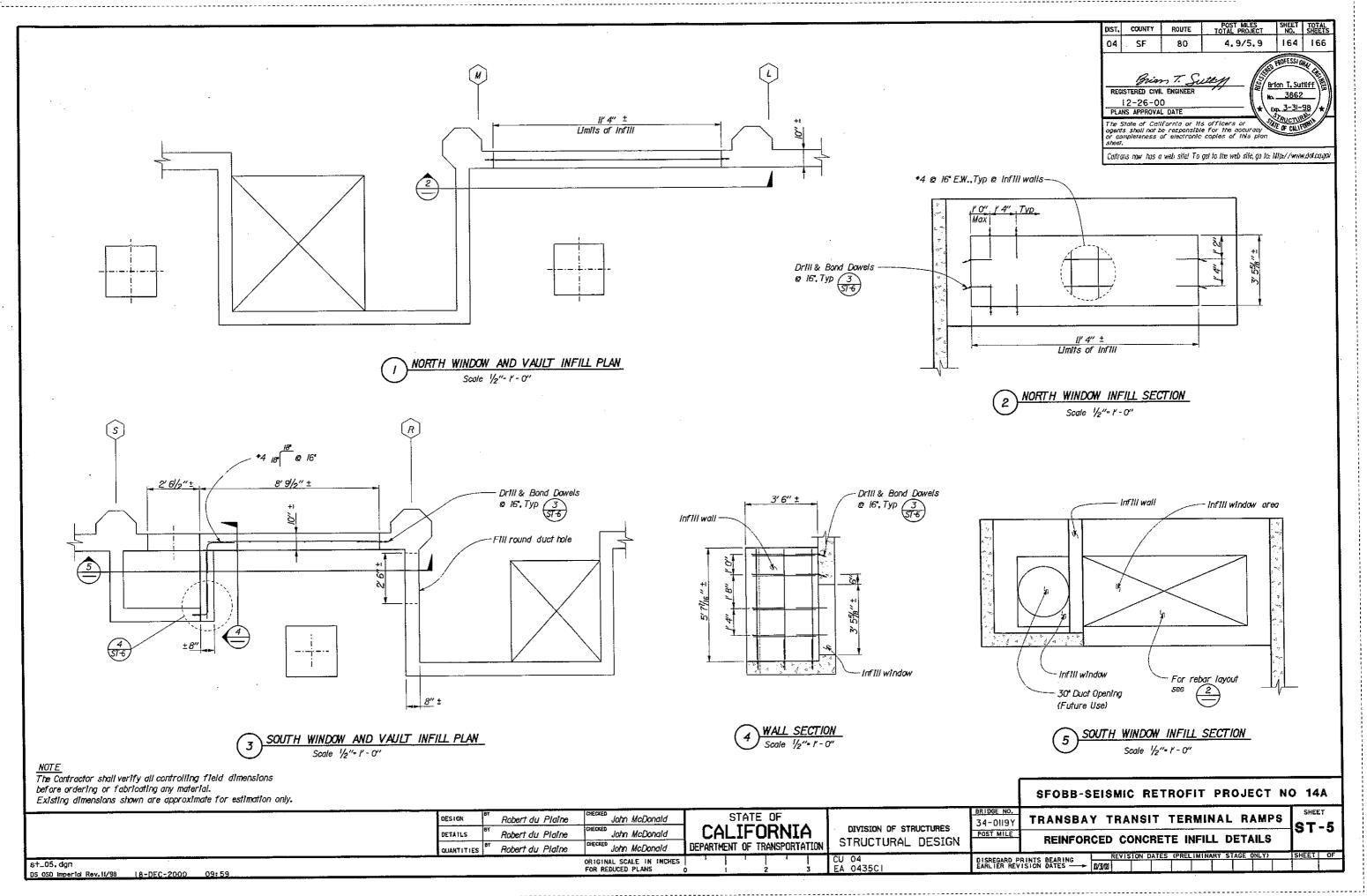
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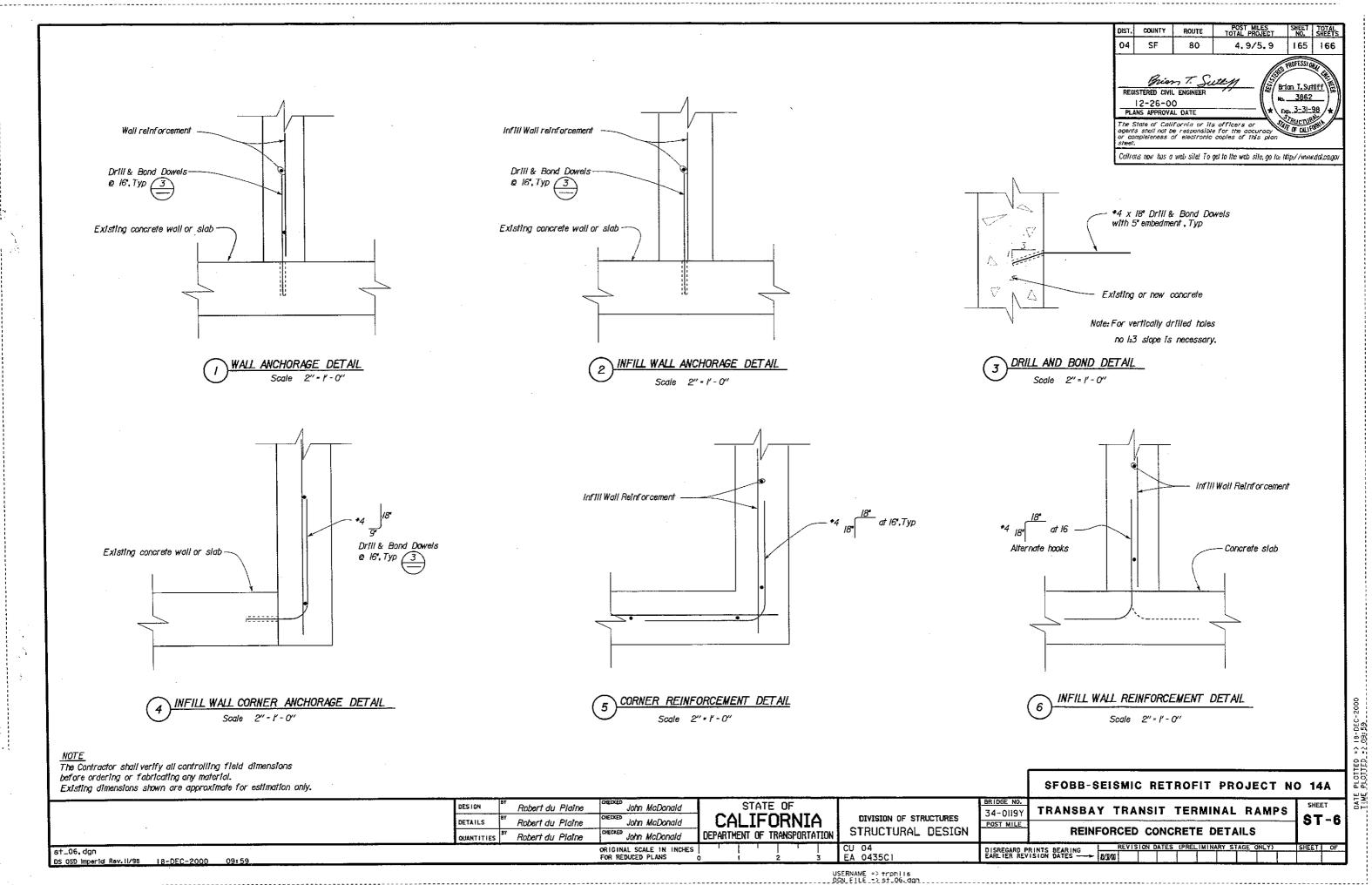


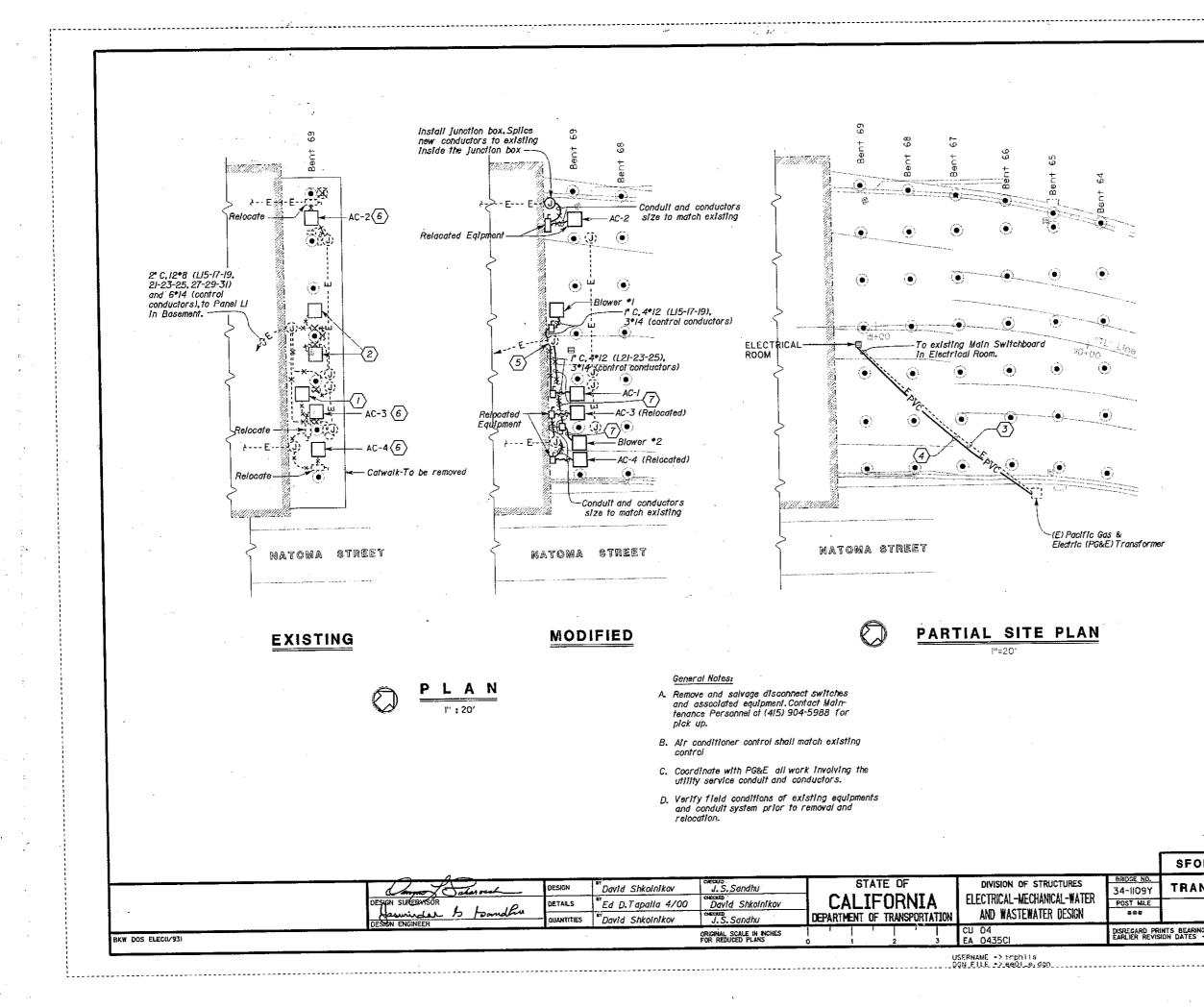




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