

# PLANS FOR CONSTRUCTION

## RIVERDALE PEDESTRIAN IMPROVEMENTS VARIOUS LOCATIONS IN RIVERDALE FEDERAL PROJECT NO. ATPL 5943 (256)

### INDEX OF SHEETS

#### GENERAL:

- 1 TITLE PAGE
- 2 LEGEND
- 3 TYPICAL SECTIONS

#### SIDEWALK CONSTRUCTION PLANS:

- 4 PLAN: FELAND AVE - STA 14+62 - 20+05
- 5 PLAN & PROFILE: FELAND AVE - STA 22+90 - 25+70
- 6 PLAN & PROFILE: FELAND AVE - STA 25+70 - 28+50
- 7 PLAN & PROFILE: FELAND AVE - STA 28+50 - 31+30
- 8 PLAN & PROFILE: HAZEL AVE - STA 12+10 - 14+90
- 9 PLAN & PROFILE: HAZEL AVE - STA 14+90 - 17+60

#### PEDESTRIAN BRIDGE PLANS:

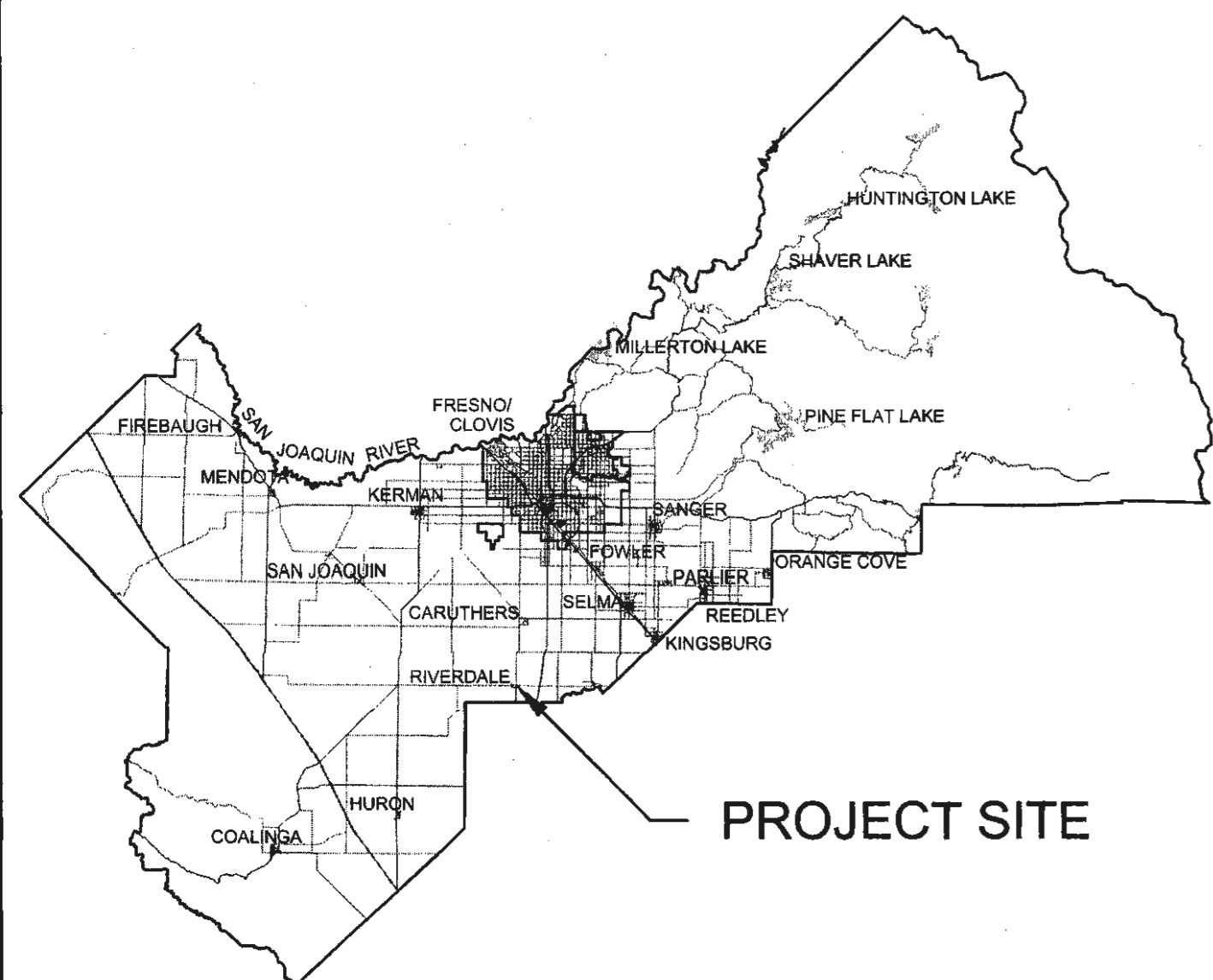
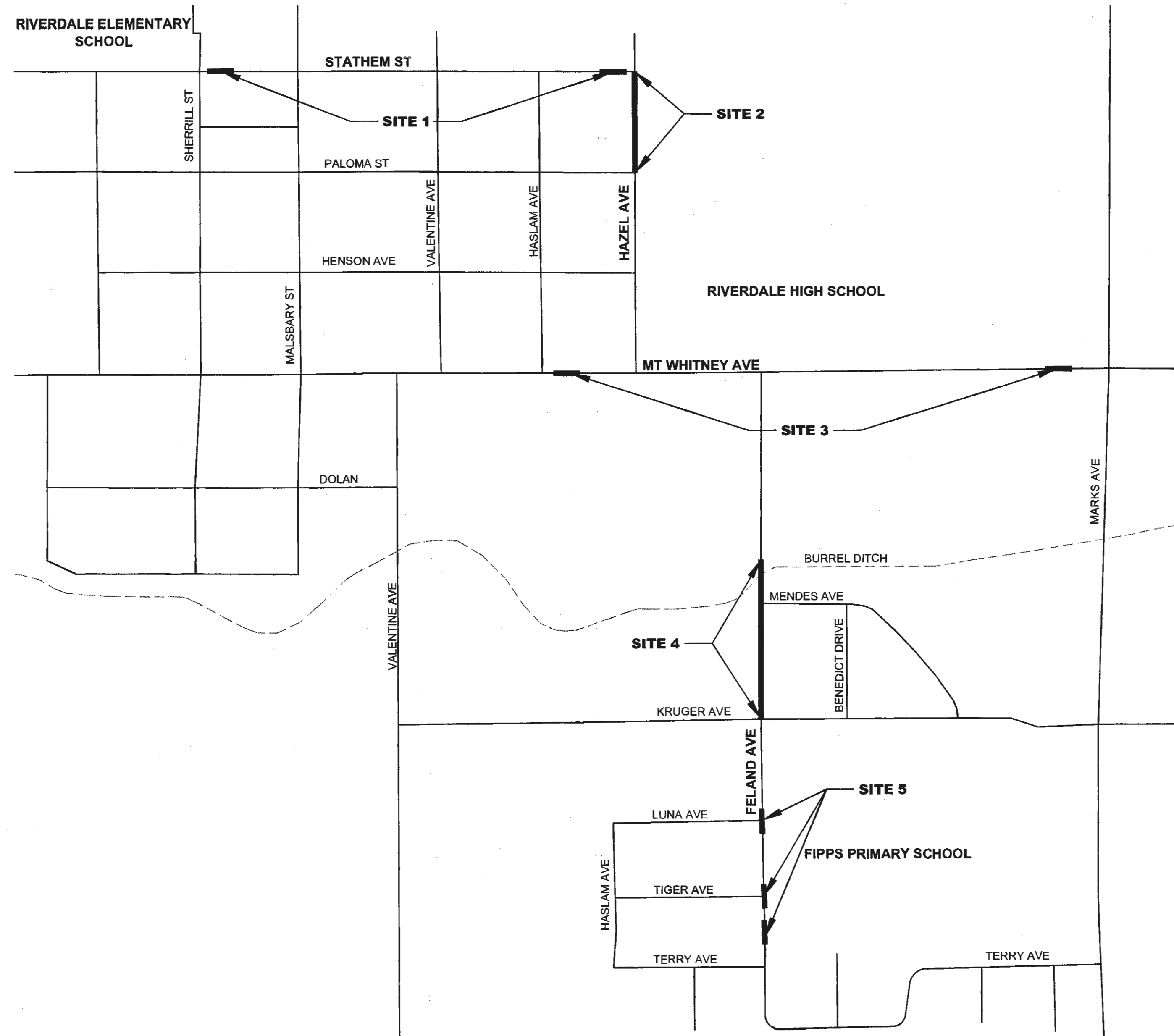
- 10 - 12 BRIDGE FOUNDATION PLANS

#### CONSTRUCTION DETAILS:

- 13 - 14 CONSTRUCTION DETAILS

#### SIGNING AND STRIPING:

- 15 SIGNING AND STRIPING LEGEND
- 16 SIGNING AND STRIPING PLAN: HAZEL AVE & FELAND AVE
- 17 SIGNING PLAN: MT. WHITNEY AVE & STATHEM ST
- 18 TEMPORARY WORK ZONE SIGNING



PROJECT SITE



DEPARTMENT OF PUBLIC WORKS AND PLANNING

Adopted by the County of Fresno Board of Supervisors

July 11, 2017

Brian Pacheco Chairman 1st District  
 Sal Quintero Vice Chairman 3rd District  
 Andreas A. Borgeas 2nd District  
 Ernest Buddy Mendes 4th District  
 Nathan Magsig 5th District

Jean Rousseau  
 County Administrative Officer

APPROVED

Steven E. White, Director  
 Department of Public Works and Planning

CONTRACTOR'S LICENSING REQUIREMENT					
CLASS A, GENERAL ENGINEERING					
CLASS C-8, CONCRETE					
DRAWING NO.	ROAD NO.	BRIDGE NO.	FISCAL YR.	SHEET NO.	TOTAL
11253	N/A	N/A	2017/18	1	18
CONTRACT NO. 17-10-C					

RECORD DRAWING	
CONTRACTOR	
NAME	
ADDRESS	
CITY	STATE ZIP
PHONE	
DATE AWARDED	
DATE STARTED	
DATE COMPLETED	
RESIDENT ENGINEER	
NAME	SIGNATURE
NAME	SIGNATURE

2015 CALTRANS STANDARD PLANS LIST

■	INDICATES APPLICABLE PLAN
□ A20A	PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS.
□ A20B	PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS.
□ A20C	PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS.
□ A20D	PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS.
■ A24F	PAVEMENT MARKINGS CROSSWALKS
□ A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE SURCHARGE AND WALL.
□ A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE.
□ A62D	EXCAVATION AND BACKFILL CONCRETE PIPE CULVERTS.
□ A62DA	EXCAVATION AND BACKFILL CONCRETE PIPE CULVERTS.
■ A73A	OBJECT MARKERS
■ A73B	MARKERS
□ A74	METAL BEAM GUARD RAILING TYPICAL LAYOUTS FOR ROADSIDE FIXED OBJECTS.
□ A78C1	THREE BEAM BARRIER STANDARD HARDWARE DETAILS.
□ A78C2	THREE BEAM BARRIER POST AND BLOCK DETAILS.
□ A78E1	SINGLE THREE BEAM BARRIER TERMINAL SYSTEM END TREATMENT.
□ A81C	CRASH CUSHION, SAND FILLED (BIDIRECTIONAL).
□ B3-3	RETAINING WALL TYPE 1A.
■ RSP A85	CHAIN LINK FENCE
■ RSP A85A	CHAIN LINK FENCE DETAILS
■ RSP A88A	CURB RAMP DETAILS
■ RSP ES-6B	ELECTRICAL SYSTEMS (ELECTRODIE ANCHORAGE & GROUTING FOR TYPES 15 & TYPE 21, CARRIER RAIL MOUNTED)
■ RSP ES-7B	ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD - TYPE 1 AND EQUIPMENT IDENTIFICATION CHARACTERS)
■ RSP ES-7M	ELECTRICAL SYSTEMS (SIGNAL AND LIGHTING STANDARD - DETAIL NO. 1)

FRESNO METROPOLITAN FLOOD CONTROL DISTRICT STANDARD PLANS

■ A	LEGENDS FOR CONSTRUCTION DRAWINGS
■ A-4	TYPE "D" INLET/OUTLET
■ B-1	TYPE "A" MANHOLE (CASE I, II, & III)
■ B-7	MANHOLE FRAME & COVER
■ G-1	TRENCH EXCAVATION, BACKFILL, SURFACE RESTORATION

GENERAL NOTES

- DIMENSIONS SHOWN ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- STATE STANDARD SPECIFICATIONS - 2015 EDITION
- THE FOLLOWING SHALL APPLY TO ALL EARTHWORK QUANTITIES:
  - ROADWAY EXCAVATION QUANTITIES ARE IN PLACE VOLUMES OF EXCAVATION. THESE QUANTITIES INCLUDE EXISTING PAVEMENTS, WASTE MATERIAL, AND EXCAVATION FOR ROAD APPROACHES AND DRIVEWAYS, AND PBS MATERIAL. NO ALLOWANCE FOR SHRINKAGE.
  - WASTE MATERIAL IS ROADWAY EXCAVATION UNSUITABLE FOR OR NOT NEEDED IN EMBANKMENT CONSTRUCTION.
  - EMBANKMENT QUANTITIES ARE IN PLACE VOLUMES REQUIRED TO CONSTRUCT THE ROADBED TO THE GRADING PLANE. THESE QUANTITIES INCLUDE AN ALLOWANCE FOR ROAD APPROACHES AND DRIVEWAYS. NO ALLOWANCE FOR SUBSIDENCE.
- SAW-CUT AND DEMOLITION AREAS ARE TO BE VERIFIED BY THE ENGINEER PRIOR TO DEMOLITION. THE LIMITS OF CONCRETE REPLACEMENT COULD EXTEND BEYOND THE OUTLINE IN ORDER TO MEET ADA REQUIREMENTS. ANY ADDITIONAL DEMOLITION SHALL BE APPROVED BY THE ENGINEER.
- ADJACENT ASPHALT CONCRETE MAY NEED TO BE REMOVED TO MAKE A COMPLIANT LADING AREA, AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL SAW-CUT THE EDGES OF THE PAVEMENT AREA TO BE REMOVED.
- THE CONTRACTOR SHALL COORDINATE WITH ANY UTILITY COMPANIES THAT REQUIRE THEIR FACILITIES TO BE ADJUSTED TO GRADE. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING EACH SITE AND IDENTIFYING ANY UTILITIES THAT MAY REQUIRE ADJUSTMENT. ANY UNFORESEEN DELAY SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY IN WRITING.
- PRIOR TO CONSTRUCTING THE NEW RAMPS, THE CONTRACTOR SHALL VERIFY THE EXISTING GUTTER FLOW LINE DIRECTION. THE CONTRACTOR SHALL MAINTAIN THE EXISTING FLOW DIRECTION AND/OR ELIMINATE ANY POTENTIAL PONDING AND REVERSE FLOW WITHIN THE GUTTER.
- THE CONTRACTOR SHALL PLACE CAUTION TAPE AND SET UP BARRICADES WITH APPROPRIATE SIDEWALK CLOSURE SIGNS PER CURRENT VERSION OF CA MUTCD SURROUNDING EACH SITE UNDER CONSTRUCTION. ADDITIONALLY THE CONTRACTOR SHALL PROVIDE SAFE ALTERNATE AND ADA ACCESSIBLE ROUTES FOR PEDESTRIANS WHILE SITES ARE UNDER CONSTRUCTION.
- THE CONTRACTOR SHALL RECONSTRUCT EACH CURB RAMP SITE WITHIN 7 WORKING DAYS AFTER DEMOLITION.
- COMPACT NATIVE SOIL TO 95% RELATIVE COMPACTION UNDER ROADWAY, CURB, GUTTER, VALLEY GUTTER, DRIVE APPROACH AND DRIVE WAY PER CALTRANS TEST 216 AND 90% RELATIVE COMPACTION UNDER SIDEWALK AND OTHER PEDESTRIAN AREAS.
- BACKFILL AND COMPACT NATIVE SOIL AT THE BACK OF SIDEWALKS SO THAT FINAL BACKFILL SURFACE IS NOT MORE THAN 1" BELOW THE SIDEWALK SURFACE.
- TRANSITIONS FROM RAMPS AND LANDINGS TO WALKS, GUTTER OR STREETS SHALL BE FLUSH (NO LIP) AND FREE OF ABRUPT CHANGES.
- APPLY TACK COAT TO GUTTER PAN FACE AND EXISTING AC PRIOR TO PAVING
- EXPANSION JOINT MATERIAL SHALL CONSIST OF 1/4" PREMOLDED JOINT FILLER MEETING ASTM DESIGNATION D-1751.
- WHEN RESETTING SIGNS WITHIN AREAS TO BE CONSTRUCTED THE SIGN POSTS SHALL BE INSTALLED WITHIN A 6" LONG X 6" IN DIAMETER PVC SLEEVE. PLUG SLEEVE 2" FROM TOP WITH GROUT AFTER SIGN INSTALLATION.
- MATCH EXISTING SIDEWALK CURB PATTERNS IN AREAS WHERE REMOVING AND REPLACING SIDEWALK
- COMPACT ALL FILL AREAS 90% RELATIVE COMPACTION UNLESS NOTED OTHERWISE

GENERAL LEGEND

ABBREVIATIONS

AB	AGGREGATE BASE	DI	DRAINAGE INLET	LP	LIMIT OF PAYMENT	RT	RIGHT
ABUT	ABUTMENT(S)	DIA	DIAMETER	LT	LEFT	RTE	ROUTE
AC	ASPHALT CONCRETE	DIST	DISTANCE	MAX	MAXIMUM	RW	RETAINING WALL
AHD	AHEAD	DO	DRAINAGE OUTLET	MB	METAL BEAM	R/W	RIGHT OF WAY
ALIGN	ALIGNMENT	DRWY	DRIVEWAY	MBGR	METAL BEAM GUARD RAILING	S	SLOPE
ALY	ALLEY	EA	EACH	MH	MANHOLE	SALV	SALVAGE
AP	ANGLE POINT	EASE	EASEMENT	MI	MILE (S)	SD	STORM DRAIN
APCH	APPROACH	EB	END OF BRIDGE	MIN	MINIMUM	SEC	SECTION
APPROX	APPROXIMATE ± ( )	EBL	EAST BOUND LANE	MISC	MISCELLANEOUS	SDWK	SIDEWALK
AS	AGGREGATE SUBBASE	EC	END HORIZONTAL CURVE	MOD	MODIFY (IED)	SH	STATE HIGHWAY
ASSY	ASSEMBLY	ECR	END CURB RETURN	MON	MONUMENT	SHLDR	SHOULDER
AV	AIR RELEASE VALVE	ED	END DIKE	MP	MILE POST	SHT	SHEET
AVE	AVENUE	ELEV	ELEVATION	MTL	MATERIAL	S/L	SECTION LINE
BB	BEGINNING OF BRIDGE	(ELEV)	EXISTING ELEVATION	N/A	NOT APPLICABLE	SP	STANDPIPE
BC	BEGIN HORIZONTAL CURVE	EMB	EMBANKMENT	NBL	NORTH BOUND LANE	SQ	SQUARE
BCM	BRASS CAP MONUMENT	EP	EDGE OF PAVEMENT	NO (#)	NUMBER	SQ FT	SQUARE FOOT (FEET)
BCR	BEGIN CURB RETURN	EQ	EQUAL	NS	NATIVE SOIL	SQ IN	SQUARE INCH
BEG	BEGINNING	ES	EDGE OF SHOULDER	OC	ON CENTER	ST	STREET
BFC	BACK FACE OF CURB	ETL	EDGE OF TRAVEL LANE	OD	OUTSIDE DIAMETER	STA	STATION
BKF	BACKFILL	EVC	END VERTICAL CURVE	OG	ORIGINAL GROUND	STD	STANDARD
BLVD	BOULEVARD	EW	ENDWALL	PB	PULL BOX	STR	STRUCTURE (S)
BM	BENCH MARK	EXC	EXCAVATION	PBS	PULV BIT SURF	SURF	SURFACING
BR	BRIDGE	EXIST / (E)	EXISTING	PE	POLYETHYLENE	STP	STEEL PIPE
BVC	BEGIN VERTICAL CURVE	EXP JT	EXPANSION JOINT	PCC	PORTLAND CEMENT CONCRETE	SWR	SEWER
BW	BARBED WIRE	FCBCM	FRESNO COUNTY BCM	PERM	PERMEABLE	TAN OFF	TANGENT OFFSET
CC	CENTER TO CENTER	FG	FINISHED GRADE	PG	PROFILE GRADE	TBM	TEMPORARY BM
CF	CUBIC FOOT (FEET)	FH	FIRE HYDRANT	PI	POINT OF INTERSECTION	TBR	TIMBER
CFS	CUBIC FEET PER SECOND	FL	FLOW LINE	PL	PLATE	TCP	TEMPORARY CONST PERMIT
C & G	CURB AND GUTTER	FRE	FRESNO	P/L	PROPERTY LINE	TFC	TOP FACE OF CURB
CHNL	CHANNEL	FR RD	FRONTAGE ROAD	PM	POST MILE	TFP	TRANSFORMER POLE
CI	CITY	FT	FOOT (FEET)	POC	POINT ON CURVE	TOT	TOTAL
CIDH	CAST-IN DRILLED HOLE	GAL	GALLON (S)	POT	POINT ON TANGENT	TP	TELEPHONE POLE
CIP	CAST IRON PIPE	GALV	GALVANIZED	PP	POWER POLE	TCB	TRAFFIC CONTROL BOX
CIPCP	CAST-IN-PLACE CONCRETE PIPE	GB	GRADE BREAK	PPP	PERFORATED PLASTIC PIPE	TRANS	TRANSITION
CIL (C)	CENTER LINE	GM	GRADE MATCH	PRF	PAVEMENT REINFORCING FABRIC	TS	TRAFFIC SIGNAL
CL	CHAIN LINK	GRUB	GRUBBING	PSF	POUNDS PER SQUARE FOOT	TYP	TYPICAL
CLR	CLEAR (ING), CLEARANCE	GW	GUY WIRE	PSI	POUNDS PER SQUARE INCH	TYP SEC	TYPICAL SECTION
CMP	CORRUGATED METAL PIPE	HORIZ	HORIZONTAL	PT	PEDESTAL TELEPHONE	UC	UNDERCROSSING
CMPA	CORRUGATED METAL PIPE ARCH	HP	HINGE POINT	PNT	POINT	UG	UNDERGROUND
CNS	COMPACTED NATIVE SOIL	HS	HIGH STRENGTH	PULV	PULVERIZED	UD	UNDERDRAIN
CO	COUNTY	HW	HEAD WALL	PVC	POLYVINYL CHLORIDE	UDR	UNDERDRAIN RISER
COMM	COMMERCIAL	HWM	HIGH WATER MARK	PVMT	PAVEMENT	UP	UNDERPASS
CONC	CONCRETE	HWY	HIGHWAY	R	RADIUS	VAR	VARIABLE (ABLE)
CONST	CONSTRUCT (ION)	IB	IMPORTED BORROW	RCB	REINFORCED CONCRETE BOX	VC	VERTICAL CURVE
CONT	CONTINUOUS	ID	INSIDE DIAMETER	RCP	REINFORCED CONCRETE PIPE	VCP	VITRIFIED CLAY PIPE
CP	CONCRETE PIPE	IP	IRON PIPE	RD	ROAD	VERT	VERTICAL
CR	CURB RAMP	IRR	IRRIGATION	R & R	REMOVE AND REPLACE	VG	VALLEY GUTTER
CS	COTTON SPINDLE	IV	IRRIGATION VALVE	REINF	REINFORCED (MENT) (ING)	VP	VENT PIPE
CSP	CORRUGATED STEEL PIPE	JP	JOINT POLE	REL	RELOCATE	WM	WATER METER
CSPA	CORRUGATED STEEL PIPE ARCH	JT	JOINT	RES	RESIDENTIAL	WP	WEAKENED PLANE
CA TV	CABLE TELEVISION	LBS	POUNDS	RET	RETAINING	WR	WHEELCHAIR RAMP
CULV	CULVERT	LF	LINEAR FOOT	RG	RUBBER GASKET	WV	WATER VALVE
CY (CU YD)	CUBIC YARD(S)	LOC	LOCATION	RLG	ROCK LINED GUTTER	WW	WINGWALL
DRWG	DRAWING	LOL	LAYOUT LINE	RR	RAILROAD	WWOL	WINGWALL LAYOUT LINE

CONSTRUCTION SYMBOLS

	TYPE "A" CURB		SURVEY MONUMENT
	TYPE "B3" CURB		CONCRETE COLLAR
	TYPE "FA" CURB		TRENCH RESURFACING
	FA CURB EXTENSION		SAW CUT
	COMMERCIAL SIDEWALK		OVERSIDE DRAIN
	RESIDENTIAL SIDEWALK		MISC TRAFFIC SIGN
	ADJACENT RES SIDEWALK		STOP SIGN
	CONCRETE HOUSEWALK	"L"	DENOTES LENGTH IN FEET
	VALLEY GUTTER	"T"	DENOTES TYPE (FL, MF, P, PC, PD, PI)
	MAIL BOX		SECTION CORNER
	CONCRETE DRIVEWAY		PLACE AC, MISC AREA
	S' AC DRIVEWAY		DIRECTION OF FLOW
	S' DIRT DRIVEWAY		GRADE TO FLOW
	MODIFY CONC DRIVEWAY		CHAIN LINK FENCE
"W"	DENOTES WIDTH		BARBED WIRE FENCE
"D"	DENOTES MATCH DISTANCE		INSTALL CONTROL ASSY
"S"	DENOTES SKEW ANGLE		WATER SERVICE TO MEDIAN
	DRAINAGE INLET		DETAIL NO. REFERENCE TO STATE STANDARD PLAN DETAIL
	DRAINAGE OUTLET		DETAIL NO. REFERENCE TO DETAIL ON DWG. OR DETAIL TITLE
	INSTALL MANHOLE		DETAIL NO. SECTION CUT
	INSTALL WATER VALVE		DETAIL NO. SECTION CUT
	ADJUST MANHOLE		DETAIL NO. SECTION CUT
	ADJUST AIR RELEASE VALVE		DETAIL NO. SECTION CUT
	ADJUST WATER VALVE		DETAIL NO. SECTION CUT
	2" AC DEPRESSED DIKE		DETAIL NO. SECTION CUT
	4" AC INTERMEDIATE DIKE		DETAIL NO. SECTION CUT
	6" AC DIKE		DETAIL NO. SECTION CUT
	RADIUS		DETAIL NO. SECTION CUT
"R"	DENOTES RADIUS IN FEET		DETAIL NO. SECTION CUT

UTILITY NOTES

- LOCATIONS OF EXISTING UNDERGROUND FACILITIES ARE APPROX. EXACT DEPTH AND LOCATIONS ARE UNKNOWN. FIELD LOCATE PRIOR TO THE START OF CONSTRUCTION  
 \*\*CALL UNDERGROUND SERVICE ALERT (USA) 811
- CONTRACTOR TO POT HOLE LOCATIONS OF VEHICLE FEEDBACK SIGN FOUNDATIONS, DI, AND NEW STORM DRAIN PIPE PRIOR TO EXCAVATION.

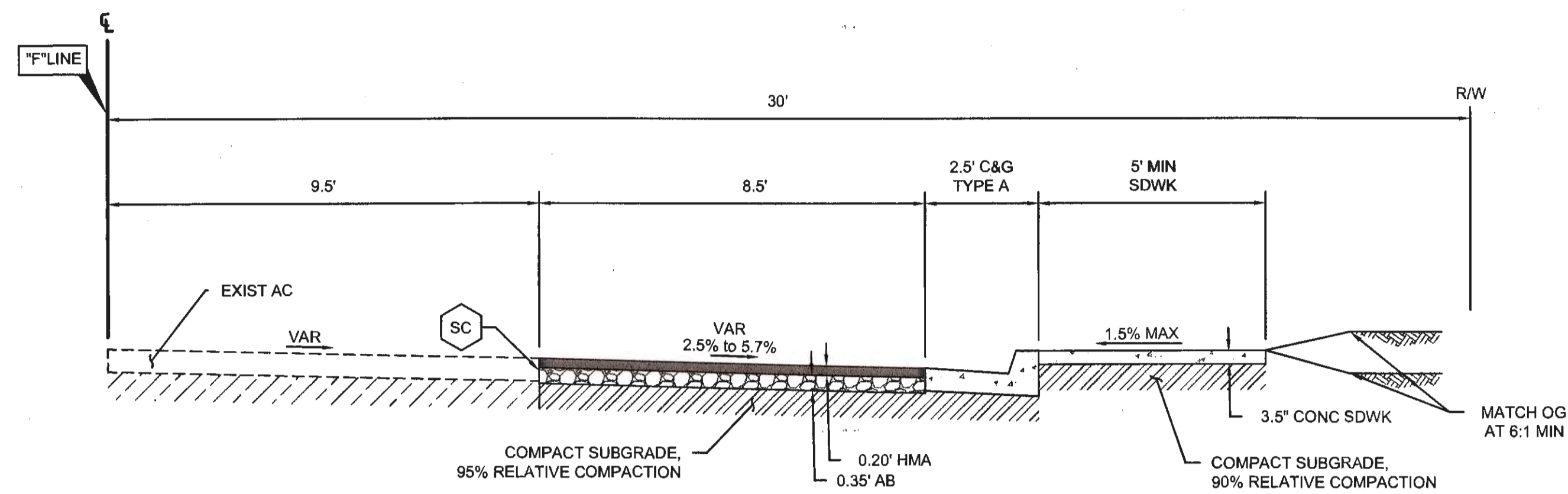
UTILITY SYMBOLS

	STAND PIPE		MH-STORM DRAIN		UG CABLE		STREET LIGHT POLE		EXISTING
	IRR UG PIPE FLOW		MH-ELECTRICAL		UG STORM DRAIN LINE		EXISTING SIGNAL POLE		EXISTING
	IRR UG PIPE CAPPED		MH-FO/CABLE		UG ELECTRIC LINE		STORM DRAIN DROP INLET		EXISTING
	IRR VALVE SCREW GATE		MH-GAS		UG FIBER OPTIC		STORM DRAIN GRATE		EXISTING
	IRR TOP GATE VALVE		MH-SANITARY SWR		UG GAS LINE		STEEL DRAIN PIPE		EXISTING
	IRR PIPE 12" VERTICAL		MH-TELEPHONE		UG SANITARY SEWER		DOWN DRAIN		EXISTING
	VENT PIPE		MH-WATER		UG TELEPHONE LINE		JOINT TRANSFORMER POLE		EXISTING
	IRR VALVE - BUBBLER		ELEC METER		UG WATER LINE		WARNING SIGN		EXISTING
	IRR VALVE, DRIP SYSTEM		ELECTRIC VAULT		OVERHEAD ELEC LINE		WARNING SIGN		EXISTING
	IRR PIPE 4" VERT OUTLET		CHRISTY BOX		OVERHEAD TELE LINE		WARNING SIGN		EXISTING
	WATER WELL		TELEPHONE VAULT		MH-GASOLINE FILLER		WARNING SIGN		EXISTING
	WATER WELL PUMP		GAS METER		GASOLINE VENT PIPE		WARNING SIGN		EXISTING
	WATER STORAGE TANK		GAS VALVE		GASOLINE PUMP		WARNING SIGN		EXISTING
	FIRE HYDRANT		WATER METER		CLEAN OUT		WARNING SIGN		EXISTING
	IRR 2"-4" PIPE RISER		WATER VALVE		BACKFLOW PREVENTER		WARNING SIGN		EXISTING
			HOSE BIB		SPRINKLER				

EXISTING IMPROVEMENTS

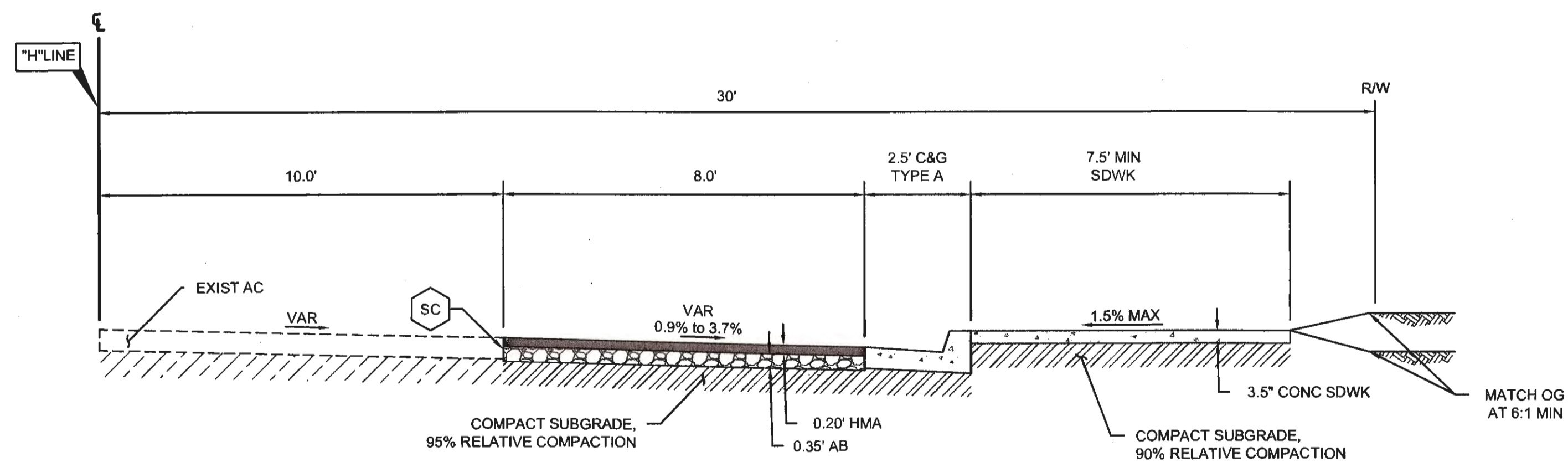
	TYPE "A" CURB		RESIDENTIAL SIDEWALK		DRAIN WELL
	TYPE "B3" CURB		VALLEY GUTTER		INLET OR OUTLET
	TYPE "FA" CURB		SURVEY MONUMENT		WIRE FENCE
	COMMERCIAL SIDEWALK		MAIL BOX		CHAIN LINK FENCE
					MASONRY FENCE
					WOOD FENCE

DESIGNED: G. BATH	DATE: 02/06/2017	RECORD DRAWING	SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: G. BATH	DATE: 02/06/2017	RESIDENT ENGINEER	DATE		RIVERDALE PEDESTRIAN IMPROVEMENTS		LEGEND
CHECKED: J. GARCIA	DATE: 03/14/2017		NOT TO SCALE		VARIOUS LOCATIONS IN RIVERDALE		
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.							
ROAD NO. N/A		BRIDGE NO. N/A		DRAWING NO. 11253		SHEET NO. 2 TOTAL 18	




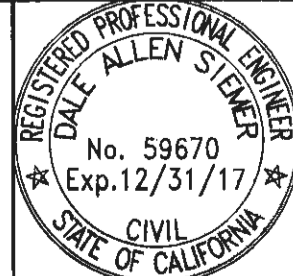

**TYPICAL FELAND AVENUE CROSS SECTION**

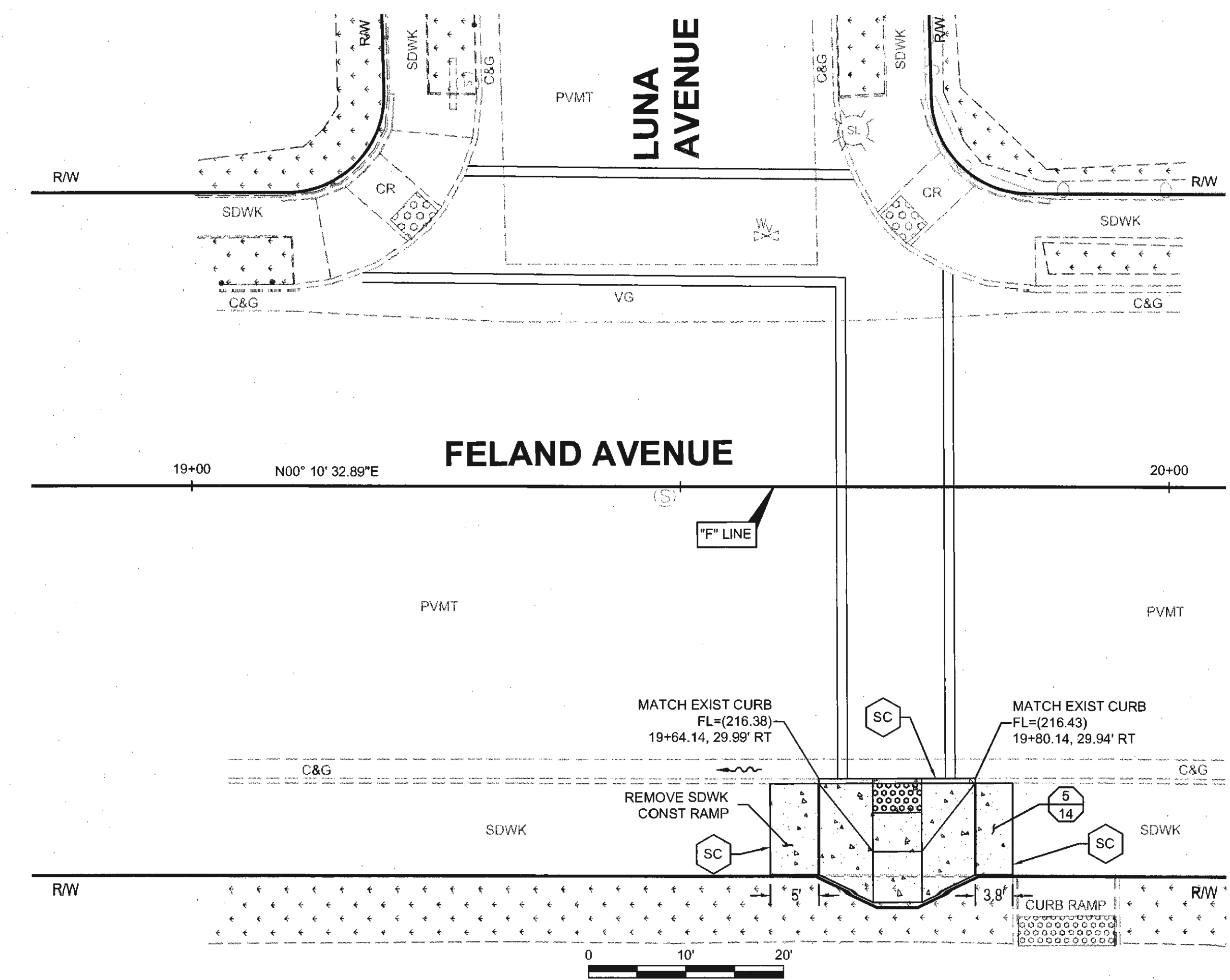
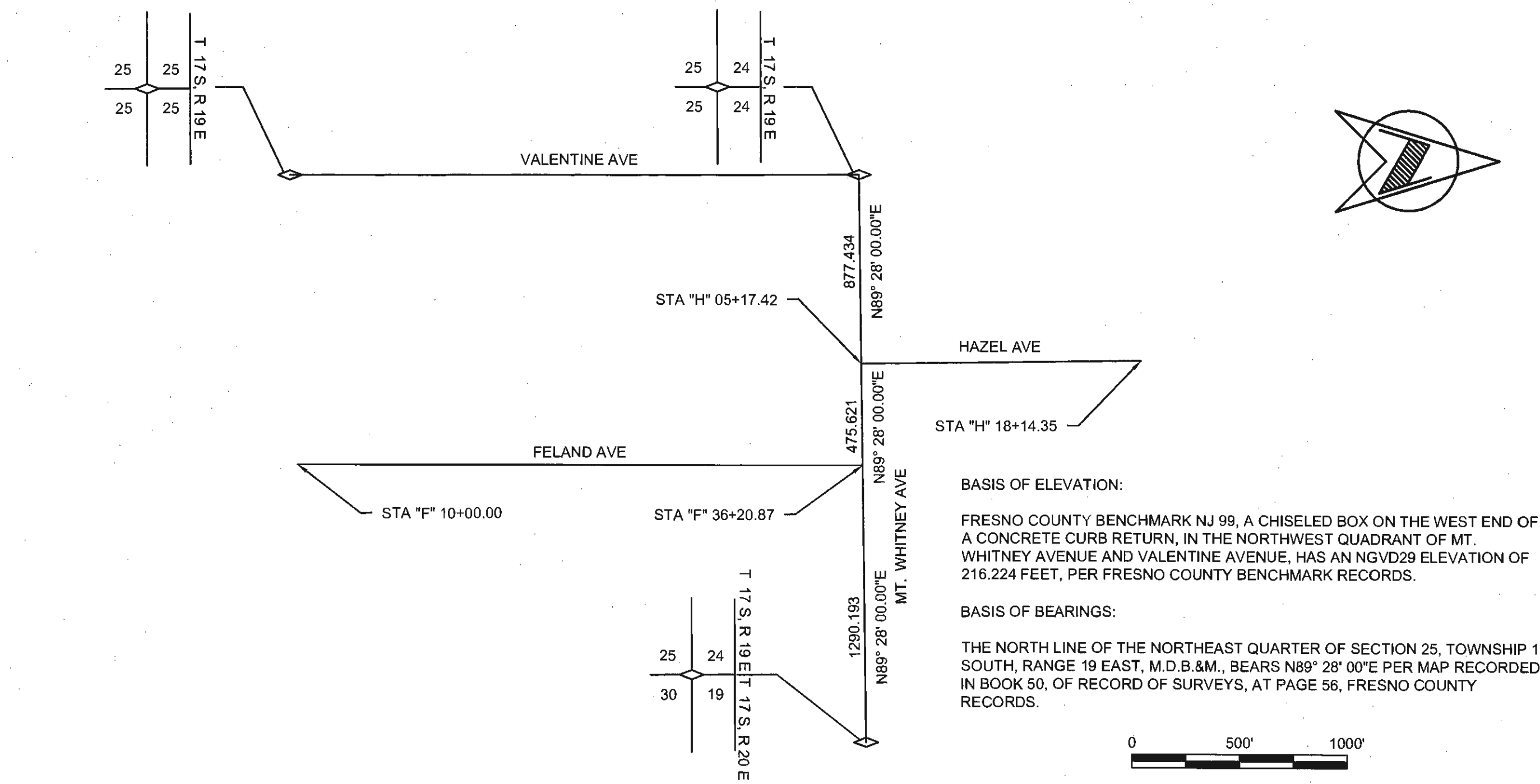
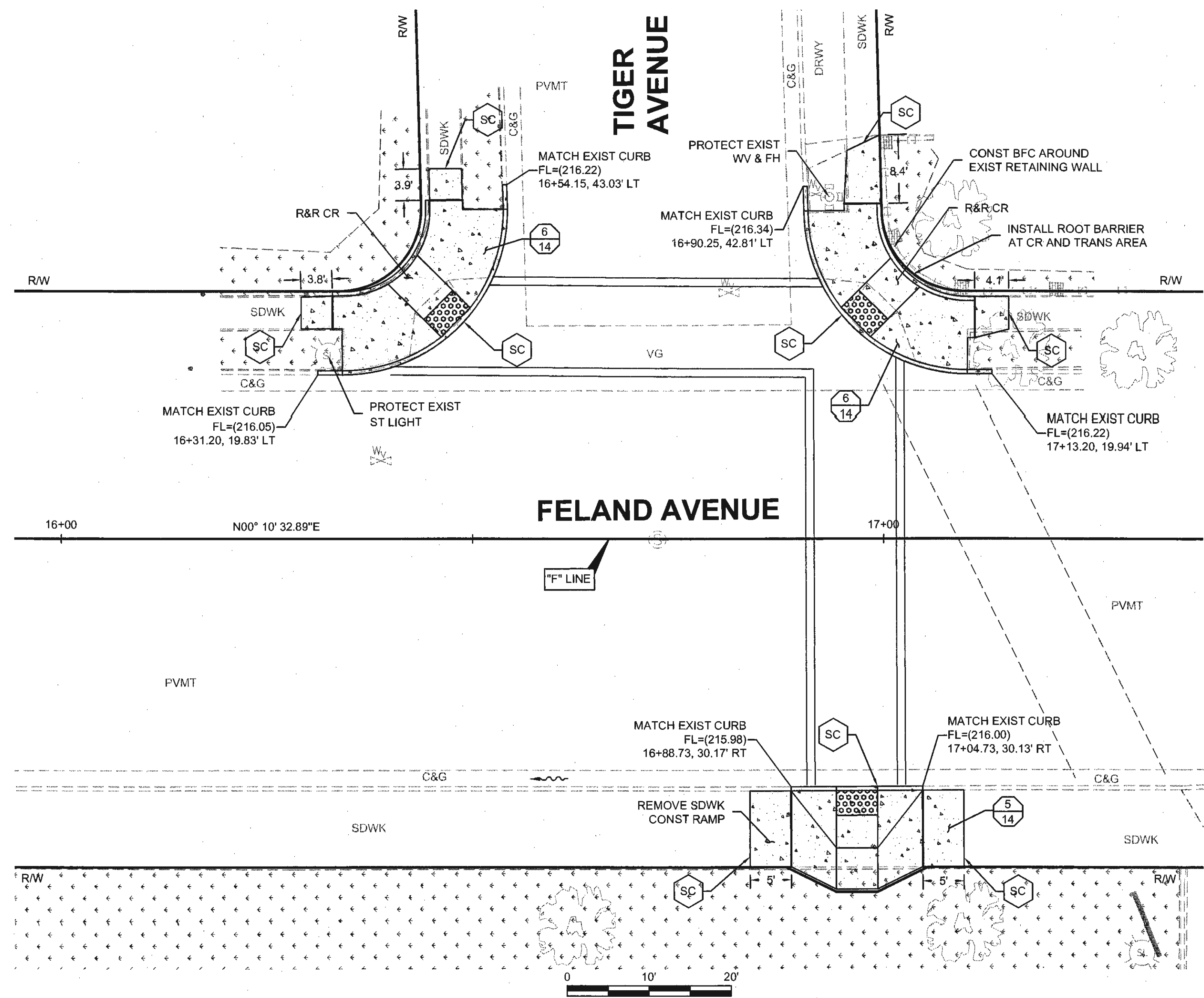
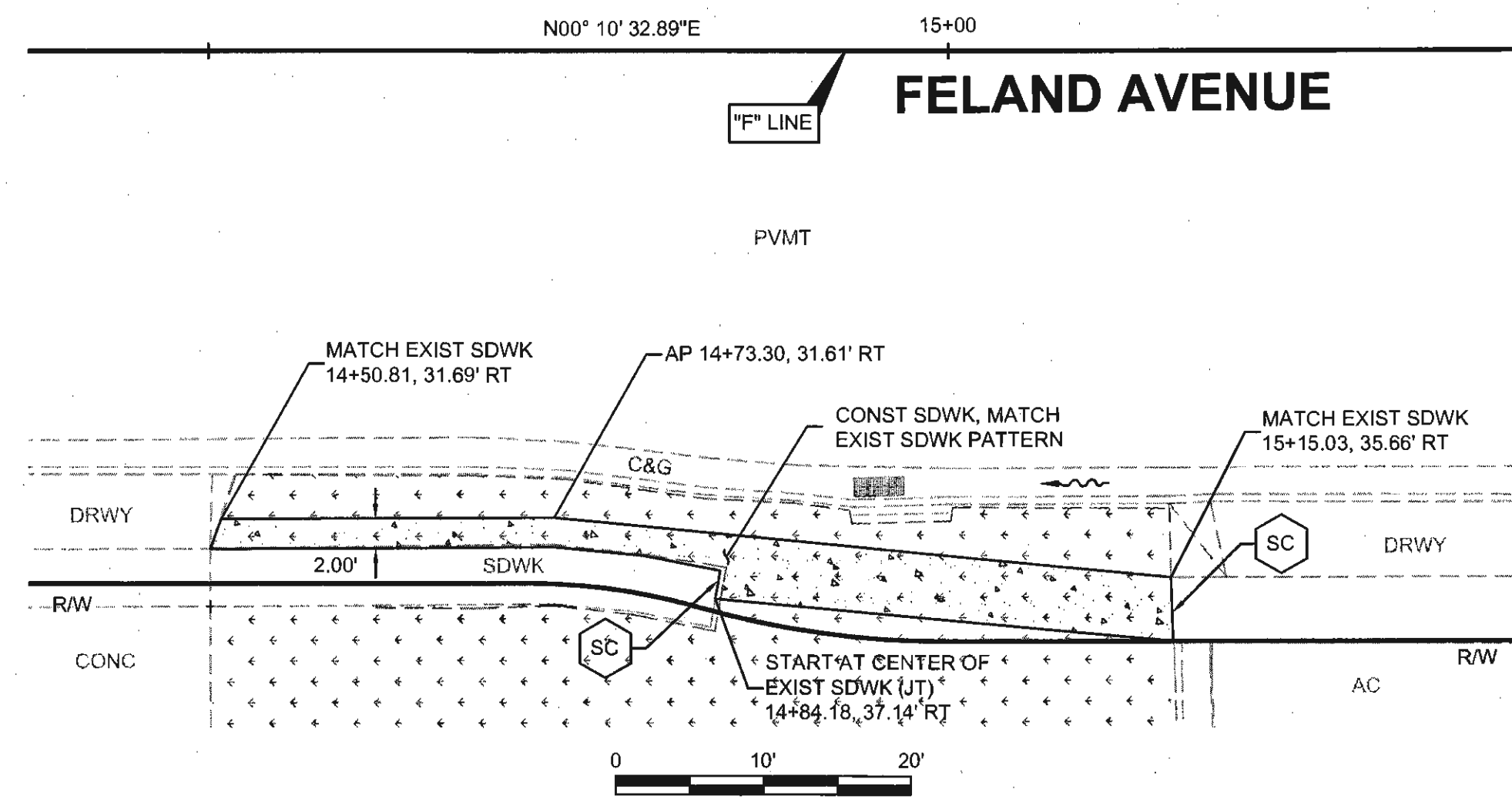
STATION "F" 23+60 TO 29+09.82



**TYPICAL HAZEL AVENUE CROSS SECTION**

STATION "H" 12+40 TO 16+48

DESIGNED: G. BATH	DATE: 02/06/2017	RECORD DRAWING		SCALE	 SUPERVISING ENGINEER DATE: 8/8/17		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: G. BATH	DATE: 02/06/2017	RESIDENT ENGINEER	DATE	NOT TO SCALE			RIVERDALE PEDESTRIAN IMPROVEMENTS		TYPICAL SECTIONS
CHECKED: J. GARCIA	DATE: 03/14/2017						VARIOUS LOCATIONS IN RIVERDALE		
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.							ROAD NO. N/A		BRIDGE NO. N/A



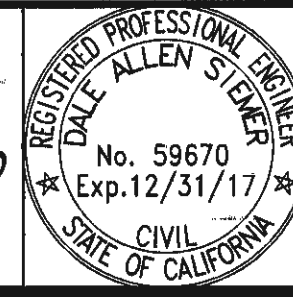
**BASIS OF ELEVATION:**  
 FRESNO COUNTY BENCHMARK NJ 99, A CHISELED BOX ON THE WEST END OF A CONCRETE CURB RETURN, IN THE NORTHWEST QUADRANT OF MT. WHITNEY AVENUE AND VALENTINE AVENUE, HAS AN NGVD29 ELEVATION OF 216.224 FEET, PER FRESNO COUNTY BENCHMARK RECORDS.

**BASIS OF BEARINGS:**  
 THE NORTH LINE OF THE NORTHEAST QUARTER OF SECTION 25, TOWNSHIP 17 SOUTH, RANGE 19 EAST, M.D.B.&M., BEARS N89° 28' 00.00"E PER MAP RECORDED IN BOOK 50, OF RECORD OF SURVEYS, AT PAGE 56, FRESNO COUNTY RECORDS.

DESIGNED: G. BATH	DATE: 02/06/2017	RECORD DRAWING		SCALE
DRAWN: G. BATH	DATE: 02/06/2017	RESIDENT ENGINEER	DATE	AS SHOWN
CHECKED: J. GARCIA	DATE: 03/14/2017			

*[Signature]*  
 SUPERVISING ENGINEER

8/8/17  
 DATE



**PROJECT**  
 RIVERDALE PEDESTRIAN IMPROVEMENTS  
 VARIOUS LOCATIONS IN RIVERDALE

ROAD NO. N/A      BRIDGE NO. N/A

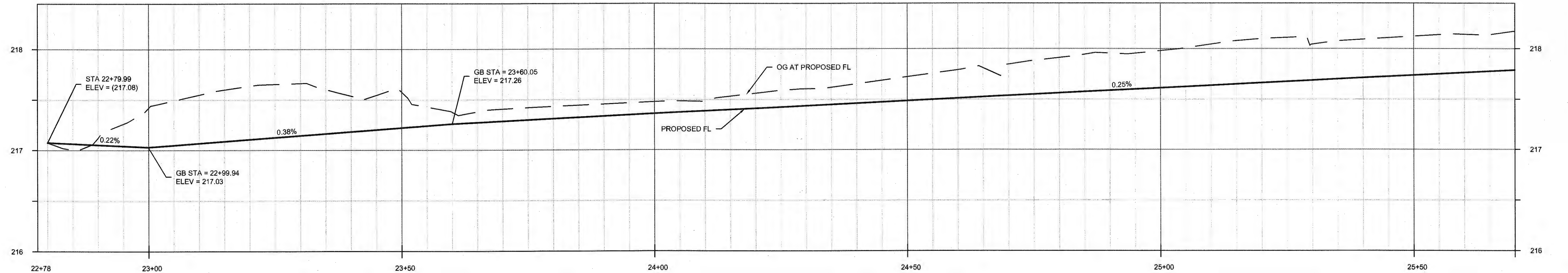
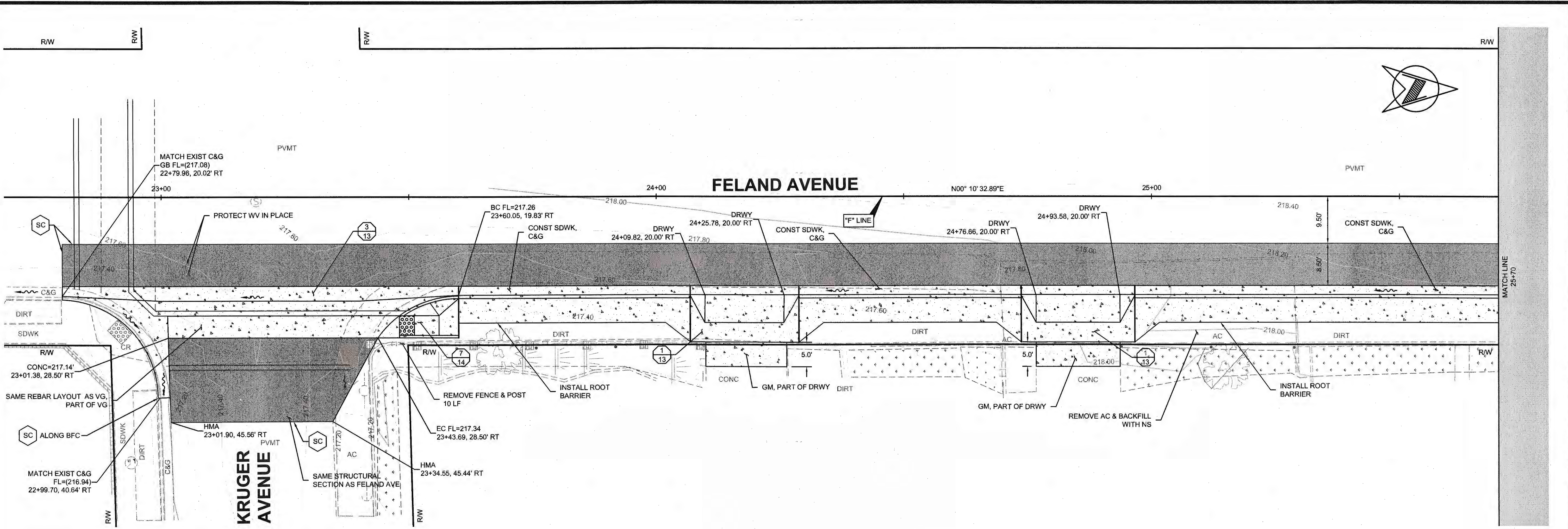


**DEPARTMENT OF PUBLIC WORKS AND PLANNING**

**PLAN**  
 FELAND AVENUE 14+62 - 20+05

DRAWING NO. 11253      SHEET NO. 4      TOTAL 18

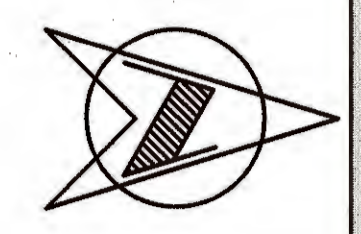
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



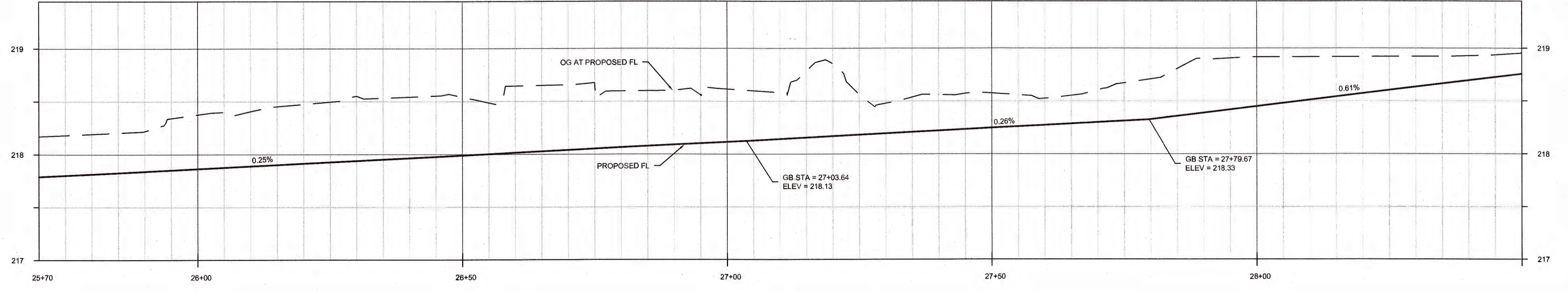
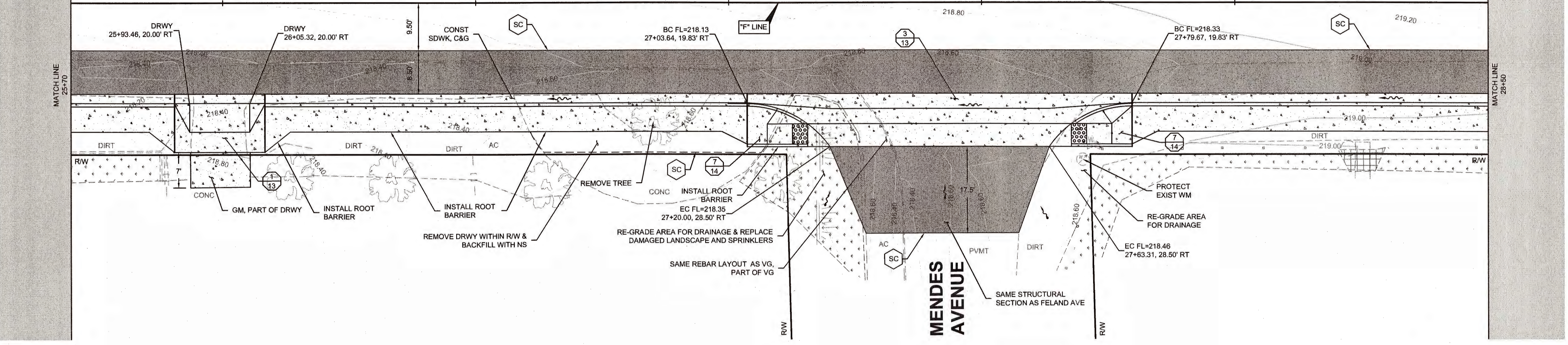
DESIGNED: G. BATH		DATE: 02/06/2017	RECORD DRAWING		SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING		
DRAWN: G. BATH		DATE: 02/06/2017	RESIDENT ENGINEER		HORIZ 0 10' 20'		RIVERDALE PEDESTRIAN IMPROVEMENTS		PLAN AND PROFILE		
CHECKED: J. GARCIA		DATE: 03/14/2017			VERT 0 0.5' 1'		VARIOUS LOCATIONS IN RIVERDALE		FELAND AVENUE 22+90 - 25+70		
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.						SUPERVISING ENGINEER: <i>[Signature]</i> DATE: 8/8/17		ROAD NO. N/A BRIDGE NO. N/A		DRAWING NO. 11253 SHEET NO. 5 TOTAL 18	



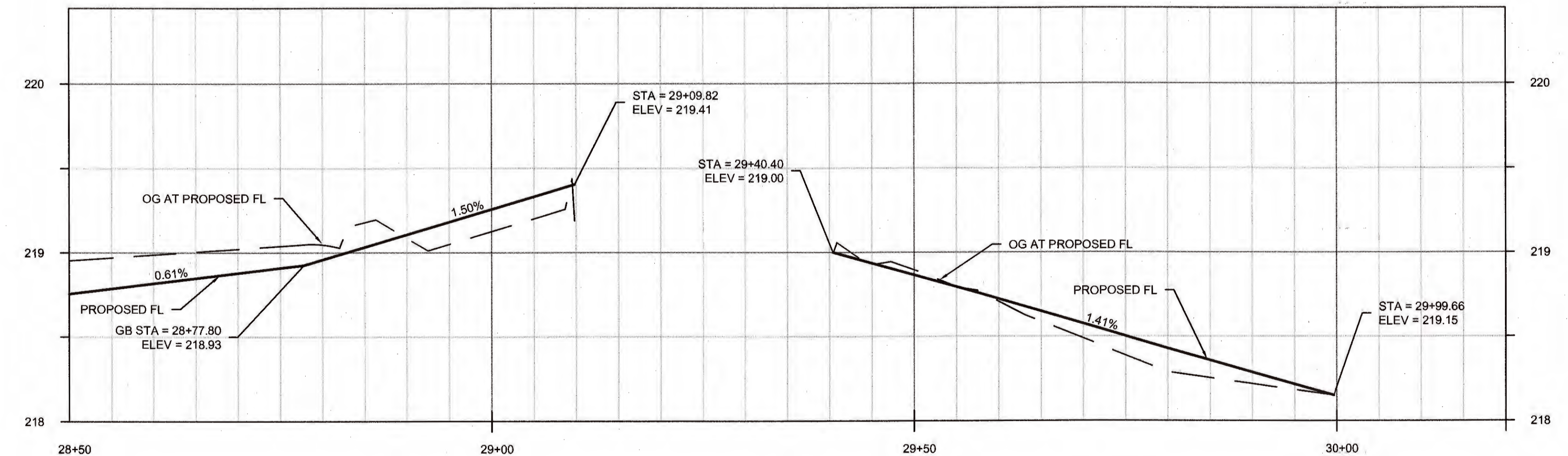
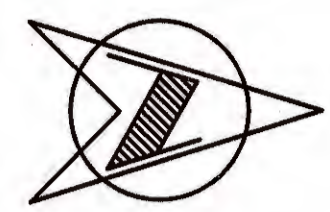
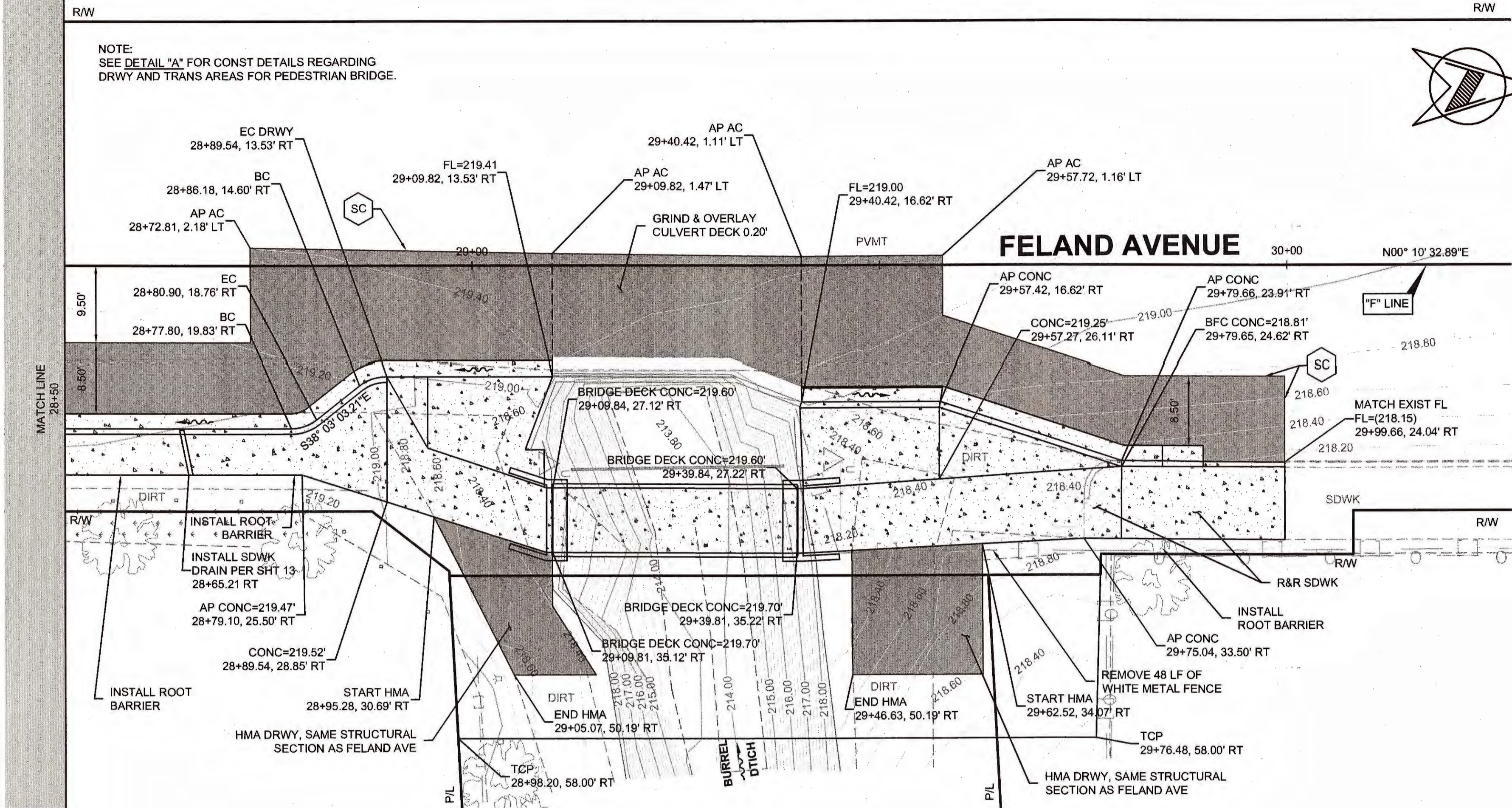
R/W



# FELAND AVENUE

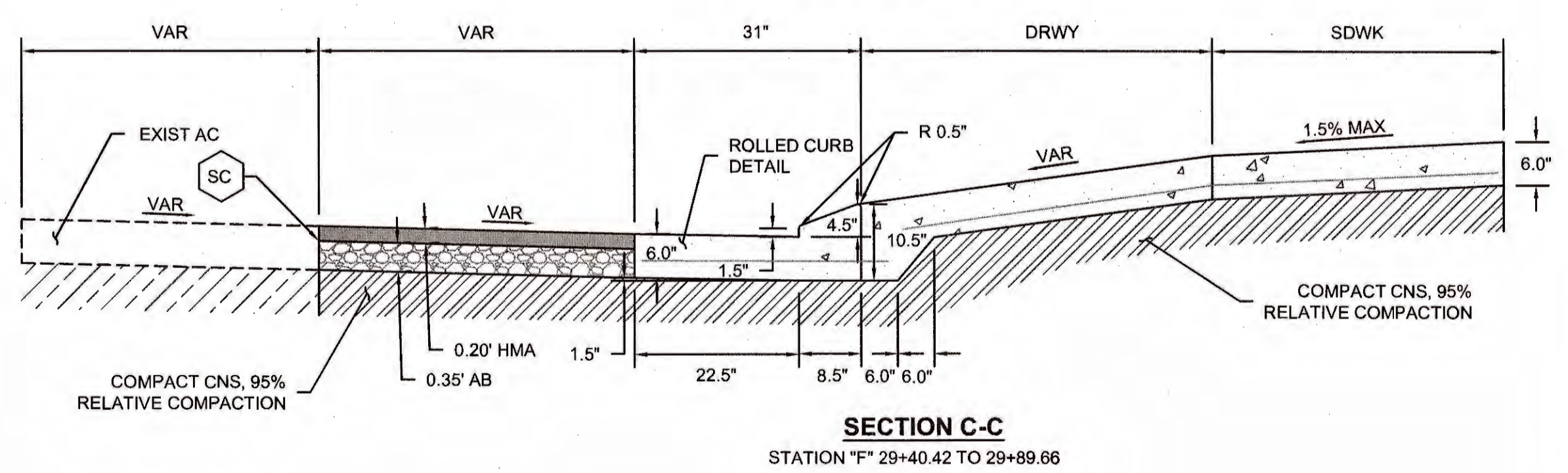
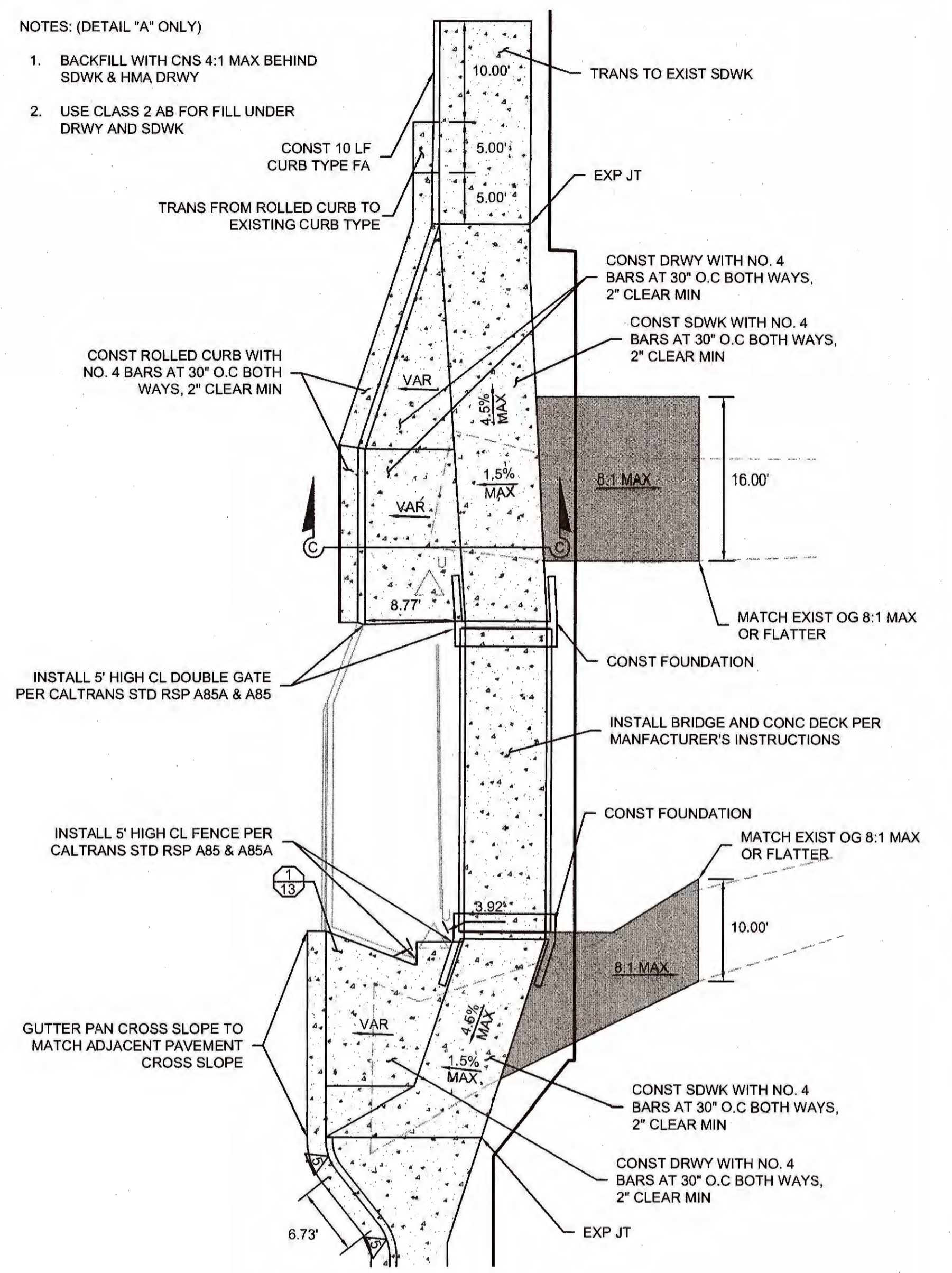


DESIGNED: G. BATH		DATE: 02/06/2017	RECORD DRAWING		SCALE		 SUPERVISING ENGINEER	 DATE: 8/13/17	PROJECT		 DEPARTMENT OF PUBLIC WORKS AND PLANNING	
DRAWN: G. BATH		DATE: 02/06/2017	RESIDENT ENGINEER	DATE					RIVERDALE PEDESTRIAN IMPROVEMENTS			PLAN AND PROFILE FELAND AVENUE 25+70 - 28+50
CHECKED: J. GARCIA		DATE: 03/14/2017							VARIOUS LOCATIONS IN RIVERDALE			
						ROAD NO. N/A BRIDGE NO. N/A			DRAWING NO. 11253 SHEET NO. 6 TOTAL 18			

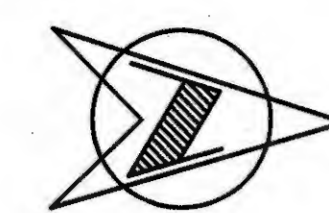


NOTES: (DETAIL "A" ONLY)

- BACKFILL WITH CNS 4:1 MAX BEHIND SDWK & HMA DRWY
- USE CLASS 2 AB FOR FILL UNDER DRWY AND SDWK

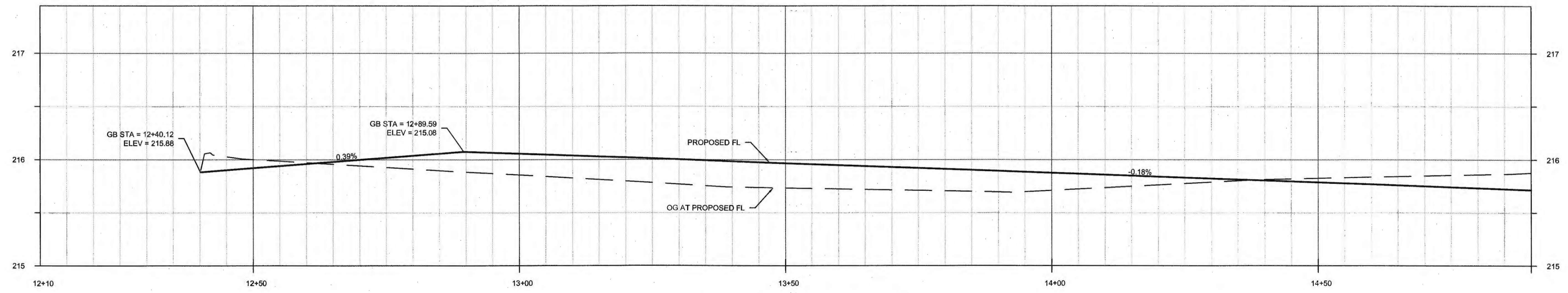
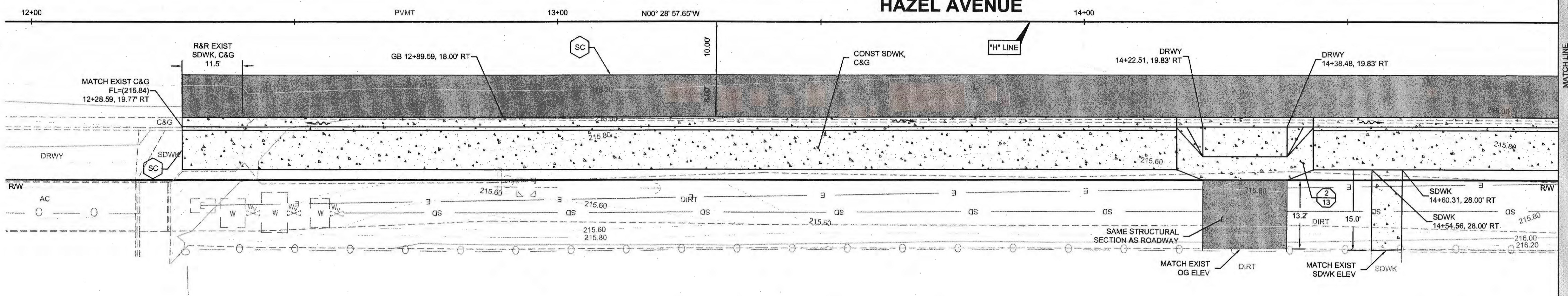



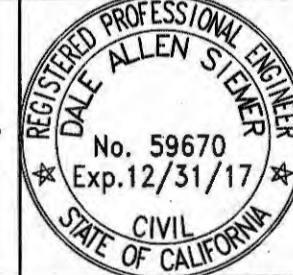

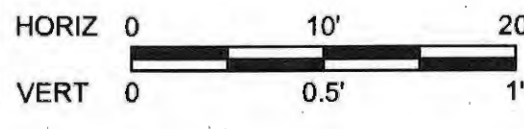
DESIGNED: G. BATH		DATE: 02/06/2017	RECORD DRAWING		SCALE			<b>PROJECT</b> RIVERDALE PEDESTRIAN IMPROVEMENTS VARIOUS LOCATIONS IN RIVERDALE ROAD NO. N/A      BRIDGE NO. N/A		<b>DEPARTMENT OF PUBLIC WORKS AND PLANNING</b> PLAN AND PROFILE FELAND AVENUE 28+50 - 31+30 DRAWING NO. 11253      SHEET NO. 7      TOTAL 18
DRAWN: G. BATH		DATE: 02/06/2017	RESIDENT ENGINEER		HORIZ 0      10'      20' VERT 0      0.5'      1'					
CHECKED: J. GARCIA		DATE: 03/14/2017	DATE		SUPERVISING ENGINEER: <i>[Signature]</i> DATE: 8/8/17					
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.										



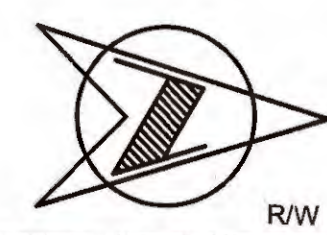
PALOMA STREET

HAZEL AVENUE



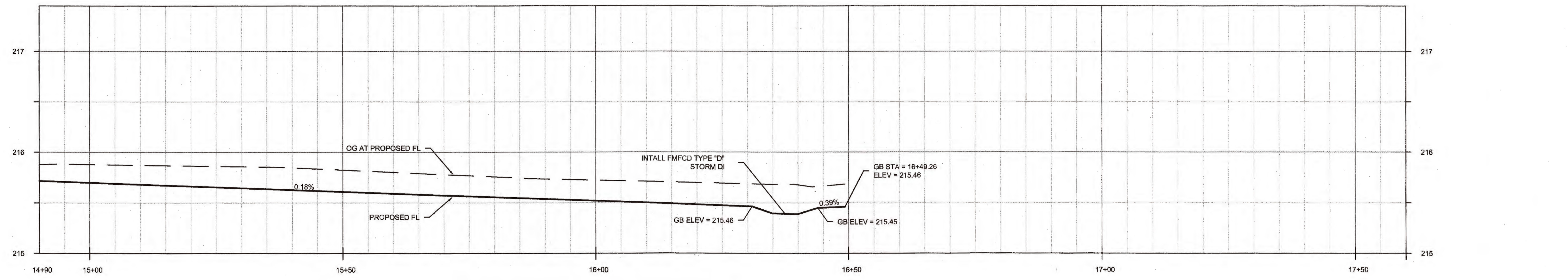
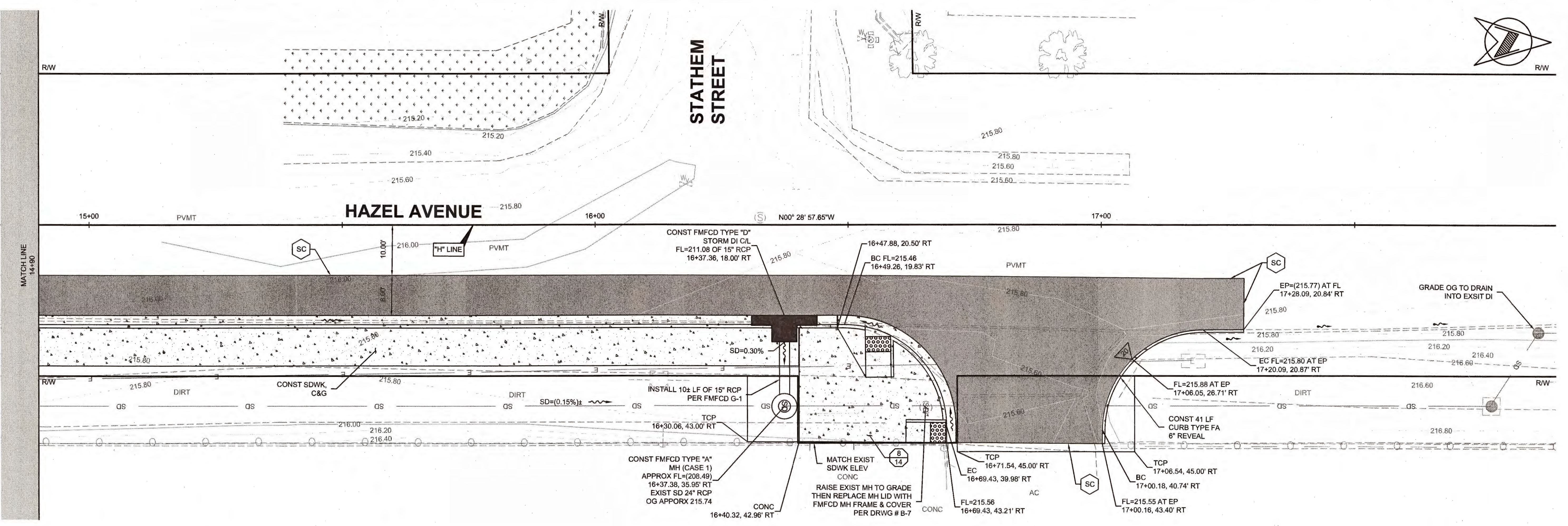
DESIGNED: G. BATH		DATE: 02/06/2017	RECORD DRAWING		SCALE		 SUPERVISING ENGINEER	 DATE: 9/8/17	PROJECT		 DEPARTMENT OF PUBLIC WORKS AND PLANNING		
DRAWN: G. BATH		DATE: 02/06/2017	RESIDENT ENGINEER	DATE					RIVERDALE PEDESTRIAN IMPROVEMENTS			PLAN AND PROFILE	
CHECKED: J. GARCIA		DATE: 03/14/2017							VARIOUS LOCATIONS IN RIVERDALE			HAZEL AVENUE 12+10 - 14+90	
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.													
						ROAD NO. N/A		BRIDGE NO. N/A		DRAWING NO. 11253 SHEET NO. 8 TOTAL 18			

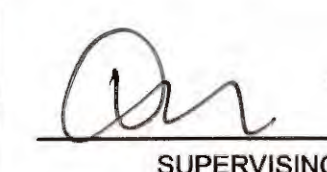
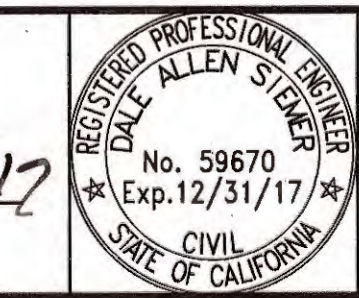

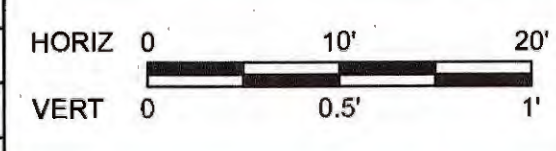




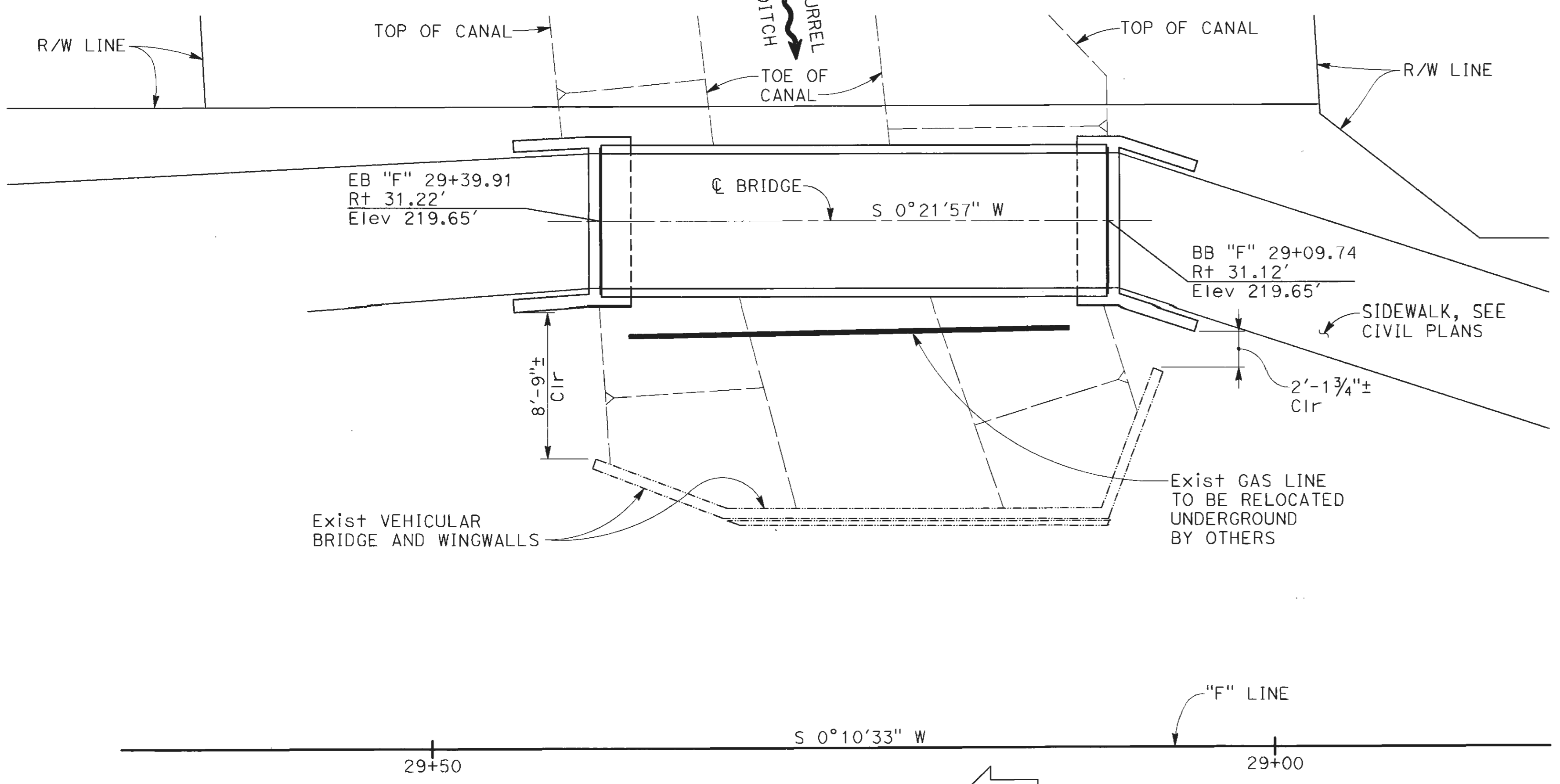
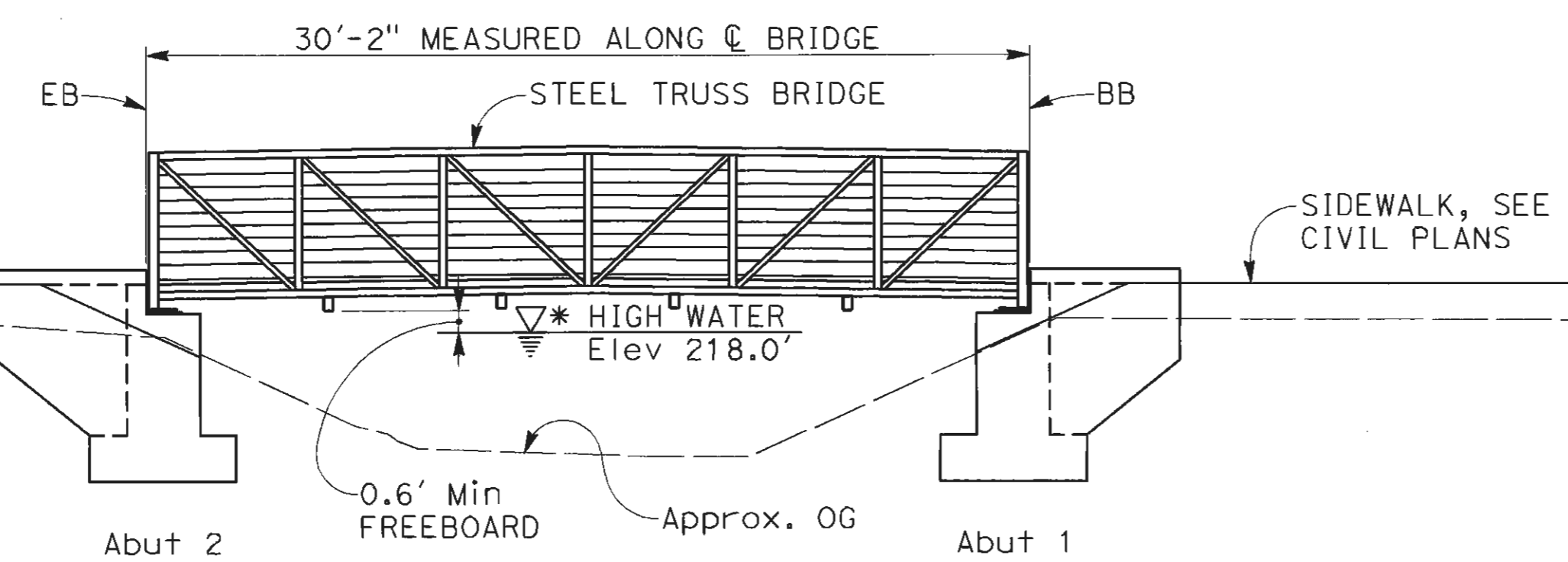
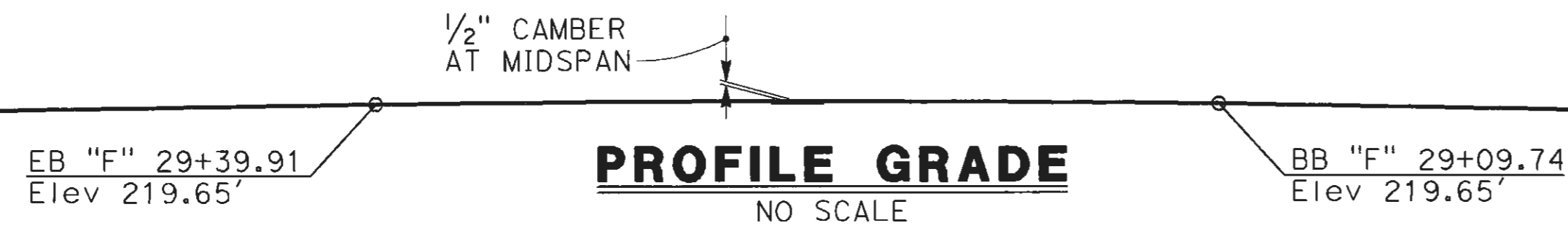
**STATHEM STREET**

**HAZEL AVENUE**

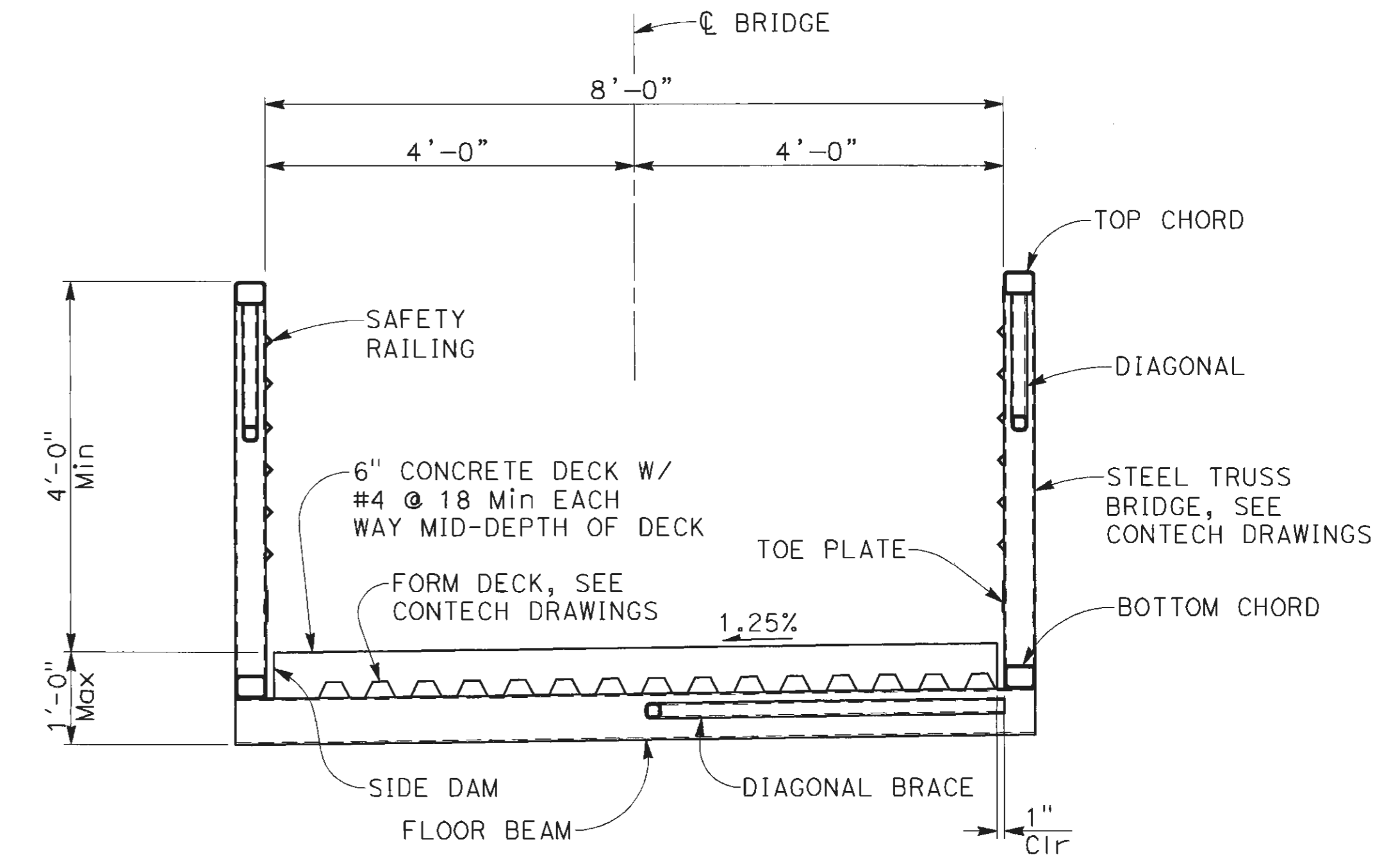


DESIGNED: G. BATH		DATE: 02/06/2017	RECORD DRAWING		SCALE		 SUPERVISING ENGINEER	8/8/17 DATE		PROJECT			DEPARTMENT OF PUBLIC WORKS AND PLANNING				
DRAWN: G. BATH		DATE: 02/06/2017	RESIDENT ENGINEER	DATE						RIVERDALE PEDESTRIAN IMPROVEMENTS			PLAN AND PROFILE				
CHECKED: J. GARCIA		DATE: 03/14/2017								VARIOUS LOCATIONS IN RIVERDALE			HAZEL AVENUE 14+90 - 17+60				
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.													ROAD NO. N/A	BRIDGE NO. N/A	DRAWING NO. 11253	SHEET NO. 9	TOTAL 18

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, SEE 'ROADWAY PLANS'



**PLAN**  
1" = 5'



**TYPICAL SECTION**  
3/4" = 1'-0"

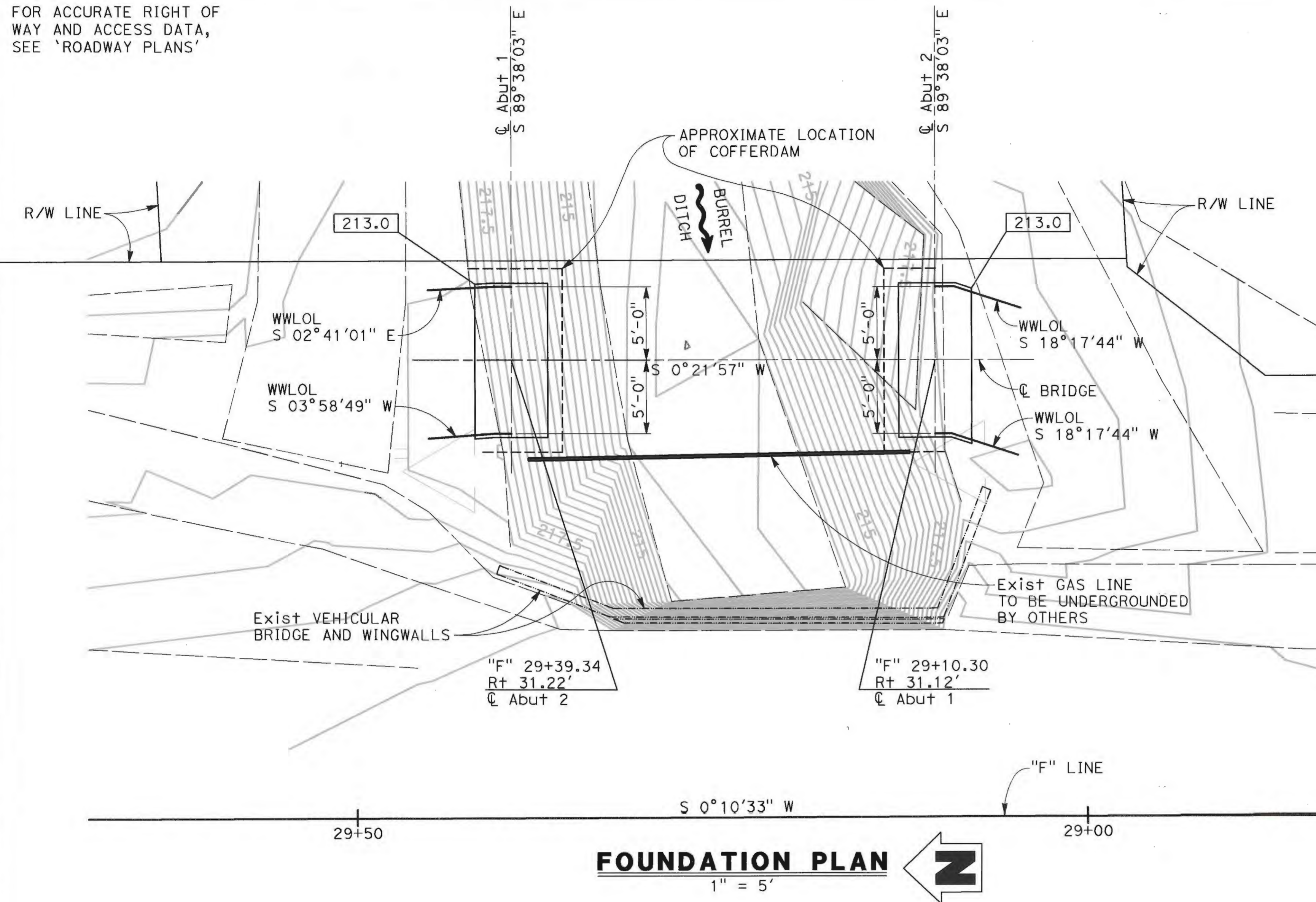
- LEGEND:**
- Indicates Existing Structure
  - Indicates Traffic Direction
  - B7-11 Indicates Standard Plans sheet No.
  - U42 Indicates Detail No.
  - A Indicates Section No.
  - S5 Indicates sheet No. shown on
  - 1 Indicates Detail No.
  - S6 Indicates sheet No. shown on

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

<table border="1"> <thead> <tr> <th>DESIGNED:</th> <th>DATE</th> <th>RECORD DRAWING</th> <th>SCALE</th> </tr> </thead> <tbody> <tr> <td>R. SANGUINETTI</td> <td>05/12/2017</td> <td>RESIDENT ENGINEER</td> <td>AS SHOWN</td> </tr> <tr> <td>D. MANCINI</td> <td>05/12/2017</td> <td></td> <td></td> </tr> <tr> <td>A. RICHARDSON</td> <td>05/12/2017</td> <td></td> <td></td> </tr> </tbody> </table>		DESIGNED:	DATE	RECORD DRAWING	SCALE	R. SANGUINETTI	05/12/2017	RESIDENT ENGINEER	AS SHOWN	D. MANCINI	05/12/2017			A. RICHARDSON	05/12/2017			<p><b>BIGGS CARDOSA ASSOCIATES INC</b> STRUCTURAL ENGINEERS</p> <p>5250 N. Palm Avenue, Suite 211 Fresno, California 93704 559-449-8686</p>	<p><b>PROJECT</b></p> <p>RIVERDALE PEDESTRIAN IMPROVEMENTS VARIOUS LOCATIONS IN RIVERDALE</p>	<p><b>DEPARTMENT OF PUBLIC WORKS AND PLANNING</b></p> <p><b>GENERAL PLAN</b></p>
DESIGNED:	DATE	RECORD DRAWING	SCALE																	
R. SANGUINETTI	05/12/2017	RESIDENT ENGINEER	AS SHOWN																	
D. MANCINI	05/12/2017																			
A. RICHARDSON	05/12/2017																			
<p>FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.</p>		<p>5250 N. Palm Avenue, Suite 211 Fresno, California 93704 559-449-8686</p>	<p>ROAD NO. N/A</p> <p>BRIDGE NO. 05-135</p>	<p>DRAWING NO. 11253</p> <p>SHEET NO. 10</p> <p>TOTAL 18</p>																

201627851

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, SEE 'ROADWAY PLANS'



**FOUNDATION PLAN**  
1" = 5'

**GENERAL NOTES**  
**LOAD & RESISTANCE FACTOR DESIGN**

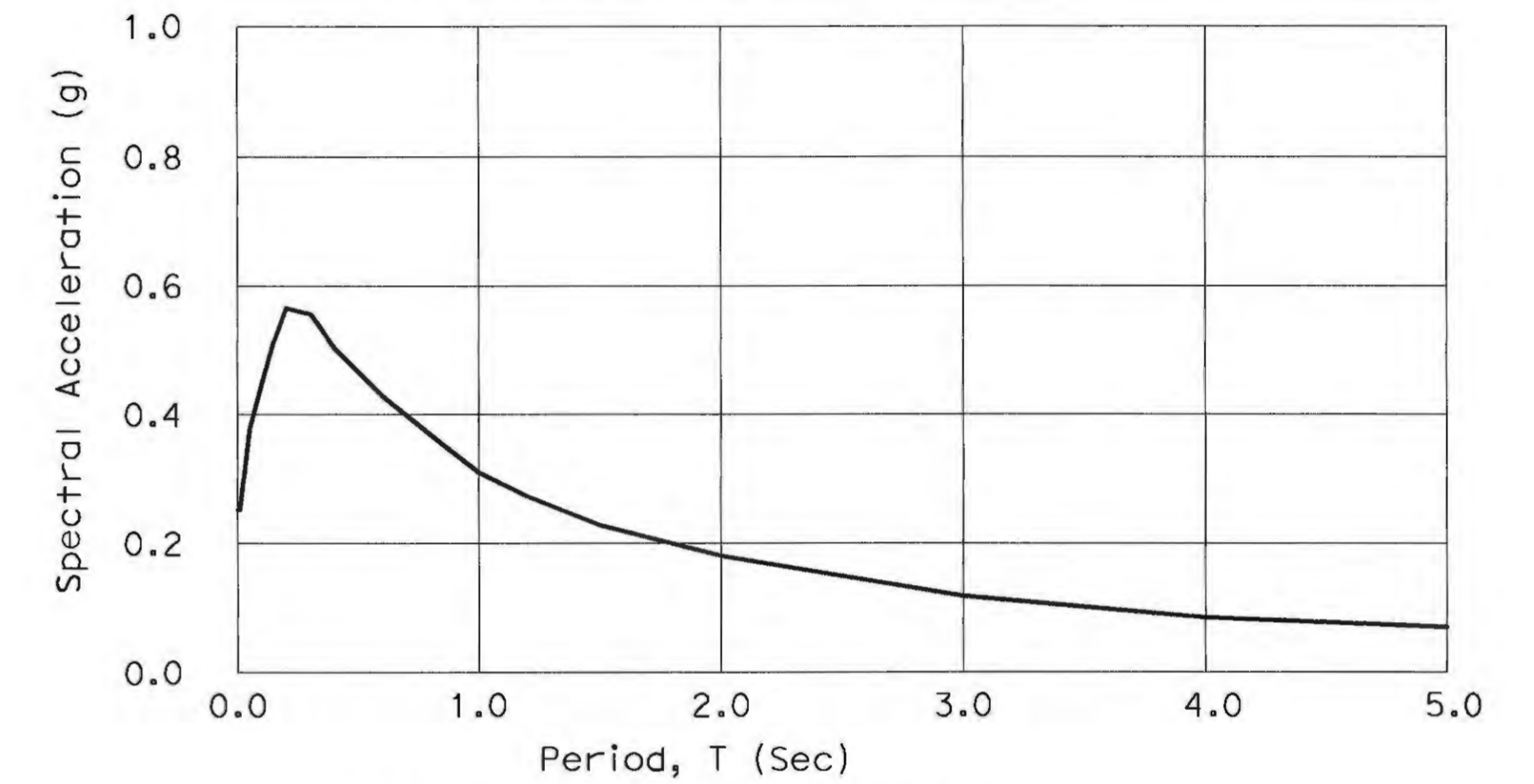
DESIGN: AASHTO LRFD Bridge Design Specifications, 6th Edition and California Amendments, preface dated January 2014, and supplemented by LRFD Guide Specifications for the Design of Pedestrian Bridges dated December 2009

SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC) Version 1.7 supplemented by the Caltrans Guide Specification for Seismic Design of Steel Bridges, First Edition

DEAD LOAD: Self weight

LIVE LOAD: 90 psf pedestrian load and H10 maintenance vehicle

SEISMIC LOAD: Soil profile: D, Vs30 = 270 m/s  
Moment magnitude: m 7.9  
Peak ground acceleration: 0.22g



**ARS DESIGN CURVE**  
NO SCALE

CONCRETE:  $f_y = 60$  ksi  
 $f'_c = 36$  ksi

NOTES:  
1. Verify utility locations with "ROADWAY PLANS".

LEGEND:  
213.0 Indicates bottom of footing elevation  
29.6 Indicates spot elevation

HYDROLOGIC SUMMARY

(PROVIDED BY COUNTY OF FRESNO)

DRAINAGE AREA: N/A IRRIGATION CANAL DESIGN FLOW

FREQUENCY (YEARS) CONTROLLED FLOW

DISCHARGE (CUBIC FEET PER SECOND) 220 CFS

WATER SURFACE (ELEVATION AT BRIDGE) 218.0

DESIGN FLOW DATA ARE BASED UPON INFORMATION AVAILABLE WHEN THE PLANS WERE PREPARED AND ARE SHOWN TO MEET FEDERAL REQUIREMENTS. THE ACCURACY OF SAID INFORMATION IS NOT WARRANTED BY BIGGS CARDOSA ASSOCIATES AND INTERESTED OR AFFECTED PARTIES SHOULD MAKE THEIR OWN INVESTIGATION.

SPREAD FOOTING DATA TABLE			
SUPPORT LOCATION	SERVICE (SETTLEMENT)	STRENGTH/CONSTRUCTION $\phi_b = X$	EXTREME EVENT $\phi_b = 1.00$
	PERMISSIBLE NET CONTACT STRESS (ksf)	FACTORED GROSS NOMINAL BEARING RESISTANCE (ksf)	FACTORED GROSS NOMINAL BEARING RESISTANCE (ksf)
Abut 1	8.0	16.8	N/A
Abut 2	8.0	16.8	N/A

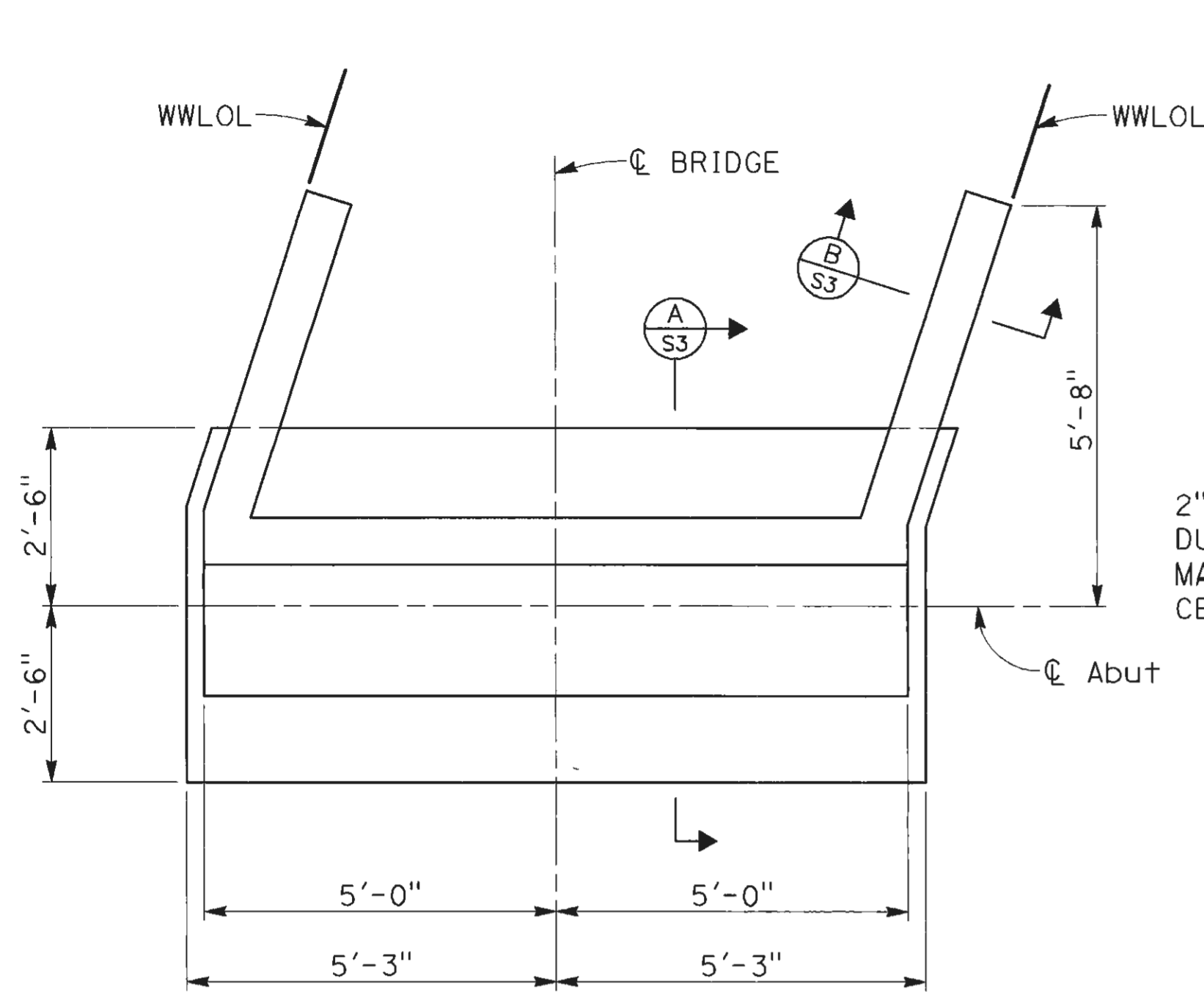
SCOUR DATA TABLE		
SUPPORT No.	LONG TERM (DEGRADATION AND CONTRACTION) SCOUR ELEVATION (ft)	SHORT TERM (LOCAL) SCOUR DEPTH (ft)
ABUTMENT 1	N/A	0
ABUTMENT 2	N/A	0

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

DESIGNED: R. SANGUINETTI	DATE: 05/12/2017	RESIDENT ENGINEER	DATE:	SCALE: AS SHOWN	 5250 N. Palm Avenue, Suite 211 Fresno, California 93704 559-449-8686	PROJECT: RIVERDALE PEDESTRIAN IMPROVEMENTS VARIOUS LOCATIONS IN RIVERDALE		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: D. MANCINI	DATE: 05/12/2017					FOUNDATION PLAN		
CHECKED: A. RICHARDSON	DATE: 05/12/2017					DRAWING NO. 11253 SHEET NO. 11 TOTAL 18		

2016278

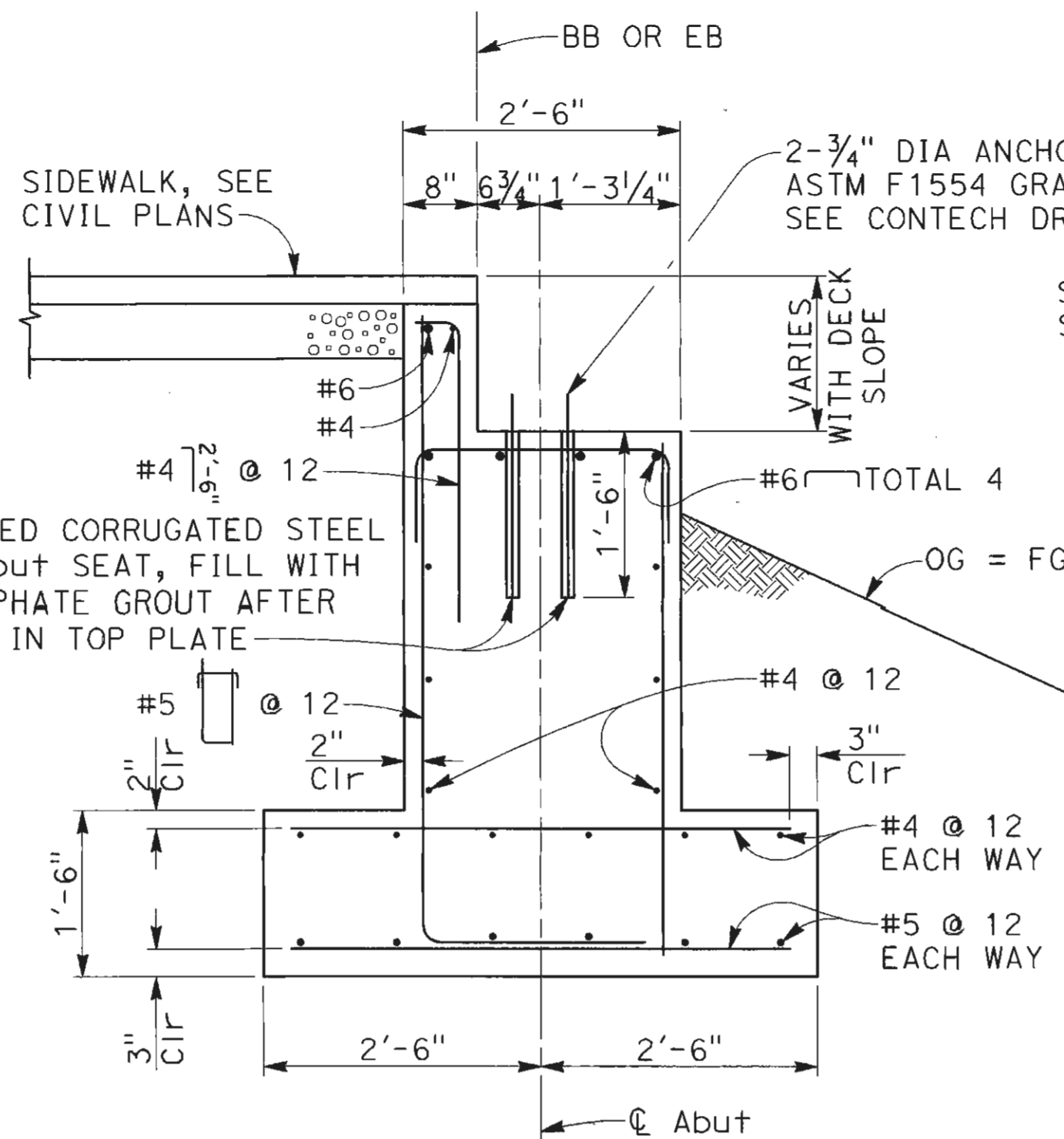
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, SEE 'ROADWAY PLANS'



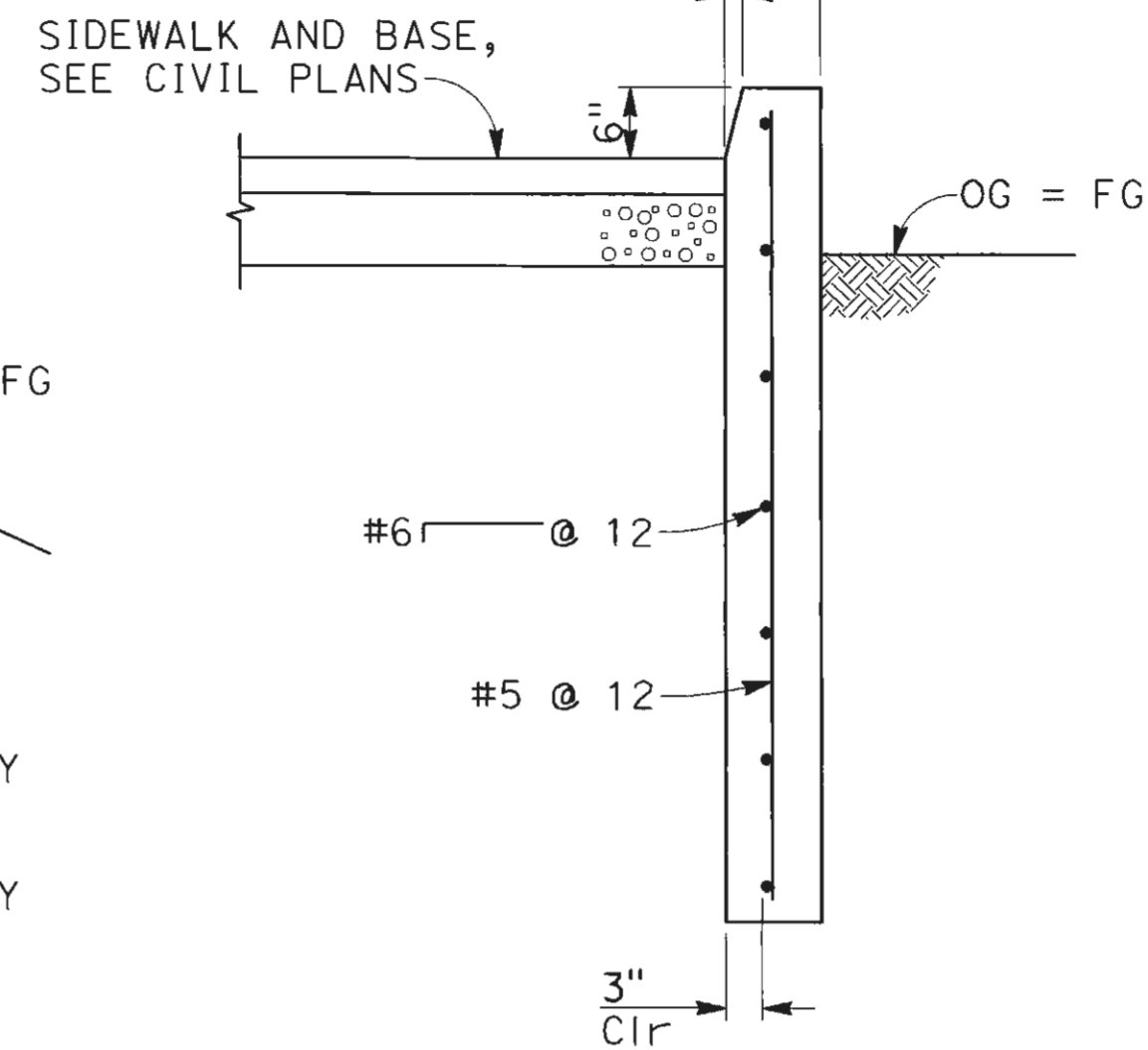
Note:  
Abut 1 shown  
Abut 2 similar

**ABUTMENT FOOTING PLAN**

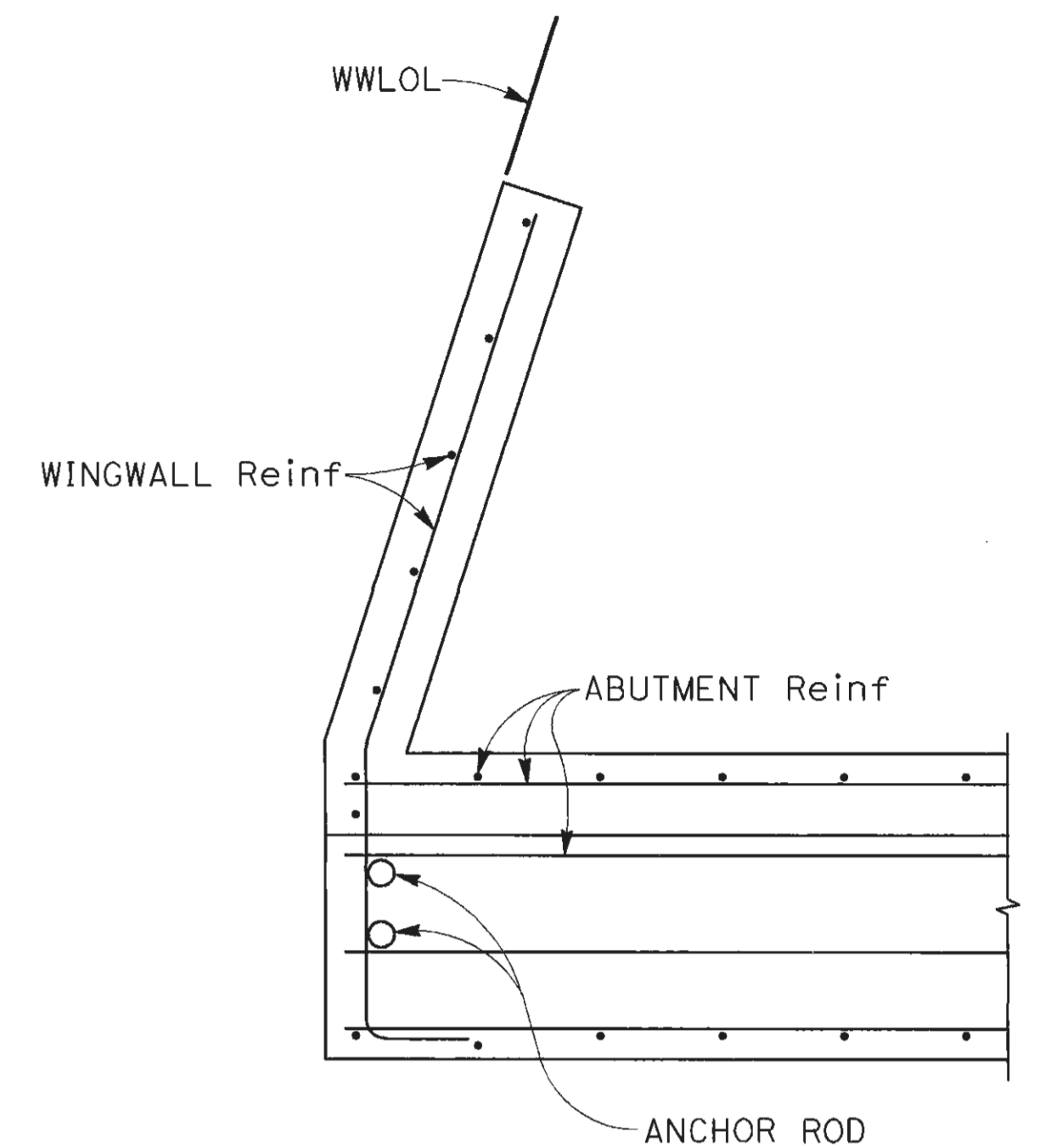
1/2" = 1'-0"



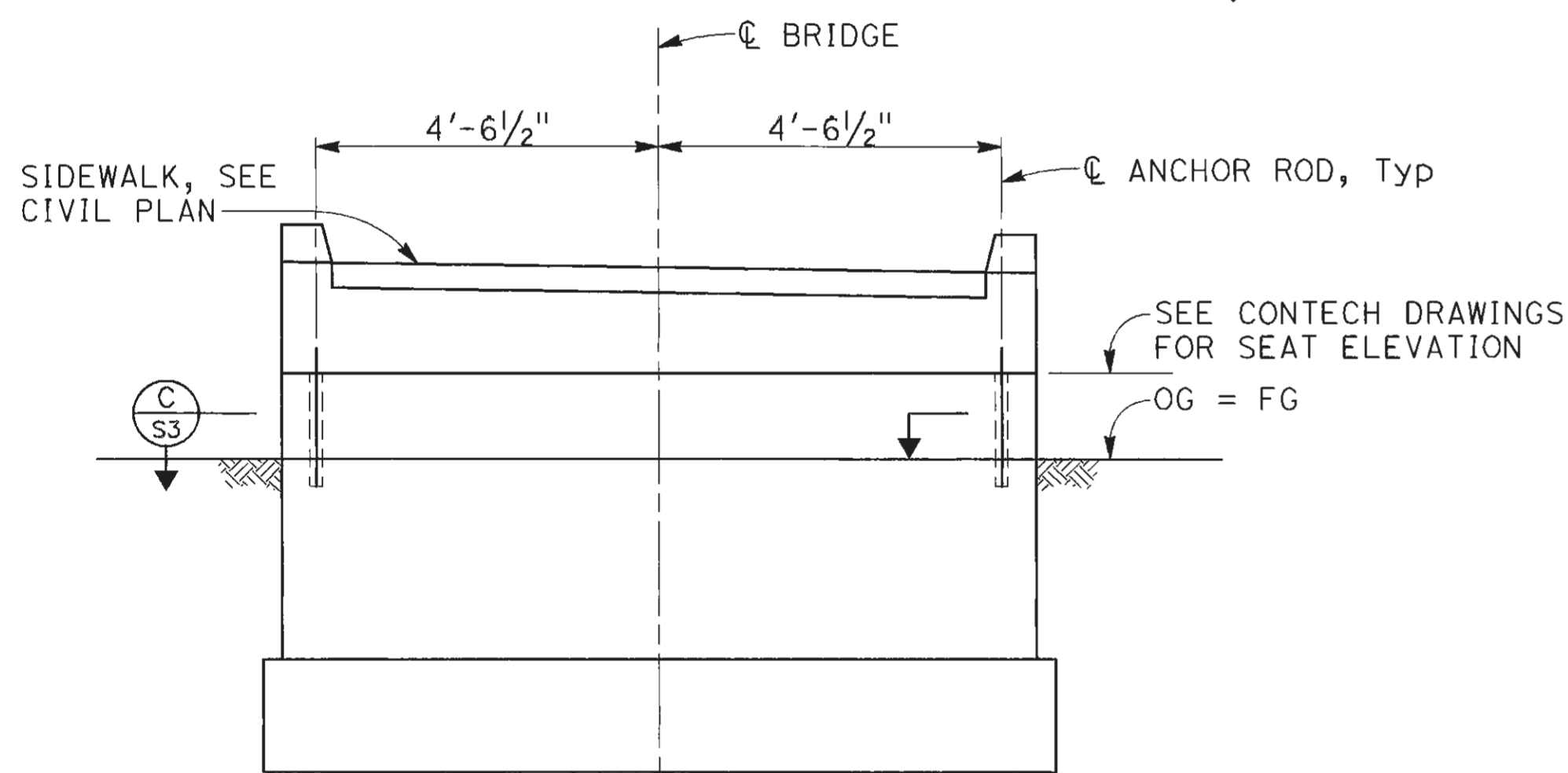
**SECTION A**  
3/4" = 1'-0"



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

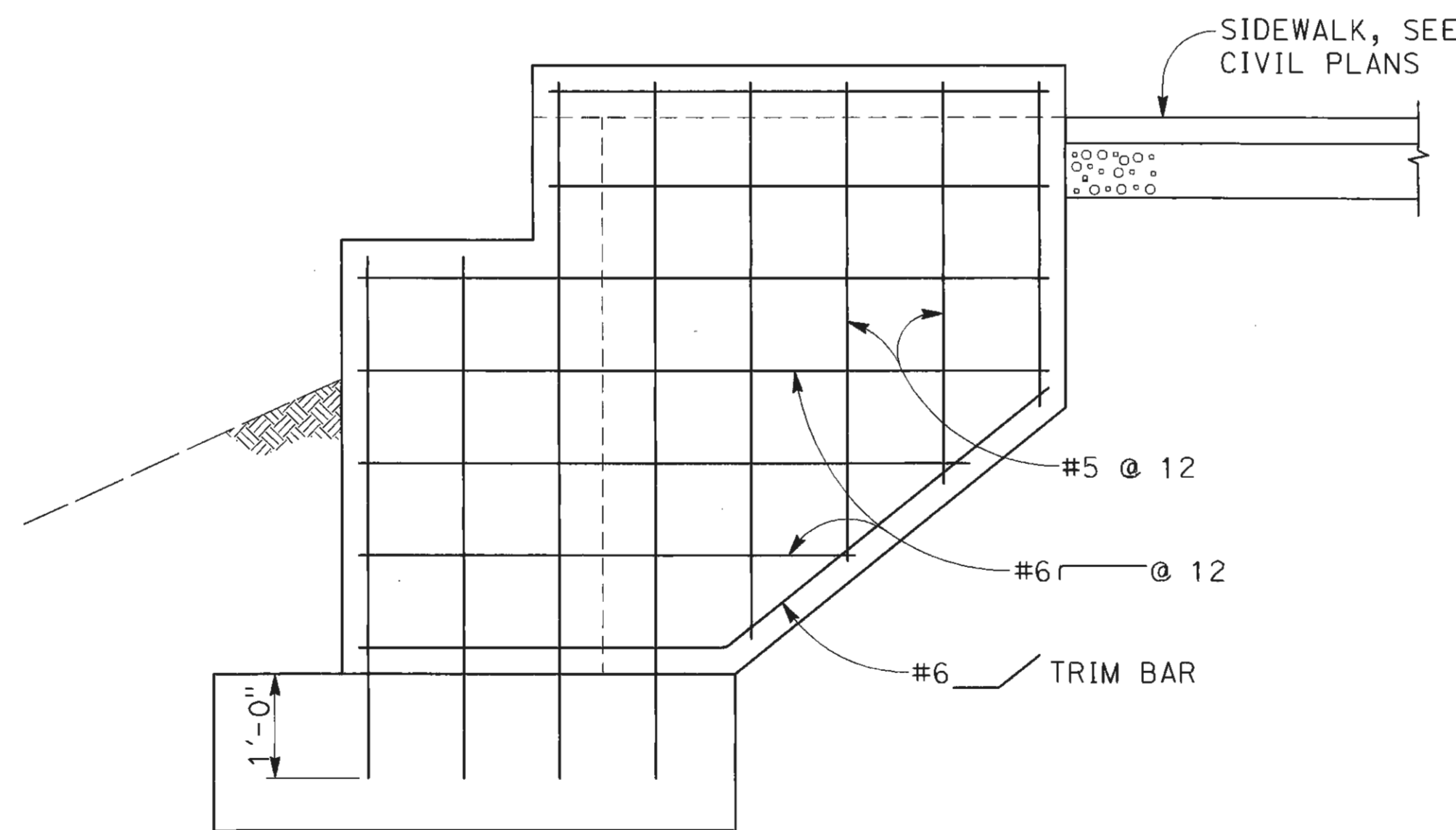


**SECTION C**  
3/4" = 1'-0"



**ABUTMENT ELEVATION**

1/2" = 1'-0"



**ABUTMENT WINGWALL ELEVATION**

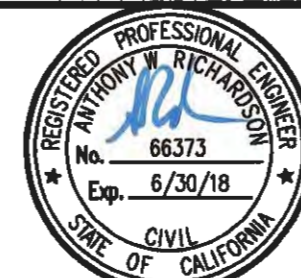
3/4" = 1'-0"

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

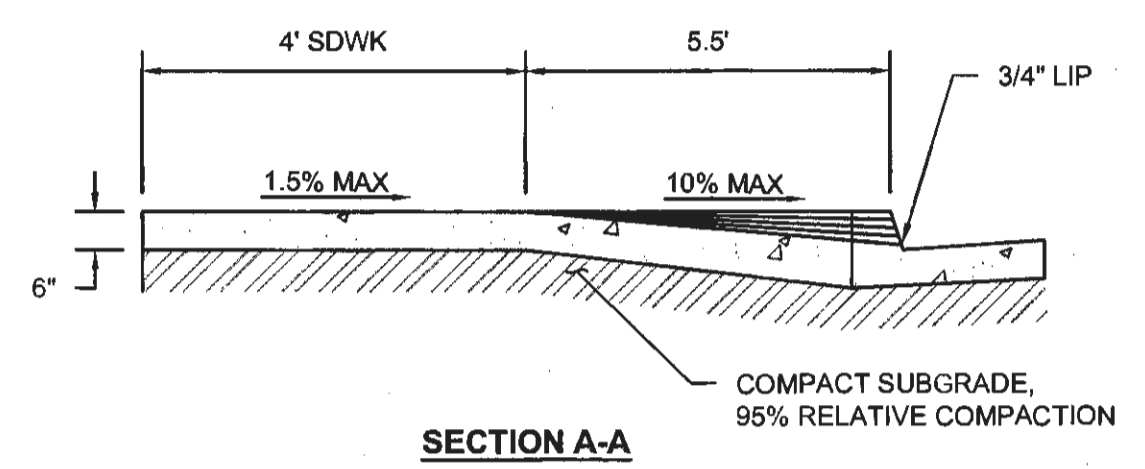
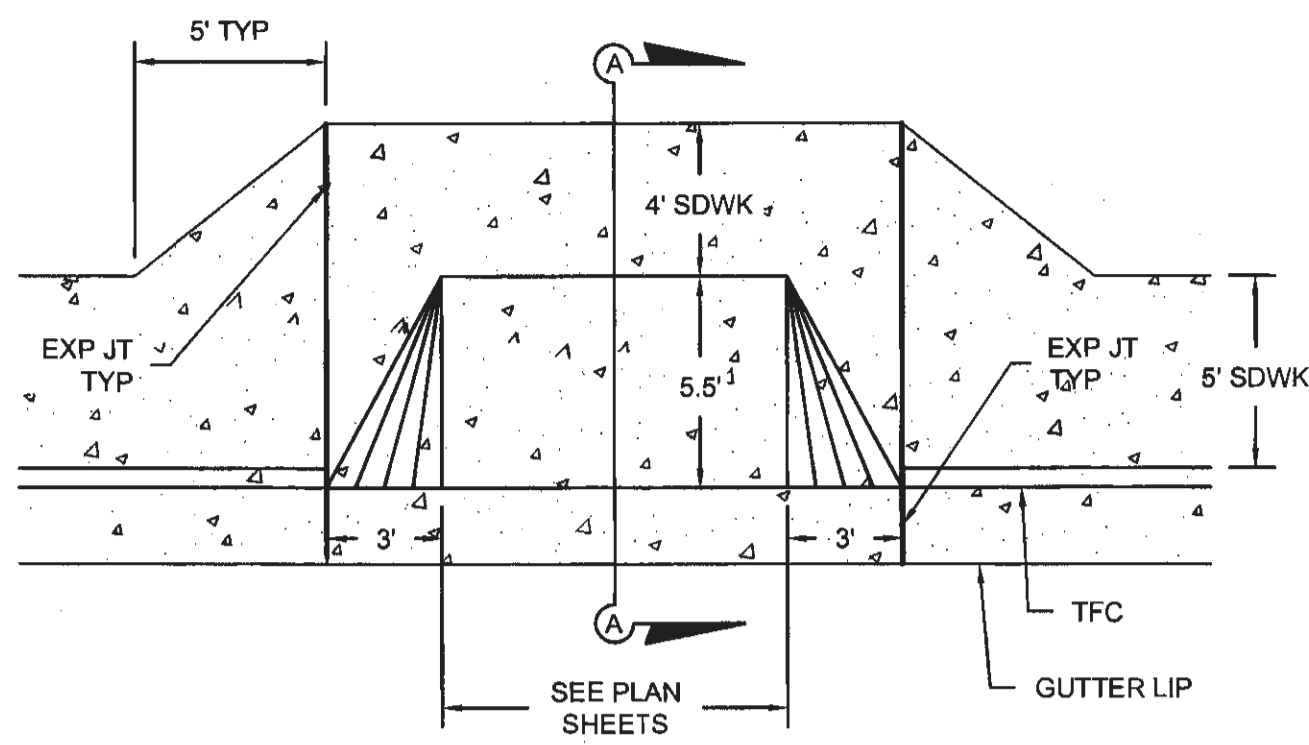
DATE		RECORD DRAWING		SCALE		PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING	
DESIGNED: R. SANGUINETTI	05/12/2017	RESIDENT ENGINEER	DATE	AS SHOWN		RIVERDALE PEDESTRIAN IMPROVEMENTS VARIOUS LOCATIONS IN RIVERDALE		ABUTMENT DETAILS	
DRAWN: D. MANCINI	05/12/2017					ROAD NO. N/A		DRAWING NO. 11253	
CHECKED: A. RICHARDSON	05/12/2017					BRIDGE NO. 05-135		SHEET NO. 12	
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.								TOTAL 18	

**BIGGS CARDOSA ASSOCIATES INC**  
STRUCTURAL ENGINEERS

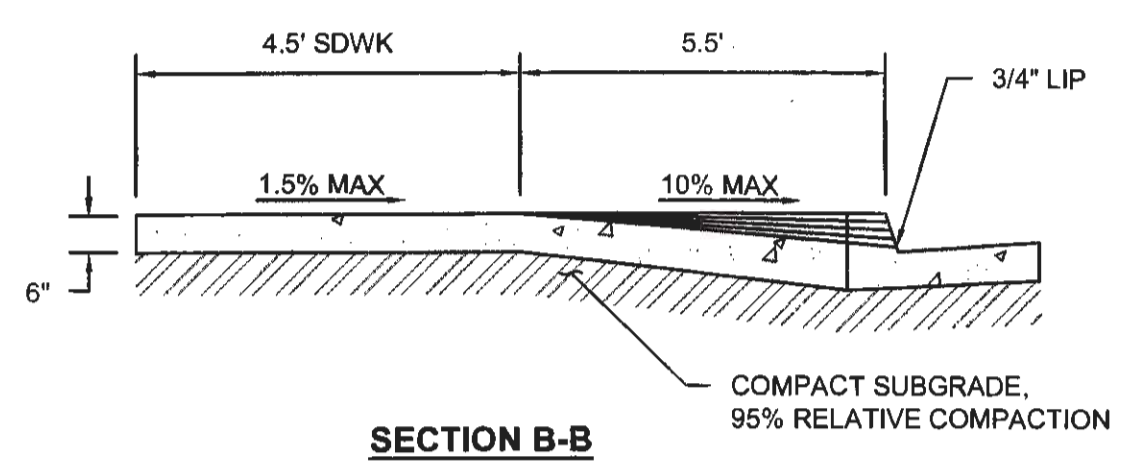
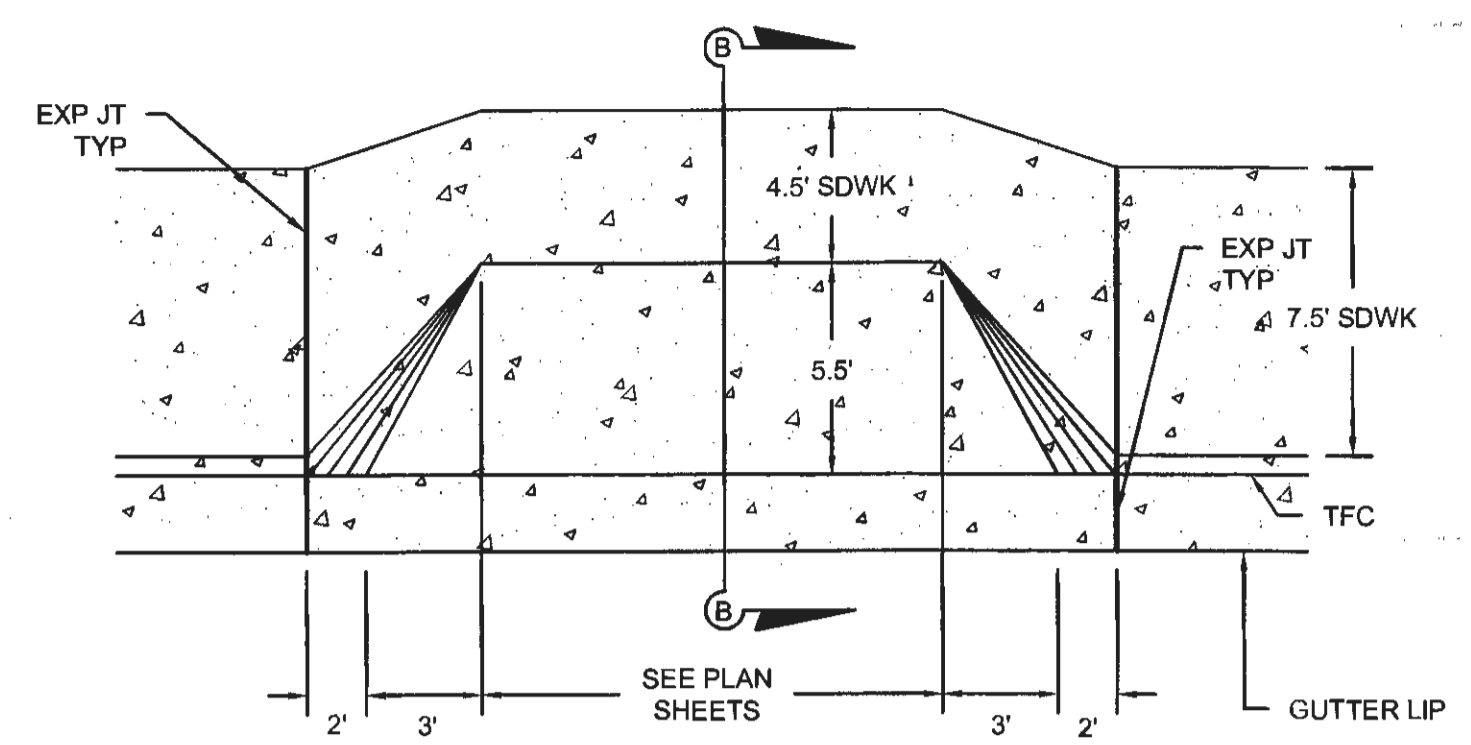
5250 N. Palm Avenue, Suite 211  
Fresno, California 93704  
559-449-8686



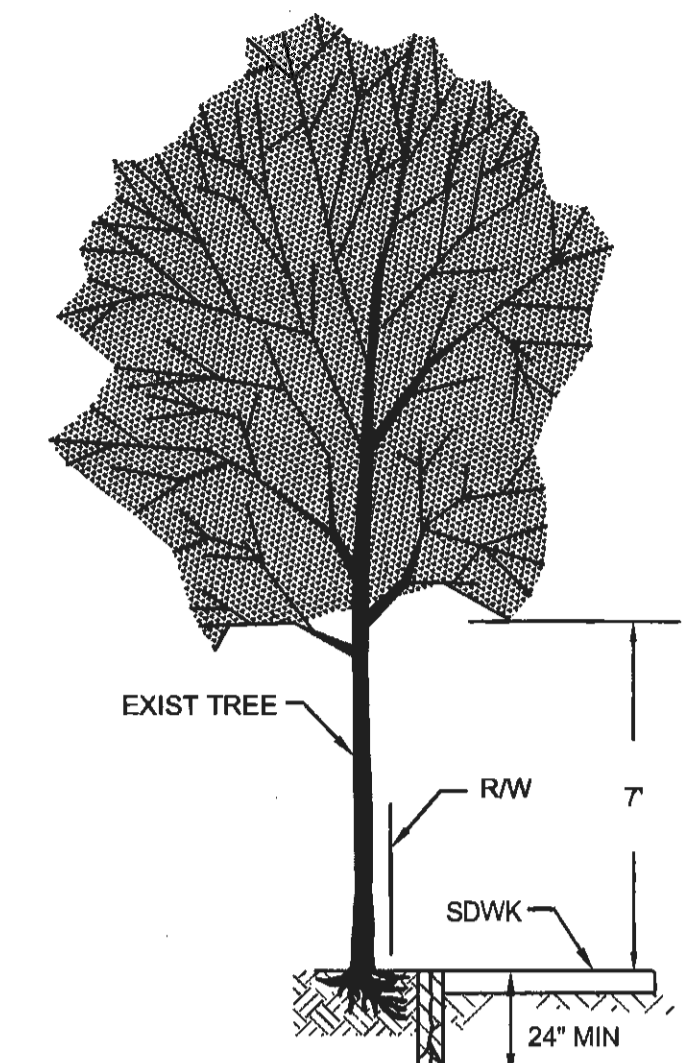
201627853



**1**  
**13** RESIDENTAL DRIVEWAY APPROACH



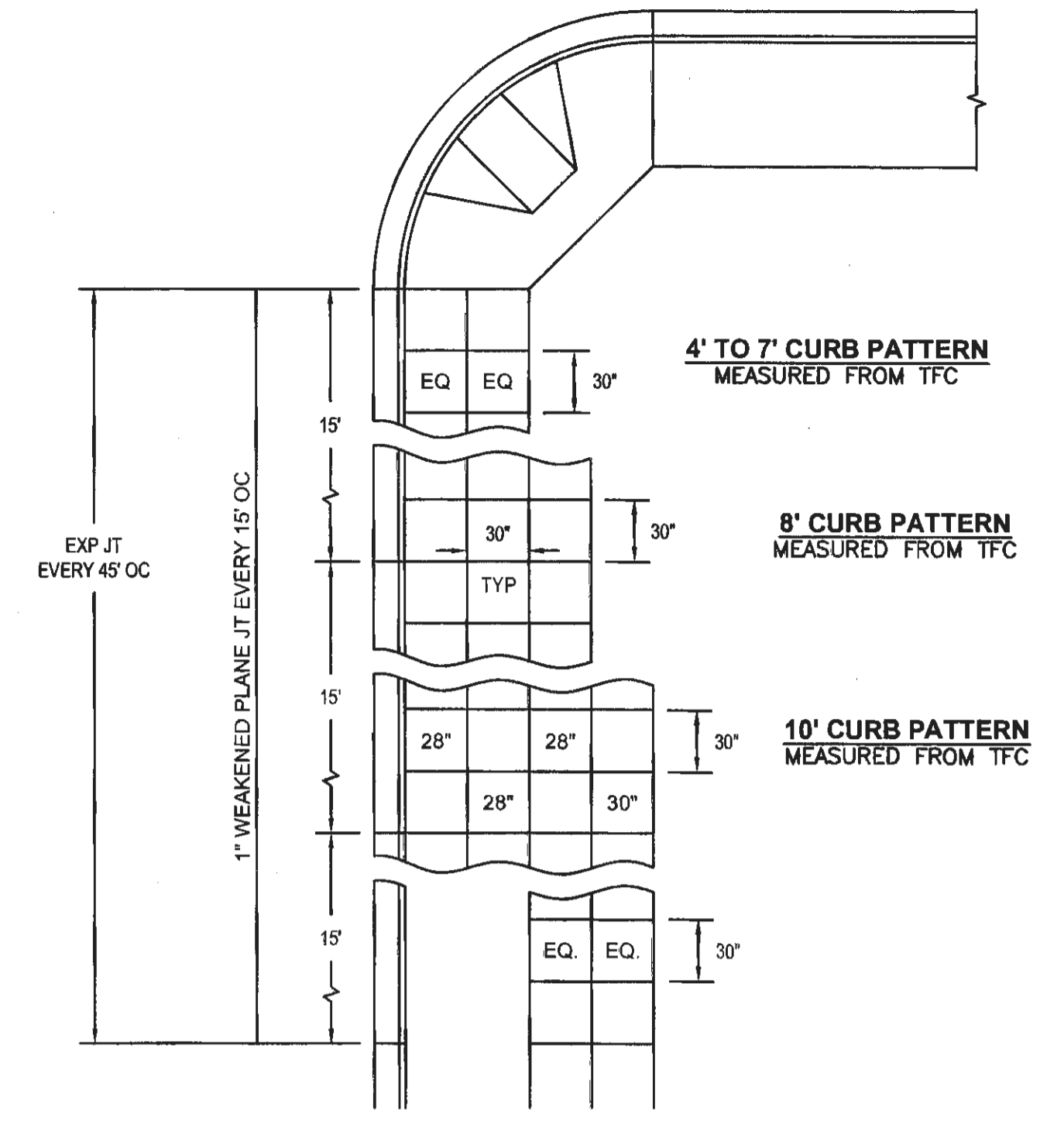
**2**  
**13** COMMERCIAL DRIVEWAY APPROACH



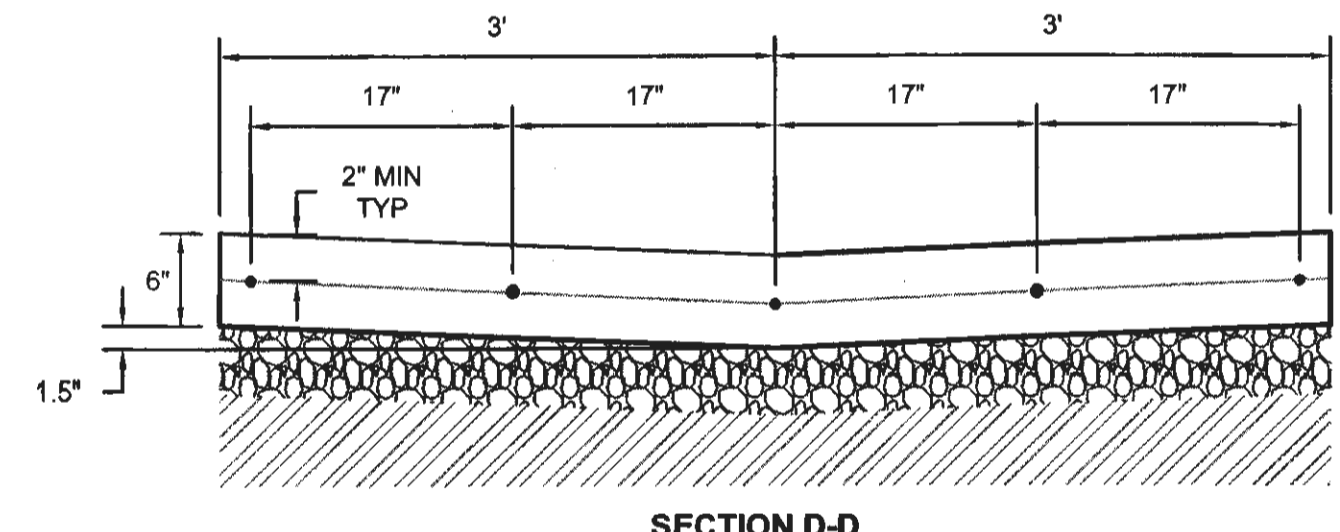
EACH PREFABRICATED ROOT BARRIER TO BE PLACED AT A LENGTH OF 12' CENTERED ON TREE

NOTE: CLR & GRUB INCLUDES TRIMMING TREES

**ROOT BARRIER DETAIL**

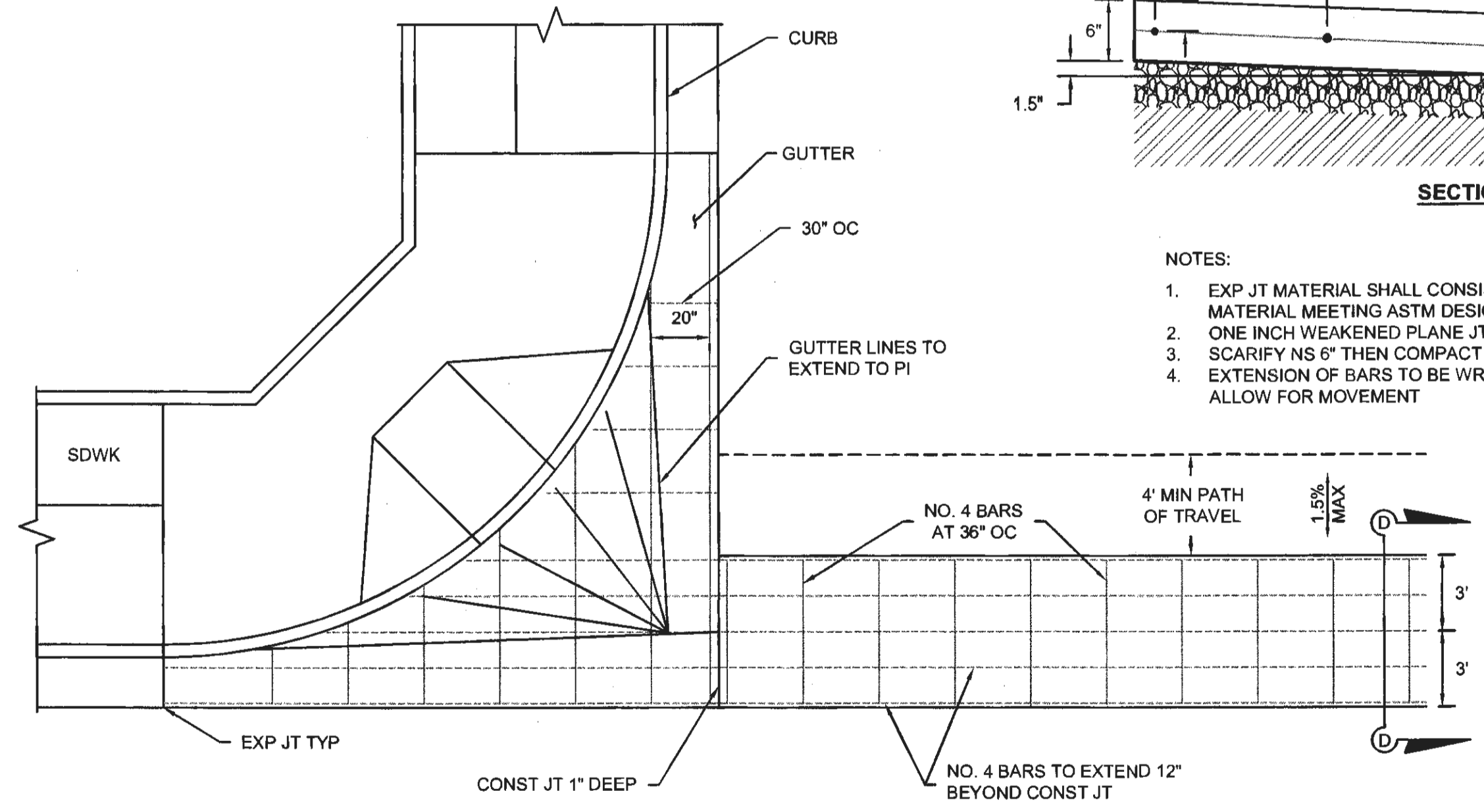


**CURB PATTERNS**

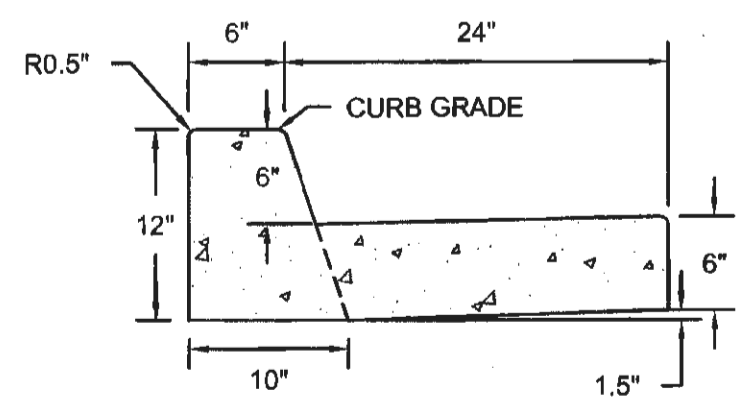


**SECTION D-D**

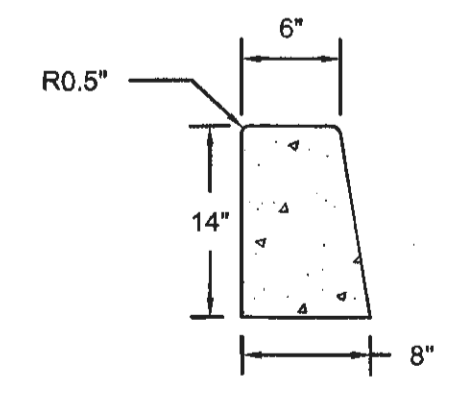
- NOTES:
1. EXP JT MATERIAL SHALL CONSIST OF 1/4" THICK PREMOLDED JT MATERIAL MEETING ASTM DESIGNATION D-1751.
  2. ONE INCH WEAKENED PLANE JT SHALL BE EVERY 8' OC.
  3. SCARIFY NS 6" THEN COMPACT TO 95% RELATIVE COMPACTION
  4. EXTENSION OF BARS TO BE WRAPPED WITH A KRAFT TYPE PAPER TO ALLOW FOR MOVEMENT



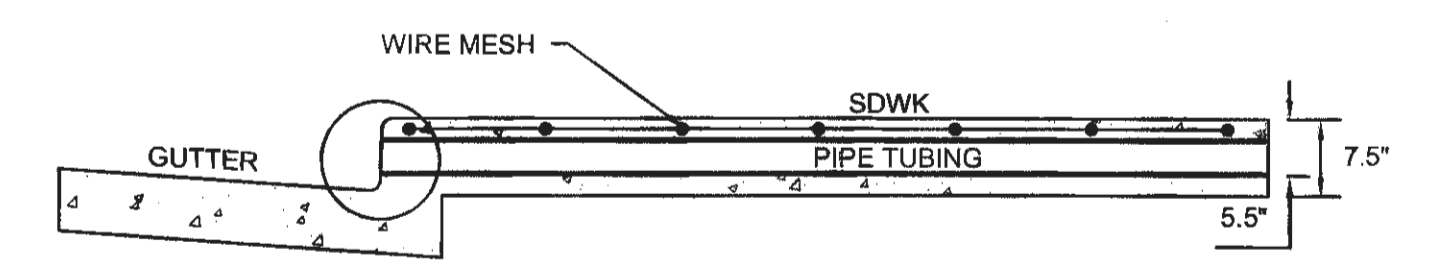
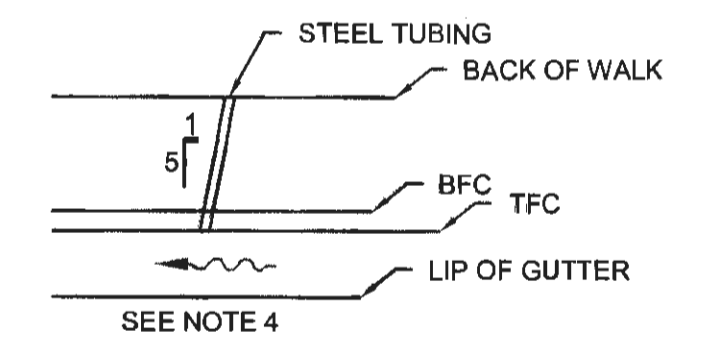
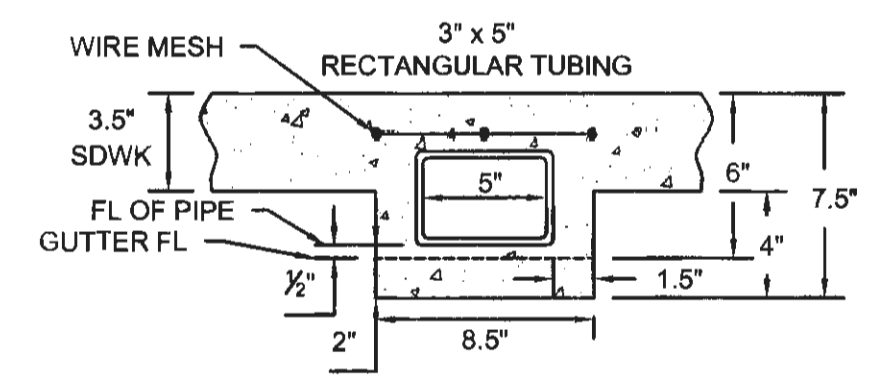
**3**  
**13** VALLEY GUTTER



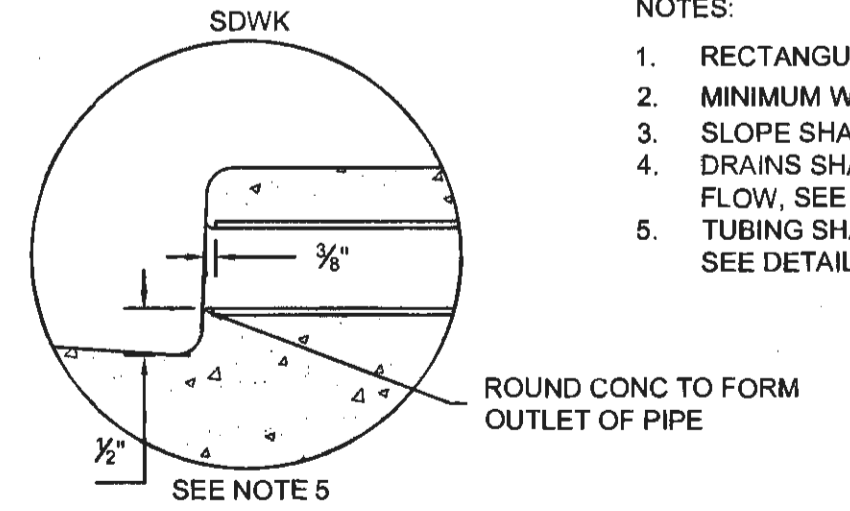
**CURB & GUTTER - TYPE A**



**CURB & GUTTER**

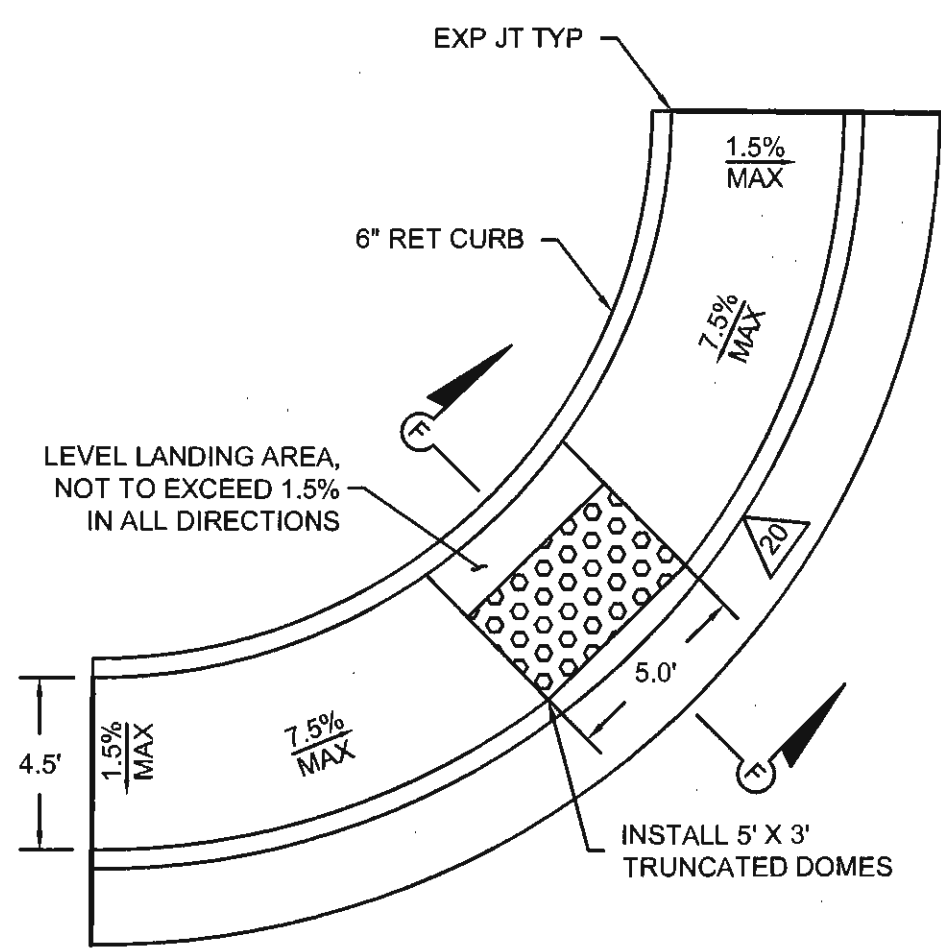


- NOTES:
1. RECTANGULAR TUBING SHALL BE STEEL.
  2. MINIMUM WALL THICKNESS OF RECTANGULAR TUBING IS 3/16".
  3. SLOPE SHALL MATCH CROSS GRADE OF SDWK
  4. DRAINS SHALL BE ANGLED THROUGH SDWK IN DIRECTION OF GUTTER FLOW. SEE DETAIL.
  5. TUBING SHALL BE CUT SQUARE AND ROUNDED WITH FACE OF CURB. SEE DETAIL.

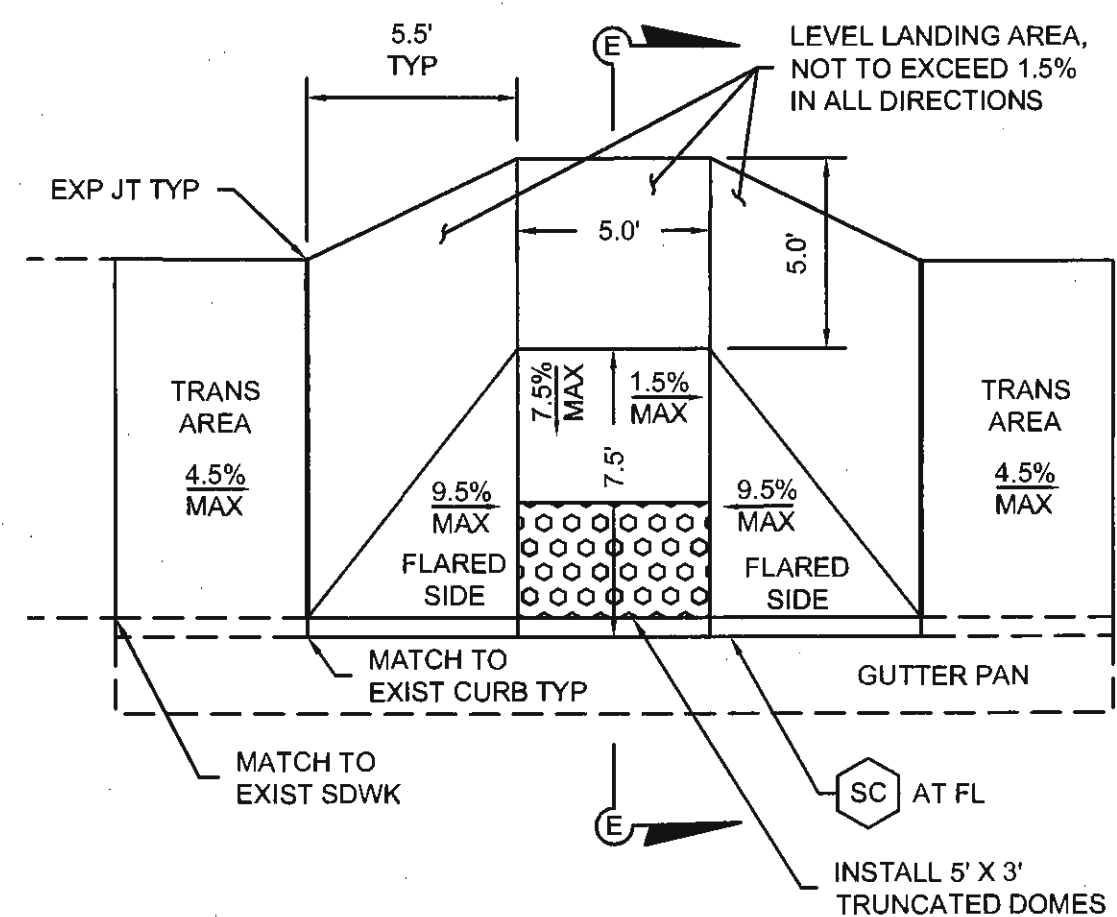


**SIDEWALK DRAIN**

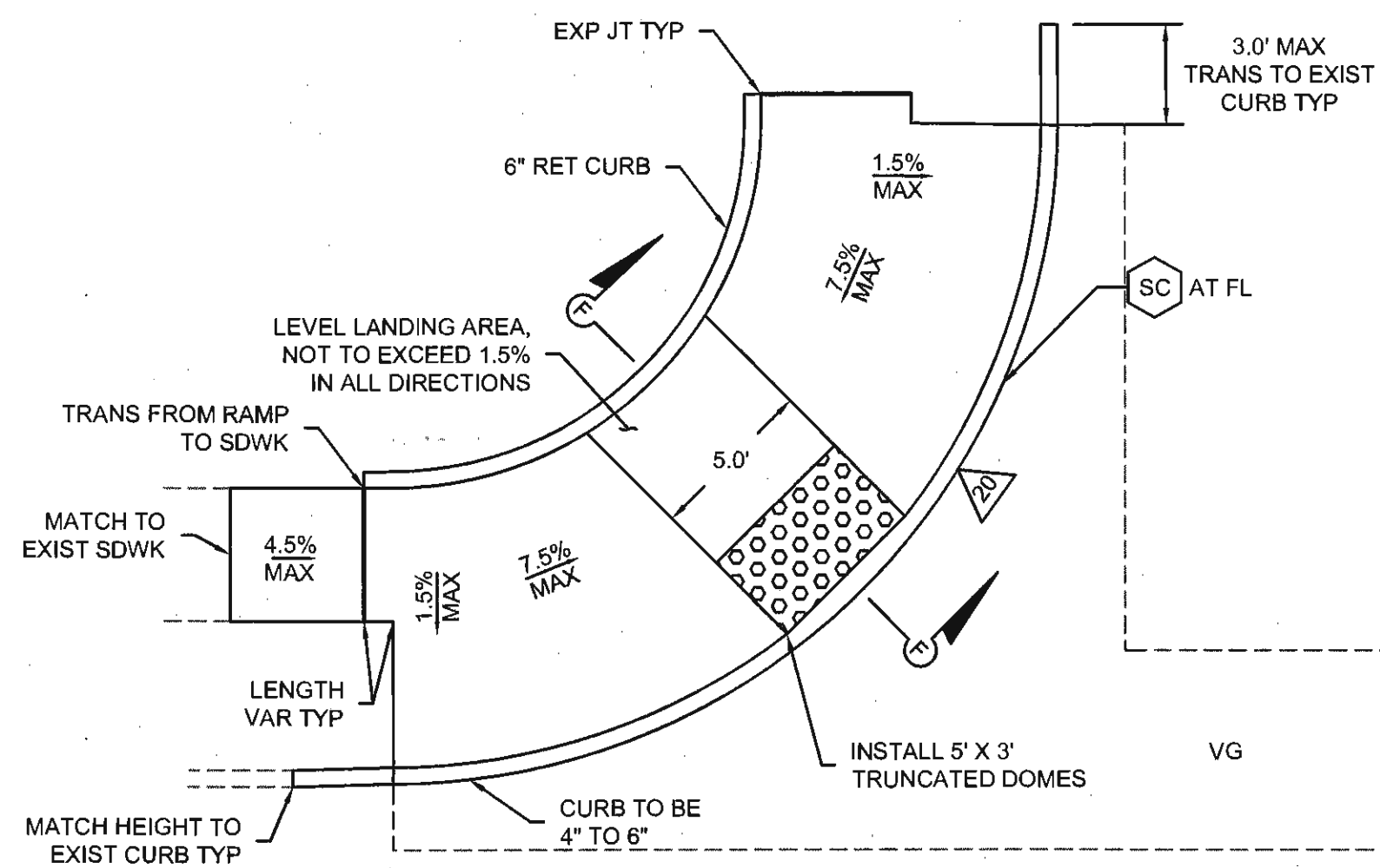
DESIGNED: G. BATH		DATE: 02/06/2017	RECORD DRAWING		SCALE: NOT TO SCALE	 SUPERVISING ENGINEER	8/8/17 DATE	 REGISTERED PROFESSIONAL ENGINEER DALE ALLEN STEVENS No. 59670 Exp. 12/31/17 CIVIL STATE OF CALIFORNIA	PROJECT: RIVERDALE PEDESTRIAN IMPROVEMENTS	 DEPARTMENT OF PUBLIC WORKS AND PLANNING		
DRAWN: G. BATH		DATE: 02/06/2017	RESIDENT ENGINEER									VARIOUS LOCATIONS IN RIVERDALE
CHECKED: J. GARCIA		DATE: 03/14/2017	DATE									ROAD NO. N/A BRIDGE NO. N/A
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.												
								DRAWING NO. 11253 SHEET NO. 13 TOTAL 18				



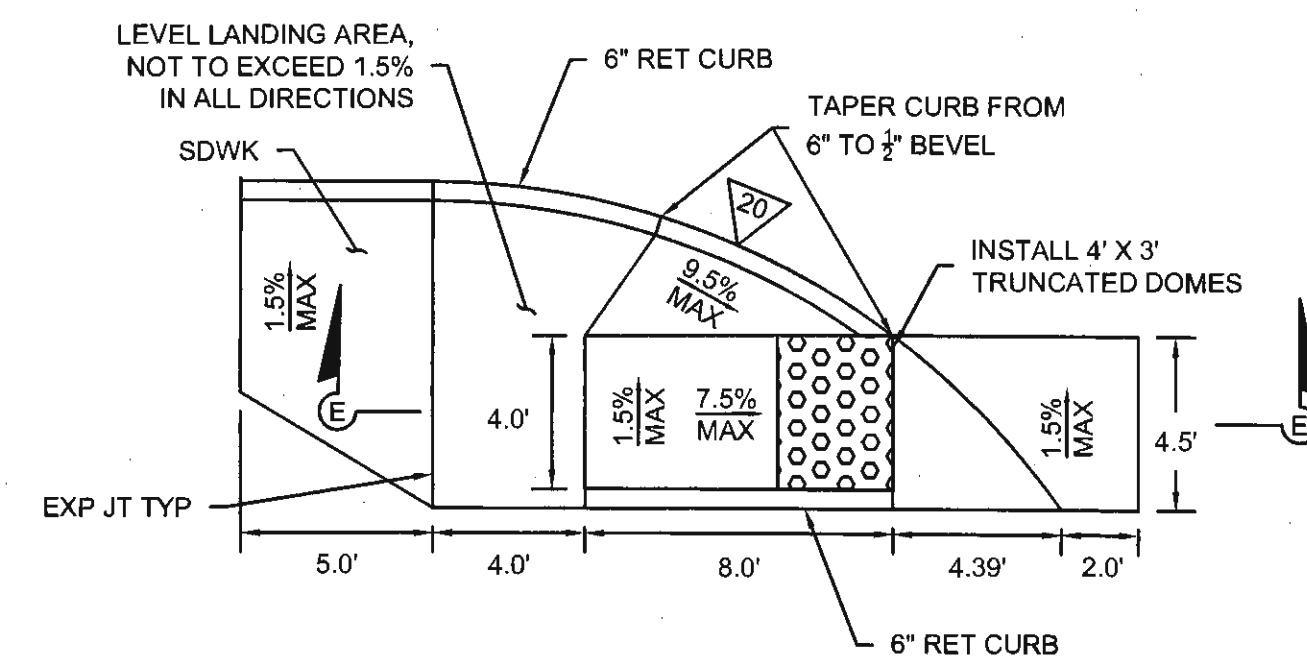
**4** MODIFIED CURB RAMP DETAIL  
**14**



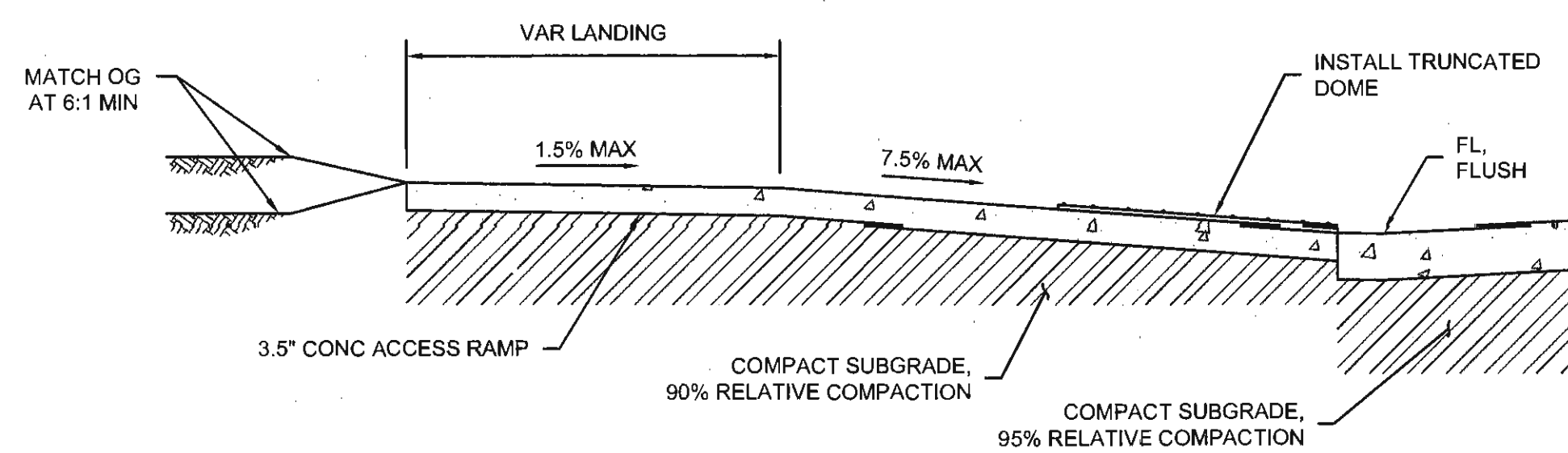
**5** MODIFIED CURB RAMP DETAIL  
**14**



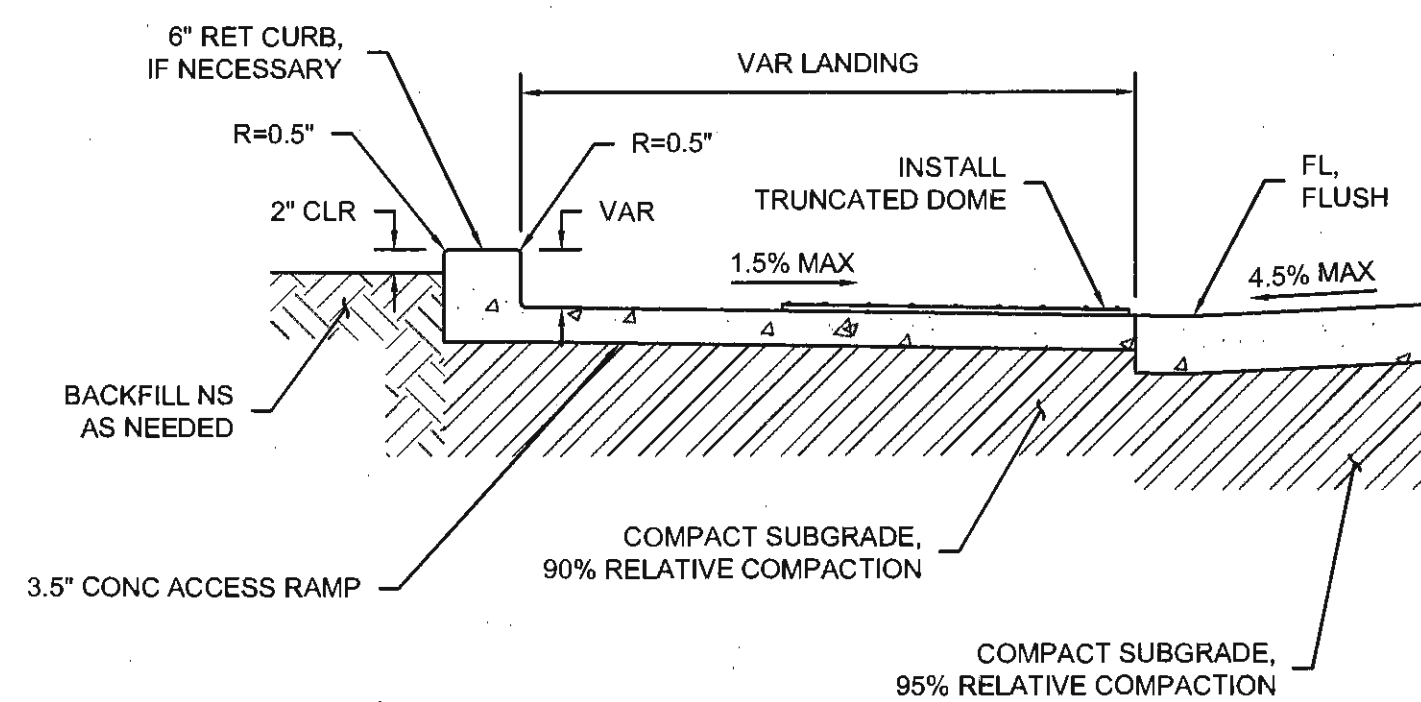
**6** MODIFIED CURB RAMP DETAIL  
**14**



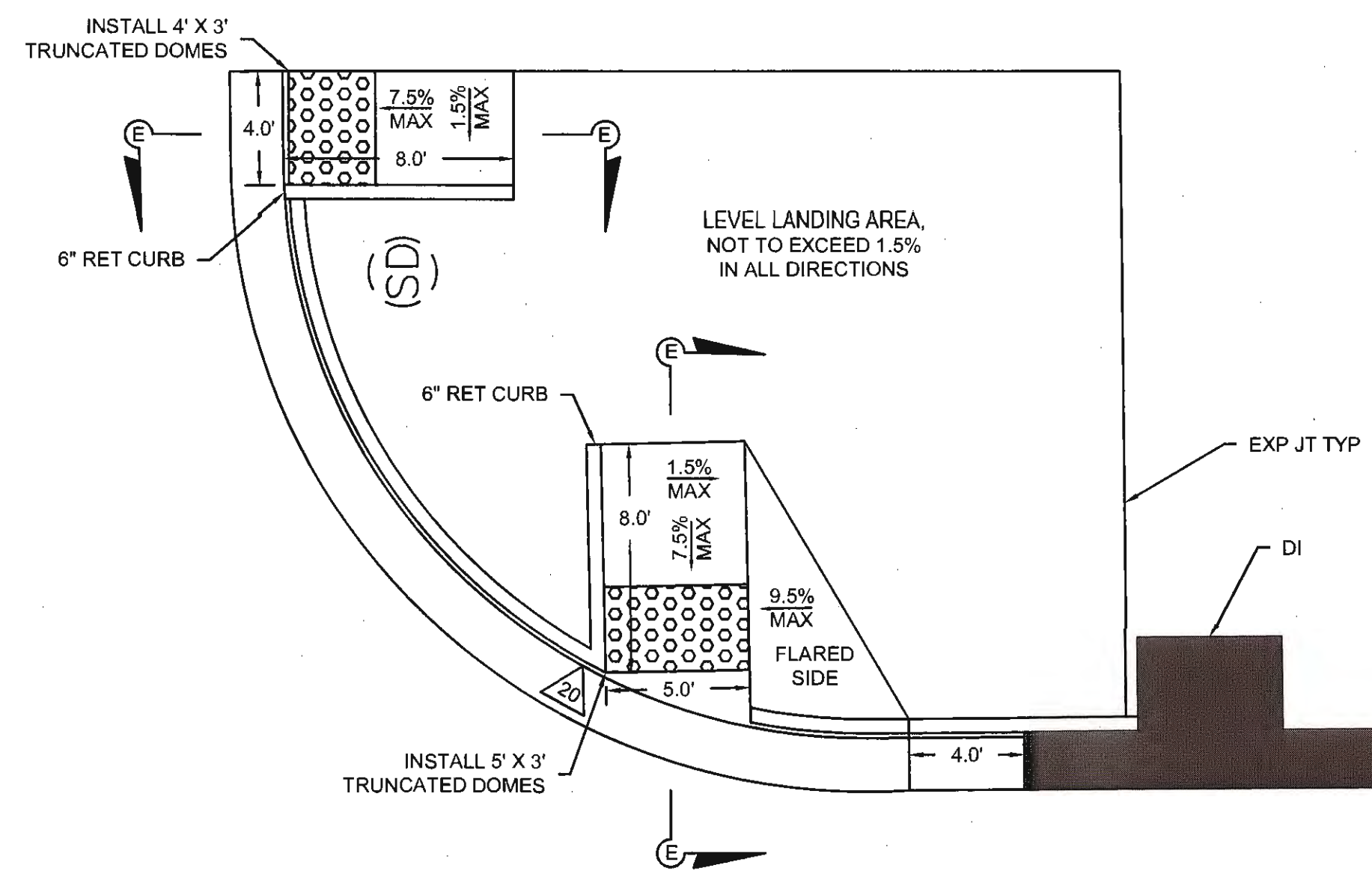
**7** MODIFIED CURB RAMP DETAIL  
**14**



**SECTION E-E**



**SECTION F-F**



**8** MODIFIED CURB RAMP DETAIL  
**14**

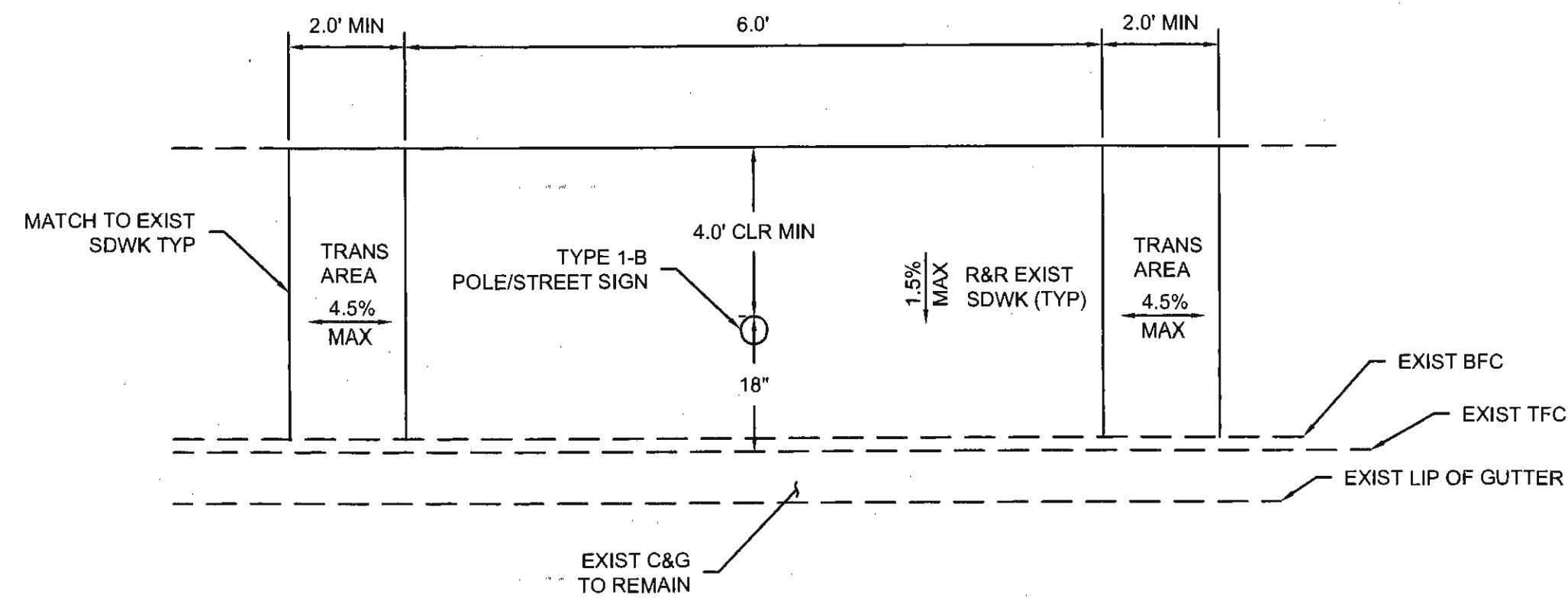
DESIGNED: G. BATH	DATE: 02/06/2017	RECORD DRAWING		SCALE: NOT TO SCALE		PROJECT: RIVERDALE PEDESTRIAN IMPROVEMENTS		DEPARTMENT OF PUBLIC WORKS AND PLANNING
DRAWN: G. BATH	DATE: 02/06/2017	RESIDENT ENGINEER	DATE:	VARIOUS LOCATIONS IN RIVERDALE		CONSTRUCTION DETAILS		
CHECKED: J. GARCIA	DATE: 03/14/2017			ROAD NO. N/A		BRIDGE NO. N/A		DRAWING NO. 11253

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

**NOTES & LEGEND**

1. WORK SHALL BE DONE IN ACCORDANCE WITH THE 2015 STANDARD PLANS AND SPECIFICATIONS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, SIGN SPECIFICATION SHEETS, THE 2012 CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), AND THE SPECIAL PROVISIONS.
2. THESE SIGNING AND STRIPING PLANS ARE ACCURATE FOR SIGNING AND PAVEMENT MARKINGS ONLY. ALL REFERENCE TO PAVEMENT MARKINGS SHALL INCLUDE STRIPING.
4. ALL EXISTING PAVEMENT MARKING WHICH CONFLICTS WITH PROPOSED PAVEMENT MARKING SHALL BE REMOVED.
5. EXISTING PAVEMENT MARKINGS TO BE REMOVED SHALL BE DONE BY GRINDING, AND THEN SLURRIED PER THE SPECIFICATIONS.
6. LIMIT LINES SHALL BE 12 INCHES IN WIDTH UNLESS INDICATED OTHERWISE.
7. ALL CROSSWALKS SHALL BE 12 FEET WIDE FROM OUTSIDE EDGE.
8. WITH THE EXCEPTION OF BIKE LANE SYMBOLS, ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
9. ALL EXISTING SIGNS NOT SHOWN ON THE PLANS TO REMAIN OR BE RELOCATED SHALL REMAIN, BE SALVAGED, OR RELOCATED AS DIRECTED BY THE ENGINEER.
10. FINAL STREET SIGN LOCATIONS SHALL BE ACCEPTED BY ENGINEER, PRIOR TO INSTALLATION.

- W1-3 INSTALL NEW TRAFFIC SIGN AND POST ASSEMBLY. TEXT INDICATES CA MUTCD SIGN CODE.
- W1-3 REMOVE EXISTING SIGN AND POLE ASSEMBLY & INSTALL NEW TRAFFIC SIGN AND POST ASSEMBLY. TEXT INDICATES CA MUTCD SIGN CODE.



**TYPE 1-B POLE & STREET SIGN PLACEMENT DETAIL IN SDWK**

NOTE: TRANS AREA ONLY APPLICABLE WHERE CONC SDWK EXIST (NOT TO SCALE)

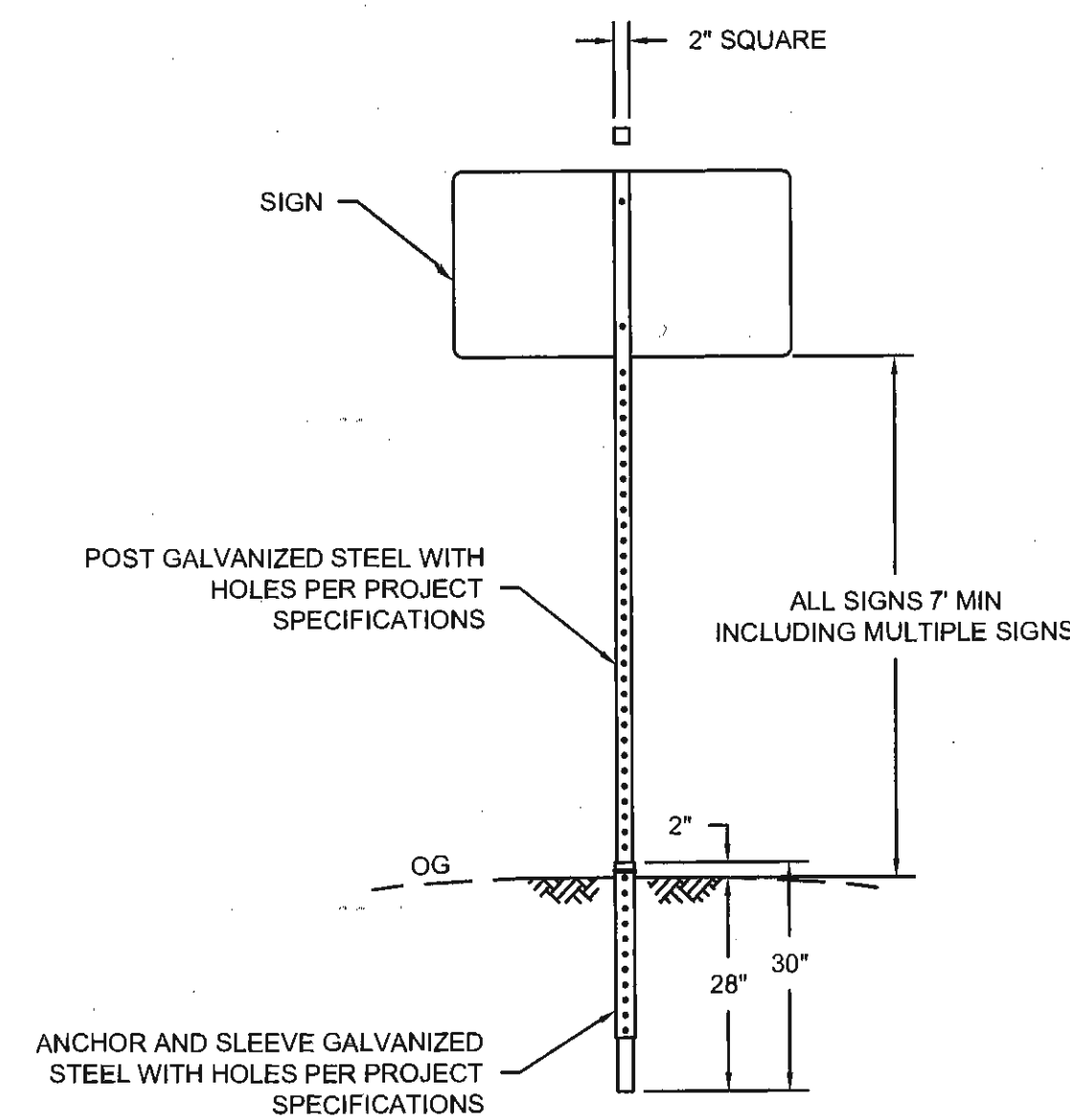
**VEHICLE SPEED FEEDBACK NOTES:**

1. THE SPEED SIGN DIMENSIONS SHALL BE CONSIDERED TO BE PRELIMINARY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH THE MANUFACTURER.
2. MOUNT THE BATTERY BOX TO THE SIDE OF THE POLE IN BACK OF THE RADAR SPEED SIGN PER THE MANUFACTURER'S SPECIFICATIONS. MINIMUM MOUNTING HEIGHT SHALL BE 96" THE BOTTOM OF THE BATTERY BOX.
3. FINAL POLE LOCATION SHALL BE ACCEPTED BY ENGINEER, PRIOR TO CONSTRUCTION.

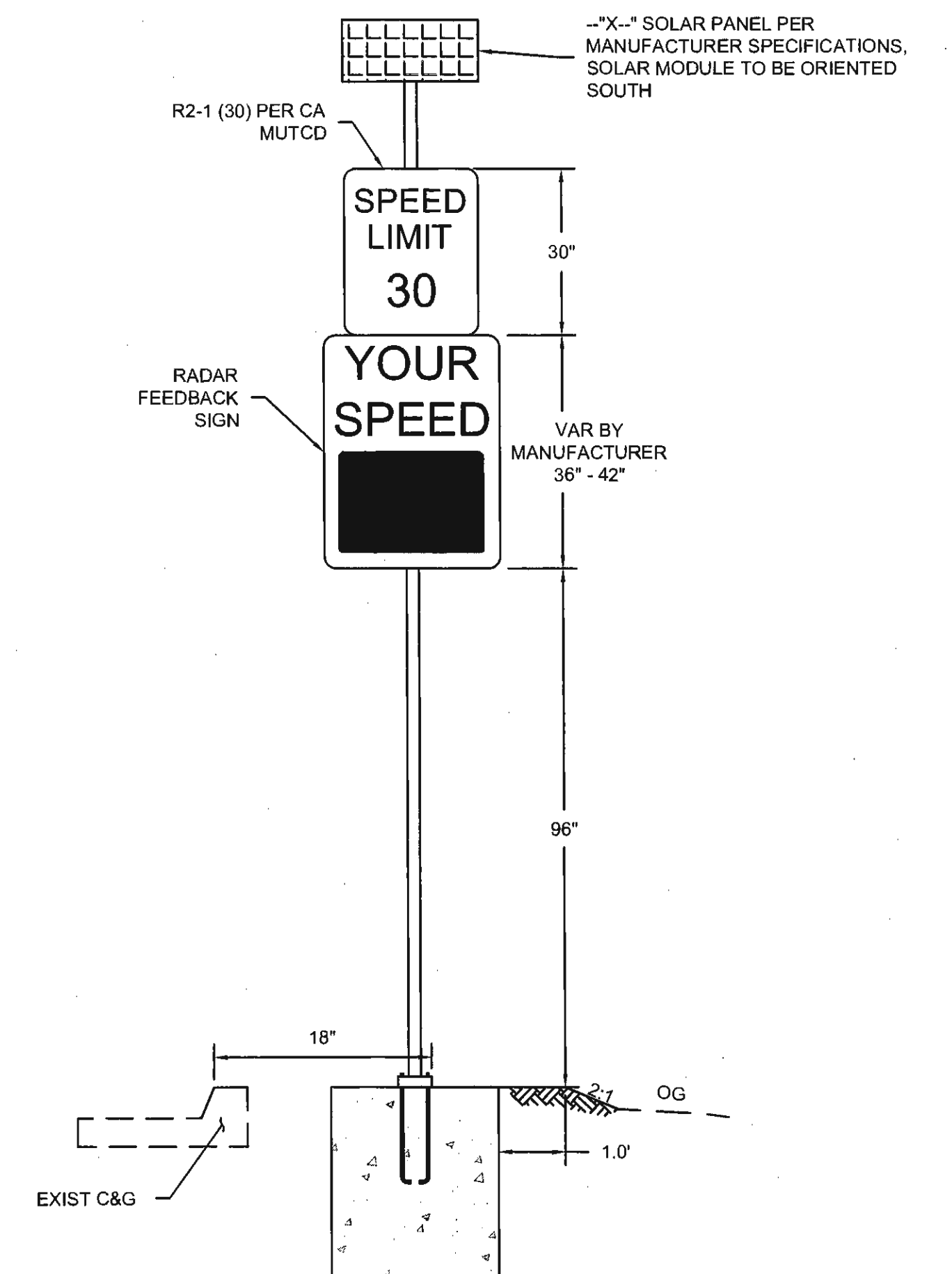
**REQUIRED SIZES FOR ROADSIDE SIGNS**

CA MUTCD CODE	PANEL SIZE (W" x H")	DESCRIPTION	POST LENGTH (FEET)
D3-1	VARIES x 8	STREET NAME SIGN	8
R1-1	30 x 30	STOP SIGN	10
R2-1 (XX)	24 x 30	SPEED LIMIT (SEE PLANS FOR SPEED LIMIT)	10
S1-1	36 x 36	^SCHOOL	12
S4-3P	24 x 8	^SCHOOL	*
W5-2	36 x 36	NARROW BRIDGE	11
W11-1	30 x 30	BICYCLE	12
W16-1P	18 x 24	SHARE THE ROAD	*
W16-7P	24 x 12	^DIAGONAL ARROW	*
TYPE K-1(CA)	12 X 6	OBJECT MARKER (TYPE 2)	*
TYPE L-1(CA)	8 x 24	YELLOW OBJECT MARKER (TYPE 2)	6
TYPE P(CA)	12 x 36	OBJECT MARKER (TYPE 3)	8

- NOTES:
1. \*USE ACCOMPANYING SIGN POST
  2. ^SIGN TO BE FLUORESCENT YELLOW-GREEN
  3. DIMENSION IN INCHES ARE SHOWN AS WIDTH x HEIGHT



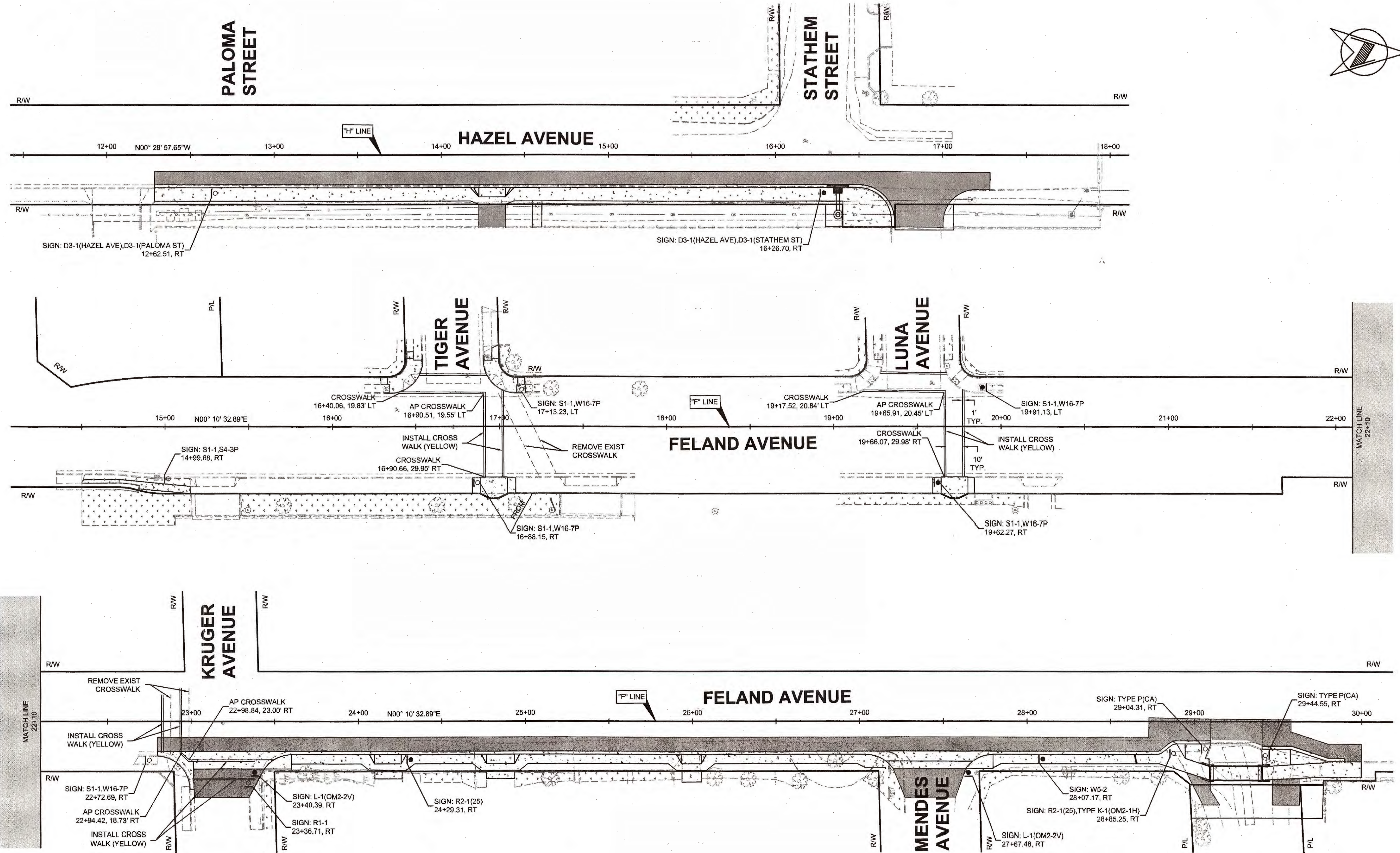
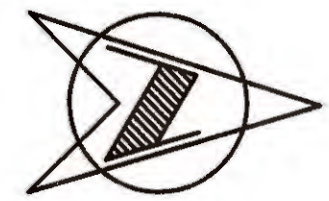
**STREET SIGN DETAIL**  
(NOT TO SCALE)



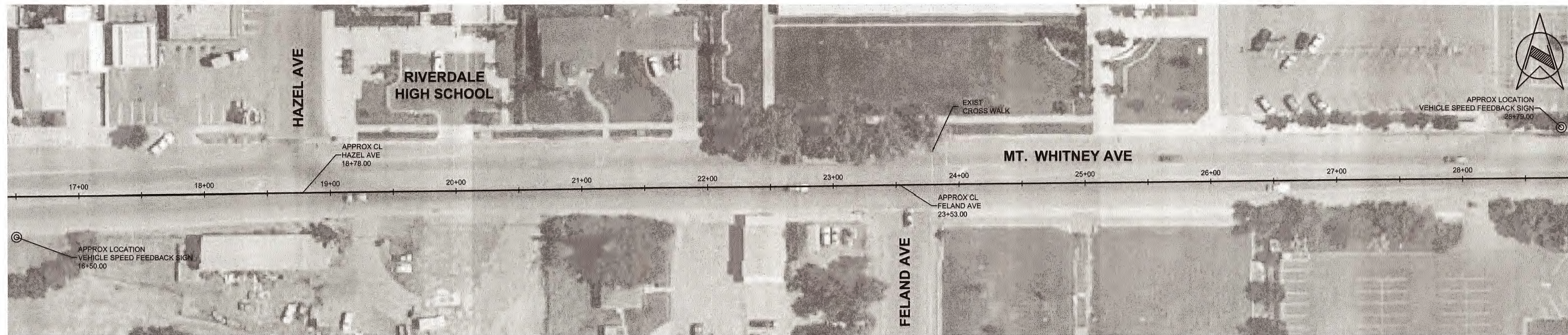
**VEHICLE SPEED FEEDBACK SIGN DETAIL**  
(NOT TO SCALE)

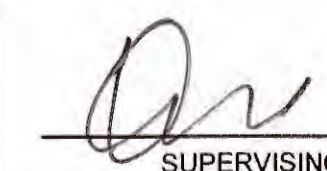


TYPE 1-B (16') POLE  
POLE, FOUNDATION AND BASE PLATE PER  
CALTRANS STD PLANS 2015 PLAN NO. RSP ES-7B

DESIGNED:	DATE	RECORD DRAWING	SCALE	PROJECT	DEPARTMENT OF PUBLIC WORKS AND PLANNING
G. BATH	02/06/2017	RESIDENT ENGINEER	NOT TO SCALE	RIVERDALE PEDESTRIAN IMPROVEMENTS	SIGNING AND STRIPING LEGEND
G. BATH	02/06/2017			VARIOUS LOCATIONS IN RIVERDALE	
J. GARCIA	03/14/2017			ROAD NO. N/A BRIDGE NO. N/A	
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.					DRAWING NO. 11253 SHEET NO. 15 TOTAL 18



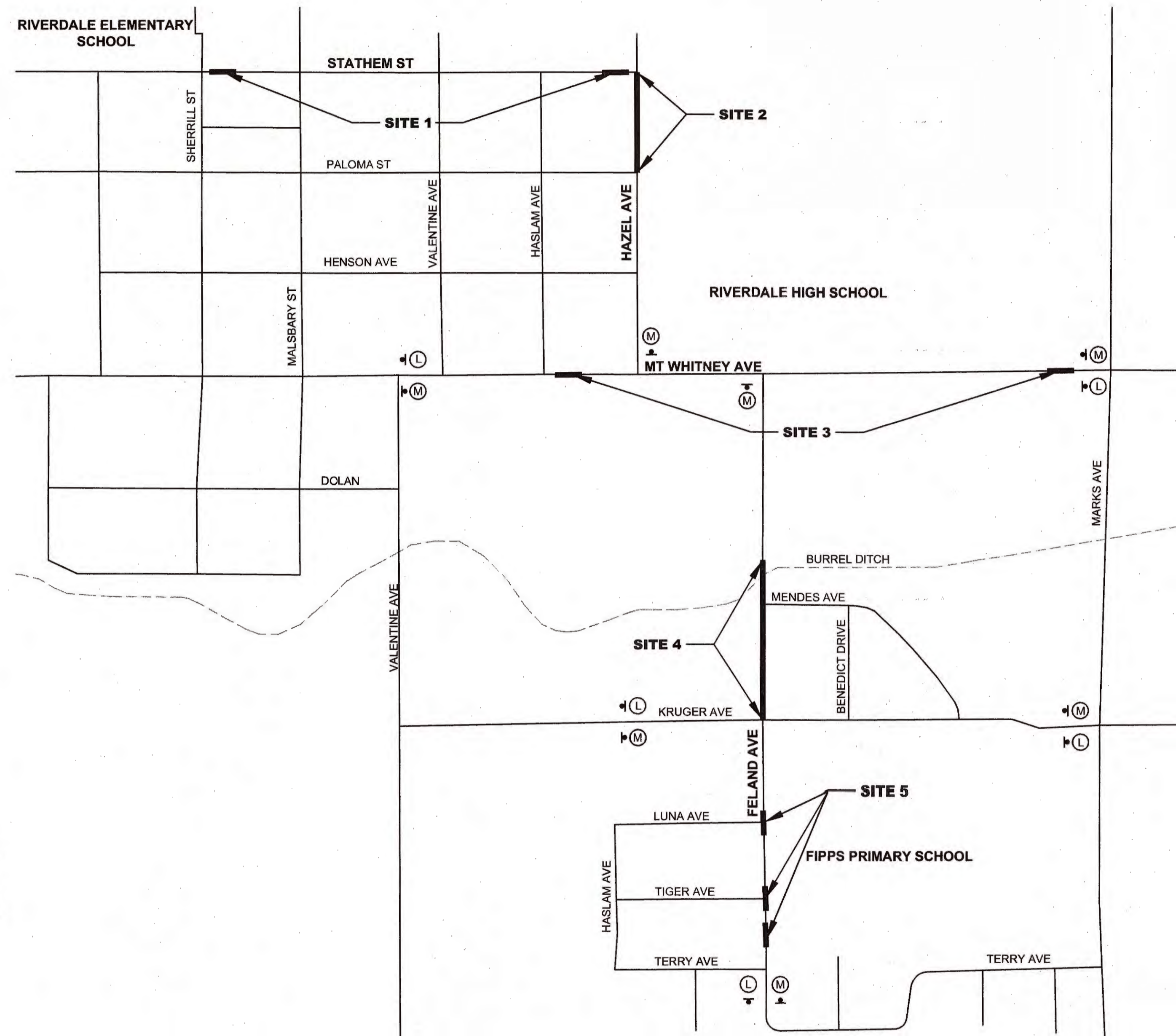




DESIGNED: G. BATH		DATE	RECORD DRAWING		SCALE	 SUPERVISING ENGINEER	DATE 8/8/17		PROJECT			DEPARTMENT OF PUBLIC WORKS AND PLANNING	
DRAWN: G. BATH		DATE	RESIDENT ENGINEER		AS SHOWN				RIVERDALE PEDESTRIAN IMPROVEMENTS			SIGNING PLAN	
CHECKED: J. GARCIA		DATE							VARIOUS LOCATIONS IN RIVERDALE			MT. WHITNEY AVE & STATHEM ST	
									ROAD NO. N/A	BRIDGE NO. N/A		DRAWING NO. 11253	SHEET NO. 17

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

**TEMPORARY WORK ZONE SIGNS**



- NOTES:**
1. THIS PLAN DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PROVIDE A TRAFFIC CONTROL SYSTEM PLAN AS REQUIRED IN THE SPECIFICATIONS.
  2. ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES MAY BE REQUIRED AS PART OF THE TRAFFIC CONTROL SYSTEM PLAN AS DETERMINED BY THE ENGINEER.
  3. LOCATIONS OF CONSTRUCTION AREA SIGNS AND TYPE III BARRICADES ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.
  4. SIGNS ERECTED ON THE SIDE OF THE ROAD SHALL BE MOUNTED AT A HEIGHT OF AT LEAST 7 FEET MEASURED FROM THE BOTTOM OF THE SIGN PLATE TO THE TOP ELEVATION OF THE NEAREST EDGE OF THE PAVEMENT, EXCEPT FOR SIGNS PLACED ON BARRICADES.
  5. SIGNS THAT WILL BE IN PLACE MORE THAN FIVE CALENDAR DAYS SHALL BE INSTALLED ON METAL OR WOOD POSTS.
  6. ALL EXISTING STOP SIGNS AND STOP AHEAD SIGNS ARE TO REMAIN IN PLACE DURING CONSTRUCTION.
  7. ALL SIGNS, EXCEPT R11-2 AND R11-4 SHALL BE BLACK LETTERS ON ORANGE BACKGROUND.
  8. INCLUDE "BUSINESS OPEN DURING CONSTRUCTION" SIGN IN TRAFFIC CONTROL SYSTEM
  9. ■ -INDICATES APPLICABLE SIGN.

SIGN	CA MUTCD CODE	PANEL SIZE (INCHES)	DESCRIPTION	POST LENGTH (FEET)
□ A	W20-2	36 X 36	DETOUR AHEAD	12
	W16-2aP	24 X 12	500 FT	
□ B	W20-2	36 X 36	DETOUR AHEAD	12
	W16-2aP	24 X 12	1000 FT	
□ C	W20-2	36 X 36	DETOUR AHEAD	12
	W16-2aP	24 X 12	1500 FT	
□ D	R11-2	48 X 30	ROAD CLOSED	TYPE III BARRICADE
□ E	R11-4	60 X 30	ROAD CLOSED TO THRU TRAFFIC	TYPE III BARRICADE
	M4-10L	48 X 18	DETOUR LEFT	
□ F	R11-4	60 X 30	ROAD CLOSED TO THRU TRAFFIC	TYPE III BARRICADE
	M4-10R	48 X 18	DETOUR RIGHT	
□ G	M4-8	21 X 9	DETOUR	12
□ H	M4-10L	48 X 18	DETOUR LEFT	12
□ J	M4-10R	48 X 18	DETOUR RIGHT	12
□ K	M4-8a	24 X 18	END DETOUR	12
■ L	G20-2	36 X 18	END ROAD WORK	12
■ M	W20-1	36 X 36	ROAD WORK AHEAD	12
□ N	W20-1	36 X 36	ROAD WORK AHEAD	12
	W16-2aP	24 X 12	500 FT	
□ P	W20-1	36 X 36	ROAD WORK AHEAD	12
	W16-2aP	24 X 12	1000 FT	
□ Q	W20-1	36 X 36	ROAD WORK AHEAD	12
	W16-2aP	24 X 12	1500 FT	
□ R	W20-3	36 X 36	ROAD CLOSED AHEAD	12
□ S	W20-3	36 X 36	ROAD CLOSED AHEAD	12
	W16-2aP	24 X 12	500 FT	
□ T	W20-3	36 X 36	ROAD CLOSED AHEAD	12
	W16-2aP	24 X 12	1000 FT	
□ U	W20-3	36 X 36	ROAD CLOSED AHEAD	12
	W16-2aP	24 X 12	1500 FT	
□ V	C9A (CA)	36 X 36	FLAGGER AHEAD	12
□ W	C30 (CA)	30 X 30	LANE CLOSED	12
□ X	W3-4	36 X 36	PREPARE TO STOP	12
□ Y	SC3-1 (CA)	48 X 18	DETOUR STRAIGHT	12
□ Z	G7-1 (CA)	VAR X 18	STREET NAME	12
□ A1	G7-2 (CA)	VAR X 18	ADVANCE STREET NAME	12
□ A2	W21-1A	36 X 36	WORKERS AHEAD	12

	DATE	<b>RECORD DRAWING</b>	<b>SCALE</b>		<b>PROJECT</b>		<b>DEPARTMENT OF PUBLIC WORKS AND PLANNING</b>
DESIGNED: G. BATH	02/06/2017	RESIDENT ENGINEER	HORIZ 0 300' 600'	 SUPERVISING ENGINEER DATE 2/8/17 	<b>RIVERDALE PEDESTRIAN IMPROVEMENTS</b>		<b>TEMPORARY WORK ZONE SIGNING</b>
DRAWN: G. BATH	02/06/2017				VARIOUS LOCATIONS IN RIVERDALE		
CHECKED: J. GARCIA	03/14/2017				ROAD NO. N/A BRIDGE NO. N/A		DRAWING NO. 11253 SHEET NO. 18 TOTAL 18
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.							