

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

NCE
 501 Canal Blvd., Suite 1
 Richmond, Ca. 94804
 (510) 215-3620 * Fax (510) 215-2898



12/17/18

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER
CITY OF RICHMOND
 450 CIVIC CENTER PLAZA
 RICHMOND, CA 94804



NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	JRS
DRAWN BY:	MDG
CHECKED BY:	FGH
DATE:	12/13/18
DATE:	12/17/18

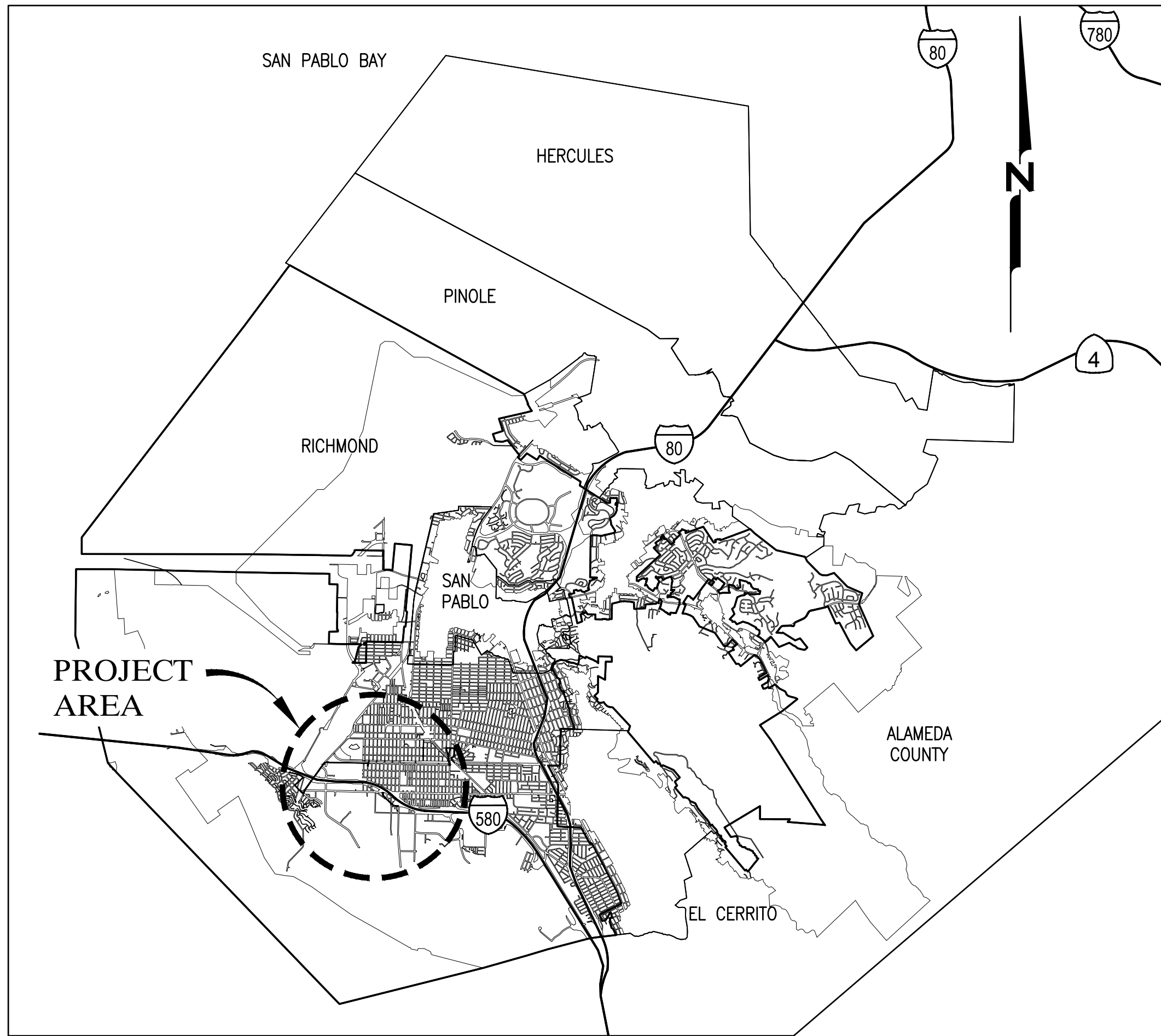
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SHEET TITLE

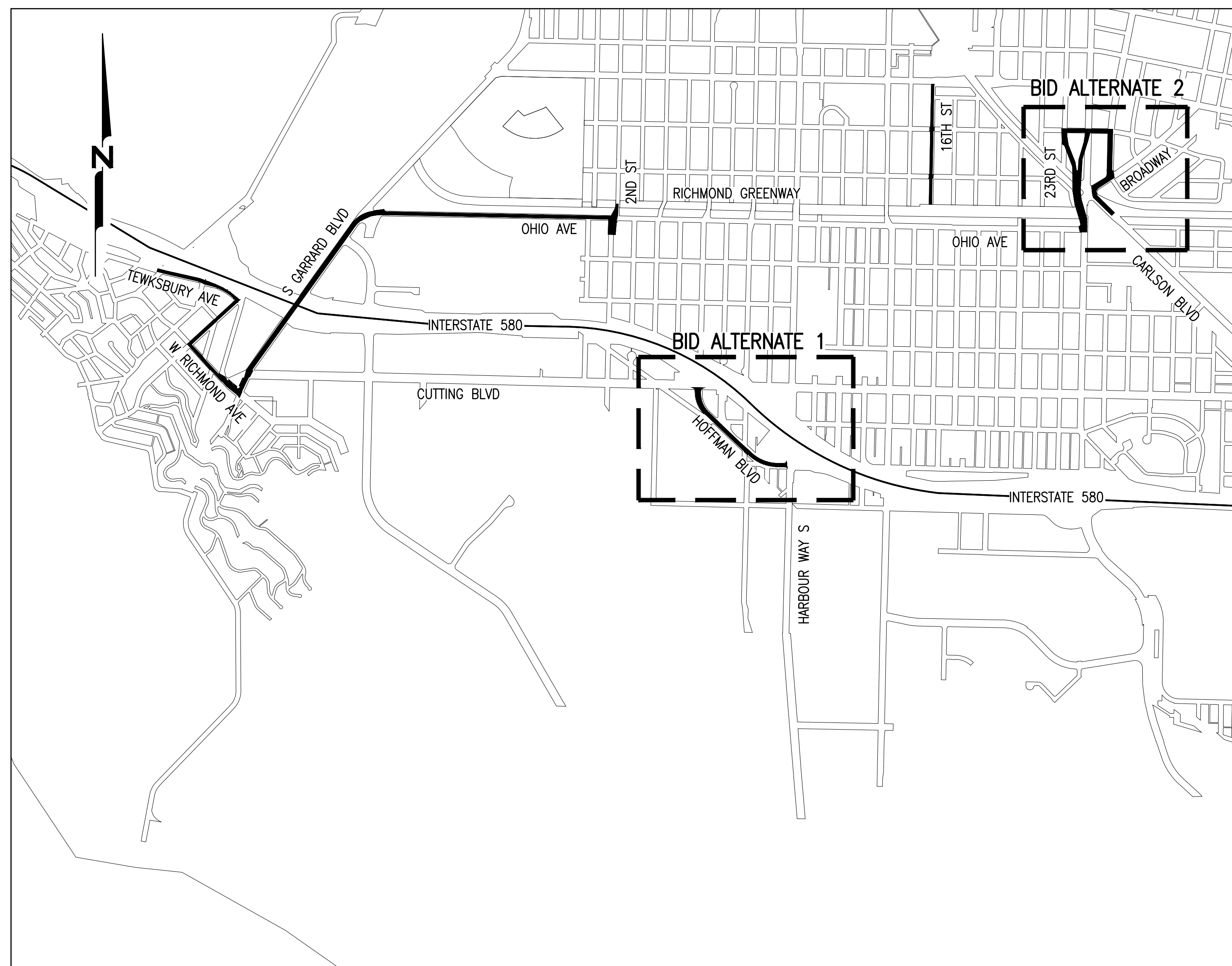
TITLE SHEET

DRAWING
G1

SHEET 1 OF 20



LOCATION MAP
 NOT TO SCALE



VICINITY MAP
 NOT TO SCALE

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20	E3	TRAFFIC SIGNAL MODIFICATION PLAN 3

PREPARED UNDER THE DIRECTION OF: *J. Ryan Shafer* 12/17/18
 JOHN RYAN SHAFER, P.E. DATE
 PRINCIPAL, NCE

APPROVED BY: YADER A. BERMUDEZ, P.E. DATE
 CITY ENGINEER AND CAPITAL IMPROVEMENTS DIRECTOR

BID SET PLANS
 DATE: 12-17-18



GENERAL NOTES

- ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION MAY BE ISSUED. WORK NOT CONFORMING TO THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE CITY.
- SPECIFIC NOTES AND DETAILS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATIONS, ELEVATIONS, ETC. OF EXISTING FACILITIES AND TO IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY FIELD CONFLICTS.
- ALL MATERIALS AND WORKMANSHIP SHALL FULLY CONFORM WITH THE SPECIFICATIONS, STANDARDS, AND ORDINANCES OF THE CITY OF RICHMOND, THE LATEST COUNTY OF CONTRA COSTA PUBLIC WORKS STANDARD PLANS, AND THE 2015 CALTRANS STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED. STANDARD PLANS ARE AVAILABLE AT THE OFFICE OF THE ENGINEER.
- CONTRACTOR SHALL MEET WITH CITY PRIOR TO START OF CONSTRUCTION. 48 HOURS NOTICE TO THE ENGINEER IS REQUIRED ON ALL INSPECTIONS.
- CONTRACTOR IS RESPONSIBLE TO MAKE ALL ARRANGEMENTS FOR SITE INSPECTIONS AND ENSURE THAT ALL CURRENT STANDARDS FOR THE CITY OF RICHMOND AND 2015 CALTRANS STANDARD SPECIFICATIONS ARE FOLLOWED PRIOR TO BEGINNING ANY PHASE OF CONSTRUCTION WORK.
- CONTRACTOR SHALL VERIFY DIMENSIONS PRIOR TO START OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
- CONSTRUCTION SHALL BE LIMITED TO BETWEEN THE HOURS OF 8:00 A.M. AND 5:00 P.M., MONDAY THROUGH FRIDAY AND INSPECTION REQUESTS SHALL BE LIMITED TO NORMAL CITY BUSINESS HOURS: 8:00 A.M. TO 5:00 P.M., MONDAY THROUGH FRIDAY. ARRANGEMENTS FOR ANY OVERTIME INSPECTION SERVICES AND PAYMENTS OF FEES FOR SAME SHOULD BE MADE 48 HOURS IN ADVANCE AND ARE SUBJECT TO INSPECTION AVAILABILITY AND APPROVAL BY THE ENGINEER.
- DUST CONTROL DURING ALL PHASES OF CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN GOOD HOUSEKEEPING WITHIN THE CONSTRUCTION AREA AND STAGING AREA.
- WATER FOR DUST CONTROL AND USE FOR COMPACTION MAY BE PURCHASED FROM THE APPROPRIATE AGENCY PRIOR TO THE START OF ANY WORK, AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PAY FOR ANY FEES OR DEPOSITS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THE PROPOSED ROUTE(S) FOR ALL CONSTRUCTION TRAFFIC RELATED TO THE PROJECT. UPON APPROVAL, THE CONTRACTOR SHALL STRICTLY ADHERE TO THAT ROUTE(S) ONLY, UNLESS WRITTEN PERMISSION IS OBTAINED TO CHANGE THE ROUTE(S). IN ADDITION TO THE CONTRACTOR'S PROPOSED ROUTE(S), A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED FOR APPROVAL BY THE ENGINEER.
- BIDDERS SHOULD NOTE THE PRESENCE OF OVERHEAD UTILITIES IN THE WORK AREA. AS PART OF THEIR PRE-BID INSPECTION, BIDDERS SHALL NOTE THE TYPE AND LOCATION OF OVERHEAD UTILITIES IN THE PROPOSED WORK AREA. BIDDER'S PRICE SHALL INCLUDE PROVISIONS FOR WORKING IN AREAS WHERE UTILITIES EXIST AT THE TIME OF BIDDING, AND NO ADDITIONAL COMPENSATION IS ALLOWED.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES.
- CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICES ALERT (U.S.A.) 800-227-2600 (OR DIAL 811), TWO (2) WORKING DAYS PRIOR TO START OF ANY EXCAVATION OR DEMOLITION OF IMPROVEMENTS.
- THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL UTILITIES TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION SO THAT LINES CAN BE MARKED. CONTRACTOR SHALL EXERCISE CARE DURING EXCAVATION OR DEMOLITION, PARTICULARLY IN LOCATIONS WITH UTILITIES THAT WILL REMAIN IN SERVICE.
- ANY DAMAGE TO THE EXISTING FACILITIES INCLUDING TREES, LANDSCAPING, IRRIGATION, FENCES, WALLS, SIDEWALK, MAILBOXES, UTILITIES, AND OTHER PAVEMENT SURFACES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE. CONTRACTOR SHALL RESTORE ANY AND ALL PAVEMENT AND OTHER FACILITIES OUTSIDE LIMITS OF WORK AFFECTED BY THE CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VIDEOTAPE OR DOCUMENT EXISTING CONDITIONS PRIOR TO START OF WORK TO SUBSTANTIATE ANY PREVIOUS DAMAGE, ETC.; COPIES OF WHICH SHALL BE PROVIDED TO THE ENGINEER.
- IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT THEIR WORK AREA FROM DAMAGE.
- TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN, AND OTHER DEVICES TO PROVIDE FOR SAFE PASSAGE OF PUBLIC VEHICULAR AND PEDESTRIAN TRAFFIC IN ACCORDANCE WITH CA MUTCD.
- TYPICAL DETAILS REFERRED TO ON THESE DRAWINGS ARE FROM THE LATEST VERSIONS OF THE CITY STANDARD PLANS, CALTRANS STANDARD PLANS, AND COUNTY OF CONTRA COSTA PUBLIC WORKS STANDARD PLANS.
- CONTRACTOR SHALL POSSESS A VALID CLASS 'A' LICENSE AT THE TIME OF AWARD OF THE CONTRACT.
- CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A 2 WEEK LOOK AHEAD SCHEDULE AT WEEKLY MEETINGS; AND DAILY SCHEDULE OF PLANNED WORK A MINIMUM OF 24 HOURS IN ADVANCE.
- CONTRACTOR SHALL PREPARE A CONSTRUCTION PHASING PLAN AND PRESENT THIS PLAN AT THE PRE-CONSTRUCTION MEETING FOR THE ENGINEER'S APPROVAL.

LEGEND

PROPOSED FEATURES

- PROPOSED EP
- RED CURB
- DETAIL IDENTIFICATION NUMBER
- NUMBER OF SHEET ON WHICH DETAIL IS LOCATED
- PORTLAND CEMENT CONCRETE BULB-OUT
- GREEN PAINT
- CURB RAMP
- CALTRANS STRIPING DETAIL NUMBER
- LENGTH OR QUANTITY OF STRIPE/SYMBOL
- KEY NOTE STRIPING
- SIGN
- WAYFINDING SIGN

EXISTING FEATURES

- CURB AND GUTTER
- PROPERTY LINE/ROW

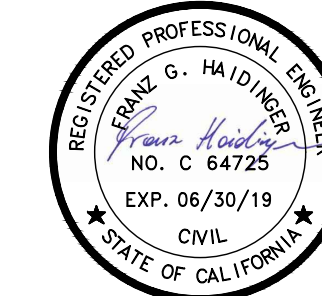
ABBREVIATIONS

NOT ALL ABBREVIATIONS LISTED ARE USED IN THESE PLANS

AB	AGGREGATE BASE	MFG	MANUFACTURER
AC	ASPHALT CONCRETE	MH	MANHOLE
A/G	ABOVE GROUND	MAX	MAXIMUM
@	AT	MDD	MAXIMUM DRY DENSITY
APPROX.	APPROXIMATE	MJ	MECHANICAL JOINT
ASSY	ASSEMBLY	MMA	METHYL METHACRYLATE
AVG.	AVERAGE	MI	MILE
AWWA	AMERICAN WATER WORKS ASSOCIATION	MIN	MINIMUM
		MISC	MISCELLANEOUS
		MSB	MAIN SWITCH BOARD
		MVC	MIDDLE OF VERTICAL CURVE
BMP	BEST MANAGEMENT PRACTICES	N	NORTH
BOW	BOTTOM OF WALL	NEC	NATIONAL ELECTRICAL CODES
BSP	BLACK STEEL PIPE	NIC	NOT IN CONTRACT
BW	BOTTOM OF WALL	NTS	NOT TO SCALE
BVC	BEGIN VERTICAL CURVE	# OR NO.	NUMBER
		O.C.	ON CENTER
C&G	CURB AND GUTTER	O.G.	ORIGINAL GRADE
CAMUTCD	CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES	OWS	OIL/WATER SEPARATOR
CB	CATCH BASIN	±	PLUS OR MINUS
CF	CUBIC FEET	PT.	POINT
CL	CENTERLINE	PCC	PORTLAND CEMENT CONCRETE
CLR	CLEAR	PVC	POLYVINYL CHLORIDE
CMP	CORRUGATED METAL PIPE	PWMT	PAVEMENT
CO	CLEAN OUT	POS	POSITIVE
COMM	COMMUNICATION	PSI	POUNDS PER SQUARE INCH
CONC	CONCRETE	PL	PROPERTY LINE
CONST	CONSTRUCT	PUE	PUBLIC UTILITY EASEMENT
CP	CONTROL POINT	PVI	POINT OF VERTICAL INTERSECTION
CY	CUBIC YARD	(P)	PROPOSED
		R	RADIUS
* OR DEG	DEGREE(S)	RCP	REINFORCED CONCRETE PIPE
DI	DROP INLET	REVEG	REVEGETATION
Ø OR DIA.	DIAMETER	RT,R	RIGHT
D.I.	DUCTILE IRON	R/W, ROW	RIGHT-OF-WAY
DWG	DRAWING	S	SLOPE, SOUTH
DW, DWY	DRIVEWAY	SCH??	SCHEDULE XX PIPE
EA	EACH	SD	STORM DRAIN
EASE.	EASEMENT	SDR	STANDARD DIMENSION RATIO
E	EAST	SDMH	STORM DRAIN MANHOLE
EG	EXISTING GRADE	SF	SQUARE FOOT/FEET
ELEC	ELECTRIC	SHT	SHEET
EP	EDGE OF PAVEMENT	SSMH	SANITARY SEWER MANHOLE
EL	ELEVATION	SSCO	SANITARY SEWER CLEAN OUT
EVC	END OF VERTICAL CURVE	SS	SANITARY SEWER, STAINLESS STEEL
EX	EXISTING	STA	STATION
		STD	STANDARD
FC	FACE OF CURB	SY	SQUARE YARD
FCA	FLANGE COUPLER ADAPTER	TAC	TOP OF ASPHALT
FH	FIRE HYDRANT	TBC	TOP BACK OF CURB
FG	FINISH GRADE	PL	TOP OF CURB
FFC	FRONT FACE CURB	TOW	TOP OF WALL
FES	FLARED END SECTION	TW	TOP OF WALL
FL	FLOWLINE	TYP	TYPICAL
FLG	FLANGED	UGE	UNDERGROUND ELECTRIC LINES
FT or'	FOOT, FEET	UGT	UNDERGROUND TELEPHONE LINES
FV	FLUSH VALVE	U/G	UNDERGROUND
G	GAS	VC	VERTICAL CURVE
GV	GATE VALVE	VG	VALLEY GUTTER
GB	GRADE BREAK	W	WATER
GSP	GALVANIZED STEEL PIPE	WL	WATERLINE
		W	WEST
HP	HIGH POINT	W/	WITH
HOR	HORIZONTAL	WM	WATER METER
HDPE	HIGH DENSITY POLYETHYLENE		
HMAC	HOT MIXED ASPHALT CONCRETE		
IN. or "	INCH		
INT	INTERSECTION		
IE	INVERT ELEVATION		
IRR.	IRRIGATION		
LT,L	LEFT		
LEN	LENGTH		
LF	LINEAR FEET		
LFG	LANDFILL GAS		
LP	LOW POINT		
LS	LUMP SUM		



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SHEET TITLE

NOTES, LEGENDS, AND ABBREVIATIONS

DRAWING

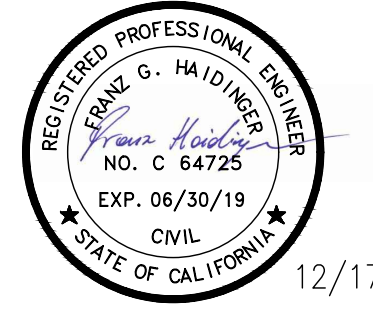
G2

SHEET 2 OF 20

BID SET PLANS
DATE: 12-17-18



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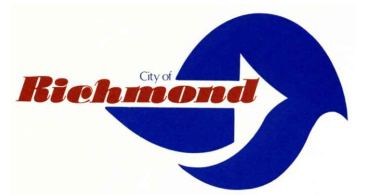


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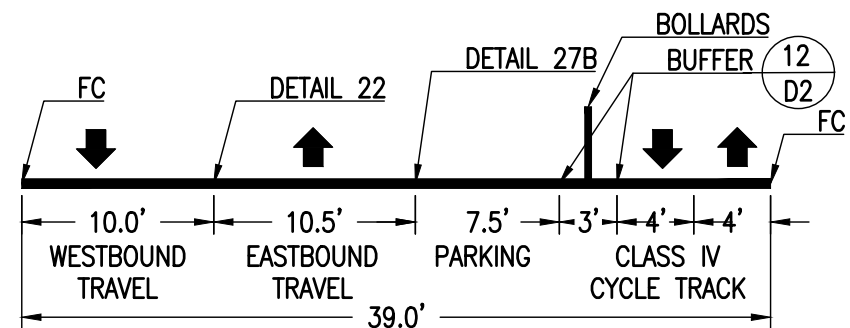
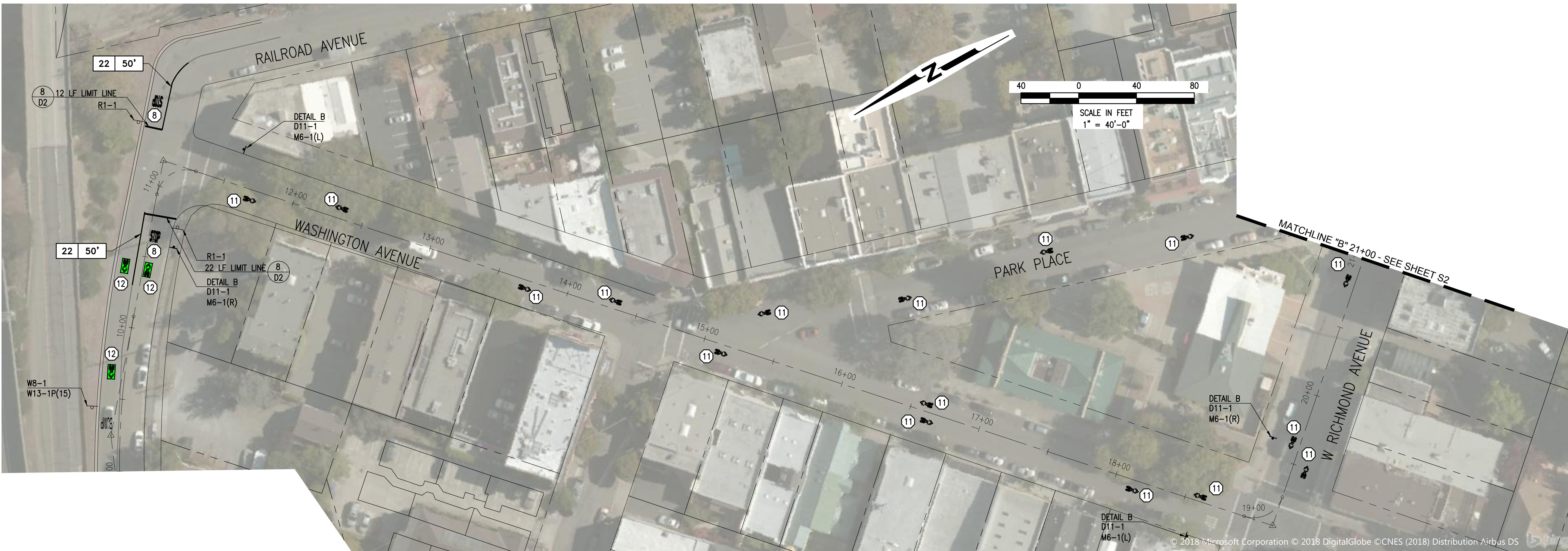
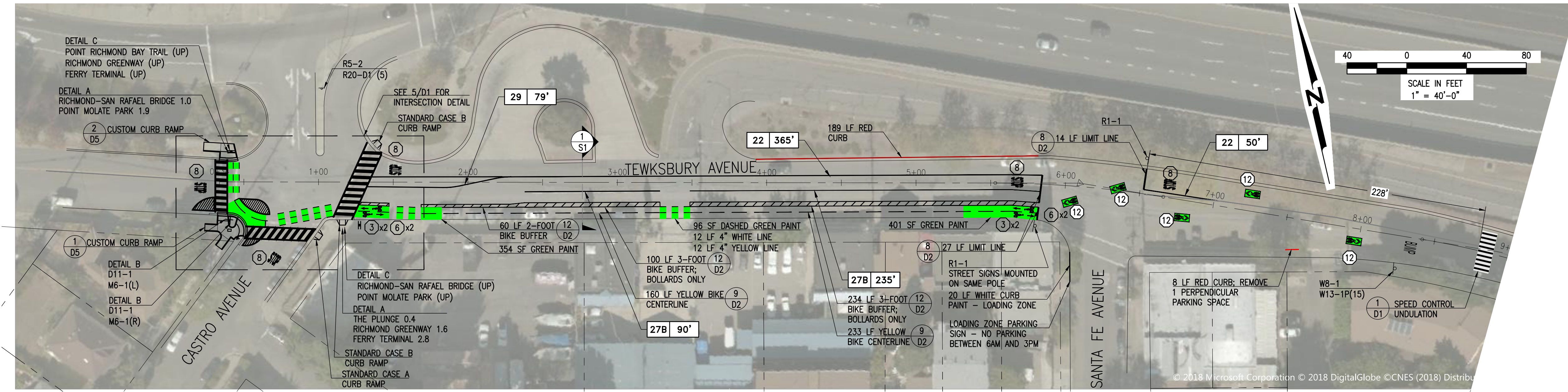
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SHEET TITLE

STRIPING
0+34 TO 21+00

DRAWING **S1**

SHEET 3 OF 20



STATION 1+40 TO 5+75
 1" = 10'

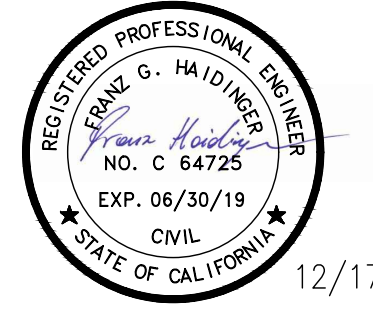
KEYNOTES:

- ① CALTRANS TYPE IV ARROW; SEE DETAIL 6/D3.
- ② CALTRANS TYPE VII ARROW; SEE DETAIL 7/D3.
- ③ CALTRANS BIKE ARROW; SEE DETAIL 3/D3.
- ④ CALTRANS TYPE II ARROW; SEE DETAIL 2/D3.
- ⑤ CALTRANS TYPE III ARROW; SEE DETAIL 4/D3.
- ⑥ CALTRANS BIKE LANE SYMBOL WITH PERSON; SEE DETAIL 4/D4.
- ⑦ BIKE BOULEVARD MARKING; SEE DETAIL 6/D4.
- ⑧ CALTRANS "STOP" MARKING; SEE DETAIL 1/D4.
- ⑨ CALTRANS "XING" MARKING; SEE DETAIL 2/D4.
- ⑩ RAILROAD CROSSING SYMBOL; SEE DETAIL 1/D3.
- ⑪ CALTRANS SHARROW MARKING; SEE DETAIL 5/D3.
- ⑫ CALTRANS GREEN-BACKED SHARROW MARKING; SEE DETAIL 5/D3.
- ⑬ CALTRANS LOOP DETECTOR MARKING; SEE DETAIL 7/D4.
- ⑭ TWO STAGE BICYCLE TURN BOX MARKING; SEE DETAIL 8/D4.

- NOTE:**
1. STREET RESURFACING BY CITY PRIOR TO STRIPING.
 2. REMOVE STRIPING AND MARKINGS ON TEWKSBUARY AVENUE BETWEEN CASTRO AVENUE AND RAILROAD AVENUE.
 3. INSTALL AN R5-2 AND R20-D1(5) IN CASTRO MEDIAN NORTH OF 1-580 ON THE "CASTRO ST - PT RICHMOND" NAVIGATIONAL SIGN POST.

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 DATE: 12-17-18





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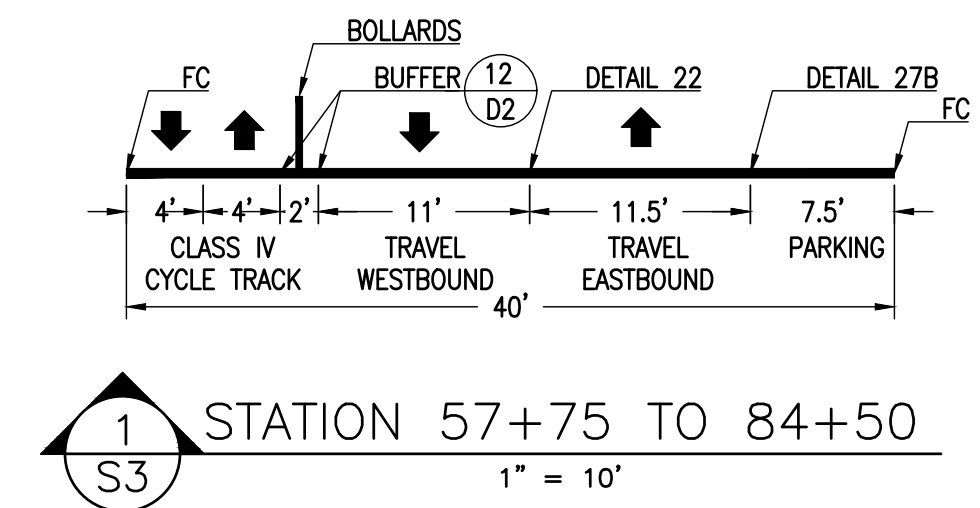
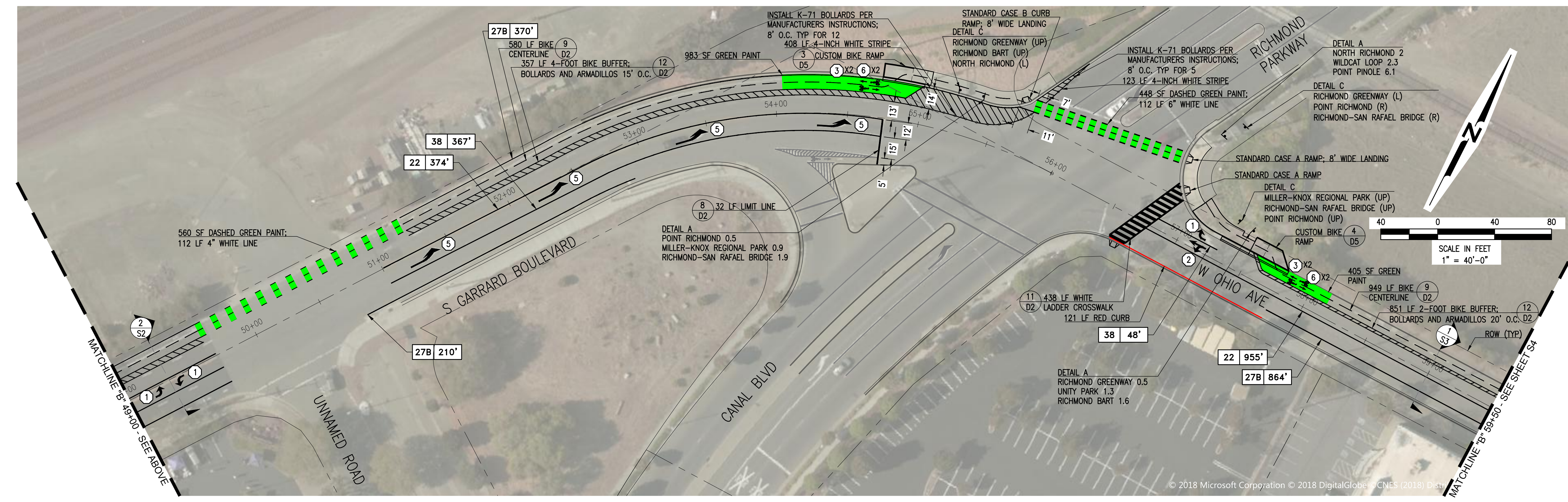
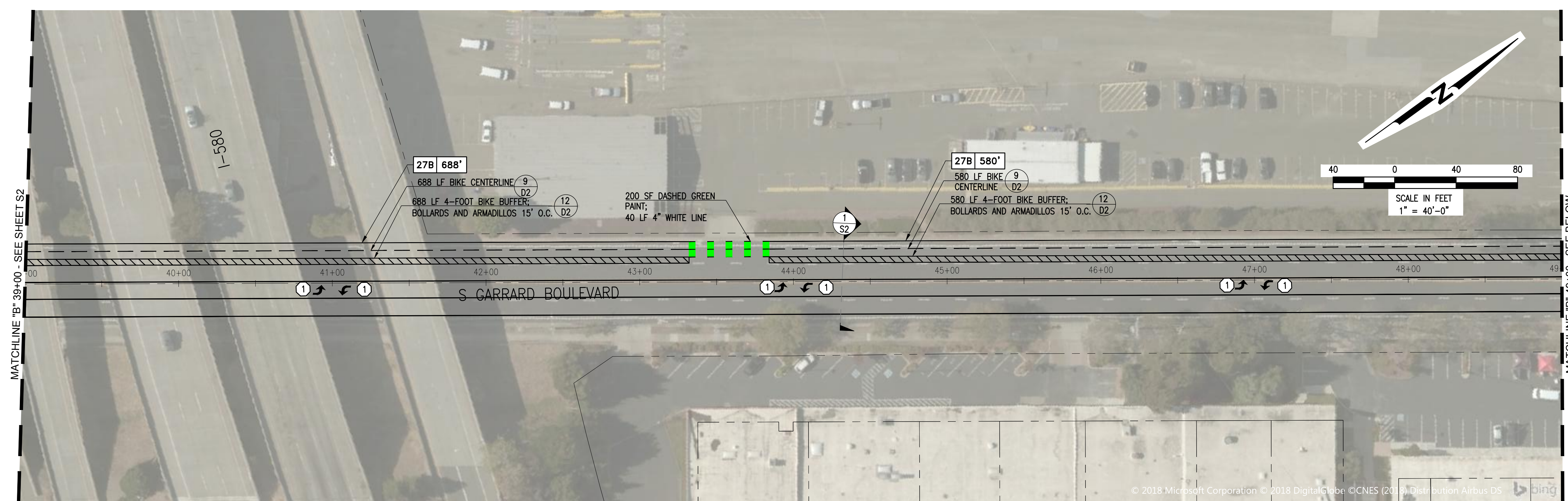
SHEET TITLE

**STRIPING
39+00 TO 59+50**

DRAWING

S3

SHEET 5 OF 20



- KEYNOTES:**
- ① CALTRANS TYPE IV ARROW; SEE DETAIL 6/D3.
 - ② CALTRANS TYPE VII ARROW; SEE DETAIL 7/D3.
 - ③ CALTRANS BIKE ARROW; SEE DETAIL 3/D3.
 - ④ CALTRANS TYPE II ARROW; SEE DETAIL 2/D3.
 - ⑤ CALTRANS TYPE III ARROW; SEE DETAIL 4/D3.
 - ⑥ CALTRANS BIKE LANE SYMBOL WITH PERSON; SEE DETAIL 4/D4.
 - ⑦ BIKE BOULEVARD MARKING; SEE DETAIL 6/D4.
 - ⑧ CALTRANS "STOP" MARKING; SEE DETAIL 1/D4.
 - ⑨ CALTRANS "XING" MARKING; SEE DETAIL 2/D4.
 - ⑩ RAILROAD CROSSING SYMBOL; SEE DETAIL 1/D3.
 - ⑪ CALTRANS SHARROW MARKING; SEE DETAIL 5/D3.
 - ⑫ CALTRANS GREEN-BACKED SHARROW MARKING; SEE DETAIL 5/D3.
 - ⑬ CALTRANS LOOP DETECTOR MARKING; SEE DETAIL 7/D4.
 - ⑭ TWO STAGE BICYCLE TURN BOX MARKING; SEE DETAIL 8/D4.

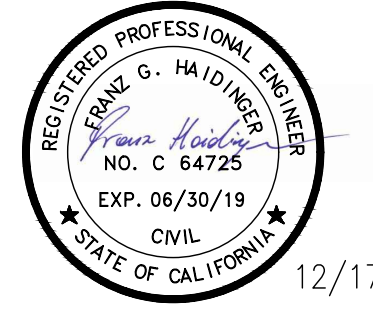
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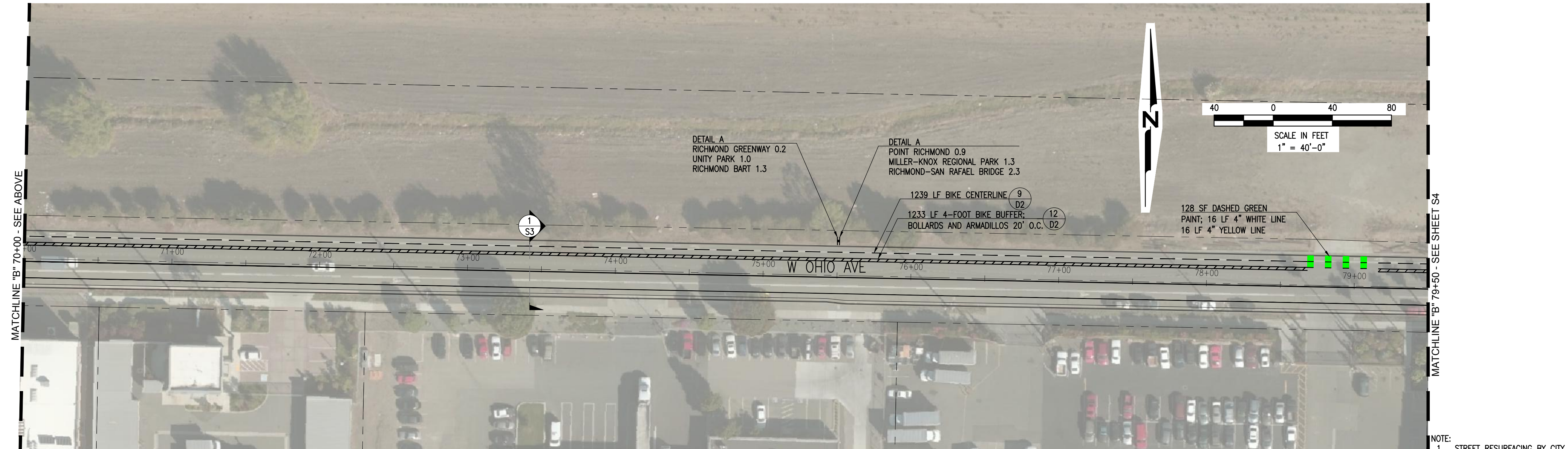
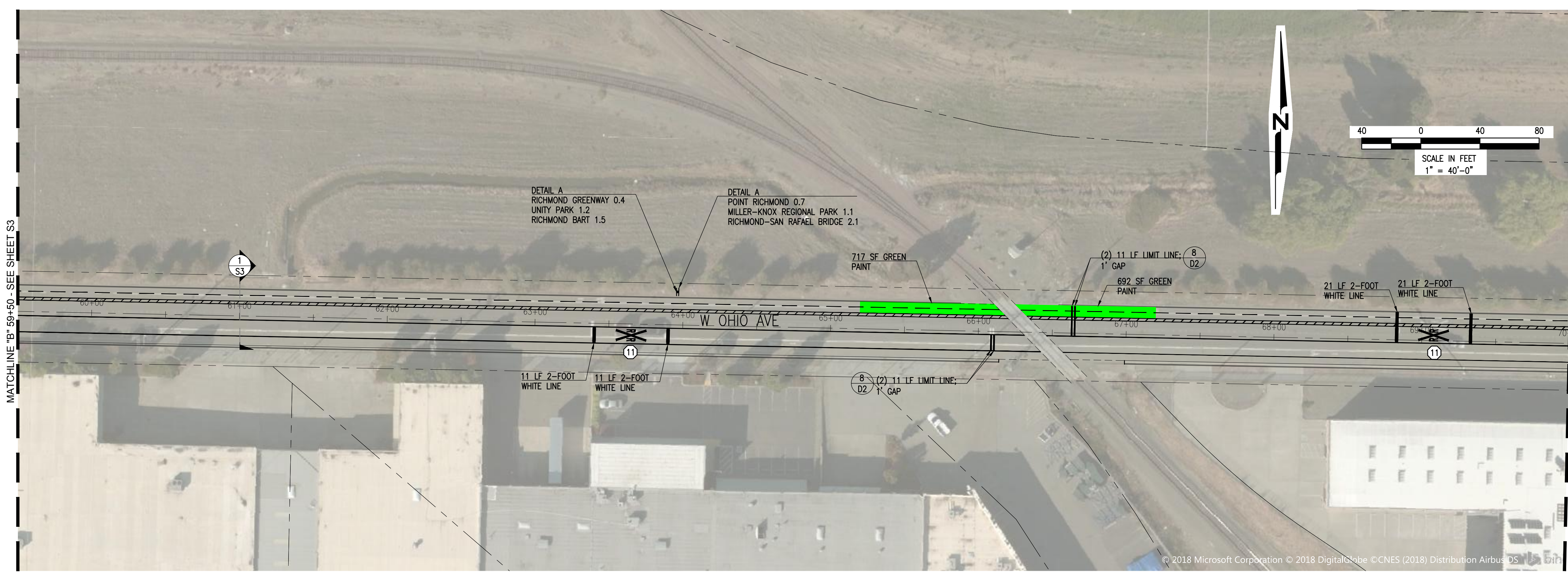
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SHEET TITLE

STRIPING
59+50 TO 79+50

DRAWING
S4

SHEET 6 OF 20



- KEYNOTES:**
- ① CALTRANS TYPE IV ARROW; SEE DETAIL 6/D3.
 - ② CALTRANS TYPE VII ARROW; SEE DETAIL 7/D3.
 - ③ CALTRANS BIKE ARROW; SEE DETAIL 3/D3.
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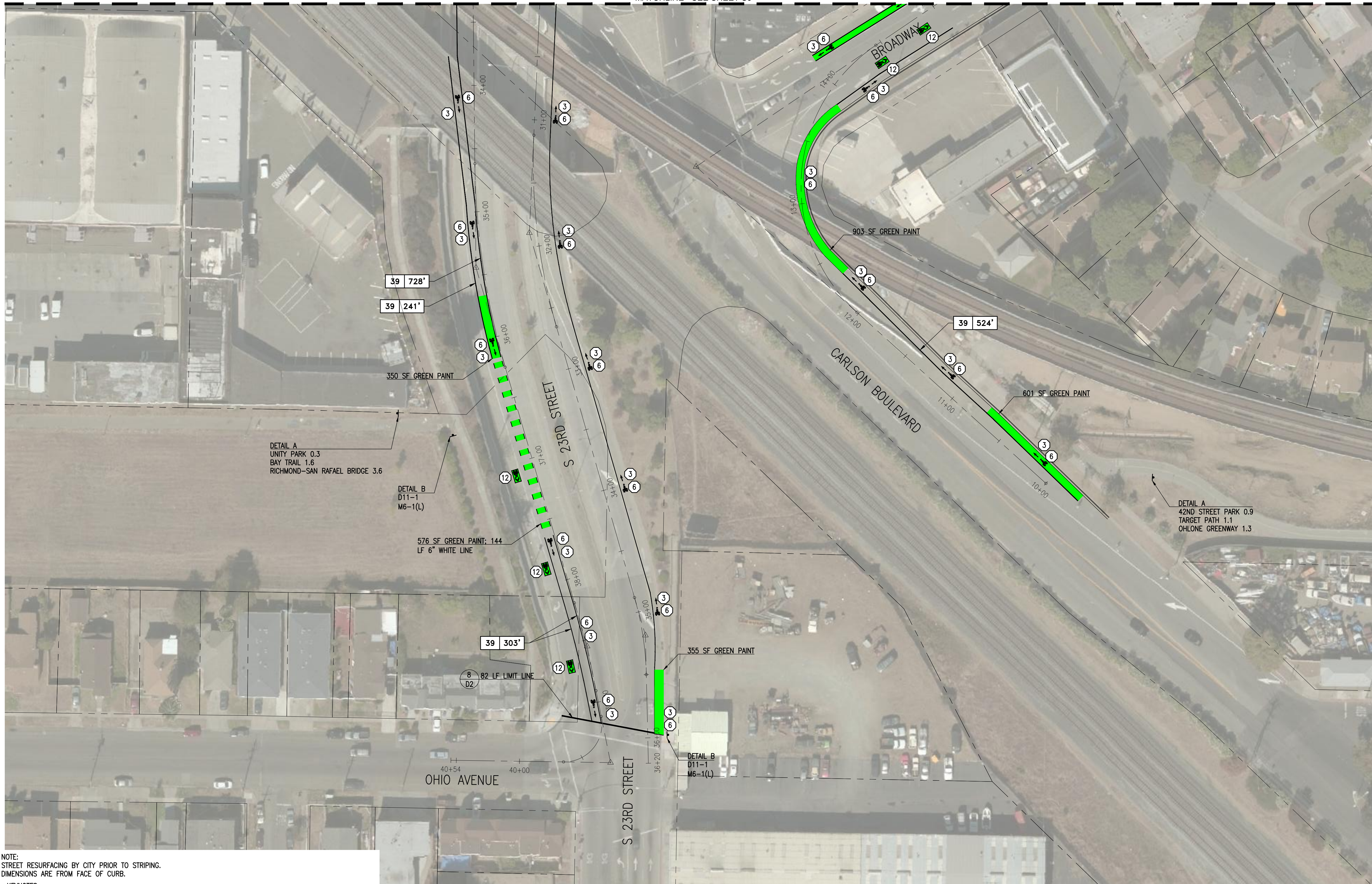
NOTE:
 1. STREET RESURFACING BY CITY PRIOR TO STRIPING.
 2. REMOVE STRIPING AND MARKINGS FROM OHIO AVENUE.

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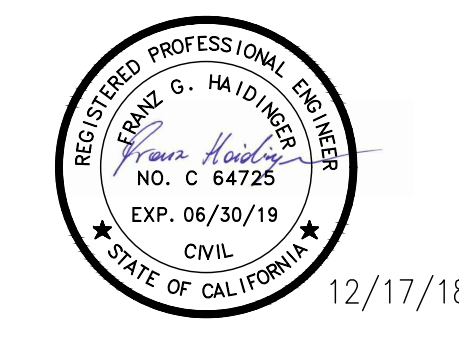
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MATCHLINE - SEE SHEET S9



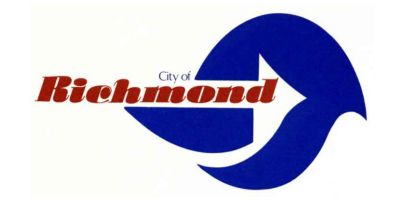
- NOTE:**
STREET RESURFACING BY CITY PRIOR TO STRIPING.
DIMENSIONS ARE FROM FACE OF CURB.
- KEYNOTES:**
- ① CALTRANS TYPE IV ARROW; SEE DETAIL 6/D3.
 - ② CALTRANS TYPE VII ARROW; SEE DETAIL 7/D3.
 - ③ CALTRANS BIKE ARROW; SEE DETAIL 3/D3.
 - ④ CALTRANS TYPE II ARROW; SEE DETAIL 2/D3.
 - ⑤ CALTRANS TYPE III ARROW; SEE DETAIL 4/D3.
 - ⑥ CALTRANS BIKE LANE SYMBOL WITH PERSON; SEE DETAIL 4/D4.
 - ⑦ BIKE BOULEVARD MARKING; SEE DETAIL 6/D4.
 - ⑧ CALTRANS "STOP" MARKING; SEE DETAIL 1/D4.
 - ⑨ CALTRANS "XING" MARKING; SEE DETAIL 2/D4.
 - ⑩ RAILROAD CROSSING SYMBOL; SEE DETAIL 1/D3.
 - ⑪ CALTRANS SHARROW MARKING; SEE DETAIL 5/D3.
 - ⑫ CALTRANS GREEN-BACKED SHARROW MARKING; SEE DETAIL 5/D3.
 - ⑬ CALTRANS LOOP DETECTOR MARKING; SEE DETAIL 7/D4.
 - ⑭ TWO STAGE BICYCLE TURN BOX MARKING; SEE DETAIL 8/D4.

NCE
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SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER
CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804



NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	JRS
DRAWN BY:	MDG
CHECKED BY:	FGH
DATE:	12/13/18
DATE:	12/17/18

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SHEET TITLE
STRIPING
BID ALTERNATE 2 -
23RD STREET SOUTH

DRAWING
S8

BID SET PLANS
DATE: 12-17-18

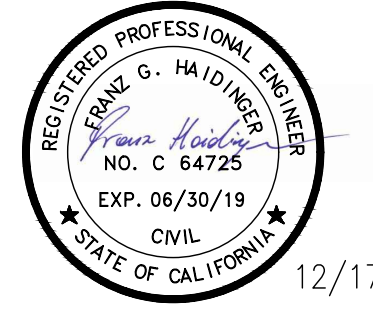


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File: \\nason\projects\active_projects\Richmond_City - 4568\568.45.55 - Short-Term Bicycle & Pedestrian Connections with 23rd Bridge\GIS\Drawings\23rd-10\DWG\Layout_S8.rvt
 Printed: Dec 19, 2018 @ 1:51pm | 10:00am/22°C (74°F) (Trim)



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Richmond, Ca. 94804
(510) 215-3620 * Fax (510) 215-2898



12/17/18

**SHORT-TERM BICYCLE
AND PEDESTRIAN
CONNECTIONS WITH
RICHMOND - SAN
RAFAEL BRIDGE**

OWNER
**CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804**



NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	JRS
DRAWN BY:	MDG
CHECKED BY:	FGH
DATE:	12/13/18
DATE:	12/17/18

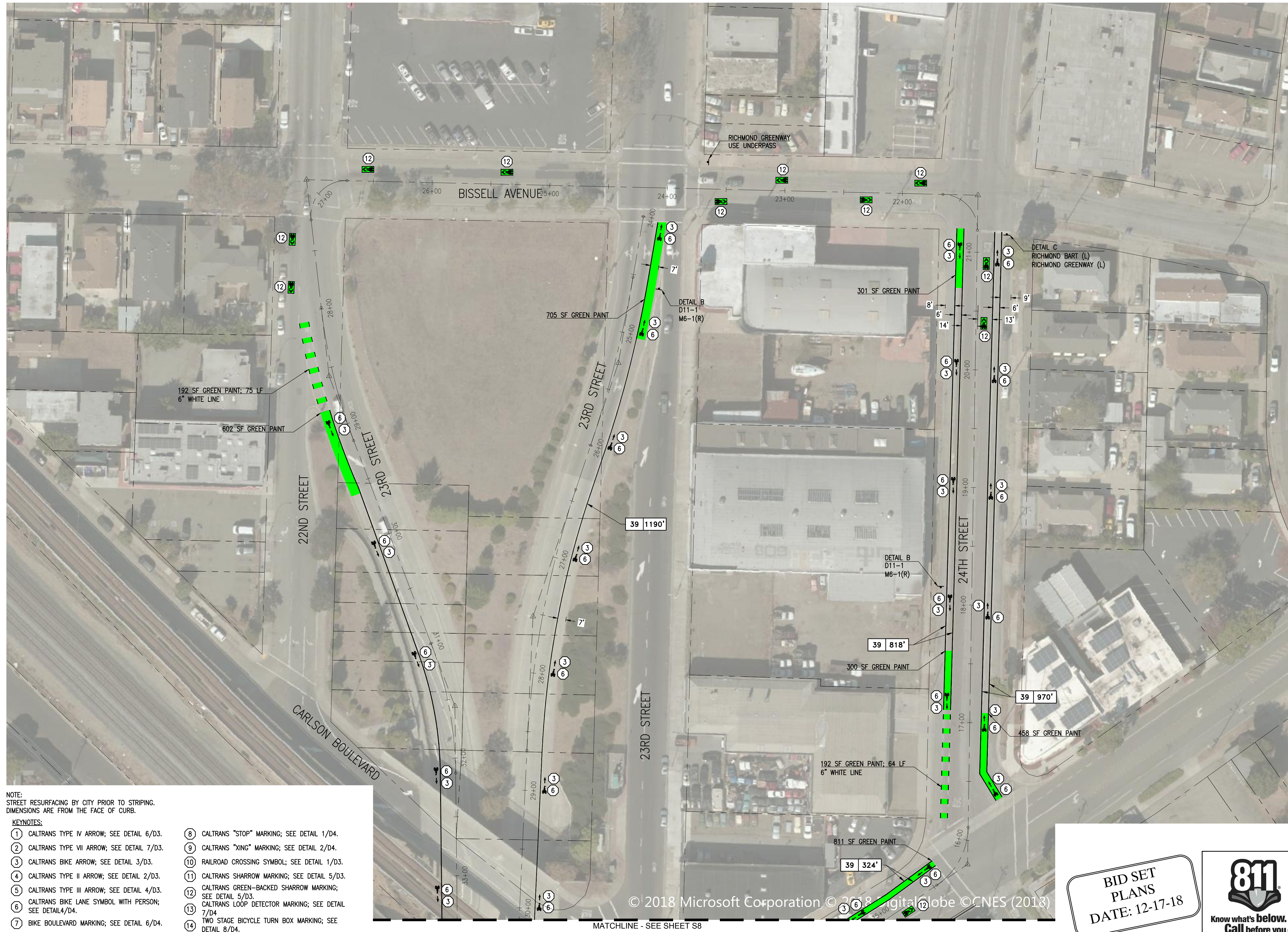
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SHEET TITLE

**STRIPING
BID ALTERNATE 2 -
23RD STREET NORTH**

DRAWING
S9

SHEET 11 OF 20



NOTE:
STREET RESURFACING BY CITY PRIOR TO STRIPING.
DIMENSIONS ARE FROM THE FACE OF CURB.

KEYNOTES:

① CALTRANS TYPE IV ARROW; SEE DETAIL 6/D3.	⑧ CALTRANS "STOP" MARKING; SEE DETAIL 1/D4.
② CALTRANS TYPE VII ARROW; SEE DETAIL 7/D3.	⑨ CALTRANS "XING" MARKING; SEE DETAIL 2/D4.
③ CALTRANS BIKE ARROW; SEE DETAIL 1/D3.	⑩ RAILROAD CROSSING SYMBOL; SEE DETAIL 1/D3.
④ CALTRANS TYPE II ARROW; SEE DETAIL 2/D3.	⑪ CALTRANS SHARROW MARKING; SEE DETAIL 5/D3.
⑤ CALTRANS TYPE III ARROW; SEE DETAIL 4/D3.	⑫ CALTRANS GREEN-BACKED SHARROW MARKING; SEE DETAIL 5/D3.
⑥ CALTRANS BIKE LANE SYMBOL WITH PERSON; SEE DETAIL 4/D4.	⑬ CALTRANS LOOP DETECTOR MARKING; SEE DETAIL 7/D4.
⑦ BIKE BOULEVARD MARKING; SEE DETAIL 6/D4.	⑭ TWO STAGE BICYCLE TURN BOX MARKING; SEE DETAIL 8/D4.

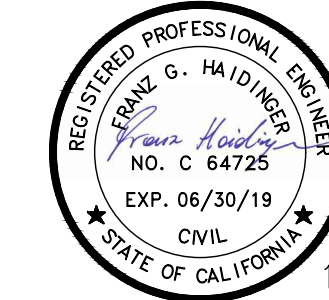
**BID SET
PLANS
DATE: 12-17-18**



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MATCHLINE - SEE SHEET S8

P:\Users\Project\MyView Projects\Richmond City - 4588\568.45.55 - Short-term Bicycle & Pedestrian Connections with Richmond Greenway\23rd Street\23rd Street\23rd Street\23rd Street.dwg
 Plotted: Dec 19, 2018 @ 1:35pm | 10mm x 22in | Layout: S9



12/17/18

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804



NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	JRS
DRAWN BY:	MDG
CHECKED BY:	FGH
DATE:	12/13/18
DATE:	12/17/18

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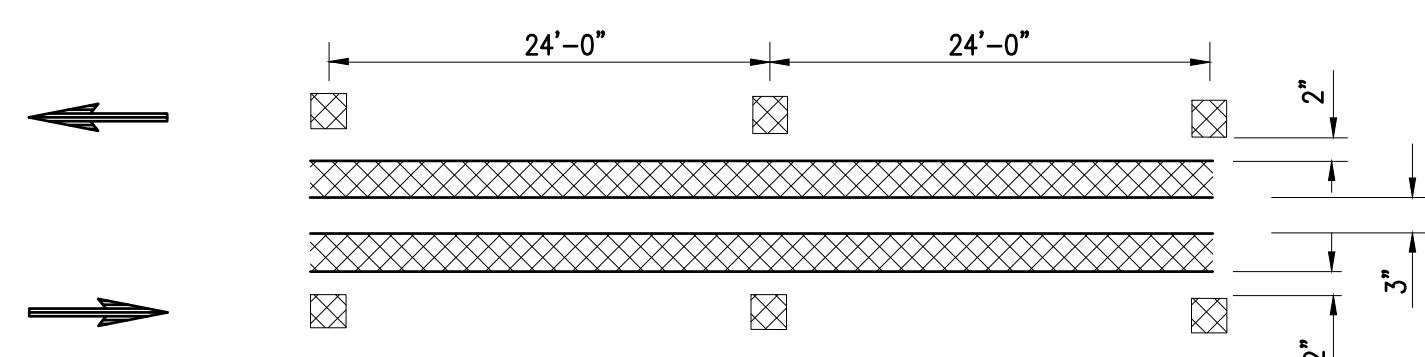
SHEET TITLE

STRIPING AND MARKING DETAILS 1

DRAWING

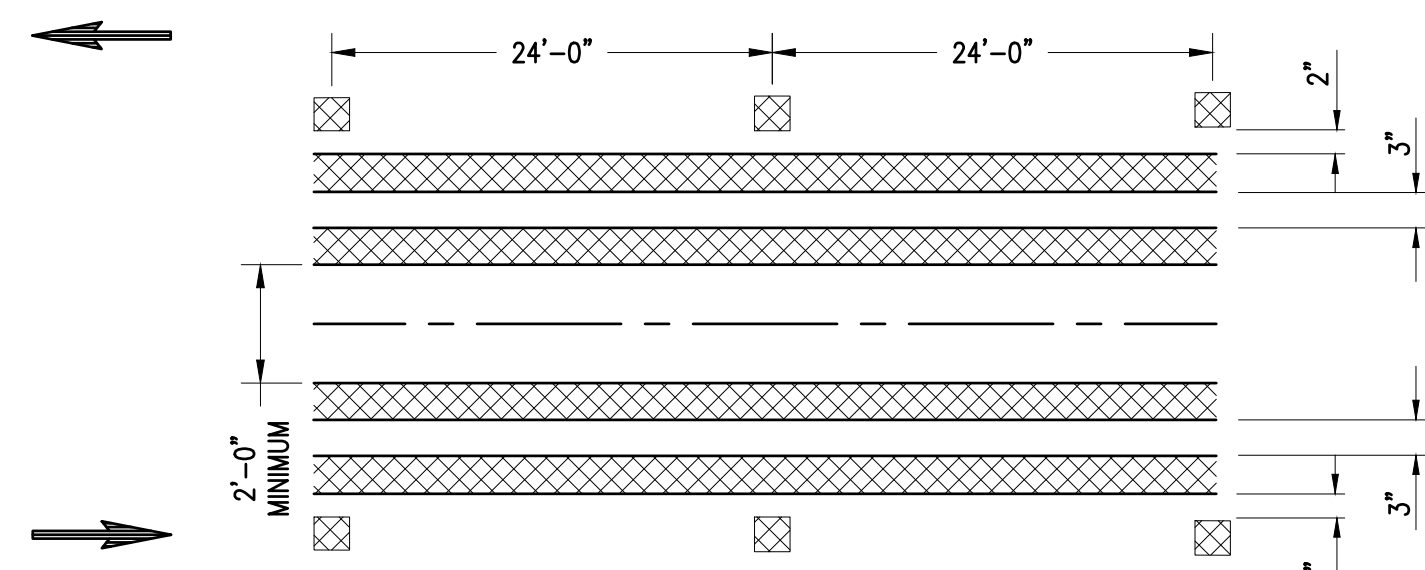
D2

SHEET 13 OF 20



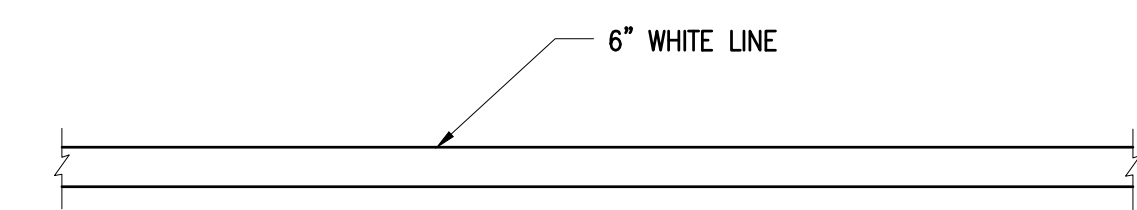
1 CALTRANS STRIPING DETAIL 22
D2 N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS" A20A



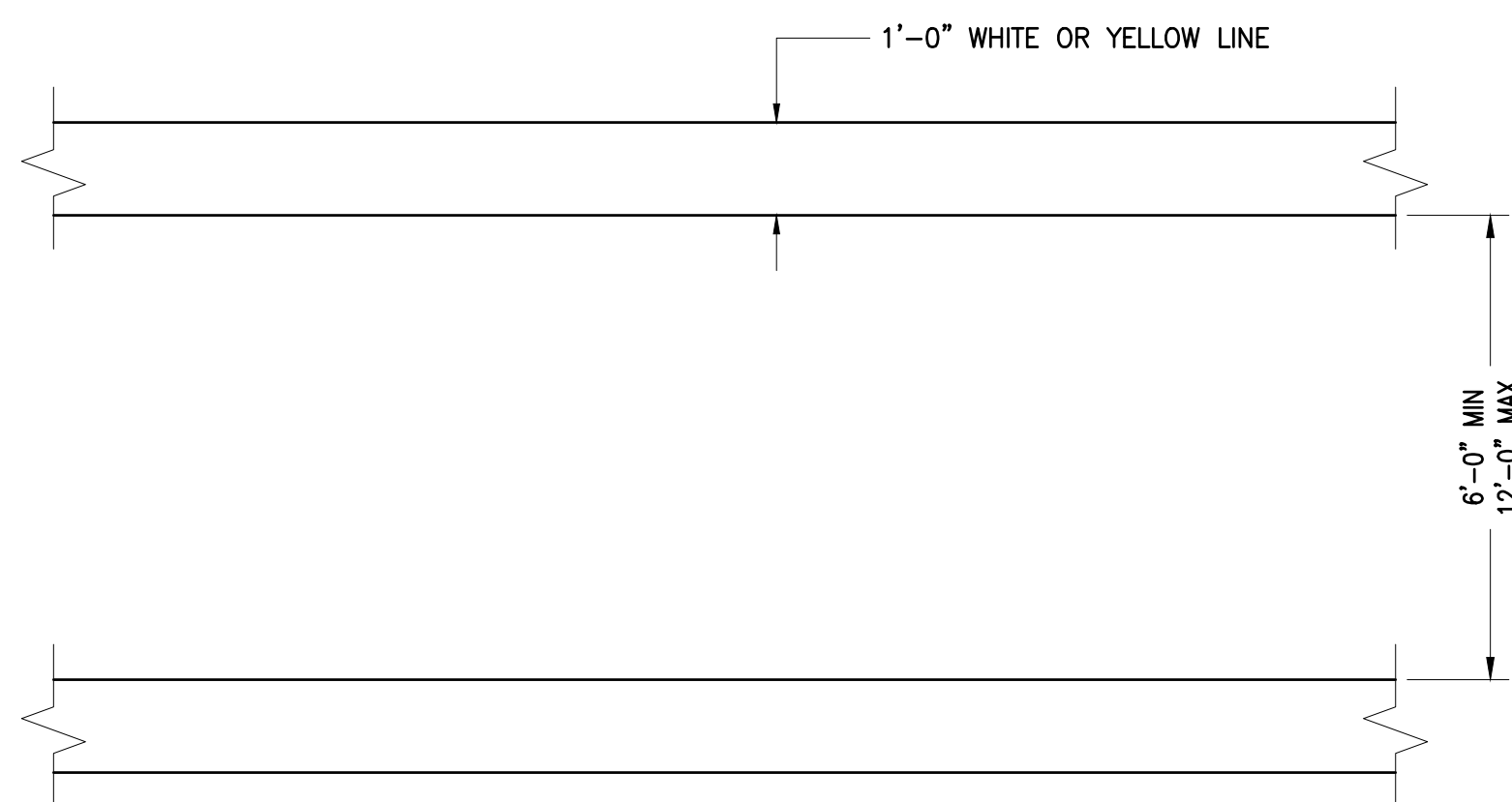
4 CALTRANS STRIPING DETAIL 29
D2 N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS" A20B



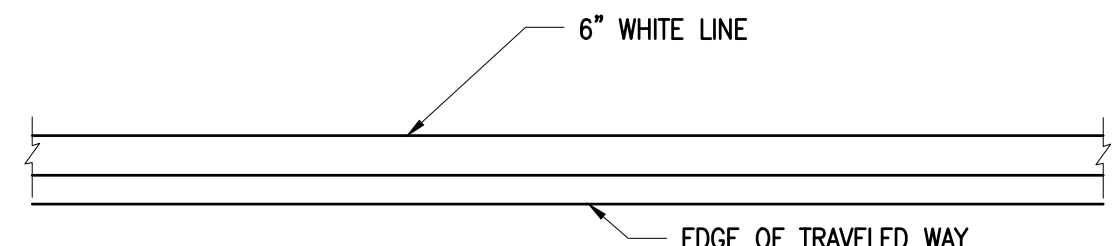
7 CALTRANS STRIPING DETAIL 39
D2 N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS" A20D



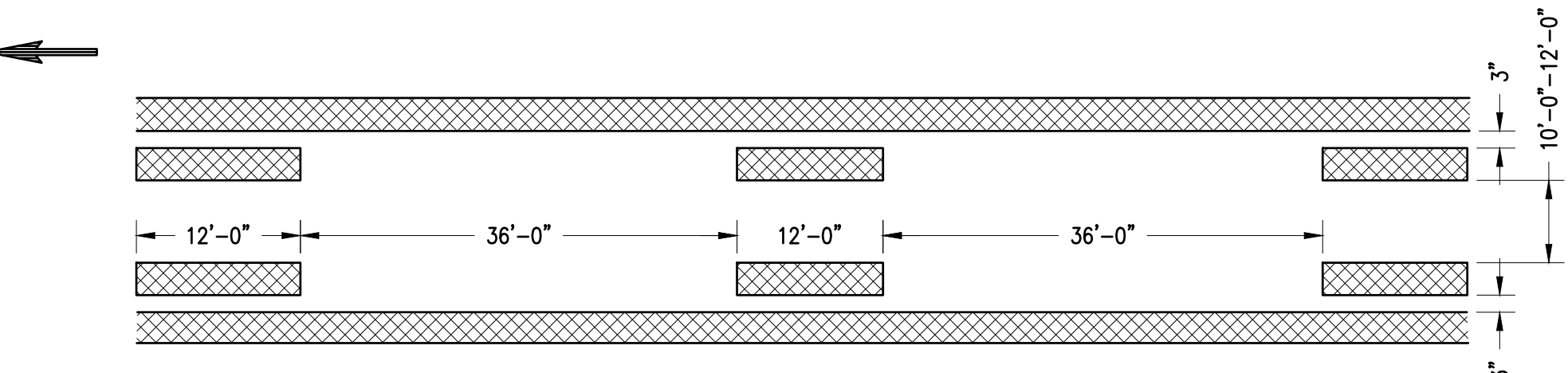
10 CALTRANS BASIC CROSSWALK
D2 N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKINGS CROSSWALKS" A24F



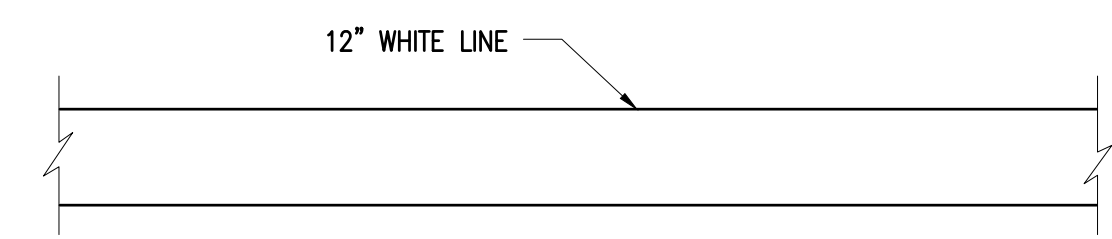
2 CALTRANS STRIPING DETAIL 27B
D2 N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS" A20B



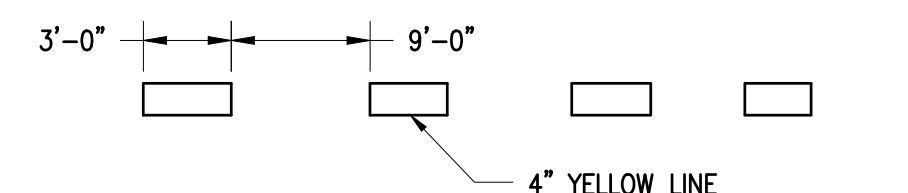
5 CALTRANS STRIPING DETAIL 31
D2 N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS" A20B



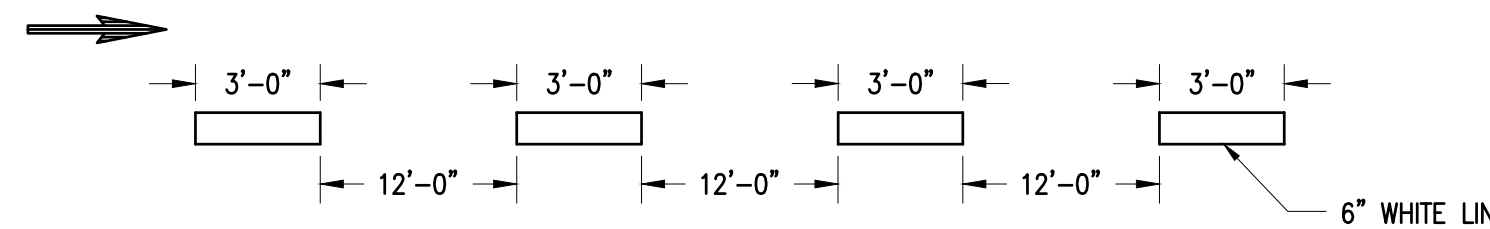
8 CALTRANS LIMIT LINE / STOP BAR
D2 N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKINGS WORDS, LIMIT AND YIELD LINES" A24E



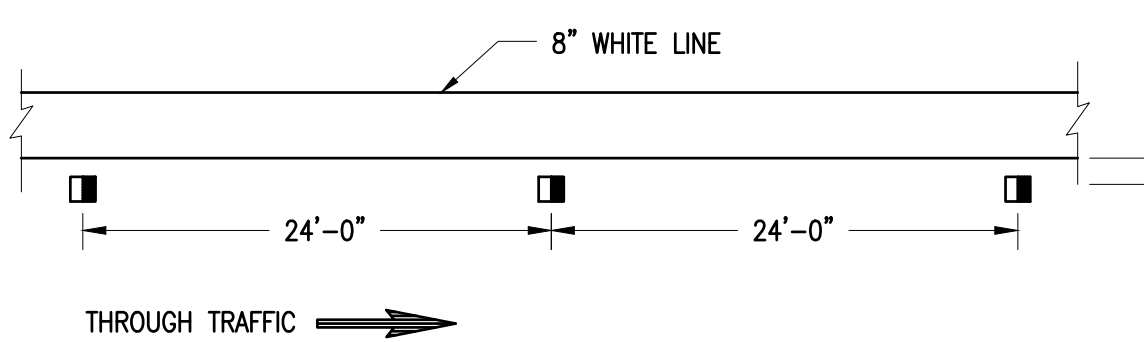
9 BIKE CENTERLINE
D2 N.T.S.

N.T.S.



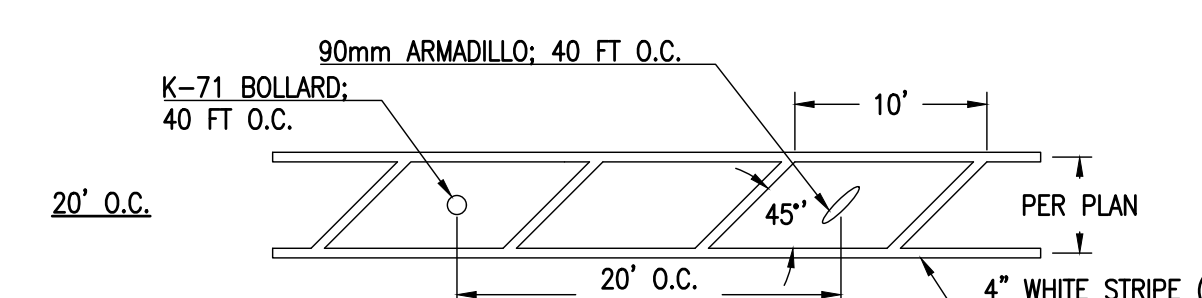
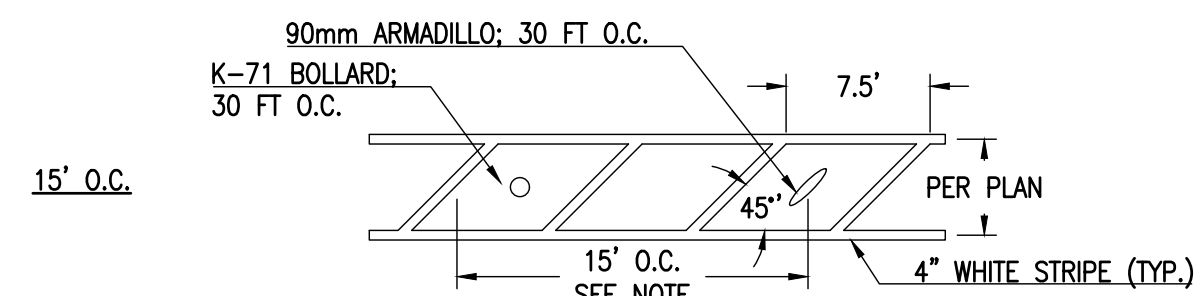
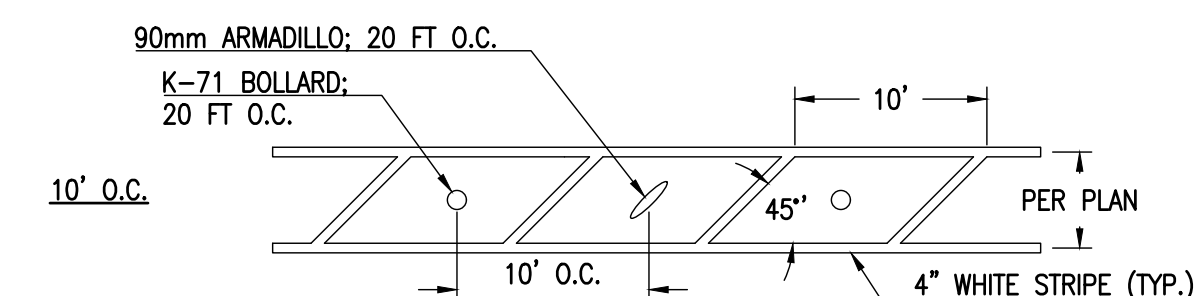
3 CALTRANS STRIPING DETAIL 27C
D2 N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS" A20D



6 CALTRANS STRIPING DETAIL 38
D2 N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS" A20D



12 STRIPED BIKE BUFFER WITH ARMADILLOS AND BOLLARDS
D2 N.T.S.

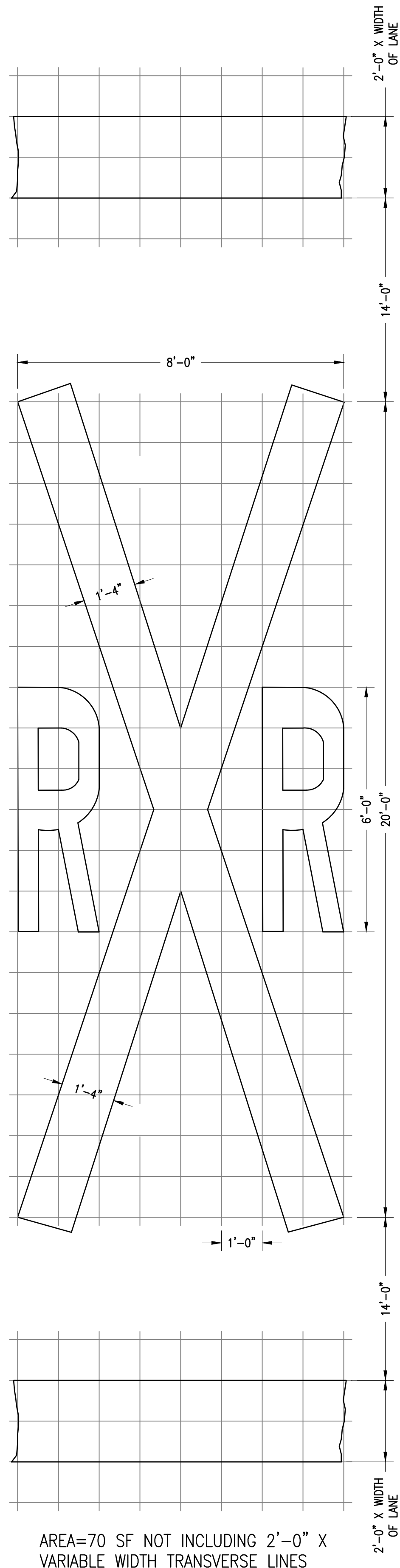
NOTE: ALTERNATE BOLLARDS AND ARMADILLOS UNLESS OTHERWISE NOTED. NO ARMADILLOS OR BOLLARDS SHALL BE PLACED WITHIN 10 FEET OF RAILROAD CENTERLINE. NO ARMADILLOS OR BOLLARDS SHALL BE PLACED WITHIN 15 FEET OF THE EDGE OF A DRIVEWAY.

BID SET PLANS
DATE: 12-17-18

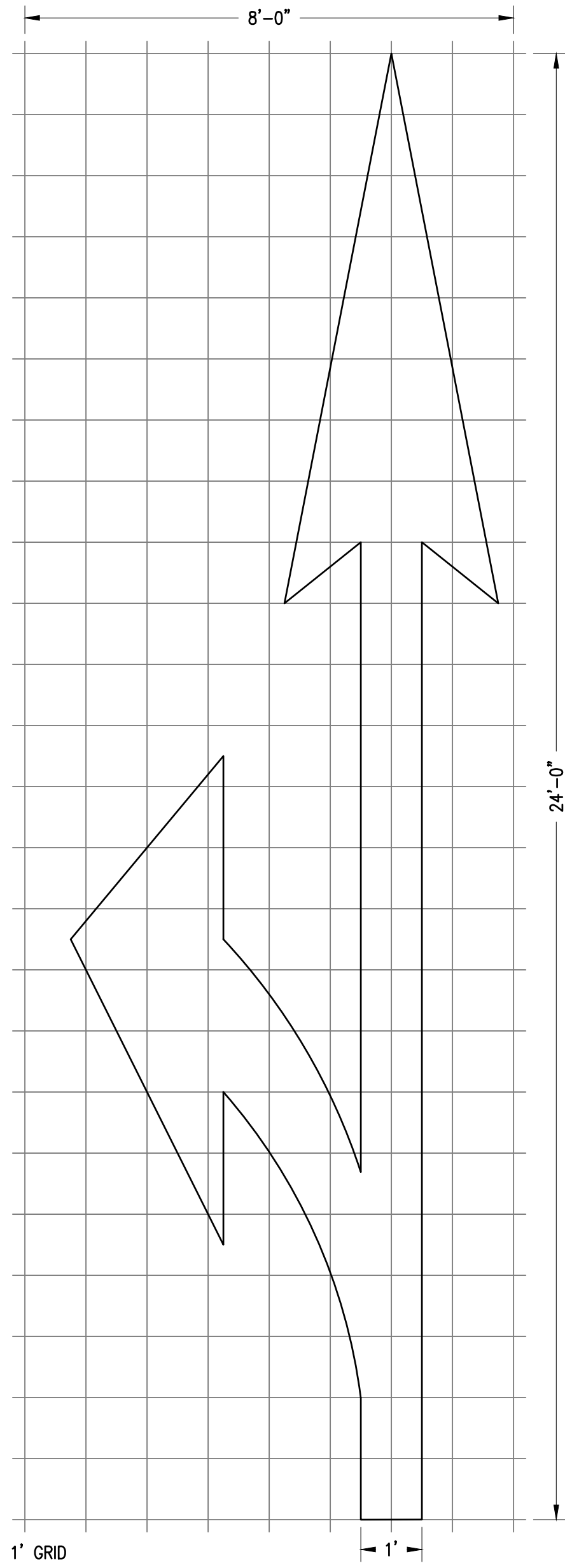


Know what's below.
Call before you dig.

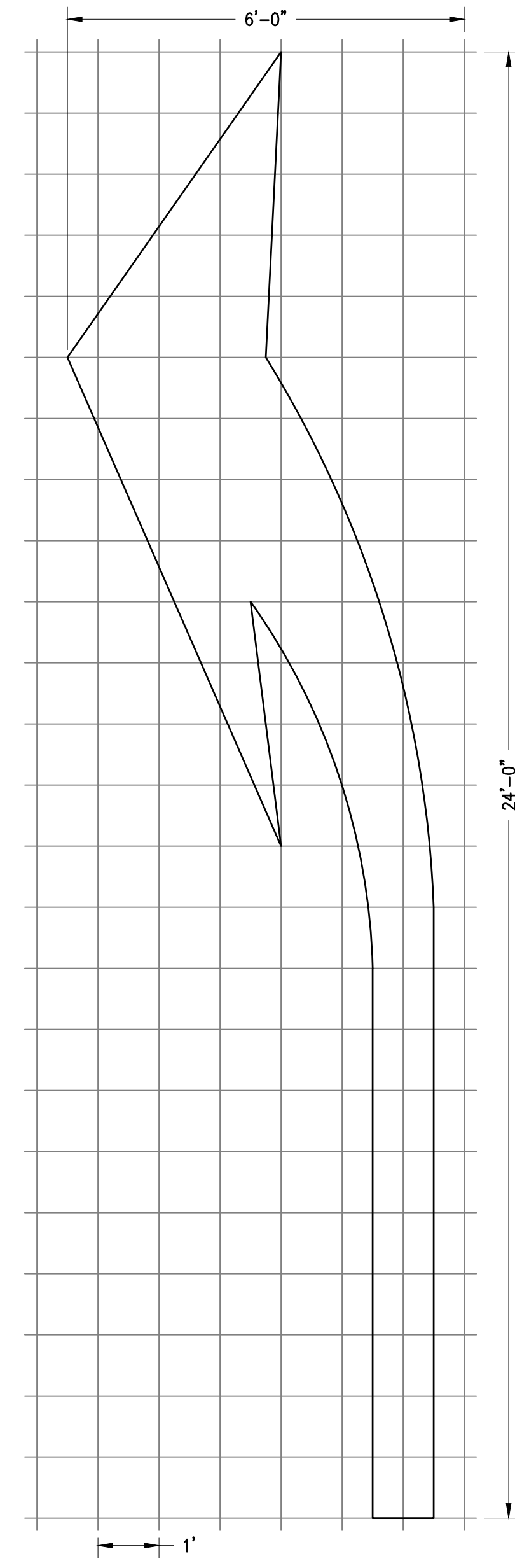
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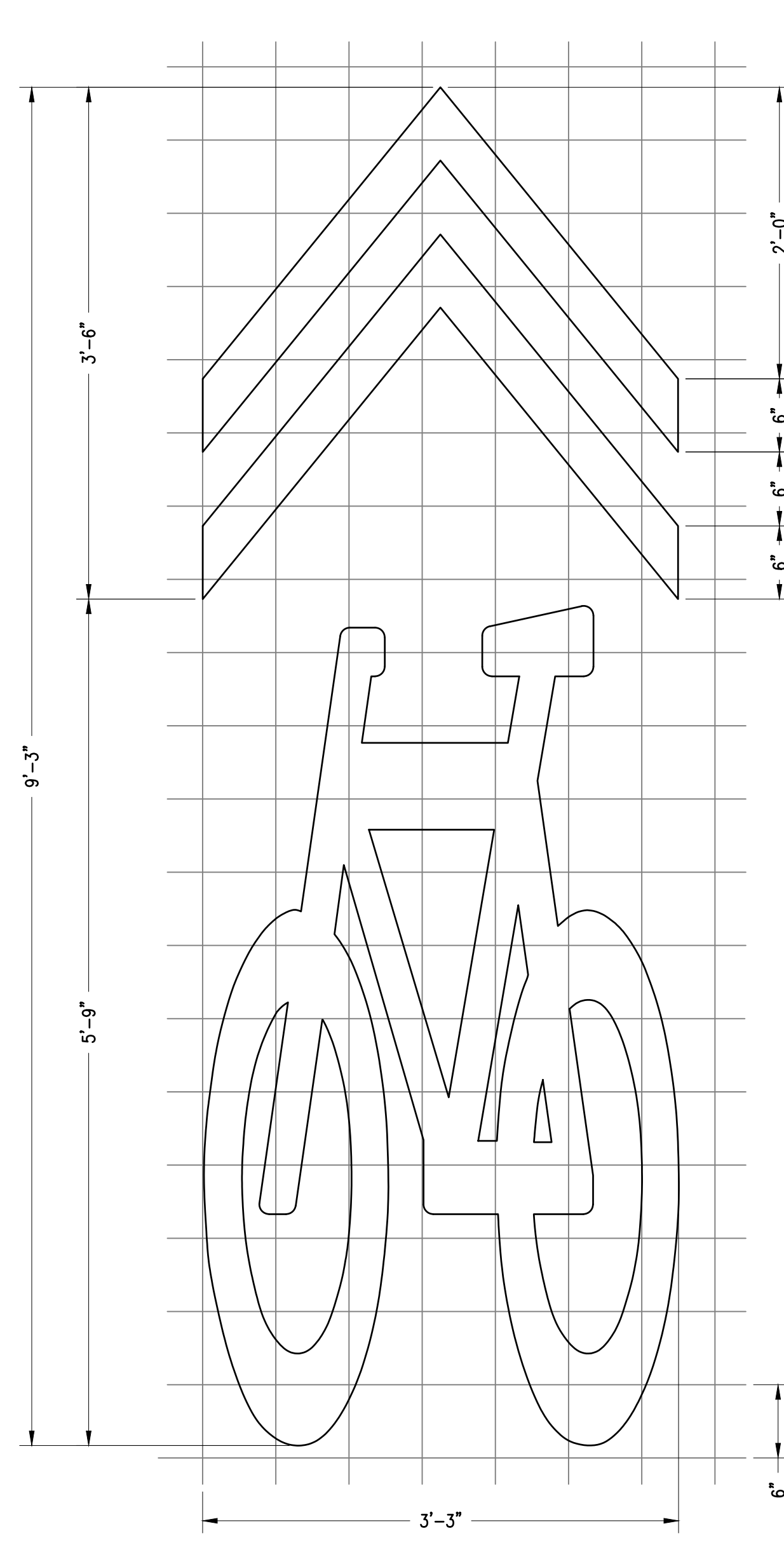
1
D3 RAILROAD CROSSING SYMBOL
 N.T.S.



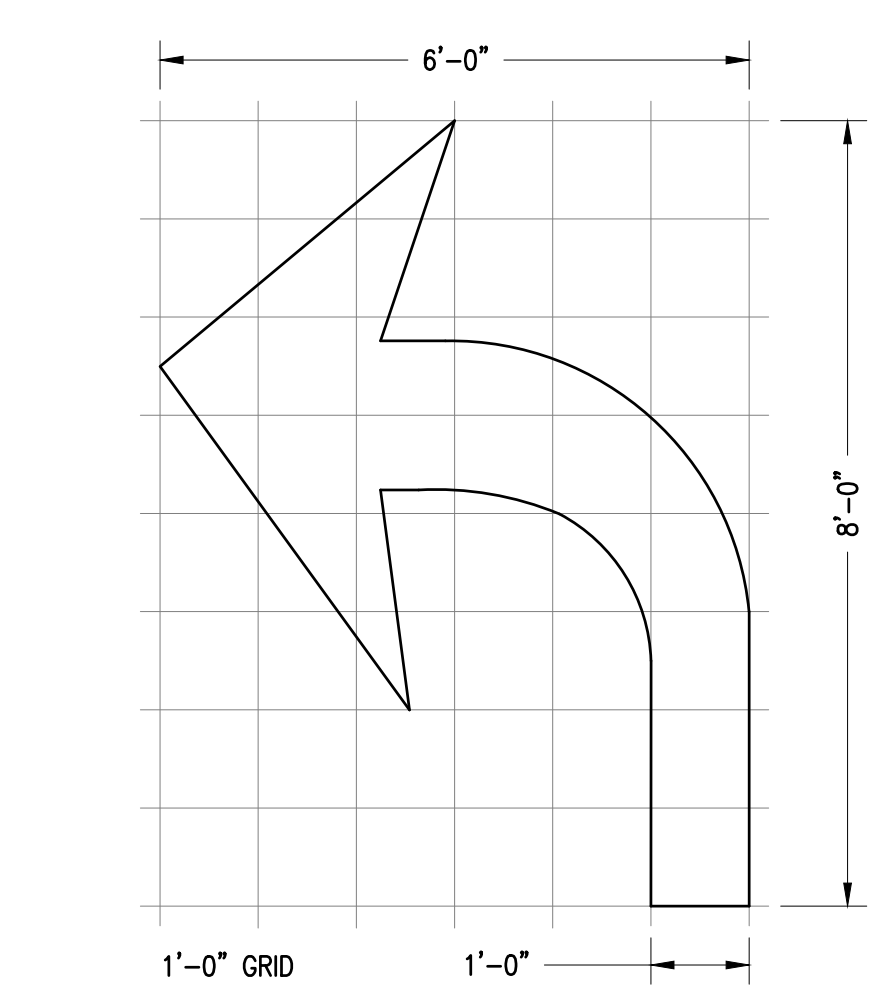
AREA=45 SF
2
D3 CALTRANS TYPE II (L) ARROW
 N.T.S.
 NOTE: FOR TYPE II (R) ARROW USE MIRROR IMAGE.



AREA=42 SF
4
D3 CALTRANS TYPE III (L) ARROW
 N.T.S.
 NOTE: FOR TYPE III (R) ARROW USE MIRROR IMAGE.

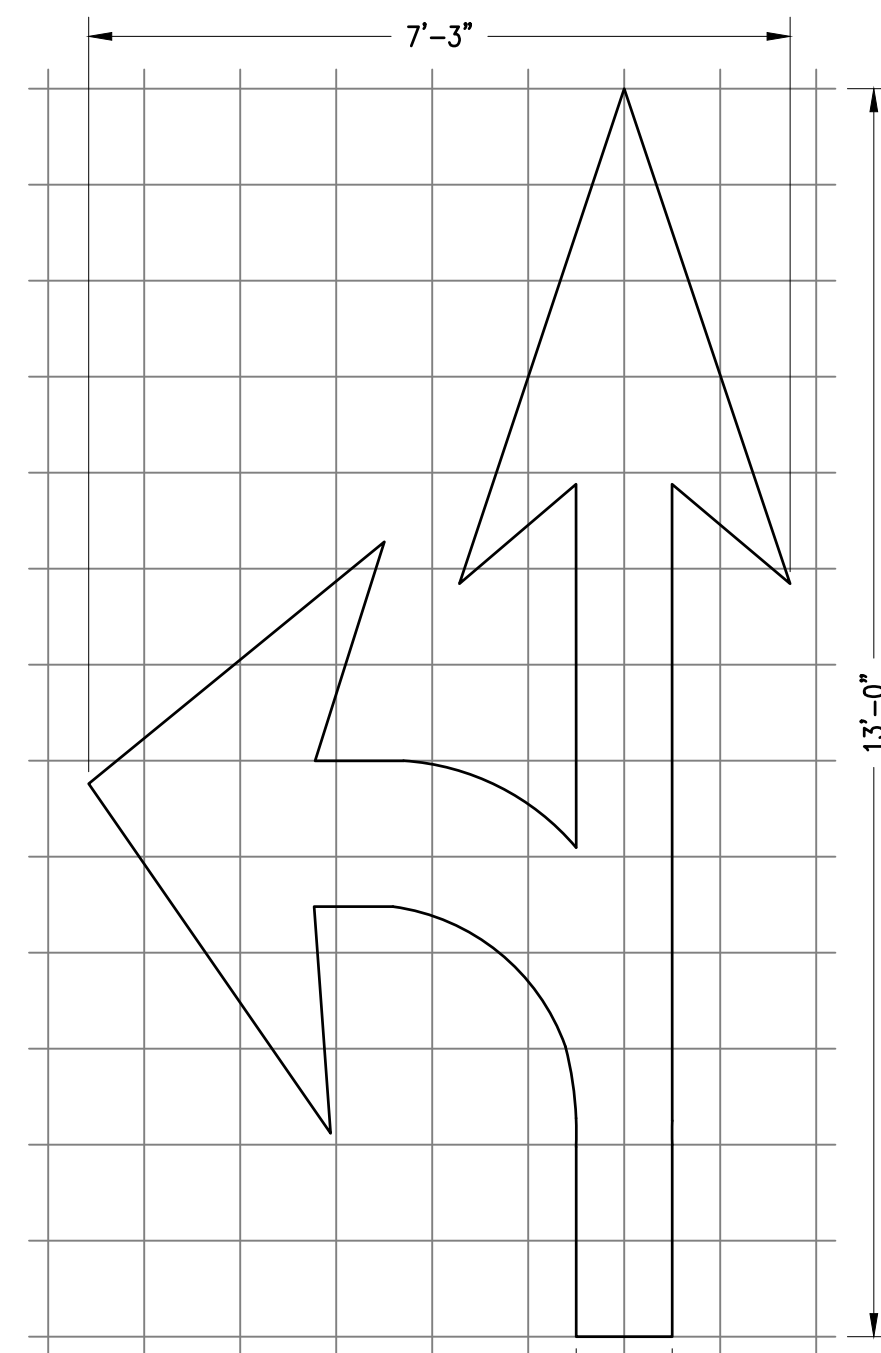


AREA=11.5 SF
5
D3 CALTRANS SHARROW MARKING
 N.T.S.



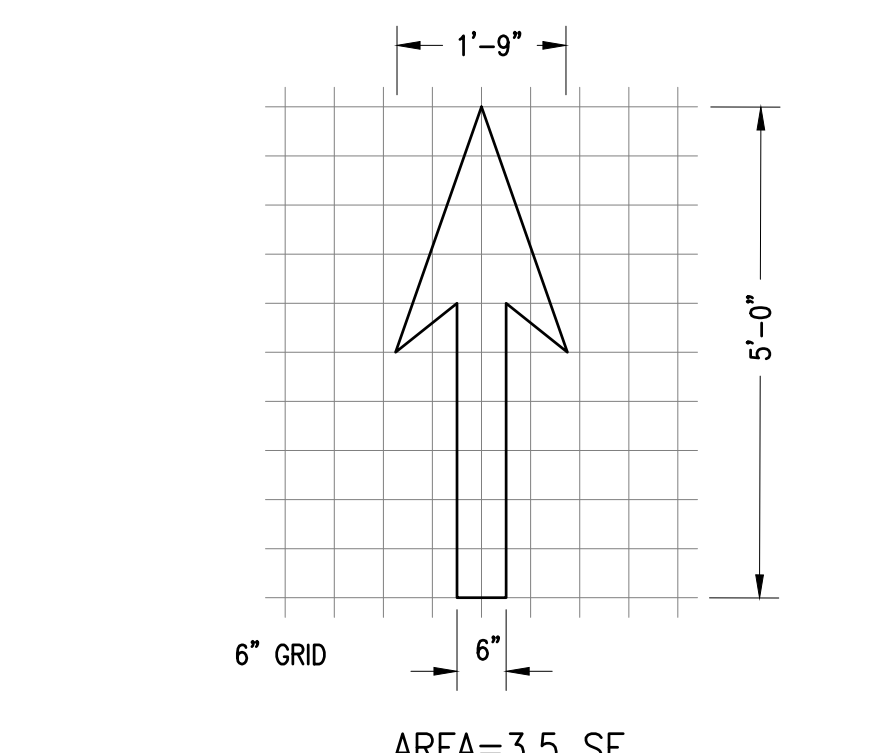
AREA=15 SF
6
D3 CALTRANS TYPE IV (L) ARROW MARKING
 N.T.S.

NOTES:
 1) FOR TYPE IV (R) ARROW, USE MIRROR IMAGE.
 SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKINGS ARROWS" A24A

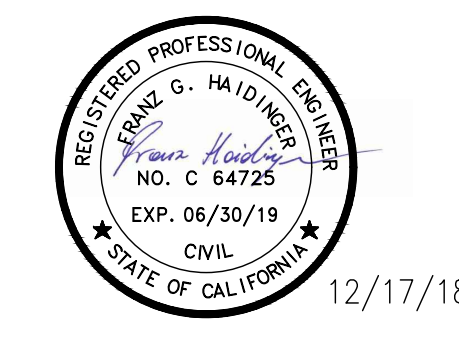


AREA=27 SF
7
D3 CALTRANS TYPE VII ARROW
 N.T.S.

NOTES:
 1) FOR TYPE VII (L) ARROW, USE MIRROR IMAGE.
 SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKINGS ARROWS" A24A

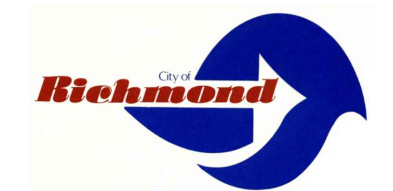


AREA=3.5 SF
3
D3 CALTRANS BIKE LANE ARROW
 N.T.S.



SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER
CITY OF RICHMOND
 450 CIVIC CENTER PLAZA
 RICHMOND, CA 94804



NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	JRS
DRAWN BY:	MDG
CHECKED BY:	FGH
DATE:	12/13/18
DATE:	12/17/18

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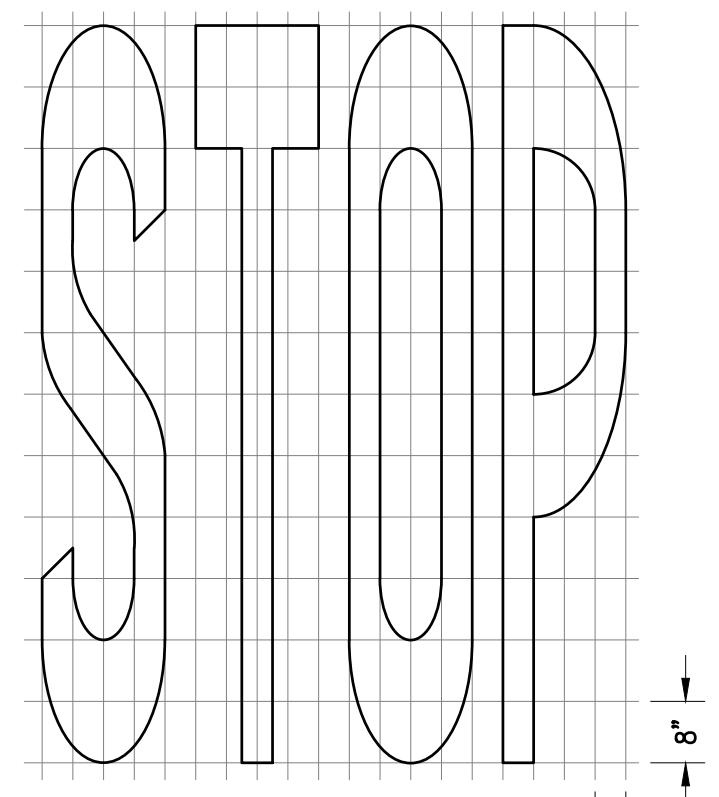
SHEET TITLE
STRIPING AND MARKING DETAILS 2

DRAWING	D3
SHEET	14 OF 20

BID SET PLANS
DATE: 12-17-18



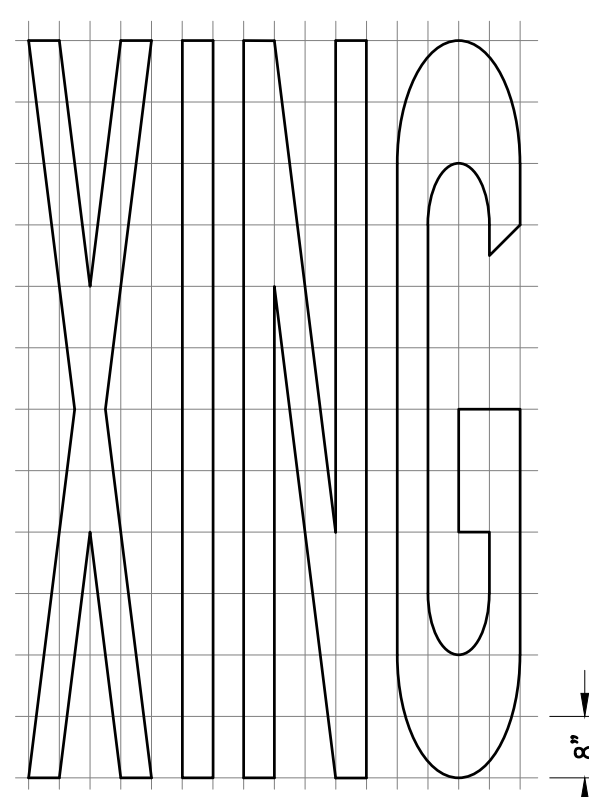
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AREA=22 SF

1
D4 CALTRANS "STOP" MARKING
N.T.S.

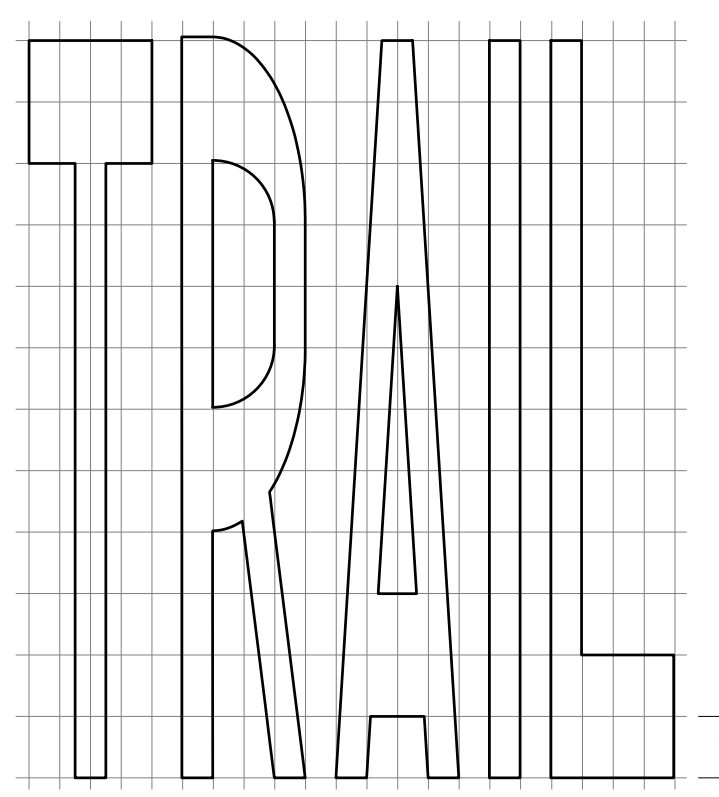
SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKINGS WORDS" A24D



AREA=21 SF

2
D4 CALTRANS "XING" MARKING
N.T.S.

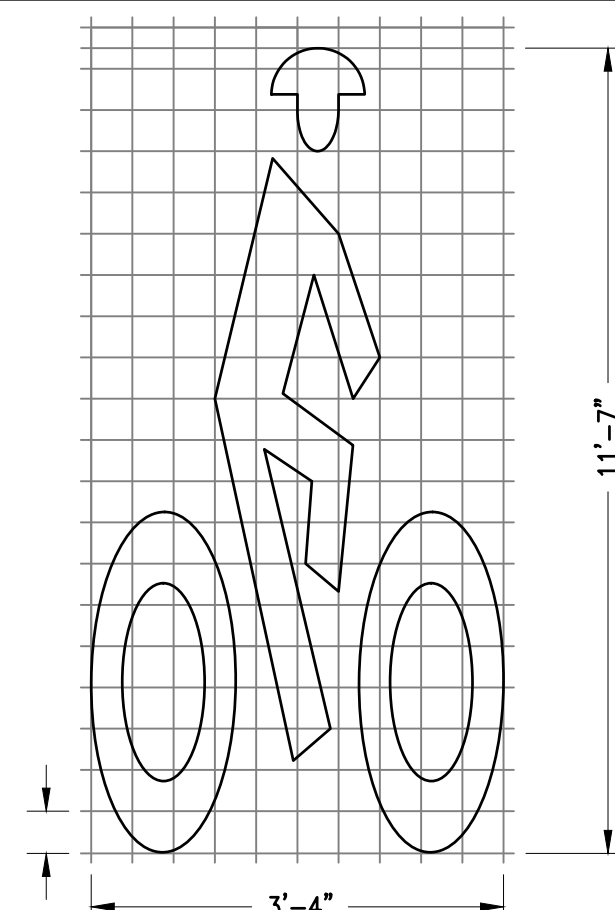
SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKINGS WORDS" A24D



AREA=23 SF

3
D4 CALTRANS "TRAIL" MARKING
N.T.S.

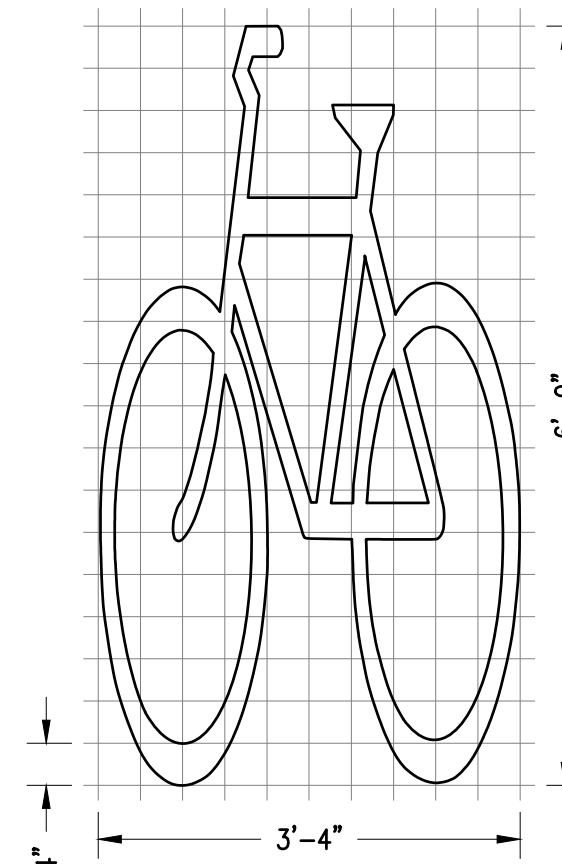
SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKINGS WORDS" A24D



AREA=7 SF

4
D4 CALTRANS BIKE WITH PERSON MARKING
N.T.S.

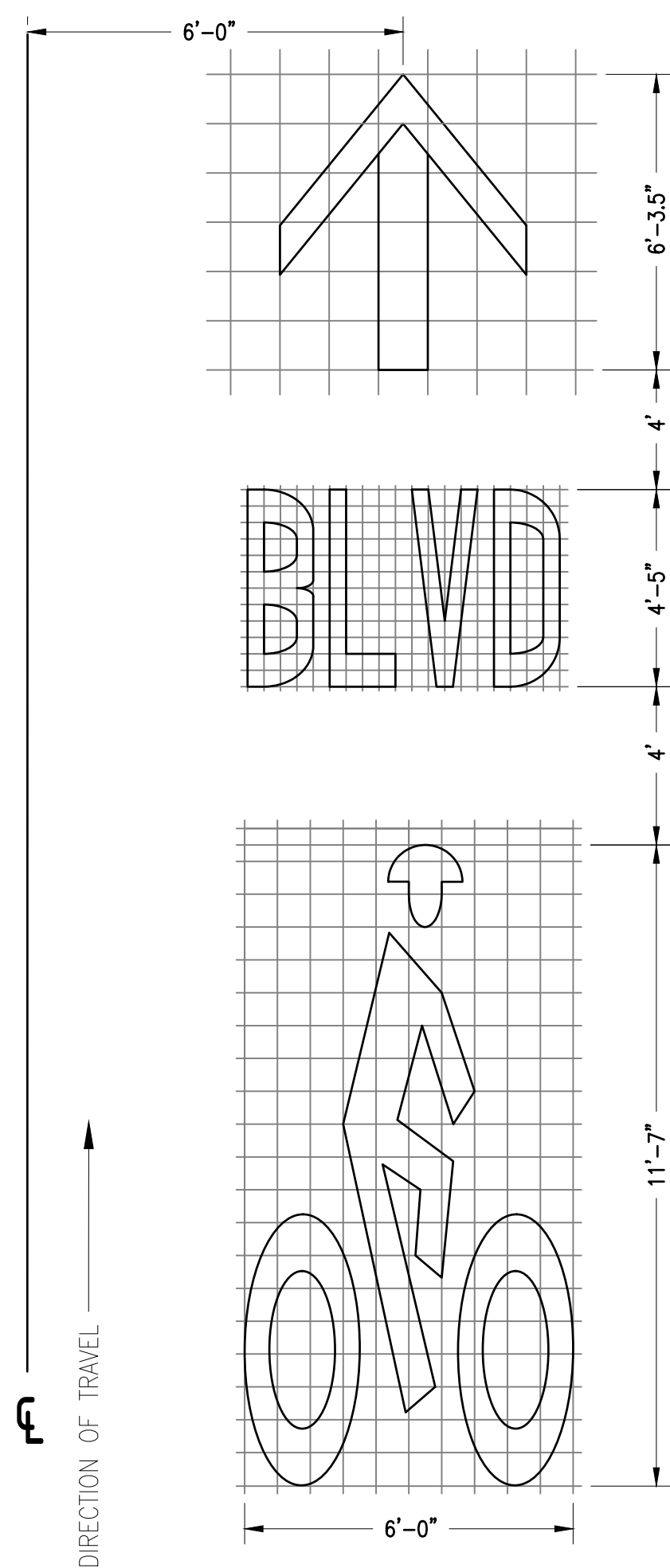
SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKINGS WORDS" A24D



AREA=7 SF

5
D4 CALTRANS BIKE WITHOUT PERSON MARKING
N.T.S.

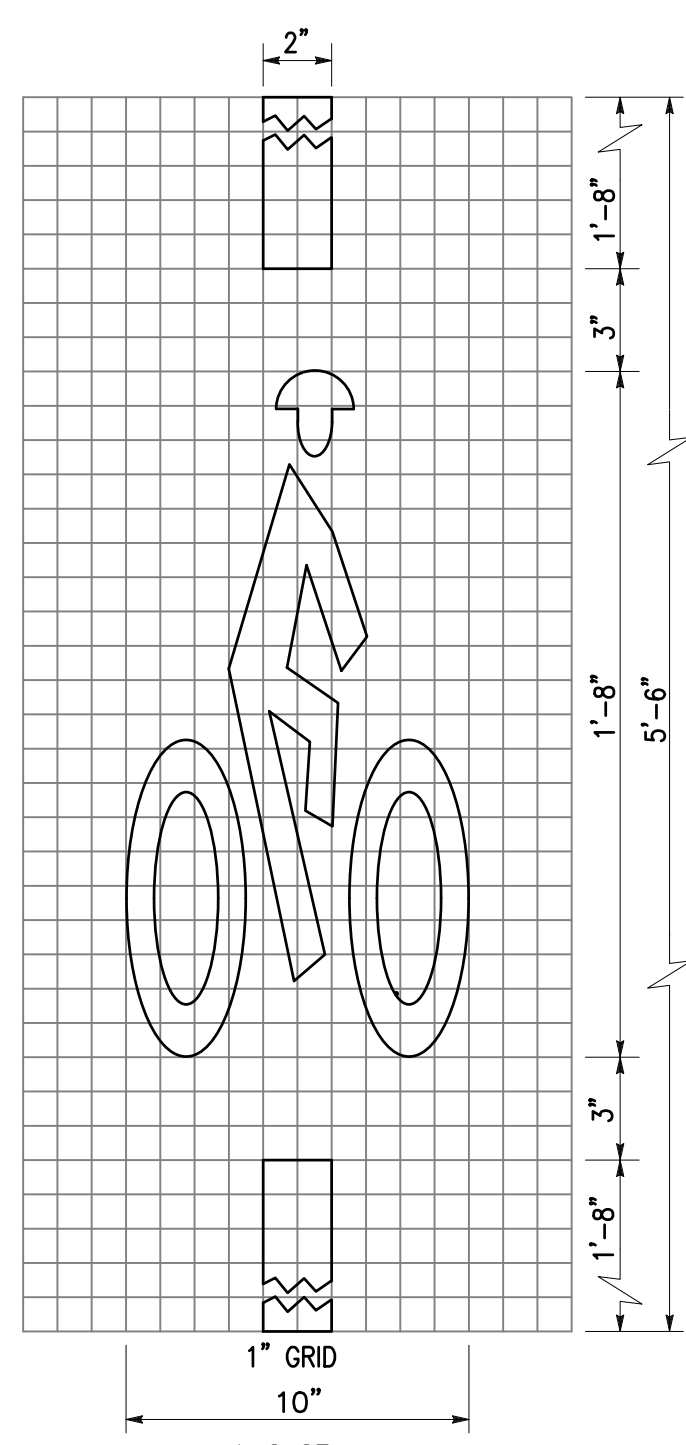
SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKINGS WORDS" A24D



AREA=47 SF

6
D4 BIKE BOULEVARD MARKING
N.T.S.

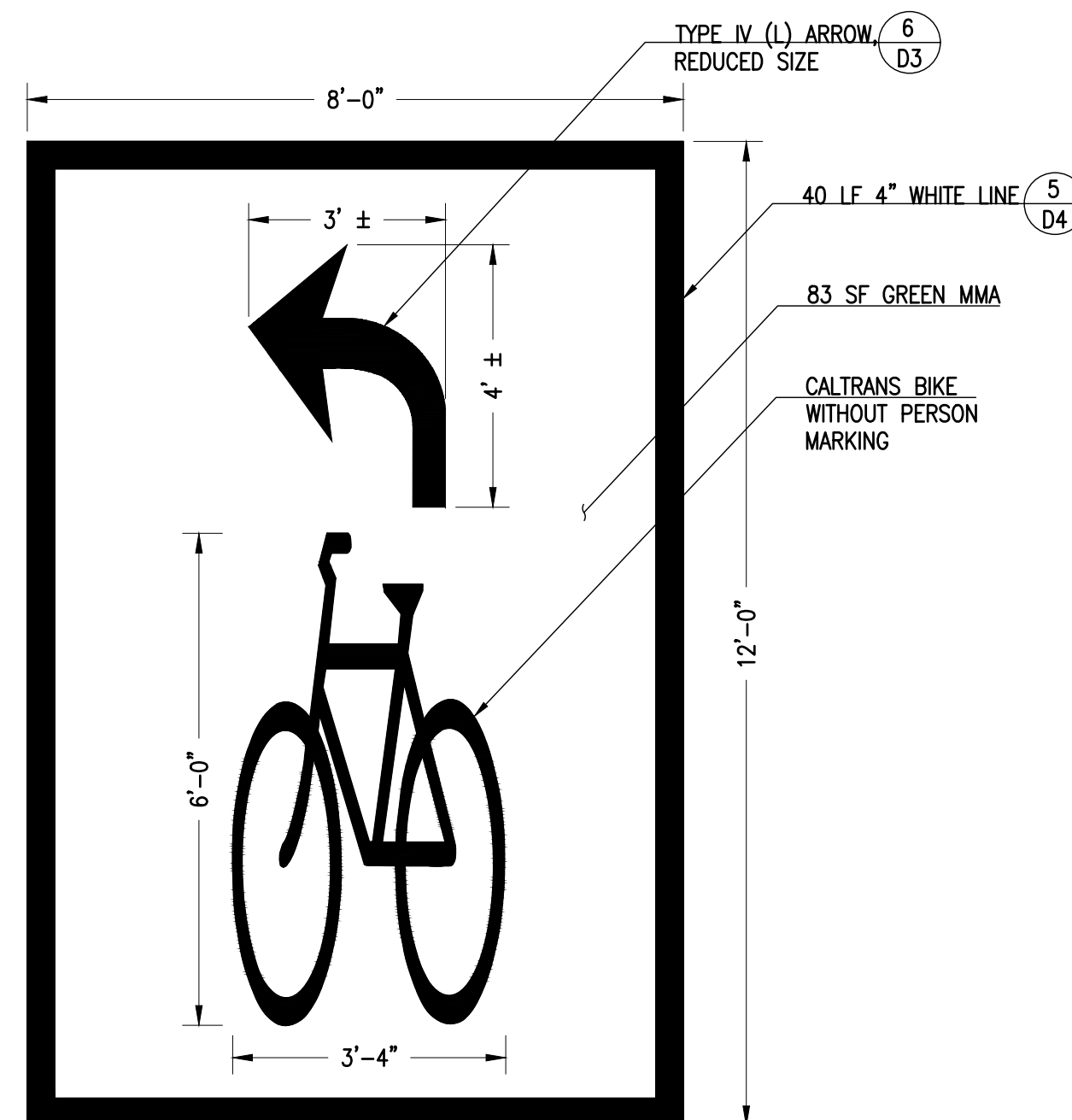
SOURCE: MODIFIED FROM "BIKE LANE SYMBOL WITH PERSON" FROM CALTRANS, "PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS A24C"



A=2 SF

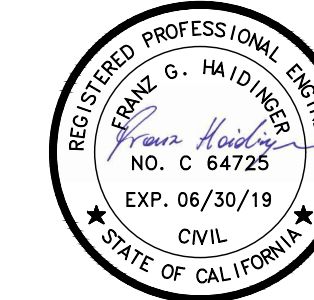
7
D4 CALTRANS BICYCLE LOOP DETECTOR MARKING
N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKINGS WORDS" A24D



8
D4 TWO-STAGE BICYCLE TURN BOX MARKING
N.T.S.

SOURCE: CALTRANS STANDARD PLANS "PAVEMENT MARKINGS WORDS" A24D



12/17/18

SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
 450 CIVIC CENTER PLAZA
 RICHMOND, CA 94804



NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	JRS
DRAWN BY:	MDG
CHECKED BY:	FGH
DATE:	12/13/18
DATE:	12/17/18

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SHEET TITLE

STRIPING AND MARKING DETAILS 3

DRAWING **D4**

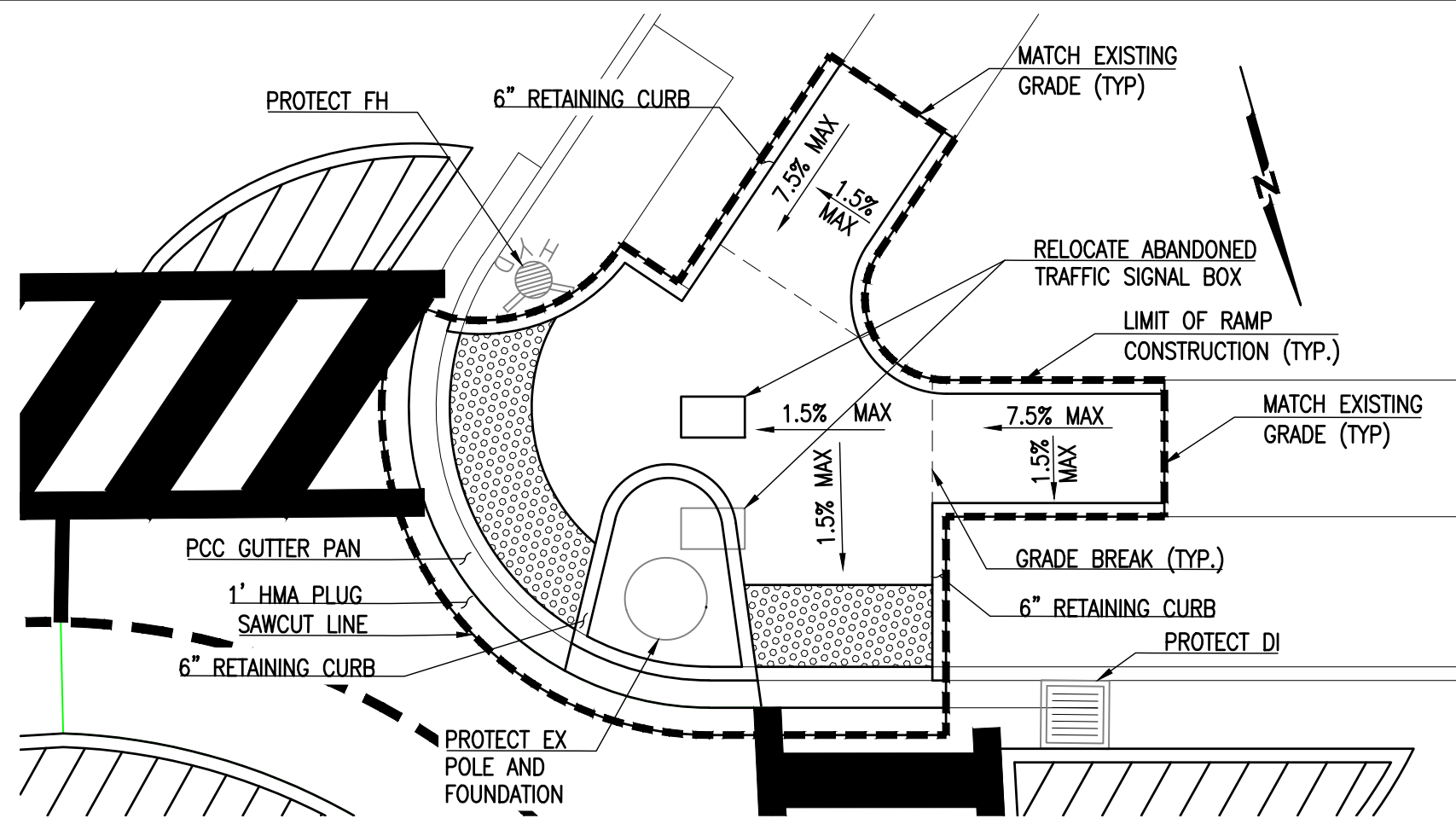
SHEET 15 OF 20

BID SET PLANS
DATE: 12-17-18

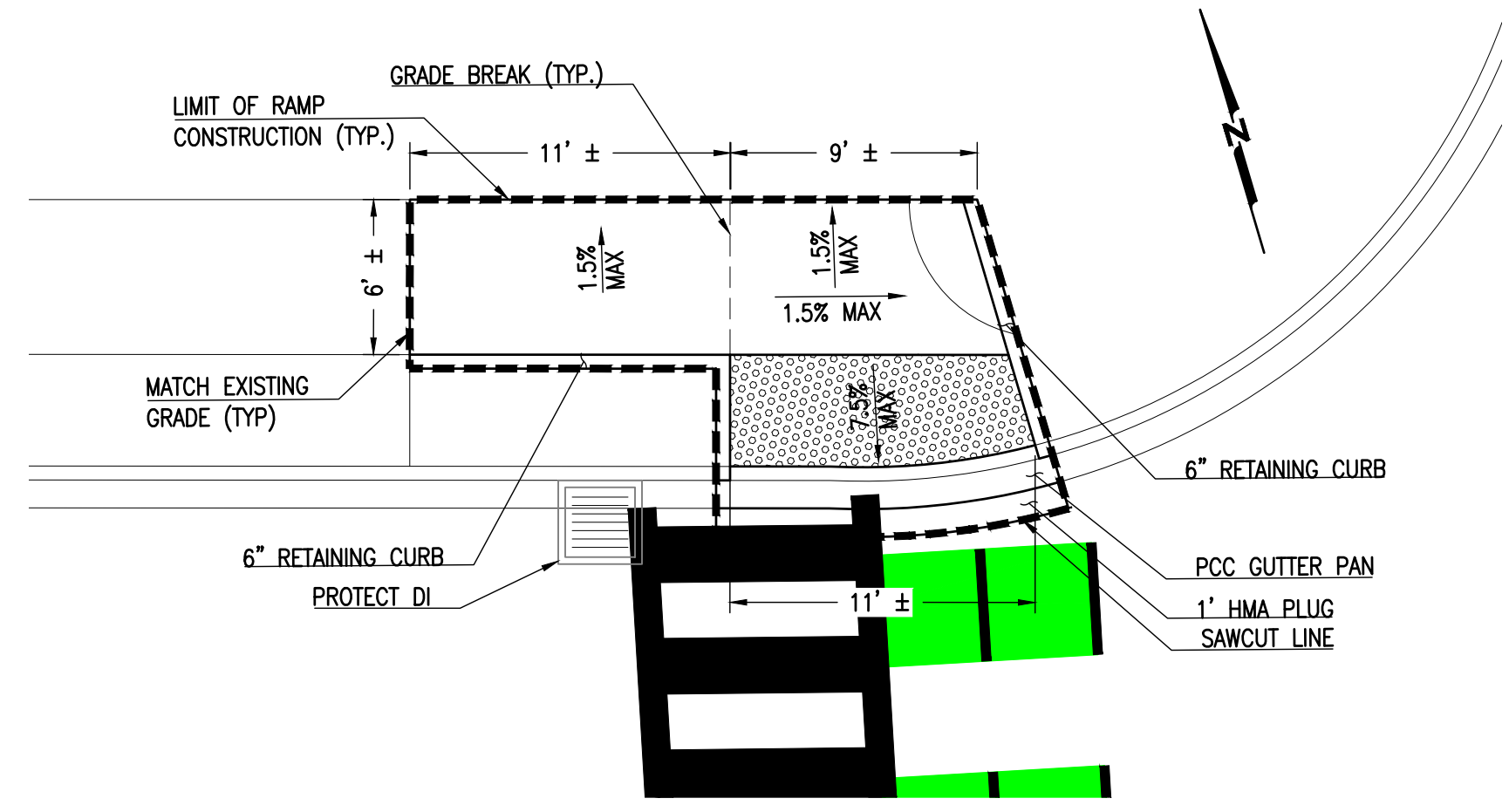


Know what's below.
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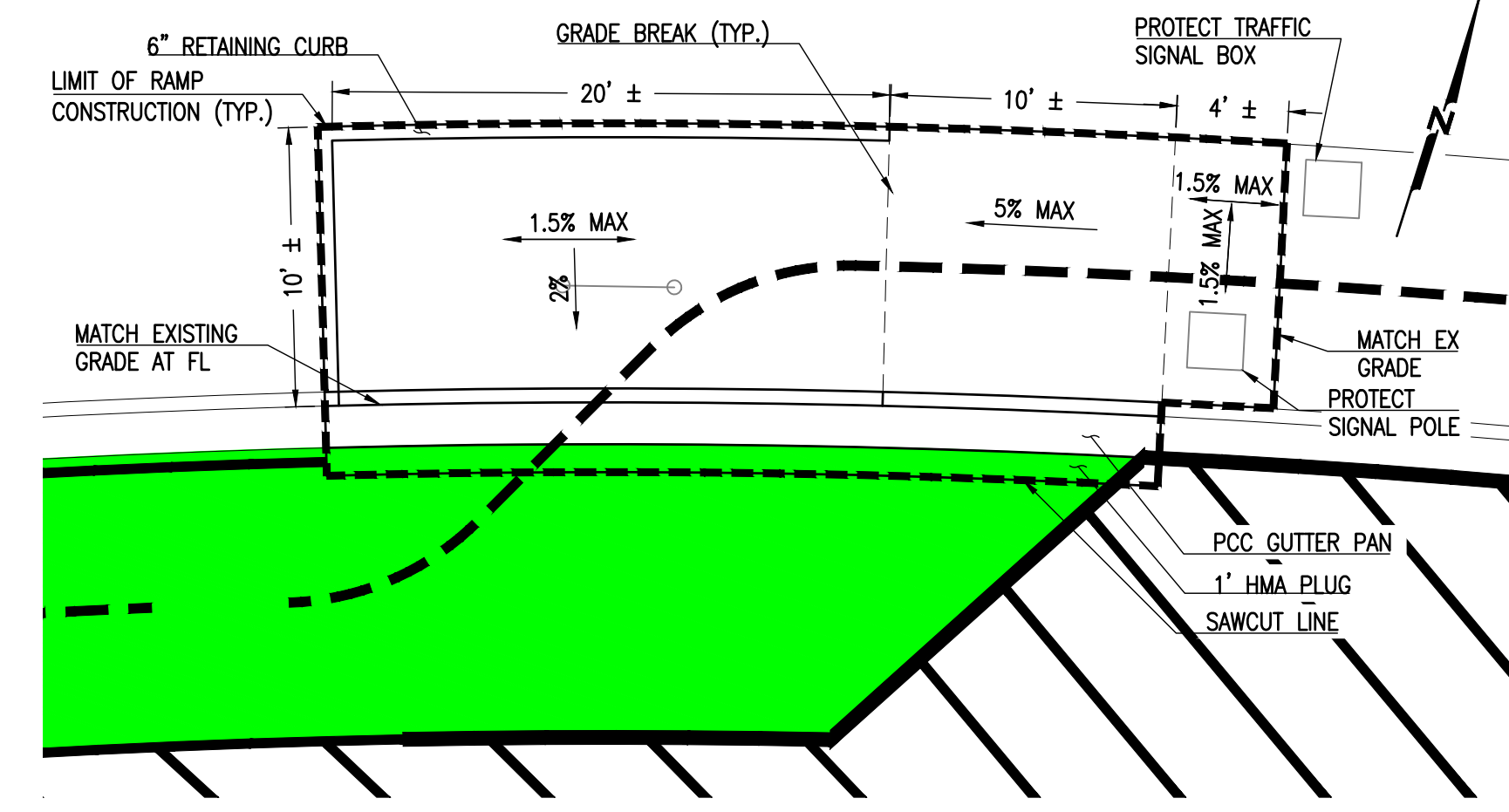
File: \\nash\projects\active_projects\Richmond_City - 811 - Short-term Bicycle & Pedestrian Connections with 811 Bridge\CD\Sheets\DW - Ramps.dwg | Layout: D5 | Printed Date: 12/13/18 @ 1:52pm | 10 mg 22.6 (LWS Team)



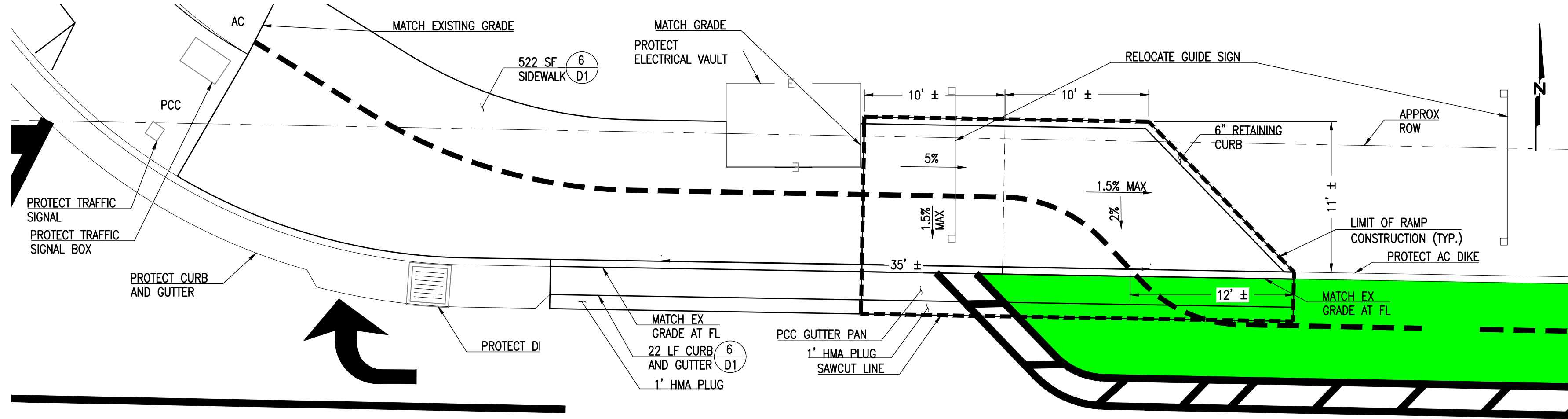
1
D5
TEWSBURY AVENUE AND CASTRO STREET (SW CORNER)
1" = 6"



2
D5
TEWSBURY AVENUE AND CASTRO STREET (NW CORNER)
1" = 6"



3
D5
W OHIO AVENUE AND RICHMOND PARKWAY BIKE RAMP (NW CORNER)
1" = 6"



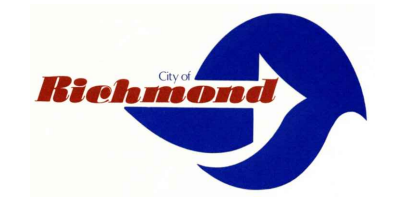
4
D5
W OHIO AVENUE AND RICHMOND PARKWAY BIKE RAMP (NE CORNER)
1" = 6"

NCE
 501 Canal Blvd., Suite 1
 Richmond, Ca. 94804
 (510) 215-3620 * Fax (510) 215-2898



SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND - SAN RAFAEL BRIDGE

OWNER
CITY OF RICHMOND
 450 CIVIC CENTER PLAZA
 RICHMOND, CA 94804



NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	JRS
DRAWN BY:	MDG
CHECKED BY:	FGH
DATE:	12/13/18
DATE:	12/17/18

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SHEET TITLE	
RAMP DETAILS	
DRAWING	D5
SHEET	16 OF 20

BID SET PLANS
DATE: 12-17-18





SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND-SAN RAFAEL BRIDGE

OWNER

CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804



NO.	DATE	DESCRIPTION

NO.	DATE	DESCRIPTION
PROJECT NO:		568.45.55
DESIGNED BY:		RM
DRAWN BY:		JM
CHECKED BY:	RM	DATE: 12/17/18
DATE:		12/17/18

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SHEET TITLE

WAYFINDING SIGNS

DRAWING	D6
SHEET	17 OF 20



DETAIL 'A'
N.T.S



DETAIL 'B'
N.T.S



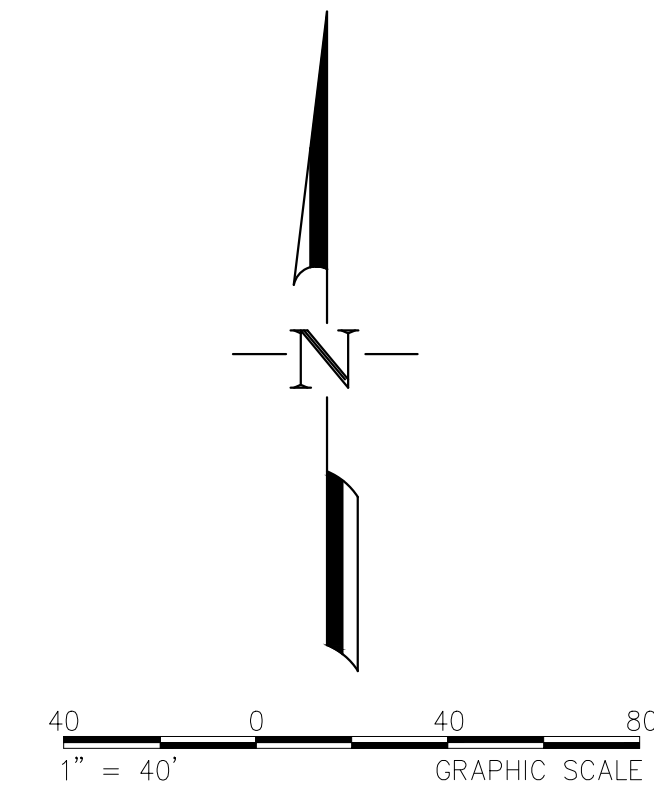
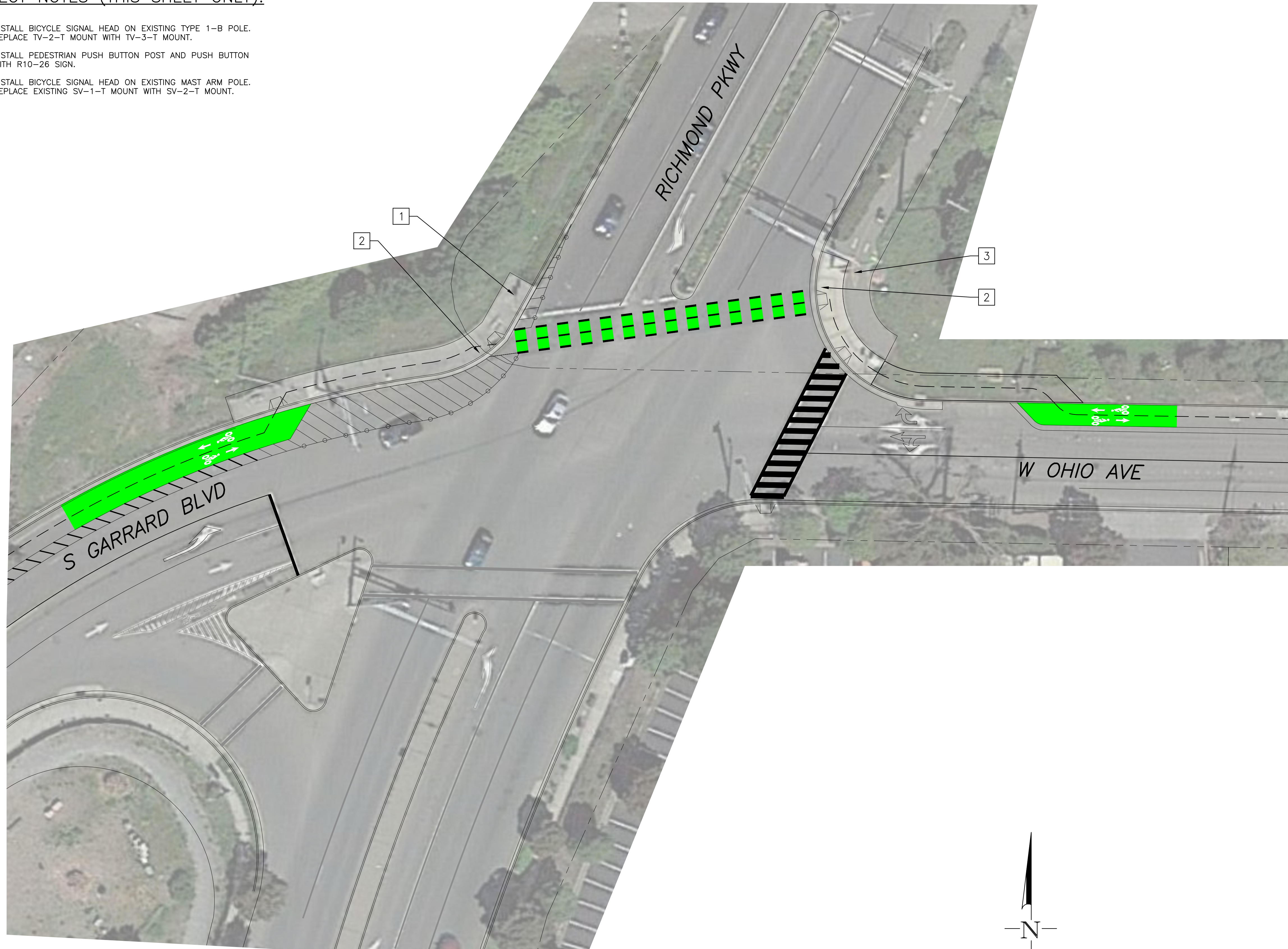
DETAIL 'C'
N.T.S

BID SET
PLANS
DATE: 12-17-18



PROJECT NOTES (THIS SHEET ONLY):

- 1 INSTALL BICYCLE SIGNAL HEAD ON EXISTING TYPE 1-B POLE. REPLACE TV-2-T MOUNT WITH TV-3-T MOUNT.
- 2 INSTALL PEDESTRIAN PUSH BUTTON POST AND PUSH BUTTON WITH R10-26 SIGN.
- 3 INSTALL BICYCLE SIGNAL HEAD ON EXISTING MAST ARM POLE. REPLACE EXISTING SV-1-T MOUNT WITH SV-2-T MOUNT.

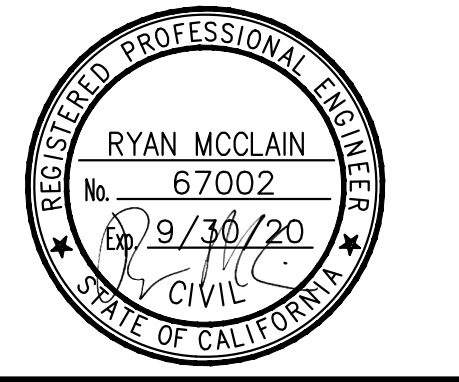


**BID SET
PLANS
DATE: 12-17-18**



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FEHR PEERS
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SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND-SAN RAFAEL BRIDGE

OWNER
CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804



NO.	DATE	DESCRIPTION
PROJECT NO:	568.45.55	
DESIGNED BY:	RM	
DRAWN BY:	JM	
CHECKED BY:	RM	DATE: 12/17/18
DATE:		12/17/18

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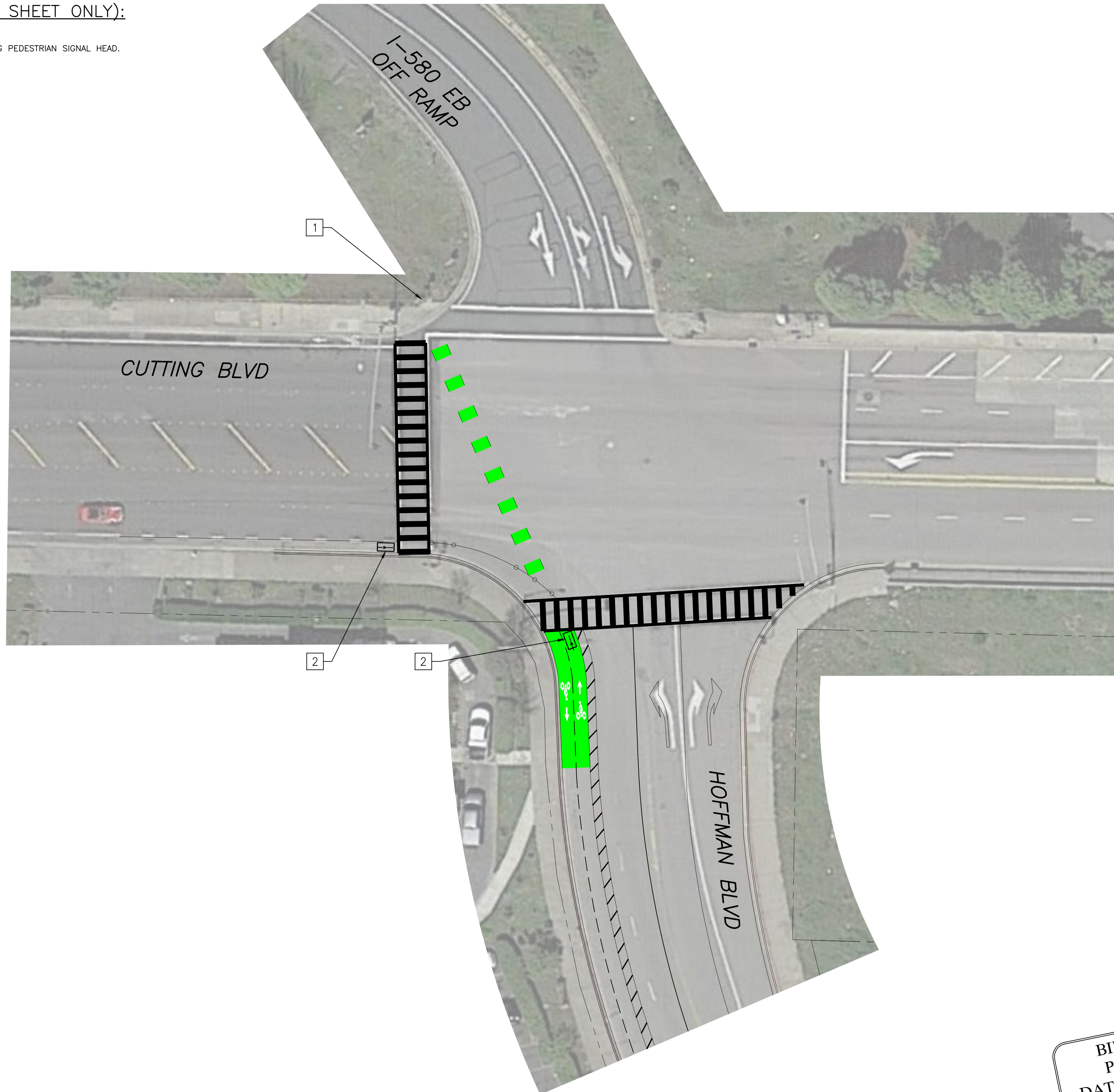
SHEET TITLE
TRAFFIC SIGNAL MODIFICATION PLAN 1
S GARRARD BLVD / W OHIO AVE / RICHMOND PARKWAY

DRAWING	E1
SHEET	18 OF 20

File: N:\PROJECTS\W18\W18-5530.00_Richmond_Ferry_Island_Bridge_Plan\CAD\65_Submittal\3530E1-E3.dwg | Layout: E1 | Printed Dec 19, 2018 @ 11:23am | 10,647,06 (LWS Tech)

PROJECT NOTES (THIS SHEET ONLY):

- 1 INSTALL R9-5 SIGN ABOVE EXISTING PEDESTRIAN SIGNAL HEAD.
- 2 INSTALL BICYCLE LOOP DETECTOR.



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SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND-SAN RAFAEL BRIDGE

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CITY OF RICHMOND
 450 CIVIC CENTER PLAZA
 RICHMOND, CA 94804



NO.	DATE	DESCRIPTION
PROJECT NO:	568.45.55	
DESIGNED BY:	RM	
DRAWN BY:	JM	
CHECKED BY:	RM	DATE: 12/17/18
DATE:		12/17/18

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SHEET TITLE
TRAFFIC SIGNAL MODIFICATION PLAN 2
 CUTTING BLVD / HOFFMAN BLVD / I-580 EB OFF RAMP

DRAWING
E2
 SHEET 19 OF 20

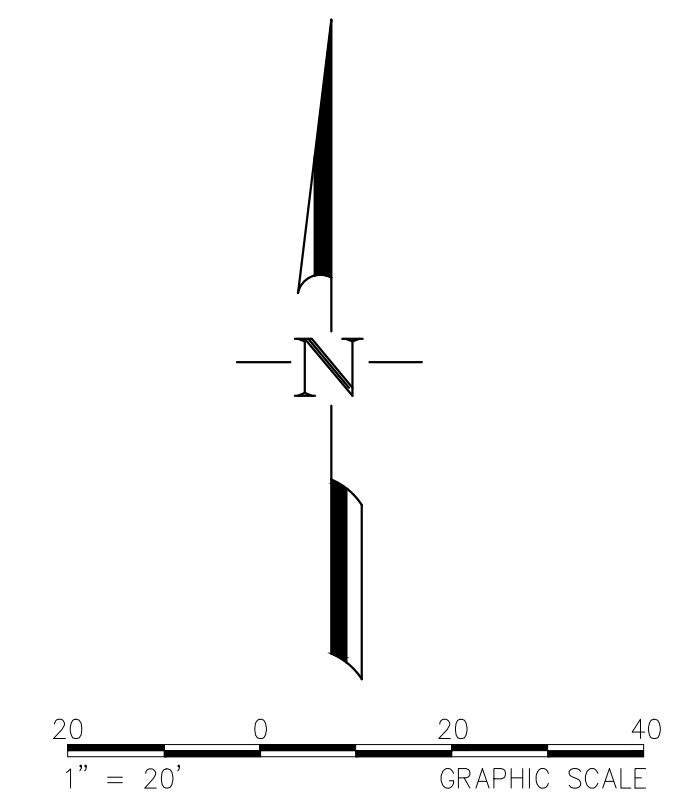
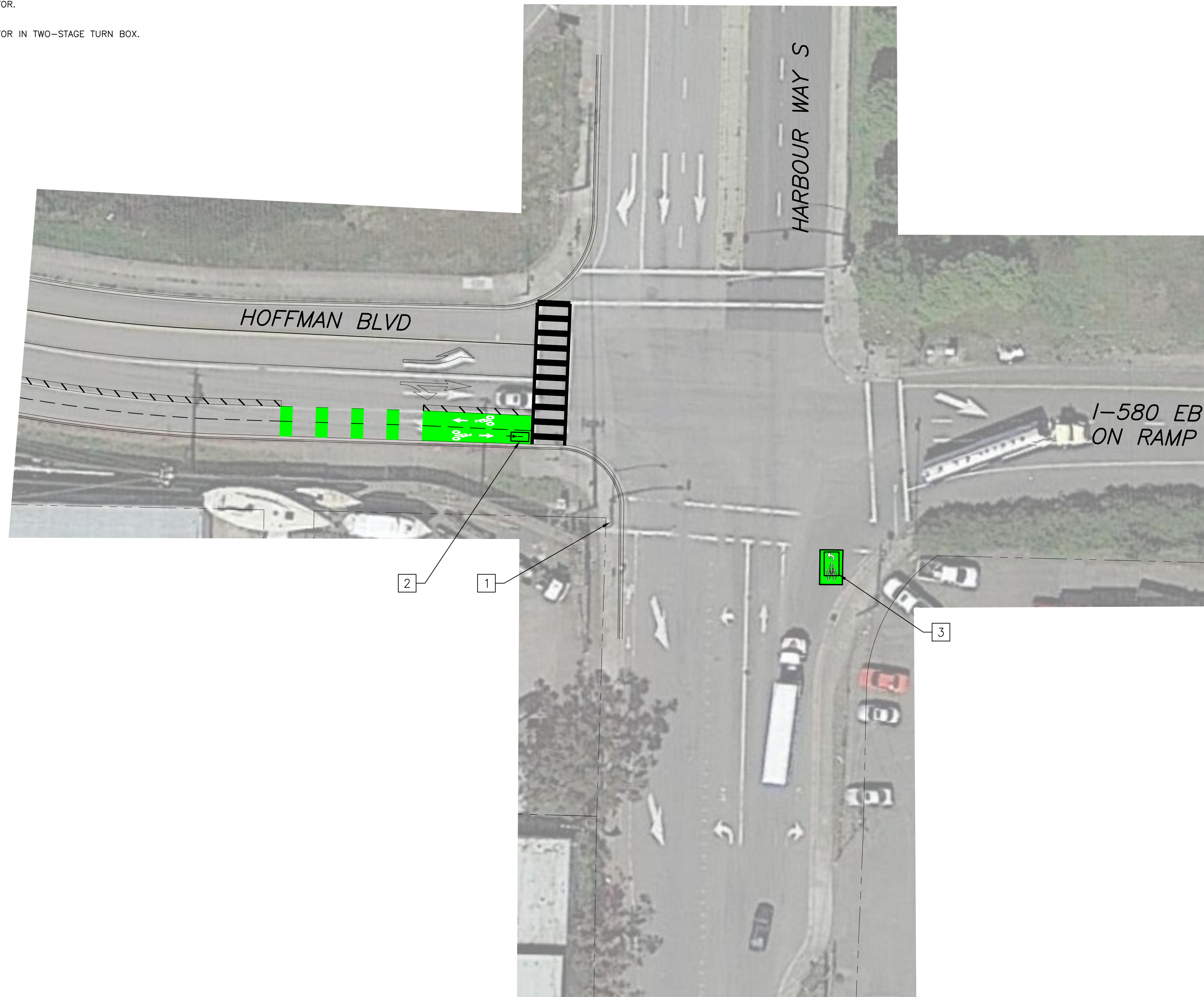
BID SET PLANS
 DATE: 12-17-18



File: N:\PROJECTS\1818\1818_5530_00_Richmond_Ferry_Island_Bridge_Plan\1818_5530_00_Submittal\3530E1-E3.dwg | Layout: E2 | Printed Dec 19, 2018 @ 11:24am | 10,047,06 (MS Tech)

PROJECT NOTES (THIS SHEET ONLY):

- 1 INSTALL R9-5 SIGN ABOVE EXISTING PEDESTRIAN SIGNAL HEAD.
- 2 INSTALL BICYCLE LOOP DETECTOR.
- 3 INSTALL BICYCLE LOOP DETECTOR IN TWO-STAGE TURN BOX.



BID SET
PLANS
DATE: 12-17-18



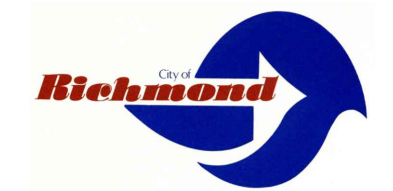
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SHORT-TERM BICYCLE AND PEDESTRIAN CONNECTIONS WITH RICHMOND-SAN RAFAEL BRIDGE

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CITY OF RICHMOND
450 CIVIC CENTER PLAZA
RICHMOND, CA 94804



NO.	DATE	DESCRIPTION

PROJECT NO:	568.45.55
DESIGNED BY:	RM
DRAWN BY:	JM
CHECKED BY:	RM DATE: 12/17/18
DATE:	12/17/18

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SHEET TITLE
TRAFFIC SIGNAL MODIFICATION PLAN 3
HOFFMAN BLVD / HARBOUR WAY / I-580 EB ON RAMP

DRAWING
E3

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