

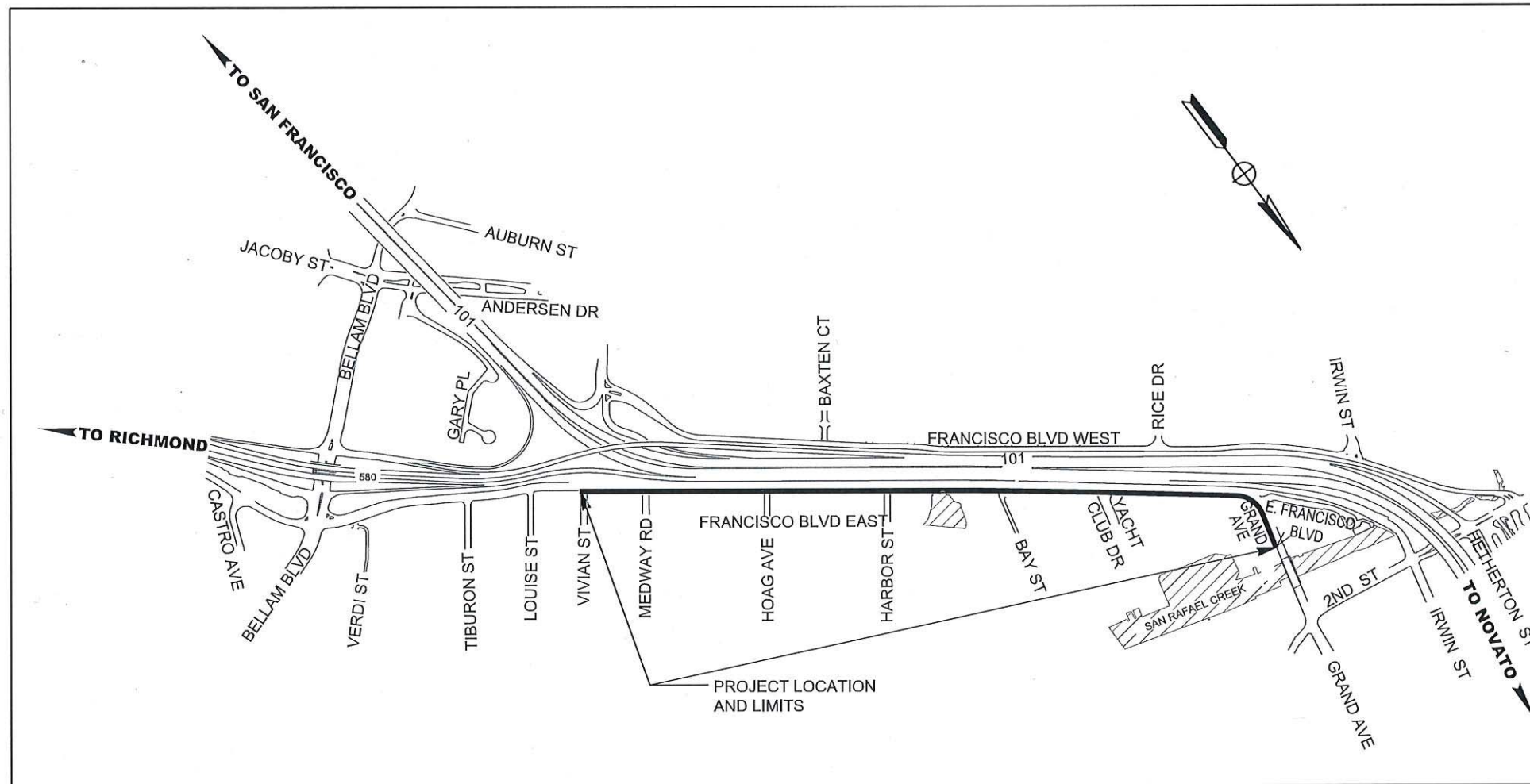
CITY OF SAN RAFAEL

FRANCISCO BOULEVARD EAST SIDEWALK IMPROVEMENTS VIVIAN STREET TO GRAND AVENUE BRIDGE

FEDERAL PROJECT No. ATPL-5043(042)

CITY PROJECT NO. 11349

CITY FILE NO. 16.01.241.01



LOCATION MAP

NTS

Shirley Ye 10/17/19
ASSISTANT PUBLIC WORKS DIRECTOR/CITY ENGINEER
CITY OF SAN RAFAEL



NOT TO SCALE
DATE 6-12-19
PROJECT NO. 11349
SHEET NO. G-1
DRAWING 1 OF 66

CITY OF SAN RAFAEL
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SACRAMENTO, CA 95833
PHONE (916) 920-0300

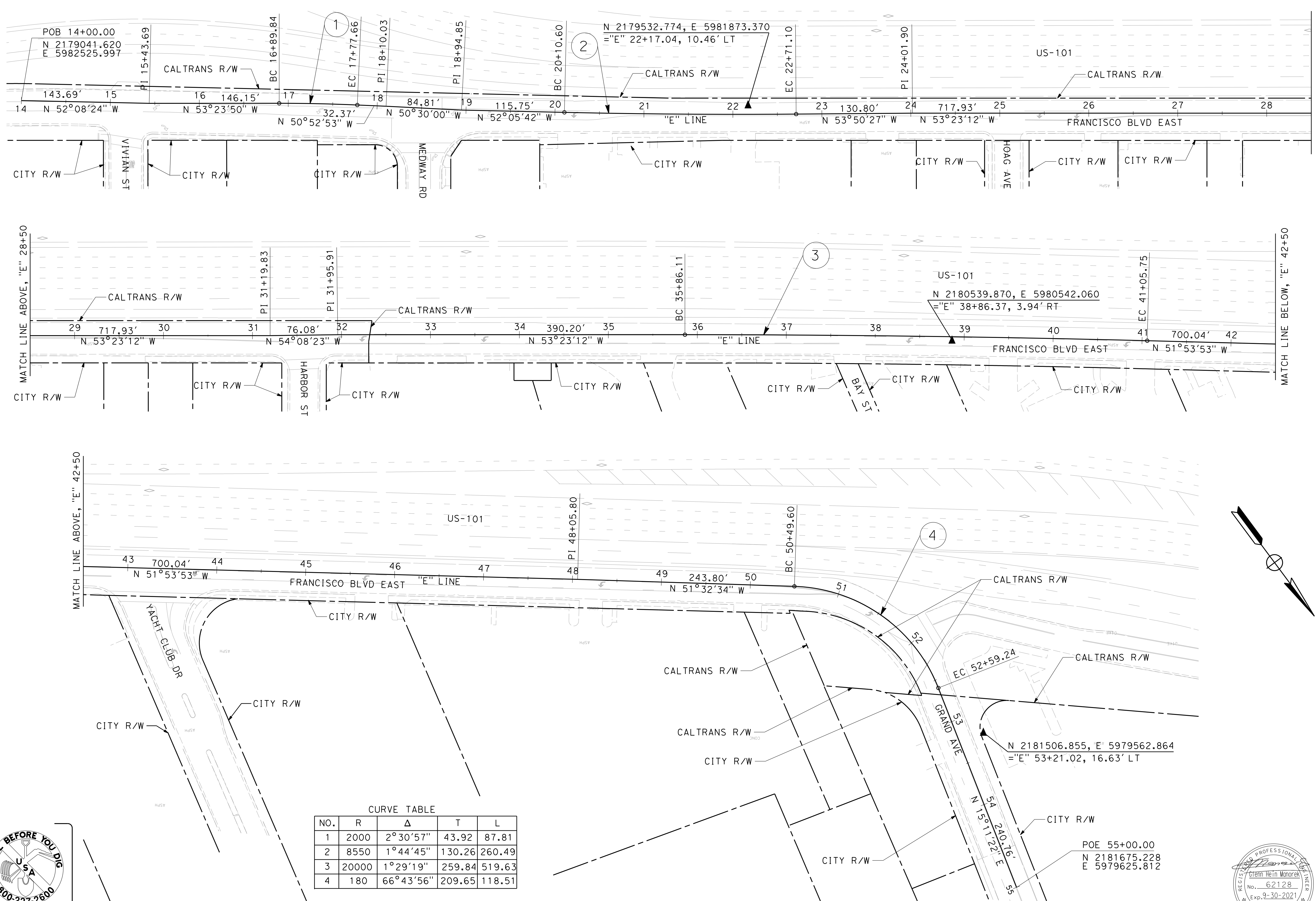
PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE
DRAWING NAME
COVER SHEET
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

DESIGNED	NO. REVISION	BY	DATE
P. DONOVAN			
DRAWN			
P. DONOVAN			
CHECKED			
G. MANDEK			
APPROVED			

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CURVE TABLE

NO.	R	Δ	T	L
1	2000	2°30'57"	43.92	87.81
2	8550	1°44'45"	130.26	260.49
3	20000	1°29'19"	259.84	519.63
4	180	66°43'56"	209.65	118.51



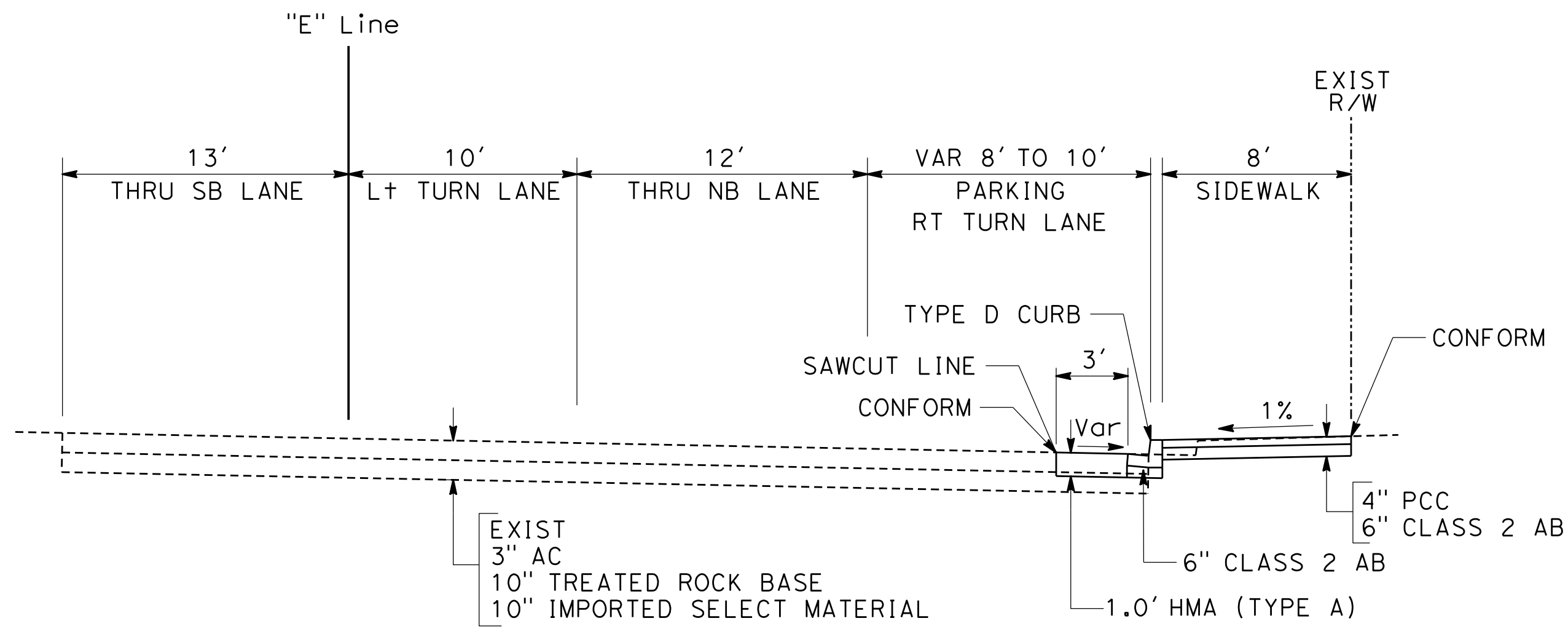
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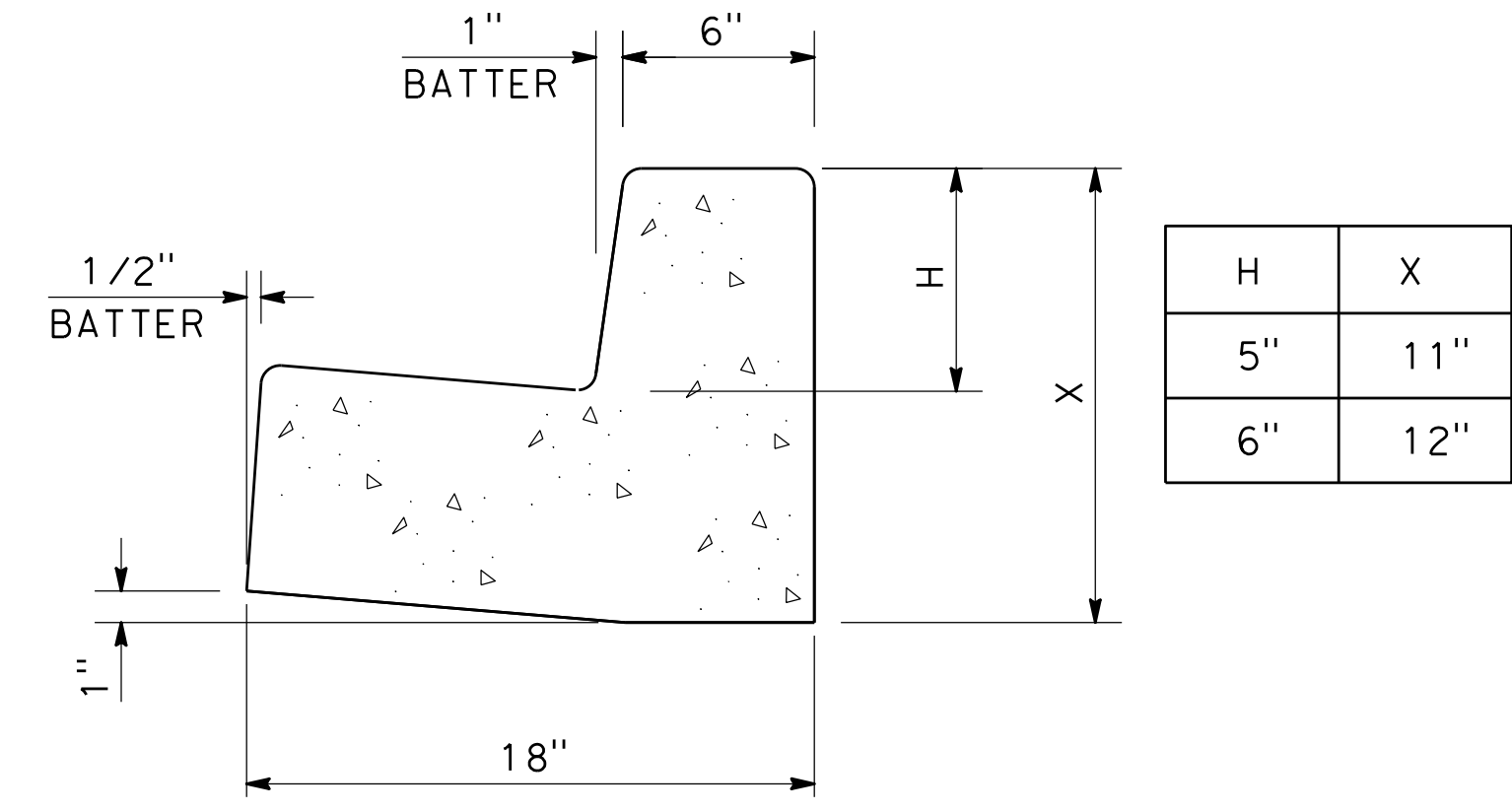
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NOT TO SCALE
 DATE July 2019
 PROJECT NO. 11349
 SHEET NO. G-3
 DRAWING 3 OF 66

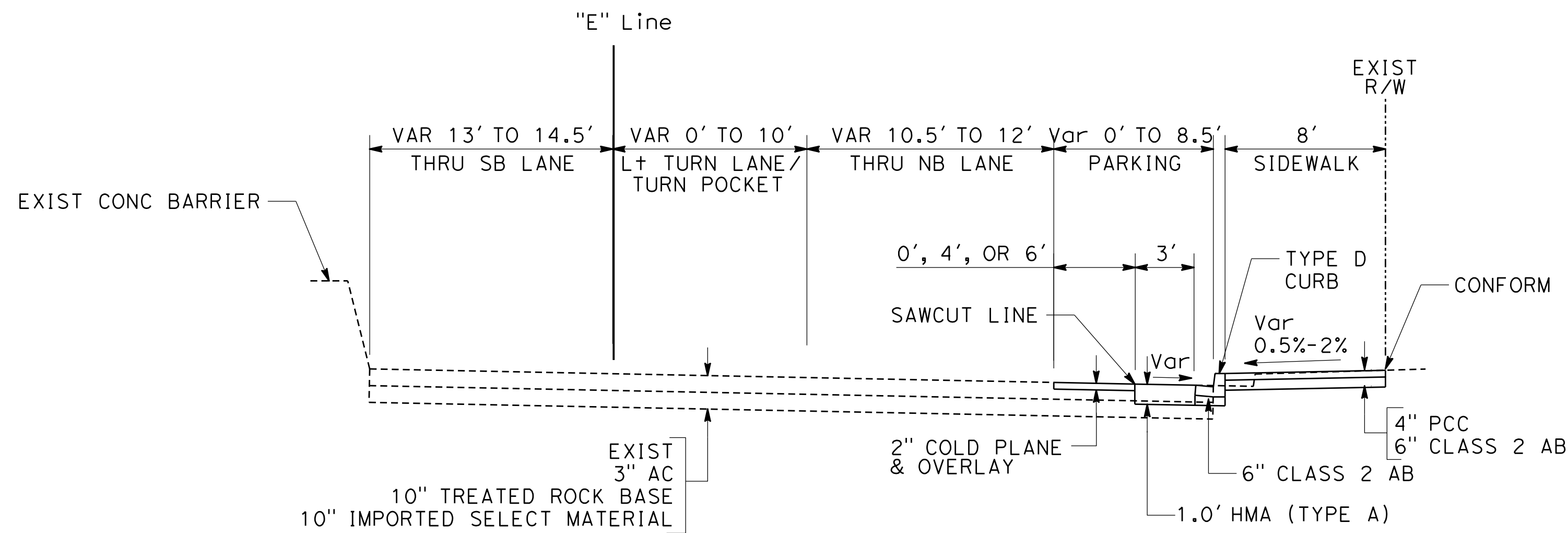
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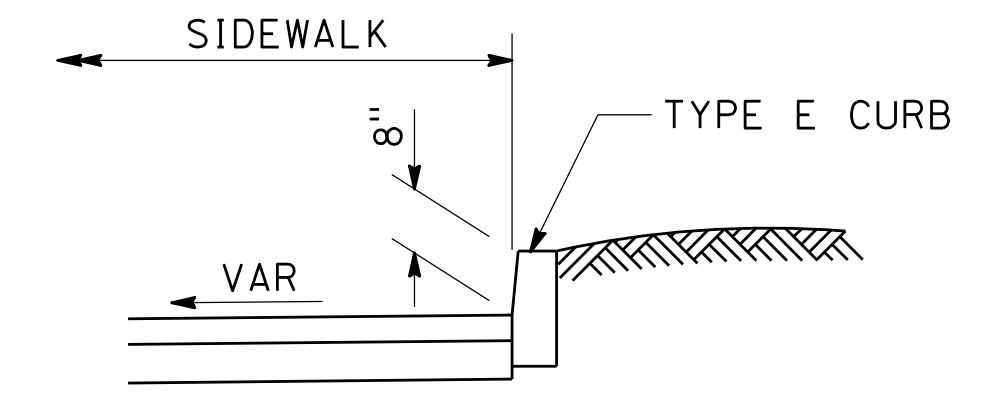
STA "E" 15+00 TO "E" 18+50
(FRANCISCO BLVD EAST - VIVIAN ST TO MEDWAY RD)



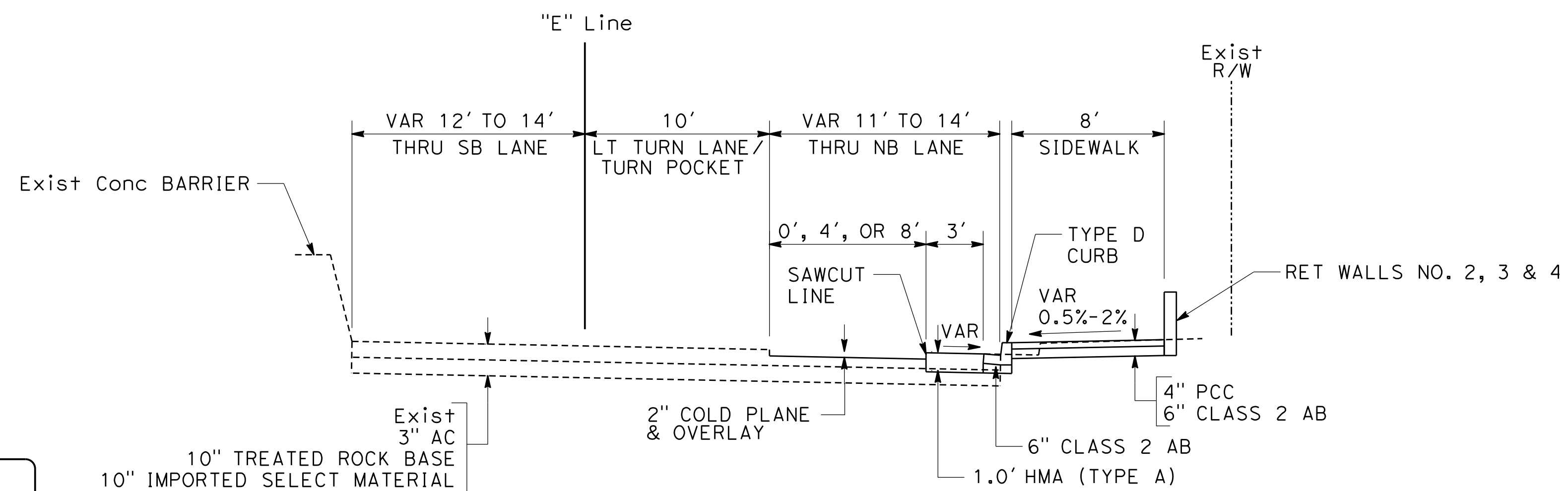
TYPE "D" CURB



STA "E" 18+50 TO "E" 31+50
(FRANCISCO BLVD EAST - MEDWAY RD TO HARBOR ST)



TYPE 'E' CURB
(SEE CONSTRUCTION PLANS FOR LOCATION)



STA "E" 31+50 TO "E" 54+45
(FRANCISCO BLVD EAST - HARBOR ST TO GRAND AVE)

NOTES:

1. FOR TREE WELL LOCATIONS IN SIDEWALK, SEE CONSTRUCTION PLANS.
2. FOR STREET LIGHT POLE LOCATIONS, SEE SIGNAL AND LIGHTING PLANS.
3. PCC THICKNESS SHALL BE 8" OVER 6" CLASS 2 AGGREGATE BASE FOR ALL DRIVEWAYS. SEE CONSTRUCTION DETAIL SHEET AND UNIFORM CONSTRUCTION STANDARD DRAWING NO. 115, NO. 120 AND NO. 125 FOR ADDITIONAL DETAILS.
4. SIDEWALK WIDTH IS 8' UNLESS OTHERWISE SHOWN ON THE PLANS.
5. TYPE D CURB IS 6" UNLESS OTHERWISE SHOWN ON THE PLAN.
6. SEE CONSTRUCTION DETAILS PLANS FOR ADDITIONAL CONFORM DETAILS.
7. FOR COLD PLANE AND OVERLAY LOCATIONS, SEE CONSTRUCTION PLAN.



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PROJECT NAME: FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE
DRAWING NAME: TYPICAL SECTIONS & PAVEMENT DETAILS
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

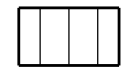
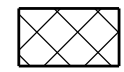
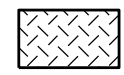
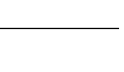

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DATE July 2019
PROJECT NO. 11349
SHEET NO. TY-1
DRAWING 4 OF 66

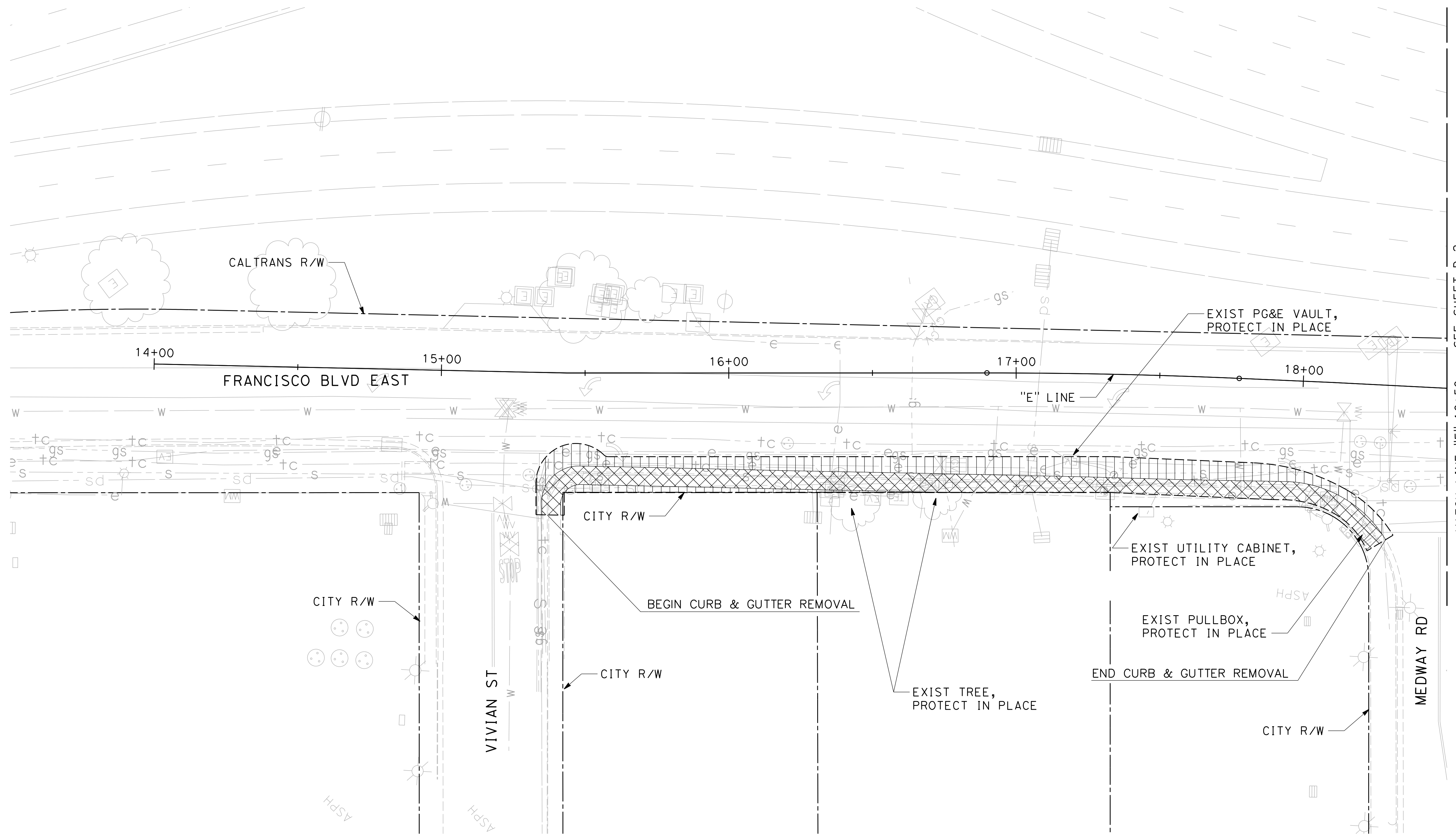
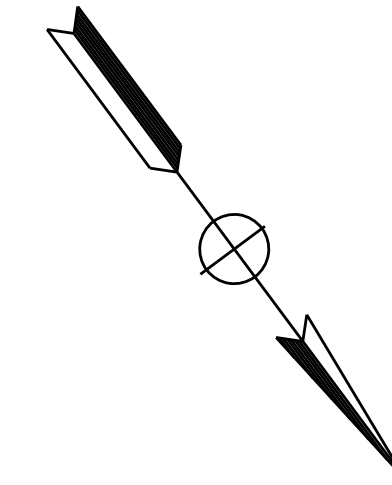
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LEGEND:

-  REMOVE PAVEMENT / EXCAVATION AREA *
-  REMOVE CONCRETE SIDEWALK CURB, GUTTER & DRIVEWAY *
-  CLEARING & GRUBBING *
-  SAWCUT LINE *
-  REMOVE TREE *
- * ALL THIS WORK IS INCLUDED IN THE CLEARING AND GRUBBING BID ITEM

NOTES:

1. EXISTING PRIVATE FACILITIES (RETAINING WALLS, WALKWAYS, AND PLANTER BOXES) IDENTIFIED TO BE REMOVED SHALL BE SAWCUT TO PROVIDE A CLEAN CUT LINE ALONG THE RIGHT OF WAY LINE AND REMOVED COMPLETELY.
2. EXISTING SIDEWALKS AND DRIVEWAYS SHALL BE SAWCUT ALONG EXISTING WEAKENED OR EXPANSION JOINT ONLY.
3. ALL EXISTING SIDEWALK UNDERDRAIN SHALL BE REMOVED. SEE CONSTRUCTION PLANS FOR NEW SIDEWALK UNDERDRAIN LOCATIONS.
4. FOR UTILITY WORK, SEE UTILITY PLAN SHEETS.
5. PROTECT IN PLACE ALL EXISTING FIRE HYDRANT.



MATCH LINE "E" 18+50 SEE SHEET D-2



CALL TWO WORKING DAYS BEFORE YOU DIG

Scale: 1" = 20'



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PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
DEMOLITION PLAN
"E" 14+00 TO 18+50
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

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DATE July 2019

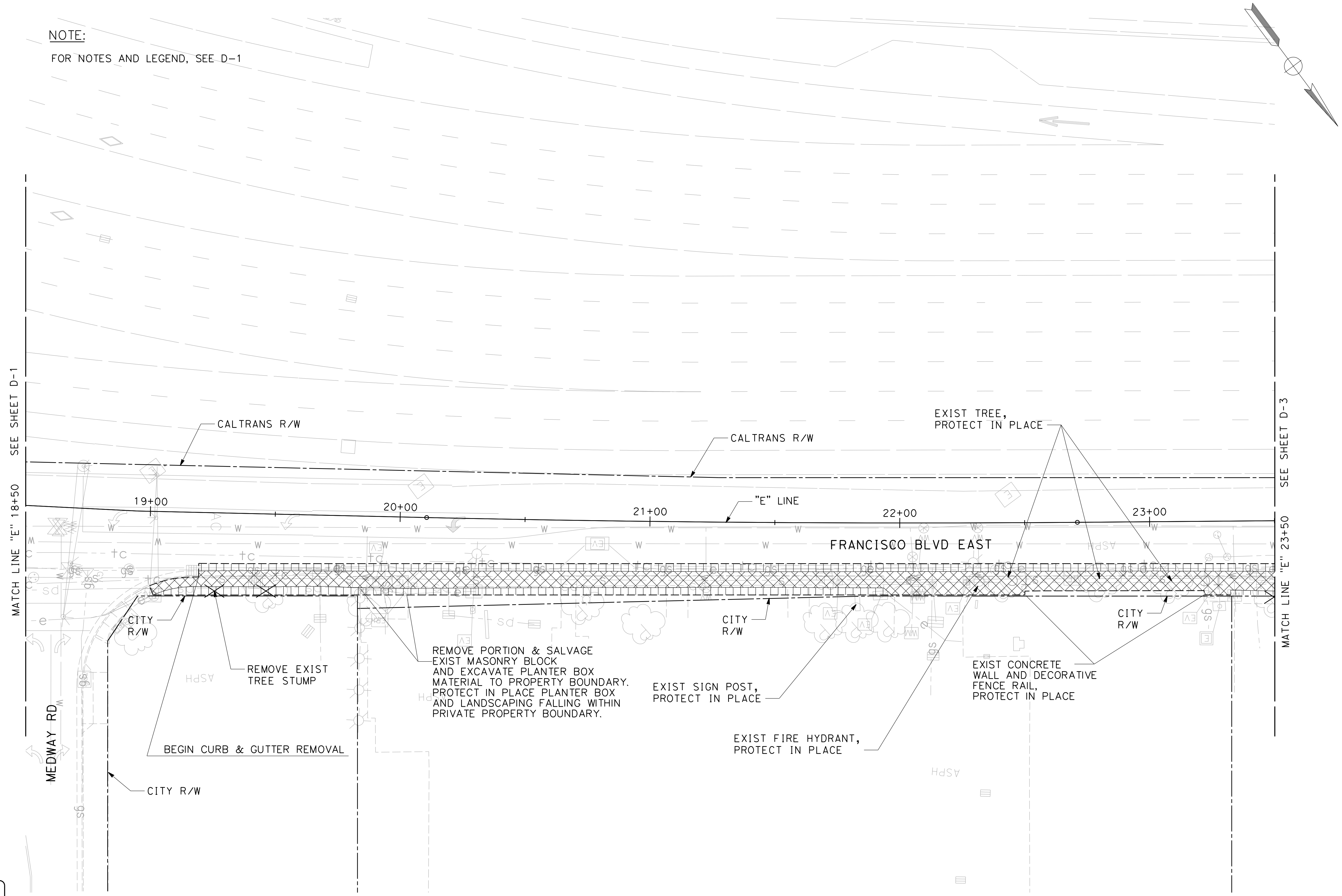
PROJECT NO. 11349

SHEET NO. D-1

DRAWING 5 OF 66

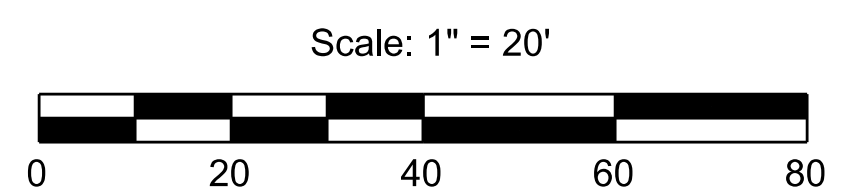
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NOTE:
FOR NOTES AND LEGEND, SEE D-1



SEE SHEET D-1
MATCH LINE "E" 18+50

SEE SHEET D-3
MATCH LINE "E" 23+50



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PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
DEMOLITION PLAN
"E" 18+50 TO 23+50
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

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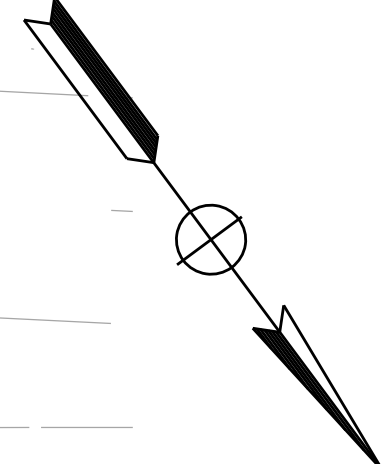
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PROJECT NO. 11349
SHEET NO. D-2
DRAWING 6 OF 66

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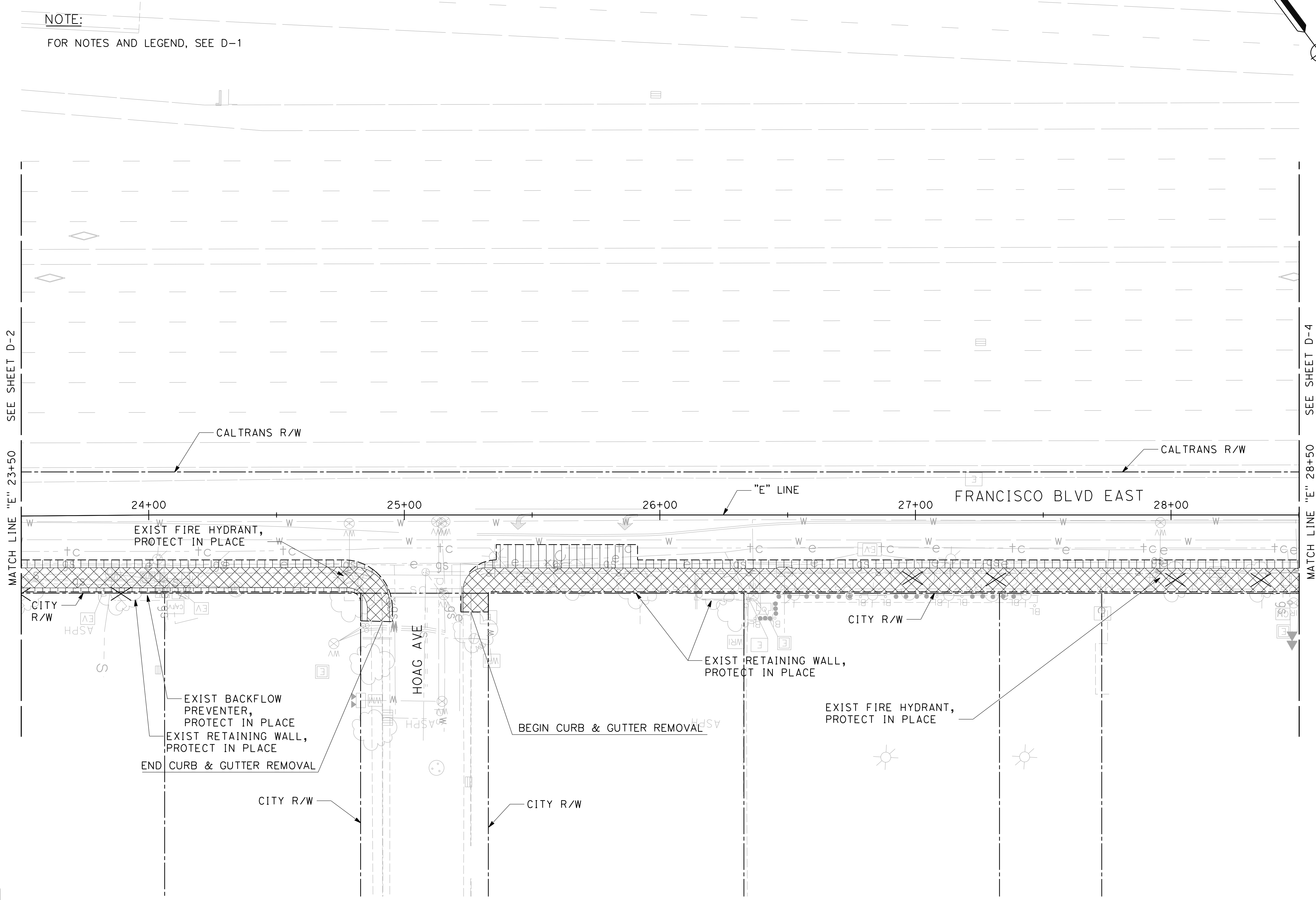
NOTE:

FOR NOTES AND LEGEND, SEE D-1

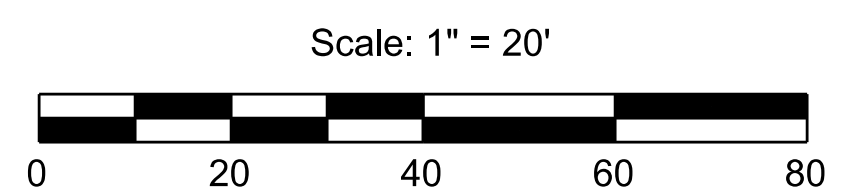


MATCH LINE "E" 23+50 SEE SHEET D-2

MATCH LINE "E" 28+50 SEE SHEET D-4



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PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
DEMOLITION PLAN
"E" 23+50 TO 28+50

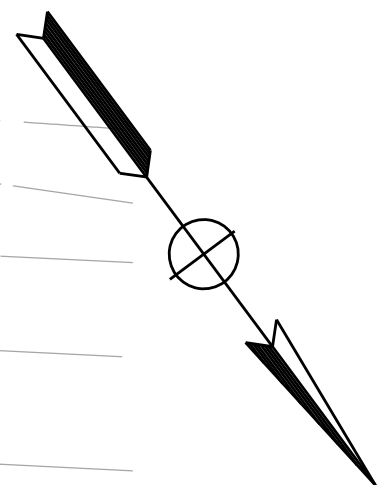
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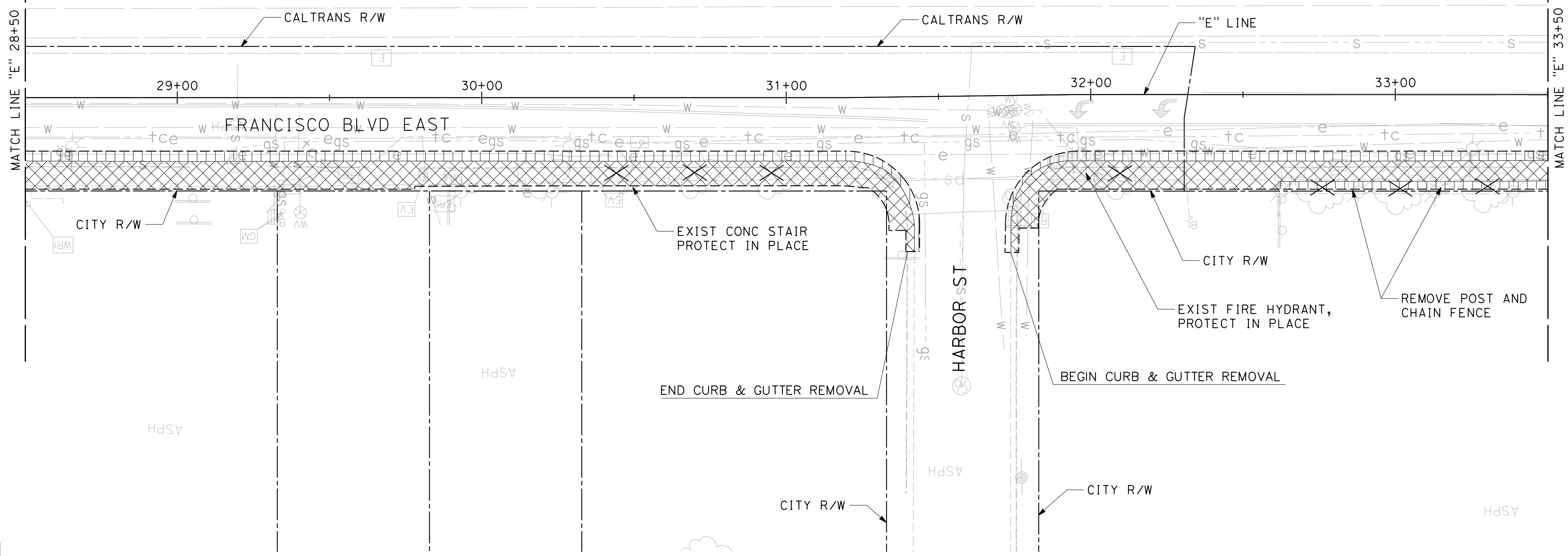
SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. D-3
DRAWING 7 OF 66

NOTE:
FOR NOTES AND LEGEND, SEE D-1

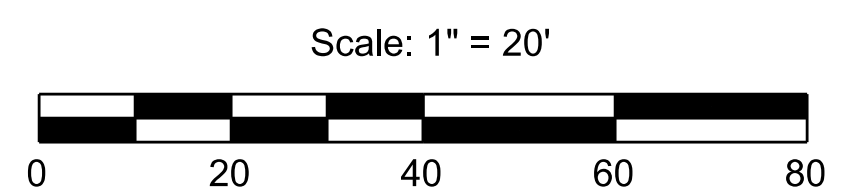


MATCH LINE "E" 28+50 SEE SHEET D-3

MATCH LINE "E" 33+50 SEE SHEET D-5



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PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
DEMOLITION PLAN
"E" 28+50 TO 33+50

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

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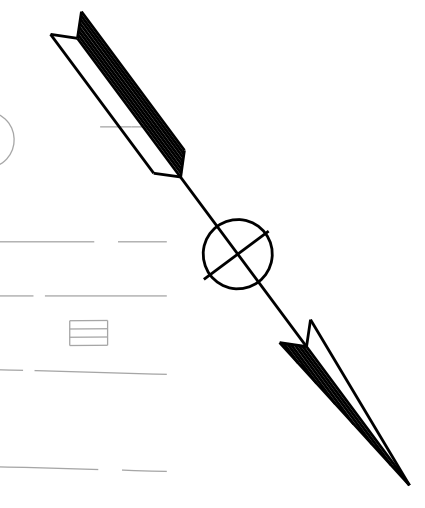
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DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. D-4
DRAWING 8 OF 66

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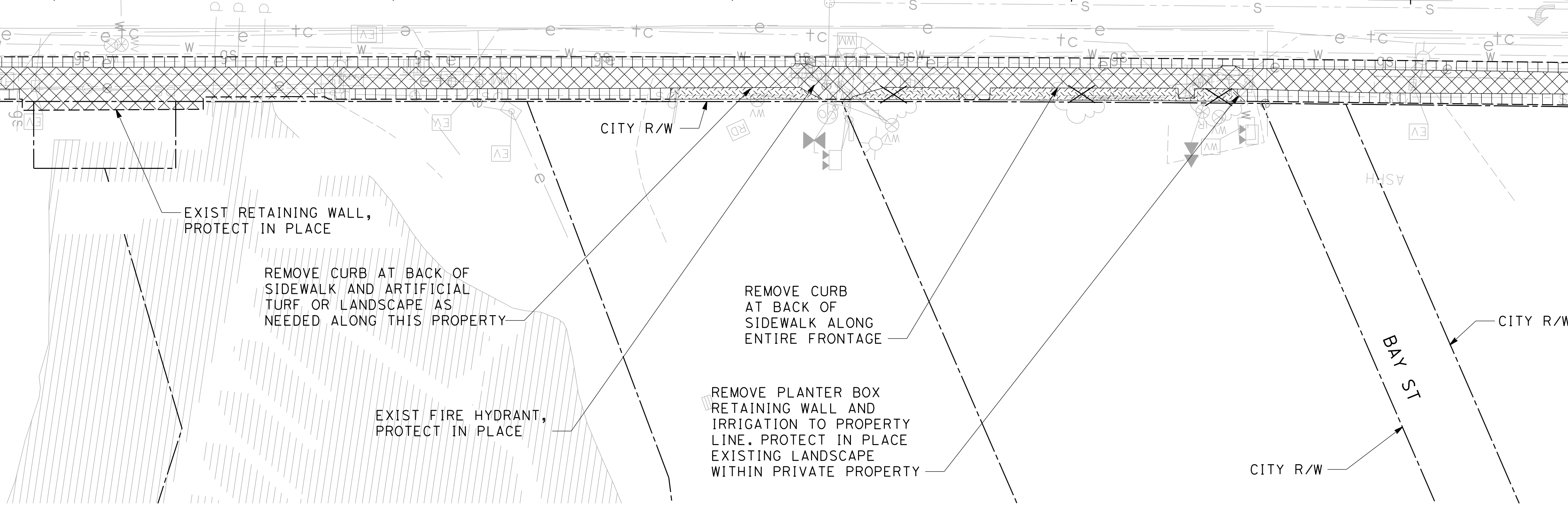
NOTE:
FOR NOTES AND LEGEND, SEE D-1



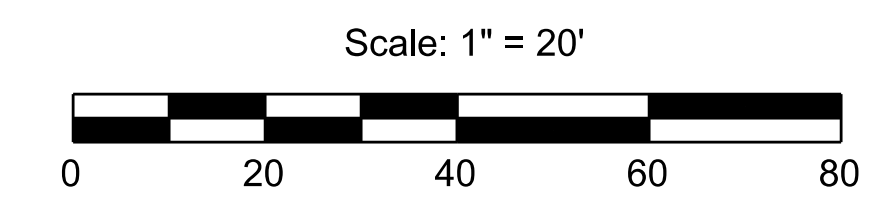
MATCH LINE "E" 33+50 SEE SHEET D-4

MATCH LINE "E" 38+50 SEE SHEET D-6

34+00 35+00 36+00 37+00 38+00
"E" LINE FRANCISCO BLVD EAST



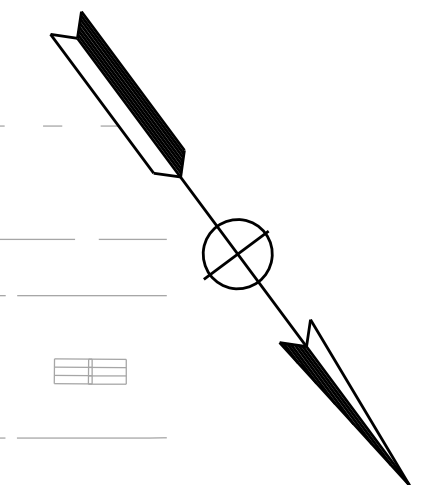
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	CHECKED	G. MANOREK				
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PROJECT NAME	FRANCISCO BLVD EAST FROM VIVIAN ST TO GRAND AVE BRIDGE					
DRAWING NAME	DEMOLITION PLAN "E", 33+50 TO 38+50 SAN RAFAEL, COUNTY OF MARIN, CALIFORNIA					
 2485 NATOMAS PARK DR, STE 600 SACRAMENTO, CA 95833 PHONE (916) 920-0300						
SCALE	AS NOTED					
DATE	July 2019					
PROJECT NO.	11349					
SHEET NO.	D-5					
DRAWING	g OF 66					

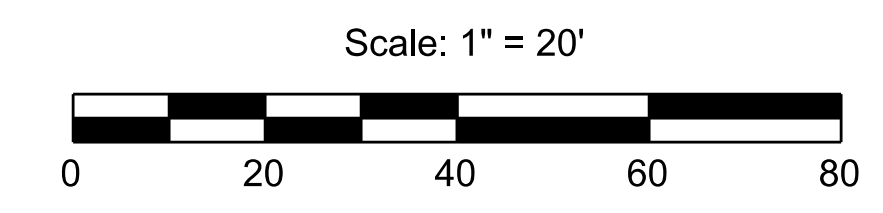
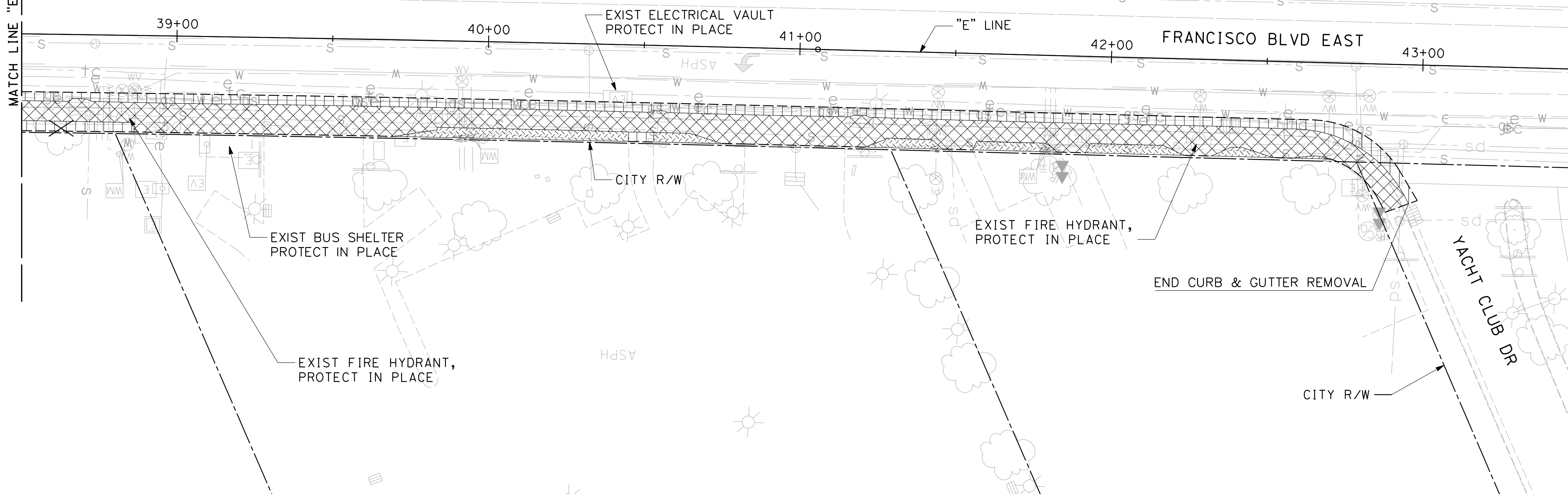
NOTE:

FOR NOTES AND LEGEND, SEE D-1



MATCH LINE "E" 38+50 SEE SHEET D-5

MATCH LINE "E" 43+50 SEE SHEET D-7



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PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
DEMOLITION PLAN
"E" 38+50 TO 43+50
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

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DEPARTMENT OF PUBLIC WORKS

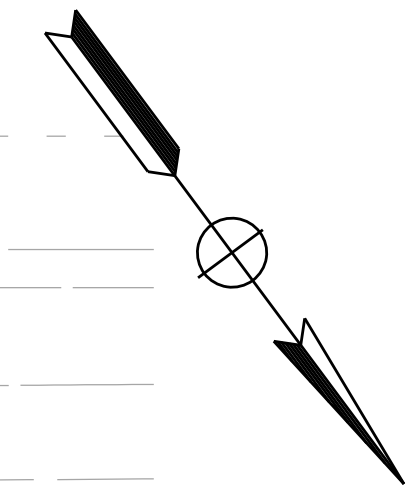
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PROJECT NO. 11349
SHEET NO. D-6
DRAWING 100F 66

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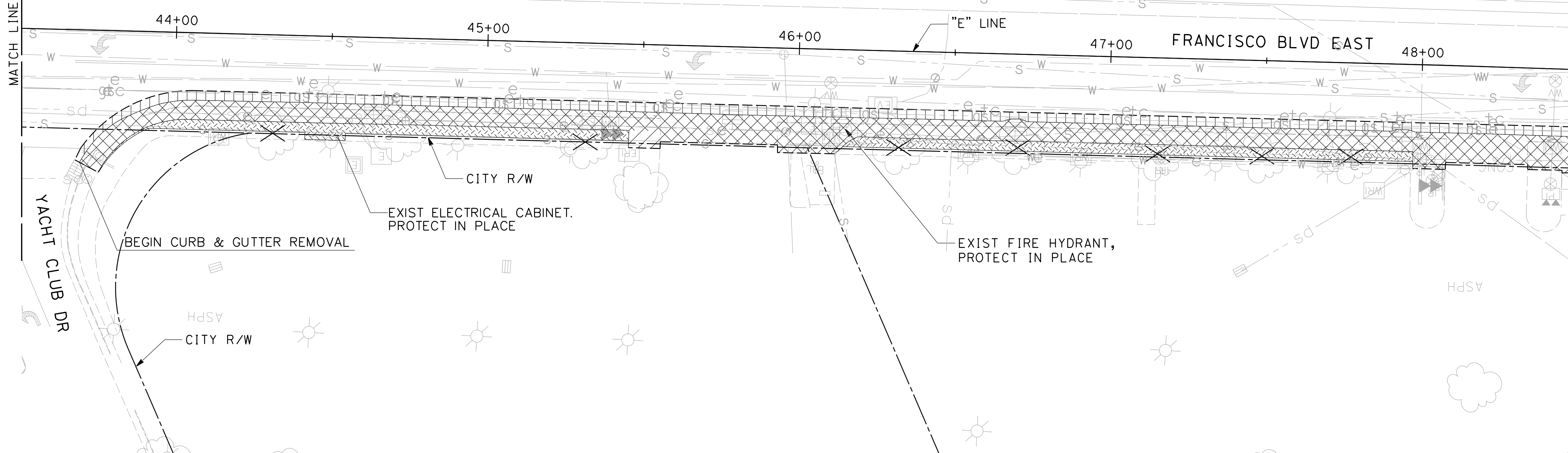
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FOR NOTES AND LEGEND, SEE D-1

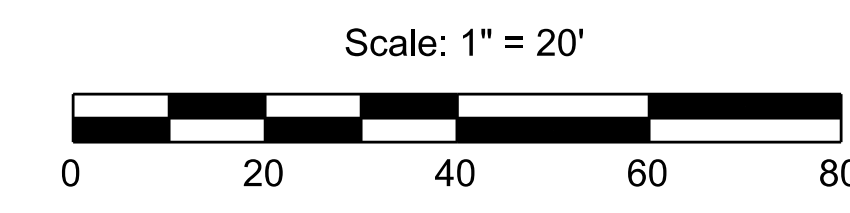


MATCH LINE "E" 43+50 SEE SHEET D-6

MATCH LINE "E" 48+50 SEE SHEET D-8



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PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

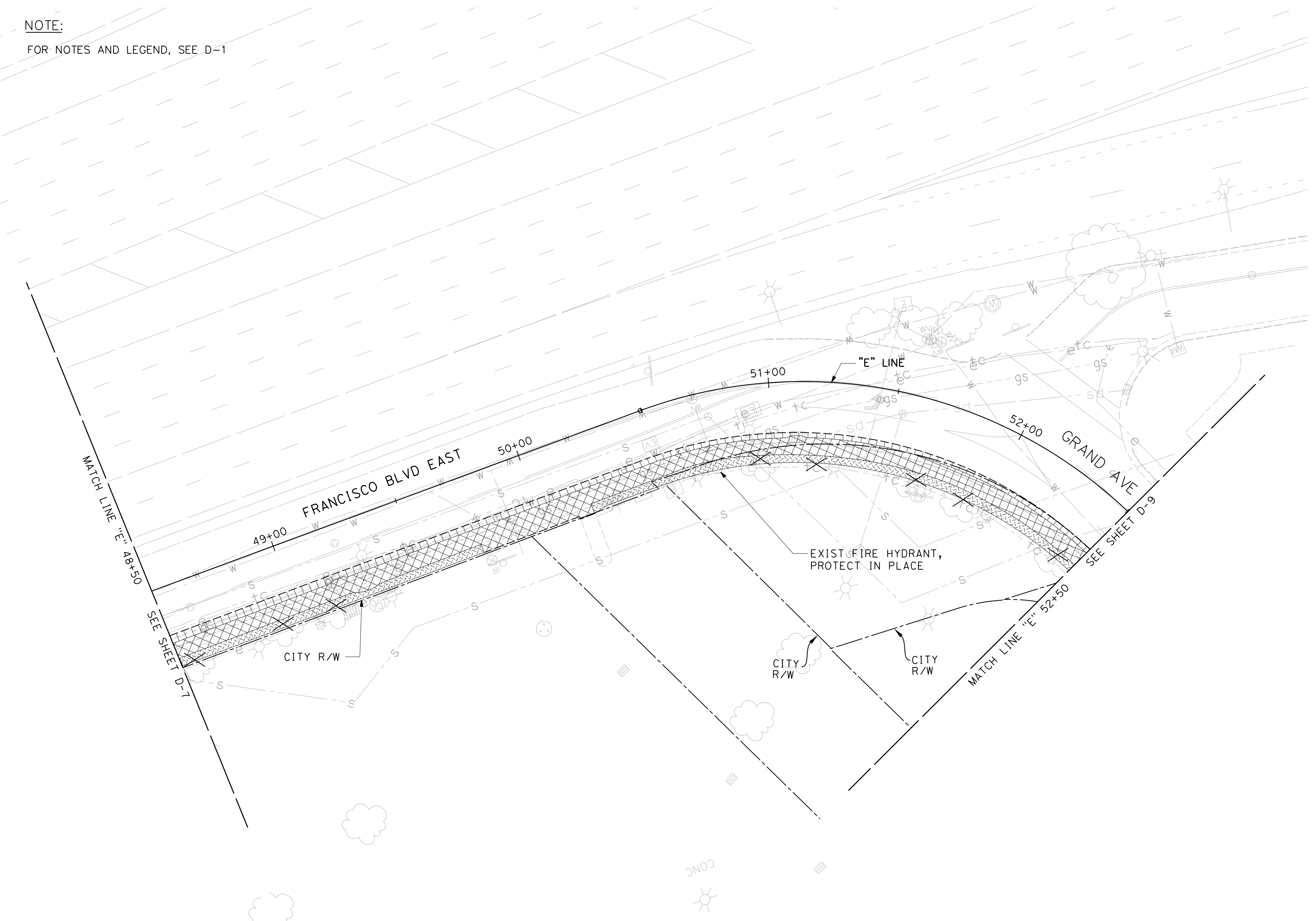
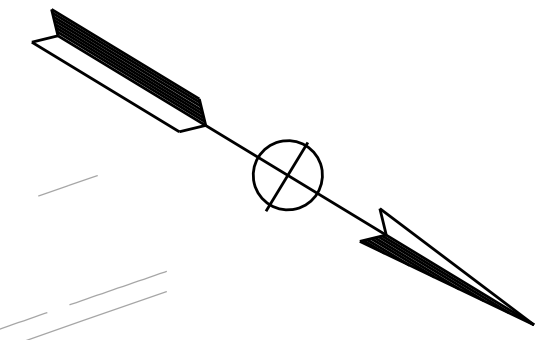
DRAWING NAME
DEMOLITION PLAN
"E" 43+50 TO 48+50
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

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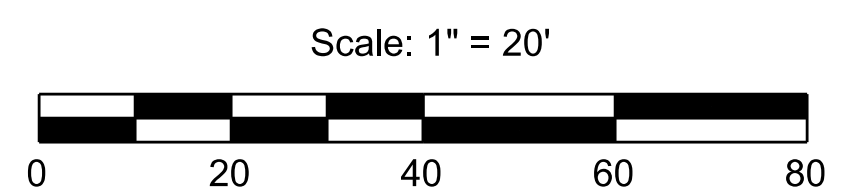
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PROJECT NO. 11349
SHEET NO. D-7
DRAWING 11 OF 66

NOTE:
FOR NOTES AND LEGEND, SEE D-1



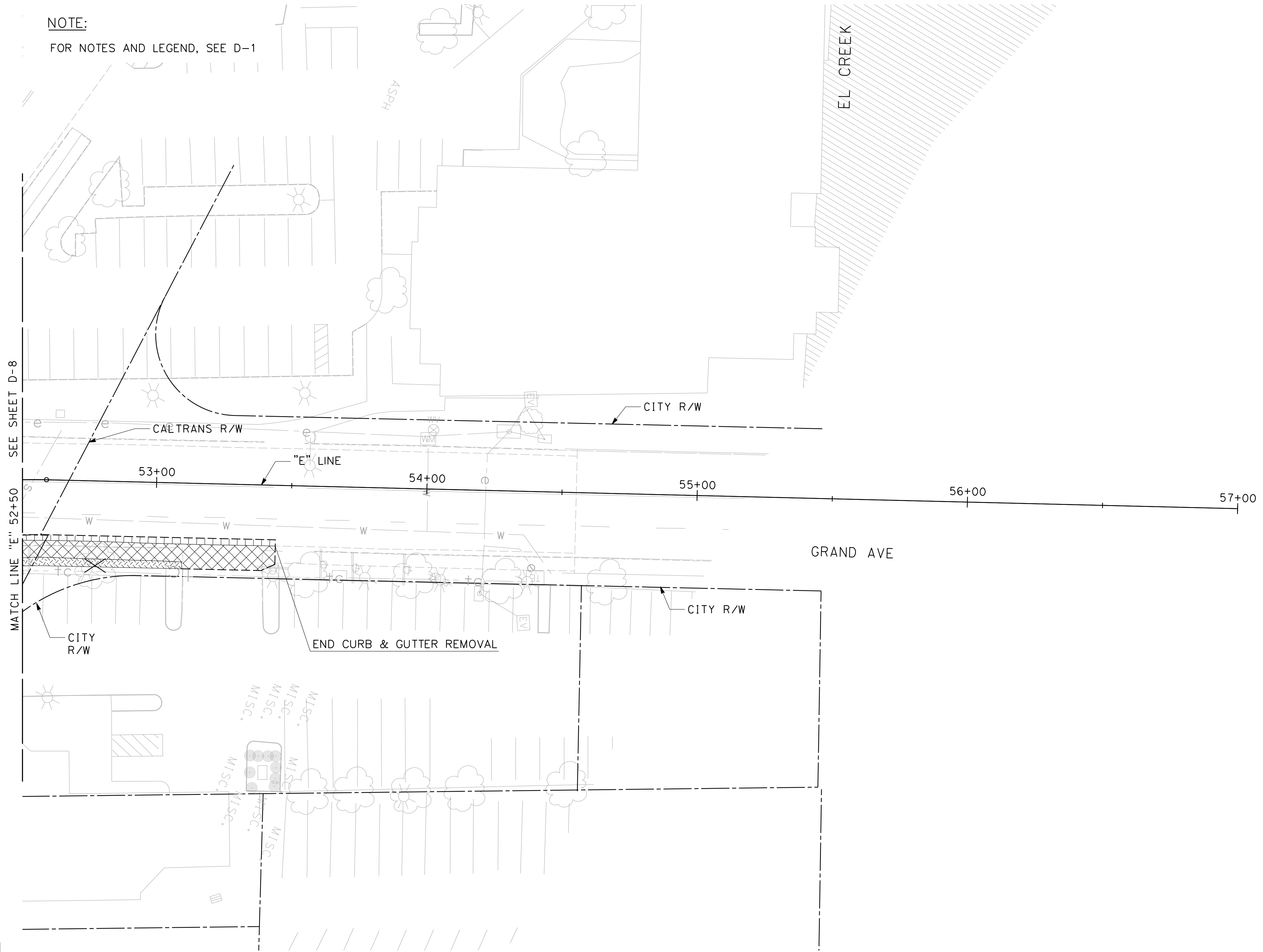
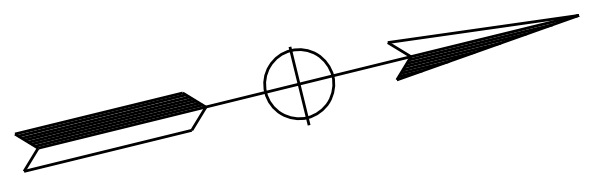
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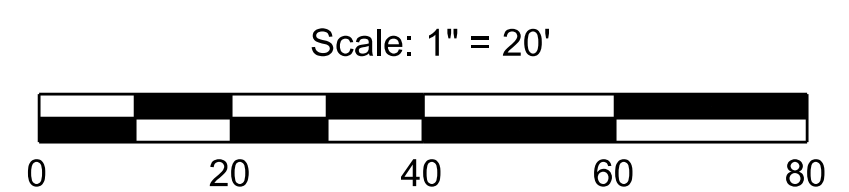
JACOBS 2485 NATOMAS PARK DR, STE 600 SACRAMENTO, CA 95833 PHONE (916) 920-0300	PROJECT NAME FRANCISCO BLVD EAST FROM VIVIAN ST TO GRAND AVE BRIDGE	DESIGNED P. DONOVAN	NO. REVISION BY DATE
	DRAWING NAME DEMOLITION PLAN "E" 48+50 TO 52+50	DRAWN P. DONOVAN	CHECKED G. MANOREK
CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS	SAN RAFAEL COUNTY OF MARIN CALIFORNIA	APPROVED	DATE
SCALE AS NOTED DATE July 2019 PROJECT NO. 11349 SHEET NO. D-8 DRAWING 12 OF 66			

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NOTE:
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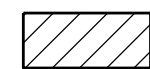


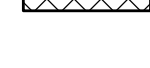

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
DEMOLITION PLAN
"E" 52+50 TO 57+00
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

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P. DONOVAN				
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G. MANOREK				
APPROVED				

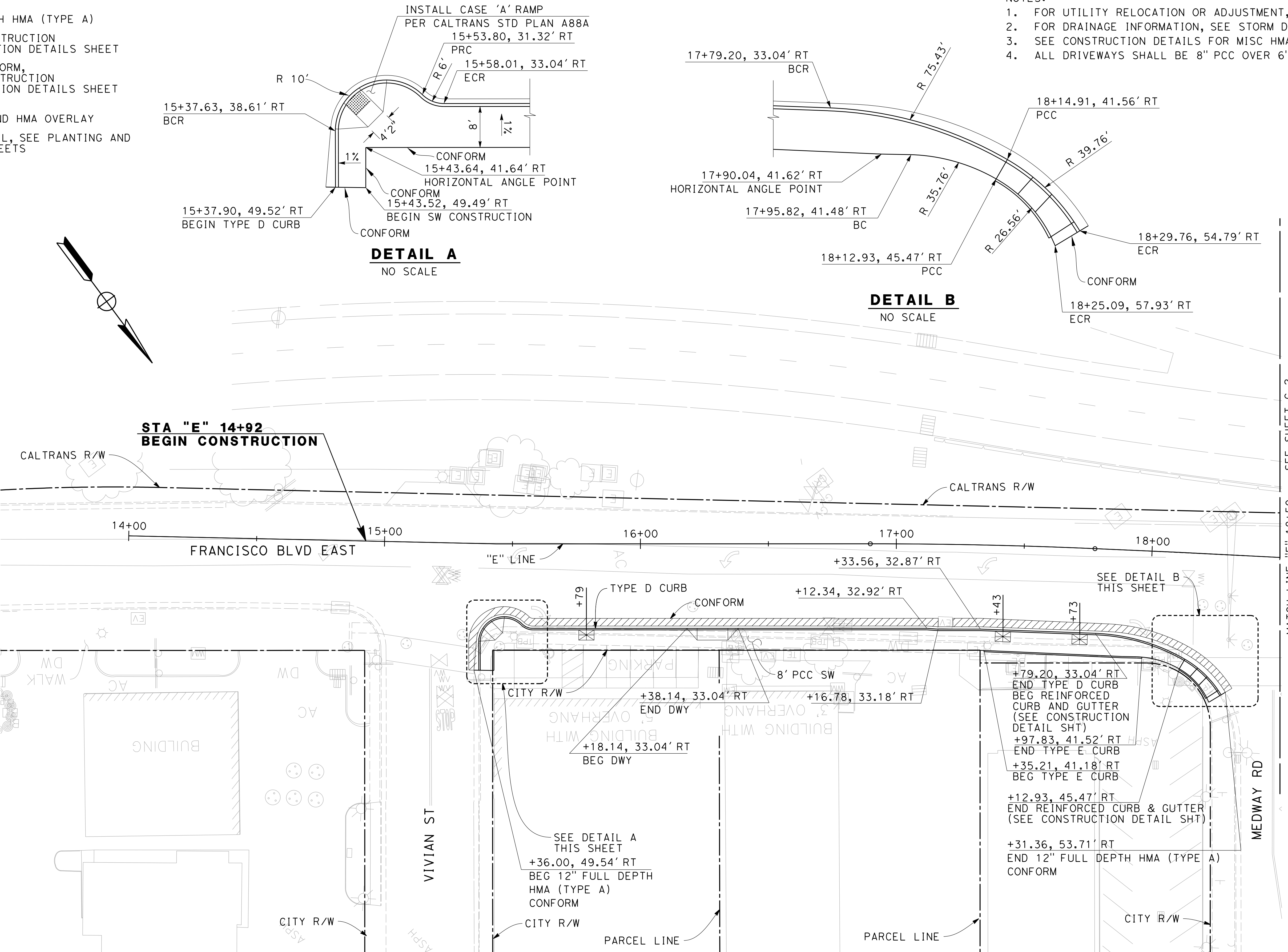
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DATE July 2019
PROJECT NO. 11349
SHEET NO. D-9
DRAWING 13 OF 66

LEGEND:

-  12" FULL DEPTH HMA (TYPE A)
-  MISC HMA CONSTRUCTION
SEE CONSTRUCTION DETAILS SHEET
-  DRIVEWAY CONFORM,
MISC HMA CONSTRUCTION
SEE CONSTRUCTION DETAILS SHEET
-  COLD PLANE AND HMA OVERLAY
-  4'x6' TREE WELL, SEE PLANTING AND
IRRIGATION SHEETS

NOTES:

1. FOR UTILITY RELOCATION OR ADJUSTMENT, SEE UTILITY PLANS.
2. FOR DRAINAGE INFORMATION, SEE STORM DRAINAGE PLANS.
3. SEE CONSTRUCTION DETAILS FOR MISC HMA CONSTRUCTION.
4. ALL DRIVEWAYS SHALL BE 8" PCC OVER 6" CLASS 2 AB.

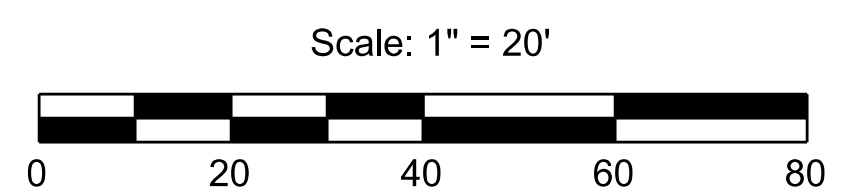


**STA "E" 14+92
BEGIN CONSTRUCTION**

**DETAIL A
NO SCALE**

**DETAIL B
NO SCALE**

MATCH LINE "E" 18+50 SEE SHEET C-2



DESIGNED	NO. REVISION	BY	DATE
P. DONOVAN			
DRAWN			
P. DONOVAN			
CHECKED			
G. MANOREK			
APPROVED			

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
CONSTRUCTION PLAN
"E" 14+00 TO 18+50

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

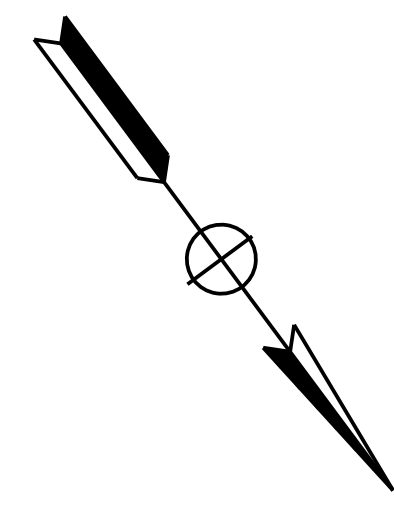
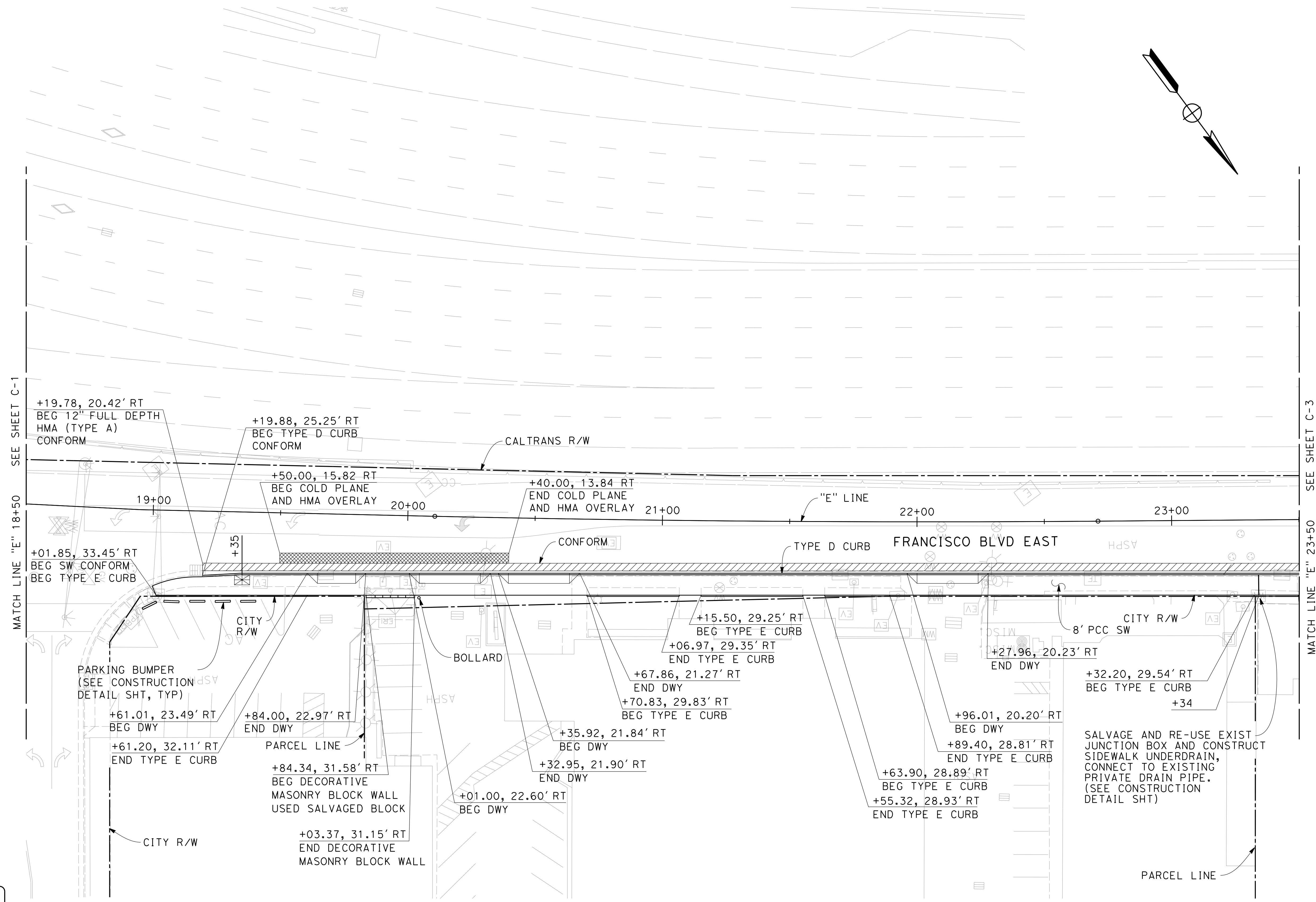


CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. C-1
DRAWING 14 OF 66

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NOTE: FOR NOTES AND LEGEND, SEE SHEET C-1.

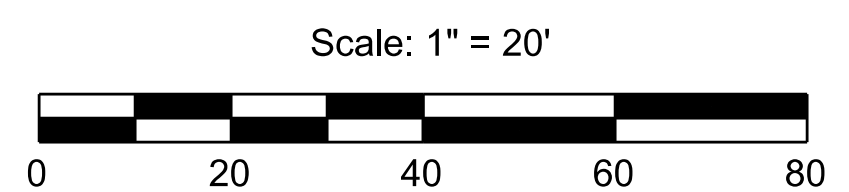


SEE SHEET C-1
MATCH LINE "E" 18+50

SEE SHEET C-3
MATCH LINE "E" 23+50



CALL TWO WORKING DAYS BEFORE YOU DIG



DESIGNED	NO. REVISION	BY	DATE
P. DONOVAN			
DRAWN			
P. DONOVAN			
CHECKED			
G. MANOREK			
APPROVED			

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
CONSTRUCTION PLAN
"E" 18+50 TO 23+50

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

JACOBS

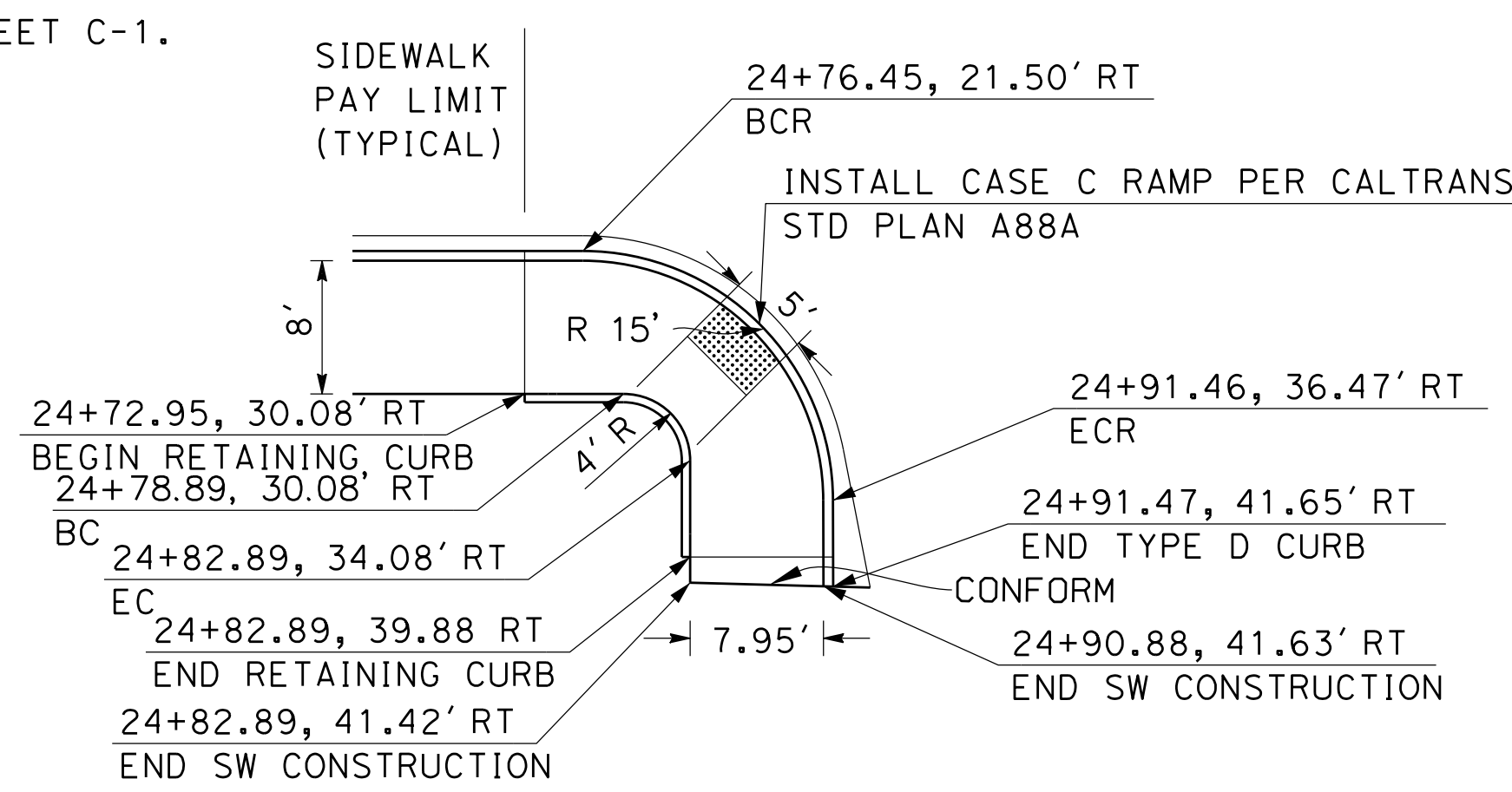
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

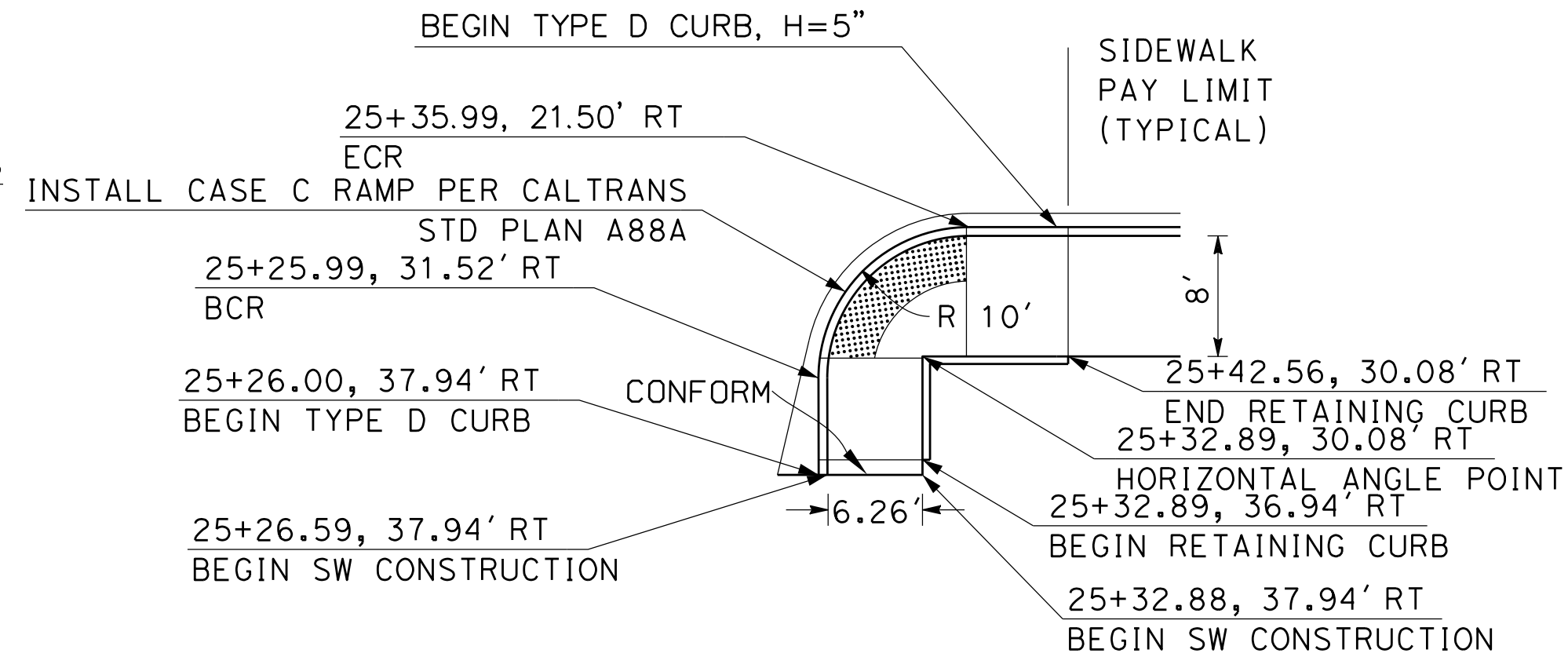
SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. C-2
DRAWING 15 OF 66

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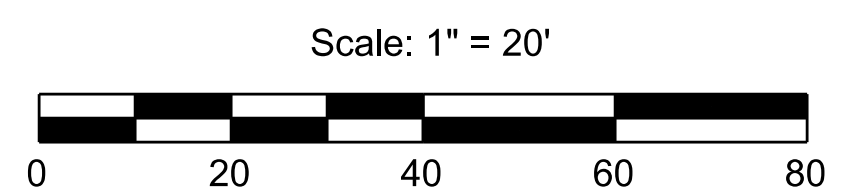
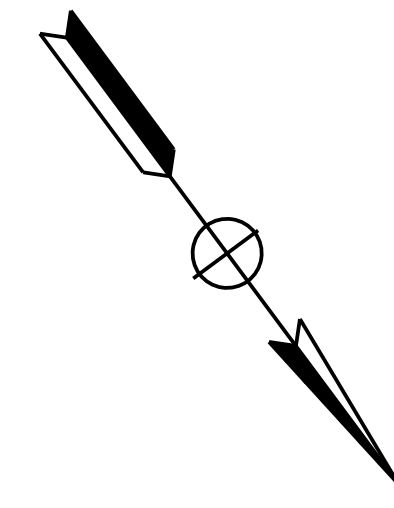
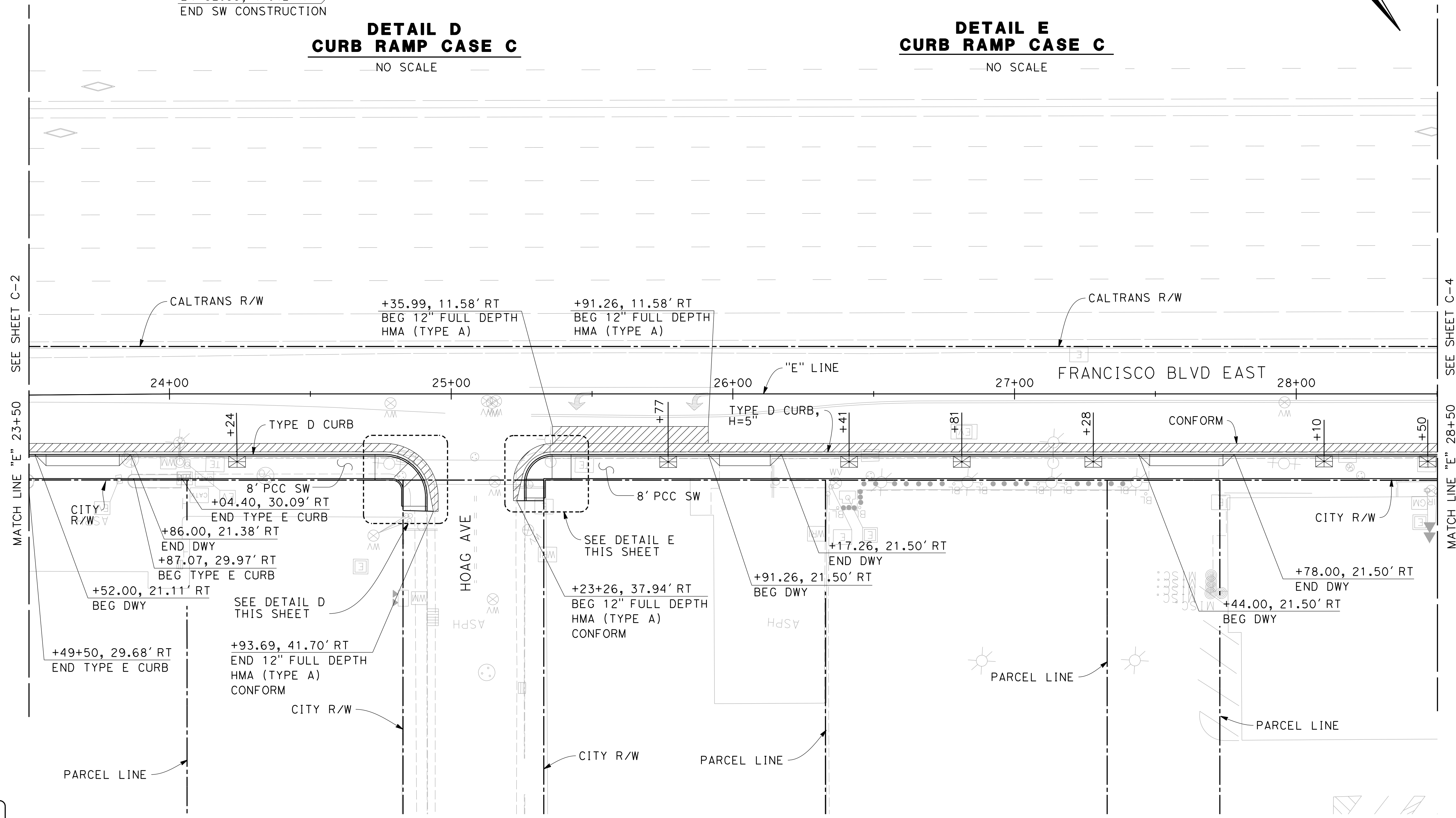
NOTE: FOR NOTES AND LEGEND, SEE SHEET C-1.



**DETAIL D
CURB RAMP CASE C**
NO SCALE



**DETAIL E
CURB RAMP CASE C**
NO SCALE



DESIGNED	NO.	REVISION	BY	DATE
P. DONOVAN				
DRAWN				
P. DONOVAN				
CHECKED				
G. MANOREK				
APPROVED				

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
CONSTRUCTION PLAN
E 23+50 TO 28+50

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

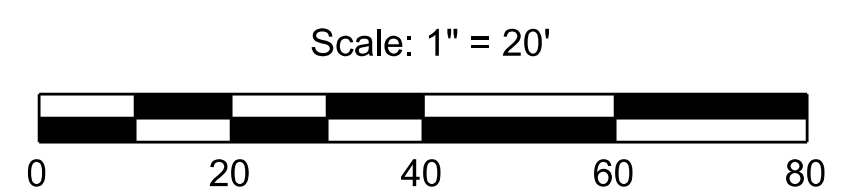
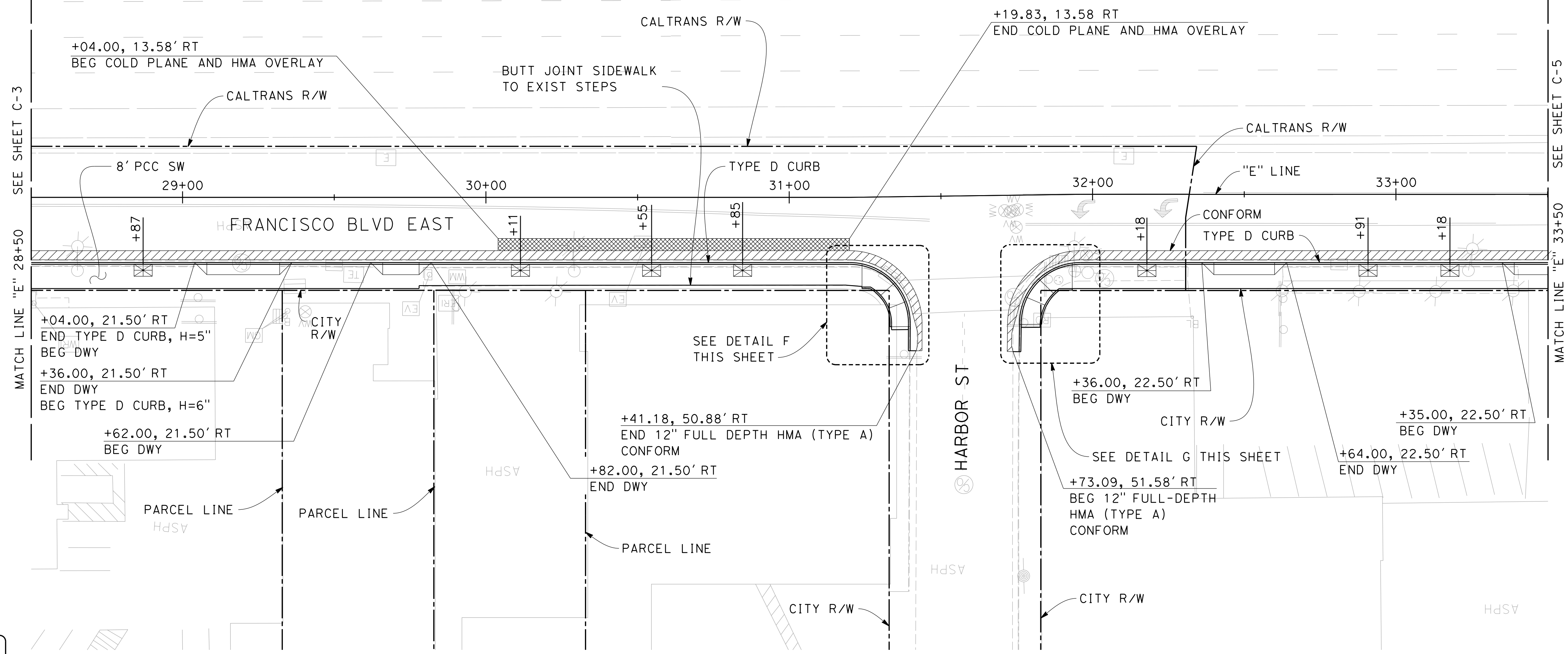
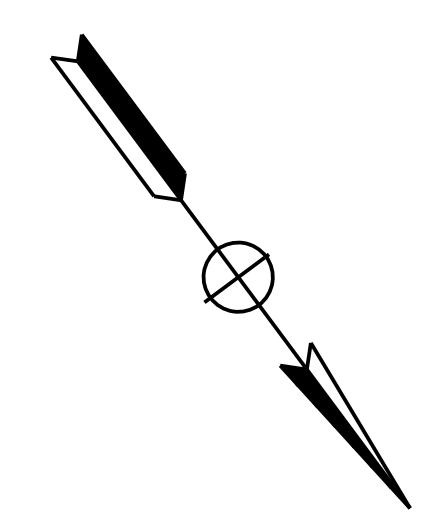
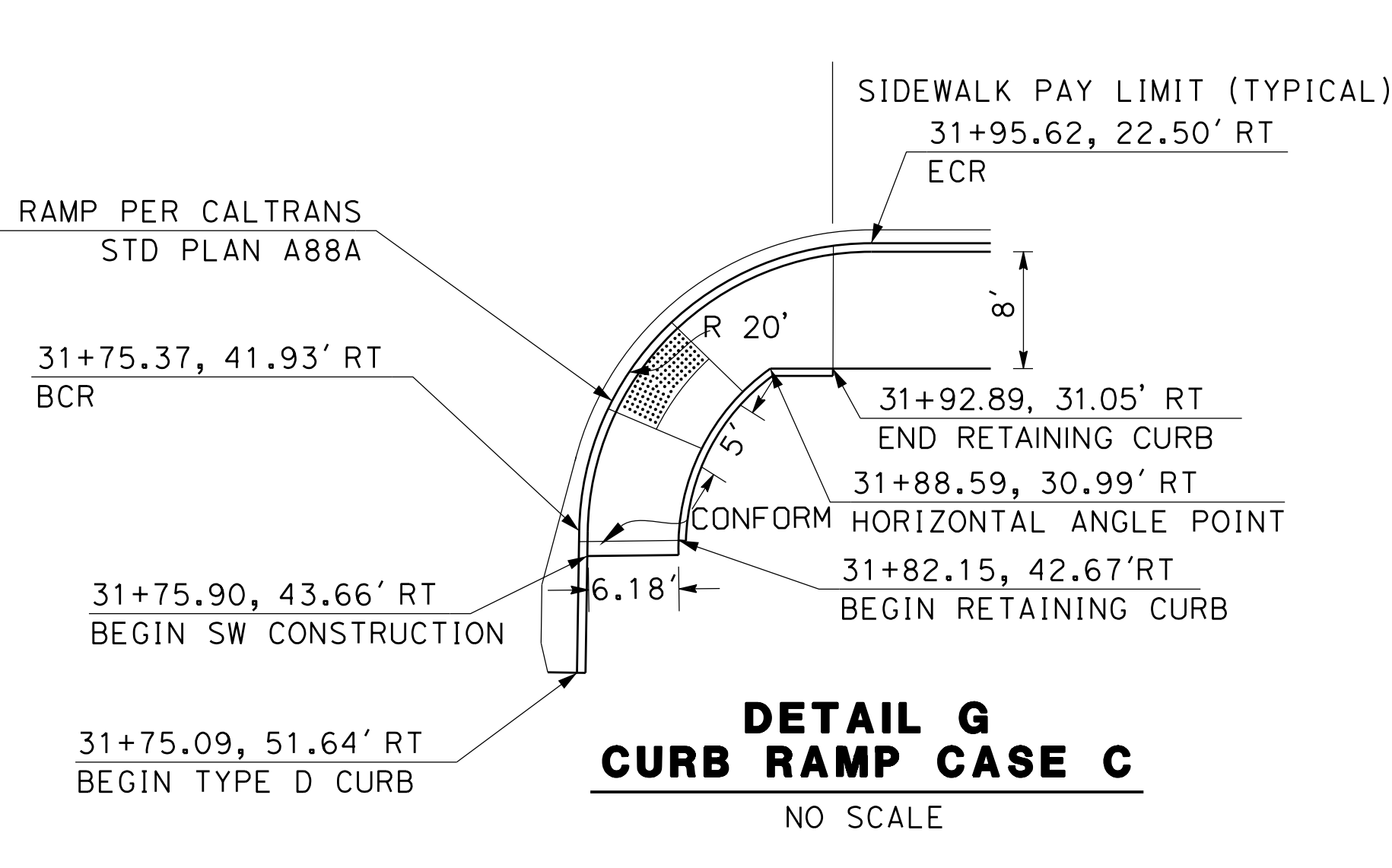
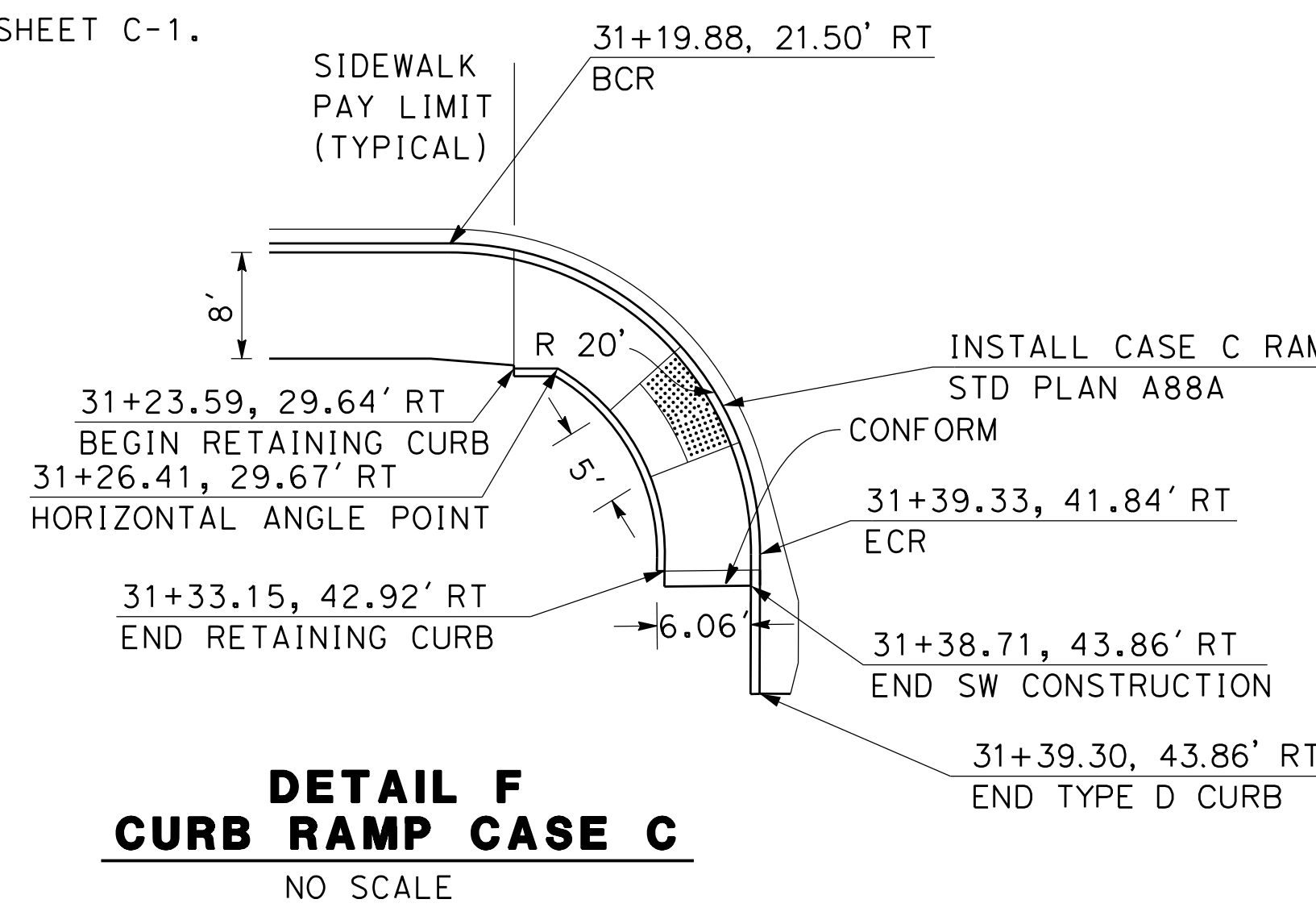
JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. C-3
DRAWING 16 OF 66

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NOTE: FOR NOTES AND LEGEND, SEE SHEET C-1.



DESIGNED	NO.	REVISION	BY	DATE
P. DONOVAN				
DRAWN				
P. DONOVAN				
CHECKED				
G. MANOREK				
APPROVED				

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
CONSTRUCTION PLAN
E 28+50 TO 33+50
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

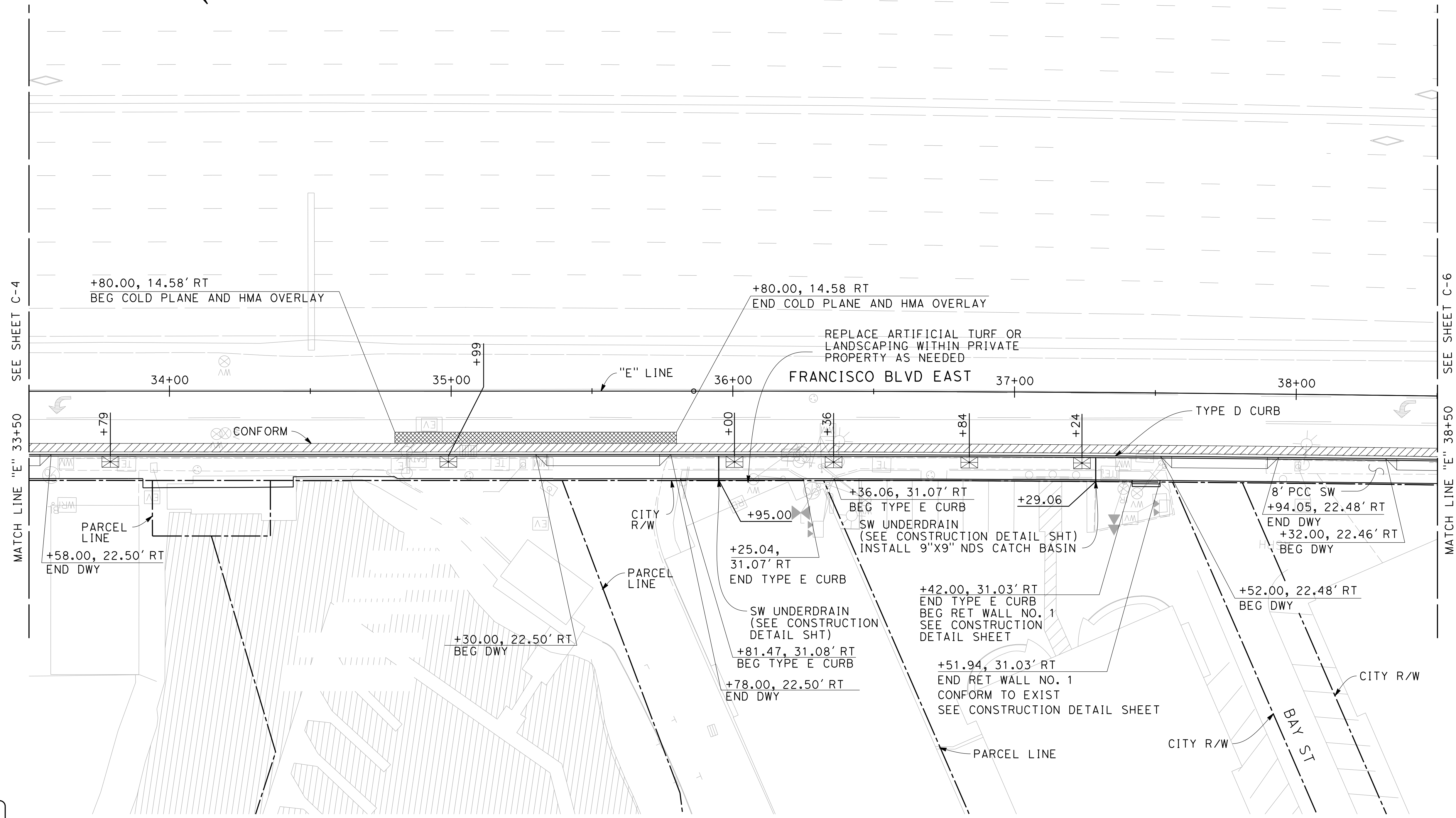
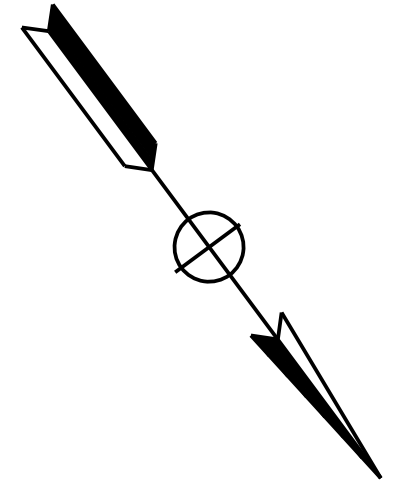
JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. C-4
DRAWING 17 OF 66

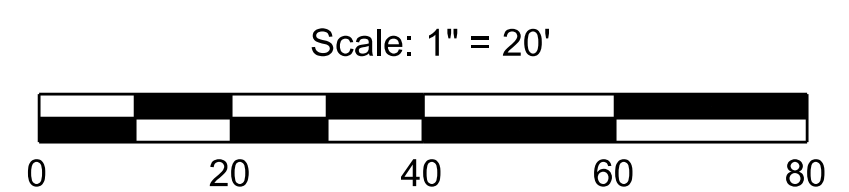
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NOTE: FOR NOTES AND LEGEND, SEE SHEET C-1.



SEE SHEET C-4
MATCH LINE "E" 33+50

SEE SHEET C-6
MATCH LINE "E" 38+50



DESIGNED	NO.	REVISION	BY	DATE
P. DONOVAN				
DRAWN				
P. DONOVAN				
CHECKED				
G. MANOREK				
APPROVED				

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
CONSTRUCTION PLAN
E 33+50 TO 38+50
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

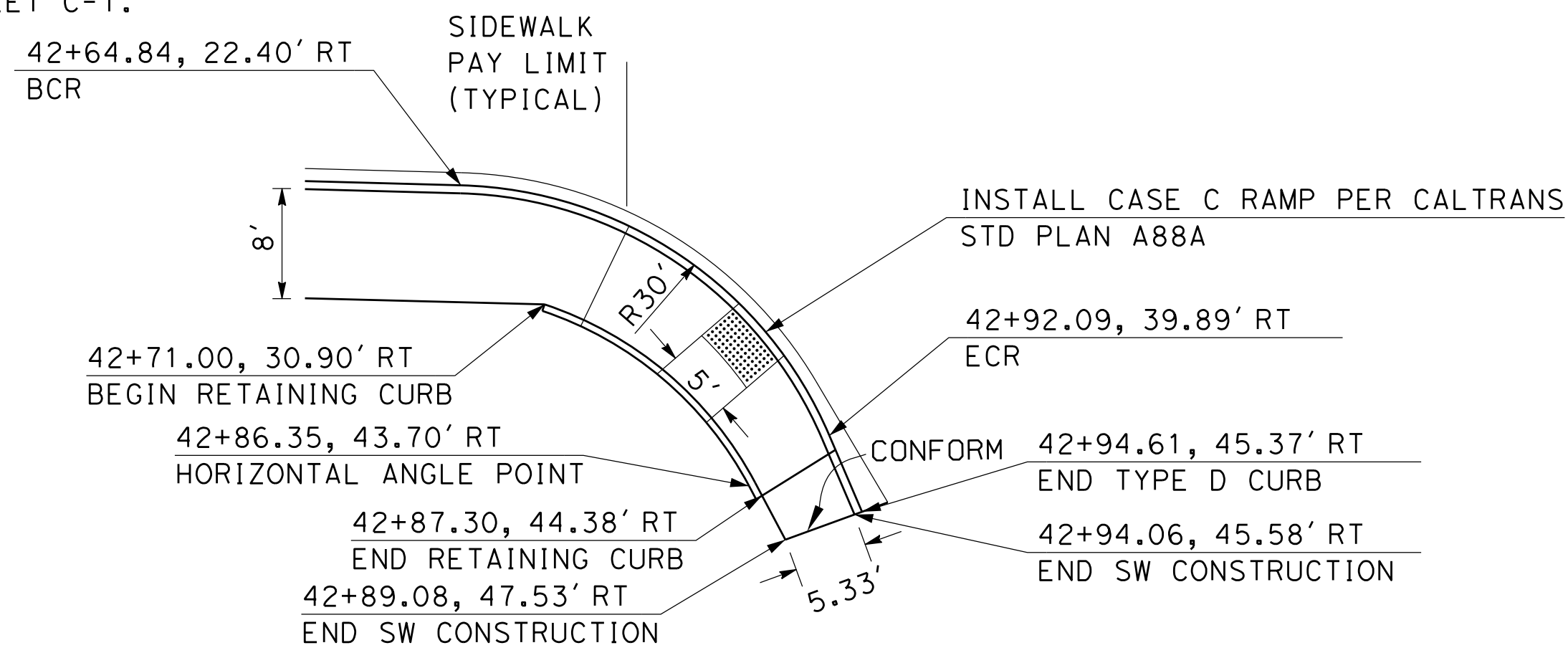
JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. C-5
DRAWING 18 OF 66

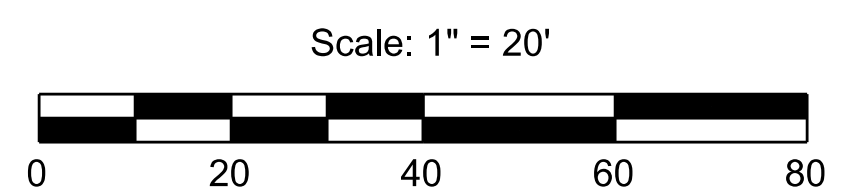
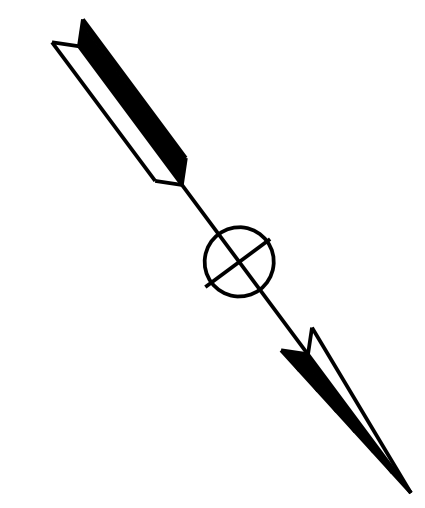
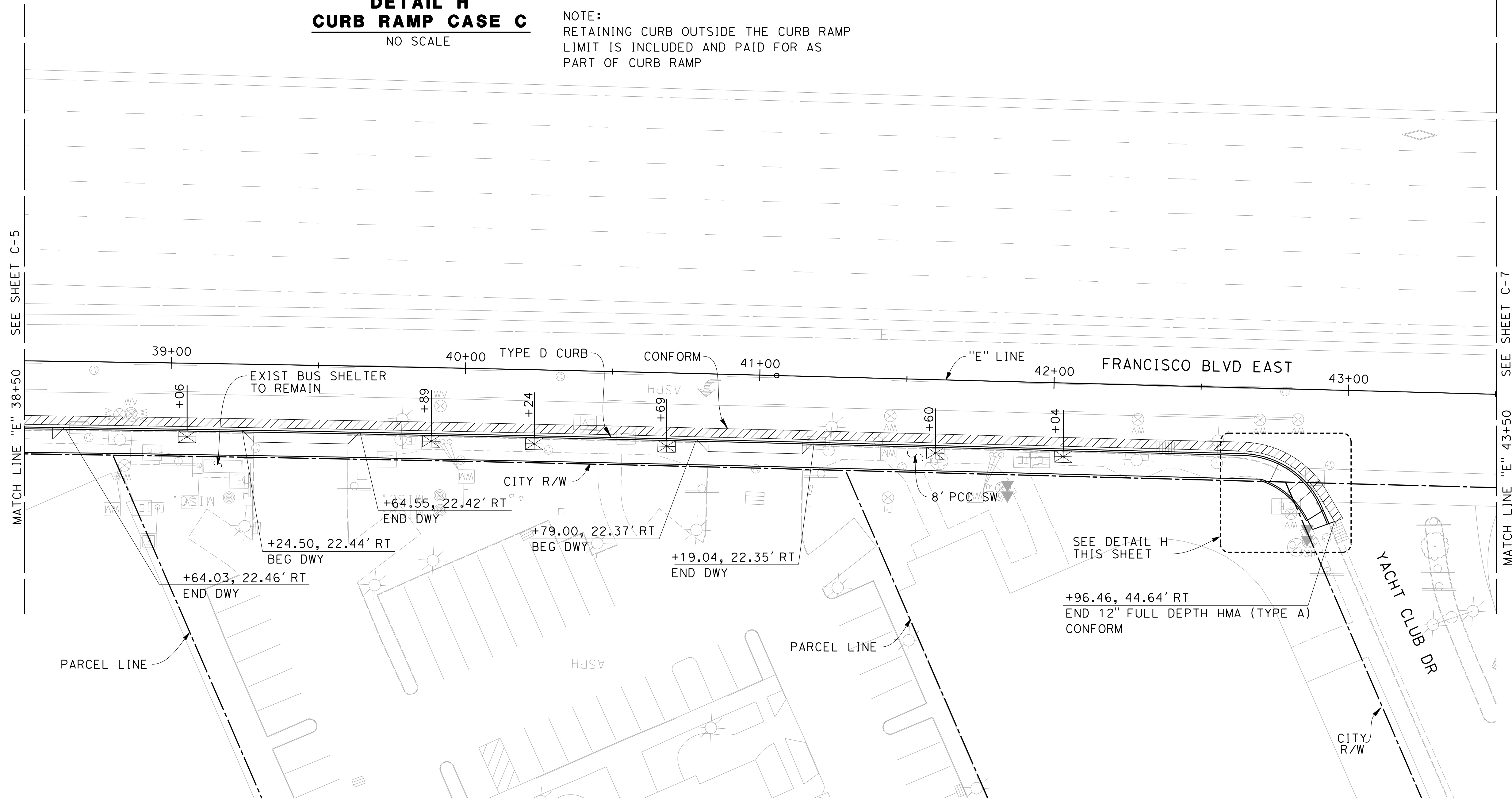
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NOTE: FOR NOTES AND LEGEND, SEE SHEET C-1.



**DETAIL H
CURB RAMP CASE C**
NO SCALE

NOTE:
RETAINING CURB OUTSIDE THE CURB RAMP
LIMIT IS INCLUDED AND PAID FOR AS
PART OF CURB RAMP



DESIGNED	NO.	REVISION	BY	DATE
P. DONOVAN				
DRAWN				
P. DONOVAN				
CHECKED				
G. MANOREK				
APPROVED				

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
CONSTRUCTION PLAN
"E" 38+50 TO 43+50

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

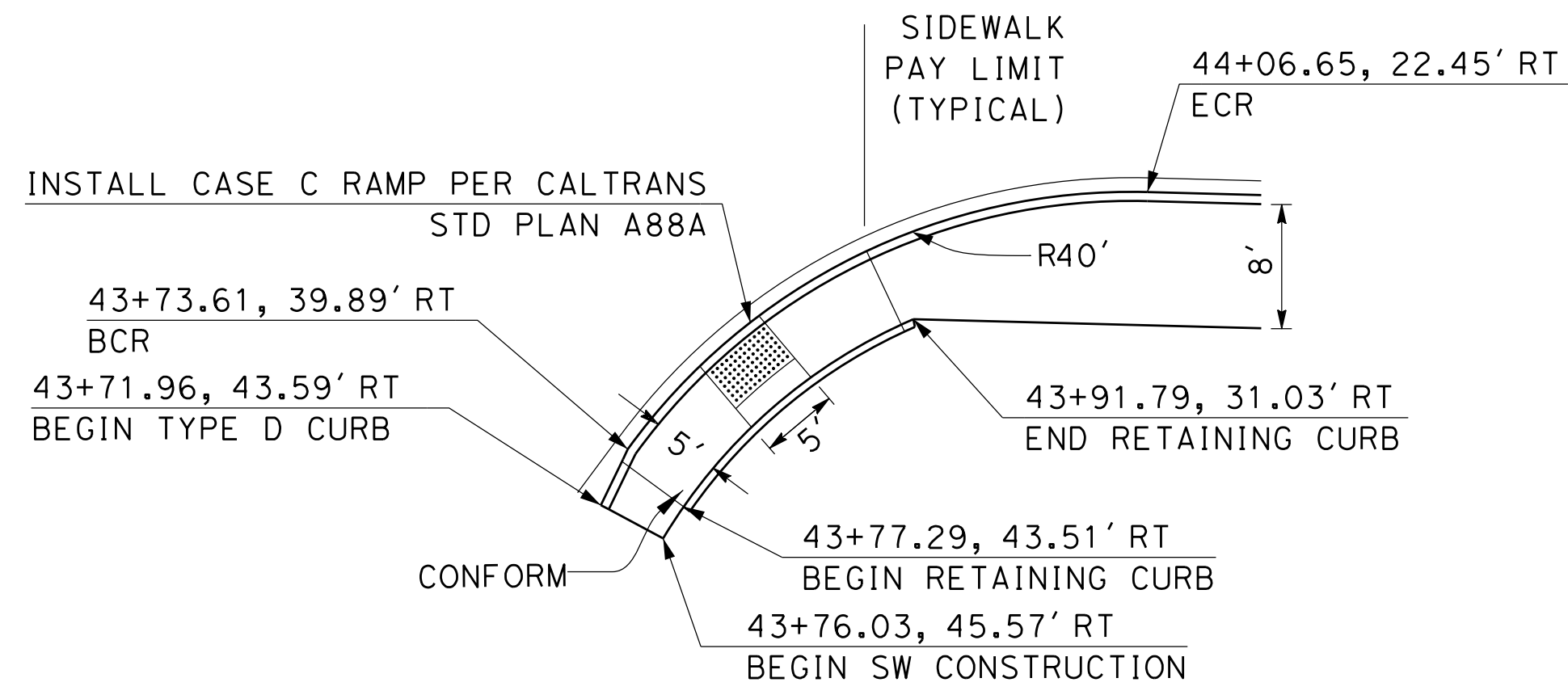
JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

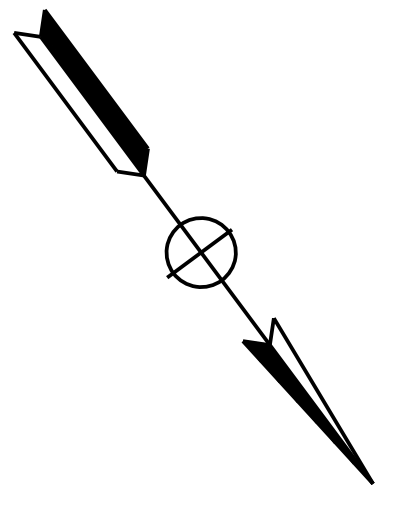
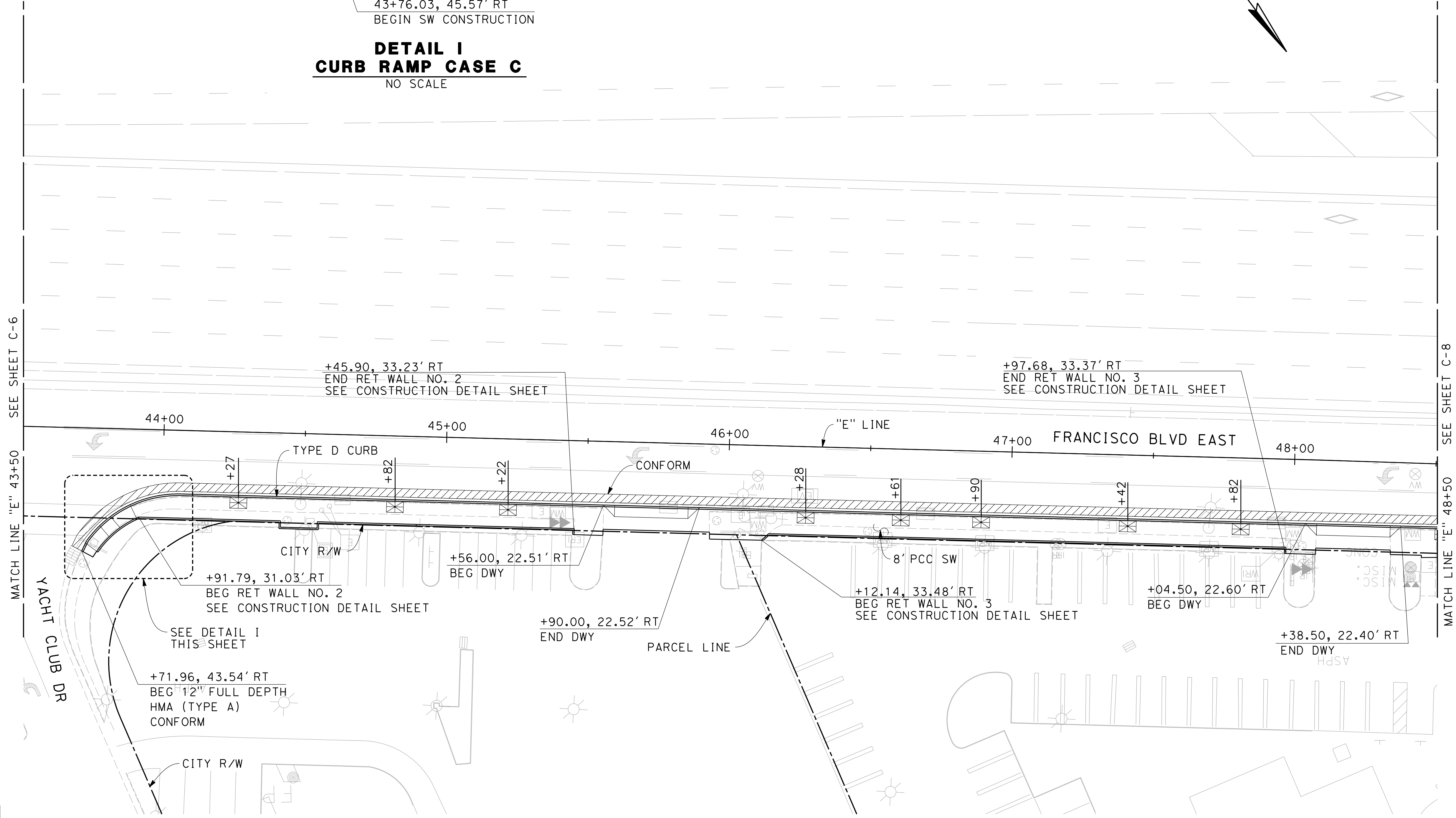
SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. C-6
DRAWING 19 OF 66

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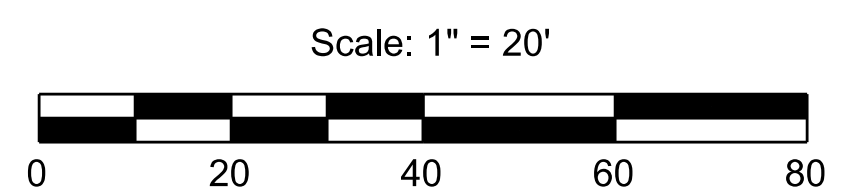
NOTE: FOR NOTES AND LEGEND, SEE SHEET C-1.



**DETAIL I
CURB RAMP CASE C**
NO SCALE



CALL TWO WORKING
DAYS BEFORE YOU DIG



DESIGNED	NO. REVISION	BY	DATE
P. DONOVAN			
DRAWN			
P. DONOVAN			
CHECKED			
G. MANOREK			
APPROVED			

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
CONSTRUCTION PLAN
E 43+50 TO 48+50

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

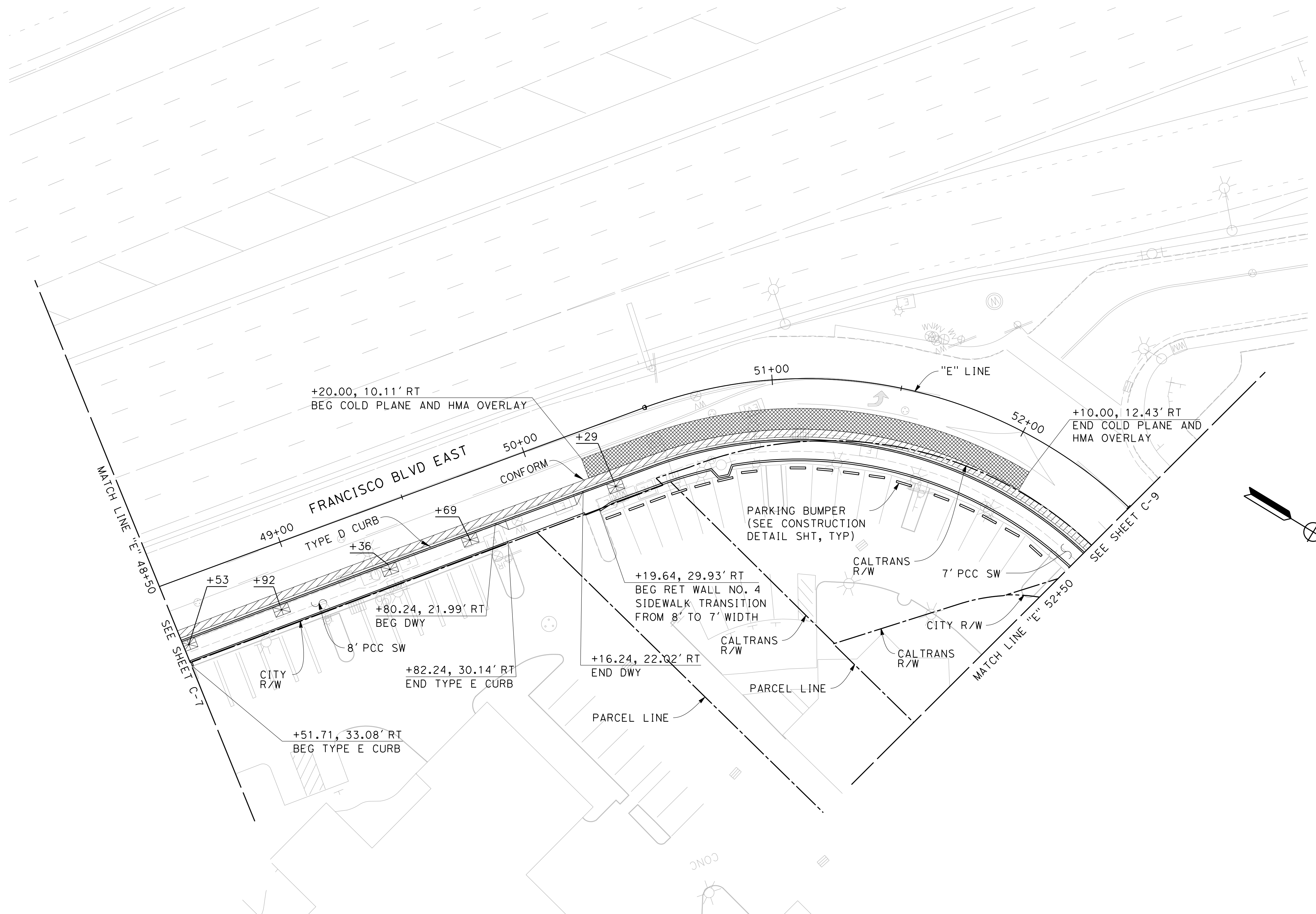
JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. C-7
DRAWING 200F 66

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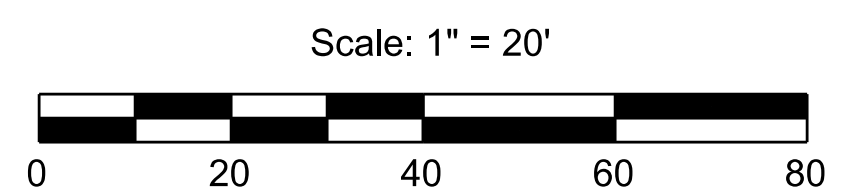
NOTE: FOR NOTES AND LEGEND, SEE SHEET C-1.



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DESIGNED	NO.	REVISION	BY	DATE
P. DONOVAN				
DRAWN				
P. DONOVAN				
CHECKED				
G. MANOREK				
APPROVED				

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
CONSTRUCTION PLAN
"E" 48+50 TO 52+50

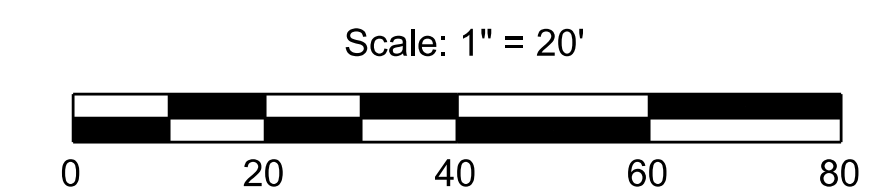
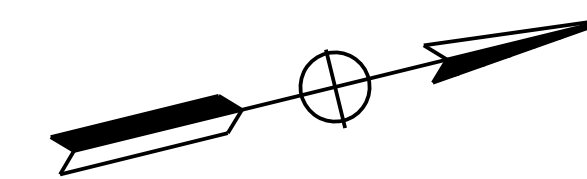
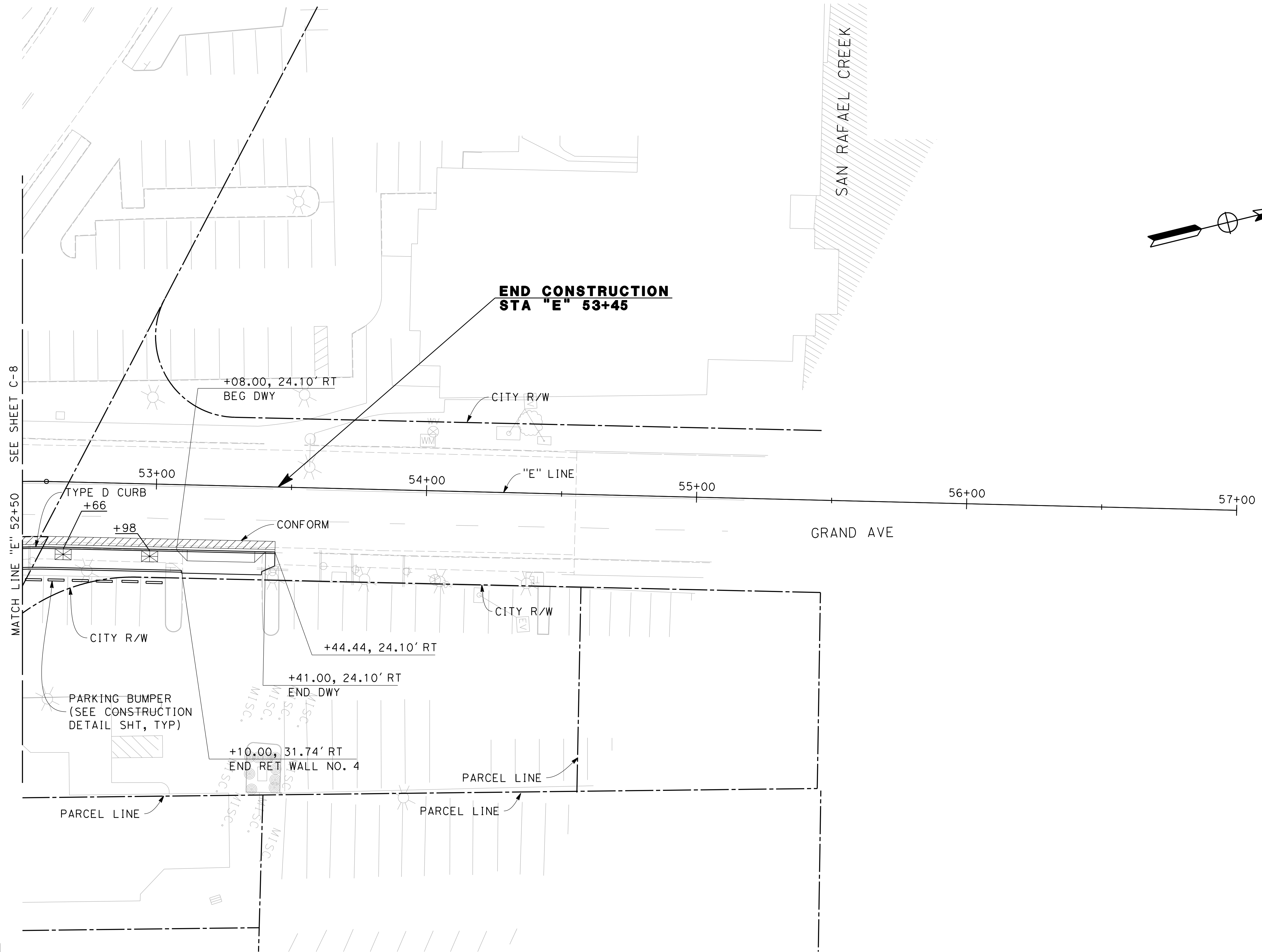
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. C-8
DRAWING 21 OF 66

NOTE: FOR NOTES AND LEGEND, SEE SHEET C-1.



DESIGNED	NO. REVISION	BY	DATE
P. DONOVAN			
DRAWN			
P. DONOVAN			
CHECKED			
G. MANOREK			
APPROVED			

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
CONSTRUCTION PLAN
"E" 52+50 TO 57+00

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

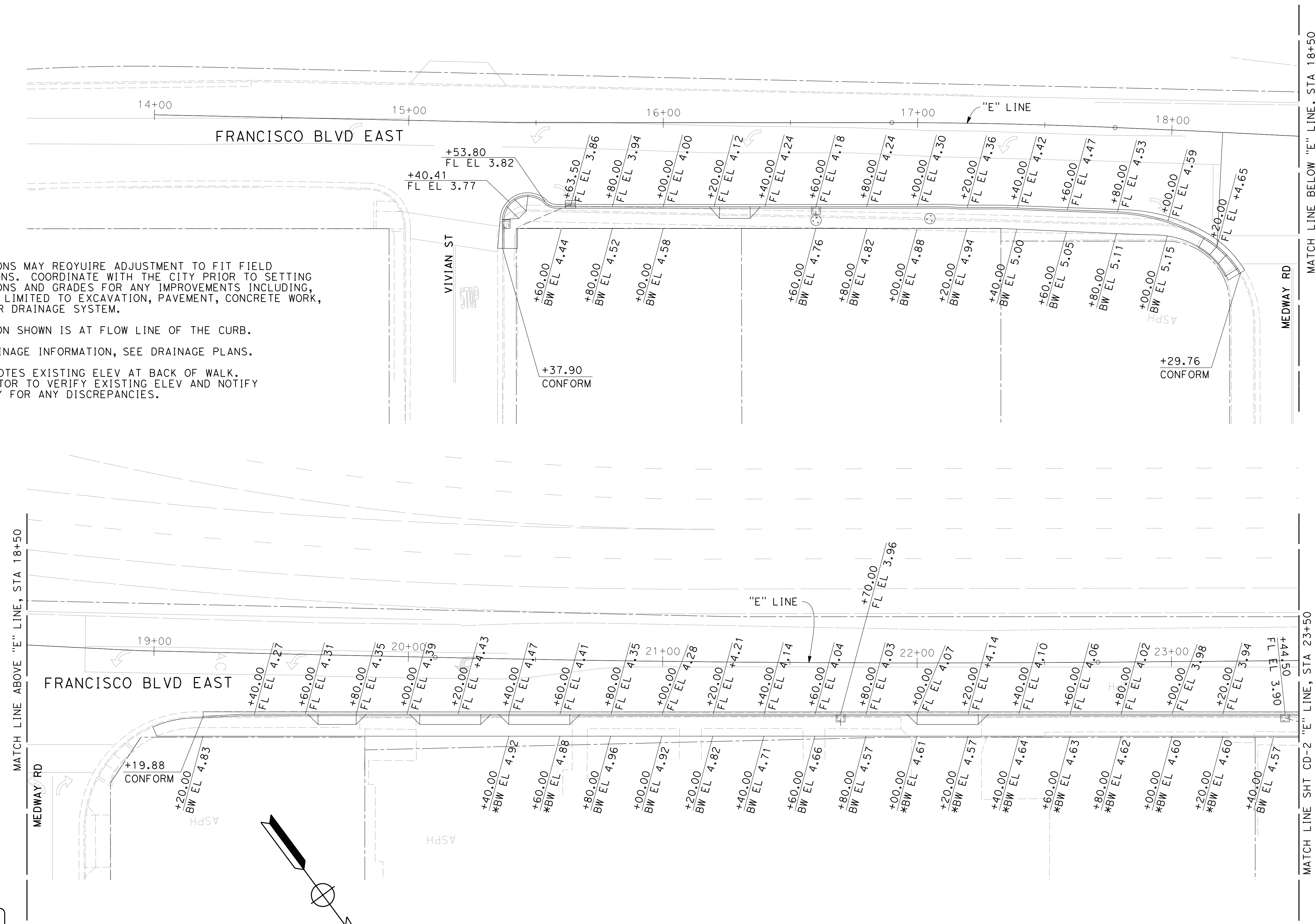
SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. C-9
DRAWING 22 OF 66

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NOTES:

1. ELEVATIONS MAY REQYUIRE ADJUSTMENT TO FIT FIELD CONDITIONS. COORDINATE WITH THE CITY PRIOR TO SETTING ELEVATIONS AND GRADES FOR ANY IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO EXCAVATION, PAVEMENT, CONCRETE WORK, WALLS OR DRAINAGE SYSTEM.
2. ELEVATION SHOWN IS AT FLOW LINE OF THE CURB.
3. FOR DRAINAGE INFORMATION, SEE DRAINAGE PLANS.
4. * ~ DENOTES EXISTING ELEV AT BACK OF WALK. CONTRACTOR TO VERIFY EXISTING ELEV AND NOTIFY THE CITY FOR ANY DISCREPANCIES.



CALL TWO WORKING DAYS BEFORE YOU DIG



DESIGNED	NO. REVISION	BY	DATE
P. DONOVAN			
DRAWN			
P. DONOVAN			
CHECKED			
G. MANOREK			
APPROVED			

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
PAVEMENT ELEVATION DETAILS
"E" 14+00 TO 20+50
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

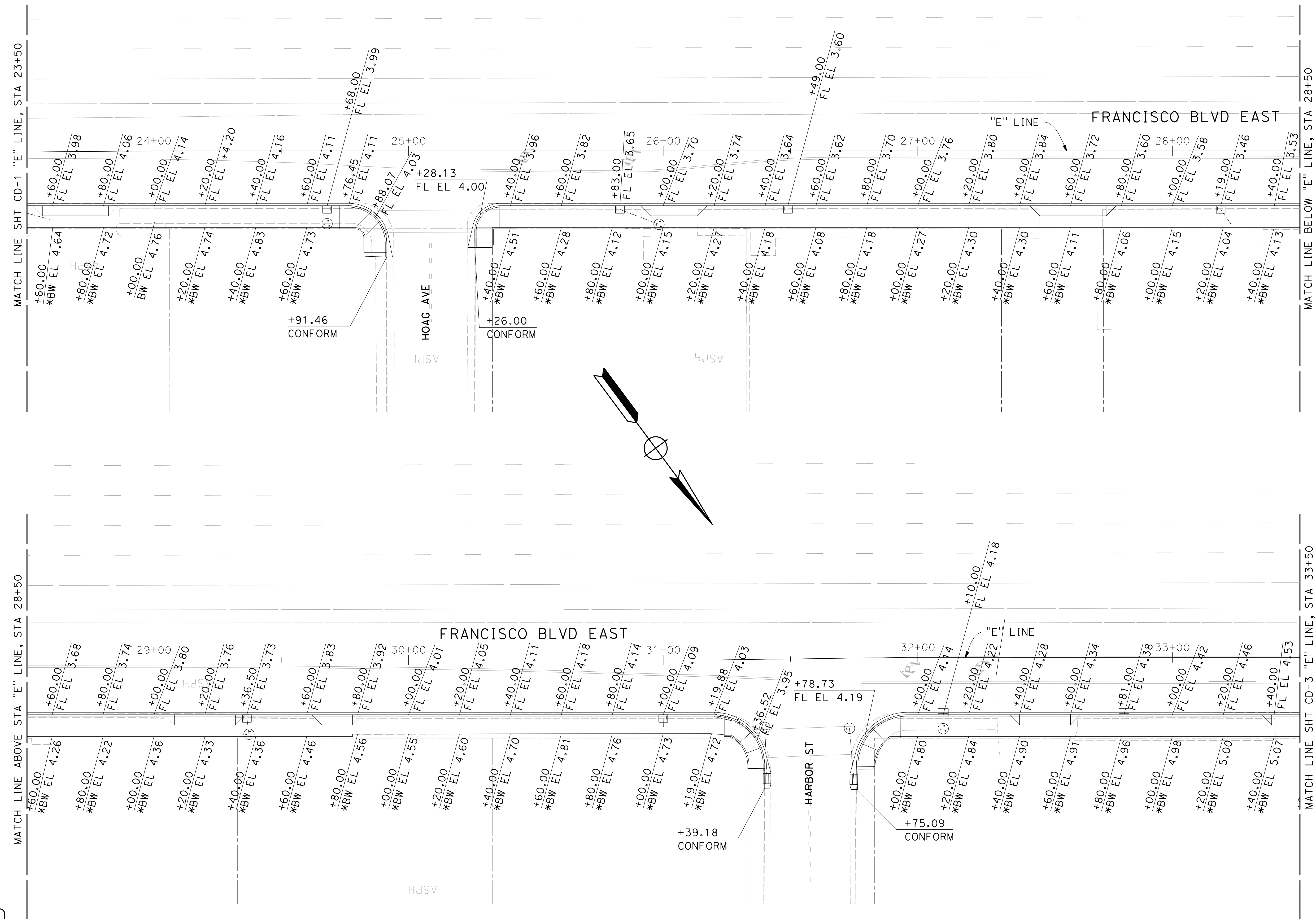
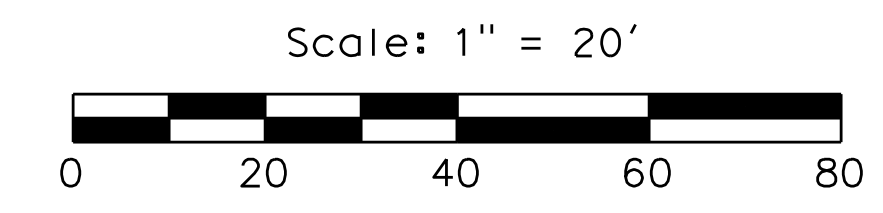
SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. CD-1
DRAWING 23 OF 66

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NOTES:
1. SEE SHEET CD-1 FOR NOTES



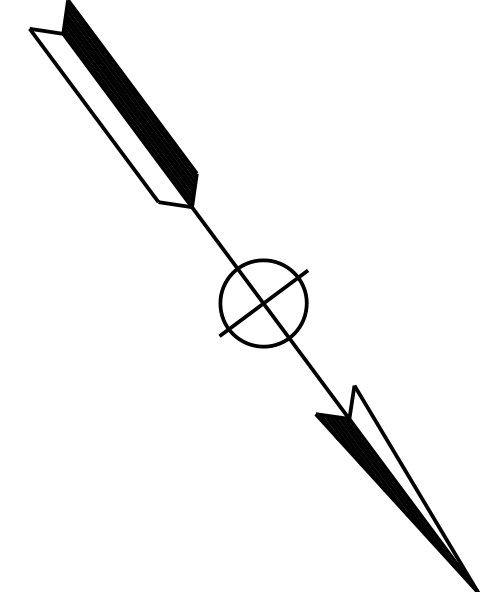
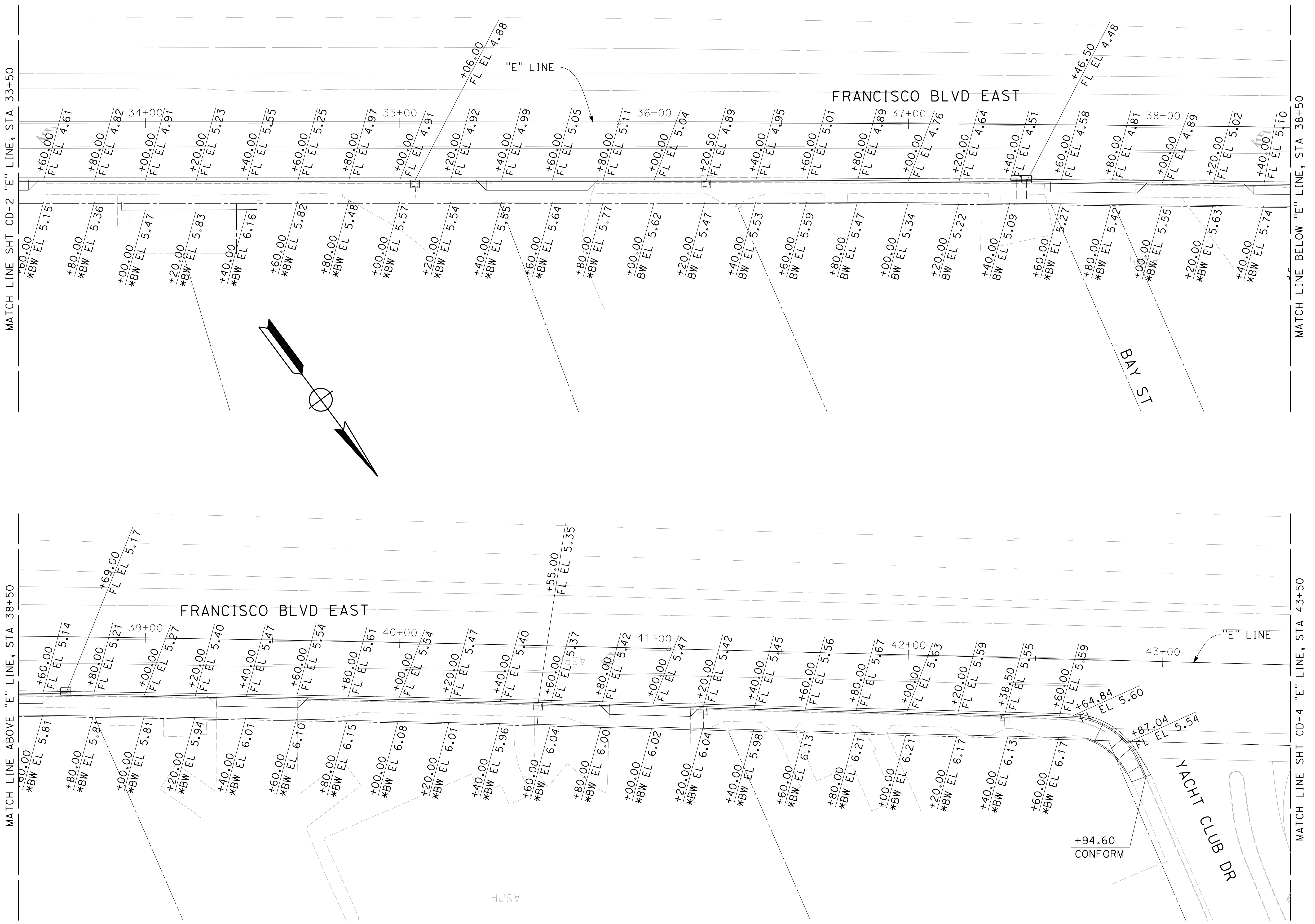
 <p>CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS</p>	<p>JACOBS 2485 NATOMAS PARK DR, STE 600 SACRAMENTO, CA 95833 PHONE (916) 920-0300</p>		<p>PROJECT NAME FRANCISCO BLVD EAST FROM VIVIAN ST TO GRAND AVE BRIDGE</p>	<p>DESIGNED P. DONOVAN</p>	<p>NO. REVISION BY DATE</p>
	<p>DRAWING NAME PAVEMENT ELEVATION DETAILS</p>		<p>DRAWN P. DONOVAN</p>	<p>CHECKED G. MANOREK</p>	<p>DATE</p>
	<p>"E" 23+50 TO 33+50</p>		<p>APPROVED</p>	<p>DATE</p>	<p>DATE</p>
	<p>SAN RAFAEL COUNTY OF MARIN CALIFORNIA</p>		<p>DATE</p>	<p>DATE</p>	<p>DATE</p>

SCALE AS NOTED
 DATE July 2019
 PROJECT NO. 11349
 SHEET NO. CD-2
 DRAWING 24 OF 66

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NOTES:
1. SEE SHEET CD-1 FOR NOTES



CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
PAVEMENT ELEVATION DETAILS

DESIGNED BY: P. DONOVAN
DRAWN BY: P. DONOVAN
CHECKED BY: G. MANOREK
APPROVED BY: [Signature]

SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. CD-3
DRAWING 25 OF 66

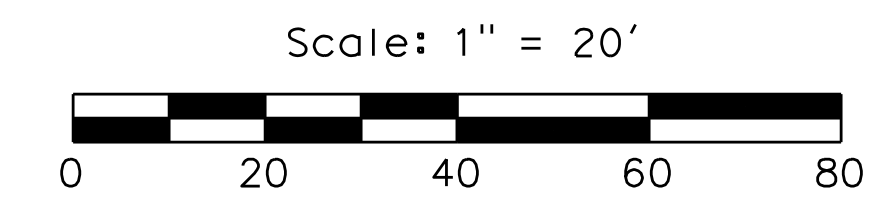
NO. REVISION BY DATE

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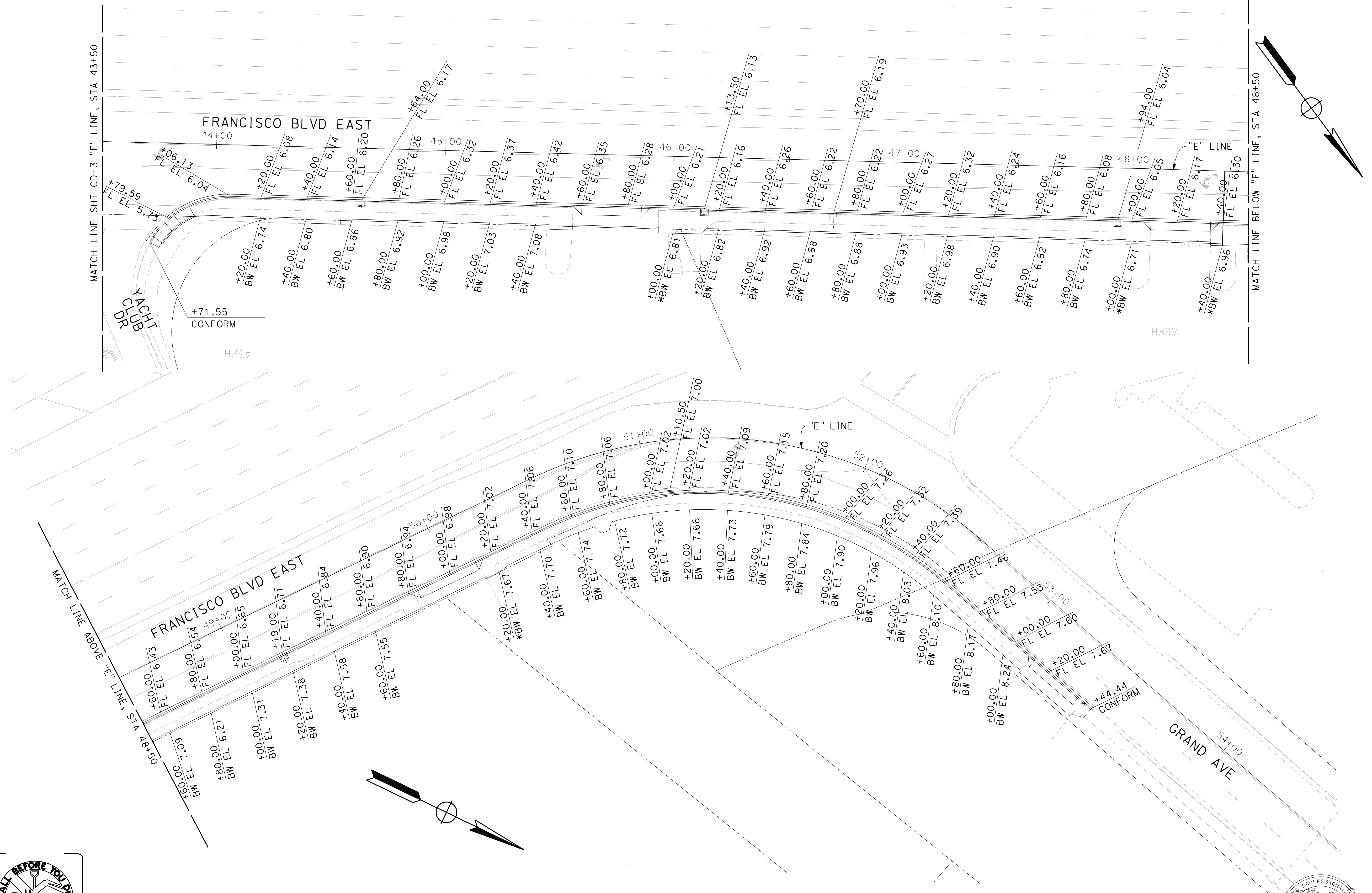


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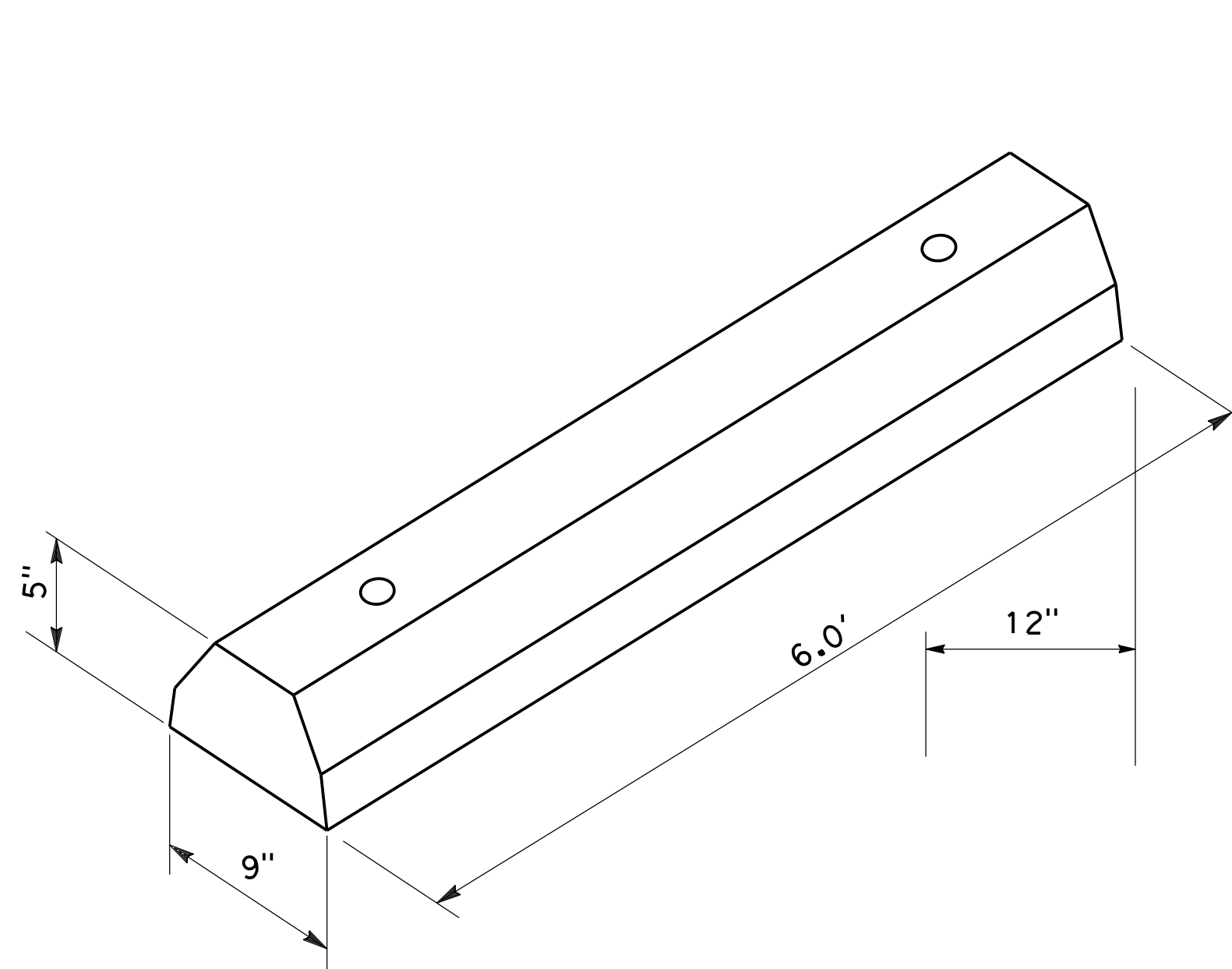
- NOTES:
- SEE SHEET CD-1 FOR NOTES



Scale: 1" = 20'

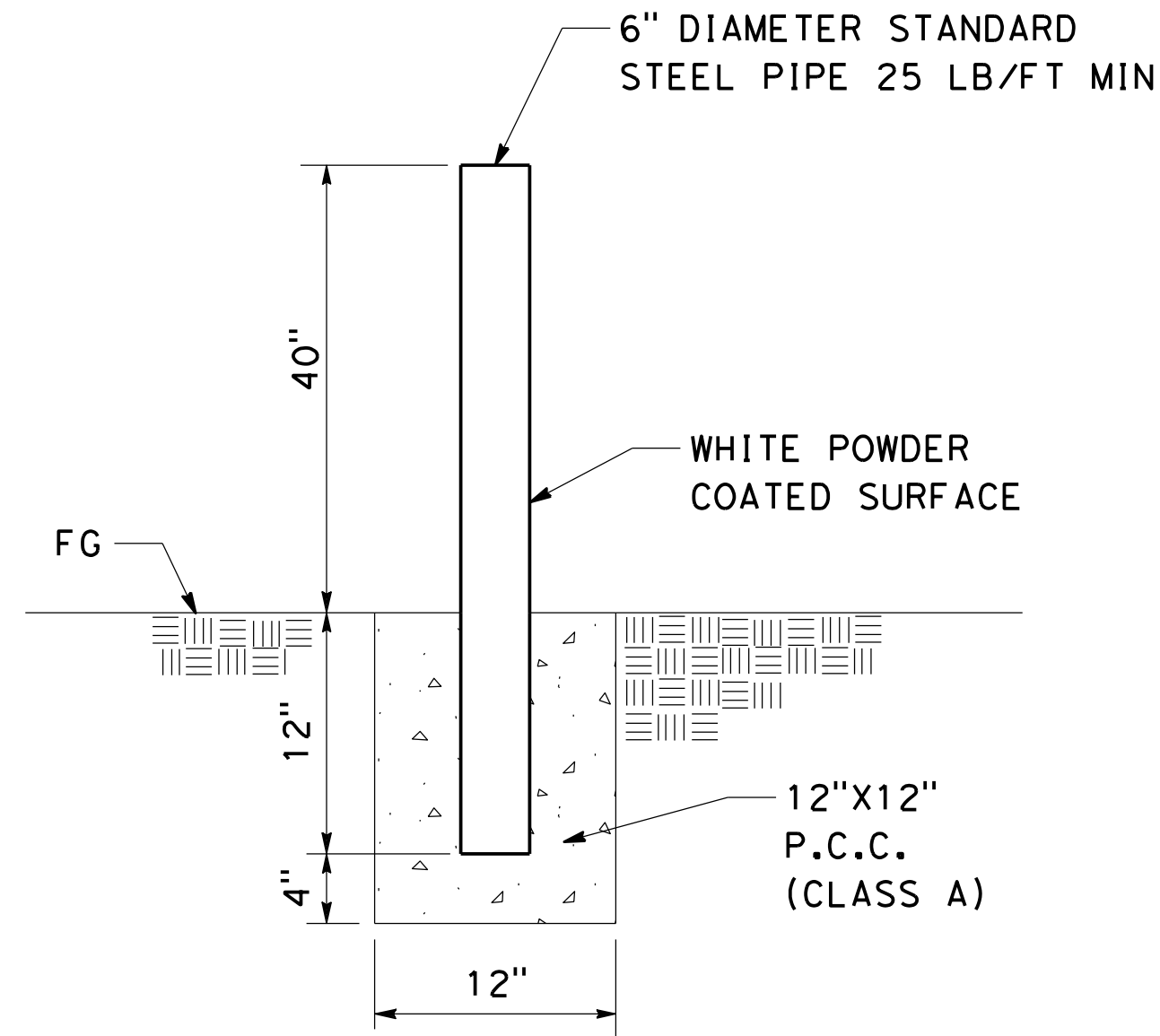


<p>CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS</p>	<p>SCALE AS NOTED</p> <p>DATE July 2019</p> <p>PROJECT NO. 11349</p> <p>SHEET NO. CD-4</p> <p>DRAWING 26 OF 66</p>																																	
	<p>2485 NATOMAS PARK DR, STE 600 SACRAMENTO, CA 95833 PHONE (916) 920-0300</p>																																	
<p>JACOBS 2485 NATOMAS PARK DR, STE 600 SACRAMENTO, CA 95833 PHONE (916) 920-0300</p>	<p>PROJECT NAME FRANCISCO BLVD EAST FROM VIVIAN ST TO GRAND AVE BRIDGE</p> <p>DRAWING NAME PAVEMENT ELEVATION DETAILS</p> <p>"E" 43+50 TO 54+55 SAN RAFAEL COUNTY OF MARIN CALIFORNIA</p>	<table border="1"> <tr> <td>DESIGNED</td> <td>NO. REVISION</td> <td>BY</td> <td>DATE</td> </tr> <tr> <td>P. DONOVAN</td> <td></td> <td></td> <td></td> </tr> <tr> <td>DRAWN</td> <td></td> <td></td> <td></td> </tr> <tr> <td>P. DONOVAN</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHECKED</td> <td></td> <td></td> <td></td> </tr> <tr> <td>G. MANOREK</td> <td></td> <td></td> <td></td> </tr> <tr> <td>APPROVED</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>	DESIGNED	NO. REVISION	BY	DATE	P. DONOVAN				DRAWN				P. DONOVAN				CHECKED				G. MANOREK				APPROVED							
DESIGNED	NO. REVISION	BY	DATE																															
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P. DONOVAN																																		
CHECKED																																		
G. MANOREK																																		
APPROVED																																		



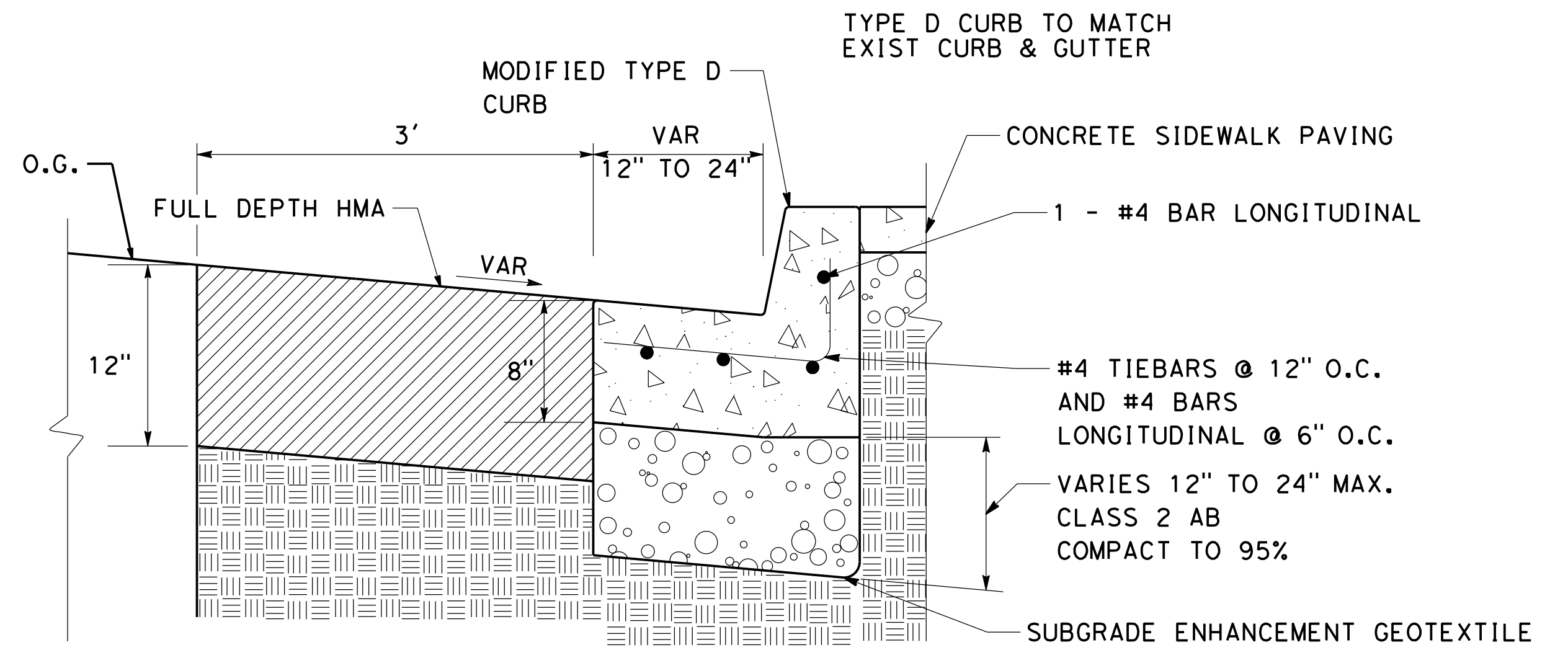
PARKING BUMPER

SEE CONSTRUCTION PLANS FOR LOCATION



BOLLARD DETAIL

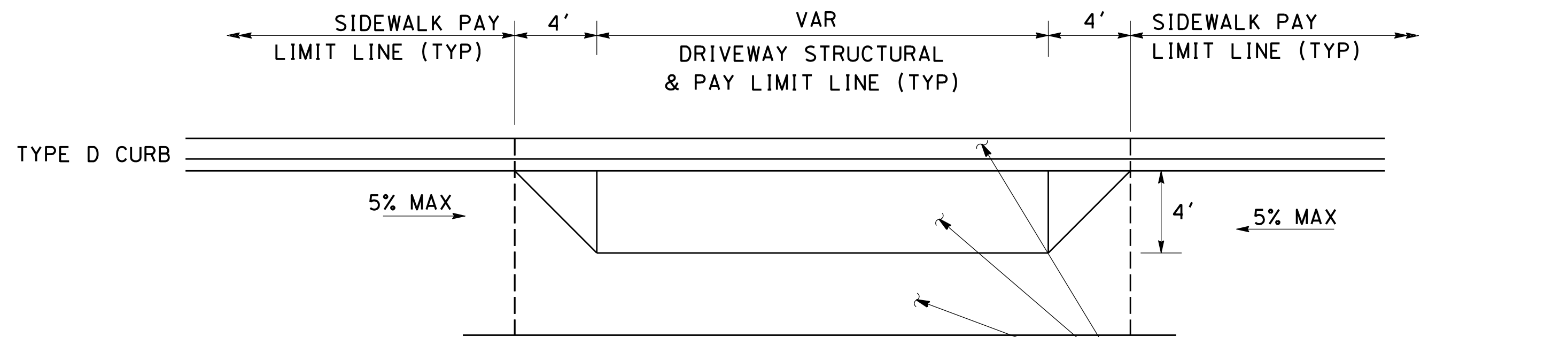
SEE CONSTRUCTION PLANS FOR LOCATION



NOTE:
IN WET SUBGRADE CONDITIONS, OVEREXCAVATE TO REMOVE WET MATERIAL UP TO A MAX OF 24". INSTALL SUBGRADE ENHANCEMENT GEOTEXTILE AND BACKFILL WITH CLASS 2 AB AND COMPACT TO 95%.

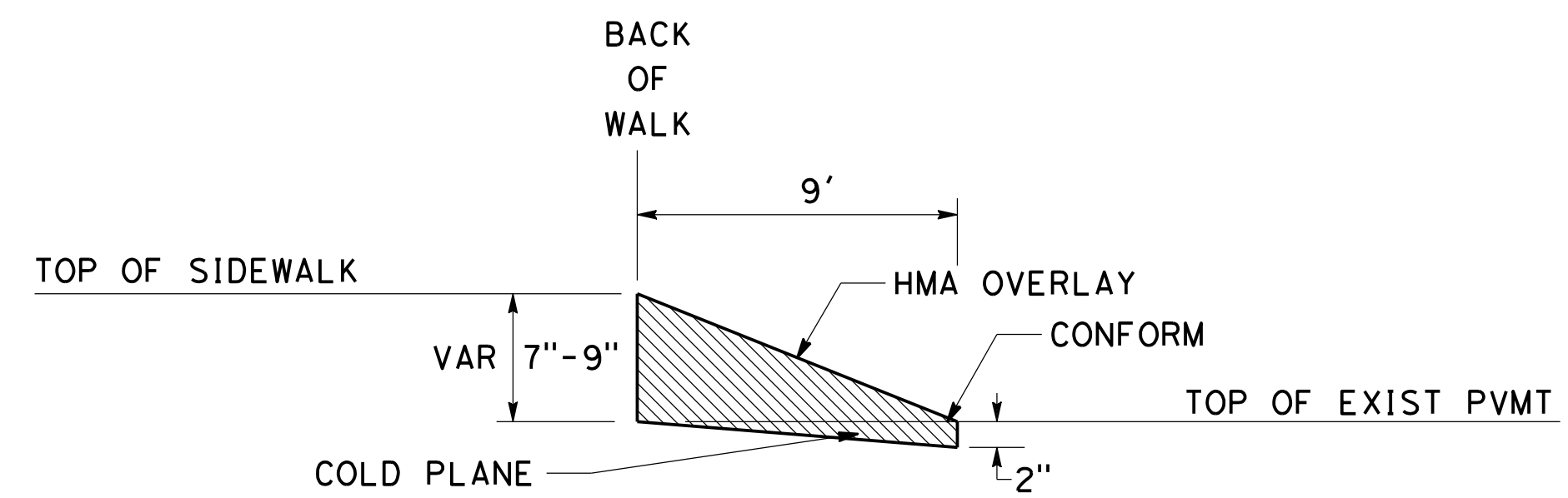
REINFORCED CURB AND GUTTER

SEE CONSTRUCTION PLAN SHEET C-1 FOR LOCATION AND DWG NO. 105 FOR INFORMATION NOT SHOWN



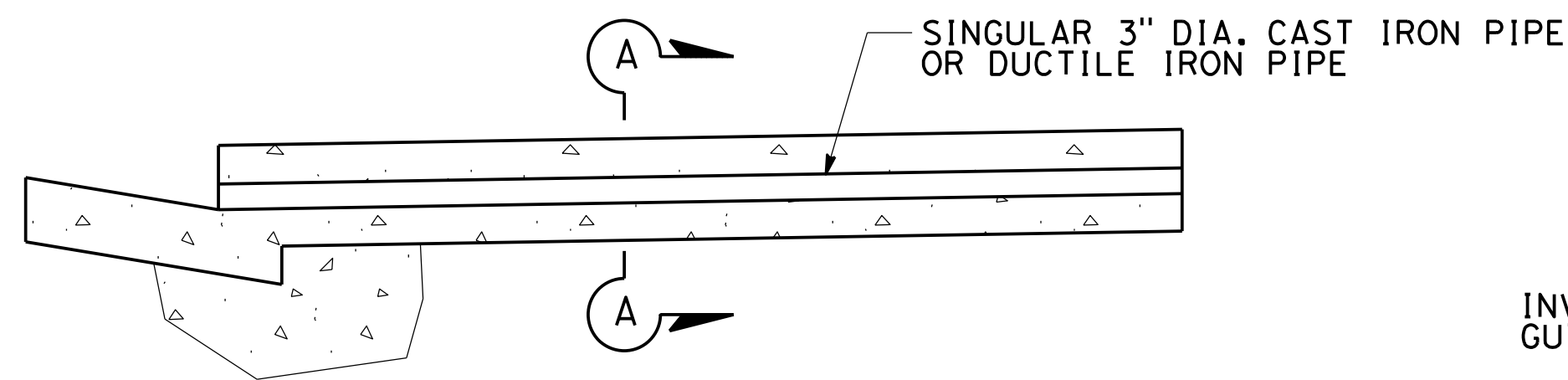
DRIVEWAY

SEE CONSTRUCTION PLANS FOR LOCATIONS
SEE DWG NO. 115 AND 120 FOR INFORMATION NOT SHOWN



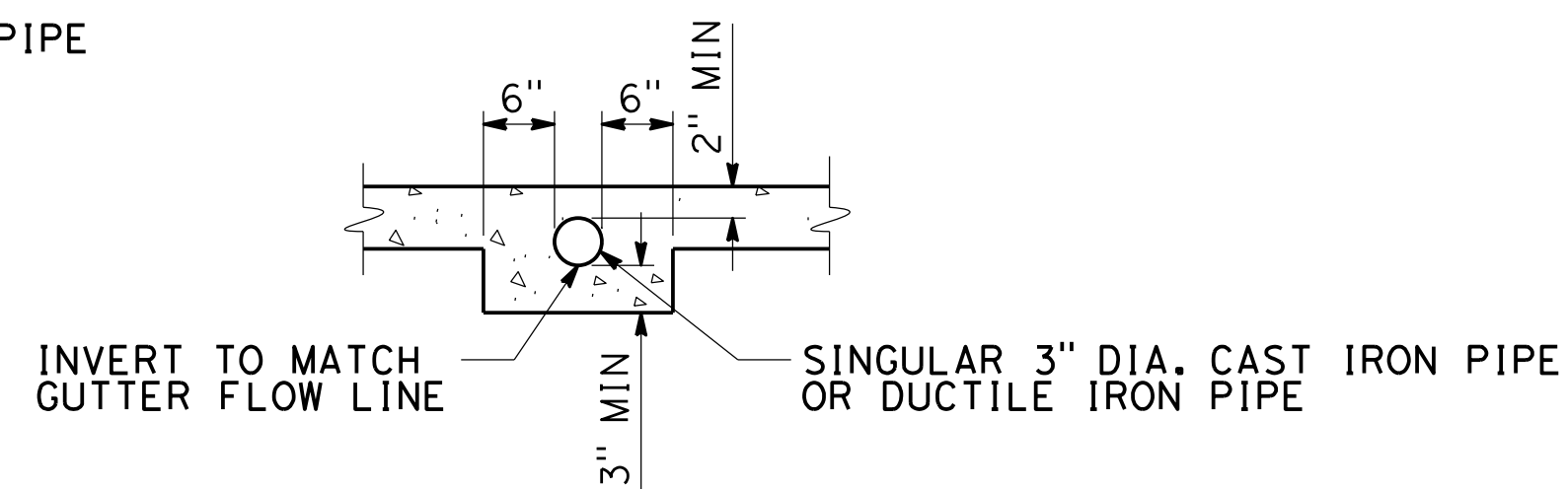
**DRIVEWAY CONFORM
MISCELLANEOUS HMA CONSTRUCTION**

SEE CONSTRUCTION PLAN SHEET C-1 FOR LOCATION



SIDEWALK UNDERDRAIN

FOR LOCATIONS SEE CONSTRUCTION PLANS
SEE DWG NO. 145 FOR INFORMATION NOT SHOWN



SECTION A-A



CALL TWO WORKING
DAYS BEFORE YOU DIG



DESIGNED	NO.	REVISION	BY	DATE
P. DONOVAN				
DRAWN				
P. DONOVAN				
CHECKED				
G. MANOREK				
APPROVED				

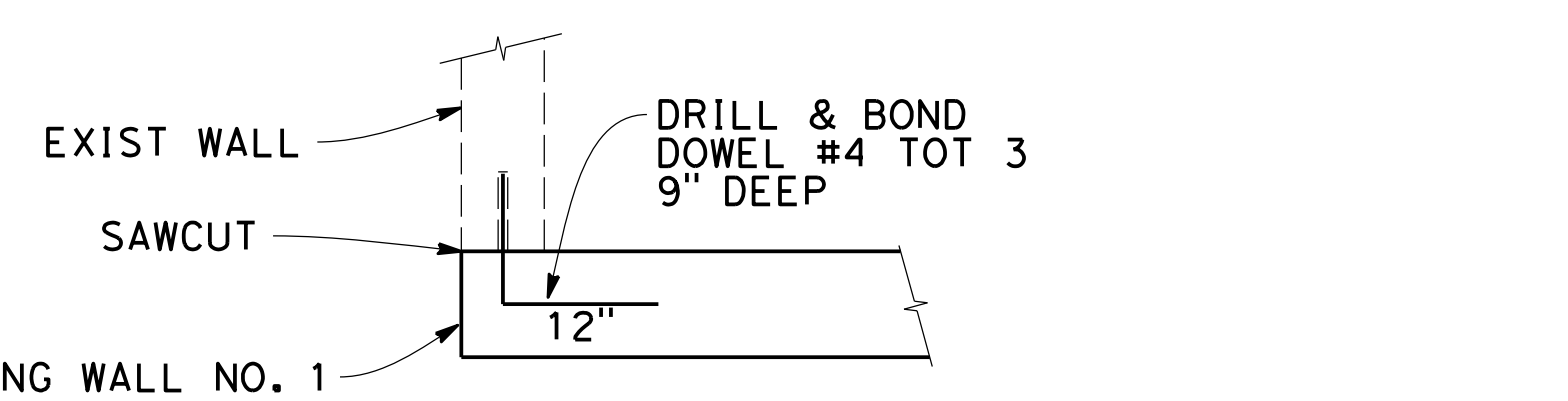
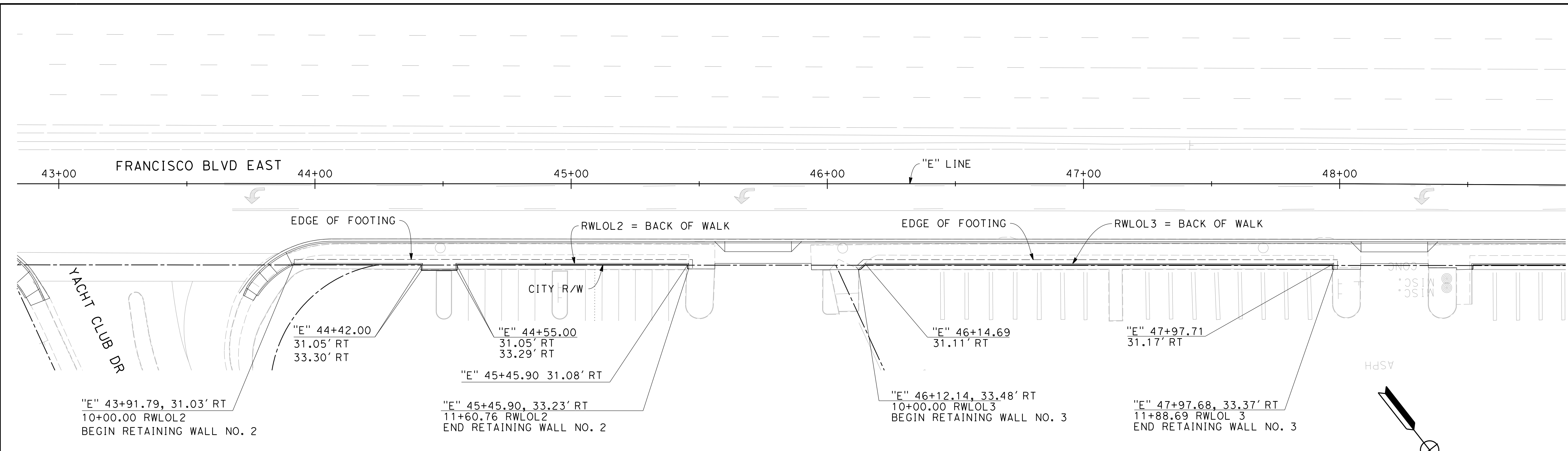
PROJECT NAME	FRANCISCO BLVD EAST
DRAWING NAME	CONSTRUCTION DETAILS
FROM	VIVIAN ST TO GRAND AVE BRIDGE
CHECKED	
APPROVED	
DATE	
COUNTY	MARIN
STATE	CALIFORNIA

JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

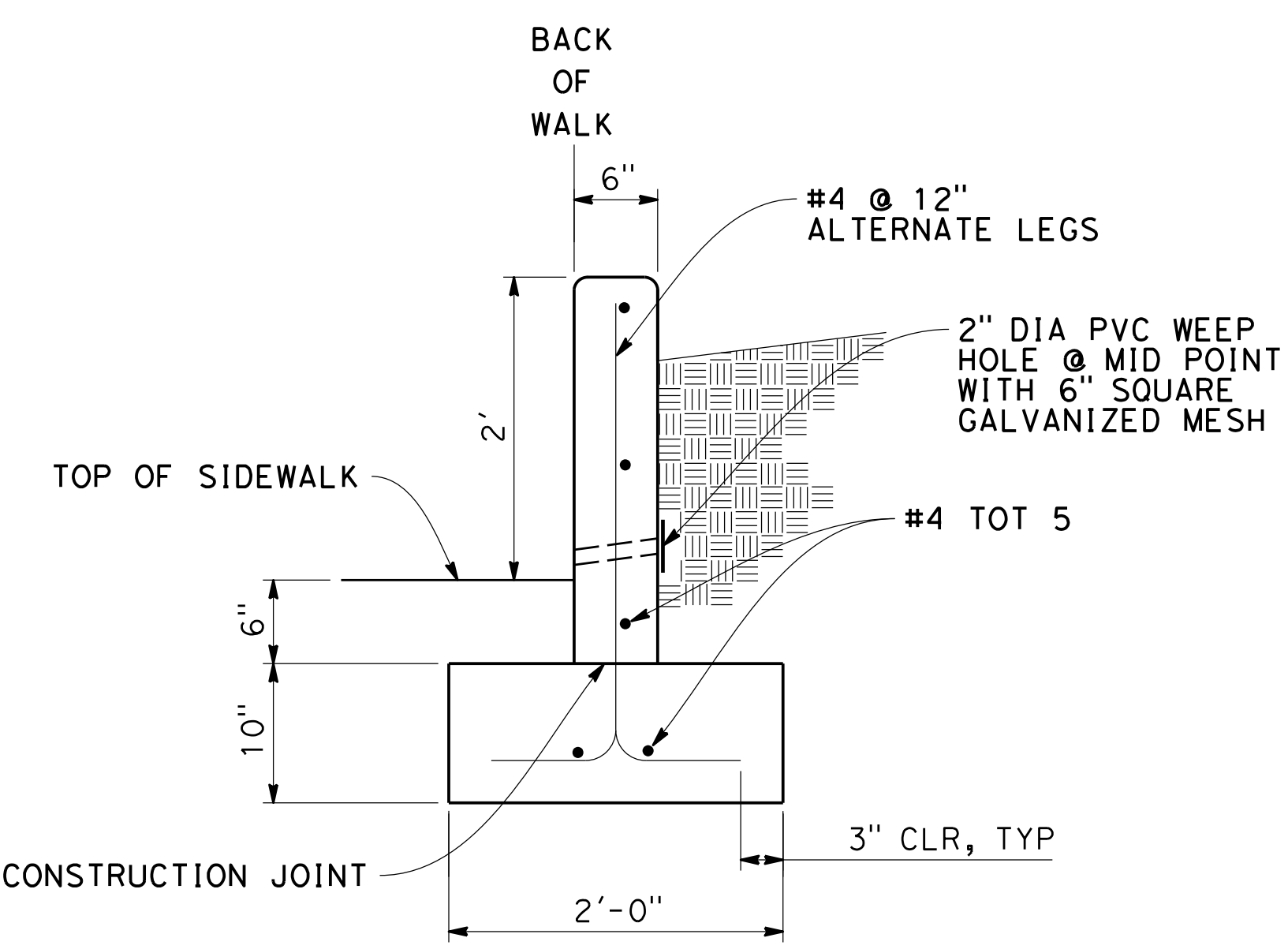
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

NOT TO SCALE
DATE July 2019
PROJECT NO. 11349
SHEET NO. CD-5
DRAWING 27 OF 66

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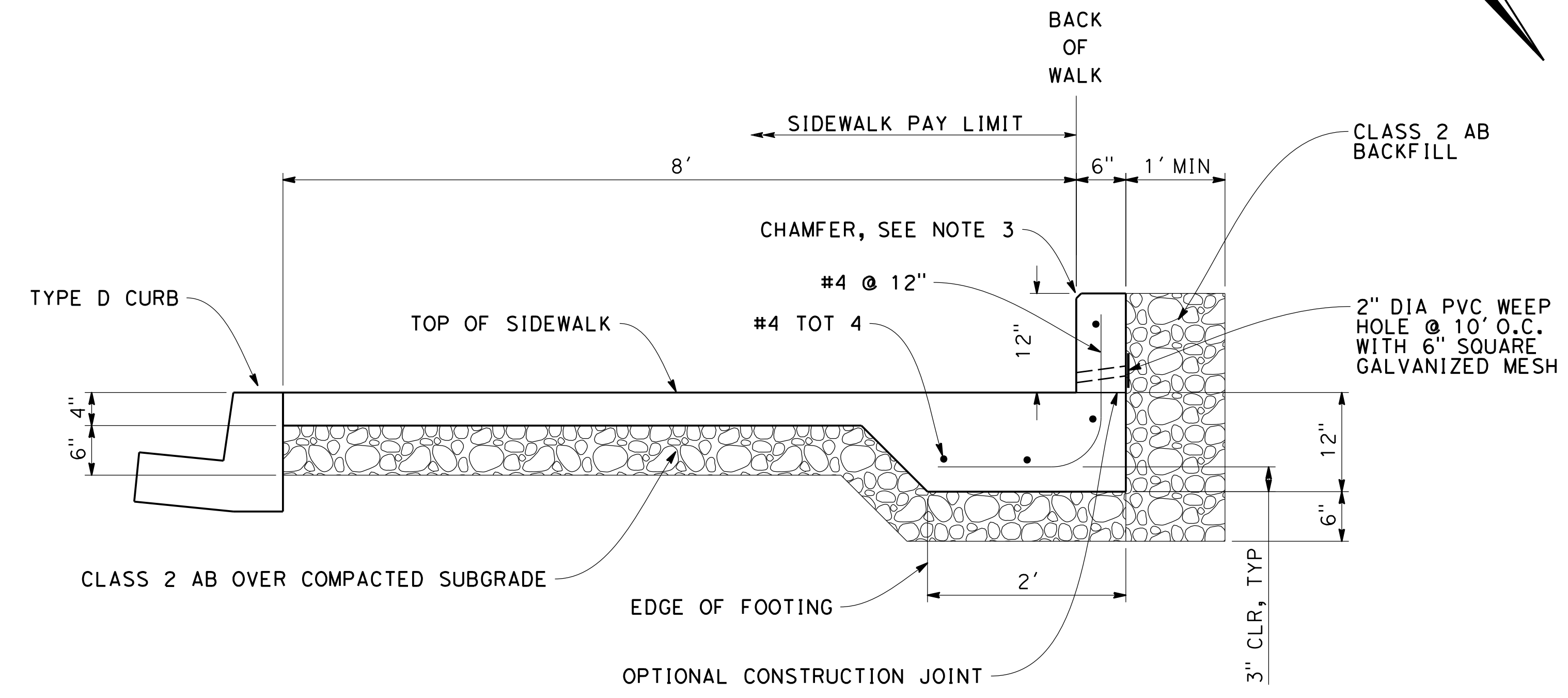


PLAN



SECTION

RETAINING WALL NO. 1
SEE SHEET C-5 FOR LOCATION



RETAINING WALL NO. 2
RETAINING WALL NO. 3
SECTION LOOKING UP STATION

NOTES:

1. COST OF CONCRETE, WEEPHOLES, GALVANISED MESH, REBAR AND SKATE CLIPS ARE INCLUDED IN EACH RESPECTIVE "RETAINING WALL" BID ITEMS.
2. ALL SIDEWALK FROM BACK OF CURB TO FACE OF RETAINING WALL SHALL BE MEASURED AND PAID FOR IN THE BID ITEM "4-INCH THICK PCC SIDEWALK" DESPITE THE VARYING THICKNESS FROM 4 TO 12 INCHES
3. CONTRACTOR SHALL FURNISH AND INSTALL SKATE CLIPS WITH 90° ELBOW @ 6' ON CENTER. COST INCLUDED IN RETAINING WALL ITEM. SUBMIT TWO SAMPLES FOR REVIEW.



CALL TWO WORKING DAYS BEFORE YOU DIG



DESIGNED	NO.	REVISION	BY	DATE
P. DONOVAN				
DRAWN				
P. DONOVAN				
CHECKED				
G. MANOREK				
APPROVED				

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
CONSTRUCTION DETAILS

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

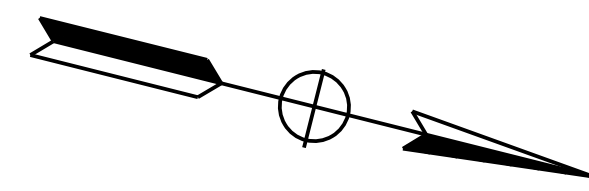
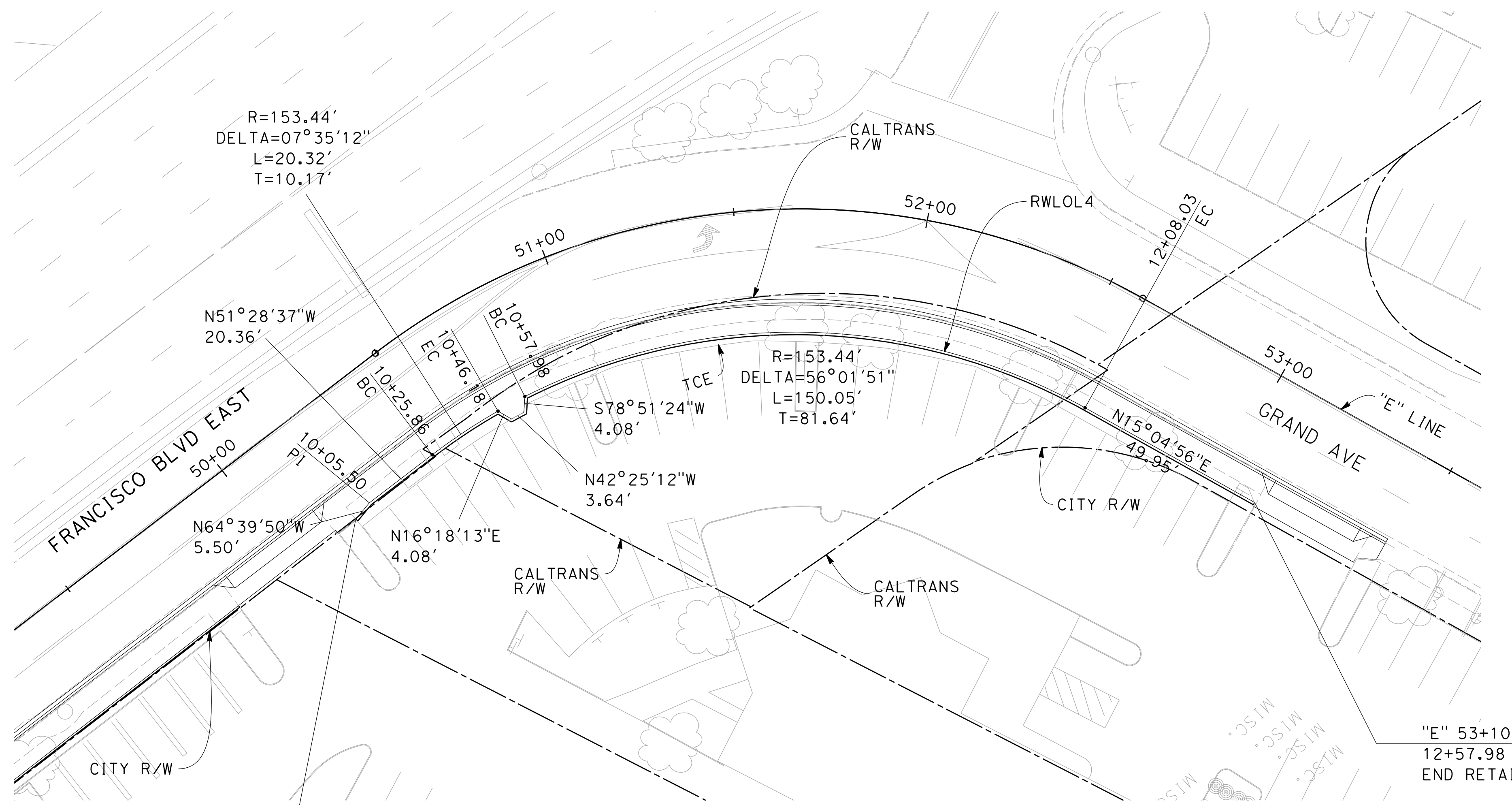
JACOBS

2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

NOT TO SCALE
DATE July 2019
PROJECT No. 11349
SHEET No. CD-6
DRAWING 28 OF 66

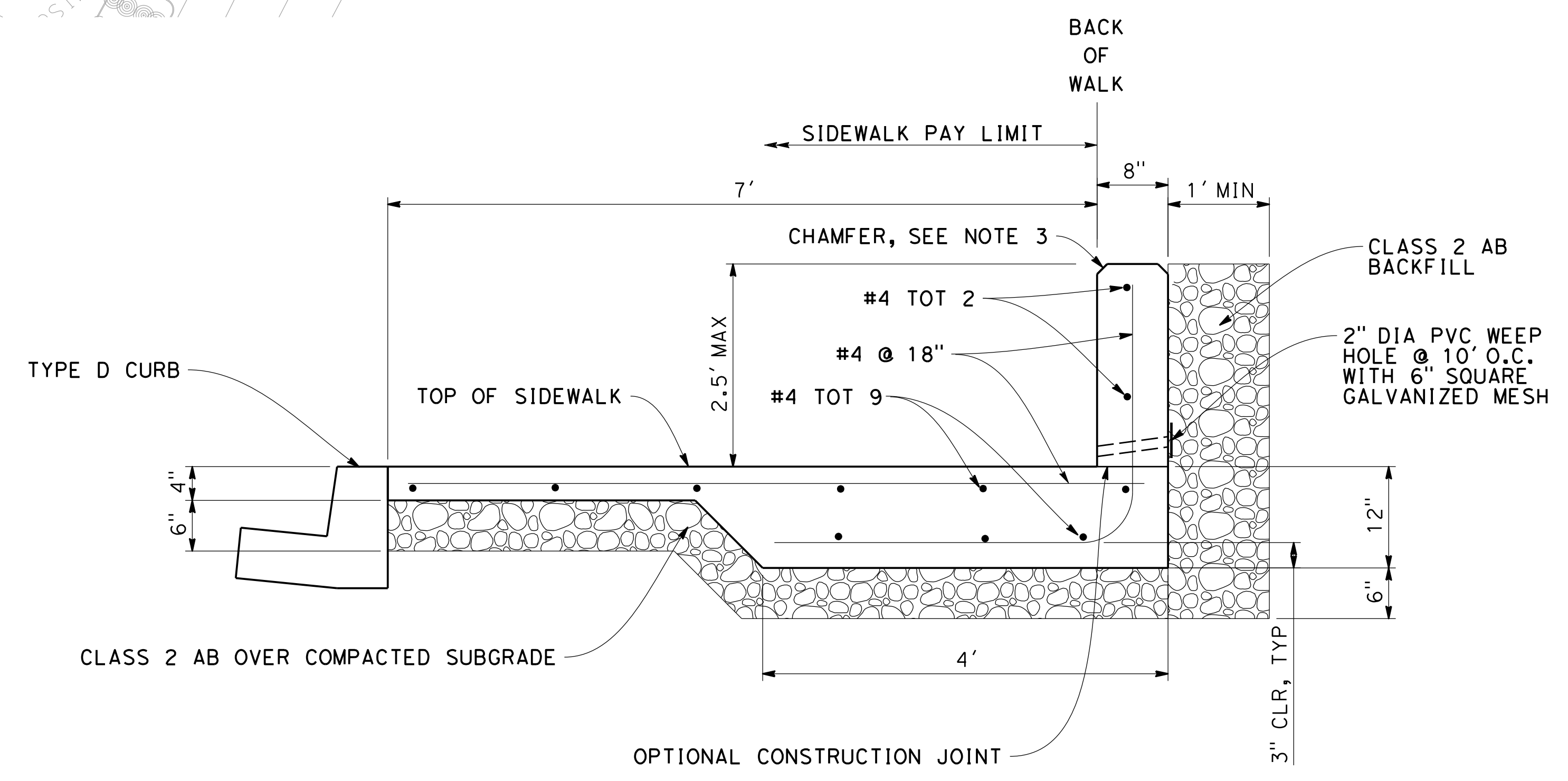
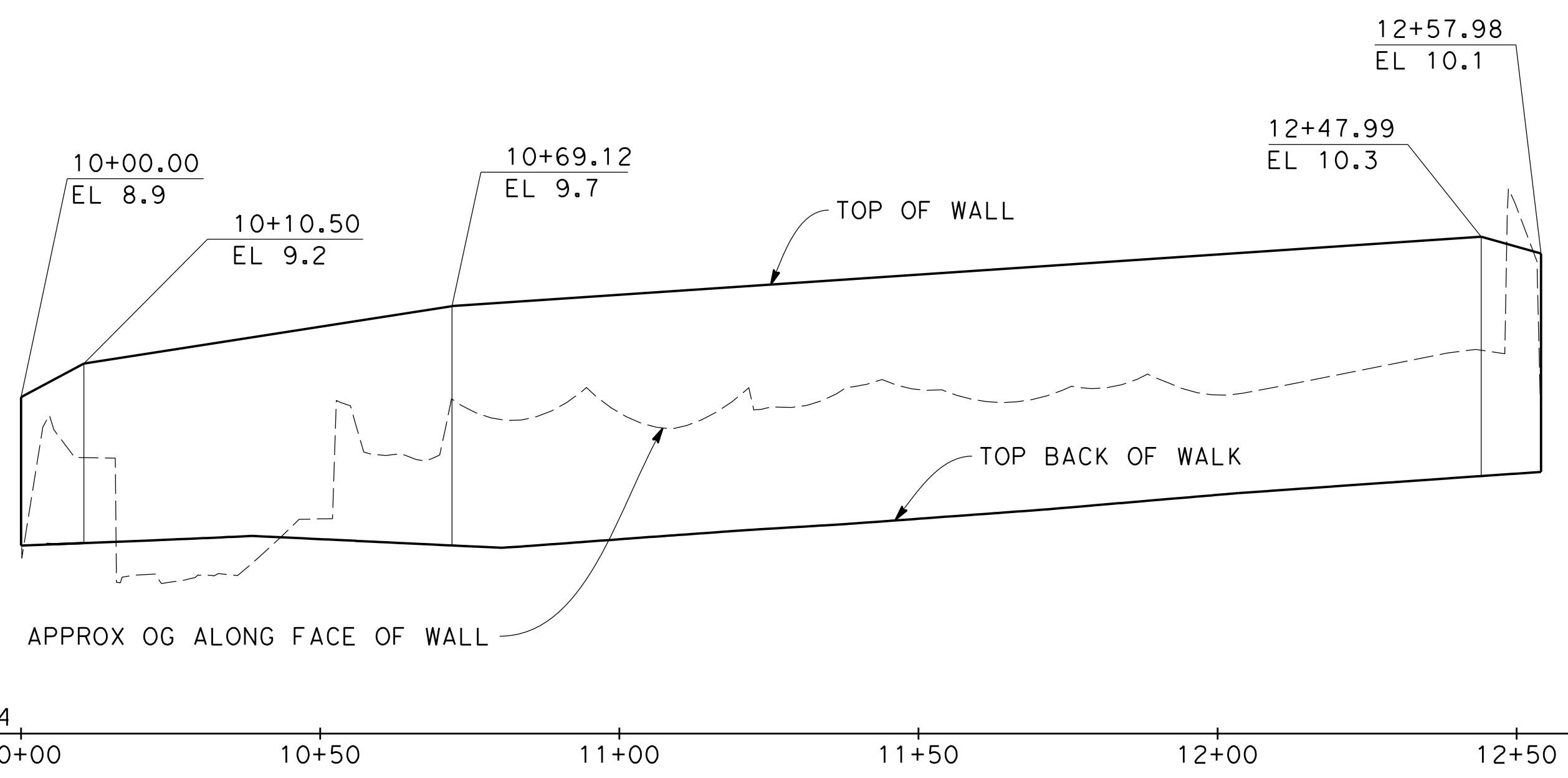
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NOTES:

1. COST OF CONCRETE, WEEP HOLES, GALVANIZED MESH, REBAR AND SKATE CLIPS ARE INCLUDED IN BID ITEM "RETAINING WALL".
2. ALL SIDEWALK FROM BACK OF CURB TO FACE OF RETAINING WALL SHALL BE MEASURED AND PAID FOR IN THE BID ITEM "4-INCH THICK PCC SIDEWALK" DESPITE THE VARYING THICKNESS FROM 4 TO 12 INCHES
3. CONTRACTOR SHALL FURNISH AND INSTALL SKATE CLIPS WITH 90° ELBOW @ 6' ON CENTER. COST INCLUDED IN RETAINING WALL ITEM. SUBMIT TWO SAMPLES FOR REVIEW.

"E" 50+19.64, 30.87' RT
 10+00.00 RWLOL4
 BEGIN RETAINING WALL NO. 4



**RETAINING WALL NO. 4
 DEVELOPED ELEVATION**
 LOOKING AT BACK OF WALK

RETAINING WALL NO. 4
 SECTION LOOKING UP STATION






DESIGNED	NO. REVISION	BY	DATE
P. DONOVAN			
DRAWN			
P. DONOVAN			
CHECKED			
G. MANOREK			
APPROVED			
PROJECT NAME		DATE	
FRANCISCO BLVD EAST		CALIFORNIA	
FROM VIVIAN ST TO GRAND AVE BRIDGE			
DRAWING NAME		DATE	
CONSTRUCTION DETAILS			
SAN RAFAEL COUNTY OF MARIN			

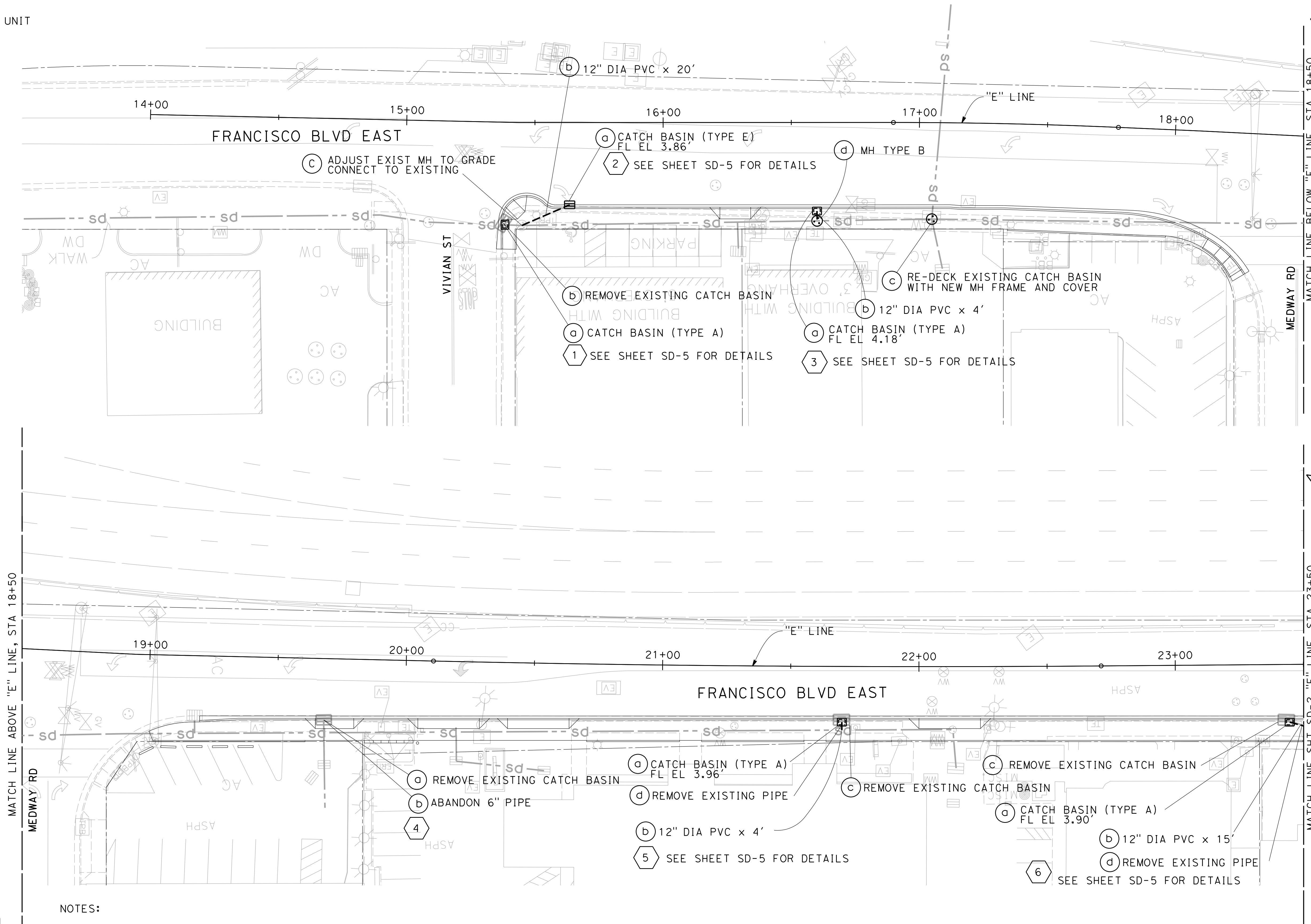
JACOBS
 2485 NATOMAS PARK DR. STE 600
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CITY OF SAN RAFAEL
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NOT TO SCALE
 DATE July 2019
 PROJECT NO. 11349
 SHEET NO. CD-7
 DRAWING 29 OF 66

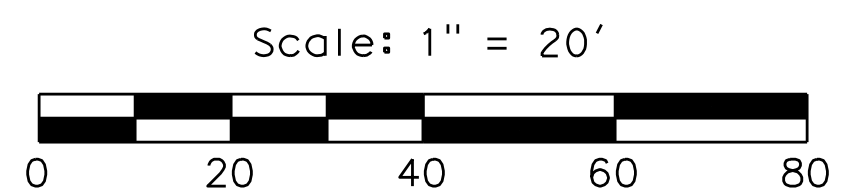
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- LEGEND:
-  DRAINAGE SYSTEM
 -  DRAINAGE UNIT
 -  PVC PIPE



NOTES:

1. ELEVATION SHOWN IS AT THE TOP OF GRATE AT CURB FLOW LINE.
2. EXIST DRAINAGE SHOWN IS APPROXIMATE, CONTRACTOR TO VERIFY FIELD LOCATION BEFORE DOING ANY WORK.
3. FOR UTILITY WORK, SEE UTILITY PLAN SHEETS.
4. SEE UTILITY PLANS FOR ADDITIONAL ADJUSTMENT OF EXISTING MH TO GRADE NOT SHOWN ON DRAINAGE PLANS.



DESIGNED	NO.	REVISION	BY	DATE
P. DONOVAN				
P. DONOVAN				
G. MANOREK				

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
DRAINAGE PLANS
"E" 14+00 TO 23+50
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

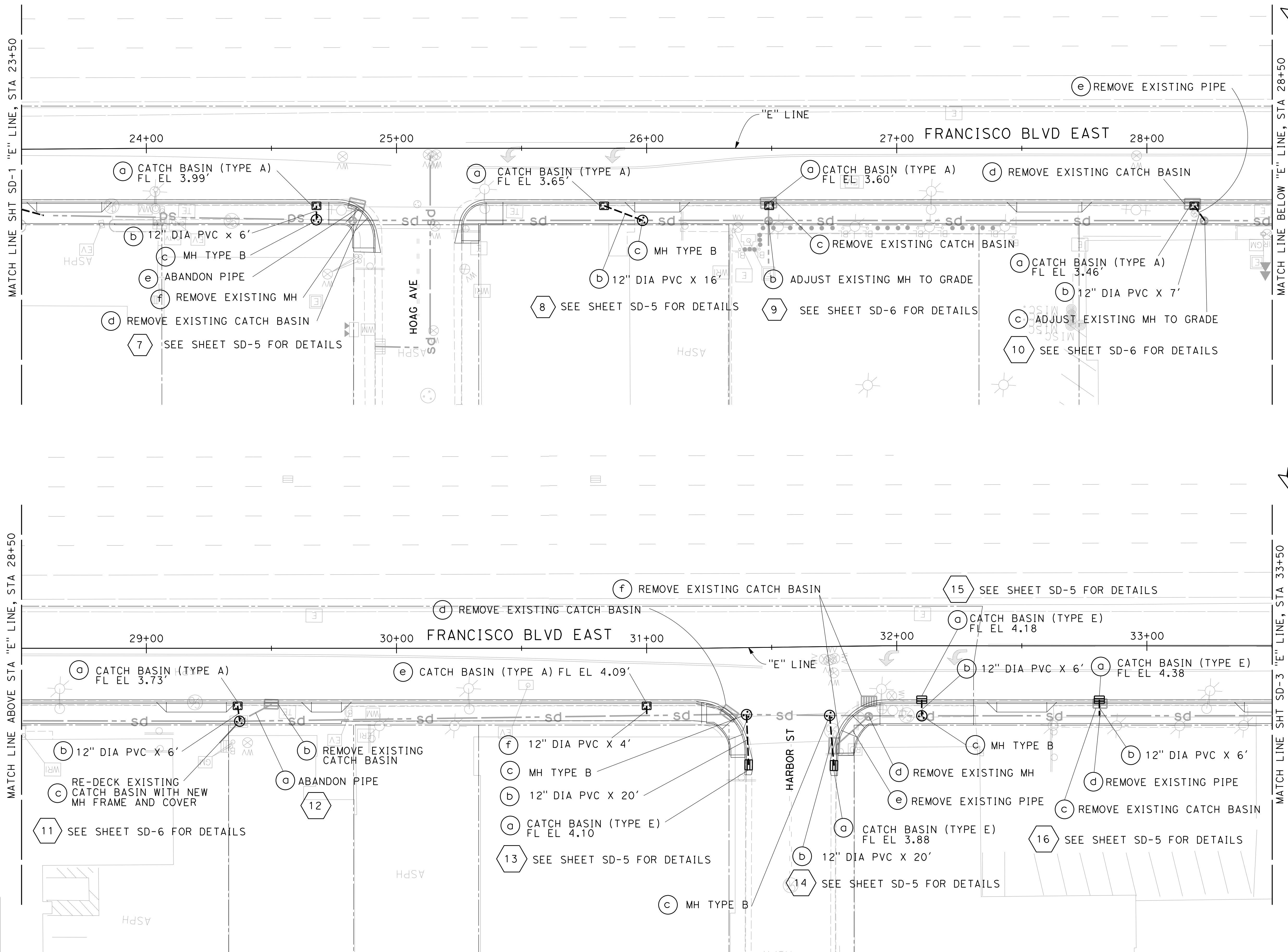
JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
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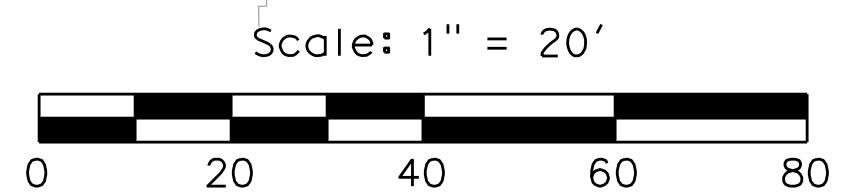
SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. SD-1
DRAWING 30 OF 66

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NOTE:
 1. SEE SHEET SD-1 FOR NOTES AND LEGEND.



DESIGNED	NO. REVISION	BY	DATE
P. DONOVAN			
DRAWN			
P. DONOVAN			
CHECKED			
G. MANOREK			
APPROVED			

PROJECT NAME
 FRANCISCO BLVD EAST
 FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
 DRAINAGE PLANS
 "E" 23+50 TO 43+50

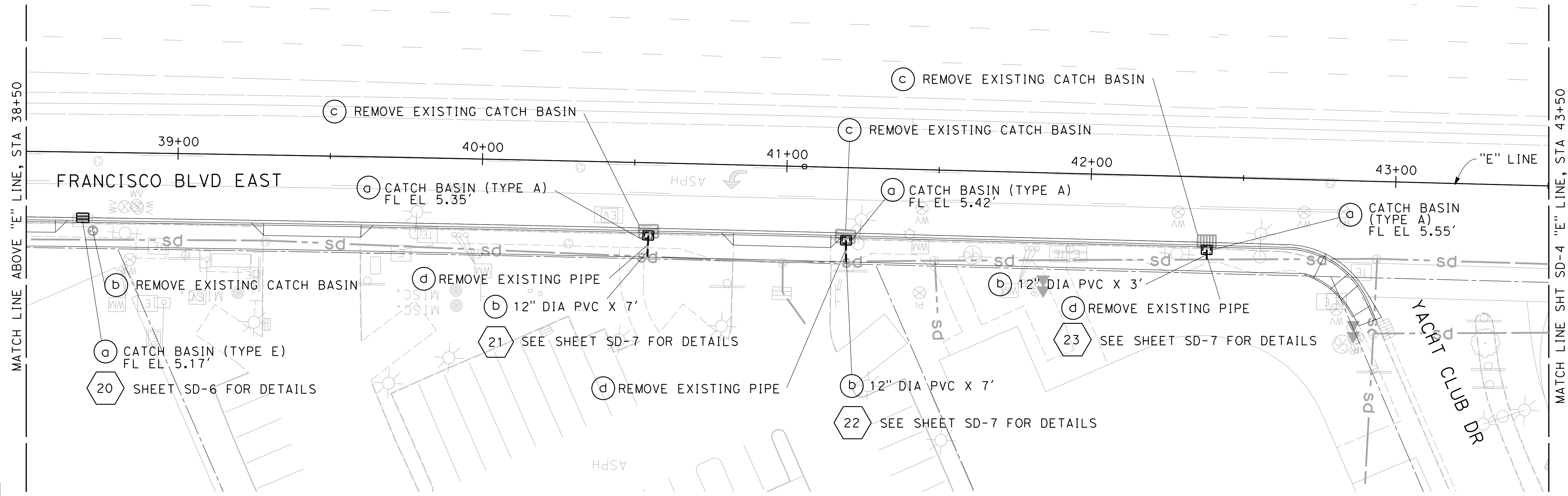
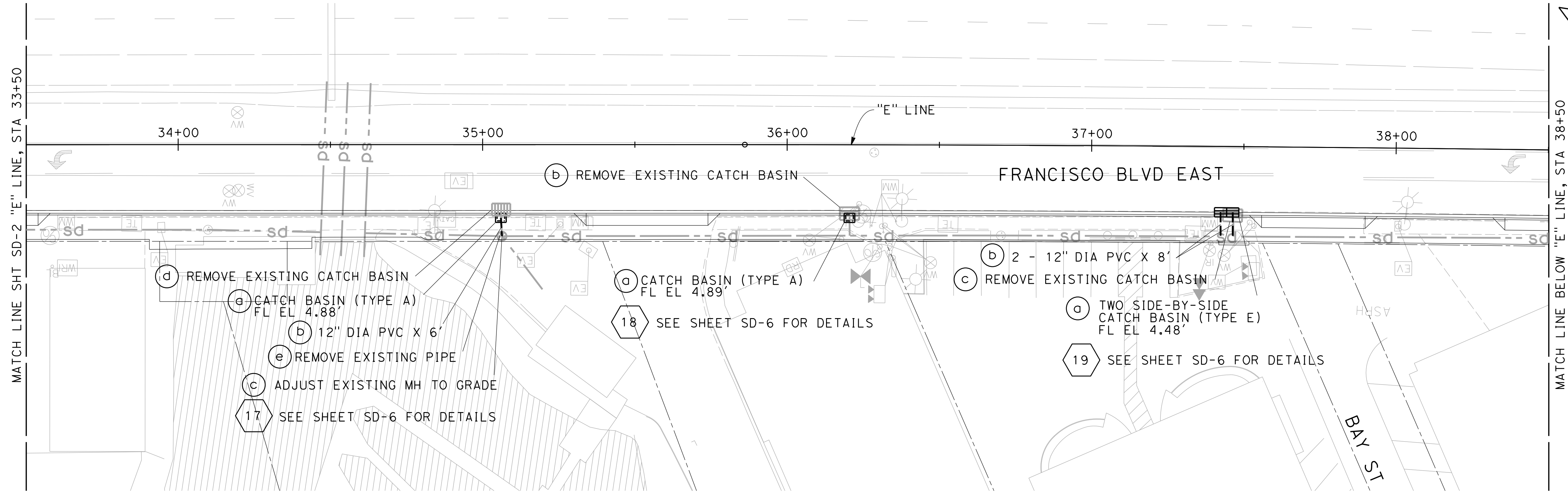
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

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 PHONE (916) 920-0300

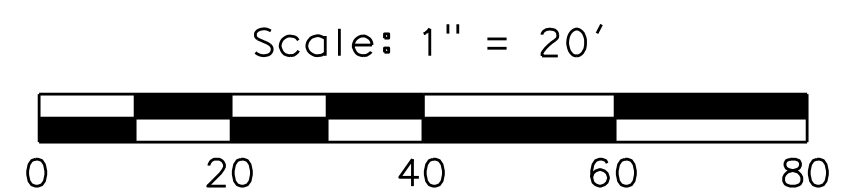
CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
 DATE July 2019
 PROJECT NO. 11349
 SHEET NO. SD-2
 DRAWING 31 OF 66

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NOTE:
1. SEE SHEET SD-1 FOR NOTES AND LEGEND.



DESIGNED	NO. REVISION	BY	DATE
P. DONOVAN			
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P. DONOVAN			
CHECKED			
G. MANOREK			
APPROVED			

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
DRAINAGE PLANS
"E" 33+50 TO 43+50

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

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2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

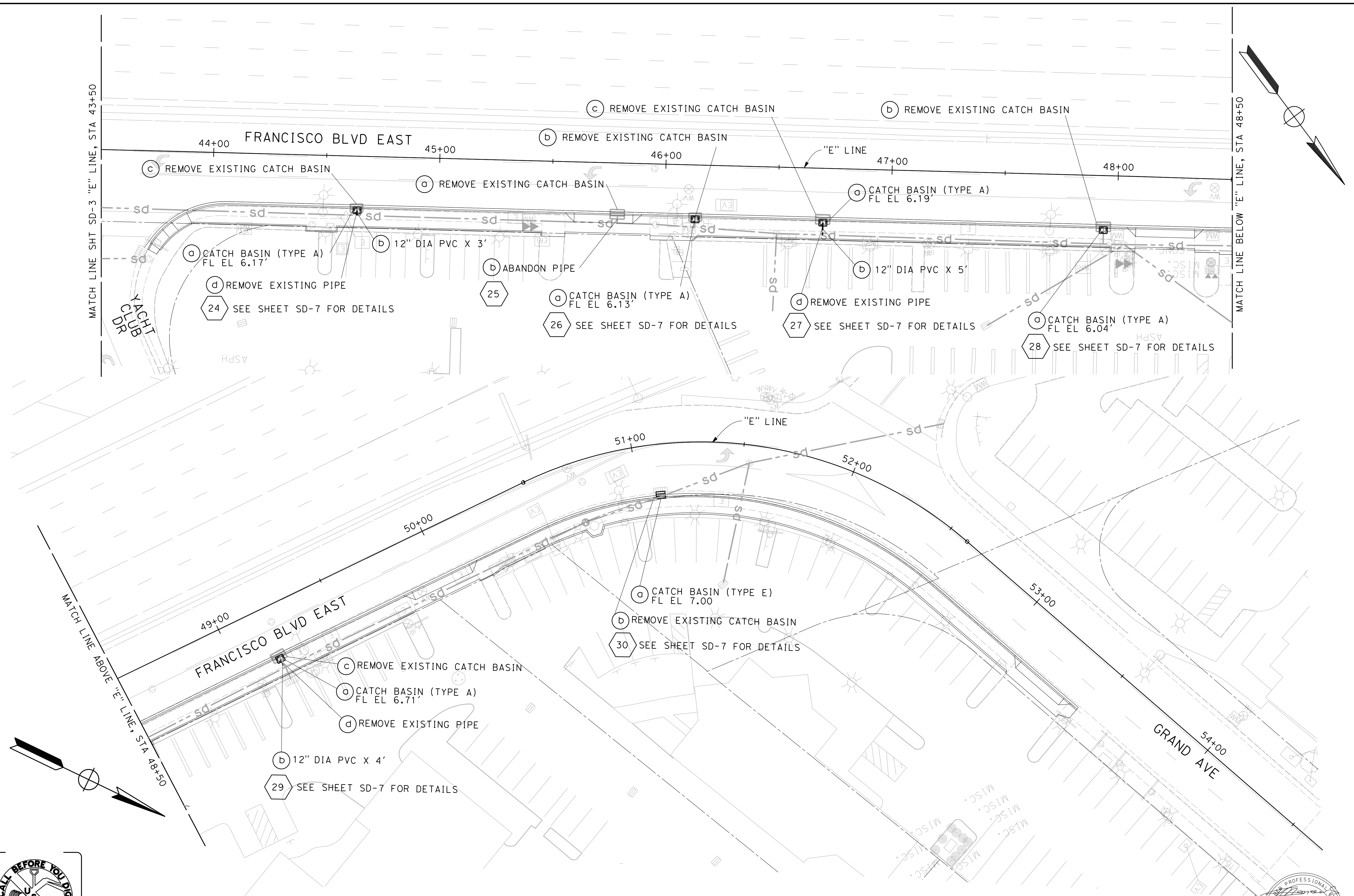
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DATE July 2019
PROJECT NO. 11349
SHEET NO. SD-3
DRAWING 32 OF 66

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CALL TWO WORKING DAYS BEFORE YOU DIG

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NOTE:
1. SEE SHEET SD-1 FOR NOTES AND LEGEND.



DESIGNED	NO. REVISION	BY	DATE
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DRAWN			
P. DONOVAN			
CHECKED			
G. MANOREK			
APPROVED			

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
DRAINAGE PLANS
"E" 43+50 TO 54+55
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

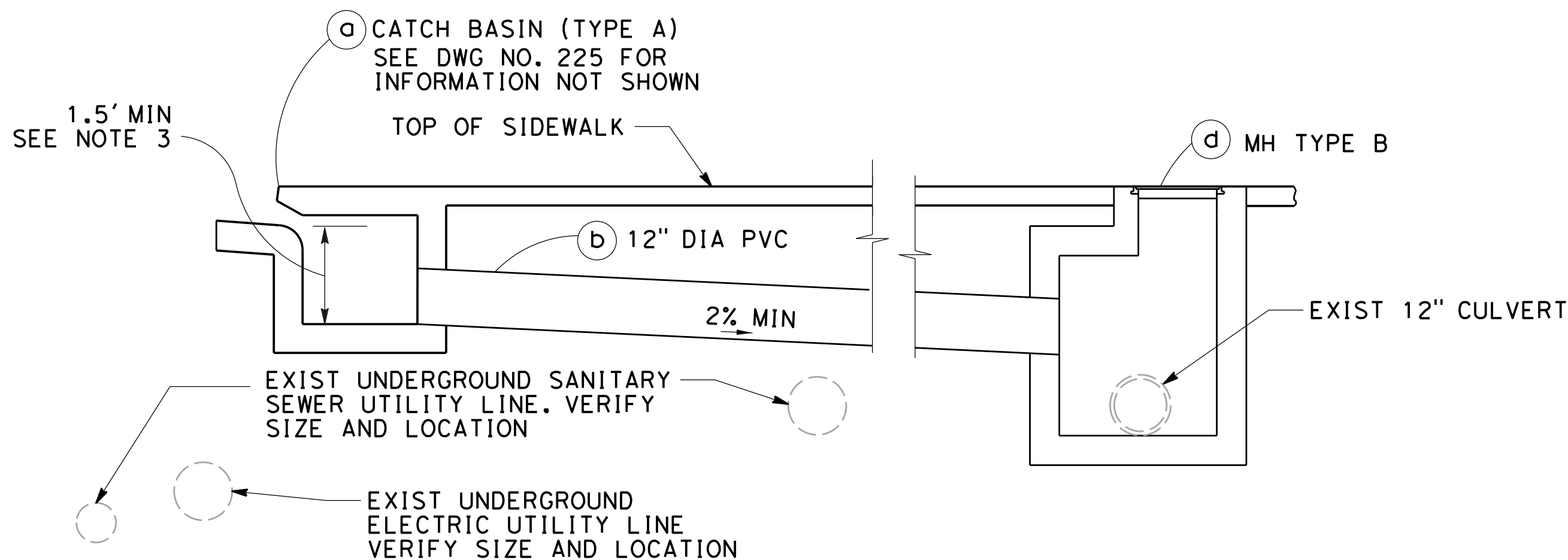
JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

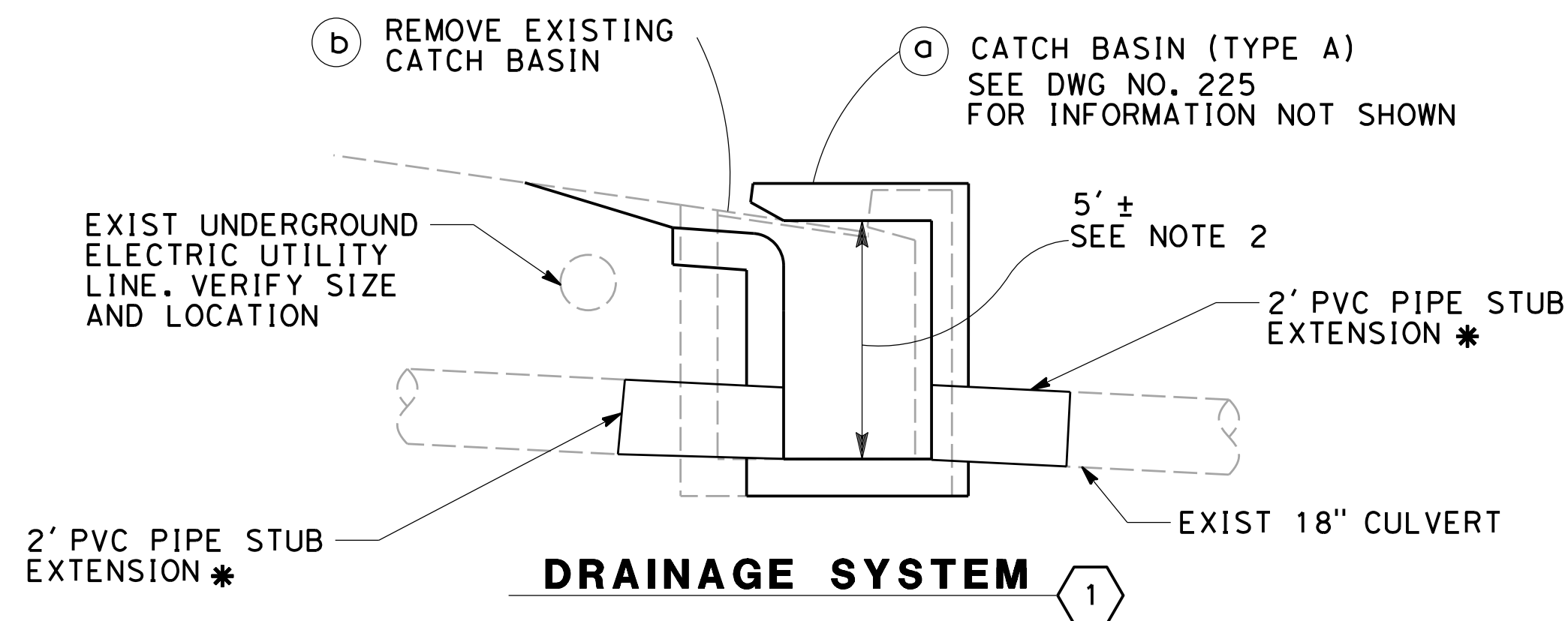
SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. SD-4
DRAWING 33 OF 66

NOTES:

1. REFER TO MARIN COUNTY SANITARY DISTRICTS MAIN SEWER PROTECTION BELOW UTILITY CROSSING DETAILS FOR INFORMATION ON ALL PVC PIPE INSTALLATIONS.
2. HEIGHT DIMENSION OF CATCH BASIN SHOWN IS APPROXIMATE. DEPTH OF BASIN MAY NEED TO BE ADJUSTED TO AVOID EXISTING UTILITIES AND PROVIDE A 12" MINIMUM CLEARANCE. CONTRACTOR TO VERIFY ALL DIMENSIONS.
3. HEIGHT DIMENSION OF CATCH BASIN SHOWN IS MINIMUM. DEPTH OF BASIN MAY NEED TO BE ADJUSTED TO AVOID EXISTING UTILITIES AND PROVIDE A 12" MINIMUM CLEARANCE. CONTRACTOR TO VERIFY ALL DIMENSIONS. LEAN CONCRETE TO BE USED FOR CLEARANCE LESS THAN 12" TO UTILITIES AND TO BOTTOM OF SIDEWALK STRUCTURAL SECTION.

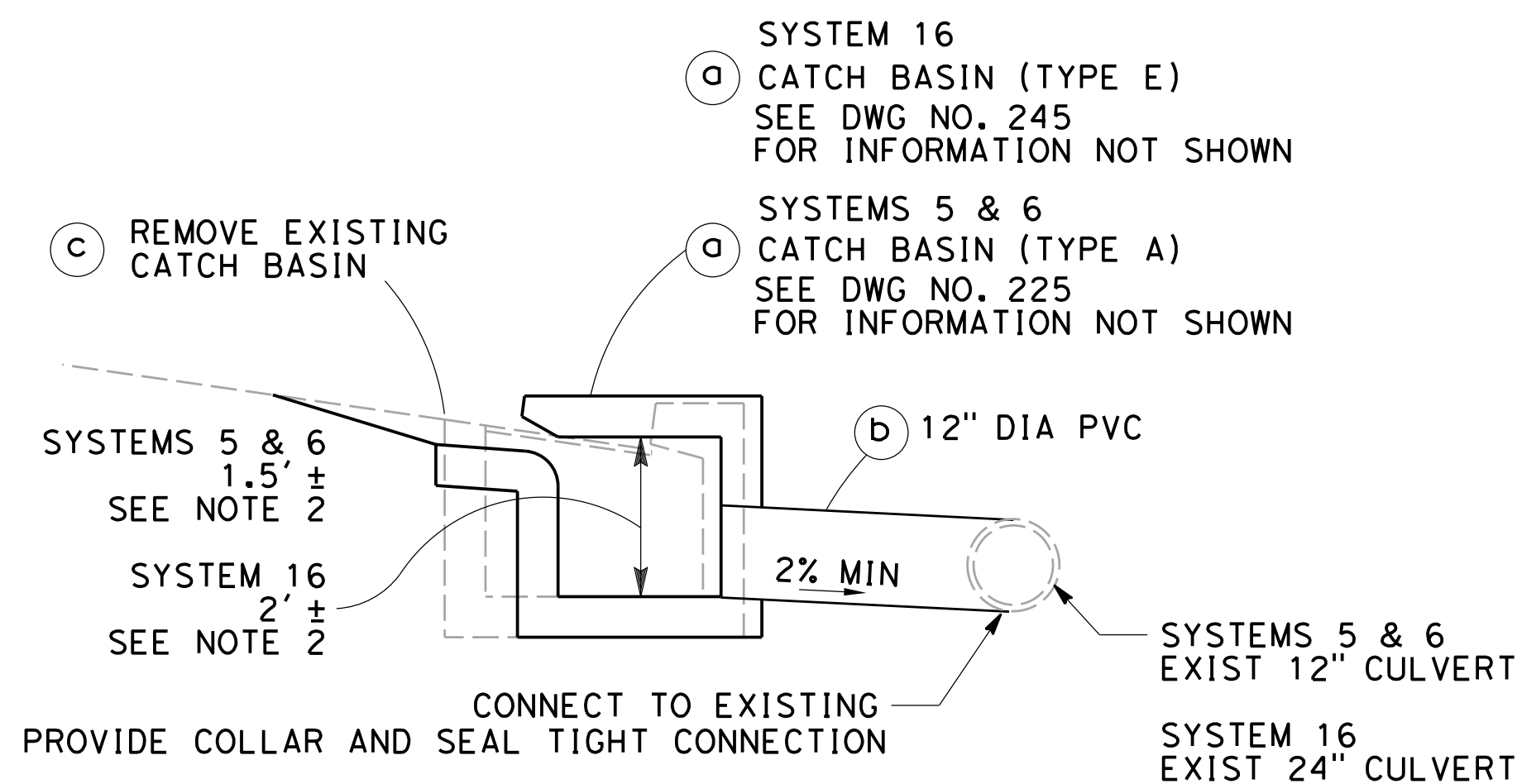


DRAINAGE SYSTEM 3

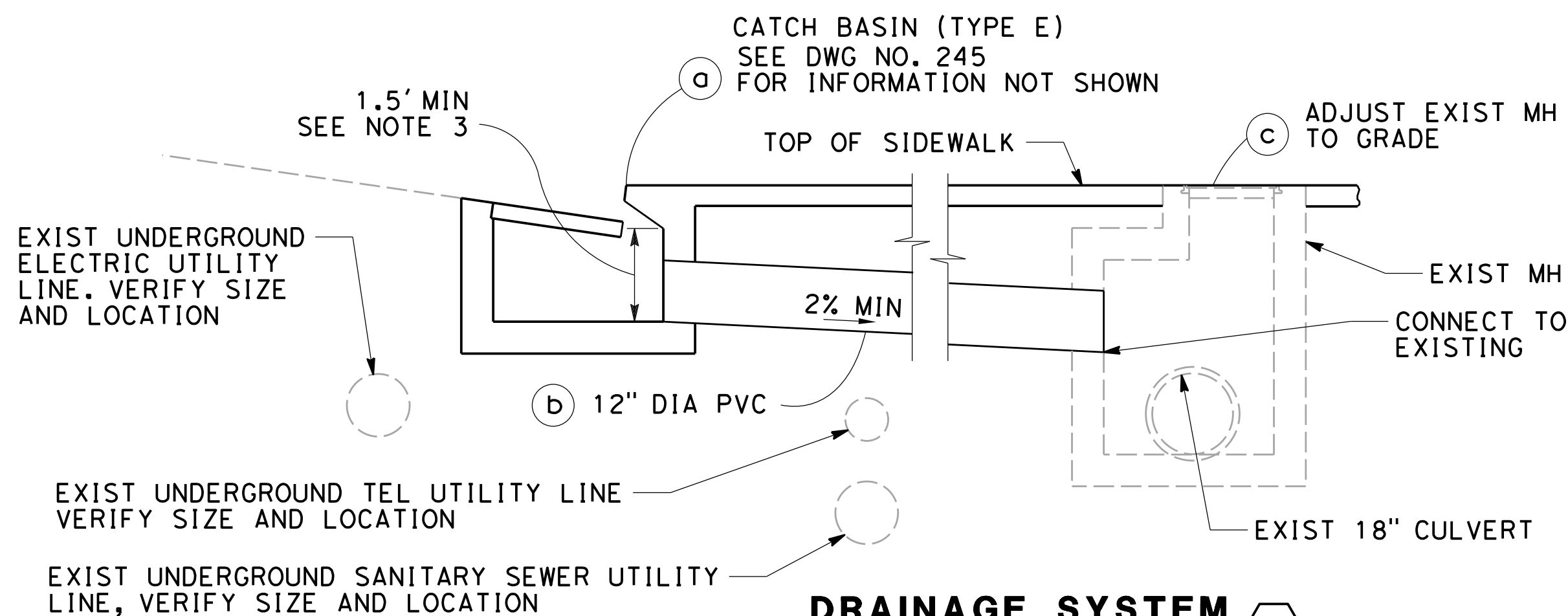


DRAINAGE SYSTEM 1

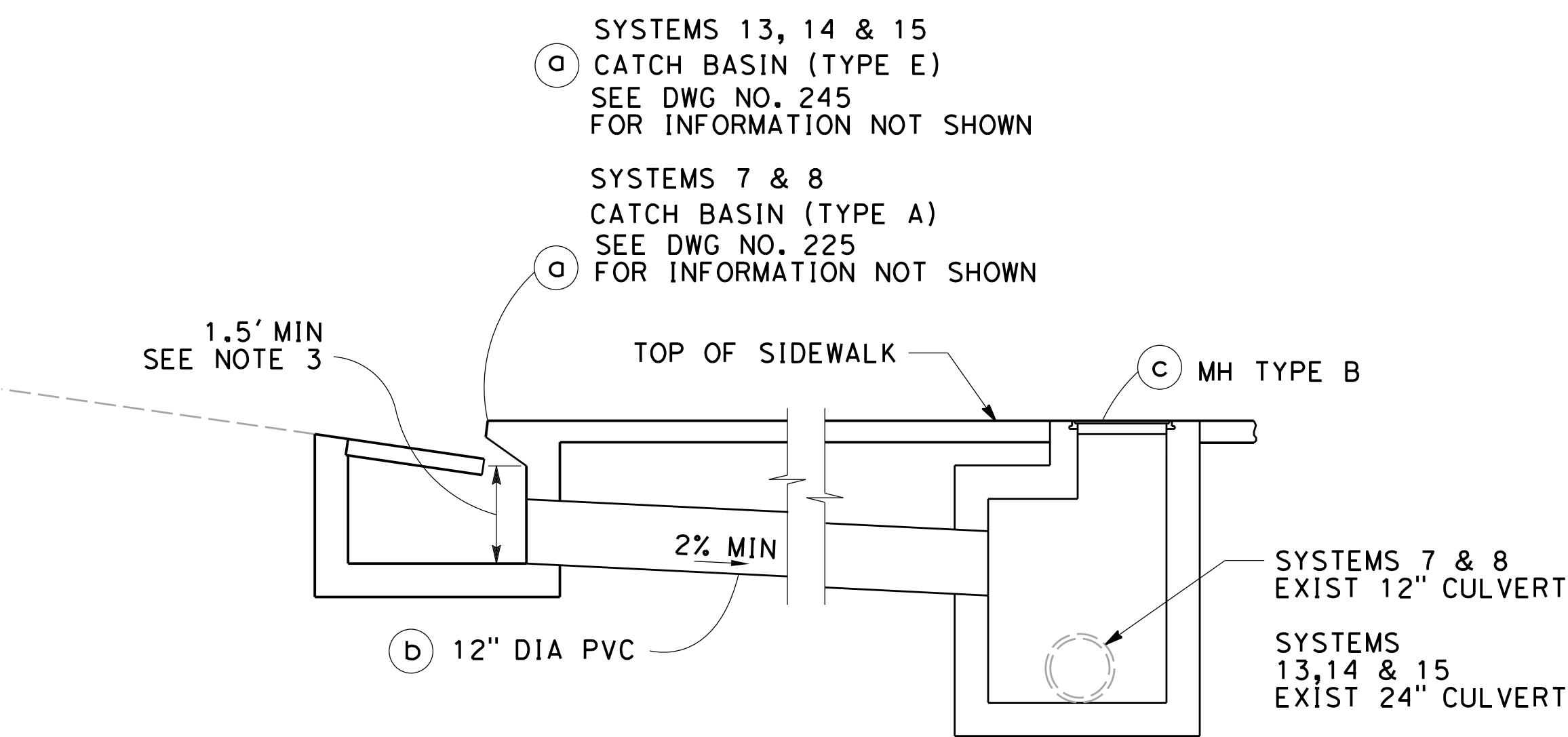
* CONTRACTOR TO SUBMIT JOINT / COUPLINGS DETAILS TO THE ENGINEER FOR APPROVAL



DRAINAGE SYSTEMS 5 6 16



DRAINAGE SYSTEM 2



DRAINAGE SYSTEMS 7 8 13 14 15

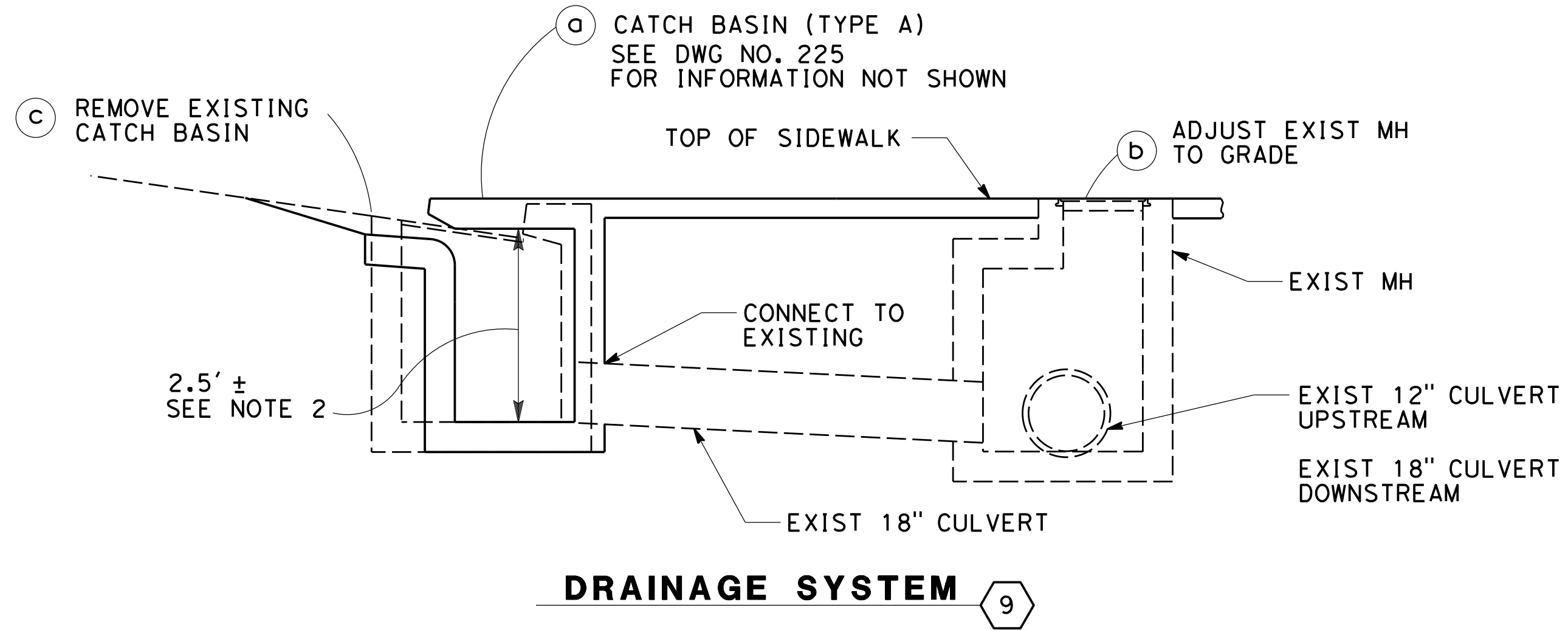


DESIGNED BY	P. DONOVAN	DATE	
DRAWN BY	P. DONOVAN	DATE	
CHECKED BY	G. MANOREK	DATE	
APPROVED BY		DATE	
PROJECT NAME	FRANCISCO BLVD EAST		
	FROM VIVIAN ST TO GRAND AVE BRIDGE		
DRAWING NAME	DRAINAGE DETAILS		
	SAN RAFAEL COUNTY OF MARIN CALIFORNIA		
JACOBS			
2485 NATOMAS PARK DR, STE 600 SACRAMENTO, CA 95833 PHONE (916) 920-0300			
CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS			
NOT TO SCALE			
DATE July 2019			
PROJECT NO. 11349			
SHEET NO. SD-5			
DRAWING 34 OF 66			

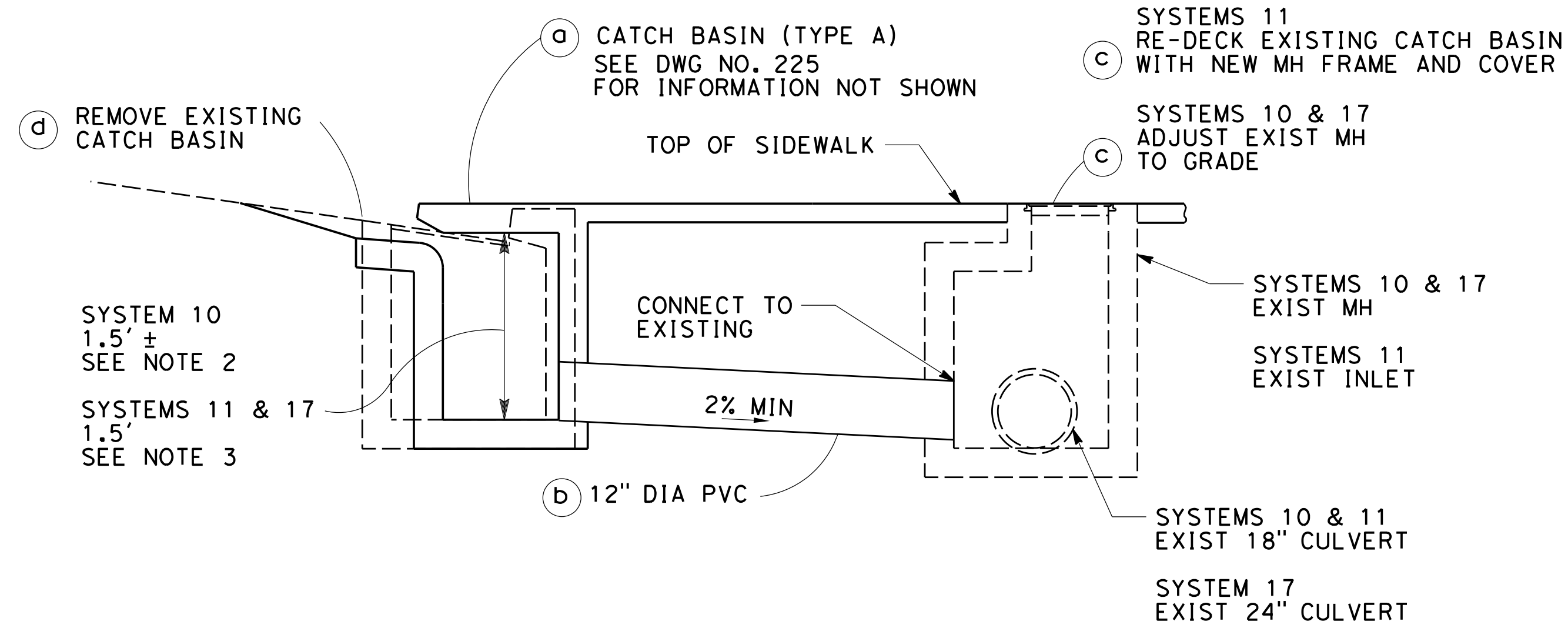
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NOTES:

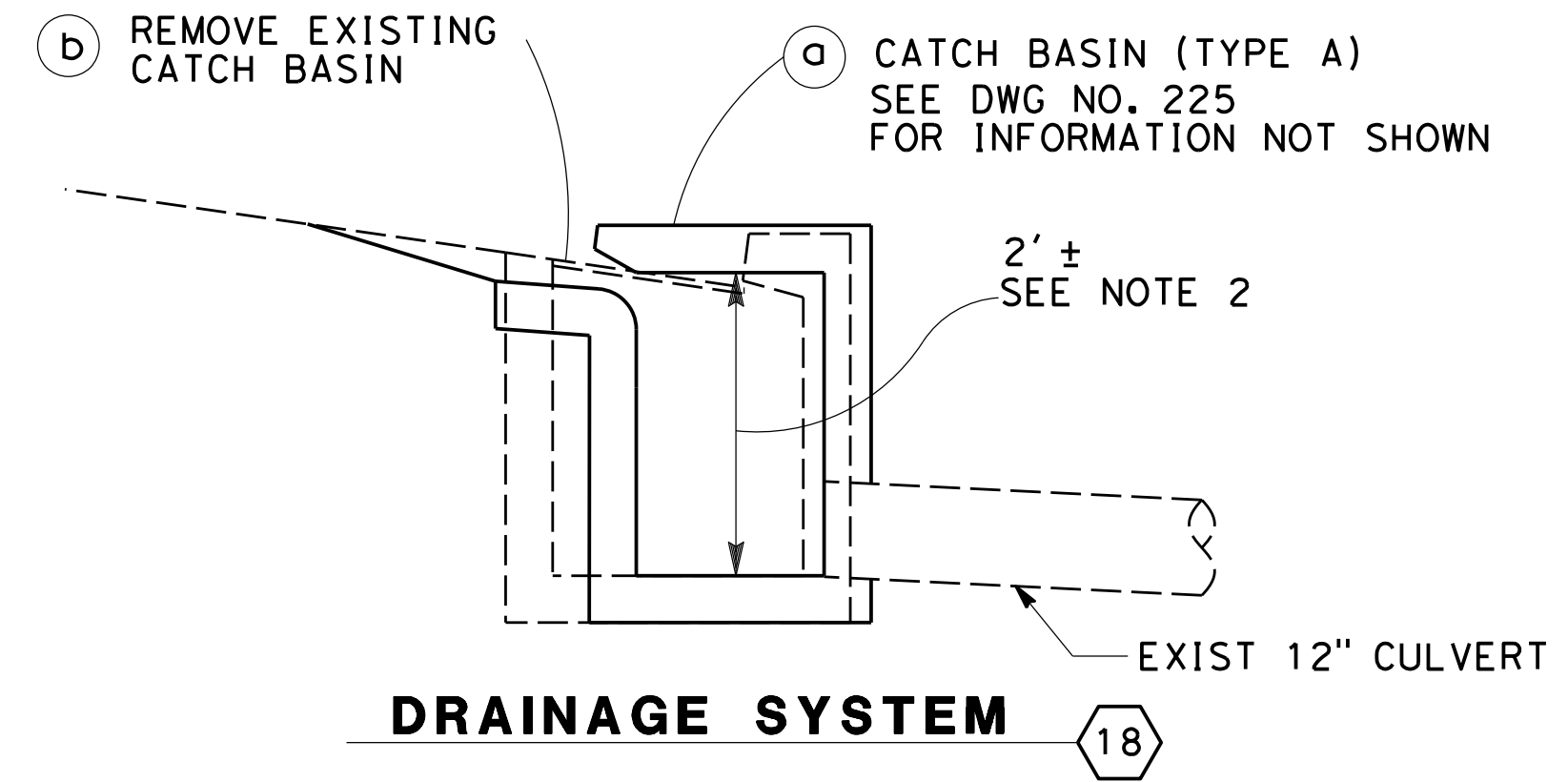
1. REFER TO MARIN COUNTY SANITARY DISTRICTS MAIN SEWER PROTECTION BELOW UTILITY CROSSING DETAILS FOR INFORMATION ON ALL PVC PIPE INSTALLATIONS.
2. HEIGHT DIMENSION OF CATCH BASIN SHOWN IS APPROXIMATE. DEPTH OF BASIN MAY NEED TO BE ADJUSTED TO AVOID EXISTING UTILITIES AND PROVIDE A 12" MINIMUM CLEARANCE. CONTRACTOR TO VERIFY ALL DIMENSIONS.
3. HEIGHT DIMENSION OF CATCH BASIN SHOWN IS MINIMUM. DEPTH OF BASIN MAY NEED TO BE ADJUSTED TO AVOID EXISTING UTILITIES AND PROVIDE A 12" MINIMUM CLEARANCE. CONTRACTOR TO VERIFY ALL DIMENSIONS.



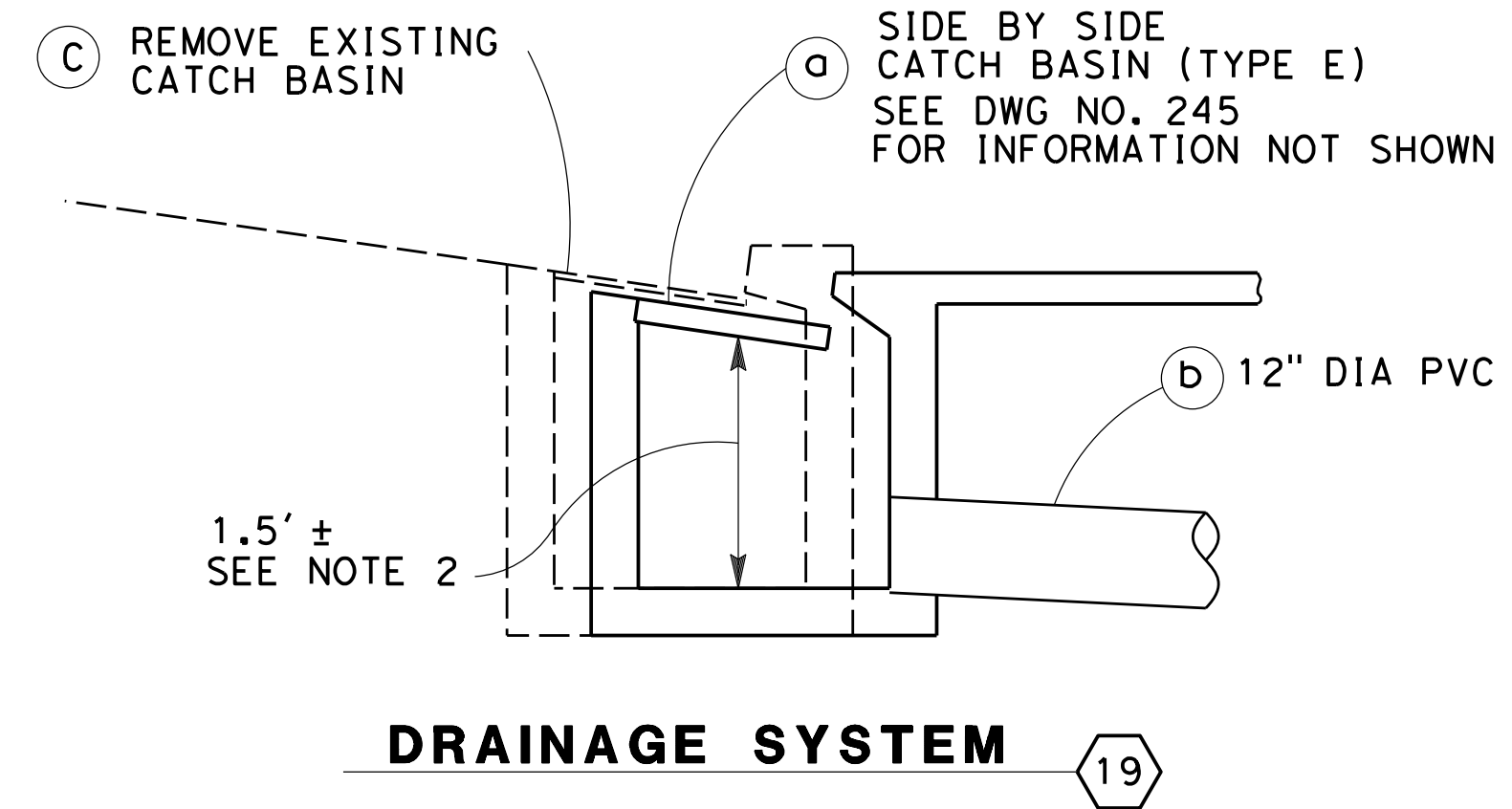
DRAINAGE SYSTEM 9



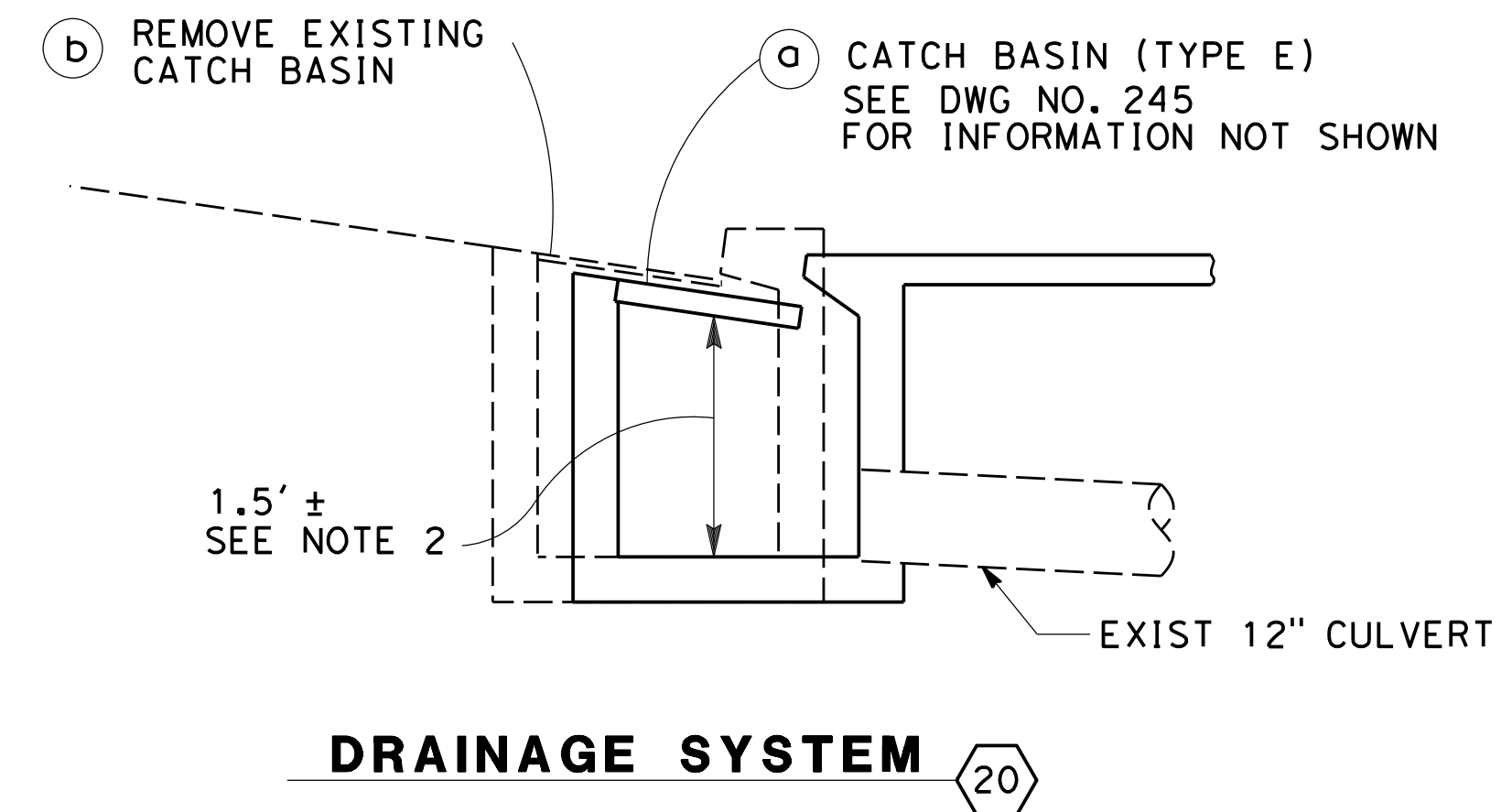
DRAINAGE SYSTEMS 10 11 17



DRAINAGE SYSTEM 18



DRAINAGE SYSTEM 19



DRAINAGE SYSTEM 20



CALL TWO WORKING DAYS BEFORE YOU DIG



DESIGNED BY P. DONOVAN	NO. REVISION BY DATE
DRAWN BY P. DONOVAN	
CHECKED BY G. MANOREK	
APPROVED BY	
DATE	

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
DRAINAGE DETAILS

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

JACOBS
2485 NATOMAS PARK DR. STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

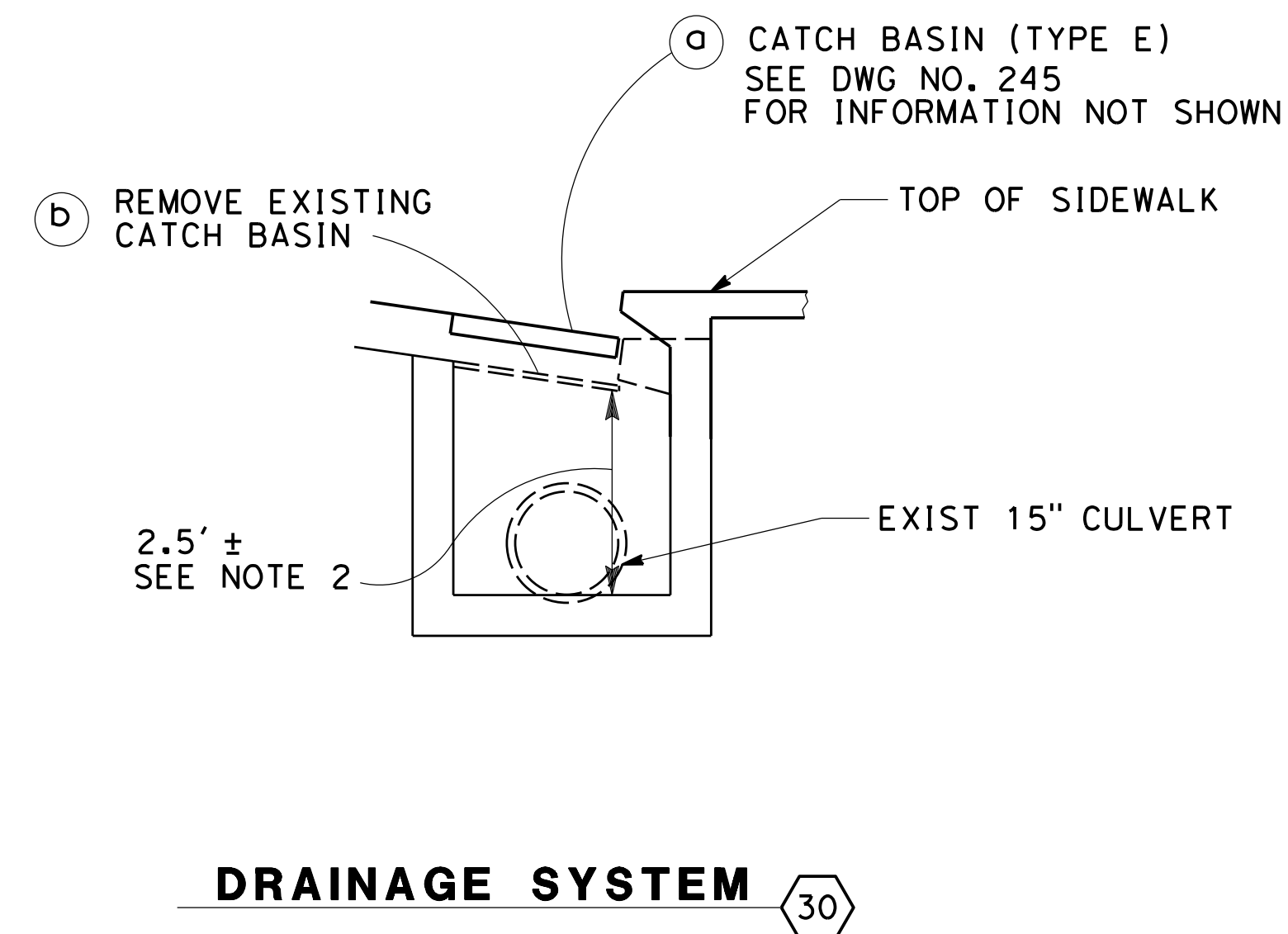
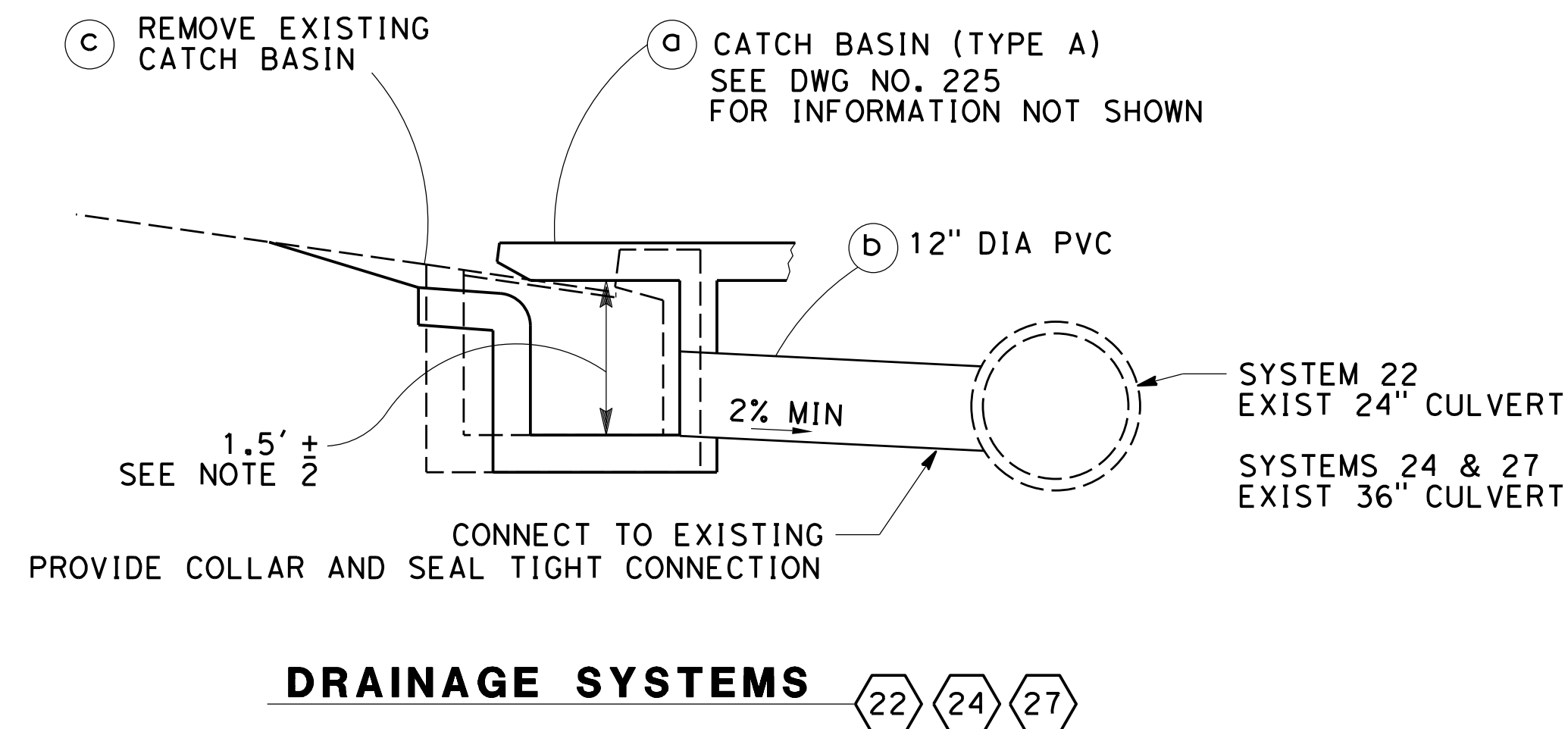
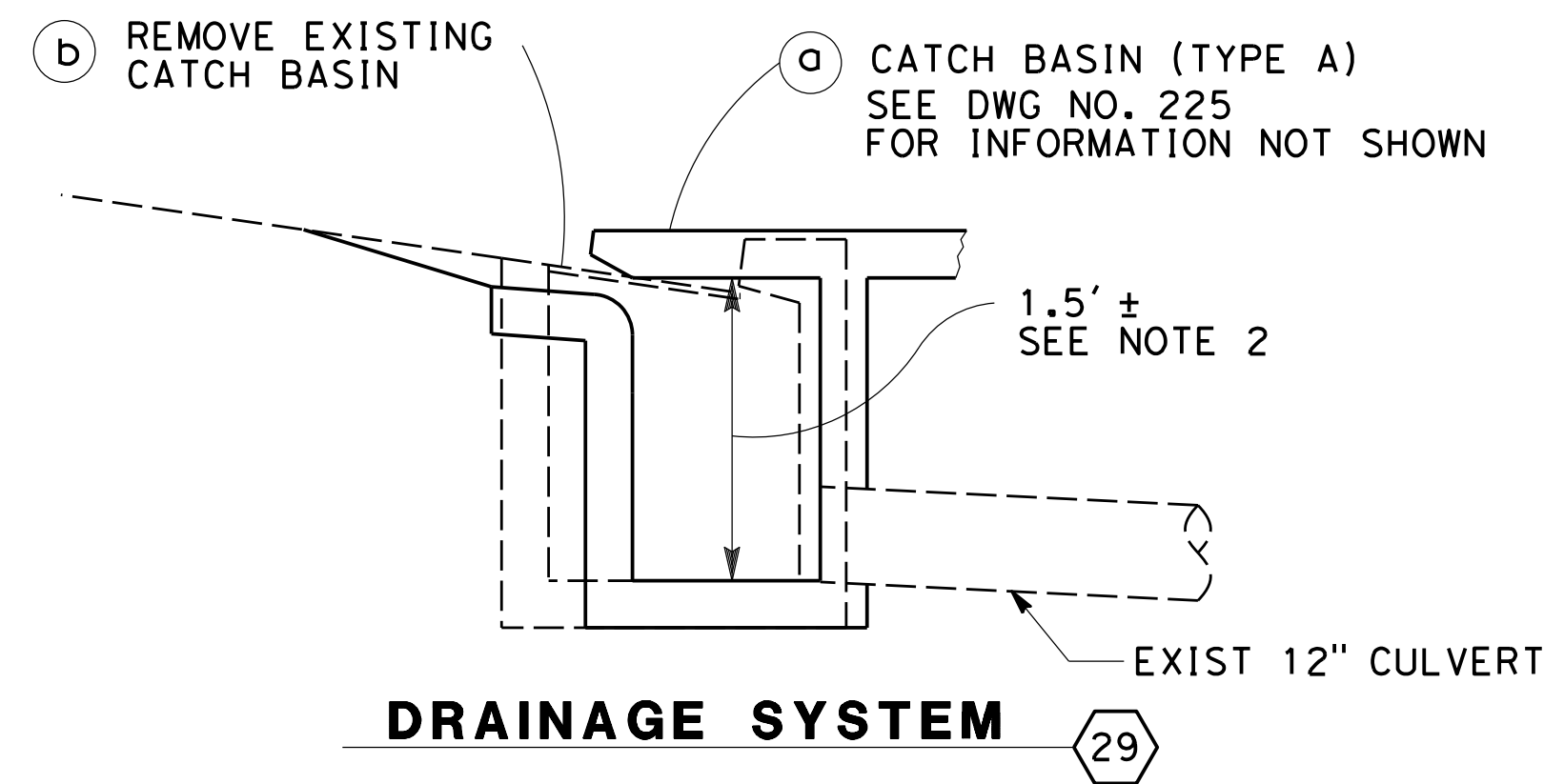
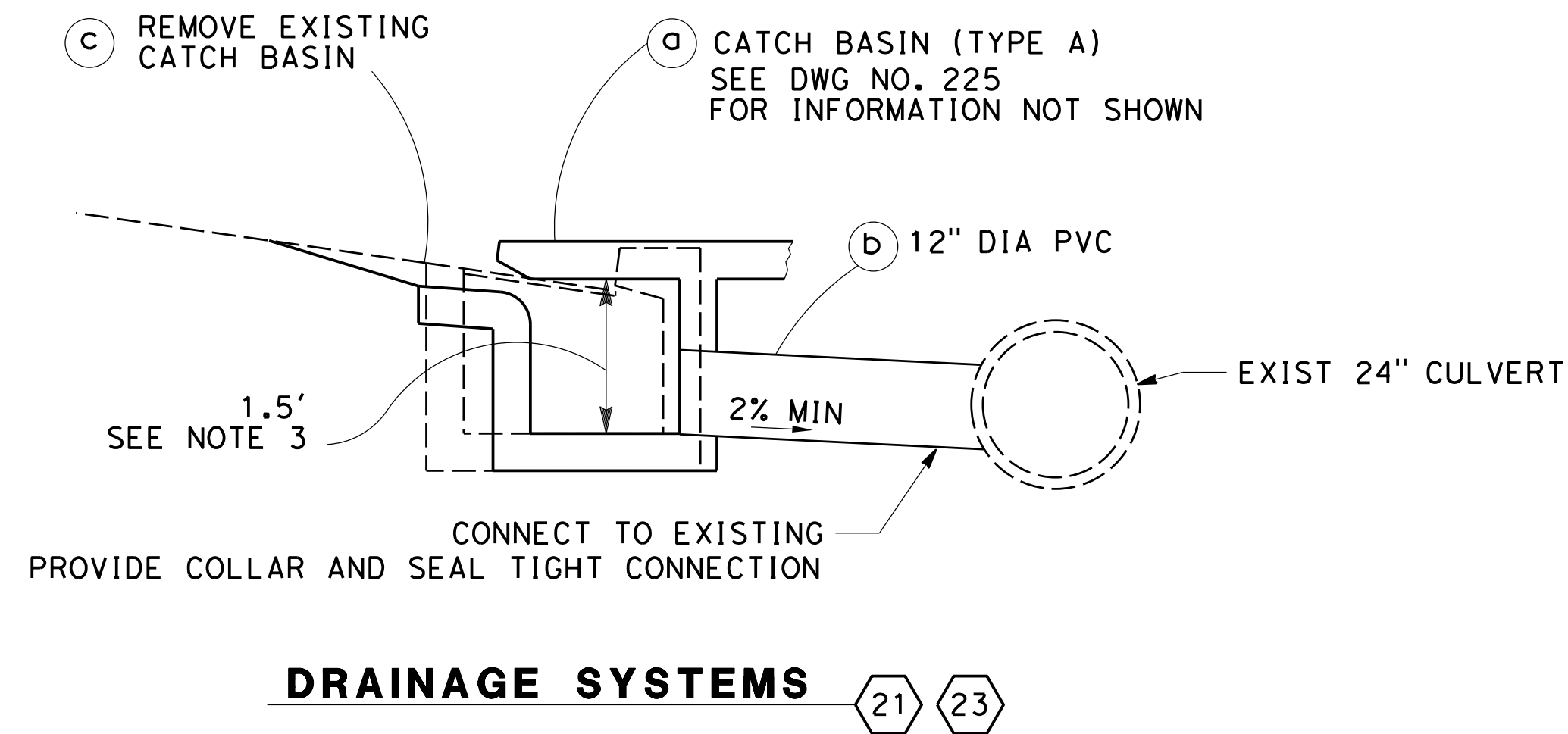
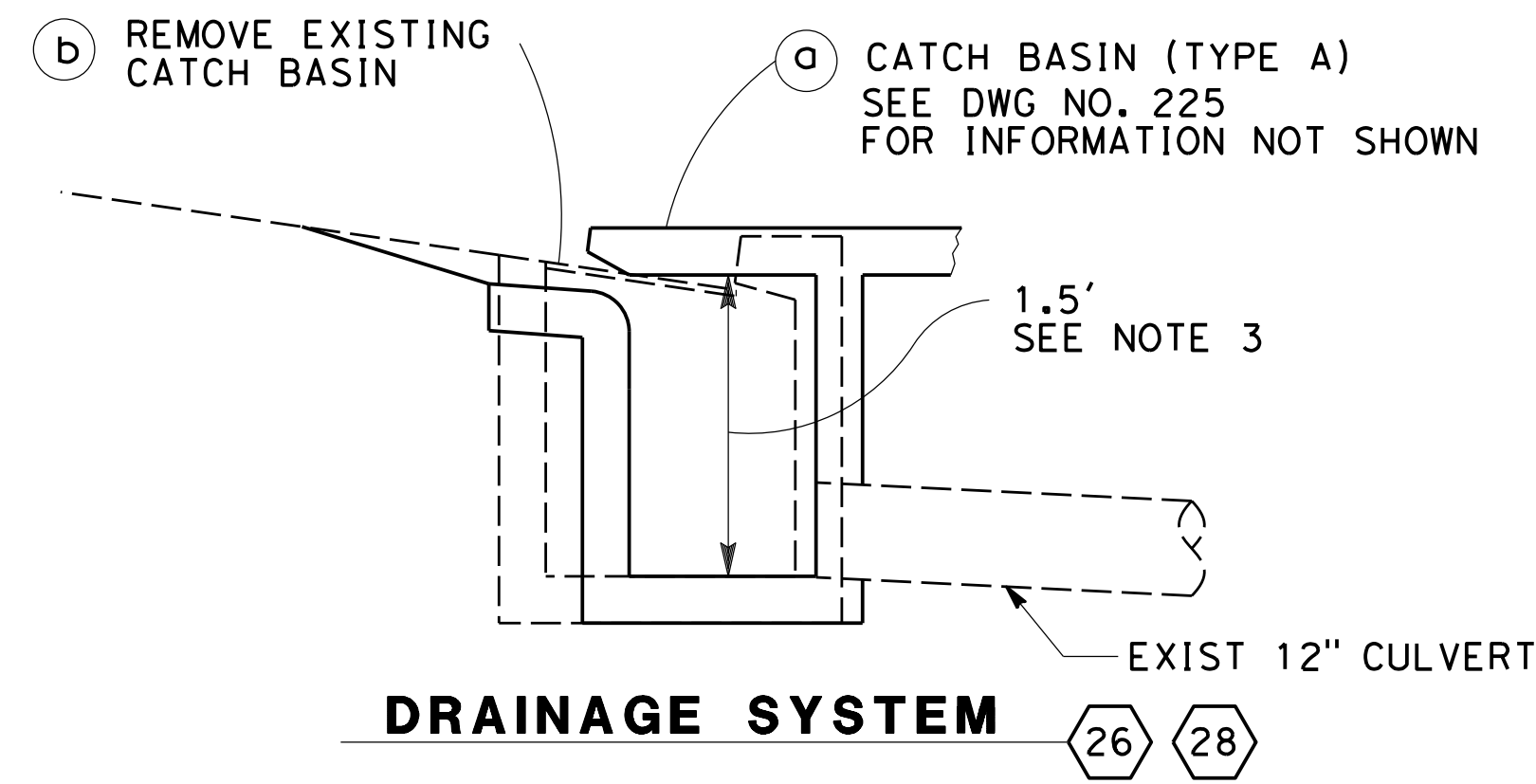
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

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DATE July 2019
PROJECT NO. 11349
SHEET NO. SD-6
DRAWING 35 OF 66

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NOTES:

1. REFER TO MARIN COUNTY SANITARY DISTRICTS MAIN SEWER PROTECTION BELOW UTILITY CROSSING DETAILS FOR INFORMATION ON ALL PVC PIPE INSTALLATIONS.
2. HEIGHT DIMENSION OF CATCH BASIN SHOWN IS APPROXIMATE. DEPTH OF BASIN MAY NEED TO BE ADJUSTED TO AVOID EXISTING UTILITIES AND PROVIDE A 12" MINIMUM CLEARANCE. CONTRACTOR TO VERIFY ALL DIMENSIONS.
3. HEIGHT DIMENSION OF CATCH BASIN SHOWN IS MINIMUM. DEPTH OF BASIN MAY NEED TO BE ADJUSTED TO AVOID EXISTING UTILITIES AND PROVIDE A 12" MINIMUM CLEARANCE. CONTRACTOR TO VERIFY ALL DIMENSIONS.



DESIGNED BY	NO. REVISION	BY	DATE
P. DONOVAN			
DRAWN BY			
P. DONOVAN			
CHECKED BY			
G. MANOREK			
APPROVED BY			
PROJECT NAME		DATE	
FRANCISCO BLVD EAST		SAN RAFAEL COUNTY OF MARIN CALIFORNIA	
FROM VIVIAN ST TO GRAND AVE BRIDGE			
DRAWING NAME			
DRAINAGE DETAILS			

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CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

NOT TO SCALE
 DATE July 2019
 PROJECT NO. 11349
 SHEET NO. SD-7
 DRAWING 36 OF 66

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DRAINAGE SHEET NO.	DRAINAGE SYSTEM No.		DESCRIPTION										
	DRAINAGE UNIT No.	REMOVE CATCH BASIN	CATCH BASIN (TYPE A)	CATCH BASIN (TYPE E)	MANHOLE TYPE B	REDECK EXIST CB WITH NEW MH FRAME & COVER	REMOVE MANHOLE	ADJUST EXIST MANHOLE TO GRADE	12" PVC	18" PVC	ABANDON PIPE	REMOVE PIPE	
		EA	EA	EA	EA	EA	EA	EA	FT	FT	FT	FT	
SD-1	1	a	1							4			Rt "E" 15+38.10
		b	1										
SD-1	2	a		1									Rt "E" 15+63.50
		b							20				
		c						1					
SD-1	3	a	1										Rt "E" 16+60.00
		b							4				
		c											
		d			1	1							Rt "E" 16+60.00
SD-1	4	a	1										
		b								5			
SD-1	5	a	1										Rt "E" 21+70.00
		b							4				
		c	1									4	
		d											
SD-1	6	a	1										Rt "E" 23+44.50
		b							15				
		c	1										
		d										15	
SD-2	7	a	1										Rt "E" 24+68.00
		b							6				
		c											Rt "E" 24+68.00
		d	1		1								
		e								5			
		f				1							
SD-2	8	a	1										Rt "E" 25+83.00
		b							16				
		c			1								Rt "E" 25+98.00
SD-2	9	a	1										Rt "E" 26+49.00
		b						1					
		c	1										
SD-2	10	a	1										Rt "E" 28+19.00
		b							7				
		c						1					
		d	1										
		e										8	
SHEET TOTAL			7	8	1	3	1	1	3	72	4	10	27

NOTE:
STATION OF CATCH BASIN IS TO
CENTER EDGE OF CATCH BASIN
AT FLOW LINE



DESIGNED P. DONOVAN	NO. REVISION	BY	DATE
DRAWN P. DONOVAN			
CHECKED G. MANOREK			
APPROVED			
PROJECT NAME FRANCISCO BLVD EAST FROM VIVIAN ST TO GRAND AVE BRIDGE			
DRAWING NAME DRAINAGE QUANTITIES			
SAN RAFAEL COUNTY OF MARIN CALIFORNIA			
 2485 NATOMAS PARK DR, STE 600 SACRAMENTO, CA 95833 PHONE (916) 920-0300			
 CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS			
DATE July 2019			
PROJECT NO. 11349			
SHEET NO. SD-8			
DRAWING 37 OF 66			

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DRAINAGE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT No.	DESCRIPTION																			
			REMOVE CATCH BASIN	CATCH BASIN (TYPE A)	CATCH BASIN (TYPE E)	MANHOLE TYPE B	REDECK EXIST CB WITH NEW MH FRAME & COVER	REMOVE MANHOLE	ADJUST EXIST MANHOLE TO GRADE	12" PVC	18" PVC	ABANDON PIPE	REMOVE PIPE									
			EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA		
SD-2	11	a		1																Rt "E" 29+36.50		
		b																				
		c																				
SD-2	12	a	1																			
		b																			14	
SD-2	13	a			1																Rt "E" 31+39.80	
		b																				
		c																				
		d	1																			
		e		1																		
		f																				4
SD-2	14	a			1																	
		b																				
		c																				
		d																				
		e																				
	f	2																			17	
SD-2	15	a			1																	
		b																				
		c																				
SD-2	16	a			1																	
		b																				
		c	1																			
		d																				
SD-3	17	a			1																	
		b																				
		c																				
		d	1																			
SD-3	18	a			1																	
		b	1																			
SD-3	19	a																				
		b																				
		c	1																			
SD-3	20	a																				
		b	1																			
SHEET TOTAL			9	4	7	3	1	1	1	84											14	29



DESIGNED P. DONOVAN	NO. REVISION	BY	DATE
DRAWN P. DONOVAN			
CHECKED G. MANOREK			
APPROVED			

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
DRAINAGE QUANTITIES

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

DATE July 2019
PROJECT NO. 11349
SHEET NO. SD-9
DRAWING 38 OF 66

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DRAINAGE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT No.	REMOVE CATCH BASIN	CATCH BASIN (TYPE A)	CATCH BASIN (TYPE E)	MANHOLE TYPE B	REDECK EXIST CB WITH NEW MH FRAME & COVER	REMOVE MANHOLE	ADJUST EXIST MANHOLE TO GRADE	12" PVC	18" PVC	ABANDON PIPE	REMOVE PIPE	DESCRIPTION
			EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	
SD-3	21	a		1										Rt "E" 40+55.00
		b								7				
		c	1											
		d											7	
SD-3	22	a		1										Rt "E" 41+20.00
		b								7				
		c	1											
		d											7	
SD-3	23	a		1										Rt "E" 42+38.50
		b								3				
		c	1											
		d											4	
SD-4	24	a		1										Rt "E" 44+64.00
		b								3				
		c	1											
		d											3	
SD-4	25	a	1											
		b										3		
SD-4	26	a		1										Rt "E" 46+13.50
		b	1											
SD-4	27	a		1										Rt "E" 46+70.00
		b								5				
		c	1											
		d											6	
SD-4	28	a		1										Rt "E" 47+94.00
		b	1											
SD-4	29	a		1										Rt "E" 49+19.00
		b								4				
		c	1											
		d											5	
SD-4	30	a			1									Rt "E" 51+11.20
		b	1											
SHEET SD-8 TOTAL			7	8	1	3	1	1	3	72	4	10	27	
SHEET SD-9 TOTAL			9	4	7	3	1	1	1	84		14	29	
SHEET SD-10 TOTAL			10	8	1					29		3	32	
GRAND TOTAL			26	20	9	6	2	2	4	185	4	27	88	



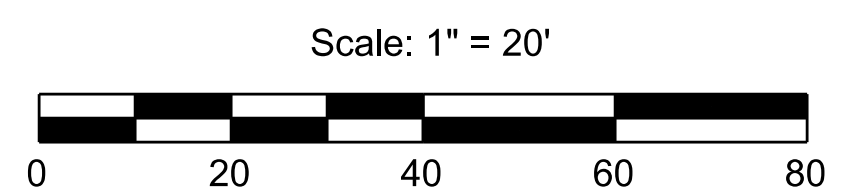
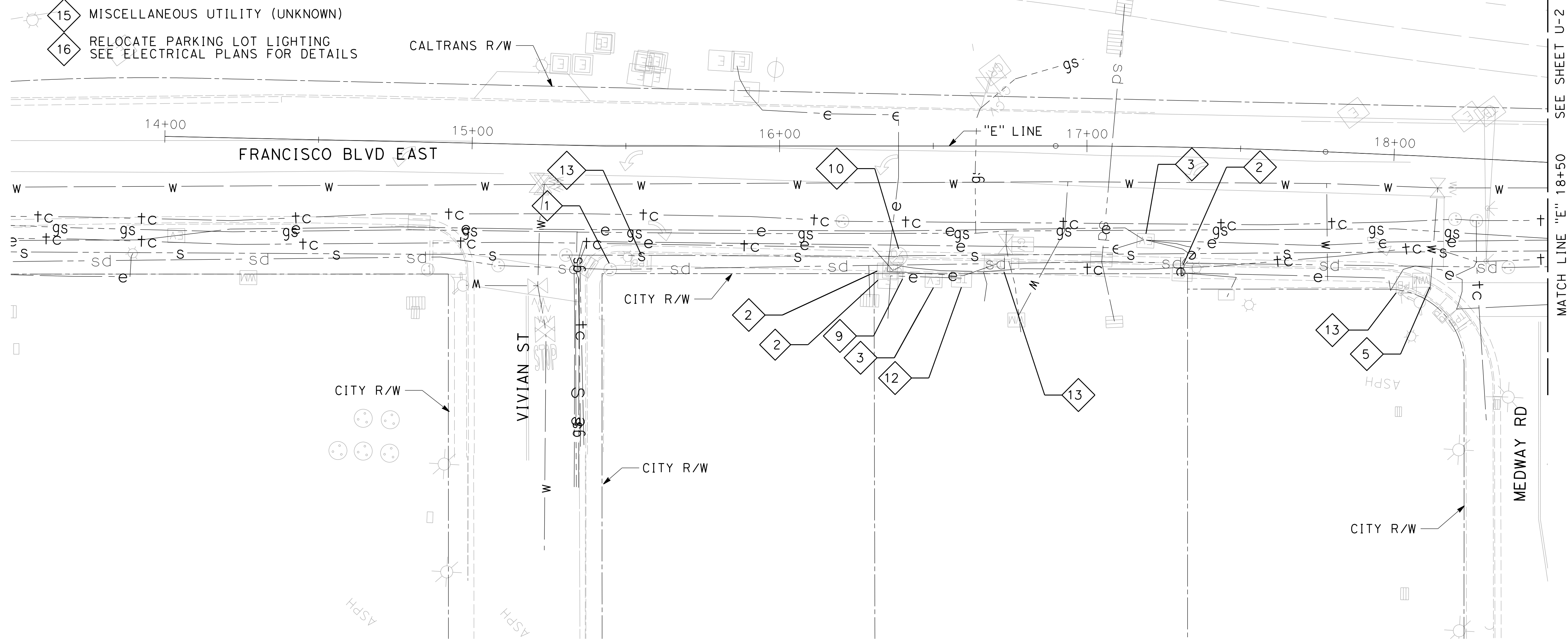
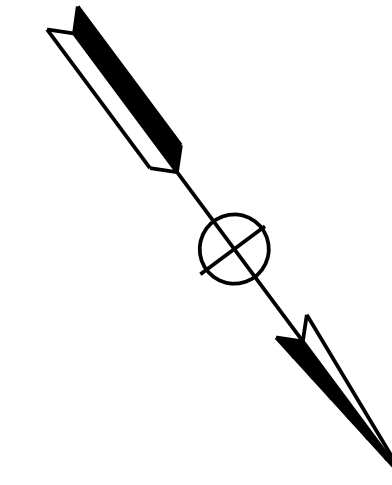
DESIGNED P. DONOVAN	NO. REVISION	BY	DATE
DRAWN P. DONOVAN			
CHECKED G. MANOREK			
APPROVED			
PROJECT NAME FRANCISCO BLVD EAST FROM VIVIAN ST TO GRAND AVE BRIDGE			
DRAWING NAME DRAINAGE QUANTITIES			
SAN RAFAEL COUNTY OF MARIN CALIFORNIA			
 2485 NATOMAS PARK DR, STE 600 SACRAMENTO, CA 95833 PHONE (916) 920-0300			
 CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS			
DATE July 2019			
PROJECT NO. 11349			
SHEET NO. SD-10			
DRAWING 39 OF 66			

LEGEND:

- 1 SD MANHOLE COVER
- 2 ELECTRICAL BOX
- 3 ELECTRIC VAULT
- 4 CALTRANS OWNED PULLBOX
- 5 WATER METER
- 6 NOT USED
- 7 RESET UTILITY OFFSET MONUMENT AND MARKER
- 8 WATER VALVE
- 9 CATV BOX
- 10 CLEANOUT COVER
- 11 GAS VALVE
- 12 TELEPHONE BOX
- 13 CITY OWNED PULLBOX
- 14 SS MANHOLE COVER
- 15 MISCELLANEOUS UTILITY (UNKNOWN)
- 16 RELOCATE PARKING LOT LIGHTING
SEE ELECTRICAL PLANS FOR DETAILS

NOTES:

1. FOR DRAINAGE CONSTRUCTION INFORMATION, SEE DRAINAGE PLAN SHEETS.
2. ALL PRIVATE SERVICE LINES (IRRIGATION AND ELECTRICAL) SHALL BE REMOVED OR RELOCATED OUTSIDE OF THE CITY RIGHT OF WAY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY AND PROPERTY OWNERS PRIOR TO RELOCATION.
3. ALL FIRE HYDRANT TO REMAIN IN PLACE.



DESIGNED	NO. REVISION	BY	DATE
P. DONOVAN			
DRAWN			
P. DONOVAN			
CHECKED			
G. MANOREK			
APPROVED			
PROJECT NAME		FRANCISCO BLVD EAST	
DRAWING NAME		UTILITY PLAN	
		FROM VIVIAN ST TO GRAND AVE BRIDGE	
		"E" 14+00 TO 18+50	
		SAN RAFAEL COUNTY OF MARIN CALIFORNIA	

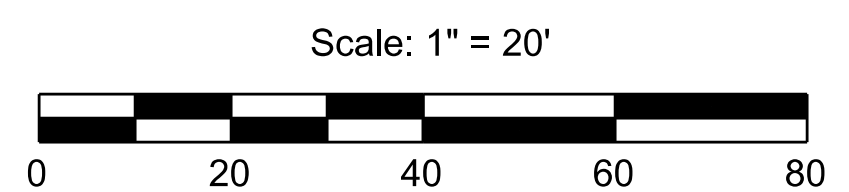
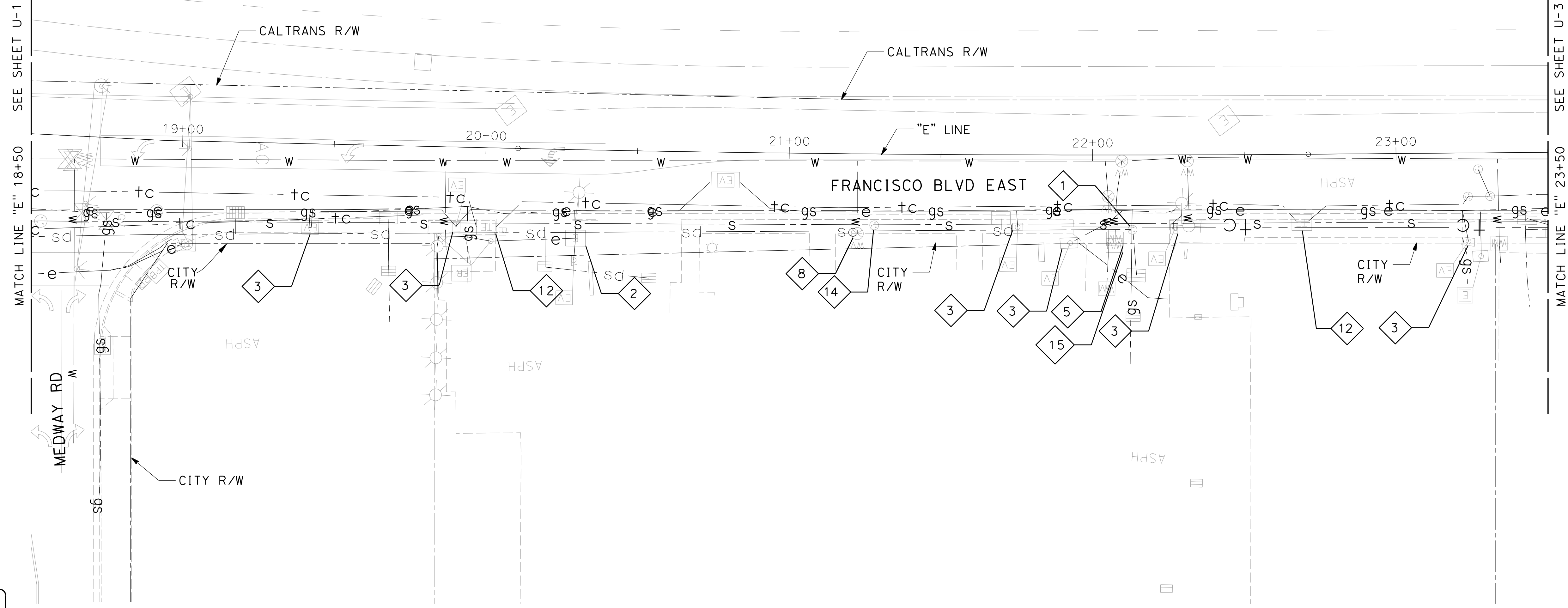
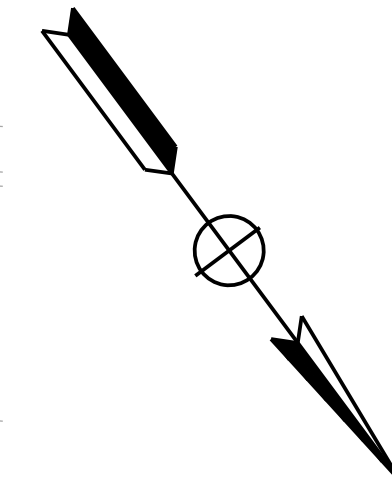
JACOBS
 2485 NATOMAS PARK DR, STE 600
 SACRAMENTO, CA 95833
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CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
 DATE July 2019
 PROJECT NO. 11349
 SHEET NO. U-1
 DRAWING 400F 66

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NOTE:
FOR NOTES AND LEGEND, SEE U-1



DESIGNED	NO.	REVISION	BY	DATE
P. DONOVAN				
DRAWN				
P. DONOVAN				
CHECKED				
G. MANOREK				
APPROVED				

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
UTILITY PLAN
"E" 18+50 TO 23+50

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

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2485 NATOMAS PARK DR, STE 600
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PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

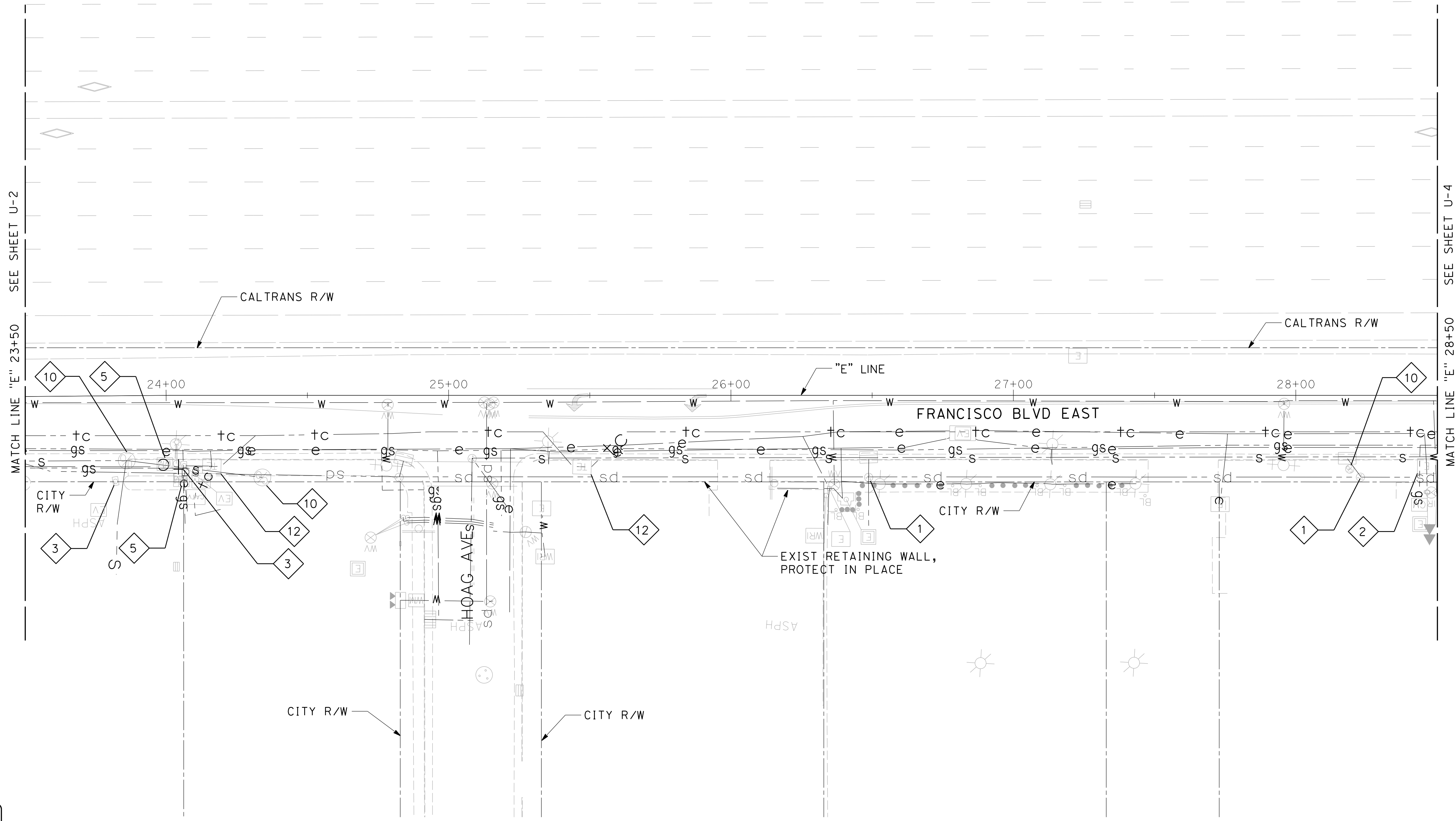
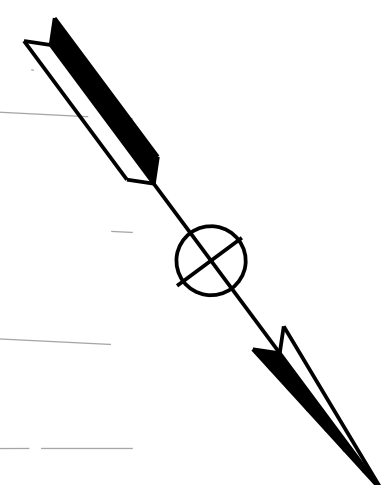
SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. U-2
DRAWING 41 OF 66

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NOTE:

FOR NOTES AND LEGEND, SEE U-1

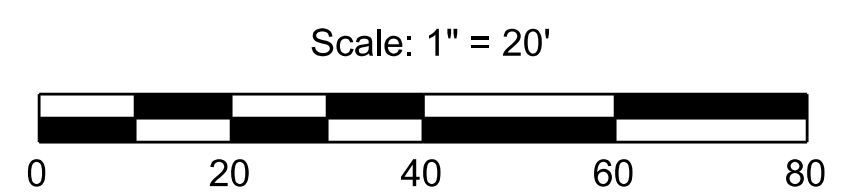


MATCH LINE "E" 23+50 SEE SHEET U-2

MATCH LINE "E" 28+50 SEE SHEET U-4



CALL TWO WORKING DAYS BEFORE YOU DIG



DESIGNED	NO.	REVISION	BY	DATE
P. DONOVAN				
DRAWN				
P. DONOVAN				
CHECKED				
G. MANOREK				
APPROVED				

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
UTILITY PLAN
"E" 23+50 TO 28+50

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

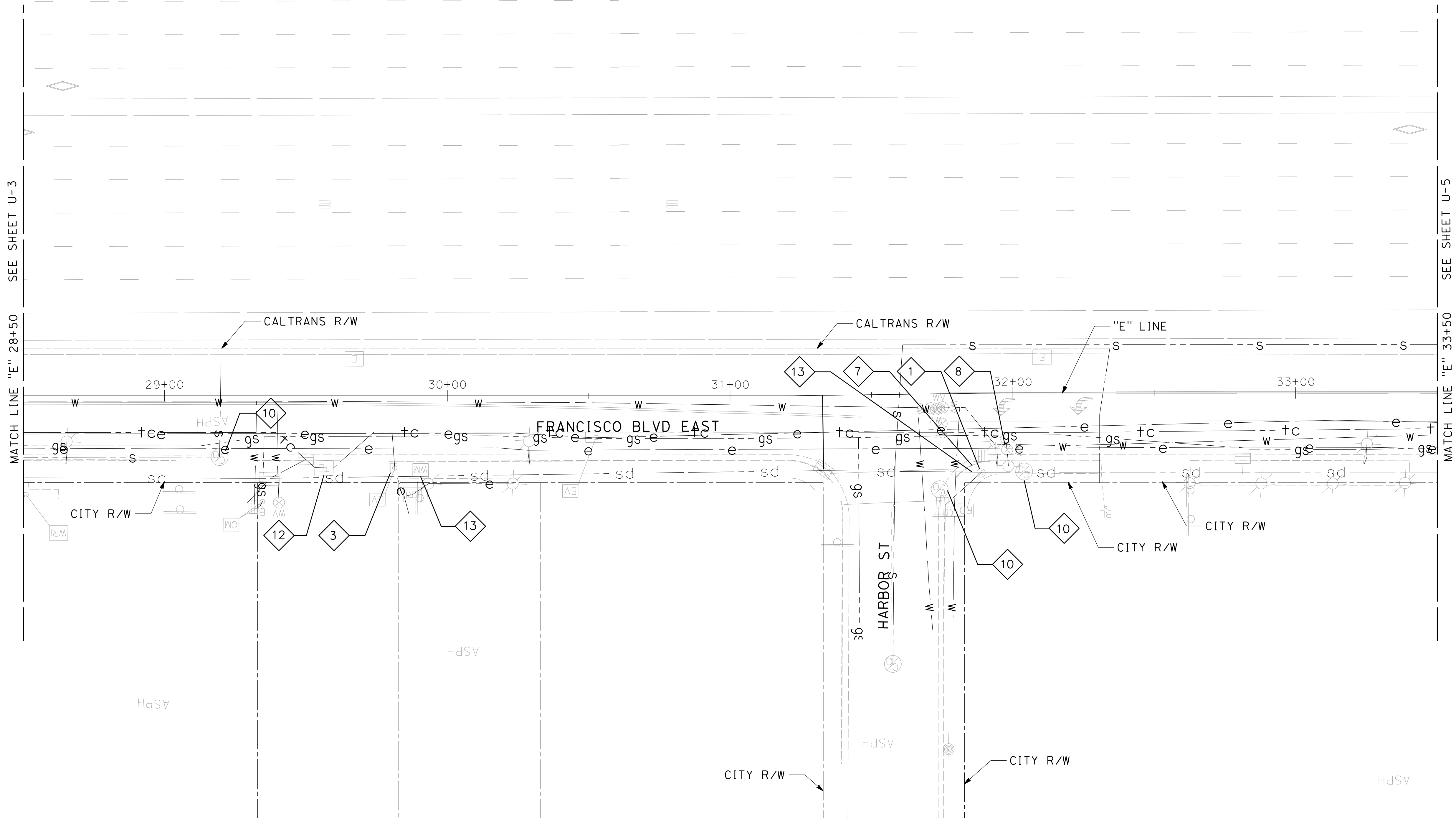
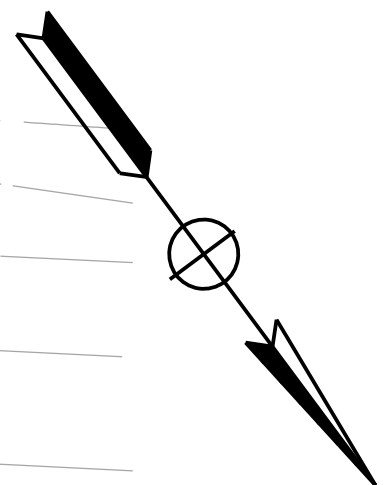
JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

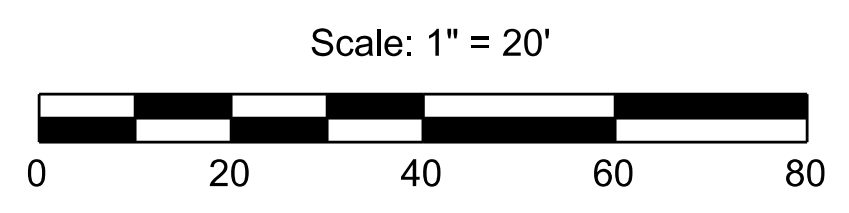
SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. U-3
DRAWING 42 OF 66

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NOTE:
FOR NOTES AND LEGEND, SEE U-1



CALL TWO WORKING DAYS BEFORE YOU DIG



DESIGNED	NO. REVISION	BY	DATE
P. DONOVAN			
DRAWN			
P. DONOVAN			
CHECKED			
G. MANOREK			
APPROVED			

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
UTILITY PLAN
"E" 28+50 TO 33+50

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

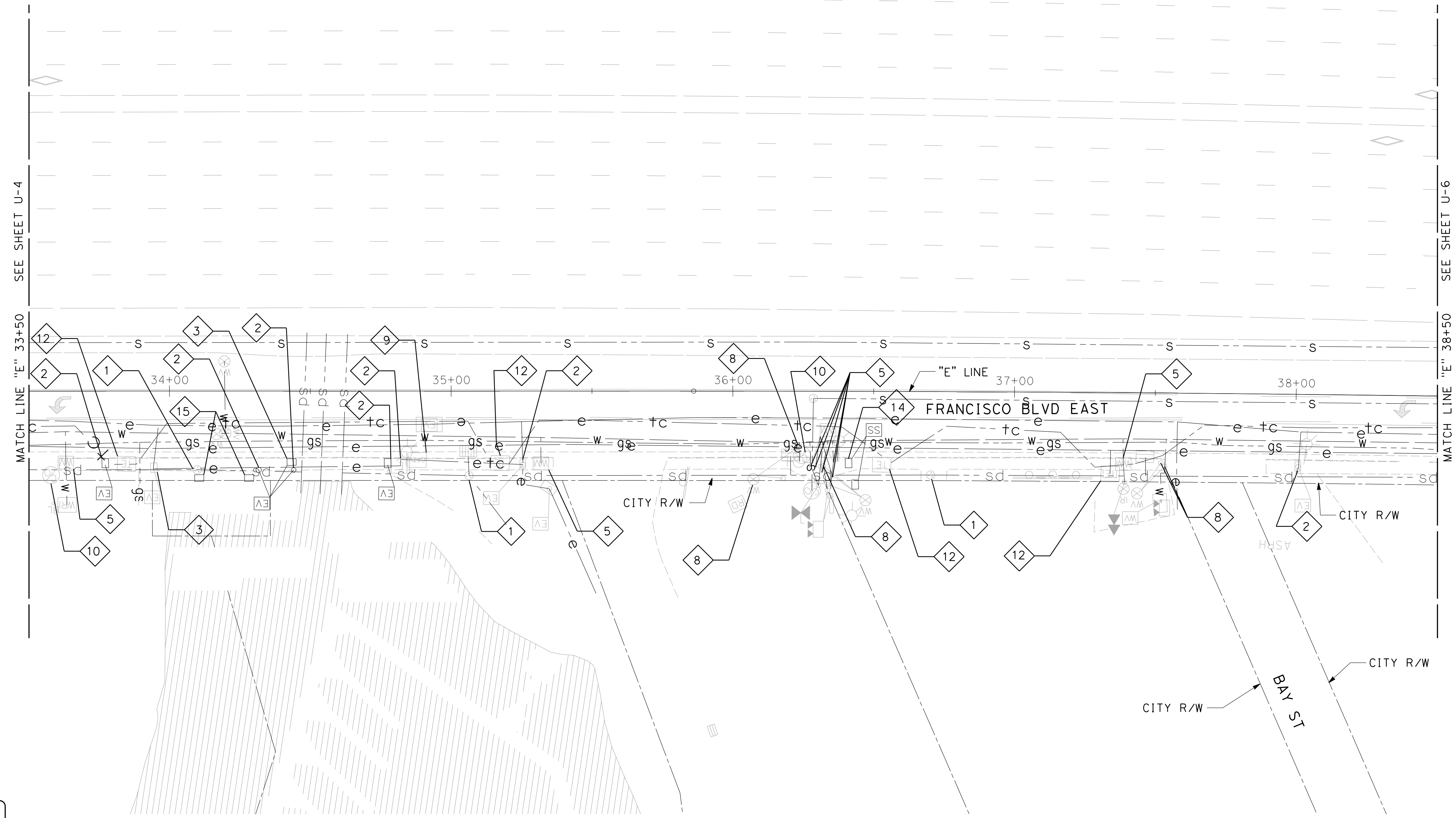
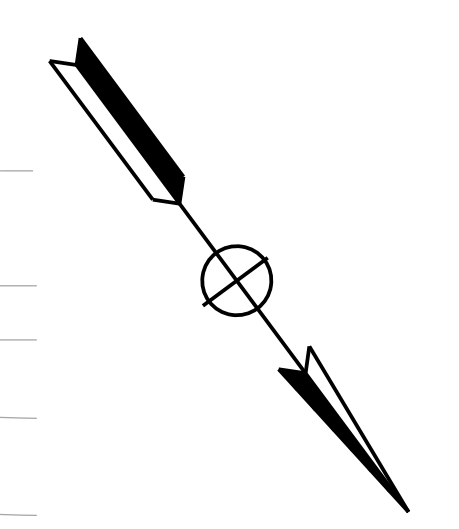
JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

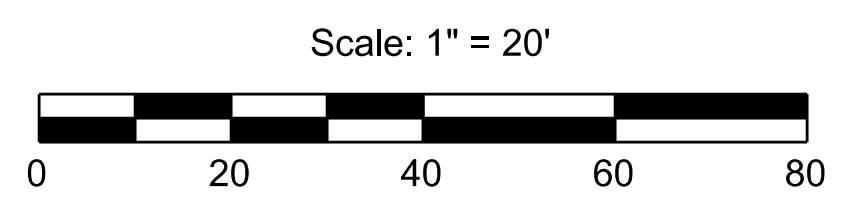
SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. U-4
DRAWING 43 OF 66

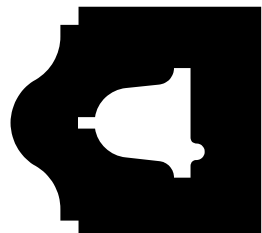
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NOTE:
FOR NOTES AND LEGEND, SEE U-1



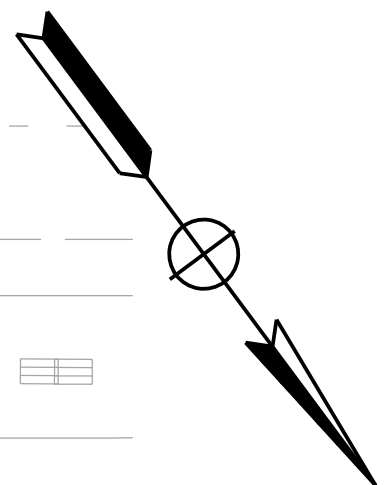
CALL TWO WORKING DAYS BEFORE YOU DIG



 CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS	JACOBS 2485 NATOMAS PARK DR, STE 600 SACRAMENTO, CA 95833 PHONE (916) 920-0300	PROJECT NAME FRANCISCO BLVD EAST FROM VIVIAN ST TO GRAND AVE BRIDGE	DESIGNED P. DONOVAN	NO. REVISION BY DATE
		DRAWING NAME UTILITY PLAN "E" 33+50 TO 38+50 SAN RAFAEL COUNTY OF MARIN CALIFORNIA	DRAWN P. DONOVAN	CHECKED G. MANOREK
SCALE AS NOTED DATE July 2019 PROJECT NO. 11349 SHEET NO. U-5 DRAWING 44 OF 66				

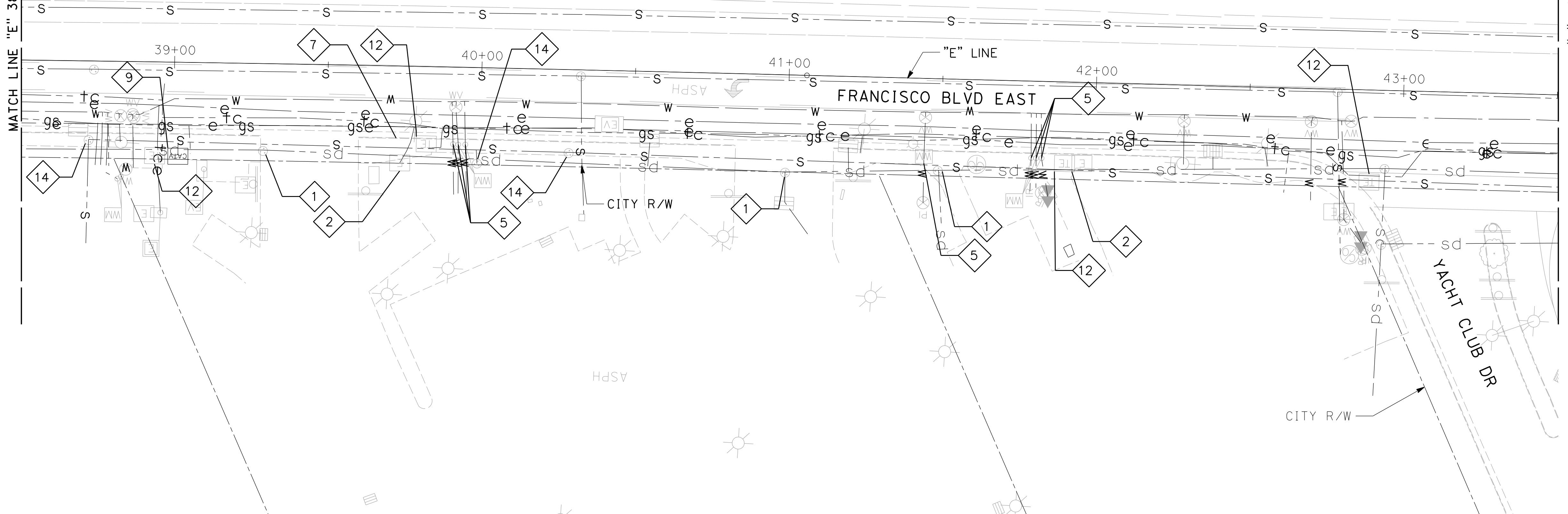
NOTE:

FOR NOTES AND LEGEND, SEE U-1

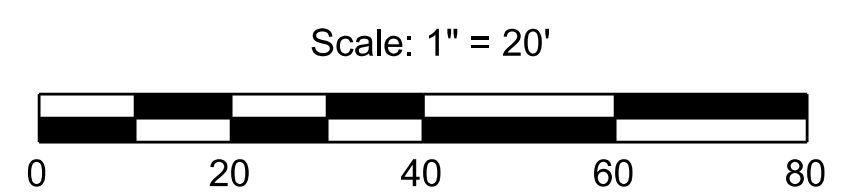


MATCH LINE "E" 38+50 SEE SHEET U-5

MATCH LINE "E" 43+50 SEE SHEET U-7



CALL TWO WORKING DAYS BEFORE YOU DIG



DESIGNED	NO.	REVISION	BY	DATE
P. DONOVAN				
DRAWN				
P. DONOVAN				
CHECKED				
G. MANOREK				
APPROVED				

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
UTILITY PLAN
"E" 38+50 TO 43+50
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS



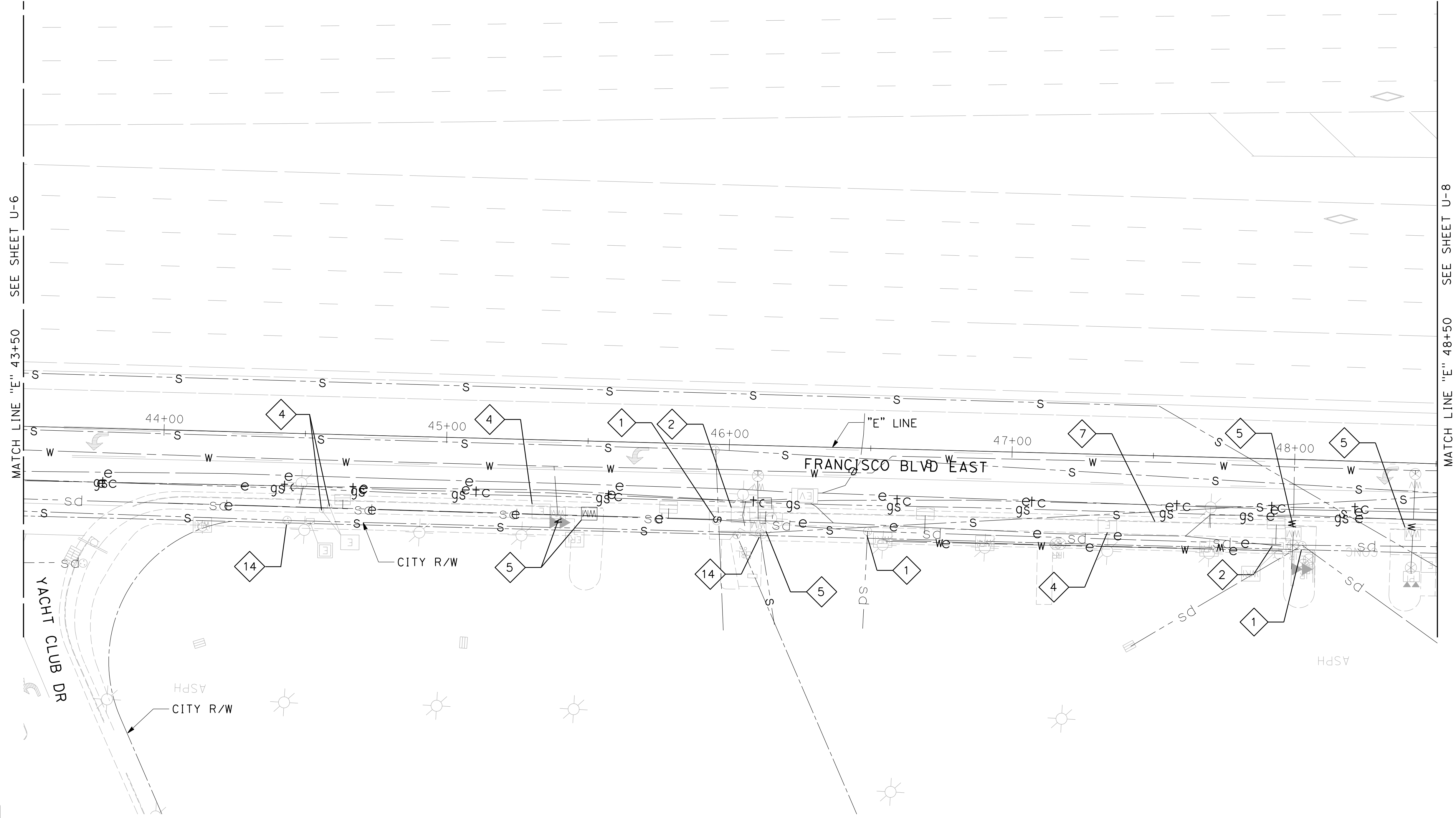
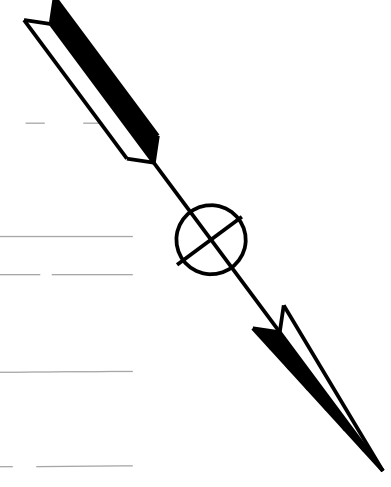
SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. U-6
DRAWING 45 OF 66

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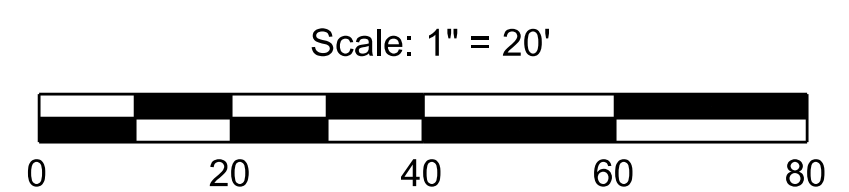
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NOTE:

FOR NOTES AND LEGEND, SEE U-1



CALL TWO WORKING DAYS BEFORE YOU DIG



DESIGNED	NO.	REVISION	BY	DATE
P. DONOVAN				
DRAWN				
P. DONOVAN				
CHECKED				
G. MANOREK				
APPROVED				

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

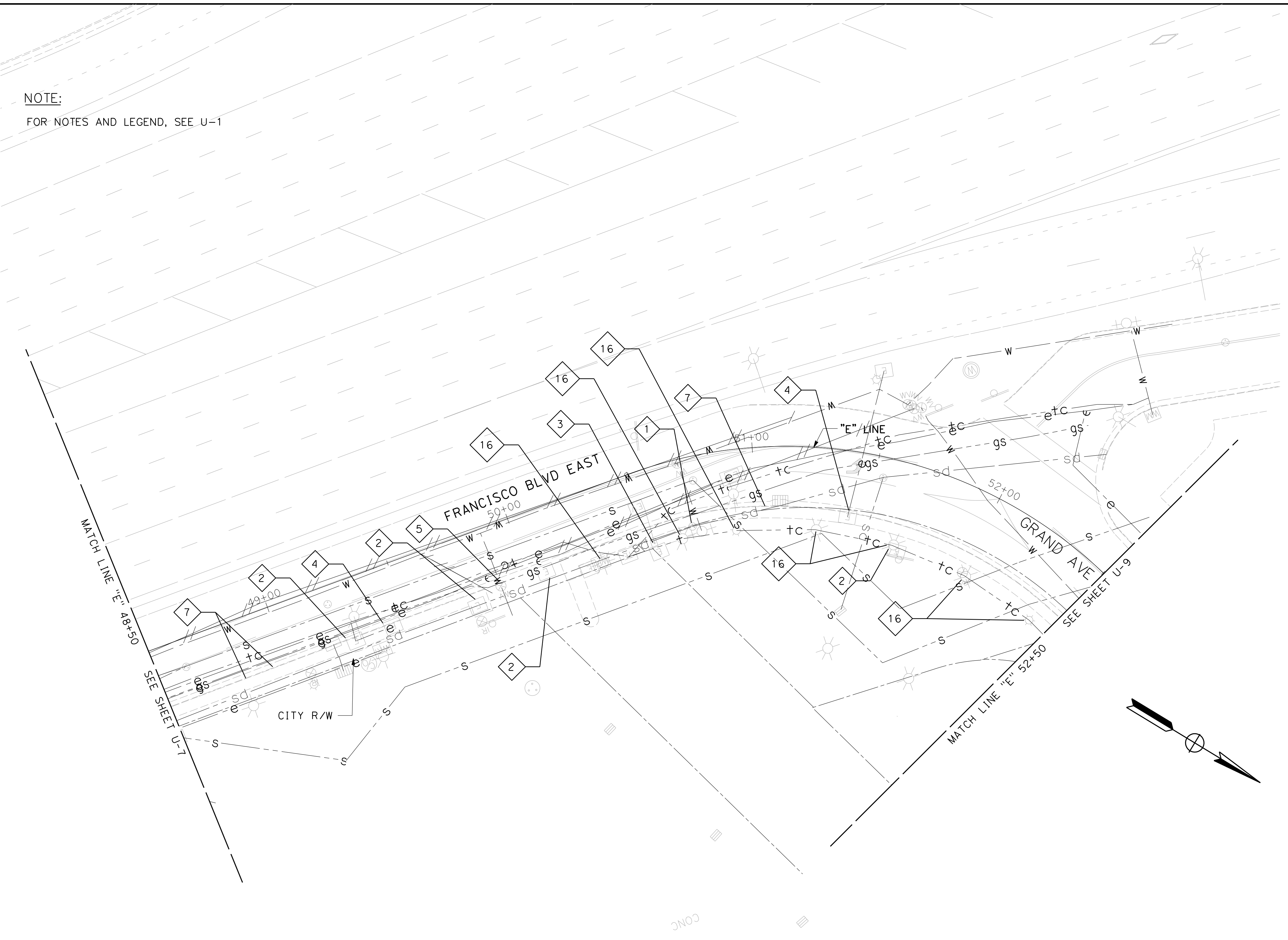
DRAWING NAME
UTILITY PLAN
"E" 43+50 TO 48+50
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

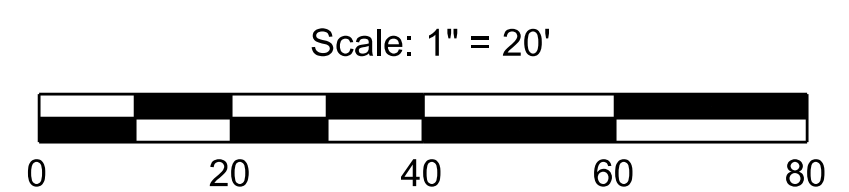
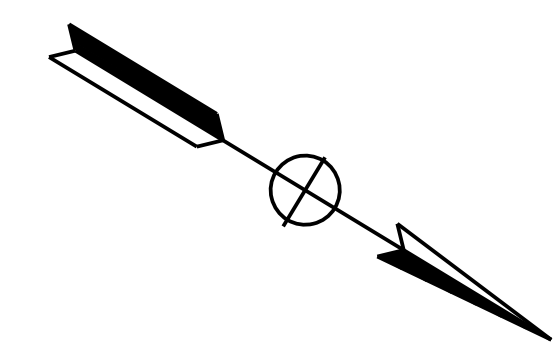
SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. U-7
DRAWING 46 OF 66

NOTE:
FOR NOTES AND LEGEND, SEE U-1



MATCH LINE "E" 48+50
SEE SHEET U-7

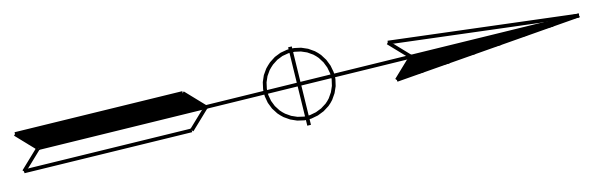
MATCH LINE "E" 52+50
SEE SHEET U-9



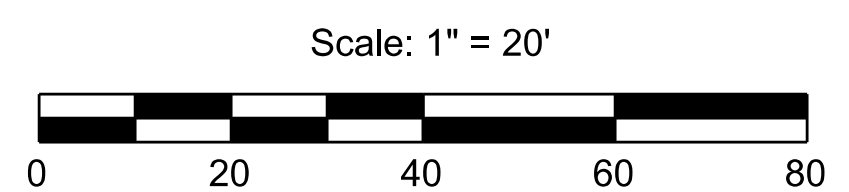
DESIGNED P. DONOVAN	NO. REVISION BY	DATE
DRAWN P. DONOVAN		
CHECKED G. MANOREK		
APPROVED		
PROJECT NAME FRANCISCO BLVD EAST FROM VIVIAN ST TO GRAND AVE BRIDGE		
DRAWING NAME UTILITY PLAN "E" 48+50 TO 52+50		
SAN RAFAEL COUNTY OF MARIN CALIFORNIA		
 2485 NATOMAS PARK DR. STE 600 SACRAMENTO, CA 95833 PHONE (916) 920-0300		
CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS		
SCALE AS NOTED		
DATE July 2019		
PROJECT NO. 11349		
SHEET NO. U-8		
DRAWING 47 OF 66		

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NOTE:
FOR NOTES AND LEGEND, SEE U-1



CALL TWO WORKING
DAYS BEFORE YOU DIG



DESIGNED	NO.	REVISION	BY	DATE
P. DONOVAN				
DRAWN				
P. DONOVAN				
CHECKED				
G. MANOREK				
APPROVED				

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
DEMOLITION AND UTILITY PLAN
"E" 52+50 TO 57+00

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
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CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. U-9
DRAWING 48 OF 66

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DESIGNED	NO. REVISION	BY	DATE
P. DONOVAN			
DRAWN			
P. DONOVAN			
CHECKED			
G. MANOREK			
APPROVED			

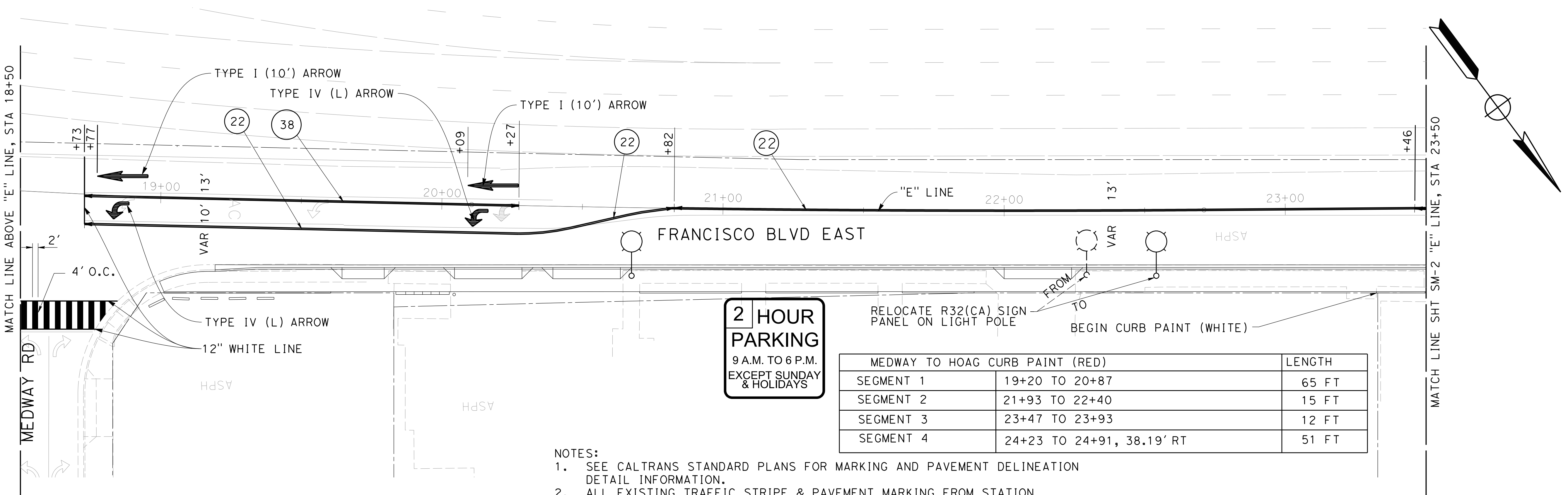
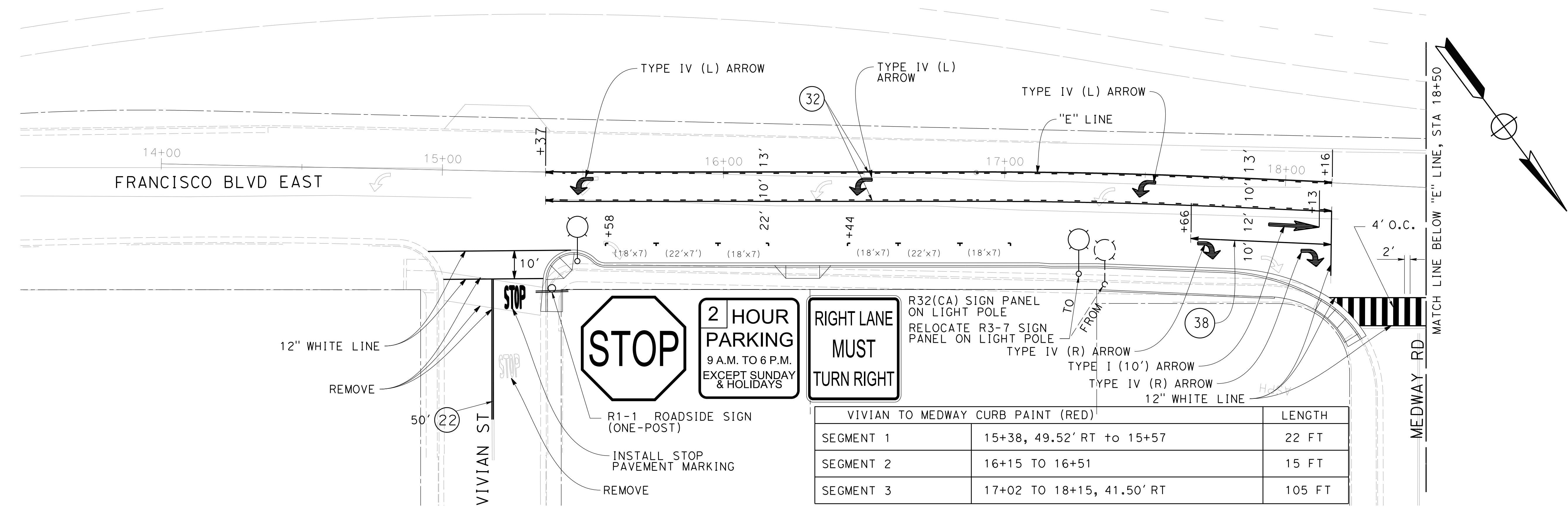
PROJECT NAME
FRANCISCO BLVD EAST
 FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
SIGNING & MARKING PLAN
 "E" 14+00 TO 23+50
 SAN RAFAEL COUNTY OF MARIN CALIFORNIA

JACOBS
 2485 NATOMAS PARK DR, STE 600
 SACRAMENTO, CA 95833
 PHONE (916) 920-0300

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
 DATE July 2019
 PROJECT NO. 11349
 SHEET NO. SM-1
 DRAWING 49 OF 66

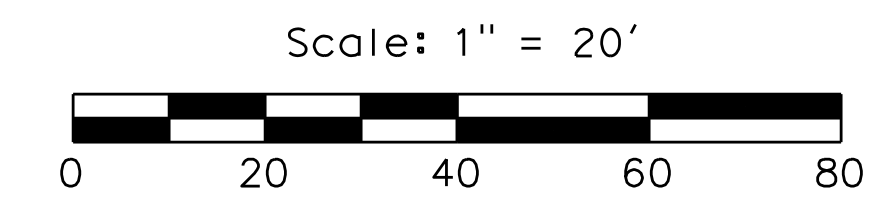


- NOTES:
- SEE CALTRANS STANDARD PLANS FOR MARKING AND PAVEMENT DELINEATION DETAIL INFORMATION.
 - ALL EXISTING TRAFFIC STRIPE & PAVEMENT MARKING FROM STATION "E" 15+37 TO "E" 31+46 SHALL BE REMOVED.
 - SIGNS TO REMAIN IN PLACE SHALL BE REMOVED AND REINSTALLED IN THE SAME LOCATION PER CITY OF SAN RAFAEL DETAILS AND SHALL BE INSTALLED IN THE PIPE SLEEVE.
 - ALL STRIPING AND PAVEMENT MARKERS SHALL BE THERMOPLASTIC.
 - ROADSIDE SIGN PANEL (METAL) USE METAL SIGN POST DETAIL OF THE CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS TRAFFIC ENGINEERING UNIFORM STANDARD.
 - CONTRACTOR SHALL REMOVE ALL MARKING AND PAVEMENT DELINEATION IN CONFLICT WITH NEW MARKING AND PAVEMENT DELINEATION.

LEGEND:

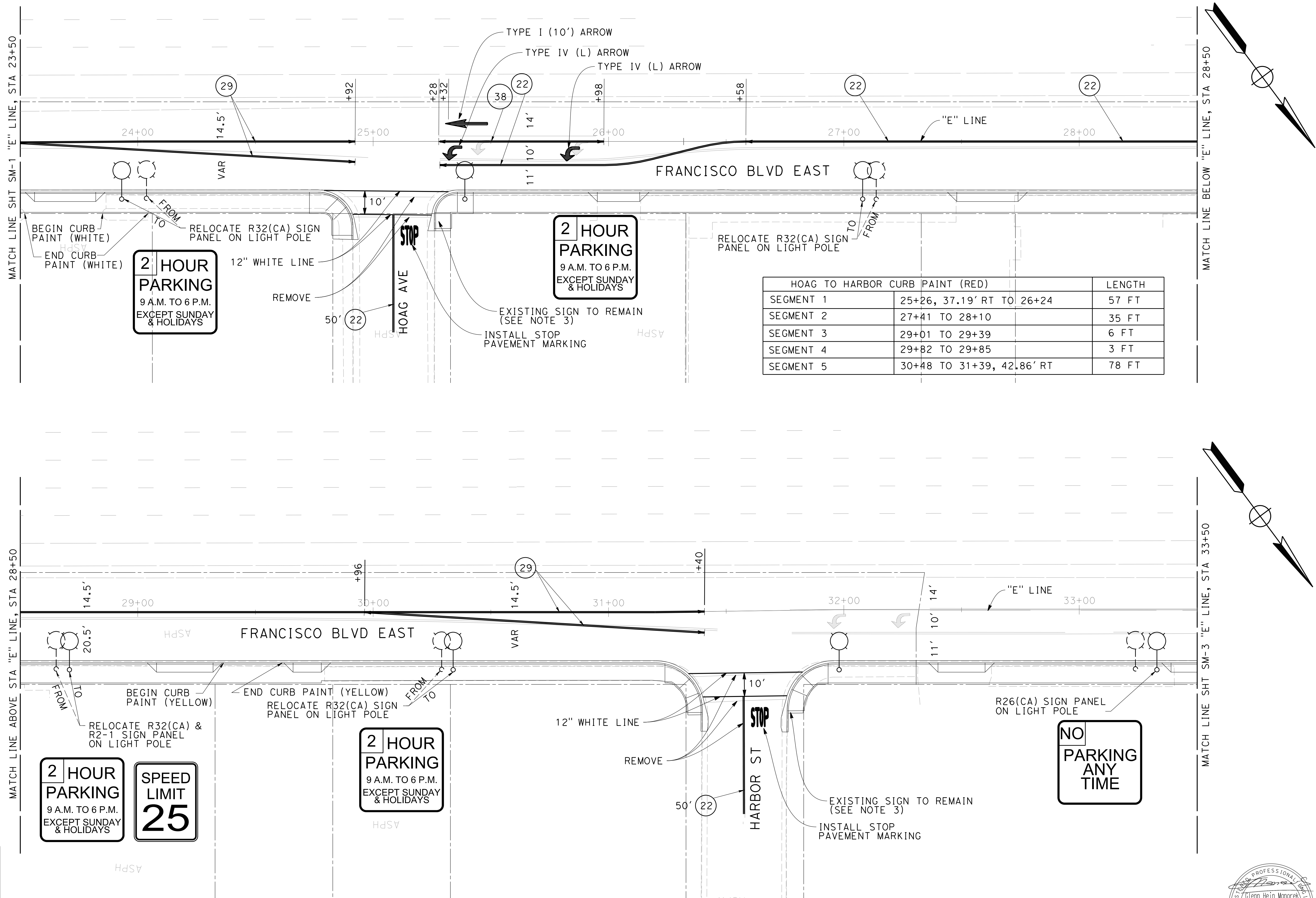
PAVEMENT DELINEATION DETAIL

➔ CHANGE OF PAVEMENT DELINEATION DETAIL



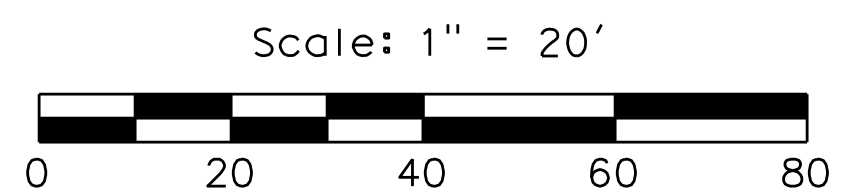
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HOAG TO HARBOR CURB PAINT (RED)		LENGTH
SEGMENT 1	25+26, 37.19' RT TO 26+24	57 FT
SEGMENT 2	27+41 TO 28+10	35 FT
SEGMENT 3	29+01 TO 29+39	6 FT
SEGMENT 4	29+82 TO 29+85	3 FT
SEGMENT 5	30+48 TO 31+39, 42.86' RT	78 FT

NOTE:
1. SEE SHEET SM-1 FOR NOTES AND LEGEND.



DESIGNED	NO. REVISION	BY	DATE
P. DONOVAN			
DRAWN			
P. DONOVAN			
CHECKED			
G. MANOREK			
APPROVED			

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

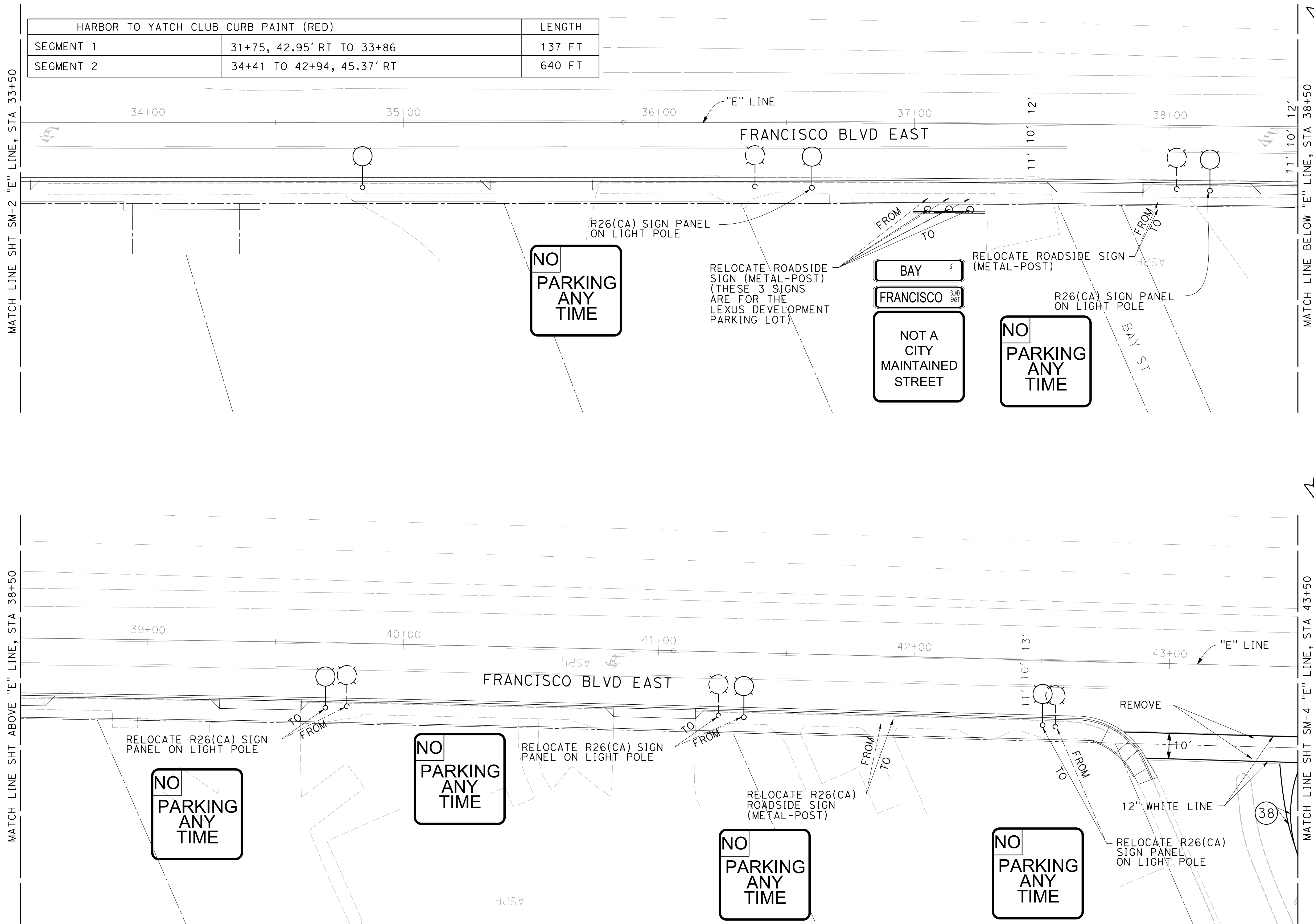
DRAWING NAME
SIGNING & MARKING PLAN
"E" 23+50 TO 33+50
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

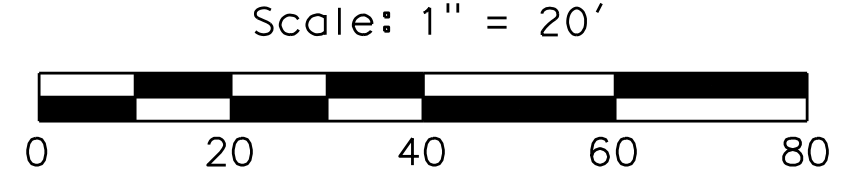
CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. SM-2
DRAWING 50 OF 66

HARBOR TO YATCH CLUB CURB PAINT (RED)		LENGTH
SEGMENT 1	31+75, 42.95' RT TO 33+86	137 FT
SEGMENT 2	34+41 TO 42+94, 45.37' RT	640 FT



NOTE:
1. SEE SHEET SM-1 FOR NOTES AND LEGEND.



DESIGNED	NO.	REVISION	BY	DATE
P. DONOVAN				
DRAWN				
P. DONOVAN				
CHECKED				
G. MANOREK				
APPROVED				

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
SIGNING & MARKING PLAN
"E" 33+50 TO 43+50
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. SM-3
DRAWING 51 OF 66

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YATCH CLUB TO GRAND CURB PAINT (RED)		LENGTH
SEGMENT 1	43+72, 43.33' RT TO 53+08, 24.16' RT	791 FT

MATCH LINE SHT SM-3 "E" LINE, STA 43+50

MATCH LINE BELOW "E" LINE, STA 48+50

12" WHITE LINE
44+00

REMOVE

11' 10" 13'

RELOCATE R26(CA) SIGN
PANEL ON LIGHT POLE



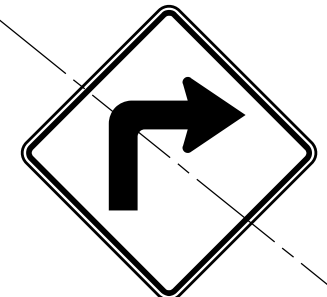
R26(CA) SIGN PANEL
ON LIGHT POLE

RELOCATE R26(CA) SIGN
PANEL ON LIGHT POLE



RELOCATE R26(CA)
ROADSIDE SIGN
(METAL-POST)

ROADSIDE SIGN W1-1R &
W13-1P SIGN PANEL
(METAL-POST) (SEE NOTE 5)

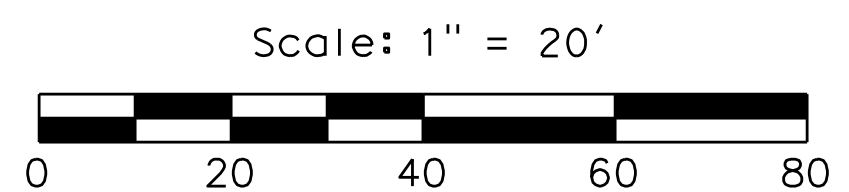


GRAND AVE



NOTE:

- SEE SHEET SM-1 FOR NOTES AND LEGEND.



Scale: 1" = 20'



DESIGNED	NO.	REVISION	BY	DATE
P. DONOVAN				
DRAWN				
P. DONOVAN				
CHECKED				
G. MANOREK				
APPROVED				

PROJECT NAME
FRANCISCO BLVD EAST
FROM VIVIAN ST TO GRAND AVE BRIDGE

DRAWING NAME
SIGNING & MARKING PLAN
"E" 43+50 TO 54+55
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

JACOBS
2485 NATOMAS PARK DR, STE 600
SACRAMENTO, CA 95833
PHONE (916) 920-0300

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
DATE July 2019
PROJECT NO. 11349
SHEET NO. SM-4
DRAWING 52 OF 66

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SIGN SCHEDULE (SHEETS SM-1 TO SM-4)								
SIGN	SIGN NAME/DESCRIPTION	SIZE	INSTALL SIGN PANEL	INSTALL ROADSIDE SIGN (ONE-POST)	REMOVE ROADSIDE SIGN (ONE-POST)	RELOCATE SIGN PANEL	RELOCATE SIGN (METAL-POST)	RESET ROADSIDE SIGN (METAL-POST)
R1-1	STOP	24" x 24"	--	1	1	--	--	--
R2-1	SPEED LIMIT	24" x 30"	--	--	--	1	--	--
R3-7(R)	RIGHT LANE MUST TURN RIGHT	30" x 30"	--	--	--	1	--	--
R26(CA)	NO PARKING	12" x 18"	3	--	--	5	2	--
R32(CA)	2-HOUR PARKING	12" x 18"	1	--	--	5	--	--
W1-1R	RIGHT TURN	30" x 30"	--	--	--	--	1	--
W13-1P	20 MPH	--	--	--	--	1	--	--
--	EXISTING SIGN TO REMAIN (SEE NOTE 1)	--	--	--	--	--	--	2
--	NOT A CITY MAINTAINED STREET	--	--	--	--	--	1	--
--	LEXUS DEALERSHIP SIGNS (SEE NOTE 2)	--	--	--	--	--	3	--
TOTAL			4	1	1	13	7	2

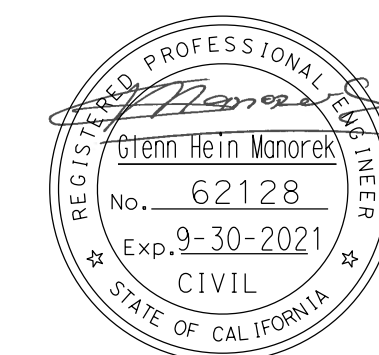
NOTES: 1. EXISTING SIGN TO REMAIN PAID FOR AS RESET ROADSIDE SIGN (METAL POST)
 2. PARKING LOT SIGNS RELOCATION SHALL BE COORDINATED WITH THE PROPERTY OWNER PRIOR TO RELOCATION

PAVEMENT MARKING SCHEDULE				
PATTERN OR LEGEND	INSTALL		REMOVE	
	No.	TOTAL SQFT.	No.	TOTAL SQFT.
12" WHITE THERMOPLASTIC LINE	612 LF	612	650 LF	650
24" WHITE THERMOPLASTIC LINE	235 SQFT	235	--	--
(THERMOPLASTIC) TYPE I (10')	4 EA	56	3 EA	45
(THERMOPLASTIC) TYPE IV (R)	2 EA	30	3 EA	45
(THERMOPLASTIC) TYPE IV (L)	7 EA	105	8 EA	120
(THERMOPLASTIC) STOP	3 EA	66	3 EA	66
TOTAL		1104		923

PAINT SCHEDULE		
PAINT TYPE	INSTALL (LF)	REMOVE (SQFT)
RED CURB PAINT	2500 *	--
WHITE CURB PAINT	40	--
YELLOW CURB PAINT	25	--
TOTAL	2565	--

* TOTAL QUANTITIES SHOWN ON SHEET SM-1 TO SM-4 IS 2032 LF. LOCATION OF ADDITIONAL PAINT SHOWN ABOVE WILL BE DECIDED AND DIRECTED BY THE ENGINEER DURING CONSTRUCTION.

STRIPING SCHEDULE				
DETAIL	PATTERN OR LEGEND	INSTALL THERMOPLASTIC (SPRAYABLE) (LF)	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (LF)	REMOVE PAINTED TRAFFIC STRIPE (LF)
22	CENTER LINE	1093	2762	--
29	MEDIAN ISLAND	1160	--	--
32	TWO-WAY LEFT TURN LANES	1116	1116	--
38	CHANNELIZING LINE	367	--	549
TOTAL		3736	3878	549



DESIGNED P. DONOVAN	DRAWN P. DONOVAN	CHECKED G. MANOREK	APPROVED	DATE	DATE
PROJECT NAME FRANCISCO BLVD EAST FROM VIVIAN ST TO GRAND AVE BRIDGE					
DRAWING NAME SIGNING AND MARKING QUANTITIES					
SAN RAFAEL COUNTY OF MARIN CALIFORNIA					
JACOBS 2485 NATOMAS PARK DR, STE 600 SACRAMENTO, CA 95833 PHONE (916) 920-0300					
CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS					
DATE July 2019					
PROJECT NO. 11349					
SHEET NO. SM-5					
DRAWING 53 OF 66					

ELECTRICAL INDEX:

- E-1 STREET LIGHTING
SIGNAL INTERCONNECT
- E-2 TO E-5 STREET LIGHTING
- E-6 & E-7 SIGNAL AND LIGHTING
N.I.C. = NOT IN CONTRACT

GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST VERSION OF THE CITY OF SAN RAFAEL STANDARDS, 2018 CALTRANS STANDARD PLANS AND SPECIFICATIONS WITH SUBSEQUENT REVISIONS, THE LATEST CA MUTCD AND THE SPECIAL PROVISIONS.
2. NO ABOVE GROUND ELECTRICAL WORK SHALL BE PERFORMED ON ANY SYSTEM WITHIN THE PROJECT SITE UNTIL ALL CONTRACTOR-FURNISHED ELECTRICAL MATERIALS FOR THAT INDIVIDUAL SYSTEM HAVE BEEN TESTED AND DELIVERED TO CONTRACTOR.
3. UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (U.S.A.) AT 1-800-642-2444 OR 811 AT LEAST TWO FULL WORKING DAYS PRIOR TO EXCAVATION WORK.
4. CONTRACTOR SHALL VERIFY OVERHEAD AND UNDERGROUND CLEARANCE REQUIREMENTS WITH PG&E, AT&T AND OTHER AFFECTED UTILITIES PRIOR TO THE START OF WORK.
5. DEMOLITION OF EXISTING FEATURES SHALL BE LIMITED TO THE ITEMS SHOWN ON THE PLANS AND DESCRIBED IN THE SPECIAL PROVISIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE ALL EXISTING IMPROVEMENTS DAMAGED BY HIS OPERATIONS, AT HIS EXPENSE.
6. THE LOCATION OF ALL PULL BOXES, CONDUITS AND OTHER EQUIPMENT SHOWN ON THIS PLAN ARE APPROXIMATE AND MAY BE CHANGED TO SUIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
7. ALL NEW PULL BOXES SHALL NOT BE PLACED WITHIN DRIVEWAY AND CURB RAMP AREAS.
8. THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.
9. THE CONTRACTOR SHALL CONTACT PG&E FOR NEW SERVICE CONNECTIONS AND VERIFY WITH PG&E REGARDING SERVICE PULL BOX, CONDUIT AND CONDUCTOR REQUIREMENTS PRIOR TO BEGINNING OF WORK.
10. ALL PULL BOXES SHALL BE No. 5, UNLESS OTHERWISE NOTED ON THE PLAN. TRAFFIC SIGNAL PULL BOX COVERS SHALL BE INSCRIBED "TRAFFIC SIGNAL". "CALTRANS" INSCRIPTION SHALL NOT BE USED.
11. UNLESS OTHERWISE NOTED, ALL ELECTRICAL PULL BOXES ON PROPOSED SIDEWALK SHALL BE ADJUSTED TO FINAL GRADE.

ABBREVIATIONS:

PG&E PACIFIC GAS AND ELECTRIC COMPANY

LEGEND:

- ⋯⋯⋯ PG&E EXISTING PG&E PULL BOX FOR LIGHTING SERVICE
- (A1) CITY STREET LIGHT, CALTRANS TYPE 15 STANDARD WITH 200W LED LUMINAIRE AND 6' LUMINAIRE ARM.

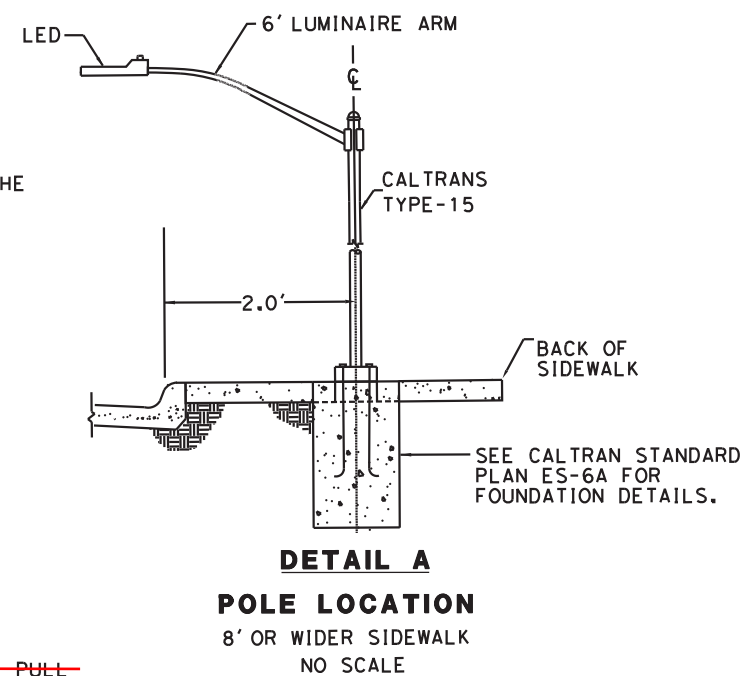


STANDARD PROJECT NOTES:

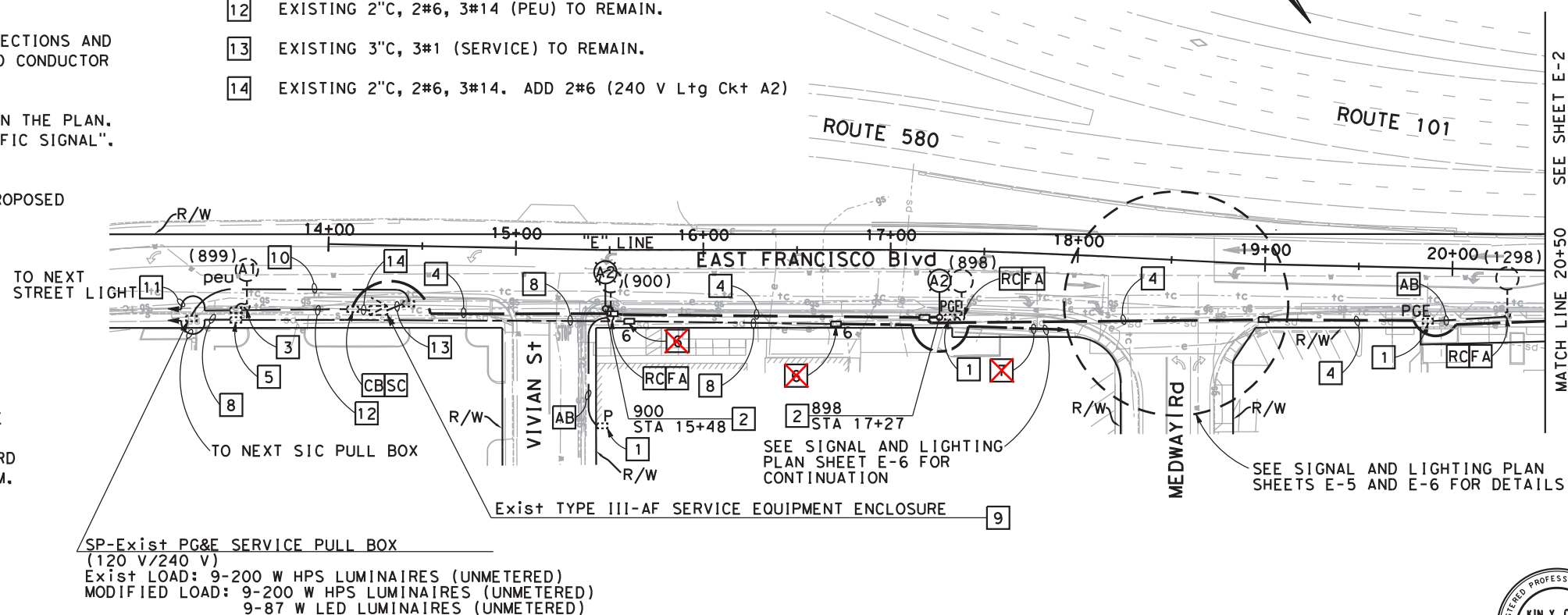
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- CB INSTALL CONDUIT TO EXISTING PULL BOX.
- FA FOUNDATION TO BE ABANDONED.
- RC EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- SC SPLICE NEW AND EXISTING CONDUCTORS.

PROJECT NOTES (FOR THIS SHEET ONLY):

- 1 EXISTING PG&E PULL BOX. SEE UTILITY PLAN FOR DETAIL.
- 2 SEE DETAIL A FOR POLE LOCATION.
- 3 EXISTING STREET LIGHTING TO REMAIN.
- 4 2"C, 2#6 (240 V Ltg).
- 5 EXISTING INTERCONNECT PULL BOX TO REMAIN.
- ~~6 REPLACE EXISTING PULL BOX WITH A NEW NO. 6 PULL BOX. THE COVER OF PULL BOX SHALL BE LABELED "INTERCONNECT". N.I.C.~~
- ~~7 3"C, PT (FOR FUTURE SIC). N.I.C.~~
- 8 EXISTING 1/2"C, PT TO REMAIN.
- 9 ADD ONE 30A, 2P, 240 V CIRCUIT BREAKER (CB) AND ONE 60A, 2P, CONTACTOR TO EXISTING UNMETERED TYPE III-AF SERVICE EQUIPMENT ENCLOSURE. CONNECT NEW STREET LIGHTING TO NEW CIRCUIT BREAKER.
- 10 EXISTING 3"C WITH SERVICE WIRES TO REMAIN.
- 11 EXISTING 2"C, 2#6 TO REMAIN.
- 12 EXISTING 2"C, 2#6, 3#14 (PEU) TO REMAIN.
- 13 EXISTING 3"C, 3#1 (SERVICE) TO REMAIN.
- 14 EXISTING 2"C, 2#6, 3#14. ADD 2#6 (240 V Ltg Ckt A2)

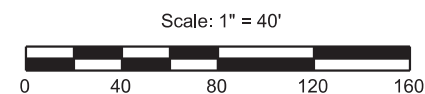


**DETAIL A
POLE LOCATION**
8' OR WIDER SIDEWALK
NO SCALE



SP-Exist PG&E SERVICE PULL BOX
(120 V/240 V)
Exist LOAD: 9-200 W HPS LUMINAIRES (UNMETERED)
MODIFIED LOAD: 9-200 W HPS LUMINAIRES (UNMETERED)
9-87 W LED LUMINAIRES (UNMETERED)

APPROVED FOR ELECTRICAL WORK ONLY



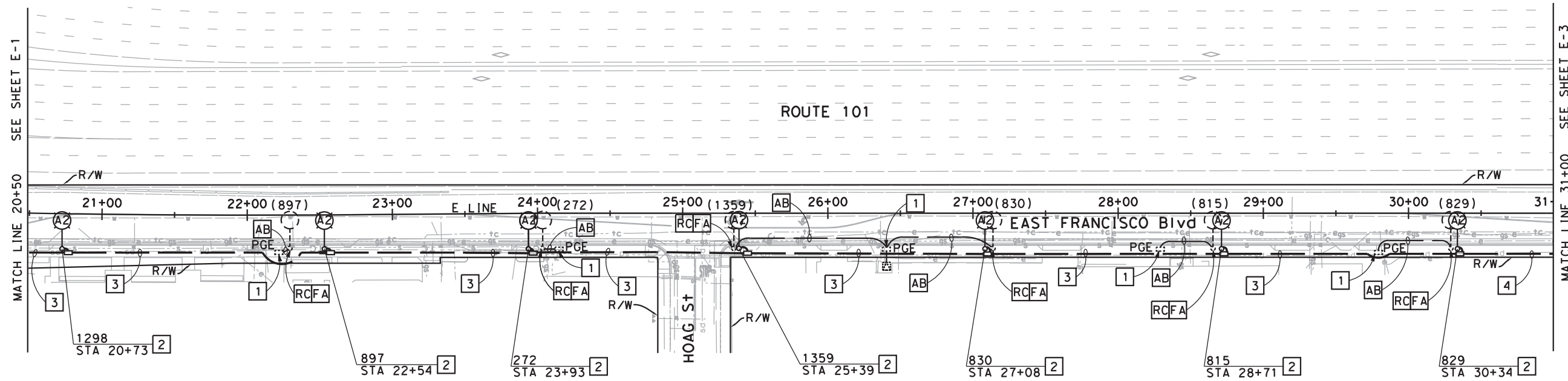
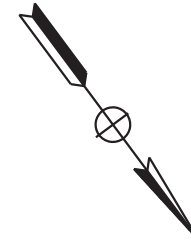
	DESIGNED	NO. REVISION	BY	DATE
	DRAWN			
	CHECKED			
	APPROVED			
PROJECT NAME EAST FRANCISCO BLVD. FROM VIVIAN ST. TO GRAND AVE. BRIDGE				
DRAWING NAME STREET LIGHTING				
SIGNAL INTERCONNECT				
SAN RAFAEL COUNTY OF MARIN CALIFORNIA				
 Y & C TRANSPORTATION CONSULTANTS, INC. 3250 RAMOS CIRCLE SAN RAFAEL, CA 94927 (916) 366-8000 FAX: (916) 366-8008				
CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS				
SCALE AS NOTED				
DATE 5/21/19				
PROJECT NO. 11114				
SHEET NO. E-1				
DRAWING 54 OF 66				

NOTE:

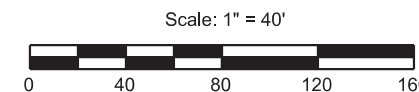
1. SEE SHEET E-1 FOR GENERAL AND STANDARD NOTES, ABBREVIATIONS AND LEGEND.

PROJECT NOTES (FOR THIS SHEET ONLY):

- 1 EXISTING PG&E PULL BOX. SEE UTILITY PLAN FOR DETAIL.
- 2 SEE DETAIL A ON SHEET E-1 FOR POLE LOCATION.
- 3 2"C, 2#6 (240 V Ltg).
- 4 2"C, PT.



APPROVED FOR ELECTRICAL WORK ONLY



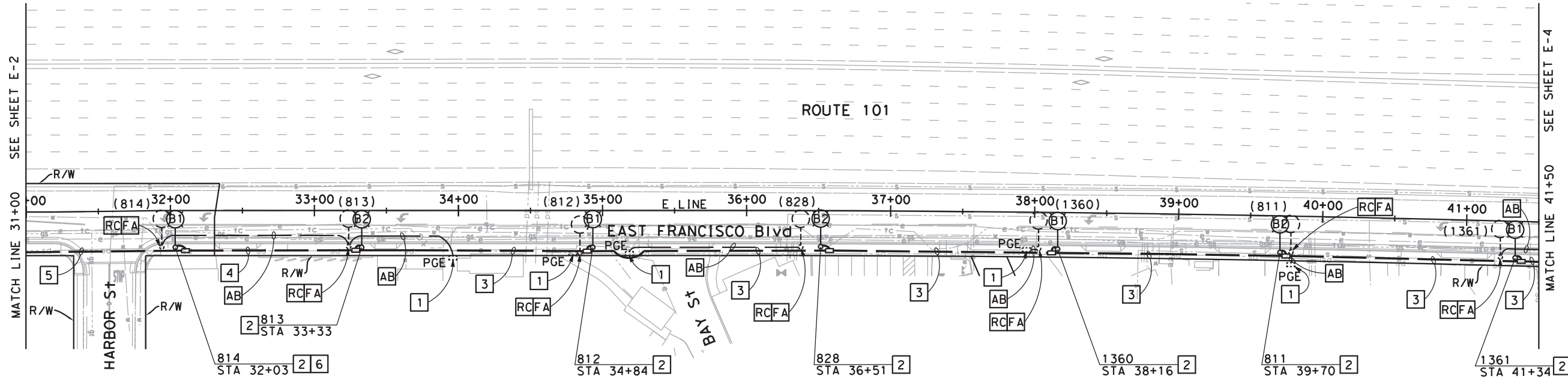
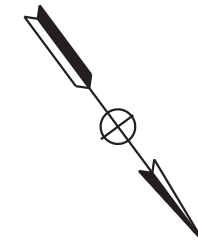
PROJECT NAME EAST FRANCISCO BLVD. FROM VIVIAN ST. TO GRAND AVE. BRIDGE DRAWING NAME STREET LIGHTING	DESIGNED	NO. REVISION	BY	DATE
	DRAWN	CHECKED	APPROVED	DATE
Y & C TRANSPORTATION CONSULTANTS, INC. 32260 RAMOS CIRCLE SAN RAMON, CA 94527 (916) 366-8000 FAX: (916) 366-8008				
CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS				
SCALE AS NOTED DATE 5/21/19 PROJECT NO. 11119 SHEET NO. E-2 DRAWING 55 OF 66				

NOTE:

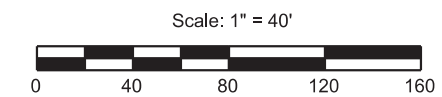
1. SEE SHEET E-1 FOR GENERAL AND STANDARD NOTES, ABBREVIATIONS AND LEGEND.

PROJECT NOTES (FOR THIS SHEET ONLY):

- 1 EXISTING PG&E PULL BOX. SEE UTILITY PLAN FOR DETAIL.
- 2 SEE DETAIL A ON SHEET E-1 FOR POLE LOCATION.
- 3 2" C, 4#6 (208 V Ltg).
- 4 2" C, 2#6 (208 V Ltg).
- 5 2" C, PT.
- 6 INSTALL STREET LIGHTING 5' MINIMUM FROM THE FIRE HYDRANT.



APPROVED FOR ELECTRICAL WORK ONLY



DESIGNED	NO. REVISION	BY	DATE
DRAWN			
CHECKED			
APPROVED			

PROJECT NAME
EAST FRANCISCO BLVD.
 FROM VIVIAN ST. TO GRAND AVE. BRIDGE

DRAWING NAME
STREET LIGHTING

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

Y & C TRANSPORTATION CONSULTANTS, INC.
 32260 RAMOS CIRCLE
 SAN RAFAEL, CA 94927
 (916) 366-8000 FAX: (916) 366-8008

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS

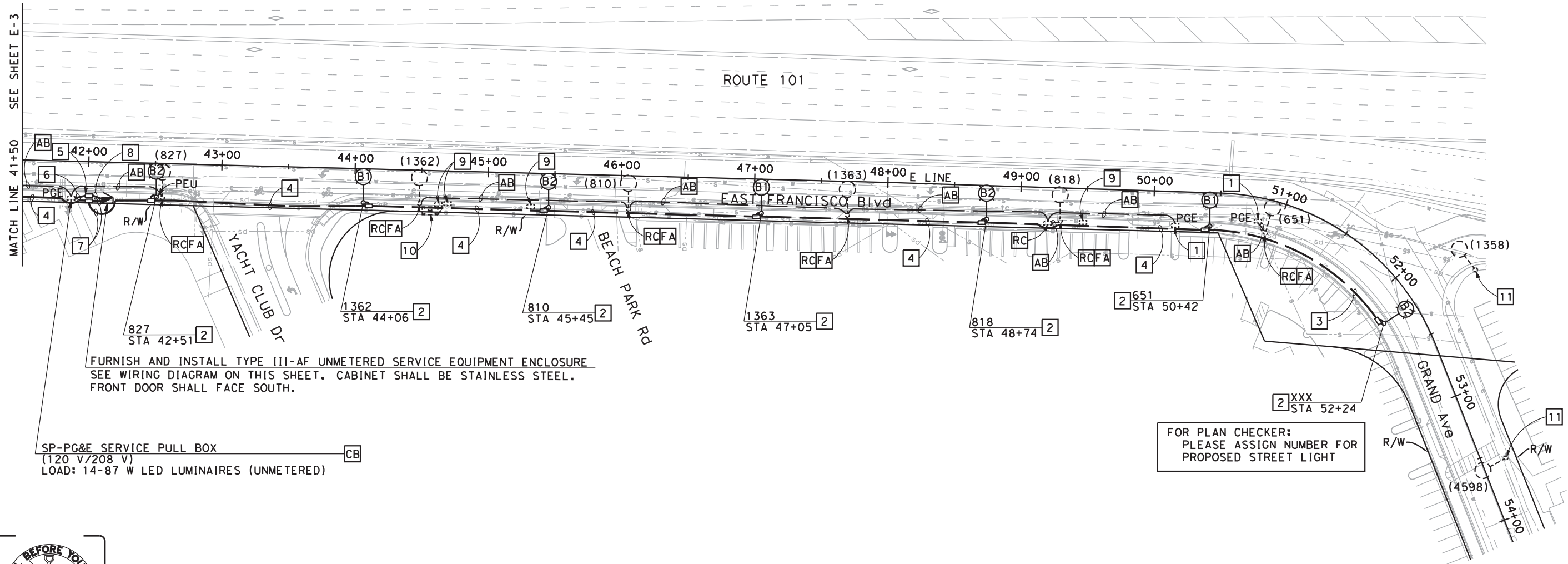
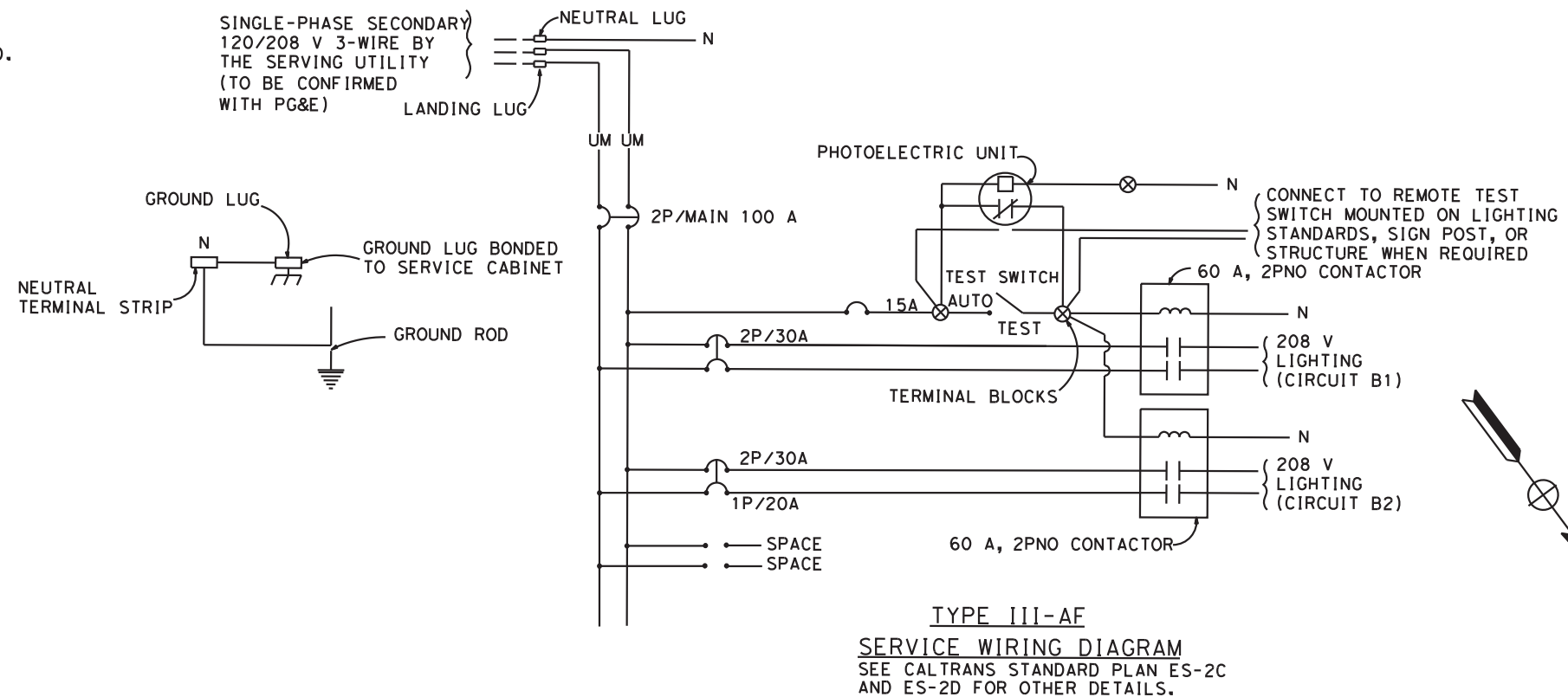
SCALE AS NOTED
 DATE 5/21/19
 PROJECT NO. 11114
 SHEET NO. E-3
 DRAWING 56 OF 66

NOTE:

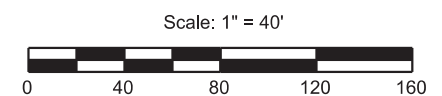
1. SEE SHEET E-1 FOR GENERAL AND STANDARD NOTES, ABBREVIATIONS AND LEGEND.

PROJECT NOTES (FOR THIS SHEET ONLY):

- 1 EXISTING PG&E PULL BOX. SEE UTILITY PLAN FOR DETAIL.
- 2 SEE DETAIL A ON LIGHTING PLAN SHEET E-1 FOR POLE LOCATION.
- 3 2" C, 2#6 (208 V Ltg).
- 4 2" C, 4#6 (208 V Ltg).
- 5 INSTALL NO. 2 PULL BOX PER PG&E REQUIREMENT.
- 6 3" C, PT. COORDINATE WITH PG&E FOR SERVICE CONNECTION.
- 7 2" C, 4#6 (208 V Ltg), 3#14 (PEU).
- 8 2" C, 3#1 (SERVICE).
- 9 ADJUST EXISTING TOS PULL BOX TO FINAL GRADE.
- 10 EXISTING TMS CONTROLLER TO REMAIN.
- 11 EXISTING STREET LIGHT TO REMAIN.



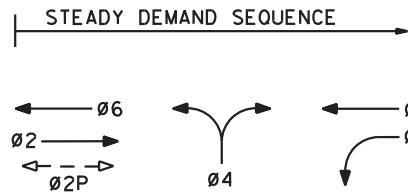
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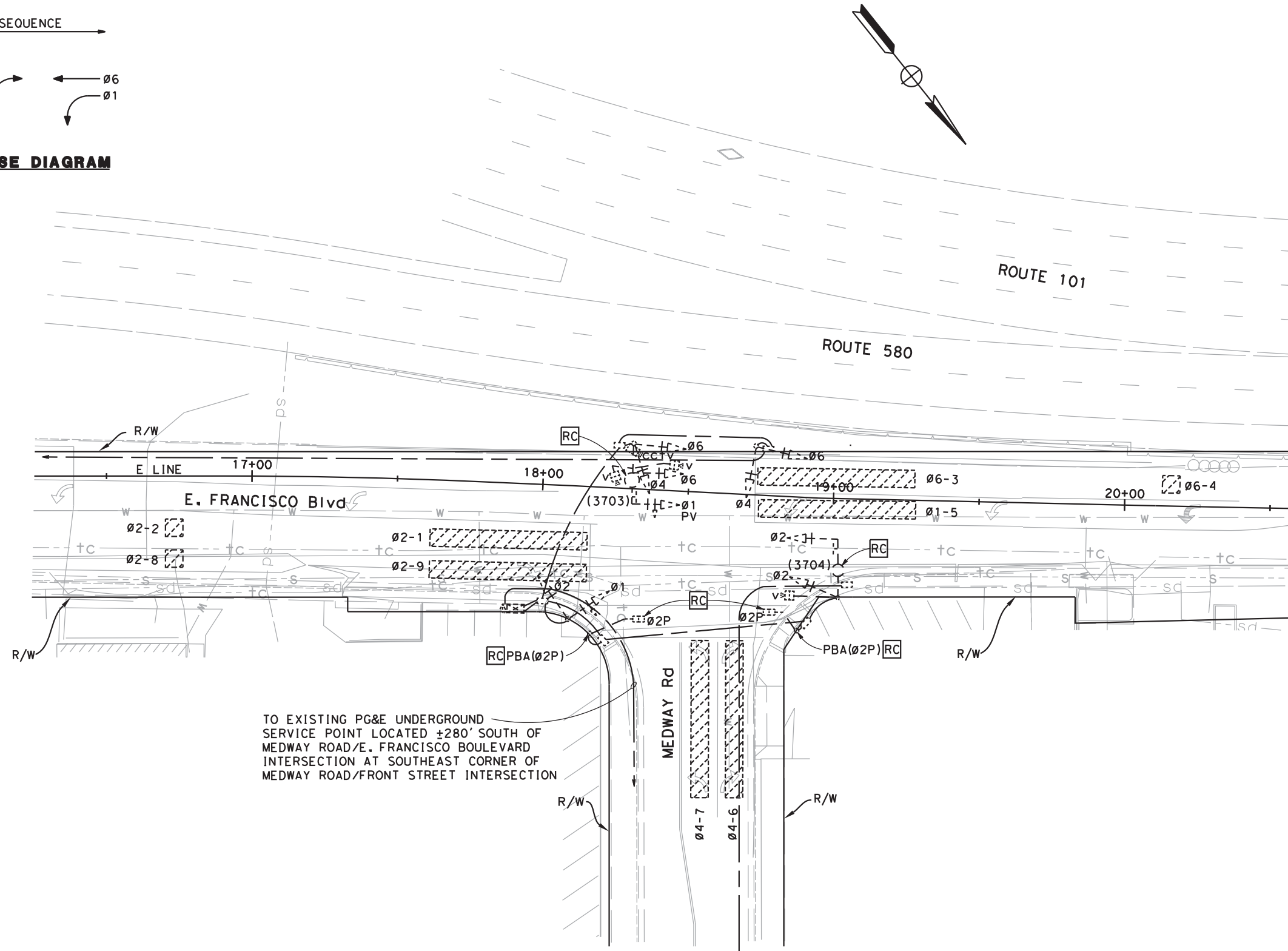
DESIGNED BY		NO. REVISION		DATE	
DRAWN BY		CHECKED BY		DATE	
APPROVED BY		DATE			
PROJECT NAME					
EAST FRANCISCO BLVD -					
FROM VIVIAN ST. TO GRAND AVE. BRIDGE					
DRAWING NAME					
STREET LIGHTING					
SAN RAFAEL COUNTY OF MARIN CALIFORNIA					
Y&C TRANSPORTATION CONSULTANTS, INC.					
3260 RAMOS CIRCLE SAN RAFAEL, CA 94927 (916) 366-8000 FAX: (916) 366-8008					
CITY OF SAN RAFAEL					
DEPARTMENT OF PUBLIC WORKS					
SCALE AS NOTED					
DATE 5/21/19					
PROJECT NO. 11114					
SHEET NO. E-4					
DRAWING 57 OF 66					

NOTE:

1. SEE SHEET E-1 FOR GENERAL NOTES, LEGEND, AND ABBREVIATION.

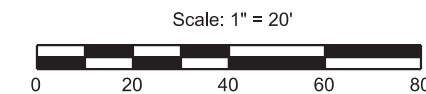


EXISTING PHASE DIAGRAM



EXISTING SIGNAL AND LIGHTING

APPROVED FOR ELECTRICAL WORK ONLY



DESIGNED	NO. REVISION	BY	DATE
DRY			
DRAWN			
CHECKED			
APPROVED			

PROJECT NAME
EAST FRANCISCO BLVD.
FROM VIVIAN ST. TO GRAND AVE. BRIDGE

DRAWING NAME
SIGNAL AND LIGHTING

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

Y & C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SAN RAFAEL, CA 94927
(916) 366-8000 FAX: (916) 366-8008

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

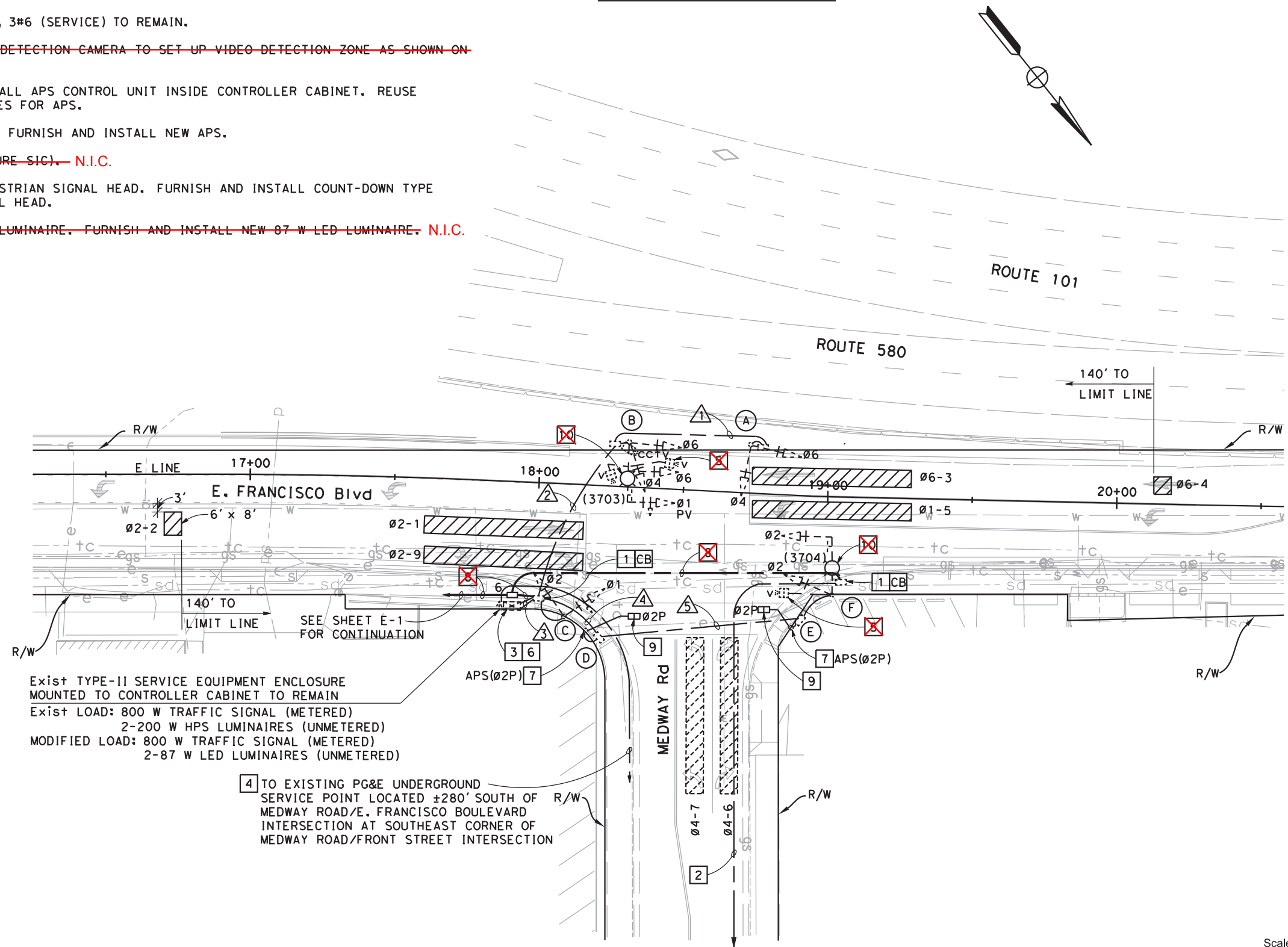
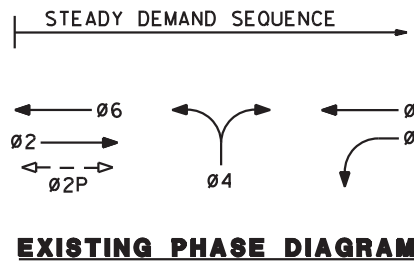
SCALE AS NOTED
DATE 5/21/19
PROJECT NO. 11114
SHEET NO. E-5
DRAWING 58 OF 66

NOTE:

1. SEE SHEET E-1 FOR GENERAL NOTES, LEGEND, AND ABBREVIATION.

PROJECT NOTES: (FOR THIS SHEET ONLY)

- 1 ADJUST EXISTING PULL BOX TO FINAL GRADE.
- 2 EXISTING 4"C, PT TO REMAIN.
- 3 EXISTING TYPE ASC/2 CONTROLLER WITH TYPE P CONTROLLER CABINET TO REMAIN.
- 4 EXISTING 1 1/2"C, 3#6 (SERVICE) TO REMAIN.
- ~~5 REPROGRAM VIDEO DETECTION CAMERA TO SET UP VIDEO DETECTION ZONE AS SHOWN ON THE PLAN. N.I.C.~~
- 6 FURNISH AND INSTALL APS CONTROL UNIT INSIDE CONTROLLER CABINET. REUSE EXISTING PBA WIRES FOR APS.
- 7 RC EXISTING PBA. FURNISH AND INSTALL NEW APS.
- ~~8 3"C, PT (FOR FUTURE SIC). N.I.C.~~
- 9 RC EXISTING PEDESTRIAN SIGNAL HEAD. FURNISH AND INSTALL COUNT-DOWN TYPE PEDESTRIAN SIGNAL HEAD.
- ~~10 RC EXISTING HPS LUMINAIRE. FURNISH AND INSTALL NEW 87 W LED LUMINAIRE. N.I.C.~~

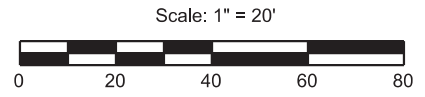


Exist TYPE-II SERVICE EQUIPMENT ENCLOSURE MOUNTED TO CONTROLLER CABINET TO REMAIN
 Exist LOAD: 800 W TRAFFIC SIGNAL (METERED)
 2-200 W HPS LUMINAIRES (UNMETERED)
 MODIFIED LOAD: 800 W TRAFFIC SIGNAL (METERED)
 2-87 W LED LUMINAIRES (UNMETERED)

4 TO EXISTING PG&E UNDERGROUND SERVICE POINT LOCATED ±280' SOUTH OF MEDWAY ROAD/E. FRANCISCO BOULEVARD INTERSECTION AT SOUTHEAST CORNER OF MEDWAY ROAD/Front STREET INTERSECTION



APPROVED FOR ELECTRICAL WORK ONLY



	DESIGNED	NO. REVISION	BY	DATE
	BYC			
	DRAWN			
	BYC			
	CHECKED			
	BYC			
	APPROVED			
	BYC			
PROJECT NAME				
EAST FRANCISCO BLVD -				
FROM VIVIAN ST. TO GRAND AVE. BRIDGE				
DRAWING NAME				
SIGNAL AND LIGHTING				
SAN RAFAEL COUNTY OF MARIN CALIFORNIA				
Y & C TRANSPORTATION CONSULTANTS, INC.				
3250 RAMOS CIRCLE SAN RAFAEL, CA 94927 (916) 366-8000 FAX: (916) 366-8008				
CITY OF SAN RAFAEL				
DEPARTMENT OF PUBLIC WORKS				
SCALE AS NOTED				
DATE 5/21/19				
PROJECT NO. 11114				
SHEET NO. E-6				
DRAWING 59 OF 66				

CONDUCTOR SCHEDULE						
AWG OR CABLE	DESIGNATION	CONDUIT RUN				
		1	2	3	4	5
No. 14	Ø1		3	6		
	Ø2			6	3	3
	Ø4	3	3	3		
	Ø6	3	3	3		
	Ø2P			2	2	2
	APS			2 ⁺	2 ⁺	2 ⁺
	SPARES	3	3	6	3	3
	TOTAL No. 14	9	12	28	10	10
No. 10	SIGNAL/LIGHT COMMON	1	1	2	1	1
	LIGHTING		1	2	1	1
	TOTAL No. 10	1	2	4	2	2
VIDEO IMAGE VEHICLE DETECTION SYSTEM CABLE	Ø2			1	1	1
	Ø4			1	1	
	Ø1 + Ø6			1	1	
	TOTAL			2	3	1
CCTV	CCTV		1	1		
CONDUIT SIZE		2"	2"	1-3/4"	3"	2"
CONDUIT FILL (%)		6	32	19	8	18
E = EXISTING		E	E	E	E	E

ALL CONDUCTORS, CABLES AND CONDUIT ARE EXISTING UNLESS OTHERWISE NOTED.
+ REUSE EXISTING PBA CONDUCTORS FOR APS.

POLE AND EQUIPMENT SCHEDULE											
LOCATION	STANDARD			VEHICLE SIGNAL MOUNTING		PED** SIGNAL MOUNTING	APS		LED LUMINAIRE (WATTS)	STREET NAME SIGN LEGEND	SPECIAL REQUIREMENT*
	TYPE	SIG. MA (FEET)	LUM. MA (FEET)	MAST ARM	POLE		Ø	ARROW			
(A)	EXISTING 1-A				TV-2-T						ALL EXISTING EQUIPMENT TO REMAIN.
(B)	EXISTING 17-3-80	20	12	MAS MAS	SV-2-TB				NEW 87	Medway Rd	SEE 10 ON SHEET E-6. ALL EXISTING EQUIPMENT TO REMAIN.
(C)	EXISTING 1-A				TV-2-T						ALL EXISTING EQUIPMENT TO REMAIN.
(D)	EXISTING 1-A					NEW TP-1-T	NEW 2P	←			SEE 7 AND 9 ON SHEET E-6.
(E)	EXISTING 1-A					NEW TP-1-T	NEW 2P	→			SEE 7 AND 9 ON SHEET E-6.
(F)	EXISTING 19-1-80	20	15	MAS	SV-1-T				NEW 87	Medway Rd	SEE 5 AND 10 ON SHEET E-6.

* OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS. FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN SIGNAL MOUNTING, SEE STANDARD PLANS.

** INSTALL COUNT-DOWN TYPE PEDESTRIAN SIGNAL HEAD.



CALL TWO WORKING DAYS BEFORE YOU DIG



DESIGNED	NO. REVISION	BY	DATE
DRAWN			
CHECKED			
APPROVED			

PROJECT NAME
EAST FRANCISCO BLVD.
FROM VIVIAN ST. TO GRAND AVE. BRIDGE
DRAWING NAME
SIGNAL AND LIGHTING
SAN RAFAEL COUNTY OF MARIN CALIFORNIA

Y & C TRANSPORTATION CONSULTANTS, INC.
3250 RAMOS CIRCLE
SAN RAFAEL, CA 94927
(916) 366-8000 FAX: (916) 366-8008

CITY OF SAN RAFAEL
DEPARTMENT OF PUBLIC WORKS

SCALE AS NOTED
DATE 5/21/19
PROJECT NO. 11114
SHEET NO. E-7
DRAWING 60 OF 66

CONSTRUCTION NOTES (SHEETS L-1 THROUGH L-7 ONLY)

- 1 FURNISH AND INSTALL 3'x5' TREE GRATE WITH 6" CONCRETE CURB PER DETAIL (L-7) AND (L-7).
- 2 FURNISH AND INSTALL ARBUTUS 'MARINA' (MARINA STRAWBERRY) TREE PER DETAILS (L-6) AND (L-6) SIZE SHALL BE 24" BOX (LOW WATER USE BY WULCOLS).
- 3 FURNISH AND INSTALL ULMUS PARVIFOLIA (CHINESE ELM) TREE PER DETAILS (L-6) AND (L-6) SIZE SHALL BE 24" BOX (LOW WATER USE BY WULCOLS).
- 4 FURNISH AND INSTALL PISTACHIA CHINENSIS(CHINESE PISTACHE) TREE PER DETAILS (L-6) AND (L-6) SIZE SHALL BE 24" BOX ((LOW WATER USE BY WULCOLS).
- 5 FURNISH AND INSTALL AUTOMATIC CONTROLLER WITH METAL PEDESTAL ENCLOSURE AND RAIN SHUT OFF DEVISE PER DETAIL (L-6).
- 6 (E) TREES TO REMAIN AND PROTECTED (L-7).
- 7 FURNISH AND INSTALL LEAD FREE BACKFLOW PREVENTER UNIT AND ENCLOSURE PER DETAIL (L-6).
- 8 REMOVE AND SALVAGE EX. BACKFLOW PREVENTOR UNIT. FURNISH AND INSTALL NEW LEAD FREE BACKFLOW PREVENTER UNIT IN EXISTING ENCLOSURE PER DETAIL (L-6).
- 9 INSTALL IRRIGATION MAINLINE.
- 10 INSTALL IRRIGATION LATERAL LINE.

NOTE:

- CONTRACTOR TO REPLACE PROPOSED STREET TREES LISTED ABOVE WITH THE FOLLOWING SMALLER SPECIES WHEN NEW TREE HAPPENS TO BE LOCATED LESS THAN 5 FEET FROM WATER, TELEPHONE AND ELECTRICAL LINES, AND 8 FEET FROM SANITARY SEWER, GAS, AND STORMWATER LINES. COORDINATE WITH THE CITY REPRESENTATIVES FOR THE SUBSTITUTION OF TREE.
- CONTRACTOR TO PLANT EACH SUBSTITUTION TREE AS A GROUP (MINIMUM TWO SAME SPECIES IN ROW) ALONG FRANCISCO BLVD EAST. COORDINATE WITH THE CITY REPRESENTATIVES.
- INSTALL UTILITY BARRIER AS NEEDED PER THE DIRECTION OF THE CITY REPRESENTATIVES. REFER TO DETAIL (L-7).

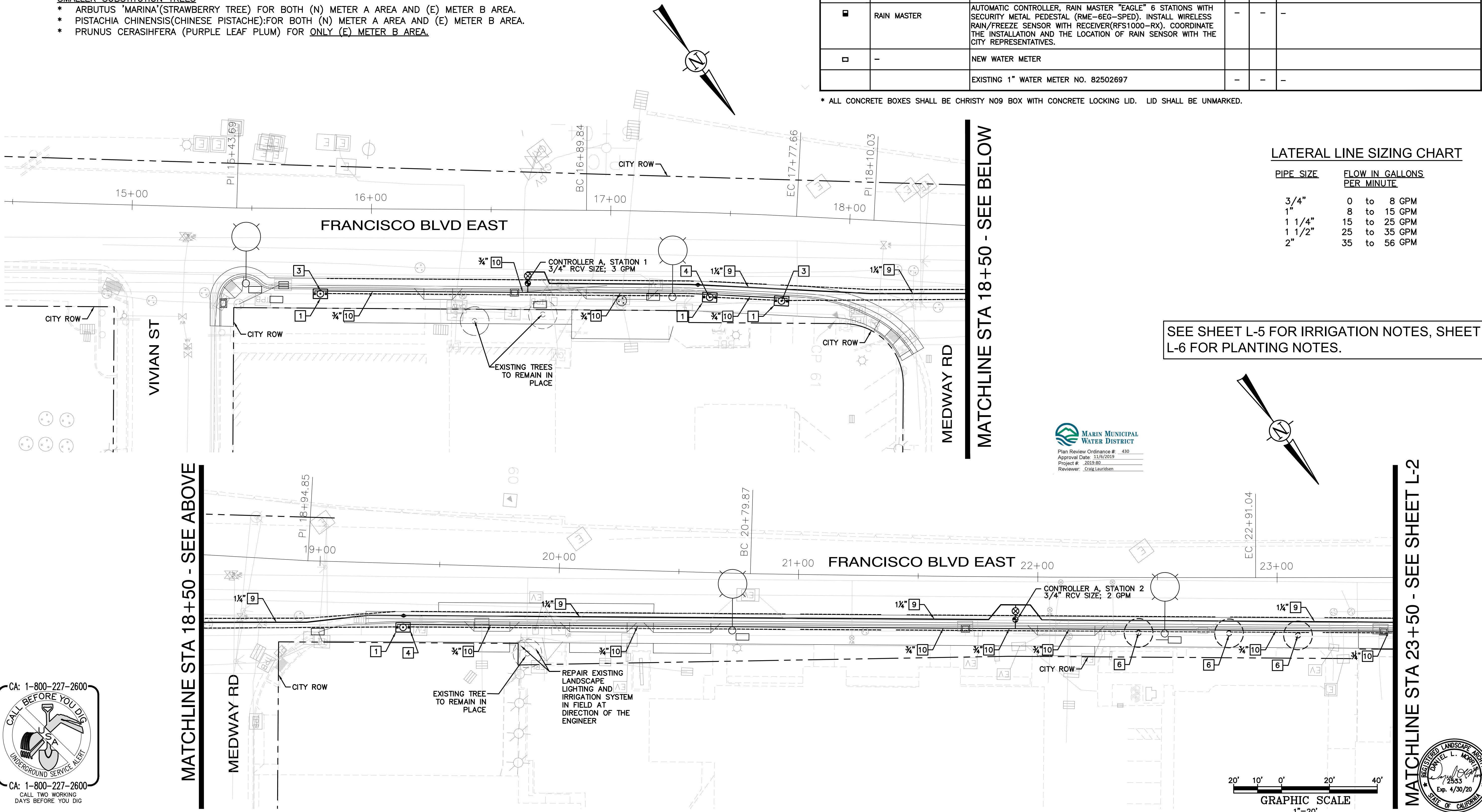
SMALLER SUBSTITUTION TREES

- * ARBUTUS 'MARINA'(STRAWBERRY TREE) FOR BOTH (N) METER A AREA AND (E) METER B AREA.
- * PISTACHIA CHINENSIS(CHINESE PISTACHE):FOR BOTH (N) METER A AREA AND (E) METER B AREA.
- * PRUNUS CERASIFERA (PURPLE LEAF PLUM) FOR ONLY (E) METER B AREA.

LEGEND (SHEETS L-1 THROUGH L-7 ONLY)

SYMBOL	MODEL #	DESCRIPTION	PSI	GPM	NOTES
■	RWS-BCG02 1402	RAINBIRD ROOT WATERING SYSTEM AND RAINBIRD PRESS. COMP. BUBBLER (TREES)	30	.5	INSTALL PER (L-6)
◆	33DNP	RAINBIRD 3/4" QUICK COUPLER BRASS VALVE (INSTALL IN CONCRETE BOX)*	-	-	INSTALL PER (L-6) & (L-6)
●	950-DW	SUPERIOR REMOTE CONTROL BRASS ELECTRIC VALVE (INSTALL IN CONCRETE BOX)*	-	-	INSTALL PER (L-6) & (L-6)
—	-	MAIN LINE: SCHEDULE 40 PVC SOLVENT WELD PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS.	-	-	PROVIDE 18" COVER. INSTALL CONTINUOUS TRACER WIRE (BARE 12 GA.) OVER TOP OF MAINLINE.
—	-	LATERAL LINE: SCHEDULE 40 PVC SOLVENT WELD PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS.	-	-	PROVIDE 12" COVER.
----	-	EXISTING MAINLINE	-	-	-
----	-	4" DIAMETER SLEEVE: 1120-200 PSI PVC PLASTIC PIPE	-	-	-
○	-	PROPOSED TREE	-	-	-
⊗	-	NIBCO BALL VALVE (BRASS BODY) INSTALL AS ISOLATION VALVE FOR EACH CONTROL VALVE.(INSTALL IN CONCRETE BOX)*	-	-	INSTALL PER (L-6)
■	WATTS 25AUB OR WILKINS 600 SERIES	PRESSURE REGULATOR (TO BE INSTALLED ON REDUCED PRESSURE BACKFLOW ASSEMBLY, SEE DETAIL ON SHEET L-6)	-	-	-
■	FEBCO LF825Y	LEAD FREE REDUCED PRESSURE BACKFLOW ASSEMBLY	-	-	-
■	RAIN MASTER	AUTOMATIC CONTROLLER, RAIN MASTER "EAGLE" 6 STATIONS WITH SECURITY METAL PEDESTAL (RME-6EG-SPED). INSTALL WIRELESS RAIN/FREEZE SENSOR WITH RECEIVER(RFS1000-RX). COORDINATE THE INSTALLATION AND THE LOCATION OF RAIN SENSOR WITH THE CITY REPRESENTATIVES.	-	-	-
□	-	NEW WATER METER	-	-	-
□	-	EXISTING 1" WATER METER NO. 82502697	-	-	-

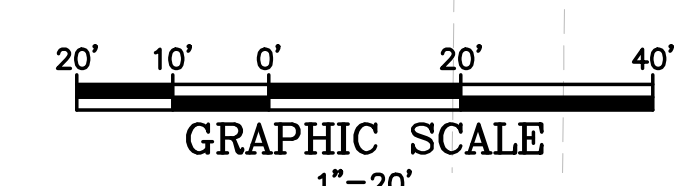
* ALL CONCRETE BOXES SHALL BE CHRISTY N09 BOX WITH CONCRETE LOCKING LID. LID SHALL BE UNMARKED.



LATERAL LINE SIZING CHART

PIPE SIZE	FLOW IN GALLONS PER MINUTE
3/4"	0 to 8 GPM
1"	8 to 15 GPM
1 1/4"	15 to 25 GPM
1 1/2"	25 to 35 GPM
2"	35 to 56 GPM

SEE SHEET L-5 FOR IRRIGATION NOTES, SHEET L-6 FOR PLANTING NOTES.

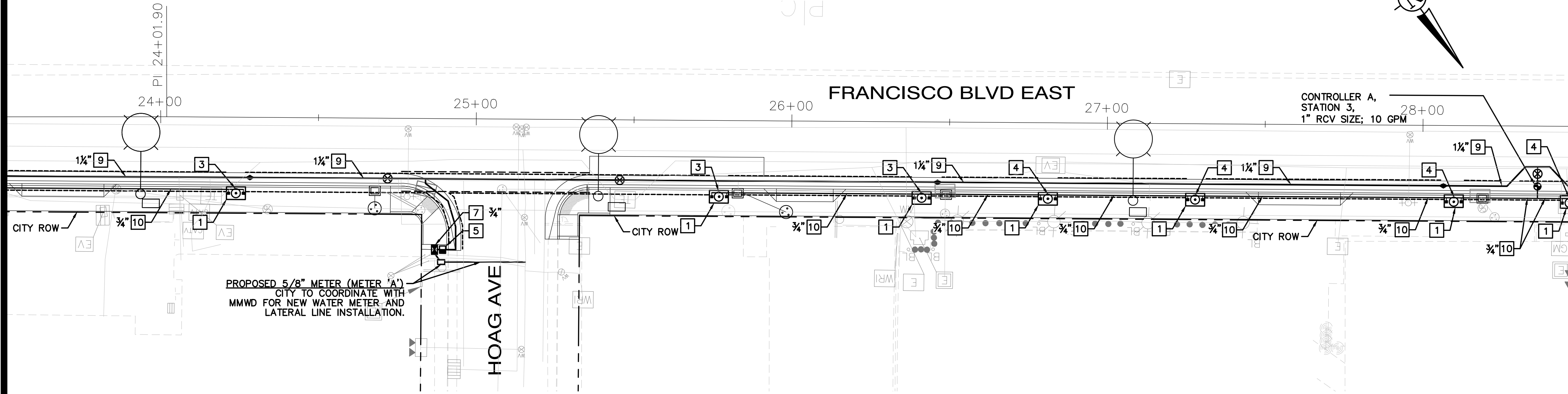


MATCHLINE STA 18+50 - SEE ABOVE

MATCHLINE STA 23+50 - SEE SHEET L-2

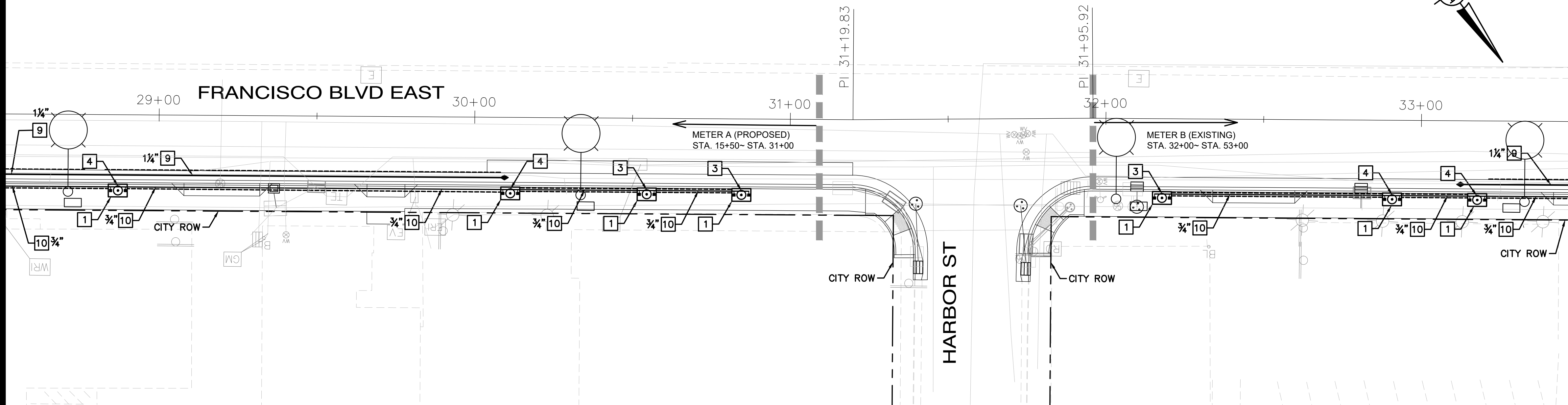
<p>PROJECT NAME FRANCISCO BLVD. EAST FROM VIVIAN ST. TO GRAND AVE. BRIDGE</p> <p>DRAWING NAME PLANTING AND IRRIGATION PLAN</p> <p>SAN RAFAEL COUNTY OF MARIN CALIFORNIA</p>	<p>DESIGNED BY STOHLER DRAWN BY JOHNSON</p> <p>CHECKED BY MORRIS</p> <p>APPROVED BY</p>	<p>DATE</p> <p>REVISION</p> <p>NO.</p>	<p>DATE</p> <p>DATE</p>
<p>249 Front Street San Francisco, CA 94111 P: 415.291.8900 F: 415.291.9463 www.morris-landscape.com</p>		<p>CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS</p>	
<p>SCALE 1" = 20'</p> <p>DATE October 2019</p> <p>PROJECT NO. 11114</p> <p>SHEET NO. L-1</p> <p>DRAWING 61 OF 67</p>			

MATCHLINE STA 23+50 - SEE SHEET L-1



MATCHLINE STA 28+50 - SEE BELOW

MATCHLINE STA 28+50 - SEE ABOVE

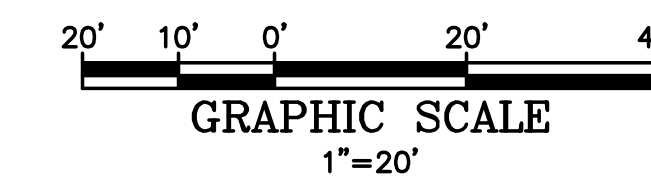


MATCHLINE STA 33+50 - SEE SHEET L-3

MARIN MUNICIPAL WATER DISTRICT
 Plan Review Ordinance # 430
 Approval Date: 11/05/2019
 Project #: 2019-80
 Reviewer: Craig Lauridsen

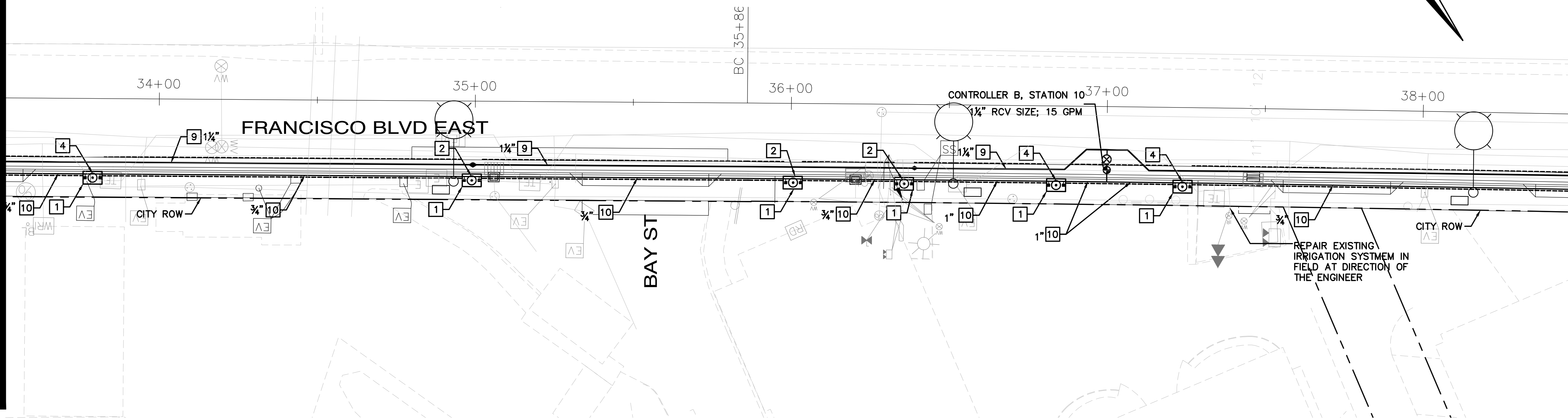


SEE SHEET L-1 FOR PLANTING LEGEND AND IRRIGATION LEGEND, SHEET L-5 FOR IRRIGATION NOTES, SHEET L-6 FOR PLANTING NOTES AND SHEET L-6 AND L-7 FOR DETAILS.



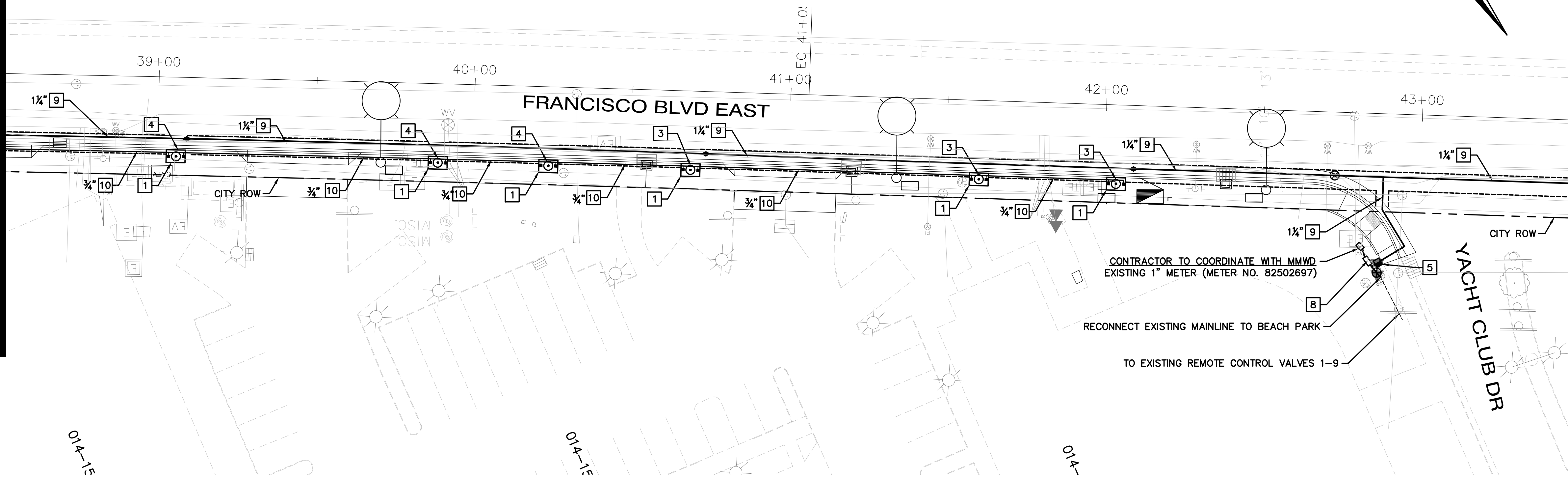
CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS		Morris Landscape Architects & Planners		249 Front Street San Francisco, CA 94111 P: 415.291.8900 F: 415.291.9463 www.morris-landscape.com	
PROJECT NAME FRANCISCO BLVD. EAST FROM VIVIAN ST. TO GRAND AVE. BRIDGE	DRAWING NAME PLANTING AND IRRIGATION PLAN	PROJECT NO. 11114	SHEET NO. L-2	DRAWING NO. 62 OF 67	SCALE 1" = 20' DATE October 2019
DESIGNED STOHLEH	CHECKED MORRIS	NO.	REVISION	BY	DATE
PROJECT NAME FRANCISCO BLVD. EAST FROM VIVIAN ST. TO GRAND AVE. BRIDGE	DRAWING NAME PLANTING AND IRRIGATION PLAN	PROJECT NO. 11114	SHEET NO. L-2	DRAWING NO. 62 OF 67	SCALE 1" = 20' DATE October 2019
PROJECT NAME FRANCISCO BLVD. EAST FROM VIVIAN ST. TO GRAND AVE. BRIDGE	DRAWING NAME PLANTING AND IRRIGATION PLAN	PROJECT NO. 11114	SHEET NO. L-2	DRAWING NO. 62 OF 67	SCALE 1" = 20' DATE October 2019

MATCHLINE STA 33+50 - SEE SHEET L-2



MATCHLINE STA 38+50 - SEE BELOW

MATCHLINE STA 38+50 - SEE ABOVE

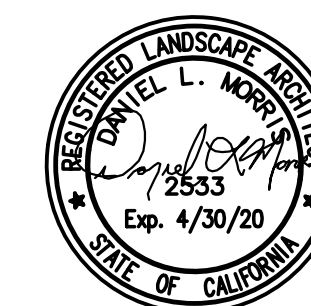
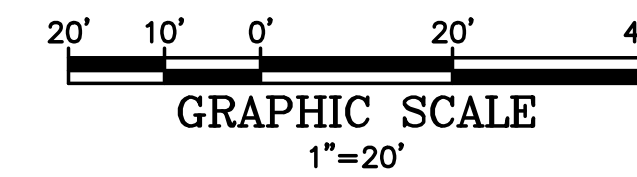


MATCHLINE STA 43+50 - SEE SHEET L-4

MARIN MUNICIPAL WATER DISTRICT
 Plan Review Ordinance # 430
 Approval Date: 11/05/2019
 Project # 2019-30
 Reviewer: Craig Lauridsen



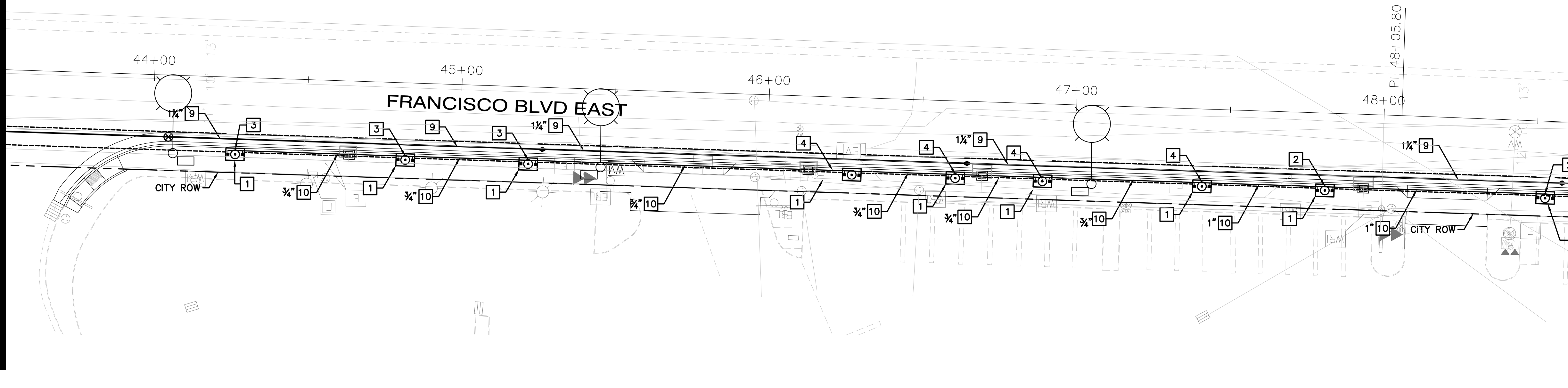
SEE SHEET L-1 FOR PLANTING LEGEND AND IRRIGATION LEGEND, SHEET L-5 FOR IRRIGATION NOTES, SHEET L-6 FOR PLANTING NOTES AND SHEET L-6 AND L-7 FOR DETAILS.



CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS		Morris Landscape Architects & Planners 249 Front Street San Francisco, CA 94111 P: 415.291.8900 F: 415.291.9463 www.morrisllp.com		PROJECT NAME FRANCISCO BLVD. EAST FROM VIVIAN ST. TO GRAND AVE. BRIDGE	DESIGNED BY STOHLER	NO.	REVISION	BY	DATE
DRAWING NAME PLANTING AND IRRIGATION PLAN		PROJECT NO. 11114		CHECKED BY MORRIS	DATE	APPROVED	DATE	COUNTY OF MARIN	CALIFORNIA
SAN RAFAEL		COUNTY OF MARIN		CALIFORNIA		DATE		DATE	

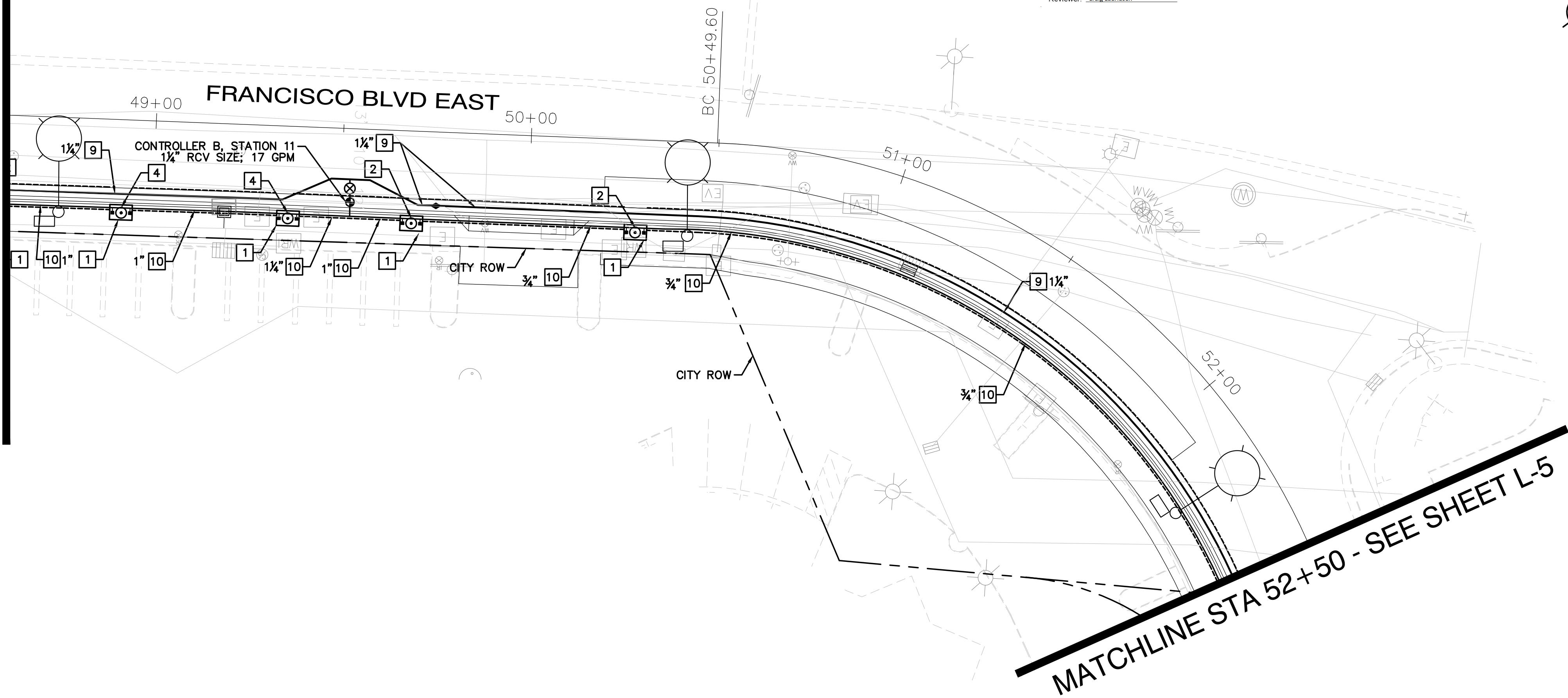
SCALE 1" = 20'
 DATE October 2019
 PROJECT NO. 11114
 SHEET NO. L-3
 DRAWING 63 OF 67

MATCHLINE STA 43+50 - SEE SHEET L-3



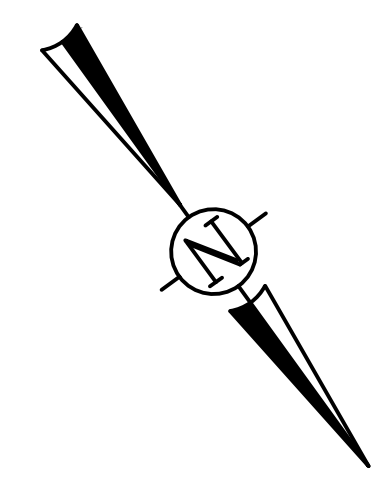
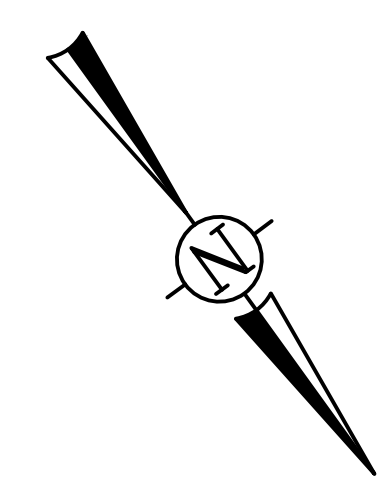
MATCHLINE STA 48+60 - SEE BELOW

MATCHLINE STA 48+60 - SEE ABOVE

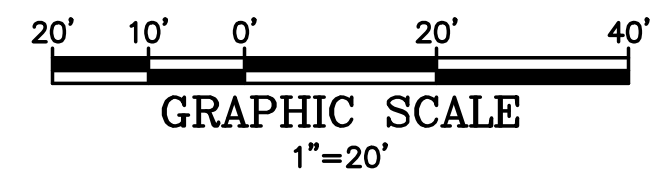


MATCHLINE STA 52+50 - SEE SHEET L-5

MARIN MUNICIPAL WATER DISTRICT
 Plan Review Ordinance # 430
 Approval Date: 11/6/2019
 Project #: 2019-80
 Reviewer: Craig Lauridsen

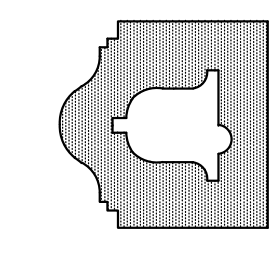


SEE SHEET L-1 FOR PLANTING LEGEND AND IRRIGATION LEGEND, SHEET L-5 FOR IRRIGATION NOTES, SHEET L-6 FOR PLANTING NOTES AND SHEET L-6 AND L-7 FOR DETAILS.



PROJECT NAME FRANCISCO BLVD. EAST FROM VIVIAN ST. TO GRAND AVE. BRIDGE		DESIGNED STOHLER	NO.	REVISION	BY	DATE
DRAWING NAME PLANTING AND IRRIGATION PLAN		CHECKED MORRIS	DATE	DATE	DATE	DATE
PROJECT NAME FRANCISCO BLVD. EAST FROM VIVIAN ST. TO GRAND AVE. BRIDGE		COUNTY OF MARIN CALIFORNIA	DATE	DATE	DATE	DATE

CITY OF SAN RAFAEL
 DEPARTMENT OF PUBLIC WORKS



Morris
 Landscape Architects & Planners
 249 Front Street
 San Francisco, CA
 94111
 P: 415.291.8900
 F: 415.291.9463
 www.morris-landscape.com

SCALE 1" = 20'
 DATE October 2019
 PROJECT NO. 11114
 SHEET NO. L-4
 DRAWING 64 OF 67

Oct 18, 2019 - 9:51am - US28 - Highways
 P:\PROJECTS\1607 Francisco Blvd - sidewalk Improvement\Drawings\Landscape\1 - Irrigation-Planting Design.dwg

HYDROZONE TABLE - METER 'B'

(EXISTING METER 82502697)

HYDROZONE CALCULATION

VALVE	PLANT TYPE	IRRIG. METHOD	GALLONS PER MINUTE	AREA (Sq. Ft.)	% OF TOTAL LANDSCAPE
1 (EXISTING)	L.W.	BUBBLER	37.4	351	16.3
2 (EXISTING)	L.W.	BUBBLER	47.6	257	12.0
3 (EXISTING)	NONE.	OUT OF SERVICE	0	0	0.0
4 (EXISTING)	L.W.	BUBBLER	17.0	95	4.4
5 (EXISTING)	NONE.	OUT OF SERVICE	0	0	0.0
6 (EXISTING)	L.W.	BUBBLER	35.7	325	15.1
7 (EXISTING)	NONE.	OUT OF SERVICE	0	0	0.0
8 (EXISTING)	L.W.	BUBBLER	34.0	315	14.7
9 (EXISTING)	L.W.	BUBBLER	39.1	355	16.5
10 (NEW)	L.W.	TREE BUBBLER	15.0	225	10.5
11 (NEW)	L.W.	TREE BUBBLER	15.0	225	10.5
				2,148	100

L.W. = LOW WATER USE PLANTS BY WULCOLS
H.W. = HIGH WATER USE PLANTS BY WULCOLS

HYDROZONE CALCULATION SUMMARY (PER. P.O.C.)

HYDROZONE DESCRIPTION	TOTAL SQ. FT.	% OF LANDSCAPE
1. LOW WATER USE PLANTS	2,148	100.0
	2,148	100.0

(NEW, 450 SQFT, 21.0%)

HYDROZONE TABLE - METER 'A'

(NEW METER)

HYDROZONE CALCULATION

VALVE	PLANT TYPE	IRRIG. METHOD	GALLONS PER MINUTE	AREA (Sq. Ft.)	% OF TOTAL LANDSCAPE
1	L.W.	TREE BUBBLER	3.0	45	20.0
2	L.W.	TREE BUBBLER	2.0	30	13.3
3	L.W.	TREE BUBBLER	10.0	150	66.7
				225	100.0

L.W. = LOW WATER USE PLANTS BY WULCOLS

HYDROZONE CALCULATION SUMMARY (PER. P.O.C.)

HYDROZONE DESCRIPTION	TOTAL SQ. FT.	% OF LANDSCAPE
1. LOW WATER USE PLANTS	225	100
	225	100

MAXIMUM APPLIED WATER ALLOWANCE(MAWA) AND ESTIMATED TOTAL WATER USE(ETWU)-METER 'A' (NEW)

Maximum Applied Water Allowance

Enter Zip Code 37.33 Residential? No

Enter Project Information

Project Name:	Francisco Blvd East
Address:	From Vivian St. to Grand Ave. BRIDGE
Meter Number:	New Meter
Location/Sheet No.	The corner of Francisco Blvd East and Hoga Ave. Sheet L-2
Date:	10/18/2019

Maximum Applied Water Allowance (MAWA)

Landscaped Area: sqft

Special Landscaped Area: sqft

MAWA = CCF

Estimated Total Water Use (ETWU)

Low water use plant sqft

Moderate water use plant sqft

High water use plant sqft

Efficiency Factor

% of Total Landscape Irrigated with Drip	Irrigation Efficiency Factor
0-33%	select 0.75
34-66%	select 0.80
67-100%	select 0.85

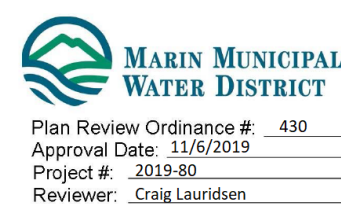
ETWU = CCF

Water Use Table

ETWU	Gallons:	1,496	CCF's:	2	AF:	0.00
Baseline Period	Jan/Feb	Mar/Apr	May/Jun	Jul/Aug	Sep/Oct	Nov/Dec
Baseline CCF's	0	0	1	1	0	0

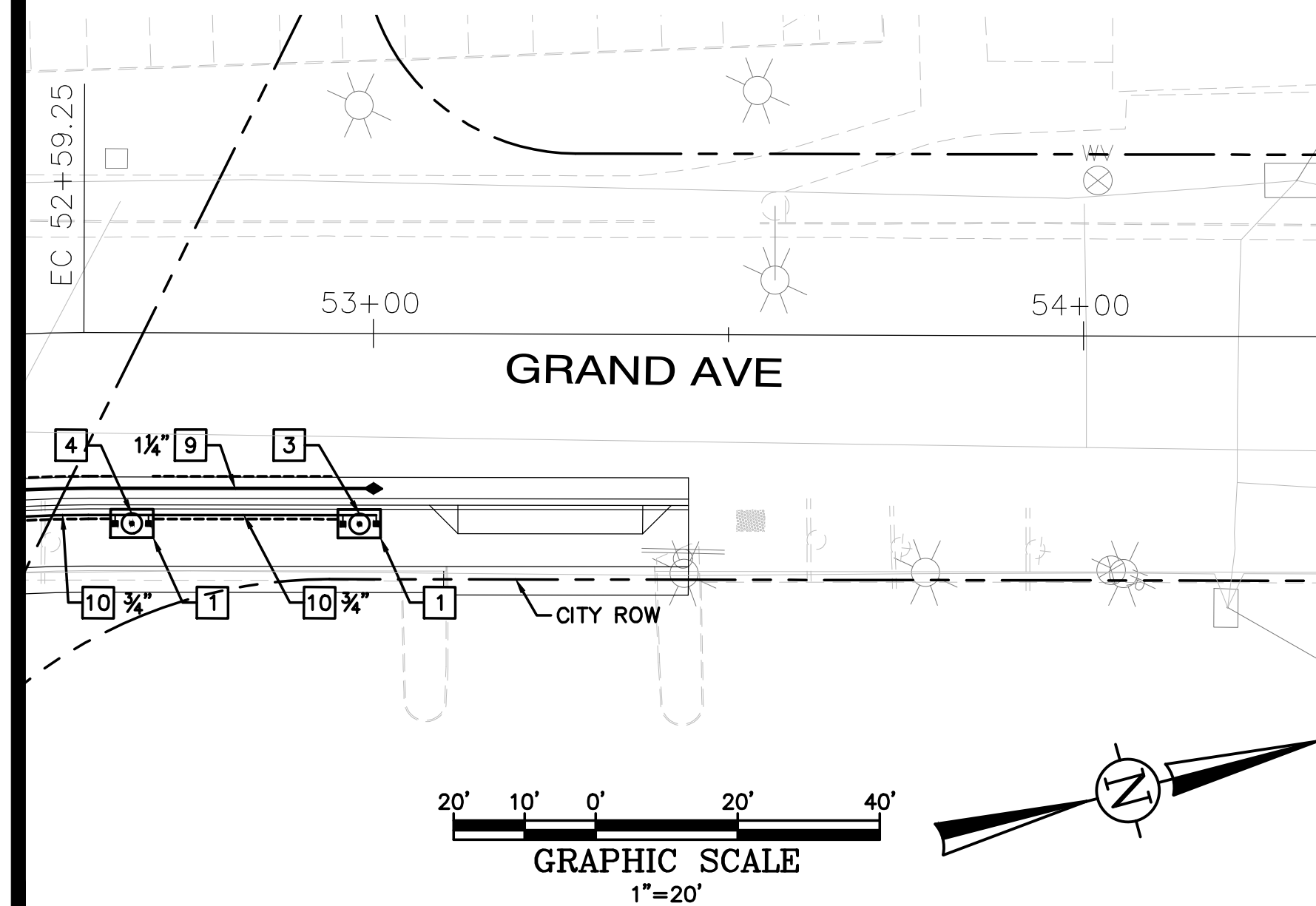
1 CCF = 748 Gallons; 1 AF = 435.6 CCF's

For more information please contact 415-945-1497 or see our website at www.marinwater.org 6/16



Plan Review Ordinance # 430
Approval Date: 11/6/2019
Project #: 2019-80
Reviewer: Craig Lundgren

MATCHLINE STA 52+50 - SEE SHEET L-4



IRRIGATION NOTES:

- CONTRACTOR SHALL REVIEW RELATED DRAWINGS AND SHALL ENSURE COORDINATION WITH ALL APPLICABLE TRADES PRIOR TO SUBMITTING BID.
- FINAL LOCATION OF IRRIGATION CONTROLLER AND WEATHER CENTER TO BE COORDINATED WITH THE CITY ENGINEER PRIOR TO INSTALLATION.
- THE IRRIGATION SYSTEM SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES BY LICENSED CONTRACTORS AND EXPERIENCED WORKMEN. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATING TO THIS WORK.
- THIS DESIGN IS DIAGRAMMATIC. PARALLEL PIPES MAY BE INSTALLED IN COMMON TRENCH. PIPES ARE NOT TO BE INSTALLED DIRECTLY ABOVE ONE ANOTHER.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC. CONTRACTOR SHALL COORDINATE WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND THE INSTALLATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, PAVING, STRUCTURES, ETC. CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO THE EXCAVATION OF TRENCHES. CONTRACTOR IS TO REPAIR ANY DAMAGE CAUSED BY HIS WORK AT NO ADDITIONAL COST.
- REMOTE CONTROL VALVES SHALL BE WIRED TO THE CONTROLLER IN SEQUENCE AS SHOWN ON THE PLANS. RUN WIRE FROM EACH RCV TO THE CONTROLLER. SPLICING WIRES TOGETHER OUTSIDE OF VALVE BOXES IS NOT PERMITTED.
- IDENTIFY ALL IRRIGATION VALVE BOXES WITH IDENTIFICATION TAGS. INSTALL TAGS ON ALL VALVES.
- LOCATE PIPE PARALLEL TO CURB.
- SPLICING OF 24-VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 36" COIL OF EXCESS WIRE AT EACH SPLICE AND 100 FEET ON CENTER ALONG WIRE RUN. TAPE WIRE IN BUNDLES 10 FEET ON CENTER. NO TAPING IS PERMITTED INSIDE THE SLEEVES.
- ALL MAIN LINES SHALL BE FLUSHED PRIOR TO THE INSTALLATION OF IRRIGATION HEADS. AT 30 DAYS AFTER INSTALLATION EACH SYSTEM SHALL BE FLUSHED TO ELIMINATE GLUE AND DIRT PARTICLES FROM THE LINES.
- RAINBIRD ROOT WATERING SYSTEM SHALL BE CUT SO IT DOES NOT EXTEND BELOW THE ROOT BALL.
- ALL EXCAVATIONS ARE TO BE FILLED WITH CLEAN COMPACTED BACKFILL (NO ROCKS OR DEBRIS). CONTRACTOR TO REPAIR ALL SETTLED TRENCHES PROMPTLY, FOR A PERIOD OF 1 YEAR AFTER COMPLETION OF WORK. ADDITIONALLY, CONTRACTOR SHALL WARRANT THAT THE IRRIGATION SYSTEM WILL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR AFTER FINAL ACCEPTANCE OF WORK.
- THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
- PROGRAMMING OF CONTROLLER SHALL BE COORDINATED WITH A CITY MAINTENANCE REPRESENTATIVE TO DETERMINE FLOW RATE, SINGLE OR MULTIPLE RUN TIMES, ETC.
- IRRIGATION CONTRACTOR TO NOTIFY ALL LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.
- CONTRACTOR SHALL WALK AND INSPECT ALL PLANTING AREAS PRIOR TO SCHEDULING OF THE IRRIGATION CONTROLLER TO OBSERVE SOIL MOISTURE CONDITIONS AND PLANT STRESS.
- THE DESIGN OF THIS IRRIGATION SYSTEM IS BASED ON THE EXISTING AND NEW WATER SERVICE PRESSURE OF 75 PSI STATIC PRESSURE AT POINT OF CONNECTION.

WORKING WATER PRESSURE WAS CALCULATED AT 30 PSI AFTER CONSERVATIVE ESTIMATE OF WORKING PRESSURE LOSS. WITH A WORKING WATER SUPPLY OF A MAXIMUM 13 GPM (NEW METER IRRIGATION SYSTEM) PER VALVE AND HEAD OPERATING PRESSURE OF 30-50 PSI. CONTRACTOR TO CONFIRM PRESSURE AT POINT OF CONNECTION PRIOR TO INSTALLING NEW SYSTEMS AND BRING ANY DISCREPANCIES TO THE ATTENTION OF OWNER'S REPRESENTATIVE..

MAXIMUM APPLIED WATER ALLOWANCE(MAWA) AND ESTIMATED TOTAL WATER USE(ETWU)-METER 'B' (EXISTING)

Maximum Applied Water Allowance

Enter Zip Code 37.33 Residential? No

Enter Project Information

Project Name:	Francisco Blvd East
Address:	From Vivian St. to Grand Ave. BRIDGE
Meter Number:	82502697
Location/Sheet No.	The corner of Francisco Blvd East and Yacht Dr. Sheet L-3
Date:	10/18/2019

Maximum Applied Water Allowance (MAWA)

Landscaped Area: sqft

Special Landscaped Area: sqft

MAWA = CCF

Estimated Total Water Use (ETWU)

Low water use plant sqft

Moderate water use plant sqft

High water use plant sqft

Efficiency Factor

% of Total Landscape Irrigated with Drip	Irrigation Efficiency Factor
0-33%	select 0.75
34-66%	select 0.80
67-100%	select 0.85

ETWU = CCF

Water Use Table

ETWU	Gallons:	17,204	CCF's:	23	AF:	0.05
Baseline Period	Jan/Feb	Mar/Apr	May/Jun	Jul/Aug	Sep/Oct	Nov/Dec
Baseline CCF's	0	0	1	1	0	0

1 CCF = 748 Gallons; 1 AF = 435.6 CCF's

For more information please contact 415-945-1497 or see our website at www.marinwater.org 6/16



CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

DESIGNED	STOHLER	DATE
DRAWN	JOHNSON	DATE
CHECKED	MORRIS	DATE
APPROVED		DATE

PROJECT NAME: FRANCISCO BLVD. EAST FROM VIVIAN ST. TO GRAND AVE. BRIDGE

DRAWING NAME: PLANTING AND IRRIGATION PLAN

SAN RAFAEL COUNTY OF MARIN CALIFORNIA

249 Front Street
San Francisco, CA 94111
P: 415.291.8900
F: 415.291.9463
www.merrill-morris.com

Merrill Morris
Landscape Architects & Planners

CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS

SCALE 1" = 20'

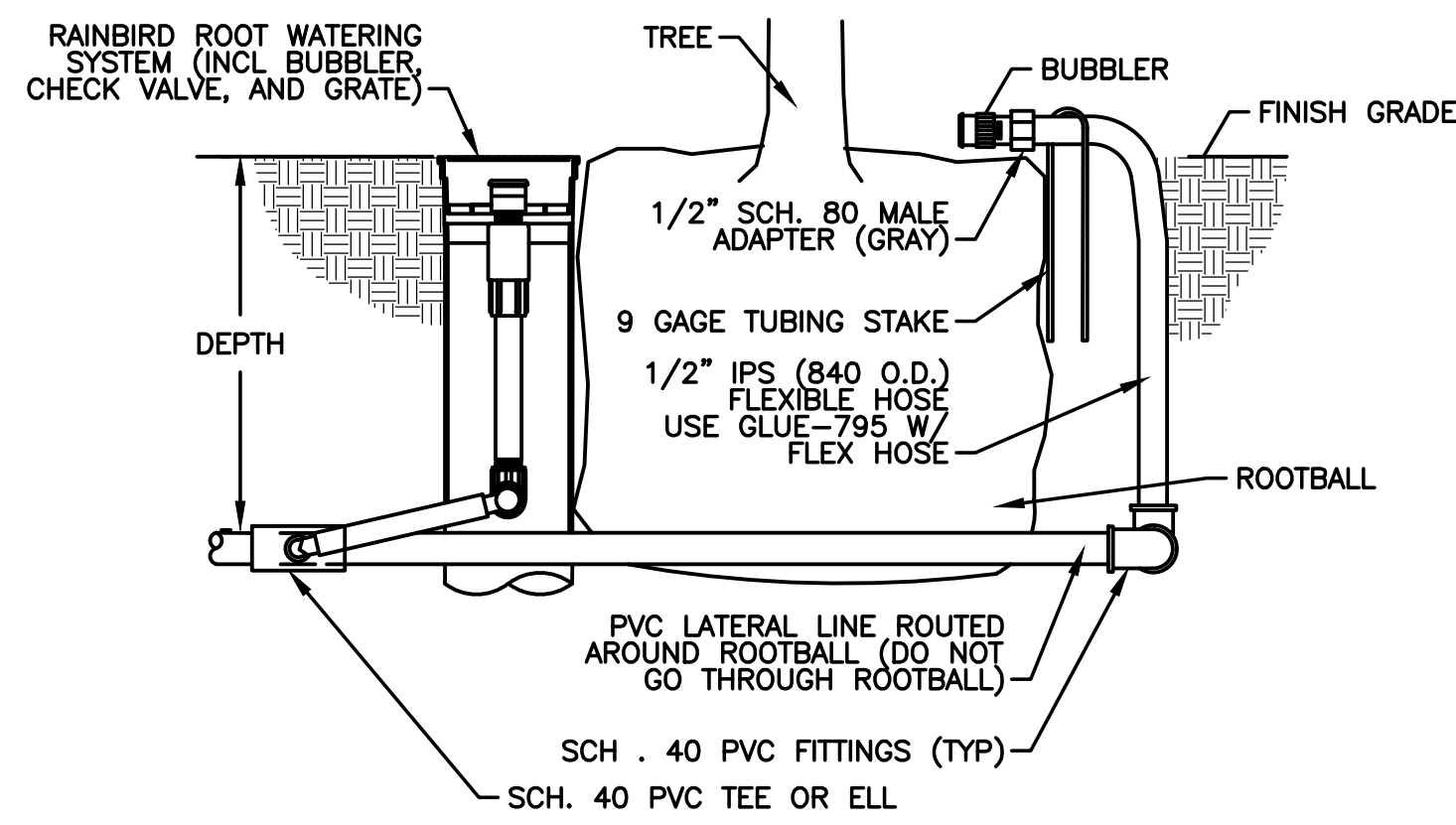
DATE: October 2019

PROJECT NO. 11114

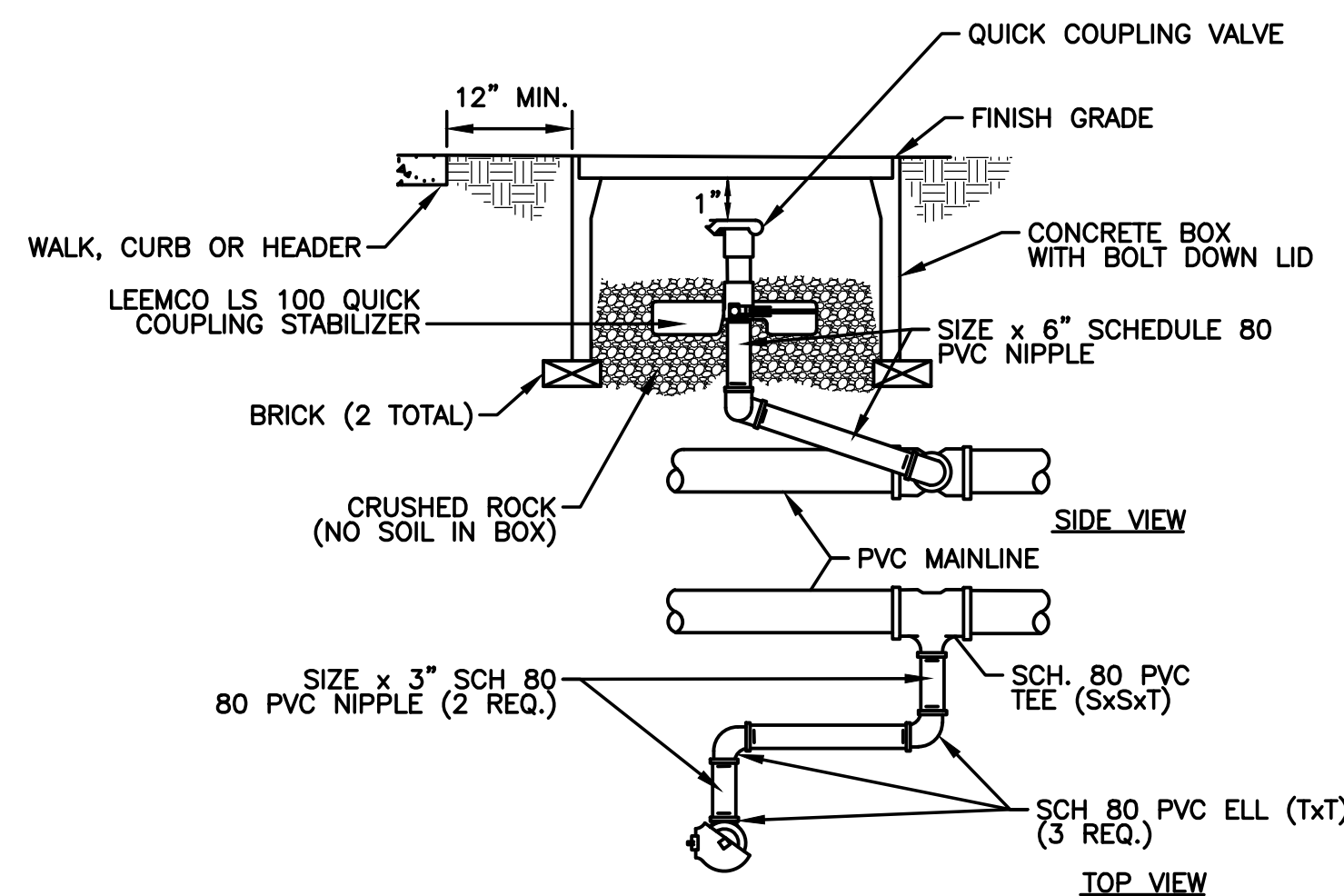
SHEET NO. L-5

DRAWING 65 OF 67

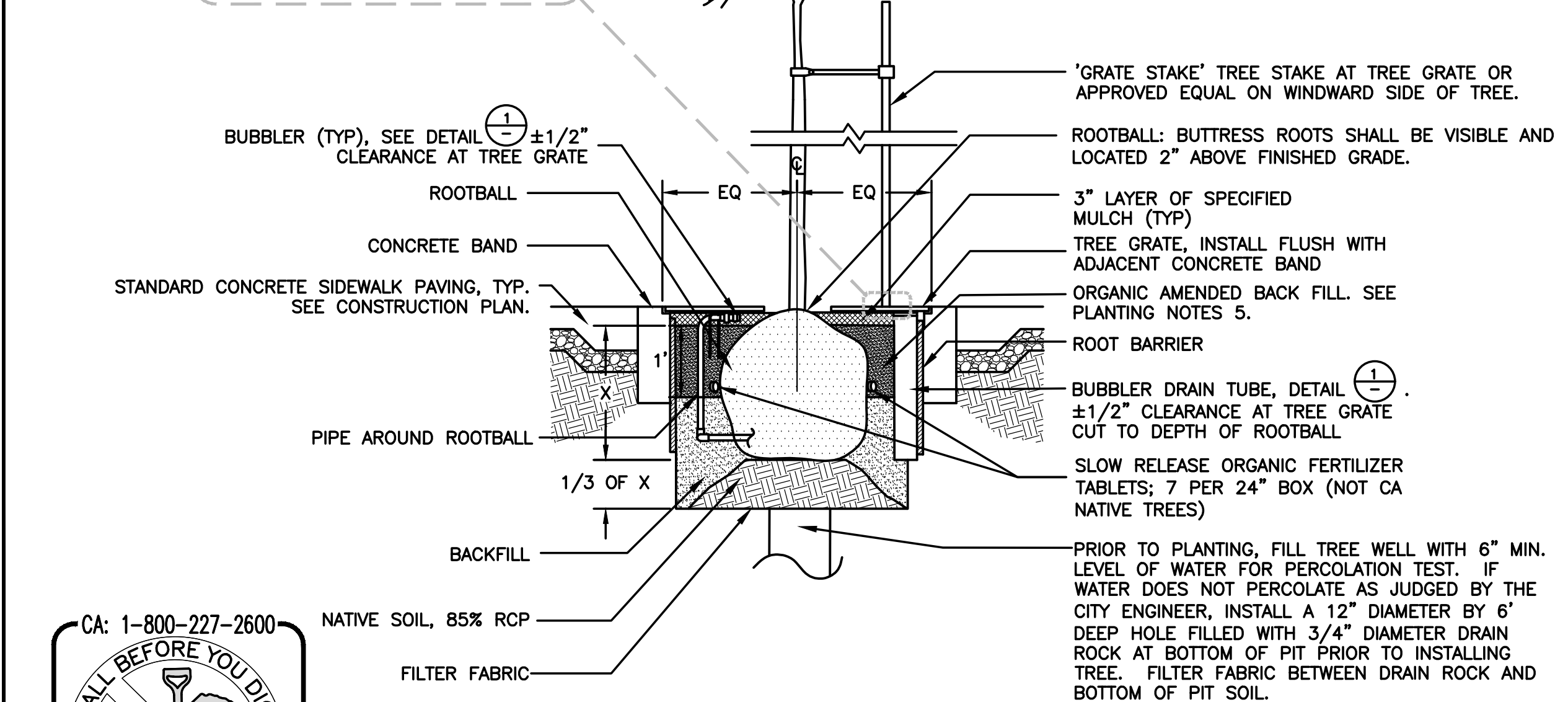




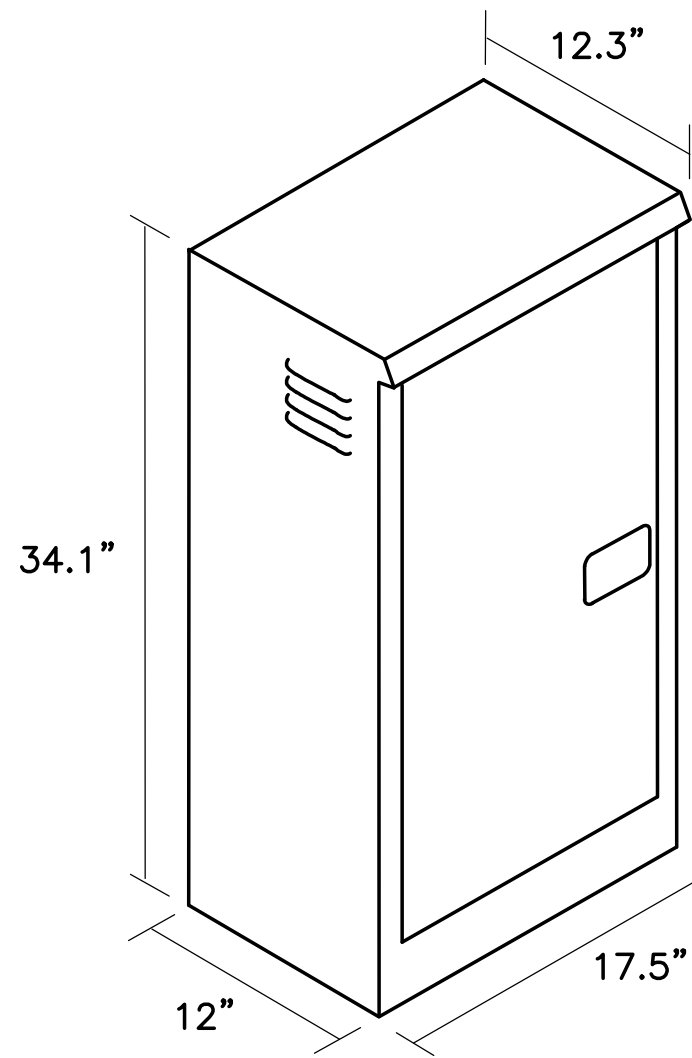
1 TREE BUBBLER DETAIL
NOT TO SCALE



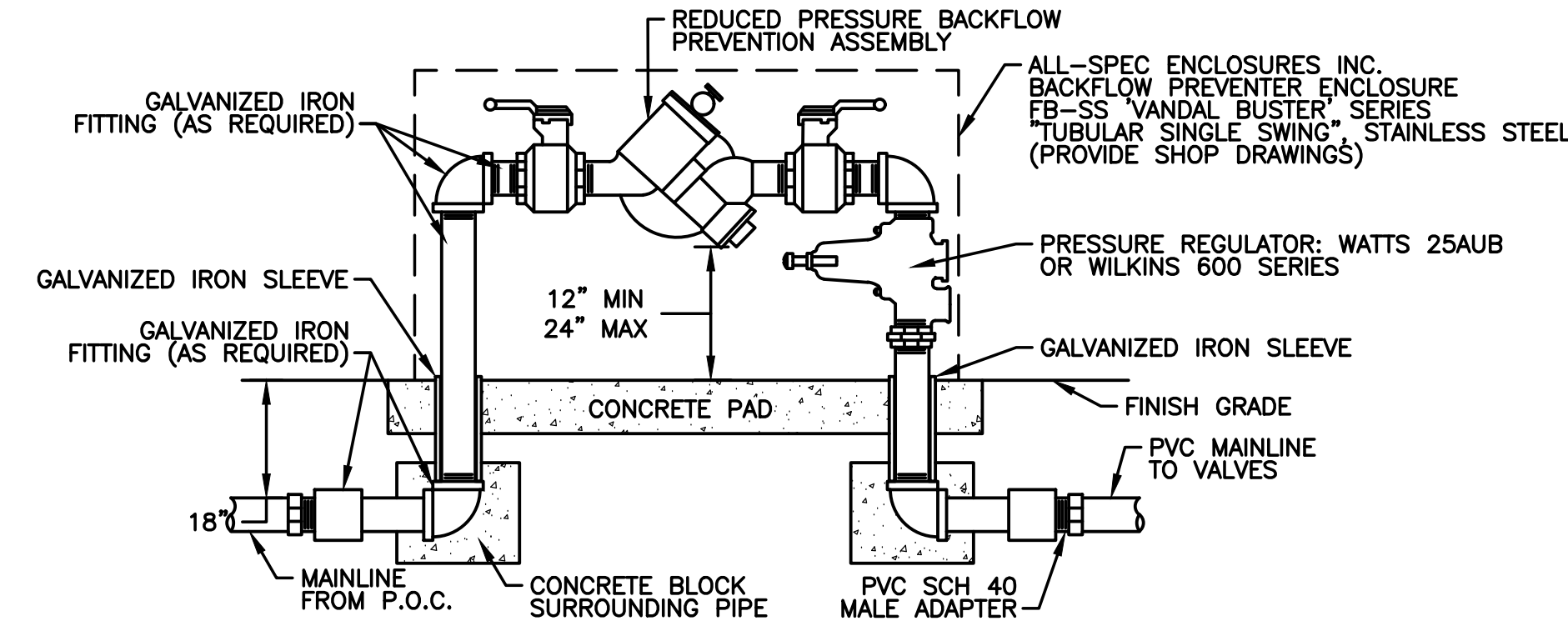
4 QUICK COUPLER IN BOX DETAIL
NOT TO SCALE



7 'TREE PLANTING AT GRATE' DETAIL
NOT TO SCALE



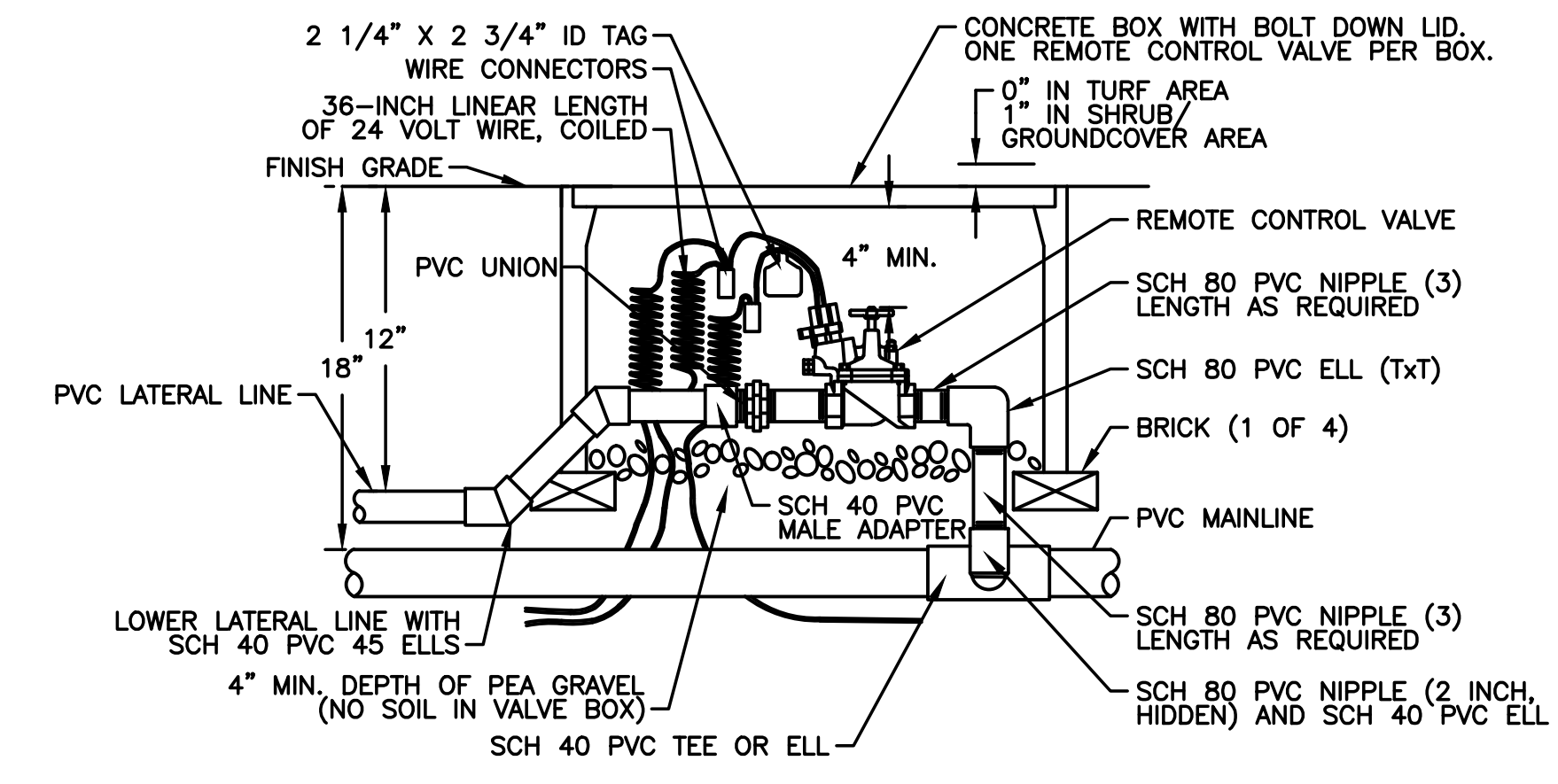
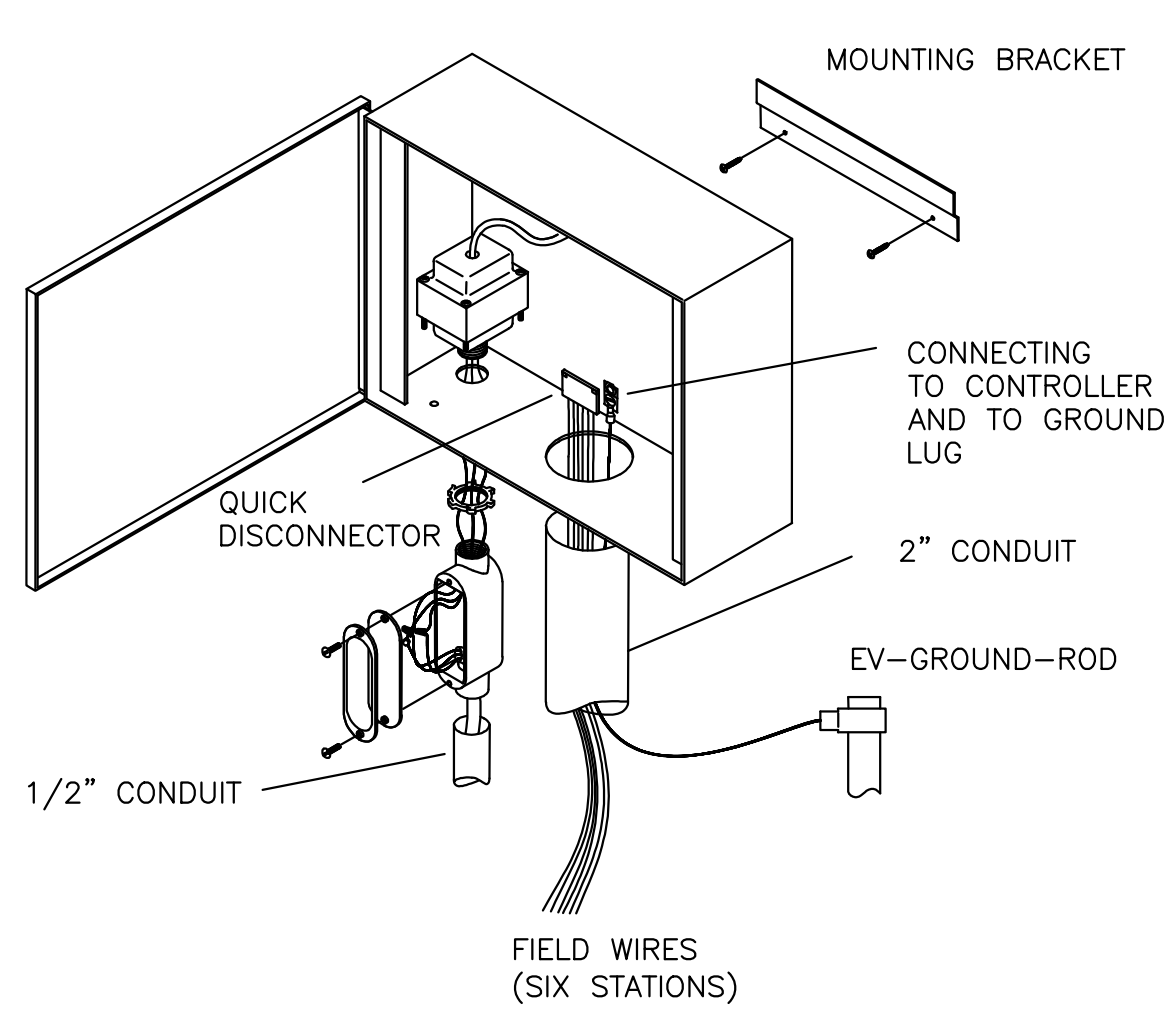
2 LIGHT ENERGIZED IRRIGATION CONTROLLER AND CABINET
NOT TO SCALE



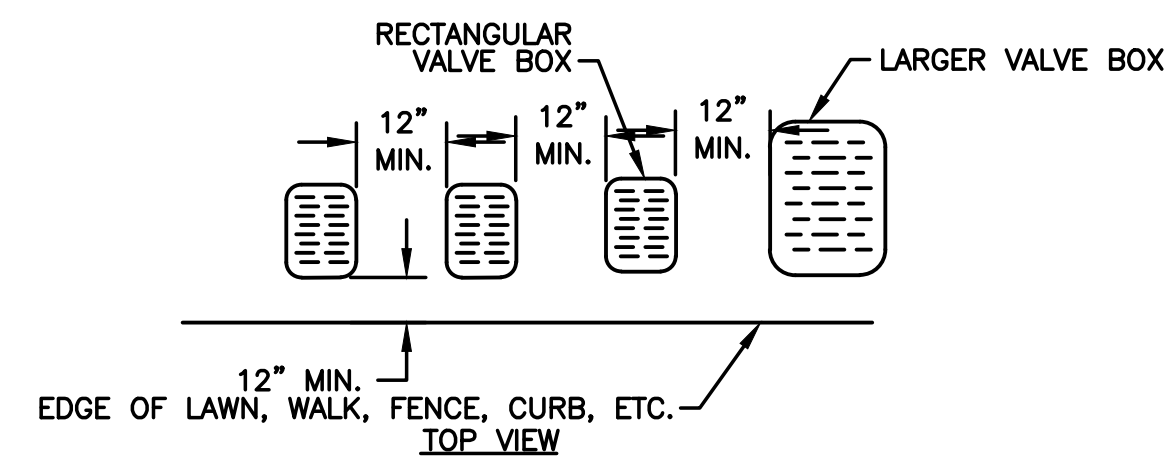
5 REDUCED PRESSURE BACKFLOW ASSEMBLY
NOT TO SCALE

PLANTING NOTES: (FOR USE WITH DETAIL 7)

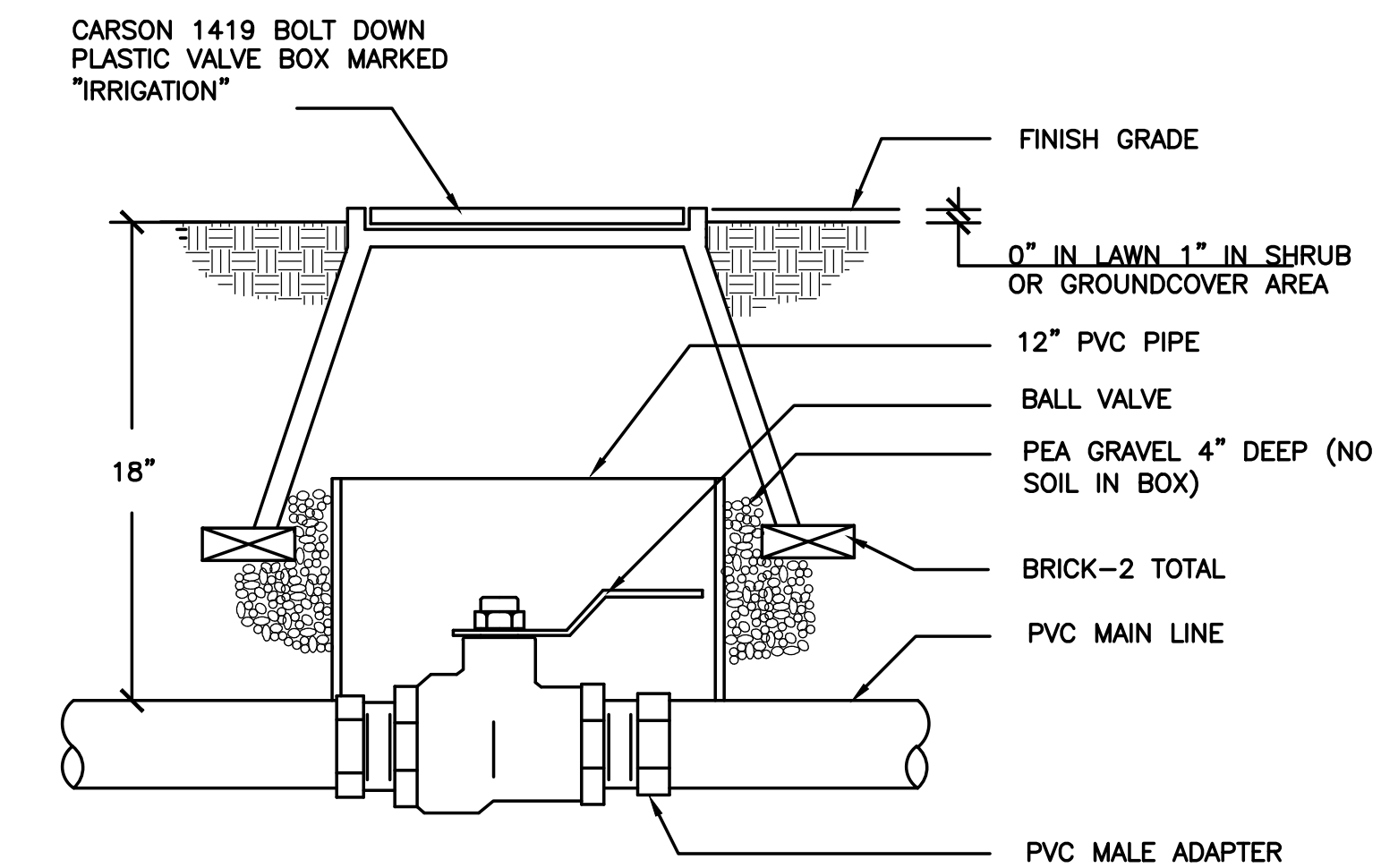
1. CONTRACTOR SHALL MEET ONSITE WITH THE CITY ENGINEER PRIOR TO ANY PLANTING OR SOIL PREPARATION TO REVIEW LAYOUT AND PLANT LOCATIONS.
2. CONTRACTOR SHALL NOTIFY THE CITY ENGINEER IN THE EVENT OF PLANT UNAVAILABILITY IMMEDIATELY AFTER BID AWARD. NO SUBSTITUTIONS WILL BE ACCEPTED WITHOUT PRIOR APPROVAL FROM THE CITY ENGINEER.
3. ALL PLANTS IN A GROUP PLANTING SHALL MATCH IN HEIGHT, CALIPER AND VIGOR TO ASSURE EVEN GROWTH RATES.
4. AUTOMATIC IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL PRIOR TO PLANTING.
5. SOIL PREPARATION SHALL BE COMPLETED PRIOR TO PLANTING. ORGANIC COMPOST TO BE INCORPORATED AT A RATE OF 6 CUBIC YARD PER 1,000 SQUARE FEET TO A DEPTH OF 12 INCHES INTO LANDSCAPE AREA.
6. ALL PLANTS SHALL BE INSPECTED BY THE CITY ENGINEER EITHER PRIOR TO DELIVERY OR IMMEDIATELY AFTER DELIVER TO THE JOB SITE. THE CITY ENGINEER RESERVES THE RIGHT TO REJECT ANY PLANT MATERIALS DEEMED UNSUITABLE.
7. TREE PLANTING HEIGHTS; TREES IN OPEN PLANTING AREAS SHALL BE PLANTED WITH THE BUTTRESS ROOTS 2\"/>



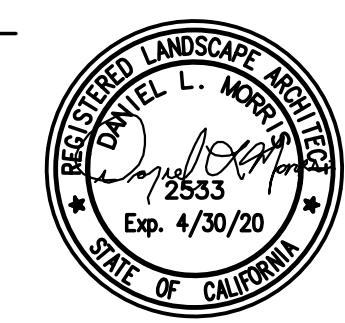
3 REMOTE CONTROL VALVE
NOT TO SCALE



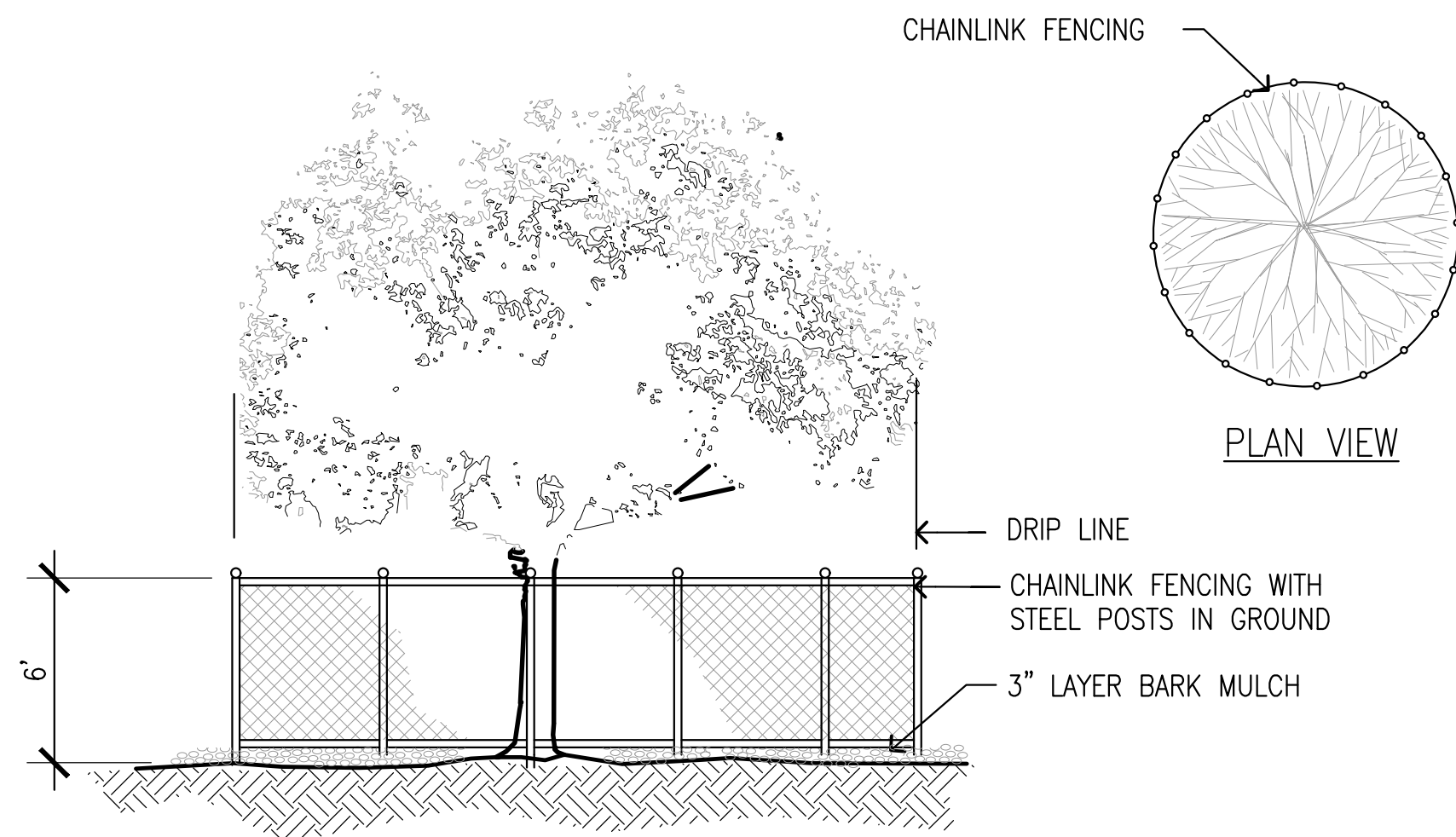
6 VALVE BOX INSTALLATION DETAIL
NOT TO SCALE



7 ISOLATION VALVE
NOT TO SCALE



DATE		DATE	
REVISION		NO.	
DESIGNED BY	STOHLER	CHECKED BY	MORRIS
DRAWN BY	JOHNSON	APPROVED BY	
PROJECT NAME	FRANCISCO BLVD. EAST FROM VIVIAN ST. TO GRAND AVE. BRIDGE		
DRAWING NAME	PLANTING AND IRRIGATION DETAILS		
SAN RAFAEL	COUNTY OF MARIN	CALIFORNIA	
249 Front Street San Francisco, CA 94111 P: 415.291.8900 F: 415.291.9463 www.mcmill-morris.com			
CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS			
SCALE	NONE		
DATE	October 2019		
PROJECT NO.	11114		
SHEET NO.	L-6		
DRAWING	66 OF 67		



NOTES
 1. CURRENT STANDARD DETAIL AT CITY ENGINEERING DIVISION SHALL PREVAIL.

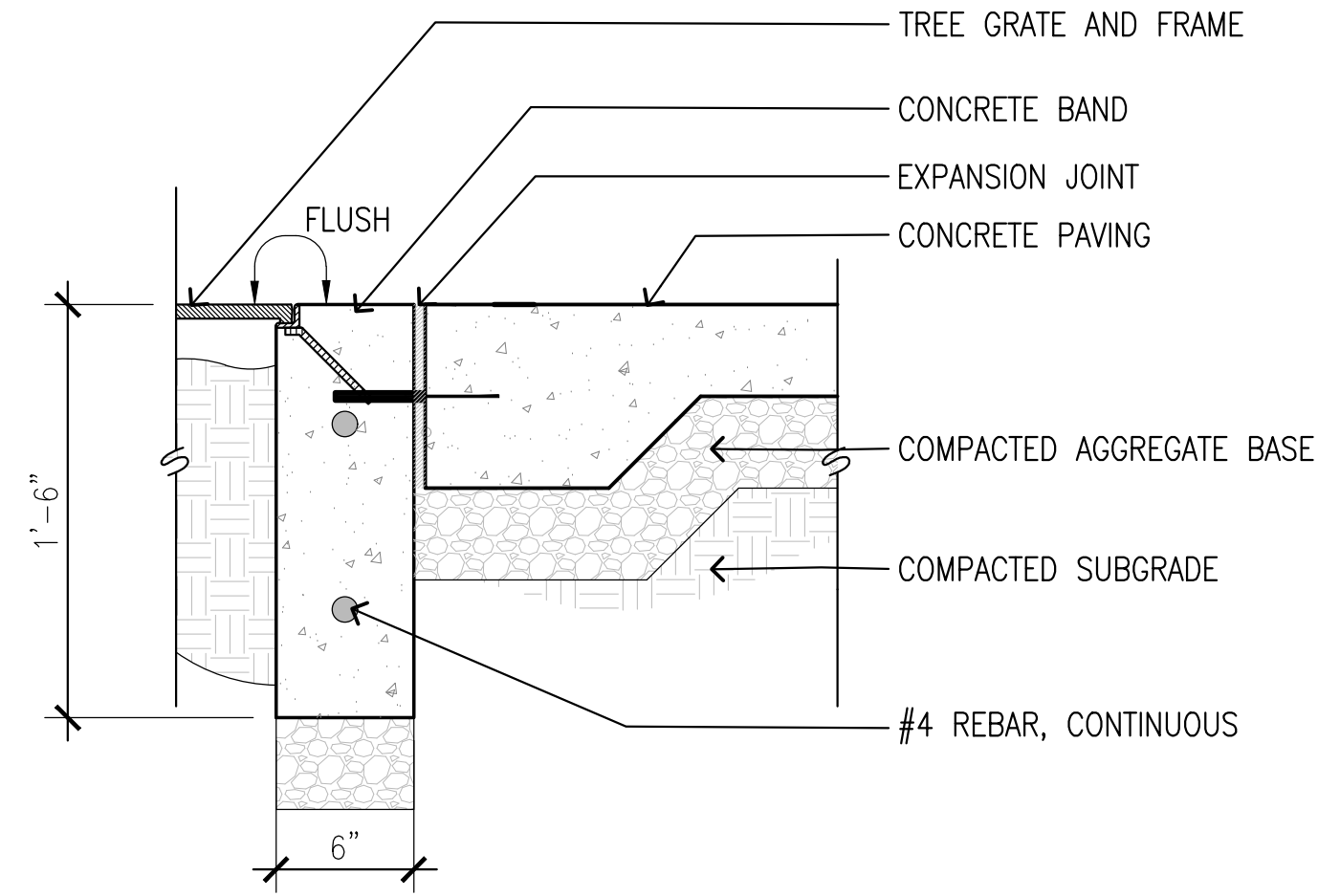
TREE PRESERVATION NOTES

1. TREE PRESERVATION MEASURES MUST BE IN PLACE BEFORE CONSTRUCTION, DEMOLITION AND/OR GRADING ACTIVITIES COMMENCE. CITY OF SAN RAFAEL WILL STOP CONSTRUCTION IF TREE PRESERVATION MEASURES ARE NOT IN PLACE AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
2. TREES CALLED OUT FOR PRESERVATION SHALL BE FENCED AT THE DRIPLINE. FENCING MAY OCCUR AT THE COMBINED DRIPLINES OF GROVES OF TREES. PLACE 3" BARK MULCH BENEATH DRIPLINES OF TREES TO BE PRESERVED.
3. FENCING SHALL BE 6-FOOT TALL CHAIN LINK FENCING WITH STEEL POSTS EMBEDDED IN THE GROUND.
4. NO GRADING SHALL OCCUR WITHIN THE DRIPLINES/FENCED AREA OF EXISTING TREES.
5. NO CONSTRUCTION MATERIALS OR CONSTRUCTION VEHICLES MAY BE STORED WITHIN THE DRIPLINES/FENCED AREA OF EXISTING TREES.
6. CONSTRUCTION VEHICLES OR MACHINERY MAY NOT PASS BETWEEN TWO OR MORE EXISTING TREES IDENTIFIED FOR PRESERVATION IF THEIR CANOPIES ARE WITHIN 10 FEET OF TOUCHING. ADDITIONAL FENCING MAY BE REQUIRED BY THE CITY OF SAN RAFAEL TO ENFORCE THIS.
7. THE CONTRACTOR IS REQUIRED TO HAVE AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) ON SITE IF SITE CONSTRUCTION EFFORTS REQUIRE REMOVAL OF EXISTING ROOTS OR BRANCH PRUNING.
8. UNAUTHORIZED TREE REMOVAL IS SUBJECT TO REPLACEMENT EQUAL TO THE APPRAISED VALUE OF THE TREE LOST.
9. THE CONTRACTOR IS REQUIRED TO WATER, FERTILIZE AND ATTEND TO OTHER MAINTENANCE NEEDS OF EXISTING TREES TO MAINTAIN HEALTHY GROWTH THROUGHOUT THE CONSTRUCTION PERIOD. AN EARTH BERM MEASURING MINIMUM 6 FT IN DIA. AND 6 IN. HEIGHT SHALL BE CONSTRUCTED AT THE BASE OF EACH TREE TO FUNCTION AS A TEMPORARY WATERING BASIN DURING THE CONSTRUCTION PERIOD. TREES SHALL BE WATERED ACCORDING TO WEATHER AND TREE REQUIREMENTS.
10. IF TREES ARE BEING RELOCATED: RELOCATION OF EXISTING TREES SHALL OCCUR UNDER THE OBSERVATION AND DIRECTION OF A CERTIFIED ARBORIST APPROVED BY THE CITY OF SAN RAFAEL.

6 TREE PRESERVATION NOTES AND FENCING DETAIL

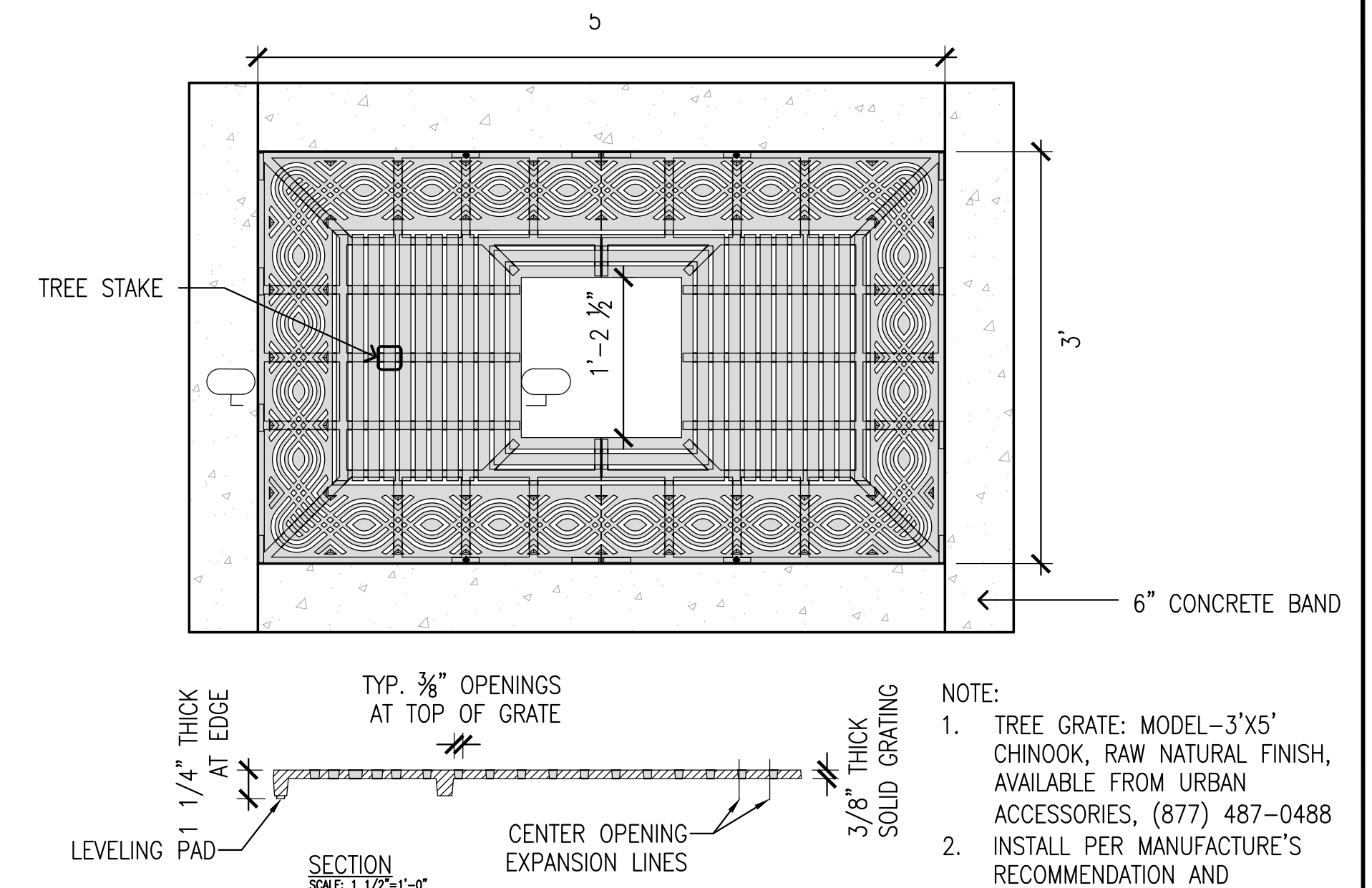
SCALE: NTS
 392-TREEPRESV.DWG

MARIN MUNICIPAL WATER DISTRICT
 Plan Review Ordinance # 430
 Approval Date 11/6/2019
 Project # 2019-001
 Reviewer: CHRIS LAURITSEN



3 CONCRETE BAND AT TREE GRATE

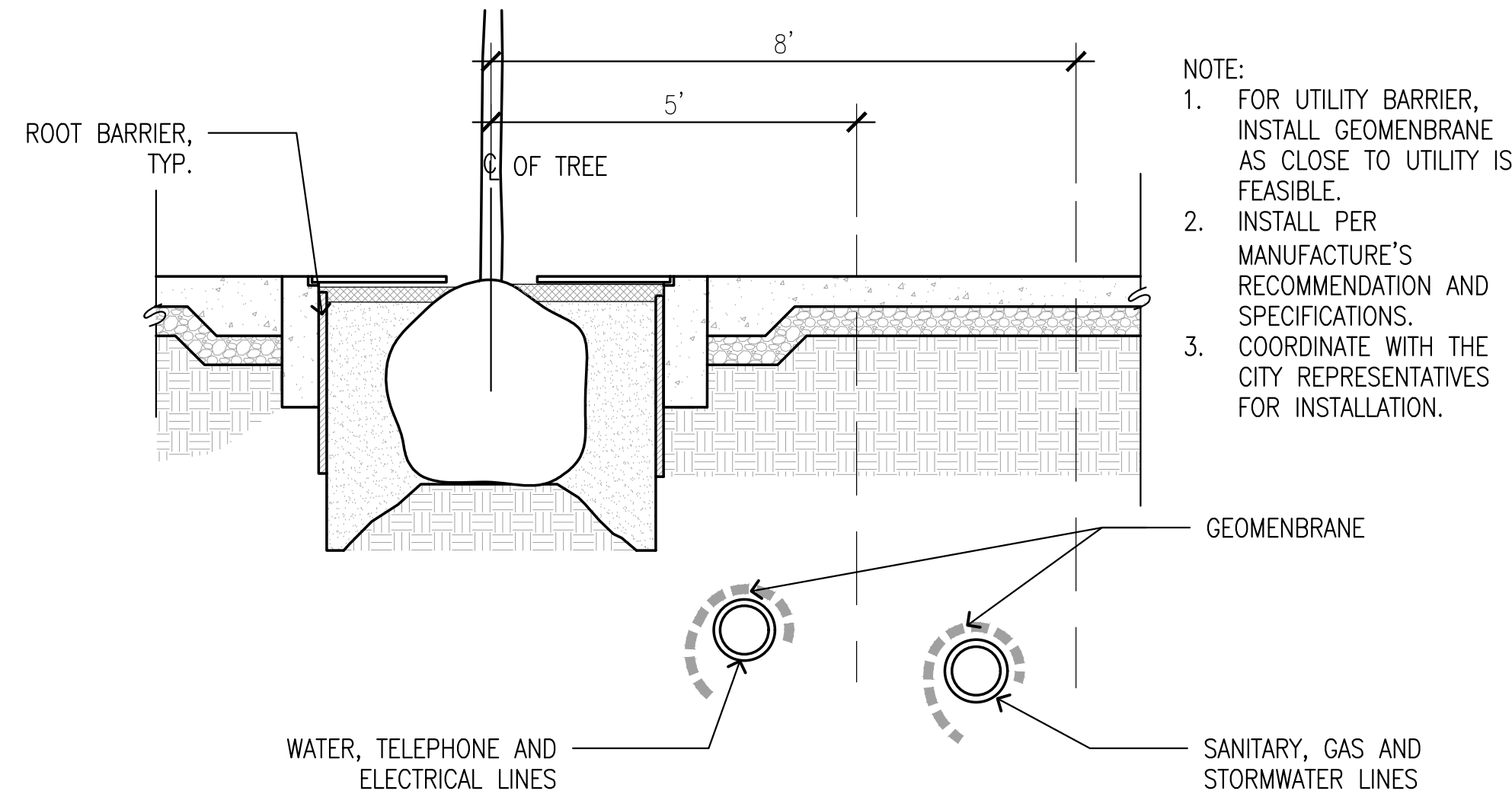
SCALE: 3/2"=1'-0"
 CCA_CONCMOW



1 TREE GRATE

SCALE: 1"=1'-0"
 L-2 IRRIGATION-PLANTING DESIGN.DWG

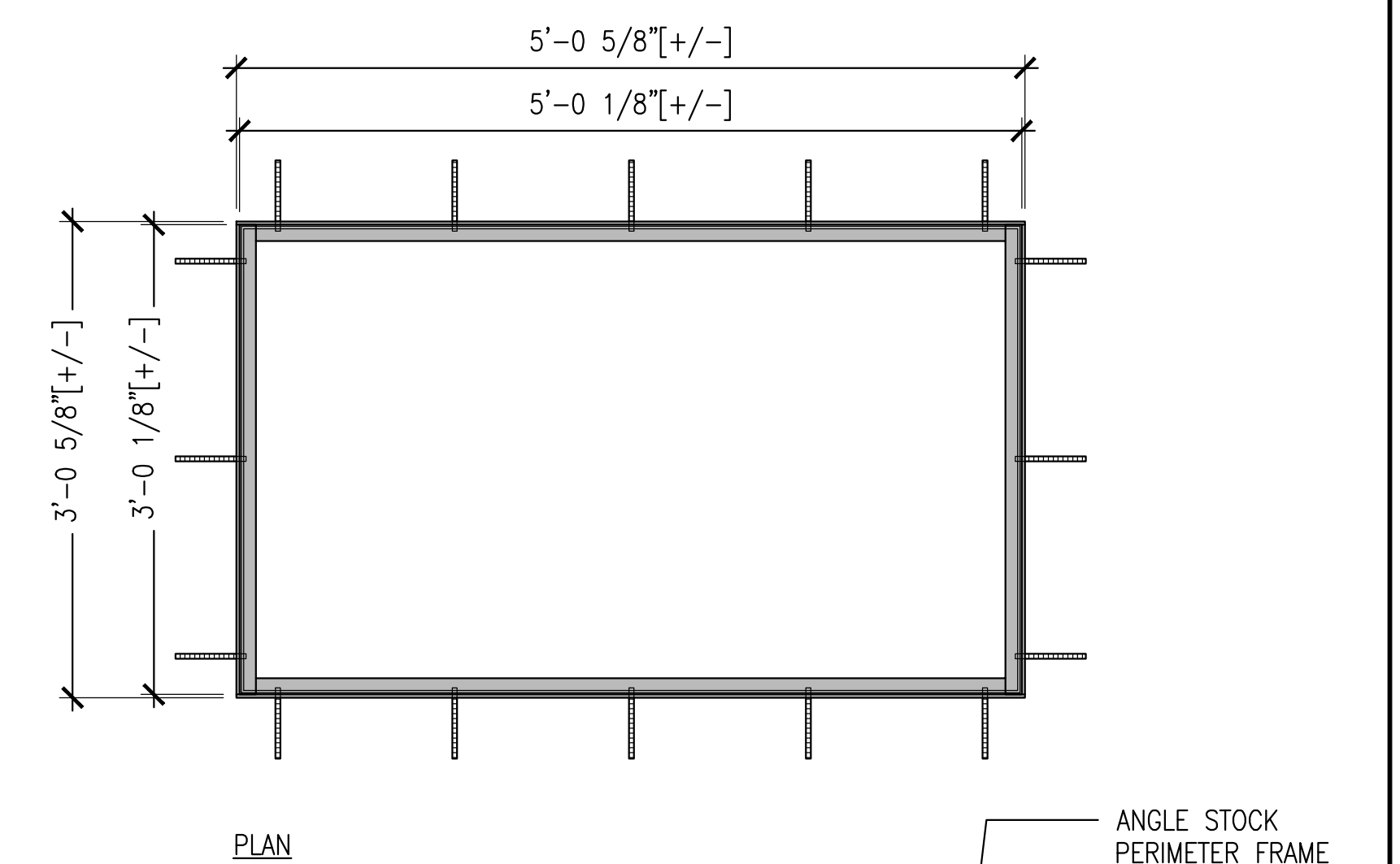
- NOTE:
1. TREE GRATE: MODEL-3'X5' CHINOOK, RAW NATURAL FINISH, AVAILABLE FROM URBAN ACCESSORIES, (877) 487-0488
 2. INSTALL PER MANUFACTURER'S RECOMMENDATION AND SPECIFICATION



4 UTILITY BARRIER FOR UNDERGROUND UTILITY LINES

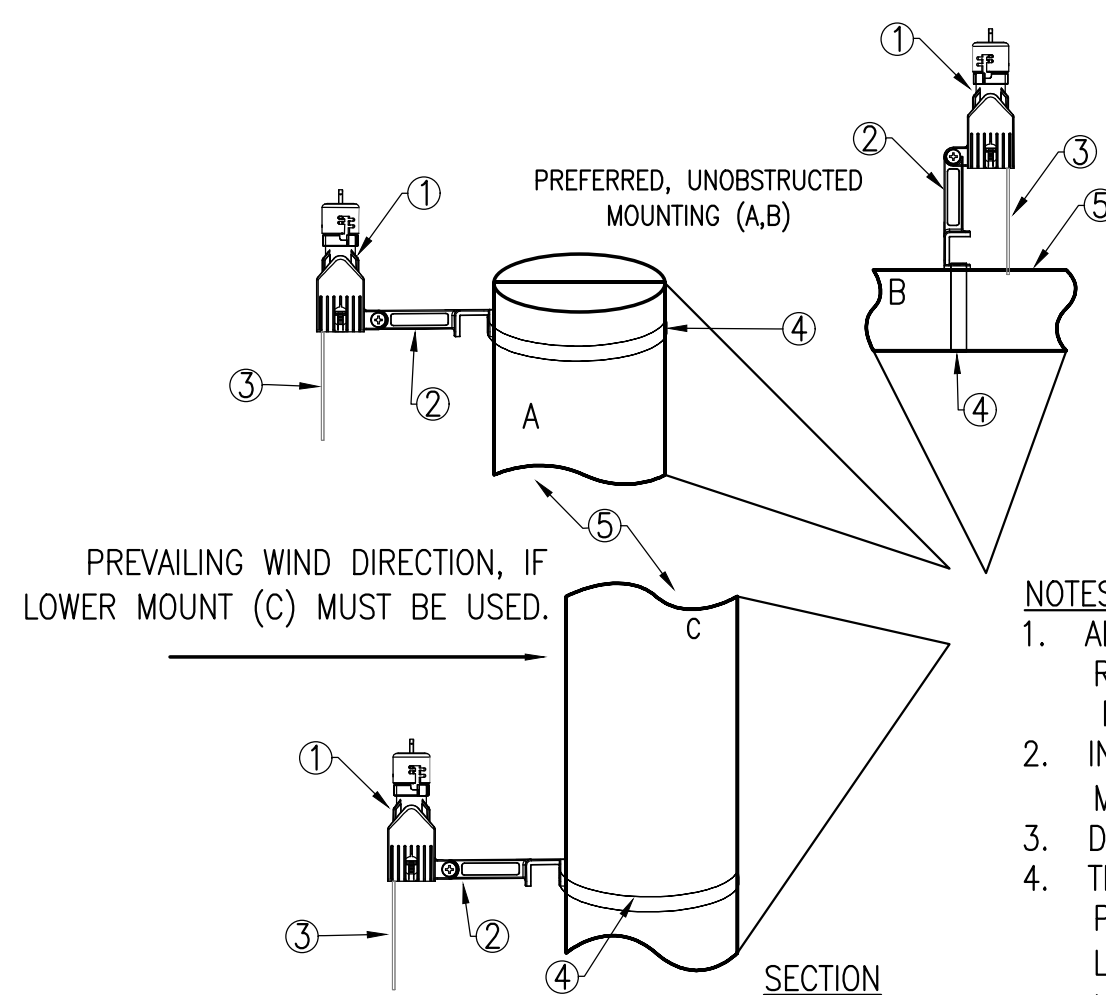
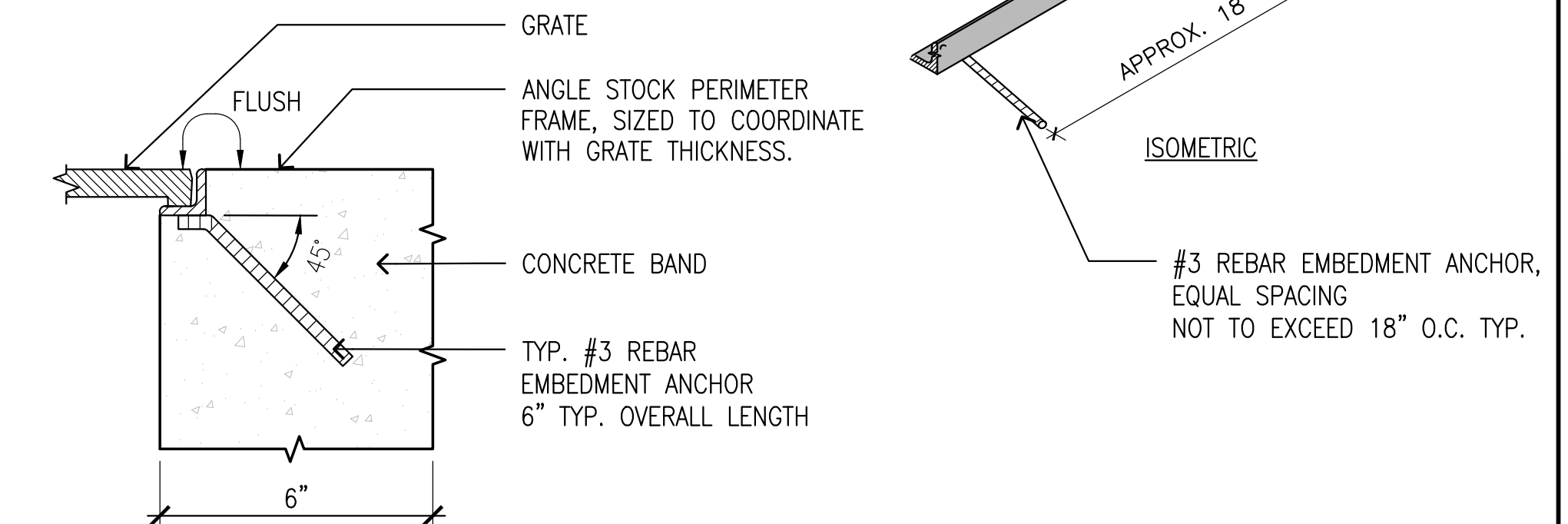
SCALE: N.T.S.
 L-2 IRRIGATION-PLANTING DESIGN.DWG

- NOTE:
1. FOR UTILITY BARRIER, INSTALL GEOMENBRANE AS CLOSE TO UTILITY IS FEASIBLE.
 2. INSTALL PER MANUFACTURER'S RECOMMENDATION AND SPECIFICATIONS.
 3. COORDINATE WITH THE CITY REPRESENTATIVES FOR INSTALLATION.



2 TREE GRATE FRAME

SCALE: 1"=1'-0"
 L-2 IRRIGATION-PLANTING DESIGN.DWG



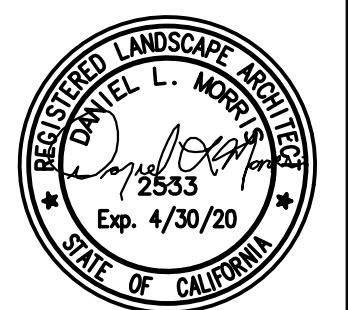
5 RAIN SENSOR AT POLE

SCALE: N.T.S.
 L-2 IRRIGATION-PLANTING DESIGN.DWG

- LEGEND:
1. IRRITROL WIRELESS RAIN SENSOR, MODEL NUMBER RFS1000.
 2. ADJUSTABLE MOUNTING BRACKET.
 3. ANTENNA.
 4. BAND/HOSE CLAMP OR STRAP. U-BOLT OR SPLIT-CLAMP MAY ALSO BE USED. (NOT INCLUDED).
 5. LIGHT POLE.

- NOTES:
1. ALL ELECTRICAL WORK MUST CONFORM TO LOCAL CODES. REFER TO PRODUCT LITERATURE FOR ADDITIONAL INSTALLATION REQUIREMENTS.
 2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 3. DO NOT SCALE DRAWING.
 4. THIS DRAWING IS THE REFERENCE FOR THE INSTALLATION AT POLE. CONTRACTOR TO COORDINATE INSTALLATION AND LOCATION WITH THE CITY'S REPRESENTATIVE. INSTALL PER MANUFACTURER'S RECOMMENDATION AND SPECIFICATIONS.

DESIGNED BY	STOHLER	DATE	
DRAWN BY	JOHNSON	DATE	
CHECKED BY	MORRIS	DATE	
APPROVED BY		DATE	
PROJECT NAME	FRANCISCO BLVD. EAST FROM VIVIAN ST. TO GRAND AVE. BRIDGE		
DRAWING NAME	PLANTING AND IRRIGATION DETAILS		
CITY	SAN RAFAEL		
COUNTY	CALIFORNIA		
249 Front Street San Francisco, CA 94111 P: 415.291.8900 F: 415.291.9463 www.morrill-morrins.com			
CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS			
SCALE	NONE		
DATE	October 2019		
PROJECT NO.	11114		
SHEET NO.	L-7		
DRAWING	66 OF 67		

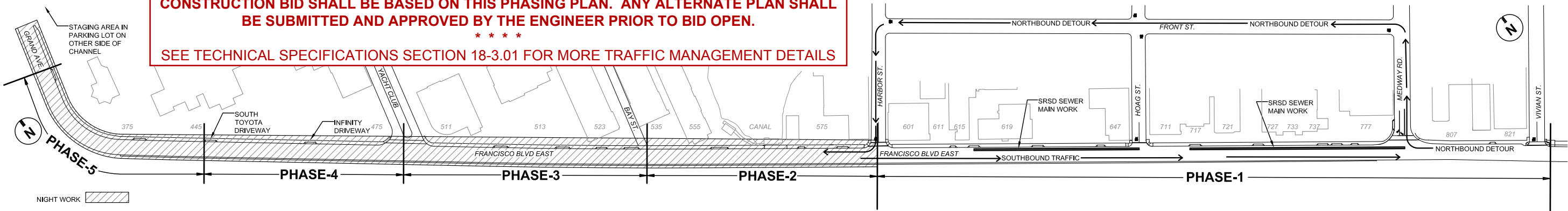


Oct 18, 2019 - 9:51am - US29 - HighRes
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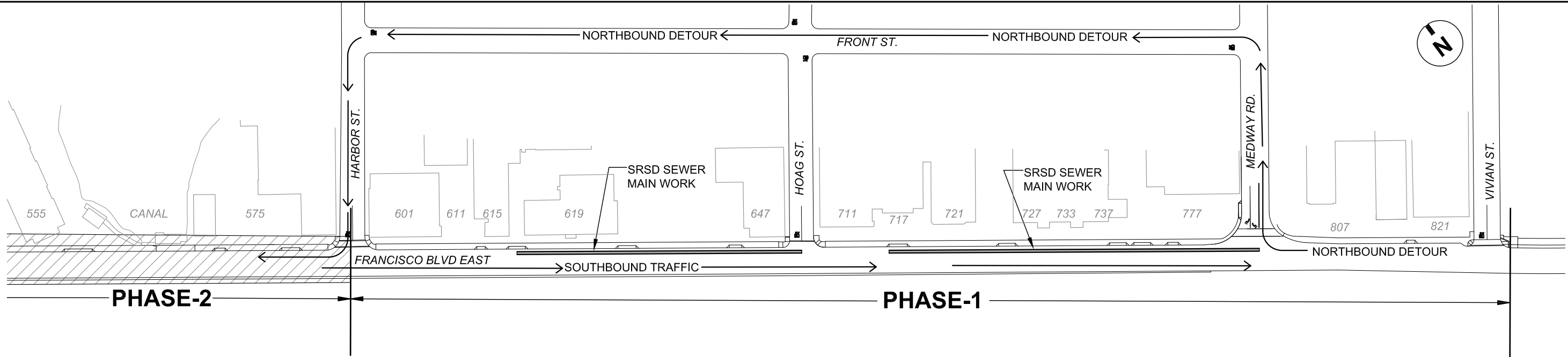
PROJECT PHASE PLAN AND TRAFFIC MANAGEMENT PLAN

CONSTRUCTION BID SHALL BE BASED ON THIS PHASING PLAN. ANY ALTERNATE PLAN SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER PRIOR TO BID OPEN.

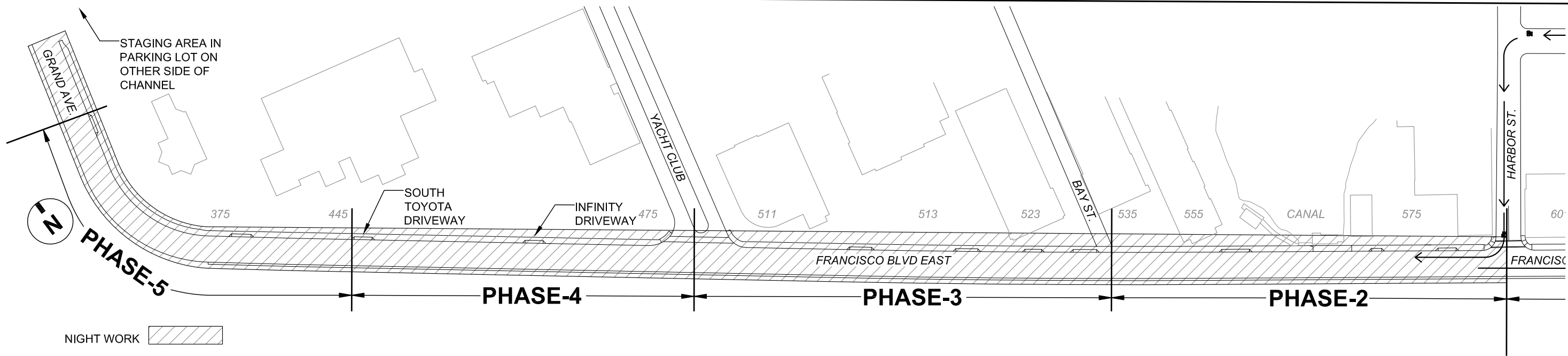
SEE TECHNICAL SPECIFICATIONS SECTION 18-3.01 FOR MORE TRAFFIC MANAGEMENT DETAILS



PHASE-1 TRAFFIC MANAGEMENT PLAN - DETOUR



PHASES-2 THRU 5 - NIGHT WORK



	NO.	REVISION	BY	DATE
DESIGNED	DMN			
DRAWN	DMN			
CHECKED	HY			
APPROVED	HY			
PROJECT NAME FRANCISCO BLVD EAST SIDEWALK VIVIAN STREET TO GRAND AVE. DRAWING NAME TRAFFIC MANAGEMENT PLAN				
COUNTY OF MARIN SAN RAFAEL CALIFORNIA				
CITY OF SAN RAFAEL DEPARTMENT OF PUBLIC WORKS				
SCALE: NONE				
DATE:				
CITY PROJECT NO.: 11349				
SHEET NO.:				
DRAWING: 1 OF 2				

TRAFFIC MANAGEMENT PLAN

CONSTRUCTION BID SHALL BE BASED ON THIS PHASING PLAN. ANY ALTERNATE PLAN SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER PRIOR TO BID OPEN.

* * * * *

SEE TECHNICAL SPECIFICATIONS SECTION 18-3.01 FOR MORE TRAFFIC MANAGEMENT DETAILS

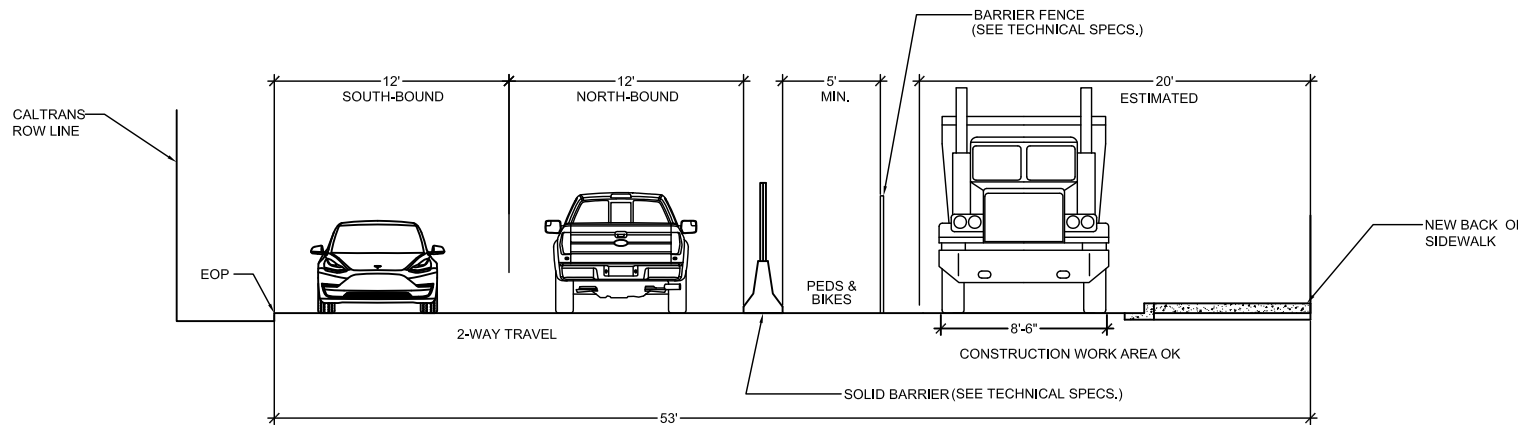
CONSTRUCTION WORK PHASE AND TRAFFIC MANAGEMENT PLAN

PHASE	STATION	WORK PHASE START & STOP POINTS	ROADWAY CONFIGURATION	WORK HOURS
1	START: 15+32	START: VIVIAN ST. STOP: MEDWAY ST.	2-WAY TRAFFIC	7:00 AM - 5:00 PM
	STOP: 31+50	START: MEDWAY ST. STOP: HARBOR ST.	1-WAY SB; DETOUR NB VIA FRONT ST.	7:00 AM - 5:00 PM
NIGHT WORK*				
2	START: 31+50 STOP: 37+50	START: HARBOR ST. STOP: BAY ST.	1-LANE, 2-WAY WITH FLAGGERS	9:00 PM - 6:00 AM
3	START: 37+50 STOP: 43+00	START: BAY ST. STOP: YATCH CLUB DR.	1-LANE, 2-WAY WITH FLAGGERS	9:00 PM - 6:00 AM
4	START: 43+00 STOP: 48+00	START: YATCH CLUB DR. STOP: SOUTH TOYOTA DW	1-LANE, 2-WAY WITH FLAGGERS	9:00 PM - 6:00 AM
5	START: 48+00 STOP: 53+50	START: SOUTH TOYOTA DW STOP: GRAND AVE.	1-LANE, 2-WAY WITH FLAGGERS	9:00 PM - 6:00 AM

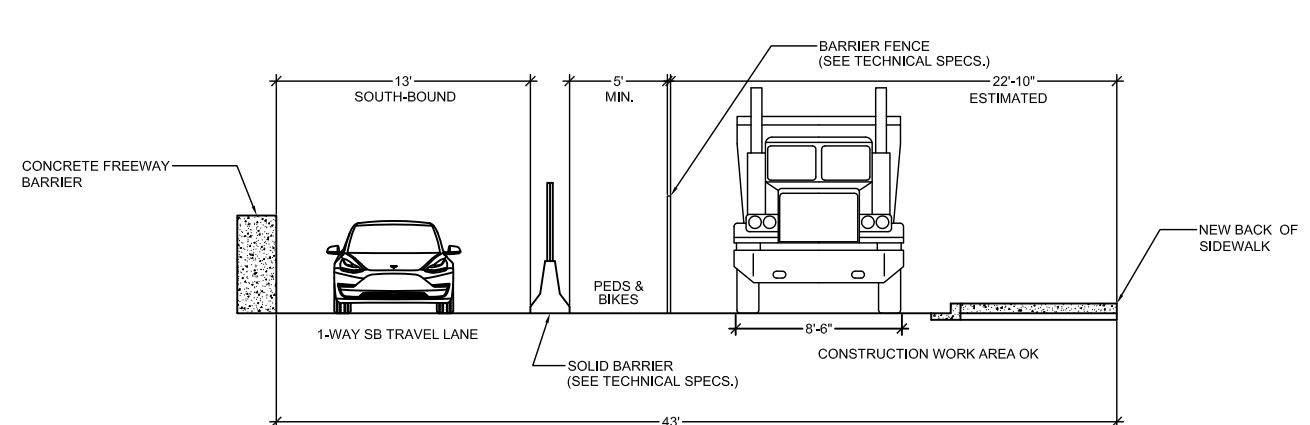
*CONTRACTOR SHALL PROVIDE ALL NECESSARY LIGHTING FOR SAFE WORKING CONDITIONS AND PUBLIC RIGHT-OF-WAY SAFETY.

TRAFFIC MANAGEMENT PLAN CROSS SECTIONS

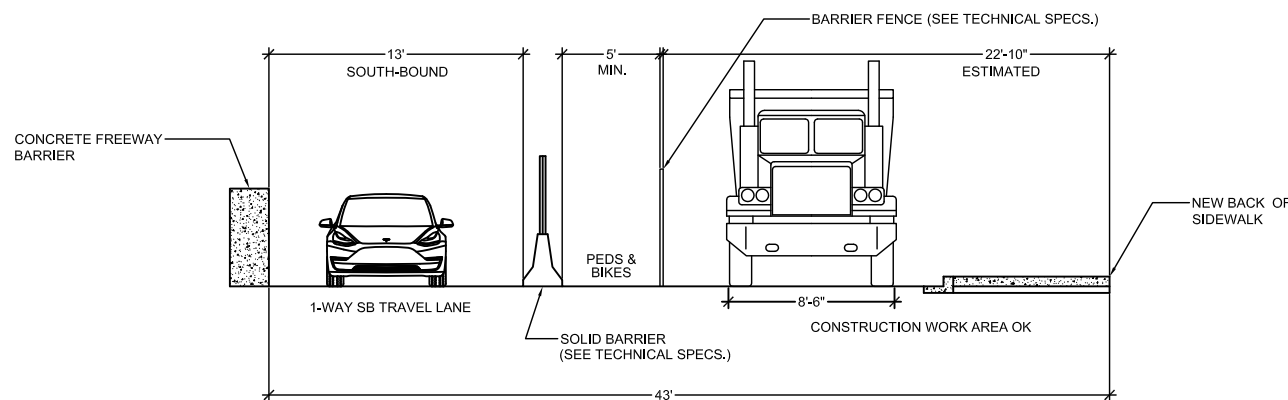
PHASE 1 - VIVIAN TO MEDWAY
TWO-WAY WITH PED/BIKE LANE



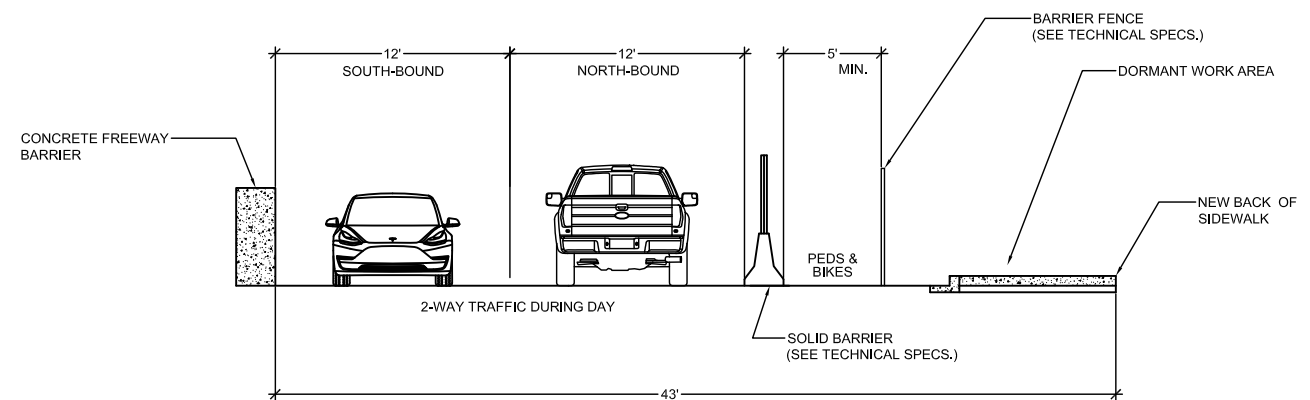
PHASE 1 - MEDWAY TO HARBOR
ONE-WAY SB; NB DETOUR: MEDWAY RD. TO HARBOR VIA FRONT ST.



PHASES 2 THRU 5 - HARBOR STREET TO GRAND AVENUE
ONE LANE TWO-WAY WITH FLAGGING
NIGHT-TIME CONFIGURATION DURING WORK HOURS



PHASES 2 THRU 5 - HARBOR STREET TO GRAND AVENUE
TWO-WAY TRAFFIC
NON-WORKING DAY-TIME CONFIGURATION



NO.	REVISION	BY	DATE
DESIGNED	DN		
DRAWN	DN		
CHECKED	HY		
APPROVED	HY		
PROJECT NAME		DATE	
FRANCISCO BLVD. EAST SIDEWALK VIVIAN STREET TO GRAND AVE.			
DRAWING NAME			
TRAFFIC CROSS SECTIONS			
SAN RAFAEL		COUNTY OF MARIN	
		CALIFORNIA	

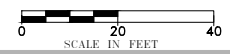
CITY OF SAN RAFAEL
DEPARTMENT OF
PUBLIC WORKS

SCALE: AS SHOWN
DATE: DECEMBER 2019
CITY PROJECT NO.: 11349
SHEET NO.:
DRAWING: 2 OF 2

FOR INFORMATION ONLY - NOT PART OF THIS BID

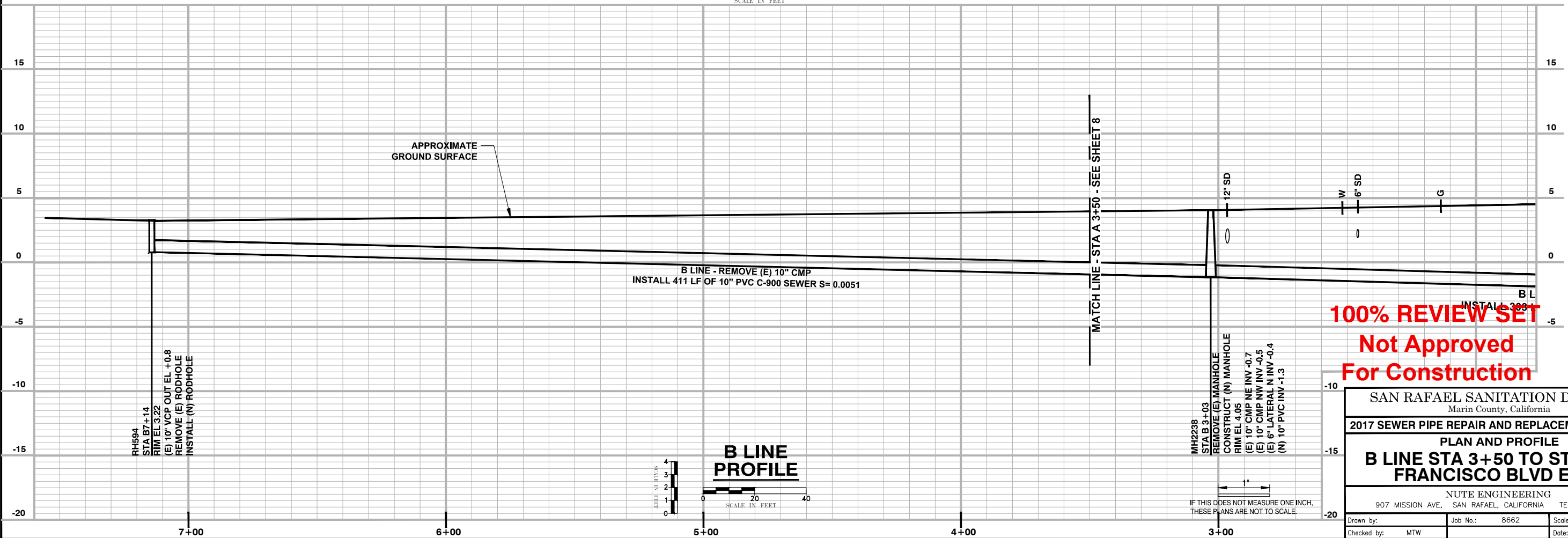


PLAN



NOTES:

1. THE CONTRACTOR SHOULD NOTE THAT THE EXISTING SEWER IS IN CLOSE PROXIMITY TO EXISTING GAS LINE. PRIOR TO CONSTRUCTION CONTRACTOR SHALL POTHOLE THE GAS MAIN ALONG THE SEWER ALIGNMENT. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING PG&E TO PROVIDE ON-SITE INSPECTOR.
2. CONTRACTOR SHALL POTHOLE STREET LIGHT CONDUITS NEAR ALIGNMENT PRIOR TO STARTING CONSTRUCTION.
3. PROTECT EXISTING TREES IN PLANTER AREA WITH PLYWOOD SHIELDING AROUND TRUNK OF TREE.
4. CONTRACTOR SHALL SAWCUT CONCRETE SIDEWALK ALONG ALIGNMENT PRIOR TO CONSTRUCTION TO MINIMIZE CONCRETE SIDEWALK REPLACEMENT



B LINE PROFILE



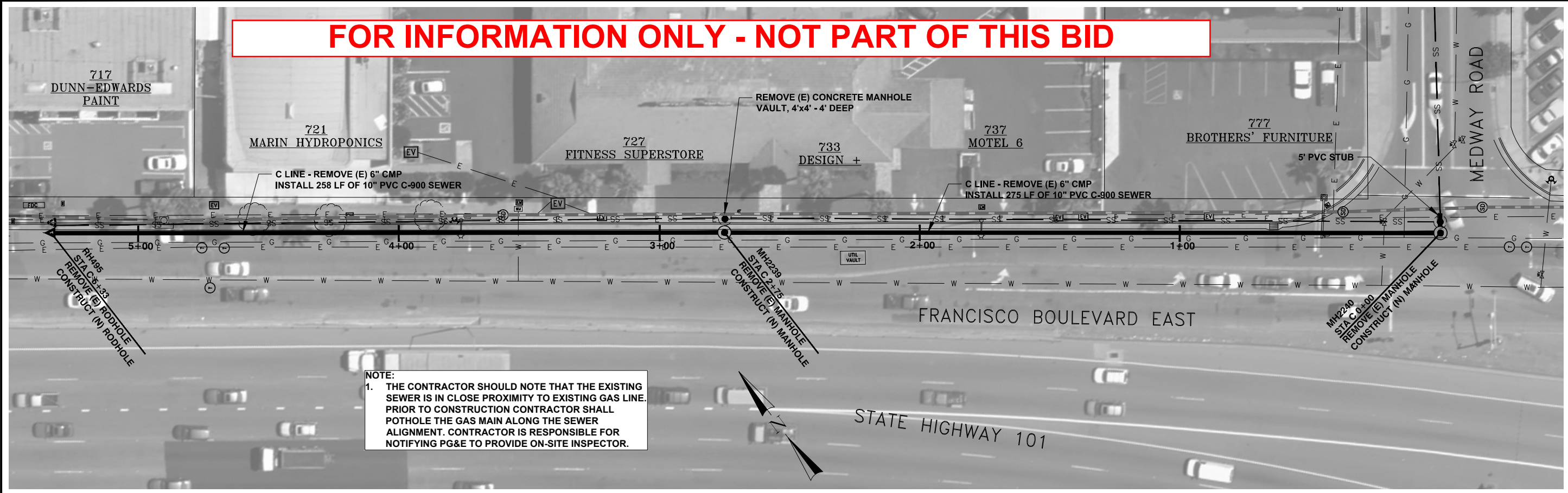
**100% REVIEW SET
Not Approved
For Construction**

9
OF
14

SAN RAFAEL SANITATION DISTRICT Marin County, California		
2017 SEWER PIPE REPAIR AND REPLACEMENT PROJECT		
PLAN AND PROFILE		
B LINE STA 3+50 TO STA 7+14 FRANCISCO BLVD EAST		
NUTE ENGINEERING 907 MISSION AVE, SAN RAFAEL, CALIFORNIA TEL 415-453-4480		
Drawn by:	Job No.:	Scale:
Checked by: MTW	8662	AS SHOWN
		Date: MAY 2017

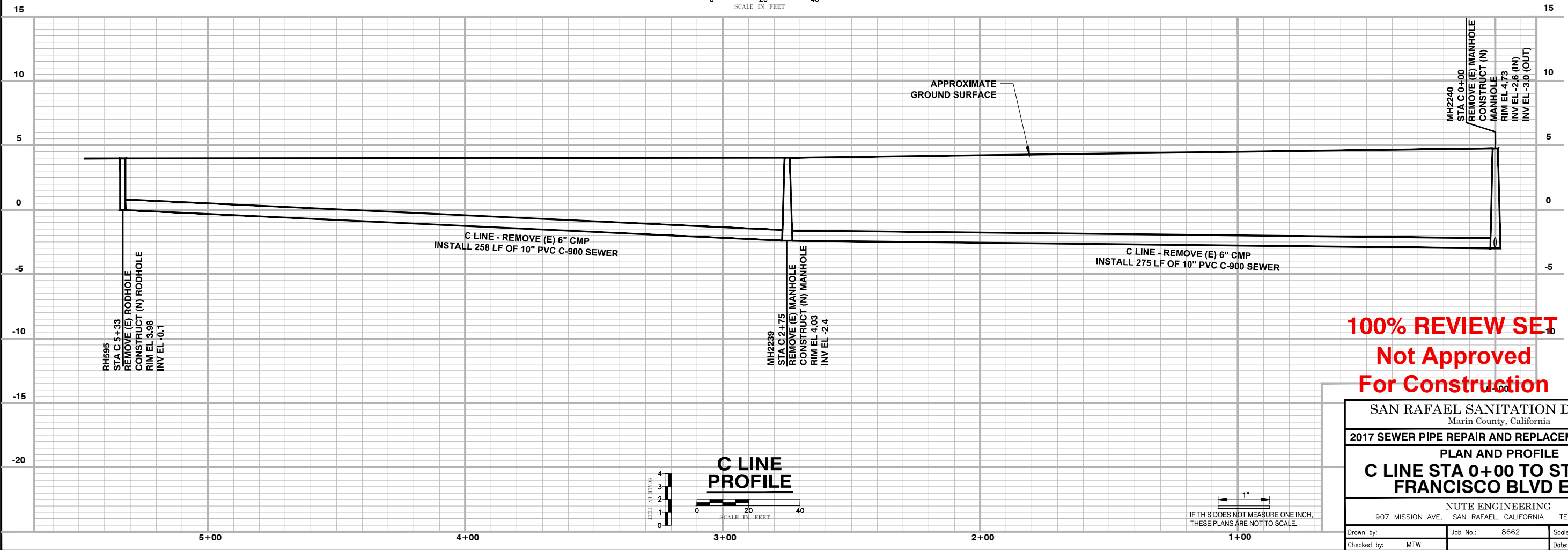
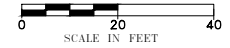
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FOR INFORMATION ONLY - NOT PART OF THIS BID

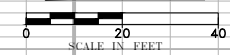


NOTE:
 1. THE CONTRACTOR SHOULD NOTE THAT THE EXISTING SEWER IS IN CLOSE PROXIMITY TO EXISTING GAS LINE. PRIOR TO CONSTRUCTION CONTRACTOR SHALL POTHOLE THE GAS MAIN ALONG THE SEWER ALIGNMENT. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING PG&E TO PROVIDE ON-SITE INSPECTOR.

PLAN



C LINE PROFILE



IF THIS DOES NOT MEASURE ONE INCH, THESE PLANS ARE NOT TO SCALE.

100% REVIEW SET
Not Approved
For Construction

10
OF
14

SAN RAFAEL SANITATION DISTRICT Marin County, California		
2017 SEWER PIPE REPAIR AND REPLACEMENT PROJECT		
PLAN AND PROFILE C LINE STA 0+00 TO STA 5+33 FRANCISCO BLVD EAST		
NUTE ENGINEERING 907 MISSION AVE, SAN RAFAEL, CALIFORNIA TEL 415-453-4480		
Drawn by:	Job No.: 8662	Scale: AS SHOWN
Checked by: MTW	Date: MAY 2017	

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 P:_Projects\8662_SPSD_CMP_and_Spot_Repairs\CAD_D\Production Drawings\8662_SPSD_2017_Sewer_Repairs.dwg Layout: 10 francisco pipe Pagesetup: - - - -