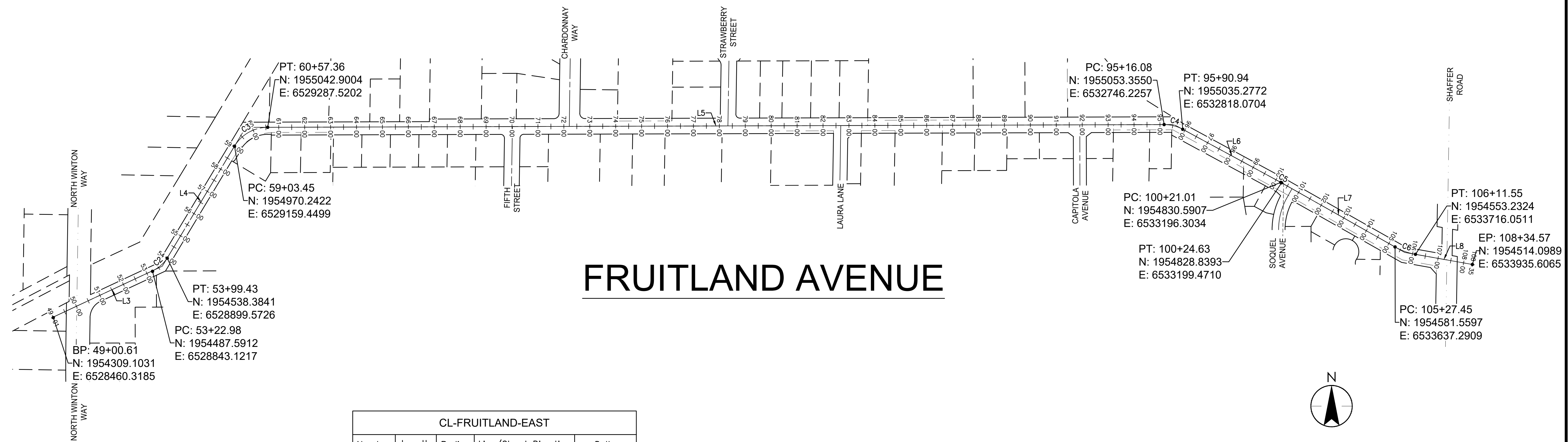
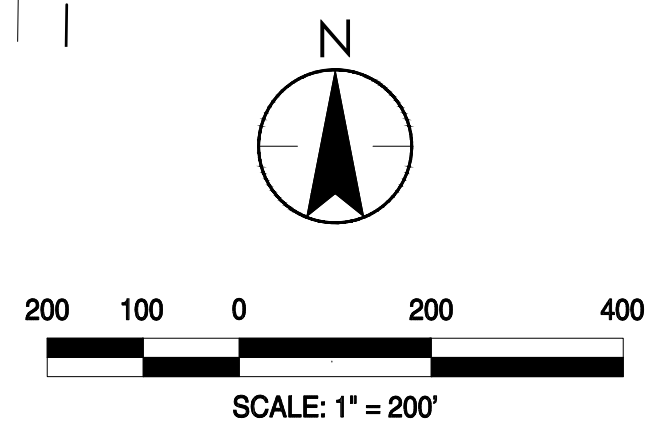
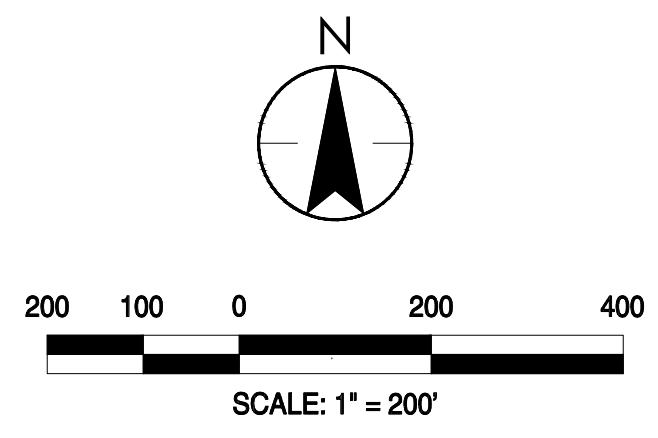


CL-FRUITLAND-WEST				
Number	Length	Radius	Line/Chord Direction	Delta
L1	2318.640		N89° 50' 22.41"E	
C1	0.129	100.001	N89° 48' 09.48"E	000°04'25.85"
L2	1450.061		N89° 45' 56.56"E	

FRUITLAND AVENUE



CL-FRUITLAND-EAST				
Number	Length	Radius	Line/Chord Direction	Delta
L3	425.339		N65° 00' 07.08"E	
C2	77.062	130.000	N48° 01' 12.08"E	033°57'50.00"
L4	500.442		N31° 02' 17.08"E	
C3	153.909	150.000	N60° 25' 56.80"E	058°47'19.44"
L5	3458.721		N89° 49' 36.53"E	
C4	74.859	150.000	S75° 52' 34.47"E	028°35'38.00"
L6	430.066		S61° 34' 45.47"E	
C5	3.620	200.000	S61° 03' 38.97"E	001°02'13.00"
L7	502.825		S60° 32' 32.47"E	
C6	84.099	249.000	S70° 13' 04.97"E	019°21'05.00"
L8	223.016		S79° 53' 37.47"E	



NOTE: COORDINATES SHOWN HEREIN ARE ESTABLISHED FROM GROUND DISTANCES AND ARE NOT BASED ON THE CALIFORNIA COORDINATE SYSTEM OR OTHER ESTABLISHED HORIZONTAL DATUM.

WAE CONSULTING ENGINEERS
 430 10th Street
 Modesto, CA 95354
 Tel.: 209.588.4477
 Fax: 209.588.4478

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No.	MM.YY	Description	By	Appd.

Client/Project: CITY OF ATWATER, FRUITLAND AVENUE RECONSTRUCTION PROJECT PHASE III, BID CALL NUMBER: 725-24, CITY PROJECT NUMBER: 16-2-3, ATWATER, CALIFORNIA

Title: ALIGNMENT HORIZONTAL CONTROL

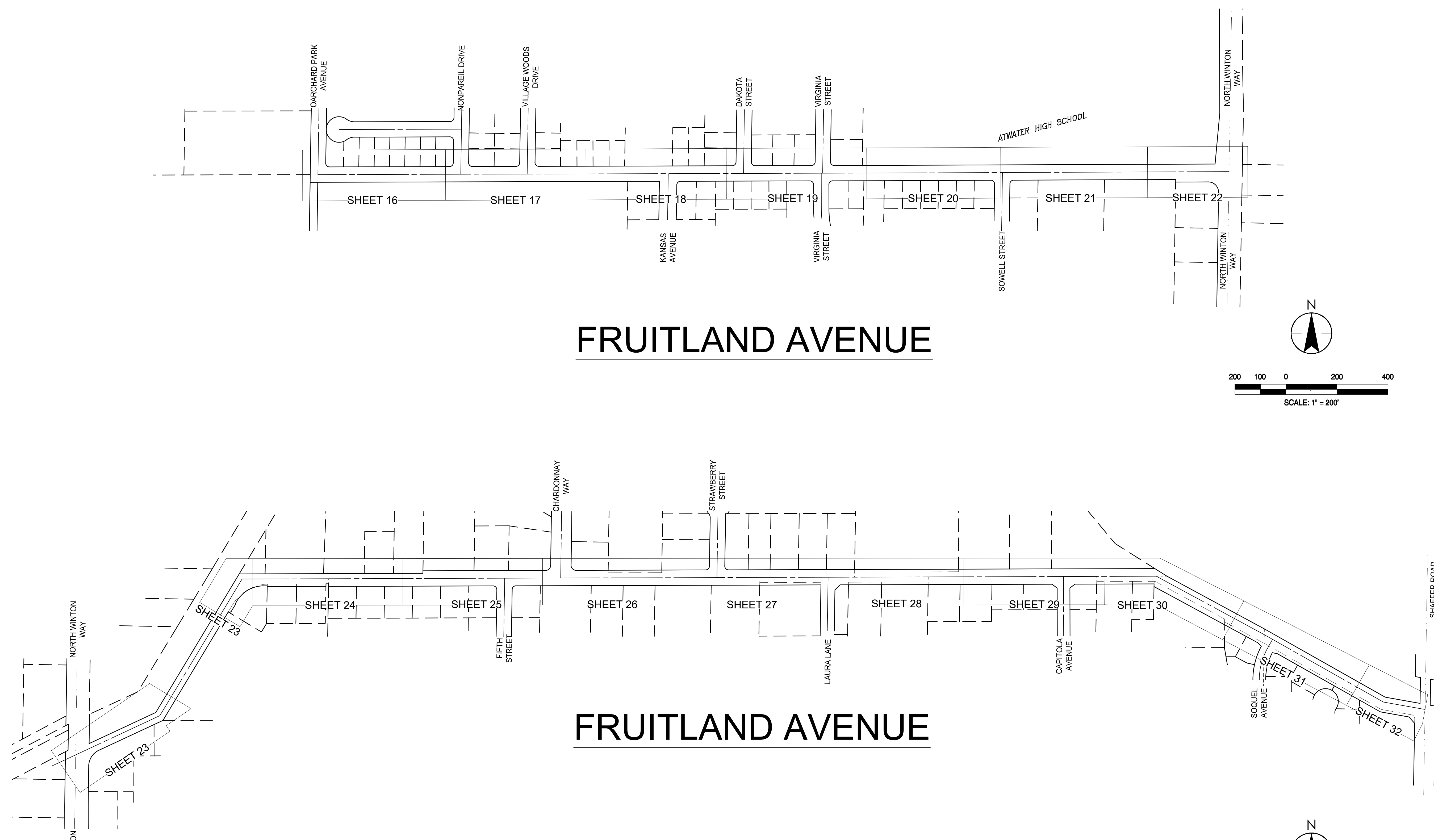
Engineer's Seal: REGISTERED PROFESSIONAL ENGINEER, ROBERT FRANCIS CHRISTENSEN, CIVIL ENGINEER, STATE OF CALIFORNIA, EXP. 06-30-24

Engineer's Signature: Robert S. Christensen
 Signature Date: 04.15.2024

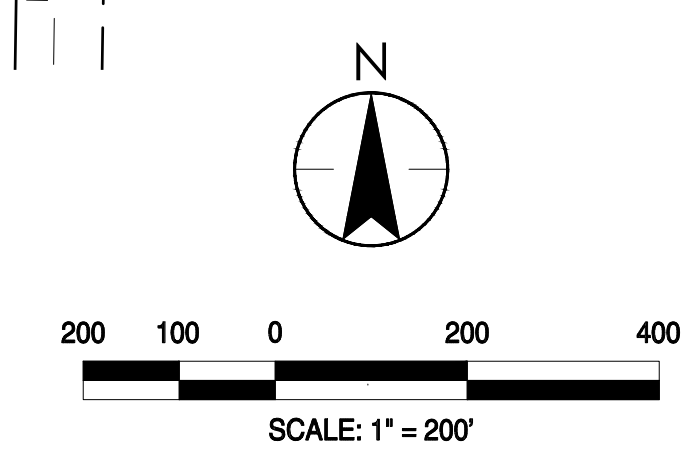
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Know what's below. Call before you dig.

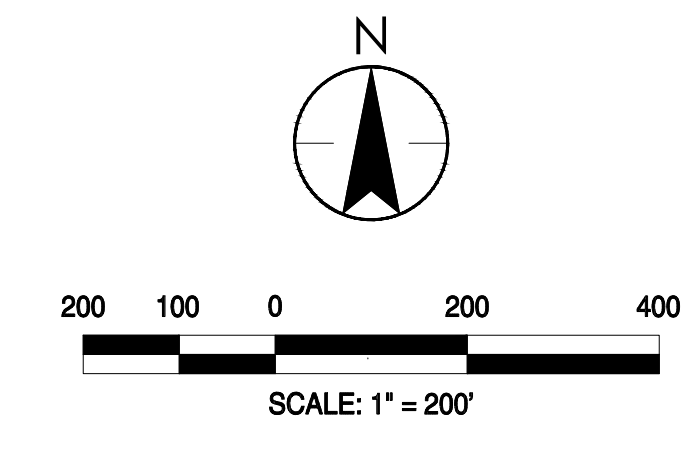
Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 03_CONTROL
 JVP: RFC IY 03.26.24
 Dwn: Chkd. Dgn. MM.00.YY
 Sheet No.



FRUITLAND AVENUE



FRUITLAND AVENUE



LEGEND
SHT # SHEET NUMBER REFERENCES CORRESPONDING PLAN & PROFILE


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430 10th Street
Modesto, CA 95354
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No.	DATE	DESCRIPTION	BY

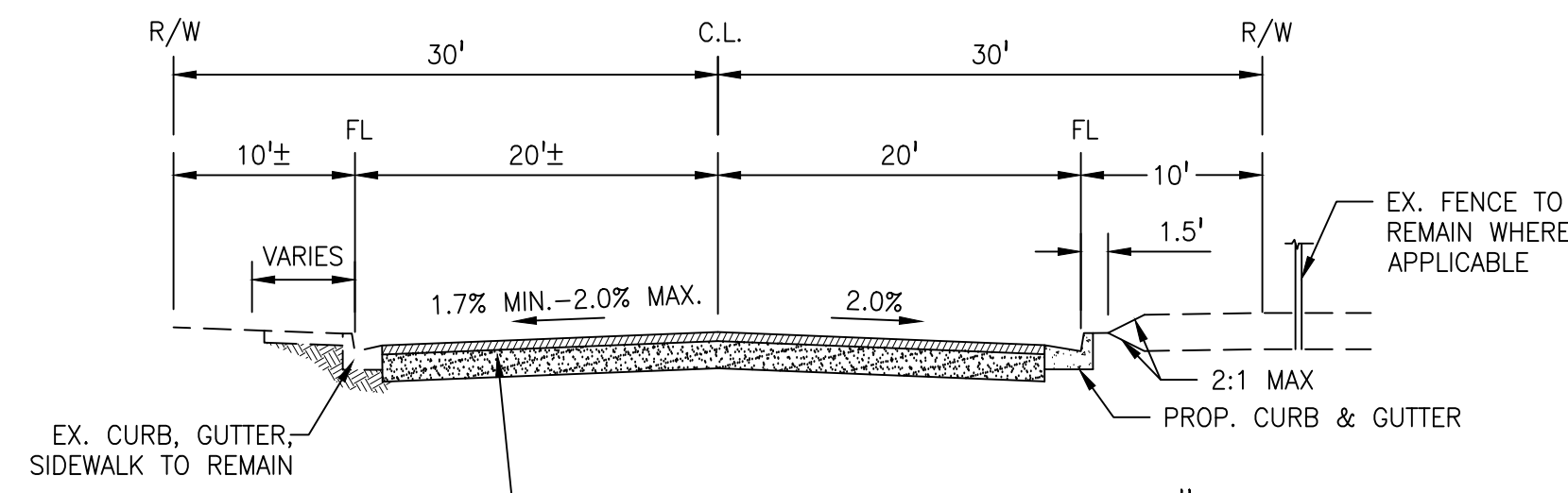
Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

Title
KEY SHEET

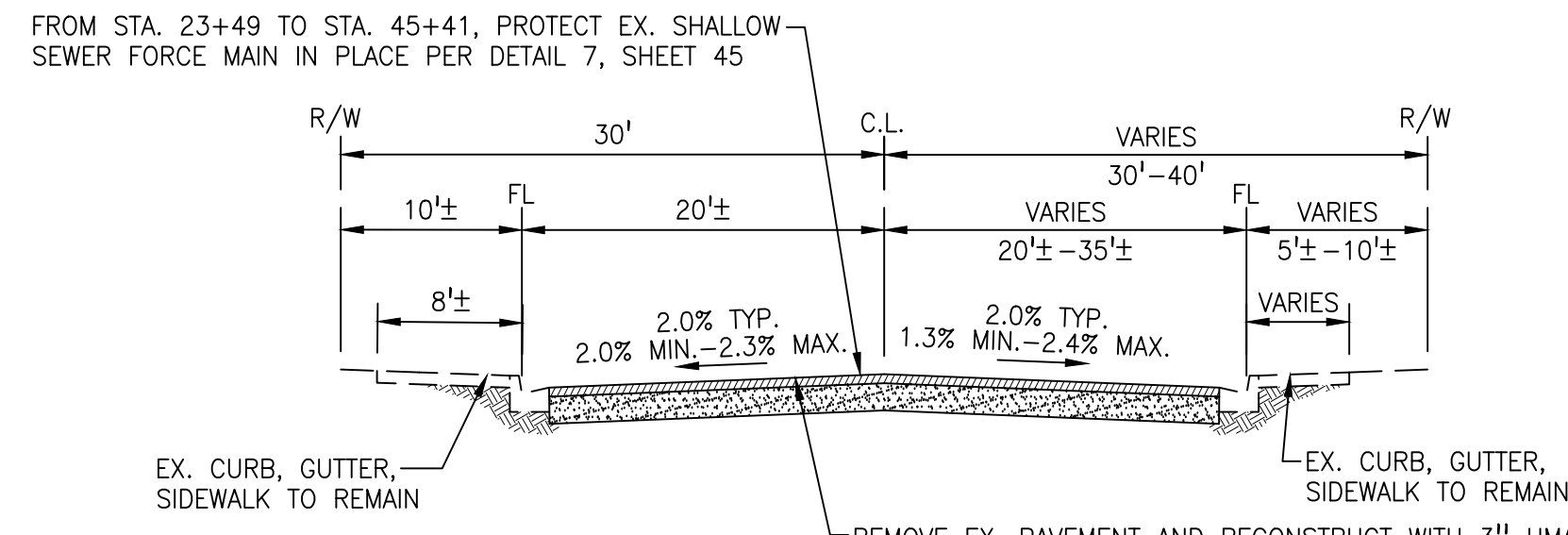
Engineer's Seal

 Robert Christensen
 Engineer's Signature:
 Signature Date: 04.15.2024

811
Know what's below.
Call before you dig.

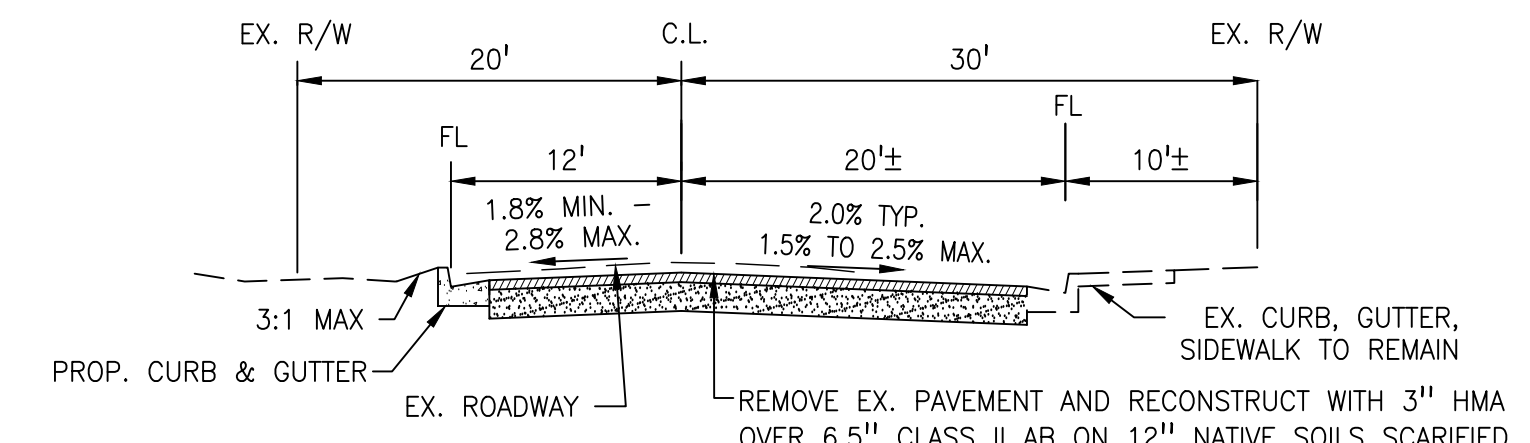
Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 04_KEY
JVP RFC IY 03.26.24
Dwn Chkd. Dsgn. MM-DD-YY



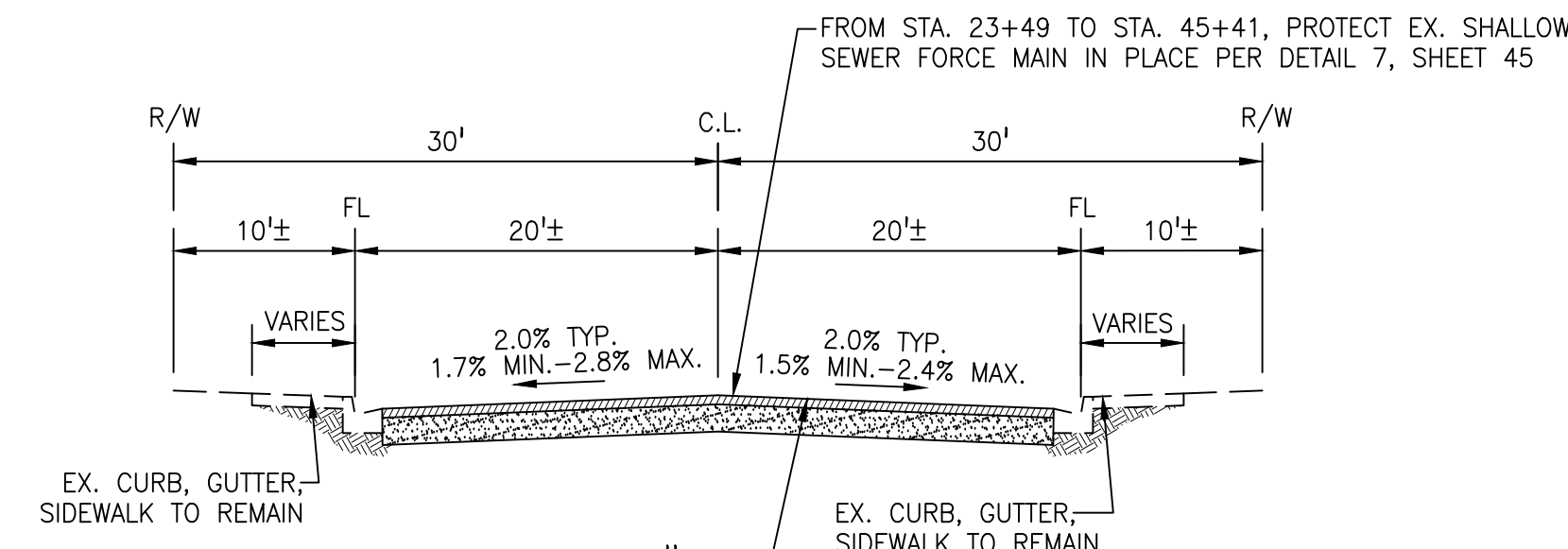
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 STA. 10+46± TO STA. 23+27±
 (N.T.S)



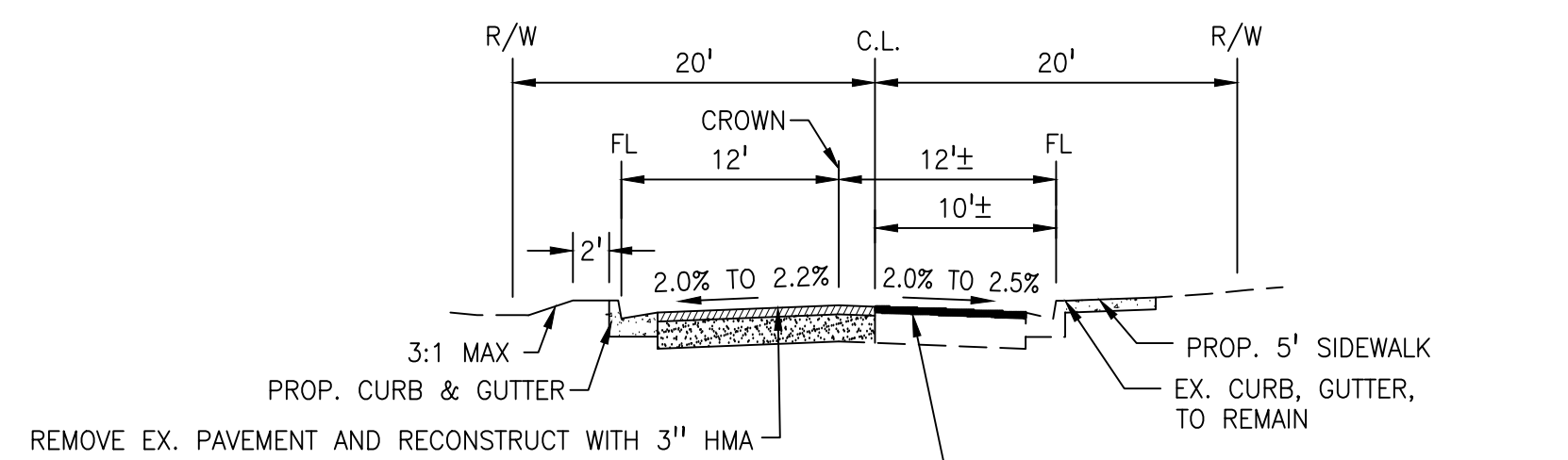
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 STA. 41+70± TO STA. 45+14±
 (N.T.S)



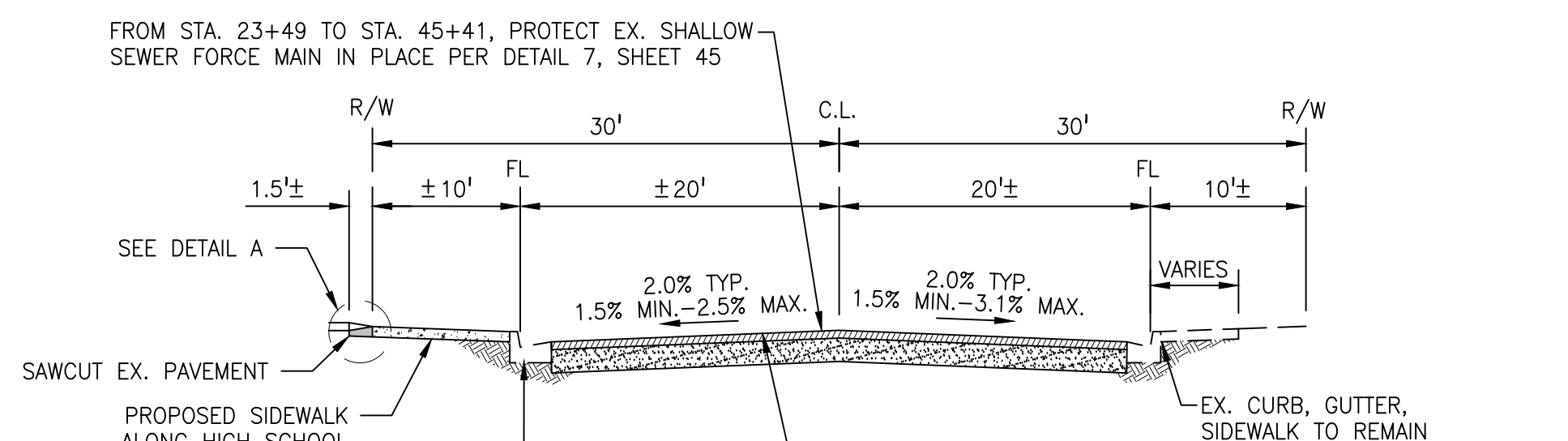
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 STA. 63+12± TO STA. 67+20±
 (N.T.S)



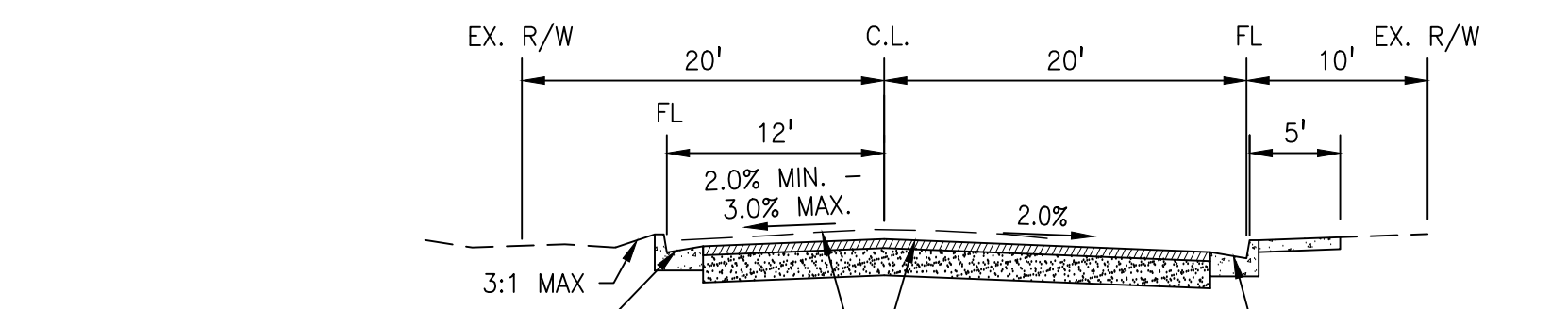
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 STA. 23+27± TO STA. 31+28±
 (N.T.S)



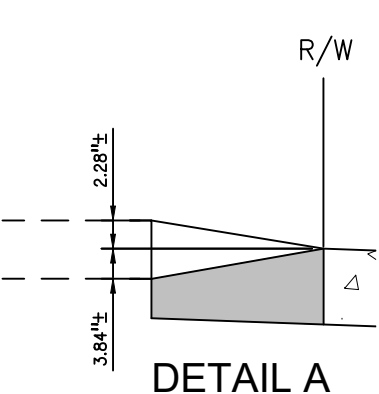
FRUITLAND AVENUE
 STA. 50+82± TO STA. 53+71±
 (N.T.S)



FRUITLAND AVENUE
 STA. 31+28± TO STA. 41+70±
 (N.T.S)



FRUITLAND AVENUE
 STA. 60+71± TO STA. 63+12±
 (N.T.S)



DETAIL A

NOTE: CROSS-SECTIONS ARE TYPICAL, ONLY.
 REFER TO PLAN SHEETS FOR ACTUAL DIMENSIONS.

No.	MM.YY	Revision	By	Appd.

Engineer's Seal

 Robert S. Christensen
 Engineer's Signature:
 Signature Date: 04.15.2024

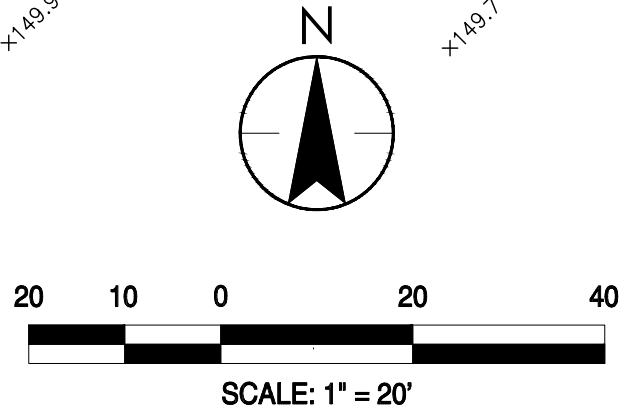
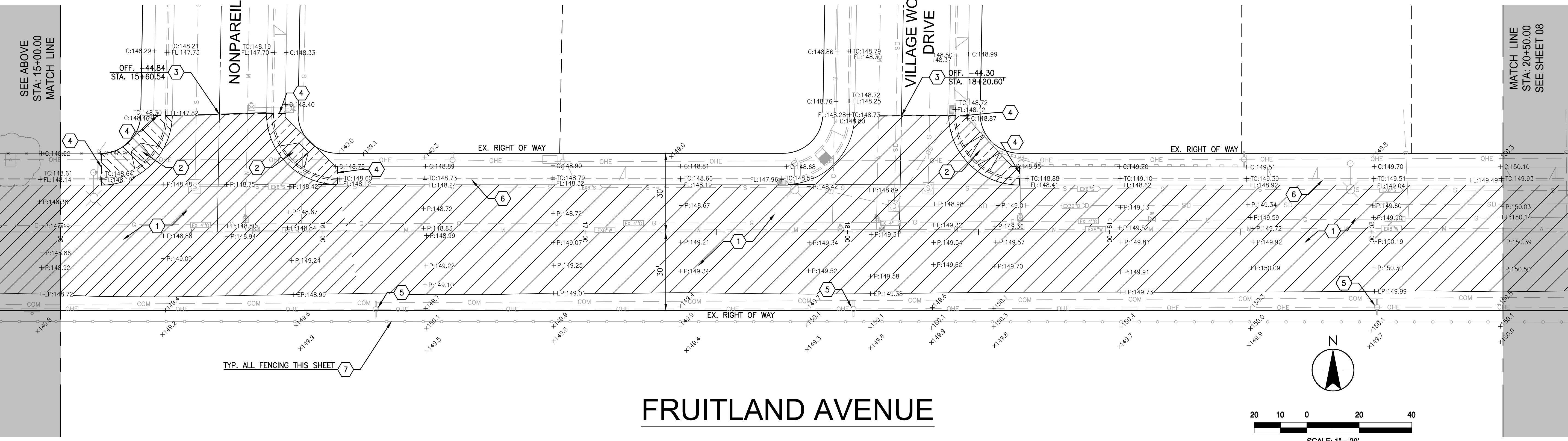
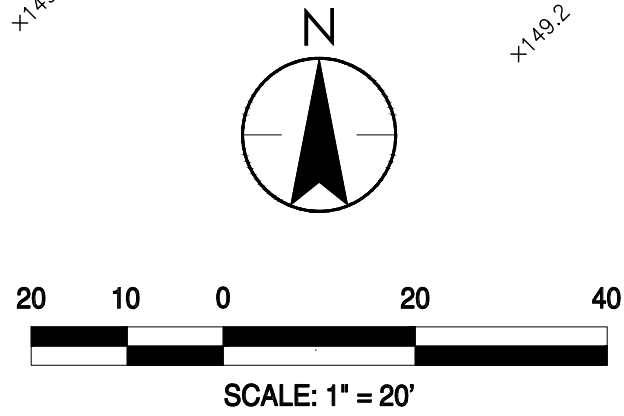
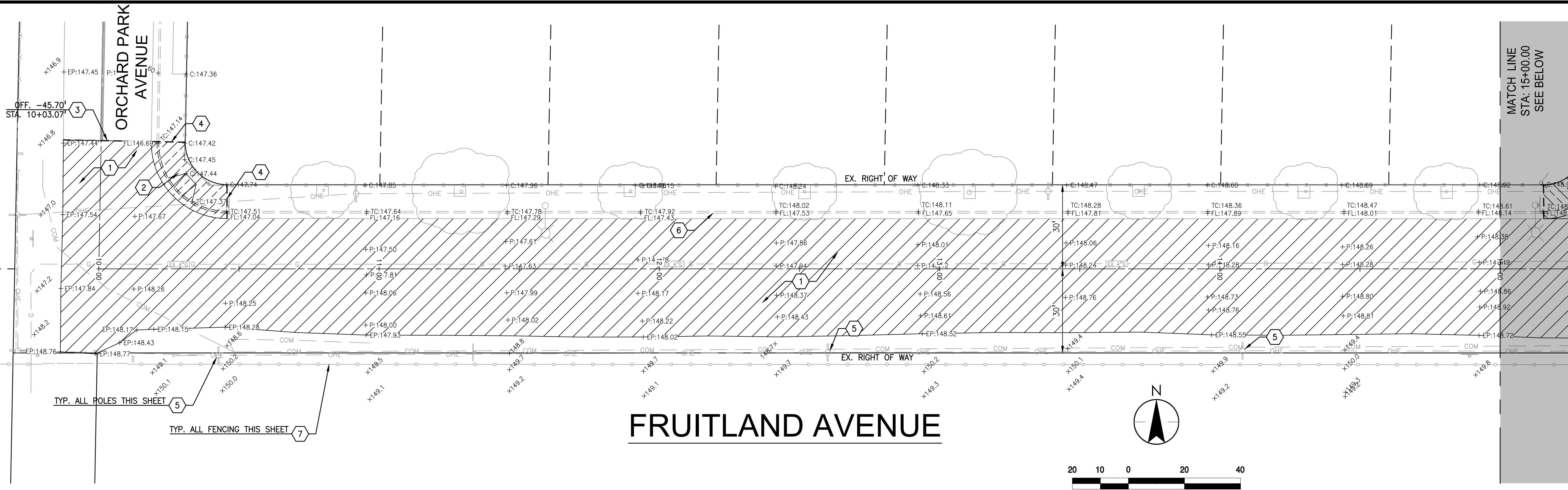
Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 05_XSECTION

JWP	RFC	Y	03.26.24
Dwn.	Chkd.	Dsgn.	MM-DD-YY

Sheet No.

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 ORIGINAL SHEET - ARCH D



FRUITLAND AVENUE

LEGEND

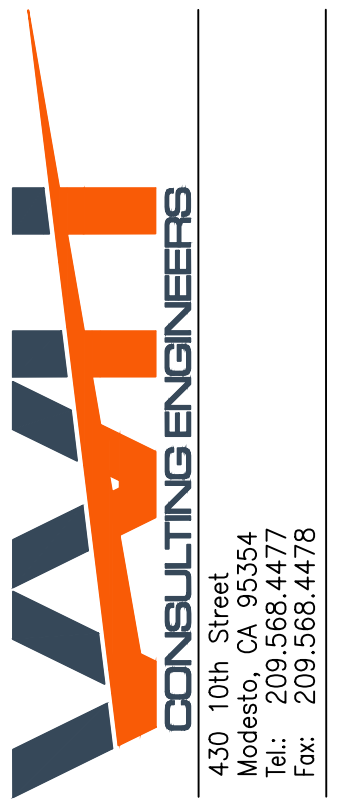
	REMOVE EX. ASPHALT PAVEMENT
	REMOVE EX. CONCRETE

KEY NOTES (#)

1. REMOVE EXISTING ASPHALT PAVEMENT
2. REMOVE EXISTING CONCRETE RETURN AND RAMP
3. SAWCUT EXISTING PAVEMENT
4. SAWCUT EXISTING CONCRETE
5. EXISTING UTILITY POLE TO REMAIN, PROTECT IN PLACE
6. EXISTING CURB, GUTTER & SIDEWALK TO REMAIN
7. EXISTING FENCE TO REMAIN

DEMOLITION GENERAL NOTES

1. EXISTING A.C. PAVING AND/OR CONCRETE SHALL BE CUT TO A NEAT, STRAIGHT LINE (WHEN APPLICABLE). ALL EXPOSED VERTICAL SURFACES SHALL BE TACK COATED BELOW FINISH GRADE LINE WITH ASPHALT EMULSION PRIOR TO PAVING.
2. ALL SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR, IF DAMAGED, RESET BY A LICENSED LAND SURVEYOR.
3. LIMITS OF WORK AS SHOWN ARE APPROXIMATE.
4. ALL EXISTING TREES TO REMAIN UNLESS NOTED OTHERWISE.
5. UNLESS OTHERWISE NOTED, ALL UTILITY STRUCTURES SUCH AS WATER VALVES, HYDRANTS, MANHOLES, CATCH BASINS, METER BOXES, OR VAULTS ARE TO REMAIN, AND MUST BE PROTECTED IN PLACE DURING DEMOLITION ACTIVITIES. ADJUST STRUCTURES TO FINISH GRADE WITH FINAL PAVEMENT AND COORDINATE ADJUSTMENT TO FINISH GRADE WITH RESPECTIVE UTILITY COMPANIES.
6. UNLESS OTHERWISE NOTED, ALL EXISTING CONCRETE CURB, GUTTER AND SIDEWALK IS TO REMAIN AND PROTECTED IN PLACE.



No.	MM.YY	Description	By	Appl.

Client/Project
 CITY OF ATWATER
 FRUITLAND AVENUE
 RECONSTRUCTION PROJECT PHASE III
 BID CALL NUMBER: 725-24
 CITY PROJECT NUMBER: 16-2-3
 ATWATER, CALIFORNIA

Engineer's Seal

 Robert S. Christensen

Engineer's Signature:
 Signature Date: 04.15.2024



Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 07_TOPO&DEMO
 JVP: RFC JY 03.26.24
 Dwn: Chkd. Dsgn. MM-00-YY
 Sheet No.

No.	MM.YY	Description	By	Appd.

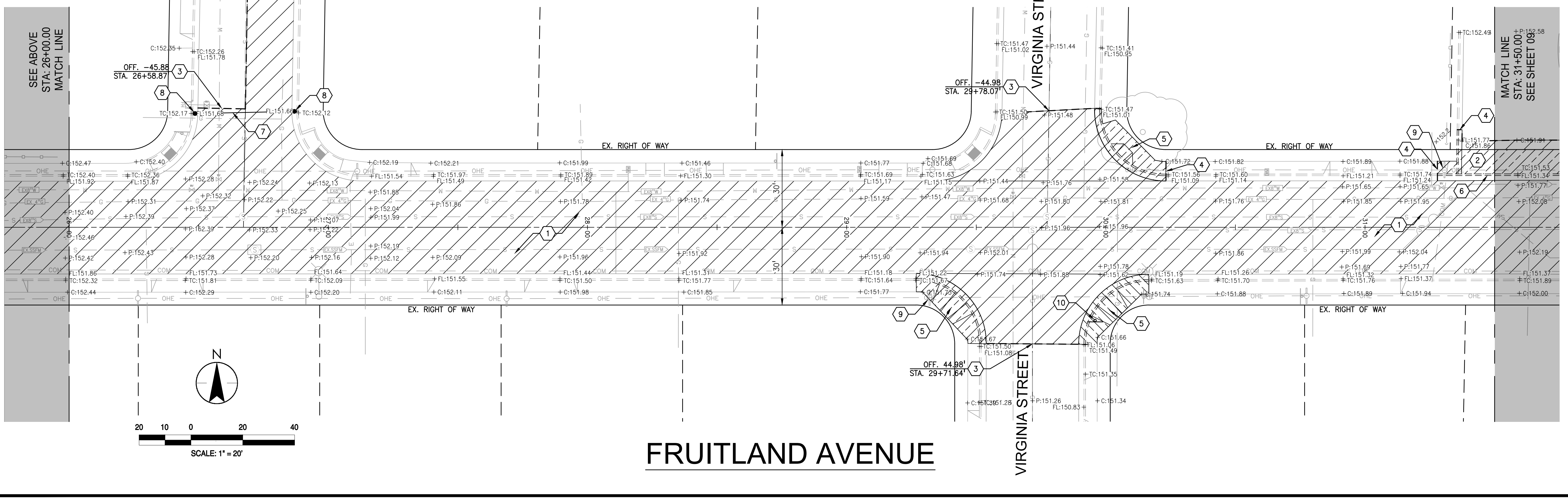
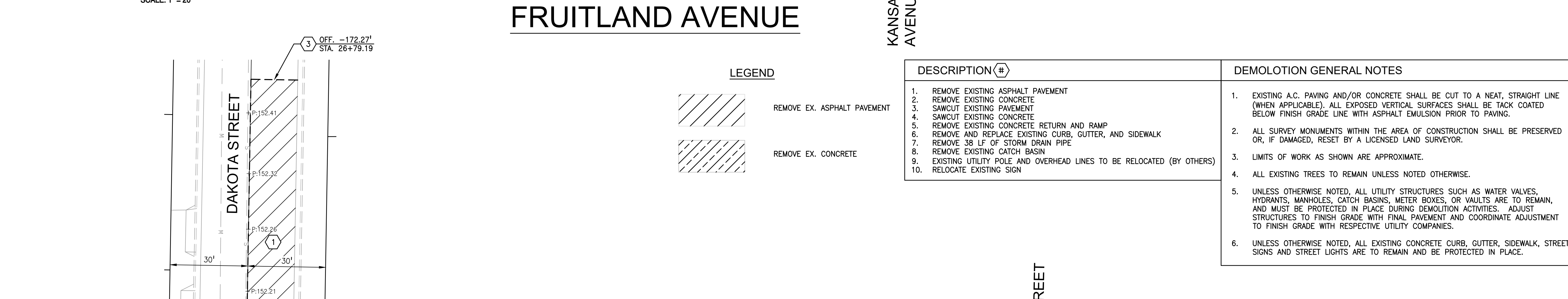
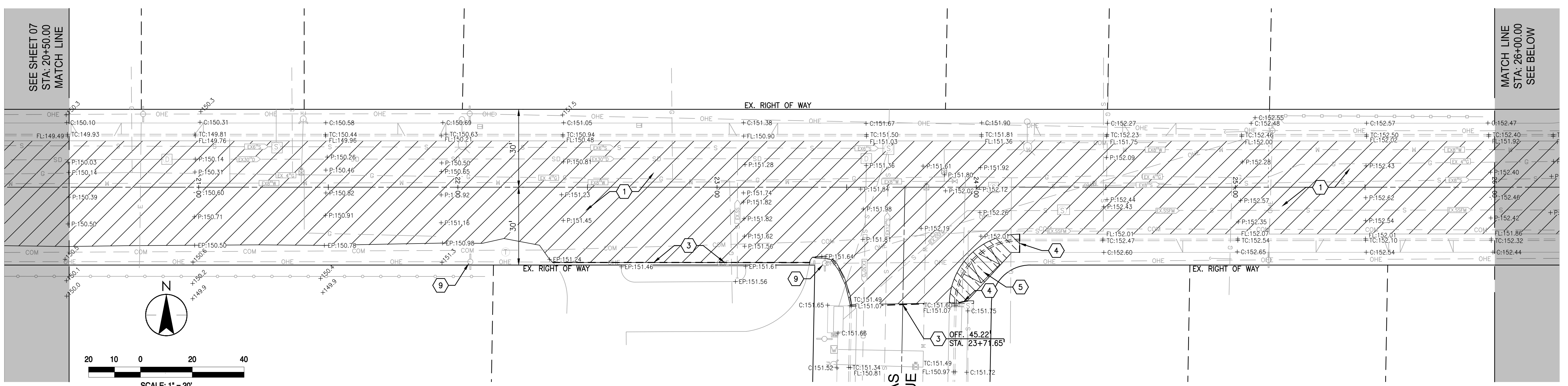
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Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

Title
EXISTING TOPOGRAPHY & DEMOLITION PLAN

Engineer's Seal
REGISTERED PROFESSIONAL ENGINEER
ROBERT FRANCIS CHRISTENSEN
CIVIL
STATE OF CALIFORNIA
EXP. 06-30-24
Signature Date: 04.15.2024

811
Know what's below.
Call before you dig.
Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 08_TOPO&DEMO
JVP RFC IY 03.26.24
Dwn Chkd. Dgmn. MM.DD.YY
Sheet No.



FRUITLAND AVENUE

LEGEND

	REMOVE EX. ASPHALT PAVEMENT
	REMOVE EX. CONCRETE

DESCRIPTION #

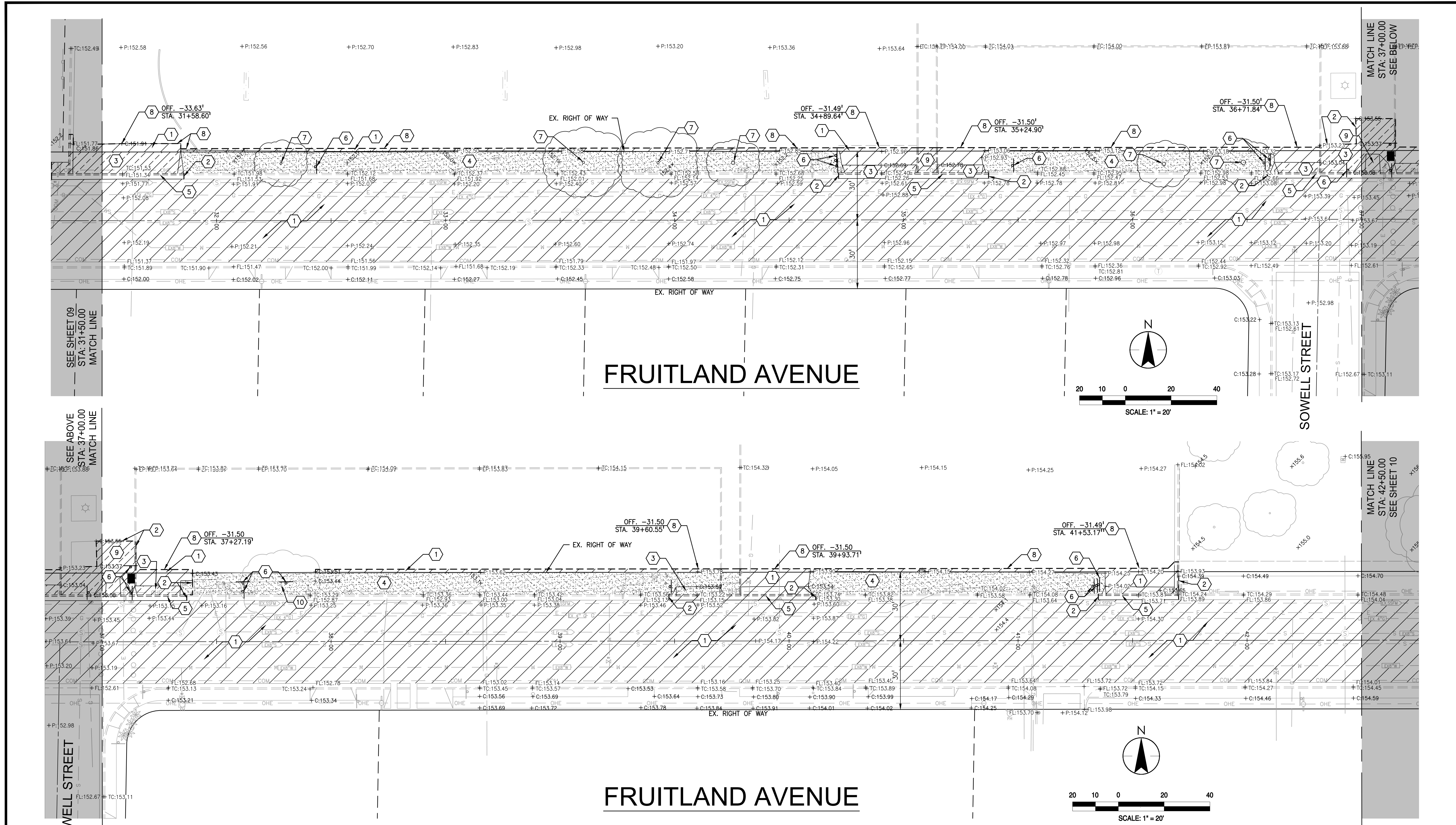
- REMOVE EXISTING ASPHALT PAVEMENT
- REMOVE EXISTING CONCRETE
- SAWCUT EXISTING PAVEMENT
- SAWCUT EXISTING CONCRETE
- REMOVE EXISTING CONCRETE RETURN AND RAMP
- REMOVE AND REPLACE EXISTING CURB, GUTTER, AND SIDEWALK
- REMOVE 38 LF OF STORM DRAIN PIPE
- REMOVE EXISTING CATCH BASIN
- EXISTING UTILITY POLE AND OVERHEAD LINES TO BE RELOCATED (BY OTHERS)
- RELOCATE EXISTING SIGN

DEMOLITION GENERAL NOTES

- EXISTING A.C. PAVING AND/OR CONCRETE SHALL BE CUT TO A NEAT, STRAIGHT LINE (WHEN APPLICABLE). ALL EXPOSED VERTICAL SURFACES SHALL BE TACK COATED BELOW FINISH GRADE LINE WITH ASPHALT EMULSION PRIOR TO PAVING.
- ALL SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR, IF DAMAGED, RESET BY A LICENSED LAND SURVEYOR.
- LIMITS OF WORK AS SHOWN ARE APPROXIMATE.
- ALL EXISTING TREES TO REMAIN UNLESS NOTED OTHERWISE.
- UNLESS OTHERWISE NOTED, ALL UTILITY STRUCTURES SUCH AS WATER VALVES, HYDRANTS, MANHOLES, CATCH BASINS, METER BOXES, OR VAULTS ARE TO REMAIN, AND MUST BE PROTECTED IN PLACE DURING DEMOLITION ACTIVITIES. ADJUST STRUCTURES TO FINISH GRADE WITH FINAL PAVEMENT AND COORDINATE ADJUSTMENT TO FINISH GRADE WITH RESPECTIVE UTILITY COMPANIES.
- UNLESS OTHERWISE NOTED, ALL EXISTING CONCRETE CURB, GUTTER, SIDEWALK, STREET SIGNS AND STREET LIGHTS ARE TO REMAIN AND BE PROTECTED IN PLACE.

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ORIGINAL SHEET - ARCH D



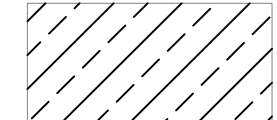
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2023-04-15 15:33:59



FRUITLAND AVENUE

FRUITLAND AVENUE

LEGEND

-  REMOVE EX. LANDSCAPING AS REQUIRED FOR CONSTRUCTION OF PROP. IMPROVEMENTS
-  REMOVE EX. ASPHALT PAVEMENT
-  REMOVE EX. CONCRETE

KEY NOTES

1. REMOVE EXISTING ASPHALT PAVEMENT
2. SAWCUT EXISTING CONCRETE
3. REMOVE EXISTING CONCRETE DRIVEWAY
4. FROM STA:31+28 TO STA:41+70, REMOVE EX. LANDSCAPING AND DRIVEWAYS ALONG SCHOOL FRONTAGE FOR CONSTRUCTION OF PROPOSED SIDEWALK. PROTECT EX. UTILITY POLES AND UTILITY STRUCTURES IN PLACE UNLESS OTHERWISE NOTED. EXISTING UTILITY STRUCTURES ARE TO BE ADJUSTED TO FINISHED GRADE WITH CONSTRUCTION OF PROPOSED IMPROVEMENTS.
5. REMOVE AND REPLACE EXISTING CURB AND GUTTER
6. RELOCATE EXISTING SIGN
7. REMOVE EXISTING TREE
8. SAWCUT EXISTING ASPHALT PAVEMENT
9. REMOVE EXISTING CONCRETE
10. EXISTING TREE TO REMAIN, PROTECT IN PLACE

DESCRIPTION

1. EXISTING A.C. PAVING AND/OR CONCRETE SHALL BE CUT TO A NEAT, STRAIGHT LINE (WHEN APPLICABLE). ALL EXPOSED VERTICAL SURFACES SHALL BE TACK COATED BELOW FINISH GRADE LINE WITH ASPHALT EMULSION PRIOR TO PAVING.
2. ALL SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR, IF DAMAGED, RESET BY A LICENSED LAND SURVEYOR.
3. LIMITS OF WORK AS SHOWN ARE APPROXIMATE.
4. ALL EXISTING TREES TO REMAIN UNLESS NOTED OTHERWISE.
5. UNLESS OTHERWISE NOTED, ALL UTILITY STRUCTURES SUCH AS WATER VALVES, HYDRANTS, MANHOLES, CATCH BASINS, METER BOXES, OR VAULTS ARE TO REMAIN, AND MUST BE PROTECTED IN PLACE DURING DEMOLITION ACTIVITIES. ADJUST STRUCTURES TO FINISH GRADE WITH FINAL PAVEMENT AND COORDINATE ADJUSTMENT TO FINISH GRADE WITH RESPECTIVE UTILITY COMPANIES.
6. UNLESS OTHERWISE NOTED, ALL EXISTING CONCRETE CURB, GUTTER AND SIDEWALK IS TO REMAIN AND PROTECTED IN PLACE.



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No.	MM.YY	Description	By	Appd.

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA


Title
EXISTING TOPOGRAPHY & DEMOLITION PLAN

Engineer's Seal



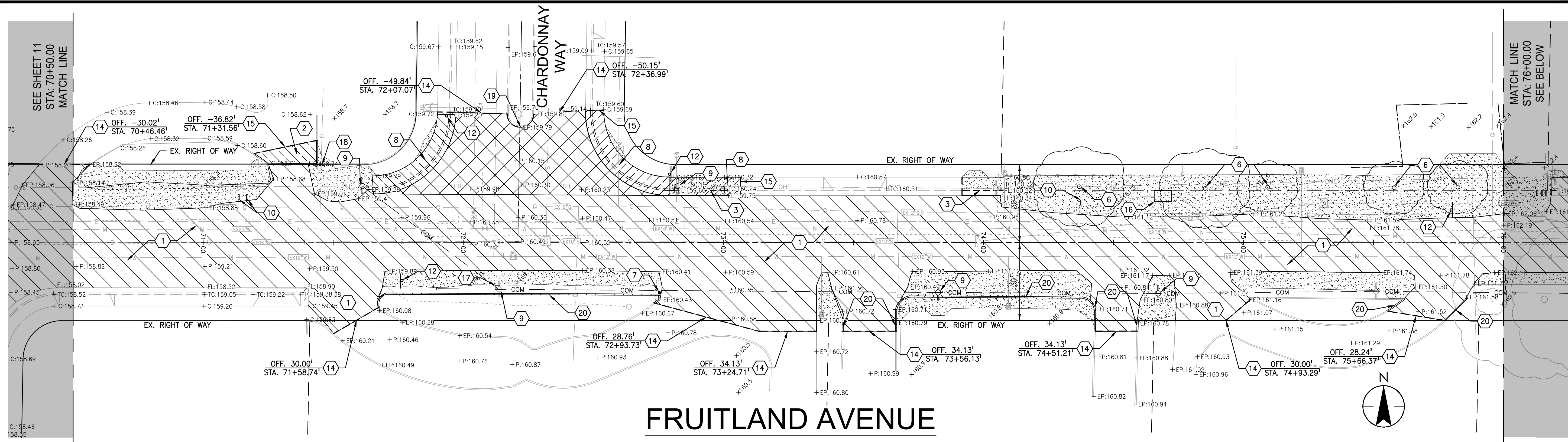
Robert S. Christensen

Engineer's Signature:
Signature Date: 04.15.2024

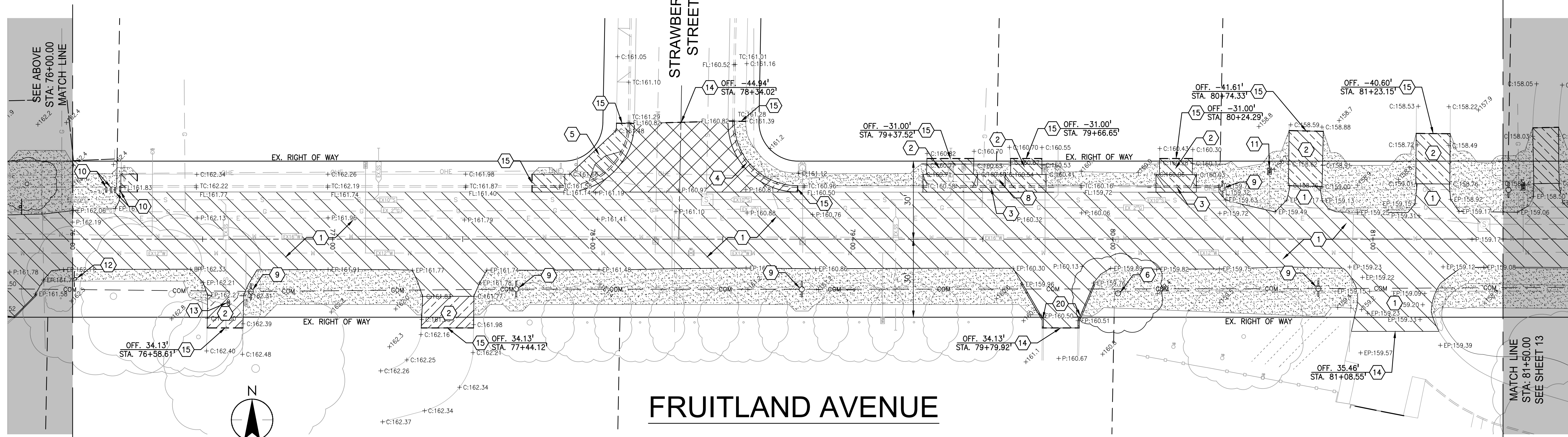
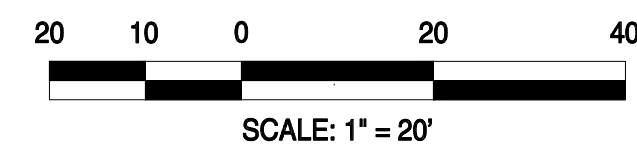


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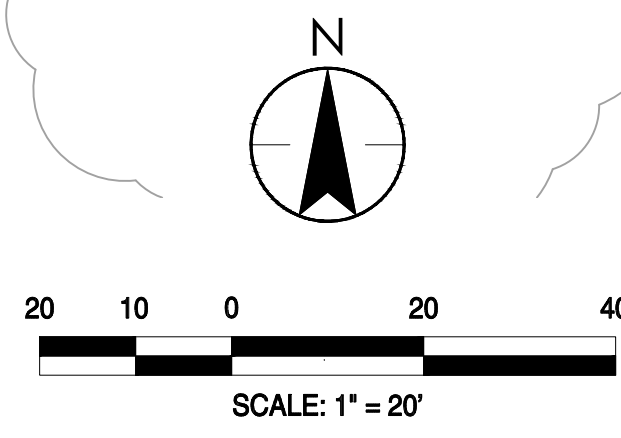
Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 09_TOPO&DEMO
JVP RFC IY 03.26.24
Dwn Chkd. Dgmn. MM.DD.YY
Sheet No.



FRUITLAND AVENUE



FRUITLAND AVENUE



LEGEND

- REMOVE EX. ASPHALT PAVEMENT
- REMOVE EX. CONCRETE
- GRIND EX. ASPHALT PAVEMENT, MIN. 2"
- AREA OF CLEARING BEYOND AREAS OF EX. PAVEMENT REMOVAL

KEY NOTES

1. REMOVE EXISTING ASPHALT PAVEMENT
2. REMOVE EXISTING CONCRETE DRIVEWAY
3. REMOVE EXISTING CURB, GUTTER, AND SIDEWALK
4. REMOVE EXISTING CURB AND GUTTER
5. REMOVE EXISTING CONCRETE RETURN AND RAMP
6. REMOVE EXISTING TREE
7. REMOVE EXISTING BOLLARD
8. REMOVE EXISTING CONCRETE
9. RELOCATE EXISTING UTILITY POLE AND OVERHEAD LINES (DONE BY OTHERS)
10. RELOCATE EXISTING MAILBOX
11. RELOCATE EXISTING WATER METER
12. RELOCATE EXISTING SIGN
13. RELOCATE EXISTING SANITARY SEWER CLEAN OUT
14. SAWCUT EXISTING PAVEMENT
15. SAWCUT EXISTING CONCRETE
16. RELOCATE EXISTING ELECTRICAL VAULT
17. RELOCATE EXISTING PEDESTAL
18. RELOCATE EXISTING PULLBOX
19. EX. MEDIAN TO REMAIN AND PROTECT IN PLACE
20. REMOVE EXISTING CURB

DEMOLITION GENERAL NOTES

1. EXISTING A.C. PAVING AND/OR CONCRETE SHALL BE CUT TO A NEAT, STRAIGHT LINE (WHEN APPLICABLE). ALL EXPOSED VERTICAL SURFACES SHALL BE TACK COATED BELOW FINISH GRADE LINE WITH ASPHALT EMULSION PRIOR TO PAVING.
2. ALL SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR, IF DAMAGED, RESET BY A LICENSED LAND SURVEYOR.
3. LIMITS OF WORK AS SHOWN ARE APPROXIMATE.
4. ALL EXISTING TREES TO REMAIN UNLESS NOTED OTHERWISE.
5. UNLESS OTHERWISE NOTED, ALL UTILITY STRUCTURES SUCH AS WATER VALVES, HYDRANTS, MANHOLES, CATCH BASINS, METER BOXES, OR VAULTS ARE TO REMAIN, AND MUST BE PROTECTED IN PLACE DURING DEMOLITION ACTIVITIES. ADJUST STRUCTURES TO FINISH GRADE WITH FINAL PAVEMENT AND COORDINATE ADJUSTMENT TO FINISH GRADE WITH RESPECTIVE UTILITY COMPANIES.
6. UNLESS OTHERWISE NOTED, ALL EXISTING CONCRETE CURB, GUTTER AND SIDEWALK IS TO REMAIN AND PROTECTED IN PLACE.

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Modesto, CA 95354
Tel.: 209.588.4477
Fax: 209.588.4478

No.	MM.YY	Description	By	Appd.

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-23
ATWATER, CALIFORNIA

Title
EXISTING TOPOGRAPHY & DEMOLITION PLAN

Engineer's Seal

 Robert S. Christensen
 Signature Date: 04.15.2024


811
Know what's below.
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Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 12_TOP&DEMO
 JVP: RFC IY 03.26.24
 Dwn: Chkd. Dgmn. MM-DD-YY
 Sheet No.

No.	MM.YY	Description	By	App'd.

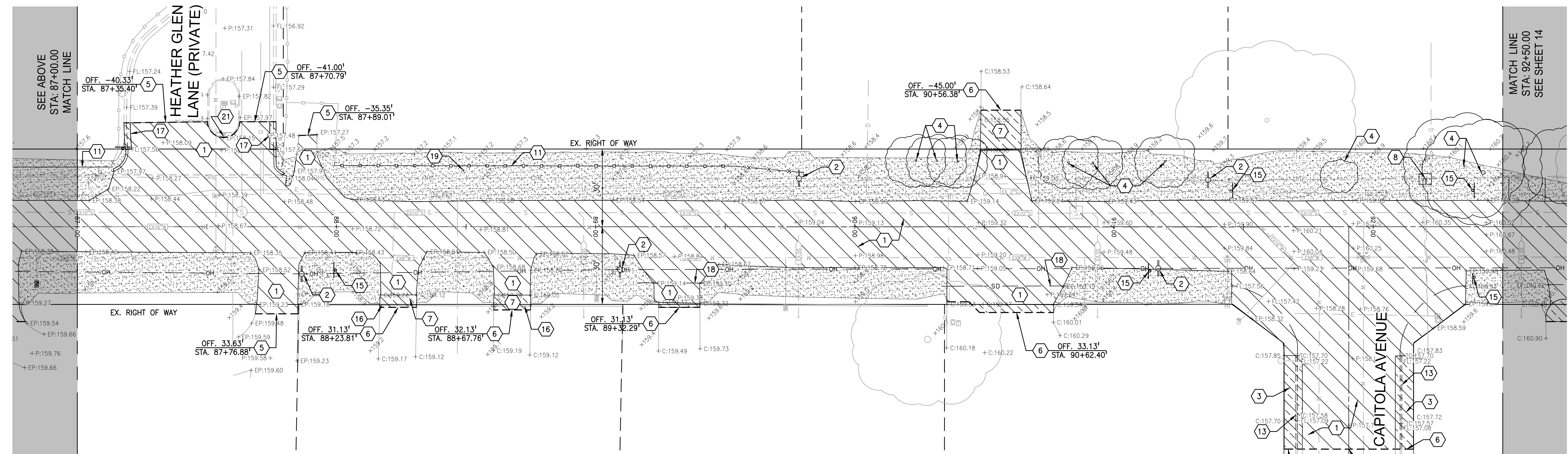
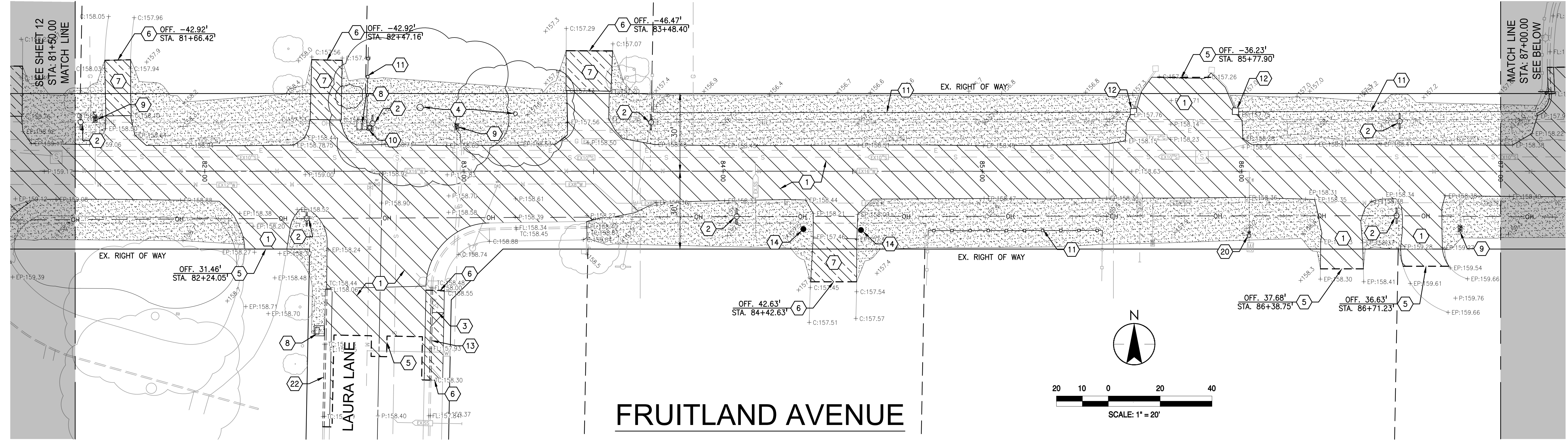
Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
 BID CALL NUMBER: 725-24
 CITY PROJECT NUMBER: 16-2-3
 ATWATER, CALIFORNIA

Title
EXISTING TOPOGRAPHY & DEMOLITION PLAN





Engineer's Seal

 Robert S. Christensen
 Engineer's Signature:
 Signature Date: 04.15.2024

811
 Know what's below.
 Call before you dig.

Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 13_TOP&DEMO
 JVP: RFC IY 03.26.24
 Dwn: Chkd. Dgmn. MM.DD.YY
 Sheet No.



LEGEND

	REMOVE EX. ASPHALT PAVEMENT
	REMOVE EX. CONCRETE
	GRIND EX. ASPHALT PAVMENT, MIN. 2"
	AREA OF CLEARING BEYOND AREAS OF EX. PAVEMENT REMOVAL

Scale: 1" = 20'

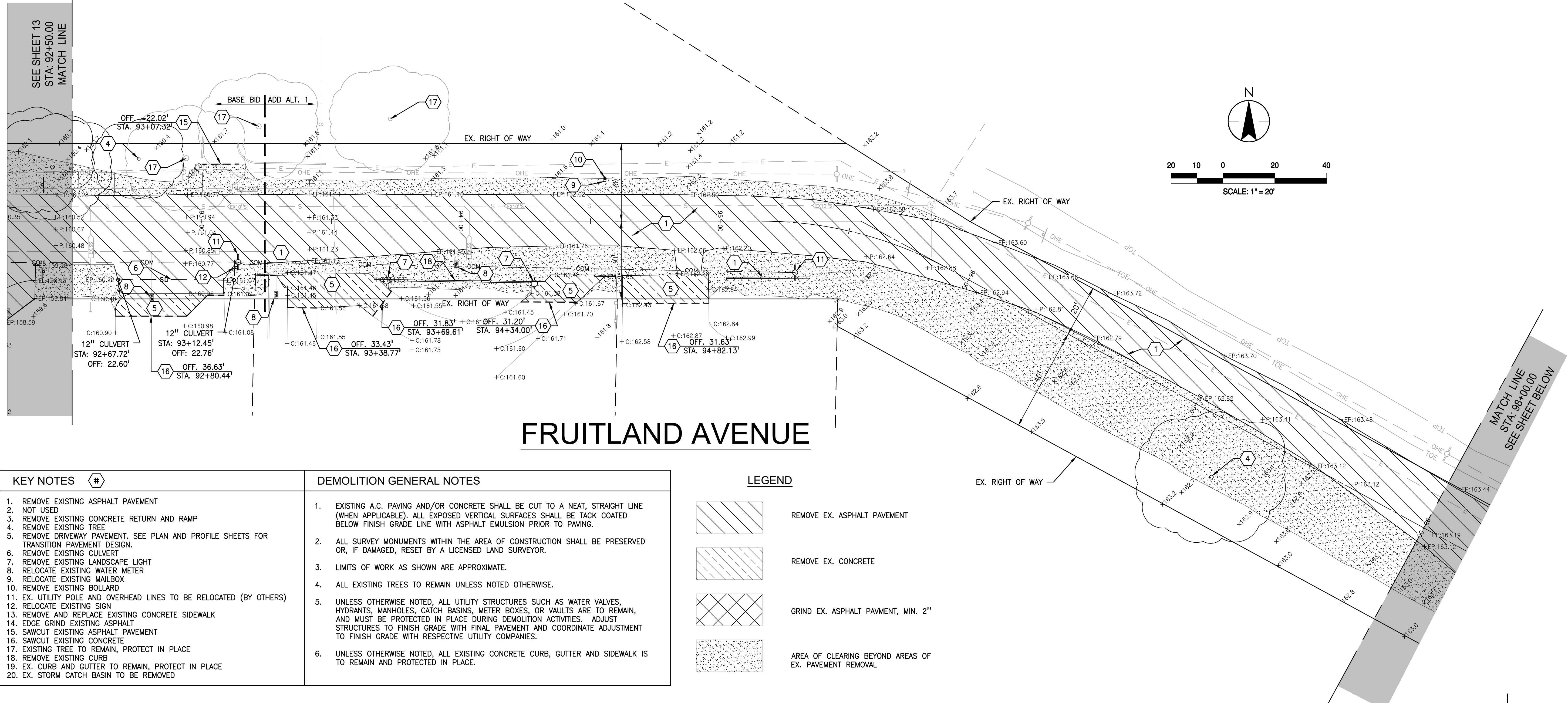
FRUITLAND AVENUE

- KEY NOTES**
- REMOVE EXISTING ASPHALT PAVEMENT
 - EX. UTILITY POLE AND OVERHEAD LINES TO BE RELOCATED (BY OTHERS).
 - REMOVE EXISTING CONCRETE
 - REMOVE EXISTING TREE
 - SAWCUT EXISTING PAVEMENT
 - SAWCUT EXISTING CONCRETE
 - REMOVE EXISTING CONCRETE DRIVEWAY
 - RELOCATE EXISTING MAILBOX
 - RELOCATE EXISTING WATER METER
 - RELOCATE EXISTING PULLBOX
 - REMOVE EXISTING FENCE
 - REMOVE EXISTING BRICK COLUMN
 - REMOVE AND REPLACE EXISTING CURB, GUTTER, AND SIDEWALK.
 - REMOVE EXISTING BOLLARDS
 - RELOCATE EXISTING SIGN
 - RELOCATE EXISTING GATE
 - REMOVE AND REPLACE EXISTING CURB AND GUTTER.
 - REMOVE EXISTING CULVERT
 - RELOCATE EXISTING SPRINKLER
 - RELOCATE EXISTING BLOW-OFF
 - EXISTING MEDIAN CURB TO REMAIN, PROTECT FROM HARM
 - REMOVE EXISTING CURB & GUTTER

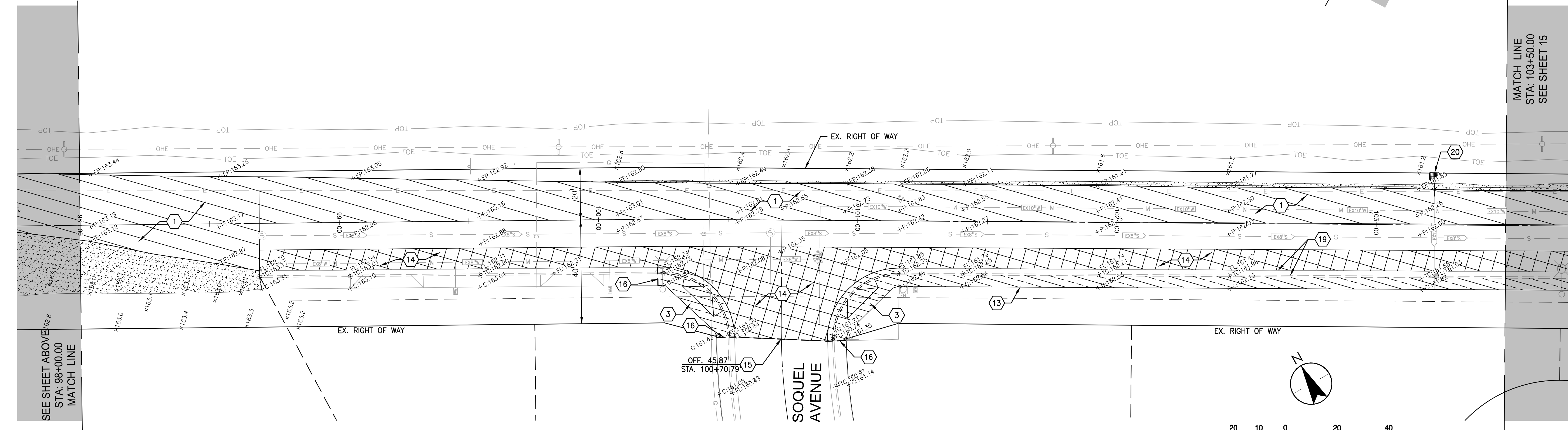
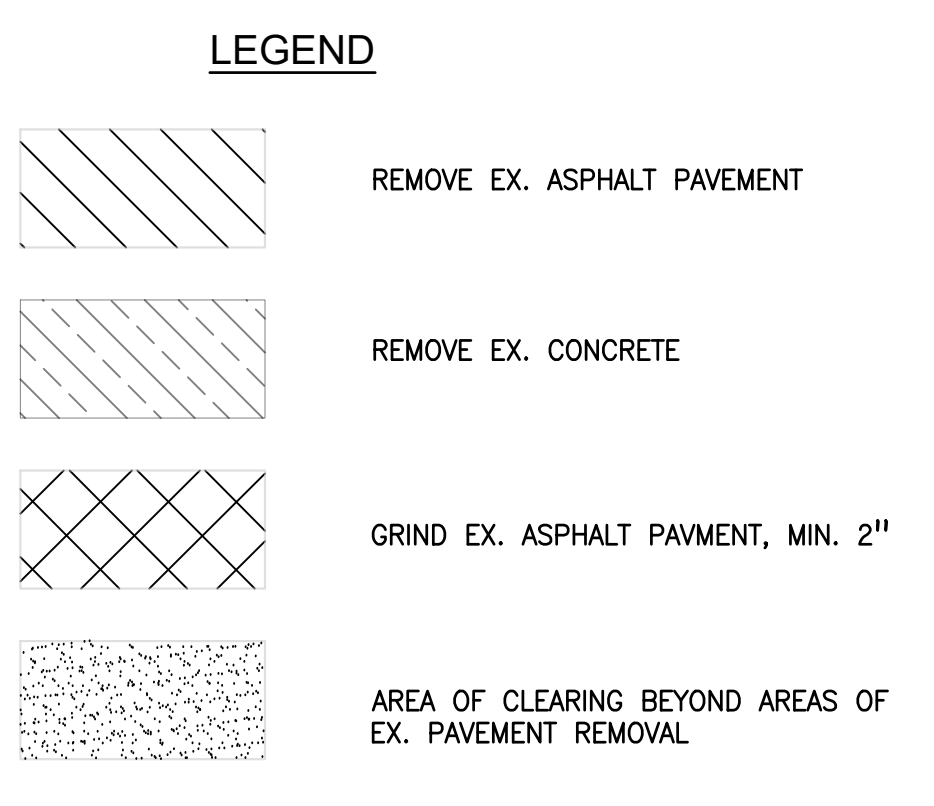
- DEMOLITION GENERAL NOTES**
- EXISTING A.C. PAVING AND/OR CONCRETE SHALL BE CUT TO A NEAT, STRAIGHT LINE (WHEN APPLICABLE). ALL EXPOSED VERTICAL SURFACES SHALL BE TACK COATED BELOW FINISH GRADE LINE WITH ASPHALT EMULSION PRIOR TO PAVING.
 - REFER TO PROJECT SPECIFICATIONS FOR REQUIREMENTS REGARDING SURVEY MONUMENT PRESERVATION.
 - LIMITS OF WORK AS SHOWN ARE APPROXIMATE.
 - ALL EXISTING TREES TO REMAIN UNLESS NOTED OTHERWISE.
 - UNLESS OTHERWISE NOTED, ALL UTILITY STRUCTURES SUCH AS WATER VALVES, HYDRANTS, MANHOLES, CATCH BASINS, METER BOXES, OR VAULTS ARE TO REMAIN, AND MUST BE PROTECTED IN PLACE DURING DEMOLITION ACTIVITIES. ADJUST STRUCTURES TO FINISH GRADE WITH FINAL PAVEMENT AND COORDINATE ADJUSTMENT TO FINISH GRADE WITH RESPECTIVE UTILITY COMPANIES.
 - UNLESS OTHERWISE NOTED, ALL EXISTING CONCRETE CURB, GUTTER AND SIDEWALK IS TO REMAIN AND PROTECTED IN PLACE.
 - EXISTING SEWER AND WATER LATERALS ARE SHOWN IN ASSUMED LOCATIONS ONLY. LOCATE EXISTING LATERALS BOTH VERTICALLY AND HORIZONTALLY PRIOR TO TRENCHING.
 - EXISTING UNDERGROUND ELECTRIC, GAS, AND COMMUNICATION LINES ARE SHOWN IN ASSUMED LOCATIONS ONLY. LOCATE EXISTING UNDERGROUND UTILITIES BOTH VERTICALLY AND HORIZONTALLY PRIOR TO TRENCHING.

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 2023-04-15 11:15 AM
 ORIGINAL SHEET - ARCH D



KEY NOTES	DEMOLITION GENERAL NOTES
<ol style="list-style-type: none"> REMOVE EXISTING ASPHALT PAVEMENT NOT USED REMOVE EXISTING CONCRETE RETURN AND RAMP REMOVE EXISTING TREE REMOVE DRIVEWAY PAVEMENT. SEE PLAN AND PROFILE SHEETS FOR TRANSITION PAVEMENT DESIGN. REMOVE EXISTING CULVERT REMOVE EXISTING LANDSCAPE LIGHT RELOCATE EXISTING WATER METER RELOCATE EXISTING MAILBOX REMOVE EXISTING BOLLARD EX. UTILITY POLE AND OVERHEAD LINES TO BE RELOCATED (BY OTHERS) RELOCATE EXISTING SIGN REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK EDGE GRIND EXISTING ASPHALT SAWCUT EXISTING ASPHALT PAVEMENT SAWCUT EXISTING CONCRETE EXISTING TREE TO REMAIN, PROTECT IN PLACE REMOVE EXISTING CURB EX. CURB AND GUTTER TO REMAIN, PROTECT IN PLACE EX. STORM CATCH BASIN TO BE REMOVED 	<ol style="list-style-type: none"> EXISTING A.C. PAVING AND/OR CONCRETE SHALL BE CUT TO A NEAT, STRAIGHT LINE (WHEN APPLICABLE). ALL EXPOSED VERTICAL SURFACES SHALL BE TACK COATED BELOW FINISH GRADE LINE WITH ASPHALT EMULSION PRIOR TO PAVING. ALL SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR, IF DAMAGED, RESET BY A LICENSED LAND SURVEYOR. LIMITS OF WORK AS SHOWN ARE APPROXIMATE. ALL EXISTING TREES TO REMAIN UNLESS NOTED OTHERWISE. UNLESS OTHERWISE NOTED, ALL UTILITY STRUCTURES SUCH AS WATER VALVES, HYDRANTS, MANHOLES, CATCH BASINS, METER BOXES, OR VAULTS ARE TO REMAIN, AND MUST BE PROTECTED IN PLACE DURING DEMOLITION ACTIVITIES. ADJUST STRUCTURES TO FINISH GRADE WITH FINAL PAVEMENT AND COORDINATE ADJUSTMENT TO FINISH GRADE WITH RESPECTIVE UTILITY COMPANIES. UNLESS OTHERWISE NOTED, ALL EXISTING CONCRETE CURB, GUTTER AND SIDEWALK IS TO REMAIN AND PROTECTED IN PLACE.



FRUITLAND AVENUE

430 10th Street
 Modesto, CA 95354
 Tel.: 209.588.4477
 Fax: 209.588.4478

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No.	MM/YY	Description	By	Appd.

Client/Project
 CITY OF ATWATER
 FRUITLAND AVENUE
 RECONSTRUCTION PROJECT PHASE III
 BID CALL NUMBER: 725-24
 CITY PROJECT NUMBER: 16-2-3
 ATWATER, CALIFORNIA

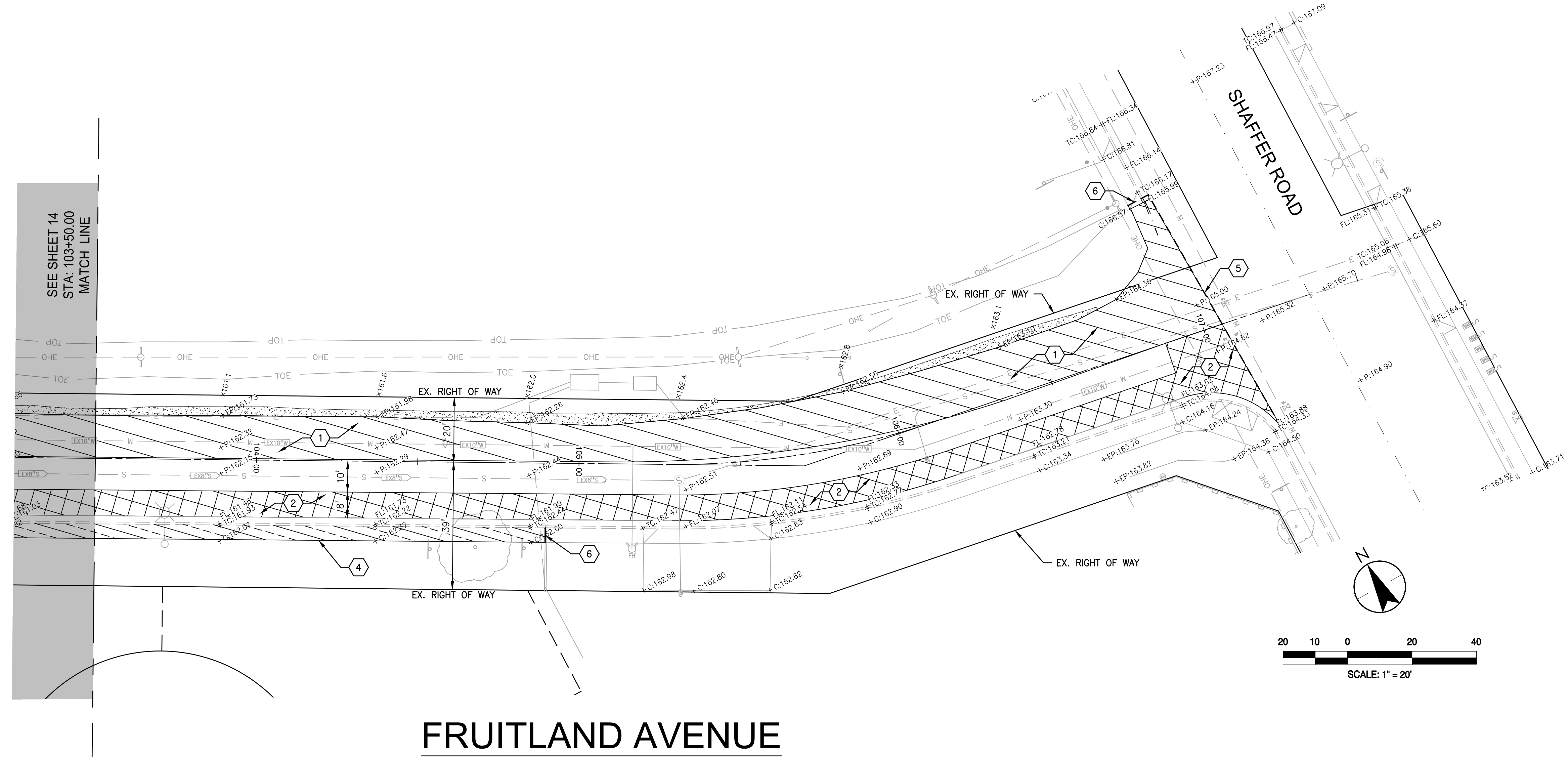
Title
EXISTING TOPOGRAPHY & DEMOLITION PLAN

Engineer's Seal

Robert S. Christensen
 Engineer's Signature:
 Signature Date: 04.15.2024

Know what's below.
Call before you dig.

Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 14_TOPO&DEMO
 JVP: RFC IY 03.26.24
 Dwn: Chkd. Dagn. MM-DD-YY
 Sheet No.



FRUITLAND AVENUE

KEY NOTES

1. REMOVE EXISTING ASPHALT PAVEMENT
2. EDGE GRIND EXISTING ASPHALT
3. NOT USED
4. REMOVE AND REPLACE EXISTING SIDEWALK FROM STA. 101+15.87 TO STA. 104+89.77
5. SAWCUT EXISTING ASPHALT PAVEMENT
6. SAWCUT EXISTING CONCRETE

DEMOLITION GENERAL NOTES

1. EXISTING A.C. PAVING AND/OR CONCRETE SHALL BE CUT TO A NEAT, STRAIGHT LINE (WHEN APPLICABLE). ALL EXPOSED VERTICAL SURFACES SHALL BE TACK COATED BELOW FINISH GRADE LINE WITH ASPHALT EMULSION PRIOR TO PAVING.
2. ALL SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR, IF DAMAGED, RESET BY A LICENSED LAND SURVEYOR.
3. LIMITS OF WORK AS SHOWN ARE APPROXIMATE.
4. ALL EXISTING TREES TO REMAIN UNLESS NOTED OTHERWISE.
5. UNLESS OTHERWISE NOTED, ALL UTILITY STRUCTURES SUCH AS WATER VALVES, HYDRANTS, MANHOLES, CATCH BASINS, METER BOXES, OR VAULTS ARE TO REMAIN, AND MUST BE PROTECTED IN PLACE DURING DEMOLITION ACTIVITIES. ADJUST STRUCTURES TO FINISH GRADE WITH FINAL PAVEMENT AND COORDINATE ADJUSTMENT TO FINISH GRADE WITH RESPECTIVE UTILITY COMPANIES.
6. UNLESS OTHERWISE NOTED, ALL EXISTING CONCRETE CURB, GUTTER AND SIDEWALK IS TO REMAIN AND PROTECTED IN PLACE.

LEGEND

- | | |
|--|-------------------------------------------------------|
| | REMOVE EX. ASPHALT PAVEMENT |
| | REMOVE EX. CONCRETE |
| | GRIND EX. ASPHALT PAVEMENT, MIN. 2" |
| | AREA OF CLEARING BEYOND AREAS OF EX. PAVEMENT REMOVAL |

Client/Project

CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

Title EXISTING TOPOGRAPHY & DEMOLITION PLAN

Engineer's Seal



Engineer's Signature:
Signature Date: 04.15.2024

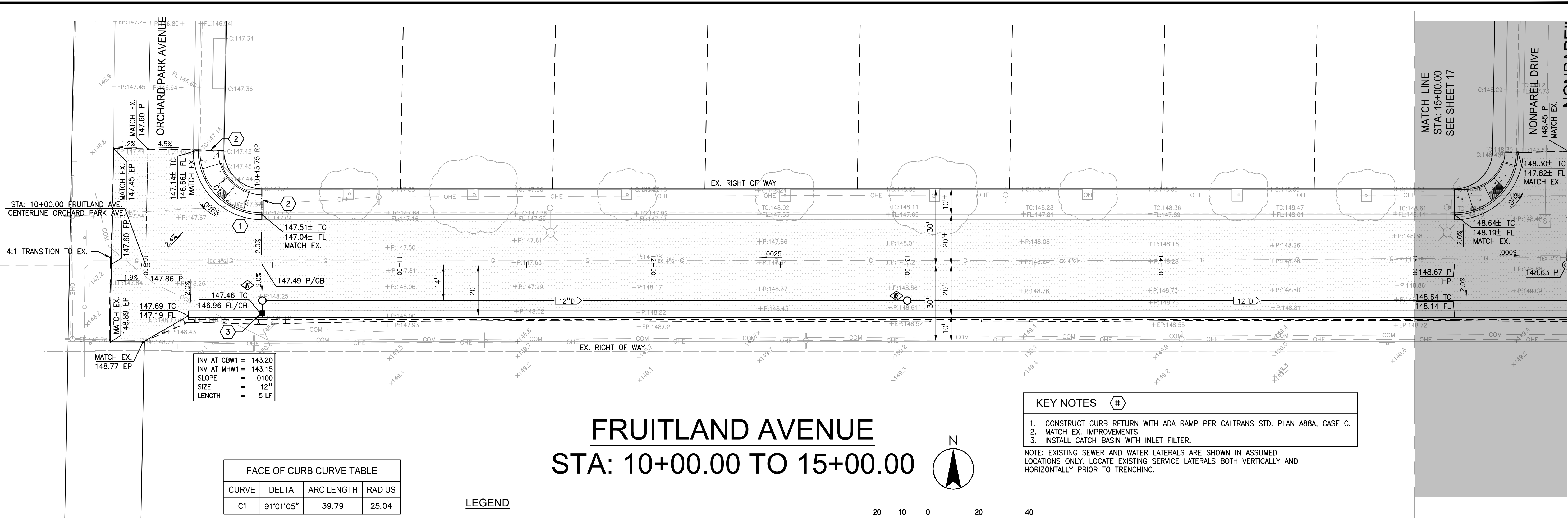


Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 15_TOPO&DEMO
JVP: RFC IY 03.26.24
Dwn: Chkd. Dgmn. MM.DD.YY

No.	MM.YY	Description	By	Appd.

W&A CONSULTING ENGINEERS
430 10th Street
Modesto, CA 95354
Tel.: 209.568.4477
Fax: 209.568.4478

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INV AT CBW1 =	143.20
INV AT MHW1 =	143.15
SLOPE =	.0100
SIZE =	12"
LENGTH =	5 LF

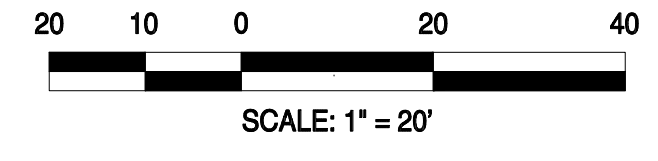
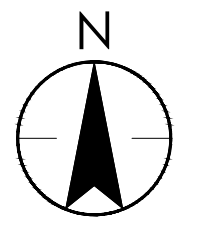
FACE OF CURB CURVE TABLE			
CURVE	DELTA	ARC LENGTH	RADIUS
C1	91°01'05"	39.79	25.04

LEGEND



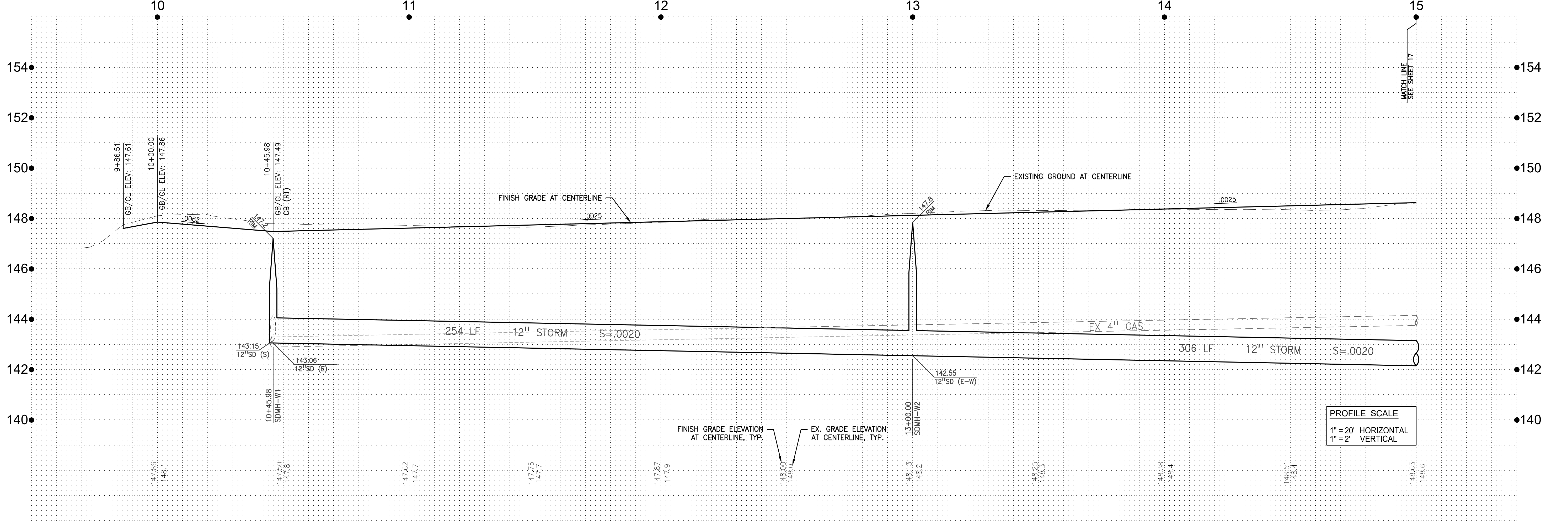
FRUITLAND AVENUE

STA: 10+00.00 TO 15+00.00



KEY NOTES

1. CONSTRUCT CURB RETURN WITH ADA RAMP PER CALTRANS STD. PLAN AB8A, CASE C.
 2. MATCH EX. IMPROVEMENTS.
 3. INSTALL CATCH BASIN WITH INLET FILTER.
- NOTE: EXISTING SEWER AND WATER LATERALS ARE SHOWN IN ASSUMED LOCATIONS ONLY. LOCATE EXISTING SERVICE LATERALS BOTH VERTICALLY AND HORIZONTALLY PRIOR TO TRENCHING.



PROFILE SCALE
1" = 20' HORIZONTAL
1" = 2' VERTICAL

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No.	MM.YY	Description	By	App'd.

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

Title
PLAN & PROFILE STA: 10+00.00 TO 15+00.00

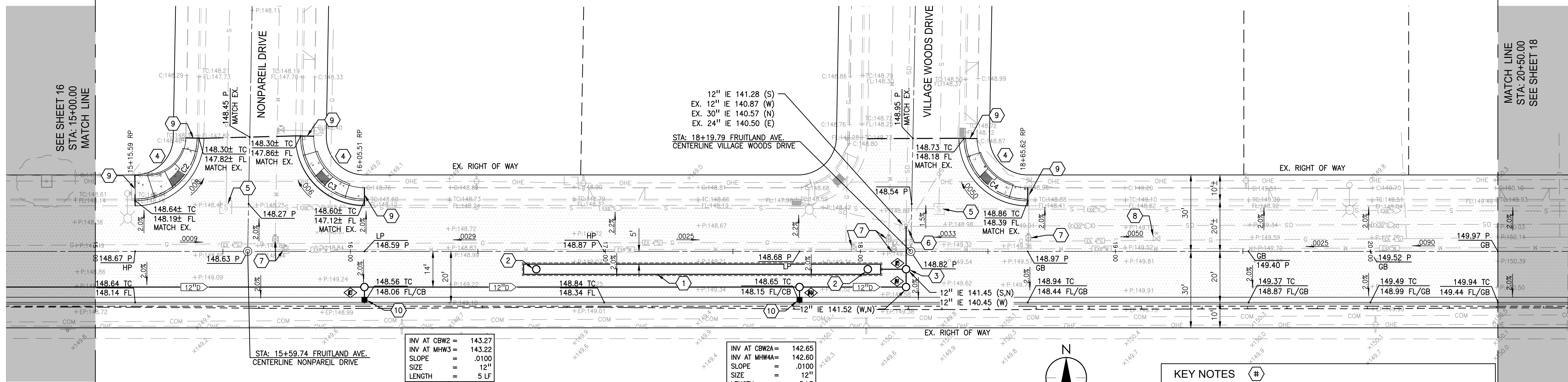
Engineer's Seal
REGISTERED PROFESSIONAL ENGINEER
ROBERT FRANCIS CHRISTENSEN
CIVIL
STATE OF CALIFORNIA
EXP. 06-30-24
Signature Date: 04.15.2024

**Know what's below.
Call before you dig.**

Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 16_PNP
JVP RFC IY 03.26.24
Dwn Chkd. Dgn. MM.00.YY
Sheet No.

SEE SHEET 16
STA: 15+00.00
MATCH LINE

MATCH LINE
STA: 20+50.00
SEE SHEET 18



FRUITLAND AVENUE STA: 15+00.00 TO 20+50.00

NOTE: EXISTING SEWER AND WATER LATERALS ARE SHOWN IN ASSUMED LOCATIONS ONLY. LOCATE EXISTING SERVICE LATERALS BOTH VERTICALLY AND HORIZONTALLY PRIOR TO TRENCHING.

FACE OF CURB CURVE TABLE			
CURVE	DELTA	ARC LENGTH	RADIUS
C2	88°59'27"	38.83	25.00
C3	90°58'41"	39.70	25.00
C4	88°55'17"	38.80	25.00

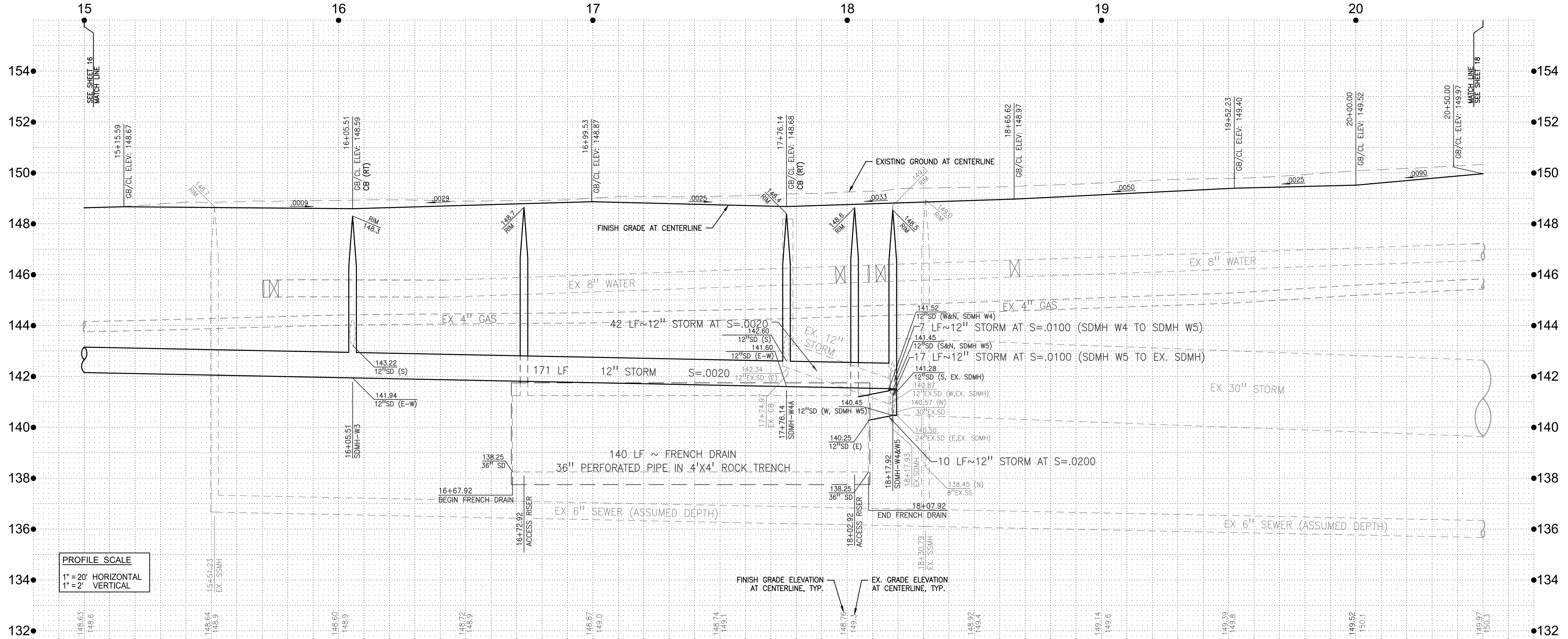
LEGEND

AREA TO BE PAVED PER ROADWAY IMPROVEMENTS

INV AT CBW2 =	142.65
INV AT MHW4 =	142.60
SLOPE =	.0100
SIZE =	12"
LENGTH =	5 LF

KEY NOTES

1. CONSTRUCT 140 LF FRENCH DRAIN 4'X4' FRENCH DRAIN W/36" PERFORATED PIPE PER DETAIL 10, SHEET 45.
2. CONSTRUCT ACCESS RISERS PER DETAIL 11, SHEET 45.
3. CONSTRUCT WEIR STORM DRAIN MANHOLE PER DETAIL 4, SHEET 44.
4. CONSTRUCT CURB RETURN WITH ADA RAMP PER CALTRANS STD. PLAN A88A, CASE C.
5. ADJUST EXISTING SSMH TO FINISH GRADE.
6. ADJUST EXISTING SDMH TO FINISH GRADE.
7. ADJUST EXISTING WATER VALVE BOX TO GRADE.
8. ADJUST EXISTING GAS VALVE BOX TO GRADE.
9. MATCH EXISTING IMPROVEMENTS.
10. INSTALL CATCH BASIN WITH INLET FILTER.



PROFILE SCALE
1" = 20' HORIZONTAL
1" = 2' VERTICAL

FINISH GRADE ELEVATION AT CENTERLINE, TYP.
EX. GRADE ELEVATION AT CENTERLINE, TYP.

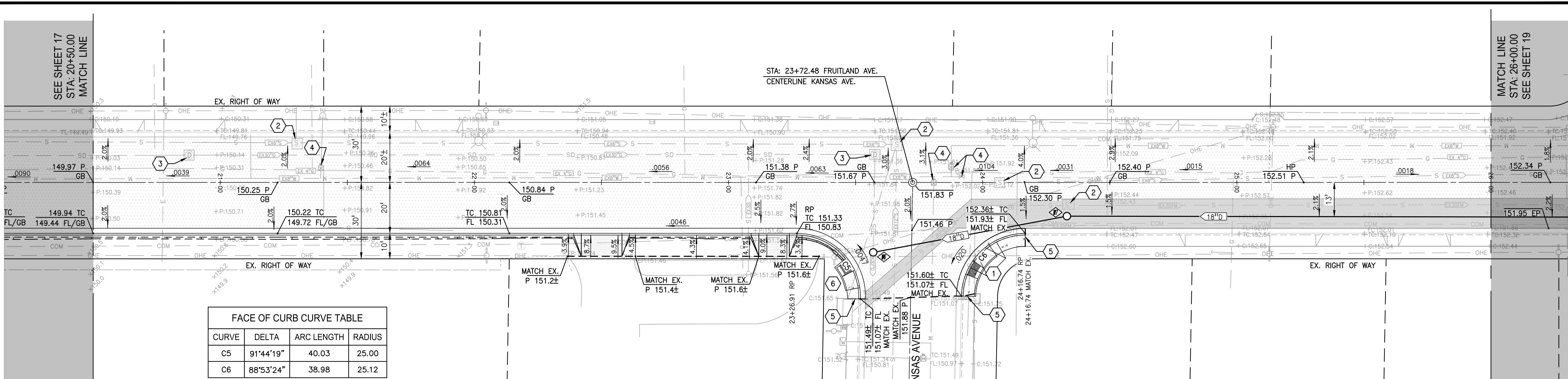


No.	MM/YY	Description	By	Appd.

Client/Project: CITY OF ATWATER, FRUITLAND AVENUE RECONSTRUCTION PROJECT PHASE III, BID CALL NUMBER: 725-24, CITY PROJECT NUMBER: 16-2-3, ATWATER, CALIFORNIA
Title: PLAN & PROFILE STA: 15+00.00 TO 20+50.00

Engineer's Seal: REGISTERED PROFESSIONAL ENGINEER, ROBERT FRANCIS CHRISTENSEN, CIVIL, STATE OF CALIFORNIA, Signature Date: 04.15.2024

Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 17_PNP
JVP: RFC: IY: 03.26.24
Dwn: Chkd: Dgn: MM-DD-YY
Sheet No. 17 of 83 sheets



FACE OF CURB CURVE TABLE

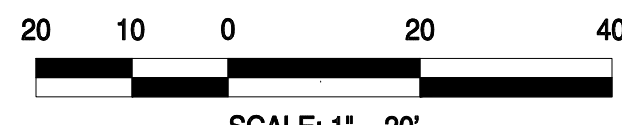
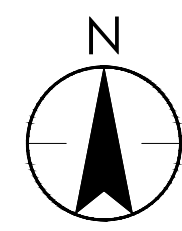
CURVE	DELTA	ARC LENGTH	RADIUS
C5	91°44'19"	40.03	25.00
C6	88°53'24"	38.98	25.12

LEGEND

- AREA TO BE PAVED PER SHALLOW FORCE MAIN PROTECTION DETAIL 7, SHEET 45
- AREA TO BE PAVED PER ROADWAY IMPROVEMENTS

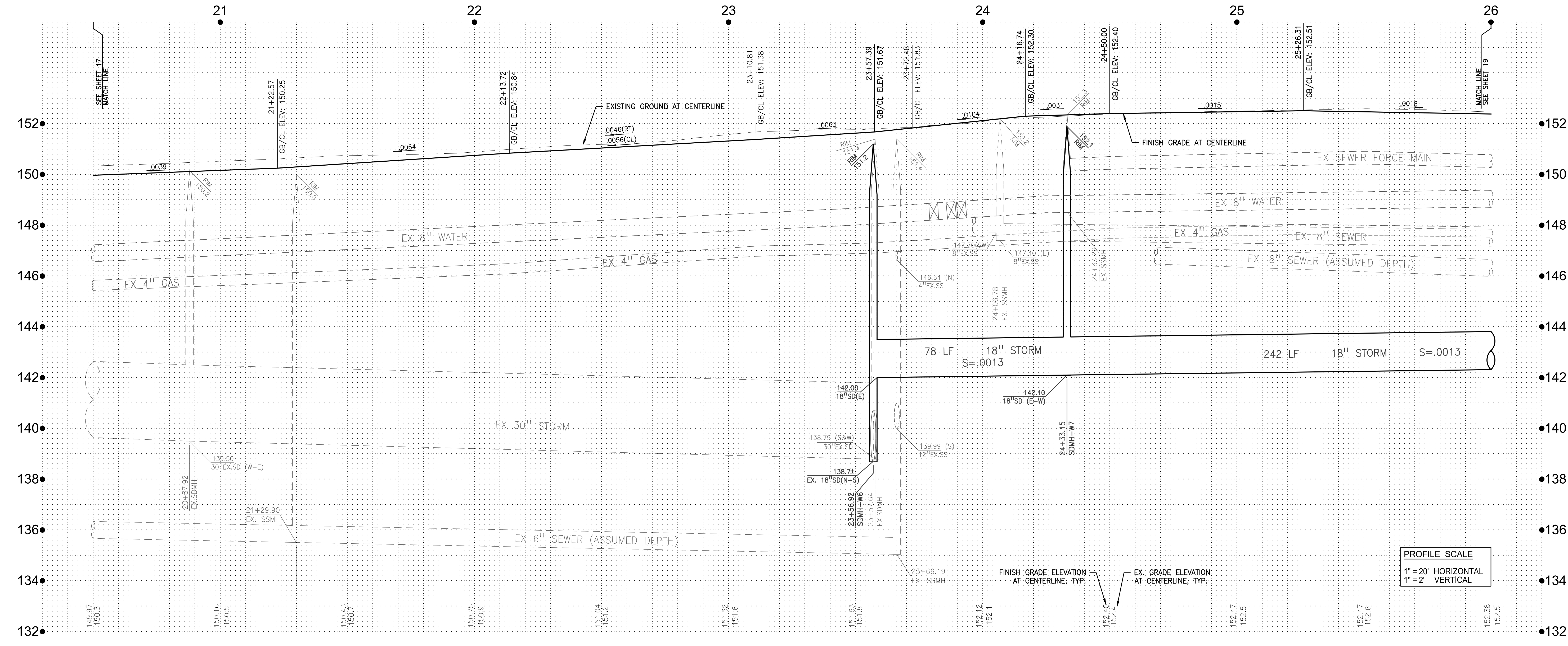
FRUITLAND AVENUE

STA: 20+50.00 TO 26+00.00



- KEY NOTES (#)
1. CONSTRUCT CURB RETURN WITH ADA RAMP PER CALTRANS STD. PLAN A88A, CASE C.
 2. ADJUST EXISTING SSMH TO FINISH GRADE.
 3. ADJUST EXISTING SDMH TO FINISH GRADE.
 4. ADJUST EXISTING WATER VALVE BOX TO FINISH GRADE.
 5. MATCH EXISTING IMPROVEMENTS.
 6. CONSTRUCT ADA RAMP PER CALTRANS STD. PLAN A88B, CASE CH.

NOTE: EXISTING SEWER AND WATER LATERALS ARE SHOWN IN ASSUMED LOCATIONS ONLY. LOCATE EXISTING SERVICE LATERALS BOTH VERTICALLY AND HORIZONTALLY PRIOR TO TRENCHING.



PROFILE SCALE
1" = 20' HORIZONTAL
1" = 2' VERTICAL

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Fax: 209.568.4478

No.	MM.YY	Description	By	Appd.

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

Title
PLAN & PROFILE STA: 20+50.00 TO 26+00.00

Engineer's Seal

Robert S. Christensen

Signature Date: 04.15.2024

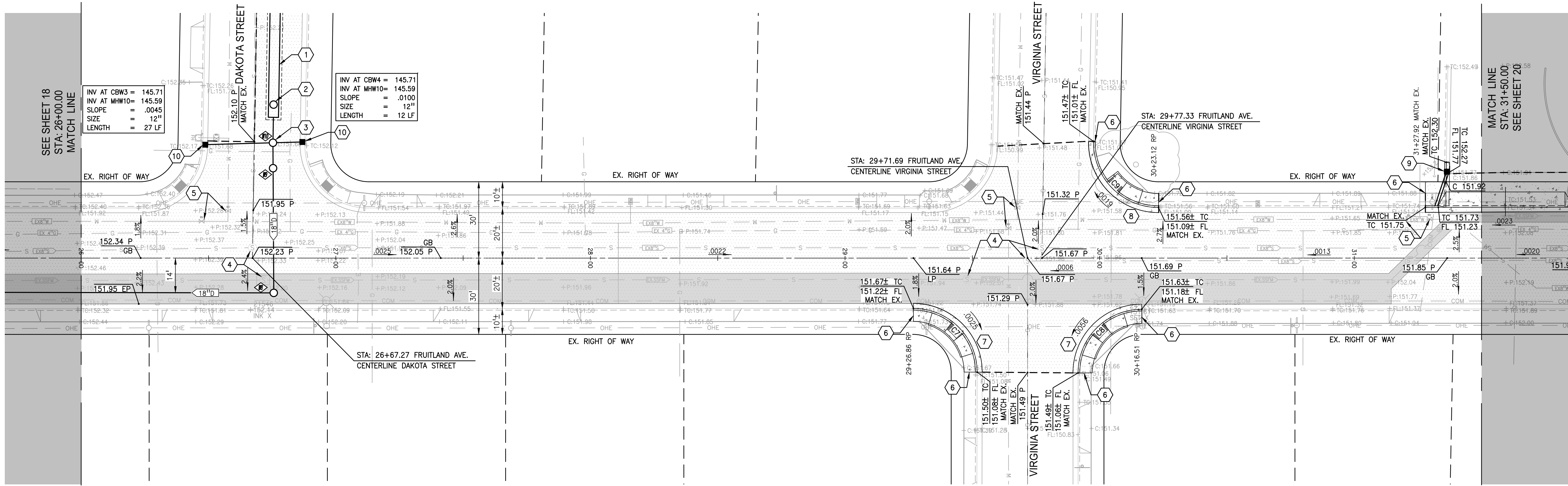
Know what's below.
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Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 18_PNP
JVP RFC IY 03.26.24
Dwn Chkd. Dsgn. MM-DD-YY
Sheet No.

SEE SHEET 18
STA: 26+00.00
MATCH LINE

INV AT CBW3 = 145.71
INV AT MHW10 = 145.59
SLOPE = .0045
SIZE = 12"
LENGTH = 27 LF

INV AT CBW4 = 145.71
INV AT MHW10 = 145.59
SLOPE = .0100
SIZE = 12"
LENGTH = 12 LF



CURVE	DELTA	ARC LENGTH	RADIUS
C7	90°09'04"	39.34	25.00
C8	89°56'12"	39.24	25.00
C9	91°09'12"	40.57	25.50

LEGEND



AREA TO BE PAVED PER SHALLOW FORCE MAIN PROTECTION DETAIL 7, SHEET 45



AREA TO BE PAVED PER ROADWAY IMPROVEMENTS

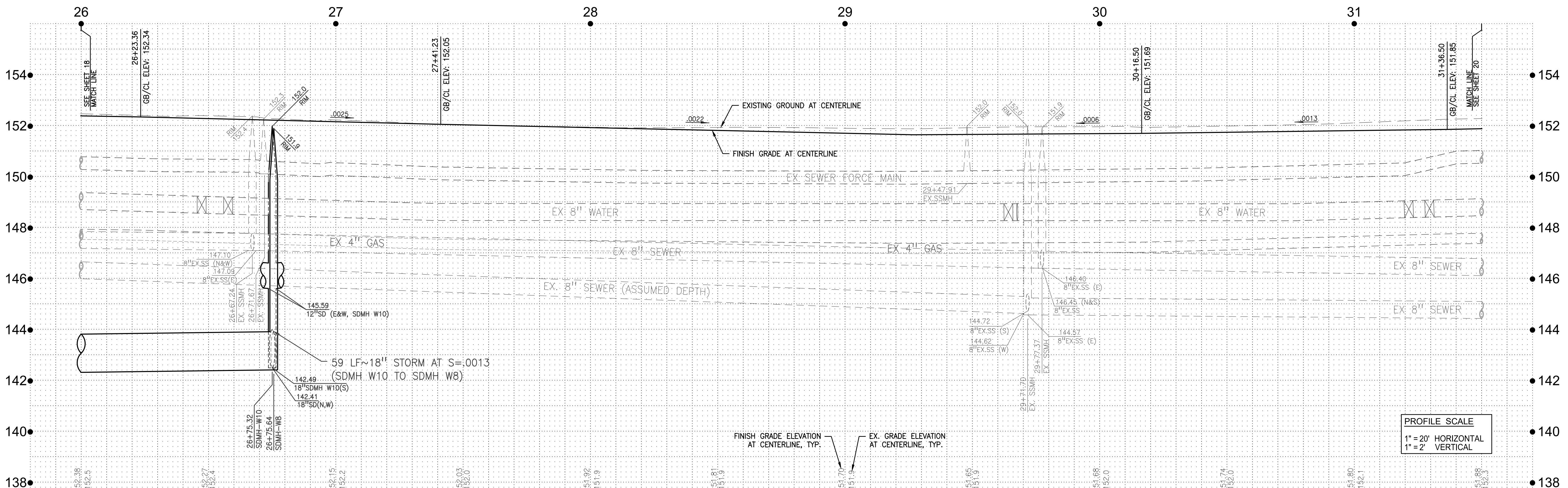
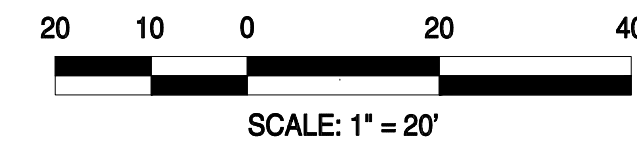
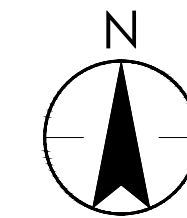
FRUITLAND AVENUE

STA: 26+00.00 TO 31+50.00

KEY NOTES

1. CONSTRUCT 115 LF 6X6 FRENCH DRAIN WITH 48" PERFORATED PIPE PER DETAIL 10, SHEET 45.
2. CONSTRUCT ACCESS RISERS PER DETAIL 11, SHEET 45.
3. CONSTRUCT WEIR STORM DRAIN MANHOLE PER DETAIL 4, SHEET 44.
4. ADJUST EXISTING SSMH TO FINISH GRADE.
5. ADJUST EXISTING WATER VALVE BOX TO FINISH GRADE.
6. MATCH EXISTING IMPROVEMENTS.
7. CONSTRUCT CURB RETURN WITH ADA RAMP PER CALTRANS STD PLAN A88A, CASE C.
8. CONSTRUCT ADA RAMP PER CALTRANS STD PLAN A88A, CASE CH.
9. INSTALL CATCH BASIN WITH 2 X 3" DUCTILE IRON PIPE CURB DRAINS PER DETAIL 14, SHEET 46.
10. INSTALL CATCH BASIN WITH INLET FILTER.

NOTE: EXISTING SEWER AND WATER LATERALS ARE SHOWN IN ASSUMED LOCATIONS ONLY. LOCATE EXISTING SERVICE LATERALS BOTH VERTICALLY AND HORIZONTALLY PRIOR TO TRENCHING.



PROFILE SCALE
1" = 20' HORIZONTAL
1" = 2' VERTICAL



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Modesto, CA 95354
Tel.: 209.568.4477
Fax: 209.568.4478

The Contractor shall verify and be responsible for all elevations. Do NOT make any adjustments to the elevations. The Engineer shall not be used for construction unless specifically noted by the Engineer.

No.	MM/YY	Description	By	App'd.

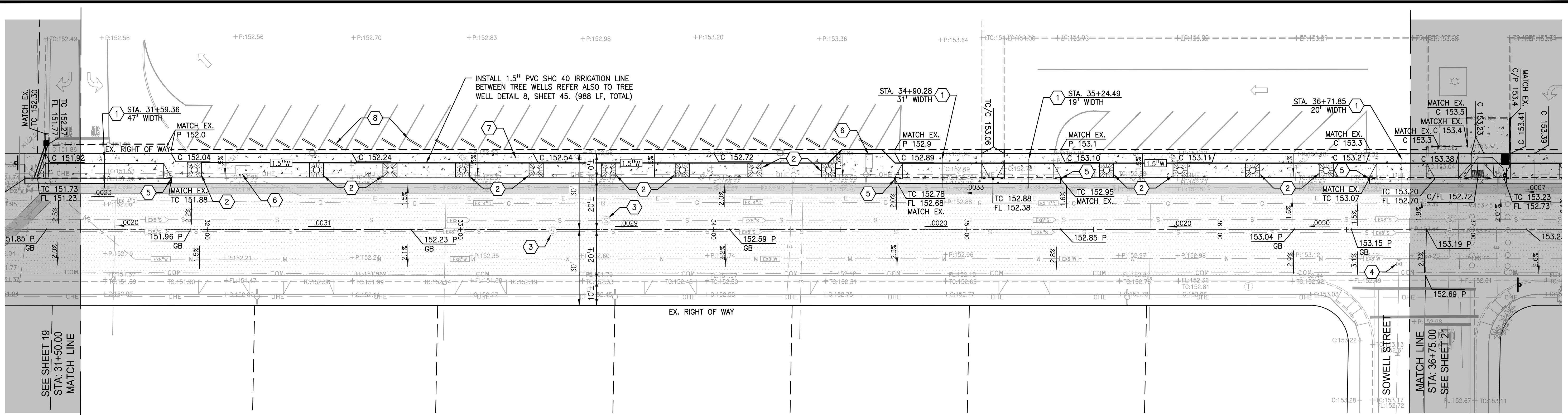
Client/Project:
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

Title: **PLAN & PROFILE STA: 26+00.00 TO 31+50.00**

Engineer's Seal:
ROBERT FRANCIS CHRISTENSEN
REGISTERED PROFESSIONAL ENGINEER
CIVIL
STATE OF CALIFORNIA
EXP. 06-30-24
Signature Date: 04.15.2024

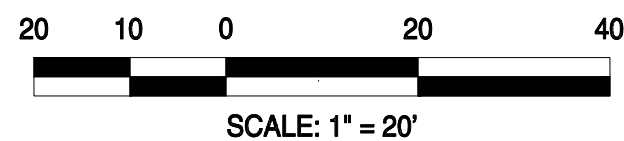
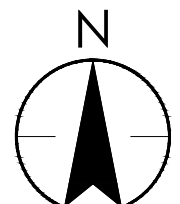
811
Know what's below.
Call before you dig.

Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 19_FNP
JVP RFC IY 03.26.24
Dwn Chkd. Dgrn. MM-DD-YY
Sheet No.



LEGEND

- AREA TO BE PAVED PER SHALLOW FORCE MAIN PROTECTION DETAIL 7, SHEET 45
- AREA TO BE PAVED PER ROADWAY IMPROVEMENTS

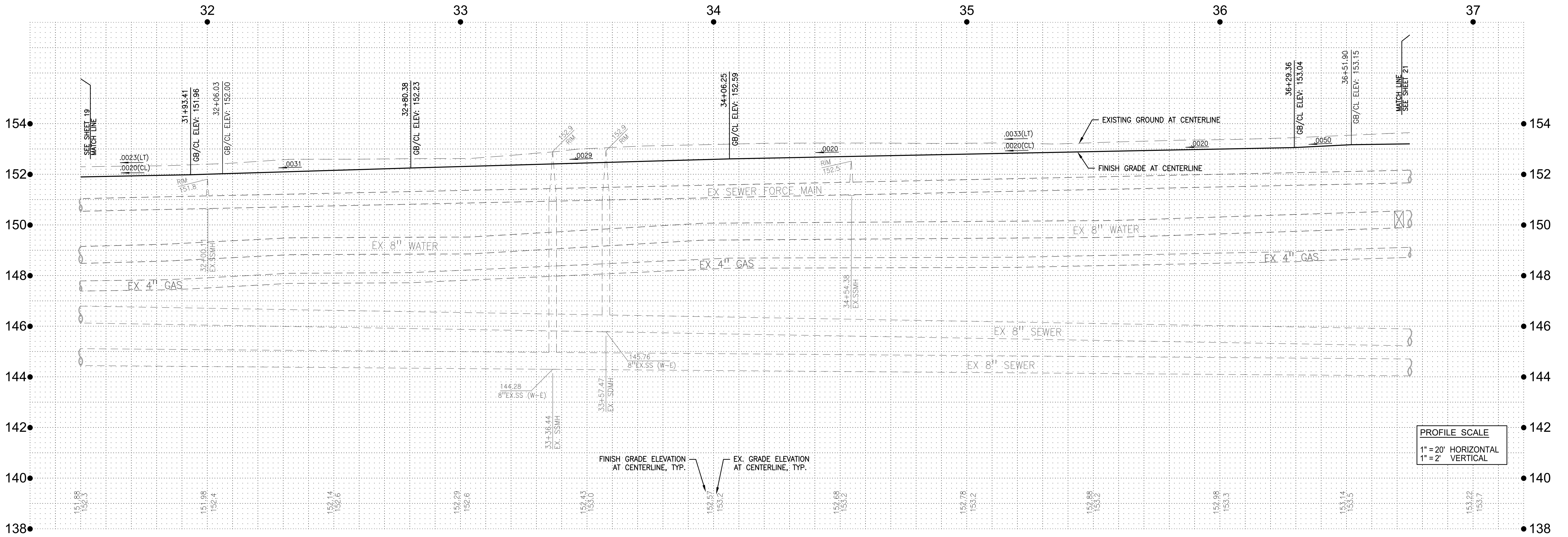


FRUITLAND AVENUE
STA: 31+50.00 TO 36+75.00

KEY NOTES #

1. PROPOSED CONCRETE DRIVEWAY PER DETAIL 1, SHEET 44, PROVIDE TRANSITION PAVING TO MEET AND MATCH EXISTING DRIVEWAY AS SHOWN.
2. CONSTRUCT 36" SQUARE TREE WELL WITH CAST IRON GATE PER DETAIL 8, SHEET 45. CONFIRM LOCATIONS WITH ENGINEER PRIOR TO CONSTRUCTION.
3. ADJUST EXISTING SSMH TO FINISH GRADE.
4. ADJUST EXISTING WATER VALVE BOX TO GRADE.
5. MATCH EXISTING IMPROVEMENTS.
6. EX ELECTRICAL BOX TO BE ADJUSTED TO GRADE. COORDINATE WITH UTILITY COMPANY.
7. REPLACE EX. LANDSCAPE IRRIGATION BOX WITH EQUIVALENT CONCRETE BOX AND LID, AND ADJUST TO GRADE.
8. PROPOSED CONCRETE WHEEL STOP.

NOTE: EXISTING SEWER AND WATER LATERALS ARE SHOWN IN ASSUMED LOCATIONS ONLY. LOCATE EXISTING SERVICE LATERALS BOTH VERTICALLY AND HORIZONTALLY PRIOR TO TRENCHING.



PROFILE SCALE
 1" = 20' HORIZONTAL
 1" = 2' VERTICAL

WFE CONSULTING ENGINEERS

430 10th Street
 Modesto, CA 95354
 Tel.: 209.568.4477
 Fax: 209.568.4478

No.	MM.YY	By	Appd.	Description

Client/Project
 CITY OF ATWATER
 FRUITLAND AVENUE
 RECONSTRUCTION PROJECT PHASE III
 BID CALL NUMBER: 725-24
 CITY PROJECT NUMBER: 16-23
 ATWATER, CALIFORNIA

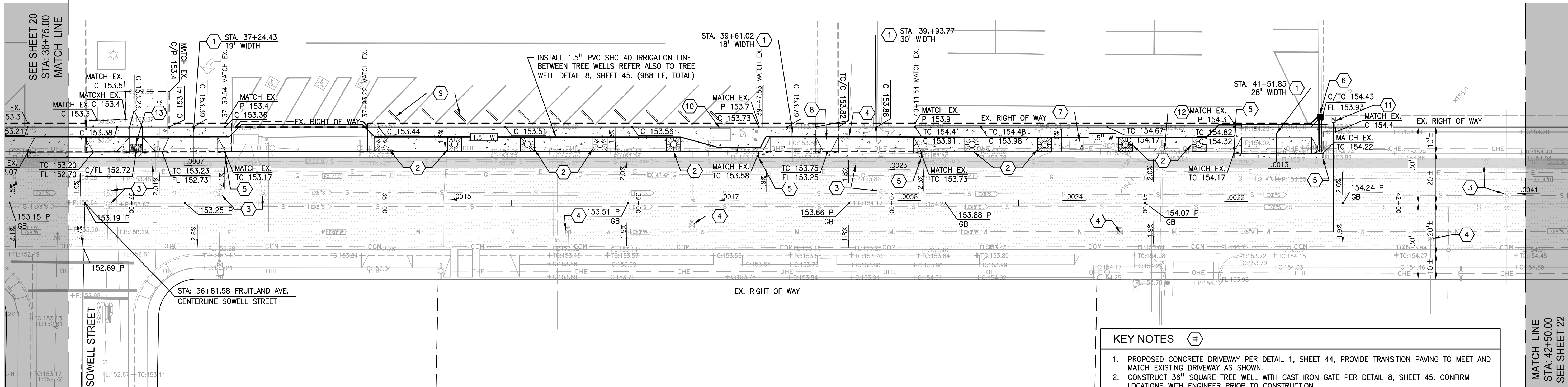
Engineer's Seal

Robert S. Christensen

811

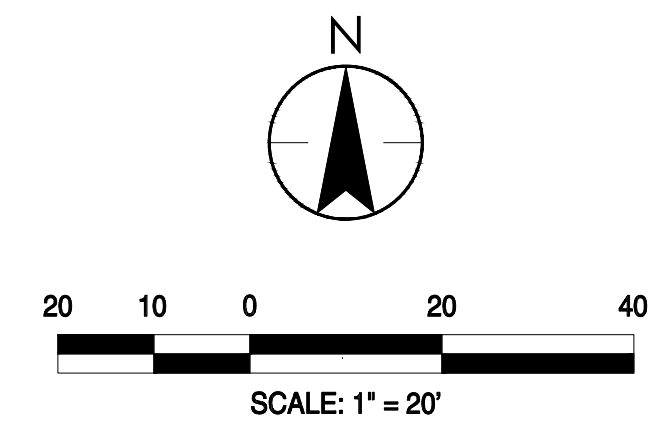
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Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 20_PNP
 d/P: RFC IY 03.26.24
 Dwn: Chkd. Dgmn. MM-DD-YY
 Sheet No.



LEGEND

- AREA TO BE PAVED PER SHALLOW FORCE MAIN PROTECTION DETAIL 7, SHEET 45
- AREA TO BE PAVED PER ROADWAY IMPROVEMENTS



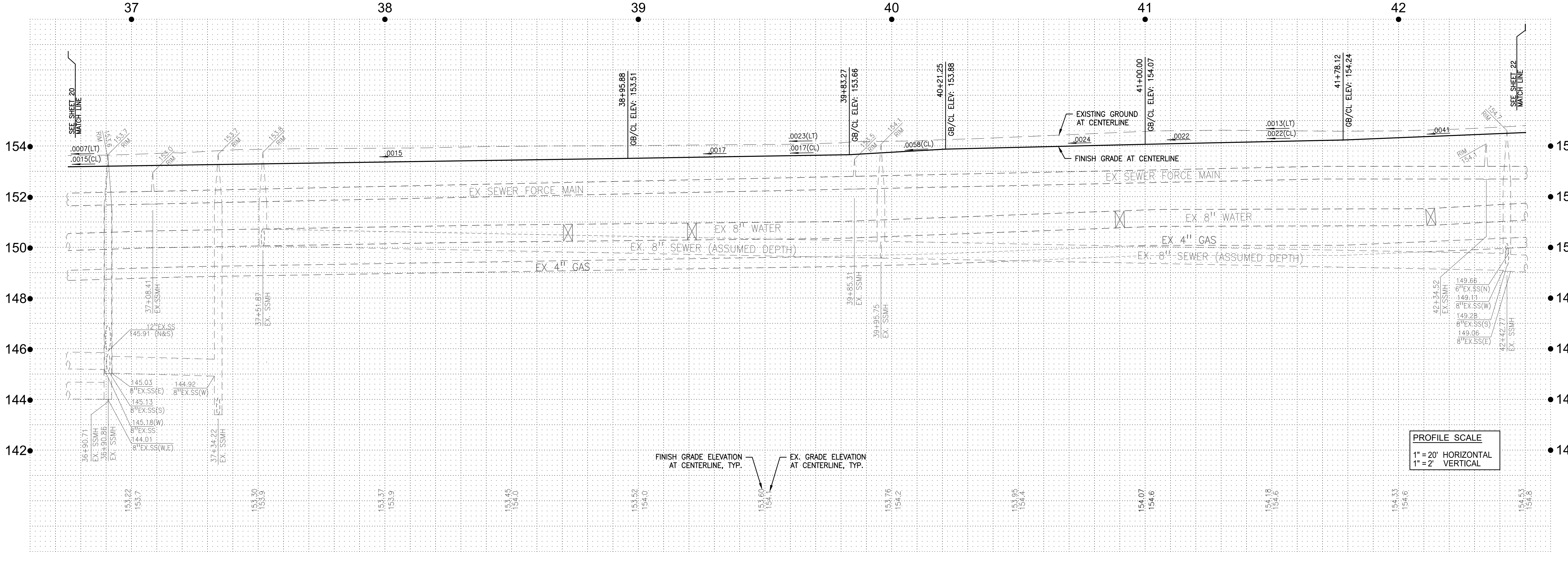
FRUITLAND AVENUE

STA: 36+75.00 TO 42+50.00

KEY NOTES (#)

1. PROPOSED CONCRETE DRIVEWAY PER DETAIL 1, SHEET 44, PROVIDE TRANSITION PAVING TO MEET AND MATCH EXISTING DRIVEWAY AS SHOWN.
2. CONSTRUCT 36" SQUARE TREE WELL WITH CAST IRON GATE PER DETAIL 8, SHEET 45. CONFIRM LOCATIONS WITH ENGINEER PRIOR TO CONSTRUCTION.
3. ADJUST EXISTING SSMH TO FINISH GRADE.
4. ADJUST EXISTING WATER VALVE BOX TO FINISH GRADE.
5. MATCH EXISTING IMPROVEMENTS.
6. INSTALL CATCH BASIN WITH 2 X 3" DUCTILE IRON PIPE CURB DRAINS PER DETAIL 14, SHEET 46.
7. EX. ELECTRICAL BOX TO BE ADJUSTED TO GRADE. COORDINATE WITH UTILITY COMPANY.
8. REPLACE EXISTING PEDESTRIAN BARRICADE.
9. PROPOSED CONCRETE WHEEL STOP.
10. ADJUST EXISTING WATER METER BOX TO FINISH GRADE.
11. INSTALL 1" WATER SERVICE AND METER BOX FOR FUTURE CONNECTION TO TREE WELL IRRIGATION PIPELINE.
12. EX. GAS VALVE TO BE ADJUSTED TO GRADE. COORDINATE WITH UTILITY COMPANY.
13. PROPOSED ADA RAMP PER CALTRANS STD PLAN 888A, CASE A.

NOTE: EXISTING SEWER AND WATER LATERALS ARE SHOWN IN ASSUMED LOCATIONS ONLY. LOCATE EXISTING SERVICE LATERALS BOTH VERTICALLY AND HORIZONTALLY PRIOR TO TRENCHING.



PROFILE SCALE
 1" = 20' HORIZONTAL
 1" = 2' VERTICAL

WAT CONSULTING ENGINEERS
 430 10th Street
 Modesto, CA 95354
 Tel.: 209.568.4477
 Fax: 209.568.4478

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No.	MM.YY	By	Description

Client/Project
 CITY OF ATWATER
 FRUITLAND AVENUE
 RECONSTRUCTION PROJECT PHASE III
 BID CALL NUMBER: 725-24
 CITY PROJECT NUMBER: 16-2-3
 ATWATER, CALIFORNIA

Title
 PLAN & PROFILE STA. 36+75.00 TO 42+50.00

Engineer's Seal

Robert S. Christensen

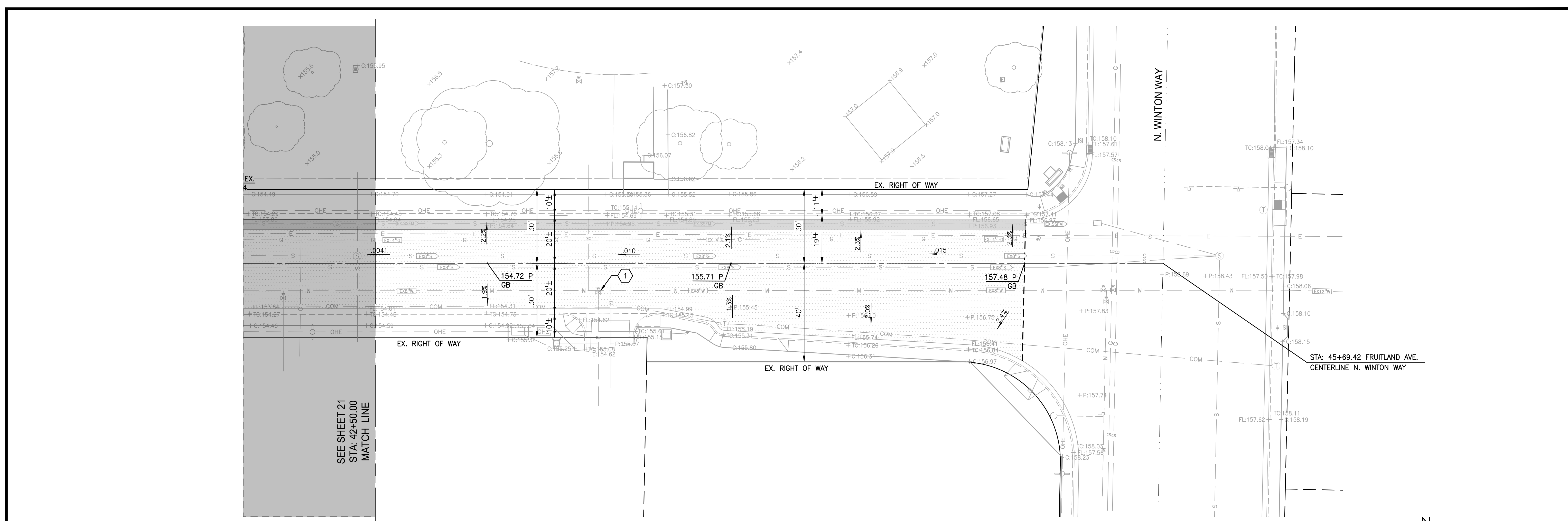
811
 Know what's below.
 Call before you dig.

Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 21_PNP
 JVP: RFC IY 03.26.24
 Dwn: Chkd. Dsgn. MM.00.YY
 Sheet No.

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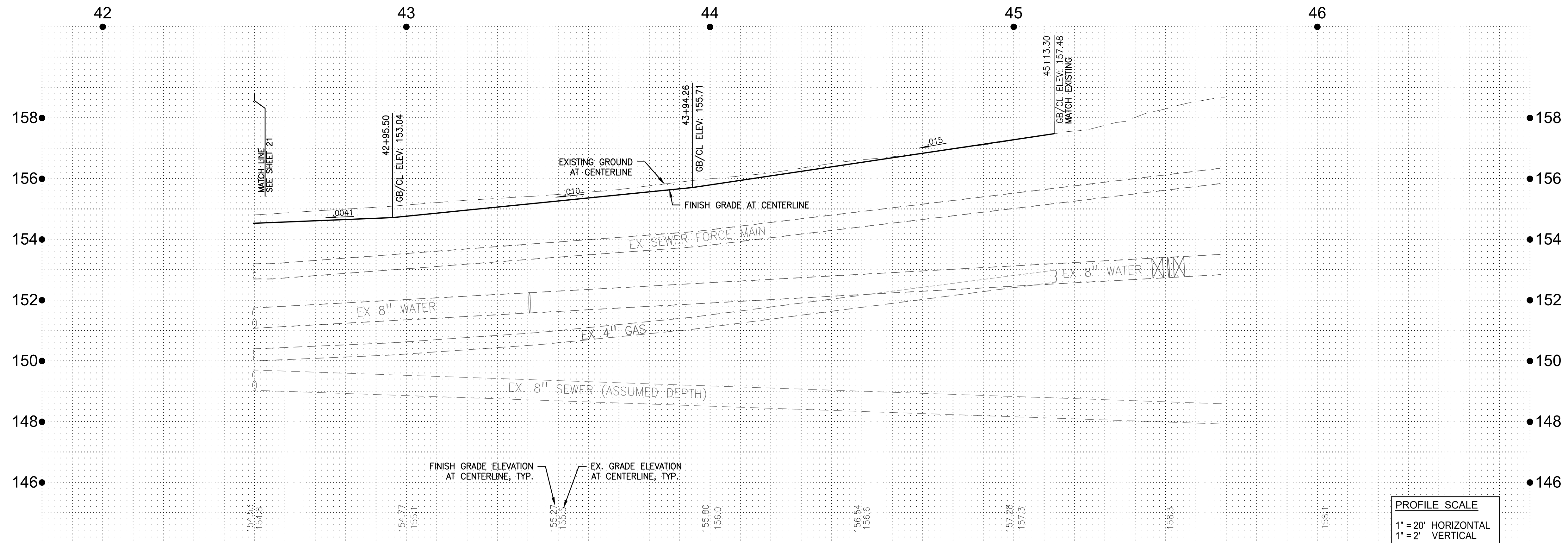
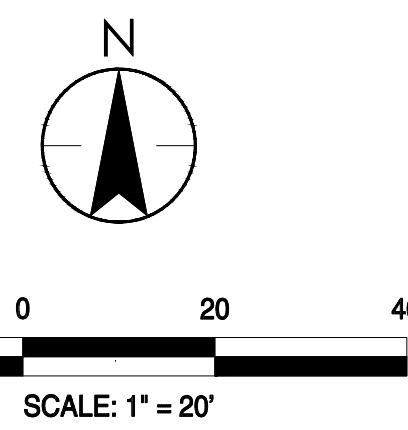
LEGEND

- AREA TO BE PAVED PER SHALLOW FORCE MAIN PROTECTION DETAIL 7, SHEET 45
- AREA TO BE PAVED PER ROADWAY IMPROVEMENTS

KEY NOTES #

1. ADJUST EXISTING WATER VALVE BOX TO FINISH GRADE.
- NOTE: EXISTING SEWER AND WATER LATERALS ARE SHOWN IN ASSUMED LOCATIONS ONLY. LOCATE EXISTING SERVICE LATERALS BOTH VERTICALLY AND HORIZONTALLY PRIOR TO TRENCHING.

FRUITLAND AVENUE STA: 42+50.00 TO 45+69.42



PROFILE SCALE
1" = 20' HORIZONTAL
1" = 2' VERTICAL

WME CONSULTING ENGINEERS
430 10th Street
Modesto, CA 95354
Tel.: 209.568.4477
Fax: 209.568.4478

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Description	No.	MM,YY	By	Appl.

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

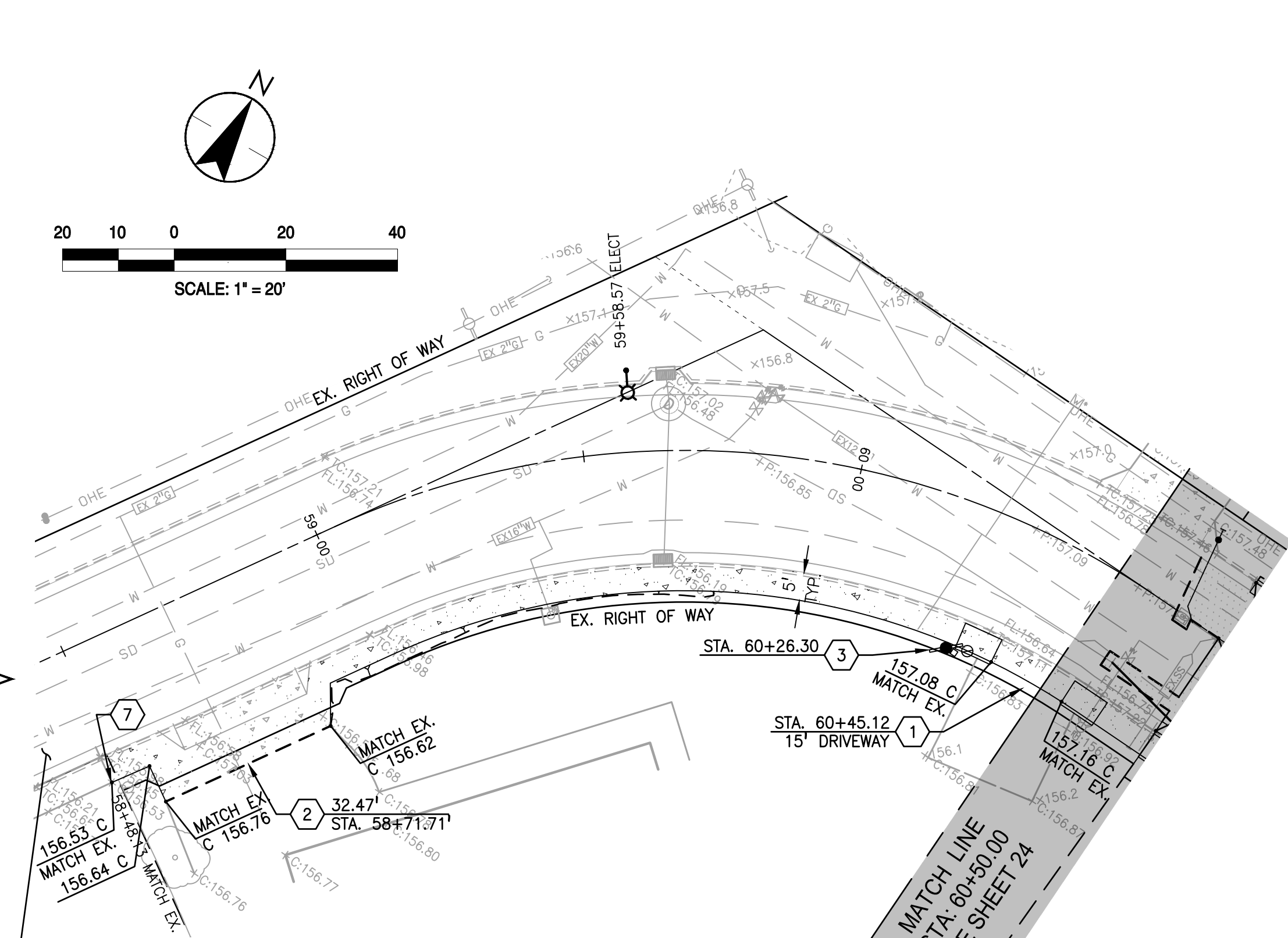
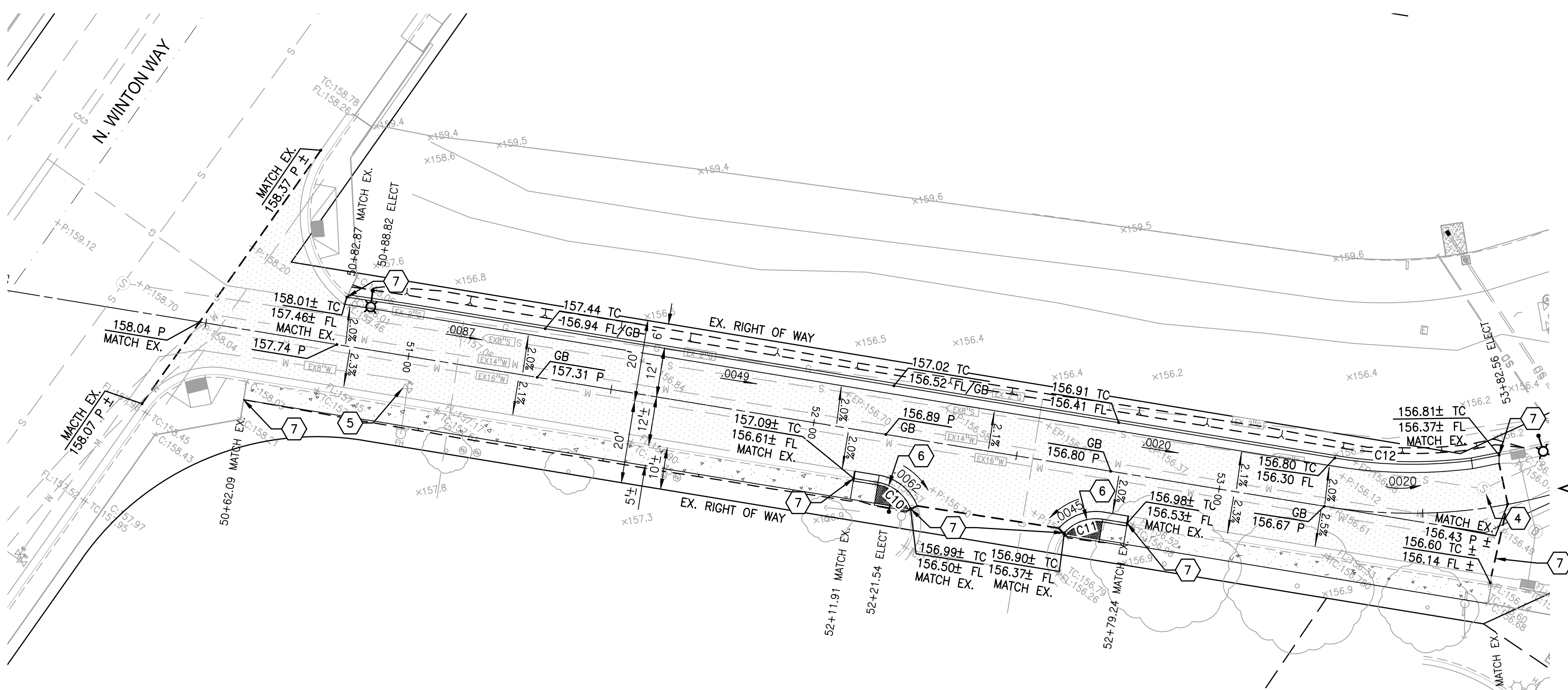
Engineer's Seal

Robert S. Anderson
Engineer's Signature:
Signature Date: 04.15.2024

811
Know what's below.
Call before you dig.

Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 22_PNP
JVP RFC IY 03.26.24
Dwn Chkd. Dgmn. MM-DD-YY

No.	MM.YY	Description	By	Appd.



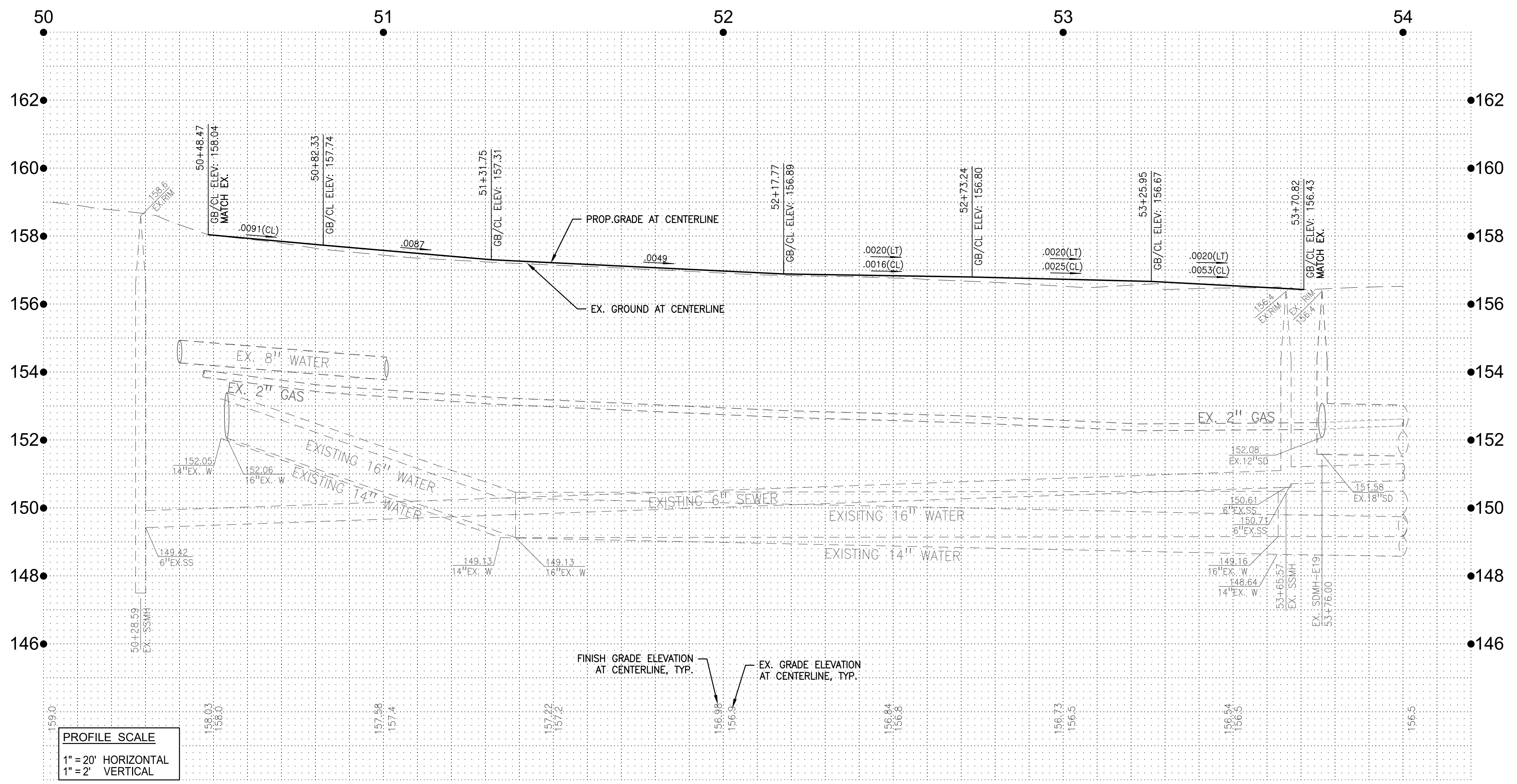
FACE OF CURB CURVE TABLE

CURVE	DELTA	ARC LENGTH	RADIUS
C10	58°55'38"	10.63	10.33
C11	57°38'54"	10.40	10.33
C12	16°30'43"	33.43	116.00

FRUITLAND AVENUE
STA: 50+00.00 TO 55+00.00

FRUITLAND AVENUE
STA: 58+33.00 TO 60+50.00*
 *SIDEWALK IMPROVEMENTS ONLY

REFER TO STREETLIGHTING PLANS FOR LIGHTING FROM STATION 53+71± TO 58+48±



- KEY NOTES**
- CONSTRUCT DEPRESSED SIDEWALK DRIVEWAY PER DETAIL 3, SHEET 44.
 - PROVIDE TRANSITION FOR PROPOSED IMPROVEMENTS TO EXISTING DRIVEWAY, AS SHOWN.
 - PROPOSED UTILITY POLE RELOCATION.
 - ADJUST EXISTING SSMH TO FINISH GRADE.
 - ADJUST EXISTING WATER VALVE BOX TO FINISH GRADE.
 - CONSTRUCT ADA RAMP PER CALTRANS STD. PLAN A88B, CASE CM.
 - MATCH EXISTING IMPROVEMENTS.

NOTE: EXISTING SEWER AND WATER LATERALS ARE SHOWN IN ASSUMED LOCATIONS ONLY. LOCATE EXISTING SERVICE LATERALS BOTH VERTICALLY AND HORIZONTALLY PRIOR TO TRENCHING.

LEGEND
 [Hatched Box Symbol] AREA TO BE PAVED PER ROADWAY IMPROVEMENTS

PROFILE SCALE
 1" = 20' HORIZONTAL
 1" = 2' VERTICAL

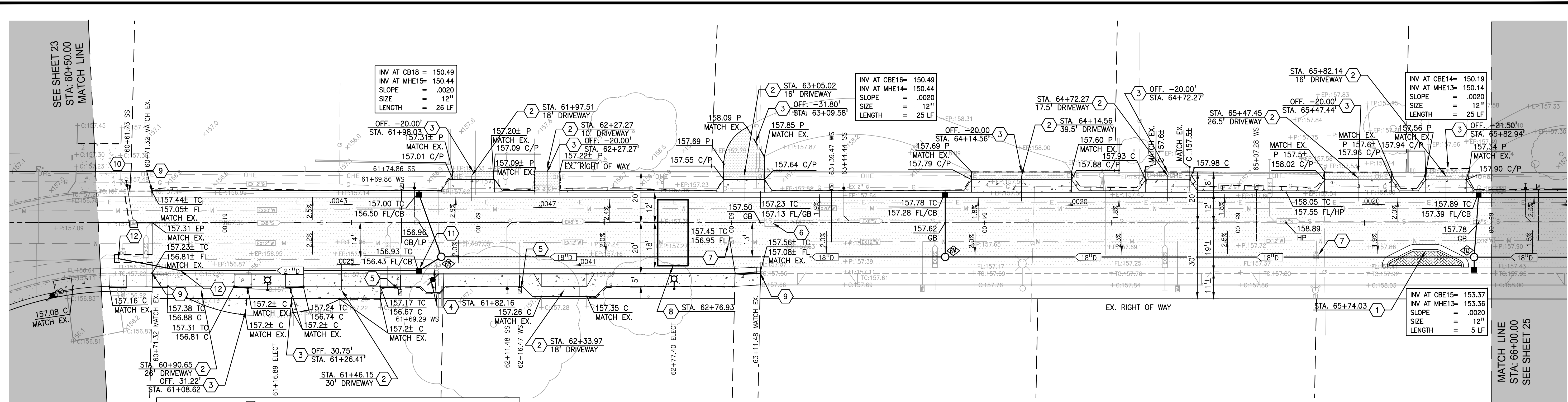
Client/Project
 CITY OF ATWATER
 FRUITLAND AVENUE
 RECONSTRUCTION PROJECT PHASE III
 BID CALL NUMBER: 725-24
 CITY PROJECT NUMBER: 16-2-3
 ATWATER, CALIFORNIA

Title
PLAN & PROFILE STA: 50+00.00 TO 55+00.00

Engineer's Seal

 Robert S. Christensen
 Engineer's Signature:
 Signature Date: 04.15.2024

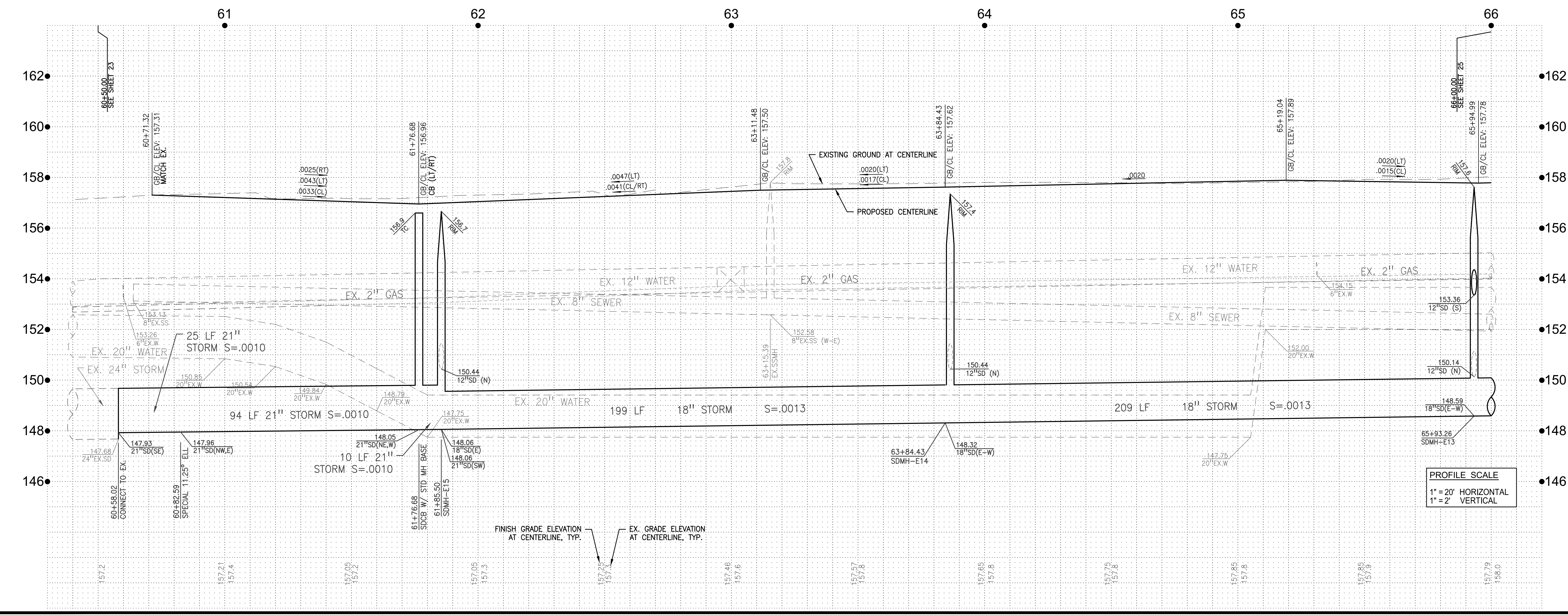
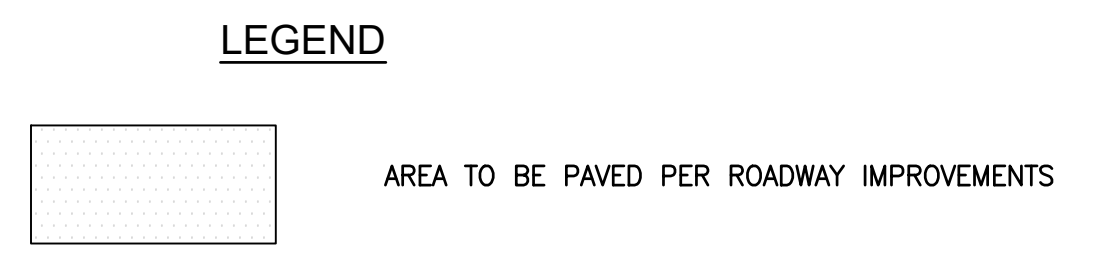
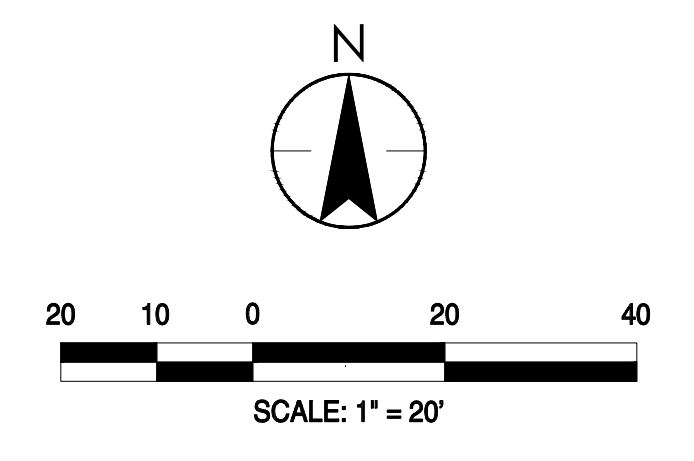
811
 Know what's below.
 Call before you dig.
 Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 23_PNP
 JVP: RFC IY 03.26.24
 Dwn: Chkd. Dgn. MM.00.YY
 Sheet No.



- KEY NOTES**
- PROPOSED TRAFFIC CALMING POP-OUT PER DETAIL 5, SHEET 44.
 - PROPOSED CONCRETE DRIVEWAY PER DETAIL 3, SHEET 44, PROVIDE TRANSITION PAVING TO MEET AND MATCH EXISTING DRIVEWAY AS SHOWN.
 - PROVIDE TRANSITION FOR PROPOSED IMPROVEMENTS TO EXISTING DRIVEWAY, AS SHOWN.
 - EXTEND UTILITY POLE RELOCATION. REFER TO SIDEWALK ADJUSTMENT DETAIL 9, SHEET 45.
 - EXTEND EXISTING WATER SERVICE AND RELOCATE EXISTING METER AND BOX BEHIND THE BACK OF SIDEWALK. RECONNECT TO EXISTING RESIDENTIAL SERVICE LINE.
 - ADJUST EXISTING SSMH TO FINISH GRADE.
 - ADJUST EXISTING WATER VALVE BOX TO FINISH GRADE.
 - INSTALL SPEED CUSHION PER DETAILS 12, SHEET 46.
 - MATCH EXISTING IMPROVEMENTS.
 - REPAIR CURB AND GUTTER AFTER UTILITY LATERAL INSTALLATION.
 - CONSTRUCT CATCH BASIN FRAME AND GRATE WITH STANDARD MANHOLE BASE.
 - INSTALL SPECIAL 11.25" ELL ON PROPOSED 21" STORM DRAIN LINE. CONTRACTOR TO VERIFY SIZE OF EX. STORM DRAIN LINE PRIOR TO CONNECTION TO EXISTING.
- NOTE: EXISTING SEWER AND WATER LATERALS ARE SHOWN IN ASSUMED LOCATIONS ONLY. LOCATE EXISTING SERVICE LATERALS BOTH VERTICALLY AND HORIZONTALLY PRIOR TO TRENCHING.

FRUITLAND AVENUE

STA: 60+50.00 TO 66+00.00



PROFILE SCALE
1" = 20' HORIZONTAL
1" = 2' VERTICAL

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Fax: 209.568.4478

No.	MM/YY	Description	By	App'd.

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

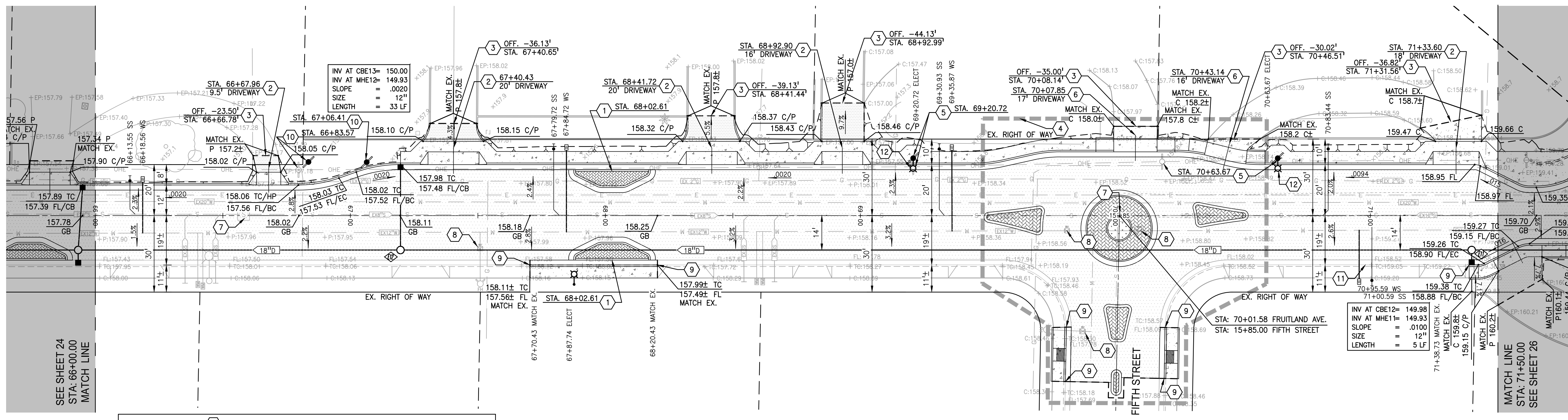
Title
PLAN & PROFILE STA: 60+50.00 TO 66+00.00

Engineer's Seal

Robert S. Christensen
Engineer's Signature:
Signature Date: 04.15.2024

811
Know what's below.
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Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 24_PNP
JWP RFC IY 03.26.24
Dwn Chkd. Dgn. MM.00.YY
Sheet No.



SEE SHEET 24
STA: 66+00.00
MATCH LINE

MATCH LINE
STA: 71+50.00
SEE SHEET 26

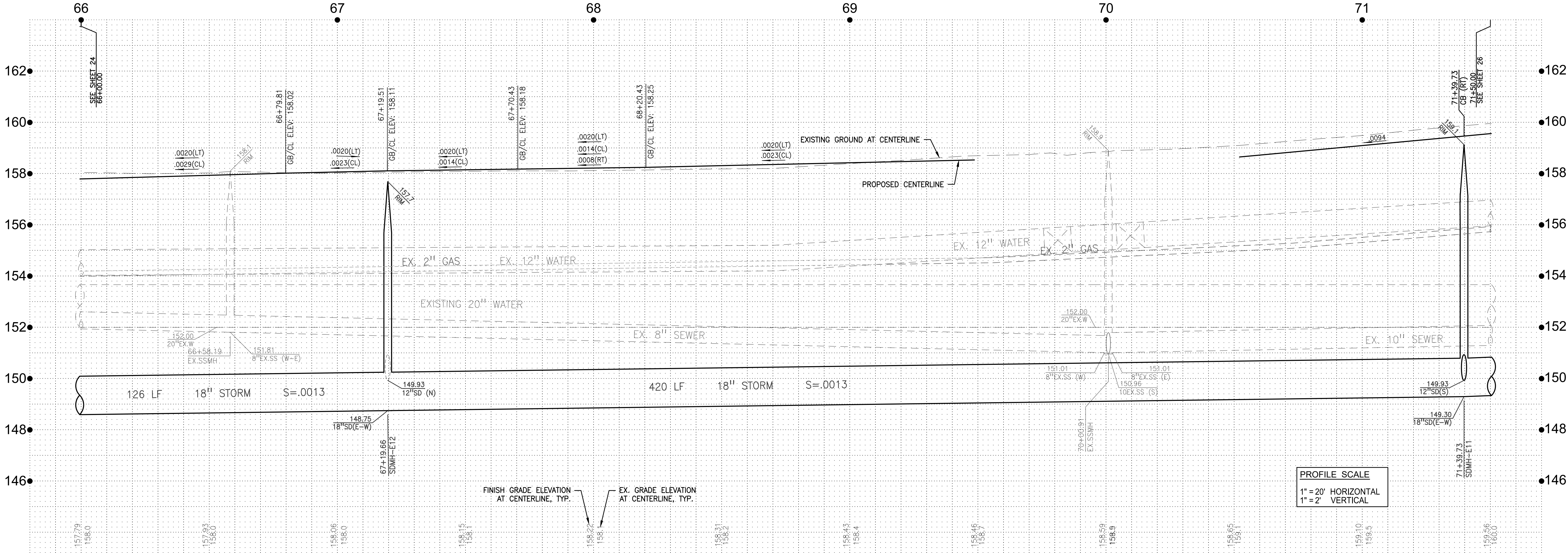
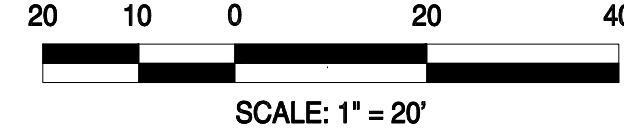
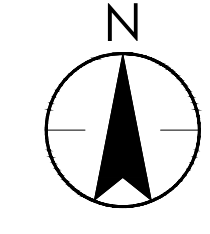
- KEY NOTES** #
1. PROPOSED TRAFFIC CALMING POP-OUT PER DETAIL 5, SHEET 44.
 2. PROPOSED CONCRETE DRIVEWAY PER DETAIL 1, SHEET 44, PROVIDE TRANSITION PAVING TO MEET AND MATCH EXISTING DRIVEWAY AS SHOWN.
 3. PROVIDE TRANSITION FOR PROPOSED IMPROVEMENTS TO EXISTING DRIVEWAY, AS SHOWN.
 4. SEE SHEET 48 FOR INTERSECTION DETAILS.
 5. PROPOSED UTILITY POLE RELOCATION. REFER TO SIDEWALK ADJUSTMENT DETAIL 9, SHEET 45.
 6. CONSTRUCT DEPRESSED SIDEWALK DRIVEWAY PER DETAIL 3, SHEET 44.
 7. ADJUST EXISTING SSMH TO FINISH GRADE.
 8. ADJUST EXISTING WATER VALVE BOX TO FINISH GRADE.
 9. MATCH EXISTING IMPROVEMENTS.
 10. PROPOSED UTILITY POLE RELOCATION.
 11. REPAIR SIDEWALK, CURB, AND GUTTER AFTER UTILITY LATERAL INSTALLATION.
 12. UTILITY MOUNTED STREETLIGHT TO BE MOUNTED BY UTILITY COMPANY.
- NOTE: EXISTING SEWER AND WATER LATERALS ARE SHOWN IN ASSUMED LOCATIONS ONLY. LOCATE EXISTING SERVICE LATERALS BOTH VERTICALLY AND HORIZONTALLY PRIOR TO TRENCHING.

FRUITLAND AVENUE

STA: 66+00.00 TO 71+50.00

LEGEND

AREA TO BE PAVED PER ROADWAY IMPROVEMENTS



PROFILE SCALE
1" = 20' HORIZONTAL
1" = 2' VERTICAL

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ORIGINAL SHEET - ARCH D

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Description	MM/YY	By

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

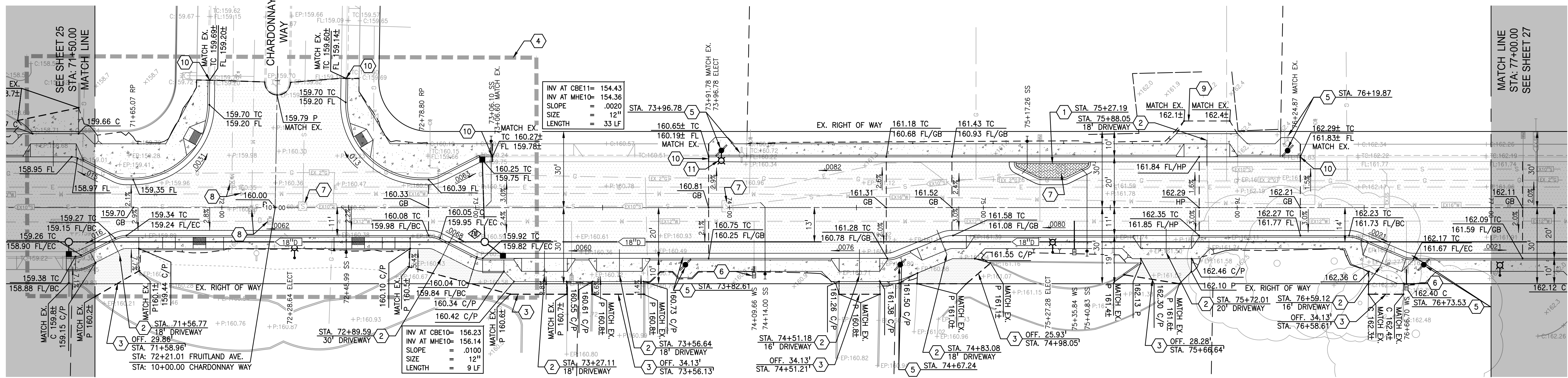
Title
PLAN & PROFILE STA. 66+00.00 TO 71+50.00

Engineer's Seal

Robert S. Christensen
Engineer's Signature
Signature Date: 04.15.2024

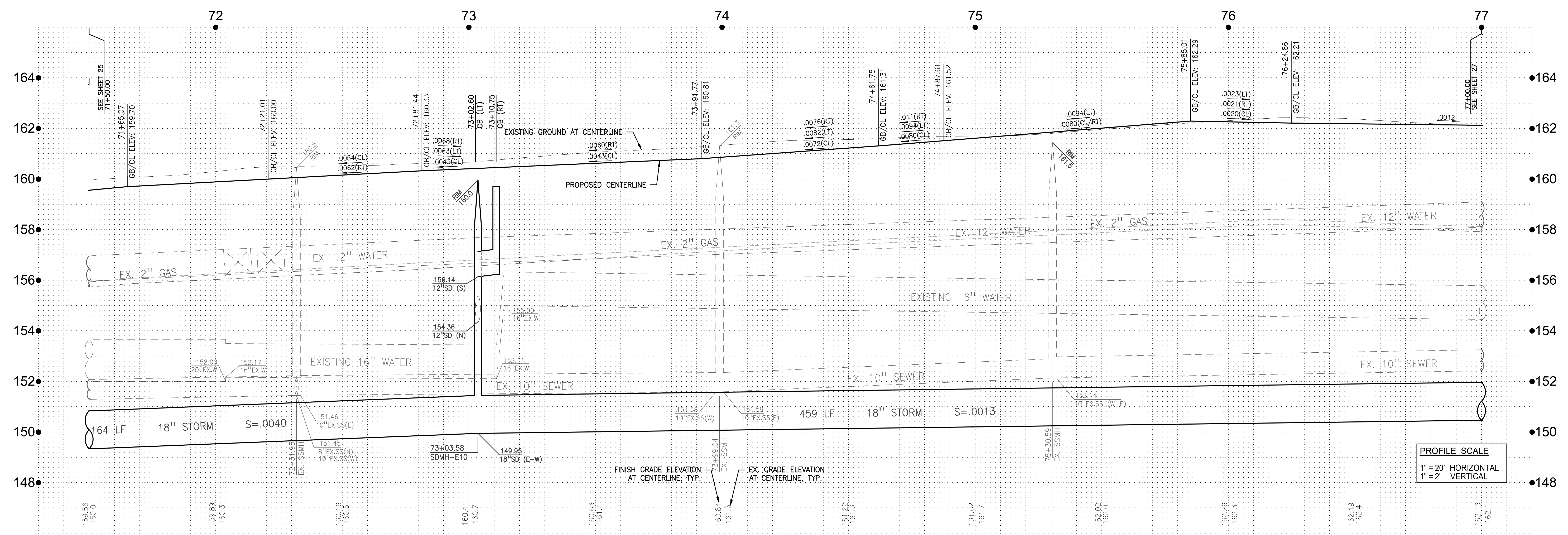
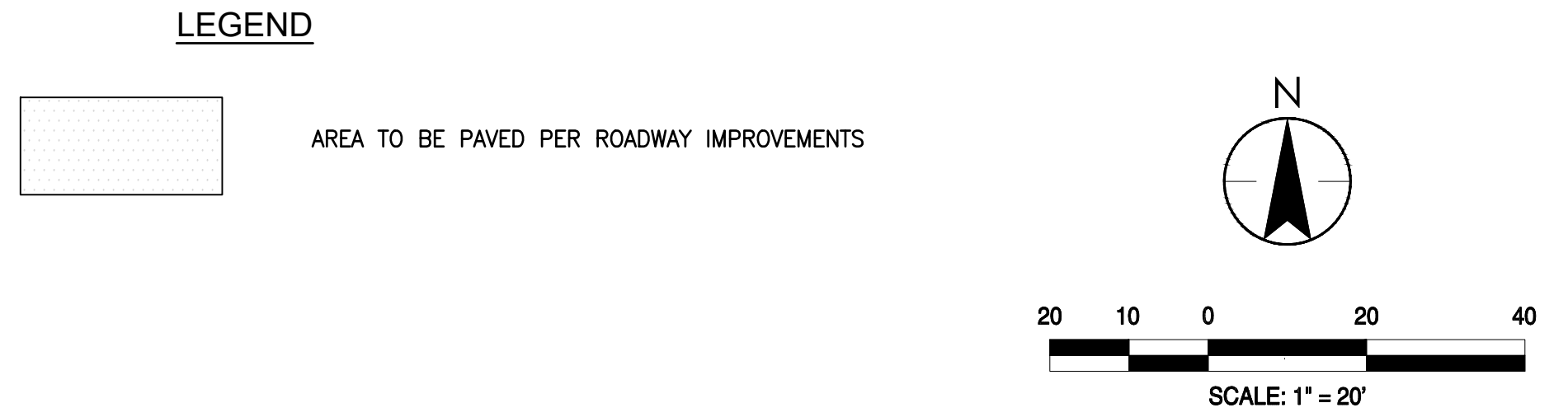
Know what's below.
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Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 25_PNP
JWP RFC IY 03.26.24
Dwn Chkd. Dgmn. MM-DD-YY
Sheet No.



- KEY NOTES**
1. PROPOSED TRAFFIC CALMING POP-OUT PER DETAIL 5, SHEET 44.
 2. PROPOSED CONCRETE DRIVEWAY PER DETAIL 1, SHEET 44, PROVIDE TRANSITION PAVING TO MEET AND MATCH EXISTING DRIVEWAY AS SHOWN.
 3. PROVIDE TRANSITION FOR PROPOSED IMPROVEMENTS TO EXISTING DRIVEWAY, AS SHOWN.
 4. SEE SHEET 49 FOR INTERSECTION DETAILS.
 5. PROPOSED UTILITY POLE RELOCATION. REFER TO SIDEWALK ADJUSTMENT DETAIL 9, SHEET 45.
 6. EXTEND EXISTING WATER SERVICE AND RELOCATE EXISTING METER AND BOX BEHIND THE BACK OF SIDEWALK. RECONNECT TO EXISTING RESIDENTIAL SERVICE LINE.
 7. ADJUST EXISTING SSMH TO FINISH GRADE.
 8. ADJUST EXISTING WATER VALVE BOX TO FINISH GRADE.
 9. MEET AND MATCH EXISTING DRIVEWAY.
 10. MATCH EXISTING IMPROVEMENTS.
 11. UTILITY MOUNTED STREETLIGHT TO BE MOUNTED BY UTILITY COMPANY.
- NOTE: EXISTING SEWER AND WATER LATERALS ARE SHOWN IN ASSUMED LOCATIONS ONLY. LOCATE EXISTING SERVICE LATERALS BOTH VERTICALLY AND HORIZONTALLY PRIOR TO TRENCHING.

FRUITLAND AVENUE STA: 71+50.00 TO 77+00.00



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 2023-04-15 11:25:59
 ORIGINAL SHEET - ARCH D

W&M CONSULTING ENGINEERS
 430 10th Street
 Modesto, CA 95354
 Tel.: 209.588.4477
 Fax: 209.588.4478

No.	MM.YY	Description	By	App'd.

Client/Project:
 CITY OF ATWATER
 FRUITLAND AVENUE
 RECONSTRUCTION PROJECT PHASE III
 BID CALL NUMBER: 725-24
 CITY PROJECT NUMBER: 16-2-3
 ATWATER, CALIFORNIA

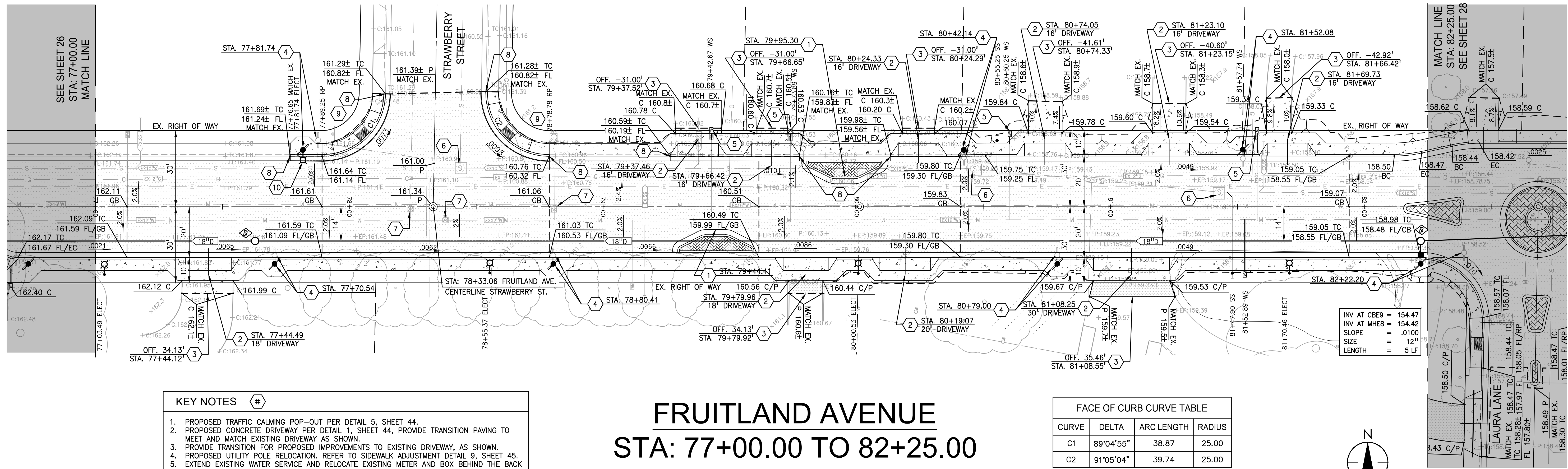
Engineer's Seal:

 Robert S. Christensen
 Engineer's Signature:
 Signature Date: 04.15.2024

811 Know what's below. Call before you dig.
 Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 26_PNP
 D/P: RFC IY 03.26.24
 Dwn: Chkd. Dsgn. MM-DD-YY
 Sheet No.

Title: PLAN & PROFILE STA. 71+50.00 TO 77+00.00

SEE SHEET 26
STA: 77+00.00
MATCH LINE



- KEY NOTES** #
1. PROPOSED TRAFFIC CALMING POP-OUT PER DETAIL 5, SHEET 44.
 2. PROPOSED CONCRETE DRIVEWAY PER DETAIL 1, SHEET 44, PROVIDE TRANSITION PAVING TO MEET AND MATCH EXISTING DRIVEWAY AS SHOWN.
 3. PROVIDE TRANSITION FOR PROPOSED IMPROVEMENTS TO EXISTING DRIVEWAY, AS SHOWN.
 4. PROPOSED UTILITY POLE RELOCATION, REFER TO SIDEWALK ADJUSTMENT DETAIL 9, SHEET 45.
 5. EXTEND EXISTING WATER SERVICE AND RELOCATE EXISTING METER AND BOX BEHIND THE BACK OF SIDEWALK. RECONNECT TO EXISTING RESIDENTIAL SERVICE LINE.
 6. ADJUST EXISTING SSMH TO FINISH GRADE.
 7. ADJUST EXISTING WATER VALVE BOX TO FINISH GRADE.
 8. MATCH EXISTING IMPROVEMENTS.
 9. CONSTRUCT NEW RETURN WITH ADA RAMP PER CALTRANS STD PLAN A88A, CASE C.
 10. UTILITY MOUNTED STREETLIGHT TO BE MOUNTED BY UTILITY COMPANY.
- NOTE: EXISTING SEWER AND WATER LATERALS ARE SHOWN IN ASSUMED LOCATIONS ONLY. LOCATE EXISTING SERVICE LATERALS BOTH VERTICALLY AND HORIZONTALLY PRIOR TO TRENCHING.

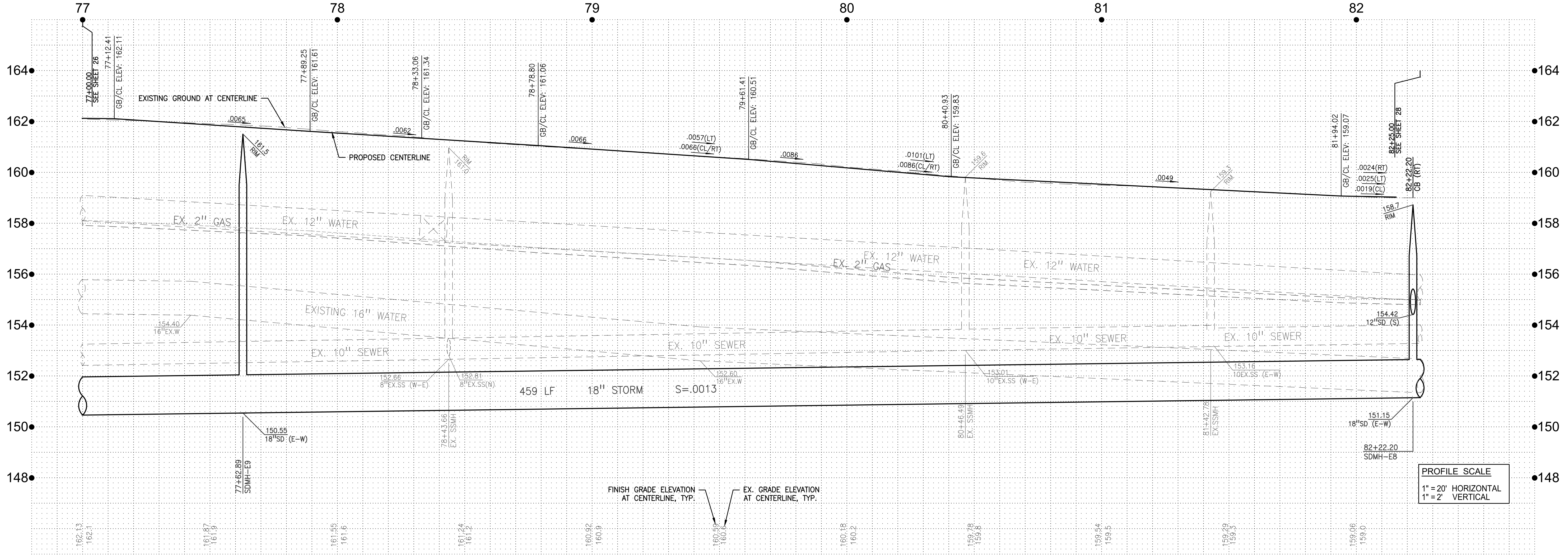
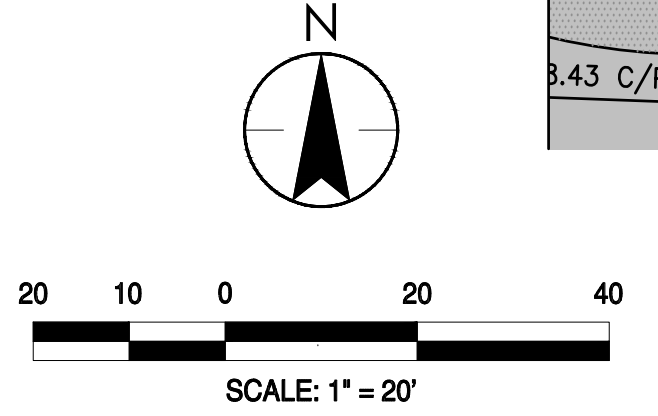
FRUITLAND AVENUE STA: 77+00.00 TO 82+25.00

FACE OF CURB CURVE TABLE

CURVE	DELTA	ARC LENGTH	RADIUS
C1	89°04'55"	38.87	25.00
C2	91°05'04"	39.74	25.00

LEGEND

AREA TO BE PAVED PER ROADWAY IMPROVEMENTS



W&A CONSULTING ENGINEERS
430 10th Street
Modesto, CA 95354
Tel.: 209.568.4477
Fax: 209.568.4478

No.	MM/YY	Description	By	App'd.

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

Engineer's Seal
ROBERT FRANCIS CHRISTENSEN
REGISTERED PROFESSIONAL ENGINEER
CIVIL
STATE OF CALIFORNIA
EXP. 06-30-24

Engineer's Signature:
Signature Date: 04.15.2024

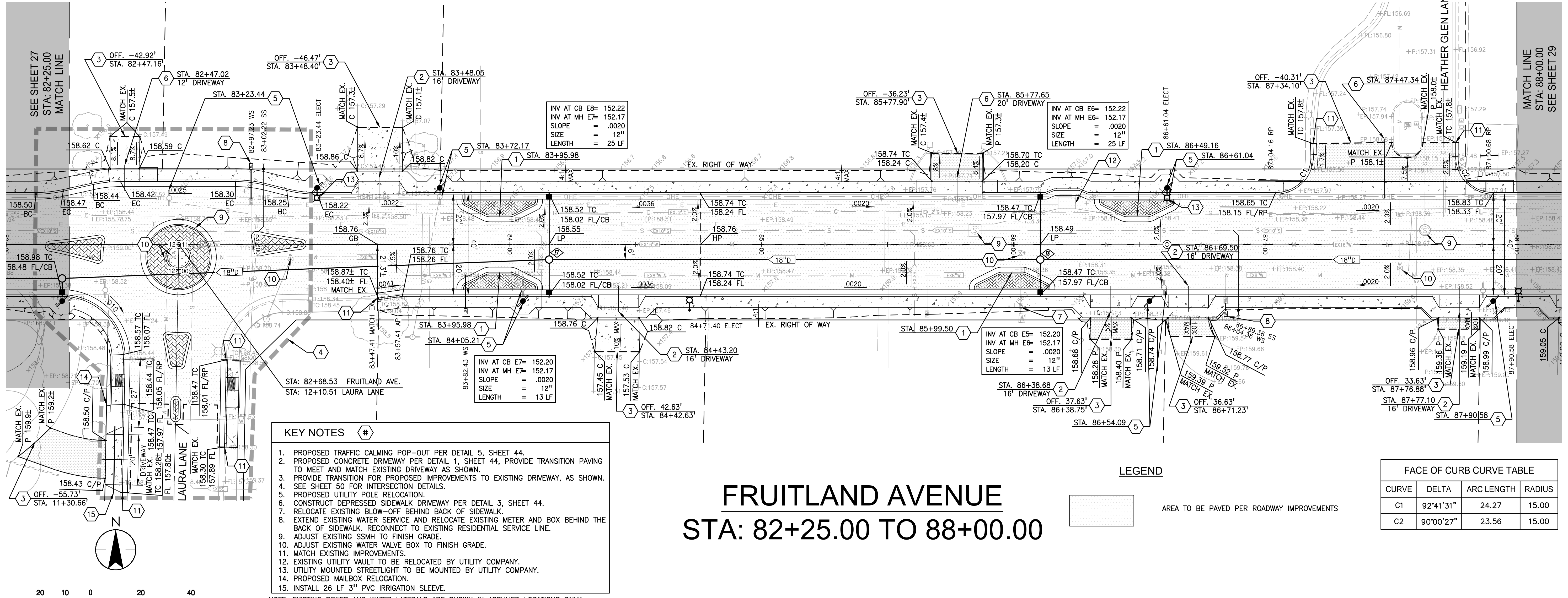
811
Know what's below.
Call before you dig.

Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 27_PNP
JVP RFC IY 03.26.24
Dwn Chkd. Dgmn. MM.DD.YY
Sheet No.

Title
PLAN & PROFILE STA: 77+00.00 TO 82+25.00

Revision

27 of 83 sheets



- KEY NOTES**
1. PROPOSED TRAFFIC CALMING POP-OUT PER DETAIL 5, SHEET 44.
 2. PROPOSED CONCRETE DRIVEWAY PER DETAIL 1, SHEET 44, PROVIDE TRANSITION PAVING TO MEET AND MATCH EXISTING DRIVEWAY AS SHOWN.
 3. PROVIDE TRANSITION FOR PROPOSED IMPROVEMENTS TO EXISTING DRIVEWAY, AS SHOWN. SEE SHEET 50 FOR INTERSECTION DETAILS.
 4. PROPOSED UTILITY POLE RELOCATION.
 5. CONSTRUCT DEPRESSED SIDEWALK DRIVEWAY PER DETAIL 3, SHEET 44.
 6. RELOCATE EXISTING BLOW-OFF BEHIND BACK OF SIDEWALK.
 7. EXTEND EXISTING WATER SERVICE AND RELOCATE EXISTING METER AND BOX BEHIND THE BACK OF SIDEWALK. RECONNECT TO EXISTING RESIDENTIAL SERVICE LINE.
 8. ADJUST EXISTING SSMH TO FINISH GRADE.
 9. ADJUST EXISTING WATER VALVE BOX TO FINISH GRADE.
 10. MATCH EXISTING IMPROVEMENTS.
 11. EXISTING UTILITY VAULT TO BE RELOCATED BY UTILITY COMPANY.
 12. UTILITY MOUNTED STREETLIGHT TO BE MOUNTED BY UTILITY COMPANY.
 13. PROPOSED MAILBOX RELOCATION.
 14. INSTALL 26 LF 3" PVC IRRIGATION SLEEVE.

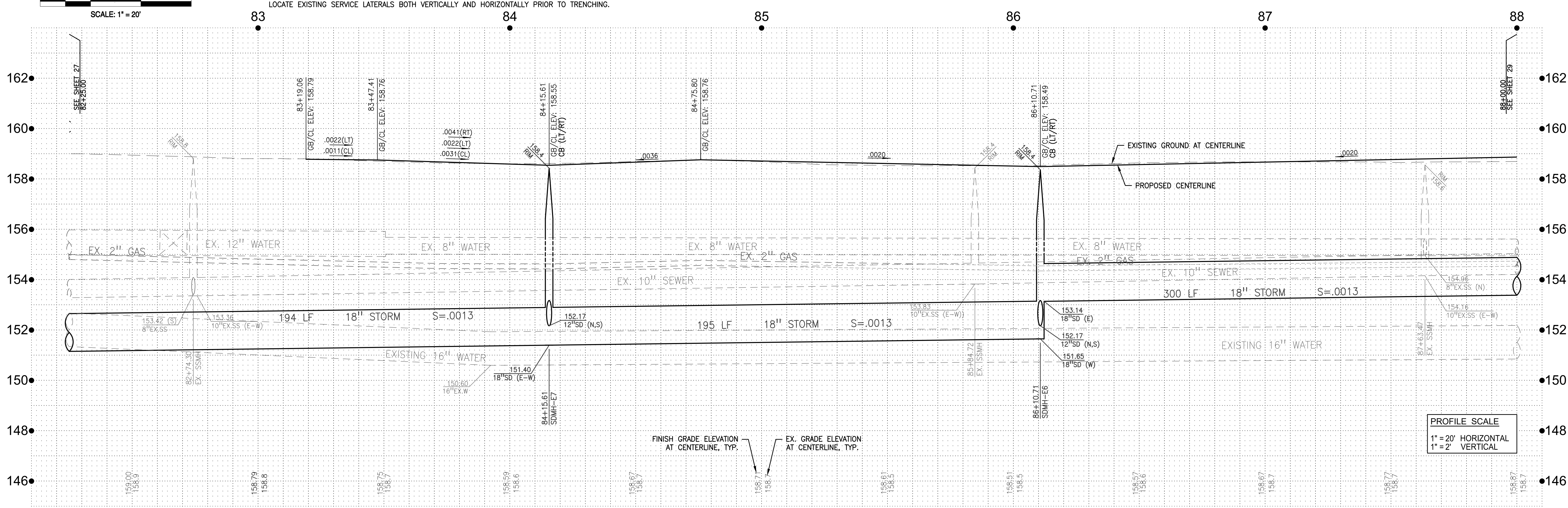
FRUITLAND AVENUE

STA: 82+25.00 TO 88+00.00

LEGEND

AREA TO BE PAVED PER ROADWAY IMPROVEMENTS

FACE OF CURB CURVE TABLE			
CURVE	DELTA	ARC LENGTH	RADIUS
C1	92°41'31"	24.27	15.00
C2	90°00'27"	23.56	15.00



PROFILE SCALE
 1" = 20' HORIZONTAL
 1" = 2' VERTICAL



No.	MM/YY	Description	By	Appd.

Client/Project: CITY OF ATWATER, FRUITLAND AVENUE RECONSTRUCTION PROJECT PHASE III, BID CALL NUMBER: 725-24, CITY PROJECT NUMBER: 16-2-3, ATWATER, CALIFORNIA

Title: PLAN & PROFILE STA: 82+25.00 TO 88+00.00

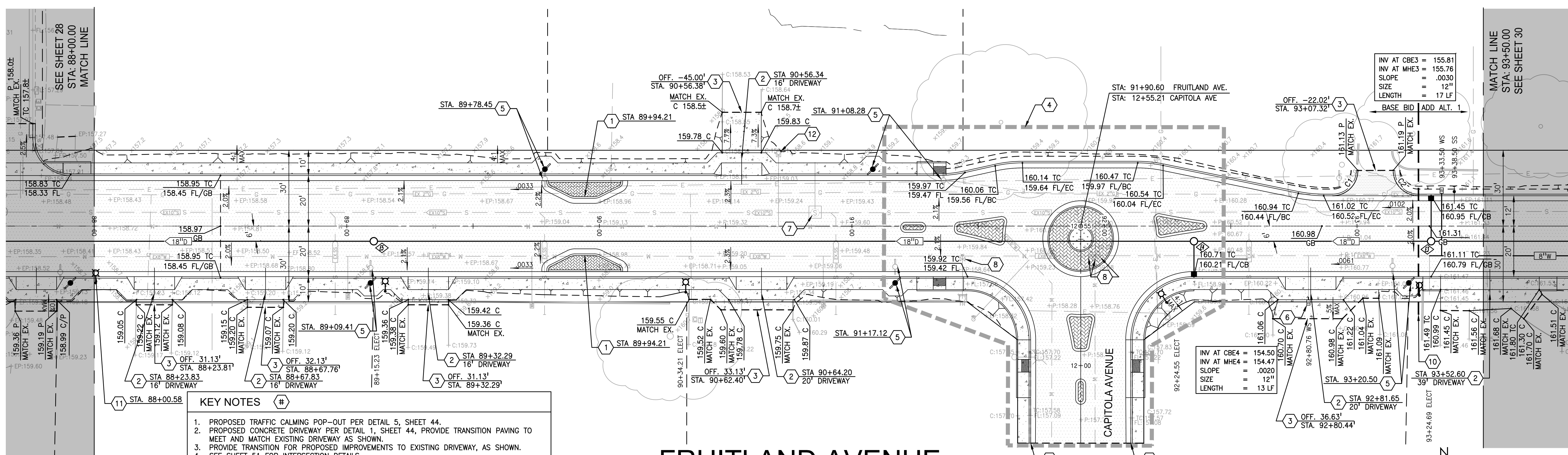
Engineer's Seal: REGISTERED PROFESSIONAL ENGINEER, ROBERT FRANCIS CHRISTENSEN, CIVIL, STATE OF CALIFORNIA, EXP. 06-30-24

Engineer's Signature: Robert S. Christensen, Signature Date: 04.15.2024

811

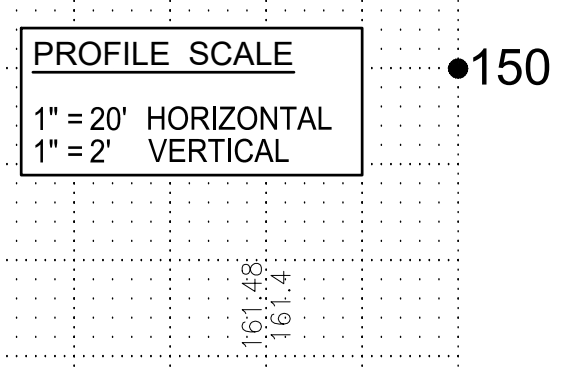
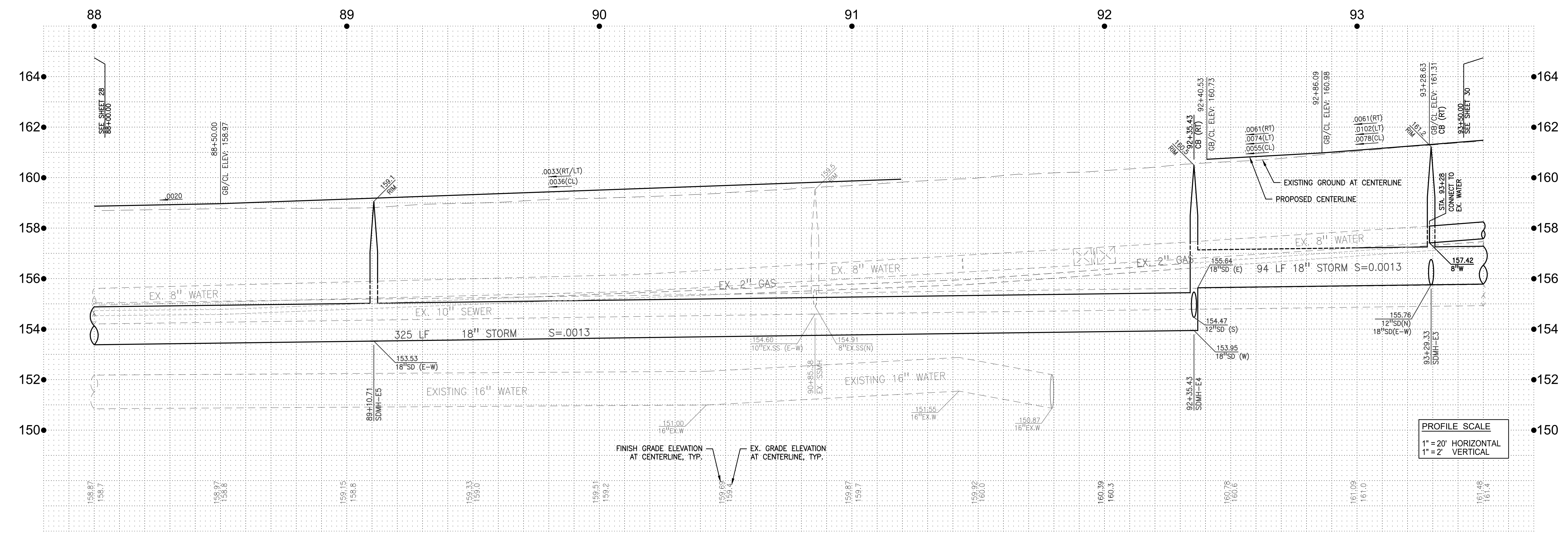
Know what's below. Call before you dig.

Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 28_PNP
 JWP RFC IY 03.26.24
 Dwn Chkd. Dgmn. MM.DD.YY
 Sheet No.



- KEY NOTES**
- PROPOSED TRAFFIC CALMING POP-OUT PER DETAIL 5, SHEET 44.
 - PROPOSED CONCRETE DRIVEWAY PER DETAIL 1, SHEET 44, PROVIDE TRANSITION PAVING TO MEET AND MATCH EXISTING DRIVEWAY AS SHOWN.
 - PROVIDE TRANSITION FOR PROPOSED IMPROVEMENTS TO EXISTING DRIVEWAY, AS SHOWN.
 - SEE SHEET 51 FOR INTERSECTION DETAILS.
 - PROPOSED UTILITY POLE RELOCATION. REFER TO SIDEWALK ADJUSTMENT DETAIL 9, SHEET 45.
 - EXTEND EXISTING WATER SERVICE AND RELOCATE EXISTING METER AND BOX BEHIND THE BACK OF SIDEWALK. RECONNECT TO EXISTING RESIDENTIAL SERVICE LINE.
 - ADJUST EXISTING SSMH TO FINISH GRADE.
 - ADJUST EXISTING WATER VALVE BOX TO FINISH GRADE.
 - MATCH EXISTING IMPROVEMENTS.
 - SEE BASE BID PHASING DETAIL 13, SHEET 46.
 - PROPOSED STREETLIGHT TO BE INSTALLED BY UTILITY COMPANY.
 - ADJUST EXISTING WATER METER BOX TO FINISH GRADE.
- NOTE: EXISTING SEWER AND WATER LATERALS ARE SHOWN IN ASSUMED LOCATIONS ONLY. LOCATE EXISTING SERVICE LATERALS BOTH VERTICALLY AND HORIZONTALLY PRIOR TO TRENCHING.

FRUITLAND AVENUE
STA: 88+00.00 TO 93+50.00



CONSULTING ENGINEERS

430 10th Street
 Modesto, CA 95354
 Tel: 209.568.4477
 Fax: 209.568.4478

The Contractor shall verify and be responsible for all drawings. Do NOT make any changes to drawings or details without the approval of the engineer. The Engineer shall not be held responsible for any errors or omissions in this drawing. This drawing shall not be used for construction until sealed, signed and dated by the Engineer.

No.	MM/YY	Description	By	Appd.

Client/Project: CITY OF ATWATER
 FRUITLAND AVENUE
 RECONSTRUCTION PROJECT PHASE III
 BID CALL NUMBER: 725-24
 CITY PROJECT NUMBER: 16-2-3
 ATWATER, CALIFORNIA

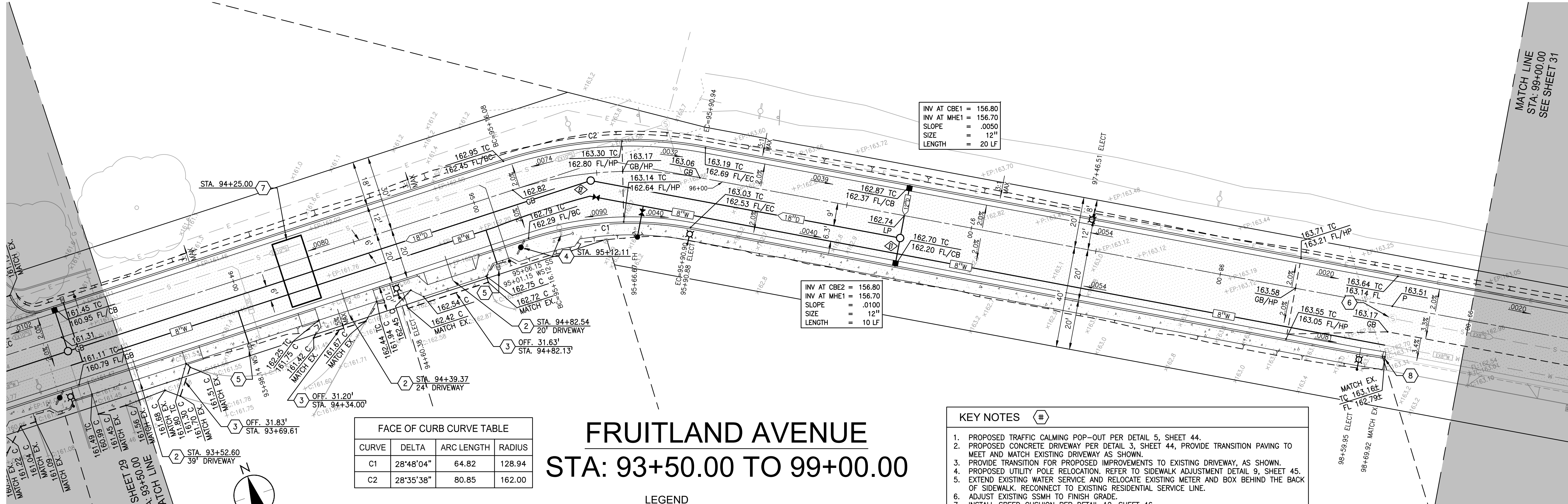
Engineer's Seal: **ROBERT FRANCIS CHRISTENSEN**, CIVIL ENGINEER, STATE OF CALIFORNIA, EXP. 06-30-24

Engineer's Signature: *Robert S. Christensen*
 Signature Date: 04.15.2024

811
 Know what's below.
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Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 29_PNP
 JWP RFC IY 03.26.24
 Dwn Chkd. Dgmn. MM.00.YY
 Sheet No.

29 of 83 sheets



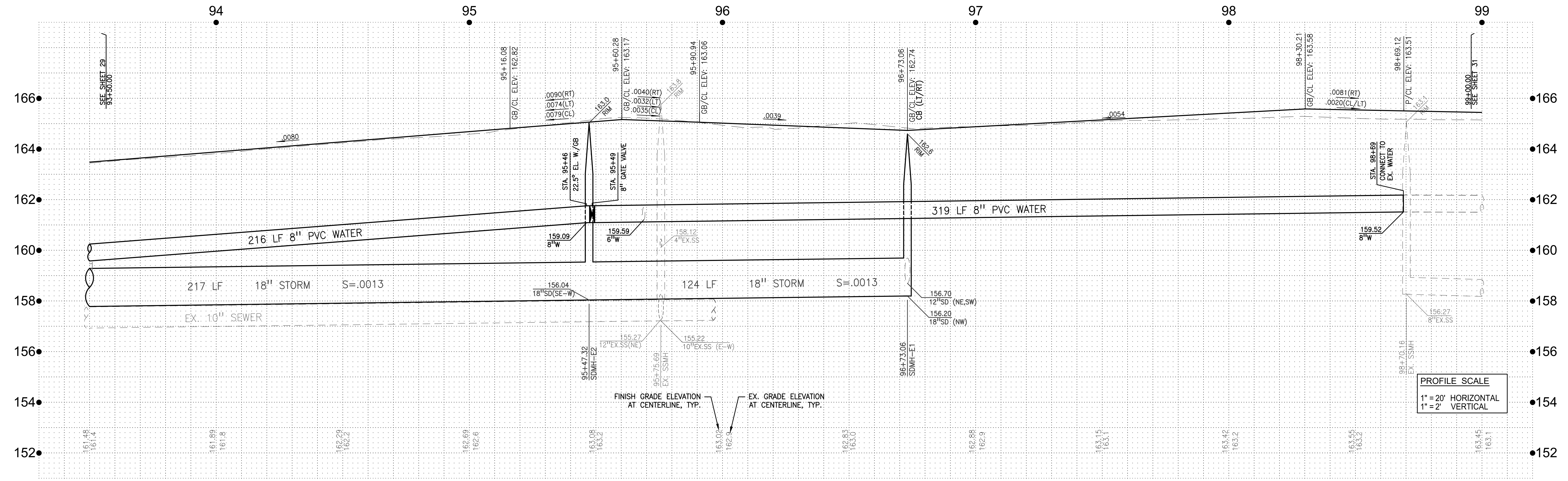
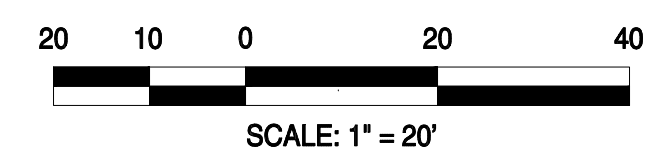
FRUITLAND AVENUE STA: 93+50.00 TO 99+00.00

FACE OF CURB CURVE TABLE			
CURVE	DELTA	ARC LENGTH	RADIUS
C1	28°48'04"	64.82	128.94
C2	28°35'38"	80.85	162.00

INV AT CBE1 = 156.80
 INV AT MHE1 = 156.70
 SLOPE = .0050
 SIZE = 12" I
 LENGTH = 20 LF

INV AT CBE2 = 156.80
 INV AT MHE1 = 156.70
 SLOPE = .0100
 SIZE = 12" I
 LENGTH = 10 LF

- #### KEY NOTES #
1. PROPOSED TRAFFIC CALMING POP-OUT PER DETAIL 5, SHEET 44.
 2. PROPOSED CONCRETE DRIVEWAY PER DETAIL 3, SHEET 44, PROVIDE TRANSITION PAVING TO MEET AND MATCH EXISTING DRIVEWAY AS SHOWN.
 3. PROVIDE TRANSITION FOR PROPOSED IMPROVEMENTS TO EXISTING DRIVEWAY, AS SHOWN.
 4. PROPOSED UTILITY POLE RELOCATION. REFER TO SIDEWALK ADJUSTMENT DETAIL 9, SHEET 45.
 5. EXTEND EXISTING WATER SERVICE AND RELOCATE EXISTING METER AND BOX BEHIND THE BACK OF SIDEWALK. RECONNECT TO EXISTING RESIDENTIAL SERVICE LINE.
 6. ADJUST EXISTING SSMH TO FINISH GRADE.
 7. INSTALL SPEED CUSHION PER DETAIL 12, SHEET 46.
 8. MATCH EXISTING IMPROVEMENTS.
- NOTE: EXISTING SEWER AND WATER LATERALS ARE SHOWN IN ASSUMED LOCATIONS ONLY. LOCATE EXISTING SERVICE LATERALS BOTH VERTICALLY AND HORIZONTALLY PRIOR TO TRENCHING.



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No.	MM.YY	Description	By	App'd.

Client/Project
 CITY OF ATWATER
 FRUITLAND AVENUE
 RECONSTRUCTION PROJECT PHASE III
 BID CALL NUMBER: 725-24
 CITY PROJECT NUMBER: 16-2-3
 ATWATER, CALIFORNIA

Title
 PLAN & PROFILE STA. 93+50.00 TO 99+00.00

Engineer's Seal

Engineer's Signature:
 Signature Date: 04.15.2024

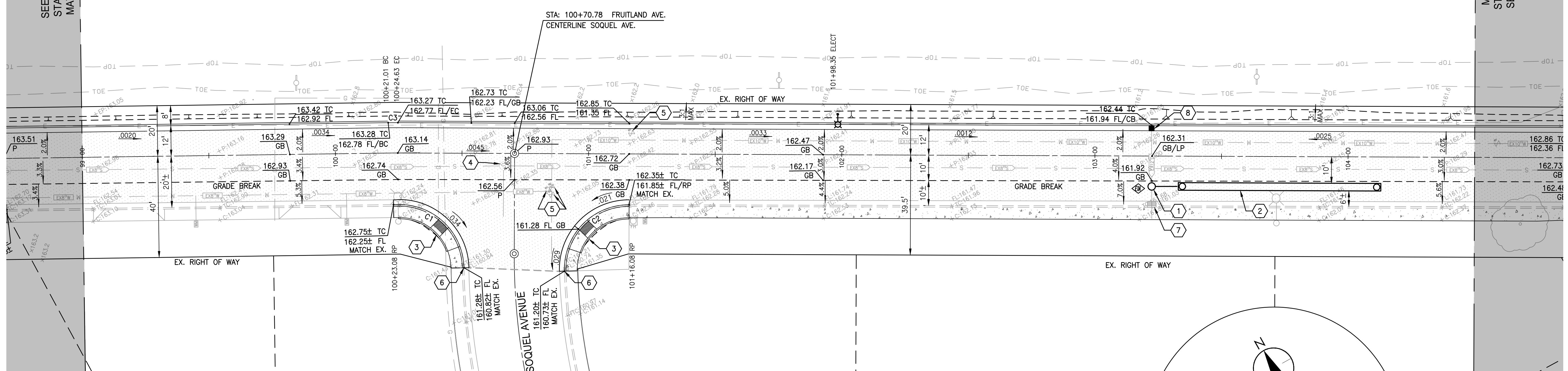
Robert S. Anderson

Know what's below.
 Call before you dig.

Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 30_PNP
 JVP: RFC IY 03.26.24
 Dwn: Chkd. Dqgn. MM.00.YY
 Sheet No.

SEE SHEET 30
STA: 99+00.00
MATCH LINE

MATCH LINE
STA: 104+50.00
SEE SHEET 32



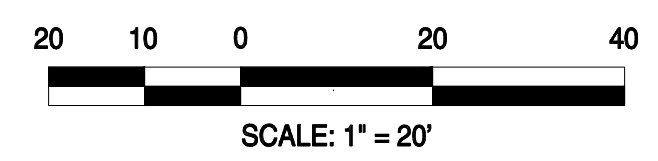
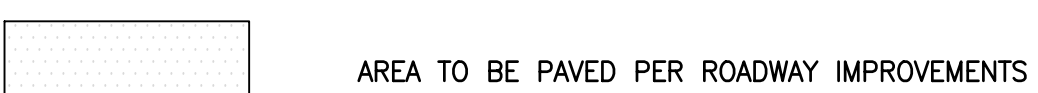
KEY NOTES

1. CONSTRUCT NEW MANHOLE ON EX. STORM DRAIN LINE.
2. CONSTRUCT FRENCH DRAIN (80 LF 36" PERFORATED PIPE WITH 4"x4" ROCK TRENCH) PER DETAIL 10, SHEET 45.
3. RECONSTRUCT CURB RETURNS AND INSTALL ADA RAMP PER CALTRANS STD PLAN AB8A, CASE C.
4. ADJUST EXISTING SSMH TO FINISH GRADE.
5. ADJUST EXISTING WATER VALVE BOX TO FINISH GRADE.
6. MATCH EXISTING IMPROVEMENTS.
7. PROTECT EXISTING CATCH BASIN IN PLACE.
8. INSTALL CATCH BASIN WITH INLET FILTER.

NOTE: EXISTING SEWER AND WATER LATERALS ARE SHOWN IN ASSUMED LOCATIONS ONLY. LOCATE EXISTING SERVICE LATERALS BOTH VERTICALLY AND HORIZONTALLY PRIOR TO TRENCHING.

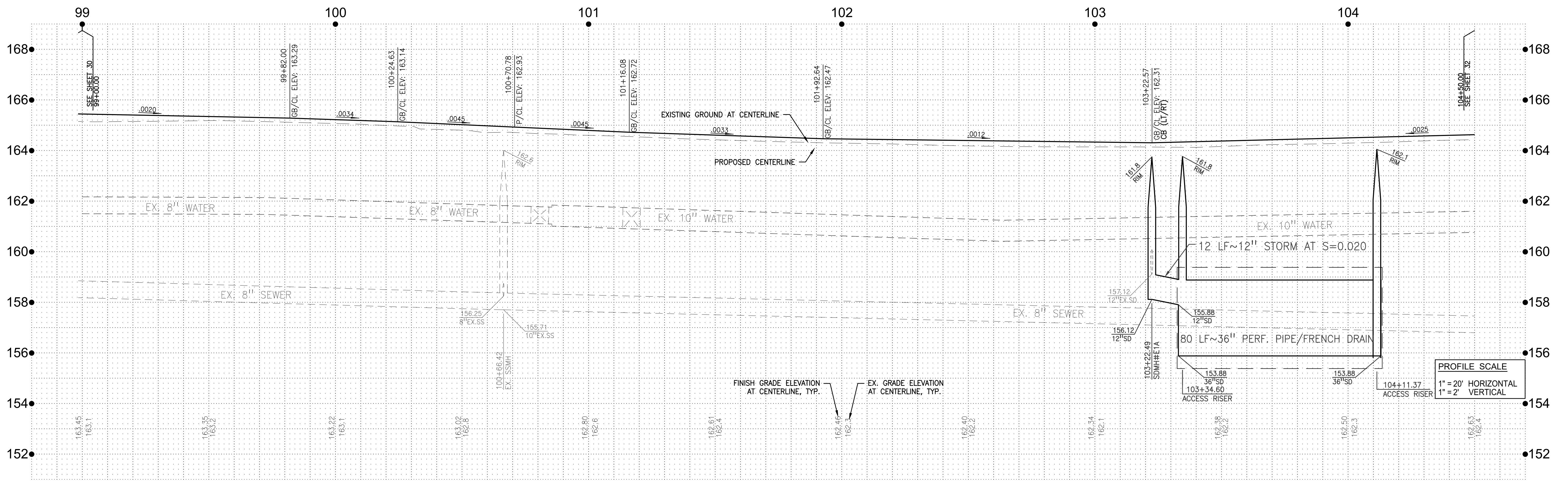
FRUITLAND AVENUE STA: 99+00.00 TO 104+50.00

LEGEND



FACE OF CURB CURVE TABLE

CURVE	DELTA	ARC LENGTH	RADIUS
C1	89°35'31"	39.87	25.50
C2	91°48'00"	40.86	25.50
C3	1°02'13"	3.84	212.00



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430 10th Street
Modesto, CA 95354
Tel: 209.588.4477
Fax: 209.588.4478

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No.	MM.YY	Description	By	Appd.

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

Engineer's Seal
REGISTERED PROFESSIONAL ENGINEER
ROBERT FRANCIS CHRISTENSEN
CE 50877
EXP. 06-30-24
CIVIL
STATE OF CALIFORNIA
Robert F. Christensen

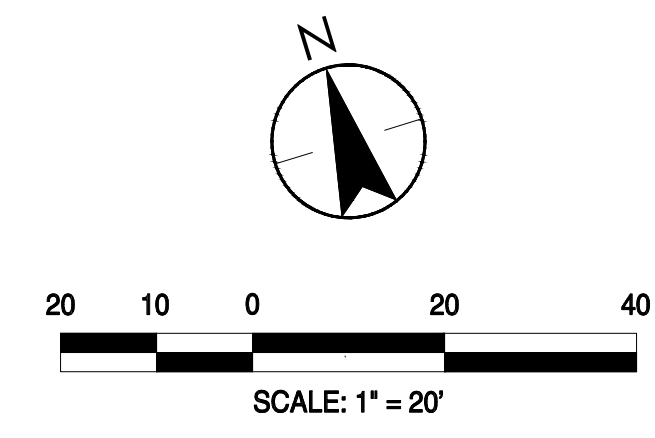
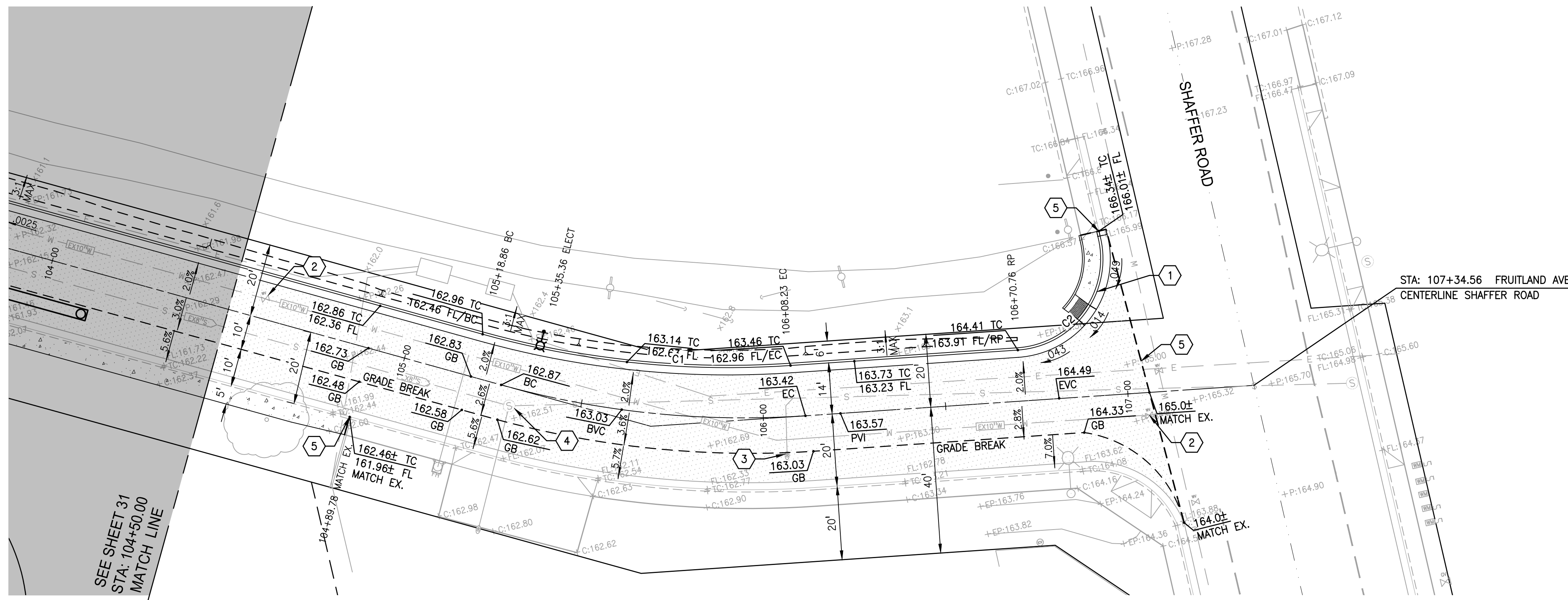
Engineer's Signature:
Signature Date: 04.15.2024

Title
PLAN & PROFILE STA: 99+00.00 TO 104+50.00

Know what's below.
Call before you dig.

Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 31_PNP
JWP RFC IY 03.26.24
Dwn Chkd. Dsgn. MM.DD.YY
Sheet No.

91 of 83 sheets



FRUITLAND AVENUE STA: 104+50.00 TO 107+34.56

FACE OF CURB CURVE TABLE			
CURVE	DELTA	ARC LENGTH	RADIUS
C1	19°21'05\"	85.11	252.00
C2	99°11'35\"	43.28	25.00

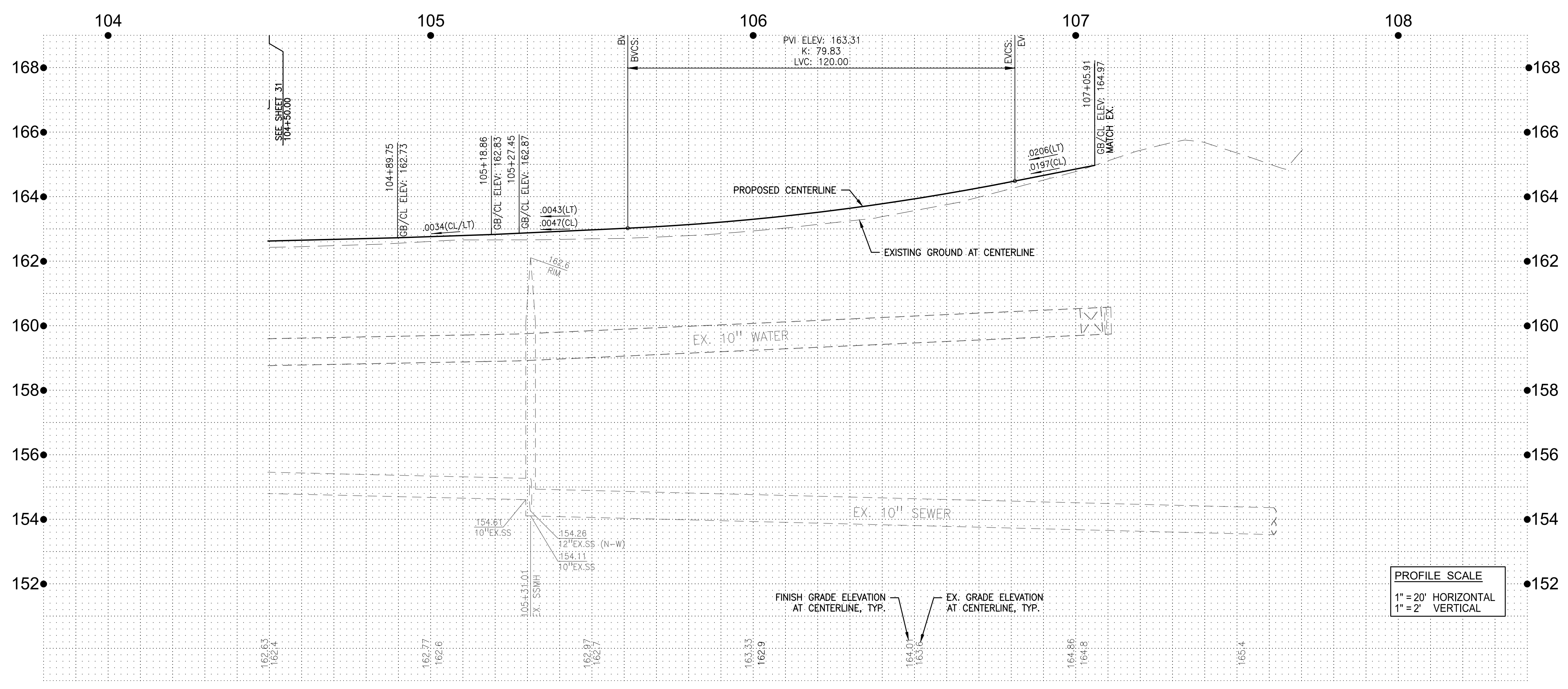
- KEY NOTES** #

 1. CONSTRUCT CURB RETURN WITH ADA RAMP PER CALTRANS STD. PLAN A88B, CASE CH.
 2. ADJUST EXISTING WATER VALVE BOX TO FINISH GRADE.
 3. ADJUST EXISTING CLEANOUT COVER TO GRADE.
 4. ADJUST EXISTING SSMH COVER TO GRADE.
 5. MATCH EXISTING IMPROVEMENTS.

NOTE: EXISTING SEWER AND WATER LATERALS ARE SHOWN IN ASSUMED LOCATIONS ONLY. LOCATE EXISTING SERVICE LATERALS BOTH VERTICALLY AND HORIZONTALLY PRIOR TO TRENCHING.

LEGEND

AREA TO BE PAVED PER ROADWAY IMPROVEMENTS



PROFILE SCALE
 1" = 20' HORIZONTAL
 1" = 2' VERTICAL

W&A CONSULTING ENGINEERS

430 10th Street
Modesto, CA 95354
Tel.: 209.568.4477
Fax: 209.568.4478

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No.	MM.YY	Description	By	Appl.

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

Title
PLAN & PROFILE STA: 104+50.00 TO 107+34.56

Engineer's Seal

REGISTERED PROFESSIONAL ENGINEER

ROBERT FRANCIS CHRISTENSEN

CE 3087

EXP. 06-30-24

CIVIL

STATE OF CALIFORNIA

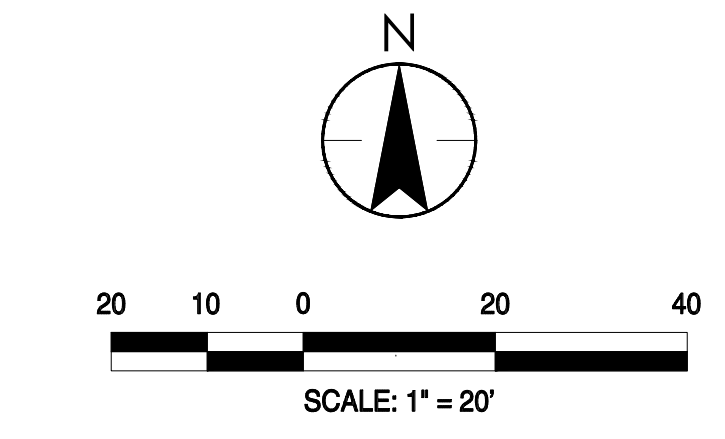
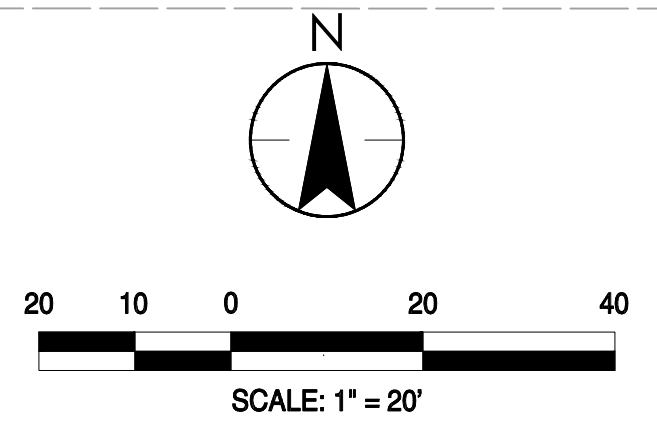
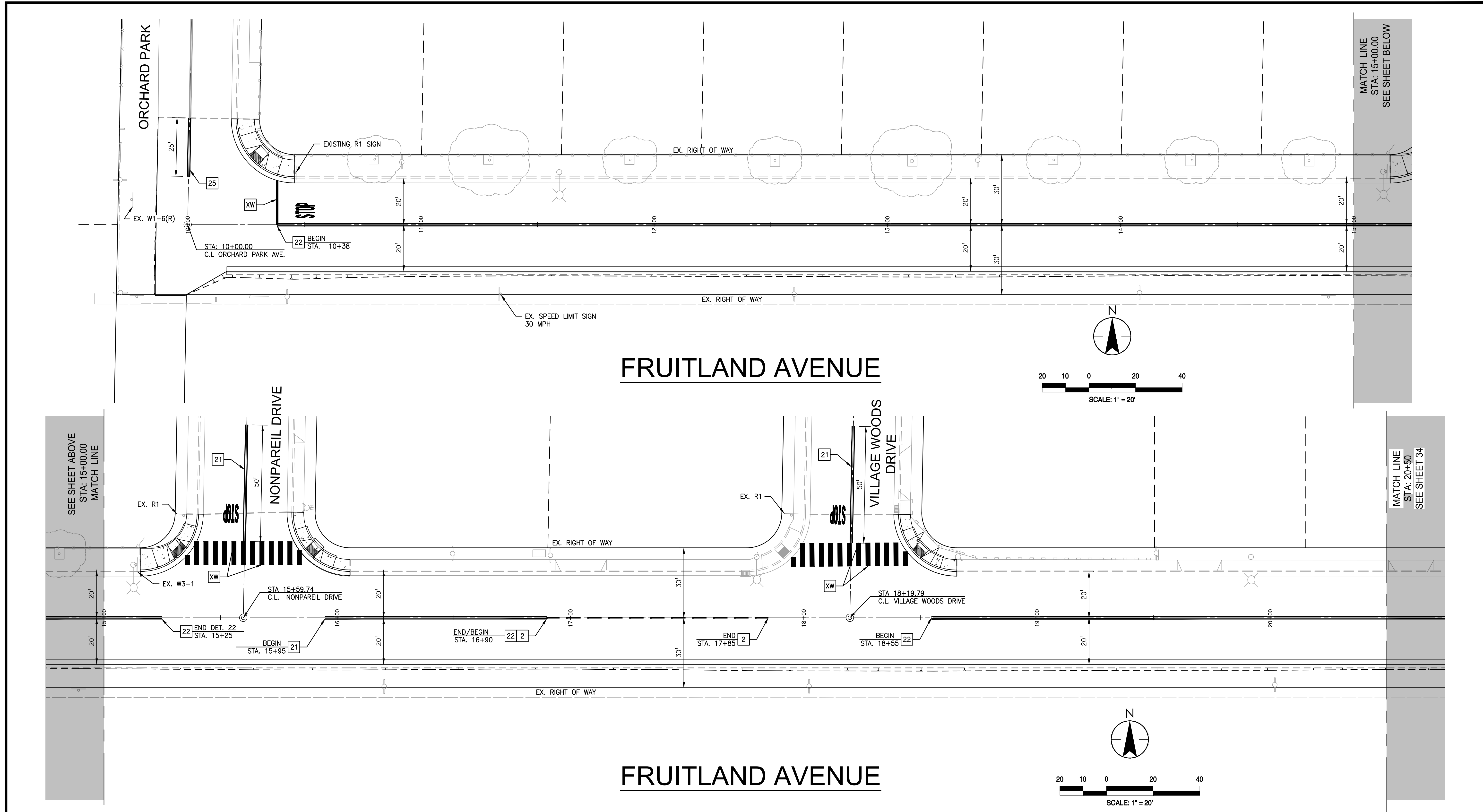
Engineer's Signature:
Signature Date: 04.15.2024

**Know what's below.
Call before you dig.**

Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 32_PNP
JVP: RFC IY 03.26.24
Dwn: Chkd. Dgmn. MM-DD-YY
Sheet No.

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LEGEND (APPLIES TO ALL STRIPING & SIGNAGE PLAN SHEETS)			
[22]	[R1]	INSTALL CALTRANS STRIPING / SIGNAGE DETAIL NUMBER	PROPOSED SIGN
[XW]		INSTALL WHITE THERMOPLASTIC CROSSWALK / STOP BAR	PROPOSED DOUBLE YELLOW LINE PAVEMENT STRIPING
[XY]		INSTALL YELLOW THERMOPLASTIC CROSSWALK / STOP BAR	PROPOSED SINGLE [WHITE/YELLOW] LINE PAVEMENT STRIPING
[W(Y)]		INSTALL WORD MARKINGS PER PLAN (YELLOW)	PROPOSED SINGLE [WHITE/YELLOW] DASHED LINE PAVEMENT STRIPING
[S]	[SW24-2(CA)]	INSTALL SCHOOL AREA SIGN AS NOTED	PROPOSED "STOP" PAVEMENT MARKING*
[W]	[W16-P]	INSTALL WARNING SIGN AS NOTED	PROPOSED STOP BAR AND "STOP" PAVEMENT MARKING*
[R]	[R4-7A]	INSTALL REGULATORY SIGN AS NOTED	PROPOSED YIELD PAVEMENT MARKINGS
[W(L)]	[III]	INSTALL CALTRANS ARROW MARKING TYPE	PROPOSED PAVEMENT MARKING, TYP*

STRIPING GENERAL NOTES	
1.	DETAILS FOR PAVEMENT MARKINGS AND SIGNS IN THESE PLANS ARE AS DESCRIBED IN THE CALIFORNIA MUTCD 2014 EDITION. ALL PAVEMENT MARKINGS AND SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH THIS MANUAL.
2.	PAVEMENT SHALL BE "CAT-TRACKED" PRIOR TO PLACEMENT OF STRIPING. PAVEMENT DELINEATION SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER PRIOR TO FINAL APPLICATION OF LANE LINES AND MARKINGS.
3.	ALL CROSSWALK LINES, STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
4.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRIPING, SIGNAGE AND PAVEMENT MARKINGS IN CONFLICT WITH PLAN. REMOVAL OF EXISTING STRIPING, SIGNAGE AND PAVEMENT MARKING WILL BE REQUIRED AS NECESSARY TO THE EXISTING STRIPING INTO PROPOSED STRIPING. REMOVAL SHALL BE BY GRINDING OR SANDBLASTING.

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 430 10th Street
 Modesto, CA 95354
 Tel.: 209.568.4477
 Fax: 209.568.4478

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No.	MM.YY	By	Appd.	Description

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
 BID CALL NUMBER: 725-24
 CITY PROJECT NUMBER: 16-2-3
 ATWATER, CALIFORNIA

Title
STRIPING & SIGNAGE PLAN

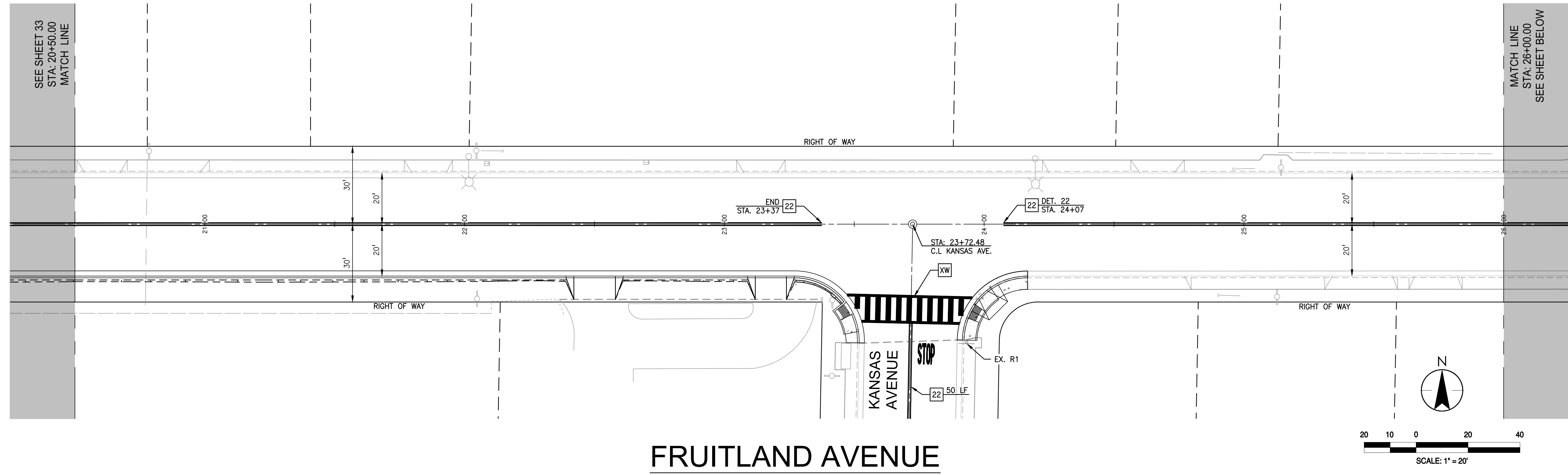
Engineer's Seal

 Robert S. Christensen
 Engineer's Signature:
 Signature Date: 04.15.2024

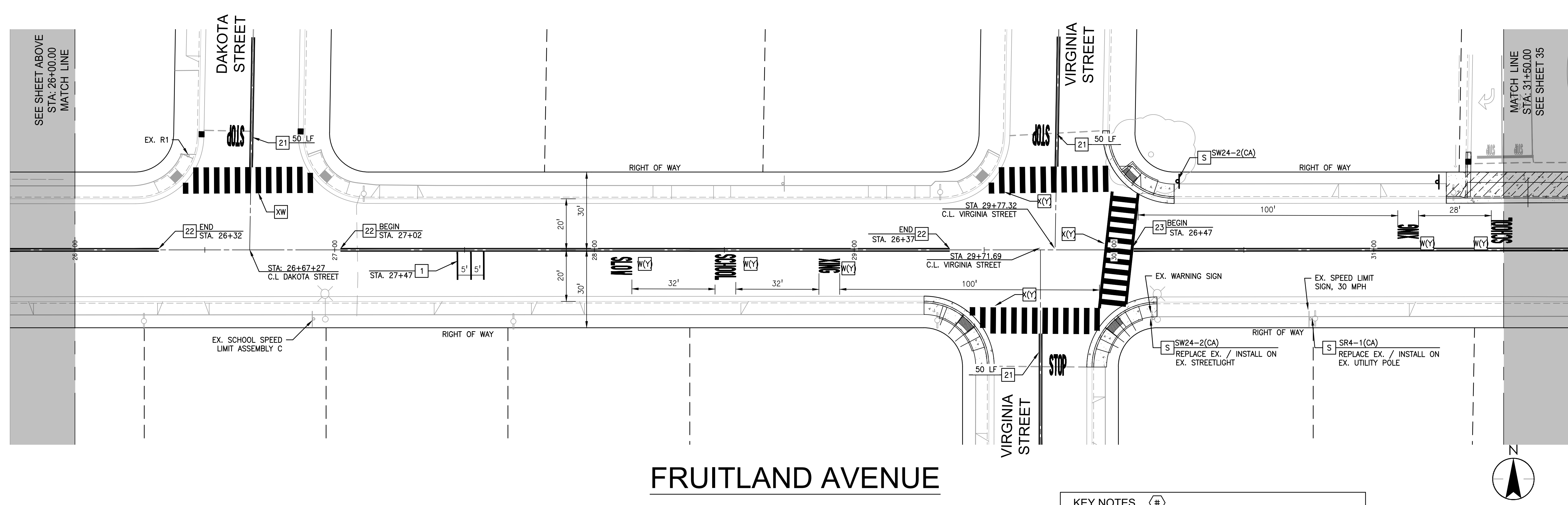
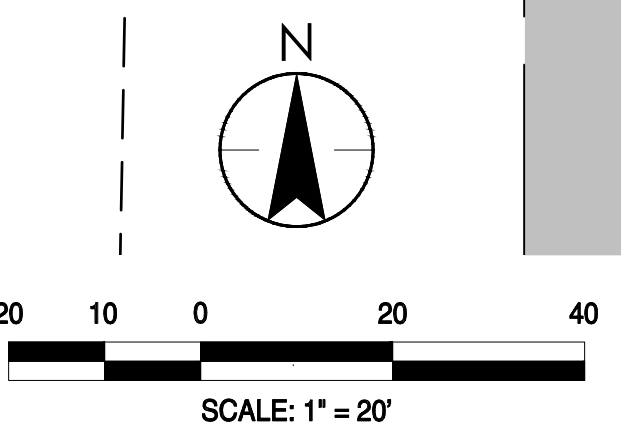
Know what's below.
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Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 33_STRP
 JVP: RFC IY 03.26.24
 Dwn: Chkd. Dsgn. MM-DD-YY
 Sheet No.

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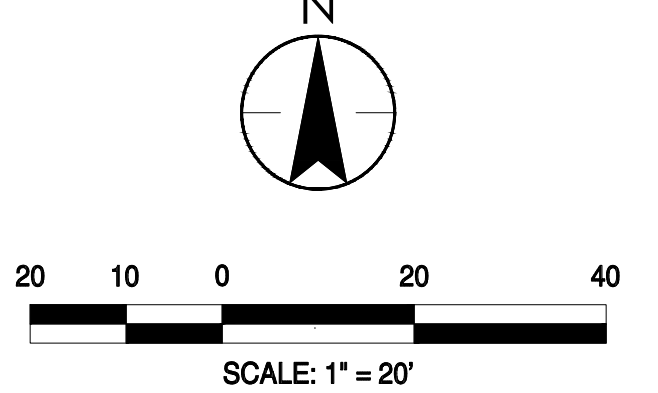


FRUITLAND AVENUE



FRUITLAND AVENUE

- KEY NOTES** #
- INSTALL 3 ROWS OF YELLOW RAISED PAVEMENT MARKERS AT 8" O.C.



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No.	MM.YY	Description	By	Appd.

Client/Project: **CITY OF ATWATER**
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
 BID CALL NUMBER: 725-24
 CITY PROJECT NUMBER: 16-2-3
 ATWATER, CALIFORNIA

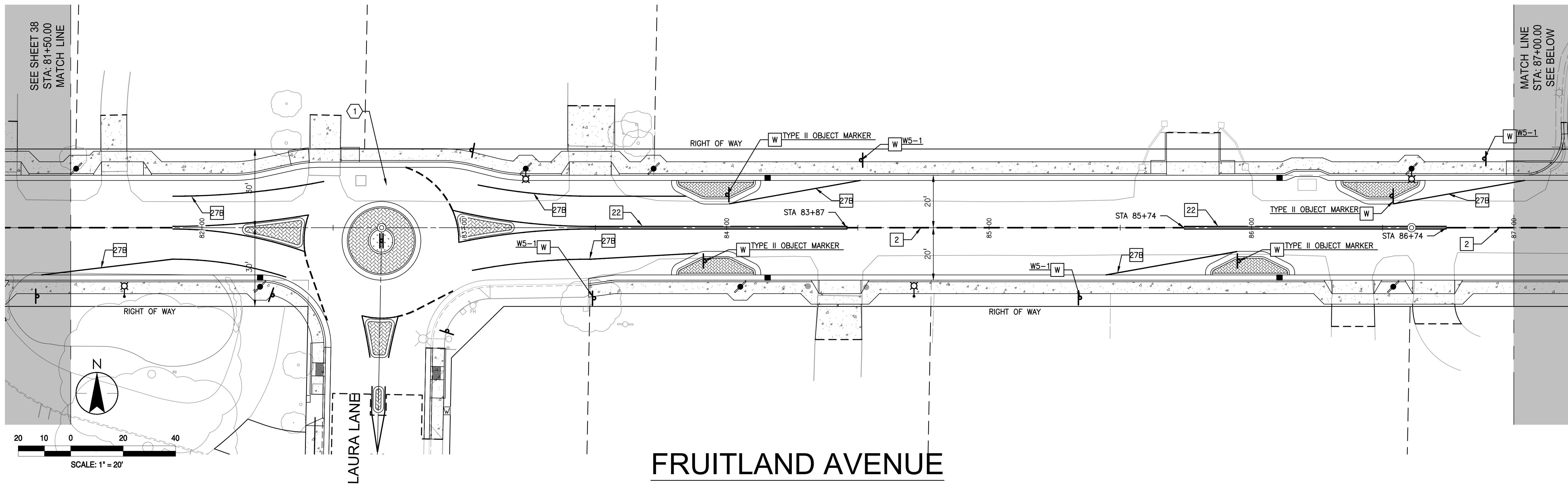
Title: **STRIPING & SIGNAGE PLAN**

Engineer's Seal

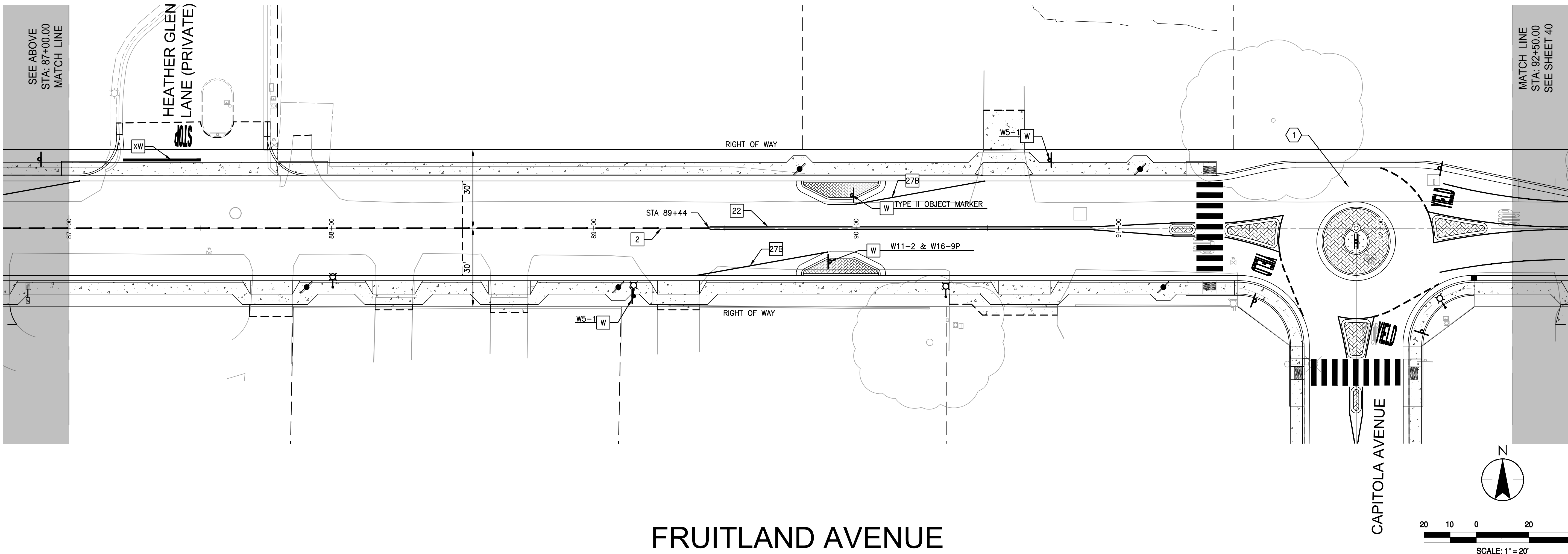
 Robert S. Christensen
 Engineer's Signature: _____
 Signature Date: 04.15.2024

811
 Know what's below.
 Call before you dig.

Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 34_STRP
 JVP: RFC IY 03.26.24
 Dwn: Chkd. Dgmn. MM-DD-YY



FRUITLAND AVENUE



FRUITLAND AVENUE

- KEY NOTES** #
- REFER TO SHEET 44 FOR ADDITIONAL TRAFFIC CIRCLE STRIPING AND SIGNAGE

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No.	MM.YY	Description	By	Appd.

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

Title
STRIPING & SIGNAGE PLAN

Engineer's Seal

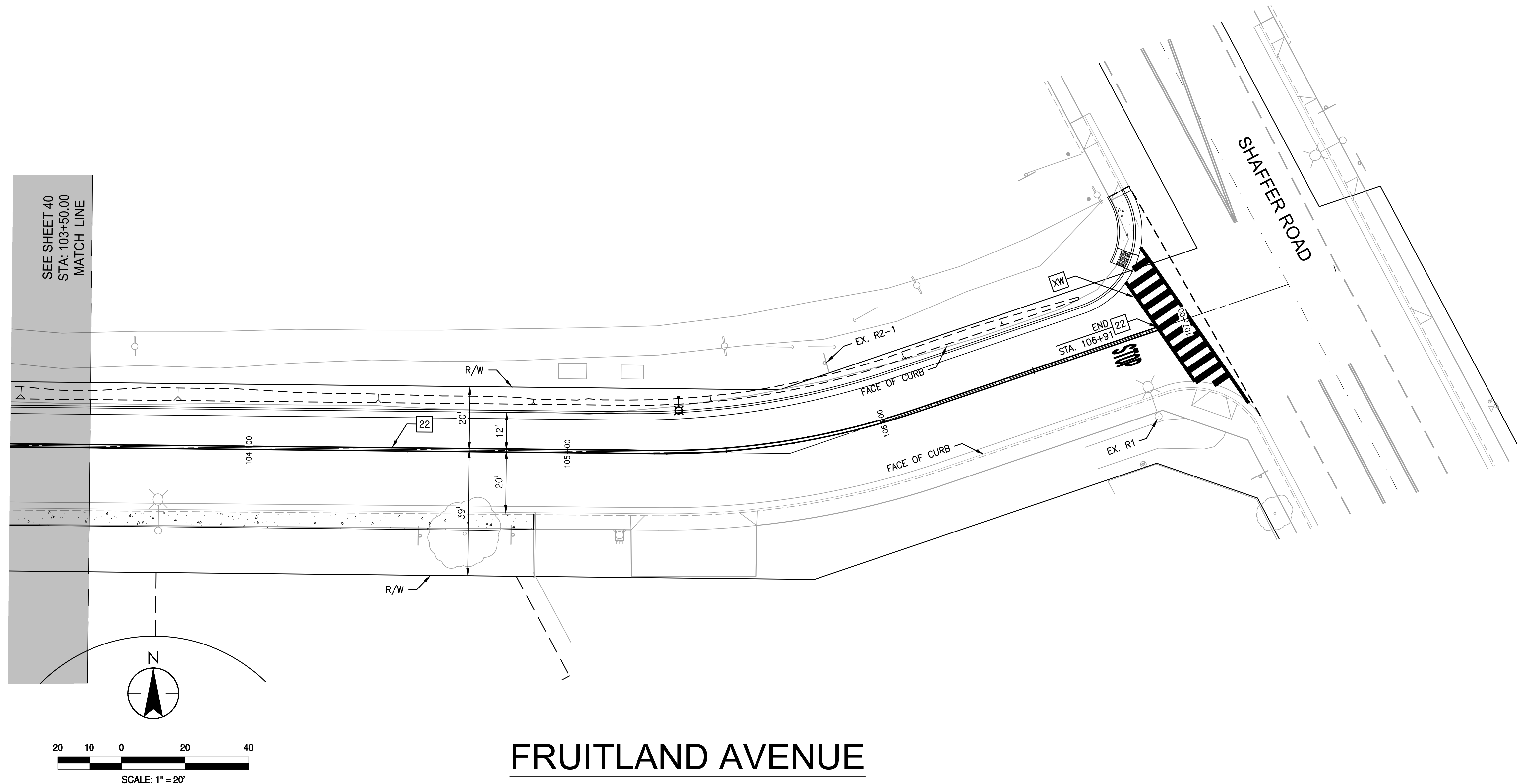
Engineer's Signature:
Robert S. Christensen
Signature Date: 04.15.2024

Know what's below.
Call before you dig.

Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 39_STRP
JVP: RFC IY 03.26.24
Dwn: Chkd. Dagn. MM-DD-YY
Sheet No.

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ORIGINAL SHEET - ARCH D



FRUITLAND AVENUE

SEE SHEET 40
 STA: 103+50.00
 MATCH LINE

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No.	MM.YY	Description	By	Appd.

Client/Project
**CITY OF ATWATER
 FRUITLAND AVENUE
 RECONSTRUCTION PROJECT PHASE III**
 BID CALL NUMBER: 725-24
 CITY PROJECT NUMBER: 16-2-3
 ATWATER, CALIFORNIA

Title
STRIPING & SIGNAGE PLAN

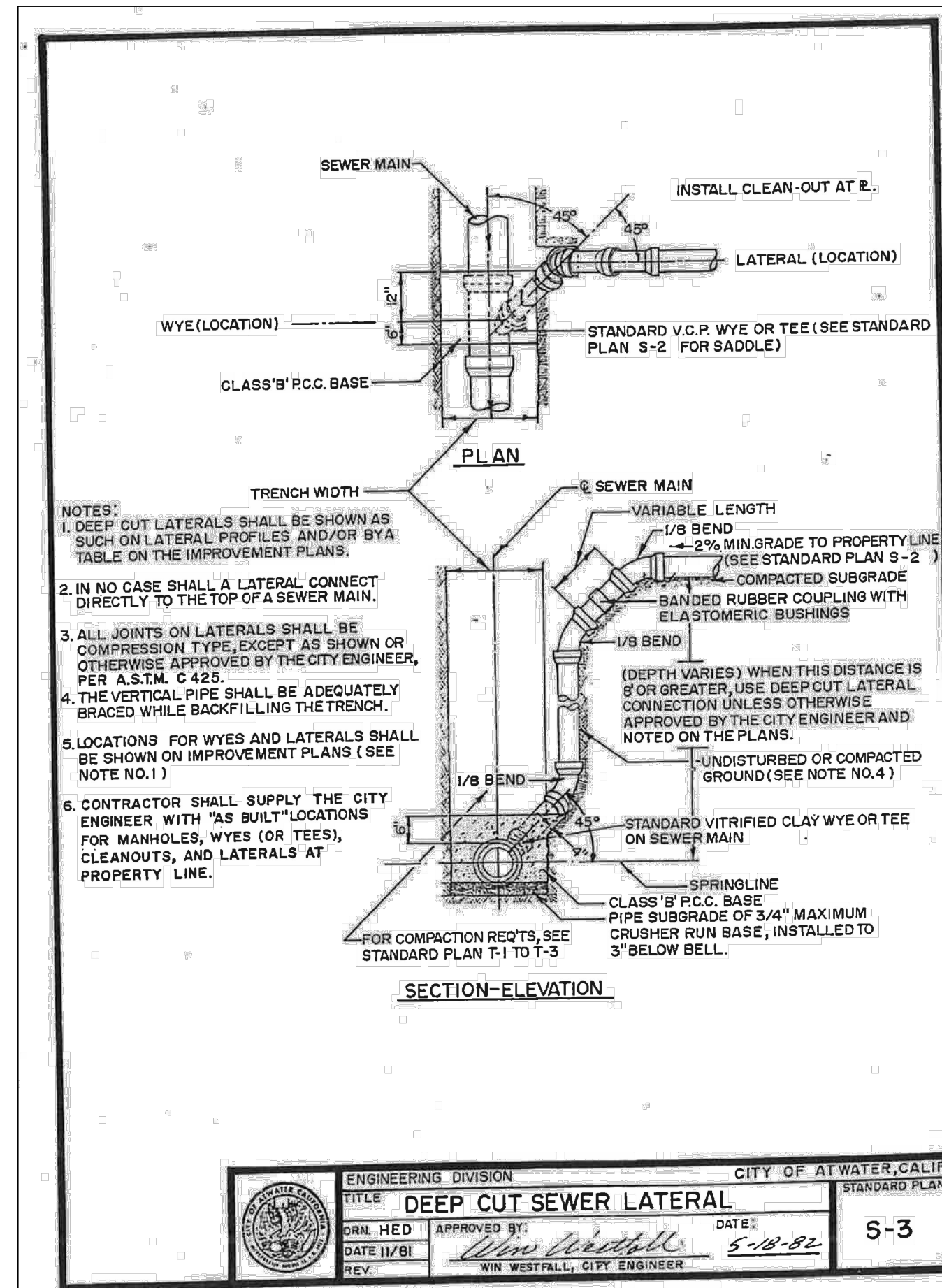
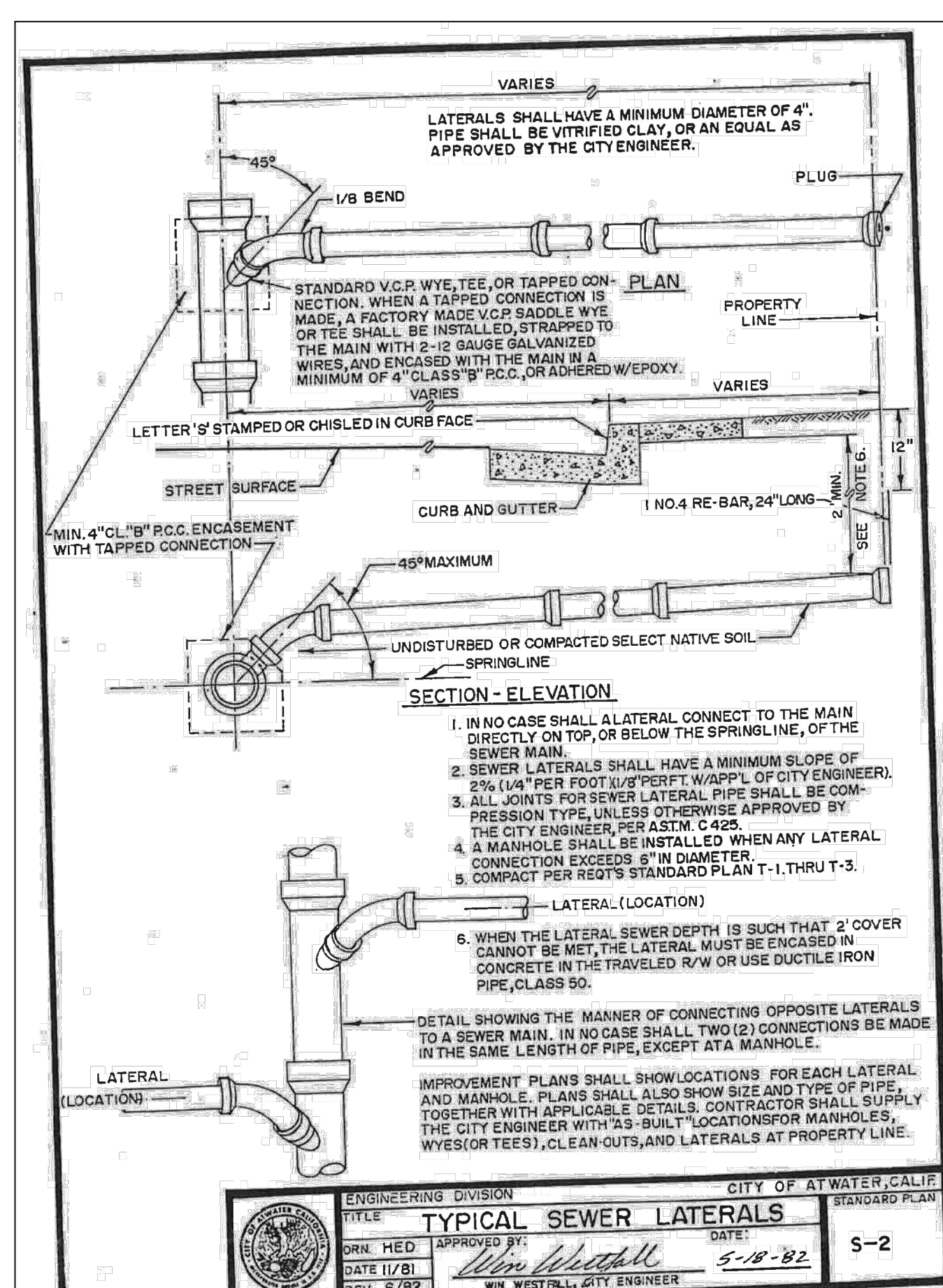
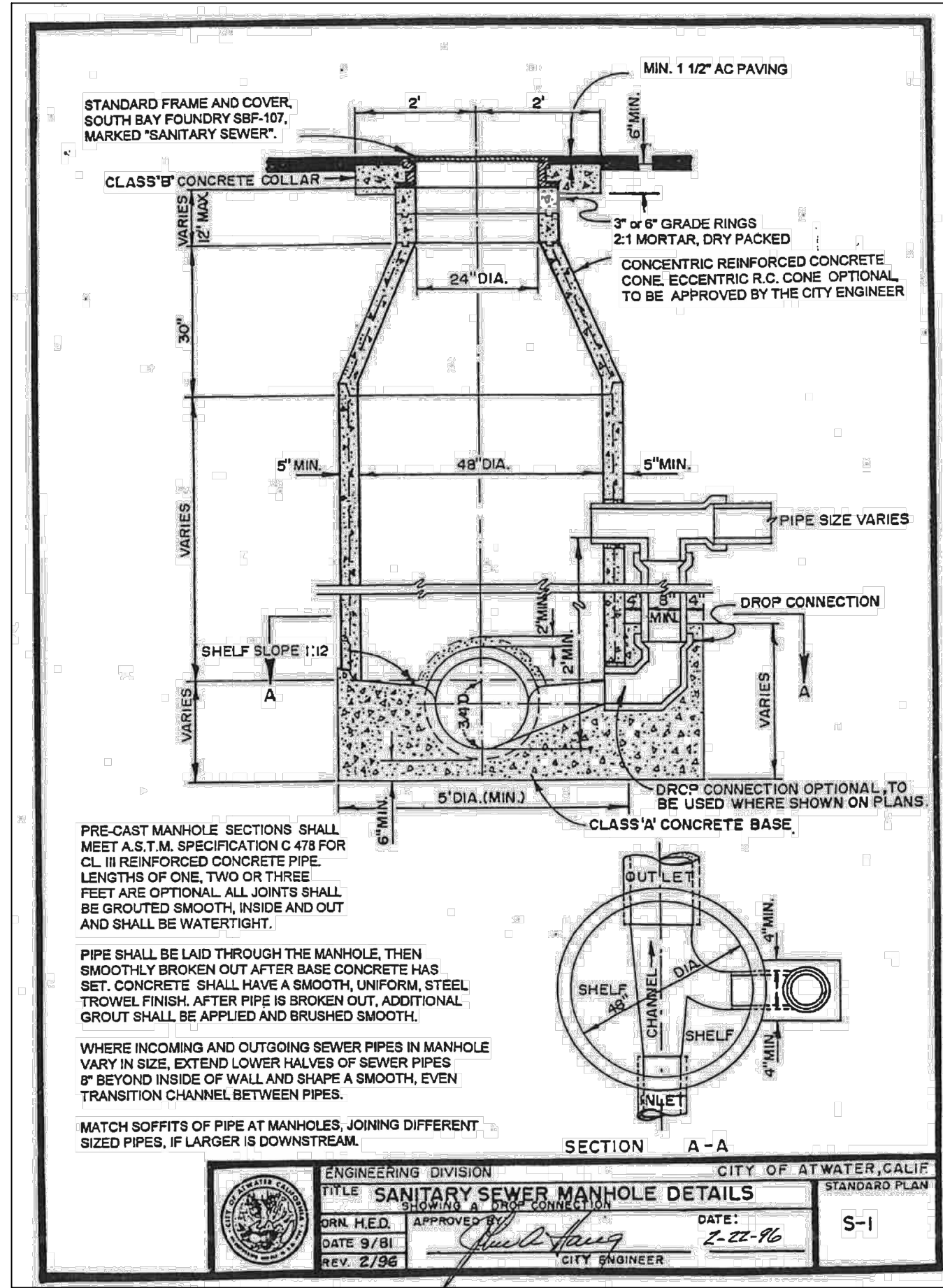
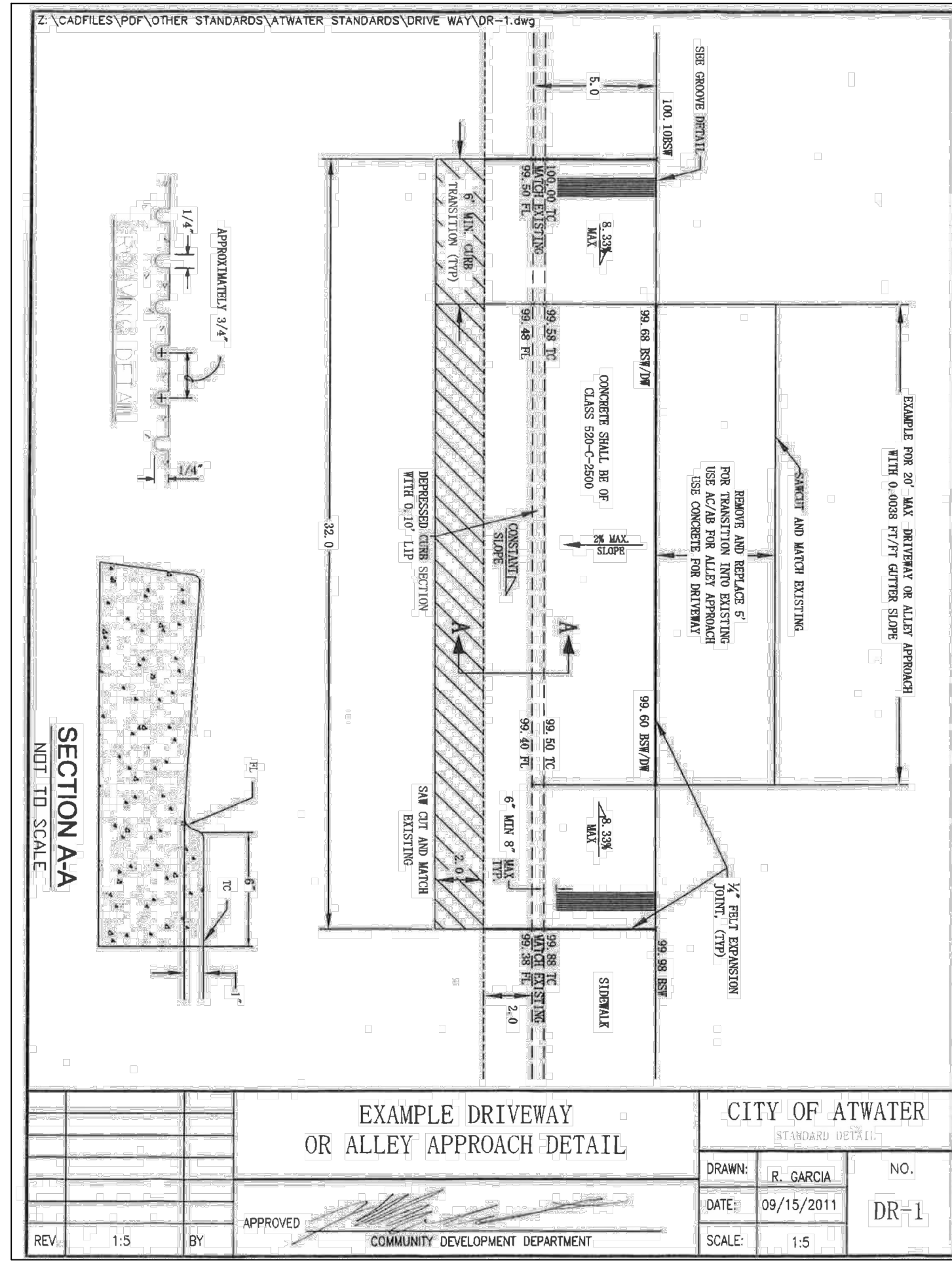
Engineer's Seal

Engineer's Signature: *Robert S. Christensen*
 Signature Date: 04.15.2024

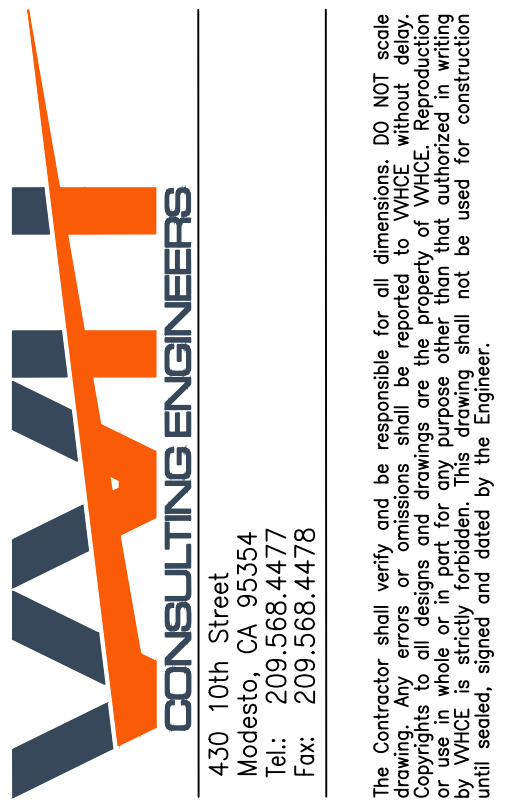
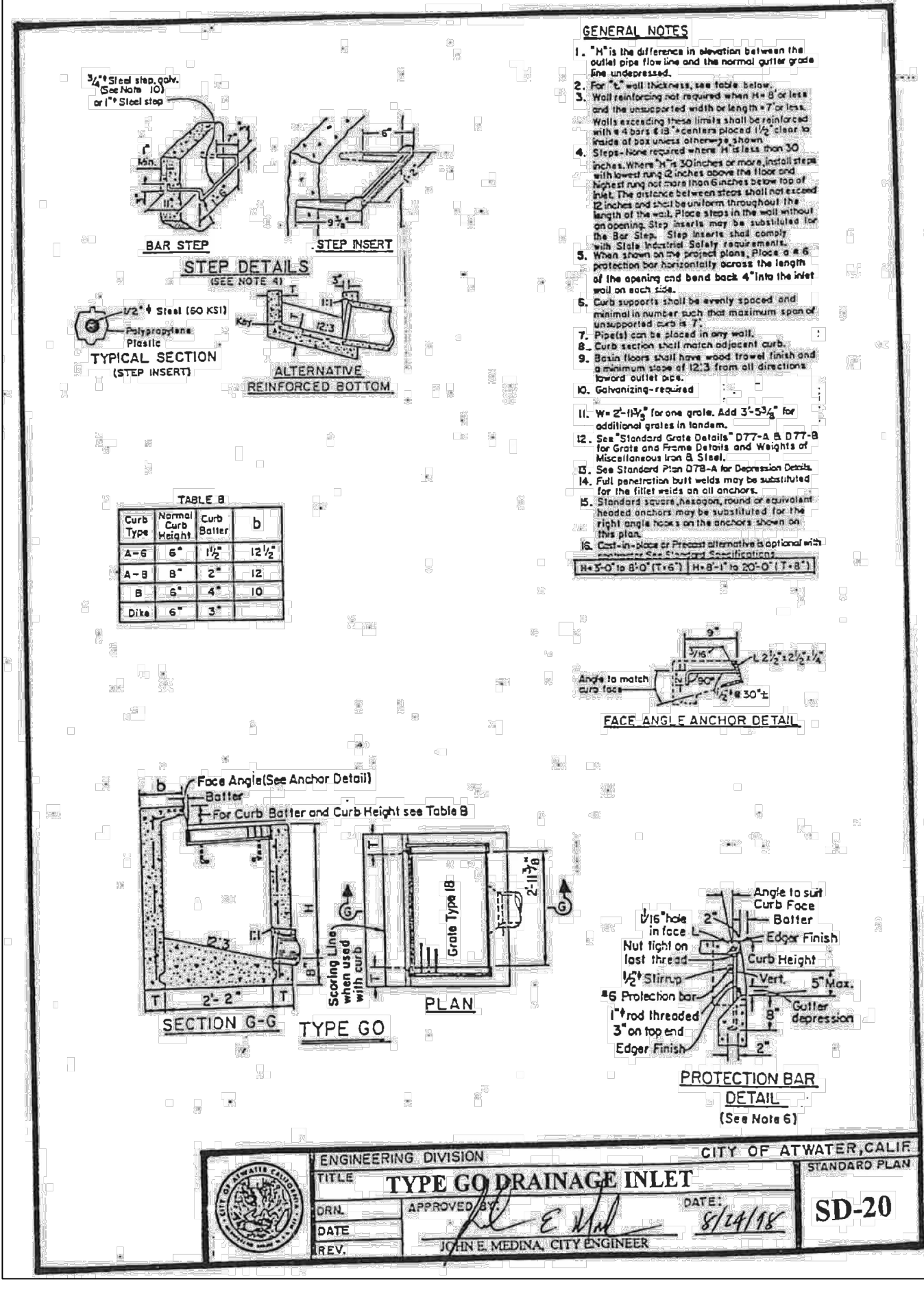
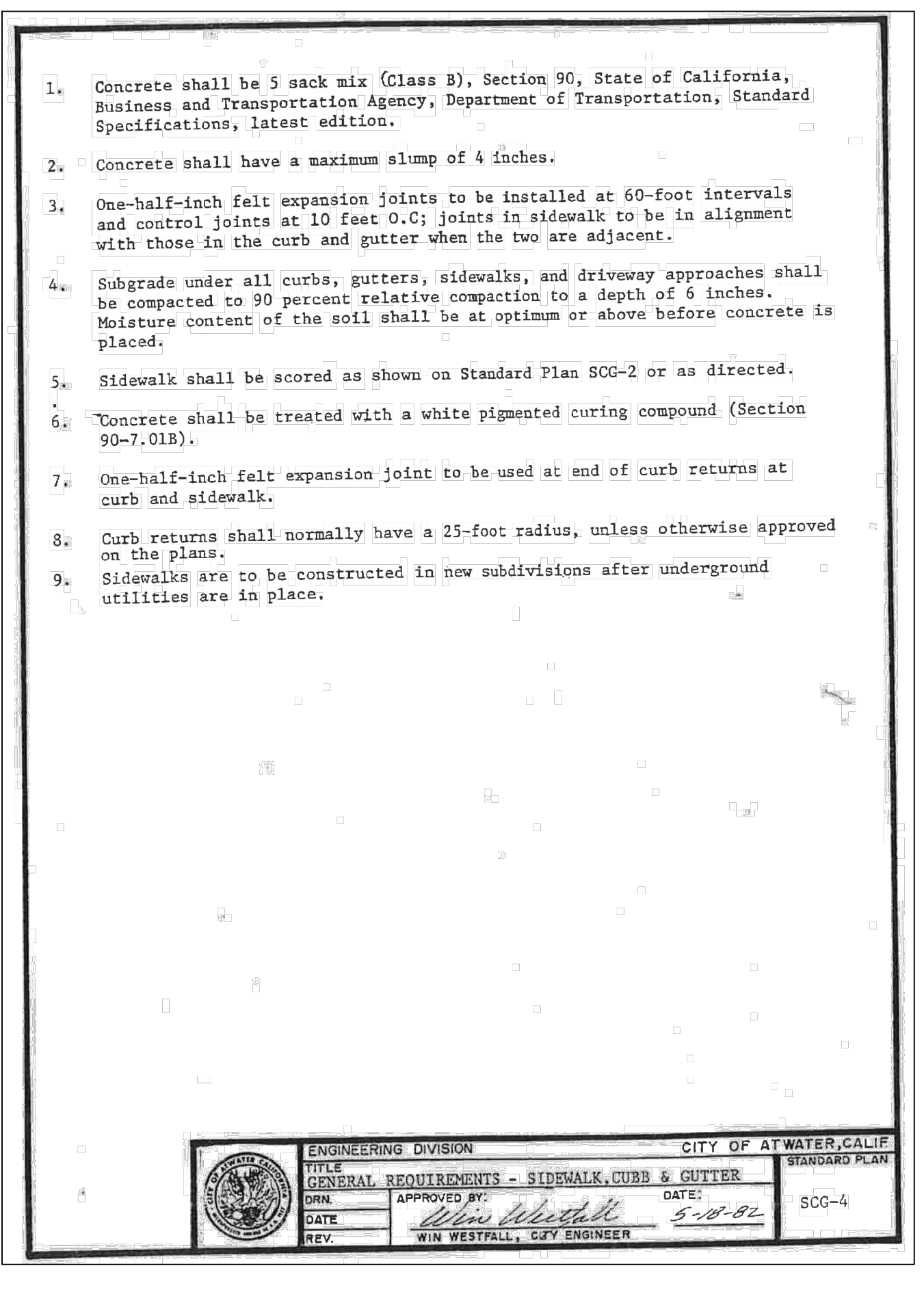
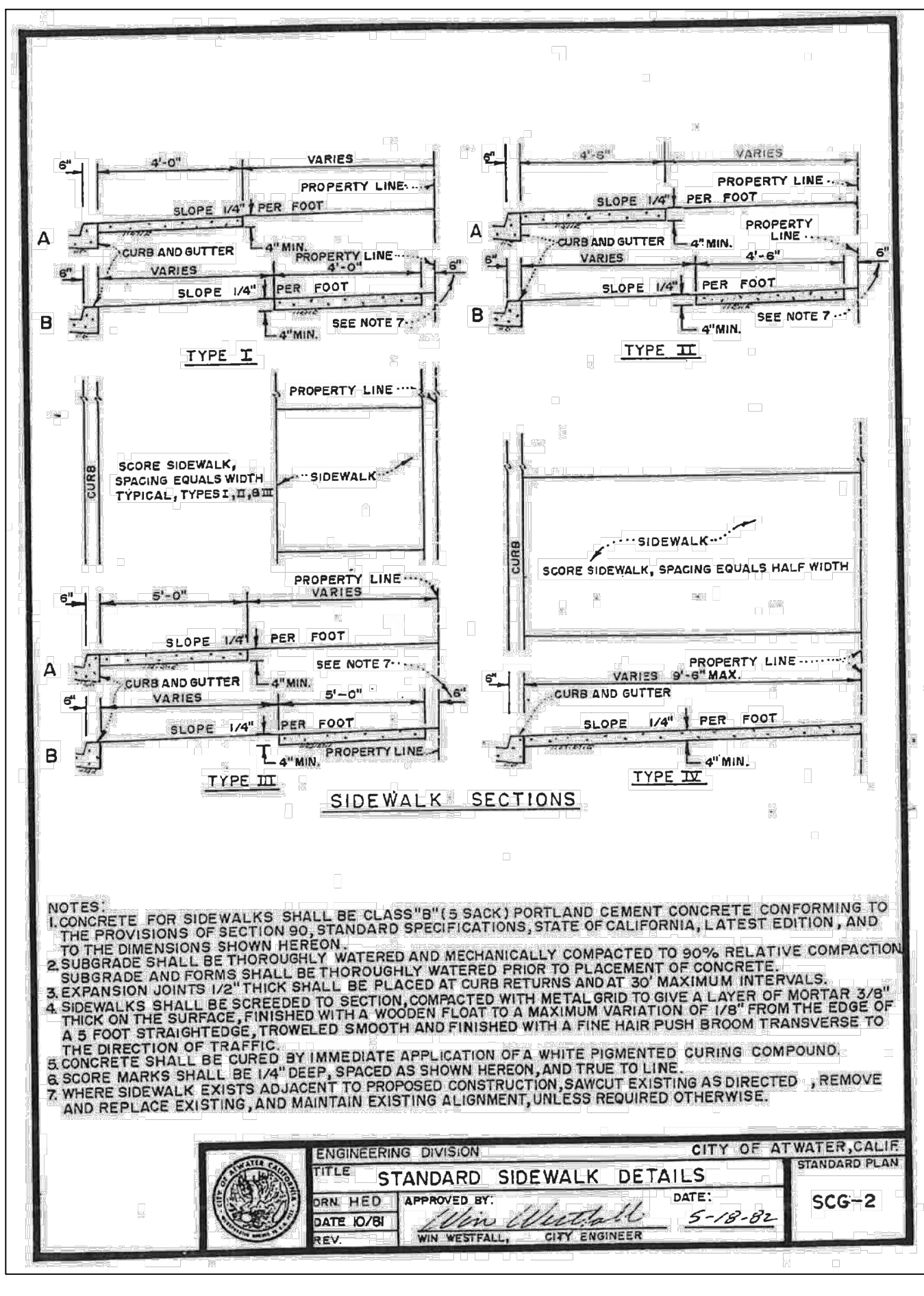
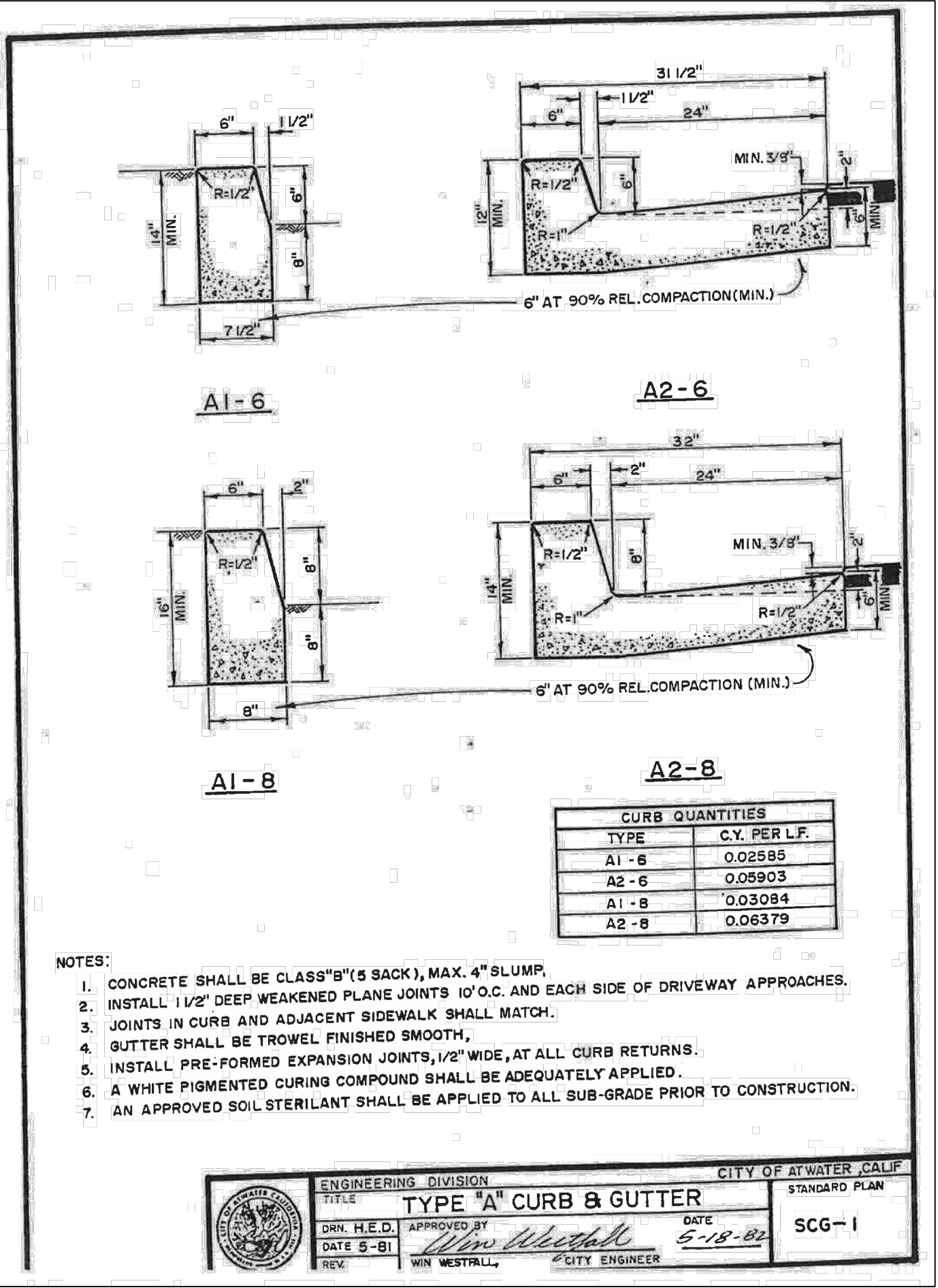
Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 41_STRP

JVP	RFC	IY	03.26.24
Dwn.	Chkd.	Dsgn.	MM.DD.YY

Sheet No.



NOTE: STANDARD DETAILS ARE INCLUDED HEREIN AS A CONVENIENCE TO CONTRACTOR. ONLY. STANDARD DETAILS CALLED FOR IN THE PLANS MAY NOT BE INCLUDED HEREIN. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY AGENCY STANDARD DETAILS AND SPECIFICATIONS.



No.	MM/YY	Description	By	App'd.

Client/Project: CITY OF ATWATER, FRUITLAND AVENUE RECONSTRUCTION PROJECT PHASE III, BID CALL NUMBER: 725-24, CITY PROJECT NUMBER: 16-23, ATWATER, CALIFORNIA

Title: STANDARD DETAILS

Engineer's Seal: REGISTERED PROFESSIONAL ENGINEER IN CIVIL, ROBERT FRANCIS CHRISTENSEN, STATE OF CALIFORNIA, EXP. 06-30-24

Engineer's Signature: Robert Christensen

Signature Date: 04.15.2024

811 Know what's below. Call before you dig.

Project Engineer: ROBERT CHRISTENSEN

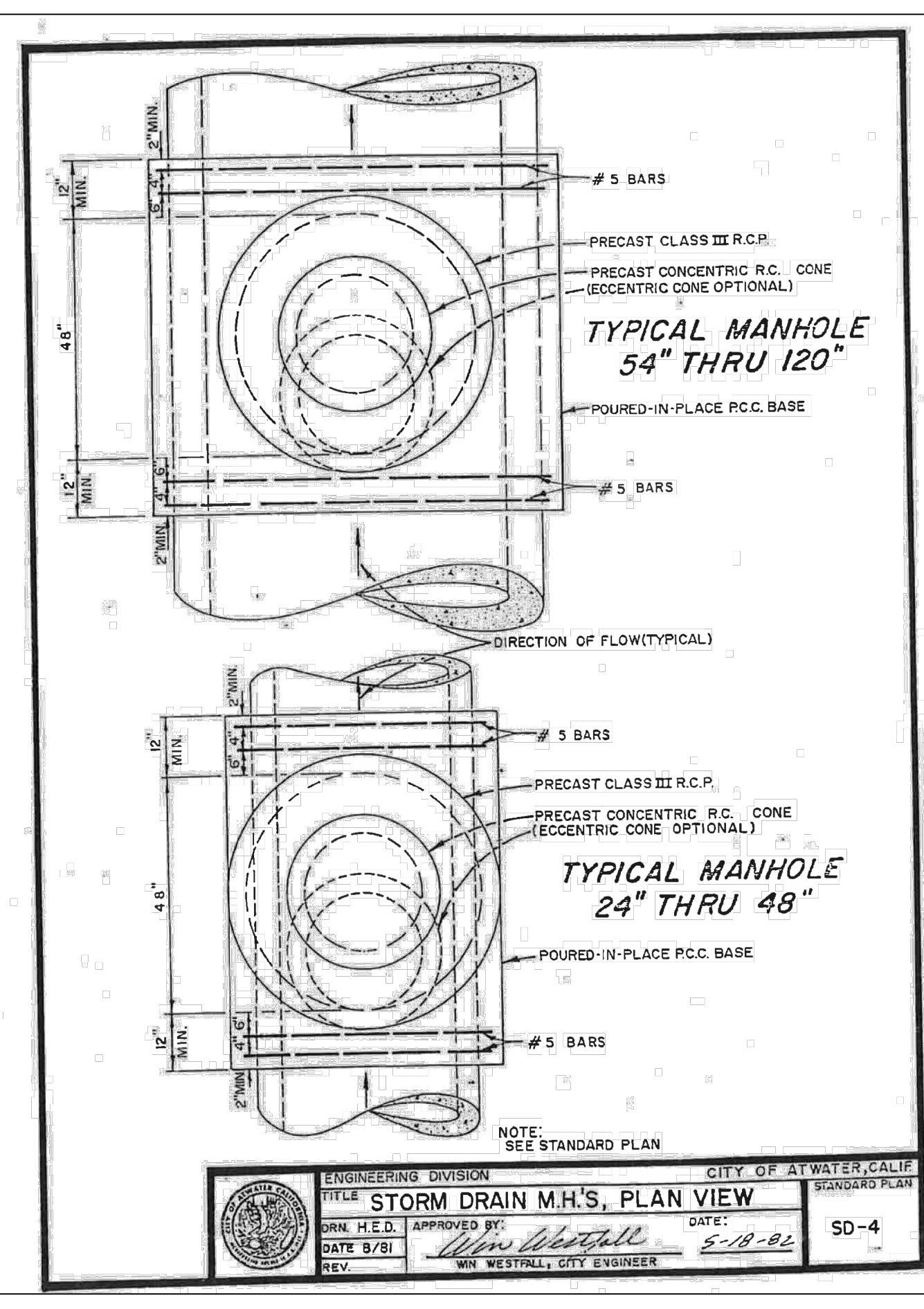
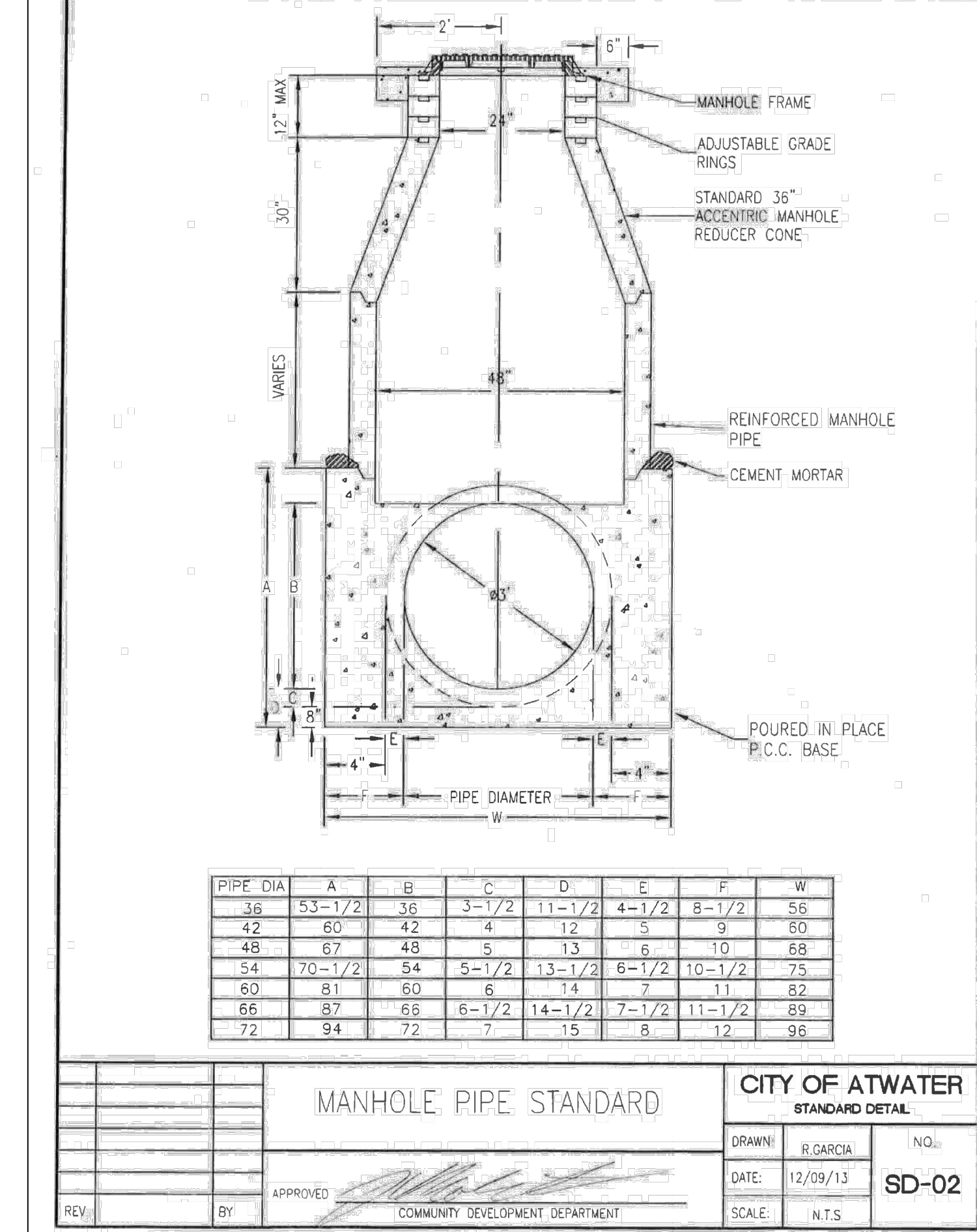
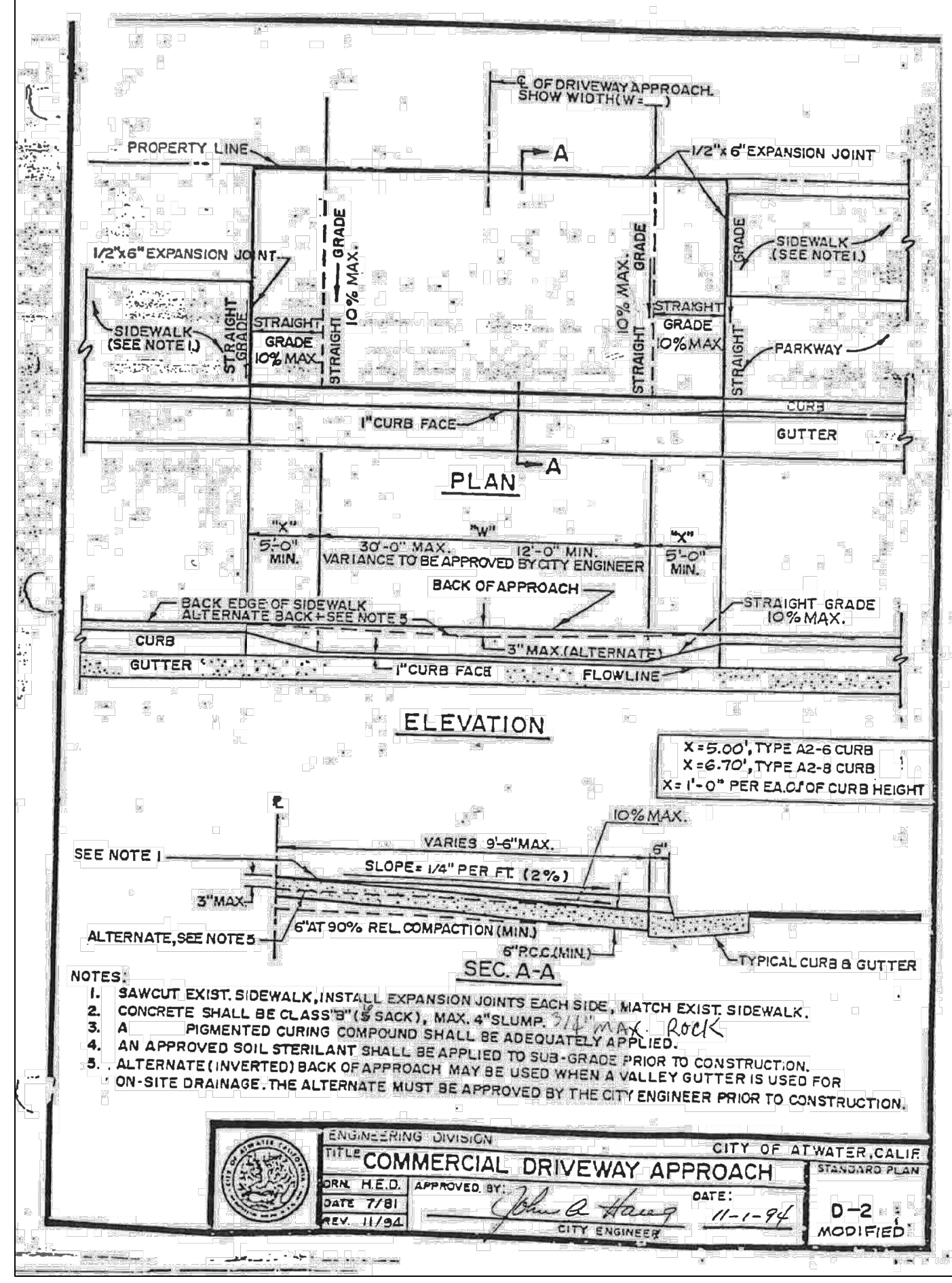
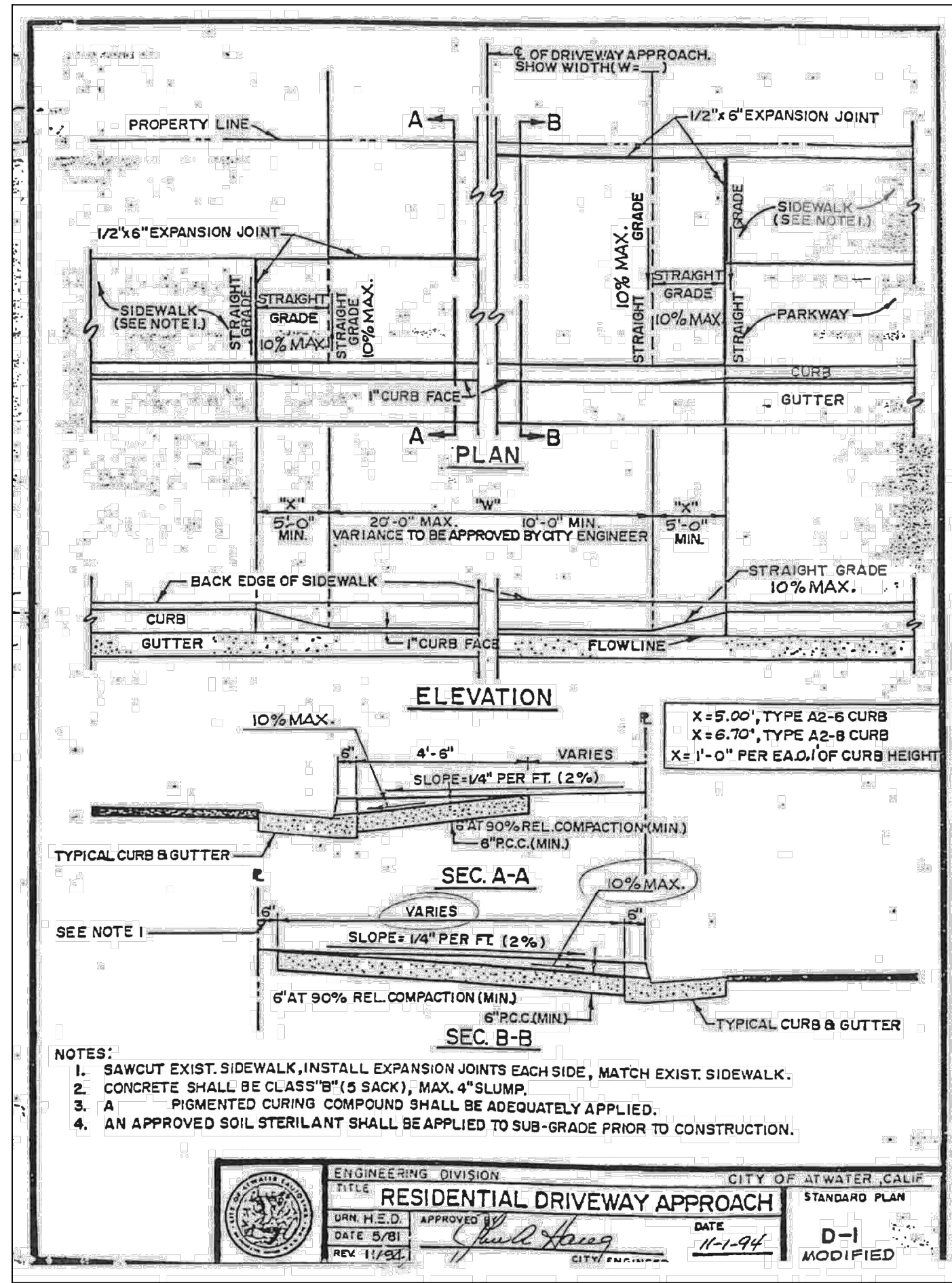
Project Number: 1093-0103

File Name: 42_DET

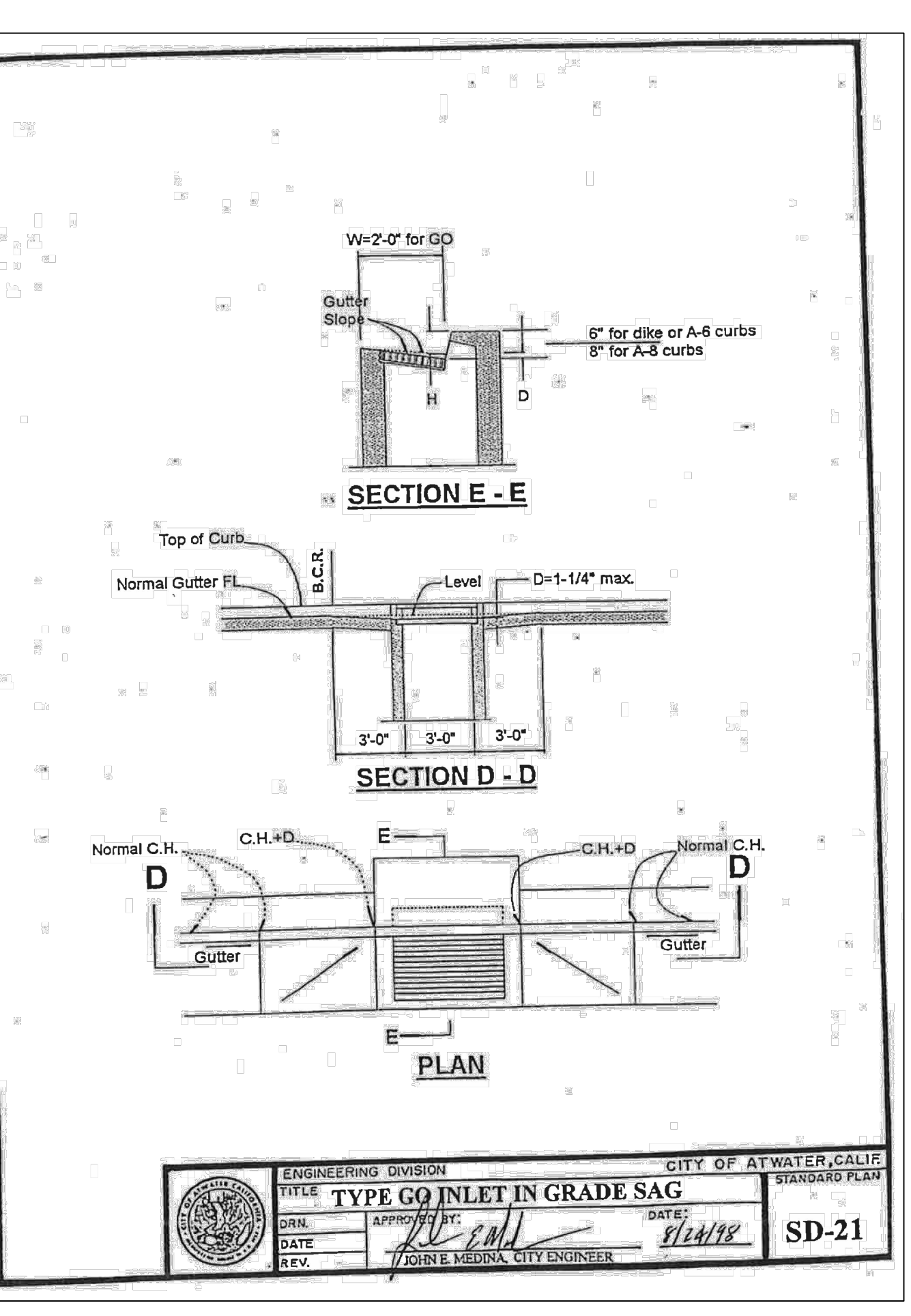
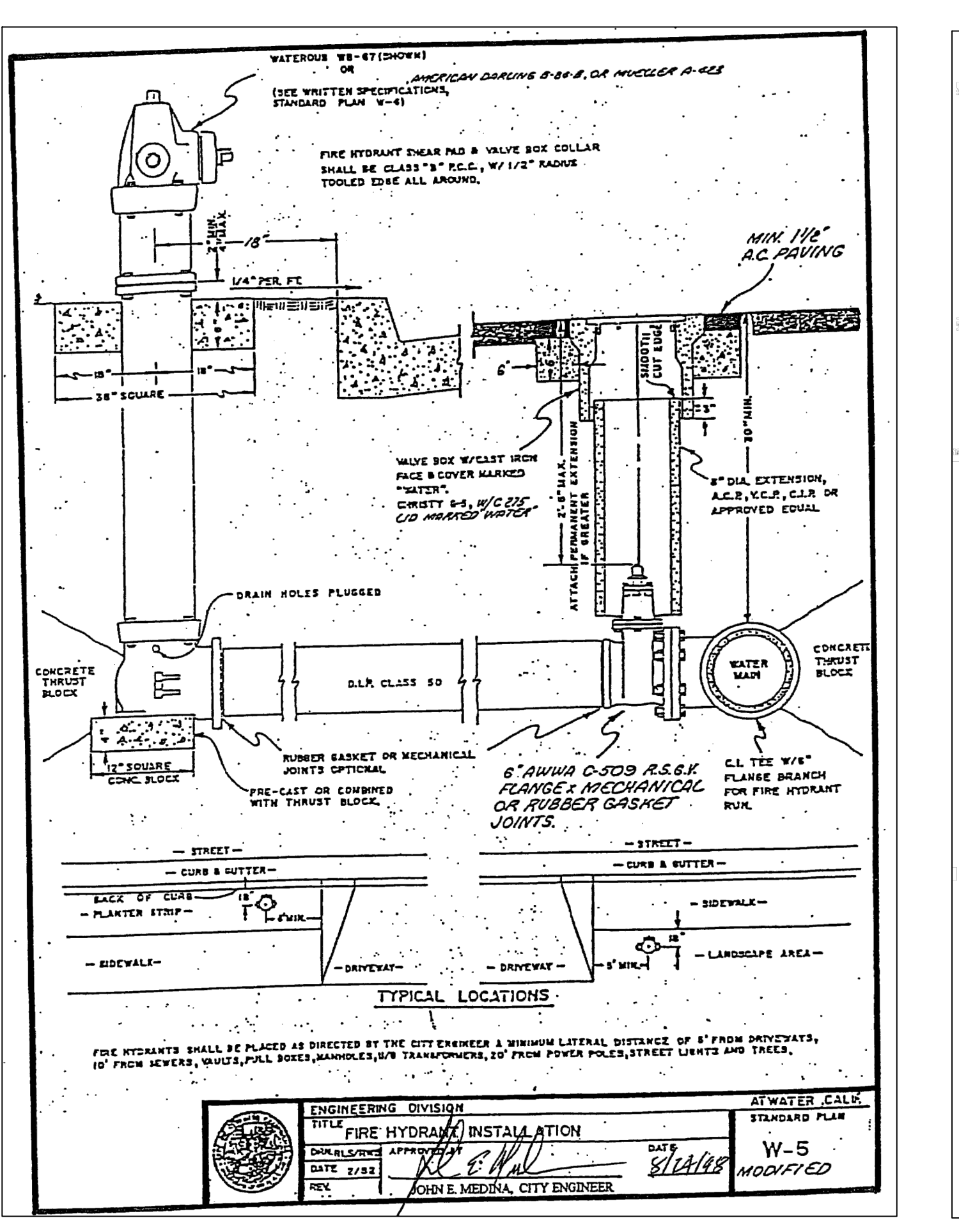
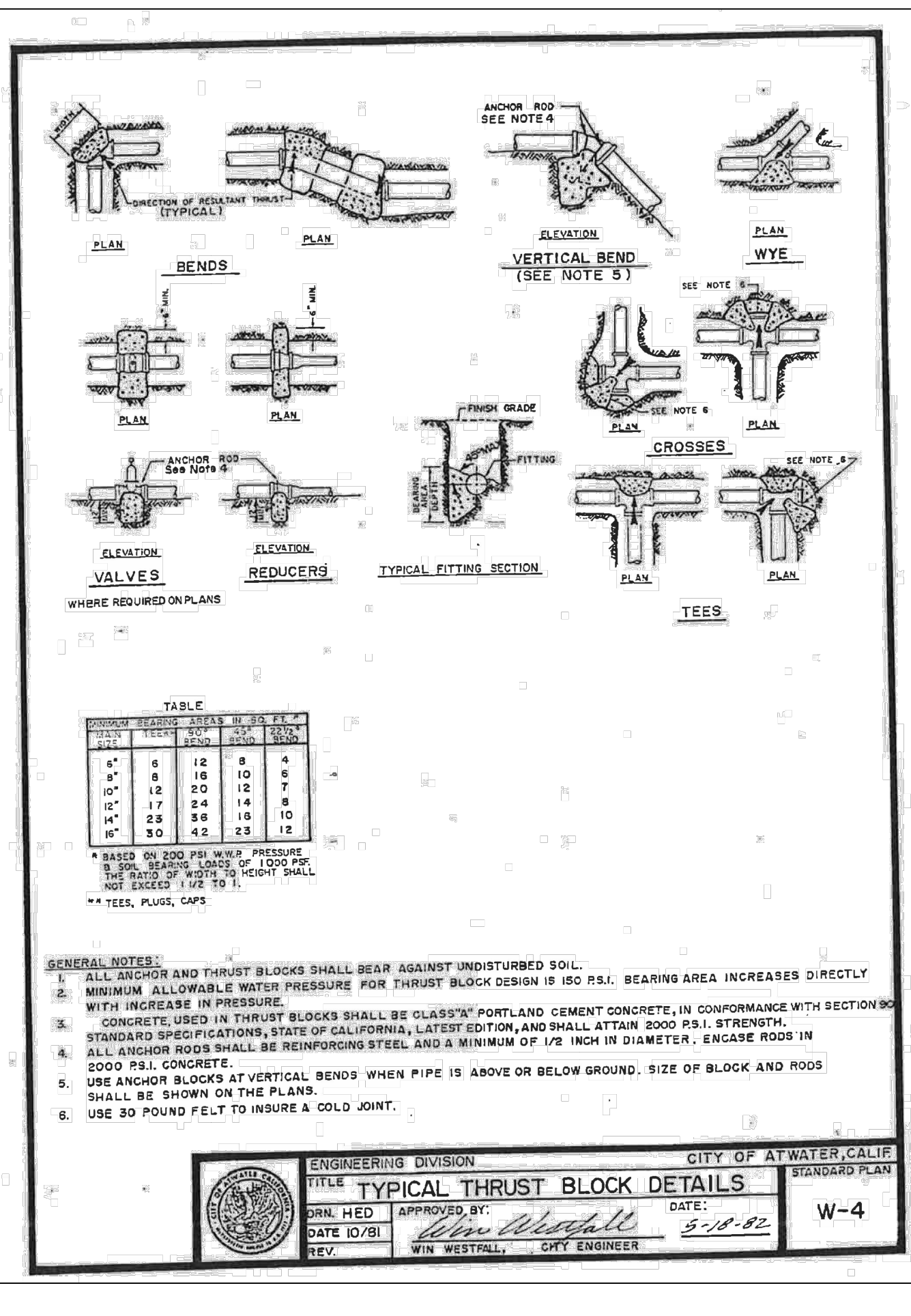
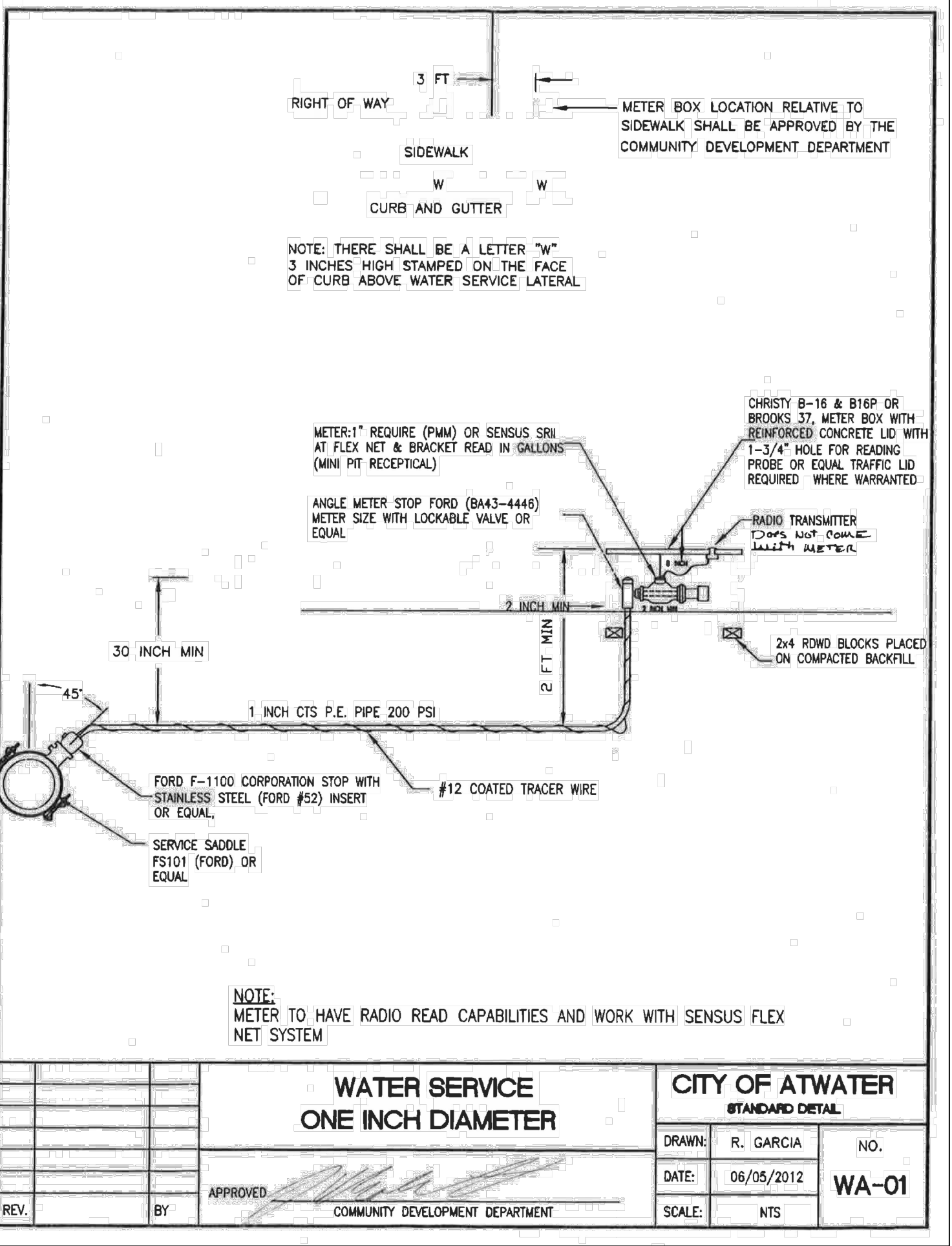
D/W: R/C Y 03.26.24

Dwn: Chkd: Dsgn: MM.DD.YY

Sheet No. 42 of 83 sheets



NOTE: STANDARD DETAILS ARE INCLUDED HEREIN AS A CONVENIENCE TO CONTRACTOR, ONLY. STANDARD DETAILS CALLED FOR IN THE PLANS MAY NOT BE INCLUDED HEREIN. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY AGENCY STANDARD DETAILS AND SPECIFICATIONS.

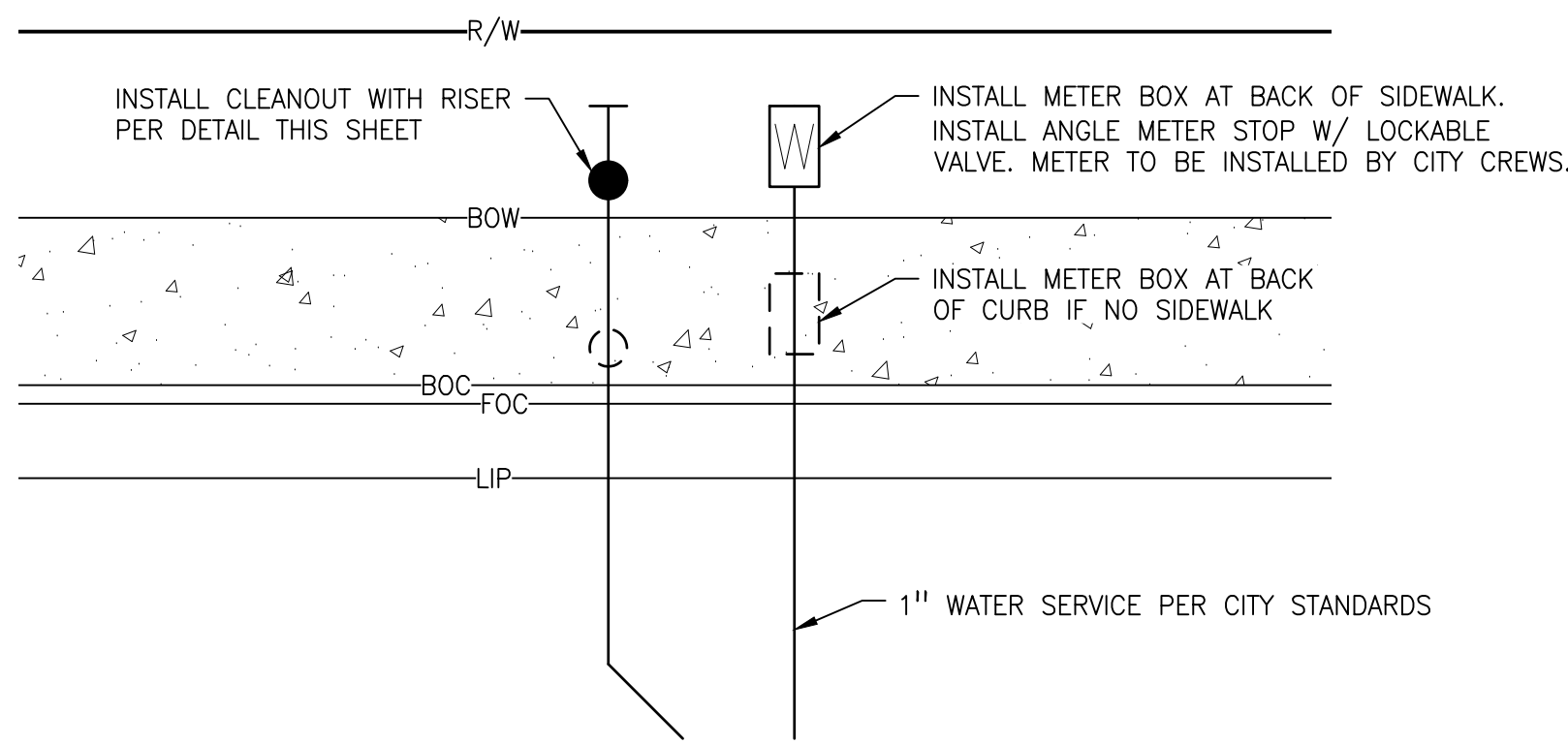


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Modesto, CA 95354
Tel.: 209.588.4477
Fax: 209.588.4478

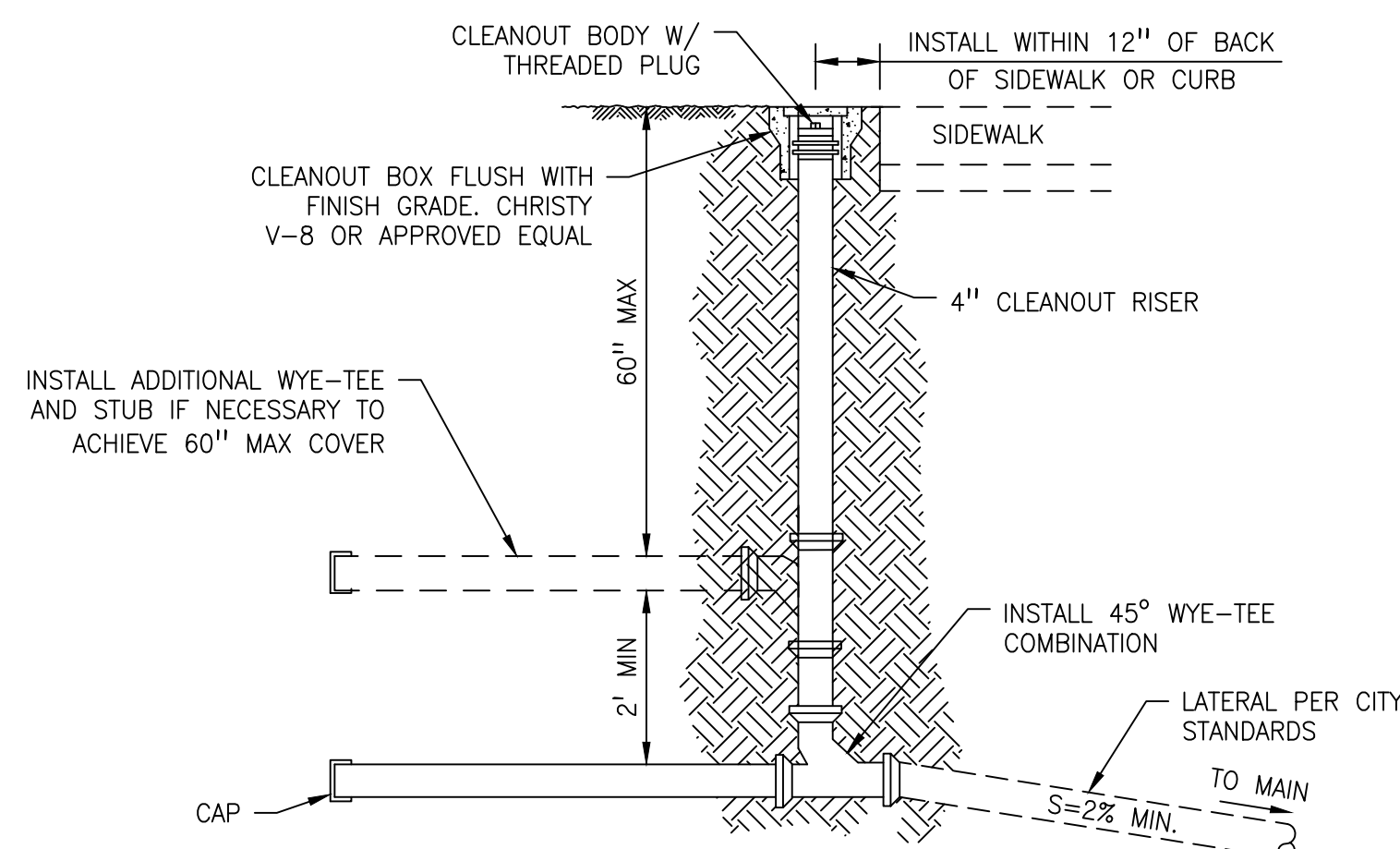
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No.	MM/YY	Description	By	Appd.

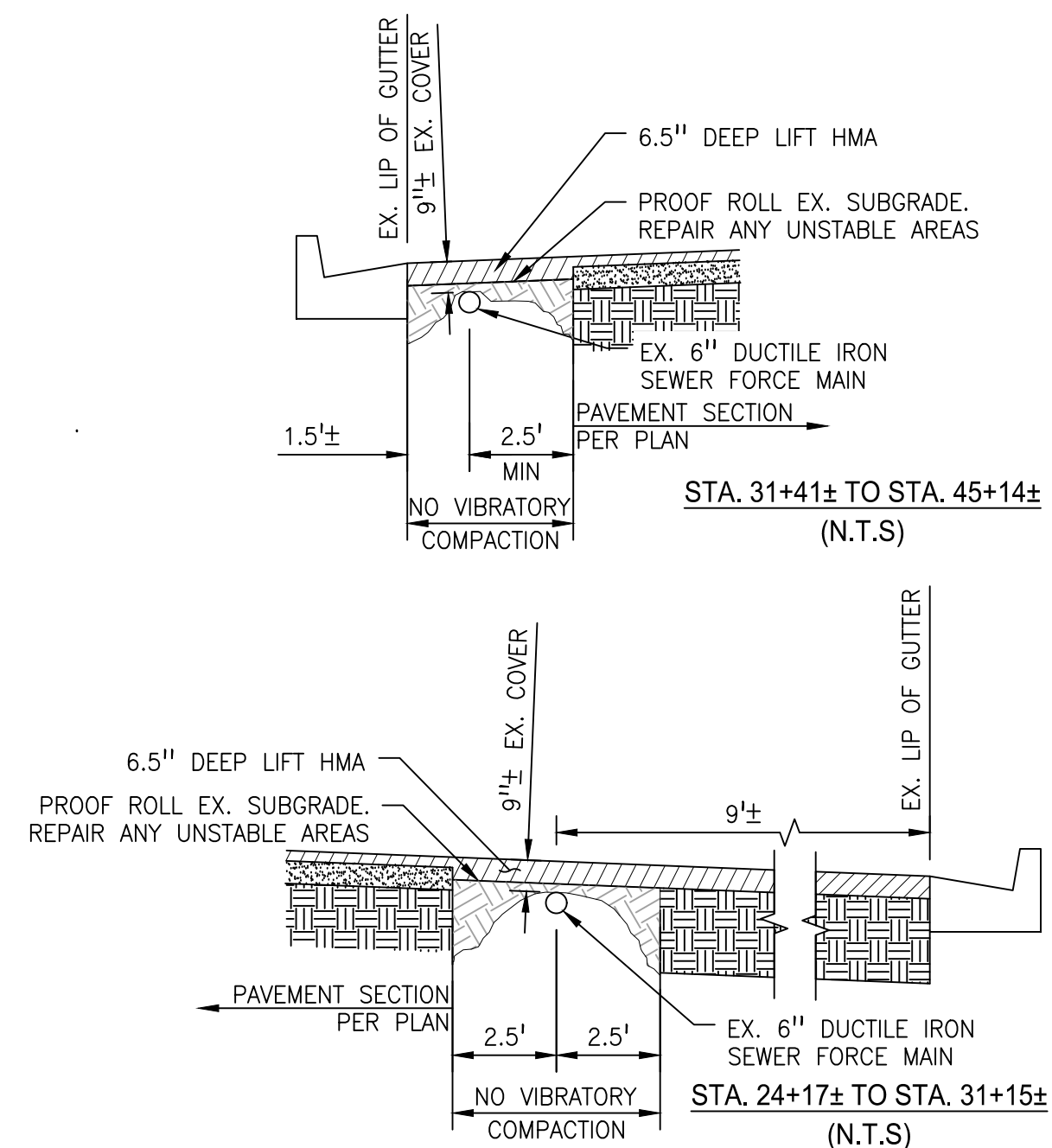
Client/Project: CITY OF ATWATER, FRUITLAND AVENUE RECONSTRUCTION PROJECT PHASE III
Engineer's Seal: REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF CALIFORNIA, ROBERT FRANCIS CHRISTENSEN, CIVIL, EXP. 06-30-24
Project Number: 1093-0103
File Name: 43_DET
JVP: RFC
Dwn: Chkd: Dgn: MM-DD-YY
Sheet No. 43 of 83 sheets



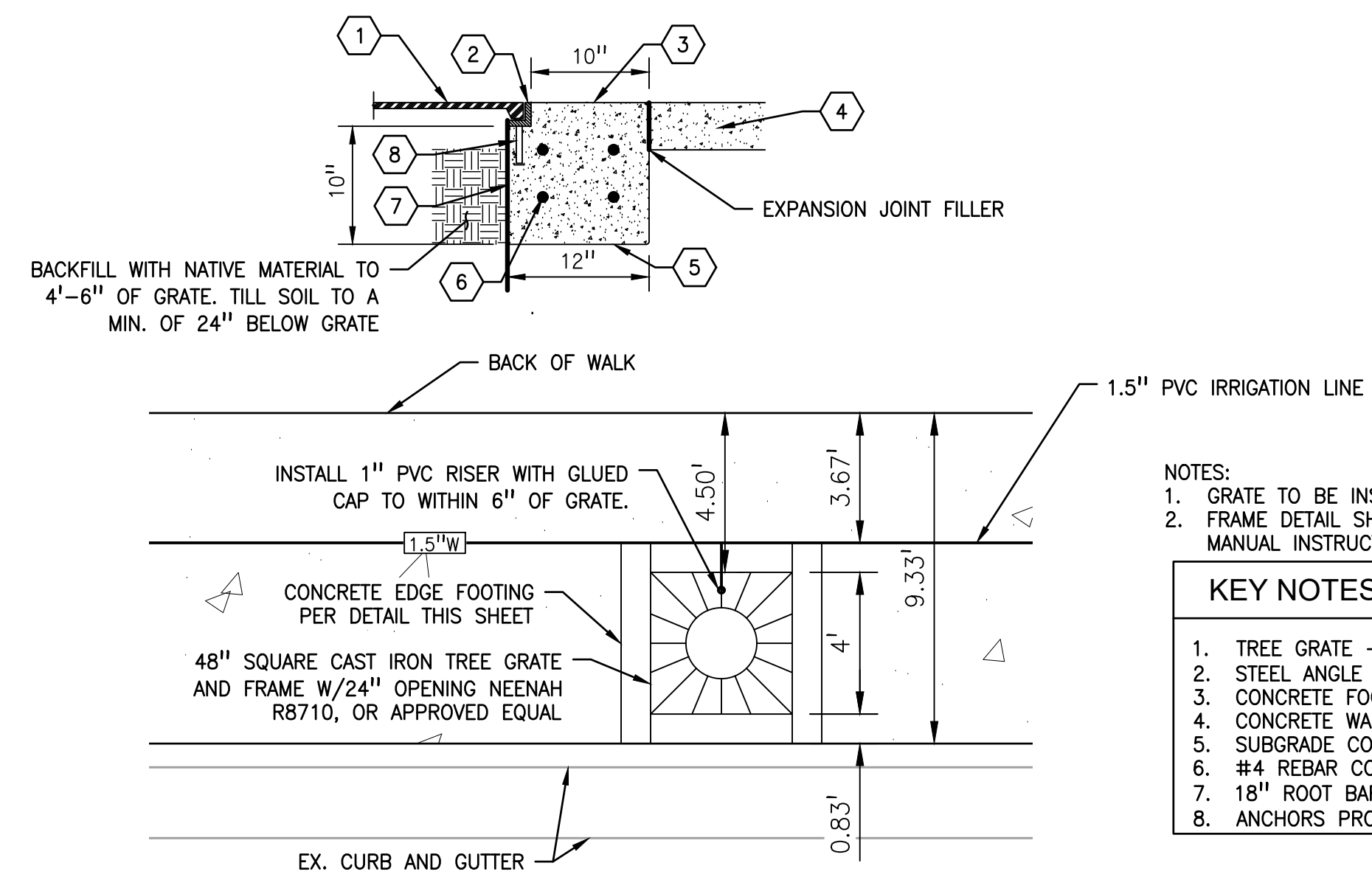
TYPICAL SEWER AND WATER SERVICE DETAIL
NOT TO SCALE



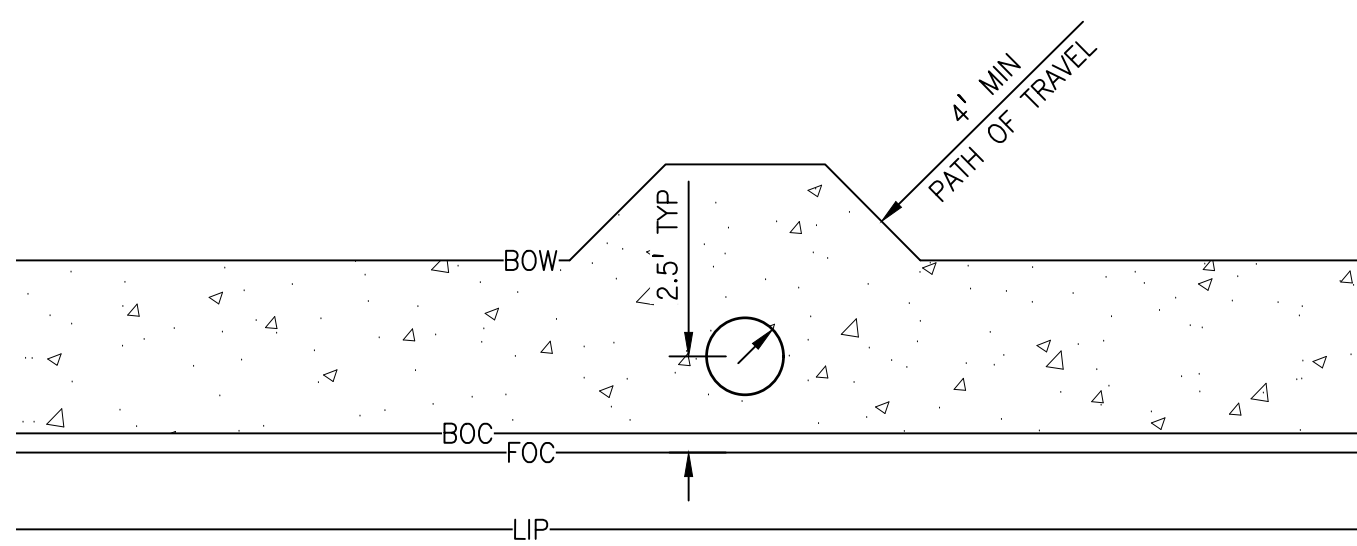
6 SEWER CLEANOUT DETAIL
N.T.S. RE: 24-32



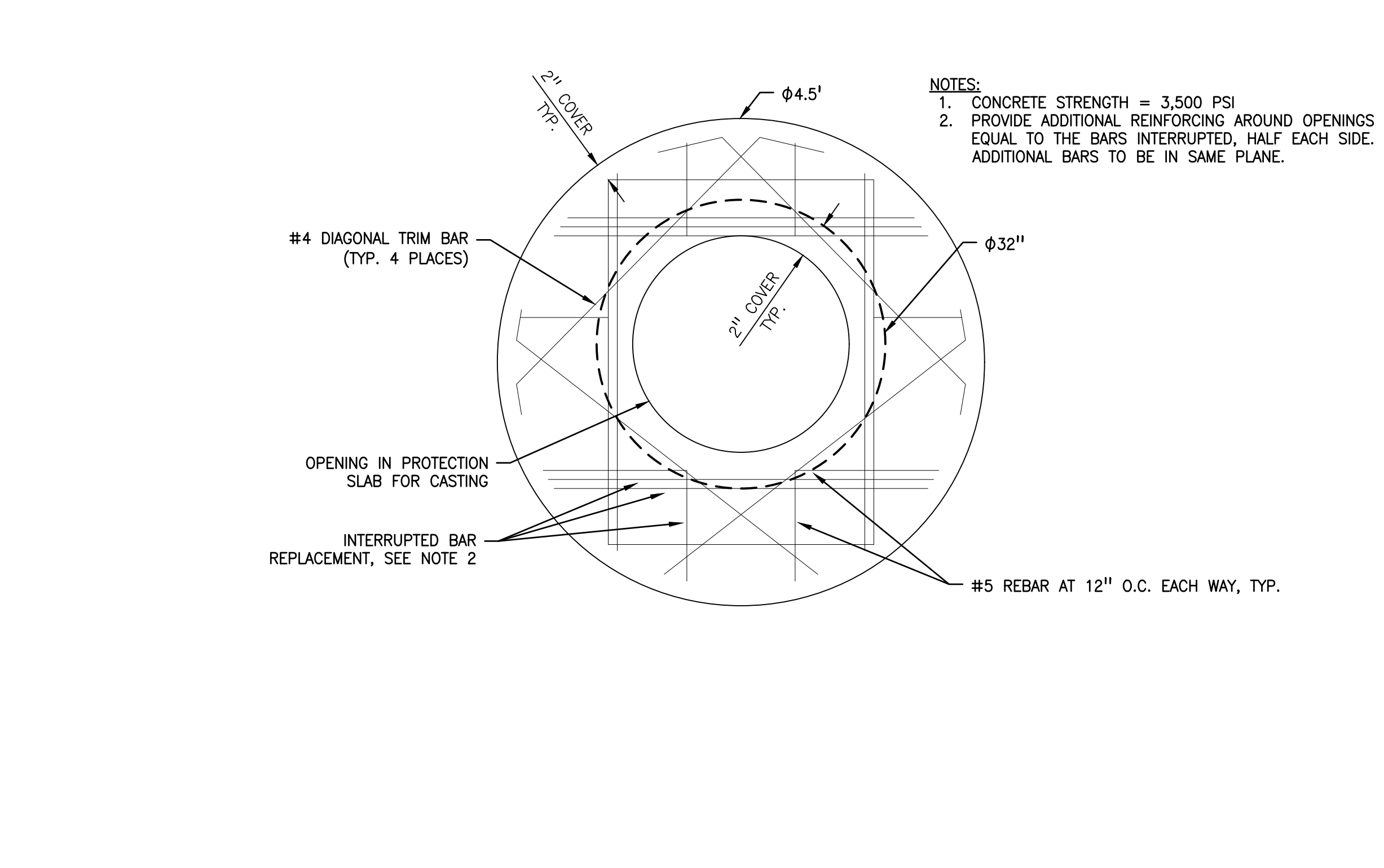
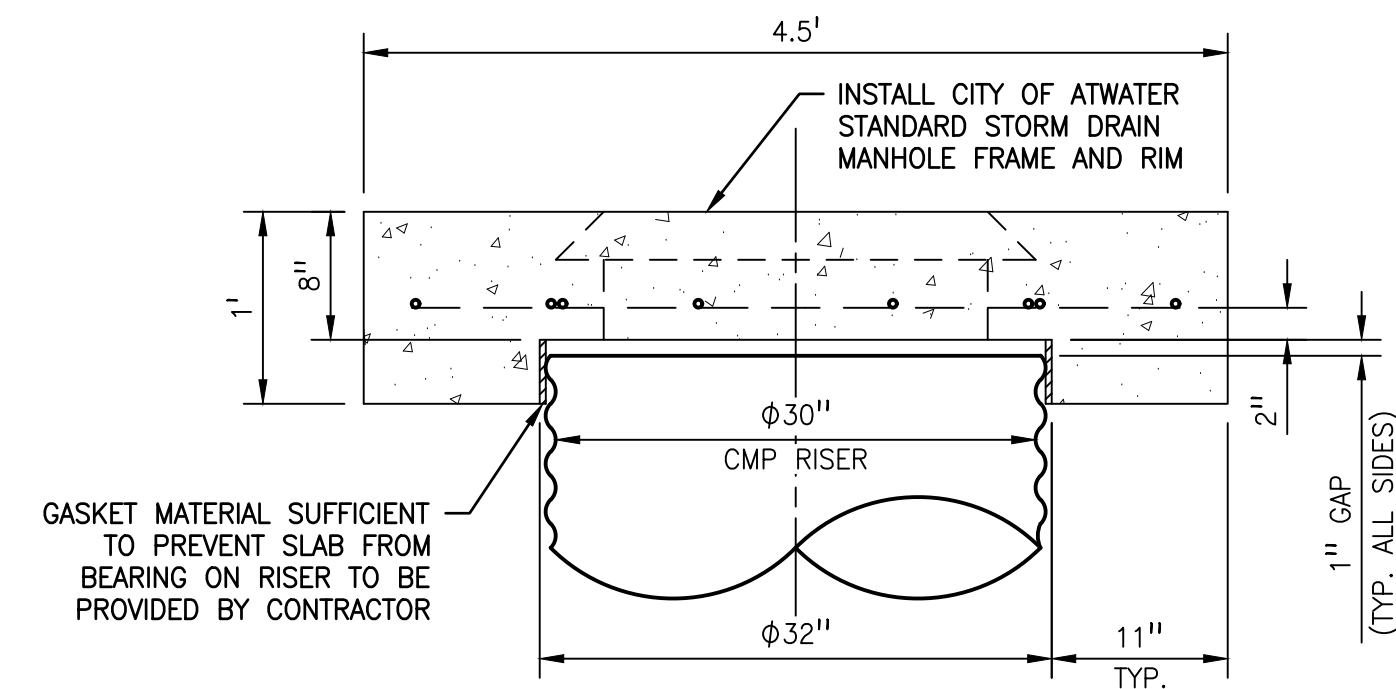
7 SHALLOW SEWER FORCE MAIN PAVING DETAIL
N.T.S. RE: 18-22



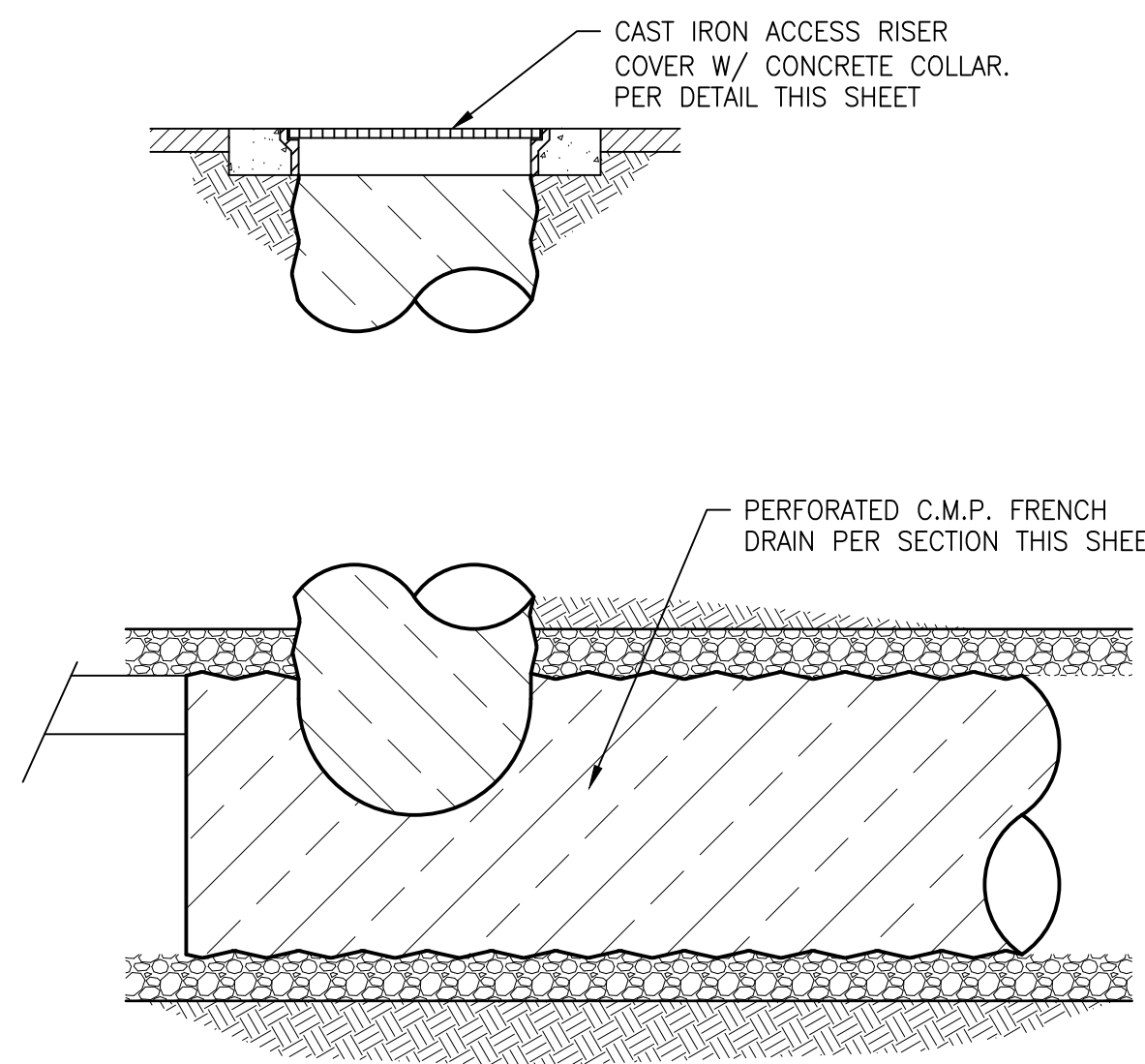
8 SQUARE TREE GRATE DETAIL
N.T.S. RE: 20-21



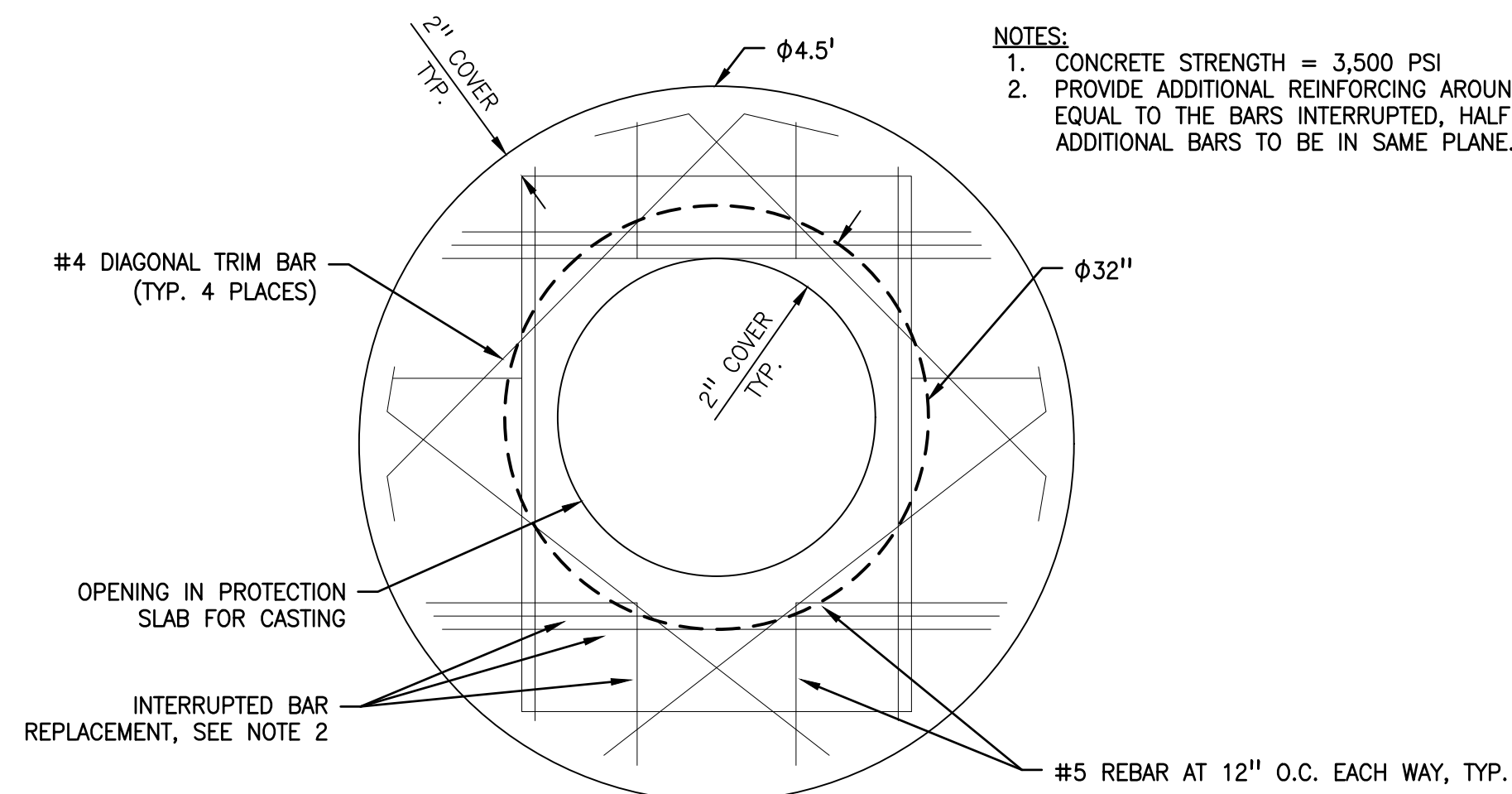
9 TYPICAL UTILITY POLE SIDEWALK ADJUSTMENT
N.T.S. RE: 16-32



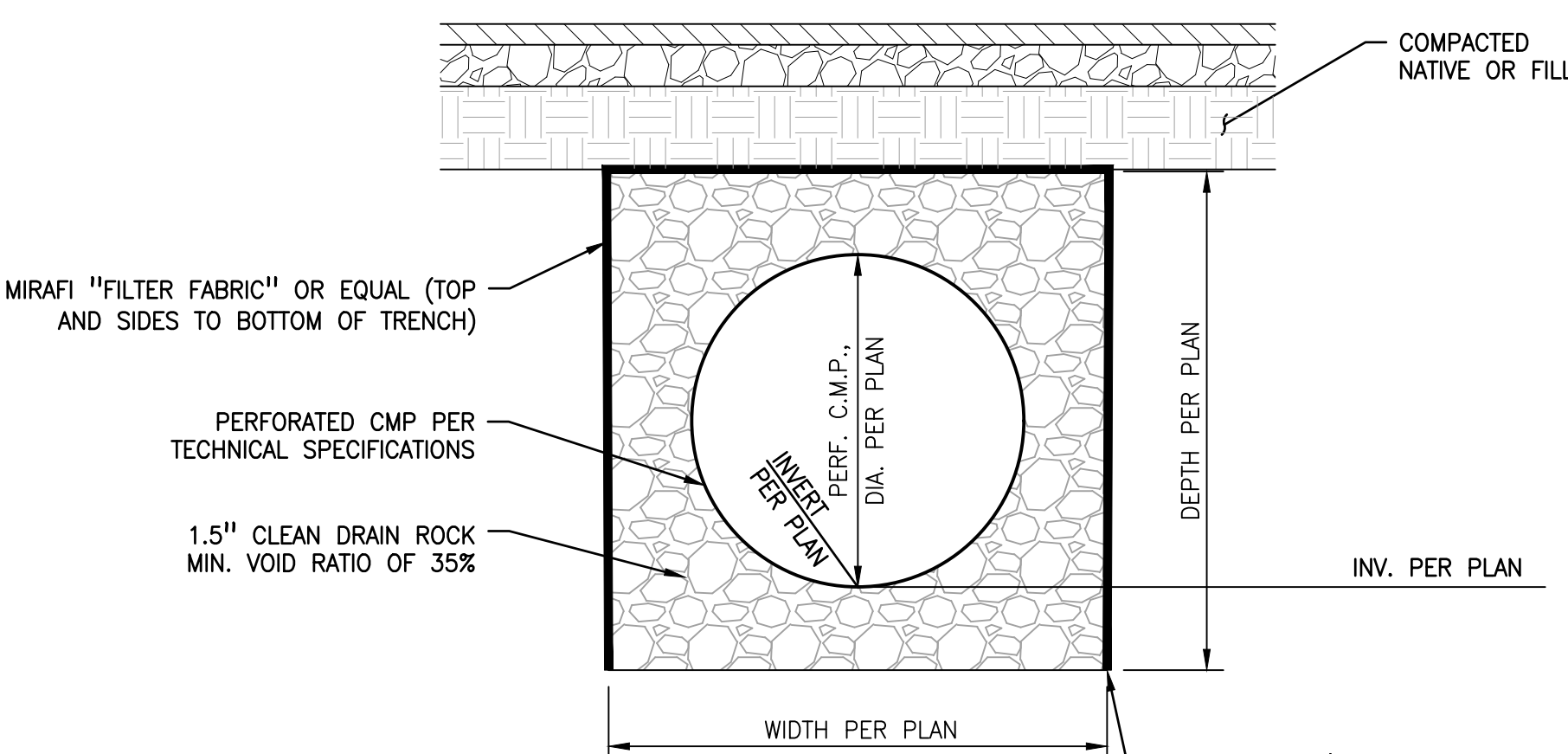
TYPICAL FRENCH DRAIN SECTION
(N.T.S)



TYPICAL FRENCH DRAIN ELEVATION
(N.T.S)



11 CMP RETENTION SYSTEM ACCESS RISER DETAIL
N.T.S. RE: 17, 19, 31



10 TYPICAL FRENCH DRAIN DETAIL
N.T.S. RE: 17, 19, 31

- NOTES:
1. GRATE TO BE INSTALLED FLUSH WITH ADJACENT CONCRETE.
2. FRAME DETAIL SHOWN FOR REFERENCE ONLY. INSTALL PER MANUAL INSTRUCTIONS.

KEY NOTES (#)

1. TREE GRATE - NEENAH FOUNDRY R8710, 48" SQ.
2. STEEL ANGLE FRAME BY MANUFACTURER
3. CONCRETE FOOTING FOR FRAME
4. CONCRETE WALK PER CITY STDS
5. SUBGRADE COMPACTED TO 95% RELATIVE DENSITY
6. #4 REBAR CONTINUOUS
7. 18" ROOT BARRIER
8. ANCHORS PROVIDED BY FRAME MANUFACTURER



No.	MM.YY	By	Appd.	Description

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

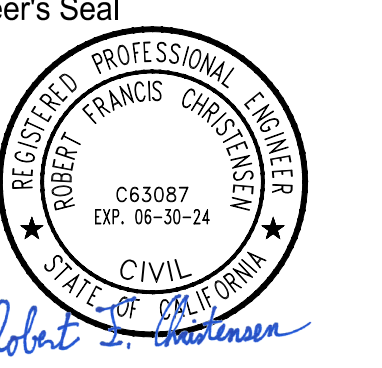
Engineer's Seal
REGISTERED PROFESSIONAL ENGINEER
ROBERT FRANCIS CHRISTENSEN
CIVIL
STATE OF CALIFORNIA
EXP. 06-30-24
Signature Date: 04.15.2024


811
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Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 45_DET
JVP RFC IY 03.26.24
Dwn Chkd. Dgn. MM-DD-YY
Sheet No.

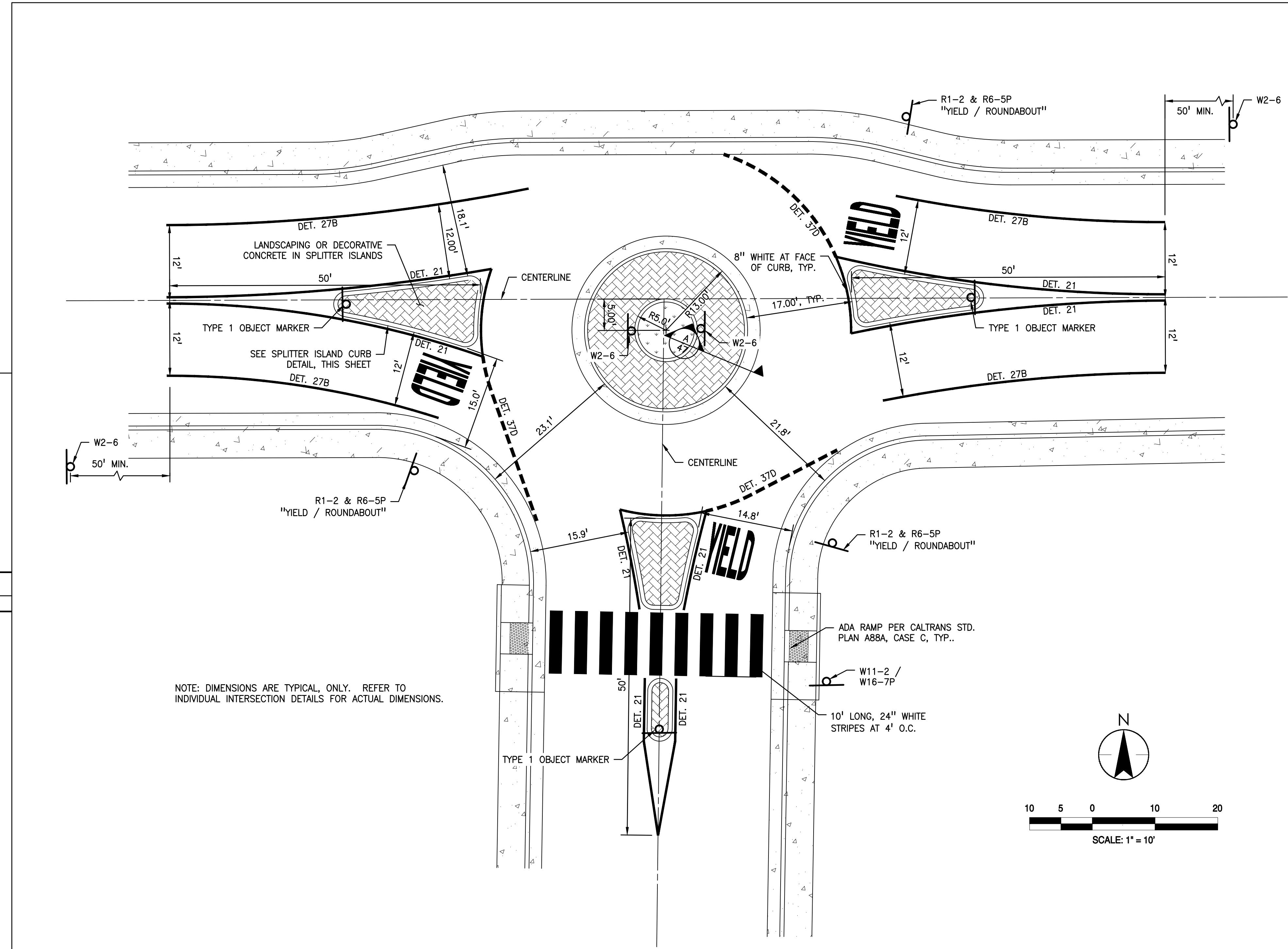
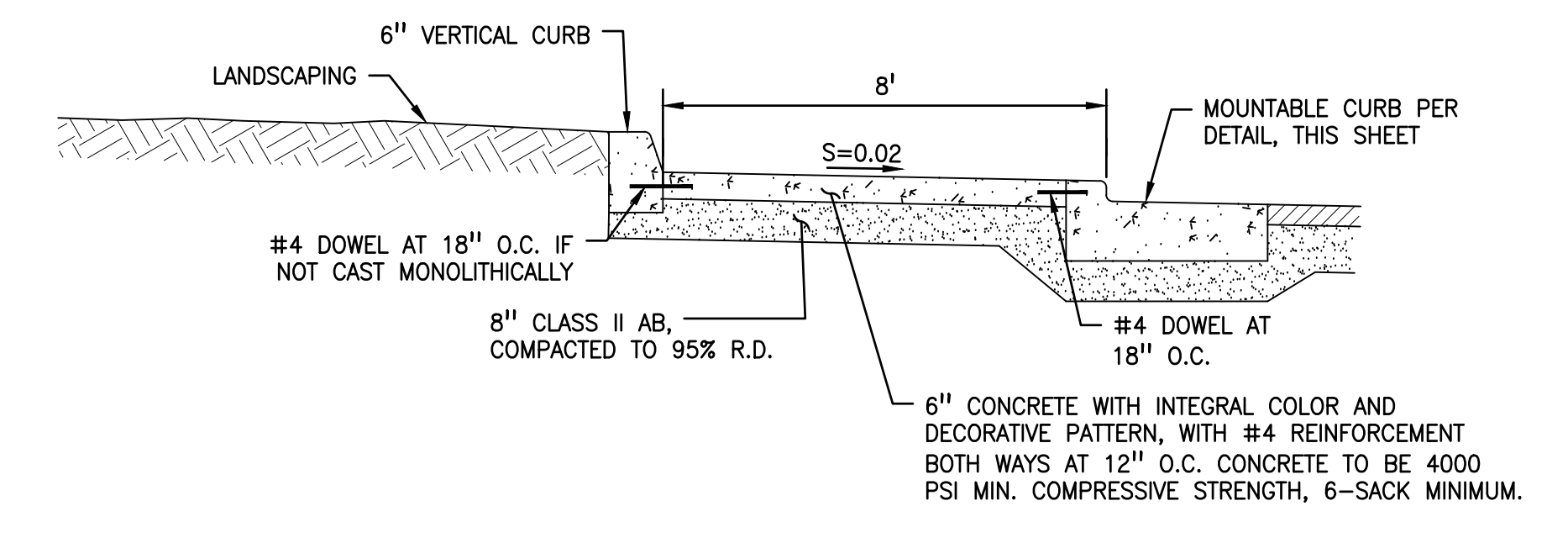
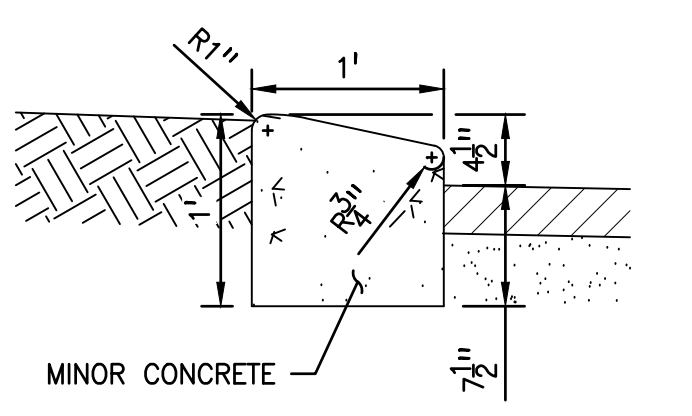
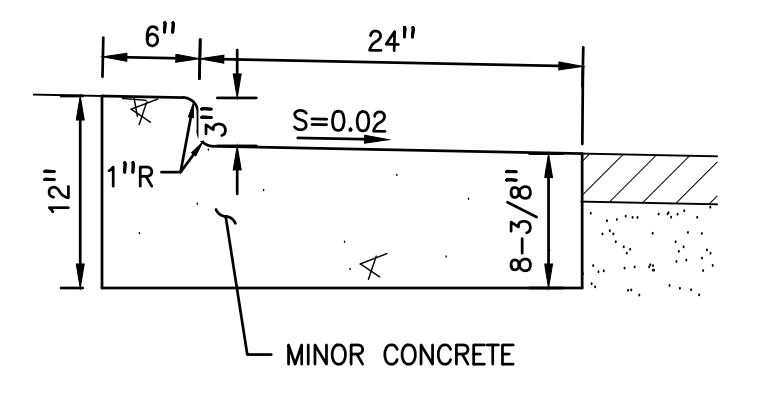
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ORIGINAL SHEET - ARCH D

No.	MM.YY	Description	By	Appd.

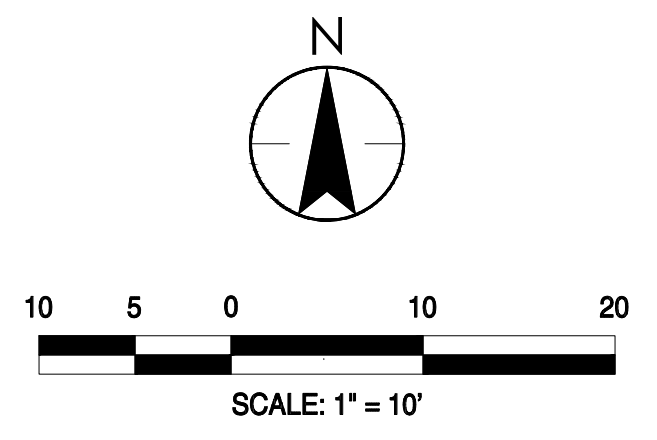
Client/Project	Title
CITY OF ATWATER FRUITLAND AVENUE RECONSTRUCTION PROJECT PHASE III BID CALL NUMBER: 725-24 CITY PROJECT NUMBER: 16-2-3 ATWATER, CALIFORNIA	TYPICAL TRAFFIC CIRCLE DETAILS

Engineer's Seal

 Robert S. Anderson
 Engineer's Signature:
 Signature Date: 04.15.2024

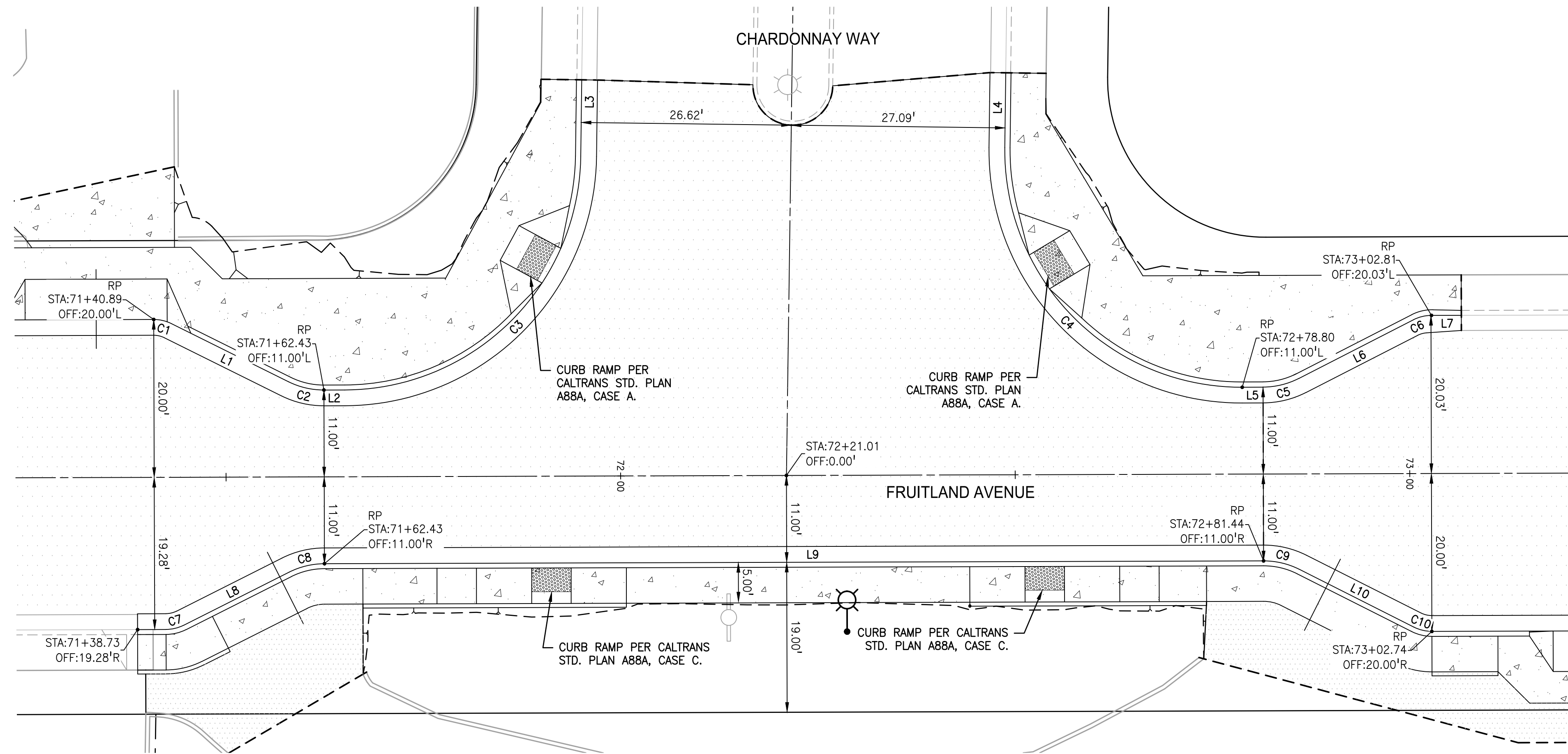

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 Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 47_DET
 JVP RFC IY 03.26.24
 Dwn Chkd Dsgn MM-DD-YY
 Sheet No.



NOTE: DIMENSIONS ARE TYPICAL, ONLY. REFER TO INDIVIDUAL INTERSECTION DETAILS FOR ACTUAL DIMENSIONS.

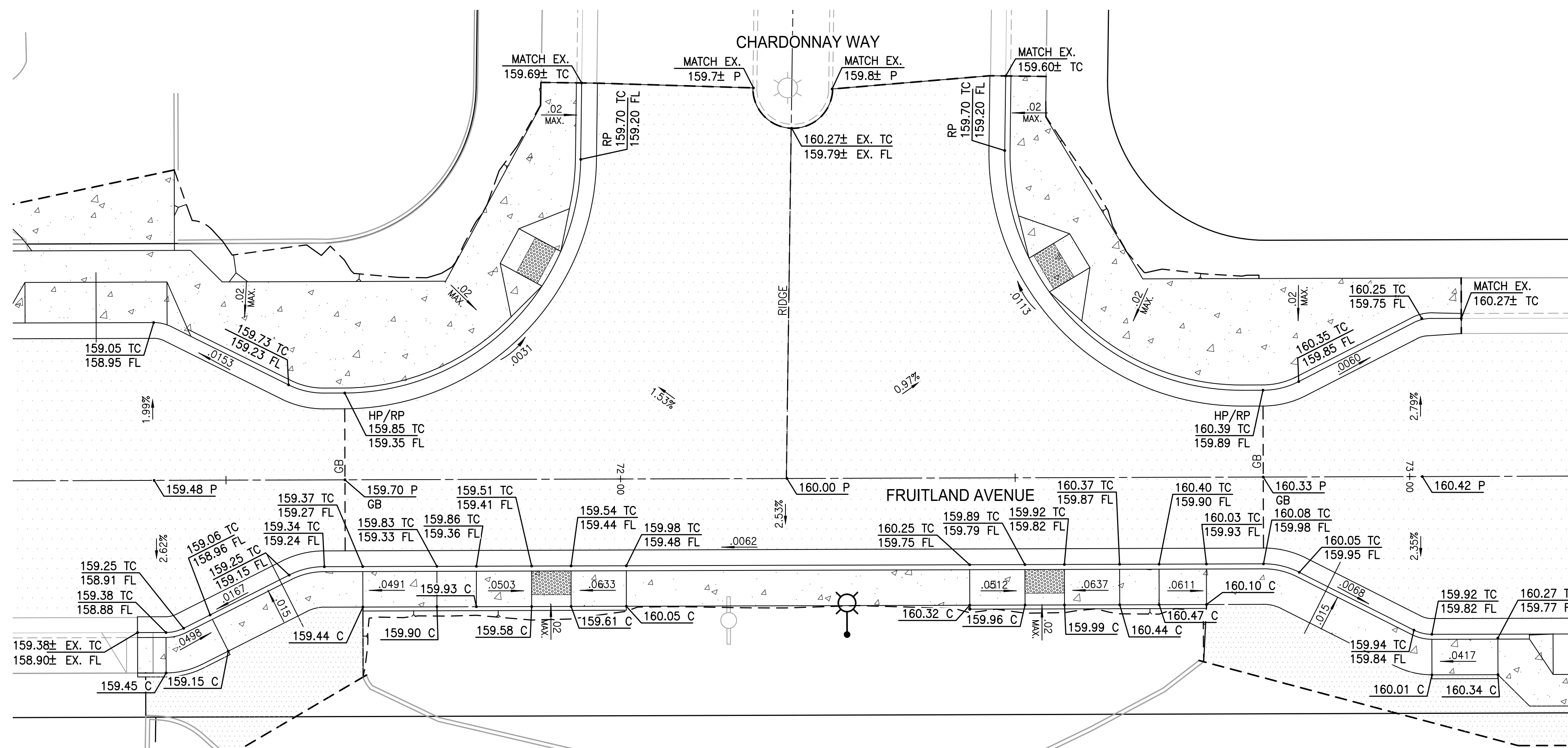


2 NTS	MOUNTABLE CURB RE:47	3 NTS	SPLITTER ISLAND CURB RE:47
A AS NOTED	TRAFFIC CIRCLE CROSS-SECTION RE:25, 28 & 29	1 AS NOTED	TYPICAL TRAFFIC CIRCLE LAYOUT RE:25, 28 & 29



CHARDONNAY WAY INTERSECTION LAYOUT DETAIL

SEGMENT TABLE			
LINE / CURVE #	LENGTH	DIRECTION / DELTA	RADIUS
C1	2.32'	N76° 53' 28"W	5.00'
C2	4.64'	S76° 53' 26"E	10.00'
C3	46.64'	N45° 17' 15"E	30.00'
C4	47.59'	S44° 43' 25"E	30.00'
C5	4.70'	N76° 21' 24"E	10.00'
C6	2.36'	S76° 23' 42"W	5.00'
C7	2.32'	N76° 32' 20"E	5.00'
C8	4.64'	S76° 32' 39"W	10.00'
C9	4.70'	N76° 42' 11"W	10.00'
C10	2.35'	S76° 42' 11"E	5.00'
L1	16.58'	N63° 36' 29"W	
L2	2.64'	S89° 49' 37"W	
L3	9.68'	S0° 44' 54"W	
L4	9.49'	S0° 43' 35"W	
L5	2.64'	S89° 49' 37"W	
L6	16.34'	N62° 53' 11"E	
L7	3.79'	N89° 54' 12"E	
L8	14.97'	S63° 15' 42"W	
L9	119.00'	S89° 49' 37"W	
L10	16.27'	S63° 13' 58"E	



CHARDONNAY WAY INTERSECTION GRADING DETAIL

430 10th Street
Modesto, CA 95354
Tel.: 209.588.4477
Fax: 209.588.4478

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No.	MM/YY	Description	By	Appd.

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

Title
INTERSECTION DETAILS

Engineer's Seal

Robert Christensen

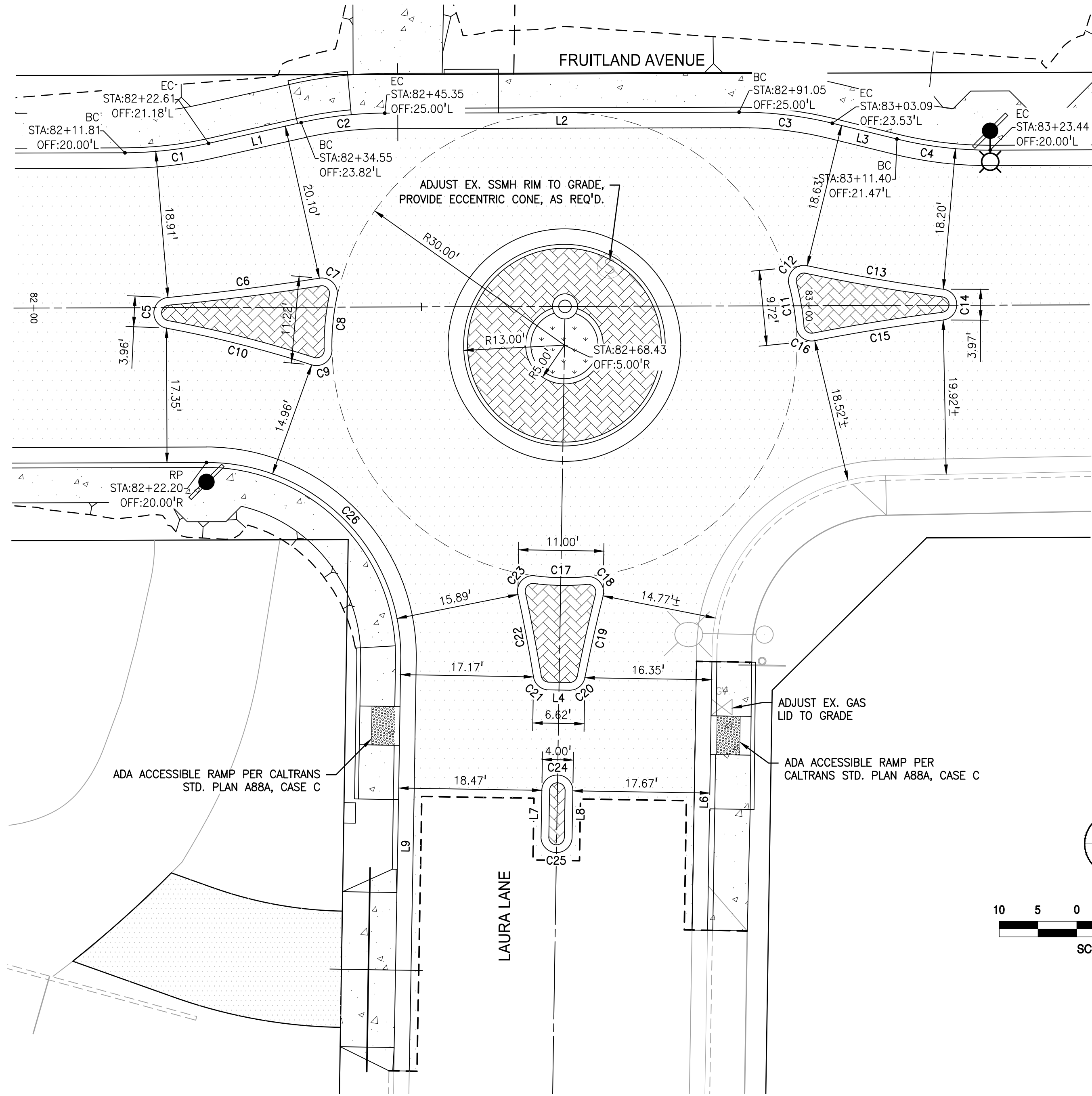
Engineer's Signature:
Signature Date: 04.15.2024

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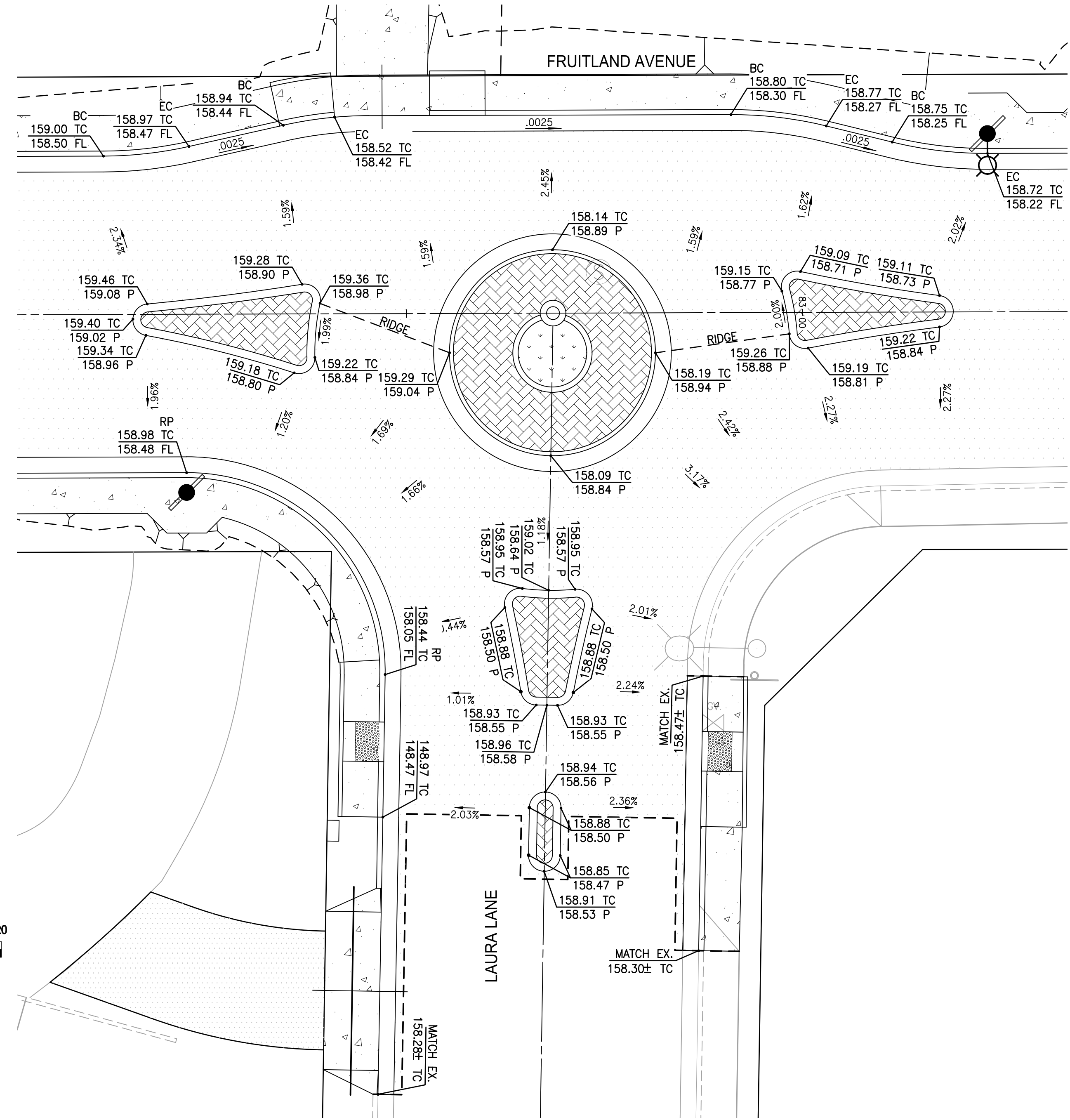
Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 49_DET
JVP RFC IY 03.26.24
Dwn Chkd. Dgmn. MM-DD-YY
Sheet No.

SEGMENT TABLE			
LINE / CURVE #	LENGTH	DIRECTION / DELTA	RADIUS
C1	10.88'	N83° 35' 32"E	50.00'
C2	10.88'	S83° 35' 32"W	50.00'
C3	12.15'	N83° 12' 41"W	50.00'
C4	12.15'	S83° 12' 41"E	50.00'
C5	5.73'	S2° 33' 04"W	2.00'
C6	19.70'	N82° 44' 30"E	310.00'
C7	3.88'	N43° 31' 40"W	2.00'
C8	6.89'	S5° 26' 41"W	30.00'
C9	3.80'	N53° 20' 43"E	2.00'
C10	19.33'	N75° 49' 03"W	152.00'
C11	5.48'	N9° 47' 39"W	30.00'
C12	4.09'	S43° 30' 21"W	2.00'
C13	17.82'	S80° 12' 02"E	228.00'
C14	5.77'	N0° 09' 58"E	2.00'
C15	16.80'	S80° 50' 48"W	250.00'
C16	3.37'	S52° 49' 11"E	2.00'
C17	6.67'	S89° 05' 43"E	30.00'
C18	3.82'	N40° 42' 39"W	2.00'
C19	10.82'	S12° 34' 10"W	210.00'
C20	2.79'	N50° 59' 56"E	2.00'

SEGMENT TABLE			
LINE / CURVE #	LENGTH	DIRECTION / DELTA	RADIUS
C21	2.79'	S49° 11' 22"E	2.00'
C22	10.82'	N10° 45' 36"W	210.00'
C23	3.82'	S42° 31' 13"W	2.00'
C24	6.28'	N89° 05' 08"W	2.00'
C25	6.28'	S89° 05' 08"E	2.00'
C26	39.84'	N44° 31' 25"W	25.00'
L1	12.24'	N77° 21' 27"E	
L2	45.70'	S89° 49' 37"W	
L3	8.57'	S76° 14' 59"E	
L4	2.69'	N89° 05' 43"W	
L6	34.67'	S0° 55' 54"W	
L7	6.00'	S0° 54' 52"W	
L8	6.00'	N0° 54' 52"E	
L9	53.00'	S0° 58' 42"W	



Laura Lane Intersection Layout Detail



Laura Lane Intersection Grading Detail



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Fax: 209.568.4478

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No.	MM.YY	Description	By	Appd.

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

Title
INTERSECTION DETAILS

Engineer's Seal
REGISTERED PROFESSIONAL ENGINEER
ROBERT FRANCIS CHRISTENSEN
CE3087
EXP. 06-30-24
CIVIL
STATE OF CALIFORNIA
Robert S. Anderson

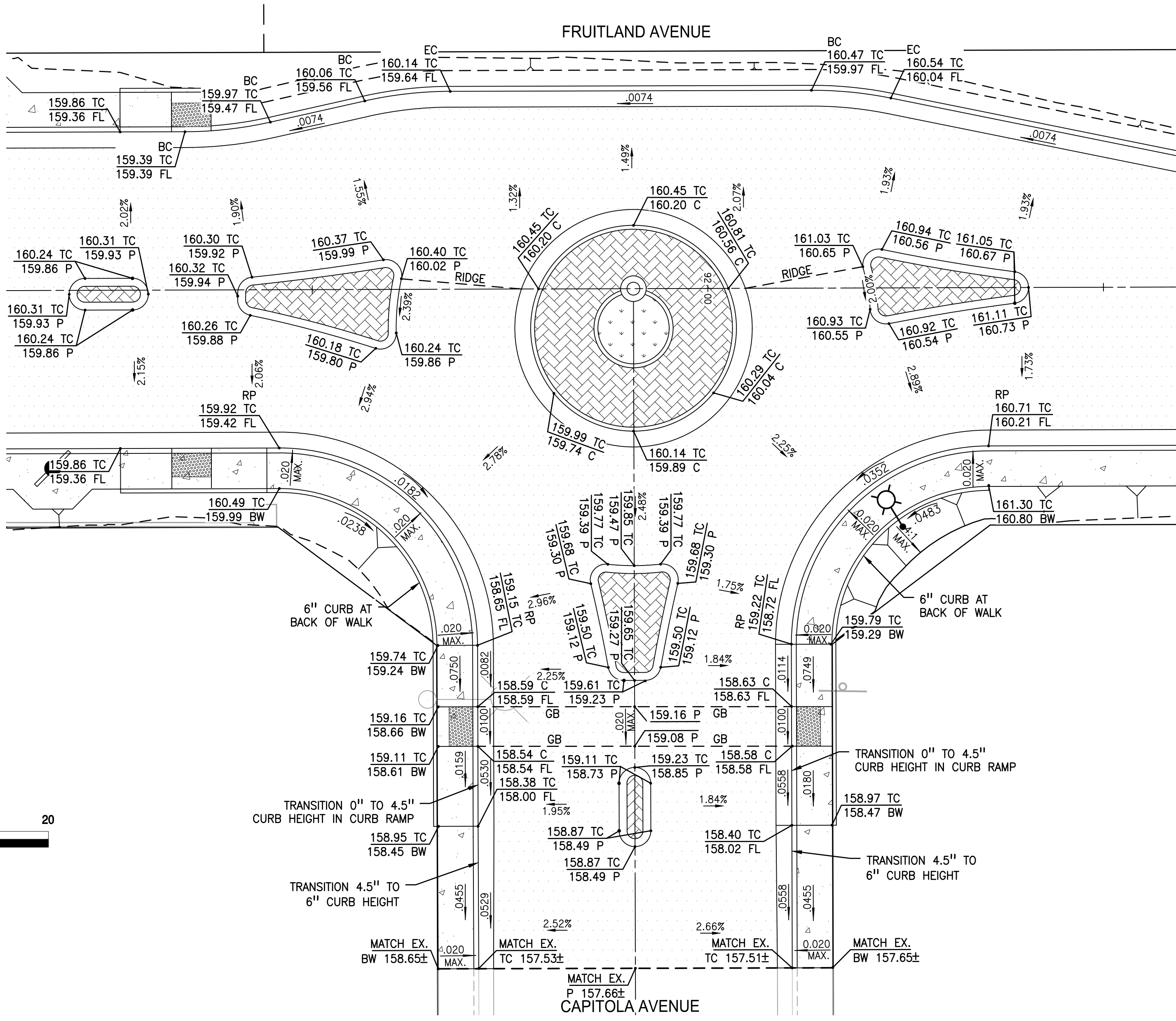
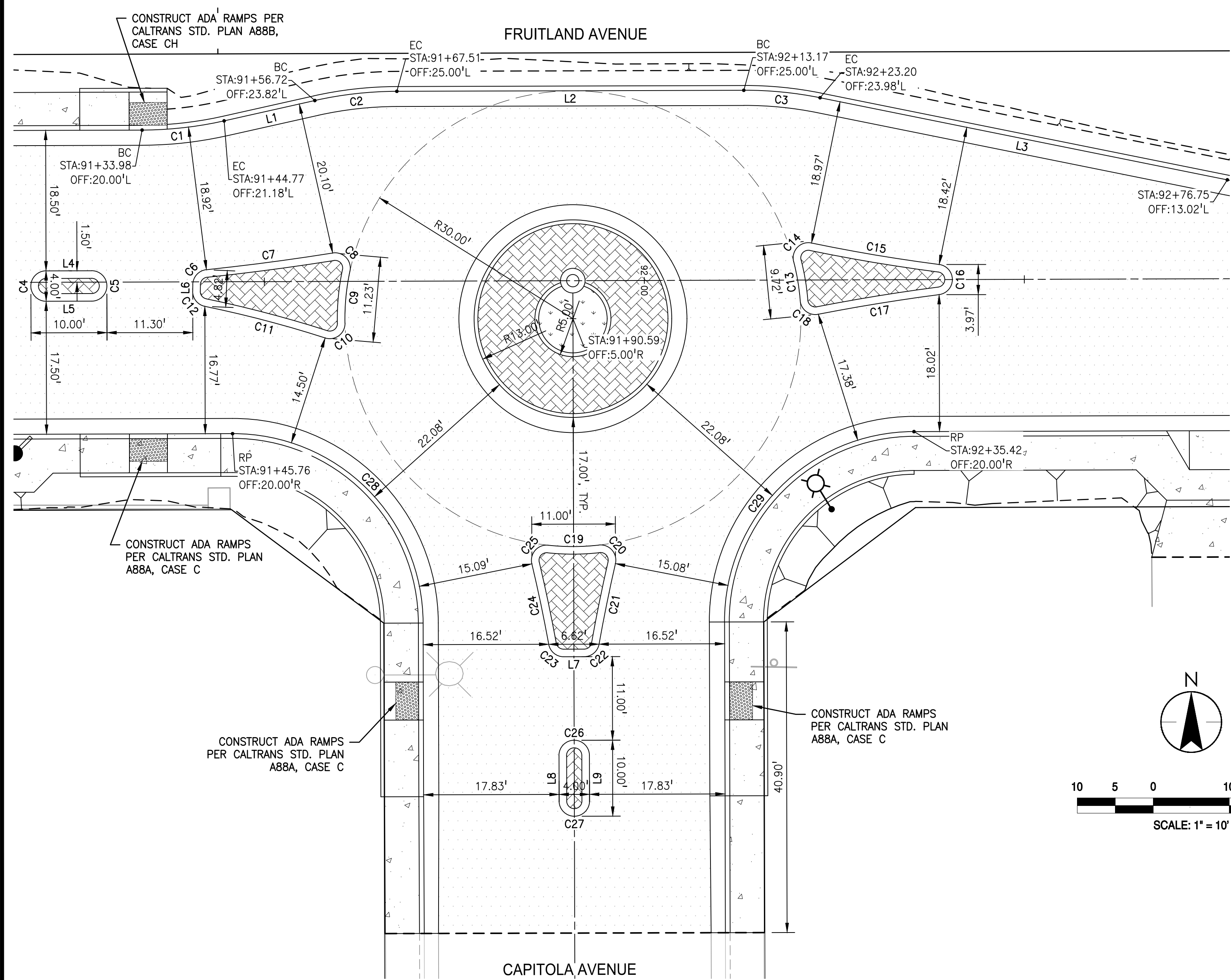
Engineer's Signature:
Signature Date: 04.15.2024

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Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 50_DET
JVP RFC IY 03.26.24
Dwn Chkd. Dsgn. MM.00.YY

SEGMENT TABLE			
LINE / CURVE #	LENGTH	DIRECTION / DELTA	RADIUS
C1	10.88'	N83° 35' 32"E	50.00'
C2	10.88'	S83° 35' 32"W	50.00'
C3	10.10'	N84° 23' 11"W	50.00'
C4	6.28'	S0° 10' 23"E	2.00'
C5	6.28'	N0° 10' 23"W	2.00'
C6	2.90'	S42° 30' 43"W	2.00'
C7	16.76'	N82° 28' 10"E	310.00'
C8	3.88'	N43° 31' 37"W	2.00'
C9	6.89'	S5° 26' 47"W	30.00'
C10	3.79'	N53° 05' 27"E	2.00'
C11	16.40'	N75° 15' 29"W	152.00'
C12	2.77'	S38° 40' 20"E	2.00'
C13	5.19'	N9° 31' 03"W	30.00'
C14	4.05'	S43° 36' 12"W	2.00'
C15	17.03'	S80° 27' 40"E	228.00'
C16	5.78'	N0° 00' 23"E	2.00'
C17	16.11'	S80° 46' 04"W	250.00'
C18	3.37'	S52° 49' 14"E	2.00'
C19	6.67'	N89° 50' 04"E	30.00'
C20	3.82'	N41° 46' 52"W	2.00'

SEGMENT TABLE			
LINE / CURVE #	LENGTH	DIRECTION / DELTA	RADIUS
C21	10.82'	S11° 29' 57"W	210.00'
C22	2.79'	N49° 55' 42"E	2.00'
C23	2.79'	S50° 15' 36"E	2.00'
C24	10.82'	N11° 49' 49"W	210.00'
C25	3.82'	S41° 27' 00"W	2.00'
C26	6.28'	S89° 50' 04"W	2.00'
C27	6.28'	N89° 50' 04"E	2.00'
C28	39.27'	N45° 10' 10"W	25.00'
C29	39.27'	S44° 49' 50"W	25.00'
L1	12.23'	N77° 21' 27"E	
L2	45.66'	S89° 49' 37"W	
L3	54.66'	S78° 35' 58"E	
L4	6.00'	N89° 49' 37"E	
L5	6.00'	S89° 49' 37"W	
L6	0.87'	N1° 00' 21"E	
L7	2.69'	S89° 50' 04"W	
L8	6.00'	S0° 09' 56"E	
L9	6.00'	N0° 09' 56"W	



CAPITOLA AVENUE INTERSECTION LAYOUT DETAIL

CAPITOLA AVENUE INTERSECTION GRADING DETAIL

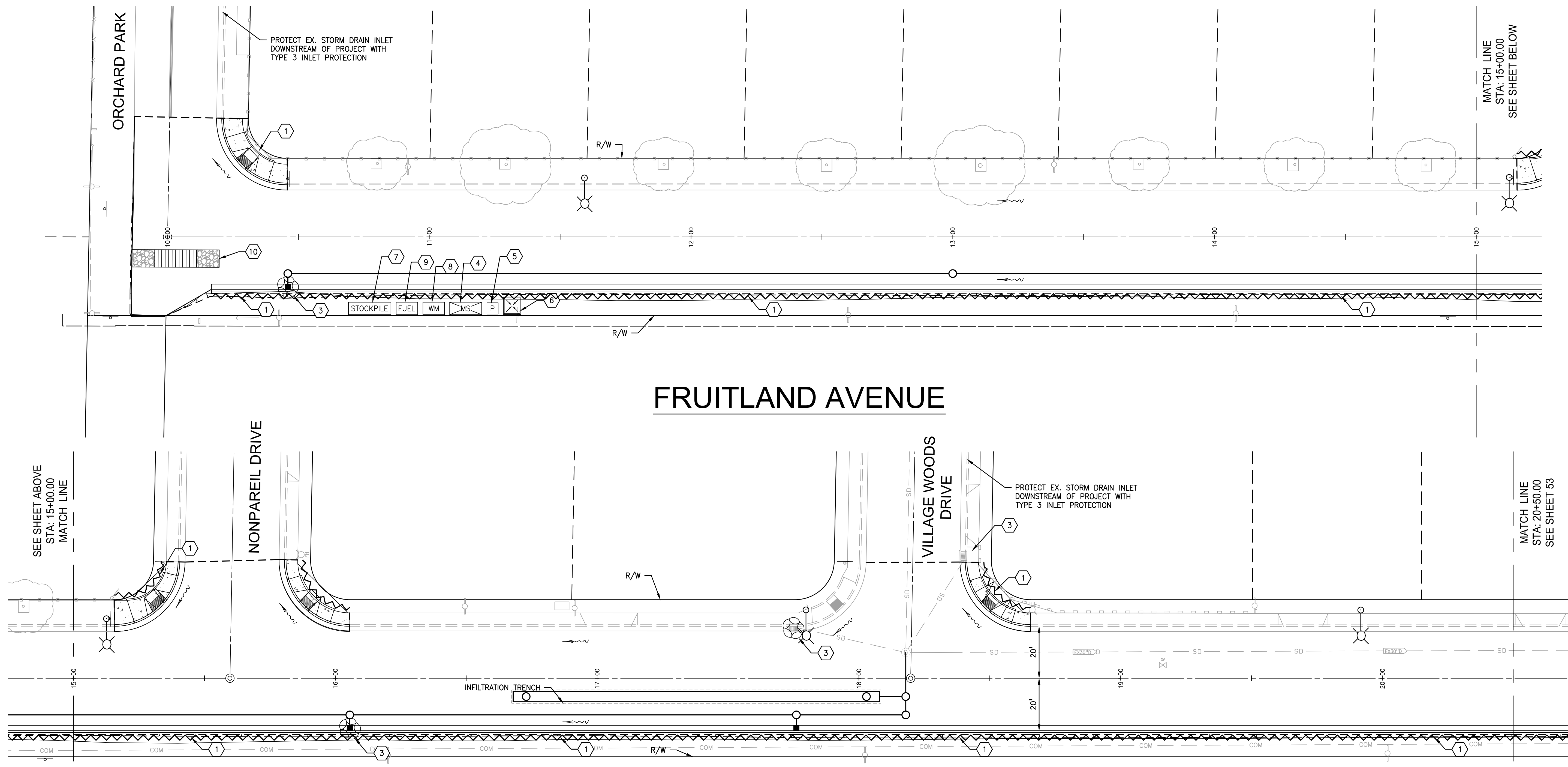
No.	MM.YY	Description	By	Appd.

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

Engineer's Seal
REGISTERED PROFESSIONAL ENGINEER
ROBERT FRANCIS CHRISTENSEN
CIVIL
STATE OF CALIFORNIA
Robert Christensen
Exp. 09-30-24
Signature Date: 04.15.2024

811
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Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 51_DET
JVP: RFC: Y: 03.26.24
Dwn: Chkd: Dgmn: MM-DD-YY



FRUITLAND AVENUE

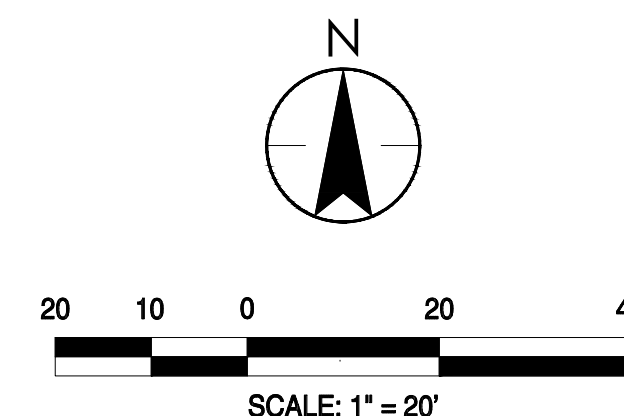
FRUITLAND AVENUE

EROSION CONTROL LEGEND	
	LIMITS OF CONSTRUCTION
	CONCENTRATED FLOW
	SHEET FLOW
	FIBER ROLL
	PORTABLE TOILET LOCATION
	MATERIAL STORAGE AREA
	WASTE MANAGEMENT AREA
	REFUELING AREA
	SOIL/DEBRIS STOCKPILE AREA
	STABILIZED ENTRANCE/EXIT
	CONCRETE WASHOUT

KEY NOTES (#)	
①	INSTALL FIBER ROLL PER DETAIL 2, SHEET 62. (CASQA BMP SE-5)
②	INSTALL STORM DRAIN INLET PROTECTION (TYPE 2) PER DETAIL 7, SHEET 62. (CASQA BMP SE-10)
③	INSTALL STORM DRAIN INLET PROTECTION (TYPE 3) PER DETAIL 6, SHEET 62. (CASQA BMP SE-10)
④	POTENTIAL LOCATION FOR MATERIAL STORAGE (CASQA BMP WM-1)
⑤	POTENTIAL PORTABLE TOILET LOCATION. PORTABLE TOILETS MUST BE LOCATED FIFTY FEET (50') FROM DRAIN INLETS. (CASQA BMP WM-9)
⑥	CONTRACTOR SHALL INSTALL APPROVED WASH-OUT STRUCTURE AT THE CONSTRUCTION SITE. ALL CONCRETE AND OTHER LIQUIDS SHALL BE WASHED OUT IN THIS STRUCTURE. SEE DETAIL 4, SHEET 62. (CASQA BMP WM-8)
⑦	POTENTIAL LOCATION FOR SOIL/DEBRIS STOCKPILING PER DETAIL 1, SHEET 62.
⑧	POTENTIAL WASTE MANAGEMENT/REFUSE BIN LOCATION. (CASQA BMP WM-5)
⑨	POTENTIAL LOCATION FOR EQUIPMENT REFUELING AREA
⑩	POTENTIAL LOCATION FOR A MINIMUM 50' X 10' STABILIZED CONSTRUCTION ENTRANCE/EXIT PER DETAIL 5, SHEET 62. (CASQA BMP TC-1)

EROSION CONTROL NOTES	
1.	CONTRACTOR SHALL ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT DEPOSIT SEDIMENT ONTO THE PUBLIC ROADWAY, SIDEWALKS, GUTTERS, OR OTHER ADJACENT PAVED SURFACES. ALL SEDIMENT AND CONSTRUCTION DEBRIS MUST BE REMOVED BY THE END OF EACH WORK DAY.
2.	CONTRACTOR SHALL USE STREET SWEEPING OR OTHER DRY SWEEPING METHOD, AS NECESSARY, TO REMOVE CONSTRUCTION-RELATED SEDIMENT FROM PUBLIC SIDEWALKS, GUTTERS, ROADWAYS, OR OTHER ADJACENT PAVED SURFACES.
3.	CONTRACTOR SHALL SCHEDULE WORK FOR DRY-WEATHER DAYS WHEN NO RAIN IS IN THE IMMEDIATE FORECAST.
4.	CONTRACTOR TO PROVIDE DRAIN INLET PROTECTION AS PER CASQA BMP FACT SHEET SE-10 FOR ALL CATCH BASINS LOCATED IN THE VICINITY OF WORK AND AT ALL INLET LOCATIONS WHERE SEDIMENT LADEN RUNOFF MAY ENTER STORM DRAIN SYSTEM.
5.	THIS PLAN IS INTENDED AS AN INITIAL RECOMMENDATION FOR EROSION CONTROL AND STORMWATER POLLUTION PREVENTION AS A RESULT OF THE PROJECT CONSTRUCTION, AND IS INTENDED TO BE USED AS PART OF A COMPREHENSIVE SWPPP OR OTHER WATER POLLUTION CONTROL PLAN. THE PLAN WILL NEED TO BE UPDATED THROUGHOUT THE PROJECT DURATION DEPENDING ON THE SPECIFIC PHASE OF CONSTRUCTION, AS WELL AS SITE-SPECIFIC CONDITIONS WHICH MAY EVOLVE OVER THE COURSE OF THE PROJECT.

WDID#: TBD



WAVE CONSULTING ENGINEERS
 430 10th Street
 Modesto, CA 95354
 Tel.: 209.568.4477
 Fax: 209.568.4478

No.	MM.YY	Description	By	Appd.

Client/Project
 CITY OF ATWATER
 FRUITLAND AVENUE
 RECONSTRUCTION PROJECT PHASE III
 BID CALL NUMBER: 725-24
 CITY PROJECT NUMBER: 16-2-3
 ATWATER, CALIFORNIA

Title
EROSION AND SEDIMENT CONTROL PLAN

Engineer's Seal

 Robert S. Christensen
 Engineer's Signature:
 Signature Date: 04.15.2024

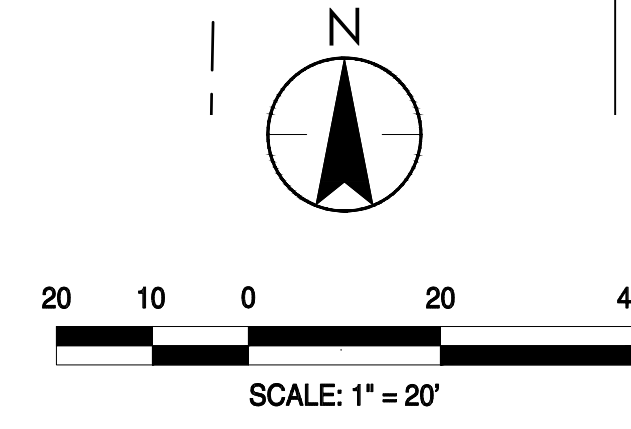
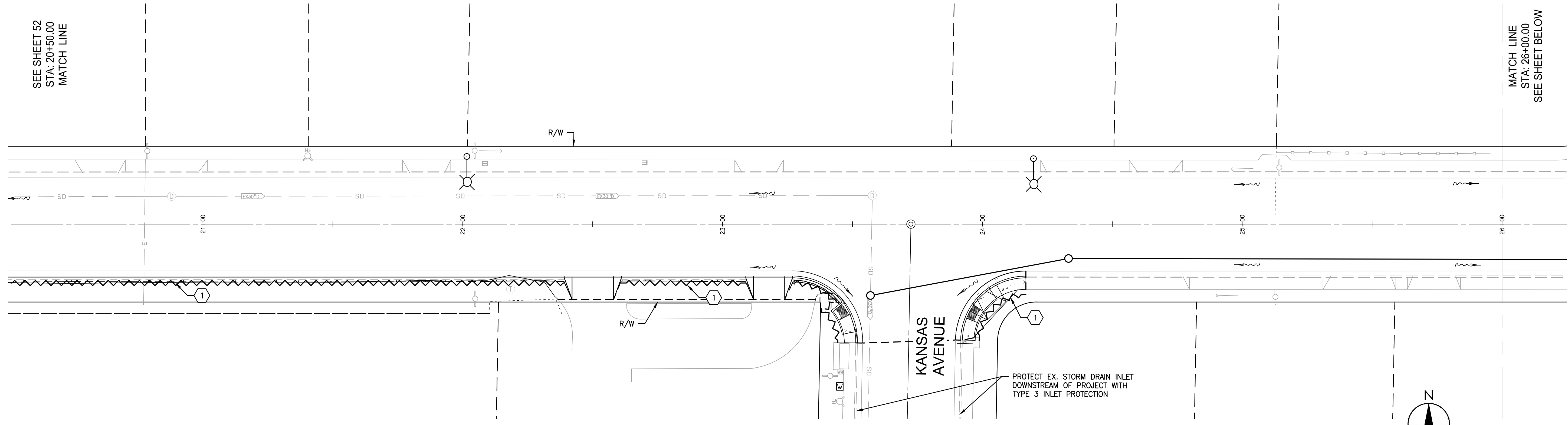
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 Know what's below.
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Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 52_EROS
 JVP: RFC IY 03.26.24
 Dwn: Chkd. Dagn. MM-DD-YY
 Sheet No.

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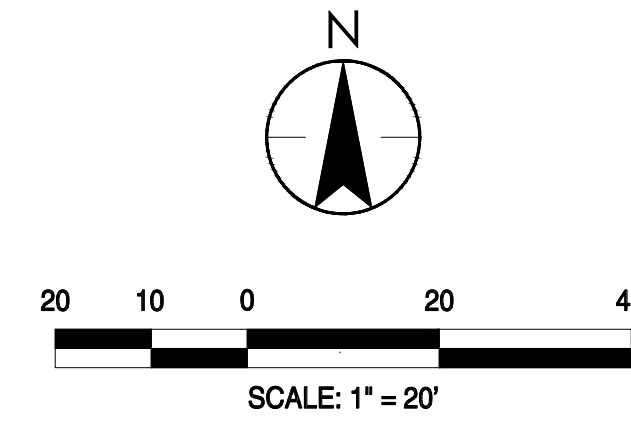
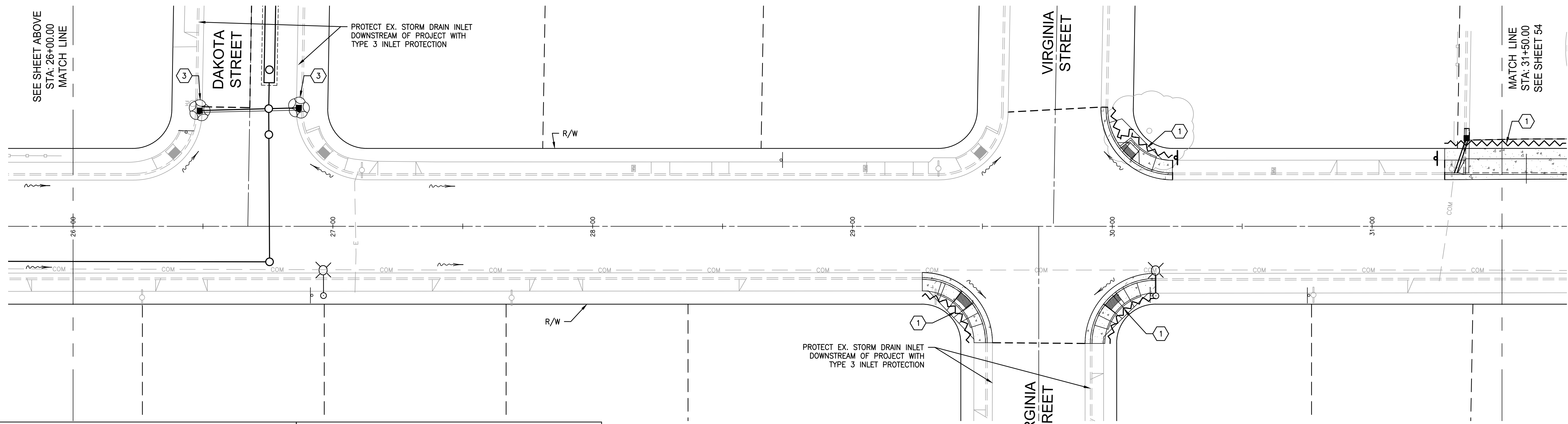
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MATCH LINE
STA: 26+00.00
SEE SHEET BELOW



SEE SHEET ABOVE
STA: 26+00.00
MATCH LINE

MATCH LINE
STA: 31+50.00
SEE SHEET 54



KEY NOTES (#)	
1	INSTALL FIBER ROLL PER DETAIL 2, SHEET 62. (CASQA BMP SE-5)
2	INSTALL STORM DRAIN INLET PROTECTION (TYPE 2) PER DETAIL 7, SHEET 62. (CASQA BMP SE-10)
3	INSTALL STORM DRAIN INLET PROTECTION (TYPE 3) PER DETAIL 6, SHEET 62. (CASQA BMP SE-10)
4	POTENTIAL LOCATION FOR MATERIAL STORAGE (CASQA BMP WM-1)
5	POTENTIAL PORTABLE TOILET LOCATION. PORTABLE TOILETS MUST BE LOCATED FIFTY FEET (50') FROM DRAIN INLETS. (CASQA BMP WM-9)
6	CONTRACTOR SHALL INSTALL APPROVED WASH-OUT STRUCTURE AT THE CONSTRUCTION SITE. ALL CONCRETE AND OTHER LIQUIDS SHALL BE WASHED OUT IN THIS STRUCTURE. SEE DETAIL 4, SHEET 62. (CASQA BMP WM-8)

KEY NOTES (#)	
7	POTENTIAL LOCATION FOR SOIL/DEBRIS STOCKPILING PER DETAIL 1, SHEET 62.
8	POTENTIAL WASTE MANAGEMENT/REFUSE BIN LOCATION. (CASQA BMP WM-5)
9	POTENTIAL LOCATION FOR EQUIPMENT REFUELING AREA
10	POTENTIAL LOCATION FOR A MINIMUM 50' X 10' STABILIZED CONSTRUCTION ENTRANCE/EXIT PER DETAIL 5, SHEET 62. (CASQA BMP TC-1)

FRUITLAND AVENUE

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430 10th Street
Modesto, CA 95354
Tel.: 209.588.4477
Fax: 209.588.4478

No.	MM.YY	Description	By	Appd.

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

Title
EROSION AND SEDIMENT CONTROL PLAN

Engineer's Seal

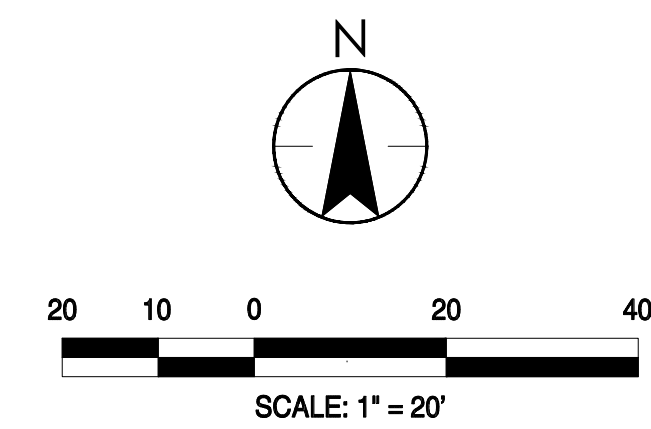
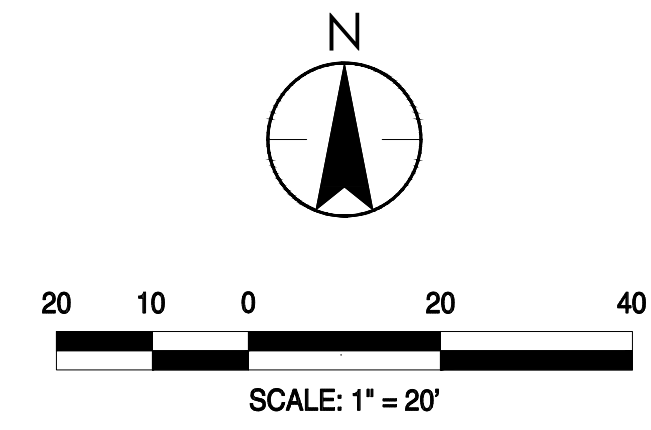
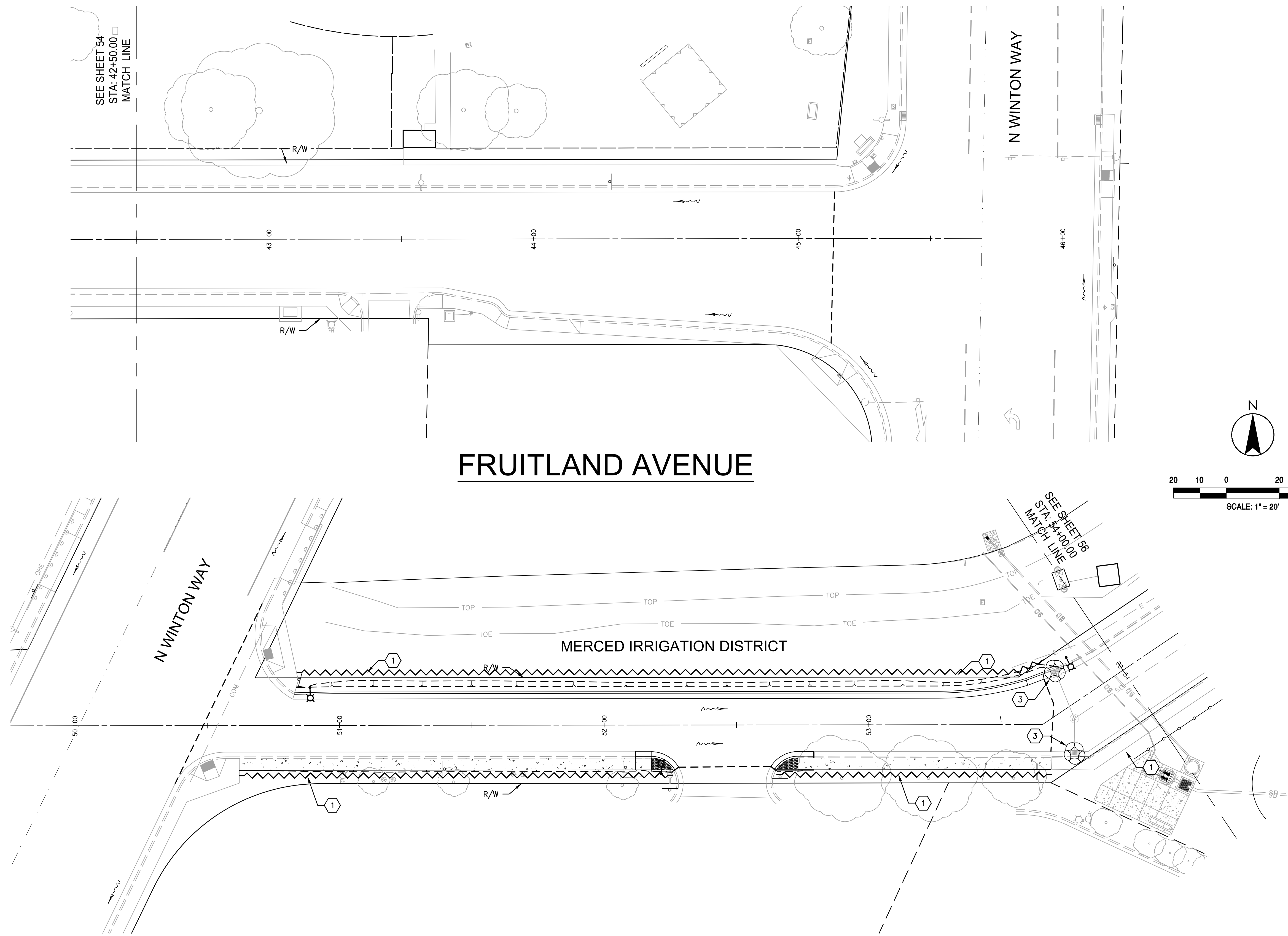
Robert S. Anderson
Engineer's Signature:
Signature Date: 04.15.2024

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Project Engineer: ROBERT CHRISTENSEN
Project Number: 1093-0103
File Name: 53_EROS
JVP: RFC IY 03.26.24
Dwn: Chkd. Dgmn. MM.DD.YY
Sheet No.

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FRUITLAND AVENUE

FRUITLAND AVENUE

KEY NOTES (#)	
1	INSTALL FIBER ROLL PER DETAIL 2, SHEET 62. (CASQA BMP SE-5)
2	INSTALL STORM DRAIN INLET PROTECTION (TYPE 2) PER DETAIL 7, SHEET 62. (CASQA BMP SE-10)
3	INSTALL STORM DRAIN INLET PROTECTION (TYPE 3) PER DETAIL 6, SHEET 62. (CASQA BMP SE-10)
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5	POTENTIAL PORTABLE TOILET LOCATION. PORTABLE TOILETS MUST BE LOCATED FIFTY FEET (50') FROM DRAIN INLETS. (CASQA BMP WM-9)
6	CONTRACTOR SHALL INSTALL APPROVED WASH-OUT STRUCTURE AT THE CONSTRUCTION SITE. ALL CONCRETE AND OTHER LIQUIDS SHALL BE WASHED OUT IN THIS STRUCTURE. SEE DETAIL 4, SHEET 62. (CASQA BMP WM-8)

KEY NOTES (#)	
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9	POTENTIAL LOCATION FOR EQUIPMENT REFUELING AREA
10	POTENTIAL LOCATION FOR A MINIMUM 50' X 10' STABILIZED CONSTRUCTION ENTRANCE/EXIT PER DETAIL 5, SHEET 62. (CASQA BMP TC-1)



No.	DATE	BY	APP'D.	DESCRIPTION

Client/Project:
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

Title:
EROSION AND SEDIMENT CONTROL PLAN

Engineer's Seal:

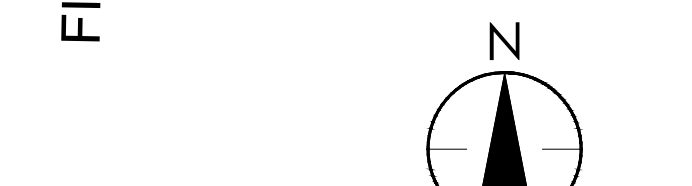
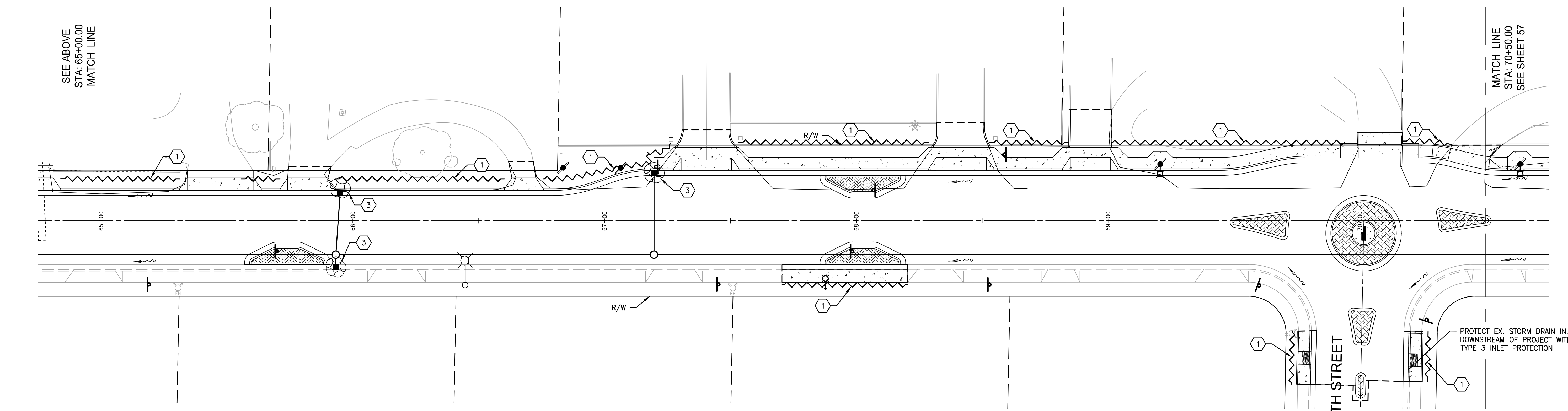
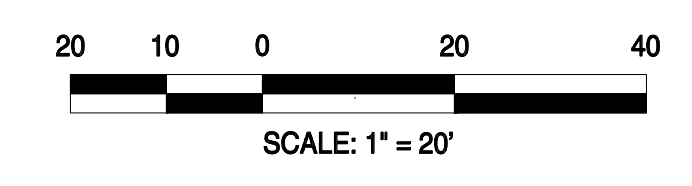
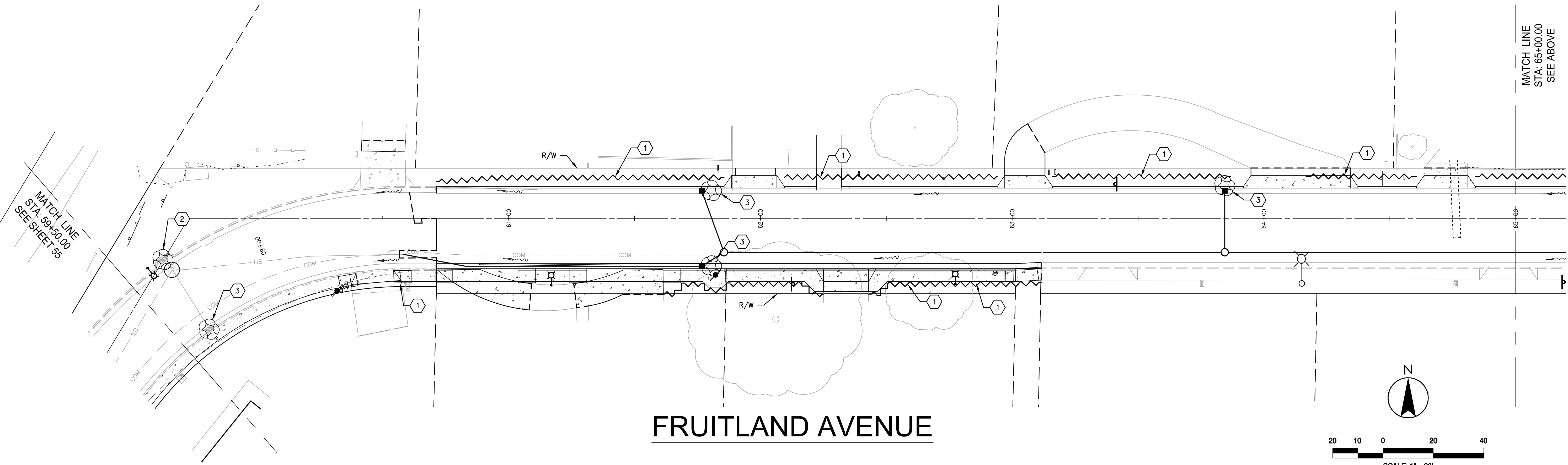
 Robert S. [Signature]
 Engineer's Signature:
 Signature Date: 04.15.2024

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 Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 55_EROS
 JVP: RFC IY 03.26.24
 Dwn: Chkd. Dsgn. MM.00.YY
 Sheet No.

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FRUITLAND AVENUE

FRUITLAND AVENUE



KEY NOTES (#)		KEY NOTES (#)	
1	INSTALL FIBER ROLL PER DETAIL 2, SHEET 62. (CASQA BMP SE-5)	7	POTENTIAL LOCATION FOR SOIL/DEBRIS STOCKPILING PER DETAIL 1, SHEET 62.
2	INSTALL STORM DRAIN INLET PROTECTION (TYPE 2) PER DETAIL 7, SHEET 62. (CASQA BMP SE-10)	8	POTENTIAL WASTE MANAGEMENT/REFUSE BIN LOCATION. (CASQA BMP WM-5)
3	INSTALL STORM DRAIN INLET PROTECTION (TYPE 3) PER DETAIL 6, SHEET 62. (CASQA BMP SE-10)	9	POTENTIAL LOCATION FOR EQUIPMENT REFUELING AREA
4	POTENTIAL LOCATION FOR MATERIAL STORAGE (CASQA BMP WM-1)	10	POTENTIAL LOCATION FOR A MINIMUM 50' X 10' STABILIZED CONSTRUCTION ENTRANCE/EXIT PER DETAIL 5, SHEET 62. (CASQA BMP TC-1)
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MATCH LINE
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SEE ABOVE

MATCH LINE
STA: 70+50.00
SEE SHEET 57

PROTECT EX. STORM DRAIN INLET
DOWNSTREAM OF PROJECT WITH
TYPE 3 INLET PROTECTION

W&E CONSULTING ENGINEERS
 430 10th Street
 Modesto, CA 95354
 Tel.: 209.568.4477
 Fax: 209.568.4478

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No.	MM.YY	Description	By	Appd.

Client/Project
 CITY OF ATWATER
 FRUITLAND AVENUE
 RECONSTRUCTION PROJECT PHASE III
 BID CALL NUMBER: 725-24
 CITY PROJECT NUMBER: 16-2-3
 ATWATER, CALIFORNIA

Engineer's Seal

 Robert S. Christensen
 Engineer's Signature:
 Signature Date: 04.15.2024

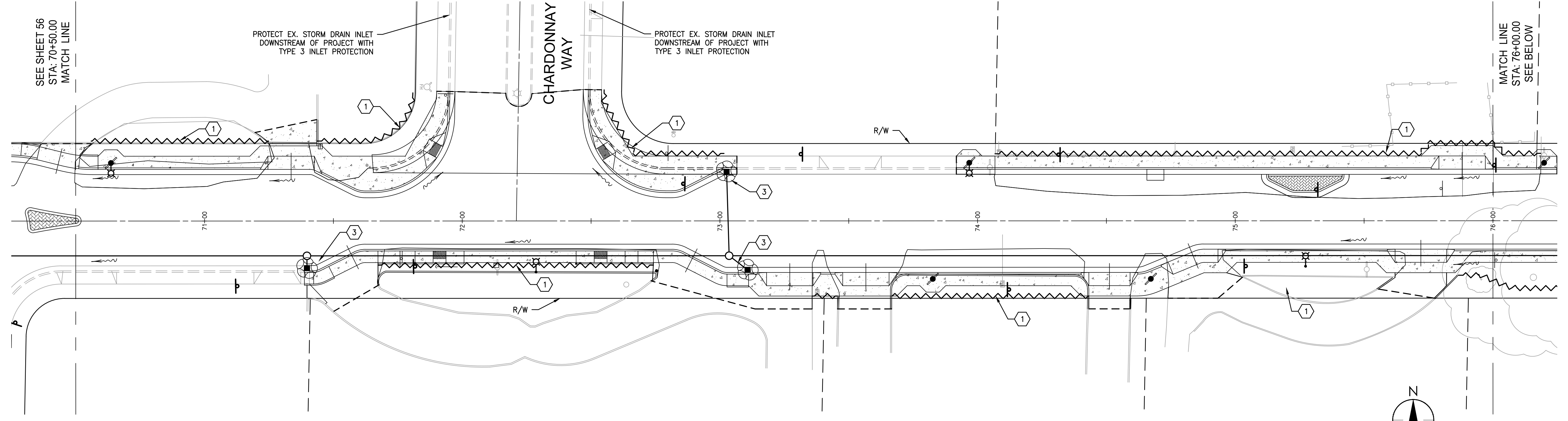
Title
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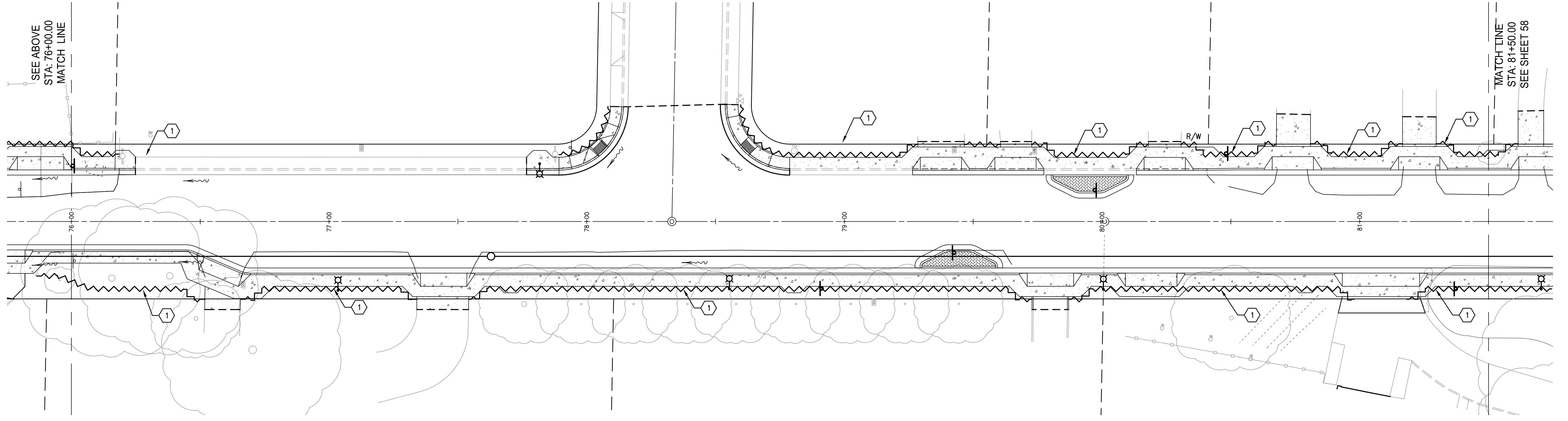
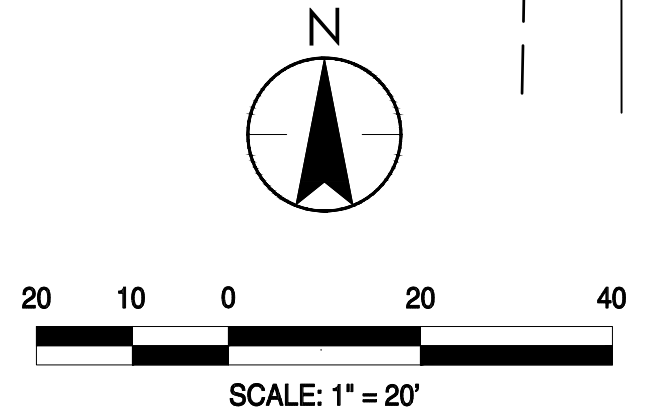
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 Project Number: 1093-0103
 File Name: 56_EROS
 JVP: RFC IY 03.26.24
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 Sheet No.

56 of 83 sheets

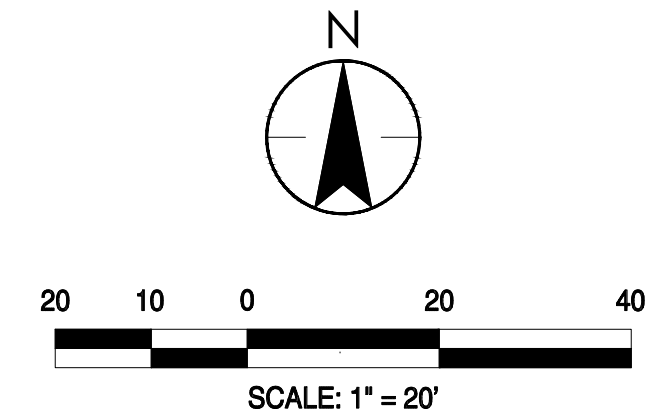
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FRUITLAND AVENUE



FRUITLAND AVENUE



KEY NOTES (#)	KEY NOTES (#)
① INSTALL FIBER ROLL PER DETAIL 2, SHEET 62. (CASQA BMP SE-5)	⑦ POTENTIAL LOCATION FOR SOIL/DEBRIS STOCKPILING PER DETAIL 1, SHEET 62.
② INSTALL STORM DRAIN INLET PROTECTION (TYPE 2) PER DETAIL 7, SHEET 62. (CASQA BMP SE-10)	⑧ POTENTIAL WASTE MANAGEMENT/REFUSE BIN LOCATION. (CASQA BMP WM-5)
③ INSTALL STORM DRAIN INLET PROTECTION (TYPE 3) PER DETAIL 6, SHEET 62. (CASQA BMP SE-10)	⑨ POTENTIAL LOCATION FOR EQUIPMENT REFUELING AREA
④ POTENTIAL LOCATION FOR MATERIAL STORAGE (CASQA BMP WM-1)	⑩ POTENTIAL LOCATION FOR A MINIMUM 50' X 10' STABILIZED CONSTRUCTION ENTRANCE/EXIT PER DETAIL 5, SHEET 62. (CASQA BMP TC-1)
⑤ POTENTIAL PORTABLE TOILET LOCATION. PORTABLE TOILETS MUST BE LOCATED FIFTY FEET (50') FROM DRAIN INLETS. (CASQA BMP WM-9)	
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No.	MM.YY	Description	By	Appr.

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

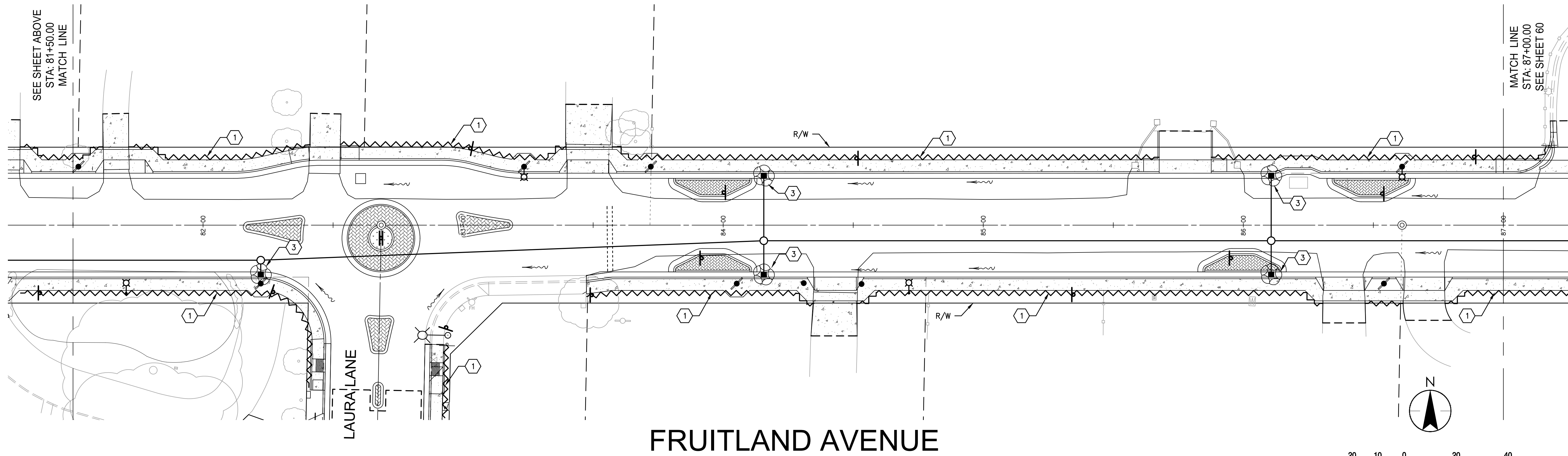
Title
EROSION AND SEDIMENT CONTROL PLAN

Engineer's Seal
REGISTERED PROFESSIONAL ENGINEER
ROBERT FRANCIS CHRISTENSEN
CIVIL
STATE OF CALIFORNIA
Exp. 06-30-24
Signature Date: 04.15.2024

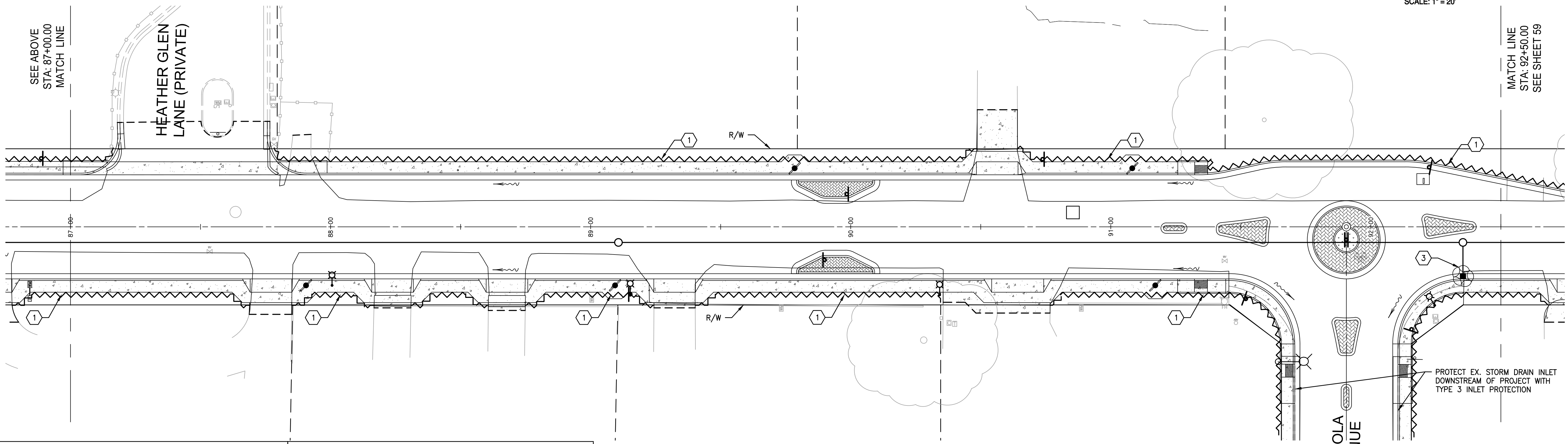
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Project Number: 1093-0103
File Name: 57_EROS
JVP RFC IY 03.26.24
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FRUITLAND AVENUE



FRUITLAND AVENUE

KEY NOTES (#)	KEY NOTES (#)
1 INSTALL FIBER ROLL PER DETAIL 2, SHEET 62. (CASQA BMP SE-5)	7 POTENTIAL LOCATION FOR SOIL/DEBRIS STOCKPILING PER DETAIL 1, SHEET 62.
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No.	MM.YY	Description	By	App'd.

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
 BID CALL NUMBER: 725-24
 CITY PROJECT NUMBER: 16-2-3
 ATWATER, CALIFORNIA

Title
EROSION AND SEDIMENT CONTROL PLAN

Engineer's Seal

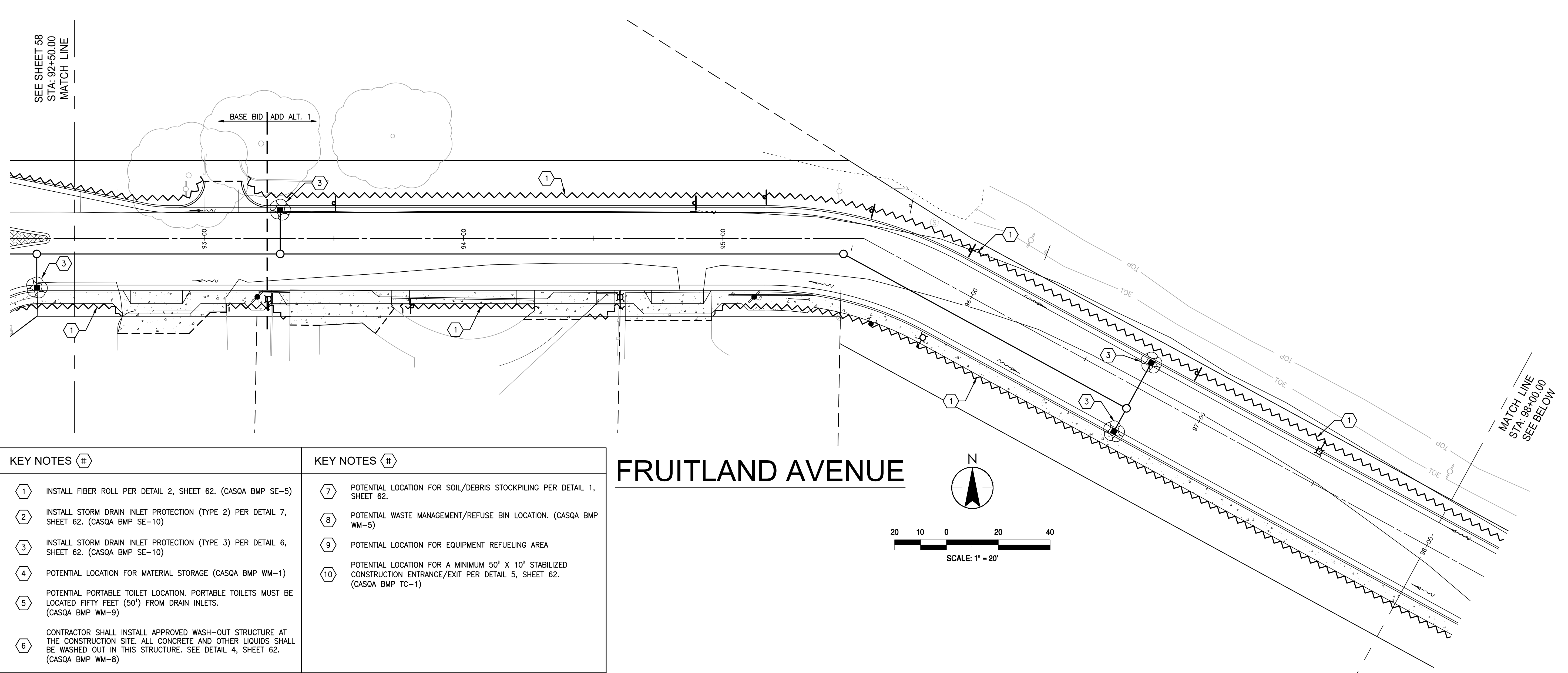
 Robert S. Christensen
 Engineer's Signature: _____
 Signature Date: 04.15.2024

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Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 58_EROS
 JVP: RFC IY 03.26.24
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 Sheet No.

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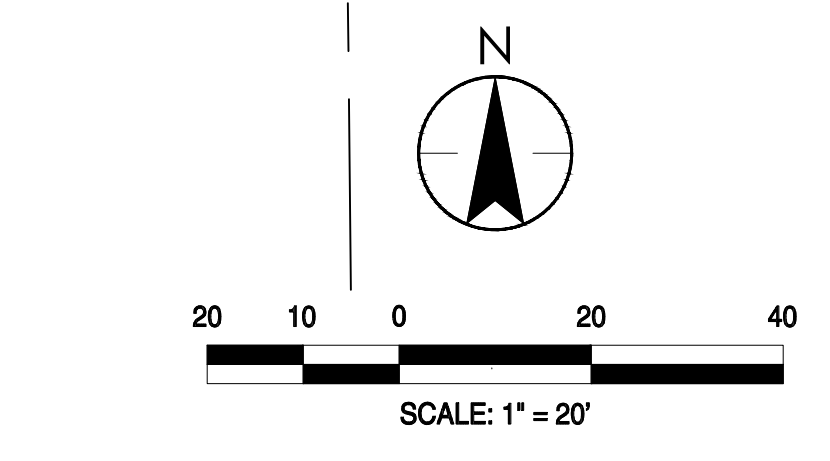
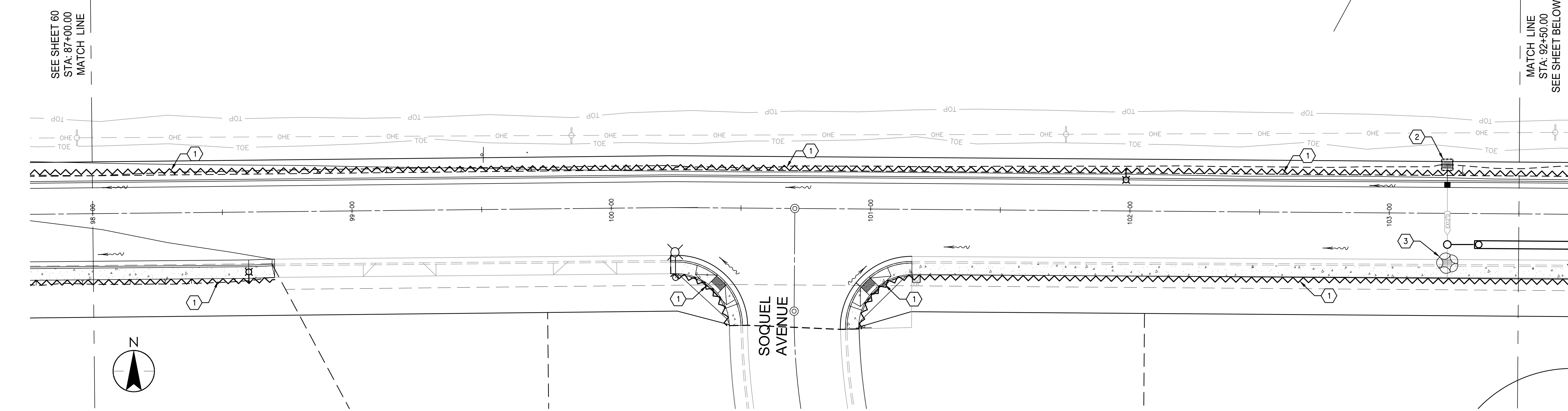
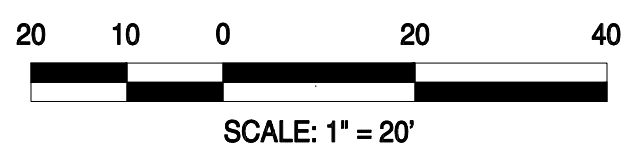
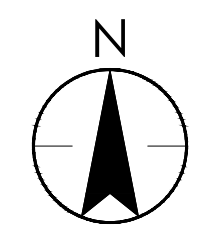
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- KEY NOTES (#)
- 1 INSTALL FIBER ROLL PER DETAIL 2, SHEET 62. (CASQA BMP SE-5)
 - 2 INSTALL STORM DRAIN INLET PROTECTION (TYPE 2) PER DETAIL 7, SHEET 62. (CASQA BMP SE-10)
 - 3 INSTALL STORM DRAIN INLET PROTECTION (TYPE 3) PER DETAIL 6, SHEET 62. (CASQA BMP SE-10)
 - 4 POTENTIAL LOCATION FOR MATERIAL STORAGE (CASQA BMP WM-1)
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 - 6 CONTRACTOR SHALL INSTALL APPROVED WASH-OUT STRUCTURE AT THE CONSTRUCTION SITE. ALL CONCRETE AND OTHER LIQUIDS SHALL BE WASHED OUT IN THIS STRUCTURE. SEE DETAIL 4, SHEET 62. (CASQA BMP WM-8)

- KEY NOTES (#)
- 7 POTENTIAL LOCATION FOR SOIL/DEBRIS STOCKPILING PER DETAIL 1, SHEET 62.
 - 8 POTENTIAL WASTE MANAGEMENT/REFUSE BIN LOCATION. (CASQA BMP WM-5)
 - 9 POTENTIAL LOCATION FOR EQUIPMENT REFUELING AREA
 - 10 POTENTIAL LOCATION FOR A MINIMUM 50' X 10' STABILIZED CONSTRUCTION ENTRANCE/EXIT PER DETAIL 5, SHEET 62. (CASQA BMP TC-1)

FRUITLAND AVENUE



FRUITLAND AVENUE

Client/Project
CITY OF ATWATER
FRUITLAND AVENUE
RECONSTRUCTION PROJECT PHASE III
BID CALL NUMBER: 725-24
CITY PROJECT NUMBER: 16-2-3
ATWATER, CALIFORNIA

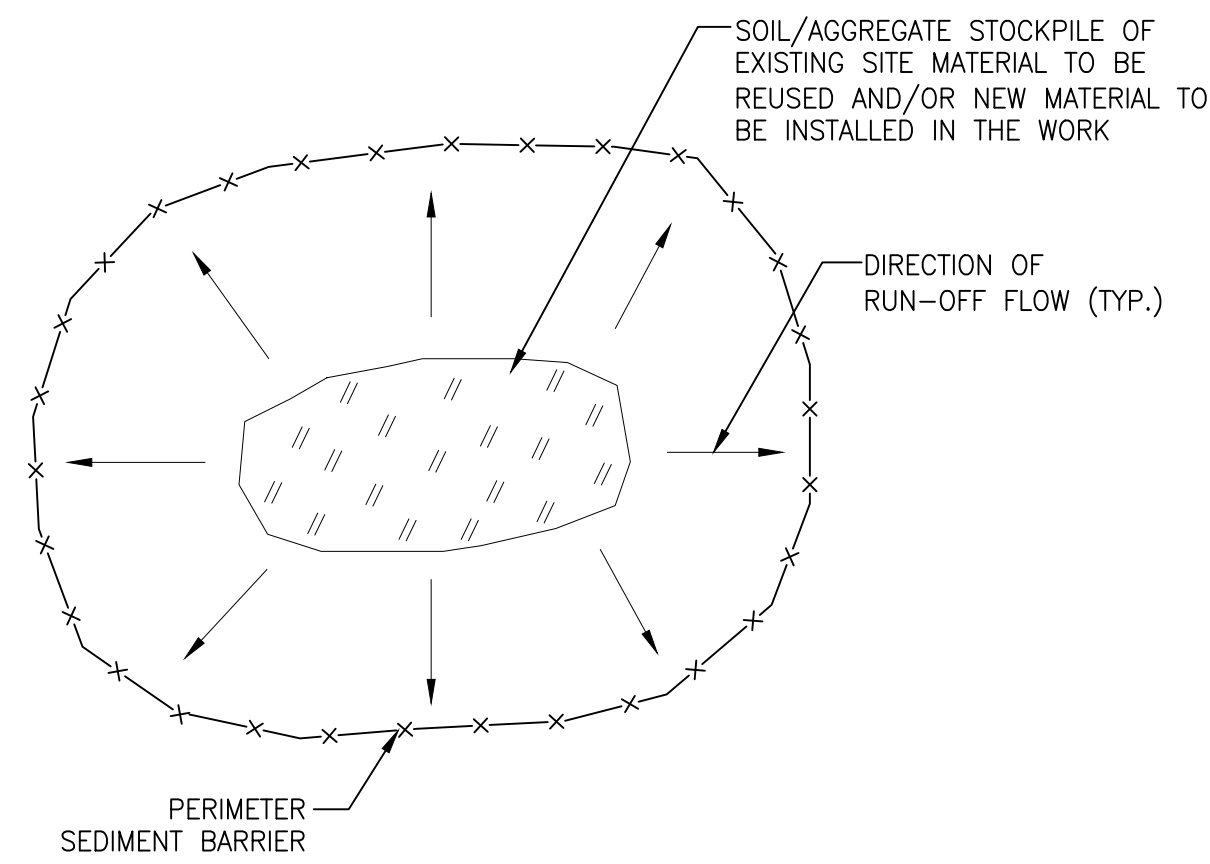
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EROSION AND SEDIMENT CONTROL PLAN

Engineer's Seal

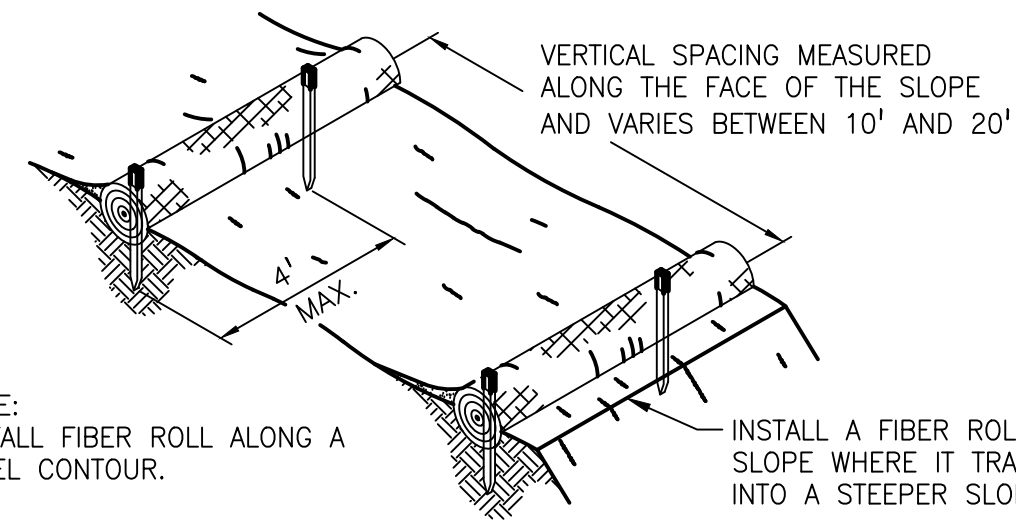
 Robert S. Christensen
 Engineer's Signature:
 Signature Date: 04.15.2024

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Know what's below.
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Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 59_EROS
 JVP: RFC IY 03.26.24
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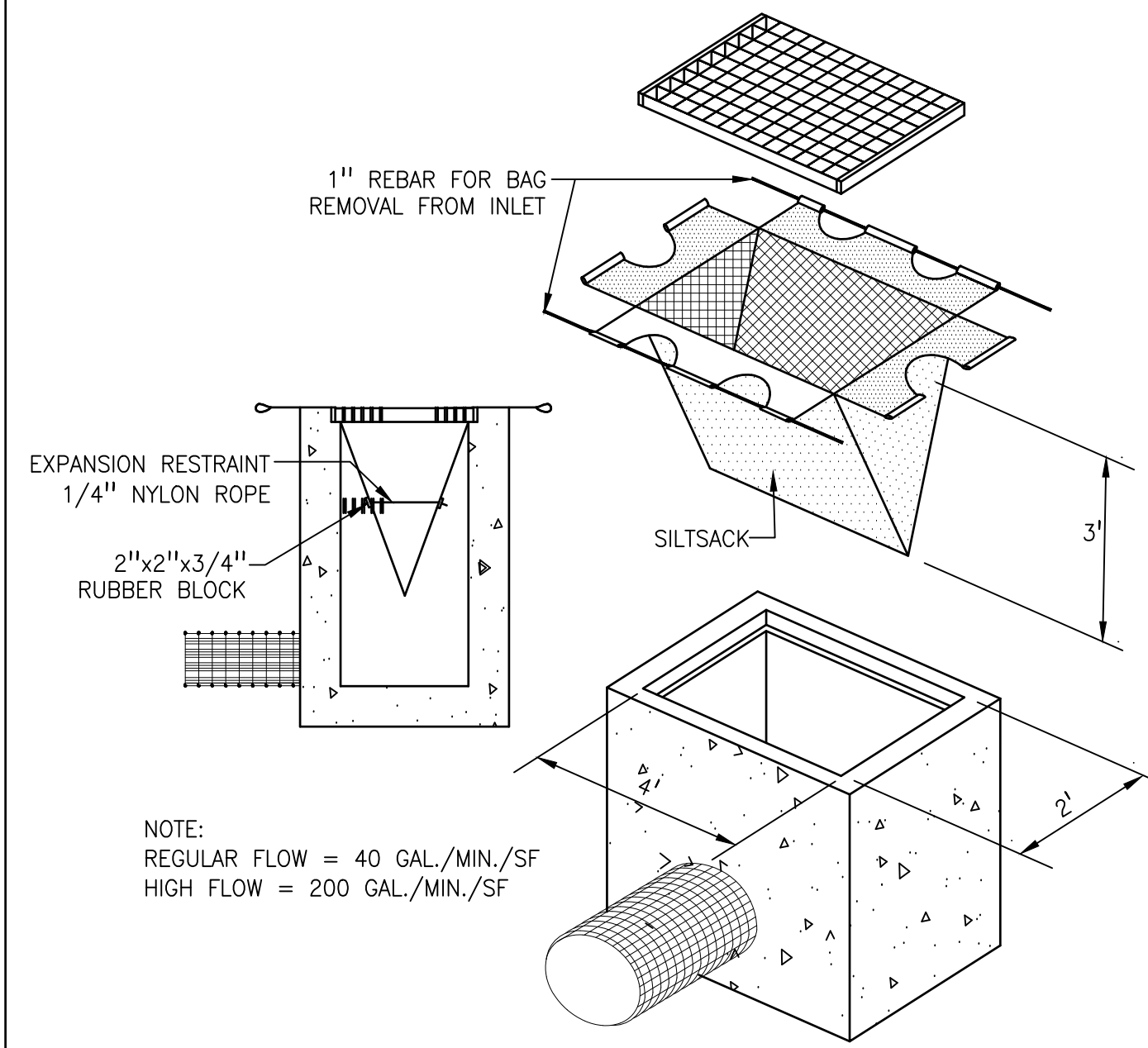
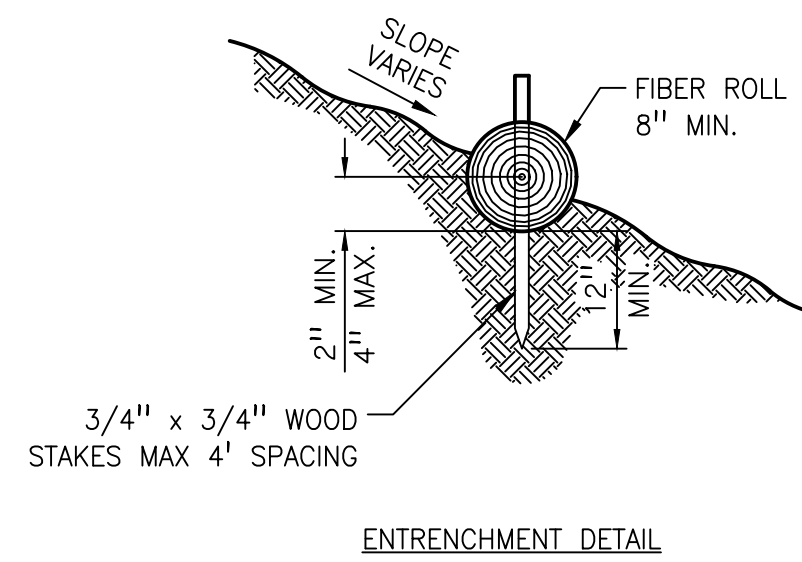


- NOTES:
1. MAINTAIN MINIMUM OF 50' SEPARATION BETWEEN STOCKPILES AND CONCENTRATED STORMWATER FLOWS.
 2. ALL EXISTING EXCAVATED MATERIAL THAT IS NOT TO BE REUSED IN THE WORK IS TO BE IMMEDIATELY REMOVED FROM THE SITE AND PROPERLY DISPOSED OF.
 3. ALL STOCKPILES ARE REQUIRED TO BE PROTECTED IMMEDIATELY IF THEY ARE NOT SCHEDULED TO BE USED WITHIN 14 DAYS.
 4. SOIL/AGGREGATE STOCKPILE SITES TO BE WHERE SHOWN ON THE DRAWINGS.
 5. RESTORE STOCKPILE SITES TO PRE-EXISTING PROJECT CONDITION AND RESEED AS REQUIRED.
 6. STOCKPILE HEIGHTS MUST NOT EXCEED 35'. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.

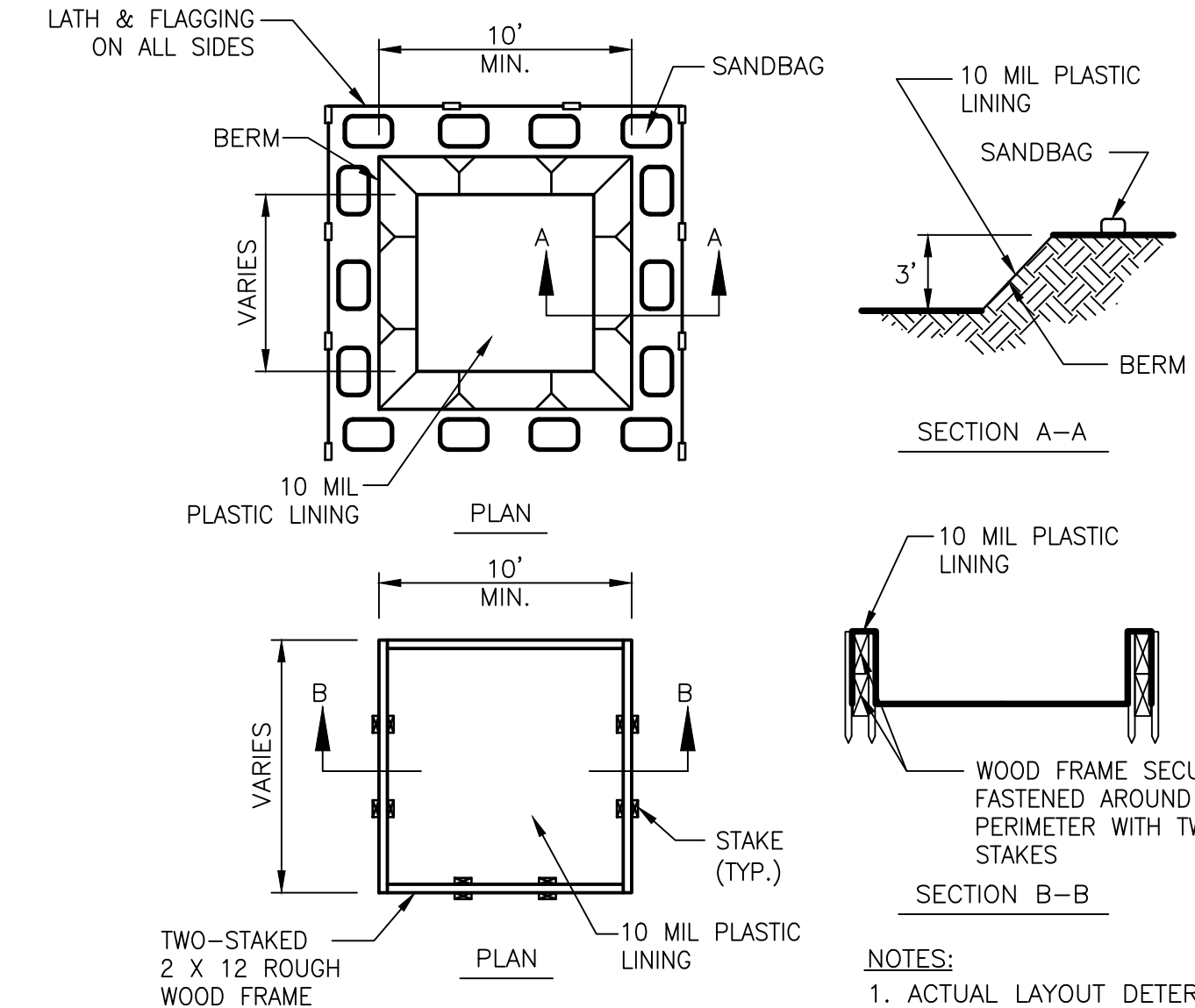


NOTE:
INSTALL FIBER ROLL ALONG A LEVEL CONTOUR.

TYPICAL INSTALLATION



NOTE:
REGULAR FLOW = 40 GAL./MIN./SF
HIGH FLOW = 200 GAL./MIN./SF



- NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD.
 2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

1 MATERIALS STOCKPILE DETAIL

N.T.S.

RE:

2 FIBER ROLL INSTALLATION

N.T.S.

RE:

3 SILTSACK

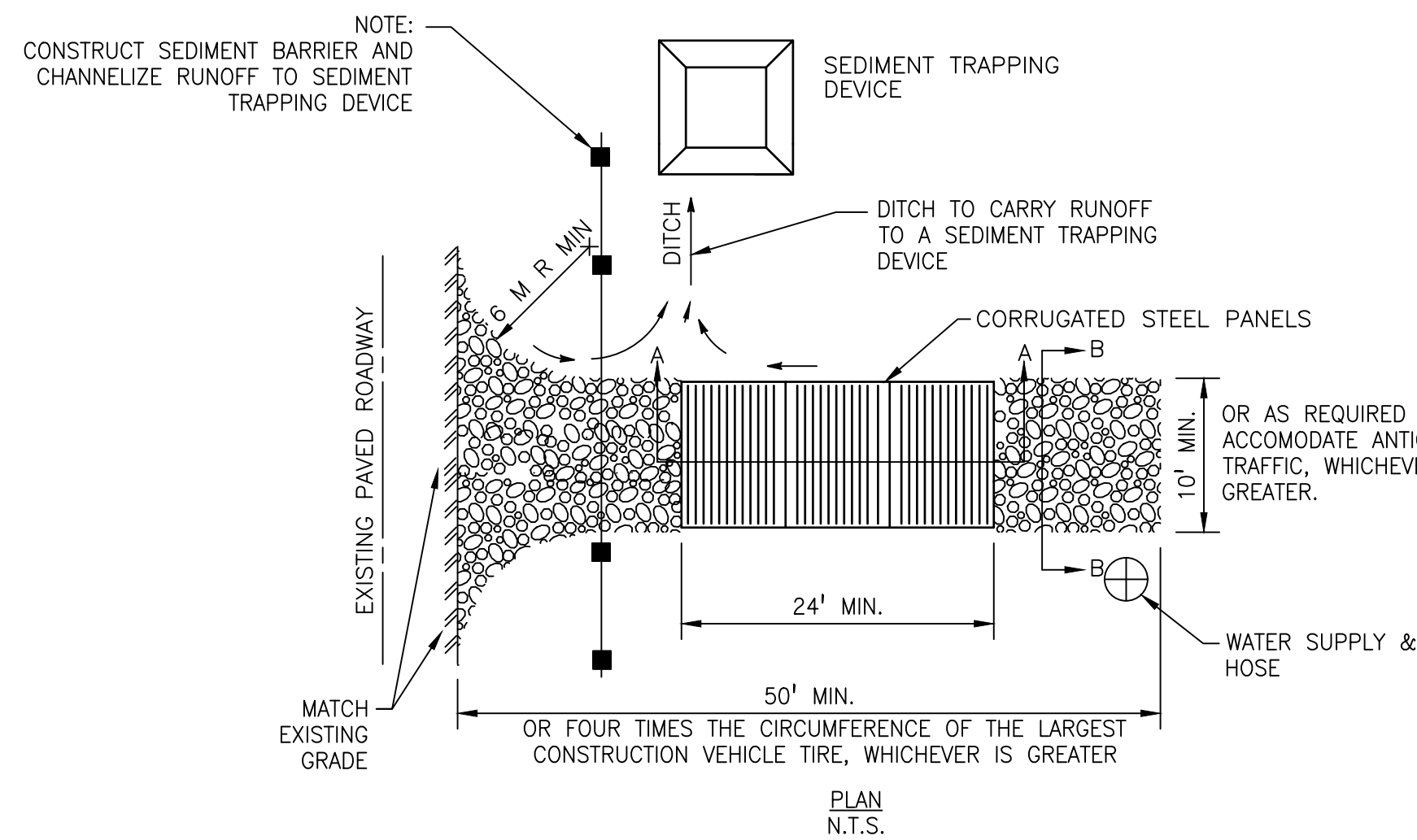
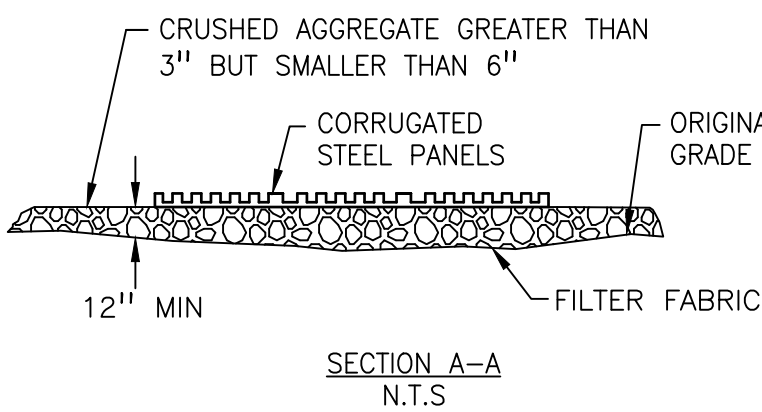
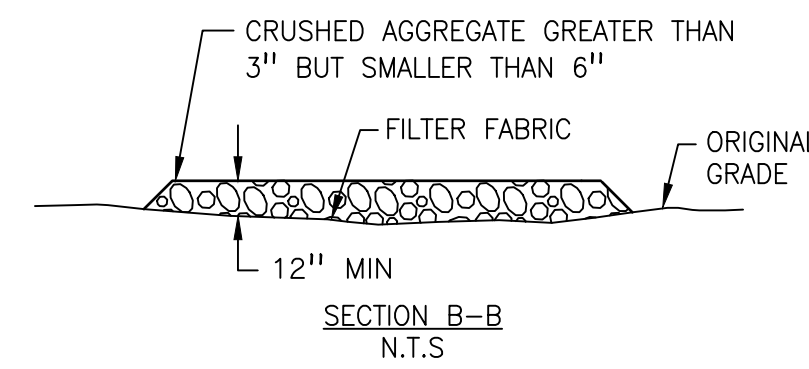
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RE:

4 CONCRETE WASH OUT

N.T.S.

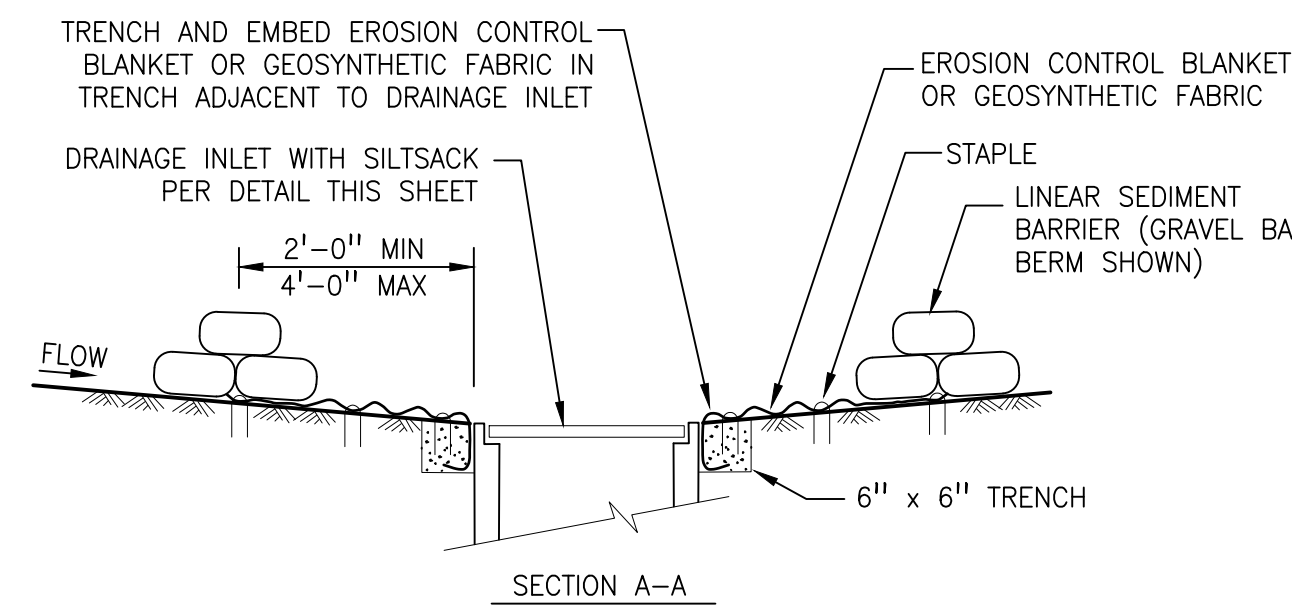
RE:



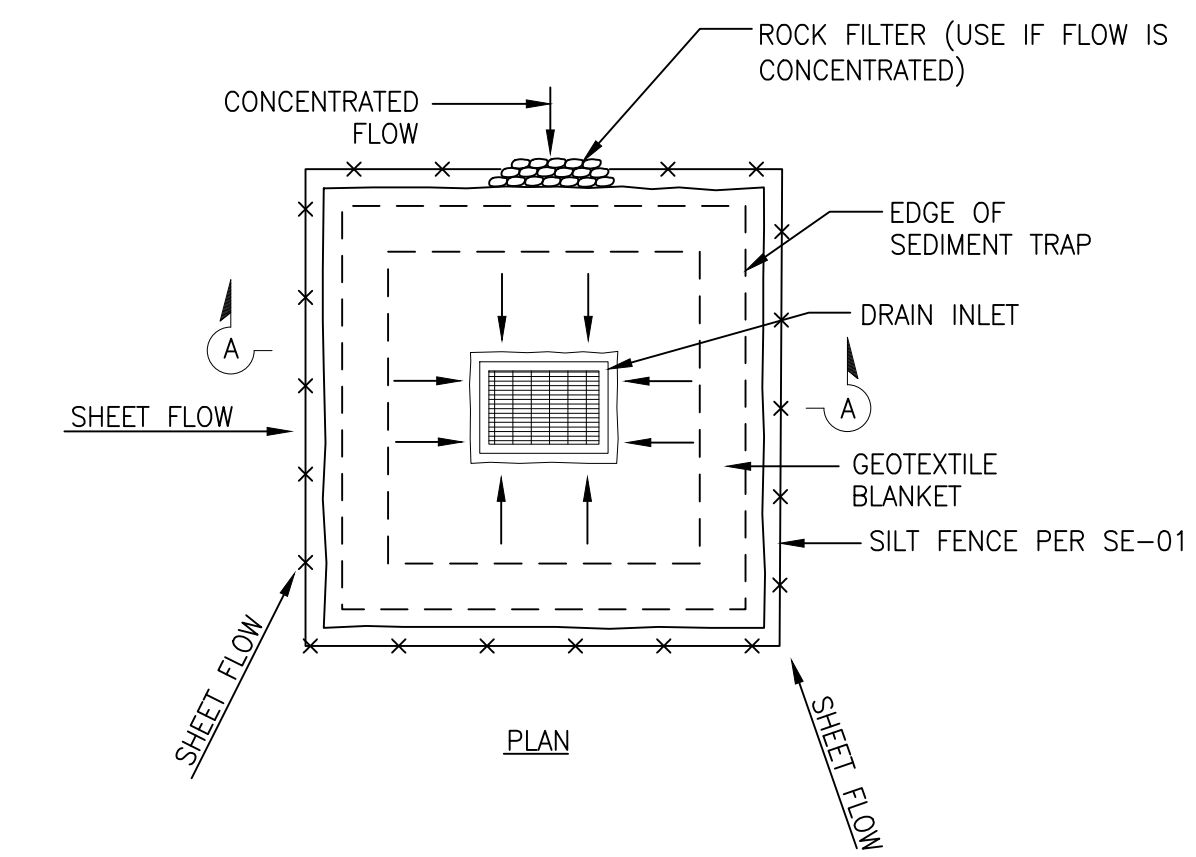
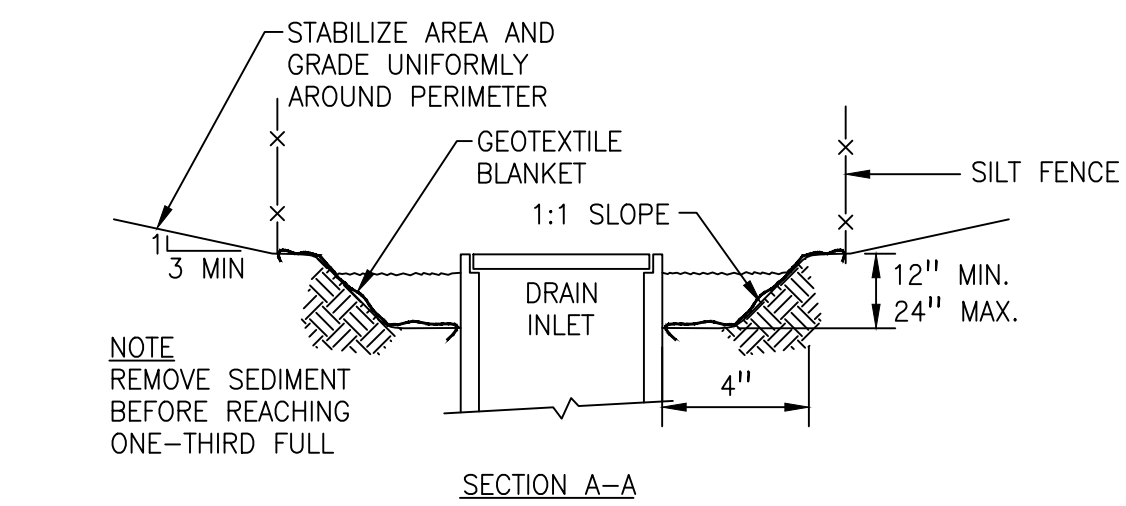
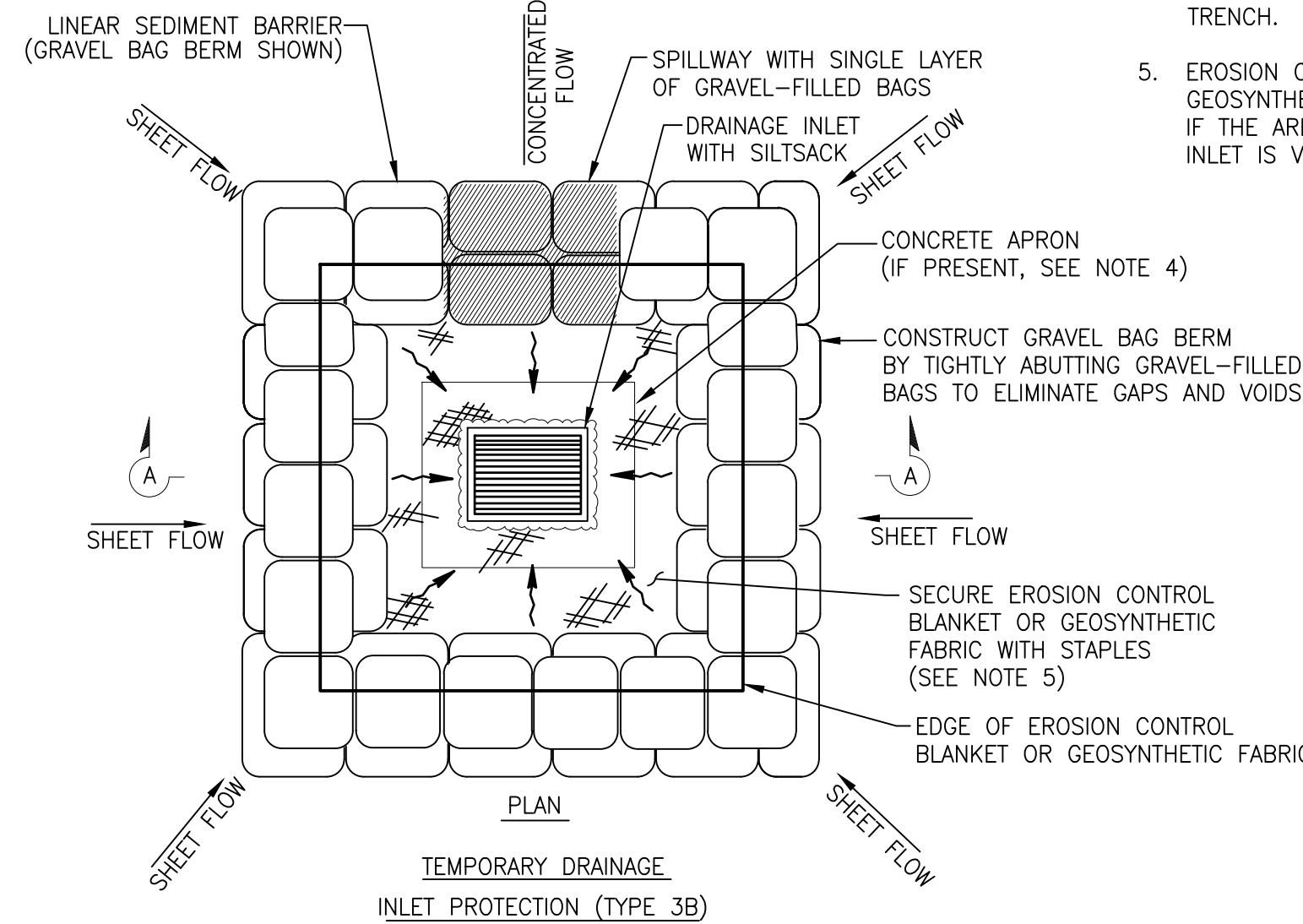
GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	1 to 3.9	4 to 5.9	6 to 7.9	8 to 10	10+
INTERVAL BETWEEN BERM	100'	75'	50'	25'	12'

FOR SLOPE OF LESS THAN 1%, INSTALL BARRIERS ONLY IF EROSION/SEDIMENT IS PREVALENT



- NOTES:
1. PLACE SAFETY CONES ADJACENT TO DRAINAGE INLET PROTECTION.
 2. DIMENSIONS MAY VARY TO FIT FIELD CONDITIONS.
 3. INSTALL A MINIMUM OF 3 GRAVEL BAG BERMS UPSTREAM OF EACH DRAINAGE INLET TO BE PROTECTED.
 4. POSITION EROSION CONTROL BLANKET OR GEOSYNTHETIC FABRIC AT EDGE OF CONCRETE APRON AND SECURE IN TRENCH.
 5. EROSION CONTROL BLANKET OR GEOSYNTHETIC FABRIC IS NOT REQUIRED IF THE AREA ADJACENT TO THE DRAINAGE INLET IS VEGETATED OR PAVED.



- NOTES:
1. FOR USE IN CLEARED AND GRUBBED AREAS.
 2. SHAPE BASIN SO THAT THE LARGEST INFLOW AREA FACES THE LONGEST LENGTH OF TRAP.
 3. FOR CONCENTRATED FLOWS, SHAPE BASIN IN 2:1 RATIO WITH LENGTH ORIENTED TOWARDS DIRECTION OF FLOW.

5 STABILIZED CONSTRUCTION ACCESS AND TIRE WASH

N.T.S.

RE:

6 STORM INLET PROTECTION (GRAVEL BAG BERM)

N.T.S.

RE:

7 STORM INLET PROTECTION (TYPE 2)

N.T.S.

RE:

No.	DATE	BY	DESCRIPTION

Engineer's Seal

 Robert Christensen
 Registered Professional Engineer
 State of California
 No. CE3087
 Exp. 06-30-24

811
 Know what's below.
 Call before you dig.

Project Engineer: ROBERT CHRISTENSEN
 Project Number: 1093-0103
 File Name: 61_EROS_DTLS
 JVP: RFC IY 03.26.24
 Dwn: Chkd. Dsgn. MM-DD-YY
 Sheet No.

ELECTRICAL ABBREVIATIONS

Δ	DELTA CONNECTED	(F)	FUTURE	OC	ON CENTER
Y	WYE CONNECTED	FA	FIRE ALARM	OH	OVERHEAD
Ø	PHASE	FACP	FIRE ALARM CONTROL PANEL	OL	THERMAL OVERLOAD RELAY
&	AND	FAT	FIRE ALARM TERMINAL CABINET	OT	OVER TEMPERATURE
@	AT	FXT	FIXTURE	OT	OFFICE OF STATEWIDE HEALTH
'	FEET	FLA	FULL LOAD AMPS	HCAJ	PLANNING AND DEVELOPMENT
-	INCHES	FLX	FLEXIBLE	PA	PUBLIC ADDRESS
A	AMPERES	FLUR	FLUORESCENT	PA	PUBLIC ADDRESS
AC	ALTERNATING CURRENT	FS	FLOW SWITCH	PB	PULL BOX
ACT	Above Counter/Backsplash	FOR	FORWARD-OFF-REVERSE	PNL	PANEL
ADJ	ADJACENT, ADJOINING	FT	FEET	PH	PHASE
AFD	ADJUSTABLE FREQUENCY DRIVE	GALV	GALVANIZED	PR	PAIR
AFF	Above Finished Floor	GND	GROUND	PR	PRIMARY
AL	ALUMINUM	GC	GENERAL CONTRACTOR	PWR	PRESSURE SWITCH POWER
APPROX	APPROXIMATE	HI	HIGH	(R)	REMOVED()
ARCH	ARCHITECT	HCA	HAND-OFF-AUTO	RA	REMOTE ANNUNCIATOR
AUTO	AUTOMATIC	HOS	HAND-OFF-STANDBY	RD	ROAD
AUX	AUXILIARY	HV	HIGH VOLTAGE	REQD	REQUIRED
ALT	ALTERNATE	HWAC	HEATING, VENTILATION, AIR CONDITIONING	REQMTS	REQUIREMENTS
AWG	AMERICAN WIRE GAUGE	IDF	INTERMEDIATE DISTRIBUTION FRAME	RGR	REDUNDANT GROUND PATH
B	BARE	INCAN	INCANDESCENT	RM	ROOM
BC	BARE COPPER GROUND	ISDC	INSTANTANEOUS CIRCUIT	RECP	RECEPTACLE
BCSD	BACKSBOARD	IN	INCHES	RT	RAIN TIGHT
BRKR	BREAKER	INST	INSTANTANEOUS	SCH	SCHEDULE
BLDG	BUILDING	J	JUNCTION BOX	SEC	SECOND, SECONDARY
C	CONDUIT OR CONTRACTOR	KV	KILOVOLTS	SHT	SHEET
CAB	CABINET	KVA	KILOVOLT AMPERES	SHG	SIGNAL
CATV	CABLE TELEVISION	KW	KILOWATTS	SHS	SPECIFICATIONS
CCT	CIRCUIT	L	LINE	SW	SWITCH
CLG	CEILING	LB	ELBOW	SWD	SWITCHED
CO	CONDUIT ONLY	LF	LINEAR FEET	SP	SPRINKLE
COMM	COMMUNICATION	LOS	LOCKOUT-STOP	STD	STANDARD
CONC	CONCRETE	LOH	LOCK-OFF-HALT	STR	STRANDED
CONN	CONNECT	LVS	LOW VOLTAGE	SWBD	SWITCHBOARD
CONT	CONTINUATION OR CONTINUED	M	MOTOR	TELE	TELEPHONE
COORD	COORDINATE	MAX	MAXIMUM	TEMP	TEMPERATURE
CR	CONTROL RELAY	MCA	MINIMUM CIRCUIT AMPS	TOA	TEST OFF AUTOMATIC
CT	CURRENT TRANSFORMER	MCC	MOTOR CONTROL CENTER	TH	THERMOSTAT
COMP	COMPRESSOR	MCP	MOTOR CIRCUIT PROTECTOR	TRANSF	TRANSFORMER
CU	COPPER	MCH	MECHANICAL	TRP	TYPICAL
DC	DIRECT CURRENT	MFG	MANUFACTURER	TSP	TWISTED SHIELDED PAIR
DET	DETAIL	MIN	MINIMUM	THRU	THROUGH
DISC	DISCONNECT	MPC	MAIN POINT OF ENTRY	UG	UNDERGROUND
DIST	DISTRIBUTION	MSB	MAIN SWITCHBOARD	UNO	UNLESS NOTED OTHERWISE
DSA	DIVISION OF THE STATE ARCHITECT	N	NEUTRAL	V	VOLTS
DWG	DRAWING	EA	ELECTRICAL CONTRACTOR	VA	VOLT AMPS
(E) EXIST	EXISTING	EL	ELEVATION	VFD	VARIABLE FREQUENCY DRIVE
EC	ELECTRICAL CONTRACTOR	EM	EMERGENCY LIGHT	VM	VOLT METER
EL	ELEVATION	ELECT	ELECTRICAL	W	WIRE
EM	EMERGENCY LIGHT	EMS	ENERGY MANAGEMENT SYSTEM	WI	WITH
ELECT	ELECTRICAL	EMT	ELECTRICAL METALLIC TUBING	W/O	WITHOUT
ENG	ENERGY MANAGEMENT SYSTEM	END	END OF LINE	WP	WEATHERPROOF
EMT	ELECTRICAL METALLIC TUBING	ENCL	ENCLOSURE	WHD	WATT HOUR DEMAND METER
EQ	EQUIPMENT	EP	EXPLOSION PROOF	WM	WATT METER
ENCL	ENCLOSURE	EQUIP	EQUIPMENT	WM	WATER METER
EP	EXPLOSION PROOF	ETC	ET CETERA	XFMR	TRANSFORMER
EQ	EQUIPMENT	EVAP	EVAPORATOR	(XR)	REMOVE AND RELOCATE()
ETC	ET CETERA				
EVAP	EVAPORATOR				

ELECTRICAL COMPLIANCE NOTES

THE INTENT OF THE DRAWINGS AND SPECIFICATION IS TO CONSTRUCT THE PROPOSED BUILDING IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 22, DIVISION 7, CHAPTER 7, CALIFORNIA CODE OF REGULATIONS AND TITLE 24 -- ALL APPLICABLE PARTS OF LATEST EFFECTIVE EDITIONS.

RESPONSIBILITIES OF ARCHITECT/ENGINEER OF RECORD AND CONSULTANTS, PROJECT INSPECTOR, AND GENERAL CONTRACTOR SHALL BE IN ACCORDANCE WITH CA HEALTH AND SAFETY CODE, SECTIONS 15000-150233.

ALL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE FOLLOWING CODES AND REGULATIONS AS APPLICABLE:

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)
 PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
 2022 CALIFORNIA BUILDING CODE (CBC)
 PART 2, TITLE 24, CCR
 BASED ON THE 2020 INTERNATIONAL BUILDING CODE (IBC)
 2022 CALIFORNIA ELECTRICAL CODE (CEC)
 PART 3, TITLE 24, CCR
 BASED ON THE 2020 NATIONAL ELECTRICAL CODE (NEC)
 2022 CALIFORNIA MECHANICAL CODE (CMC)
 PART 4, TITLE 24, CCR
 BASED ON THE 2020 UNIFORM MECHANICAL CODE (UMC)
 2022 CALIFORNIA PLUMBING CODE (CPC)
 PART 5, TITLE 24, CCR
 BASED ON THE 2020 UNIFORM PLUMBING CODE (UPC)
 2022 CALIFORNIA FIRE CODE (CFC)
 PART 9, TITLE 24, CCR
 BASED ON THE 2020 INTERNATIONAL FIRE CODE (IFC)

UNLESS OTHERWISE STATED, IT IS INTENDED THAT THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IN EFFECT ON THE DATE OF THE CONTRACT. NOTHING ON THE DRAWING IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE ABOVE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

GENERAL ELECTRICAL NOTES

- PROVIDE ALL LABOR, MATERIALS, TOOLS, PLANT EQUIPMENT, TRANSPORTATION AND PERFORM ALL OPERATIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF ALL ELECTRICAL WORK REQUIRED FOR THE COMPLETE AND OPERATING SYSTEMS AS OUTLINED WITHIN THE SCOPE OF WORK.
- UNDERWRITERS LABORATORIES, INC. SHALL MEET THEIR REQUIREMENTS AND SHALL BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY.
- THE SIZE AND LOCATIONS OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE. CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION AT THE SITE.
- CONDUCTORS SHALL BE COPPER CONDUCTORS TYPE AS NOTED ON CONSTRUCTION DOCUMENTS.
- ALL REQUIRED CONDUITS SHALL BE PROVIDED BY E.C. LOW VOLTAGE WIRING SHALL BE BY MECHANICAL CONTRACTOR. LINE VOLTAGE (50 VOLTS OR MORE) SHALL BE BY ELECTRICAL CONTRACTOR.
- ALL CONDUITS SHALL BE SUPPORTED AND BRACED PER OPM NO. OPM-0043-13, THE "SEISMIC RESTRAINT GUIDELINES FOR SUSPENDED DISTRIBUTION SYSTEMS" FOR PIPES AND CONDUITS ONLY. LAYOUT DRAWINGS, SHOWING THE BRACING/SUPPORT LOCATIONS AND REFERENCES TO DETAILS FROM THE RELEVANT HCAI PRE-APPROVALS FOR PIPING/DUCTS/CONDUITS EXCEPT FIRE SPRINKLERS. NEED TO BE SUBMITTED FOR USE BY THE IOR AND HCAI STAFF. THE LAYOUT DRAWINGS NEED TO BE REVIEWED AND ACCEPTED BY THE AOR AND SEOR PRIOR TO STARTING INSTALLATION OF THE BRACING/SUPPORT. IOR SHALL ENSURE THE ABOVE REQUIREMENTS ARE SATISFIED.
- DO NOT PENETRATE STRUCTURAL MEMBERS, INCLUDING BEAMS, COLUMNS, OR FOOTINGS, WITHOUT PRIOR WRITTEN CONSENT OF THE SEOR. SHOULD IT BECOME NECESSARY TO PENETRATE SUCH MEMBERS, NOTIFY THE SEOR IN WRITING WITHOUT DELAY, PRIOR TO PROCEEDING WITH CONSTRUCTION AROUND SUCH MEMBERS.
- ALL ELECTRICAL WORK SHALL CONFORM WITH THE 2022 CALIF. ELECTRICAL CODE CALIFORNIA TITLE 17, 19 & 24 ALONG WITH N.F.P.A. STANDARDS AND THE STATE FIRE MARSHAL'S REQUIREMENTS.
- ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF STATE & GOVERNING LOCAL FIRE CODES AND BUILDING CODES.
- WHERE EXISTING CONSTRUCTION IS CUT, DAMAGED, OR REMODELED, PATCH WITH MATERIALS TO MATCH IN KIND, QUALITY, AND PERFORMANCE.
- WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO PUBLIC AND TO OCCUPANTS OF EXISTING BUILDING.
- CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE, IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
- CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION.
- CONTRACTOR TO COORDINATE WITH OWNERS VENDORS (SUCH AS, BUT NOT LIMITED TO: SECURITY, PHONES, DATA, CLOSED CIRCUIT T.V., ETC.) AND ALLOW ACCESS TO THE CONSTRUCTION SITE.
- ALL CONDUIT SHALL BE TYPE EMT CONDUIT WITH COMPRESSION TYPE FITTINGS UNLESS OTHERWISE NOTED. TYPE MC CABLE SHALL NOT BE USED UNLESS SPECIFICALLY NOTED ON THE CONSTRUCTION DOCUMENTS. CONDUITS SHALL BE MINIMUM 3/4" TRADE SIZE, UNLESS OTHERWISE NOTED. ALL CONDUCTORS SHALL BE MINIMUM #12 SOLID COPPER, TYPE THWN, UNLESS OTHERWISE NOTED. CONDUCTORS SIZES #8 AND LARGER MAY BE STRANDED COPPER, TYPE THWN.
- OPERATED DEVICES SUCH AS, BUT NOT LIMITED TO, TELE/DATA OUTLETS, RECEPTACLE OUTLETS AND LIGHT SWITCHES INSTALLED IN AREAS NOT RESTRICTED TO AUTHORIZED MAINTENANCE PERSONAL SHALL BE MOUNTED AT A MINIMUM OF +15" AFF., AS MEASURED FROM THE BOTTOM OF THE DEVICE OUTLET BOX, AND MAXIMUM OF +44" AFF., AS MEASURED FROM THE TOP OF THE DEVICE OUTLET BOX.
- ALL CHANGE ORDER PROPOSALS AND CHANGE ORDERS, BOTH ADDITIVE AND DEDUCTIVE, SHALL BE BASED UPON AND BE ACCOMPANIED BY A DETAILED MATERIALS AND LABOR BREAKDOWN FOR EACH SPECIFIC TASK AND/OR ITEM. THE BREAKDOWN SHALL INCLUDE ACTUAL MATERIALS COSTS PLUS OVERHEAD AND PROFIT, AS WELL AS LABOR UNITS BASE UPON THE MOST RECENT NECA MANUAL OF LABOR UNITS (NECA INDEX #4090) OR EQUIVALENT PUBLICATION FOR EACH SPECIFIC TASK AND ITEM. LABOR COSTS SHALL BE COMPUTED AS OUTLINED WITHIN THE GENERAL CONDITIONS, BASED UPON THE NECA LABOR TABLES FOR EACH TASK REQUIRED. MATERIALS COSTS SHALL INCLUDE ACTUAL CONTRACTOR INVOICE PLUS NO MORE THAN 15% MARKUP. THE OWNER AND CONTRACTOR AGREE TO THE ABOVE CHANGE ORDER COST PROCEDURE, FOR BOTH ADDITIVE AND DEDUCTIVE CHANGE ORDERS.
- ALL PERSONNEL WORKING WITH ENERGIZED EQUIPMENT WITHIN THE RESTRICTED ZONE PER NFPA-70E SHALL COMPLY WITH ALL NFPA-70E AND OSHA REQUIREMENTS AND BE ARC FLASH SAFETY CERTIFIED.
- PROVIDE PERMANENTLY AFFIXED BRANCH CIRCUIT LABEL AT ALL RECEPTACLE & LIGHT SWITCH COVER PLATES, EQUIPMENT DISCONNECTS, AND ALL OTHER ENERGIZED HARDWIRED DEVICES IN PROJECT AREA. LABELS SHALL IDENTIFY SOURCE DISTRIBUTION PANEL AND CIRCUIT NUMBER. ALL DEVICES SHALL BE LABELED IN A CONSISTENT MANNER.

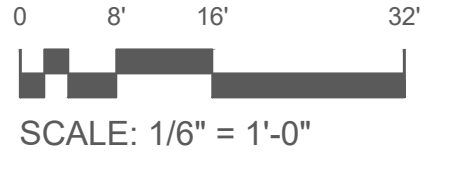
24 FRAZINE ROAD, STE D
 MODESTO, CALIFORNIA 95357
 T:209-447-0040 MAIL@UNITYDGG.COM

PERMIT SET

DATE:	March 25, 2024
DRAWN:	Chris Wells
CHECKED:	cw
REVISIONS:	BY
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ELECTRICAL NOTES AND ABBREVIATIONS
FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III
 FRUITLAND AVE
 ATWATER, CA

DRAWN BY:	Chris Wells
CHECK BY:	CW
SCALE:	AS SHOWN
DATE:	MARCH 23, 2024
JOB:	23-176
SHEET NO.	E0.0



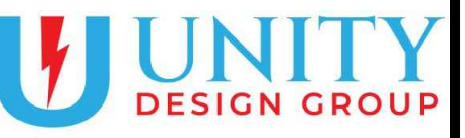
03/25/24 3:14:27 PM F:\2023\176 FRUITLAND AVE RECONSTRUCTION\ORDERS\NEW SHEET SETS\SHEETS\ELECTRICAL NOTES AND ABBR.DWG cwwells

CITY POLICIES - STANDARD "SL-4"

1. TEMPORARY LIGHTING - WHERE VANDALISM MAY BE PREVALENT DURING CONSTRUCTION WORK, THE DEVELOPER MAY ARRANGE TO PAY THE ENERGY CHARGES FOR SHORT TERM LIGHTING SERVICE ON A FLAT RATE PER MONTH PER LAMINAR BASIS. ARRANGEMENTS MAY BE MADE THROUGH THE CITY ENGINEER'S OFFICE.
2. PARTIALLY COMPLETED STREET LIGHTING SYSTEMS WITHIN A SUBDIVISION WILL NOT BE ACCEPTED BY THE CITY FOR MAINTENANCE UNTIL FULL IMPROVEMENTS HAVE BEEN COMPLETED. THE DEVELOPER WILL BE RESPONSIBLE TO MAINTAIN THE LIGHTING SYSTEM UNTIL ACCEPTANCE BY THE CITY.
3. THE CITY WILL ASSUME ENERGY COST FOR LIGHTING ONLY AFTER RESIDENCES OR BUILDINGS HAVE BEEN GREEN TAGGED AND ARE READY FOR OCCUPANCY, OR AS MAY BE DETERMINED BY THE CITY ENGINEER AS BEING IN THE BEST INTEREST OF THE GENERAL PUBLIC.
4. EQUIPMENT SUBMITTALS - SUBMITTALS WILL BE REQUIRED FOR ALL STREET LIGHTING ON PUBLIC PROPERTY. NO CONSTRUCTION WILL BE PERMITTED UNTIL SUBMITTALS HAVE BEEN APPROVED BY THE CITY ENGINEERING DEPARTMENT.
5. SPECIAL LIGHTING APPLICATIONS - LIGHTING APPLICATIONS IN UNCLASSIFIED AREAS OR THE USE OF MIXED STANDARDS SHALL HAVE PRIOR CONCEPT APPROVAL. CONSULT THE CITY ENGINEERING DEPARTMENT.
6. DEVELOPER'S RESPONSIBILITY - IT SHALL BE THE DEVELOPER'S RESPONSIBILITY TO FULLY COMPLY WITH PG&E COMPANY'S REQUIREMENTS AND TO PAY ALL CONNECTION FEES AND SERVICE CHARGES IMPOSED AND TO EXTEND ALL STREET LIGHTING SERVICE CONDUCTORS TO SERVING POINTS AS WILL BE INDICATED BY PG&E COMPANY ON THERE ELECTRICAL DISTRIBUTION DRAWINGS. PG&E COMPANY MUST RECEIVE FINAL COPIES OF THE IMPROVEMENTS PLANS BEARING THE SIGNATURE OF THE CITY ENGINEER BEFORE THEY CAN FINALIZE THEIR DISTRIBUTION DRAWINGS.
7. ANY CIRCUIT OR EQUIPMENT FOUND TO BE MALFUNCTIONING AFTER BEING ENERGIZED SHALL BE CORRECTED BY THE CONTRACTOR WITHIN 10 WORKING DAYS AFTER RECEIVING WRITTEN NOTICE FROM THE THE CITY. THIS ORDER SHALL REMAIN IN FORCE UNTIL FINAL ACCEPTANCE BY THE CITY.

GENERAL REQUIREMENTS "SL-3"

1. ALL CIRCUITS SHALL BE UNDERGROUND USING #8 COPPER THN-TW CONDUCTORS IN A 1" MINIMUM SCHEDULE 40 PVC CONDUIT TO A SECONDARY SPLICE BOX AS SPECIFIED BY PG&E COMPANY. CONDUITS IN STREET SECTION SHALL BE 1-1/2" RIGID CONDUIT.
2. CONDUITS BETWEEN STREETLIGHT POLES AND PG&E SECONDARY SPLICE BOX SHALL ENTER SPLICE BOX AT KNOCK OUT OPENINGS HAVING EXISTING CABLES OR CONDUITS INSTALLED BY PG&E. NO SEPARATE ENTRANCES OR KNOCKOUTS WILL BE ALLOWED TO BE MADE BY THE CONTRACTOR.
3. CONDUCTORS FOR EXTENDED CIRCUITS SHALL BE SIZED TO REDUCE VOLTAGE DROP TO A MAXIMUM OF 5 PERCENT FROM NORMAL.
4. FEEDER CONDUCTORS IN POLE BASE SHALL HAVE A MINIMUM OF 2 FEET OF SLACK BETWEEN FUSE HOLDER AND CONDUIT.
5. CONDUCTORS FROM FUSE HOLDER TO LAMP BALLAST / DRIVER SHALL BE #12 STRANDED COPPER WITH A MINIMUM OF 2 FEET OF SLACK.
6. FUSE HOLDER SHALL BE ACCESSIBLE FROM HANDHOLE AND SHALL BE TWO-POLE, WATERPROOF IN THE LINE TYPE.
7. SPLICING AND INSULATION SHALL CONFORM TO METHOD "B", SHEET ES-13 OF THE CURRENT STATE STANDARD PLANS.
8. PULL BOX - WHERE REQUIRED SHALL CONFROM TO SHEET ES-8 OF THE CURRENT STATE STANDARD PLANS.
9. MINIMUM COVER FOR CONDUIT UNDER OR BEHIND SIDEWALK, CURB OR IN PARKWAY SHALL BE 2 FEET, CONDUIT IN SIDE OR BACK LOT PROPERTY EASEMENTS 3 FEET, CONDUIT IN STREET SECTION 2 FEET 6 INCHES.
10. THE CONTRACTOR SHALL FURNISH THE CITY A MARKED UP DRAWINGS SHOWING AS BUILT CONDUIT RUN AND SPLICE BOX LOCATIONS.



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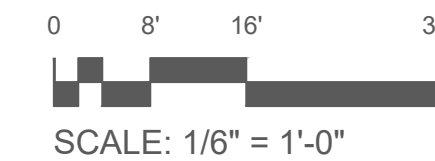
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DATE:	March 25, 2024
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CHECKED:	cw
REVISIONS:	
	BY
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CITY OF ATWATER GENERAL NOTES
FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III
FRUITLAND AVE
ATWATER, CA

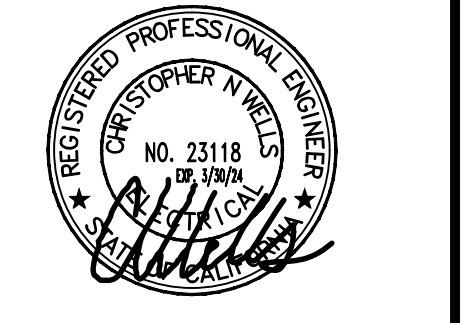


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SCALE:	AS SHOWN
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JOB:	23-176
SHEET NO.	E1.0



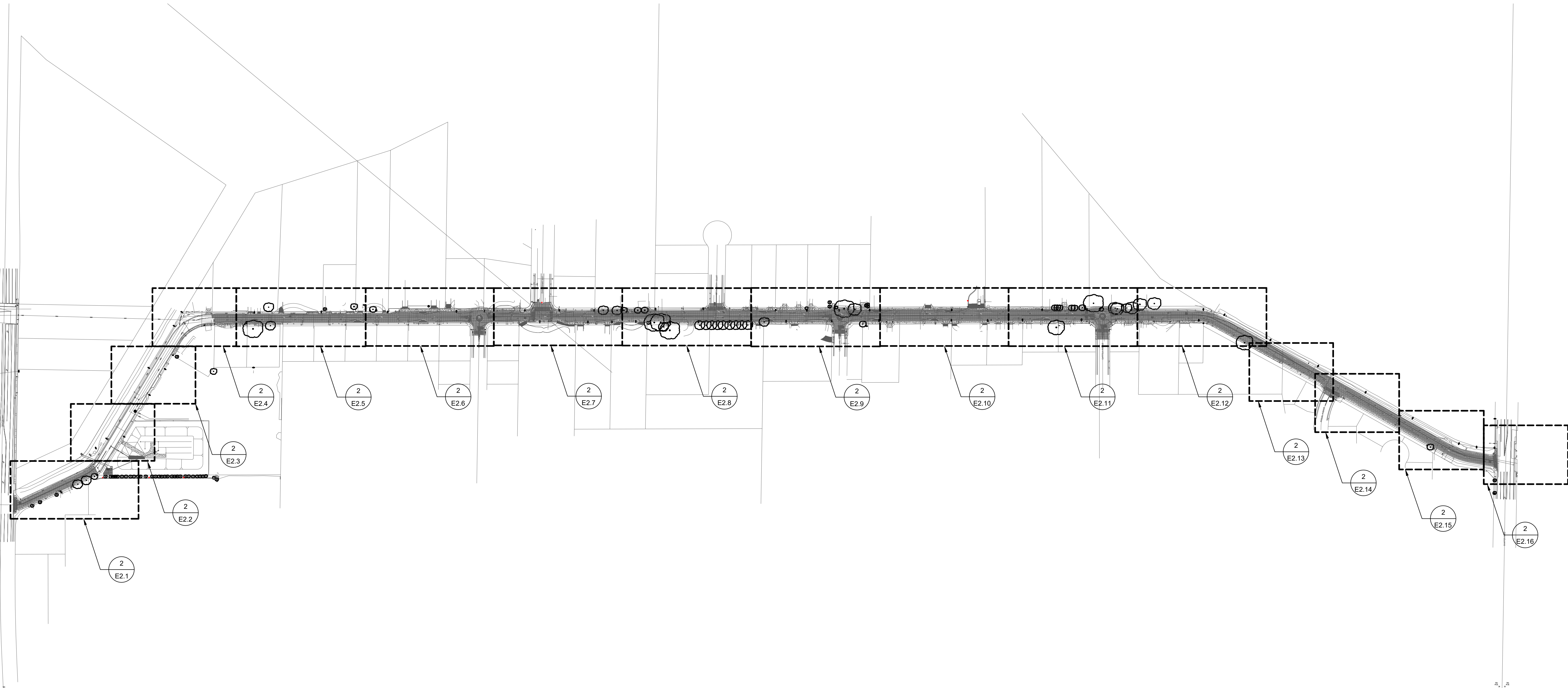
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DATE:	March 25, 2024
DRAWN:	Chris Wells
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REVISIONS:	BY
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SITE PLAN
FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III
 FRUITLAND AVE
 ATWATER, CA

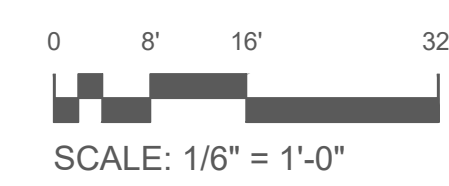


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CHECK BY:	CW
SCALE:	AS SHOWN
DATE:	MARCH 23, 2024
JOB:	23-176

SHEET NO.
E2.0
64 OF 83 SHEETS



1 SITE PLAN
SCALE: 1"=180'



PERMIT SET

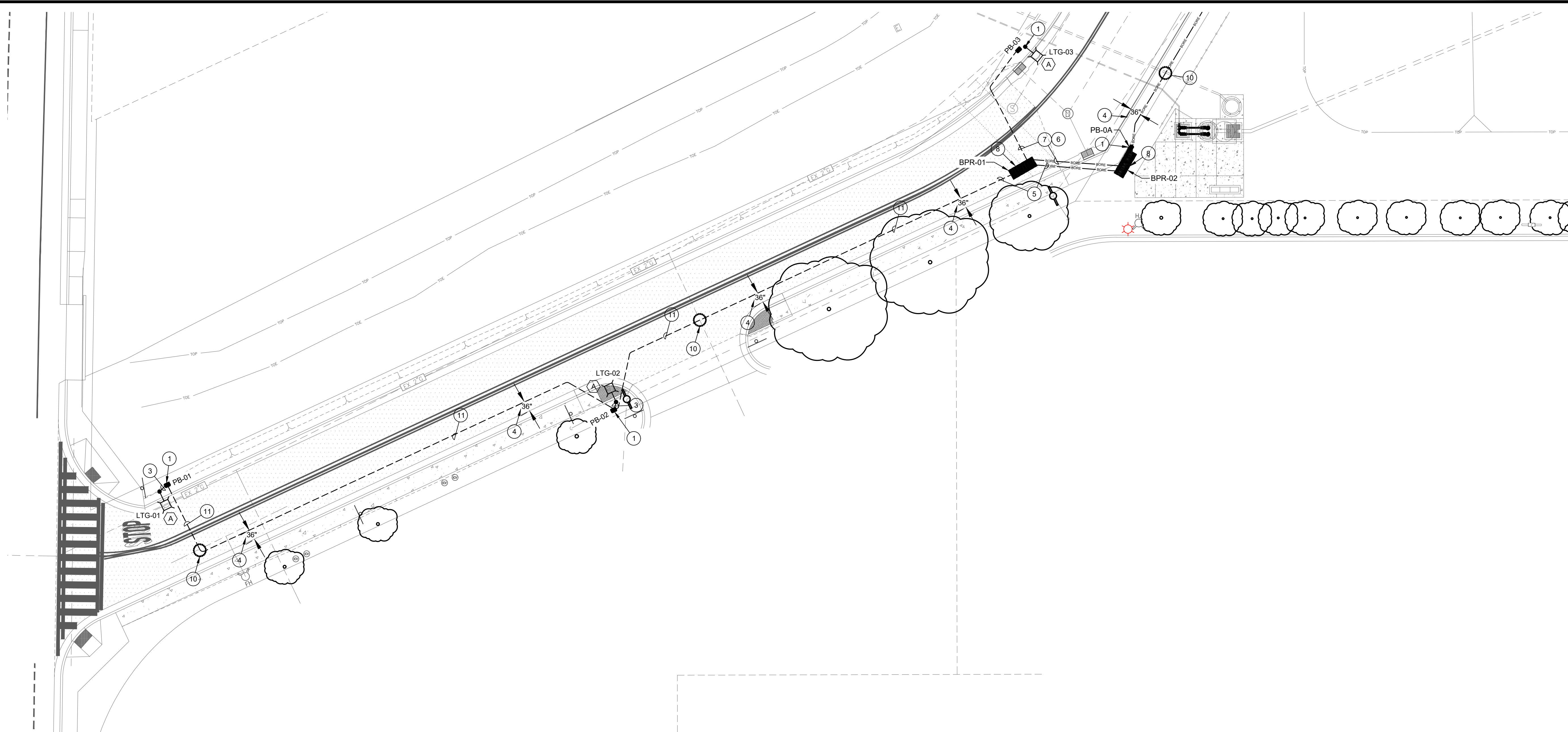
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FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III
 FRUITLAND AVE
 ATWATER, CA

PROPOSED LIGHTING PLAN - AREA 1



DRAWN BY:	Chris Wells
CHECK BY:	CW
SCALE:	AS SHOWN
DATE:	MARCH 23, 2024
JOB:	23-176
SHEET NO.:	E2.1



1 PROPOSED LIGHTING PLAN - AREA 1
SCALE: 1/16"=1'-0"

PLAN NOTES:

- | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> 1. PROVIDE (1) PULL BOX PER DETAIL 5 ON SHEET E3.0 AT THE BASE OF EACH POLE. UPON INSTALLATION OF CONDUCTORS AND SPLICING CONTRACTOR SHALL FILL BOX PER DETAIL #2 ON SHEET E3.0. PROVIDE BOX EXTENSIONS AS NEEDED. 2. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #3 3. PROVIDE (1) 1" C WITH (2) #12 CU THWN AND (1) #12 CU GND FROM PULL BOX TO POLE. PROVIDE 24" OF SLACK IN PULL BOX AND BOTH SIDES OF THE REQUIRED FUSE HOLDER. 4. PROVIDE 36" OF CLEARANCE OF ANY CURB (NEW/EXISTING) FOR NEW CONDUITS. 5. EXTEND CONDUIT FROM TRENCH VIA BORE WITH MATCHING CONDUIT AND CONDUCTOR SIZES. 6. NOTE NOT USED. 7. EXTEND BORE CONDUIT VIA TRENCHED CONDUIT. MATCH SIZE OF CONDUIT AND CONDUCTOR. 8. PROVIDE BORE/RECEIVING PIT 9. MAINTAIN 48" CLEARANCE FROM ANY/ALL UTILITY POLES. 10. POTHOLE EXISTING UTILITIES. 11. PROVIDE 1-1/2" C WITH (2) #4 CU THWN AND (1) #10 CU GND. 12. EXTEND EXISTING CIRCUIT TO NEW PULL BOX TO PROVIDE CIRCUIT TO NEW FIXTURES. CONTRACTOR SHALL REMOVE LIGHT/REINSTALL EXISTING FIXTURE AS NEEDED FOR INSTALLATION. 13. REMOVE/REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW PULL BOX AND CONDUITS. 14. EXISTING STREET LIGHT TO REMAIN. SHOWN FOR REFERENCE. 15. REMOVE AND REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW FEEDER. 16. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #1 17. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #2 18. CONTRACTOR SHALL MAINTAIN 24" OF SEPARATION FROM WATER LINE MINIMUM. ANY ADDITIONAL DISTANCE SHALL BE SPLIT BETWEEN THE FRONT OF THE GUTTER AND WATER PIPE EQUALLY. PROVIDE MINIMUM 24" CLEARANCE FROM WATER LINE. DRAWING SHOWN WITH 36" SEPARATION. | <ol style="list-style-type: none"> 20. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #4 21. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #5 22. CONDUIT SHALL BE 24" OFF OF BACK OF SIDEWALK WHERE POSSIBLE. |
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GENERAL NOTES:

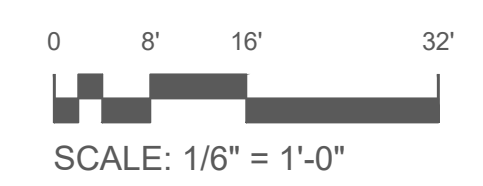
1. FIXTURE TYPE (A) TO BE MOUNTED AT 28' HEIGHT ON POLE. PROVIDE POLE AND FIXTURE PER DETAIL.
2. FIXTURE TYPE (B) IS EXISTING TO REMAIN.
3. BORE LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. CONFIRM EXACT LOCATIONS WITH CITY INSPECTOR PRIOR TO BORING
4. OPEN TRENCH MAY BE REPLACED WITH BORING AS APPROVED BY THE CITY INSPECTOR. NO ADJUSTMENT IN PAYMENT WILL BE PROVIDED FOR SUBSTITUTION OF OPEN CUT TRENCH FOR BORING METHOD AND VICE VERSA.
5. PULL BOX LOCATIONS ARE TO BE DETERMINED IN THE FIELD. ALL PULL BOXES SHALL BE LOCATED ON CITY PROPERTY OR EASEMENTS. NOTE PULL BOXES ARE SHOWN FOR SCHEMATIC PURPOSES AND SHOWN IN APPROXIMATE LOCATIONS.
6. ALL BORED CONDUITS SHALL BE MINIMUM 12" BELOW EXISTING UTILITIES.

LIGHTING FIXTURE SCHEDULE

DESIG.	SYMBOL	LAMP	DESCRIPTION	MANUFACTURER
(A)		LED	GCJ2-30J-MV-40K-2R-GY-070-PCR7-CR-WL-RWG-BBL-DSC 28' MOUNTING HEIGHT	LEOTEK
(B)		LED	EXISTING FIXTURES TO REMAIN.	N/A BY OTHERS

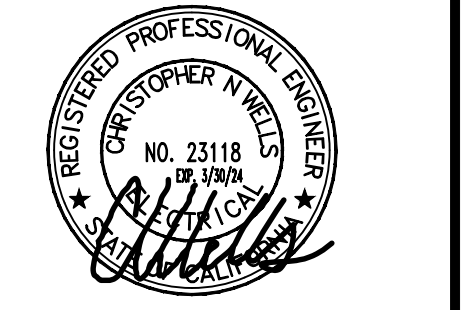
UNDERGROUND SCHEDULE

	BORE/RECEIVING PIT LOCATIONS. LOCATIONS ARE APPROXIMATE LOCATIONS AND TO BE DETERMINED IN THE FIELD. WORK WITH INSPECTOR AS NEEDED.
	CONDUIT IN THIS SECTION SHALL BE BORED.
	CONDUIT TO BE INSTALLED VIA OPEN TRENCH.
	LOCATE EXISTING UTILITIES VIA POTHOLE PRIOR TO TRENCHING/BORING.

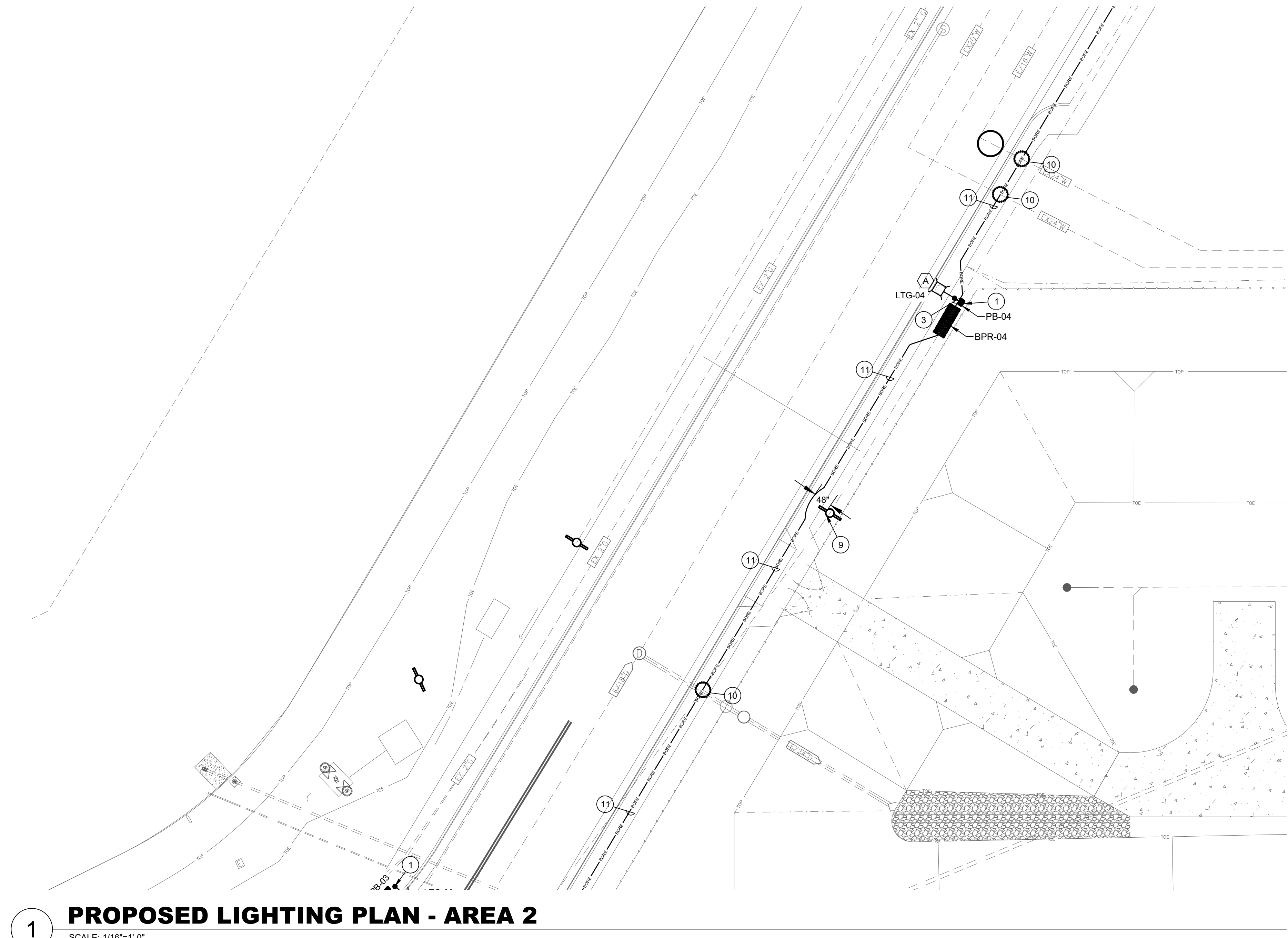


PERMIT SET	
DATE:	March 25, 2024
DRAWN:	Chris Wells
CHECKED:	cw
REVISIONS:	BY
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FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III
 FRUITLAND AVE
 ATWATER, CA



DRAWN BY:	Chris Wells
CHECK BY:	CW
SCALE:	AS SHOWN
DATE:	MARCH 23, 2024
JOB:	23-176
SHEET NO.	E2.2
	66 OF 83 SHEETS



1 PROPOSED LIGHTING PLAN - AREA 2
SCALE: 1/16"=1'-0"

PLAN NOTES:

- PROVIDE (1) PULL BOX PER DETAIL 5 ON SHEET E3.0 AT THE BASE OF EACH POLE. UPON INSTALLATION OF CONDUCTORS AND SPLICING CONTRACTOR SHALL FILL BOX PER DETAIL #2 ON SHEET E3.0. PROVIDE BOX EXTENSIONS AS NEEDED.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #3
- PROVIDE (1) 1" C WITH (2) #12 CU THWN AND (1) #12 CU GND FROM PULL BOX TO POLE. PROVIDE 24" OF SLACK IN PULL BOX AND BOTH SIDES OF THE REQUIRED FUSE HOLDER.
- PROVIDE 36" OF CLEARANCE OF ANY CURB (NEW/EXISTING) FOR NEW CONDUITS.
- EXTEND CONDUIT FROM TRENCH VIA BORE WITH MATCHING CONDUIT AND CONDUCTOR SIZES.
- NOTE NOT USED.
- EXTEND BORE CONDUIT VIA TRENCHED CONDUIT. MATCH SIZE OF CONDUIT AND CONDUCTOR.
- PROVIDE BORE/RECEIVING PIT
- MAINTAIN 48" CLEARANCE FROM ANY/ALL UTILITY POLES.
- POTHOLE EXISTING UTILITIES.
- PROVIDE 1-1/2" C WITH (2) #4 CU THWN AND (1) #10 CU GND.
- EXTEND EXISTING CIRCUIT TO NEW PULL BOX TO PROVIDE CIRCUIT TO NEW FIXTURES. CONTRACTOR SHALL REMOVE LIGHT/REINSTALL EXISTING FIXTURE AS NEEDED FOR INSTALLATION.
- REMOVE/REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW PULL BOX AND CONDUITS.
- EXISTING STREET LIGHT TO REMAIN. SHOWN FOR REFERENCE.
- REMOVE AND REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW FEEDER.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #1
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #2
- CONTRACTOR SHALL MAINTAIN 24" OF SEPARATION FROM WATER LINE MINIMUM. ANY ADDITIONAL DISTANCE SHALL BE SPLIT BETWEEN THE FRONT OF THE GUTTER AND WATER PIPE EQUALLY. PROVIDE MINIMUM 24" CLEARANCE FROM WATER LINE. DRAWING SHOWN WITH 36" SEPARATION.

- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #4
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #5
- CONDUIT SHALL BE 24" OFF OF BACK OF SIDEWALK WHERE POSSIBLE.

GENERAL NOTES:

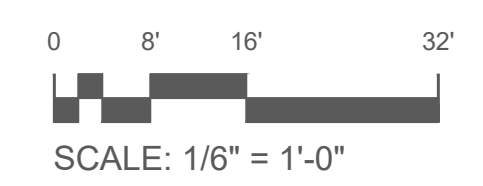
- FIXTURE TYPE (A) TO BE MOUNTED AT 28' HEIGHT ON POLE. PROVIDE POLE AND FIXTURE PER DETAIL.
- FIXTURE TYPE (B) IS EXISTING TO REMAIN.
- BORE LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. CONFIRM EXACT LOCATIONS WITH CITY INSPECTOR PRIOR TO BORING
- OPEN TRENCH MAY BE REPLACED WITH BORING AS APPROVED BY THE CITY INSPECTOR. NO ADJUSTMENT IN PAYMENT WILL BE PROVIDED FOR SUBSTITUTION OF OPEN CUT TRENCH FOR BORING METHOD AND VICE VERSA.
- PULL BOX LOCATIONS ARE TO BE DETERMINED IN THE FIELD. ALL PULL BOXES SHALL BE LOCATED ON CITY PROPERTY OR EASEMENTS. NOTE PULL BOXES ARE SHOWN FOR SCHEMATIC PURPOSES AND SHOWN IN APPROXIMATE LOCATIONS.
- ALL BORED CONDUITS SHALL BE MINIMUM 12" BELOW EXISTING UTILITIES.

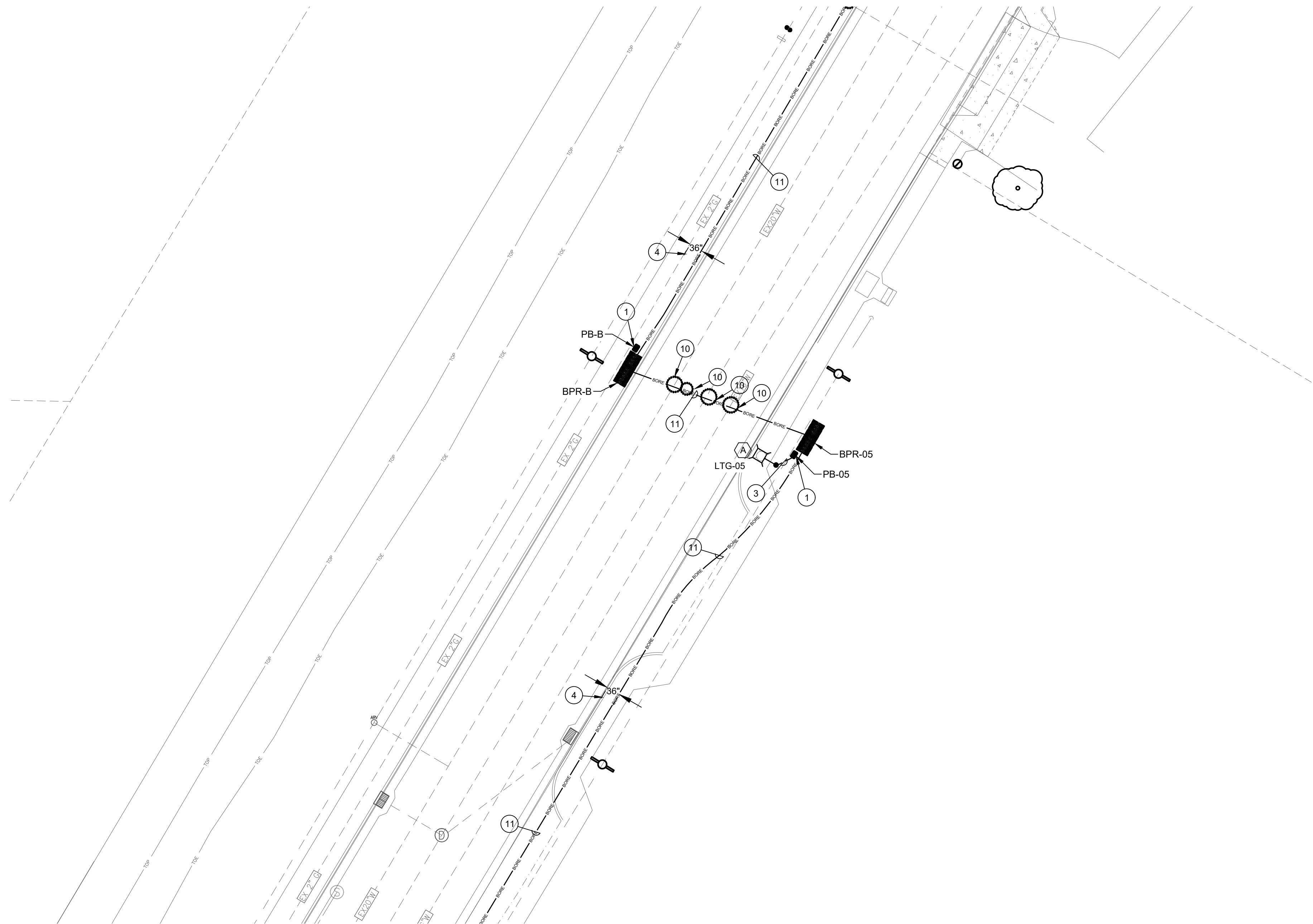
LIGHTING FIXTURE SCHEDULE

DESIG.	SYMBOL	LAMP	DESCRIPTION	MANUFACTURER
(A)		LED	GCJ2-30J-MV-40K-2R-GY-070-PCR7-CR-WL-RWG-BBL-DSC 28' MOUNTING HEIGHT	LEOTEK
(B)		LED	EXISTING FIXTURES TO REMAIN.	N/A BY OTHERS

UNDERGROUND SCHEDULE

	BORE/RECEIVING PIT LOCATIONS. LOCATIONS ARE APPROXIMATE LOCATIONS AND TO BE DETERMINED IN THE FIELD. WORK WITH INSPECTOR AS NEEDED.
	CONDUIT IN THIS SECTION SHALL BE BORED.
	CONDUIT TO BE INSTALLED VIA OPEN TRENCH.
	LOCATE EXISTING UTILITIES VIA POTHOLE PRIOR TO TRENCHING/BORING.





1 PROPOSED LIGHTING PLAN - AREA 3
SCALE: 1/16"=1'-0"

PLAN NOTES:

1. PROVIDE (1) PULL BOX PER DETAIL 5 ON SHEET E3.0 AT THE BASE OF EACH POLE. UPON INSTALLATION OF CONDUCTORS AND SPlicing CONTRACTOR SHALL FILL BOX PER DETAIL #2 ON SHEET E3.0. PROVIDE BOX EXTENSIONS AS NEEDED.
2. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #3
3. PROVIDE (1) 1" C WITH (2) #12 CU THWN AND (1) #12 CU GND FROM PULL BOX TO POLE. PROVIDE 24" OF SLACK IN PULL BOX AND BOTH SIDES OF THE REQUIRED FUSE HOLDER.
4. PROVIDE 36" OF CLEARANCE OF ANY CURB (NEW/EXISTING) FOR NEW CONDUITS.
5. EXTEND CONDUIT FROM TRENCH VIA BORE WITH MATCHING CONDUIT AND CONDUCTOR SIZES.
6. NOTE NOT USED.
7. EXTEND BORE CONDUIT VIA TRENCHED CONDUIT. MATCH SIZE OF CONDUIT AND CONDUCTOR.
8. PROVIDE BORE/RECEIVING PIT
9. MAINTAIN 48" CLEARANCE FROM ANY/ALL UTILITY POLES.
10. POT HOLE EXISTING UTILITIES.
11. PROVIDE 1-1/2" C WITH (2) #4 CU THWN AND (1) #10 CU GND.
12. EXTEND EXISTING CIRCUIT TO NEW PULL BOX TO PROVIDE CIRCUIT TO NEW FIXTURES. CONTRACTOR SHALL REMOVE LIGHT/REINSTALL EXISTING FIXTURE AS NEEDED FOR INSTALLATION.
13. REMOVE/REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW PULL BOX AND CONDUITS.
14. EXISTING STREET LIGHT TO REMAIN. SHOWN FOR REFERENCE.
15. REMOVE AND REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW FEEDER.
16. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #1
17. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #2
18. CONTRACTOR SHALL MAINTAIN 24" OF SEPARATION FROM WATER LINE MINIMUM. ANY ADDITIONAL DISTANCE SHALL BE SPLIT BETWEEN THE FRONT OF THE GUTTER AND WATER PIPE EQUALLY.
19. PROVIDE MINIMUM 24" CLEARANCE FROM WATER LINE. DRAWING SHOWN WITH 36" SEPARATION.
20. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #4
21. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #5
22. CONDUIT SHALL BE 24" OFF OF BACK OF SIDEWALK WHERE POSSIBLE.

GENERAL NOTES:

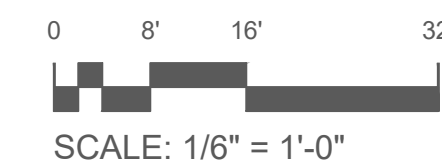
1. FIXTURE TYPE (A) TO BE MOUNTED AT 28' HEIGHT ON POLE. PROVIDE POLE AND FIXTURE PER DETAIL.
2. FIXTURE TYPE (B) IS EXISTING TO REMAIN.
3. BORE LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. CONFIRM EXACT LOCATIONS WITH CITY INSPECTOR PRIOR TO BORING
4. OPEN TRENCH MAY BE REPLACED WITH BORING AS APPROVED BY THE CITY INSPECTOR. NO ADJUSTMENT IN PAYMENT WILL BE PROVIDED FOR SUBSTITUTION OF OPEN CUT TRENCH FOR BORING METHOD AND VICE VERSA.
5. PULL BOX LOCATIONS ARE TO BE DETERMINED IN THE FIELD. ALL PULL BOXES SHALL BE LOCATED ON CITY PROPERTY OR EASEMENTS. NOTE PULL BOXES ARE SHOWN FOR SCHEMATIC PURPOSES AND SHOWN IN APPROXIMATE LOCATIONS.
6. ALL BORED CONDUITS SHALL BE MINIMUM 12" BELOW EXISTING UTILITIES.

LIGHTING FIXTURE SCHEDULE

DESIG.	SYMBOL	LAMP	DESCRIPTION	MANUFACTURER
(A)		LED	GCJ2-30J-MV-40K-2R-GY-070-PCR7-CR-WL-RWG-BBL-DSC 28' MOUNTING HEIGHT	LEOTEK
(B)		LED	EXISTING FIXTURES TO REMAIN.	N/A BY OTHERS

UNDERGROUND SCHEDULE

	BORE/RECEIVING PIT LOCATIONS. LOCATIONS ARE APPROXIMATE LOCATIONS AND TO BE DETERMINED IN THE FIELD. WORK WITH INSPECTOR AS NEEDED.
	CONDUIT IN THIS SECTION SHALL BE BORED.
	CONDUIT TO BE INSTALLED VIA OPEN TRENCH.
	LOCATE EXISTING UTILITIES VIA POT HOLE PRIOR TO TRENCHING/BORING.



Know what's below.
Call before you dig.

PERMIT SET

DATE:	March 25, 2024
DRAWN:	Chris Wells
CHECKED:	cw
REVISIONS:	BY
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**FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III**
FRUITLAND AVE
ATWATER, CA

PROPOSED LIGHTING PLAN - AREA 3

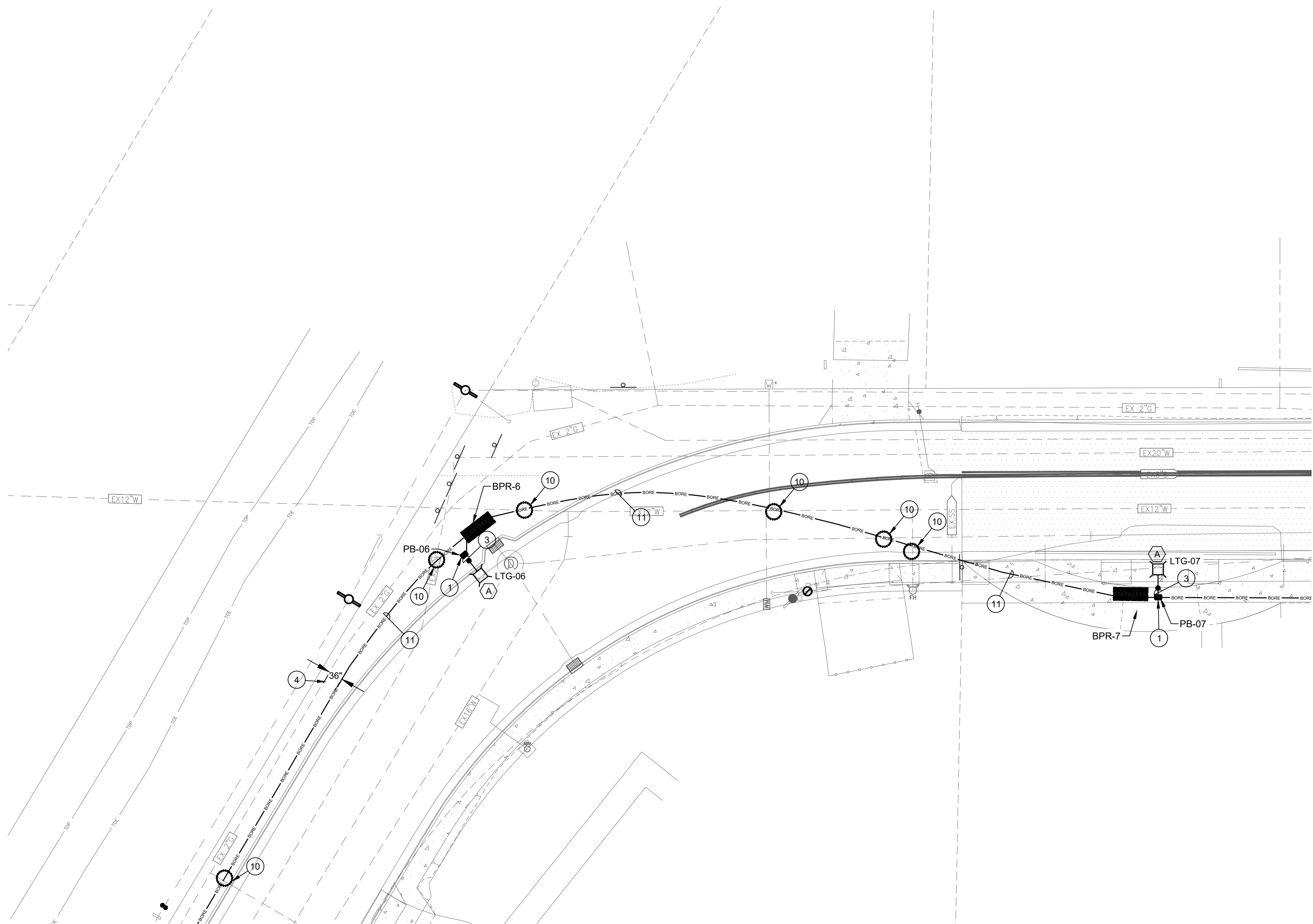


DRAWN BY:	Chris Wells
CHECK BY:	CW
SCALE:	AS SHOWN
DATE:	MARCH 23, 2024
JOB:	23-176

SHEET NO. **E2.3**
67 OF 83 SHEETS

PERMIT SET

DATE:	March 25, 2024
DRAWN:	Chris Wells
CHECKED:	cw
REVISIONS:	BY
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1 PROPOSED LIGHTING PLAN - AREA 4
SCALE: 1/16"=1'-0"

PLAN NOTES:

- PROVIDE (1) PULL BOX PER DETAIL 5 ON SHEET E3.0 AT THE BASE OF EACH POLE. UPON INSTALLATION OF CONDUCTORS AND SPLICING CONTRACTOR SHALL FILL BOX PER DETAIL #2 ON SHEET E3.0. PROVIDE BOX EXTENSIONS AS NEEDED.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #3
- PROVIDE (1) 1" C WITH (2) #12 CU THWN AND (1) #12 CU GND FROM PULL BOX TO POLE. PROVIDE 24" OF SLACK IN PULL BOX AND BOTH SIDES OF THE REQUIRED FUSE HOLDER.
- PROVIDE 36" OF CLEARANCE OF ANY CURB (NEW/EXISTING) FOR NEW CONDUITS.
- EXTEND CONDUIT FROM TRENCH VIA BORE WITH MATCHING CONDUIT AND CONDUCTOR SIZES.
- NOTE NOT USED.
- EXTEND BORE CONDUIT VIA TRENCHED CONDUIT. MATCH SIZE OF CONDUIT AND CONDUCTOR.
- PROVIDE BORE/RECEIVING PIT
- MAINTAIN 48" CLEARANCE FROM ANY/ALL UTILITY POLES.
- POTHOLE EXISTING UTILITIES.
- PROVIDE 1-1/2" C WITH (2) #4 CU THWN AND (1) #10 CU GND.
- EXTEND EXISTING CIRCUIT TO NEW PULL BOX TO PROVIDE CIRCUIT TO NEW FIXTURES. CONTRACTOR SHALL REMOVE LIGHT/REINSTALL EXISTING FIXTURE AS NEEDED FOR INSTALLATION.
- REMOVE/REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW PULL BOX AND CONDUITS.
- EXISTING STREET LIGHT TO REMAIN. SHOWN FOR REFERENCE.
- REMOVE AND REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW FEEDER.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #1
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #2
- CONTRACTOR SHALL MAINTAIN 24" OF SEPARATION FROM WATER LINE MINIMUM. ANY ADDITIONAL DISTANCE SHALL BE SPLIT BETWEEN THE FRONT OF THE GUTTER AND WATER PIPE EQUALLY.
- PROVIDE MINIMUM 24" CLEARANCE FROM WATER LINE. DRAWING SHOWN WITH 36" SEPARATION.

- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #4
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #5
- CONDUIT SHALL BE 24" OFF OF BACK OF SIDEWALK WHERE POSSIBLE.

GENERAL NOTES:

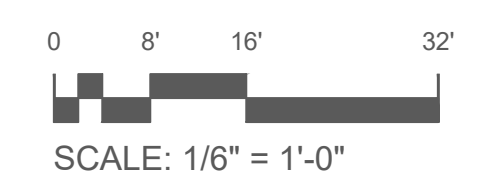
- FIXTURE TYPE (A) TO BE MOUNTED AT 28' HEIGHT ON POLE. PROVIDE POLE AND FIXTURE PER DETAIL.
- FIXTURE TYPE (B) IS EXISTING TO REMAIN.
- BORE LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. CONFIRM EXACT LOCATIONS WITH CITY INSPECTOR PRIOR TO BORING
- OPEN TRENCH MAY BE REPLACED WITH BORING AS APPROVED BY THE CITY INSPECTOR. NO ADJUSTMENT IN PAYMENT WILL BE PROVIDED FOR SUBSTITUTION OF OPEN CUT TRENCH FOR BORING METHOD AND VICE VERSA.
- PULL BOX LOCATIONS ARE TO BE DETERMINED IN THE FIELD. ALL PULL BOXES SHALL BE LOCATED ON CITY PROPERTY OR EASEMENTS. NOTE PULL BOXES ARE SHOWN FOR SCHEMATIC PURPOSES AND SHOWN IN APPROXIMATE LOCATIONS.
- ALL BORED CONDUITS SHALL BE MINIMUM 12" BELOW EXISTING UTILITIES.

LIGHTING FIXTURE SCHEDULE

DESIG.	SYMBOL	LAMP	DESCRIPTION	MANUFACTURER
(A)		LED	GCJ2-30J-MV-40K-2R-GY-070-PCR7-CR-WL-RWG-BBL-DSC 28' MOUNTING HEIGHT	LEOTEK
(B)		LED	EXISTING FIXTURES TO REMAIN.	N/A BY OTHERS

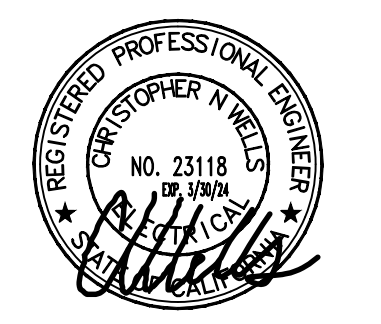
UNDERGROUND SCHEDULE

	BORE/RECEIVING PIT LOCATIONS. LOCATIONS ARE APPROXIMATE LOCATIONS AND TO BE DETERMINED IN THE FIELD. WORK WITH INSPECTOR AS NEEDED.
	CONDUIT IN THIS SECTION SHALL BE BORED.
	CONDUIT TO BE INSTALLED VIA OPEN TRENCH.
	LOCATE EXISTING UTILITIES VIA POTHOLE PRIOR TO TRENCHING/BORING.



FRUITLAND AVE RECONSTRUCTION PROJECT PHASE III
FRUITLAND AVE
ATWATER, CA

PROPOSED LIGHTING PLAN - AREA 4



DRAWN BY:	Chris Wells
CHECK BY:	cw
SCALE:	AS SHOWN
DATE:	MARCH 23, 2024
JOB:	23-176

PERMIT SET

DATE: March 25, 2024

DRAWN: Chris Wells

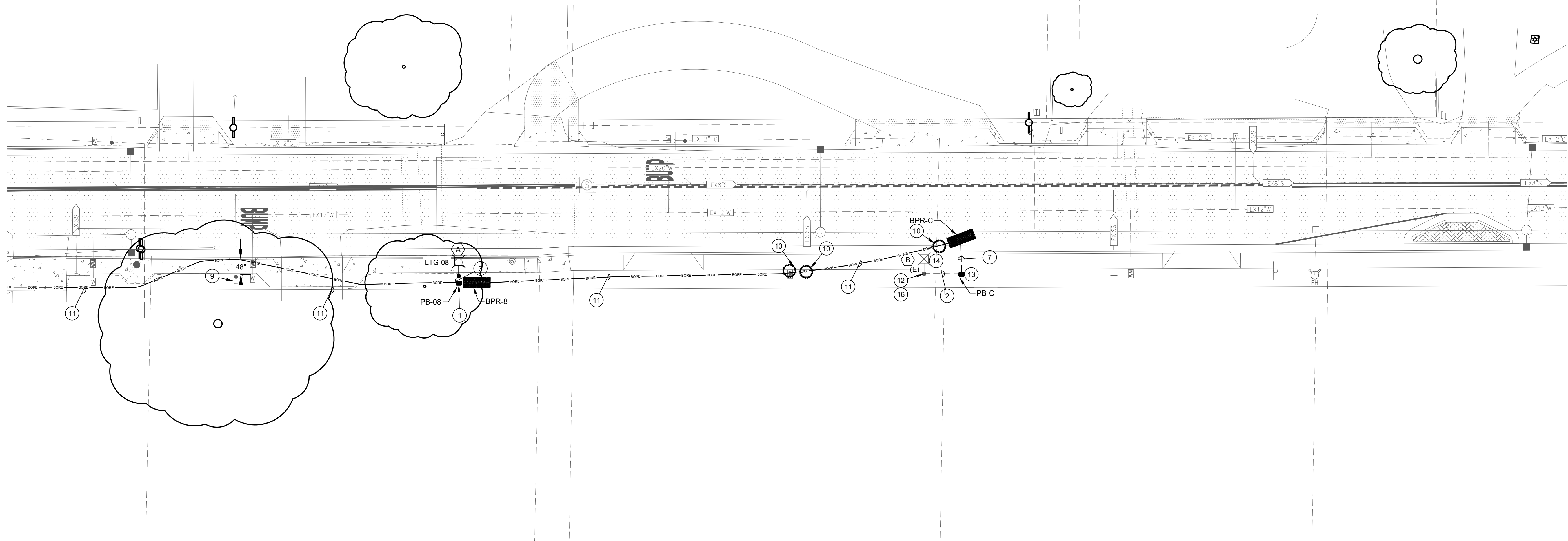
CHECKED: cw

REVISIONS: BY

REVISIONS:	BY

**FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III**
 FRUITLAND AVE
 ATWATER, CA

PROPOSED LIGHTING PLAN - AREA 5



1 PROPOSED LIGHTING PLAN - AREA 5
SCALE: 1/16"=1'-0"

PLAN NOTES:

- PROVIDE (1) PULL BOX PER DETAIL 5 ON SHEET E3.0 AT THE BASE OF EACH POLE. UPON INSTALLATION OF CONDUCTORS AND SPLICING CONTRACTOR SHALL FILL BOX PER DETAIL #2 ON SHEET E3.0. PROVIDE BOX EXTENSIONS AS NEEDED.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #3
- PROVIDE (1) 1" C WITH (2) #12 CU THWN AND (1) #12 CU GND FROM PULL BOX TO POLE. PROVIDE 24" OF SLACK IN PULL BOX AND BOTH SIDES OF THE REQUIRED FUSE HOLDER.
- PROVIDE 36" OF CLEARANCE OF ANY CURB (NEW/EXISTING) FOR NEW CONDUITS.
- EXTEND CONDUIT FROM TRENCH VIA BORE WITH MATCHING CONDUIT AND CONDUCTOR SIZES.
- NOTE NOT USED.
- EXTEND BORE CONDUIT VIA TRENCHED CONDUIT. MATCH SIZE OF CONDUIT AND CONDUCTOR.
- PROVIDE BORE/RECEIVING PIT
- MAINTAIN 48" CLEARANCE FROM ANY/ALL UTILITY POLES.
- POTHOLE EXISTING UTILITIES.
- PROVIDE 1-1/2" C WITH (2) #4 CU THWN AND (1) #10 CU GND.
- EXTEND EXISTING CIRCUIT TO NEW PULL BOX TO PROVIDE CIRCUIT TO NEW FIXTURES. CONTRACTOR SHALL REMOVE LIGHT/REINSTALL EXISTING FIXTURE AS NEEDED FOR INSTALLATION.
- REMOVE/REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW PULL BOX AND CONDUITS.
- EXISTING STREET LIGHT TO REMAIN. SHOWN FOR REFERENCE.
- REMOVE AND REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW FEEDER.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #1
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #2
- CONTRACTOR SHALL MAINTAIN 24" OF SEPARATION FROM WATER LINE MINIMUM. ANY ADDITIONAL DISTANCE SHALL BE SPLIT BETWEEN THE FRONT OF THE GUTTER AND WATER PIPE EQUALLY. PROVIDE MINIMUM 24" CLEARANCE FROM WATER LINE. DRAWING SHOWN WITH 36" SEPARATION.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #4
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #5
- CONDUIT SHALL BE 24" OFF OF BACK OF SIDEWALK WHERE POSSIBLE.

GENERAL NOTES:

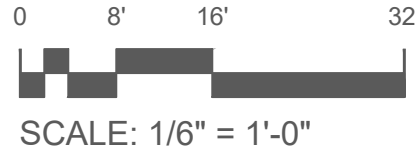
- FIXTURE TYPE (A) TO BE MOUNTED AT 28' HEIGHT ON POLE. PROVIDE POLE AND FIXTURE PER DETAIL.
- FIXTURE TYPE (B) IS EXISTING TO REMAIN.
- BORE LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. CONFIRM EXACT LOCATIONS WITH CITY INSPECTOR PRIOR TO BORING
- OPEN TRENCH MAY BE REPLACED WITH BORING AS APPROVED BY THE CITY INSPECTOR. NO ADJUSTMENT IN PAYMENT WILL BE PROVIDED FOR SUBSTITUTION OF OPEN CUT TRENCH FOR BORING METHOD AND VICE VERSA.
- PULL BOX LOCATIONS ARE TO BE DETERMINED IN THE FIELD. ALL PULL BOXES SHALL BE LOCATED ON CITY PROPERTY OR EASEMENTS - NOTE PULL BOXES ARE SHOWN FOR SCHEMATIC PURPOSES AND SHOWN IN APPROXIMATE LOCATIONS.
- ALL BORED CONDUITS SHALL BE MINIMUM 12" BELOW EXISTING UTILITIES.

LIGHTING FIXTURE SCHEDULE

DESIG.	SYMBOL	LAMP	DESCRIPTION	MANUFACTURER
(A)		LED	GCJ2-30J-MV-40K-2R-GY-070-PCR7-CR-WL-RWG-BBL-DSC 28' MOUNTING HEIGHT	LEOTEK
(B)		LED	EXISTING FIXTURES TO REMAIN.	N/A BY OTHERS

UNDERGROUND SCHEDULE

	BORE/RECEIVING PIT LOCATIONS. LOCATIONS ARE APPROXIMATE LOCATIONS AND TO BE DETERMINED IN THE FIELD. WORK WITH INSPECTOR AS NEEDED.
	CONDUIT IN THIS SECTION SHALL BE BORED.
	CONDUIT TO BE INSTALLED VIA OPEN TRENCH.
	LOCATE EXISTING UTILITIES VIA POTHOLE PRIOR TO TRENCHING/BORING.



DRAWN BY: Chris Wells

CHECK BY: CW

SCALE: AS SHOWN

DATE: MARCH 23, 2024

JOB: 23-176

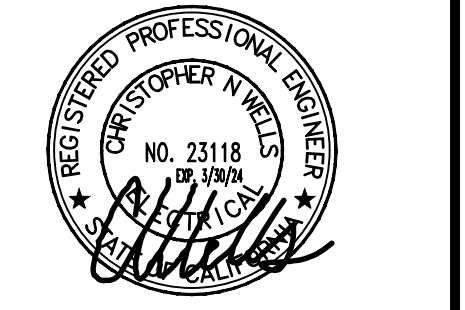
SHEET NO. E2.5

69 OF 83 SHEETS

PERMIT SET

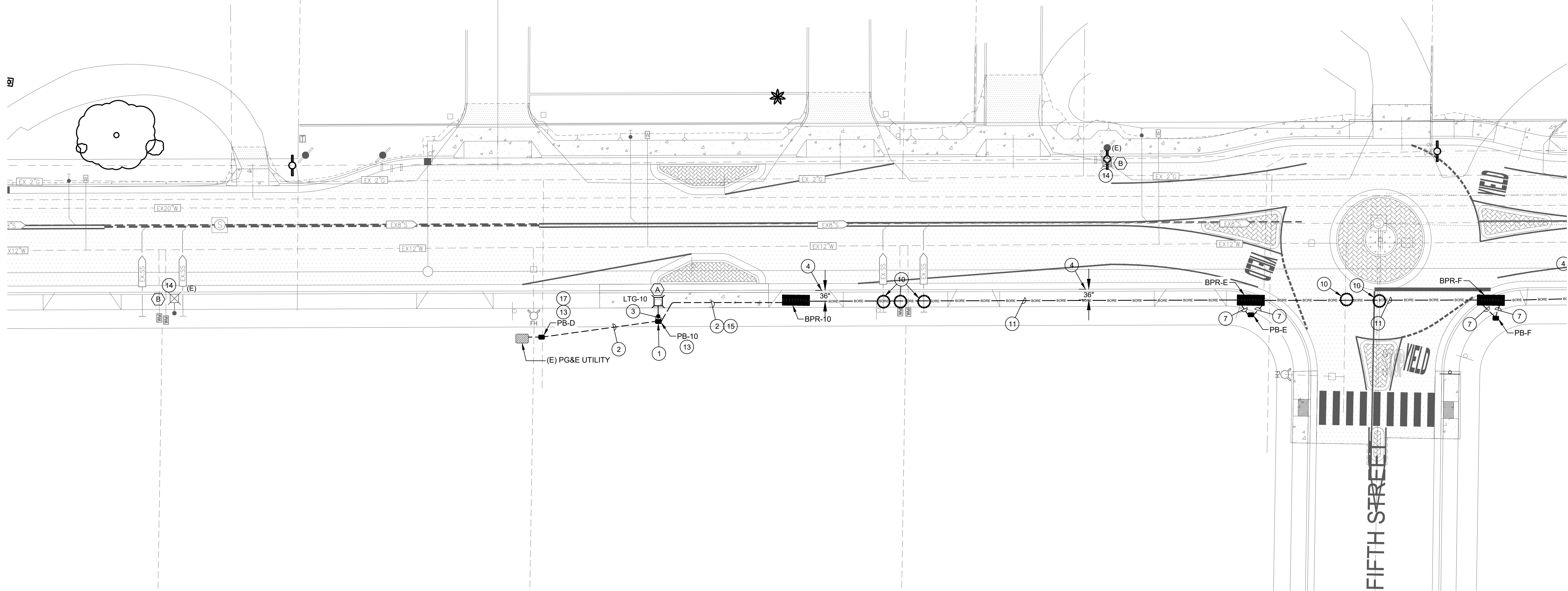
DATE:	March 25, 2024
DRAWN:	Chris Wells
CHECKED:	cw
REVISIONS:	BY
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PROPOSED LIGHTING PLAN - AREA 6
**FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III**
FRUITLAND AVE
ATWATER, CA



DRAWN BY:	Chris Wells
CHECK BY:	CW
SCALE:	AS SHOWN
DATE:	MARCH 23, 2024
JOB:	23-176

SHEET NO. **E2.6**
70 OF 83 SHEETS



1 PROPOSED LIGHTING PLAN - AREA 6
SCALE: 1/16"=1'-0"

PLAN NOTES:

- PROVIDE (1) PULL BOX PER DETAIL 5 ON SHEET E3.0 AT THE BASE OF EACH POLE. UPON INSTALLATION OF CONDUCTORS AND SPLICING CONTRACTOR SHALL FILL BOX PER DETAIL #2 ON SHEET E3.0. PROVIDE BOX EXTENSIONS AS NEEDED.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #3
- PROVIDE (1) 1" C WITH (2) #12 CU THWN AND (1) #12 CU GND FROM PULL BOX TO POLE. PROVIDE 24" OF SLACK IN PULL BOX AND BOTH SIDES OF THE REQUIRED FUSE HOLDER.
- PROVIDE 36" OF CLEARANCE OF ANY CURB (NEW/EXISTING) FOR NEW CONDUITS.
- EXTEND CONDUIT FROM TRENCH VIA BORE WITH MATCHING CONDUIT AND CONDUCTOR SIZES.
- NOTE NOT USED.
- EXTEND BORE CONDUIT VIA TRENCHED CONDUIT. MATCH SIZE OF CONDUIT AND CONDUCTOR.
- PROVIDE BORE/RECEIVING PIT
- MAINTAIN 48" CLEARANCE FROM ANY/ALL UTILITY POLES.
- POTHOLE EXISTING UTILITIES.
- PROVIDE 1-1/2" C WITH (2) #4 CU THWN AND (1) #10 CU GND.
- EXTEND EXISTING CIRCUIT TO NEW PULL BOX TO PROVIDE CIRCUIT TO NEW FIXTURES. CONTRACTOR SHALL REMOVE LIGHT/REINSTALL EXISTING FIXTURE AS NEEDED FOR INSTALLATION.
- REMOVE/REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW PULL BOX AND CONDUITS.
- EXISTING STREET LIGHT TO REMAIN. SHOWN FOR REFERENCE.
- REMOVE AND REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW FEEDER.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #1
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #2
- CONTRACTOR SHALL MAINTAIN 24" OF SEPARATION FROM WATER LINE MINIMUM. ANY ADDITIONAL DISTANCE SHALL BE SPLIT BETWEEN THE FRONT OF THE GUTTER AND WATER PIPE EQUALLY. PROVIDE MINIMUM 24" CLEARANCE FROM WATER LINE. DRAWING SHOWN WITH 36" SEPARATION.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #4
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #5
- CONDUIT SHALL BE 24" OFF OF BACK OF SIDEWALK WHERE POSSIBLE.

GENERAL NOTES:

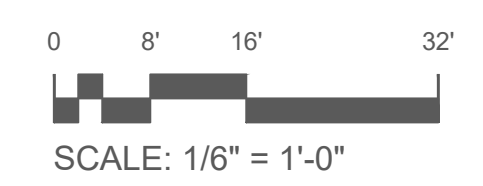
- FIXTURE TYPE (A) TO BE MOUNTED AT 28' HEIGHT ON POLE. PROVIDE POLE AND FIXTURE PER DETAIL.
- FIXTURE TYPE (B) IS EXISTING TO REMAIN.
- BORE LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. CONFIRM EXACT LOCATIONS WITH CITY INSPECTOR PRIOR TO BORING
- OPEN TRENCH MAY BE REPLACED WITH BORING AS APPROVED BY THE CITY INSPECTOR. NO ADJUSTMENT IN PAYMENT WILL BE PROVIDED FOR SUBSTITUTION OF OPEN CUT TRENCH FOR BORING METHOD AND VICE VERSA.
- PULL BOX LOCATIONS ARE TO BE DETERMINED IN THE FIELD. ALL PULL BOXES SHALL BE LOCATED ON CITY PROPERTY OR EASEMENTS. NOTE PULL BOXES ARE SHOWN FOR SCHEMATIC PURPOSES AND SHOWN IN APPROXIMATE LOCATIONS.
- ALL BORED CONDUITS SHALL BE MINIMUM 12" BELOW EXISTING UTILITIES.

LIGHTING FIXTURE SCHEDULE

DESIG.	SYMBOL	LAMP	DESCRIPTION	MANUFACTURER
(A)		LED	GCJ2-30J-MV-40K-2R-GY-070-PCR7-CR-WL-RWG-BBL-DSC 28' MOUNTING HEIGHT	LEOTEK
(B)		LED	EXISTING FIXTURES TO REMAIN.	N/A BY OTHERS

UNDERGROUND SCHEDULE

	BORE/RECEIVING PIT LOCATIONS. LOCATIONS ARE APPROXIMATE LOCATIONS AND TO BE DETERMINED IN THE FIELD. WORK WITH INSPECTOR AS NEEDED.
	CONDUIT IN THIS SECTION SHALL BE BORED.
	CONDUIT TO BE INSTALLED VIA OPEN TRENCH.
	LOCATE EXISTING UTILITIES VIA POTHOLE PRIOR TO TRENCHING/BORING.

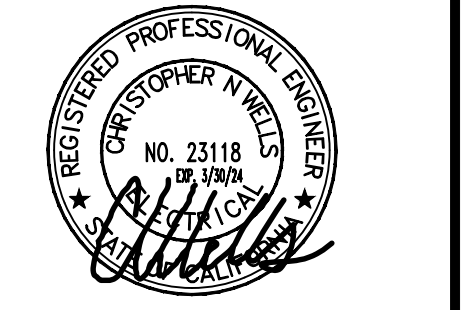


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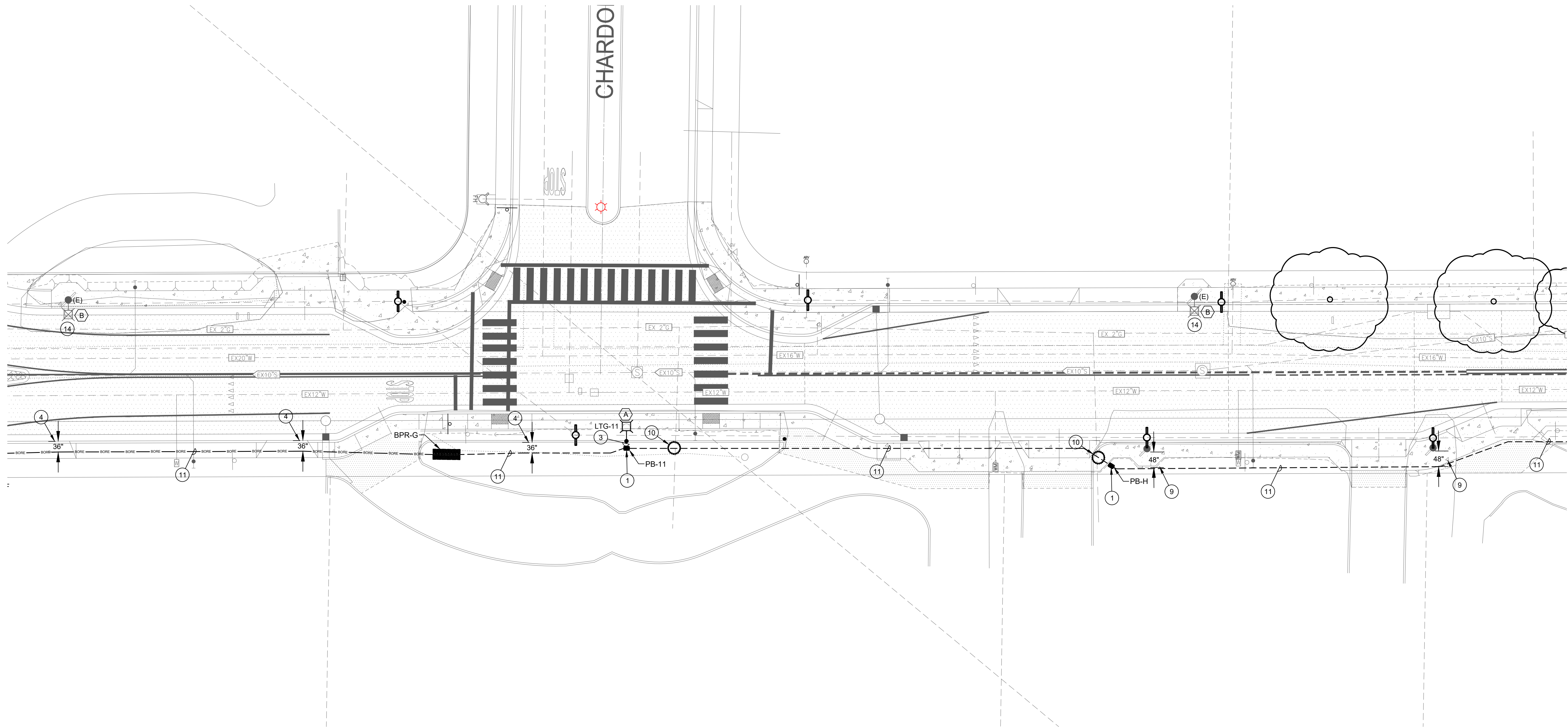
DATE:	March 25, 2024
DRAWN:	Chris Wells
CHECKED:	cw
REVISIONS:	BY
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**FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III**
 FRUITLAND AVE
 ATWATER, CA

PROPOSED LIGHTING PLAN - AREA 7



DRAWN BY:	Chris Wells
CHECK BY:	CW
SCALE:	AS SHOWN
DATE:	MARCH 23, 2024
JOB:	23-176
SHEET NO.	E2.7



1 PROPOSED LIGHTING PLAN - AREA 7
SCALE: 1/16"=1'-0"

PLAN NOTES:

- | | |
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| <ol style="list-style-type: none"> 1. PROVIDE (1) PULL BOX PER DETAIL 5 ON SHEET E3.0 AT THE BASE OF EACH POLE. UPON INSTALLATION OF CONDUCTORS AND SPLICING CONTRACTOR SHALL FILL BOX PER DETAIL #2 ON SHEET E3.0. PROVIDE BOX EXTENSIONS AS NEEDED. 2. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #3 3. PROVIDE (1) 1" C WITH (2) #12 CU THWN AND (1) #12 CU GND FROM PULL BOX TO POLE. PROVIDE 24" OF SLACK IN PULL BOX AND BOTH SIDES OF THE REQUIRED FUSE HOLDER. 4. PROVIDE 36" OF CLEARANCE OF ANY CURB (NEW/EXISTING) FOR NEW CONDUITS. 5. EXTEND CONDUIT FROM TRENCH VIA BORE WITH MATCHING CONDUIT AND CONDUCTOR SIZES. 6. NOTE NOT USED. 7. EXTEND BORE CONDUIT VIA TRENCHED CONDUIT. MATCH SIZE OF CONDUIT AND CONDUCTOR. 8. PROVIDE BORE/RECEIVING PIT 9. MAINTAIN 48" CLEARANCE FROM ANY/ALL UTILITY POLES. 10. POT HOLE EXISTING UTILITIES. 11. PROVIDE 1-1/2" C WITH (2) #4 CU THWN AND (1) #10 CU GND. 12. EXTEND EXISTING CIRCUIT TO NEW PULL BOX TO PROVIDE CIRCUIT TO NEW FIXTURES. CONTRACTOR SHALL REMOVE LIGHT/REINSTALL EXISTING FIXTURE AS NEEDED FOR INSTALLATION. 13. REMOVE/REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW PULL BOX AND CONDUITS. 14. EXISTING STREET LIGHT TO REMAIN. SHOWN FOR REFERENCE. 15. REMOVE AND REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW FEEDER. 16. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #1 17. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #2 18. CONTRACTOR SHALL MAINTAIN 24" OF SEPARATION FROM WATER LINE MINIMUM. ANY ADDITIONAL DISTANCE SHALL BE SPLIT BETWEEN THE FRONT OF THE GUTTER AND WATER PIPE EQUALLY. PROVIDE MINIMUM 24" CLEARANCE FROM WATER LINE. DRAWING SHOWN WITH 36" SEPARATION. | <ol style="list-style-type: none"> 20. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #4 21. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #5 22. CONDUIT SHALL BE 24" OFF OF BACK OF SIDEWALK WHERE POSSIBLE. |
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GENERAL NOTES:

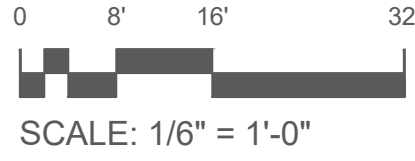
1. FIXTURE TYPE (A) TO BE MOUNTED AT 28' HEIGHT ON POLE. PROVIDE POLE AND FIXTURE PER DETAIL.
2. FIXTURE TYPE (B) IS EXISTING TO REMAIN.
3. BORE LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. CONFIRM EXACT LOCATIONS WITH CITY INSPECTOR PRIOR TO BORING
4. OPEN TRENCH MAY BE REPLACED WITH BORING AS APPROVED BY THE CITY INSPECTOR. NO ADJUSTMENT IN PAYMENT WILL BE PROVIDED FOR SUBSTITUTION OF OPEN CUT TRENCH FOR BORING METHOD AND VICE VERSA.
5. PULL BOX LOCATIONS ARE TO BE DETERMINED IN THE FIELD. ALL PULL BOXES SHALL BE LOCATED ON CITY PROPERTY OR EASEMENTS. NOTE PULL BOXES ARE SHOWN FOR SCHEMATIC PURPOSES AND SHOWN IN APPROXIMATE LOCATIONS.
6. ALL BORED CONDUITS SHALL BE MINIMUM 12" BELOW EXISTING UTILITIES.

LIGHTING FIXTURE SCHEDULE

DESIG.	SYMBOL	LAMP	DESCRIPTION	MANUFACTURER
(A)		LED	GCJ2-30J-MV-40K-2R-GY-070-PCR7-CR-WL-RWG-BBL-DSC 28' MOUNTING HEIGHT	LEOTEK
(B)		LED	EXISTING FIXTURES TO REMAIN.	N/A BY OTHERS

UNDERGROUND SCHEDULE

	BORE/RECEIVING PIT LOCATIONS. LOCATIONS ARE APPROXIMATE LOCATIONS AND TO BE DETERMINED IN THE FIELD. WORK WITH INSPECTOR AS NEEDED.
	CONDUIT IN THIS SECTION SHALL BE BORED.
	CONDUIT TO BE INSTALLED VIA OPEN TRENCH.
	LOCATE EXISTING UTILITIES VIA POT HOLE PRIOR TO TRENCHING/BORING.



PERMIT SET

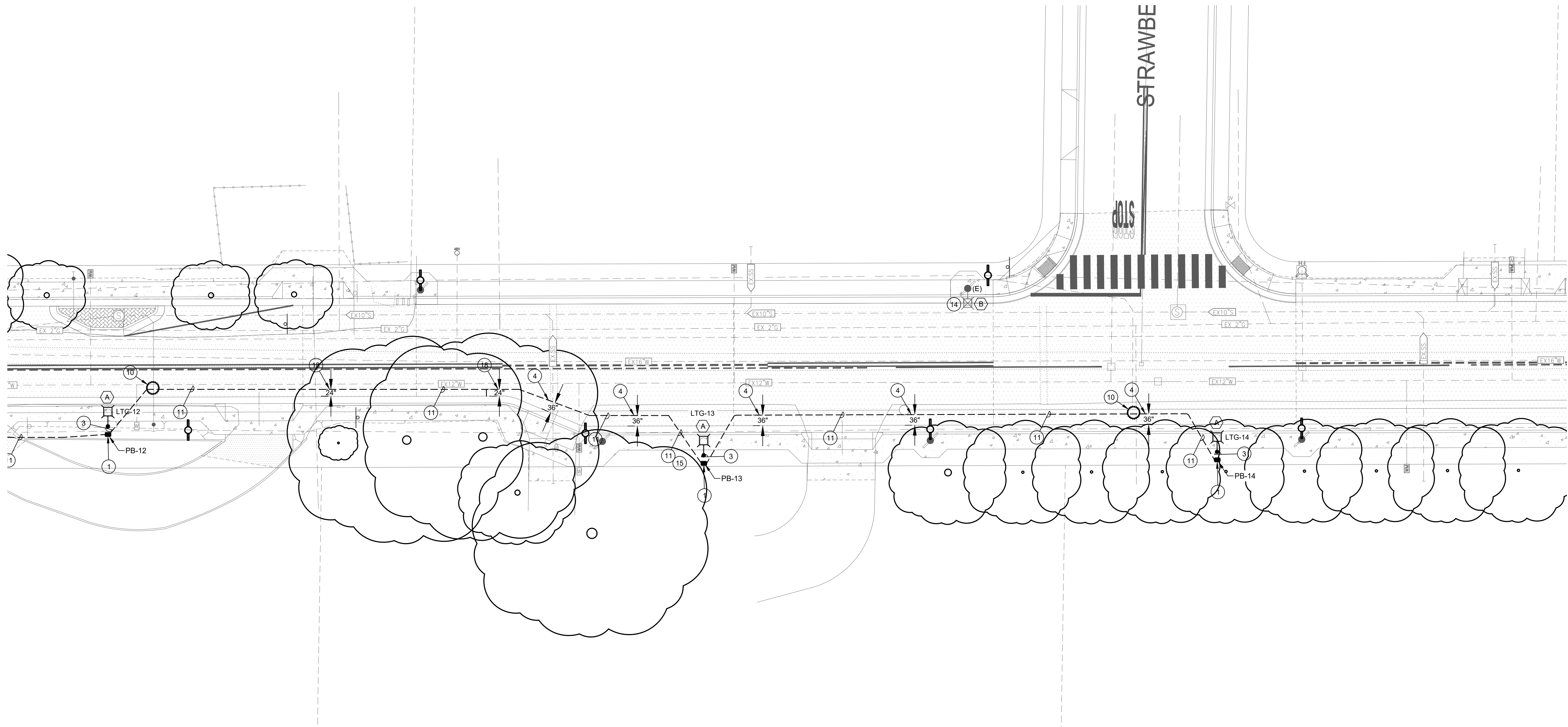
DATE:	March 25, 2024
DRAWN:	Chris Wells
CHECKED:	cw
REVISIONS:	BY
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FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III
 FRUITLAND AVE
 ATWATER, CA

PROPOSED LIGHTING PLAN - AREA 8



DRAWN BY:	Chris Wells
CHECK BY:	CW
SCALE:	AS SHOWN
DATE:	MARCH 23, 2024
JOB:	23-176
SHEET NO.:	E2.8



1 PROPOSED LIGHTING PLAN - AREA 8
SCALE: 1/16"=1'-0"

PLAN NOTES:

- PROVIDE (1) PULL BOX PER DETAIL 5 ON SHEET E3.0 AT THE BASE OF EACH POLE. UPON INSTALLATION OF CONDUCTORS AND SPLICING CONTRACTOR SHALL FILL BOX PER DETAIL #2 ON SHEET E3.0. PROVIDE BOX EXTENSIONS AS NEEDED.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #3
- PROVIDE (1) 1" C WITH (2) #12 CU THWN AND (1) #12 CU GND FROM PULL BOX TO POLE. PROVIDE 24" OF SLACK IN PULL BOX AND BOTH SIDES OF THE REQUIRED FUSE HOLDER.
- PROVIDE 36" OF CLEARANCE OF ANY CURB (NEW/EXISTING) FOR NEW CONDUITS.
- EXTEND CONDUIT FROM TRENCH VIA BORE WITH MATCHING CONDUIT AND CONDUCTOR SIZES.
- NOTE NOT USED.
- EXTEND BORE CONDUIT VIA TRENCHED CONDUIT. MATCH SIZE OF CONDUIT AND CONDUCTOR.
- PROVIDE BORE/RECEIVING PIT
- MAINTAIN 48" CLEARANCE FROM ANY/ALL UTILITY POLES.
- POTHOLE EXISTING UTILITIES.
- PROVIDE 1-1/2" C WITH (2) #4 CU THWN AND (1) #10 CU GND.
- EXTEND EXISTING CIRCUIT TO NEW PULL BOX TO PROVIDE CIRCUIT TO NEW FIXTURES. CONTRACTOR SHALL REMOVE LIGHT/REINSTALL EXISTING FIXTURE AS NEEDED FOR INSTALLATION.
- REMOVE/REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW PULL BOX AND CONDUITS.
- EXISTING STREET LIGHT TO REMAIN. SHOWN FOR REFERENCE.
- REMOVE AND REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW FEEDER.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #1
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #2
- CONTRACTOR SHALL MAINTAIN 24" OF SEPARATION FROM WATER LINE MINIMUM. ANY ADDITIONAL DISTANCE SHALL BE SPLIT BETWEEN THE FRONT OF THE GUTTER AND WATER PIPE EQUALLY. PROVIDE MINIMUM 24" CLEARANCE FROM WATER LINE. DRAWING SHOWN WITH 36" SEPARATION.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #4
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #5
- CONDUIT SHALL BE 24" OFF OF BACK OF SIDEWALK WHERE POSSIBLE.

GENERAL NOTES:

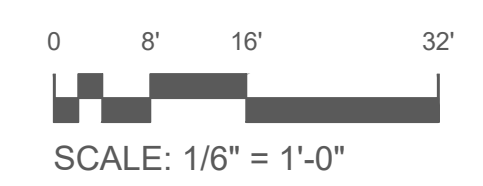
- FIXTURE TYPE (A) TO BE MOUNTED AT 28' HEIGHT ON POLE. PROVIDE POLE AND FIXTURE PER DETAIL.
- FIXTURE TYPE (B) IS EXISTING TO REMAIN.
- BORE LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. CONFIRM EXACT LOCATIONS WITH CITY INSPECTOR PRIOR TO BORING
- OPEN TRENCH MAY BE REPLACED WITH BORING AS APPROVED BY THE CITY INSPECTOR. NO ADJUSTMENT IN PAYMENT WILL BE PROVIDED FOR SUBSTITUTION OF OPEN CUT TRENCH FOR BORING METHOD AND VICE VERSA.
- PULL BOX LOCATIONS ARE TO BE DETERMINED IN THE FIELD. ALL PULL BOXES SHALL BE LOCATED ON CITY PROPERTY OR EASEMENTS. NOTE PULL BOXES ARE SHOWN FOR SCHEMATIC PURPOSES AND SHOWN IN APPROXIMATE LOCATIONS.
- ALL BORED CONDUITS SHALL BE MINIMUM 12" BELOW EXISTING UTILITIES.

LIGHTING FIXTURE SCHEDULE

DESIG.	SYMBOL	LAMP	DESCRIPTION	MANUFACTURER
(A)		LED	GCJ2-30J-MV-40K-2R-GY-070-PCR7-CR-WL-RWG-BBL-DSC 28' MOUNTING HEIGHT	LEOTEK
(B)		LED	EXISTING FIXTURES TO REMAIN.	N/A BY OTHERS

UNDERGROUND SCHEDULE

	BORE/RECEIVING PIT LOCATIONS. LOCATIONS ARE APPROXIMATE LOCATIONS AND TO BE DETERMINED IN THE FIELD. WORK WITH INSPECTOR AS NEEDED.
	CONDUIT IN THIS SECTION SHALL BE BORED.
	CONDUIT TO BE INSTALLED VIA OPEN TRENCH.
	LOCATE EXISTING UTILITIES VIA POTHOLE PRIOR TO TRENCHING/BORING.



PERMIT SET

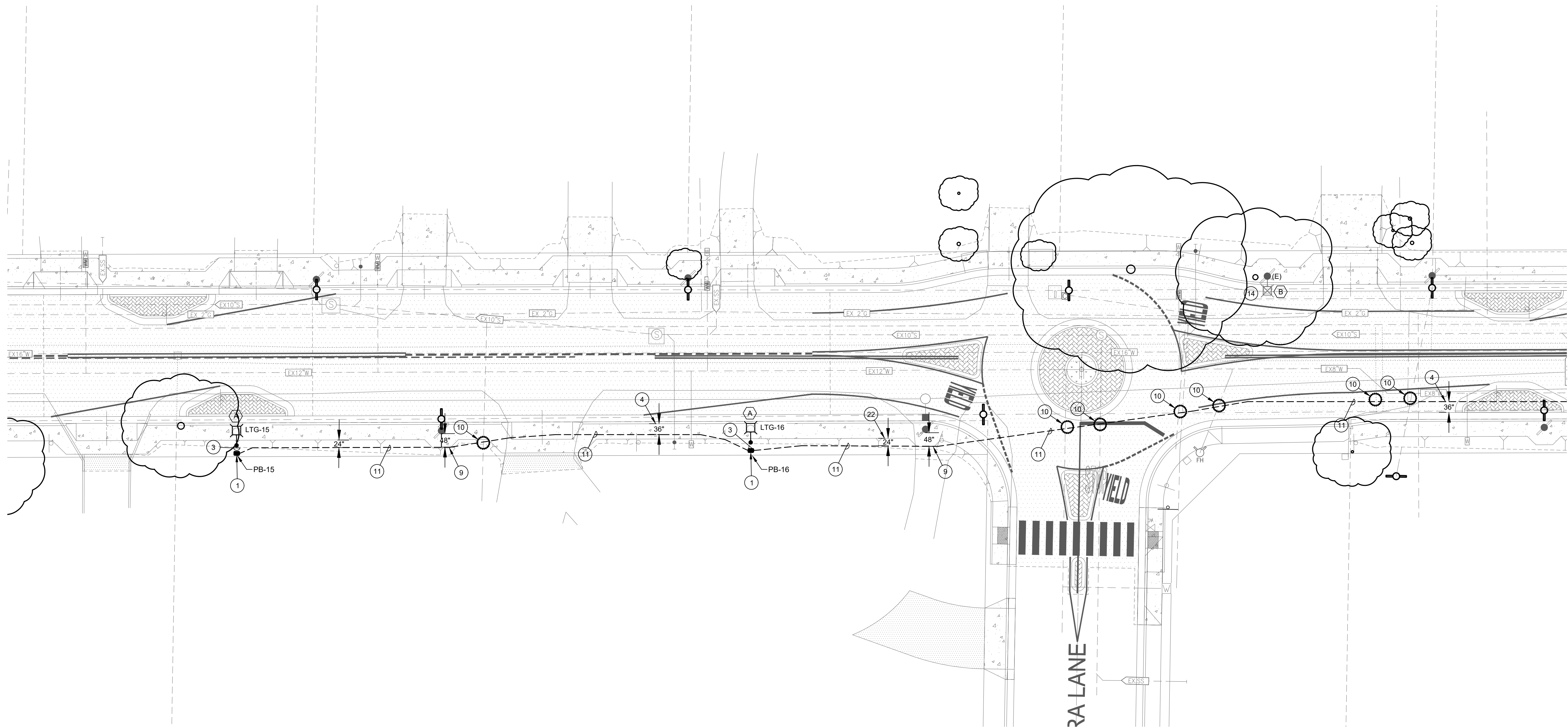
DATE:	March 25, 2024
DRAWN:	Chris Wells
CHECKED:	cw
REVISIONS:	BY
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PROPOSED LIGHTING PLAN - AREA 9
**FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III**
FRUITLAND AVE
ATWATER, CA



DRAWN BY:	Chris Wells
CHECK BY:	CW
SCALE:	AS SHOWN
DATE:	MARCH 23, 2024
JOB:	23-176

SHEET NO. **E2.9**
73 OF 83 SHEETS



1 PROPOSED LIGHTING PLAN - AREA 9
SCALE: 1/16"=1'-0"

PLAN NOTES:

- PROVIDE (1) PULL BOX PER DETAIL 5 ON SHEET E3.0 AT THE BASE OF EACH POLE. UPON INSTALLATION OF CONDUCTORS AND SPLICING CONTRACTOR SHALL FILL BOX PER DETAIL #2 ON SHEET E3.0. PROVIDE BOX EXTENSIONS AS NEEDED.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #3
- PROVIDE (1) 1" C WITH (2) #12 CU THWN AND (1) #12 CU GND FROM PULL BOX TO POLE. PROVIDE 24" OF SLACK IN PULL BOX AND BOTH SIDES OF THE REQUIRED FUSE HOLDER.
- PROVIDE 36" OF CLEARANCE OF ANY CURB (NEW/EXISTING) FOR NEW CONDUITS.
- EXTEND CONDUIT FROM TRENCH VIA BORE WITH MATCHING CONDUIT AND CONDUCTOR SIZES.
- NOTE NOT USED.
- EXTEND BORE CONDUIT VIA TRENCHED CONDUIT. MATCH SIZE OF CONDUIT AND CONDUCTOR.
- PROVIDE BORE/RECEIVING PIT
- MAINTAIN 48" CLEARANCE FROM ANY/ALL UTILITY POLES.
- POTHOLE EXISTING UTILITIES.
- PROVIDE 1-1/2" C WITH (2) #4 CU THWN AND (1) #10 CU GND.
- EXTEND EXISTING CIRCUIT TO NEW PULL BOX TO PROVIDE CIRCUIT TO NEW FIXTURES. CONTRACTOR SHALL REMOVE LIGHT/REINSTALL EXISTING FIXTURE AS NEEDED FOR INSTALLATION.
- REMOVE/REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW PULL BOX AND CONDUITS.
- EXISTING STREET LIGHT TO REMAIN. SHOWN FOR REFERENCE.
- REMOVE AND REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW FEEDER.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #1
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #2
- CONTRACTOR SHALL MAINTAIN 24" OF SEPARATION FROM WATER LINE MINIMUM. ANY ADDITIONAL DISTANCE SHALL BE SPLIT BETWEEN THE FRONT OF THE GUTTER AND WATER PIPE EQUALLY. PROVIDE MINIMUM 24" CLEARANCE FROM WATER LINE. DRAWING SHOWN WITH 36" SEPARATION.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #4
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #5
- CONDUIT SHALL BE 24" OFF OF BACK OF SIDEWALK WHERE POSSIBLE.

GENERAL NOTES:

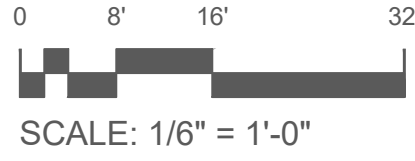
- FIXTURE TYPE (A) TO BE MOUNTED AT 28' HEIGHT ON POLE. PROVIDE POLE AND FIXTURE PER DETAIL.
- FIXTURE TYPE (B) IS EXISTING TO REMAIN.
- BORE LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. CONFIRM EXACT LOCATIONS WITH CITY INSPECTOR PRIOR TO BORING
- OPEN TRENCH MAY BE REPLACED WITH BORING AS APPROVED BY THE CITY INSPECTOR. NO ADJUSTMENT IN PAYMENT WILL BE PROVIDED FOR SUBSTITUTION OF OPEN CUT TRENCH FOR BORING METHOD AND VICE VERSA.
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- ALL BORED CONDUITS SHALL BE MINIMUM 12" BELOW EXISTING UTILITIES.

LIGHTING FIXTURE SCHEDULE

DESIG.	SYMBOL	LAMP	DESCRIPTION	MANUFACTURER
(A)		LED	GCJ2-30J-MV-40K-2R-GY-070-PCR7-CR-WL-RWG-BBL-DSC 28' MOUNTING HEIGHT	LEOTEK
(B)		LED	EXISTING FIXTURES TO REMAIN.	N/A BY OTHERS

UNDERGROUND SCHEDULE

	BORE/RECEIVING PIT LOCATIONS. LOCATIONS ARE APPROXIMATE LOCATIONS AND TO BE DETERMINED IN THE FIELD. WORK WITH INSPECTOR AS NEEDED.
	CONDUIT IN THIS SECTION SHALL BE BORED.
	CONDUIT TO BE INSTALLED VIA OPEN TRENCH.
	LOCATE EXISTING UTILITIES VIA POTHOLE PRIOR TO TRENCHING/BORING.

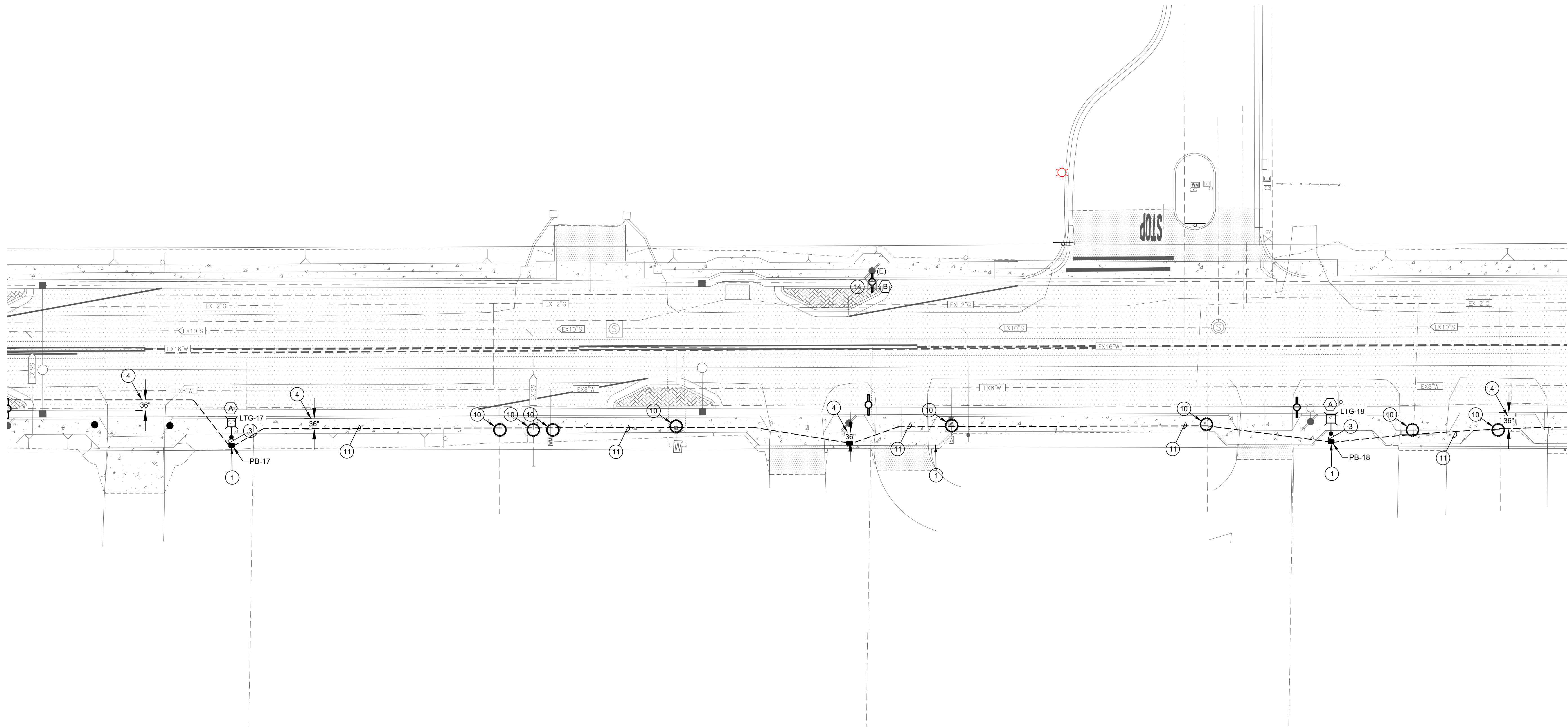


PERMIT SET

DATE:	March 25, 2024
DRAWN:	Chris Wells
CHECKED:	cw
REVISIONS:	BY
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**FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III**
 FRUITLAND AVE
 ATWATER, CA

PROPOSED LIGHTING PLAN - AREA 10



1 PROPOSED LIGHTING PLAN - AREA 10
SCALE: 1/16"=1'-0"

PLAN NOTES:

- PROVIDE (1) PULL BOX PER DETAIL 5 ON SHEET E3.0 AT THE BASE OF EACH POLE. UPON INSTALLATION OF CONDUCTORS AND SPlicing CONTRACTOR SHALL FILL BOX PER DETAIL #2 ON SHEET E3.0. PROVIDE BOX EXTENSIONS AS NEEDED.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #3
- PROVIDE (1) 1" C WITH (2) #12 CU THWN AND (1) #12 CU GND FROM PULL BOX TO POLE. PROVIDE 24" OF SLACK IN PULL BOX AND BOTH SIDES OF THE REQUIRED FUSE HOLDER.
- PROVIDE 36" OF CLEARANCE OF ANY CURB (NEW/EXISTING) FOR NEW CONDUITS.
- EXTEND CONDUIT FROM TRENCH VIA BORE WITH MATCHING CONDUIT AND CONDUCTOR SIZES.
- NOTE NOT USED.
- EXTEND BORE CONDUIT VIA TRENCHED CONDUIT. MATCH SIZE OF CONDUIT AND CONDUCTOR.
- PROVIDE BORE/RECEIVING PIT
- MAINTAIN 48" CLEARANCE FROM ANY/ALL UTILITY POLES.
- POTHOLE EXISTING UTILITIES.
- PROVIDE 1-1/2" C WITH (2) #4 CU THWN AND (1) #10 CU GND.
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- EXISTING STREET LIGHT TO REMAIN. SHOWN FOR REFERENCE.
- REMOVE AND REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW FEEDER.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #1
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #2
- CONTRACTOR SHALL MAINTAIN 24" OF SEPARATION FROM WATER LINE MINIMUM. ANY ADDITIONAL DISTANCE SHALL BE SPLIT BETWEEN THE FRONT OF THE GUTTER AND WATER PIPE EQUALLY. PROVIDE MINIMUM 24" CLEARANCE FROM WATER LINE. DRAWING SHOWN WITH 36" SEPARATION.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #4
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #5
- CONDUIT SHALL BE 24" OFF OF BACK OF SIDEWALK WHERE POSSIBLE.

GENERAL NOTES:

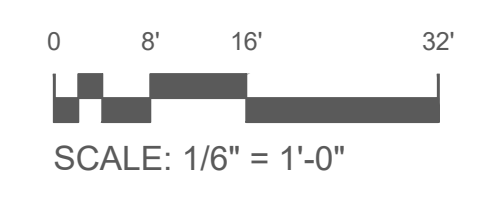
- FIXTURE TYPE (A) TO BE MOUNTED AT 28' HEIGHT ON POLE. PROVIDE POLE AND FIXTURE PER DETAIL.
- FIXTURE TYPE (B) IS EXISTING TO REMAIN.
- BORE LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. CONFIRM EXACT LOCATIONS WITH CITY INSPECTOR PRIOR TO BORING
- OPEN TRENCH MAY BE REPLACED WITH BORING AS APPROVED BY THE CITY INSPECTOR. NO ADJUSTMENT IN PAYMENT WILL BE PROVIDED FOR SUBSTITUTION OF OPEN CUT TRENCH FOR BORING METHOD AND VICE VERSA.
- PULL BOX LOCATIONS ARE TO BE DETERMINED IN THE FIELD. ALL PULL BOXES SHALL BE LOCATED ON CITY PROPERTY OR EASEMENTS - NOTE PULL BOXES ARE SHOWN FOR SCHEMATIC PURPOSES AND SHOWN IN APPROXIMATE LOCATIONS.
- ALL BORED CONDUITS SHALL BE MINIMUM 12" BELOW EXISTING UTILITIES.

LIGHTING FIXTURE SCHEDULE

DESIG.	SYMBOL	LAMP	DESCRIPTION	MANUFACTURER
(A)		LED	GCJ2-30J-MV-40K-2R-GY-070-PCR7-CR-WL-RWG-BBL-DSC 28' MOUNTING HEIGHT	LEOTEK
(B)		LED	EXISTING FIXTURES TO REMAIN.	N/A BY OTHERS

UNDERGROUND SCHEDULE

	BORE/RECEIVING PIT LOCATIONS. LOCATIONS ARE APPROXIMATE LOCATIONS AND TO BE DETERMINED IN THE FIELD. WORK WITH INSPECTOR AS NEEDED.
	CONDUIT IN THIS SECTION SHALL BE BORED.
	CONDUIT TO BE INSTALLED VIA OPEN TRENCH.
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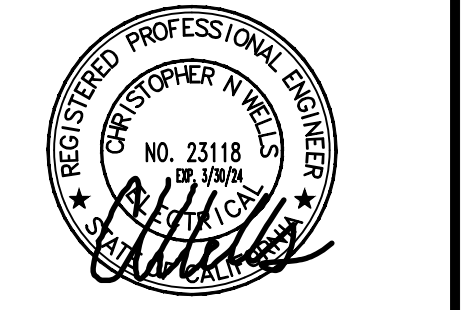
DRAWN BY:	Chris Wells
CHECK BY:	CW
SCALE:	AS SHOWN
DATE:	MARCH 23, 2024
JOB:	23-176

PERMIT SET

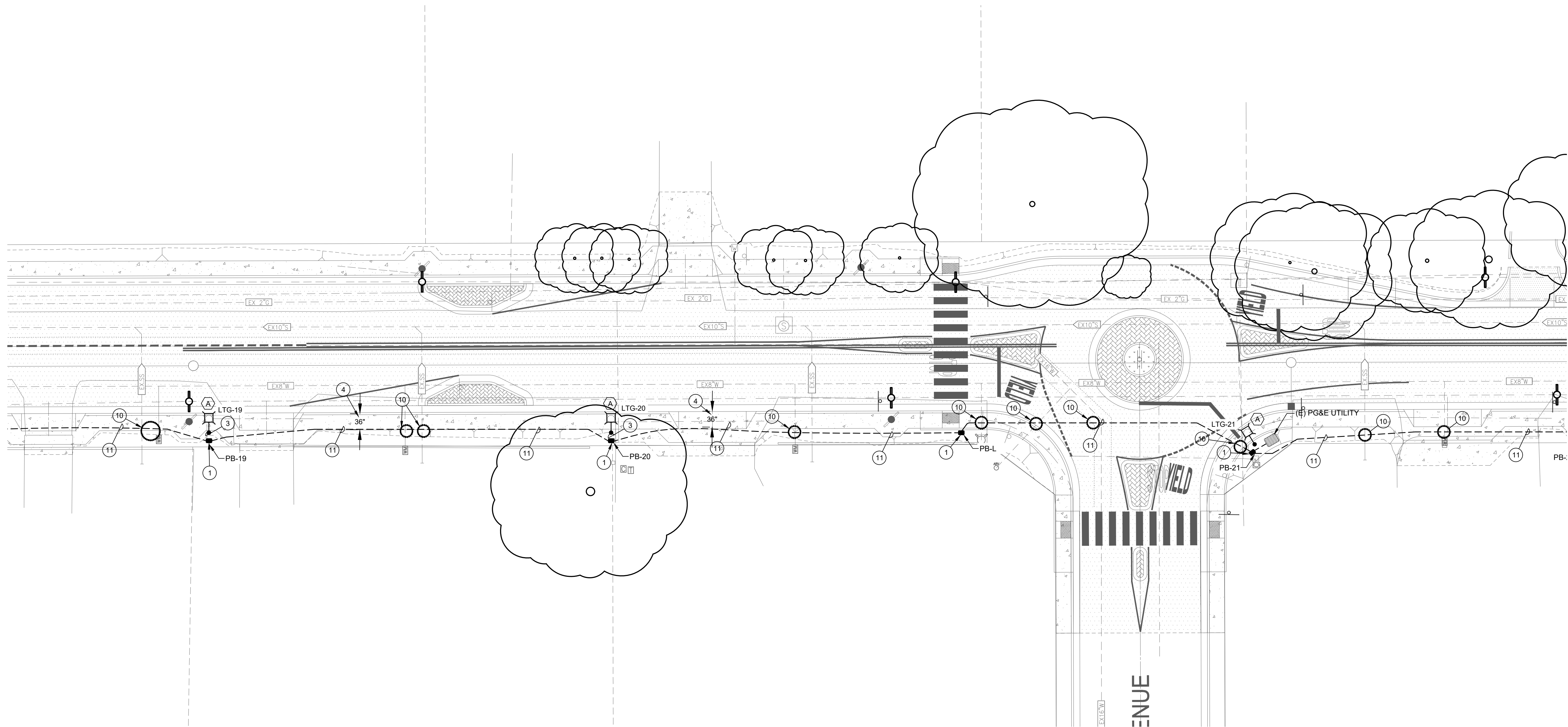
DATE:	March 25, 2024
DRAWN:	Chris Wells
CHECKED:	cw
REVISIONS:	BY
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**FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III**
 FRUITLAND AVE
 ATWATER, CA

PROPOSED LIGHTING PLAN - AREA 11



DRAWN BY:	Chris Wells
CHECK BY:	CW
SCALE:	AS SHOWN
DATE:	MARCH 23, 2024
JOB:	23-176
SHEET NO.	E2.11



1 PROPOSED LIGHTING PLAN - AREA 11
SCALE: 1/16"=1'-0"

PLAN NOTES:

1. PROVIDE (1) PULL BOX PER DETAIL 5 ON SHEET E3.0 AT THE BASE OF EACH POLE. UPON INSTALLATION OF CONDUCTORS AND SPLICING CONTRACTOR SHALL FILL BOX PER DETAIL #2 ON SHEET E3.0. PROVIDE BOX EXTENSIONS AS NEEDED.
2. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #3
3. PROVIDE (1) 1" C WITH (2) #12 CU THWN AND (1) #12 CU GND FROM PULL BOX TO POLE. PROVIDE 24" OF SLACK IN PULL BOX AND BOTH SIDES OF THE REQUIRED FUSE HOLDER.
4. PROVIDE 36" OF CLEARANCE OF ANY CURB (NEW/EXISTING) FOR NEW CONDUITS.
5. EXTEND CONDUIT FROM TRENCH VIA BORE WITH MATCHING CONDUIT AND CONDUCTOR SIZES.
6. NOTE NOT USED.
7. EXTEND BORE CONDUIT VIA TRENCHED CONDUIT. MATCH SIZE OF CONDUIT AND CONDUCTOR.
8. PROVIDE BORE/RECEIVING PIT
9. MAINTAIN 48" CLEARANCE FROM ANY/ALL UTILITY POLES.
10. POTHOLE EXISTING UTILITIES.
11. PROVIDE 1-1/2" C WITH (2) #4 CU THWN AND (1) #10 CU GND.
12. EXTEND EXISTING CIRCUIT TO NEW PULL BOX TO PROVIDE CIRCUIT TO NEW FIXTURES. CONTRACTOR SHALL REMOVE LIGHT/REINSTALL EXISTING FIXTURE AS NEEDED FOR INSTALLATION.
13. REMOVE/REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW PULL BOX AND CONDUITS.
14. EXISTING STREET LIGHT TO REMAIN. SHOWN FOR REFERENCE.
15. REMOVE AND REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW FEEDER.
16. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #1
17. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #2
18. CONTRACTOR SHALL MAINTAIN 24" OF SEPARATION FROM WATER LINE MINIMUM. ANY ADDITIONAL DISTANCE SHALL BE SPLIT BETWEEN THE FRONT OF THE GUTTER AND WATER PIPE EQUALLY. PROVIDE MINIMUM 24" CLEARANCE FROM WATER LINE. DRAWING SHOWN WITH 36" SEPARATION.
19. PROVIDE (1) 1" C WITH (2) #12 CU THWN AND (1) #12 CU GND FROM PULL BOX TO POLE. PROVIDE 24" OF SLACK IN PULL BOX AND BOTH SIDES OF THE REQUIRED FUSE HOLDER.
20. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #4
21. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #5
22. CONDUIT SHALL BE 24" OFF OF BACK OF SIDEWALK WHERE POSSIBLE.

GENERAL NOTES:

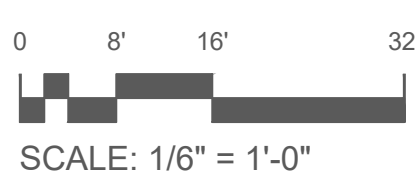
1. FIXTURE TYPE (A) TO BE MOUNTED AT 28' HEIGHT ON POLE. PROVIDE POLE AND FIXTURE PER DETAIL.
2. FIXTURE TYPE (B) IS EXISTING TO REMAIN.
3. BORE LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. CONFIRM EXACT LOCATIONS WITH CITY INSPECTOR PRIOR TO BORING
4. OPEN TRENCH MAY BE REPLACED WITH BORING AS APPROVED BY THE CITY INSPECTOR. NO ADJUSTMENT IN PAYMENT WILL BE PROVIDED FOR SUBSTITUTION OF OPEN CUT TRENCH FOR BORING METHOD AND VICE VERSA.
5. PULL BOX LOCATIONS ARE TO BE DETERMINED IN THE FIELD. ALL PULL BOXES SHALL BE LOCATED ON CITY PROPERTY OR EASEMENTS - NOTE PULL BOXES ARE SHOWN FOR SCHEMATIC PURPOSES AND SHOWN IN APPROXIMATE LOCATIONS.
6. ALL BORED CONDUITS SHALL BE MINIMUM 12" BELOW EXISTING UTILITIES.

LIGHTING FIXTURE SCHEDULE

DESIG.	SYMBOL	LAMP	DESCRIPTION	MANUFACTURER
(A)		LED	GCJ2-30J-MV-40K-2R-GY-070-PCR7-CR-WL-RWG-BBL-DSC 28' MOUNTING HEIGHT	LEOTEK
(B)		LED	EXISTING FIXTURES TO REMAIN.	N/A BY OTHERS

UNDERGROUND SCHEDULE

	BORE/RECEIVING PIT LOCATIONS. LOCATIONS ARE APPROXIMATE LOCATIONS AND TO BE DETERMINED IN THE FIELD. WORK WITH INSPECTOR AS NEEDED.
	CONDUIT IN THIS SECTION SHALL BE BORED.
	CONDUIT TO BE INSTALLED VIA OPEN TRENCH.
	LOCATE EXISTING UTILITIES VIA POTHOLE PRIOR TO TRENCHING/BORING.

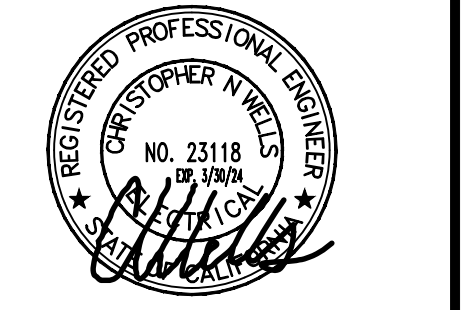


PERMIT SET

DATE:	March 25, 2024
DRAWN:	Chris Wells
CHECKED:	cw
REVISIONS:	BY
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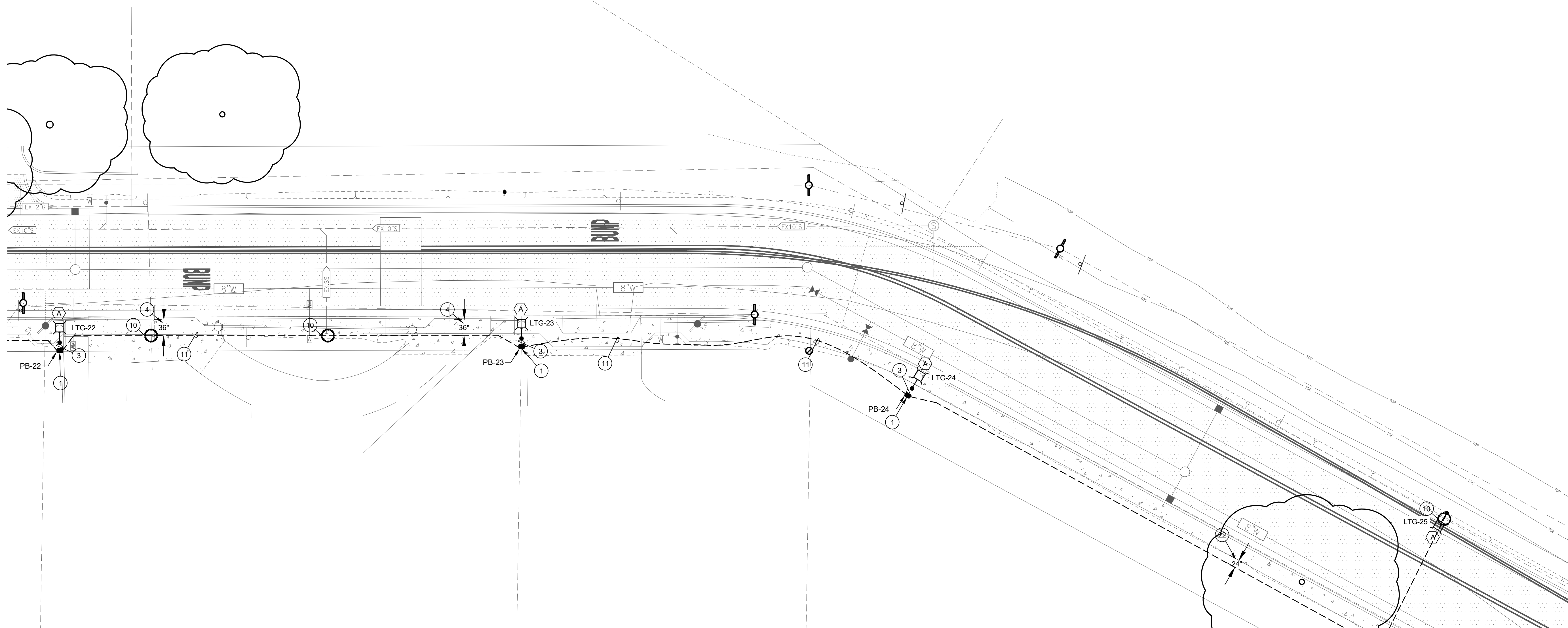
FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III
 FRUITLAND AVE
 ATWATER, CA

PROPOSED LIGHTING PLAN - AREA 12



DRAWN BY:	Chris Wells
CHECK BY:	CW
SCALE:	AS SHOWN
DATE:	MARCH 23, 2024
JOB:	23-176

SHEET NO. **E2.12**
76 OF 83 SHEETS



1 PROPOSED LIGHTING PLAN - AREA 12
SCALE: 1/16"=1'-0"

PLAN NOTES:

- | | |
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| <ol style="list-style-type: none"> 1. PROVIDE (1) PULL BOX PER DETAIL 5 ON SHEET E3.0 AT THE BASE OF EACH POLE. UPON INSTALLATION OF CONDUCTORS AND SPLICING CONTRACTOR SHALL FILL BOX PER DETAIL #2 ON SHEET E3.0. PROVIDE BOX EXTENSIONS AS NEEDED. 2. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #3 3. PROVIDE (1) 1" C WITH (2) #12 CU THWN AND (1) #12 CU GND FROM PULL BOX TO POLE. PROVIDE 24" OF SLACK IN PULL BOX AND BOTH SIDES OF THE REQUIRED FUSE HOLDER. 4. PROVIDE 36" OF CLEARANCE OF ANY CURB (NEW/EXISTING) FOR NEW CONDUITS. 5. EXTEND CONDUIT FROM TRENCH VIA BORE WITH MATCHING CONDUIT AND CONDUCTOR SIZES. 6. NOTE NOT USED. 7. EXTEND BORE CONDUIT VIA TRENCHED CONDUIT. MATCH SIZE OF CONDUIT AND CONDUCTOR. 8. PROVIDE BORE/RECEIVING PIT 9. MAINTAIN 48" CLEARANCE FROM ANY/ALL UTILITY POLES. 10. POTHOLE EXISTING UTILITIES. 11. PROVIDE 1-1/2" C WITH (2) #4 CU THWN AND (1) #10 CU GND. 12. EXTEND EXISTING CIRCUIT TO NEW PULL BOX TO PROVIDE CIRCUIT TO NEW FIXTURES. CONTRACTOR SHALL REMOVE LIGHT/REINSTALL EXISTING FIXTURE AS NEEDED FOR INSTALLATION. 13. REMOVE/REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW PULL BOX AND CONDUITS. 14. EXISTING STREET LIGHT TO REMAIN. SHOWN FOR REFERENCE. 15. REMOVE AND REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW FEEDER. 16. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #1 17. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #2 18. CONTRACTOR SHALL MAINTAIN 24" OF SEPARATION FROM WATER LINE MINIMUM. ANY ADDITIONAL DISTANCE SHALL BE SPLIT BETWEEN THE FRONT OF THE GUTTER AND WATER PIPE EQUALLY. PROVIDE MINIMUM 24" CLEARANCE FROM WATER LINE. DRAWING SHOWN WITH 36" SEPARATION. | <ol style="list-style-type: none"> 20. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #4 21. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #5 22. CONDUIT SHALL BE 24" OFF OF BACK OF SIDEWALK WHERE POSSIBLE. |
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GENERAL NOTES:

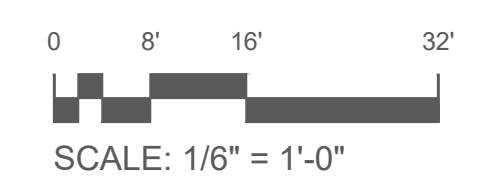
1. FIXTURE TYPE (A) TO BE MOUNTED AT 28' HEIGHT ON POLE. PROVIDE POLE AND FIXTURE PER DETAIL.
2. FIXTURE TYPE (B) IS EXISTING TO REMAIN.
3. BORE LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. CONFIRM EXACT LOCATIONS WITH CITY INSPECTOR PRIOR TO BORING
4. OPEN TRENCH MAY BE REPLACED WITH BORING AS APPROVED BY THE CITY INSPECTOR. NO ADJUSTMENT IN PAYMENT WILL BE PROVIDED FOR SUBSTITUTION OF OPEN CUT TRENCH FOR BORING METHOD AND VICE VERSA.
5. PULL BOX LOCATIONS ARE TO BE DETERMINED IN THE FIELD. ALL PULL BOXES SHALL BE LOCATED ON CITY PROPERTY OR EASEMENTS. NOTE PULL BOXES ARE SHOWN FOR SCHEMATIC PURPOSES AND SHOWN IN APPROXIMATE LOCATIONS.
6. ALL BORED CONDUITS SHALL BE MINIMUM 12" BELOW EXISTING UTILITIES.

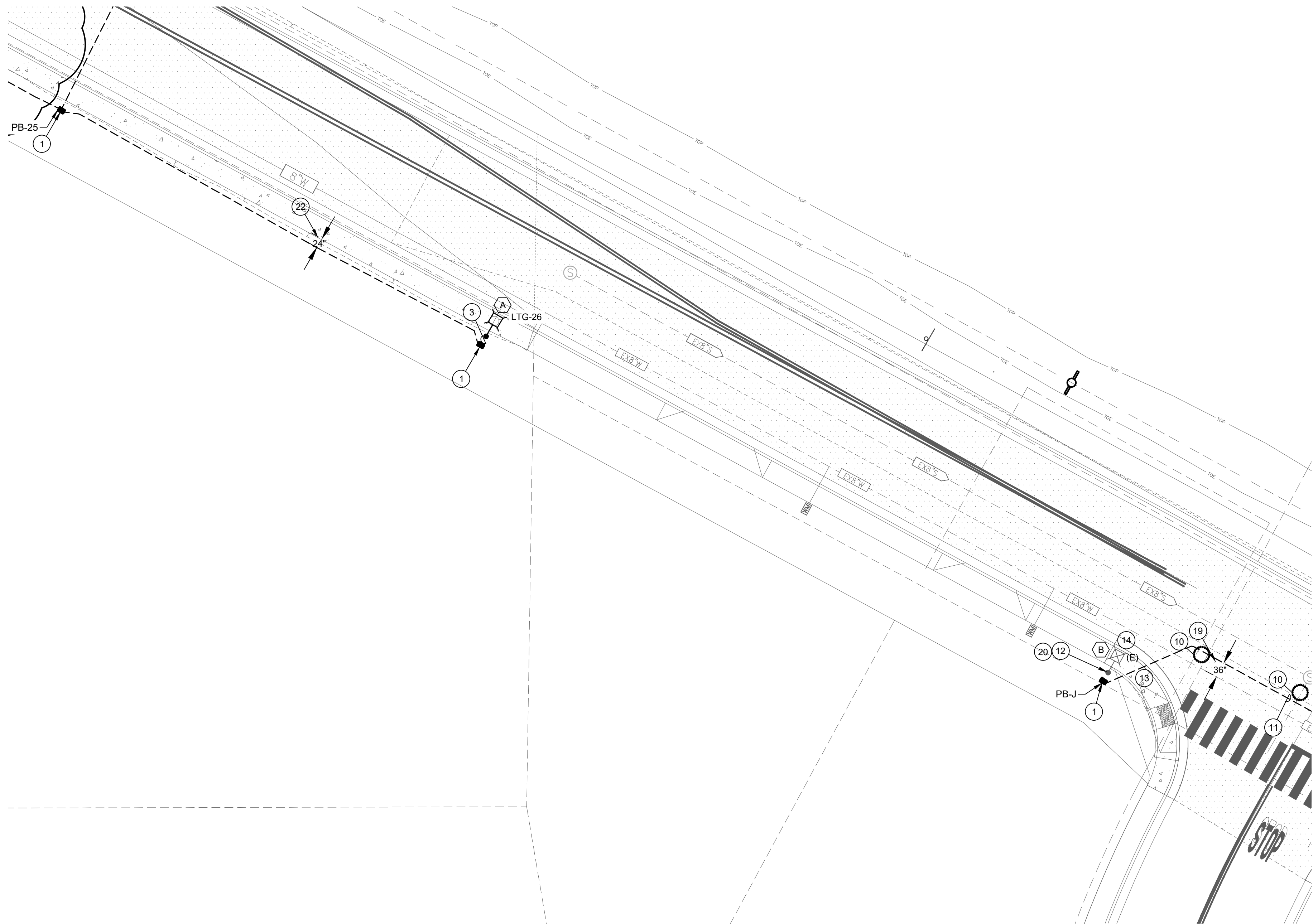
LIGHTING FIXTURE SCHEDULE

DESIG.	SYMBOL	LAMP	DESCRIPTION	MANUFACTURER
(A)		LED	GCJ2-30J-MV-40K-2R-GY-070-PCR7-CR-WL-RWG-BBL-DSC 28' MOUNTING HEIGHT	LEOTEK
(B)		LED	EXISTING FIXTURES TO REMAIN.	N/A BY OTHERS

UNDERGROUND SCHEDULE

	BORE/RECEIVING PIT LOCATIONS. LOCATIONS ARE APPROXIMATE LOCATIONS AND TO BE DETERMINED IN THE FIELD. WORK WITH INSPECTOR AS NEEDED.
	CONDUIT IN THIS SECTION SHALL BE BORED.
	CONDUIT TO BE INSTALLED VIA OPEN TRENCH.
	LOCATE EXISTING UTILITIES VIA POTHOLE PRIOR TO TRENCHING/BORING.





1 PROPOSED LIGHTING PLAN - AREA 13
SCALE: 1/16"=1'-0"

PLAN NOTES:

1. PROVIDE (1) PULL BOX PER DETAIL 5 ON SHEET E3.0 AT THE BASE OF EACH POLE. UPON INSTALLATION OF CONDUCTORS AND SPLICING CONTRACTOR SHALL FILL BOX PER DETAIL #2 ON SHEET E3.0. PROVIDE BOX EXTENSIONS AS NEEDED.
2. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #3
3. PROVIDE (1) 1" C WITH (2) #12 CU THWN AND (1) #12 CU GND FROM PULL BOX TO POLE. PROVIDE 24" OF SLACK IN PULL BOX AND BOTH SIDES OF THE REQUIRED FUSE HOLDER.
4. PROVIDE 36" OF CLEARANCE OF ANY CURB (NEW/EXISTING) FOR NEW CONDUITS.
5. EXTEND CONDUIT FROM TRENCH VIA BORE WITH MATCHING CONDUIT AND CONDUCTOR SIZES.
6. NOTE NOT USED.
7. EXTEND BORE CONDUIT VIA TRENCHED CONDUIT. MATCH SIZE OF CONDUIT AND CONDUCTOR.
8. PROVIDE BORE/RECEIVING PIT
9. MAINTAIN 48" CLEARANCE FROM ANY/ALL UTILITY POLES.
10. POT HOLE EXISTING UTILITIES.
11. PROVIDE 1-1/2" C WITH (2) #4 CU THWN AND (1) #10 CU GND.
12. EXTEND EXISTING CIRCUIT TO NEW PULL BOX TO PROVIDE CIRCUIT TO NEW FIXTURES. CONTRACTOR SHALL REMOVE LIGHT/REINSTALL EXISTING FIXTURE AS NEEDED FOR INSTALLATION.
13. REMOVE/REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW PULL BOX AND CONDUITS.
14. EXISTING STREET LIGHT TO REMAIN. SHOWN FOR REFERENCE.
15. REMOVE AND REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW FEEDER.
16. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #1
17. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #2
18. CONTRACTOR SHALL MAINTAIN 24" OF SEPARATION FROM WATER LINE MINIMUM. ANY ADDITIONAL DISTANCE SHALL BE SPLIT BETWEEN THE FRONT OF THE GUTTER AND WATER PIPE EQUALLY. PROVIDE MINIMUM 24" CLEARANCE FROM WATER LINE. DRAWING SHOWN WITH 36" SEPARATION.

20. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #4
21. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #5
22. CONDUIT SHALL BE 24" OFF OF BACK OF SIDEWALK WHERE POSSIBLE.

GENERAL NOTES:

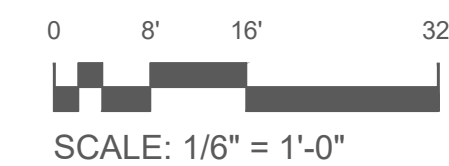
1. FIXTURE TYPE (A) TO BE MOUNTED AT 28' HEIGHT ON POLE. PROVIDE POLE AND FIXTURE PER DETAIL.
2. FIXTURE TYPE (B) IS EXISTING TO REMAIN.
3. BORE LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. CONFIRM EXACT LOCATIONS WITH CITY INSPECTOR PRIOR TO BORING
4. OPEN TRENCH MAY BE REPLACED WITH BORING AS APPROVED BY THE CITY INSPECTOR. NO ADJUSTMENT IN PAYMENT WILL BE PROVIDED FOR SUBSTITUTION OF OPEN CUT TRENCH FOR BORING METHOD AND VICE VERSA.
5. PULL BOX LOCATIONS ARE TO BE DETERMINED IN THE FIELD. ALL PULL BOXES SHALL BE LOCATED ON CITY PROPERTY OR EASEMENTS. NOTE PULL BOXES ARE SHOWN FOR SCHEMATIC PURPOSES AND SHOWN IN APPROXIMATE LOCATIONS.
6. ALL BORED CONDUITS SHALL BE MINIMUM 12" BELOW EXISTING UTILITIES.

LIGHTING FIXTURE SCHEDULE

DESIG.	SYMBOL	LAMP	DESCRIPTION	MANUFACTURER
(A)		LED	GCJ2-30J-MV-40K-2R-GY-070-PCR7-CR-WL-RWG-BBL-DSC 28' MOUNTING HEIGHT	LEOTEK
(B)		LED	EXISTING FIXTURES TO REMAIN.	N/A BY OTHERS

UNDERGROUND SCHEDULE

	BORE/RECEIVING PIT LOCATIONS. LOCATIONS ARE APPROXIMATE LOCATIONS AND TO BE DETERMINED IN THE FIELD. WORK WITH INSPECTOR AS NEEDED.
	CONDUIT IN THIS SECTION SHALL BE BORED.
	CONDUIT TO BE INSTALLED VIA OPEN TRENCH.
	LOCATE EXISTING UTILITIES VIA POT HOLE PRIOR TO TRENCHING/BORING.



**Know what's below.
Call before you dig.**

PERMIT SET

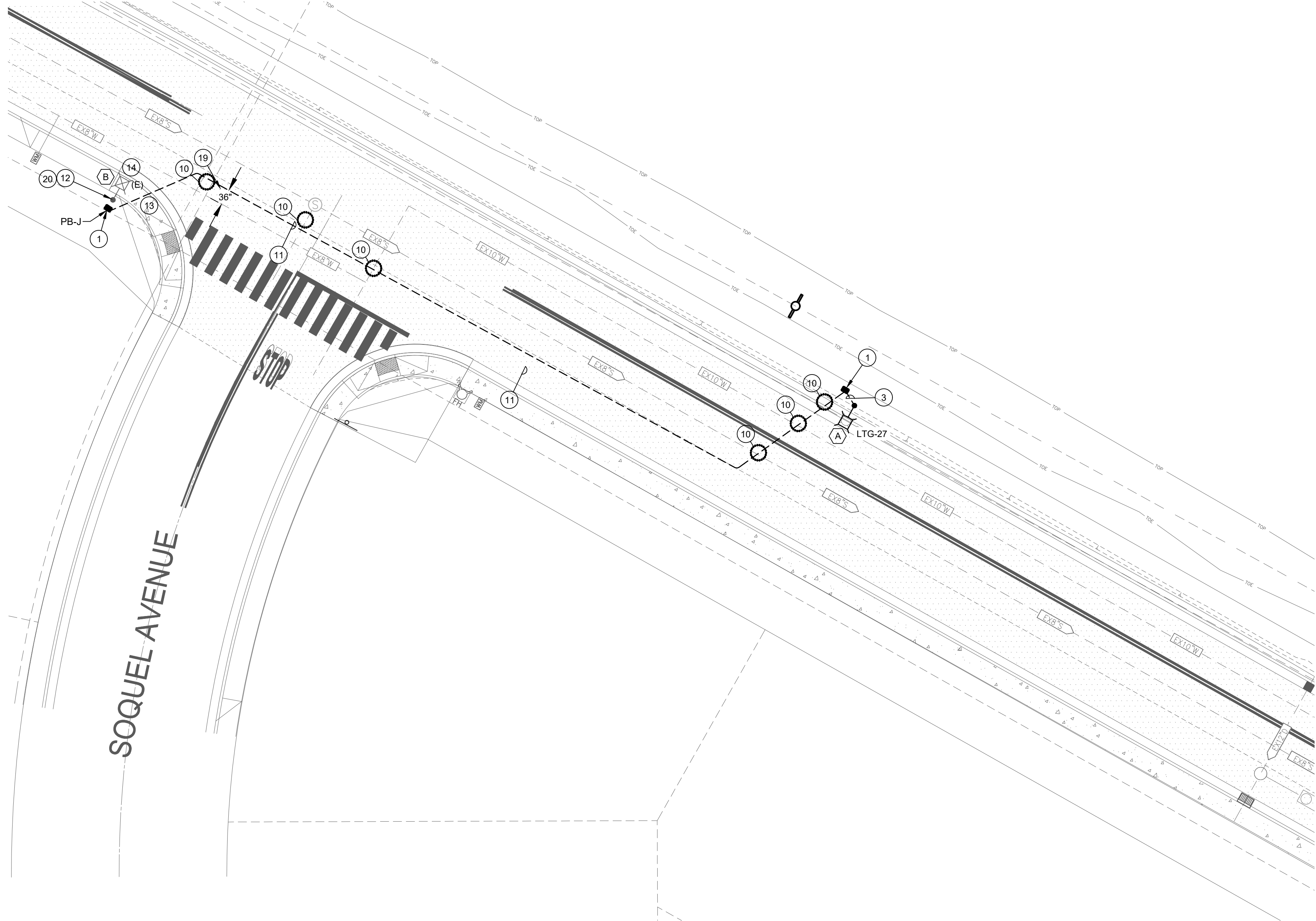
DATE:	March 25, 2024
DRAWN:	Chris Wells
CHECKED:	cw
REVISIONS:	BY
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PROPOSED LIGHTING PLAN - AREA 13
FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III
FRUITLAND AVE
ATWATER, CA



DRAWN BY:	Chris Wells
CHECK BY:	CW
SCALE:	AS SHOWN
DATE:	MARCH 23, 2024
JOB:	23-176

SHEET NO. **E2.13**
77 OF 83 SHEETS



1 PROPOSED LIGHTING PLAN - AREA 14
SCALE: 1/16"=1'-0"

PLAN NOTES:

1. PROVIDE (1) PULL BOX PER DETAIL 5 ON SHEET E3.0 AT THE BASE OF EACH POLE. UPON INSTALLATION OF CONDUCTORS AND SPLICING CONTRACTOR SHALL FILL BOX PER DETAIL #2 ON SHEET E3.0. PROVIDE BOX EXTENSIONS AS NEEDED.
2. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #3
3. PROVIDE (1) 1" C WITH (2) #12 CU THWN AND (1) #12 CU GND FROM PULL BOX TO POLE. PROVIDE 24" OF SLACK IN PULL BOX AND BOTH SIDES OF THE REQUIRED FUSE HOLDER.
4. PROVIDE 36" OF CLEARANCE OF ANY CURB (NEW/EXISTING) FOR NEW CONDUITS.
5. EXTEND CONDUIT FROM TRENCH VIA BORE WITH MATCHING CONDUIT AND CONDUCTOR SIZES.
6. NOTE NOT USED.
7. EXTEND BORE CONDUIT VIA TRENCHED CONDUIT. MATCH SIZE OF CONDUIT AND CONDUCTOR.
8. PROVIDE BORE/RECEIVING PIT
9. MAINTAIN 48" CLEARANCE FROM ANY/ALL UTILITY POLES.
10. POTHOLE EXISTING UTILITIES.
11. PROVIDE 1-1/2" C WITH (2) #4 CU THWN AND (1) #10 CU GND.
12. EXTEND EXISTING CIRCUIT TO NEW PULL BOX TO PROVIDE CIRCUIT TO NEW FIXTURES. CONTRACTOR SHALL REMOVE LIGHT/REINSTALL EXISTING FIXTURE AS NEEDED FOR INSTALLATION.
13. REMOVE/REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW PULL BOX AND CONDUITS.
14. EXISTING STREET LIGHT TO REMAIN. SHOWN FOR REFERENCE.
15. REMOVE AND REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW FEEDER.
16. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #1
17. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #2
18. CONTRACTOR SHALL MAINTAIN 24" OF SEPARATION FROM WATER LINE MINIMUM. ANY ADDITIONAL DISTANCE SHALL BE SPLIT BETWEEN THE FRONT OF THE GUTTER AND WATER PIPE EQUALLY. PROVIDE MINIMUM 24" CLEARANCE FROM WATER LINE. DRAWING SHOWN WITH 36" SEPARATION.

20. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #4
21. SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #5
22. CONDUIT SHALL BE 24" OFF OF BACK OF SIDEWALK WHERE POSSIBLE.

GENERAL NOTES:

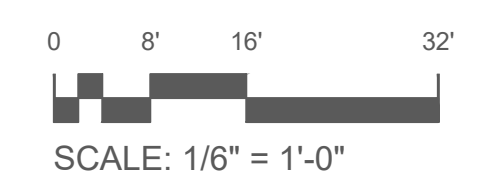
1. FIXTURE TYPE (A) TO BE MOUNTED AT 28' HEIGHT ON POLE. PROVIDE POLE AND FIXTURE PER DETAIL.
2. FIXTURE TYPE (B) IS EXISTING TO REMAIN.
3. BORE LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. CONFIRM EXACT LOCATIONS WITH CITY INSPECTOR PRIOR TO BORING
4. OPEN TRENCH MAY BE REPLACED WITH BORING AS APPROVED BY THE CITY INSPECTOR. NO ADJUSTMENT IN PAYMENT WILL BE PROVIDED FOR SUBSTITUTION OF OPEN CUT TRENCH FOR BORING METHOD AND VICE VERSA.
5. PULL BOX LOCATIONS ARE TO BE DETERMINED IN THE FIELD. ALL PULL BOXES SHALL BE LOCATED ON CITY PROPERTY OR EASEMENTS. NOTE PULL BOXES ARE SHOWN FOR SCHEMATIC PURPOSES AND SHOWN IN APPROXIMATE LOCATIONS.
6. ALL BORED CONDUITS SHALL BE MINIMUM 12" BELOW EXISTING UTILITIES.

LIGHTING FIXTURE SCHEDULE

DESIG.	SYMBOL	LAMP	DESCRIPTION	MANUFACTURER
(A)		LED	GCJ2-30J-MV-40K-2R-GY-070-PCR7-CR-WL-RWG-BBL-DSC 28' MOUNTING HEIGHT	LEOTEK
(B)		LED	EXISTING FIXTURES TO REMAIN.	N/A BY OTHERS

UNDERGROUND SCHEDULE

	BORE/RECEIVING PIT LOCATIONS. LOCATIONS ARE APPROXIMATE LOCATIONS AND TO BE DETERMINED IN THE FIELD. WORK WITH INSPECTOR AS NEEDED.
	CONDUIT IN THIS SECTION SHALL BE BORED.
	CONDUIT TO BE INSTALLED VIA OPEN TRENCH.
	LOCATE EXISTING UTILITIES VIA POTHOLE PRIOR TO TRENCHING/BORING.



PERMIT SET

DATE: March 25, 2024
DRAWN: Chris Wells
CHECKED: cw

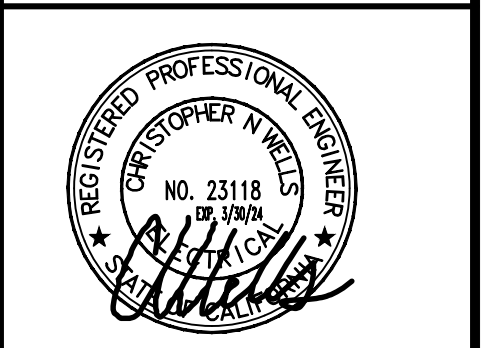
REVISIONS:

NO.	DESCRIPTION	BY

PROPOSED LIGHTING PLAN - AREA 14

**FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III**

FRUITLAND AVE
ATWATER, CA



DRAWN BY: Chris Wells
CHECK BY: CW
SCALE: AS SHOWN
DATE: MARCH 23, 2024
JOB: 23-176

03/25/24 3:17:24 PM F:\2023\176 FRUITLAND AVE RECONSTRUCTION\ENR\DESIGN\NEW SHEET SETS\SHEETS\PROPOSED LIGHTING PLAN.DWG cwells

PERMIT SET

DATE: March 25, 2024

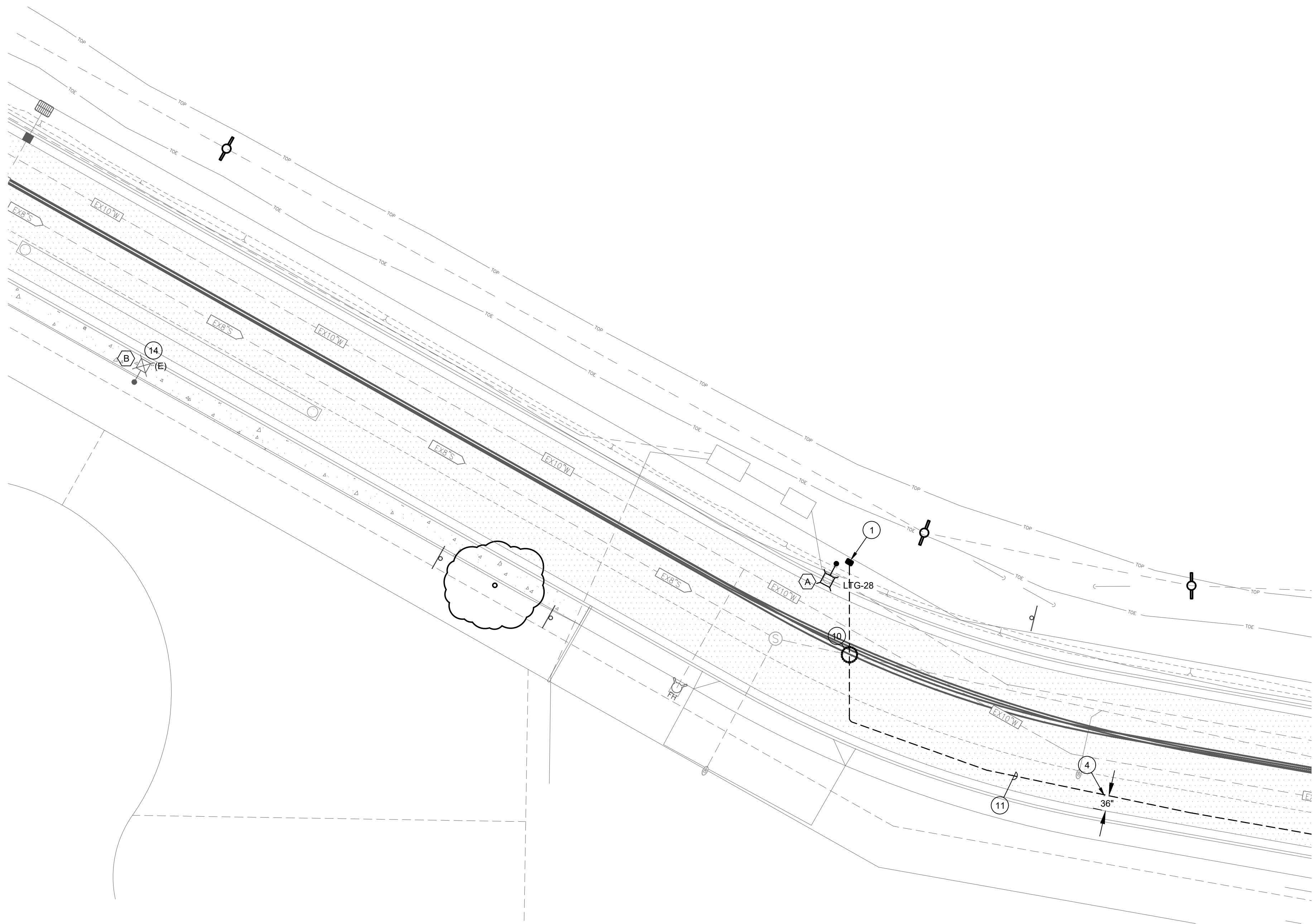
DRAWN: Chris Wells

CHECKED: cw

REVISIONS: BY

NO.	DESCRIPTION	BY

PROPOSED LIGHTING PLAN - AREA 15
**FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III**
FRUITLAND AVE
ATWATER, CA



1 PROPOSED LIGHTING PLAN - AREA 15
SCALE: 1/16"=1'-0"

PLAN NOTES:

- PROVIDE (1) PULL BOX PER DETAIL 5 ON SHEET E3.0 AT THE BASE OF EACH POLE. UPON INSTALLATION OF CONDUCTORS AND SPlicing CONTRACTOR SHALL FILL BOX PER DETAIL #2 ON SHEET E3.0. PROVIDE BOX EXTENSIONS AS NEEDED.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #3
- PROVIDE (1) 1" C WITH (2) #12 CU THWN AND (1) #12 CU GND FROM PULL BOX TO POLE. PROVIDE 24" OF SLACK IN PULL BOX AND BOTH SIDES OF THE REQUIRED FUSE HOLDER.
- PROVIDE 36" OF CLEARANCE OF ANY CURB (NEW/EXISTING) FOR NEW CONDUITS.
- EXTEND CONDUIT FROM TRENCH VIA BORE WITH MATCHING CONDUIT AND CONDUCTOR SIZES.
- NOTE NOT USED.
- EXTEND BORE CONDUIT VIA TRENCHED CONDUIT. MATCH SIZE OF CONDUIT AND CONDUCTOR.
- PROVIDE BORE/RECEIVING PIT
- MAINTAIN 48" CLEARANCE FROM ANY/ALL UTILITY POLES.
- POTHOLE EXISTING UTILITIES.
- PROVIDE 1-1/2" C WITH (2) #4 CU THWN AND (1) #10 CU GND.
- EXTEND EXISTING CIRCUIT TO NEW PULL BOX TO PROVIDE CIRCUIT TO NEW FIXTURES. CONTRACTOR SHALL REMOVE LIGHT/REINSTALL EXISTING FIXTURE AS NEEDED FOR INSTALLATION.
- REMOVE/REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW PULL BOX AND CONDUITS.
- EXISTING STREET LIGHT TO REMAIN. SHOWN FOR REFERENCE.
- REMOVE AND REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW FEEDER.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #1
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #2
- CONTRACTOR SHALL MAINTAIN 24" OF SEPARATION FROM WATER LINE MINIMUM. ANY ADDITIONAL DISTANCE SHALL BE SPLIT BETWEEN THE FRONT OF THE GUTTER AND WATER PIPE EQUALLY.
- PROVIDE MINIMUM 24" CLEARANCE FROM WATER LINE. DRAWING SHOWN WITH 36" SEPARATION.

- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #4
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #5
- CONDUIT SHALL BE 24" OFF OF BACK OF SIDEWALK WHERE POSSIBLE.

GENERAL NOTES:

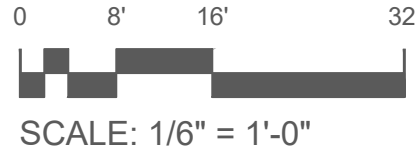
- FIXTURE TYPE (A) TO BE MOUNTED AT 28' HEIGHT ON POLE. PROVIDE POLE AND FIXTURE PER DETAIL.
- FIXTURE TYPE (B) IS EXISTING TO REMAIN.
- BORE LOCATIONS ARE SHOWN FOR SCHEMATIC PURPOSES. CONFIRM EXACT LOCATIONS WITH CITY INSPECTOR PRIOR TO BORING
- OPEN TRENCH MAY BE REPLACED WITH BORING AS APPROVED BY THE CITY INSPECTOR. NO ADJUSTMENT IN PAYMENT WILL BE PROVIDED FOR SUBSTITUTION OF OPEN CUT TRENCH FOR BORING METHOD AND VICE VERSA.
- PULL BOX LOCATIONS ARE TO BE DETERMINED IN THE FIELD. ALL PULL BOXES SHALL BE LOCATED ON CITY PROPERTY OR EASEMENTS - NOTE PULL BOXES ARE SHOWN FOR SCHEMATIC PURPOSES AND SHOWN IN APPROXIMATE LOCATIONS.
- ALL BORED CONDUITS SHALL BE MINIMUM 12" BELOW EXISTING UTILITIES.

LIGHTING FIXTURE SCHEDULE

DESIG.	SYMBOL	LAMP	DESCRIPTION	MANUFACTURER
(A)		LED	GCJ2-30J-MV-40K-2R-GY-070-PCR7-CR-WL-RWG-BBL-DSC 28' MOUNTING HEIGHT	LEOTEK
(B)		LED	EXISTING FIXTURES TO REMAIN.	N/A BY OTHERS

UNDERGROUND SCHEDULE

	BORE/RECEIVING PIT LOCATIONS. LOCATIONS ARE APPROXIMATE LOCATIONS AND TO BE DETERMINED IN THE FIELD. WORK WITH INSPECTOR AS NEEDED.
	CONDUIT IN THIS SECTION SHALL BE BORED.
	CONDUIT TO BE INSTALLED VIA OPEN TRENCH.
	LOCATE EXISTING UTILITIES VIA POT HOLE PRIOR TO TRENCHING/BORING.



Know what's below.
Call before you dig.



DRAWN BY: Chris Wells

CHECK BY: CW

SCALE: AS SHOWN

DATE: MARCH 23, 2024

JOB: 23-176

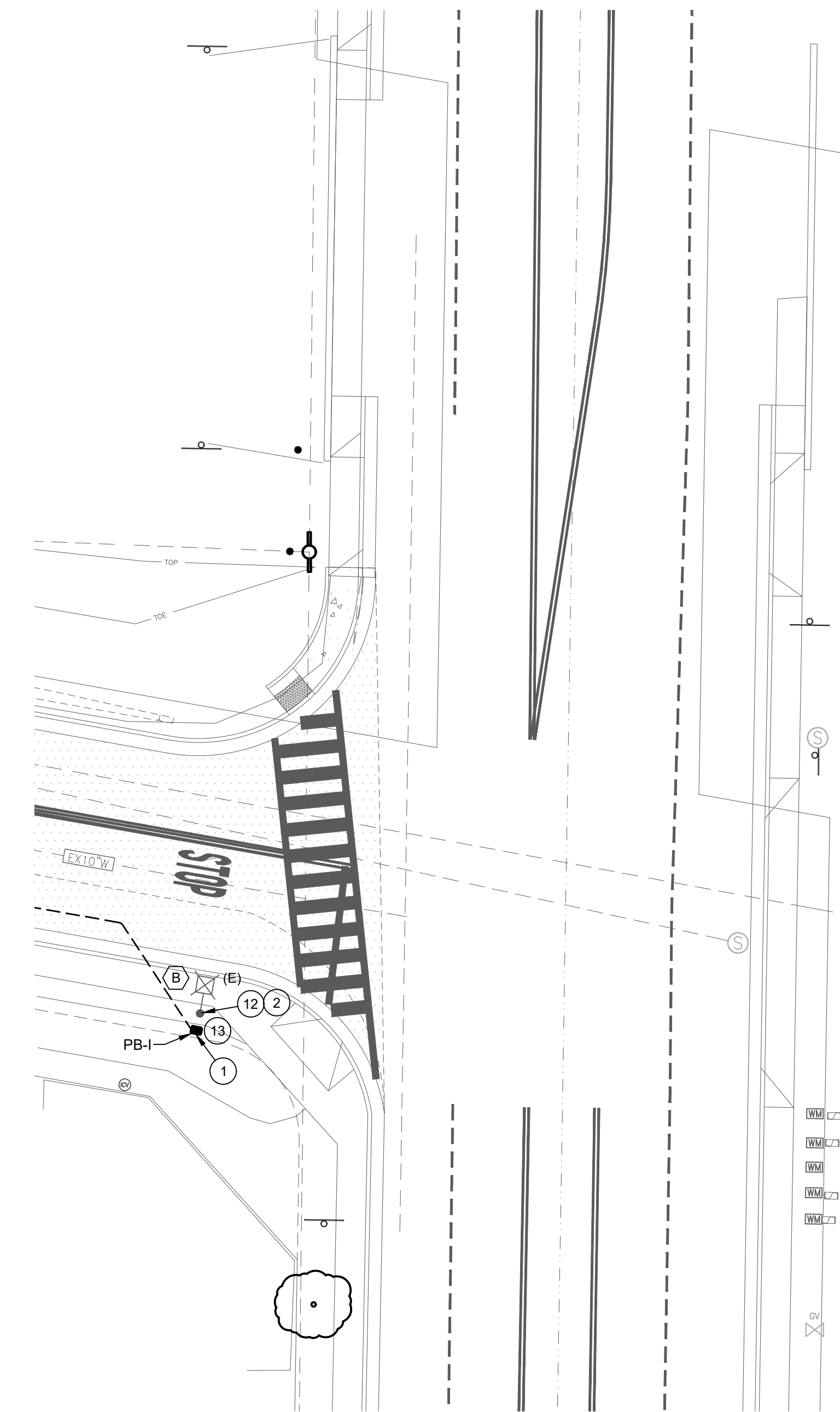
SHEET NO. E2.15

79 OF 83 SHEETS

PERMIT SET

DATE:	March 25, 2024
DRAWN:	Chris Wells
CHECKED:	cw
REVISIONS:	BY
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PROPOSED LIGHTING PLAN - AREA 16
**FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III**
FRUITLAND AVE
ATWATER, CA



1 PROPOSED LIGHTING PLAN - AREA 16
SCALE: 1/16"=1'-0"

PLAN NOTES:

- PROVIDE (1) PULL BOX PER DETAIL 5 ON SHEET E3.0 AT THE BASE OF EACH POLE. UPON INSTALLATION OF CONDUCTORS AND SPlicing CONTRACTOR SHALL FILL BOX PER DETAIL #2 ON SHEET E3.0. PROVIDE BOX EXTENSIONS AS NEEDED.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #3
- PROVIDE (1) 1" C WITH (2) #12 CU THWN AND (1) #12 CU GND FROM PULL BOX TO POLE. PROVIDE 24" OF SLACK IN PULL BOX AND BOTH SIDES OF THE REQUIRED FUSE HOLDER.
- PROVIDE 36" OF CLEARANCE OF ANY CURB (NEW/EXISTING) FOR NEW CONDUITS.
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- NOTE NOT USED.
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- PROVIDE BORE/RECEIVING PIT
- MAINTAIN 48" CLEARANCE FROM ANY/ALL UTILITY POLES.
- POTHOLE EXISTING UTILITIES.
- PROVIDE 1-1/2" C WITH (2) #4 CU THWN AND (1) #10 CU GND.
- EXTEND EXISTING CIRCUIT TO NEW PULL BOX TO PROVIDE CIRCUIT TO NEW FIXTURES. CONTRACTOR SHALL REMOVE LIGHT/REINSTALL EXISTING FIXTURE AS NEEDED FOR INSTALLATION.
- REMOVE/REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW PULL BOX AND CONDUITS.
- EXISTING STREET LIGHT TO REMAIN. SHOWN FOR REFERENCE.
- REMOVE AND REPLACE EXISTING CONCRETE AS NEEDED TO INSTALL NEW FEEDER.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #1
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #2
- CONTRACTOR SHALL MAINTAIN 24" OF SEPARATION FROM WATER LINE MINIMUM. ANY ADDITIONAL DISTANCE SHALL BE SPLIT BETWEEN THE FRONT OF THE GUTTER AND WATER PIPE EQUALLY. PROVIDE MINIMUM 24" CLEARANCE FROM WATER LINE. DRAWING SHOWN WITH 36" SEPARATION.
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #4
- SEE RISER DIAGRAM ON SHEET E4.0 DETAIL #5
- CONDUIT SHALL BE 24" OFF OF BACK OF SIDEWALK WHERE POSSIBLE.

GENERAL NOTES:

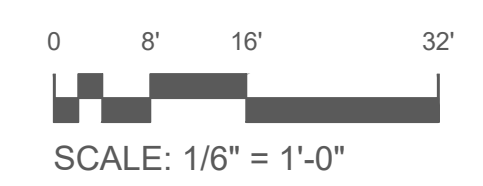
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- OPEN TRENCH MAY BE REPLACED WITH BORING AS APPROVED BY THE CITY INSPECTOR. NO ADJUSTMENT IN PAYMENT WILL BE PROVIDED FOR SUBSTITUTION OF OPEN CUT TRENCH FOR BORING METHOD AND VICE VERSA.
- PULL BOX LOCATIONS ARE TO BE DETERMINED IN THE FIELD. ALL PULL BOXES SHALL BE LOCATED ON CITY PROPERTY OR EASEMENTS - NOTE PULL BOXES ARE SHOWN FOR SCHEMATIC PURPOSES AND SHOWN IN APPROXIMATE LOCATIONS.
- ALL BORED CONDUITS SHALL BE MINIMUM 12" BELOW EXISTING UTILITIES.

LIGHTING FIXTURE SCHEDULE

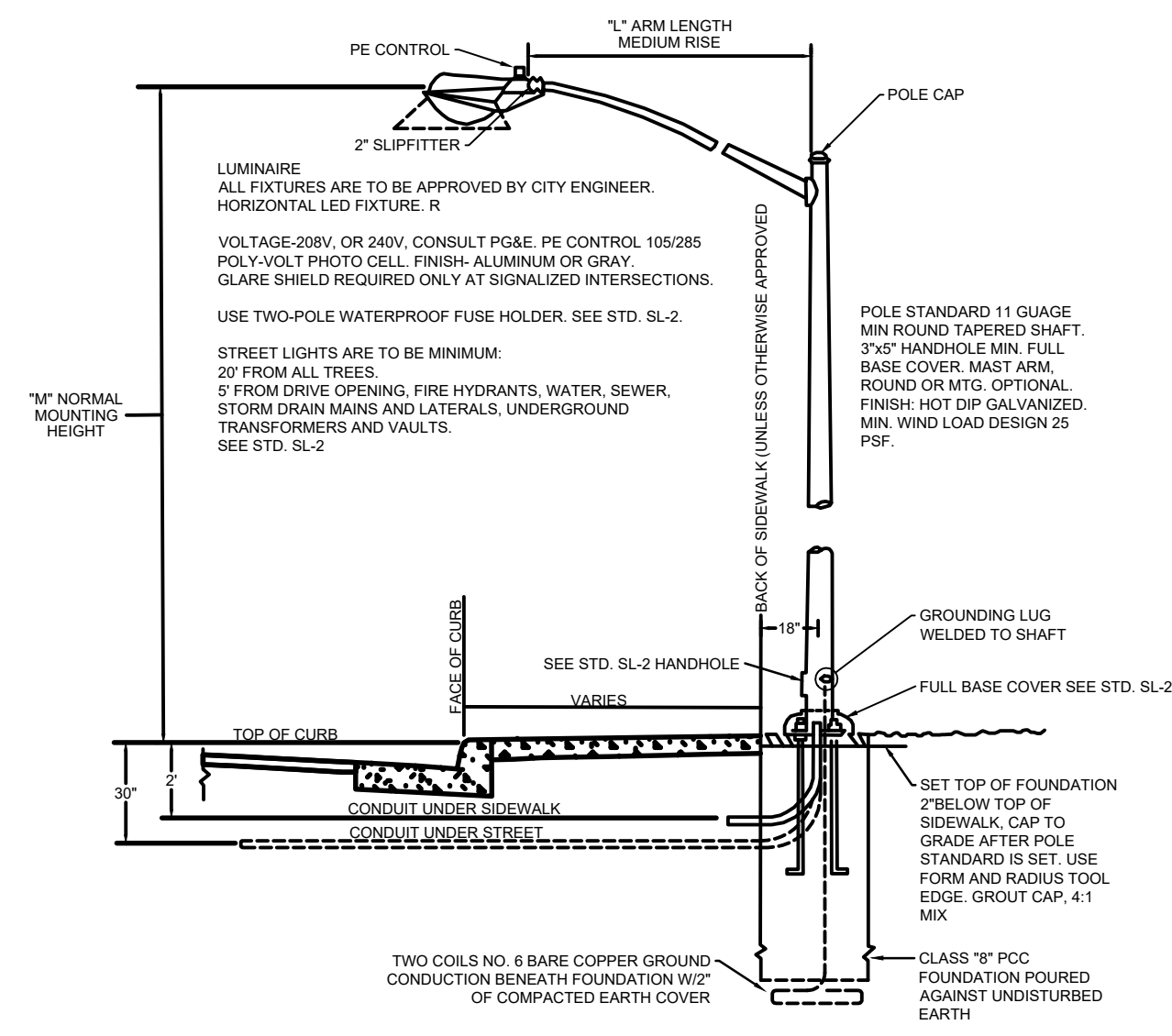
DESIG.	SYMBOL	LAMP	DESCRIPTION	MANUFACTURER
(A)		LED	GCJ2-30J-MV-40K-2R-GY-070-PCR7-CR-WL-RWG-BBL-DSC 28' MOUNTING HEIGHT	LEOTEK
(B)		LED	EXISTING FIXTURES TO REMAIN.	N/A BY OTHERS

UNDERGROUND SCHEDULE

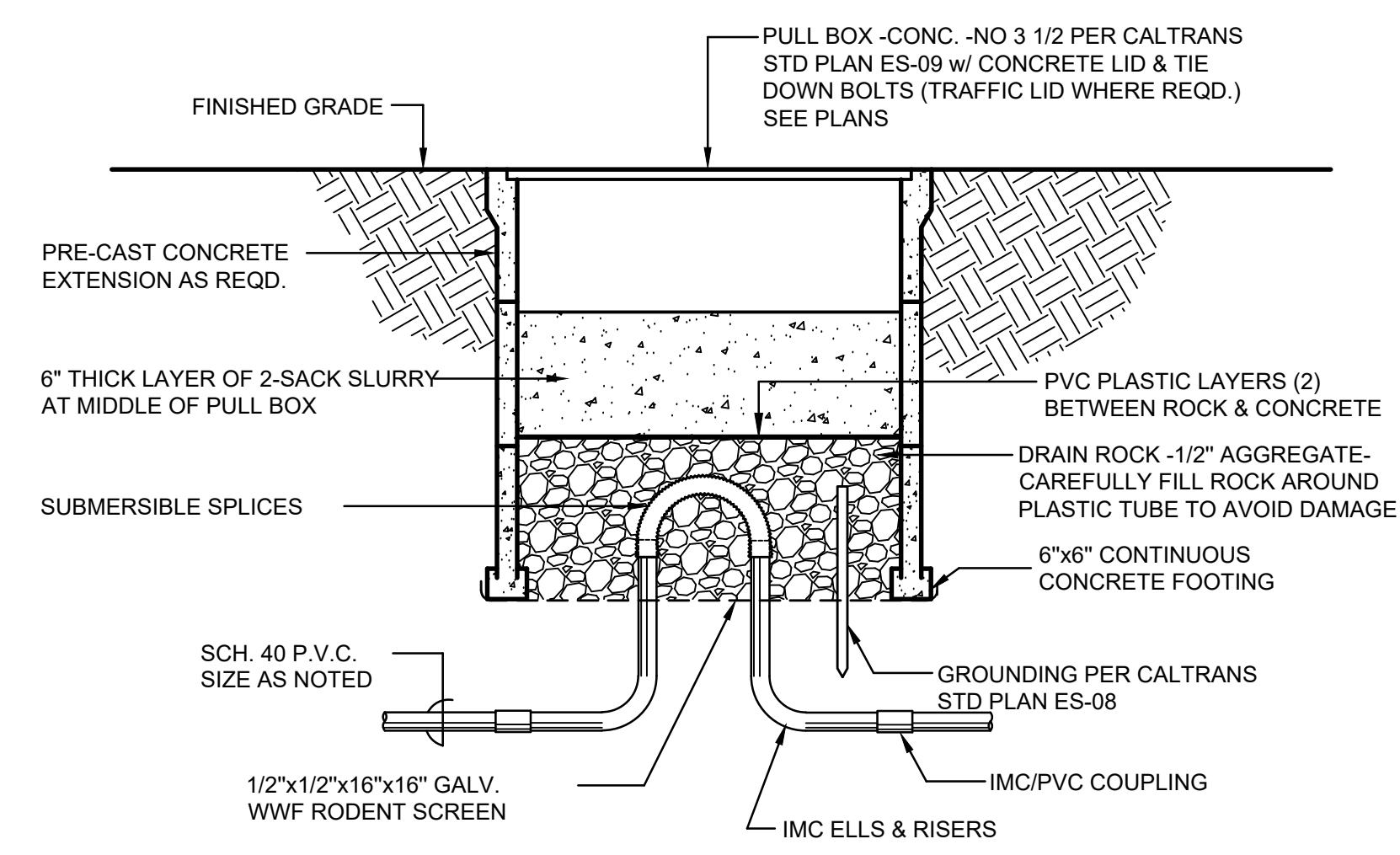
	BORE/RECEIVING PIT LOCATIONS. LOCATIONS ARE APPROXIMATE LOCATIONS AND TO BE DETERMINED IN THE FIELD. WORK WITH INSPECTOR AS NEEDED.
	CONDUIT IN THIS SECTION SHALL BE BORED.
	CONDUIT TO BE INSTALLED VIA OPEN TRENCH.
	LOCATE EXISTING UTILITIES VIA POTHOLE PRIOR TO TRENCHING/BORING.



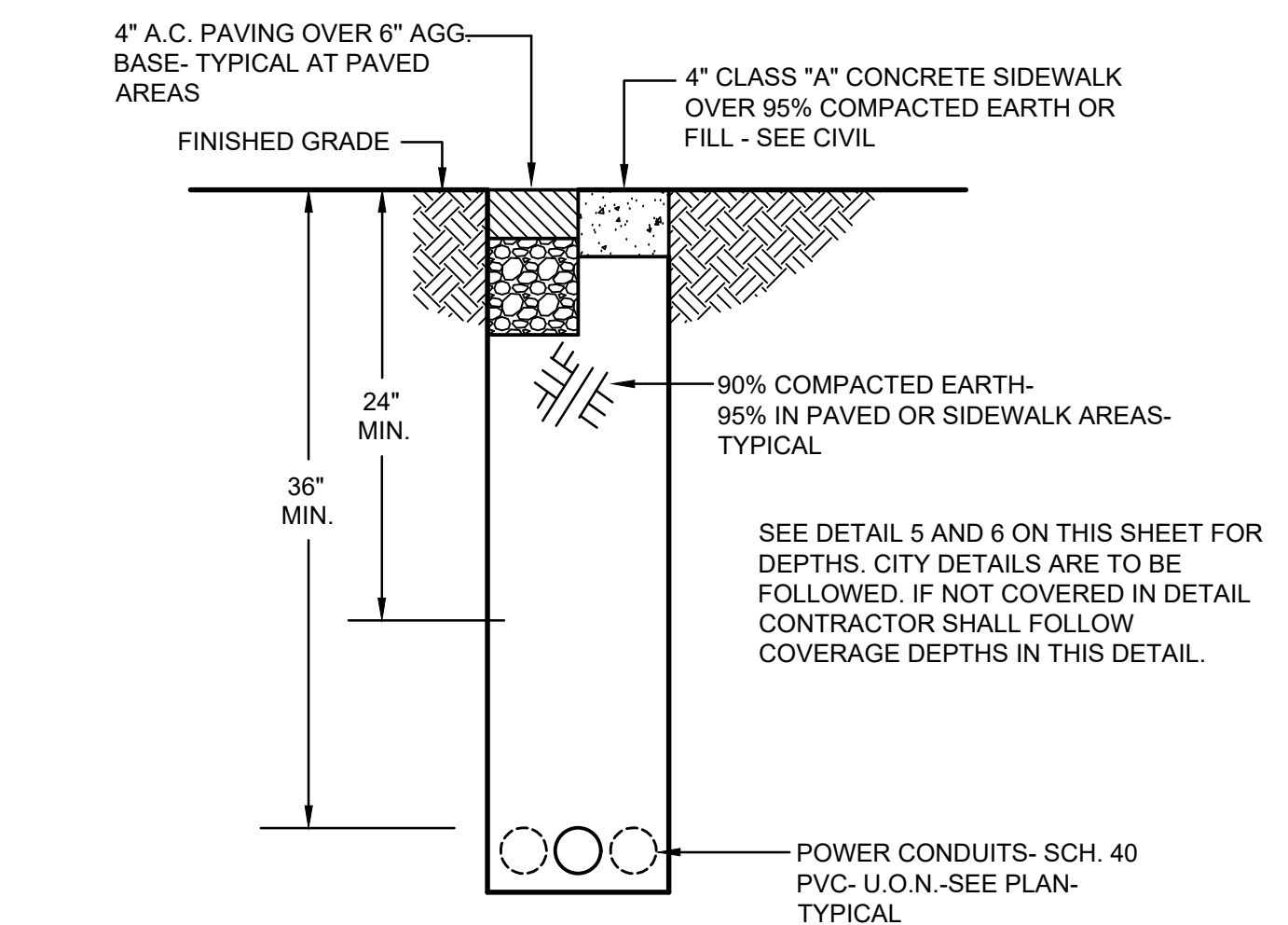
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CHECK BY:	CW
SCALE:	AS SHOWN
DATE:	MARCH 23, 2024
JOB:	23-176



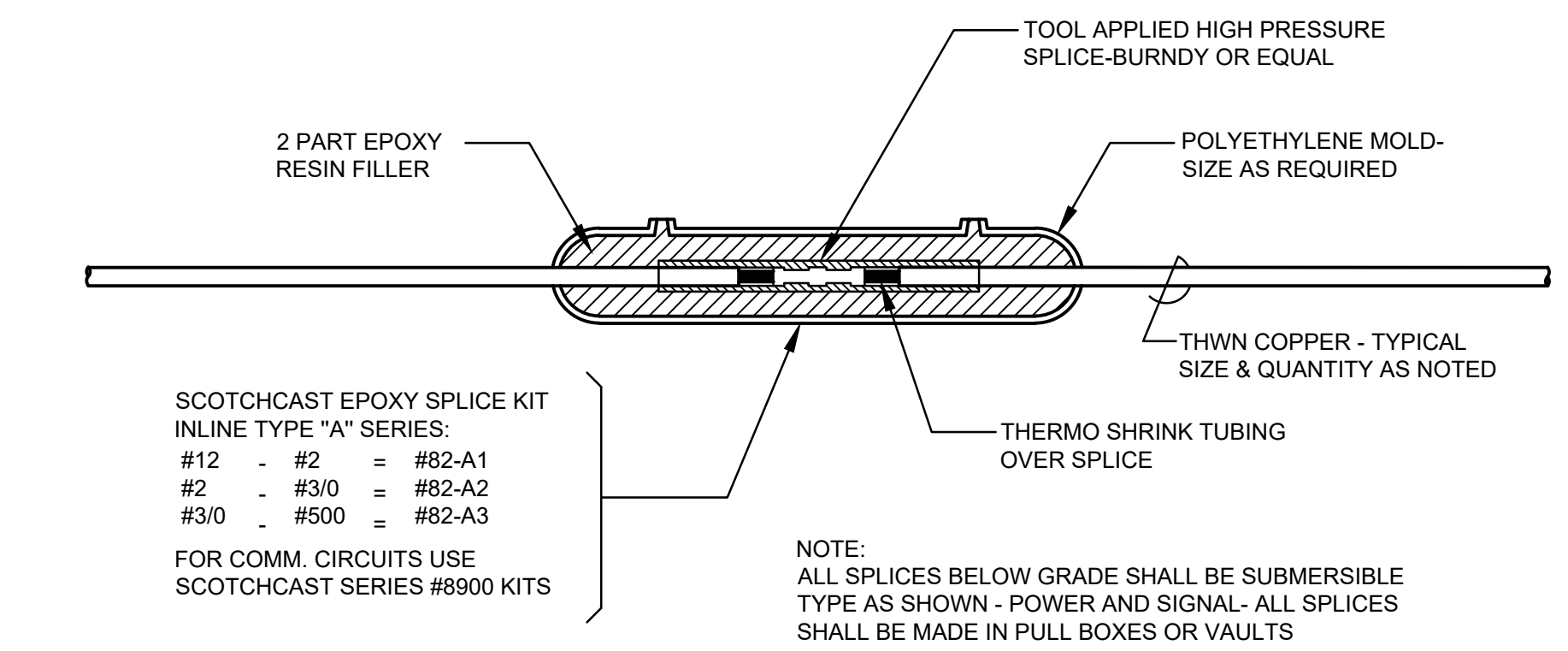
4 GROUNDING & POLE MOUNTING
SCALE: N.T.S.



2 PULL BOX - TYPICAL
SCALE: N.T.S.



1 ELECTRICAL TRENCH SECTION - TYPICAL
SCALE: N.T.S.



3 SUBMERSIBLE SPLICE - TYPICAL
SCALE: N.T.S.

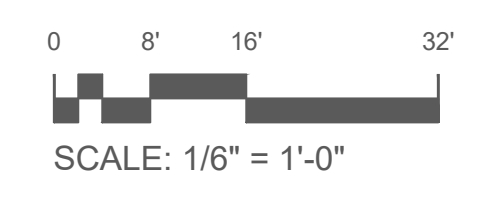
PERMIT SET

DATE:	March 23, 2024
DRAWN:	Chris Wells
CHECKED:	cw
REVISIONS:	BY
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▲	---
▲	---

**FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III**
 FRUITLAND AVE
 ATWATER, CA



DRAWN BY:	Chris Wells
CHECK BY:	CW
SCALE:	AS SHOWN
DATE:	MARCH 23, 2024
JOB:	23-176
SHEET NO.	E3.0

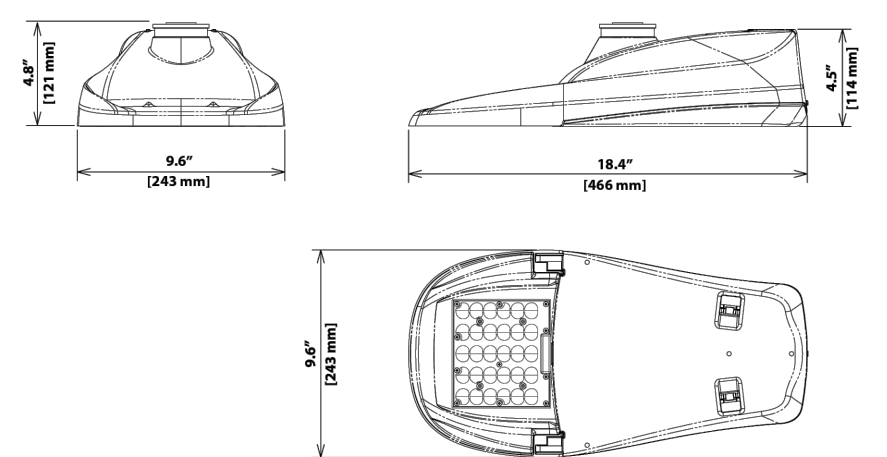




GreenCobra™ Jr. LED Street Light GCJ J-Series Specification Data Sheet

Luminaire Data

Weight 7.7 lbs [3.5 kg]
EPA 0.39 ft²



Project _____
Type _____
Catalog No. _____

Ordering Information

Sample Catalog No. GCJ1-30J-MV-40K-2R-GY055-PCR7-WL

Model#	LED Code	Voltage	Color Temperature	Distribution	Finish ¹	Output Code ²	Options
GCJ1*	30J	MV 120-277V	27K 2700K	2R Type 2	GY Gray	Refer to Page 3 to select the performance code.	FOC ¹ Fixed Output Code LPCR Less Photocontrol Receptacle PCR7 ¹ ANSI 7-wire Photocontrol Receptacle PCR7-CR ¹ Control Leads 7-wire PCR Receptacle MSL3 Motion Sensor, L3 Lens MSL7 Motion Sensor, L7 Lens WL Utility Wattage Label 4B 4-Bolt Mounting Bracket RWG Rubber Wildlife Guard SWTB Straight Wire Terminal Block BBL Bubble Level DSC Door Safety Cable CP ¹ Coastal Paint Finish SP2 ² Extreme Surge Protection, 20KV/10KA, Fail-to-on LSSP2 ² Extreme Surge Protection, Fail-to-off, 20KV/10KA Rating
GCJ2*		HV 347-480V	30K 3000K	3R Type 3R	DB Dark Bronze		
GCJ3*			40K 4000K	3F Type 3F			
GCJ4*			50K 5000K	4 Type 4	BK Black		
				5 Type 5			

* Refer to performance data table on page 3, 4 for specific model with corresponding output code

- Notes:
- Gray, Black, and Dark Bronze standard. Consult factory for other finishes. See page 2 for RAL codes of Standard finishes.
 - Specified output code is the factory set lumen performance. Refer to performance data table on page 3, 4 of this spec sheet. Field adjustable output selector enables future to be changed in the field to adjust light output for local conditions (not available with Fixed Output Code, FOC) or PCR7-CR option. Consult factory if wattage limits require a special driver current.
 - Non-field adjustable, fixed output code. Specify required output code. Not available with PCR7-CR option.
 - Includes output selector that enables field adjustability of light levels. Includes connectors to allow easy upgrade of wireless dimming via PCR7. Wireless node by others.
 - Control-ready wired at factory for wireless node dimming (node by others). Output selector not included in the fixture. Not able to adjust above specified output code.
 - Specify the CP Option for coastal installation. See warranty for details.
 - Standard surge protection, 10KV/9KA, fail-to-on, meets enhanced surge protection based on ANSI 136.25-2015 3-part test.
 - Flush-mounted house side shield. Shield cuts light off at 1 mounting height behind luminaire. Gray frame with black louvers.
 - Flush-mounted cul-de-sac shield. Shield cuts light off at 1 mounting height behind luminaire and 2 times the mounting height on either side of luminaire. Gray frame with black louvers.
 - Flush mounted front side shield cuts light off at approximately 1 1/2 mounting height in front of luminaire (street side). Gray frame with black louvers.
 - Specify Color (GY, DB, BK). Refer to Leotek web site for specific mounting details and drawings at: <https://leotek.com/lighting-library/>
 - Specify MV (120-277V) or HV (347-480V).

Accessories²

HSSIGC ¹	House Side Shield, Snap-On*
CSIGC ¹	Cul-De-Sac Side Shield, Snap-On*
FSSIGC ¹	Front Side Shield, Snap-On*
SPB ¹	Square Pole Horizontal Arm Bracket
RPB ¹	Round Pole Horizontal Arm Bracket
PTB ¹	Pole Top Tenon Horizontal Arm Bracket
PTB2 ¹	Pole Top Tenon Horizontal Arm Bracket (2 @ 180°)
WB ¹	Wall Horizontal Arm Bracket
BSK	Bird Deterrent Spider Kit
LPC ¹	Long Life Twist Lock Photocontrol
SC	Twist Lock Shorting Cap

* Unless specified for field installation, Shields and Shorting Caps are shipped installed. All other options are shipped separately.



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GreenCobra™ Jr. LED Street Light GCJ J-Series Specification Data Sheet

Luminaire Specifications

Housing

Die cast aluminum housing with universal two-bolt slip fitter mounts to 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter mast arm. One-piece aluminum housing provides passive heat-sinking of the LEDs and has upper surfaces that shed precipitation. Four-bolt mounting bracket (4B option) is available. Mounting provisions meet 3G vibration per ANSI C136.31-2010 Normal Application, Bridge & Overpass by independent lab. Mounting has leveling adjustment from ± 5° in 2.5° steps. All hardware is stainless steel. Electrical components are accessed without tools via die cast aluminum door with stainless steel quick release latches. Provided standard with removable polycarbonate wild life guard. For additional protection, optional rubber wildlife guard (RWG) which conforms snugly to the mast arm is offered.

Light Emitting Diodes

LEDs produce minimum 90% of initial intensity at 60,000 hours of life per IES recommended lumen maintenance life projection based on 6 times the duration of the collected LM-80 data. For details on IESNA Position on LED Product Lifetime Prediction, P5-10-18. LEDs have correlated color temperature of 2700K (27K), 3000K (30K), 4000K (40K), or 5000K (50K) and 70 CRI minimum. LEDs are RoHS compliant, 100% mercury and lead free.

Field Adjustability

LED lumen output can be changed in the field to adjust light output for local conditions (not available with PCR7-CR option). The specified output code will be the factory set output. Field adjustments can be made with the output selector included in the fixture. Field adjustable range shown in performance data table.

Quality Control

Every luminaire is performance tested before and after a 2-hour burn-in period. Assembled in the USA.

Optical Systems

Micro-lens optical systems produce IESNA Type 2, Type 3, Type 4, or Type 5 distributions and are fully sealed to maintain an IP66 rating. Luminaire produces 0% total lumens above 90° (BUG Rating, In-0). Optional house side shield cuts light off at 1/2 mounting height behind luminaire. Front side shield cuts light off at approximately one mounting height in front of the luminaire (street side). Cul-de-sac shield provides back and side light control for end of cul-de-sac applications. All shields are field installable without tools.

Electrical

Rated life of electrical components is 100,000 hours. Uses isolated power supply that is 1-10V dimmable. Power supply is wired with quick-disconnect terminals. EMC meets or exceeds FCC Part 15. Terminal block accommodates 6 to 14 gauge wire. Surge protection complies with IEEE/ANSI C62.41 Category C High, 10KV/5KA and ANSI C136.2-2015, 3-part test.

Power Supply

IP66 rated power supply with high power factor > 90%. Auto sensing universal AC input from 120 to 277VAC (MV model) and 347 to 480VAC (HV model) rated for both line to line and line to neutral applications. Maximum THD rating of 20%. Class 1 or Class 2. Built-in overheating protection mechanism will reduce drive current to LEDs and electrical components if the driver experiences unusual internal overheating situation. Built-in short circuit, voltage overload, and current overload protection with automatic recovery after correction.

Controls

3-Wire photocontrol receptacle is standard. ANSI C136.41 7-wire (PCR7) photocontrol receptacles is available. All photocontrol receptacles have tool-less rotatable bases. Wireless control module is provided by others.

Finish

Housing receives a durable, fade-resistant polyester powder coat finish with 3.0 mil nominal thickness. Standard finish tested to withstand 5000 hours in salt spray exposure per ASTM B117 and Coastal Finish per ASTM G85. Finish meets scribe creepage rating 8 per ASTM D1654. Finish tested 500 hours in UV exposure per ASTM G154 and meets ASTM D523 gloss retention.

Listings/Ratings/Labels

Luminaires are UL listed for use in wet locations in the United States and Canada. DesignLights Consortium™ qualified product. Consult DLC QPL for Standard and Premium Classification Listings. All electronic components inside of the luminaire are NRTL damp location rated per ANSI 136.37-2011 Ingress Protection standard. International Dark Sky Association listed. Luminaire is qualified to operate at ambient temperatures of -40°C to 40°C. Assembled in the U.S.A.

Photometry

Luminaires photometrics are tested by certified independent testing laboratories in accordance with IES LM-79 testing procedures.

Warranty

10-year limited warranty is standard on luminaire and components. See Leotek.com for warranty details.

Vandal Resistance

Housing and optics rated to IK10

Certification and Compliance

Luminaire complies with:
ANSI C136.2, C136.3, C136.10, C136.13, C136.15, C136.22, C136.31, C136.35, C136.37, C136.41, C62.41, C78.37, C82.77
Other: FCC 47 CFR, IEC 60598, ROHS II, UL 1449, UL 1598

Color Specifications

Order Code	Color	RAL #	Pantone Equivalent
GY	Gray	7040	429C
BK	Black	9004	426C
DB	Dark Bronze	6022	BLACK 2C

TM21 Lumen Maintenance per IES TM21-11 Calculation

Model Number	60,000 Hours*	80,000 Hours	100,000 Hours
GCJ1/2/3 30J	>98.9%	>98.7%	>98.5%
GCJ4	>92.4%	>90.6%	>88.7%

* Calculation based on IES position statement on Lumen Maintenance Life Projections

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GreenCobra™ Jr. LED Street Light GCJ J-Series Specification Data Sheet

Performance Data: 2700K (27K)

All data nominal. IES files for all CCTs available at leotek.com.

Product	LED Code	Output Code	System Wattage (W)	Delivered Lumens (Lm) ²	Efficacy (Lm/W)	Field Adjustable Output Range
GCJ1	30J	025	17	2397	141	↕
		035	26	3692	142	
		040	30	4140	138	
		045	34	4742	139	
GCJ2	30J	050	37	5291	143	↕
		060	44	6228	141	
		065	49	6734	137	
		075	54	7398	137	
GCJ3	30J	080	58	7830	135	↕
		085	64	8448	132	
		090	67	8813	132	
		100	70	9937	142	
GCJ4	30J	110	80	11062	138	↕
		120	87	11813	136	
		125	87	11813	136	
		130	100	13063	131	

Notes:
1. Nominal lumens. Normal tolerance ± 10% due to factors including distribution type, LED bin variance, and ambient temperatures.
2. Maximum LED driver current is 500mA.

Performance Data: 3000K (30K)

All data nominal. IES files for all CCTs available at leotek.com.

Product	LED Code	Output Code	System Wattage (W)	Delivered Lumens (Lm) ²	Efficacy (Lm/W)	Field Adjustable Output Range
GCJ1	30J	025	17	2533	149	↕
		040	27	4058	152	
		045	30	4560	152	
GCJ2	30J	050	34	5223	154	↕
		055	37	5550	150	
		065	44	6425	146	
GCJ3	30J	070	49	7062	145	↕
		075	54	7722	143	
		080	58	8236	142	
		090	64	8960	140	
GCJ4	30J	095	67	9380	140	↕
		105	70	10490	150	
		115	80	11637	145	
		125	87	12428	143	
		135	100	13730	137	↕

Notes:
1. Nominal lumens. Normal tolerance ± 10% due to factors including distribution type, LED bin variance, and ambient temperatures.
2. Maximum LED driver current is 500mA.

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Page 3 of 6



GreenCobra™ Jr. LED Street Light GCJ J-Series Specification Data Sheet

Performance Data: 4000K (40K) and 5000K (50K)

All data nominal. IES files for all CCTs available at leotek.com.

Product	LED Code	Output Code	System Wattage (W)	Delivered Lumens (Lm) ²	Efficacy (Lm/W)	Field Adjustable Output Range
GCJ1	30J	025	17	2650	157	↕
		045	27	4299	161	
		050	30	4830	161	
		055	34	5532	163	
GCJ2	30J	060	37	5883	159	↕
		070	44	6864	156	
		075	49	7256	149	
GCJ3	30J	080	54	7992	148	↕
		085	58	8468	146	
		090	64	9216	144	
		095	67	9648	144	
GCJ4	30J	110	70	10988	157	↕
		120	80	12207	153	
		130	87	13047	150	
		145	100	14399	144	

Notes:
1. Nominal lumens. Normal tolerance ± 10% due to factors including distribution type, LED bin variance, and ambient temperatures.
2. Maximum LED driver current is 500mA.

BUG Ratings: 2700K (27K)

All data nominal. IES files for all CCTs available at leotek.com.

Product & LED Code	Output Code	Type 2R	Type 3R	Type 3F	Type 4	Type 5
		BUG Rating	BUG Rating	BUG Rating	BUG Rating	BUG Rating
GCJ1 30J	025	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1
	035	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1
	040	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1
	045	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1
GCJ2 30J	050	B2-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
	060	B2-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B3-U0-G3
GCJ3 30J	065	B2-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B3-U0-G1
	075	B2-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B3-U0-G1
	080	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
	085	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
GCJ4 30J	090	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3
	100	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
	110	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
	120	B3-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
	130	B3-U0-G3	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2

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GreenCobra™ Jr. LED Street Light GCJ J-Series Specification Data Sheet

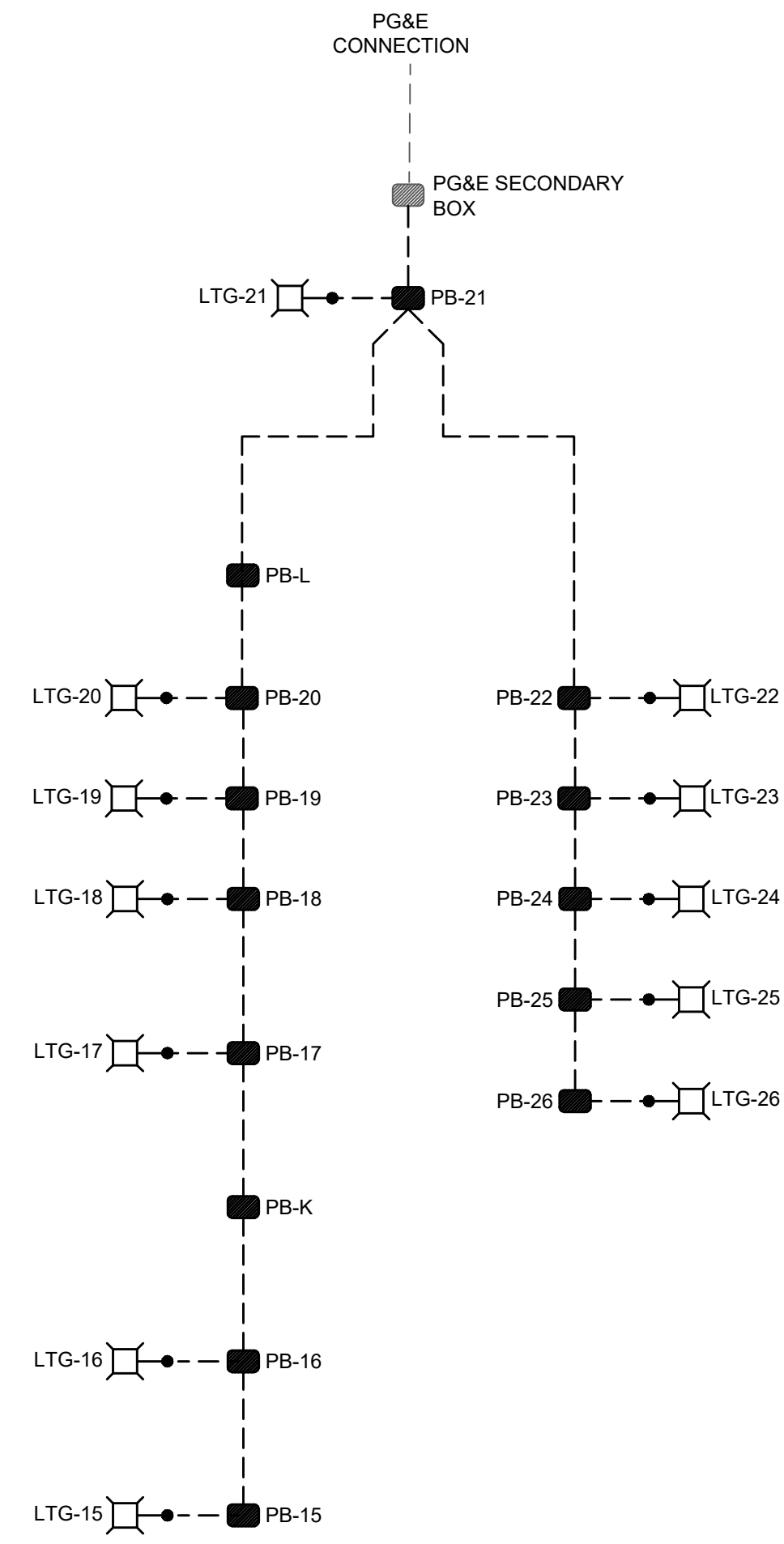
BUG Ratings: 3000K (30K)

All data nominal. IES files for all CCTs available at leotek.com.

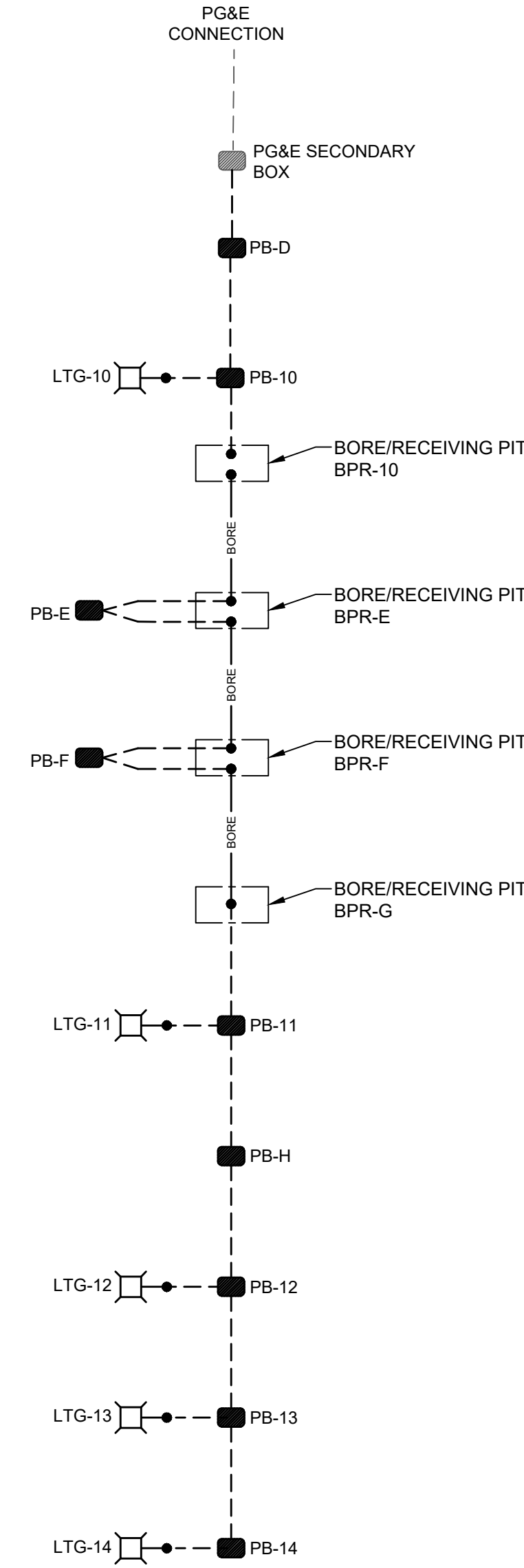
Product & LED Code	Output Code	Type 2R	Type 3R	Type 3F	Type 4	Type 5
		BUG Rating	BUG Rating	BUG Rating	BUG Rating	BUG Rating
GCJ1 30J	025	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
	040	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
	045	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G1
	050	B2-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
GCJ2 30J	055	B2-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B3-U0-G1
	065	B2-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B3-U0-G3
GCJ3 30J	070	B2-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B3-U0-G1
	075	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
	080	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G1
	090	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
GCJ4 30J	095	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
	105	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
	115	B3-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
	125	B3-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2
	135	B3-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2

BUG Ratings: 4000K (40K) and 5000K (50K)

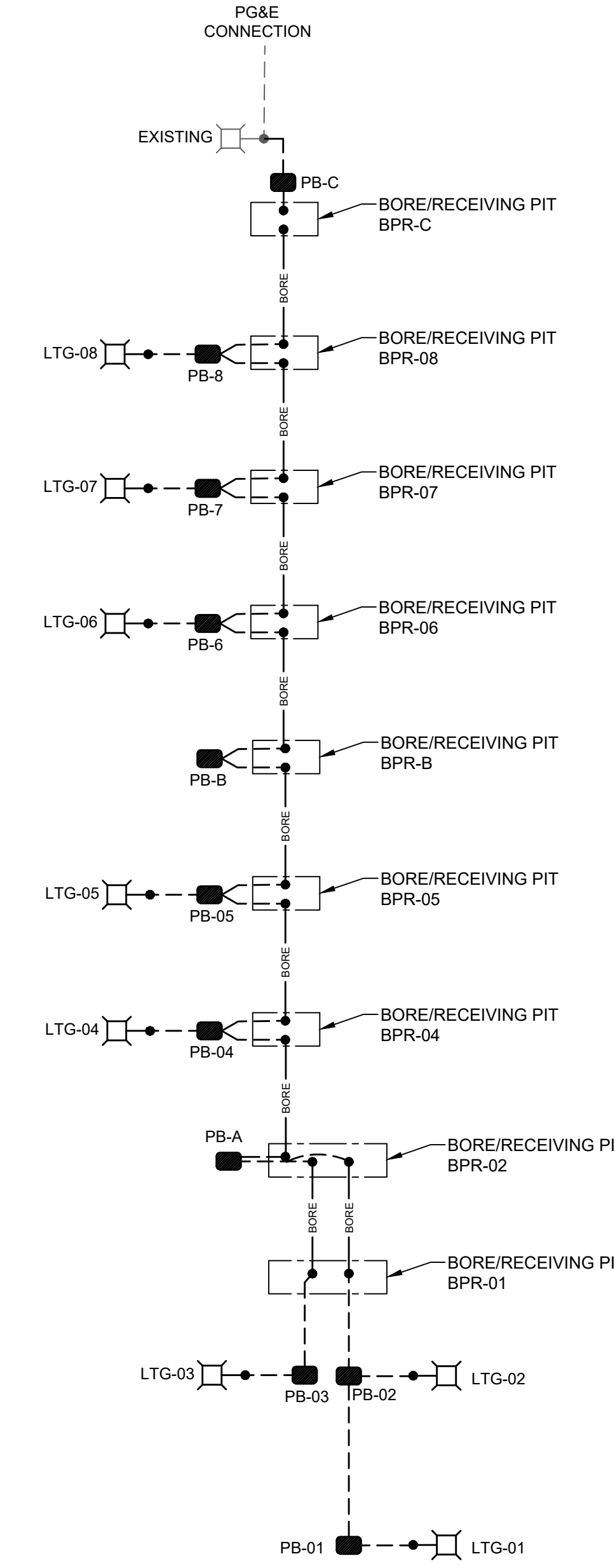
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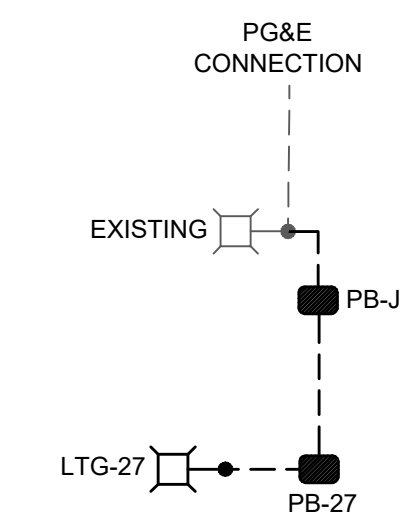
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SCALE: NTS



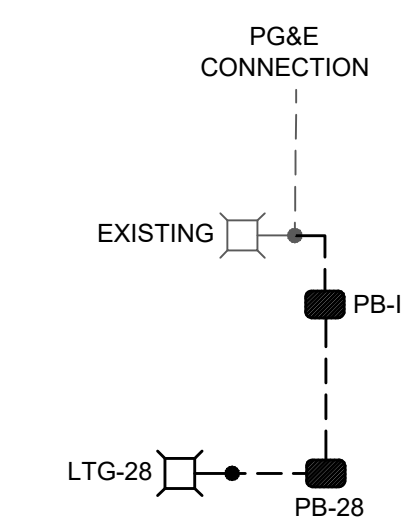
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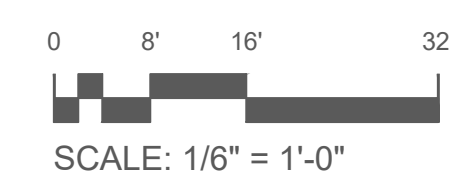
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SCALE: NTS



4 STREET LIGHTING - RISER #4
SCALE: NTS



3 STREET LIGHTING - RISER #3
SCALE: NTS



SCALE: 1/6" = 1'-0"



PERMIT SET

DATE:	March 23, 2024
DRAWN:	Chris Wells
CHECKED:	cw
REVISIONS:	BY
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▲	---
▲	---
▲	---
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RISER DIAGRAM - STREET LIGHTING
FRUITLAND AVE RECONSTRUCTION
PROJECT PHASE III
 FRUITLAND AVE
 ATWATER, CA



DRAWN BY:	Chris Wells
CHECK BY:	CW
SCALE:	AS SHOWN
DATE:	MARCH 23, 2024
JOB:	23-176

SHEET NO. **E4.0**
83 OF 83 SHEETS