

# WEST BAY SANITARY DISTRICT

## SAN MATEO COUNTY CALIFORNIA

### CAPITAL IMPROVEMENT PROJECT 2010-2011 (PHASE 2)

REPLACEMENT AND CONSTRUCTION OF SANITARY SEWER MAINS

CLAYTON DR, SHERMAN AVE, HILLVIEW DR, ISABELLA AVE, LEON WAY, LEE COURT, CRANE ST, FELTON DR, ARDEN AVE, LENNOX AVE, ENCINAL AVE, OAK GROVE AVE, WILLOW RD, VAN BUREN RD, HAVEN AVE, & SCOTT DR.

#### GENERAL NOTES:

1. THE FOLLOWING NOTES ARE ESTABLISHED MERELY TO GUIDE THE CONTRACTOR AS TO THE GENERAL ITEMS OF WORK INVOLVED AND ARE NOT INTENDED TO COVER COMPLETE SCOPE OF WORK. THE CONTRACTOR SHALL COMPLETE ALL WORK AS PER CONSTRUCTION PLANS AND SPECIFICATIONS.
2. CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
3. ALL SANITARY SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS, THE SPECIAL TECHNICAL PROVISIONS AND THE STANDARD SPECIFICATIONS OF THE WEST BAY SANITARY DISTRICT. ALL WORK NOT SPECIFICALLY COVERED IN THE STANDARD SPECIFICATIONS OF WEST BAY SANITARY DISTRICT AND THE SPECIAL TECHNICAL PROVISIONS FOR THESE IMPROVEMENTS SHALL BE DONE IN ACCORDANCE WITH THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, LATEST EDITION.
4. THE WORK SHOWN ON THESE PLANS IS WITHIN THE JURISDICTION OF THE CITY OF MENLO PARK, ATHERTON, PORTOLA VALLEY, CALTRANS, AND UNINCORPORATED SAN MATEO COUNTY AND SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS AND THE REQUIREMENTS OF THE ENCROACHMENT PERMITS.
5. THE LOCATIONS AND TYPES OF EXISTING UTILITIES SHOWN ON THE IMPROVEMENT PLANS ARE BASED ON INFORMATION FURNISHED BY SERVICING AGENCIES AND IS TO BE SUPPLEMENTED BY ACTUAL FIELD INVESTIGATION AND VERIFICATIONS BY CONTRACTOR. ATTENTION IS DIRECTED TO VERIFICATIONS OF DEPTHS AND EXACT LOCATIONS OF EXISTING SERVICES WHETHER SHOWN ON THE PLAN OR NOT AND THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PRESERVE AND AVOID DAMAGES TO EXISTING UTILITIES ENCOUNTERED. NOTE: EXISTING UTILITY SERVICES TO HOUSES ARE NOT SHOWN ON THE PLANS. CONTRACTOR SHALL NOTIFY PG&E, AT&T, CALIFORNIA WATER AND UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444, PRIOR TO ANY FIELD INVESTIGATION.
6. BEDDING MATERIAL SHALL BE AN IMPORTED VIRGIN GRANULAR MATERIAL FREE FROM VEGETABLE MATTER AND OTHER ORGANIC SUBSTANCES AND SHALL BE OF SUCH NATURE THAT IT CAN BE COMPACTED READILY UNDER WATERING, ROLLING AND TAMPING TO FORM A FIRM AND STABLE BASE. BEDDING MATERIAL SHALL CONFORM TO THE GRADATION REQUIREMENTS SHOWN ON THE DETAIL DRAWING.
7. RELATIVE COMPACTION AND IN-PLACE DENSITY SHALL BE DETERMINED AS DEFINED BY THE TEST METHOD OF ASTM D1557.
8. EXISTING FLOWS MUST BE MAINTAINED BY CONTRACTOR AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY PROPERTY OWNERS OF ANY INTERRUPTION OF SEWER SERVICES PRIOR TO ANY WORK ON EXISTING SEWER PIPES. SEWAGE FLOWS SHALL BE MAINTAINED BY PUMPING.
9. ALL EXISTING IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO LANDSCAPING, DRIVEWAYS, CURB, GUTTER, SIDEWALK, CULVERTS, DRAINS, STRIPING (PAINTED OR THERMOPLASTIC) AND MONUMENTS, SHALL BE RESTORED TO THE CONDITION IN WHICH THEY WERE OR BETTER BEFORE THE EXCAVATION WAS MADE. PAYMENT FOR RESTORATION OF EXISTING IMPROVEMENTS TO THEIR ORIGINAL CONDITION WILL NOT BE MADE AND SHALL BE CONSIDERED AS INCLUDED IN THE VARIOUS CONTRACT ITEMS OF WORK INVOLVED.
10. THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT PROVISIONS OF FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS IN REGARD TO TRAFFIC CONTROL. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN PRIOR TO THE START OF WORK TO BE APPROVED BY THE DISTRICT AND THE LOCAL JURISDICTION.
11. THE CONTRACTOR SHALL CONDUCT THEIR OPERATION AS TO OFFER THE LEAST POSSIBLE OBSTRUCTION AND INCONVENIENCE TO THE PUBLIC THROUGHOUT THE PERFORMANCE OF THE WORK, OR IN CONNECTION TO THIS CONTRACT, THE CONTRACTOR SHALL CONSTRUCT AND ADEQUATELY MAINTAIN SUITABLE AND SAFE CROSSINGS OVER TRENCHES, DRIVEWAY ACCESS AND SUCH DETOURS AS ARE NECESSARY TO CARE FOR PUBLIC PEDESTRIAN TRAFFIC.
12. CONTRACTOR SHALL CONFORM TO ALL APPLICABLE OSHA RULES, REGULATIONS, AND ORDERS ESTABLISHED BY FEDERAL AND STATE AGENCIES BEFORE ENTERING SANITARY SEWER MANHOLES.
13. IF THE CONTRACTOR PLANS TO USE MACHINERY WITH TRACKS, PLYWOOD SHALL BE PLACED IN FRONT AND/OR BACK OF THE MACHINE (DEPENDING ON THE TRAVEL DIRECTION), SO THAT SURFACE DESTRUCTION IS AVOIDED. ANY SURFACE DESTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE DISTRICT, TO THE SATISFACTION OF THE LOCAL JURISDICTION.
14. THE REPLACEMENT OF SEWER MAINS SHALL BE CONSTRUCTED AT THE DESIGNED HORIZONTAL ALIGNMENT AND THE PROPOSED GRADE (DEPTH) AS SHOWN ON THE PLANS. THE EXISTING SEWER MAINS SHALL BE USED AS STATIONING CONTROL LINE. THE CONTRACTOR SHOULD BE ALERTED TO THE NEED FOR EXCAVATION BELOW EXISTING PIPE INVERT FOR PLACEMENT OF BEDDING MATERIALS AS SHOWN ON THE DETAIL DRAWINGS.
15. CONCRETE FOR MANHOLES SHALL MEET THE REQUIREMENTS OF CLASS 1 CONCRETE AS DEFINED IN CALTRANS STANDARD SPECIFICATIONS, LATEST EDITION.
16. CONTRACTOR SHALL PROVIDE PUMPS OR OTHER MEANS TO PREVENT SEWER WASTE BACKUP DUE TO THEIR WORK ON THE EXISTING SEWERS. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP AND DAMAGES CAUSED BY THEIR NEGLIGENCE, AND SHALL PAY ANY FINES DUE TO THEIR NEGLIGENCE.
17. PRIOR TO THE START OF SEWER CONSTRUCTION, THE CONTRACTOR SHALL PERFORM BYPASSING OPERATIONS. CONSTRUCTION CAN NOT BEGIN UNTIL BYPASSING OPERATIONS ARE APPROVED BY THE DISTRICT.
18. THE CONTRACTOR SHALL AT ALL TIMES HAVE AT THE JOB SITE SUFFICIENT PUMPING MACHINERY READY FOR IMMEDIATE USE. THE TRENCHES AND EXCAVATIONS SHALL BE KEPT ENTIRELY FREE OF WATER WHILE CONCRETE IS BEING POURED OR PIPE IS BEING LAID AND UNTIL CONCRETE OR MORTAR HAS SET HARD. WATER SHALL BE DISPOSED OF IN SUCH A MANNER AS WILL NOT CAUSE INJURY TO PUBLIC OR PRIVATE PROPERTY, NOR BE A MENACE TO PUBLIC HEALTH.
19. ALL PROPERTY LINES SHOWN ARE APPROXIMATED FROM ASSESSORS PARCEL MAPS OR FROM RECORD INFORMATION, AND THEIR LOCATION MAY NOT BE EXACT. THE PROPERTY LINES SHALL BE USED AS REFERENCE TO LOCATE SERVICE LATERAL CONNECTION TO EACH PROPERTY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THE EXACT LOCATION OF EACH PROPERTY LATERAL FOR CONNECTION.
20. THE NUMBER OF LATERALS SHOWN ON THE PLANS IS BASED ON T.V. INVESTIGATION LOGS, WHICH MAY INCLUDE BOTH LIVE AND DEAD LATERALS. FINAL NUMBERS TO BE USED FOR PAYMENT IS THE NUMBER OF LIVE LATERALS CONNECTED. THE CONTRACTOR SHALL SAWCUT THE ABANDONED LATERALS AT THE EDGE OF THE TRENCH AND PLUG THEM IN ACCORDANCE WITH THE DISTRICT'S STANDARDS.

UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

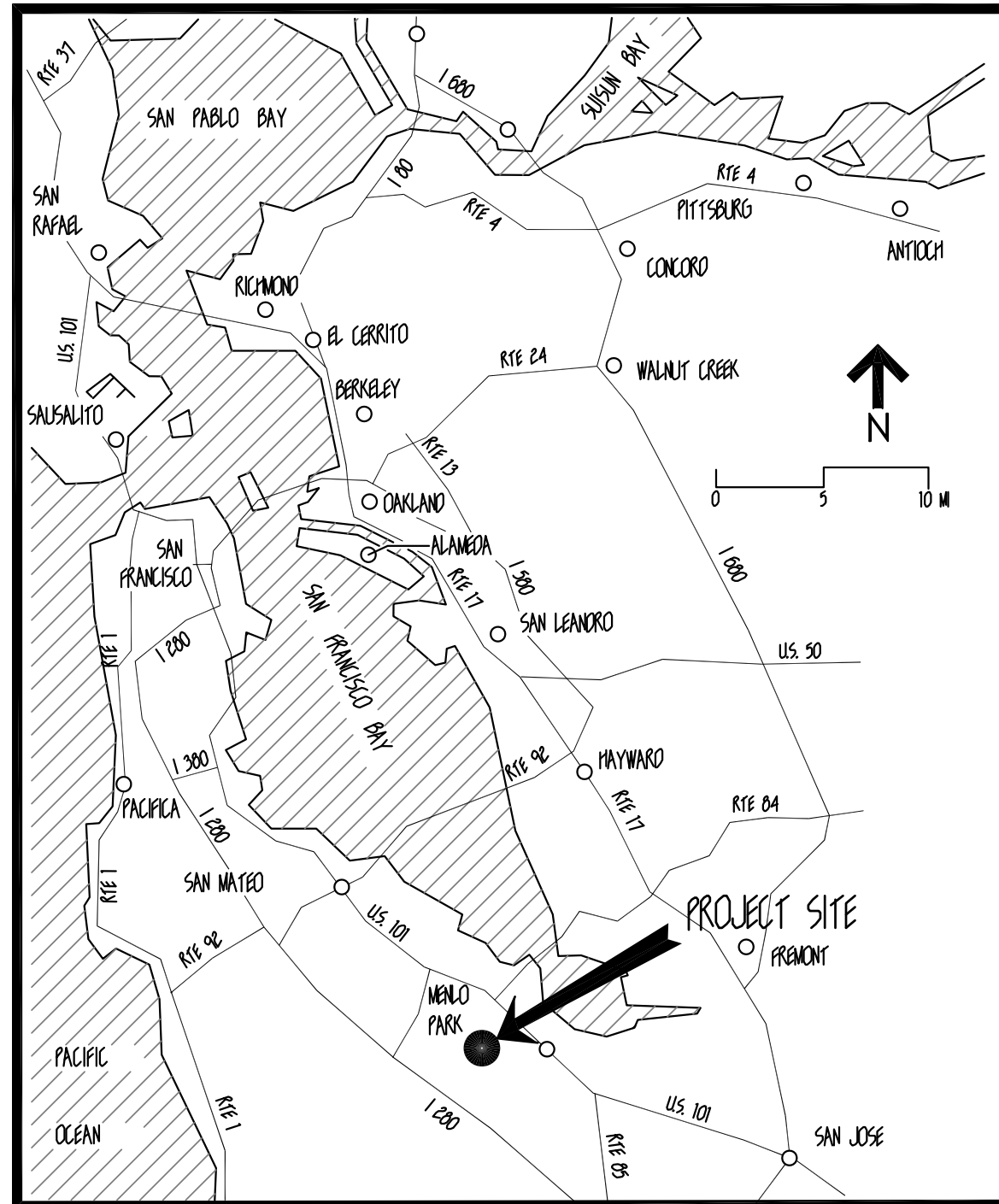
Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property; that this requirement shall be made to apply continuously and not be limited to normal working hours, and construction contractor further agrees to defend, indemnify and hold design professional harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting liability arising from the sole negligence of design professional.

#### BOARD OF DIRECTORS

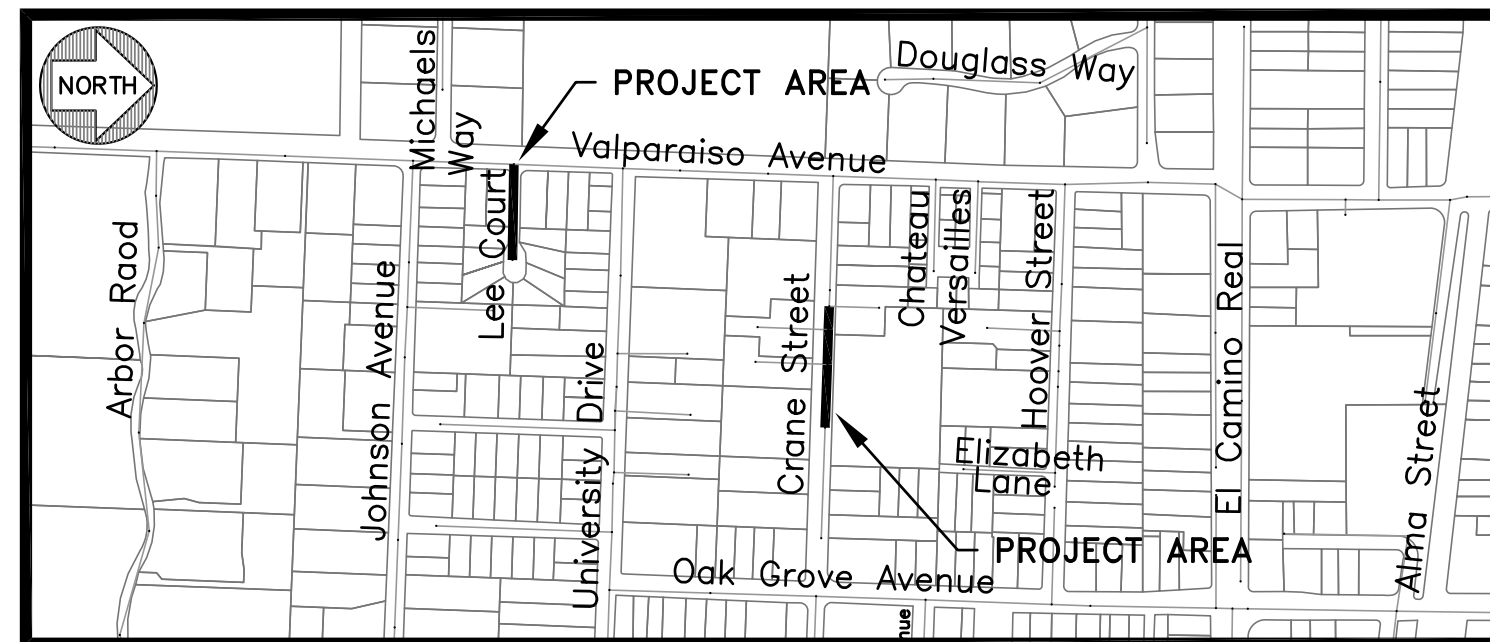
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 DAVID WALKER            SECRETARY  
 EDWARD P. MORITZ        TREASURER  
 HARRY HARRISON         DIRECTOR  
 FRAN DEHN                 DIRECTOR

#### LEGEND

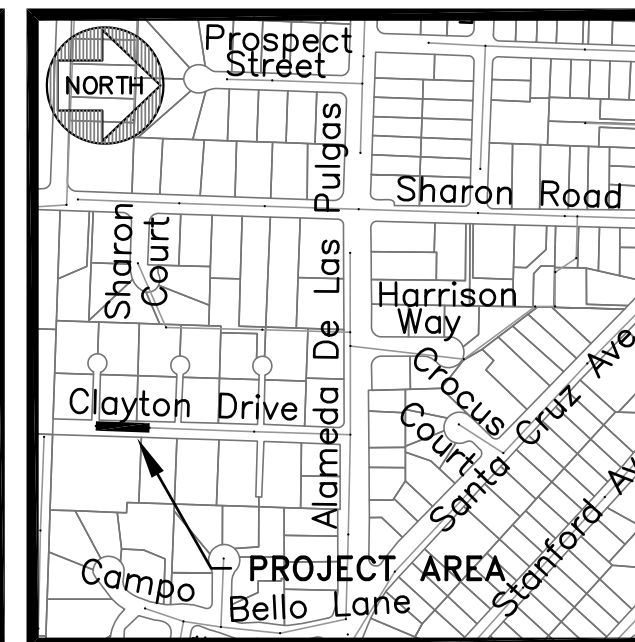
- |       |                                    |         |                                      |
|-------|------------------------------------|---------|--------------------------------------|
| ————— | SANITARY SEWER TO BE INSTALLED     | —PP/—JP | EXISTING JOINT POLE/ POWER POLE      |
| ---   | EXISTING SANITARY SEWER            | G       | EXISTING GAS VALVE                   |
| ---   | EXISTING LATERAL                   | W       | EXISTING WATER VALVE                 |
| ---   | EXISTING GAS LINE                  | WM      | EXISTING WATER METER                 |
| ---   | EXISTING ELECTRICAL LINE OVER HEAD | CO      | EXISTING CLEAN OUT                   |
| ---   | EXISTING WATER LINE                | —F—     | EXISTING FIRE HYDRANT                |
| ---   | EXISTING STORM DRAIN               | S/D     | EXISTING SEWER / STORM DRAIN MANHOLE |
| ---   | ROLLED CURB AND GUTTER             | ELEC    | EXISTING ELECTRICAL PULL BOX         |
| ---   | CURB AND GUTTER                    | —       | EXISTING CATCH BASIN                 |
|       |                                    | —       | TRAFFIC SIGN                         |



REGIONAL LOCATION NTS



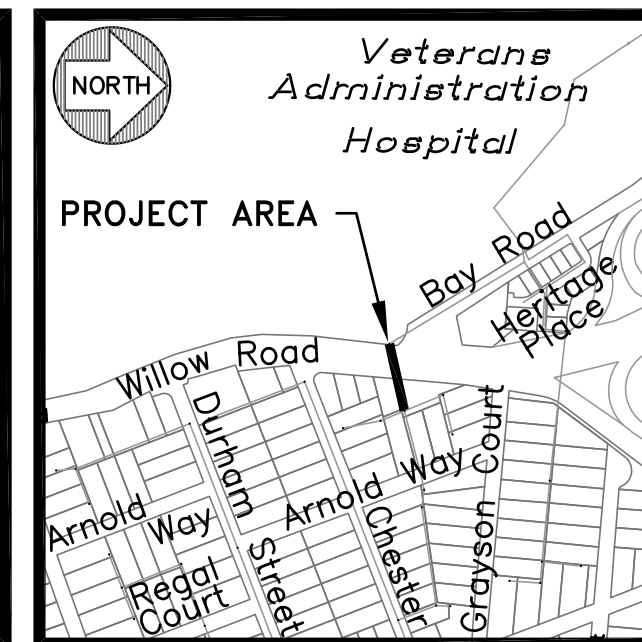
LEE CT. & CRANE ST, MENLO PARK



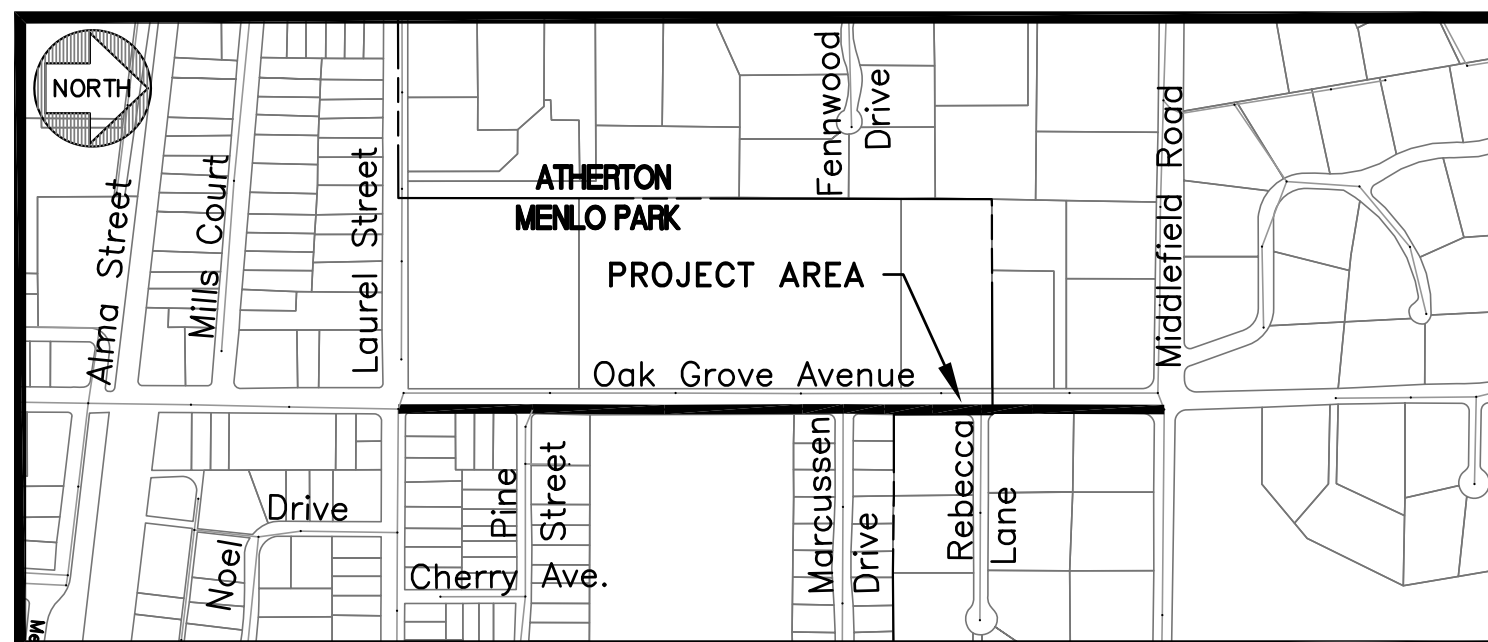
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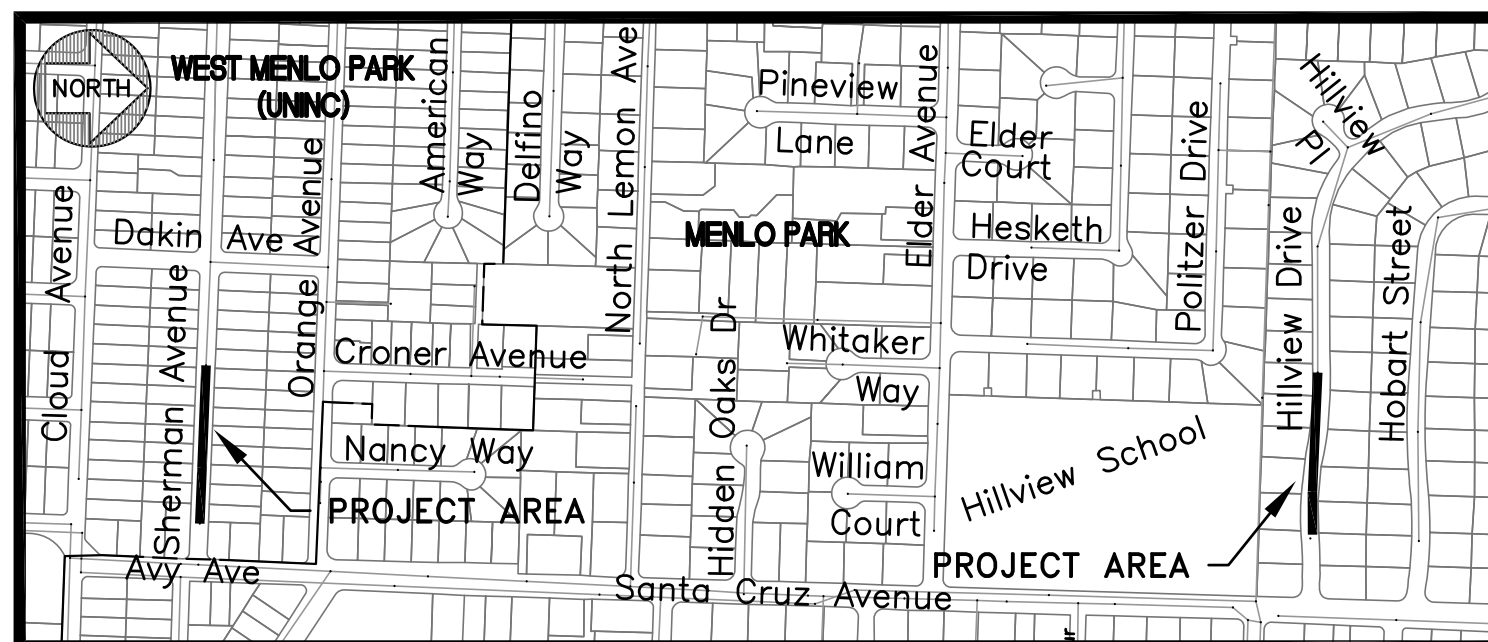
VAN BUREN RD, MENLO PARK



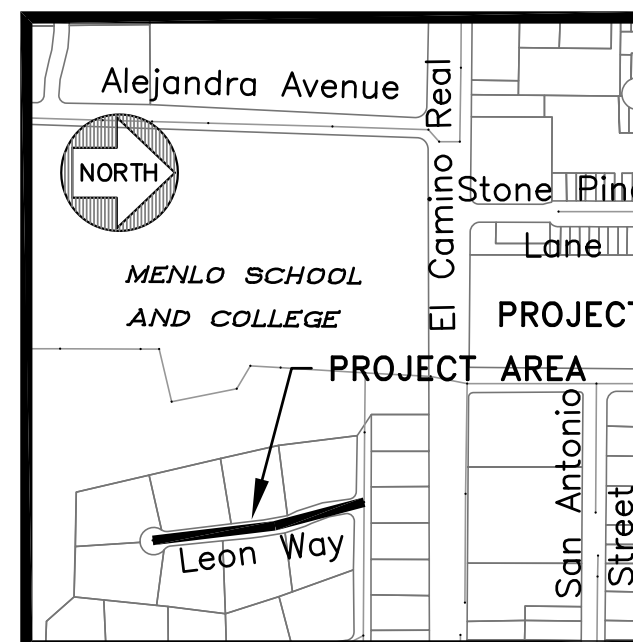
WILLOW RD, MENLO PARK



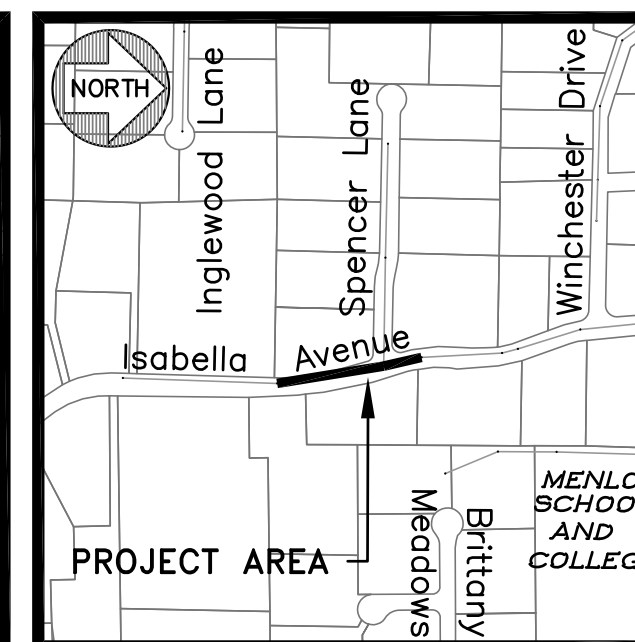
OAK GROVE, MENLO PARK & ATHERTON



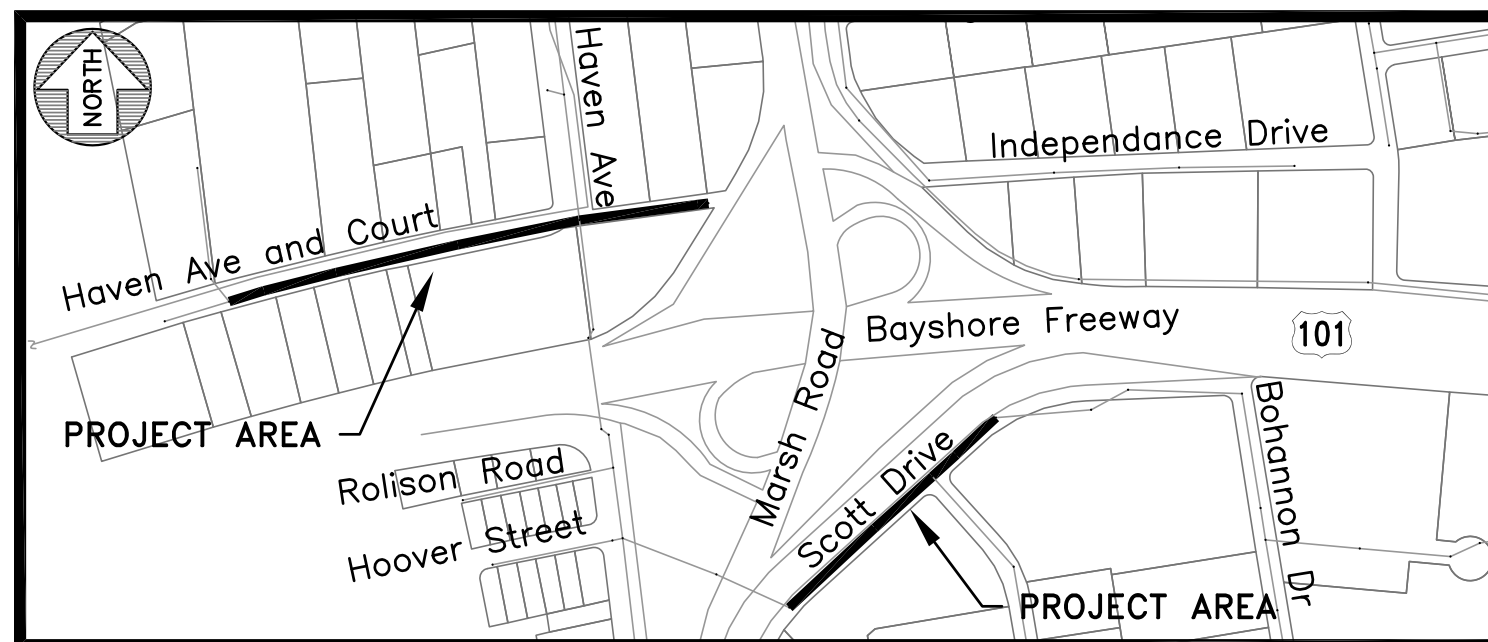
SHERMAN AVE, WEST MENLO PARK (UNINC) & HILLVIEW DR, MENLO PARK



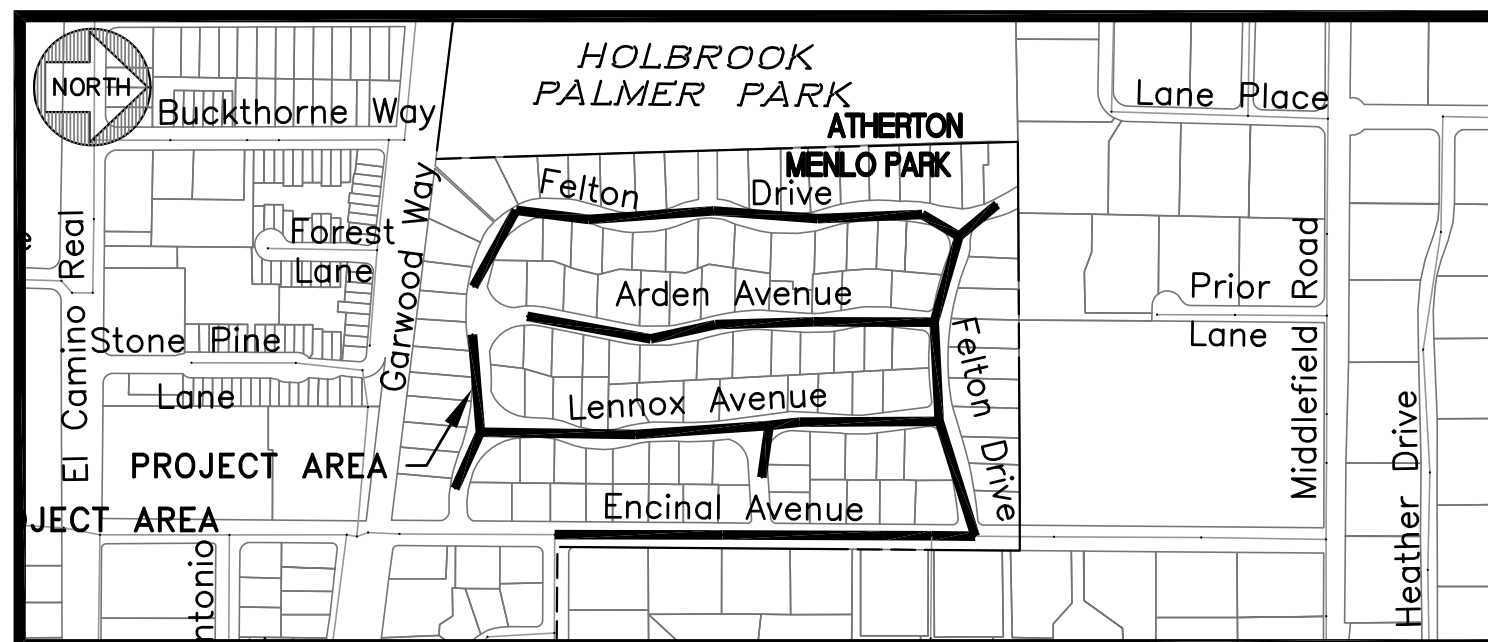
LEON WAY, ATHERTON



ISABELLA AVE, ATHERTON



HAVEN AVENUE & SCOTT DRIVE, MENLO PARK



ENCINAL AVE, FELTON DR, LENNOX AVE, & ARDEN AVE, MENLO PARK (ADD ALT)  
VICINITY LOCATION NTS

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| 3       | PLAN & PROFILE - HILLVIEW DR.   | 15      | PLAN (ADD ALT.) - FELTON DR.   |
| 4       | PLAN & PROFILE - ISABELLA AVE.  | 16      | PLAN (ADD ALT.) - LENNOX AVE.  |
| 5       | PLAN & PROFILE - SHERMAN AVE    | 17      | PLAN (ADD ALT.) - LENNOX AVE.  |
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| 11      | PLAN - OAK GROVE AVE.           |         |                                |
| 12      | PLAN - OAK GROVE AVE.           |         |                                |

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| DATE:       | 07/20/11  | 07/20/11                 | ISSUED FOR BID |
| SCALE:      | AS NOTED  |                          |                |
| DESIGNED:   | RJL       |                          |                |
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| CHECKED:    | RJL       |                          |                |
| PROJ. ENGR: | RJL       |                          |                |
| BY          | DATE      | DESCRIPTION OF REVISIONS | APP'D          |

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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY

PROJECT No. 1756.7B



**CAPITAL IMPROVEMENT PROJECT 2010-2011 (PHASE 2)**

**COVER SHEET**

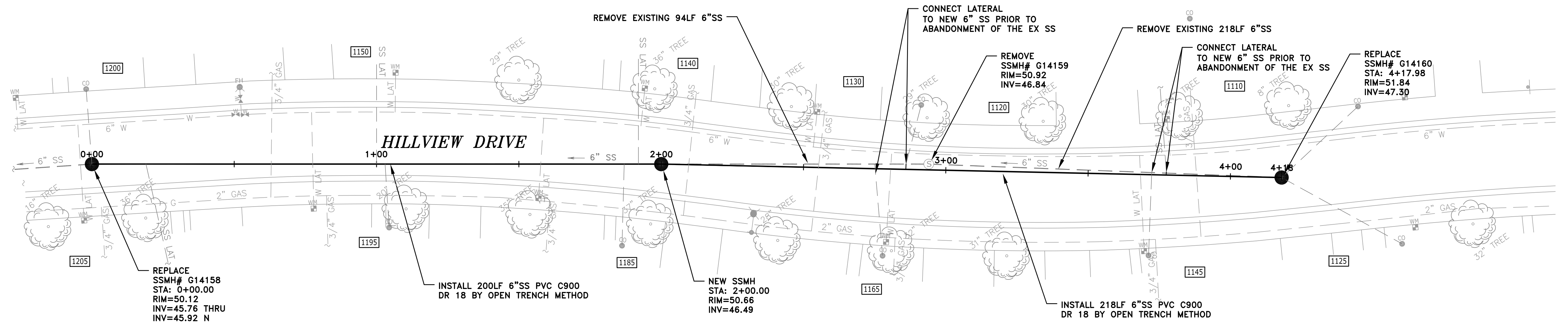
**SAN MATEO COUNTY, CALIFORNIA**

1

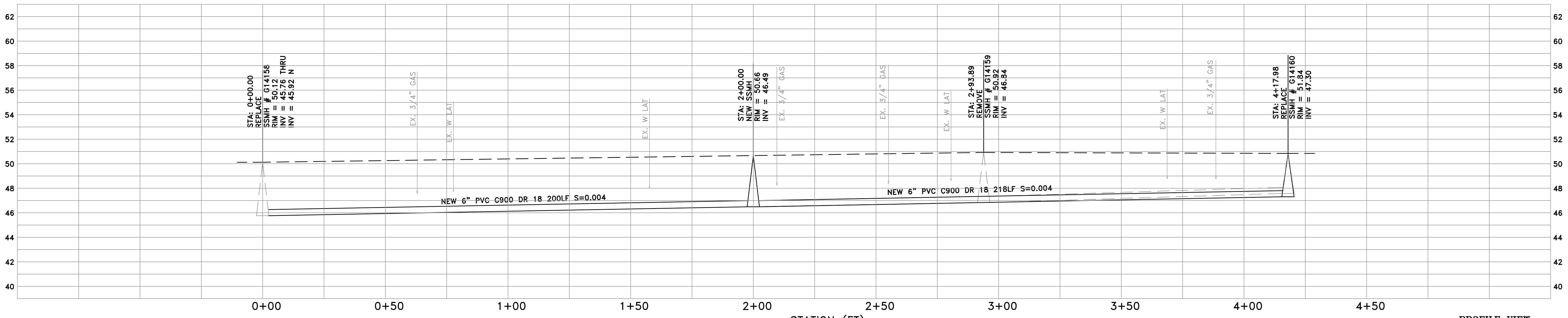
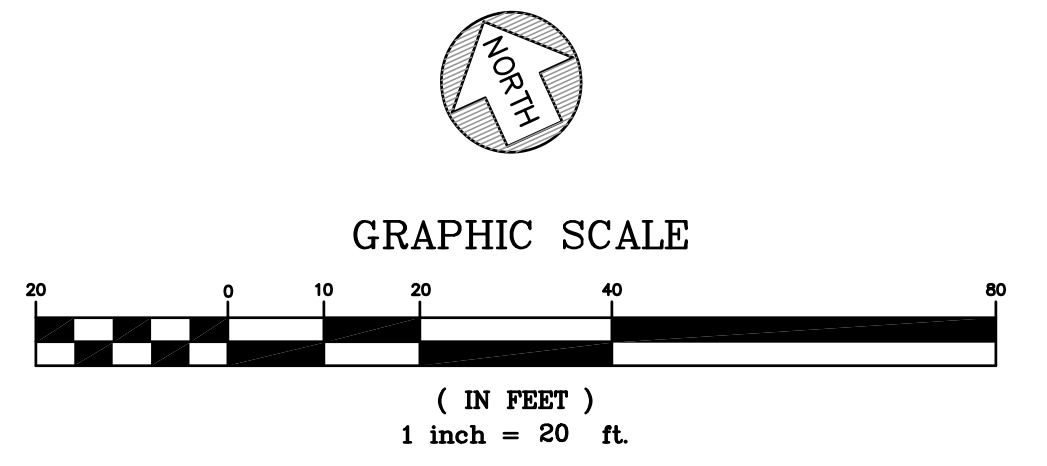
JOB NO.

1058





- NOTES:
- 1) CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND CONNECTING ALL SANITARY SEWER LATERALS AND STUBS.
  - 2) CONTRACTOR SHALL BE RESPONSIBLE FOR THE UNINTERRUPTION OF SEWER SERVICE FOR ALL PROPERTIES. CONTRACTOR SHALL SUBMIT BYPASS PLAN TO THE DISTRICT FOR APPROVAL 10 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
  - 3) CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID ANY DAMAGE TO EXISTING UTILITIES. CONTRACTOR SHALL NOTE THE CLOSE PROXIMITY OF UTILITIES TO PROPOSED IMPROVEMENTS. CONTRACTOR SHALL NOTIFY U.S.A. TO LOCATE UTILITIES AT THE PROJECT SITE PRIOR TO START OF CONSTRUCTION.



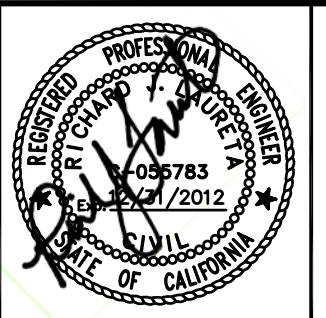
PROFILE VIEW  
 HORIZ: 1" = 20'  
 VERT: 1" = 4'

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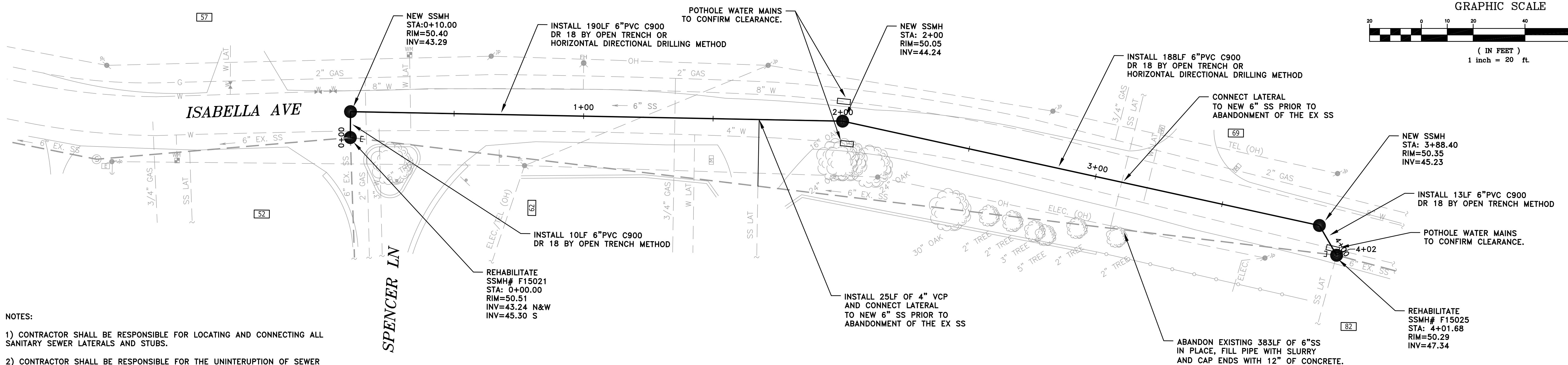
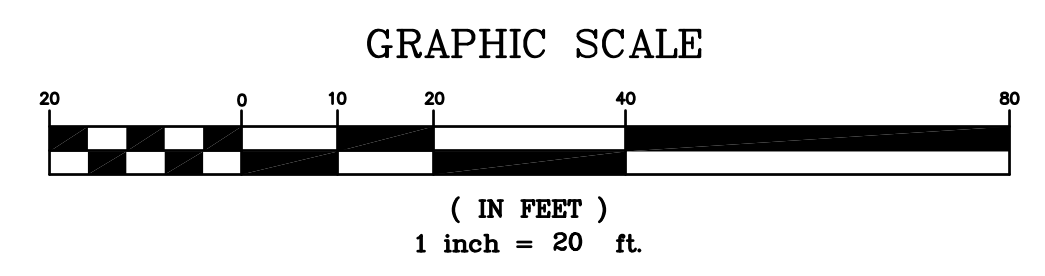
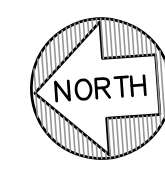
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1756.7B

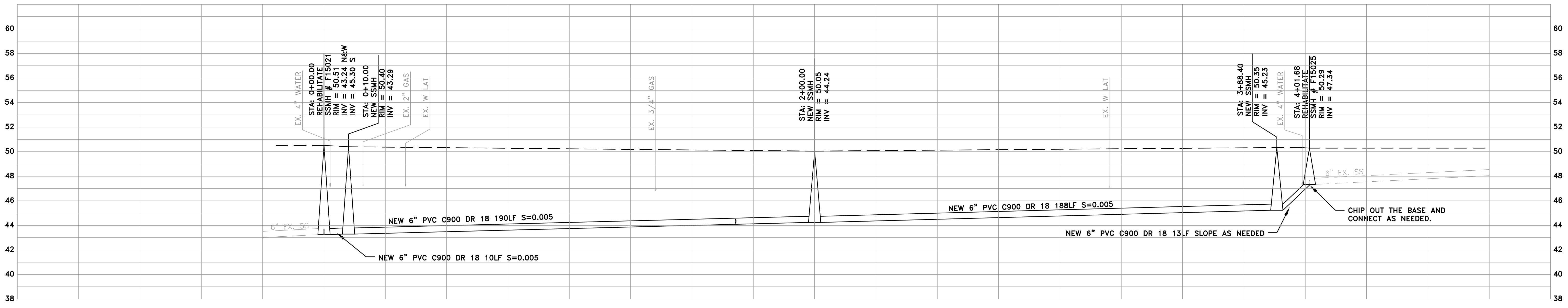


**CAPITAL IMPROVEMENT PROJECT 2010-2011 (PHASE 2)**  
**PLAN AND PROFILE**  
**HILLVIEW DRIVE**  
**STA: 0+00 - 4+17.98**  
**MENLO PARK, CALIFORNIA**

3  
 JOB NO.  
 1058



- NOTES:
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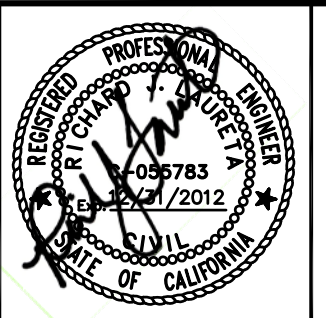


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| BY          | DATE      | DESCRIPTION OF REVISIONS |
|             |           | APP'D                    |

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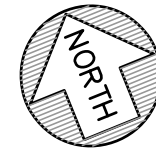
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 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1756.7B



**CAPITAL IMPROVEMENT PROJECT 2010-2011 (PHASE 2)**  
**PLAN AND PROFILE**  
**ISABELLA AVE**  
**STA: 0+00 - 4+01.68**  
**ATHERTON, CALIFORNIA**

4  
 JOB NO.  
 1058



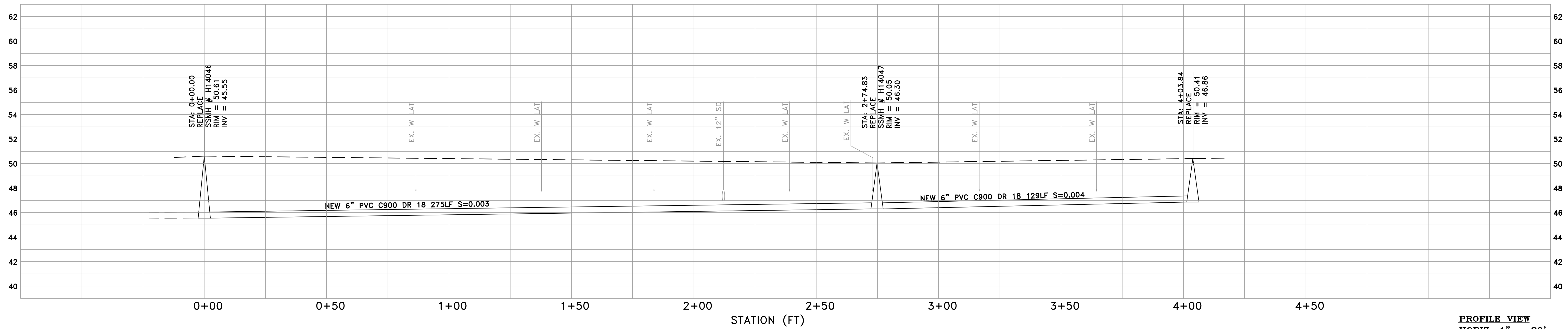
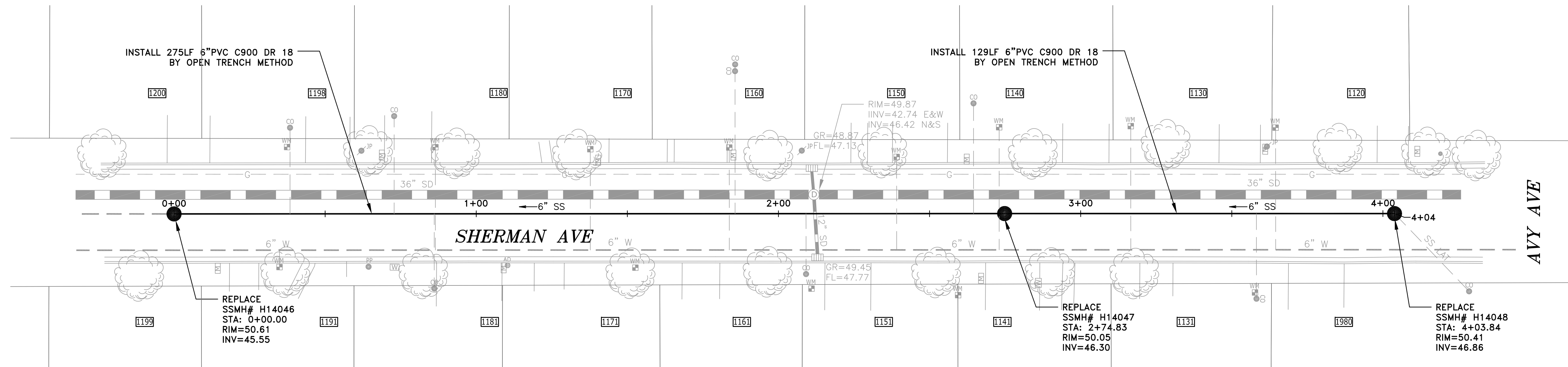
GRAPHIC SCALE



( IN FEET )  
1 inch = 20 ft.

NOTES:

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PROFILE VIEW  
HORIZ: 1" = 20'  
VERT: 1" = 4'

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SANITARY DISTRICT  
SAN MATEO COUNTY

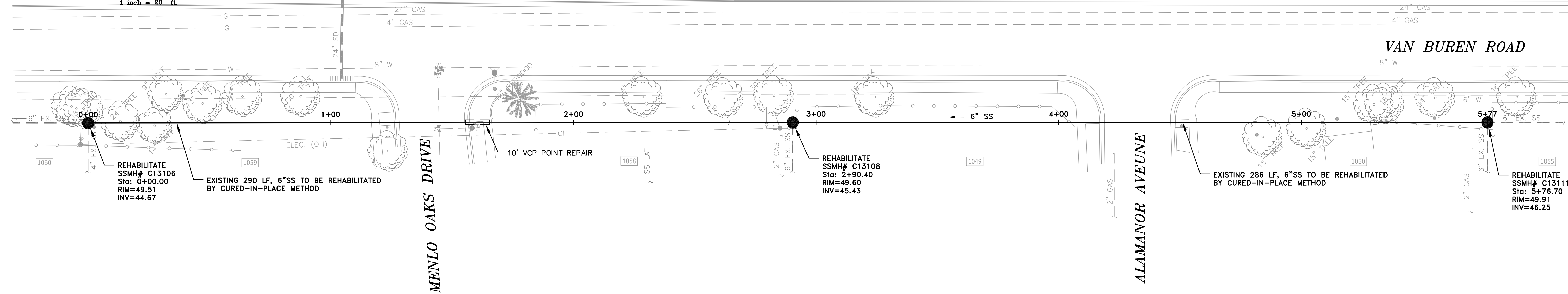
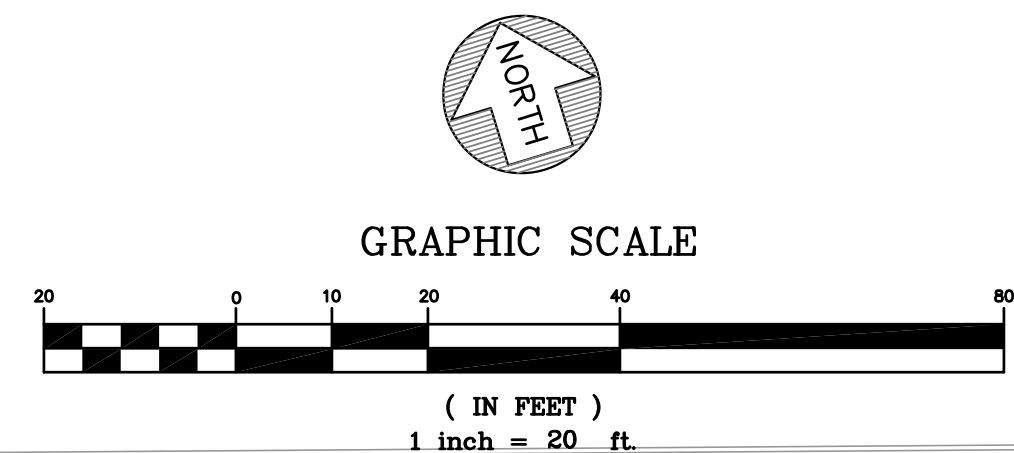
PROJECT No. 1756.7B



**CAPITAL IMPROVEMENT PROJECT 2010-2011 (PHASE 2)**  
**PLAN AND PROFILE**  
**SHERMAN AVE.**  
**STA: 0+00 - 4+03.84**  
**SAN MATEO COUNTY, CALIFORNIA**

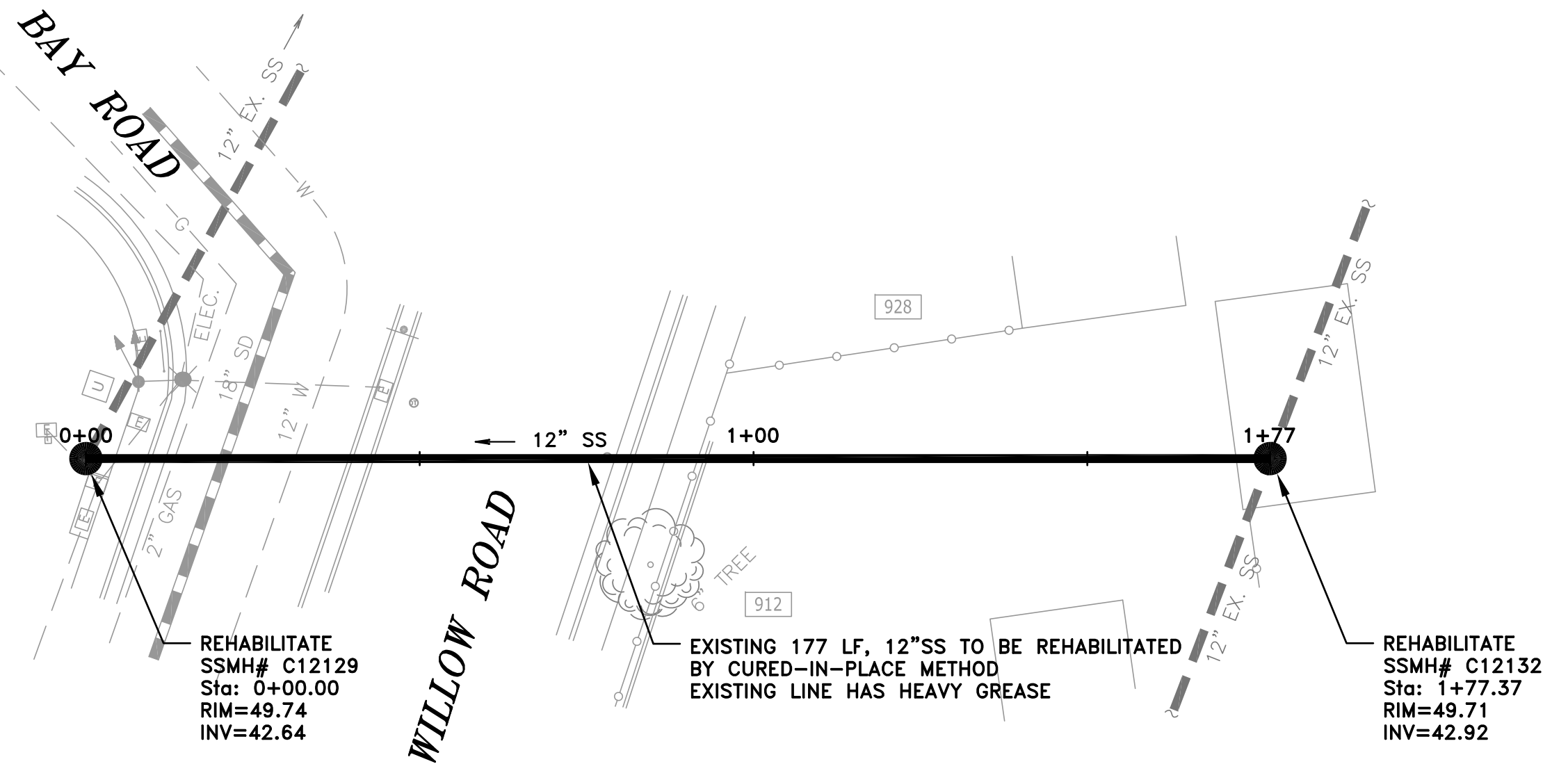
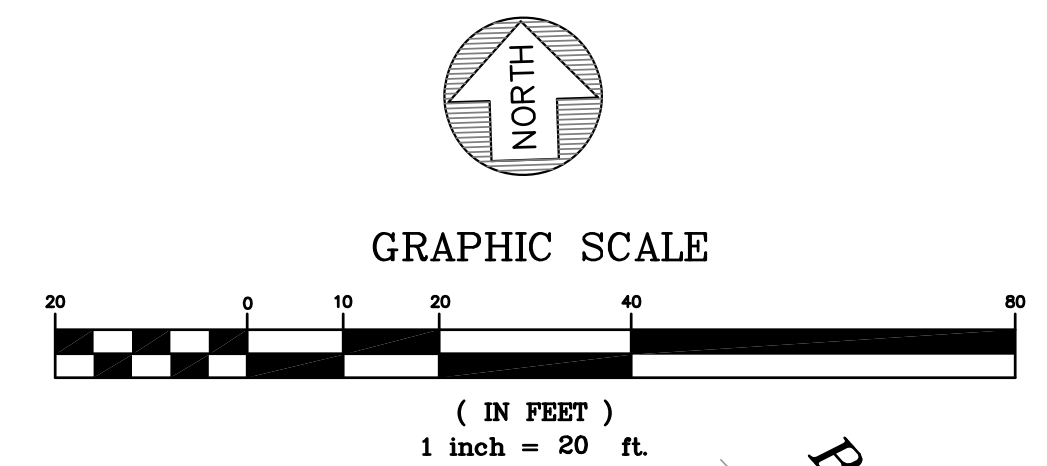
5

JOB NO.  
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- 4) CURED-IN-PLACE PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- 5) ALL EXISTING SERVICE LATERALS TO THE MAIN BEING REHABILITATED BY CURED-IN-PLACE PIPE SHALL BE REINSTATED INTERNALLY WITH "TOP HAT" CONNECTION. ALL LATERAL EXTENSIONS SHALL BE DONE EXTERNALLY.

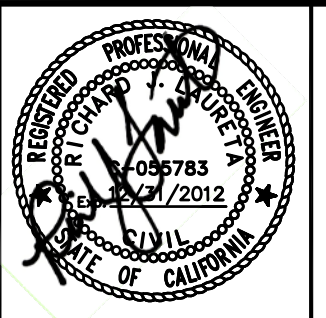


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| DATE:       | 07/20/11  | 07/20/11                 | ISSUED FOR BID |  |
| SCALE:      | AS NOTED  |                          |                |  |
| DESIGNED:   | RJL       |                          |                |  |
| DRAWN:      | JJF/JL/AW |                          |                |  |
| CHECKED:    | RJL       |                          |                |  |
| PROJ. ENGR: | RJL       |                          |                |  |
| BY          | DATE      | DESCRIPTION OF REVISIONS | APP'D          |  |

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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY  
PROJECT No. 1756.7B



**CAPITAL IMPROVEMENT PROJECT 2010-2011 (PHASE 2)**  
**IMPROVEMENT PLAN**  
**VAN BUREN ROAD AND WILLOW ROAD**  
**MENLO PARK, CALIFORNIA**

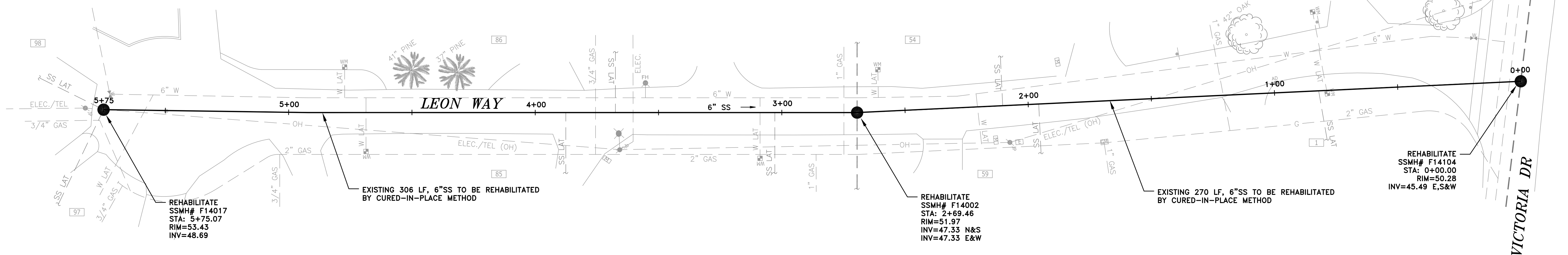
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| 6       |
| JOB NO. |
| 1058    |



GRAPHIC SCALE

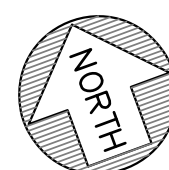


( IN FEET )  
1 inch = 20 ft.



NOTES:

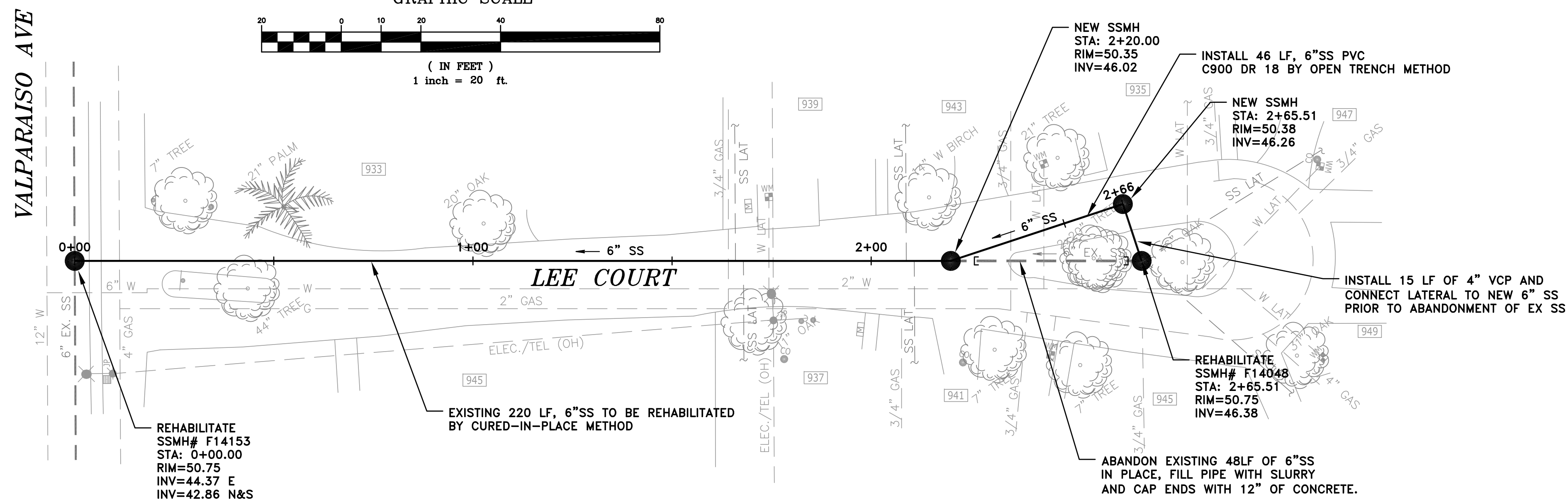
- 1) CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND CONNECTING ALL SANITARY SEWER LATERALS AND STUBS.
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GRAPHIC SCALE



( IN FEET )  
1 inch = 20 ft.



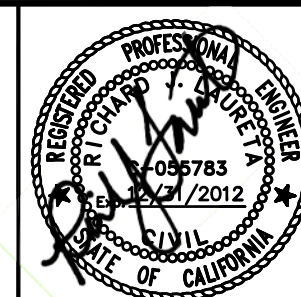
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| DRAWN:      | JJF/JL/AW |                          |                |
| CHECKED:    | RJL       |                          |                |
| PROJ. ENGR: | RJL       |                          |                |
| BY          | DATE      | DESCRIPTION OF REVISIONS | APP'D          |

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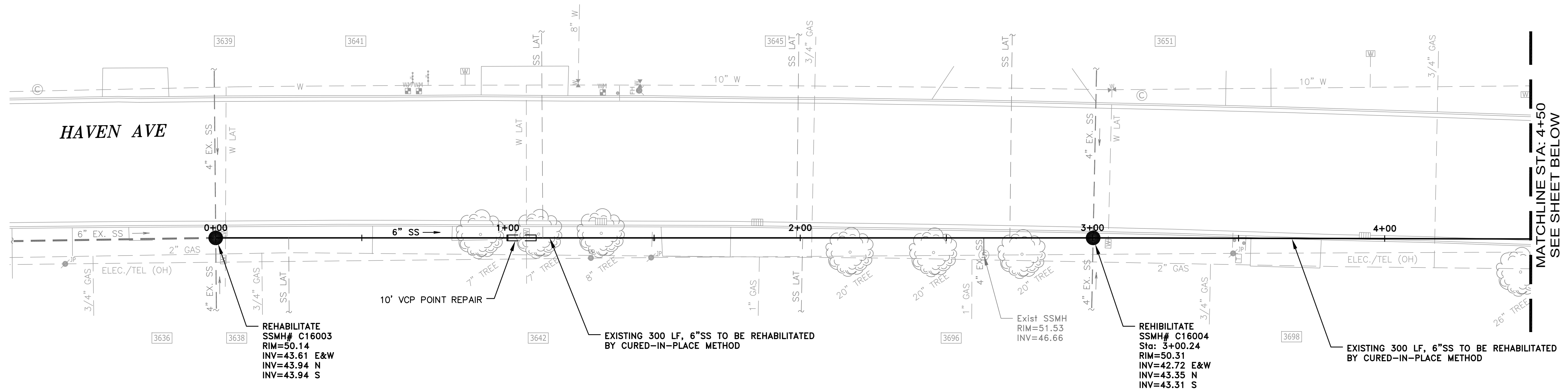
**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

PROJECT No. 1756.7B

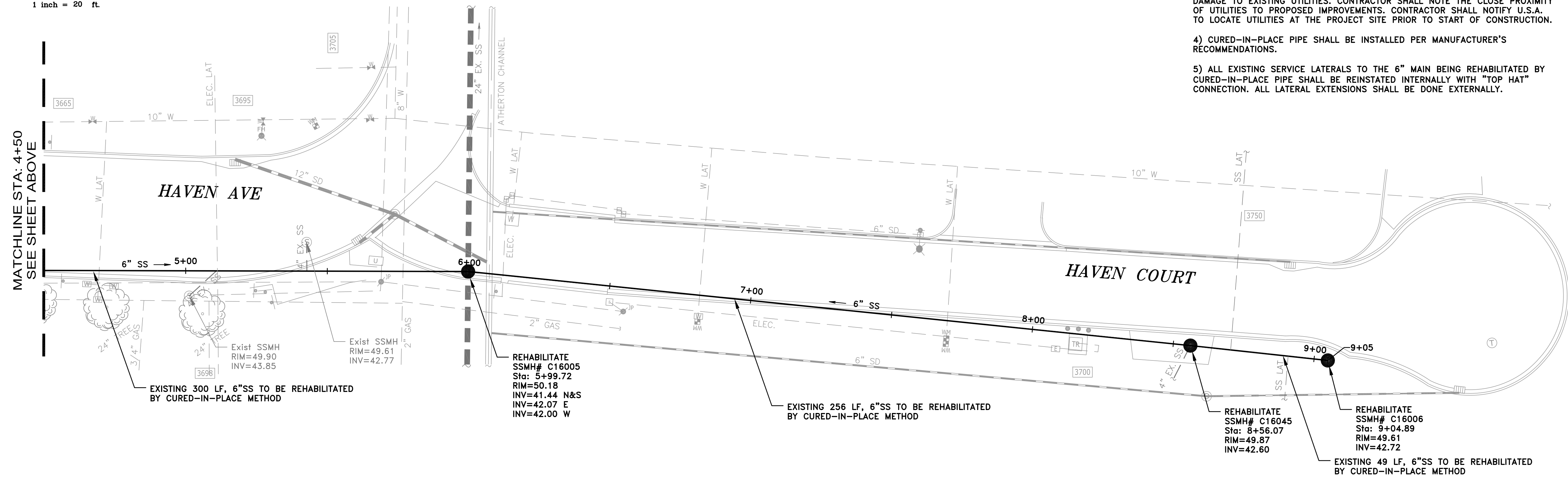
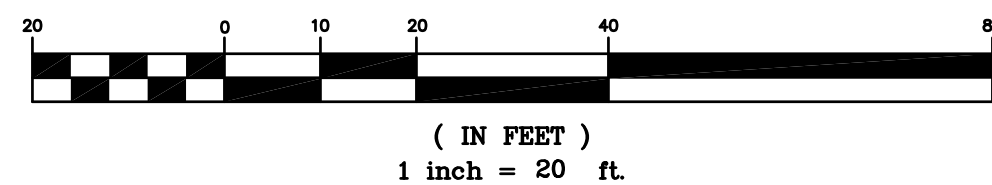


**CAPITAL IMPROVEMENT PROJECT 2010-2011 (PHASE 2)**  
**IMPROVEMENT PLAN**  
**LEON WAY, AHERTON, CALIFORNIA**  
**LEE COURT, MENLO PARK, CALIFORNIA**

7  
JOB No.  
1058



GRAPHIC SCALE



NOTES:

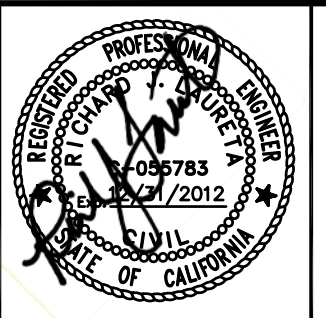
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| DESIGNED:   | RJL       |                          |                |
| DRAWN:      | JJF/JL/AW |                          |                |
| CHECKED:    | RJL       |                          |                |
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| BY          | DATE      | DESCRIPTION OF REVISIONS | APP'D          |

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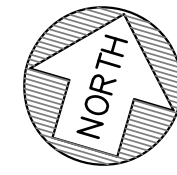
**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1756.7B



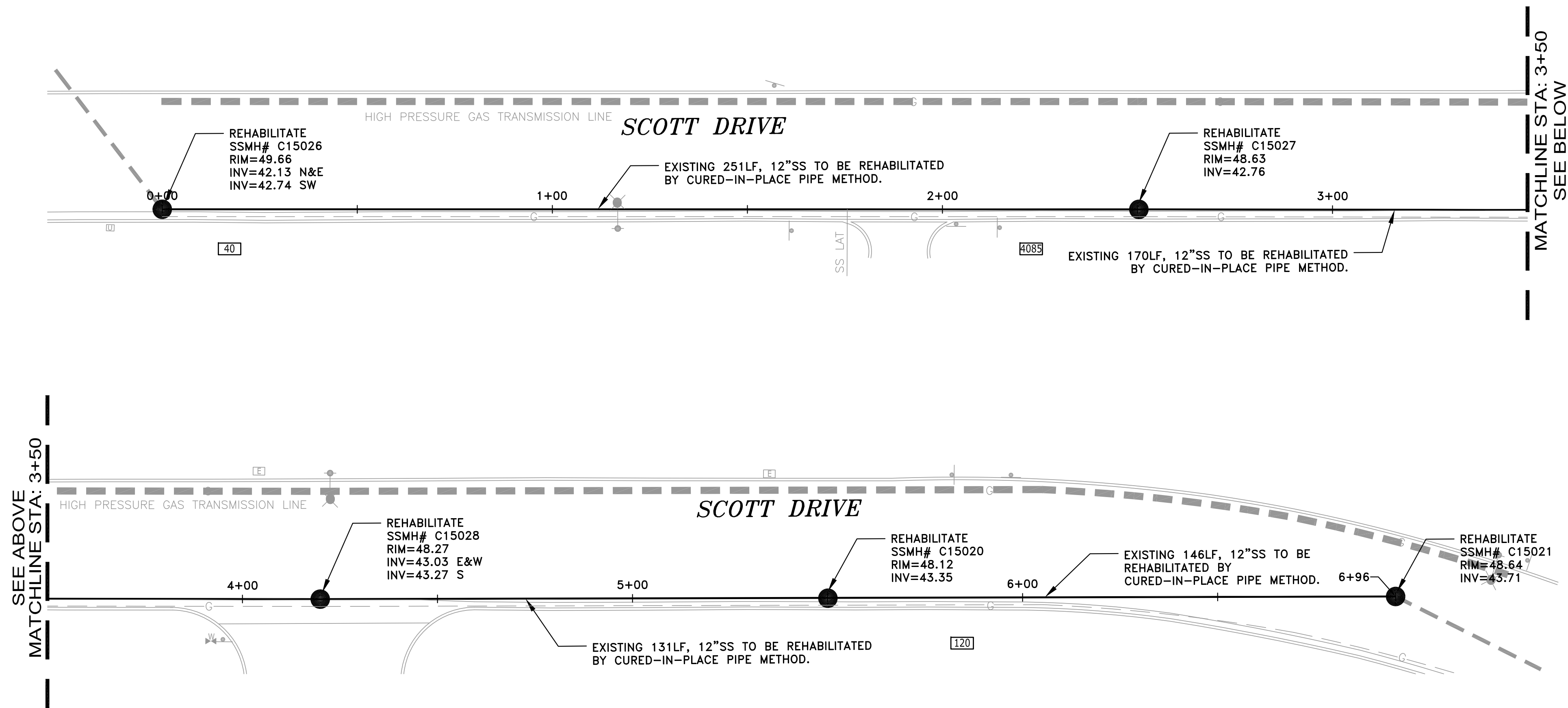
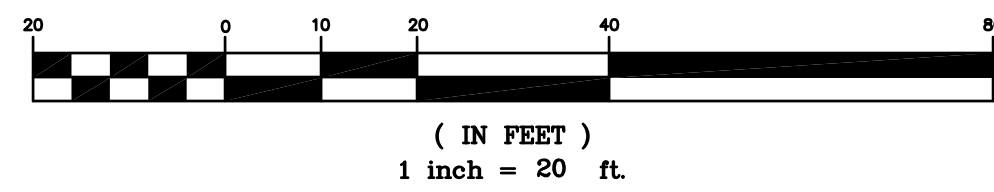
**CAPITAL IMPROVEMENT PROJECT 2010-2011 (PHASE 2)**  
**IMPROVEMENT PLAN**  
**HAVEN AVE AND HAVEN COURT**  
**MENLO PARK, CALIFORNIA**

8  
 JOB NO.  
 1058





GRAPHIC SCALE



NOTES:

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| BY          | DATE      | DESCRIPTION OF REVISIONS | APP'D          |  |

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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1756.7B

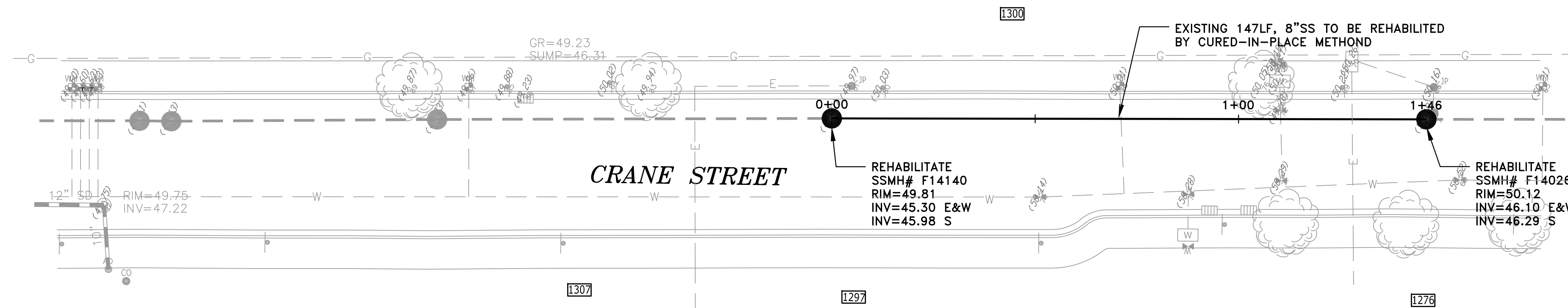


**CAPITAL IMPROVEMENT PROJECT 2010-2011 (PHASE 2)**  
**IMPROVEMENT PLAN**  
**SCOTT DRIVE**  
**MENLO PARK, CALIFORNIA**

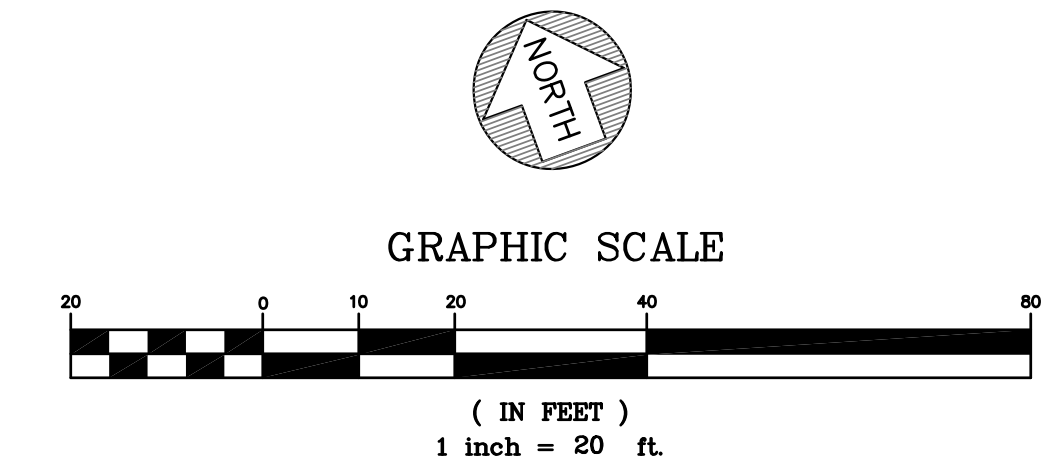
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| 9               |
| JOB NO.<br>1058 |

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OAK GROVE AVENUE

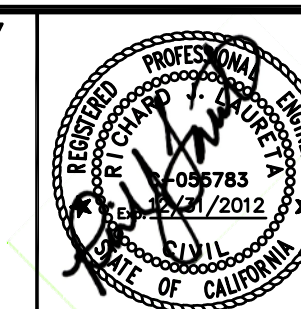


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| CHECKED:    | RJL       |                          |                |  |
| PROJ. ENGR: | RJL       |                          |                |  |
| BY          | DATE      | DESCRIPTION OF REVISIONS | APP'D          |  |

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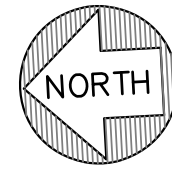
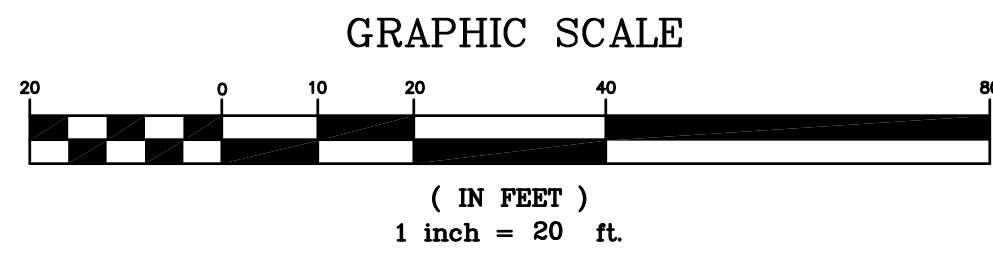
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1756.7B



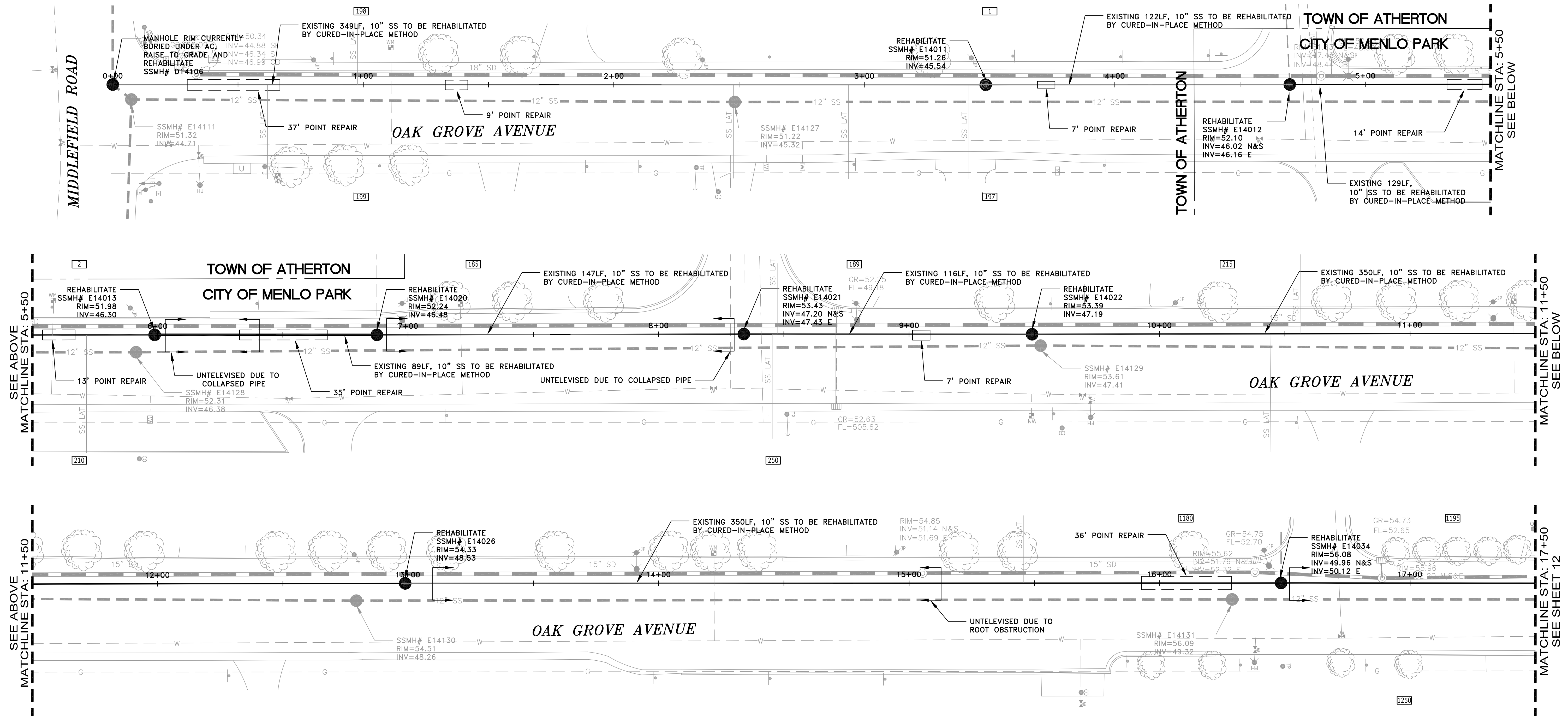
**CAPITAL IMPROVEMENT PROJECT 2010-2011 (PHASE 2)**  
**IMPROVEMENT PLAN**  
**CRANE STREET**  
**MENLO PARK, CALIFORNIA**

10  
 JOB NO.  
 1058



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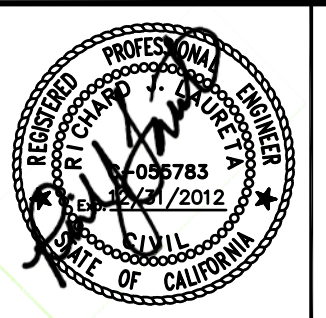


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| DRAWN:      | JJF/JL/AW |                          |
| CHECKED:    | RJL       |                          |
| PROJ. ENGR: | RJL       |                          |
| BY          | DATE      | DESCRIPTION OF REVISIONS |
|             |           | APP'D                    |

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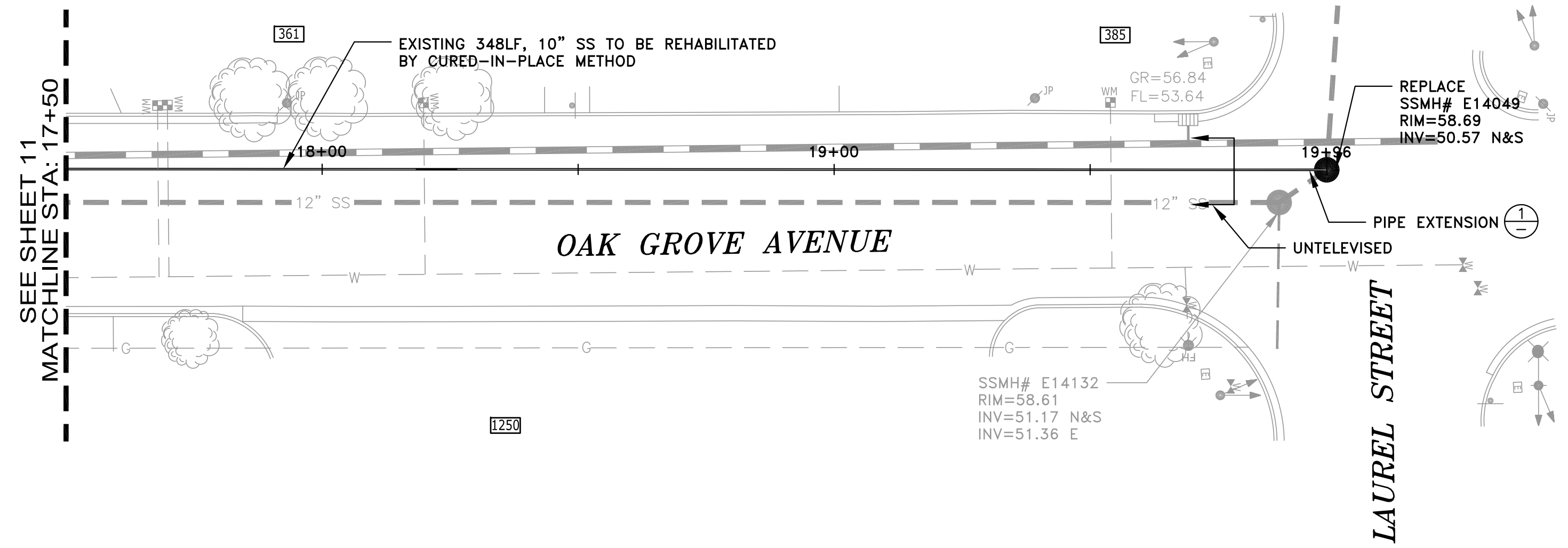
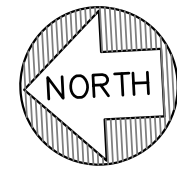
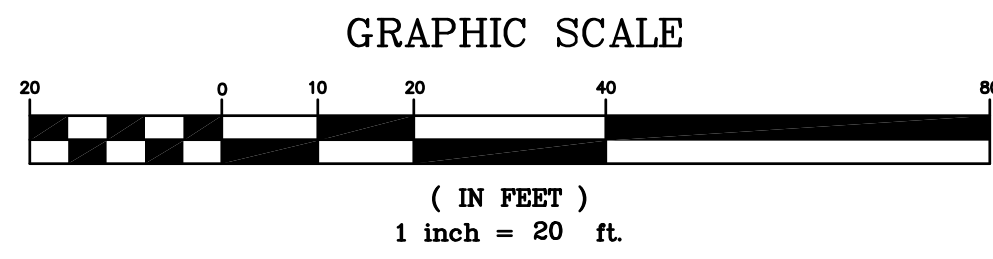
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1756.7B

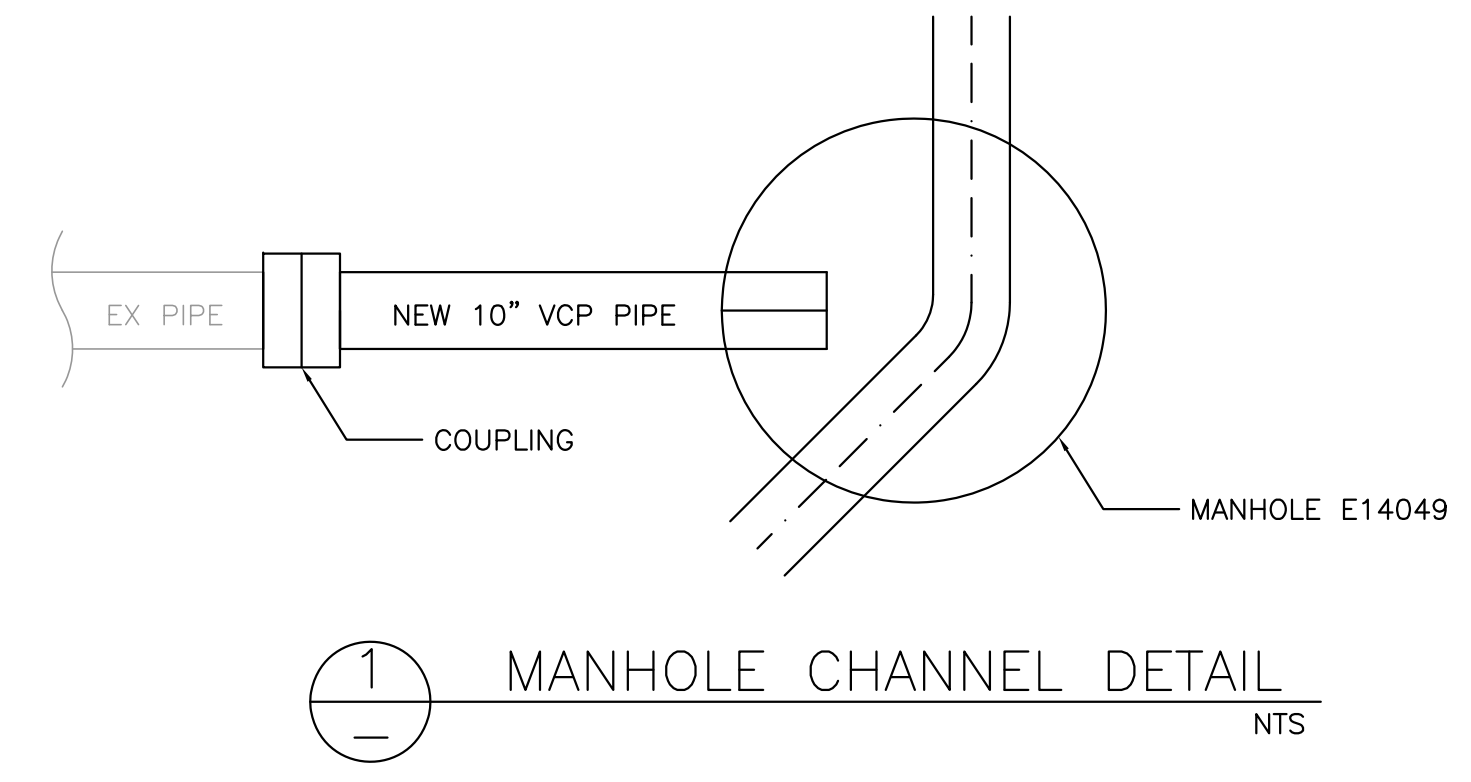


**CAPITAL IMPROVEMENT PROJECT 2010-2011 (PHASE 2)**  
**IMPROVEMENT PLAN**  
**OAK GROVE AVENUE**  
**MENLO PARK, CALIFORNIA**

11  
 JOB NO.  
 1058



- NOTES:
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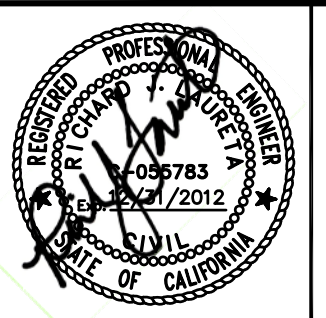


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| BY          | DATE      | DESCRIPTION OF REVISIONS | APP'D          |  |

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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1756.7B



**CAPITAL IMPROVEMENT PROJECT 2010-2011 (PHASE 2)**  
**IMPROVEMENT PLAN**  
**OAK GROVE AVENUE**  
**MENLO PARK, CALIFORNIA**

12  
 JOB NO.  
 1058

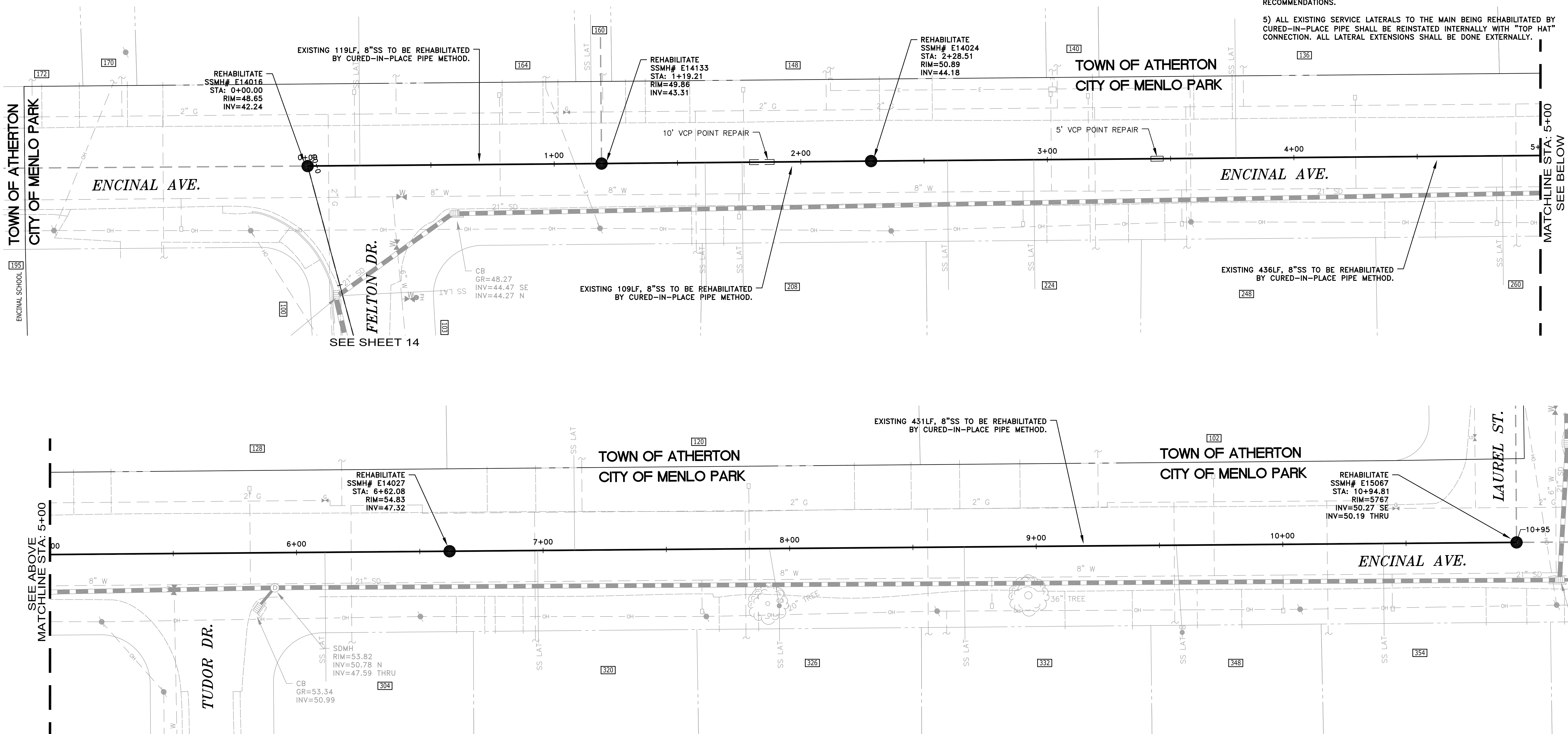


GRAPHIC SCALE



( IN FEET )  
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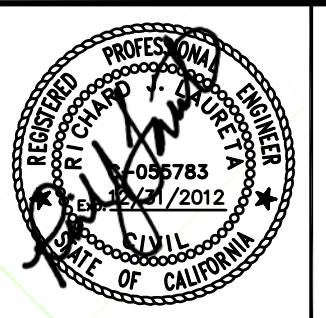


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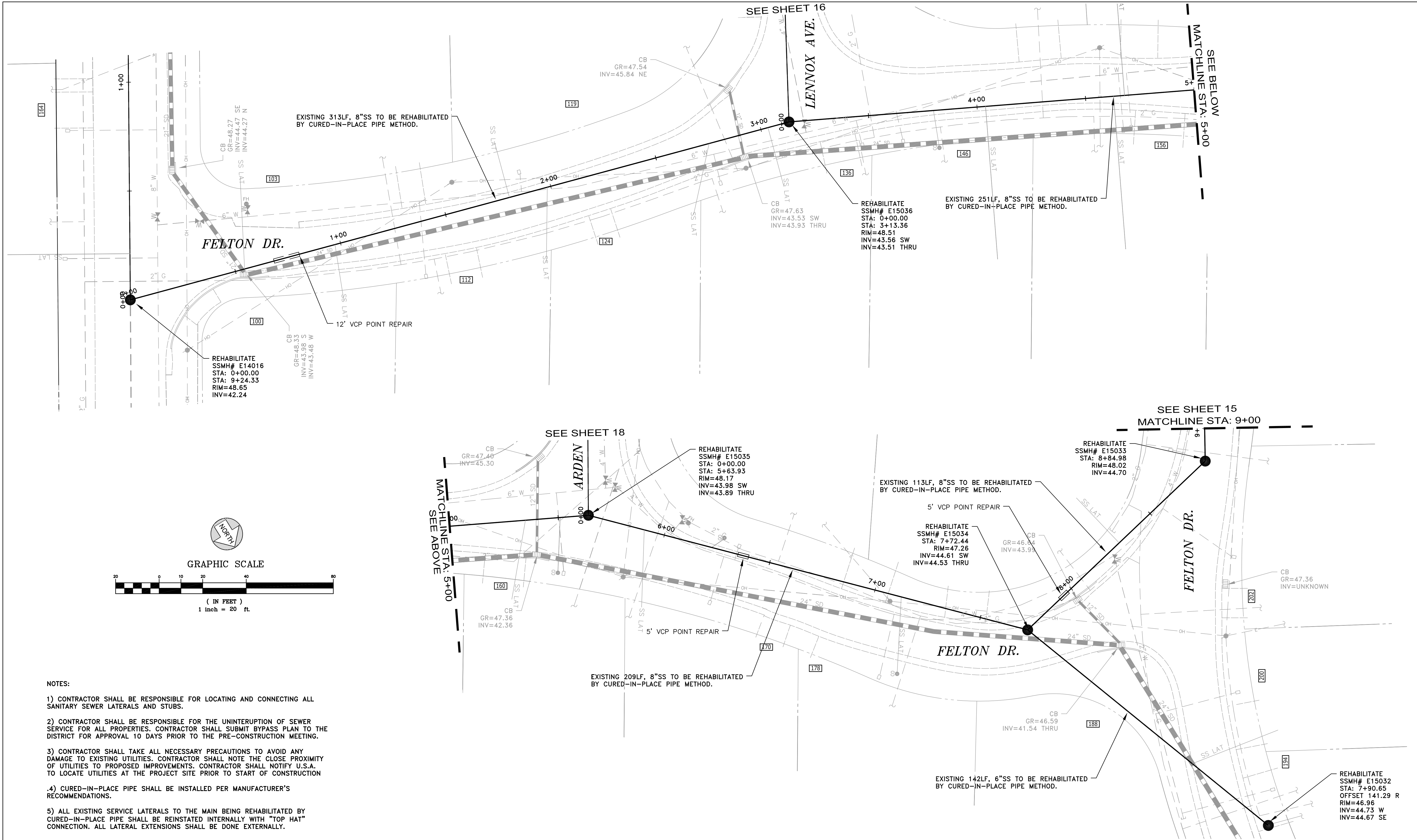
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1756.7B



**CAPITAL IMPROVEMENT PROJECT 2010-2011 (PHASE 2)**  
**ADD ALTERNATE ENCINAL AVE**  
**STA: 0+00.00 - 10+94.81**  
**MENLO PARK, CALIFORNIA**

13  
 JOB NO.  
 1058



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**WEST BAY**  
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PROJECT No. 1756.7B



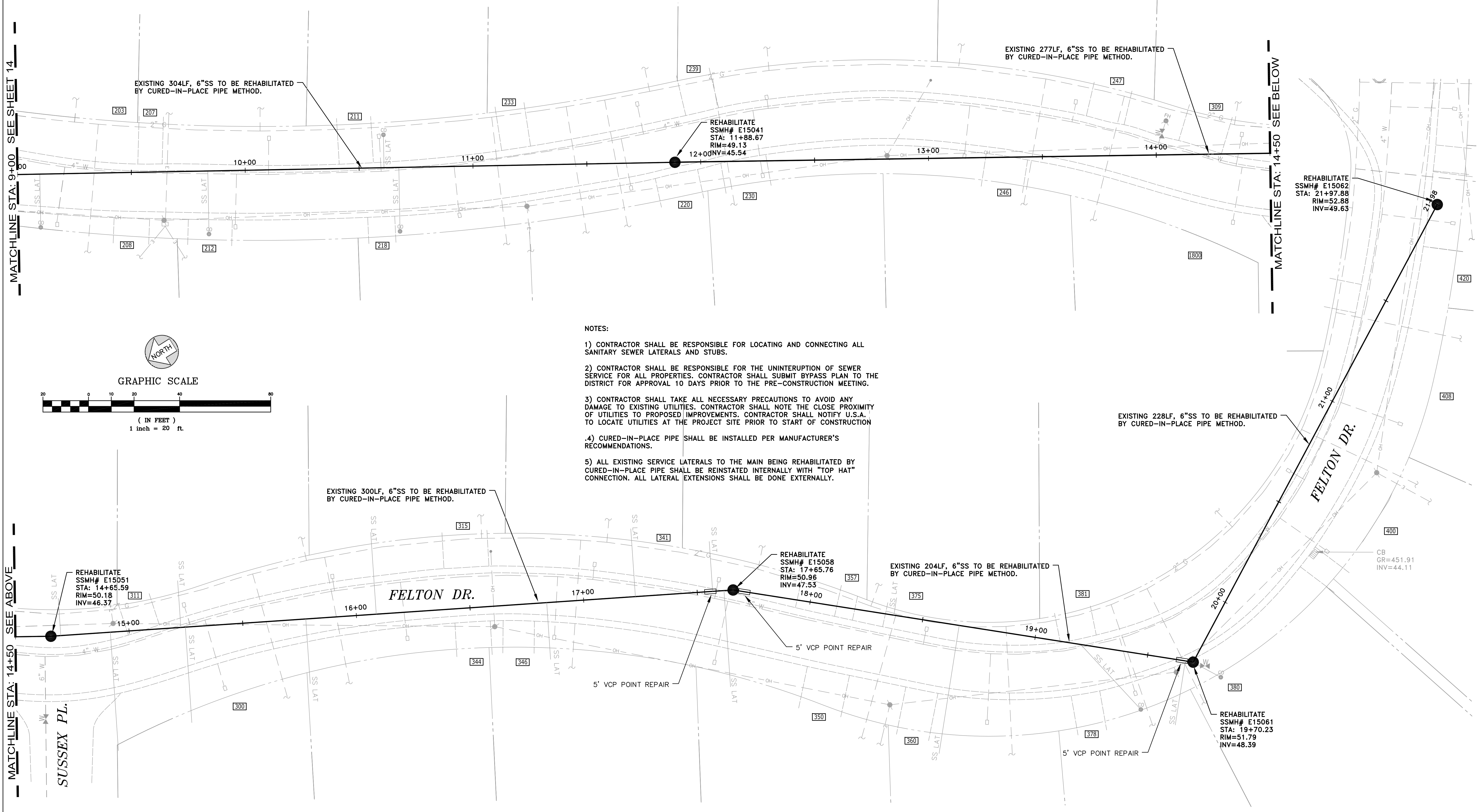
**CAPITAL IMPROVEMENT PROJECT 2010-2011 (PHASE 2)**  
**ADD ALTERNATE FELTON DRIVE**  
**STA: 0+00.00 - 9+00.00**  
**MENLO PARK, CALIFORNIA**

14  
JOB No.  
1058

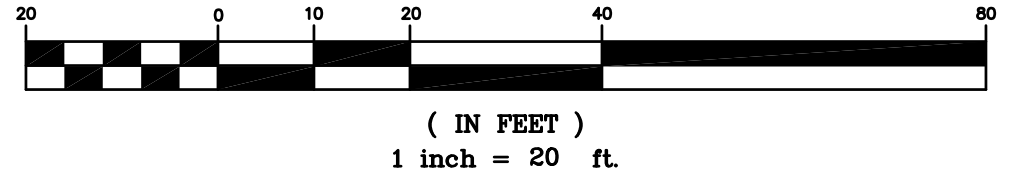
MATCHLINE STA: 9+00 SEE SHEET 14

MATCHLINE STA: 14+50 SEE BELOW

MATCHLINE STA: 14+50 SEE ABOVE



GRAPHIC SCALE



NOTES:

- 1) CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND CONNECTING ALL SANITARY SEWER LATERALS AND STUBS.
- 2) CONTRACTOR SHALL BE RESPONSIBLE FOR THE UNINTERRUPTION OF SEWER SERVICE FOR ALL PROPERTIES. CONTRACTOR SHALL SUBMIT BYPASS PLAN TO THE DISTRICT FOR APPROVAL 10 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 3) CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID ANY DAMAGE TO EXISTING UTILITIES. CONTRACTOR SHALL NOTE THE CLOSE PROXIMITY OF UTILITIES TO PROPOSED IMPROVEMENTS. CONTRACTOR SHALL NOTIFY U.S.A. TO LOCATE UTILITIES AT THE PROJECT SITE PRIOR TO START OF CONSTRUCTION.
- 4) CURED-IN-PLACE PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- 5) ALL EXISTING SERVICE LATERALS TO THE MAIN BEING REHABILITATED BY CURED-IN-PLACE PIPE SHALL BE REINSTATED INTERNALLY WITH "TOP HAT" CONNECTION. ALL LATERAL EXTENSIONS SHALL BE DONE EXTERNALLY.

|             |           |                          |                |
|-------------|-----------|--------------------------|----------------|
| DATE:       | 07/20/11  | 07/20/11                 | ISSUED FOR BID |
| SCALE:      | AS NOTED  |                          |                |
| DESIGNED:   | RJL       |                          |                |
| DRAWN:      | JJF/JL/AW |                          |                |
| CHECKED:    | RJL       |                          |                |
| PROJ. ENGR: | RJL       |                          |                |
| BY          | DATE      | DESCRIPTION OF REVISIONS | APP'D          |

**FL** **FREYER & LAURETA, INC.**  
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1756.7B



**CAPITAL IMPROVEMENT PROJECT 2010-2011 (PHASE 2)**  
**ADD ALTERNATE FELTON DRIVE**  
**STA: 9+00.00 - 21+97.88**  
**MENLO PARK, CALIFORNIA**

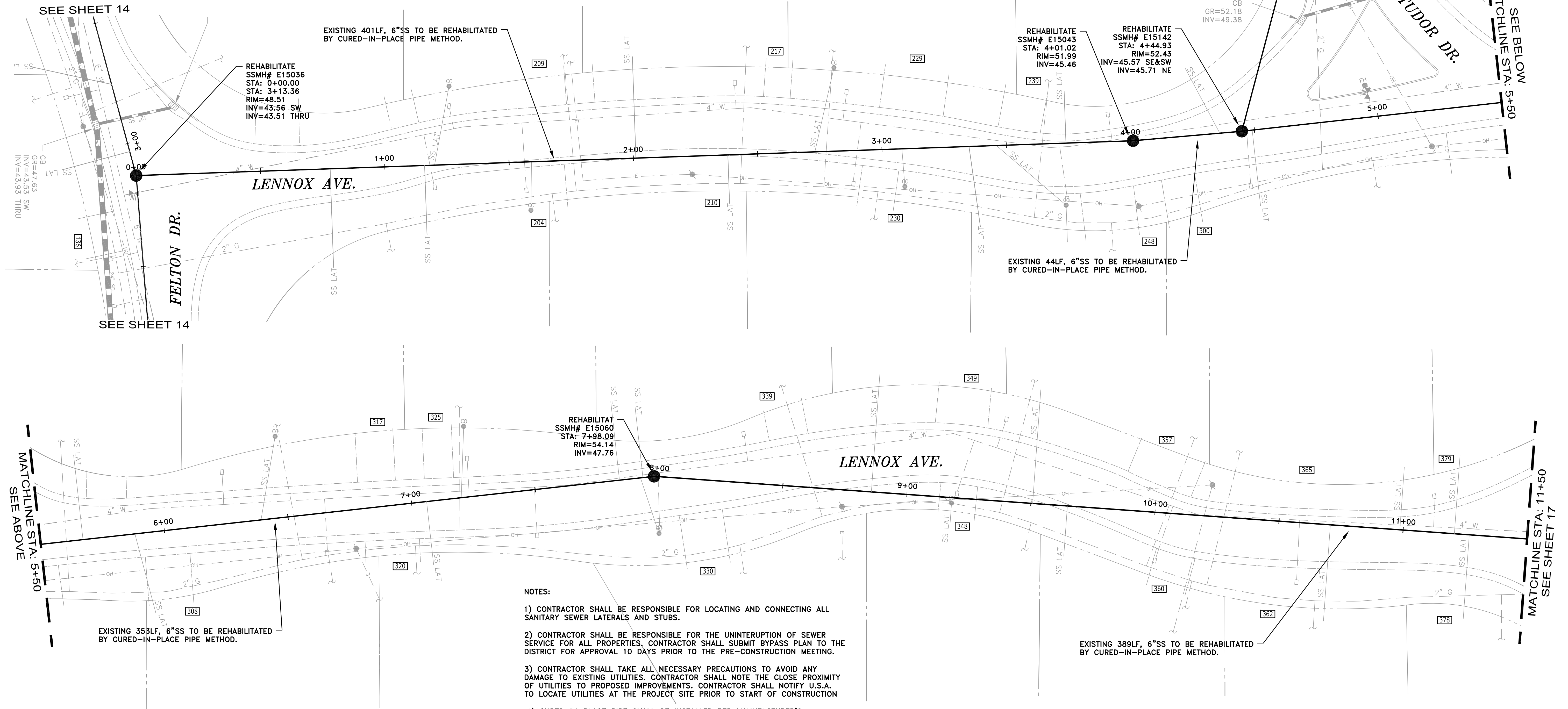
15  
 JOB NO.  
 1058



GRAPHIC SCALE



( IN FEET )  
1 inch = 20 ft.



NOTES:

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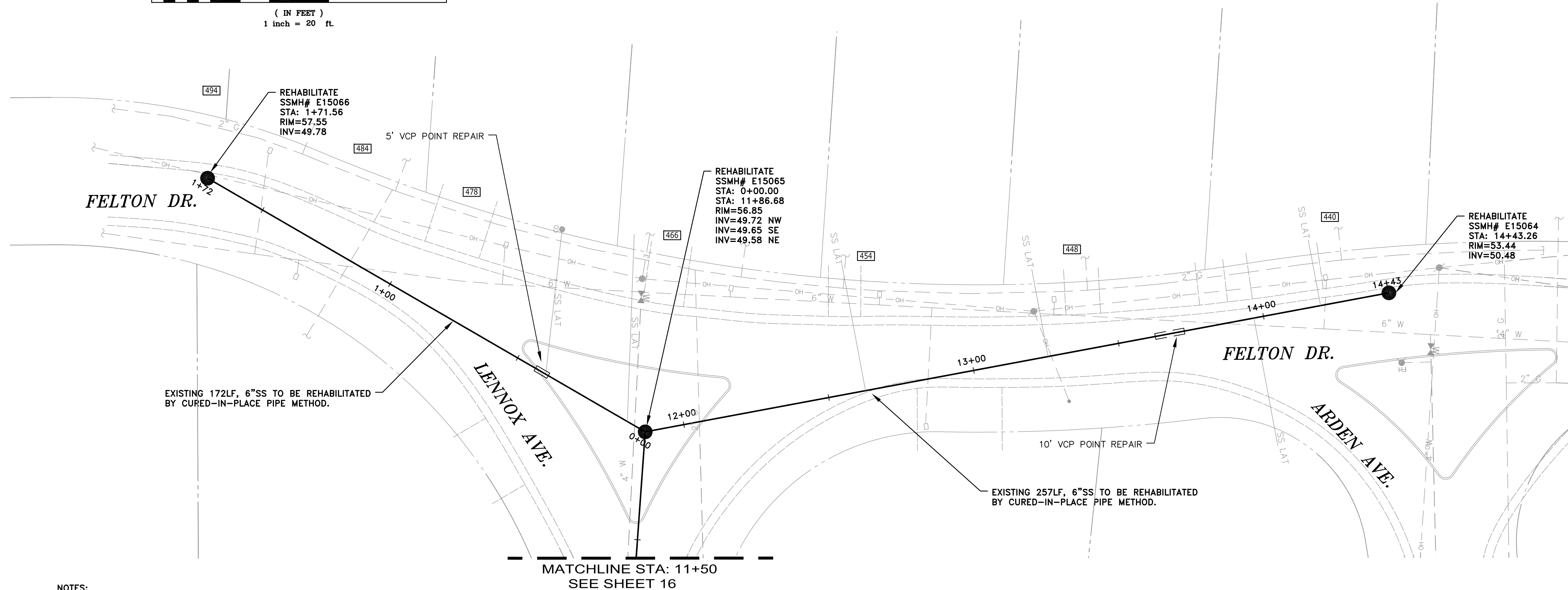
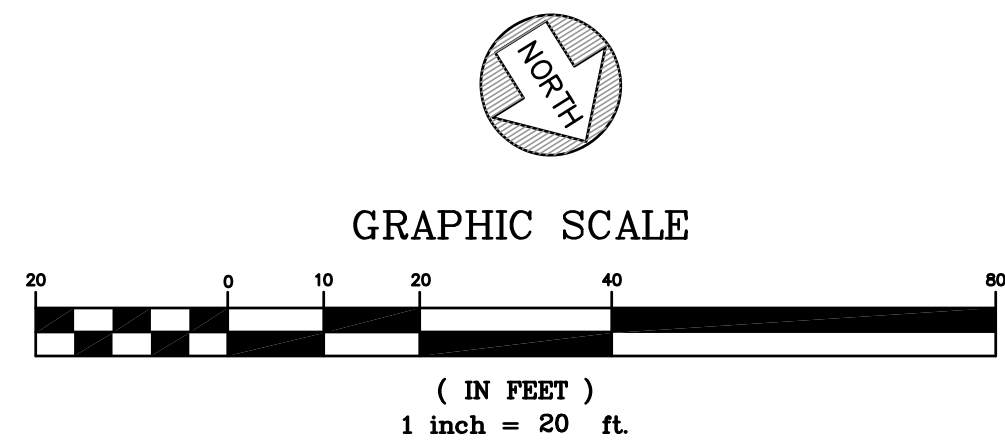
**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY  
PROJECT No. 1756.7B



**CAPITAL IMPROVEMENT PROJECT 2010-2011 (PHASE 2)**  
**ADD ALTERNATE LENNOX AVE**  
**STA: 0+00.00 - 11+50.00**  
**MENLO PARK, CALIFORNIA**

16  
JOB NO.  
1058





**NOTES:**

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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1756.7B



**CAPITAL IMPROVEMENT PROJECT 2010-2011 (PHASE 2)**  
 ADD ALTERNATE LENNOX AVE  
 STA: 11+50.00 - 14+43.26  
 MENLO PARK, CALIFORNIA

17  
 JOB NO.  
 1058

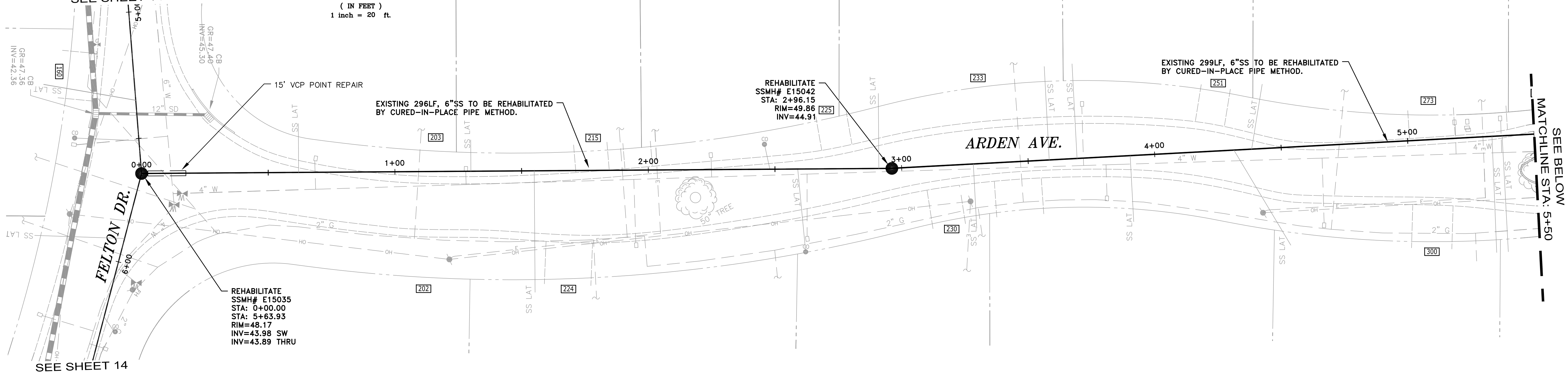


GRAPHIC SCALE



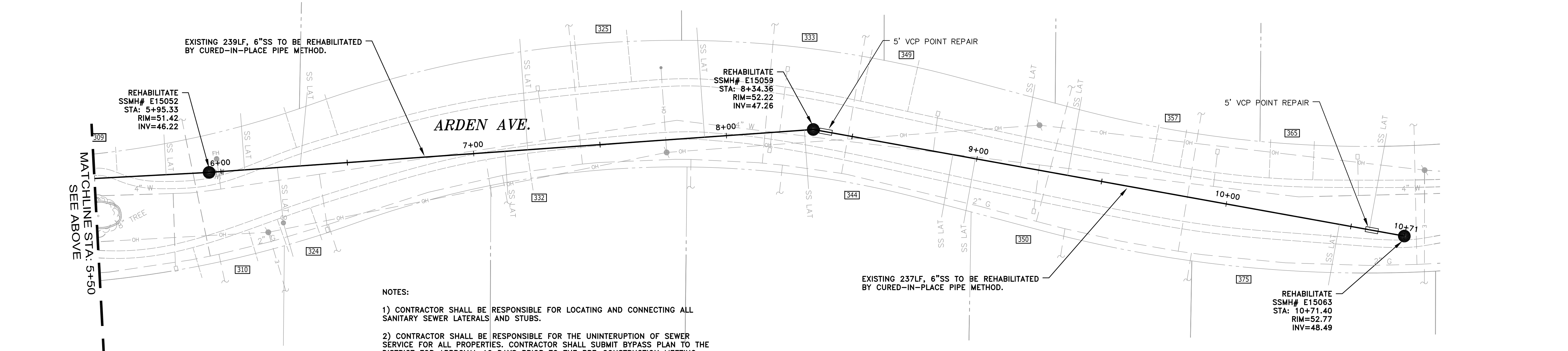
( IN FEET )  
1 inch = 20 ft.

SEE SHEET 14



SEE SHEET 14

SEE BELOW  
MATCHLINE STA: 5+50



MATCHLINE STA: 5+50  
SEE ABOVE

NOTES:

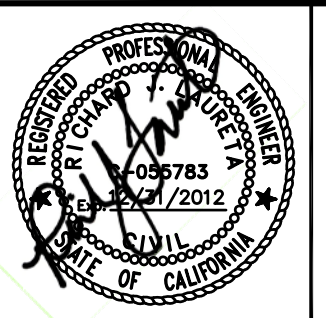
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| BY          | DATE      | DESCRIPTION OF REVISIONS | APP'D          |  |

**FREYER & LAURETA, INC.**  
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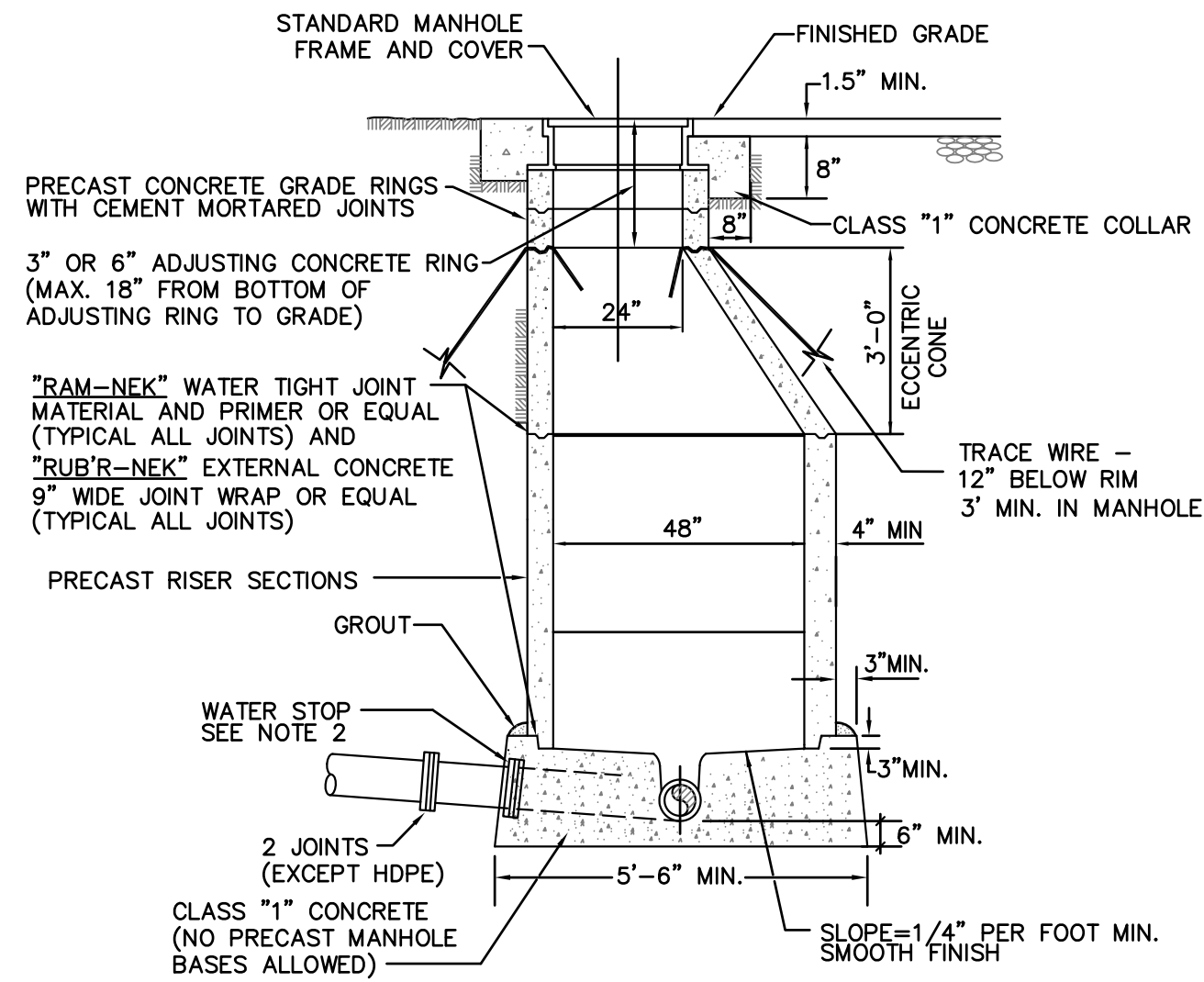
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**WEST BAY**  
 SANITARY DISTRICT  
 SAN MATEO COUNTY  
 PROJECT No. 1756.7B



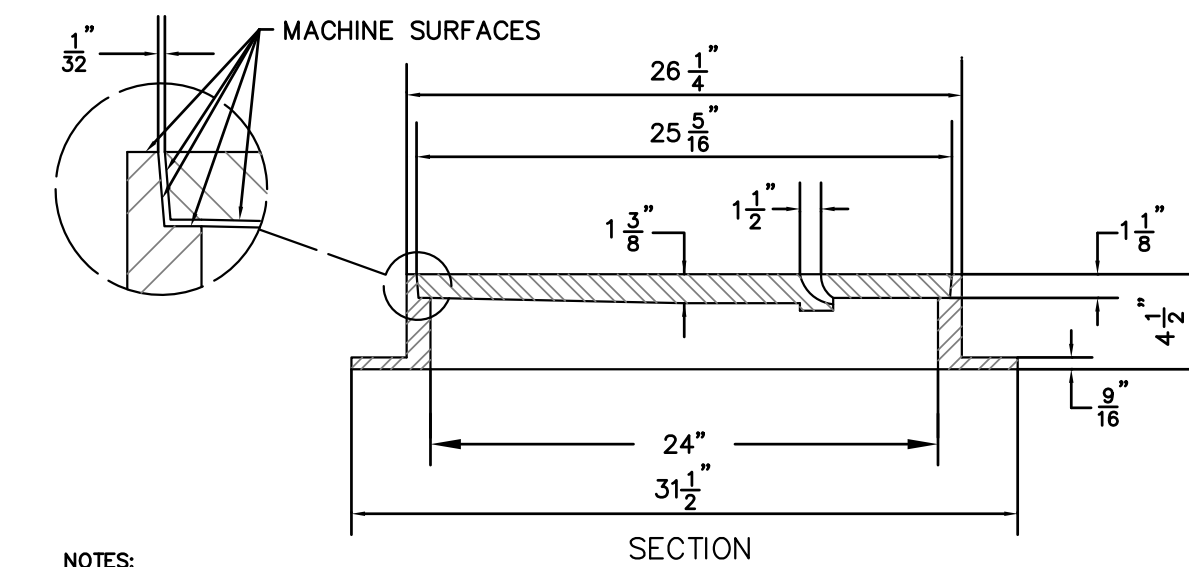
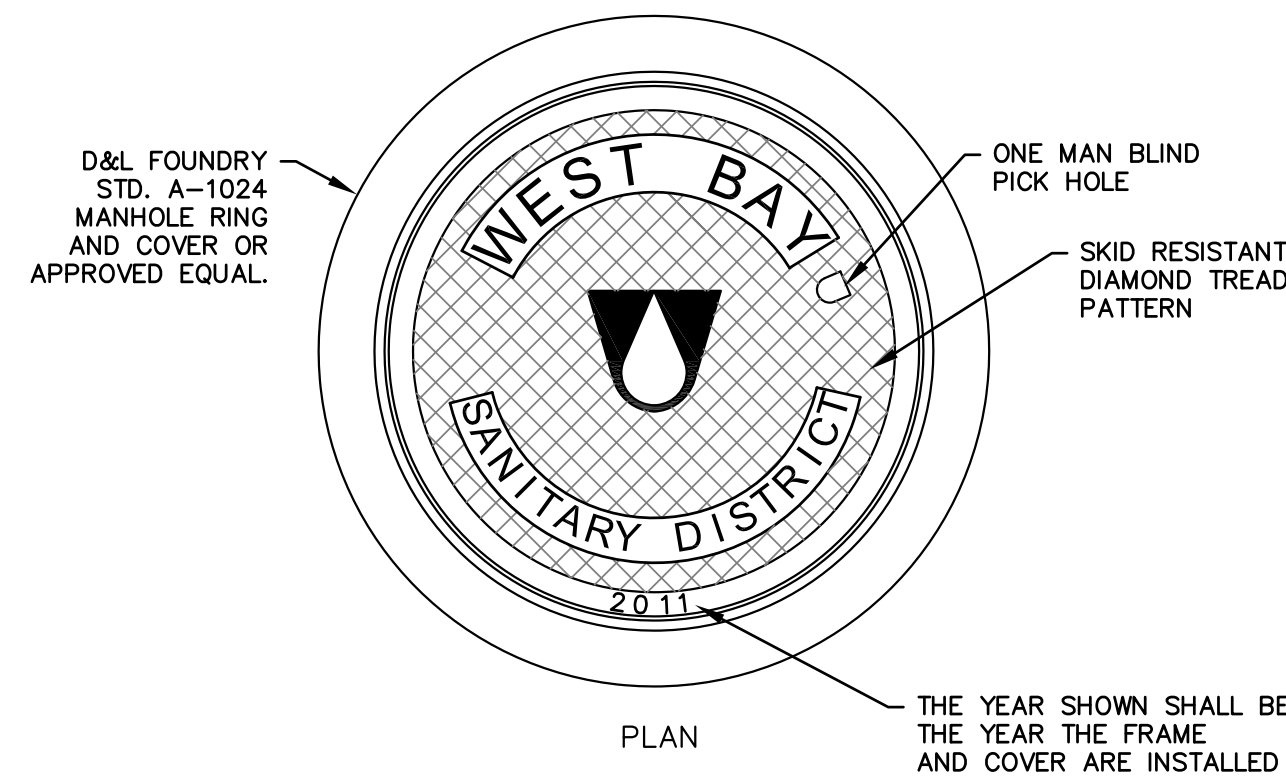
**CAPITAL IMPROVEMENT PROJECT 2010-2011 (PHASE 2)**  
**ADD ALTERNATE ARDEN AVE**  
**STA: 0+00.00 - 10+71.40**  
**MENLO PARK, CALIFORNIA**

18  
 JOB NO.  
 1058



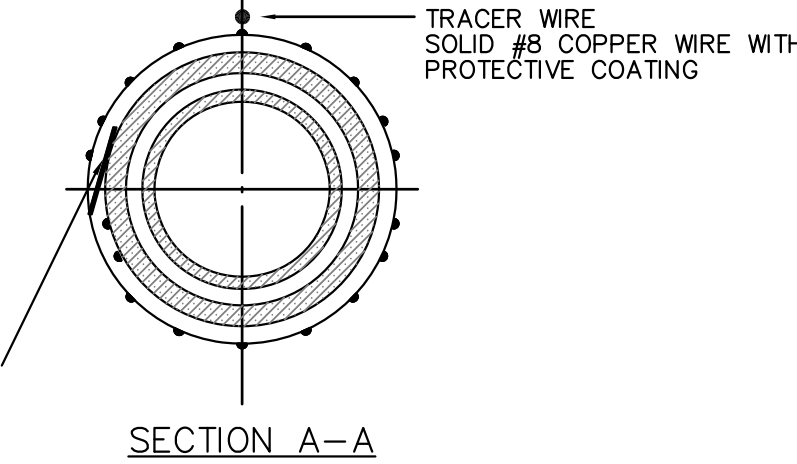
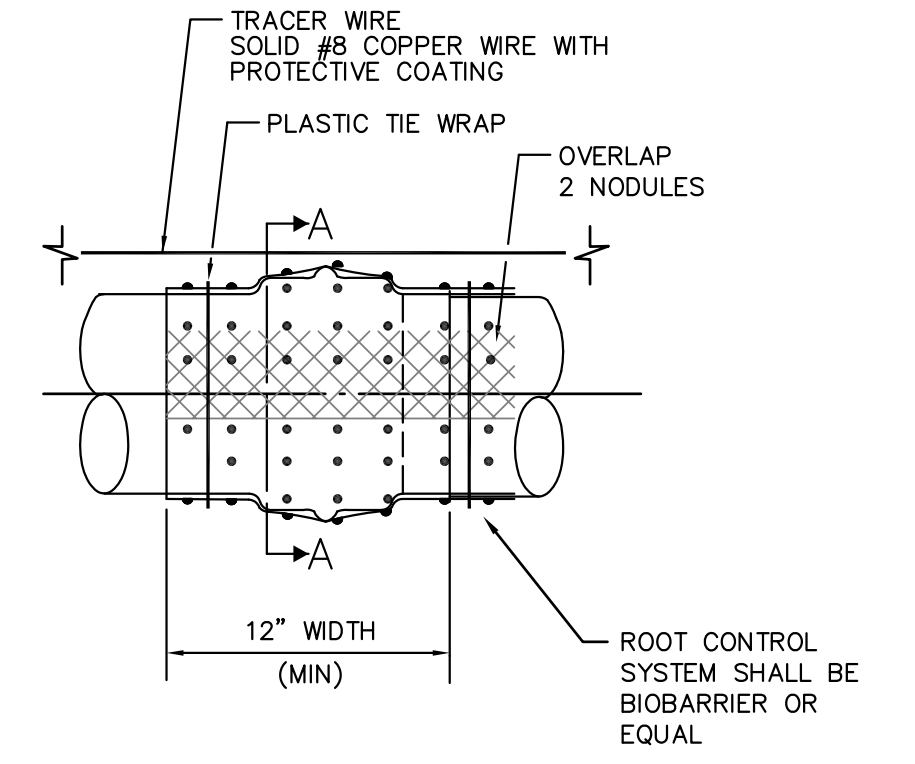
- NOTES:**
- 1) MANHOLE BASES SHALL BE PLACED ON IMPORTED BEDDING MATERIAL COMPACTED TO 95% RELATIVE COMPACTION.
  - 2) AN APPROVED WATER STOP SHALL BE INSTALLED ON ALL FLEXIBLE PIPE ENTERING OR LEAVING A MANHOLE, AND CENTERED UNDER MANHOLE WALL.
  - 3) INSTALL "RAM-NEK" WATER TIGHT JOINT MATERIAL OR EQUAL BETWEEN EACH JOINT OF CONE AND BARREL SECTIONS TO MAKE A FLEXIBLE WATERTIGHT JOINT. AFTER JOINT IS MADE, TRIM JOINT SMOOTH ON INSIDE OF MANHOLE.
  - 4) STEPS IN MANHOLES ARE NOT ALLOWED.
  - 5) TRACE WIRE SHALL BE PLACED 12" BELOW RIM WITH 3' COILED UP IN MANHOLE.
  - 6) MANHOLES SHALL BE VACUUM TESTED.
  - 7) ECCENTRIC CONE SHALL BE POSITIONED IN SUCH A MANNER OVER CENTER OF PIPE FOR INSTALLATION OF FLOW METER SENSOR BRACKET.
  - 8) CONCRETE BASE SHALL CURE FOR A MINIMUM OF 24 HOURS PRIOR TO PLACEMENT OF BARREL AND CONE SECTIONS.

**MANHOLE FOR 21" DIAMETER AND SMALLER PIPE**



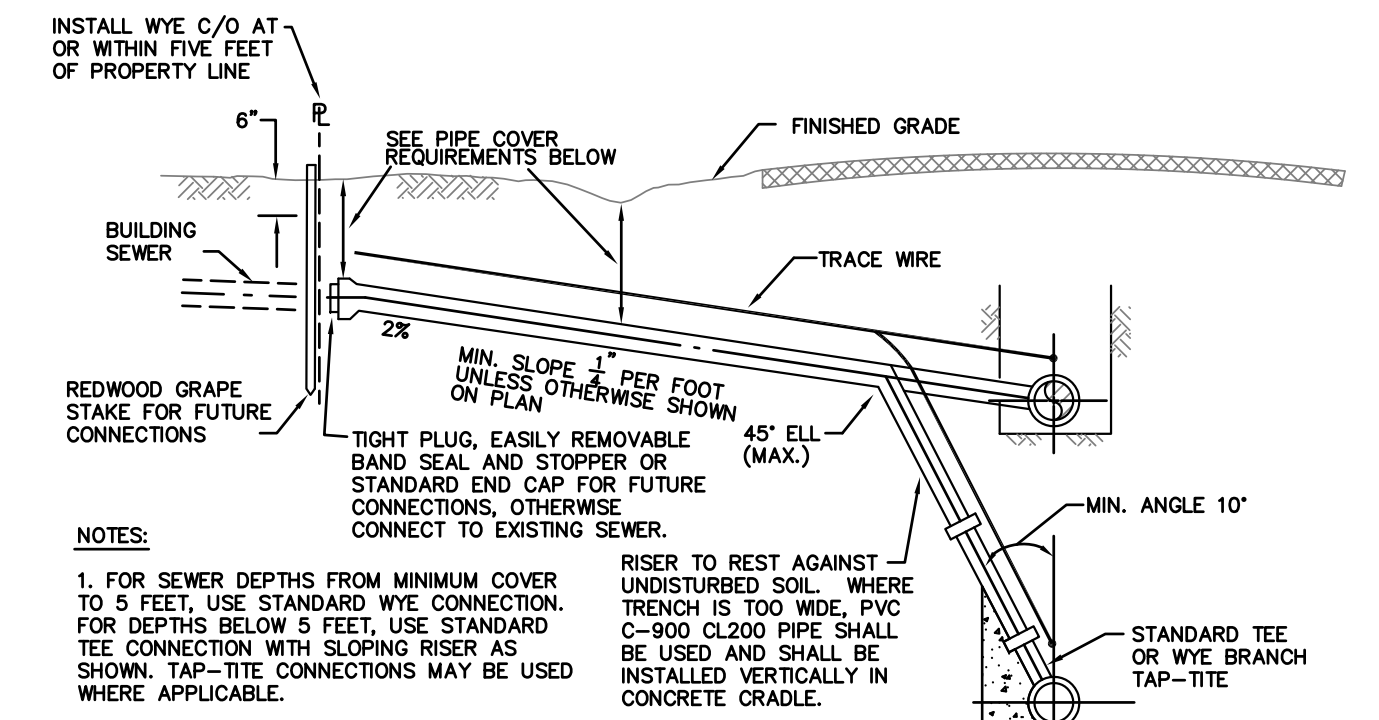
- NOTES:**
- 1) CAST IRON FOR FRAME AND COVER SHALL BE CLASS 30 MINIMUM PER ASTM A-48.
  - 2) COVERS SHALL BE H-20 LOADING AND SHALL NOT EXCEED 145 POUNDS IN WEIGHT.
  - 3) THE FRAME AND COVER SHALL BE PAINTED OR DIPPED IN ASPHALT PRIOR TO LEAVING FOUNDRY.

**MANHOLE FRAME AND COVER**



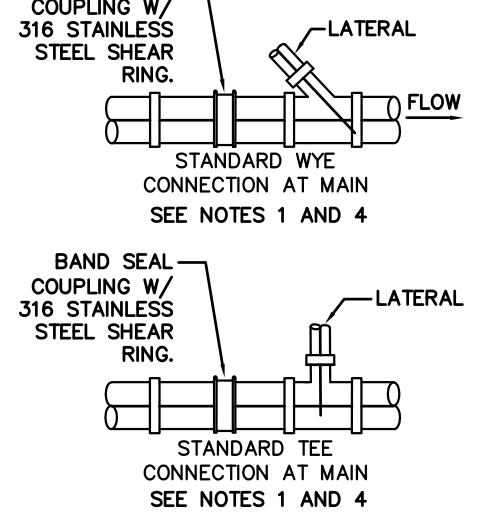
- APPLICATION:**
- 1) ALL NEW MAIN SEWER PROJECTS.
  - 2) ALL NEW OR REPLACEMENT SANITARY SEWER LATERAL CONNECTIONS.
  - 3) SANITARY SEWER LATERAL REPAIRS.

**ROOT CONTROL SYSTEM**

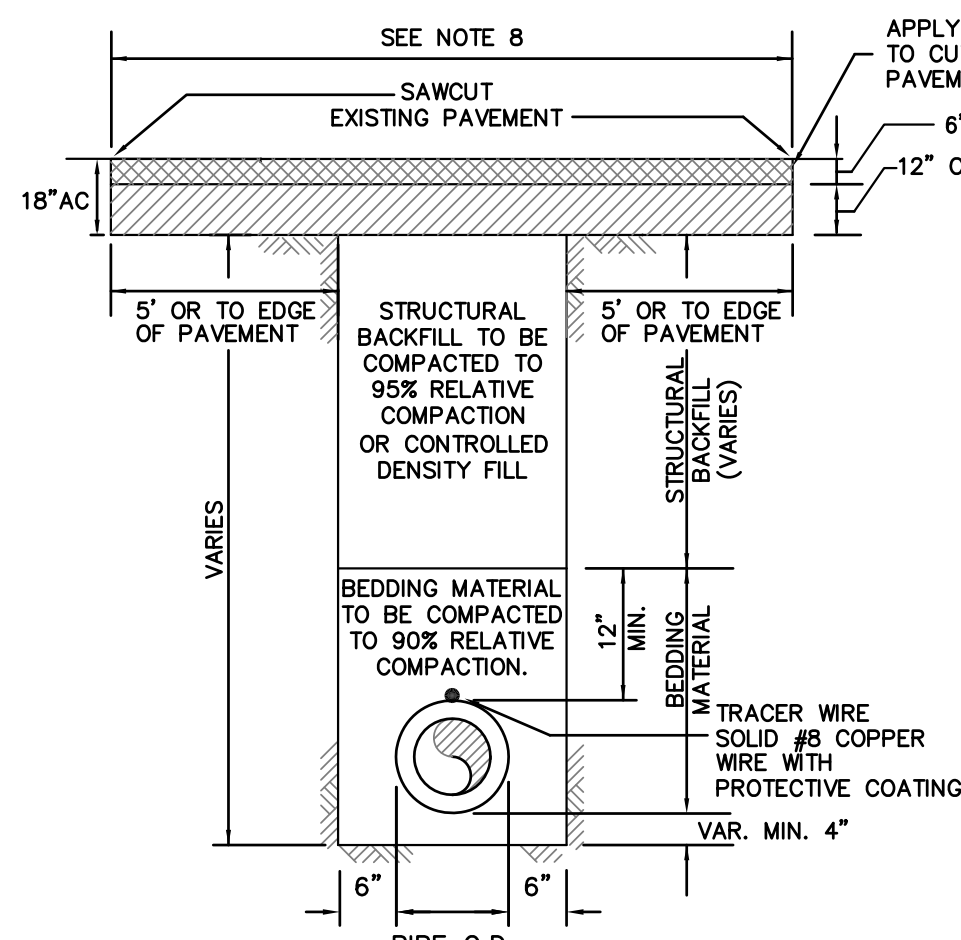


- NOTES:**
1. FOR SEWER DEPTHS FROM MINIMUM COVER UNDISTURBED SOIL WHERE TRENCH IS TOO WIDE, PVC C-900 CL200 PIPE SHALL BE USED AND SHALL BE INSTALLED VERTICALLY IN CONCRETE CRADLE.
  2. WHEN SEWER IS AT MINIMUM DEPTH, HOLD SERVICE LINE TO MINIMUM SLOPE AND LESSEN COVER AT PROPERTY LINE. OTHERWISE 3 FEET OF COVER TO ORIGINAL GRADE IS REQUIRED AT PROPERTY LINE.
  3. THE LOCATION OF ALL SEWER LATERALS SHALL BE MARKED WITH A LETTER "S" ON TOP OF CURB OR BACK OF WALK.
  4. ALL SERVICE TEES OR WYES SHALL BE MANUFACTURER'S STANDARD FITTINGS. CONNECTION CLOSURE SHALL BE BY STANDARD BAND SEAL COUPLINGS WITH 316 STAINLESS STEEL SHEAR RING ON SERVICE ADDITIONS. NO PIPE BREAKING AND CONCRETE PATCHING WILL BE PERMITTED, ONLY NEATLY SNAPPED OR SAWCUT LENGTHS WILL BE ALLOWED.
  5. 8 GAUGE COPPER WIRE FOR TRACING PURPOSES SHALL BE PLACED ON ALL NEW LATERALS AND REPLACEMENT LATERALS WHEN EXCAVATION IS FROM MAIN LINE TO THE PROPERTY LINE CLEANOUT. WIRE TO BE BROUGHT TO RISER WITH TWO FEET COILED INSIDE BOX.
  6. TAP-TITE AND TEE CONNECTIONS ARE NOT ALLOWED IN TERMINATING SEWER MAINS (MOST UPSTREAM LINE).
  7. CONTRACTOR SHALL PLACE ROOT CONTROL FABRIC OVER ALL JOINTS AS SHOWN ON WEST BAY SANITARY DISTRICT DETAIL NO. 13.
  8. CONTRACTOR SHALL INSTALL BEDDING AND BACKFILL MATERIAL AS SHOWN ON WEST BAY SANITARY DISTRICT DETAIL NO. 8.

**DEEP SEWER - GREATER THAN 10'**



**SANITARY SEWER LATERAL CONNECTIONS**



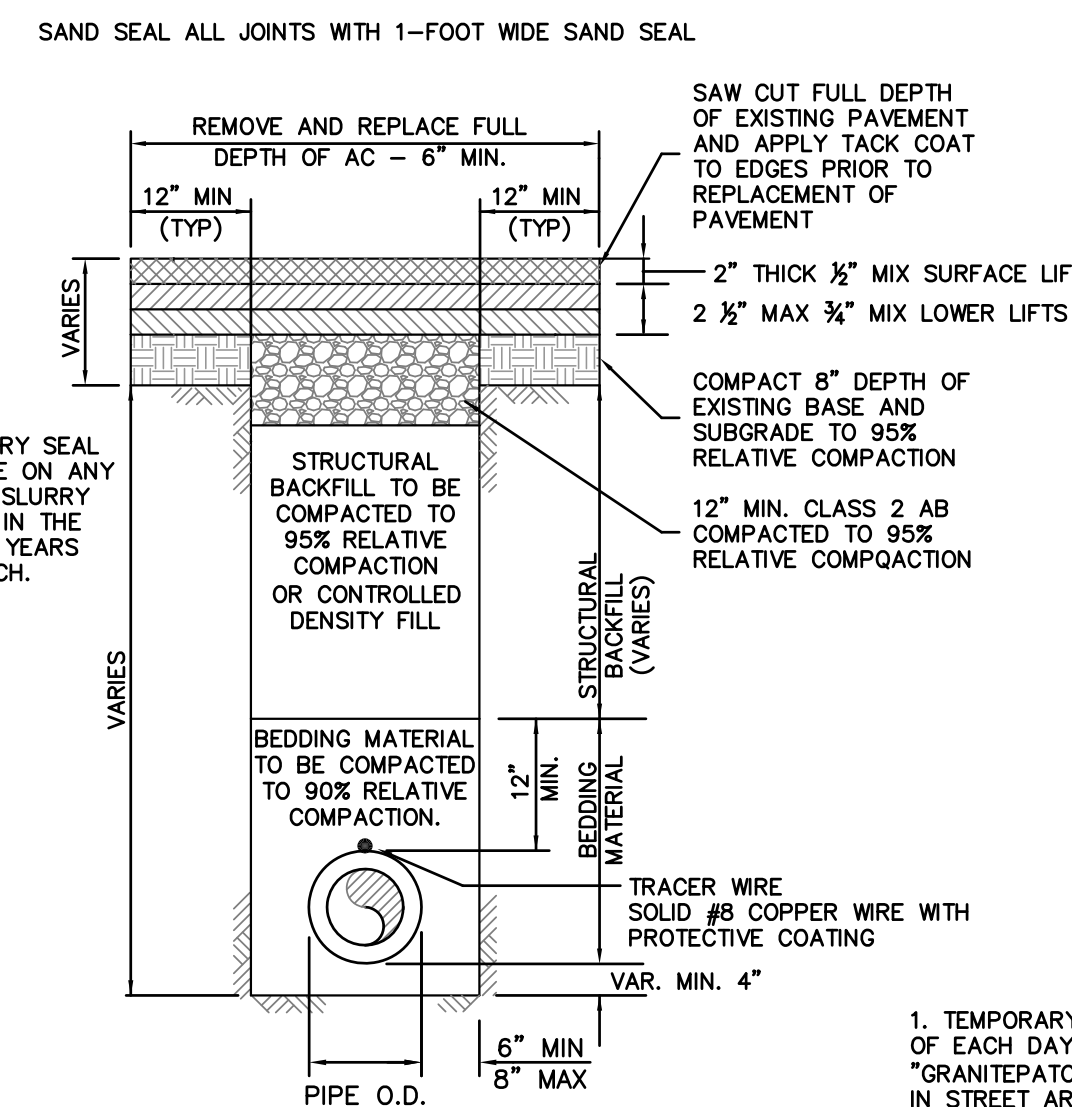
**BEDDING MATERIAL**

GRANULAR BEDDING MATERIAL REQUIREMENTS (ASTM D448 SIZE #67)

| SIEVE SIZES | PERCENTAGE PASSING |
|-------------|--------------------|
| 1"          | 100                |
| 3/4"        | 90-100             |
| 3/8"        | 20-55              |
| #4          | 0-10               |
| #8          | 0-5                |

- NOTE:**
1. THE MIX DESIGN FOR CDF SHALL MEET THE FOLLOWING REQUIREMENTS:  
CEMENT 50-100 LB/CU. YD  
FLY ASH, CLASS F 10-2000 LB/CU. YD  
FINE AGGREGATE 2600-3100 LB/CU.YD  
WATER 325/580 LB/CU.YD  
STRENGTH @ 28 DAY 50-100 PSI
  2. STRUCTURAL BACKFILL MATERIAL: MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20 AND SIEVE GRADATION BY MATERIAL AS FOLLOWS:  
SIEVE SIZE 75mm (3")  
No. 4 35-100  
No. 30 20-100
  3. BACKFILL MATERIAL: MATERIAL FROM EXCAVATION FREE FROM STONES OR LUMPS EXCEEDING 75mm (3"), VEGETABLE MATTER OR OTHER UNSATISFACTORY MATERIAL.
  4. NOT USED
  5. FOR ALL TRENCHING IN THE STREET RIGHT OF WAY, THE CONTRACTOR SHALL PLACE SLURRY SEAL TO CONFORM TO CITY STANDARD ST-16.
  6. TRENCH TO BE FLUSH WITH EXISTING GRADE IF NOT CORRECTIVE MEASURES TO BE IMPLEMENTED.
  7. CUT EDGE OF EXISTING PAVEMENT SHALL NOT LIE WITHIN THE WHEELTRACK. SEE CITY STANDARD ST-9B FOR WHEEL TRACK DIAGRAM.
  8. THE WEST BAY SANITARY DISTRICT SHALL BE RESPONSIBLE FOR THE PAYMENT OF PAVEMENT RESTORATION OVER THE MAXIMUM TRENCH WIDTH AS SHOWN ON THE ABOVE DETAIL. ANYTHING BEYOND THE MAXIMUM TRENCH WIDTH, INCLUDING PAVEMENT FAILURE CAUSED BY THE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS AUTHORIZED BY THE DISTRICT.
  9. TEMPORARY PAVEMENT SHALL BE PLACED IN UNPLATED TRENCHES AT THE END OF EACH DAY. MATERIAL SHALL BE HIGH QUALITY PATCH MIX SUCH AS "GRANITEPATCH", "QUICKPATCH", OR "DUROPATCH". CUTBACK SHALL NOT BE USED IN STREET AREAS FOR TEMPORARY PATCHING.
  10. PERMANENT SURFACE RESTORATION SHALL BE INSTALLED NO SOONER THAN 10 DAYS AND NO MORE THAN 25 WORKING DAYS AFTER TEMPORARY SURFACE IS FIRST PUT IN PLACE.

**UTILITY TRENCH-CITY OF MENLO PARK-RIGHT OF WAY (MODIFIED PER CITY OF MENLO PARK STANDARDS)**



**BEDDING MATERIAL**

GRANULAR BEDDING MATERIAL REQUIREMENTS (ASTM D448 SIZE #67)

| SIEVE SIZES | PERCENTAGE PASSING |
|-------------|--------------------|
| 1"          | 100                |
| 3/4"        | 90-100             |
| 3/8"        | 20-55              |
| #4          | 0-10               |
| #8          | 0-5                |

**CONTROL DENSITY FILL**

THE MIX DESIGN FOR CDF SHALL MEET THE FOLLOWING REQUIREMENTS:

|                   |                    |
|-------------------|--------------------|
| CEMENT            | 50-100 LB/CU. YD   |
| FLY ASH, CLASS F  | 10-2000 LB/CU. YD  |
| FINE AGGREGATE    | 2600-3100 LB/CU.YD |
| WATER             | 325/580 LB/CU.YD   |
| STRENGTH @ 28 DAY | 50-100 PSI         |

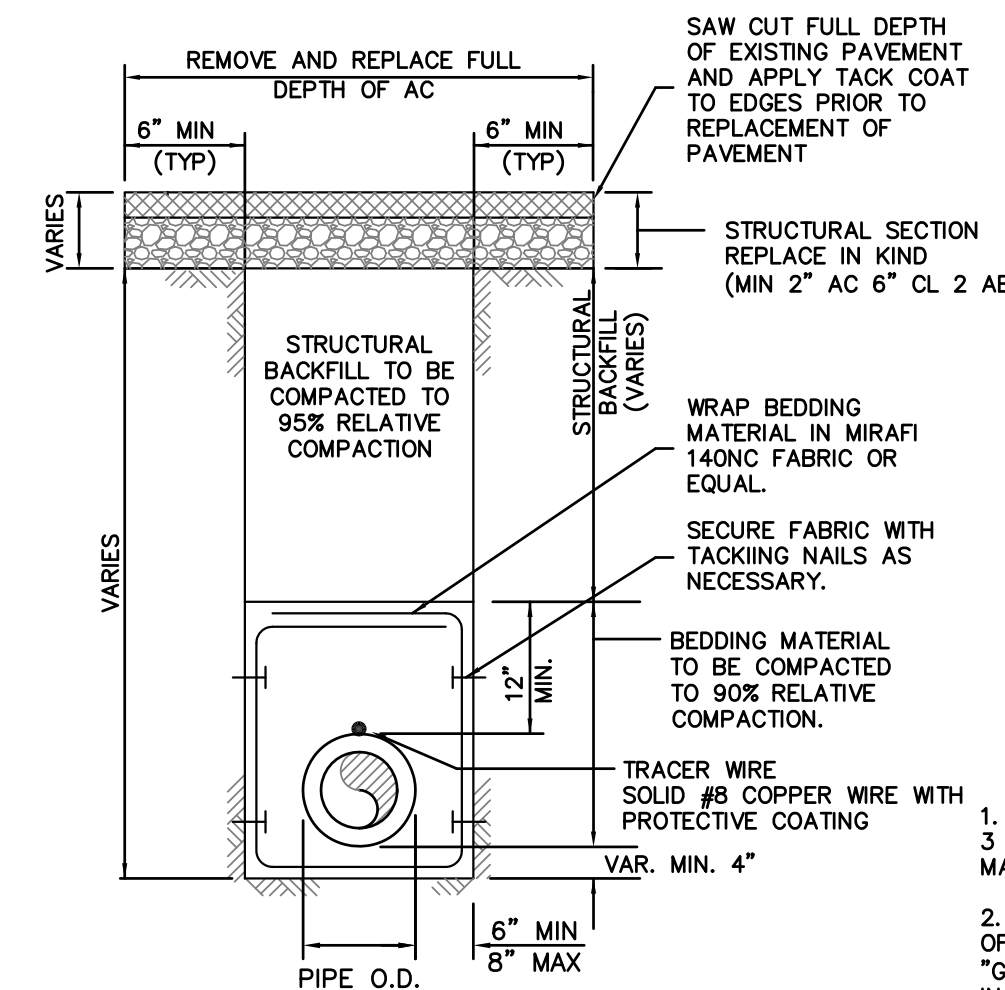
**STRUCTURAL BACKFILL MATERIAL**

STRUCTURAL BACKFILL MATERIAL: MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20 AND SIEVE GRADATION BY MATERIAL AS FOLLOWS:

| SIEVE SIZE | % PASSING SIEVE |
|------------|-----------------|
| 75mm (3")  | 100             |
| No. 4      | 35-100          |
| No. 30     | 20-100          |

1. TEMPORARY PAVEMENT SHALL BE PLACED IN UNPLATED TRENCHES AT THE END OF EACH DAY. MATERIAL SHALL BE HIGH QUALITY PATCH MIX SUCH AS "GRANITEPATCH", "QUICKPATCH", OR "DUROPATCH". CUTBACK SHALL NOT BE USED IN STREET AREAS FOR TEMPORARY PATCHING.
2. PERMANENT SURFACE RESTORATION SHALL BE INSTALLED NO SOONER THAN 10 DAYS AND NO MORE THAN 25 WORKING DAYS AFTER TEMPORARY SURFACE IS FIRST PUT IN PLACE.

**UTILITY TRENCH-TOWN OF ATHERTON-RIGHT OF WAY (MODIFIED PER TOWN OF ATHERTON STANDARDS)**



**BEDDING MATERIAL**

GRANULAR BEDDING MATERIAL REQUIREMENTS (ASTM D448 SIZE #67)

| SIEVE SIZES | PERCENTAGE PASSING |
|-------------|--------------------|
| 1"          | 100                |
| 3/4"        | 90-100             |
| 3/8"        | 20-55              |
| #4          | 0-10               |
| #8          | 0-5                |

**STRUCTURAL BACKFILL MATERIAL**

STRUCTURAL BACKFILL MATERIAL: MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20 AND SIEVE GRADATION BY MATERIAL AS FOLLOWS:

| SIEVE SIZE | % PASSING SIEVE |
|------------|-----------------|
| 75mm (3")  | 100             |
| No. 4      | 35-100          |
| No. 30     | 20-100          |

1. ALL BACK FILL MATERIAL SHALL BE FREE FROM STONES OR LUMPS EXCEEDING 3 INCHES GREATEST DIMENSION, ORGANIC MATTER, OR OTHER UNSATISFACTORY MATERIAL.
2. TEMPORARY PAVEMENT SHALL BE PLACED IN UNPLATED TRENCHES AT THE END OF EACH DAY. MATERIAL SHALL BE HIGH QUALITY PATCH MIX SUCH AS "GRANITEPATCH", "QUICKPATCH", OR "DUROPATCH". CUTBACK SHALL NOT BE USED IN STREET AREAS FOR TEMPORARY PATCHING.
3. PERMANENT SURFACE RESTORATION SHALL BE INSTALLED NO SOONER THAN 10 DAYS AND NO MORE THAN 25 WORKING DAYS AFTER TEMPORARY SURFACE IS FIRST PUT IN PLACE.

**UTILITY TRENCH-SAN MATEO COUNTY-RIGHT OF WAY (MODIFIED PER SAN MATEO COUNTY STANDARDS)**

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| BY          | DATE      | DESCRIPTION OF REVISIONS | APP'D          |

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**WEST BAY**  
SANITARY DISTRICT  
SAN MATEO COUNTY

PROJECT No. 1756.7B



**CAPITAL IMPROVEMENT PROJECT 2010-2011 (PHASE 2)**

**DETAIL SHEET**  
**SAN MATEO COUNTY, CALIFORNIA**

19

JOB NO.

1058