

WEST BAY SANITARY DISTRICT

SAN MATEO COUNTY CALIFORNIA

CAPITAL IMPROVEMENT PROJECT 2010-2011

REPLACEMENT AND CONSTRUCTION OF SANITARY SEWER MAINS ATHERTON AVE, WILLOW ROAD, CORTE MADERA FORCEMAIN, AND LADERA EASEMENT.

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 TAMING 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.

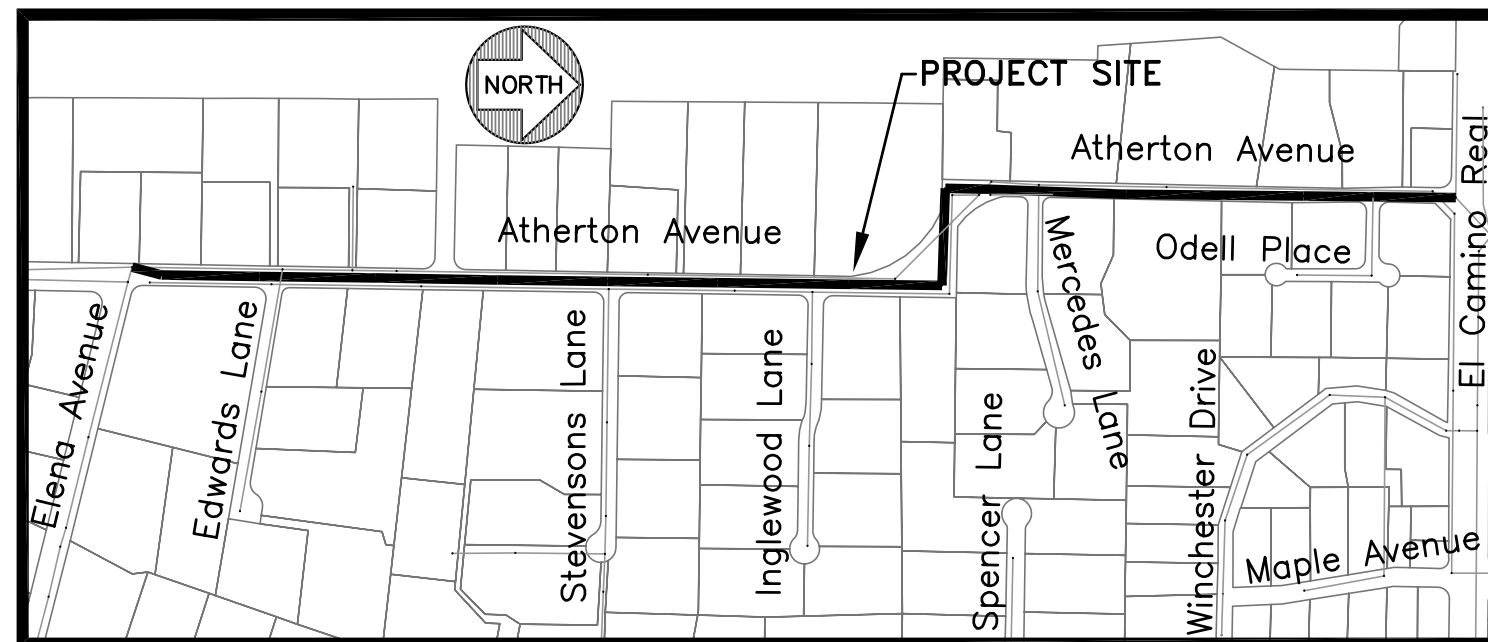
Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property; 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

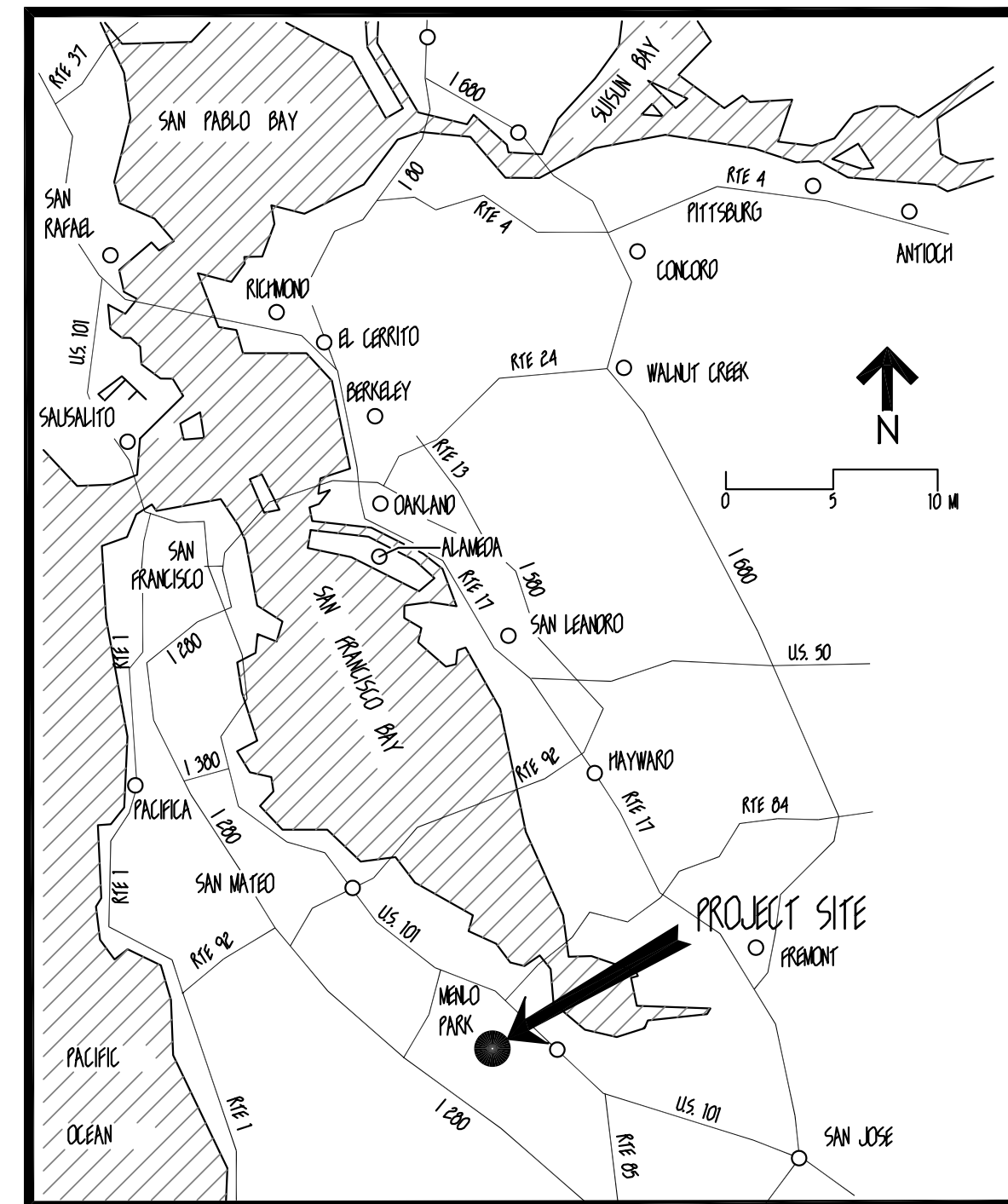
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 DAVID WALKER SECRETARY
 EDWARD P. MORITZ TREASURER
 HARRY HARRISON DIRECTOR
 FRAN DEHN DIRECTOR

LEGEND

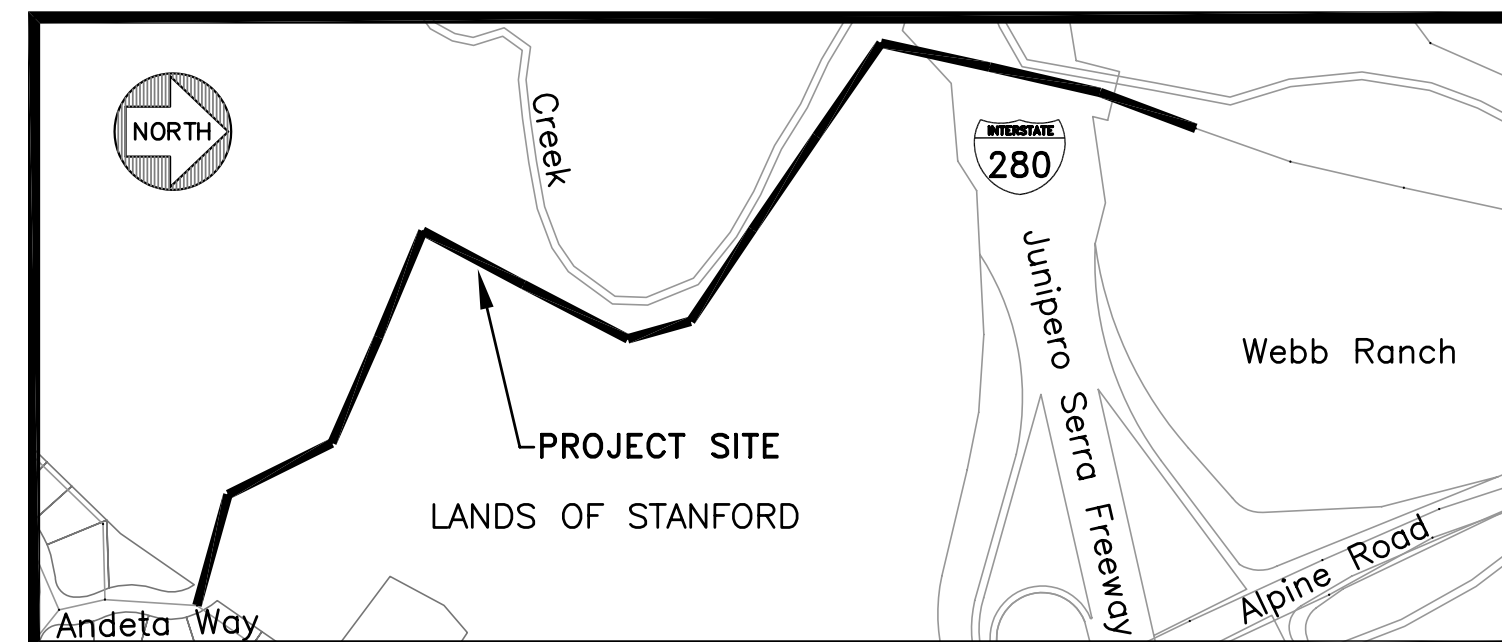
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|--|------------------------------------|--|--------------------------------------|
| | SANITARY SEWER TO BE INSTALLED | | EXISTING JOINT POLE/ POWER POLE |
| | EXISTING SANITARY SEWER | | EXISTING GAS VALVE |
| | EXISTING LATERAL | | EXISTING WATER VALVE |
| | EXISTING GAS LINE | | EXISTING WATER METER |
| | EXISTING ELECTRICAL LINE OVER HEAD | | EXISTING CLEAN OUT |
| | EXISTING WATER LINE | | EXISTING FIRE HYDRANT |
| | EXISTING STORM DRAIN | | EXISTING SEWER / STORM DRAIN MANHOLE |
| | ROLLED CURB AND GUTTER | | EXISTING ELECTRICAL PULL BOX |
| | CURB AND GUTTER | | EXISTING CATCH BASIN |
| | | | TRAFFIC SIGN |



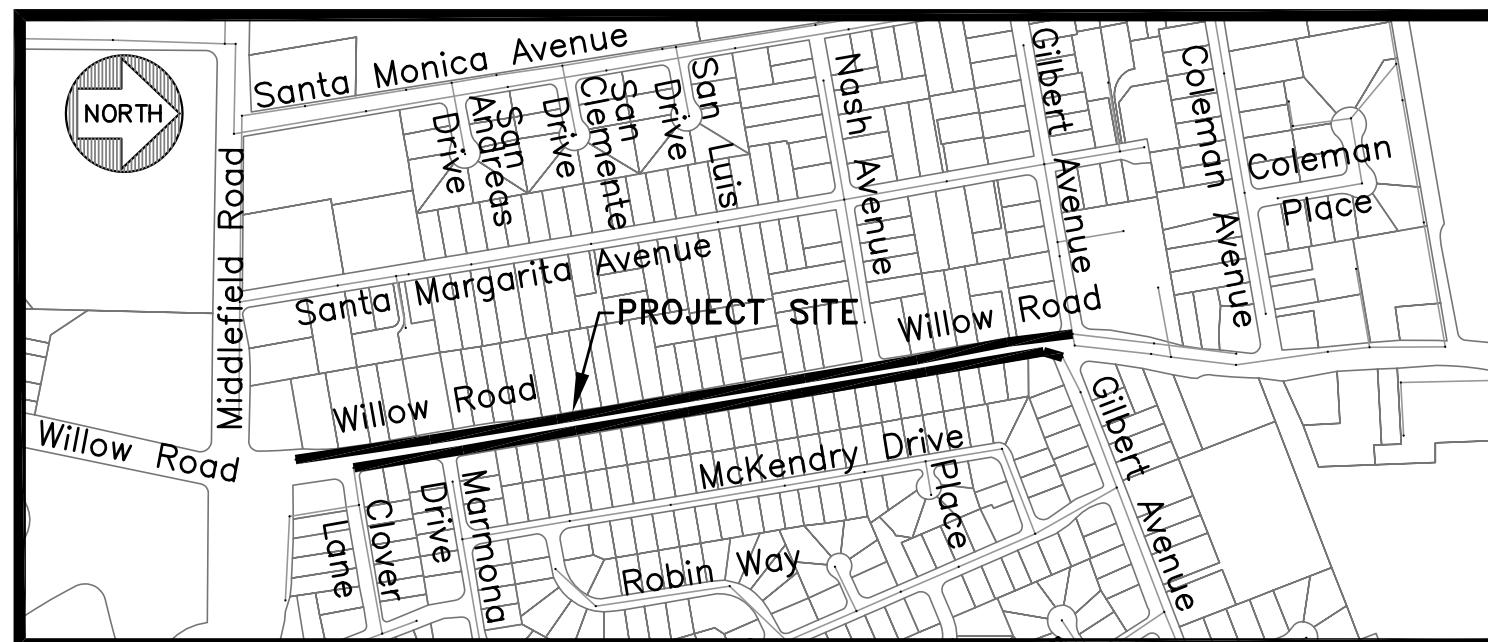
ATHERTON AVE, ATHERTON



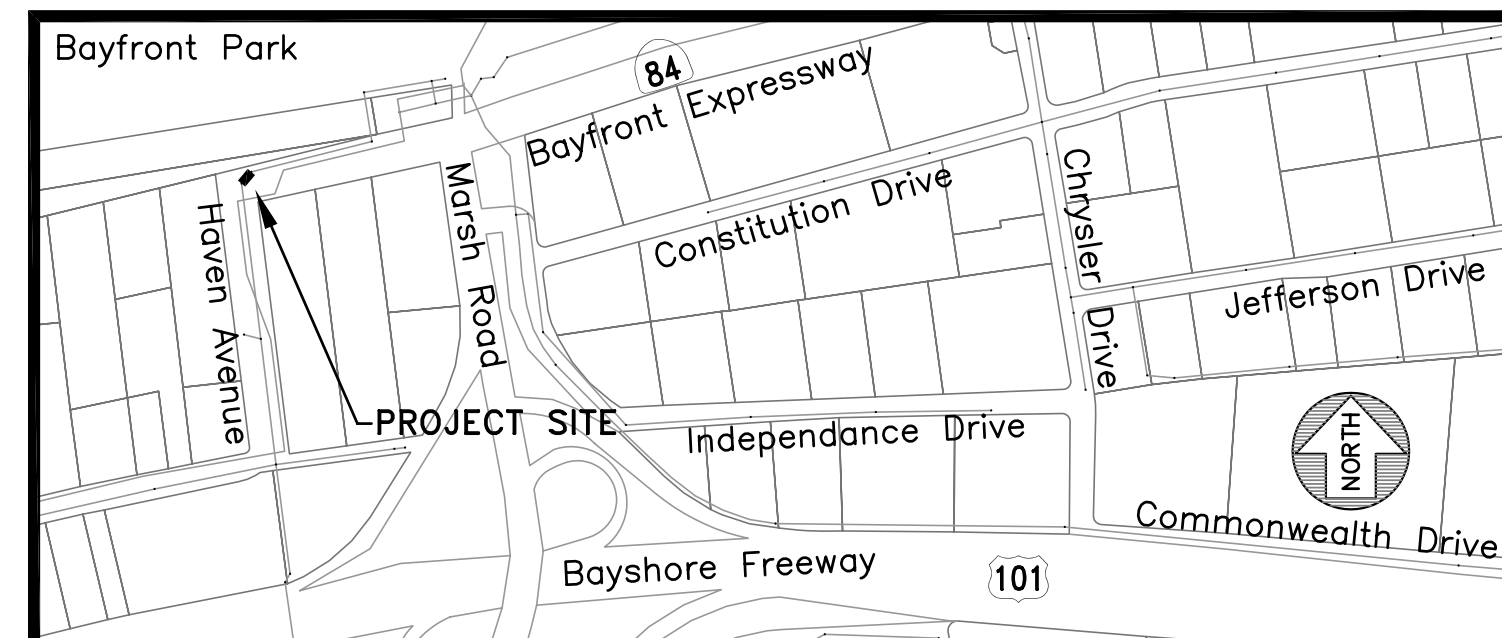
REGIONAL LOCATION NTS



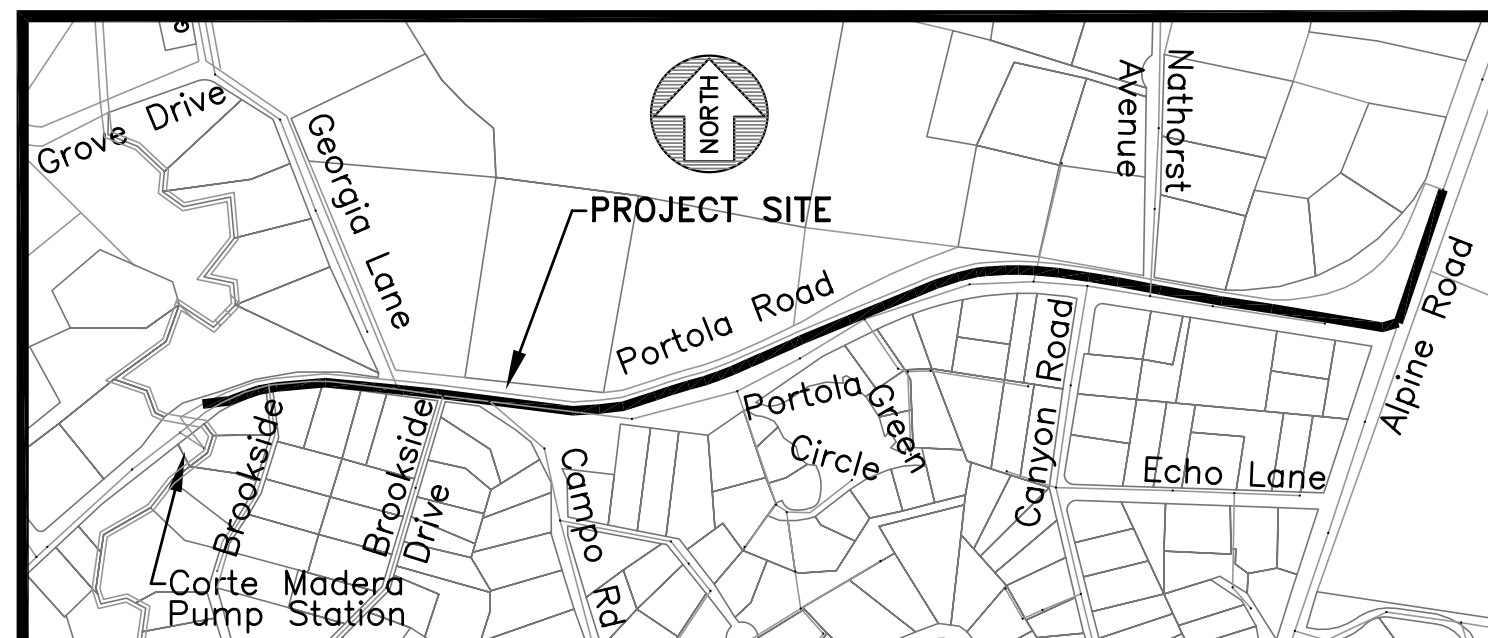
LADERA EASEMENT, UNINCORPORATED SAN MATEO COUNTY



WILLOW ROAD, MENLO PARK



HAVEN AVENUE, MENLO PARK



CORTE MADERA FORCEMAIN, PORTOLA VALLEY

VICINITY LOCATION NTS

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3	PLAN & PROFILE - ATHERTON AVE STA: 5+50 - 11+50	18	PLAN - WILLOW ROAD STA: 11+50 - 17+50
4	PLAN & PROFILE - ATHERTON AVE STA: 11+50 - 17+50	19	PLAN - WILLOW ROAD STA: 17+50 - 20+50
5	PLAN & PROFILE - ATHERTON AVE STA: 17+50 - 23+50	20	PLAN - HAVEN AVE STA: 0+00 - 0+43.80
6	PLAN & PROFILE - ATHERTON AVE STA: 23+50 - 29+50	21	PLAN & PROFILE - CORTE MADERA FORCEMAIN STA: 0+00 - 4+50
7	PLAN & PROFILE - ATHERTON AVE STA: 29+50 - 35+50	22	PLAN & PROFILE - CORTE MADERA FORCEMAIN STA: 4+50 - 10+50
8	PLAN & PROFILE - ATHERTON AVE STA: 35+50 - 36+65.71	23	PLAN & PROFILE - CORTE MADERA FORCEMAIN STA: 10+50 - 16+50
9	PLAN & PROFILE - LADERA EASEMENT STA: 0+00 - 5+25	24	PLAN & PROFILE - CORTE MADERA FORCEMAIN STA: 16+50 - 22+50
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15	PLAN & PROFILE - LADERA EASEMENT STA: 31+50 - 36+83.95		

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SCALE:	AS NOTED		
DESIGNED:	RJL		
DRAWN:	JJF		
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. 1756.7



CAPITAL IMPROVEMENT PROJECT 2010-2011

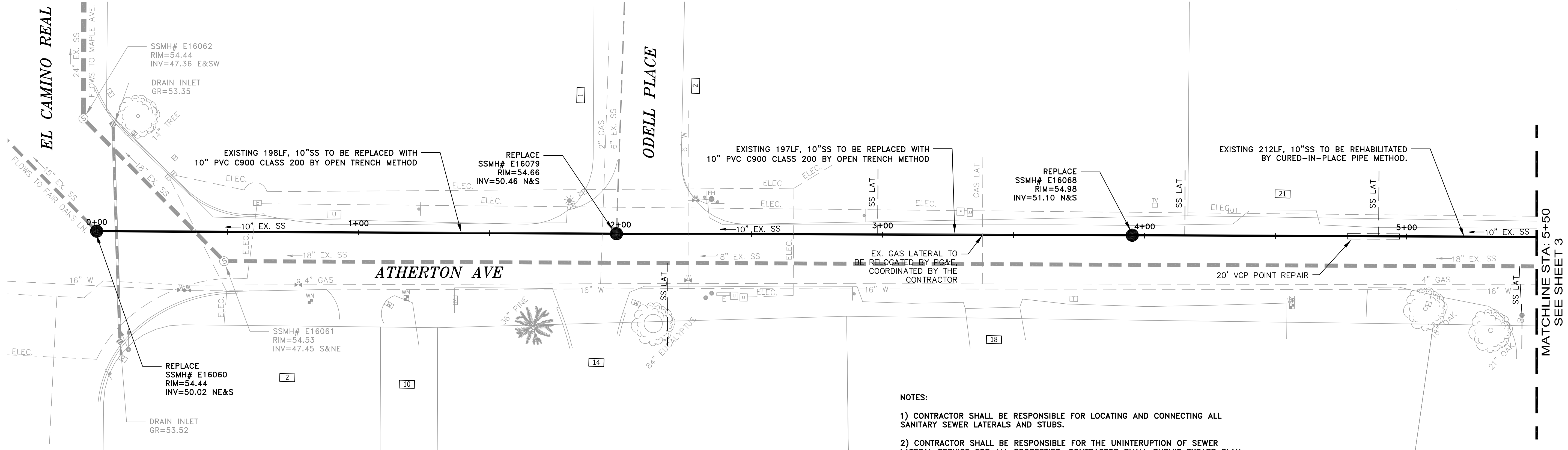
COVER SHEET

SAN MATEO COUNTY, CALIFORNIA

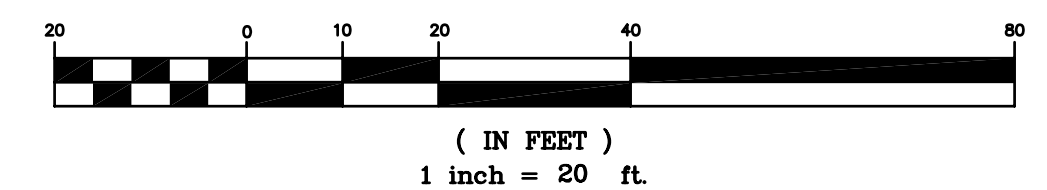
1

JOB NO.

1057

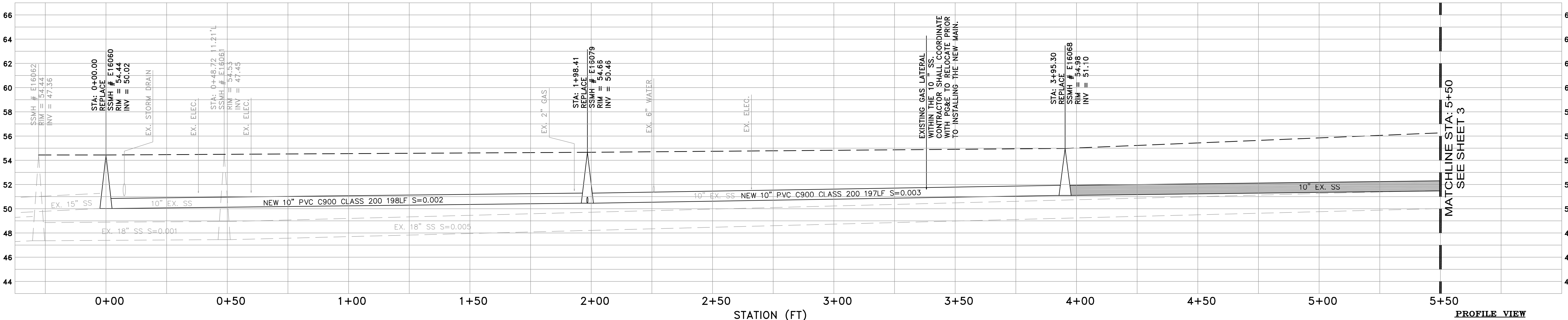


GRAPHIC SCALE



NOTES:

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

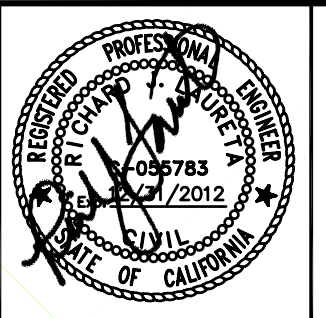
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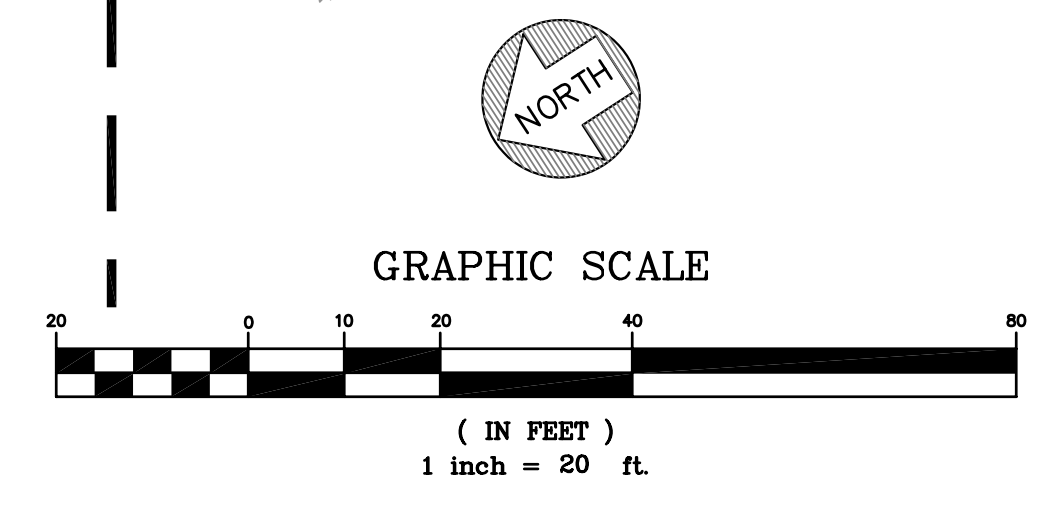
CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
ATHERTON AVE
STA: 0+00 - 5+50
ATHERTON, CALIFORNIA

2

JOB NO.
1057

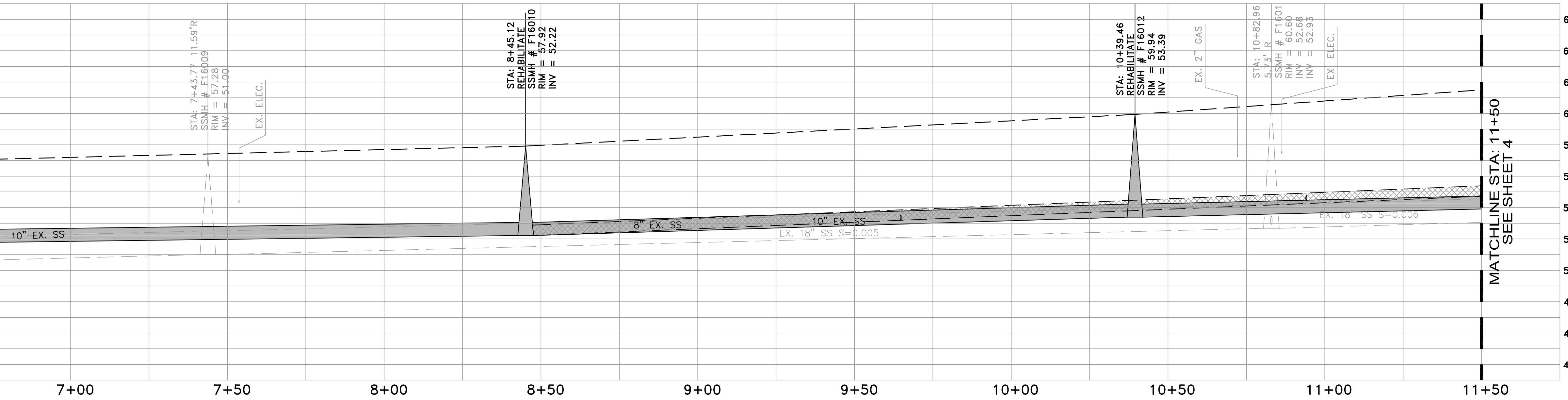
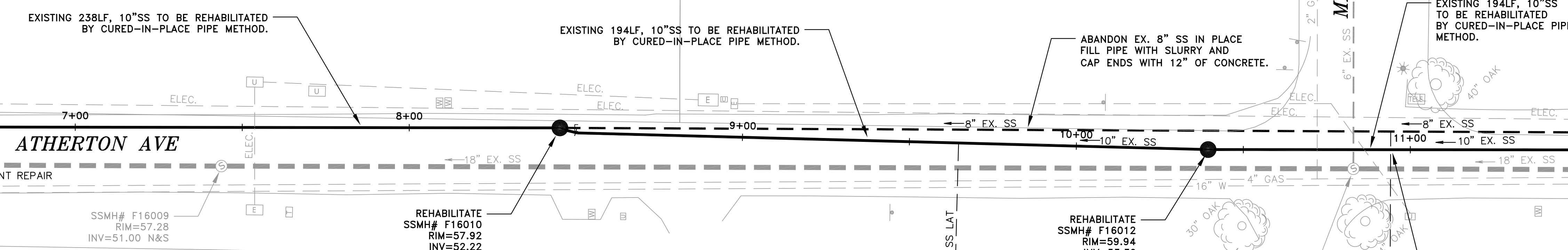
SEE SHEET 2
MATCHLINE STA: 5+50

MATCHLINE STA: 11+50
SEE SHEET 4



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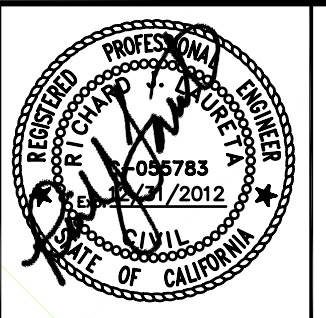
PROFILE VIEW
HORIZ: 1" = 20'
VERT: 1" = 4'

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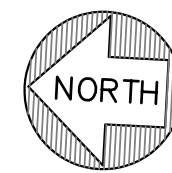
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CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
ATHERTON AVE
STA: 5+50 - 11+50
ATHERTON, CALIFORNIA

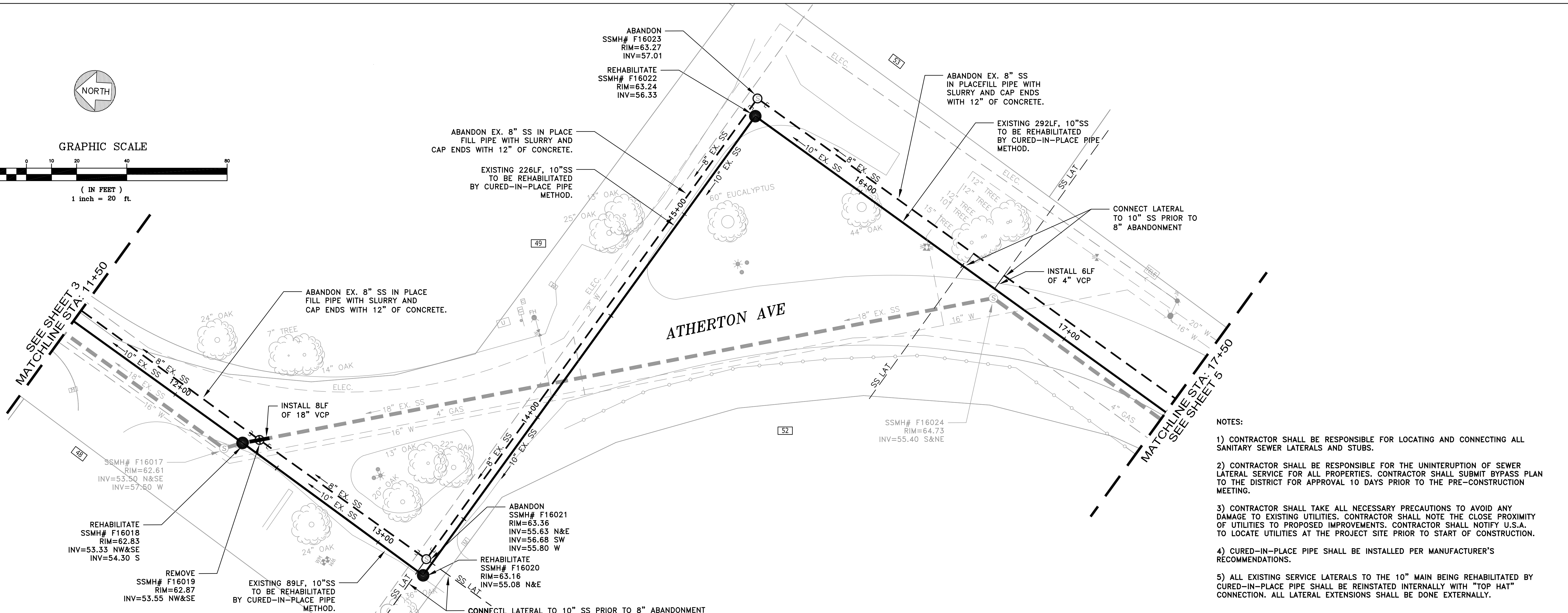
3
JOB No.
1057



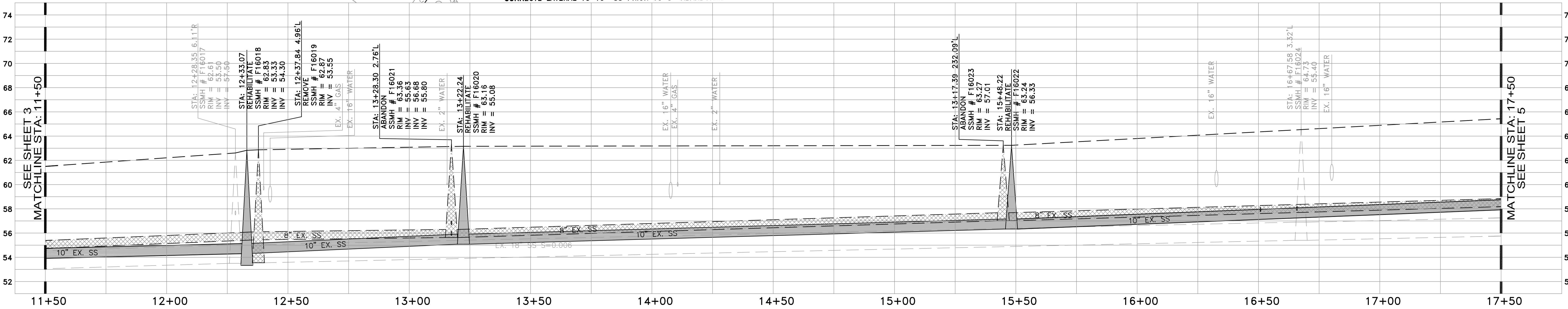
GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.



- NOTES:
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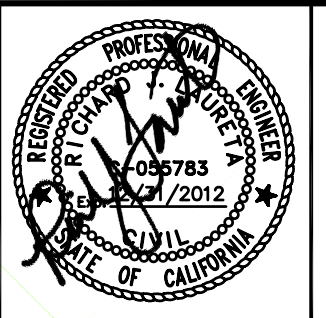
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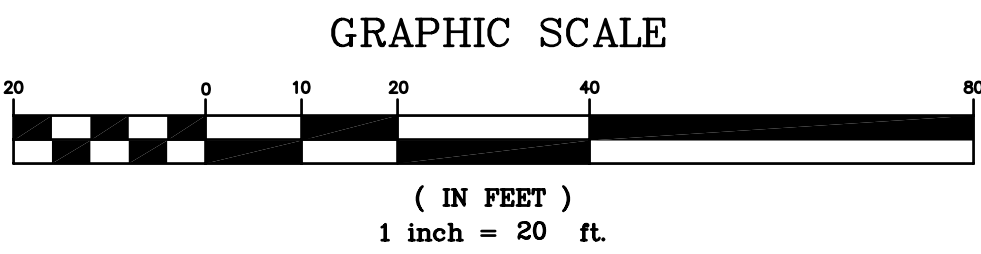
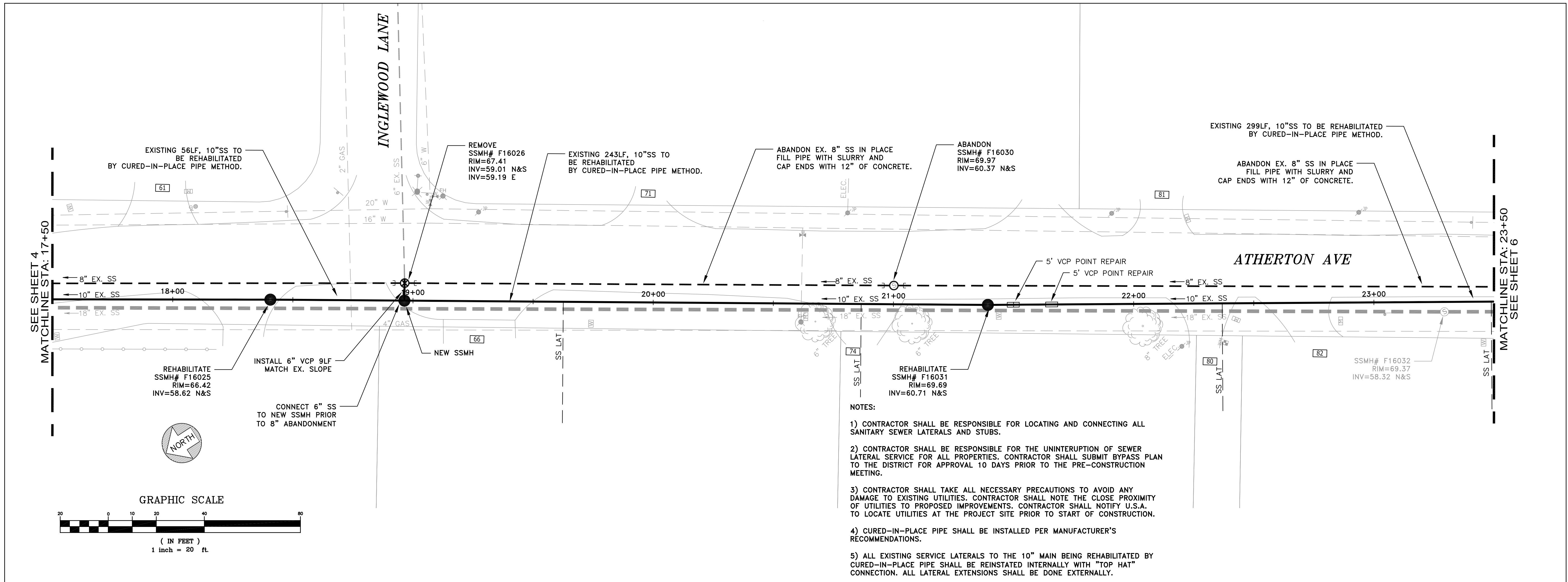
WEST BAY
SANITARY DISTRICT
SAN MATEO COUNTY

PROJECT No. 1756.7

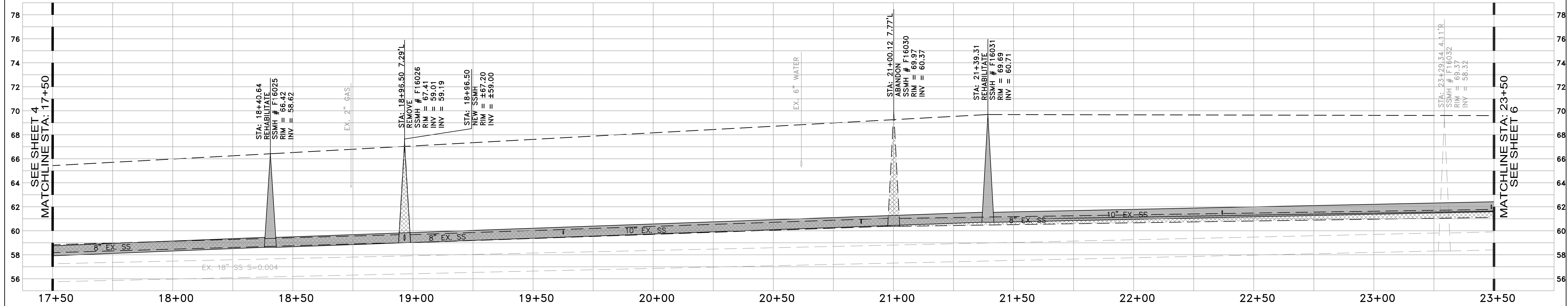


CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
ATHERTON AVE
STA. 11+50 - 17+50
ATHERTON, CALIFORNIA

4
JOB No.
1057



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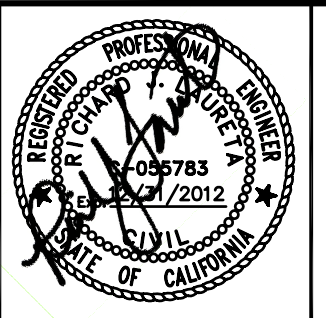
PROFILE VIEW
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CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

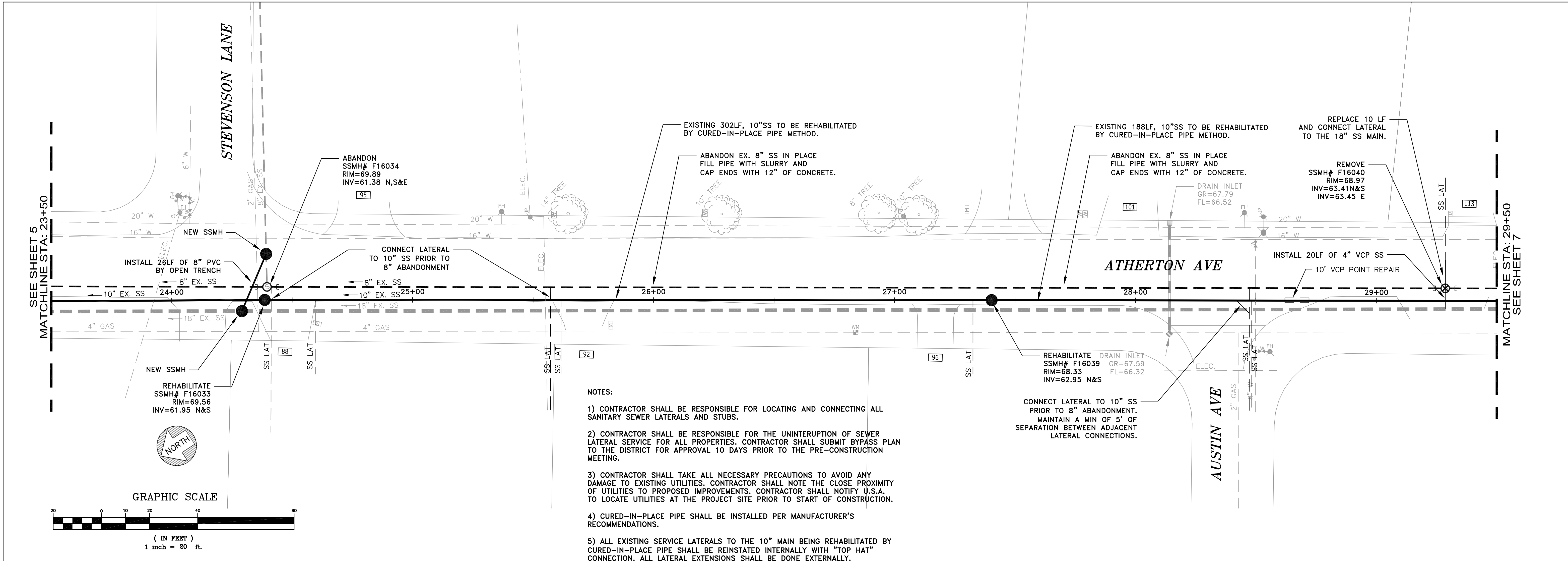
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PROJECT No. 1756.7

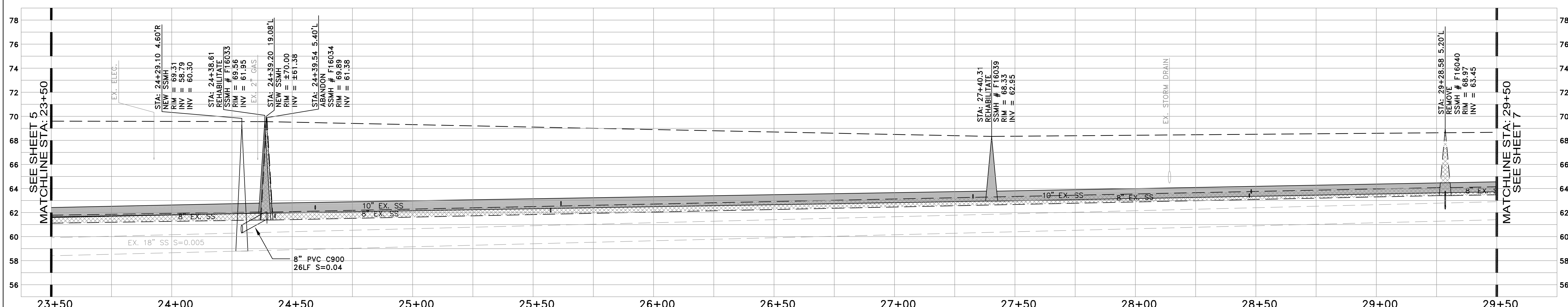
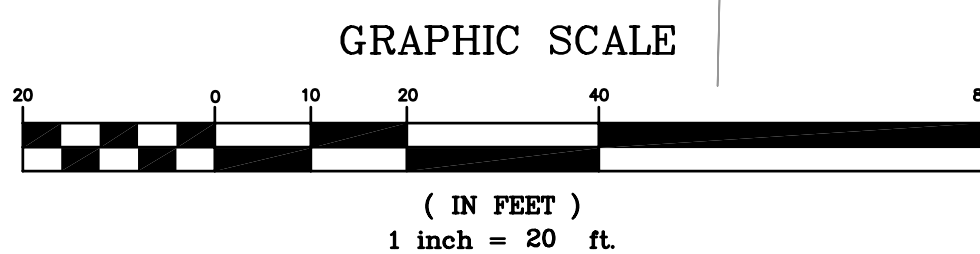


CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
ATHERTON AVE
STA. 17+50 - 23+50
ATHERTON, CALIFORNIA

5
JOB NO.
1057



- 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 LATERAL SERVICE FOR ALL PROPERTIES. CONTRACTOR SHALL SUBMIT BYPASS PLAN TO THE DISTRICT FOR APPROVAL 10 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
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 - 4) CURED-IN-PLACE PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 - 5) ALL EXISTING SERVICE LATERALS TO THE 10" MAIN BEING REHABILITATED BY CURED-IN-PLACE PIPE SHALL BE REINSTATED INTERNALLY WITH "TOP HAT" CONNECTION. ALL LATERAL EXTENSIONS SHALL BE DONE EXTERNALLY.



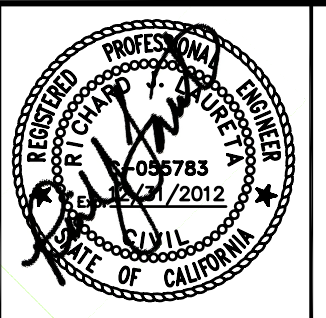
PROFILE VIEW
 HORIZ: 1" = 20'
 VERT: 1" = 4'

DATE:	04/06/11	04/06/11	ISSUED FOR BID
SCALE:	AS NOTED		
DESIGNED:	RJL		
DRAWN:	JJF		
CHECKED:	RJL		
PROJ. ENGR:	RJL		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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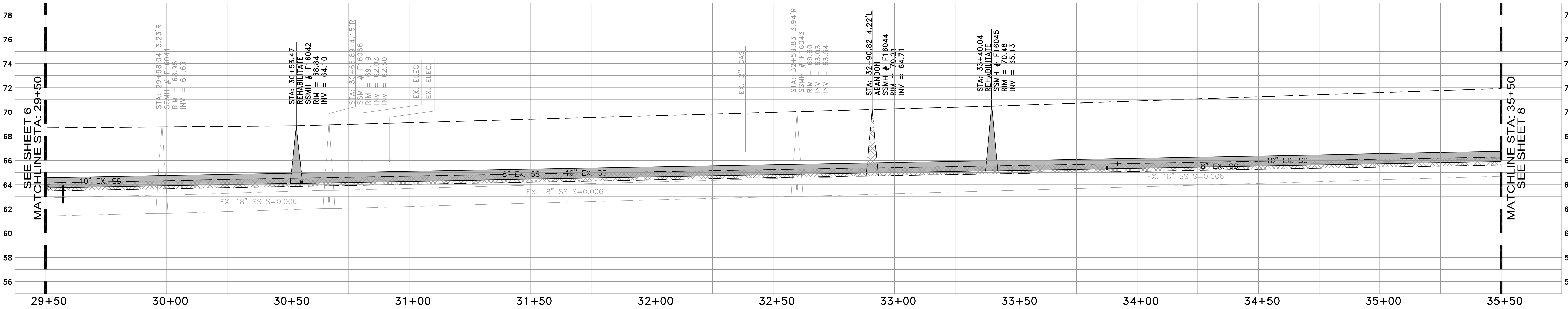
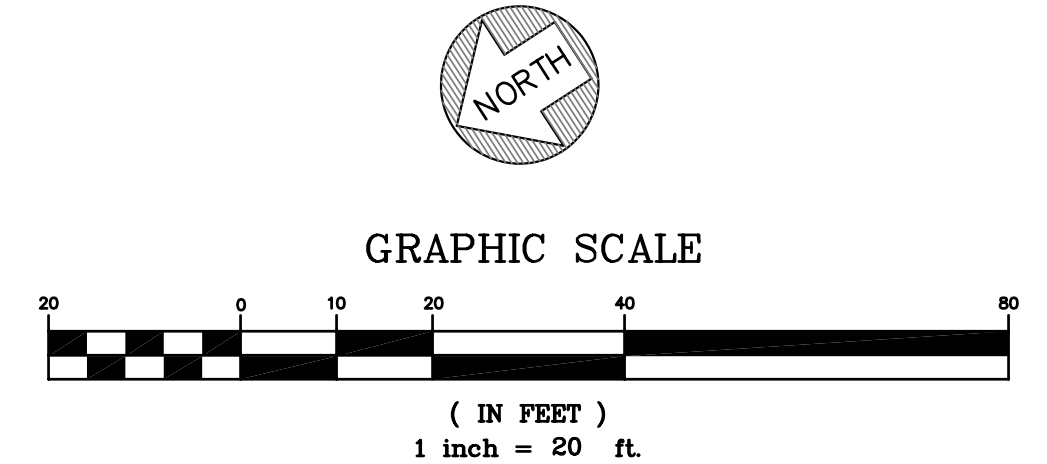
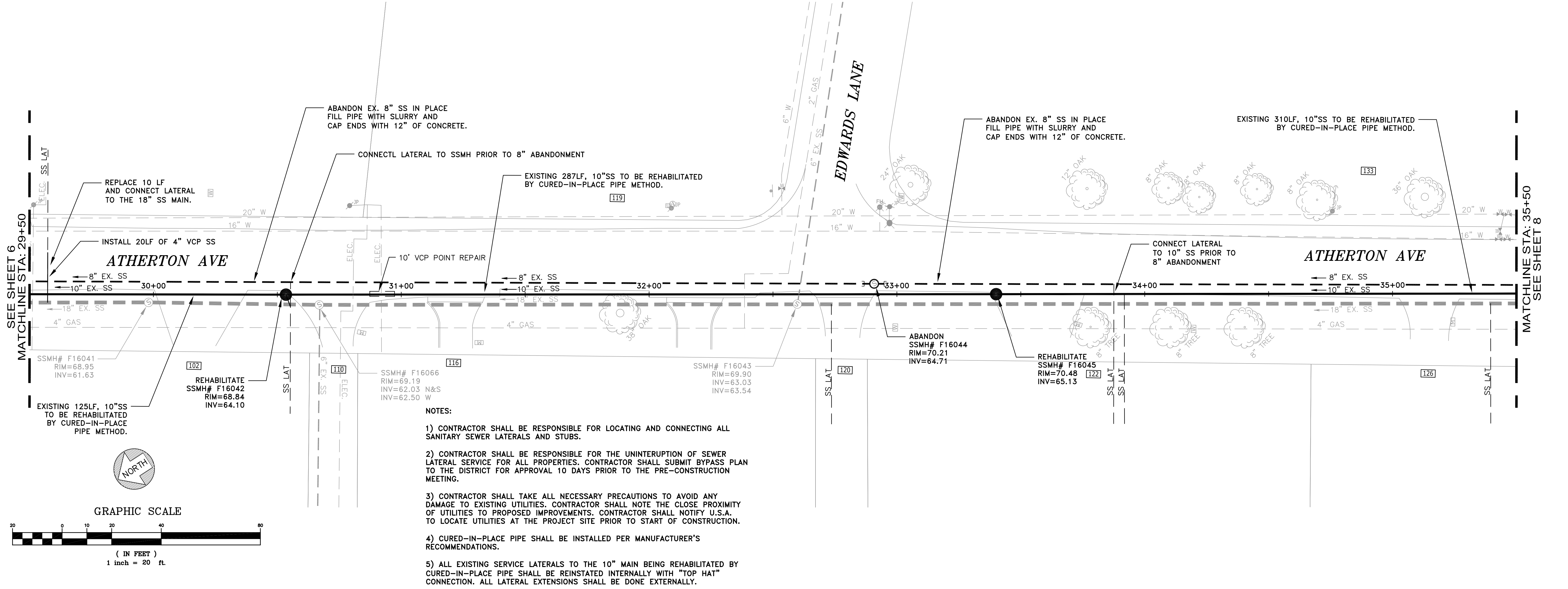
WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY
 PROJECT No. 1756.7



CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
ATHERTON AVE
STA: 23+50 - 29+50
ATHERTON, CALIFORNIA

6
 JOB NO.
 1057

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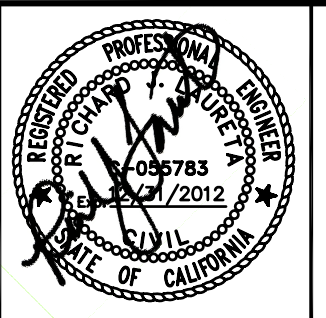
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SCALE:	AS NOTED		
DESIGNED:	RJL		
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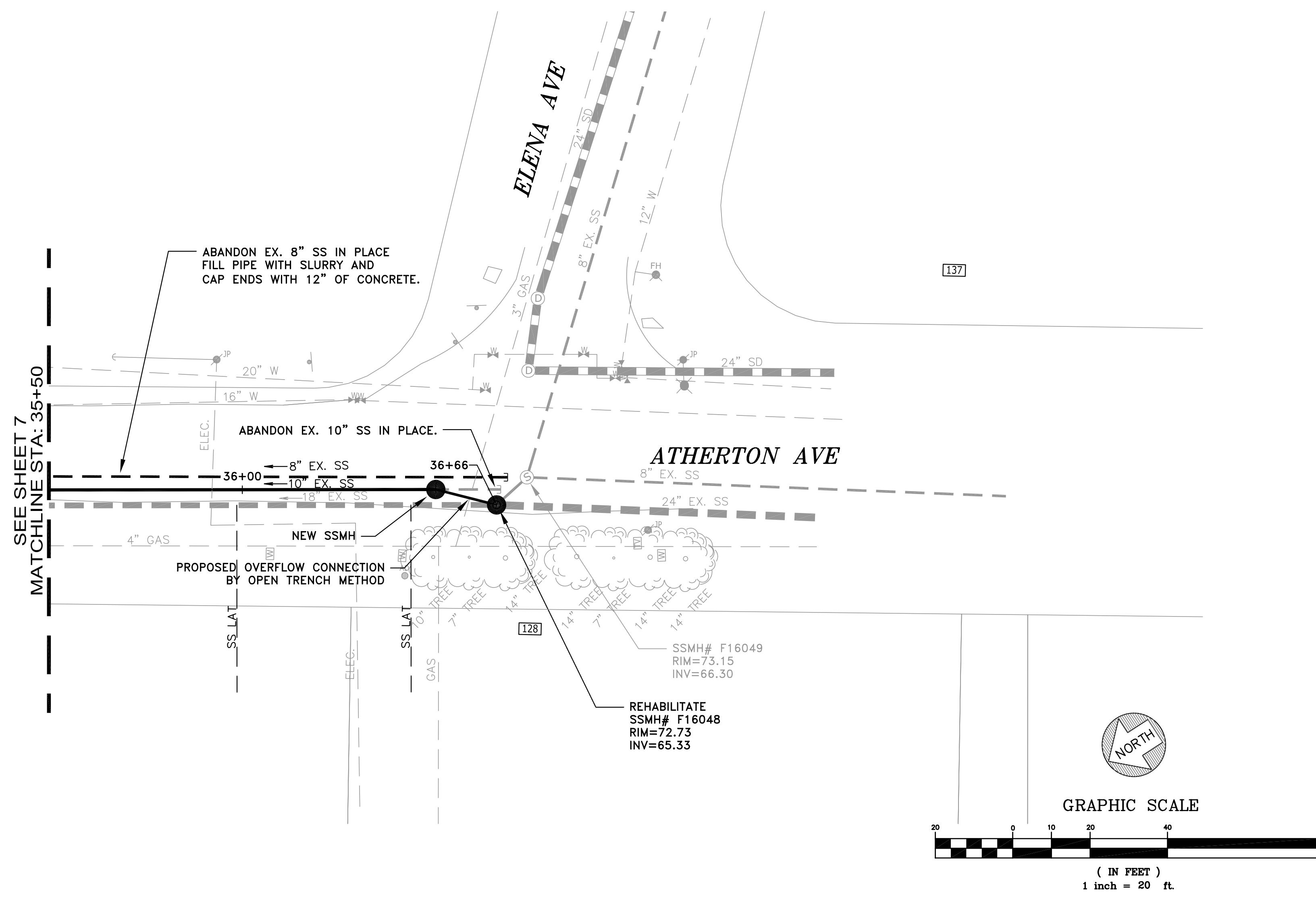
WEST BAY
SANITARY DISTRICT
SAN MATEO COUNTY

PROJECT No. 1756.7

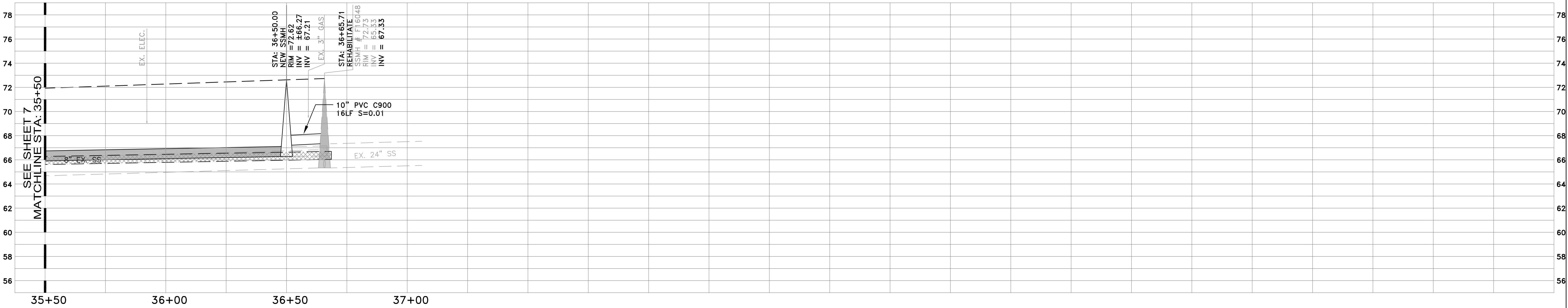
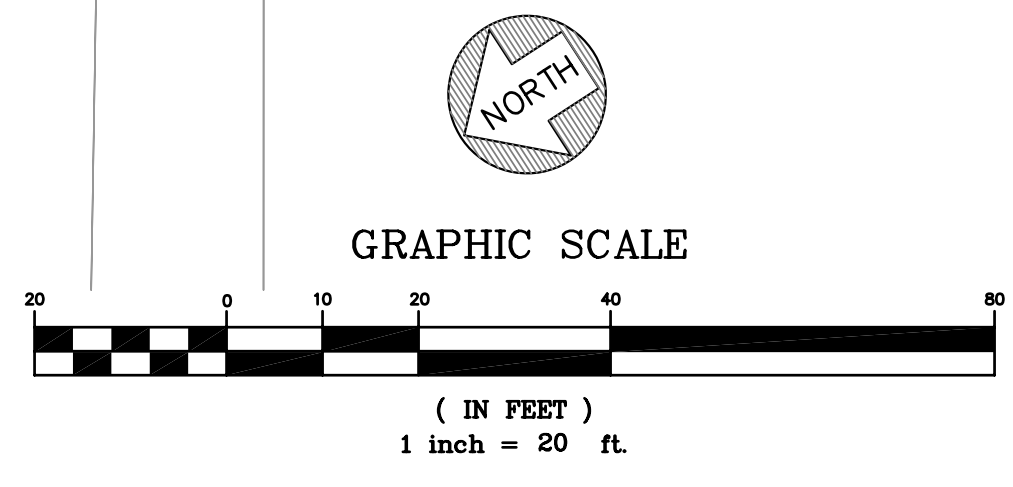


CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
ATHERTON AVE
STA. 29+50 - 35+50
ATHERTON, CALIFORNIA

7
JOB No.
1057



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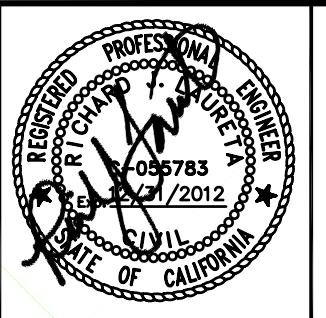
PROFILE VIEW
 HORIZ: 1" = 20'
 VERT: 1" = 4'

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 SAN MATEO COUNTY
 PROJECT No. 1756.7



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STA: 35+50 - 36+65.71
ATHERTON, CALIFORNIA

8
 JOB NO.
1057

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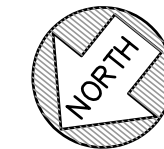


10' SS EASEMENT

EX. 12" SS

INSTALL NEW CONCRETE PLATFORM & REHABILITATE
SSMH# J12011
RIM=186.03
INV=177.77

WEBB RANCH



GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

INSTALL NEW CONCRETE PLATFORM & REHABILITATE
SSMH# J12012
RIM=189.21
INV=179.90

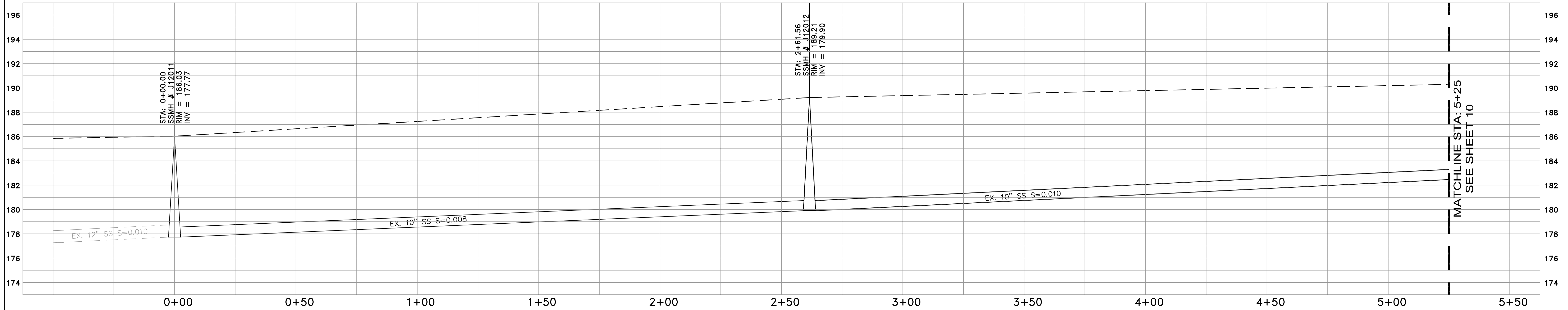
EXISTING 262LF, 10"SS TO BE REHABILITATED BY CURED-IN-PLACE PIPE METHOD.

EXISTING 290LF, 10"SS TO BE REHABILITATED BY CURED-IN-PLACE PIPE METHOD.

NOTES:

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SEE SHEET 10
MATCHLINE STA: 5+25



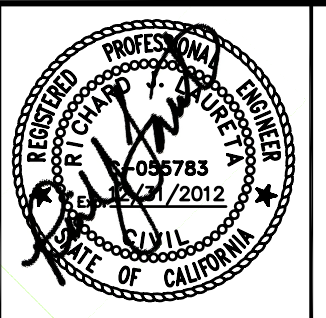
PROFILE VIEW
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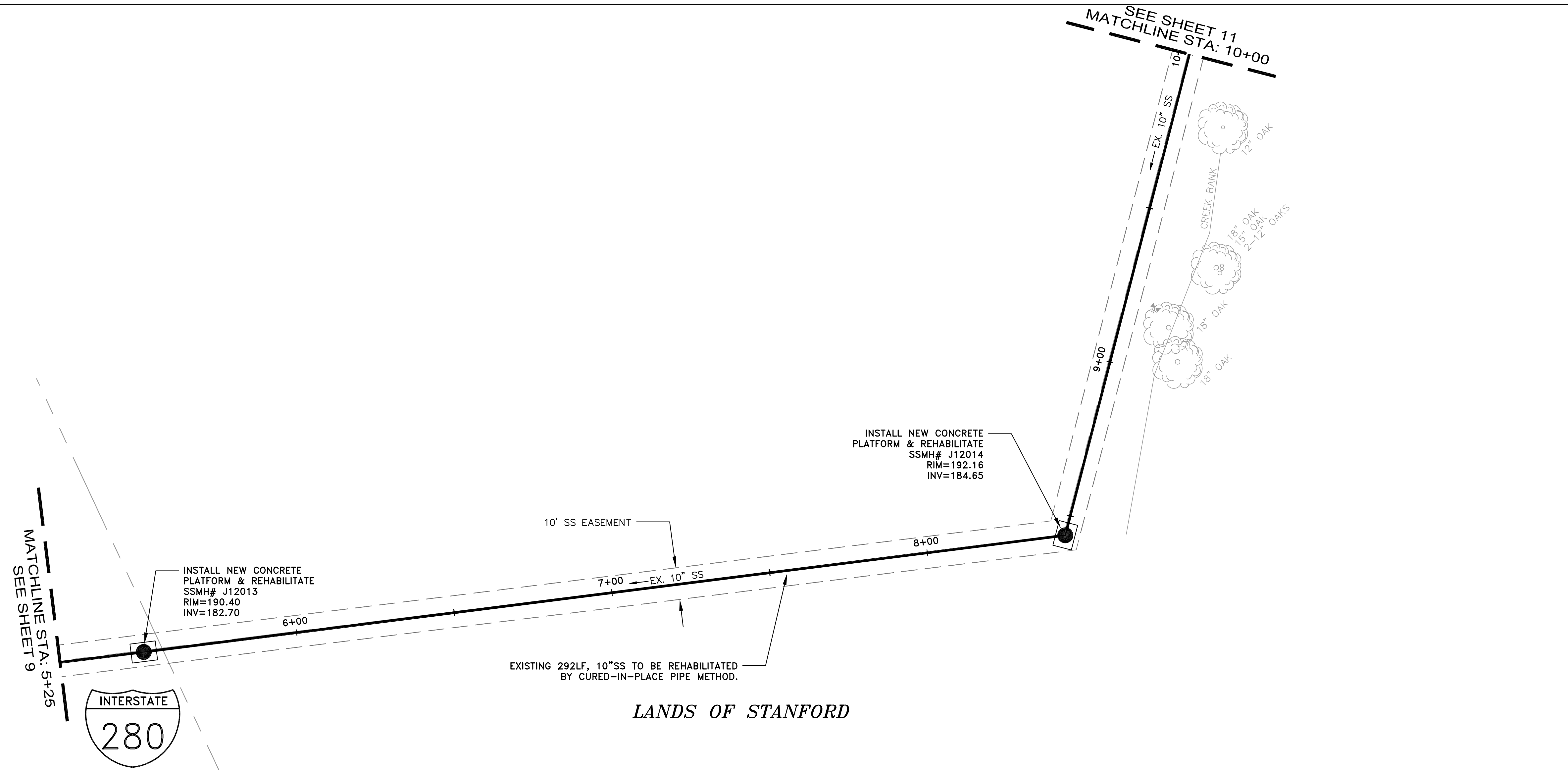
WEST BAY
SANITARY DISTRICT
SAN MATEO COUNTY
PROJECT No. 1756.7



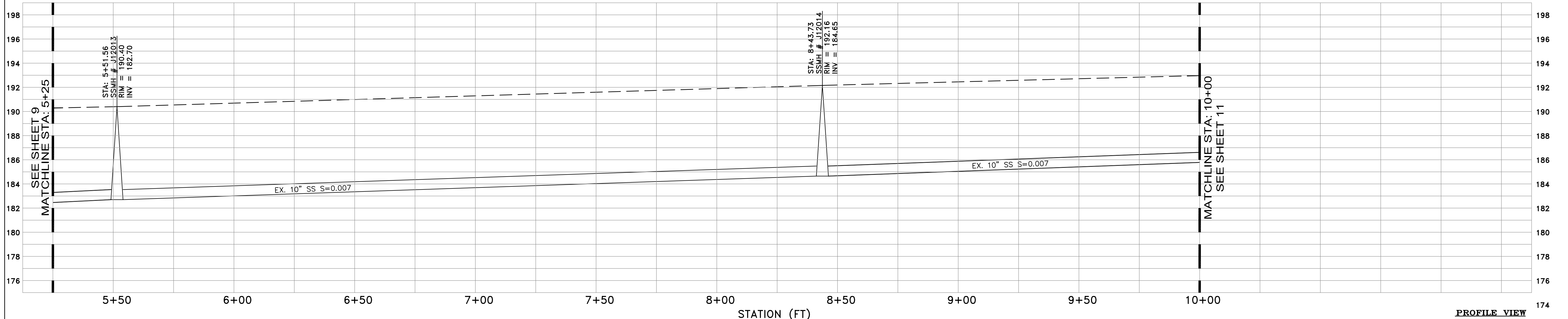
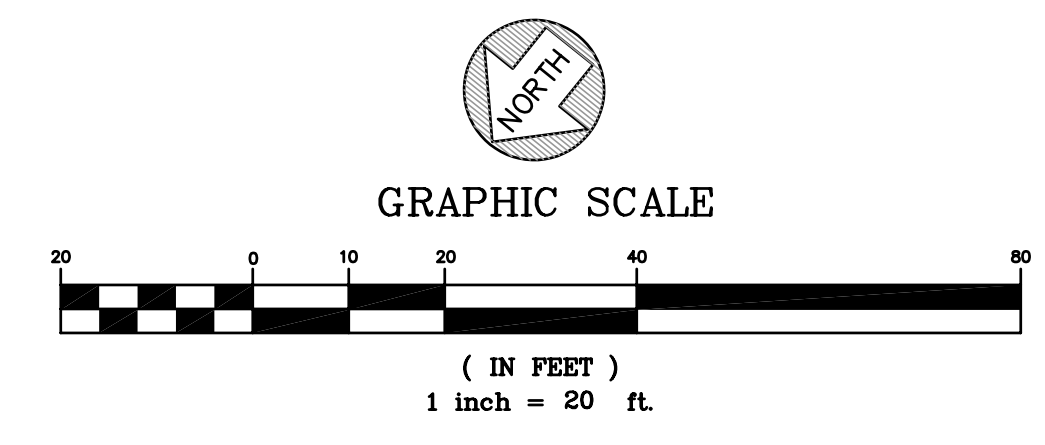
CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
LADERA EASEMENT
STA: 0+00 - 5+25
MENLO PARK, CALIFORNIA

9
JOB NO.
1057

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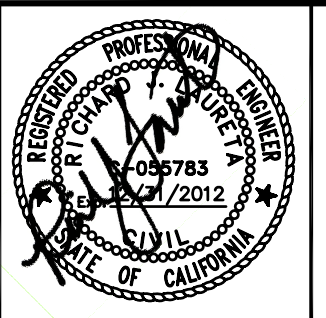
PROFILE VIEW
 HORIZ: 1" = 20'
 VERT: 1" = 4'

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BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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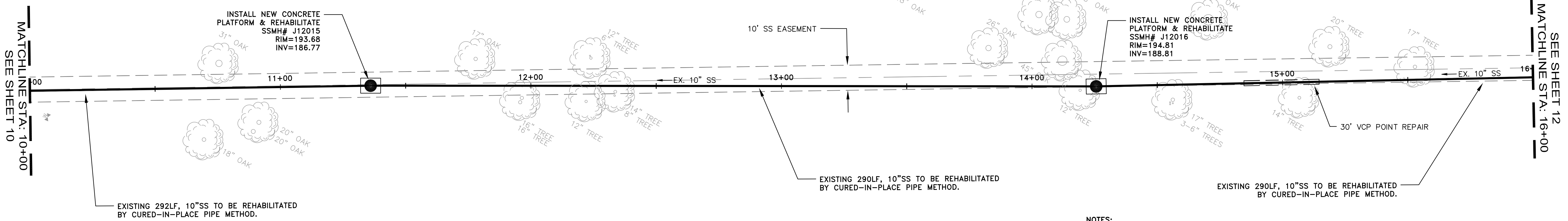
WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY
 PROJECT No. 1756.7



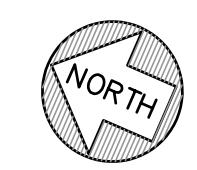
CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
LADERA EASEMENT
STA: 5+25 - 10+00
MENLO PARK, CALIFORNIA

10
 JOB NO.
 1057

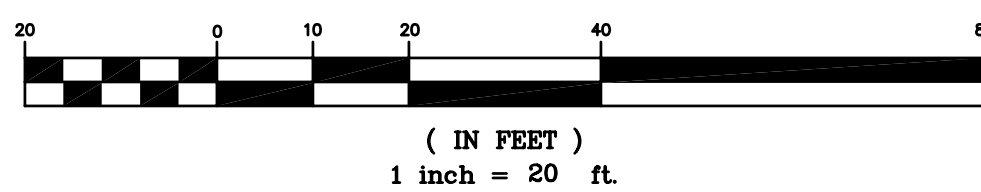
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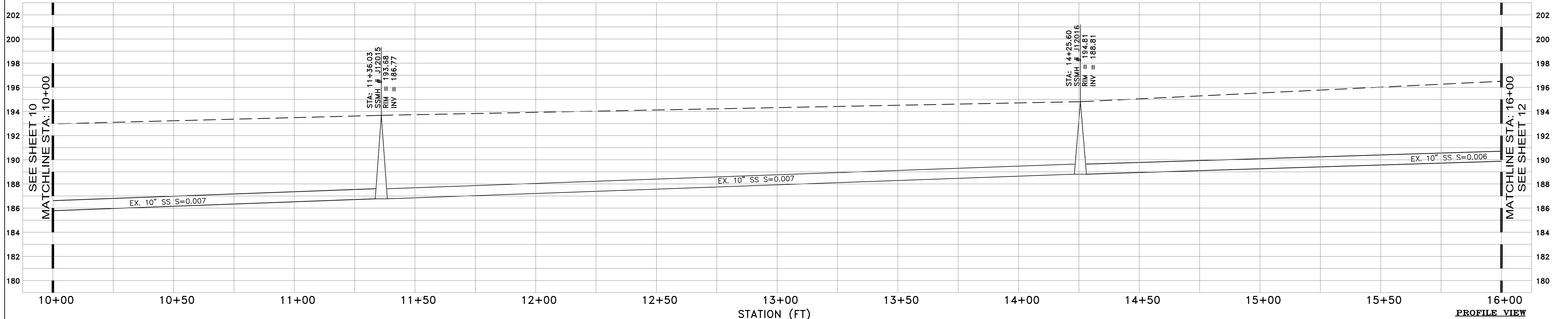
LANDS OF STANFORD



GRAPHIC SCALE



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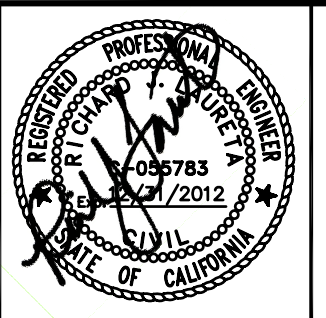
PROFILE VIEW
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VERT: 1" = 4'

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BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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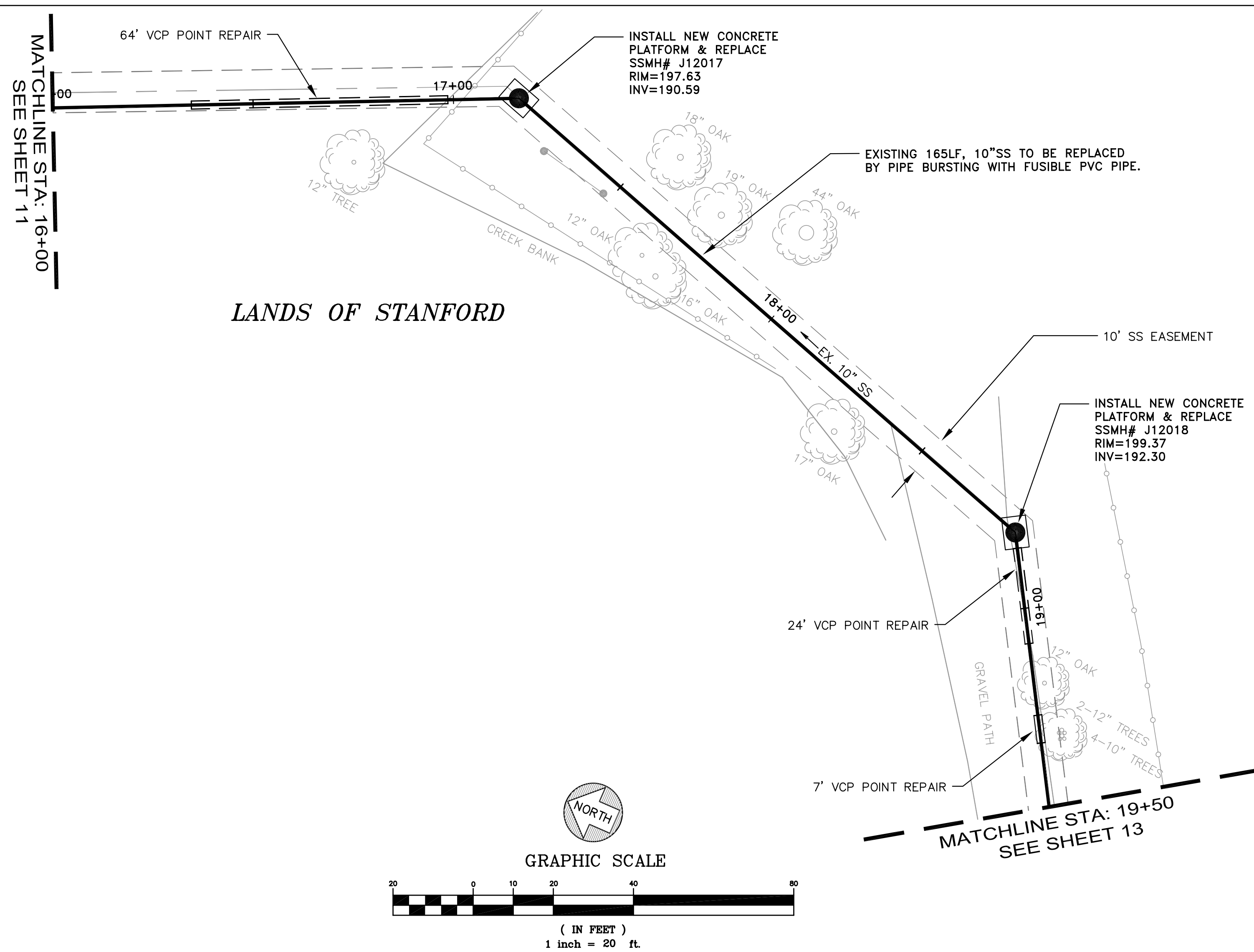
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WEST BAY
SANITARY DISTRICT
SAN MATEO COUNTY
PROJECT No. 1756.7

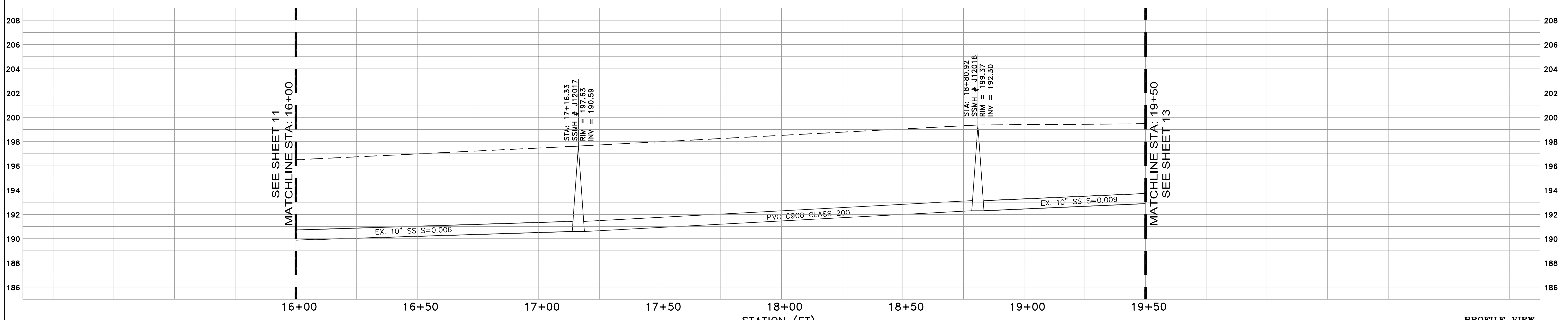
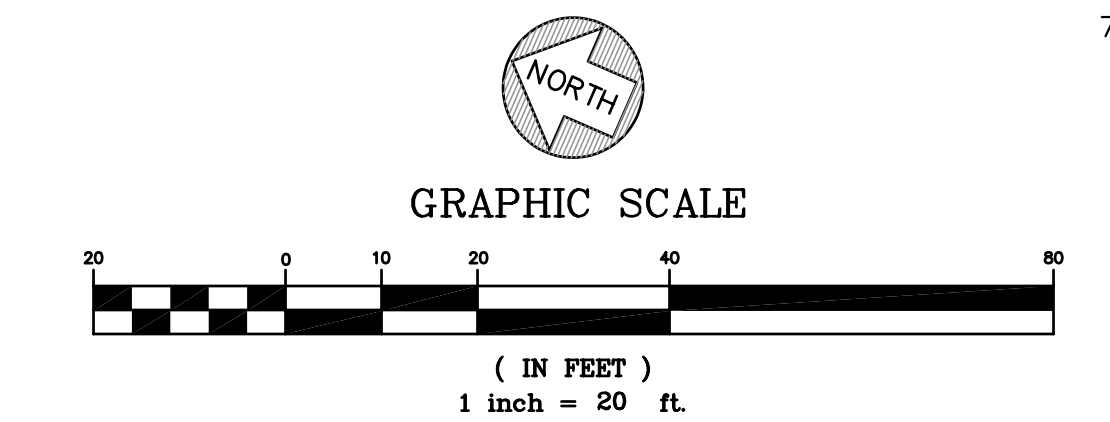


CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
LADERA EASEMENT
STA. 10+00 - 16+00
MENLO PARK, CALIFORNIA

11
JOB No.
1057



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PROFILE VIEW
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 VERT: 1" = 4'

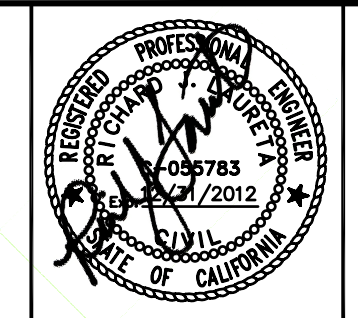
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PROJECT No. 1756.7



CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
LADERA EASEMENT
STA. 16+00 - 19+50
MENLO PARK, CALIFORNIA

12
 JOB NO.
 1057

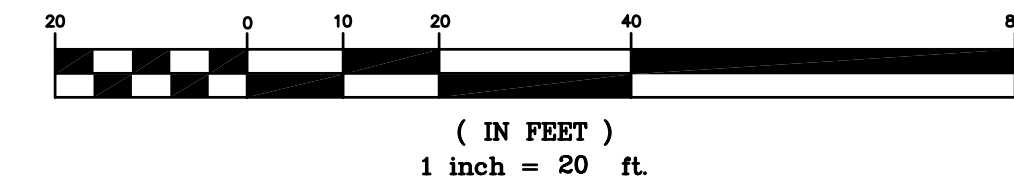
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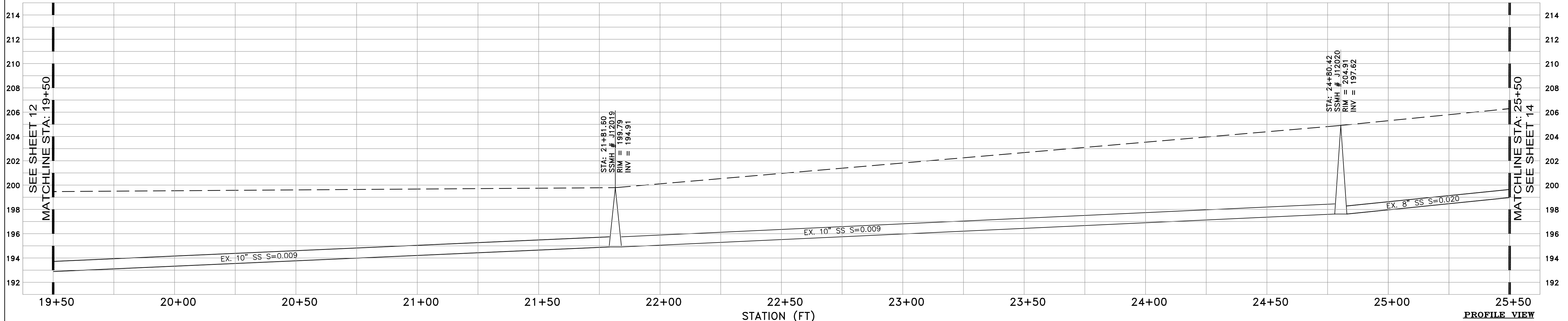
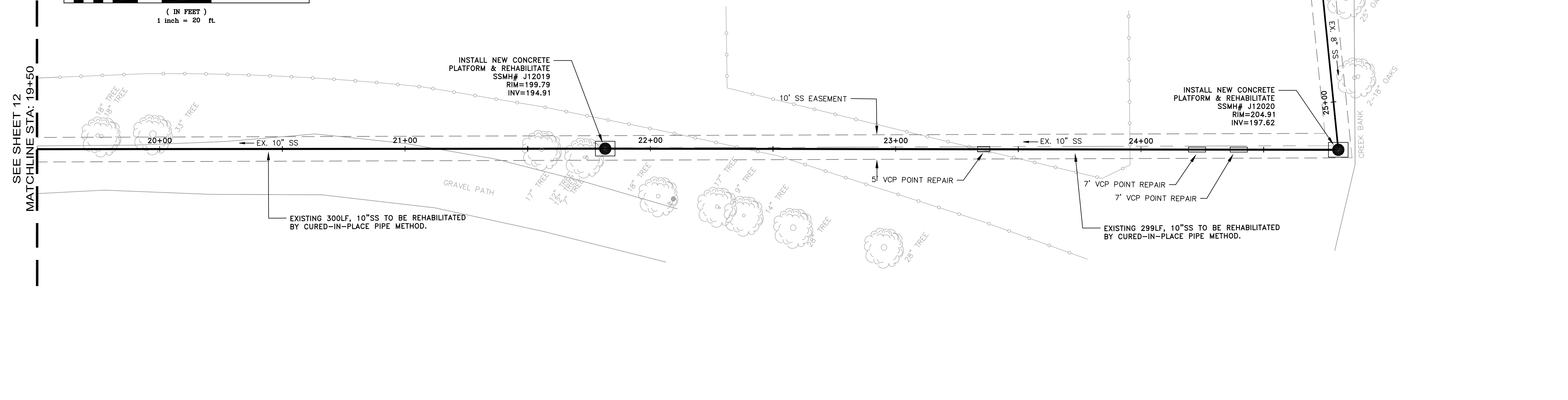
GRAPHIC SCALE



LANDS OF STANFORD

SEE SHEET 12
MATCHLINE STA: 19+50

SEE SHEET 14
MATCHLINE STA: 25+50



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WEST BAY
SANITARY DISTRICT
SAN MATEO COUNTY
PROJECT No. 1756.7



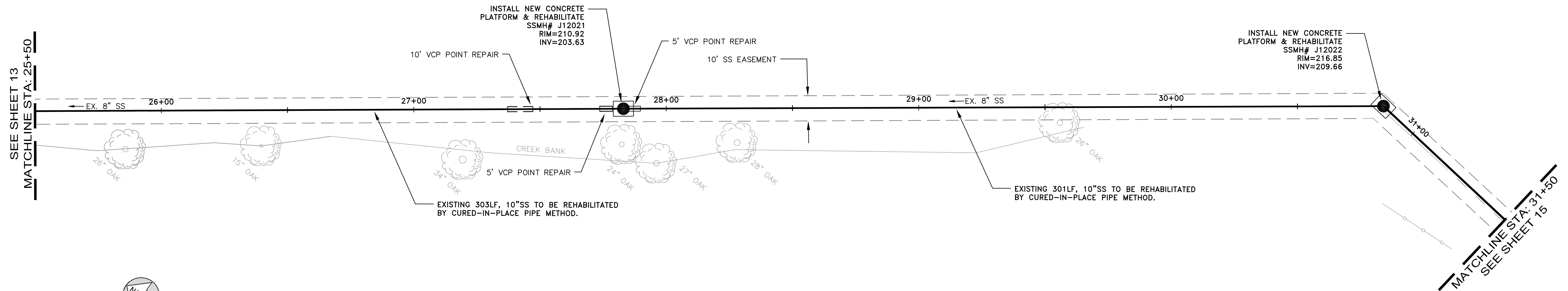
CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
LADERA EASEMENT
STA. 19+50 - 25+50
MENLO PARK, CALIFORNIA

13
JOB No.
1057

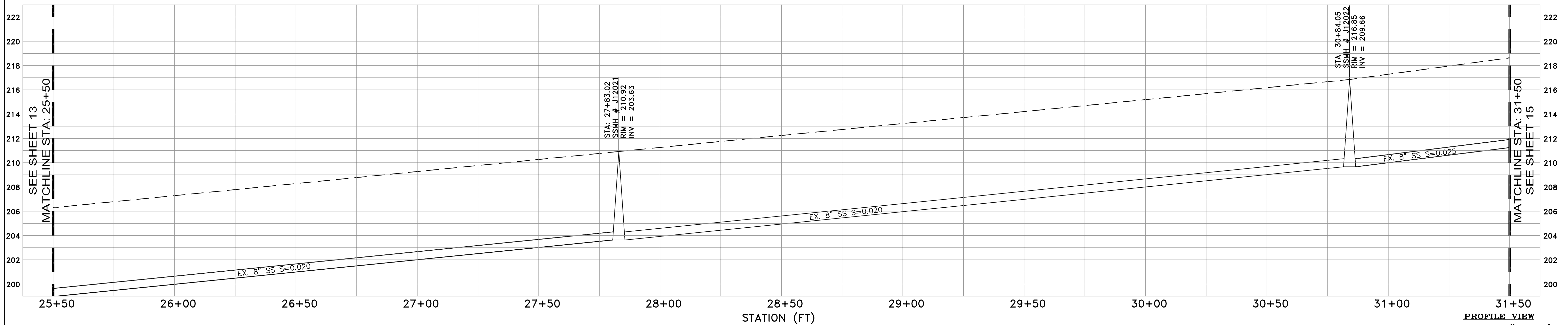
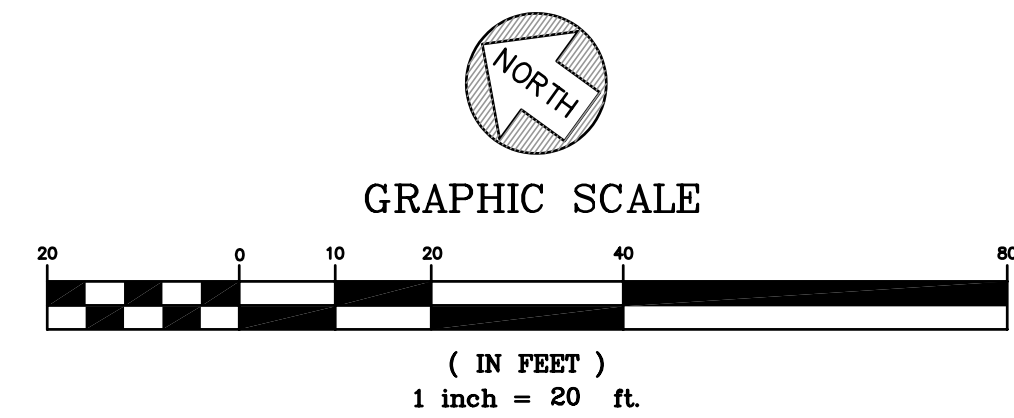
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LANDS OF STANFORD



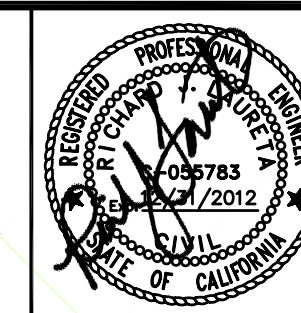
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SCALE:	AS NOTED		
DESIGNED:	RJL		
DRAWN:	JJF		
CHECKED:	RJL		
PROJ. ENGR:	RJL		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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WEST BAY
SANITARY DISTRICT
SAN MATEO COUNTY

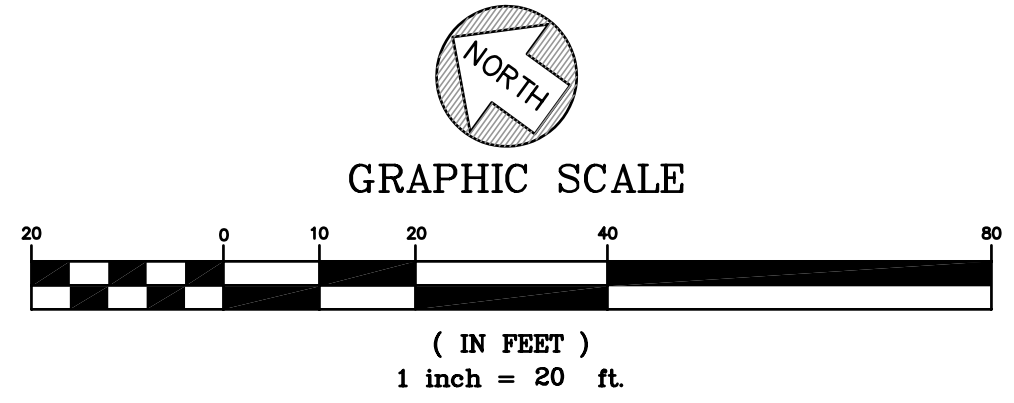
PROJECT No. 1756.7



CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
LADERA EASEMENT
STA. 25+50 - 31+50
MENLO PARK, CALIFORNIA

14
JOB NO.
1057

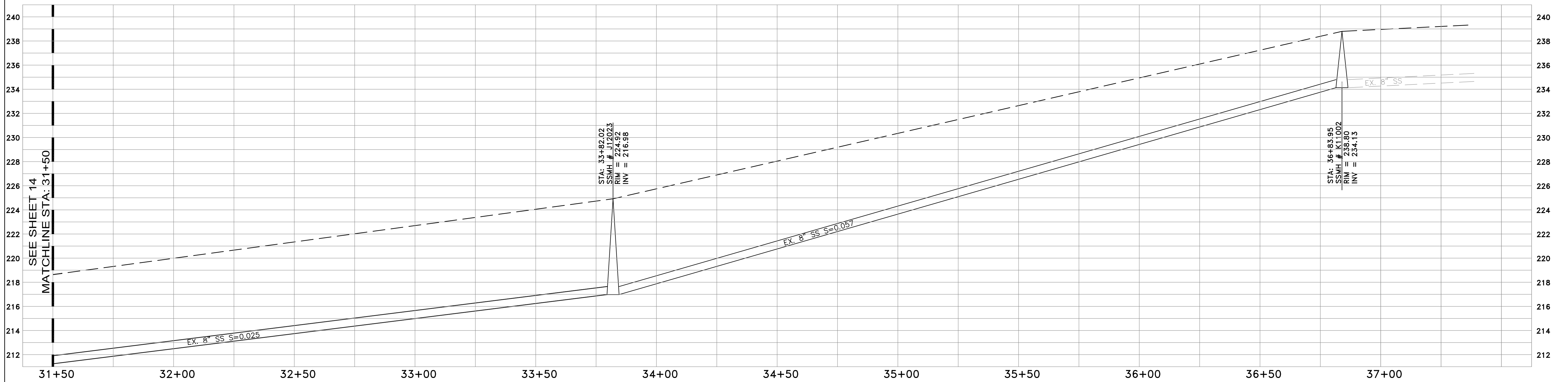
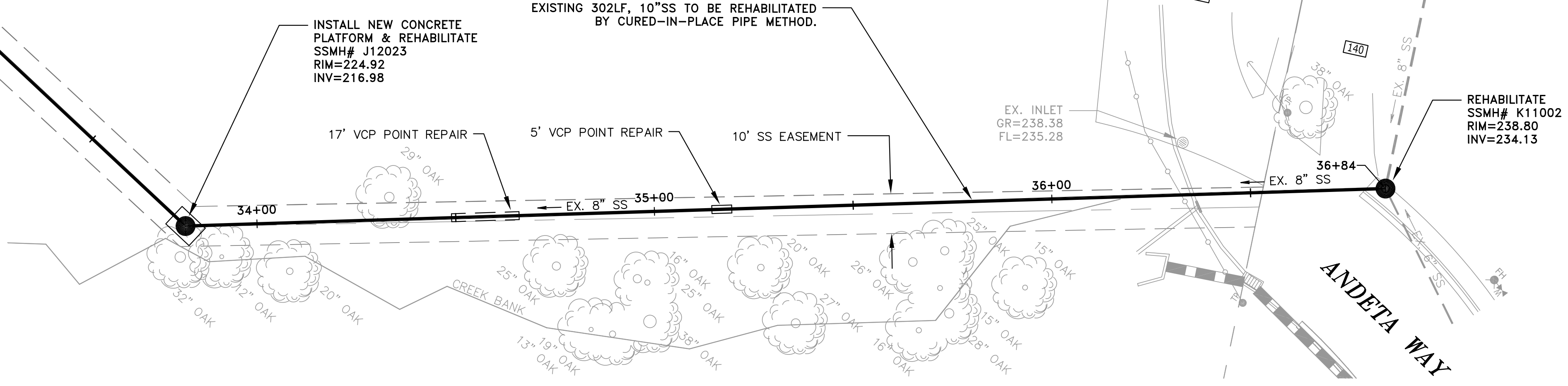
SEE SHEET 14
MATCHLINE STA: 31+50



- NOTES:
- 1) 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.
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 - 3) CURED-IN-PLACE PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 - 4) AT THE END OF WORK DAY, OPEN EXCAVATIONS WITHIN THE LADERA EASEMENT SHALL BE STEEL PLATED (PINNED DOWN) WITH PLYWOOD PLACED OVER THE ENTIRE STEEL PLATE.
 - 5) CONTRACTOR SHALL PLACE WARNING SIGNS AND ORANGE CONSTRUCTION FENCING TO PROTECT WEBB RANCH VISITORS FROM CONSTRUCTION ACTIVITIES, AS REQUESTED BY WEBB RANCH AND THE DISTRICT DURING CONSTRUCTION.

EXISTING 298LF, 10"SS TO BE REHABILITATED BY CURED-IN-PLACE PIPE METHOD.

LANDS OF STANFORD



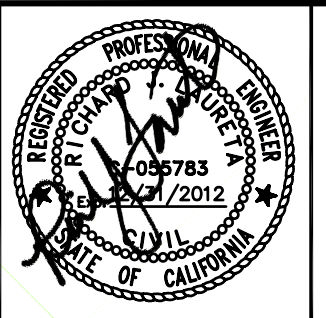
PROFILE VIEW
HORIZ: 1" = 20'
VERT: 1" = 4'

DATE:	04/06/11	04/06/11	ISSUED FOR BID
SCALE:	AS NOTED		
DESIGNED:	RJL		
DRAWN:	JJF		
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. 1756.7



CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
LADERA EASEMENT
STA: 31+50 - 36+83.95
MENLO PARK, CALIFORNIA

15
JOB NO.
1057



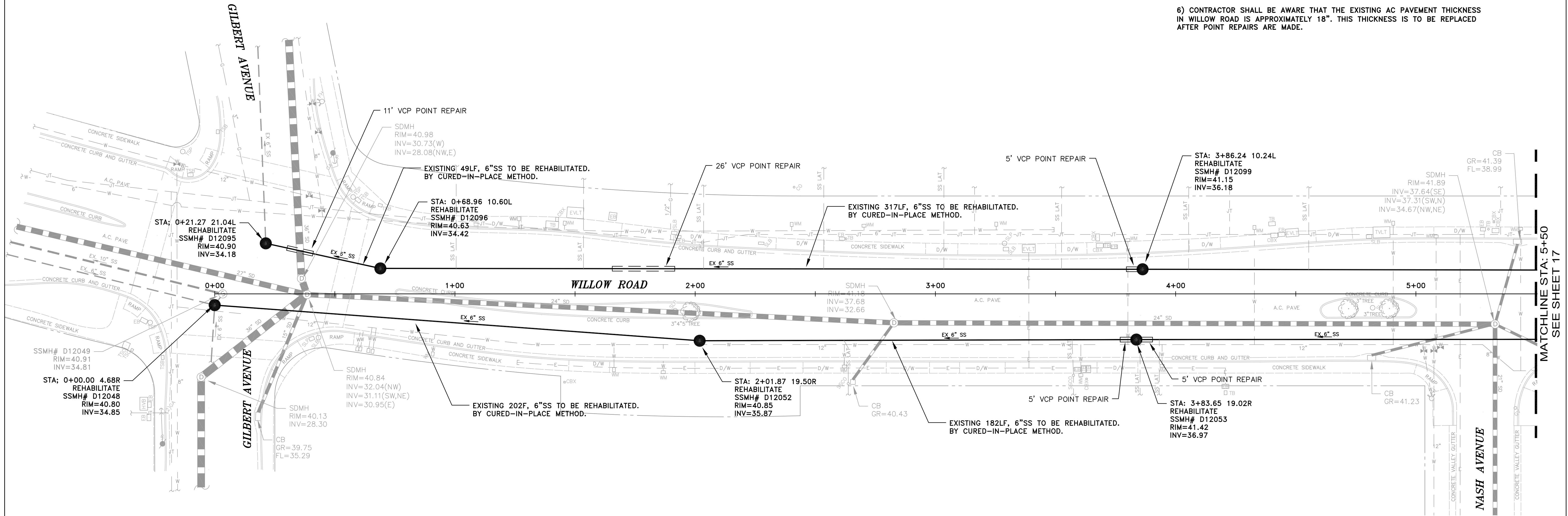
GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

NOTES:

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- 5) ALL EXISTING SERVICE LATERALS TO THE 6" MAIN BEING REHABILITATED BY CURED-IN-PLACE PIPE SHALL BE REINSTATED INTERNALLY WITH "TOP HAT" CONNECTION.
- 6) CONTRACTOR SHALL BE AWARE THAT THE EXISTING AC PAVEMENT THICKNESS IN WILLOW ROAD IS APPROXIMATELY 18". THIS THICKNESS IS TO BE REPLACED AFTER POINT REPAIRS ARE MADE.



MATCHLINE STA: 5+50
SEE SHEET 17

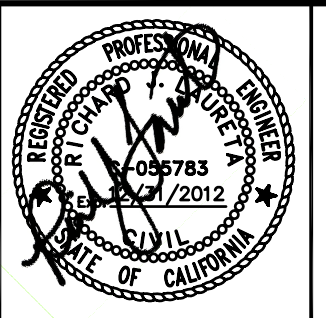
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WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY

PROJECT No. 1756.7



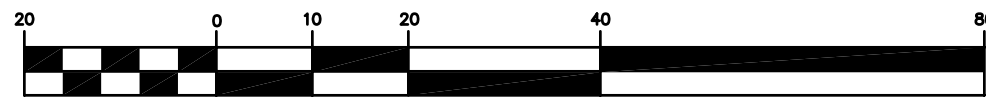
CAPITAL IMPROVEMENT PROJECT 2010-2011
CIPP PLAN
WILLOW ROAD
STA: 0+00 - 5+50
MENLO PARK, CALIFORNIA

16
 JOB NO.
 1057

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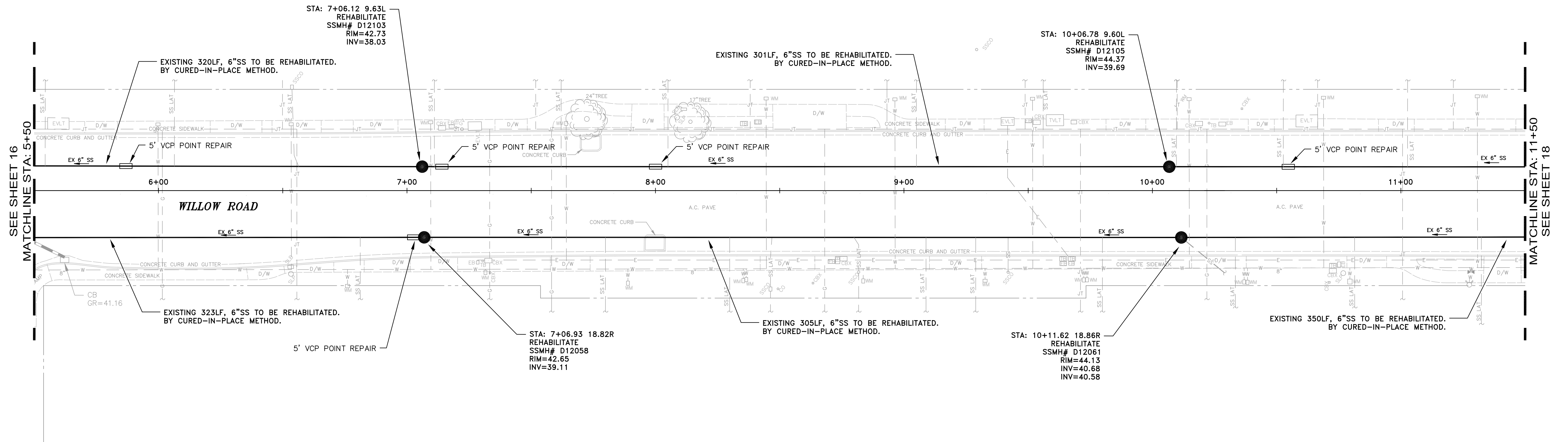
GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

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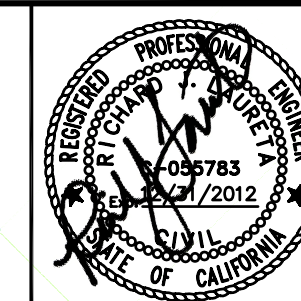
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SAN MATEO COUNTY

PROJECT No. 1756.7



CAPITAL IMPROVEMENT PROJECT 2010-2011
CIPP PLAN
WILLOW ROAD
STA: 5+50 - 11+50
MENLO PARK, CALIFORNIA

17

JOB NO.
1057



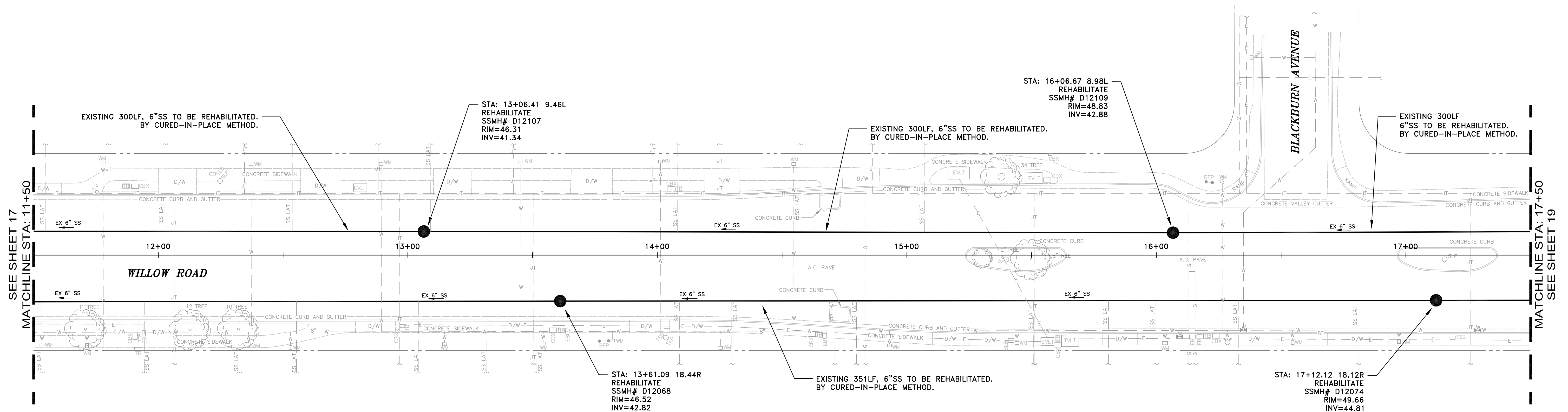
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SEE SHEET 17
MATCHLINE STA: 11+50

MATCHLINE STA: 17+50
SEE SHEET 19

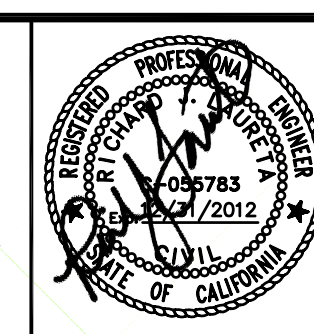
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SAN MATEO COUNTY

PROJECT No. 1756.7



CAPITAL IMPROVEMENT PROJECT 2010-2011
CIPP PLAN
WILLOW ROAD
STA: 11+50 - 17+50
MENLO PARK, CALIFORNIA

18
JOB No.
1057

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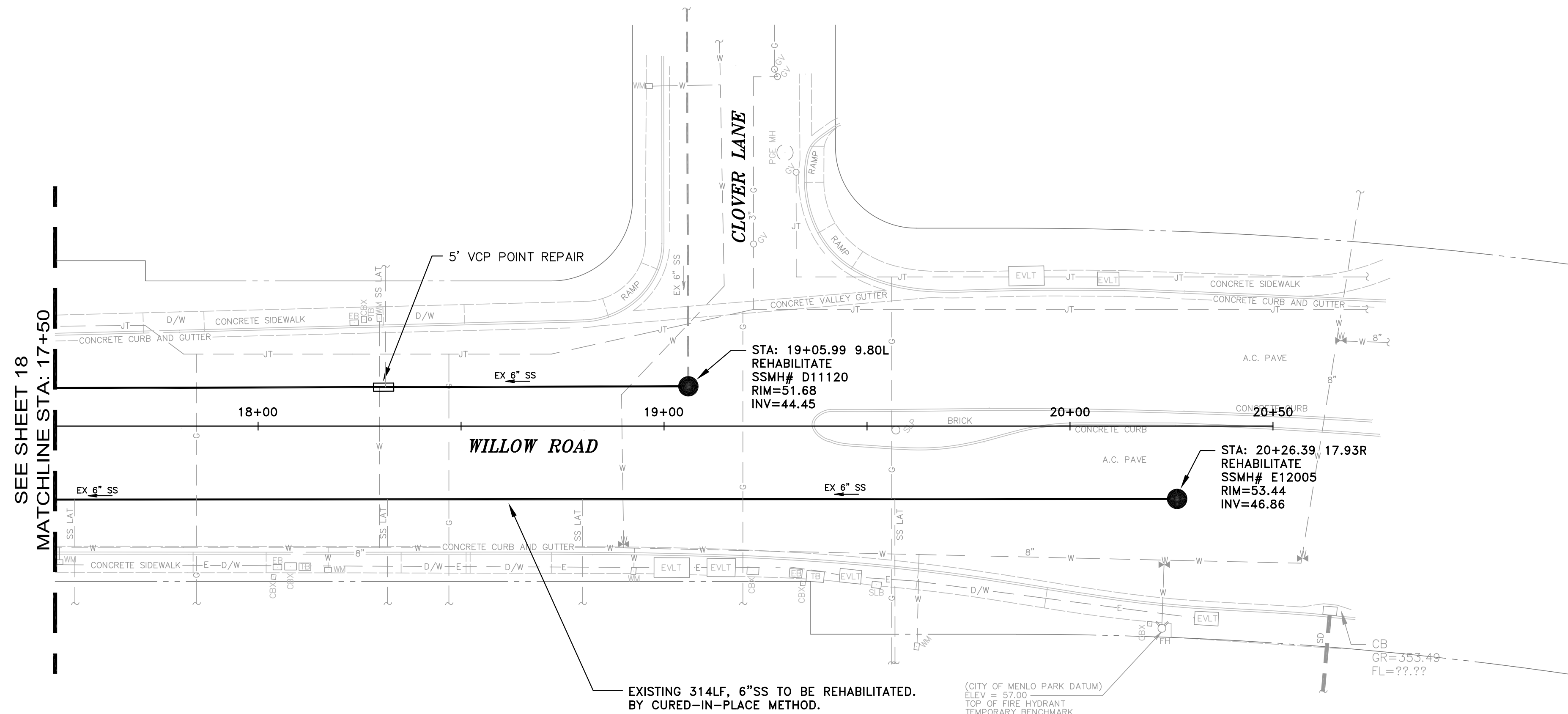
GRAPHIC SCALE



(IN FEET)
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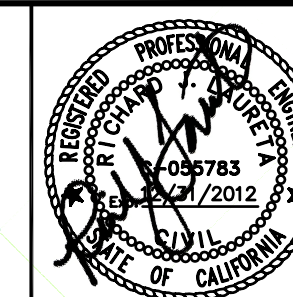
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WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY

PROJECT No. 1756.7



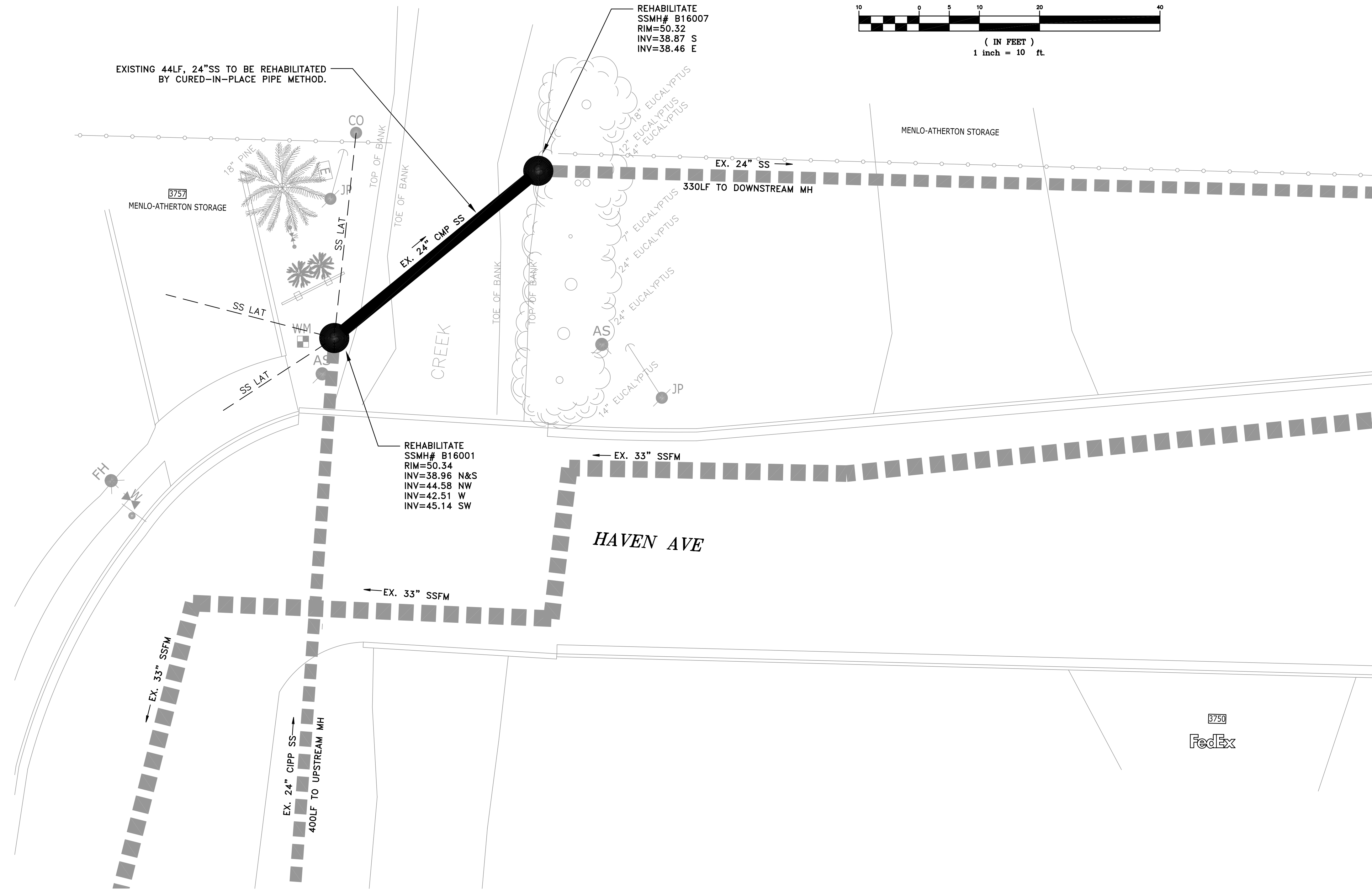
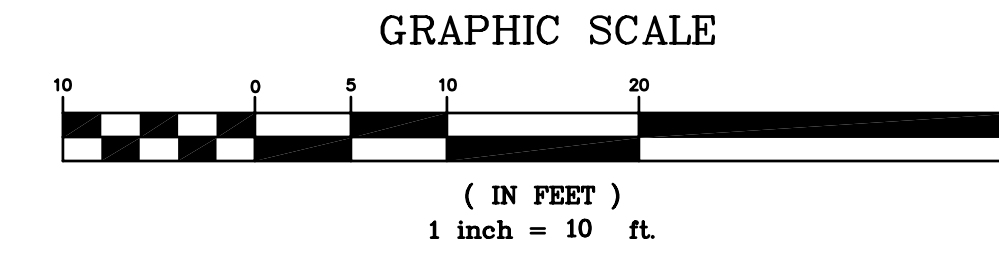
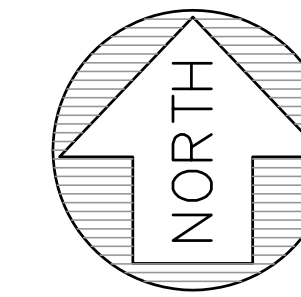
CAPITAL IMPROVEMENT PROJECT 2010-2011
CIPP PLAN
WILLOW ROAD
STA. 17+50 - 20+50
MENLO PARK, CALIFORNIA

19
 JOB NO.
 1057

Z:\Projects\001_WBSD\057_CIP_2011\AAA_Latest\Sheet 16-19 Willow.dwg

NOTES:

- 1) CONTRACTOR SHALL BE RESPONSIBLE FOR THE UNINTERRUPTION OF SEWER LATERAL SERVICE FOR ALL PROPERTIES. CONTRACTOR SHALL SUBMIT BYPASS PLAN TO THE DISTRICT FOR APPROVAL 10 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
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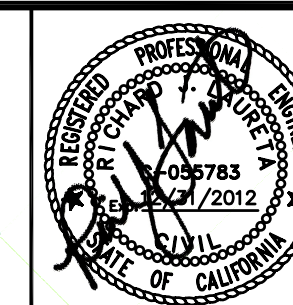
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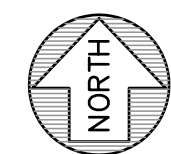
WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY

PROJECT No. 1756.7



CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN
HAVEN AVE
STA: 0+00 - 0+43.80
MENLO PARK, CALIFORNIA

20
 JOB NO.
 1057



GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

THRUST BLOCK

INSTALL TYPE "B" BYPASS CONNECTION POINT

INSTALL NEW 10" FUSIBLE PVC C900 SANITARY SEWER FORCE MAIN BY HORIZONTAL DIRECTIONAL DRILLING METHOD.

ABANDON EX. 6" AC SSFM IN PLACE FILL PIPE WITH SLURRY AND CAP ENDS WITH 12" OF CONCRETE.

NOTES:

- 1) FROM STATION 16+50 TO 32+00 CONTRACTOR SHALL PLACE THE NEW SSFM EQUAL DISTANCE BETWEEN WATER MAINS.
- 2) PERFORM 4 POTHOLES FOR FIBER OPTICS, IN THE AREA BETWEEN STA: 24+00 TO 32+25.
- 3) CONTRACTOR SHALL BE RESPONSIBLE FOR THE UNINTERRUPTION OF SEWER LATERAL SERVICE FOR ALL PROPERTIES. CONTRACTOR SHALL SUBMIT BYPASS PLAN TO THE DISTRICT FOR APPROVAL 10 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
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- 5) FUSIBLE PVC C900 PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.

PORTOLA ROAD

MH# N11001
RIM=510.81
INV=504.65 THRU
INV=504.41 S&W

CORTE MADERA
DUPLX PUMP STATION
SUMP=497.06
(SEE PUMP STATION NOTES)

CORTE MADERA CREEK

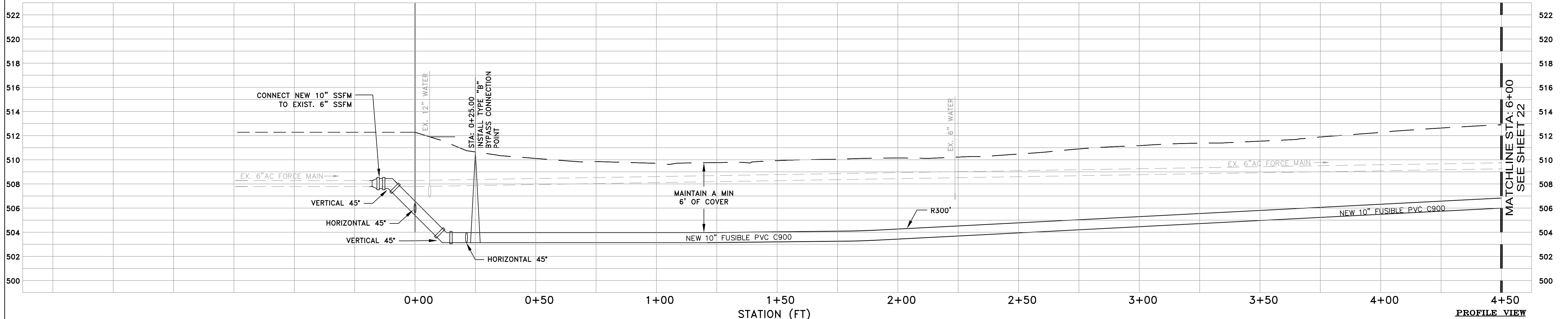
PUMP STATION NOTES:

- 1) CONTRACTOR SHALL PURCHASE AND INSTALL TWO FLYGT CP3152 454HT IMPELLERS AND NEW WEAR RINGS PER MANUFACTURERS RECOMMENDATIONS.

BROOKSIDE DRIVE

PORTOLA ROAD

MATCHLINE STA: 4+50
SEE SHEET 22



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

DATE:	04/06/11	04/06/11	ISSUED FOR BID
SCALE:	AS NOTED		
DESIGNED:	RJL		
DRAWN:	JJF		
CHECKED:	RJL		
PROJ. ENGR:	RJL		
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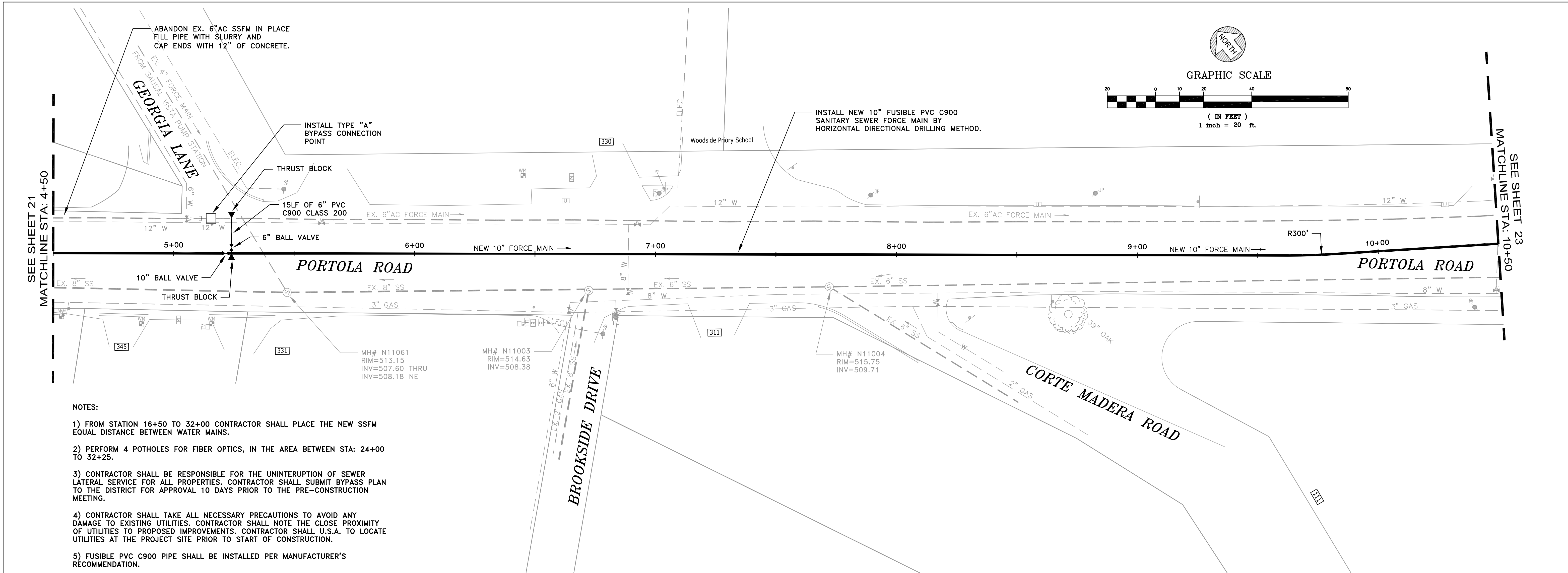
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WEST BAY
SANITARY DISTRICT
SAN MATEO COUNTY
PROJECT No. 1756.7

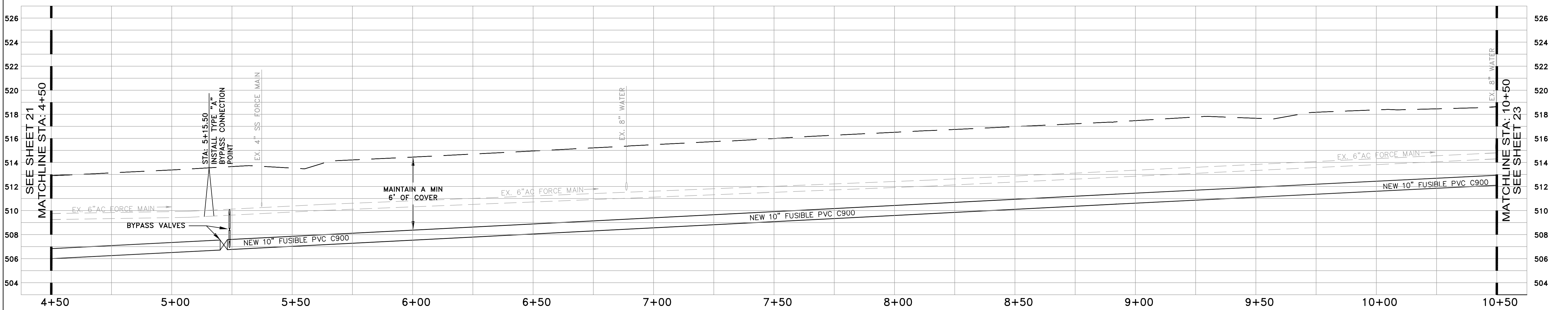


CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
CORTE MADERA FORCE MAIN
STA: 0+00 - 4+50
PORTOLA VALLEY, CALIFORNIA

21
JOB NO.
1057



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

DATE:	04/06/11	04/06/11	ISSUED FOR BID
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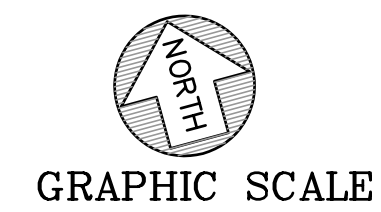
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WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY
 PROJECT No. 1756.7

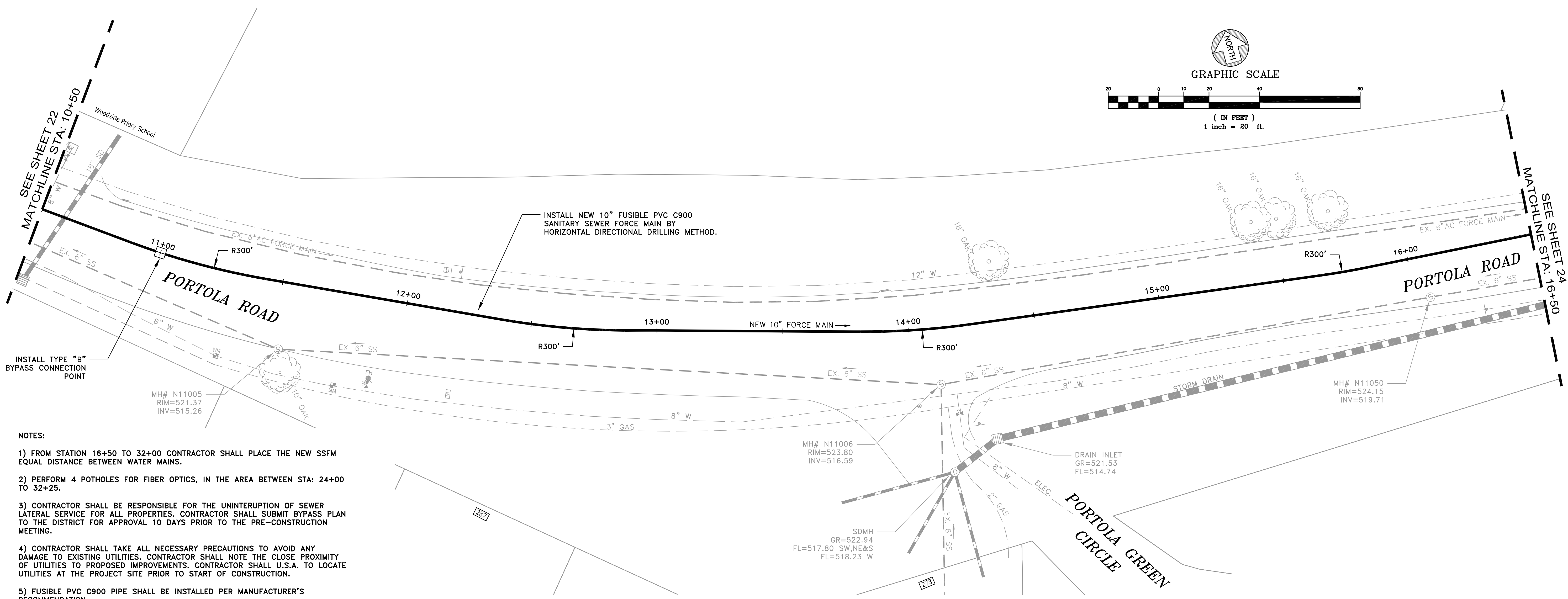


CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
CORTE MADERA FORCE MAIN
STA: 4+50 - 10+50
PORTOLA VALLEY, CALIFORNIA

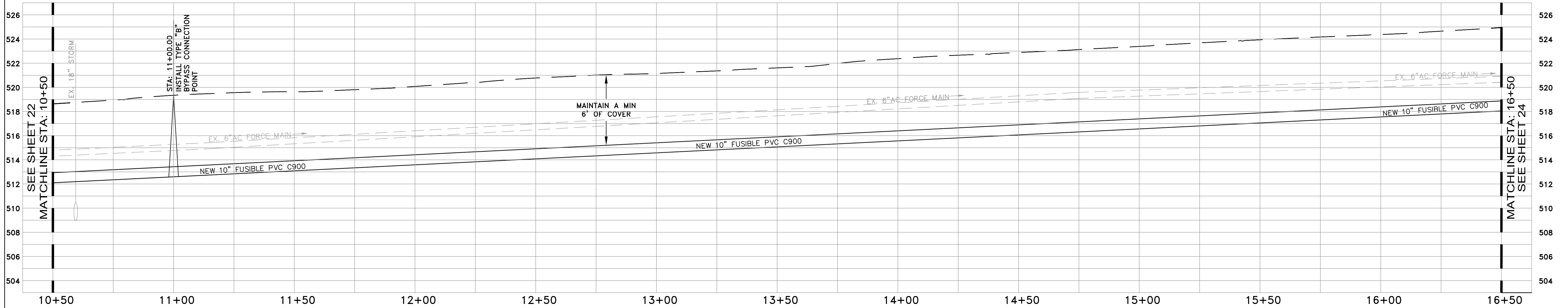
22
 JOB No.
 1057



GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.



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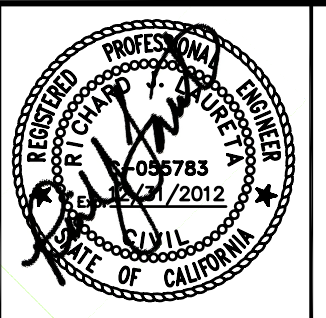
PROFILE VIEW
HORIZ: 1" = 20'
VERT: 1" = 4'

DATE:	04/06/11	04/06/11	ISSUED FOR BID
SCALE:	AS NOTED		
DESIGNED:	RJL		
DRAWN:	JJF		
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. 1756.7

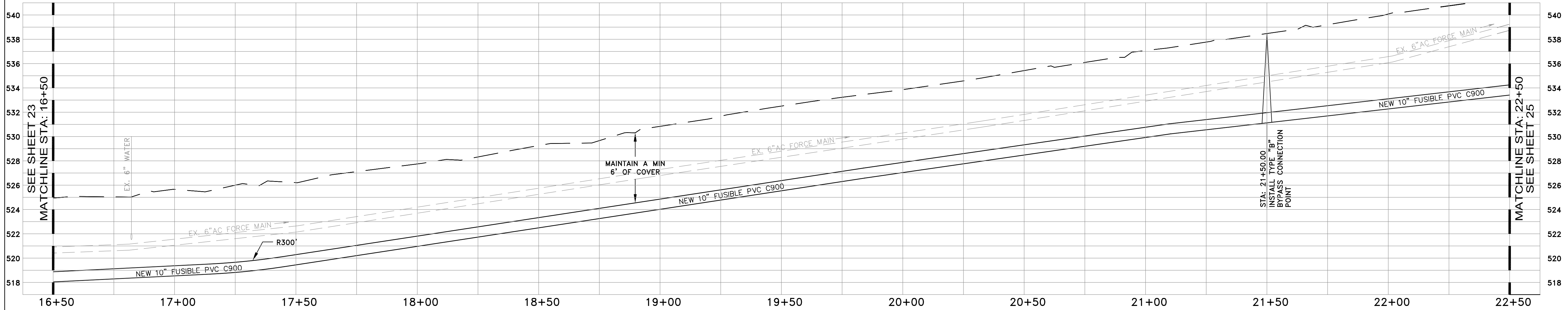
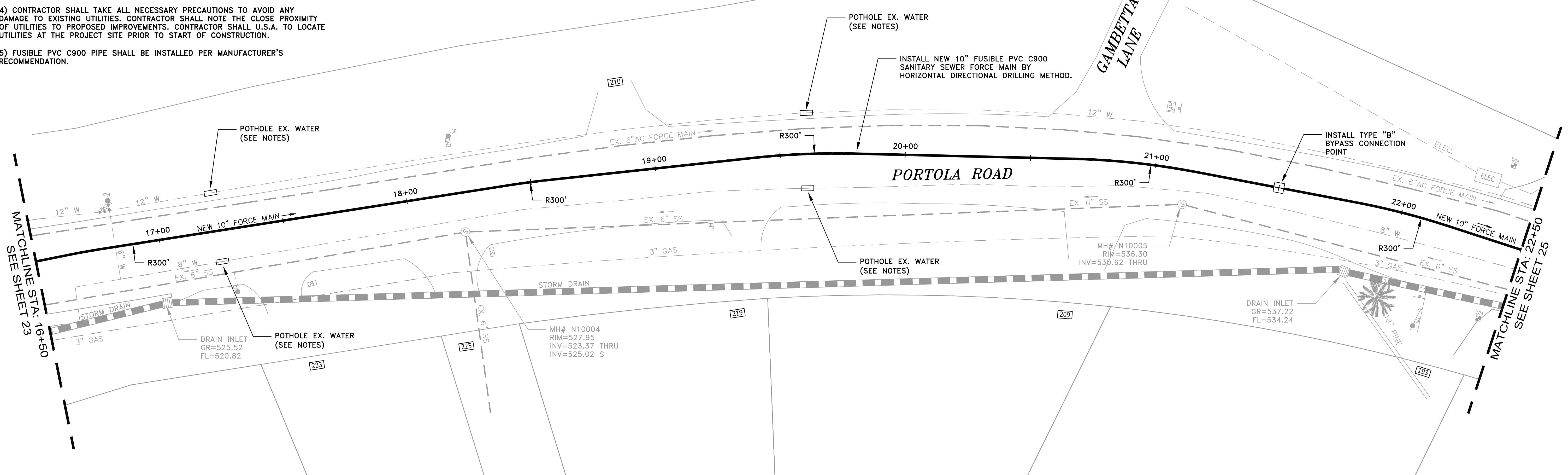
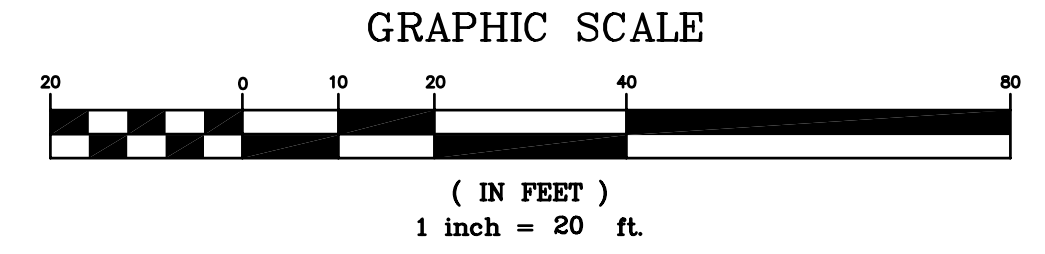
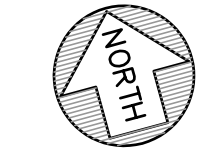


CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
CORTE MADERA FORCE MAIN
STA:10+50 - 16+50
PORTOLA VALLEY, CALIFORNIA

23
JOB No.
1057

NOTES:

- 1) FROM STATION 16+50 TO 32+00 CONTRACTOR SHALL PLACE THE NEW SSFM EQUAL DISTANCE BETWEEN WATER MAINS.
- 2) PERFORM 4 POTHOLES FOR FIBER OPTICS, IN THE AREA BETWEEN STA: 24+00 TO 32+25.
- 3) CONTRACTOR SHALL BE RESPONSIBLE FOR THE UNINTERRUPTION OF SEWER LATERAL SERVICE FOR ALL PROPERTIES. CONTRACTOR SHALL SUBMIT BYPASS PLAN TO THE DISTRICT FOR APPROVAL 10 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 4) 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 U.S.A. TO LOCATE UTILITIES AT THE PROJECT SITE PRIOR TO START OF CONSTRUCTION.
- 5) FUSIBLE PVC C900 PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.



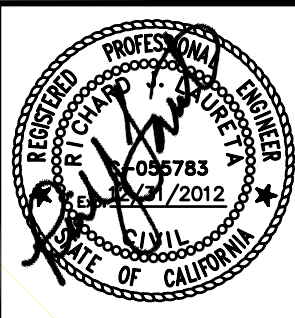
PROFILE VIEW
HORIZ: 1" = 20'
VERT: 1" = 4'

DATE:	04/06/11	04/06/11	ISSUED FOR BID
SCALE:	AS NOTED		
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SANITARY DISTRICT
SAN MATEO COUNTY
PROJECT No. 1756.7

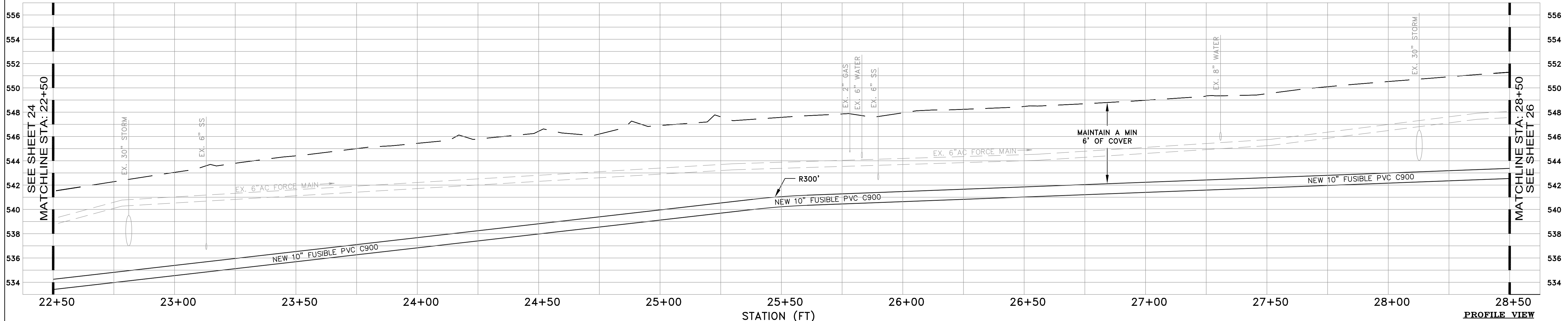
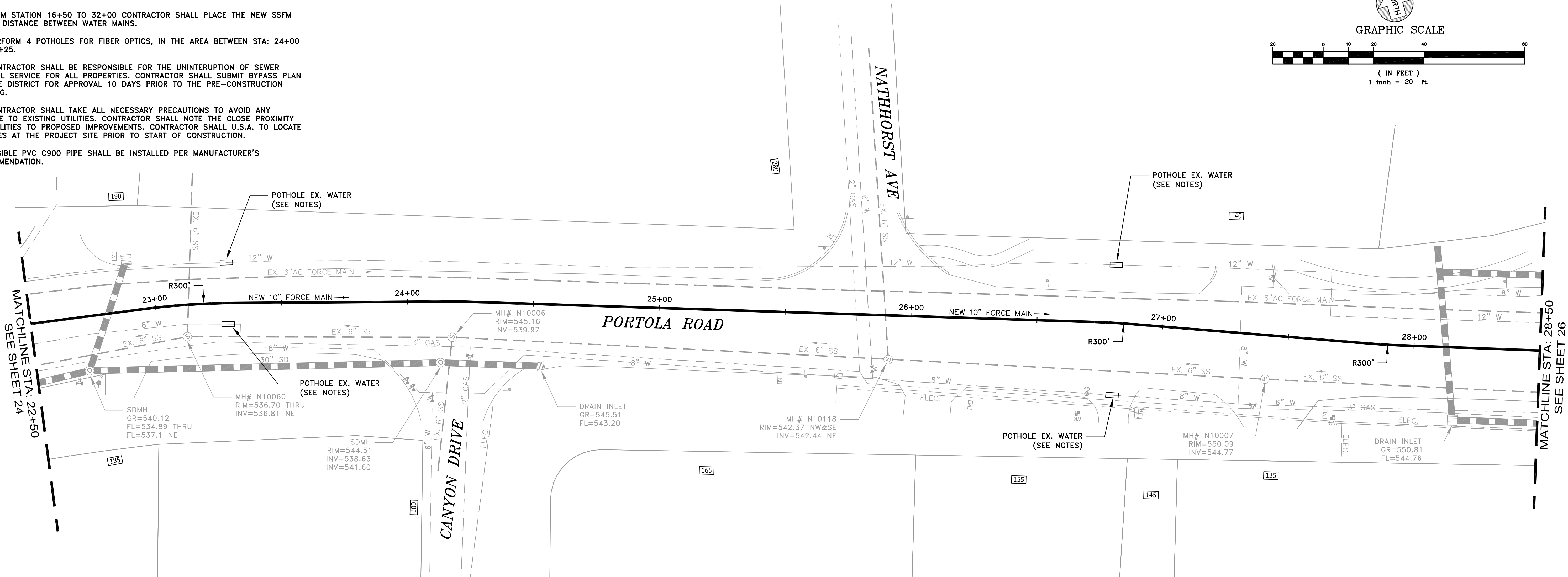
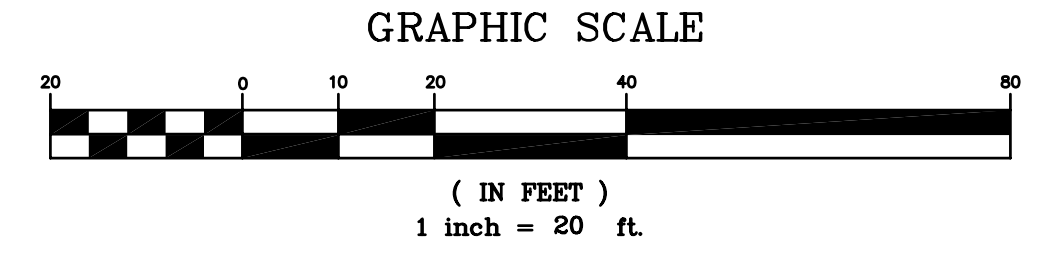
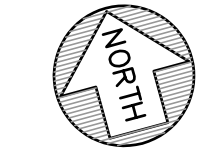


CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
CORTE MADERA FORCE MAIN
STA. 16+50 - 22+50
PORTOLA VALLEY, CALIFORNIA

24
JOB No.
1057

NOTES:

- 1) FROM STATION 16+50 TO 32+00 CONTRACTOR SHALL PLACE THE NEW SSFM EQUAL DISTANCE BETWEEN WATER MAINS.
- 2) PERFORM 4 POTHOLES FOR FIBER OPTICS, IN THE AREA BETWEEN STA: 24+00 TO 32+25.
- 3) CONTRACTOR SHALL BE RESPONSIBLE FOR THE UNINTERRUPTION OF SEWER LATERAL SERVICE FOR ALL PROPERTIES. CONTRACTOR SHALL SUBMIT BYPASS PLAN TO THE DISTRICT FOR APPROVAL 10 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 4) 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 U.S.A. TO LOCATE UTILITIES AT THE PROJECT SITE PRIOR TO START OF CONSTRUCTION.
- 5) FUSIBLE PVC C900 PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.



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WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY
 PROJECT No. 1756.7

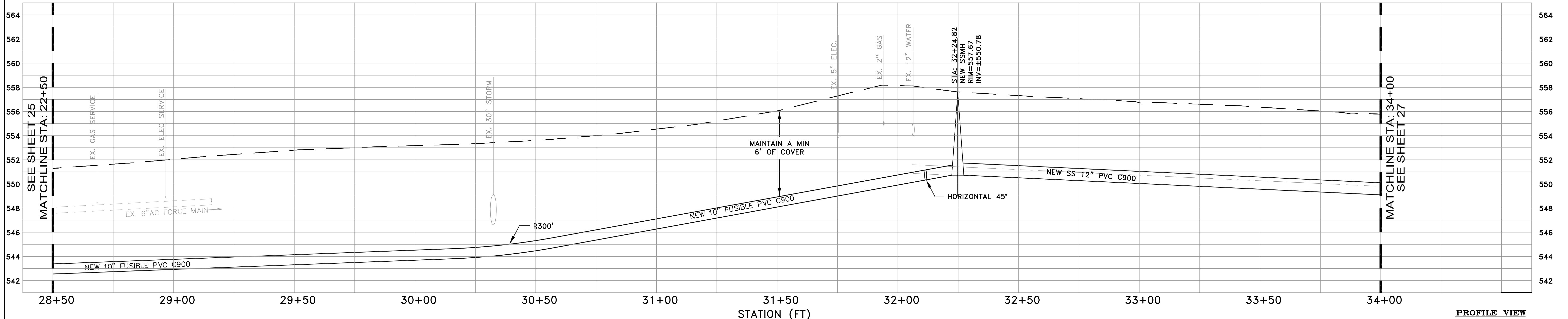
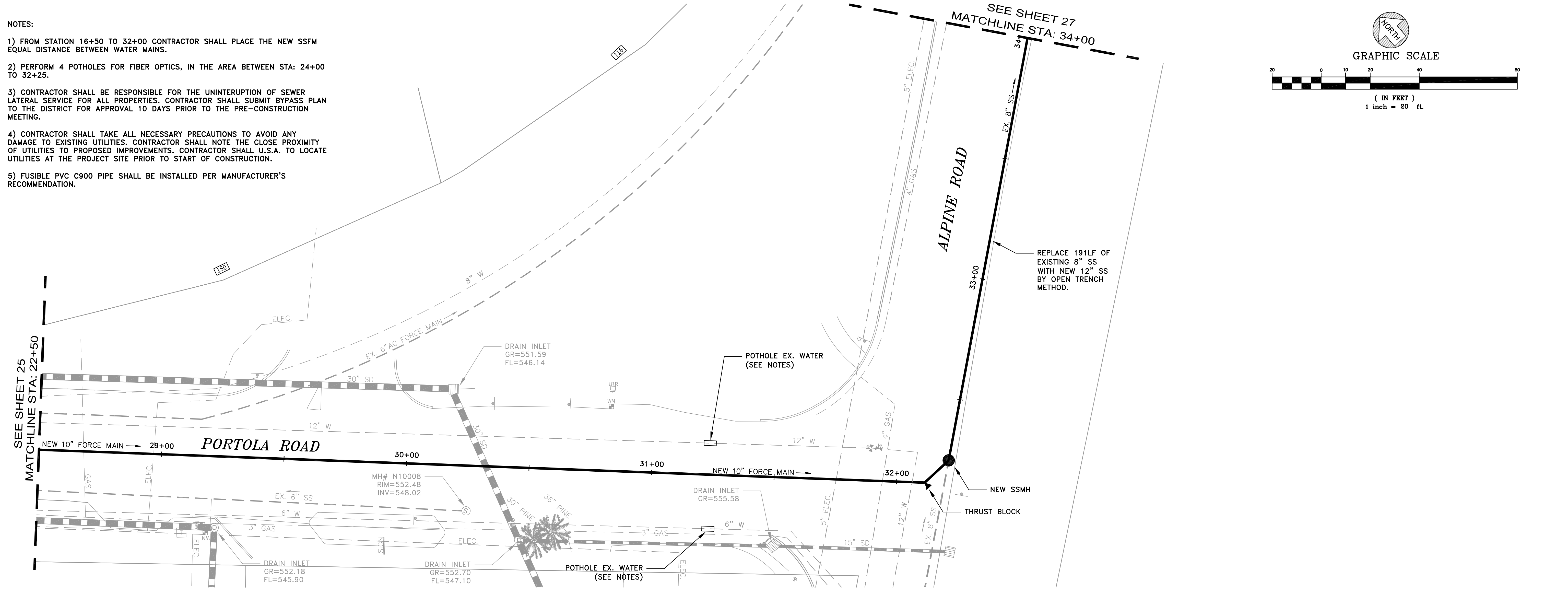
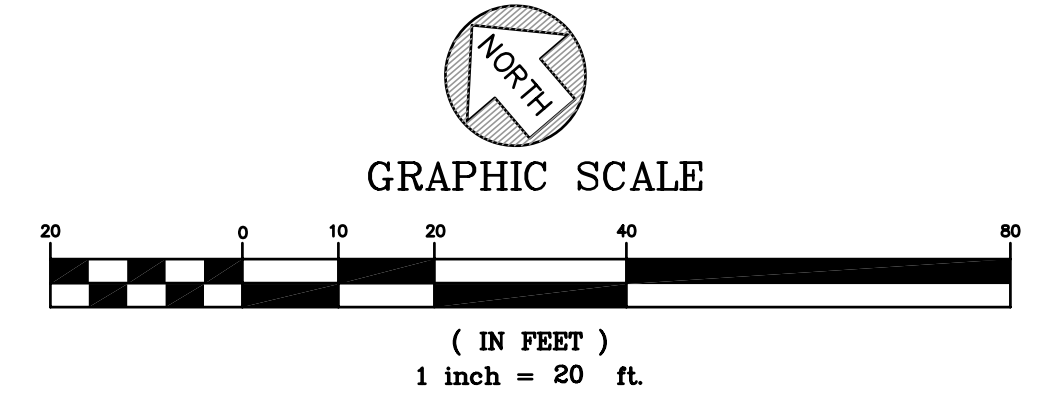


CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
CORTE MADERA FORCE MAIN
STA. 22+50 - 28+50
PORTOLA VALLEY, CALIFORNIA

25
 JOB NO.
 1057

NOTES:

- 1) FROM STATION 16+50 TO 32+00 CONTRACTOR SHALL PLACE THE NEW SSFM EQUAL DISTANCE BETWEEN WATER MAINS.
- 2) PERFORM 4 POTHOLES FOR FIBER OPTICS, IN THE AREA BETWEEN STA: 24+00 TO 32+25.
- 3) CONTRACTOR SHALL BE RESPONSIBLE FOR THE UNINTERRUPTION OF SEWER LATERAL SERVICE FOR ALL PROPERTIES. CONTRACTOR SHALL SUBMIT BYPASS PLAN TO THE DISTRICT FOR APPROVAL 10 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 4) 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 U.S.A. TO LOCATE UTILITIES AT THE PROJECT SITE PRIOR TO START OF CONSTRUCTION.
- 5) FUSIBLE PVC C900 PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.



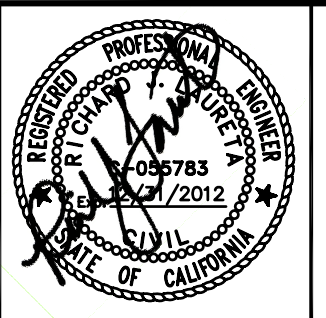
PROFILE VIEW
 HORIZ: 1" = 20'
 VERT: 1" = 4'

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 SAN MATEO COUNTY
 PROJECT No. 1756.7



CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
CORTE MADERA FORCE MAIN
STA: 28+50 - 34+00
PORTOLA VALLEY, CALIFORNIA

26
 JOB NO.
 1057

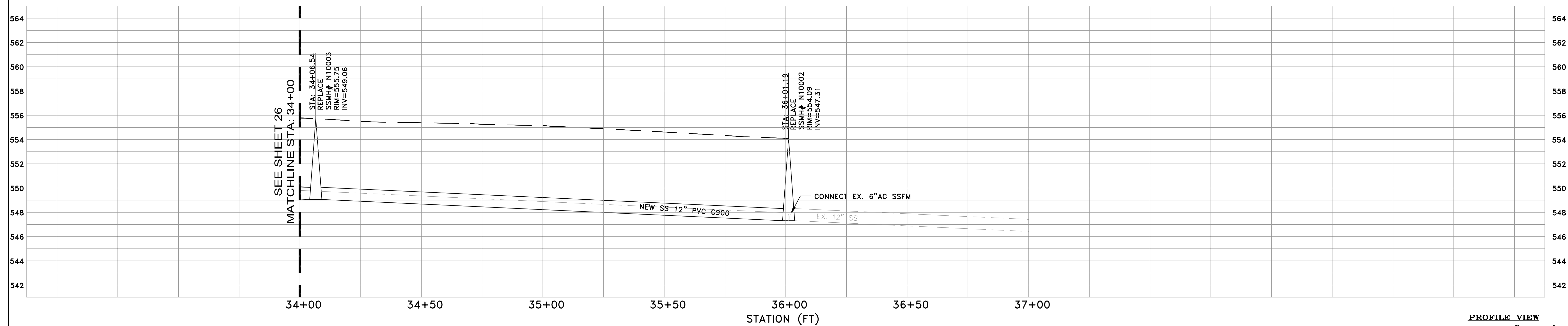
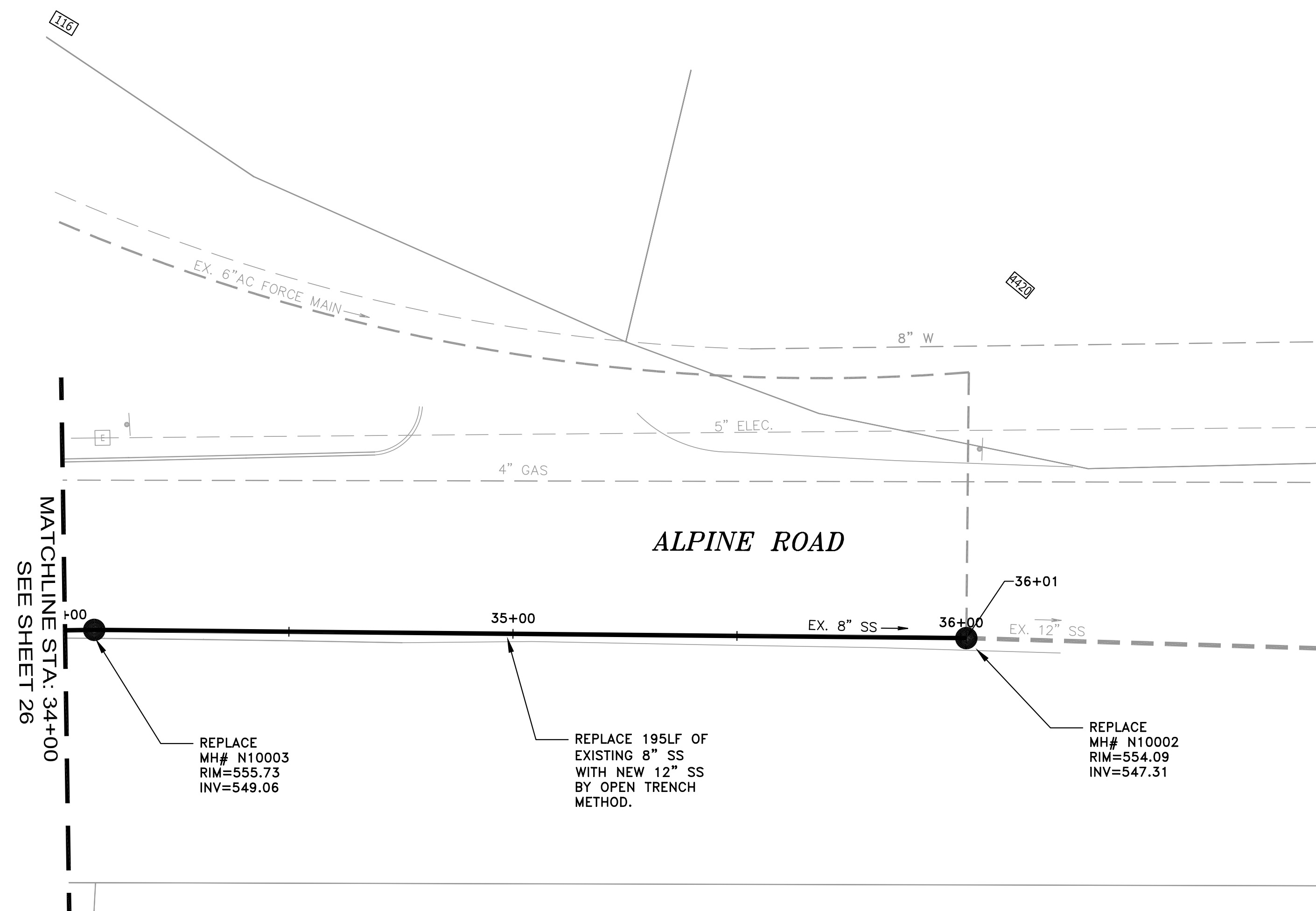
Z:\Projects\001_WBSD\057_CIP_2011\AAA_Latest\Sheet 21-27 Corte Madera Force Main.dwg



GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.



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

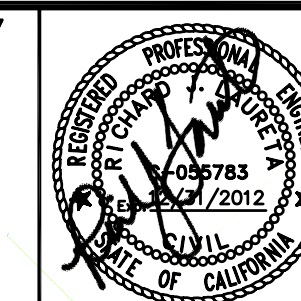
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WEST BAY
SANITARY DISTRICT
SAN MATEO COUNTY

PROJECT No. 1756.7

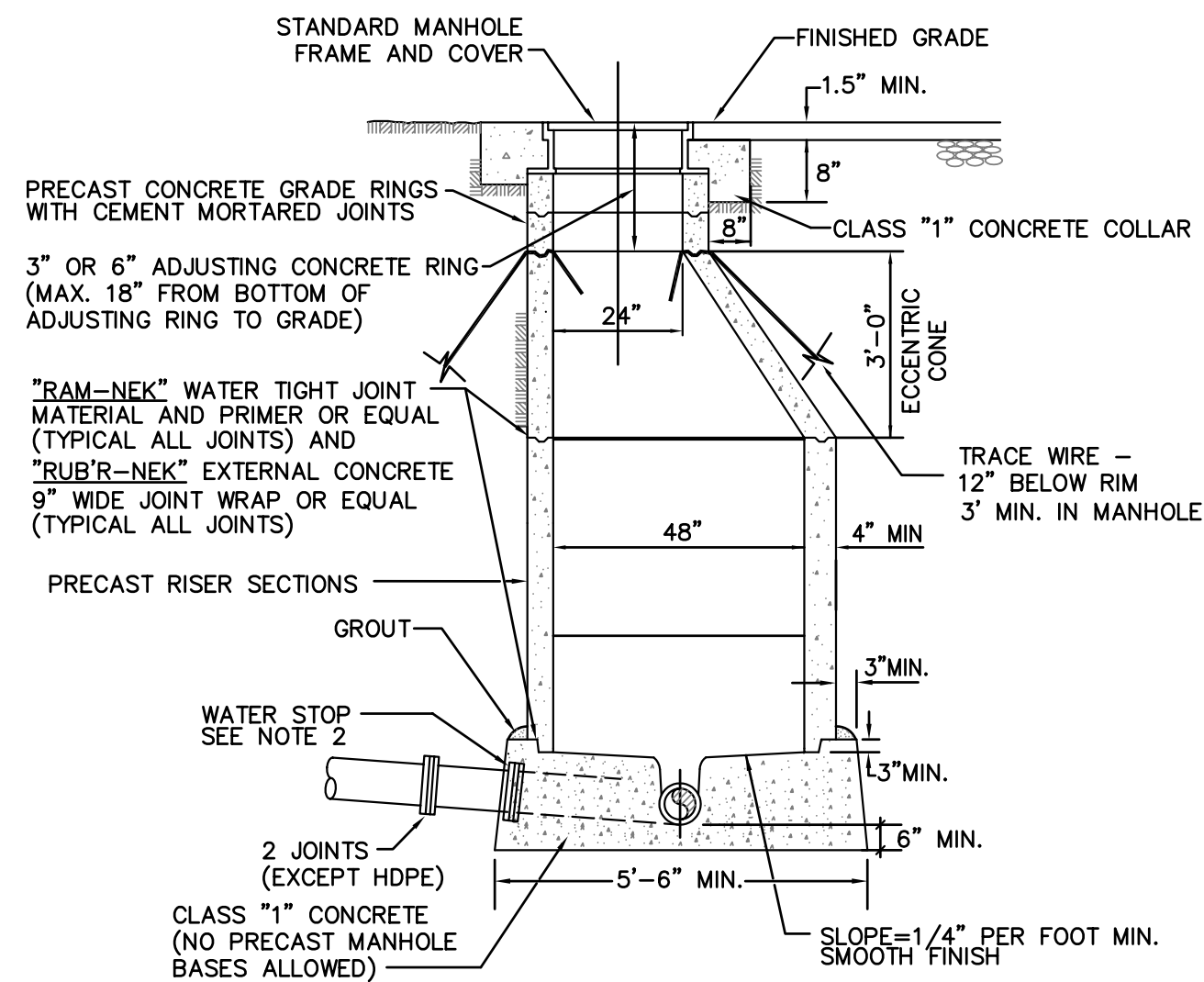


CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
CORTE MADERA FORCE MAIN
STA: 34+00 - 37+00
PORTOLA VALLEY, CALIFORNIA

27

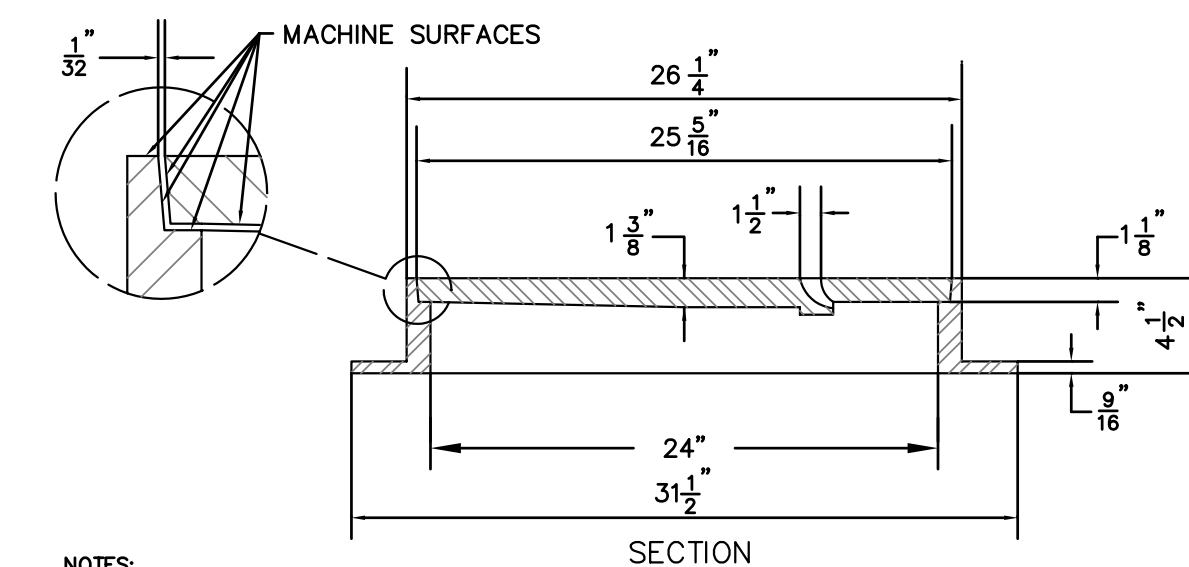
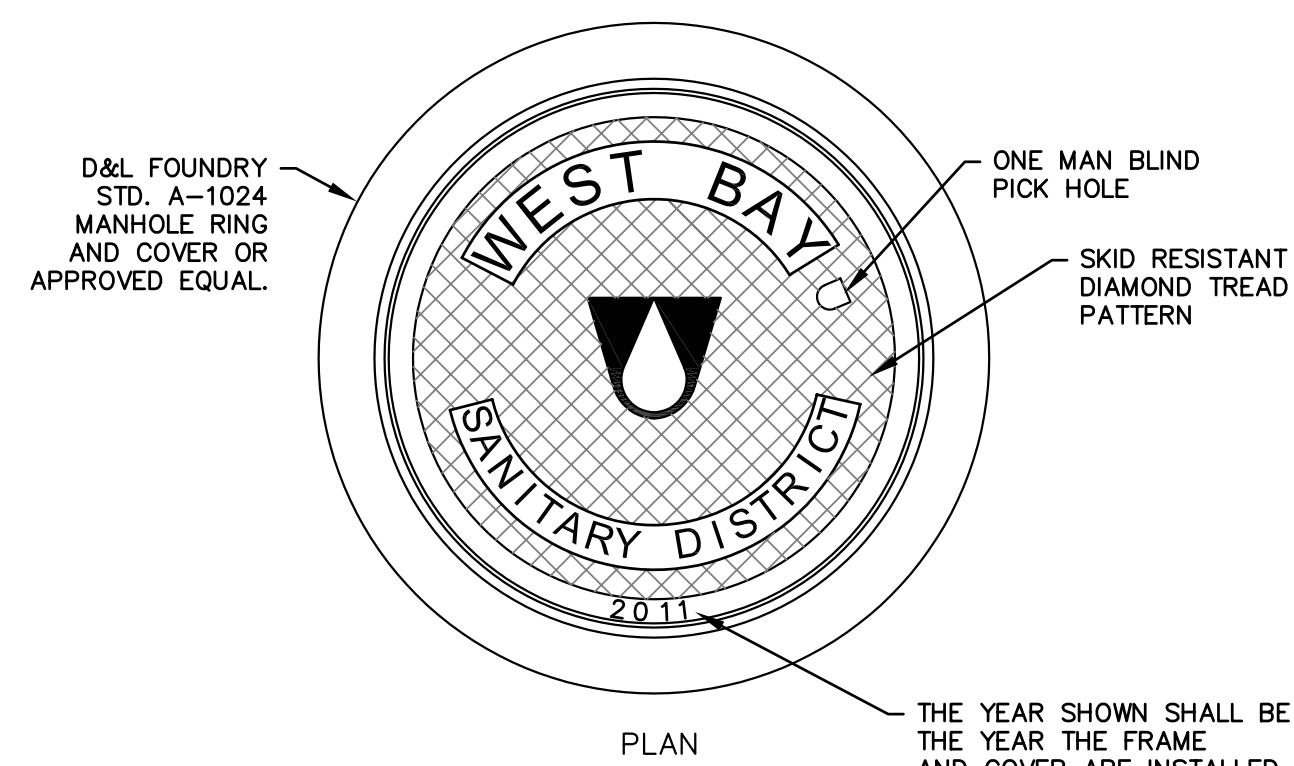
JOB NO.

1057



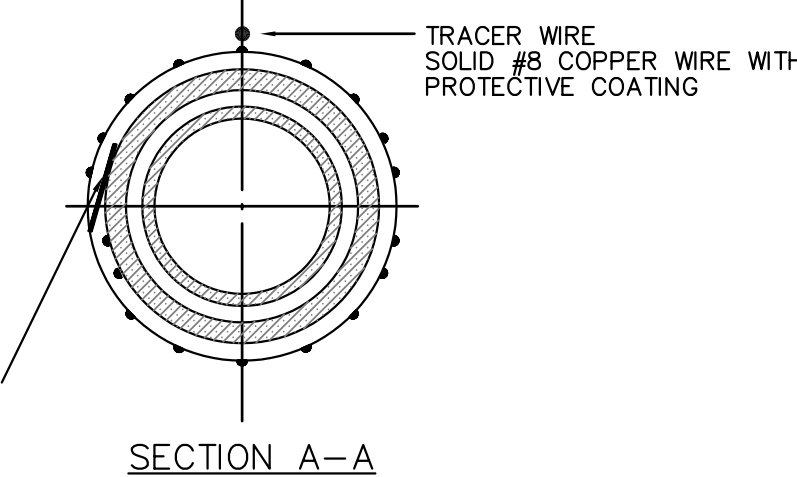
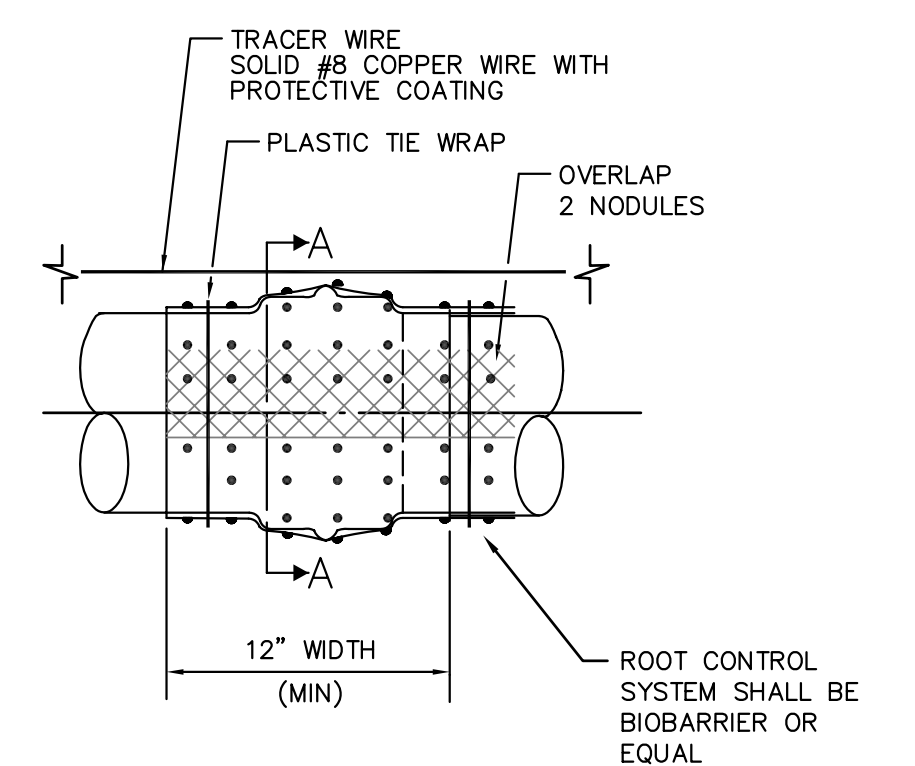
- NOTES:**
- 1) MANHOLE BASES SHALL BE PLACED ON IMPORTED BEDDING MATERIAL COMPACTED TO 95% RELATIVE COMPACTION.
 - 2) AN APPROVED WATER STOP SHALL BE INSTALLED ON ALL FLEXIBLE PIPE ENTERING OR LEAVING A MANHOLE, AND CENTERED UNDER MANHOLE WALL.
 - 3) INSTALL "RAM-NEK" WATER TIGHT JOINT MATERIAL OR EQUAL 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



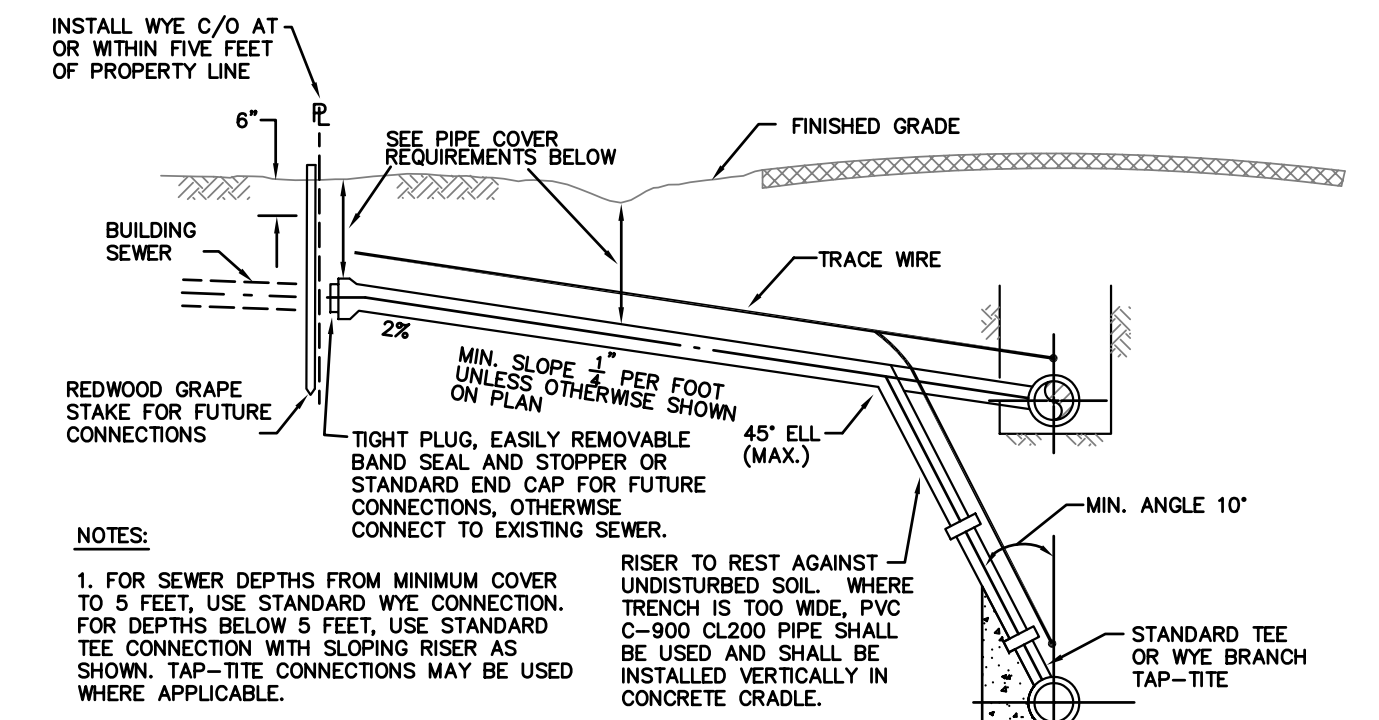
- NOTES:**
- 1) CAST IRON FOR FRAME AND COVER SHALL BE CLASS 30 MINIMUM PER ASTM A-48.
 - 2) COVERS SHALL BE H-20 LOADING AND SHALL NOT EXCEED 145 POUNDS IN WEIGHT.
 - 3) THE FRAME AND COVER SHALL BE PAINTED OR DIPPED IN ASPHALT PRIOR TO LEAVING FOUNDRY.

MANHOLE FRAME AND COVER



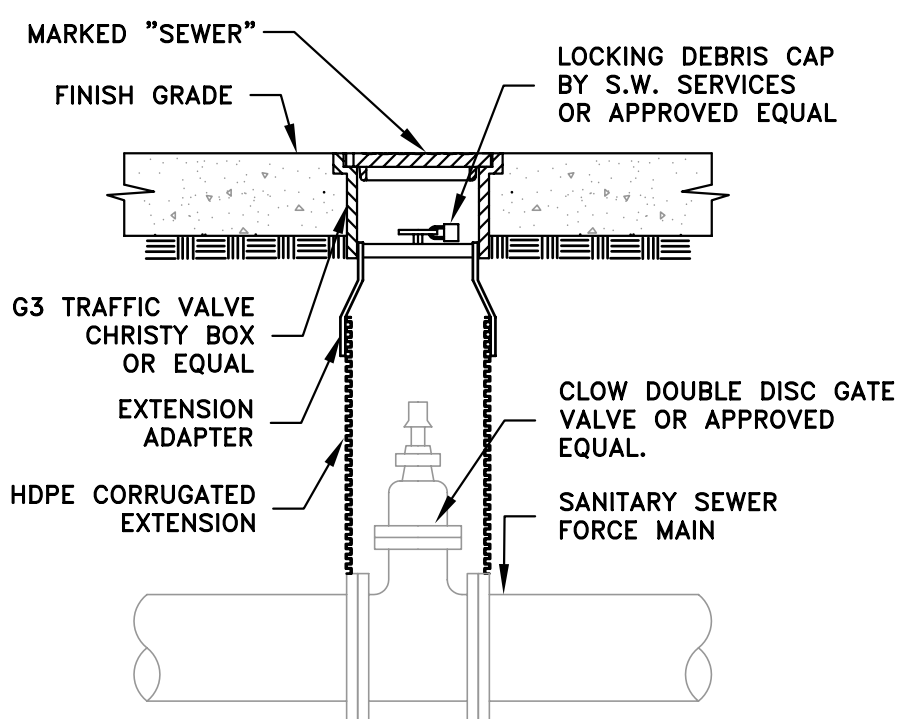
- APPLICATION:**
- 1) ALL NEW MAIN SEWER PROJECTS.
 - 2) ALL NEW OR REPLACEMENT SANITARY SEWER LATERAL CONNECTIONS.
 - 3) SANITARY SEWER LATERAL REPAIRS.

ROOT CONTROL SYSTEM

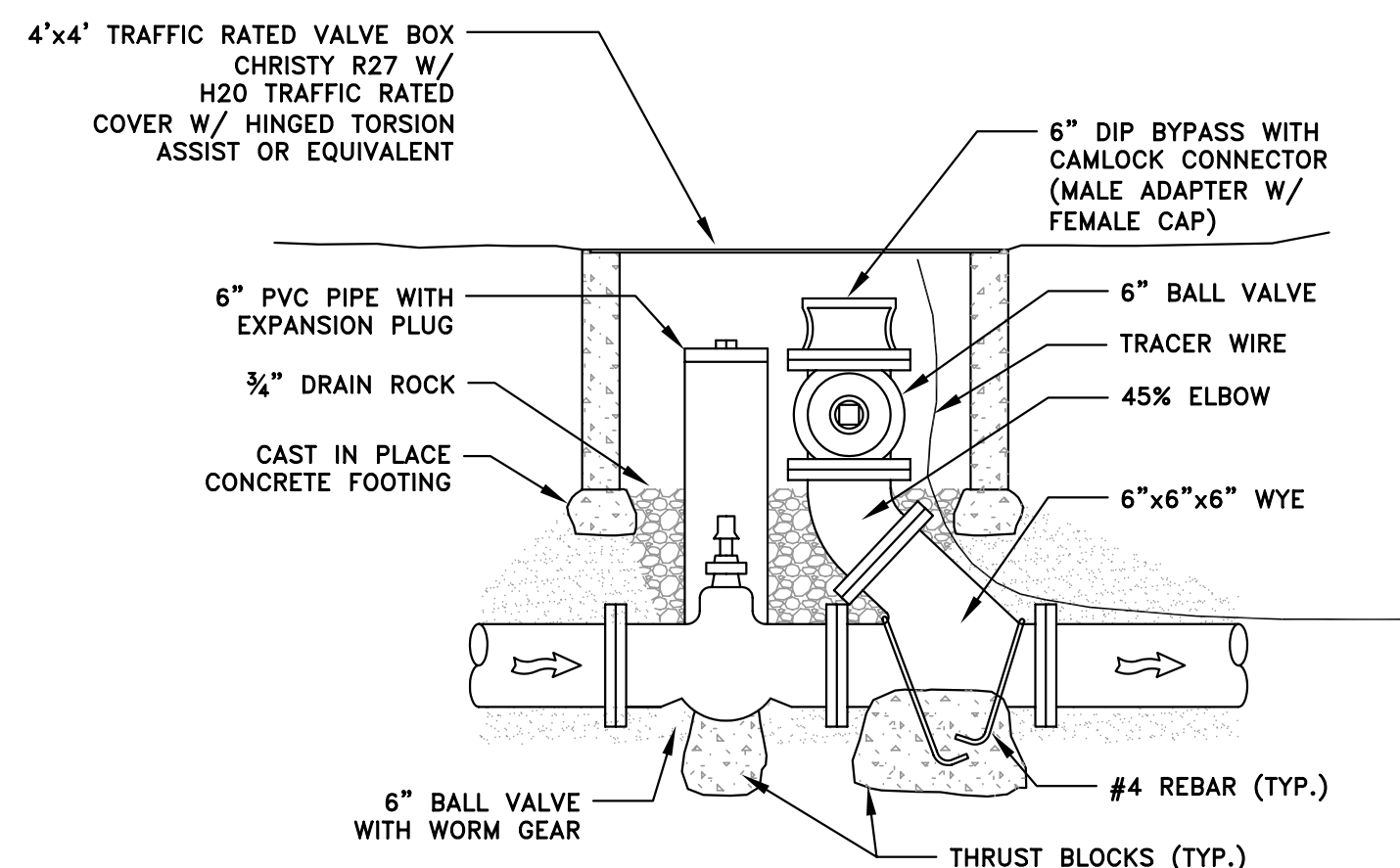


- NOTES:**
1. FOR SEWER DEPTHS FROM MINIMUM COVER TO 5 FEET, USE STANDARD WYE CONNECTION. FOR DEPTHS BELOW 5 FEET, USE STANDARD TEE CONNECTION WITH SLOPING RISER AS SHOWN. TAP-TITE CONNECTIONS MAY BE USED WHERE APPLICABLE.
 2. WHEN SEWER IS AT MINIMUM DEPTH, HOLD SERVICE LINE TO MINIMUM SLOPE AND LESSEN COVER AT PROPERTY LINE. OTHERWISE 3 FEET OF COVER TO OFFICIAL 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.

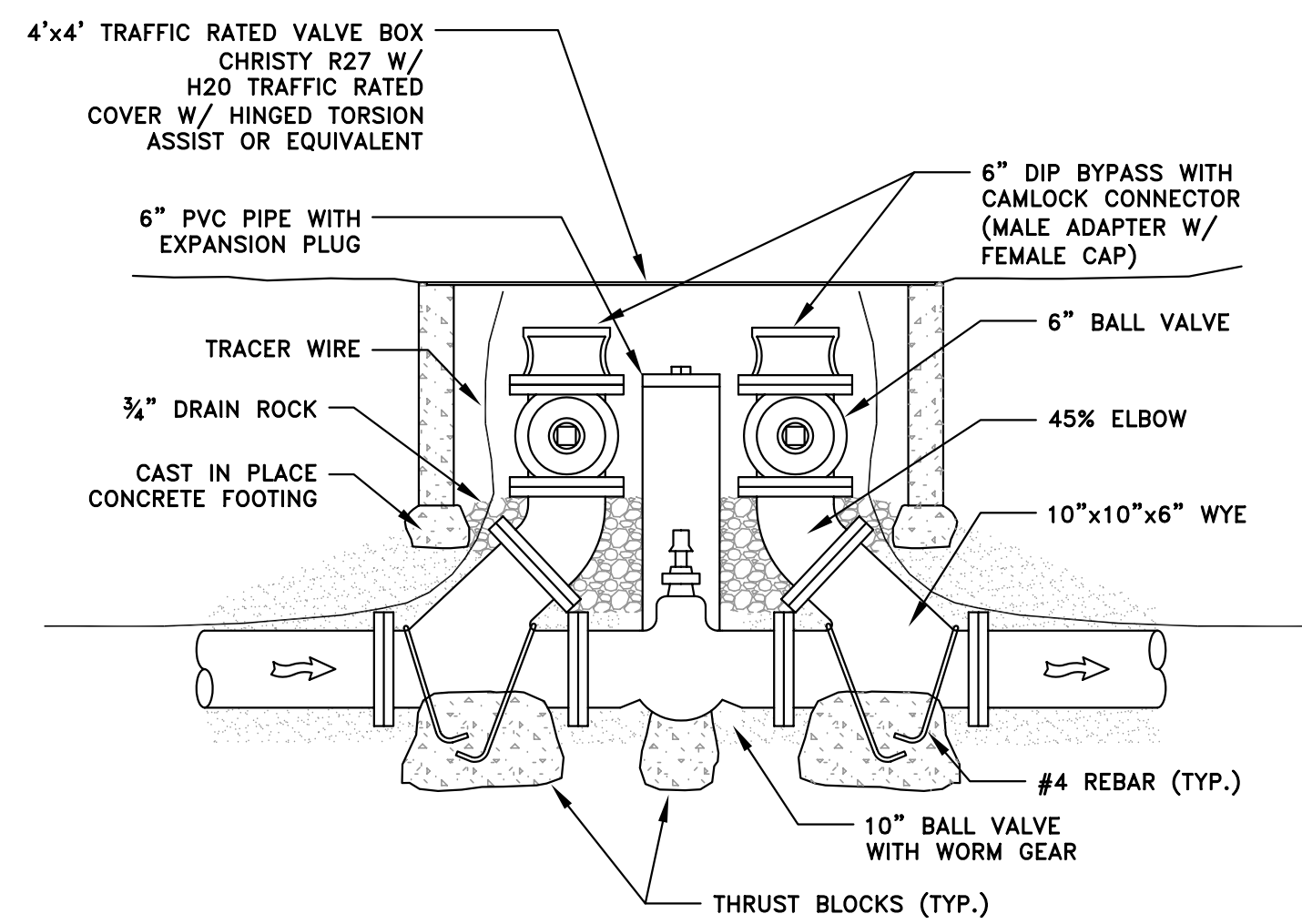
Pipe Cover
 LESS THAN 36" - DIP CLASS 50 OR 51
 36" OR DEEPER - PVC C900 CLASS 150
SANITARY SEWER LATERAL CONNECTIONS



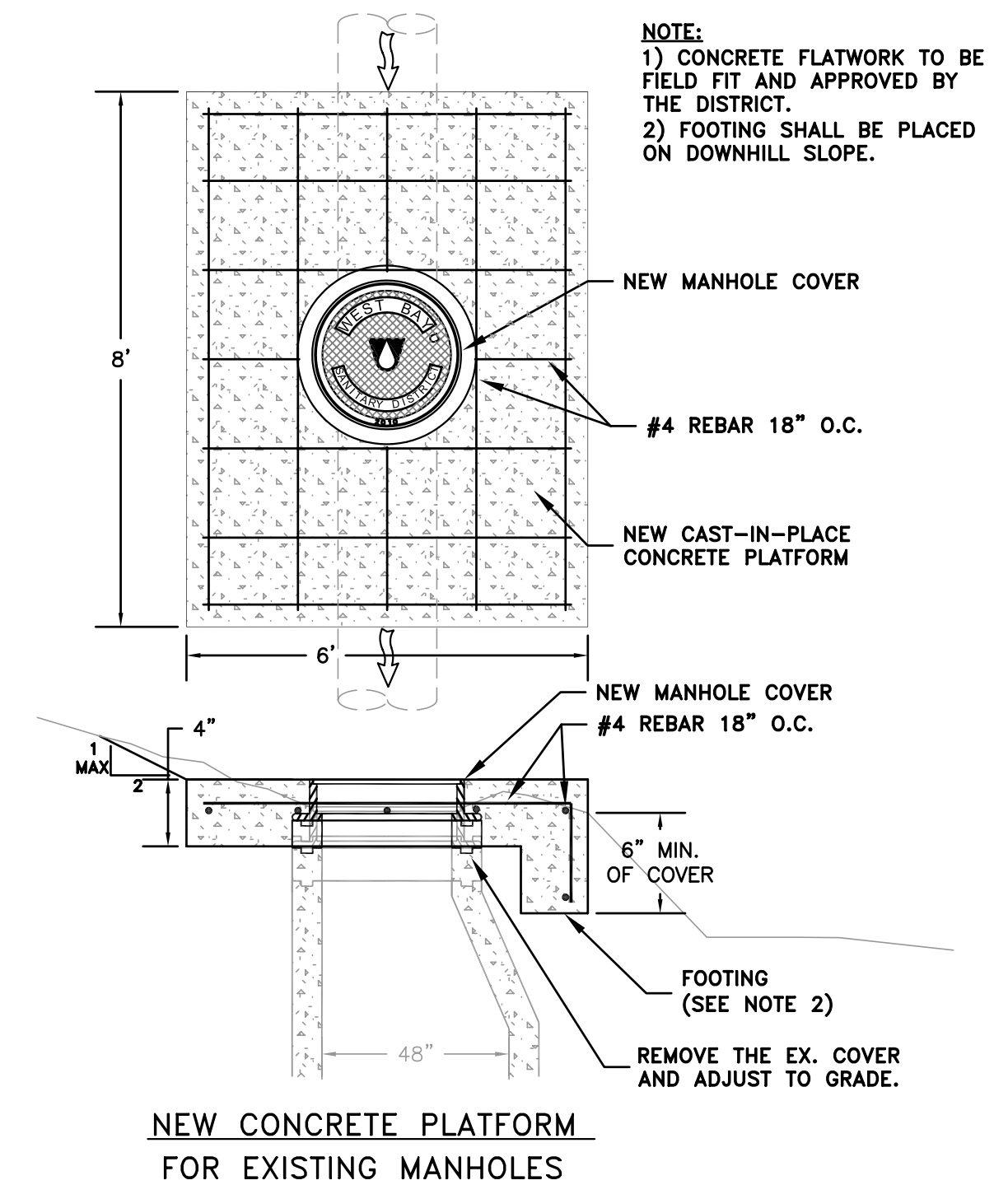
VALVE COVER



FORCE MAIN BYPASS TYPE "A"



FORCE MAIN BYPASS TYPE "B"



NEW CONCRETE PLATFORM FOR EXISTING MANHOLES

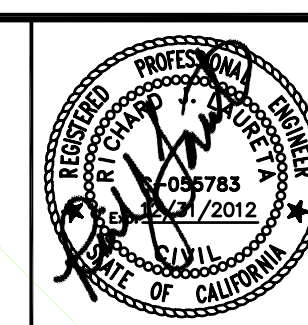
DATE:	04/06/11	04/06/11	ISSUED FOR BID
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WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY

PROJECT No. 1756.7



CAPITAL IMPROVEMENT PROJECT 2010-2011

DETAIL SHEET

SAN MATEO COUNTY, CALIFORNIA

28

JOB NO.

1057

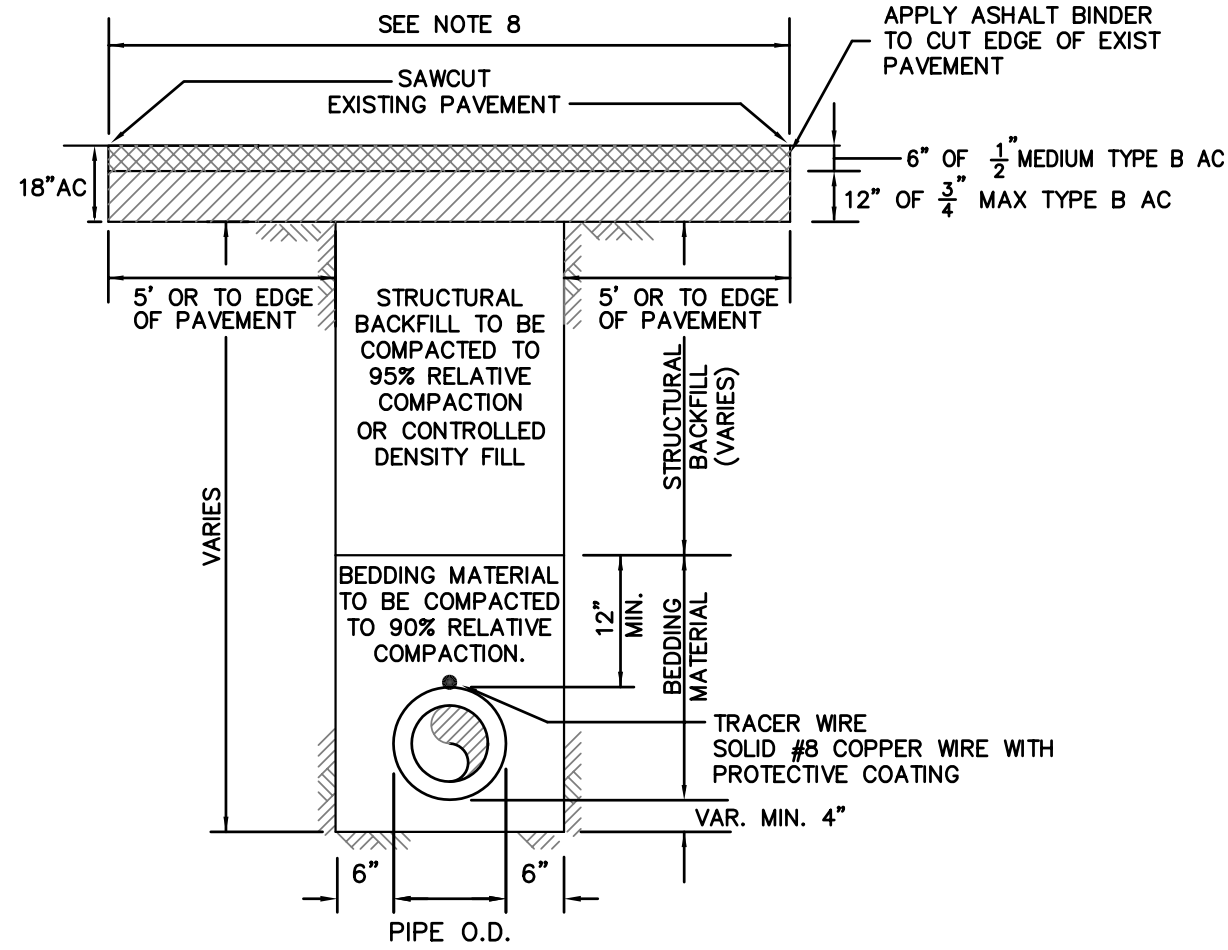
BEDDING MATERIAL

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:

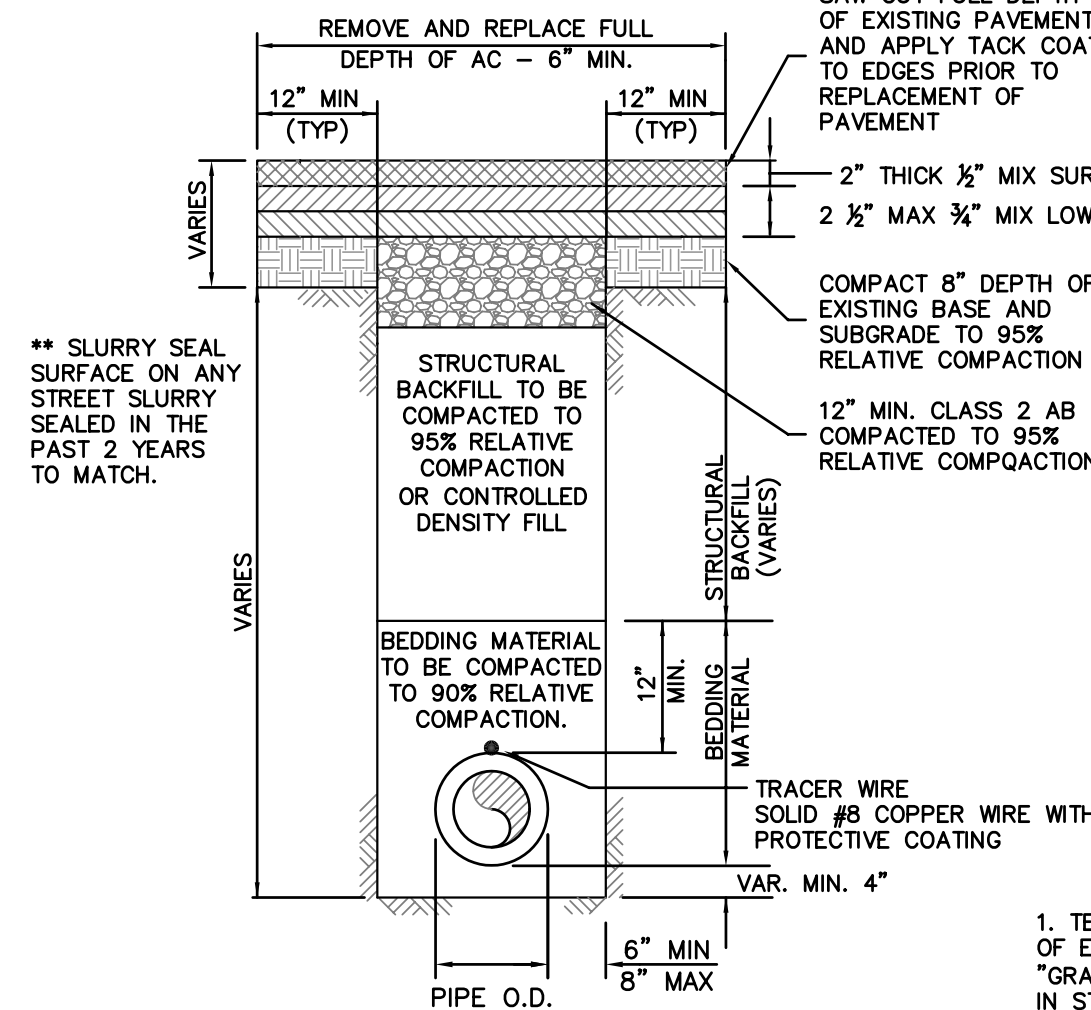
1. THE MIX DESIGN FOR CDF SHALL MEET THE FOLLOWING REQUIREMENTS:
CEMENT 50-100 LB/CU. YD
FLY ASH, CLASS F 10-2000 LB/CU. YD
FINE AGGREGATE 2600-3100 LB/CU.YD
WATER 325/580 LB/CU.YD
STRENGTH @ 28 DAY 50-100 PSI
2. STRUCTURAL BACKFILL MATERIAL: MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20 AND SIEVE GRADATION BY MATERIAL AS FOLLOWS:
SIEVE SIZE % PASSING SIEVE
75mm (3") 100
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 WHEEL TRACK. 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.



FULL DEPTH AC PAVEMENT, (18") MIN. BUT SHALL NOT BE LESS THAN EXISTING EXISTING PAVEMENT SECTION.

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

SAND SEAL ALL JOINTS WITH 1-FOOT WIDE SAND SEAL



FULL DEPTH AC PAVEMENT, 150mm(6") MIN. BUT SHALL NOT BE LESS THAN EXISTING EXISTING PAVEMENT SECTION.

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

CONTROL DENSITY FILL

THE MIX DESIGN FOR CDF SHALL MEET THE FOLLOWING REQUIREMENTS:

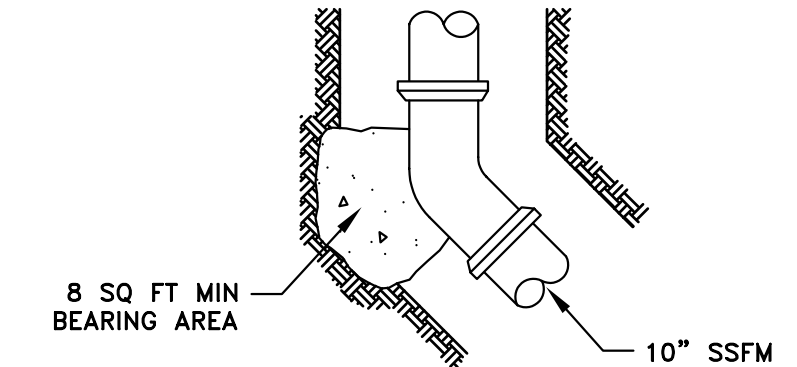
CEMENT	50-100 LB/CU. YD
FLY ASH, CLASS F	10-2000 LB/CU. YD
FINE AGGREGATE	2600-3100 LB/CU.YD
WATER	325/580 LB/CU.YD
STRENGTH @ 28 DAY	50-100 PSI

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.



NOTES:
CONCRETE SHALL BE CLASS B.

THRUST BLOCK

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:

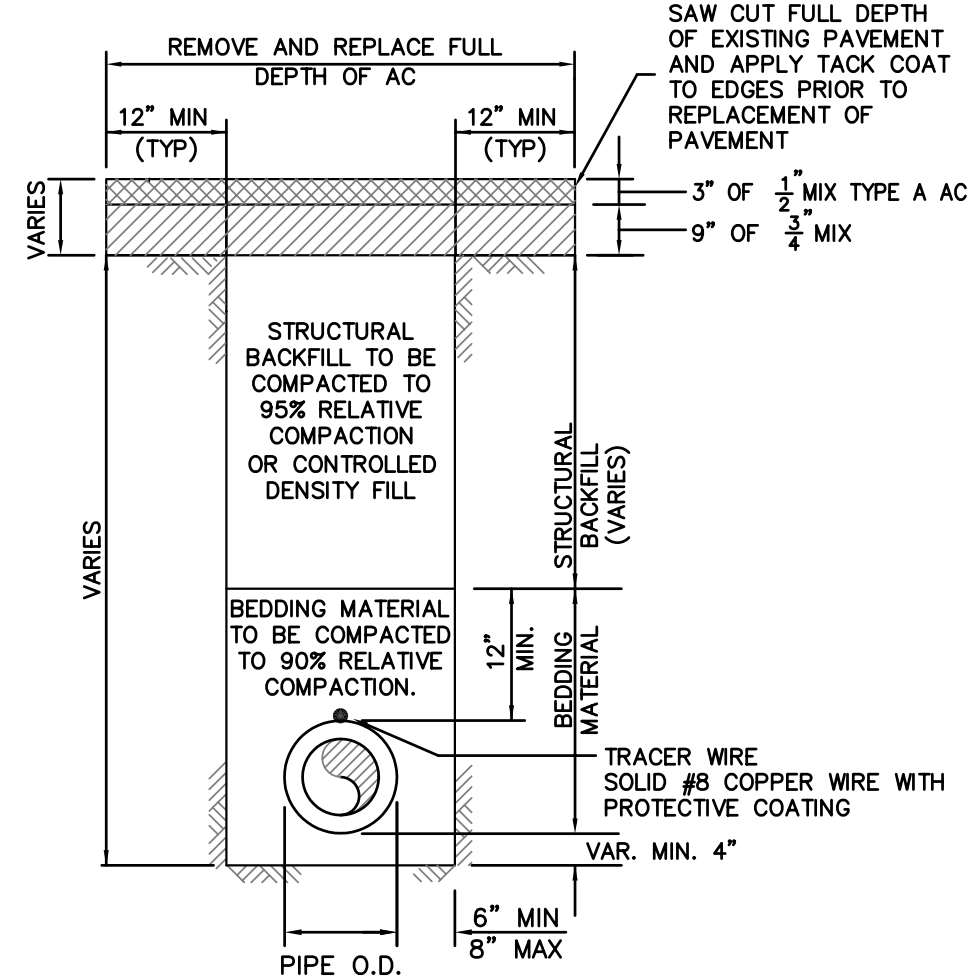
CEMENT	50-100 LB/CU. YD
FLY ASH, CLASS F	10-2000 LB/CU. YD
FINE AGGREGATE	2600-3100 LB/CU.YD
WATER	325/580 LB/CU.YD
STRENGTH @ 28 DAY	50-100 PSI

STRUCTURAL BACKFILL MATERIAL

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

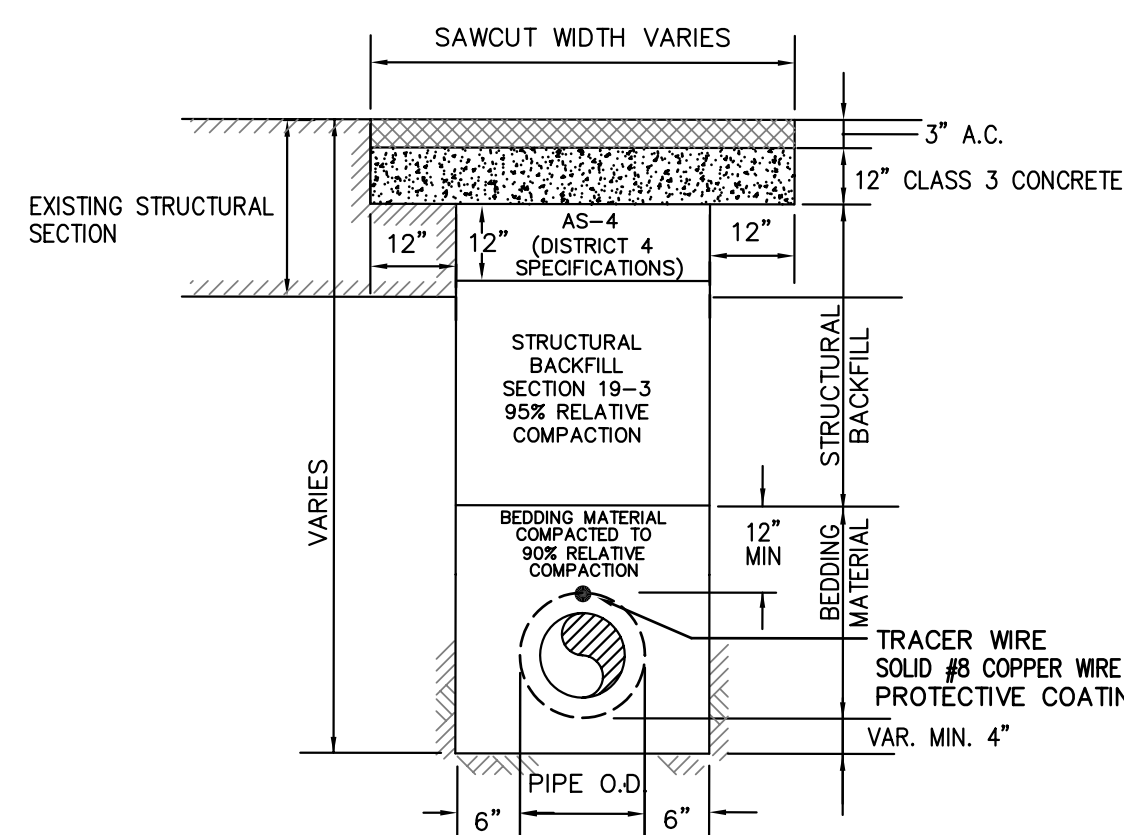
SIEVE SIZE	% PASSING SIEVE
75mm (3")	100
No. 4	35-100
No. 30	20-100

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.



FULL DEPTH AC PAVEMENT, AS SHOWN OR MATCH EXISTING, BUT SHALL NOT BE LESS THAN EXISTING EXISTING PAVEMENT SECTION.

UTILITY TRENCH-TOWN OF PORTOLA VALLEY-RIGHT OF WAY
(MODIFIED PER TOWN OF PORTOLA VALLEY STANDARDS)



NOTES:

1. COMPACTION TO BE AT 95% RELATIVE COMPACTION.
2. CONCRETE CAP MAY BE "RAPID SET" PCC.
3. ALL TRENCH WORK SUBJECT TO STATE REGULATIONS AND INSPECTION.
4. 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.
5. 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-CALTRANS-RIGHT OF WAY
(INTERSECTION OF EL CAMINO REAL AND ATHERTON AVE)

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

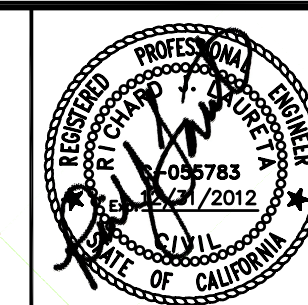
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SCALE:	AS NOTED		
DESIGNED:	RJL		
DRAWN:	JJF		
CHECKED:	RJL		
PROJ. ENGR:	RJL		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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WEST BAY
SANITARY DISTRICT
SAN MATEO COUNTY

PROJECT No. 1756.7



CAPITAL IMPROVEMENT PROJECT 2010-2011

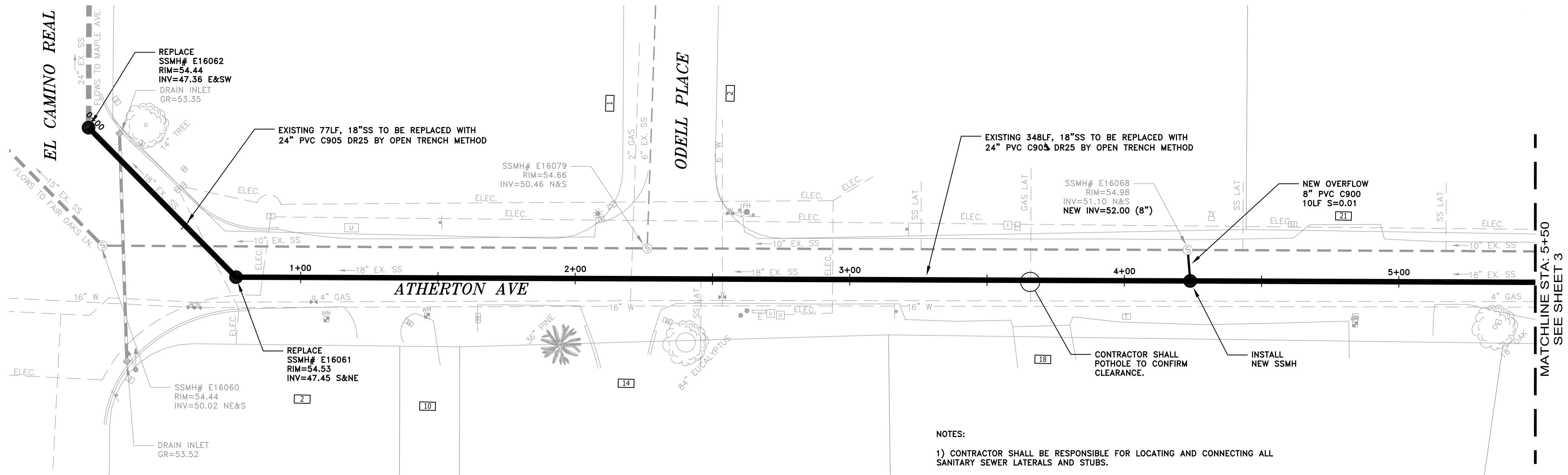
DETAIL SHEET

SAN MATEO COUNTY, CALIFORNIA

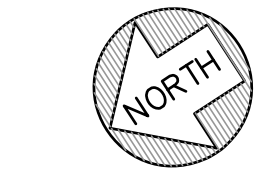
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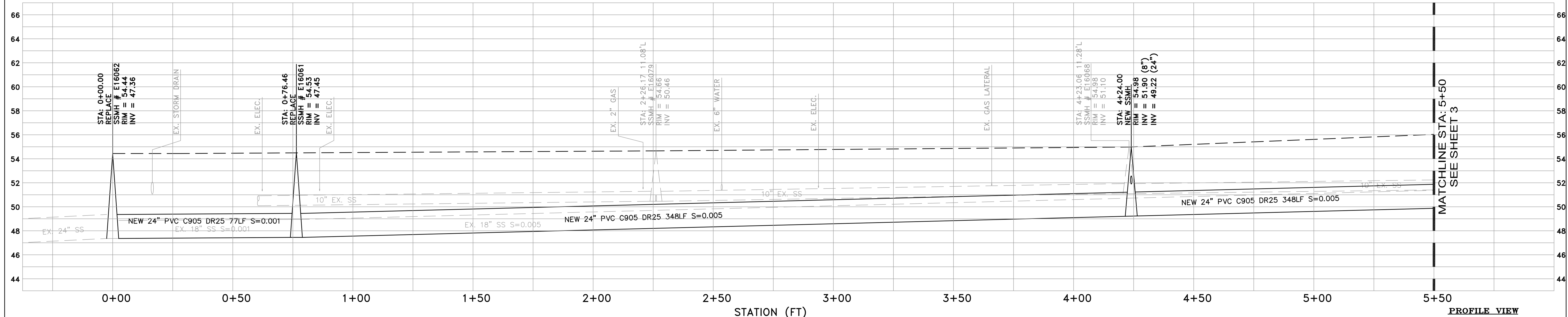
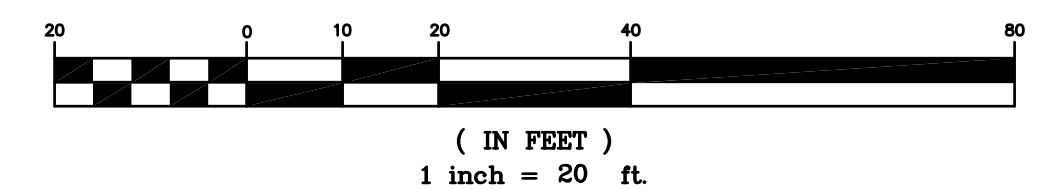
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- NOTES:
- 1) CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND CONNECTING ALL SANITARY SEWER LATERALS AND STUBS.
 - 2) CONTRACTOR SHALL BE RESPONSIBLE FOR THE UNINTERRUPTION OF SEWER LATERAL SERVICE FOR ALL PROPERTIES. CONTRACTOR SHALL SUBMIT BYPASS 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) CONTRACTOR SHALL POTHOLE ALL ELECTRICAL, GAS, AND WATER MAINS TO CONFIRM PROPER CLEARANCE.



GRAPHIC SCALE



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

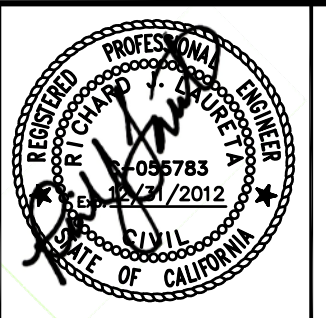
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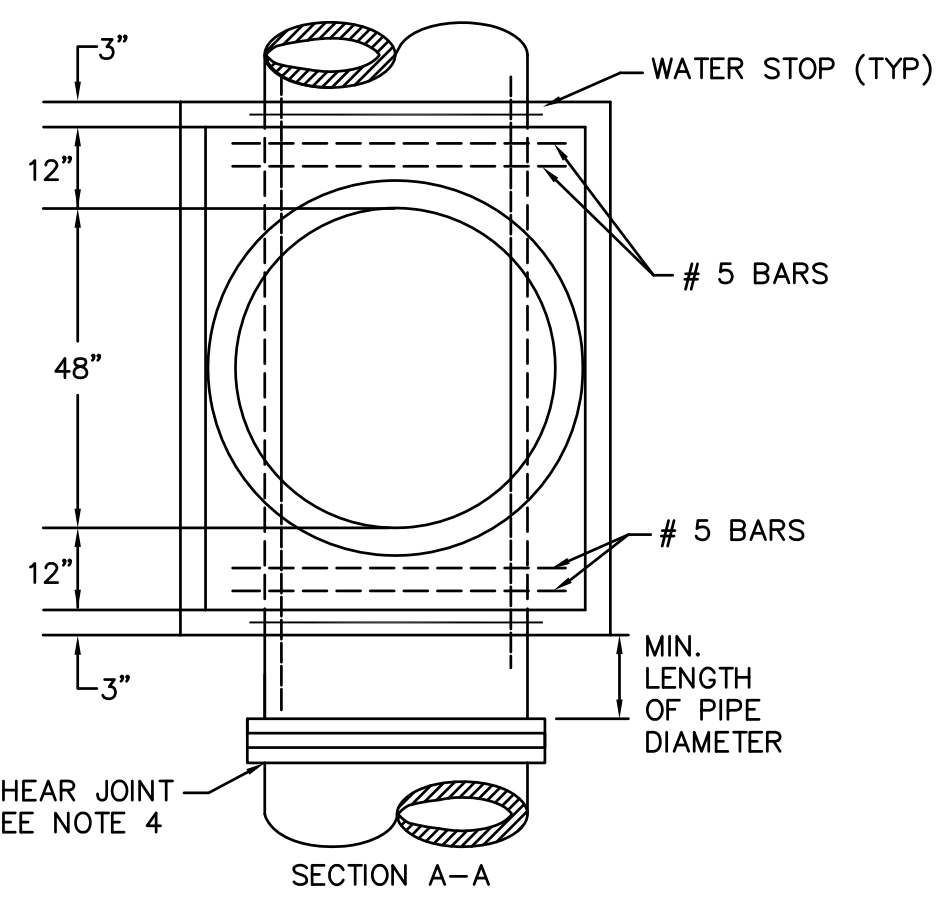
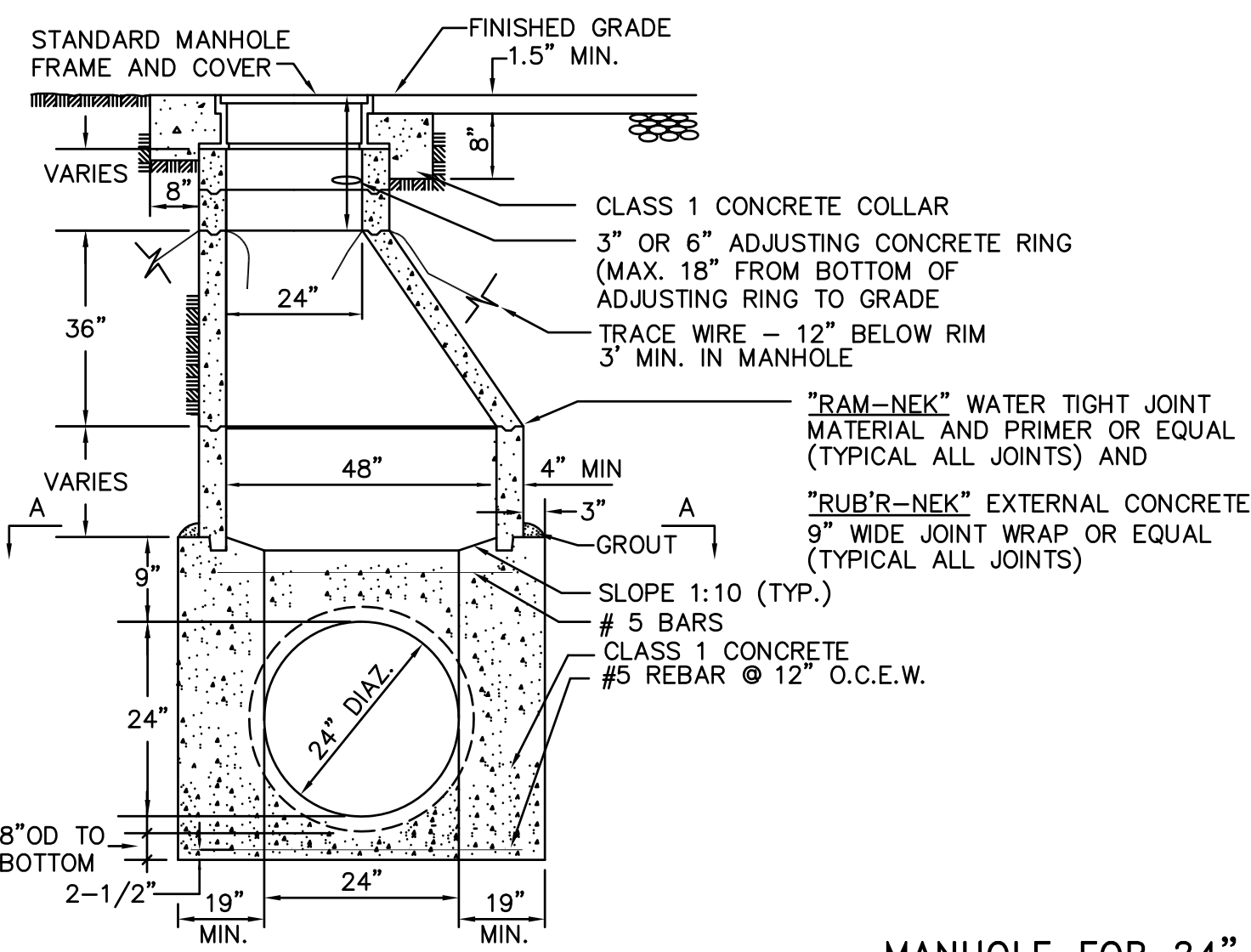
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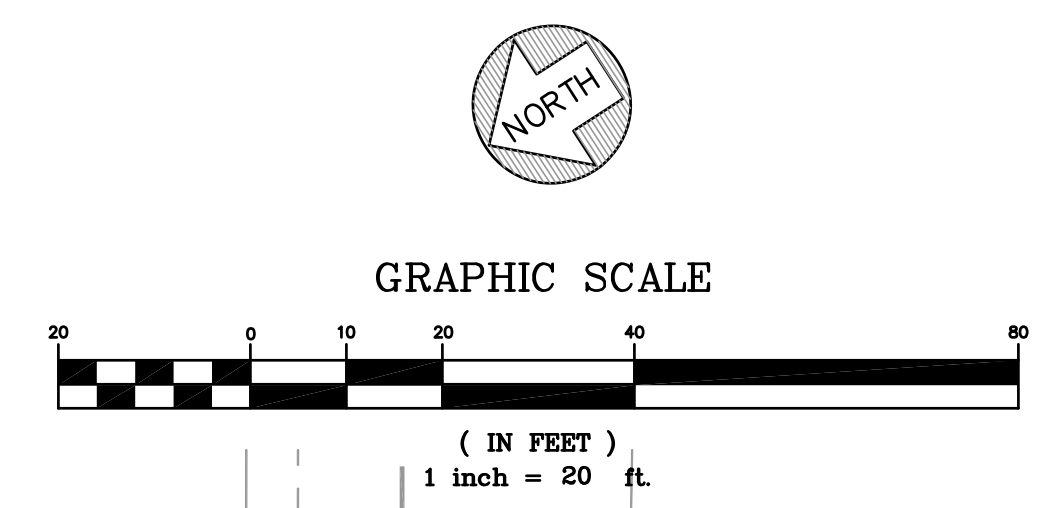


CAPITAL IMPROVEMENT PROJECT 2010-2011
PLAN AND PROFILE
ATHERTON AVE
STA. 0+00 - 5+50
ATHERTON, CALIFORNIA

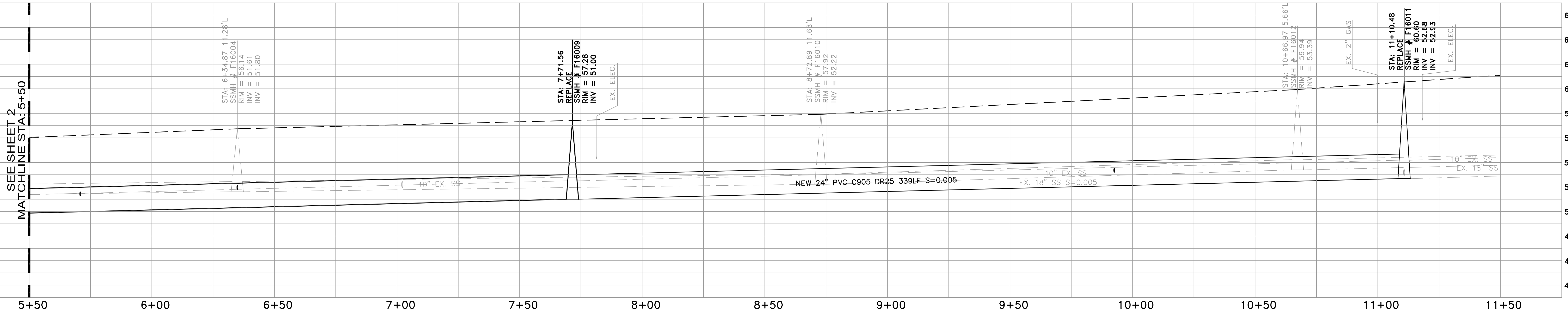
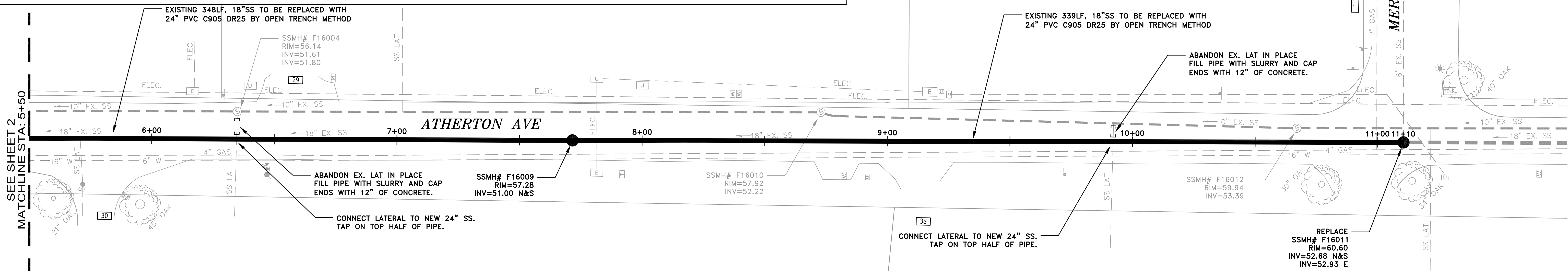
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- NOTES:
- 1) MANHOLE SHALL BE VACUUM TESTED.
 - 2) ECCENTRIC CONE SHALL BE POSITIONED IN SUCH A MANNER OVER CENTER OF PIPE FOR INSTALLATION OF FLOW METER SENSOR BRACKET.
 - 3) TRACE WIRE SHALL BE SOLID AND COATED 8 GAUGE COPPER WIRE PLACED 12" BELOW RIM WITH 3' COILED UP IN MANHOLE.
 - 4) SHEAR JOINT SHALL BE INSTALLED ON ALL INCOMING AND OUTGOING PIPES A DISTANCE OF ONE PIPE DIAMETER AWAY FROM THE OUTSIDE OF THE MANHOLE.



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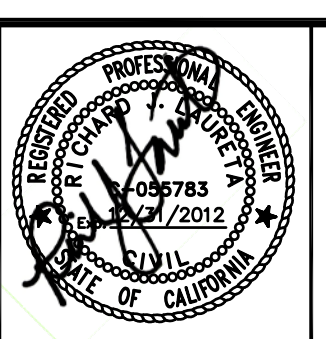


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