

WEST BAY SANITARY DISTRICT

SAN MATEO COUNTY CALIFORNIA

30" SANITARY SEWER REHABILITATION PROJECT

REHABILITATION OF THE 30" SANITARY SEWER MAIN IN MENLO PARK

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 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 SERVING 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.

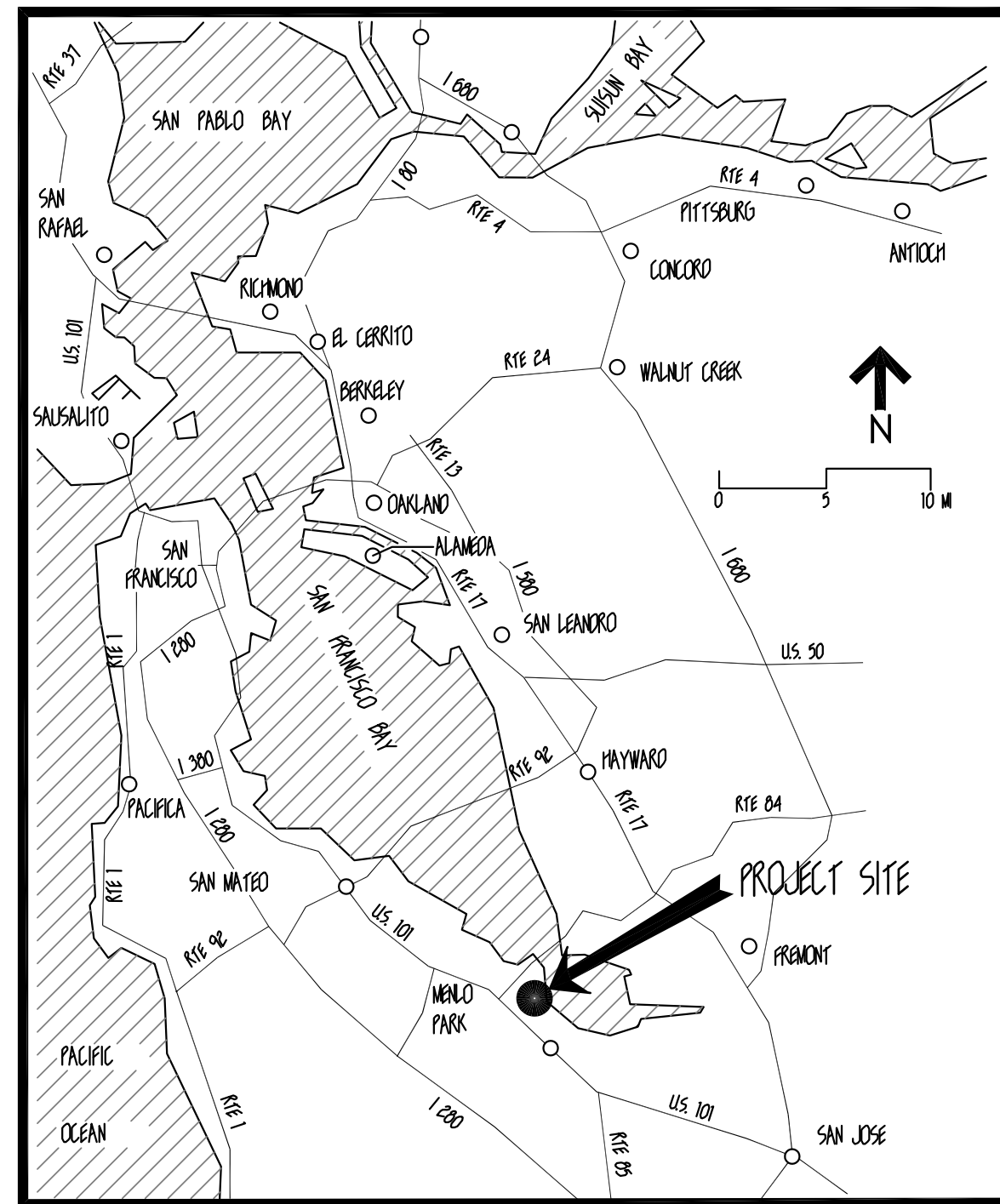
Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property;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

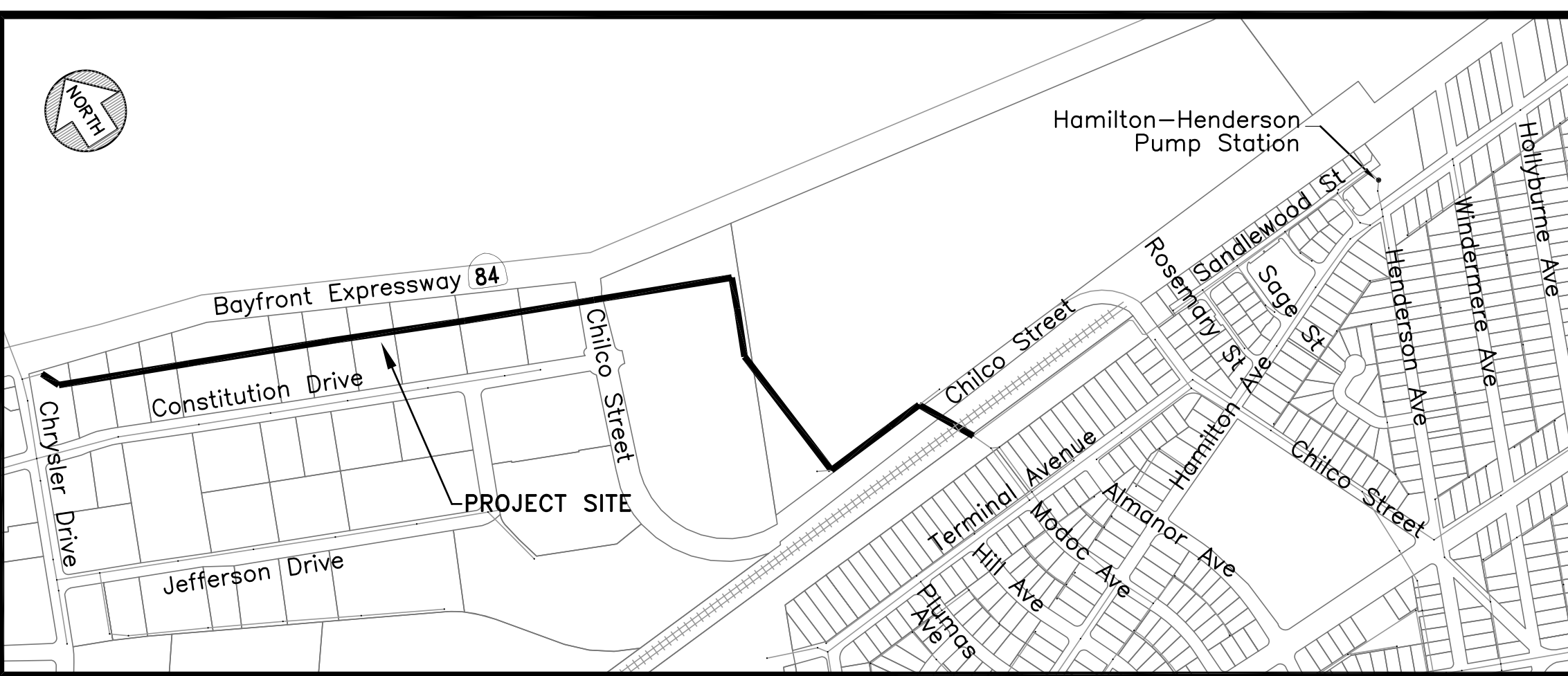
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EDWARD P. MORITZ	TREASURER
FRAN DEHN	DIRECTOR
ROY THIELE-SARDIÑA	DIRECTOR

LEGEND

	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



REGIONAL LOCATION NTS



CHILCO ST, MENLO PARK

VICINITY LOCATION NTS

INDEX OF DRAWINGS

SHEET #	DESCRIPTION
1	COVER SHEET
2	SYSTEM MAP - TRIBUTARY AREA
3	30" REHABILITATION PLAN STA: 0+00 - 11+00
4	30" REHABILITATION PLAN STA: 11+00 - 23+00
5	30" REHABILITATION PLAN STA: 23+00 - 29+00
6	30" REHABILITATION PLAN STA: 29+00 - 37+00
7	30" REHABILITATION PLAN STA: 37+00 - 40+73.11
8	DETAIL SHEET

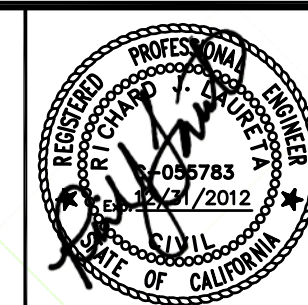
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DRAWN:	JJF	5/10/12	BID SET
CHECKED:	RJL		
PROJ. ENGR:	RJL		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D

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WEST BAY
 SANITARY DISTRICT
 SAN MATEO COUNTY

PROJECT No. 1757.1

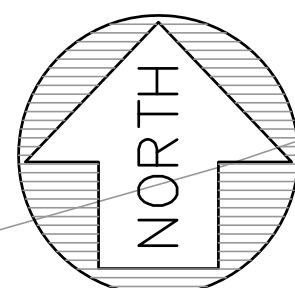


30" SANITARY SEWER REHABILITATION PROJECT

COVER SHEET

MENLO PARK, CALIFORNIA

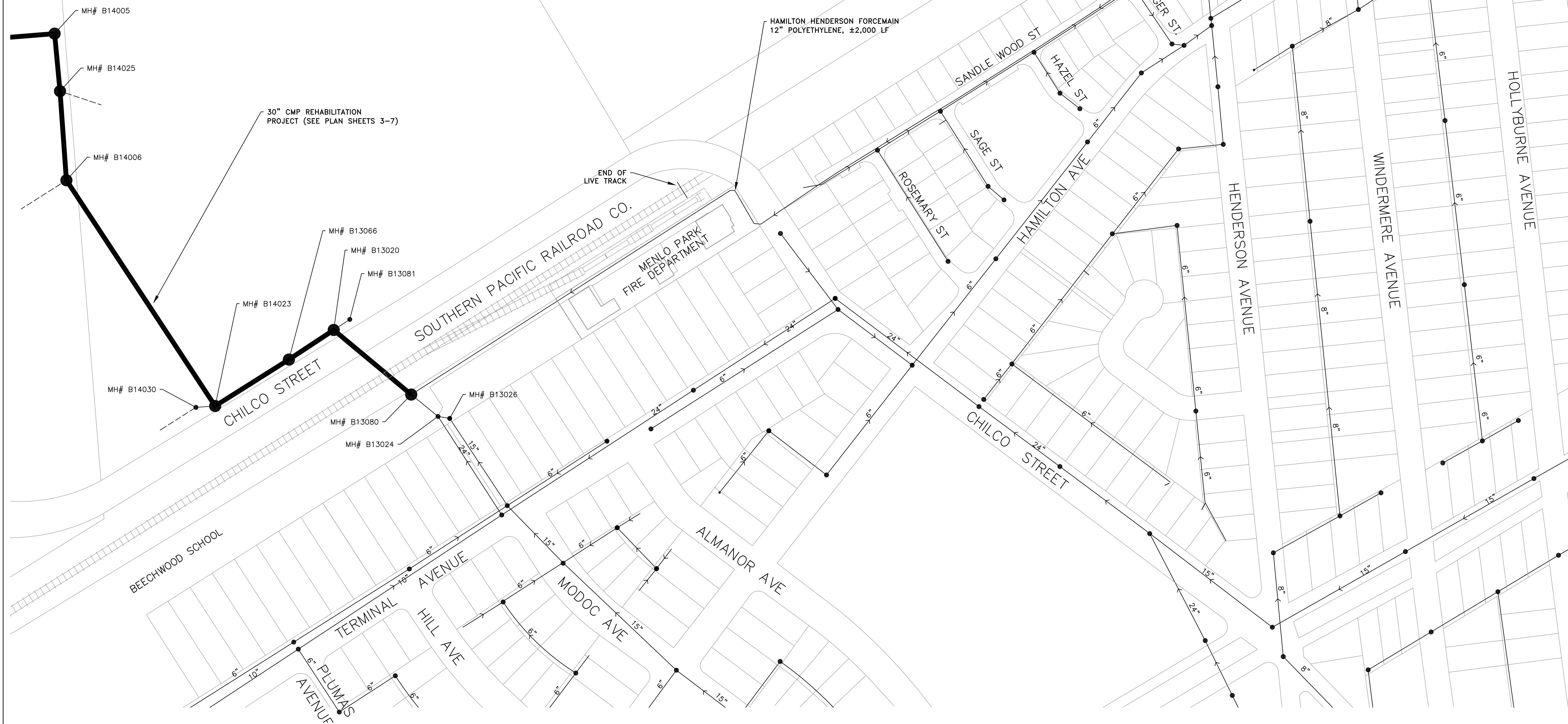
SHEET
1
 OF 8 SHEETS
 JOB NO.
1059



GRAPHIC SCALE



(IN FEET)
1 inch = 100 ft.

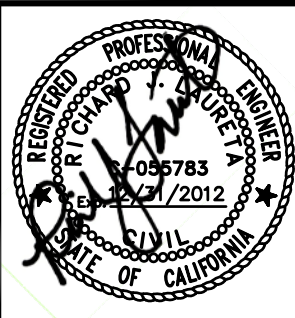


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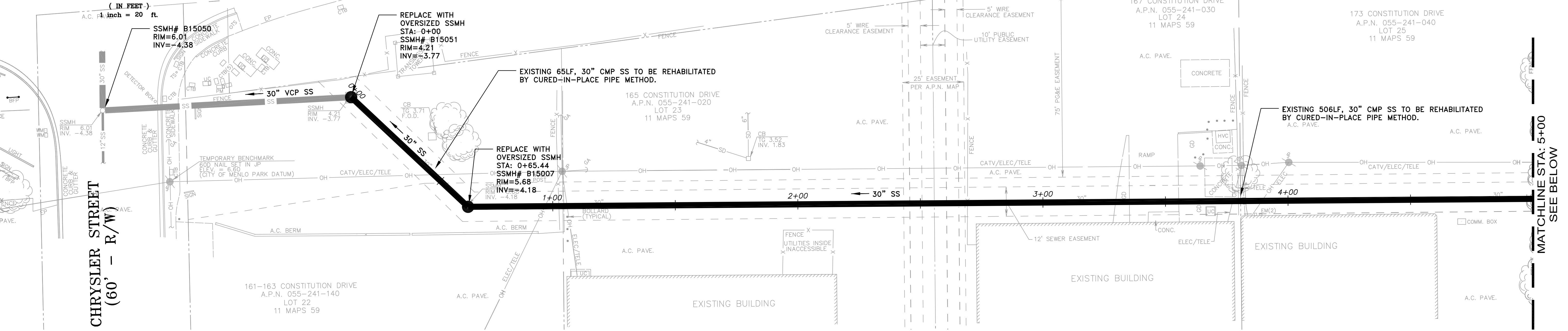
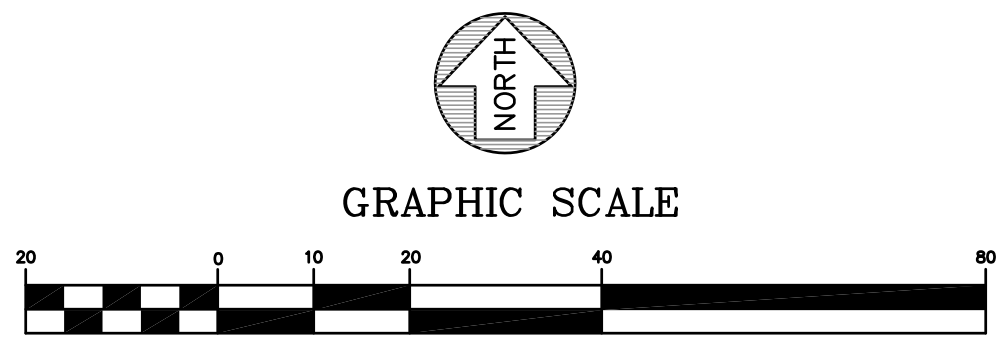
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WEST BAY
SANITARY DISTRICT
SAN MATEO COUNTY
PROJECT No. 1757.1



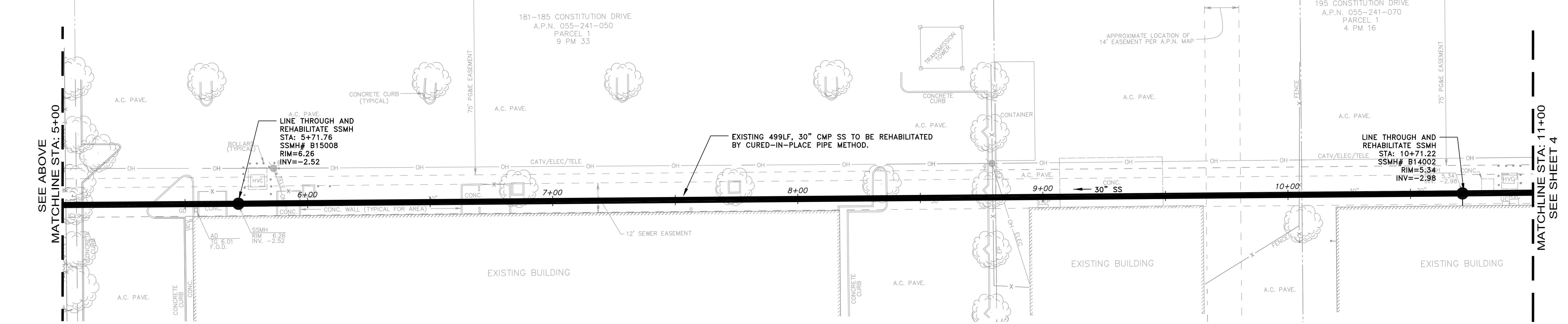
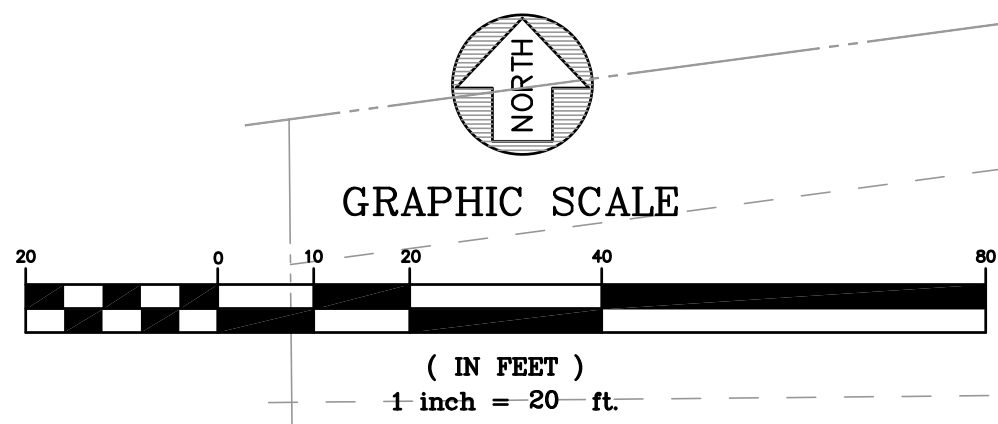
30" SANITARY SEWER REHABILITATION PROJECT
SYSTEM MAP
TRIBUTARY AREA
MENLO PARK, CALIFORNIA

SHEET
2
OF 8 SHEETS
JOB NO.
1059



NOTES:

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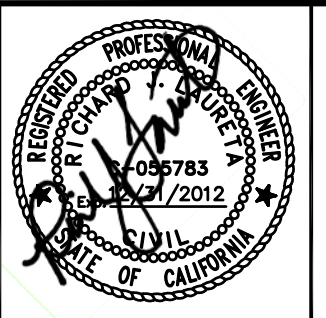


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 SANITARY DISTRICT
 SAN MATEO COUNTY
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30" SANITARY SEWER REHABILITATION PROJECT
 REHABILITATION PLAN SHEET
 STA: 0+00 - 11+00
 MENLO PARK, CALIFORNIA

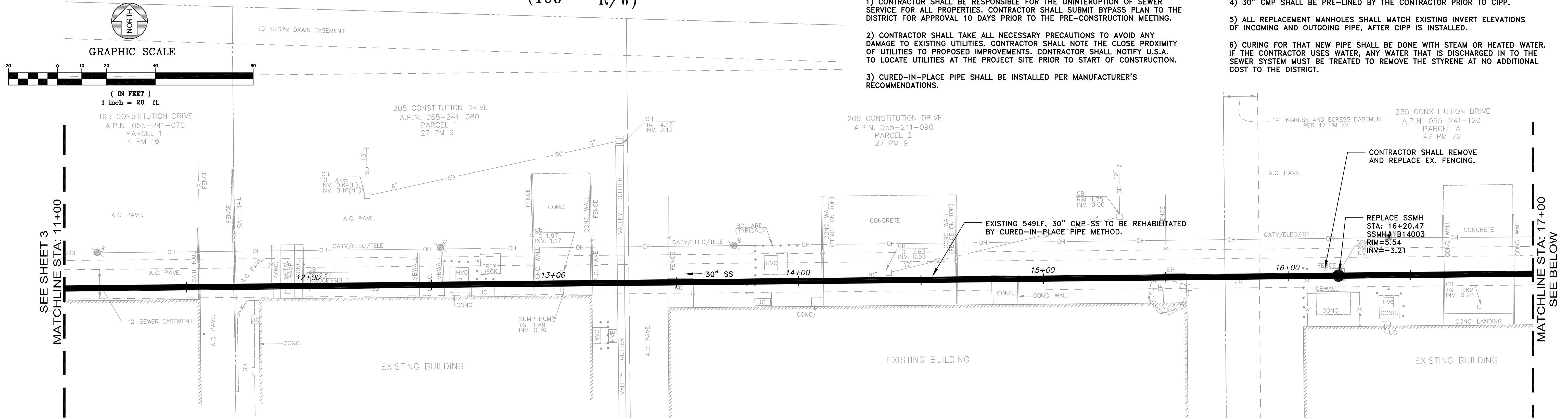
SHEET
3
 OF 8 SHEETS
 JOB NO.
1059

**BAYFRONT EXPRESSWAY STATE HIGHWAY 84
(100' - R/W)**

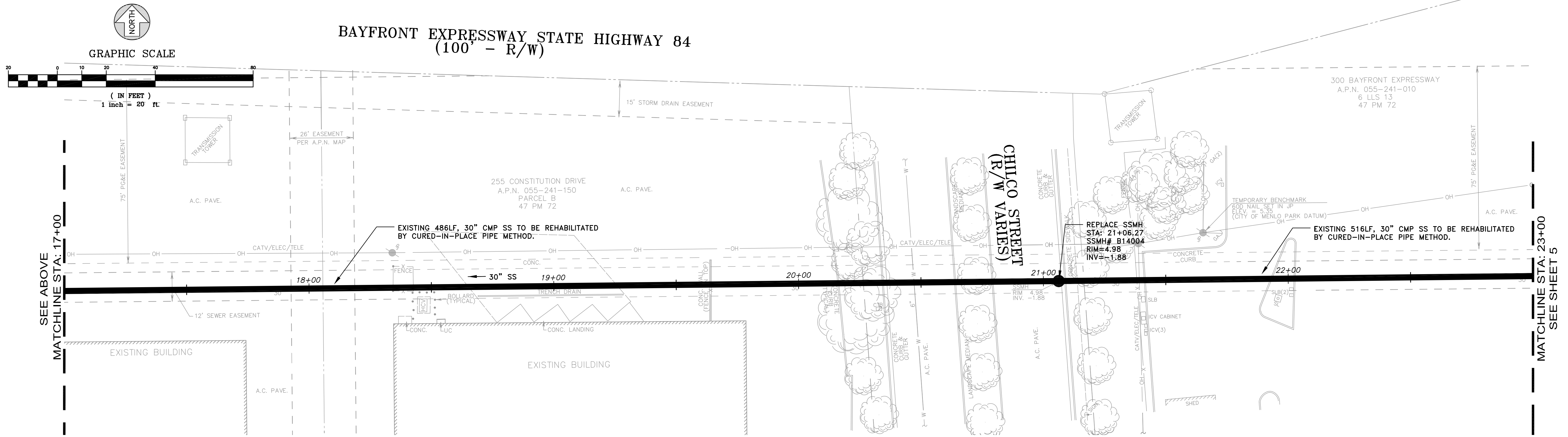
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**BAYFRONT EXPRESSWAY STATE HIGHWAY 84
(100' - R/W)**



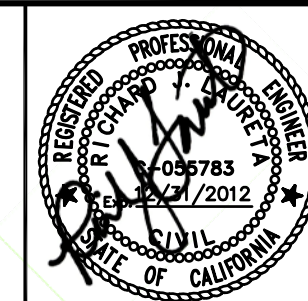
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DRAWN:	JJF	5/10/12	BID SET	
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WEST BAY
SANITARY DISTRICT
SAN MATEO COUNTY

PROJECT No. 1757.1



30" SANITARY SEWER REHABILITATION PROJECT
REHABILITATION PLAN SHEET
STA: 11+00 - 23+00
MENLO PARK, CALIFORNIA

SHEET
4
OF 8 SHEETS
JOB NO.
1059

300 BAYFRONT EXPRESSWAY
A.P.N. 055-241-010
6 LLS 13
47 PM 72

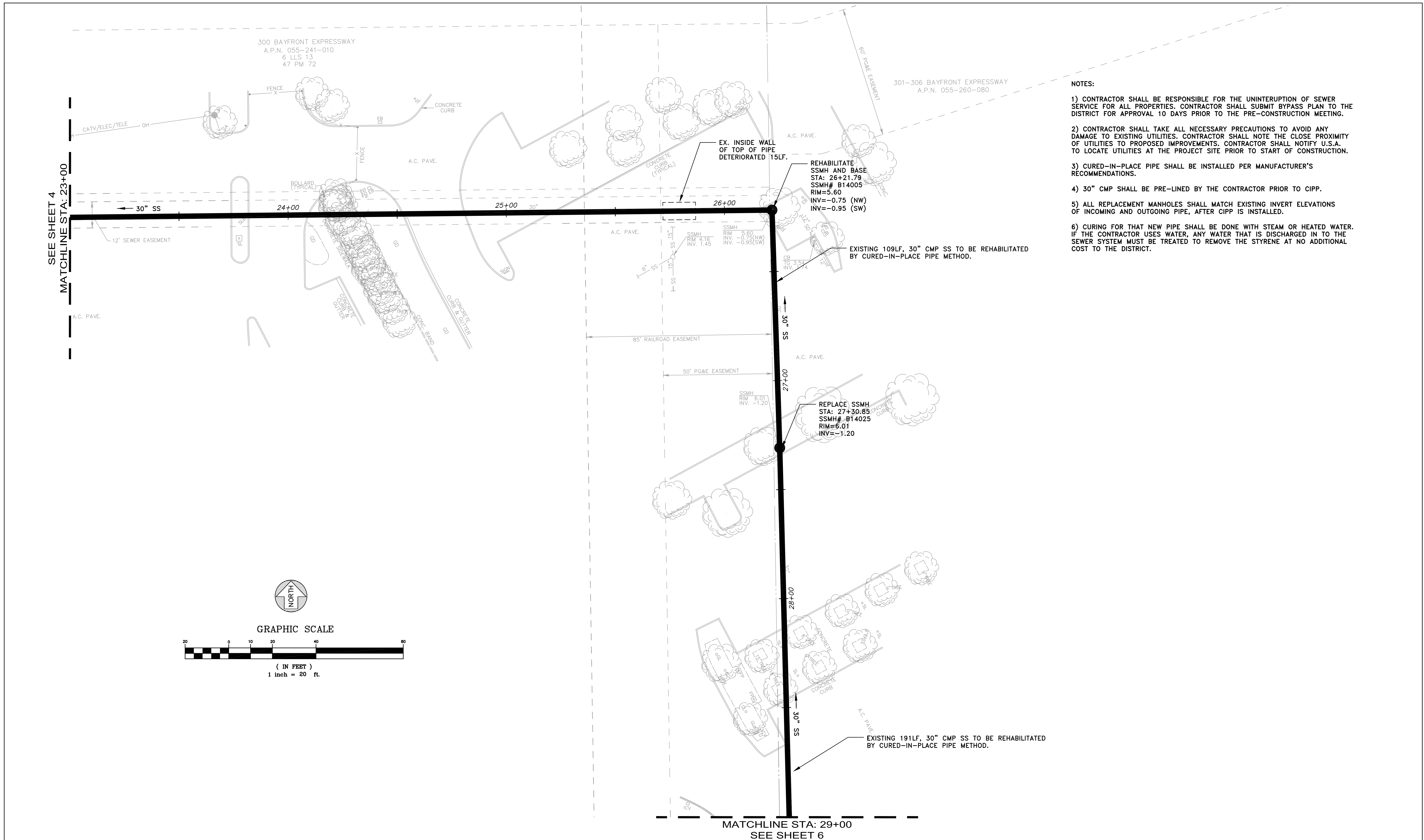
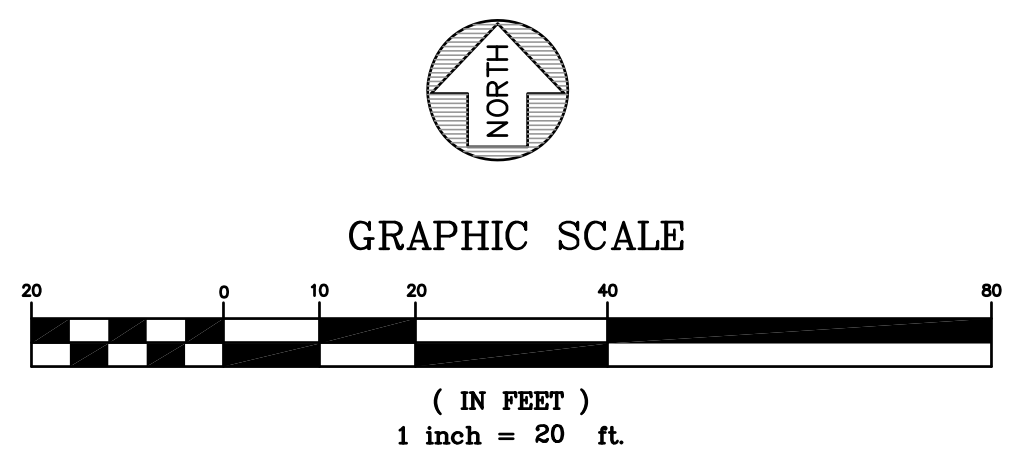
301-306 BAYFRONT EXPRESSWAY
A.P.N. 055-260-080

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SEE SHEET 4
MATCHLINE STA: 23+00

MATCHLINE STA: 29+00
SEE SHEET 6

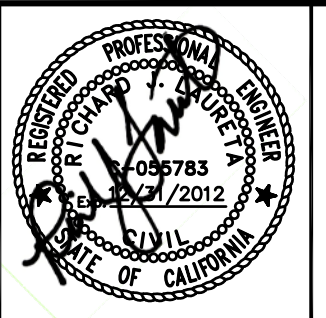


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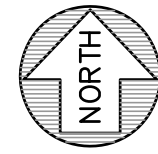
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30" SANITARY SEWER REHABILITATION PROJECT
REHABILITATION PLAN SHEET
STA: 23+00 - 29+00
MENLO PARK, CALIFORNIA

SHEET
5
OF 8 SHEETS
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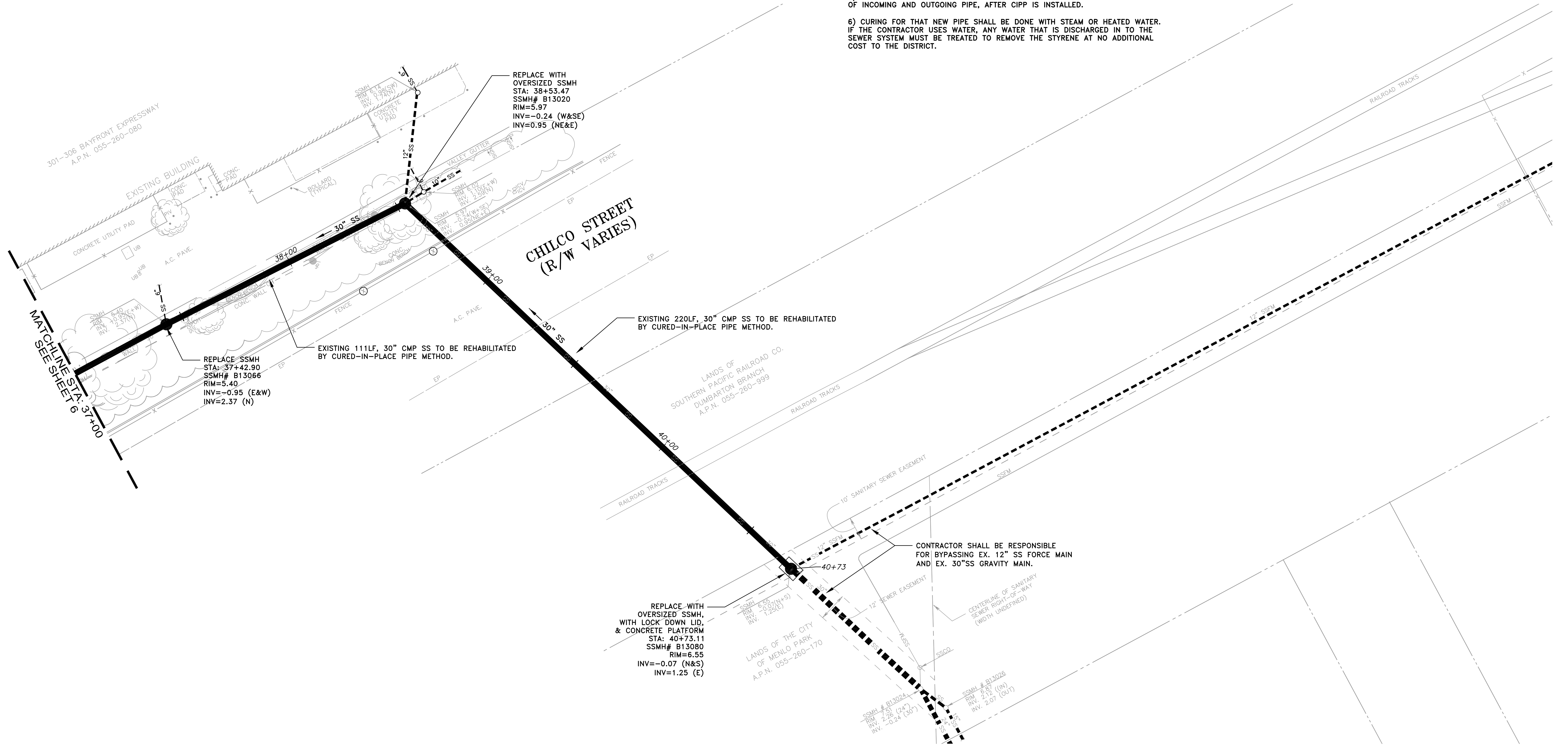
GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

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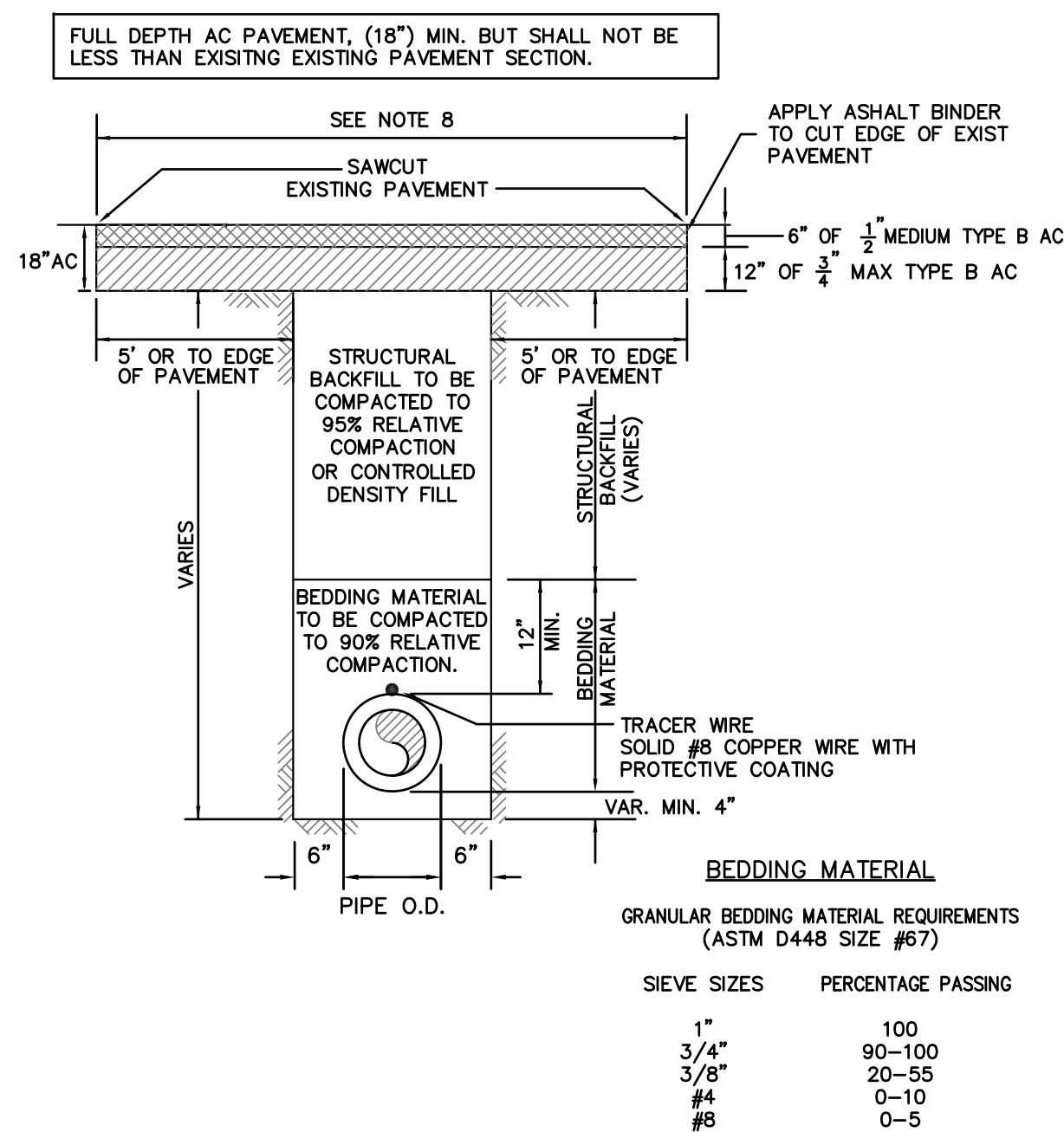
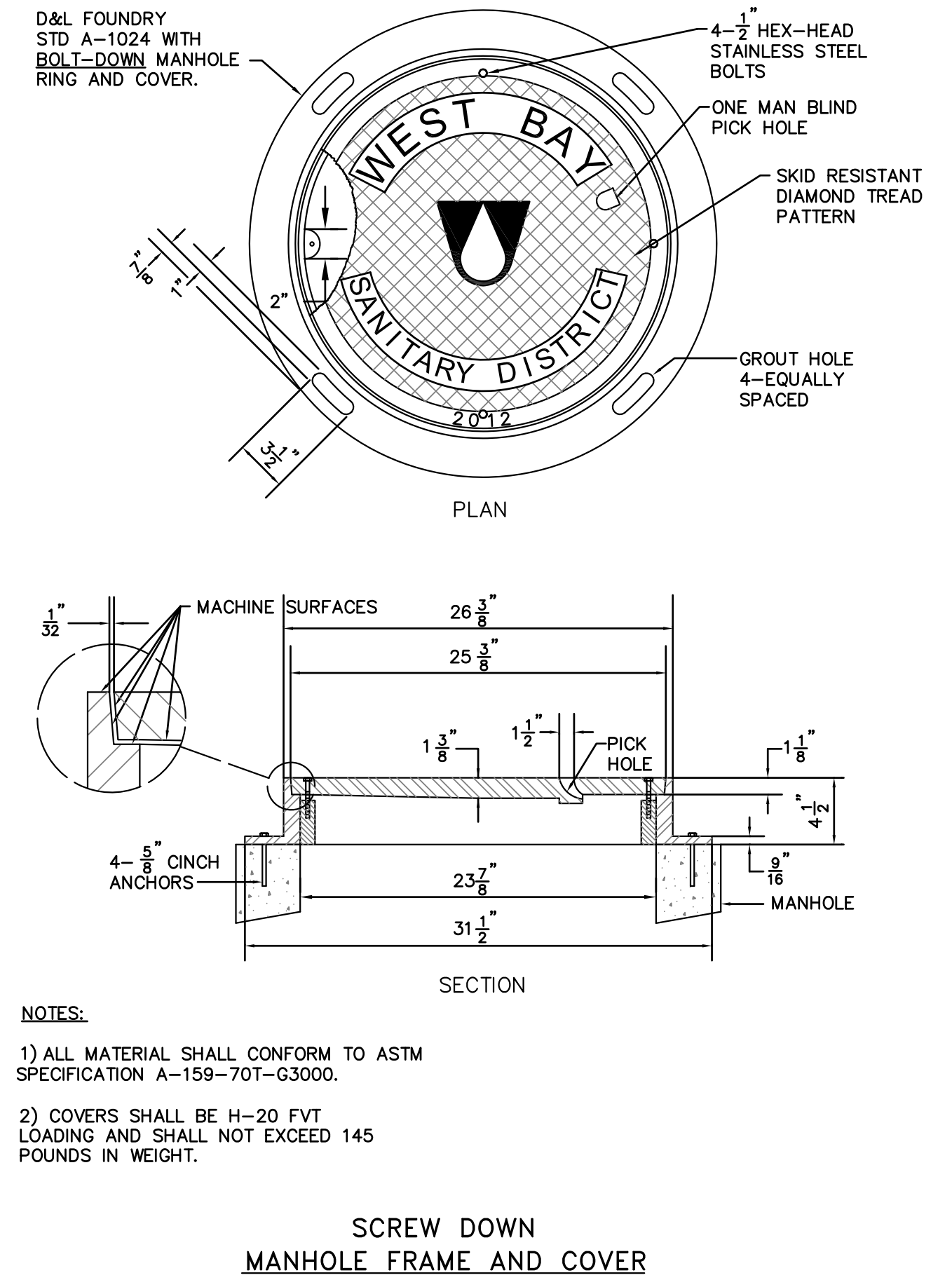
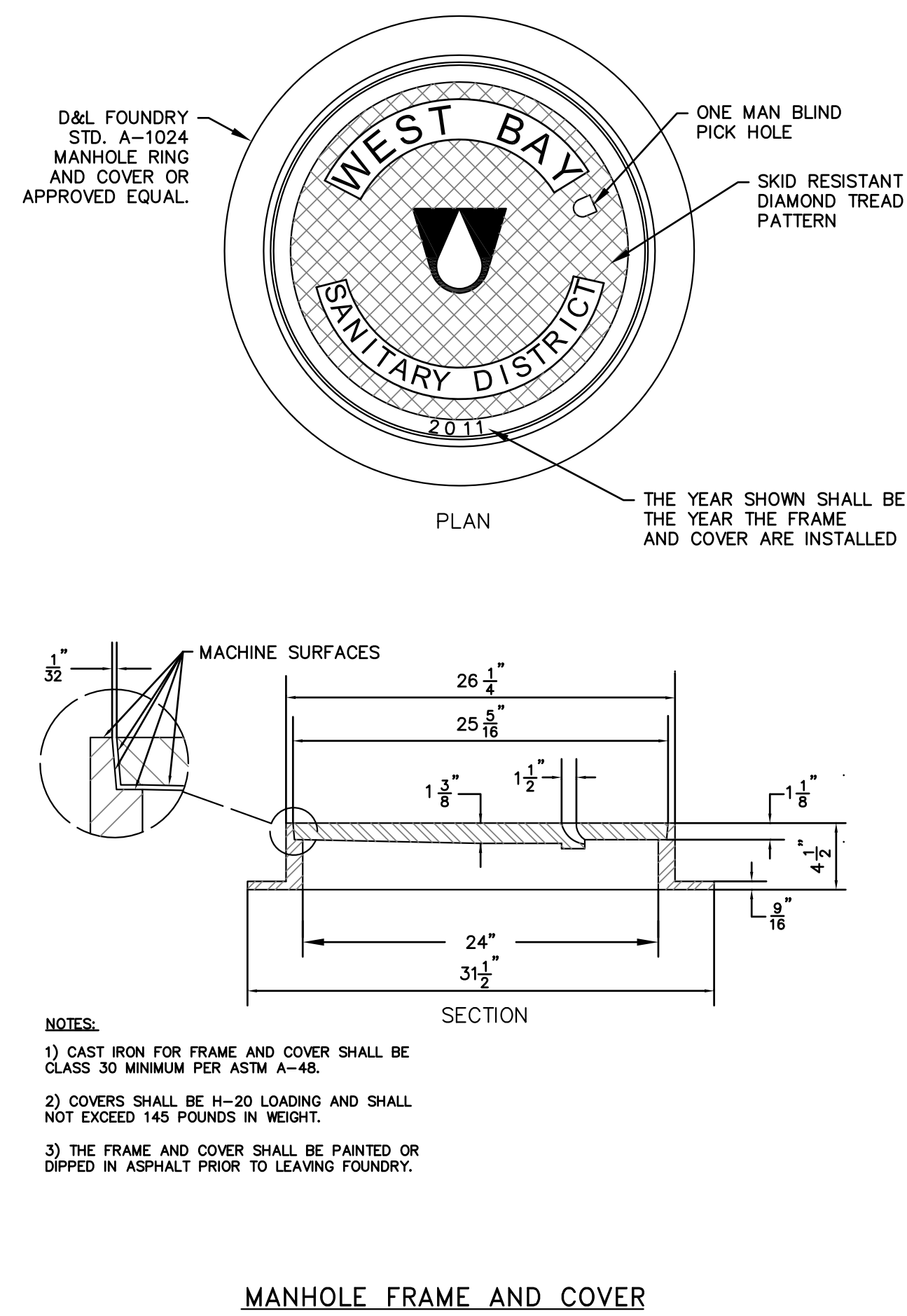
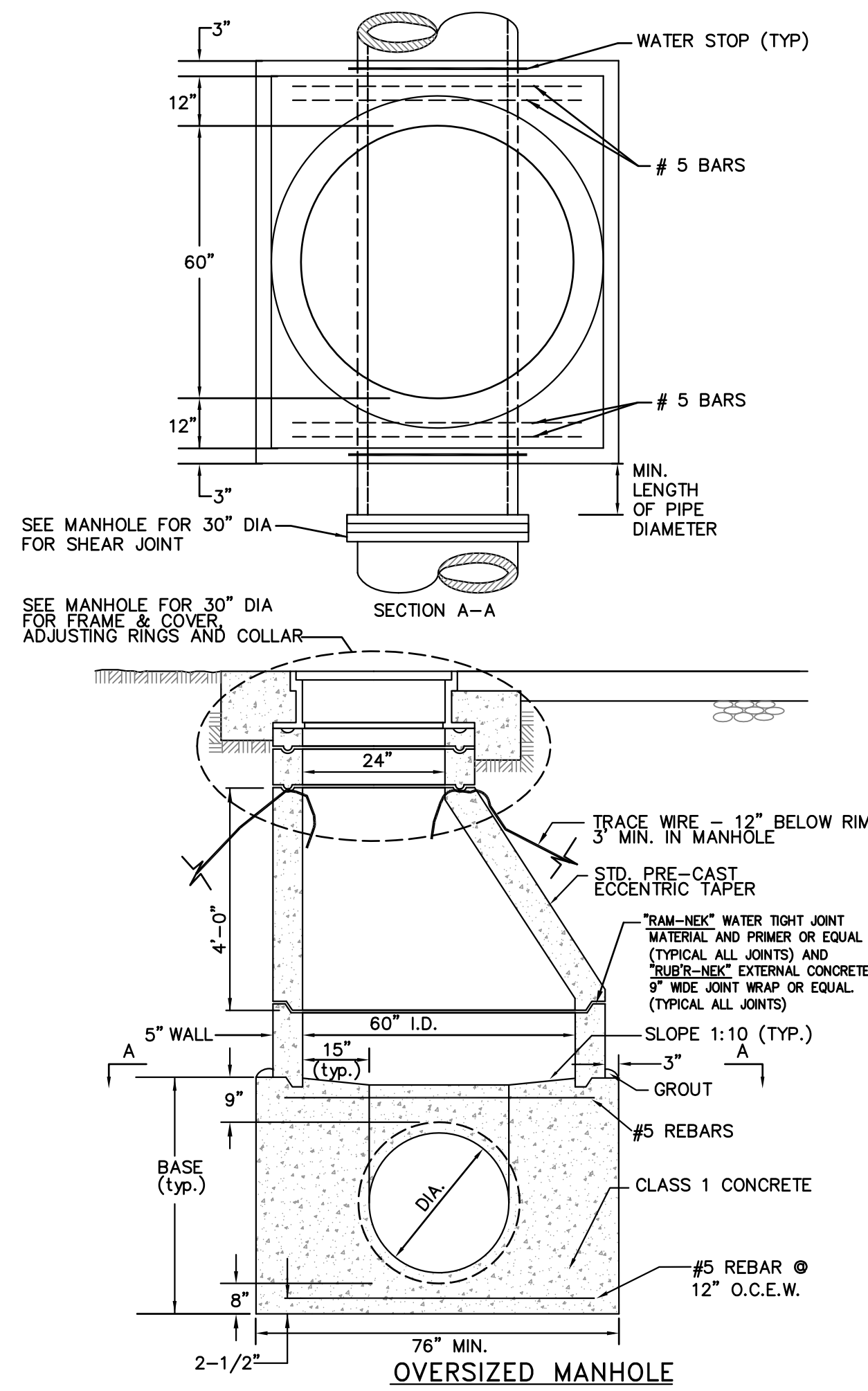
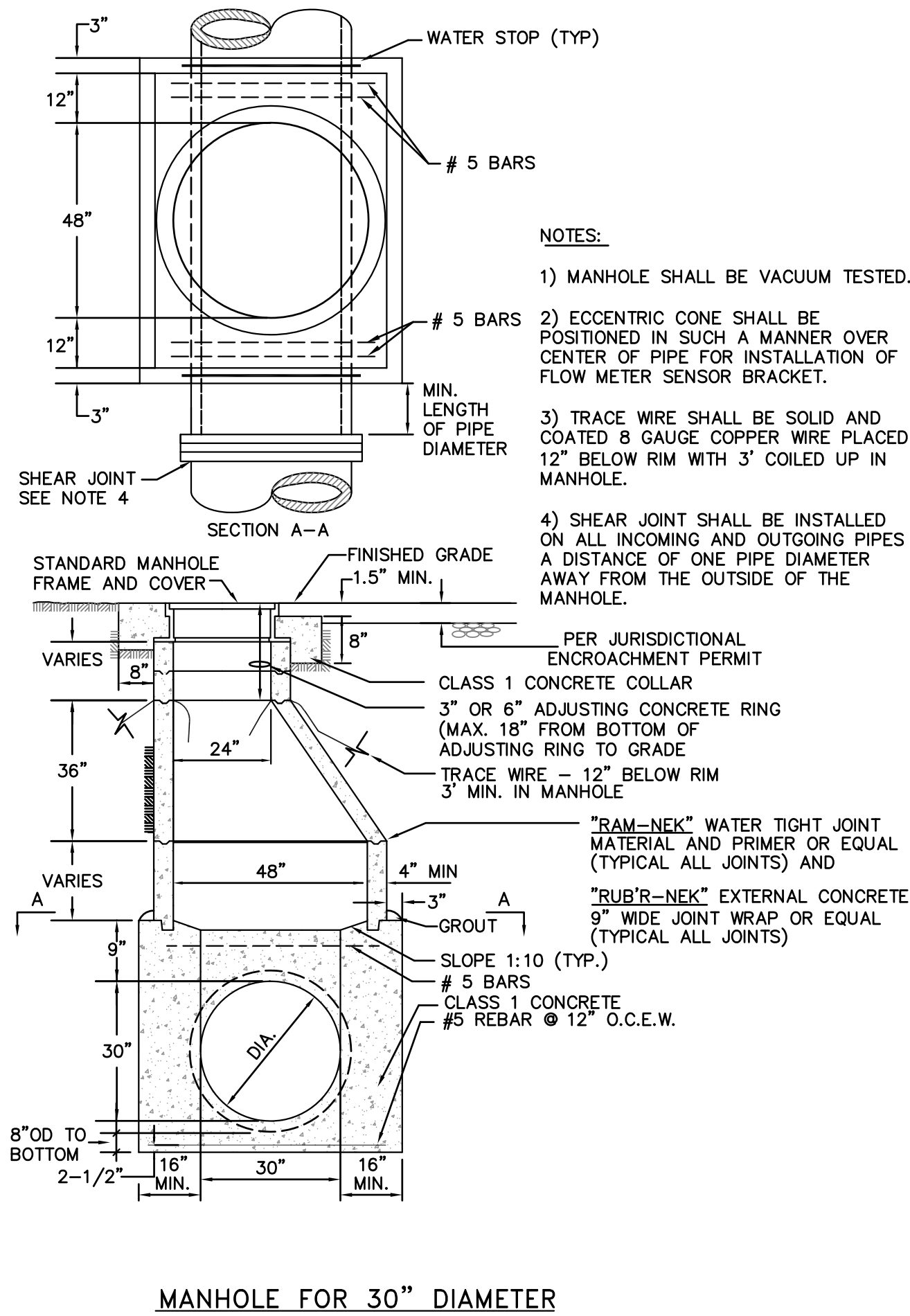
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SAN MATEO COUNTY

PROJECT No. 1757.1

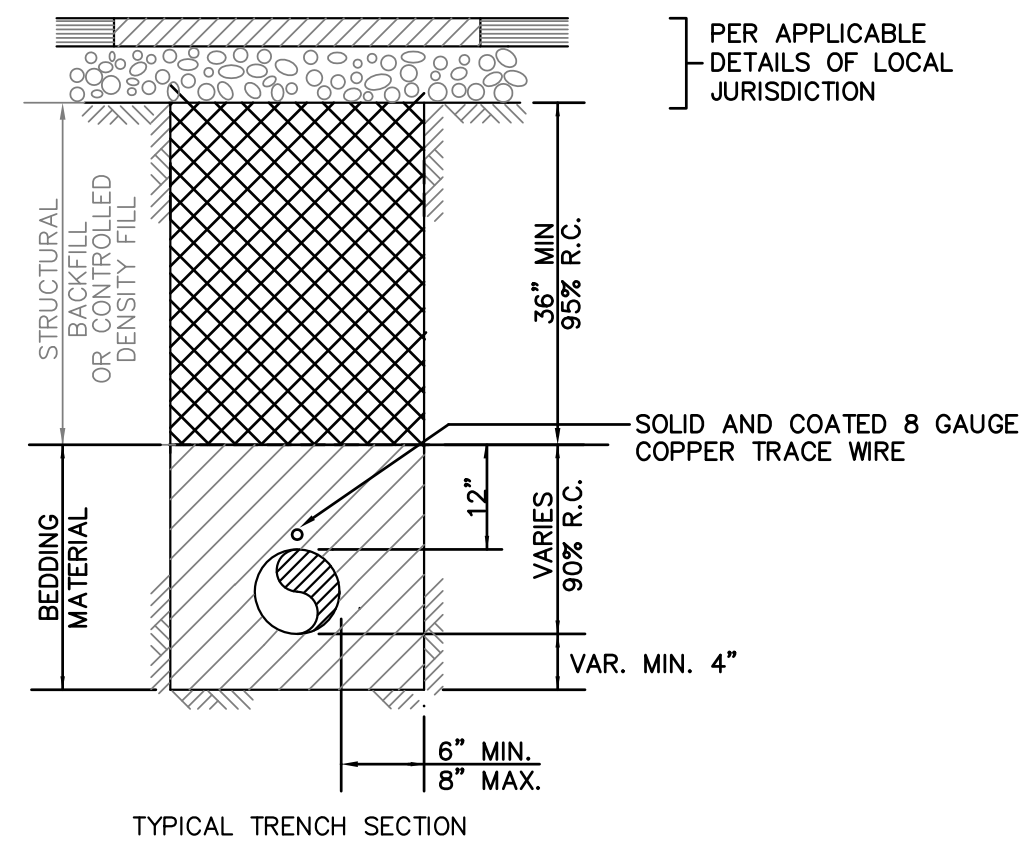


30" SANITARY SEWER REHABILITATION PROJECT
REHABILITATION PLAN SHEET
STA. 37+00 - 40+73.11
MENLO PARK, CALIFORNIA

SHEET
7
OF 8 SHEETS
JOB NO.
1059

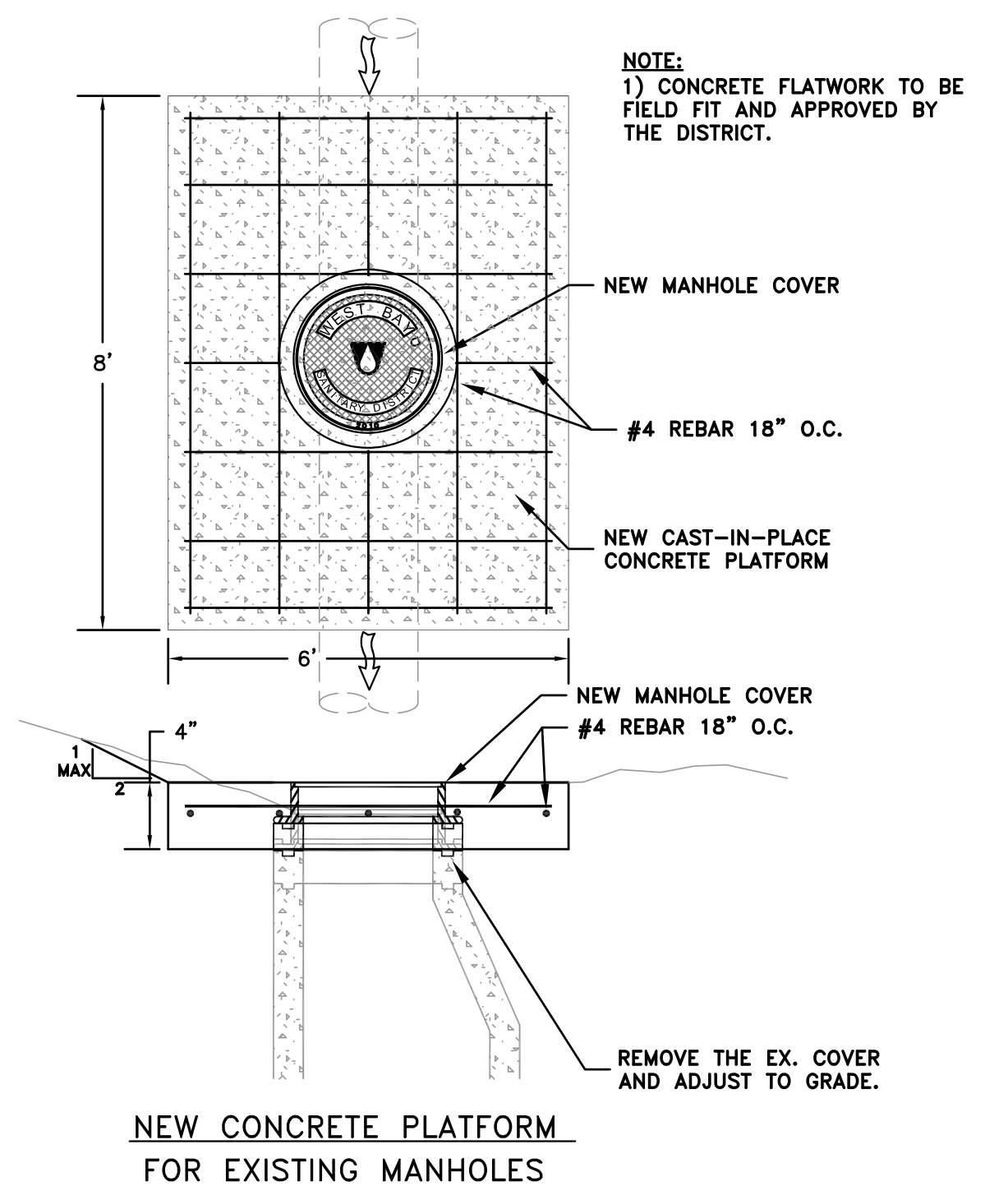
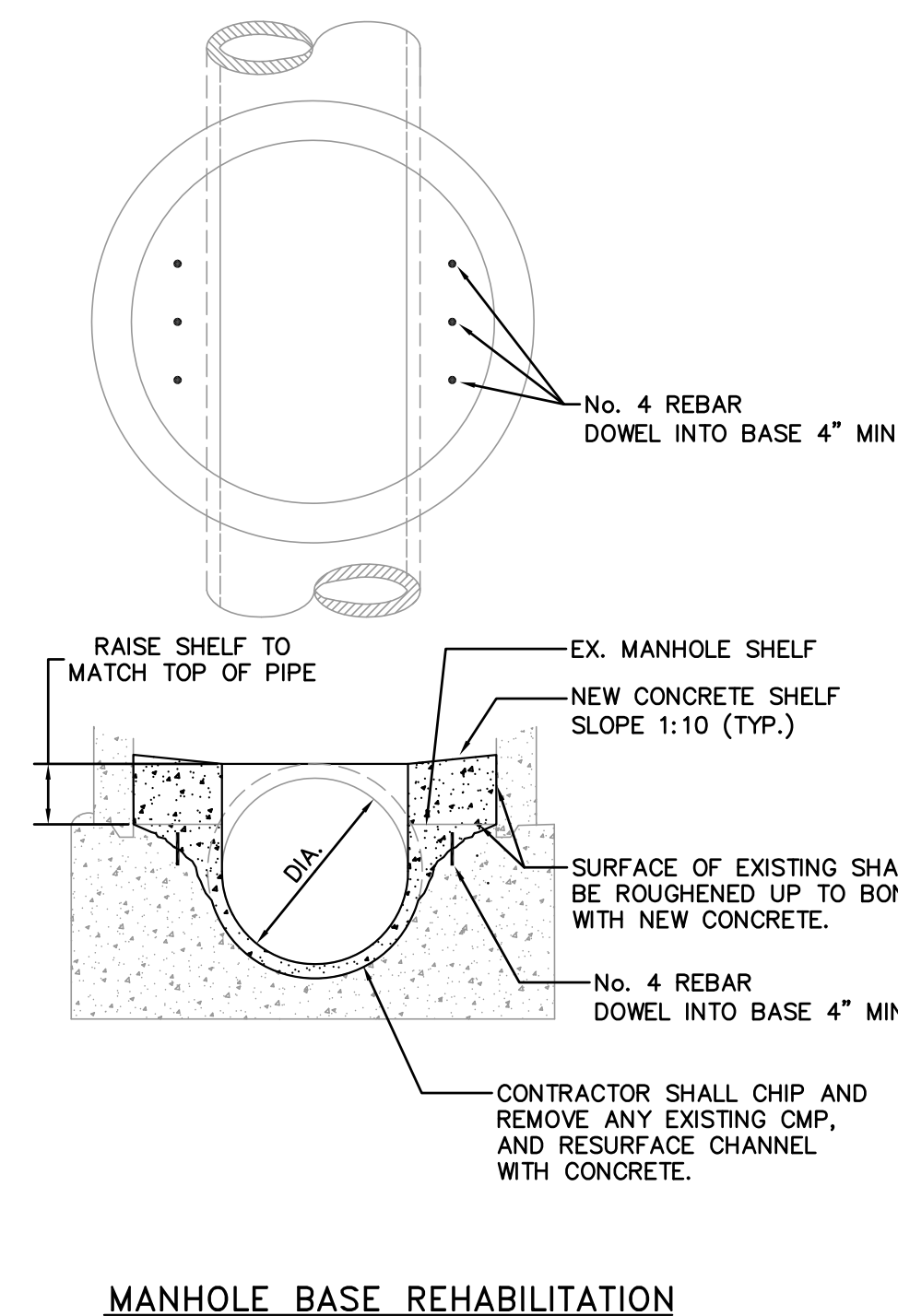


- NOTE:**
1. THE MIX DESIGN FOR CDF SHALL MEET THE FOLLOWING REQUIREMENTS:
 CEMENT 50-100 LB/CU. YD
 FLY ASH, CLASS F 10-2000 LB/CU. YD
 FINE AGGREGATE 2600-3100 LB/CU.YD
 WATER 325/580 LB/CU.YD
 STRENGTH @ 28 DAY 50-100 PSI
 2. STRUCTURAL BACKFILL MATERIAL: MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 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 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 "GRANITPATCH", "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.



BEDDING MATERIAL		STRUCTURAL BACKFILL	
ANGULAR BEDDING MATERIAL REQUIREMENTS PERCENT PASSING		STRUCTURAL BACKFILL REQUIREMENTS PERCENT PASSING	
SIEVE SIZES	PERCENTAGE PASSING	SIEVE SIZES	PERCENTAGE PASSING
1"	100	1-1/2"	100
3/4"	90-100	3/4"	80-100
3/8"	20-55	#4	30-60
#4	0-10	#30	5-35
#8	0-5	#200	0-12

UTILITY TRENCH-IN EASEMENT AREAS



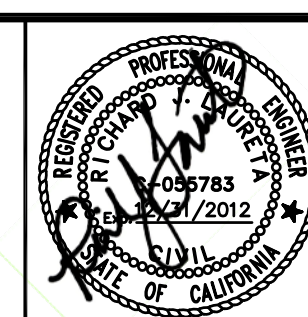
DATE:	4/03/12	3/06/12	50% SUBMITTAL
SCALE:	AS NOTED	4/03/12	90% SUBMITTAL
DESIGNED:	RJL	5/01/12	100% SUBMITTAL
DRAWN:	JJF	5/10/12	BID SET
CHECKED:	RJL		
PROJ. ENGR:	RJL		
BY	DATE	DESCRIPTION OF REVISIONS	APP'D



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DETAIL SHEET

SAN MATEO COUNTY, CALIFORNIA

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