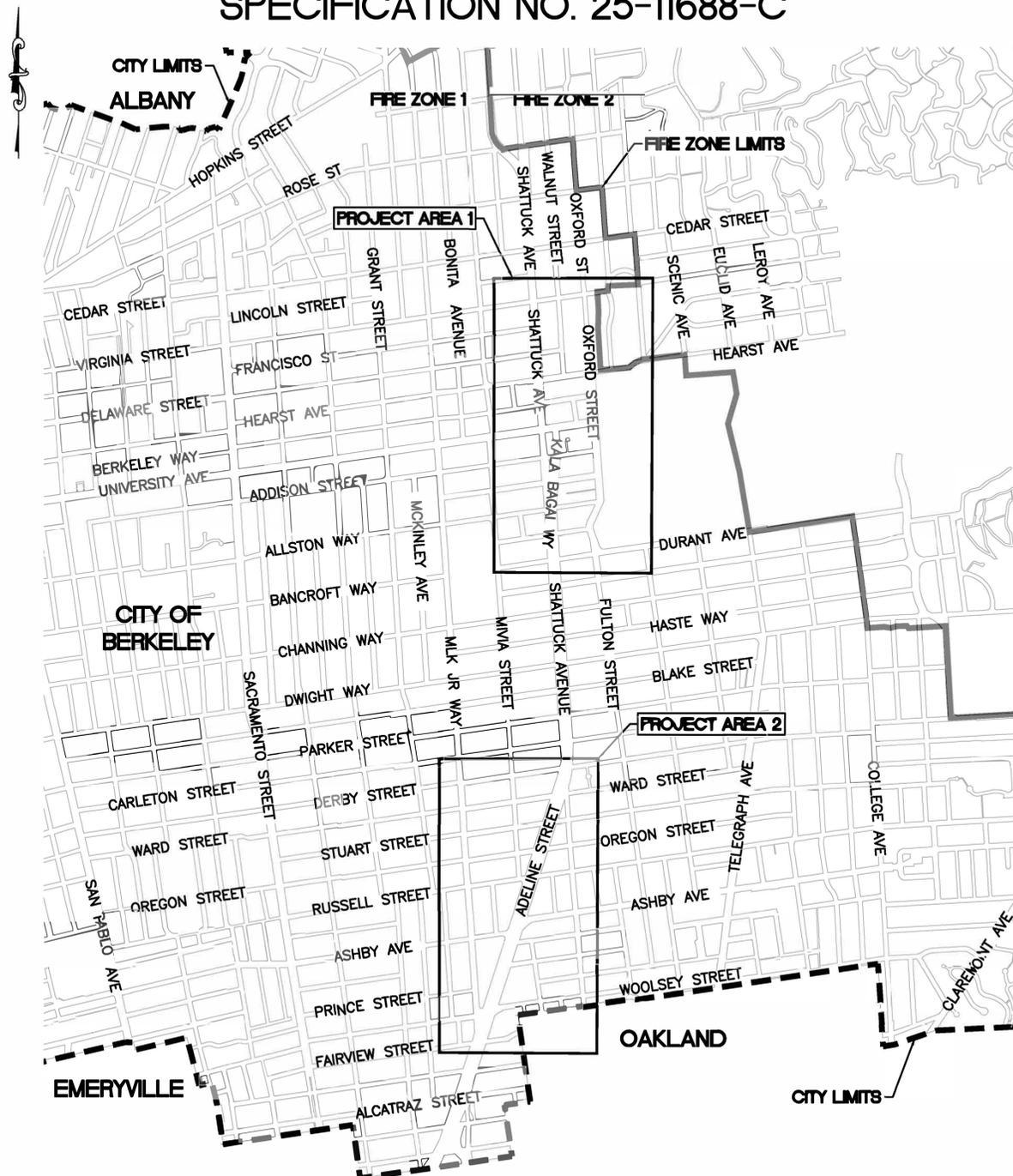


CITY OF BERKELEY, CALIFORNIA

SANITARY SEWER REHABILITATION

ADELINE STREET, SHATTUCK AVENUE, ET AL

SPECIFICATION NO. 25-11688-C



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24	PROJECT AREA 2	WOOLSEY STREET STA 13+80 TO END
25	---	DETAILS
26	---	DETAILS
27	---	DETAILS
28	---	DETAILS
29	---	DETAILS

CONTACT INFORMATION

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REVISION	MARK	DATE	DESCRIPTION	APPROVAL

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FOR CITY USE ONLY
REFERENCE SEWER MAP NO.



PROJECT MANAGER: *Felix Meneau* DATE 12/10/24
FELIX MENEAU, ASSOCIATE CIVIL ENGINEER

DEPICTION OF MONUMENTS: *Barclay Barton* DATE 12/10/24
BARCLAY BARTON, SURVEY PARTY CHIEF

SUBMITTED: *Daniel Akagi* DATE 12/10/24
DANIEL AKAGI, SUPERVISING CIVIL ENGINEER
EXP. 04/2025

DESIGN: MA
DRAWN: DC
CHECK: TH
AS BUILT: _____

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
TITLE SHEET
LOCATION MAP & INDEX OF DRAWINGS

PLAN NO.: 8292
FILE NO.: 502-822
SHEET 01 OF 29

SURVEY CONTROL POINTS

CONTROL DATA (U.S. SURVEY FOOT)

-HORIZONTAL CONTROL IN GROUND VALUES
-VERTICAL CONTROL IN CITY OF BERKELEY DATUM.

DESIGNATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
CITY BENCHMARKS USED				
7	2144644.443	6051946.744	204.04	FND BM B1552
74	2137546.918	6051271.239	122.62	FND BM B4328
CONTROL SET				
2	2145401.308	6051897.311	214.28	SET CUT X
3	2138376.148	6050869.095	119.59	SET CUT X
4	2139201.829	6051155.581	132.00	SET CUT X
5	2144919.854	6051976.986	203.14	SET CUT X
9	2144576.209	6052009.460	204.77	SET MAG
10	2143975.533	6051994.767	197.70	SET CUT X
27	2143626.872	6051897.911	193.49	SET MAG
28	2144466.832	6051471.251	185.47	SET CUT X
29	2144218.117	6051414.635	182.97	SET CUT X
30	2143841.044	6051415.173	180.91	SET CUT X
32	2138051.458	6050757.991	117.30	SET CUT X
33	2137476.371	6050620.716	112.12	SET CUT X
34	2139885.845	6051369.623	141.98	SET CUT X
54	2137040.262	6050507.394	106.29	SET CUT X
72	2143943.376	6051914.041	194.66	SET MAG
76	2144262.288	6051718.410	190.06	SET 60D NAIL
77	2144198.345	6051692.443	189.07	SET CUT X

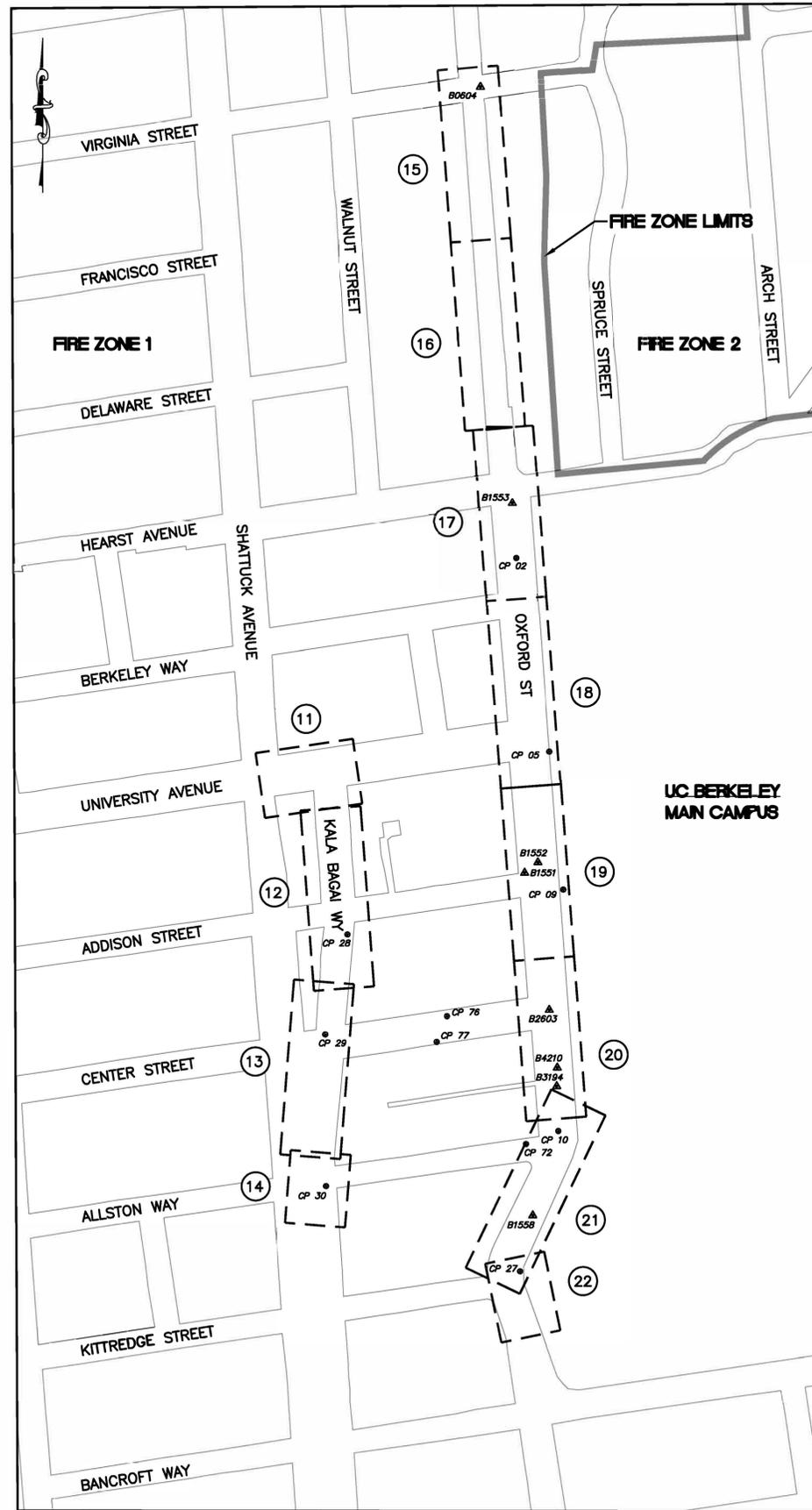
THE CONTROL TABLE VALUES CONTAINED HEREIN HAVE BEEN REVIEWED BY A CITY OF BERKELEY SURVEY CHIEF OF PARTY FOR CONFORMITY WITH RECORD INFORMATION ONLY. NO FIELD VERIFICATION OF THIS DATA HAS BEEN PERFORMED BY THE CITY OF BERKELEY SURVEY CREWS.

CONTROL POINTS 32, 33, 54, 76 & 77 ARE OUTSIDE OF THE LIMITS SHOWN ON PLANS

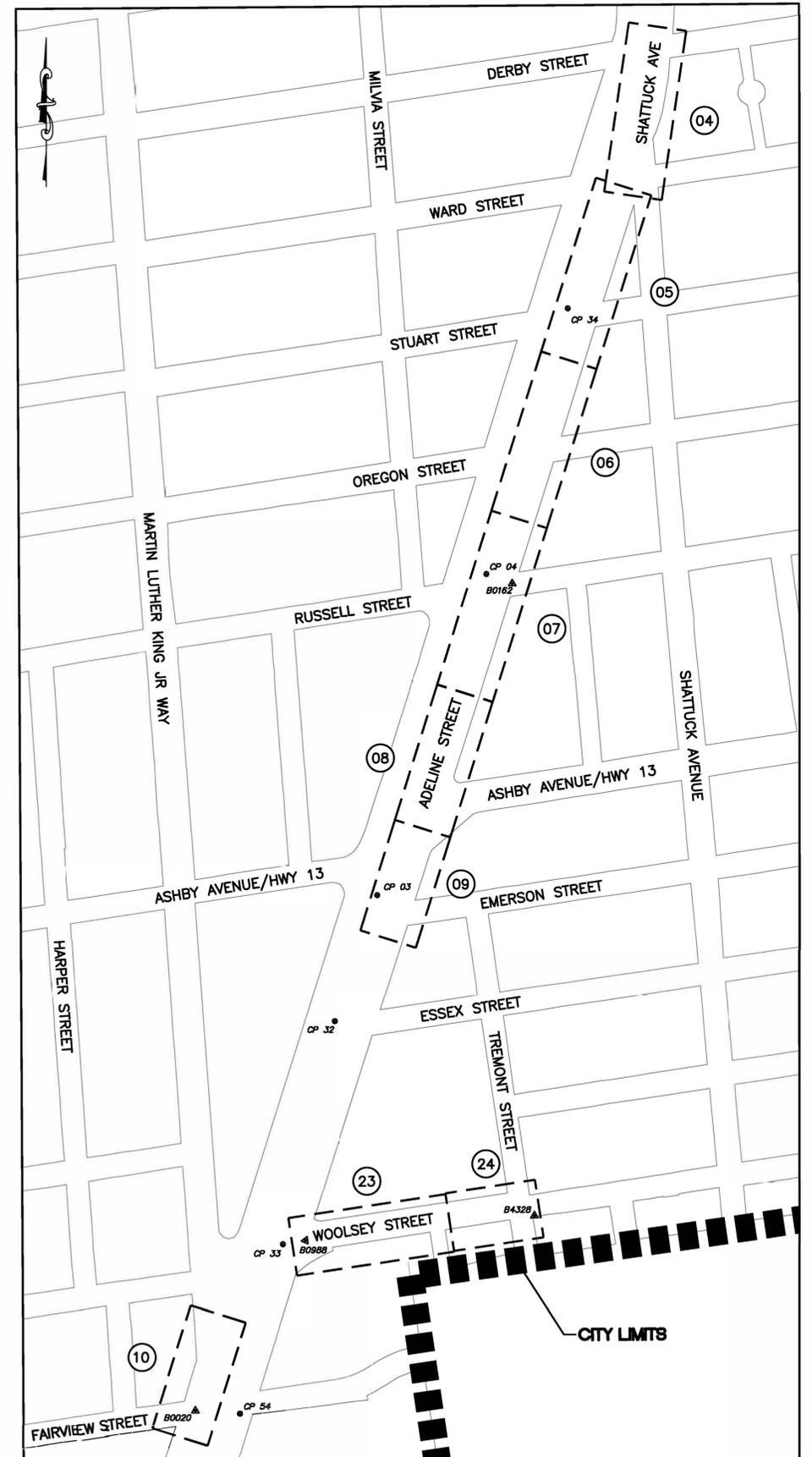
THE TOPOGRAPHIC MAPPING OF THE SITES SHOWN HEREON WAS SURVEYED USING A COMBINATION OF TRIMBLE R12 GPS AND TSC7 TOTAL STATION EQUIPMENT.

SURVEY CONTROL SHOWN HEREON BASED ON NAD83, ZONE III EPOCH 2010.00 DATUM. ELEVATIONS SHOWN HEREON ARE BASED ON CITY OF BERKELEY DATUM.

RIGHT OF WAY (R/W) SHOWN HEREON IS BEST FIT AND WAS OBTAINED FROM AVAILABLE PUBLIC RECORDS AND FOUND MONUMENTS IN THE FIELD. NO ATTEMPT WAS MADE TO RETRACE THE R/W.



PROJECT AREA 1
SCALE 1"=200'



PROJECT AREA 2
SCALE 1"=200'

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FOR CITY USE ONLY
REFERENCE SEWER MAP NO.



Bellecci
Intelligent Infrastructure

PROJECT MANAGER: DATE 12/09/24
FELIX MENEAU, ASSOCIATE CIVIL ENGINEER

DEPICTION OF MONUMENTS: DATE 12/09/24
BAIRD BARTON, SURVEY PARTY CHIEF

SUBMITTED: DATE 12/09/24
DANIEL AKAGI, SUPERVISING CIVIL ENGINEER

DESIGN: MA
DRAWN: DC
CHECK: TH
AS BUILT: _____

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
VICINITY MAPS
AND SHEET KEY

PLAN NO.: 8292
FILE NO.: 502-822
SHEET 02 OF 29

REVISION	MARK	DATE	DESCRIPTION	APPROVAL

GENERAL NOTES

1. THE LOCATIONS AND/OR ELEVATIONS OF UNDERGROUND UTILITIES AND SUBSTRUCTURES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 811 OR (800) 227-2600 AT LEAST FOUR WORKING DAYS BEFORE EXCAVATING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING UTILITIES IN ACCORDANCE WITH SPECIFICATIONS.

2. THE CONTRACTOR SHALL NOTE THAT OVERHEAD UTILITIES, UNDERGROUND CABLE TELEVISION LINES, GAS AND WATER SERVICES, IF ANY, ARE NOT SHOWN ON THE PLANS. IF SHOWN ON THE PLANS, THE CITY ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF SUCH MATERIAL OR INFORMATION. CABLE TV LINES, IF PRESENT, ARE SOMETIMES LOCATED IN COMMON TRENCHES WITH OTHER UNDERGROUND UTILITIES. THE CONTRACTOR SHALL INCLUDE THESE CONSIDERATIONS IN HIS/HER/THEIR ESTIMATE OF WORK.

3. THE CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS NOT DESIGNATED FOR REMOVAL AND SHALL RESTORE DAMAGED OR TEMPORARILY RELOCATED IMPROVEMENTS TO A CONDITION EQUAL TO OR BETTER THAN THEY WERE PRIOR TO SUCH DAMAGE OR TEMPORARY RELOCATION.

4. PIPE LENGTHS SHOWN ON THE PLANS ARE THE APPROXIMATE HORIZONTAL DISTANCES BETWEEN CENTER LINE OF MH. THE CONTRACTOR SHALL NOTE THAT MEASUREMENT FOR PAYMENT WILL BE THE ACTUAL LINEAR FOOTAGE INSTALLED.

5. NEW PRECAST MH SHALL BE THE ECCENTRIC-TAPER TYPE, UNLESS OTHERWISE NOTED.

6. NEW MH LOCATIONS ARE APPROXIMATE AND IN SOME CASES MAY BE ALTERED TO MINIMIZE PIPE CUTTING OR FOR OTHER REASONS IF APPROVED BY THE ENGINEER.

7. THE CONTRACTOR SHALL INSTALL NEW MH IN EXISTING SANITARY SEWER LINES AS SHOWN ON THE PLANS. THE INVERT ELEVATIONS OF THE EXISTING PIPE SHALL BE MAINTAINED AT THE LOCATION OF THE NEW MH UNLESS OTHERWISE NOTED.

8. WHERE REQUIRED ON THE PLANS, THE EXISTING PIPES SHALL BE REMOVED AND NEW PIPES SHALL BE CONSTRUCTED IN THEIR PLACES. IF A PROFILE OF THE NEW PIPE IS NOT SHOWN, THE CONTRACTOR SHALL SURVEY THE INVERTS AT EACH END OF THE PIPES PRIOR TO ITS REMOVAL AND THEN INSTALL THE NEW PIPE ON A UNIFORM GRADE BETWEEN THE SAME INVERTS.

9. ALL NEW DROP MH SHALL BE OUTSIDE DROP WITH CONCRETE ENCASEMENT. SEE STANDARD DETAIL DRAWING IN THE SPECIFICATIONS.

10. PROVIDE FLEXIBLE JOINTS FOR ALL MH IN ACCORDANCE WITH SUBSECTION 303-8.7 OF THE TECHNICAL PROVISIONS.

11. MATERIALS AND INFORMATION FURNISHED BY THE CITY, INCLUDING ACCESS TO ANY AVAILABLE TAPES AND BORING REPORTS, ARE FOR THE CONVENIENCE OF THE BIDDER OR CONTRACTOR.

12. SETTLEMENT OF TRENCH PAVEMENT, INCLUDING ASPHALT RESURFACING, ASSOCIATED WITH THE WORK OCCURRING WITHIN A PERIOD OF ONE YEAR AFTER COMPLETION OF THE WORK SHALL BE REPAVED AND RESURFACED AT THE CONTRACTOR'S OWN EXPENSE. THIS WORK IS TO BE TO THE SATISFACTION OF THE ENGINEER. THIS IS TO BE AN INCLUSIVE PROVISION UNDER SUBSECTION 801.13 OF THE GENERAL PROVISIONS.

13. WHERE SHOWN ON THE PLANS, THE CONTRACTOR SHALL REMOVE THE EXISTING LAMPHOLE OR MH AND CONSTRUCT A NEW MH IN ITS PLACE. THE NEW MH SHALL BE CONSTRUCTED TO THE INVERT ELEVATIONS AS SHOWN ON THE DRAWINGS UNLESS OTHERWISE NOTED.

14. EXISTING UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN LOCATED FROM EVIDENCE ON THE SURFACE OF THE SITE AND FROM AVAILABLE RECORDS. BEFORE COMMENCING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING FACILITIES WITHIN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL EXPOSE BURIED STRUCTURES AND UTILITIES AS NEEDED TO VERIFY LOCATIONS AND ELEVATIONS.

15. CONTRACTOR SHALL INSTALL LOCATING WIRE ON NEW PIPES IN ACCORDANCE WITH THE SPECIFICATIONS.

16. CONTRACTOR SHALL FURNISH ONE (1) SET OF MARKED PLANS SHOWING ALL AS-BUILTS MADE DURING THE COURSE OF CONSTRUCTION, INCLUDING LATERAL LOCATION, UPON COMPLETION OF WORK. THE CONTRACTOR SHALL MAINTAIN AND FURNISH RECORDS IN ACCORDANCE WITH SUBSECTION 401.15 OF THE GENERAL PROVISIONS AND SPECIAL CONDITION NO. 8 OF THE SPECIAL PROVISIONS.

17. THE CONTRACTOR SHALL MAINTAIN THE PROJECT SITE IN A NEAT AND ORDERLY CONDITION THROUGHOUT THE CONSTRUCTION PERIOD IN ACCORDANCE WITH SUBSECTIONS 401.6, 401.7 AND 401.7-1 OF THE GENERAL PROVISIONS AND SPECIAL CONDITIONS NO. 6 AND 7 OF THE SPECIAL PROVISIONS.

CONTRACTOR SHALL PERFORM FINAL SWEEPING AND CLEANUP OF ALL STREETS AND SIDEWALKS AFFECTED BY THE THE CONSTRUCTION UPON COMPLETION OF CONSTRUCTION. FINAL CLEANUP SHALL BE IN ACCORDANCE WITH SUBSECTION 401.13 OF THE GENERAL PROVISIONS.

THE CONTRACTOR IS NOT ALLOWED TO USE WATER TO CLEAN THE STREET PAVEMENT SURFACE THAT WOULD VIOLATE CITY OF BERKELEY MUNICIPAL CODE CHAPTER 17.20.

18. TEMPORARY BITUMINOUS SURFACING AND CLEAN UP OF THE WORK SHALL BE INSPECTED AND MAINTAINED DAILY BY THE CONTRACTOR. CONTRACTOR WILL BE CHARGED BY DEDUCTIONS FROM PAYMENTS DUE ON THE CONTRACT AT THE RATE AND SURCHARGE DESIGNATED IN SPECIAL CONDITIONS NOS. 6 & 7 FOR NON-COMPLIANCE.

19. PIPE TYPES TO BE USED FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH SUBSECTION 207-19 AND 207-25 OF THE TECHNICAL PROVISIONS.

20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING STAKES AND MARKERS FOR EXECUTION AND COMPLETION OF THE WORK. THE WORK SHALL BE IN ACCORDANCE WITH THE LINES, ELEVATIONS AND GRADES SHOWN ON THE APPROVED PLANS. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL THE CUT SHEETS OF THE PROPOSED SEWER WORK. FOR ADDITIONAL INFORMATION, REFER TO BID ITEM "CONSTRUCTION STAKING AND CUT SHEETS" AND SPECIAL CONDITION NO. 17 OF THE SPECIAL PROVISIONS AND SUBSECTION 501.7 OF THE GENERAL PROVISIONS.

21. DECISION FOR DETERMINING CLASSIFICATION OF SPECIAL HARD ROCK MATERIAL FOR PAYMENT UNDER BID ITEM "ROCK EXCAVATION" SHALL BE BY THE ENGINEER. MATERIALS CLASSIFIED AS ROCK ARE IGNEOUS, METAMORPHIC AND SEDIMENTARY ROCK AS WELL AS LARGE MASSES OF STONY MATERIAL AND BOULDERS WHICH CANNOT BE EXCAVATED WITHOUT UTILIZING HEAVY DUTY RIPPING EQUIPMENT AND JACK HAMMERS. TO PREVENT FUTURE CONFLICT REGARDING QUANTITIES OF ROCK EXCAVATION, DAILY RECORDS OF ROCK EXCAVATION SHALL BE SUBMITTED BY THE CONTRACTOR.

22. ALL CITY OF BERKELEY MONUMENTS LOCATED WITHIN THE PROJECT AREA MUST BE REFERENCED, PRIOR TO WORK COMMENCING, BY A LICENSED LAND SURVEYOR AS REQUIRED BY SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE, CORNER RECORDS OF THIS WORK MUST BE SUBMITTED FOR FILING TO BOTH THE COUNTY SURVEYOR OF ALAMEDA COUNTY, AND THE CITY OF BERKELEY, PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION, SURVEY SECTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF EXISTING SURVEY MONUMENTS, BENCHMARKS, REFERENCE POINTS AND STAKES. SHOULD ANY SURVEY MONUMENTS, BENCHMARKS, REFERENCE POINTS, OR STAKES BE DAMAGED OR DESTROYED DURING THE PERFORMANCE OF THIS WORK, THE CONTRACTOR SHALL REPLACE SAID ITEMS PER CITY STANDARDS IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND CONTACT A CITY OF BERKELEY, SURVEY SECTION, CHIEF OF PARTY FOR FINAL INSPECTION AND ACCEPTANCE OF THE WORK.

23. RIGHT OF WAY LINES AND PROPERTY LINES SHOWN ARE APPROXIMATE.

24. EXCAVATION LOCATIONS REQUIRED FOR SET-UP AND PLACEMENT OF EQUIPMENT NEEDED FOR PIPE SPLITTING AND PIPE LOWERING SHALL BE DETERMINED BY THE CONTRACTOR UNDER MEANS AND METHODS.

25. THE CONTRACTOR SHALL CONTACT THE CITY OF BERKELEY ARBORIST AT LEAST 48 HOURS IN ADVANCE OF PERFORMING WORK UNDER THE DRIP LINE OF EXISTING STREET TREES AND WHEN EXCAVATION IS PLANNED WITHIN THE ROOT SYSTEM OF THE TREE. THE CITY ARBORIST WILL REVIEW EACH LOCATION ON A CASE-BY-CASE BASIS TO CONFIRM THE ALLOWABLE EXTENT OF ROOT AND BRANCH PRUNING REQUIRED.

26. THE CONTRACTOR SHALL CONTACT AC TRANSIT AT LEAST 48 HOURS IN ADVANCE OF PERFORMING WORK SHOULD ANY STREET OR LANE CLOSURES REQUIRE RE-ROUTING OF PUBLIC TRANSIT.

27. UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL ADHERE TO THE CITY'S HOLIDAY AND REDUCED SERVICE DAYS SCHEDULE PER THE HOLIDAYS SECTION OF THE SPECIAL PROVISIONS. IN ADDITION, UNLESS OTHERWISE APPROVED IN ADVANCE BY THE CITY'S TRAFFIC ENGINEER, LANE CLOSURES ON MAJOR STREETS AND COLLECTOR STREETS (MARTIN LUTHER KING JR. WAY, ADELINE STREET, ALCATRAZ AVENUE, ETC.) ARE PROHIBITED DURING MORNING AND EVENING COMMUTE HOURS PER SECTION 24.2 OF THE SPECIAL CONDITIONS IN THE SPECIAL PROVISIONS.

28. EXISTING SANITARY SEWER LATERALS SHOWN WITH A (R) SYMBOL REPRESENT A LATERAL WHICH A CLEANOUT WAS NOT LOCATED IN THE FIELD BUT IS SHOWN ON CITY RECORD MAPS. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING SANITARY SEWER LATERALS IN THE FIELD VIA PRE-CONSTRUCTION CCTV AND INSTALL NEW SANITARY SEWER LATERAL WITH CLEANOUT PER THE SPECIAL PROVISIONS IN THE PROJECT SPECIFICATIONS.

29. CONTRACTOR SHALL, AT NO EXTRA COST TO THE CITY, REPAIR TO ORIGINAL CONDITION ANY SURFACE DAMAGES AS A RESULT OF GROUND HEAVE FROM METHOD "B" REHABILITATION. THIS INCLUDES RESTORATION OF GRADING, PAVING, SIDEWALKS, DRIVEWAYS, CURB, GUTTER, STRIPING, LANDSCAPING OR ANY OTHER SURFACE FEATURE DAMAGED BY METHOD "B" REHABILITATION.

ABBREVIATIONS

ABAN	ABANDONED	MAX	MAXIMUM
AC	ASPHALT CONCRETE	MH	MAINTENANCE HOLE
APPD	APPROVED	MIN	MINIMUM
APPROX	APPROXIMATE	MISC	MISCELLANEOUS
		MON	CITY SURVEY MONUMENT
BC	BEGIN CURVE	N	NORTH
BLVD	BOULEVARD	N/A	NOT APPLICABLE
BM	BENCHMARK	NIC	NOT IN CONTRACT
BOL	BOLLARD	NTS	NOT TO SCALE
BOT	BOTTOM		
C OR CATV	CABLE TELEVISION	OD	OUTSIDE DIAMETER
CB	CATCH BASIN	OF	OVERFLOW
CC	CENTER TO CENTER	OHE	OVERHEAD ELECTRICITY
CE	CONSTRUCTION EASEMENT	OHT	OVERHEAD TELEPHONE
C&G	CURB AND GUTTER	OHWM	ORDINARY HIGH WATER MARK
CIP	CAST IRON PIPE	OUT	OUTLET
CK	CULVERTED CREEK		
CL	CENTERLINE	PCC	POINT OF COMPOUND CURVE
CLR	CLEARANCE	PE	POLYETHYLENE
CLSM	CONTROLLED LOW STRENGTH MATERIAL	PG&E	PACIFIC GAS AND ELECTRIC
CO	CLEANOUT	PL	PROPERTY LINE
CONC	CONCRETE	PI	POINT OF INTERSECTION
CONN	CONNECTION	PP	POWER POLE
CONT	CONTINUOUS OR CONTINUATION	PT	POINT
CP	CONTROL POINT	PRC	POINT OF REVERSE CURVE
CR	CURB RAMP	PVC	POINT OF VERTICAL CURVE
CTR	CENTER		OR POLYVINYL CHLORIDE
		PVMT	PAVEMENT
DET	DETAIL		
DI	DROP INLET	RAD	RADIUS
DI.A., Ø	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE	RD	ROAD
DR	DRAIN	RR	RAILROAD
DWG(S)	DRAWING(S)	R/W	RIGHT-OF-WAY
DWY	DRIVEWAY		
E	EAST OR ELECTRICITY	S	SOUTH OR SLOPE
EA	EACH	SD	STORM DRAIN
EBMUD	EAST BAY MUNICIPAL UTILITY DISTRICT	SDR	STANDARD THERMOPLASTIC
EC	END CURVE		PIPE DIMENSION RATIO
ECC	ECCENTRIC	SECT	SECTION
ELEV	ELEVATION	SHT	SHEET
ELEC	ELECTRICITY	SHT	SPECIFICATIONS
EP	EDGE OF PAVEMENT	SS	SANITARY SEWER
EX	EXISTING	STA	STATION
		STD	STANDARD
FG	FINISHED GRADE	T, TEL	TELEPHONE
FH	FIRE HYDRANT	T&B	TOP AND BOTTOM
FIN	FINISHED	TC	TOP OF CURB OR CONCRETE
FL	FLOW LINE	TP	TELEPHONE POLE
FM	FORCE MAIN	TS	TRAFFIC SIGNAL
FT	FOOT OR FEET	TYP	TYPICAL
		UG	UNDERGROUND
G	GAS	U	UTILITY
GM	GAS METER		
GV	GAS VALVE	V	VAULT
GVL	GRAVEL	VAR	VARIES OR VARIABLE
		VERT	VERTICAL
HDPE	HIGH DENSITY POLYETHYLENE PIPE	VCP	VITRIFIED CLAY PIPE
HORIZ	HORIZONTAL		
HP	HIGH POINT	W	WEST OR WATER
		WM	WATER METER
ID	INSIDE DIAMETER	WV	WATER VALVE
IN	INLET OR INCH		
INV	INVERT	YD	YARD
JB	JUNCTION BOX		
JP	JOINT UTILITY POLE		
JT	JOINT		
L	STREET LIGHT OR TRAFFIC SIGNAL BOX		
LF	LINEAR FEET		
LH	LAMPHOLE		
LP	LOW POINT OR LIGHT POLE		
LT	LEFT		

SEWER REPLACEMENT METHODS

METHOD "A" - CURED-IN-PLACE PIPE LINER (CIPP LINER), DEFORMED RE-FORMED HDPE PIPE LINER.

METHOD "B" - PIPE SPLITTING. USE HDPE PIPE SDR-17.

METHOD "C" - TRADITIONAL OPEN TRENCH REPLACEMENT. USE HDPE SDR-17.

LEGEND

	REHABILITATE EXISTING SEWER OR REPLACE AND CONSTRUCT NEW SANITARY SEWER
	PLUG & ABANDON EXIST SANITARY SEWER
	EXIST MH TO BE REPLACED
	EXIST MH TO BE REHABILITATED
	NEW MH
	EXISTING MH
	EXISTING SANITARY SEWER W/CLEANOUT
	EXISTING SANITARY SEWER W/LAMPHOLE
	EXISTING SANITARY SEWER W/MH
	EXISTING STORM DRAIN SEWER W/MH
	EXISTING STORM DRAIN SEWER W/CATCH BASIN
	EXISTING CULVERTED CREEK
	EXISTING ELECTRICITY
	EXISTING GAS LINE W/VALVE
	EXISTING WATER LINE W/VALVE AND FH
	MATCH LINE
	CENTER LINE
	PROPERTY LINE
	COORDINATE TICK MARK
	STREET LIGHT W/POLE
	TRAFFIC SIGNAL W/POLE
	POWER &/OR TELEPHONE POLE W/ GUY
	TREE
	SOIL BORING
	POTHOLE
	LIGHT POLE
	TRAFFIC SIGNAL
	BENCH MARK
	CONTROL POINT SET
	CONTROL POINT FOUND
	MISCELLANEOUS SURVEY POINT FOUND
	STANDARD CITY WELL MONUMENT
	STANDARD CITY DISC MONUMENT
	CUT CROSS MONUMENT FOUND
	CUT CROSS MONUMENT SET
	EBMUD PIN MONUMENT
	EBMUD WELL MONUMENT

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FOR CITY USE ONLY
REFERENCE SEWER MAP NO.



PROJECT MANAGER: DATE 12/09/24
FELIK MENEAU, ASSOCIATE CIVIL ENGINEER

DEPICTION OF MONUMENTS: DATE 12/09/24
BAIRD BARTON, SURVEY PARTY CHIEF

SUBMITTED: DATE 12/09/24
DANIEL AKAGI, SUPERVISING CIVIL ENGINEER

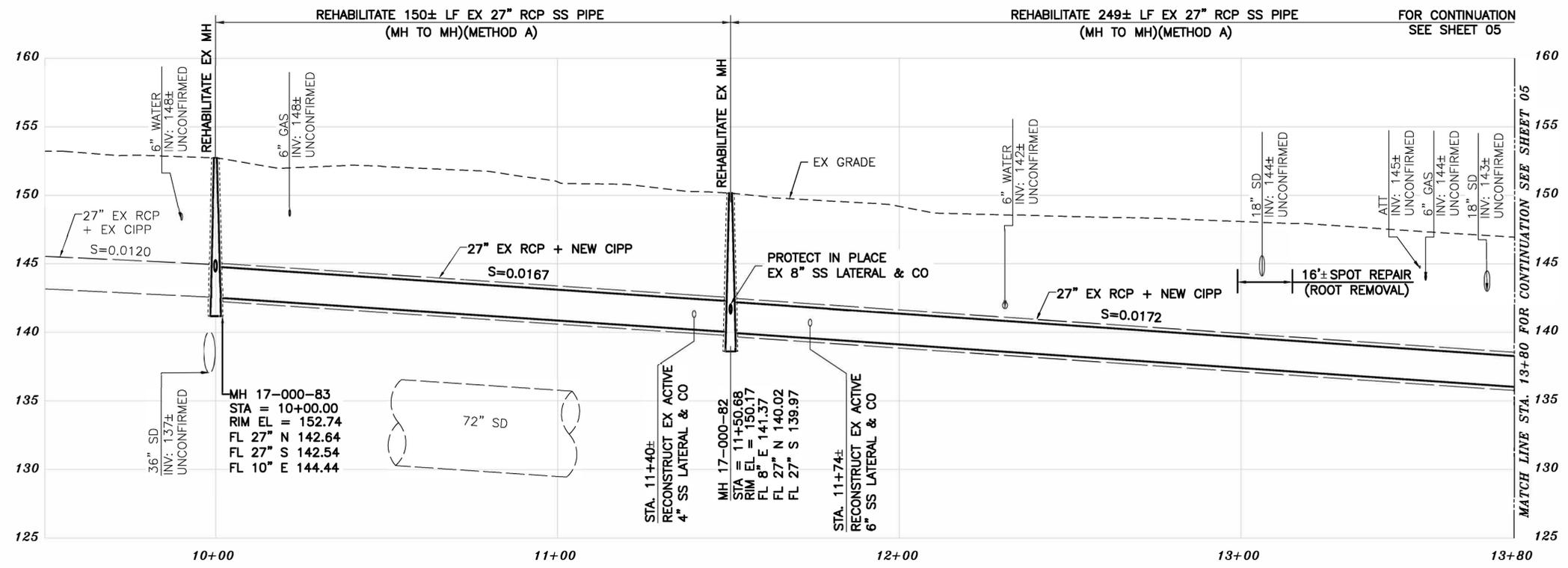
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DRAWN: DC
CHECK: TH
AS BUILT: _____
DATE: 12/09/24

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
GENERAL NOTES, LEGEND,
& ABBREVIATIONS

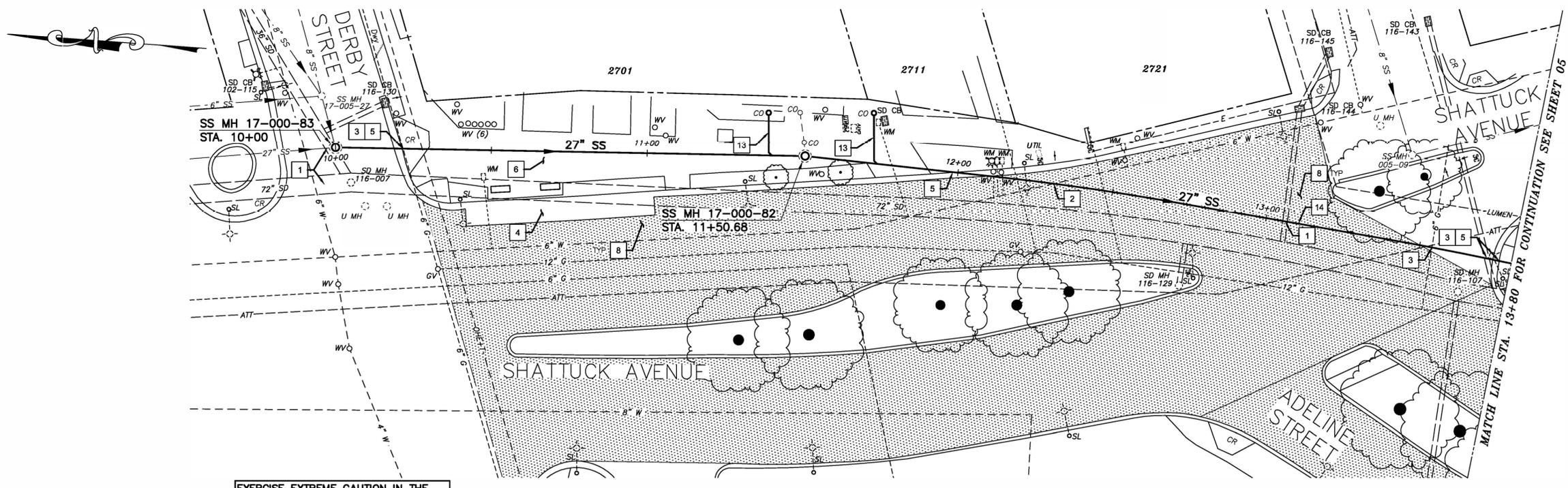
PLAN NO.: 8292
FILE NO.: 502-822
SHEET 03 OF 29

APPROVAL
DESCRIPTION
DATE
MARK
REVISION



PROFILE

- CONSTRUCTION KEY NOTES**
- EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX STORM DRAIN FACILITIES. COORDINATE WORK WITH CITY OF BERKELEY.
 - EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX WATER FACILITIES. COORDINATE WORK WITH EBMUD.
 - EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX GAS/ELECTRIC FACILITIES. COORDINATE WORK WITH PG&E.
 - RECONSTRUCT PORTIONS OF EX CONCRETE BUS PAD IF REMOVED/DAMAGED BY SEWER INSTALLATION.
 - RECONSTRUCT PORTIONS OF EX CURB AND GUTTER IF REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NO. 8145.
 - RECONSTRUCT PORTIONS OF EX SIDEWALK IF REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NO. 8153.
 - REPLACE EX BIKE LANE STRIPING, SIGNING, AND TRAFFIC DEVICES IF REMOVED/DAMAGED BY SEWER INSTALLATION. FOR CROSSWALK AND OTHER TRAFFIC MARKINGS, REPLACE/RESTORE ENTIRE WIDTH OF CROSSWALK AND TRAFFIC MARKINGS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
 - CONTRACTOR SHALL VERIFY STATUS OF EX SANITARY SEWER LOWER LATERAL. RECONSTRUCT ACTIVE LATERAL OR PROPERLY ABANDON IF INACTIVE.
 - CONTRACTOR SHALL PERFORM SPOT REPAIR TO CORRECT EX SAG, REPAIR DAMAGED PIPE, OR REMOVE ROOT INTRUSION PRIOR TO CIPP INSTALLATION.
- LEGEND**
- PAVEMENT MORATORIUM AREA SHATTUCK AVENUE (DERBY STREET - ADELINE STREET) 6/30/2020 THROUGH 6/30/2025
 - PAVEMENT MORATORIUM AREA ADELINE STREET (SHATTUCK AVENUE - ASHBY AVENUE) 6/30/2020 THROUGH 6/30/2025
- PAVEMENT MORATORIUM NOTES**
- EXCAVATION OR PAVEMENT CUTS WITHIN A DESIGNATED PAVEMENT MORATORIUM AREA SHALL BE RESTORED PER CITY OF BERKELEY STANDARD DETAIL 8136 AS SHOWN IN THE PLANS AND SPECIFICATIONS.



PLAN

- NOTES:**
- FOR GENERAL NOTES SEE SHEET 3 OF THE PLANS.
 - LOWER LATERALS ARE SHOWN BASED ON CCTV, SURVEY DATA, AND RECORD INFORMATION. LOWER LATERALS ARE SHOWN IN DASHED LINE WHERE UNCONFIRMED BY CCTV OR SURVEY DATA. LOWER LATERALS COULD NOT BE DETERMINED AS ACTIVE OR ABANDONED DURING THE PREPARATION OF THESE PLANS. PRIOR TO SEWER MAIN REHABILITATION AND ANY LATERAL RECONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY ALL LATERALS AS ACTIVE OR ABANDONED AND COORDINATE FINDINGS WITH THE ENGINEER.
 - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
 - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. EXISTING UTILITY INFORMATION SHOWN HEREIN IS FOR INFORMATION PURPOSES ONLY. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
 - ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL COORDINATE WITH BOTH PG&E AND EBMUD TO LOCATE FACILITIES. AT THE DISCRETION OF PG&E AND EBMUD, A SPECIAL INSPECTOR MAY BE REQUIRED TO OBSERVE WORK ADJACENT TO AN EXISTING PG&E OR EBMUD FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
 - SANITARY SEWER PIPES ARE SHOWN BASED ON RECORD INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. ACTUAL DIMENSIONS AND PIPE SIZES MAY VARY. CONTRACTOR TO VERIFY ALL SANITARY SEWER DIMENSIONS AND PIPE SIZES PRIOR TO COMMENCING WORK AND PROCURING MATERIALS.
 - SPOT REPAIRS ARE SHOWN BASED ON CCTV. PRIOR TO SEWER MAIN REHABILITATION, THE CONTRACTOR SHALL VERIFY LOCATIONS OF SPOT REPAIRS AND PERFORM SPOT REPAIRS AS NEEDED.

EXERCISE EXTREME CAUTION IN THE INTERSECTION OF ADELINE AND DERBY - MANY UTILITY CROSSINGS

SANITARY SEWER LAYOUT - ADELINE

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
10+00.00	2140560.26	6051628.87	S9°38'48.70"W	150.68	MH 17-000-83
11+50.68	2140411.71	6051603.62	S14°44'57.79"W	299.26	MH 17-000-82
13+80.00	2140192.85	6051535.77	---	---	MATCH LINE

K:\Projects\2024\240078 Berkeley Sewer Rehabilitation Project\03 - Plan Sheets\04 ADELINE STREET [04 C2.0] 12-09-24 01:45:50 PM dchoy



PROJECT MANAGER: DATE 12/09/24
 FELIX MENEAU, ASSOCIATE CIVIL ENGINEER
 BAIRD BARTON, SURVEY PARTY CHIEF
 WATERSHED REVIEW: DATE 12/09/24

DEPICTION OF MONUMENTS: DATE 12/09/24
 SUBMITTED: DATE 12/09/24
 DANIEL AKAGI, SUPERVISING CIVIL ENGINEER
 R.C.E. 37829
 EXP. 04/2025
 APPROVED: DATE 12/09/24
 RONALD NEVELS, CITY ENGINEER
 R.C.E. 62524
 EXP. 10/2025

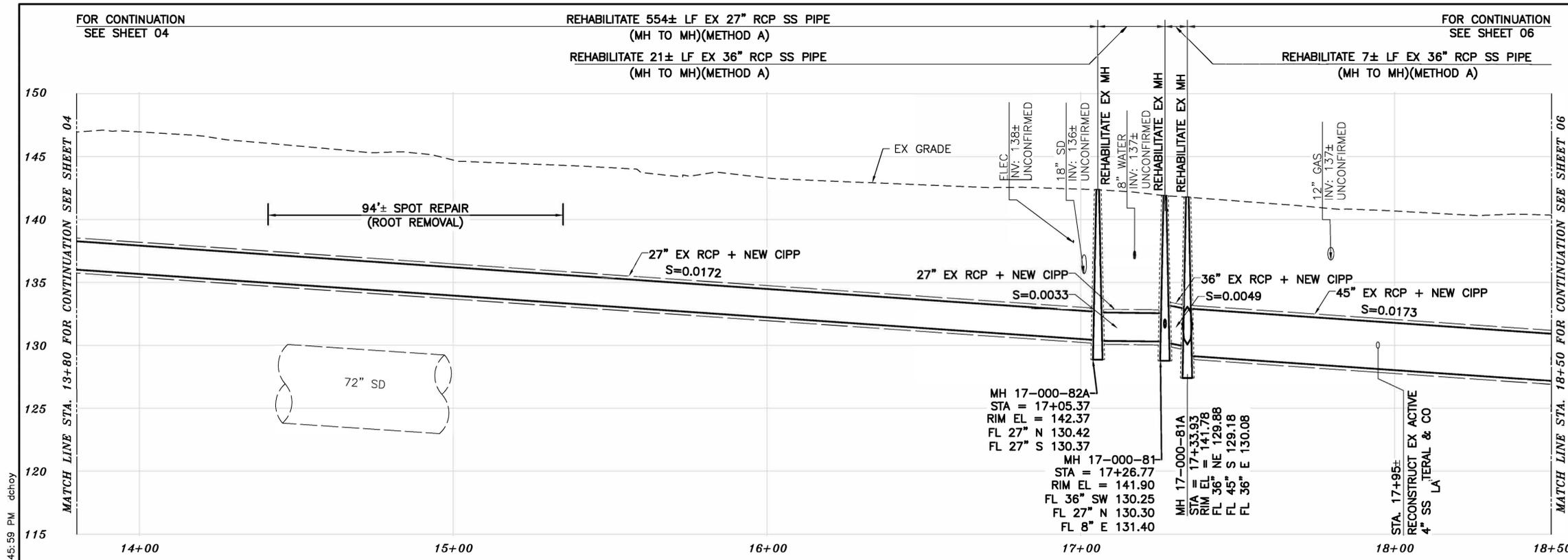
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 BOOK
 DATE 12/09/24

CITY OF BERKELEY
 DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
 ADELINE STREET 1
 27" SS
 PLAN AND PROFILE

PLAN NO.: 8292
 FILE NO.: 502-822
 SHEET 04 OF 29

FOR CITY USE ONLY
 REFERENCE SEWER MAP NO.



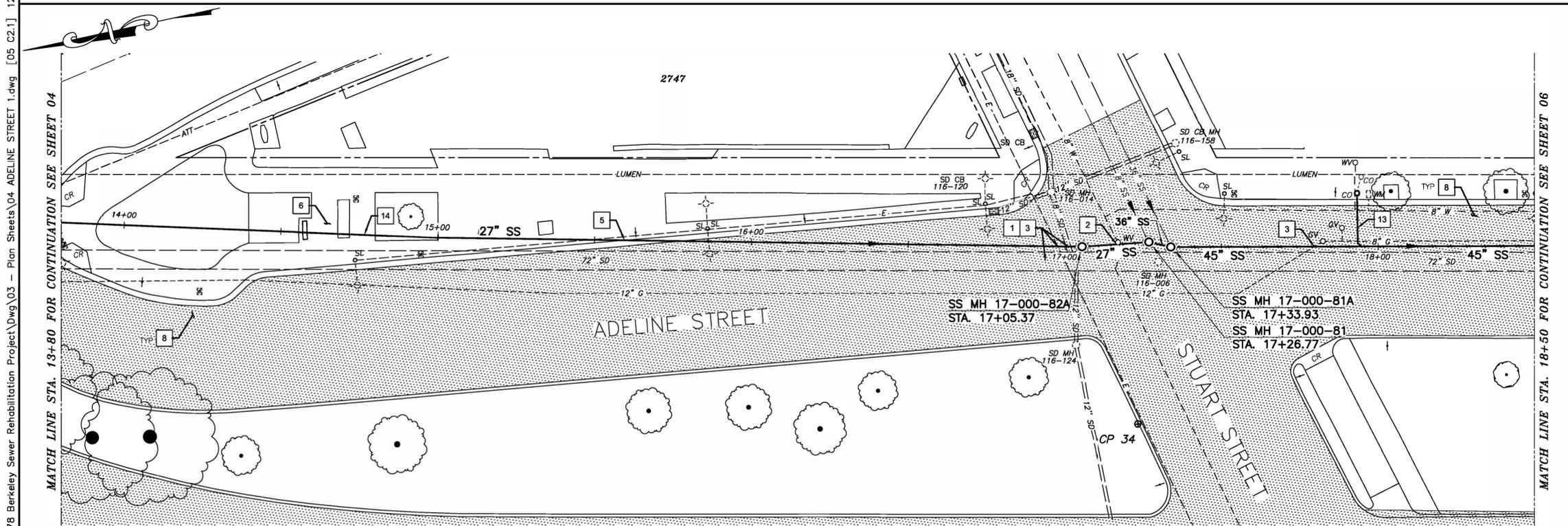
PROFILE

- CONSTRUCTION KEY NOTES**
- EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX STORM DRAIN FACILITIES. COORDINATE WORK WITH CITY OF BERKELEY.
 - EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX WATER FACILITIES. COORDINATE WORK WITH EBMUD.
 - EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX GAS/ELECTRIC FACILITIES. COORDINATE WORK WITH PG&E.
 - RECONSTRUCT PORTIONS OF EX CURB AND GUTTER IF REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NO. 8145
 - RECONSTRUCT PORTIONS OF EX SIDEWALK IF REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NO. 8153.
 - REPLACE EX BIKE LANE STRIPING, SIGNING, AND TRAFFIC DEVICES IF REMOVED/DAMAGED BY SEWER INSTALLATION. FOR CROSSWALK AND OTHER TRAFFIC MARKINGS, REPLACE/RESTORE ENTIRE WIDTH OF CROSSWALK AND TRAFFIC MARKINGS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
 - CONTRACTOR SHALL VERIFY STATUS OF EX SANITARY SEWER LOWER LATERAL. RECONSTRUCT ACTIVE LATERAL OR PROPERLY ABANDON IF INACTIVE.
 - CONTRACTOR SHALL PERFORM SPOT REPAIR TO CORRECT EX SAG, REPAIR DAMAGED PIPE, OR REMOVE ROOT INTRUSION PRIOR TO CIPP INSTALLATION.

- LEGEND**
- PAVEMENT MORATORIUM AREA
 - ADELINE STREET (SHATTUCK AVENUE - ASHBY AVENUE) 6/30/2020 THROUGH 6/30/2025

- PAVEMENT MORATORIUM NOTES**
- EXCAVATION OR PAVEMENT CUTS WITHIN A DESIGNATED PAVEMENT MORATORIUM AREA SHALL BE RESTORED PER CITY OF BERKELEY STANDARD DETAIL 8136 AS SHOWN IN THE PLANS AND SPECIFICATIONS.

- NOTES:**
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 - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
 - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. EXISTING UTILITY INFORMATION SHOWN HEREIN FOR INFORMATION PURPOSES ONLY. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
 - ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL COORDINATE WITH BOTH PG&E AND EBMUD TO LOCATE FACILITIES. AT THE DISCRETION OF PG&E AND EBMUD, A SPECIAL INSPECTOR MAY BE REQUIRED TO OBSERVE WORK ADJACENT TO AN EXISTING PG&E OR EBMUD FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
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 - SPOT REPAIRS ARE SHOWN BASED ON CCTV. PRIOR TO SEWER MAIN REHABILITATION, THE CONTRACTOR SHALL VERIFY LOCATIONS OF SPOT REPAIRS AND PERFORM SPOT REPAIRS AS NEEDED.



PLAN

EXERCISE EXTREME CAUTION IN THE INTERSECTION OF ADELINE AND STUART - MANY UTILITY CROSSINGS

SANITARY SEWER LAYOUT - ADELINE

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
13+80.00	2140192.85	6051535.77	S2°07'25.59"W	325.43	MATCH LINE
17+05.37	2139885.55	6051428.75	S13°48'55.93"W	21.41	MH 17-000-82A
17+26.77	2139864.76	6051423.64	S30°33'30.75"W	7.15	MH 17-000-81
17+33.93	2139858.60	6051420.01	S17°41'19.55"W	114.71	MH 17-000-81A
18+50.00	2139748.17	6051384.79	---	---	MATCH LINE

FOR CITY USE ONLY
REFERENCE SEWER MAP NO.

Bellecci
Intelligent Infrastructure

PROJECT MANAGER: DATE 12/09/24
FELIX MENEAU, ASSOCIATE CIVIL ENGINEER

DEPICTION OF MONUMENTS: DATE 12/09/24
BAIRD BARTON, SURVEY PARTY CHIEF

WATERSHED REVIEW: DATE 12/09/24
RONALD NEVELS, CITY ENGINEER

SUBMITTED: DATE 12/09/24
DANIEL AKAGI, SUPERVISING CIVIL ENGINEER

APPROVED: DATE 12/09/24
RONALD NEVELS, CITY ENGINEER

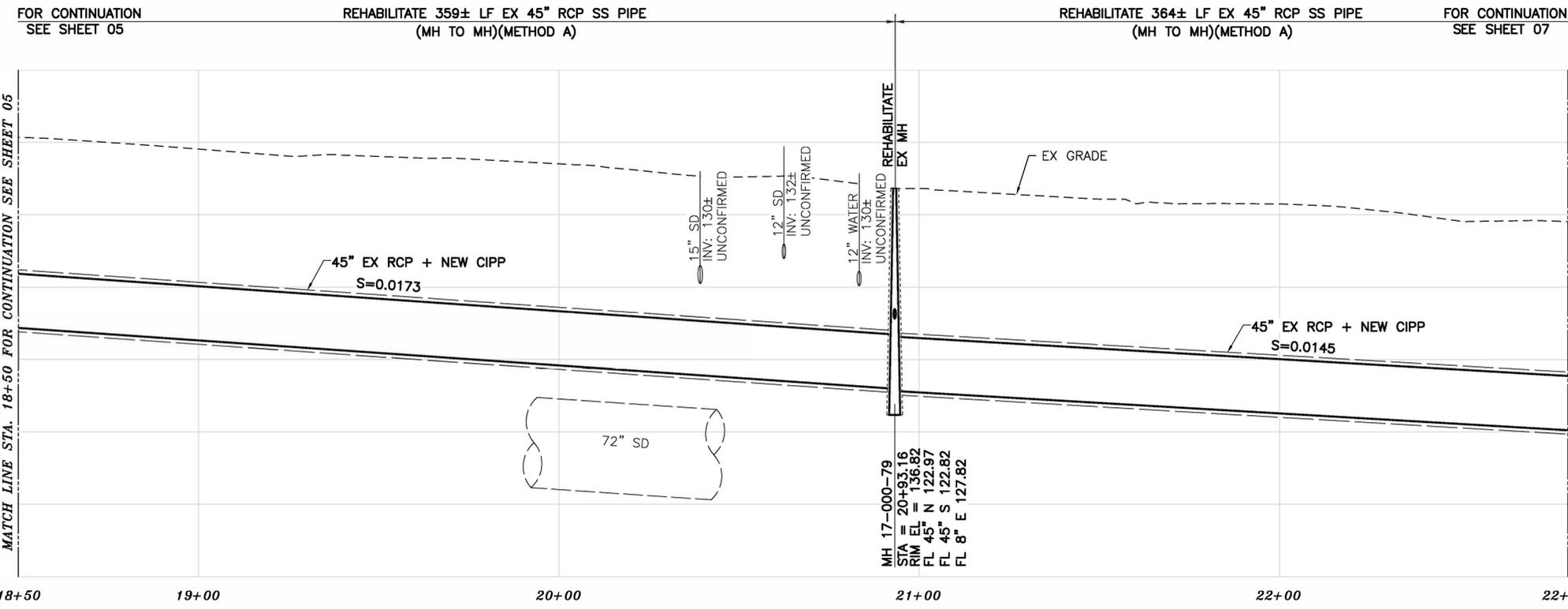
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HORIZ. 1"=20'
VERT. 1"=5'
BOOK: _____
DATE 12/09/24

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
ADELINE STREET 1
27"-36"-45" SS
PLAN AND PROFILE

PLAN NO.: 8292
FILE NO.: 502-822
SHEET 05 OF 29



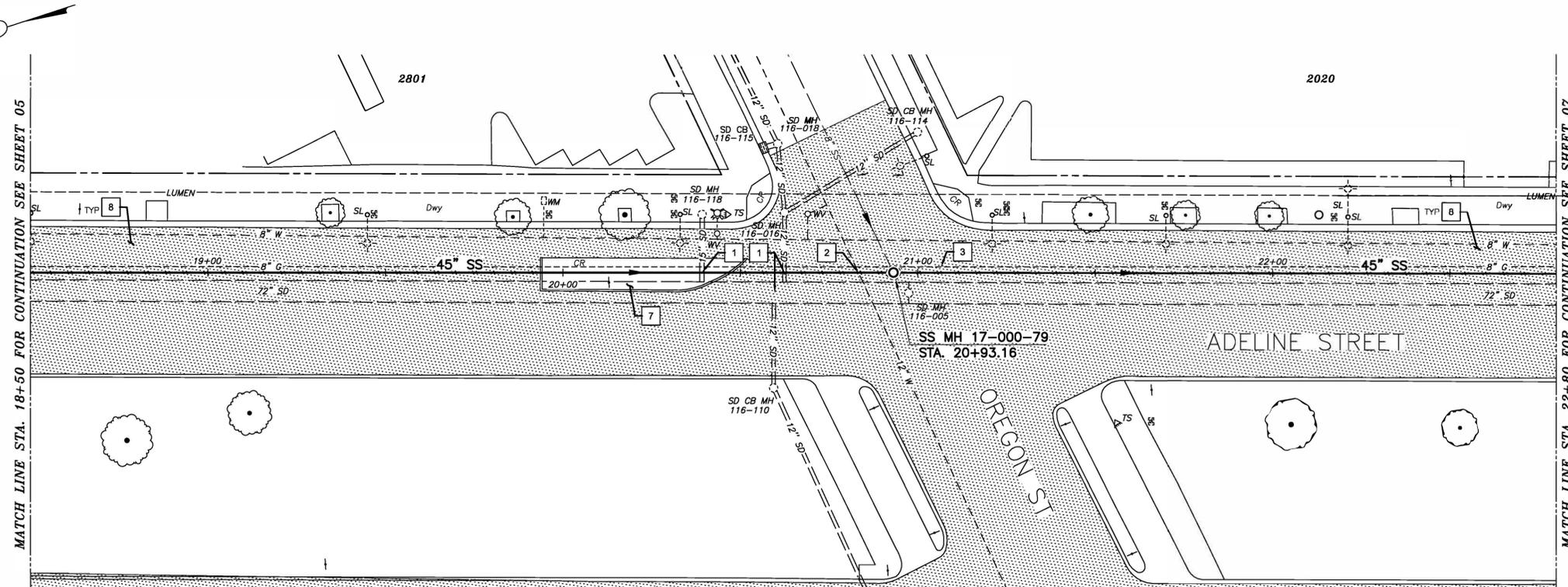
PROFILE

- CONSTRUCTION KEY NOTES**
- 1 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX STORM DRAIN FACILITIES. COORDINATE WORK WITH CITY OF BERKELEY.
 - 2 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX WATER FACILITIES. COORDINATE WORK WITH EBMUD.
 - 3 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX GAS/ELECTRIC FACILITIES. COORDINATE WORK WITH PG&E.
 - 7 RECONSTRUCT PORTIONS OF EX BUS BOARDING ISLANDS AND RAMPS IF REMOVED/DAMAGED BY SEWER INSTALLATION.
 - 8 REPLACE EX BIKE LANE STRIPING, SIGNING, AND TRAFFIC DEVICES IF REMOVED/DAMAGED BY SEWER INSTALLATION. FOR CROSSWALK AND OTHER TRAFFIC MARKINGS, REPLACE/RESTORE ENTIRE WIDTH OF CROSSWALK AND TRAFFIC MARKINGS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

- LEGEND**
- PAVEMENT MORATORIUM AREA
 - ADELINE STREET (SHATTUCK AVENUE - ASHBY AVENUE) 6/30/2020 THROUGH 6/30/2025

- PAVEMENT MORATORIUM NOTES**
1. EXCAVATION OR PAVEMENT CUTS WITHIN A DESIGNATED PAVEMENT MORATORIUM AREA SHALL BE RESTORED PER CITY OF BERKELEY STANDARD DETAIL 8136 AS SHOWN IN THE PLANS AND SPECIFICATIONS.

- NOTES:**
1. FOR GENERAL NOTES SEE SHEET 3 OF THE PLANS.
 2. LOWER LATERALS ARE SHOWN BASED ON CCTV, SURVEY DATA, AND RECORD INFORMATION. LOWER LATERALS ARE SHOWN IN DASHED LINE WHERE UNCONFIRMED BY CCTV OR SURVEY DATA. LOWER LATERALS COULD NOT BE DETERMINED AS ACTIVE OR ABANDONED DURING THE PREPARATION OF THESE PLANS. PRIOR TO SEWER MAIN REHABILITATION AND ANY LATERAL RECONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY ALL LATERALS AS ACTIVE OR ABANDONED AND COORDINATE FINDINGS WITH THE ENGINEER.
 3. RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
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 5. ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
 6. CONTRACTOR SHALL COORDINATE WITH BOTH PG&E AND EBMUD TO LOCATE FACILITIES. AT THE DISCRETION OF PG&E AND EBMUD, A SPECIAL INSPECTOR MAY BE REQUIRED TO OBSERVE WORK ADJACENT TO AN EXISTING PG&E OR EBMUD FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
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 8. SPOT REPAIRS ARE SHOWN BASED ON CCTV. PRIOR TO SEWER MAIN REHABILITATION, THE CONTRACTOR SHALL VERIFY LOCATIONS OF SPOT REPAIRS AND PERFORM SPOT REPAIRS AS NEEDED.



PLAN

SANITARY SEWER LAYOUT - ADELINE

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
18+50.00	2139748.17	6051384.79	S17°41'19.55"W	243.33	MATCH LINE
20+93.16	2139516.35	6051310.85	S17°48'12.49"W	186.81	MH 17-000-79
22+80.00	2139338.49	6051253.74	---	---	MATCH LINE

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PROJECT MANAGER: DATE 12/09/24
 FELIX MENEAU, ASSOCIATE CIVIL ENGINEER

DEPICTION OF MONUMENTS: DATE 12/09/24
 BAIRD BARTON, SURVEY PARTY CHIEF

SUBMITTED: DATE 12/09/24
 R.C.E. 37829
 EXP. 04/2025
 DANIEL AKAGI, SUPERVISING CIVIL ENGINEER

DESIGN MA
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 CHECK TH
 AS BUILT
 DATE 12/09/24

CITY OF BERKELEY
 DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
 ADELINE STREET 1
 45" SS
 PLAN AND PROFILE

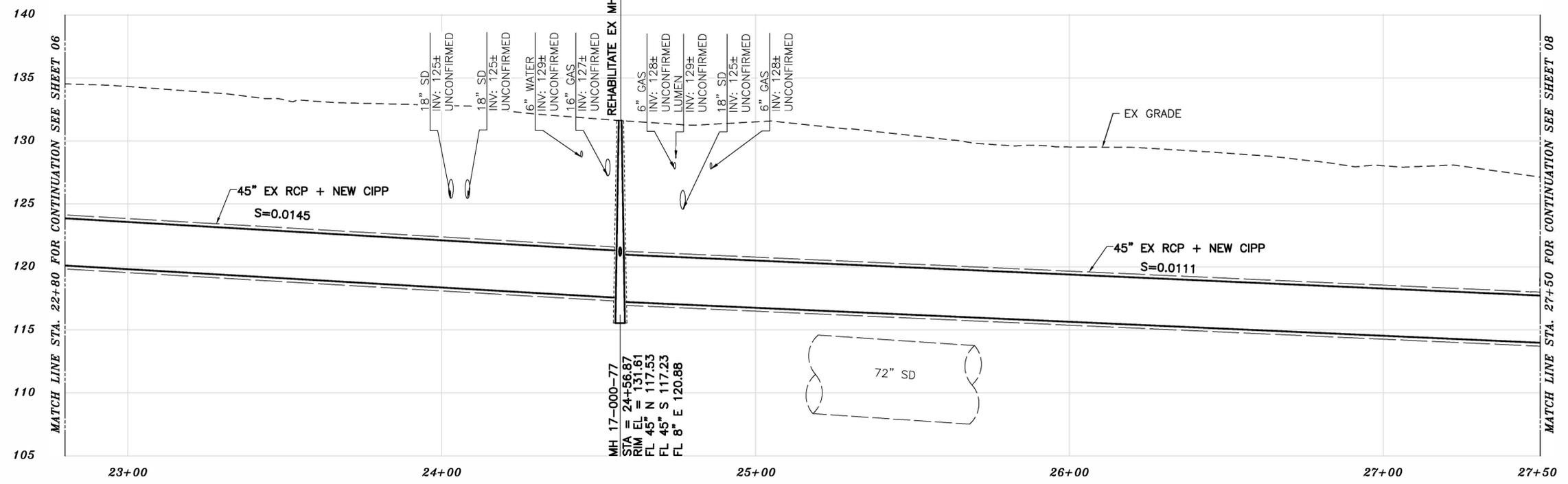
PLAN NO.: 8292
 FILE NO.: 502-822
 SHEET 06 OF 29

FOR CITY USE ONLY
 REFERENCE SEWER MAP NO.

FOR CONTINUATION
SEE SHEET 06

REHABILITATE 346± LF EX 45" RCP SS PIPE
(MH TO MH)(METHOD A)

FOR CONTINUATION
SEE SHEET 08



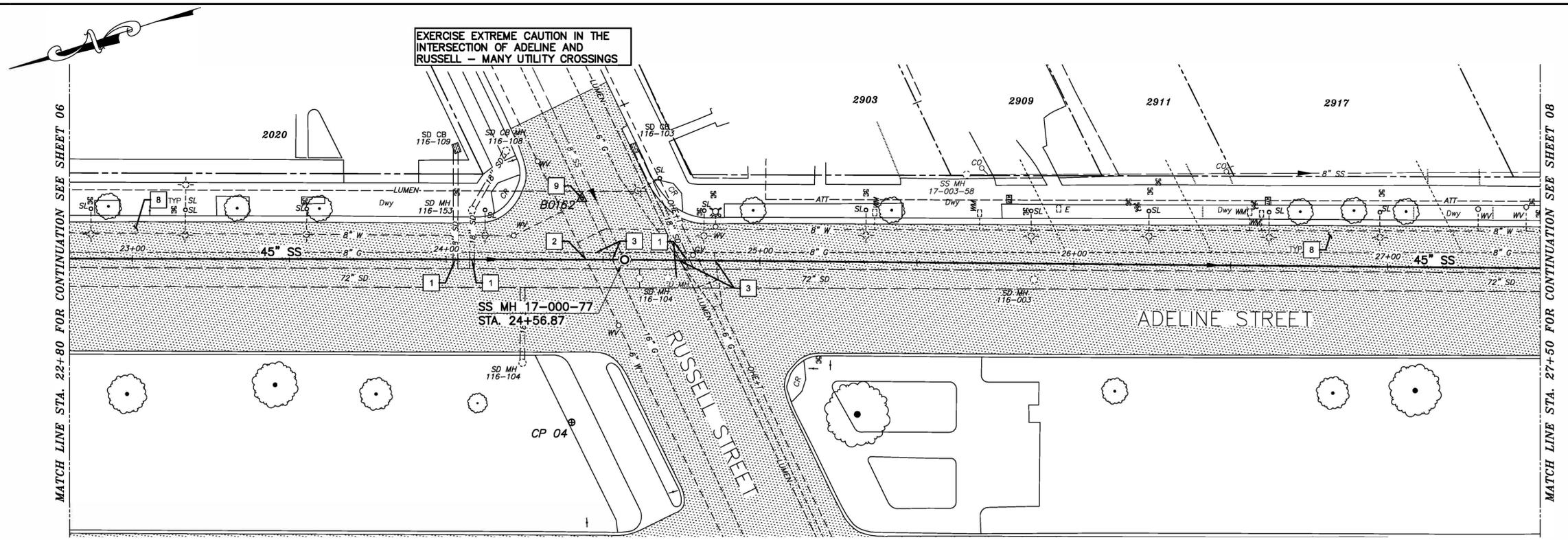
PROFILE

- CONSTRUCTION KEY NOTES**
- 1 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX STORM DRAIN FACILITIES. COORDINATE WORK WITH CITY OF BERKELEY.
 - 2 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX WATER FACILITIES. COORDINATE WORK WITH EBMUD.
 - 3 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX GAS/ELECTRIC FACILITIES. COORDINATE WORK WITH PG&E.
 - 8 REPLACE EX BIKE LANE STRIPING, SIGNING, AND TRAFFIC DEVICES IF REMOVED/DAMAGED BY SEWER INSTALLATION. FOR CROSSWALK AND OTHER TRAFFIC MARKINGS, REPLACE/RESTORE ENTIRE WIDTH OF CROSSWALK AND TRAFFIC MARKINGS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
 - 9 RECONSTRUCT EX MONUMENT REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NOS. 8090 & 8091.

- LEGEND**
- PAVEMENT MORATORIUM AREA
 - ADELINE STREET (SHATTUCK AVENUE - ASHBY AVENUE) 6/30/2020 THROUGH 6/30/2025

- PAVEMENT MORATORIUM NOTES**
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PLAN

SANITARY SEWER LAYOUT - ADELINE

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
22+80.00	2139338.49	6051253.74	S17°48'12.49"W	176.90	MATCH LINE
24+56.87	2139170.06	6051199.65	S18°13'14.70"W	293.03	MH 17-000-77
27+50.00	2138891.73	6051108.02	---	---	MATCH LINE

FOR CITY USE ONLY
REFERENCE SEWER MAP NO.

Bellecci
Intelligent Infrastructure

PROJECT MANAGER: DATE 12/09/24
FELIX MENEAU, ASSOCIATE CIVIL ENGINEER

DEPICTION OF MONUMENTS: DATE 12/09/24
BAIRD BARTON, SURVEY PARTY CHIEF

WATERSHED REVIEW: DATE 12/09/24
RONALD NEVELS, CITY ENGINEER

SUBMITTED: DATE 12/09/24
R.C.E. 37829
EXP. 04/2025
DANIEL AKAGI, SUPERVISING CIVIL ENGINEER

APPROVED: DATE 12/09/24
R.C.E. 62524
EXP. 10/2025

DESIGN MA
DRAWN DC
CHECK TH
AS BUILT

HORIZ. 1"=20'
VERT. 1"=5'
BOOK
DATE 12/09/24

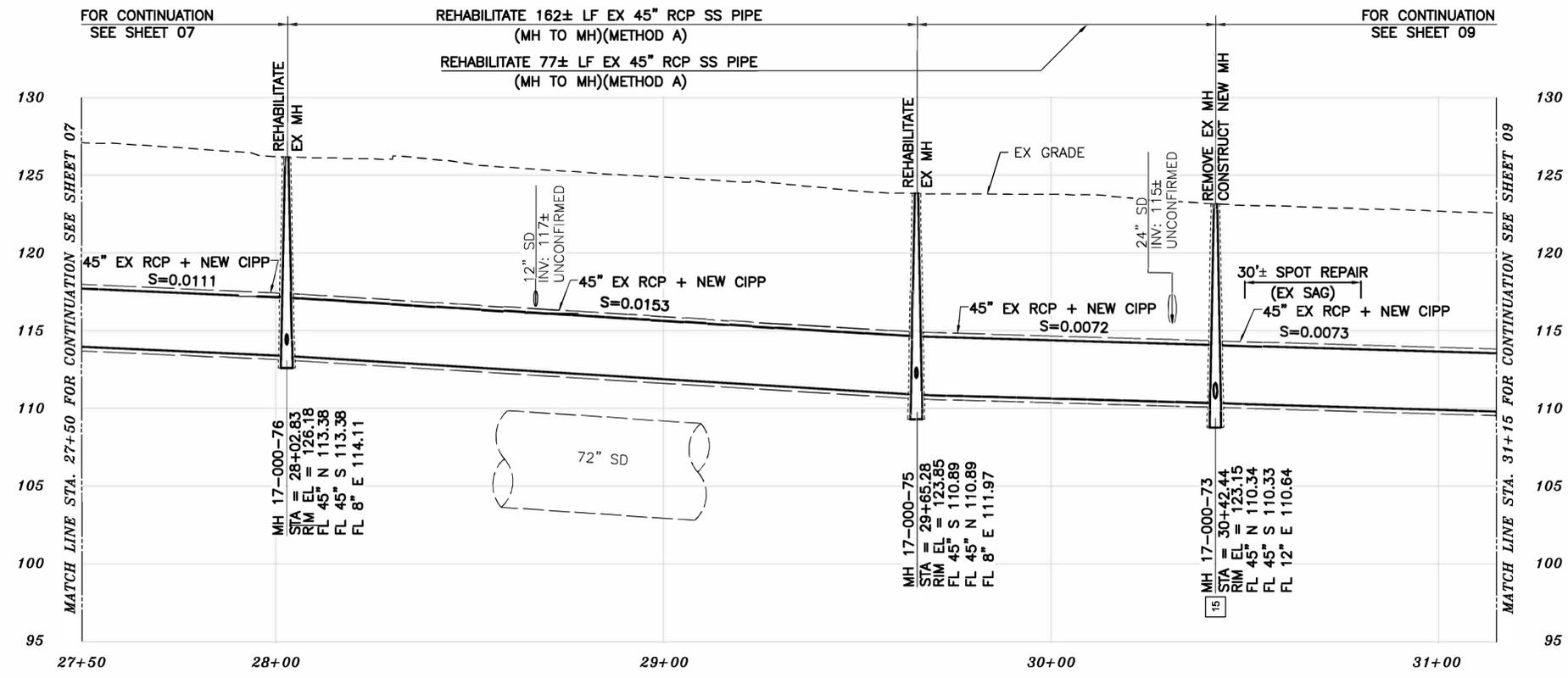
CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
ADELINE STREET 1
45" SS
PLAN AND PROFILE

PLAN NO.: 8292
FILE NO.: 502-822
SHEET 07 OF 29

K:\Projects\2024\240078 Berkeley Sewer Rehabilitation Project\Drawings\03 - Plan Sheets\04 ADELINE STREET 1.dwg [07 C2.3] 12-09-24 01:46:09 PM dchoy

K:\Projects\2024\240078 Berkeley Sewer Rehabilitation Project\Drawings\03 - Plan Sheets\04 ADELIN STREET 1.dwg [08 C2.4] 12-09-24 01:46:14 PM dchoy



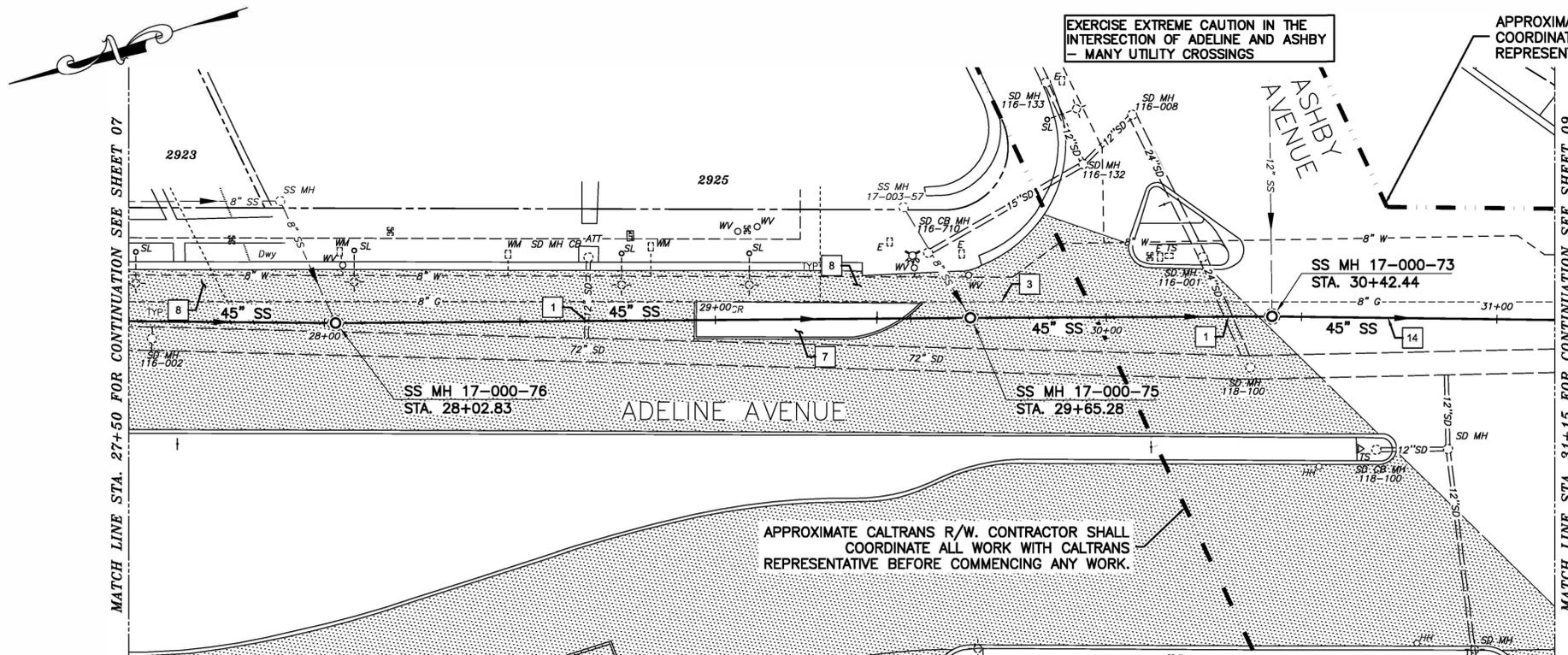
PROFILE

- CONSTRUCTION KEY NOTES**
- EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX STORM DRAIN FACILITIES. COORDINATE WORK WITH CITY OF BERKELEY.
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 - CONTRACTOR SHALL PERFORM SPOT REPAIR TO CORRECT EX SAG, REPAIR DAMAGED PIPE, OR REMOVE ROOT INTRUSION PRIOR TO CIPP INSTALLATION.
 - REMOVE EX MH. CONSTRUCT NEW MH PER DETAIL 12 ON SHEET 26. CONSTRUCT NEW FRAME AND COVER PER DETAIL 13 ON SHEET 27. COORDINATE WITH ENGINEER PRIOR TO CONSTRUCTION.

- LEGEND**
- PAVEMENT MORATORIUM AREA
 - ADELIN STREET (SHATTUCK AVENUE - ASHBY AVENUE) 6/30/2020 THROUGH 6/30/2025

- PAVEMENT MORATORIUM NOTES**
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 - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
 - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. EXISTING UTILITY INFORMATION SHOWN HEREIN IS FOR INFORMATION PURPOSES ONLY. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
 - ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL COORDINATE WITH BOTH PG&E AND EBMUD TO LOCATE FACILITIES. AT THE DISCRETION OF PG&E AND EBMUD, A SPECIAL INSPECTOR MAY BE REQUIRED TO OBSERVE WORK ADJACENT TO AN EXISTING PG&E OR EBMUD FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
 - SANITARY SEWER PIPES ARE SHOWN BASED ON RECORD INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. ACTUAL DIMENSIONS AND PIPE SIZES MAY VARY. CONTRACTOR TO VERIFY ALL SANITARY SEWER DIMENSIONS AND PIPE SIZES PRIOR TO COMMENCING WORK AND PROCURING MATERIALS.
 - SPOT REPAIRS ARE SHOWN BASED ON CCTV. PRIOR TO SEWER MAIN REHABILITATION, THE CONTRACTOR SHALL VERIFY LOCATIONS OF SPOT REPAIRS AND PERFORM SPOT REPAIRS AS NEEDED.



PLAN

SANITARY SEWER LAYOUT - ADELIN

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
27+50.00	2138891.73	6051108.02	S18°13'14.70"W	52.93	MATCH LINE
28+02.83	2138841.45	6051091.47	S17°13'36.98"W	162.45	MH 17-000-76
29+65.28	2138686.29	6051043.36	S17°27'40.19"W	77.17	MH 17-000-75
30+42.44	2138612.66	6051020.27	S18°23'01.99"W	72.39	MH 17-000-73
31+15.00	2138543.96	6050997.44	---	---	MATCH LINE



PROJECT MANAGER: DATE 12/09/24
 FELIX MENEAU, ASSOCIATE CIVIL ENGINEER
 BAIRD BARTON, SURVEY PARTY CHIEF
 WATERSHED REVIEW: DATE 12/09/24

DEPICTION OF MONUMENTS: DATE 12/09/24
 DANIEL AKAGI, SUPERVISING CIVIL ENGINEER
 APPROVED: DATE 12/09/24
 RONALD NEVELS, CITY ENGINEER

SUBMITTED: DATE 12/09/24
 R.C.E. 37829
 EXP. 04/2025
 DESIGN MA
 DRAWN DC
 CHECK TH
 AS BUILT
 HORIZ. 1"=20'
 VERT. 1"=5'
 BOOK
 DATE 12/09/24

CITY OF BERKELEY
 DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
 ADELIN STREET 1
 45" SS
 PLAN AND PROFILE

PLAN NO.: 8292
 FILE NO.: 502-822
 SHEET 08 OF 29

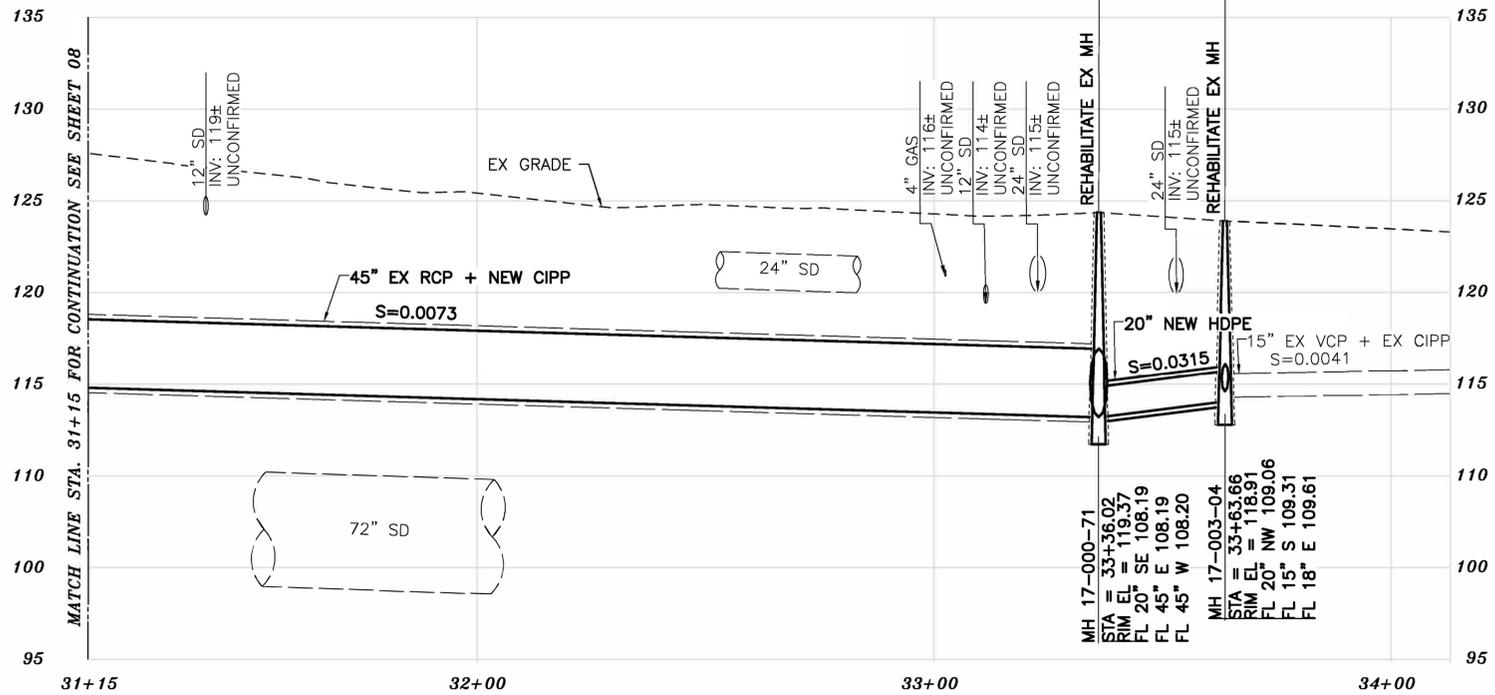
FOR CITY USE ONLY
 REFERENCE SEWER MAP NO.

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FOR CONTINUATION
SEE SHEET 08

REHABILITATE 293± LF EX 45" RCP SS PIPE
(MH TO MH)(METHOD A)

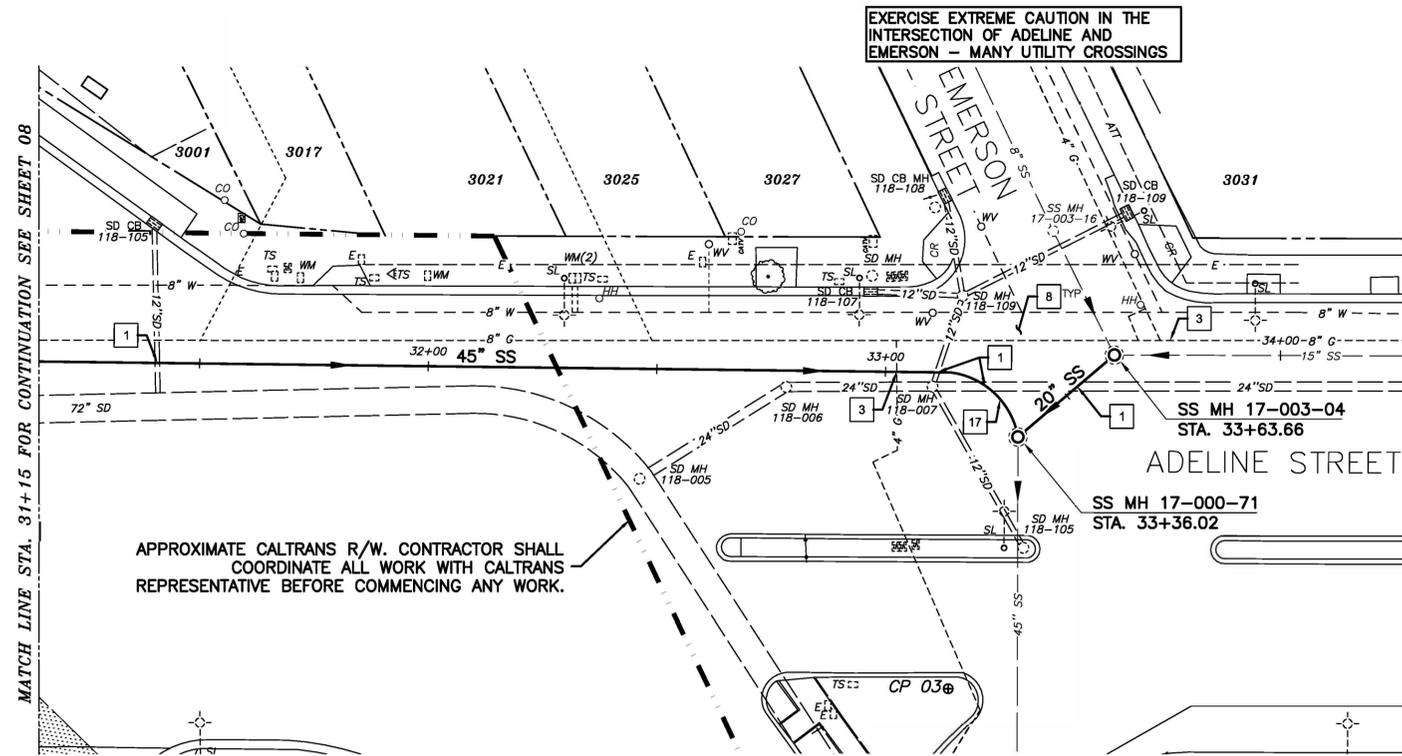
REPLACE 28± LF EX 18" RCP SS PIPE
(MH TO MH)(METHOD B OR C)



PROFILE

CONSTRUCTION KEY NOTES

- 1 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX STORM DRAIN FACILITIES. COORDINATE WORK WITH CITY OF BERKELEY.
- 3 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX GAS/ELECTRIC FACILITIES. COORDINATE WORK WITH PG&E.
- 8 REPLACE EX BIKE LANE STRIPING, SIGNING, AND TRAFFIC DEVICES IF REMOVED/DAMAGED BY SEWER INSTALLATION. FOR CROSSWALK AND OTHER TRAFFIC MARKINGS, REPLACE/RESTORE ENTIRE WIDTH OF CROSSWALK AND TRAFFIC MARKINGS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- 17 EXERCISE EXTREME CAUTION WHEN INSTALLING CIPP LINING ALONG RADIAL BENDS TO MINIMIZE CREASING.



PLAN

NOTES:

- 1. FOR GENERAL NOTES SEE SHEET 3 OF THE PLANS.
- 2. LOWER LATERALS ARE SHOWN BASED ON CCTV, SURVEY DATA, AND RECORD INFORMATION. LOWER LATERALS ARE SHOWN IN DASHED LINE WHERE UNCONFIRMED BY CCTV OR SURVEY DATA. LOWER LATERALS COULD NOT BE DETERMINED AS ACTIVE OR ABANDONED DURING THE PREPARATION OF THESE PLANS. PRIOR TO SEWER MAIN REHABILITATION AND ANY LATERAL RECONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY ALL LATERALS AS ACTIVE OR ABANDONED AND COORDINATE FINDINGS WITH THE ENGINEER.
- 3. RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
- 4. IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. EXISTING UTILITY INFORMATION SHOWN HEREIN IS FOR INFORMATION PURPOSES ONLY. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
- 5. ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
- 6. CONTRACTOR SHALL COORDINATE WITH BOTH PG&E AND EBMUD TO LOCATE FACILITIES. AT THE DISCRETION OF PG&E AND EBMUD, A SPECIAL INSPECTOR MAY BE REQUIRED TO OBSERVE WORK ADJACENT TO AN EXISTING PG&E OR EBMUD FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
- 7. SANITARY SEWER PIPES ARE SHOWN BASED ON RECORD INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. ACTUAL DIMENSIONS AND PIPE SIZES MAY VARY. CONTRACTOR TO VERIFY ALL SANITARY SEWER DIMENSIONS AND PIPE SIZES PRIOR TO COMMENCING WORK AND PROCURING MATERIALS.
- 8. SPOT REPAIRS ARE SHOWN BASED ON CCTV. PRIOR TO SEWER MAIN REHABILITATION, THE CONTRACTOR SHALL VERIFY LOCATIONS OF SPOT REPAIRS AND PERFORM SPOT REPAIRS AS NEEDED.

SANITARY SEWER LAYOUT - ADELIN

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
31+15.00	2138543.96	6050997.44	S18°23'01.90"W	221.19	MATCH LINE
33+36.02	2138344.97	6050916.69	S22°34'17.96"E	27.63	MH 17-000-71
33+63.66	2138319.45	6050927.30	---	---	MH 17-003-04



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PROJECT MANAGER: DATE 12/09/24
FELIX MENEAU, ASSOCIATE CIVIL ENGINEER

DEPICTION OF MONUMENTS: DATE 12/09/24
BAIRD BARTON, SURVEY PARTY CHIEF

SUBMITTED: DATE 12/09/24
R.C.E. 37829
EXP. 04/2025
DANIEL AKAGI, SUPERVISING CIVIL ENGINEER

DESIGN MA
DRAWN DC
CHECK TH
AS BUILT
DATE 12/09/24

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
ADELIN STREET 1
45"-48"-18" SS
PLAN AND PROFILE

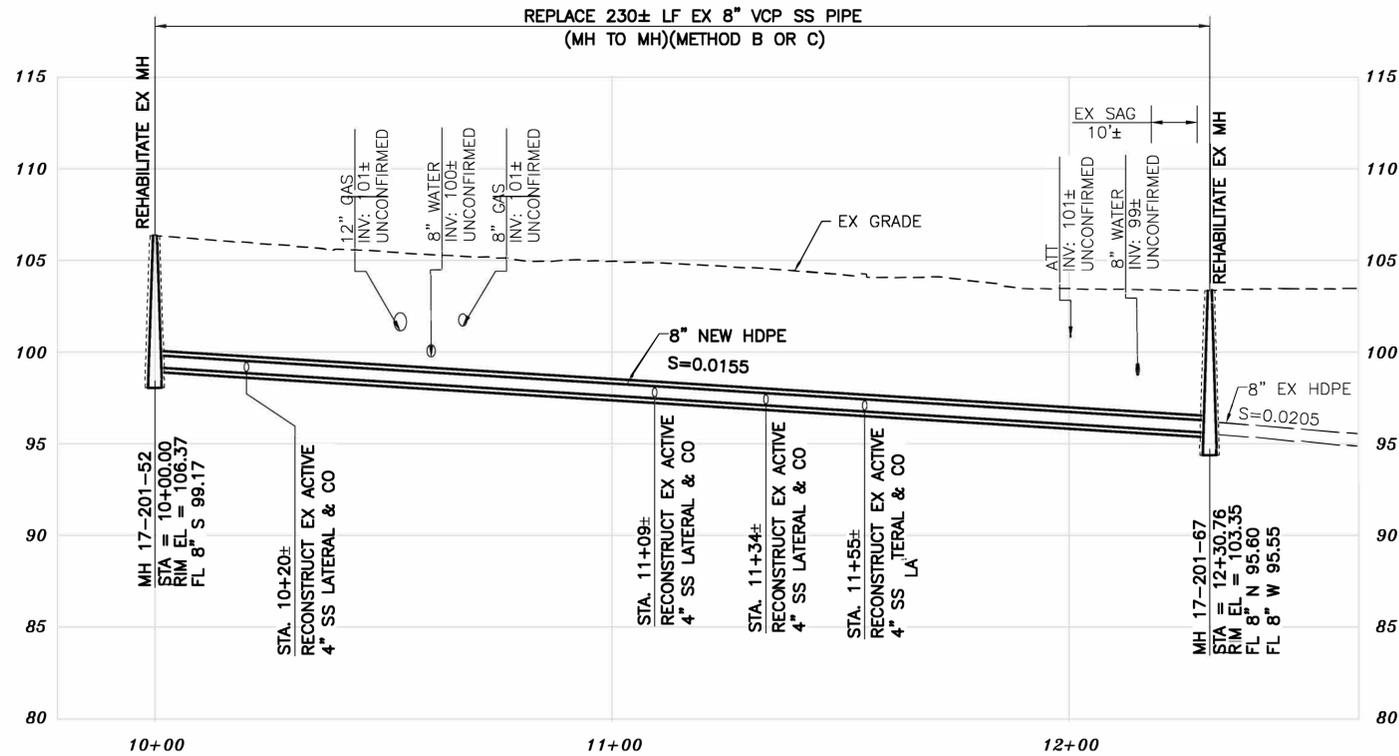
PLAN NO.: 8292
FILE NO.: 502-822
SHEET 09 OF 29

FOR CITY USE ONLY
REFERENCE SEWER MAP NO.

WATERSHED REVIEW: DATE 12/09/24
RONALD NEVELS, CITY ENGINEER

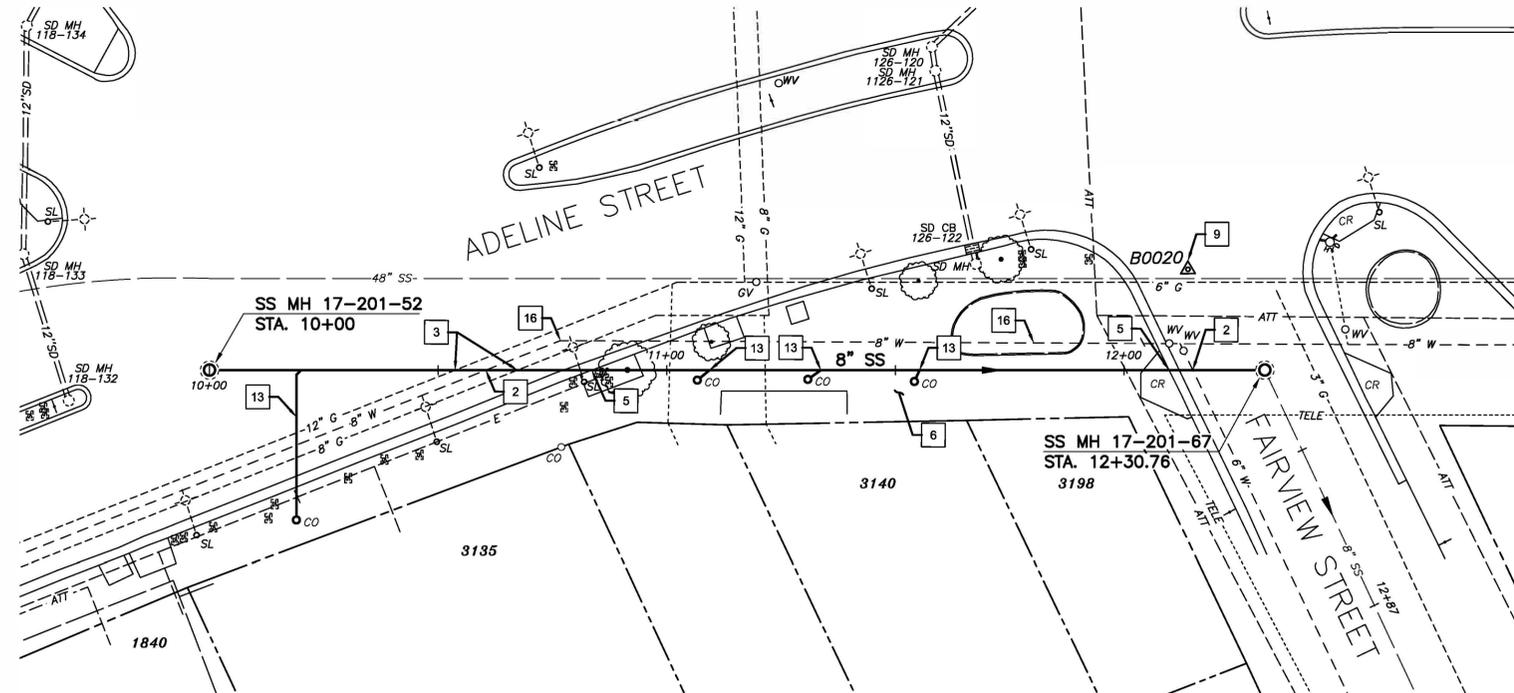
APPROVAL
DESCRIPTION
DATE
MARK
REVISION

K:\Projects\2024\240078 Berkeley Sewer Rehabilitation Project\03 - Plan Sheets\05 ADELIN STREET 2.dwg [10 C3.0] 12-09-24 01:46:29 PM dchoy



CONSTRUCTION KEY NOTES

- 2 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX WATER FACILITIES AND COORDINATE ALL CONSTRUCTION ACTIVITIES WITH EBMUD. AT ALL CROSSINGS LESS THAN 3- FEET SEPARATION, THE CONTRACTOR SHALL EXPOSE EX EBMUD WATER FACILITIES AS DIRECTED BY EBMUD TO ENSURE PIPE SPLITTING IS NOT AFFECTING THE PIPE ALIGNMENT OR CREATING LEAKS AT JOINTS.
- 3 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX GAS/ELECTRIC FACILITIES. COORDINATE WORK WITH PG&E.
- 5 RECONSTRUCT PORTIONS OF EX CURB AND GUTTER IF REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NO. 8145
- 6 RECONSTRUCT PORTIONS OF EX SIDEWALK IF REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NO. 8153.
- 9 RECONSTRUCT EX MONUMENT REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NOS. 8090 & 8091.
- 13 CONTRACTOR SHALL VERIFY STATUS OF EX SANITARY SEWER LOWER LATERAL. RECONSTRUCT ACTIVE LATERAL OR PROPERLY ABANDON IF INACTIVE.
- 16 THE CONTRACTOR SHALL POTHOLE EXISTING WATER FACILITIES AND DEMONSTRATE THAT EXISTING EBMUD WATER FACILITIES ARE OUTSIDE THE ZONE OF INFLUENCE FOR GROUND MOVEMENT CAUSED BY PIPE SPLITTING. THE ZONE OF INFLUENCE FOR GROUND MOVEMENT CAUSED BY PIPE SPLITTING SHALL BE DETERMINED BY SUBTRACTING THE INSIDE DIAMETER OF THE EX PIPE FROM THE OUTSIDE DIAMETER OF THE EXPANDER HEAD AND MULTIPLYING BY TEN (PIPE BURSTING GOOD PRACTICES GUIDELINES, NASTT). THESE FINDINGS SHALL BE PROVIDED TO THE CITY AND REVIEWED BY EBMUD PRIOR TO THE START OF CONSTRUCTION.



NOTES:

1. FOR GENERAL NOTES SEE SHEET 3 OF THE PLANS.
2. LOWER LATERALS ARE SHOWN BASED ON CCTV, SURVEY DATA, AND RECORD INFORMATION. LOWER LATERALS ARE SHOWN IN DASHED LINE WHERE UNCONFIRMED BY CCTV OR SURVEY DATA. LOWER LATERALS COULD NOT BE DETERMINED AS ACTIVE OR ABANDONED DURING THE PREPARATION OF THESE PLANS. PRIOR TO SEWER MAIN REHABILITATION AND ANY LATERAL RECONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY ALL LATERALS AS ACTIVE OR ABANDONED AND COORDINATE FINDINGS WITH THE ENGINEER.
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SANITARY SEWER LAYOUT - ADELIN

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
10+00.00	2137259.76	6050435.47	S17°41'26.17"W	230.77	MH 17-201-52
12+30.76	2137039.91	6050365.35	---	---	MH 17-201-67

FOR CITY USE ONLY
REFERENCE SEWER MAP NO.



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PROJECT MANAGER: DATE 12/09/24
FELIX MENEAU, ASSOCIATE CIVIL ENGINEER
BAIRD BARTON, SURVEY PARTY CHIEF
WATERSHED REVIEW: DATE 12/09/24

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DANIEL AKAGI, SUPERVISING CIVIL ENGINEER
APPROVED: DATE 12/09/24
RONALD NEVELS, CITY ENGINEER

SUBMITTED: DATE 12/09/24
R.C.E. 37829
EXP. 04/2025
DRAWN: DC
CHECK: TH
AS BUILT: _____

DESIGN: MA
DRAWN: DC
CHECK: TH
AS BUILT: _____
DATE 12/09/24

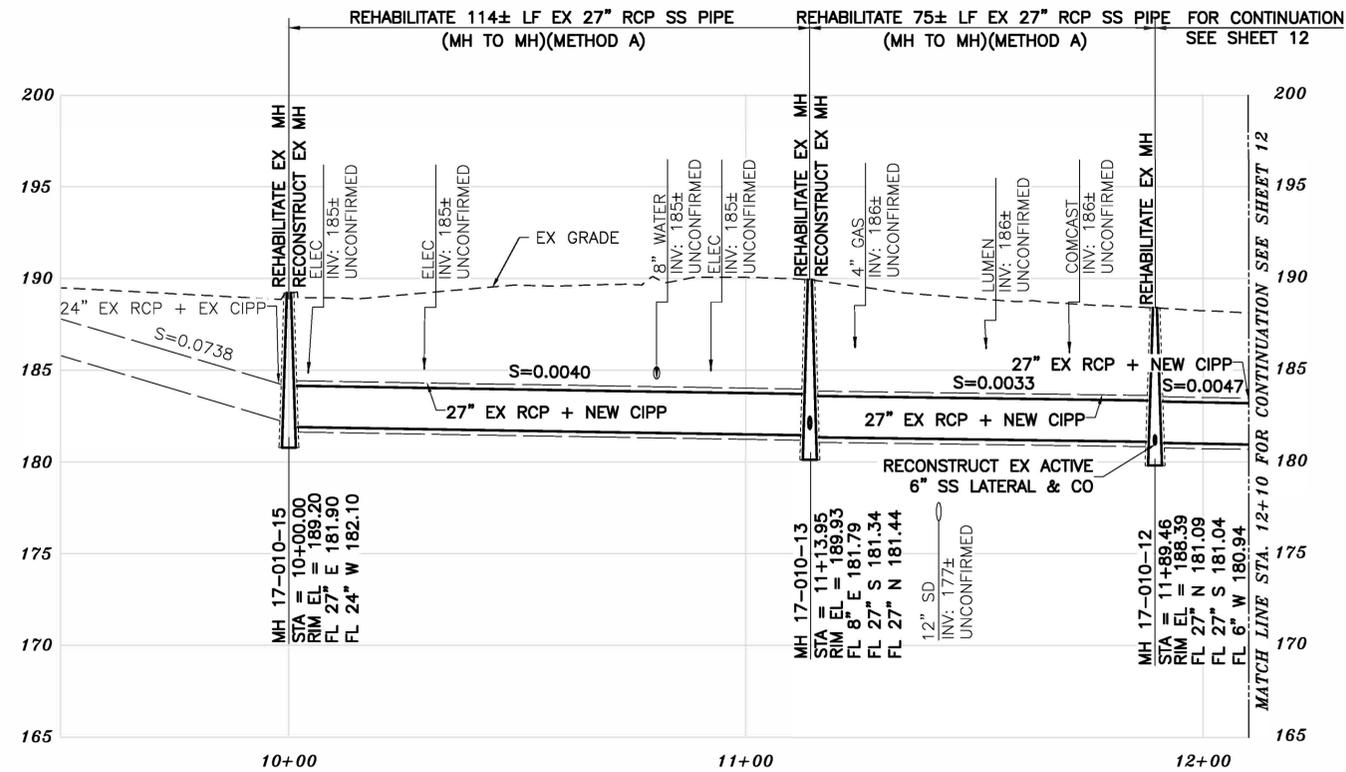
CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
ADELIN STREET 2
8" SS
PLAN AND PROFILE

PLAN NO.: 8292
FILE NO.: 502-822
SHEET 10 OF 29

REVISION	MARK	DATE	DESCRIPTION	APPROVAL

K:\Projects\2024\240078 Berkeley Sewer Rehabilitation Project\03 - Plan Sheets\09 KALA BAGAI WAY.dwg [11 C4.0] 12-09-24 01:46:39 PM dchoy



PROFILE

CONSTRUCTION KEY NOTES

- 1 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX STORM DRAIN FACILITIES. COORDINATE WORK WITH CITY OF BERKELEY.
- 2 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX WATER FACILITIES. COORDINATE WORK WITH EBMUD.
- 3 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX GAS/ELECTRIC FACILITIES. COORDINATE WORK WITH PG&E.
- 5 RECONSTRUCT PORTIONS OF EX CURB AND GUTTER IF REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NO. 8145
- 6 RECONSTRUCT PORTIONS OF EX SIDEWALK IF REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NO. 8153.
- 13 CONTRACTOR SHALL VERIFY STATUS OF EX SANITARY SEWER LOWER LATERAL. RECONSTRUCT ACTIVE LATERAL OR PROPERLY ABANDON IF INACTIVE.
- 17 EXERCISE EXTREME CAUTION WHEN INSTALLING CIPP LINING ALONG RADIAL BENDS TO MINIMIZE CREASING.

LEGEND

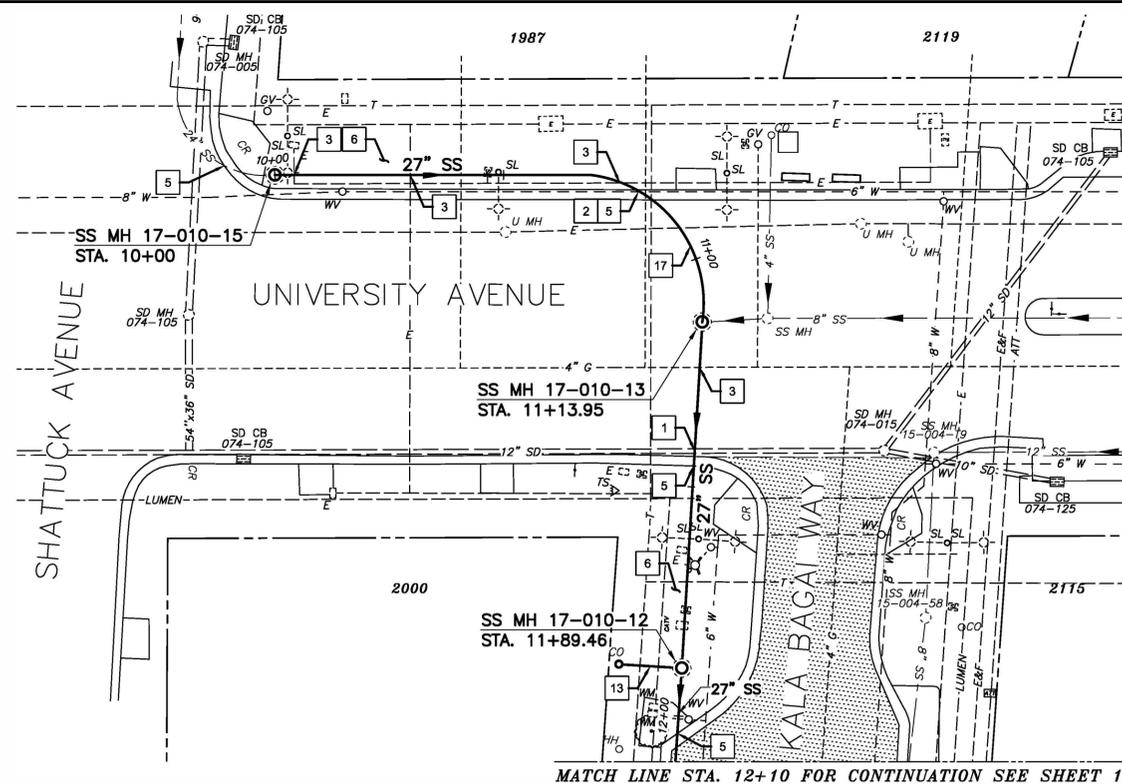
- PAVEMENT MORATORIUM AREA
- KALA BAGAI WAY (UNIVERSITY AVENUE - CENTER STREET) 6/30/2020 THROUGH 6/30/2025

PAVEMENT MORATORIUM NOTES

1. EXCAVATION OR PAVEMENT CUTS WITHIN A DESIGNATED PAVEMENT MORATORIUM AREA SHALL BE RESTORED PER CITY OF BERKELEY STANDARD DETAIL 8136 AS SHOWN IN THE PLANS AND SPECIFICATIONS.

NOTES:

1. FOR GENERAL NOTES SEE SHEET 3 OF THE PLANS.
2. LOWER LATERALS ARE SHOWN BASED ON CCTV, SURVEY DATA, AND RECORD INFORMATION. LOWER LATERALS ARE SHOWN IN DASHED LINE WHERE UNCONFIRMED BY CCTV OR SURVEY DATA. LOWER LATERALS COULD NOT BE DETERMINED AS ACTIVE OR ABANDONED DURING THE PREPARATION OF THESE PLANS. PRIOR TO SEWER MAIN REHABILITATION AND ANY LATERAL RECONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY ALL LATERALS AS ACTIVE OR ABANDONED AND COORDINATE FINDINGS WITH THE ENGINEER.
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PLAN

SANITARY SEWER LAYOUT - KALA BAGAI WAY

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
10+00.00	2144892.43	6051304.94	N81°58'15.88"E	98.80	MH 17-010-15
11+13.95	2144873.67	6051401.99	S4°37'52.72"E	75.47	MH 17-010-13
11+89.46	2144798.44	6051408.08	S4°03'37.00"E	35.65	MH 17-010-12
12+10.00	2144762.88	6051410.61	---	---	MATCH LINE

FOR CITY USE ONLY
REFERENCE SEWER MAP NO.



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PROJECT MANAGER: DATE 12/09/24
FELIX MENEAU, ASSOCIATE CIVIL ENGINEER

DEPICTION OF MONUMENTS: DATE 12/09/24
BAIRD BARTON, SURVEY PARTY CHIEF

SUBMITTED: DATE 12/09/24
DANIEL AKAGI, SUPERVISING CIVIL ENGINEER
R.C.E. 37829
EXP. 04/2025

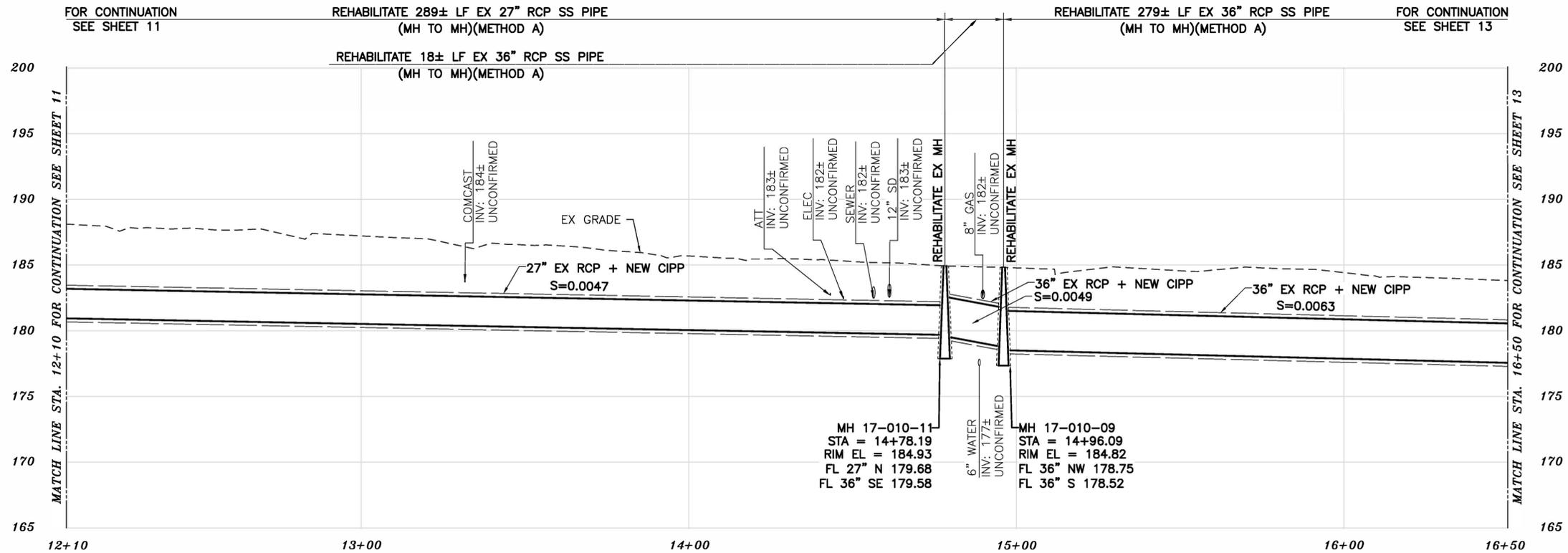
DESIGN MA
DRAWN DC
CHECK TH
AS BUILT
DATE 12/09/24

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
KALA BAGAI WAY
27" SS
PLAN AND PROFILE

PLAN NO.: 8292
FILE NO.: 502-822
SHEET 11 OF 29

APPROVAL
DESCRIPTION
DATE
MARK
REVISION



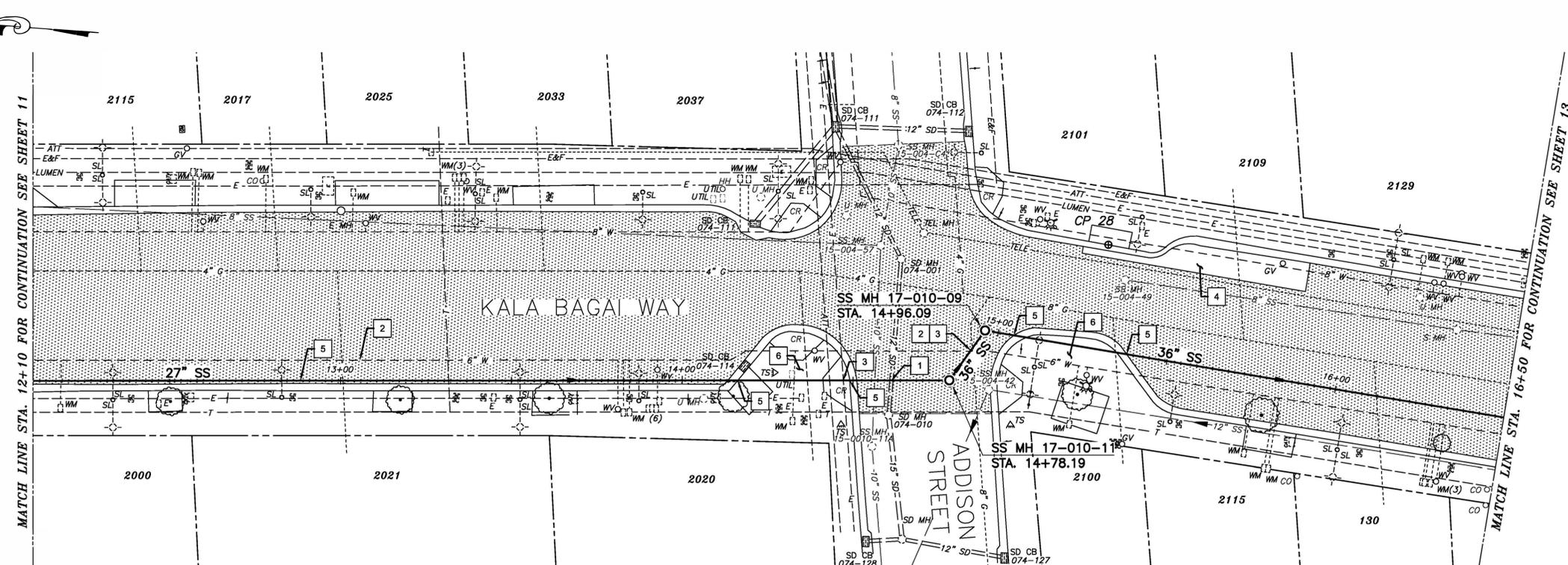
PROFILE

- CONSTRUCTION KEY NOTES**
- EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX STORM DRAIN FACILITIES. COORDINATE WORK WITH CITY OF BERKELEY.
 - EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX WATER FACILITIES. COORDINATE WORK WITH EBMUD.
 - EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX GAS/ELECTRIC FACILITIES. COORDINATE WORK WITH PG&E.
 - RECONSTRUCT PORTIONS OF EX CONCRETE BUS PAD IF REMOVED/DAMAGED BY SEWER INSTALLATION.
 - RECONSTRUCT PORTIONS OF EX CURB AND GUTTER IF REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NO. 8145
 - RECONSTRUCT PORTIONS OF EX SIDEWALK IF REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NO. 8153.

- LEGEND**
- PAVEMENT MORATORIUM AREA
 - KALA BAGAI WAY (UNIVERSITY AVENUE - CENTER STREET) 6/30/2020 THROUGH 6/30/2025

- PAVEMENT MORATORIUM NOTES**
- EXCAVATION OR PAVEMENT CUTS WITHIN A DESIGNATED PAVEMENT MORATORIUM AREA SHALL BE RESTORED PER CITY OF BERKELEY STANDARD DETAIL 8136 AS SHOWN IN THE PLANS AND SPECIFICATIONS.

- NOTES:**
- FOR GENERAL NOTES SEE SHEET 3 OF THE PLANS.
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PLAN

EXERCISE EXTREME CAUTION IN THE INTERSECTION OF KALA BAGAI AND ADDISON - MANY UTILITY CROSSINGS

SANITARY SEWER LAYOUT - KALA BAGAI WAY

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
12+10.00	2144762.88	8051410.61	S4°03'37.00"E	253.04	MATCH LINE
14+78.19	2144510.48	8051428.52	S58°15'46.57"E	17.90	MH 17-010-11
14+96.09	2144501.06	8051443.75	S5°28'59.21"W	153.83	MH 17-010-09
16+50.00	2144347.92	8051429.14	---	---	MATCH LINE

K:\Projects\2024\240078 Berkeley Sewer Rehabilitation Project\03 - Plan Sheets\09 KALA BAGAI WAY.dwg [12 C4.1] 12-09-24 01:46:45 PM dchoy

925-685-4599

PROJECT MANAGER: DATE 12/09/24

DEPICTION OF MONUMENTS: DATE 12/09/24

WATERSHED REVIEW: DATE 12/09/24

DESIGN: MA

HORIZ. 1"=20'

VERT. 1"=5'

BOOK

DATE 12/09/24

CITY OF BERKELEY

DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION

KALA BAGAI WAY

27"-36" SS

PLAN AND PROFILE

PLAN NO.: 8292

FILE NO.: 502-822

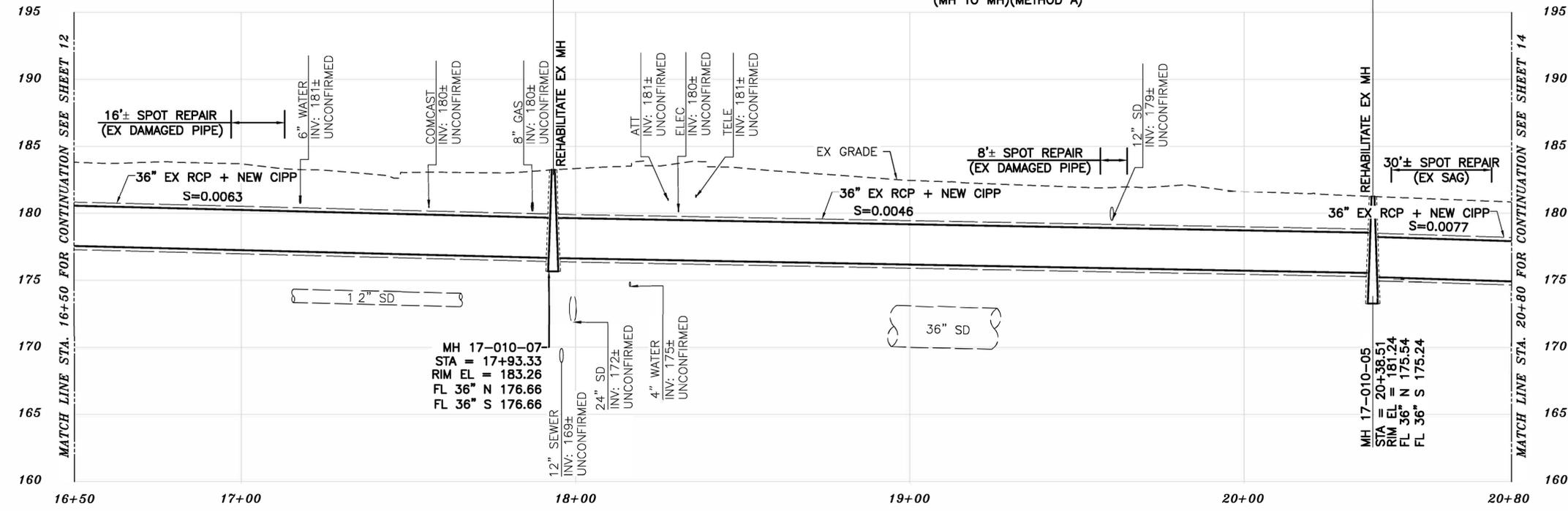
SHEET 12 OF 29

FOR CONTINUATION
SEE SHEET 12

REHABILITATE 245± LF EX 36" RCP SS PIPE
(MH TO MH)(METHOD A)

REHABILITATE 150± LF EX 36" RCP SS PIPE
(MH TO MH)(METHOD A)

FOR CONTINUATION
SEE SHEET 14



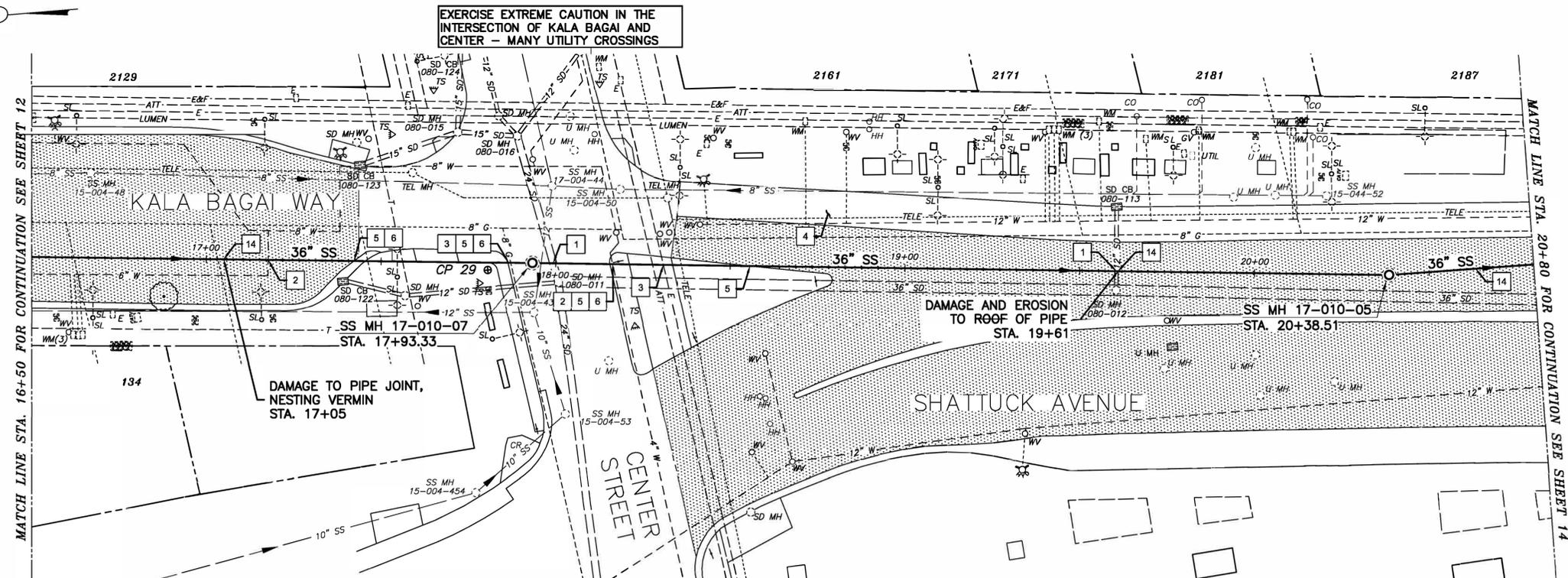
PROFILE

- CONSTRUCTION KEY NOTES**
- EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX STORM DRAIN FACILITIES. COORDINATE WORK WITH CITY OF BERKELEY.
 - EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX WATER FACILITIES. COORDINATE WORK WITH EBMUD.
 - EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX GAS/ELECTRIC FACILITIES. COORDINATE WORK WITH PG&E.
 - RECONSTRUCT PORTIONS OF EX CONCRETE BUS PAD IF REMOVED/DAMAGED BY SEWER INSTALLATION.
 - RECONSTRUCT PORTIONS OF EX CURB AND GUTTER IF REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NO. 8145
 - RECONSTRUCT PORTIONS OF EX SIDEWALK IF REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NO. 8153.
 - CONTRACTOR SHALL PERFORM SPOT REPAIR TO CORRECT EX SAG, REPAIR DAMAGED PIPE, OR REMOVE ROOT INTRUSION PRIOR TO CIPP INSTALLATION.

- LEGEND**
- PAVEMENT MORATORIUM AREA
KALA BAGAI WAY (UNIVERSITY AVENUE - CENTER STREET)
6/30/2020 THROUGH 6/30/2025
 - PAVEMENT MORATORIUM AREA
SHATTUCK AVENUE (CENTER STREET - ALLSTON WAY)
6/30/2020 THROUGH 6/30/2025

- PAVEMENT MORATORIUM NOTES**
- EXCAVATION OR PAVEMENT CUTS WITHIN A DESIGNATED PAVEMENT MORATORIUM AREA SHALL BE RESTORED PER CITY OF BERKELEY STANDARD DETAIL 8136 AS SHOWN IN THE PLANS AND SPECIFICATIONS.

- NOTES:**
- FOR GENERAL NOTES SEE SHEET 3 OF THE PLANS.
 - LOWER LATERALS ARE SHOWN BASED ON CCTV, SURVEY DATA, AND RECORD INFORMATION. LOWER LATERALS ARE SHOWN IN DASHED LINE WHERE UNCONFIRMED BY CCTV OR SURVEY DATA. LOWER LATERALS COULD NOT BE DETERMINED AS ACTIVE OR ABANDONED DURING THE PREPARATION OF THESE PLANS. PRIOR TO SEWER MAIN REHABILITATION AND ANY LATERAL RECONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY ALL LATERALS AS ACTIVE OR ABANDONED AND COORDINATE FINDINGS WITH THE ENGINEER.
 - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
 - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. EXISTING UTILITY INFORMATION SHOWN HEREIN IS FOR INFORMATION PURPOSES ONLY. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
 - ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL COORDINATE WITH BOTH PG&E AND EBMUD TO LOCATE FACILITIES. AT THE DISCRETION OF PG&E AND EBMUD, A SPECIAL INSPECTOR MAY BE REQUIRED TO OBSERVE WORK ADJACENT TO AN EXISTING PG&E OR EBMUD FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
 - SANITARY SEWER PIPES ARE SHOWN BASED ON RECORD INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. ACTUAL DIMENSIONS AND PIPE SIZES MAY VARY. CONTRACTOR TO VERIFY ALL SANITARY SEWER DIMENSIONS AND PIPE SIZES PRIOR TO COMMENCING WORK AND PROCURING MATERIALS.
 - SPOT REPAIRS ARE SHOWN BASED ON CCTV. PRIOR TO SEWER MAIN REHABILITATION, THE CONTRACTOR SHALL VERIFY LOCATIONS OF SPOT REPAIRS AND PERFORM SPOT REPAIRS AS NEEDED.



PLAN

SANITARY SEWER LAYOUT - KALA BAGAI WAY

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
16+50.00	2144347.92	6051429.14	S5°26'59.21"W	143.41	MATCH LINE
17+93.33	2144205.16	6051415.52	S5°32'21.26"W	245.17	MH 17-010-07
20+38.51	2143961.13	6051391.85	S0°38'49.08"W	41.50	MH 17-010-05
20+80.00	2143919.64	6051391.39	---	---	MATCH LINE

K:\Projects\2024\240078 Berkeley Sewer Rehabilitation Project\03 - Plan Sheets\09 KALA BAGAI WAY.dwg [13 C4.2] 12-09-24 01:46:50 PM dchoy



PROJECT MANAGER: DATE 12/09/24
 DEPICTION OF MONUMENTS: DATE 12/09/24
 SUBMITTED: DATE 12/09/24
 R.C.E. 37829
 EXP. 04/2025
 DESIGN MA
 HORIZ. 1"=20'
 VERT. 1"=5'
 DRAWN DC
 CHECK TH
 BOOK
 AS BUILT
 DATE 12/09/24

BAIRD BARTON, SURVEY PARTY CHIEF
 DANIEL AKAGI, SUPERVISING CIVIL ENGINEER
 APPROVED: DATE 12/09/24
 R.C.E. 62524
 EXP. 10/2025
 RONALD NEVELS, CITY ENGINEER

DESIGN MA
 HORIZ. 1"=20'
 VERT. 1"=5'
 DRAWN DC
 CHECK TH
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 DATE 12/09/24

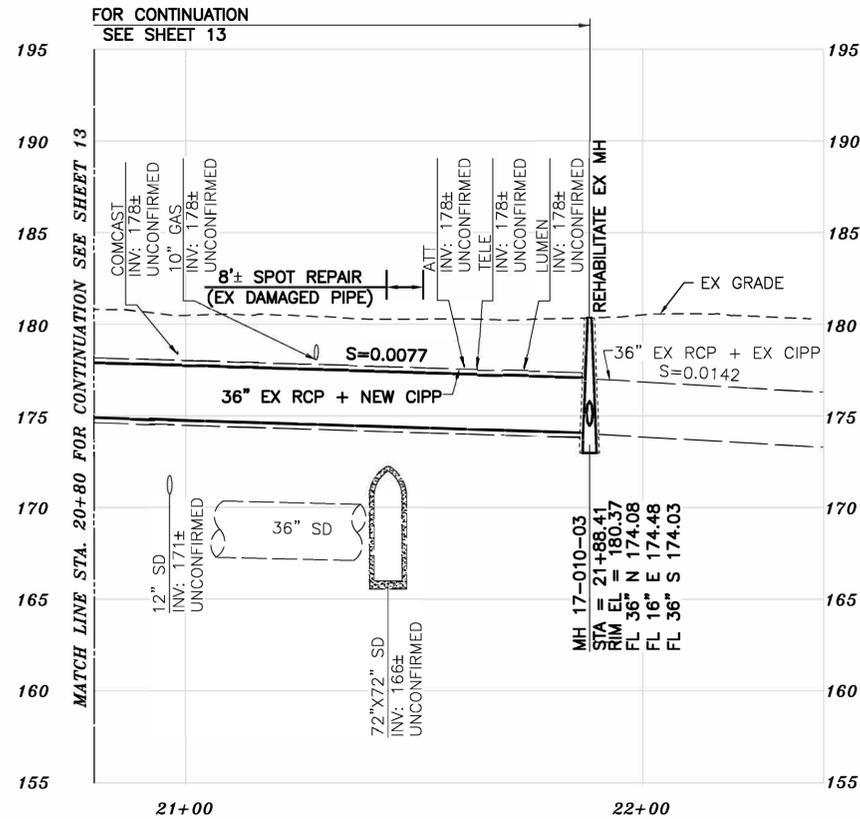
CITY OF BERKELEY
 DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
 KALA BAGAI WAY
 36" SS
 PLAN AND PROFILE

PLAN NO.: 8292
 FILE NO.: 502-822
 SHEET 13 OF 29

FOR CITY USE ONLY
 REFERENCE SEWER MAP NO.

K:\Projects\2024\240078 Berkeley Sewer Rehabilitation Project\03 - Plan Sheets\09 KALA BAGAI WAY.dwg [14 C4.3] 12-09-24 01:46:55 PM dchoy



PROFILE

CONSTRUCTION KEY NOTES

- 1 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX STORM DRAIN FACILITIES. COORDINATE WORK WITH CITY OF BERKELEY.
- 3 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX GAS/ELECTRIC FACILITIES. COORDINATE WORK WITH PG&E.
- 4 RECONSTRUCT PORTIONS OF EX CONCRETE BUS PAD IF REMOVED/DAMAGED BY SEWER INSTALLATION.
- 14 CONTRACTOR SHALL PERFORM SPOT REPAIR TO CORRECT EX SAG, REPAIR DAMAGED PIPE, OR REMOVE ROOT INTRUSION PRIOR TO CIPP INSTALLATION.

LEGEND

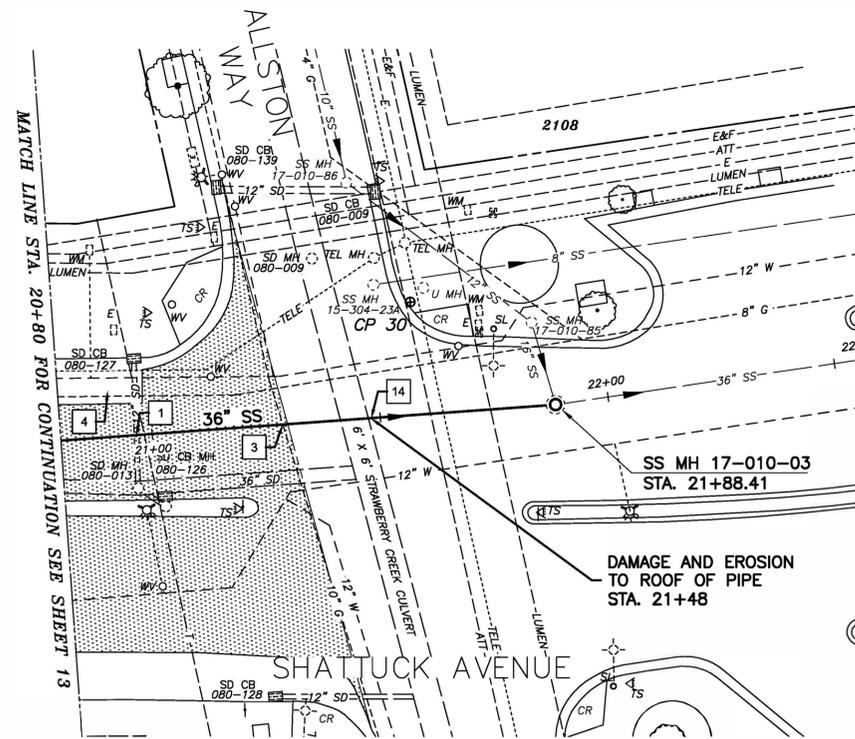
- PAVEMENT MORATORIUM AREA
- KALA BAGAI WAY (UNIVERSITY AVENUE - CENTER STREET) 6/30/2020 THROUGH 6/30/2025

PAVEMENT MORATORIUM NOTES

1. EXCAVATION OR PAVEMENT CUTS WITHIN A DESIGNATED PAVEMENT MORATORIUM AREA SHALL BE RESTORED PER CITY OF BERKELEY STANDARD DETAIL 8136 AS SHOWN IN THE PLANS AND SPECIFICATIONS.

NOTES:

1. FOR GENERAL NOTES SEE SHEET 3 OF THE PLANS.
2. LOWER LATERALS ARE SHOWN BASED ON CCTV, SURVEY DATA, AND RECORD INFORMATION. LOWER LATERALS ARE SHOWN IN DASHED LINE WHERE UNCONFIRMED BY CCTV OR SURVEY DATA. LOWER LATERALS COULD NOT BE DETERMINED AS ACTIVE OR ABANDONED DURING THE PREPARATION OF THESE PLANS. PRIOR TO SEWER MAIN REHABILITATION AND ANY LATERAL RECONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY ALL LATERALS AS ACTIVE OR ABANDONED AND COORDINATE FINDINGS WITH THE ENGINEER.
3. RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
4. IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. EXISTING UTILITY INFORMATION SHOWN HEREIN IS FOR INFORMATION PURPOSES ONLY. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
5. ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL COORDINATE WITH BOTH PG&E AND EBMUD TO LOCATE FACILITIES. AT THE DISCRETION OF PG&E AND EBMUD, A SPECIAL INSPECTOR MAY BE REQUIRED TO OBSERVE WORK ADJACENT TO AN EXISTING PG&E OR EBMUD FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
7. SANITARY SEWER PIPES ARE SHOWN BASED ON RECORD INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. ACTUAL DIMENSIONS AND PIPE SIZES MAY VARY. CONTRACTOR TO VERIFY ALL SANITARY SEWER DIMENSIONS AND PIPE SIZES PRIOR TO COMMENCING WORK AND PROCURING MATERIALS.
8. SPOT REPAIRS ARE SHOWN BASED ON CCTV. PRIOR TO SEWER MAIN REHABILITATION, THE CONTRACTOR SHALL VERIFY LOCATIONS OF SPOT REPAIRS AND PERFORM SPOT REPAIRS AS NEEDED.



PLAN

EXERCISE EXTREME CAUTION IN THE INTERSECTION OF SHATTUCK AND ALLSTON - MANY UTILITY CROSSINGS

SANITARY SEWER LAYOUT - SHATTUCK AVENUE

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
20+80.00	2143919.64	6051391.39	S0°35'45.29"W	108.27	MATCH LINE
21+88.41	2143811.37	6051390.16	---	---	MH 17-010-03

FOR CITY USE ONLY
REFERENCE SEWER MAP NO.



Bellecci
Intelligent Infrastructure
925-885-4599
bellecci.com

PROJECT MANAGER: DATE 12/09/24
FELIX MENEAU, ASSOCIATE CIVIL ENGINEER

DEPICTION OF MONUMENTS: DATE 12/09/24
BAIRD BARTON, SURVEY PARTY CHIEF

SUBMITTED: DATE 12/09/24
R.C.E. 37829
EXP. 04/2025
DANIEL AKAGI, SUPERVISING CIVIL ENGINEER

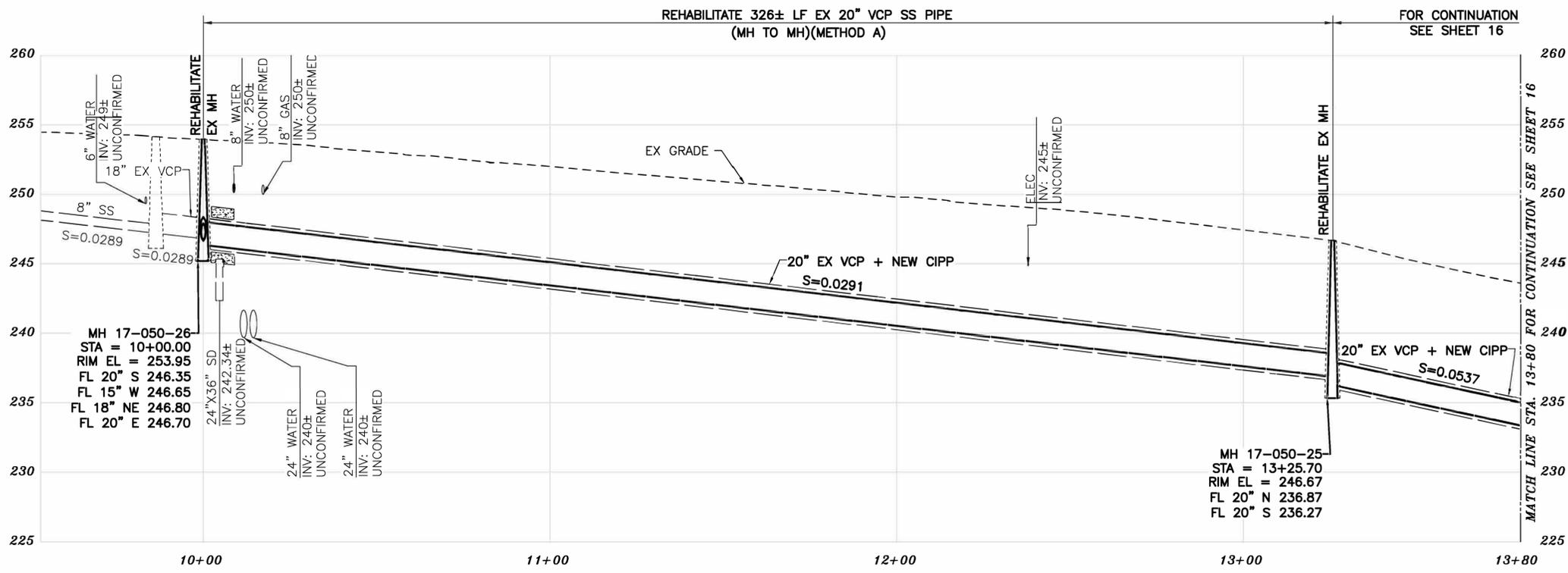
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DATE 12/09/24

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
SHATTUCK AVENUE
36" SS
PLAN AND PROFILE

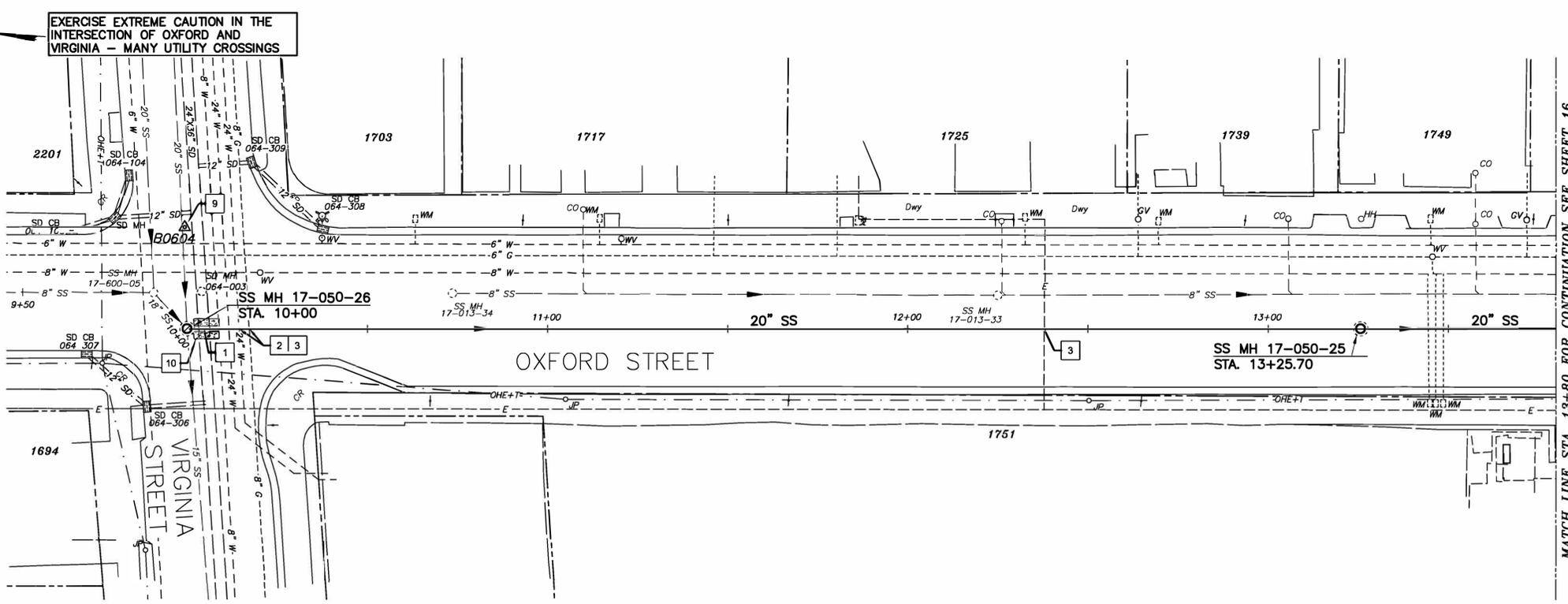
PLAN NO.: 8292
FILE NO.: 502-822
SHEET 14 OF 29

APPROVAL
DESCRIPTION
DATE
MARK
REVISION



PROFILE

- CONSTRUCTION KEY NOTES**
- 1 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX STORM DRAIN FACILITIES. COORDINATE WORK WITH CITY OF BERKELEY.
 - 2 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX WATER FACILITIES. COORDINATE WORK WITH EBMUD.
 - 3 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX GAS/ELECTRIC FACILITIES. COORDINATE WORK WITH PG&E.
 - 9 RECONSTRUCT EX MONUMENT REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NOS. 8090 & 8091.
 - 10 PROTECT IN PLACE EX CONCRETE ENCASUREMENT. REPLACE AS REQUIRED PER DETAIL 5 ON SHEET 28



PLAN

SANITARY SEWER LAYOUT - OXFORD

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
10+00.00	2146572.05	8051784.77	S4°06'58.27"E	325.83	MH 17-050-26
13+25.70	2146247.06	8051808.16	S4°10'40.19"E	54.17	MH 17-050-25
13+80.00	2146193.03	8051812.11	---	---	MATCH LINE

- NOTES:**
1. FOR GENERAL NOTES SEE SHEET 3 OF THE PLANS.
 2. LOWER LATERALS ARE SHOWN BASED ON CCTV, SURVEY DATA, AND RECORD INFORMATION. LOWER LATERALS ARE SHOWN IN DASHED LINE WHERE UNCONFIRMED BY CCTV OR SURVEY DATA. LOWER LATERALS COULD NOT BE DETERMINED AS ACTIVE OR ABANDONED DURING THE PREPARATION OF THESE PLANS. PRIOR TO SEWER MAIN REHABILITATION AND ANY LATERAL RECONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY ALL LATERALS AS ACTIVE OR ABANDONED AND COORDINATE FINDINGS WITH THE ENGINEER.
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 8. SPOT REPAIRS ARE SHOWN BASED ON CCTV. PRIOR TO SEWER MAIN REHABILITATION, THE CONTRACTOR SHALL VERIFY LOCATIONS OF SPOT REPAIRS AND PERFORM SPOT REPAIRS AS NEEDED.

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PROJECT MANAGER: DATE 12/09/24
 FELIX MENEAU, ASSOCIATE CIVIL ENGINEER
 BAIRD BARTON, SURVEY PARTY CHIEF
 WATERSHED REVIEW: DATE 12/09/24

DEPICTION OF MONUMENTS: DATE 12/09/24
 DANIEL AKAGI, SUPERVISING CIVIL ENGINEER
 APPROVED: DATE 12/09/24
 RONALD NEVELS, CITY ENGINEER

SUBMITTED: DATE 12/09/24
 R.C.E. 37829
 EXP. 04/2025
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 CHECK TH
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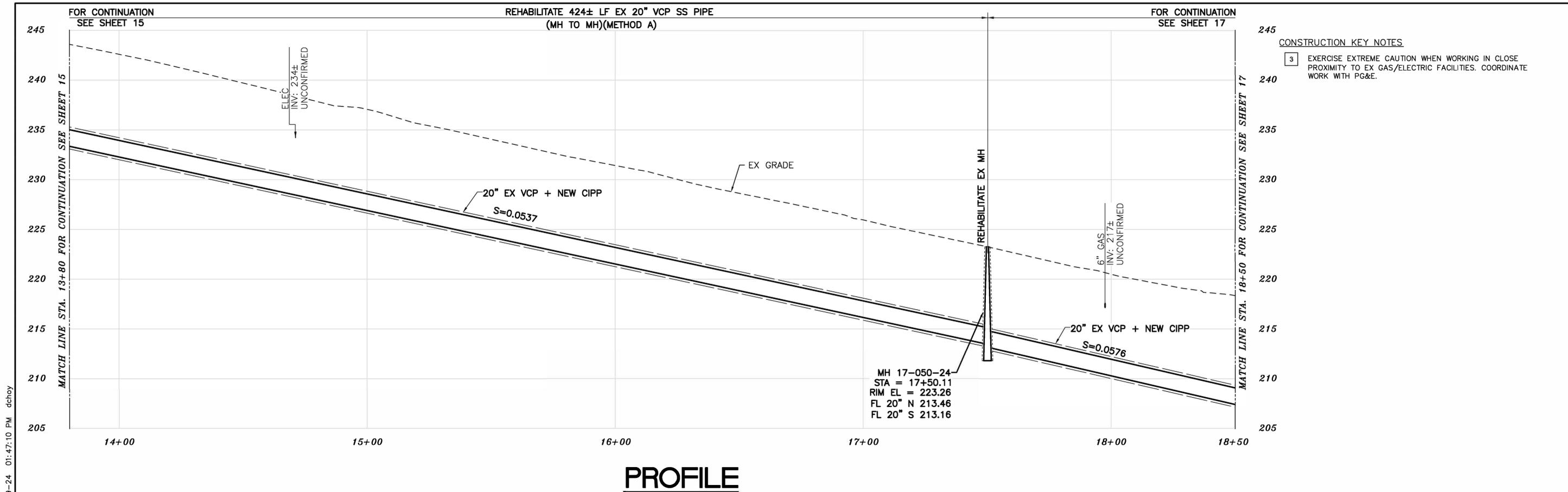
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 DATE 12/09/24

CITY OF BERKELEY
 DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
OXFORD STREET
20" SS
 PLAN AND PROFILE

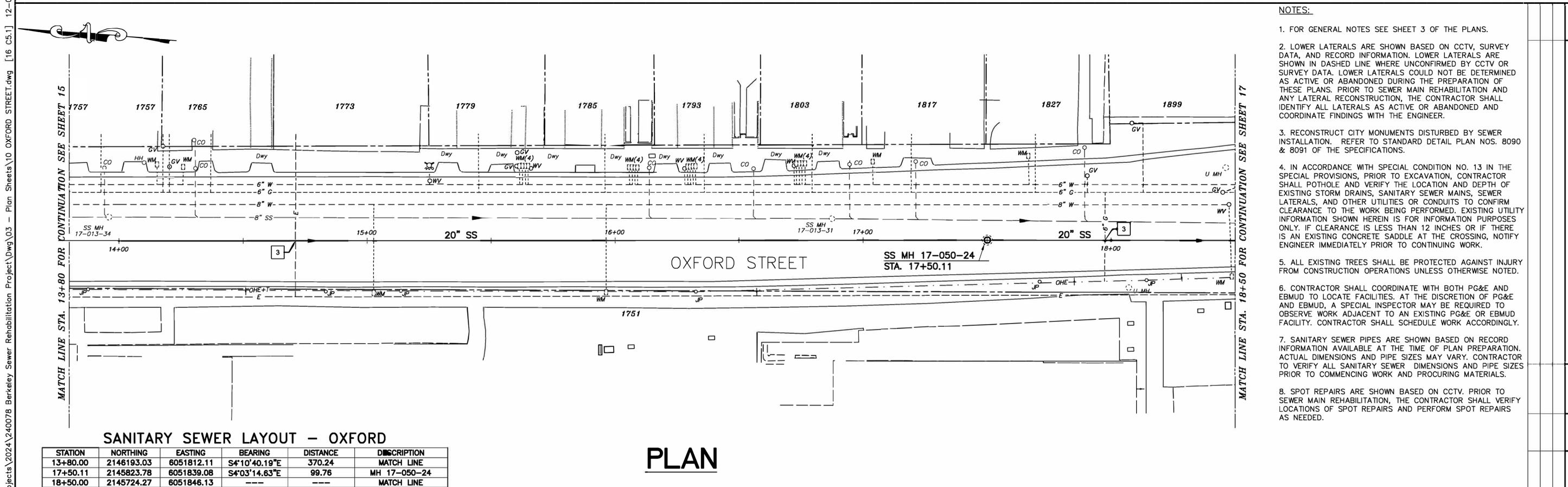
PLAN NO.: 8292
 FILE NO.: 502-822
 SHEET 15 OF 29

FOR CITY USE ONLY
 REFERENCE SEWER MAP NO.



PROFILE

CONSTRUCTION KEY NOTES
 3 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX GAS/ELECTRIC FACILITIES. COORDINATE WORK WITH PG&E.



- NOTES:**
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 - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
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SANITARY SEWER LAYOUT - OXFORD

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
13+80.00	2146193.03	8051812.11	S4°10'40.19"E	370.24	MATCH LINE
17+50.11	2145823.78	8051839.08	S4°03'14.63"E	99.76	MH 17-050-24
18+50.00	2145724.27	8051846.13	---	---	MATCH LINE

PLAN

FOR CITY USE ONLY
REFERENCE SEWER MAP NO.

925 • 685 • 4599

PROJECT MANAGER: DATE 12/09/24
 FELIX MENEAU, ASSOCIATE CIVIL ENGINEER

DEPICTION OF MONUMENTS: DATE 12/09/24
 BAIRD BARTON, SURVEY PARTY CHIEF

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 DANIEL AKAGI, SUPERVISING CIVIL ENGINEER

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 AS BUILT

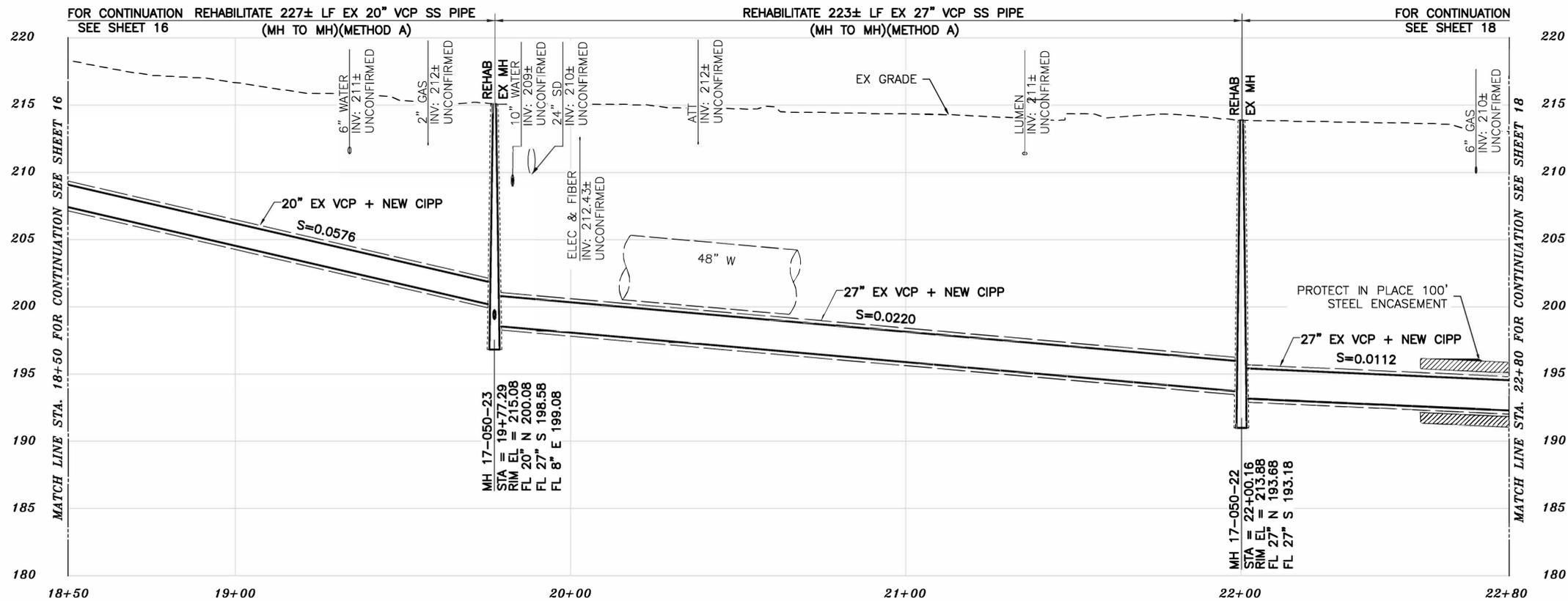
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CITY OF BERKELEY
 DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
OXFORD STREET
20" SS
 PLAN AND PROFILE

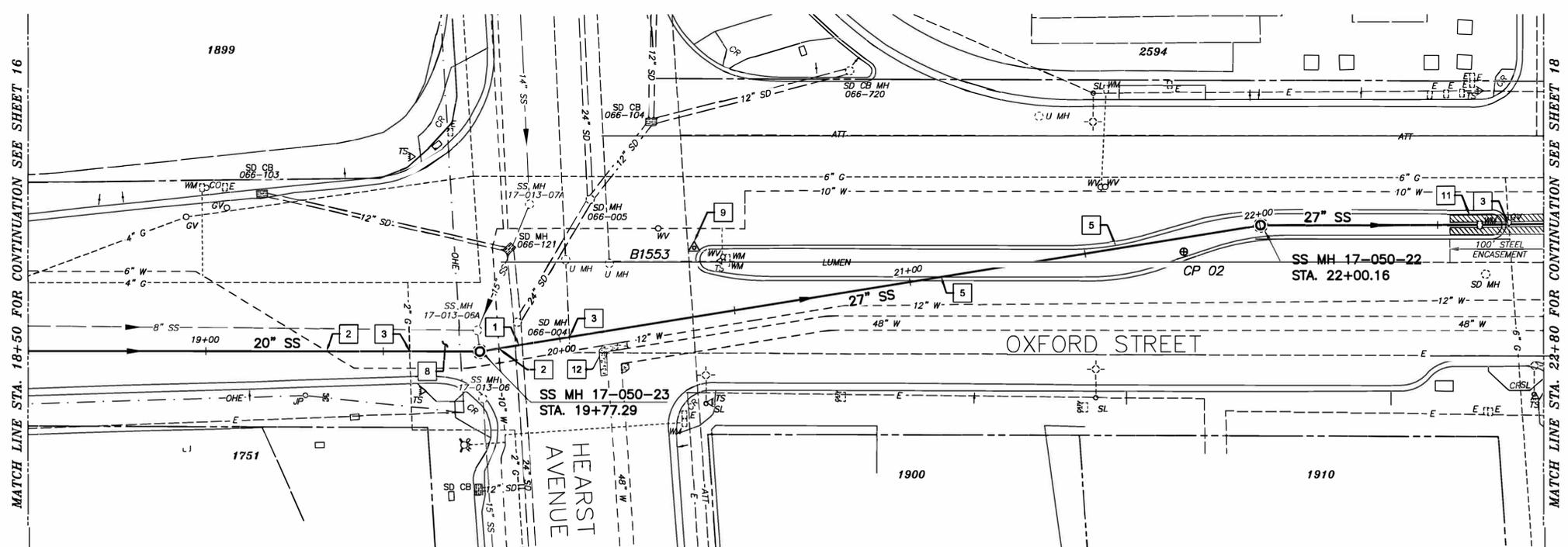
PLAN NO.: 8292
 FILE NO.: 502-822
 SHEET 16 OF 29

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PROFILE

- CONSTRUCTION KEY NOTES**
- 1 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX STORM DRAIN FACILITIES. COORDINATE WORK WITH CITY OF BERKELEY.
 - 2 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX WATER FACILITIES. COORDINATE WORK WITH EBMUD.
 - 3 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX GAS/ELECTRIC FACILITIES. COORDINATE WORK WITH PG&E.
 - 5 RECONSTRUCT PORTIONS OF EX CURB AND GUTTER IF REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NO. 8145
 - 8 REPLACE EX BIKE LANE STRIPING, SIGNING, AND TRAFFIC DEVICES IF REMOVED/DAMAGED BY SEWER INSTALLATION. FOR CROSSWALK AND OTHER TRAFFIC MARKINGS, REPLACE/RESTORE ENTIRE WIDTH OF CROSSWALK AND TRAFFIC MARKINGS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
 - 9 RECONSTRUCT EX MONUMENT REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NOS. 8090 & 8091.
 - 11 PROTECT IN PLACE EX STEEL ENCASMENT. REPLACE AS REQUIRED PER DETAIL 6 ON SHEET 28
 - 12 PROTECT IN PLACE EX CONCRETE THRUST BLOCKING.



- NOTES:**
1. FOR GENERAL NOTES SEE SHEET 3 OF THE PLANS.
 2. LOWER LATERALS ARE SHOWN BASED ON CCTV, SURVEY DATA, AND RECORD INFORMATION. LOWER LATERALS ARE SHOWN IN DASHED LINE WHERE UNCONFIRMED BY CCTV OR SURVEY DATA. LOWER LATERALS COULD NOT BE DETERMINED AS ACTIVE OR ABANDONED DURING THE PREPARATION OF THESE PLANS. PRIOR TO SEWER MAIN REHABILITATION AND ANY LATERAL RECONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY ALL LATERALS AS ACTIVE OR ABANDONED AND COORDINATE FINDINGS WITH THE ENGINEER.
 3. RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
 4. IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. EXISTING UTILITY INFORMATION SHOWN HEREIN IS FOR INFORMATION PURPOSES ONLY. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
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SANITARY SEWER LAYOUT - OXFORD

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
18+50.00	2145724.27	8051846.13	S4°03'14.63"E	127.41	MATCH LINE
19+77.29	2145597.17	8051855.14	S13°17'16.62"E	222.87	MH 17-050-23
22+00.16	2145380.27	8051906.37	S4°15'36.98"E	79.79	MH 17-050-22
22+80.00	2145300.70	8051912.29	---	---	MATCH LINE

EXERCISE EXTREME CAUTION IN THE INTERSECTION OF OXFORD AND HEARST - MANY UTILITY CROSSINGS

PLAN

K:\Projects\2024\240078 Berkeley Sewer Rehabilitation Project\03 - Plan Sheets\10 OXFORD STREET.dwg [17 05.2] 12-09-24 01:47:15 PM dchoy

Bellecci Intelligent Infrastructure

PROJECT MANAGER: FELIX MENEAU, ASSOCIATE CIVIL ENGINEER DATE 12/09/24

DEPICTION OF MONUMENTS: BAIRD BARTON SURVEY PARTY CHIEFS DATE 12/09/24

WATERSHED REVIEW: DATE 12/09/24

APPROVED: DANIEL AKAGI, SUPERVISING CIVIL ENGINEER DATE 12/09/24

APPROVED: RONALD NEVELS, CITY ENGINEER DATE 12/09/24

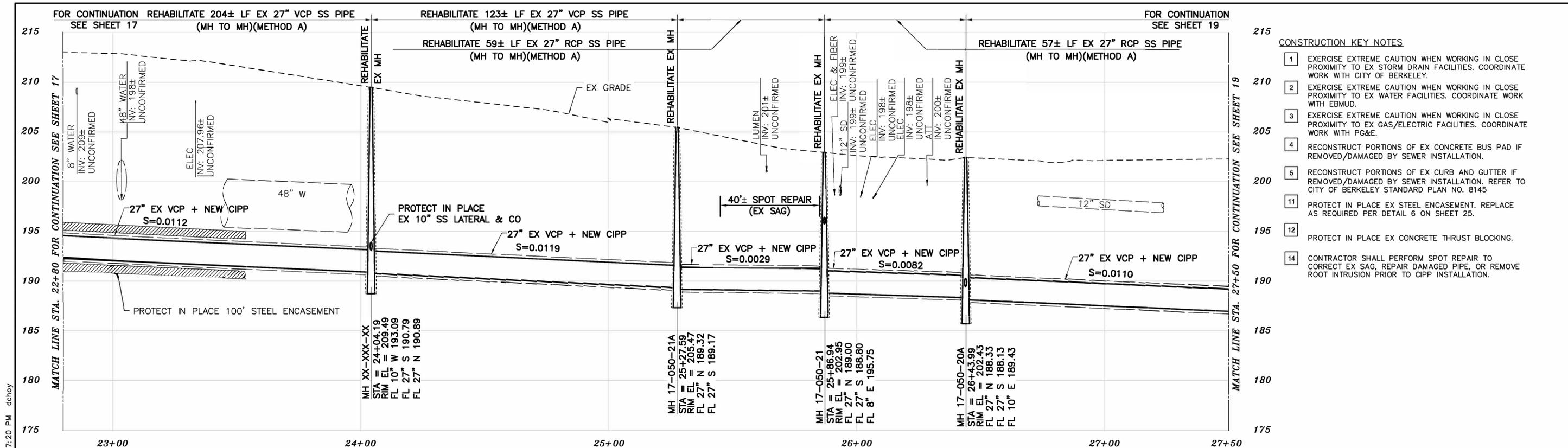
DESIGN: MA HORIZ. 1"=20' VERT. 1"=5'

DRAWN: DC CHECK: TH AS BUILT: DATE 12/09/24

CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS

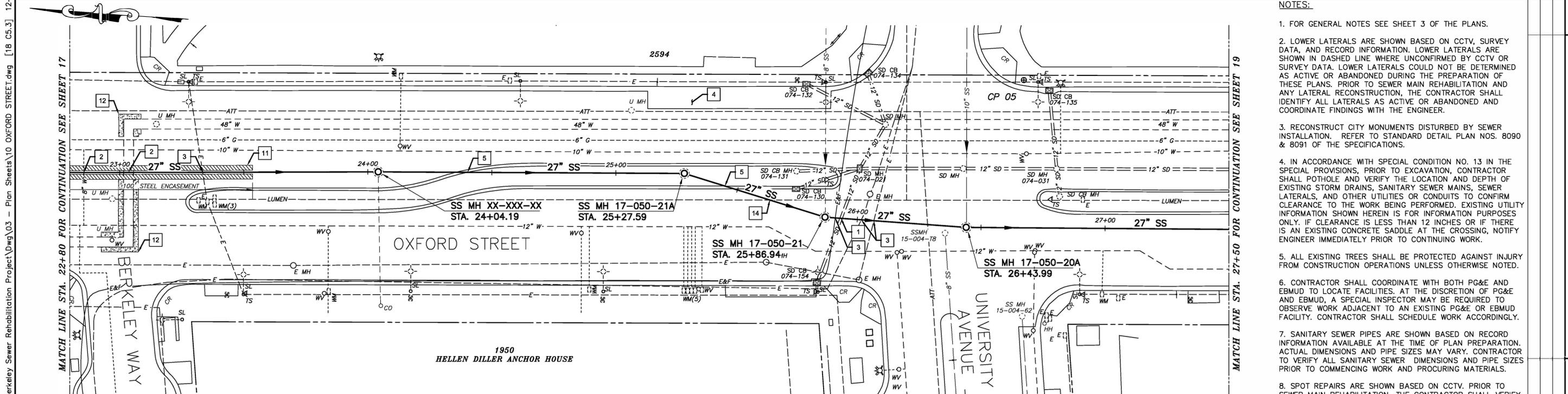
SANITARY SEWER REHABILITATION OXFORD STREET 20"-28" SS PLAN AND PROFILE

PLAN NO.: 8292 FILE NO.: 502-822 SHEET 17 OF 29



PROFILE

- CONSTRUCTION KEY NOTES**
- EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX STORM DRAIN FACILITIES. COORDINATE WORK WITH CITY OF BERKELEY.
 - EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX WATER FACILITIES. COORDINATE WORK WITH EBMUD.
 - EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX GAS/ELECTRIC FACILITIES. COORDINATE WORK WITH PG&E.
 - RECONSTRUCT PORTIONS OF EX CONCRETE BUS PAD IF REMOVED/DAMAGED BY SEWER INSTALLATION.
 - RECONSTRUCT PORTIONS OF EX CURB AND GUTTER IF REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NO. 8145
 - PROTECT IN PLACE EX STEEL ENCASUREMENT. REPLACE AS REQUIRED PER DETAIL 6 ON SHEET 25.
 - PROTECT IN PLACE EX CONCRETE THRUST BLOCKING.
 - CONTRACTOR SHALL PERFORM SPOT REPAIR TO CORRECT EX SAG, REPAIR DAMAGED PIPE, OR REMOVE ROOT INTRUSION PRIOR TO CIPP INSTALLATION.



PLAN

- NOTES:**
- FOR GENERAL NOTES SEE SHEET 3 OF THE PLANS.
 - LOWER LATERALS ARE SHOWN BASED ON CCTV, SURVEY DATA, AND RECORD INFORMATION. LOWER LATERALS ARE SHOWN IN DASHED LINE WHERE UNCONFIRMED BY CCTV OR SURVEY DATA. LOWER LATERALS COULD NOT BE DETERMINED AS ACTIVE OR ABANDONED DURING THE PREPARATION OF THESE PLANS. PRIOR TO SEWER MAIN REHABILITATION AND ANY LATERAL RECONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY ALL LATERALS AS ACTIVE OR ABANDONED AND COORDINATE FINDINGS WITH THE ENGINEER.
 - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
 - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. EXISTING UTILITY INFORMATION SHOWN HEREIN IS FOR INFORMATION PURPOSES ONLY. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
 - ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL COORDINATE WITH BOTH PG&E AND EBMUD TO LOCATE FACILITIES. AT THE DISCRETION OF PG&E AND EBMUD, A SPECIAL INSPECTOR MAY BE REQUIRED TO OBSERVE WORK ADJACENT TO AN EXISTING PG&E OR EBMUD FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
 - SANITARY SEWER PIPES ARE SHOWN BASED ON RECORD INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. ACTUAL DIMENSIONS AND PIPE SIZES MAY VARY. CONTRACTOR TO VERIFY ALL SANITARY SEWER DIMENSIONS AND PIPE SIZES PRIOR TO COMMENCING WORK AND PROCURING MATERIALS.
 - SPOT REPAIRS ARE SHOWN BASED ON CCTV. PRIOR TO SEWER MAIN REHABILITATION, THE CONTRACTOR SHALL VERIFY LOCATIONS OF SPOT REPAIRS AND PERFORM SPOT REPAIRS AS NEEDED.

SANITARY SEWER LAYOUT - OXFORD

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
22+80.00	2145300.70	6051912.29	S4°15'.36.98"E	124.25	MATCH LINE
24+04.19	2145176.78	6051921.52	S3°49'.50.82"E	123.38	MH XX-XXX-XX
25+27.59	2145053.68	6051929.77	S1°08'.41.26"W	59.36	MH 17-050-21A
25+86.94	2144995.87	6051916.30	S0°00'.57.85"E	57.05	MH 17-050-21
26+43.99	2144938.82	6051916.32	S3°41'.04.50"E	108.88	MH 17-050-20A
27+50.00	2144833.16	6051923.12	---	---	MATCH LINE

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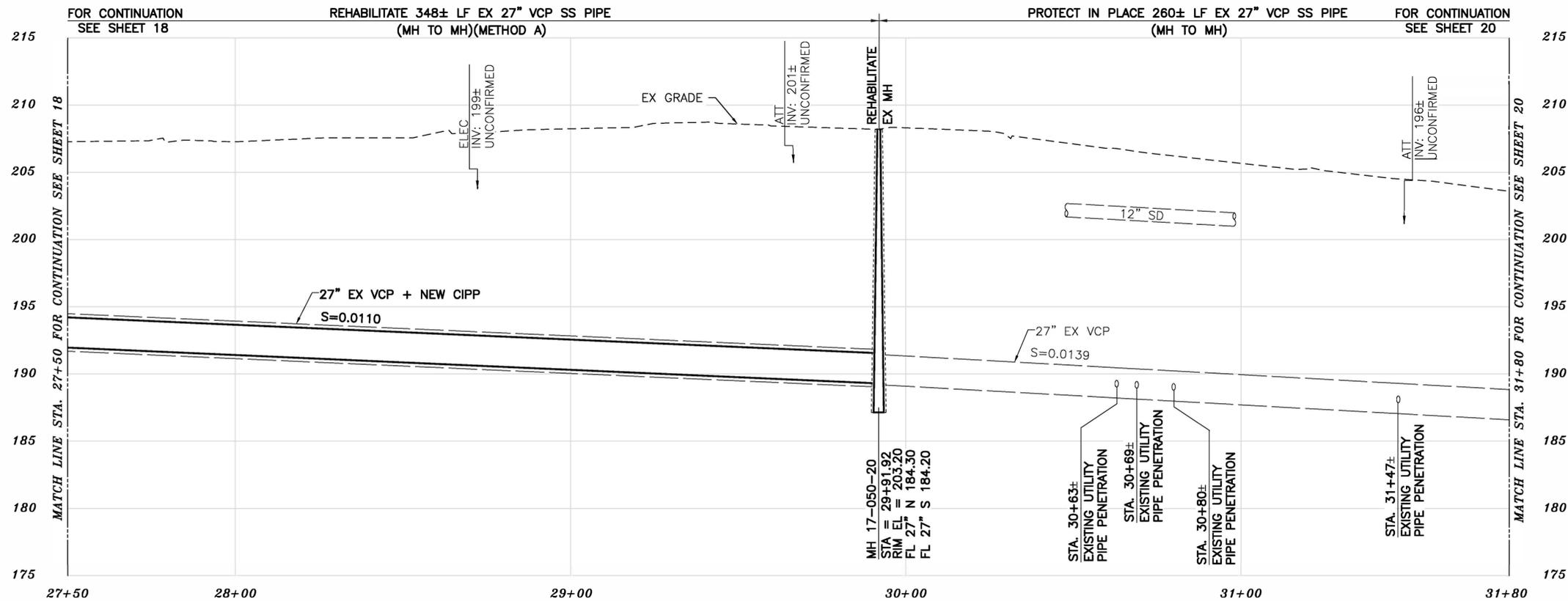
Bellecci
Intelligent Infrastructure

PROJECT MANAGER: DATE 12/09/24
 DEPICTION OF MONUMENTS: DATE 12/09/24
 SUBMITTED: DATE 12/09/24
 DESIGN: MA
 DRAWN: DC
 CHECK: TH
 AS BUILT: _____

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS

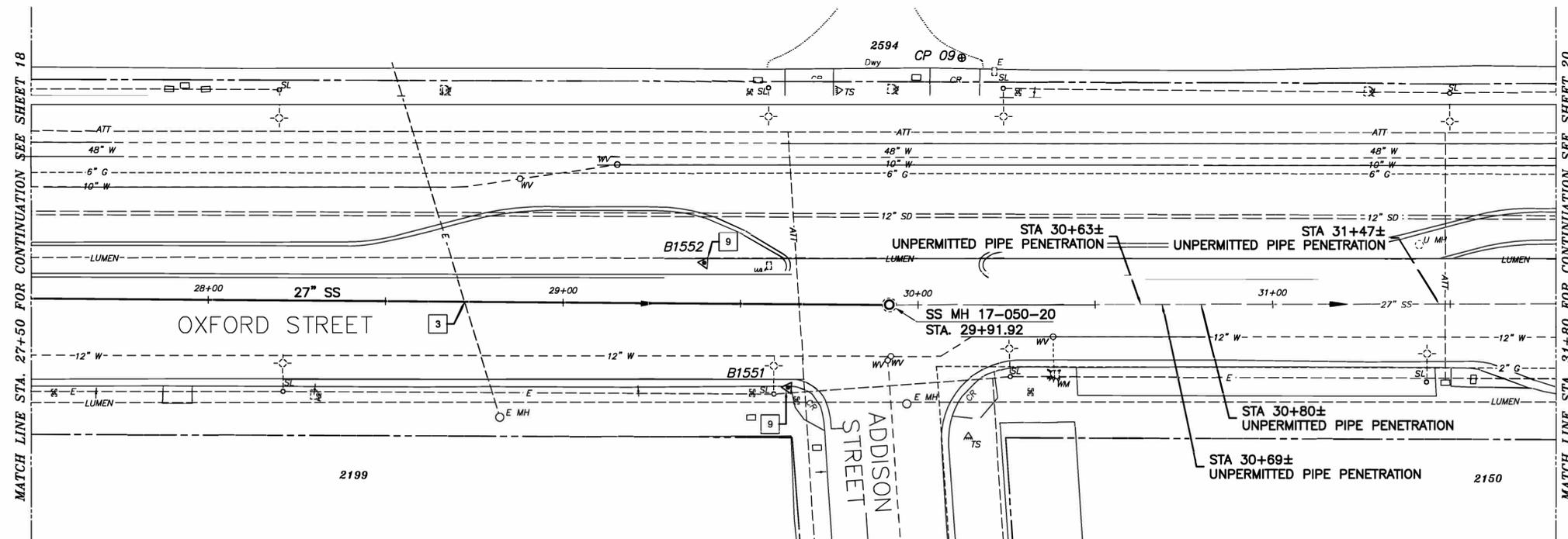
SANITARY SEWER REHABILITATION
OXFORD STREET
28" SS
PLAN AND PROFILE

PLAN NO.: 8292
FILE NO.: 502-822
SHEET 18 OF 29



PROFILE

- CONSTRUCTION KEY NOTES**
- 3 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX GAS/ELECTRIC FACILITIES. COORDINATE WORK WITH PG&E.
 - 9 RECONSTRUCT EX MONUMENT REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NOS. 8090 & 8091.



- NOTES:**
- FOR GENERAL NOTES SEE SHEET 3 OF THE PLANS.
 - LOWER LATERALS ARE SHOWN BASED ON CCTV, SURVEY DATA, AND RECORD INFORMATION. LOWER LATERALS ARE SHOWN IN DASHED LINE WHERE UNCONFIRMED BY CCTV OR SURVEY DATA. LOWER LATERALS COULD NOT BE DETERMINED AS ACTIVE OR ABANDONED DURING THE PREPARATION OF THESE PLANS. PRIOR TO SEWER MAIN REHABILITATION AND ANY LATERAL RECONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY ALL LATERALS AS ACTIVE OR ABANDONED AND COORDINATE FINDINGS WITH THE ENGINEER.
 - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
 - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. EXISTING UTILITY INFORMATION SHOWN HEREIN IS FOR INFORMATION PURPOSES ONLY. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
 - ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL COORDINATE WITH BOTH PG&E AND EBMUD TO LOCATE FACILITIES. AT THE DISCRETION OF PG&E AND EBMUD, A SPECIAL INSPECTOR MAY BE REQUIRED TO OBSERVE WORK ADJACENT TO AN EXISTING PG&E OR EBMUD FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
 - SANITARY SEWER PIPES ARE SHOWN BASED ON RECORD INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. ACTUAL DIMENSIONS AND PIPE SIZES MAY VARY. CONTRACTOR TO VERIFY ALL SANITARY SEWER DIMENSIONS AND PIPE SIZES PRIOR TO COMMENCING WORK AND PROCURING MATERIALS.
 - SPOT REPAIRS ARE SHOWN BASED ON CCTV. PRIOR TO SEWER MAIN REHABILITATION, THE CONTRACTOR SHALL VERIFY LOCATIONS OF SPOT REPAIRS AND PERFORM SPOT REPAIRS AS NEEDED.

SANITARY SEWER LAYOUT - OXFORD

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
27+50.00	2144833.16	6051923.12	S3°41'04.50"E	242.04	MATCH LINE
29+91.92	2144591.61	6051938.68	S4°12'38.55"E	187.96	MH 17-050-20
31+80.00	2144404.16	6051952.48	---	---	MATCH LINE

PLAN

EXERCISE EXTREME CAUTION IN THE INTERSECTION OF OXFORD AND ADDISON - MANY UTILITY CROSSINGS

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Intelligent Infrastructure
925-685-4599
bellecci.com

PROJECT MANAGER: DATE 12/09/24
FELIX MENEAU, ASSOCIATE CIVIL ENGINEER
BAIRD BARTON, SURVEY PARTY CHIEF
WATERSHED REVIEW: DATE 12/09/24

DEPICTION OF MONUMENTS: DATE 12/09/24
DANIEL AKAGI, SUPERVISING CIVIL ENGINEER
APPROVED: DATE 12/09/24
RONALD NEVELS, CITY ENGINEER

SUBMITTED: DATE 12/09/24
R.C.E. 37829
EXP. 04/2025
DRAWN: DC
CHECK: TH
AS BUILT: _____
DATE 12/09/24

DESIGN: MA
HORIZ. 1"=20'
VERT. 1"=5'
BOOK: _____
DATE 12/09/24

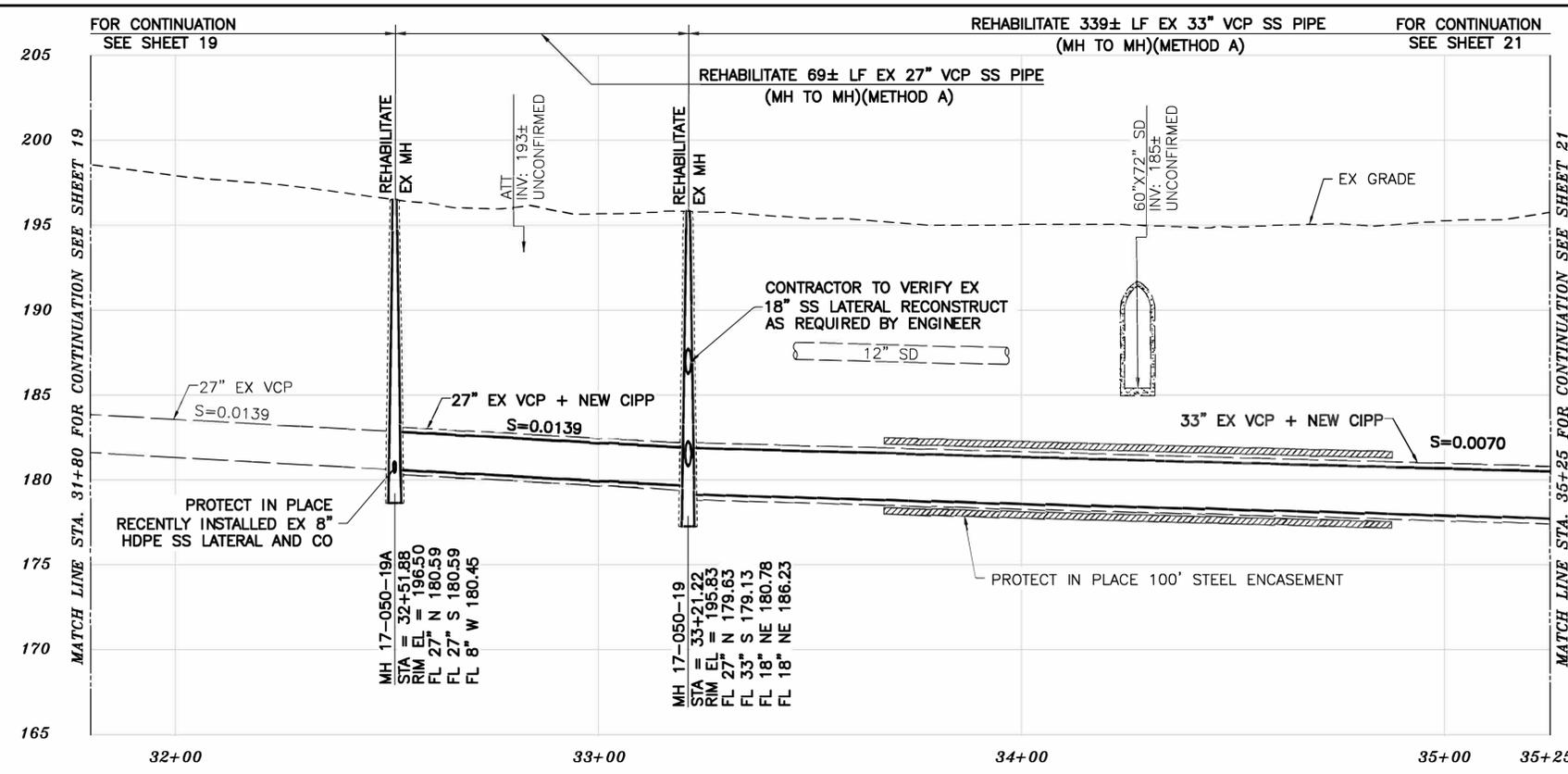
CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
OXFORD STREET
28" SS
PLAN AND PROFILE

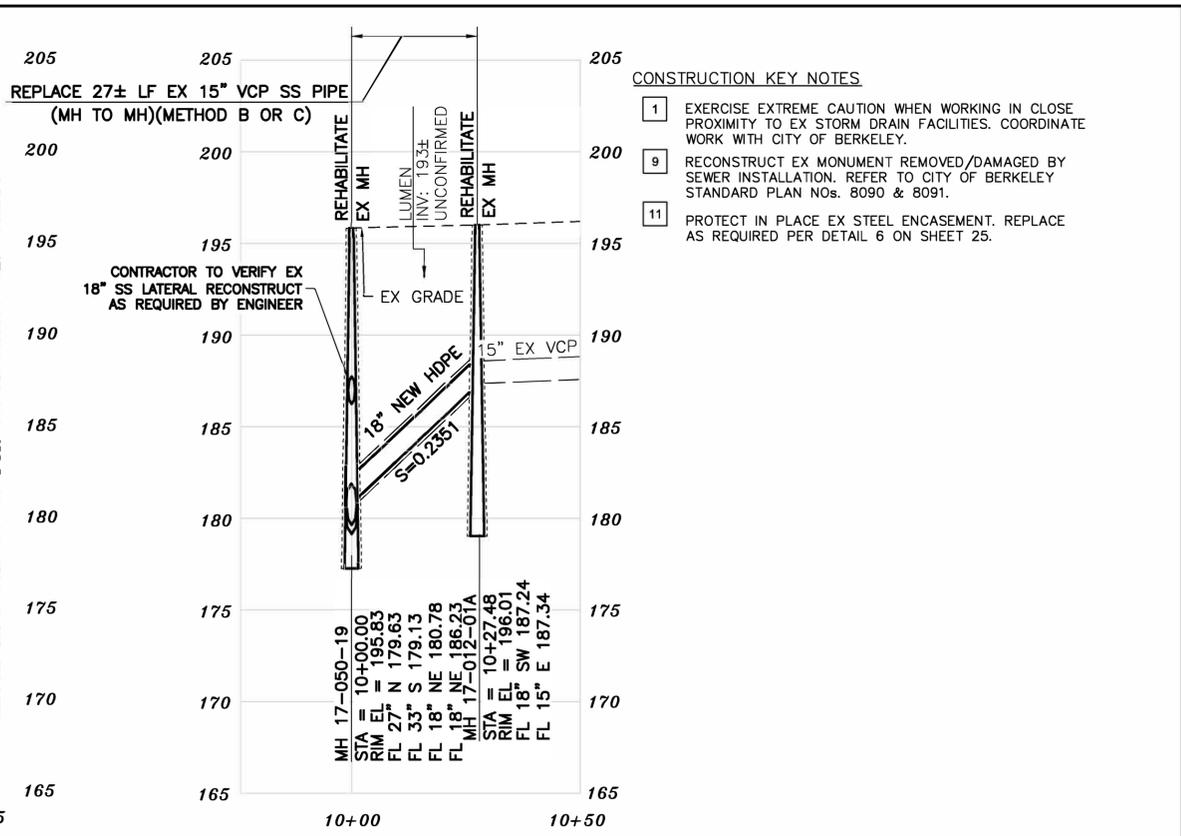
PLAN NO.: 8292
FILE NO.: 502-822
SHEET 19 OF 29

REVISION	MARK	DATE	DESCRIPTION	APPROVAL

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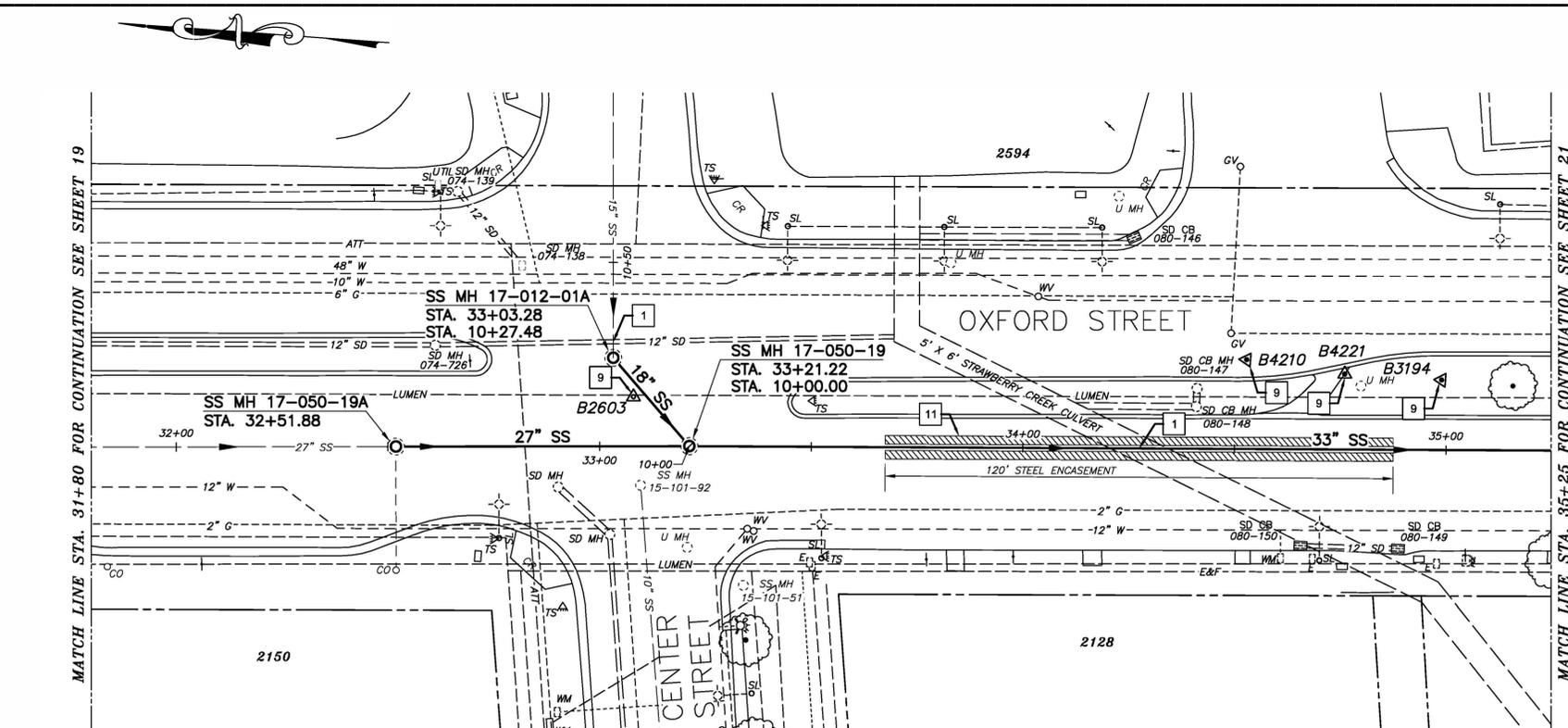
PROFILE



PROFILE

- CONSTRUCTION KEY NOTES**
- 1 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX STORM DRAIN FACILITIES. COORDINATE WORK WITH CITY OF BERKELEY.
 - 9 RECONSTRUCT EX MONUMENT REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NOS. 8090 & 8091.
 - 11 PROTECT IN PLACE EX STEEL ENCASMENT. REPLACE AS REQUIRED PER DETAIL 6 ON SHEET 25.

- NOTES:**
- FOR GENERAL NOTES SEE SHEET 3 OF THE PLANS.
 - LOWER LATERALS ARE SHOWN BASED ON CCTV, SURVEY DATA, AND RECORD INFORMATION. LOWER LATERALS ARE SHOWN IN DASHED LINE WHERE UNCONFIRMED BY CCTV OR SURVEY DATA. LOWER LATERALS COULD NOT BE DETERMINED AS ACTIVE OR ABANDONED DURING THE PREPARATION OF THESE PLANS. PRIOR TO SEWER MAIN REHABILITATION AND ANY LATERAL RECONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY ALL LATERALS AS ACTIVE OR ABANDONED AND COORDINATE FINDINGS WITH THE ENGINEER.
 - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
 - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. EXISTING UTILITY INFORMATION SHOWN HEREIN IS FOR INFORMATION PURPOSES ONLY. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
 - ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL COORDINATE WITH BOTH PG&E AND EBMUD TO LOCATE FACILITIES. AT THE DISCRETION OF PG&E AND EBMUD, A SPECIAL INSPECTOR MAY BE REQUIRED TO OBSERVE WORK ADJACENT TO AN EXISTING PG&E OR EBMUD FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
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 - SPOT REPAIRS ARE SHOWN BASED ON CCTV. PRIOR TO SEWER MAIN REHABILITATION, THE CONTRACTOR SHALL VERIFY LOCATIONS OF SPOT REPAIRS AND PERFORM SPOT REPAIRS AS NEEDED.



PLAN

SANITARY SEWER LAYOUT - OXFORD

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
31+80.00	2144404.16	6051952.48	S4°12'38.55"E	72.00	MATCH LINE
32+51.88	2144332.36	6051957.76	S4°12'38.55"E	69.35	MH 17-050-19A
33+21.22	2144263.20	6051962.86	S3°49'30.64"E	203.65	MH 17-050-19
35+25.00	2144060.00	6051976.44	---	---	MATCH LINE

EXERCISE EXTREME CAUTION IN THE INTERSECTION OF OXFORD AND CENTER - MANY UTILITY CROSSINGS



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Intelligent Infrastructure
925-685-4569
bellecci.com

PROJECT MANAGER: DATE 12/09/24
 FELIX MENEAU, ASSOCIATE CIVIL ENGINEER
 DEPICTION OF MONUMENTS: DATE 12/09/24
 BAIRD BARTON, SURVEY PARTY CHIEF
 WATERSHED REVIEW: DATE 12/09/24

SUBMITTED: DATE 12/09/24
 R.C.E. 37829
 EXP. 04/2025
 DANIEL AKAGI, SUPERVISING CIVIL ENGINEER
 APPROVED: DATE 12/09/24
 R.C.E. 62524
 EXP. 10/2025
 RONALD NEVELS, CITY ENGINEER

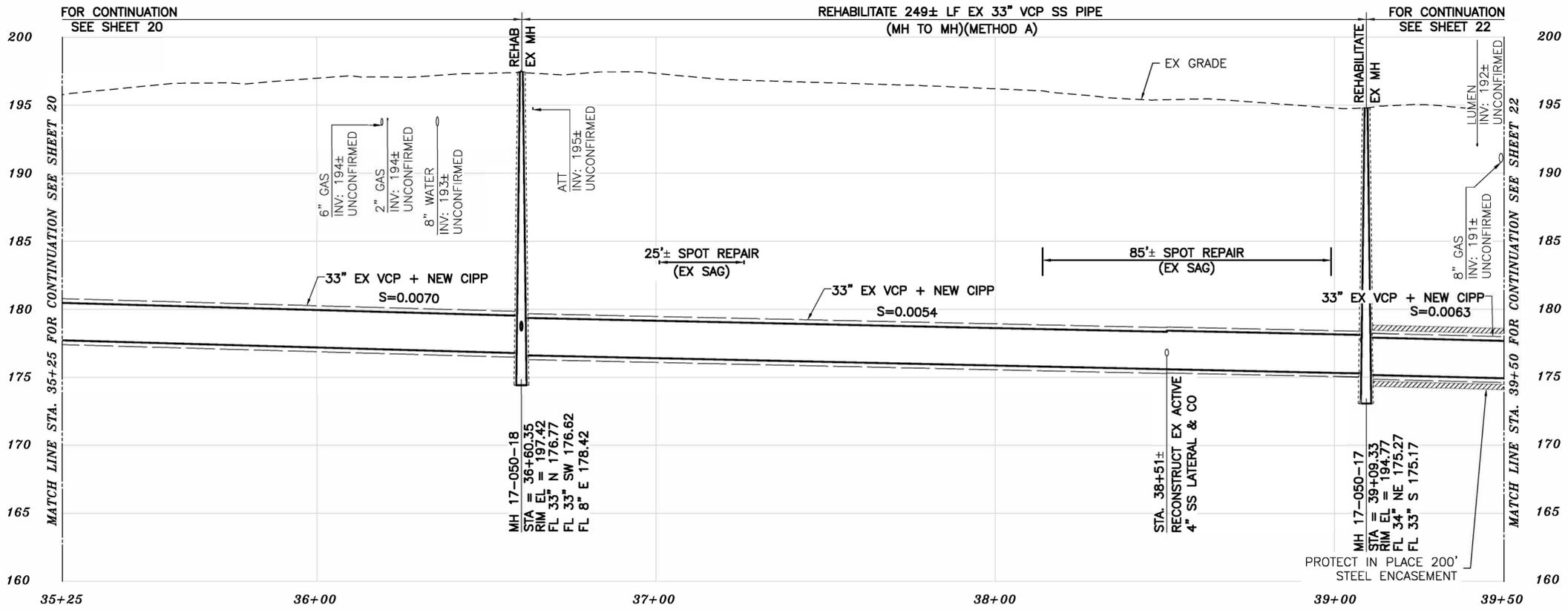
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 AS BUILT
 HORIZ. 1"=20'
 VERT. 1"=5'
 BOOK
 DATE 12/09/24

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
OXFORD STREET
28"-34" SS
PLAN AND PROFILE

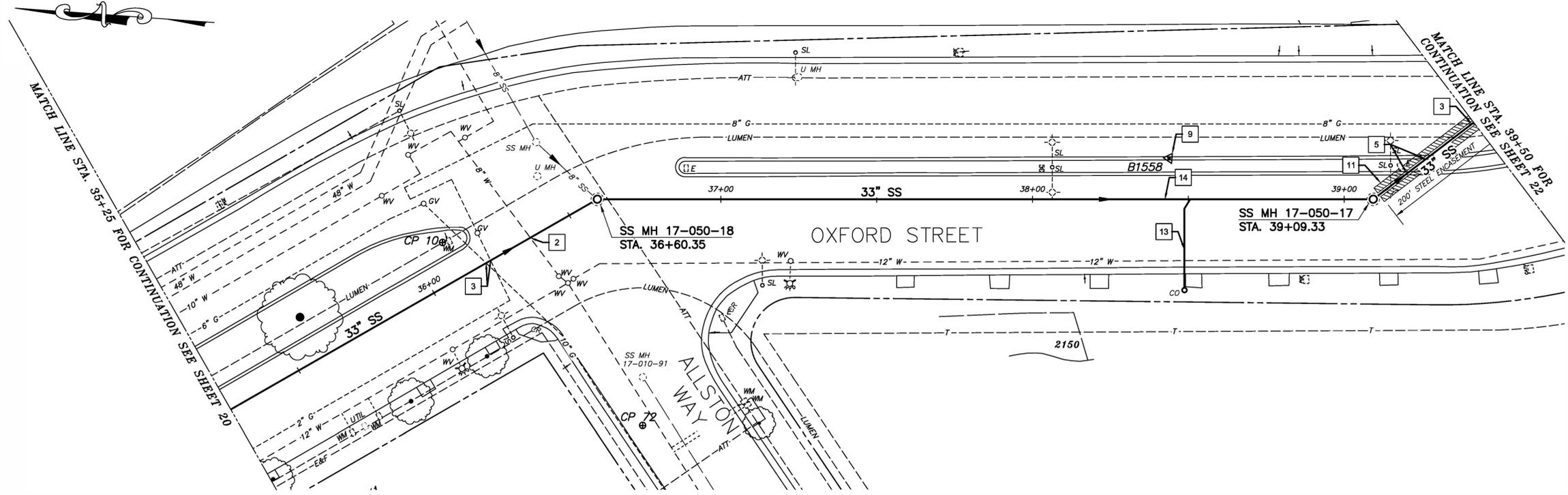
PLAN NO.: 8292
 FILE NO.: 502-822
 SHEET 20 OF 29

FOR CITY USE ONLY
REFERENCE SEWER MAP NO.



PROFILE

- CONSTRUCTION KEY NOTES**
- 2 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX WATER FACILITIES. COORDINATE WORK WITH EBMUD.
 - 3 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX GAS/ELECTRIC FACILITIES. COORDINATE WORK WITH PG&E.
 - 5 RECONSTRUCT PORTIONS OF EX CURB AND GUTTER IF REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NO. 8145
 - 9 RECONSTRUCT EX MONUMENT REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NOS. 8090 & 8091.
 - 11 PROTECT IN PLACE EX STEEL ENCASUREMENT. REPLACE AS REQUIRED PER DETAIL 6 ON SHEET 25.
 - 13 CONTRACTOR SHALL VERIFY STATUS OF EX SANITARY SEWER LOWER LATERAL. RECONSTRUCT ACTIVE LATERAL OR PROPERLY ABANDON IF INACTIVE.
 - 14 CONTRACTOR SHALL PERFORM SPOT REPAIR TO CORRECT EX SAG, REPAIR DAMAGED PIPE, OR REMOVE ROOT INTRUSION PRIOR TO CIPP INSTALLATION.



- NOTES:**
1. FOR GENERAL NOTES SEE SHEET 3 OF THE PLANS.
 2. LOWER LATERALS ARE SHOWN BASED ON CCTV, SURVEY DATA, AND RECORD INFORMATION. LOWER LATERALS ARE SHOWN IN DASHED LINE WHERE UNCONFIRMED BY CCTV OR SURVEY DATA. LOWER LATERALS COULD NOT BE DETERMINED AS ACTIVE OR ABANDONED DURING THE PREPARATION OF THESE PLANS. PRIOR TO SEWER MAIN REHABILITATION AND ANY LATERAL RECONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY ALL LATERALS AS ACTIVE OR ABANDONED AND COORDINATE FINDINGS WITH THE ENGINEER.
 3. RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
 4. IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. EXISTING UTILITY INFORMATION SHOWN HEREIN IS FOR INFORMATION PURPOSES ONLY. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
 5. ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
 6. CONTRACTOR SHALL COORDINATE WITH BOTH PG&E AND EBMUD TO LOCATE FACILITIES. AT THE DISCRETION OF PG&E AND EBMUD, A SPECIAL INSPECTOR MAY BE REQUIRED TO OBSERVE WORK ADJACENT TO AN EXISTING PG&E OR EBMUD FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
 7. SANITARY SEWER PIPES ARE SHOWN BASED ON RECORD INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. ACTUAL DIMENSIONS AND PIPE SIZES MAY VARY. CONTRACTOR TO VERIFY ALL SANITARY SEWER DIMENSIONS AND PIPE SIZES PRIOR TO COMMENCING WORK AND PROCURING MATERIALS.
 8. SPOT REPAIRS ARE SHOWN BASED ON CCTV. PRIOR TO SEWER MAIN REHABILITATION, THE CONTRACTOR SHALL VERIFY LOCATIONS OF SPOT REPAIRS AND PERFORM SPOT REPAIRS AS NEEDED.

SANITARY SEWER LAYOUT - OXFORD

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
35+25.00	2144060.00	6051976.44	S3°49'30.64"E	80.47	MATCH LINE
36+60.35	2143924.83	6051985.48	S25°55'43.76"W	248.98	MH 17-050-18
39+09.33	2143700.91	6051876.61	S11°21'50.03"E	108.88	MH 17-050-17
39+50.00	2143661.16	6051884.60	---	---	MATCH LINE

EXERCISE EXTREME CAUTION IN THE INTERSECTION OF OXFORD AND ALLSTON - MANY UTILITY CROSSINGS

PLAN

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PROJECT MANAGER: DATE 12/09/24
 FELIX MENEAU, ASSOCIATE CIVIL ENGINEER
 DEPICTION OF MONUMENTS: DATE 12/09/24
 BAIRD BARTON, SURVEY PARTY CHIEF
 SUBMITTED: DATE 12/09/24
 DANIEL AKAGI, SUPERVISING CIVIL ENGINEER
 WATERSHED REVIEW: DATE 12/09/24
 RONALD NEVELS, CITY ENGINEER
 EXP. 10/2025

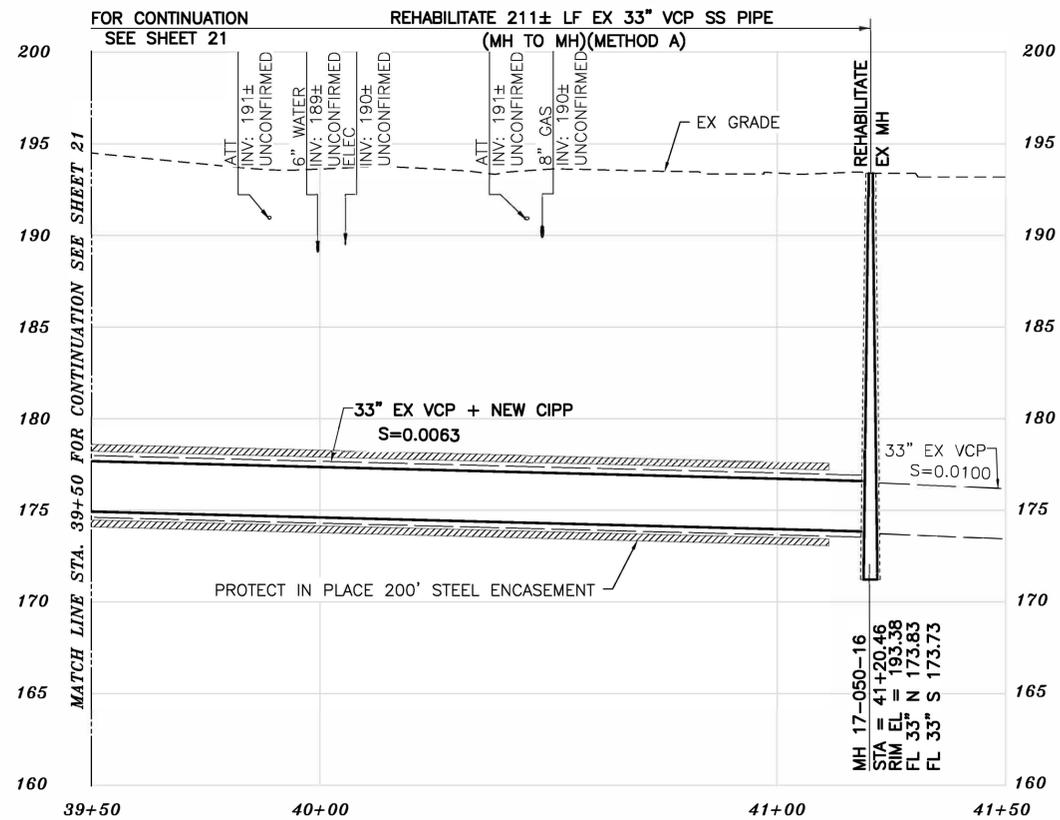
DESIGN: MA
 DRAWN: DC
 CHECK: TH
 AS BUILT: _____
 HORIZ. 1"=20'
 VERT. 1"=5'
 BOOK: _____
 DATE 12/09/24

CITY OF BERKELEY
 DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
OXFORD STREET
34" SS
 PLAN AND PROFILE

PLAN NO.: 8292
 FILE NO.: 502-822
 SHEET 21 OF 29

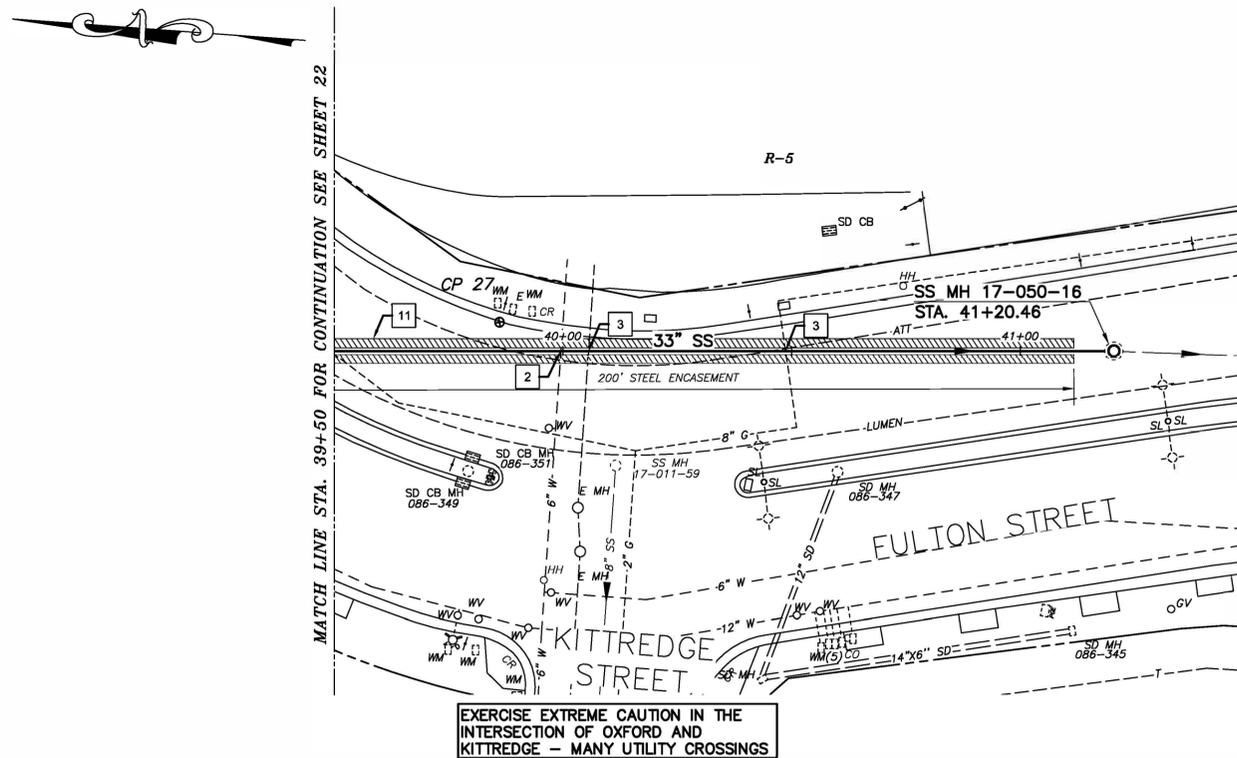
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PROFILE

CONSTRUCTION KEY NOTES

- 2 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX WATER FACILITIES. COORDINATE WORK WITH EBMUD.
- 3 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX GAS/ELECTRIC FACILITIES. COORDINATE WORK WITH PG&E.
- 11 PROTECT IN PLACE EX STEEL ENCASEMENT. REPLACE AS REQUIRED PER DETAIL 6 ON SHEET 25.



PLAN

NOTES:

1. FOR GENERAL NOTES SEE SHEET 3 OF THE PLANS.
2. LOWER LATERALS ARE SHOWN BASED ON CCTV, SURVEY DATA, AND RECORD INFORMATION. LOWER LATERALS ARE SHOWN IN DASHED LINE WHERE UNCONFIRMED BY CCTV OR SURVEY DATA. LOWER LATERALS COULD NOT BE DETERMINED AS ACTIVE OR ABANDONED DURING THE PREPARATION OF THESE PLANS. PRIOR TO SEWER MAIN REHABILITATION AND ANY LATERAL RECONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY ALL LATERALS AS ACTIVE OR ABANDONED AND COORDINATE FINDINGS WITH THE ENGINEER.
3. RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
4. IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. EXISTING UTILITY INFORMATION SHOWN HEREIN IS FOR INFORMATION PURPOSES ONLY. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
5. ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL COORDINATE WITH BOTH PG&E AND EBMUD TO LOCATE FACILITIES. AT THE DISCRETION OF PG&E AND EBMUD, A SPECIAL INSPECTOR MAY BE REQUIRED TO OBSERVE WORK ADJACENT TO AN EXISTING PG&E OR EBMUD FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
7. SANITARY SEWER PIPES ARE SHOWN BASED ON RECORD INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. ACTUAL DIMENSIONS AND PIPE SIZES MAY VARY. CONTRACTOR TO VERIFY ALL SANITARY SEWER DIMENSIONS AND PIPE SIZES PRIOR TO COMMENCING WORK AND PROCURING MATERIALS.
8. SPOT REPAIRS ARE SHOWN BASED ON CCTV. PRIOR TO SEWER MAIN REHABILITATION, THE CONTRACTOR SHALL VERIFY LOCATIONS OF SPOT REPAIRS AND PERFORM SPOT REPAIRS AS NEEDED.

SANITARY SEWER LAYOUT - OXFORD

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
39+50.00	2143661.16	8051884.80	S11°21'50.03"E	170.59	MATCH LINE
41+20.46	2143275.87	8051953.55	---	---	MH 17-050-16

FOR CITY USE ONLY
REFERENCE SEWER MAP NO.



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PROJECT MANAGER: DATE 12/09/24
FELIX MENEAU, ASSOCIATE CIVIL ENGINEER

DEPICTION OF MONUMENTS: DATE 12/09/24
BAIRD BARTON, SURVEY PARTY CHIEF
WATERSHED REVIEW: DATE 12/09/24

SUBMITTED: DATE 12/09/24
R.C.E. 37829
EXP. 04/2025
DANIEL AKAGI, SUPERVISING CIVIL ENGINEER
APPROVED: DATE 12/09/24
R.C.E. 62524
EXP. 10/2025
RONALD NEVELS, CITY ENGINEER

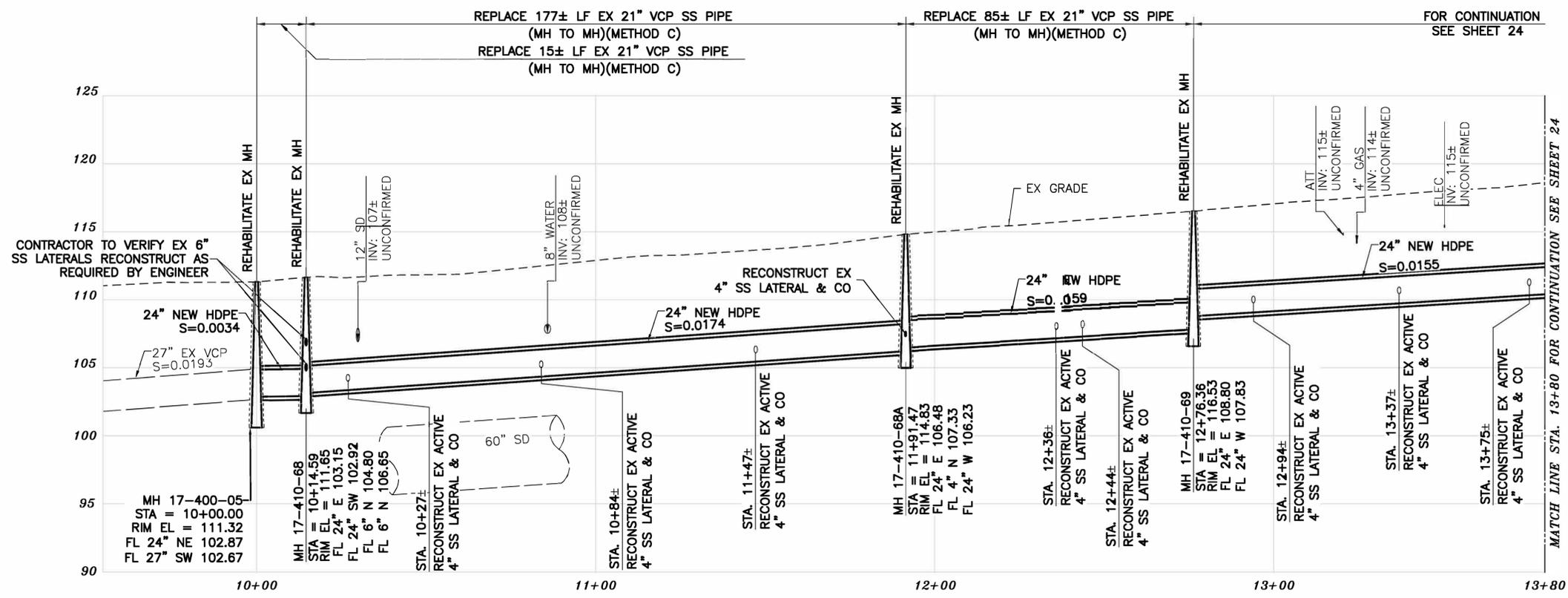
DESIGN MA
DRAWN DC
CHECK TH
AS BUILT
HORIZ. 1"=20'
VERT. 1"=5'
BOOK
DATE 12/09/24

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
OXFORD STREET
34" SS
PLAN AND PROFILE

PLAN NO.: 8292
FILE NO.: 502-822
SHEET 22 OF 29

APPROVAL
DESCRIPTION
DATE
MARK
REVISION



- CONSTRUCTION KEY NOTES**
- EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX STORM DRAIN FACILITIES. COORDINATE WORK WITH CITY OF BERKELEY.
 - EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX WATER FACILITIES. COORDINATE WORK WITH EBMUD.
 - EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX GAS/ELECTRIC FACILITIES. COORDINATE WORK WITH PG&E.
 - RECONSTRUCT PORTIONS OF EX CURB AND GUTTER IF REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NO. 8145
 - RECONSTRUCT EX MONUMENT REMOVED/DAMAGED BY SEWER INSTALLATION. REFER TO CITY OF BERKELEY STANDARD PLAN NOS. 8090 & 8091.
 - CONTRACTOR SHALL VERIFY STATUS OF EX SANITARY SEWER LOWER LATERAL. RECONSTRUCT ACTIVE LATERAL OR PROPERLY ABANDON IF INACTIVE.

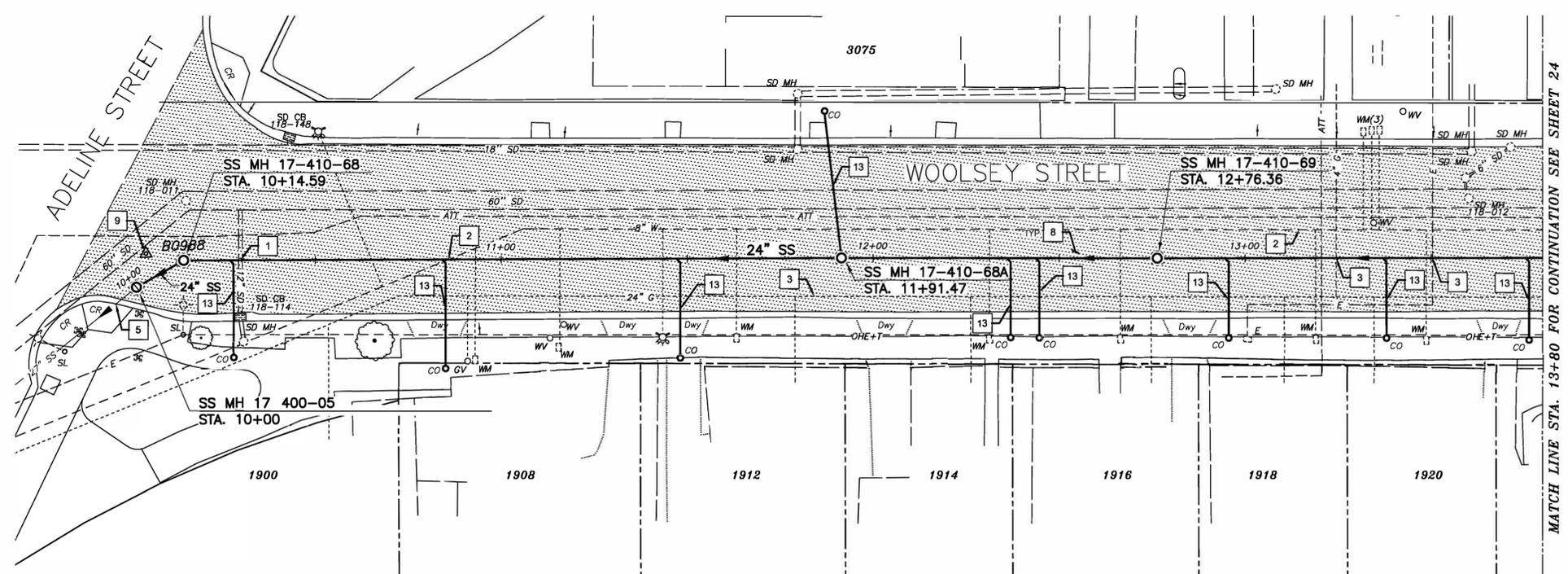
LEGEND

PAVEMENT MORATORIUM AREA
WOOLSEY STREET (ADELINE STREET - TREMONT STREET)
8/10/2020 THROUGH 8/10/2025

PAVEMENT MORATORIUM NOTES

- EXCAVATION OR PAVEMENT CUTS WITHIN A DESIGNATED PAVEMENT MORATORIUM AREA SHALL BE RESTORED PER CITY OF BERKELEY STANDARD DETAIL 8136 AS SHOWN IN THE PLANS AND SPECIFICATIONS.

- NOTES:**
- FOR GENERAL NOTES SEE SHEET 3 OF THE PLANS.
 - LOWER LATERALS ARE SHOWN BASED ON CCTV, SURVEY DATA, AND RECORD INFORMATION. LOWER LATERALS ARE SHOWN IN DASHED LINE WHERE UNCONFIRMED BY CCTV OR SURVEY DATA. LOWER LATERALS COULD NOT BE DETERMINED AS ACTIVE OR ABANDONED DURING THE PREPARATION OF THESE PLANS. PRIOR TO SEWER MAIN REHABILITATION AND ANY LATERAL RECONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY ALL LATERALS AS ACTIVE OR ABANDONED AND COORDINATE FINDINGS WITH THE ENGINEER.
 - RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
 - IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. EXISTING UTILITY INFORMATION SHOWN HEREIN IS FOR INFORMATION PURPOSES ONLY. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
 - ALL EXISTING TREES SHALL BE PROTECTED AGAINST INJURY FROM CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL COORDINATE WITH BOTH PG&E AND EBMUD TO LOCATE FACILITIES. AT THE DISCRETION OF PG&E AND EBMUD, A SPECIAL INSPECTOR MAY BE REQUIRED TO OBSERVE WORK ADJACENT TO AN EXISTING PG&E OR EBMUD FACILITY. CONTRACTOR SHALL SCHEDULE WORK ACCORDINGLY.
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 - SPOT REPAIRS ARE SHOWN BASED ON CCTV. PRIOR TO SEWER MAIN REHABILITATION, THE CONTRACTOR SHALL VERIFY LOCATIONS OF SPOT REPAIRS AND PERFORM SPOT REPAIRS AS NEEDED.



SANITARY SEWER LAYOUT - WOOLSEY

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
10+00.00	2137476.97	6050678.13	N52°04'40.23"E	14.59	MH 17-400-05
10+14.59	2137485.94	6050689.64	N81°29'52.98"E	176.88	MH 17-410-68
11+91.47	2137512.09	6050864.57	N81°44'46.30"E	84.90	MH 17-410-68A
12+76.36	2137524.28	6050948.59	N81°38'55.15"E	103.63	MH 17-410-69
13+80.00	2137539.33	6051051.12	---	---	MATCH LINE

PLAN

K:\Projects\2024\240078 Berkeley Sewer Rehabilitation Project\Drawings\12 Woolsey Street.dwg [23 06.0] 12-09-24 01:47:49 PM dchoy



PROJECT MANAGER: DATE 12/09/24
 FELIX MENEAU, ASSOCIATE CIVIL ENGINEER
 BAIRD BARTON, SURVEY PARTY CHIEF
 WATERSHED REVIEW: DATE 12/09/24
 R.C.E. 62524
 EXP. 10/2025

DEPICTION OF MONUMENTS: DATE 12/09/24
 DANIEL AKAGI, SUPERVISING CIVIL ENGINEER
 APPROVED: DATE 12/09/24
 R.C.E. 62524
 EXP. 10/2025

SUBMITTED: DATE 12/09/24
 R.C.E. 37829
 EXP. 04/2025
 DESIGN MA
 DRAWN DC
 CHECK TH
 AS BUILT
 DATE 12/09/24

HORIZ. 1"=20'
 VERT. 1"=5'
 BOOK
 DATE 12/09/24

CITY OF BERKELEY
 DEPARTMENT OF PUBLIC WORKS

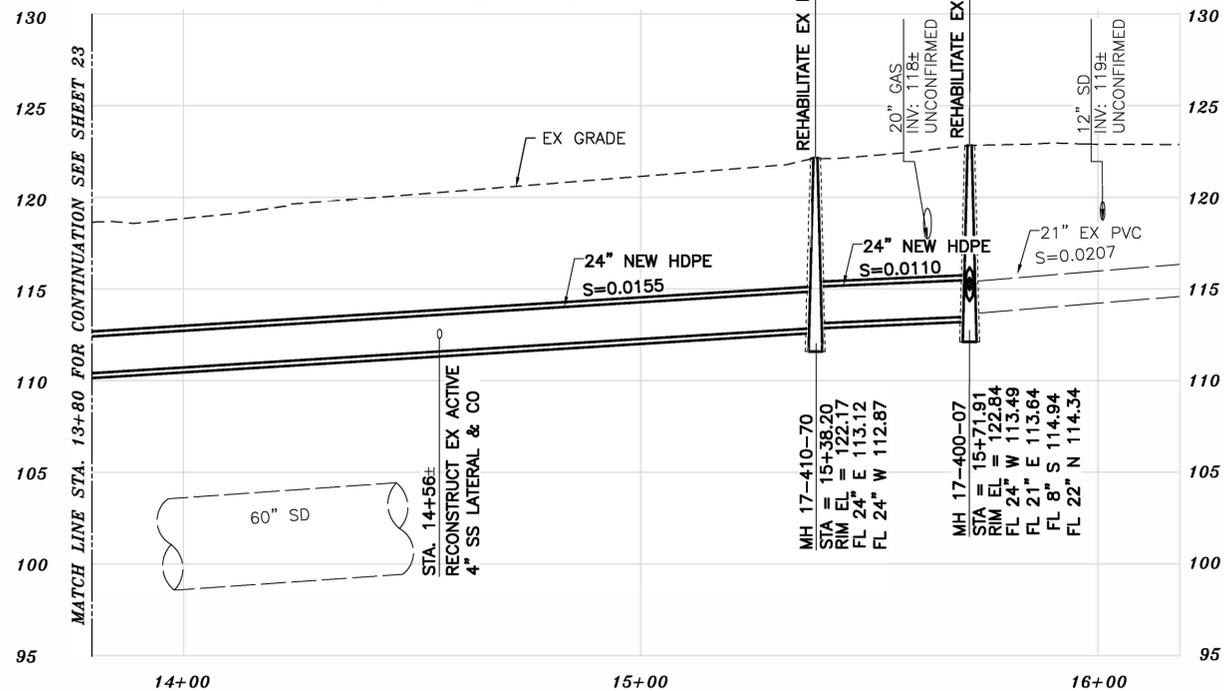
SANITARY SEWER REHABILITATION
WOOLSEY STREET
22" SS
 PLAN AND PROFILE

PLAN NO.: 8292
 FILE NO.: 502-822
 SHEET 23 OF 29

APPROVAL
 DESCRIPTION
 DATE
 MARK
 REVISION

K:\Projects\2024\240078 Berkeley Sewer Rehabilitation Project\Drawings\12 WOOLSEY STREET.dwg [24.06.1] 12-09-24 01:47:55 PM dchoy

FOR CONTINUATION
SEE SHEET 23
REPLACE 262± LF EX 21" VCP SS PIPE
(MH TO MH)(METHOD C)
REPLACE 34± LF EX 21" VCP SS PIPE
(MH TO MH)(METHOD C)



PROFILE

CONSTRUCTION KEY NOTES

- 2 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX WATER FACILITIES. COORDINATE WORK WITH EBMUD.
- 3 EXERCISE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY TO EX GAS/ELECTRIC FACILITIES. COORDINATE WORK WITH PG&E.
- 13 CONTRACTOR SHALL VERIFY STATUS OF EX SANITARY SEWER LOWER LATERAL. RECONSTRUCT ACTIVE LATERAL OR PROPERLY ABANDON IF INACTIVE.

LEGEND

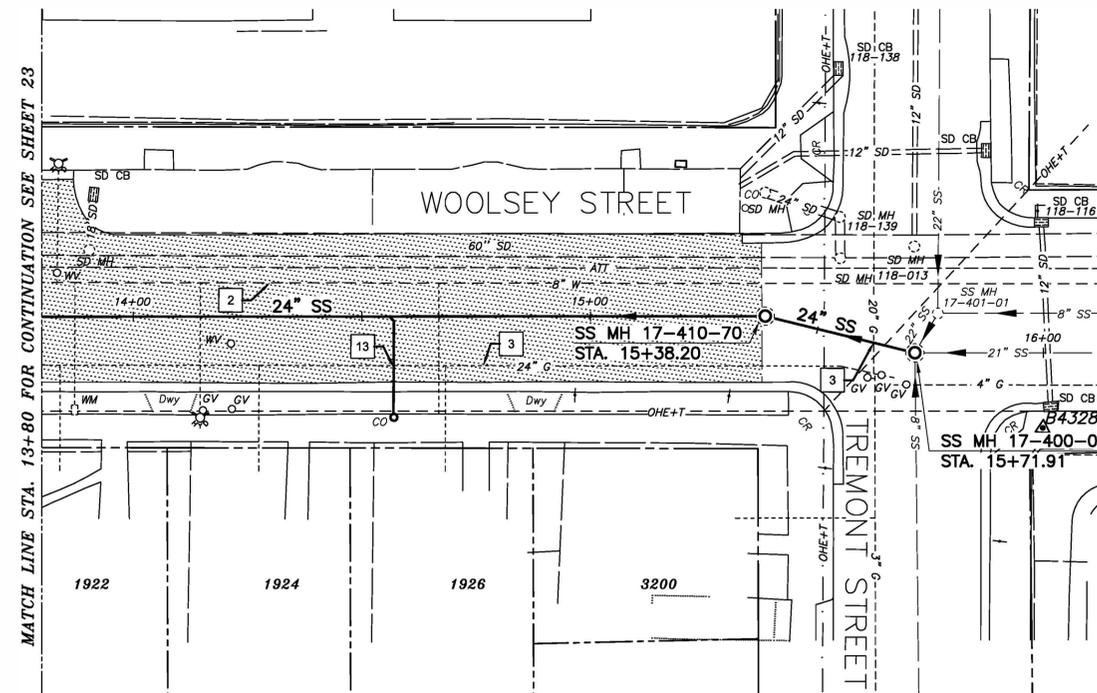
- PAVEMENT MORATORIUM AREA
- WOOLSEY STREET (ADELINE STREET - TREMONT STREET) 8/10/2020 THROUGH 8/10/2025

PAVEMENT MORATORIUM NOTES

- 1. EXCAVATION OR PAVEMENT CUTS WITHIN A DESIGNATED PAVEMENT MORATORIUM AREA SHALL BE RESTORED PER CITY OF BERKELEY STANDARD DETAIL 8136 AS SHOWN IN THE PLANS AND SPECIFICATIONS.

NOTES:

- 1. FOR GENERAL NOTES SEE SHEET 3 OF THE PLANS.
- 2. LOWER LATERALS ARE SHOWN BASED ON CCTV, SURVEY DATA, AND RECORD INFORMATION. LOWER LATERALS ARE SHOWN IN DASHED LINE WHERE UNCONFIRMED BY CCTV OR SURVEY DATA. LOWER LATERALS COULD NOT BE DETERMINED AS ACTIVE OR ABANDONED DURING THE PREPARATION OF THESE PLANS. PRIOR TO SEWER MAIN REHABILITATION AND ANY LATERAL RECONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY ALL LATERALS AS ACTIVE OR ABANDONED AND COORDINATE FINDINGS WITH THE ENGINEER.
- 3. RECONSTRUCT CITY MONUMENTS DISTURBED BY SEWER INSTALLATION. REFER TO STANDARD DETAIL PLAN NOS. 8090 & 8091 OF THE SPECIFICATIONS.
- 4. IN ACCORDANCE WITH SPECIAL CONDITION NO. 13 IN THE SPECIAL PROVISIONS, PRIOR TO EXCAVATION, CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND DEPTH OF EXISTING STORM DRAINS, SANITARY SEWER MAINS, SEWER LATERALS, AND OTHER UTILITIES OR CONDUITS TO CONFIRM CLEARANCE TO THE WORK BEING PERFORMED. EXISTING UTILITY INFORMATION SHOWN HEREIN IS FOR INFORMATION PURPOSES ONLY. IF CLEARANCE IS LESS THAN 12 INCHES OR IF THERE IS AN EXISTING CONCRETE SADDLE AT THE CROSSING, NOTIFY ENGINEER IMMEDIATELY PRIOR TO CONTINUING WORK.
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PLAN

SANITARY SEWER LAYOUT - WOOLSEY

STATION	NORTHING	EASTING	BEARING	DISTANCE	DESCRIPTION
13+80.00	2137539.33	6051051.12	N81°38'52.09"E	158.20	MATCH LINE
15+38.20	2137562.31	6051207.65	S84°33'35.67"E	33.70	MH 17-410-70
15+71.91	2137558.11	6051241.20	---	---	MH 17-400-07

FOR CITY USE ONLY
REFERENCE SEWER MAP NO.



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Intelligent Infrastructure
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PROJECT MANAGER: DATE 12/09/24
FELIX MENEAU, ASSOCIATE CIVIL ENGINEER

DEPICTION OF MONUMENTS: DATE 12/09/24
BAIRD BARTON, SURVEY PARTY CHIEF

SUBMITTED: DATE 12/09/24
DANIEL AKAGI, SUPERVISING CIVIL ENGINEER

DESIGN MA
DRAWN DC
CHECK TH
AS BUILT
DATE 12/09/24

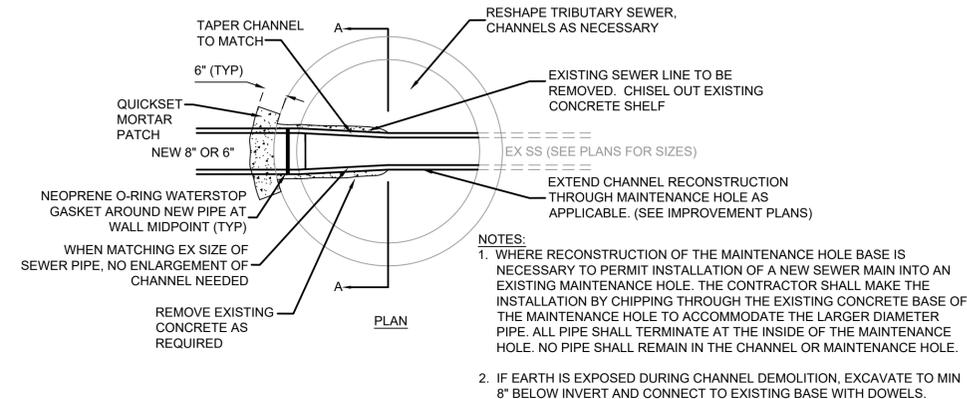
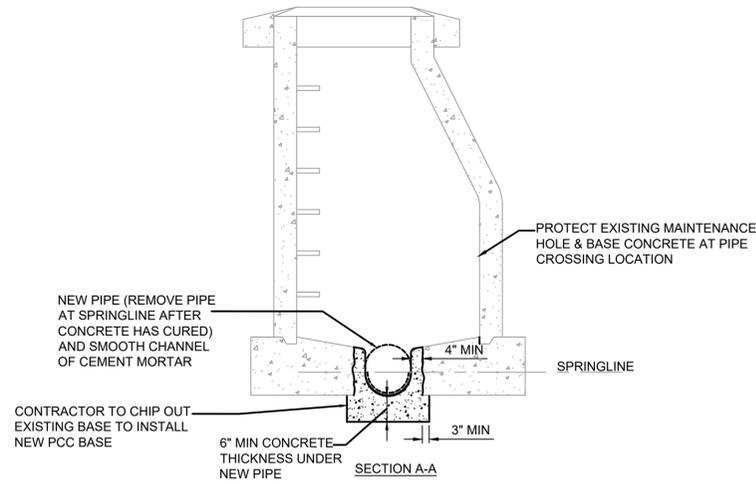
CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
WOOLSEY STREET
22" SS
PLAN AND PROFILE

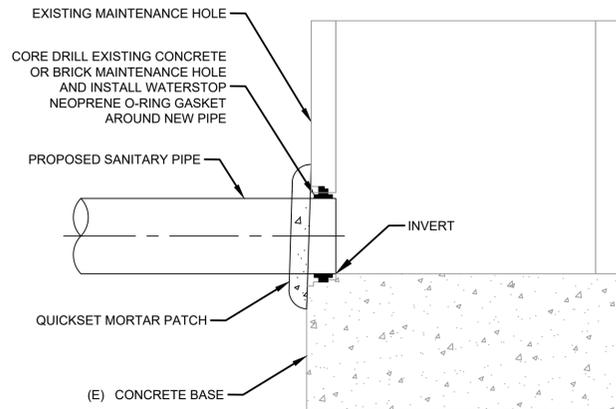
PLAN NO.: 8292
FILE NO.: 502-822
SHEET 24 OF 29

REVISION	MARK	DATE	DESCRIPTION	APPROVAL

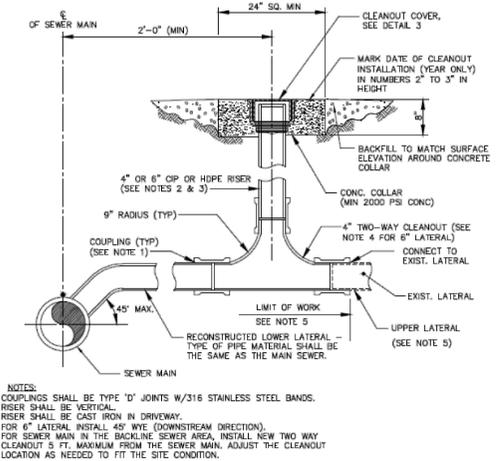
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RE-CHANNEL BASE OF SANITARY SEWER MAINTENANCE HOLE 1
SCALE: NTS

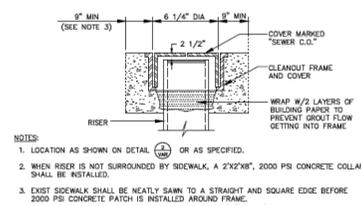


SEWER CONNECTION TO EXISTING MAINTENANCE HOLE 2
SCALE: NTS



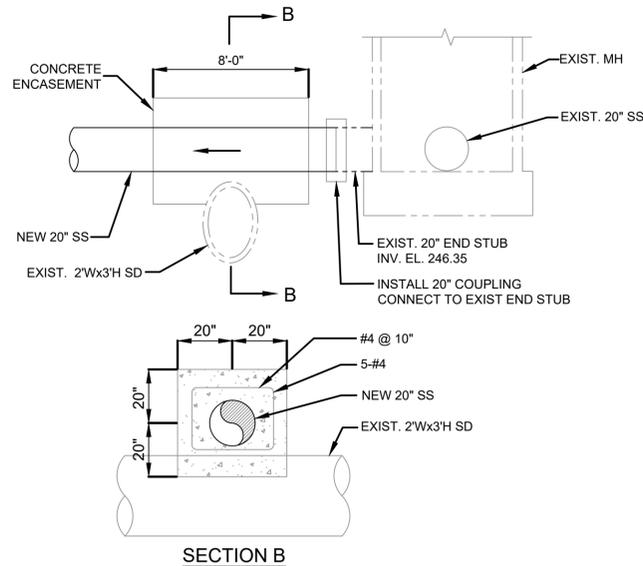
- NOTES:
 1. COUPLINGS SHALL BE TYPE 'D' JOINTS W/316 STAINLESS STEEL BANDS.
 2. RISER SHALL BE VERTICAL.
 3. RISER SHALL BE CAST IRON IN DRIVEWAY.
 4. FOR 6\"/>

LOWER LATERAL RECONSTRUCTION 3
SCALE: NTS

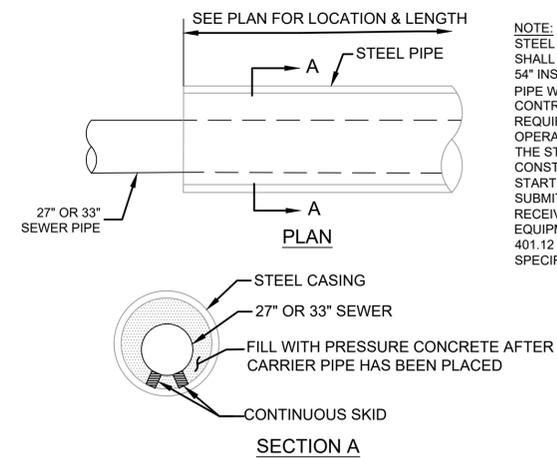


- NOTES:
 1. LOCATION AS SHOWN ON DETAIL OR AS SPECIFIED.
 2. WHEN RISER IS NOT SURROUNDED BY SIDEWALK, A 2'x2'x8\", 2000 PSI CONCRETE COLLAR SHALL BE INSTALLED.
 3. EXIST SIDEWALK SHALL BE NEATLY SAWN TO A STRAIGHT AND SQUARE EDGE BEFORE 2000 PSI CONCRETE PATCH IS INSTALLED AROUND FRAME.

CLEANOUT COVER 4
SCALE: NTS



CONCRETE ENCASEMENT 5
SCALE: NTS



- NOTE:
 STEEL JACKING CASING SHALL BE ASTM A-53 AND SHALL BE 48\"/>

JACKED PIPE WITH CASING SECTION 6
SCALE: NTS



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PROJECT MANAGER: DATE 12/09/24
 FELIX MENEAL, ASSOCIATE CIVIL ENGINEER
 BAIRD BARTON, SURVEY PARTY CHIEF

DEPICTION OF MONUMENTS: DATE 12/09/24
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 EXP. 10/2025
 RONALD NEVELS, CITY ENGINEER

DESIGN: MA
 DRAWN: DC
 CHECK: TH
 AS BUILT: _____
 HORIZ.: _____
 VERT.: _____
 BOOK: _____
 DATE: 12/09/24

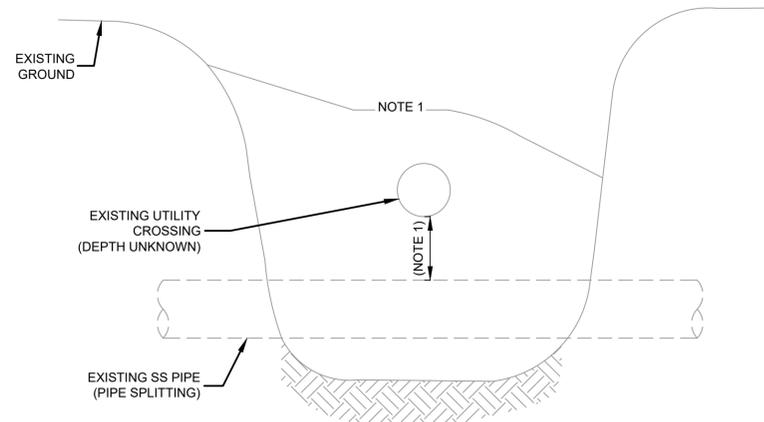
CITY OF BERKELEY
 DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
 DETAILS
 LOCATION MAP & INDEX OF DRAWINGS

PLAN NO.: 8272
 FILE NO.: 502-707
 SHEET 25 OF 29

REVISION	MARK	DATE	DESCRIPTION	APPROVAL

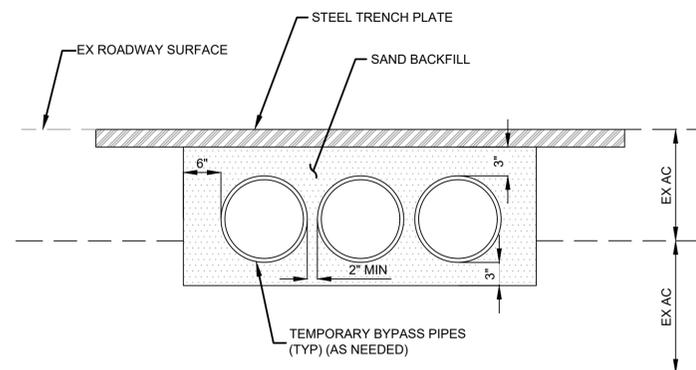
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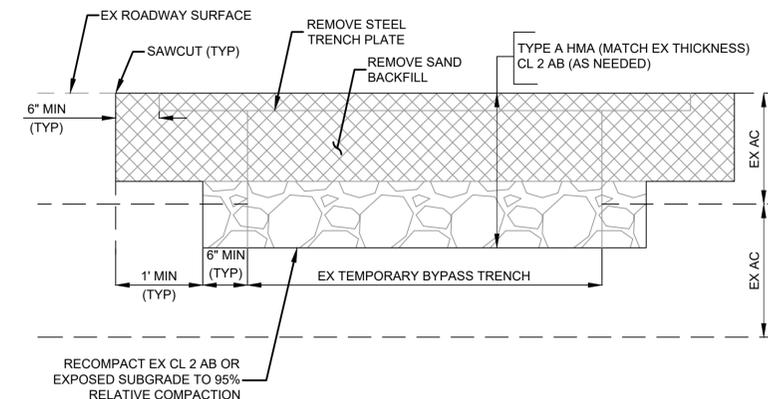
EXPOSE UTILITY CROSSING DETAIL NOTES:

- SLOPING, BENCHING, AND SHORING OF EXCAVATION SHALL BE IN CONFORMANCE WITH THE OSHA EXCAVATION STANDARD BASED ON THE OSHA CLASSIFICATION OF THE SOIL, WHICH SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- UTILITY CROSSINGS WITH LESS THAN 3 FEET (OR AS NOTED) OF CLEARANCE TO THE NEW SANITARYSEWER PIPE SHALL BE EXPOSED DURING PIPE SPLITTING.
 - BACKFILL IN ACCORDANCE WITH CITY OF BERKELEY STANDARD PLAN 8136, AND AS DIRECTED BY THE ENGINEER.
 - IN AREAS WHERE PIPE SPLITTING DISTURBS SURFACE FEATURES, RESTORE TO MATCH EXISTING CONDITIONS, AND AS DIRECTED BY THE ENGINEER.

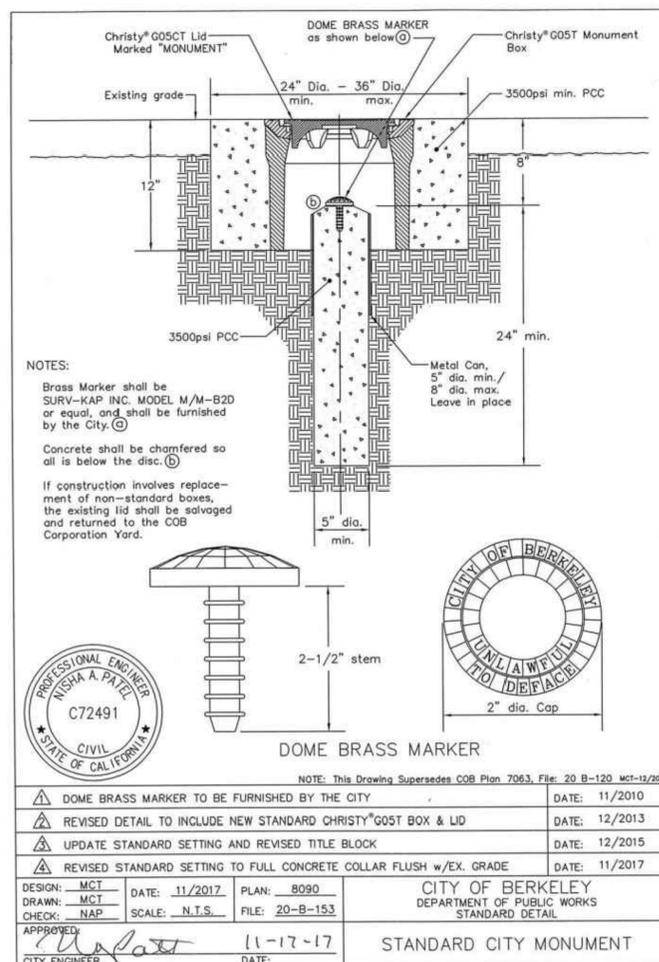
EXPOSE UTILITY CROSSING DETAIL 7
SCALE: NTS



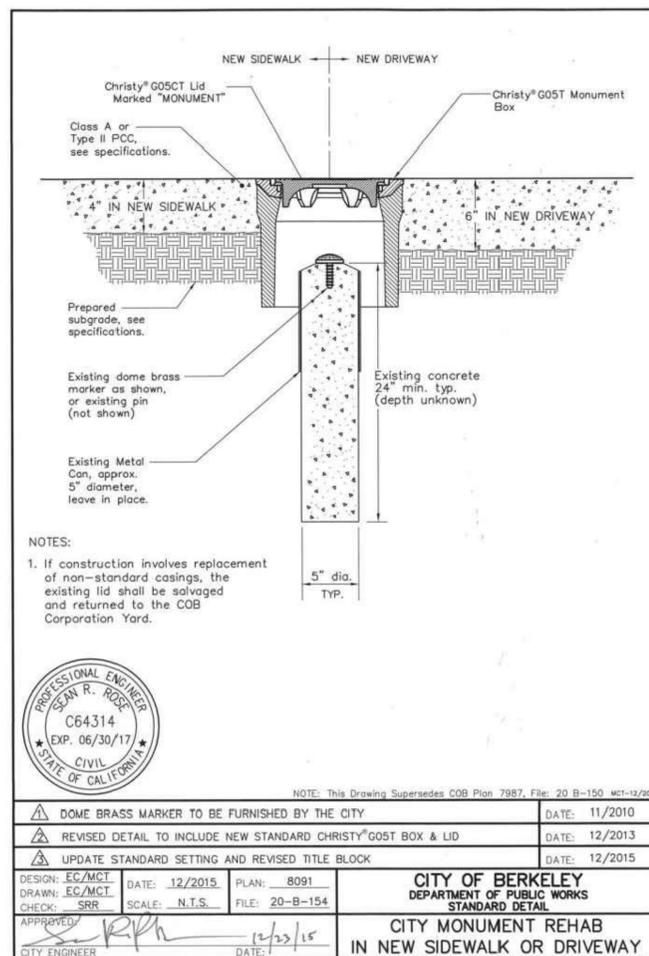
TEMPORARY BYPASS CROSSING TRAVELED WAY DETAIL 8
SCALE: NTS



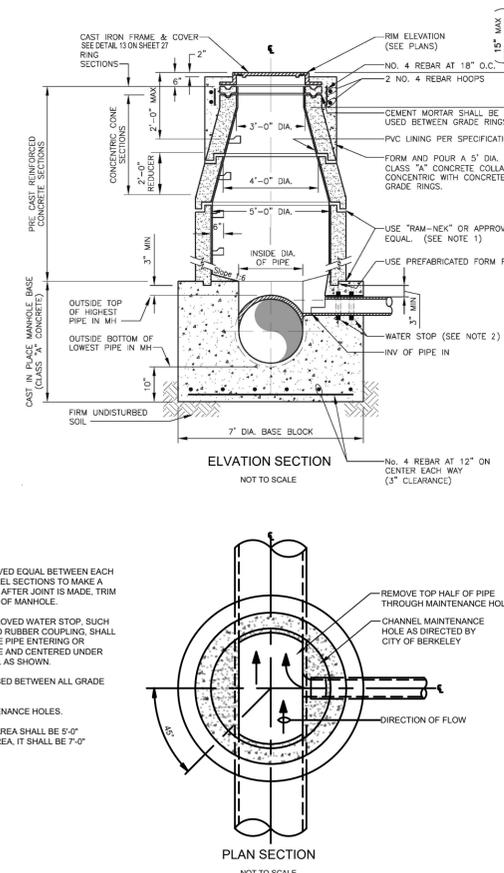
PAVEMENT RESTORATION OF TEMPORARY BYPASS CROSSING 9
SCALE: NTS



STANDARD CITY MONUMENT 10
SCALE: NTS



CITY MONUMENT REHAB IN NEW SIDEWALK OR DRIVEWAY 11
SCALE: NTS



NOTES:

- INSTALL "RAM-NEK" OR APPROVED EQUAL BETWEEN EACH JOINT OF THE CONE AND BARREL SECTIONS TO MAKE A FLEXIBLE WATER-TIGHT JOINT. AFTER JOINT IS MADE, TRIM JOINT SMOOTH ON THE INSIDE OF MANHOLE.
- FLEXIBLE PIPE ONLY - AN APPROVED WATER STOP, SUCH AS TWO O-RINGS OR A BANDED RUBBER COUPLING, SHALL BE INSTALLED ON ALL FLEXIBLE PIPE ENTERING OR LEAVING A MAINTENANCE HOLE AND CENTERED UNDER THE MAINTENANCE HOLE WALL AS SHOWN.
- CEMENT MORTAR SHALL BE USED BETWEEN ALL GRADE RINGS.
- 1'-6" MAX FOR EXISTING MAINTENANCE HOLES.
- CONCRETE COLLAR IN PAVED AREA SHALL BE 5'-0" DIAMETER AND IN UNPAVED AREA, IT SHALL BE 7'-0" DIAMETER SQUARED.

TRUNK MAINTENANCE MANHOLE 12
SCALE: NTS

DESIGN: MCT	DATE: 11/2017	PLAN: 8090	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS STANDARD DETAIL
DRAWN: MCT	SCALE: N.T.S.	FILE: 20-B-153	
CHECK: NAP	DATE: 11-17-17		

DESIGN: EC/MCT	DATE: 12/2015	PLAN: 8091	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS STANDARD DETAIL
DRAWN: EC/MCT	SCALE: N.T.S.	FILE: 20-B-154	
CHECK: SRR	DATE: 12/23/15		

FOR CITY USE ONLY
REFERENCE SEWER MAP NO.



PROJECT MANAGER: DATE 12/09/24
FELIX MENEAL, ASSOCIATE CIVIL ENGINEER
BAIRD BARTON, SURVEY PARTY CHIEF
WATERSHED REVIEW: DATE 12/09/24

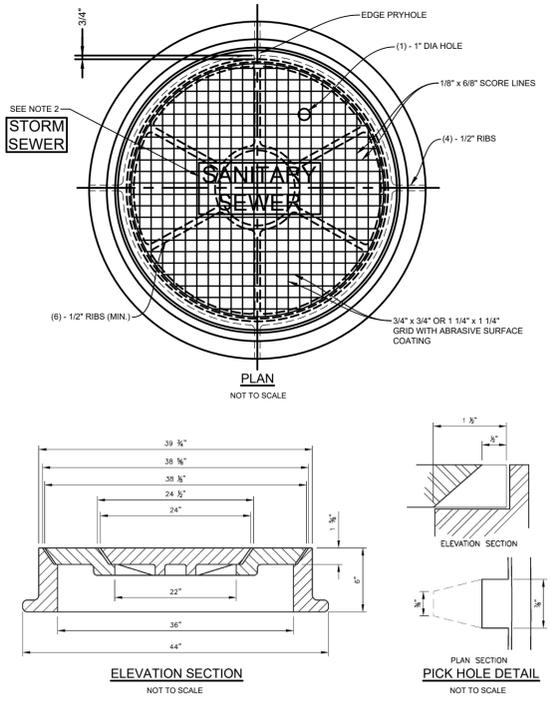
DEPICTION OF MONUMENTS: DATE 12/09/24
SUBMITTED: DATE 12/09/24
DANIEL AKAGI, SUPERVISING CIVIL ENGINEER
APPROVED: DATE 12/09/24
RONALD NEVELS, CITY ENGINEER
R.C.E. 37829
EXP. 04/2025
R.C.E. 62524
EXP. 10/2025

DESIGN: MA
DRAWN: DC
CHECK: TH
AS BUILT: _____
DATE: 12/09/24

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS

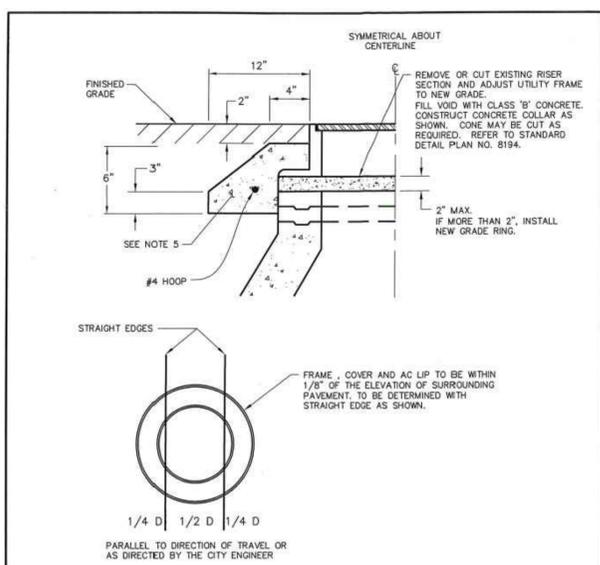
SANITARY SEWER REHABILITATION
DETAILS
LOCATION MAP & INDEX OF DRAWINGS

PLAN NO.: 8272
FILE NO.: 502-707
SHEET 26 OF 29



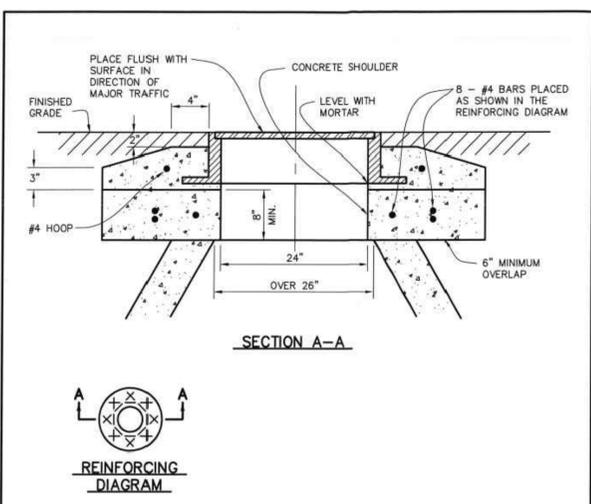
NOTES:
 1. MAINTENANCE HOLE COVER SHALL MATCH THE APPEARANCE AS EASTBAY INFILTRATION/INFLOW CORRECTION PROGRAM STANDARD MAINTENANCE HOLE COVER AND FRAME - TYPE A DETAIL.
 2. COVER TO BE MARKED IN RAISE LETTERS: "SANITARY SEWER" OR "STORM SEWER"

36" DIAMETER MAINTENANCE HOLE FRAME AND COVER
 SCALE: NTS



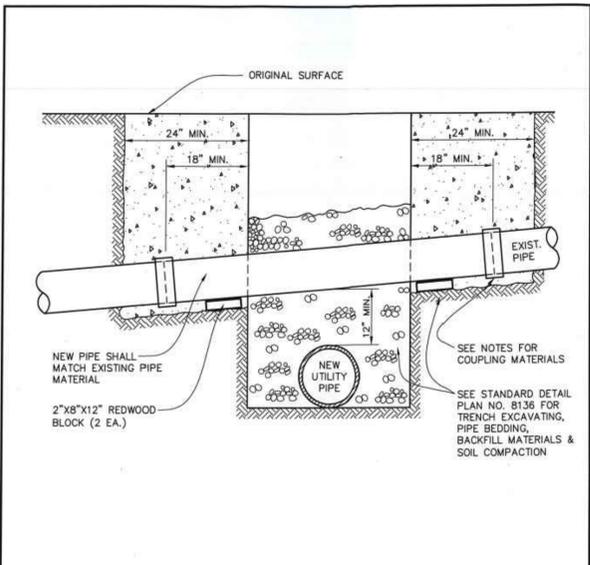
NOTES:
 1. ALL SURFACE STRUCTURES EXTENDING 2" ABOVE THE NEW SUBGRADE OR MILLING PLANE SHALL BE LOWERED BY CONTRACTOR OR UTILITY OWNER TO THE NEW SUBGRADE BEFORE PAVING. STRUCTURES PROJECTING LESS THAN 2" ABOVE THE SUBGRADE MAY BE PAVED OVER AND LATER ADJUSTED TO GRADE.
 2. ADJUST FRAME AND COVER TO FINISHED GRADE AFTER FINAL LIFT OF PAVING.
 3. TRAFFIC CONTROL APPROVAL IS REQUIRED PRIOR TO ANY TRAFFIC LANE OBSTRUCTION.
 4. PLACE TEMPORARY AC (CUT BACK) AROUND UTILITY FRAME UNTIL PERMANENT PAVING IS IN PLACE.
 5. CAST-IN-PLACE CONCRETE COLLARS SHALL CONFORM TO STANDARD SPECIFICATIONS (GREENBOOK) SECTION 201-1.1.2 AND BE CLASS 560-B-3250.

DESIGN: TP	DATE: 5/23	PLAN: 8193	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS STANDARD DETAIL
DRAWN: LG	SCALE: N.T.S.	FILE: 20B-169	
CHECK: KE			
APPROVED: [Signature]	DATE: 5-23-18		MANHOLE FRAME & COVER ADJUSTMENT



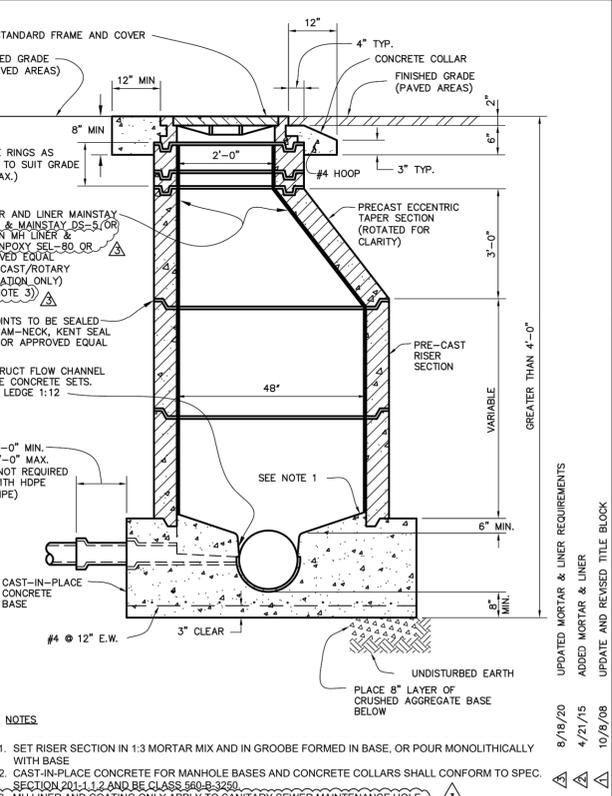
NOTES:
 1. WHEN THE MANHOLE HAS TO BE CUT DOWN SO THAT THE TAPERED SECTION AT THE TOP OF THE EXISTING MANHOLE EXCEEDS 20 INCHES, A CONCRETE SHOULDER MUST BE CONSTRUCTED AS SHOWN ABOVE.
 2. WHEN DIRECTED BY THE ENGINEER, THE EXISTING FRAME AND COVER SHALL BE SALVAGED AND RETURNED TO THE CITY CORPORATION YARD, 1326 ALLSTON WAY.
 3. CAST-IN-PLACE CONCRETE COLLARS SHALL CONFORM TO SPECIFICATIONS (GREENBOOK) SECTION 201-1.1.2 AND BE CLASS 560-B-3250.

DESIGN: TP	DATE: 5/18	PLAN: 8194	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS STANDARD DETAIL
DRAWN: MS	SCALE: N.T.S.	FILE: 20B-170	
CHECK: KE			
APPROVED: [Signature]	DATE: 5-23-18		MANHOLE FRAME & COVER ADJUSTMENT - LOWERING



NOTES:
 1. FOR HOPE PIPE USE ELECTROFUSION COUPLING.
 2. FOR PIPE MATERIALS OTHER THAN HOPE USE FERNCO COUPLING STRONG BACK (RC) 5000 SERIES OR APPROVED EQUAL.
 3. SEWER LATERAL SHALL REMAIN IN SERVICE AT ALL TIMES.

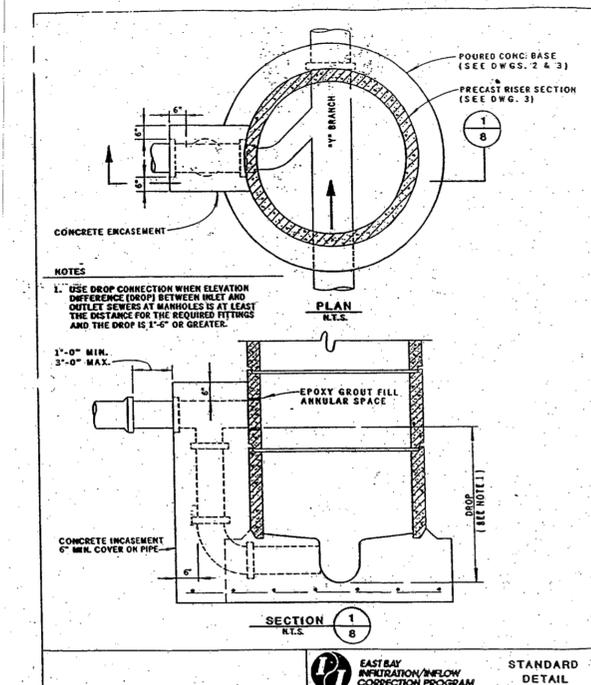
DESIGN: TP	DATE: 4/2019	PLAN: 8214	CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS STANDARD DETAIL
DRAWN: MS	SCALE: N.T.S.	FILE: 20B-174	
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APPROVED: [Signature]	DATE: 4-29-19		SEWER LATERAL REPAIR



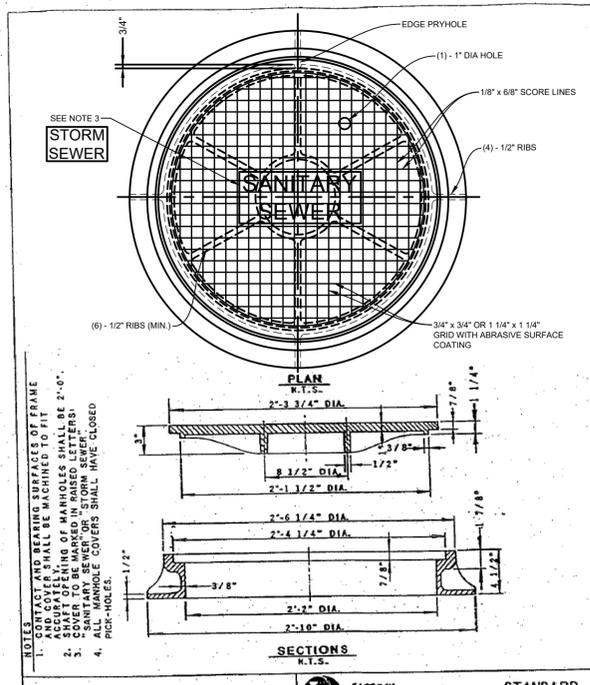
CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS		STANDARD DETAIL PRECAST MANHOLE ECCENTRIC CONE	
SUBMITTED:	DATE: 8/19/20	DESIGN: JR	DATE: 1/02
SUPERVISING CIVIL ENGINEER	R.C.E. 37829	DRAWN: MS	SCALE: N.T.S.
APPROVED:	DATE: 3/31/21	CHECK: MS	BOOK: N.T.S.
MANAGER OF ENGINEERING	R.C.E. 49027	EXP: 9/30/20	FILE: 20-B-147

GENERAL NOTES FOR CONCRETE FLAT WORK:
 1. CURB RAMP SHALL CONFORM TO THE LATEST EDITION AND REVISED STANDARD PLAN (RSP) OF THE (CALIFORNIA DEPARTMENT OF TRANSPORTATION) STANDARD SPECIFICATIONS AND STANDARD PLAN 88A AND 88B.
 2. PORTLAND CEMENT CONCRETE FOR SIDEWALK, CURB, DRIVEWAY, GUTTER AND VALLEY GUTTER SHALL BE MINOR CONCRETE CONFORMING TO THE REQUIREMENTS OF SECTION 90-2 MINOR CONCRETE OF THE (CALIFORNIA DEPARTMENT OF TRANSPORTATION) STANDARD SPECIFICATIONS. NO BAGGED MIX IS PERMITTED.
 3. BUS PAD CONCRETE SHALL BE DESIGNED WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AND SHALL BE SAMPLED (3 CYLINDERS REQ'D) AND TESTED.
 4. EXISTING SUBGRADE SURFACE SHALL BE RE-GRADED (IF NECESSARY) AND RE-COMPACTED (MIN 95% RELATIVE COMPACTION) TO CONFORM TO THE GRADES SHOWN ON THE PLANS.
 5. NEW CONCRETE WORK SHALL MATCH EXISTING IN FINISH, SCORE PATTERN, AND COLOR, OR AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
 a) ROSE COLORED CONCRETE SHALL CONTAIN 6 POUNDS OF DAVIS #160 (ROSE) PER CUBIC YARD.
 b) ALL OTHER CONCRETE SHALL CONTAIN 1.5 POUND OF LAMPBLACK PER CUBIC YARD.
 6. NO ADMIXTURES SHALL BE USED WITHOUT APPROVAL OF THE ENGINEER.
 7. CURBS, SIDEWALKS, DRIVEWAYS, AND CURB RAMP SHALL HAVE FORMS REMOVED AND BE BACKFILLED WITHIN 3 DAYS AFTER PLACING CONCRETE. CONCRETE SHALL BE ALLOWED TO CURE FOR AT LEAST 48 HOURS PRIOR TO BACKFILLING.
 8. MAXIMUM SLUMP OF FRESH CONCRETE PERMITTED IN THESE ITEMS SHALL BE 4 INCHES. SLUMP SHALL BE DETERMINED BY OTHER ASTM C-143 OR CALIFORNIA TEST METHOD NO. 520 AT THE ENGINEER'S DISCRETION. CONCRETE SHALL BE TRANSPORTED IN TRUCK MIXERS OR AGITATORS AND DISCHARGED WITHIN 70 MINUTES OF LEAVING THE PLANT.
 9. WEAKENED PLANE JOINTS AT LEAST 1-1/2 INCHES DEEP AND 1/8 INCHES WIDE SHALL BE PLACED AT TO FEET MAXIMUM SPACING.
 10. EXPANSION JOINT FILLER FOR CONCRETE (BITUMINOUS TYPE) MUST BE IN COMPLIANCE WITH ASTM D 994.
 11. ALL NEW CURB, SIDEWALK, VALLEY GUTTER AND DRIVEWAYS CONSTRUCTED ADJACENT TO EXISTING CONCRETE CURB OR SIDEWALK SHALL BE DOWELED TO THE EXISTING CONCRETE. THE DOWELS SHALL BE #4 REBAR, 18 INCHES LONG AT 18 INCHES MAXIMUM SPACING. DOWELS SHALL BE EMBEDDED A MINIMUM OF 8-INCHES IN A 5/8 INCH DRILLED HOLE (EXIST. CONC.).
 12. SIDEWALK SHALL BE CONSTRUCTED WITH EXPANSION JOINTS AT EACH BEGINNING OF CURVE (BC) AND END OF CURVE (EC).
 13. CURB AND GUTTER, SIDEWALKS AND DRIVEWAYS SHALL BE GIVEN A MEDIUM BROOM FINISH. THE SURFACE SHALL FIRST BE GIVEN A FLOATED FINISH AND FINAL TROWELING SHALL BE DONE WITH A STEEL TROWEL. THE FINISHED SURFACE SHALL BE FREE OF ALL TROWEL MARKS AND SHALL BE UNIFORM IN TEXTURE AND APPEARANCE. BROOM TEXTURE SHALL BE IN THE LONGITUDINAL DIRECTION.
 14. CLASS 2 AGGREGATE BASE (CL 2 AB) SHALL CONFORM TO THE CALTRANS STANDARD SPECIFICATIONS (LATEST EDITION) AND SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% RELATIVE COMPACTION.
 15. EXISTING ASPHALT CONCRETE SHALL BE SAWCUT, REMOVED AND RECONSTRUCTED FOR A MINIMUM OF 2- FEET WITHIN EDGES OF CONCRETE WORK. HOT MIX ASPHALT SHALL BE A MINIMUM THICKNESS OF 8" AND CL 2 AB SHALL MATCH EXISTING THICKNESS, AS APPROVED BY THE CITY ENGINEER. SEE PLAN 8148 "CURB AND GUTTER RETROFIT" FOR ADDITIONAL REQUIREMENTS.

CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS		STANDARD DETAIL CONCRETE WORK NOTES	
SUBMITTED:	DATE: 2/27/13	DESIGN: HEI	DATE: 01/26/17
SUPERVISING CIVIL ENGINEER	R.C.E. 41582	DRAWN: HEI	SCALE: N.T.S.
APPROVED: [Signature]	DATE: 2/20/17	CHECK: MS	BOOK: N.T.S.
MANAGER OF ENGINEERING	R.C.E. 66014	EXP: 6/6/14	FILE: 20B-156



CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS		STANDARD DETAIL CONCRETE WORK NOTES	
SUBMITTED:	DATE: 12/09/24	DESIGN: MA	DATE: 12/09/24
SUPERVISING CIVIL ENGINEER	R.C.E. 37829	DRAWN: DC	SCALE: N.T.S.
APPROVED: [Signature]	DATE: 04/2025	CHECK: TH	BOOK: N.T.S.
MANAGER OF ENGINEERING	R.C.E. 62524	EXP: 10/2025	FILE: 20B-156



CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS		STANDARD DETAIL MANHOLE COVER AND FRAME - TYPE A	
SUBMITTED:	DATE: 8/19/20	DESIGN: JR	DATE: 1/02
SUPERVISING CIVIL ENGINEER	R.C.E. 37829	DRAWN: MS	SCALE: N.T.S.
APPROVED:	DATE: 3/31/21	CHECK: MS	BOOK: N.T.S.
MANAGER OF ENGINEERING	R.C.E. 49027	EXP: 9/30/20	FILE: 20-B-147

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FOR CITY USE ONLY
 REFERENCE SEWER MAP NO.



PROJECT MANAGER: DATE 12/09/24
 FELIX MENEAL, ASSOCIATE CIVIL ENGINEER
 BAIRD BARTON, SURVEY PARTY CHIEF
 WATERSHED REVIEW: DATE 12/09/24

SUBMITTED: DATE 12/09/24
 R.C.E. 37829
 EXP. 04/2025
 DESIGN: MA
 DRAWN: DC
 CHECK: TH
 AS BUILT
 DATE 12/09/24

APPROVED: DATE 12/09/24
 R.C.E. 62524
 EXP. 10/2025
 DESIGN: MA
 DRAWN: DC
 CHECK: TH
 AS BUILT
 DATE 12/09/24

APPROVED: DATE 12/09/24
 R.C.E. 62524
 EXP. 10/2025
 DESIGN: MA
 DRAWN: DC
 CHECK: TH
 AS BUILT
 DATE 12/09/24

CITY OF BERKELEY
 DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION
 DETAILS
 LOCATION MAP & INDEX OF DRAWINGS

PROJECT NO.: 8272
 FILE NO.: 502-707
 SHEET 27 OF 29

STANDARD DETAIL TRENCH EXCAVATION AND SURFACE RESTORATION

NOTES:
 1. TRENCH EXCAVATION IN THE PUBLIC RIGHT OF WAY SHALL CONFORM TO THE CITY OF BERKELEY GENERAL REGULATIONS FOR TRENCH EXCAVATION AND SURFACE RESTORATION IN THE PUBLIC RIGHT OF WAY. CUT THROUGH THE FULL DEPTH OF EXISTING SURFACING TO A NEAT STRAIGHT LINE AT LEAST 1.0 FOOT OUTSIDE THE TRENCH LINE. RESTORE THE PAVEMENT EDGES DAMAGED DURING CONSTRUCTION TO NEAT LINES PRIOR TO PAVING. APPLY PAINT BINDER (TACK COAT) TO ALL VERTICAL SURFACES IN ACCORDANCE WITH THE LATEST EDITION OF CALTRANS STANDARD SPECIFICATIONS.
 2. MAXIMUM WIDTH OF TRENCH SHALL BE IN ACCORDANCE WITH THE DIMENSION SHOWN ON THE TRENCH BACKFILL DETAIL.
 3. CLASS 2 AGGREGATE BASE (AB) SHALL BE INSTALLED IMMEDIATELY BELOW THE PAVEMENT SECTION TO BE REPLACED. THE AB QUALITY, GRADATION AND THE METHOD OF INSTALLATION SHALL BE IN CONFORMANCE WITH SECTIONS 25 AND 28 OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION. THE DEPTH OF THE AB SHALL BE IN ACCORDANCE WITH THE TRENCH BACKFILL DETAIL. 95% RELATIVE COMPACTION IS REQUIRED.
 4. RELATIVE COMPACTION SHALL BE DETERMINED BY CALIFORNIA TEST NUMBER 216 (NUCLEAR GAUGE) OR APPROVED EQUAL. PERMITTEE SHALL ARRANGE AND PAY FOR THE TEST FOR RELATIVE COMPACTION WHEN ORDERED BY THE ENGINEER. THE TEST SHALL BE PERFORMED BY A QUALIFIED MATERIAL TESTING LABORATORY AND TEST RESULTS BE SUBMITTED TO ENGINEER FORTY EIGHT (48) HOURS IN ADVANCE OF PERMANENT PAVING OPERATION.
 5. PERMITTEE SHALL PLACE TEMPORARY BITUMINOUS RESURFACING TWO (2) INCHES IN THICKNESS OVER THE COMPACTED BACKFILL AREAS. GREATER THICKNESS MAY BE REQUIRED FOR MAJOR INTERSECTIONS AND OTHER CRITICAL AREAS BY THE ENGINEER AS NECESSARY.
 6. TEMPORARY BITUMINOUS RESURFACING (CUT-BACK) SHALL BE MECHANICALLY COMPACTED IN PLACE TO A UNIFORM, EVEN SURFACE AND SHALL BE TRUE TO STREET GRADE AND CROSS SECTION. THE PERMITTEE SHALL REGULARLY INSPECT AND MAINTAIN THE TEMPORARY BITUMINOUS RESURFACING UNTIL THE EXCAVATION IS PERMANENTLY PAVED. THE SURFACING SHALL NOT VARY TO MORE THAN 1/2" FROM THE EDGE OF A 10 FOOT STRAIGHT EDGE. UPON NOTIFICATION, THE PERMITTEE SHALL CORRECT THE SURFACE DEFICIENCY WITHIN 48 HOURS. LOOSE ROCKS AND OTHER DEBRIS REMOVED FROM TEMPORARY RESURFACING OPERATIONS SHALL BE IMMEDIATELY REMOVED FROM THE WORKSITE.
 7. TEMPORARY BITUMINOUS RESURFACING SHALL BE GENERATED BEFORE PLACEMENT OF FINAL PAVING. FINAL PAVING SHALL BE MINIMUM FIVE (5) INCHES THICK OR SAME AS THE EXISTING PAVEMENT, WHICHEVER IS GREATER. THE PAVEMENT SHALL BE PLACED ON UNDISTURBED PREVIOUSLY COMPACTED BACKFILL AREAS.
 8. PAVEMENT OUTSIDE OF THE FINAL CUT LINE DAMAGED BY THE PERMITTEE'S OPERATIONS SHALL BE REMOVED BY SAW-CUTTING IN LINES PERPENDICULAR OR PARALLEL TO THE ORIGINAL TRENCH LINES. NO DIAGONAL CUTS WILL BE PERMITTED.
 9. HOT MIX ASPHALT (HMA) SHALL BE 1/2 INCH TYPE A IN CONFORMANCE WITH SECTION 30 OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED IN THE ENCROACHMENT PERMIT CONDITIONS OR AS DIRECTED BY THE PUBLIC WORKS DEPARTMENT.
 10. THE TOP 2" OF ASPHALT CONCRETE PAVEMENT SHALL HAVE A MINIMUM AGGREGATE SIZE OF 3/8". THE ASPHALT CONCRETE BENEATH THE TOP LAYER SHALL HAVE A MAXIMUM AGGREGATE SIZE OF 3/4".
 11. UPON COMPLETION OF PAVING OPERATIONS THE PERMITTEE SHALL IMMEDIATELY REPLACE ALL PAVEMENT MARKING AND TRAFFIC STRIPING DAMAGED OR REMOVED BY HIS OPERATIONS. PAVEMENT MARKINGS AND TRAFFIC STRIPING SHALL BE REPLACED IN KIND OR WITH SUBSTITUTE MATERIAL APPROVED BY THE ENGINEER.
 12. WHEN ANY PORTION OF THE CURB AT A LEGAL SIDEWALK OR ANY PORTION OF THE SIDEWALK IN IMMEDIATE CONTACT WITH SUCH CURB IS REMOVED BY THE PERMITTEE OPERATIONS, THE PERMITTEE SHALL CONSTRUCT, AS PART OF HIS REPLACEMENT OPERATIONS, A HANDICAP ACCESS RAMP AS SHOWN IN THE CITY OF BERKELEY STANDARD DETAIL FOR WHEEL CHAIR RAMP, PLAN 6700.
 13. EXCAVATION ON STREETS RECONSTRUCTED OR RESURFACED WITHIN THE LAST 5 YEARS WILL NOT BE PERMITTED EXCEPT FOR CONDITIONS ENUMERATED IN THE CITY OF BERKELEY GENERAL REGULATIONS AND FOR TRENCH EXCAVATION AND SURFACE RESTORATION IN THE PUBLIC RIGHT OF WAY.
 14. MINIMUM COVER OVER UTILITIES IS GOVERNED BY THE CALIFORNIA PUBLIC UTILITIES COMMISSION. UTILITY OWNERS SHALL CONSIDER PLACING THEIR UTILITY LINE AT A GREATER DEPTH TO AVOID FUTURE RELOCATION DUE TO STREETROAD RECONSTRUCTION. THE INCREASED DEPTH SHOULD INCLUDE SUFFICIENT CLEARANCE BETWEEN THE UTILITY AND PAVEMENT STRUCTURAL SECTION UPGRADE TO PREVENT DAMAGE BY CONSTRUCTION EQUIPMENT. THE PUBLIC WORKS DEPARTMENT RECOMMENDS A MINIMUM OF 36 INCHES OF COVER BELOW THE PAVEMENT SURFACE IN ROADWAYS AND 24 INCHES BELOW FINISH GRADE IN SIDEWALKS AND OTHER PUBLIC RIGHT OF WAY.
 15. RESTORATION OF THE TRENCH EXCAVATION ON CALTRANS RIGHT OF WAY (SAN PABLO AVE., ASHBY AVE., AND TUNNEL RD.) SHALL BE IN ACCORDANCE WITH CALTRANS ENCROACHMENT PERMIT.
 16. RESTORE PAVEMENT AS FOLLOWS: FOR TRENCHES PARALLEL WITH THE CENTERLINE OF THE STREET, COLD PLANE AND REPAVE THE LANE IN WHICH THE TRENCH LIES FOR TRANSVERSE TRENCHES. COLD PLANE AND REPAVE 1/2 LANE WIDTH ON EACH SIDE OF THE TRENCH FOR BELL HOLES. COLD GRIND AND PAVE 1/2 LANE WIDTH ON EACH SIDE OF THE EXCAVATION. PRIOR TO COLD PAVING, THE TRENCH SHALL BE PAVED TO 3 INCH MAXIMUM LIFTS TO THE ORIGINAL SURFACE GRADES OR TO WITHIN 2 1/2 INCHES OF THE EXISTING SURFACE. IF THE CONTRACTOR ELECTS TO PAVE WITHIN 2 1/2 INCHES OF THE EXISTING SURFACE, THE REMAINING 2 1/2 INCHES MUST BE PAVED WITH CUT-BACK ASPHALT UNITS. THE SURFACE IS PAVED. FINAL PAVING SHALL COMMENCE WITHIN 3 DAYS AFTER COLD GRINDING. ALL LOOSE MATERIAL SHALL BE REMOVED FROM THE AREA TO BE REPAVED PRIOR TO REPAVING.
 17. BEDDING MATERIAL SHALL BE CLASS 2 AB. ALTERNATIVE MATERIALS SHALL BE APPROVED BY THE PUBLIC WORKS DEPARTMENT. IN NO CASE SHALL "PEA" GRAVEL BE ALLOWED A MAXIMUM OF 8 INCHES OF SAND MAY BE USED AS A BEDDING MATERIAL FOR COMMUNICATION, GAS AND ELECTRIC CONDUITS ONLY.
 18. FOR GAS, ELECTRIC AND COMMUNICATION CONDUITS WITH AN OUTSIDE DIAMETER EQUAL TO OR LESS THAN 4 INCHES, THE TRENCH WIDTH MAY BE REDUCED TO NO LESS THAN 12 INCHES.
 19. UNSUITABLE NATIVE MATERIAL SHALL BE EXCAVATED BELOW THE LIMIT OF EXCAVATION AND REPLACED WITH SUITABLE BACKFILL MATERIAL WHEN DIRECTED BY THE PUBLIC WORKS DEPARTMENT.
 20. DIMENSIONS "X" IS SHOWN BELOW FOR THE UTILITY "O.D."

UTILITY O.D.	"X" MIN
UNDER 1.0"	0.5"
1.0" TO 4.0"	1.0"
OVER 4.0"	2.0"

LEGEND:
 HOT MIX ASPHALT (HMA) PAVING (SEE NOTE 9)
 CONCRETE PAVEMENT
 CLASS 2 AGGREGATE BASE (AB)
 BEDDING MATERIAL (SEE NOTE 17)
 CLASS 2 AGGREGATE BASE (AB) OR SUITABLE NATIVE BACKFILL MATERIAL AS APPROVED BY PUBLIC WORKS DEPARTMENT

APPROVED: *P-L0* MANAGER OF ENGINEERING

CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS
 DESIGN: HEI DATE: 02/20/16 PLAN: 8136
 DRAWN: HEI SCALE: N.T.S. FILE: 20B-155
 CHECK: MS BOOK: SHEET: 1 OF 2

STANDARD DETAIL TRENCH EXCAVATION AND SURFACE RESTORATION

NOTES:
 1. REFER TO GENERAL NOTES FOR CONCRETE WORK.
 2. RESIDENTIAL DRIVEWAYS SHALL BE 6 INCHES THICK PORTLAND CEMENT CONCRETE (PCC). COMMERCIAL AND INDUSTRIAL DRIVEWAYS SHALL BE 6 INCHES THICK REINFORCED CONCRETE. REINFORCEMENT SHALL BE 6"x6" WELDED WIRE FABRIC, #10 GAUGE MESH OR #4 BARS AT 18 INCH O.C. EACH WAY. THE REQUIRED STRUCTURAL SECTION FOR ANY DRIVEWAY SHALL BE CONTINUOUS FROM THE CURB TO THE BACK OF SIDEWALK.
 3. DEPTH OF GUTTER FLOWS SHALL BE CALCULATED AND COMPARED TO PROPOSED SIDEWALK ELEVATIONS DURING DESIGN TO ENSURE GUTTER FLOWS ARE CONTAINED AND RUNOFF WITHIN THE PUBLIC RIGHT OF WAY DOES NOT DRAIN ONTO PRIVATE PROPERTY.
 4. RETAINING CURBS AND DRIVEWAY CONFORMS AS REQUIRED.
 5. FOR ADDITIONAL REQUIREMENTS, SEE PLAN 8144, "CONCRETE WORK NOTES."

CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS
 SUBMITTED: *D. Derby* DATE: 2/27/17
 SUPERVISING CIVIL ENGINEER R.C.E. 64582
 APPROVED: *P-L0* DATE: 2/28/17
 MANAGER OF ENGINEERING R.C.E. 66014

DESIGN: HEI DATE: 02/20/16 PLAN: 8136
 DRAWN: HEI SCALE: N.T.S. FILE: 20B-155
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STANDARD DETAIL CURB AND GUTTER

NOTE:
 1. FOR ADDITIONAL REQUIREMENTS, SEE PLAN 8144, "CONCRETE WORK NOTES."

CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS
 DESIGN: HEI DATE: 01/26/17 PLAN: 8145
 DRAWN: HEI SCALE: N.T.S. FILE: 20B-157
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STANDARD DETAIL VALLEY GUTTER

NOTE:
 1. FOR ADDITIONAL REQUIREMENTS, SEE PLAN 8144, "CONCRETE WORK NOTES."

CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS
 DESIGN: HEI DATE: 01/26/17 PLAN: 8149
 DRAWN: HEI SCALE: N.T.S. FILE: 20B-161
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STANDARD DETAIL DRIVEWAY

NOTE:
 1. PAVEMENT SECTION SHALL BE AS APPROVED BY THE CITY ENGINEER. LAYERS SHALL NOT BE LESS THAN THE EXISTING THICKNESS.

Dimension	Commercial & Industrial	Residential
Y	5' MIN	2' MIN
W	12' MIN	8' MIN

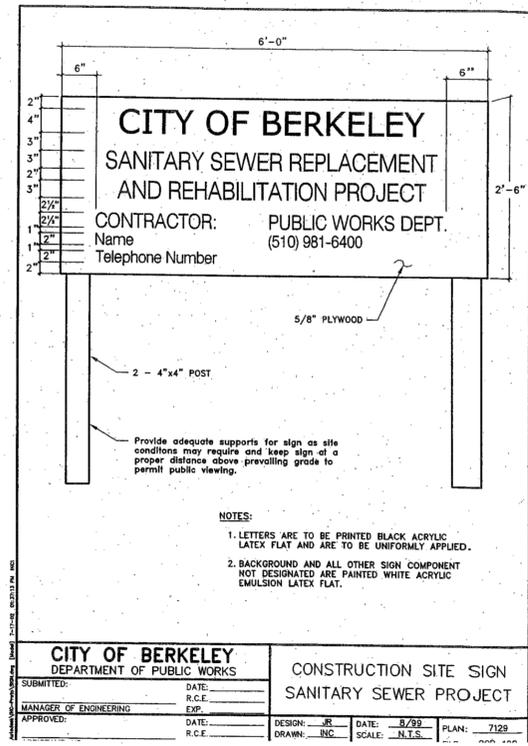
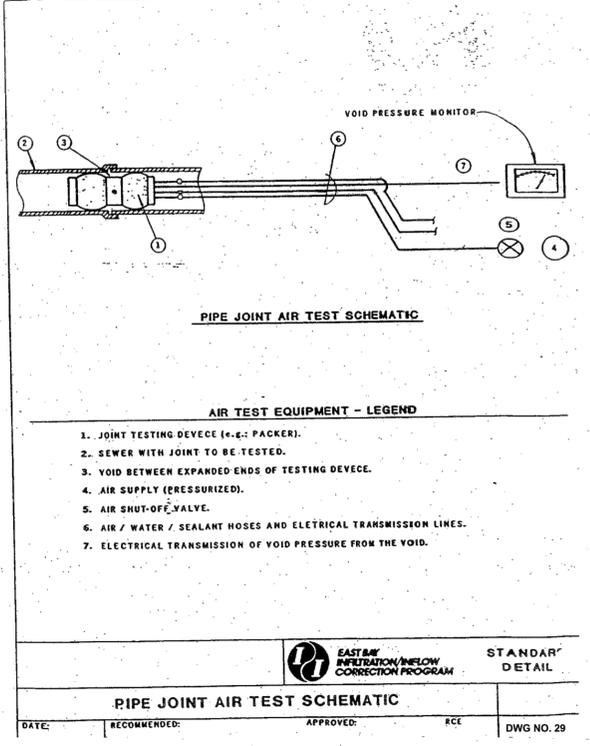
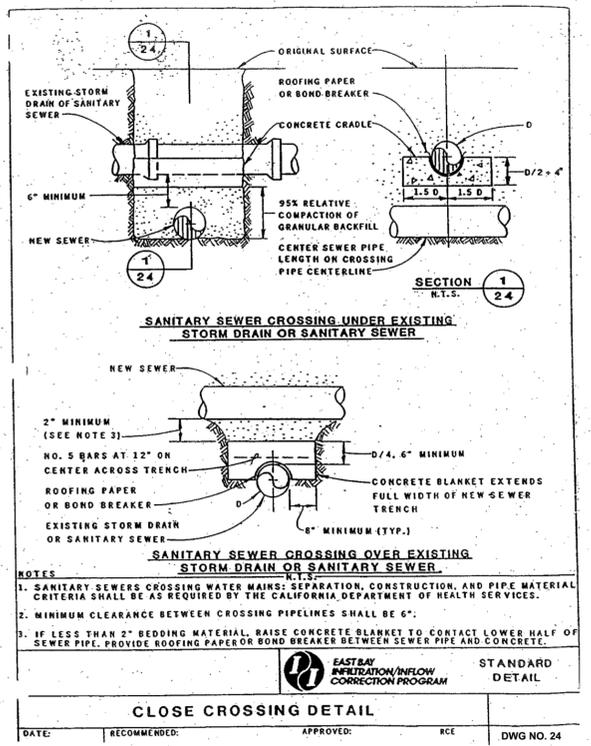
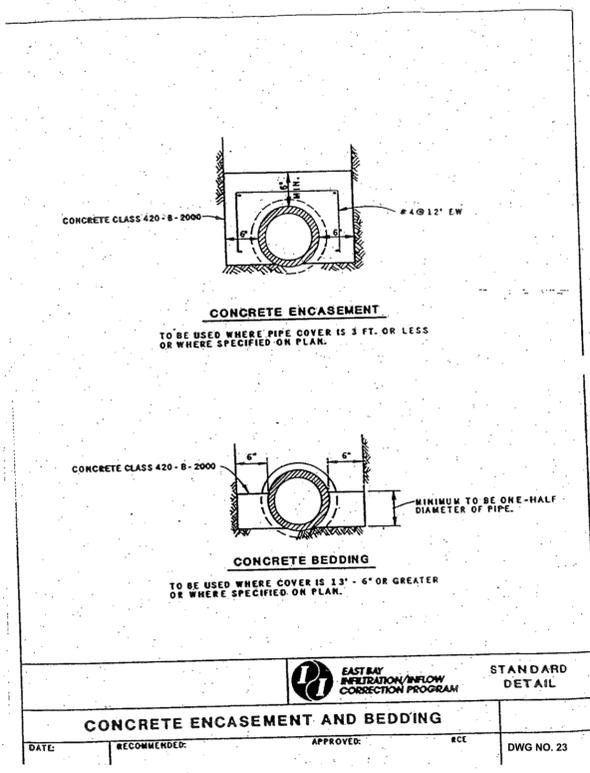
CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS
 DESIGN: HEI DATE: 01/26/17 PLAN: 8151
 DRAWN: HEI SCALE: N.T.S. FILE: 20B-163
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STANDARD DETAIL SIDEWALK

NOTE:
 1. FOR ADDITIONAL REQUIREMENTS, SEE PLAN 8144, "CONCRETE WORK NOTES."

CITY OF BERKELEY DEPARTMENT OF PUBLIC WORKS
 DESIGN: HEI DATE: 01/26/17 PLAN: 8153
 DRAWN: HEI SCALE: N.T.S. FILE: 20B-165
 CHECK: MS BOOK: SHEET: 1 OF 1

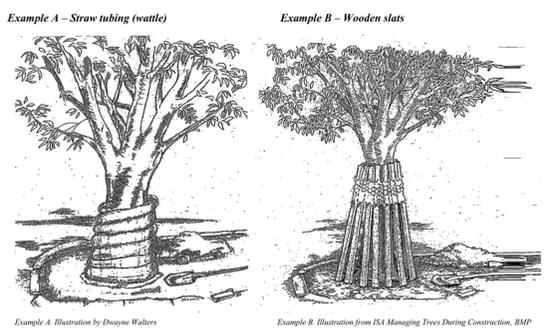
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City of Berkeley Tree Protection Instructions

Figure 1: Examples of Tree Trunk Protection

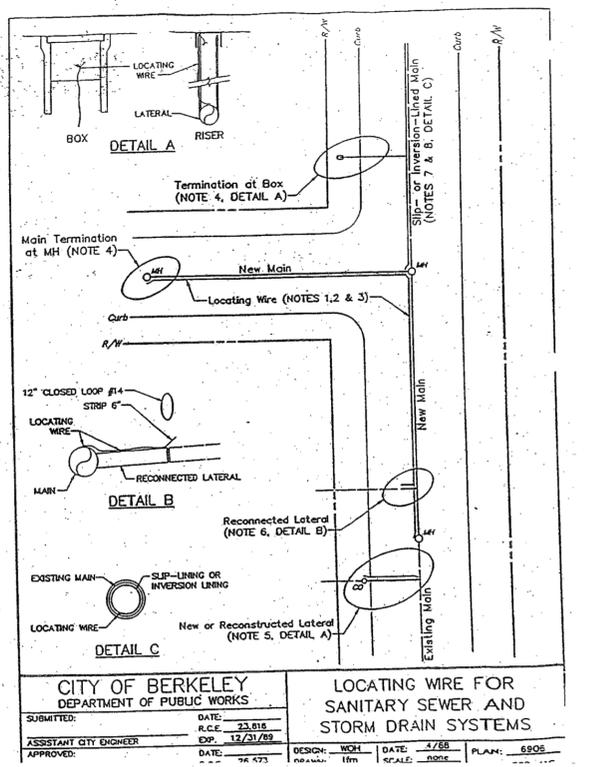
The following illustrations are examples of tree trunk protection measures. One of these examples shall be used when any approved construction activity takes place within the dripline of a protected tree that is not surrounded by protective fencing.



- Minimum Requirements:**
- Trees situated in a tree well or sidewalk planting strip shall have the trunk protected by wrapping it with straw tubes (wattle) or vertical wood slats (ex. 2x4), up to a minimum of 8 feet from grade.
 - Wooden slats shall be angled to protect the root flare at the base of the tree and bound securely on the outside.
 - Closed cell foam or an equivalent material shall be used to protect the trunk of the tree where it contacts the slats.
 - Lateral branches below 8 feet shall also be protected.
 - Contractor shall keep deleterious materials associated with project construction from contacting any part of the trees, or being placed or stored in the tree well or planting strip.

TREE PROTECTION NOTES:

- NO STREET TREE ROOTS ARE TO BE CUT WITHOUT APPROVAL OF CONTRACTOR'S LICENSED CERTIFIED ARBORIST.
- ARBORIST: CONTRACTOR SHALL RETAIN A LICENSED CERTIFIED, CITY-APPROVED ARBORIST FOR "ON-CALL" CONSULTATION DURING CONSTRUCTION AS SPECIFIED IN THE SPECIAL PROVISIONS AND INDICATED ON THESE PLANS. NO EQUIPMENT SHALL BE PERMITTED ON-SITE UNTIL THE ARBORIST HAS APPROVED THE PROPOSED STAGING AREA(S). NO TREE PRUNING, REMOVAL OR ROOT-CUTTING SHALL OCCUR WITHOUT THE ARBORIST'S DIRECTION, RECOMMENDATIONS OR APPROVAL.
- TRENCHING: ALL TRENCHING WITHIN THE DRIP LINE OF EXISTING TREES SHALL BE BY HAND WITH CARE TAKEN NOT TO DAMAGE ROOTS OVER 2" DIAMETER.
- ADVANCED WARNING: THE ARBORIST SHALL MARK LIMITS OF AREA WITHIN DRIP LINES IN ADVANCE PRIOR TO CONSTRUCTION.
- PRUNING: TREES SHALL BE PRUNED ONLY AS RECOMMENDED BY THE ARBORIST AND APPROVED BY THE CITY. EXISTING TREES WITH BRANCHES ENCRDACHING TO 1" FROM BACK OF CURB AND LESS THAN 16" FROM FINISHED GRADE SHALL BE PRUNED UNDER THE DIRECTION OF A CITY APPROVED CERTIFIED ARBORIST.
- CONSTRUCTION OPERATIONS: NO CONSTRUCTION OPERATIONS SHALL BE CARRIED ON WITHIN THE DRIP LINE AREA OF ANY TREE DESIGNATED TO BE SAVED EXCEPT AS AUTHORIZED BY THE ARBORIST.
- STORAGE: THE AREA UNDER THE DRIP LINES OF THE TREE SHALL BE KEPT CLEAN. NO CONSTRUCTION MATERIALS AND NO CHEMICAL SOLVENTS SHALL BE STORED OR DUMPED UNDER A TREE.
- TREE DAMAGE: ANY DAMAGE TO EXISTING TREE CROWNS OR ROOT SYSTEMS SHALL BE REPAIRED IMMEDIATELY BY AN APPROVED TREE SURGEON UNDER THE DIRECTION OF THE ARBORIST.
- CONTRACTOR SHALL PERFORM DEMOLITION, CUT, CLEAN AND INSTALL GENERAL LANDSCAPE SOIL AT THE EXISTING TREES AS REQUIRED AND APPROVE BY THE CITY.
- CONTRACTOR'S ATTENTION IS DIRECTED TO THE CITY OF BERKELEY'S "GUIDELINES AND TREE PROTECTION REQUIREMENTS FOR DEVELOPMENT PROJECTS" (GUIDELINES) PROVIDED IN THE PROJECT SPECIAL PROVISIONS, OF WHICH FIGURE 1, SECTION III IS PROVIDED BELOW.



FOR CITY USE ONLY
REFERENCE SEWER MAP NO.



PROJECT MANAGER: DATE 12/09/24
FELIX MENEAL, ASSOCIATE CIVIL ENGINEER

DEPICTION OF MONUMENTS: DATE 12/09/24
BAIRD BARTON, SURVEY PARTY CHIEF

WATERSHED REVIEW: DATE 12/09/24

FOR REDUCED PLANS - ORIGINAL SCALE IS IN INCHES

SUBMITTED: DATE 12/09/24
R.C.E. 37829
EXP. 04/2025

APPROVED: DATE 12/09/24
R.C.E. 62524
EXP. 10/2025

RONALD NEVELS, CITY ENGINEER

DESIGN: MA
DRAWN: DC
CHECK: TH
AS BUILT

HORIZ. _____
VERT. _____
BOOK _____
DATE: 12/09/24

CITY OF BERKELEY
DEPARTMENT OF PUBLIC WORKS

SANITARY SEWER REHABILITATION DETAILS
LOCATION MAP & INDEX OF DRAWINGS

PLAN NO.: 8272
FILE NO.: 502-707
SHEET 29 OF 29

APPROVAL	
DESCRIPTION	
DATE	
MARK	
REVISION	