

SHEET NO.	SHEET DESCRIPTION
1	TITLE SHEET
2	CONSTRUCTION NOTES
3	CROSS SECTIONS
4	SURVEY CONTROL PLANS
5-7	IMPROVEMENT PLANS
8-11	SIDEWALK GRADING PLANS
12-15	CURB RAMP GRADING PLANS
16-19	DRAINAGE PLANS
20-22	DRAINAGE PROFILE
23-25	BIORETENTION AREA PLANS
26-28	SIGNING AND STRIPING PLANS
29-31	ELECTRICAL PLANS
32-35	CONSTRUCTION DETAILS

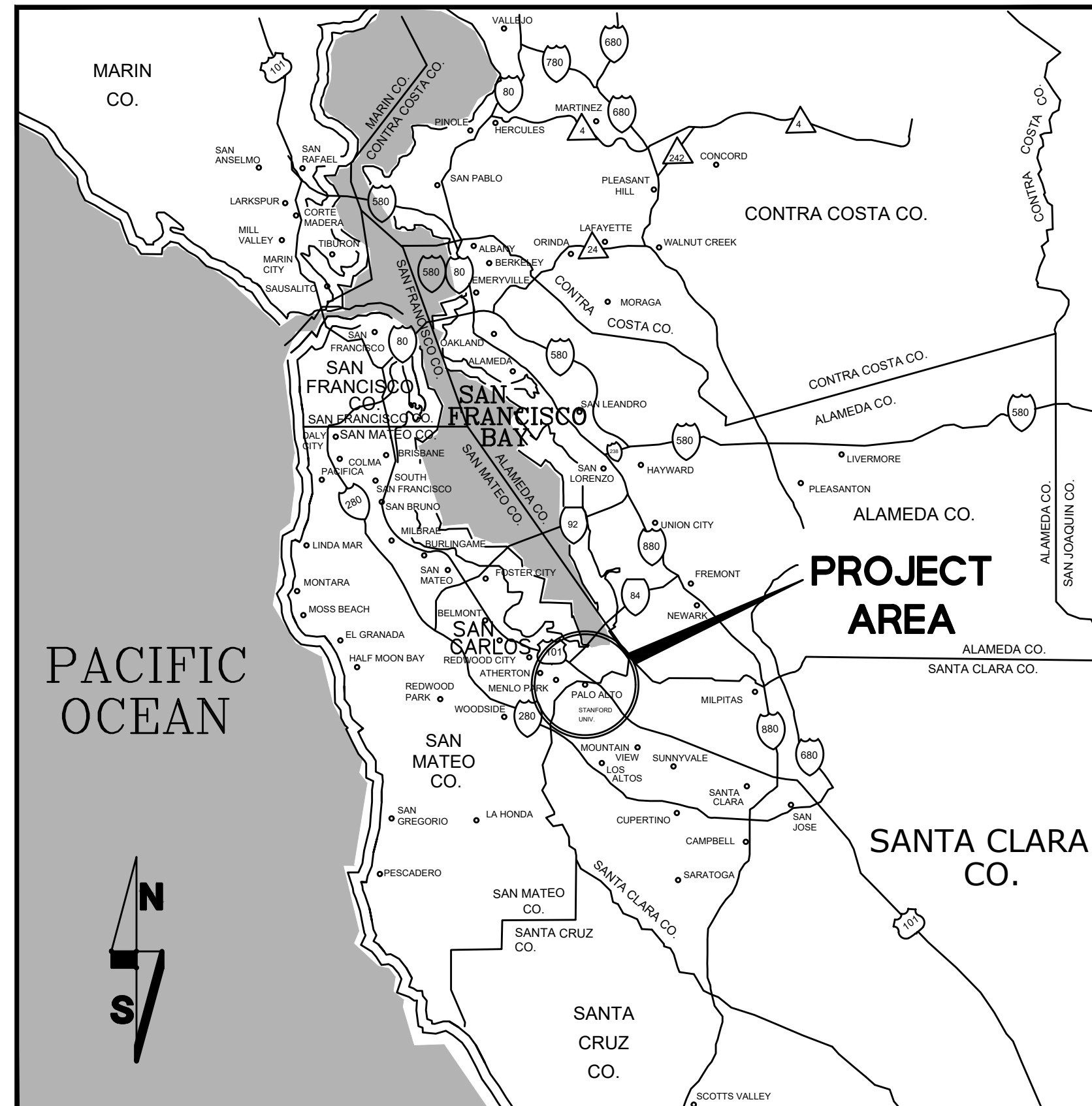
INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

B-10	STANDARD STORM DRAIN MANHOLE
B-15	STANDARD TRENCH BACKFILL AND BEDDING DETAIL FOR STORM DRAIN PIPES
D-1	DRIVEWAYS WIDTHS AND CURB OPENINGS FOR SINGLE FAMILY RESIDENTIAL DWELLINGS
D-2	DRIVEWAY WIDTHS AND CURB OPENINGS FOR COMMERCIAL AND INDUSTRIAL HWY. FRONTAGE
D-3	CONCRETE CURB, GUTTER, AND SIDEWALK DETAILS
D-5	VALLEY GUTTER DETAILS
D-6	DRAINAGE UNDER SIDEWALK
D-8	STREET NAME SIGN

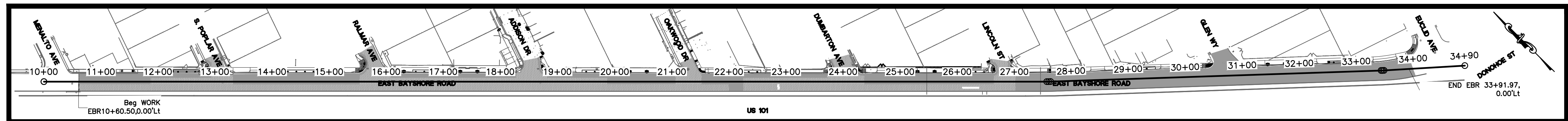
A20A-	PAVEMENT MARKERS AND TRAFFIC LINES
A20G	
A24A-	PAVEMENT MARKINGS
A24G	
A85-	FENCE AND GATE DETAILS
A85B	
A88A	CURB RAMP DETAILS
ES-2D	ELECTRICAL SYSTEMS (SERVICE EQUIPMENT ENXLOSURE, AND TYPICAL WIRING DIAGRAM, TYPE III - A SERIES)
ES-8A	ELECTRICAL SYSTEMS (NON-TRAFFIC PULL BOX, TYPE NO.6)
T62	TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

601A	TREE GRATE & INSTALLATION DETIALS
602	STREET TREE PLANTING WITH ENGINEERED SOIL MIX

PLANS FOR
CIP PROJECT ST-28
EAST BAYSHORE ROAD PEDESTRIAN AND CYCLIST
SAFETY IMPROVEMENTS PROJECT



NOT TO SCALE



NOT TO SCALE

THIS PROJECT INCLUDES IMPROVEMENTS OF CONCRETE SIDEWALK, DRIVEWAYS, CURB, GUTTER, ADA COMPLIANT CURB RAMPS, PAVEMENT REPLACEMENT, SLURRY SEAL, SIGNING, STRIPING, PAVEMENT MARKINGS, AND OTHER RELATED WORK, CONSISTING OF TRAFFIC CONTROL, DRAINAGE, DRAIN INLETS, PIPE INSTALLATION, STORMWATER POLLUTION PREVENTION, DEMOLITION, STREET LIGHTING, ELECTRICAL CONDUITS, ADJUSTING SURFACE FACILITY COVERS, AND SLURRY SEAL.

AC	ASPHALT CONCRETE	N	NEW
AB	AGGREGATE BASE	OC	ON CENTER
APS	ACCESSIBLE PEDESTRIAN SIGNALS	OH	OVERHEAD
BK	BIKE LANE	PCC	PORTLAND CONCRETE CEMENT
BIO	BIORETENTION	P&G&E	PACIFIC GAS AND ELECTRIC
BW	BACK OF WALK	PPB	PEDESTRIAN PUSH BUTTON
C&G	CURB AND GUTTER	PP	POWER POLE
CJ	CONSTRUCTION JOINT	PVMT	PAVEMENT
CL	CENTERLINE	PVT	PRIVATE
CONC	CONCRETE	RHMA	RUBBERIZED HOT MIX ASPHALT
CR	CURB RAMP	RSP	REVISED STANDARD PLANS
DI	DRAINAGE INLET	ROW	RIGHT OF WAY
DET	DETAIL	RWV	RECYCLED WATER VALVE
DWS	DETECTABLE WARNING SURFACE	R&R	REMOVE & REPLACE
DWY	DRIVEWAY	SD	STORM DRAIN
EP	EDGE OF PAVEMENT	SDMH	STORM DRAIN MANHOLE
EVT	ELECTRICAL VAULT	SP	SIGNAL POLE
EX	EXISTING	SSMH	SANITARY SEWER MANHOLE
FC	FACE OF CURB	SVP	SILICON VALLEY POWER
FH	FIRE HYDRANT	SIE	SIDECAST
FL	FLOW LINE	SW	SIDEWALK / SOUTHWEST
GB	GRADE BREAK	STD	STANDARD
GV	GAS VALVE	TBD	TO BE DETERMINED
HDPE	HIGH-DENSITY POLYETHYLENE	TC	TOP OF CURB
HMA	HOT MIX ASPHALT	TG	TOP OF GRATE
HP	HIGH POINT	T.C.	TRAFFIC INDEX
INV	INVERT	TMH	TELEPHONE MANHOLE
IRR	IRRIGATION	TPB	TRAFFIC PULL BOX
LG	LIP OF GUTTER	TS	TRAFFIC SIGNAL
LP	LOW POINT / LAMP POST	TPY	TYPICAL
MON	MONUMENT	VG	VALLEY GUTTER
NE	NORTHEAST	WCW	WHITE CROSSWALK
N.I.C.	NOT IN CONTRACT	WV	WATER VALVE
NW	NORTHWEST	YCW	YELLOW CROSSWALK
NTS	NOT TO SCALE	YL	YELLOW LINE

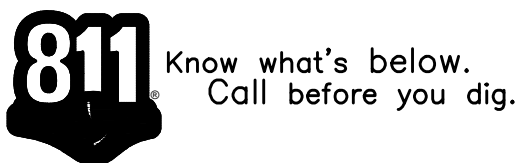
THE UNDERSIGNED HEREBY CERTIFIES THAT A PROFESSIONAL PEER REVIEW OF THESE PLANS AND THE REQUIRED DESIGN WAS CONDUCTED BY ME, A PROFESSIONAL ENGINEER WITH EXPERTISE AND EXPERIENCE IN THE APPROPRIATE FIELD OF ENGINEERING EQUAL TO OR GREATER THAN THE ENGINEER OF RECORD, AND THAT APPROPRIATE CORRECTIONS HAVE BEEN MADE.

PRINT NAME _____ SIGNATURE _____ DATE _____

THE CITY OF EAST PALO ALTO HEREBY ACCEPTS THESE PLANS FOR CONSTRUCTION, AS BEING IN GENERAL COMPLIANCE WITH PLANS PREPARATION REQUIREMENTS OF THIS AGENCY. RESPONSIBILITY FOR THE COMPLETENESS AND ACCURACY OF THE PLANS AND RELATED DESIGN RESIDES WITH THE ENGINEER AND ENGINEERING FIRM OF RECORD.

RECOMMENDED
FOR BIDDING: HUMZA JAVED
PUBLIC WORKS DIRECTOR

APPROVED
FOR BIDDING: BATOOL ZARO
SENIOR ENGINEER



1. ALL REFERENCES TO "COUNTY" IN THESE PLANS SHALL MEAN THE COUNTY OF SAN MATEO.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE COUNTY OF SAN MATEO STANDARD DRAWINGS AND THE CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND STANDARD PLANS DATED 2023, WHICH ARE HEREBY INCORPORATED INTO THESE PLANS.
3. THE CONTRACTOR SHALL COMPLY WITH ALL STATE, COUNTY, AND CITY LAWS AND ORDINANCES, REGULATIONS OF THE DEPARTMENT OF INDUSTRIAL RELATIONS, O.S.H.A., AND COMMISSION ON HEALTH AND SAFETY AND WORKER'S COMPENSATION RELATING TO SAFETY AND CHARACTER OF WORK, EQUIPMENT AND LABOR PERSONNEL.
4. THE ENGINEER ASSUMES NO RESPONSIBILITY BEYOND ADEQUACY OF THE DESIGN CONTAINED HEREIN.
5. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE CITY.
6. THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS, SURROUNDING LANDSCAPE, AND ALL OTHER EXISTING CONDITIONS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC., AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS, AND HAZARDOUS CONDITIONS.
7. ELEVATIONS INDICATED IN THE DRAWINGS ARE BASED ON AVAILABLE INFORMATION DURING PREPARATION OF THE DRAWINGS. ANY SIGNIFICANT DEVIATIONS FROM THE ACTUAL SITE CONDITIONS SHALL BE REPORTED TO THE CITY.
8. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS REGARDING MATERIAL, METHODS OF WORK, AND DISPOSAL OF EXCESS AND WASTE MATERIALS.
9. ANY SURFACE UTILITIES, SUCH AS MANHOLES, VALVES, MONUMENTS, DRAIN INLETS, AND UTILITY BOXES SHOWN TO BE WITHIN CONSTRUCTION LIMITS SHALL BE ADJUSTED IN ELEVATION TO MATCH THE FINISHED ROADWAY/SIDEWALK SURFACE. UTILITY COVERS SHALL NOT BE STRIPED OVER.
10. THE CONTRACTOR SHALL NOTIFY ALL TRANSIT AGENCIES, TRASH COLLECTION AGENCY, AND EMERGENCY SERVICES OF THE CONSTRUCTION SCHEDULE TO ALLOW COORDINATION.
11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE SITE OR SURROUNDING AREA AS A RESULT OF THE CONTRACTOR'S WORK OR OPERATIONS. EXISTING CURB, GUTTER AND OTHER IMPROVEMENTS THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE BE REPLACED AT THE CONTRACTOR'S SOLE EXPENSE.
12. CONCRETE CURB, GUTTER, DRIVEWAY, SIDEWALK AND PAVEMENT REMOVAL AND REPLACEMENT MUST BE KEPT TO ONE SIDE OF THE STREET UNTIL WORK FOR THAT SIDE IS COMPLETE, KEEPING THE OTHER SIDE FREE OF OBSTRUCTION FOR THE NEIGHBORHOOD'S SAFE USE.

1. SEE PROJECT SPECIFICATIONS, SECTION 103, FOR WORK HOURS AND RESTRICTIONS.

1. SEE PROJECT SPECIFICATIONS, SECTION 103, OF THE TECHNICAL SPECIFICATIONS, FOR TRAFFIC CONTROL REQUIREMENTS.

1. ALL SIGNS SHALL BE PER THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
2. INSTALLATION OF SIGNS, MARKINGS AND STRIPING SHALL BE PER PROJECT PLANS AND SPECIFICATIONS, HOWEVER, CONTRACTOR SHALL CONFIRM EXACT SIGN LOCATIONS IN THE FIELD WITH ENGINEER PRIOR TO EXCAVATION OF THE FOUNDATION.
3. UNLESS OTHERWISE SHOWN OR NOTED, ALL SIGNING SHOWN ON THESE PLANS SHALL BE NEW SIGNS MOUNTED ON NEW POLES / POSTS AND FOUNDATIONS PER PROJECT DETAILS.
4. ALL SIGNS (EXISTING AND PROPOSED) WITHIN PROJECT LIMITS SHALL HAVE A MINIMUM CLEARANCE OF 7' TO THE BOTTOM OF THE SIGN SIGN PANEL. NOTIFY ENGINEER IN CASE OF DISCREPANCY.

1. ALL MARKINGS AND STRIPING SHALL BE PER CALTRANS STANDARD PLANS, LATEST EDITION.
2. ALL STRIPING AND LEGENDS SHALL BE THERMOPLASTIC.
3. ENGINEER TO APPROVE CAT-TRACKING PRIOR TO PLACEMENT OF PERMANENT STRIPING AND LEGENDS. CONTRACTOR TO ALLOW MINIMUM 1 WEEK REVIEW BY ENGINEER AFTER PLACEMENT OF CAT-TRACKING.
4. ADD "NO DUMPING--DRAINS TO BAY" STENCIL AT EVERY STORM DRAIN INLET. SEE SPECIFICATIONS.
5. CROSSWALK STRIPING SHALL BE 10' LONG THERMOPLASTIC STRIPES, 12" WIDE SEPARATED BY 24" GAPS (SEE PLANS FOR COLOR).

1. CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL BY THE CITY ENGINEER A COMPLETE CONSTRUCTION STAGING PLAN IMMEDIATELY UPON APPROVAL OF INSURANCE FORMS AND CERTIFICATES. CONSTRUCTION STAGING AREA SHALL BE LOCATED IN AN AREA APPROVED BY THE CITY ENGINEER.
2. NO EQUIPMENT SHALL BE STORED WITHIN CITY RIGHTS-OF-WAY UNLESS APPROVED IN WRITING BY THE CITY ENGINEER.
3. CONSTRUCTION STAGING AREA SHALL BE ADEQUATELY SECURED BY USE OF TEMPORARY FENCING WITH LOCKING GATE(S) AND SCREENED FROM THE PUBLIC RIGHT-OF-WAY TO THE SATISFACTION OF THE CITY ENGINEER. SCREENING SHALL CONSIST OF MATERIALS APPROVED BY THE CITY ENGINEER AND SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.

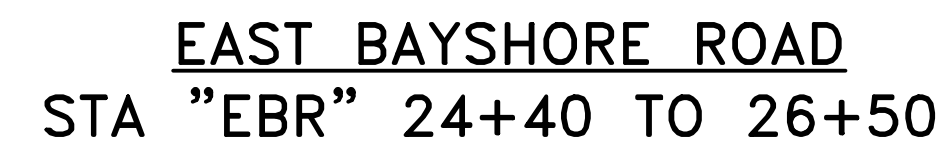
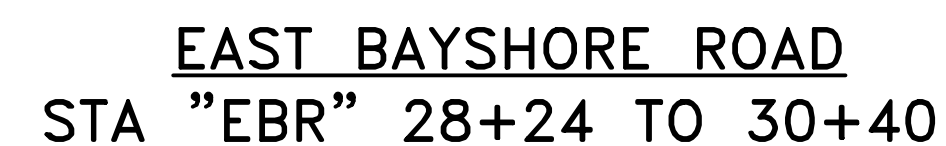
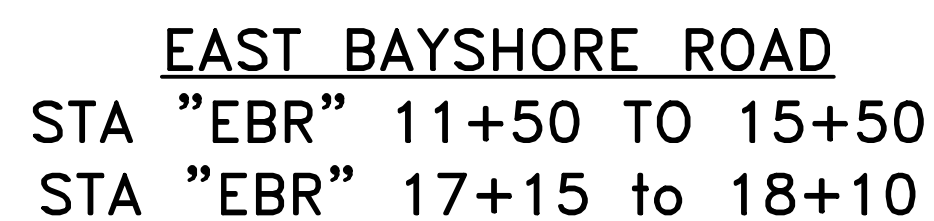
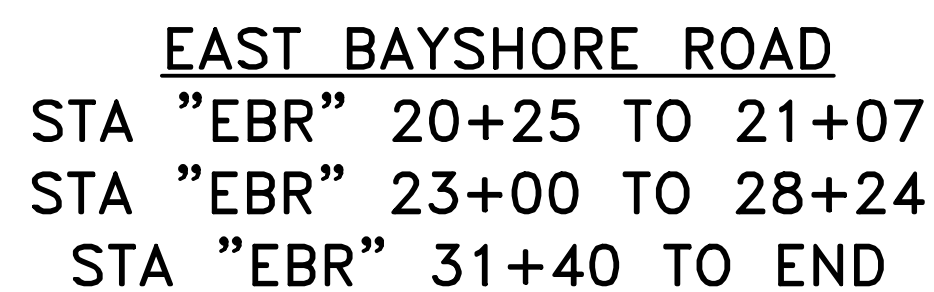
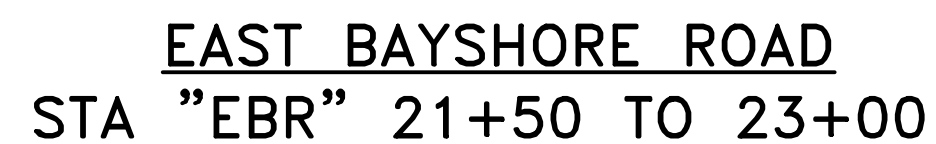
1. CONTRACTOR SHALL COMPLY WITH ALL RULES, REGULATIONS AND PROCEDURES OF THE MUNICIPAL REGIONAL STORMWATER POLLUTION PERMIT (MRP), ALSO KNOWN AS THE NPDES PERMIT. MORE SPECIFICALLY, CONTRACTOR SHALL COMPLY WITH THE SAN MATEO COUNTYWIDE STORMWATER POLLUTION PREVENTION PROGRAM'S BEST MANAGEMENT PRACTICES (BMPs) FOR CONSTRUCTION ACTIVITIES, CONSTRUCTION BMP PLAN SHEET, ATTACHED HERETO AS SHEET NO. 35.
2. CONTRACTOR SHALL SUBMIT FOR CITY REVIEW A WATER POLLUTION CONTROL PLAN, PREPARED IN ACCORDANCE WITH CALTRANS STANDARDS INCLUDING ALL MEASURES TO BE IMPLEMENTED THROUGHOUT THE PROJECT LIMITS AND AT CONTRACTOR'S STAGING LOCATION.
3. ALL WORK TO BE PERFORMED DURING THE DRY WEATHER MONTHS BETWEEN APRIL 30TH & OCTOBER 1ST. WORK TO CONTINUE AFTER OCTOBER 1ST WITH WRITTEN PERMISSION FROM THE CITY WITH ADDITIONAL PROTECTIVE MEASURES ONLY.
4. APPLY CONCRETE, ASPHALT, AND SEAL COAT DURING DRY WEATHER TO PREVENT CONTAMINANTS FROM CONTACTING STORM WATER RUNOFF.
5. COVER STORM DRAIN INLETS AND MANHOLES WHEN PAVING OR APPLYING SEAL COAT, SLURRY SEAL, FOG SEAL, ETC.
6. MAINTAIN ALL VEHICLES AND HEAVY EQUIPMENT. INSPECT FREQUENTLY FOR AND REPAIR LEAKS.
7. CLEAN UP LIQUID SPILLS ON PAVED OR IMPERMEABLE SURFACES USING "DRY" CLEANUP METHODS (E.G., ABSORBENT MATERIALS LIKE CAT LITTER, SAND OR RAGS).
8. FILTER FABRIC OR OTHER MATERIAL FOR SEDIMENT TRAPPING SHALL BE INSTALLED AND MAINTAINED AT STREET GUTTERS AND DRAINS TO KEEP CONSTRUCTION DEBRIS OUT OF THE STORM DRAIN SYSTEM.
9. NO MATERIAL, RESIDUE WASTE OR DEBRIS GENERATED BY CONSTRUCTION ACTIVITIES WILL BE ALLOWED TO BE WASHED INTO ANY DRAINAGE INLETS.
10. AT THE END OF EVERY DAY, ALL MATERIALS TRAPPED BY THE INLET PROTECTION BMP (FILTER FABRIC) AND EXCESS MATERIALS SUCH AS PAVEMENT PIECES OR DEBRIS WILL BE COLLECTED USING DRY SWEEP METHODS AND REMOVED FROM THE PROJECT SITE. NO MATERIALS WILL BE ALLOWED TO BE WASHED INTO THE STORM DRAIN SYSTEM.
11. DURING CONSTRUCTION, STREETS SHALL BE CLEANED AS OFTEN AS REQUIRED TO REMOVE ANY ACCUMULATION OF MUD AND DEBRIS RESULTING FROM THIS CONSTRUCTION.
12. BERM AROUND STORAGE AREAS TO PREVENT CONTACT WITH STORMWATER RUNOFF.
13. STORE STOCKPILED MATERIALS AND WASTES OVER PLASTIC SHEETING OR A TARP, AND UNDER A TEMPORARY ROOF OR SECURED PLASTIC SHEETING OR TARP.
14. ALWAYS PARK PAVING MACHINES OVER DRIP PANS OR ABSORBENT MATERIALS, AS THEY TEND TO DRIP CONTINUOUSLY.
15. CONSTRUCTION SITE SHALL BE KEPT CLEAN AND SHALL BE SWEEPED BY MECHANICAL SWEEPING ON A DAILY BASIS.

1. CONTRACTOR SHALL CONTACT UTILITY COMPANIES, 72 HOURS PRIOR TO THE START OF WORK TO NOTIFY THEM OF CONSTRUCTION, AND TO REQUEST THAT UTILITIES BE MARKED. CONTRACTOR SHALL NOT BEGIN EXCAVATION WORK UNTIL ALL UTILITIES HAVE BEEN MARKED OR THE PRESCRIBED "NO RESPONSE FOLLOW-UP" PROCEDURES HAVE BEEN FOLLOWED.
2. LOCATION OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS WAS COMPILED FROM SURVEYED SURFACE UTILITIES AND UTILITY COMPANIES' FACILITY SCHEMATICS AND IS APPROXIMATE. THE PAINT MARKINGS AND COVERS OF UTILITY INFORMATION SHOWN HEREON IS NOT MEANT TO BE A FULL CATALOG OF EXISTING CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING RECORD INFORMATION AND CONDUCTING FIELD INVESTIGATION TO VERIFY THE LOCATION AND ELEVATIONS OF EXISTING UTILITIES – WHETHER SHOWN ON THESE PLANS OR NOT. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF DISCREPANCIES.
3. ALL UTILITIES WITHIN 5–FT Laterally and crossing the proposed storm drain alignment and proposed bioretention areas shall be potholed. The potholed data (date and time of pothole, precise location of pothole, depth to utility, utility type and size, utility pipe material, depth of asphalt, depth of road base, soil types encountered, and other relevant information) shall be submitted to the city. The submittal shall specifically identify any potential conflicts. Contractor shall not commence construction in that area until a written response is received from the city regarding identified conflicts.
4. Contractor shall be responsible to protect-in-place existing monuments. Destroyed/damaged monuments shall be re-established at contractor's sole expense.
5. The location of surface utilities shown on these plans is approximate only. Attention is directed to the possible existence of underground facilities not known or in a location different from which is marked in the street shown on the plans. It is the contractor's responsibility to verify the location and elevation of all existing utilities within the work area prior to construction. This verification shall be coordinated by the contractor with the appropriate utility company as required.
6. Protect existing irrigation systems within project limits.
7. All existing surface utility facilities such as but not necessarily limited to water valves, gas valves, electrical vaults, manholes, fire hydrants power poles, etc. shall be protected in place and adjusted to grade as necessary. All utilities shown are schematic only and are not complete. Contractor shall field verify and inventory all utility and other features prior to beginning construction.
8. Contractor shall be aware of all overhead lines. All construction equipment shall meet the maximum height requirement.

1. TOPSOIL, ROOTS, VEGETABLE MATTER, TRASH, DEBRIS AND ANY OTHER DELETERIOUS MATERIAL SHALL NOT BE CONSIDERED ACCEPTABLE FILL MATERIAL.
2. ANY ADDITIONAL FILL MATERIAL REQUIRED TO ATTAIN THE DESIGN GRADES SHOWN ON THESE PLANS SHALL BE PER PROJECT SPECIFICATIONS. ALL FILL MATERIAL SHALL BE FIELD TESTED FOR COMPLIANCE WITH THE PROJECT SPECIFICATIONS INCLUDING TOXICITY TESTING.
3. COMPACTION BY FLOODING, PONDING OR JETTING WILL NOT BE PERMITTED.

1. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD BOTH DESIGN PROFESSIONALS AND THE CITY OF EAST PALO ALTO HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF EITHER THE DESIGN PROFESSIONAL OR THE CITY OF EAST PALO ALTO.

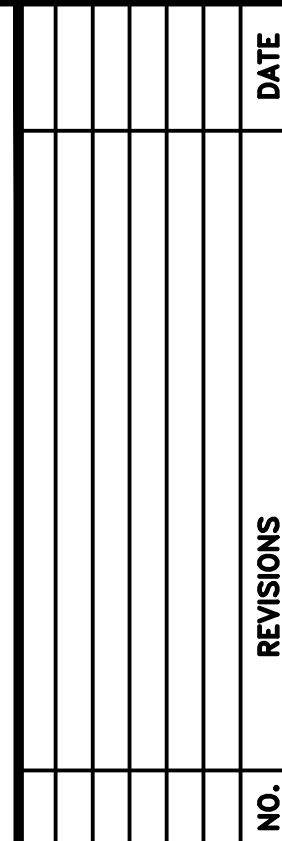
1. EXISTING SIGNS AS SHOWN ON THE SIGNING/STRIPING PLANS SHALL BE SALVAGED AND MAINTAINED IN AN ACCEPTABLE CONDITION FOR RE-INSTALLATION BY THE CONTRACTOR.
2. DEMOLITION INCLUDES REMOVAL OF RAISED PAVEMENT MARKERS AND GRINDING OF THERMOPLASTIC PAVEMENT LEGENDS WHERE IN CONFLICT WITH PROPOSED STRIPING.
3. THE CITY CANNOT WARRANT THAT THE EXISTING ASPHALT CONCRETE DEPTH IS COMPLETELY UNIFORM THROUGHOUT. DIGOUT SHALL MEAN REMOVE ALL EXISTING ASPHALT CONCRETE DOWN TO BASE MATERIAL, AND MAY BE MORE OR LESS THAN WHAT IS SHOWN ON THESE PLANS.



 FULL DEPTH AC PAVEMENT
 AC DIGOUT
 EXISTING AC
 SLURRY SEAL

- 1 BASE FAILURE REPAIR (AC DIGOUT) WHERE SHOWN ON PLAN.
- 2 SLURRY SEAL. CRACK SEAL REQUIRED PRIOR TO SURFACE TREATMENT.
- 3 THE GAP BETWEEN THE PROPOSED BW AND ROW VARIES FROM 0' TO 1'
- 4 6" HMA
EXIST CLASS 2 AB

1. EXISTING PAVEMENT STRUCTURE IS PRESUMED TO BE 4" TO 6" HMA OVER EXIST CLASS 2 AB.
2. DURING GRINDING OPERATION, THE FULL DEPTH OF THE AC PAVEMENT SHALL BE REMOVED AND THE UNDERLYING AB SHALL BE REPLACED AND COMPACTED (95% RELATIVE COMPACTION) IN KIND, CONTRACTOR SHALL ENSURE THAT A 6" HMA IS ACHIEVED.



DESIGNED BY:
HA/JG/RG

DRAWN BY:
HA/JG/RG

CSG CONSULTANTS
550 PILGRIM DRIVE
FOSTER CITY, CA 94404
PHONE (650)522-2500
FAX (650)522-2599



PREPARED BY:

TYPICAL CROSS SECTIONS
EAST BAYSHORE ROAD
PEDESTRIAN AND CYCLIST SAFETY
IMPROVEMENTS PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

TITLE:

SHEET 3
OF
35

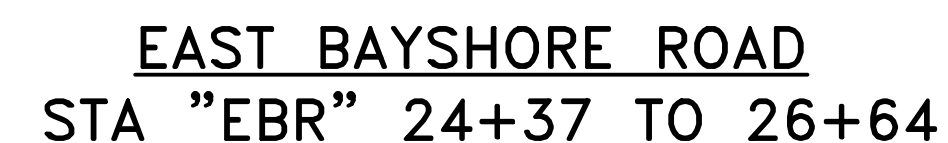
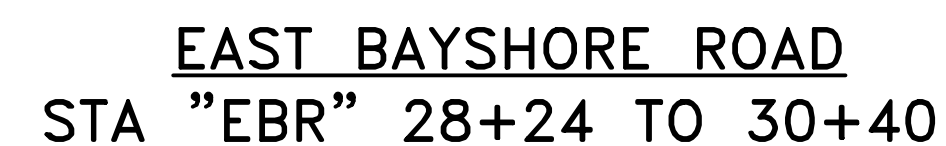
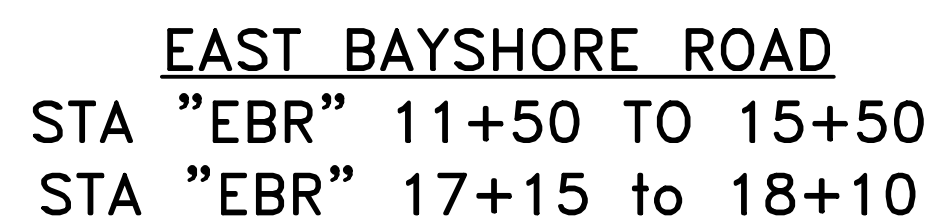
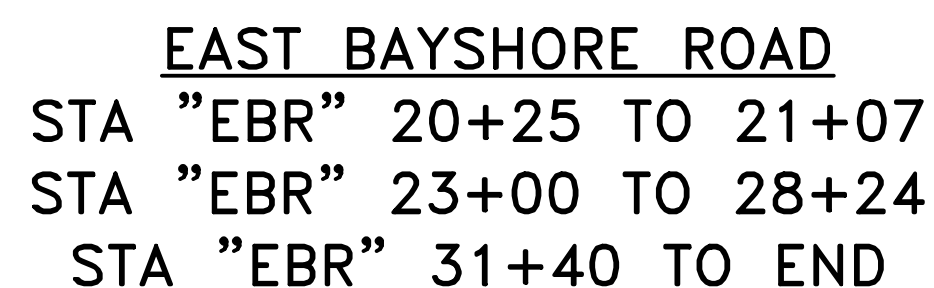
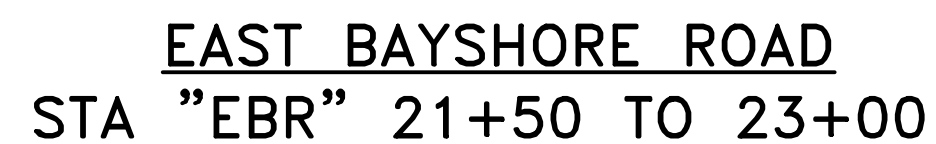
DATE: 11/22/2024
JOB NO.:
CIP ST-28



Know what's below.
Call before you dig.

Plotted on: 02/24/25 @ 02:01:29 PM

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



 FULL DEPTH AC PAVEMENT
 AC DIGOUT
 EXISTING AC
 SLURRY SEAL

- 1 BASE FAILURE REPAIR (AC DIGOUT) WHERE SHOWN ON PLAN.
- 2 SLURRY SEAL. CRACK SEAL REQUIRED PRIOR TO SURFACE TREATMENT.
- 3 THE GAP BETWEEN THE PROPOSED BW AND ROW VARIES FROM 0' TO 1'
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DESIGNED BY: HA/JG/RG
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PREPARED BY:

TYPICAL CROSS SECTIONS
EAST BAYSHORE ROAD
PEDESTRIAN AND CYCLIST SAFETY
IMPROVEMENTS PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

TITLE:

SHEET 3
OF
35

DATE: 11/22/2024
JOB NO.:

CIP ST-28



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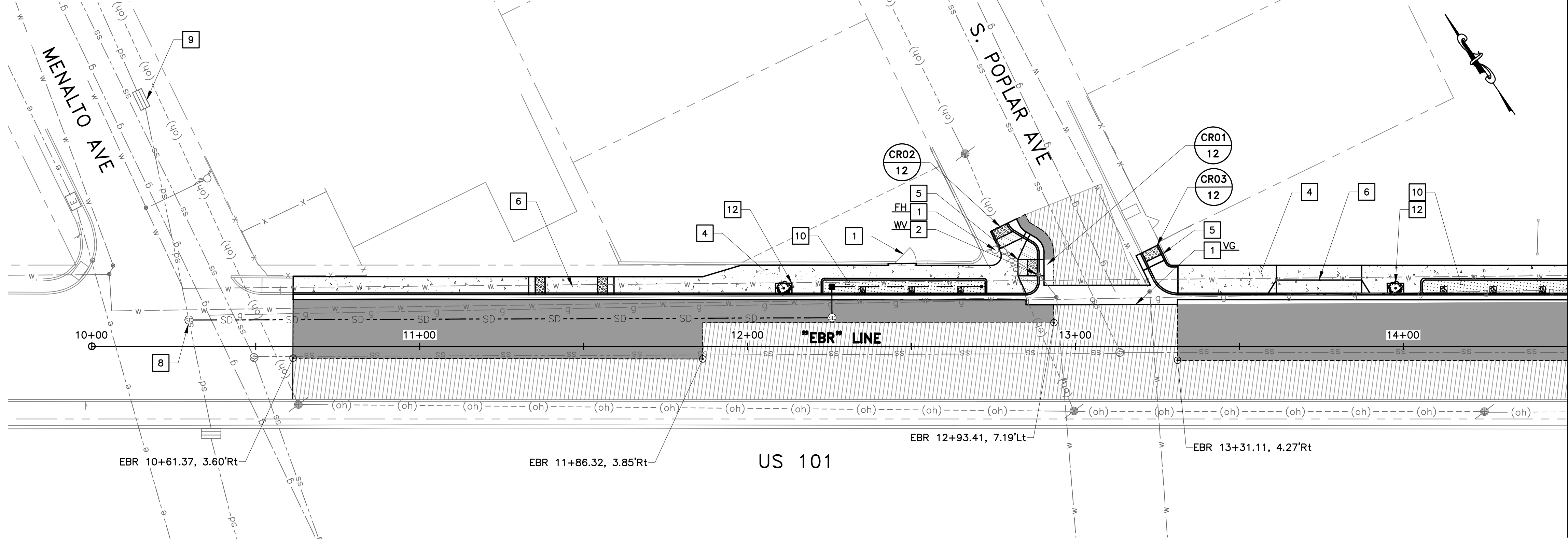
Know what's below.
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Plotted on: 02/24/25 @ 04:48:56 PM

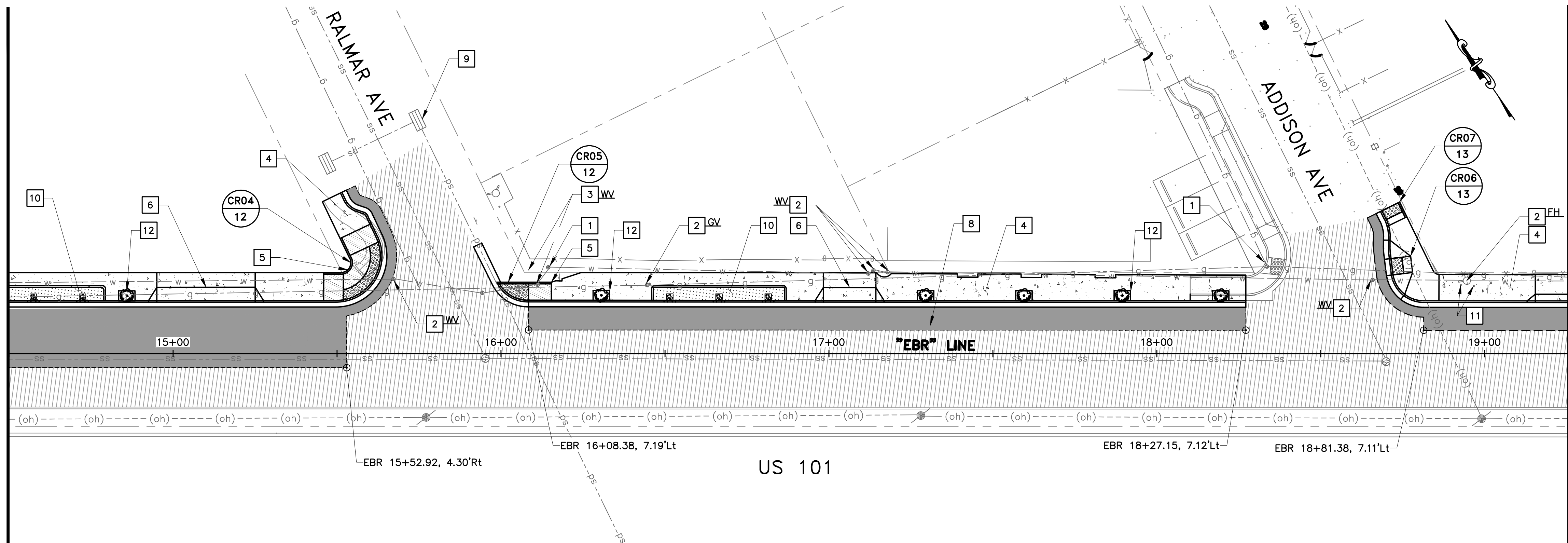
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

\\SERVER2\Clients\DESIGN\24.499-1 EPA E Bayshore Pedestrian & Bicycle Improvements\PLANS-499-1\05-07 IMPROVEMENT PLANS-499-1.dwg 04:53:39 PM

MATCH LINE - SEE ABOVE



PLAN
EAST BAYSHORE ROAD
SCALE 1" = 20'



PLAN
EAST BAYSHORE ROAD
SCALE 1" = 20'

MATCH LINE - SEE BELOW

MATCH LINE - SEE SHEET 06

LEGEND

	CONCRETE CURB & GUTTER
	CONCRETE SIDEWALK
	CONCRETE CURB RAMP
	DETECTABLE WARNING SURFACE
	RETAINING CURB
	FULL DEPTH PAVEMENT CONSTRUCTION
	SLURRY SEAL
	BASE FAILURE REPAIR (DIGOIT)
	GREEN INFRASTRUCTURE
	CITY RIGHT OF WAY
	SAWCUT/CONFORM LIMIT
	TREE & TREE WELL PER DETAIL 8, SHEET 34.

SYMBOL ITEM DESCRIPTION

	CITY MONUMENT
	EXISTING DRAIN INLET
	CLEANOUT, SEWER, STORM DRAIN AND TELEPHONE MANHOLE
	WATER VALVE
	WATER METER PULL BOX
	PG&E GAS VALVE
	FIRE HYDRANT
	OVERHEAD (OH) ELECTRIC WOOD POLE

PROJECT NOTES:

1. PROTECT IN PLACE.
2. ADJUST TO GRADE.
3. RELOCATE EXISTING.
4. CONSTRUCT SIDEWALK, CURB AND GUTTER PER COUNTY STD DETAIL D-3. SEE SIDEWALK GRADING PLANS SHEETS 8-11.
5. CONSTRUCT CURB RAMP PER CALTRANS STD PLAN A88A AND A88B. INSTALL CURB RAMP TRUNCATED DOME PER CALTRANS STD PLAN A88A. ALL CURB RAMP SHALL HAVE A MINIMUM OF 4" PCC OVER 4" CLASS 2 AB AND A MINIMUM OF 18" WIDE BY 12" DEEP AC DEEPLIFT PLUG. SEE CURB RAMP GRADING PLANS SHEETS 12-15.
6. CONSTRUCT DRIVEWAY PER COUNTY STD DETAILS D-1 & D-2.
7. CONSTRUCT DEPRESSED DRIVEWAY. SEE DETAIL 1 ON SHEET 33.
8. INSTALL NEW STORM DRAIN LINE - SEE DRAINAGE SHEETS 16-19 AND DRAINAGE PROFILE SHEETS 20-22.
9. INSTALL TEMPORARY DRAIN INLET PROTECTION PER CALTRANS STANDARD PLAN T62.
10. INSTALL BIORETENTION - SEE BIORETENTION AREA SHEETS 23-25.
11. REMOVE EXISTING BOLLARD.
12. INSTALL TREE AND TREE WELL. SEE DETAILS 9 & 10, ON SHEET 34.

CONSTRUCTION NOTES:

1. ALL CURB RAMP SHALL COMPLY WITH THE MAXIMUM SLOPES, MINIMUM DIMENSIONS, DETECTABLE WARNING SURFACE, AND OTHER MISCELLANEOUS REQUIREMENTS PER CITY STANDARD AND AS SHOWN ON CALTRANS STANDARD PLAN A88A AND A88B.
2. SIDEWALK DETAIL SHALL COMPLY WITH COUNTY OF SAN MATEO STANDARD.
3. THE 18" WIDE BAND AC PLUG IS CONSIDERED PART OF THE NEW CURB RAMP, OR CURB AND GUTTER PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
4. CONFORM TO EXISTING SIDEWALK AND CURB & GUTTER AT NEAREST SCORELINE/CONSTRUCTION JOINT.
5. SCORE LINE PATTERNS ON NEW SIDEWALK SHALL MATCH EXISTING ON ADJACENT SIDEWALK.
6. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
7. MAINTAIN EXISTING CURB RETURN RADIUS AND FLOW LINE ALIGNMENT, UNLESS NOTED OTHERWISE.
8. CONTRACTOR TO COORDINATE WITH IMPACTED UTILITY FACILITY COMPANIES PRIOR TO THE START OF CONSTRUCTION.
9. EXISTING LANDSCAPE OR LAWN, IRRIGATION SYSTEM SHALL BE ADJUSTED ACCORDINGLY TO FIT NEW CURB RAMP. CONTRACTOR TO RESTORE DISTURBED LANDSCAPING.
10. ALL MANHOLES, VALVES AND PULL BOXES WITHIN THE LIMIT OF CONCRETE OR ASPHALT IMPROVEMENT SHALL BE ADJUSTED TO FINAL GRADE.
11. ALL IMPROVEMENT SHALL BE WITHIN CITY RIGHT OF WAY, UNLESS OTHERWISE NOTED.



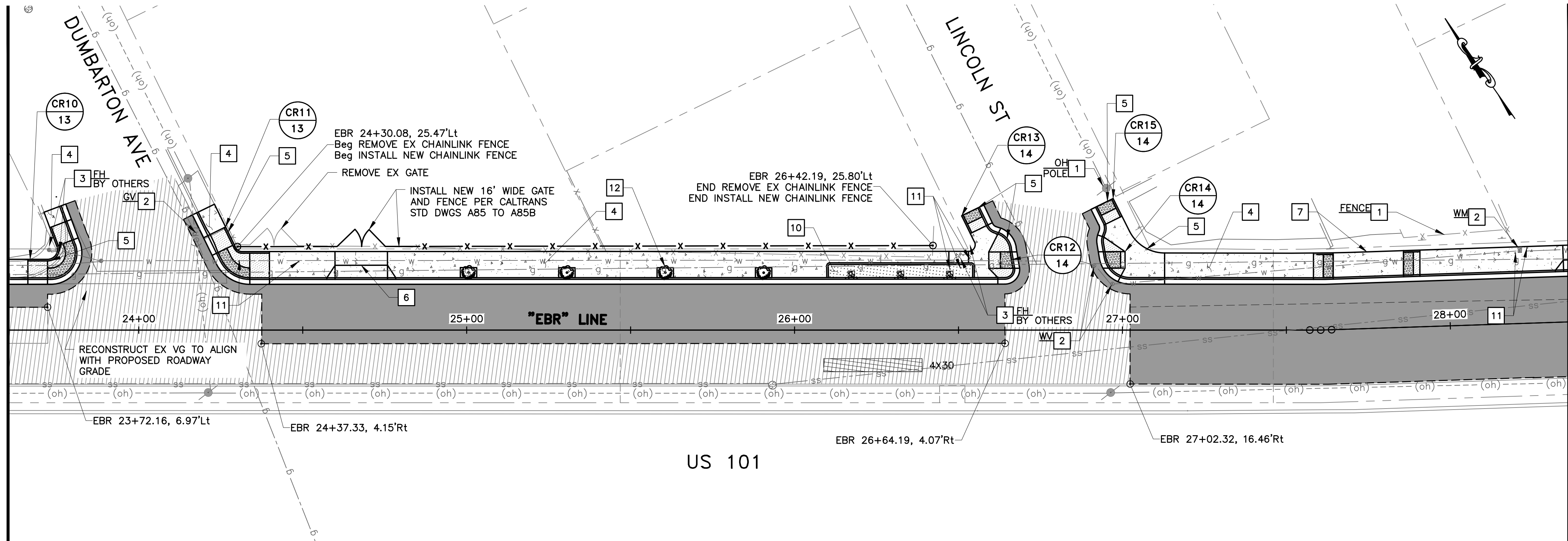
Know what's below.
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FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

Plotted on: 02/24/25 04:53:39 PM

DESIGNED BY: HA/16/RG	REVISIONS	DATE
DRAWN BY: HA/16/RG		
CSG CONSULTANTS		
550 PILGRIM DRIVE FOSTER CITY, CA 94404 PHONE (650)522-2500 FAX (650)522-2599		
IMPROVEMENT PLAN EAST BAYSHORE ROAD PEDESTRIAN AND CYCLIST SAFETY IMPROVEMENTS PROJECT CITY OF EAST PALO ALTO, CALIFORNIA		
SHEET 5 OF 35		
DATE: 11/22/2024 JOB NO.: CIP ST-28		



<u>SYMBOL</u>	<u>ITEM DESCRIPTION</u>
	CITY MONUMENT
	EXISTING DRAIN INLET
	CLEANOUT, SEWER, STORM DRAIN AND TELEPHONE MANHOLE
	WATER VALVE
	WATER METER PULL BOX
	PG&E GAS VALVE
	FIRE HYDRANT
	OVERHEAD (OH) ELECTRIC WOOD POLE

- # PROJECT NOTES:
- 1 PROTECT IN PLACE.
 - 2 ADJUST TO GRADE.
 - 3 RELOCATE EXISTING.
 - 4 CONSTRUCT SIDEWALK, CURB AND GUTTER PER COUNTY STD DETAIL D-3. SEE SIDEWALK GRADING PLANS SHEETS 8-11.
 - 5 CONSTRUCT CURB RAMP PER CALTRANS STD PLAN A88A AND A88B. INSTALL CURB RAMP TRUNCATED DOME PER CALTRANS STD PLAN A88A. ALL CURB RAMPS SHALL HAVE A MINIMUM OF 4" PCC OVER 4" CLASS 2 AB AND A MINIMUM OF 18" WIDE 12" DEEP AC DEEPLIFT PLUG. SEE CURB RAMP GRADING PLAN SHEETS 12-15.
 - 6 CONSTRUCT DRIVEWAY PER COUNTY STD DETAILS D-1 & D-2
 - 7 CONSTRUCT DEPRESSED DRIVEWAY. SEE DETAIL 1 ON SHEET
 - 8 INSTALL NEW STORM DRAIN LINE - SEE DRAINAGE SHEETS 16-19 AND DRAINAGE PROFILE SHEETS 20-22.
 - 9 INSTALL TEMPORARY DRAIN INLET PROTECTION PER CALTRANS STANDARD PLAN T62.
 - 10 INSTALL BIORETENTION - SEE BIORETENTION AREA SHEETS 23-25.
 - 11 REMOVE EXISTING BOLLARD.
 - 12 INSTALL TREE AND TREE WELL. SEE DETAILS 9 & 10, ON SH 34.

- ## **CONSTRUCTION NOTES:**
1. ALL CURB RAMPS SHALL COMPLY WITH THE MAXIMUM SLOPES, MINIMUM DIMENSIONS, DETECTABLE WARNING SURFACE, AND OTHER MISCELLANEOUS REQUIREMENTS PER CITY STANDARD AND AS SHOWN ON CALTRANS STANDARD PLAN A88A AND A88B.
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 10. ALL MANHOLES, VALVES AND PULL BOXES WITHIN THE LIMIT OF CONCRETE OR ASPHALT IMPROVEMENT SHALL BE ADJUSTED TO FINAL GRADE.
 11. ALL IMPROVEMENT SHALL BE WITHIN CITY RIGHT OF WAY, UNLESS OTHERWISE NOTED.

	DATE: 11/22/2024 JOB NO.: CIP ST-28	TITLE: IMPROVEMENT PLAN EAST BAYSHORE ROAD PEDESTRIAN AND CYCLIST SAFETY IMPROVEMENTS PROJECT CITY OF EAST PALO ALTO, CALIFORNIA	PREPARED BY:  CSG CONSULTANTS 550 PILGRIM DRIVE FOSTER CITY, CA 94404 PHONE (650)522-2500 FAX (650)522-2399	DESIGNED BY: HA/JG/RG DRAWN BY: HA/JG/RG	NO. _____ REVISIONS _____ DATE _____

Plotted on: 02/24/25 @ 05:20:16 PM



1. ALL CURB RAMPS SHALL COMPLY WITH THE MAXIMUM SLOPES, MINIMUM DIMENSIONS, DETECTABLE WARNING SURFACE, AND OTHER MISCELLANEOUS REQUIREMENTS PER CITY STANDARD AND AS SHOWN ON CALTRANS STANDARD PLAN A88A AND A88B.
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11. ALL IMPROVEMENT SHALL BE WITHIN CITY RIGHT OF WAY, UNLESS OTHERWISE NOTED.

[illegible]

\\SERVER\clients\DESIGN\24-499-1 EPA E Bayshore Pedestrian & Bicycle Improvements\PLANS-499-1\08-11 GRADING PLANS (SW)-499-1.dwg 06:17:01 PM



Know what's below.
Call before you dig.

Plotted on: 02/18/25 @ 06:17:01 PM

EAST BAYSHORE ROAD SIDEWALK GRADING

SCALE: 1"=10'

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

GRAPHIC SCALE

10 0 10 20

MATCH LINE - SEE ABOVE

MATCH LINE - SEE ABOVE

MATCH LINE - SEE BELOW

MATCH LINE - SEE BELOW

MATCH LINE - SEE SHEET 09

LEGEND

- CONCRETE CURB & GUTTER
- CONCRETE SIDEWALK
- CONCRETE CURB RAMP
- DETECTABLE WARNING SURFACE
- RETAINING CURB
- RIGHT OF WAY
- SAWCUT/ LIMIT
- (TC 100.65±)
(FL 100.15±) EXISTING ELEVATION,
- TC 100.65
FL 100.15 PROPOSED ELEVATION
- (0.3%±) EXISTING SLOPE
- 1.5% PROPOSED SLOPE
- FLOW LINE
- TREE & TREE WELL PER DETAIL 8, SHEET 34

CONSTRUCTION NOTES:

- ALL CURB RAMPS SHALL COMPLY WITH THE MAXIMUM SLOPES, MINIMUM DIMENSIONS, DETECTABLE WARNING SURFACE, AND OTHER MISCELLANEOUS REQUIREMENTS PER CITY STANDARD AND AS SHOWN ON CALTRANS STANDARD PLAN A88A AND A88B.
- SIDEWALK SHALL COMPLY WITH SMC STANDARD DETAILS.
- THE 3' WIDE BAND AC PLUG IS CONSIDERED PART OF THE NEW CURB RAMP, OR CURB AND GUTTER PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
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- ALL IMPROVEMENTS SHALL BE WITHIN CITY RIGHT OF WAY, UNLESS OTHERWISE NOTED.
- DURING GRINDING OPERATION, THE FULL DEPTH OF THE AC PAVEMENT SHALL BE REMOVED AND THE UNDERLYING AB SHALL BE REPLACED AND COMPACTED (95% RELATIVE COMPACTION) IN KIND, CONTRACTOR SHALL ENSURE THAT A 6" HMA IS ACHIEVED.
- TREE & TREE WELL SHALL BE INSTALLED PER DETAILS 9 & 10, SEE SHEET 34.
- FOR DRAINAGE DESIGN, REFER TO DRAINAGE PLANS ON SHEETS 16 - 19
- WHEN CONSTRUCTING THE NEW SIDEWALK, THE CONTRACTOR SHALL ENSURE THAT THE BACK OF WALK TRANSITIONS SMOOTHLY WITH THE EXISTING ASPHALT/CONCRETE, LEAVING NO GAPS BETWEEN THE NEW CONSTRUCTION AND THE EXISTING SURFACE.

DESIGNED BY:
HA/16/RG
DRAWN BY:
HA/16/RG

PREPARED BY:
CSG CONSULTANTS
550 PILGRIM DRIVE
FOSTER CITY, CA 94404
PHONE (650)522-2500
FAX (650)522-2599

TITLE:
SIDEWALK GRADING PLAN
EAST BAYSHORE ROAD
PEDESTRIAN AND CYCLIST SAFETY
IMPROVEMENTS PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 8
OF
35

DATE: 11/22/2024
JOB NO.:
CIP ST-28



REVISIONS

NO.

DATE

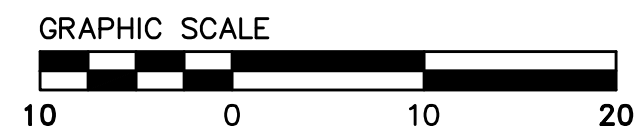


Plotted on: 02/18/25 @ 06:17:44 PM



SCALE: 1"=10'

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

[illegible]

DESIGNED BY:
HA/JG/RG

DRAWN BY:
HA/JG/RG

CSG CONSULTANTS
550 PILGRIM DRIVE
FOSTER CITY, CA 94404
PHONE (650)522-2500
FAX (650)522-2599

TITLE: SIDEWALK GRADING PLAN
EAST BAYSHORE ROAD
PEDESTRIAN AND CYCLIST SAFETY
IMPROVEMENTS PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 9
OF
35

DATE: 11/22/2024
JOB NO.:

CIP ST-28



\\SERVERA\Clients\DESIGN\24-499-1 EPA E Bayshore Pedestrian & Bicycle Improvements\PLANS-499-1\08-11 GRADING PLANS (SW)-499-1.dwg 06:19:12 PM



Know what's below.
Call before you dig.

Plotted on: 02/18/25 06:19:12 PM

MATCH LINE - SEE SHEET 09

MATCH LINE - SEE ABOVE

MATCH LINE - SEE BELOW

MATCH LINE - SEE BELOW

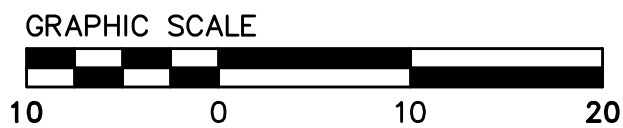
MATCH LINE - SEE SHEET 11

LEGEND

- CONCRETE CURB & GUTTER
- CONCRETE SIDEWALK
- CONCRETE CURB RAMP
- DETECTABLE WARNING SURFACE
- RETAINING CURB
- RIGHT OF WAY
- SAWCUT/ LIMIT
- (TC 100.65±)
(FL 100.15±) EXISTING ELEVATION,
- TC 100.65
FL 100.15 PROPOSED ELEVATION
- (0.3%±) EXISTING SLOPE
- 1.5% PROPOSED SLOPE
- FLOW LINE
- TREE & TREE WELL PER DETAIL 8, SHEET 34

CONSTRUCTION NOTES:

- ALL CURB RAMPS SHALL COMPLY WITH THE MAXIMUM SLOPES, MINIMUM DIMENSIONS, DETECTABLE WARNING SURFACE, AND OTHER MISCELLANEOUS REQUIREMENTS PER CITY STANDARD AND AS SHOWN ON CALTRANS STANDARD PLAN A88A AND A88B.
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- FOR DRAINAGE DESIGN, REFER TO DRAINAGE PLANS ON SHEETS 16 - 19
- WHEN CONSTRUCTING THE NEW SIDEWALK, THE CONTRACTOR SHALL ENSURE THAT THE BACK OF WALK TRANSITIONS SMOOTHLY WITH THE EXISTING ASPHALT/CONCRETE, LEAVING NO GAPS BETWEEN THE NEW CONSTRUCTION AND THE EXISTING SURFACE.



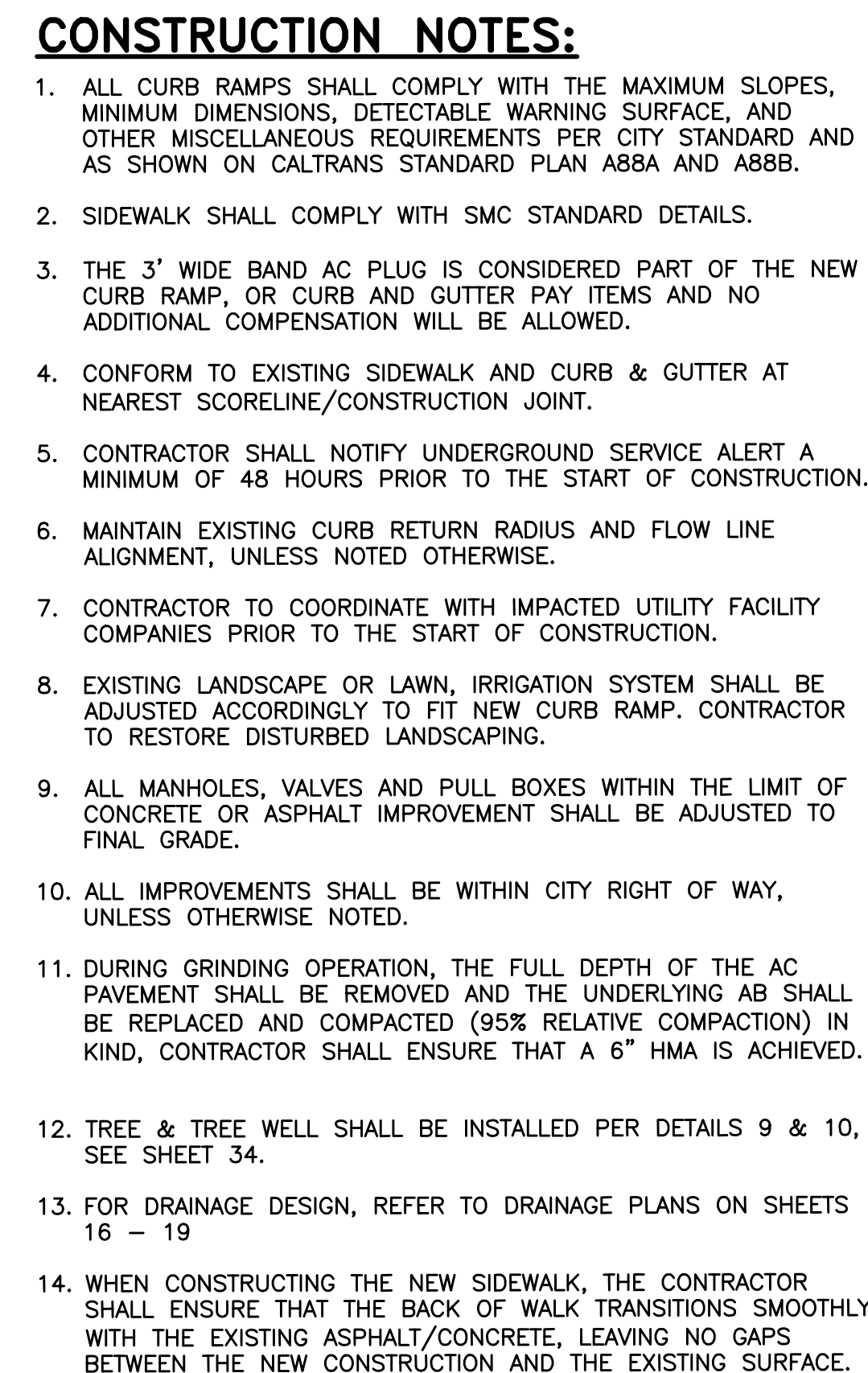
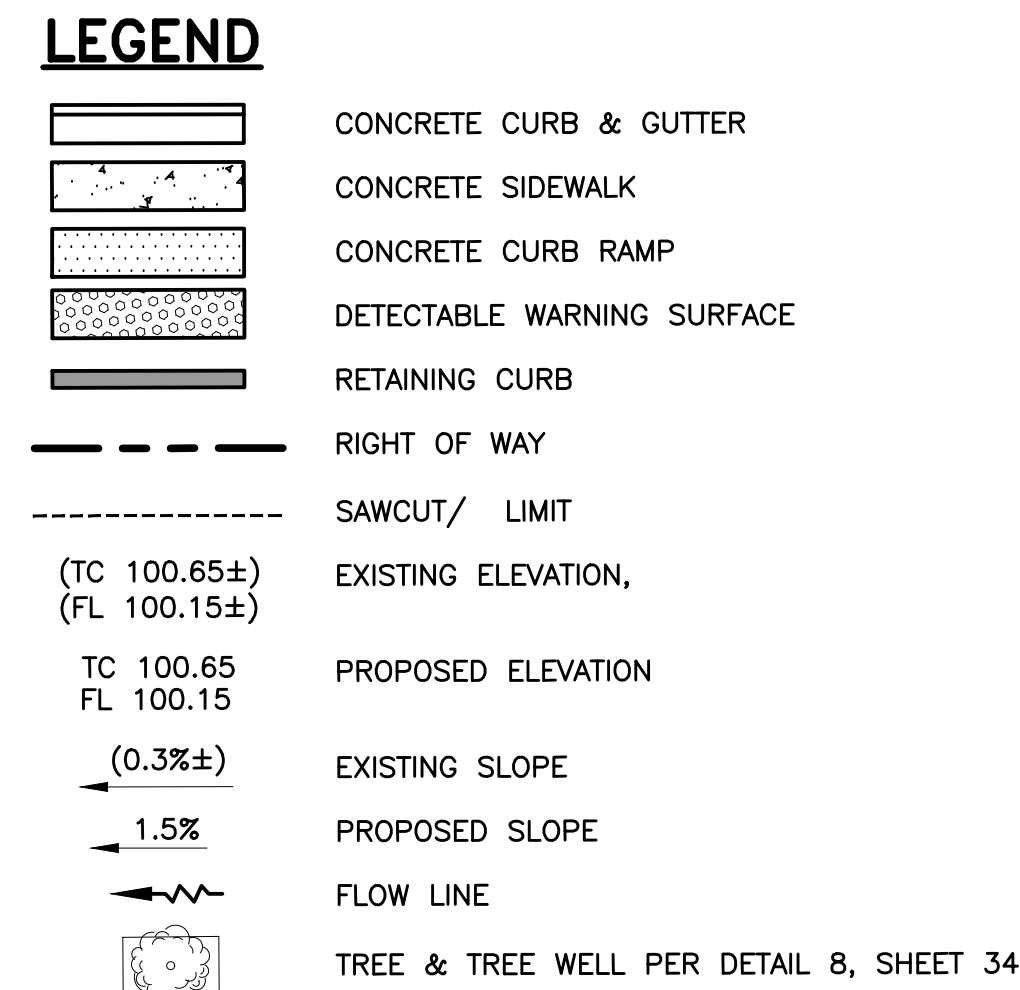
EAST BAYSHORE ROAD SIDEWALK GRADING

SCALE: 1"=10'

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

DESIGNED BY: HA/16/RG	REVISIONS	DATE
DRAWN BY: HA/16/RG		
CSG CONSULTANTS		
550 PILGRIM DRIVE FOSTER CITY, CA 94404 PHONE (650)522-2500 FAX (650)522-2599		
PREPARED BY:		
TITLE: SIDEWALK GRADING PLAN EAST BAYSHORE ROAD PEDESTRIAN AND CYCLIST SAFETY IMPROVEMENTS PROJECT CITY OF EAST PALO ALTO, CALIFORNIA		
SHEET 10 OF 35		
DATE: 11/22/2024 JOB NO.: CP ST-28		





SCALE: 1"=10'



\\SERVER\clients\DESIGN\24-499-1\12-15 GRADING PLANS (CR)-499-1.dwg 05/22/03 PM



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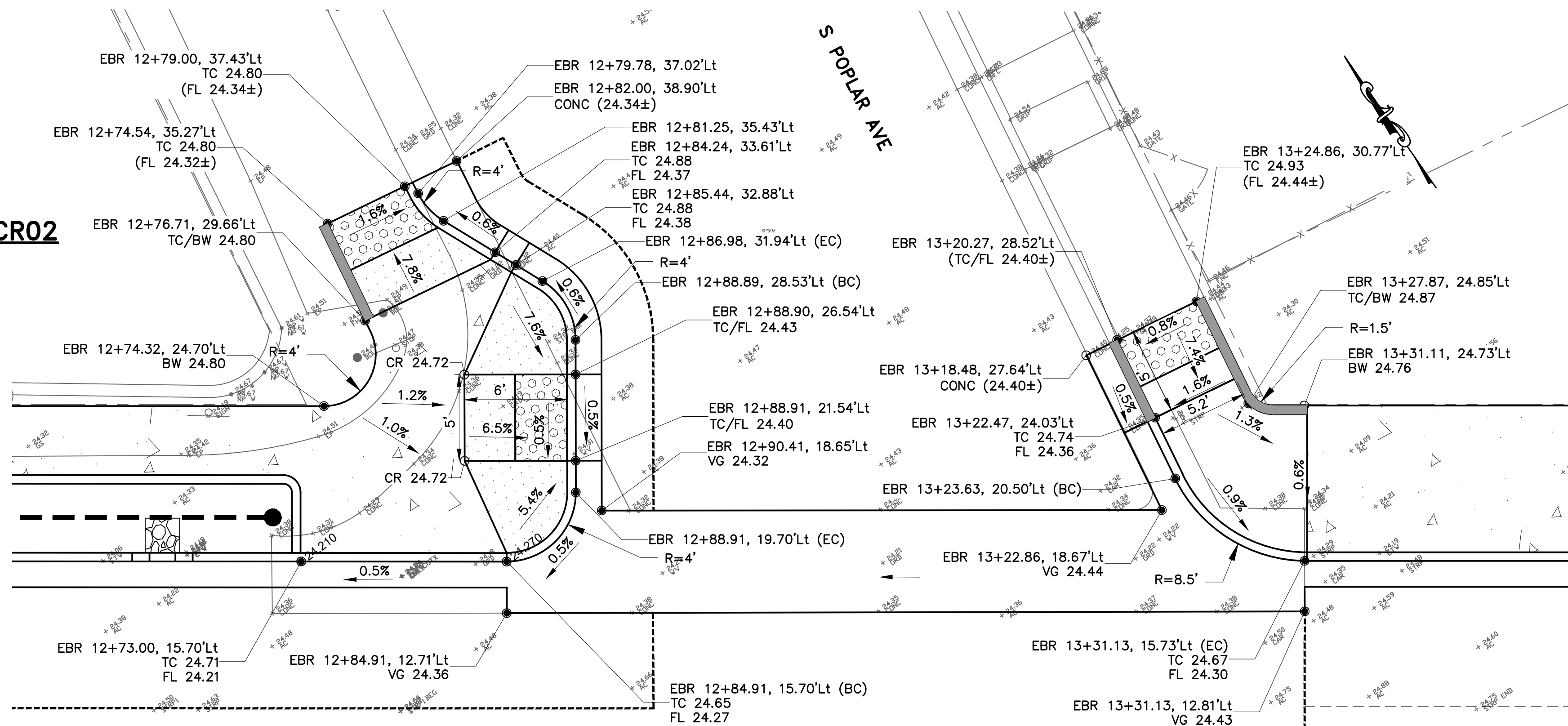
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FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

0 1 2 3

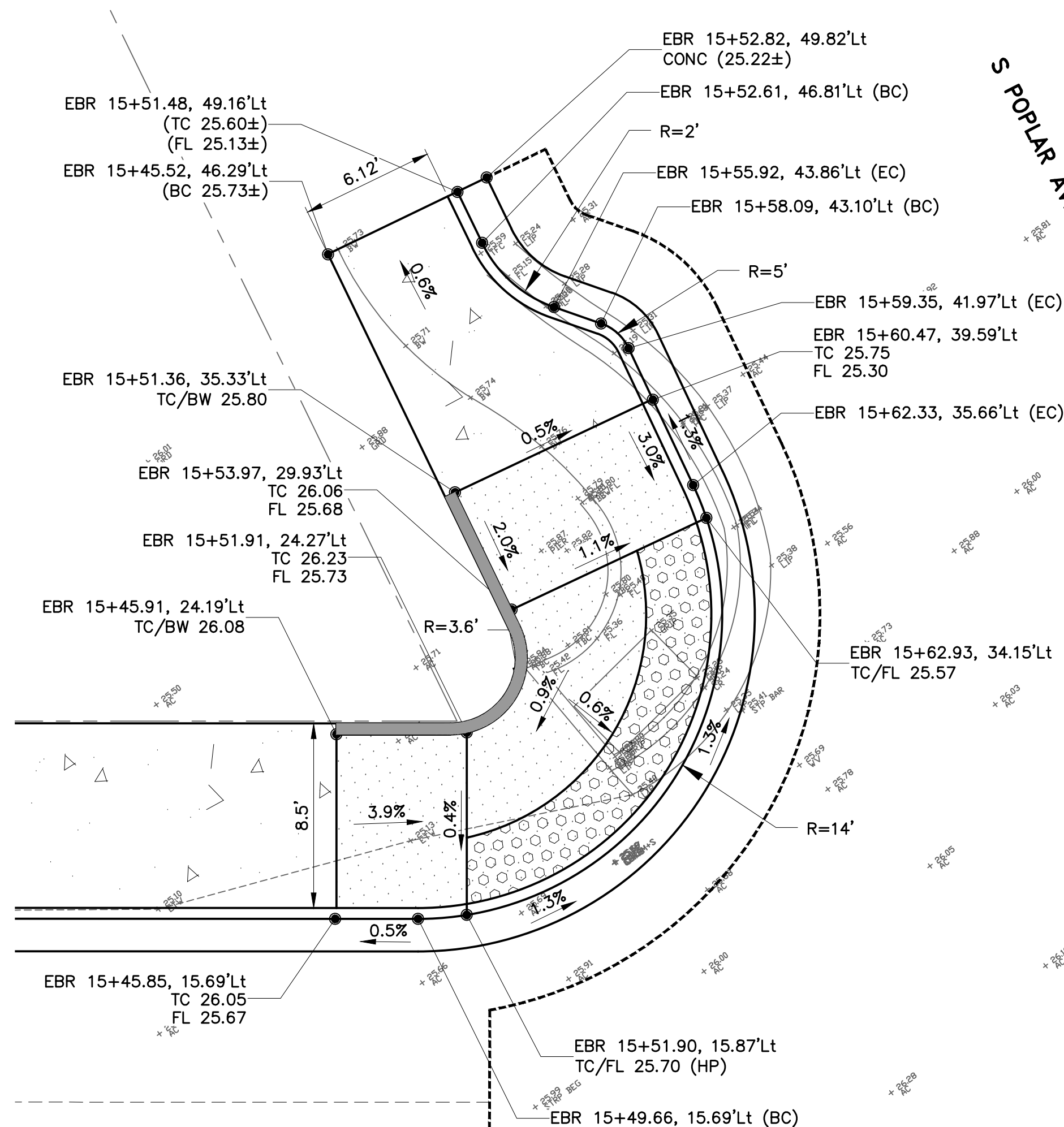
CURB RAMP CR02

SCALE: 1"=5'



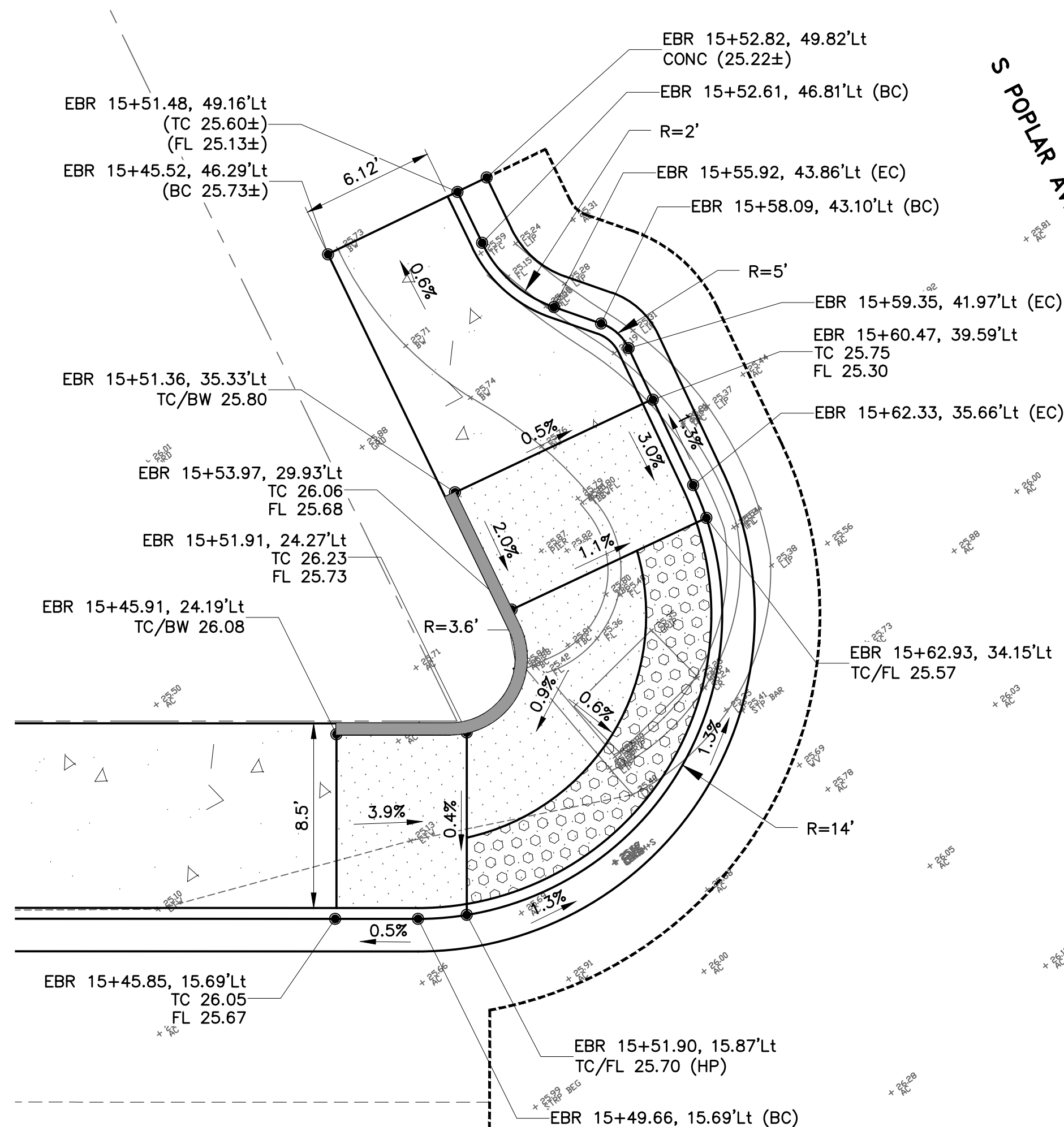
CURB RAMP CR01

SCALE: 1"=5'

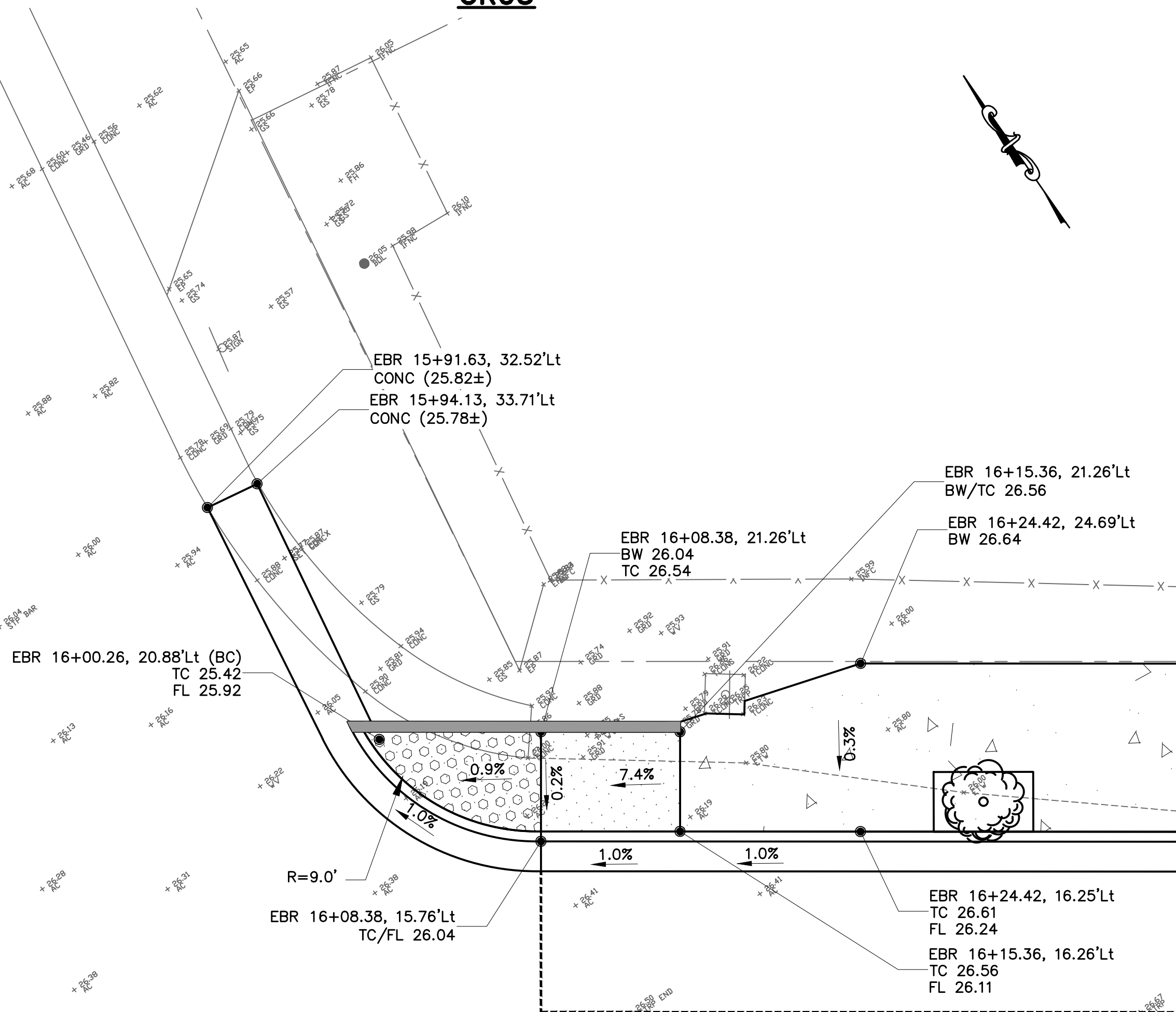


CURB RAMP CR04

SCALE: 1"=5'

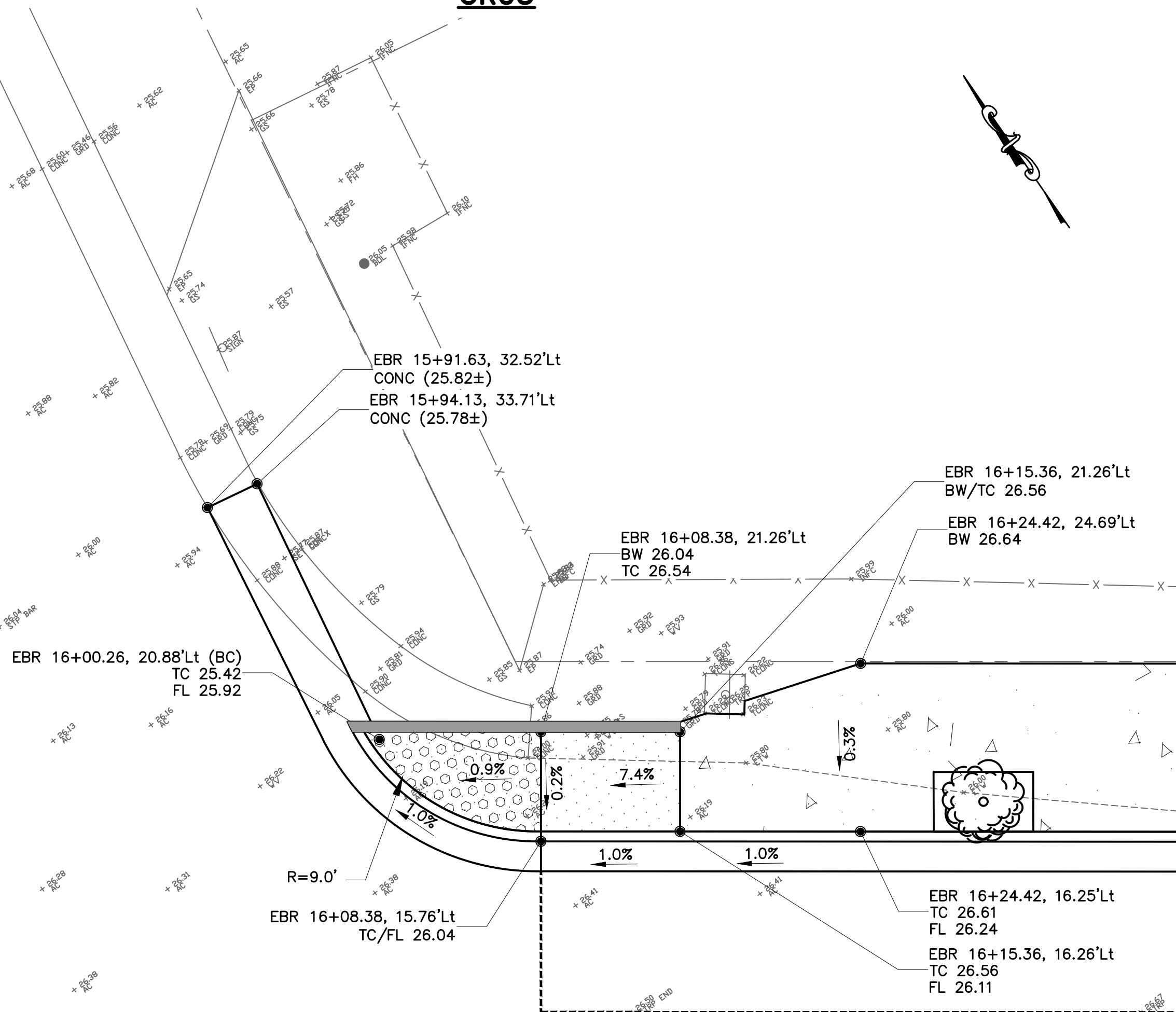


CURB RAMP CR03

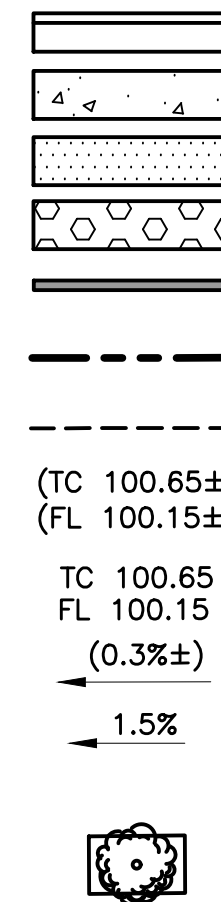


CURB RAMP CR05

SCALE: 1"=5'



LEGEND:



CURB & GUTTER
SIDEWALK
CURB RAMP
DETECTABLE WARNING SURFACE
6" RETAINING CURB
CITY RIGHT OF WAY
SAWCUT LINE AND CONFORM
EXISTING ELEVATION, CONFORM
PROPOSED ELEVATION
EXISTING SLOPE
PROPOSED SLOPE

CONSTRUCTION NOTES:

1. ALL CURB RAMPS SHALL COMPLY WITH THE MAXIMUM SLOPES, MINIMUM DIMENSIONS, DETECTABLE WARNING SURFACE, AND OTHER MISCELLANEOUS REQUIREMENTS PER CITY STANDARD AND AS SHOWN ON CALTRANS STANDARD PLAN A88A AND A88B.
2. SIDEWALK DETAIL SHALL COMPLY WITH COUNTY STANDARD.
3. THE 36 INCH WIDE BAND AC PLUG IS CONSIDERED PART OF THE NEW CURB RAMP, OR CURB AND GUTTER PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
4. CONFORM TO EXISTING SIDEWALK AND CURB & GUTTER AT NEAREST SCORELINE/CONSTRUCTION JOINT.
5. SCORE LINE PATTERNS ON NEW SIDEWALK SHALL MATCH EXISTING ON ADJACENT SIDEWALK.
7. FOR ALL SIGNAGE RELATED WORK SUCH AS RELOCATING, RESETTling, NEW INSTALLATION ETC., SEE SIGNING AND STRIPING PLANS.
8. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT PRIOR TO THE START OF CONSTRUCTION.
9. MAINTAIN EXISTING CURB RETURN RADIUS AND FLOW LINE ALIGNMENT, UNLESS NOTED OTHERWISE.
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12. ALL IMPROVEMENT SHALL BE WITHIN CITY RIGHT OF WAY, UNLESS OTHERWISE NOTED.
13. WHEN CONSTRUCTING THE NEW SIDEWALK, THE CONTRACTOR SHALL ENSURE THAT THE BACK OF WALK TRANSITIONS SMOOTHLY WITH THE EXISTING ASPHALT/CONCRETE, LEAVING NO GAPS BETWEEN THE NEW CONSTRUCTION AND THE EXISTING SURFACE.



DESIGNED BY:		DRAWN BY:		NO.		REVISIONS		DATE	
HA/16/RG		HA/16/RG							
CSG CONSULTANTS		CSG CONSULTANTS							
550 PILGRIM DRIVE		550 PILGRIM DRIVE							
FOSTER CITY, CA 94404		FOSTER CITY, CA 94404							
PHONE (650)522-2500		PHONE (650)522-2500							
FAX (650)522-2599		FAX (650)522-2599							

PREPARED BY: CSG CONSULTANTS

TITLE: CURB RAMP GRADING PLAN

EAST BAYSHORE ROAD

PEDESTRIAN AND CYCLIST SAFETY

IMPROVEMENTS PROJECT

CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 12 OF 35

DATE: 11/22/2024

JOB NO.: CIP ST-28

\\SERVER2\Clients\DESIGN\24-499-1\12-15 GRADING PLANS (CR)-499-1.dwg 04:40:18 PM

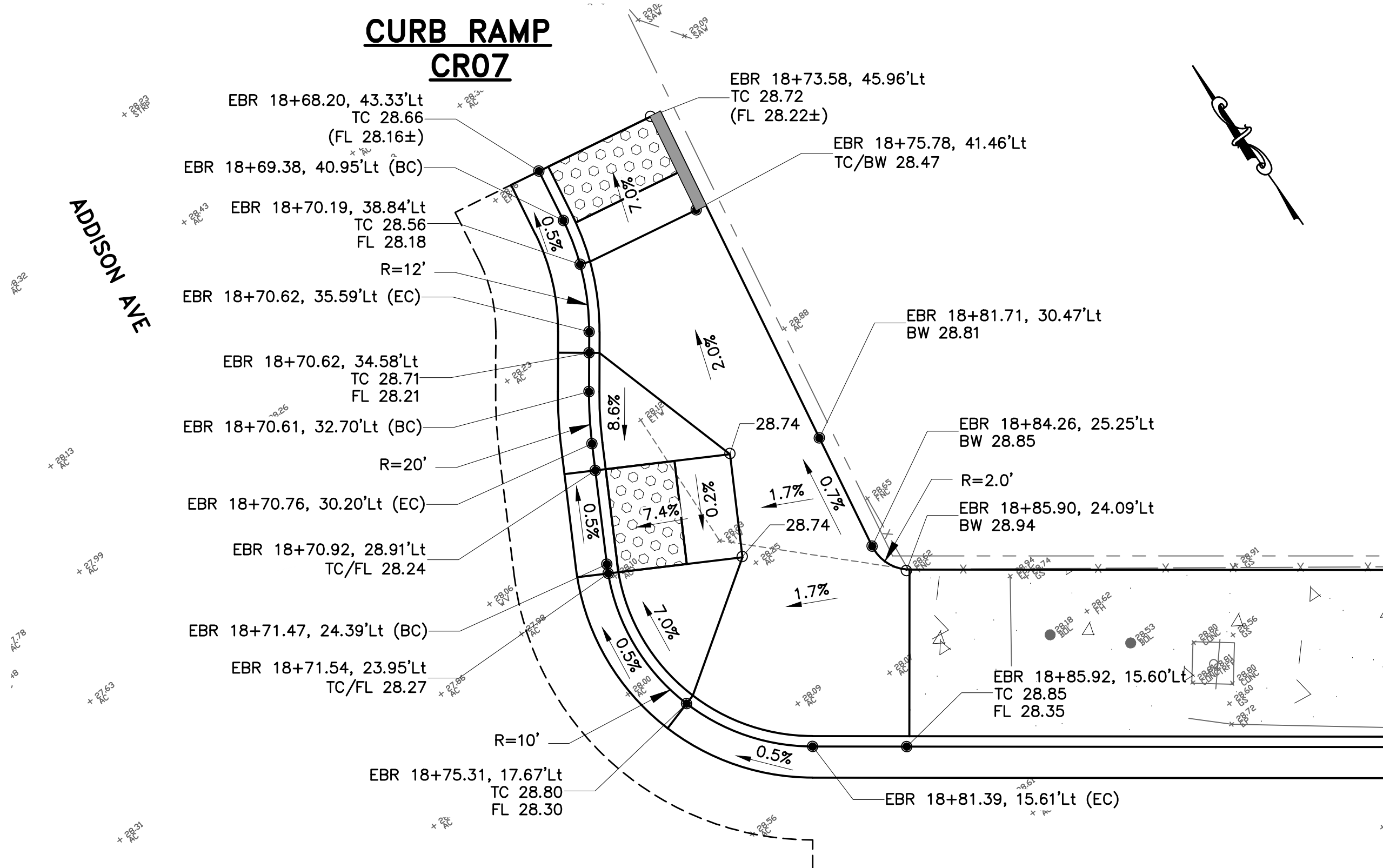


Know what's below.
Call before you dig.

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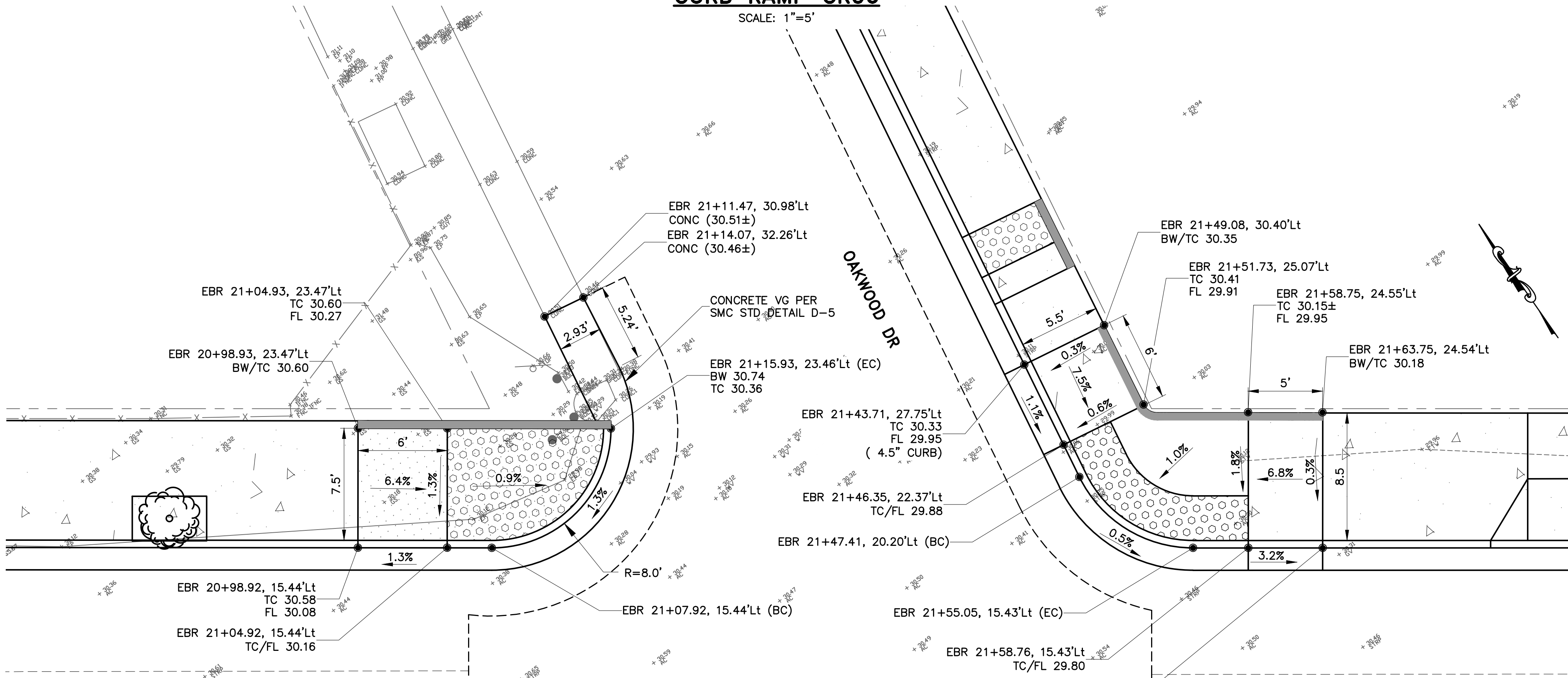
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

CURB RAMP CR07



CURB RAMP CR06

SCALE: 1"=5'



CURB RAMP CR08

SCALE: 1"=5'

CURB RAMP CR09

SCALE: 1"=5'

LEGEND:

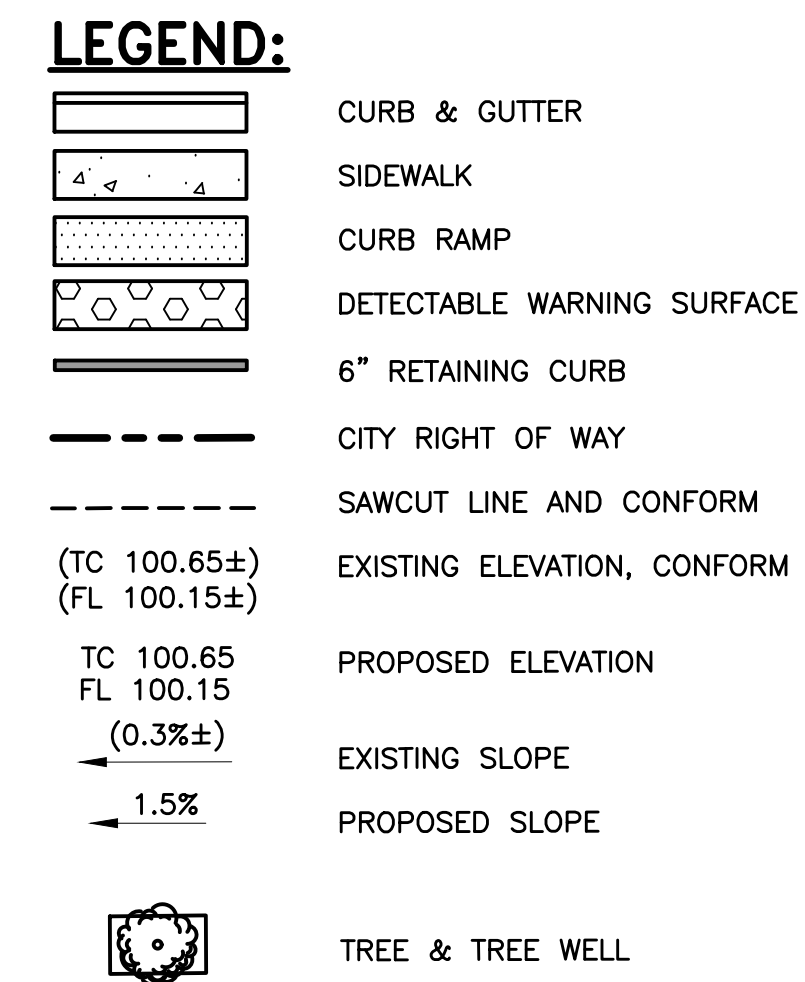
- CURB & GUTTER
- SIDEWALK
- CURB RAMP
- DETECTABLE WARNING SURFACE
- 6" RETAINING CURB
- CITY RIGHT OF WAY
- SAWCUT LINE AND CONFORM
- EXISTING ELEVATION, CONFORM
- PROPOSED ELEVATION
- EXISTING SLOPE
- PROPOSED SLOPE
- TREE & TREE WELL

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DESIGNED BY:		DRAWN BY:		DATE	
HA/16/RG		HA/16/RG			
CSG CONSULTANTS		CSG CONSULTANTS			
550 PILGRIM DRIVE		550 PILGRIM DRIVE			
FOSTER CITY, CA 94404		FOSTER CITY, CA 94404			
PHONE (650)522-2500		PHONE (650)522-2500			
FAX (650)522-2599		FAX (650)522-2599			

TITLE:		SHEET 13		DATE: 11/22/2024	
CURB RAMP GRADING PLAN		OF 35		JOB NO.:	
EAST BAYSHORE ROAD				CIP ST-28	
PEDESTRIAN AND CYCLIST SAFETY					
IMPROVEMENTS PROJECT					
CITY OF EAST PALO ALTO, CALIFORNIA					



SCALE: 1"=5'

SCALE: 1"=5'



SCALE: 1"=5'

1. ALL CURB RAMPS SHALL COMPLY WITH THE MAXIMUM SLOPES, MINIMUM DIMENSIONS, DETECTABLE WARNING SURFACE, AND OTHER MISCELLANEOUS REQUIREMENTS PER CITY STANDARD AND AS SHOWN ON CALTRANS STANDARD PLAN 888A AND 888B.
2. SIDEWALK DETAIL SHALL COMPLY WITH COUNTY STANDARD.
3. THE 36 INCH WIDE BAND AC PLUG IS CONSIDERED PART OF THE NEW CURB RAMP, OR CURB AND GUTTER PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
4. CONFORM TO EXISTING SIDEWALK AND CURB & GUTTER AT NEAREST SCORELINE/CONSTRUCTION JOINT.
5. SCORE LINE PATTERNS ON NEW SIDEWALK SHALL MATCH EXISTING ON ADJACENT SIDEWALK.
7. FOR ALL SIGNAGE RELATED WORK SUCH AS RELOCATING, RESETTling, NEW INSTALLATION ETC., SEE SIGNING AND STRIPING PLANS.
8. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT PRIOR TO THE START OF CONSTRUCTION.
9. MAINTAIN EXISTING CURB RETURN RADIUS AND FLOW LINE ALIGNMENT, UNLESS NOTED OTHERWISE.
10. CONTRACTOR TO COORDINATE WITH IMPACTED UTILITY FACILITY COMPANIES PRIOR TO THE START OF CONSTRUCTION.
11. ALL MANHOLES, VALVES AND PULL BOXES WITHIN THE LIMIT OF CONCRETE IMPROVEMENT SHALL BE ADJUSTED TO FINAL GRADE.
12. ALL IMPROVEMENT SHALL BE WITHIN CITY RIGHT OF WAY, UNLESS OTHERWISE NOTED.
13. WHEN CONSTRUCTING THE NEW SIDEWALK, THE CONTRACTOR SHALL ENSURE THAT THE BACK OF WALK TRANSITIONS SMOOTHLY WITH THE EXISTING ASPHALT/CONCRETE, LEAVING NO GAPS BETWEEN THE NEW CONSTRUCTION AND THE EXISTING SURFACE.

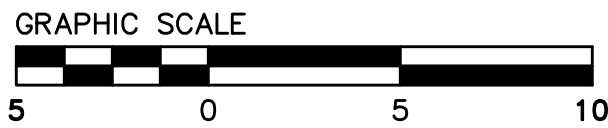
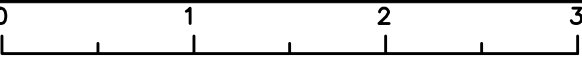
\\SERVER\Clients\DESIGN\24-499-1\12-15 GRADING PLANS (CR)-499-1.dwg 05/23/18 PM



Know what's below.
Call before you dig.

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FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



LEGEND:

- CURB & GUTTER
- SIDEWALK
- CURB RAMP
- DETECTABLE WARNING SURFACE
- 6" RETAINING CURB
- CITY RIGHT OF WAY
- SAWCUT LINE AND CONFORM
- EXISTING ELEVATION, CONFORM
- PROPOSED ELEVATION
- EXISTING SLOPE
- PROPOSED SLOPE
- TREE & TREE WELL

CONSTRUCTION NOTES:

- ALL CURB RAMP SHALL COMPLY WITH THE MAXIMUM SLOPES, MINIMUM DIMENSIONS, DETECTABLE WARNING SURFACE, AND OTHER MISCELLANEOUS REQUIREMENTS PER CITY STANDARD AND AS SHOWN ON CALTRANS STANDARD PLAN A88A AND A88B.
- SIDEWALK DETAIL SHALL COMPLY WITH COUNTY STANDARD.
- THE 36 INCH WIDE BAND AC PLUG IS CONSIDERED PART OF THE NEW CURB RAMP, OR CURB AND GUTTER PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- CONFORM TO EXISTING SIDEWALK AND CURB & GUTTER AT NEAREST SCORELINE/CONSTRUCTION JOINT.
- SCORE LINE PATTERNS ON NEW SIDEWALK SHALL MATCH EXISTING ON ADJACENT SIDEWALK.
- FOR ALL SIGNAGE RELATED WORK SUCH AS RELOCATING, RESETTling, NEW INSTALLATION ETC., SEE SIGNING AND STRIPING PLANS.
- CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT PRIOR TO THE START OF CONSTRUCTION.
- MAINTAIN EXISTING CURB RETURN RADIUS AND FLOW LINE ALIGNMENT, UNLESS NOTED OTHERWISE.
- CONTRACTOR TO COORDINATE WITH IMPACTED UTILITY FACILITY COMPANIES PRIOR TO THE START OF CONSTRUCTION.
- ALL MANHOLES, VALVES AND PULL BOXES WITHIN THE LIMIT OF CONCRETE IMPROVEMENT SHALL BE ADJUSTED TO FINAL GRADE.
- ALL IMPROVEMENT SHALL BE WITHIN CITY RIGHT OF WAY, UNLESS OTHERWISE NOTED.
- WHEN CONSTRUCTING THE NEW SIDEWALK, THE CONTRACTOR SHALL ENSURE THAT THE BACK OF WALK TRANSITIONS SMOOTHLY WITH THE EXISTING ASPHALT/CONCRETE, LEAVING NO GAPS BETWEEN THE NEW CONSTRUCTION AND THE EXISTING SURFACE.

DESIGNED BY:	HA/16/RG	NO.	REVISIONS	DATE
DRAWN BY:	HA/16/RG			
CSG CONSULTANTS				
550 PILGRIM DRIVE FOSTER CITY, CA 94404 PHONE (650)522-2500 FAX (650)522-2599				
PREPARED BY:				
TITLE: CURB RAMP GRADING PLAN				
EAST BAYSHORE ROAD PEDESTRIAN AND CYCLIST SAFETY IMPROVEMENTS PROJECT CITY OF EAST PALO ALTO, CALIFORNIA				
SHEET 15 OF 35				
DATE: 11/22/2024 JOB NO.: CIP ST-28				

\\SERVER2\Clients\DESIGN\24-499-1\16-19_DRAINAGE PLANS-499-1.dwg 06:05:43 PM



Know what's below.
Call before you dig.

MATCH LINE - SEE ABOVE

MATCH LINE - SEE ABOVE

MATCH LINE - SEE BELOW

MATCH LINE - SEE BELOW

MATCH LINE - SEE SHEET 17

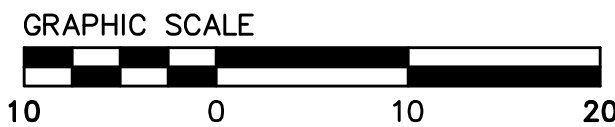
UTILITY POT HOLE LOG						NOTES
POT HOLE No.	LOCATION TYPE	MATERIAL	UTILITY DIAMETER (in)	AC THICKNESS	UTILITY DEPTH (in)	
PH8	GAS	STEEL	2.0"	4.0"	54.0"	LOCATED GASLINE TRAVELING E TO W AT 54"
PH9	-	-	-	-	-	UNABLE TO LOCATE AND MARK STORM DRAIN ON RALMAR ROAD DUE TO PIPE BEING FILLED WITH DEBRIS.
PH10	GAS	STEEL	2.0"	6.0"	36.0"	FOUND (1)2"STL GAS AT 36" PIPE IS TRAVELING WEST TO EAST
PH11	WATER	STEEL	6.0"	4.0"	34.0"	LOCATED WATERLINE TRAVELING N TO S AT 34"
PH12	WATER	STEEL	6.0"	4.0"	SEE NOTE	WHILE ATTEMPTING TO LOCATE WATERLINE TRAVELING N TO S WE DISCOVERED CONCRETE AT 24" DEPTH FROM TOP OF ASPHALT TO TOP OF CONCRETE
PH13	GAS	STEEL	2.0"	N/A	35.0"	FOUND (1)2"STL GAS AT 36" PIPE IS TRAVELING WEST TO EAST
PH14	WATER	RCP	6.0"	4.0"	32.0"	LOCATED WATERLINE TRAVELING E TO W AT 32"
PH15	GAS	STEEL	4.0"	4.0"	39.0"	LOCATED GASLINE TRAVELING N TO S AT 39"

LEGEND

- DRAINAGE SYSTEM NUMBER
- DRAINAGE FEATURE
- STORM DRAIN PIPE
- EXISTING INLET
- EXISTING MANHOLE
- PROPOSED STORM DRAIN MANHOLE PER SMC STD DETAILS NO. B-10
- FIELD INLET PER SMC STD DETAILS NO. B-5
- DIRECTION OF FLOW
- CITY RIGHT OF WAY
- INSTALL 3" SUB-DRAIN PIPE PER COUNTY STD DETAIL D-6.
- CLEAN OUT
- 6"ø PERFORATED PIPE, SEE SPECIFICATIONS
- 3" STREAMBED COBBLE SET
- PROPOSED POT HOLE LOCATION (TOTAL OF 15)
- TREE & TREE WELL PER DETAIL 8, SHEET 34.

CONSTRUCTION NOTES:

- SEE TYPICAL TRENCH SECTION DETAIL FOR PIPE INSTALLATION PER SMC STD DETAIL NO. B-15.
- POT HOLE TO VERIFY THE DEPTH OF EXISTING UTILITIES PRIOR TO START OF WORK.
- ALL EXISTING DRAINAGE PIPE ALIGNMENT ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY EXISTING STORM DRAIN PIPE ALIGNMENT, MATERIAL, SIZE, INVERT ELEVATIONS OF INLET AND MANHOLE PRIOR TO START OF CONSTRUCTION.
- FINISH GRADE OF BOTTOM OF GREEN INFRASTRUCTURES SHALL BE FLAT UNLESS OTHERWISE NOTED.
- ALL ENERGY DISSIPATORS SHALL BE INSTALLED TO SLOPE TOWARDS CENTER OF GREEN INFRASTRUCTURE WITH A SLOPE OF 2% MIN. AND 5% MAX. PER DETAIL 4 ON SHEET 33.
- 6"ø RCP TUBING SUBDRAIN SHALL BE PLACED IN A STRAIGHT OR MEANDER FASHION, WITH PERFORATIONS POINTED DOWN. SEE DETAIL 5 ON SHEET 33.
- SEE BIORETENTION PLAN SHEETS 23-25 FOR BIORETENTION DETAILS.



DRAINAGE
SCALE: 1"=10'

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

Plotted on: 02/18/25 @ 06:05:43 PM

DESIGNED BY: HA/JG/RG	NO.	REVISIONS	DATE
DRAWN BY: HA/JG/RG			
CSG CONSULTANTS 550 PILGRIM DRIVE FOSTER CITY, CA 94404 PHONE (650)522-2500 FAX (650)522-2599			
DRAINAGE PLAN EAST BAYSHORE ROAD PEDESTRIAN AND CYCLIST SAFETY IMPROVEMENTS PROJECT CITY OF EAST PALO ALTO, CALIFORNIA			
TITLE: SHEET 16 OF 35			
DATE: 11/22/2024 JOB NO.: CIP ST-28			

\\SERVER2\Clients\DESIGN\24-499-1 EPA E Bayshore Pedestrian & Bicycle Improvements\PLANS-499-1\16-19 DRAINAGE PLANS-499-1.dwg 06:06:38 PM



Know what's below.
Call before you dig.

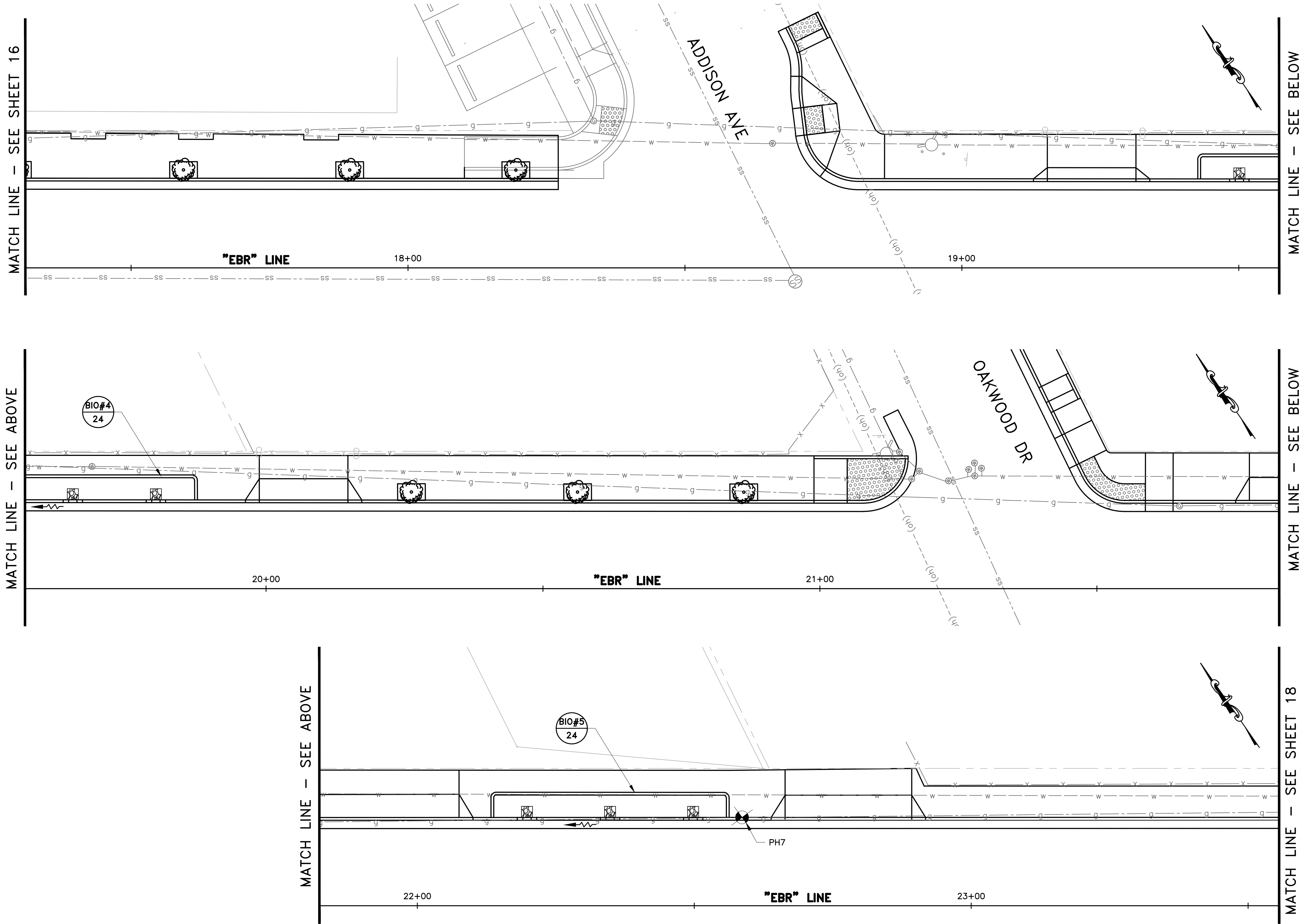
Plotted on: 02/18/25 @ 06:06:38 PM

UTILITY POTHOLE LOG						
POTHOLE No.	LOCATION TYPE	MATERIAL	UTILITY DIAMETER (in)	AC THICKNESS	UTILITY DEPTH (in)	NOTES
PH7	GAS	STEEL	2.0"	4.0"	54.0"	LOCATED GASLINE TRAVELING NW TO SE AT 54"

DRAINAGE

SCALE: 1"=10'

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

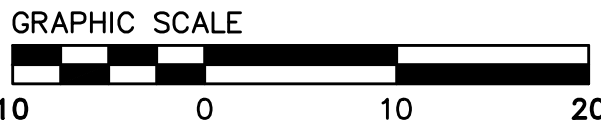


LEGEND

- DRAINAGE SYSTEM NUMBER
- DRAINAGE FEATURE
- STORM DRAIN PIPE
- EXISTING INLET
- EXISTING MANHOLE
- PROPOSED STORM DRAIN MANHOLE PER SMC STD DETAILS NO. B-10
- FIELD INLET PER SMC STD DETAILS NO. B-5
- DIRECTION OF FLOW
- CITY RIGHT OF WAY
- INSTALL 3" SUB-DRAIN PIPE PER COUNTY STD DETAIL D-6.
- CLEAN OUT
- 6"Ø PERFORATED PIPE, SEE SPECIFICATIONS
- 3" STREAMBED COBBLE SET
- PROPOSED POTHOLE LOCATION (TOTAL OF 15)
- TREE & TREE WELL PER DETAIL 8, SHEET 34.

CONSTRUCTION NOTES:

- SEE TYPICAL TRENCH SECTION DETAIL FOR PIPE INSTALLATION PER SMC STD DETAIL NO. B-15.
- POTHOLE TO VERIFY THE DEPTH OF EXISTING UTILITIES PRIOR TO START OF WORK.
- ALL EXISTING DRAINAGE PIPE ALIGNMENT ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY EXISTING STORM DRAIN PIPE ALIGNMENT, MATERIAL, SIZE, INVERT ELEVATIONS OF INLET AND MANHOLE PRIOR TO START OF CONSTRUCTION.
- FINISH GRADE OF BOTTOM OF GREEN INFRASTRUCTURES SHALL BE FLAT UNLESS OTHERWISE NOTED.
- ALL ENERGY DISSIPATORS SHALL BE INSTALLED TO SLOPE TOWARDS CENTER OF GREEN INFRASTRUCTURE WITH A SLOPE OF 2% MIN. AND 5% MAX. PER DETAIL 4 ON SHEET 33.
- 6"Ø RCP TUBING SUBDRAIN SHALL BE PLACED IN A STRAIGHT OR MEANDER FASHION, WITH PERFORATIONS POINTED DOWN. SEE DETAIL 5 ON SHEET 33.
- SEE BIORETENTION PLAN SHEETS 23-25 FOR BIORETENTION DETAILS.



DESIGNED BY: HA/JG/RG	NO.	REVISIONS	DATE
DRAWN BY: HA/JG/RG			
CSG CONSULTANTS 550 PILGRIM DRIVE FOSTER CITY, CA 94404 PHONE (650)522-2500 FAX (650)522-2599			
DRAINAGE PLAN EAST BAYSHORE ROAD PEDESTRIAN AND CYCLIST SAFETY IMPROVEMENTS PROJECT CITY OF EAST PALO ALTO, CALIFORNIA			
SHEET 17 OF 35			
DATE: 11/22/2024 JOB NO.: CIP ST-28			

\\SERVER2\Clients\DESIGN\24-499-1 EPA E Bayshore Pedestrian & Bicycle Improvements\PLANS-499-1\16-19 DRAINAGE PLANS-499-1.dwg 06:08:07 PM

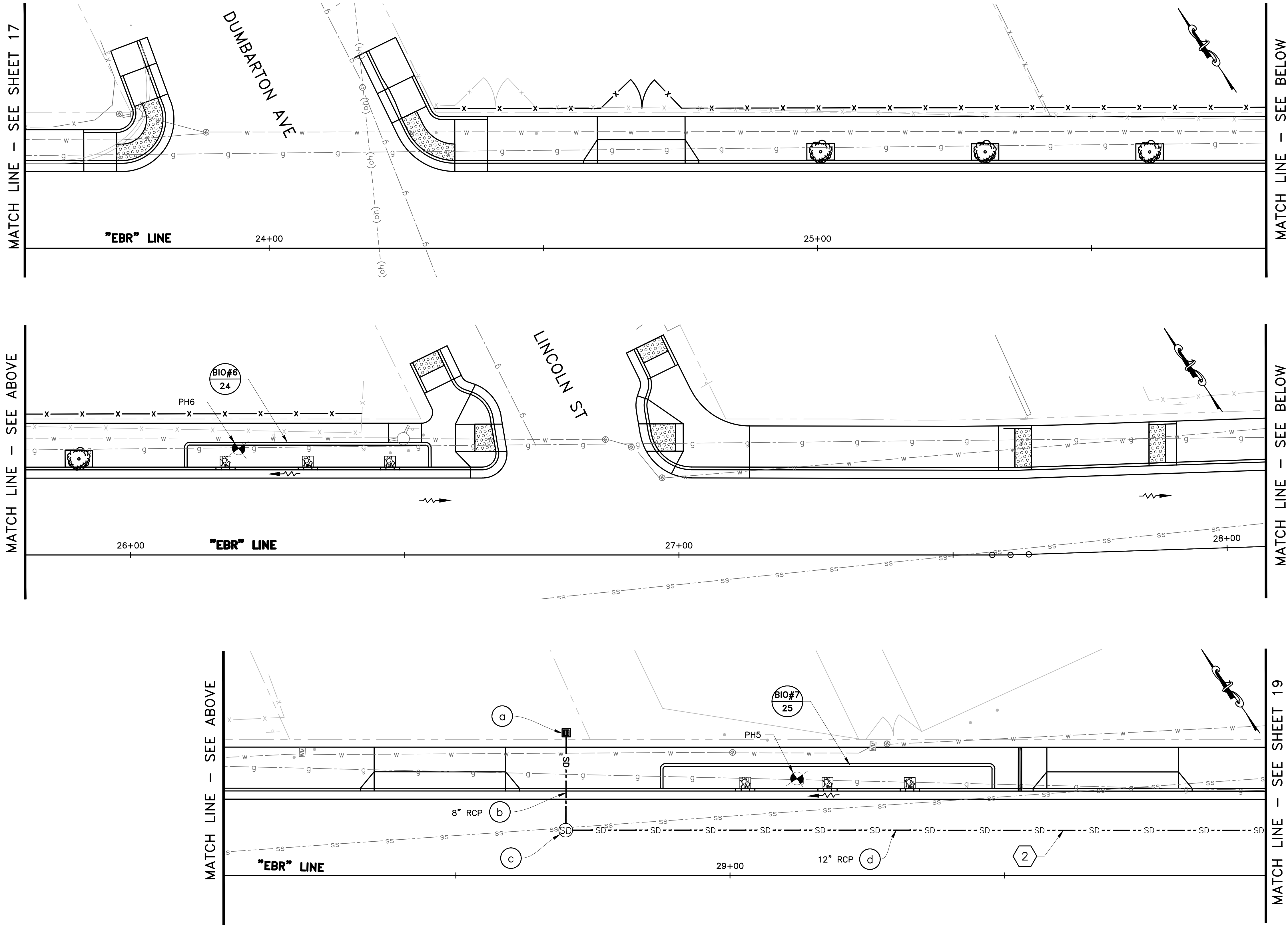


Know what's below.
Call before you dig.

DRAINAGE
SCALE: 1"=10'

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

UTILITY POTHOLE LOG						
POTHOLE No.	LOCATION TYPE	MATERIAL	UTILITY DIAMETER (in)	AC THICKNESS	UTILITY DEPTH (in)	NOTES
PH5	GAS	STEEL	3.0"	6.0"	47.0"	FOUND(1)3"STL GAS AT 47" PIPE IS TRAVELING NORTH WEST TO SOUTH EAST
PH6	GAS	STEEL	2.0"	4.0"	54.0"	FOUND(1)2"STL GAS AT 62" PIPE IS TRAVELING WEST TO EAST

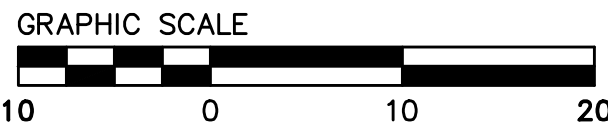


LEGEND

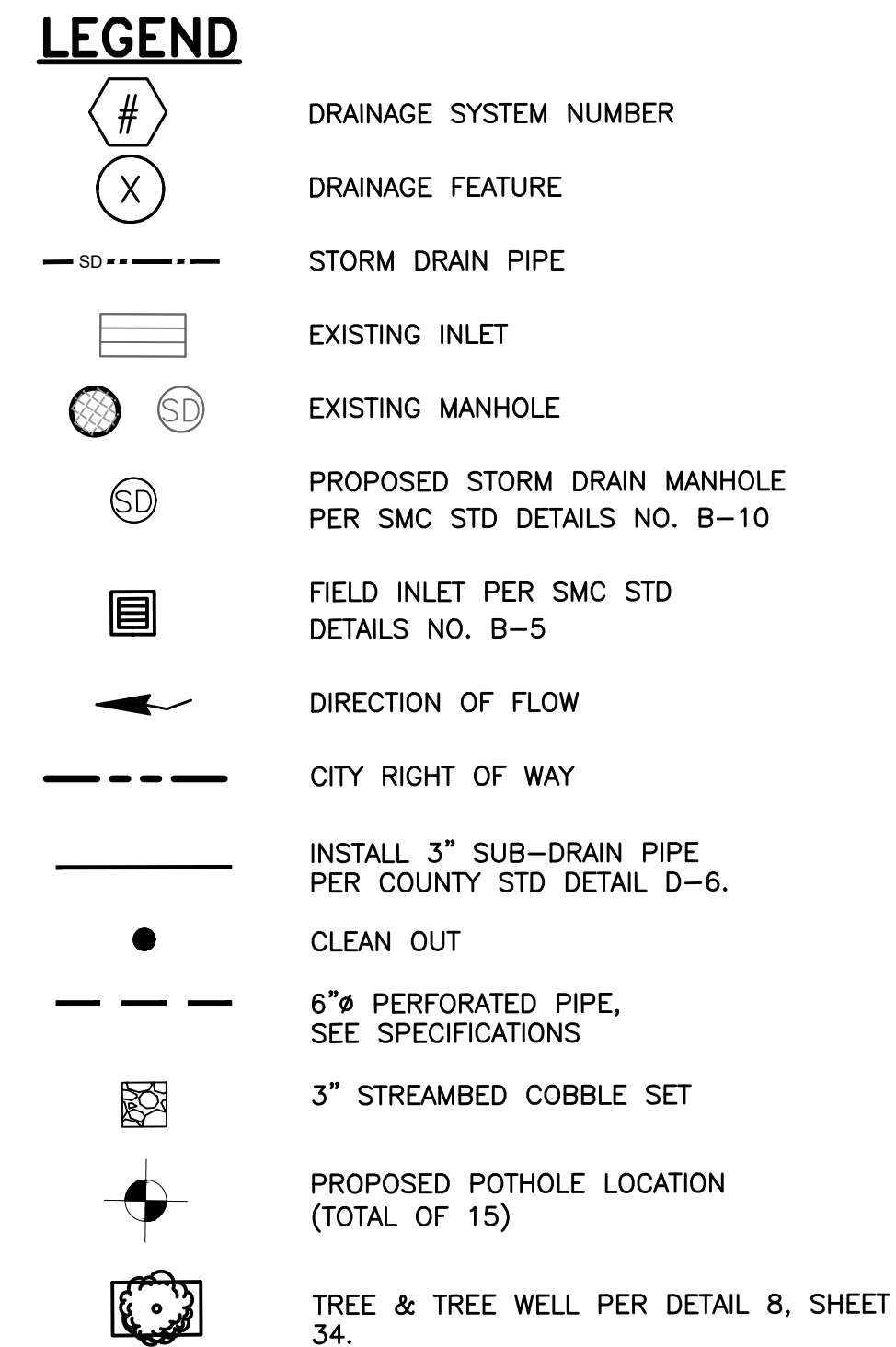
- DRAINAGE SYSTEM NUMBER
- DRAINAGE FEATURE
- STORM DRAIN PIPE
- EXISTING INLET
- EXISTING MANHOLE
- PROPOSED STORM DRAIN MANHOLE PER SMC STD DETAILS NO. B-10
- FIELD INLET PER SMC STD DETAILS NO. B-5
- DIRECTION OF FLOW
- CITY RIGHT OF WAY
- INSTALL 3" SUB-DRAIN PIPE PER COUNTY STD DETAIL D-6.
- CLEAN OUT
- 6"Ø PERFORATED PIPE, SEE SPECIFICATIONS
- 3" STREAMBED COBBLE SET
- PROPOSED POTHOLE LOCATION (TOTAL OF 15)
- TREE & TREE WELL PER DETAIL 8, SHEET 34.

CONSTRUCTION NOTES:

- SEE TYPICAL TRENCH SECTION DETAIL FOR PIPE INSTALLATION PER SMC STD DETAIL NO. B-15.
- POTHOLE TO VERIFY THE DEPTH OF EXISTING UTILITIES PRIOR TO START OF WORK.
- ALL EXISTING DRAINAGE PIPE ALIGNMENT ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY EXISTING STORM DRAIN PIPE ALIGNMENT, MATERIAL, SIZE, INVERT ELEVATIONS OF INLET AND MANHOLE PRIOR TO START OF CONSTRUCTION.
- FINISH GRADE OF BOTTOM OF GREEN INFRASTRUCTURES SHALL BE FLAT UNLESS OTHERWISE NOTED.
- ALL ENERGY DISSIPATORS SHALL BE INSTALLED TO SLOPE TOWARDS CENTER OF GREEN INFRASTRUCTURE WITH A SLOPE OF 2% MIN. AND 5% MAX. PER DETAIL 4 ON SHEET 33.
- 6"Ø RCP TUBING SUBDRAIN SHALL BE PLACED IN A STRAIGHT OR MEANDER FASHION, WITH PERFORATIONS POINTED DOWN. SEE DETAIL 5 ON SHEET 33.
- SEE BIORETENTION PLAN SHEETS 23-25 FOR BIORETENTION DETAILS.



DESIGNED BY: HA/JG/RG	NO.	REVISIONS	DATE
DRAWN BY: HA/JG/RG			
CSG CONSULTANTS 550 PILGRIM DRIVE FOSTER CITY, CA 94404 PHONE (650)522-2500 FAX (650)522-2599			
DRAINAGE PLAN EAST BAYSHORE ROAD PEDESTRIAN AND CYCLIST SAFETY IMPROVEMENTS PROJECT CITY OF EAST PALO ALTO, CALIFORNIA			
SHEET 18 OF 35			
DATE: 11/22/2024 JOB NO.: CIP ST-28			



1. SEE TYPICAL TRENCH SECTION DETAIL FOR PIPE INSTALLATION PER SMC STD DETAIL NO. B-15.
2. POTHOLE TO VERIFY THE DEPTH OF EXISTING UTILITIES PRIOR TO START OF WORK.
3. ALL EXISTING DRAINAGE PIPE ALIGNMENT ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY EXISTING STORM DRAIN PIPE ALIGNMENT, MATERIAL, SIZE, INVERT ELEVATIONS OF INLET AND MANHOLE PRIOR TO START OF CONSTRUCTION.
4. FINISH GRADE OF BOTTOM OF GREEN INFRASTRUCTURES SHALL BE FLAT UNLESS OTHERWISE NOTED.
5. ALL ENERGY DISSIPATORS SHALL BE INSTALLED TO SLOPE TOWARDS CENTER OF GREEN INFRASTRUCTURE WITH A SLOPE OF 2% MIN. AND 5% MAX. PER DETAIL 4 ON SHEET 33.
6. 6"Ø RCP TUBING SUBDRRAIN SHALL BE PLACED IN A STRAIGHT OR MEANDER FASHION, WITH PERFORATIONS POINTED DOWN. SEE DETAIL 5 ON SHEET 33.
7. SEE BIORETENTION PLAN SHEETS 23-25 FOR BIORETENTION DETAILS.

GRAPHIC SCALE

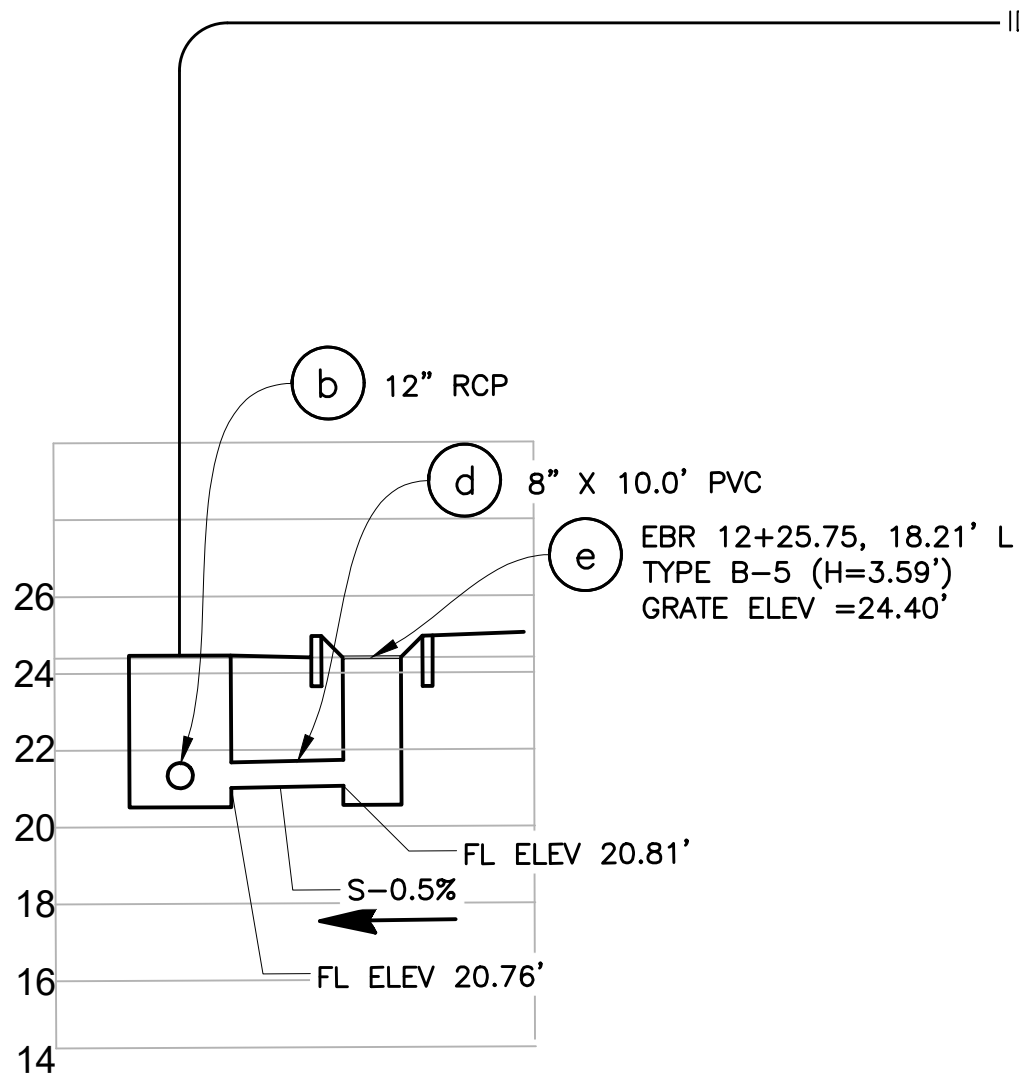
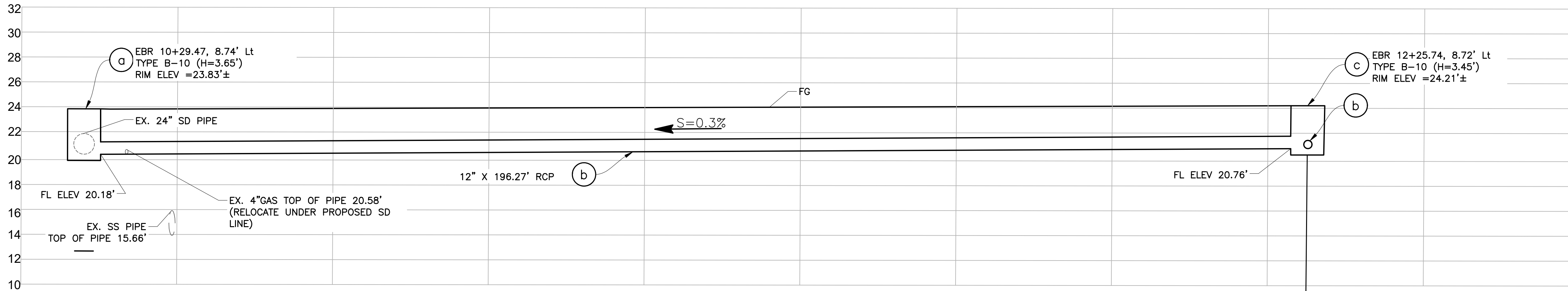


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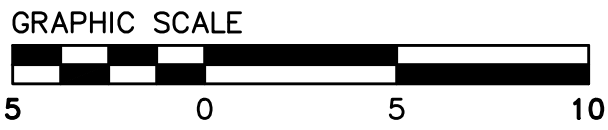
\\SERVER2\Clients\DESIGN\24-499-1 EPA E Bayshore Pedestrian & Bicycle Improvements\PLANS-499-1\20-22 DRAINAGE PROFILE-499-1.dwg@ 05:25:01 PM



Know what's below.
Call before you dig.



DRAINAGE SYSTEM ①



Horiz: 1"=10'
Vert: 1"=5'

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

Plotted on: 02/24/25 @ 05:25:01 PM

DESIGNED BY: HA/JG/RG		NO.	REVISIONS	DATE
DRAWN BY: HA/JG/RG				
CSG CONSULTANTS 550 PILGRIM DRIVE FOSTER CITY, CA 94404 PHONE (650)522-2500 FAX (650)522-2599				
DRAINAGE PROFILE EAST BAYSHORE ROAD PEDESTRIAN AND CYCLIST SAFETY IMPROVEMENTS PROJECT CITY OF EAST PALO ALTO, CALIFORNIA				
SHEET 20 OF 35				
DATE: 11/22/2024 JOB NO.: CIP ST-28				

\\SERVER2\Clients\DESIGN\24-499-1 EPA E Bayshore Pedestrian & Bicycle Improvements\PLANS-499-1\20-22 DRAINAGE PROFILE-499-1.dwg 05:25:49 PM

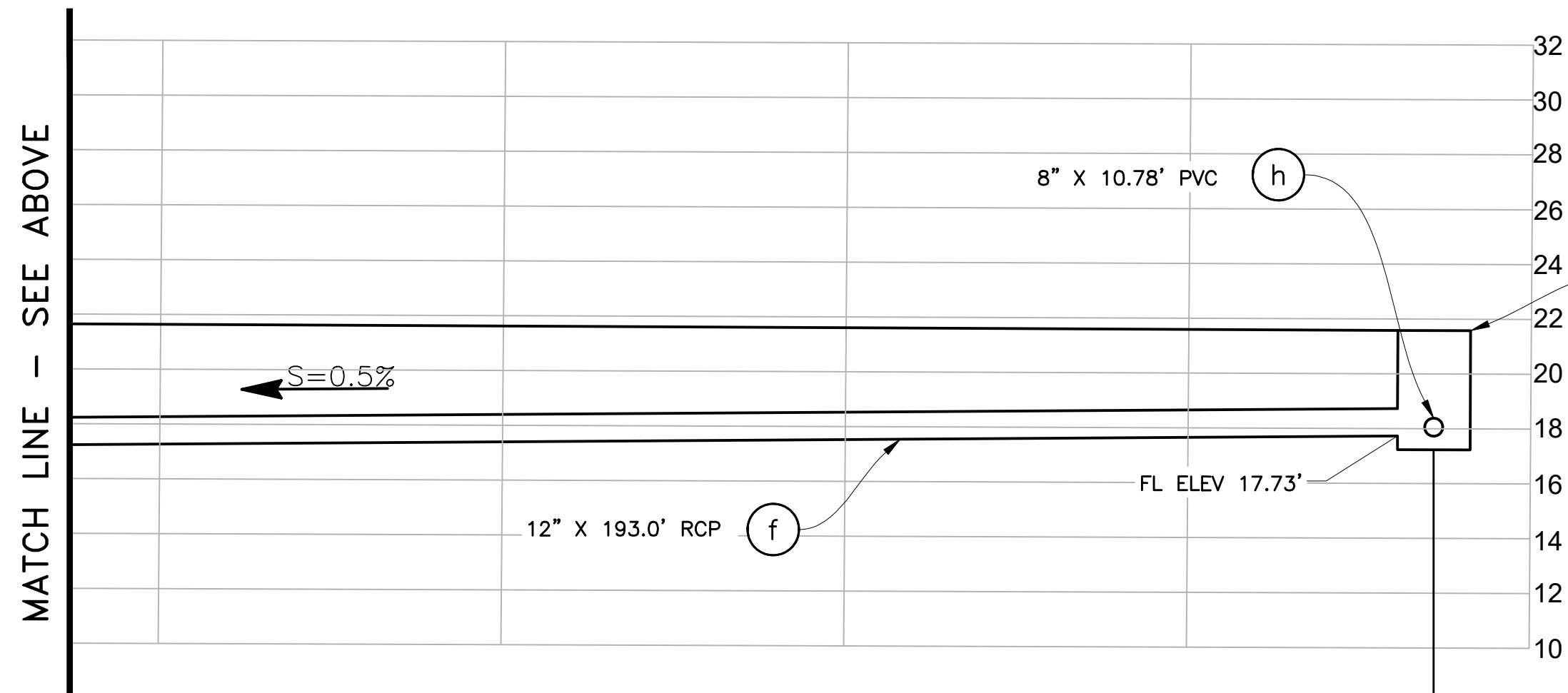


Know what's below.
Call before you dig.

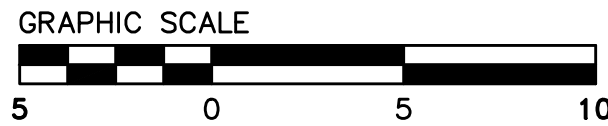
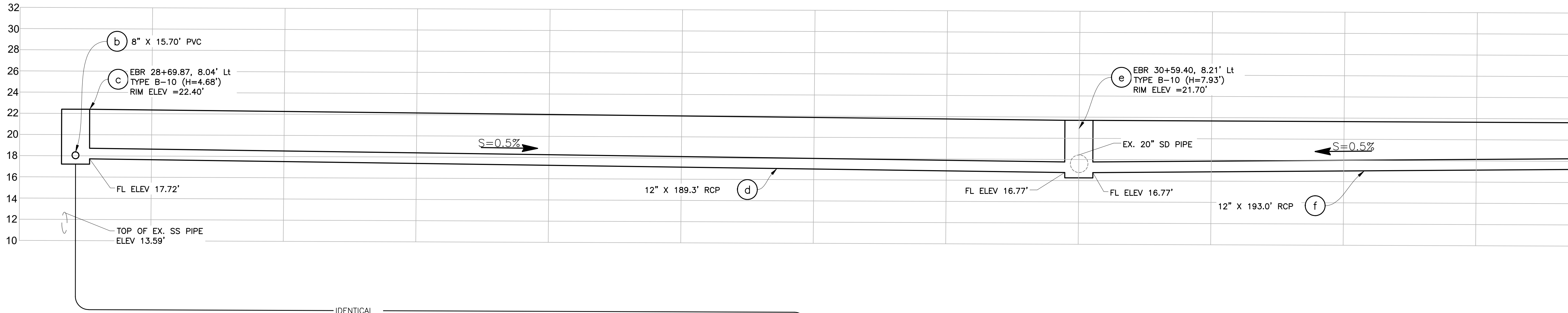
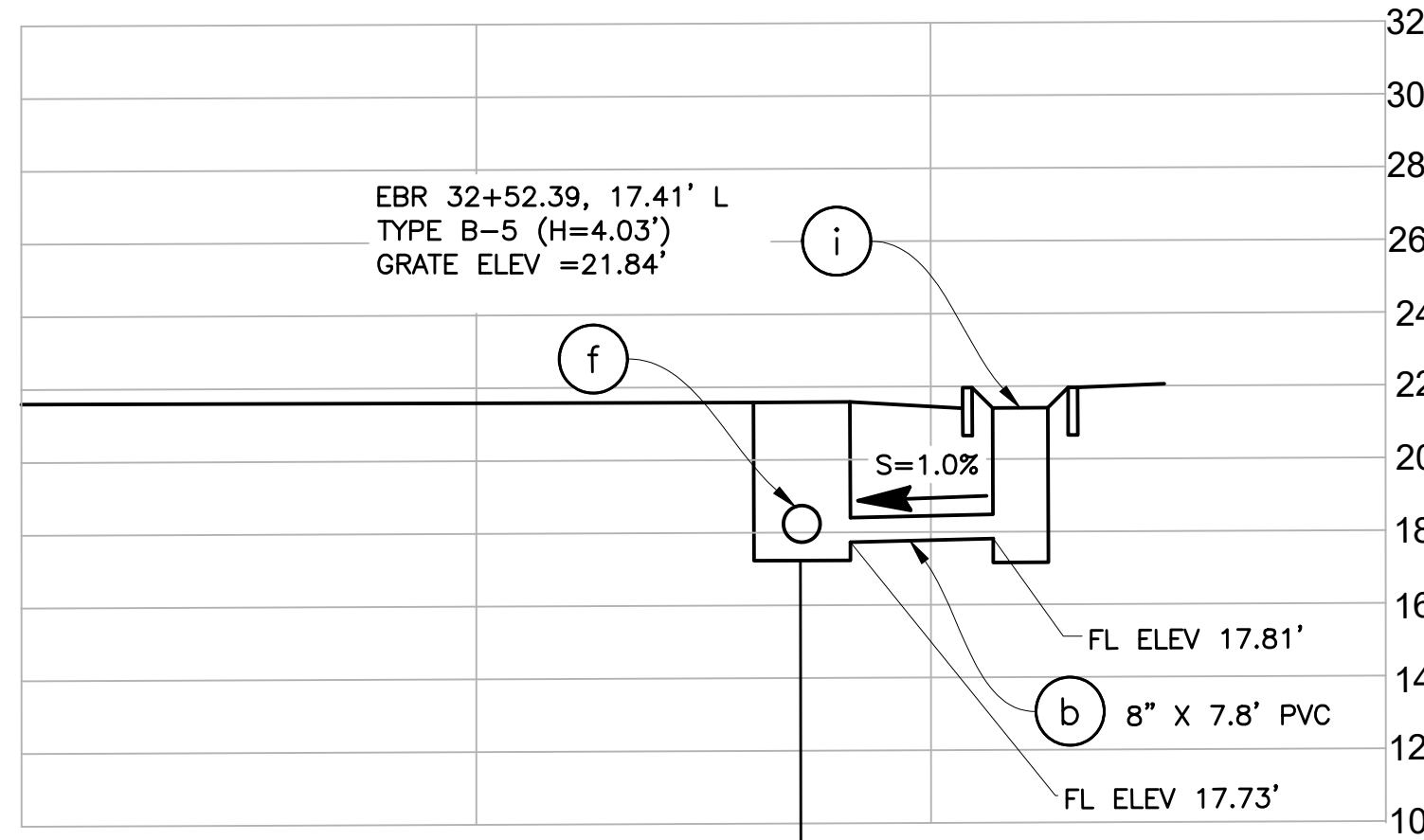
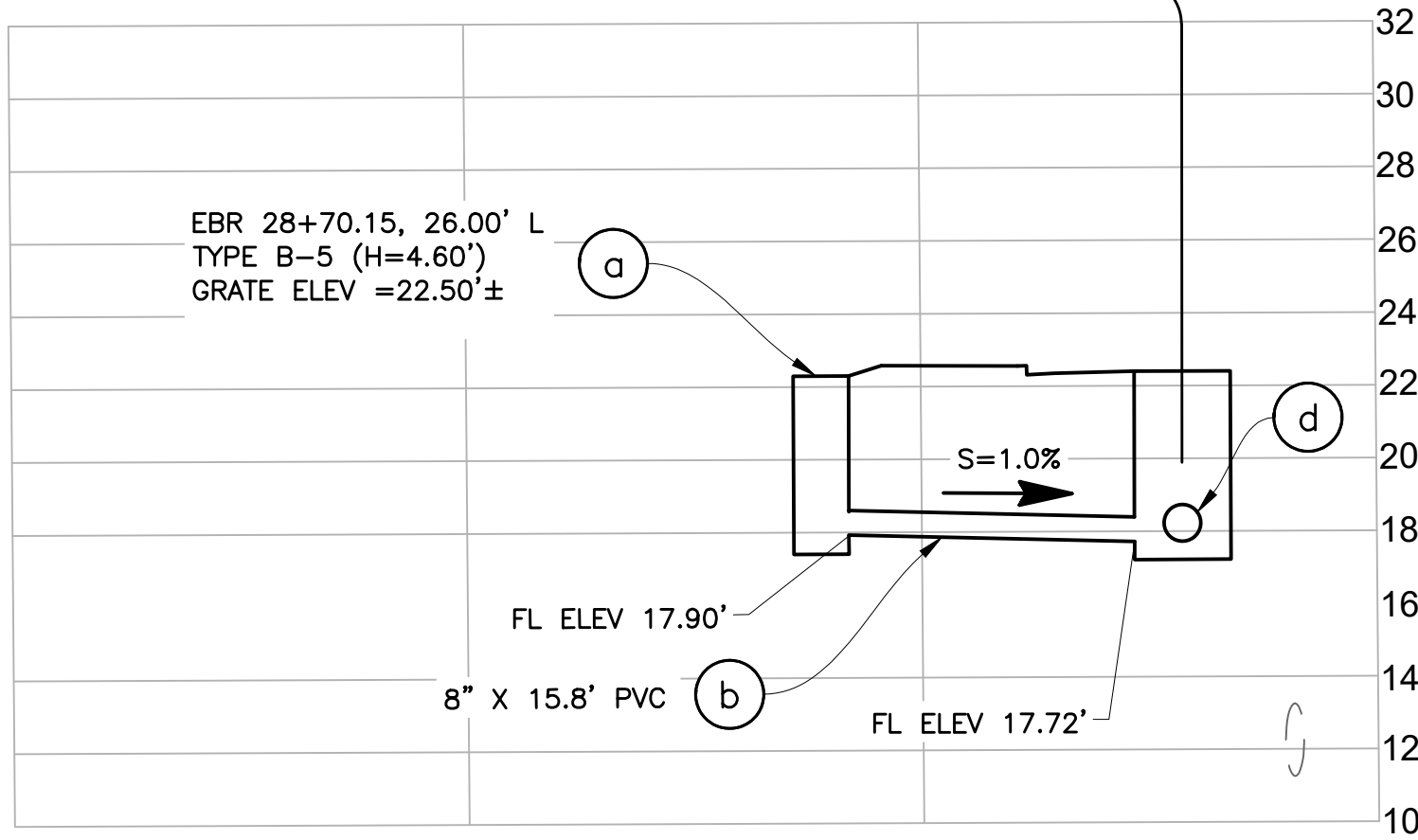
Plotted on: 02/24/25 © 05:25:49 PM

FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

DRAINAGE SYSTEM 2



EBR 32+52.16, 7.88' Lt
TYPE B-10 (H=3.85')
RIM ELEV =21.58'



Horiz: 1"=10'
Vert: 1"=5'

DESIGNED BY: HA/JG/RG		NO.	REVISIONS	DATE
DRAWN BY: HA/JG/RG				
PREPARED BY: CSG CONSULTANTS 550 PILGRIM DRIVE FOSTER CITY, CA 94404 PHONE (650)522-2500 FAX (650)522-2599				
TITLE: DRAINAGE PROFILE EAST BAYSHORE ROAD PEDESTRIAN AND CYCLIST SAFETY IMPROVEMENTS PROJECT CITY OF EAST PALO ALTO, CALIFORNIA				
SHEET 22 OF 35				
DATE: 11/22/2024 JOB NO.: CIP ST-28				

\\SERVER2\Clients\DESIGN\24-499-1 EPA E Bayshore Pedestrian & Bicycle Improvements\PLANS-499-1\23-25 BIORETENTION AREA-PLANS-499-1.dwg 05:27:56 PM

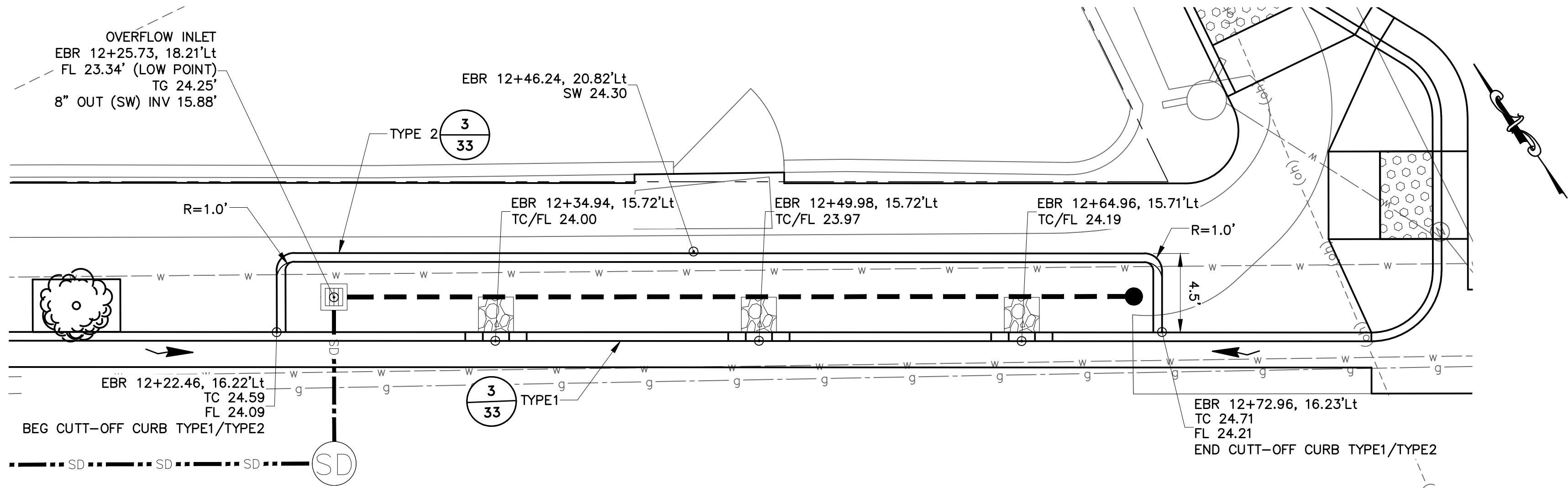


Know what's below.
Call before you dig.

Plotted on: 02/24/25 © 05:27:56 PM

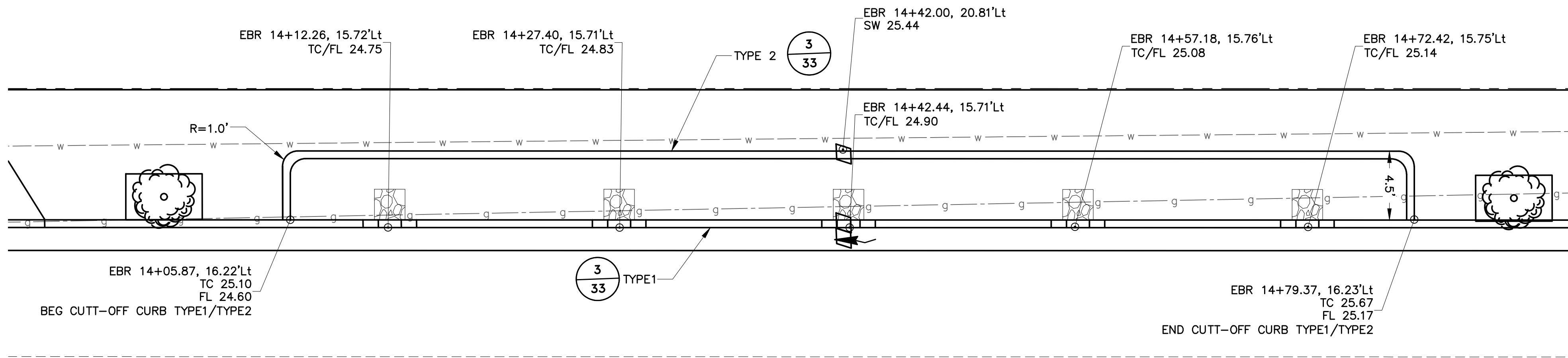
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

0 1 2 3



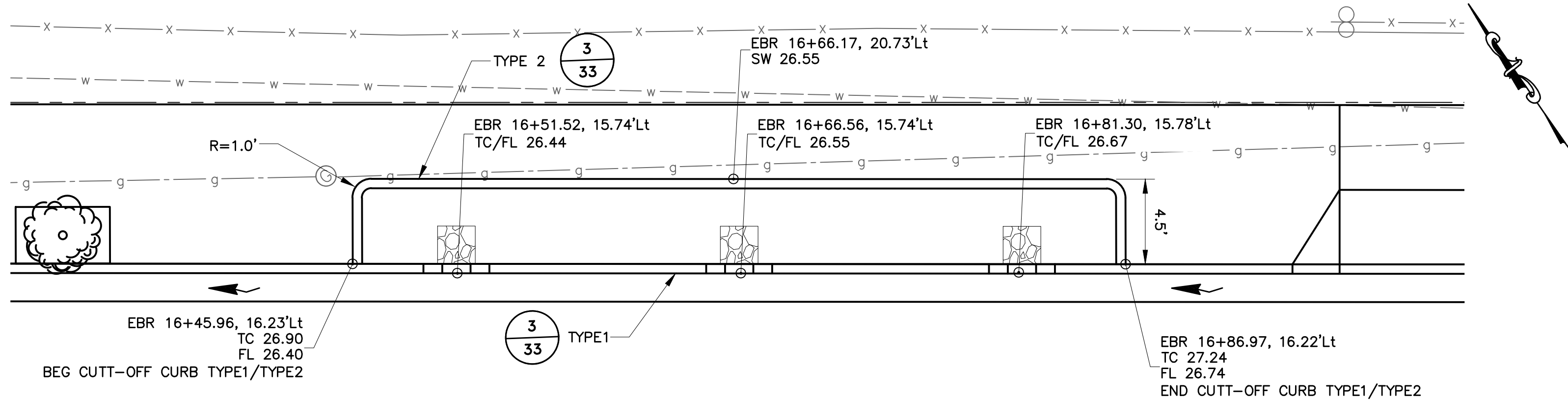
BIORETENTION AREA #1

SCALE: 1"=5'



BIORETENTION AREA #2

SCALE: 1"=5'



BIORETENTION AREA #3

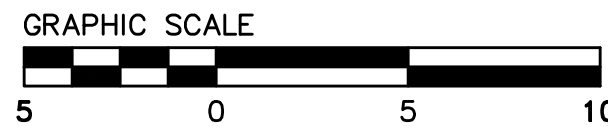
SCALE: 1"=5'

LEGEND

- SD STORM DRAIN PIPE
- EXISTING INLET
- EXISTING MANHOLE
- PROPOSED STORM DRAIN MANHOLE
PER SMC STD DETAILS NO. B-10
- FIELD INLET PER SMC STD
DETAILS NO. B-5
- DIRECTION OF FLOW
- CITY RIGHT OF WAY
- INSTALL 3" SUB-DRAIN PIPE
PER COUNTY STD DETAIL D-6.
- CLEAN OUT
- 6" PERFORATED PIPE,
SEE SPECIFICATIONS
- 3" STREAMBED COBBLE SET
- PROPOSED POTHOLE LOCATION,
DEPTH NOT TO EXCEED 5'
(TOTAL OF 22)
- TREE & TREE WELL PER DERAIL 8. S
34.

CONSTRUCTION NOTES:

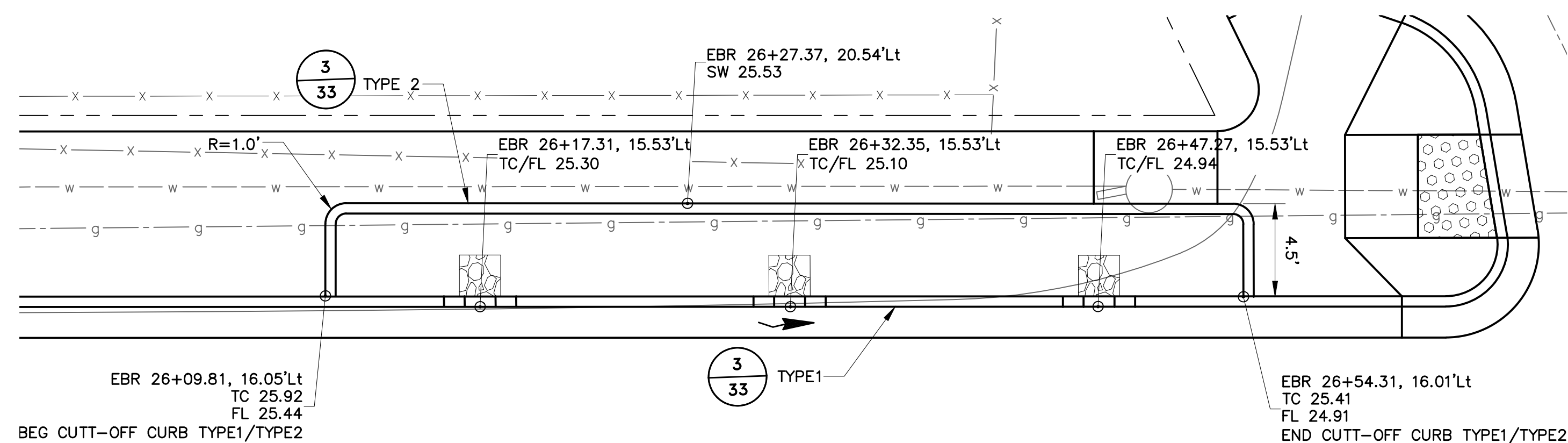
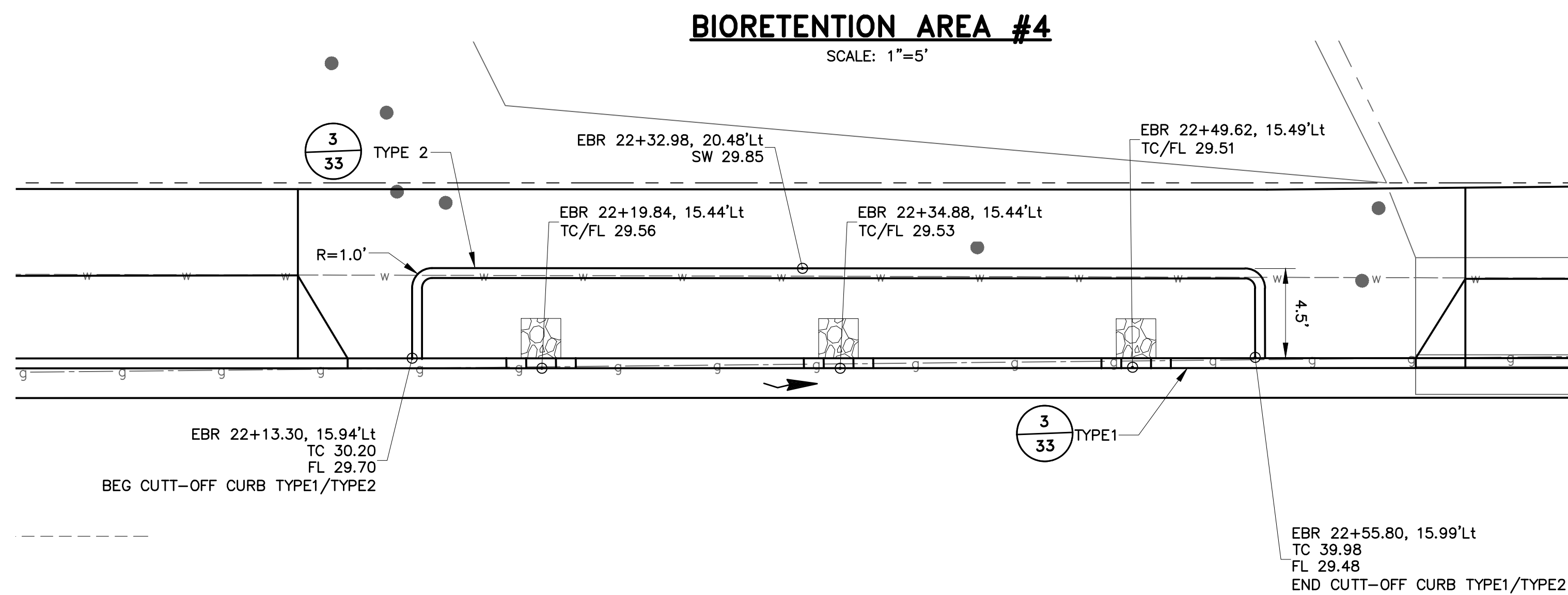
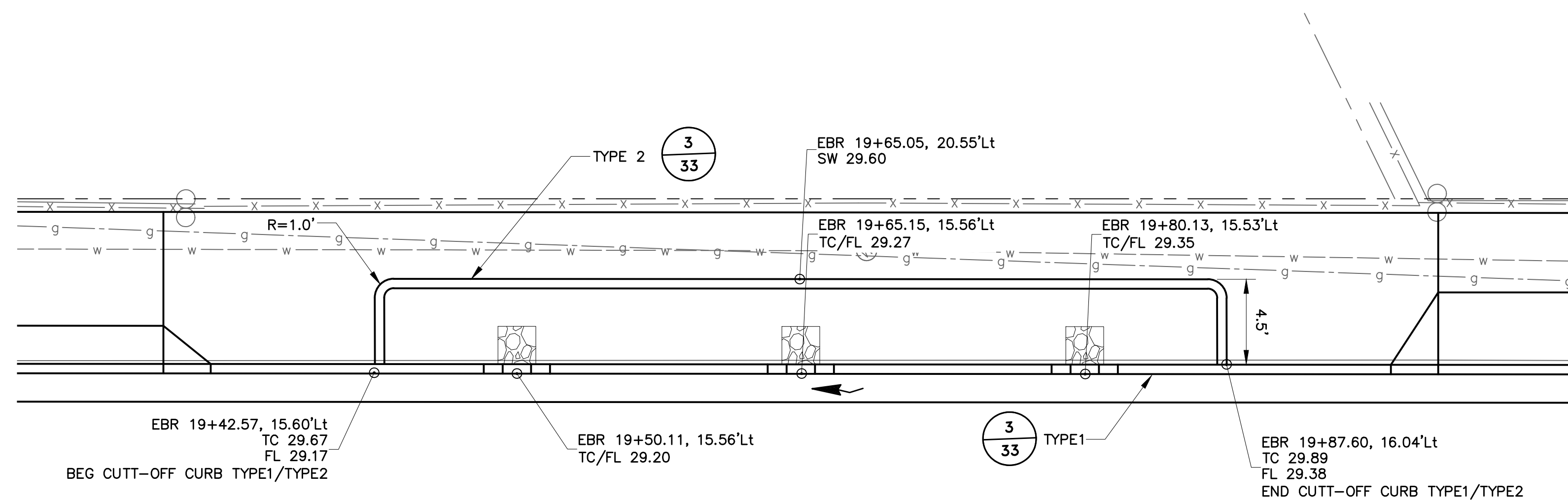
- SEE TYPICAL TRENCH SECTION DETAIL FOR PIPE
INSTALLATION PER SMC STD DETAIL NO. B-15.
- POTHOLE TO VERIFY THE DEPTH OF EXISTING UTILITIES
PRIOR TO START OF WORK.
- ALL EXISTING DRAINAGE PIPE ALIGNMENT ARE
APPROXIMATE. CONTRACTOR TO FIELD VERIFY EXISTING
STORM DRAIN PIPE ALIGNMENT, MATERIAL, SIZE, INVERT
ELEVATIONS OF INLET AND MANHOLE PRIOR TO START
OF CONSTRUCTION.
- FINISH GRADE OF BOTTOM OF BIORETENTION AREA
SHALL BE FLAT UNLESS OTHERWISE NOTED.
- ALL ENERGY DISSIPATORS SHALL BE INSTALLED TO
SLOPE TOWARDS CENTER OF BIORETENTION AREA WITH A
SLOPE OF 2% MIN. AND 5% MAX. PER DETAIL 12 ON
SHEET 33.
- 6" HDPE TUBING SUBDRAIN SHALL BE PLACED IN A
STRAIGHT OR MEANDER FASHION, WITH PERFORATIONS
POINTED DOWN.



DESIGNED BY:		DRAWN BY:		DATE	
HA/JG/RG		HA/JG/RG			

PREPARED BY:		TITLE:		SHEET 23 OF 35	
CSG CONSULTANTS		BIORETENTION AREA PLAN			
550 PILGRIM DRIVE FOSTER CITY, CA 94404 PHONE (650)522-2500 FAX (650)522-2599		EAST BAYSHORE ROAD PEDESTRIAN AND CYCLIST SAFETY IMPROVEMENTS PROJECT CITY OF EAST PALO ALTO, CALIFORNIA			

DATE:		JOB NO.:	
11/22/2024		CIP ST-28	



- ### LEGEND

- | | |
|---|---|
|  | STORM DRAIN PIPE |
|  | EXISTING INLET |
|  | EXISTING MANHOLE |
|  | PROPOSED STORM DRAIN MANHOLE
PER SMC STD DETAILS NO. B-10 |
|  | PROPOSED STORM DRAIN MANHOLE
PER SMC STD DETAILS NO. B-10 |
|  | FIELD INLET PER SMC STD
DETAILS NO. B-5 |
|  | DIRECTION OF FLOW |
|  | CITY RIGHT OF WAY |
|  | INSTALL 3" SUB-DRAIN PIPE
PER COUNTY STD DETAIL D-6. |
|  | CLEAN OUT |
|  | 6"Ø PERFORATED PIPE,
SEE SPECIFICATIONS |
|  | 3" STREAMBED COBBLE SET |
|  | PROPOSED POTHOLE LOCATION,
DEPTH NOT TO EXCEED 5'
(TOTAL OF 22) |
|  | TREE & TREE WELL PER DERAIL 8. SHEET 34. |

CONSTRUCTION NOTES:

1. SEE TYPICAL TRENCH SECTION DETAIL FOR PIPE INSTALLATION PER SMC STD DETAIL NO. B-15.
2. POTHOLE TO VERIFY THE DEPTH OF EXISTING UTILITIES PRIOR TO START OF WORK.
3. ALL EXISTING DRAINAGE PIPE ALIGNMENT ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY EXISTING STORM DRAIN PIPE ALIGNMENT, MATERIAL, SIZE, INVERT ELEVATIONS OF INLET AND MANHOLE PRIOR TO START OF CONSTRUCTION.
4. FINISH GRADE OF BOTTOM OF BIORETENTION AREA SHALL BE FLAT UNLESS OTHERWISE NOTED.
5. ALL ENERGY DISSIPATORS SHALL BE INSTALLED TO SLOPE TOWARDS CENTER OF BIORETENTION AREA WITH A SLOPE OF 2% MIN. AND 5% MAX. PER DETAIL 12 ON SHEET 33.
6. 6"Ø HDPE TUBING SUBDRAIN SHALL BE PLACED IN A STRAIGHT OR MEANDER FASHION, WITH PERFORATIONS POINTED DOWN.

DESIGNED BY:
HA/JG/RG

DRAWN BY:
HA/JG/RG

CSG CONSULTANTS
550 PILGRIM DRIVE
FOSTER CITY, CA 94404
PHONE (650) 522-2500
FAX (650) 522-2599

PREPARED BY:

**EAST BAYSHORE ROAD
PEDESTRIAN AND CYCLIST SAFETY
IMPROVEMENTS PROJECT**

CITY OF EAST PALO ALTO, CALIFORNIA

3711

SHEET 24
OF
35

DATE: 11/22/2024
JOB NO.:

ST-28



\\SERVER2\Clients\DESIGN\24.499-1 EPA E Boyshore Pedestrian & Bicycle Improvements\PLANS-499-1\23-25_BIORETENTION AREA-PLANS-499-1.dwg@ 05:30:39 PM



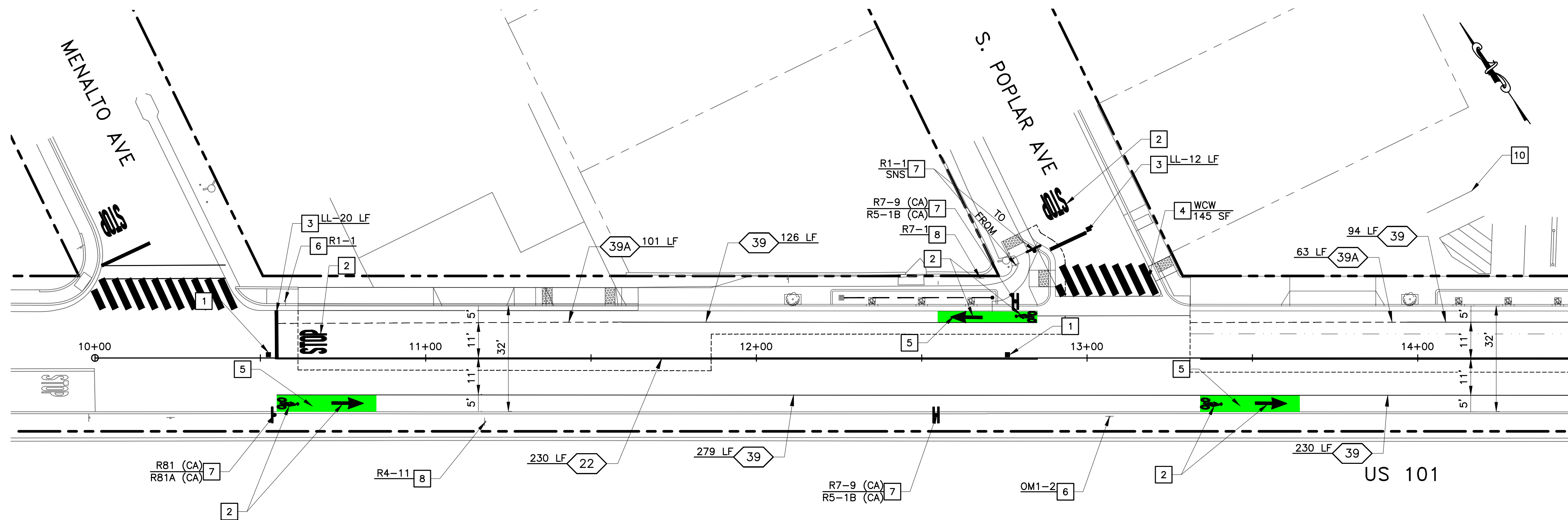
Know what's below.
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FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

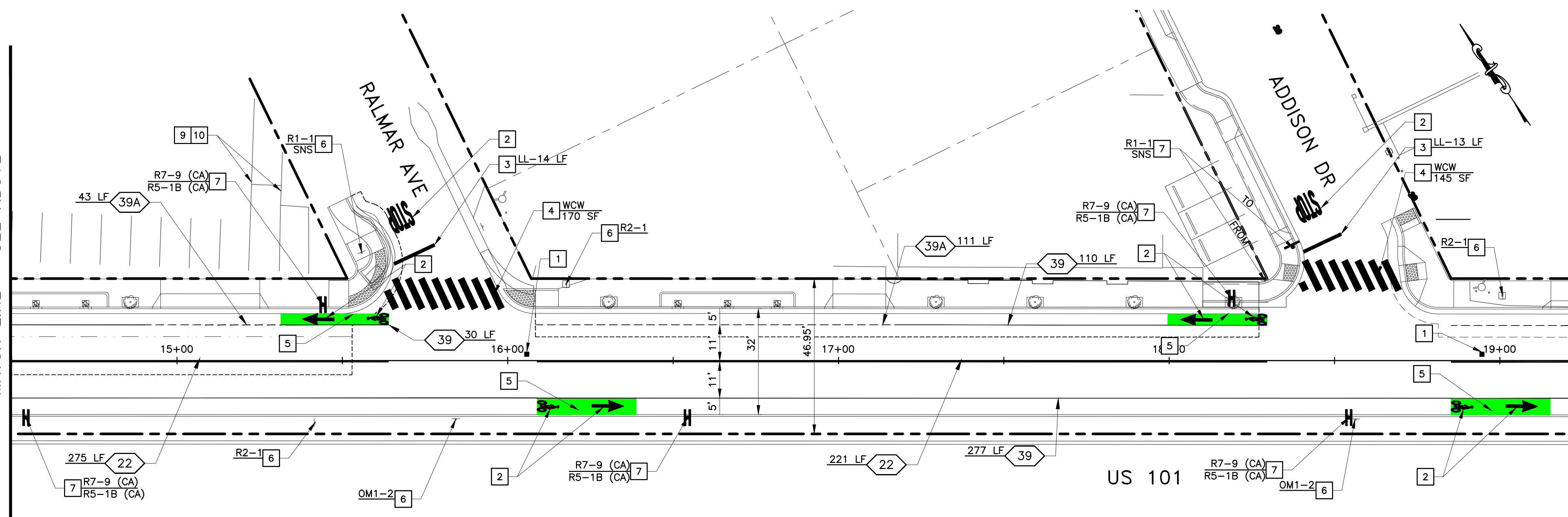
GRAPHIC SCALE



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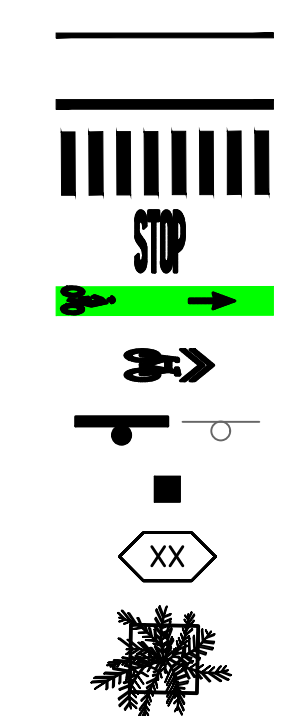


PLAN
EAST BAYSHORE ROAD
SCALE: 1" = 20'



PLAN
EAST BAYSHORE ROAD
SCALE: 1" = 20'

- ## LEGEND



PROJECT NOTES:

1. INSTALL TWO-WAY REFLECTIVE FIRE HYDRANT BLUE PAVEMENT MARKER.
2. THERMOPLASTIC PAVEMENT MARKING PER CALTRANS STD PLANS A24A TO A24G.
3. 12" LIMIT LINE.
4. CONTINENTAL CROSSWALK,
5. THERMOPLASTIC GREEN BIKE LANE.
6. PROTECT IN PLACE.
7. NEW SIGN AND POST OR RELOCATE EX. SIGN.
8. REMOVE EX. TRAFFIC SIGN.
9. EXISTING STRIPING TO BE REMOVED. BUSINESSES TO COORDINATE WITH THE CITY.
10. NEW STRIPING LAYOUT. BUSINESSES TO COORDINATE WITH THE CITY.

CONSTRUCTION NOTES:

1. INSTALL BLUE MARKERS AT EACH FIRE HYDRANT LOCATION WHETHER FIRE HYDRANTS ARE SHOWN ON THESE PLANS OR NOT.
2. PAVEMENT STRIPING AND MARKINGS SHALL BE REMOVED & REPLACED IN KIND UNLESS OTHERWISE SHOWN.
3. STRIPING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
4. ALL STRIPING AND MARKINGS SHALL BE CAT TRACKED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO FINAL INSTALLATION. A MINIMUM OF 72 HOUR NOTICE IS REQUIRED.
5. ALL EXISTING SIGNS SHALL REMAIN UNLESS OTHERWISE SHOWN ON THE PLANS.

DESIGNED BY: HA/JG/RG
DRAWN BY: HA/JG/RG

CSG CONSULTANTS
5550 PILGRIM DRIVE
FOSTER CITY, CA 94404
PHONE (650) 522-2500
FAX (650) 522-2599



SIGNING AND STRIPING PLAN

SHEET 26
OF
35

DATE: 11/22/2024
JOB NO.:
CIP ST-28



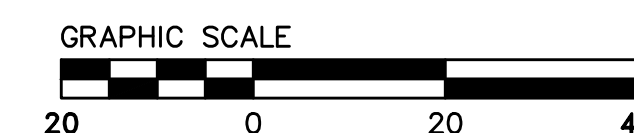
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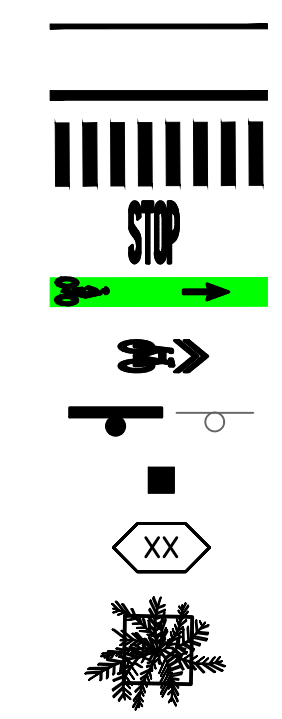
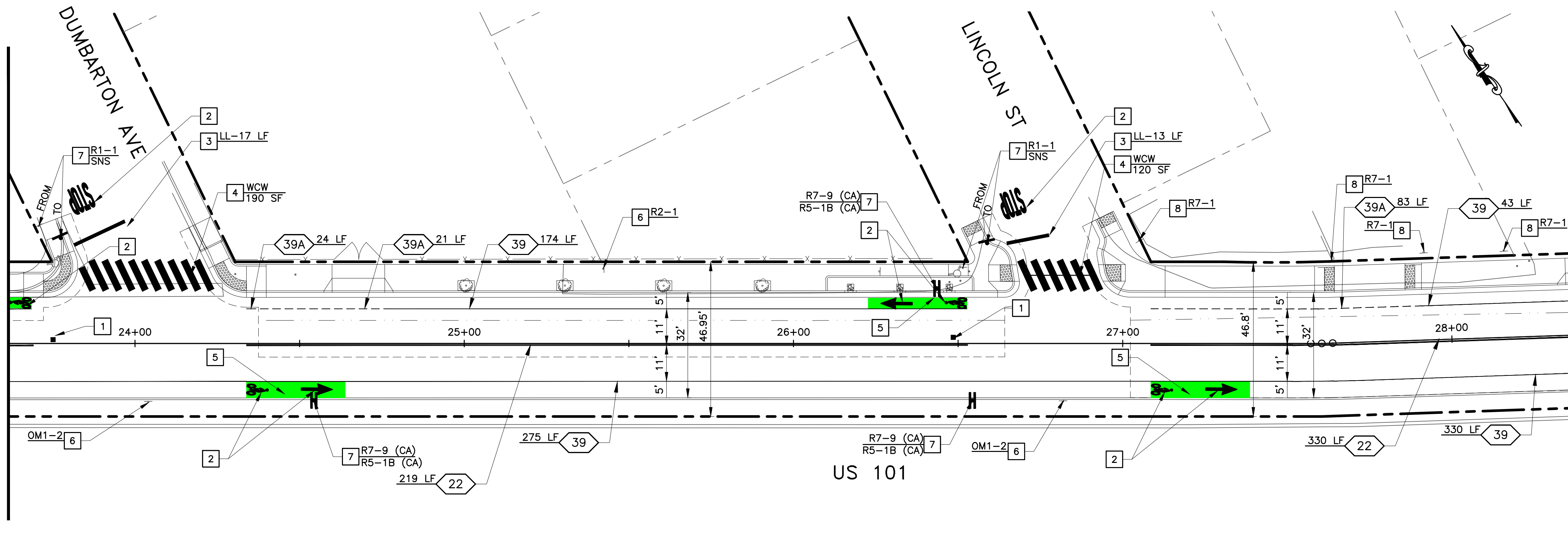
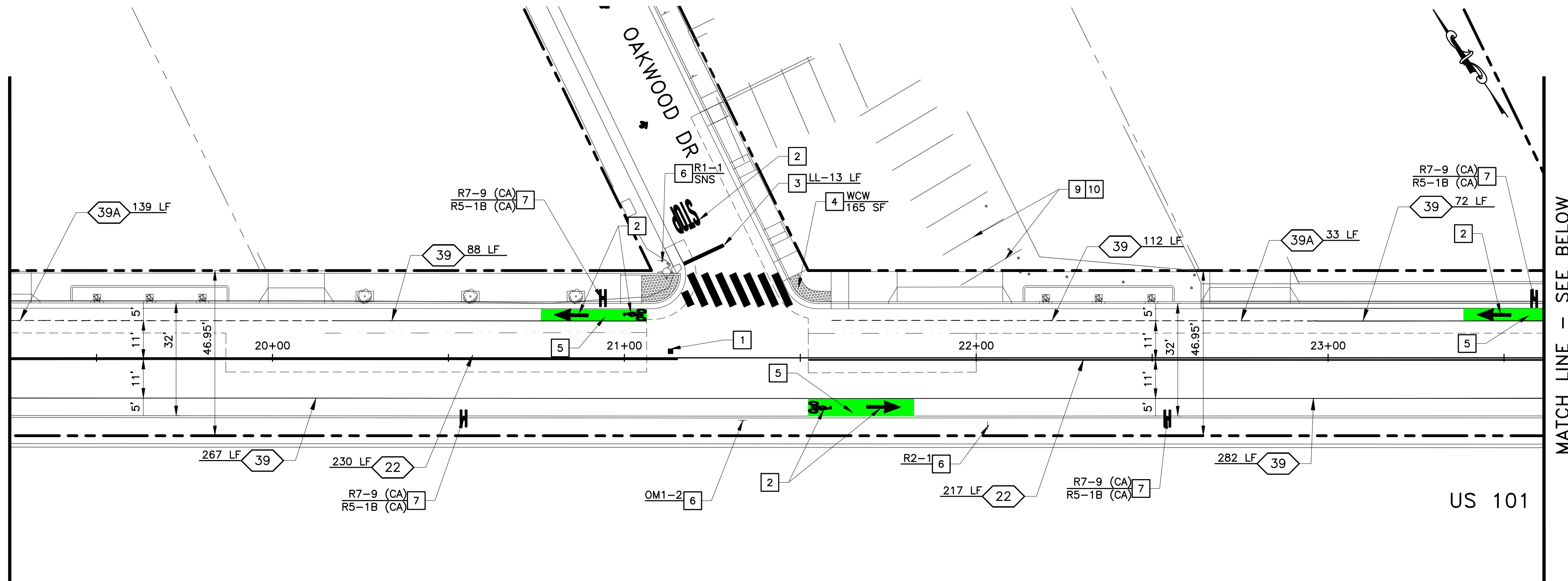
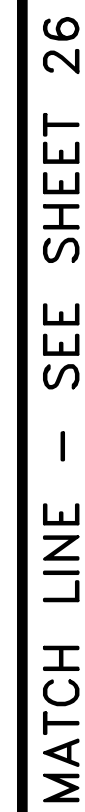


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Call before you dig.

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FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES



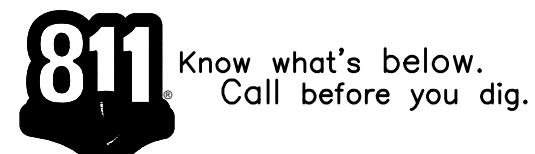


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4. CONTINENTAL CROSSWALK,
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6. PROTECT IN PLACE.
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FOR REDUCED PLANS 0 1 2
ORIGINAL SCALE IS IN INCHES



DESIGNED BY:
HA/JG/RG

DRAWN BY:
HA/JG/RG

CSG CONSULTANTS
550 PILGRIM DRIVE
FOSTER CITY, CA 94404
PHONE (650)522-2500
FAX (650)522-2599

PROJECT TITLE: SIGNING AND STRIPING PLAN
EAST BAYSHORE ROAD
PEDESTRIAN AND CYCLIST SAFETY
IMPROVEMENTS PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 27
OF
35

DATE: 11/22/2024
JOB NO.:
CIP ST-28

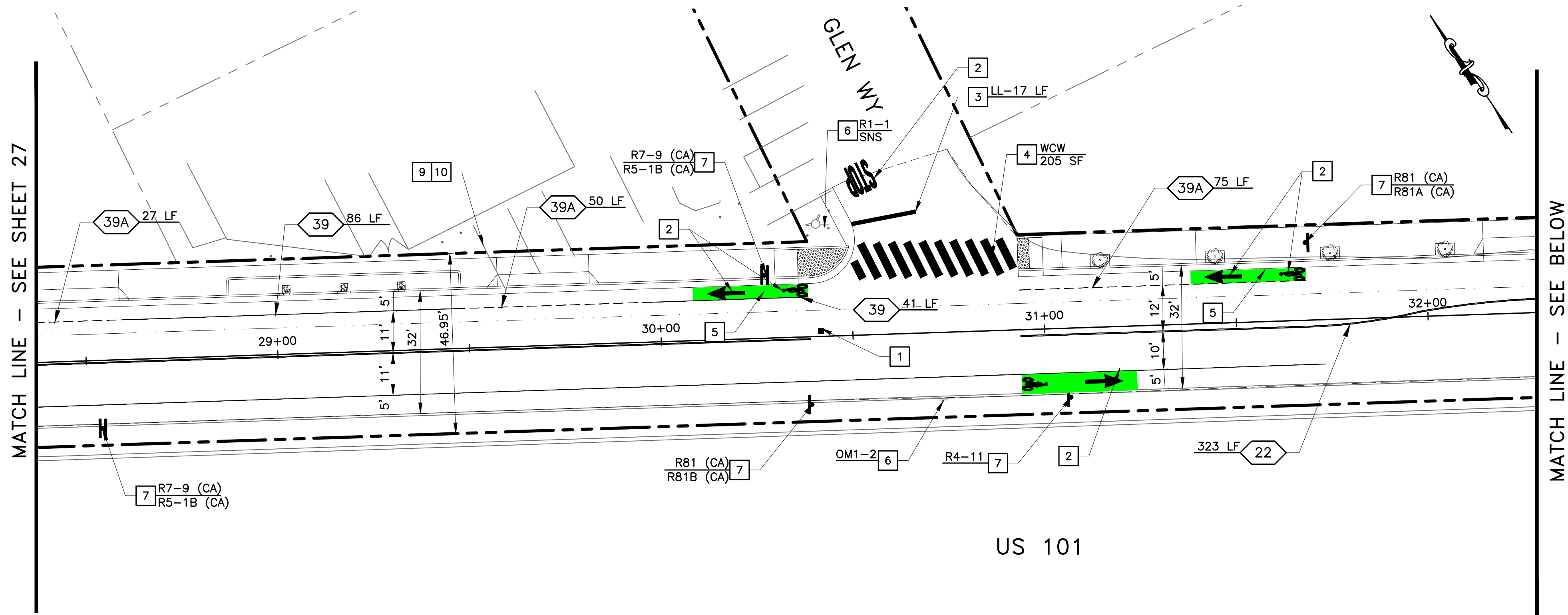


\\SERVER\Clients\DESIGN\24-499-1 EPA E Bayshore Pedestrian & Bicycle Improvements\PLANS-499-1\26-28 STRIPING PLANS-499-1.dwg 05:29:34 PM

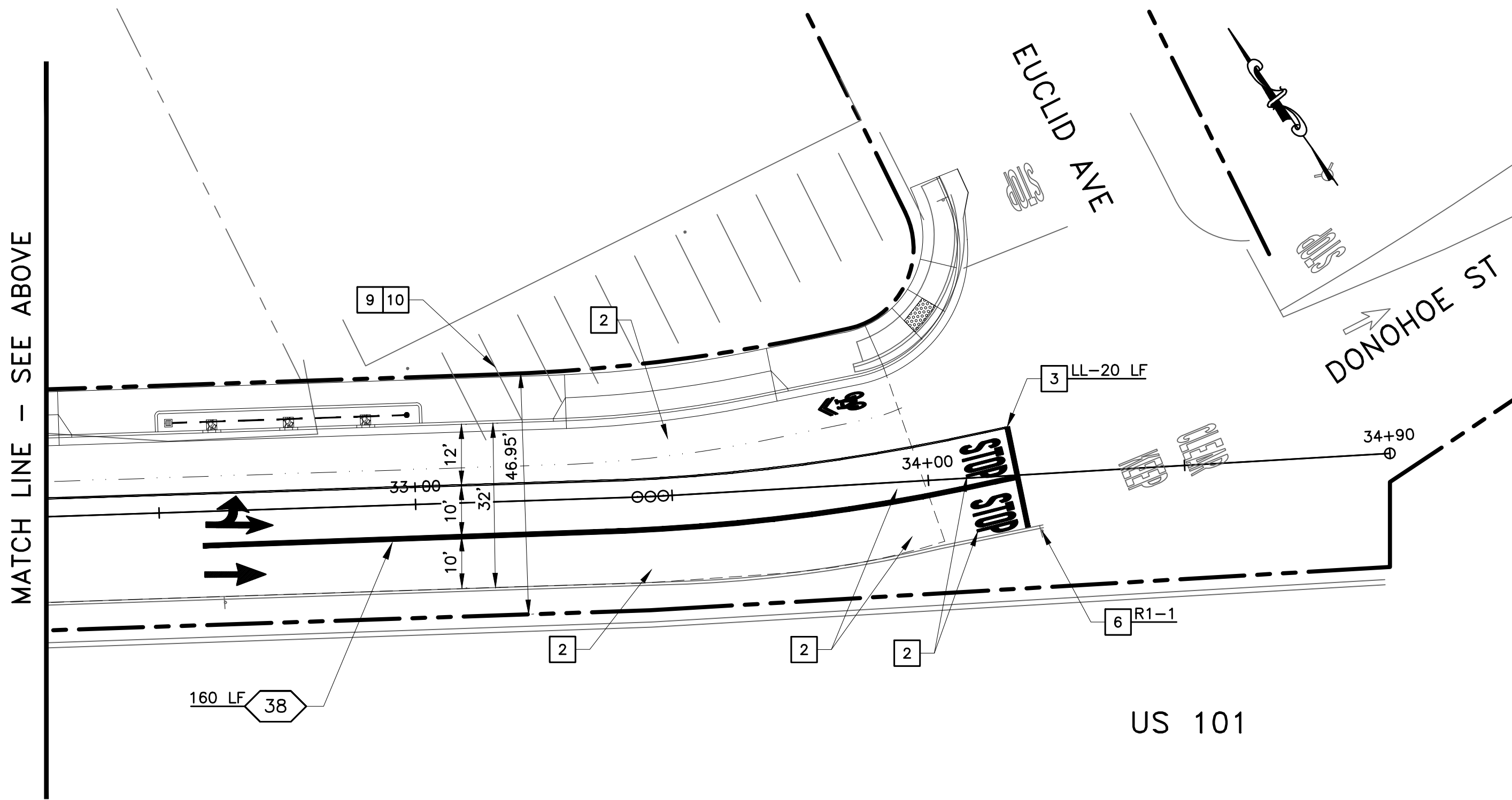


Know what's below.
Call before you dig.

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PLAN
EAST BAYSHORE ROAD
SCALE 1" = 20'



PLAN
EAST BAYSHORE ROAD
SCALE 1" = 20'

LEGEND

- LANE LINE
- 12" LIMIT LINE
- CONTINENTAL CROSSWALK
- PAVEMENT MARKING
- GREEN BIKE LANE
- SHARROW MARKING
- TRAFFIC SIGN - NEW, EXISTING
- BLUE MARKER
- CALTRANS STRIPING DETAIL NO.
- TREE & TREE WELL

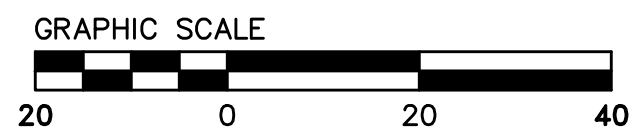


PROJECT NOTES:

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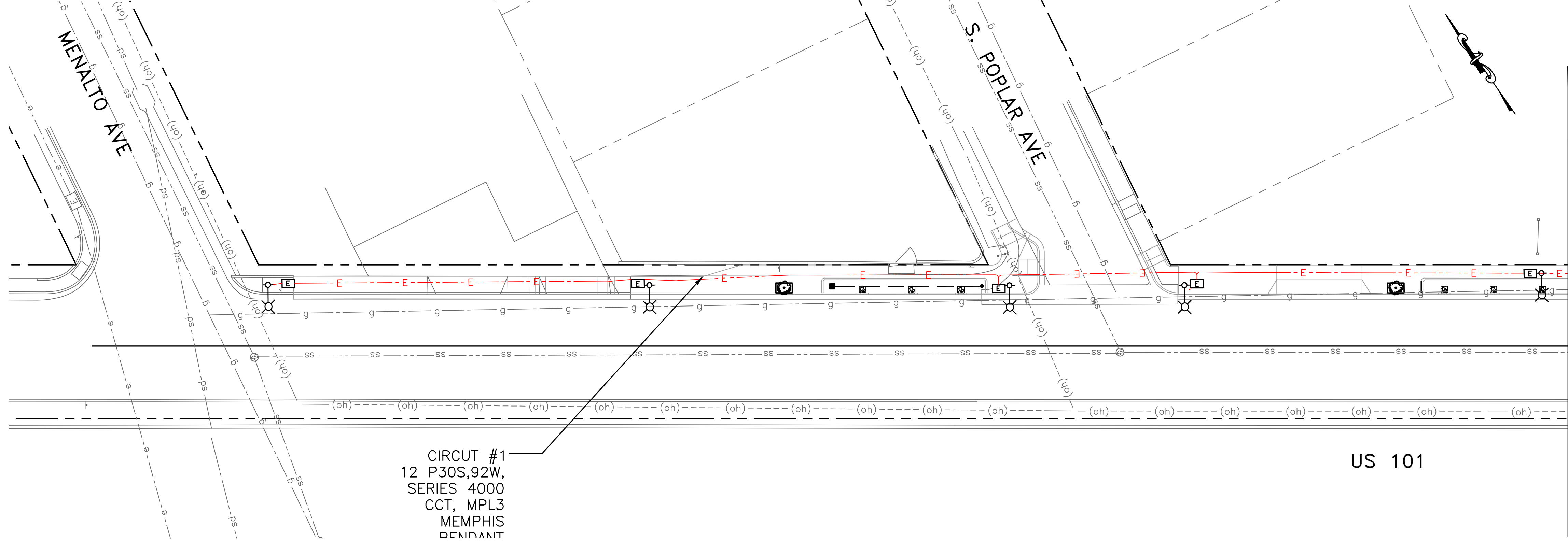


FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

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\\SERVER\clients\DESIGN\24-499-1 EPA E Bayshore Pedestrian & Bicycle Improvements\PLANS-499-1\29-31 ELECTRICAL PLANS-499-1.dwg 05:36:39 PM

MATCH LINE - SEE ABOVE

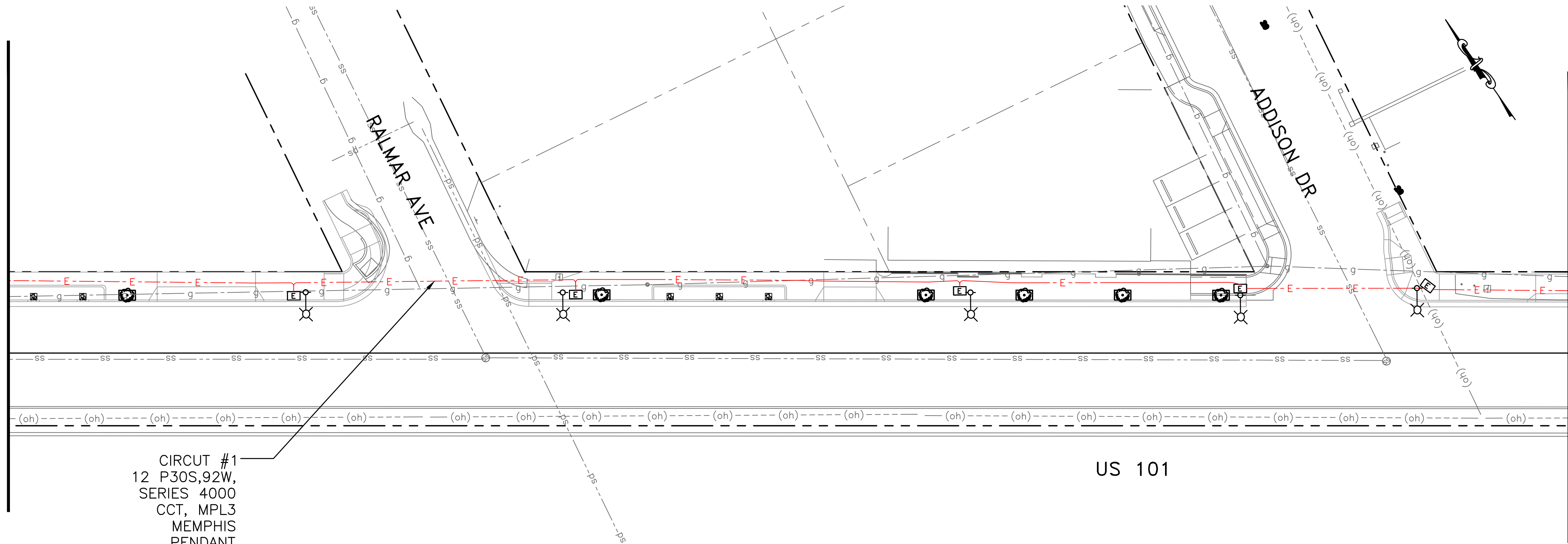


CIRCUIT #1
12 P30S,92W,
SERIES 4000
CCT, MPL3
MEMPHIS
PENDANT

PLAN
EAST BAYSHORE ROAD
SCALE 1" = 20'

US 101

MATCH LINE - SEE BELOW



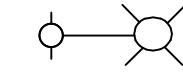
CIRCUIT #1
12 P30S,92W,
SERIES 4000
CCT, MPL3
MEMPHIS
PENDANT

PLAN
EAST BAYSHORE ROAD
SCALE 1" = 20'

US 101

MATCH LINE - SEE SHEET 30

LEGEND



STREET LIGHT (HOLOPHANE MPL3 W/ FOUNDATION)
PER STREET LIGHT DETAIL SHEET 34.



PULL BOX PER CALTRANS STD DETAIL ES-8A, TYPE
NO.5



2"-ELECTRICAL CONDUIT W/ 3-#12 AWG



SERVICE EQUIPMENT ENCLOSURE (TYPE III-AF) PER
CALTRANS STD ES-2D

CONSTRUCTION NOTES:

1. ALL EXISTING EQUIPMENT SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED.
2. POLES AND PULL BOXES SHALL BE LOCATED IN THE PRESENCE OF THE PROJECT INSPECTOR/ENGINEER.
3. INSTALL THE PULL BOX AND CONDUITS, SEAL ALL CONNECTIONS AND OPENINGS TO PREVENT MOISTURE AND WATER ENTRY AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS, AND AS SHOWN ON THE PLANS. SEE DETAIL 6 ON SHEET 34 FOR CONDUIT DETAILS.
4. CONTRACTOR SHALL TEST THE POWER FUNCTIONALITY OF THE NEW WIRING AND RECESSED LIGHTING TO ENSURE PROPER OPERATION.
5. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 811, 48 HOURS PRIOR TO ALL EXCAVATION..
6. ELECTRICAL CONDUITS/WIRES SHALL BE ROUTED TO AVOID BIORETENTION SYSTEM.



Know what's below.
Call before you dig.



FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

Plotted on: 02/24/25 © 05:36:39 PM

NO.	REVISIONS	DATE

DESIGNED BY:
HA/16/RG
DRAWN BY:
HA/16/RG

PREPARED BY:
CSG CONSULTANTS
550 PILGRIM DRIVE
FOSTER CITY, CA 94404
PHONE (650)522-2500
FAX (650)522-2599

ELECTRICAL PLAN
EAST BAYSHORE ROAD
PEDESTRIAN AND CYCLIST SAFETY
IMPROVEMENTS PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

TITLE:

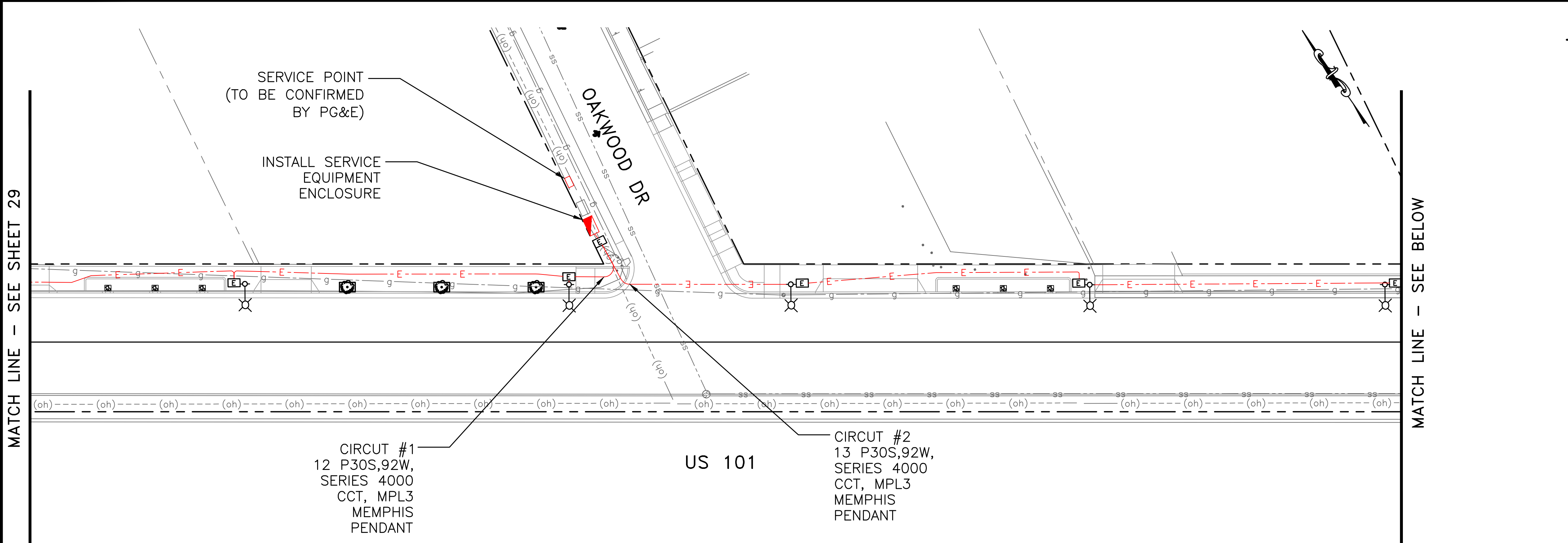
SHEET 29
OF
35

DATE: 11/22/2024
JOB NO.:

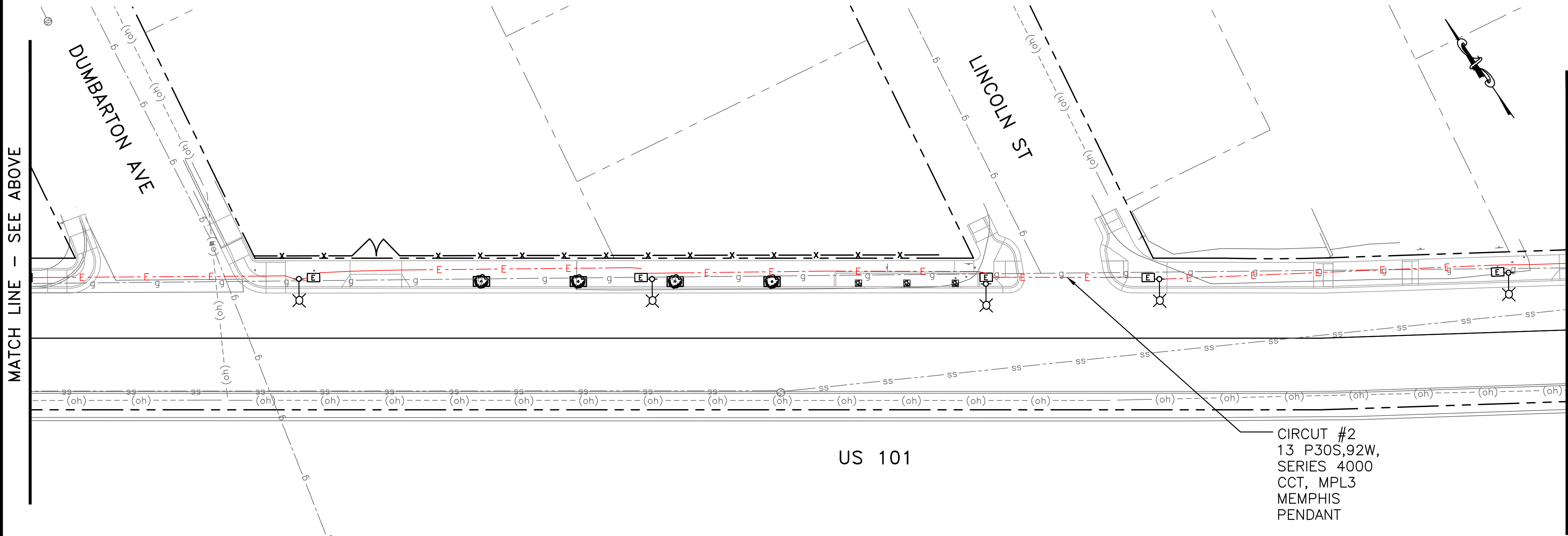
CIP ST-28



\\SERVER\clients\DESIGN\24-499-1 EPA E Bayshore Pedestrian & Bicycle Improvements\PLANS-499-1\29-31 ELECTRICAL PLANS-499-1.dwg 05:37:39 PM



PLAN
EAST BAYSHORE ROAD
SCALE 1" = 20'



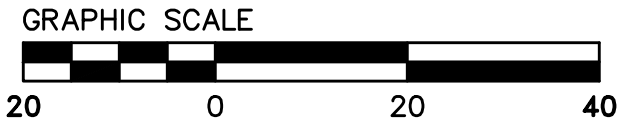
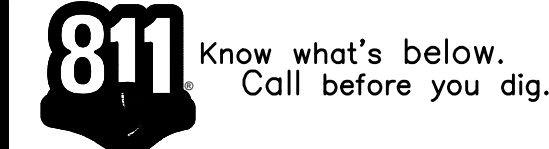
PLAN
EAST BAYSHORE ROAD
SCALE 1" = 20'

LEGEND

- STREET LIGHT (HOLOPHANE MPL3 W/ FOUNDATION) PER STREET LIGHT DETAIL SHEET 34.
- PULL BOX PER CALTRANS STD DETAIL ES-8A, TYPE NO.5
- 2"-ELECTRICAL CONDUIT W/ 3-#12 AWG
- SERVICE EQUIPMENT ENCLOSURE (TYPE III-AF) PER CALTRANS STD ES-2D

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DESIGNED BY: HA/JG/RG		NO.	REVISIONS	DATE
DRAWN BY: HA/JG/RG				
CSG CONSULTANTS 550 PILGRIM DRIVE FOSTER CITY, CA 94404 PHONE (650)522-2500 FAX (650)522-2599				
PREPARED BY: 				
ELECTRICAL PLAN EAST BAYSHORE ROAD PEDESTRIAN AND CYCLIST SAFETY IMPROVEMENTS PROJECT CITY OF EAST PALO ALTO, CALIFORNIA				
TITLE: SHEET 30 OF 35				
DATE: 11/22/2024 JOB NO.: CIP ST-28				

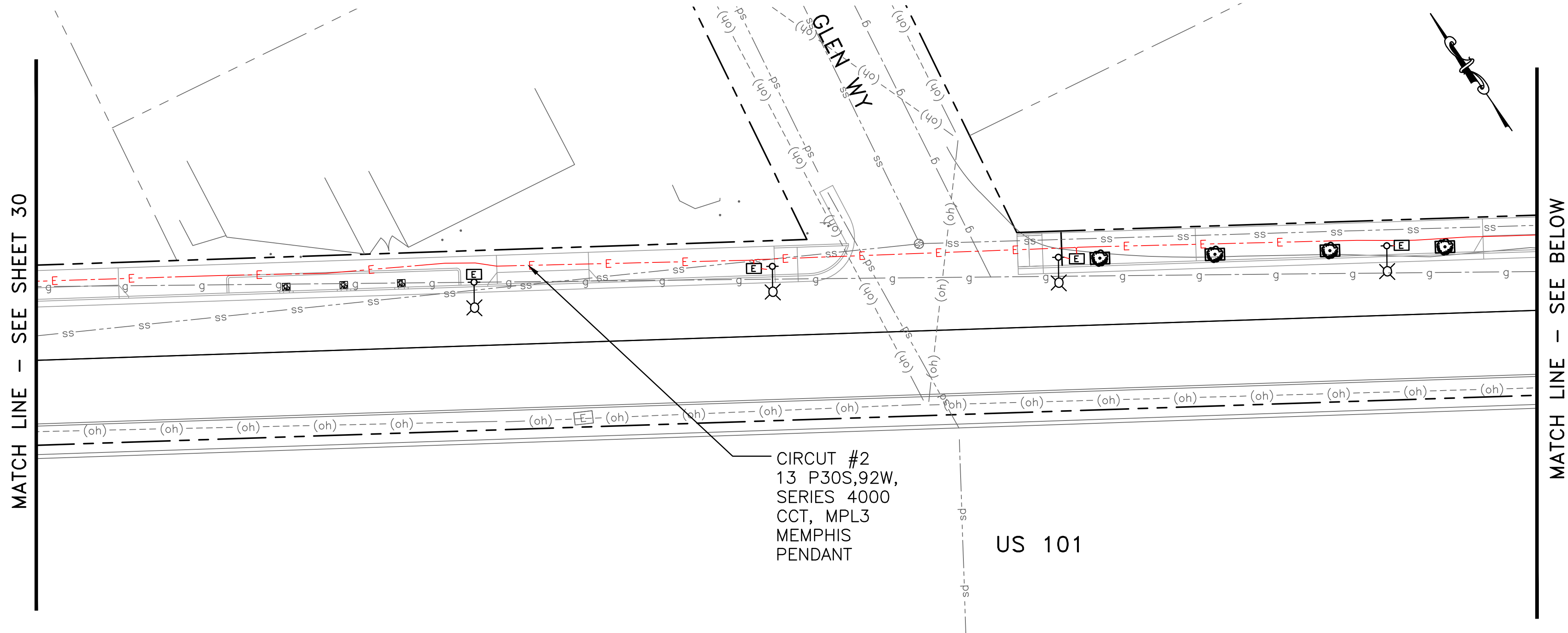
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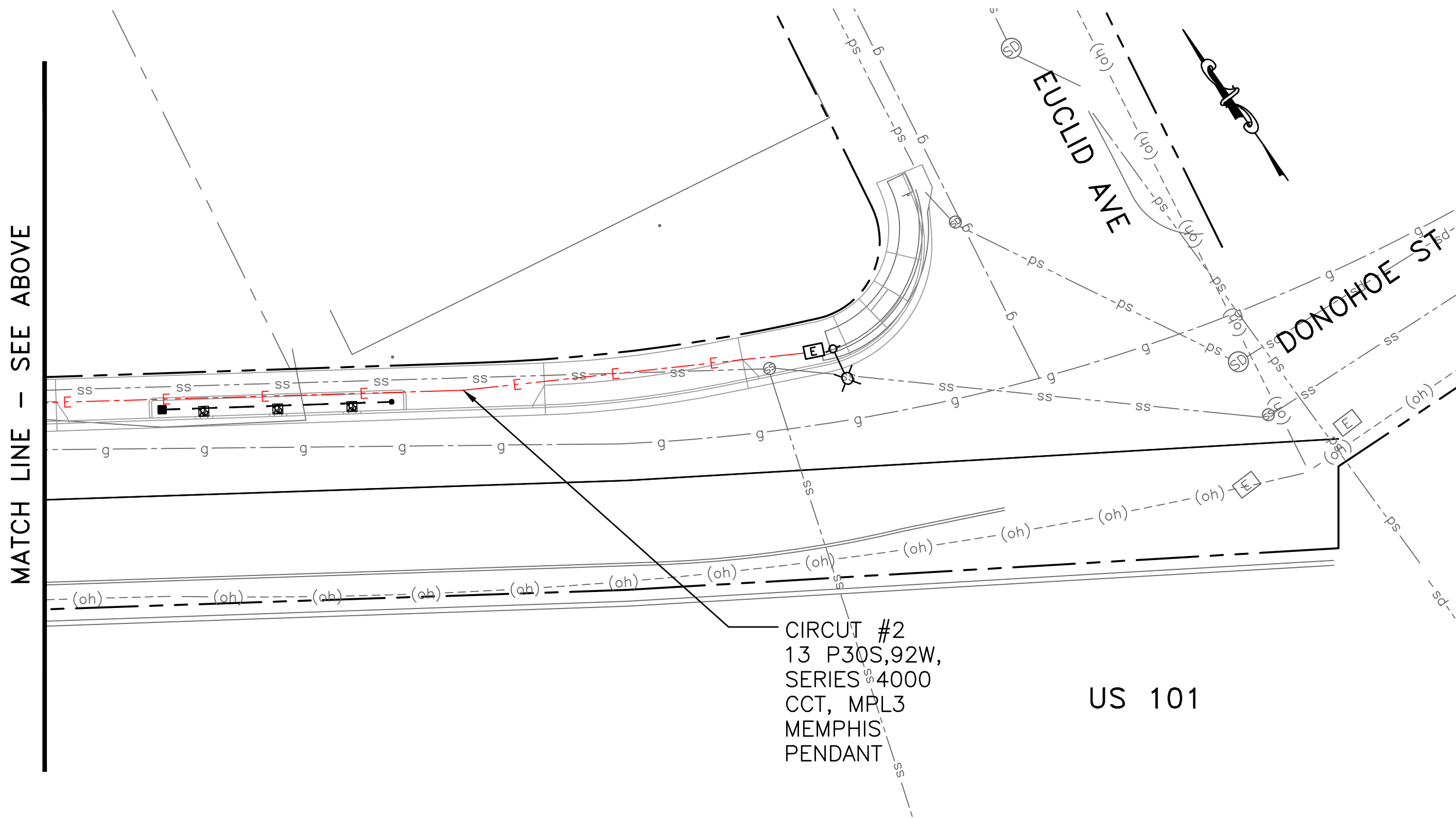
Know what's below.
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FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

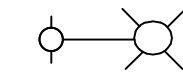


PLAN
EAST BAYSHORE ROAD
SCALE 1" = 20'



PLAN
EAST BAYSHORE ROAD
SCALE 1" = 20'

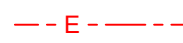
LEGEND



STREET LIGHT (HOLOPHANE MPL3 W/ FOUNDATION)
PER STREET LIGHT DETAIL SHEET 34.



PULL BOX PER CALTRANS STD DETAIL ES-8A, TYPE
NO.5



2"-ELECTRICAL CONDUIT W/ 3-#12 AWG



SERVICE EQUIPMENT ENCLOSURE (TYPE III-AF) PER
CALTRANS STD ES-2D

CONSTRUCTION NOTES:

1. ALL EXISTING EQUIPMENT SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED.
2. POLES AND PULL BOXES SHALL BE LOCATED IN THE PRESENCE OF THE PROJECT INSPECTOR/ENGINEER.
3. INSTALL THE PULL BOX AND CONDUITS, SEAL ALL CONNECTIONS AND OPENINGS TO PREVENT MOISTURE AND WATER ENTRY AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS, AND AS SHOWN ON THE PLANS. SEE DETAIL 6 ON SHEET 34 FOR CONDUIT DETAILS.
4. CONTRACTOR SHALL TEST THE POWER FUNCTIONALITY OF THE NEW WIRING AND RECESSED LIGHTING TO ENSURE PROPER OPERATION.
5. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 811, 48 HOURS PRIOR TO ALL EXCAVATION..
6. ELECTRICAL CONDUITS/WIRES SHALL BE ROUTED TO AVOID BIORETENTION SYSTEM.

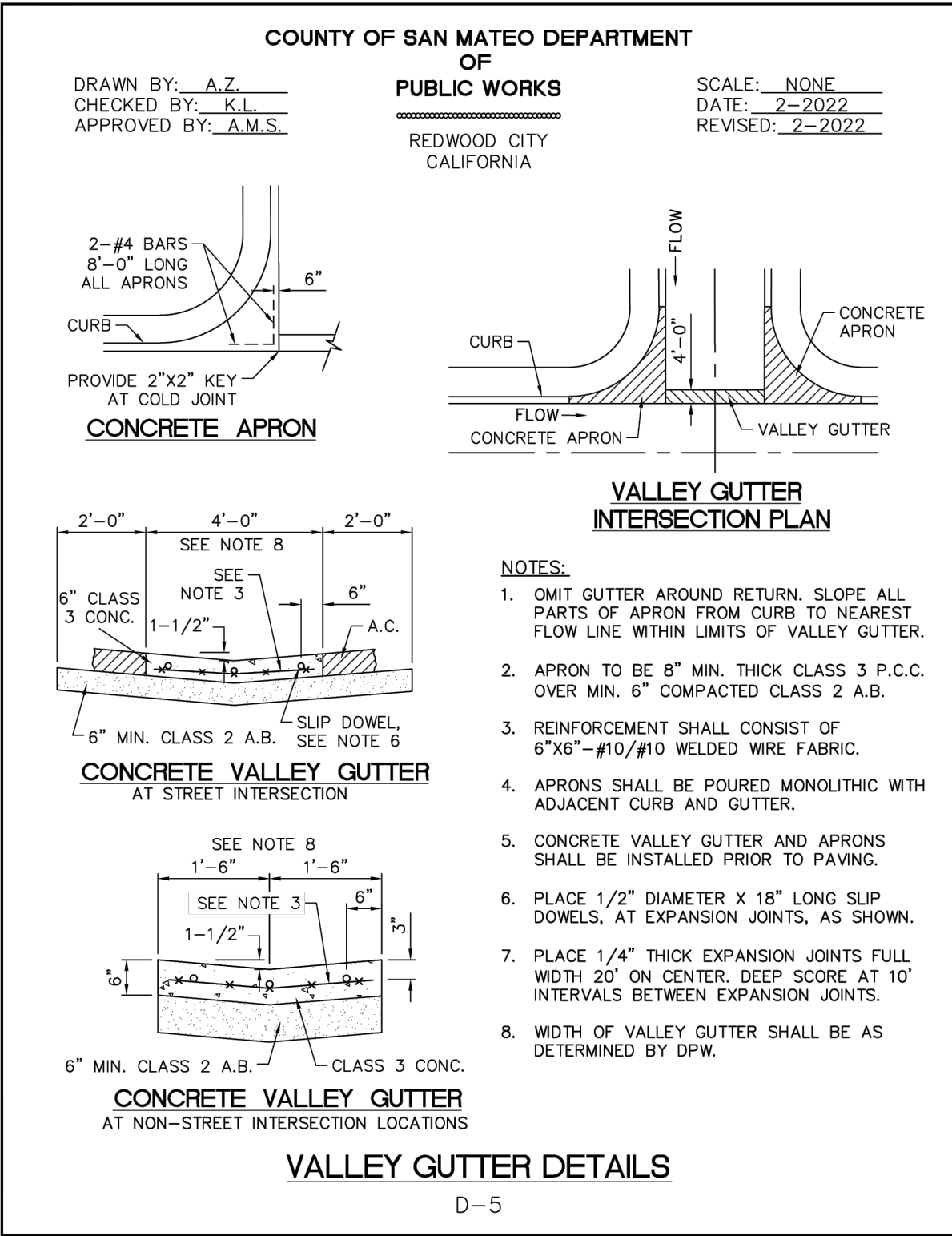
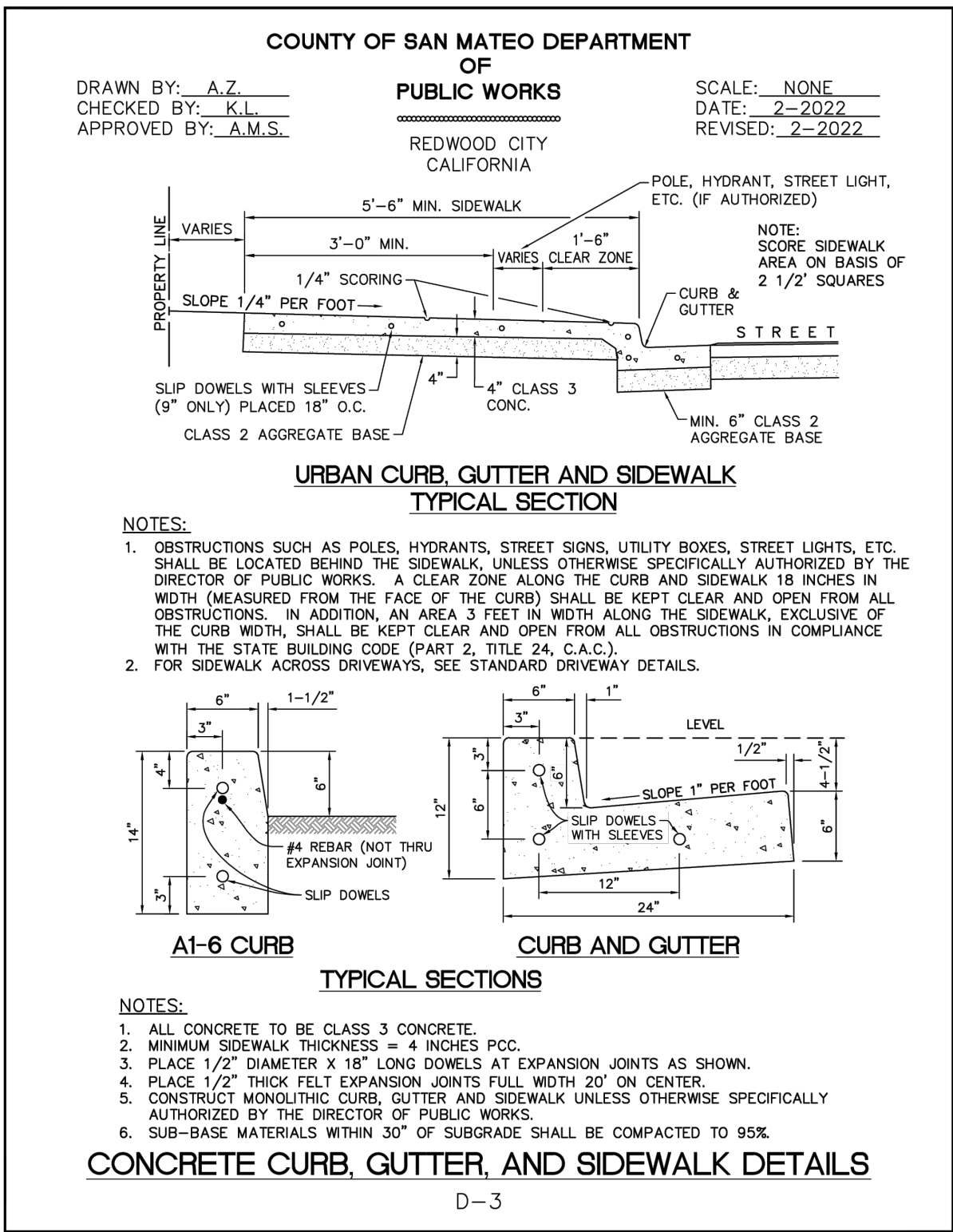
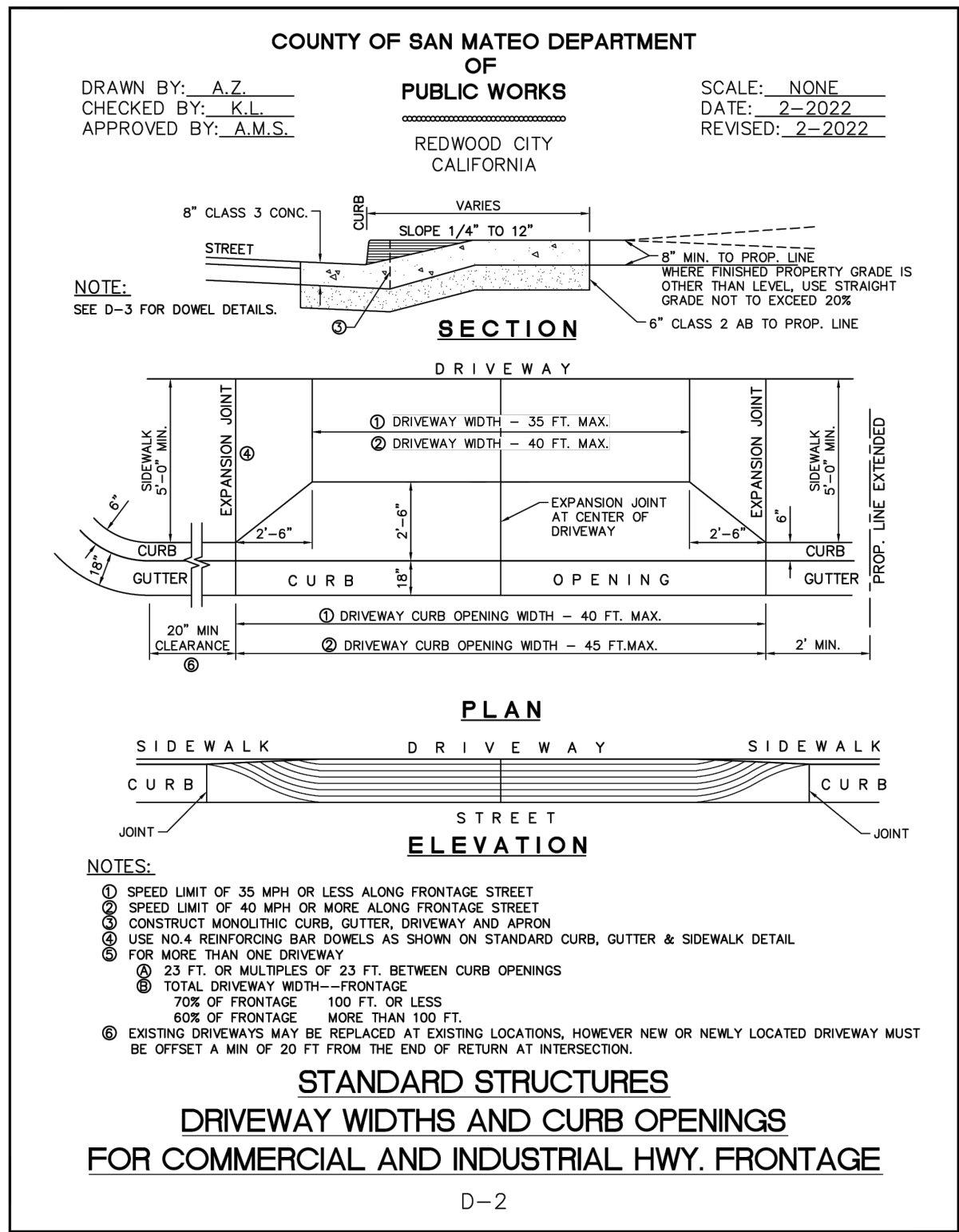
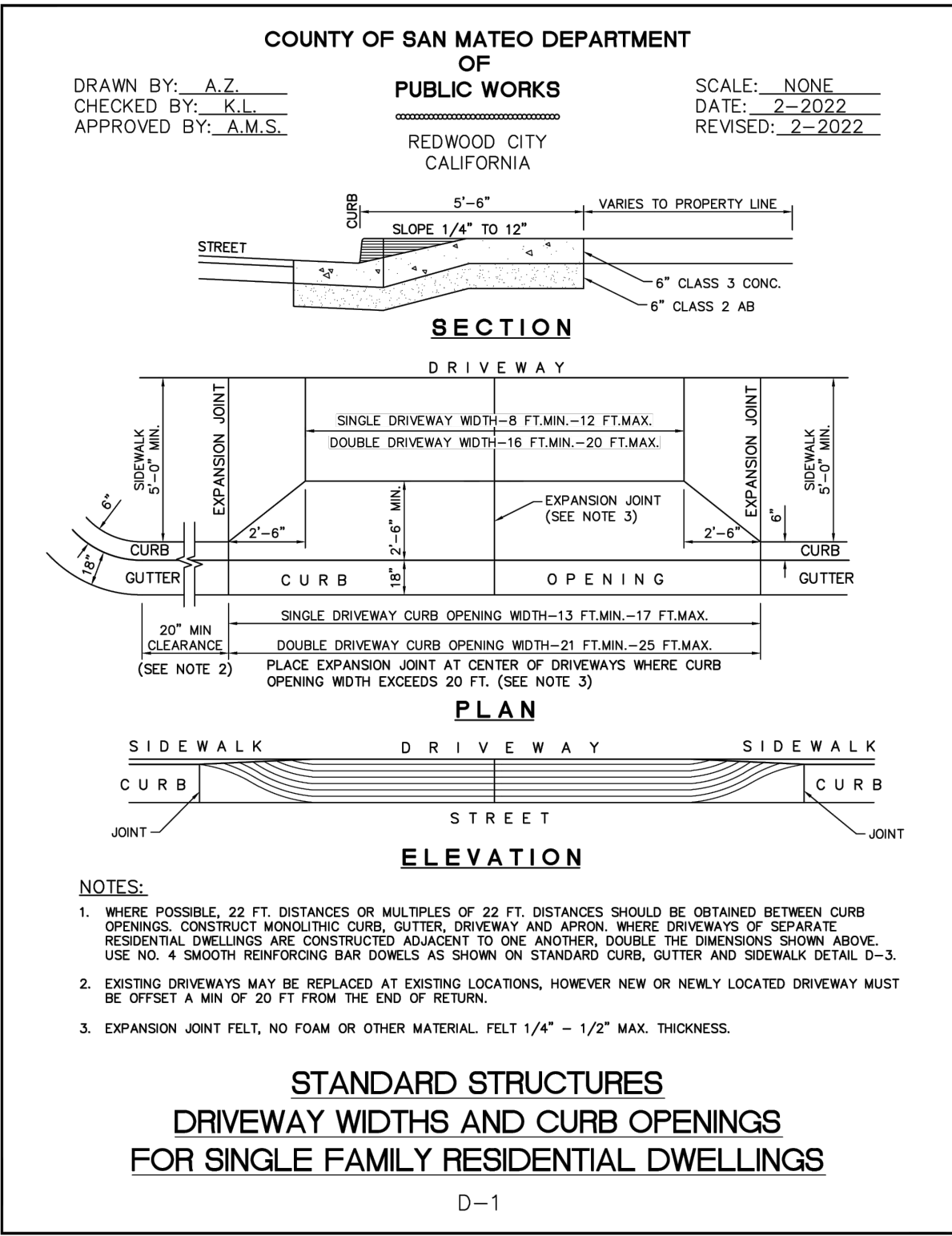
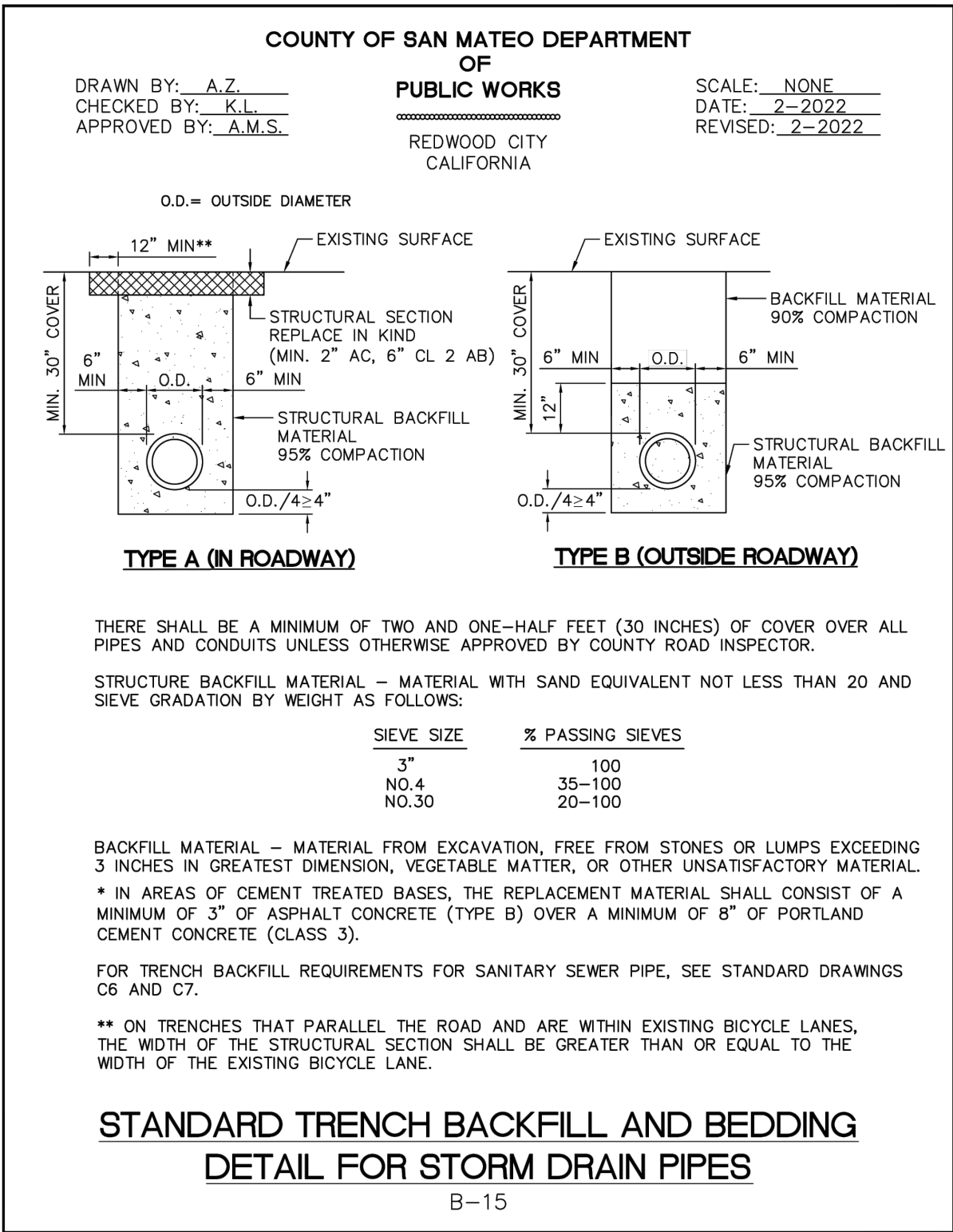
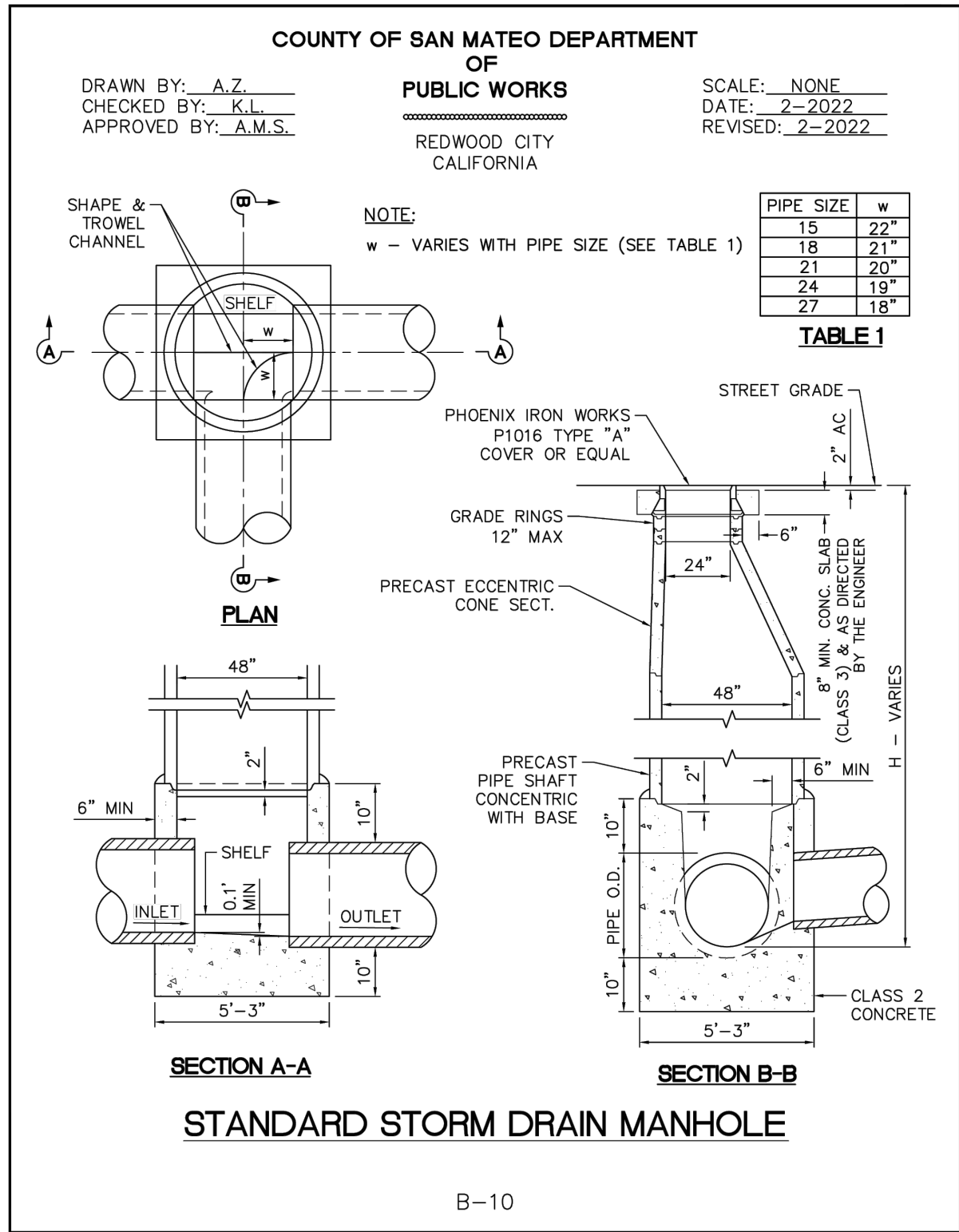
DESIGNED BY: HA/JG/RG	NO.	REVISIONS	DATE
DRAWN BY: HA/JG/RG			
CSG CONSULTANTS 550 PILGRIM DRIVE FOSTER CITY, CA 94404 PHONE (650)522-2500 FAX (650)522-2599			
PREPARED BY: 			
ELECTRICAL PLAN EAST BAYSHORE ROAD PEDESTRIAN AND CYCLIST SAFETY IMPROVEMENTS PROJECT CITY OF EAST PALO ALTO, CALIFORNIA			
TITLE: SHEET 31 OF 35			
DATE: 11/22/2024 JOB NO.: CIP ST-28			

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NO.	REVISIONS	DATE

DESIGNED BY: HA/JG/RG
CHECKED BY: HA/JG/RG
DRAWN BY: HA/JG/RG

PREPARED BY: CSG CONSULTANTS
550 BILGRIM DRIVE
FOSTER CITY, CA 94404
PHONE (650)522-2500
FAX (650)522-2599

TITLE: CONSTRUCTION DETAILS
EAST BAYSHORE ROAD
PEDESTRIAN AND BICYCLIST SAFETY
IMPROVEMENTS PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 32
OF
35

DATE: 11/22/2024
JOB NO.:
CIP ST-28



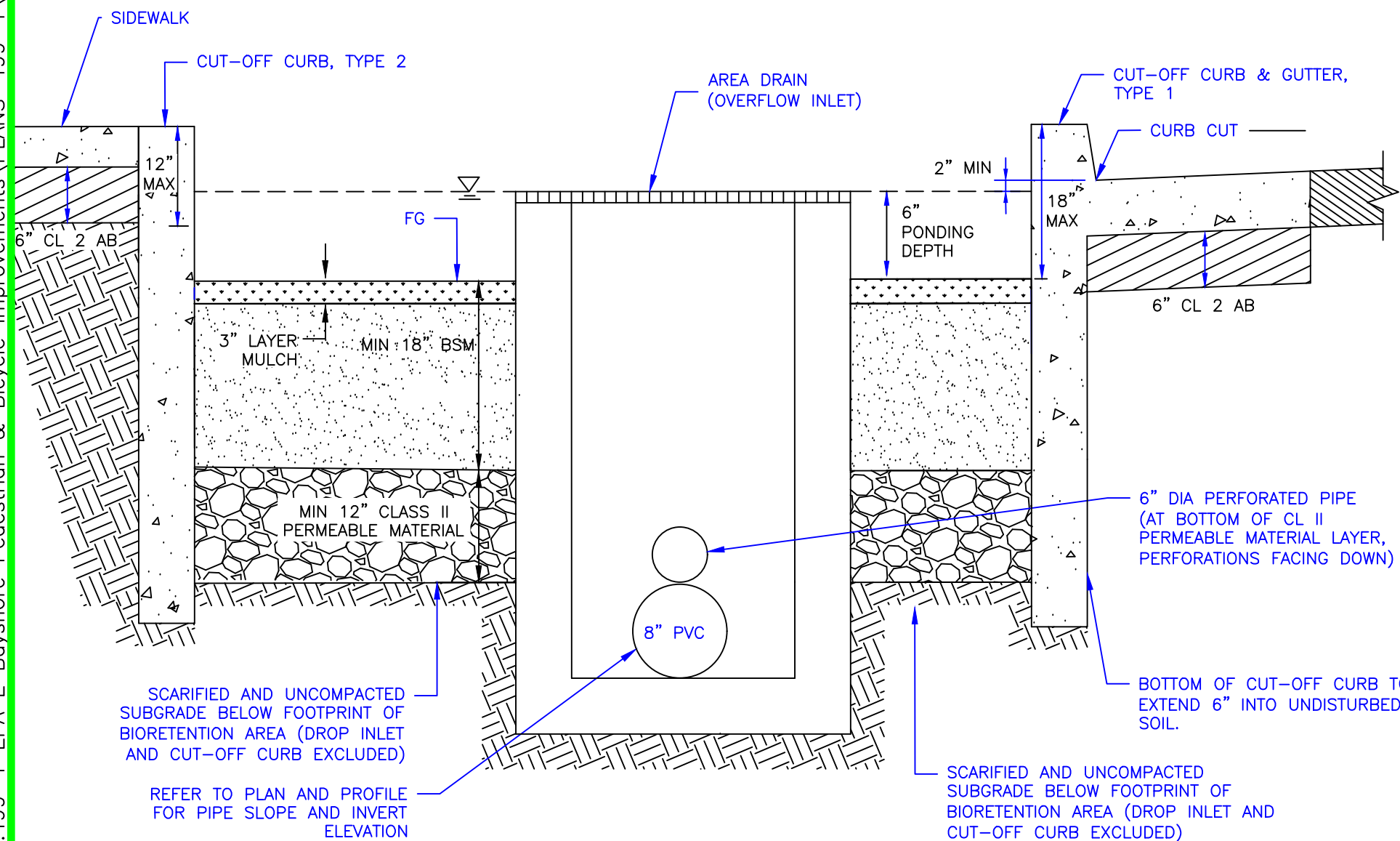
FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES



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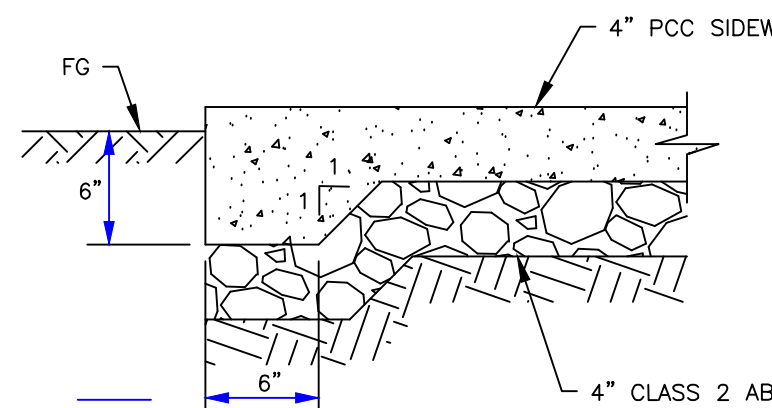


Know what's below.
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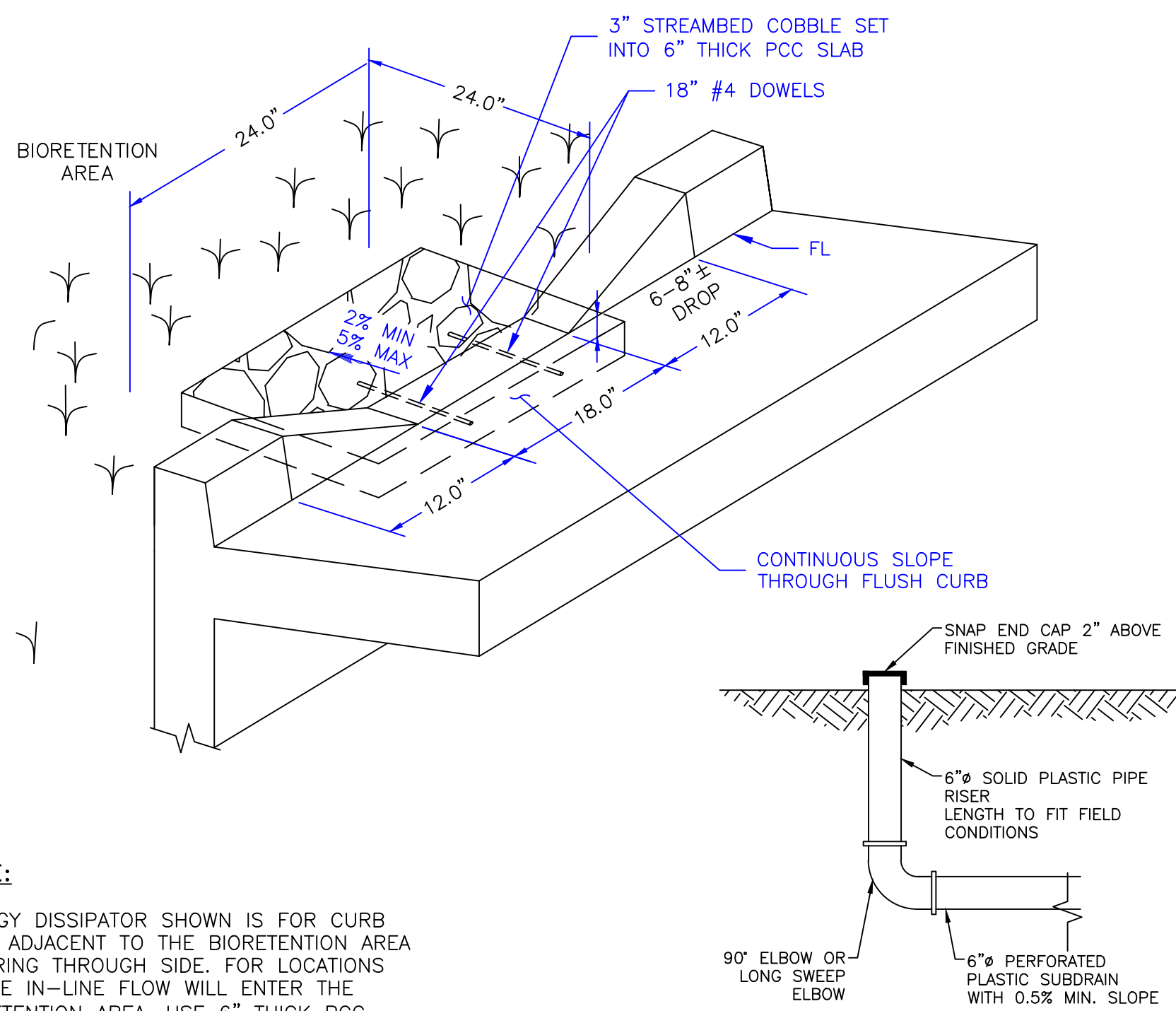
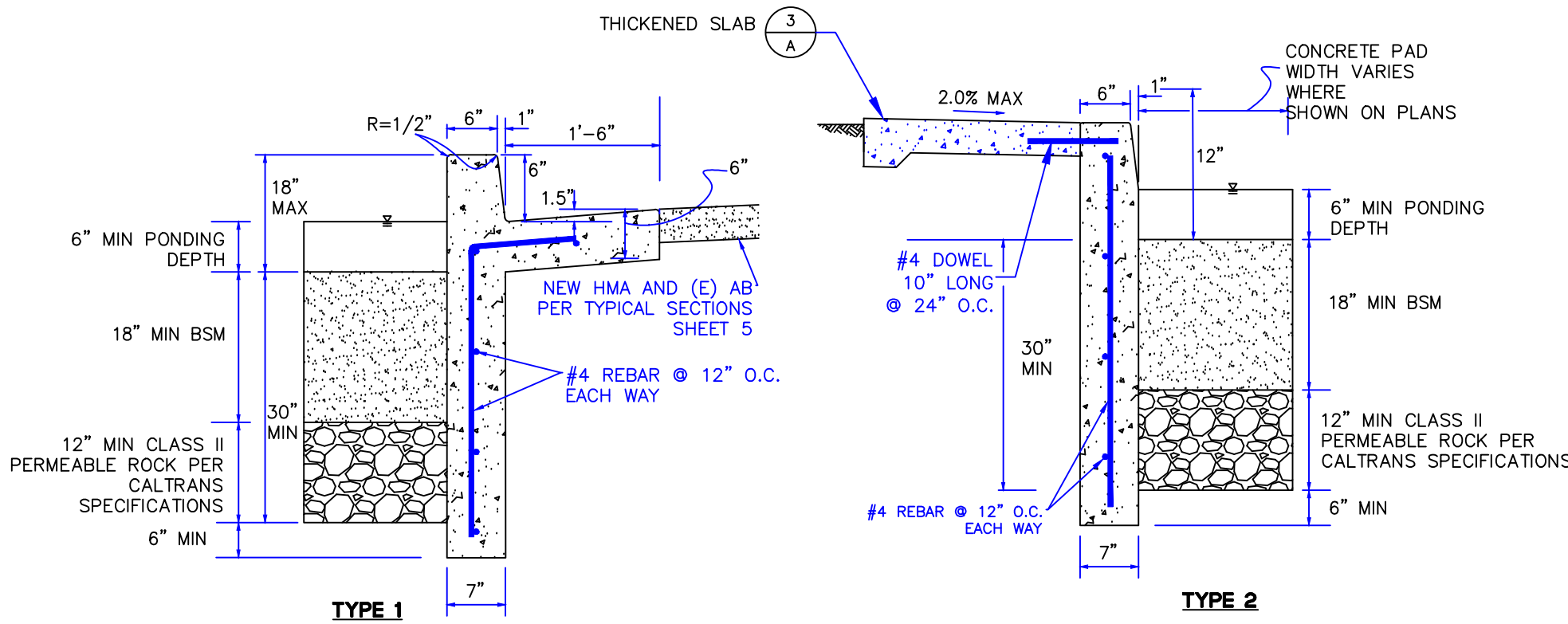


2 BIORETENTION AREA TYPICAL SECTION
NO SCALE

3 CUT OFF CURB, TYPE 1 & TYPE 2
NO SCALE



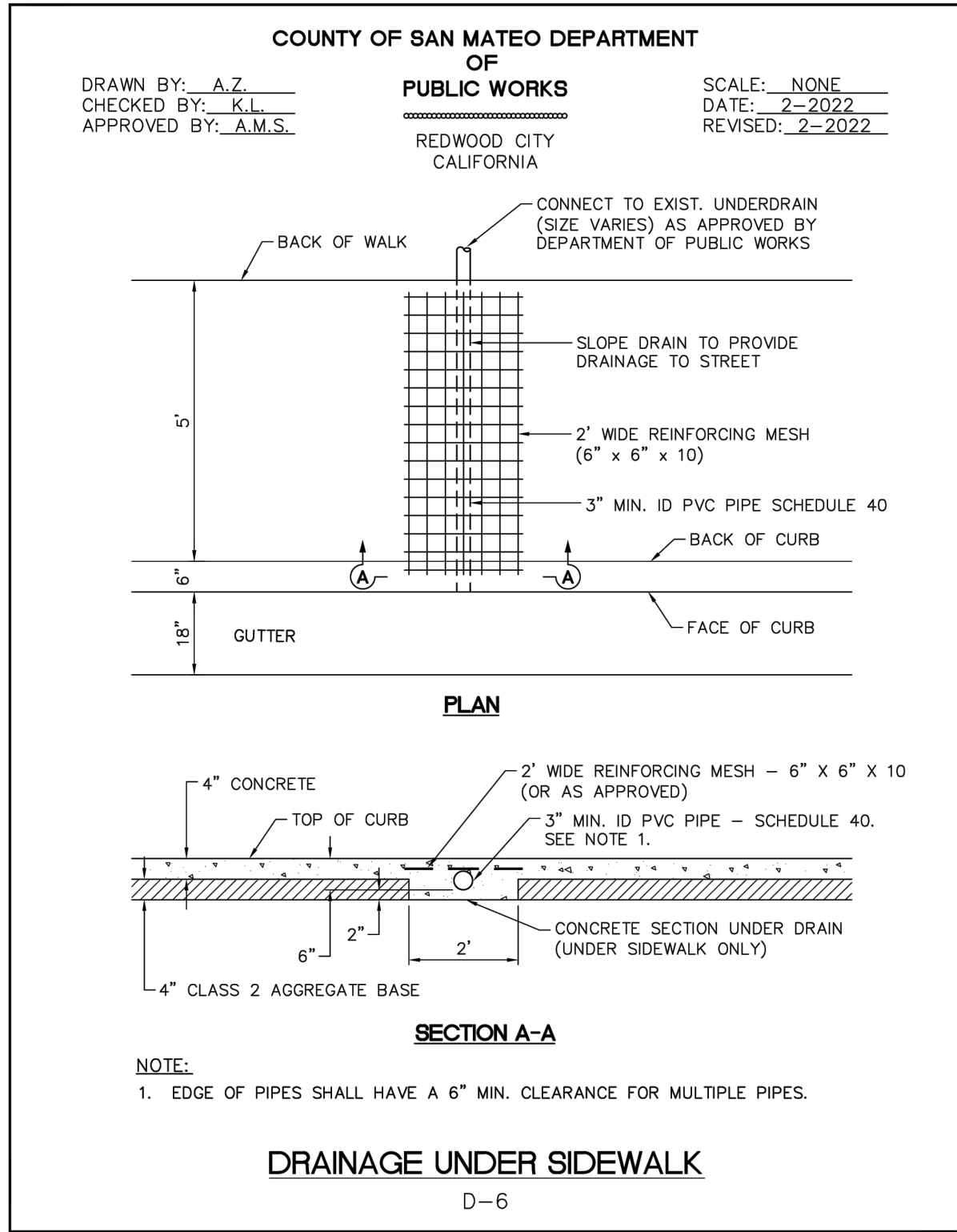
3 THICKENED SLAB DETAIL
NO SCALE



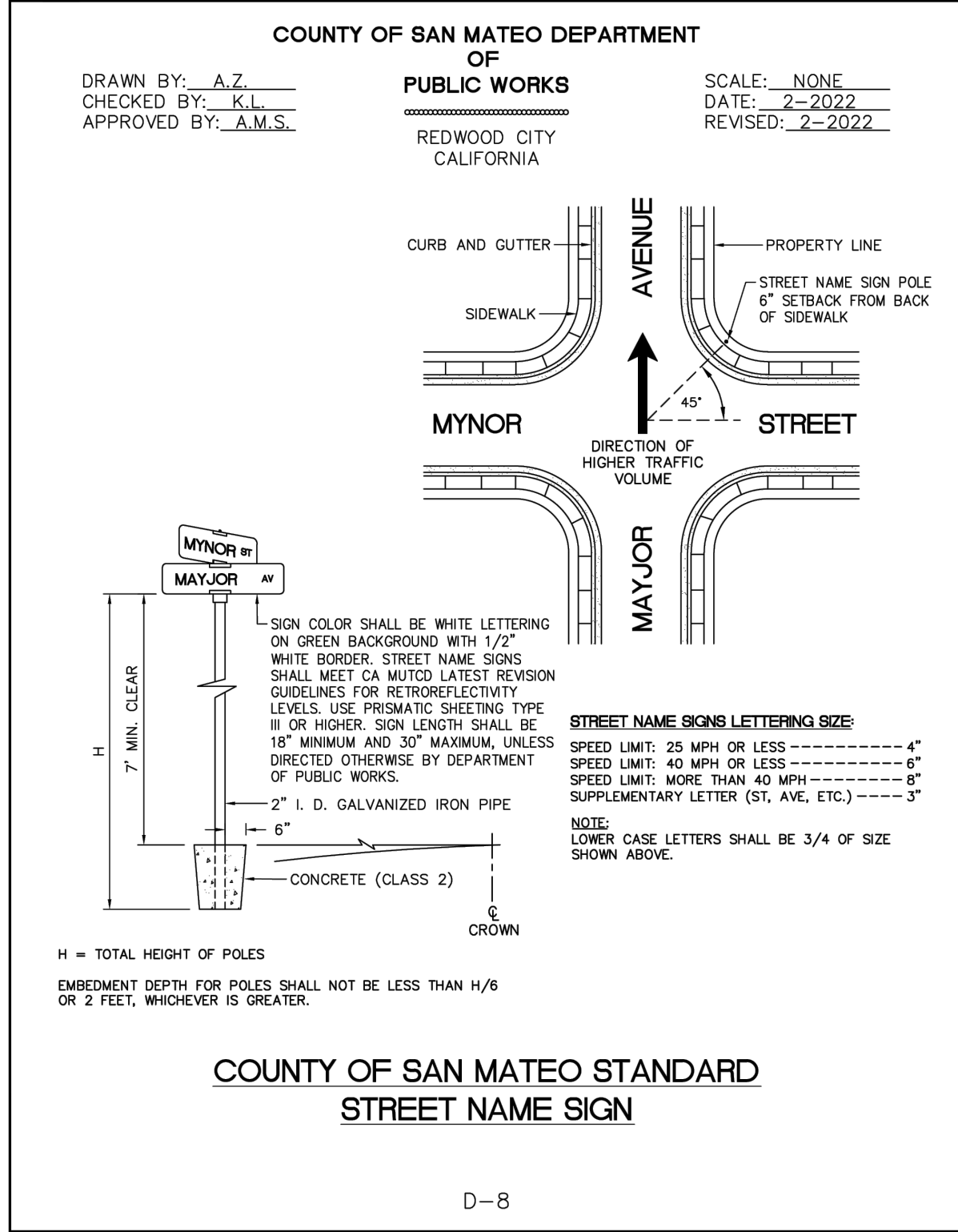
NOTE:
ENERGY DISSIPATOR SHOWN IS FOR CURB CUTS ADJACENT TO THE BIORETENTION AREA ENTERING THROUGH SIDE. FOR LOCATIONS WHERE IN-LINE FLOW WILL ENTER THE BIORETENTION AREA, USE 6" THICK PCC SLAB SEDIMENT FOREBAY.

4 CURB CUT DETAIL
NO SCALE

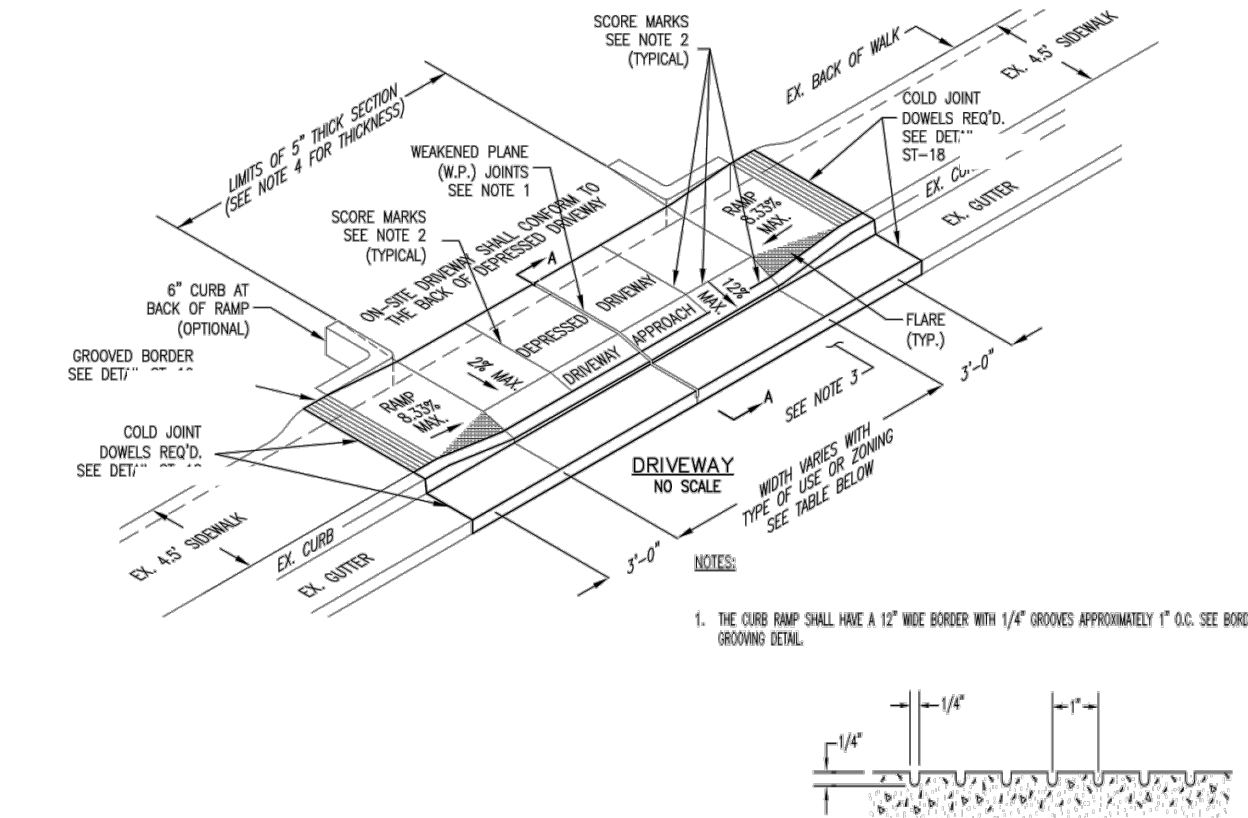
5 CLEANOUT DETAIL
NO SCALE



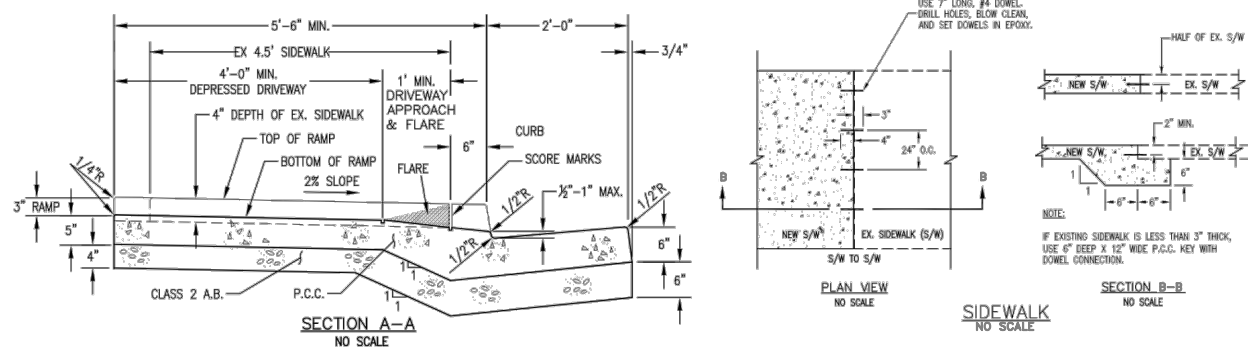
DRAINAGE UNDER SIDEWALK



COUNTRY OF SAN MATEO STANDARD
STREET NAME SIGN



- NOTES:
- W.P. JOINTS REQUIRED ON CENTERLINE FOR DRIVEWAYS 12' TO 20' WIDE. DRIVEWAYS 24' TO 30' WIDE SHALL HAVE 2 W.P. JOINTS EVENLY SPACED (AT 1/3 AND 2/3 POINTS).
 - PLACE SCORE MARKS AT 1/4 POINTS ON DRIVEWAYS 12' TO 20' WIDE AND AT 1/6 POINTS ON DRIVEWAYS 24' TO 30' WIDE.
 - 18" WIDE BAND OF PAVEMENT SHALL BE REMOVED AND REPLACED. SEE NOTE 5 OF GENERAL NOTES (APPENDIX) FOR REQUIREMENTS.
 - DEPRESSED DRIVEWAY, DRIVEWAY APPROACH, GROOVED BORDERS, AND RAMPS SHALL HAVE A THICKNESS OF 5" P.C.C. OVER 4" A.B. GROOVED BORDERS, RAMPS, DEPRESSED DRIVEWAY, DRIVEWAY APPROACH, CURB AND GUTTER SHALL BE MONOLITHIC.
 - IF THE EXISTING ON-SITE IMPROVEMENTS DO NOT MATCH THE GRADE OF THE NEW DRIVEWAY, SUFFICIENT EXISTING IMPROVEMENTS SHALL BE RECONSTRUCTED TO PRODUCE A SMOOTH, USABLE SURFACE WITH A CHANGE IN GRADE NOT EXCEEDING 10%.



1 DEPRESSED DRIVEWAY
NO SCALE

DESIGNED BY:
HA/JG/RG
DRAWN BY:
HA/JG/RG

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FOSTER CITY, CA 94404
PHONE (650)522-2500
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PREPARED BY:

CONSTRUCTION DETAILS
EAST BAYSHORE ROAD
PEDESTRIAN AND CYCLIST SAFETY
IMPROVEMENTS PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

TITLE:

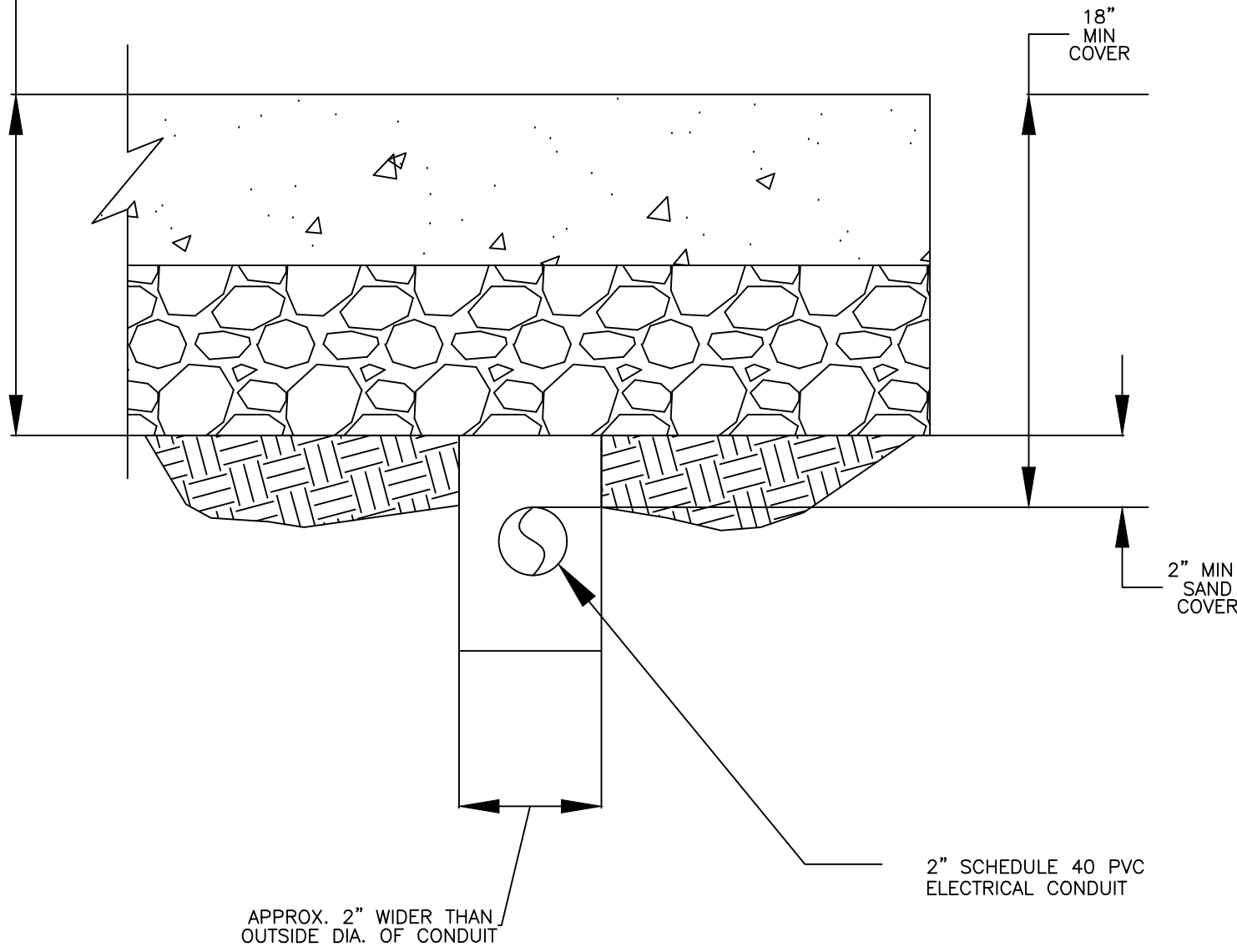
SHEET 33
OF
35

DATE: 11/22/2024
JOB NO.:
CIP ST-28

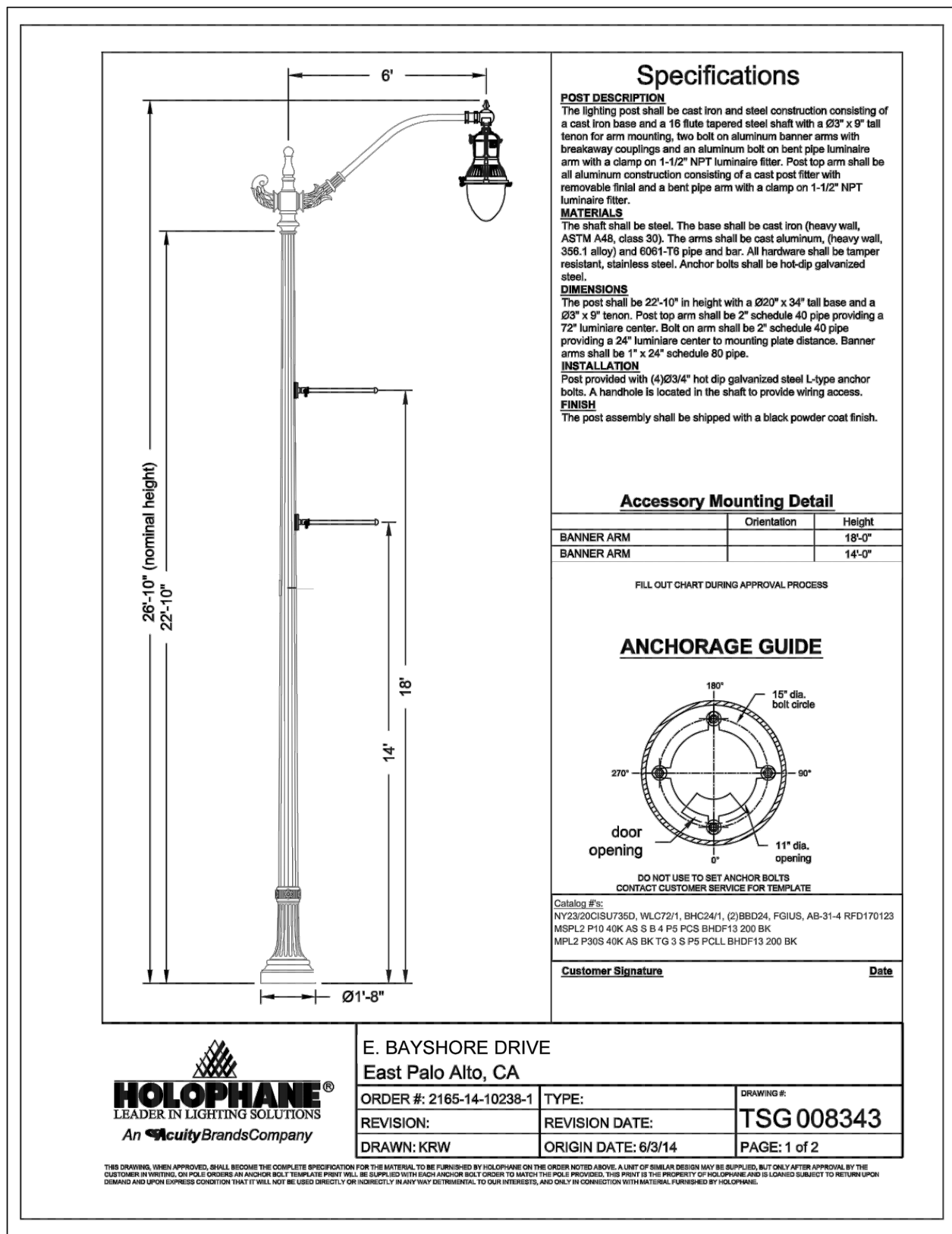


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CONCRETE SIDEWALK
AND BASE PER COUNTY
STANDARD DETAIL D-3



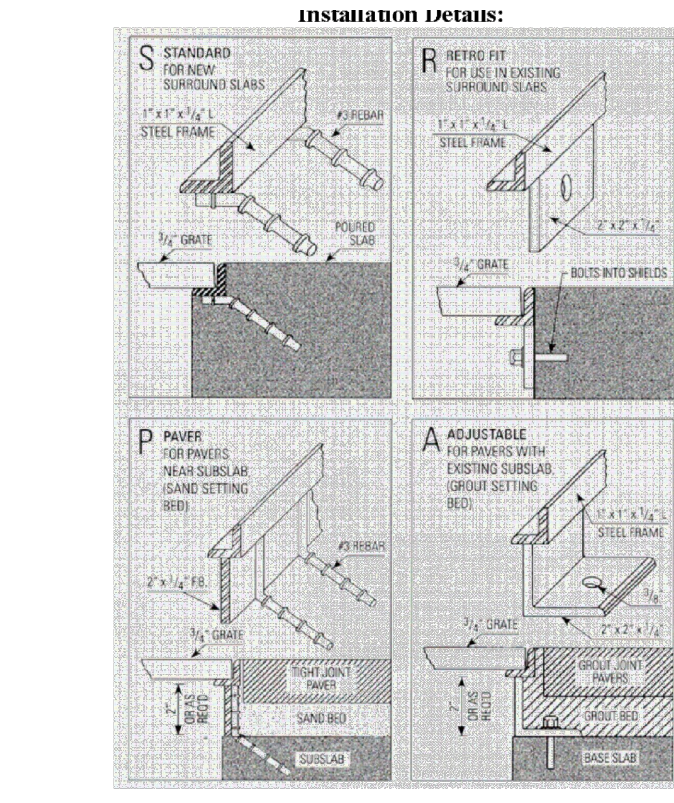
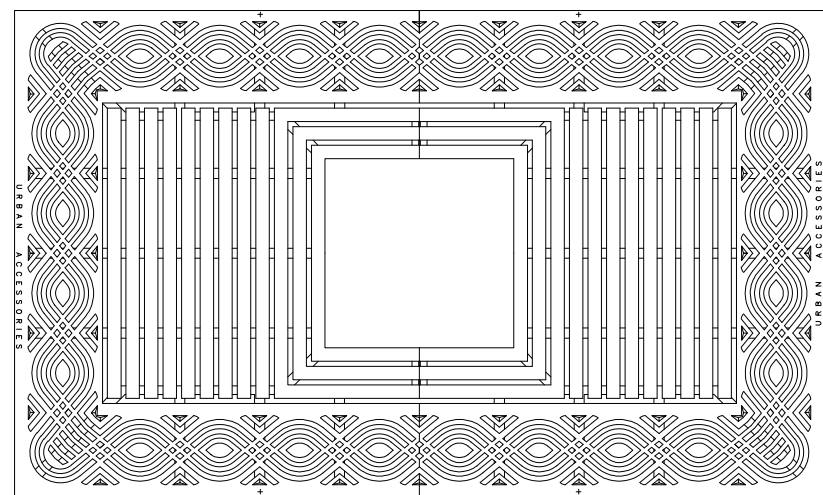
6 2" ELECTRICAL CONDUIT DETAIL
NO SCALE



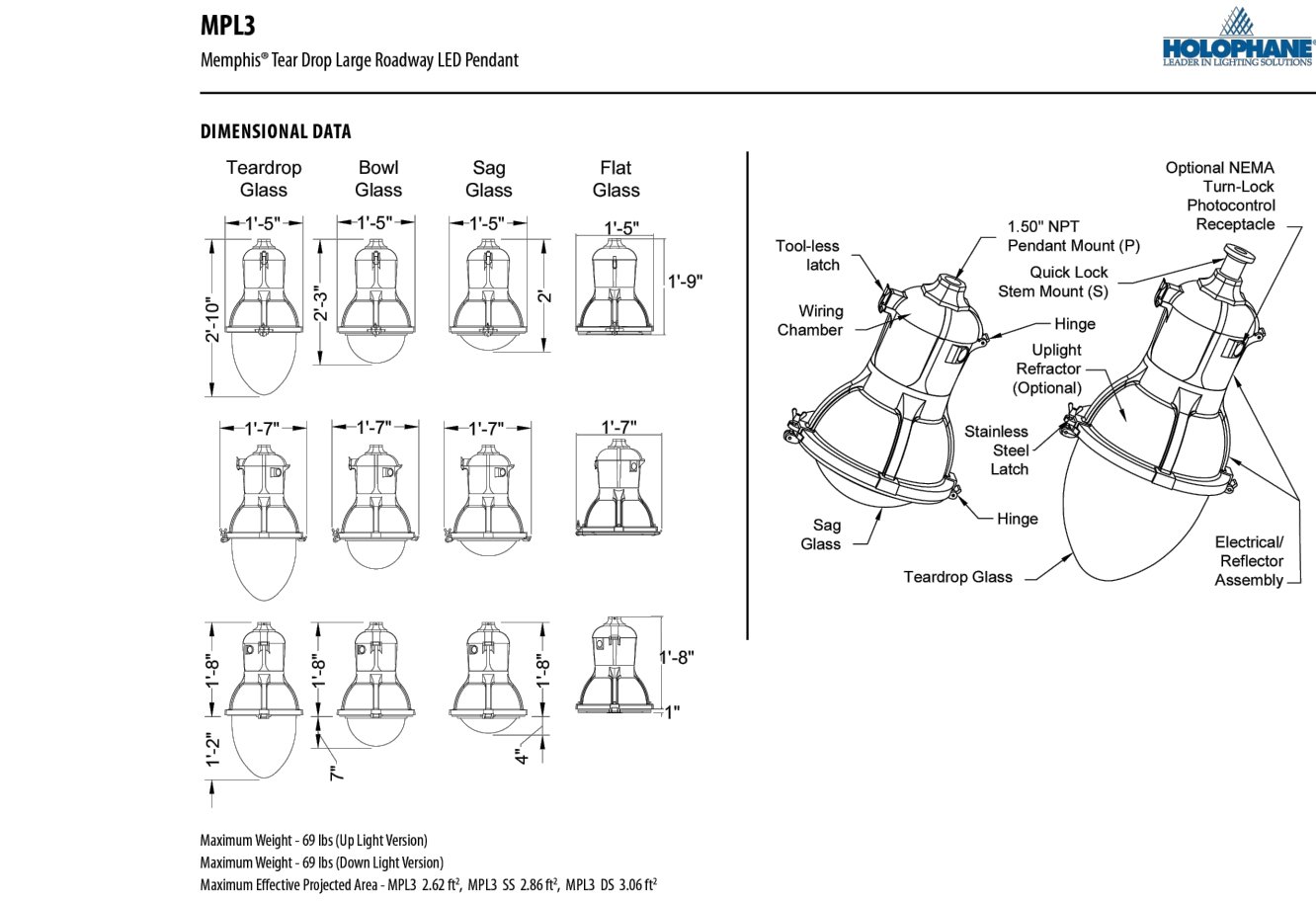
8 HOLOPHANE LIGHT POLE
NO SCALE



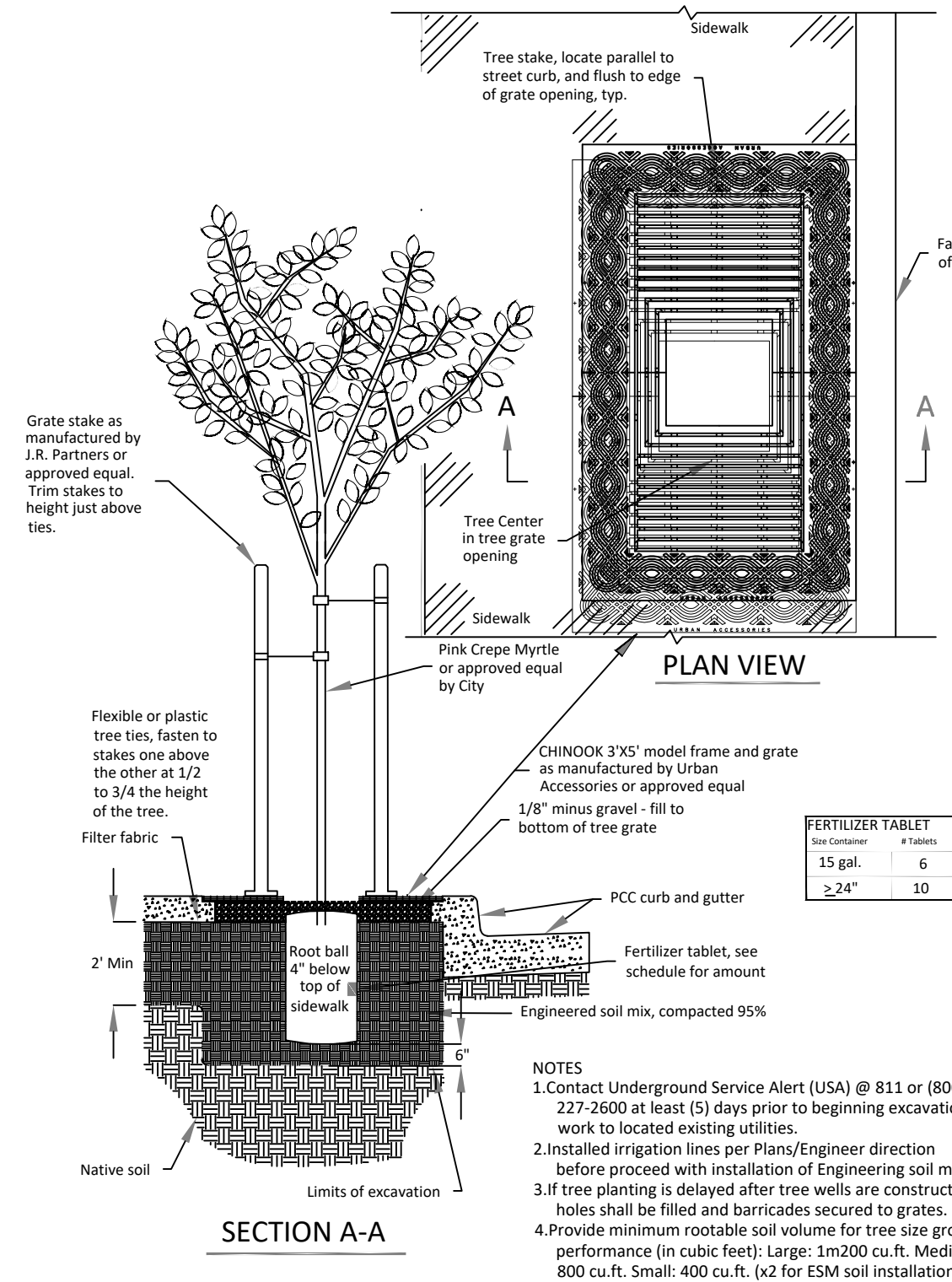
7 HOLOPHANE MPL3 DETAIL
NO SCALE



9 TREE GRATE & INSTALLATION DETAILS
NO SCALE



10 TREE WELL INSTALLATION AND PLANTING DETAILS
NO SCALE



NOTES

1. Contact Underground Service Alert (USA) @ 811 or (800) 227-2600 at least (5) days prior to beginning excavation work to locate existing utilities.
2. Installed irrigation lines per Plans/Engineer direction before proceed with installation of Engineering soil mix.
3. If tree planting is delayed after tree wells are constructed, holes shall be filled and barricades secured to grates.
4. Provide minimum rootable soil volume for tree size growth performance (in cubic feet): Large: 1m200 cu.ft. Medium: 800 cu.ft. Small: 400 cu.ft. (x2 for FSM soil installations)

CONSTRUCTION DETAILS
EAST BAYSHORE ROAD
PEDESTRIAN AND CYCLIST SAFETY
IMPROVEMENTS PROJECT
CITY OF EAST PALO ALTO, CALIFORNIA

SHEET 34
OF
35

DATE: 11/22/2024
JOB NO.:
CIP ST-28



FOR REDUCED PLANS
ORIGINAL SCALE IS IN INCHES

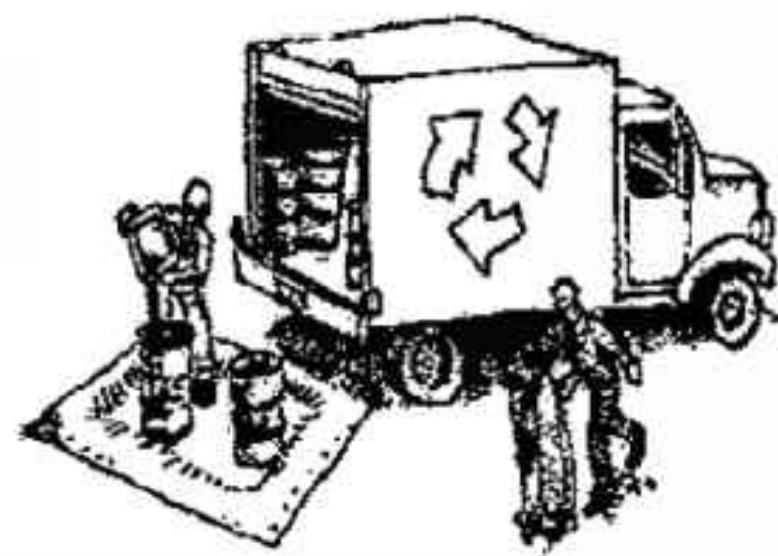
811 Know what's below.
Call before you dig.

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Construction Best Management Practices (BMPs)

Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all year long.

Materials & Waste Management



Non-Hazardous Materials

- ☐ Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within 14 days.
- ☐ Use (but don't overuse) reclaimed water for dust control.

Hazardous Materials

- ☐ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- ☐ Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- ☐ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- ☐ Arrange for appropriate disposal of all hazardous wastes.

Waste Management

- ☐ Cover waste disposal containers securely with tarps at the end of every work day and during wet weather.
- ☐ Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.
- ☐ Clean or replace portable toilets, and inspect them frequently for leaks and spills.
- ☐ Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base materials, wood, gyp board, pipe, etc.)
- ☐ Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

Construction Entrances and Perimeter

- ☐ Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- ☐ Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

Equipment Management & Spill Control



Maintenance and Parking

- ☐ Designate an area, fitted with appropriate BMPs, for vehicle and equipment parking and storage.
- ☐ Perform major maintenance, repair jobs, and vehicle and equipment washing off site.
- ☐ If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan or drop cloths big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- ☐ If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- ☐ Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, or steam cleaning equipment.

Spill Prevention and Control

- ☐ Keep spill cleanup materials (e.g., rags, absorbents and cat litter) available at the construction site at all times.
- ☐ Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made.
- ☐ Clean up spills or leaks immediately and dispose of cleanup materials properly.
- ☐ Do not hose down surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags).
- ☐ Sweep up spilled dry materials immediately. Do not try to wash them away with water, or bury them.
- ☐ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- ☐ Report significant spills immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number, 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

Earthmoving



- ☐ Schedule grading and excavation work during dry weather.
- ☐ Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- ☐ Remove existing vegetation only when absolutely necessary, and seed or plant vegetation for erosion control on slopes or where construction is not immediately planned.
- ☐ Prevent sediment from migrating offsite and protect storm drain inlets, gutters, ditches, and drainage courses by installing and maintaining appropriate BMPs, such as fiber rolls, silt fences, sediment basins, gravel bags, berms, etc.
- ☐ Keep excavated soil on site and transfer it to dump trucks on site, not in the streets.

Contaminated Soils

- ☐ If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
 - Unusual soil conditions, discoloration, or odor.
 - Abandoned underground tanks.
 - Abandoned wells
 - Buried barrels, debris, or trash.

Paving/Asphalt Work



- ☐ Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from contacting stormwater runoff.
- ☐ Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry seal, fog seal, etc.
- ☐ Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters.
- ☐ Do not use water to wash down fresh asphalt concrete pavement.

Sawcutting & Asphalt/Concrete Removal

- ☐ Protect nearby storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or gravel bags to keep slurry out of the storm drain system.
- ☐ Shovel, absorb, or vacuum saw-cut slurry and dispose of all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- ☐ If sawcut slurry enters a catch basin, clean it up immediately.

Concrete, Grout & Mortar Application



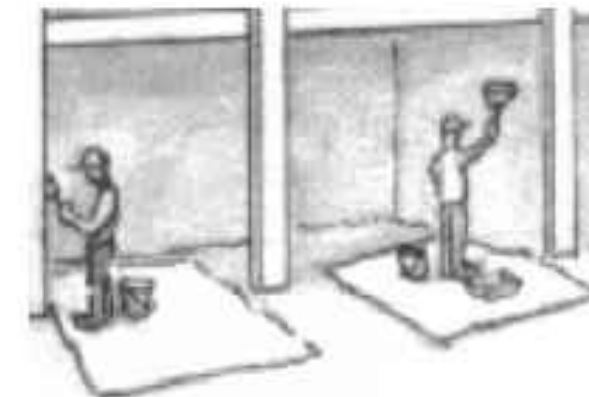
- ☐ Store concrete, grout, and mortar away from storm drains or waterways, and on pallets under cover to protect them from rain, runoff, and wind.
- ☐ Wash out concrete equipment/trucks offsite or in a designated washout area, where the water will flow into a temporary waste pit, and in a manner that will prevent leaching into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as garbage.
- ☐ When washing exposed aggregate, prevent washwater from entering storm drains. Block any inlets and vacuum gutters, hose washwater onto dirt areas, or drain onto a bermed surface to be pumped and disposed of properly.

Landscaping



- ☐ Protect stockpiled landscaping materials from wind and rain by storing them under tarps all year-round.
- ☐ Stack bagged material on pallets and under cover.
- ☐ Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

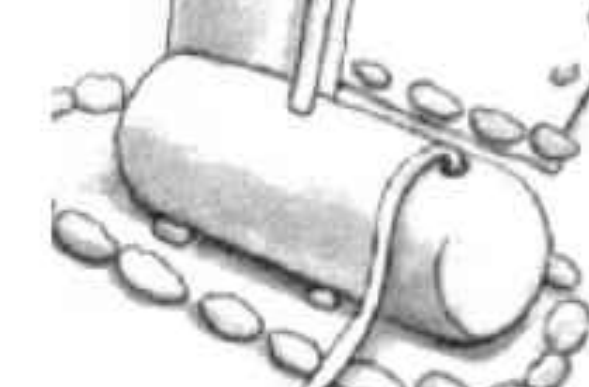
Painting & Paint Removal



Painting Cleanup and Removal

- ☐ Never clean brushes or rinse paint containers into a street, gutter, storm drain, or stream.
- ☐ For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer. Never pour paint down a storm drain.
- ☐ For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids as hazardous waste.
- ☐ Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.
- ☐ Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury, or tributyltin must be disposed of as hazardous waste. Lead based paint removal requires a state-certified contractor.

Dewatering



- ☐ Discharges of groundwater or captured runoff from dewatering operations must be properly managed and disposed. When possible send dewatering discharge to landscaped area or sanitary sewer. If discharging to the sanitary sewer call your local wastewater treatment plant.
- ☐ Divert run-on water from offsite away from all disturbed areas.
- ☐ When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- ☐ In areas of known or suspected contamination, call your local agency to determine whether the ground water must be tested. Pumped groundwater may need to be collected and hauled off-site for treatment and proper disposal.

Storm drain polluters may be liable for fines of up to \$10,000 per day!