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**PROJECT DESCRIPTION**

PROVIDE PEDESTRIAN ACCESS TO THE DOWNTOWN VILLAGE BY CONSTRUCTING SIDEWALK IMPROVEMENTS FROM THE THE UPPER PACIFIC PARKING LOT TO THE INTERSECTION AT MONTEREY AND PARK AVENUE. THE PROJECT SCOPE INCLUDES CONSTRUCTING NEW SIGNING, STRIPING, CURB, GUTTER, SIDEWALK, AND RETAINING WALL ON THE SOUTH SIDE OF THE UPPER PACIFIC PARKING LOT DRIVEWAY.

**BASE BID**

"U" LINE STA 50+00 TO 55+09

UPPER PACIFIC PARKING LOT FROM WESTERLY PROJECT LIMITS TO MONTEREY AVENUE. IMPROVEMENTS INCLUDE SIDEWALK, RETAINING WALL, AND CURB RAMP RECONSTRUCTION ON THE NORTHWEST AND SOUTHWEST CORNER OF THE MONTEREY AVE / PARK AVE INTERSECTION. FULL STRIPING AND SIGNING IMPROVEMENTS AT THE MONTEREY AVE / PARK AVE INTERSECTION.

**ADD ALTERNATIVE 1**

"P" LINE STA 50+00 TO 52+41

PARK AVENUE FROM MONTEREY AVENUE TO MCCORMICK AVENUE. IMPROVEMENTS INCLUDE SIDEWALK, CURB RAMP RECONSTRUCTION, AND BUS TURNOUT ON THE SOUTHEAST CORNER OF THE MONTEREY AVE / PARK AVE INTERSECTION.

**BASIS OF BEARINGS AND ELEVATIONS**

ELEVATIONS SHOWN ARE BASED ON SANTA CRUZ COUNTY BENCHMARK NUMBER 909, STANDARD DISK SET IN CONCRETE FOUNDATION AT CAPITOLA RAILROAD STATION, NORTHWESTERLY OF MONTEREY AVENUE AND PARK AVENUE INTERSECTION

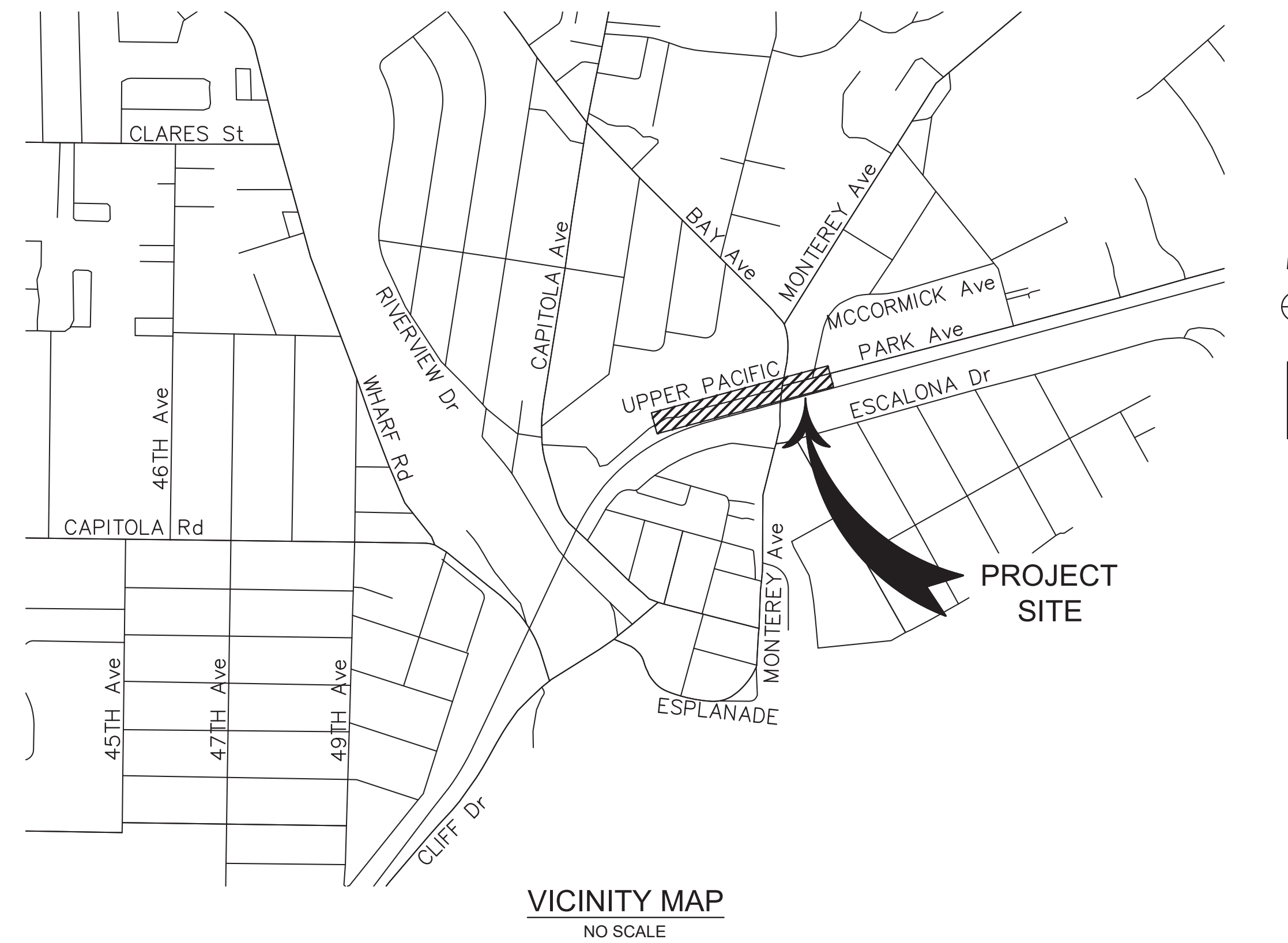
ELEVATION = 63.922 NGVD 29 (USGS BM "Z 212 1935) DATUM  
 CONTOUR INTERVAL = 1 FOOT  
 DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF

# UPPER PACIFIC SIDEWALK IMPROVEMENTS

## SANTA CRUZ COUNTY CAPITOLA, CALIFORNIA

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TO BE SUPPLEMENTED BY THE PROJECT SPECIFICATIONS, CITY OF CAPITOLA STANDARD DRAWINGS, CALTRANS REVISED STANDARD PLANS DATED APRIL 17, 2020, AND CALIFORNIA MUTCD REV 5 DATED MARCH 27, 2020.



No.	REVISIONS	DATE	BY

**Kimley»Horn**

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 100 WEST SAN FERNANDO STREET, SUITE 250, SAN JOSE, CA 95113  
 PHONE: 669-800-4130  
 WWW.KIMLEY-HORN.COM

KHA PROJECT	097763140
DATE	4/29/2024
SCALE	AS SHOWN
DESIGNED BY	DW
DRAWN BY	DW
CHECKED BY	KM

**UPPER PACIFIC SIDEWALK  
IMPROVEMENTS**

PREPARED FOR  
**CITY OF CAPITOLA**

SANTA CRUZ COUNTY



**TITLE**

DATE SIGNED: May 06, 2024

SHEET NO. 1  
OF 13 SHEETS

**T-1**



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**GENERAL PROJECT NOTES**

1. ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS AND THE PROJECT SPECIFICATIONS.
2. CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO CONTRACTORS"
3. EXACT FIELD LOCATION FOR NEW IMPROVEMENTS SHALL BE APPROVED BY THE ENGINEER BEFORE CONSTRUCTION.
4. VERIFICATION OF EXISTING CONDITIONS: CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION. IF ANY DISCREPANCIES ARE NOTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR DIRECTION.
5. UNDERGROUND SERVICE ALERT: A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT 811 FOR EXISTING UTILITY LOCATIONS.
6. UNDERGROUND FACILITIES: THE LOCATION OF EXISTING UNDERGROUND UTILITY FACILITIES, IF SHOWN ON THE PLANS, ARE APPROXIMATE ONLY. CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANY TO OBTAIN INFORMATION REGARDING THE DEPTH OF BURIAL AND HORIZONTAL LOCATION OF UTILITY LINES AS NECESSARY; FIELD VERIFY OBTAINED INFORMATION, AND NOTIFY ENGINEER OF ANY CONFLICTS OR OMISSIONS.
7. NOTICE TO PROCEED: CONTRACTOR SHALL NOT COMMENCE WORK UNTIL AFTER A PRE-CONSTRUCTION MEETING HAS BEEN HELD WITH THE CITY, AND AFTER A NOTICE TO PROCEED HAS BEEN ISSUED BY THE CITY.
8. TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN, AND OTHER DEVICES TO PROVIDE FOR SAFE PASSAGE OF PUBLIC VEHICULAR, BIKE, AND PEDESTRIAN TRAFFIC.
9. THE CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL & SIGNING PLAN TO THE ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE NOTICE TO PROCEED SHALL NOT BE ISSUED UNTIL SAID TRAFFIC CONTROL PLAN HAS BEEN SUBMITTED AND APPROVED BY THE CITY.
10. CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY DEVICES IN ACCORDANCE WITH CURRENT CALTRANS TRAFFIC CONTROL STANDARDS INCLUDING, BUT NOT LIMITED TO, STRIPING, SIGNS, BARRICADES, AND FLAG PERSONS.
11. CONTRACTOR SHALL KEEP EXISTING STREETS FREE FROM DIRT AND DEBRIS DURING ALL PHASES OF CONSTRUCTION.
12. CONTRACTOR SHALL PROVIDE DUST CONTROL AT ALL TIMES. PRIOR TO OBTAINING WATER FROM FIRE HYDRANTS, CONTRACTOR SHALL OBTAIN A HYDRANT METER FROM OPERATOR OF WATER SYSTEM.
13. CONTRACTOR SHALL MAINTAIN ACCESS TO PROPERTIES ALONG CLARES STREET THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES.
14. ALL EXISTING UTILITY FACILITIES WITHIN THE PROJECT SHOWN ON THE PLANS ARE TO ADJUSTED TO GRADE BY THE CONTRACTOR. UTILITY COMPANIES, HOWEVER, RESERVE THE RIGHTS TO ADJUST THEIR FACILITIES TO GRADE USING THEIR OWN FORCES AFTER THE CONTRACT IS AWARDED. NO COMPENSATION WILL BE ALLOWED FOR ANY ADJUSTMENT WHICH MAY BE PERFORMED BY THE OWNER OF THE FACILITIES. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES TO HAVE THEIR STRUCTURES ADJUSTED TO GRADE OR TO OBTAIN WRITTEN PERMISSION FROM UTILITY COMPANIES TO ADJUST THEIR STRUCTURES TO GRADE.
15. UTILITY REPAIR: CONTRACTOR SHALL REPAIR ANY DAMAGE OR INTERRUPTION OF UTILITIES, WATER LINES OR IRRIGATION SYSTEMS CAUSED BY CONSTRUCTION IMMEDIATELY.
16. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING EXISTING STREETS, SURROUNDING LANDSCAPE, AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING AND GRADING, ETC., AND IS TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
17. CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS AND CAL OSHA.
18. WHEN HAULING ANY EARTH, SAND, GRAVEL, STONE, DEBRIS, PAPER, OR ANY OTHER SUBSTANCE OVER ANY PUBLIC STREET, ALLEY, OR PUBLIC PLACE, THE CONTRACTOR SHALL NOT ALLOW MATERIAL TO BLOW OR SPILL OVER AND UPON SAID PUBLIC, ADJACENT OR PRIVATE PROPERTY.
19. GRADING OR ANY OTHER OPERATION THAT CREATES DUST SHALL BE STOPPED IMMEDIATELY IF DUST AFFECTS ADJACENT PROPERTIES. SUFFICIENT WATERING TO CONTROL DUST IS REQUIRED AT ALL TIMES AND A DUST PALLIATIVE MAY BE REQUIRED BY THE CITY ENGINEER. MUD TRACKED ONTO STREETS OR ADJACENT PROPERTIES SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR. STREETS SHALL BE SWEEPED AS DIRECTED BY THE CITY INSPECTOR.
20. ALL NEW STORM DRAIN INLETS SHALL BE STENCILED OR STAMPED WITH THE CITY'S CLEAN WATER PROGRAM STANDARD LOGO, "NO DUMPING-DRAINS TO CREEK", PRIOR TO THE FINAL INSPECTION. COORDINATE WITH ENGINEER.
21. ALL EXISTING IRRIGATION, LANDSCAPE MATERIALS, PAVEMENT DELINEATION, CURB AND GUTTER, AND OTHER IMPROVEMENTS, THAT ARE NOT TO BE REMOVED BUT ARE DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED OR RESTORED TO EXISTING CONDITION AT NO ADDITIONAL EXPENSE TO THE CITY.
22. TREES TO REMAIN SHALL BE FLAGGED AND MARKED PRIOR TO ANY CLEARING OR GRUBBING WORK. WHERE REQUIRED BY THE CITY, PROTECTIVE FENCING SHALL BE INSTALLED PRIOR TO COMMENCING ANY GRADING, REMOVAL, OR DEMO WORK. LOCATIONS OF FENCING SHALL BE DETERMINED IN THE FIELD BY THE CITY UPON COMPLETION OF THE STAKING DAYLIGHT LINES.
23. TOPOGRAPHIC DATA SHOWN ON THESE PLANS BASED ON SURVEY DATA PROVIDED BY BOWMAN & WILLIAMS, NOVEMBER 2012.
24. ROADWAY STRUCTURAL SECTIONS SHOWN ON THESE PLANS BASED ON GEOTECHNICAL INVESTIGATION PROVIDED BY ALL EARTH GEOTECHNICAL ENGINEERS, DECEMBER 2023.

25. THE TERM "DESIGN ENGINEER" USED HEREIN SHALL MEAN THE ENGINEER WHO HAS SIGNED AND SEALED HIS/HER RESPECTIVE PLAN SHEETS AND IS IN RESPONSIBLE CHARGE OF THE ENGINEERING DESIGN ON THOSE SHEETS. THE TERM "CONTRACTOR" USED HEREIN SHALL MEAN ANY GENERAL CONTRACTOR OR SUBCONTRACTOR USING THESE PLANS.
26. THE DESIGN ENGINEER SHALL NOT PROVIDE, OBSERVE, COMMENT ON NOR ENFORCE ANY SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, IMPLEMENT, AND MAINTAIN ALL SAFETY MEASURES AND SHALL BE SOLELY RESPONSIBLE FOR ALL REQUIRED SAFETY MEASURES, PROCEDURES AND PROGRAMS AND COMPLYING WITH ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS. THE CONTRACTOR AGREES THAT SHE/HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS AND SAFETY OF ALL PERSONS AND PROPERTY DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
27. THE DESIGN ENGINEER SHALL HAVE NO RESPONSIBILITY FOR ANY OF THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION, TECHNIQUES, EQUIPMENT CHOICE AND USAGE, SEQUENCE, SCHEDULE, SAFETY PROGRAMS, OR SAFETY PRACTICES, NOR SHALL THE DESIGN ENGINEER HAVE ANY AUTHORITY OR RESPONSIBILITY TO DIRECT OR STOP THE WORK OF ANY CONTRACTOR.
28. ANY CHANGES MADE BY THE CONTRACTOR TO THE CONTRACTUALLY AGREED UPON SCOPE, SCHEDULE AND/OR FEE, WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF THE OWNER, IS THE SOLE RESPONSIBILITY AND LIABILITY OF THE CONTRACTOR. THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR DIRECTING, IMPLICITLY OR EXPLICITLY ANY SUCH CHANGES AND THE CONTRACTOR ASSUMES ALL RISK OF UNDERTAKING ANY SUCH CHANGES.
29. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE DESIGN ENGINEER AND OWNER, THEIR OFFICERS, AGENTS AND EMPLOYEES, HARMLESS FROM ANY AND ALL CLAIMS, DEMANDS, JUDGMENTS, LOSS, DAMAGES, COSTS, EXPENSES, FEES OR LIABILITY WHATSOEVER, REAL OR ALLEGED, IN CONNECTION WITH, IN WHOLE OR IN PART, DIRECTLY OR INDIRECTLY, THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE DESIGN ENGINEER.
30. IF THERE ARE ANY QUESTIONS REGARDING THESE PLANS, THE CONTRACTOR SHALL REQUEST IN WRITING FROM THE DESIGN ENGINEER AND THE OWNER, AN INTERPRETATION BEFORE PERFORMING ANY RELATED OR IMPACTED WORK. ANY ELECTRONIC FILES ARE PROVIDED ONLY FOR THE CONVENIENCE OF THE RECEIVING PARTY AND ARE INTENDED SOLELY FOR THE EXCLUSIVE USE BY THAT PARTY FOR THE PURPOSES EXPRESSLY AUTHORIZED. IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE, ONLY PRINTED COPIES OF DOCUMENTS MAY BE RELIED UPON.
31. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PREPARING ITS BID, IN WHOLE AND IN PART, BASED UPON THE DESIGN SHOWN ON THESE PLANS. THE CONTRACTOR IS NOT AUTHORIZED TO USE ANY QUANTITIES SHOWN ON THESE PLANS WITHOUT THE EXPLICIT WRITTEN PERMISSION OF THE ENGINEER OF RECORD. THE DESIGN ENGINEER MAKES NO WARRANTY OR REPRESENTATION AS TO THE SUITABILITY OF ANY INFORMATION SHOWN HEREON FOR DETERMINING A CONTRACTOR BID.
32. ANYTHING MENTIONED IN THE SPECIFICATIONS, IF ANY, AND NOT SHOWN ON THE DRAWINGS, OR SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, SHALL BE OF LIKE EFFECT AS IF SHOWN OR MENTIONED IN BOTH.
33. THE EXISTENCE, LOCATION, TYPE, CONDITION AND SIZE OF UNDERGROUND UTILITIES, FACILITIES OR STRUCTURES ("FACILITIES") SHOWN ON THESE PLANS WAS OBTAINED FROM A SEARCH OF READILY AVAILABLE RECORDS, OR AS PROVIDED BY OTHERS. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID INFORMATION. THE CONTRACTOR SHALL CONFIRM SAID INFORMATION BY FIELD MEASUREMENTS, OBSERVATIONS AND WHATEVER MEANS NECESSARY, PRIOR TO CONSTRUCTION. THE CONTRACTOR WILL IMMEDIATELY INFORM THE DESIGN ENGINEER IN WRITING IF ANY DISCREPANCIES OR CONFLICTING INFORMATION IS FOUND. THE CONTRACTOR SHALL PROTECT THE FACILITIES SHOWN HEREON AND ANY OTHERS NOT OF RECORD OR NOT SHOWN ON THESE PLANS, AS NEEDED. ALL DAMAGES THERETO CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE APPROPRIATE SPECIFICATIONS AND STANDARDS AT THE SOLE EXPENSE OF THE CONTRACTOR.
34. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES AS NEEDED, SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY DUE TO THE ACTUAL LOCATION, SIZE, TYPE, OR CONDITION OF EXISTING FACILITIES DIFFERING FROM WHAT IS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ALL SUCH FACILITIES WHETHER NOTED ON THESE PLANS OR NOT. THE DESIGN ENGINEER ASSUMES NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY DAMAGE TO THE EXISTING IMPROVEMENTS AND REPLACEMENT TO THE SATISFACTION OF THE OWNER AND/OR AUTHORITY HAVING JURISDICTION AS NEEDED.
35. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO STARTING WORK ADJACENT TO, ABOVE OR BELOW THEIR FACILITIES AND SHALL COORDINATE ALL WORK WITH UTILITY COMPANY REPRESENTATIVES.
36. THE CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED GRADING ELEMENTS BEFORE THE START OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES.
37. UNLESS EXPLICITLY STATED OTHERWISE HEREIN, THE EARTHWORK QUANTITIES SHOWN ON THESE PLANS ARE APPROXIMATE IN PLACE VOLUMES CALCULATED FROM THE EXISTING GROUND TO THE PROPOSED FINISHED GRADE. EXISTING GROUND IS DEFINED BY THE CONTOURS AND SPOT GRADES ON THE BASE SURVEY. PROPOSED FINISHED GRADE IS DEFINED AS THE FINAL GRADE AS INDICATED ON THE GRADING PLAN(S) AS FINISHED GROUND, FINISHED SURFACE, AND FINISHED FLOOR ELEVATIONS. NO REPRESENTATIONS OF SUCH QUANTITIES OR A BALANCED SITE CONDITION ARE MADE BY THE ENGINEER OF RECORD. THE EARTHWORK QUANTITIES SHOWN ON THESE PLANS ARE FOR PERMITTING PURPOSES ONLY. UNLESS EXPLICITLY STATED OTHERWISE HEREIN, THEY HAVE NOT BEEN FACTORED TO ACCOUNT FOR CHANGES IN VOLUME DUE TO BULKING, CLEARING AND GRUBBING, SHRINKAGE, SUBSIDENCE, OVER-EXCAVATION AND RE-COMPACTION, AND CONSTRUCTION METHODS. NOR DO THEY ACCOUNT FOR THE THICKNESS OF PAVEMENT SECTIONS, STORMWATER QUALITY MEDIA SECTIONS, UTILITY PIPES, TRENCHING AND BEDDING MATERIALS, BUILDING OR WALL FOOTINGS, BUILDING SLABS THICKNESSES AND UNDERLYING BASE OR SAND

- LAYERS, REUSE OF PULVERIZED MATERIALS THAT WILL UNDERLIE PAVEMENTS, ETC. THE CONTRACTOR IS NOT AUTHORIZED TO USE THE ESTIMATES HEREIN FOR BIDDING AND CONSTRUCTION PURPOSES WITHOUT THE EXPLICIT WRITTEN PERMISSION OF THE ENGINEER OF RECORD
38. THE CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL AND ALL OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. SHOULD DISCREPANCIES OR CONFLICTING INFORMATION BE FOUND ON ANY PLANS, OR IN ANY SPECIFICATIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND DESIGN ENGINEER IN WRITING BEFORE PROCEEDING WITH THE WORK IN QUESTION.
39. THE PROPOSED BUILDING FOOTPRINT(S) AND OTHER STRUCTURE FOOTPRINTS SHOWN IN THESE PLANS WERE PROVIDED TO THE DESIGN ENGINEER BY THE OWNER AT THE TIME OF PREPARATION OF THESE PLANS. THE DESIGN ENGINEER MAKES NO REPRESENTATION AS TO THE ACCURACY OF THESE FOOTPRINTS AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFIRMING WITH THE RELEVANT DESIGN TEAM PROFESSIONALS, AND USING THE FINAL, CORRECT VERSION OF THE FOOTPRINTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFIRMING THE STRUCTURE'S FINAL POSITION ON THE SITE BASED UPON THE FINAL ARCHITECTURAL FOOTPRINT, CIVIL PLANS, SURVEY AND ANY OTHER RELEVANT DOCUMENTS. ANY DIFFERENCES FOUND SHALL BE IMMEDIATELY REPORTED TO THE DESIGN ENGINEER AND OWNER.
40. THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT THE PROJECT PROPERTY FROM ANY EROSION AND SILTATION THAT RESULT FROM CONTRACTOR OPERATIONS, BY APPROPRIATE MEANS, OR BY SPECIFIC MEANS DESCRIBED IN THE PROJECT'S PLANS. SPECIFICATIONS OR STORM WATER POLLUTION PREVENTION REPORT, UNTIL SUCH TIME THAT THE PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY WHOMEVER IS TO BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND THE AGENCY HAVING JURISDICTION. THE DESIGN ENGINEER SHALL HAVE NO RESPONSIBILITY TO DIRECT THE CONTRACTOR REGARDING THE MEANS AND METHODS OF STORMWATER POLLUTION PREVENTION, SEQUENCE, OR SCHEDULE.
41. ALL SHOP DRAWINGS, RFIS AND ANY OTHER DOCUMENTS THAT REQUIRE DESIGN ENGINEER REVIEW SHALL BE SUBMITTED BY THE CONTRACTOR SUFFICIENTLY IN ADVANCE OF CONSTRUCTION OF THAT ITEM, TO ALLOW ADEQUATE REVIEW, COORDINATION AND RESPONSE. SAID DOCUMENTS ARE NOT A DIRECTION FROM THE DESIGN ENGINEER TO MODIFY THE CONTRACTORS SCOPE, SCHEDULE OR PRICE, AND THE CONTRACTOR WARRANTS NOT TO USE THEM AS SUCH.
42. THE CONTRACTOR SHALL ENSURE APPROPRIATE LICENSED PROFESSIONALS HAVE BEEN RETAINED BY THE CONTRACTOR TO PROVIDE ANY/ALL REQUIRED PROJECT CERTIFICATIONS AS MAY BE REQUIRED BY ANY AUTHORITY HAVING JURISDICTION. THE DESIGN ENGINEER WILL NOT PROVIDE ANY PROJECT CERTIFICATIONS UNLESS SPECIFICALLY RETAINED BY THE OWNER TO PROVIDE LIMITED SERVICES.
43. CONTRACTOR SHALL RETAIN A LICENSED SURVEYOR TO DOCUMENT ALL CHANGES TO THE APPROVED CONSTRUCTION DOCUMENTS DURING CONSTRUCTION. THE LICENSED SURVEYOR SHALL PREPARE A SIGNED AND SEALED "AS-BUILT" DRAWING UPON COMPLETION OF CONSTRUCTION. THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR THE PREPARATION IN WHOLE OR IN PART OF THE "AS-BUILT" DRAWINGS.
44. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MONUMENTATION AND BENCHMARKS WHICH WILL BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER AS REQUIRED BY THE MOST CURRENT VERSION OF THE LAND SURVEYORS ACT.

No.	REVISIONS	DATE	BY



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 100 WEST SAN FERNANDO STREET, SUITE 250, SAN JOSE, CA 95113  
 PHONE: 669-800-4130  
 WWW.KIMLEY-HORN.COM

KHA PROJECT	097763140
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CHECKED BY	KM

**UPPER PACIFIC SIDEWALK IMPROVEMENTS**

PREPARED FOR  
**CITY OF CAPITOLA**

SANTA CRUZ COUNTY

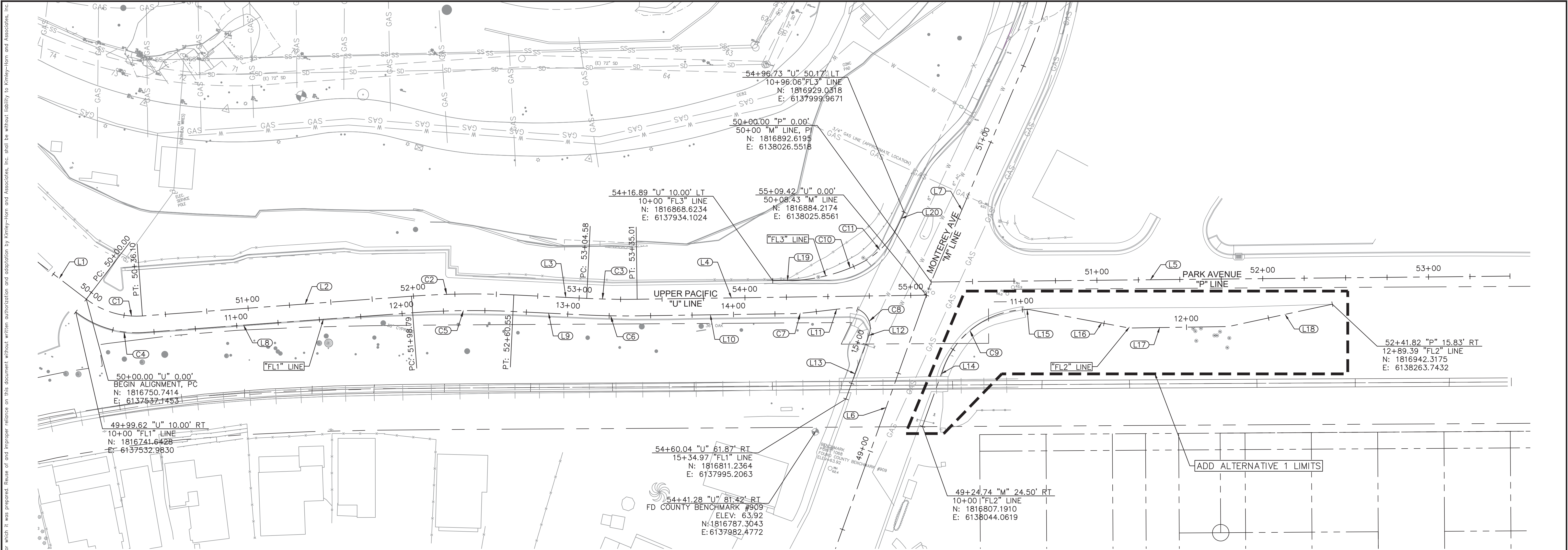


**GENERAL NOTES**

SHEET NO. 2  
 OF 13 SHEETS

**T-2**



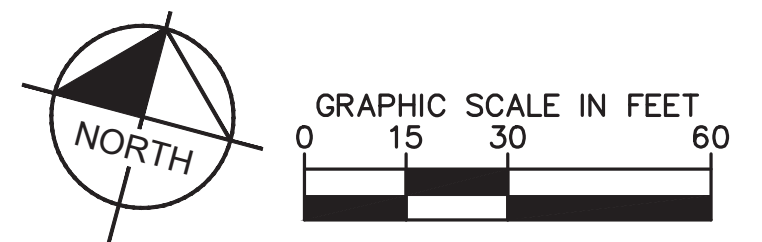


**TOPOGRAPHIC MAP NOTES**

- THIS MAP REPRESENTS A TOPOGRAPHIC SURVEY PERFORMED BY BOWMAN AND WILLIAMS. ELEVATIONS SHOWN ARE BASED ON SANTA CRUZ COUNTY BENCHMARK NUMBER 909, STANDARD DISK SET IN CONCRETE FOUNDATION AT CAPITOLA RAILROAD STATION, NORTHWESTERLY OF MONTEREY AVENUE AND PARK AVENUE INTERSECTION.
- TOPOGRAPHY SHOWN ARE FROM:
  - AERIAL SURVEY BY AERO-GEODETIC CORPORATION, JOB REFERENCE #007218, DATED 3/10/2000
  - BOWMAN & WILLIAMS TOPOGRAPHIC SURVEY FOR STORM DRAIN REPLACEMENT OR REHABILITATION, NOBLE GULCH TO BAY AVENUE, COUNTY OF SANTA CRUZ DEPARTMENT OF PUBLIC WORKS, ENTITLED "TOPOGRAPHIC SURVEY", JOB REFERENCE #22703 DATED 6/14/2003
  - SANTA CRUZ COUNTY SANITATION DISTRICT: BAY AVENUE AND MONTEREY AVENUE SANITARY SEWER REPAIR PLANS, JOB REFERENCE #54022, DATED 2003. AS-BUILTS DATED 11/20/2008, CITY OF CAPITOLA REFERENCE NUMBER N-287
  - IFLAND ENGINEERS, TOPOGRAPHIC SURVEY, ENTITLED "PACIFIC COVE-M.H.P.", JOB REFERENCE #11022, DATED 4/8/2011
  - BOWMAN & WILLIAMS TOPOGRAPHIC SURVEY, ENTITLED "TOPOGRAPHIC MAP SLIDE AREA", JOB REFERENCE #24635, DATED 5/19/2011
  - FILL IN TOPOGRAPHY BY BOWMAN & WILLIAMS SURVEYED IN OCTOBER AND NOVEMBER 2012.
- THIS MAP PORTRAYS THE SITE AT THE TIME OF THE SURVEY AND DOES NOT SHOW SOILS OR GEOLOGIC INFORMATION, UNDERGROUND CONDITIONS, EASEMENTS, ZONING, OR REGULATORY INFORMATION.
- BOUNDARY LOCATIONS SHOWN HEREON WERE DETERMINED WITH THE BENEFIT OF A FIELD SURVEY SUPPLEMENTED BY RECORD DATA. ALL BOUNDARY SHOWN IS FROM RECORD DATA. THIS TOPOGRAPHIC MAP DOES NOT CONSTITUTE A BOUNDARY SURVEY. THERE MAY BE EASEMENTS OR OTHER RIGHTS, RECORDED OR UNRECORDED AFFECTING THE SUBJECT PROPERTY, WHICH ARE NOT SHOWN HEREON.
- DISTANCES AND DIMENSIONS SHOWN ARE EXPRESSED IN FEET AND DECIMALS THEREOF, UNLESS OTHERWISE NOTED.
- UNDERGROUND UTILITY LOCATIONS, WHERE SHOWN, ARE BASED ON FIELD LOCATION OF OBSERVED UTILITIES AND EXISTING USA MARKINGS. THE EXISTENCE, LOCATION, AND DEPTH OF ALL UTILITIES MUST BE VERIFIED BY POSITIVE LOCATION (POTHOLING) BY THE CONSTRUCTION CONTRACTOR PRIOR TO EXCAVATION OR ANY CONSTRUCTION WHICH MAY BE AFFECTED BY THE LOCATION OR ELEVATION OF THE UTILITY.

LINE TABLE			
LINE	NAME	LENGTH	BEARING
L1	U	50.20	S67°34'48.24"E
L2	U	162.69	N70°48'19.67"E
L3	U	44.03	N77°44'39.80"E
L4	U	174.41	N74°11'10.67"E
L5	P	349.12	N74°25'17.37"E
L6	M	188.96	N4°44'00.45"E
L7	M	151.35	N8°09'15.27"E
L8	FL1	162.57	N70°48'19.67"E
L9	FL1	44.03	N77°44'39.80"E
L10	FL1	91.88	N74°11'10.67"E
L11	FL1	23.09	N68°20'24.80"E
L12	FL1	4.73	S2°38'53.23"W
L13	FL1	37.03	S4°59'14.30"W
L14	FL2	36.79	N4°44'00.45"E
L15	FL2	1.99	N74°09'21.05"E
L16	FL2	61.19	N85°27'56.90"E
L17	FL2	60.00	N74°09'21.05"E
L18	FL2	63.99	N62°50'45.29"E
L19	FL3	10.00	N74°11'10.67"E
L20	FL3	7.41	N9°29'01.43"E

CURVE TABLE							
CURVE	NAME	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	U	49.71'	36.10'	S88°23'14"E	35.31'	41°36'52"	18.89'
C2	U	510.00'	61.76'	N74°16'30"E	61.73'	6°56'20"	30.92'
C3	U	490.00'	30.43'	N75°57'55"E	30.42'	3°33'29"	15.22'
C4	FL1	60.00'	43.85'	S88°15'35"E	42.88'	41°52'11"	22.95'
C5	FL1	500.00'	60.55'	N74°16'30"E	60.52'	6°56'20"	30.31'
C6	FL1	500.00'	31.05'	N75°57'55"E	31.05'	3°33'29"	15.53'
C7	FL1	120.00'	12.24'	N71°15'48"E	12.24'	5°50'46"	6.13'
C8	FL1	12.00'	23.94'	S54°30'21"E	20.16'	114°18'28"	18.59'
C9	FL2	54.00'	65.43'	N39°26'41"E	61.50'	69°25'21"	37.41'
C10	FL3	100.00'	44.37'	N61°28'34"E	44.00'	25°25'13"	22.55'
C11	FL3	50.00'	34.28'	N29°07'29"E	33.61'	39°16'56"	17.84'

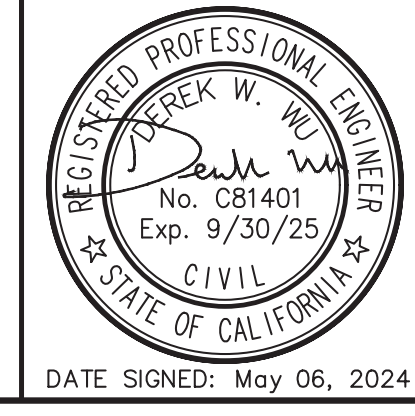


No.	REVISIONS	DATE	BY

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 100 WEST SAN FERNANDO STREET, SUITE 250, SAN JOSE, CA 95113  
 PHONE: 669-800-4130  
 WWW.KIMLEY-HORN.COM

KHA PROJECT	097763140
DATE	4/29/2024
SCALE	AS SHOWN
DESIGNED BY	DW
DRAWN BY	DW
CHECKED BY	KM

**UPPER PACIFIC SIDEWALK IMPROVEMENTS**  
 PREPARED FOR  
**CITY OF CAPITOLA**  
 SANTA CRUZ COUNTY CA

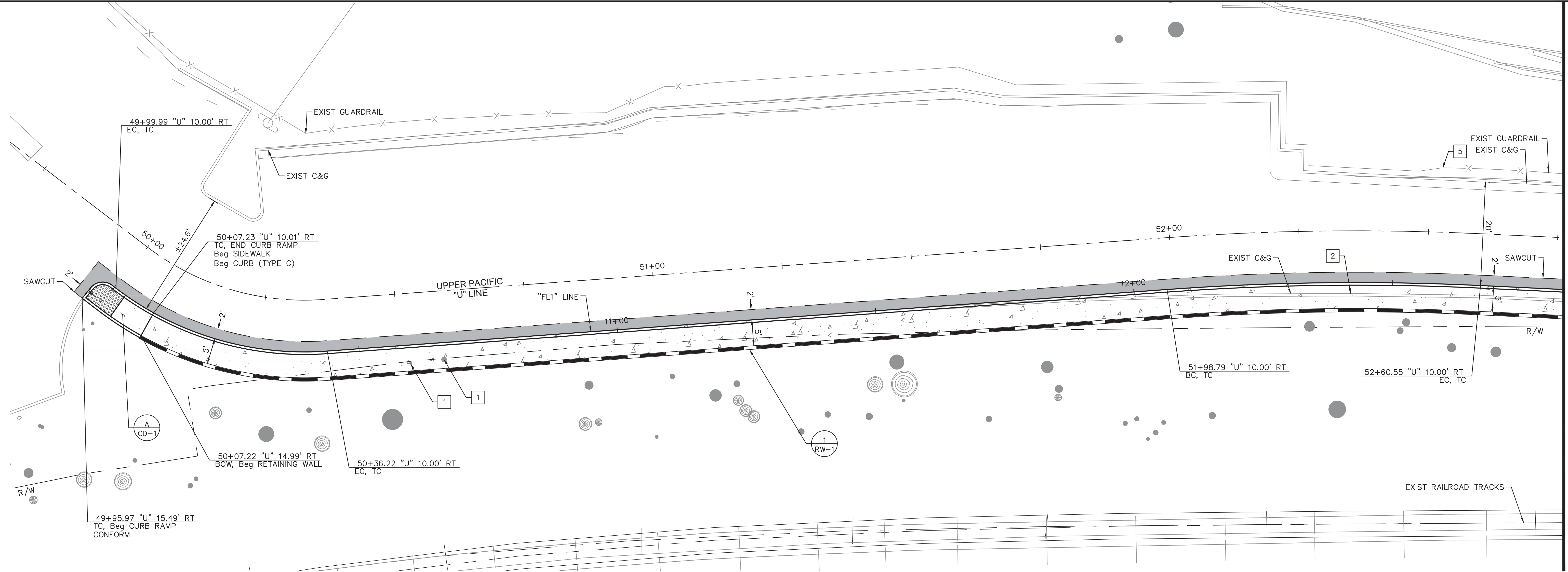


**HORIZONTAL CONTROL**

SHEET NO. 3  
 OF 13 SHEETS  
**HC-1**



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MATCH LINE 52+75 SEE SHEET L-2

**GENERAL CONSTRUCTION NOTES**

1. SAWCUT SHALL BE PER CITY DETAIL CAP-002 ON A NEAT LINE WITHOUT DAMAGING EXISTING AC OR CONCRETE THAT IS TO REMAIN IN PLACE. ANY DAMAGE TO THE ADJACENT SURFACE MATERIAL TO REMAIN SHALL BE REPAIRED OR REPLACED TO A CONDITION SATISFACTORY TO THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
2. CURB, GUTTER, AND SIDEWALK IMPROVEMENTS SHOWN ARE BASED ON EXISTING OG VERTICAL PROFILE ELEVATIONS AT PROPOSED LIP OF GUTTER.
3. ALL STATION CALLOUTS REFERENCE "U" LINE STATIONS, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL VERIFY ALL RIGHTS OF WAY PRIOR TO CONSTRUCTION.
5. SEE CONSTRUCTION DETAIL SHEETS FOR CURB RAMP, CURB, GUTTER, AND SIDEWALK DETAILS.
6. SEE RETAINING WALL PLAN FOR RETAINING WALL LAYOUT AND PROFILE.
7. SEE SIGNING AND STRIPING PLAN FOR PAVEMENT DELINEATION AND SIGNING DETAILS.
8. EXISTING UTILITIES ARE PRESENT CLOSE TO THE PROPOSED WORK. CONTRACTOR SHALL POTHOLE AND FIELD LOCATE EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY CONFLICTS WITH THE PROPOSED WORK PRIOR TO THE START OF CONSTRUCTION.
9. ALL TREES NOT SPECIFICALLY INDICATED FOR REMOVAL SHALL BE PROTECTED IN PLACE. ANY TREES THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN KIND AT NO ADDITIONAL EXPENSE TO THE CITY.
10. IF TREE ROOTS ARE ENCOUNTERED DURING EXCAVATION THEY SHALL BE PROTECTED AND A QUALIFIED ARBORIST SHALL BE ENGAGED TO PROVIDE DIRECTION TO PROTECT TREE AND ROOTS FROM DAMAGE.

**LEGEND**

- HMA (SEE TYPICAL SECTIONS)
- PCC (SIDEWALK/CURB RAMP/DRIVEWAY)
- DETECTABLE WARNING SURFACE
- GRAVEL
- SAWCUT
- G — GAS LINE
- OH — OVERHEAD UTILITY LINE(S)
- SS — SANITARY SEWER LINE
- SD — STORM DRAIN LINE
- W — WATER LINE
- C — DAYLIGHT CUT
- F — DAYLIGHT FILL
- $\begin{matrix} XX \\ / \\ XX \end{matrix}$  DETAIL NO. / SHEET REFERENCE

**CONSTRUCTION NOTES**

- 1 POTENTIAL TREE IMPACT/REMOVAL PENDING ARBORIST REPORT
- 2 REMOVE EXISTING CURB
- 3 EXISTING RAILROAD SIGNAL POLE TO REMAIN
- 4 RELOCATE EXISTING STREET LIGHT
- 5 EXISTING GUARDRAIL TO REMAIN
- 6 INSTALL SIMME SEAT PER SANTA CRUZ METRO GUIDELINES

No.	REVISIONS	DATE	BY

**Kimley»Horn**

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KHA PROJECT	097763140
DATE	4/29/2024
SCALE	AS SHOWN
DESIGNED BY	DW
DRAWN BY	DW
CHECKED BY	KM

**UPPER PACIFIC SIDEWALK IMPROVEMENTS**

PREPARED FOR  
**CITY OF CAPITOLA**

SANTA CRUZ COUNTY CA



**LAYOUT PLAN**

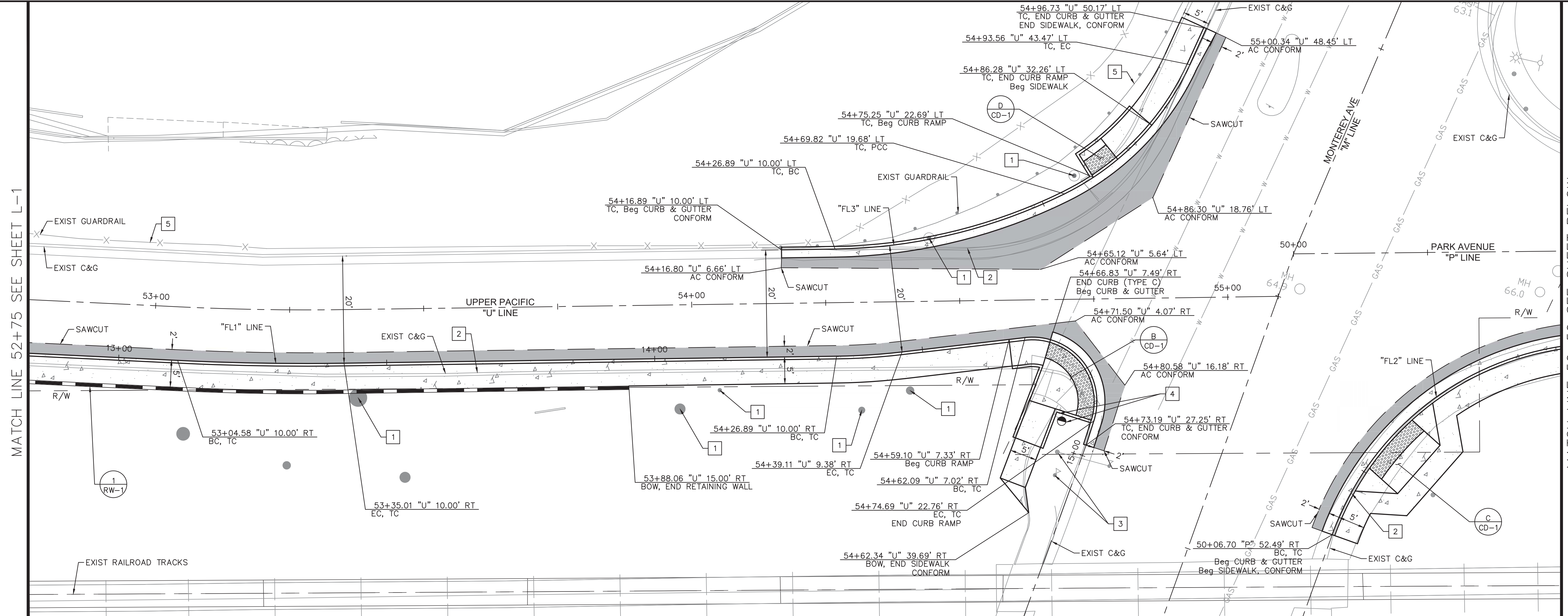
DATE SIGNED: May 06, 2024

SHEET NO. 4  
OF 13 SHEETS

**L-1**



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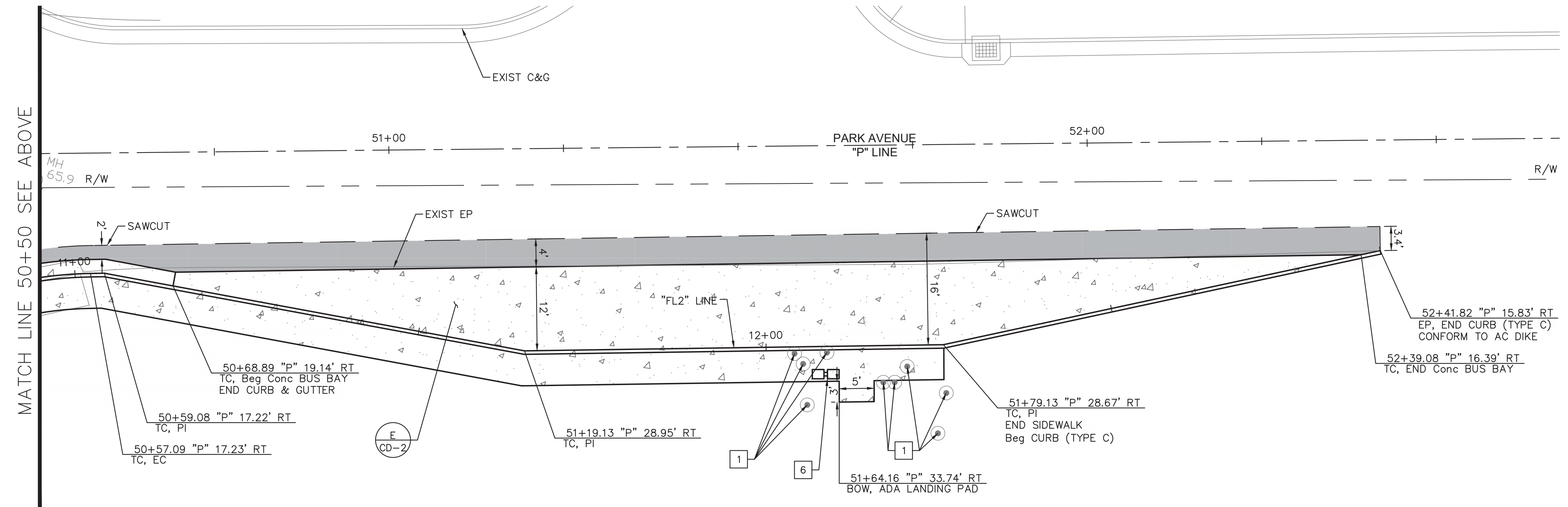


MATCH LINE 52+75 SEE SHEET L-1

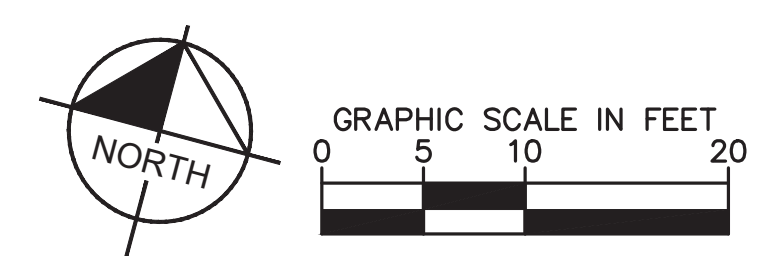
MATCH LINE 50+50 SEE SHEET BELOW

**CONSTRUCTION NOTES**

- 1 POTENTIAL TREE IMPACT/REMOVAL PENDING ARBORIST REPORT
- 2 REMOVE EXISTING CURB
- 3 EXISTING RAILROAD SIGNAL POLE TO REMAIN
- 4 RELOCATE EXISTING STREET LIGHT
- 5 EXISTING GUARDRAIL TO REMAIN
- 6 INSTALL SIMME SEAT PER SANTA CRUZ METRO GUIDELINES



MATCH LINE 50+50 SEE ABOVE

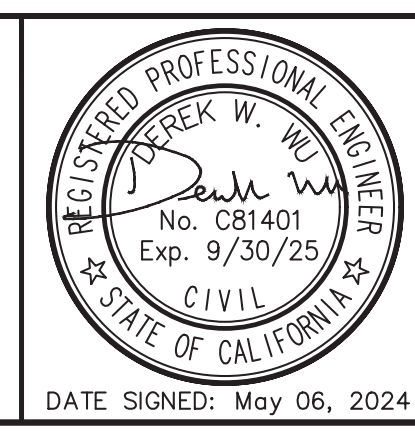


No.	REVISIONS	DATE	BY

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KHA PROJECT  
097763140  
 DATE  
4/29/2024  
 SCALE AS SHOWN  
 DESIGNED BY DW  
 DRAWN BY DW  
 CHECKED BY KM

**UPPER PACIFIC SIDEWALK IMPROVEMENTS**  
 PREPARED FOR  
**CITY OF CAPITOLA**  
 SANTA CRUZ COUNTY  
 CA

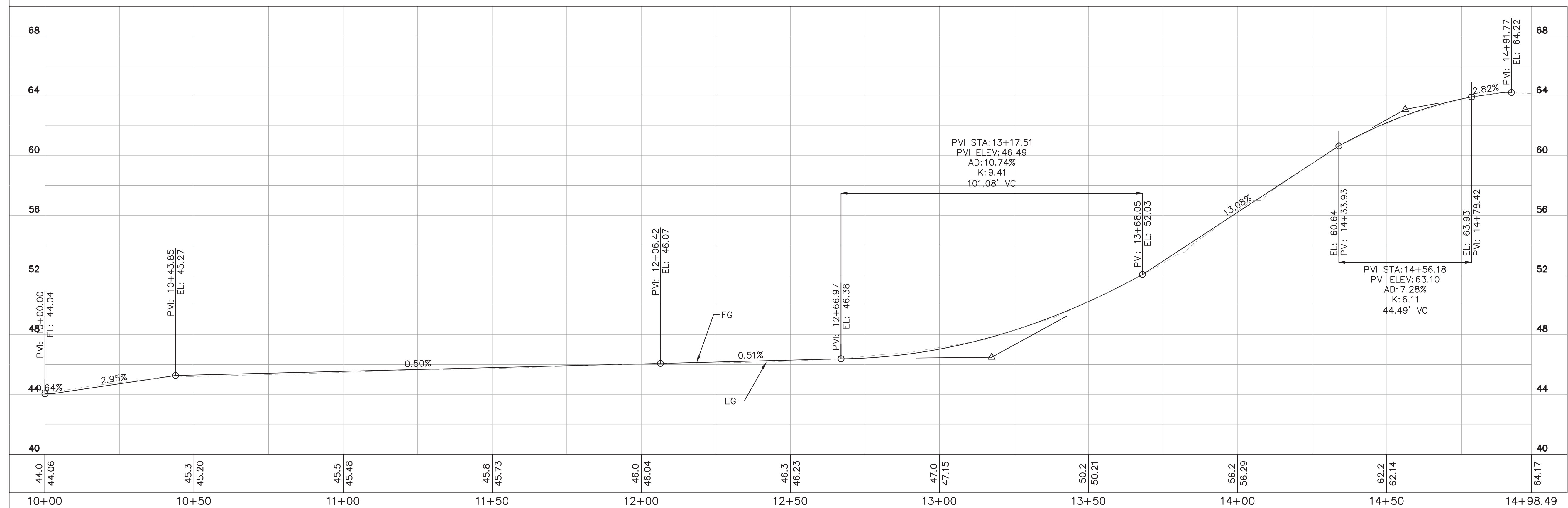


**LAYOUT PLAN**

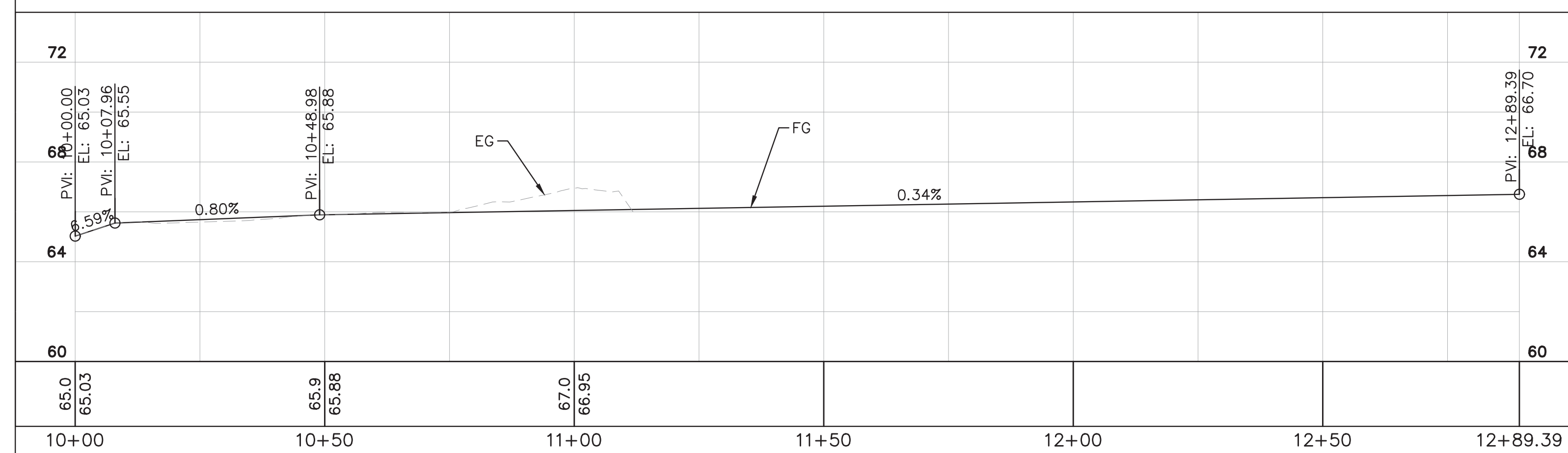
SHEET NO. 5  
 OF 13 SHEETS  
**L-2**



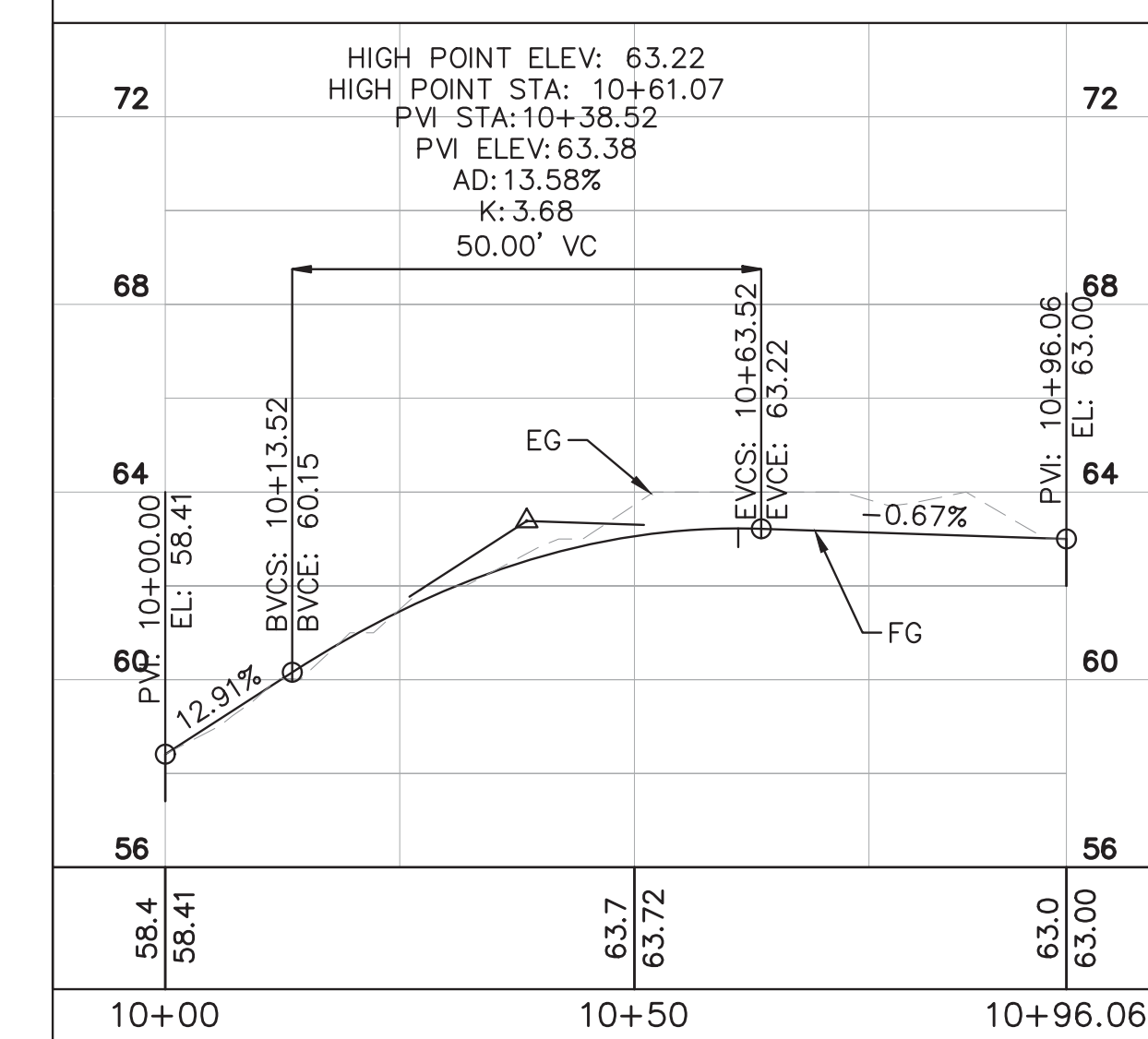
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**CURB PROFILE**  
**"FL1" LINE**  
 1"=20' H  
 1"=4' V



**CURB PROFILE**  
**"FL2" LINE**  
 1"=20' H  
 1"=4' V



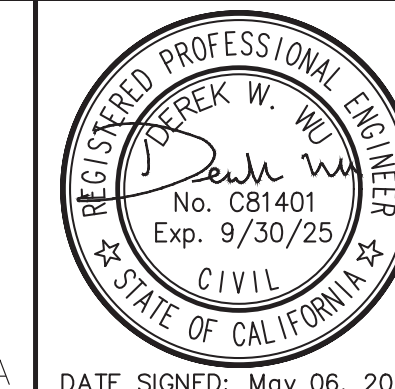
**CURB PROFILE**  
**"FL3" LINE**  
 1"=20' H  
 1"=4' V

No.	REVISIONS	DATE	BY



KHA PROJECT	097763140
DATE	4/29/2024
SCALE	AS SHOWN
DESIGNED BY	DW
DRAWN BY	DW
CHECKED BY	KM

**UPPER PACIFIC SIDEWALK IMPROVEMENTS**  
 PREPARED FOR  
**CITY OF CAPITOLA**  
 SANTA CRUZ COUNTY  
 CA



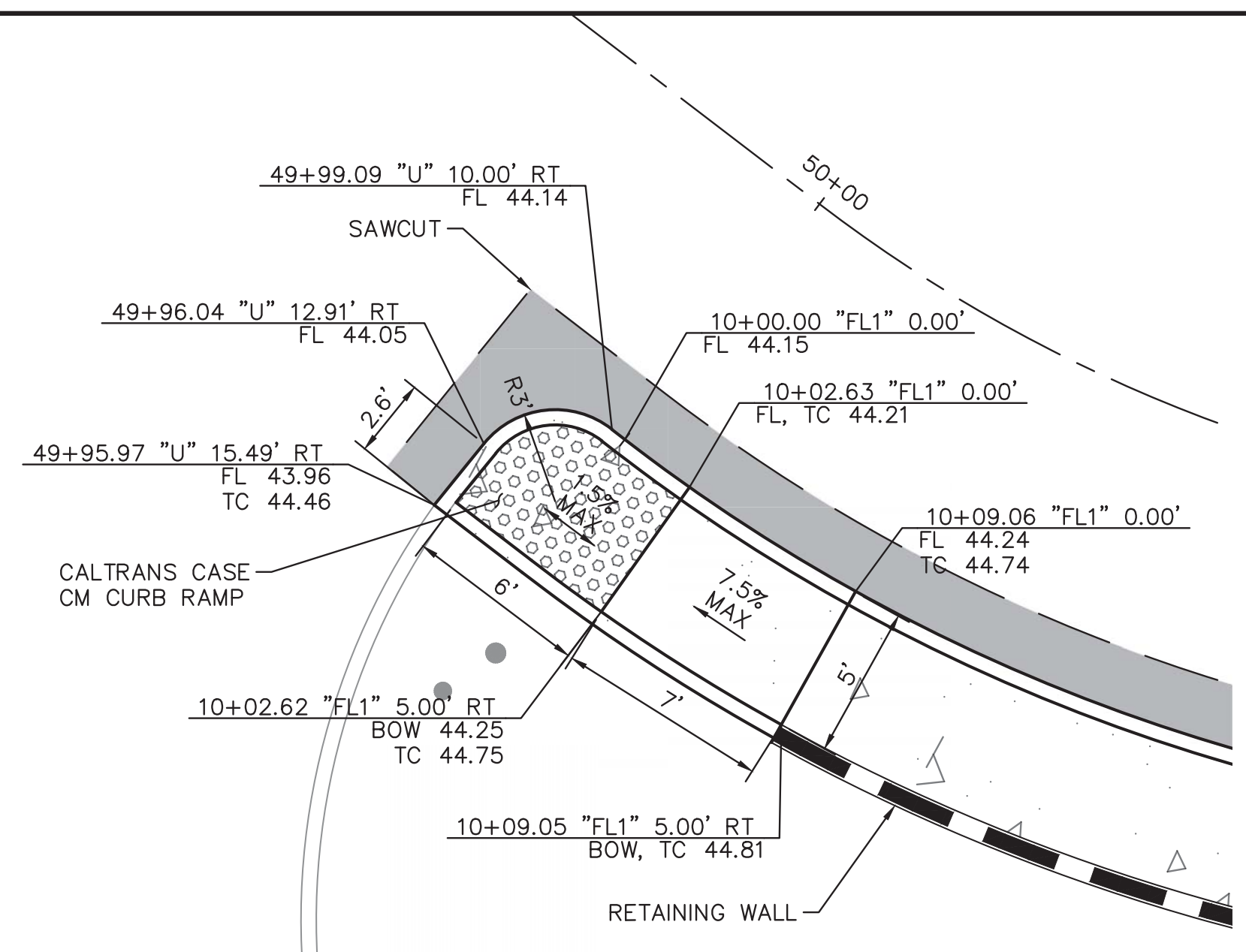
**PROFILE**

SHEET NO. 6  
 OF 13 SHEETS

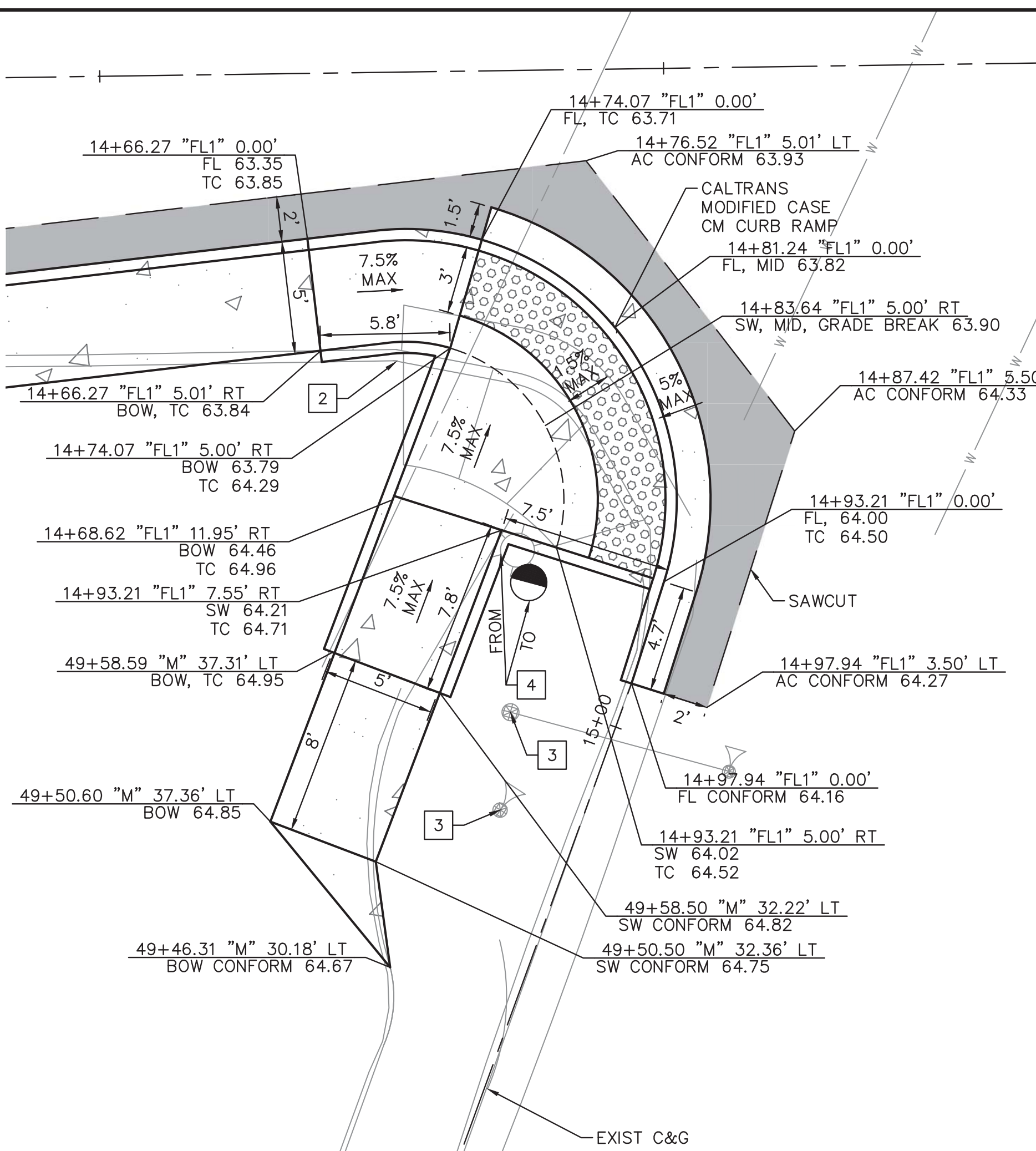
**P-1**



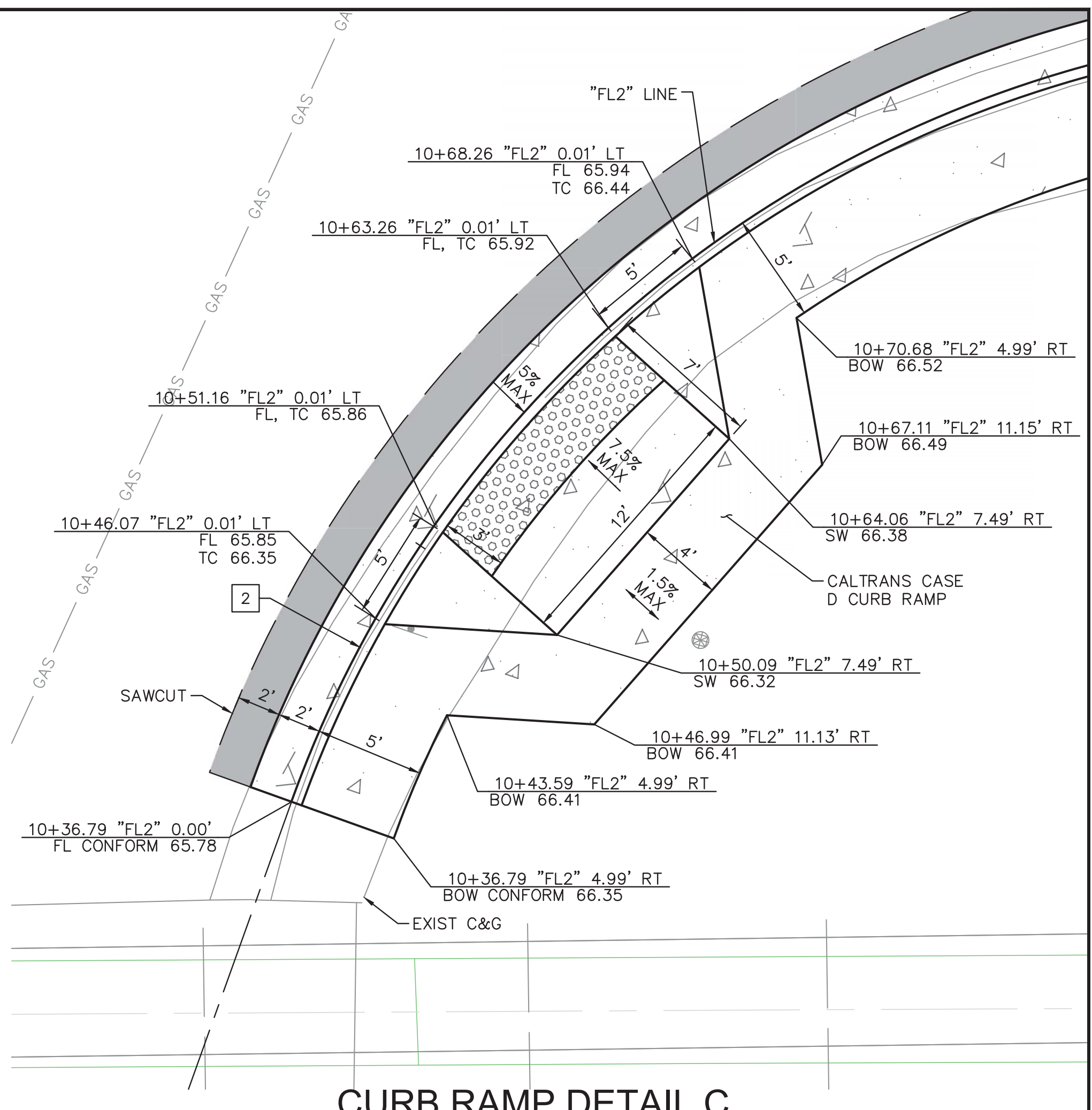
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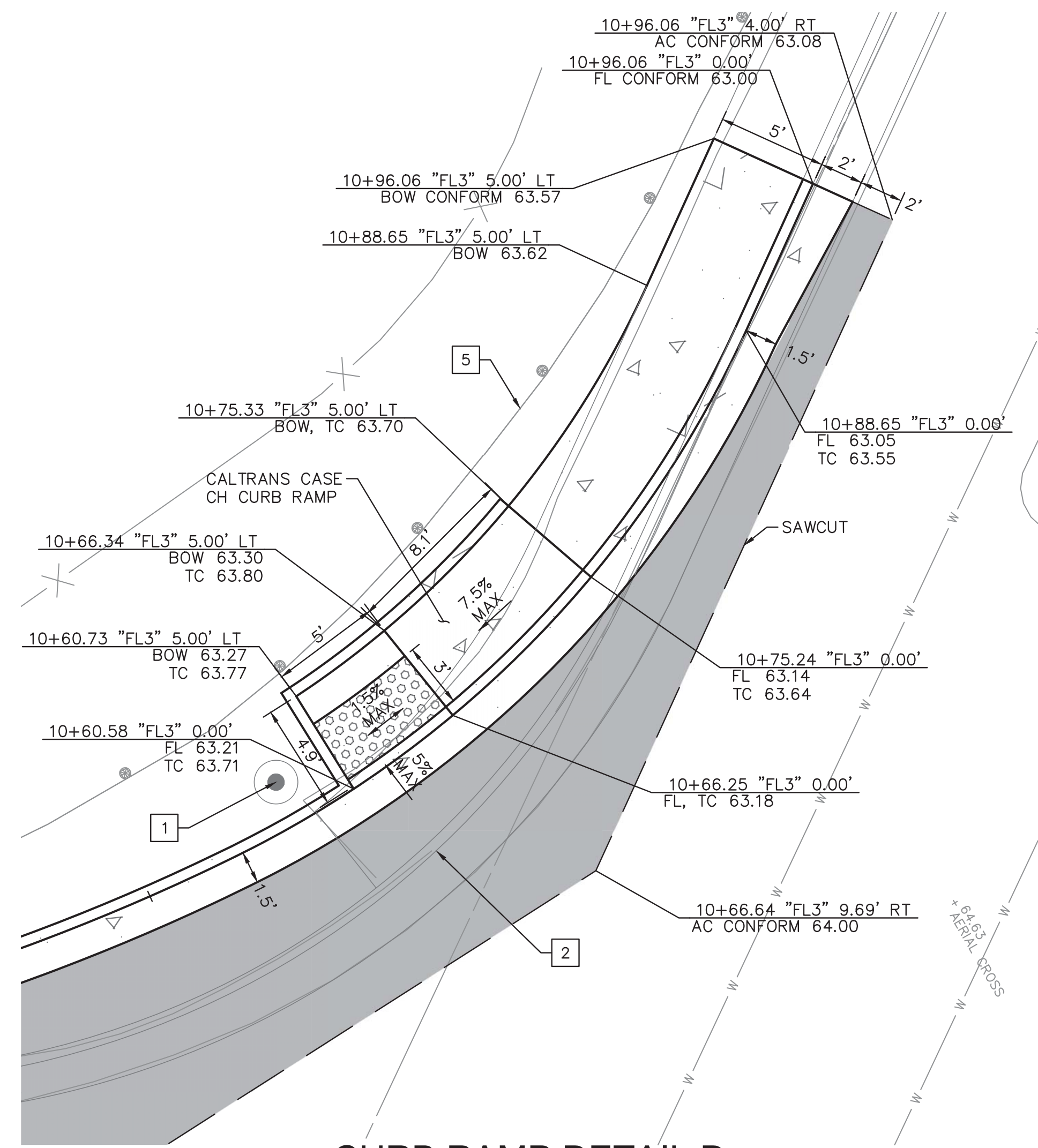
**CURB RAMP DETAIL A**



**CURB RAMP DETAIL B**



**CURB RAMP DETAIL C**



**CURB RAMP DETAIL D**

**GENERAL CONSTRUCTION NOTES**

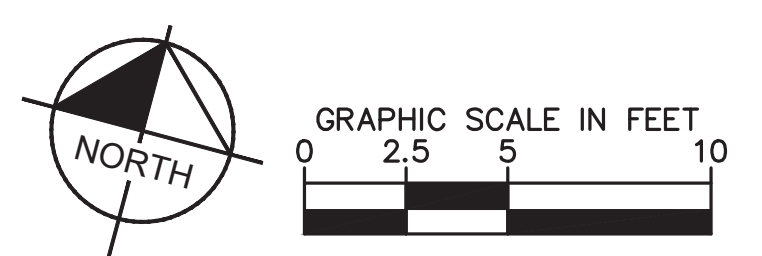
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**LEGEND**

- HMA (TYPE A)
- PCC (SIDEWALK/CURB RAMP/DRIVEWAY)
- DETECTABLE WARNING SURFACE
- GRAVEL
- SAWCUT
- G— GAS LINE
- OH— OVERHEAD UTILITY LINE(S)
- SS— SANITARY SEWER LINE
- SD— STORM DRAIN LINE
- W— WATER LINE
- C— DAYLIGHT CUT
- F— DAYLIGHT FILL
- (XX/XX) DETAIL NO. / SHEET REFERENCE

**CONSTRUCTION NOTES**

- POTENTIAL TREE IMPACT/REMOVAL PENDING ARBORIST REPORT
- REMOVE EXISTING CURB
- EXISTING RAILROAD SIGNAL POLE TO REMAIN
- RELOCATE EXISTING STREET LIGHT
- EXISTING GUARDRAIL TO REMAIN
- INSTALL SIMME SEAT PER SANTA CRUZ METRO GUIDELINES



No.	REVISIONS	DATE	BY

**Kimley»Horn**

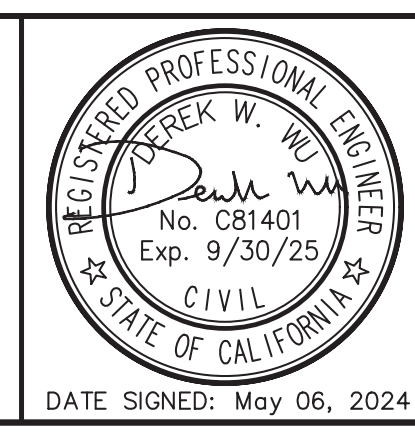
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PHONE: 669-800-4130  
WWW.KIMLEY-HORN.COM

KHA PROJECT	097763140
DATE	4/29/2024
SCALE	AS SHOWN
DESIGNED BY	DW
DRAWN BY	DW
CHECKED BY	KM

**UPPER PACIFIC SIDEWALK IMPROVEMENTS**

PREPARED FOR  
**CITY OF CAPITOLA**

SANTA CRUZ COUNTY  
CA

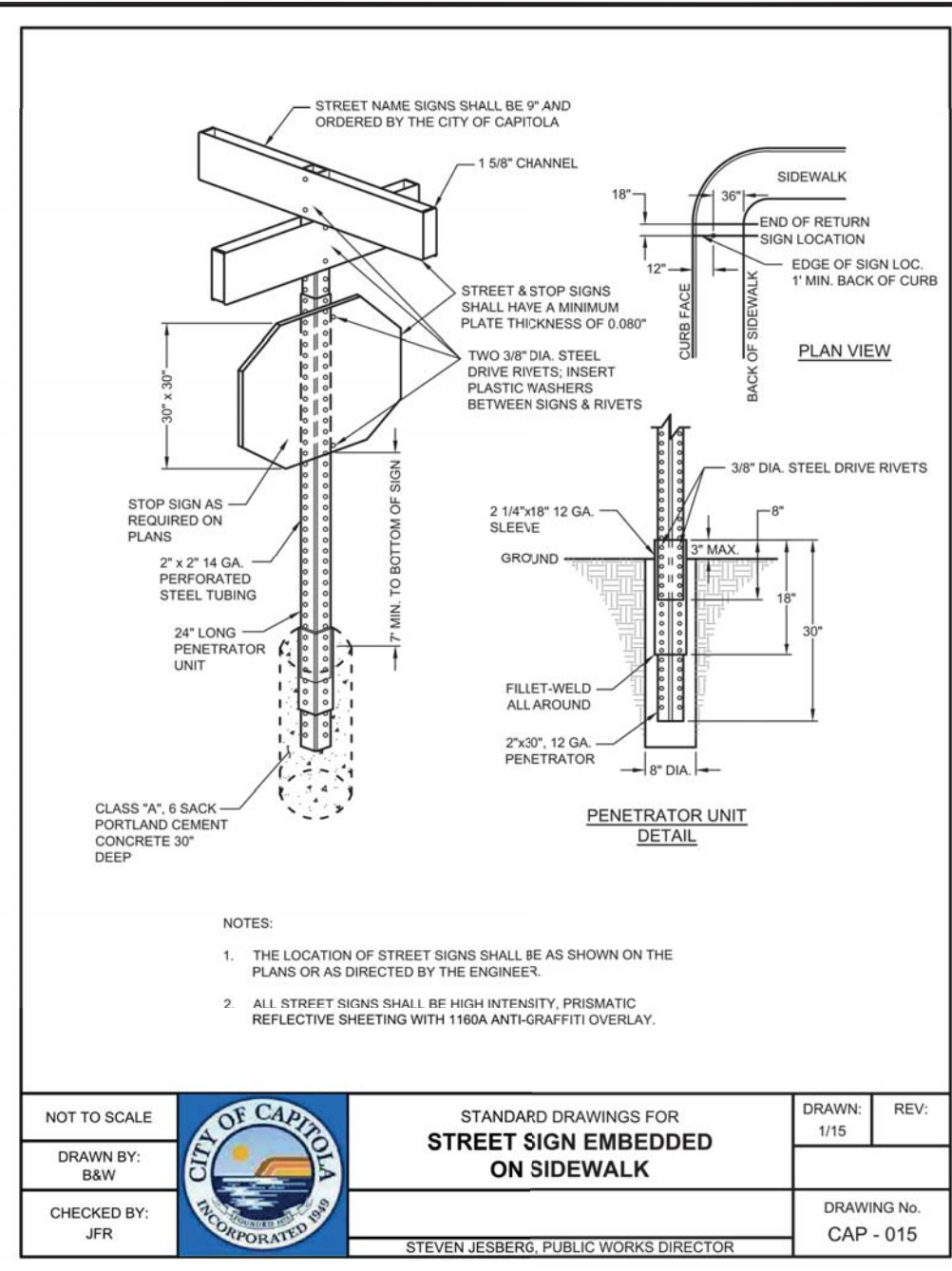
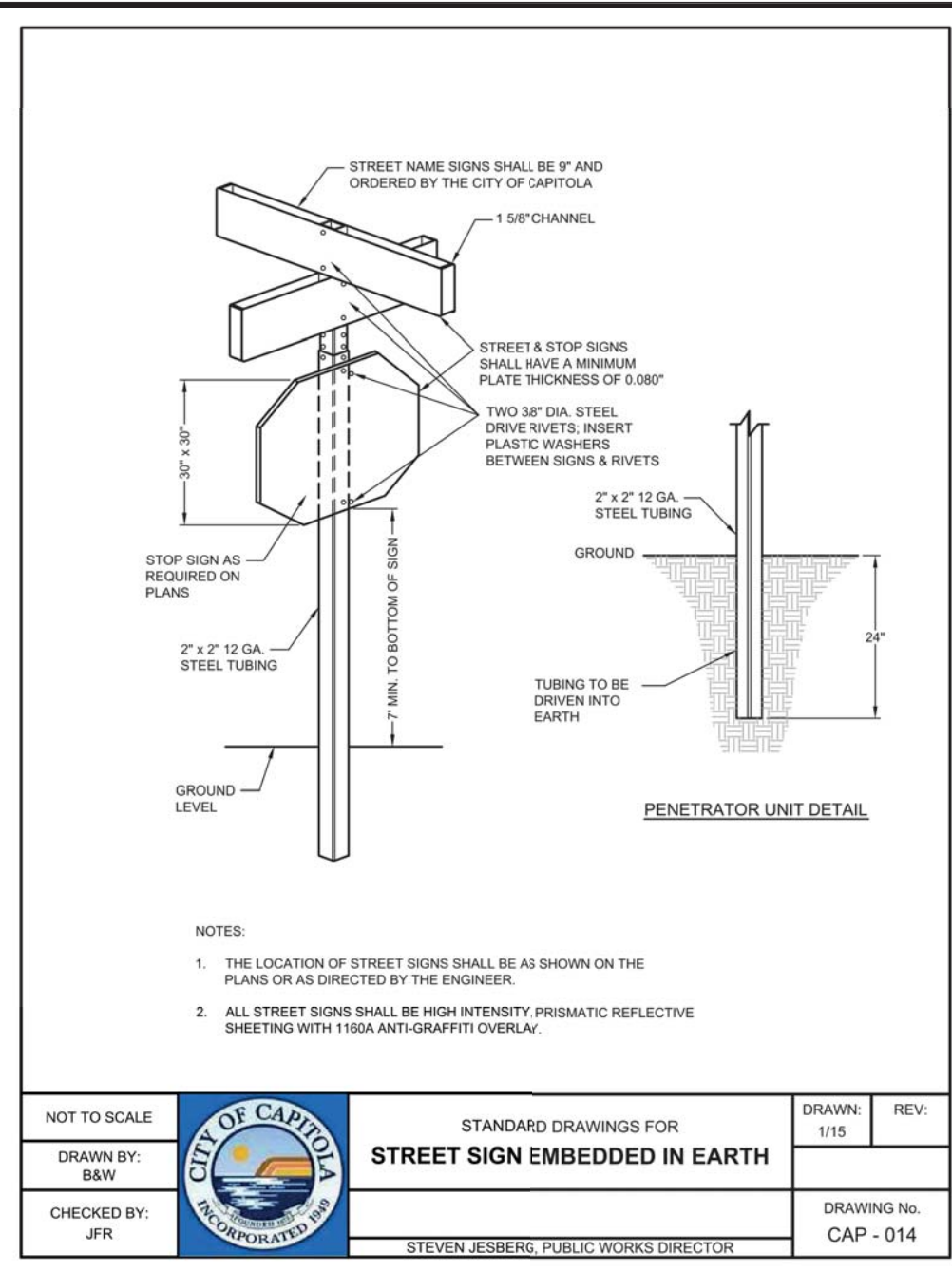
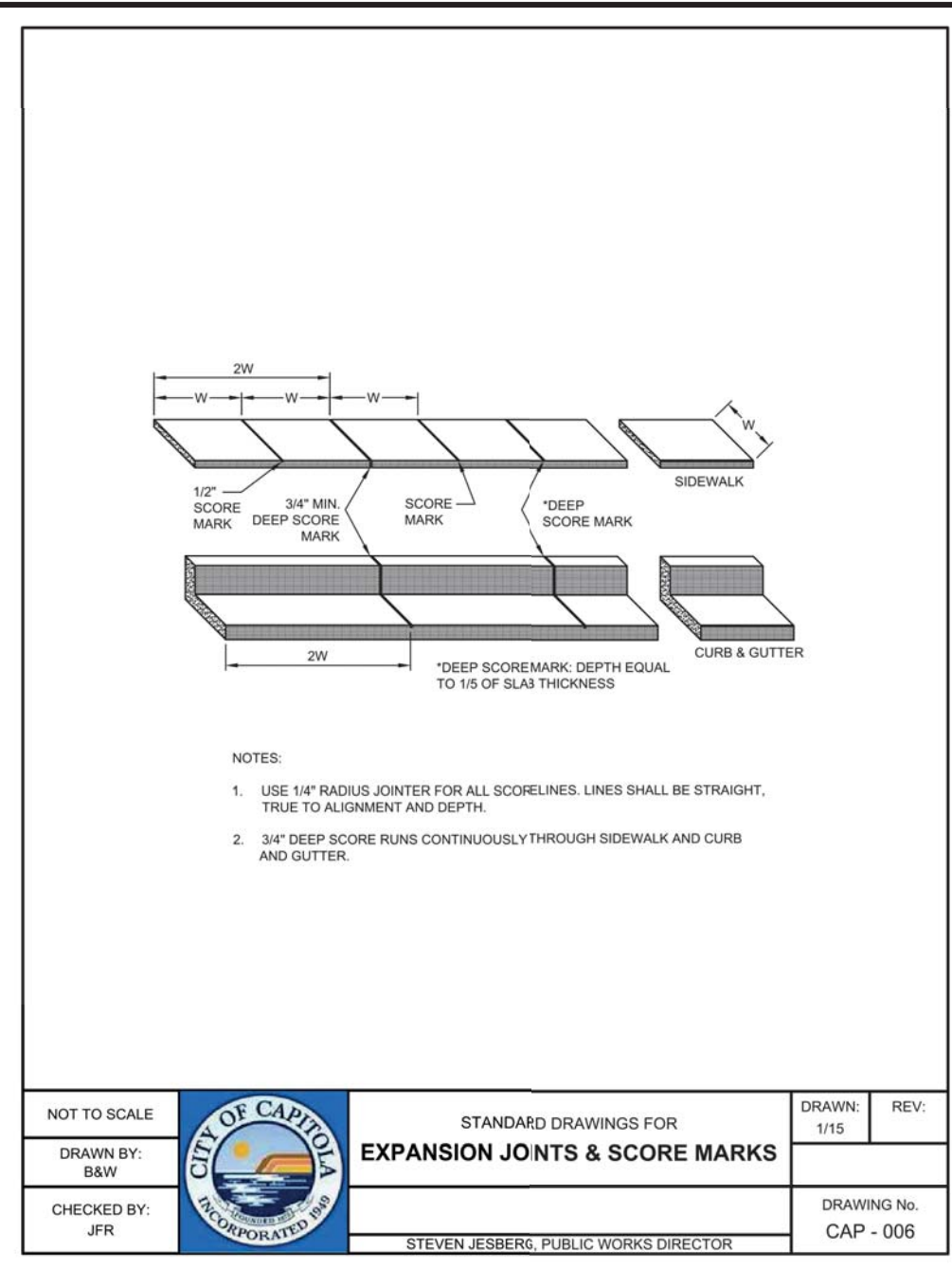
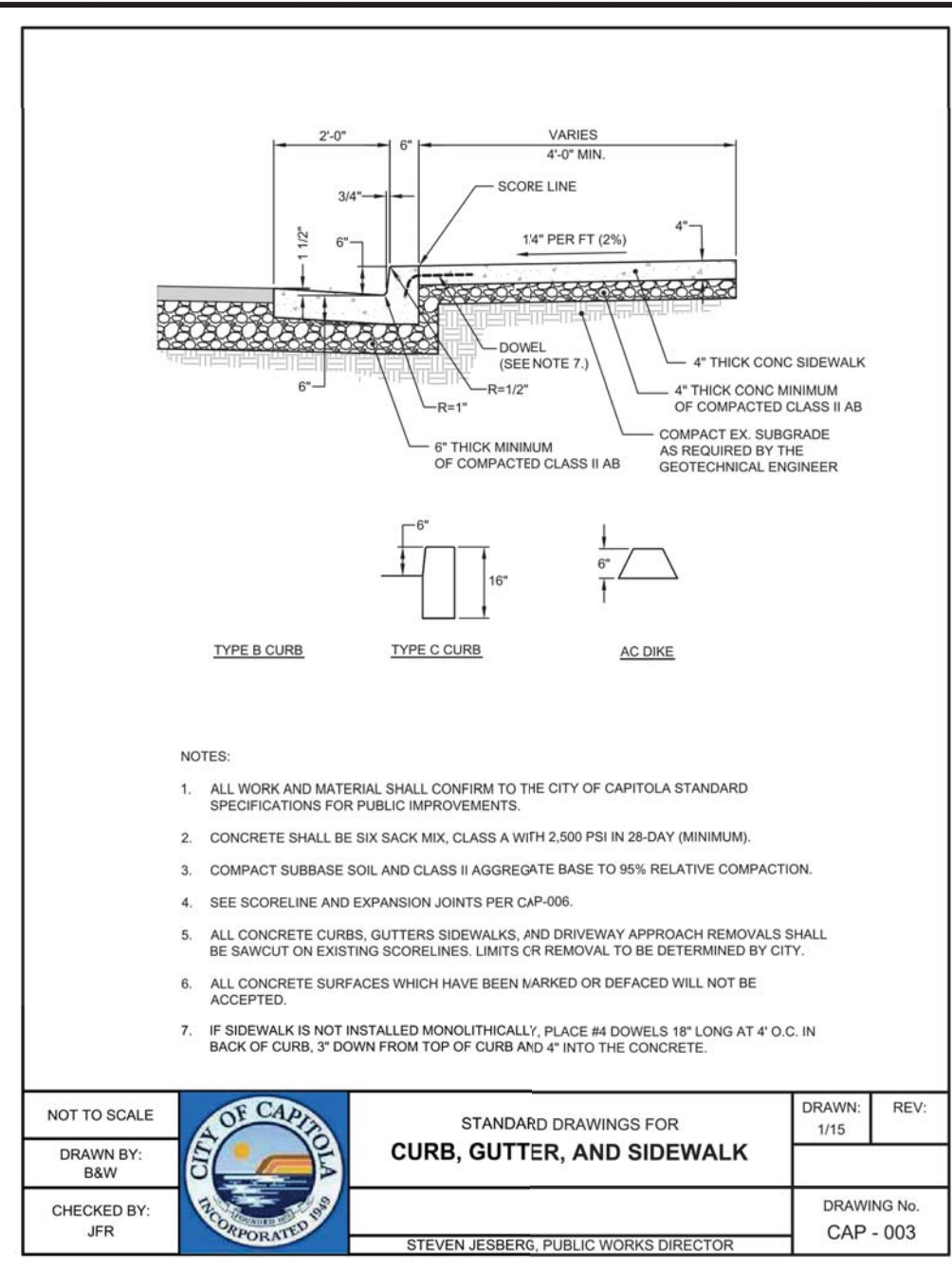
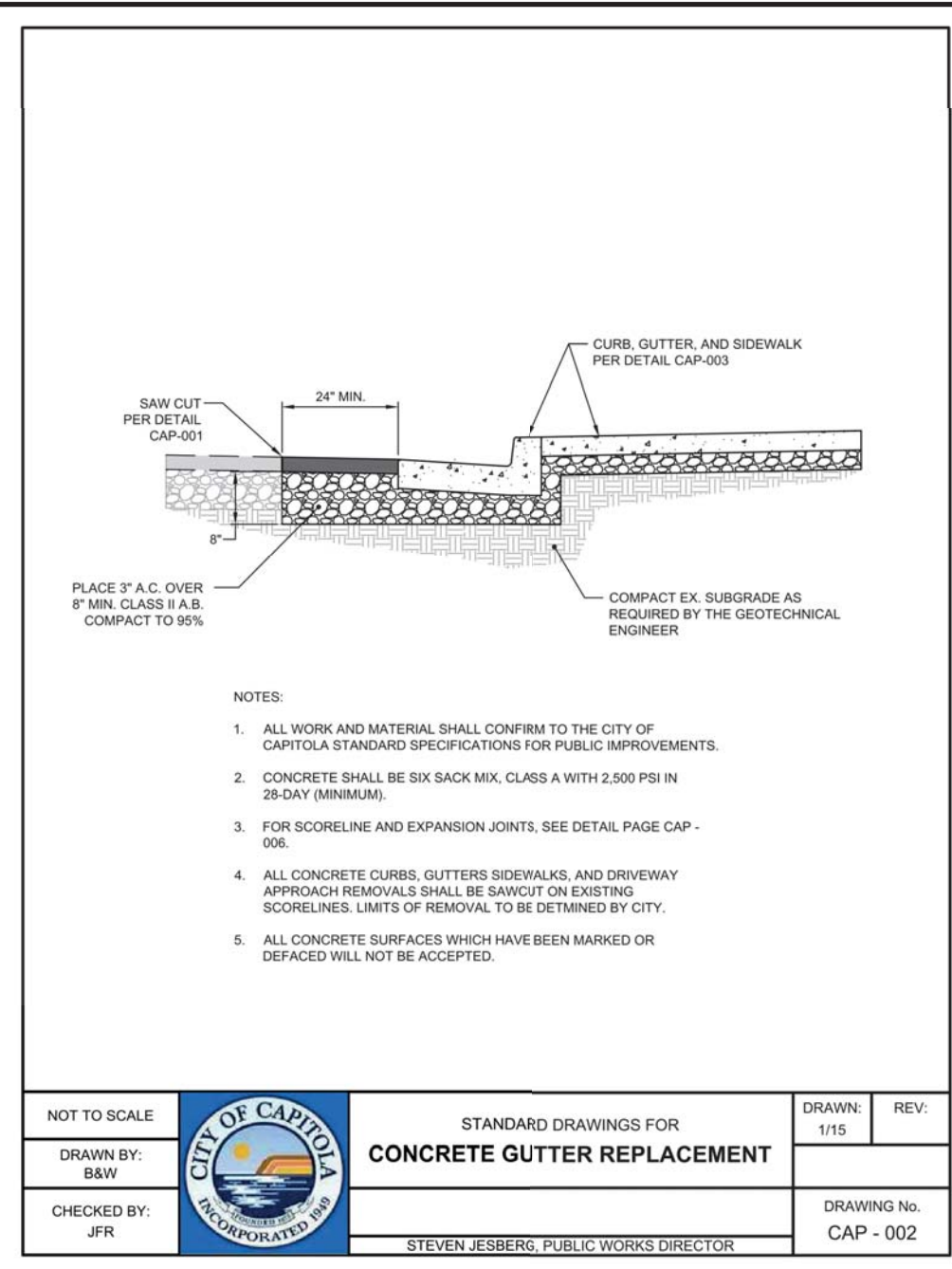
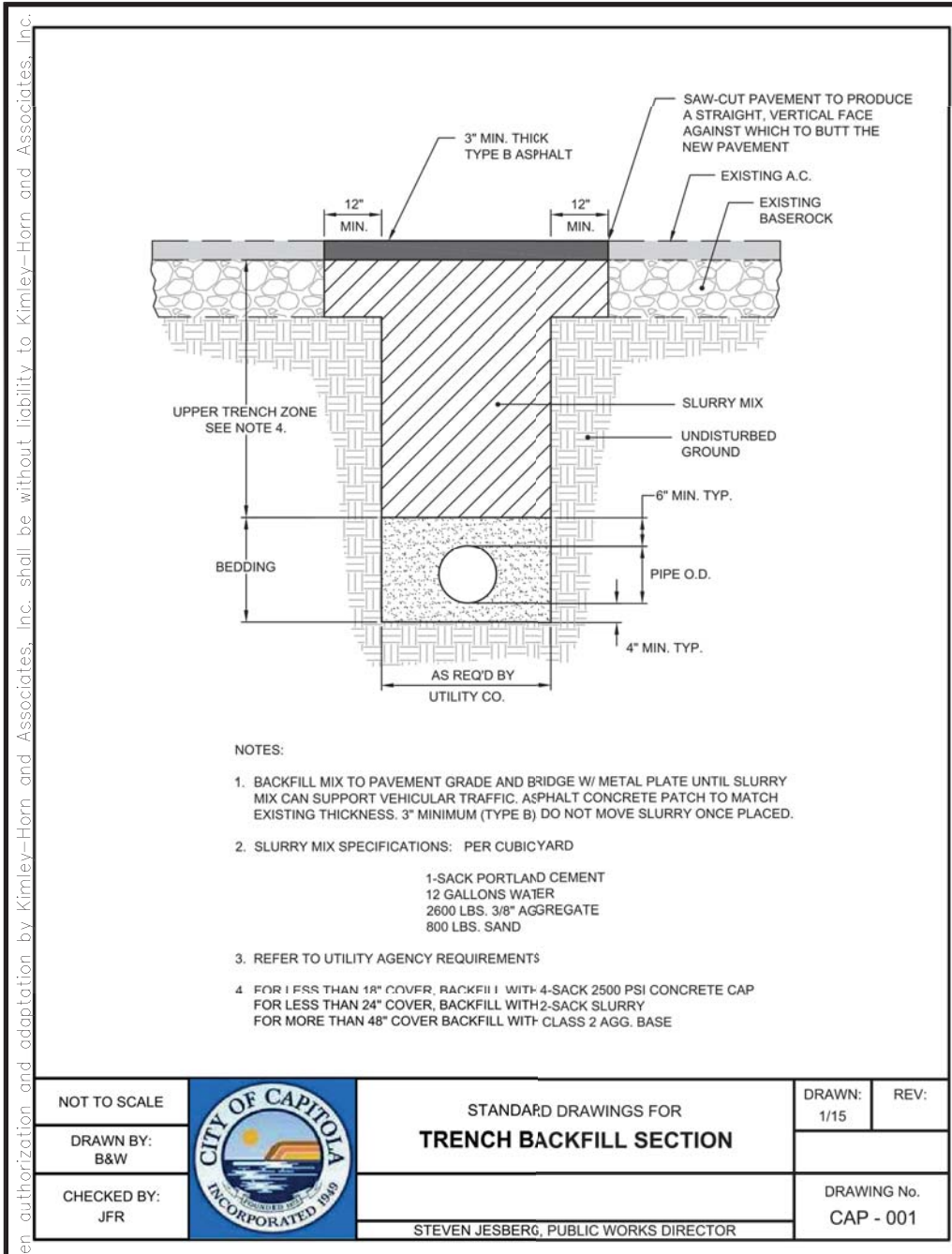


**CONSTRUCTION DETAILS**

SHEET NO. 7  
OF 13 SHEETS

**CD-1**





NOT TO SCALE	CITY OF CAPITOLA	STANDARD DRAWINGS FOR	DRAWN: J/S	REV:
DRAWN BY: BAW		TRENCH BACKFILL SECTION		
CHECKED BY: JFR		STEVEN JESSBERG, PUBLIC WORKS DIRECTOR	DRAWING NO. CAP - 001	

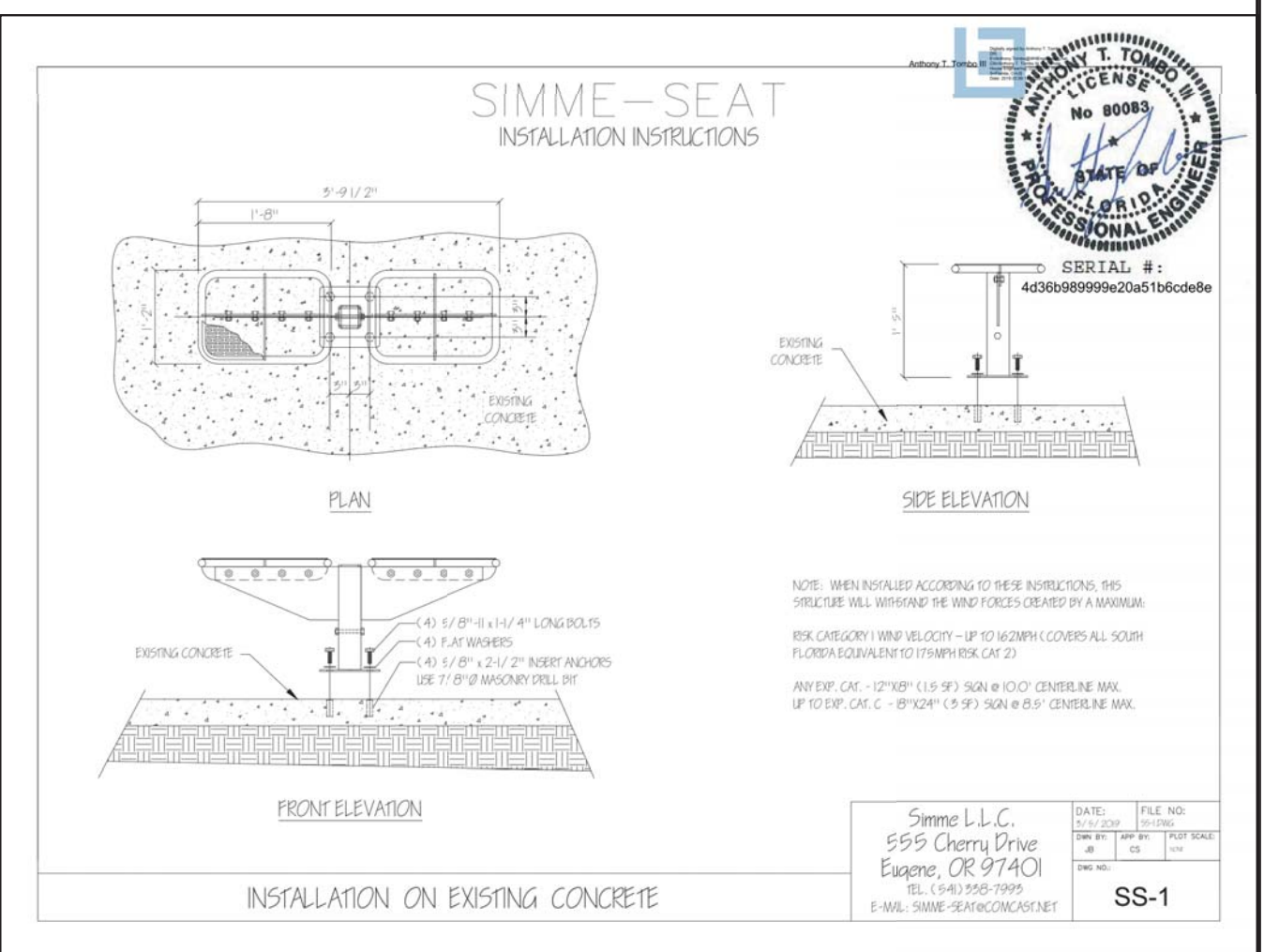
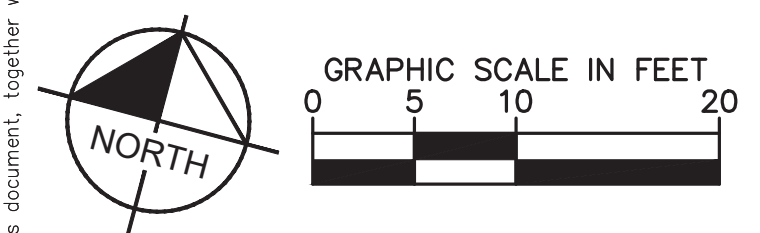
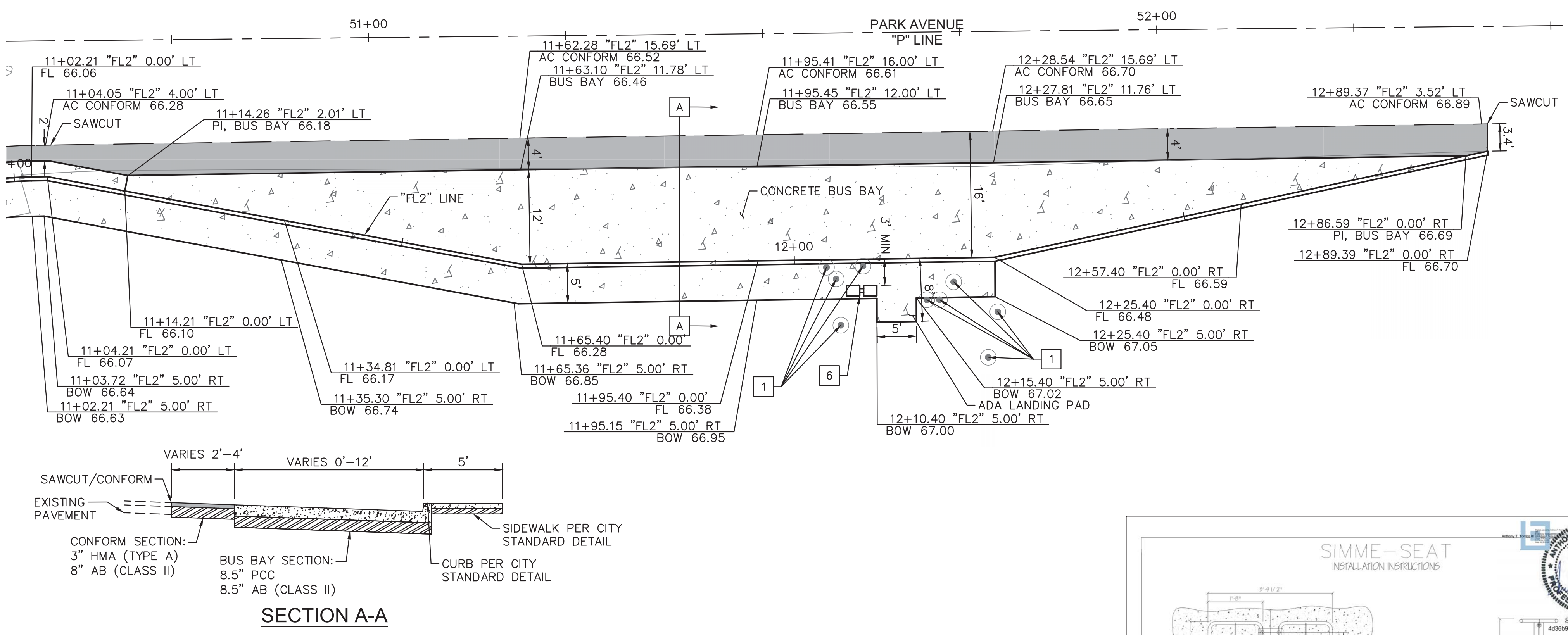
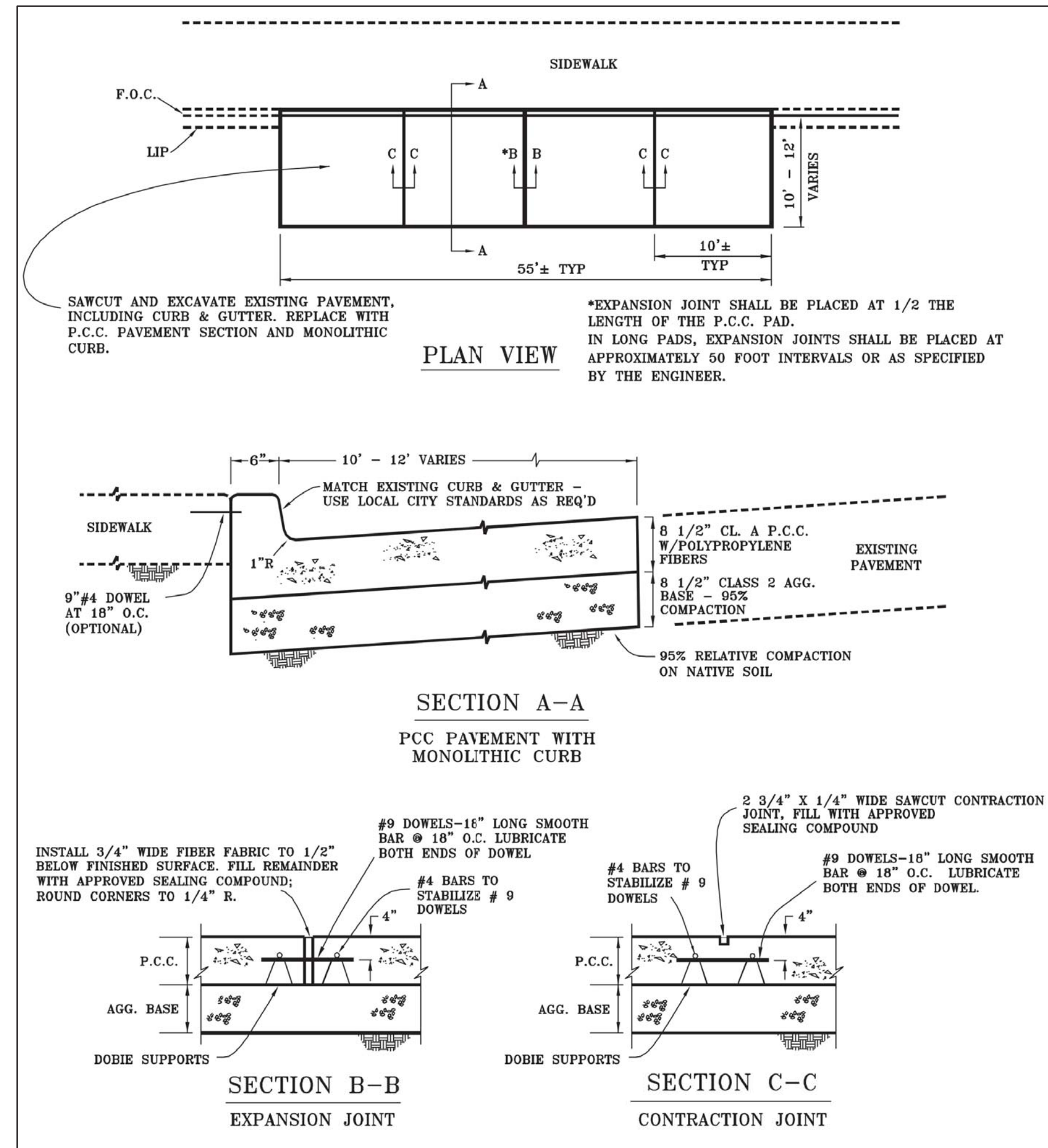
NOT TO SCALE	CITY OF CAPITOLA	STANDARD DRAWINGS FOR	DRAWN: J/S	REV:
DRAWN BY: BAW		CONCRETE GUTTER REPLACEMENT		
CHECKED BY: JFR		STEVEN JESSBERG, PUBLIC WORKS DIRECTOR	DRAWING NO. CAP - 002	

NOT TO SCALE	CITY OF CAPITOLA	STANDARD DRAWINGS FOR	DRAWN: J/S	REV:
DRAWN BY: BAW		CURB, GUTTER, AND SIDEWALK		
CHECKED BY: JFR		STEVEN JESSBERG, PUBLIC WORKS DIRECTOR	DRAWING NO. CAP - 003	

NOT TO SCALE	CITY OF CAPITOLA	STANDARD DRAWINGS FOR	DRAWN: J/S	REV:
DRAWN BY: BAW		EXPANSION JOINTS & SCORE MARKS		
CHECKED BY: JFR		STEVEN JESSBERG, PUBLIC WORKS DIRECTOR	DRAWING NO. CAP - 008	

NOT TO SCALE	CITY OF CAPITOLA	STANDARD DRAWINGS FOR	DRAWN: J/S	REV:
DRAWN BY: BAW		STREET SIGN EMBEDDED IN EARTH		
CHECKED BY: JFR		STEVEN JESSBERG, PUBLIC WORKS DIRECTOR	DRAWING NO. CAP - 014	

NOT TO SCALE	CITY OF CAPITOLA	STANDARD DRAWINGS FOR	DRAWN: J/S	REV:
DRAWN BY: BAW		STREET SIGN EMBEDDED ON SIDEWALK		
CHECKED BY: JFR		STEVEN JESSBERG, PUBLIC WORKS DIRECTOR	DRAWING NO. CAP - 015	



No.	REVISIONS	DATE	BY

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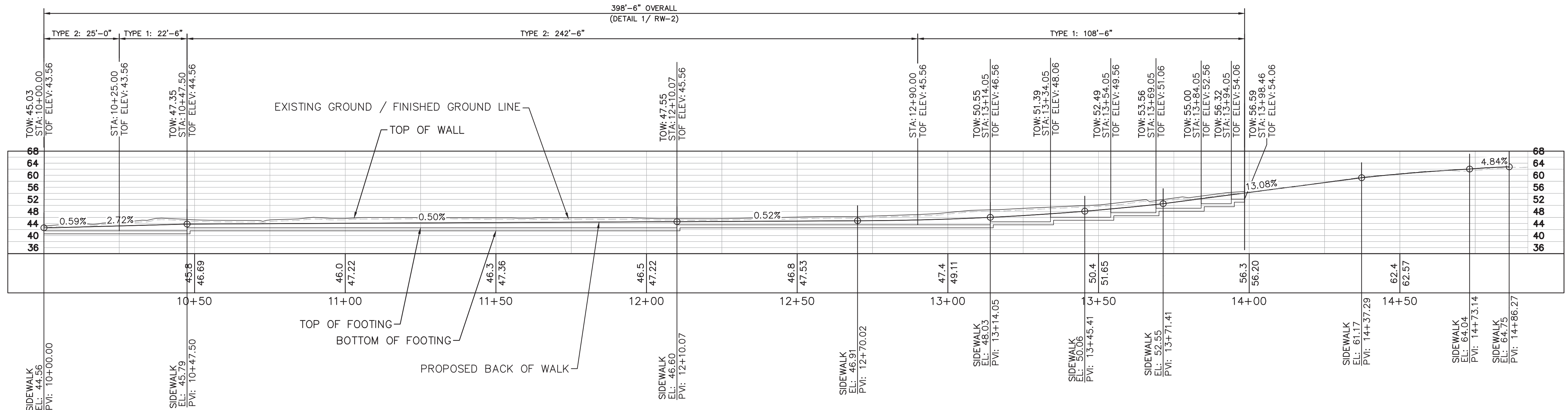
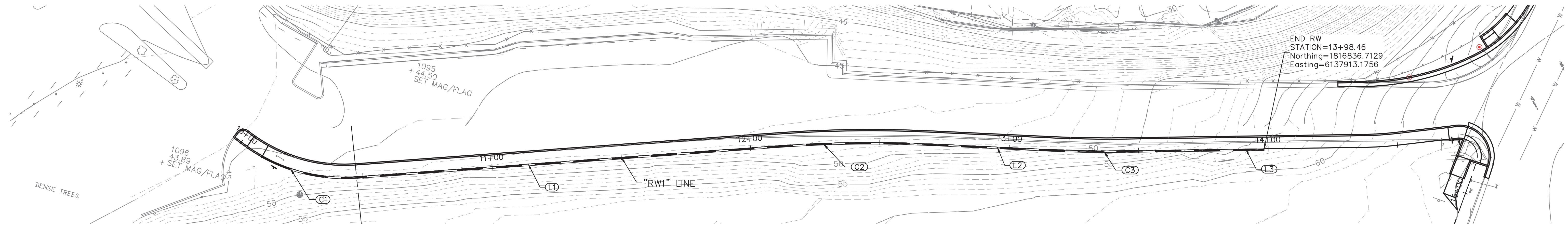
**UPPER PACIFIC SIDEWALK IMPROVEMENTS**  
 PREPARED FOR  
**CITY OF CAPITOLA**  
 SANTA CRUZ COUNTY  
 DATE SIGNED: May 06, 2024



**CONSTRUCTION DETAILS**  
 SHEET NO. 8 OF 13 SHEETS  
**CD-2**



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LINE TABLE			
LINE	NAME	LENGTH	BEARING
L1	RW1	162.57	N70°48'19.67"E
L2	RW1	44.03	N77°44'39.80"E
L3	RW1	91.88	N74°11'10.67"E

CURVE TABLE							
CURVE	NAME	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	RW1	65.00'	47.50'	S88°15'35"E	46.45'	41°52'11"	24.87'
C2	RW1	495.00'	59.95'	N74°16'30"E	59.91'	6°56'20"	30.01'
C3	RW1	505.00'	31.36'	N75°57'55"E	31.36'	3°33'29"	15.69'

**RW 1 PROFILE**  
**"RW1" LINE**  
 1"=20' H  
 1"=20' V

No.	REVISIONS	DATE	BY

**Kimley»Horn**

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 PHONE: 669-800-4130  
 WWW.KIMLEY-HORN.COM

KHA PROJECT	097763140
DATE	2/29/2024
SCALE	AS SHOWN
DESIGNED BY	DW
DRAWN BY	DW
CHECKED BY	JP

**UPPER PACIFIC SIDEWALK IMPROVEMENTS**

PREPARED FOR  
**CITY OF CAPITOLA**

SANTA CRUZ COUNTY CA



**RETAINING WALL PLAN AND PROFILE**

SHEET NO. 9  
 OF 13 SHEETS

**RW-1**



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**DESIGN CRITERIA**

1. BUILDING CODE
  - A. 2022 CALIFORNIA BUILDING CODE (CBC)
2. REFERENCE STANDARDS
  - A. ASCE 7-16: MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES
  - B. ACI 318-19: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
3. DESIGN LOADS
  - A. WIND LOAD
 

BASIC WIND SPEED (3-SECOND GUST)	92 MPH
RISK CATEGORY	II
EXPOSURE	C
  - B. EARTHQUAKE DESIGN DATA
 

RISK CATEGORY	II
IMPORTANCE FACTOR	1.0
SITE CLASS	D
SPECTRAL RESPONSE ACCELERATION $S_s$	1.826
SPECTRAL RESPONSE ACCELERATION $S_1$	0.700
SPECTRAL RESPONSE COEFFICIENTS $S_{DS}$	1.461
SPECTRAL RESPONSE COEFFICIENTS $S_{D1}$	0.793
SEISMIC DESIGN CATEGORY	D

**STRUCTURAL GENERAL NOTES**

1. BEFORE STARTING WORK, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE SITE, AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
2. THE CONTRACTOR SHALL REFER TO THE ENGINEER FOR INSTRUCTIONS FOR ANY DIMENSION NOT GIVEN ON OR OBTAINABLE FROM THE DRAWINGS. THE CONTRACTOR SHALL NOT USE SCALE TO OBTAIN OR VERIFY ANY DIMENSION SHOWN ON THESE DRAWINGS.
3. ALL EXISTING INFORMATION INDICATED ON THE CONSTRUCTION DRAWINGS HAS BEEN PROVIDED BY OTHERS, AND SHOULD NOT BE ASSUMED TO BE ACCURATE. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING DIMENSIONS AND LOCATIONS OF ANY EXISTING ELEMENTS AS NECESSARY TO COMPLETE THE SCOPE OF WORK.
4. THIS STRUCTURAL DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, ARE INSTRUMENTS OF SERVICE AND ARE INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.
5. IT IS UNDERSTOOD THAT THE STRUCTURAL ENGINEER OF RECORD MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, AS TO FINDINGS, DESIGNS, RECOMMENDATIONS, SPECIFICATIONS, OPINION, OR PROFESSIONAL ADVICE, EXCEPT THAT THESE INSTRUMENTS OF SERVICE HAVE BEEN PREPARED IN ACCORDANCE WITH THE CURRENT GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRACTICES.
6. ALL NON-STRUCTURAL ELEMENTS INDICATED ON THE STRUCTURAL DRAWINGS HAVE BEEN SHOWN IN GENERAL RELATIONSHIP TO THE STRUCTURAL ELEMENTS. ACCORDINGLY, THEY SHALL NOT BE ASSUMED TO BE ACCURATE AND REFERENCE MUST BE MADE TO THE APPROPRIATE CONSULTANT(S) PLANS AND SPECIFICATIONS.
7. WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER OF RECORD IS REQUIRED FOR ALL FIELD MODIFICATIONS TO THE STRUCTURAL SYSTEM INCLUDING, BUT NOT LIMITED TO, RETAINING WALLS AND SCREENWALLS, CUTTING OR DRILLING THROUGH ANY STRUCTURAL ELEMENT, ETC.

**CONSTRUCTION SAFETY**

1. IT IS UNDERSTOOD THAT THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK ON THE PROJECT. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THE PERSONS AND PROTECT THEM AGAINST INJURY. LIKEWISE, THE CONTRACTOR SHALL PROTECT ALL PROPERTY AGAINST DAMAGE AND LOSS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND ORDERS OF ANY PUBLIC BODY HAVING JURISDICTION FOR THE SAFETY OF PERSONS AND PROPERTY.
3. THE CONTRACTOR'S DUTIES AND RESPONSIBILITIES FOR THE SAFETY AND PROTECTION OF THE WORK SHALL CONTINUE UNTIL SUCH TIME AS THE WORK IS SATISFACTORILY COMPLETED, AND THE ENGINEER HAS ISSUED A NOTICE TO THAT EFFECT TO THE OWNER AND THE CONTRACTOR.
4. ALL STRUCTURAL MEMBERS SHOWN HEREIN HAVE BEEN DESIGNED FOR THE FINAL DESIGN LOADS PROVIDED IN THIS DOCUMENT IN THE FINAL ERECTED CONDITION SHOWN HEREIN. THE CONTRACTOR IS RESPONSIBLE FOR CONDITIONS ENCOUNTERED DURING ERECTION AND HANDLING, AND NECESSARY TEMPORARY BRACING AND SHORING. SHORING AND BRACING SHALL BE DESIGNED TO PRECLUDE ANY STRUCTURAL ELEMENT FROM BEING OVERSTRESSED AT ANY POINT DURING CONSTRUCTION.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING CONSTRUCTION MEANS AND METHODS THAT WILL NOT IMPACT ADJACENT INFRASTRUCTURE.

**SHOP DRAWINGS**

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR THEIR REVIEW IN ACCORDANCE WITH A SCHEDULE OF SUBMITTALS ACCEPTABLE TO THE ENGINEER. THESE SHOP DRAWINGS SHALL HAVE BEEN CHECKED BY AND STAMPED WITH THE APPROVAL OF THE CONTRACTOR, AND IDENTIFIED AS THE ENGINEER MAY REQUIRE. THE DATA SHOWN ON THE SHOP DRAWINGS SHALL BE COMPLETE WITH RESPECT TO DIMENSIONS, DESIGN CRITERIA, AND DULY SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
2. REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS LIMITED TO COMPLIANCE OF THE COMPLETED STRUCTURE WITH THE DESIGN CONCEPT AND INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DIMENSIONS, QUANTITIES, PERFORMANCE, SAFETY, COORDINATION WITH OTHER WORK, AND ALL OTHER REQUIREMENTS OF THE CONTRACT DOCUMENTS. REVIEW DOES NOT AUTHORIZE CHANGES TO THE CONTRACT.

**CAST IN PLACE CONCRETE**

1. PROVIDE CONCRETE ATTAINING A MINIMUM COMPRESSIVE STRENGTH AT 28 (f'c) AS FOLLOWS, UNLESS NOTED OTHERWISE:

USE	DESIGN	WEIGHT	MAX. AGGREGATE SIZE	MAX. W/C	SLUMP	INSPECTION
FOOTINGS & RETAINING WALLS	3,000 PSI	NORMAL WEIGHT	1"	0.5	4" ± 1 MAX.	YES

2. ALL CONCRETE SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH CBC CHAPTER 19 & ACI-318, LATEST CODE ADOPTED EDITION.
3. ALL REINFORCING SHALL BE DETAILED, FABRICATED & PLACED IN ACCORDANCE WITH CRSI "MANUAL OF STANDARD PRACTICE", LATEST EDITION.
4. SPACING OF CONSTRUCTION OR CONTROL JOINTS IN WALLS EXPOSED TO VIEW SHALL NOT EXCEED 30 FEET UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. CUT HALF OF THE HORIZONTAL REINFORCING AT CONTROL JOINTS.

5. SLEEVES EMBEDDED IN SLABS AND WALLS SHALL BE LOCATED CLEAR BETWEEN REINFORCING BARS AND SHALL MAINTAIN CLEAR SPACING EQUAL TO THE DIAMETER OF THE LARGEST SLEEVE IN ANY DIRECTION. SLEEVE GROUPS THAT DO NOT COMPLY WITH THE ABOVE REQUIREMENTS SHALL BE CONSIDERED AS AN OPENING AND REINFORCED PER NOTE BELOW.
6. UNLESS NOTED OTHERWISE ON THE DRAWINGS: PROVIDE EXTRA REINFORCING ON ALL SIDES OF ALL MISCELLANEOUS WALL AND SLAB OPENINGS EQUAL TO ONE HALF THE INTERRUPTED REINFORCING BARS EACH SIDE BUT NOT LESS THAN 2 - #4 FOR EACH LAYER OF REINFORCEMENT. EXTEND BARS CLASS 'B' LAP LENGTH BUT NOT LESS THAN 2 FEET BEYOND EDGE OF OPENINGS. PROVIDE 2 - #4x4'-0" DIAGONAL BARS AT EACH CORNER FOR EACH LAYER OF REINFORCEMENT.
7. IN CAST-IN-PLACE CONCRETE WORK, NO OPENINGS SHALL BE PERMITTED IN SLABS WITHIN A DISTANCE OF EIGHT INCHES FROM THE EDGE OF SLAB.
8. NO DRILLING THROUGH WALLS SHALL BE CARRIED OUT EXCEPT WITH THE SPECIFIC APPROVAL OF THE ENGINEER. SUCH APPROVAL, IF GRANTED, SHALL BE ON A CASE BY CASE BASIS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING REINFORCEMENT LAYOUT USING NON-DESTRUCTIVE TESTING PRIOR TO DRILLING INTO CAST CONCRETE.
9. DETAILING OF REBAR SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE ACI DETAILING MANUAL, AND CONCRETE REINFORCING INSTITUTE'S LATEST EDITION OF "MANUAL OF STANDARD PRACTICE". ALL SHOP DRAWINGS PERTAINING TO REBAR DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR THEIR REVIEW. CONCRETE MIX DESIGN FOR ALL CONCRETE WORK IS REQUIRED TO BE SUBMITTED TO THE ENGINEER FOR REVIEW.
10. CONCRETE SUPPLIER SHALL HAVE A QUALITY CONTROL PROCEDURE FOR THE PRODUCTION OF ALL CONCRETE, WHICH MUST BE ACCEPTABLE TO THE ENGINEER AND MEETS CURRENT ACI STANDARDS.
11. CONSTRUCTION JOINTS SHALL BE AS APPROVED BY THE STRUCTURAL ENGINEER.
12. MATERIAL PROPERTIES:
 

A. ALL BARS UNLESS NOTED	ASTM	F <sub>y</sub> , KSI
B. TIES & STIRRUP	A615	60
C. WELDED WIRE FABRIC (SMOOTH)	A185	60

14. LAP SPICES ARE ALL CLASS B TENSION LAP SPICES, UNO.
15. PROVIDE A 3/4" CHAMFER ON ALL EXPOSED CORNERS OF CONCRETE.
16. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
 

A. CONCRETE CAST AGAINST GROUND	3 IN
B. CONCRETE NOT CAST AGAINST SOIL BUT IN CONTACT WITH GROUND	2 IN
C. CONCRETE EXPOSED TO WEATHER	1 1/2 IN

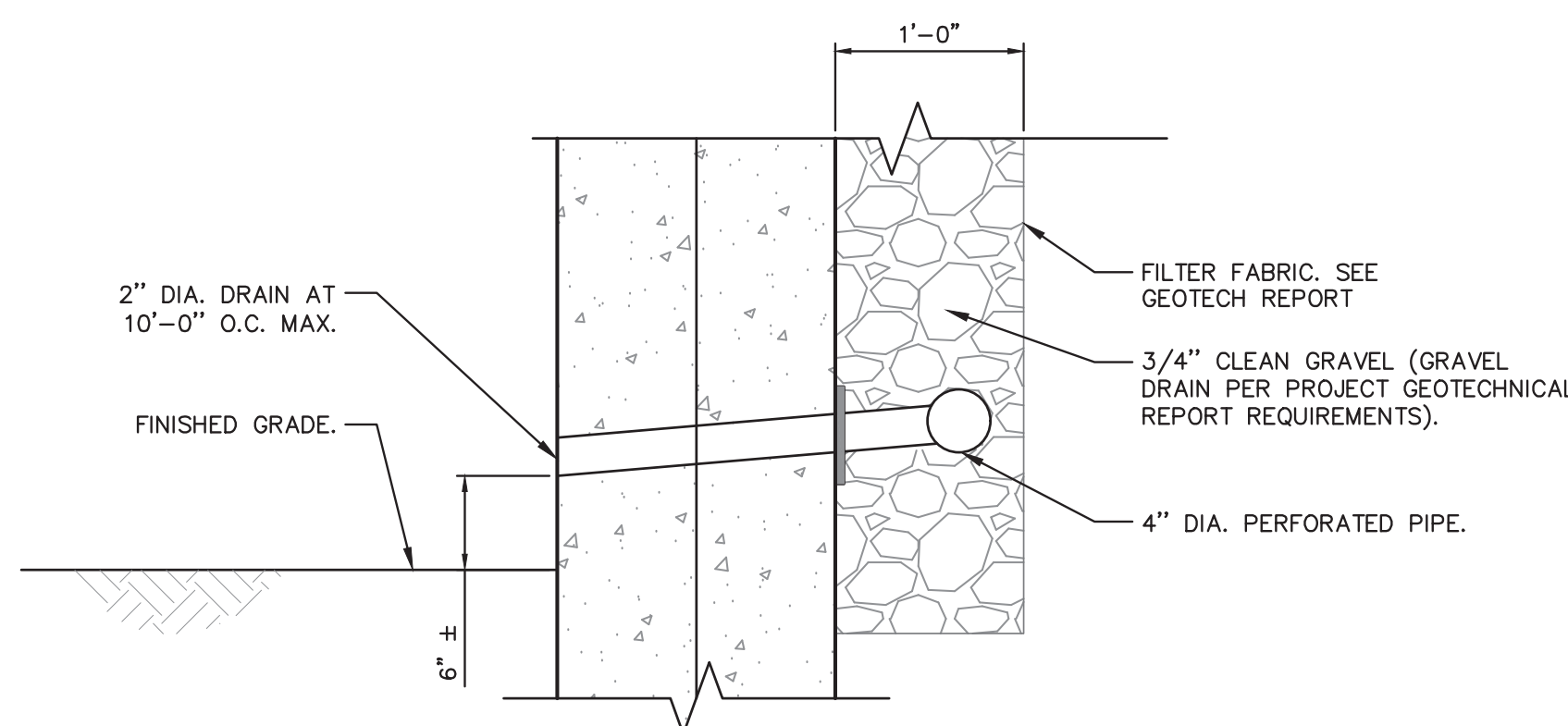
**SPECIAL INSPECTIONS**

1. THE OWNER WILL ENGAGE A SPECIAL INSPECTOR AND QUALIFIED TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS, INSPECTIONS AND PREPARE TEST REPORTS.
2. THE GENERAL CONTRACTOR SHALL ASSIST AND COOPERATE WITH AN INDEPENDENT TESTING LABORATORY (TO BE RETAINED BY THE OWNER) WHICH SHALL CONDUCT ALL THE SPECIFIED TESTS REQUIRED FOR THE PROJECT AND REPORT THE RESULTS OF THESE TESTS DIRECTLY AND PROMPTLY TO THE ENGINEER FOR THEIR REVIEW.
3. CONTRACTOR SHALL NOTIFY SPECIAL INSPECTOR AND TESTING AGENCY 48 HOURS IN ADVANCE OF ITEMS REQUIRED FOR SPECIAL INSPECTION.
4. ALL SPECIAL INSPECTION MONTHLY REPORTS SHALL BE SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE STATE OF CALIFORNIA WHO HAS RESPONSIBLE CHARGE OF THE SPECIAL INSPECTIONS PROGRAM.
5. THE FOLLOWING SPECIAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH 2022 CBC REQUIREMENTS:
  - A. CONCRETE CONSTRUCTION PER TABLE 1705.3
  - B. SOILS PER TABLE 1705.6

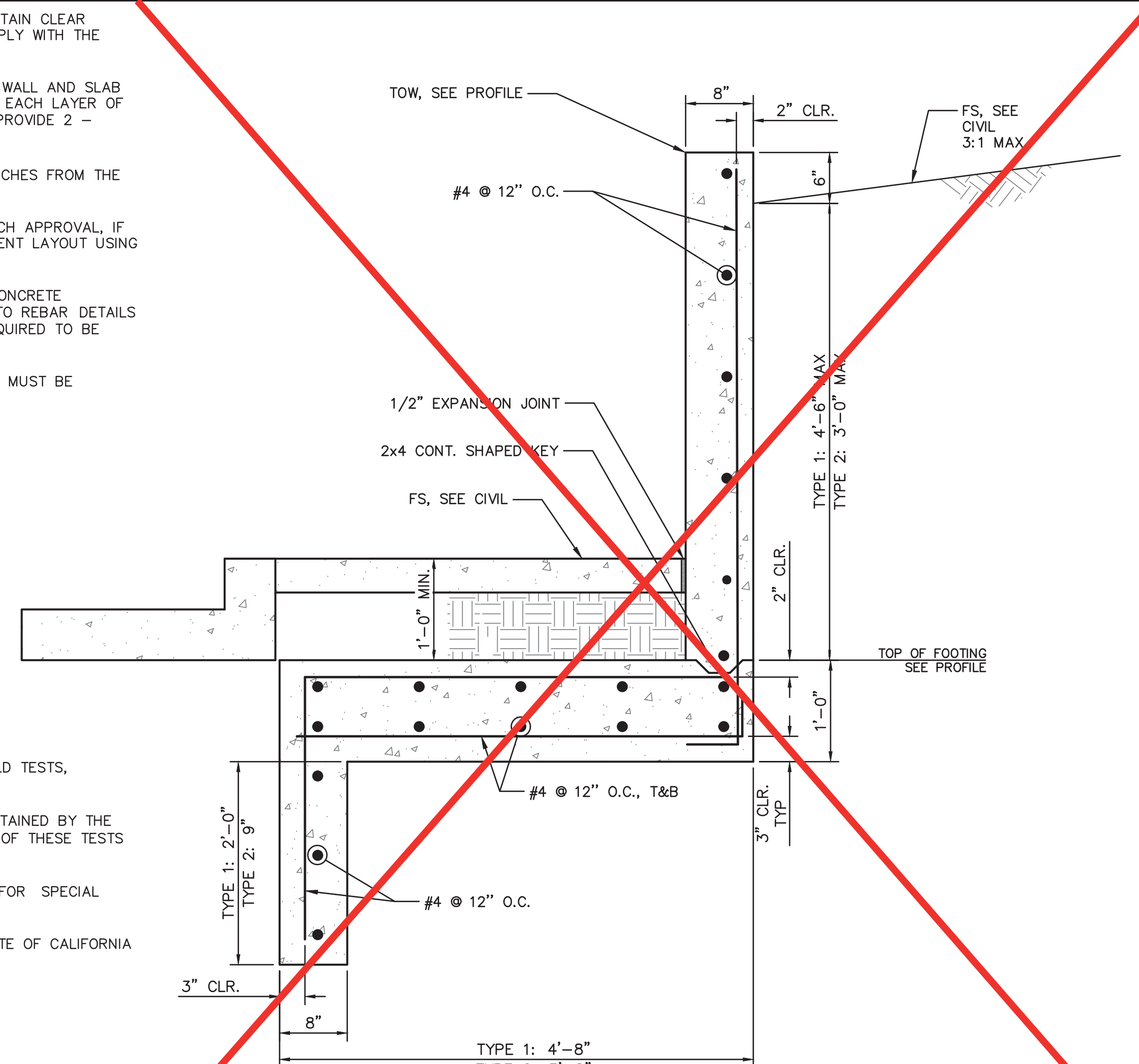
**FOUNDATIONS**

1. RETAINING WALL AND FOUNDATION DESIGN HEREIN IS BASED ON PROJECT GEOTECHNICAL REPORT TITLED "GEOTECHNICAL INVESTIGATION - DESIGN PHASE" PREPARED BY ALL EARTH GEOTECHNICAL INC., DATED JANUARY 16, 2024.
2. SOIL CRITERIA:
 

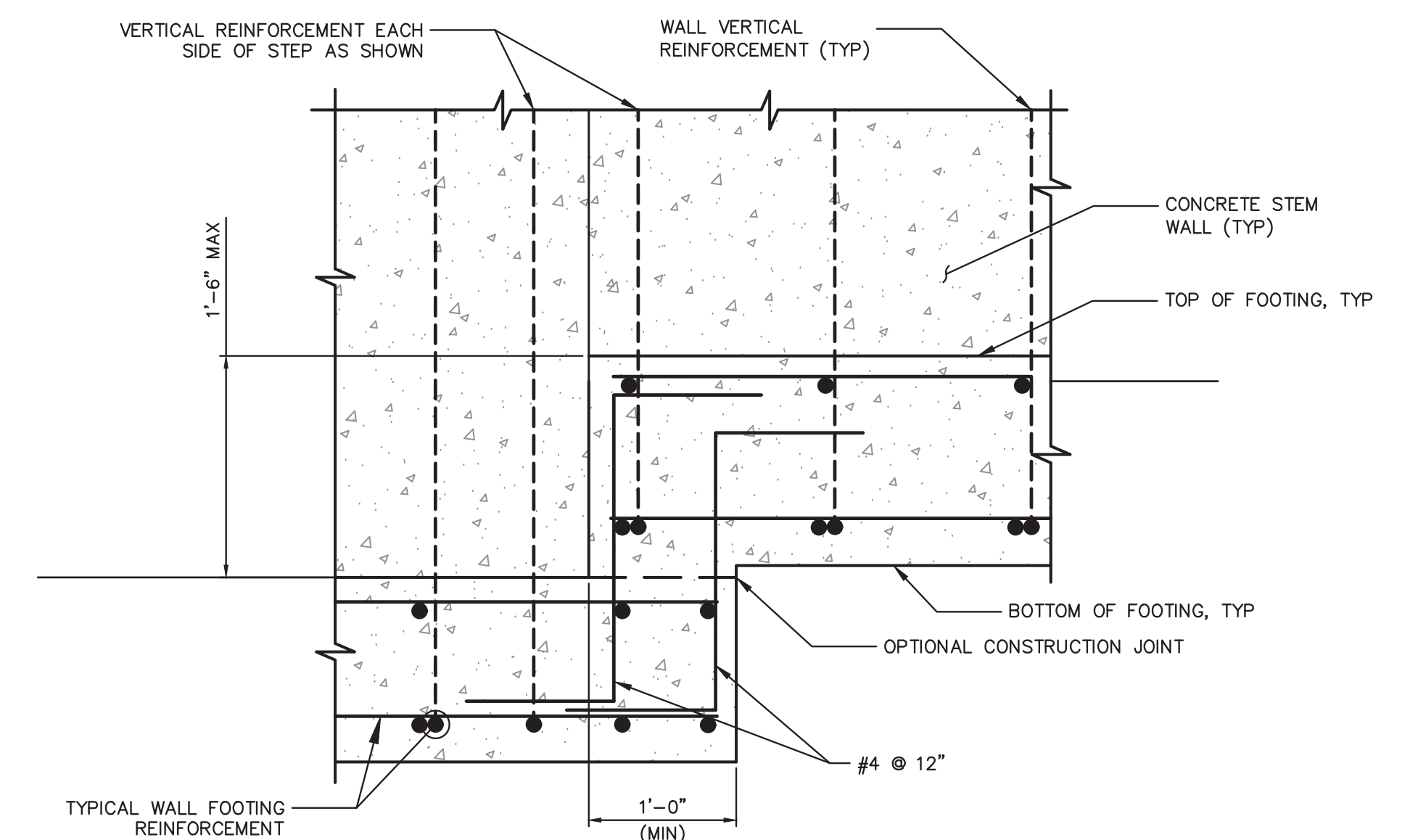
NET ALLOWABLE BEARING PRESSURE	2500 PSF (1/3 INCREASE ALLOWED FOR TRANSIENT SEISMIC AND WIND LOADS)
ACTIVE EARTH PRESSURE (DRAINED)	103 PSF/FT
ALLOWABLE PASSIVE EARTH PRESSURE	252 PSF/FT
FRICTION COEFFICIENT	0.3
3. CONTRACTOR SHALL FOLLOW ALL FOUNDATION AND GEOTECHNICAL RECOMMENDATIONS OF THE AFOREMENTIONED PROJECT GEOTECHNICAL REPORT.
4. ALL EXCAVATIONS SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS, INCLUDING OSHA REQUIREMENTS. THE RESPONSIBILITY FOR EXCAVATION SAFETY AND STABILITY LIES SOLELY WITH THE CONTRACTOR.
5. BACKFILL OF RETAINING WALLS AND SCREENWALLS SHALL BE PERFORMED IN ACCORDANCE WITH RECOMMENDATIONS OF THE AFOREMENTIONED PROJECT GEOTECHNICAL REPORT.



**3 TYPICAL DRAINAGE DETAIL**  
SCALE: 1"=1'-0"



**1 RETAINING WALL SECTION**  
SCALE: 1"=1'-0"



**2 TYPICAL FOOTING STEP**  
SCALE: 1"=1'-0"

No.	REVISIONS	DATE	BY

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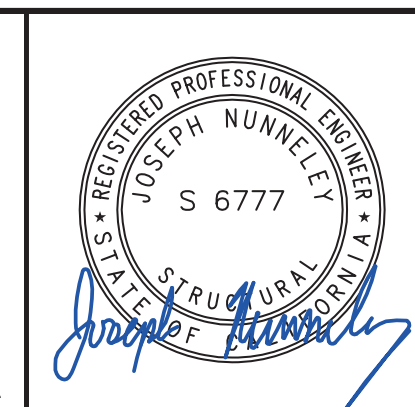
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PHONE: 669-800-4130  
WWW.KIMLEY-HORN.COM

KHA PROJECT	097763140
DATE	2/29/2024
SCALE	AS SHOWN
DESIGNED BY	DW
DRAWN BY	DW
CHECKED BY	JP

**UPPER PACIFIC SIDEWALK IMPROVEMENTS**

PREPARED FOR  
**CITY OF CAPITOLA**

SANTA CRUZ COUNTY CA



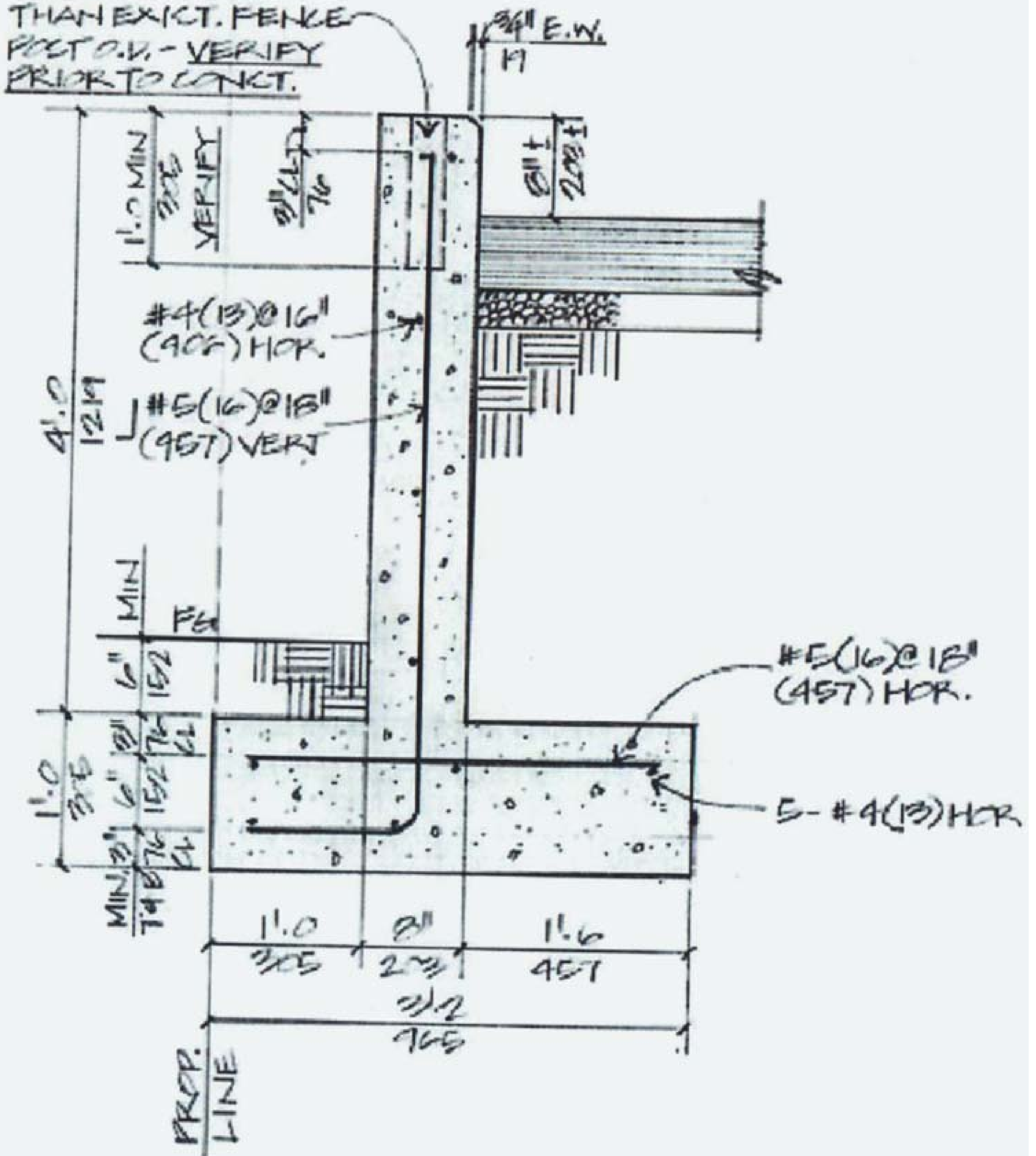
**RETAINING WALL NOTES AND DETAILS**

SHEET NO. 10  
OF 13 SHEETS

**RW-2**

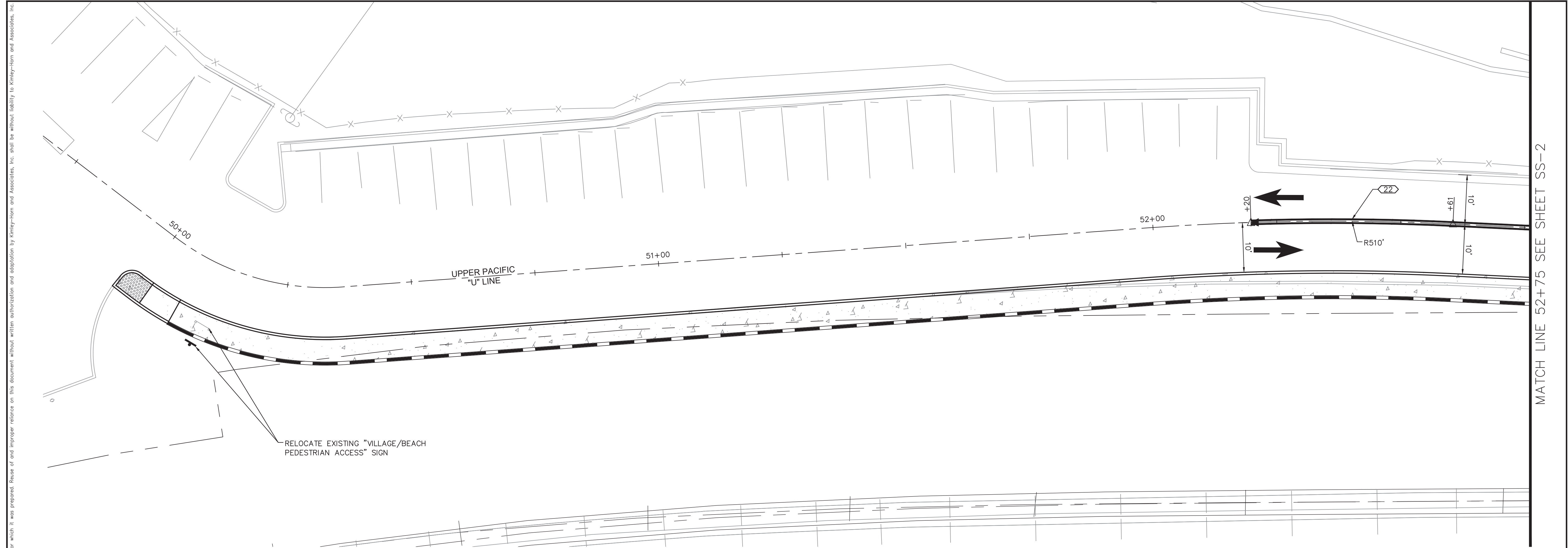


PIPE CLEEVE - I.D.  
TO BE 1/2" LARGER  
THAN EXIST. FENCE  
POST O.D. - VERIFY  
PRIOR TO CONCT.



1 RETAINING WALL SECTION





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**GENERAL SIGNING AND STRIPING NOTES**

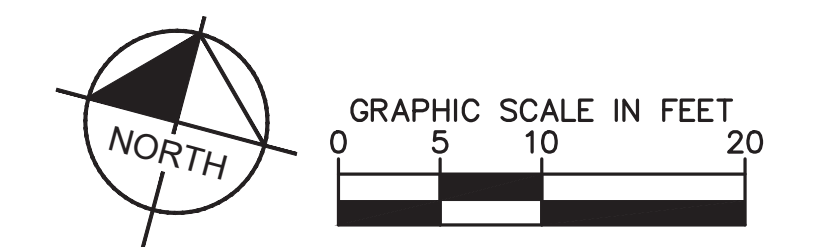
1. ALL EXISTING SIGNS SHALL BE PROTECTED IN PLACE UNLESS SPECIFIED FOR REMOVAL OR RELOCATION.
2. ALL EXISTING SIGNS SPECIFIED FOR REMOVAL SHALL NOT BE REMOVED UNTIL NO LONGER PERTINENT TO TRAFFIC CONTROL.
3. ALL EXISTING PAVEMENT DELINEATION CONFLICTING WITH PROPOSED STRIPING SHALL BE REMOVED PRIOR TO NEW STRIPING INSTALLATION.
4. ALL PAVEMENT DELINEATION MUST BE IN ACCORDANCE WITH THE CURRENT VERSION OF THE CALIFORNIA MUTCD AND CALTRANS STANDARD PLANS.
5. ALL STRIPING DIMENSIONS SHOWN ARE MEASURED FROM: (1) STRIPE CENTERLINE TO STRIPE CENTERLINE OR (2) TO TOP OF CURB TO STRIPE CENTERLINE WHICHEVER SCENARIO IS CLOSER.

**LEGEND**

- EXISTING SIGN
- PROPOSED SIGN
- EXISTING STRIPING DETAIL
- PROPOSED STRIPING DETAIL
- STRIPING CHANGE
- STRIPING LIMIT
- △ ANGLE POINT
- PM PAVEMENT MARKING

**STRIPING AND MARKING TABLE**

DETAIL	PATTERN OR LEGEND	LF	SQFT
22	CENTERLINE	781	—
38A	CHANNELIZING LINE	47	—
39	BIKE LANE LINE (INCLUDES BUFFER)	184	—
39A	INTERSECTION LINE (BIKE LANE)	281	—
PM	"STOP" MARKING	—	132
PM	"ONLY" MARKING	—	22
PM	STOP BAR MARKING	—	86
PM	CONTINENTAL CROSSWALK MARKING	—	425
PM	BIKE SYMBOL/ARROW MARKING	—	13
PM	TYPE I ARROW	—	42
PM	TYPE IV ARROW	—	15
PM	TYPE VII ARROW	—	27
PM	SHARROW	—	24
PM	GREEN PAINT FOR BIKE LANE	—	688
TOTAL		1293	1474

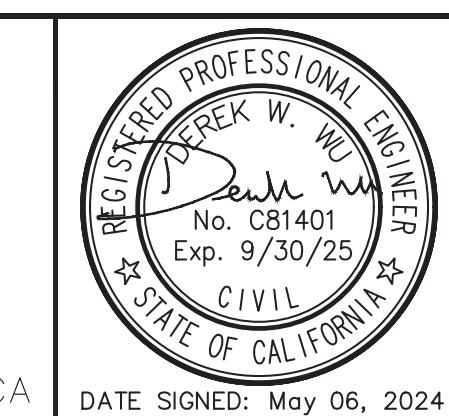


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KHA PROJECT  
097763140  
 DATE  
4/29/2024  
 SCALE AS SHOWN  
 DESIGNED BY DW  
 DRAWN BY DW  
 CHECKED BY KM

**UPPER PACIFIC SIDEWALK IMPROVEMENTS**  
 PREPARED FOR  
**CITY OF CAPITOLA**  
 SANTA CRUZ COUNTY

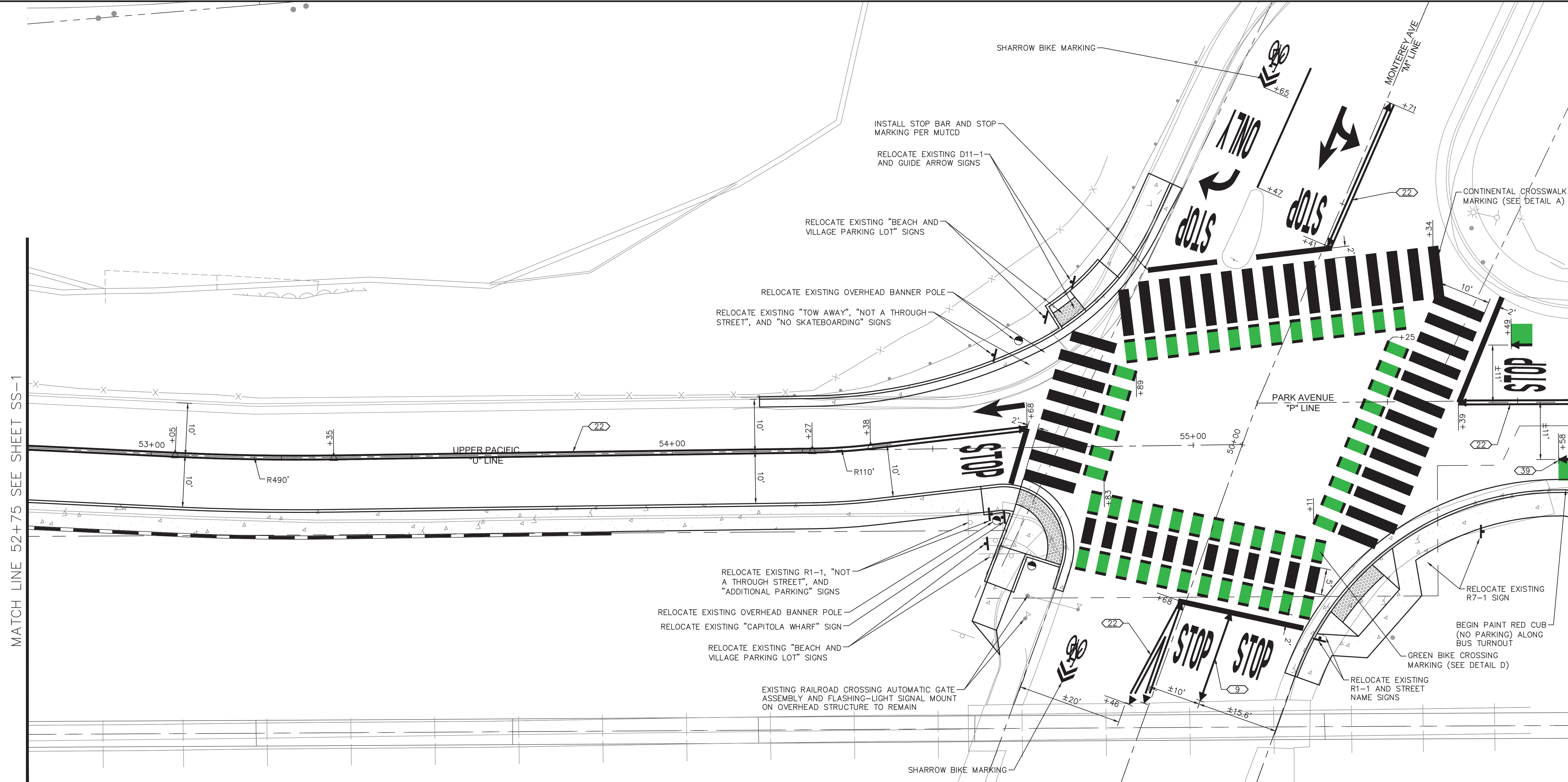


**SIGNING AND STRIPING**

SHEET NO. 11  
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**SS-1**



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MATCH LINE 52+75 SEE SHEET SS-1

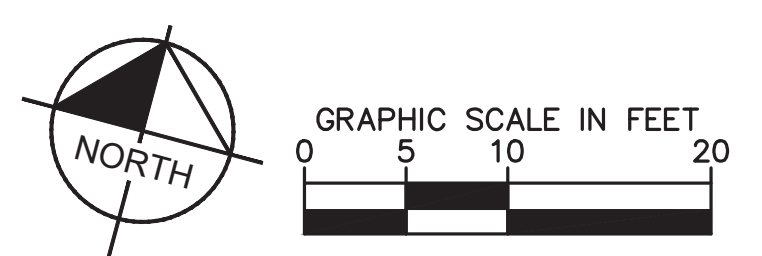
MATCH LINE 50+60 SEE SHEET SS-3

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- PROPOSED SIGN
- EXISTING STRIPING DETAIL
- PROPOSED STRIPING DETAIL
- STRIPING CHANGE
- STRIPING LIMIT
- △ ANGLE POINT
- PM PAVEMENT MARKING



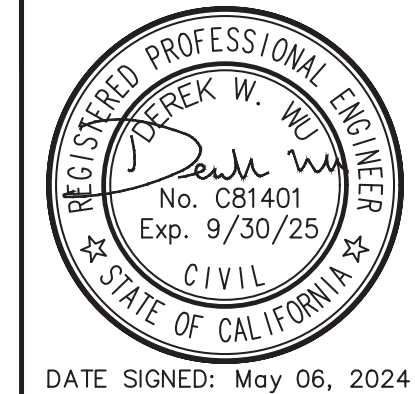
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KHA PROJECT	097763140
DATE	4/29/2024
SCALE	AS SHOWN
DESIGNED BY	DW
DRAWN BY	DW
CHECKED BY	KM

**UPPER PACIFIC SIDEWALK IMPROVEMENTS**  
PREPARED FOR  
**CITY OF CAPITOLA**  
SANTA CRUZ COUNTY  
CA



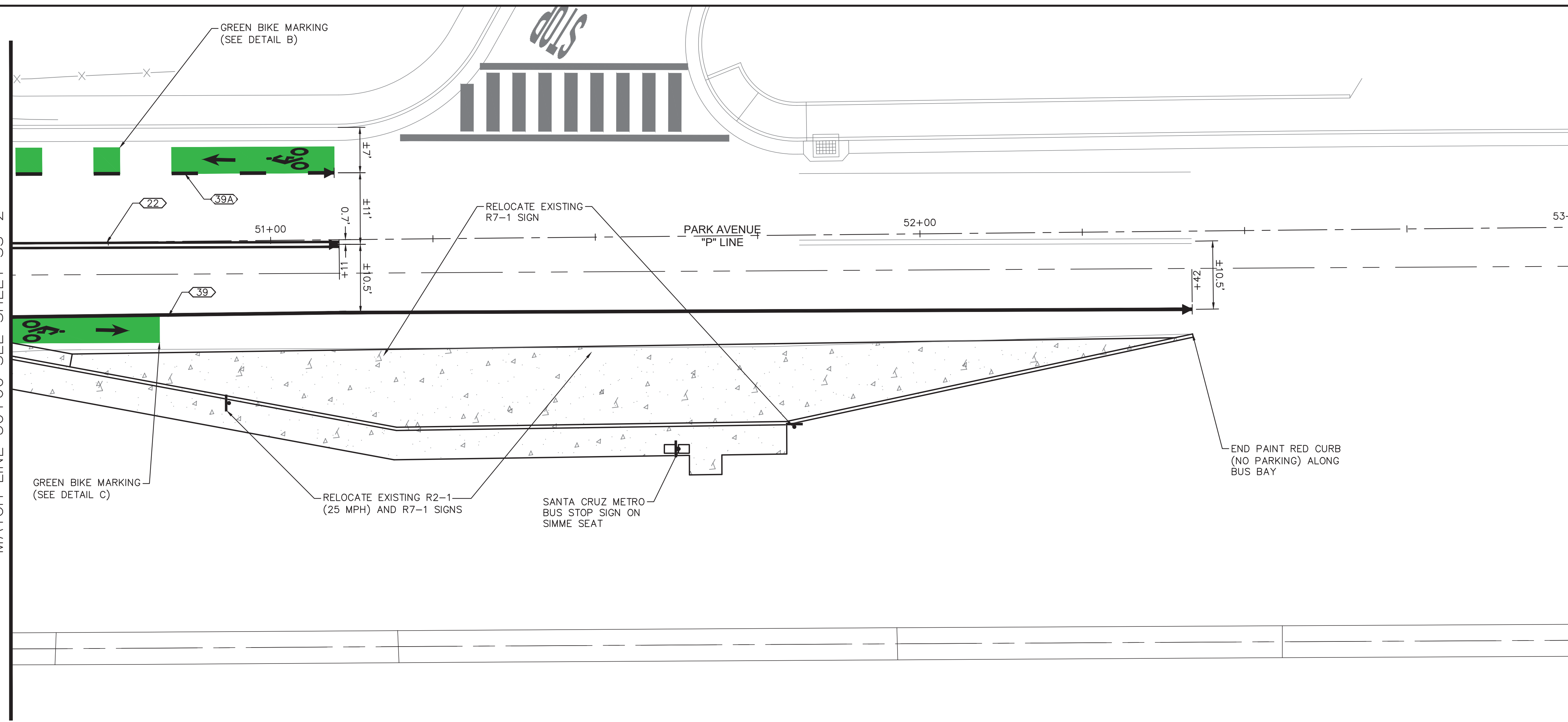
**SIGNING AND STRIPING**

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MATCH LINE 50+60 SEE SHEET SS-2

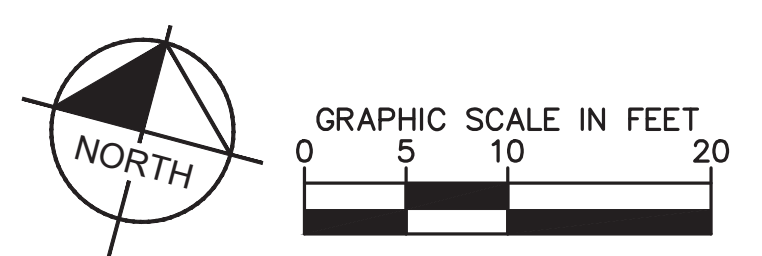
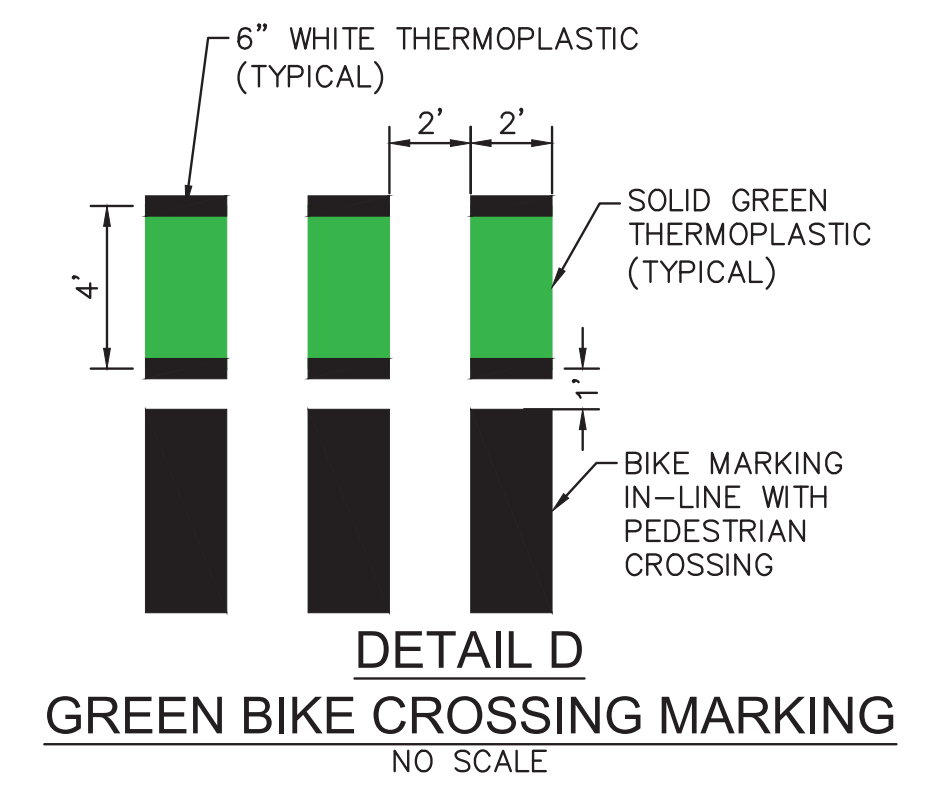
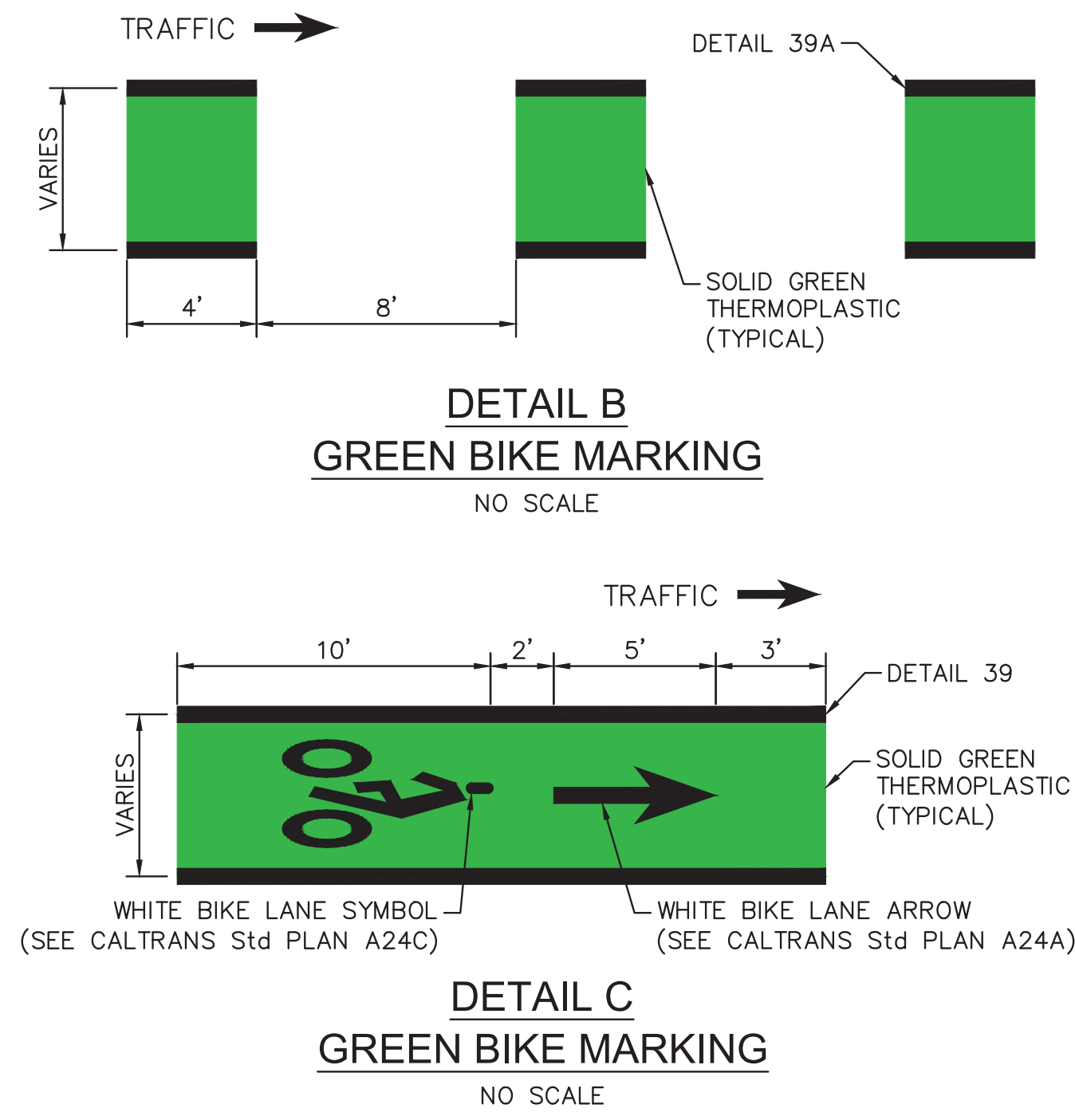
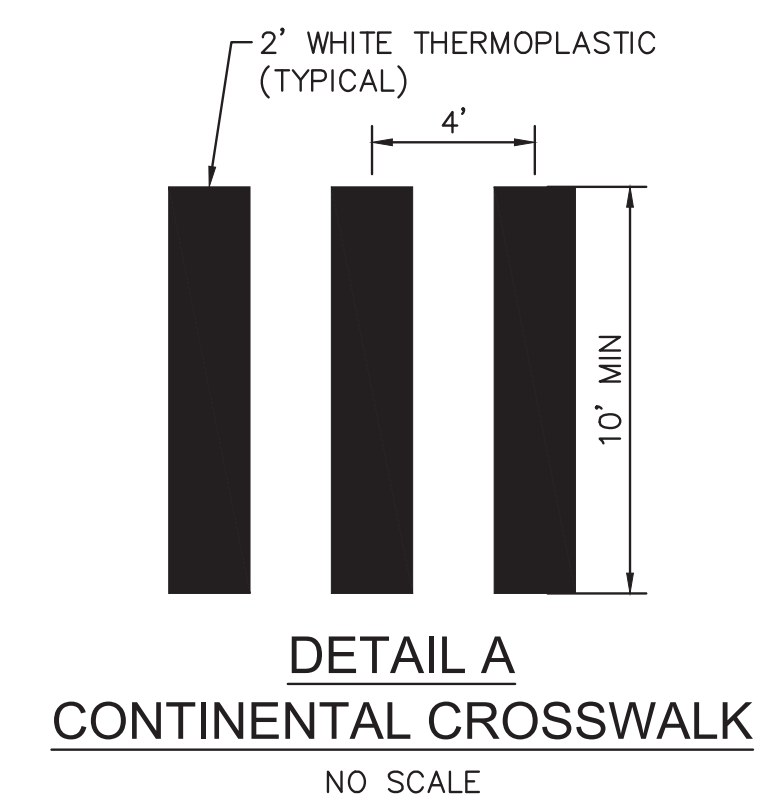


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- PROPOSED SIGN
- XX EXISTING STRIPING DETAIL
- XX PROPOSED STRIPING DETAIL
- ▬ STRIPING CHANGE
- ▬ STRIPING LIMIT
- ▲ ANGLE POINT
- PM PAVEMENT MARKING

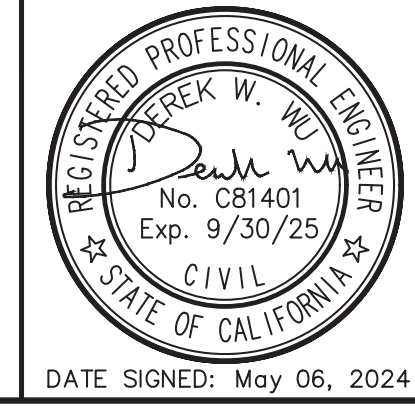


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SHEET NO. 13  
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**SS-3**