

CAPITOLA AVENUE SIDEWALK IMPROVEMENTS

SANTA CRUZ COUNTY CAPITOLA, CALIFORNIA

PROJECT DESCRIPTION

CONSTRUCT SIDEWALK IMPROVEMENTS ON CAPITOLA AVENUE FROM FANMAR WAY TO CALIFORNIA STREET IN THE DOWNTOWN VILLAGE TO IMPROVE ADA ACCESS FOR PEDESTRIANS. THE PROJECT SCOPE INCLUDES RECONSTRUCTING THE CURB, GUTTER, SIDEWALK, AND RETAINING WALL ON THE NORTH SIDE OF CAPITOLA AVENUE.

BASIS OF BEARINGS AND ELEVATIONS

PROJECT BENCHMARK:
NGS BENCHMARK DISK
ELEVATION = 57.01 (NAVD88)

SITE BENCHMARK:
MAG NAIL
ELEVATION = 12.24

CONTOUR INTERVAL = 1 FOOT
DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF

REFERENCE R1=20 PARCEL MAPS PAGE 23

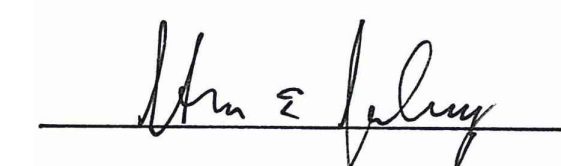
SCHEDULE A

STA 11+82 TO 13+10

318 CAPITOLA AVENUE TO CALIFORNIA AVENUE: IMPROVEMENTS INCLUDE CURB RAMP, SIDEWALK, RETAINING WALL, AND GUTTER RECONSTRUCTION ALONG CAPITOLA AVENUE.

ACCEPTANCE OF PLANS

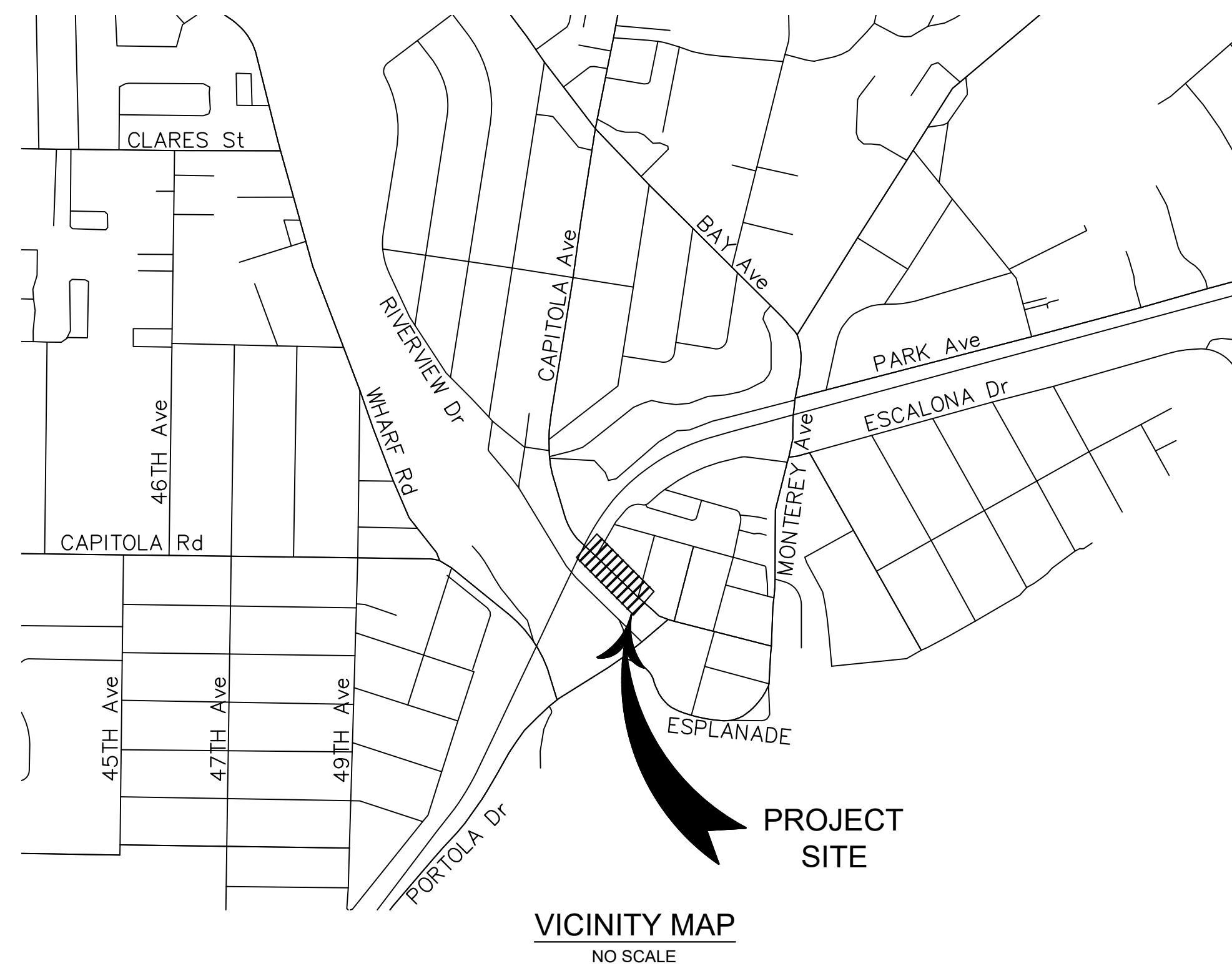
THE CITY OF CAPITOLA HEREBY ACCEPTS THESE PLANS FOR CONSTRUCTION, AS BEING IN GENERAL COMPLIANCE WITH PLANS PREPARATION REQUIREMENTS OF THIS GOVERNMENT. RESPONSIBILITY FOR THE COMPLETENESS AND ACCURACY OF THE PLANS AND RELATED DESIGN RESIDES WITH THE ENGINEER AND ENGINEERING FIRM OF RECORD.


STEVE JESBERG P.E.
DIRECTOR OF PUBLIC WORKS
CITY ENGINEER
CITY OF CAPITOLA

10/30/2020
DATE



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.



SHEET INDEX		
SHEET No	DRAWING No	SHEET CONTENTS
1	CV-1	COVER SHEET AND GENERAL NOTES
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3	DM-1	DEMOLITION PLANS
4	L-1	LAYOUT PLANS
5	P-1	PROFILES
6-7	CD-1 TO CD-2	CONSTRUCTION DETAILS
8-9	RW-1 TO RW-2	RETAINING WALL PLANS

GENERAL PROJECT NOTES

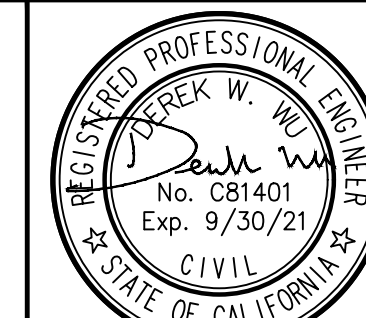
- ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS AND THE PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO CONTRACTORS"
- EXACT FIELD LOCATION FOR NEW IMPROVEMENTS SHALL BE APPROVED BY THE ENGINEER BEFORE CONSTRUCTION.
- 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.
- UNDERGROUND SERVICE ALERT: A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT 811 FOR EXISTING UTILITY LOCATIONS.
- UNDERGROUND FACILITIES: THE LOCATION OF EXISTING UNDERGROUND UTILITY FACILITIES, IF SHOWN ON THE PLANS, ARE APPROXIMATE ONLY. 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 EXISTING UTILITY. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS OR OMISSIONS.
- 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.
- 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. 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.
- 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.
- CONTRACTOR SHALL KEEP EXISTING STREETS FREE FROM DIRT AND DEBRIS DURING ALL PHASES OF CONSTRUCTION.
- 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. 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.
- CONTRACTOR SHALL MAINTAIN ACCESS TO PROPERTIES ALONG CAPITOLA AVENUE THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES.
- 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.
- UTILITY REPAIR: CONTRACTOR SHALL REPAIR ANY DAMAGE OR INTERRUPTION OF UTILITIES, WATER LINES OR IRRIGATION SYSTEMS CAUSED BY CONSTRUCTION IMMEDIATELY TO THE SATISFACTION OF THE DAMAGED UTILITY OWNER. IF OWNER COMPLETES THE REPAIR, CONTRACTOR IS RESPONSIBLE FOR THE REIMBURSEMENT COST.
- 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.
- CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS AND CAL OSHA.
- 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.
- 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.
- 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 TO THE SATISFACTION OF THE ENGINEER.
- 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.
- TOPOGRAPHIC DATA SHOWN ON THESE PLANS BASED ON SURVEY DATA PROVIDED BY WHITSON ENGINEERS, NOVEMBER 2019.
- STRUCTURAL SECTIONS SHOWN ON THESE PLANS BASED ON GEOTECHNICAL INVESTIGATION PROVIDED BY BUTANO GEOTECHNICAL ENGINEERS, DECEMBER 2019.



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097763134
DATE
10/21/2020
SCALE AS SHOWN
DESIGNED BY DW
DRAWN BY DW
CHECKED BY DC

CAPITOLA AVENUE SIDEWALK
IMPROVEMENTS
PREPARED FOR
CITY OF CAPITOLA
SANTA CRUZ COUNTY



DATE SIGNED: Oct 26, 2020

COVER SHEET

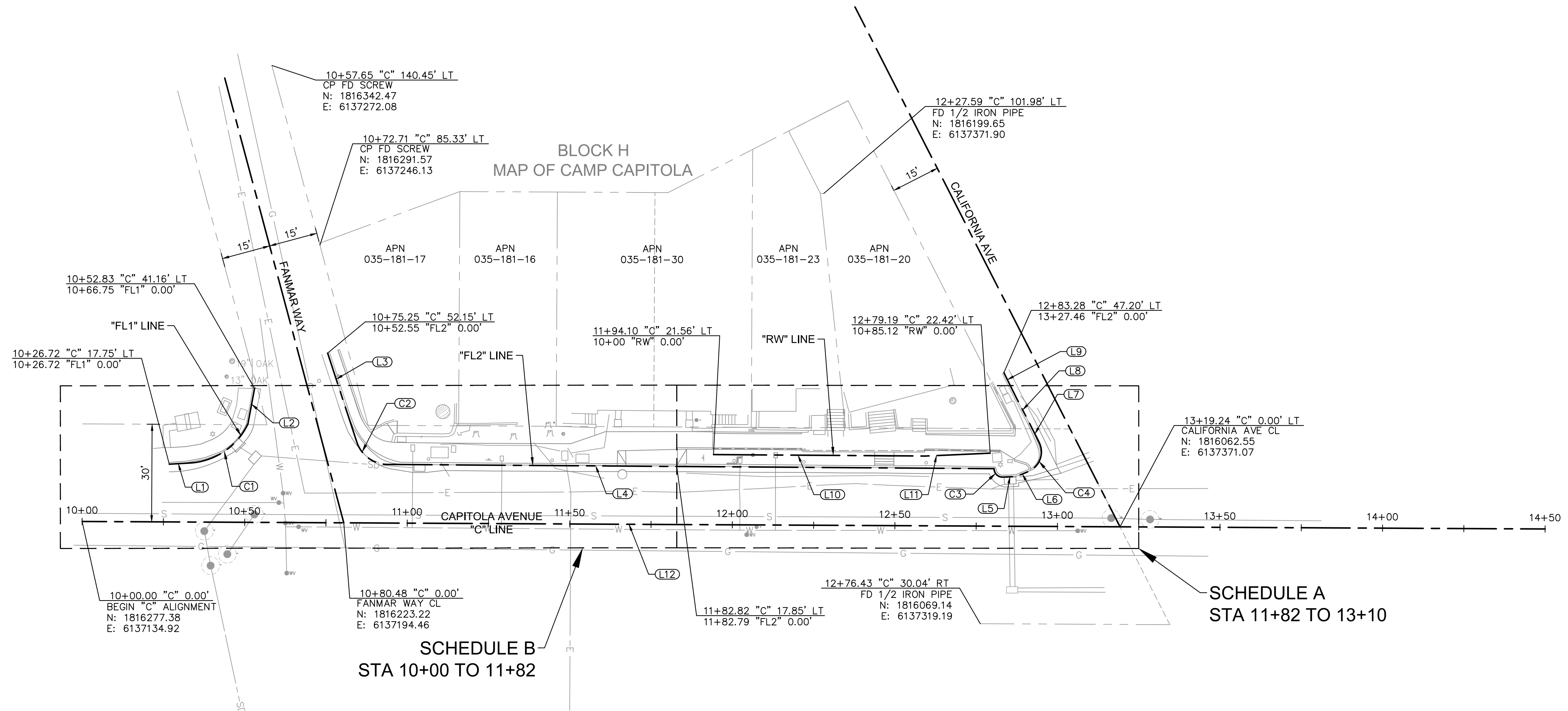
SHEET NO. 1
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CV-1A

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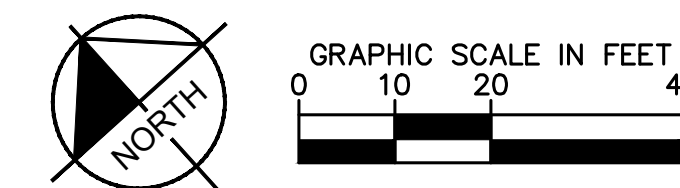


TOPOGRAPHIC MAP NOTES

1. THIS MAP REPRESENTS A TOPOGRAPHIC SURVEY PERFORMED BY WHITSON ENGINEERS ON NOVEMBER 26, 2019.
2. 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.
3. 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.
4. DISTANCES AND DIMENSIONS SHOWN ARE EXPRESSED IN FEET AND DECIMALS THEREOF, UNLESS OTHERWISE NOTED.
5. PROJECT BENCHMARK: NGS BENCHMARK DISK. ELEVATION 57.01' (NAVD88)
6. SITE BENCHMARK: MAG NAIL. ELEVATION: 12.24'
7. 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.
8. DIAMETERS OF TREES ARE SHOWN IN INCHES MEASURED AT BREAST HEIGHT. TREES SMALLER THAN 6" WERE NOT NECESSARILY LOCATED.
9. REFERENCES - R1 = 20 PARCEL MAPS PAGE 23.

ALIGNMENT LINE TABLE			
LINE	NAME	LENGTH	BEARING
L1	FL1	6.39	S51°16'55.93"E
L2	FL1	11.14	N52°36'58.60"E
L3	FL2	16.14	S23°51'02.30"W
L4	FL2	186.57	S47°36'02.41"E
L5	FL2	4.11	S50°21'35.42"E
L6	FL2	3.99	S70°21'20.01"E
L7	FL2	7.44	N15°08'59.98"E
L8	FL2	7.90	N14°33'10.65"E
L9	FL2	8.64	N15°41'45.02"E
L10	RW	65.25	S47°36'02.41"E
L11	RW	19.87	S50°32'15.04"E
L12	C	450.00	S47°42'20.39"E

ALIGNMENT CURVE TABLE							
CURVE	NAME	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	FL1	21.06'	22.51'	S81°53'53"E	21.45'	61°13'54"	12.46'
C2	FL2	10.06'	12.55'	S11°52'30"E	11.75'	71°27'05"	7.24'
C3	FL2	2.56'	4.15'	S3°58'49"E	3.71'	92°45'33"	2.69'
C4	FL2	6.56'	10.82'	N62°23'50"E	9.64'	94°29'40"	7.10'



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CAPITOLA AVENUE SIDEWALK IMPROVEMENTS

PREPARED FOR
CITY OF CAPITOLA

SANTA CRUZ COUNTY CA



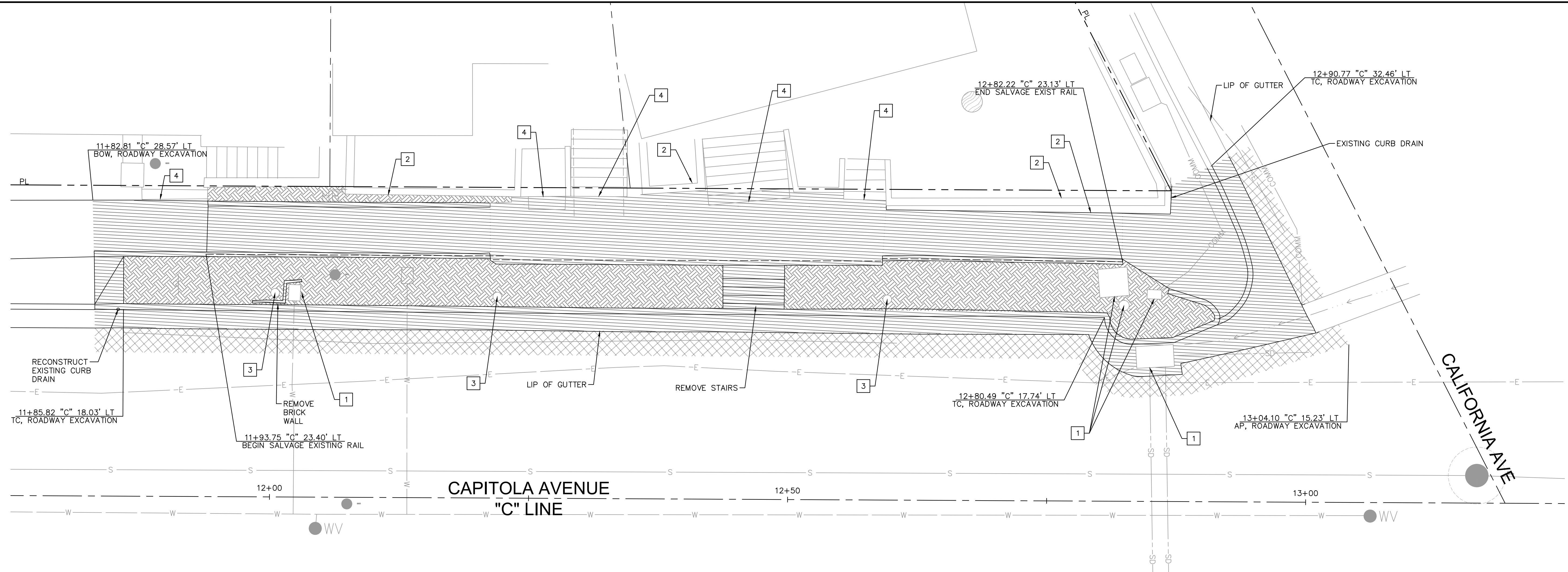
HORIZONTAL CONTROL

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HC-1A

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GENERAL DEMOLITION NOTES

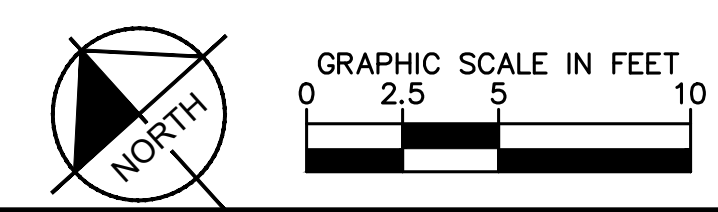
1. ALL EXISTING SIGNS WITHIN AREAS OF REMOVAL SHALL BE SALVAGED WHEN IN CONFLICT AND INSTALLED PER THE LAYOUT PLANS.
2. SEE CONSTRUCTION DETAILS AND DRAINAGE PLANS FOR UTILITY FACILITY ADJUSTMENTS AND DRAINAGE SYSTEM MODIFICATION DETAILS.
3. REMOVE SIDEWALK TO THE NEAREST JOINT BEYOND STATION OFFSET SHOWN.
4. EXISTING UTILITIES ARE TO REMAIN AND BE ADJUSTED BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.
5. EXISTING AMENITIES WITHIN CITY RIGHT OF WAY TO BE SALVAGED BY THE CONTRACTOR AND DELIVERED TO THE CITY.
6. EXISTING DECORATIVE HAND RAILING ALONG CAPITOLA AVENUE SIDEWALK SHALL BE SALVAGED PRIOR TO START OF DEMOLITION ACTIVITIES. HAND RAILING TO BE INSTALLED ONTO PROPOSED RETAINING WALL. SEE RETAINING WALL DETAILS.
7. EXISTING STAIRS AND PEDESTRIAN FEATURES LEADING TO 314, 316, AND 318 CAPITOLA AVENUE SHALL BE PROTECTED. IF NECESSARY TO CONSTRUCT PROPOSED SIDEWALK, SALVAGE FIRST SET OF STAIRS AND HAND RAILING. CONTRACTOR TO COORDINATE WITH PROPERTY OWNER PRIOR TO THE START OF DEMOLITION ACTIVITIES.

LEGEND

- ROADWAY EXCAVATION (ASPHALT)
- ROADWAY EXCAVATION (CONCRETE & WOOD)
- CLEARING AND GRUBBING

DEMOLITION NOTES

- 1 EXISTING UTILITY TO REMAIN, ADJUST TO GRADE
- 2 EXISTING CONCRETE WALL/RETAINING CURB TO REMAIN
- 3 ADJUST PARKING METER TO GRADE
- 4 EXISTING STAIRS TO REMAIN, ADJUST TO GRADE



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CAPITOLA AVENUE SIDEWALK IMPROVEMENTS

PREPARED FOR
CITY OF CAPITOLA

SANTA CRUZ COUNTY CA



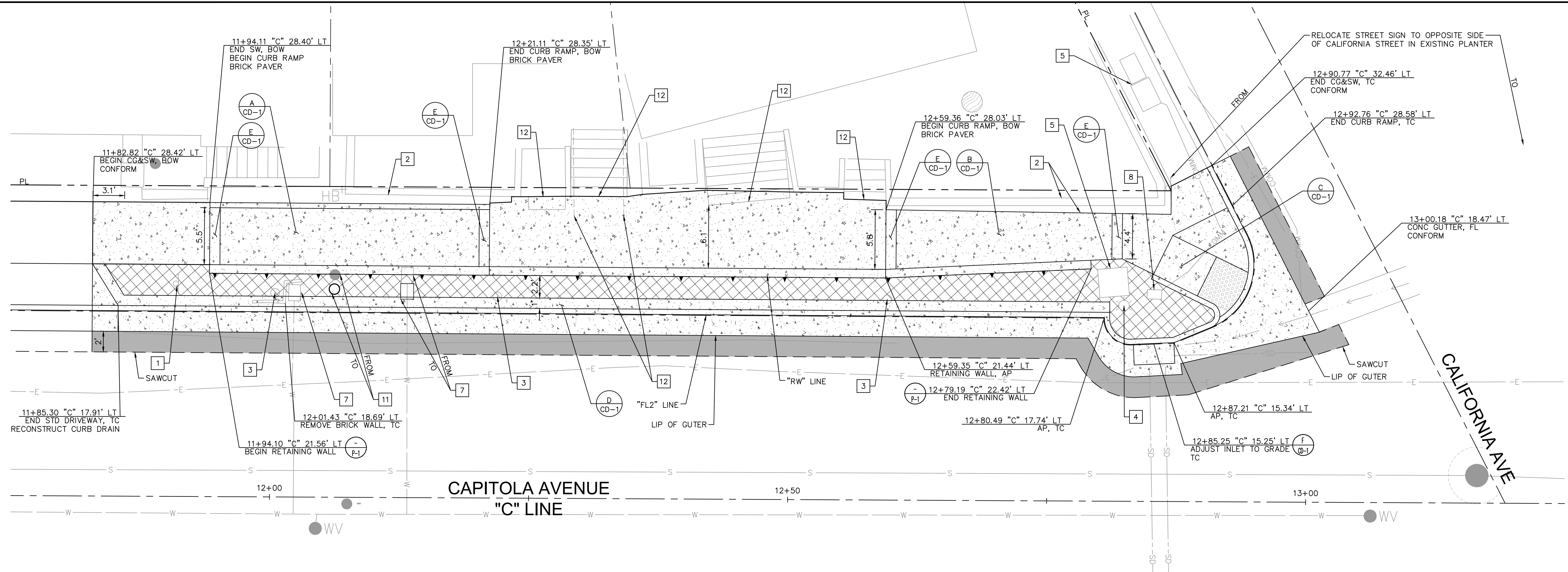
DEMOLITION PLAN

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SHEET NO. 3
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LEGEND

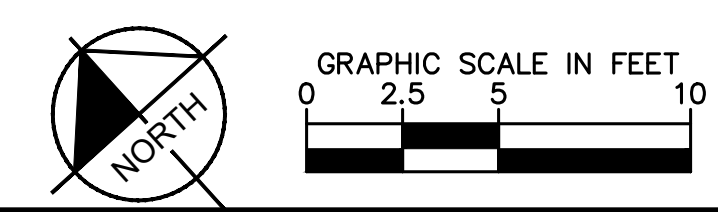
- ROADWAY (3" HMA & 8" CLASS II AB SECTION)
- PCC (SIDEWALK/CURB RAMP/DRIVEWAY)
- DETECTABLE WARNING SURFACE
- WOOD MULCH
- RETAINING WALL
- SAWCUT
- G — GAS LINE
- OH — OVERHEAD UTILITY LINE(S)
- SS — SANITARY SEWER LINE
- SD — STORM DRAIN LINE
- W — WATER LINE
- E — ELECTRICAL LINE
- COMMUNICATIONS LINE
- (XX/XX) DETAIL NO. / SHEET REFERENCE

CONSTRUCTION NOTES

- 1 EXISTING SIGNS AND SIGN POST TO REMAIN
- 2 EXISTING CONCRETE WALL / RETAINING CURB TO REMAIN
- 3 ADJUST PARKING METER TO GRADE
- 4 EXISTING LIGHT POLE TO REMAIN
- 5 EXISTING COMMUNICATION UTILITY BOX TO REMAIN
- 6 ADJUST COMMUNICATION UTILITY BOX TO GRADE
- 7 ADJUST/RELOCATE WATER UTILITY BOX TO GRADE
- 8 ADJUST CABLE TV UTILITY BOX TO GRADE
- 9 ADJUST ELECTRICAL VAULT TO GRADE
- 10 EXISTING PG&E MANHOLE TO REMAIN
- 11 ADJUST/RELOCATE SANITARY SEWER CLEAN OUT TO GRADE
- 12 EXISTING STAIRS TO REMAIN, ADJUST TO GRADE

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. CONTRACTOR SHALL VERIFY ALL RIGHTS OF WAY PRIOR TO CONSTRUCTION.
3. SEE HORIZONTAL CONTROL AND PROFILE SHEETS FOR ALIGNMENT DETAILS.
4. SEE CONSTRUCTION DETAIL SHEETS FOR CURB RAMP, DRIVEWAY, SIDEWALK, AND DRAINAGE DETAILS.
5. SEE DRAINAGE PLAN FOR STORM WATER DRAINAGE DETAILS.
6. SEE RETAINING WALL PLAN FOR RETAINING WALL LAYOUT AND PROFILE.
7. 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.
8. 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.
9. 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.

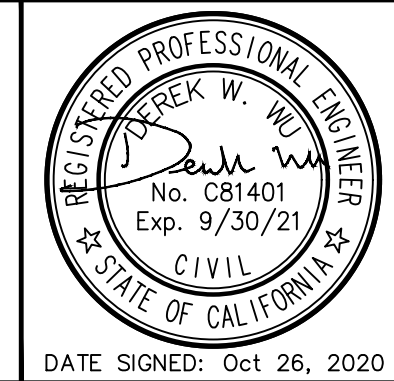


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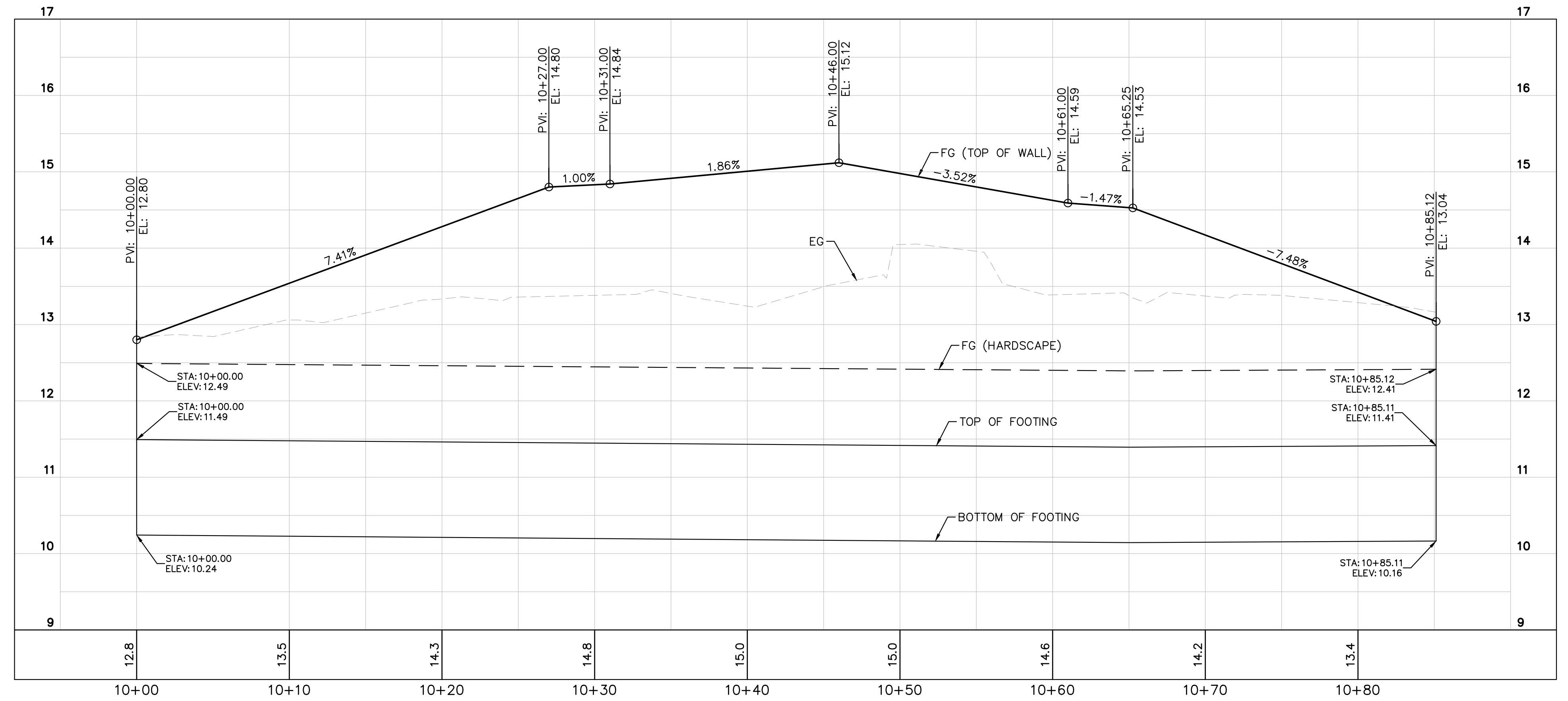
CAPITOLA AVENUE SIDEWALK IMPROVEMENTS
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LAYOUT PLAN

SHEET NO. 4
OF 9 SHEETS
L-1A

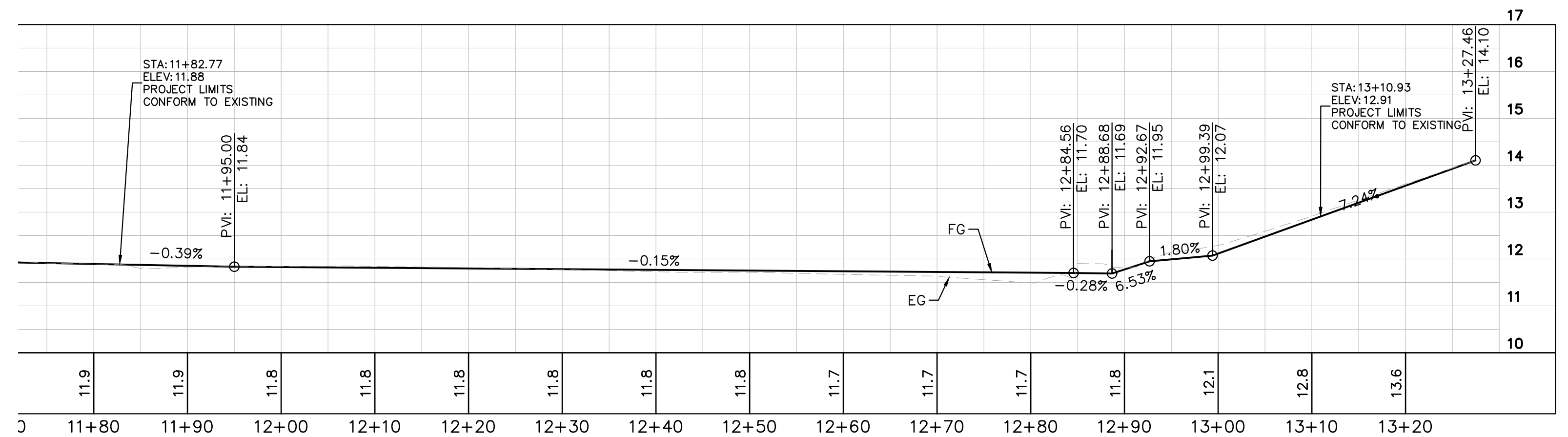
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**CROSS SECTION PROFILE VIEW
"RW" LINE
RETAINING WALL**

SCALE:

HORIZONTAL 1" = 5'
VERTICAL 1" = 1'



**CROSS SECTION PROFILE VIEW
"FL2" LINE
CAPITOLA AVENUE CURB**

SCALE:

HORIZONTAL 1" = 10'
VERTICAL 1" = 2'



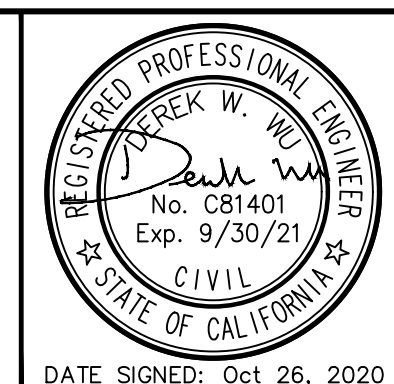
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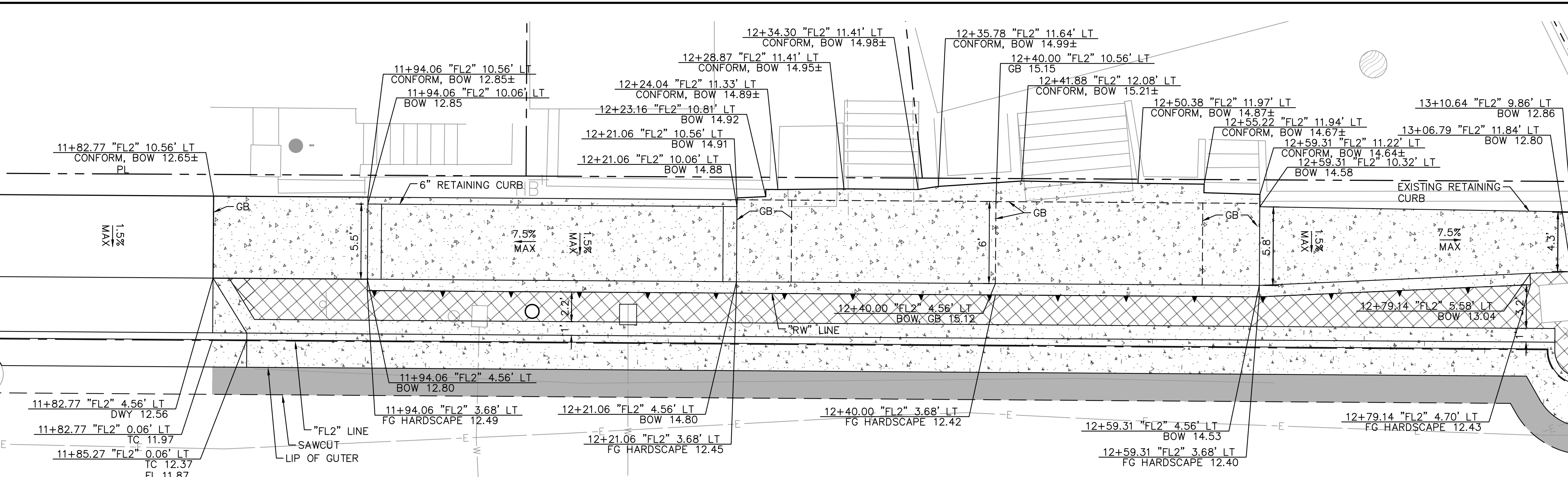


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PROFILE PLAN

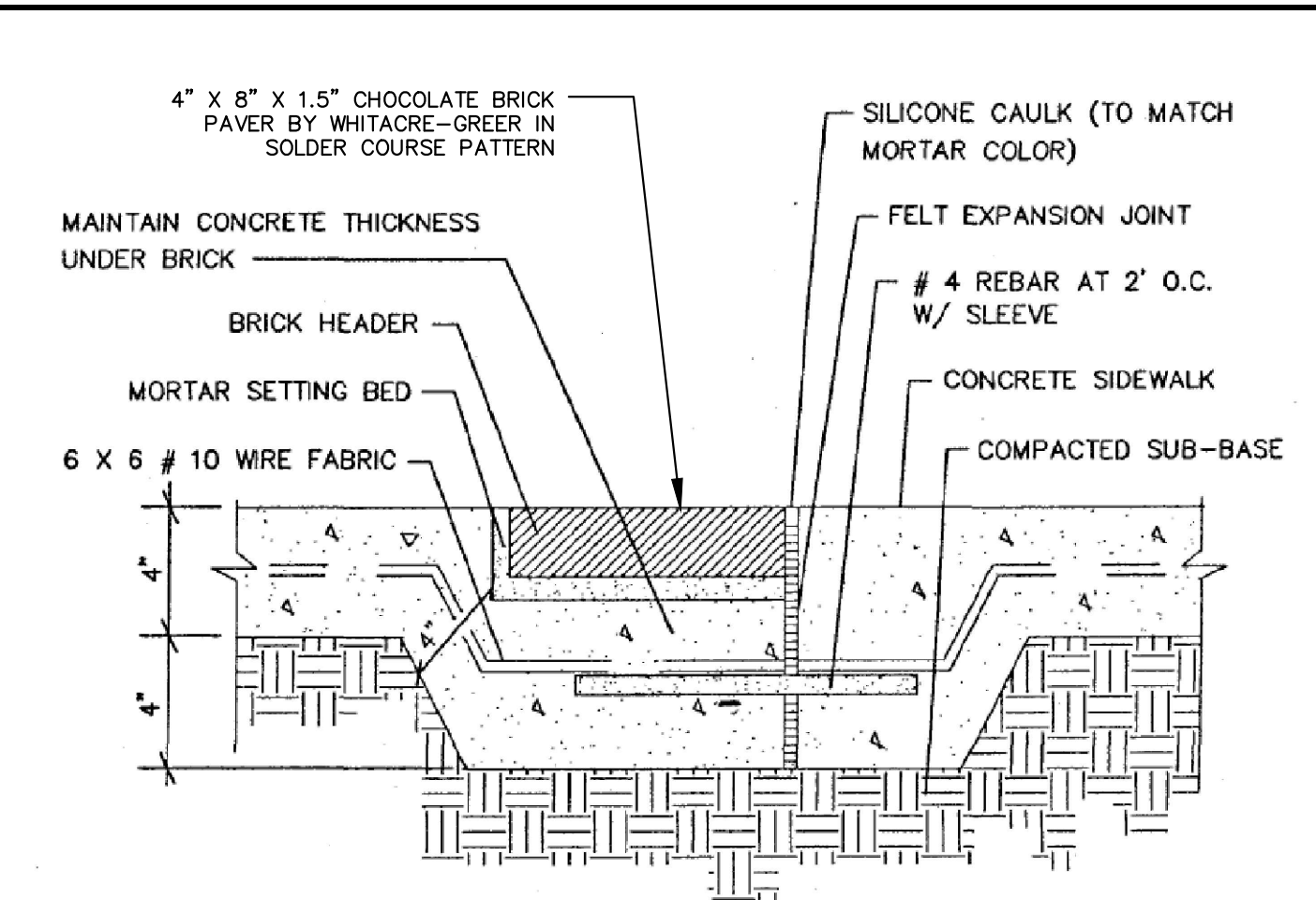
SHEET NO. 5
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P-1A

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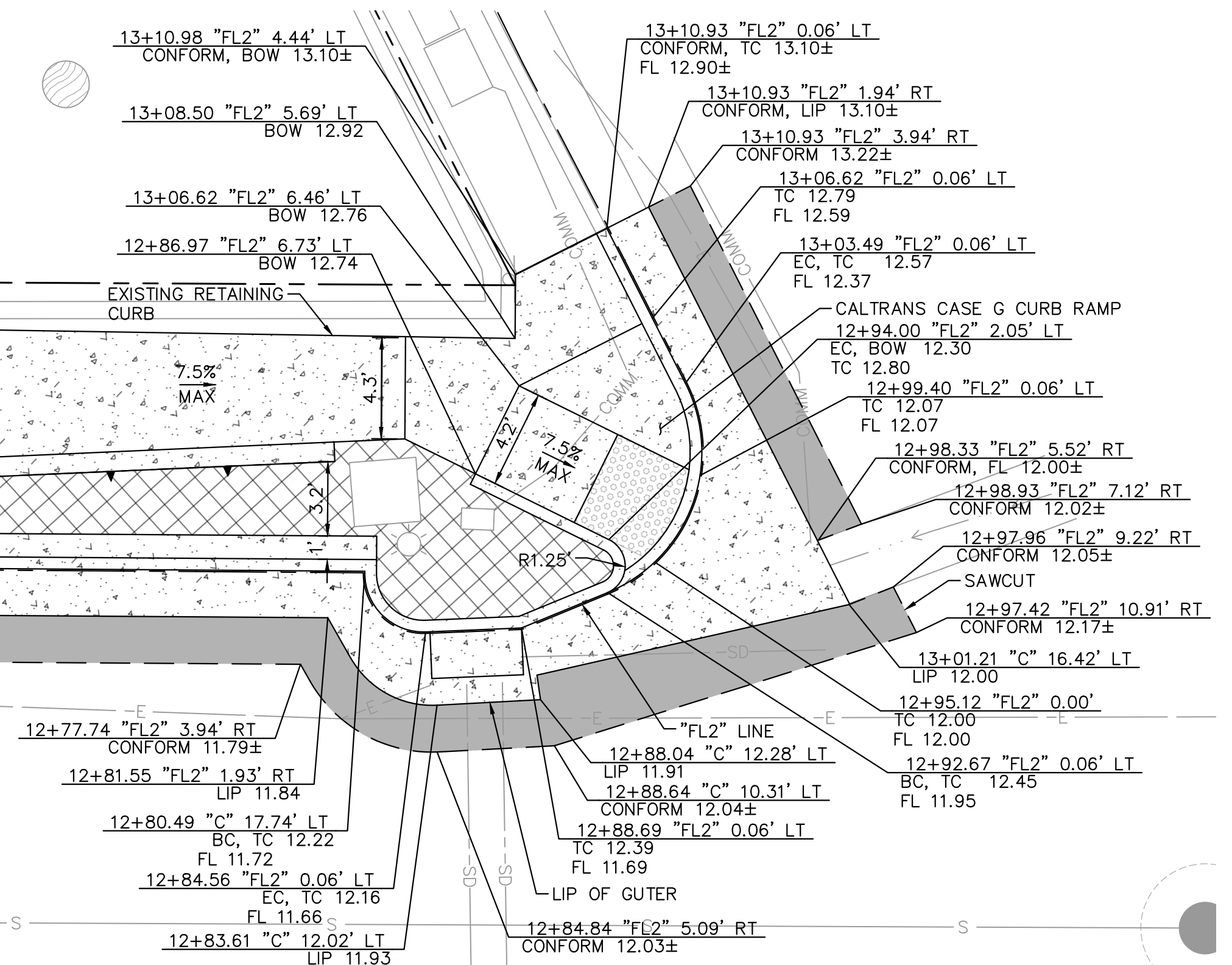


**SIDEWALK RAMP DETAIL A
PLAN VIEW**

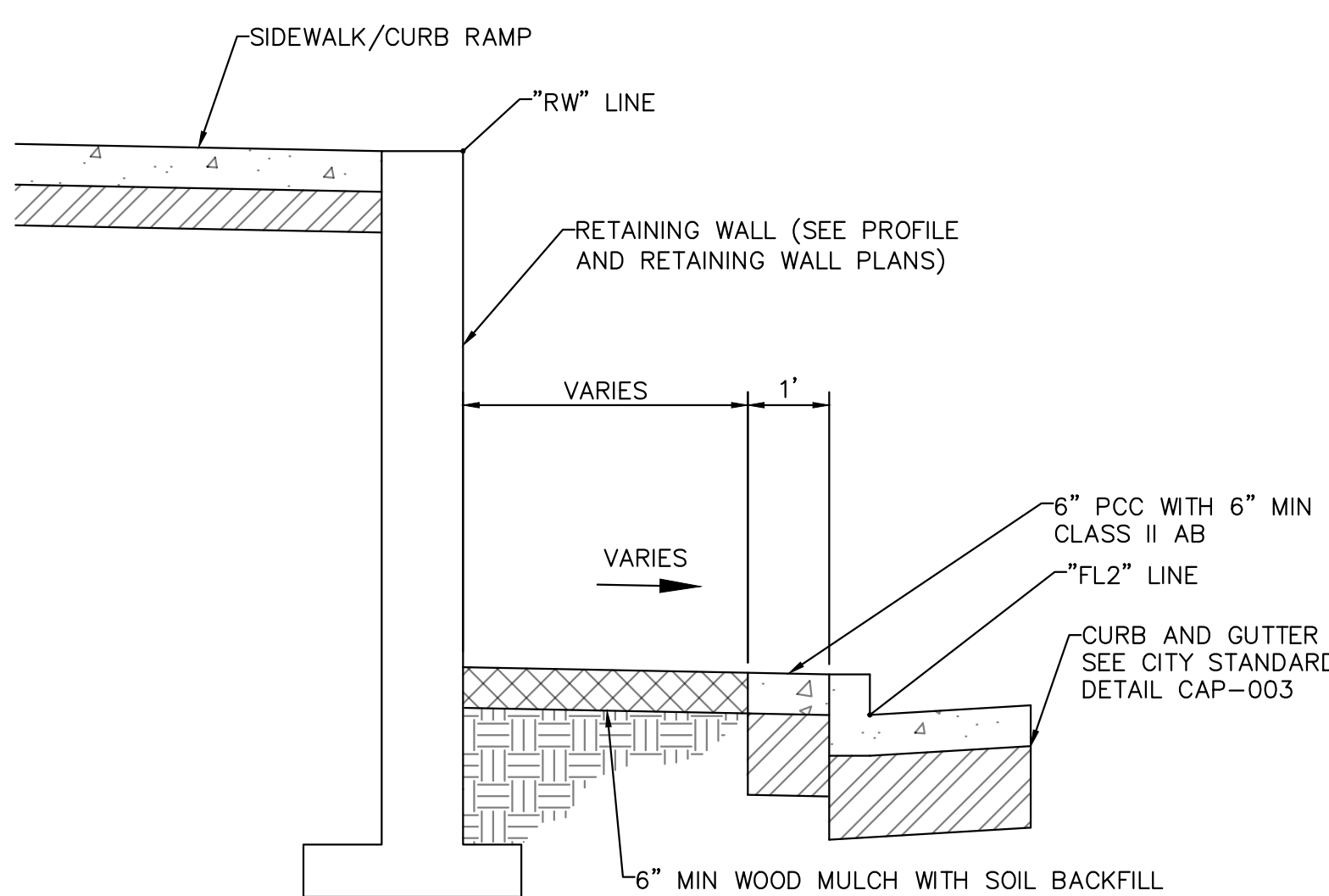
**SIDEWALK RAMP DETAIL B
PLAN VIEW**



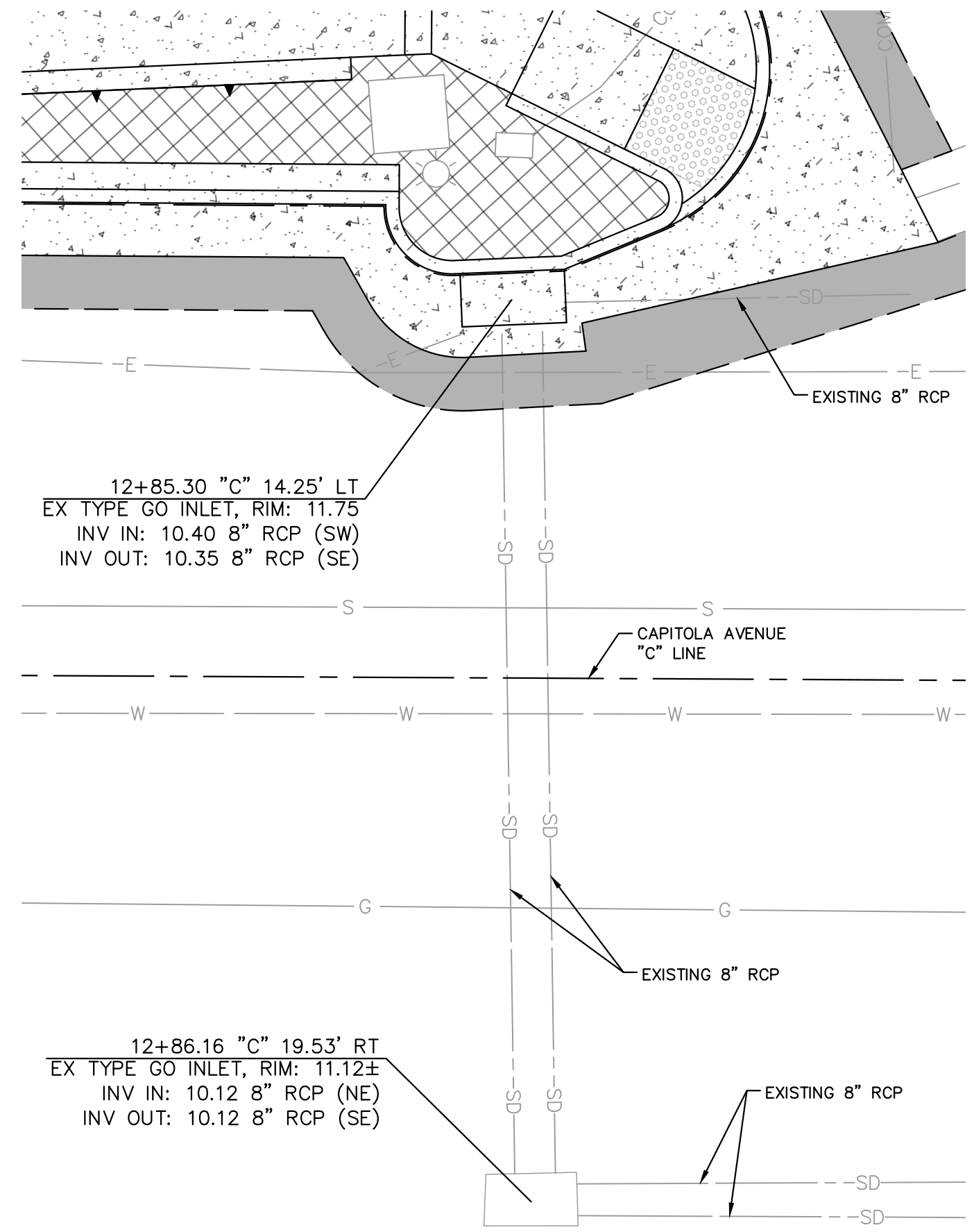
**BRICK PAVER DETAIL E
CROSS-SECTION VIEW**
NO SCALE



**CURB RAMP DETAIL C
PLAN VIEW**



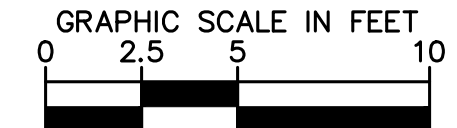
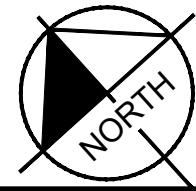
**LANDSCAPING DETAIL D
CROSS-SECTION VIEW**
NO SCALE



**DRAINAGE DETAIL F
PLAN VIEW**

GENERAL CONSTRUCTION NOTES:

1. SIDEWALK AND CURB RAMP GRADING SHALL COMPLY TO SLOPE STANDARDS FROM THE AMERICAN DISABILITIES ACT (ADA). DESIGN TO HAVE A MAXIMUM RUNNING SLOPE OF 7.5% AND A MAXIMUM CROSS SLOPE OF 1.5% PER CALTRANS STANDARD PLANS.



No.	REVISIONS	DATE	BY

Kimley»Horn
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PHONE: 669-800-4130
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KHA PROJECT	097763134
DATE	10/21/2020
SCALE	AS SHOWN
DESIGNED BY	DW
DRAWN BY	DW
CHECKED BY	DC

**CAPITOLA AVENUE SIDEWALK
IMPROVEMENTS**
PREPARED FOR
CITY OF CAPITOLA
SANTA CRUZ COUNTY



CONSTRUCTION DETAILS

SHEET NO. 6
OF 9 SHEETS
CD-1A

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TRENCH BACKFILL SECTION

NOTES:

- BACKFILL MIX TO PAVEMENT GRADE AND BRIDGE W/ METAL PLATE UNTIL SLURRY MIX CAN SUPPORT VEHICULAR TRAFFIC. ASPHALT CONCRETE PATCH TO MATCH EXISTING THICKNESS. 3" MINIMUM (TYPE B). DO NOT MOVE SLURRY ONCE PLACED.
- SLURRY MIX SPECIFICATIONS: PER CUBIC YARD
1-SACK PORTLAND CEMENT
12 GALLONS WATER
2000 LBS. 3/8" AGGREGATE
800 LBS. SAND
- REFER TO UTILITY AGENCY REQUIREMENTS
- FOR LESS THAN 12" COVER, BACKFILL WITH 4-SACK 2500 PSI CONCRETE CAP FOR MORE THAN 24" COVER, BACKFILL WITH 2-SACK SLURRY FOR MORE THAN 48" COVER BACKFILL WITH CLASS 2 AGG. BASE

NOT TO SCALE	CITY OF CAPITOLA	STANDARD DRAWINGS FOR	DRAWN: 1/15	REV:
DRAWN BY: BSW		TRENCH BACKFILL SECTION		
CHECKED BY: JFR		STEVEN JESBERG, PUBLIC WORKS DIRECTOR	DRAWING No. CAP - 001	

CONCRETE GUTTER REPLACEMENT

NOTES:

- ALL WORK AND MATERIAL SHALL CONFIRM TO THE CITY OF CAPITOLA STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.
- CONCRETE SHALL BE SIX SACK MIX, CLASS A WITH 2,500 PSI IN 28 DAY (MINIMUM).
- FOR SCORELINE AND EXPANSION JOINTS, SEE DETAIL PAGE CAP-006.
- ALL CONCRETE CURBS, GUTTERS, SIDEWALKS, AND DRIVEWAY APPROACH REMOVALS SHALL BE SAWCUT ON EXISTING SCORELINES. LIMITS OF REMOVAL TO BE DETERMINED BY CITY.
- ALL CONCRETE SURFACES WHICH HAVE BEEN MARKED OR DEFACED WILL NOT BE ACCEPTED.
- IF SIDEWALK NOT INSTALLED MONTHLICHALLY, PLACE 4" DOWELS 10" LONG AT 4'-0" C. IN BACK OF CURB, 3" DOWN FROM TOP OF CURB AND 4" INTO THE CONCRETE.

NOT TO SCALE	CITY OF CAPITOLA	STANDARD DRAWINGS FOR	DRAWN: 1/15	REV:
DRAWN BY: BSW		CONCRETE GUTTER REPLACEMENT		
CHECKED BY: JFR		STEVEN JESBERG, PUBLIC WORKS DIRECTOR	DRAWING No. CAP - 002	

CURB, GUTTER, AND SIDEWALK

NOTES:

- ALL WORK AND MATERIAL SHALL CONFIRM TO THE CITY OF CAPITOLA STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.
- CONCRETE SHALL BE SIX SACK MIX, CLASS A WITH 2,500 PSI IN 28-DAY (MINIMUM).
- COMPACT SUBBASE SOIL AND CLASS II AGGREGATE BASE TO 98% RELATIVE COMPACTION.
- SEE SCORELINE AND EXPANSION JOINTS PER CAP-006.
- ALL CONCRETE CURBS, GUTTERS, SIDEWALKS, AND DRIVEWAY APPROACH REMOVALS SHALL BE SAWCUT ON EXISTING SCORELINES. LIMITS OF REMOVAL TO BE DETERMINED BY CITY.
- ALL CONCRETE SURFACES WHICH HAVE BEEN MARKED OR DEFACED WILL NOT BE ACCEPTED.
- IF SIDEWALK NOT INSTALLED MONTHLICHALLY, PLACE 4" DOWELS 10" LONG AT 4'-0" C. IN BACK OF CURB, 3" DOWN FROM TOP OF CURB AND 4" INTO THE CONCRETE.

NOT TO SCALE	CITY OF CAPITOLA	STANDARD DRAWINGS FOR	DRAWN: 1/15	REV:
DRAWN BY: BSW		CURB, GUTTER, AND SIDEWALK		
CHECKED BY: JFR		STEVEN JESBERG, PUBLIC WORKS DIRECTOR	DRAWING No. CAP - 003	

STANDARD DRIVEWAY APPROACH

NOTES:

- ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE CITY OF CAPITOLA STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.
- CONCRETE SHALL MEET 2,500 PSI IN 28-DAY REQUIREMENTS (MINIMUM).
- DRIVEWAY APPROACH SHALL BE GIVEN A MEDIUM BROOM FINISH FROM END TO END.
- SCORELINES SHALL CORRESPOND WITH THE SCORELINES OF THE ADJACENT SIDEWALK WHEN PRACTICAL.
- ALL DRIVEWAY APPROACH REMOVALS SHALL BE SAWCUT ON EXISTING SCORELINES. LIMITS OF REMOVAL TO BE DETERMINED BY CITY.
- ALL CONCRETE SURFACES WHICH HAVE BEEN MARKED OR DEFACED WILL NOT BE ACCEPTED.
- USE 1/4" RADIUS JOINTER FOR ALL SCORELINES WHICH SHALL BE STRAIGHT, TRUE TO ALIGNMENT AND DEPTH.
- 5" MINIMUM BETWEEN DRIVEWAY APPROACHES.
- 6 X 6 X #10 WIRE MESH WILL BE INSTALLED FULL LENGTH FROM BACK OF GUTTER TO BACK OF SIDEWALKS ON ALL DRIVEWAYS.
- DIFFERENCE IN SLOPE OF THE DRIVEWAY RAMP AND THE SLOPE OF A LINE BETWEEN THE GUTTER AND A POINT ON THE ROADWAY 5'-0" FROM GUTTER LINE SHALL NOT EXCEED 15% REDUCE DRIVEWAY RAMP SLOPE, NOT GUTTER SLOPE, WHERE REQUIRED.

NOT TO SCALE	CITY OF CAPITOLA	STANDARD DRAWINGS FOR	DRAWN: 1/15	REV:
DRAWN BY: BSW		STANDARD DRIVEWAY APPROACH		
CHECKED BY: JFR		STEVEN JESBERG, PUBLIC WORKS DIRECTOR	DRAWING No. CAP - 008	

CURB DRAIN ELEVATION

NOTES:

- FOR GREATER CAPACITY, ADDITIONAL DRAINS MAY BE INSTALLED WITH THE FOLLOWING LIMITATIONS:
A. ADJACENT DRAINS SHALL BE OF ONE TYPE.
B. MINIMUM DISTANCE BETWEEN DRAINS SHALL BE 4'.
- PVC PIPE FORM SHALL BE SUPPORTED FROM DISTORTION DURING POUR OF CONCRETE BY FILING WITH SAND. TEMPORARY SUPPORT WEDGED IN PLACE OR OTHER SUITABLE MEANS.

NOT TO SCALE	CITY OF CAPITOLA	STANDARD DRAWINGS FOR	DRAWN: 1/15	REV:
DRAWN BY: BSW		CURB DRAIN ELEVATION		
CHECKED BY: JFR		STEVEN JESBERG, PUBLIC WORKS DIRECTOR	DRAWING No. CAP - 011	

DROP INLET, TYPE GO

NOTES:

- REINFORCING STEEL IN WALLS SHALL BE #4 BARS @ 18" C CENTERS PLACED 1" CLEAR TO INSIDE OF BOX.
- SEE DWG NO. CAP-003 FOR FRAME & GRATE DETAILS.

NOT TO SCALE	CITY OF CAPITOLA	STANDARD DRAWINGS FOR	DRAWN: 1/15	REV:
DRAWN BY: BSW		DROP INLET, TYPE GO		
CHECKED BY: JFR		STEVEN JESBERG, PUBLIC WORKS DIRECTOR	DRAWING No. CAP - 012	

STORM DRAIN MANHOLE

NOTES:

- NO WALL REINFORCEMENT REQUIRED.
- ALL PRECAST MANHOLE SECTIONS SHALL CONFORM TO A.S.T.M. C 478.

NOT TO SCALE	CITY OF CAPITOLA	STANDARD DRAWINGS FOR	DRAWN: 1/15	REV:
DRAWN BY: BSW		STORM DRAIN MANHOLE		
CHECKED BY: JFR		STEVEN JESBERG, PUBLIC WORKS DIRECTOR	DRAWING No. CAP - 012	

SERVICE CONNECTION

NOTES:

- METER BOX SHALL BE SET IN SIDEWALK, UNLESS DIRECTED BY DISTRICT.
- ALL SERVICES MUST HAVE INSERTS IN THE TUBING AT THE CORP AND METER STOP.
- INSTALL A MUELLER H-10899 OR FORD A34 METER BUSHING ADAPTER WHEN A 5/8 X 3/4" METER IS INSTALLED.
- WHEN INSTALLING A NEW SERVICE AT AN EXISTING LOCATION THE CONTRACTOR MUST REPLUMB THE CUSTOMER SIDE SO THE NEW INSTALLATION MEETS THIS PLAN, AND REMOVE ALL ABANDONED PIPE WITHIN THE METER BOX.
- IRRIGATION METERS WILL REQUIRE A BACKFLOW PREVENTOR PER SCOW STANDARD S-19.
- NEW INSTALLATIONS AT EXISTING LOCATIONS MUST BE RELOCATED INTO THE RIGHT OF WAY.
- RESTRICTED METER REQUIRES A 10 GPM FLOW RESTRICTOR DOLE VALVE TO BE INSTALLED BY DISTRICT.
- FOR C-900 PIPELINES, SADDLES TO BE PLACED NO CLOSER THAN 24" FROM THE BACK OF THE NEAREST BELL OR BLACK INSERTION LINE ON THE SPIGOT END. SADDLES TO BE PLACED A MINIMUM OF 18" APART IF STAGGERED, 36" APART IF NOT STAGGERED (ALONG THE SAME LINE). SEPARATION IS 1 FT. FROM BELL OR SERVICE FOR AC PIPE.
- ALL MATERIALS ARE TO BE MADE IN U.S.A. UNLESS SPECIFIED BY DISTRICT ENGINEER.
- CONTRACTOR MUST HAVE INSTALLATION INSTRUCTIONS FOR ALL SERVICE MATERIAL AND A CALIBRATED TORQUE WRENCH ON-SITE.

NOT TO SCALE	CITY OF CAPITOLA	STANDARD DRAWINGS FOR	DRAWN: 1/15	REV:
DRAWN BY: BSW		SERVICE CONNECTION		
CHECKED BY: JFR		STEVEN JESBERG, PUBLIC WORKS DIRECTOR	DRAWING No. CAP - 012	

BURIED VALVE ASSEMBLY

NOTES:

- ALL VALVE HARDWARE SHALL BE TYPE 316 STAINLESS STEEL. THIS SHALL SUPERCEDE SECTION 307.02.04 OF SCOW STANDARD SPECIFICATIONS.

NOT TO SCALE	CITY OF CAPITOLA	STANDARD DRAWINGS FOR	DRAWN: 1/15	REV:
DRAWN BY: BSW		BURIED VALVE ASSEMBLY		
CHECKED BY: JFR		STEVEN JESBERG, PUBLIC WORKS DIRECTOR	DRAWING No. CAP - 012	

METER BOX LOCATIONS

NOTES:

- WHEN LOCATED IN SHOULDER OR DRIVEWAY, METER BOXES SHALL HAVE 6" CRUSHED ROCK BASE AND C.I. COVERS.
- ALL BOXES SHALL BE SET TO EXISTING GRADE, BOTH IN EARTH OR CONCRETE SIDEWALK.
- WHEN INSTALLING A SERIES OF BOXES SIDE-BY-SIDE IN CONCRETE, ALLOW 6" BETWEEN BOXES FOR CONCRETE SUPPORT.
- WHEN CONDITIONS VARY FROM THOSE SHOWN ABOVE, SCOW WILL DESIGNATE LOCATION OF METER.

NOT TO SCALE	CITY OF CAPITOLA	STANDARD DRAWINGS FOR	DRAWN: 1/15	REV:
DRAWN BY: BSW		METER BOX LOCATIONS		
CHECKED BY: JFR		STEVEN JESBERG, PUBLIC WORKS DIRECTOR	DRAWING No. CAP - 012	

No.	REVISIONS	DATE	BY

Kimley»Horn

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KHA PROJECT 09776.3134
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DRAWN BY DW
CHECKED BY DC

CAPITOLA AVENUE SIDEWALK IMPROVEMENTS

PREPARED FOR
CITY OF CAPITOLA

SANTA CRUZ COUNTY CA

STD. No. S-3

REGISTERED PROFESSIONAL ENGINEER

J. W. J. No. C81401 Exp. 9/30/21
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: Oct 26, 2020

SOQUEL CREEK WATER DISTRICT

P.O. BOX 1550 CAPITOLA, CALIFORNIA 95010

STD. No. S-8



SHEET NO. 7 OF 9 SHEETS
CD-2A

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GENERAL NOTES:

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY AND CONSTRUCTION PROCEDURES.
2. SEE ROADWAY SHEETS FOR THE LOCATION OF STRUCTURAL ELEMENTS, WALL EXTENTS, TOP OF WALL ELEVATIONS, BOTTOM OF WALL ELEVATIONS, SITE FEATURES, UNDERGROUND UTILITIES AND SITE WORK LOCATIONS. VERIFY LOCATIONS FOR ALL UNDERGROUND UTILITIES BEFORE PROCEEDING WITH FOUNDATION EXCAVATION.
3. CONTRACTOR SHALL PROVIDE CONTINUOUS CONTROL OF SURFACE AND UNDERGROUND WATER AS REQUIRED DURING CONSTRUCTION SUCH THAT THE WORK IS DONE IN THE DRY.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL PROTECT THE WORK, ADJACENT PROPERTY, AND THE PUBLIC. CONTRACTOR SHALL NOT UNDERMINE EXISTING FOUNDATIONS.
5. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
6. NOTIFY THE ENGINEER IMMEDIATELY OF ANY EXISTING FOUNDATION CONDITIONS OR DETAILS THAT ARE IN CONFLICT WITH THOSE INDICATED AND SHOWN IN THE DRAWINGS.
7. REFER TO THE ENGINEER FOR INSTRUCTION FOR ANY DIMENSION NOT GIVEN ON DRAWINGS. SCALING OF DRAWINGS SHALL NOT BE USED TO OBTAIN OR VERIFY ANY DIMENSION SHOWN ON THE DRAWINGS.

FOUNDATIONS:

1. THE DESIGN OF RETAINING WALL ELEMENTS CONFORMS TO THE REQUIREMENTS OF THE 2016 CALIFORNIA BUILDING CODE (2016 CBC) AND REFERENCED STANDARDS AND THE GEOTECHNICAL REPORT PREPARED BY BUTANO GEOTECHNICAL ENGINEERING, INC. PROJECT No. 19-223-SC DATED DECEMBER 2019.
2. RETAINING WALL DESIGN IS BASED ON THE FOLLOWING SOIL PROPERTIES:
 NET ALLOWABLE BEARING PRESSURE = 1,500 PSF
 SOIL DENSITY = 120 PCF
 ACTIVE EQUIVALENT FLUID PRESSURE(E.F.P.) = 35 PSF/FT
 ALLOWABLE PASSIVE E.F.P. = 350 PSF/FT
 COEFFICIENT OF FRICTION = 0.35
3. SOIL FOR SUPPORT OF FOUNDATIONS SHALL BE VERIFIED BY A GEOTECHNICAL ENGINEER AT THE TIME OF EXCAVATION AND GRADING.
4. ALL EARTHWORK AND SOILS REQUIREMENTS SHALL BE PERFORMED AND PREPARED IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE GOEOTECHNICAL INVESTIGATION REPORT PREPARED BY BUTANO GEOTECHNICAL ENGINEERING, INC. REFERENCED ABOVE.
5. ALL BACKFILL REQUIREMENTS SHALL BE PERFORMED PER THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY BUTANO GEOTECHNICAL ENGINEERING, INC. REFERENCED ABOVE.
6. EXCAVATION BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. HEAVY EQUIPMENT FOR SPREADING AND COMPACTING BACKFILL SHALL NOT BE OPERATED CLOSER TO WALL THAN A DISTANCE EQUAL TO THE HEIGHT OF BACKFILL ABOVE TOP OF WALL FOOTING. THE AREA REMAINING SHALL BE COMPACTED BY HAND TAMPERS.

CAST-IN-PLACE CONCRETE:

1. READY-MIX CONCRETE WORK SHALL CONFORM TO ASTM C94.
2. STRUCTURAL CONCRETE MATERIALS SHALL CONFORM TO THE FOLLOWING:
 a. TYPE II PORTLAND CEMENT – ASTM C150
 b. AGGREGATES (3/4" MAX.) – ASTM C33
 c. AIR ENTRAINING (3.5% MIN. – 6.5% MAX.) – ASTM C260
 d. WATER REDUCING – ASTM C494
 e. FLY ASH (MAX 25% BY WEIGHT), TYPE F – ASTM C618
 f. WATER – CLEAN AND POTABLE
 g. REINFORCING STEEL: ASTM A615 GRADE 60
3. STRUCTURAL CONCRETE SHALL CONFORM TO THE FOLLOWING:
 a. CONCRETE MIXES AND EXPOSURE CLASS ACCORDING TO ACI 318:
 a.a. FOUNDATIONS 4,000 PSI CLASS F0
 a.b. WALLS 4,000 PSI, AIR-ENTRAINED CLASS F1
 b. MAXIMUM WATER-TO-CEMENT RATIO: 0.45
 c. TYPE I/II PORTLAND CEMENT – ASTM C150
 d. AGGREGATES (3/4" MAX.) – ASTM C33
4. REQUIRED SLUMP: 2" TO 4" (BEFORE ADDITION OF SUPERPLASTICIZER)
5. ALL CONCRETE MATERIALS, PLACING AND HANDLING SHALL BE IN ACCORDANCE WITH ACI 318-14 AND ACI 301-16. CONCRETE WORK SHALL CONFORM TO ACI 318-14.
6. SUBMITTALS:
 a. DETAILED SHOP DRAWINGS OF REINFORCING BARS SHOWING NUMBER, SIZE, AND LOCATION. INCLUDED BAR LISTS AND BEND DIAGRAMS.
 b. MIX DESIGNS FOR EACH TYPE OF CONCRETE SPECIFIED SHALL BE SUBMITTED FOR APPROVAL.
 c. PRODUCT DATA AND MATERIAL CERTIFICATES.

7. CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCH TIME.
8. ALL CONCRETE SHALL BE CONSOLIDATED IN PLACE USING INTERNAL VIBRATORS.
9. CAST-IN-PLACE CONCRETE SHALL BE CONTINUOUSLY CURED FOR 7 DAYS FOLLOWING INITIAL SET.
10. CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OPERATIONS IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS:
 a. WET CURE IN ACCORDANCE WITH ACI 301-16.
11. 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 REVIEW.
12. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING BARS ARE TO CENTERLINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO FACE OF CONCRETE.
13. REINFORCEMENT DETAIL DIMENSIONS SHALL BE OUT-TO-OUT OF BARS.
14. ACI STANDARD HOOKS SHALL BE USED UNLESS OTHERWISE NOTED.
15. ALL CONTINUOUS BARS SHALL HAVE CLASS "B" TENSION LAP SPLICES.
16. ALL LAP AND SPLICE LENGTHS SHALL BE IN ACCORDANCE WITH ACI 318-14 AND THE LATEST EDITION OF THE CRSI STANDARD PRACTICES, EXCEPT AS OTHERWISE NOTED.
17. PROVIDE 2" CONCRETE COVER OVER REINFORCING BARS EXCEPT AS OTHERWISE NOTED.
18. BARS SHALL BE FIELD TIED. WELDING IS NOT PERMITTED.
19. SUPPORT REINFORCEMENT IN ITS PROPER LOCATION FROM THE FORMWORK DURING CONCRETE OPERATION.
20. BAR SUPPORTS, DESIGN, DETAILING, FABRICATION, AND PLACING OF REINFORCING BARS SHALL BE IN ACCORDANCE WITH ACI 318-14.
21. PROVIDE 3/4" CHAMFERS AT ALL EXPOSED EDGES OF CONCRETE SURFACES, UNO.
22. PROVIDE VERTICAL FORMED CONTROL JOINTS AT LOCATIONS AS FOLLOWS:
 a. AT EACH FOOTING STEP
 b. WITHIN 5'-0" OF EACH CORNER
 c. NO FURTHER THAN 10'-0" MAXIMUM ON CENTER
24. CUT EVERY OTHER HORIZONTAL BAR AT CONTROL JOINT LOCATION EXCEPT TOP AND BOTTOM BARS. PROVIDE A 1/2" "V" JOINT ON BOTH SIDES OF THE WALL AT EACH CONTROL JOINT LOCATION.
25. FORM TIES AND REINFORCING BAR SUPPORTS SHALL BE OF NON-CORROSIVE MATERIAL INCLUDING, BUT NOT LIMITED TO, FIBERGLASS, PLASTIC, AND/OR CONCRETE BLOCK.
26. CONTRACTOR IS RESPONSIBLE FOR THE PROPER DESIGN AND CONSTRUCTION OF ALL FORMWORK AND SHORING. DESIGN SHALL BE PERFORMED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE IN WHICH WORK IS PERFORMED.
27. THE GENERAL CONTRACTOR SHALL ASSIST AND COOPERATE WITH AN INDEPENDENT TESTING LABORATORY WHICH SHALL CONDUCT ALL THE SPECIFIED TESTS REQUIRED FOR THE CONCRETE WORK AND REPORT THE RESULTS OF THIS TESTING DIRECTLY AND PROMPTLY TO THE ENGINEER FOR REVIEW.
28. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED BY THE OWNER TO PERFORM THE FOLLOWING:

 FOR EACH 150 CUBIC YARDS OR FRACTION THEREOF PLACED, 5,000 SQUARE FEET OF SURFACE AREA, OR EACH PLACEMENT OF EACH MIX DESIGN OF CONCRETE PLACED IN ANY ONE DAY, THE FOLLOWING SHALL BE PERFORMED:

 SLUMP: TEST IN ACCORDANCE WITH ASTM C143.
 AIR CONTENT: TEST IN ACCORDANCE WITH ASTM C231 OR C173.
 COMPR. STRENGTH: FABRICATE ONE SET OF 5 CYLINDERS TEST IN ACCORDANCE WITH ASTM C39.
 FABRICATE ONE SET OF FIVE CONCRETE TEST SPECIMENS (CYLINDERS) FOR EACH 50 CUBIC YARDS. TEST ONE CYLINDER AT 7 DAYS AND THREE AT 28 DAYS, AND HOLD ONE IN RESERVE.

29. ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO OWNER, ENGINEER AND CONTRACTOR.

SLUMP: TEST IN ACCORDANCE WITH ASTM C143.
 AIR CONTENT: TEST IN ACCORDANCE WITH ASTM C231 OR C173.
 COMPR. STRENGTH: FABRICATE ONE SET OF 5 CYLINDERS TEST IN ACCORDANCE WITH ASTM C39.
 FABRICATE ONE SET OF FIVE CONCRETE TEST SPECIMENS (CYLINDERS) FOR EACH 50 CUBIC YARDS. TEST ONE CYLINDER AT 7 DAYS AND THREE AT 28 DAYS, AND HOLD ONE IN RESERVE.

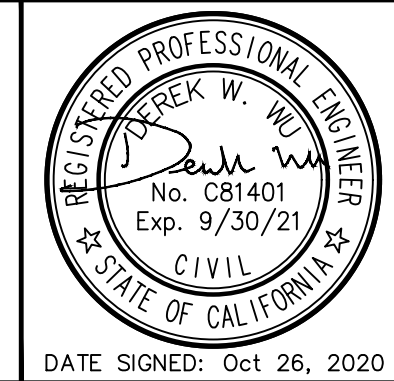
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CAPITOLA AVENUE SIDEWALK IMPROVEMENTS
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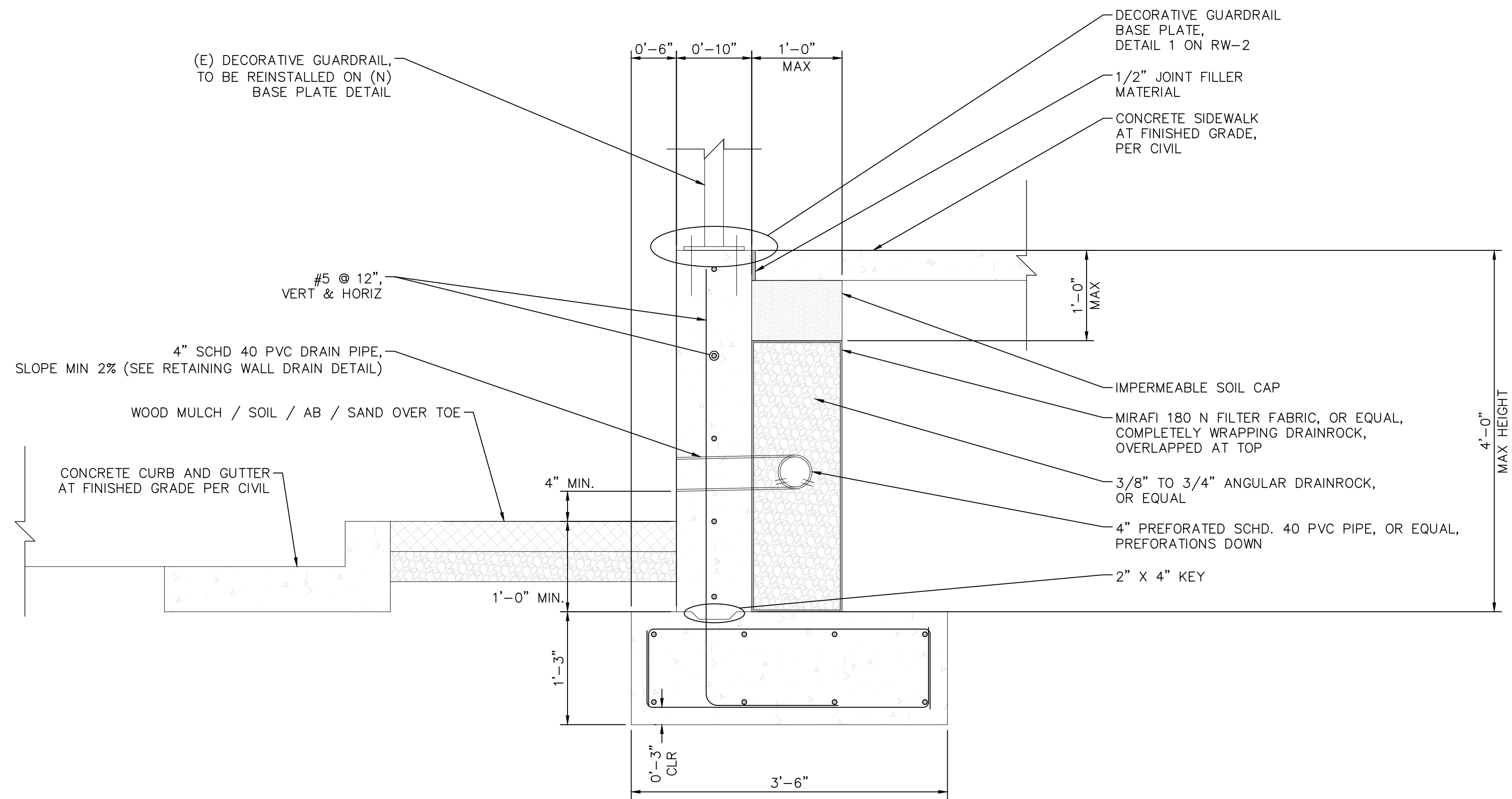


RETAINING WALL NOTES & DETAILS



SHEET NO. 8
 OF 9 SHEETS
RW-1A

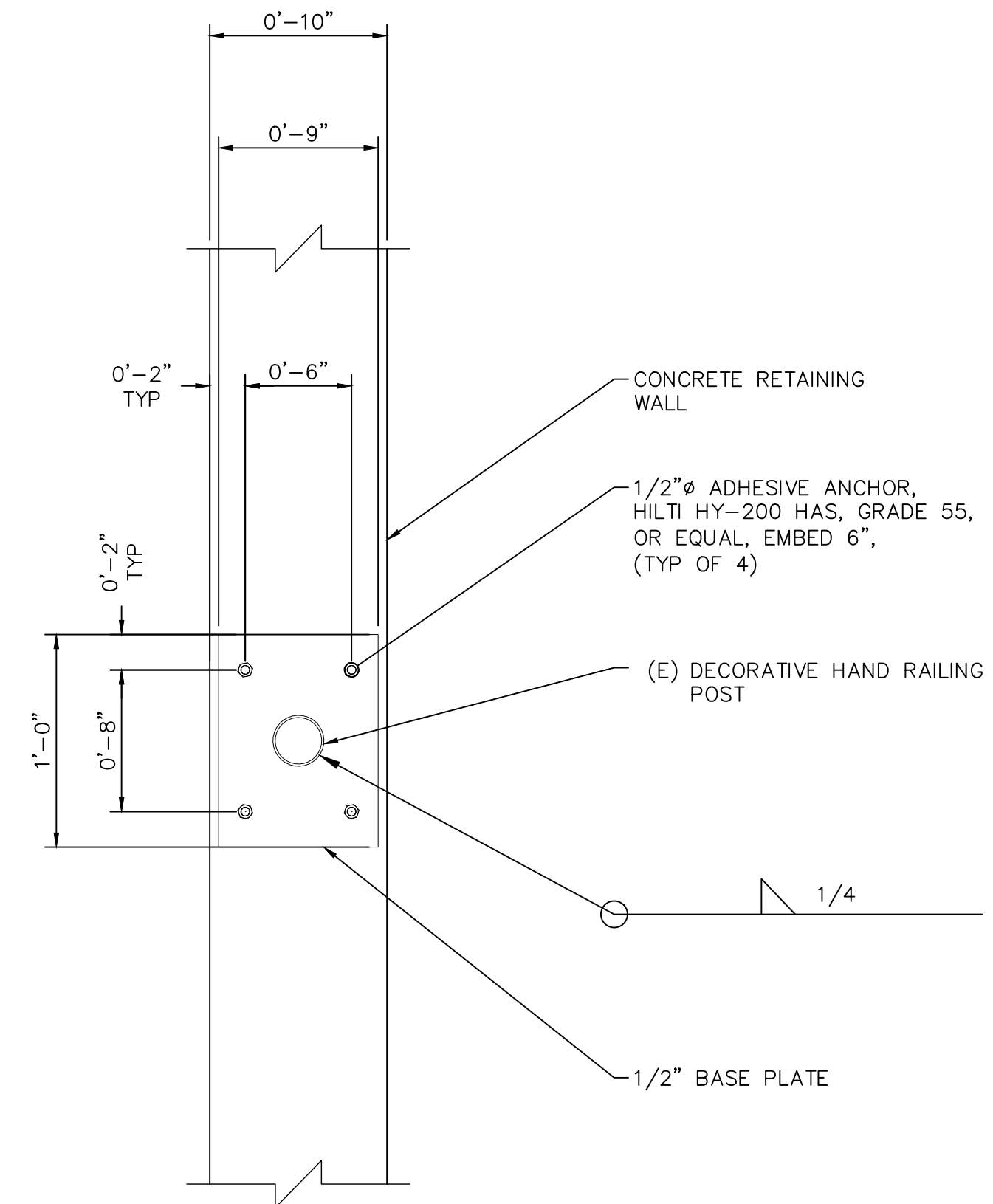
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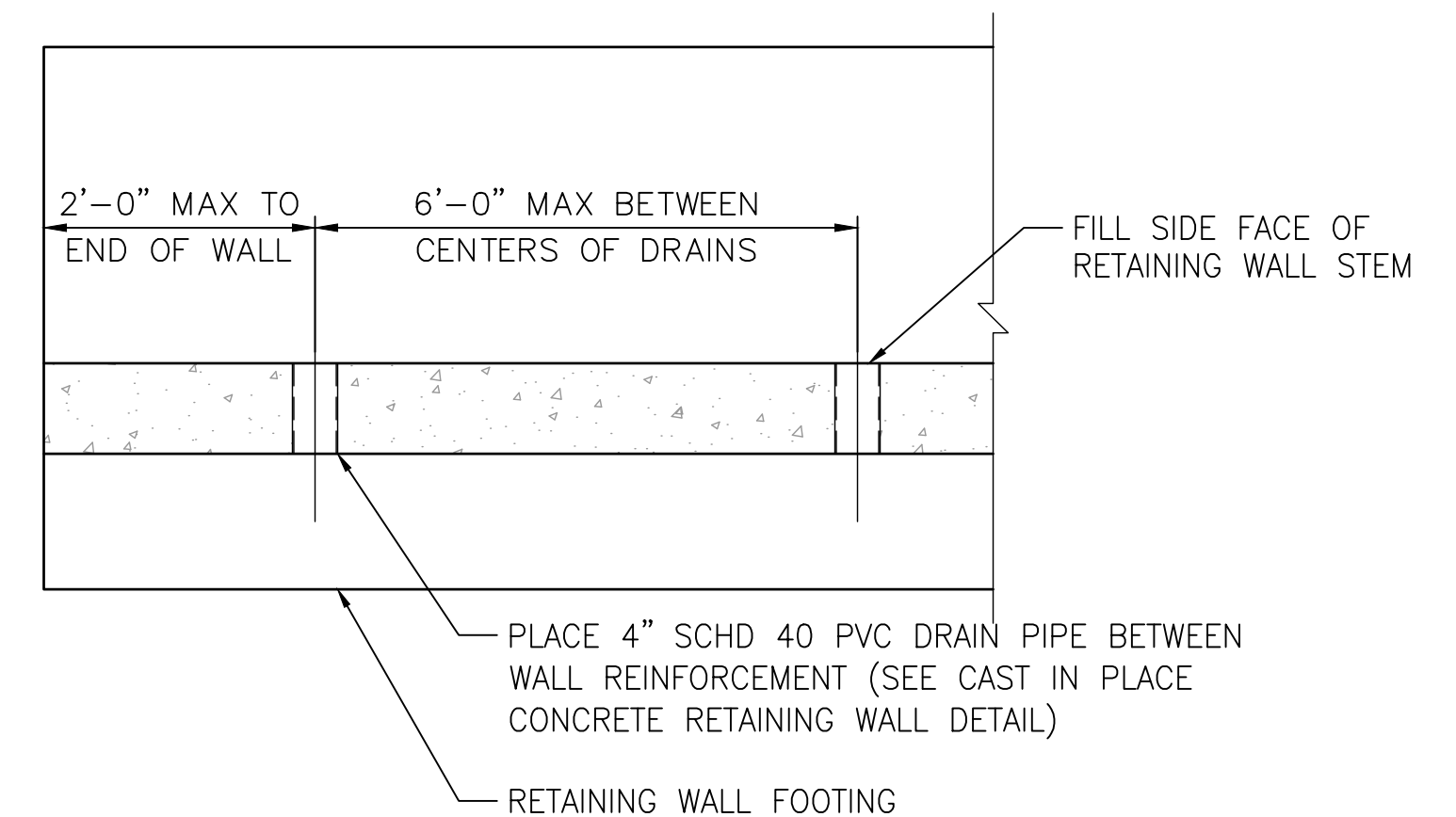
- NOTES:
- 1) COMPACT NATIVE SOIL BELOW BOTTOM OF FOOTING TO 90% RELATIVE DENSITY PER ASTM D1557.
 - 2) RETAINING WALLS SHALL NOT BE BACKFILLED WITHOUT ADEQUATE BRACING UNTIL WALLS HAVE REACH 100% OF SPECIFIED CONCRETE STRENGTH AND BACKFILL IS PLACED ON TOP OF FOOTING ON TOE SIDE.
 - 3) PLACE DRAIN ROCK BACKFILL AT RETAINING WALLS CAREFULLY BY HAND OPERATED EQUIPMENT ONLY.

1 CROSS-SECTION VIEW - CAST IN PLACE CONCRETE RETAINING WALL
RW-2 SCALE: NTS

- NOTES:
- 1) REMOVE (E) BASE PLATES ON RAILINGS AND WELD (N) BASE PLATE.
 - 2) REPAIR GALVANIZING REPAIR WITH HUB SILVER GALVANIZING PAINT, OR EQUAL.
 - 3) BASE PLATES DESIGNED FOR 6'-0" SPACING ON CENTER. VERIFY WITH ENGINEER IF LARGER SPACING USED.



2 PLAN VIEW - GUARDRAIL BASE PLATE
RW-2 SCALE: NTS



3 PLAN VIEW - RETAINING WALL DRAIN DETAIL
RW-2 SCALE: NTS

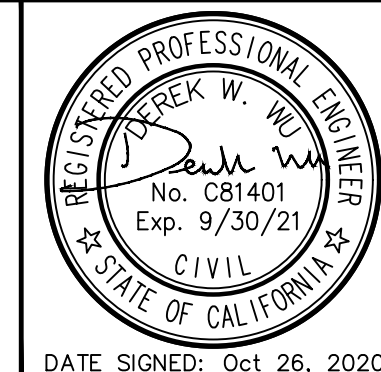


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RETAINING WALL SECTION VIEW DETAILS

SHEET NO. 9
OF 9 SHEETS

RW-2A