

City of Oakley
ADDENDUM NO. 1 to contract documents for
CIP 247 – East Cypress Road Widening Project From Knightsen
Avenue to Jersey Island Road

BID OPENING DATE: October 11, 2022 - 2:00 PM

Notice is hereby given that the following clarifications and revisions are made to the above referenced contract documents:

All bidders shall acknowledge receipt and acceptance of Addendum No. 1 by signing in the space provided at the end of this Addendum and submitting the signed addendum with their proposal.



Jason Kabalin
Capital Projects Engineer
October 3, 2022

Contractor Signature

Date

Company Name

I. Updates to the Part III of the Specifications:

1. Add the following to Appendix

APPENDIX E PG&E NEW SERVICE DRAWINGS
APPENDIX F Knighten and East Cypress Road intersection improvements design
 drawings for Subdivision 9033 Cypress Road Phase 3 Improvement plans

2. Add the following to Section 10-1.03 – Traffic Control and Construction Areas Signs

Contractor shall coordinate with adjacent project contractor to coordinate traffic control systems are in-sync with both projects and will coordinate the construction schedule of the two projects and update traffic control plans as needed. The adjacent intersection improvement project at Knightsen Avenue and East Cypress Road would begin around the same time as the CIP 247 Project. Contractor shall schedule two meetings with the adjacent project contractor to review traffic control plans and schedules.

The Contractor shall also coordinate with an adjacent project to the east – Grand Cypress Preserve (GCP Project) and coordinate two meetings to review the traffic flows for the GCP project.

All the above work is considered incidental to the bid item for Traffic Control System and Construction Area Signs.

3. Add the following to Section 10-1.08 – Hot Mix Asphalt (HMA)

Asphalt tracker shall ensure that excess material is placed back into the hopper. Excess raked material shall not be returned to the mat, to ensure a smooth asphalt pavement finish.

4. Add the following to Section 10-1.08 – Hot Mix Asphalt (HMA) under Measurement and Payment.

Section 9-1.07, "Payment Adjustments for Price Index Fluctuations" shall not apply to bid items related to Hot Mix Asphalt, Asphaltic Emulsion, and Asphalt Binders.

5. Replace the following Pay Clause in Section 10-1.08 – Hot Mix Asphalt (HMA) under Measurement and Payment.

DRIVEWAY CONFORM shall be at the cost indicated in the Bid Schedule. The contract price paid per ~~square-foot~~ Tons for the construction of DRIVEWAY CONFORM shall include, but is not limited to, full compensation for furnishing all labor, materials, tools, equipment, and incidentals required for doing all the work involved in constructing driveway conforms, including sawcutting, ~~excavation and backfill~~, asphalt concrete ~~and base material~~, compaction, complete in place, as shown on the Plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

6. Add the following to Section 10-1.09 – Rubberized Hot Mix Asphalt (HMA) under Measurement and Payment.

Section 9-1.07, "Payment Adjustments for Price Index Fluctuations" shall not apply to bid items related to Rubberized Hot Mix Asphalt, Asphaltic Emulsion, and Asphalt Binders.

7. Delete “base material and...” in the following Pay clause in Section 10-1.13 – Portland Cement Concrete.

CITY STANDARD SIDEWALK shall be at the cost indicated in the Bid Schedule. The contract price paid per square foot for the construction of CITY STANDARD SIDEWALK of various alignments, colors and finishes shall include, but is not limited to, full compensation for furnishing all labor, materials, tools, equipment, and incidentals required for doing all the work involved in constructing City standard sidewalk of various alignments, colors and finishes, including ~~excavation and backfill~~, formwork, expansion joints, fill, ~~base material and~~ reinforcement, complete in place, as shown on the Plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

CITY STANDARD CURB AND GUTTER shall be at the cost indicated in the Bid Schedule. The contract price paid per linear foot for the construction of CITY STANDARD CURB AND GUTTER shall include, but is not limited to, full compensation for furnishing all labor, materials, tools, equipment, and incidentals required for doing all the work involved in constructing miscellaneous concrete items, including ~~excavation and backfill~~, formwork, joints, fill, ~~base material and~~ reinforcement, complete in place, as shown on the Plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

M3-8 VERTICAL CURB shall be at the cost indicated in the Bid Schedule. The contract prices paid per linear foot for the construction of M3-8 VERTICAL CURB shall include, but is not limited to, full compensation for furnishing all labor, materials, tools, equipment, and incidentals required for doing all the work involved in constructing M3-8 vertical curb, including dowel reinforcement, formwork, expansion joints, score joints, weakened plane joints, fill, ~~base material and~~ reinforcement, complete in place, as shown on the Plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

CITY STANDARD DRIVEWAY shall be at the cost indicated in the Bid Schedule. The contract price paid per square foot for the construction of CITY STANDARD DRIVEWAY shall include, but is not limited to, full compensation for furnishing all labor, materials, tools, equipment, and incidentals required for doing all the work involved in constructing City standard driveway, including ~~excavation and backfill~~, formwork, expansion joints, score joints, weakened plane joints fill, ~~base material and~~ reinforcement, complete in place, as shown on the Plans, as

specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

CURB RAMP (CALTRANS CASE A) shall be at the cost indicated in the Bid Schedule. The contract price unit paid for the construction of CURB RAMP (CALTRANS CASE A) shall include, but is not limited to, full compensation for furnishing all labor, materials, tools, equipment, and incidentals required for doing all the work involved in constructing curb ramp (Caltrans Case A), including ~~excavation and backfill~~, formwork, expansion joints, weakened plane joints, tactile warning surface domes, fill, ~~base material and~~ reinforcement, complete in place, as shown on the Plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

RETAINING CURB shall be at the cost indicated in the Bid Schedule. The contract price paid per linear foot for the construction of RETAINING CURB shall include, but is not limited to, full compensation for furnishing all labor, materials, tools, equipment, and incidentals required for doing all the work involved in constructing retaining curb, including ~~excavation and backfill~~, formwork, expansion joints, score joints, weakened plane joints, fill, ~~base material and~~ reinforcement, complete in place, as shown on the Plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

BIORETENTION VERTICAL CURB shall be at the cost indicated in the Bid Schedule. The contract price paid per linear foot for the construction of BIORETENTION VERTICAL CURB shall include, but is not limited to, full compensation for furnishing all labor, materials, tools, equipment, and incidentals required for doing all the work involved in constructing bioretention vertical curb, including ~~excavation and backfill~~, formwork, expansion joints, score joints, weakened plane joints, fill, ~~base material and~~ reinforcement, complete in place, as shown on the Plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

BIORETENTION CURB AND GUTTER shall be at the cost indicated in the Bid Schedule. The contract price paid per linear foot for the construction of BIORETENTION CURB AND GUTTER shall include, but is not limited to, full compensation for furnishing all labor, materials, tools, equipment, and incidentals required for doing all the work involved in constructing bioretention curb and gutter, including ~~excavation and backfill~~, formwork, expansion joints, score joints, weakened plane joints, fill, ~~base material and~~ reinforcement, complete in place, as shown on the Plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.

8. Add the following to Section 10-1.17 – Utility Improvements under PG&E Electric Service and New Pedestal for Signal, Lighting, and Irrigation Controller

PG&E Design Drawings are included in the Appendix E – PG&E NEW SERVICE DRAWINGS. Contractor scope of work for the new service includes the following:

1. Contractor shall fill PG&E request for inspection form prior to beginning work for this item.
2. Contractor shall install a new #1 13"x24" Non-concrete pull box next to the PG&E pole.
3. Contractor shall install new 1-3" PVC Sch 40 conduit with polyester pulling tape from the riser pole to #1 pull box.
4. PG&E to install cable from the secondary riser to the #1 pull box.
5. PG&E to upgrade the overhead transformer.
6. Contractor shall install new 3" PVC Sch 40 conduit with polyester pulling tape and cable from the #1 pull box from the south side of East Cypress Road to the PG&E service point on the Northwest corner of Broadway and East Cypress Road intersection.
7. Contractor shall install a new Pedestal per Caltrans Standard Plans.
8. PG&E to install the meter inside the Pedestal
9. Contractor shall complete all associated improvements and activate the service for the new traffic signal controller, lighting, and irrigation service.

9. Replace the following Pay Clause in Section 10-1.17 – Utility Improvements under Measurement and Payment

PG&E ELECTRIC SERVICE AND NEW PEDESTAL FOR SIGNAL, LIGHTING, AND IRRIGATION CONTROLLER shall be at the cost indicated in the Bid Schedule. The contract lumpsum price paid for PG&E ELECTRIC SERVICE AND NEW PEDESTAL FOR SIGNAL, LIGHTING, AND IRRIGATION CONTROLLER shall include, but is not limited to, full compensation for furnishing all labor, materials, tools, equipment, and incidentals required for doing all the work involved in coordinating with PG&E Electric for their electric design for new service and pedestal installation and extending the 1-3" conduit with pull tape from the PG&E riser to the PG&E service point to the Controller, installing new pull box, installing splice cables from pull box to the service point, coordinating with PG&E for meter installation, and all associated improvements ~~and extending electrical conduits from the PG&E meter pedestal and service point to the Controller,~~ complete in place, as shown on the Plans, as specified in the Standard Specifications, these Technical Specifications and the Special Provisions, and as directed by the Engineer. Additionally, no payment will be made for work, equipment, or materials not covered in these plans and specifications, but necessary to insure a completed project as specified.






10. Replace the 1st paragraph under Maintenance heading in Section 10-1.25 – Landscape Planting

Contractor shall furnish all labor, material, equipment, and services required to maintain the landscape in a healthy and attractive condition for a period of 90 days from the date of final acceptance of the project by the City Council.

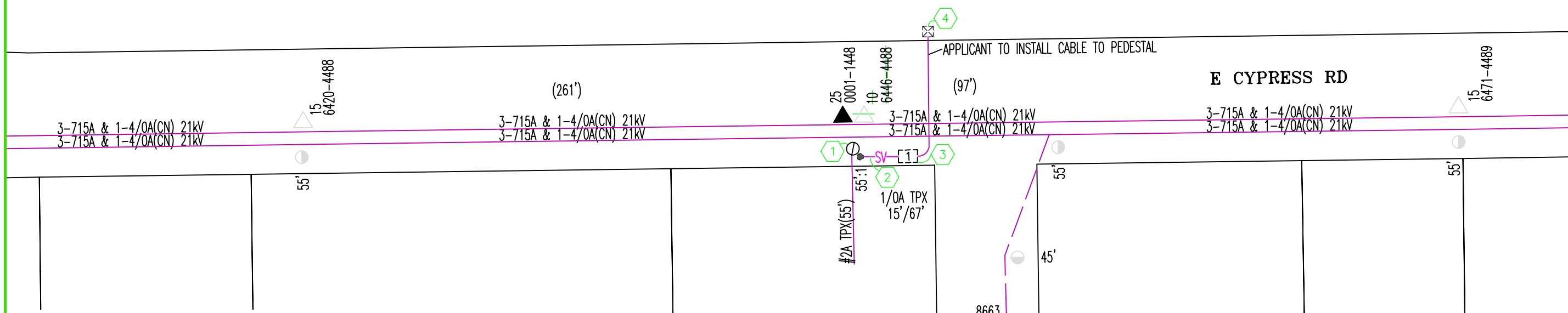
Appendix E

PG&E NEW SERVICE DRAWINGS

LEGEND

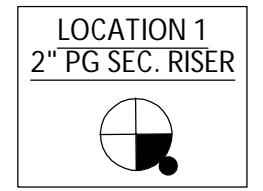
| INSTALL | DESCRIPTION |
|---|--|
|  | PG&E TO INSTALL 1/OA TPX SERVICE CABLE IN APPLICANT INSTALLED 1-3" CONDUIT |
|  | PG&E TO INSTALL (1) METER |
|  | PG&E TO UPGRADE OVERHEAD TRANSFORMER |
|  | PG&E TO INSTALL 2" SECONDARY RISER |
|  | APPLICANT TO INSTALL SERVICE ENCLOSURE 13" x 24" NON-CONCRETE (M040933) |
| XX'/XX' | FRANCHISE CONDUIT/CABLE |

CYPRESS & BROADWAY PEDESTAL
 100A MS (120/240V 1Ø)
 PROPOSED LOAD=2KVA
 AIC=10,000



JOB STORY:
 NEW UNDERGROUND SERVICE FOR 100A TRAFFIC PEDESTAL.
 APPLICANT TO TRENCH AND INSTALL SUBSTRUCTURES.
 PG&E TO INSTALL SERVICE RISER, CONDUCTOR TO SERVICE ENCLOSURE,
 METER & ENERGIZE.

BETTERMENT - PG&E TO UPGRADE OVERHEAD TRANSFORMER.



NOTES:

1. APPLICANT TO TRENCH & INSTALL SUBSTRUCTURES & BACKFILL PER PG&E SPECIFICATIONS.
2. APPLICANT IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CONTACT U.S.A LOCATE SERVICE AT 1-800-227-2600 AT LEAST 2 DAYS PRIOR TO TRENCHING
3. CONDUIT MUST BE RIGID PVC. SCHEDULE 40 OR BETTER. INSTALL A POLYESTER PULLING TAPE IN CONDUITS ATTACHED TO END CAPS. PULL TAPE CODE IS #56-0154
4. BACKFILL MATERIAL CONTAINING NOT MORE THAN OCCASIONAL ROUNDED ROCKS OF LESS 1/2" DIAMETER IS ACCEPTABLE. TRENCH MATERIAL MUST BE ON SITE AND MUST BE INSPECTED PRIOR TO BACKFILL.
5. ANY CHANGES OR MODIFICATIONS MUST BE APPROVED BY PG&E
6. ADEQUATE P.U.E'S AND/OR ROW'S IS NEEDED FOR PG&E FACILITIES. ANY ADDITIONAL REQUIRED RIGHTS OF WAY ARE TO BE SURVEYED AND DOCUMENTED. REFERENCE DOCUMENTS: GO TO :[HTTP://WWW.PGE.COM/GREENBOOK/](http://www.pge.com/greenbook/) TO LOCATE ENGINEERING

TRENCHING: DEVELOPER, GENERAL CONTRACTOR & ELECTRICAL CONTRACTOR: **PLEASE CONTACT PG&E UNDERGROUND INSPECTOR FOR A PRE-CONSTRUCTION MEETING, REFERENCE PM# 35345180 WHEN CALLING BEFORE ...** *BEGINNING SUBSTRUCTURE WORK. WORK NOT PROPERLY INSPECTED MAY BE REJECTED *PRIOR TO INSTALLATION OF ANY SUBSTRUCTURES (BOXES, PADS, ETC.), IF THERE ARE ANY CONFLICTS IN RELATIONSHIP TO ANY LANDSCAPING (MOUNDS,TREES, BUSHES, ETC).

COORDINATE #
 100000121448

LOADING DISTRICT
 SUMMER INTERIOR

TX SIZE - 25
 KVA 1Ø - 20.2
 KVA 3Ø -
 % L.F. - 61.2%

REQUIRED PERMITS

| | |
|---|--|
| <input type="checkbox"/> COUNTY | <input checked="" type="checkbox"/> CITY |
| <input checked="" type="checkbox"/> TRAFFIC CONTROL | |

| | |
|--------------------|----------------------|
| EST: JOEL TRIPLETT | 510-301-0015 |
| ADE: STANLEY HUI | 510-277-5456 |
| SUPV: PAUL LUCAS | 925-270-2275 |
| REP: REX MENESES | 925-270-2723 |
| PLNR: NA | |
| NOTIF: 122511696 | JPA#: NA |
| SCALE: NTS | DATE: 8/25/2022 |
| PM: 35345180 | SHEET: 1 OF 1 REV. 0 |

160: 100A PEDESTAL
 E CYPRESS RD & BROADWAY ST
 OAKLEY

NO ENVIRONMENTAL ISSUES

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

GAS CONFLICT: NO

NEAR LOC:

| | |
|-------------------------------|-----------------------|
| PRIMARY VOLTAGE: 21 kV | VOLTAGE AREA: 1 |
| LATITUDE: 37.990594 | LONGITUDE: -121.66553 |
| SOURCE SIDE DEVICE: 66654 | |
| SUB & CIRCUIT: BRENTWOOD 2112 | |
| DSGN SAG: SSSU | RAPTOR ZONE: YES |
| LOADING AREA: LIGHT | ARRESTER DIST: 3 |
| CORROSION AREA: NON | INSULATION DIST: B |
| EXEMPT EQUIP. INST.: N/A | FIRE AREA: LRA-TIER 1 |

Appendix F

Knighen and East Cypress Road intersection improvements design drawings for Subdivision
9033 Cypress Road Phase 3 Improvement plans

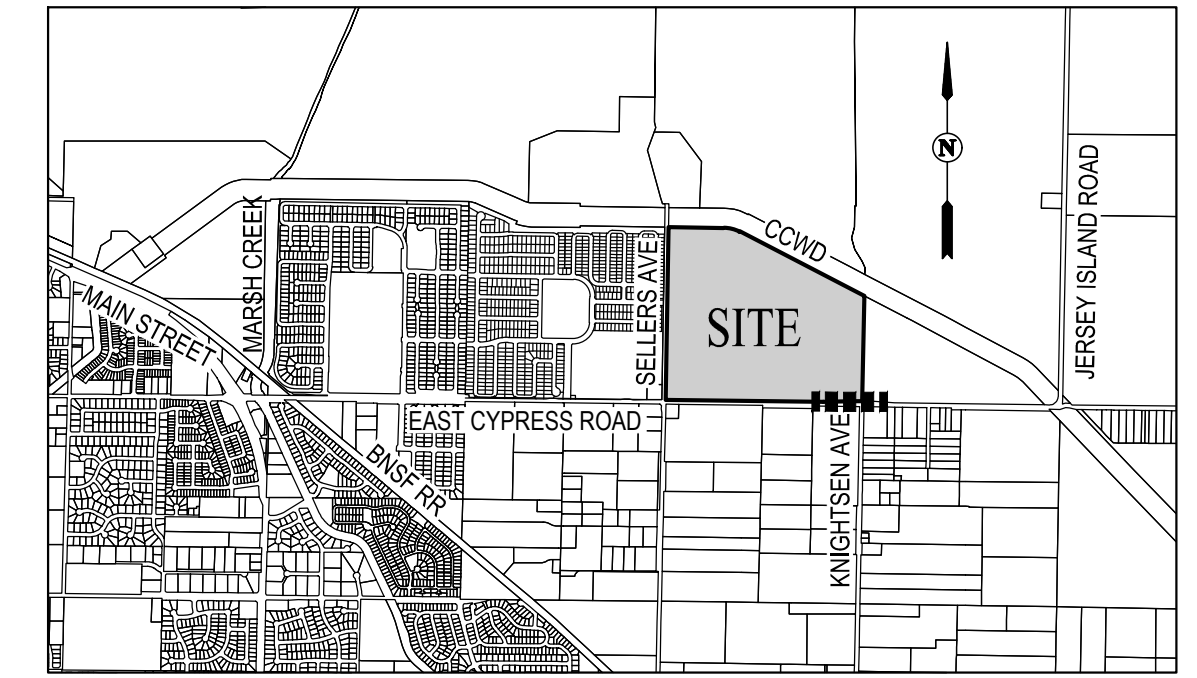
GENERAL NOTES:

1. **PROJECT SPONSOR:**
 DENOVA HOMES
 1500 WILLOW PASS COURT
 CONCORD, CALIFORNIA 94520
 PHONE: (925) 685-0110
 CONTACT: MICHAEL EVANS
2. **CIVIL ENGINEER:**
 CARLSON, BARBEE & GIBSON, INC.
 2633 CAMINO RAMON, SUITE 350
 SAN RAMON, CALIFORNIA 94583
 PHONE: (925) 866-0322
 CONTACT: ANGELO OBERTELLO
3. **SOILS ENGINEER:**
 STEVENS, FERRONE & BAILEY
 1600 WILLOW PASS COURT
 CONCORD, CALIFORNIA 94520
 PHONE: (925) 688-1001
 CONTACT: KEN FERRONE
 PROJECT NO: 155-61
 DATE: APRIL 13, 2015
4. **BENCH MARK:** CONTRA COSTA COUNTY BENCHMARK BM#3095.
 A BRASS DISC IN CONCRETE NORTHWEST CORNER OF NEW BRIDGE OVER MARSH CREEK AT ITS INTERSECTION WITH CYPRESS ROAD, 400 FEET EAST OF THE INTERSECTION OF CYPRESS ROAD AND STATE HIGHWAY 4.

ELEVATION: 22.993 FEET (NGVD 29)
5. **PROJECT SITE APN'S:** 032-081-016
6. THE ENGINEER ASSUMES NO RESPONSIBILITY BEYOND THE ADEQUACY OF HIS DESIGN CONTAINED HEREIN.
7. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT ANGELO OBERTELLO WITH CARLSON, BARBEE, & GIBSON, INC. AT (925) 866-0322 FOR SUCH FURTHER EXPLANATION AS MAY BE NECESSARY.
8. CITY OF OAKLEY STANDARD DRAWINGS AND SPECIFICATIONS, SPECIFIC NOTES AND DETAIL DRAWINGS HEREON AND IN THE SOILS REPORT, TAKE PRECEDENCE OVER GENERAL DRAWINGS AND PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ALL REVISIONS TO THIS PLAN MUST BE REVIEWED BY THE PUBLIC WORKS AND ENGINEERING DIVISION PRIOR TO CONSTRUCTION AND SHALL BE ACCURATELY SHOWN ON REVISED PLANS STAMPED AND DISTRIBUTED BY THE PUBLIC WORKS AND ENGINEERING DIVISION PRIOR TO ACCEPTANCE OF THE WORK AS COMPLETE. AT LEAST ONE SET OF APPROVED PLANS SHALL BE ON THE SITE AT ALL TIMES FOR INSPECTION.
9. 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 THE OWNER, THE ENGINEER, AND THE CITY OF OAKLEY 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 THE OWNER, THE ENGINEER, OR THE CITY OF OAKLEY.
10. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED AND SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM LACK OF ADEQUATE SHORING, BRACING AND SHEETING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL EFFECT NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, STRUCTURE AND/OR BORING OR JACKING PIT IS FIVE FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL ALWAYS COMPLY WITH O.S.H.A. REQUIREMENTS.
11. CONTRACTOR SHALL COMPLY WITH ALL STATE, COUNTY AND CITY LAWS AND ORDINANCES AND REGULATIONS OF THE DEPARTMENT OF INDUSTRIAL RELATIONS, O.S.H.A., THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY CONSTRUCTION ORDERS AND INDUSTRIAL ACCIDENT COMMISSION RELATING TO THE SAFETY AND CHARACTER OF WORK, EQUIPMENT AND LABOR PERSONNEL.
12. ALL CONSTRUCTION MATERIALS AND METHODS SHALL COMPLY WITH THE ORDINANCES, SPECIFICATIONS AND STANDARDS OF THE CITY OF OAKLEY. SEE CONSTRUCTION MATERIALS SHEET 3.
13. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF THE DIVISION OF INDUSTRIAL SAFETY PERTAINING TO "CONFINED SPACES." ANY MANHOLE, CULVERT, DROP INLET OR TRENCH (WHICH COULD CONTAIN AIR), THAT IS NOT READILY VENTILATED, MAY BE CONSIDERED A "CONFINED SPACE."
14. CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR THE CITY OF OAKLEY DEPARTMENT OF PUBLIC WORKS, AMBULANCE, POLICE DEPARTMENT AND THE CCC FIRE DISTRICT AT THE JOB SITE.
 DEPARTMENT OF PUBLIC WORKS: (925) 625-7037
 AMBULANCE: 911
 POLICE DEPARTMENT: (925) 625-8060
 CCC FIRE DISTRICT: (925) 930-5500

SUBDIVISION 9033 CYPRESS ROAD PHASE 3 IMPROVEMENT PLANS

CITY OF OAKLEY CONTRA COSTA COUNTY, CALIFORNIA



VICINITY MAP
NOT TO SCALE

15. THE TERM "CITY ENGINEER" SHALL MEAN THE CITY ENGINEER OF THE CITY OF OAKLEY OR HIS AUTHORIZED REPRESENTATIVE.
16. THE CONTRACTOR SHALL CONTACT PUBLIC WORKS AND ENGINEERING DIVISION INSPECTOR AT LEAST THREE (3) WORKING DAYS PRIOR TO DESIRED START OF WORKING DATE AND ARRANGE A PRECONSTRUCTION MEETING AT THE JOB SITE. THE FOLLOWING PEOPLE SHALL BE PRESENT: THE OWNER, CONTRACTOR, PROJECT CIVIL ENGINEER, PROJECT SOILS ENGINEER, ENGINEERING DIVISION INSPECTOR, AND THE CITY ENGINEER OR DESIGNATED REPRESENTATIVE.
17. THE CONTRACTOR SHALL PROVIDE FOR INGRESS AND EGRESS TO PRIVATE PROPERTY ADJACENT TO THE WORK AREA THROUGHOUT THE PERIOD OF CONSTRUCTION.
18. ENCROACHMENT PERMITS REQUIRED FOR WORK WITHIN EXISTING PUBLIC RIGHTS OF WAY SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO STARTING ANY CONSTRUCTION.
19. OBSTRUCTIONS INDICATED ARE FOR INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTH OF ALL OBSTRUCTIONS WITH THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (U.S.A.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION. PHONE (800) 227-2600. NEITHER THE OWNER NOR THE ENGINEER ASSUMES RESPONSIBILITY THAT THE OBSTRUCTIONS INDICATED WILL BE THE OBSTRUCTIONS ENCOUNTERED. THE USA AUTHORIZATION NUMBER SHALL BE KEPT AT THE JOB SITE.
20. THE CONTRACTOR IS RESPONSIBLE FOR PRESERVATION AND/OR PERPETUATION OF ALL EXISTING MONUMENTS WHICH CONTROL SUBDIVISIONS, TRACTS, STREETS, OR HIGHWAYS, OR PROVIDE SURVEY CONTROL, WHICH WILL BE DISTURBED OR REMOVED DUE TO CONTRACTOR'S WORK. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 10 WORKING DAYS NOTICE TO PROJECT ENGINEER/SURVEYOR PRIOR TO DISTURBANCE OR REMOVAL OF EXISTING MONUMENTS. PROJECT ENGINEER/SURVEYOR SHALL COORDINATE WITH THE CONTRACTOR TO RESET MONUMENTS OR PROVIDE PERMANENT WITNESS MONUMENTS AND FILE THE REQUIRED DOCUMENTATION WITH THE COUNTY SURVEYOR PER BUSINESS AND PROFESSIONS CODE SECTION 8771.
21. PRIOR TO PLACING CURB, SIDEWALK, ASPHALT CONCRETE, SUB-BASE, OR BASE MATERIAL, ALL UNDERGROUND UTILITIES WITHIN THE RIGHT-OF-WAY SHALL BE INSTALLED, BACKFILL COMPLETED, AND THE PUBLIC WORKS AND ENGINEERING DIVISION'S CONSTRUCTION DIVISION NOTIFIED BY EACH OF THE UTILITY COMPANIES HAVING FACILITIES IN THE WORK AREA THAT THE UTILITY INSTALLATION HAS SATISFACTORILY PASSED ACCEPTANCE TESTS.
22. NO WORK SHALL BE PERFORMED WITHOUT INSPECTION BY THE CITY. IF ANY WORK THAT REQUIRES INSPECTION MUST BE PERFORMED OUTSIDE OF NORMAL WORKING HOURS, CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR INSPECTION SERVICES TO THE CITY ENGINEER TWO (2) WORKING DAYS IN ADVANCE OF THE TIME SUCH SERVICES WILL BE REQUIRED.
23. THE OWNER'S ENGINEER WILL PROVIDE THE CONSTRUCTION STAKES. THE NUMBER AND LOCATION OF STAKES REQUIRED SHALL BE DETERMINED BEFORE THE CONSTRUCTION BEGINS. ALL STAKING REQUESTS SHALL BE DIRECTED TO THE ENGINEER A MINIMUM OF 2 WORKING DAYS PRIOR TO ACTUAL NEED. ANY ADDITIONAL STAKING OR RESTAKING WILL ONLY BE DONE AS DIRECTED AND AUTHORIZED BY THE OWNER OR HIS AUTHORIZED AGENT. THE CITY ENGINEER HAS THE AUTHORITY TO REQUIRE THE OWNER OR HIS AUTHORIZED AGENT TO PLACE ADDITIONAL STAKES OR RESTAKES AS HE DEEMS NECESSARY FOR PROPER CONSTRUCTION OR TO AVOID CONFLICTS. ALL CONSTRUCTION STAKING SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR.
24. ALL EXISTING ELEVATIONS SHOWN ARE AS MEASURED IN THE FIELD UNLESS OTHERWISE NOTED.
25. IT SHALL BE THE RESPONSIBILITY OF THE APPLICANT/ENGINEER TO CONTACT THE VARIOUS UTILITY AGENCIES, ADVISE THE AGENCIES OF THE PROPOSED IMPROVEMENTS, AND PAY FOR THE COST OF RELOCATIONS, IF NEEDED.
26. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER OF ANY DIFFERENCES IN LOCATION OF EXISTING UTILITIES FROM THAT SHOWN, OR OF ANY CONFLICTS WITH THE DESIGN BEFORE CONTINUING WITH WORK IN THAT AREA.
27. SUBGRADE MUST BE CERTIFIED PRIOR TO ROCK PLACEMENT.
28. CONTRACTOR SHALL COORDINATE SANITARY SEWER, STORM DRAIN AND WATER CONSTRUCTION IN A MANNER TO PREVENT ANY CONFLICTS WHERE UTILITY LINES CROSS EACH OTHER.
29. ALL CURB DATA REFERS TO "FACE OF CURB," AND STATIONING REFERS TO THE INDICATED CENTERLINE.
30. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT IN PLACE (BY ANY MEANS NECESSARY) ALL EXISTING UTILITIES UNLESS OTHERWISE SPECIFIED ON THESE PLANS OR AS DIRECTED BY THE ENGINEER.
31. EXISTING CURBS, SIDEWALKS AND UTILITIES WITHIN OR ADJACENT TO THE PROJECT LIMITS THAT ARE DAMAGED OR DISPLACED, EVEN THOUGH THEY WERE NOT TO BE REMOVED, SHALL BE REPAIRED OR REPLACED EVEN IF DAMAGE OR DISPLACEMENT OCCURRED PRIOR TO ANY WORK PERFORMED BY THE CONTRACTOR.
32. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR FINAL GRADE OF CONCRETE UNLESS FORMS ARE CHECKED PRIOR TO POURING.
33. ALL SANITARY SEWER AND STORM DRAIN CONSTRUCTION SHALL PROCEED FROM THE DOWNSTREAM CONNECTION TO THE UPSTREAM TERMINUS.
34. SUBGRADE SHALL BE BROUGHT TO GRADE PRIOR TO INSTALLATION OF WATER MAIN.
35. THE CONTRACTOR SHALL INSTALL BLUE REFLECTIVE MARKERS 4' OFF THE STREET CENTERLINE OPPOSITE EACH FIRE HYDRANT.
36. MANHOLE, VALVE AND METER BOX RIM ELEVATIONS, IF SHOWN, ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE RIMS AND COVERS TO THE FINISHED PAVEMENT GRADE. IN UNIMPROVED STREETS, THE RIMS SHALL BE SET AT THE ELEVATION SHOWN.
37. ALL SANITARY SEWER LATERALS SHALL HAVE AN INSIDE DIAMETER OF 4 INCHES, AND SHALL BE EXTENDED PAST THE RIGHT-OF-WAY A MINIMUM OF 2'. ALL LATERALS SHALL BE PROVIDED WITH A CLEAN-OUT. THE CLEAN-OUT SHALL BE PLACED 24" CLEAR OF THE BACK OF CURB AND HAVE 60" MINIMUM COVER.
38. CONCRETE ANCHORS OR THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, VALVES AND BEHIND ALL TEES, FIRE HYDRANTS AND CROSSES, PER STANDARD DRAWINGS.
39. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY ENGINEER PRIOR TO THE START OF ANY WORK WITHIN A PUBLIC RIGHT-OF-WAY.
40. SILT AND EROSION CONTROL PLANS ARE REQUIRED FOR WORK YEAR ROUND. SEDIMENT CONTROL BMP'S SHALL BE IMPLEMENTED YEAR ROUND.
41. GRADES OF FUTURE OR UNIMPROVED STREETS ARE NOT APPROVED BY THESE PLANS.
42. JOINTS BETWEEN NEW PAVEMENT AND EXISTING PAVEMENT SHALL BE MADE BY SAW-CUTTING EXISTING PAVEMENT TO EFFECT A NEAT BUTT JOINT INCLUDING GRINDING AT THE JOINT AS PER CCC PUBLIC WORKS STANDARD PLAN CD01i. REFER TO ALTERNATE CONFORM NOTES ON CCC PUBLIC WORKS STANDARD PLAN CD01i. FEATHERING NEW ASPHALT PAVING OVER EXISTING PAVEMENT IS NOT ALLOWED.
43. SIGNING AND STRIPING SHALL BE DONE IN ACCORDANCE WITH CALTRANS SPECIFICATIONS, STANDARD PLANS AND TRAFFIC MANUAL.
44. NO FINAL PAVING SHALL BE DONE UNTIL EXISTING POWER POLES AND OTHER EXISTING FACILITIES, ARE RELOCATED OUTSIDE THE AREAS TO BE PAVED.
45. LOT LINE EXTENSIONS SHALL BE CLEARLY MARKED WITH AN "X" CHISELED IN THE CONCRETE AT THE TOP OF CURB.
46. PRIOR TO FINAL ACCEPTANCE BY THE CITY OF ANY IMPROVEMENTS, ALL FIRE HYDRANTS SHALL BE TESTED TO ENSURE ACTUAL FLOWS MEET OR EXCEED FIRE DISTRICTS STANDARDS.
47. ALL "CAT-TRACKING" SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO ANY PERMANENT STRIPING BEING PLACED.
48. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN, OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY AND TO MAINTAIN TRAFFIC CONTROL AT ALL TIMES. SHOULD THE CONTRACTOR FAIL TO PROVIDE THE NECESSARY SAFETY DEVICES AND THEY ARE PROVIDED BY THE CITY, THE CONTRACTOR SHALL PAY THE CITY TIME AND MATERIAL COSTS FOR PROVIDING.
49. THE CONTRACTOR SHALL EXPOSE AND VERIFY INVERT ELEVATIONS ON EXISTING SANITARY AND STORM SEWERS AND CLEARANCES OF KNOWN UTILITY CROSSINGS BEFORE CONSTRUCTING SUCH UTILITIES. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THIS WORK TO AVOID CONFLICTS BETWEEN SEWER LATERALS, STORM DRAINS, AND WATER MAINS.
50. FIRE HYDRANTS SHALL BE INSTALLED AND IN SERVICE PRIOR TO COMBUSTIBLE CONSTRUCTION. (SEE NOTE 58)
51. ALL SANITARY SEWER MANHOLES MUST BE VACUUM TESTED.
52. MAILBOXES SHALL BE INSTALLED IN LOCATIONS APPROVED BY THE LOCAL POSTMASTER AND PER CITY OF OAKLEY STANDARD PLANS.
53. SUBGRADE FOR ALL STREET, CURB AND GUTTER, AND CONCRETE FLATWORK SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
54. ALL ON-SITE STORM DRAIN INLETS SHALL BE LABELED "NO DUMPING-DRAINS TO DELTA" USING APPROVED METHODS.
55. ALL DRIVEWAYS SHALL CONFORM TO THE BEVELED CURB DETAILS PER THIS SET OF PLANS.
56. ALL ELECTROLIERS ALONG IN-TRACT STREETS CONFORM TO THE CITY OF OAKLEY DECORATIVE STREET LIGHT STANDARD. REFER TO THE JOINT TRENCH PLANS FOR THE ELECTROLIER WAITAGES.
57. ALL CATHODIC PROTECTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THE CITY OF OAKLEY STANDARDS.
58. NO FOUNDATIONS TO BE CONSTRUCTED OR COMBUSTIBLE MATERIALS TO BE BROUGHT ON SITE UNTIL THE FIRST LIFT OF ASPHALT HAS BEEN PLACED.
59. TRAFFIC CONTROL SHALL BE PROVIDED IN CONFORMANCE WITH THE LATEST EDITION OF THE "MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES" ISSUED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, AND AS REQUIRED BY THE CITY ENGINEER.
60. TREES SHALL NOT BE PLANTED WITHIN THE CITY OF OAKLEY RIGHT-OF-WAY UNLESS A PERMIT HAS BEEN OBTAINED FROM THE COMMUNITY DEVELOPMENT DEPARTMENT, OR THE TREES ARE PLANTED IN ACCORDANCE WITH A LANDSCAPE PLAN APPROVED BY THE CITY ENGINEER AND COMMUNITY DEVELOPMENT DIRECTOR.
61. ALL TRAFFIC SIGNS AND STREET NAME SIGNS SHALL BE HIGH INTENSITY REFLECTIVE GRADE MATERIALS.

**SEE SHEET 2 FOR A
CONTINUATION OF THE
GENERAL NOTES**

TRAFFIC HANDLING PLAN:

THE CONTRACTOR SHALL PROVIDE THE CITY OF OAKLEY A TRAFFIC HANDLING PLAN FOR REVIEW AND APPROVAL PRIOR TO BEGINNING CONSTRUCTION.

SHEET INDEX

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2. GENERAL NOTES (CONTINUED)
3. LEGEND, ABBREVIATIONS, PAVEMENT DESIGN CHART, UTILITY SCHEDULE & TYPICAL STREET SECTIONS
4. MISCELLANEOUS DETAILS
5. PLAN & PROFILE - 88+00 TO 95+50
6. CROSS SECTIONS
7. SIGNING & STRIPING PLAN
8. KNIGHTSEN AVENUE WIDENING
9. EROSION CONTROL PLAN
10. EROSION CONTROL NOTES
- TS TRAFFIC SIGNAL PLANS (Y&C)
- INT JOINT TRENCH PLANS (GIACALONE)



THIS PLAN HAS BEEN REVIEWED BY STEVENS, FERRONE & BAILEY, AND APPEARS TO BE IN GENERAL CONFORMITY WITH THE RECOMMENDATIONS IN OUR REPORT DATED APRIL 13, 2015. WE MAKE NO REPRESENTATION AS TO ACCURACY OF DIMENSIONS, MEASUREMENTS, CALCULATIONS, OR ANY PORTION OF THE DESIGN.

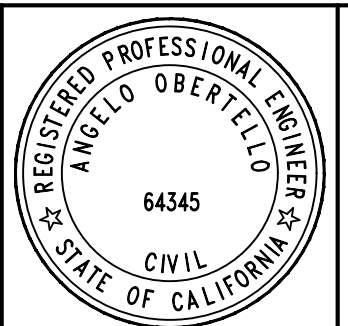
CONTACT: KEN FERRONE _____ DATE _____
 G.E. No. 2513

| | |
|----------------------------------|----------------------------------|
| APPROVED BY: _____ DATE _____ | APPROVED BY: _____ DATE _____ |
| DIABLO WATER DISTRICT | IRONHOUSE SANITARY DISTRICT |

REVIEWED FOR CONFORMANCE WITH CITY OF OAKLEY STANDARDS AND REQUIREMENTS. APPROVAL FOR CONSTRUCTION IS SUBJECT TO THE INFORMATION SHOWN HEREIN. THE CITY OF OAKLEY AND THE UNDERSIGNED ARE NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY EXIST ON THESE PLANS.

KOUROSH ROHANI, CITY ENGINEER _____ DATE _____
 RCE 51138

| | |
|--|------------------|
| DESIGNED UNDER THE DIRECTION OF: ANGELO OBERTELLO R.C.E. No. 64345 | DATE: 07/07/2022 |
| DESIGN: KEJ | DATE: JULY, 2022 |
| DRAWN: KEJ | DATE: JULY, 2022 |
| CHECKED: AJO | DATE: JULY, 2022 |



SHEET
1
OF
10
SHEETS



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**GENERAL NOTES, SHEET INDEX,
& VICINITY MAP**

CITY OF OAKLEY **CALIFORNIA**

| NO. | REVISIONS | BY | APP | DATE |
|-----|-----------|----|-----|------|
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GENERAL NOTES:

(CONTINUED FROM SHEET 1)

- 62. IF ANY CULTURAL FEATURES OR ARCHAEOLOGICAL MATERIALS ARE UNCOVERED DURING GRADING, TRENCHING, OR OTHER EXCAVATION WORK, ALL EARTHWORK WITHIN 100 FEET OF THESE MATERIALS SHALL BE STOPPED UNTIL A PROFESSIONAL ARCHAEOLOGIST CERTIFIED BY THE SOCIETY OF PROFESSIONAL ARCHAEOLOGY (SOPA) AND/OR THE SOCIETY OF CALIFORNIA ARCHAEOLOGY (SCA) HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND SUGGEST APPROPRIATE MITIGATION MEASURES IF THEY ARE DEEMED NECESSARY.
- 63. ANY DISAGREEMENTS WITH PLANS OR SPECIFICATIONS MUST BE HANDLED THROUGH CHANNELS: INSPECTORS, COMMUNITY DEVELOPMENT, ENGINEER, THEN CITY ENGINEER.
- 64. IF DRIVEWAY DEPRESSIONS ARE MADE IN ANY CURB, DRIVEWAY APPROACHES ARE THEN CONSIDERED TO BE PART OF THE IMPROVEMENT PLAN AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF OAKLEY STANDARD PLANS.
- 65. MONUMENTS ARE TO BE SET AS SHOWN ON THE PLANS AND PER THE REQUIREMENTS OF THE SUBDIVISION MAP ACT, LAND SURVEYORS ACT, CITY SUBDIVISION ORDINANCE AND IN ACCORDANCE WITH THE RULES AND PROCEDURES APPROVED BY THE COUNTY SURVEYOR. ALL LOT CORNERS AND TRACT BOUNDARIES SHALL BE LOCATED AND MONUMENTED IN ACCORDANCE WITH THE RECORDED TRACT MAP AND WRITTEN CERTIFICATION SHALL BE SUBMITTED TO THE CITY ENGINEER BY THE PROJECT CIVIL ENGINEER.
- 66. THE CONTRACTOR SHALL NOTIFY THE CONTRA COSTA COUNTY FLOOD CONTROL DISTRICT AND EAST CONTRA COSTA IRRIGATION DISTRICT PRIOR TO STARTING WORK NEAR DISTRICT'S FACILITIES AND SHALL COORDINATE ALL WORK WITH DISTRICT'S REPRESENTATIVES, INCLUDING THE DEPARTMENT OF FISH AND GAME.
- 67. FORMS FOR CURBS, GUTTERS, AND SIDEWALKS MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF CONCRETE.
- 68. ALL PAVEMENT MARKINGS IN THE PUBLIC RIGHT-OF-WAY SHALL BE THERMOPLASTIC.
- 69. THE CONTRACTOR SHALL REVIEW THE CURRENT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PROVIDED BY THE OWNER. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY FOR CONDUCTING HIS OPERATIONS IN ADHERENCE TO THE SWPPP. THE CONTRACTOR IS RESPONSIBLE FOR ANY FINES, DELAYS, AND/OR DAMAGES RESULTING FROM ANY STATE WATER QUALITY CONTROL BOARD SANCTIONS CAUSED BY THE OPERATION OF THE CONTRACTOR OR HIS SUBCONTRACTORS.
- 70. PRIOR TO CONSTRUCTION, DEVELOPER SHALL ACQUIRE ALL NECESSARY PERMITS FROM: CONTRA COSTA COUNTY FLOOD CONTROL, CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, EAST CONTRA COSTA IRRIGATION DISTRICT, CALIFORNIA FISH & GAME, AND U.S. ARMY CORPS OF ENGINEERS. ALL WORK DONE WITHIN EXISTING CITY OF OAKLEY RIGHT-OF-WAYS WILL REQUIRE A CITY ENCROACHMENT PERMIT.
- 71. THE DEVELOPER SHALL PAVE ALL NEW PROPOSED SUBDIVISION ROADS PRIOR TO THE ISSUANCE OF THE FIRST BUILDING PERMIT. IF THIS IS NOT SATISFIED, THE DEVELOPER MUST SUBMIT A PHASING PLAN SUBJECT TO THE CITY ENGINEER'S APPROVAL INDICATING WHAT ROADS WILL BE PAVED AND WHAT LOTS ARE PLANNED TO BE BUILT. SUBDIVISION PHASING PLANS MAY CAUSE RESTRICTIONS TO THE ISSUANCE OF BUILDING PERMITS.
- 72. ALL WORK SHALL BE PERFORMED BETWEEN THE NORMAL WORKING HOURS OF 7:30 A.M. TO 5:30 P.M., MONDAY THROUGH FRIDAY EXCLUDING SATURDAY, SUNDAY, AND CITY HOLIDAYS, EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER IN WRITING.
- 73. NO TREES SHALL BE REMOVED UNLESS THEY ARE SHOWN AND NOTED TO BE REMOVED ON THE GRADING PLANS OR IMPROVEMENT PLANS. IF ANY TREES ARE TO BE REMOVED, THE PLANS MUST BE REVIEWED AND ACKNOWLEDGED BY THE COMMUNITY DEVELOPMENT DEPARTMENT. ALL TREES CONFLICTING WITH GRADING, UTILITIES, OR OTHER IMPROVEMENTS, OR OVERHANGING THE SIDEWALK OR PAVEMENT SO AS TO FORM A NUISANCE OR HAZARD, SHALL BE TRIMMED, PROPERLY TREATED OR SEALED.
- 74. ALL SUBDIVISION STREETS THAT ARE STUBBED OUT FOR FUTURE USE SHALL HAVE A SIGN POSTED AT THE END OF THE DEAD END STREET THAT READS "THIS STREET IS PLANNED TO BE EXTENDED". THE SIGN SHALL BE REFLECTORIZED WITH BLACK TWO (2) INCH CAPITAL SERIES "E" LETTERS ON A WHITE BACKGROUND AND MEASURING 18" HIGH BY 36" WIDE. INSTALL WITH W31 (END) SIGN BEHIND STANDARD END OF STREET BARRICADE.
- 75. ALL STORM DRAIN MANHOLES AND INLETS SHALL BE PROVIDED WITH STEPS IN ACCORDANCE WITH THE CITY OF OAKLEY STANDARD PLANS.

CONTRA COSTA COUNTY STANDARD PLANS

CA511 TYPICAL ASPHALT CONFORM DETAILS FOR OVERLAY
CA701 STANDARD SIDEWALK DETAILS
CA711 MEDIAN, CURB, AND AC DIKE DETAILS
CD061 SIDEWALK CROSS DRAIN & RESIDENTIAL SIDEWALK DRAIN
CA401 STREET SURVEY MONUMENT
CD201 TYPE "A" STORM DRAIN INLET
CD111 INLET FRAME AND GRATE
CD301 PRECAST MANHOLE TYPE 1 BASE, FRAME AND COVER
CRS11 SIGNING AND STRIPING STANDARDS TYPE III
CD011 STORM DRAIN TRENCH DETAILS
CU011 UTILITY TRENCH CUT DETAILS
CU601 STANDARD UTILITY LOCATIONS

- 76. ALL STREET IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF TITLE 9 OF THE CURRENT CITY ORDINANCE CODE, CITY STANDARD SPECIFICATIONS, AND STANDARD PLANS. ALL PEDESTRIAN IMPROVEMENTS SHALL CONFORM WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS AND THE AMERICANS WITH DISABILITIES ACT. THE IMPROVEMENTS ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE PUBLIC WORKS AND ENGINEERING DIVISION CONSTRUCTION INSPECTION. CONTACT PUBLIC WORKS AND ENGINEERING DIVISION CONSTRUCTION INSPECTION AT (925) 625-7000 AT LEAST 2 WORKING DAYS PRIOR TO THE START OF ANY WORK TO ARRANGE FOR INSPECTION.
- 77. ALL UTILITY DISTRIBUTION SERVICES SHALL BE PLACED UNDERGROUND.
- 78. MASONRY WALLS SHOWN ARE FOR REFERENCE ONLY AND SUBJECT TO BUILDING DEPARTMENT APPROVAL AND PERMIT.
- 79. WATER TESTING IS REQUIRED FOR ALL CURB GRADES LESS THAN ONE PERCENT.
- 80. ALL ASPHALT CONCRETE PAVING OF PUBLIC ROADS IS SUBJECT TO AIR PERMEABILITY TESTS. BASED ON THESE TESTS, ADDITIONAL PAVEMENT TREATMENT MAY BE NECESSARY.
- 81. TEMPORARY SILT AND DRAINAGE CONTROL FACILITIES SHALL BE INSTALLED TO CONTROL AND CONTAIN EROSION-CAUSED SILT DEPOSITS AND TO PROVIDE FOR THE SAFE DISCHARGE OF STORM WATERS INTO EXISTING STORM WATER FACILITIES. DESIGN OF THESE FACILITIES MUST BE APPROVED BY THE CITY ENGINEER AND IN PLACE PRIOR TO THE START OF GRADING.
- 82. ALL TRAFFIC STRIPING AND MARKING SHALL BE THERMOPLASTIC UNLESS THE PLANS DESIGNATE THE USE OF "TRAFFIC PAINT."
- 83. ALL RELATIVE COMPACTION TESTS OF SUB-GRADE SOILS, AGGREGATE SUB-BASE AND BASE COURSE MATERIALS WILL BE SUBJECT TO THE FOLLOWING:
 - ANY SCHEDULED RELATIVE COMPACTION TEST THAT IS NOT READY FOR TESTING WITHIN 15 MINUTES OF ARRIVAL OF THE MATERIALS TESTING PERSONNEL SHALL BE REQUIRED TO BE RESCHEDULED. A FEE WILL BE CHARGED FOR ALL RESCHEDULING.
 - SHOULD ANY RELATIVE COMPACTION TEST FAIL AND IT CANNOT BE RETESTED WITHIN A 15 MINUTE TIME PERIOD FROM THE TIME ALL IN-PLACE MATERIAL HAS BEEN TESTED FOR THAT DAY, A RETEST SHALL BE REQUIRED. A FEE WILL BE CHARGED FOR RETESTING.
- 84. FEES FOR RESCHEDULING AND RETESTING WILL BE AT CURRENT RATE AND ESTABLISHED BY THE CITY.
- 85. ANY MATERIAL IMPORTED FOR THE CONSTRUCTION OF EMBANKMENTS OR AS BACKFILL FOR STRUCTURES, CULVERTS, AND OTHER FACILITIES SHALL MEET THE FOLLOWING REQUIREMENTS:

| | |
|--------------------------|--------------------|
| PH* | >5.5 (>7.3**) |
| WATER SOLUBLE SULFATE*** | <0.2% |
| RESISTIVITY (R)* | >3000 OHM PER CM** |

* PER CALIFORNIA TEST 532 & 643
** FOR BACKFILL AROUND METAL PIPE/CONDUIT
*** REPORTED AS S04

- 86. CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE SANITARY FACILITIES AT THE SITE DURING ALL PHASES OF CONSTRUCTION.
- 87. ALL CUT, FILL, AND TRENCH BACKFILL MUST BE TESTED UNDER THE SUPERVISION OF A LICENSED SOILS ENGINEER WHO WILL PROVIDE CERTIFICATION THAT THE WORK CONFORMS TO THE REQUIREMENTS OF CITY AND STATE CODES.
- 88. CONTRACTOR SHALL MAINTAIN ALL SITES OF WORK DURING CONSTRUCTION SO AS TO KEEP THEM REASONABLY NEAT AND FREE OF TRASH, RUBBISH, AND OTHER DEBRIS. UPON COMPLETION OF WORK, CONTRACTOR SHALL REMOVE FROM SITES FOR WORK, AND FROM PUBLIC OR PRIVATE PROPERTY, ALL TEMPORARY STRUCTURES, RUBBISH AND WASTE MATERIAL, AND SHALL PROPERLY DISPOSE OF EXCAVATED MATERIALS BEYOND THAT NEEDED TO BRING THE SITE TO THE ELEVATIONS SHOWN.
- 89. CONTRACTOR SHALL PROPERLY COORDINATE HIS WORK WITH WORK UNDER OTHER CONTRACTS THAT MAY BE UNDERWAY CONCURRENTLY WITH THIS PROJECT.
- 90. CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS, SURROUNDING LANDSCAPE, AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING CURBS, GUTTERS, SIDEWALKS, GRADING ETC., AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPE, LOW SPOTS, OR HAZARDOUS CONDITIONS.
- 91. THE CENTERLINE OF CURB INLET CATCH BASINS IS 0.67 FEET FROM THE FACE-OF-CURB.
- 92. CONTRACTOR SHALL INSTALL FIRE HYDRANTS AT THE LOCATIONS DETERMINED BY THE FIRE DEPARTMENT AND THE CITY ENGINEER AND AS SHOWN ON THE PLANS. HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH CU601.

DIABLO WATER DISTRICT NOTES:

- 1. WATER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE DIABLO WATER DISTRICT (DISTRICT). CONTRACTOR TO HAVE THE JUNE 2019 STANDARD SPECIFICATIONS AND DRAWINGS BOOK ON SITE AT ALL TIMES. THIS CAN BE SEEN ONLINE AT **WWW.DIABLOWATER.ORG** UNDER "CONSTRUCTION SERVICES". ANY AND ALL UPDATES TO THE DISTRICT'S SPECIFICATIONS WILL BE AVAILABLE ON THE DISTRICT'S WEBSITE. HARD COPIES OF THE STANDARDS AND SPECIFICATIONS ARE AVAILABLE AT THE DISTRICT'S OFFICE AT 87 CAROL LANE, OAKLEY, CA, PHONE: (925) 625-3798, FOR A COST OF \$50.
- 2. ANYONE WHO TAKES WATER FROM THE DISTRICT'S WATER SYSTEM WITHOUT PROPER METERING SHALL BE SUBJECT TO THE DISTRICT'S TAMPERING CHARGE, FEES AND COSTS AS PER THE DISTRICT'S REGULATIONS AND MAY BE SUBJECT TO CRIMINAL PROSECUTION PURSUANT TO CALIFORNIA PENAL CODE SECTION 498 OR OTHER APPLICABLE STATUTES.
- 3. THE DEVELOPER/CONTRACTOR SHALL SUBMIT TO THE DISTRICT THE SOIL CORROSION ANALYSIS AND DESIGN AS REQUIRED BY THE DISTRICT'S SPECIFICATIONS AFTER ROUGH GRADING OF THE SITE HAS BEEN COMPLETED. NO WORK ON THE DISTRICT'S WATER SYSTEM SHALL COMMENCE UNTIL THE DISTRICT HAS GIVEN ITS APPROVAL OF THE SOIL ANALYSIS AND CORROSION PROTECTION DESIGN.
- 4. ALL WATER MAINS SHALL BE AWWA C900 CLASS 150 PVC UNLESS OTHERWISE NOTED ON THESE PLANS. ALL PLASTIC PVC WATER MAINS AND SERVICES SHALL INCLUDE A 12-GAUGE, SINGLE STRAND, COPPER WIRE TAPED TO THE TOP OF THE PIPE. TOP OF CURB SHALL BE STAMPED WITH A "W" TO MARK THE LOCATION OF THE WATER LATERAL.
- 5. WATER LINES SHALL HAVE A MINIMUM COVER OF 3 FEET, AND NOT MORE THAN 4.5 FEET (UNLESS PRE-APPROVED BY THE DISTRICT) FROM FINISH ROADWAY AND SHALL HAVE CONTINUOUS WARNING TAPE INSTALLED 18" ABOVE ALL WATER MAINS, SERVICE LINES, HYDRANT LINES AND BLOW-OFF LINES, UNLESS OTHERWISE NOTED. WARNING TAPE SHALL BE BLUE, 6" WIDE, PLASTIC PRINTED CONTINUOUSLY WITH THE WORDS "CAUTION BURIED WATER LINE BELOW". (REF: SEC. 02620-2.03B)
- 6. BASIC SEPARATION REQUIREMENTS FOR WATER MAINS AND SANITARY SEWERS: NEW WATER MAINS AND NEW SUPPLY LINES SHALL NOT BE INSTALLED IN THE SAME TRENCH AS, AND SHALL BE INSTALLED FROM OUTSIDE TO OUTSIDE OF PIPE AT LEAST 10- FEET HORIZONTALLY FROM AND ONE FOOT VERTICALLY ABOVE, ANY PARALLEL PIPELINE CONVEYING UNTREATED SEWAGE, DISINFECTED SECONDARY RECYCLED WATER, AND HAZARDOUS FLUIDS.
- 7. BASIC SEPARATION REQUIREMENTS FOR WATER MAINS AND STORM DRAINAGE AND RECYCLED WATER PIPELINES: NEW WATER MAINS AND NEW SUPPLY LINES SHALL BE INSTALLED FROM OUTSIDE TO OUTSIDE OF PIPE AT LEAST 4- FEET HORIZONTALLY FROM, AND ONE FOOT VERTICALLY ABOVE, ANY PARALLEL PIPELINE CONVEYING STORM DRAINAGE AND DISINFECTED TERTIARY RECYCLED WATER.
- 8. IF CROSSING A SANITARY SEWER OR STORM DRAIN PIPELINE OR RECYCLED WATER PIPELINE, A NEW WATER MAIN SHALL BE CONSTRUCTED NO LESS THAN 45-DEGREES TO AND AT LEAST ONE FOOT ABOVE THAT PIPELINE. NO CONNECTION JOINTS SHALL BE MADE IN THE WATER MAIN WITHIN EIGHT HORIZONTAL FEET OF THE PIPELINE BEING CROSSED.
- 9. SPECIAL CONSTRUCTION REQUIREMENTS FOR WATER MAINS: WHERE A WATER MAIN IS TO BE LOCATED PARALLEL TO OR CROSS A SANITARY SEWER OR STORM DRAIN PIPELINE OR RECYCLED WATER PIPELINE WITH LESS THAN THE REQUIRED SEPARATION, THE INSTALLATION AND MATERIALS SHALL CONFORM TO THE STATE OF CALIFORNIA, DIVISION OF DRINKING WATER, CALIFORNIA REGULATIONS RELATED TO DRINKING WATER, AND SHALL BE SUBJECT TO THE APPROVAL OF THE DIVISION OF DRINKING WATER.
- 10. MAINTAIN 5.0' MINIMUM SEPARATION BETWEEN WATER SERVICES AND SANITARY SEWER LATERALS.
- 11. PUBLIC FIRE HYDRANTS SHALL HAVE 1-4 1/2" & 2-2 1/2" OUTLETS, AND EACH HYDRANT SHALL BE ISOLATED FROM THE MAIN LINE BY A 6" GATE VALVE AND SHALL RECEIVE TWO (2) COATS OF RUST-OLEUM V7400 SAFETY YELLOW. VALVE CAN LIDS FOR 6" FIRE HYDRANT SHUT-OFF VALVE SHALL BE PAINTED WITH KRYLON INTERIOR/EXTERIOR FLAT WHITE - BLANCO MATE #1502 AS PER FIRE DEPARTMENT REQUIREMENTS.
- 12. USE MUELLER STREAMLINE PVC COATED COPPER FOR SERVICE LINE AND ARV PIPING.
- 13. CONTRACTOR SHALL INSTALL CURB STOPS AND METER BOXES ACCEPTABLE TO DIABLO WATER DISTRICT AT EACH LOT IMMEDIATELY PRIOR TO JUMPER BEING REMOVED. AT THE EXPENSE OF THE DEVELOPER/CONTRACTOR, PAD LOCKS WILL BE INSTALLED BY DIABLO WATER DISTRICT AT EACH ANGLE STOP.
- 14. USE 304 STAINLESS STEEL NUTS AND BOLTS FOR ALL BOLT-UPS AS WELL AS GATE VALVE BONNETS AND STUFFING BOX NUTS AND BOLTS. BOLTS SHALL BE MARKED "F-593C" OR "F-593D" ONLY. HEADS WITH TWO SLASH MARKS ARE NOT TO BE USED.
- 15. THE CONTRACTOR SHALL MAINTAIN WATER SERVICE TO ALL RESIDENCES AT ALL TIMES DURING CONSTRUCTION.
- 16. NO WORK SHALL COMMENCE UNTIL ALL SUBMITTALS HAVE BEEN APPROVED.

- 17. THRUST BLOCKS (OR OTHER PIPE JOINT RESTRAINTS) SHALL BE PROVIDED AT ALL ANGLE POINTS ON THE WATER SYSTEM. THRUST BLOCKS FOR TREATED WATER PIPELINES (W) SHALL BE PER THE DWD DETAILS.
- 18. WORK HOURS SHALL BE MONDAY THROUGH FRIDAY 8:00 A.M. TO 4:30 P.M. EXCEPT FOR DISTRICT OBSERVED HOLIDAYS. ANY REQUESTS FOR WORKING OUTSIDE THESE TIMES MUST BE SUBMITTED TO THE DISTRICT INSPECTOR AT LEAST 48 HOURS IN ADVANCE. IT IS RECOMMENDED THAT REQUESTS FOR SATURDAY WORK BE MADE BY THE CLOSE OF BUSINESS THE WEDNESDAY PRIOR. REQUESTS FOR SATURDAY WORK MAY BE APPROVED OR DENIED DEPENDING ON INSPECTOR AVAILABILITY. A REQUEST FOR WORK DURING A DISTRICT HOLIDAY SHALL NOT BE PERMITTED.
- 19. ALL JOINT TRENCH UTILITIES SHALL CROSS UNDERNEATH ALL WATER FACILITIES. IF THESE CRITERIA CANNOT BE MET, THE DEVELOPER/CONTRACTOR SHALL INSTALL A RED CONCRETE CAP OVER THE JOINT TRENCH FACILITIES.
- 20. ALL BUTTERFLY VALVES (BFVS) SHALL BE EPOXY LINED AND COATED. LINING SHALL BE CERTIFIED BY THE FACTORY TO BE HOLIDAY FREE.
- 21. ALL HOT TAPS SHALL BE PERFORMED BY TAP MASTER, INC. OF CONCORD, CALIFORNIA, PHONE: 925-439-7975. TAPPING SLEEVE SHALL BE STAINLESS STEEL TYPE JCM 432, NO EQUAL.
- 22. NO TREES SHALL BE PLANTED, OR LIGHT/UTILITY POLES INSTALLED WITHIN 10' OF ANY WATER MAINS, FIRE SERVICES, OR FIRE HYDRANT LATERALS. MEASUREMENT SHALL BE TAKEN AS THE CLEAR DISTANCE BETWEEN THE ROOT BALL AND WATER MAIN.
- 23. ALL LOCATOR WIRES SHALL BE TESTED, AND TEST RESULTS SHALL BE INCLUDED IN THE CATHODIC PROTECTION TEST REPORT.
- 24. ALL WATER METERS SHALL BE PROVIDED WITH A 520M-FLEXNET MTX UNIT. METER BOXES FOR METERS LESS THAN 1-1/2 INCH IN SIZE SHALL HAVE CHRISTY B12P001-F (FLEXNET) LIDS. ALL METER BOX LIDS SHALL HAVE DRILLED HOLES FOR FLEXNET 520M UNITS.
- 25. WATER METERS 5/8" IN SIZE SHALL BE SENSUS 5/8" X 3/4" SR11 LOW LEAD, 1 CUBIC FOOT, LABELED 5/8" X 3/4". WATER METERS 1" IN SIZE SHALL BE SENSUS 1" SR11 LOW LEAD, 1 CUBIC FOOT. FLOW METERS 1-1/2" THROUGH 4" IN SIZE SHALL BE SENSUS OMNI C2. COMPOUND METERS (CUBIC FEET).
- 26. JDH CORROSION CONSULTANTS, INC., 1100 WILLOW PASS COURT, CONCORD, CA, 925-927-6630, SHALL CONDUCT ALL FINAL CATHODIC PROTECTION TEST REPORTS AT THE EXPENSE OF THE DEVELOPER/CONTRACTOR.
- 27. INSTALL A BALL SHUT-OFF VALVE AND BOX ON CUSTOMER'S SIDE AFTER BACKFLOW DEVICE FOR NEW CONSTRUCTION AS REQUIRED BY THE CITY OF OAKLEY'S SPECIFICATIONS.
- 28. THE DEVELOPER/CONTRACTOR SHALL PROVIDE THE GLOBAL POSITIONING SYSTEM (GPS) COORDINATES OF ALL BURIED FITTINGS (EXCLUDING SADDLES AND CORPORATION STOPS) AND ALL ABOVE GROUND FACILITIES AS DETERMINED BY THE DISTRICT IN A SHAPFILE DATA FORMAT AS DEFINED BY ESRI. GPS COORDINATES OF EXISTING WATER FACILITIES THAT ARE EXPOSED DURING ANY CONSTRUCTION ACTIVITY SHALL ALSO BE PROVIDED. ALL GPS COORDINATES SHALL BE TO WITHIN AN ACCURACY OF TEN (10) CENTIMETERS AND SHALL INCLUDE LATITUDE, LONGITUDE AND ELEVATION.
- 29. THE CONTRACTOR SHALL RE-CHLORINATE AND RETEST ANY LINES THAT DO NOT PASS THE FIRST OR SUBSEQUENT ROUND OF BACTERIOLOGICAL TESTING OR AS DIRECTED BY DIABLO WATER DISTRICT.
- 30. ALL MATERIALS AND PRODUCTS SHALL BE NSF 61 CERTIFIED THAT ARE IN CONTACT WITH AND POTENTIALLY IN CONTACT WITH POTABLE WATER, INCLUDING SURFACES WITHIN THE AIR SPACE OF THE WATER.
- 31. CONTRACTORS USING THEIR WATER METER FOR THE TEMPORARY JUMPER, MUST HAVE YEARLY CALIBRATION TESTS PERFORMED AND SHALL SUBMIT THE REPORT TO THE DISTRICT.

CONTACT INFORMATION FOR APPLICABLE AGENCIES:

- 1. CONTRA COSTA COUNTY FLOOD CONTROL
255 GLACIER DRIVE
MARTINEZ, CA 94553-4825
CONTACTS: TIM JENSEN
PHONE: (925) 313-2000
- 2. DIABLO WATER DISTRICT
87 CAROL LANE
P.O. BOX 127
OAKLEY, CA 94561-0127
PHONE: (925) 625-3798
- 3. IRONHOUSE SANITARY DISTRICT
450 WALNUT MEADOWS DRIVE
P.O. BOX 1105
OAKLEY, CA 94561
PHONE: (925) 625-2279
- 4. CPN PIPELINE CORP
4160 DUBLIN BLVD., SUITE 100
DUBLIN, CA 94568
CONTACT: LYLE FEDJE
PHONE: (925) 998-2358
- 5. PACIFIC GAS & ELECTRIC
3400 CROW CANYON ROAD
SAN RAMON, CA 94583
CONTACT: MARY RUIZ
PHONE: (925) 779-7792



IRONHOUSE SANITARY DISTRICT SEWER NOTES:

- 1. ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE IRONHOUSE SANITARY DISTRICT (ISD) AND BE SUBJECT TO INSPECTION BY AN INSPECTOR REPRESENTING ISD. COPIES OF THE STANDARD PLANS AND SPECIFICATIONS ARE AVAILABLE ON OUR WEBSITE AT IRONHOUSE.SANITARYDISTRICT.COM
- 2. ALL GRAVITY SANITARY SEWER PIPE SHALL BE POLYVINYL CHLORIDE PIPE CONFORMING TO ASTM D 3034, SDR 26, UNLESS OTHERWISE NOTED. ALL SANITARY SEWER FORCEMAINS SHALL CONFORM TO AWWA C900, SDR 26, CLASS 200 (DR14). CONTRACTOR SHALL OBTAIN APPROVAL FROM ISD FOR SANITARY SEWER PIPE OR FORCEMAIN THAT DEVIATES FROM THIS CRITERIA. REFER TO THE STANDARD PLANS AND SPECIFICATIONS DRAWING-19 FOR ADDITIONAL REQUIREMENTS.
- 3. GRAVITY SANITARY SEWERS SHALL BE LAID AT THE FOLLOWING MINIMUM SLOPES:

| SEWER SIZE (INCHES) | MINIMUM SLOPE (FEET/FT) |
|---------------------|-------------------------|
| 8 | 0.0035 |
| 10 | 0.0028 |
| 12 | 0.0017 |
| 15 | 0.0015 |

- 4. MANHOLES SHALL BE PLACED AT INTERVALS NOT GREATER THAN THREE-HUNDRED (300) FEET.
- 5. ALL PIPES DELIVERED TO JOB SITE ARE TO BE MARKED AS TO PIPE TYPE, STRENGTH, CLASS AND BRAND NAME.
- 6. FINAL TESTS OF THE SANITARY SEWER ARE TO BE PERFORMED AFTER 100% ROCK IS PLACED AND COMPACTION TEST RESULTS ARE SATISFACTORY TO ISD, AS PER THE STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION, CENTRAL CONTRA COSTA SANITARY DISTRICT.
- 7. PLASTIC PIPE SHALL BE MANDRELED WITH RIGID MANDREL WITH EFFECTIVE CIRCULAR CROSS SECTION HAVING A DIAMETER OF AT LEAST 95% OF THE SPECIFIED AVERAGE INSIDE DIAMETER OF PIPE.
- 8. ALL SEWER LINES SHALL BE AIR TESTED AS PER THE STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION, CENTRAL CONTRA COSTA SANITARY DISTRICT SECTION 15.02730, CLEANING AND TESTING.
- 9. ALL SEWER LINES SHALL BE BALL FLUSHED AS PER THE STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION, CENTRAL CONTRA COSTA SANITARY DISTRICT SECTION 15.02730, CLEANING AND TESTING.
- 10. ALL SEWER LINES 6-INCHES AND LARGER WILL BE TELEVISED BY AN ISD APPROVED COMPANY. THE TELEVISIONING CONTRACTOR SHALL BE APPROVED BY THE DISTRICT AT LEAST TWO WEEKS IN ADVANCE OF THE WORK. AN ISD INSPECTOR MUST BE PRESENT DURING THE TELEVISIONING PROCESS.
- 11. ALL SEWER MANHOLES SHALL BE VACUUM TESTED AS PER THE STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION, CENTRAL CONTRA COSTA SANITARY DISTRICT.
- 12. DEVELOPER SHALL FURNISH COMPACTION TEST OF SEWER TRENCH AT 40 FOOT INTERVALS BY A QUALIFIED LAB PER CENTRAL CONTRA COSTA SANITARY DISTRICT SPECIFICATIONS.
- 13. ALL PLASTIC SANITARY SEWER LINES AND LATERALS SHALL HAVE ROCK MATERIAL BEDDING AND SHADING WITHIN THE RIGHT-OF-WAY IN ACCORDANCE WITH CENTRAL CONTRA COSTA SANITARY DISTRICT STANDARD DRAWINGS.
- 14. ALL 6-INCH LATERALS MUST BE TIED INTO A MANHOLE. NO DIRECT CONNECTION OF A 6-INCH LATERAL INTO A SEWER MAIN IS ALLOWED.
- 15. MINIMUM SLOPES FOR LATERALS ARE 4-INCH AT 2% AND 6-INCH AT 1%.
- 16. ISD SHALL RECEIVE ONE HARD COPY AND ONE CD OF AS-BUILTS IN AUTOCAD AND PDF FORMAT. ACTUAL LOCATIONS OF HOUSE LATERALS ARE TO BE SHOWN ON "AS-BUILTS" AS ARE ALL DEVIATIONS FROM CONSTRUCTION PRINT.
- 17. EACH SEWER SERVICE LATERAL SHALL BE MARKED WITH A 2-INCH HIGH "S" INSCRIBED ON THE CURB DIRECTLY ABOVE THE SERVICE. LATERAL TO BE MARKED WITH A 2" X 4" STAKE PAINTED GREEN AND LEFT IN PLACE THROUGH THE FINAL YARD GRADE.
- 18. MINIMUM VERTICAL CLEARANCE BETWEEN SEWER MAIN AND ALL OTHER UTILITY CROSSINGS SHALL BE ONE (1) FOOT. IF LESS THAN ONE (1) FOOT THEN A SIX (6) INCH CONCRETE CAP SHALL BE PLACED OVER THE SEWER PIPE AS DIRECTED IN THE FIELD BY THE ISD INSPECTOR.
- 19. CONTRACTORS ARE REQUIRED TO FOLLOW ALL LOCAL, STATE, AND FEDERAL CONSTRUCTION REGULATIONS. BEFORE ENTERING ISD'S CONFINED SPACES CONTRACTORS ARE REQUIRED TO PROVIDE ISD THE FOLLOWING: (1) CONTRACTORS CONFINED SPACE PROGRAM, (2) CONFINED SPACE PERMIT FORM, (3) PERSONNEL TRAINING RECORDS OF CONFINED SPACE SUPERVISOR, ATTENDANT, ENTRANT, AND RESCUE PERSON, AND (4) RESPIRATOR FIT TEST RECORD OF RESCUE PERSON. CONTRACTORS WILL NOT RELY ON LOCAL FIRE DEPARTMENT PERSONNEL TO PROVIDE CONFINED SPACE RESCUES.



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ROSEVILLE (916) 788-4456
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CYPRESS ROAD - PHASE 3 SUBDIVISION 9033

GENERAL NOTES (CONTINUED)

CITY OF OAKLEY CALIFORNIA

| NO. | REVISIONS | BY | APP | DATE |
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| DESIGNED UNDER THE DIRECTION OF: | DATE |
|------------------------------------|------------------|
| | 07/07/2022 |
| ANGELO OBERTELLO P.E. NO. 64345 | DATE |
| DESIGN: KEJ | DATE: JULY, 2022 |
| DRAWN: KEJ | DATE: JULY, 2022 |
| CHECKED: AJO | DATE: JULY, 2022 |



SHEET 2 OF 10 SHEETS

LEGEND

| EXISTING | PROPOSED | DESCRIPTION | EXISTING | PROPOSED | DESCRIPTION |
|----------|----------|---------------------------|----------|----------|-----------------------------|
| | | PROPERTY LINE | | | AIR RELEASE VALVE |
| | | CURB, GUTTER AND SIDEWALK | | | FIRE HYDRANT |
| | | CENTERLINE | | | BLOW OFF |
| | | SANITARY SEWER PIPE | | | REDUCER |
| | | SANITARY SEWER MANHOLE | | | ELECTROLIER |
| | | STORM DRAIN PIPE | | | GAS MAIN |
| | | STORM DRAIN MANHOLE | | | STREET SIGN |
| | | CURB INLET | | | MONUMENT |
| | | FIELD INLET | | | TREE AND TREE TO BE REMOVED |
| | | WATER MAIN | | | CONTOURS |
| | | GATE VALVE | | | SPOT ELEVATIONS |
| | | BUTTERFLY VALVE | | | SLOPE EMBANKMENT |
| | | BLIND FLANGE | | | MASONRY WALL |

ABBREVIATIONS:

| | | | | | |
|-----|-----------------------------|------|---------------------------------------|------|--------------------------|
| AB | AGGREGATE BASE | FI | FIELD INLET | R/W | RIGHT OF WAY |
| AC | ASPHALT CONCRETE | GB | GRADE BREAK | S | SLOPE |
| ACD | AC DIKE | GR | GROUND | SD | STORM DRAIN |
| ARV | AIR RELIEF VALVE | HP | HIGH POINT | SS | STORM DRAIN MANHOLE |
| BC | BEGIN CURVE | GV | GATE VALVE | SS | SANITARY SEWER |
| BM | BENCHMARK | INV | INVERT | SSMH | SANITARY SEWER MANHOLE |
| BO | BLOW-OFF VALVE | LF | LINEAR FEET | ST | STREET |
| BY | BUTTERFLY VALVE | LP | LOW POINT | STA | STATION |
| BVC | BEGINNING OF VERTICAL CURVE | LS | LANDSCAPING | STD | STANDARD |
| C/L | CENTER LINE | LT | LANDSCAPING | S/W | SIDEWALK |
| CB | CATCH BASIN | MAX | MAXIMUM | TBO | TEMPORARY BLOW-OFF VALVE |
| CR | RETURN | MH | MANHOLE | TC | TOP OF BEVELED CURB |
| C&G | CURB & GUTTER | MIN | MINIMUM | TVC | TOP OF VERTICAL CURB |
| D/W | DRIVEWAY | PVIC | POINT OF INTERSECTION, VERTICAL CURVE | TMC | TOP OF MEDIAN CURB |
| EC | END OF CURVE | PL | PROPERTY LINE | TEMP | TEMPORARY |
| EP | EDGE OF PAVEMENT | PCC | POINT OF CONCENTRIC CURVATURE | TYP | TYPICAL |
| ET | EDGE OF TRAVEL | PRC | POINT OF REVERSE CURVE | VC | VERTICAL CURVE |
| EVC | END OF VERTICAL CURVE | PUE | PUBLIC UTILITY EASEMENT | VERT | VERTICAL |
| EX | EXISTING | PVC | POLYVINYL CHLORIDE | W | WATER LINE |
| F/C | FACE OF CURB | R | RADIUS | W | WITH |
| FG | FINISHED GRADE | RIM | RIM ELEVATION | WS | WATER SERVICE |
| FH | FIRE HYDRANT | RT | RIGHT | | |

STORM DRAIN STRUCTURE SCHEDULE (CITY OF OAKLEY)

| ITEM | QUANTITY | DESCRIPTION |
|---------------------|------------------|--|
| 18" PIPE | 45 LF | HDPE |
| 18" PIPE | 4 LF | CLASS V RCP |
| 48" PIPE | 144 LF | CLASS V RCP |
| CATCH BASIN | CB 1 (1 TOTAL) | CONTRA COSTA COUNTY TYPE "D" INLET (BEHIND CURB) PER COUNTY DETAIL CD23* |
| STORM DRAIN MANHOLE | SDMH 1 (1 TOTAL) | CONTRA COSTA COUNTY TYPE III MANHOLE BASE PER COUNTY DETAIL CD32 |

* INSTALL PERMANENT METAL MARKERS AT STORMDRAIN INLETS ("NO DUMPING, DRAINS TO DELTA") PER CITY OF OAKLEY DETAIL SD-12 (ALMETEK ITEM NUMBER: STD-9599-SSP)

SANITARY SEWER SCHEDULE (IRONHOUSE SANITARY DISTRICT)

| ITEM | QUANTITY | DESCRIPTION |
|----------|----------|--------------------|
| 14" SSFM | 107 LF | PVC C900 |
| BLOW-OFF | 1 EA | PER DETAIL SHEET 4 |

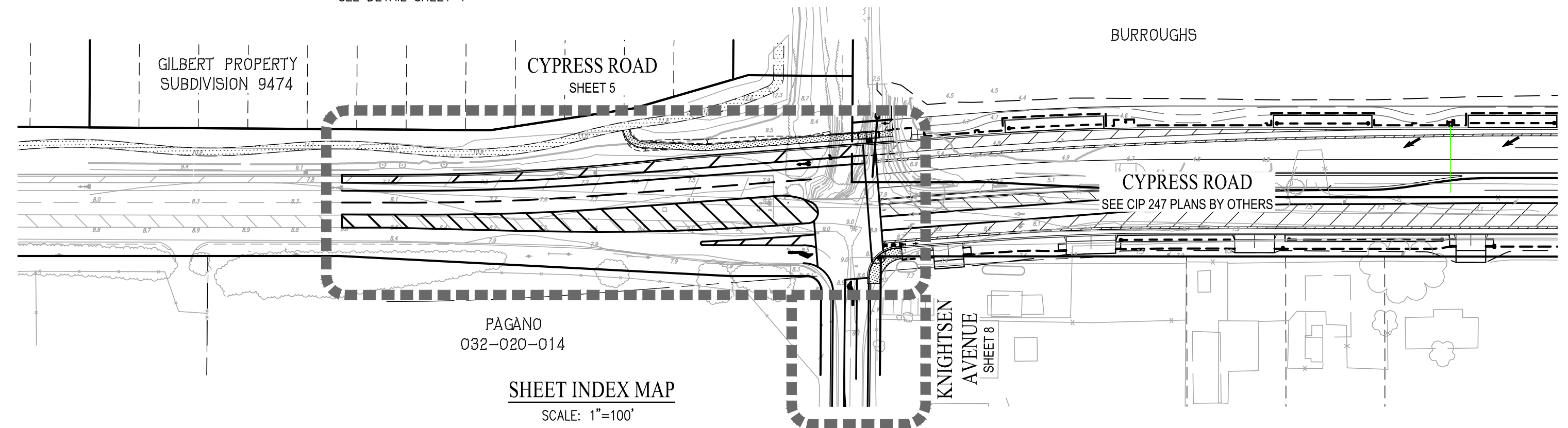
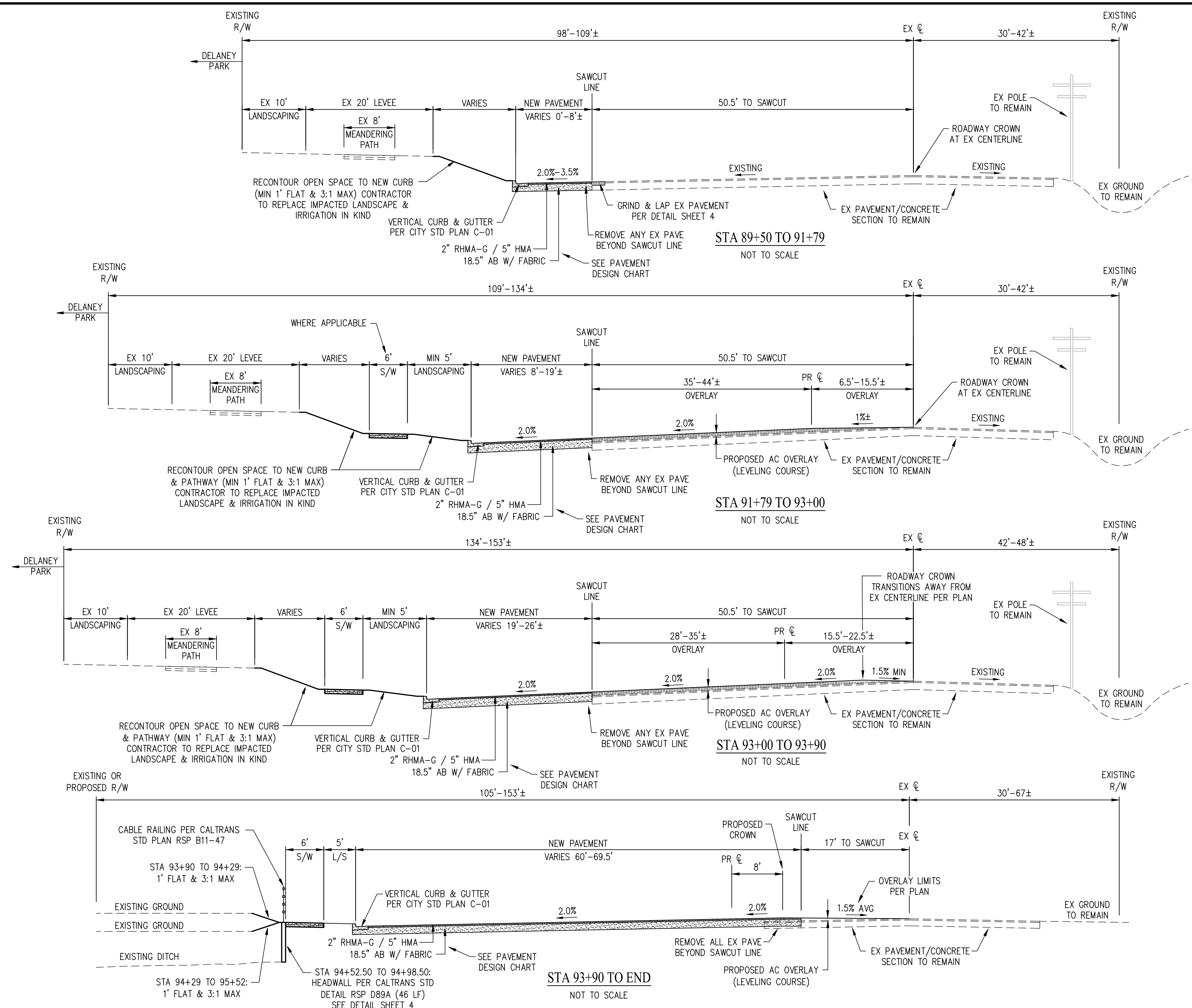
PAVEMENT DESIGN CHART

| STREET | TI | R | RHMA-G | HMA (TYPE A) | CLASS 2 AB + B2 GEOTEXTILE FABRIC |
|-------------------------------|------|---|--------|--------------|-----------------------------------|
| CYPRESS ROAD & KNIGHTSEN AVE. | 10.5 | 5 | 2" | 5" | 18.5" |

NOTE: THE "R" VALUE IS BASED ON AN ESTIMATE OF SOIL CONDITION AT THE SITE. FINAL STREET SECTIONS WILL BE DETERMINED AFTER THE FINAL "R" VALUE OF SUBGRADE IS COMPLETED BY THE SOILS ENGINEER. IF SUBGRADE "R" VALUE IS LESS THAN 10, GEOTEXTILE FABRIC SHALL BE INSTALLED ON SUBGRADE PRIOR TO PLACEMENT OF AB MATERIAL.

NOTES TO CONTRACTOR

- NO GRADING IS ALLOWED ON ADJACENT PROPERTIES UNLESS OTHERWISE NOTED.
- ALL GRADING OPERATIONS TO BE CONSISTENT WITH THE RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL INVESTIGATION.
- SEE JOINT TRENCH PLANS PREPARED BY GIACOLONE DESIGN SERVICES FOR ALL JOINT TRENCH FACILITIES AND STREET LIGHT LOCATIONS.
- SEE LANDSCAPE PLANS PREPARED BY OTHERS FOR ALL LANDSCAPING AND IRRIGATION FACILITIES.
- ALL HANDICAP RAMPS TO BE CONSTRUCTED PER CALTRANS STANDARDS AB8A WITH DETECTABLE WARNING SURFACES.
- FOR ALL CATHODIC PROTECTION PERTAINING TO THIS PROJECT, PLEASE SEE CATHODIC PROTECTION PLANS PREPARED BY JDH CORROSION CONSULTANTS.



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CYPRESS ROAD - PHASE 3
LEGEND, ABBREVIATIONS, PAVEMENT DESIGN CHART, UTILITY SCHEDULE & TYPICAL STREET SECTIONS
CITY OF OAKLEY

SUBDIVISION 9033
CALIFORNIA

| NO. | REVISIONS | BY | APP | DATE |
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DESIGNED UNDER THE DIRECTION OF:

ANGELO OBERTELLO
R.C.E. NO. 64345

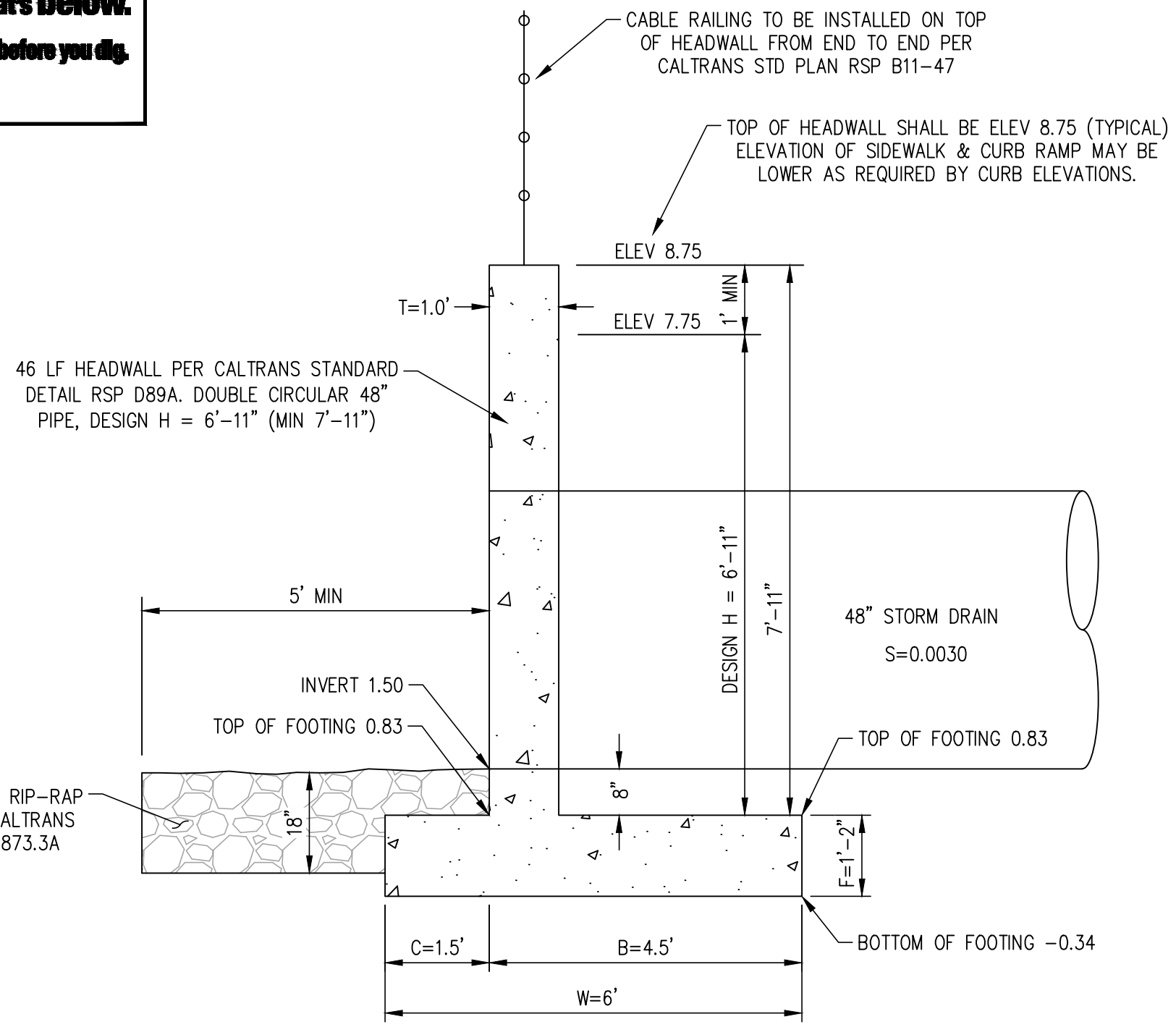
DATE: 07/07/2022

DESIGN: KEJ DATE: JULY, 2022
DRAWN: KEJ DATE: JULY, 2022
CHECKED: AJO DATE: JULY, 2022



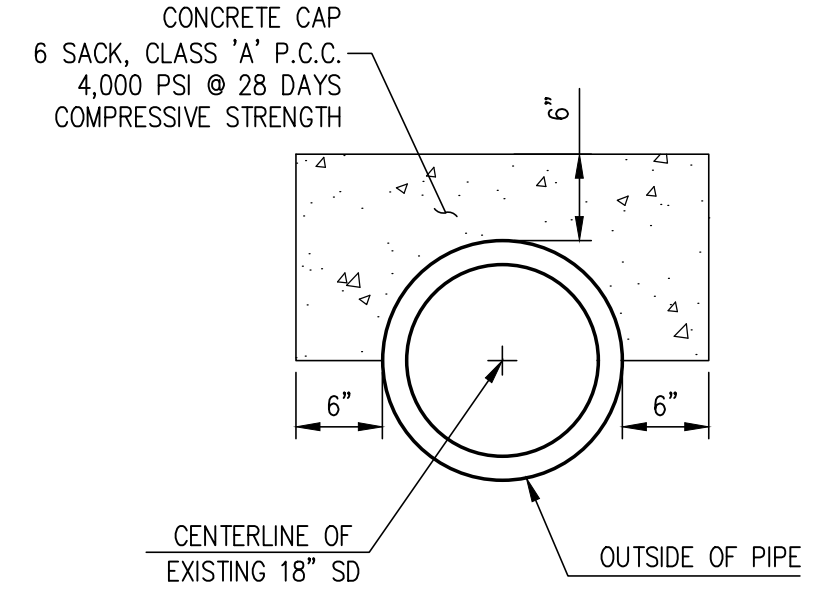
REGISTERED PROFESSIONAL ENGINEER
ANGELO OBERTELLO
64345
CIVIL
STATE OF CALIFORNIA

SHEET **3** OF 10 SHEETS

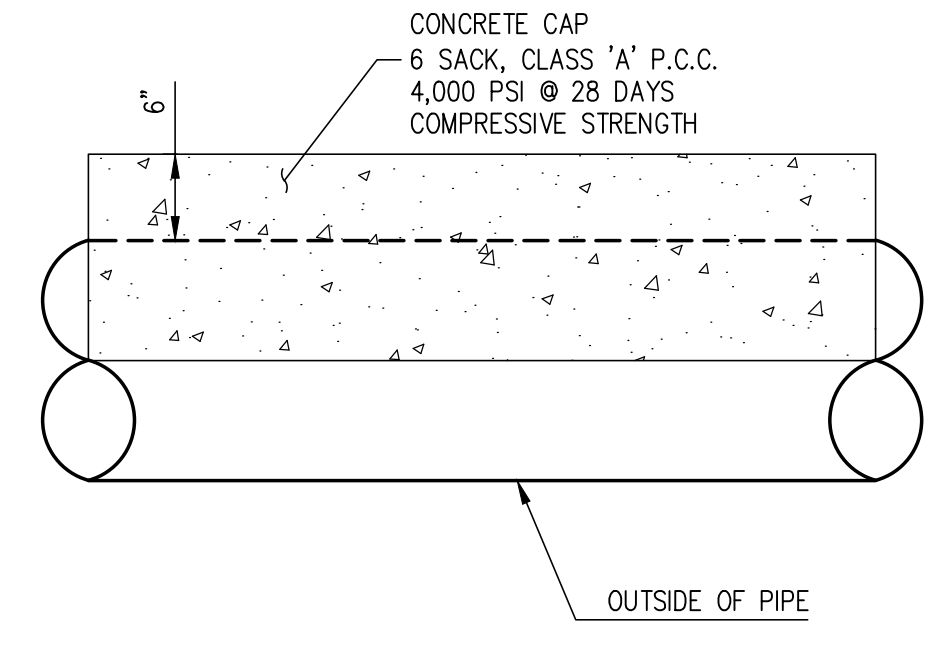


CALTRANS HEADWALL - CROSS SECTION
SCALE: 1" = 5'

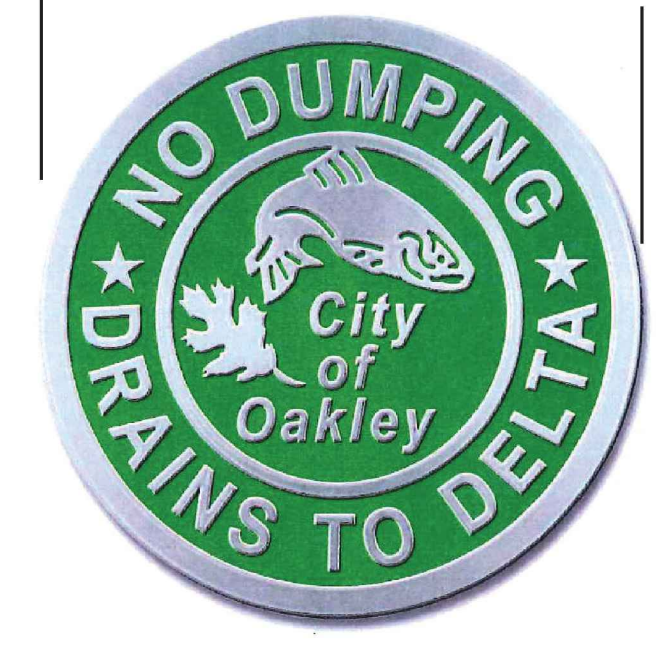
HEADWALL NOTE:
THE HEADWALL DESIGN INFORMATION DEPICTED ON THIS SHEET IS INTENDED FOR GENERAL REFERENCE ONLY. REFER TO CALTRANS STANDARD DETAIL RSP D89A FOR ADDITIONAL FEATURES, NOTES & CONSTRUCTION DETAILS.



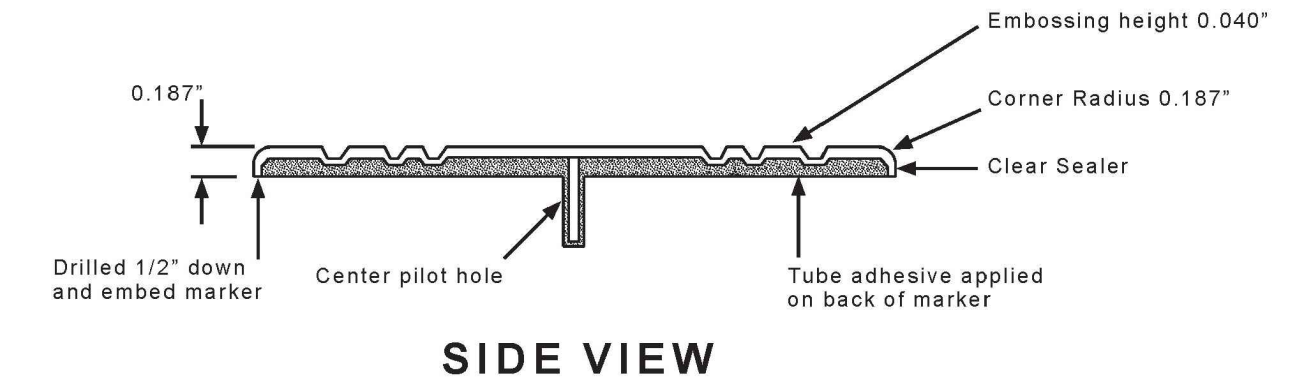
CONCRETE CAP ON EXISTING 18" STORM DRAIN
NOT TO SCALE



SANITARY SEWER FORCE MAIN BLOWOFF/FLUSHING INLET DETAIL
NOT TO SCALE



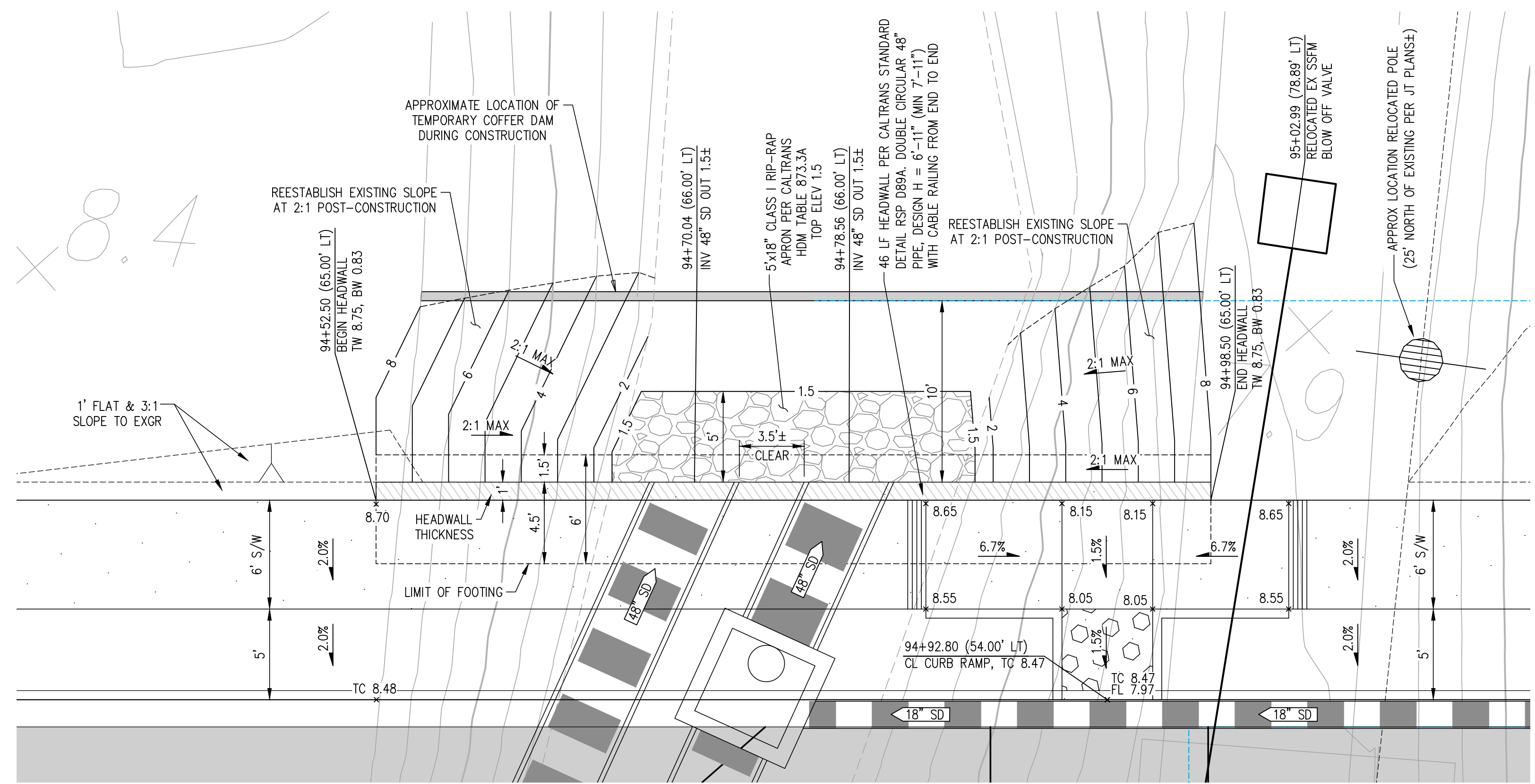
TOP VIEW



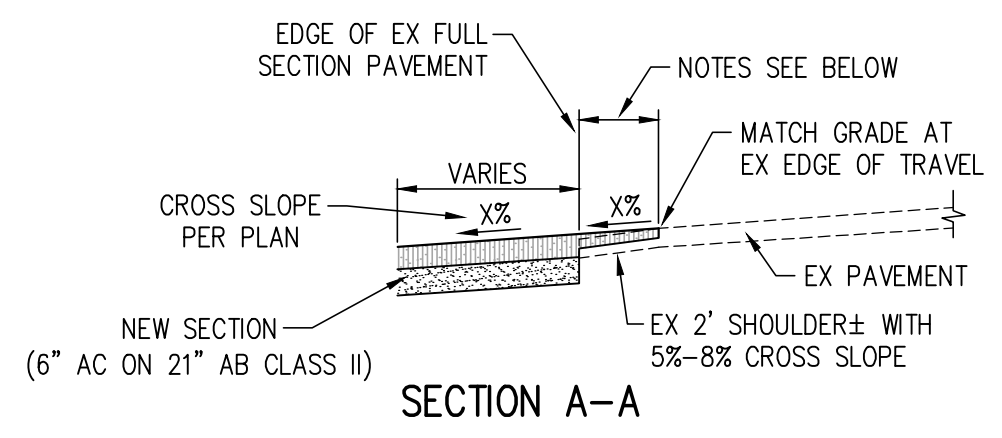
SIDE VIEW

- Notes**
- Available for purchase at the City of Oakley Public Works Department
 - Storm Drain marker by Almetek, Item No. STD-M-9599-SSP.
 - Sub-surface installation with tube adhesive
 - Wire brush surface, blow dust, apply adhesive press down.
- Hardware**
- SIKS_ADH Sikaflex 10, 1 fl. oz. caulk tube (1 Tube per 15 markers)
 - CDB4 Carbide drill bit
 - DCG Dripless caulking gun

| | | | | |
|--|-----------|--|---------------------------|---------------|
| | DATE | | STORM DRAIN MARKER | STD. PLAN NO. |
| | July 2021 | | | SD-12 |



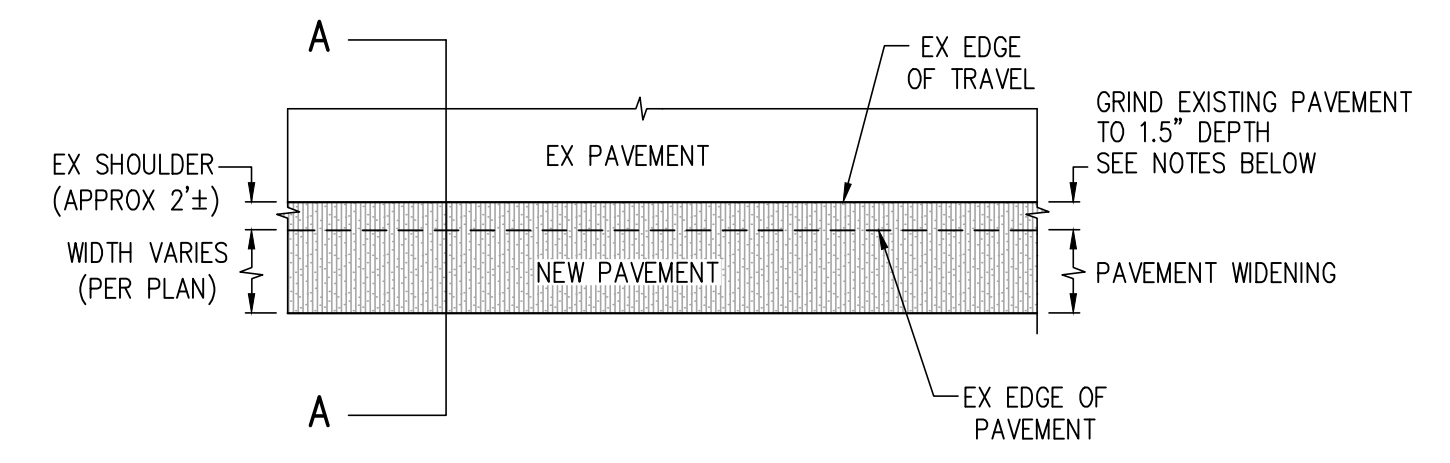
CALTRANS HEADWALL - DETAIL
SCALE: 1" = 5'



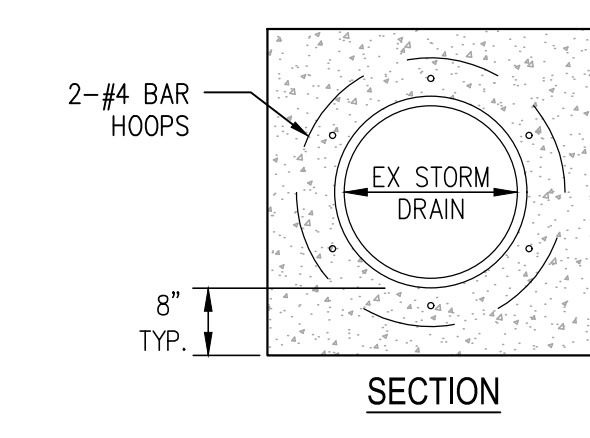
SECTION A-A

NOTES:
GRIND EXISTING 2" SHOULDER± TO 1.5" DEPTH AND RE-PAVE WITH CROSS SLOPE (PER PLAN) TO BEGINNING OF PAVEMENT WIDENING.

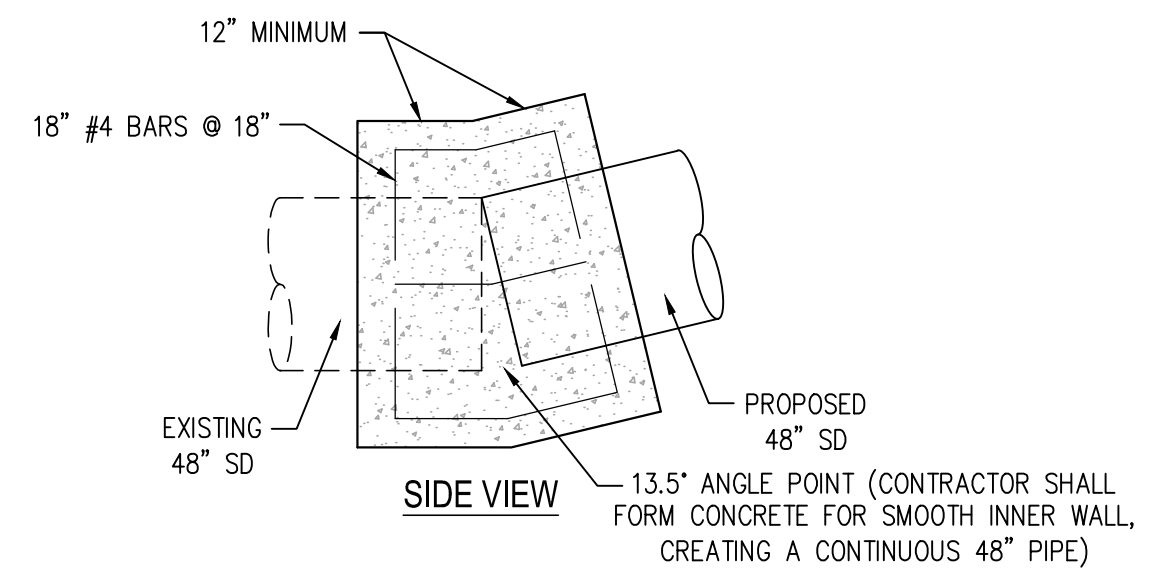
LAPPING DETAIL FOR PAVEMENT WIDENING
NOT TO SCALE



CITY OF OAKLEY - STORM DRAIN MARKERS
NOT TO SCALE



SECTION



SIDE VIEW

48\"/>



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CYPRESS ROAD - PHASE 3 **SUBDIVISION 9033**

MISCELLANEOUS DETAILS

CITY OF OAKLEY **CALIFORNIA**

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DESIGNED UNDER THE DIRECTION OF:

ANGELO OBERTELLO
R.C.E. No. 64345

DATE: 07/07/2022

DESIGN: KEJ DATE: JULY, 2022
DRAWN: KEJ DATE: JULY, 2022
CHECKED: AJO DATE: JULY, 2022



SHEET **4** OF **10** SHEETS



LANDSCAPING NOTES:

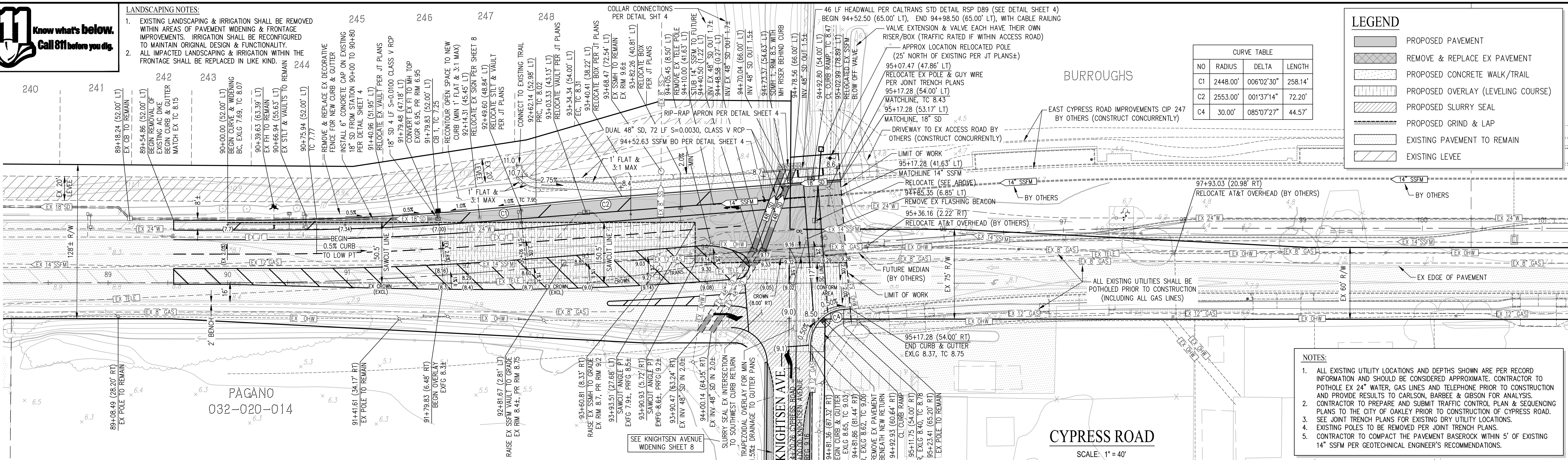
- EXISTING LANDSCAPING & IRRIGATION SHALL BE REMOVED WITHIN AREAS OF PAVEMENT WIDENING & FRONTAGE IMPROVEMENTS. IRRIGATION SHALL BE RECONFIGURED TO MAINTAIN ORIGINAL DESIGN & FUNCTIONALITY. ALL IMPACTED LANDSCAPING & IRRIGATION WITHIN THE FRONTAGE SHALL BE REPLACED IN LIKE KIND.

245

246

247

248



LEGEND

- PROPOSED PAVEMENT
- REMOVE & REPLACE EX PAVEMENT
- PROPOSED CONCRETE WALK/TRAIL
- PROPOSED OVERLAY (LEVELING COURSE)
- PROPOSED SLURRY SEAL
- PROPOSED GRIND & LAP
- EXISTING PAVEMENT TO REMAIN
- EXISTING LEVEE

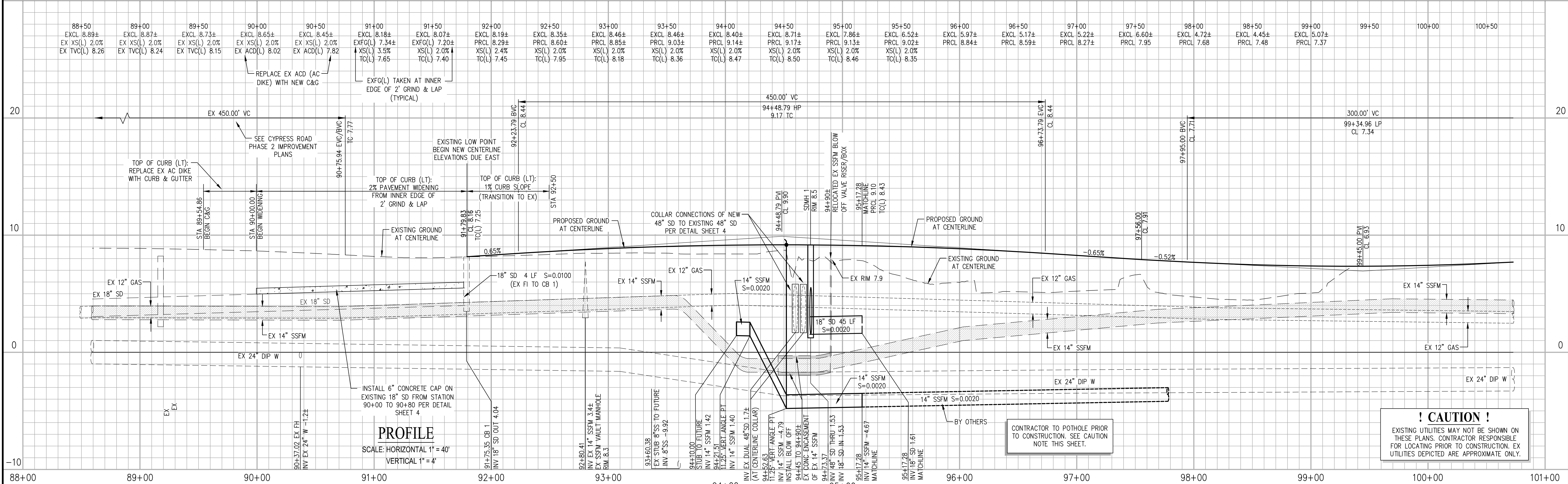
| CURVE TABLE | | | |
|-------------|----------|------------|---------|
| NO | RADIUS | DELTA | LENGTH |
| C1 | 2448.00' | 006°02'30" | 258.14' |
| C2 | 2553.00' | 001°37'14" | 72.20' |
| C4 | 30.00' | 085°07'27" | 44.57' |

NOTES:

- ALL EXISTING UTILITY LOCATIONS AND DEPTHS SHOWN ARE PER RECORD INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE. CONTRACTOR TO POTHOLE EX 24" WATER, GAS LINES AND TELEPHONE PRIOR TO CONSTRUCTION AND PROVIDE RESULTS TO CARLSON, BARBEE & GIBSON FOR ANALYSIS. CONTRACTOR TO PREPARE AND SUBMIT TRAFFIC CONTROL PLAN & SEQUENCING PLANS TO THE CITY OF OAKLEY PRIOR TO CONSTRUCTION OF CYPRESS ROAD.
- SEE JOINT TRENCH PLANS FOR EXISTING DRY UTILITY LOCATIONS.
- EXISTING POLES TO BE REMOVED PER JOINT TRENCH PLANS.
- CONTRACTOR TO COMPACT THE PAVEMENT BASE/ROCK WITHIN 5' OF EXISTING 14" SSFM PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

CYPRESS ROAD

SCALE: 1" = 40'



PROFILE

SCALE: HORIZONTAL 1" = 40' VERTICAL 1" = 4'

! CAUTION !
EXISTING UTILITIES MAY NOT BE SHOWN ON THESE PLANS. CONTRACTOR RESPONSIBLE FOR LOCATING PRIOR TO CONSTRUCTION. EX UTILITIES DEPICTED ARE APPROXIMATE ONLY.



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CYPRESS ROAD - PHASE 3

PLAN & PROFILE STA 88+00 TO 101+00

CITY OF OAKLEY

SUBDIVISION 9033

CALIFORNIA

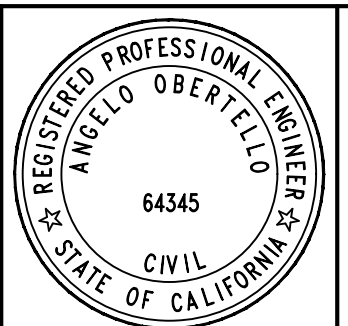
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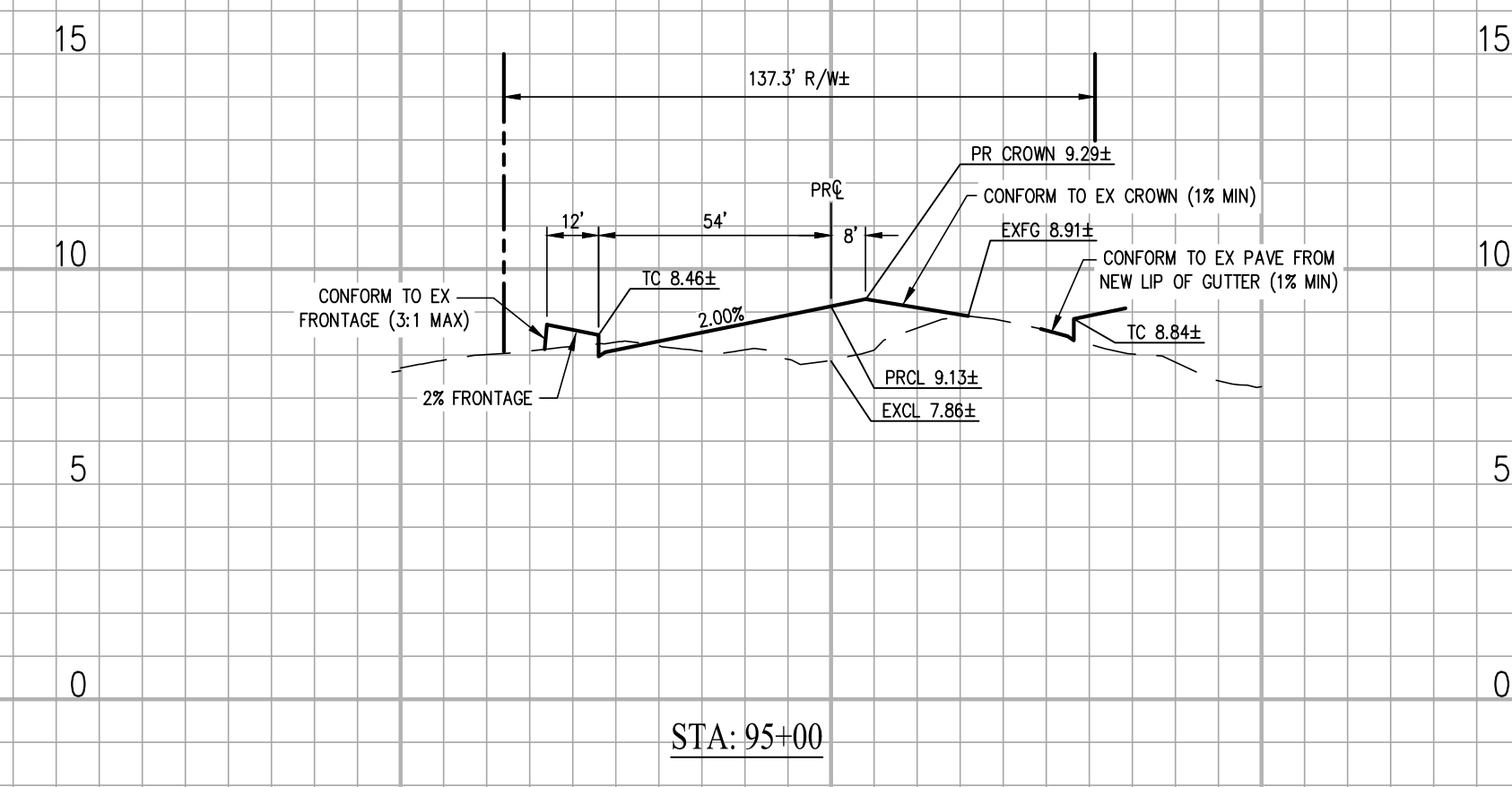
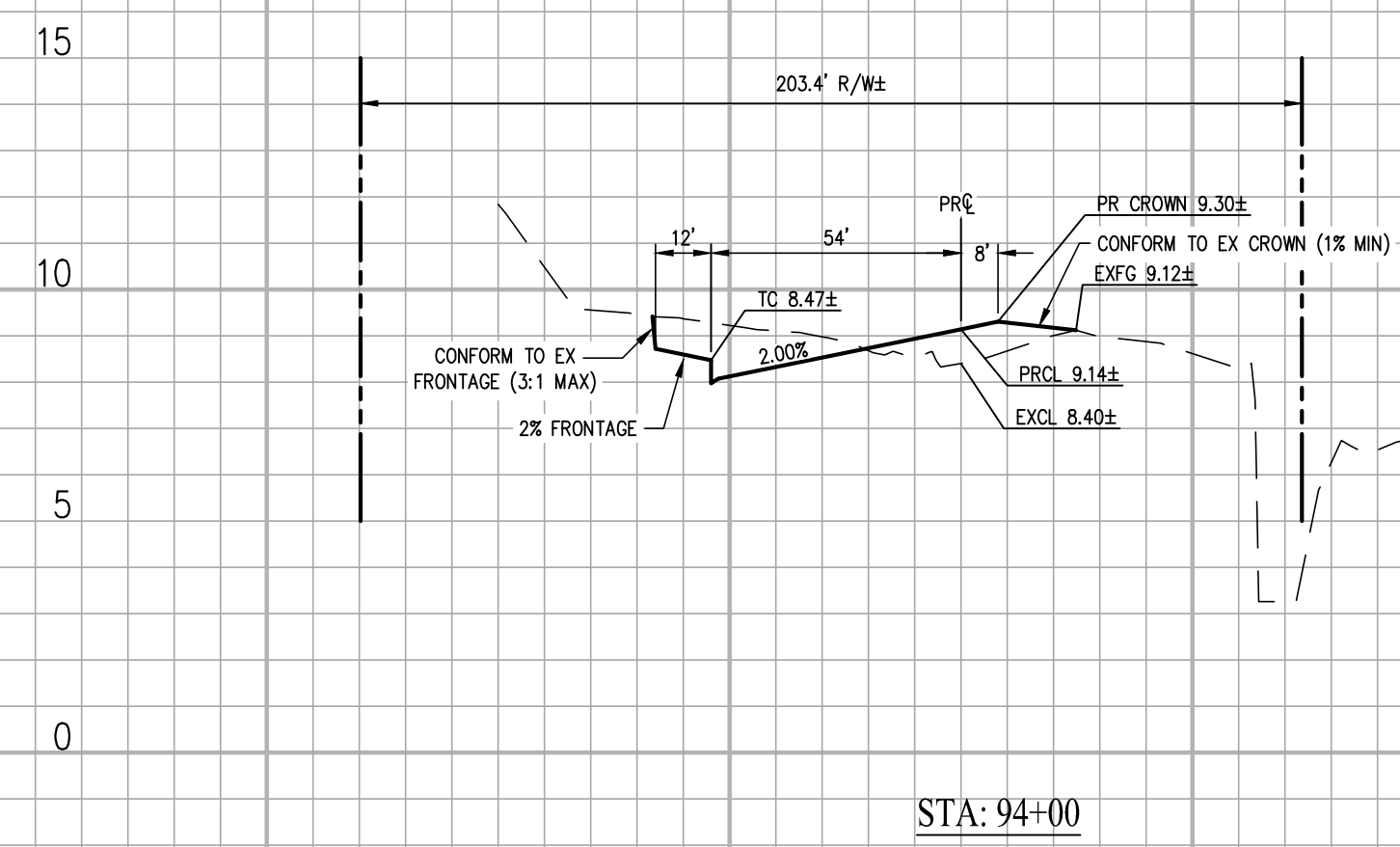
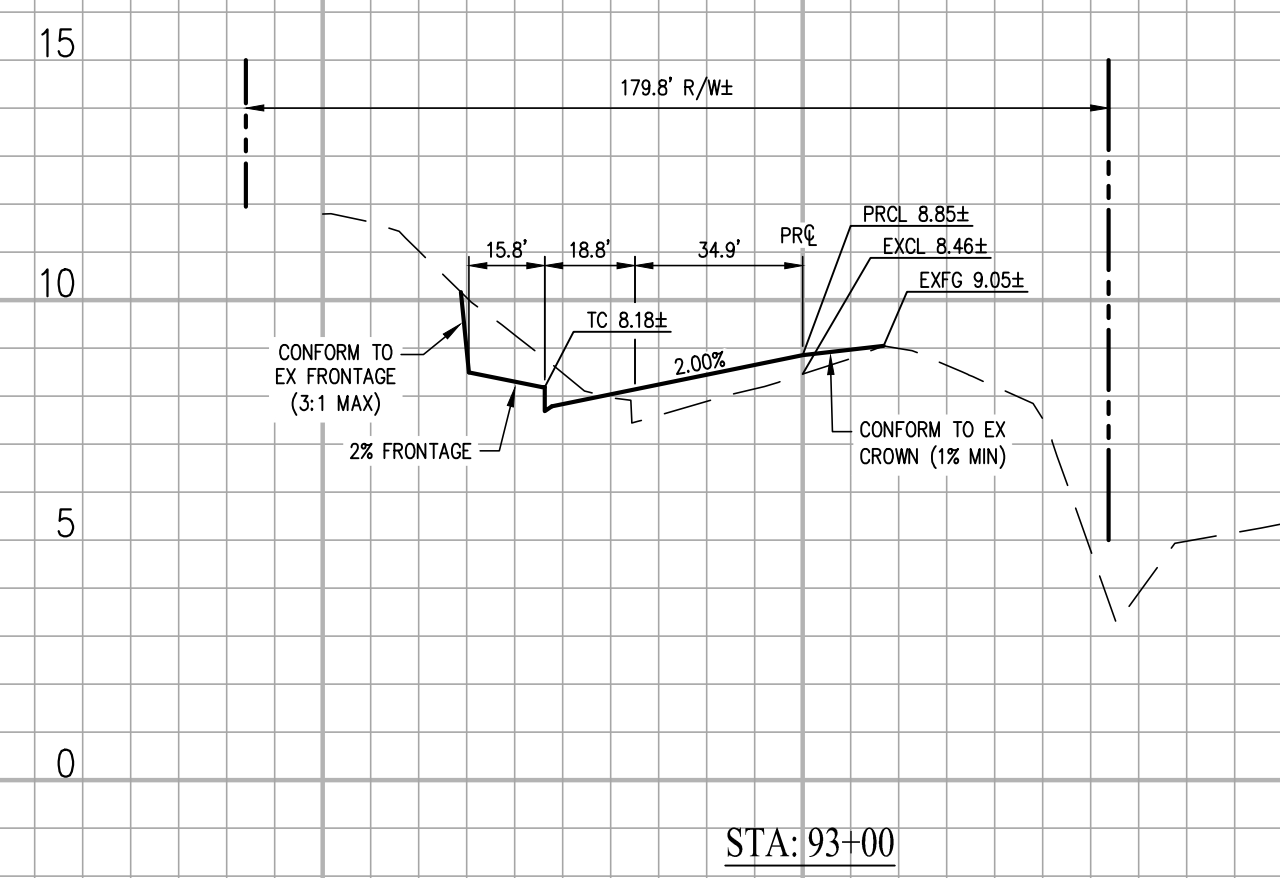
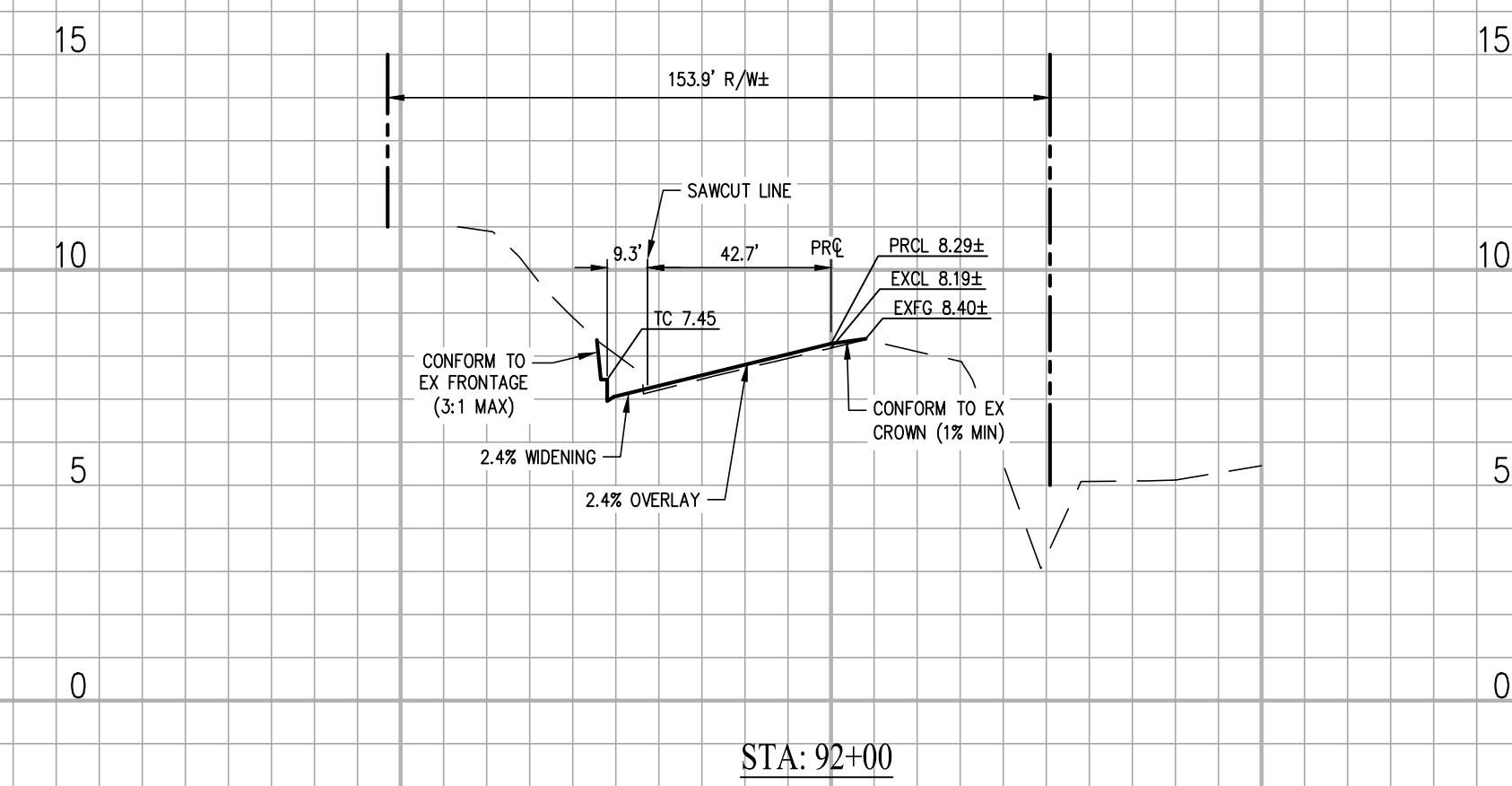
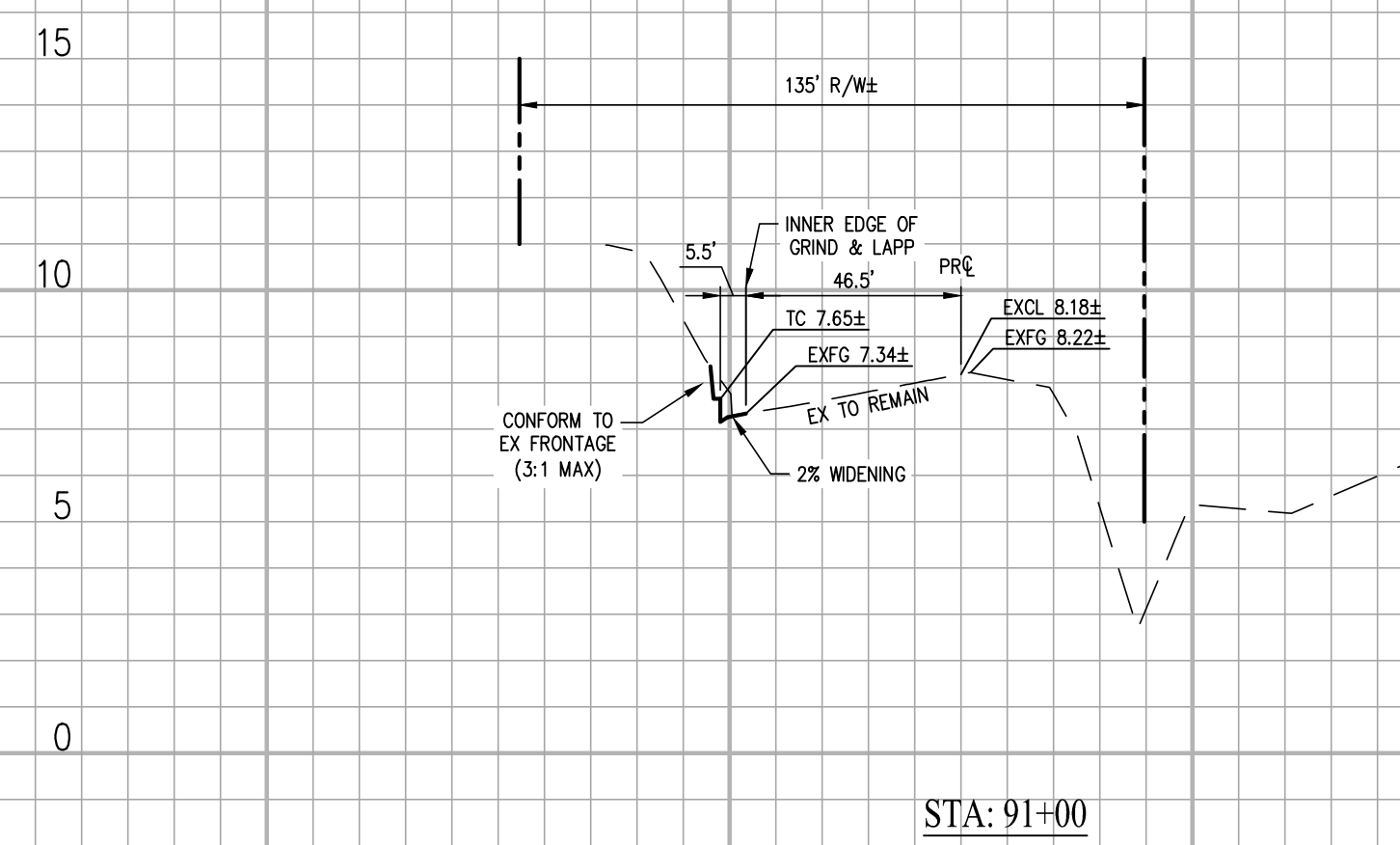
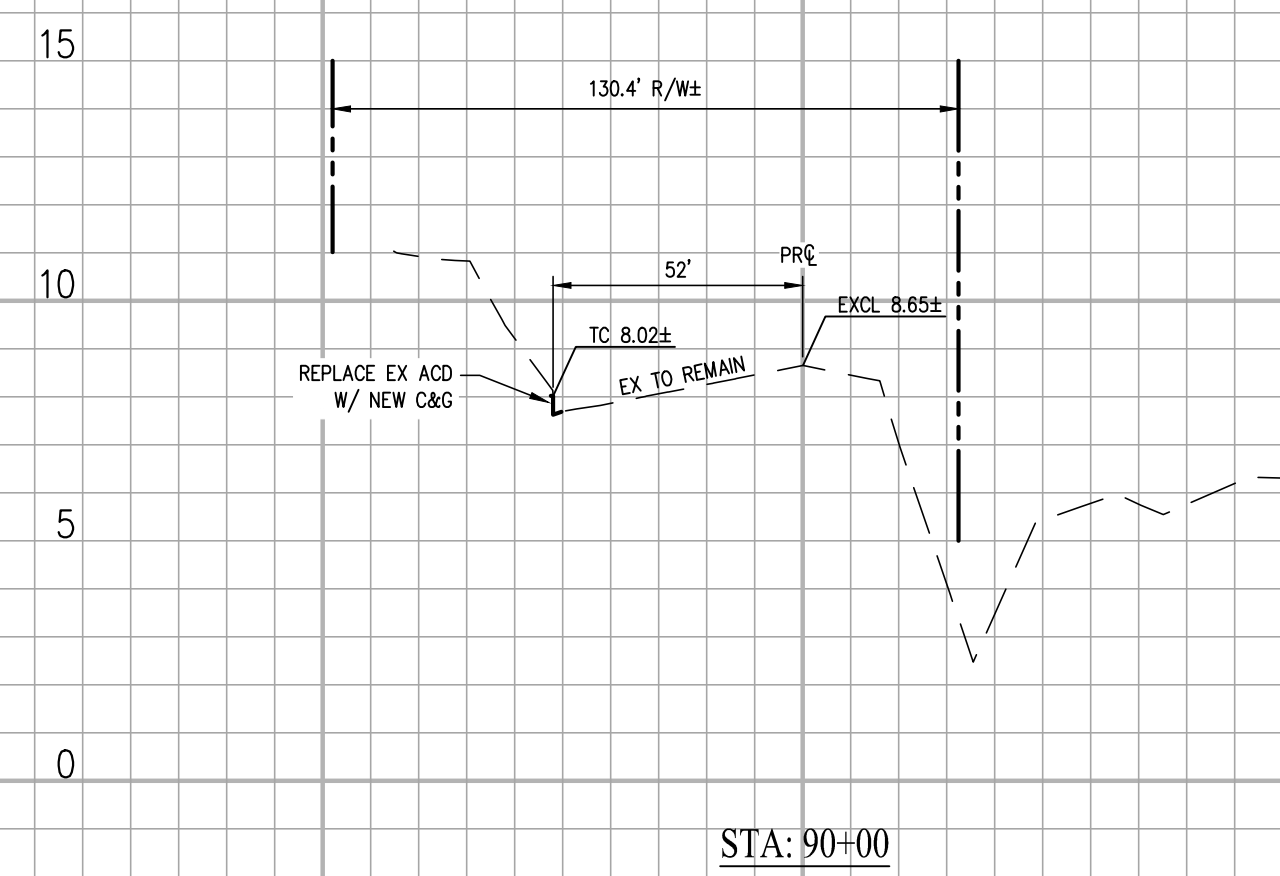
ANGEL OBERTELLO
R.C.E. No. 64345

DESIGN: KEJ DATE: JULY, 2022
DRAWN: KEJ DATE: JULY, 2022
CHECKED: AJO DATE: JULY, 2022

07/07/2022 DATE



SHEET
5
OF
10
SHEETS



SECTIONS
SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" = 4'



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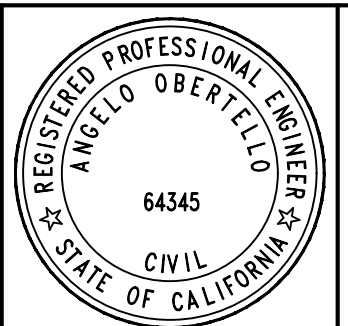
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CYPRESS ROAD - PHASE 3
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CROSS SECTIONS
CALIFORNIA

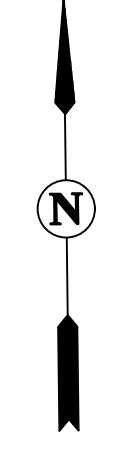
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DESIGNED UNDER THE DIRECTION OF:
[Signature]
ANGELO OBERTELLO
R.C.E. NO. 64345
DATE: 07/07/2022

DESIGN: KEJ DATE: JULY, 2022
DRAWN: KEJ DATE: JULY, 2022
CHECKED: AJO DATE: JULY, 2022



SHEET
6
OF
10
SHEETS



| CURVE TABLE | | | |
|-------------|----------|------------|---------|
| NO | RADIUS | DELTA | LENGTH |
| C1 | 2448.00' | 006°02'30" | 258.14' |
| C2 | 2553.00' | 001°37'14" | 72.20' |
| C3 | 2480.00' | 004°25'18" | 191.39' |
| C4 | 2488.00' | 004°25'18" | 192.00' |
| C5 | 2500.00' | 004°25'18" | 192.93' |
| C6 | 2500.00' | 004°25'17" | 192.92' |
| C7 | 2500.00' | 005°16'13" | 229.96' |
| C8 | 1.75' | 177°27'37" | 5.42' |
| C9 | 2512.00' | 002°02'01" | 89.16' |
| C10 | 70.00' | 030°11'06" | 36.88' |
| C11 | 11.00' | 149°48'54" | 28.76' |
| C12 | 42.00' | 017°46'23" | 13.03' |
| C13 | 30.00' | 090°27'59" | 47.37' |
| C14 | 30.00' | 085°06'43" | 44.56' |
| C15 | 271.17' | 008°29'00" | 40.15' |
| C16 | 271.17' | 008°29'00" | 40.15' |
| C17 | 1014.00' | 004°25'33" | 78.33' |
| C18 | 1012.00' | 004°25'33" | 78.17' |
| C19 | 1000.00' | 004°25'33" | 77.25' |
| C20 | 1000.00' | 004°28'25" | 78.08' |
| C21 | 1012.00' | 004°28'25" | 79.02' |
| C22 | 998.00' | 004°25'33" | 77.09' |
| C23 | 1000.00' | 004°25'33" | 77.25' |
| C24 | 1012.00' | 004°25'33" | 78.17' |
| C25 | 1012.00' | 004°25'34" | 78.18' |
| C26 | 1000.00' | 004°25'34" | 77.25' |

LEGEND:

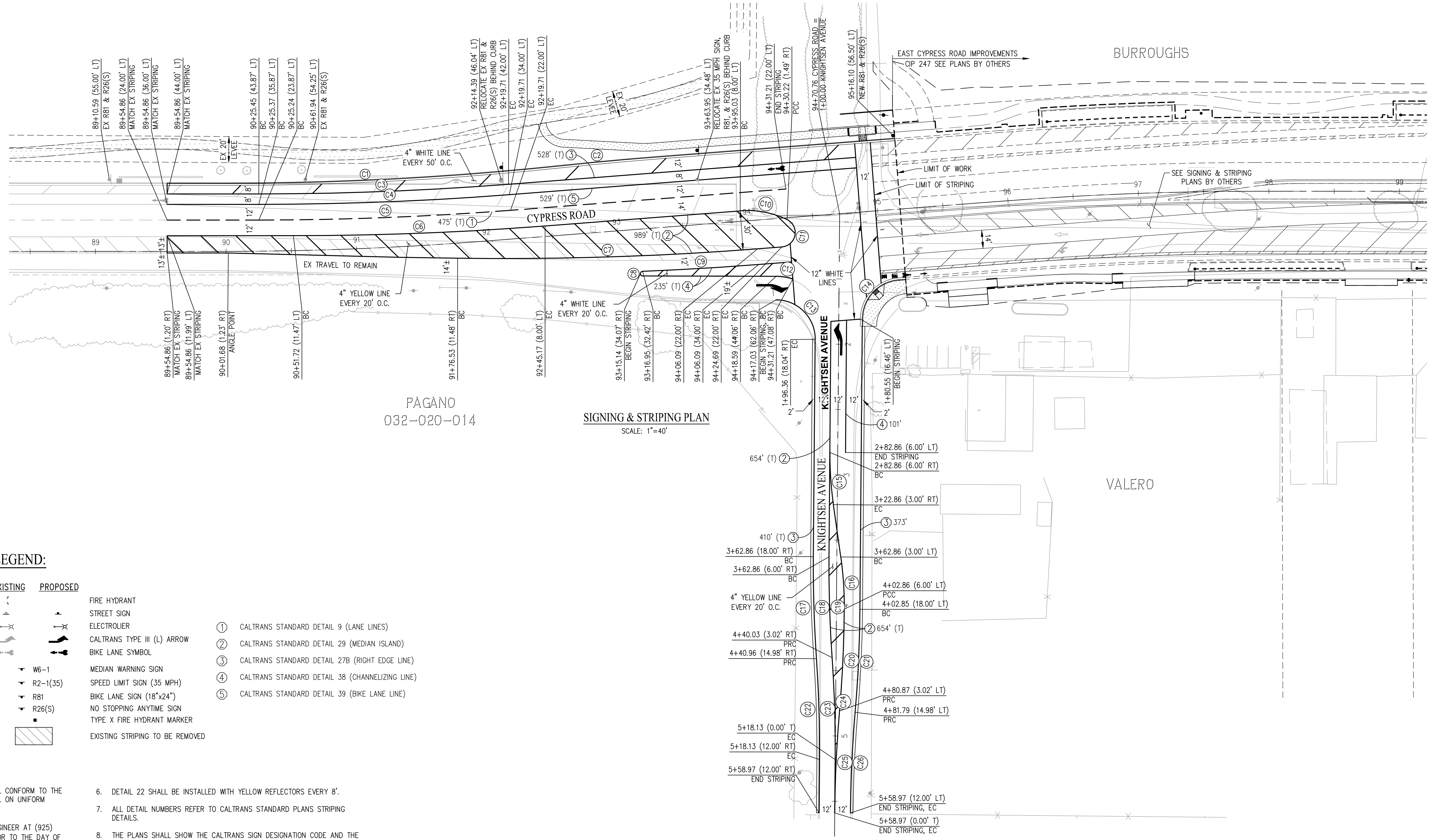
| EXISTING | PROPOSED | |
|----------|----------|---------------------------------|
| | | FIRE HYDRANT |
| | | STREET SIGN |
| | | ELECTROLIER |
| | | CALTRANS TYPE III (L) ARROW |
| | | BIKE LANE SYMBOL |
| | | W6-1 |
| | | R2-1(35) |
| | | R81 |
| | | R26(S) |
| | | NO STOPPING ANYTIME SIGN |
| | | TYPE X FIRE HYDRANT MARKER |
| | | EXISTING STRIPING TO BE REMOVED |

- ① CALTRANS STANDARD DETAIL 9 (LANE LINES)
- ② CALTRANS STANDARD DETAIL 29 (MEDIAN ISLAND)
- ③ CALTRANS STANDARD DETAIL 27B (RIGHT EDGE LINE)
- ④ CALTRANS STANDARD DETAIL 38 (CHANNELIZING LINE)
- ⑤ CALTRANS STANDARD DETAIL 39 (BIKE LANE LINE)

STRIPING NOTES:

- ALL STRIPING, PAVEMENT MARKING, AND SIGNING SHALL CONFORM TO THE LATEST EDITION OF THE CALTRANS CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD).
- THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT (925) 625-7000 A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO THE DAY OF THE LAYOUT OF THE PROPOSED SIGNING AND STRIPING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND CAT TRACKING OF ALL PROPOSED STRIPING AND MARKING. NO PERMANENT STRIPING OR MARKING SHALL BE PLACED UNTIL THE CAT TRACKING IS APPROVED BY THE CITY TRAFFIC ENGINEER.
- PAVEMENT LEGENDS, CROSSWALKS, BIKE LANES AND SOLID WHITE LINES SHALL BE INSTALL USING THERMOPLASTIC PER CALTRANS STANDARDS.
- ALL STREET SIGN PLACEMENTS SHALL BE PER THE CITY TRAFFIC ENGINEER.

- DETAIL 22 SHALL BE INSTALLED WITH YELLOW REFLECTORS EVERY 8'.
- ALL DETAIL NUMBERS REFER TO CALTRANS STANDARD PLANS STRIPING DETAILS.
- THE PLANS SHALL SHOW THE CALTRANS SIGN DESIGNATION CODE AND THE LOCATION OF THE INSTALLATION. STOP SIGNS SHALL BE 30" HIGH INTENSITY SHEETING OVER 0.080 ALUMINUM.
- BLUE PAVEMENT MARKERS SHALL BE INSTALLED AT EVERY FIRE HYDRANT PER CITY STANDARDS.
- INSTALL NEW TRAFFIC SIGNS ON ELECTROLIER POLES WHEN FEASIBLE.
- UNLESS OTHERWISE NOTED, ALL CROSSWALKS ARE 12' WIDE AND ALL CROSSWALK STRIPES ARE 12" WHITE SOLID LINES.



SIGNING & STRIPING PLAN
SCALE: 1"=40'



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SAN RAMON • (925) 866-0322
ROSEVILLE • (916) 788-4456
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CYPRESS ROAD - PHASE 3

SUBDIVISION 9033

SIGNING & STRIPING PLAN

CITY OF OAKLEY

CALIFORNIA

| NO. | REVISIONS | BY | APP | DATE |
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R.C.E. NO. 64345

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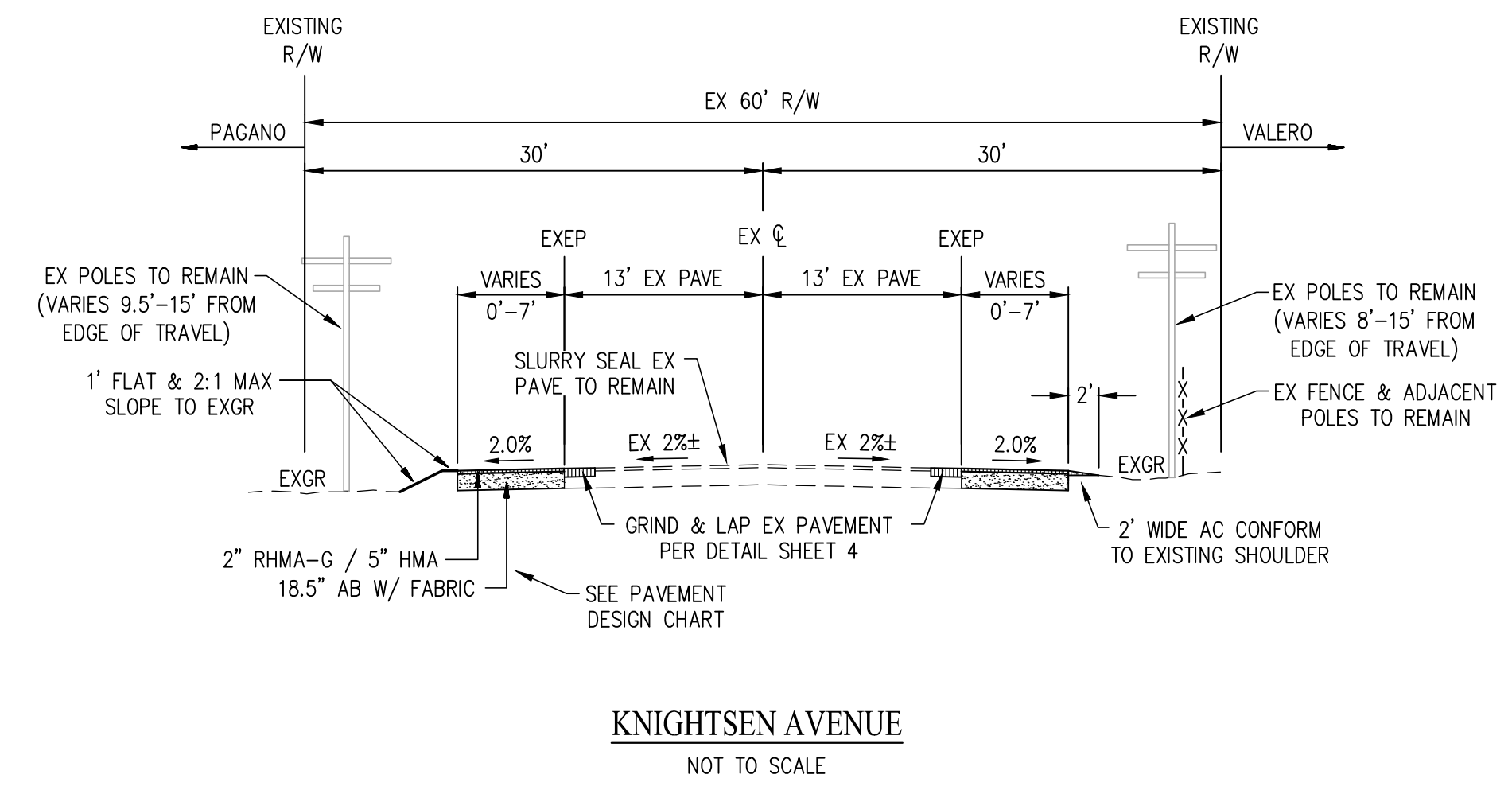
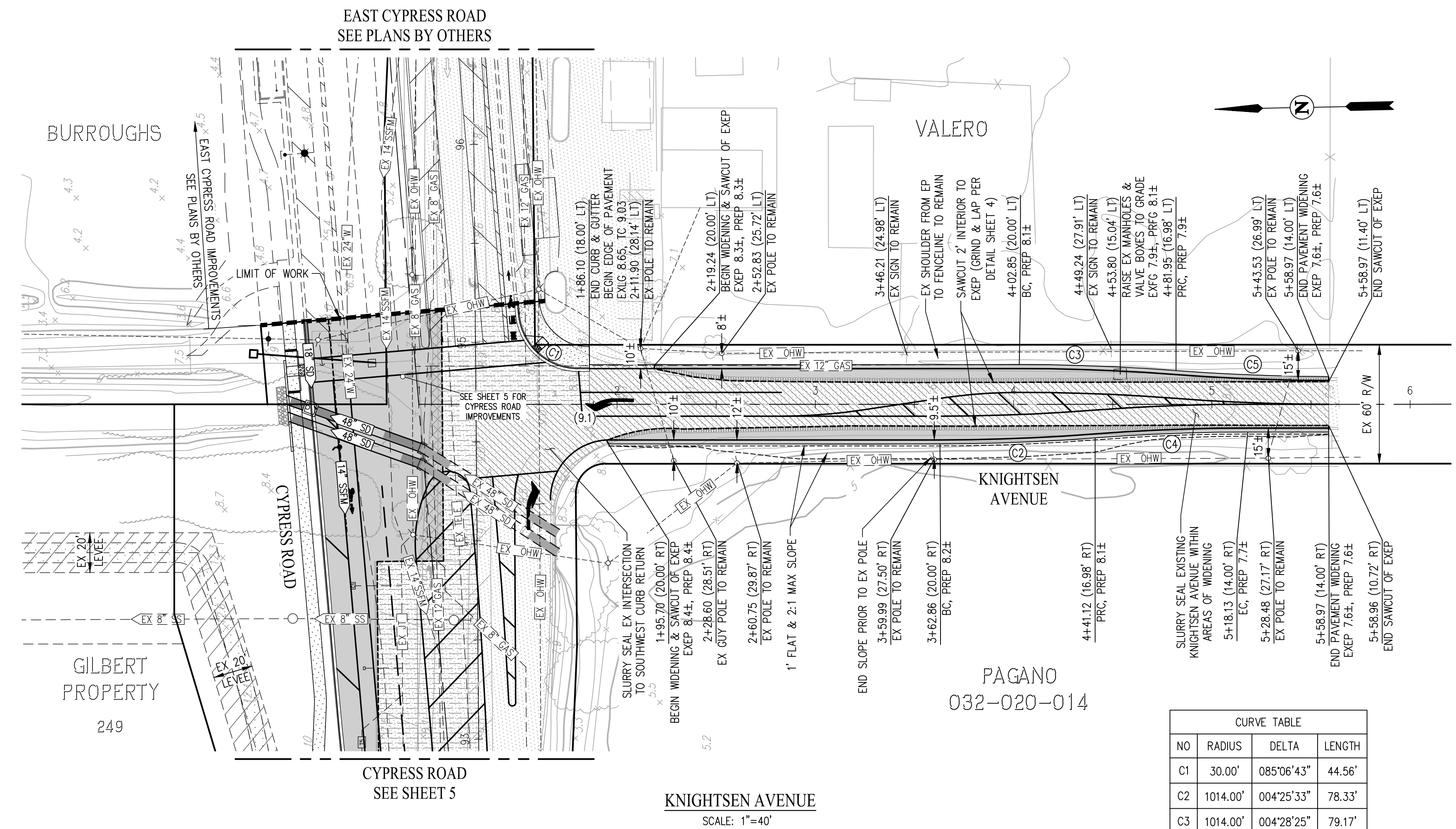
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CHECKED: AJO DATE: JULY, 2022



REGISTERED PROFESSIONAL ENGINEER
ANGELO OBERTELLO
64345
CIVIL
STATE OF CALIFORNIA

SHEET **7** OF 10 SHEETS

| LEGEND | |
|--------|------------------------------------|
| | PROPOSED PAVEMENT |
| | REMOVE & REPLACE EX PAVEMENT |
| | PROPOSED CONCRETE WALK/TRAIL |
| | PROPOSED OVERLAY (LEVELING COURSE) |
| | PROPOSED SLURRY SEAL |
| | PROPOSED GRIND & LAP |
| | EXISTING PAVEMENT TO REMAIN |
| | EXISTING LEVEL |



CURVE TABLE

| NO | RADIUS | DELTA | LENGTH |
|----|----------|------------|--------|
| C1 | 30.00' | 085°06'43" | 44.56' |
| C2 | 1014.00' | 004°25'33" | 78.33' |
| C3 | 1014.00' | 004°28'25" | 79.17' |
| C4 | 998.00' | 004°25'33" | 77.09' |
| C5 | 998.00' | 004°25'34" | 77.10' |



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CYPRESS ROAD - PHASE 3 **SUBDIVISION 9033**

KNIGHTSEN AVENUE WIDENING

CITY OF OAKLEY **CALIFORNIA**

| NO. | REVISIONS | BY | APP | DATE |
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ANGELO OBERTELLO
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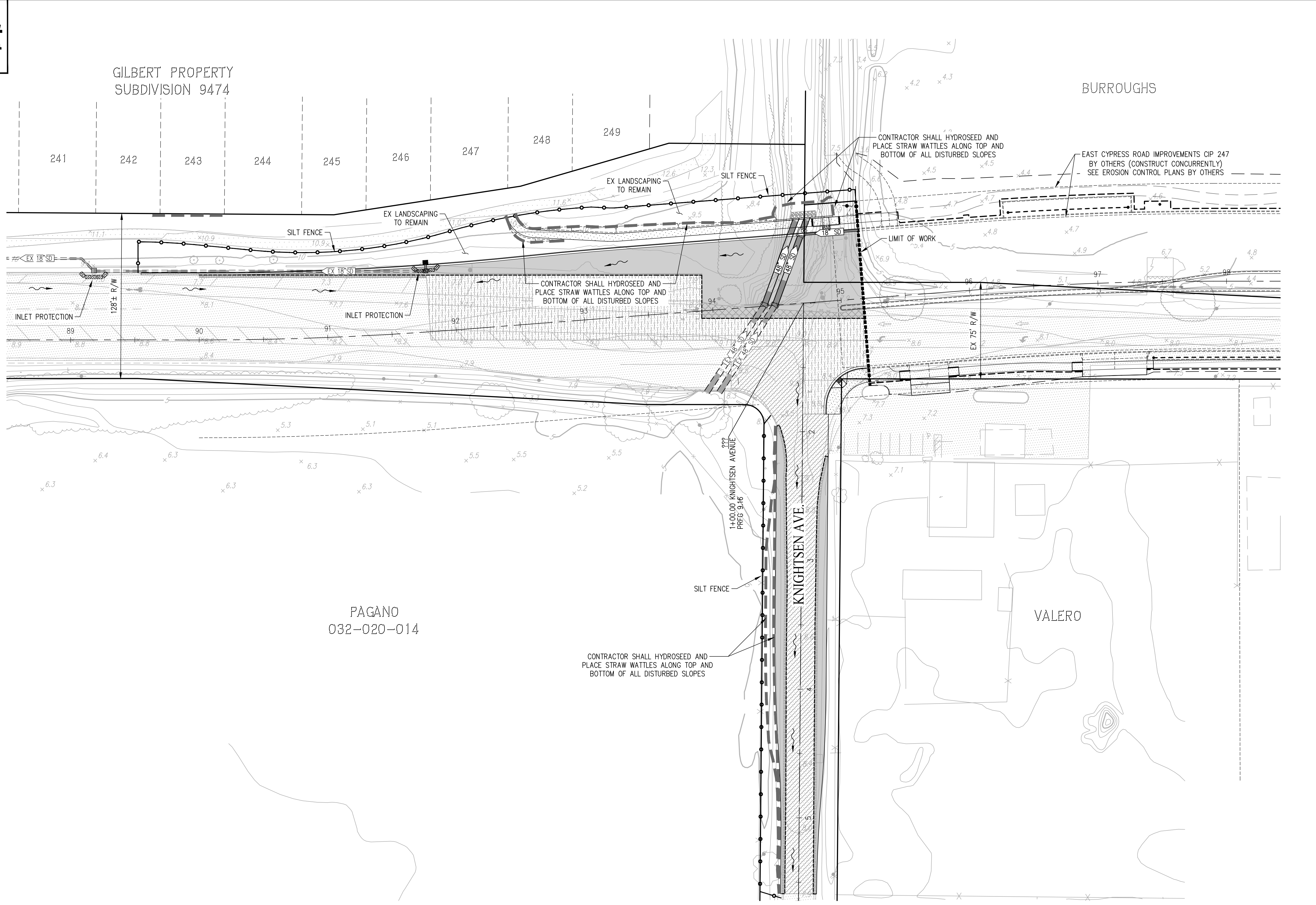
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REGISTERED PROFESSIONAL ENGINEER
ANGELO OBERTELLO
64345
CIVIL
STATE OF CALIFORNIA

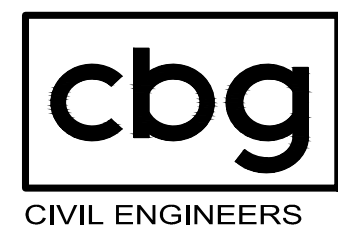
SHEET **8** OF **10** SHEETS



| LEGEND | |
|--------|------------------------------------|
| | PROPOSED PAVEMENT |
| | REMOVE & REPLACE EX PAVEMENT |
| | PROPOSED CONCRETE WALK/TRAIL |
| | PROPOSED OVERLAY (LEVELING COURSE) |
| | PROPOSED SLURRY SEAL |
| | PROPOSED GRIND & LAP |
| | EXISTING PAVEMENT TO REMAIN |
| | EXISTING LEVEE |

EROSION CONTROL PLAN

SCALE: 1" = 40'



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CYPRESS ROAD - PHASE 3

SUBDIVISION 9033

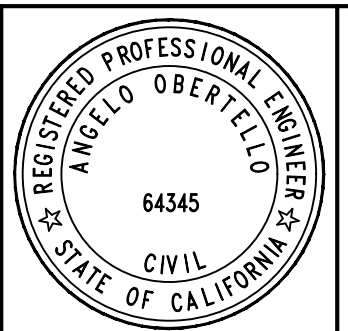
EROSION CONTROL PLAN

CITY OF OAKLEY

CALIFORNIA

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| DESIGNED UNDER THE DIRECTION OF: | |
| | 07/07/2022 |
| ANGELO OBERTELLO R.C.E. No. 64345 | DATE |
| DESIGN: KEJ | DATE: JULY, 2022 |
| DRAWN: KEJ | DATE: JULY, 2022 |
| CHECKED: AJO | DATE: JULY, 2022 |



SHEET **9** OF **10** SHEETS

**RISK LEVEL 1 SITES -
BEST MANAGEMENT PRACTICE NOTES:**

- RISK LEVEL 1 SITES ARE NOT SUBJECT TO A NUMERIC EFFLUENT STANDARD.
- RISK LEVEL 1 SITES DO NOT REQUIRE A RAIN EVENT ACTION PLAN.
- RISK LEVEL 1 SITE MONITORING AND REPORTING REQUIREMENTS:

| SUMMARY OF MONITORING AND REPORTING REQUIREMENTS | | | | | | | |
|--|--|--------------------|------|-----------------------|---------------|-------------------------|--------------------|
| RISK LEVEL | QUARTERLY NON-STORMWATER DISCHARGE | VISUAL INSPECTIONS | | | | SAMPLE COLLECTION | |
| | | PRE-STORM EVENT | | DAILY STORM BMP | POST STORM | STORMWATER DISCHARGE | RECEIVING WATER |
| | | BASELINE | REAP | | | | |
| X | X | X | N/A | X | X | N/A | N/A |

- IT SHALL BE THE LEGALLY RESPONSIBLE PARTY'S (LRP/DISCHARGER) DUTY TO MAINTAIN CONTROL OF THE ENTIRE CONSTRUCTION OPERATION AND TO ENSURE THE ENTIRE SITE IS IN COMPLIANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) APPROVED FOR THE SITE, THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD (SWRCB) ORDER NO. 2009-0009 DWQ, NPDES NO. CAS000002 AND THE CASQA CONSTRUCTION BMP GUIDANCE HANDBOOK.
- THIS PLAN IS INTENDED TO BE UTILIZED FOR INTERIM EROSION AND SEDIMENT CONTROL ONLY AND IS NOT TO BE UTILIZED FOR FINAL ELEVATIONS OR PERMANENT IMPROVEMENTS.
- THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT MAY ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS AND ADDITIONS MAY BE MADE TO THIS PLAN AS NECESSARY IN THE FIELD. DOCUMENT AND REPORT ANY FIELD CHANGES PER THE REQUIREMENTS OF THE SWPPP AND NOTIFY THE CITY OR COUNTY REPRESENTATIVE OF THE FIELD CHANGES.
- ALL MAINTENANCE AND OPERATION REQUIREMENTS SHALL COMPLY WITH THE SWPPP AND THE CASQA CONSTRUCTION BMP GUIDANCE HANDBOOK.
- DISCHARGERS SHALL EFFECT AND MAINTAIN PRECAUTIONARY MEASURES NECESSARY TO PROTECT ADJACENT WATERCOURSES AND PUBLIC OR PRIVATE PROPERTY FROM DAMAGE BY EROSION, FLOODING AND DEPOSITION OF MUD OR DEBRIS ORIGINATING FROM THE SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL ASPECTS OF EROSION CONTROL FOR THE PROJECT AND SHALL INSTALL AND MAINTAIN ANY DEVICES AND MEASURES NECESSARY TO THE SATISFACTION OF THE CITY OR COUNTY ENGINEER AND THE REGIONAL WATER QUALITY CONTROL BOARD (RWQCB).
- DISCHARGERS SHALL ESTABLISH AND MAINTAIN EFFECTIVE BMP PERIMETER CONTROLS AND STABILIZED ALL CONSTRUCTION ENTRANCES AND EXITS TO SUFFICIENTLY CONTROL EROSION AND SEDIMENT DISCHARGES FROM THE SITE YEAR-ROUND.
- EROSION CONTROL MEASURES WILL BE PROPERLY IN PLACE YEAR-ROUND. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FIVE DAY RAIN PROBABILITY EXCEEDS 50 PERCENT.
- INSPECTIONS AND OBSERVATIONS SHALL OCCUR WEEKLY, AND AT LEAST ONCE EACH 24-HOUR PERIOD DURING EXTENDED STORM EVENTS, TO IDENTIFY AND RECORD BMPs THAT NEED MAINTENANCE TO OPERATE EFFECTIVELY, THAT HAVE FAILED OR THAT COULD FAIL TO OPERATE AS INTENDED.
- DISCHARGERS SHALL IMPLEMENT MEASURES TO CONTROL ALL NON-STORMWATER DISCHARGES DURING CONSTRUCTION.
- DISCHARGERS SHALL IMPLEMENT EFFECTIVE WIND EROSION CONTROL.
- CONSTRUCTION TRAFFIC SPEEDS WILL BE LIMITED TO 15 MPH, OR LESS, AS REQUIRED BY THE CONTRACTOR.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF SITE WORK. ALL CONSTRUCTION TRAFFIC ENTERING THE PAVED ROAD MUST CROSS THE ENTRANCE. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY.
- APPLY GRAVEL CONSTRUCTION ENTRANCE MATERIAL WITHIN MATERIAL STORAGE AREA.
- APPLY GRAVEL CONSTRUCTION ENTRANCE MATERIAL WITHIN THE VEHICLE STORAGE AREA.
- PLACE ALL EQUIPMENT OR VEHICLES, WHICH ARE TO BE FUELED, MAINTAINED AND STORED IN A DESIGNATED AREA FITTED WITH APPROPRIATE BMPs.
- IMPLEMENT BMPs TO PREVENT THE OFF-SITE TRACKING OF LOOSE CONSTRUCTION AND LANDSCAPE MATERIALS.
- PAVED STREETS WILL BE MONITORED DAILY AND FREQUENTLY CLEANED. STREETS WILL ALSO BE SWEEPED ON AT LEAST A WEEKLY BASIS OR MORE OFTEN, AS NEEDED, TO MAINTAIN CONTINUOUS LITTER AND TRACKING CONTROL. STREET WASHING WILL NOT BE DONE.
- TRASH RECEPTACLES WILL BE PROVIDED THROUGHOUT THE SITE AND UTILIZED BY ALL WORKERS FOR MISCELLANEOUS TRASH. SITE REFUSE WILL BE PICKED UP ON A WEEKLY BASIS OR AS OFTEN AS NECESSARY IN ORDER TO KEEP THE SITE CLEAN.
- COVER AND BERM LOOSE STOCKPILED CONSTRUCTION MATERIALS THAT ARE NOT ACTIVELY BEING USED (I.E. SOIL, SPOILS, AGGREGATE, FLY-ASH, STUCCO, HYDRATED LIME, ETC.).
- CONTAIN AND SECURELY PROTECT STOCKPILED WASTE MATERIAL FROM WIND AND RAIN AT ALL TIMES UNLESS ACTIVELY BEING USED.
- EXCAVATING, FILLING, BACKFILLING AND GRADING WORK SHALL NOT BE PERFORMED DURING UNFAVORABLE WEATHER CONDITIONS.

GENERAL NOTES:

- LEGALLY RESPONSIBLE PARTY/PERSON (LRP) OWNER/SUBDIVIDER: DENOVA HOMES
1500 WILLOW PASS COURT
CONCORD, CALIFORNIA 94520
(925) 685-0110
MICHAEL EVANS
- CIVIL ENGINEER: CARLSON, BARBEE & GIBSON, INC.
2633 CAMINO RAMON, SUITE 350
SAN RAMON, CA 94583
(925) 866-0322
ANGELO OBERTELLO, RCE # 94583
- GEOTECHNICAL ENGINEER: STEVENS, FERRON & BAILEY
1600 WILLOW PASS COURT
CONCORD, CALIFORNIA 94520
(925) 688-1001
KEN FERRONE

- DISCHARGERS SHALL PROVIDE EFFECTIVE SOIL COVER FOR INACTIVE AREAS AND ALL FINISHED SLOPES, OPEN SPACE, UTILITY BACKFILL AND COMPLETED LOTS. INACTIVE AREAS OF CONSTRUCTION ARE AREAS OF CONSTRUCTION ACTIVITY THAT HAVE BEEN DISTURBED AND ARE NOT SCHEDULED TO BE RE-DISTURBED FOR AT LEAST 14 DAYS.
- SLOPES WILL BE GRADED SO THAT WATER IS DIRECTED AWAY FROM THE SLOPE FACES AT THE END OF EACH WORKING DAY WHEN A CHANCE OF RAIN IS FORECAST.
- ALL RILLS, GULLIES, ETC. WILL BE PROMPTLY REPAIRED AS PRACTICAL BY REGRADING OR INSTALLATION OF SOIL, GRAVEL OR SANDBAGS.
- ALL DRAIN INLETS WILL BE PROTECTED AS THEY ARE COMPLETED, DURING THE ENTIRE COURSE OF CONSTRUCTION.
- IF SEDIMENT BASINS ARE TO BE USED, DISCHARGERS SHALL, AT A MINIMUM DESIGN SEDIMENT BASINS ACCORDING TO THE METHOD PROVIDED IN CASQA'S CONSTRUCTION BMP GUIDANCE HANDBOOK.
- AFTER EACH RAINSTORM, SILT AND DEBRIS SHALL BE REMOVED FROM CHECK DAMS, FIBER ROLLS, SILT FENCES AND SILT SACKS. SEDIMENT TRAPS/BASINS SHOULD ALSO BE OBSERVED AND PUMPED DRY AS NECESSARY TO ASSURE PROPER FUNCTION AND CAPACITY.
- INTERIOR FIBER ROLLS MAY BE REMOVED AS THE AREA COMES UNDER CONSTRUCTION FOR FINISH GRADING AND LANDSCAPING INSTALLATION. PERIMETER PROTECTION SHOULD BE LEFT IN PLACE YEAR-ROUND.
- GRAVEL CHECK DAMS MAY BE REMOVED FROM UNPAVED ROADWAYS AS THEY COME UNDER CONSTRUCTION.

**APPLICABLE (BUT NOT LIMITED TO) CURRENT CASQA
STORMWATER BMP CONSTRUCTION HANDBOOK**

- | | |
|-------|---------------------------------------|
| EC-1 | SCHEDULING |
| EC-3 | HYDROMULCH |
| EC-4 | HYDROSEED |
| NS-1 | WATER CONSERVATION PRACTICES |
| NS-2 | DEWATERING OPERATIONS |
| NS-3 | PAVING & GRINDING OPERATIONS |
| NS-8 | VEHICLE & EQUIPMENT CLEANING |
| NS-9 | VEHICLE & EQUIPMENT FUELING |
| NS-10 | VEHICLE & EQUIPMENT MAINTENANCE |
| NS-12 | CONCRETE CURING |
| NS-13 | CONCRETE FINISHING |
| SE-1 | SILT FENCE |
| SE-4 | CHECK DAMS |
| SE-5 | FIBER ROLLS |
| SE-10 | DI PROTECTION TYPE 1 |
| SE-10 | DI PROTECTION TYPE 2 |
| SE-10 | DI PROTECTION TYPE 3 |
| TC-1 | STABILIZED CONSTRUCTION ENTRANCE/EXIT |
| TC-2 | STABILIZED CONSTRUCTION ROADWAY |
| TC-3 | ENTRANCE & OUTLET TIRE WASH |
| WE-1 | WIND EROSION CONTROL |
| WM-1 | MATERIAL DELIVERY & STORAGE |
| WM-2 | MATERIAL USE |
| WM-3 | STOCKPILE MANAGEMENT |
| WM-8 | CONCRETE WASTE MANAGEMENT |
| WM-9 | SANITARY/SEPTIC WASTE MANAGEMENT |

LEGEND

- DIRECTION OF FLOW WITH STORM DRAIN INSTALLED
- FIELD INLET PROTECTION - (SE-10)
- CURB INLET PROTECTION - (SE-10)
- SILT FENCE - (SE-1)
- FIBER ROLL - (SE-5)
- HYDROSEED MIX OR HYDROMULCH - (EC-4 OR EC-3)
- STABILIZED CONSTRUCTION ENTRANCE/EXIT - (TC-1)
- STABILIZED CONSTRUCTION ROAD - (TC-2)
- CHECK DAMS - (SE-4)
- FIELD INLET
- CURB CUT
- PROPOSED STORM DRAIN
- EXISTING STORM DRAIN
- STORMWATER DISCHARGE SAMPLING LOCATION*

NOTE:

* STORMWATER DISCHARGE SAMPLING LOCATIONS ARE SUBJECT TO CHANGE AND WILL BE REMOVED, RELOCATED OR ADDED AT THE QSP'S DISCRETION.

**QUALIFIED SWPPP PRACTITIONER (QSP)
MARK KNOWN LOCATIONS***

- MATERIALS AND EQUIPMENT STORAGE AREA (WM-1)
- VEHICLE CLEANING/MAINTENANCE/FUELING AREA - (NS-8, NS-9, NS-10)
- SANITARY FACILITY (WM-9)
- CONCRETE/WASTE WASHOUT (WM-8)

NOTE:

* THE MATERIALS AND EQUIPMENT STORAGE AREA, VEHICLE CLEANING/MAINTENANCE/FUELING AREA, SANITARY FACILITY AND CONCRETE/WASTE WASHOUT WILL BE PLACED AT THE QSP'S DISCRETION AND ARE SUBJECT TO CHANGE.



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CIVIL ENGINEERS SURVEYORS PLANNERS

CYPRESS ROAD - PHASE 3

SUBDIVISION 9033

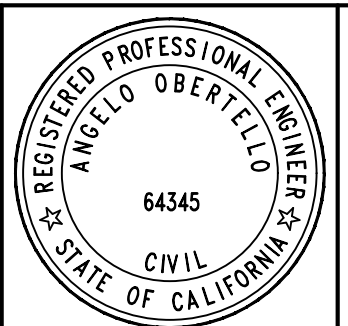
EROSION CONTROL NOTES

CITY OF OAKLEY

CALIFORNIA

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| CHECKED: AJO | DATE: JULY, 2022 |



SHEET
10
OF
10
SHEETS

II. The following plan sheets have been replaced

Sheet 7, G1.6 – Civil Details

Sheet 8, G1.7 – Civil Details

Sheet 10, G1.9 – Civil Details

Sheet 11, G1.10 – Civil Details

Sheet 12, G1.11 – Civil Details

Sheet 14, C1.0 – Typical Street Section

Sheet 19, C3.1 – Improvement Plan & Profile Sta 95+00 – Sta 106+00

Sheet 20, C3.2 – Improvement Plan – Plan & Profile Sta 106+00 – Sta 117+00

Sheet 21, C4.1 – Water Main Plan & Profile Sta 95+00 – Sta 106+00

Sheet 22, C4.2 – Water Main Plan & Profile Sta 106+00 – Sta 117+00

Sheet 32, C8.1 – Storm Drain Profiles

Sheet 33, C9.1 – East Cypress Road - Stage 1

Sheet 34, C9.2 – East Cypress Road - Stage 2

Sheet 52, L1.1 – Notes and Plant Schedule

Sheet 55, L2.2 – Planting plan

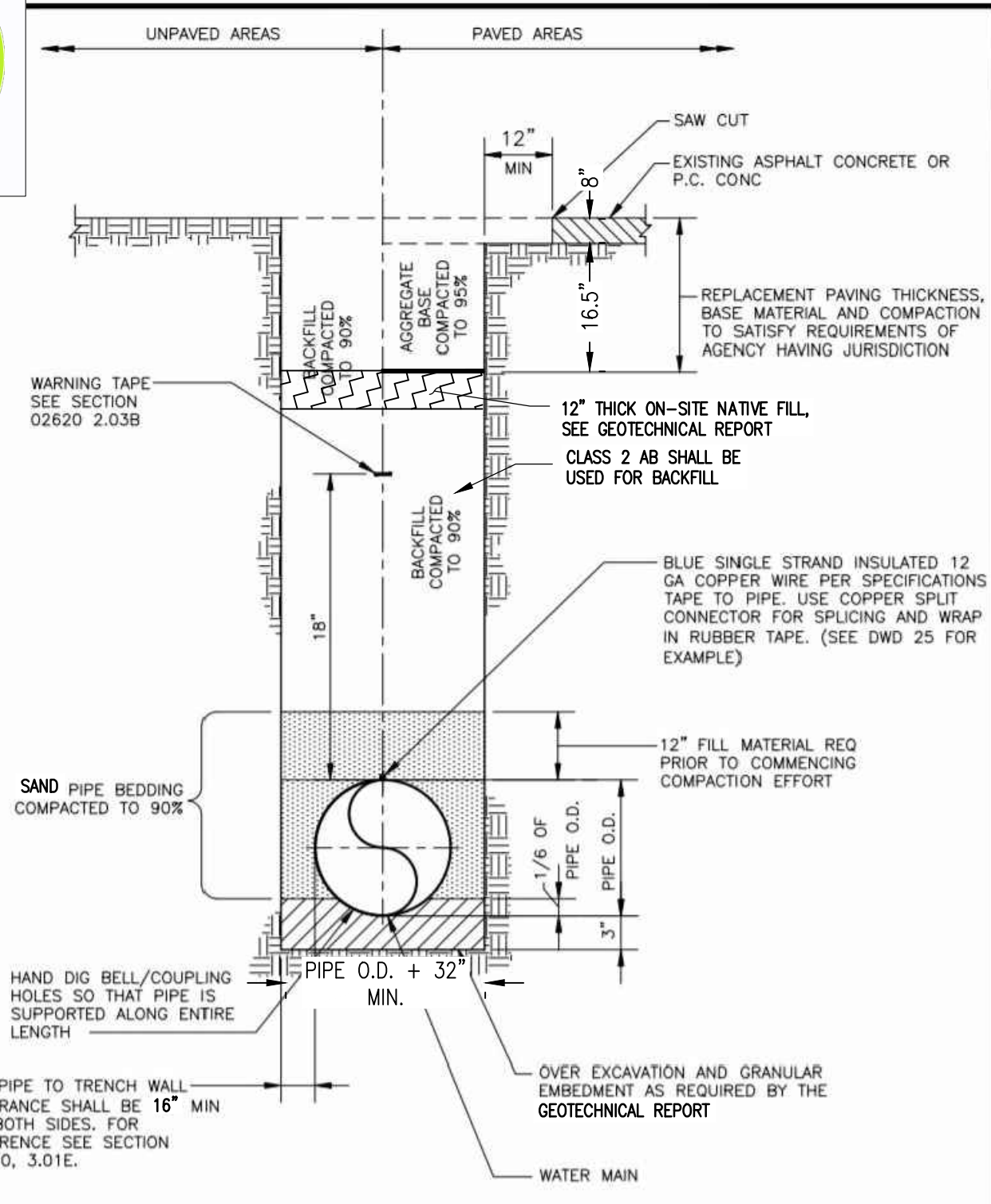
Sheet 56, L2.3 – Planting plan

Sheet 57, L2.4 – Planting plan

Sheet 61, L4.2 – Irrigation plan

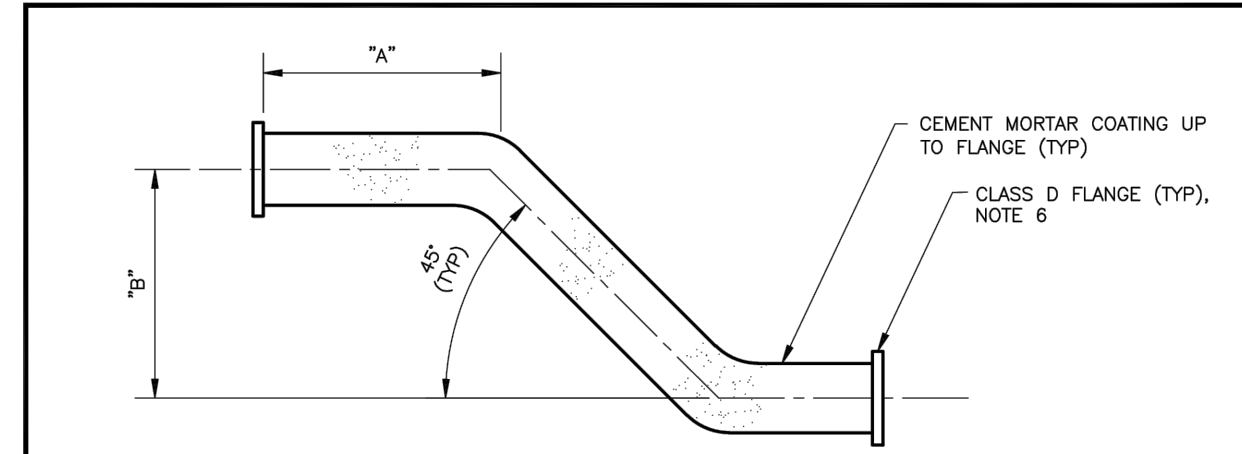
Sheet 62, L4.3 – Irrigation plan

Sheet 63, L4.4 – Irrigation plan



DESIGNED: WDB DRAWN: WKT APPROVED: WW DATE: JUNE, 2019 DWG. NO: DWD 1

DIABLO WATER DISTRICT STANDARD DRAWING STANDARD TRENCH SECTION

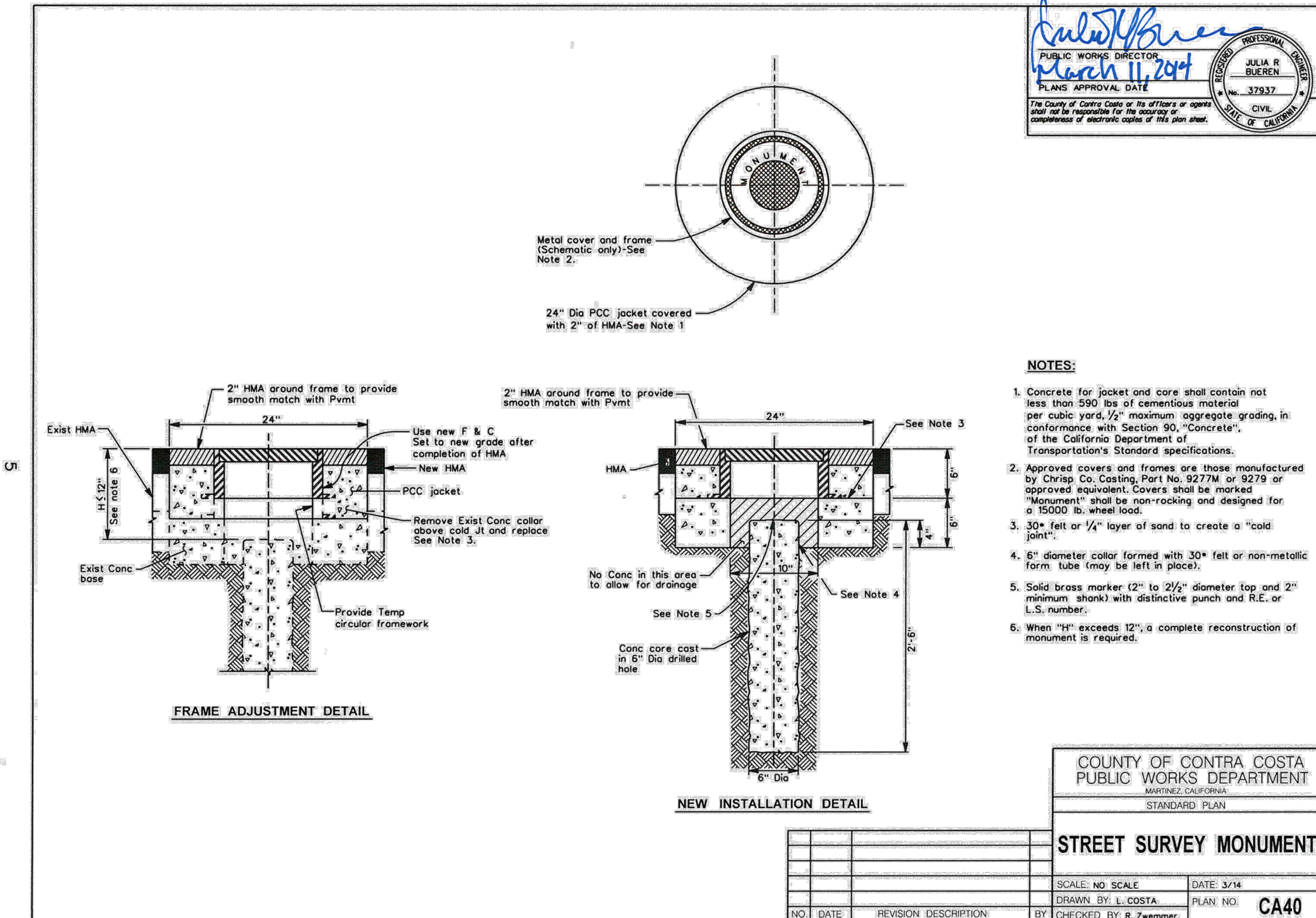


- NOTES:
- NOMINAL STEEL PIPE DIMENSIONS ON DRAWINGS REPRESENT THE MINIMUM PIPE INSIDE DIAMETER AFTER LINING.
 - STEEL PIPE SHALL CONFORM TO AWWA C200. LININGS AND COATINGS SHALL CONFORM TO AWWA C205.
 - SINGLE OFFSET TO BE FABRICATED BY WELDING USING TWO 45° BUTT WELDING LONG RADIUS ELBOWS. MITRED ELBOWS CONFORMING TO AWWA C208 MAY BE USED ON 16" AND 18" OFFSETS.
 - 18" DIMENSION AS REQUIRED.
 - CEMENT MORTAR LINING SHALL BE SHOP APPLIED AND BE FINISHED SQUARE AND UNIFORM AT THE ENDS OF THE PIPE.
 - FLANGE PATTERN TO MATCH CONNECTING FITTING. FLANGE TO PIPE WELD SIZE SHALL CONFORM TO AWWA C207. FLANGES SHALL BE EPOXY COATED.
 - REFER TO SPEC SECTIONS 02512 & 02675.

| NOMINAL PIPE SIZE (MIN ID AFTER LINING) | STANDARD PIPE OD TO ACHIEVE REQD MIN ID | TYP PIPE ID AFTER LINING OF STANDARD PIPE SIZES | PIPE MINIMUM WALL THICKNESS | CEMENT MORTAR LINING THICKNESS | CEMENT MORTAR COATING THICKNESS | "A" |
|---|---|---|-----------------------------|--------------------------------|---------------------------------|-------|
| 6" | 8.625" | 7.481" | 0.322" | 1/4" | 3/4" | 4'-0" |
| 8" | 10.75" | 9.520" | 0.365" | 1/4" | 3/4" | 4'-0" |
| 10" | 12.75" | 11.375" | 0.375" | 5/16" | 3/4" | 4'-0" |
| 12" | 14.0" | 12.625" | 0.375" | 5/16" | 3/4" | 4'-0" |
| 16" | 18.0" | 16.625" | 0.375" | 5/16" | 3/4" | 4'-0" |
| 18" | 20.0" | 18.625" | 0.375" | 5/16" | 3/4" | 4'-0" |
| 20" | 22.0" | 20.50" | 0.375" | 3/8" | 3/4" | 4'-0" |
| 24" | 26.0" | 24.50" | 0.375" | 3/8" | 3/4" | 4'-0" |

DESIGNED: WDB DRAWN: WKT APPROVED: WW DATE: JUNE, 2019 DWG. NO: DWD 7

DIABLO WATER DISTRICT STANDARD DRAWING SINGLE OFFSET STEEL PIPE, CEMENT MORTAR LINED AND COATED, 6" TO 24"



APPROVED: JULIA R. BUREN, PUBLIC WORKS DIRECTOR, MARCH 11, 2014

- NOTES:
- Concrete for jacket and core shall contain not less than 500 lbs of cementitious material per cubic yard, 1/2" maximum aggregate grading, in conformance with Section 90, "Concrete", of the California Department of Transportation's Standard specifications.
 - Approved covers and frames are those manufactured by Chrisp Co. Casting, Part No. 9277M or 9279 or approved equivalent. Covers shall be marked "Monument" shall be non-rocking and designed for a 15000 lb wheel load.
 - 30# felt or 1/4" layer of sand to create a "cold joint".
 - 6" diameter collar formed with 30# felt or non-metallic form. Tube (may be left in place).
 - Solid brass marker (2" to 2 1/2" diameter top and 2" minimum shank) with distinctive punch and B.E. or L.S. number.
 - When "H" exceeds 12", a complete reconstruction of monument is required.

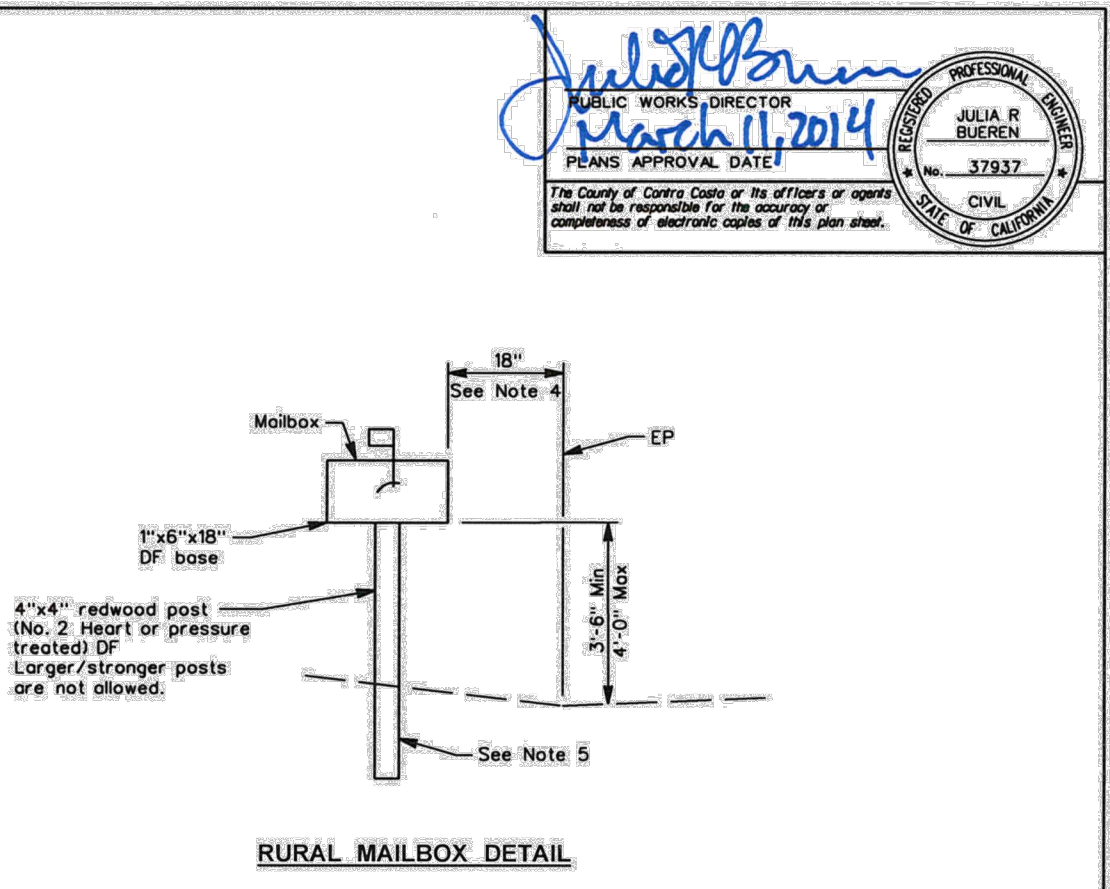
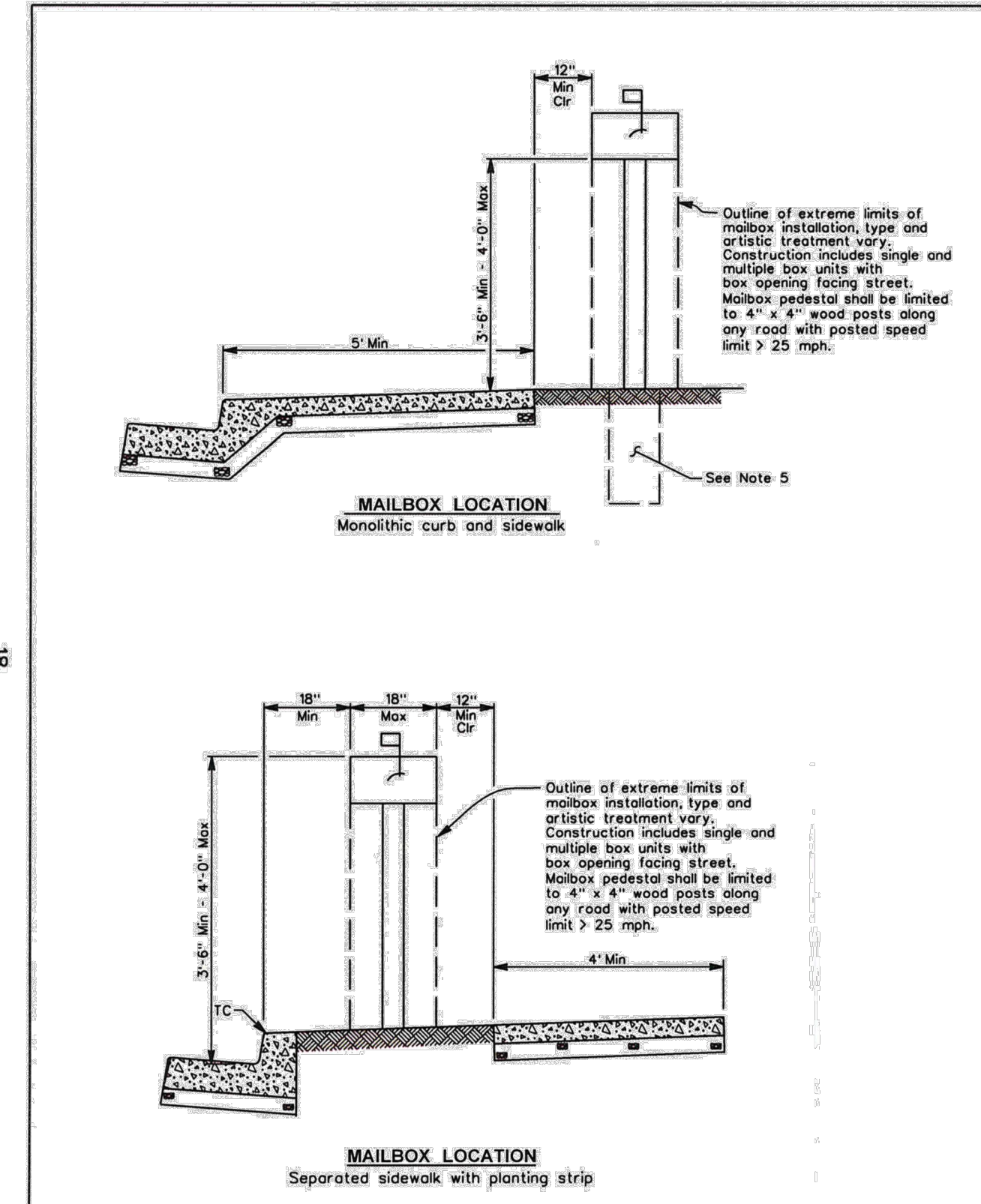
COUNTY OF CONTRA COSTA PUBLIC WORKS DEPARTMENT STANDARD PLAN

STREET SURVEY MONUMENT

SCALE: NO SCALE DATE: 3/14

DRAWN BY: L. COSTA PLAN NO: CA40

CHECKED BY: R. Ziemmer



- NOTES:
- Distances are established by Postal regulations and may vary depending on jurisdiction. Check with local Post Office for current regulations.
 - Encroachment permit is required if mailbox is to be installed in existing sidewalk, or if installation requires modification of dimensions shown on this plan.
 - See Standard Plan CA70 & CA71 for sidewalk and curb details.
 - Where AC dike or curb is placed at edge of pavement, the minimum distance is measured from the face of curb or dike.
 - Post depth shall be as required to adequately support mailbox to be installed. Minimum 2' depth with compacted soil backfill, no PCC backfill.

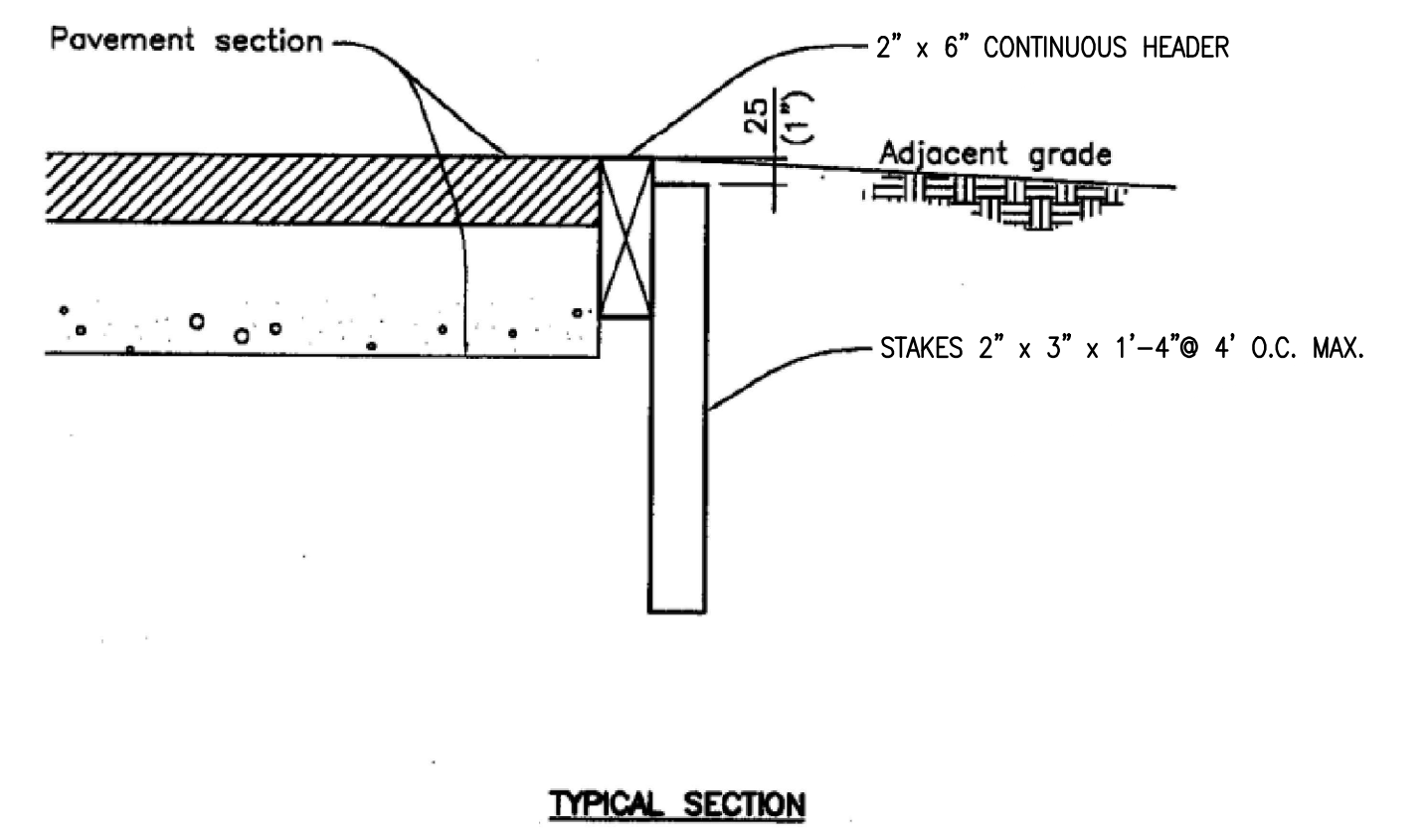
COUNTY OF CONTRA COSTA PUBLIC WORKS DEPARTMENT STANDARD PLAN

MAILBOX DETAILS

SCALE: NO SCALE DATE: 3/14

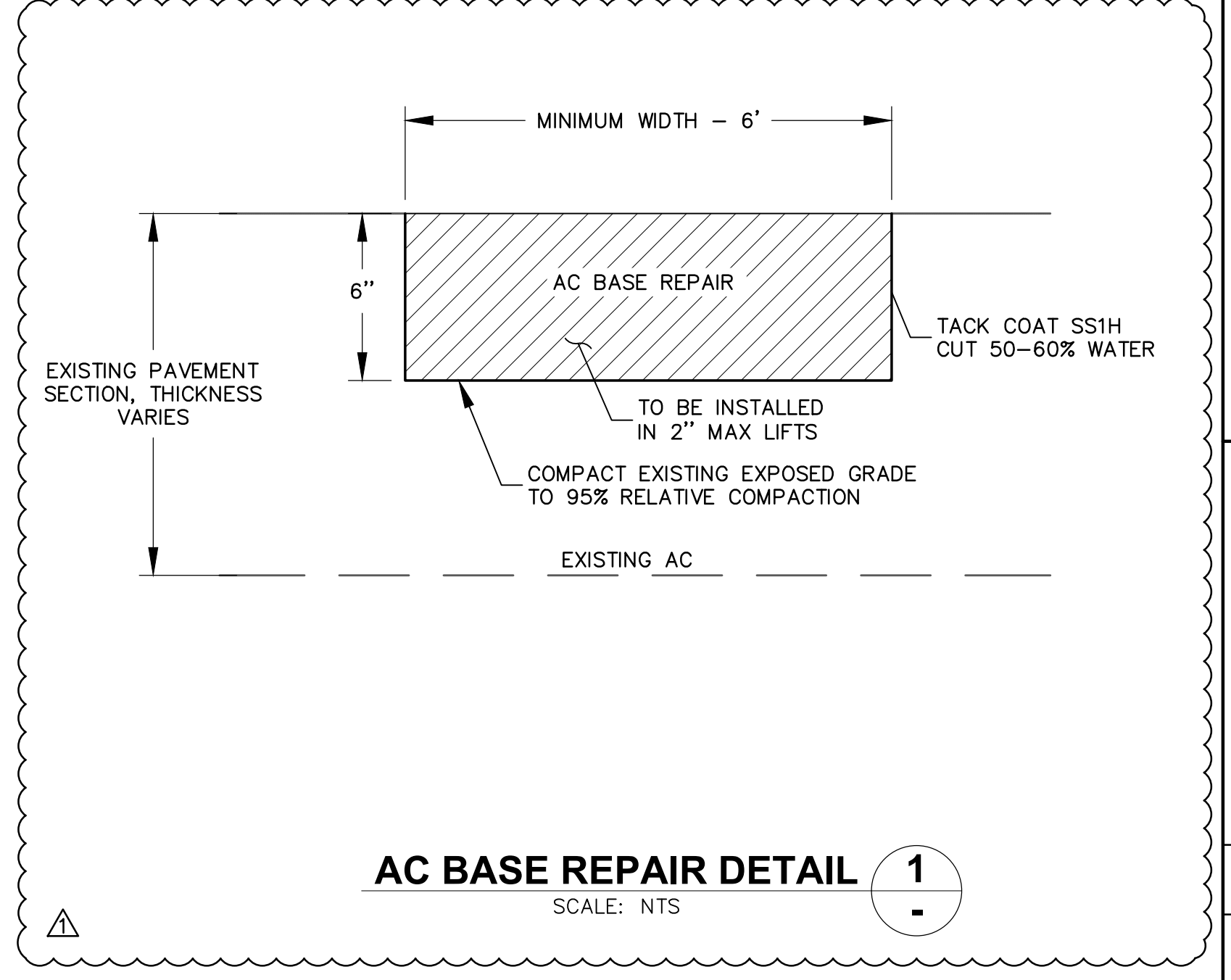
DRAWN BY: H. HUSSEY PLAN NO: CA90

CHECKED BY: W. HOLLINGSWORTH



- NOTES:
- INSTALL AT ALL LOCATIONS WHERE AC PAVEMENT IS CONSTRUCTED ADJACENT TO DIRT GRAD. REMOVE HEADER BOARD WHEN NO LONGER REQUIRED DURING STAGE 2 PAVING OPERATIONS.
 - SPLICE BOARDS SHALL BE INSTALLED ON THE GRADE SIDE AND SHALL BE MINIMUM 2"x6"x3'.
 - HEADERS, SPLICE BOARDS, AND STAKES SHALL BE REDWOOD OR PRESERVATIVE TREATED DOUGLAS FIR.

REDWOOD HEADER BOARD ALONG ASPHALT PAVEMENT DURING CONSTRUCTION STAGING



AC BASE REPAIR DETAIL 1

SCALE: NTS

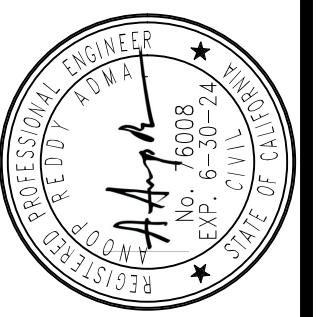
STD. PLAN CA40

CIP 247 - EAST CYPRESS ROAD WIDENING PROJECT FROM KNIGHTSEN AVENUE TO JERSEY ISLAND ROAD

| NO. | REVISIONS | APPENDIX # |
|-----|----------------|---------------|
| 1 | DATE: 09/30/22 | SCALE: NTS |
| 2 | DESIGN: AA | DRAWN: ES |
| 3 | APPROVED: DL | JOB NO: 21053 |

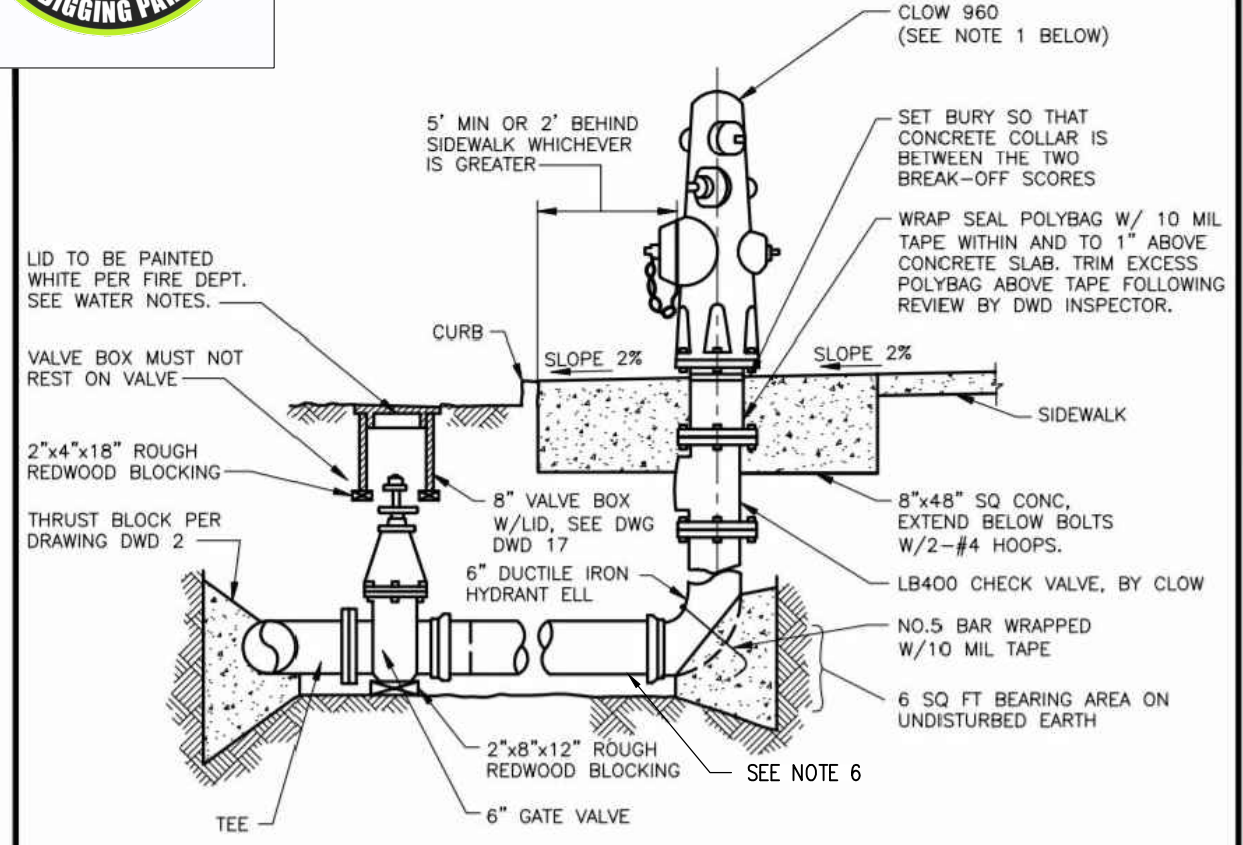
DRAWING NUMBER: G1.6 7 OF 68

Bellecci Intelligent Infrastructure



OAKLEY CALIFORNIA

CITY OF OAKLEY CONTRA COSTA COUNTY CALIFORNIA



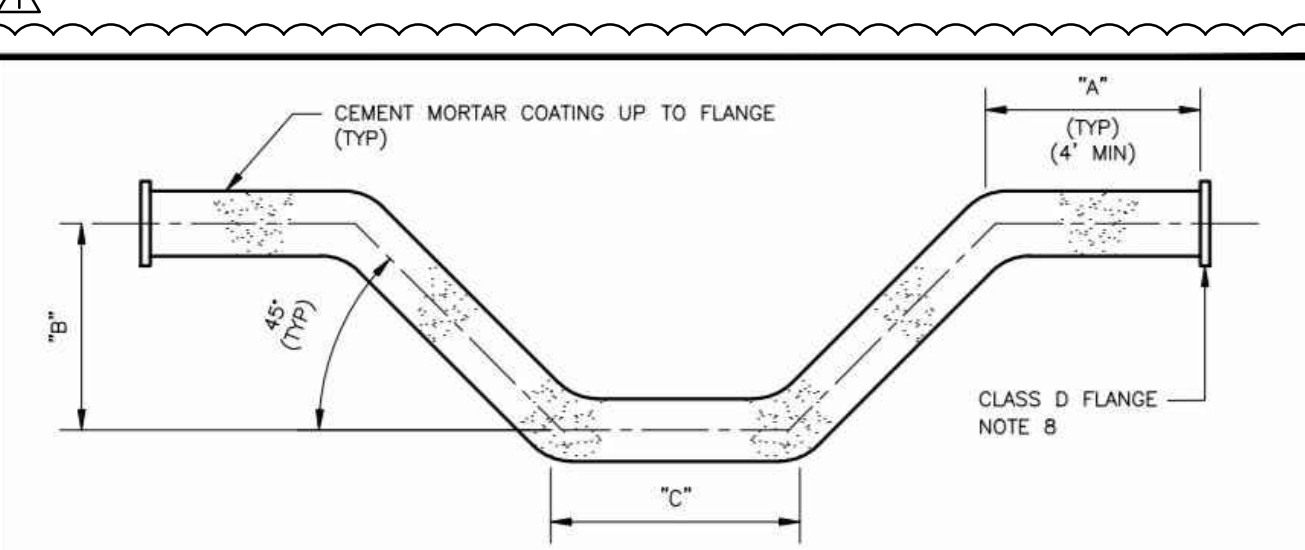
NOTES:

- FIRE HYDRANT AND HYDRANT PIPING CONFIGURATION SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL FIRE PROTECTION DISTRICT HAVING JURISDICTION.
- WHEN NO CURB IS PRESENT CONSULT DISTRICT FOR LOCATION OF HYDRANT.
- USE MEGALUG RESTRAINT WHERE MJ FITTINGS ARE USED.
- APPLY NSF 61- APPROVED LUBRICANT TO HYDRANT OUTLETS THREADS.
- REFER TO SPEC SECTIONS 03304 & 15100.
- CONTRACTOR SHALL INSTALL IRRIGATION SERVICE OFF OF FH #2 WATER LATERAL.

| ITEM | PVC PLASTIC MAIN | DUCTILE IRON MAIN |
|-----------------|-------------------------|---------------------------------------|
| TEE | PUSH-ON x PUSH-ON x FLG | PUSH-ON x PUSH-ON x FLG MJ x MJ x FLG |
| 6" VALVE JOINTS | FLG x PUSH-ON | FLG x PUSH-ON FLG x MJ |
| PIPE TO HYD ELL | 6" PVC | 6" DIP |
| HYD DI BURY | PUSH-ON | PUSH-ON OR MJ |

DIABLO WATER DISTRICT STANDARD DRAWING
FIRE HYDRANT INSTALLATION

DESIGNED: WDB DRAWN: WKT APPROVED: WW DATE: JUNE, 2019 DWG. NO.: DWD 15

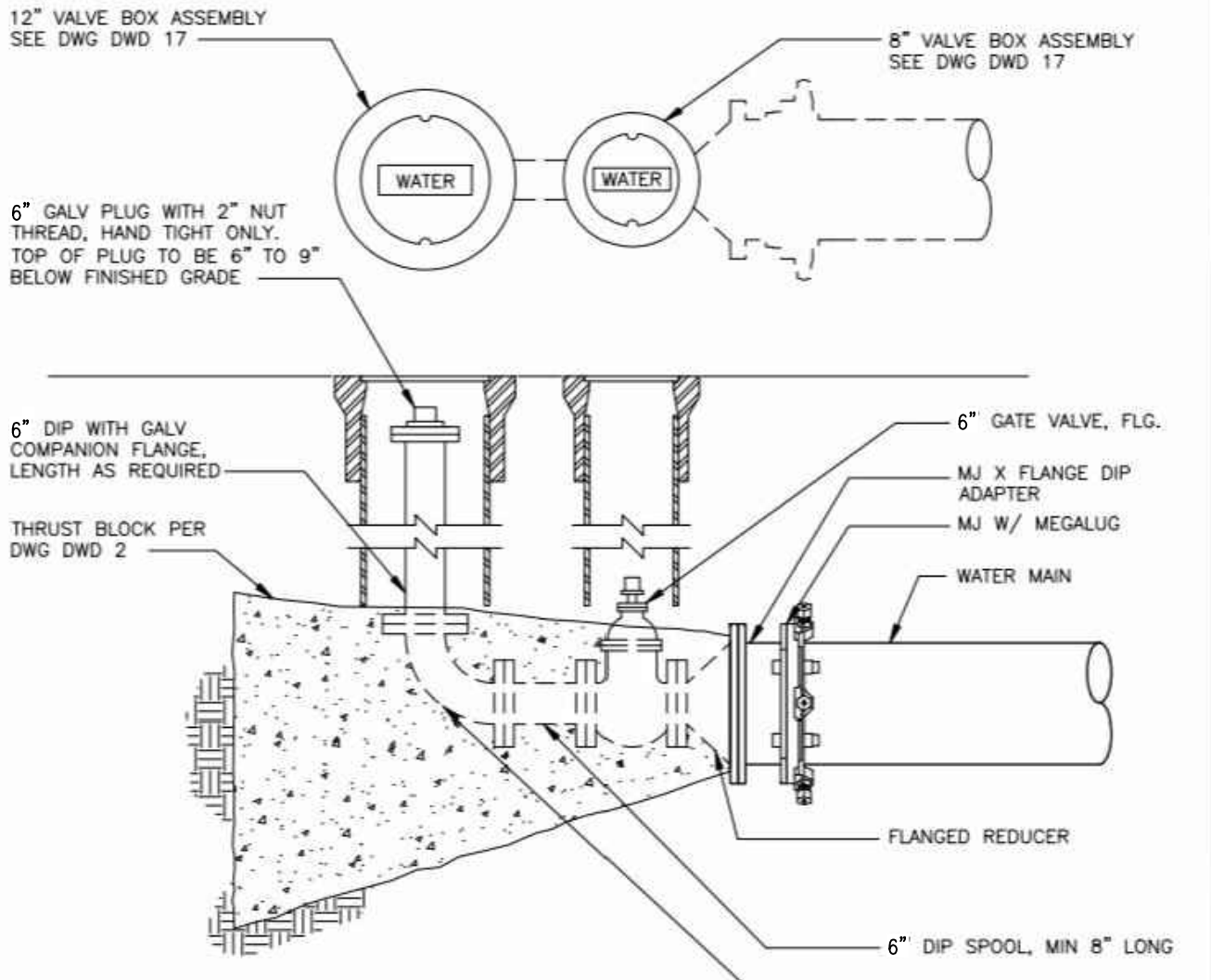


- NOTES:
- NOMINAL STEEL PIPE DIMENSIONS ON DRAWINGS REPRESENT THE MINIMUM PIPE INSIDE DIAMETER AFTER LINING.
 - STEEL PIPE SHALL CONFORM TO AWWA C200. LININGS AND COATINGS SHALL CONFORM TO AWWA C205. COATING ON FLANGED ENDS SHALL REACH EDGE OF FLANGE.
 - DOUBLE OFFSET TO BE FABRICATED BY WELDING USING FOUR 45° BUTT WELDING LONG RADIUS ELBOWS. MITRED ELBOWS CONFORMING TO AWWA C208 MAY BE USED ON 16" AND 18" OFFSETS.
 - "C" DIMENSIONS AS REQUIRED, 4'-0" MINIMUM LENGTH.
 - "A" AND "B" DIMENSIONS AS REQUIRED.
 - CEMENT MORTAR LINING SHALL BE SHOP APPLIED AND BE FINISHED SQUARE AND UNIFORM AT THE ENDS OF THE PIPE.
 - OFFSETS MAY BE FABRICATED IN PIECES TO AID INSTALLATION IN THE FIELD. SUCH PIECES TO BE JOINED WITH A WELDED 4" WIDE BY 0.25" THICK (MIN) STEEL BUTTSTRAP. BUTTSTRAP JOINTS TO BE COATED WITH TAPE AND BITUMEN BEFORE BACKFILLING. ALTERNATELY, PIECES MAY BE JOINED BY FLANGES. FLANGES TO BE COATED WITH BITUMEN & TAPE AFTER INSTALLATION.
 - FLANGE PATTERN TO MATCH CONNECTING FITTING. FLANGE TO PIPE WELD SHALL CONFORM TO AWWA C207. FLANGES SHALL BE EPOXY COATED.
 - REFER TO SPEC SECTIONS 02512 & 02675.
 - 1 1/2" COUPLING WITH CP BUSHING TO BE USED.

| NOMINAL PIPE SIZE (MIN ID AFTER LINING) | STANDARD PIPE OD TO ACHIEVE REQD MIN ID | TYP PIPE ID AFTER LINING OF STANDARD PIPE SIZES | PIPE MINIMUM WALL THICKNESS | CEMENT MORTAR LINING THICKNESS | CEMENT MORTAR COATING THICKNESS | "A" |
|---|---|---|-----------------------------|--------------------------------|---------------------------------|-------|
| 6" | 8.625" | 7.481" | 0.322" | 1/4" | 3/4" | 4'-0" |
| 8" | 10.75" | 9.520" | 0.365" | 1/4" | 3/4" | 4'-0" |
| 10" | 12.75" | 11.375" | 0.375" | 5/16" | 3/4" | 4'-0" |
| 12" | 14.0" | 12.625" | 0.375" | 5/16" | 3/4" | 4'-0" |
| 16" | 18.0" | 16.625" | 0.375" | 5/16" | 3/4" | 4'-0" |
| 18" | 20.0" | 18.625" | 0.375" | 5/16" | 3/4" | 4'-0" |
| 20" | 22.0" | 20.50" | 0.375" | 3/8" | 3/4" | 4'-0" |
| 24" | 26.0" | 24.50" | 0.375" | 3/8" | 3/4" | 4'-0" |

DIABLO WATER DISTRICT STANDARD DRAWING
DOUBLE OFFSET STEEL PIPE, CEMENT MORTAR LINED AND COATED, 6" TO 24"

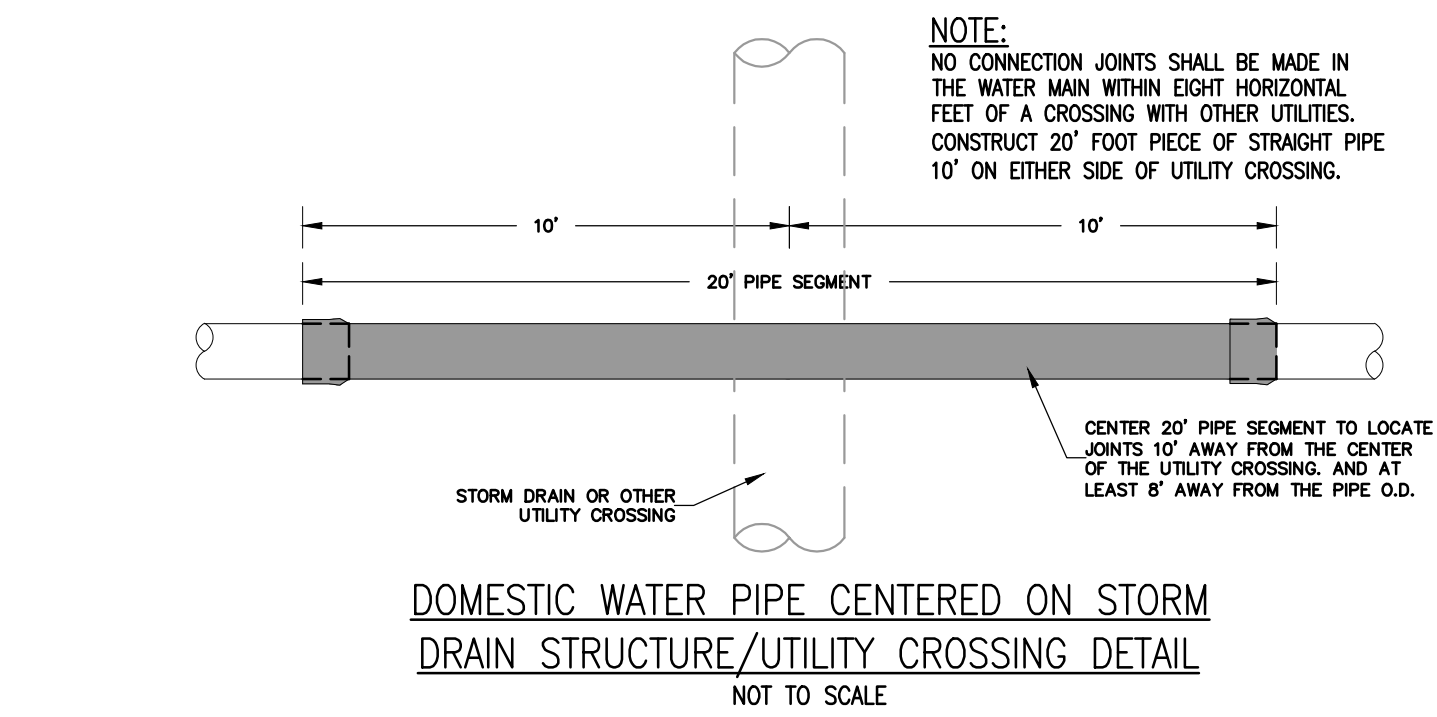
DESIGNED: WDB DRAWN: WKT APPROVED: WW DATE: JUNE, 2019 DWG. NO.: DWD 6



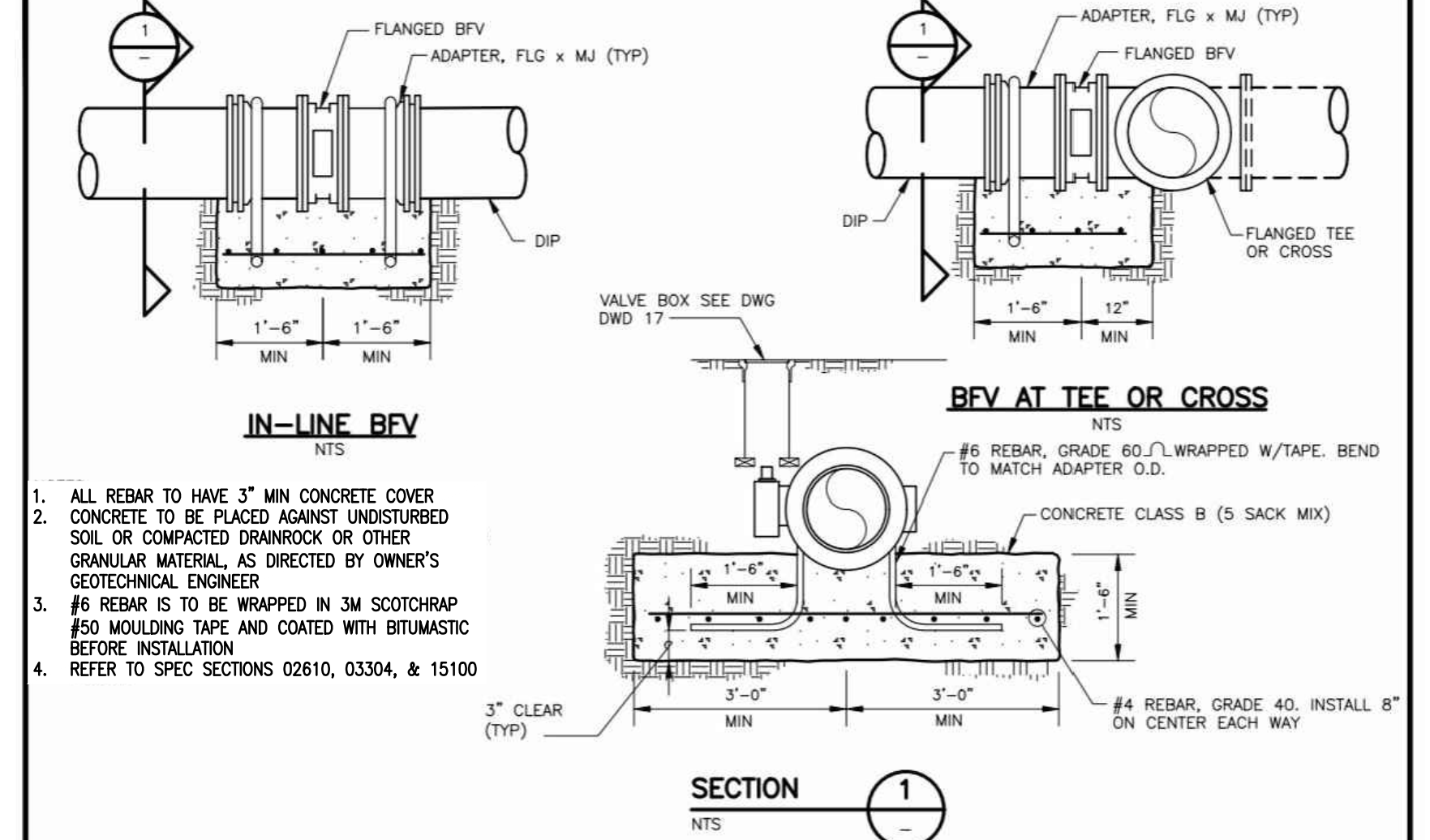
- NOTES:
- PIPING ASSEMBLY SHALL BE WRAPPED IN POLYETHYLENE PRIOR TO PLACING CONCRETE.
 - REFER TO SPEC SECTIONS 02610, 03304, 15100, & 16640.

DIABLO WATER DISTRICT STANDARD DRAWING
6" BLOWOFF ASSEMBLY

DESIGNED: WDB DRAWN: WKT APPROVED: WW DATE: JUNE, 2019 DWG. NO.: DWD 22



DOMESTIC WATER PIPE CENTERED ON STORM DRAIN STRUCTURE/UTILITY CROSSING DETAIL
NOT TO SCALE



DIABLO WATER DISTRICT STANDARD DRAWING
BUTTERFLY VALVE INSTALLATION, 16" TO 24"

DESIGNED: WDB DRAWN: WKT APPROVED: WW DATE: JUNE, 2019 DWG. NO.: DWD 19

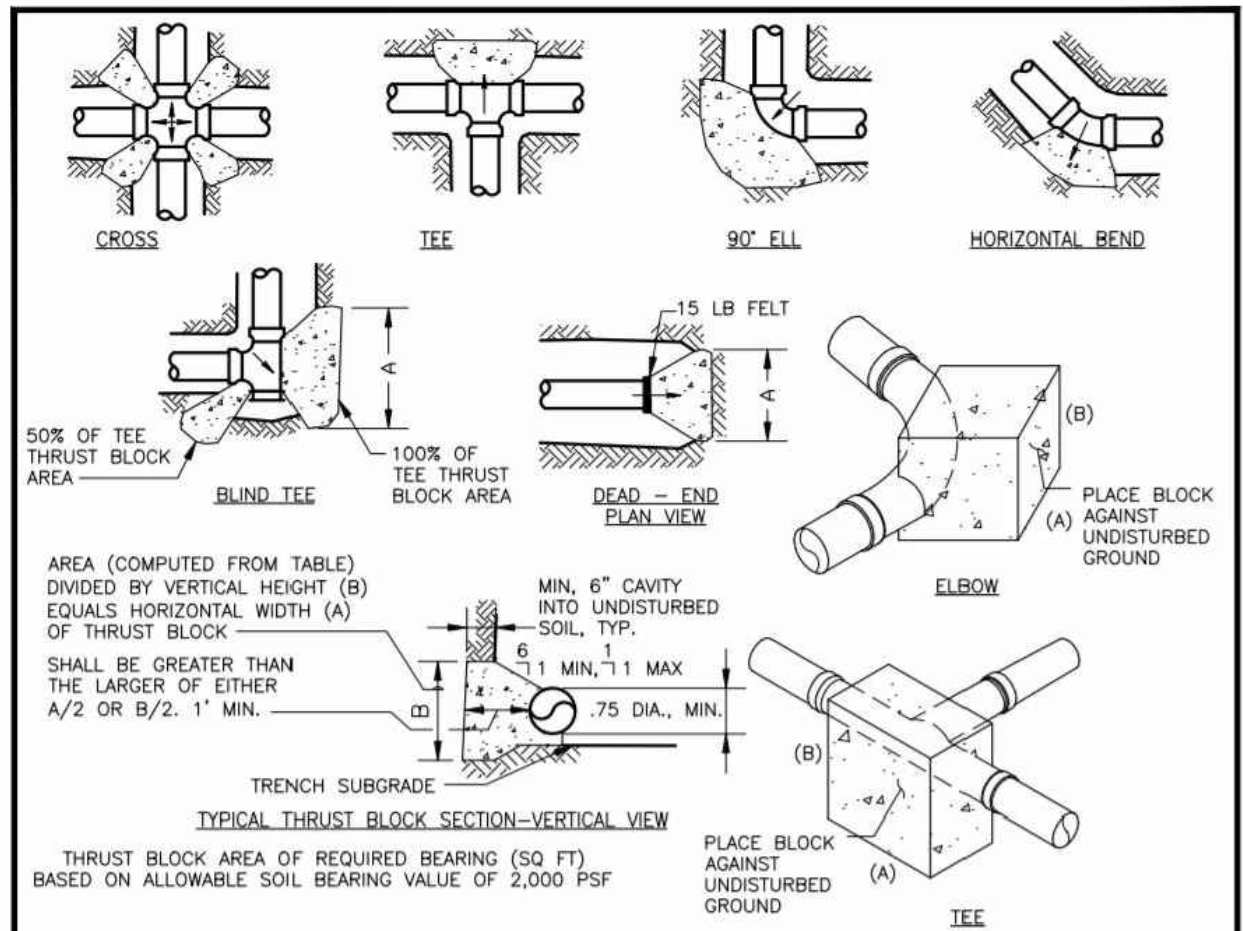
THRUST BLOCK TABLE

| 4' Cover | Nominal Diameter of Pipe (in.) | DIP Class 50 Outside Diameter of Pipe (in.) | Mean Depth from Surface to the plane of Resistance in feet (Centerline of a pipe or center of bearing area of a thrust block) (ft.) | Passive Equivalent Fluid Pressure (lbs per cu.ft.)* | Allowable Soil Bearing Capacity (lbs per sq.ft.) | Multiplier | Dead End, Tee, BO or Plug | Cross (ea block) | 90° Elbow | 45° Elbow & Wye | 22.5° |
|----------|--------------------------------|---|---|---|--|------------|---------------------------|------------------|-----------|-----------------|-------|
| | D | D' | H _c | EFP | SBC | | | | | | |
| | 24 | 25.8 | 5.08 | 300 | 1523 | 1.32 | 51.95 | 26.30 | 72.99 | 40.11 | 20.38 |
| | 20 | 21.6 | 4.90 | 300 | 1470 | 1.37 | 37.68 | 56.18 | 53.44 | 28.77 | 15.07 |
| | 18 | 19.5 | 4.81 | 300 | 1444 | 1.41 | 31.62 | 16.16 | 44.97 | 24.59 | 12.65 |
| | 12 | 13.2 | 4.55 | 300 | 1365 | 1.51 | 15.86 | 8.31 | 22.66 | 12.09 | 6.80 |
| | 8 | 9.05 | 4.38 | 300 | 1313 | 1.58 | 7.90 | 3.95 | 11.06 | 6.32 | 3.16 |
| | 6 | 6.9 | 4.29 | 300 | 1286 | 1.62 | 4.85 | 4.04 | 6.47 | 4.04 | 2.42 |

* Mains in roadway, hence upper 12" are also considered
Maximum Test Pressure = 150 psi (per DWD 2)

| 5' Cover | Nominal Diameter of Pipe (in.) | DIP Class 50 Outside Diameter of Pipe (in.) | Mean Depth from Surface to the plane of Resistance in feet (Centerline of a pipe or center of bearing area of a thrust block) (ft.) | Passive Equivalent Fluid Pressure (lbs per cu.ft.)* | Allowable Soil Bearing Capacity (lbs per sq.ft.) | Multiplier | Dead End, Tee, BO or Plug | Cross (ea block) | 90° Elbow | 45° Elbow & Wye | 22.5° |
|----------|--------------------------------|---|---|---|--|------------|---------------------------|------------------|-----------|-----------------|-------|
| | D | D' | H _c | EFP | SBC | | | | | | |
| | 24 | 25.8 | 6.08 | 300 | 1823 | 1.12 | 44.13 | 22.34 | 62.00 | 34.07 | 17.32 |
| | 20 | 21.6 | 5.90 | 300 | 1770 | 1.15 | 31.67 | 47.22 | 44.92 | 24.19 | 12.67 |
| | 18 | 19.5 | 5.81 | 300 | 1744 | 1.17 | 26.31 | 13.44 | 37.41 | 20.46 | 10.52 |
| | 12 | 13.2 | 5.55 | 300 | 1665 | 1.22 | 12.82 | 6.72 | 18.32 | 9.77 | 5.49 |
| | 8 | 9.05 | 5.38 | 300 | 1613 | 1.26 | 6.28 | 3.14 | 8.79 | 5.02 | 2.51 |
| | 6 | 6.9 | 5.29 | 300 | 1586 | 1.27 | 3.82 | 3.18 | 5.09 | 3.18 | 1.91 |

* Mains in roadway, hence upper 12" are also considered
Maximum Test Pressure = 150 psi (per DWD 2)



SEE THRUST BLOCK TABLE TO THE LEFT

| PIPE SIZE | DEAD END, TEE, BO OR PLUG | CROSS (EA BLOCK) | 90° ELBOW | 45° ELBOW & WYE | 22.5° ELBOW |
|-----------|---------------------------|------------------|-----------|-----------------|-------------|
| 4" | 1.5 | 1.0 | 2.0 | 1.5 | 1.0 |
| 6" | 3.0 | 2.5 | 4.0 | 2.5 | 1.5 |
| 8" | 5.0 | 2.5 | 7.0 | 4.0 | 2.0 |
| 10" | 7.5 | 4.0 | 10.5 | 6.0 | 3.0 |
| 12" | 10.5 | 5.5 | 15.0 | 8.0 | 4.5 |
| 14" | 14.0 | 7.0 | 20.0 | 11.0 | 5.5 |
| 16" | 18.0 | 9.0 | 25.5 | 14.0 | 7.0 |
| 18" | 22.5 | 11.5 | 32.0 | 17.5 | 9.0 |
| 20" | 27.5 | 14.0 | 39.0 | 21.0 | 11.0 |
| 24" | 39.5 | 20.0 | 55.5 | 30.5 | 15.5 |

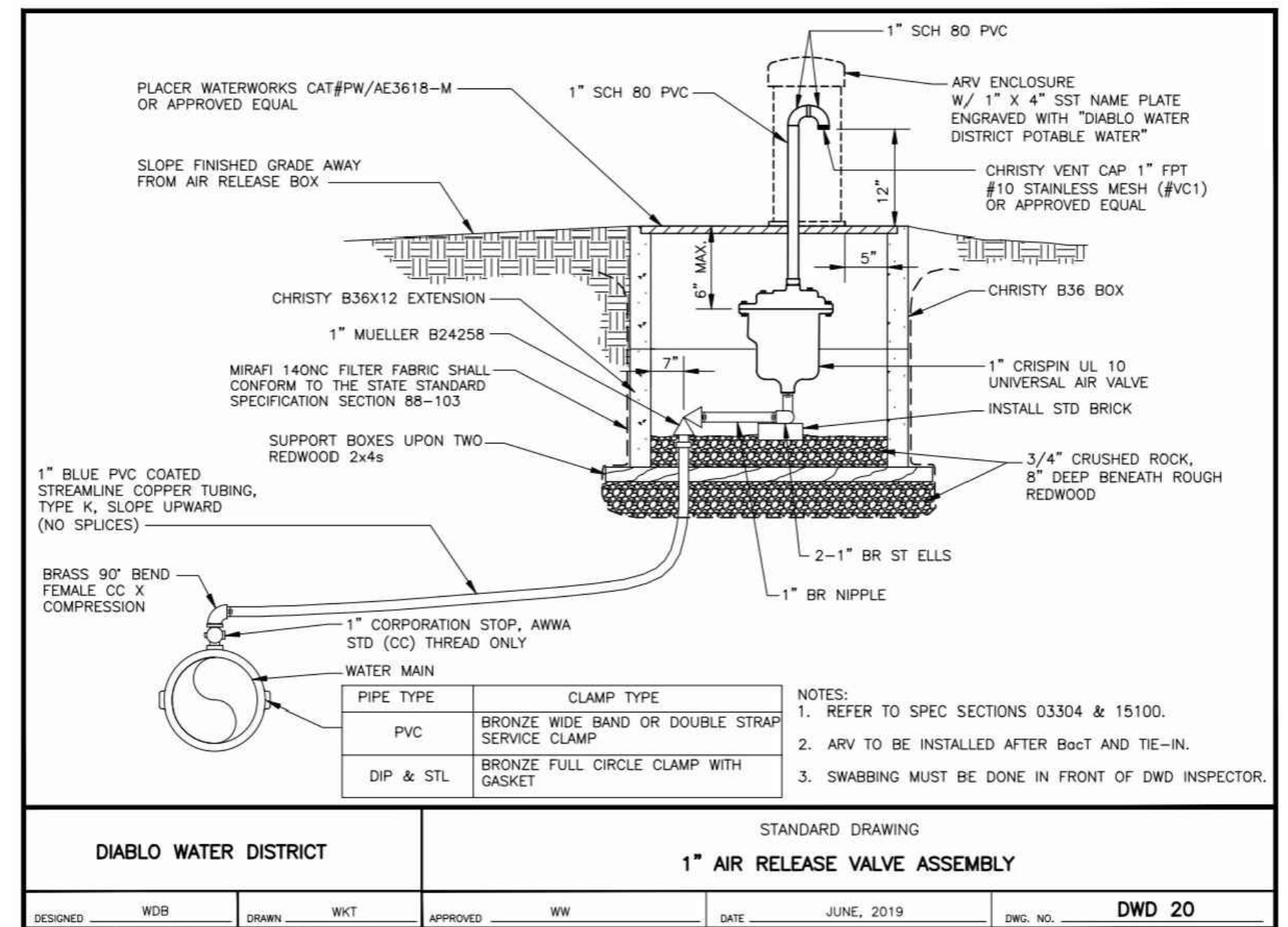
MULTIPLIERS FOR THRUST BLOCK AREAS

| ACTUAL SOIL BEARING VALUE | MULTIPLIER |
|---------------------------|------------|
| 1,000 PSF | 2.0 |
| 1,500 PSF | 1.33 |
| 2,000 PSF | 1.0 |
| 2,500 PSF | 0.8 |
| 3,000 PSF | 0.67 |

EXAMPLE: ACTUAL SOIL BEARING VALUE = 1,000 PSF FOR 8" BLOW OFF
REQUIRED AREA IS: (2.0)(5.0 SQ FT) = 10.0 SQ FT

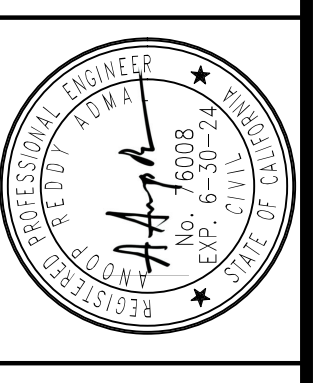
DIABLO WATER DISTRICT STANDARD DRAWING
CONCRETE THRUST BLOCKS

DESIGNED: WDB DRAWN: WKT APPROVED: WW DATE: JUNE, 2019 DWG. NO.: DWD 2



DIABLO WATER DISTRICT STANDARD DRAWING
1" AIR RELEASE VALVE ASSEMBLY

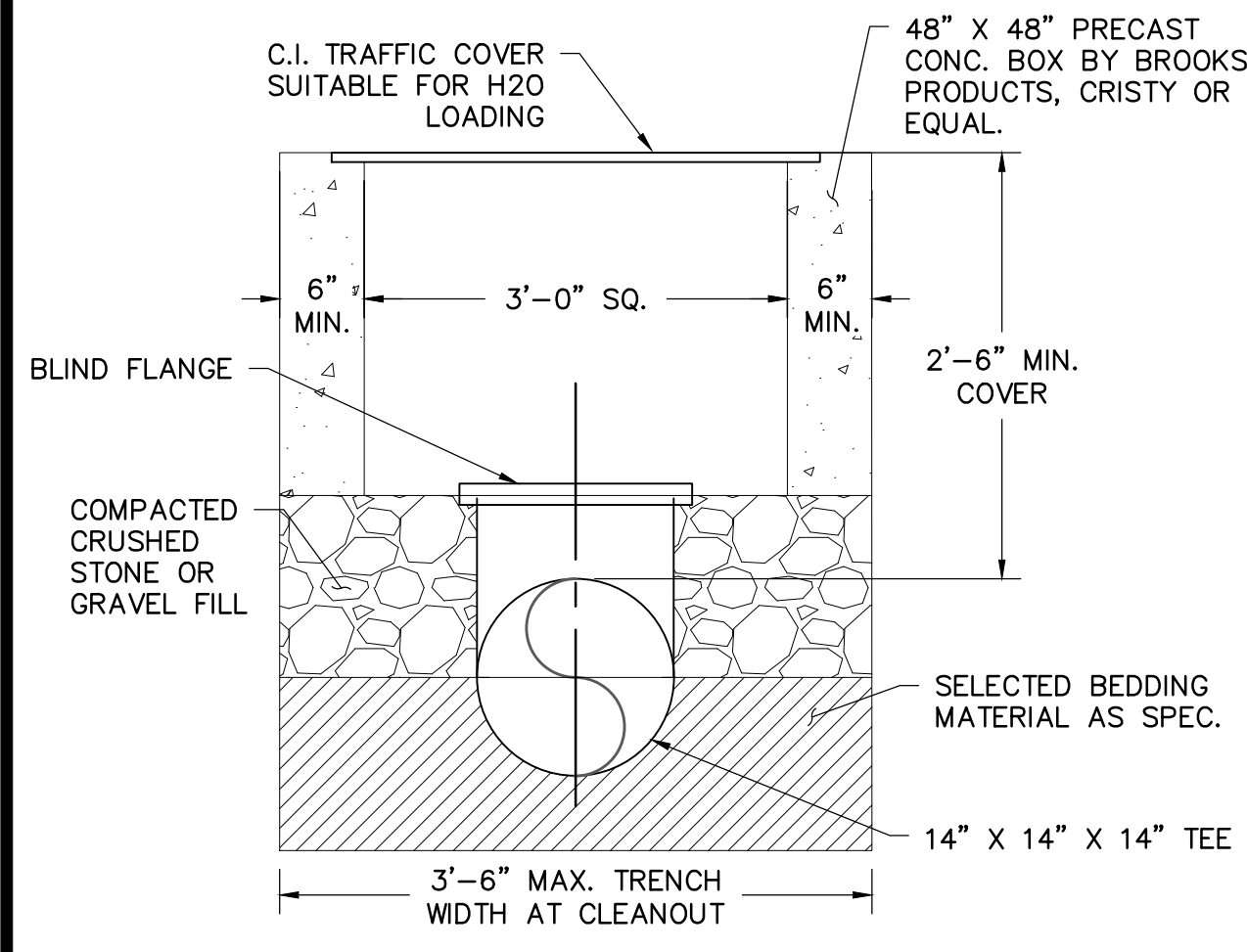
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CIP 247 - EAST CYPRESS ROAD WIDENING PROJECT
FROM KNIGHTSEN AVENUE TO JERSEY ISLAND ROAD

CITY OF OAKLEY
CONTRA COSTA COUNTY
CALIFORNIA

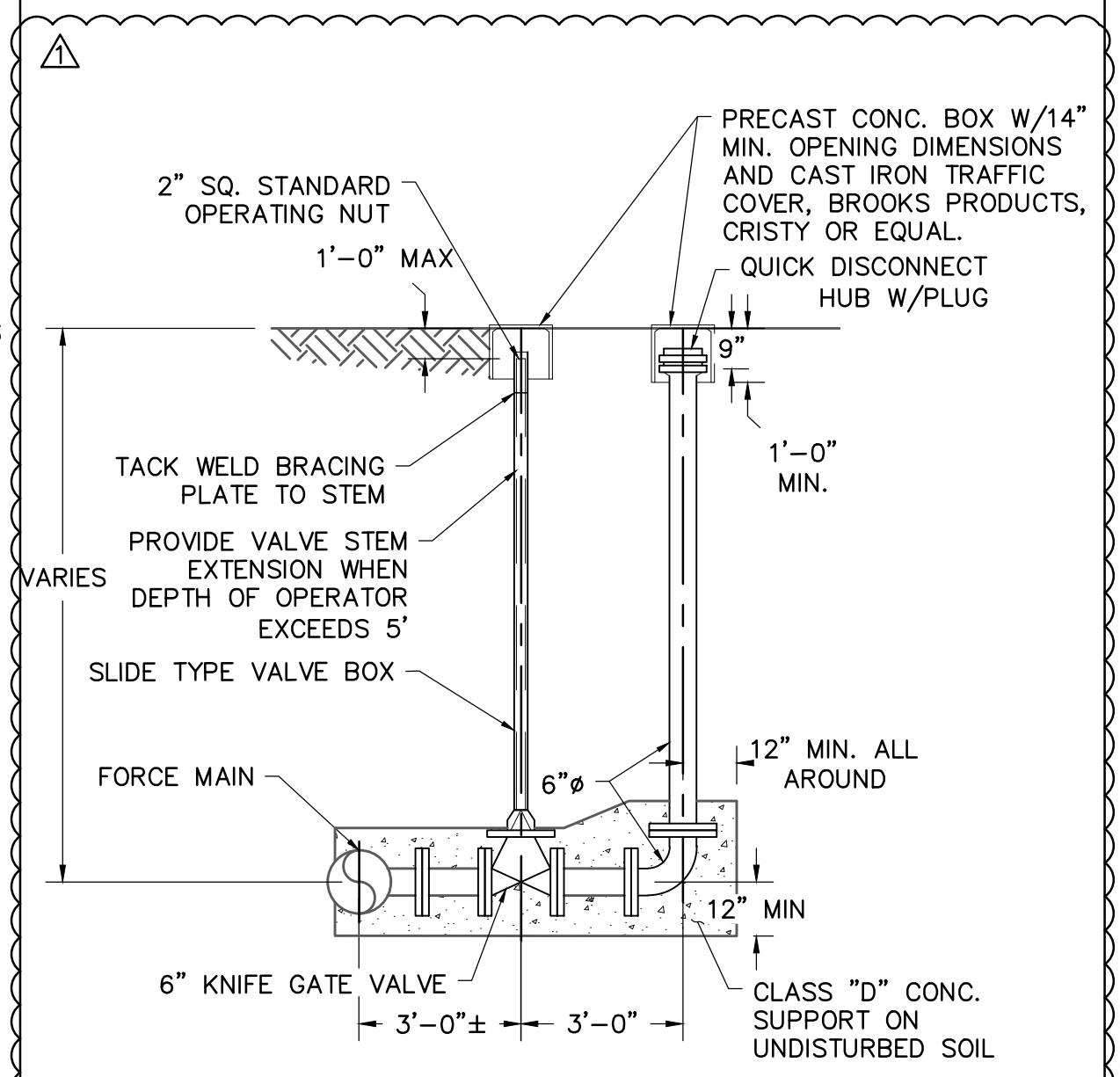
| NO. | REVISIONS | APPENDIX #1 |
|----------------|---------------|--------------|
| DATE: 09/30/22 | SCALE: NTS | DESIGN: AA |
| | DRAWN: ES | APPROVED: DL |
| | JOB NO: 21063 | |



NOTE:
1. TO BE LOCATED AS SHOWN ON THE PLANS.

FORCE MAIN CLEANOUT
SCALE: NTS

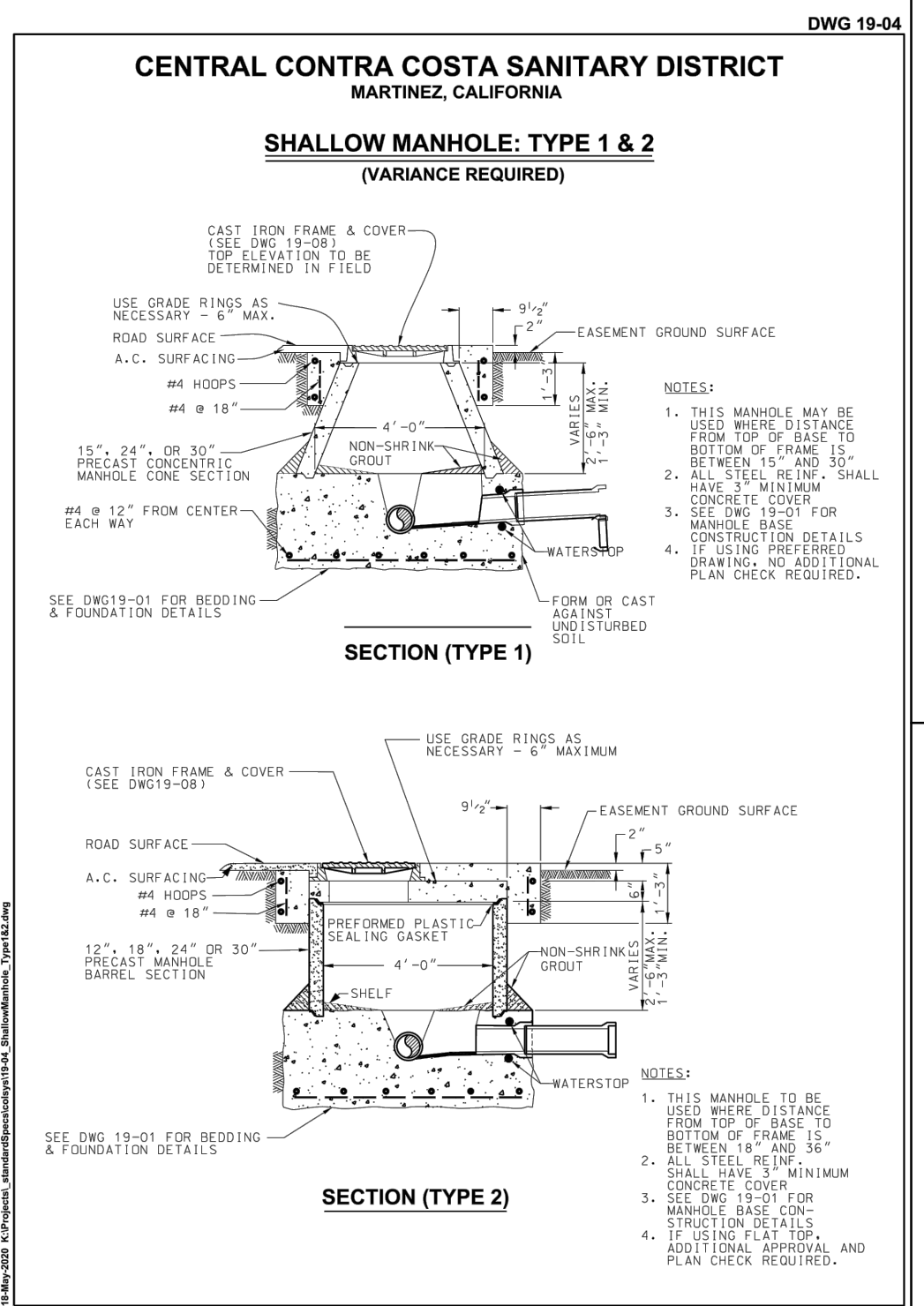
6



BLOWOFF NOTES:
1. TO BE LOCATED AT LOW-POINTS ON FORCE MAIN AS SHOWN ON PLANS.

BLOWOFF DETAIL
SCALE: NTS

5

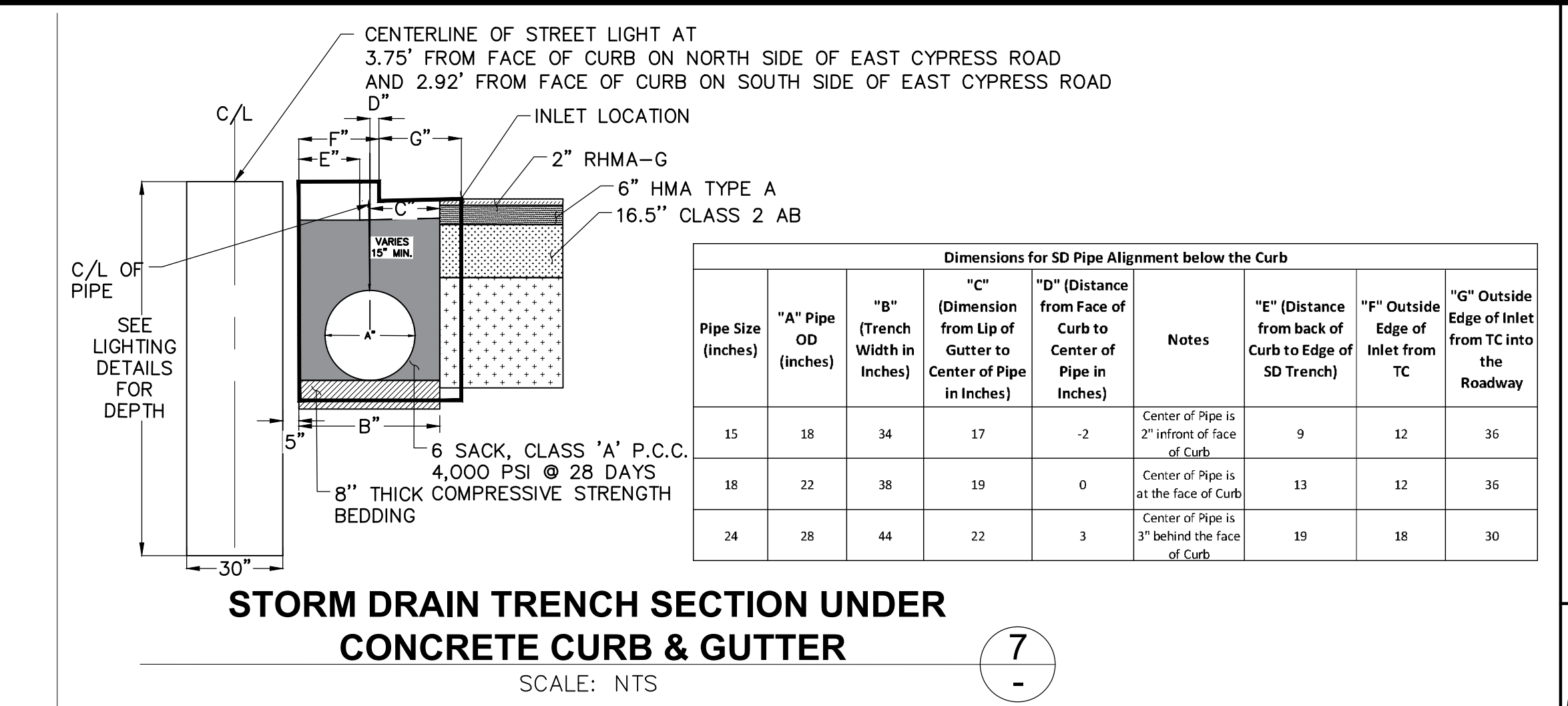


**CENTRAL CONTRA COSTA SANITARY DISTRICT
MARTINEZ, CALIFORNIA
SHALLOW MANHOLE: TYPE 1 & 2
(VARIANCE REQUIRED)**

SECTION (TYPE 1)

SECTION (TYPE 2)

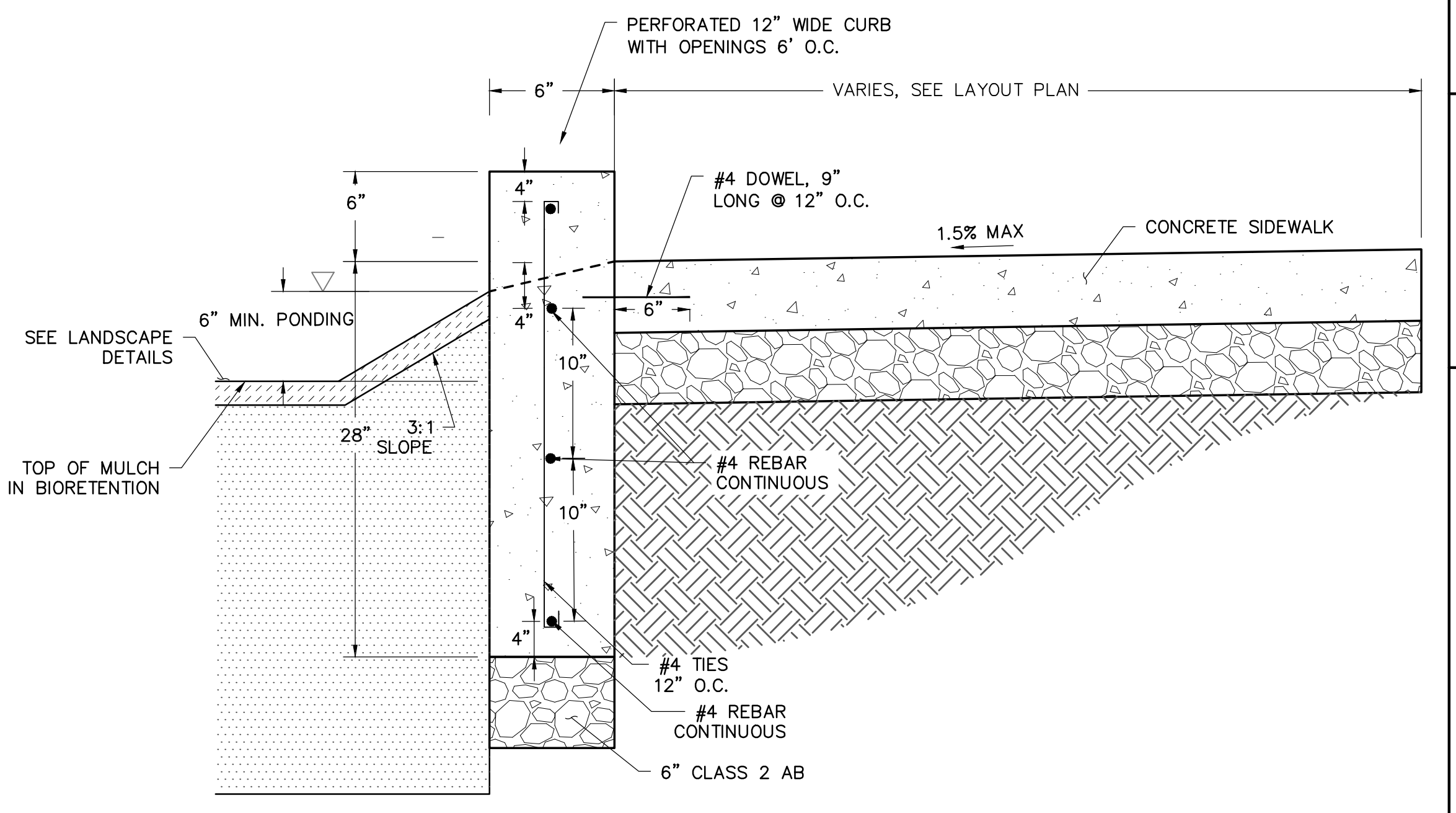
DWG 19-04



**STORM DRAIN TRENCH SECTION UNDER
CONCRETE CURB & GUTTER**
SCALE: NTS

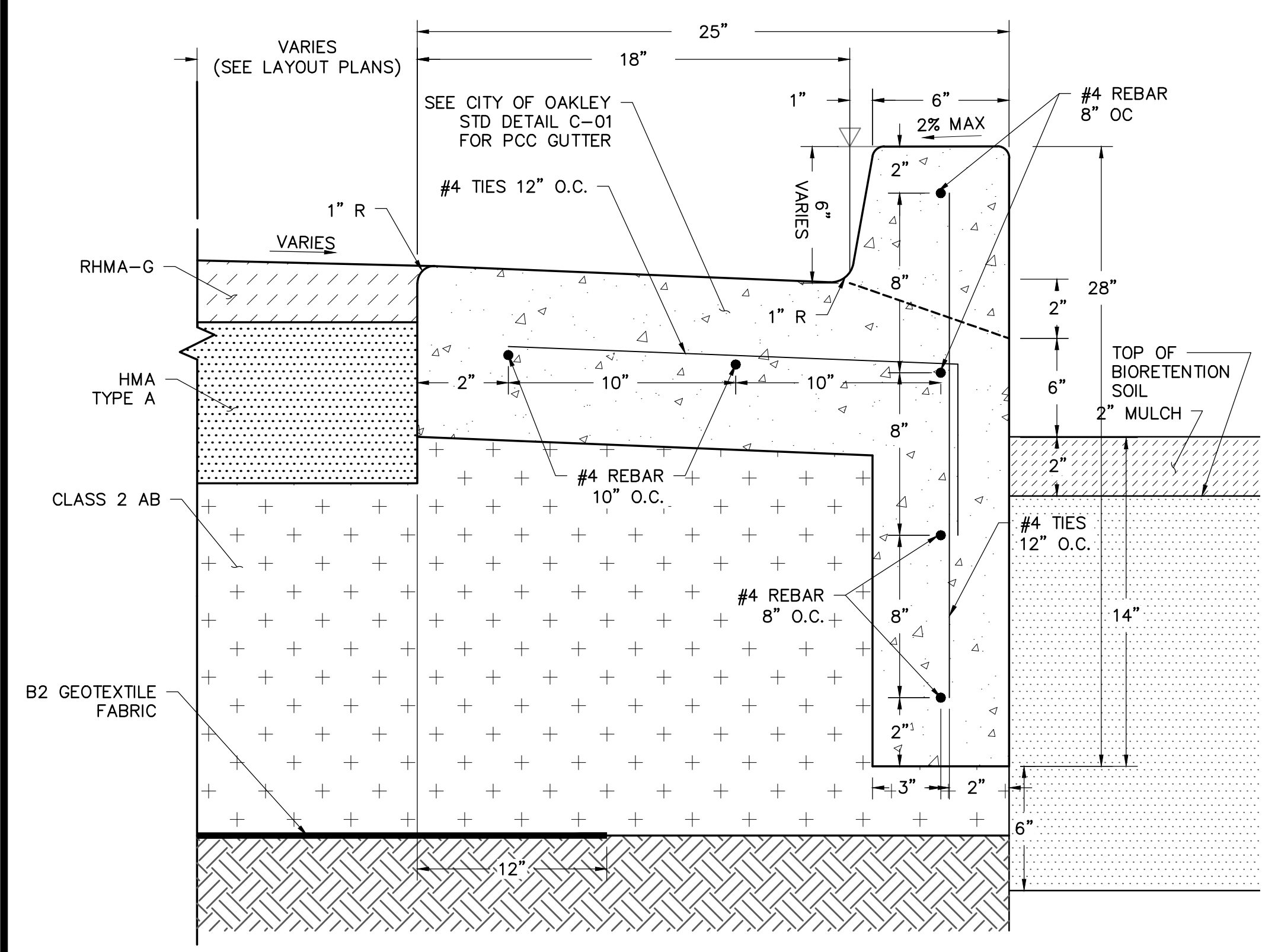
7

| Pipe Size (inches) | "A" Pipe OD (inches) | "B" (Trench Width in inches) | "C" (Dimension from Lip of Gutter to Center of Pipe in inches) | "D" (Distance from Face of Curb to Center of Pipe in inches) | Notes | "E" (Distance from back of Curb to Edge of SD Trench) | "F" Outside Edge of Inlet from TC | "G" Outside Edge of Inlet from TC into the Roadway |
|--------------------|----------------------|------------------------------|--|--|---|---|-----------------------------------|--|
| 15 | 18 | 34 | 17 | -2 | Center of Pipe is 2" in front of face of Curb | 9 | 12 | 36 |
| 18 | 22 | 38 | 19 | 0 | Center of Pipe is at the face of Curb | 13 | 12 | 36 |
| 24 | 28 | 44 | 22 | 3 | Center of Pipe is 3" behind the face of Curb | 19 | 18 | 30 |



SOUTH SIDE BIORETENTION VERTICAL CURB
SCALE: NTS

2

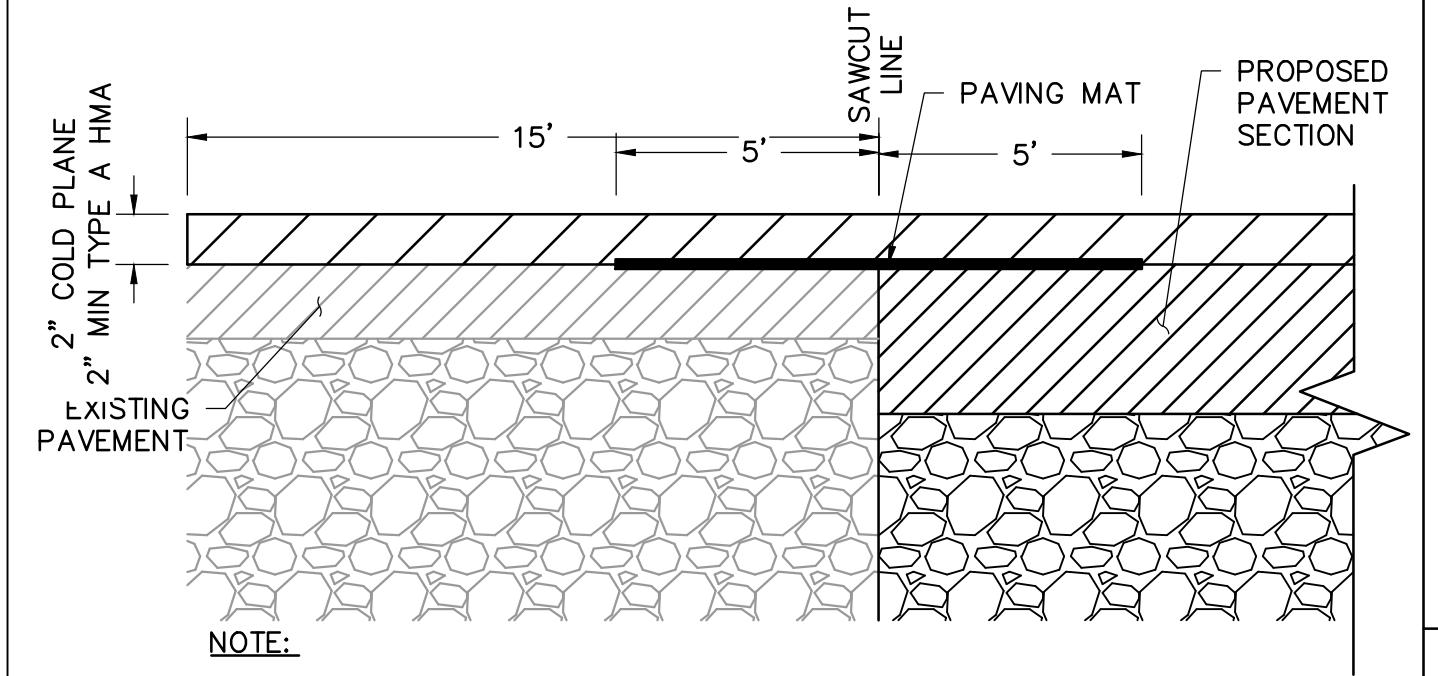


BIORETENTION CURB & GUTTER

STA 97+38 TO 98+58 (SOUTH SIDE)
STA 102+43 TO STA 103+18 (SOUTH SIDE)
STA 105+68 TO STA 107+00

SCALE: NTS

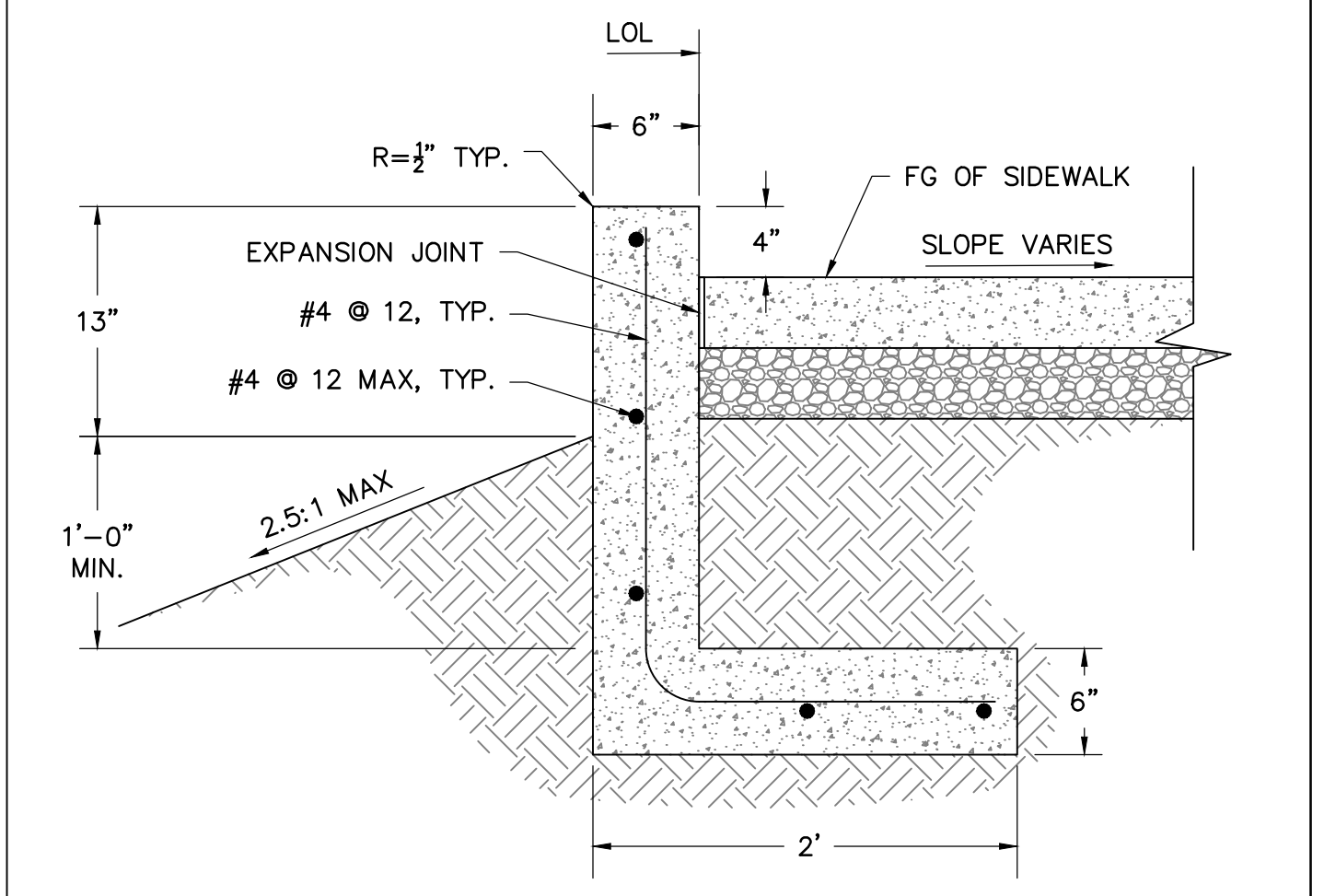
3



15' KEY CONFORM GRIND
SCALE: NTS

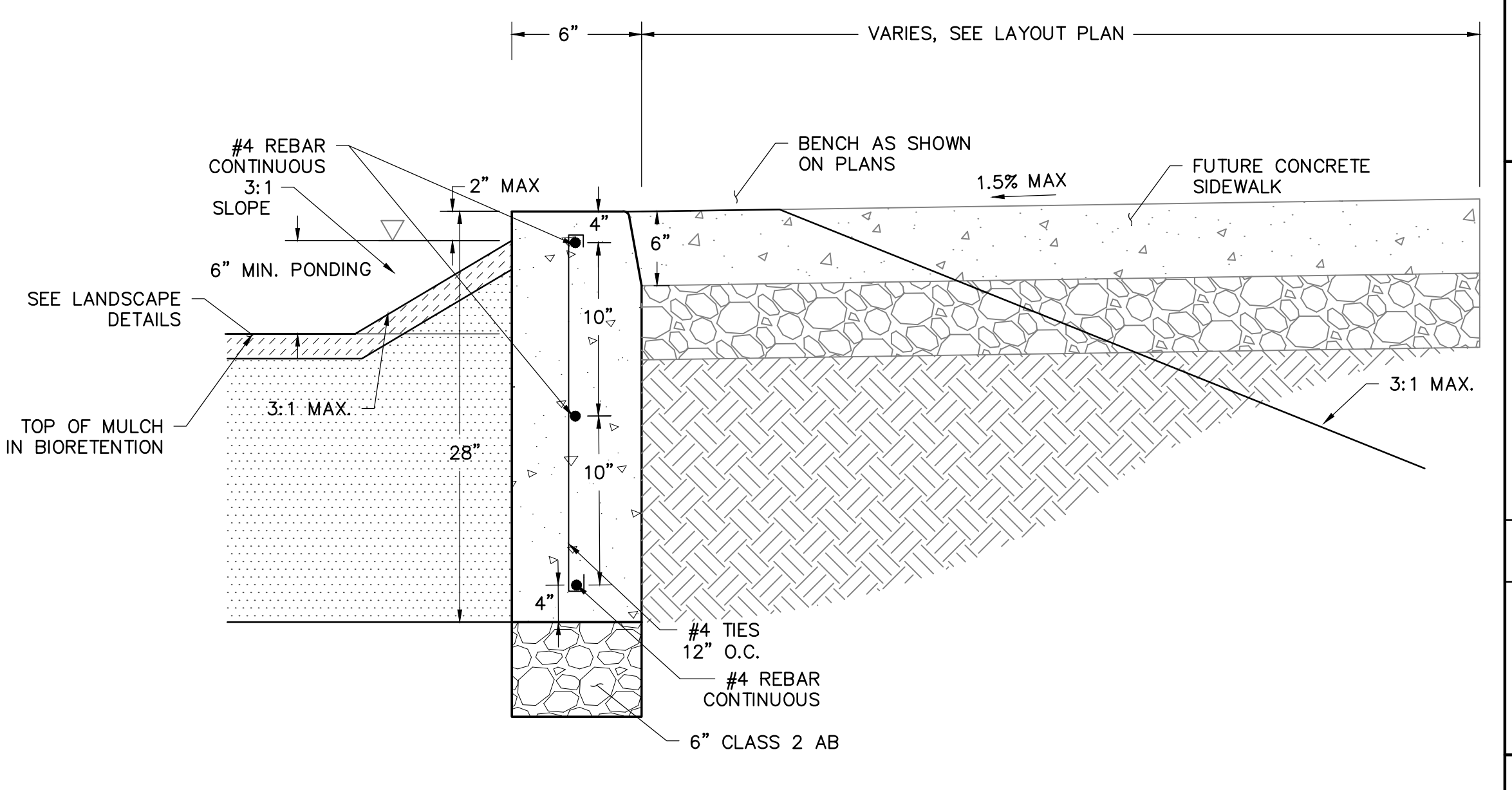
NOTE:
1. USE 15' CONFORM GRIND BETWEEN NEW AND EX. PAVEMENT TRANSITIONS

1



TYPICAL FILL WALL
SCALE: NTS

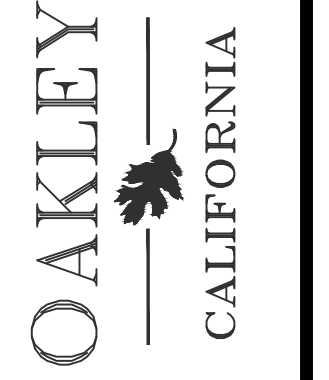
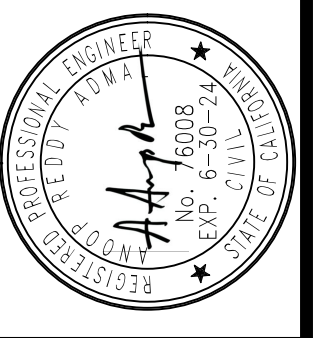
8



NORTH SIDE BIORETENTION VERTICAL CURB
SCALE: NTS

4

CIP 247 - EAST CYPRESS ROAD WIDENING PROJECT
FROM KNIGHTSEN AVENUE TO JERSEY ISLAND ROAD

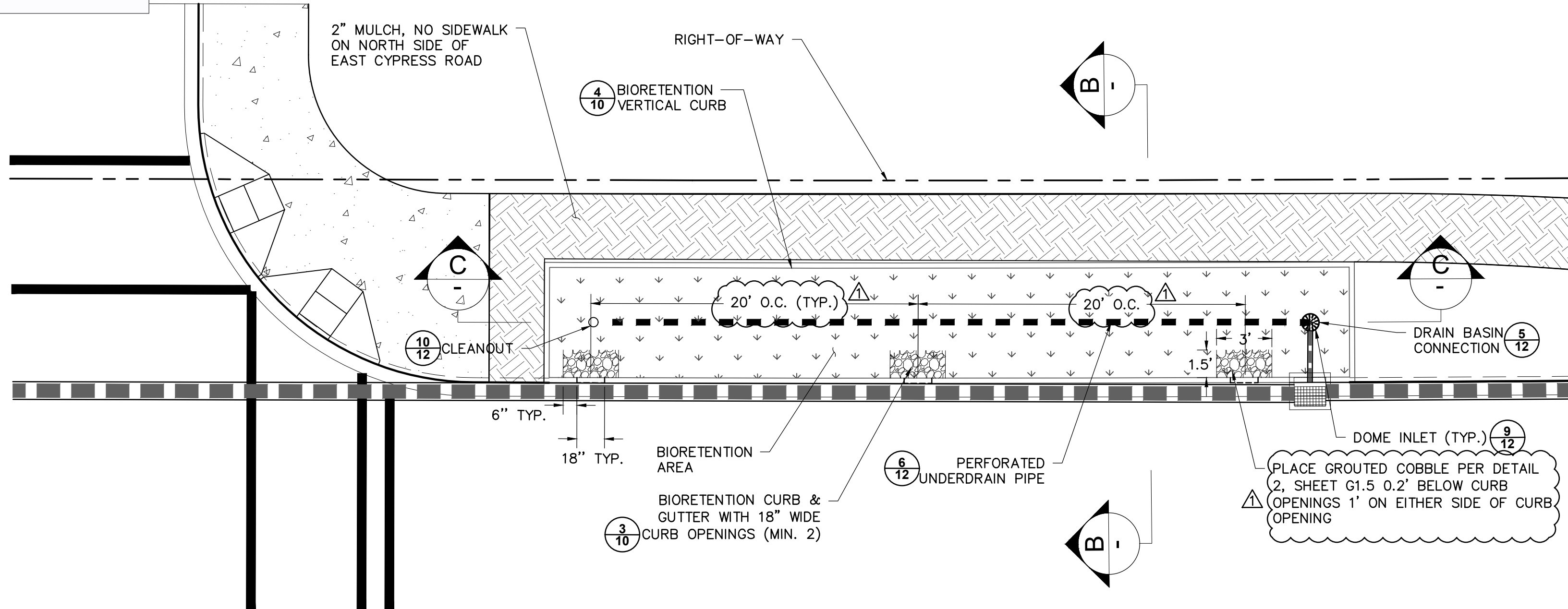


CIVIL DETAILS
CONTRA COSTA COUNTY
CITY OF OAKLEY

REVISIONS

| NO. | APPENDIX # | DATE | SCALE | DESIGN | DRAWN | APPROVED | JOB NO. |
|-----|------------|----------|-------|--------|-------|----------|---------|
| 1 | | 09/30/22 | NTS | AA | ES | DL | 21063 |

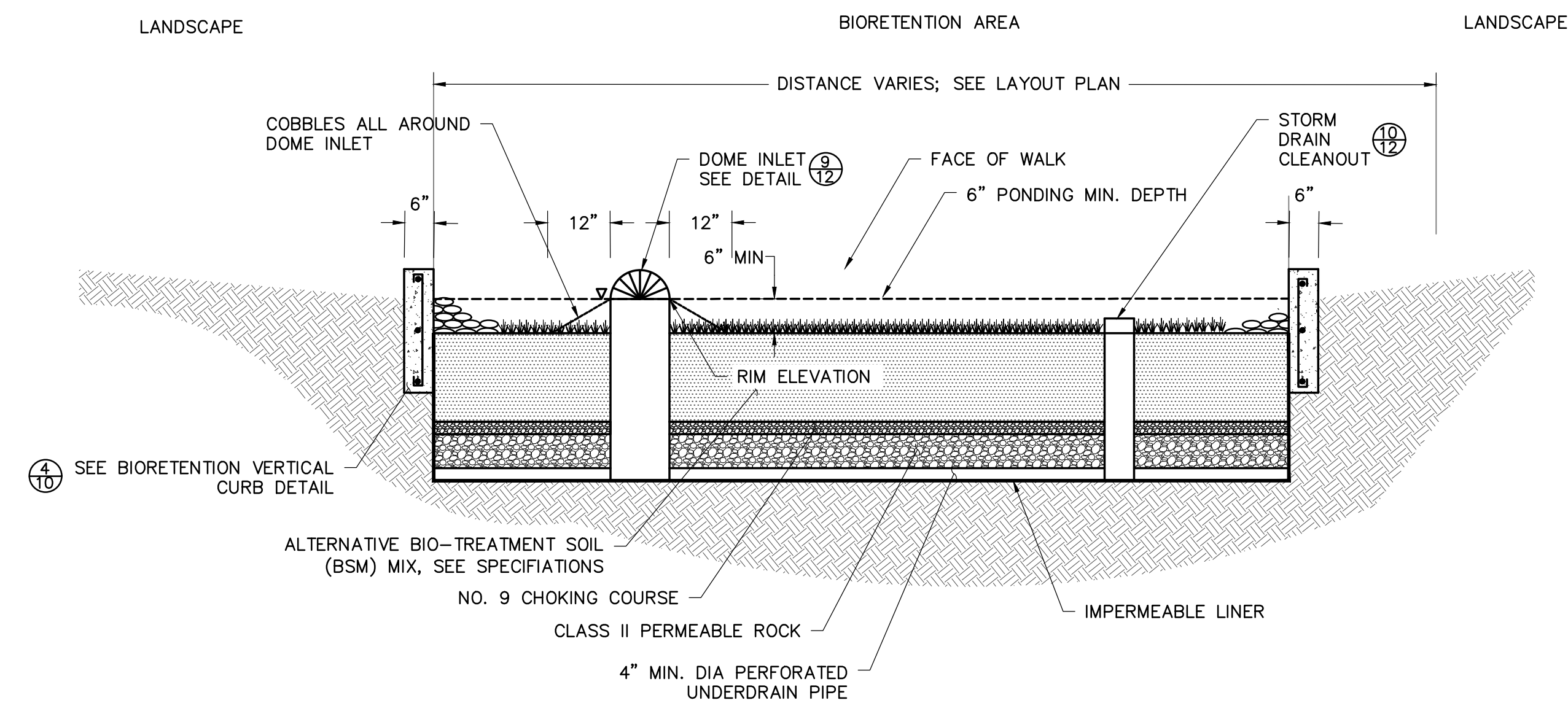
DRAWING NUMBER:
G1.9
10 OF 68



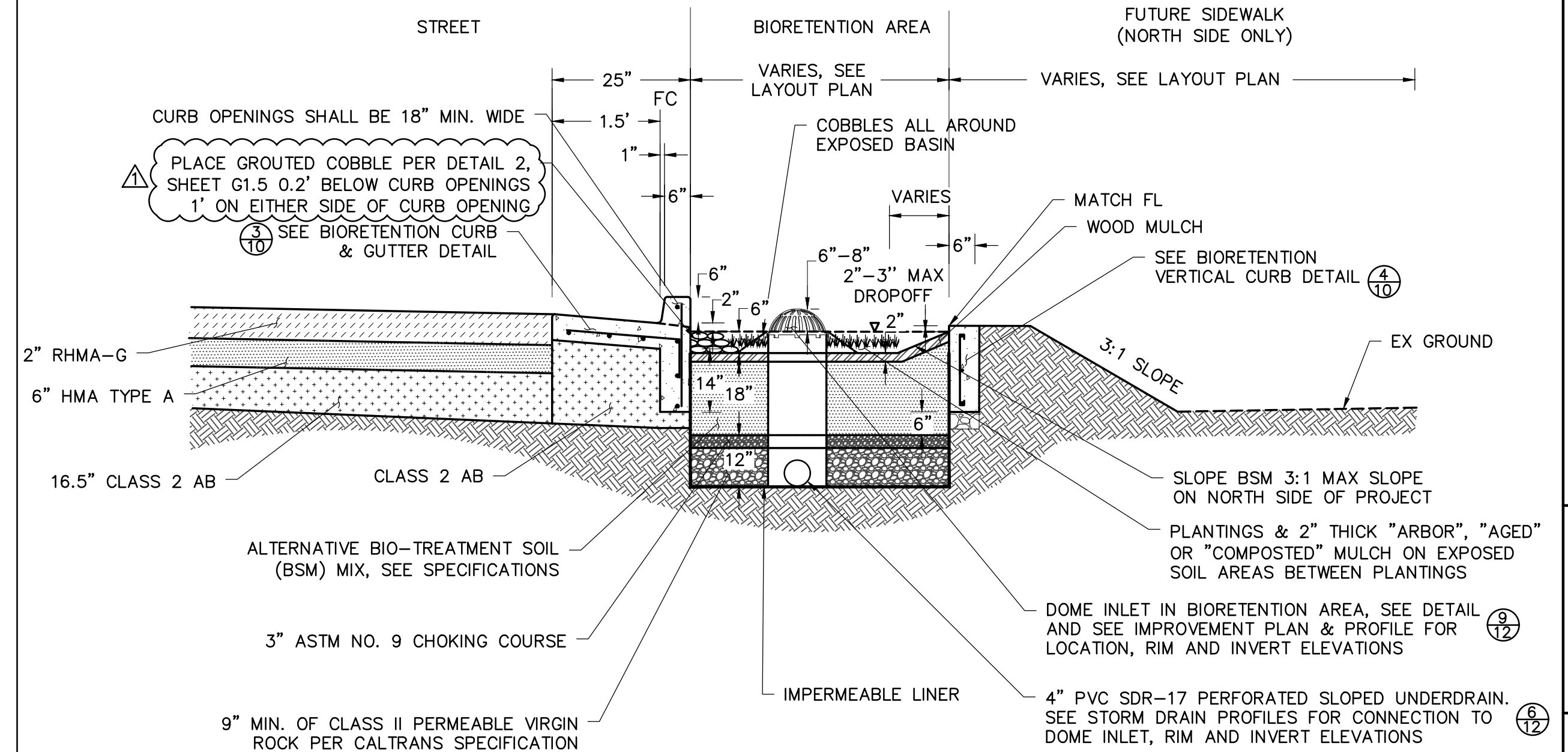
BIORETENTION AREA PLAN 1
SCALE: NTS

BIOTREATMENT 90-DAY MAINTENANCE PERIOD INFORMATION:

1. MAINTAIN VEGETATION AND THE IRRIGATION SYSTEM. PRUNE WEEDS, AS NEEDED TO KEEP THE BIORETENTION AREAS NEAT AND ORDERLY IN APPEARANCE
2. REMOVE OBSTRUCTIONS, DEBRIS, ACCUMULATED SEDIMENT AND TRASH ON A MONTHLY BASIS. EVALUATE THE HEALTH OF PLANTS, REMOVE AND REPLACE ANY DEAD OR DISEASED VEGETATION, AND TILL OR REPLACE SOIL AS NEEDED TO MAINTAIN THE DESIGN ELEVATION OF SOIL ON A BI-ANNUAL BASIS
3. BEFORE AND AFTER THE WET SEASON, AND MONTHLY DURING THE WET SEASON, CONDUCT INSPECTIONS TO ASSURE PROPER FUNCTIONING OF BIORETENTION AREAS.
4. INSPECT AND IF NEEDED, REPLACE MULCH BEFORE THE WET SEASON BEGINS AND WHEN EROSION IS EVIDENT OR WHEN THE BIORETENTION AREA BEGINS TO LOOK UNATTRACTIVE. THE ENTIRE AREA MAY NEED MULCH REPLACEMENT EVERY TWO TO THREE YEARS, ALTHOUGH SPOT MULCHING MAY BE SUFFICIENT WHEN THERE ARE RANDOM VOID AREAS. APPLY MULCH AFTER REMOVING THE WEEDS.
5. INSPECT BIORETENTION AREA FOR PONDED WATER. IF PONDED WATER DOES NOT DRAIN WITHIN FOUR DAYS, REMOVE SURFACE SOILS AND REPLACE THE BIORETENTION SOIL. IF MOSQUITO LARVAE ARE OBSERVED, CONTACT THE CONTRA COSTA COUNTY MOSQUITO & VECTOR CONTROL DISTRICT AT (925) 685-9301.
6. INSPECT INLETS FOR CHANNELS, EXPOSURE OF SOILS, OR OTHER EVIDENCE OF EROSION. CLEAR ANY OBSTRUCTION AND REMOVE ANY ACCUMULATION OF SEDIMENT.
7. ON AN ONGOING BASIS, TREAT DISEASED VEGETATION, AS NEEDED USING PREVENTIVE AND LOW TOXIC MEASURES TO THE EXTENT POSSIBLE, AND REPLACE ANY DEAD PLANTS.
8. THE USE OF PESTICIDES AND QUICK-RELEASE SYNTHETIC FERTILIZERS SHALL BE MINIMIZED AND THE PRINCIPLES OF INTEGRATED PEST MANAGEMENT (IPM) SHALL BE FOLLOWED.



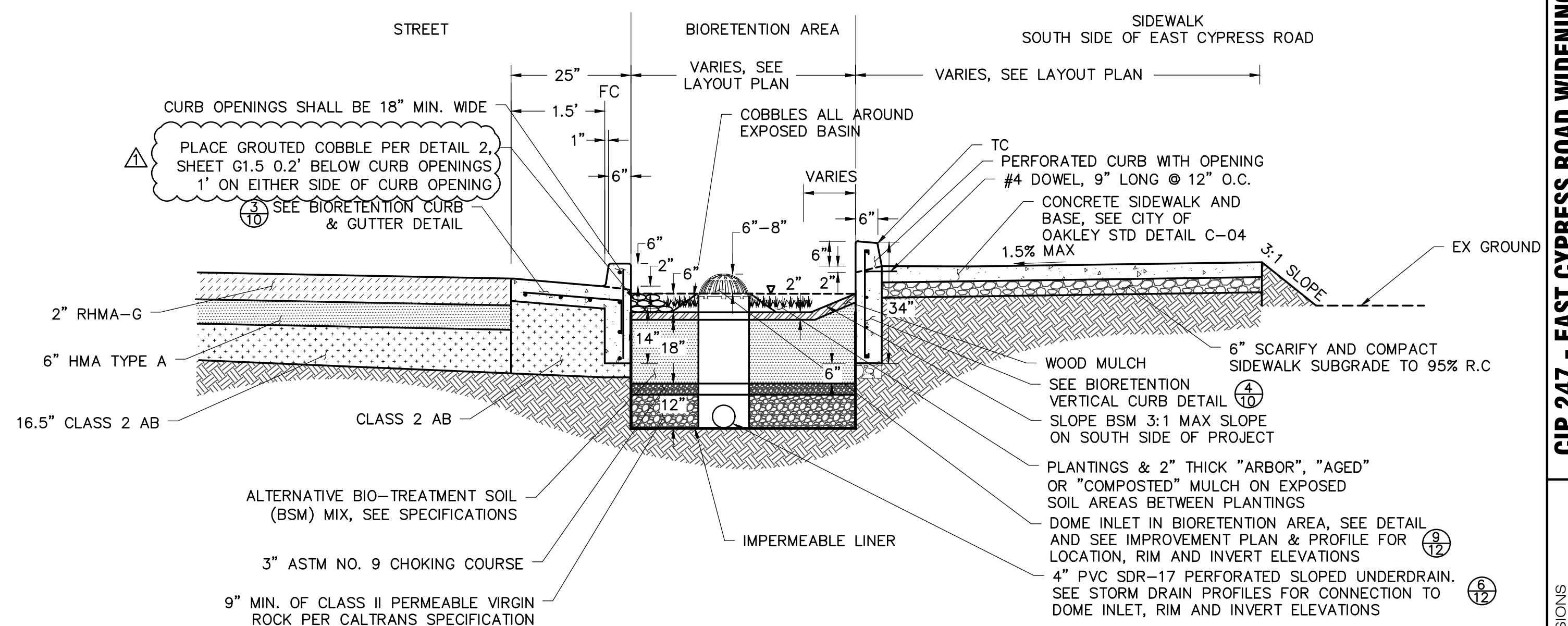
BIORETENTION AREA SECTION C
SCALE: NTS



BIORETENTION AREA GENERAL NOTES:

1. SCARIFY NATIVE SOIL 6" BELOW ALL BIORETENTION AREA IMPROVEMENTS AND COMPACT TO 95% R.C.
2. UNDERDRAIN PIPE SHALL BE SLOTTED HDPE SDR 17 OR ACCEPTABLE SUBSTITUTE MATERIAL PER ENGINEERS SPECIFICATION. SINGLE WALL AND DUAL WALL CORRUGATED HDPE PIPE (AASHTO M252 AND M294 TYPES C, S, AND D) ARE NOT ACCEPTABLE.
3. UNDERDRAIN PIPE SHALL BE SLOTTED TYPE, MEASURING 0.032 INCH WIDE (MAX), SPACED AT 0.25 INCH (MIN), AND PROVIDING A MINIMUM INLET AREA OF 5.0 SQUARE INCH PER LINEAR FOOT OF PIPE.
4. SLOTS SHALL BE ORIENTED PERPENDICULAR TO LONG AXIS OF PIPE.
5. CONTRACTOR SHALL STAKE CURB OPENING LOCATIONS PER PLAN.
6. IMPERMEABLE LINER WILL ONLY BE INSTALLED AT BIORETENTION AREAS.

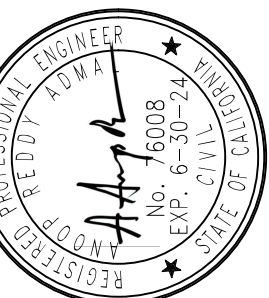
BIORETENTION AREA SECTION B
SCALE: NTS



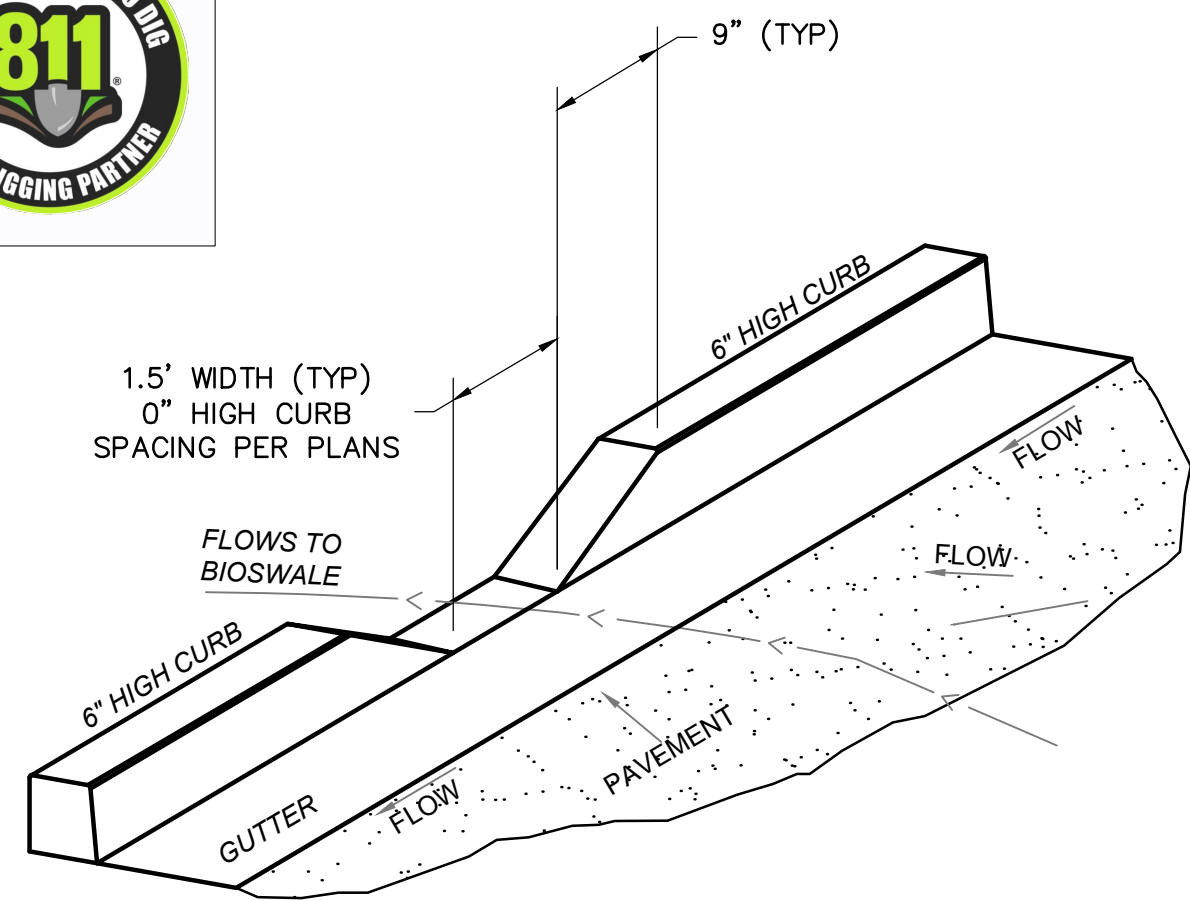
BIORETENTION AREA GENERAL NOTES:

1. SCARIFY NATIVE SOIL 6" BELOW ALL BIORETENTION AREA IMPROVEMENTS AND COMPACT TO 95% R.C.
2. UNDERDRAIN PIPE SHALL BE SLOTTED HDPE SDR 17 OR ACCEPTABLE SUBSTITUTE MATERIAL PER ENGINEERS SPECIFICATION. SINGLE WALL AND DUAL WALL CORRUGATED HDPE PIPE (AASHTO M252 AND M294 TYPES C, S, AND D) ARE NOT ACCEPTABLE.
3. UNDERDRAIN PIPE SHALL BE SLOTTED TYPE, MEASURING 0.032 INCH WIDE (MAX), SPACED AT 0.25 INCH (MIN), AND PROVIDING A MINIMUM INLET AREA OF 5.0 SQUARE INCH PER LINEAR FOOT OF PIPE.
4. SLOTS SHALL BE ORIENTED PERPENDICULAR TO LONG AXIS OF PIPE.
5. CONTRACTOR SHALL STAKE CURB OPENING LOCATIONS PER PLAN.
6. IMPERMEABLE LINER WILL ONLY BE INSTALLED AT BIORETENTION AREAS.

SOUTH SIDE BIORETENTION AREA SECTION A
SCALE: NTS



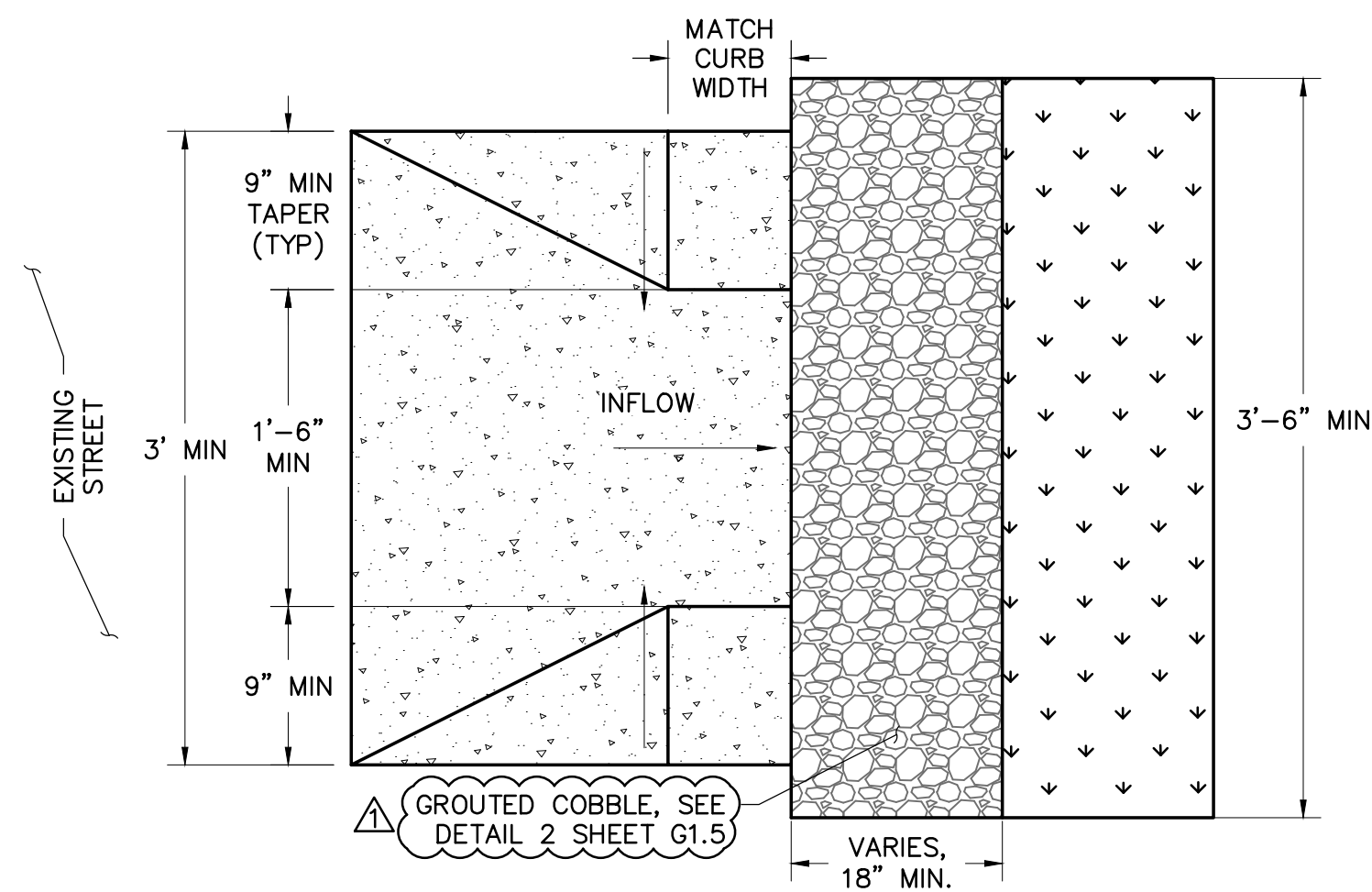
| NO. | DATE | SCALE | DESIGN | DRAWN | APPROVED | JOB NO. |
|-----|----------|-------|--------|-------|----------|---------|
| 1 | 09/30/22 | NTS | AA | ES | DL | 21063 |



CURB CUT OPENING DETAIL

SCALE: NTS

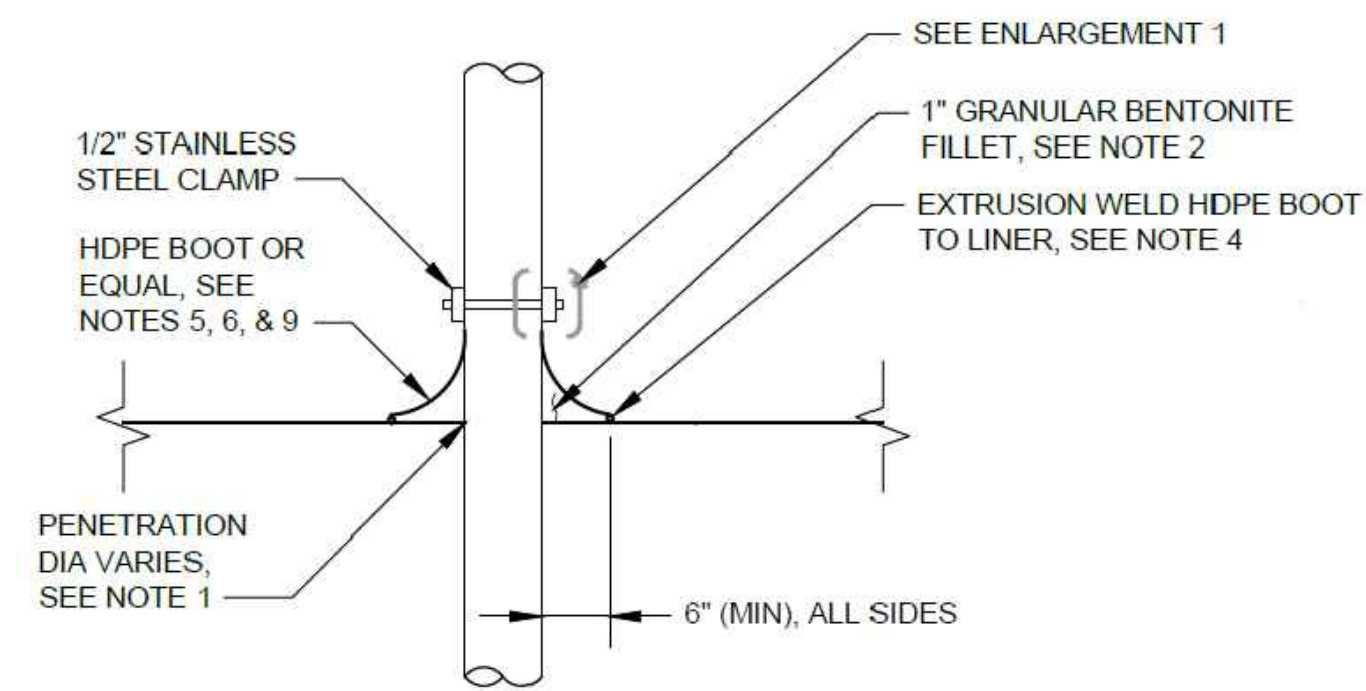
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CURB & GUTTER CUT OPENING PLAN DETAIL

SCALE: NTS

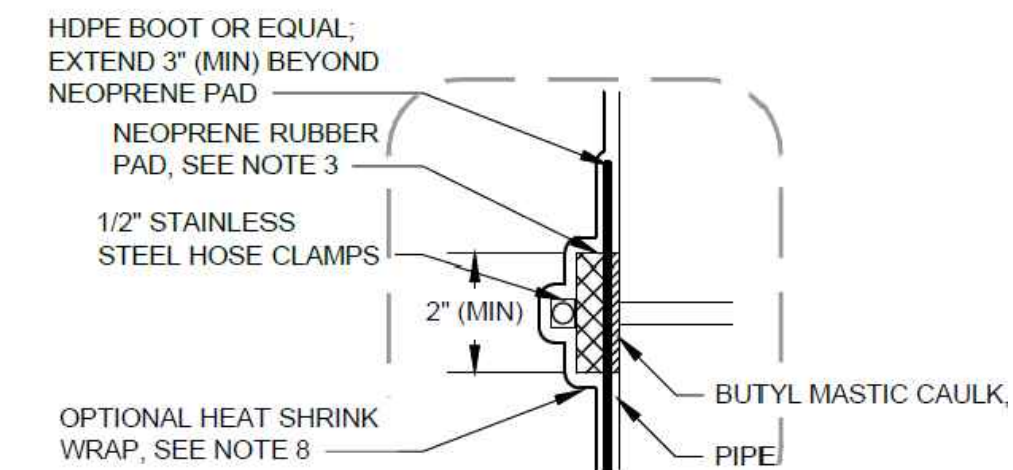
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TYPICAL LINER PENETRATION - PERPENDICULAR

SCALE: NTS

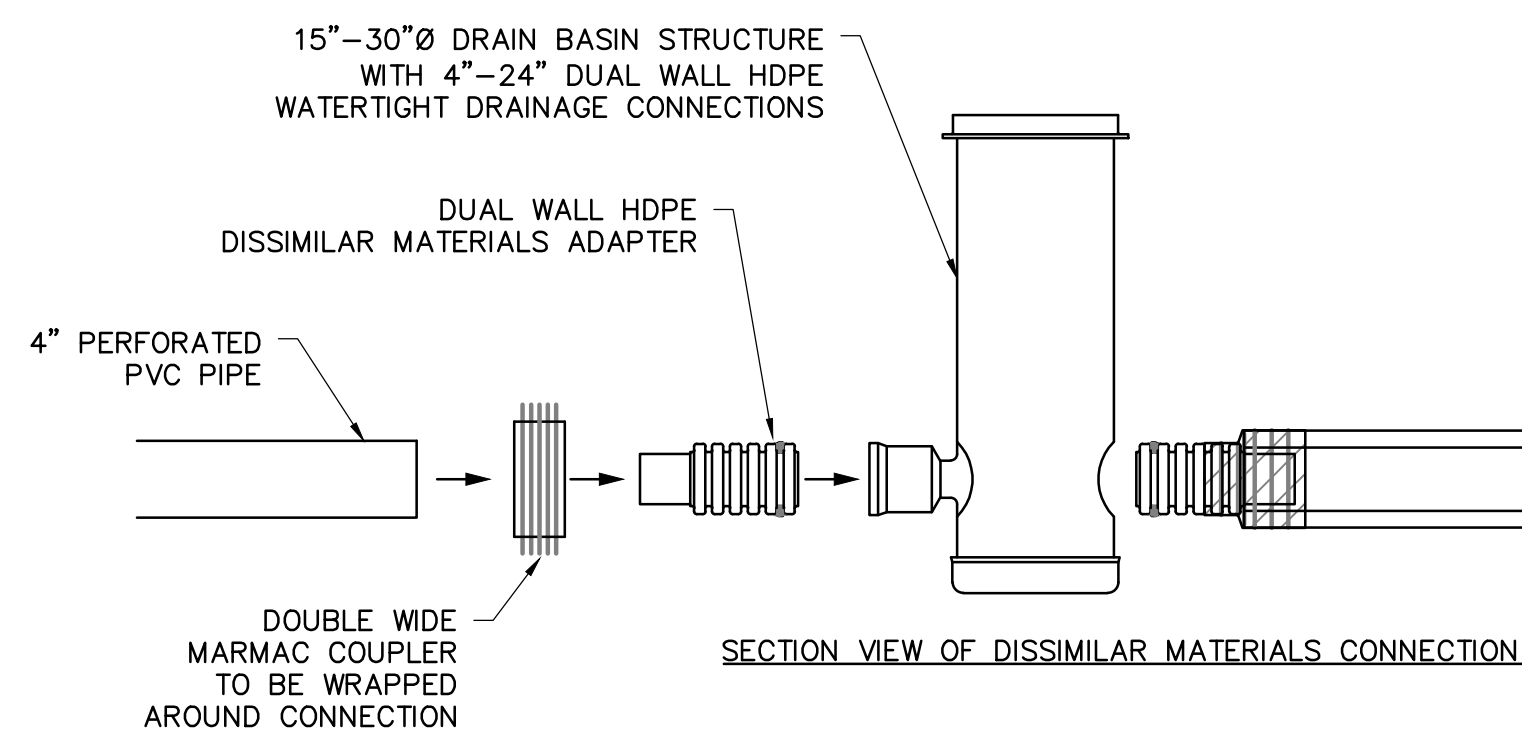
4



ENLARGEMENT 1

LINER PENETRATION NOTE:

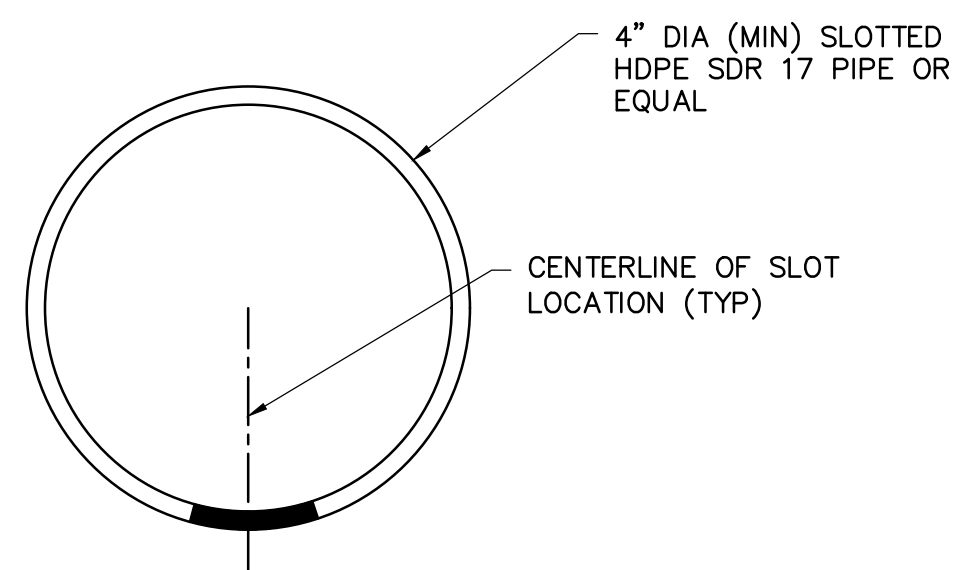
- CUT OPENING IN LINER FOR PIPE TO WITHIN 1/2" OF PIPE OUTSIDE DIAMETER.
- FILL ANNULAR SPACE WITH 1" MINIMUM GRANULAR BENTONITE FILLET AS SHOWN.
- APPLY BUTYL MASTIC CAULK AND NEOPRENE RUBBER PAD CONTINUOUSLY AROUND PIPE.
- PROVIDE CONTINUOUS EXTRUSION WELD AT PIPE BOOT/LINER INTERFACE.
- FORM BOOT WITH SUFFICIENT MATERIAL TO PREVENT OVERSTRESSING DURING BACKFILLING, BUT WITHOUT FOLDS OR WRINKLES.
- CONSTRUCT BOOT FROM SAME MATERIAL AS THE LINER.
- ANGLE SHOULD NOT BE LESS THAN 30°. IF ANGLE IS LESS THAN 30° ADD SOIL AROUND THE PIPE TO INCREASE THE ANGLE AND PREVENT STRESSING AND CRACKING.
- SEAL CLAMP AND END OF BOOT WITH HEAT SHRINK WRAP. EXTEND HEAT SHRINK WRAP ONE PIPE DIAMETER (MINIMUM) BEYOND CLAMP.
- CONTRACTOR MAY USE PREFABRICATED PIPE BOOTS IN LIEU OF FIELD-FABRICATED BOOTS. CONNECT PREFABRICATED BOOT TO LINER AND PIPE PER MANUFACTURER'S RECOMMENDATIONS.



DRAIN BASIN WITH DISSIMILAR MATERIALS CONNECTION TO RCP

SCALE: NTS

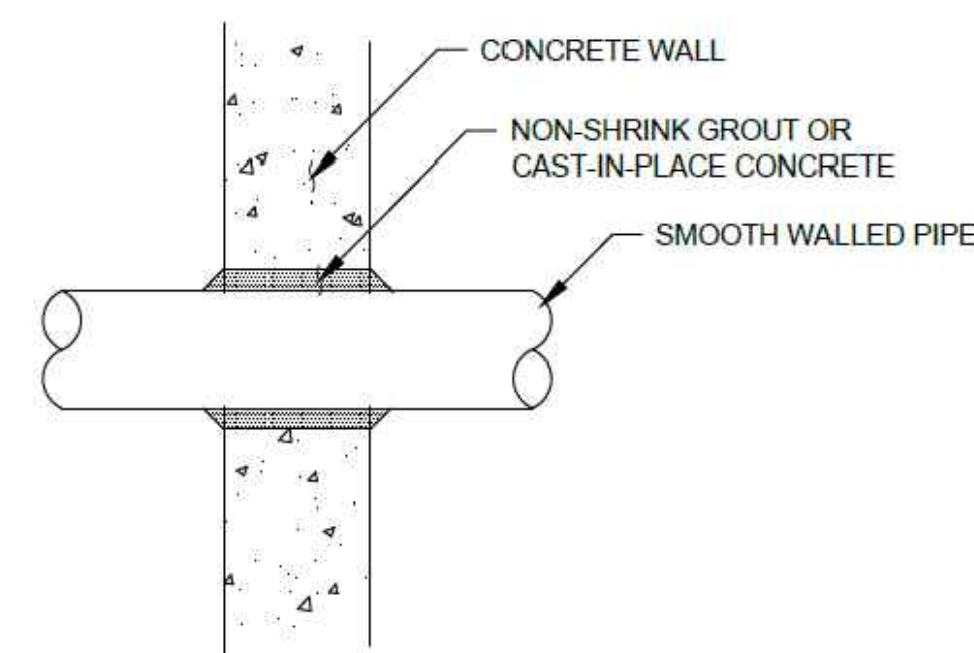
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SLOTTED UNDERDRAIN PIPE

SCALE: NTS

6



TYPICAL SOIL TIGHT WALL PENETRATION

SCALE: NTS

7

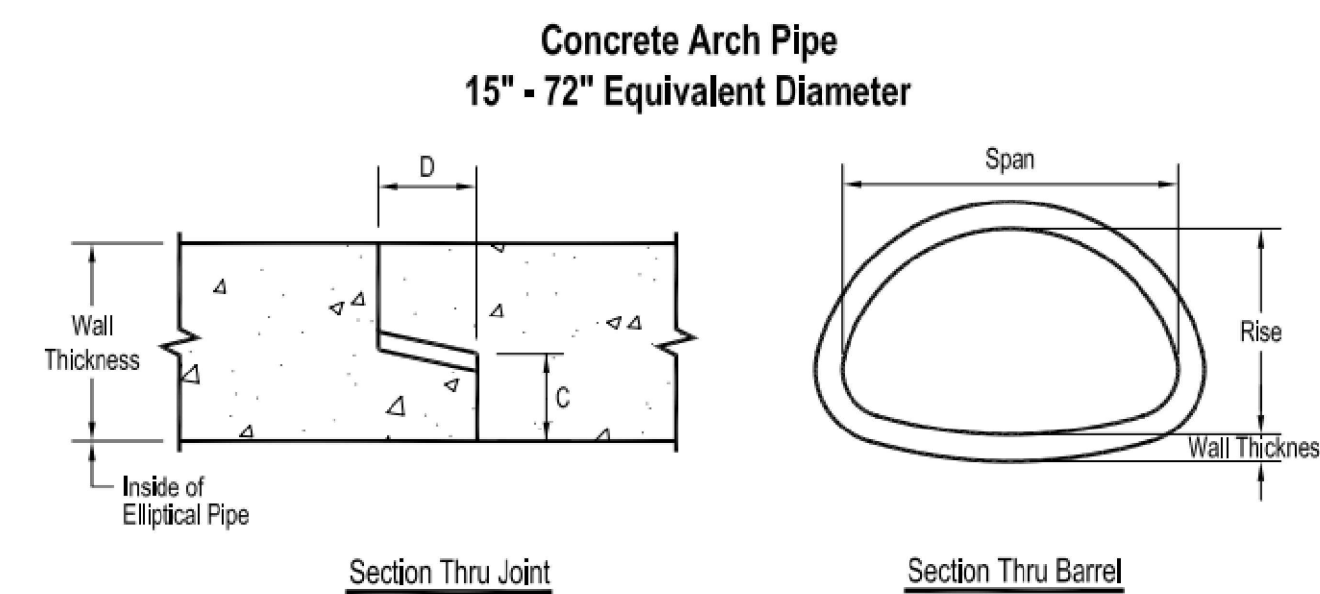


Table Of Dimensions And Weights

| Round Equivalent (inches) | Inside Dimension (inches) Rise | Span | Wall Thickness (inches) | C (inches) | D (inches) | Full Flow Water Area (Sq. Ft.) | Approx. Weight (lbs./ft.) |
|---------------------------|--------------------------------|--------|-------------------------|------------|------------|--------------------------------|---------------------------|
| 15 | 11 | 18 | 3 | 1 1/4 | 2 1/4 | 1.1 | 130 |
| 18 | 13 1/2 | 22 | 3 1/8 | 1 7/16 | 2 1/4 | 1.65 | 190 |
| 24 | 18 | 28 1/2 | 3 1/2 | 1 1/2 | 2 3/4 | 2.8 | 350 |
| 30 | 22 1/2 | 36 1/4 | 3 1/2 | 1 5/8 | 3 | 4.4 | 468 |
| 36 | 26 5/8 | 43 3/4 | 4 | 1 3/4 | 3 1/2 | 6.4 | 638 |
| 42 | 31 5/16 | 51 1/8 | 4 1/2 | 1 15/16 | 3 1/2 | 8.8 | 878 |
| 48 | 36 | 58 1/2 | 5 | 2 1/4 | 3 1/2 | 11.4 | 1,110 |
| 54 | 40 | 65 | 5 1/2 | 2 5/8 | 5 | 14.3 | 1,375 |
| 60 | 45 | 73 | 6 | 2 15/16 | 5 | 17.7 | 1,513 |
| 72 | 54 | 88 | 7 | 3 3/16 | 6 | 25.8 | 2,113 |

Pipe dimensions may vary depending upon equipment availability.

Notes:

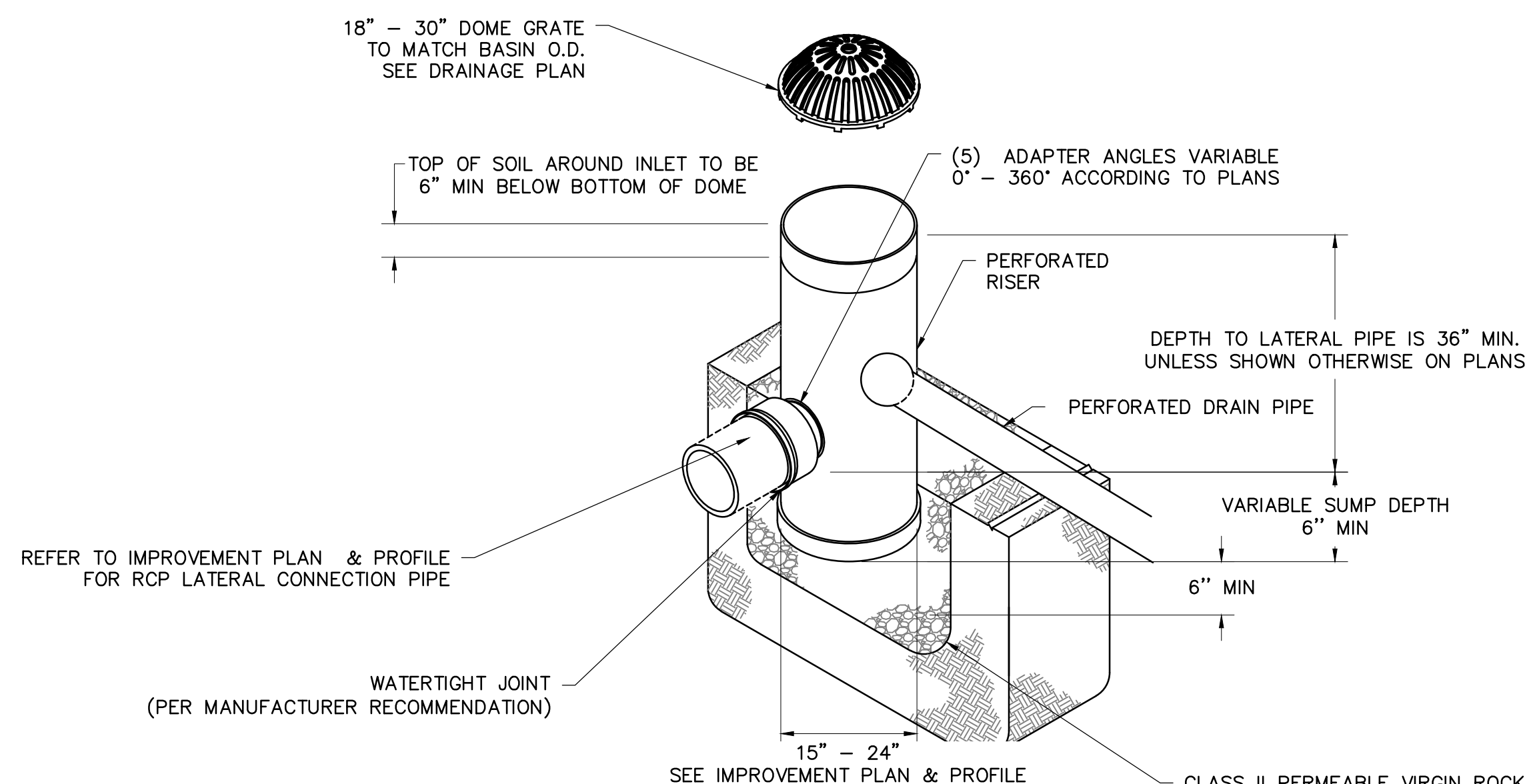
- Produced to meet ASTM Specifications.
- Contact a Concrete Pipe Division representative for details not listed on this sheet.

Rinker

REINFORCED CONCRETE ARCH PIPE (OR APPROVED EQUAL)

SCALE: NTS

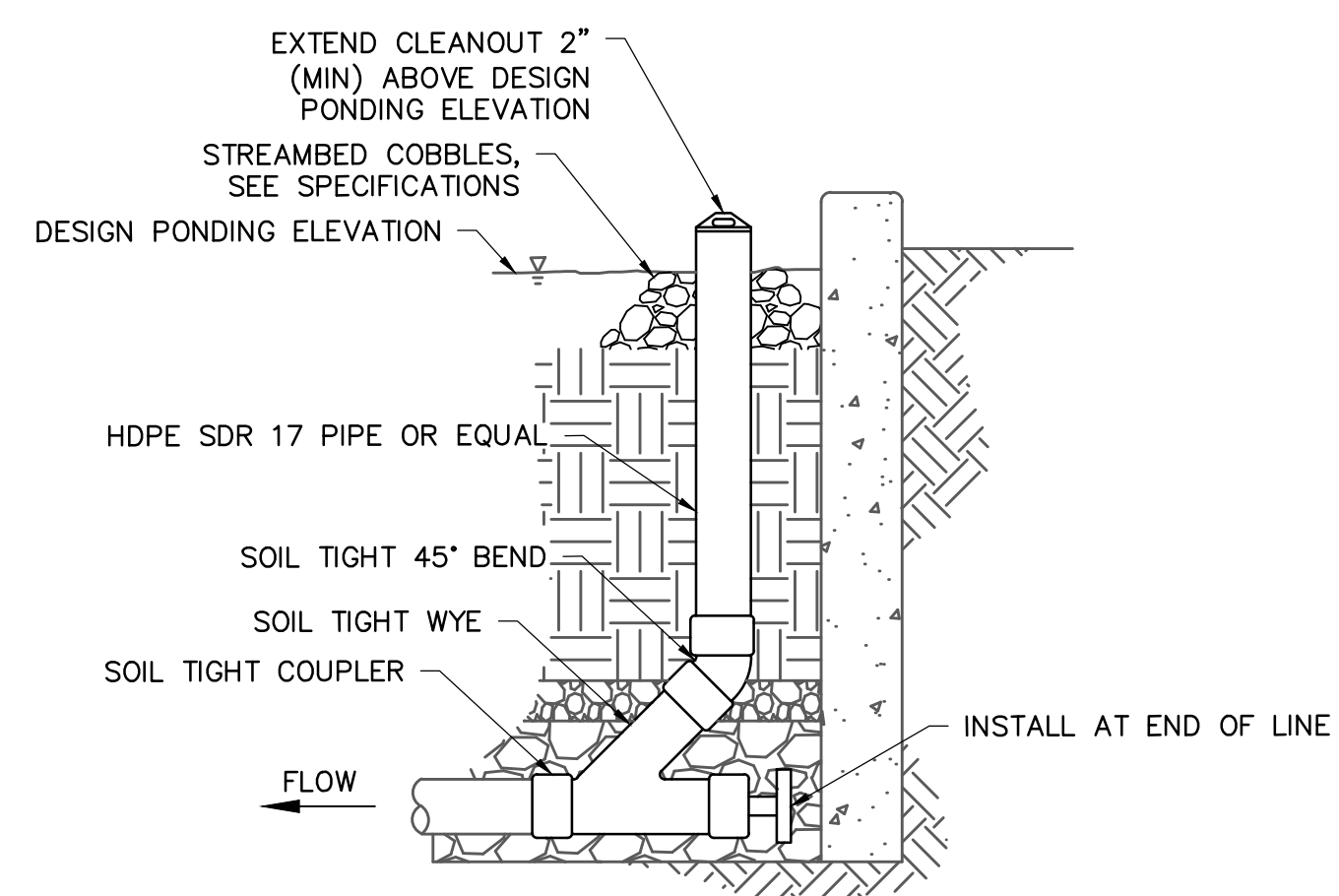
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DOME INLET DETAIL

SCALE: NTS

8



UNDERDRAIN CLEANOUT NOTES:

- CLEANOUT PIPE AND FITTINGS SHALL BE SAME SIZE AND MATERIAL AS SLOTTED UNDERDRAIN PIPE.
- CLEANOUT COVERS AND LIDS MUST COMPLY WITH CITY OF OAKLEY PUBLIC WORKS AGENCY STANDARD ACCESSIBILITY REQUIREMENTS.
- CLEANOUT SHALL BE INSTALLED TO ALLOW FOR MAINTENANCE ACCESS TO ALL PIPES.
- ALL FITTINGS SHALL BE SOIL TIGHT.

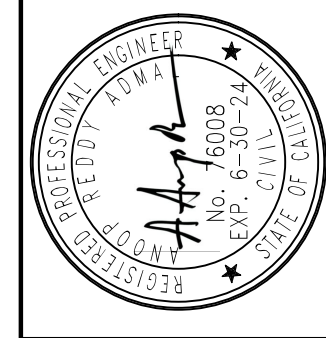
UNDERDRAIN CLEANOUT

SCALE: NTS

9

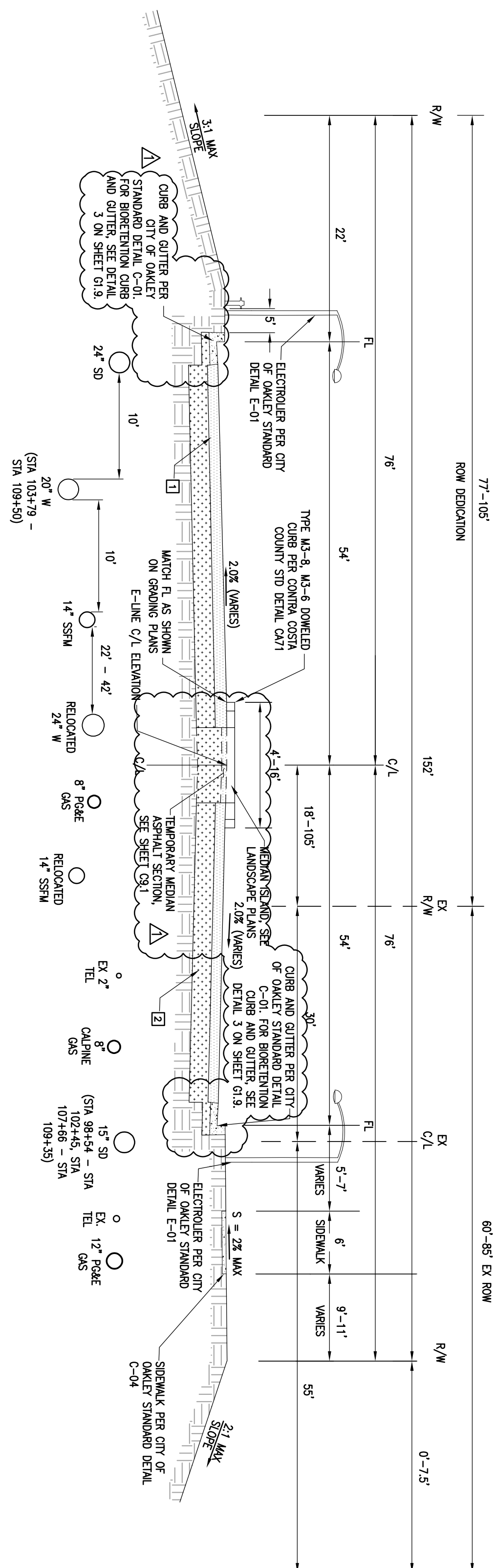
- DOME GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
- ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°.
- DOME GRATES HAVE NO LOAD RATING.

CLASS II PERMEABLE VIRGIN ROCK BACKFILL MATERIAL. REFER TO CALTRANS STD. SPECIFICATIONS

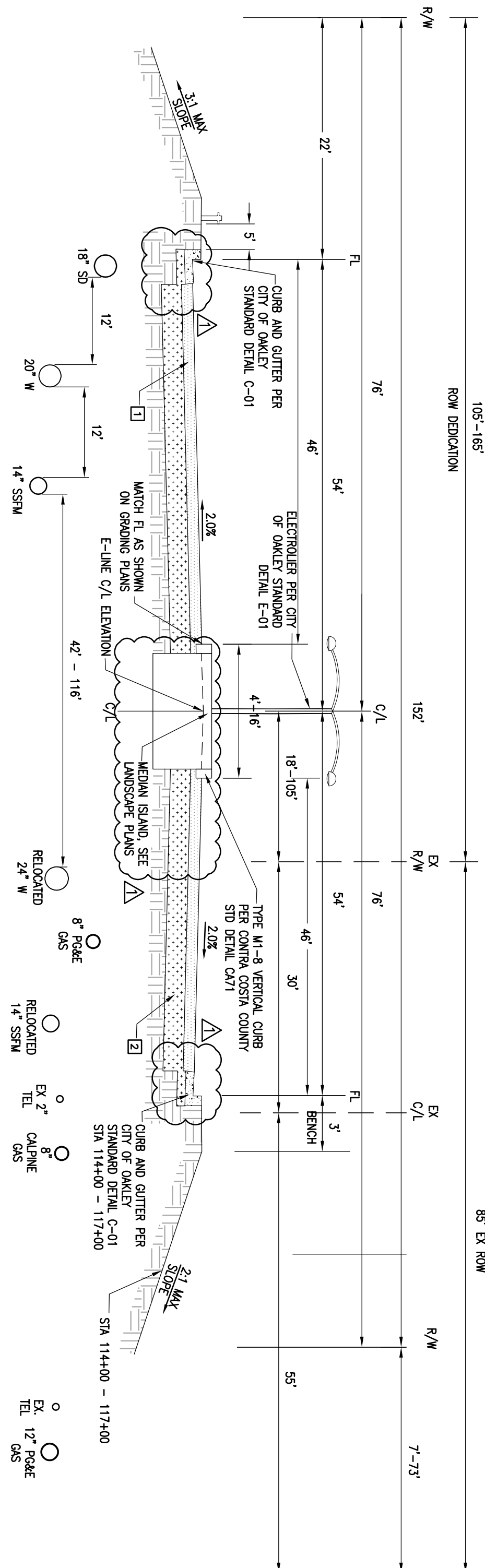


| DATE | SCALE | DESIGN | DRAWN | APPROVED | JOB NO. |
|----------|-------|--------|-------|----------|---------|
| 09/30/22 | NTS | AA | ES | DL | 21063 |

DRAWING NUMBER: **G1.11**
12 OF 68



EAST CYPRESS ROAD
95+00 - 103+20
NOT TO SCALE

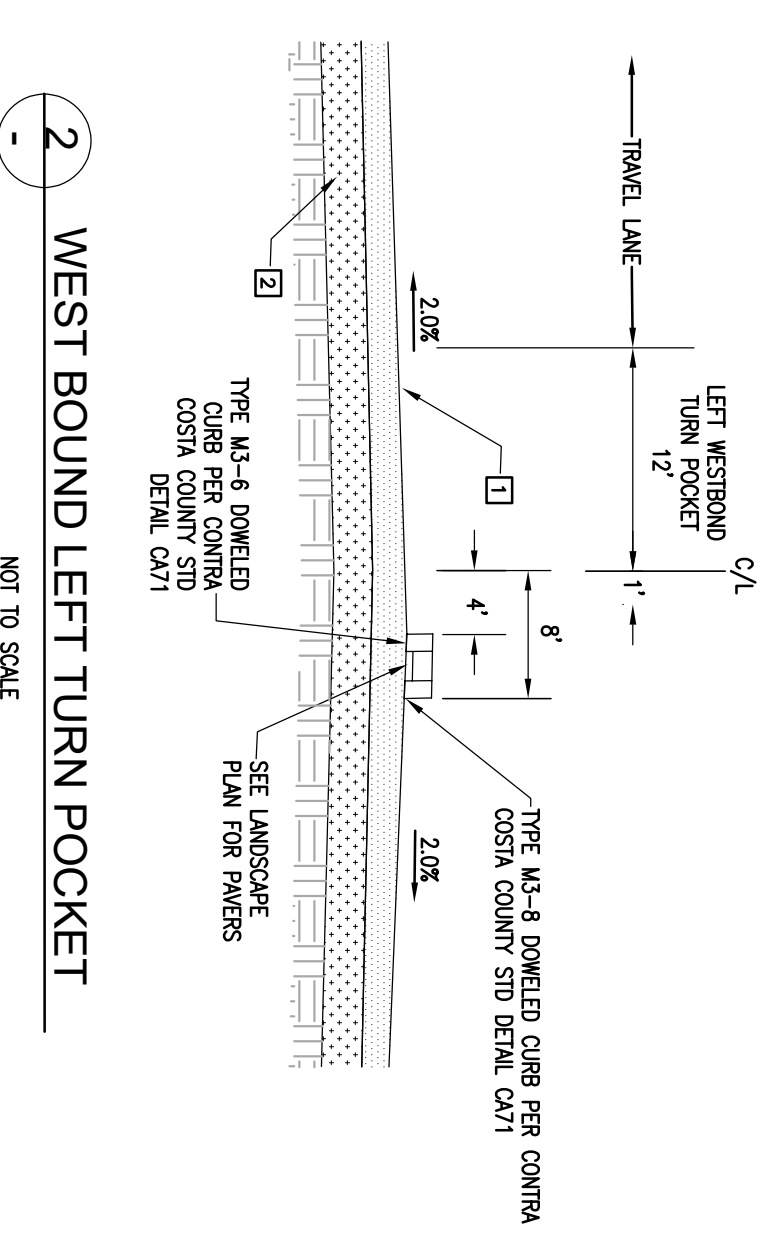
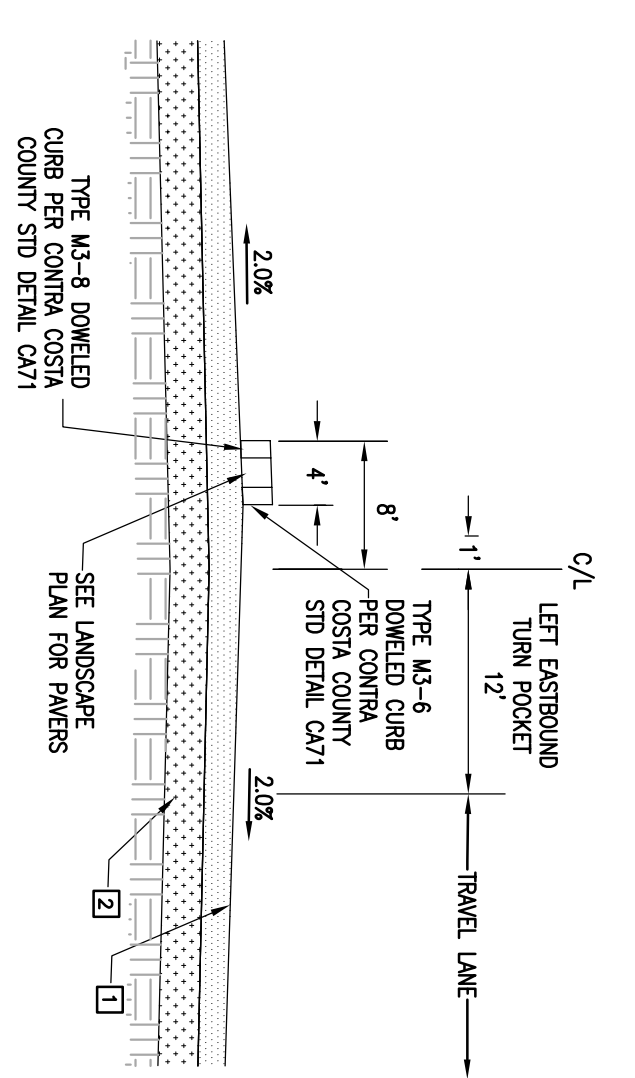


EAST CYPRESS ROAD
114+00 - 117+00
NOT TO SCALE

TRAFFIC INDEX = 10.5
R VALUE = 5

LEGEND

- [2] 2" RHMA-G OVER 6" TYPE A HMA (TYP)
- [A] AT STA 114+00-117+00. SOUTH SIDE OF MEDIAN DO NOT INSTALL 2" RHMA-G
- [2] 16.5" CLASS 2 AB + B2 GEOTEXTILE
- [F] FABRIC



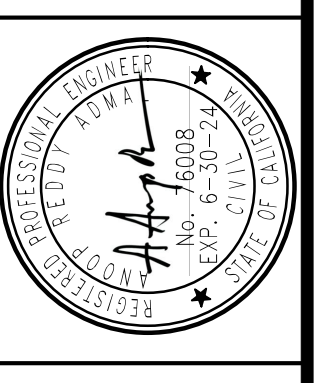
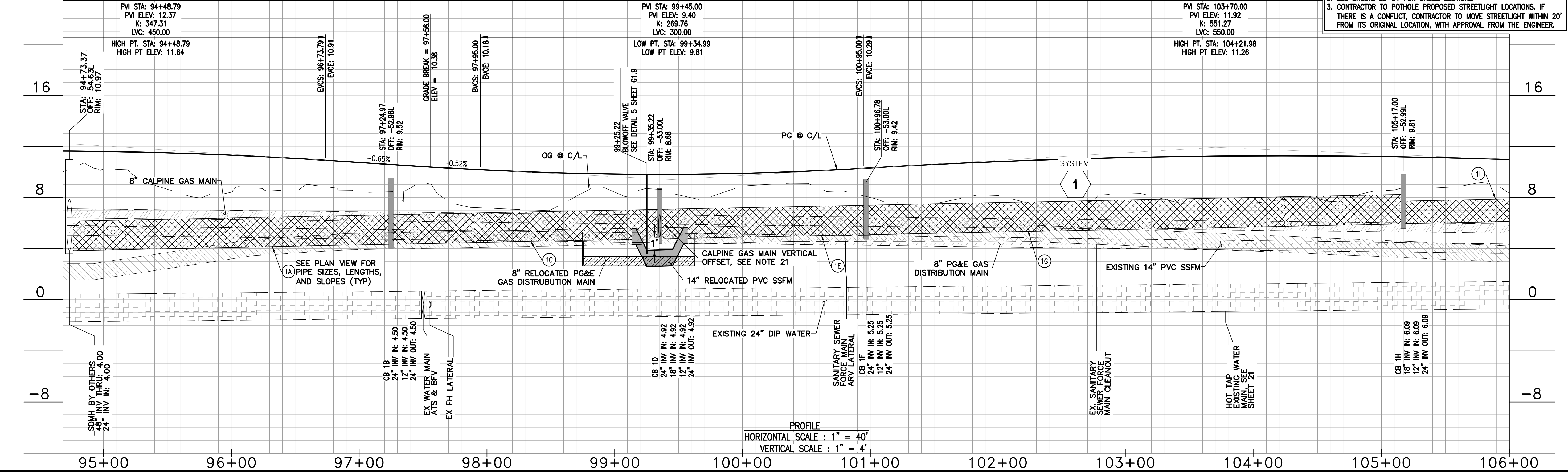
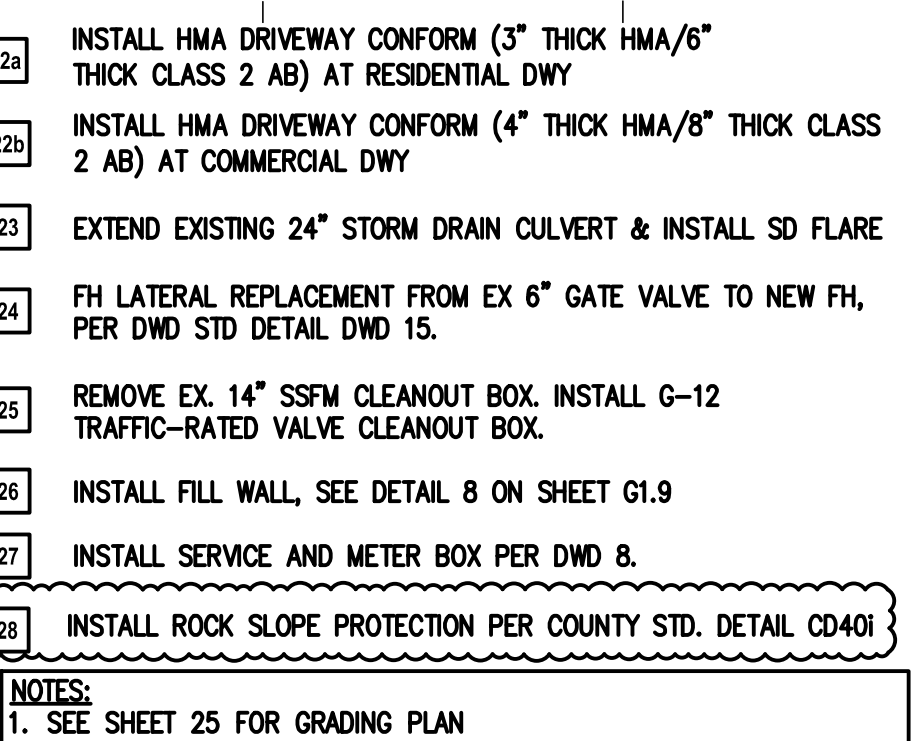
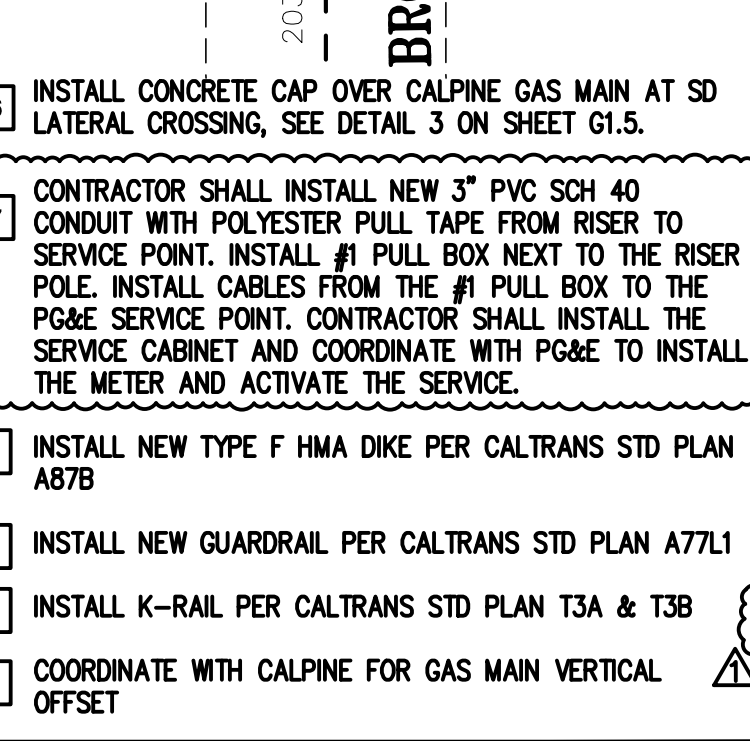
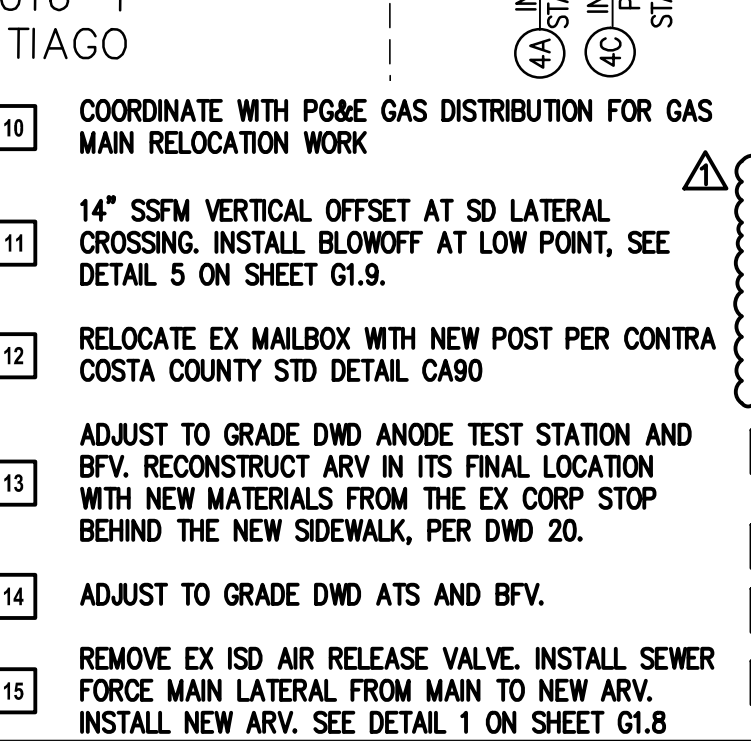
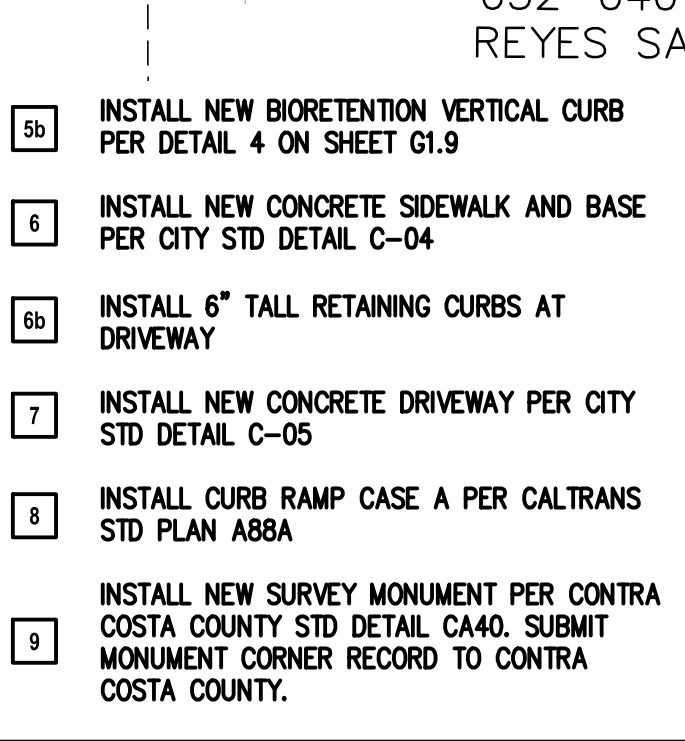
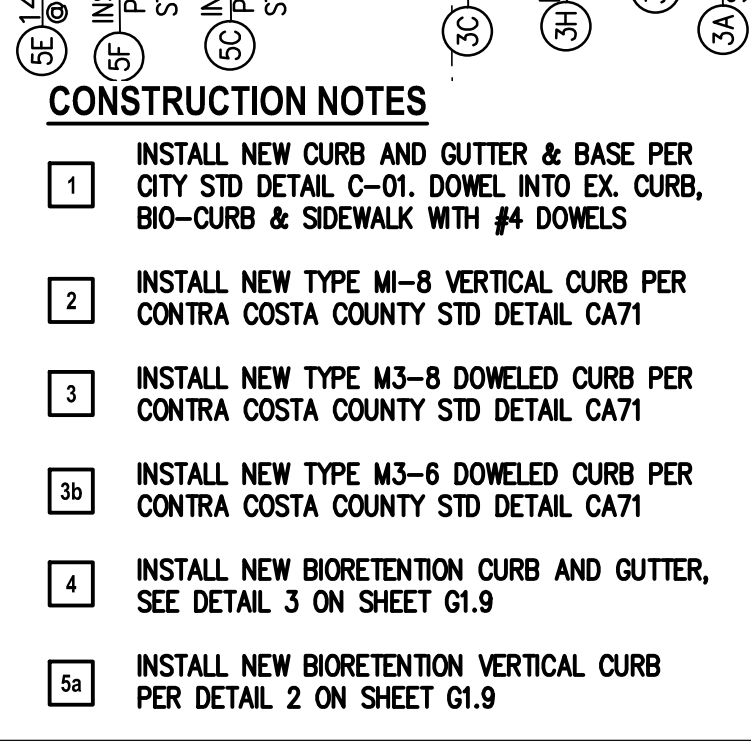
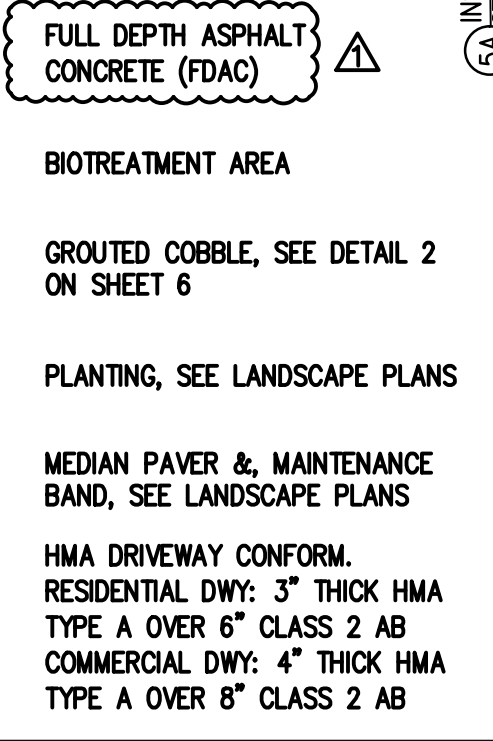
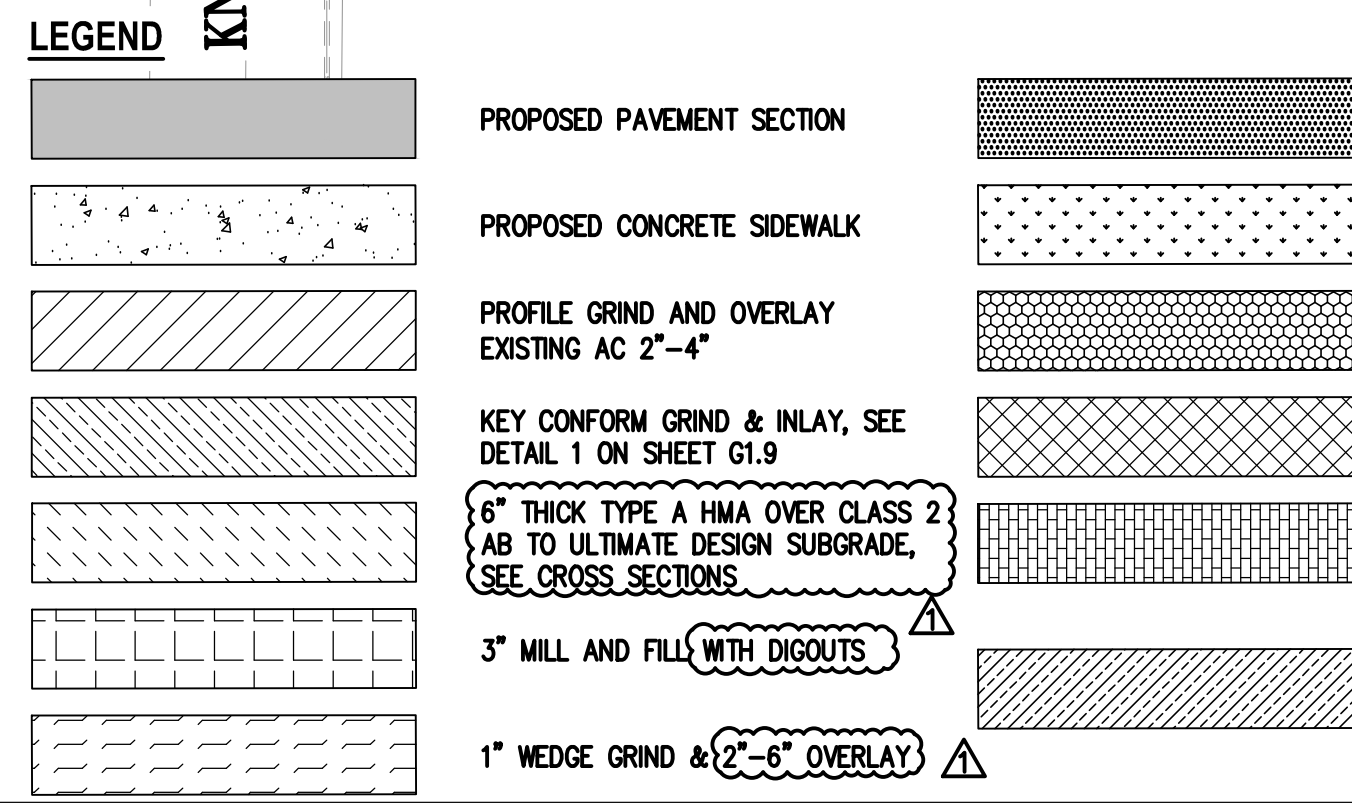
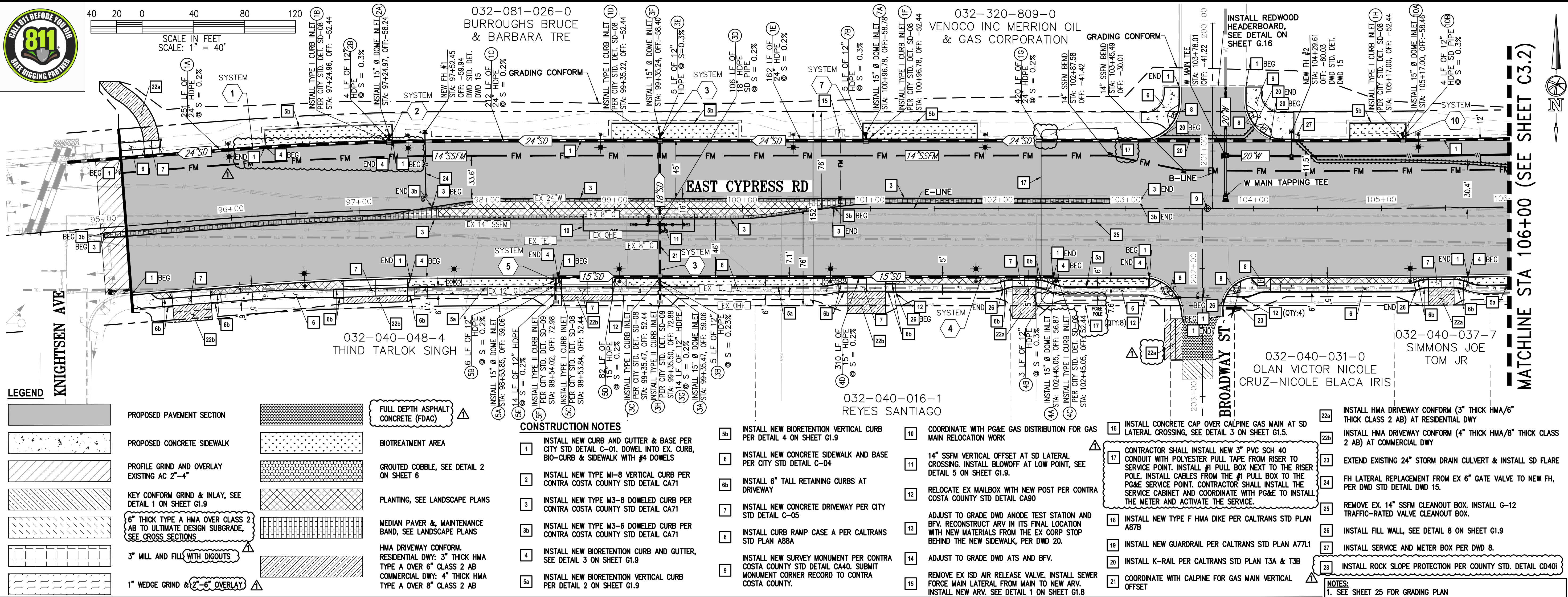
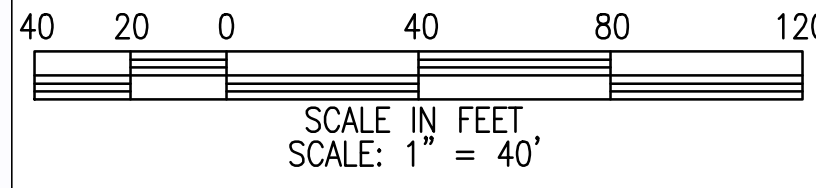
**CIP 247 - EAST CYPRESS ROAD WIDENING PROJECT
FROM KNIGHTSEN AVENUE TO JERSEY ISLAND ROAD**

TYPICAL STREET SECTION

CITY OF OAKLEY CONTRA COSTA COUNTY CALIFORNIA



| DATE: 09/30/22 | NO. | REVISIONS |
|----------------|-------------|-----------|
| SCALE: NTS | ADDENDUM #1 | |
| DESIGN: AA | | |
| DRAWN: ES | | |
| APPROVED: DL | | |
| JOB NO: 21063 | | |



CIP 247 - EAST CYPRESS ROAD WIDENING PROJECT FROM KNIGHTSEN AVENUE TO JERSEY ISLAND ROAD IMPROVEMENT PLAN AND PROFILE STA 95+00 - STA 106+00 CONTRA COSTA COUNTY CITY OF OAKLEY

Table with 4 columns: DATE, NO., APPENDIX #, REVISIONS. Includes design and drawing dates and numbers.



032-320-809-0
VENOCO INC MERRION OIL
& GAS CORPORATION

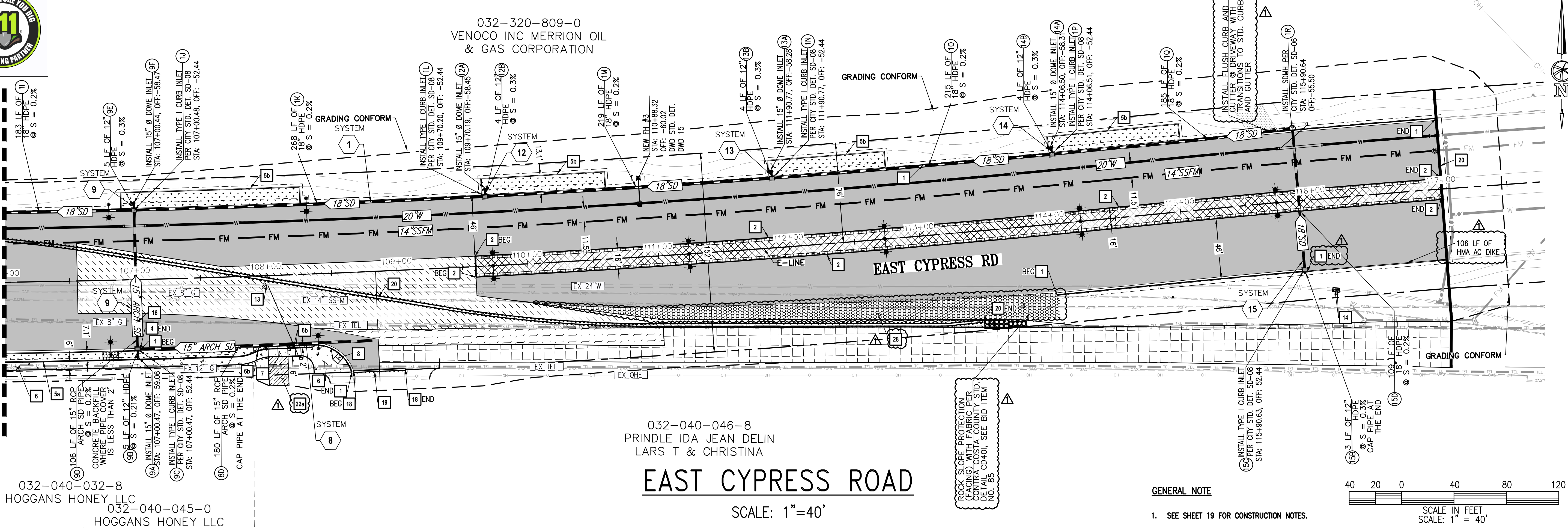
032-040-046-8
PRINDLE IDA JEAN DELIN
LARS T & CHRISTINA

EAST CYPRESS ROAD

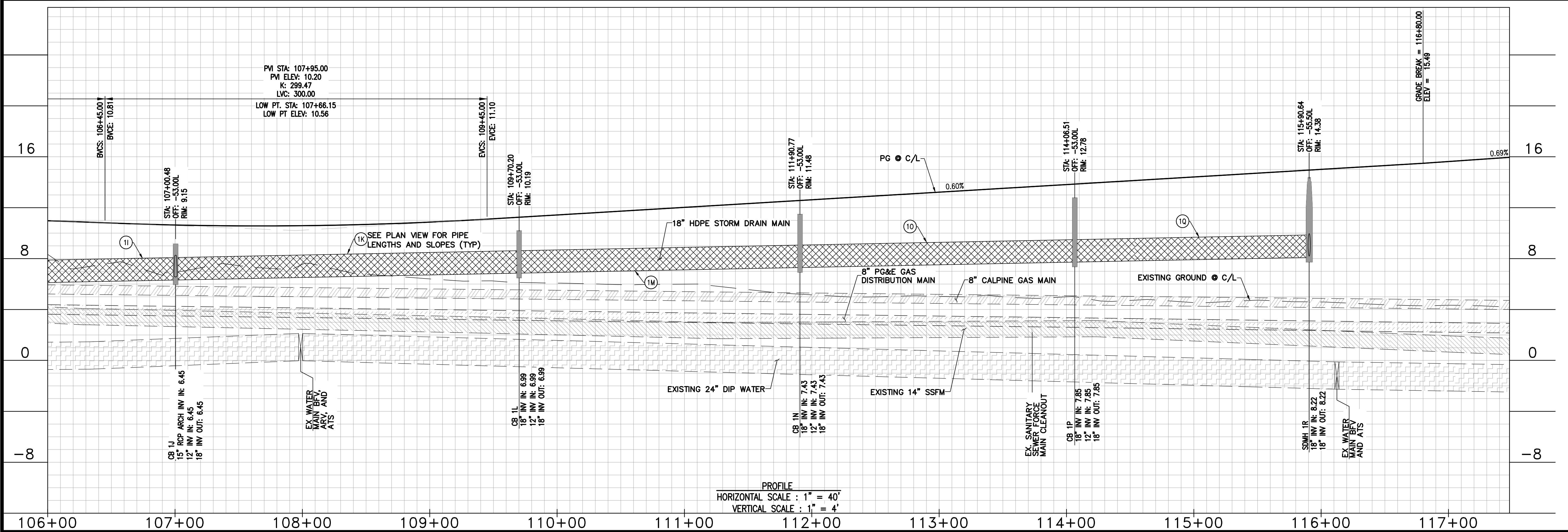
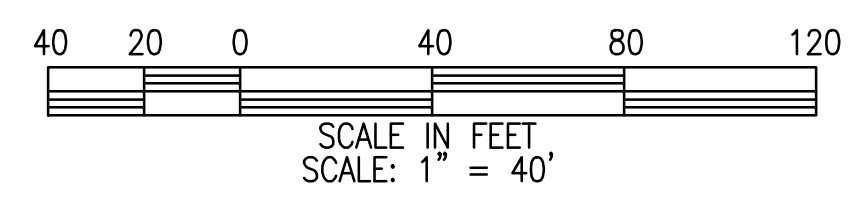
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MATCH LINE STA: 106+00 (SEE SHEET C3.1)

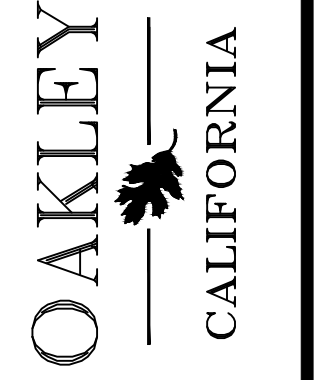
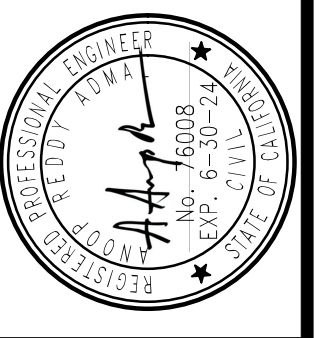
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HOGGANS HONEY LLC
032-040-045-0
HOGGANS HONEY LLC



GENERAL NOTE
1. SEE SHEET 19 FOR CONSTRUCTION NOTES.



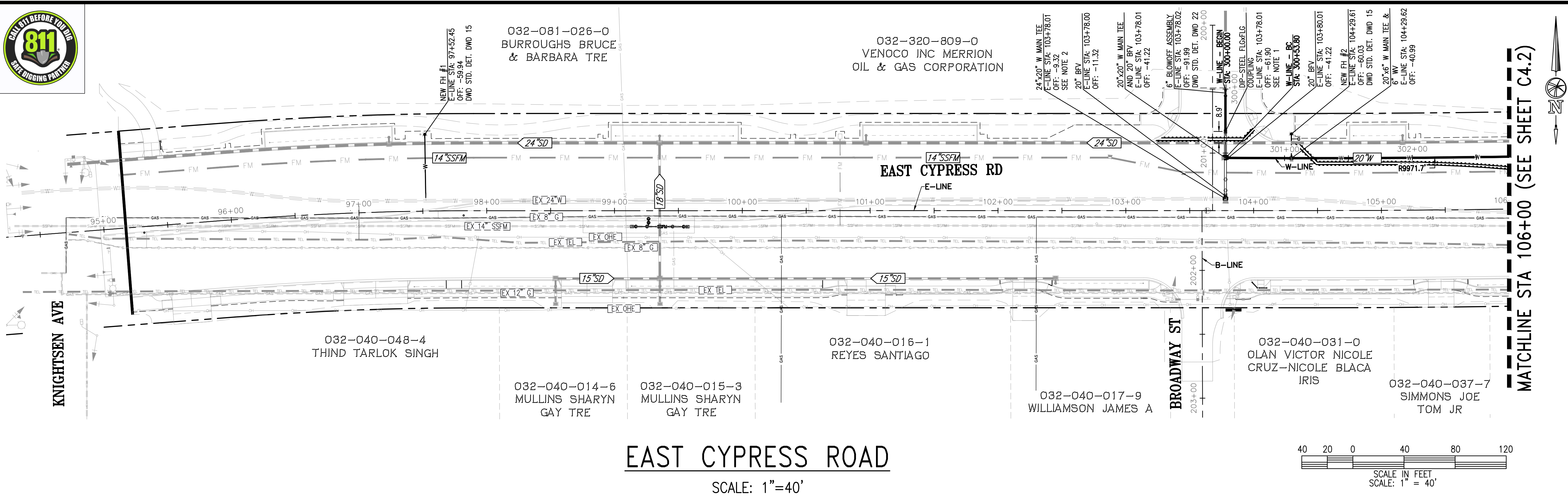
PROFILE
HORIZONTAL SCALE : 1" = 40'
VERTICAL SCALE : 1" = 4'



CIP 247 - EAST CYPRESS ROAD WIDENING PROJECT
FROM KNIGHTSEVEN AVENUE TO JERSEY ISLAND ROAD
IMPROVEMENT PLAN AND PROFILE
STA 106+00 - STA 117+00
CITY OF OAKLEY CONTRA COSTA COUNTY CALIFORNIA

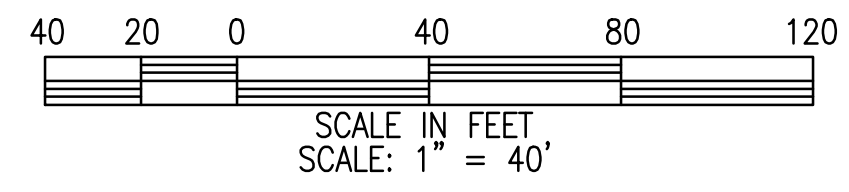
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| 06/26/22 | 1 | ISSUED FOR PERMIT |

DRAWING NUMBER:
C3.2
20 OF 68



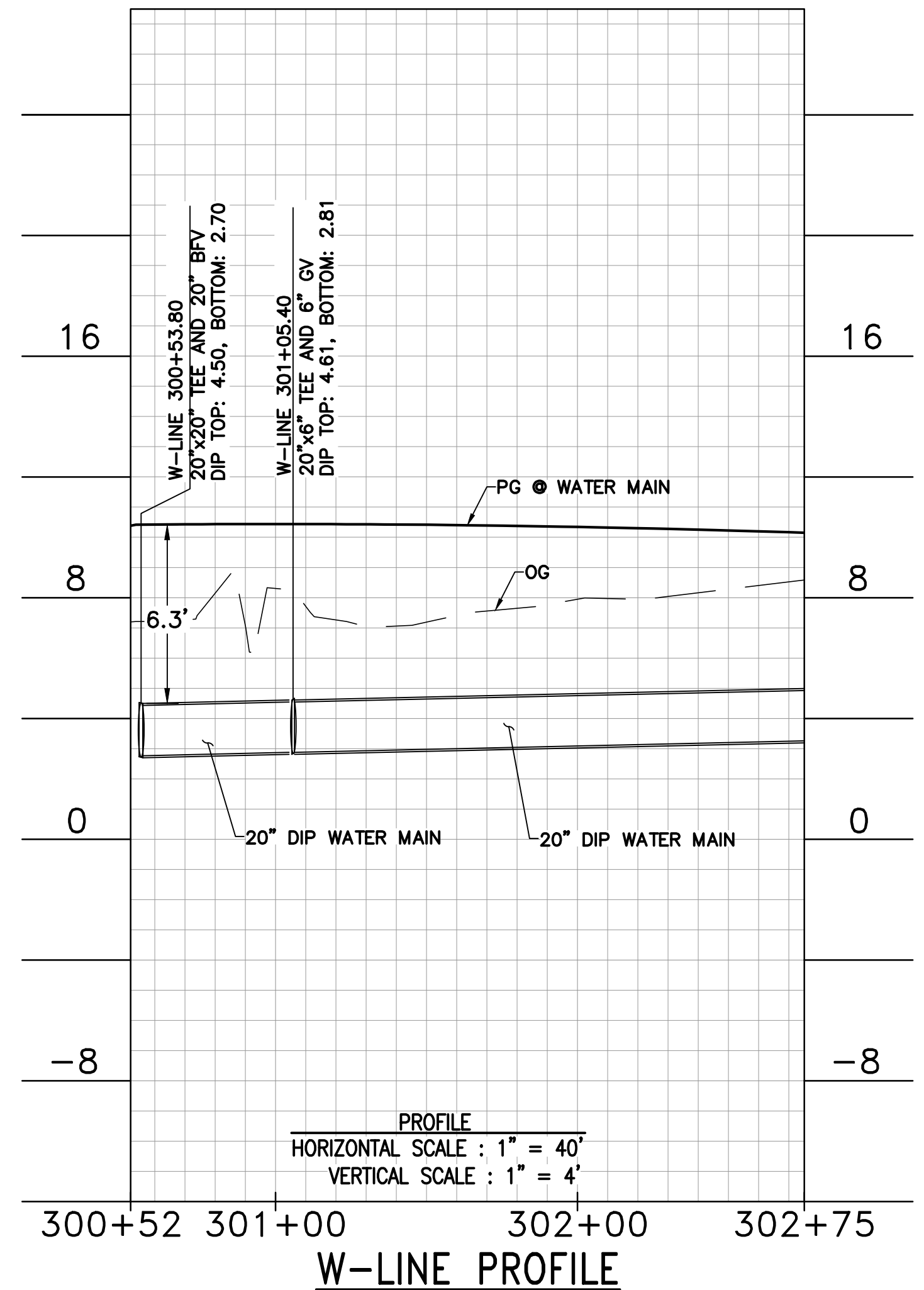
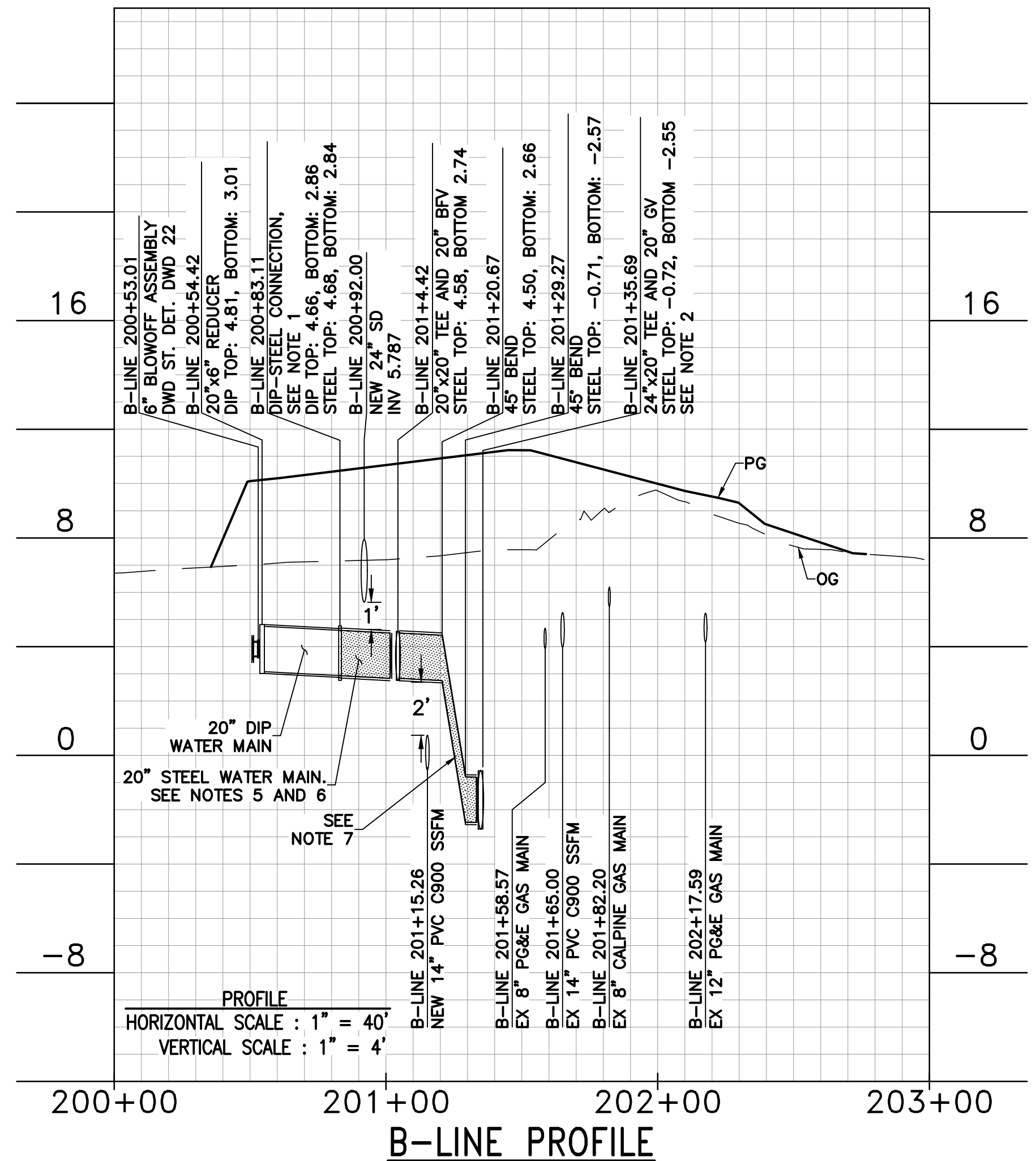
EAST CYPRESS ROAD

SCALE: 1"=40'



NOTES:

- STEEL MORTAR LINED AND COATED PIPE (SMLC) SHALL HAVE A FLANGED END AT CONNECTION TO DIP PIPE. FIELD WELDING ON SMLC PIPE SHALL BE AVOIDED. THE USE OF FIELD WELDED JOINT ON SMLC PIPE SHALL BE PRE-APPROVED BY DWD AND PERFORMED USING A SPLIT 12" WIDE BUTT-STRAP WITH 5" HANDHOLE. ALL CONNECTIONS BETWEEN STEEL AND DUCTILE IRON PIPE SHALL BE ELECTRICALLY SEPARATED BY AN INSULATING FLANGE OR INSULATING MECHANICAL COUPLING PER DWD STANDARDS.
- CONNECTION TO EXISTING 24" DIP DWD WATER MAIN SHALL BE PERFORMED AS A HOT TAP WITH JCM 452 STAINLESS STEEL TAPPING TEE 24"x20" WITH 20" GATE VALVE PER DWD GENERAL WATER NOTE 21.
- SEE SHEET C3.1-C3.2 FOR EXISTING UTILITY INFORMATION.
- SEE SHEETS CP-1-CP-5 FOR CATHODIC PROTECTION PLANS AND DETAILS.
- INSTALLATION OF WATER MAIN BENEATH STORM DRAIN LATERAL WILL REQUIRE DDW APPROVAL.
- STRAIGHT SEGMENT OF STEEL PIPE TO BE MORTAR LINED AND COATED WITH MIN. WALL THICKNESS OF 0.375".
- STEEL WATER MAIN SINGLE OFFSET TO BE FABRICATED PER DWD STD DETAIL DWD 7. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL FROM CITY AND DWD.
- STEEL WATER MAIN DOUBLE OFFSET TO BE FABRICATED PER DWD STD DETAIL DWD 6. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL FROM CITY AND DWD.



REVISION 1: SHEET REVISED IN ITS ENTIRETY

Bellecci
Intelligent Infrastructure
925-685-4569
bellecci.com

OAKLEY
CALIFORNIA

Professional Engineer
No. 6008
Exp. 6-30-24

CIP 247 - EAST CYPRESS ROAD WIDENING PROJECT
FROM KNIGHTSEN AVENUE TO JERSEY ISLAND ROAD
WATER MAIN PLAN AND PROFILE
STA 95+00 - STA 106+00
CITY OF OAKLEY
CONTRA COSTA COUNTY
CALIFORNIA

| DATE | NO. | REVISIONS |
|----------|-----|-------------|
| 09/30/22 | A | APPENDIX #1 |

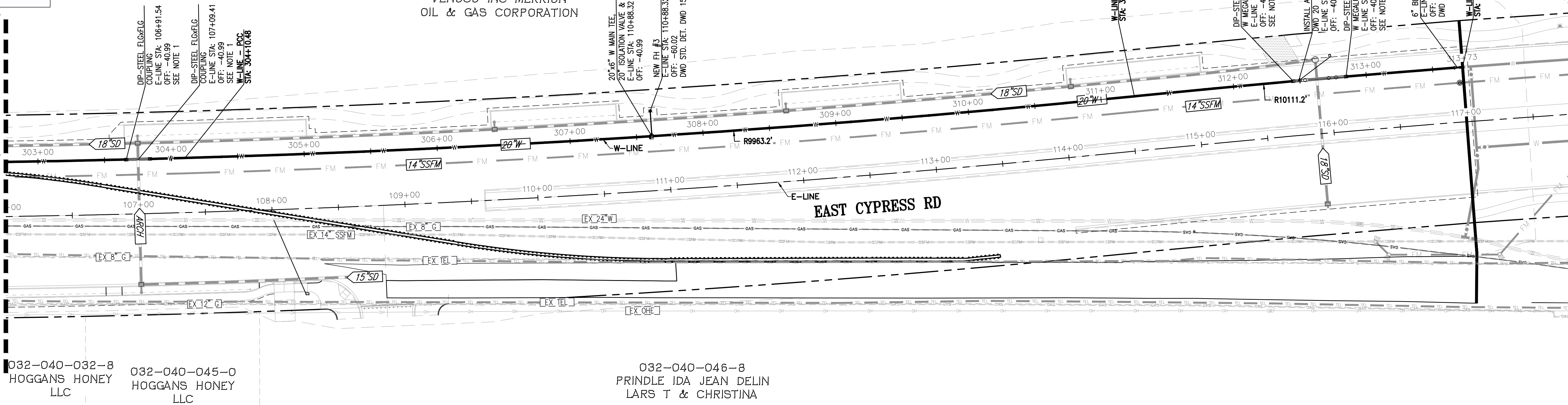
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SCALE: 1" = 40'
DESIGN: AA
DRAWN: ES
APPROVED: DL
JOB NO: 21063

DRAWING NUMBER:
C4.1
21 OF 68



MATCH LINE STA: 106+00 (SEE SHEET C4.1)

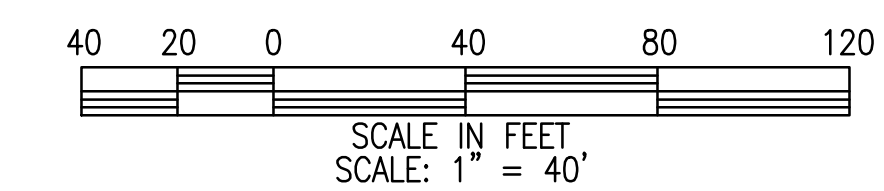
032-320-0
VENOCO INC MERRION
OIL & GAS CORPORATION



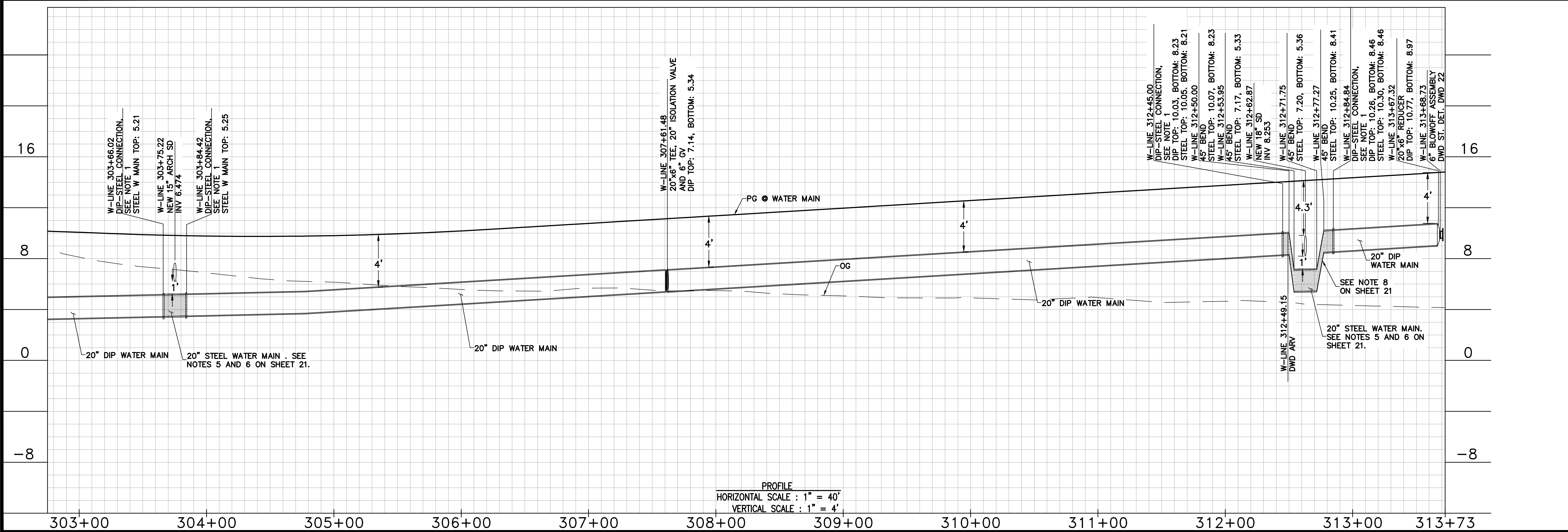
EAST CYPRESS ROAD

SCALE: 1"=40'

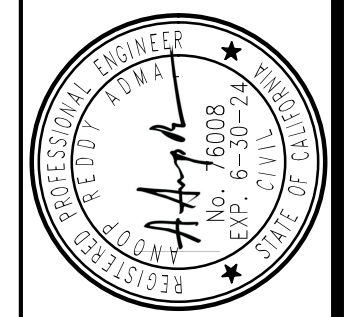
NOTES: SEE SHEET C4.1 FOR WATER
MAIN PROFILE NOTES



A SHEET REVISED IN ITS ENTIRETY



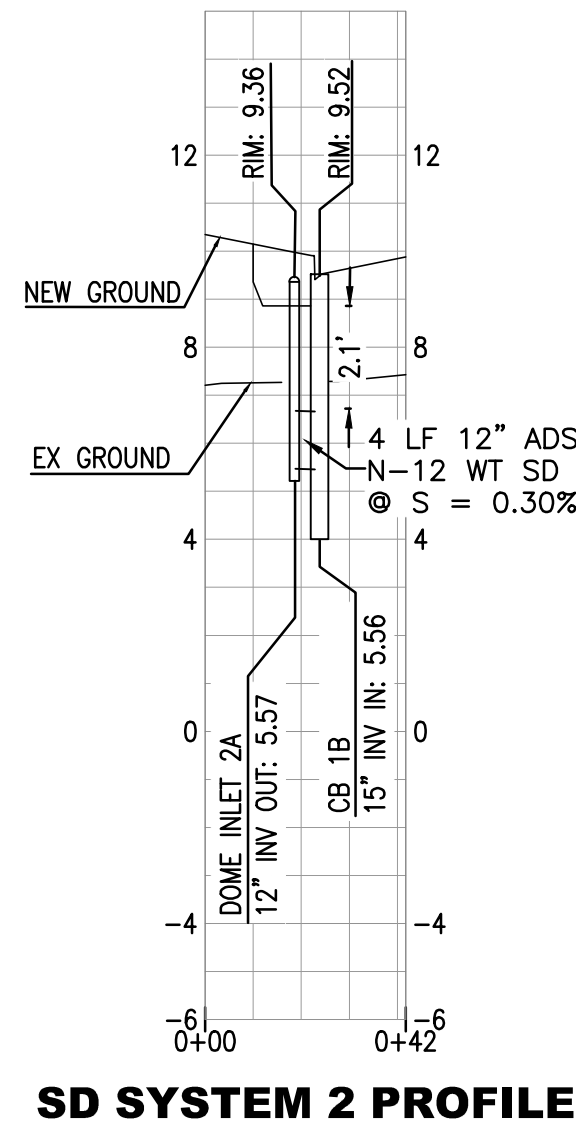
PROFILE
HORIZONTAL SCALE : 1" = 40'
VERTICAL SCALE : 1" = 4'



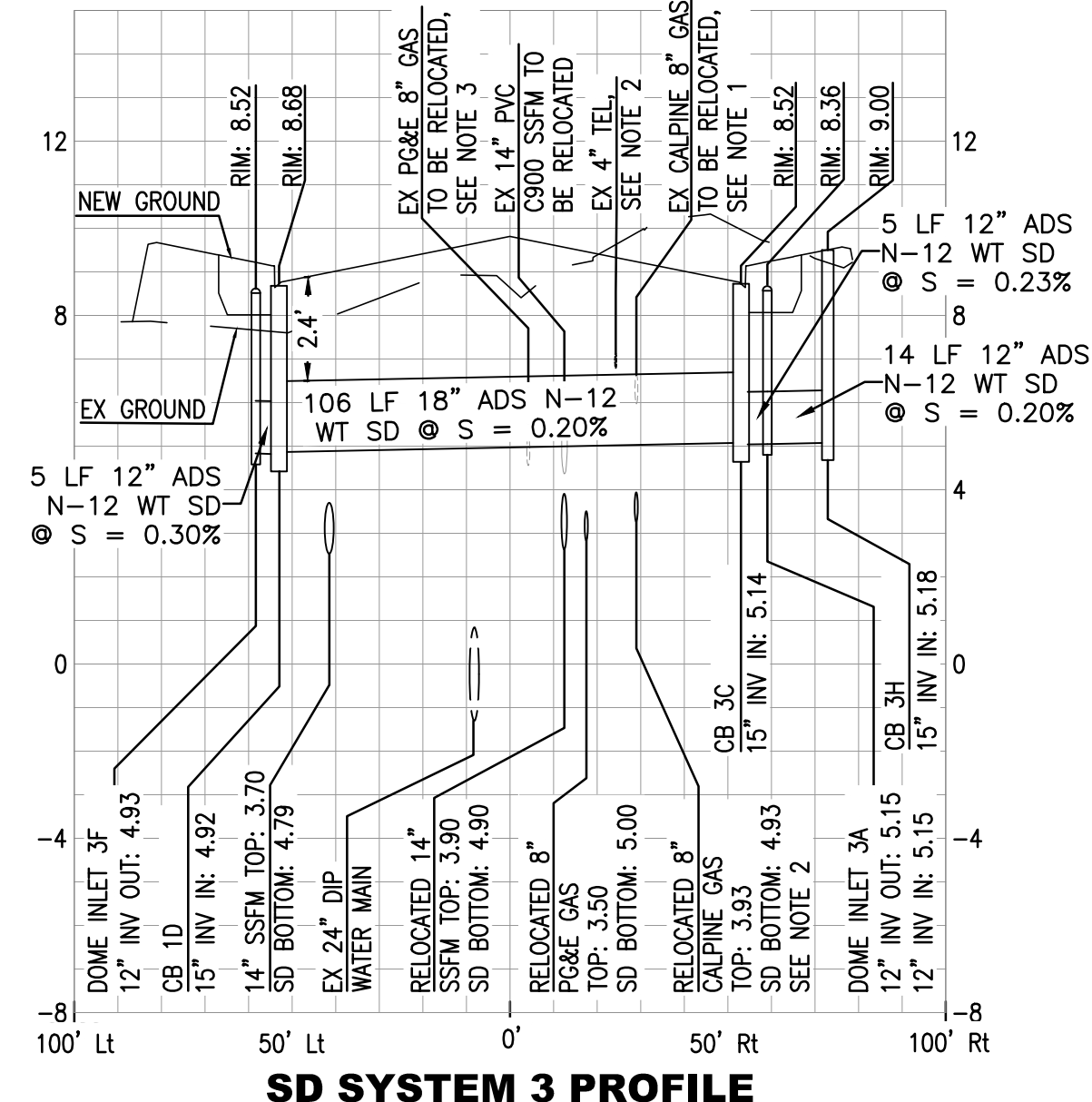
CIP 247 - EAST CYPRESS ROAD WIDENING PROJECT
FROM KNIGHTSEN AVENUE TO JERSEY ISLAND ROAD
WATER MAIN PLAN & PROFILE
STA 106+00 - STA 117+00
CITY OF OAKLEY CONTRA COSTA COUNTY CALIFORNIA

| NO. | REVISIONS | APPENDIX # |
|-----|-----------|------------|
| 1 | | |

DATE: 09/30/22
SCALE: 1" = 40'
DESIGN: AA
DRAWN: ES
APPROVED: DL
JOB NO: 21063
DRAWING NUMBER:
C4.2
22 OF 68

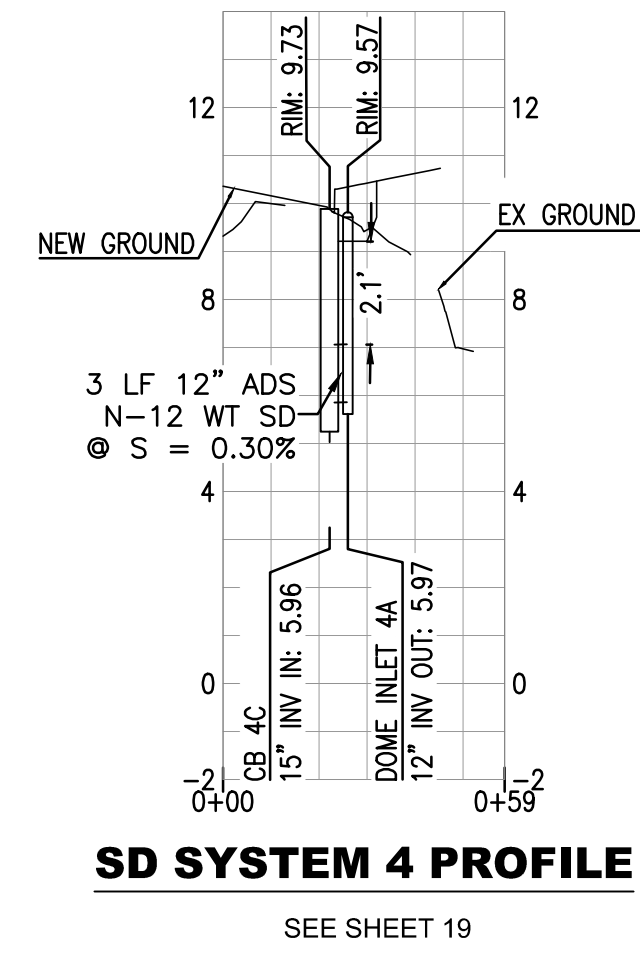


SD SYSTEM 2 PROFILE
SEE SHEET 19

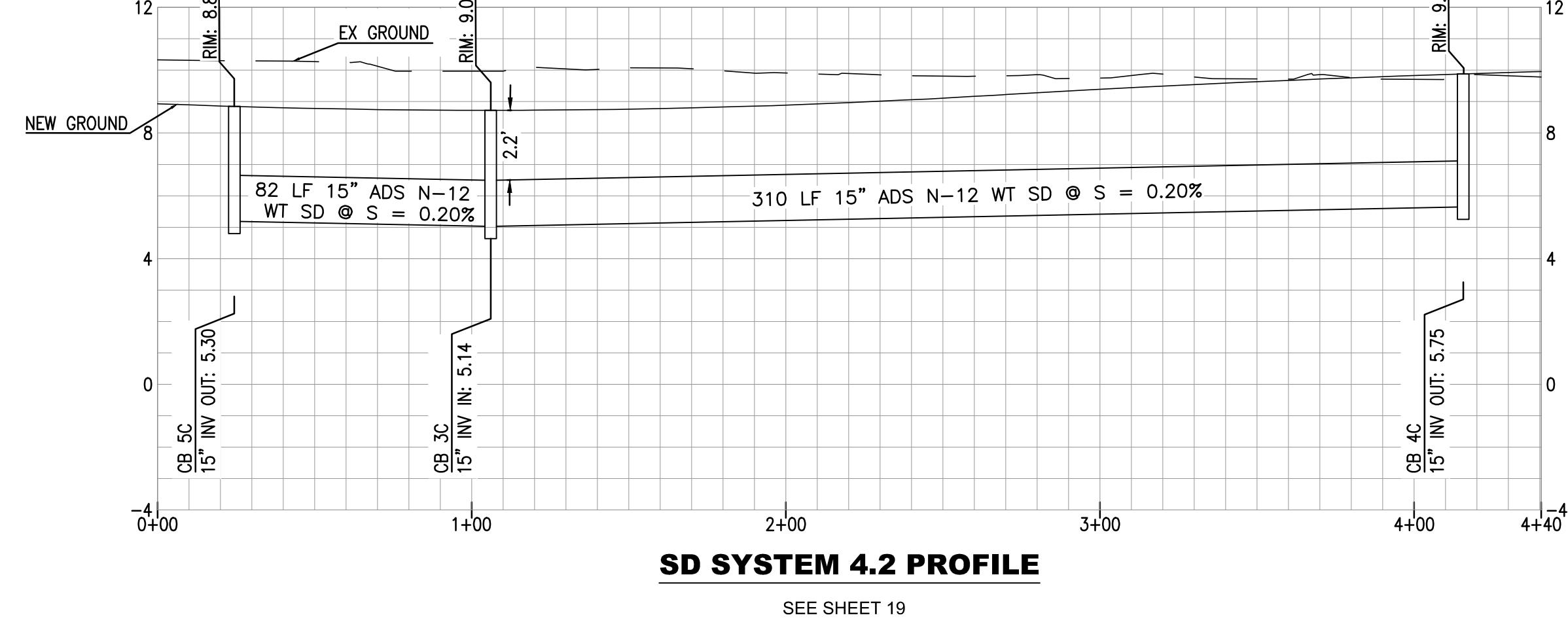


SD SYSTEM 3 PROFILE
SEE SHEET 19

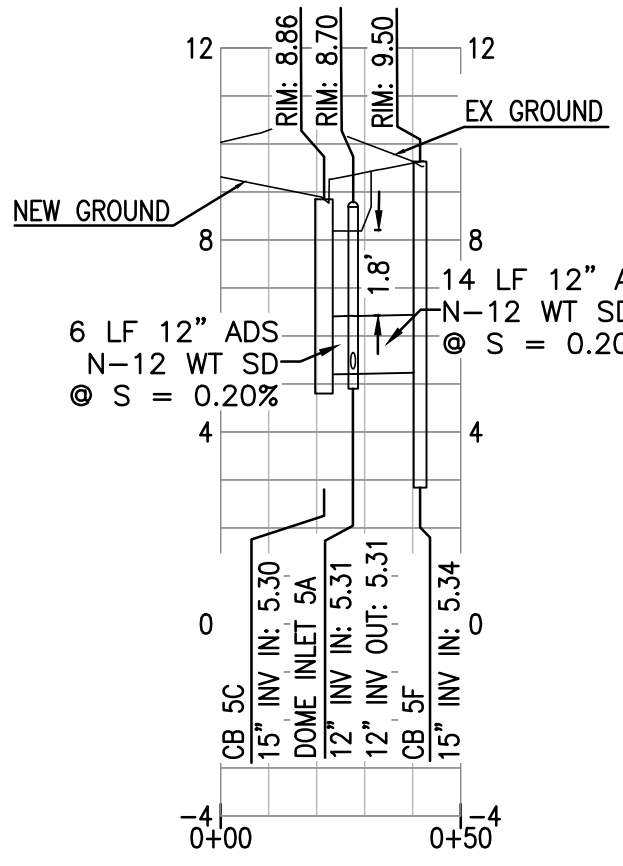
- SD SYSTEM 3 PROFILE NOTES:**
- CALPINE TO DEPRESSURIZE SYSTEM AND PERFORM RELOCATION WORK
 - PG&E GAS TO PERFORM RELOCATION WORK



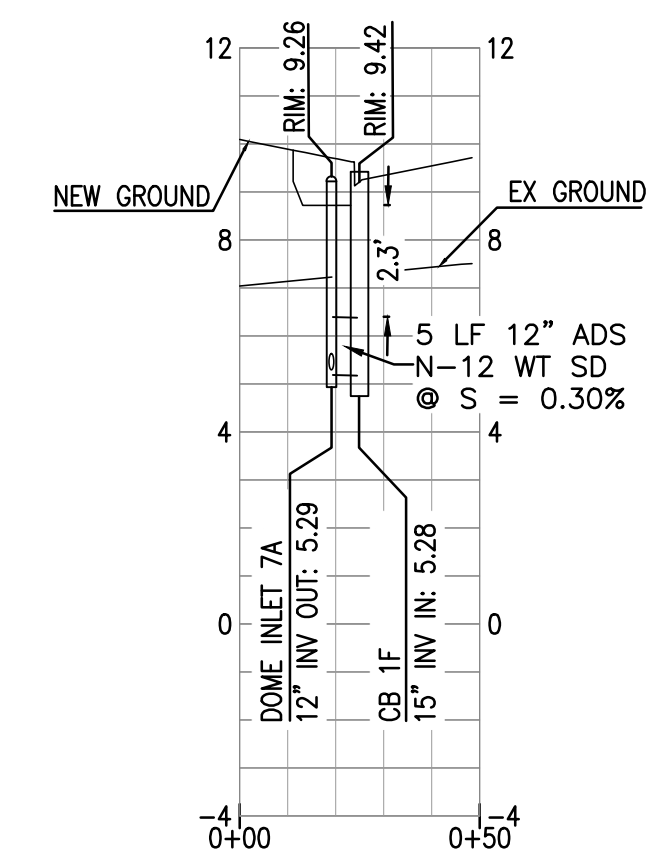
SD SYSTEM 4 PROFILE
SEE SHEET 19



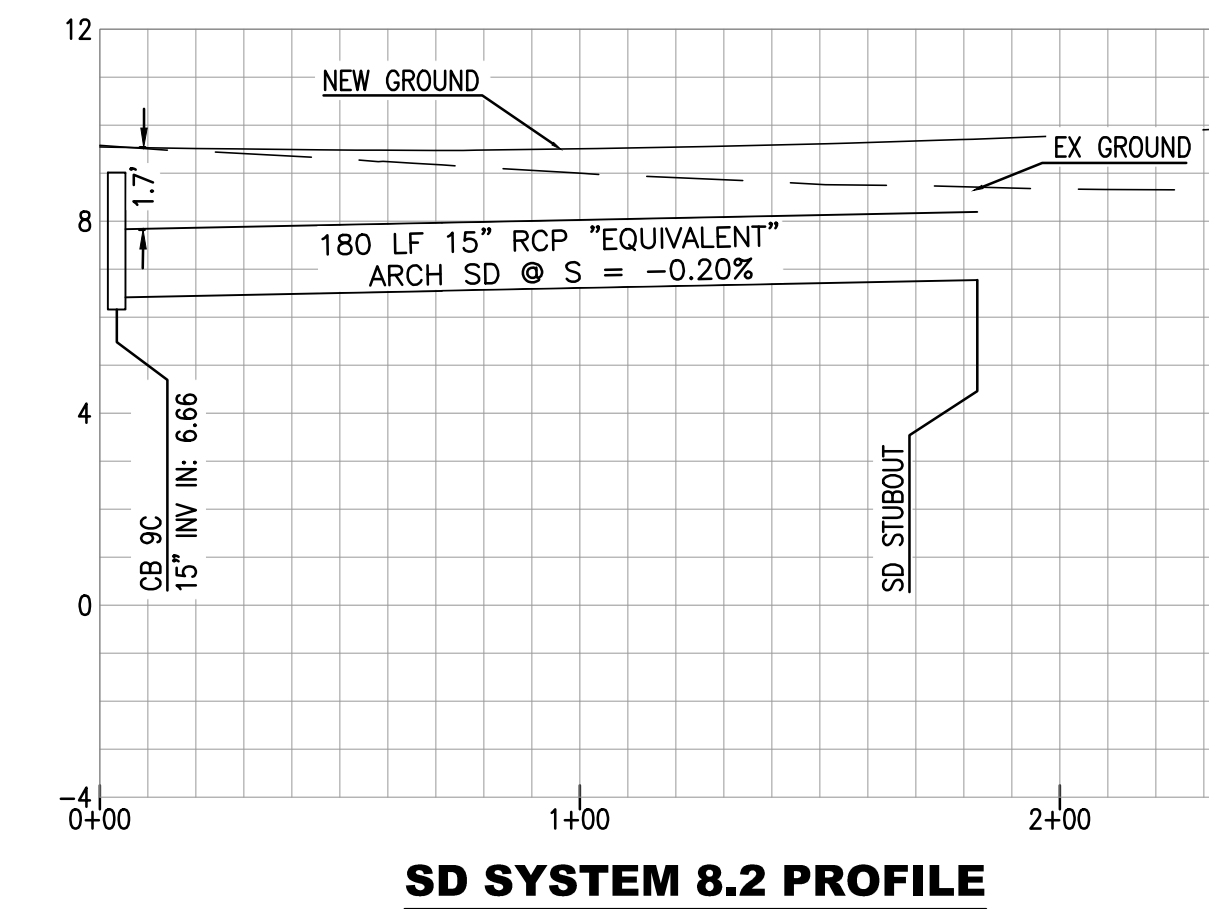
SD SYSTEM 4.2 PROFILE
SEE SHEET 19



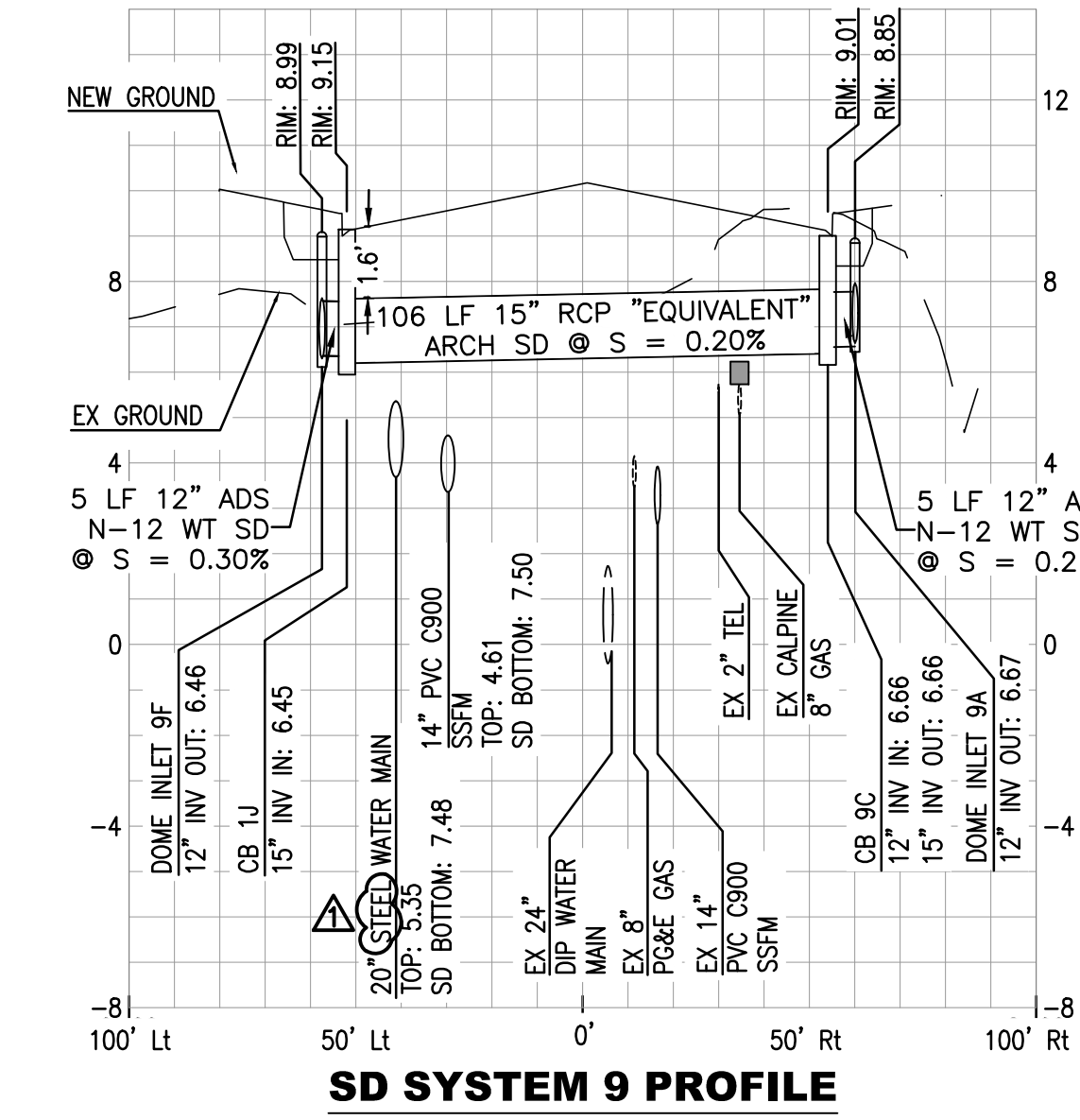
SD SYSTEM 5 PROFILE
SEE SHEET 19



SD SYSTEM 7 PROFILE
SEE SHEET 19

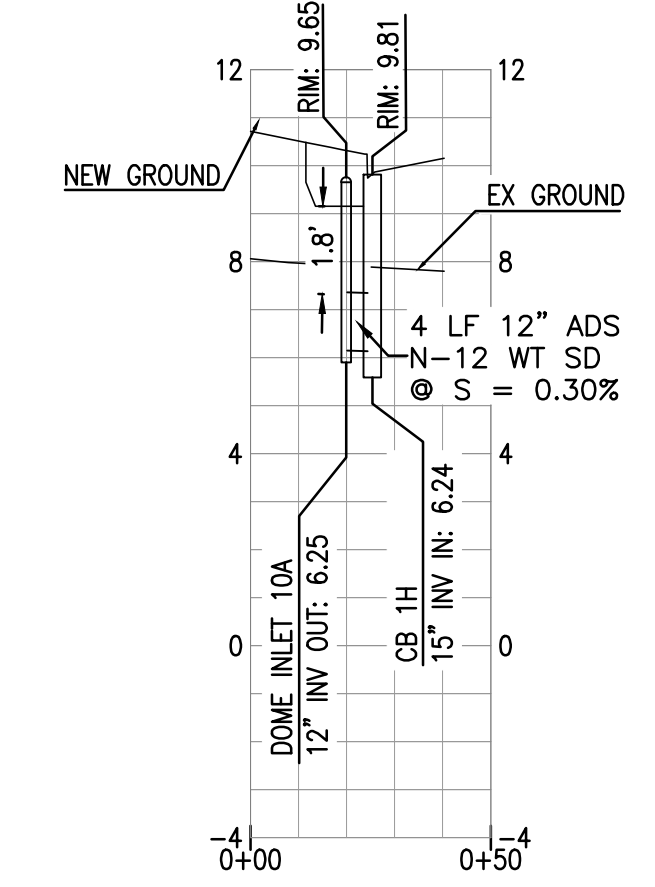


SD SYSTEM 8.2 PROFILE



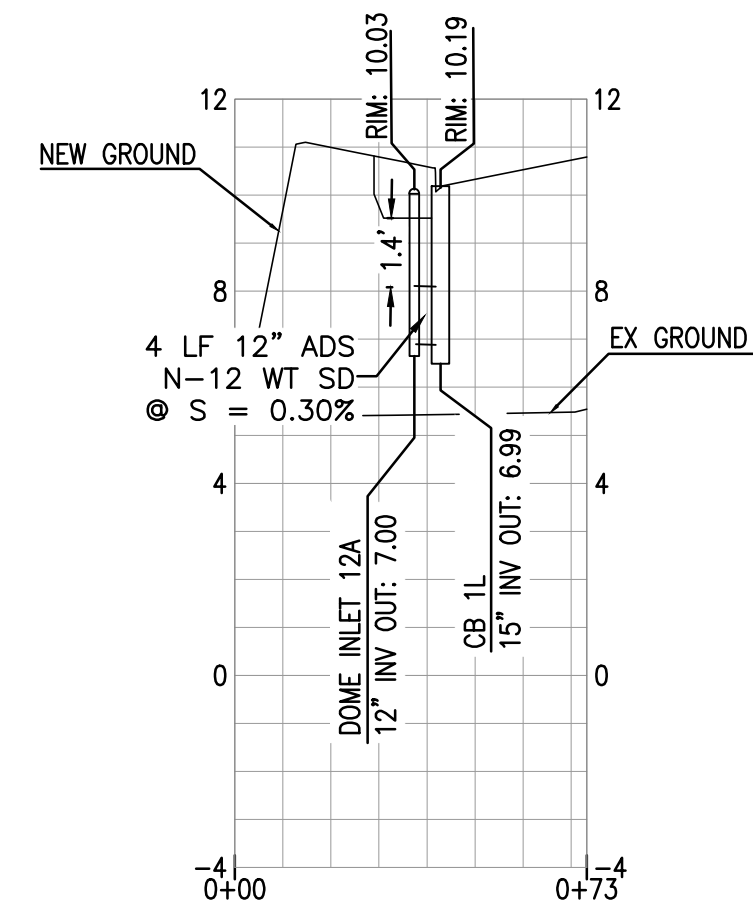
SD SYSTEM 9 PROFILE
SEE SHEET 20

- SD SYSTEM 9 PROFILE NOTES:**
- INSTALL CONCRETE CAP ABOVE CALPINE LINE, SEE SHEET 6, DETAIL 3

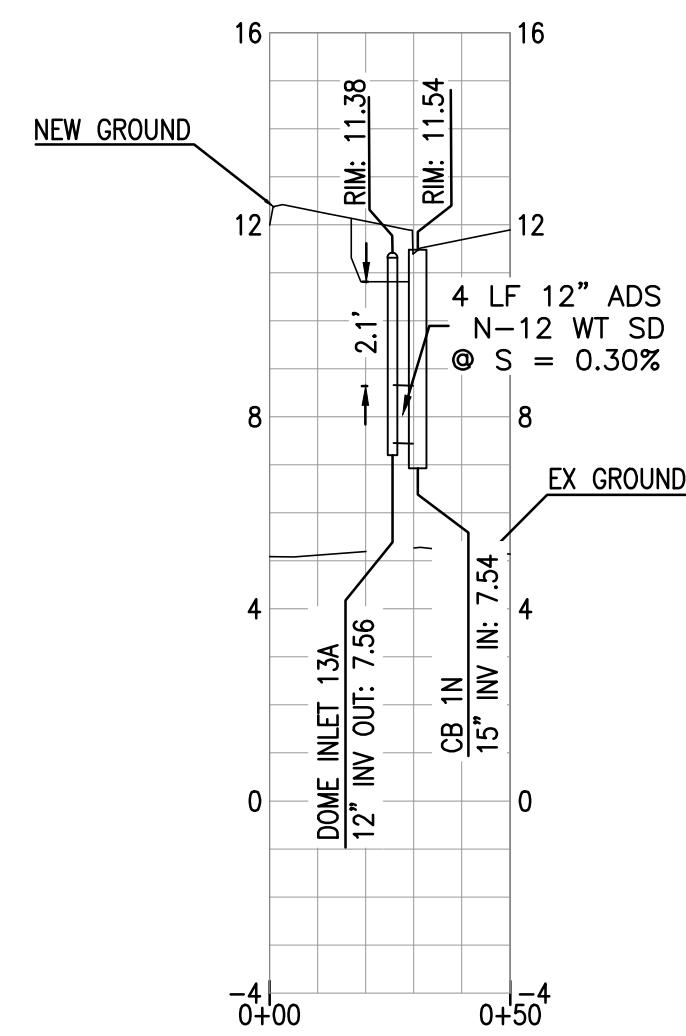


SD SYSTEM 10 PROFILE
SEE SHEET 19

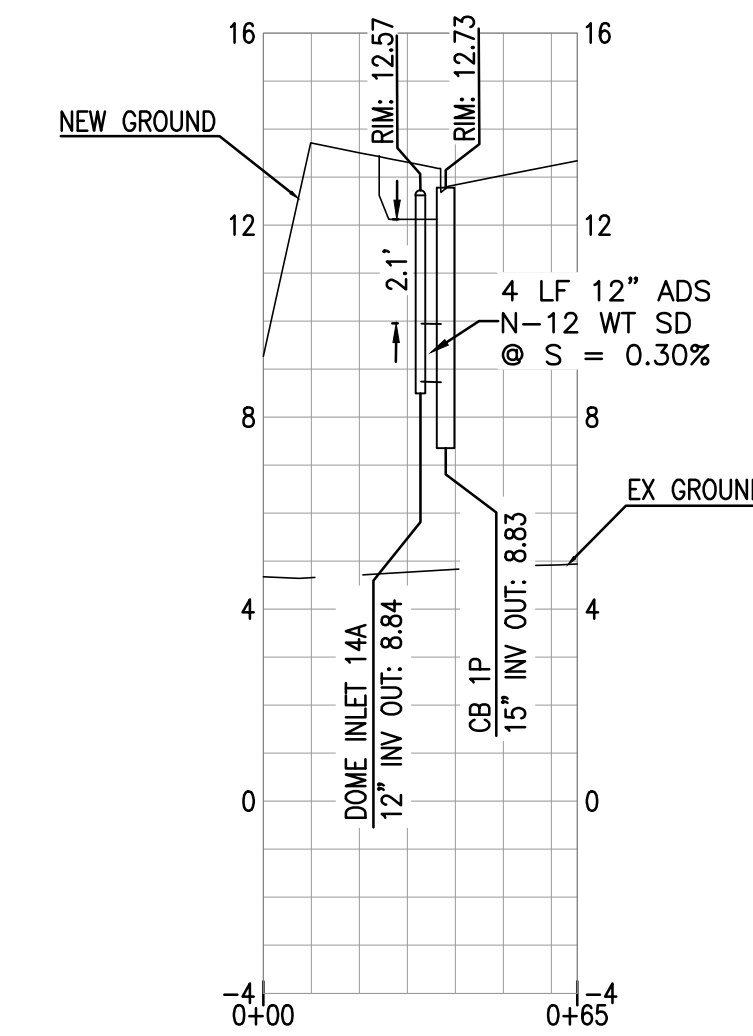
- STORM DRAIN PROFILE GENERAL NOTES:**
- THEORETICAL SIDEWALK ELEVATION IS SHOWN AT BIORETENTION AREAS, SEE BIORETENTION DETAILS FOR ADDITIONAL INFORMATION.



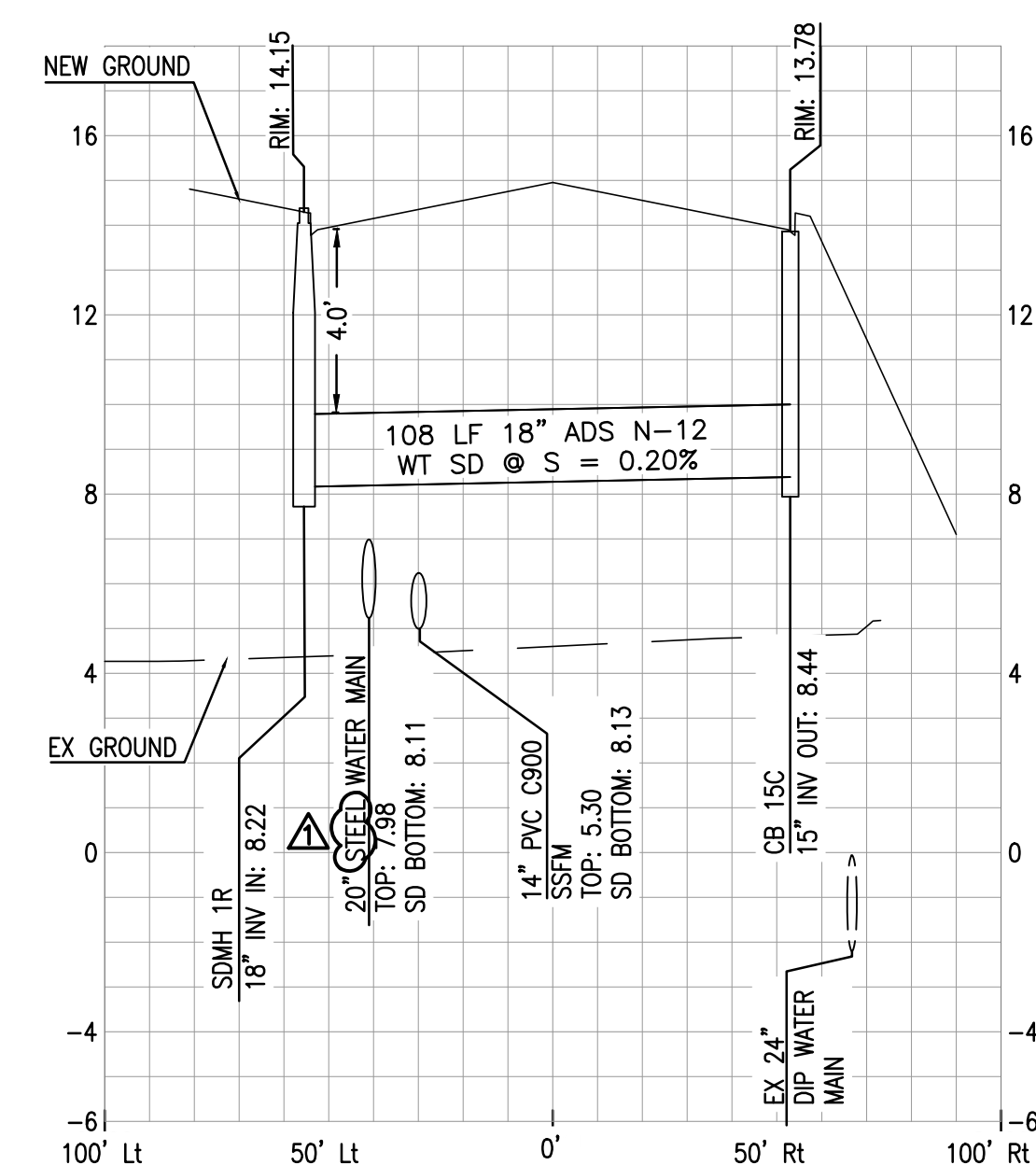
SD SYSTEM 12 PROFILE
SEE SHEET 20



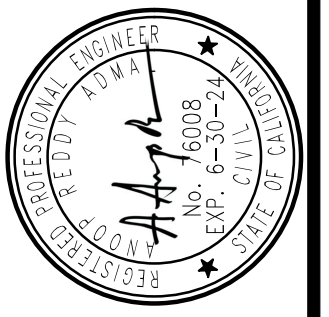
SD SYSTEM 13 PROFILE
SEE SHEET 20



SD SYSTEM 14 PROFILE
SEE SHEET 20



SD SYSTEM 15 PROFILE
SEE SHEET 20



CIP 247 - EAST CYPRESS ROAD WIDENING PROJECT
FROM KNIGHTSEN AVENUE TO JERSEY ISLAND ROAD
STORM DRAIN PROFILES
 CITY OF OAKLEY CONTRA COSTA COUNTY CALIFORNIA

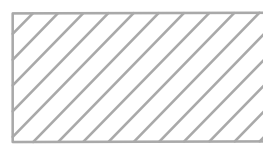
| NO. | REVISIONS | ADDENDUM # |
|-----|-----------|------------|
| 1 | | |

DATE: 09/30/22
 SCALE:
 DESIGN: AA
 DRAWN: ES
 APPROVED: DL
 JOB NO: 21063

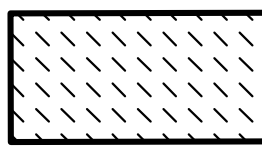
DRAWING NUMBER:
C8.1
32 OF 68



LEGEND



STAGE 1 WORK AREA



TRANSITION ASPHALT, INSTALL 6" TYPE A HMA OVER CLASS 2 AB TO FUTURE SUBGRADE. SEE CROSS-SECTIONS.



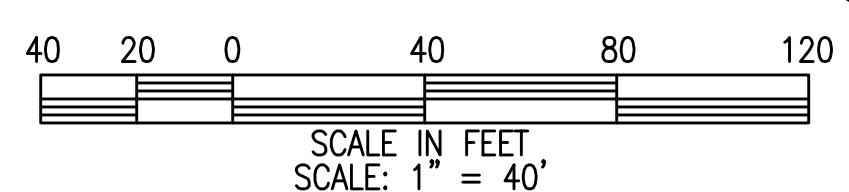
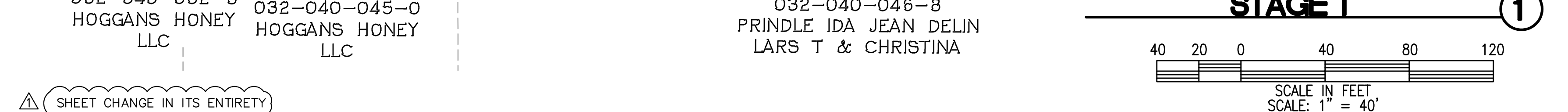
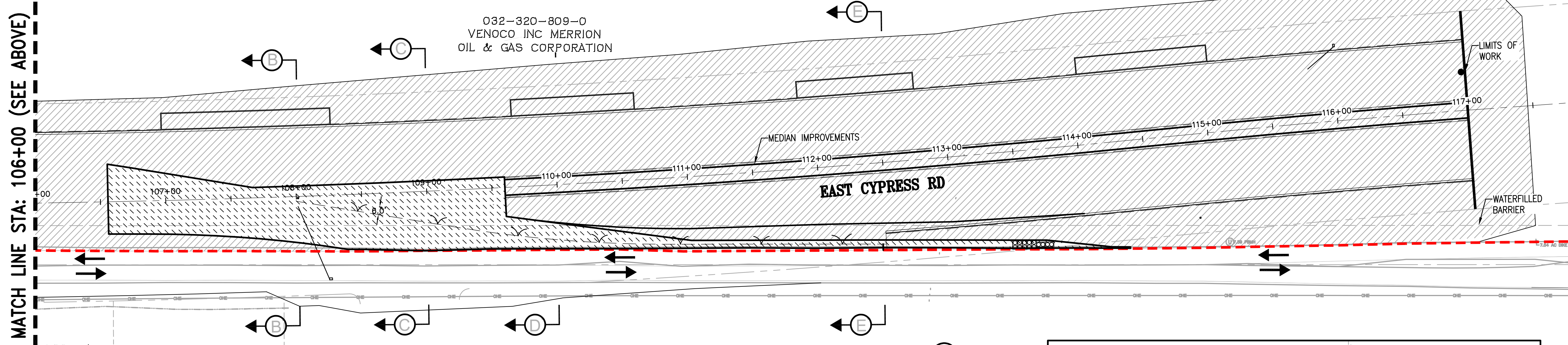
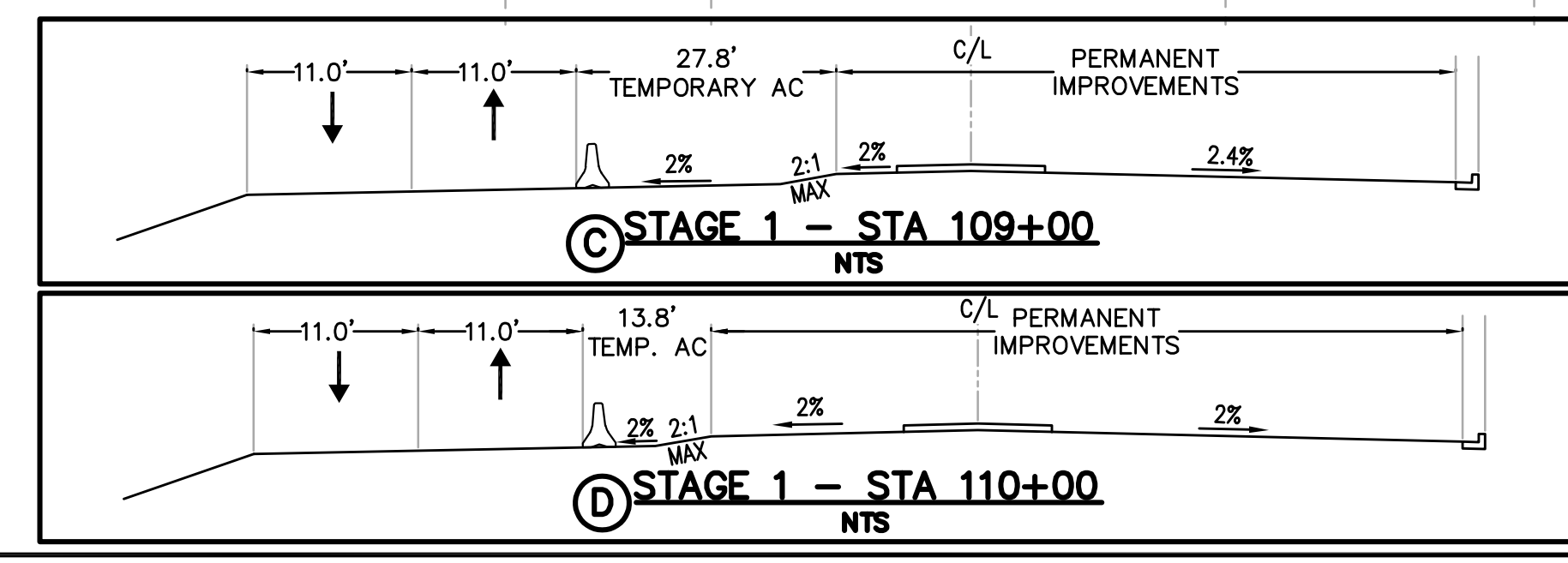
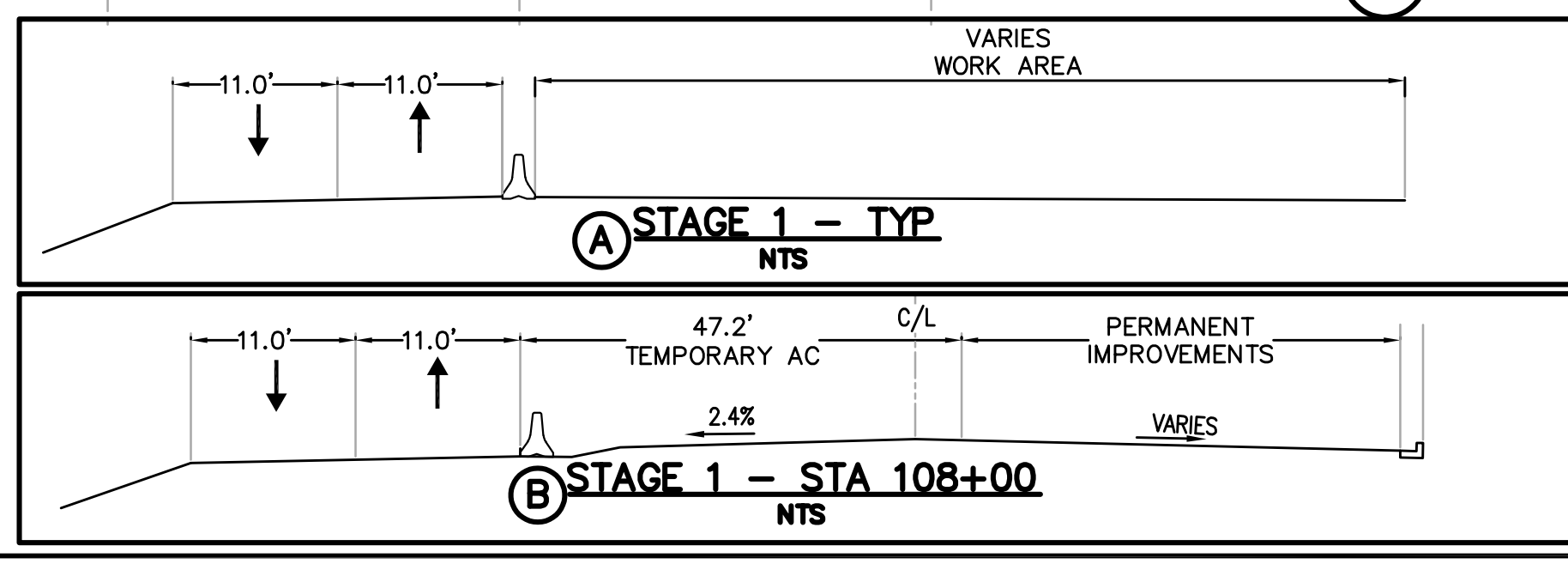
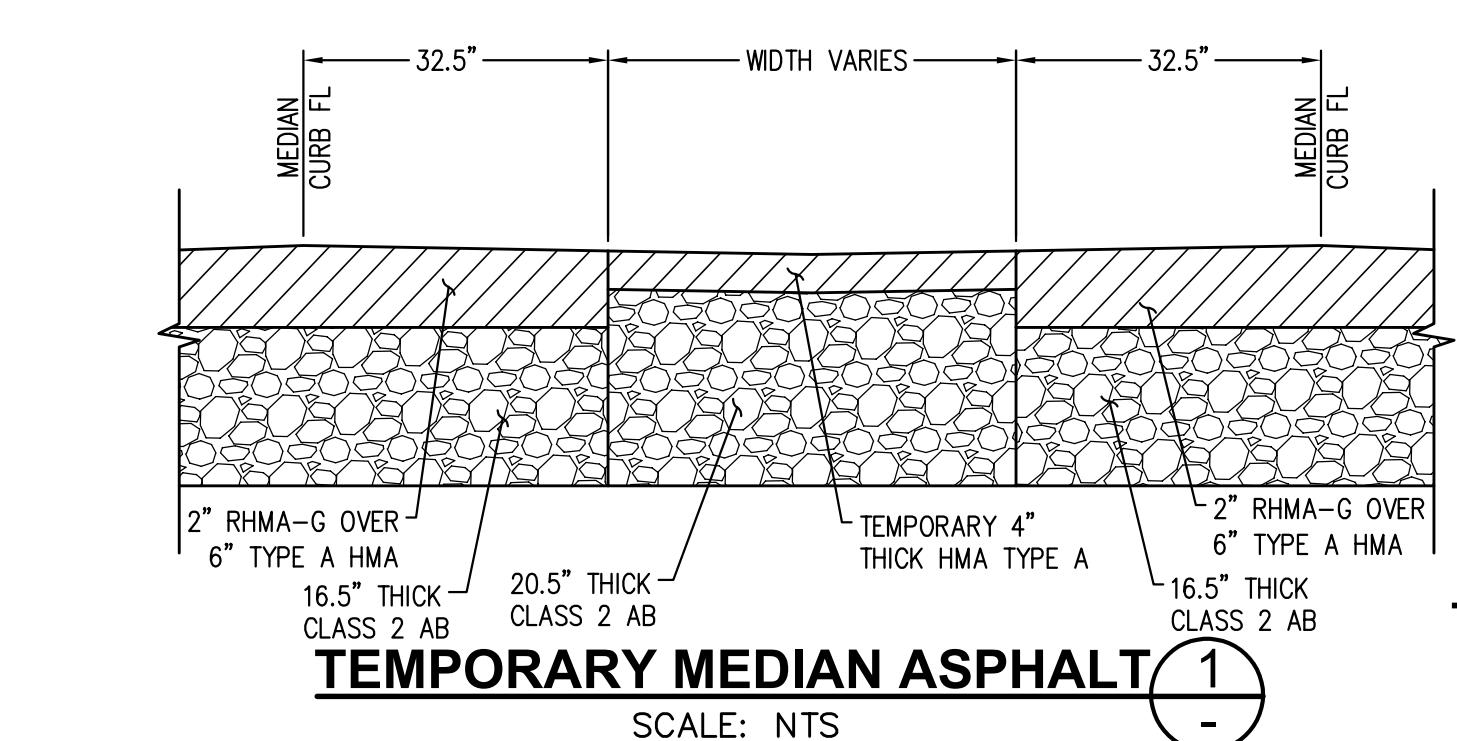
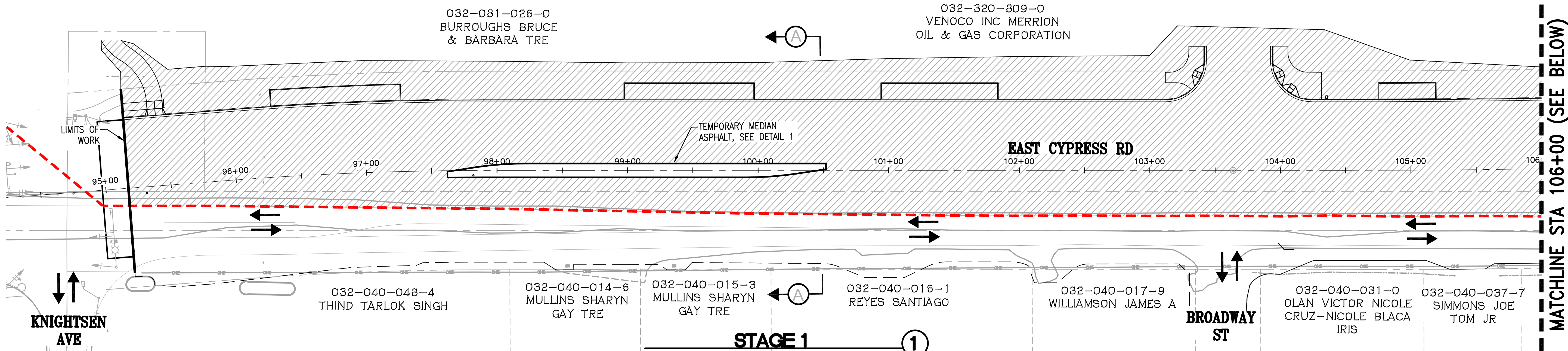
FLOW OF TRAFFIC



WATERFILLED BARRIER

NOTES:

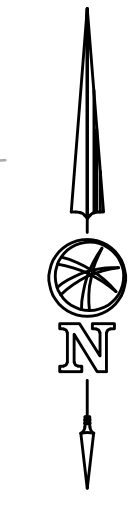
1. INSTALL REDWOOD HEADER BOARD ALONG ASPHALT PAVEMENT EDGE, EXCEPT FOR AT DRIVEWAYS. SEE SHEET G1.6. AT DRIVEWAYS, INSTALL TEMPORARY ASPHALT PAVING CONFORM.



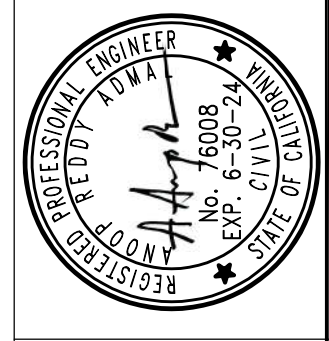
△ SHEET CHANGE IN ITS ENTIRETY

MATCHLINE STA 106+00 (SEE BELOW)

MATCH LINE STA: 106+00 (SEE ABOVE)



Bellecci
Intelligent Infrastructure
bellecci.com
925-685-4569



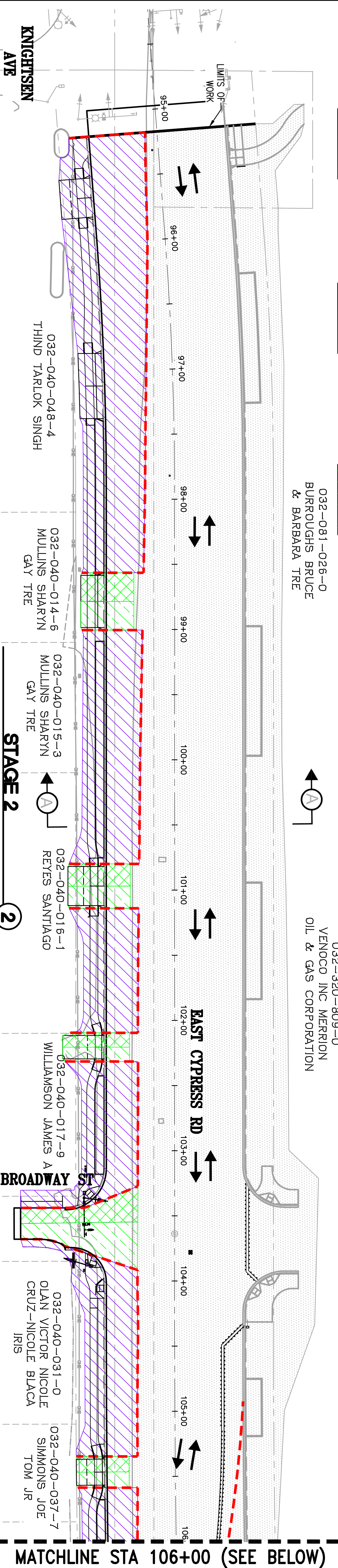
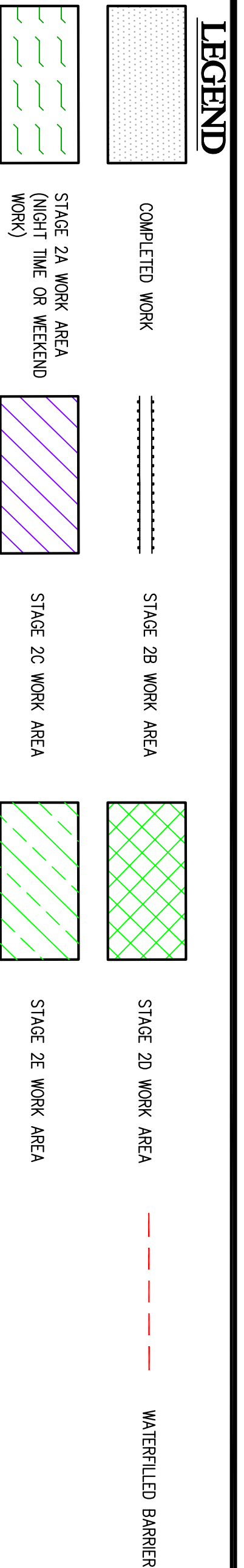
OAKLEY
CALIFORNIA

CIP 247 - EAST CYPRESS ROAD WIDENING PROJECT FROM KNIGHTSEN AVENUE TO JERSEY ISLAND ROAD
EAST CYPRESS ROAD - STAGE 1
CITY OF OAKLEY CONTRA COSTA COUNTY CALIFORNIA

| NO. | REVISIONS |
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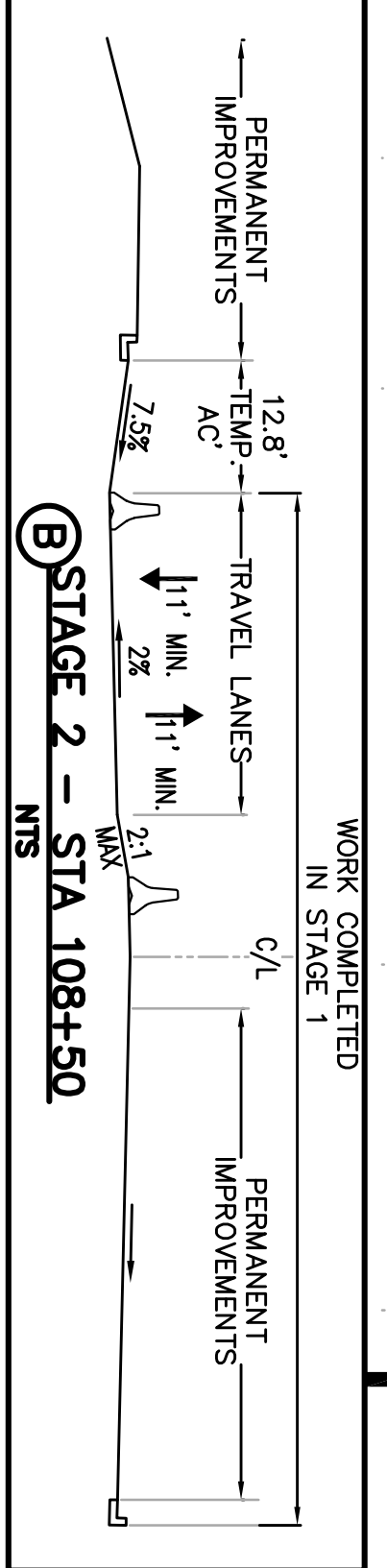
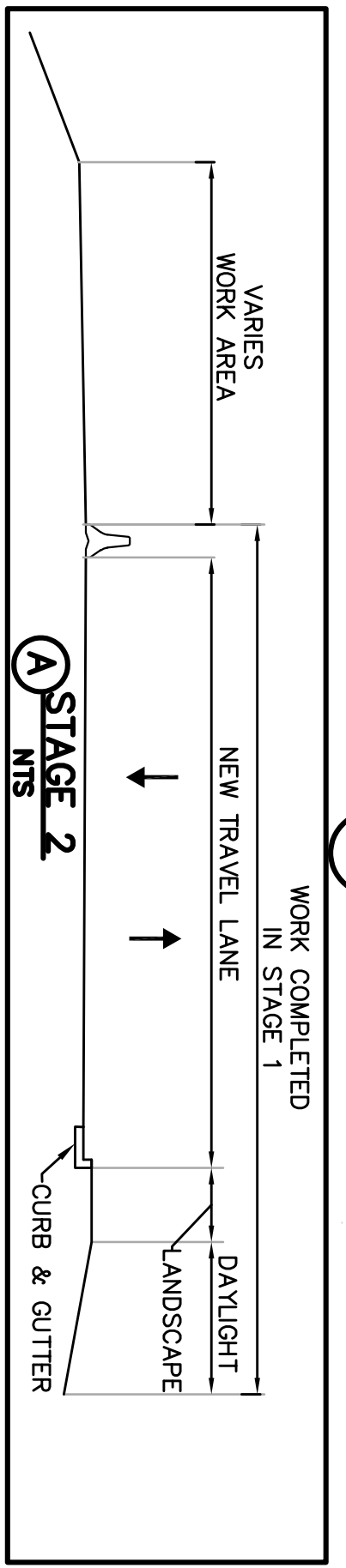
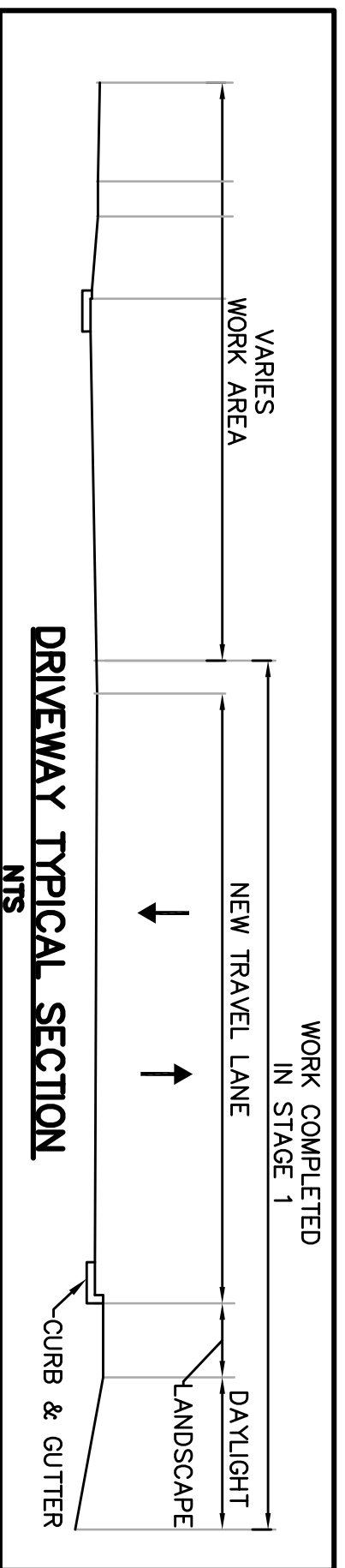
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SCALE: 1" = 40'
DESIGN: AA
DRAWN: ES
APPROVED: DL
JOB NO: 21063

DRAWING NUMBER:
C9.1
33 OF 68

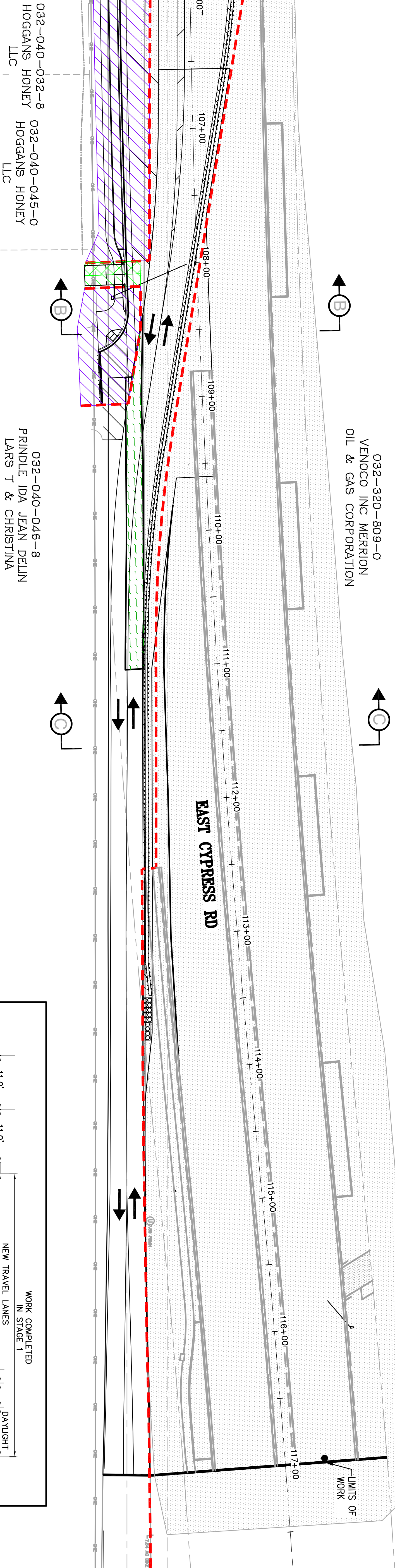


MATCHLINE STA 106+00 (SEE BELOW)

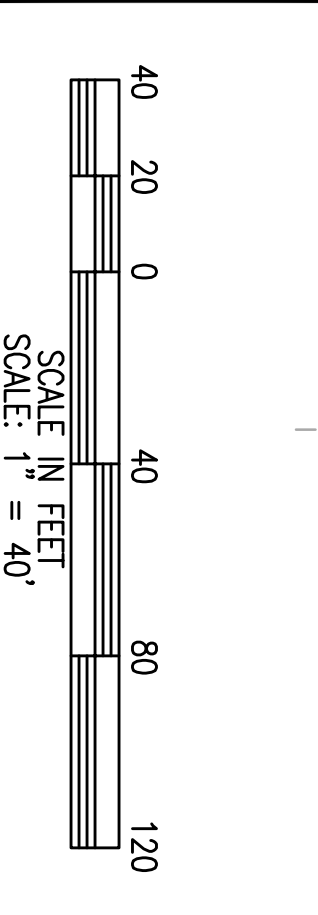
NOTE:
DRIVEWAYS TO BE BUILT IN STAGES
ALLOWING A MINIMUM 10' ACCESS



MATCH LINE STA: 106+00 (SEE ABOVE)

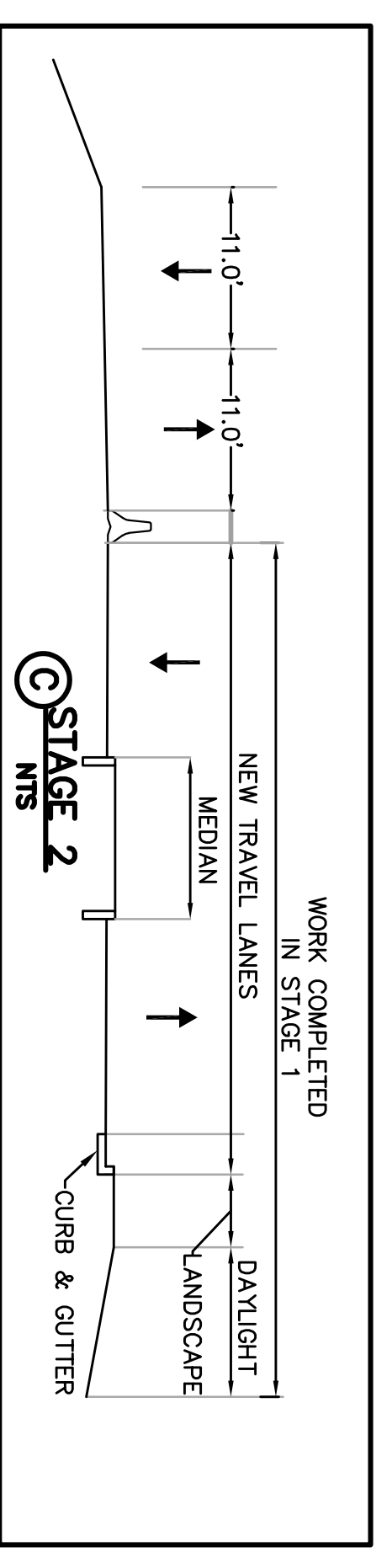


MATCHLINE STA 106+00 (SEE ABOVE)



△ SHEET CHANGE IN ITS ENTIRETY

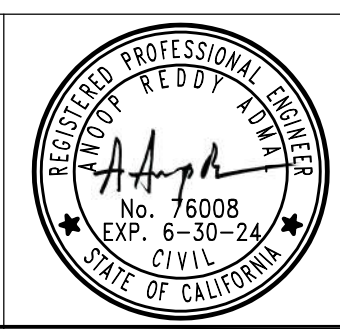
STAGE 2



| NO. | REVISIONS |
|-----|-------------|
| △ | ADDENDUM #1 |

DATE: 09/30/22
SCALE: 1" = 40'
DESIGN: AA
DRAWN: ES
APPROVED: DL
JOB NO: 21063

CIP 247 - EAST CYPRESS ROAD WIDENING PROJECT FROM KNIGHTSEN AVENUE TO JERSEY ISLAND ROAD
EAST CYPRESS ROAD - STAGE 2
CITY OF OAKLEY CONTRA COSTA COUNTY CALIFORNIA





CITY OF OAKLEY
GENERAL NOTES - LANDSCAPE
 PUBLIC WORKS AND ENGINEERING DEPARTMENT
 3231 MAIN STREET
 OAKLEY, CA 94561
 PH. (925) 625-7000 FAX (925) 625-9194

GENERAL NOTES FOR PARK AND LANDSCAPE IMPROVEMENT PLANS
 (Use only those applicable; and/or add Supplemental Notes as necessary.)

GENERAL NOTES:

- STANDARD PLANS AND SPECIFICATIONS:** CONSTRUCT IN ACCORDANCE WITH CITY OF OAKLEY STANDARD PLANS AND PROJECT SPECIFICATIONS, SUBJECT TO INSPECTION AND APPROVAL OF THE CITY OF OAKLEY. ALL CONSTRUCTION SHALL BE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES, BY LICENSED CONTRACTORS AND EXPERIENCED WORKMEN. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES RELATING TO THEIR WORK.
- PLAN REVISIONS:** ALL REVISIONS TO THESE PLANS MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION OF THE REVISION.
- LICENSING:** PRIME CONTRACTOR SHALL POSSESS A VALID CALIFORNIA CLASS 'A' (GENERAL ENGINEERING) LICENSE AT THE TIME THIS CONTRACT IS AWARDED. ATTENTION IS DIRECTED TO THE PROVISIONS OF DIVISION 3, CHAPTER 9 OF THE "BUSINESS AND PROFESSIONS CODE" CONCERNING CONTRACTOR LICENSING.
- VERIFICATION OF EXISTING CONDITIONS:** ALL EXISTING CONDITIONS, ELEVATIONS, DIMENSIONS AND CONSTRUCTION IN THE FIELD PRIOR TO BID. IF ANY DISCREPANCIES ARE NOTED, THE CONTRACTOR SHALL NOTIFY THE CITY OF OAKLEY IMMEDIATELY FOR DIRECTION.
- SAFETY:** CONTRACTOR SHALL PROVIDE ALL SIGNS, BARRICADES OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC AND WORKER SAFETY IN COMPLIANCE WITH THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS AND CAL OSHA.
 CONTRACTOR SHALL POST ON JOB SITE THE EMERGENCY TELEPHONE NUMBERS FOR PUBLIC WORKS, AMBULANCE, POLICE, AND FIRE DEPARTMENTS.
 THE CONTRACTOR SHALL TAKE RESPONSIBLE PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE REASONABLE PROTECTION TO PREVENT DAMAGE, INJURY, OR LOSS TO: EMPLOYEES ON THE SITE AND OTHER PERSONS WHO MAY BE AFFECTED THEREBY; THE WORK, MATERIALS AND EQUIPMENT TO BE INCORPORATED THEREIN, WHETHER IN STORAGE ON OR OFF SITE, UNDER CARE, CUSTODY, OR CONTROL OF THE CONTRACTOR OR THE CONTRACTOR'S SUBCONTRACTORS; AND OTHER PROPERTY AT THE SITE OR ADJACENT THERETO SUCH AS TREES, SHRUBS, TURF, PAVEMENTS, ROADWAYS, STRUCTURES AND UTILITIES.
- UNDERGROUND SERVICE ALERT (USA):** FOR EXISTING UTILITY LOCATIONS, CONTRACTOR SHALL NOTIFY USA, 811 OR (800) 227-2600 AT LEAST TWO (2) FULL WORKING DAYS PRIOR TO ALL PLANNED WORK OPERATIONS. THE USA AUTHORIZATION NUMBER SHALL BE KEPT TO ALL PLANNED WORK OPERATIONS.
- EXISTING UTILITIES, UNDERGROUND FACILITIES AND SITE IMPROVEMENTS:** LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES (UNDERGROUND AND OVERHEAD) AND SITE IMPROVEMENTS, IF SHOWN ON THE PLANS, ARE APPROXIMATE ONLY. FIELD VERIFY LOCATION. PROTECT EXISTING UTILITIES AND SITE IMPROVEMENTS FROM DAMAGE. CONTRACTOR TO TAKE SPECIAL PRECAUTIONS WHEN WORKING NEAR HIGH RISK UTILITIES.
 CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANY TO OBTAIN INFORMATION REGARDING THE EXACT DEPTH OF BURIAL AND HORIZONTAL LOCATION OF UTILITY LINES AS NECESSARY. CONTRACTOR SHALL COORDINATE ALL NECESSARY UTILITY RELOCATIONS AND ADJUSTMENTS WITH THE APPROPRIATE UTILITY COMPANIES.
 PRIOR TO PERFORMING UNDERGROUND CONSTRUCTION, THE CONTRACTOR SHALL MAKE THE NECESSARY PROBES TO IDENTIFY AREAS OF POSSIBLE CONFLICT WITH PROPOSED CONSTRUCTION AS NEEDED. CONTRACTOR SHALL EXCAVATE TO DETERMINE TYPES, EXTENT, SIZE, AND DEPTHS OF UNDERGROUND UTILITIES. COORDINATE WORK TO AVOID CONFLICTS BETWEEN PROPOSED IMPROVEMENTS AND EXISTING UNDERGROUND FACILITIES, SEWER LATERALS, STORM DRAINS AND WATER MAINS.
 CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION AND BE HELD ACCOUNTABLE FOR ALL DAMAGES INCURRED.
 EXISTING IRRIGATION MAINLINE SHALL BE LOCATED AND MARKED AND IRRIGATION WIRE SHALL BE TRACED PRIOR TO EXCAVATION.
- UTILITY REPAIR:** CONTRACTOR SHALL REPAIR ANY DAMAGE OR INTERRUPTION OF UTILITIES, WATER LINES OR IRRIGATION SYSTEMS WITHIN 48 HOURS OF THE TIME OF DAMAGE.
- PRE-CONSTRUCTION:** PRIOR TO THE START OF CONSTRUCTION, THE DEVELOPER AND/OR CONTRACTOR SHALL CONTACT THE CITY'S PARKS AND LANDSCAPE MAINTENANCE, PUBLIC WORKS DEPARTMENT AT (925) 625-7015 AND REQUEST A PRECONSTRUCTION CONFERENCE. CONTRACTOR SHALL NOT COMMENCE WORK UNTIL AFTER A PRE-CONSTRUCTION MEETING HAS BEEN HELD WITH THE CITY OF OAKLEY, SUBMITTALS ARE APPROVED AND A PROJECT SCHEDULE HAS BEEN PROVIDED.
- STAKING:** CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LINES AND GRADES FOR THE PROJECT. THE CONSTRUCTION STAKING WORK SHALL BE COMPLETED UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR. SEE CIVIL PLANS.
- TRAFFIC CONTROL:** TRAFFIC CONTROL SHALL MEET CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS. SEE CIVIL PLANS.
- CONSTRUCTION AREA SIGNS:** LOCATION OF CONSTRUCTION AREA SIGNS SHALL BE REVIEWED AND APPROVED BY THE CITY OF OAKLEY PRIOR TO STARTING CONSTRUCTION ACTIVITIES. SEE CIVIL PLANS.
- COORDINATION:** GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL OF THE WORK PERFORMED BY HIS SUBCONTRACTORS WITHOUT EXCEPTION. CONTRACTOR SHALL MAINTAIN A QUALIFIED SUPERVISOR ON THE SITE AT ALL TIMES DURING CONSTRUCTION AND THROUGH THE COMPLETION OF THE PROJECT.

- TOILET FACILITIES:** CONTRACTOR SHALL PROVIDE PORTABLE SANITARY FACILITIES ADEQUATE FOR ALL WORKERS. THE TYPE OF TOILETS USED, THEIR LOCATIONS AND MAINTENANCE ARE SUBJECT TO APPROVAL BY THE CITY. SEE CIVIL PLANS.
- EROSION CONTROL, DUST CONTROL AND SWPPP:** CONFORM TO SPECIFICATIONS. ANY OPERATIONS THAT CREATE DUST MUST BE STOPPED IMMEDIATELY AND REMEDIAL ACTIONS TAKEN, SUBSEQUENTLY, CONTRACTOR SHALL REMOVE MUD TRACKS FROM STREETS OR ADJACENT PROPERTIES AND SWEEP STREETS, AS DIRECTED BY THE CITY INSPECTOR. THE CONTRACTOR SHALL MAINTAIN THE PROJECT SITE THROUGHOUT THE PROCESS OF WORK IN A REASONABLE, DRY, WORKABLE CONDITION, FREE OF SURFACE WATER. SEE CIVIL PLANS.
- MATCHING EXISTING CONDITIONS:** CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING PAVING, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING AND GRADING, ETC., AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES, CROSS SLOPES, LOW SPOTS, OR HAZARDOUS CONDITIONS. WHERE PAVEMENT IS TO BE EXTENDED, THE EXISTING EDGE OF PAVEMENT TO BE REMOVED MUST BE NEATLY SAWCUT OR REMOVED TO AN EXPANSION JOINT. SEE CIVIL PLANS.
- FIELD CHANGES:** CONTRACTOR SHALL NOTIFY CITY'S REPRESENTATIVE IMMEDIATELY UPON DISCOVERY OF ANY POTENTIAL FIELD CHANGES. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE CITY.
- PAVING REMOVAL AT NEW MEDIAN PLANTING AREAS:** REMOVE CONCRETE, ASPHALT, AND AGGREGATE BASE MATERIAL TO 24 INCHES DEEP, WITHIN MEDIAN PLANTING AREA TO THE BACK OF CURB FOR PROPER INSTALLATION OF LANDSCAPE IMPROVEMENTS. SEE CIVIL PLANS.
- EXISTING TREE AND PLANTING REMOVAL:** SEE DEMOLITION PLAN, A TREE PERMIT MAY BE REQUIRED FOR THE TREE REMOVAL. SEE CIVIL PLANS.
- HAULING:** WHEN HAULING ANY EARTH, SAND, GRAVEL, STONE, DEBRIS, PAPER OR ANY OTHER SUBSTANCE OVER ANY PUBLIC STREET, ALLEY OR PUBLIC PLACE, NO PERSON SHALL ALLOW MATERIAL TO BLOW OR SPILL OVER AND UPON SAID PUBLIC, ADJACENT OR PRIVATE PROPERTY.
- SITE RESTORATION:** CONTRACTOR SHALL REPLACE OR RESTORE TO PRECONSTRUCTION CONDITION ALL PAVING, UTILITIES, SERVICES, IRRIGATION, LANDSCAPE MATERIALS, PAVEMENT DELINEATION AND OTHER IMPROVEMENTS, THAT ARE NOT TO BE REMOVED BUT ARE DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL EXPENSE AND TO THE SATISFACTION OF THE CITY OF OAKLEY. INSTALLATION SHALL COMPLY WITH CURRENT CITY OF OAKLEY STANDARDS.
 EXISTING IRRIGATION LINES CONTAMINATED SHALL BE FLUSHED THOROUGHLY PRIOR TO RECONNECTION TO IRRIGATION SYSTEM.
- CLEAN-UP:** CLEAN CITY STREETS AS OFTEN AS REQUIRED TO REMOVE ANY ACCUMULATION OF MUD AND DEBRIS RESULTING FROM THE CONSTRUCTION.
- PHOTOGRAPHY:** CITY WILL RESERVE THE RIGHT TO TAKE PHOTOGRAPHS AND VIDEOS DURING THE COURSE OF CONSTRUCTION.

LAYOUT NOTES

- REFER TO CIVIL DRAWINGS FOR ALL STORMWATER TREATMENT AREA LOCATIONS AND ELEVATIONS.
- ALL LANDSCAPE GRADING DOES NOT EXCEED 10%, REFER TO CIVIL DRAWINGS.
- ALL EXISTING TREES TO BE REMOVED. SEE CIVIL DRAWINGS FOR ALL EXISTING TREES WITHIN THE LIMIT OF WORK.

| IMPERVIOUS HARDSCAPE | |
|----------------------|----------------|
| NAME | SQUARE FOOTAGE |
| CONCRETE PAVING | S.C.D. |
| A.C. PAVING | S.C.D. |
| PERVIOUS HARDSCAPE | |
| NAME | SQUARE FOOTAGE |
| PERMEABLE PAVERS | 6,678 |

PLANTING SCHEDULE

| TREES | BOTANICAL NAME | COMMON NAME | SIZE | WATER USE | SPACING | SPACING | QTY |
|--------|---|---------------------------------|---------|-----------|-------------|----------|-----|
| LAM | LAGERSTROEMIA INDICA X FAURIEI 'MUSKOGEE' | MUSKOGEE CRAPE MYRTLE | 24" BOX | L | 15'H X 15'W | AS SHOWN | 9 |
| QOV | QUERCUS VIRGINIANA | SOUTHERN LIVE OAK | 36" BOX | L | 50'H X 30'W | AS SHOWN | 16 |
| SHRUBS | BOTANICAL NAME | COMMON NAME | SIZE | WATER USE | SPACING | SPACING | QTY |
| CL | CALLISTEMON VIMINALIS 'LITTLE JOHN' | LITTLE JOHN WEeping BOTTLEBRUSH | 5 GAL | L | 3'H X 4'W | 48" o.c. | 262 |
| CE | CHONDROPETALUM TECTORUM 'EL CAMPO' | EL CAMPO SMALL CAPE RUSH | 1 GAL | L | 3'H X 3'W | 36" o.c. | 813 |
| FM | FESTUCA MAIREI | ATLAS FESCUE | 1 GAL | L | 3'H X 3'W | 36" o.c. | 54 |
| LI | LOMANDRA LONGIFOLIA 'BREEZE' TM | BREEZE MAT RUSH | 1 GAL | L | 2'H X 3'W | 36" o.c. | 189 |
| ML | MIMULUS X 'JELLY BEAN ORANGE' | JELLY BEAN ORANGE MONKEYFLOWER | 1 GAL | L | 2'5 X 2.5'W | 30" o.c. | 391 |
| MD | MUHLENBERGIA DUBIA | PINE MUHLY | 1 GAL | L | 3'H X 3'W | 36" o.c. | 313 |
| RI | ROSA X 'MEIJOCOS' TM | PINK DRIFT GROUNDCOVER ROSE | 2 GAL | L | 3'H X 3'W | 36" o.c. | 23 |
| TP | TEUCRIUM CHAMAEDRYIS 'PROSTRATUM' | PROSTRATE GERMANDER | 1 GAL | L | 2'H X 3'W | 36" o.c. | 46 |
| TC | TEUCRIUM FRUTICANS 'COMPACTUM' | COMPACT BUSH GERMANDER | 1 GAL | L | 3'H X 4'W | 48" o.c. | 48 |

PLANTING LEGEND

| | | | |
|-----------|------------------------|-----------------------------------|-------------|
| XXX ## | TREE NAME QUANTITY | SEE PLANT LIST FOR ADD'L INFO. | 1-4 L3.1 |
| XX ## | SHRUB NAME QUANTITY | SEE PLANT LIST FOR ADD'L INFO. | 5-6 L3.1 |

WATER USE RATING LEGEND:
 WUCOLS IV CATEGORIES OF WATER NEEDS FROM: UNIVERSITY OF CALIF COOPERATIVE EXTENSION, CALIF. DEPARTMENT OF WATER RESOURCES, U.S. BUREAU OF RECLAMATION.
 H = HIGH L = LOW
 M = MODERATE VL = VERY LOW

LANDSCAPE AND IRRIGATION MAINTENANCE SCHEDULE, IRRIGATION AUDIT, IRRIGATION SURVEY, AND IRRIGATION WATER USE ANALYSIS SHALL BE SUBMITTED WITH THE CERTIFICATE OF COMPLETION IN COMPLIANCE WITH STATE OF CALIFORNIA MODEL WATER EFFICIENT LANDSCAPE ORDINANCE.

I HAVE COMPLIED WITH THE CRITERIA OF THE STATE OF CALIFORNIA MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN PLAN.
 LANDSCAPE ARCHITECT SIGNATURE AND DATE *[Signature]* 2022-08-12.

GATES + ASSOCIATES
 LANDSCAPE ARCHITECTURE
 LAND PLANNING - URBAN DESIGN
 17121 - 742-7471 www.gatesassoc.com



OAKLEY CALIFORNIA

CIP 247 - EAST CYPRESS ROAD WIDENING PROJECT FROM KNIGHTSEN AVENUE TO JERSEY ISLAND ROAD
NOTES AND PLANT SCHEDULE
 CITY OF OAKLEY CONTRA COSTA COUNTY CALIFORNIA

| NO. | DATE | REVISIONS |
|-----|----------|---------------|
| 1 | 09/30/22 | SCALE: 1"=20' |
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| 3 | | DRAWN: MF, GM |
| 4 | | APPROVED: DL |
| 5 | | JOB NO: 21063 |

DRAWING NUMBER:

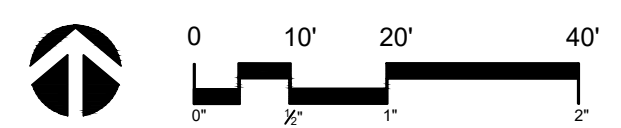
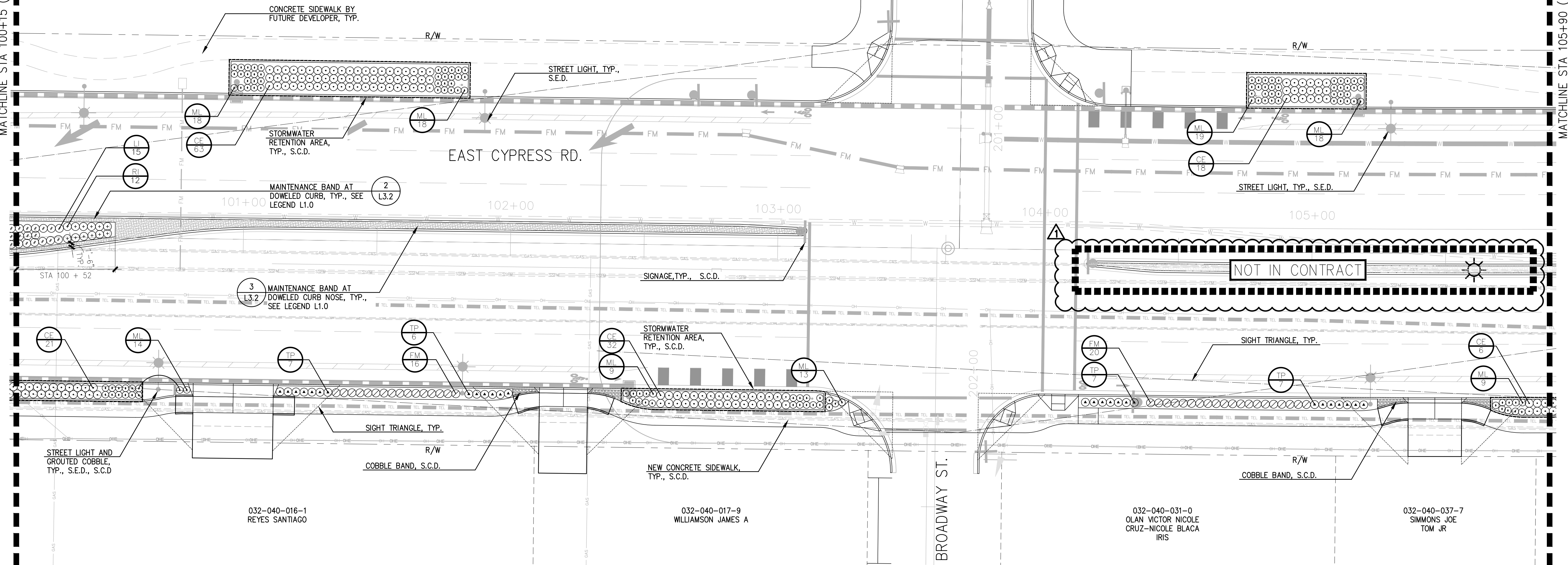
L1.1
52 OF 68

MATCHLINE STA 100+15 (SEE SHEET L2.1)

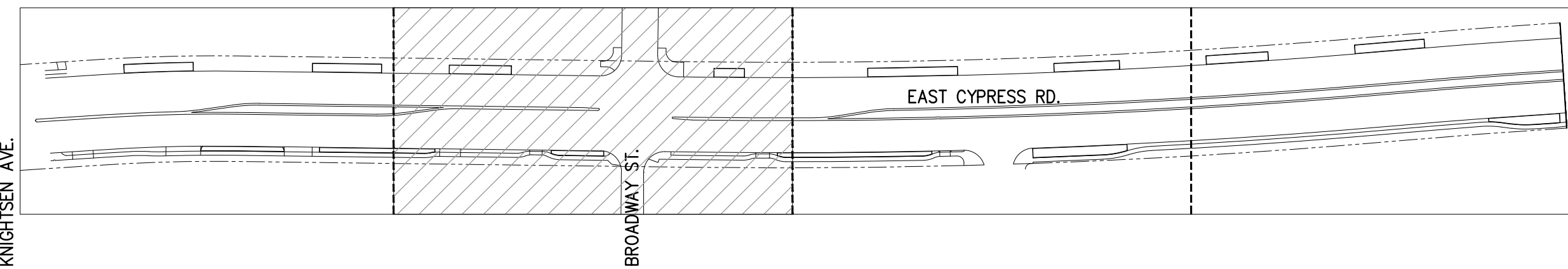
MATCHLINE STA 105+90 (SEE SHEET L2.3)

032-320-809-0
VENECO INC MERRION OIL
& GAS CORPORATION

032-320-809-0
VENECO INC MERRION OIL
& GAS CORPORATION



KEY MAP



PLANT SCHEDULE

| TREES | BOTANICAL NAME | COMMON NAME | SIZE | WATER USE | SPACING | SPACING | QTY |
|--------|---|---------------------------------|---------|-----------|--------------|----------|-----|
| LAM | LAGERSTROEMIA INDICA X FAURIEI 'MUSKOGEE' | MUSKOGEE CRAPE MYRTLE | 24" BOX | L | 15'H X 15'W | AS SHOWN | 9 |
| QUV | QUERCUS VIRGINIANA | SOUTHERN LIVE OAK | 36" BOX | L | 50'H X 30'W | AS SHOWN | 16 |
| SHRUBS | BOTANICAL NAME | COMMON NAME | SIZE | WATER USE | SPACING | SPACING | QTY |
| CL | CALLISTEMON VIMINALIS 'LITTLE JOHN' | LITTLE JOHN WEeping BOTTLEBRUSH | 5 GAL | L | 3'H X 4'W | 48" o.c. | 262 |
| CE | CHONDROPETALUM TECTORUM 'EL CAMPO' | EL CAMPO SMALL CAPE RUSH | 1 GAL | L | 3'H X 3'W | 36" o.c. | 813 |
| FM | FESTUCA MAIREI | ATLAS FESCUE | 1 GAL | L | 3'H X 3'W | 36" o.c. | 54 |
| LI | LOMANDRA LONGIFOLIA 'BREEZE' TM | BREEZE MAT RUSH | 1 GAL | L | 2'H X 3'W | 36" o.c. | 189 |
| ML | MIMULUS X 'JELLY BEAN ORANGE' | JELLY BEAN ORANGE MONKEYFLOWER | 1 GAL | L | 2'5" X 2.5'W | 30" o.c. | 391 |
| MD | MUHLENBERGIA DUBIA | PINE MUHLY | 1 GAL | L | 3'H X 3'W | 36" o.c. | 313 |
| RI | ROSA X 'MEIJOCOS' TM | PINK DRIFT GROUNDCOVER ROSE | 2 GAL | L | 3'H X 3'W | 36" o.c. | 23 |
| TP | TEUCRIUM CHAMAEDRYIS 'PROSTRATUM' | PROSTRATE GERMANDER | 1 GAL | L | 2'H X 3'W | 36" o.c. | 46 |
| TC | TEUCRIUM FRUTICANS 'COMPACTUM' | COMPACT BUSH GERMANDER | 1 GAL | L | 3'H X 4'W | 48" o.c. | 48 |

GATES + ASSOCIATES
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1712 - 742-7171 www.gatesassoc.com



OAKLEY
CALIFORNIA

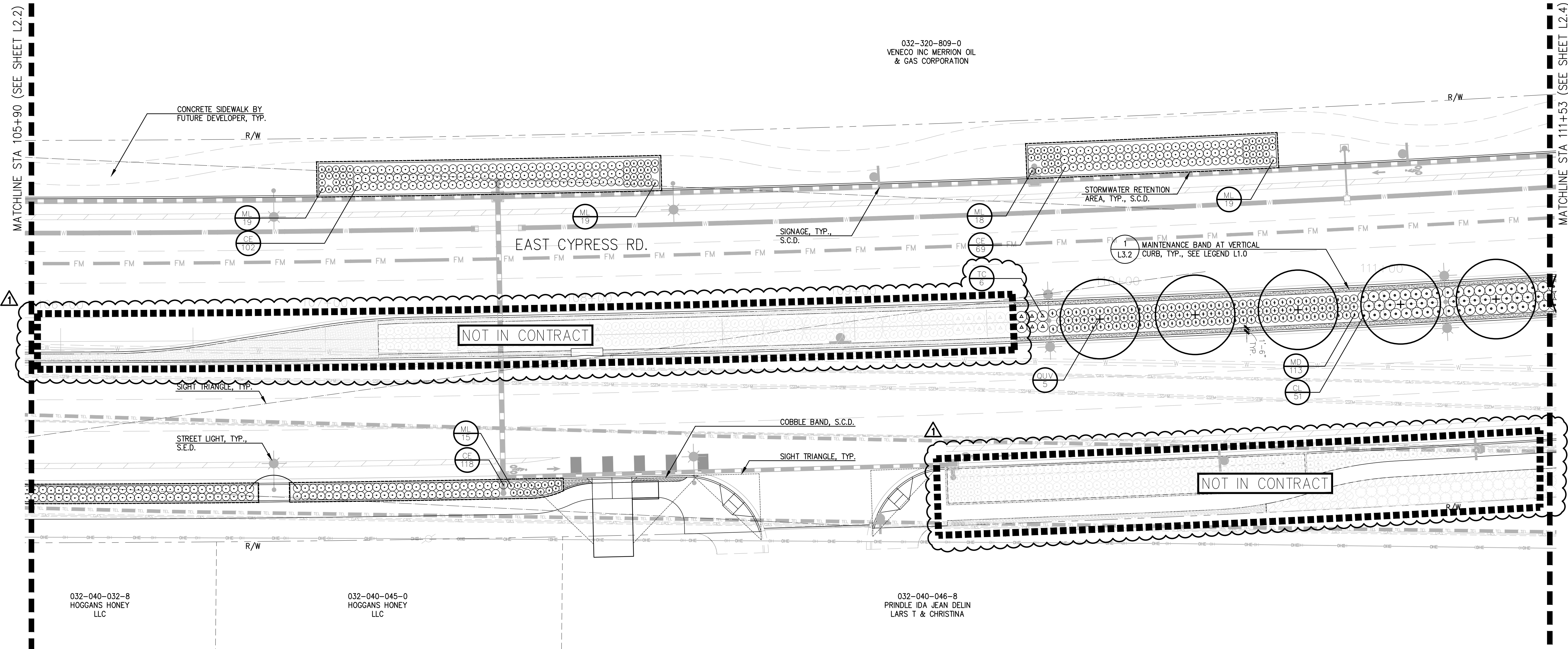
CIP 247 - EAST CYPRESS ROAD WIDENING PROJECT
FROM KNIGHTSEN AVENUE TO JERSEY ISLAND ROAD
PLANTING PLAN
CITY OF OAKLEY CONTRA COSTA COUNTY CALIFORNIA

| NO. | DATE | REVISIONS |
|-----|----------|---------------|
| 1 | 09/30/22 | ADDENDUM #1 |
| 2 | 11/20/22 | DESIGN: MF |
| 3 | | DRAWN: MF, GM |
| 4 | | APPROVED: DL |
| 5 | | JOB NO: 21063 |

DRAWING NUMBER:

L2.2
55 OF **68**

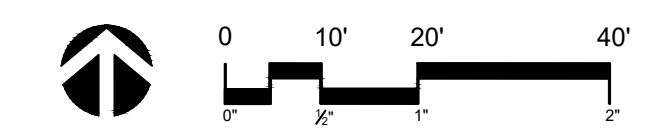
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VENECO INC MERRION OIL & GAS CORPORATION



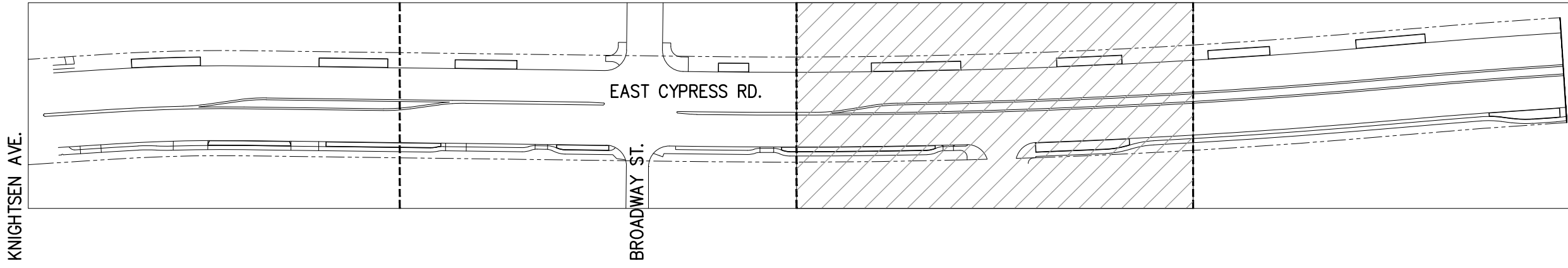
032-040-032-8
HOGGANS HONEY LLC

032-040-045-0
HOGGANS HONEY LLC

032-040-046-8
PRINDLE IDA JEAN DELIN
LARS T & CHRISTINA



KEY MAP



| PLANT SCHEDULE | | | | | | | |
|----------------|---|-----------------------|---------|-----------|-------------|----------|-----|
| TREES | BOTANICAL NAME | COMMON NAME | SIZE | WATER USE | SPACING | SPACING | QTY |
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| SHRUBS | BOTANICAL NAME | COMMON NAME | SIZE | WATER USE | SPACING | SPACING | QTY |
|--------|-------------------------------------|---------------------------------|-------|-----------|--------------|----------|-----|
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1715 7th St. Suite 200
Oakland, CA 94612
Tel: 415.764.7171 Fax: 415.764.7172



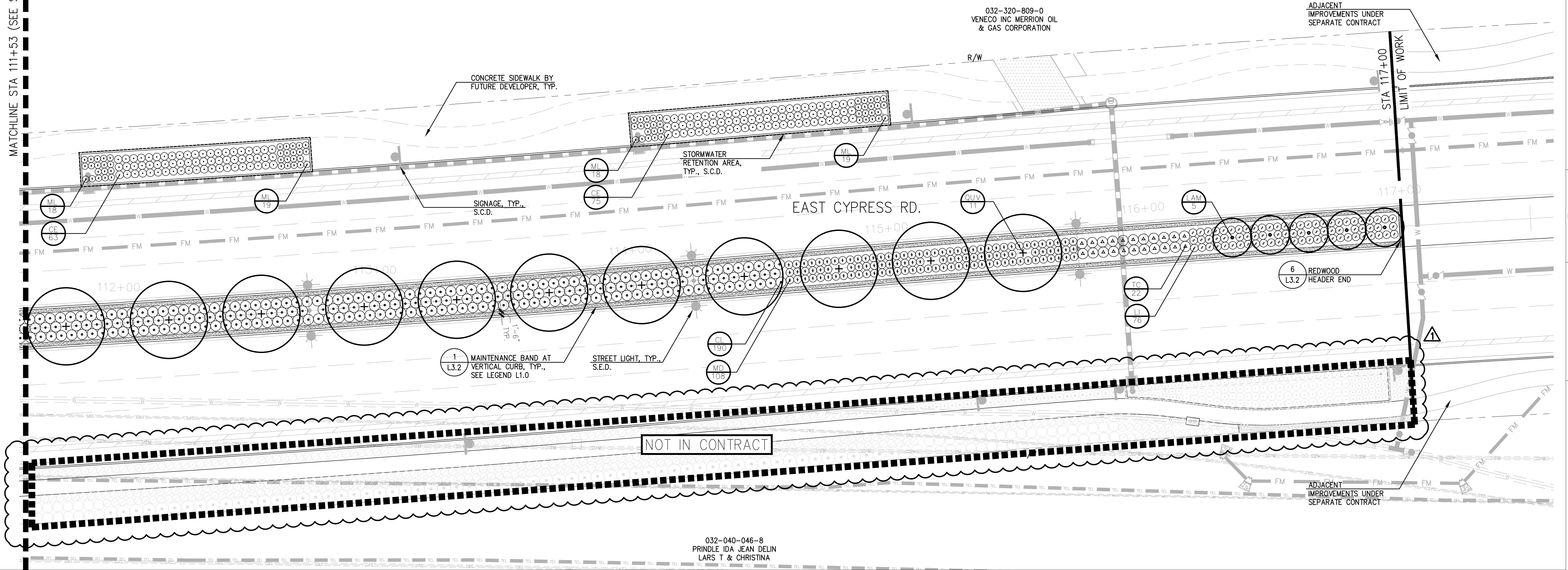
OAKLEY
CALIFORNIA

CIP 247 - EAST CYPRESS ROAD WIDENING PROJECT
FROM KNIGHTSEN AVENUE TO JERSEY ISLAND ROAD
CITY OF OAKLEY
CONTRA COSTA COUNTY
CALIFORNIA
PLANTING PLAN

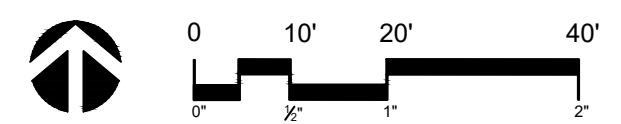
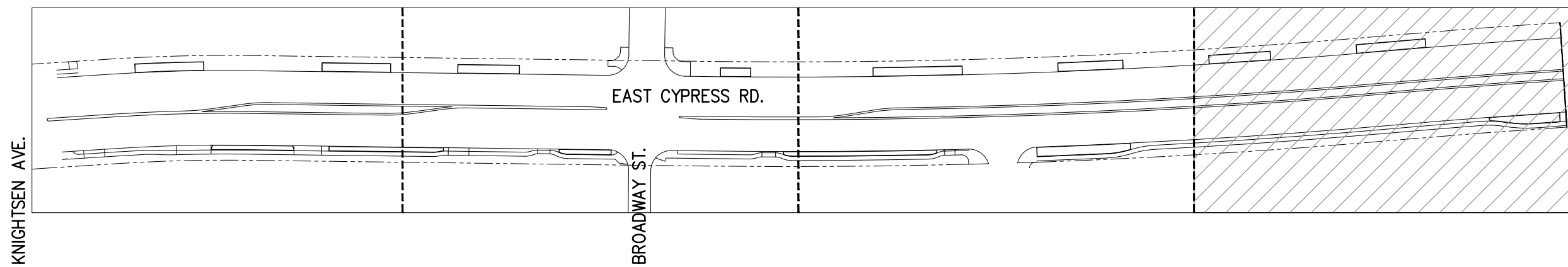
| NO. | DATE | REVISIONS |
|-----|----------|---------------|
| 1 | 09/30/22 | ADDENDUM #1 |
| 2 | 11/20/22 | SCALE: 1"=20' |
| 3 | 02/08/23 | DESIGN: MF |
| 4 | 02/08/23 | DRAWN: MF, GM |
| 5 | 02/08/23 | APPROVED: DL |
| 6 | 02/08/23 | JOB NO: 21063 |

DRAWING NUMBER:
L2.3
56 OF **68**

MATCHLINE STA 111+53 (SEE SHEET L2.3)



KEY MAP

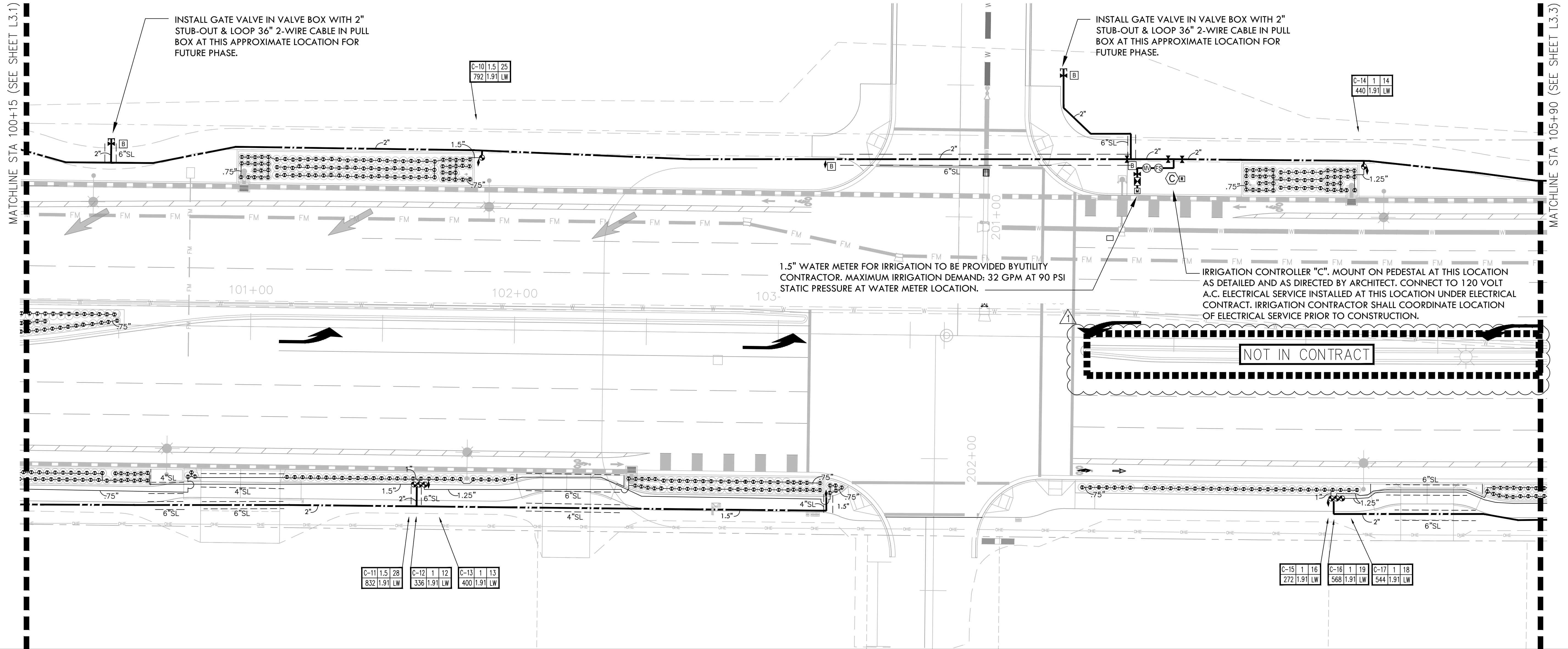


PLANT SCHEDULE

| TREES | BOTANICAL NAME | COMMON NAME | SIZE | WATER USE | SPACING | SPACING | QTY |
|--------|---|---------------------------------|---------|-----------|-------------|----------|-----|
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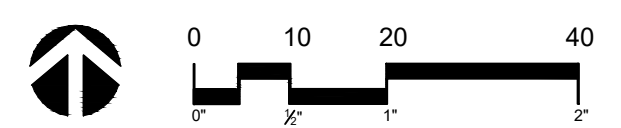
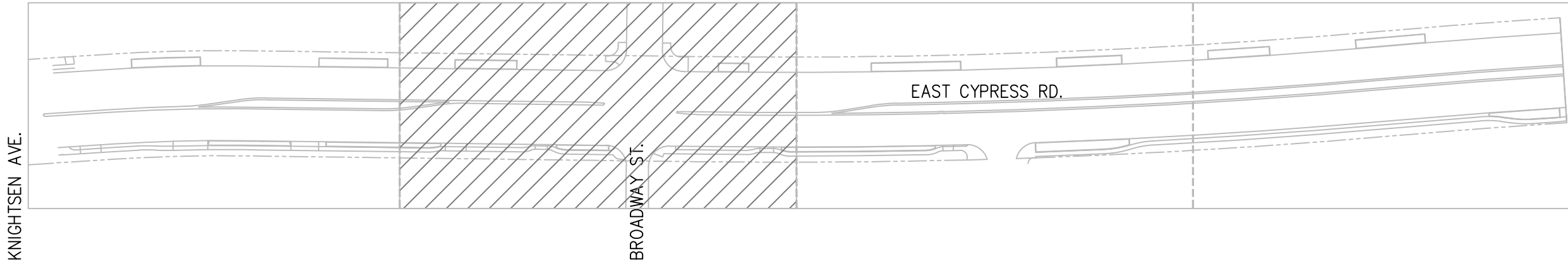
| NO. | DATE | REVISIONS |
|-----|----------|-------------|
| 1 | 09/30/22 | ADDENDUM #1 |



| | | | | | |
|------|-----|----|-----|------|----|
| C-11 | 1.5 | 28 | 832 | 1.91 | LW |
| C-12 | 1 | 12 | 336 | 1.91 | LW |
| C-13 | 1 | 13 | 400 | 1.91 | LW |

| | | | | | |
|------|---|----|-----|------|----|
| C-15 | 1 | 16 | 272 | 1.91 | LW |
| C-16 | 1 | 19 | 568 | 1.91 | LW |
| C-17 | 1 | 18 | 544 | 1.91 | LW |

KEY MAP



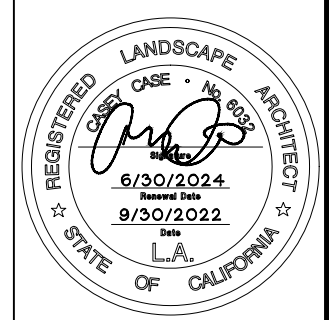
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Irrigation Consultant:
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 2760 Camino Diablo
 Walnut Creek, CA 94597
 tel 925.939.3985 ♦ fax 925.932.5671
 www.rmairrigation.com

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 1415 14TH ST. SUITE 100
 OAKLEY, CA 94661
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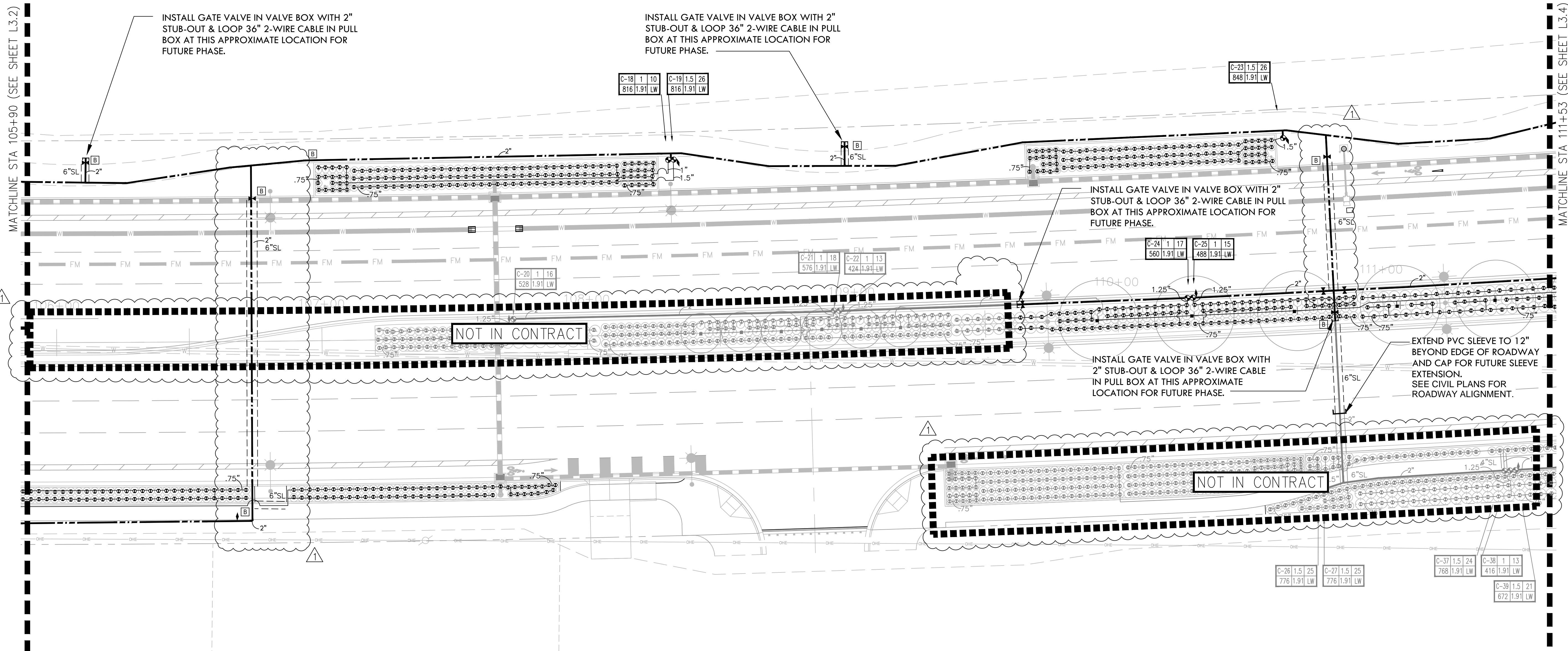
OAKLEY CALIFORNIA

**CIP 247 - EAST CYPRESS ROAD WIDENING PROJECT
 FROM KNIGHTSEAN AVENUE TO JERSEY ISLAND ROAD
 IRRIGATION PLAN
 CITY OF OAKLEY CONTRA COSTA COUNTY CALIFORNIA**

| | |
|-------------|--|
| ADDENDUM #1 | |
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DRAWING NUMBER:
L4.2
61 OF **68**

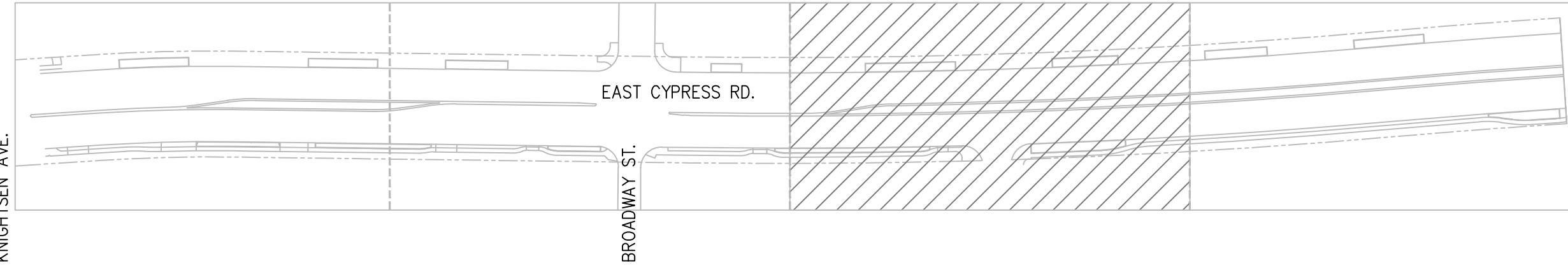
JOB NO: 21063



NOT IN CONTRACT

NOT IN CONTRACT

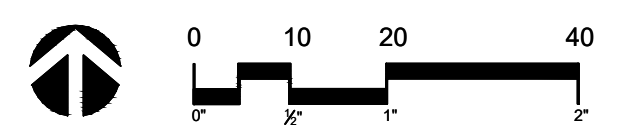
KEY MAP



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GATES + ASSOCIATES
 LANDSCAPE ARCHITECTURE
 LAND PLANNING - URBAN DESIGN
1000 W. HARRIS STREET, WALNUT CREEK, CA 94597
 P: 925.939.3985 F: 925.932.5671 WWW.GATES-CA.COM

OAKLEY CALIFORNIA

**CIP 247 - EAST CYPRESS ROAD WIDENING PROJECT
 FROM KNIGHTSEN AVENUE TO JERSEY ISLAND ROAD**

IRRIGATION PLAN

CITY OF OAKLEY

CONTRA COSTA COUNTY

CALIFORNIA

ADDENDUM #1

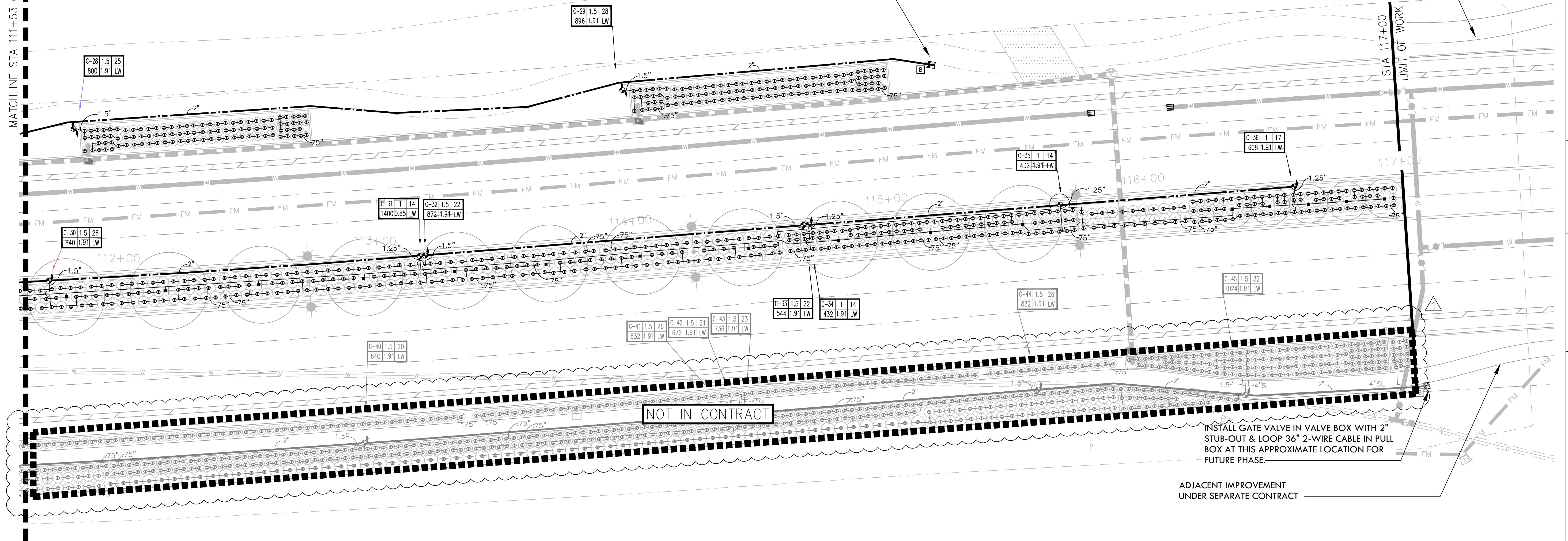
DRAWING NUMBER:
L4.3
62 OF 68

JOB NO. 21063

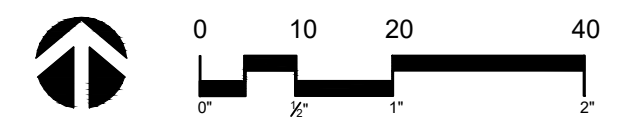
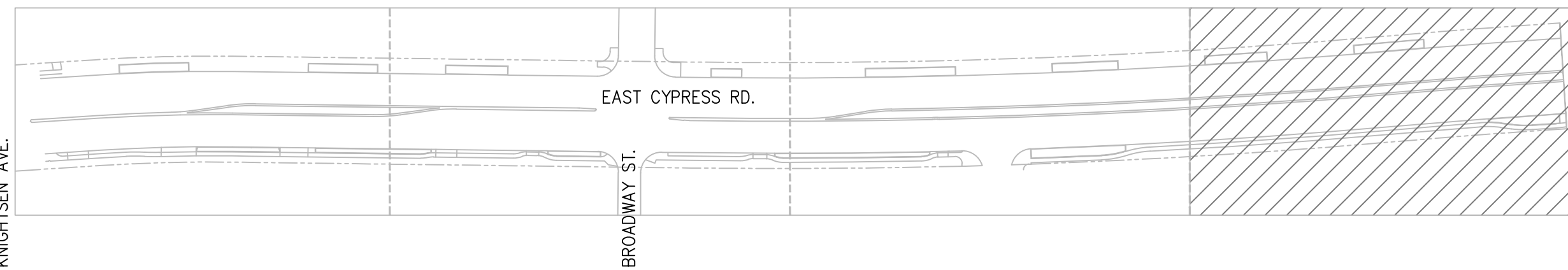
MATCHLINE STA 111+53 (SEE SHEET L3.3)

INSTALL GATE VALVE IN VALVE BOX WITH 2" STUB-OUT & LOOP 36" 2-WIRE CABLE IN PULL BOX AT THIS APPROXIMATE LOCATION FOR FUTURE PHASE.

ADJACENT IMPROVEMENT UNDER SEPARATE CONTRACT



KEY MAP



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WWW.RMIRRIGATION.COM



OAKLEY CALIFORNIA

**CIP 247 - EAST CYPRESS ROAD WIDENING PROJECT
FROM KNIGHTSEN AVENUE TO JERSEY ISLAND ROAD
IRRIGATION PLAN
CITY OF OAKLEY CONTRA COSTA COUNTY CALIFORNIA**

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|-------------|--|--|--|
| ADDENDUM #1 | | | |
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| | | | |
| | | | |

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DRAWING NUMBER:
L4.4
63 OF **68**

JOB NO. 21063

III. The following pages on the Bid Proposal and Bid Form are replaced.

BID PROPOSAL

**PROPOSAL TO THE CITY OF OAKLEY
FOR THE CONSTRUCTION PROJECT ENTITLED
EAST CYPRESS ROAD WIDENING PROJECT
FROM KNIGHTSEN AVENUE TO JERSEY ISLAND ROAD**

CIP NO. 247

NAME OF BIDDER:

BUSINESS ADDRESS:

TELEPHONE NO:

The work for which this proposal is submitted is for construction in accordance with the special provisions (including the payment of not less than the minimum wage rates set forth therein) and the contract annexed hereto, the project plans described below, and also in accordance with the 2018 Department of Transportation Standard Plans and Specifications, the Labor Surcharge and Equipment Rental Rates and General Prevailing Wage Rates in effect on the date the work is accomplished.

The project plans for the work to be done were approved and are entitled:

**EAST CYPRESS ROAD WIDENING PROJECT
FROM KNIGHTSEN AVENUE TO JERSEY ISLAND ROAD**

CIP NO. 247

Bids are submitted for the entire work. The amount of the bid for comparison purposes will be the total of all items. The bidder shall set forth for each unit basis item of work an item price and a total for the item, and for each lump sum item a total for the item, all in clearly legible figures in the respective spaces provided for this purpose. In the case of unit basis items, the amount set forth under the "Total" column shall be the extension of the item price bid on the basis of the estimated quantity set forth for the item.

In case of discrepancy between the item price and the total set forth for the item, the item price shall prevail, provided, however, if the amount set forth as an item price is ambiguous, unintelligible, or uncertain for any cause, or is omitted, or in the case of unit basis items, is the same amount as the entry in the "Total" column, the amount set forth in the "Total" column for the item shall prevail and shall be divided by the estimated quantity for the item and the price thus obtained shall be the item price.

This offer shall be irrevocable for a period of ninety (90) days after the date on which bids are opened.

If this proposal shall be accepted and the undersigned shall fail to enter into the contract and give the two (2) bonds in the sums required by the special provisions, with surety satisfactory to the City within ten (10) days, not including Sundays and legal holidays, after the bidder has received notice from the City that the contract has been awarded, City may, at its option, determine that the bidder has abandoned the contract and thereupon this proposal and the acceptance thereof shall be null and void and the forfeiture of such security accompanying this proposal shall operate and the same shall be the property of the City of Oakley.

A. UNIT PRICE SCHEDULE

The undersigned, Pursuant to and in compliance with your Notice to Contractors and the Contract Documents relating to the **EAST CYPRESS ROAD WIDENING PROJECT FROM KNIGHTSEN AVENUE TO JERSEY ISLAND ROAD**, including Addenda No. _____, _____, _____, as Bidder, declares that the only persons or parties interested in this proposal as principals are those named herein; that this proposal is made without collusion with any other person, firm, or corporation; that he has carefully examined the location of the proposed work, the annexed proposed form of contract, and the plans therein referred to; and he proposes and agrees if this proposal is accepted that he will contract with the City of Oakley in the form of the scope of the contract annexed hereto, to provide all necessary machinery, tools, apparatus, and other means of construction, and to do all the work and furnish all the materials specified in the contract, in the manner and time therein prescribed, and according to the requirements of the Engineer as therein set forth, and that he will take in full payment therefore the following item prices, to wit:

BID ITEMS - REVISED

| Item No. | Item Description | Quantity | Unit of Measure | Unit Cost | Total Cost |
|-----------------|---|-----------------|------------------------|------------------|-------------------|
| 1 | Traffic Control System and Construction Area Signs | 1 | LS | | |
| 2 | Orange Construction Fence | 3,000 | LF | | |
| 3 | Remove Trees and Tree Stumps | 1 | LS | | |
| 4 | Remove Fences | 3,372 | LF | | |
| 5 | Remove Culvert | 3 | EA | | |
| 6 | Removal/Relocation of Unknown Pipe | 1 | LS | | |
| 7 | PG&E Gas Distribution Main Relocation Work | 1 | LS | | |
| 8 | PG&E Gas Transmission Main Removal & Abandonment Work | 1 | LS | | |
| 9 | PG&E Electric Service and New Pedestal for Signal, Lighting and Irrigation Controller | 1 | LS | | |
| 10 | Calpine Main Relocation Work | 1 | LS | | |
| 11 | Storm Water Pollution Prevention Plan (SWPPP) | 1 | LS | | |
| 12 | Storm Water Pollution Control Implementation | 1 | LS | | |
| 13 | Monument Referencing | 1 | LS | | |

| | | | | | |
|----|--|--------|------|--|--|
| 14 | Survey Monument | 1 | EA | | |
| 15 | Roadway Excavation | 3,511 | CY | | |
| 16 | Common Excavation | 5,028 | CY | | |
| 17 | Strippings | 1 | LS | | |
| 18 | Common Backfill | 44,431 | CY | | |
| 19 | Aggregate Base Class 2 | 14,596 | CY | | |
| 20 | Digouts (HMA Type A) (Revocable item) | 1,000 | SF | | |
| 21 | HMA Dike | 40 | LF | | |
| 22 | HMA (Type A) | 10,829 | TON | | |
| 23 | RHMA-G | 2,572 | TON | | |
| 24 | Paving Mat | 100 | SY | | |
| 25 | Subgrade Enhancement Geotextile | 23,043 | SY | | |
| 26 | Profile Grind | 2,782 | SY | | |
| 27 | Conform Grind | 360 | SF | | |
| 28 | Median Pavers | 4,740 | SF | | |
| 29 | Pressure treated Wooden Header Board | 1,200 | LF | | |
| 30 | City Standard Sidewalk | 8,233 | SF | | |
| 31 | City Standard Curb and Gutter | 3,417 | LF | | |
| 32 | M1-8 Standard Vertical Curb | 1,496 | LF | | |
| 33 | M3-8 Doweled Vertical Curb | 1,628 | LF | | |
| 34 | Bioretention Curb and Gutter | 427 | LF | | |
| 35 | Bioretention Vertical Curb | 1,603 | LF | | |
| 36 | City Standard Driveway | 2,300 | SF | | |
| 37 | Driveway Conform | 100 | Tons | | |

| | | | | | |
|----|--|-------|----|--|--|
| 38 | Curb Ramp (Case A) | 7 | EA | | |
| 39 | Retaining Curb | 193 | LF | | |
| 40 | Adjust Utility Structures to Grade | 4 | EA | | |
| 41 | Adjust DWD Structures to Grade | 9 | EA | | |
| 42 | Adjust ISD Structures to Grade | 2 | EA | | |
| 43 | 20" Butterfly Valve | 3 | EA | | |
| 44 | 6" Gate Valve | 2 | EA | | |
| 45 | 20" DIP Class 50 Pipe | 1,289 | LF | | |
| 46 | 20" Steel Pipe | 96 | LF | | |
| 47 | 24"x20" Hot Tap Connection with 20" Butterfly Valve | 1 | LS | | |
| 48 | 6" DIP Class 50 Fire Hydrant Lateral | 80 | LF | | |
| 49 | Install New Fire Hydrant Assembly | 3 | EA | | |
| 50 | Remove Existing Fire Hydrant Assembly | 1 | EA | | |
| 51 | Combination Air Release Valve | 1 | EA | | |
| 52 | 6" Blow Off Assembly | 2 | EA | | |
| 53 | 2" Irrigation Service and Water Meter | 1 | EA | | |
| 54 | City Standard Inlet - Type I | 13 | EA | | |
| 55 | City Standard Inlet - Type II | 2 | EA | | |
| 56 | Bioretention Dome Inlet | 12 | EA | | |
| 57 | Standard Storm Drain Manhole | 1 | EA | | |
| 58 | 24" HDPE Storm Drainage pipe | 1,045 | LF | | |
| 59 | 18" HDPE Storm Drainage pipe | 1,285 | LF | | |
| 60 | 15" HDPE Storm Drainage pipe | 392 | LF | | |
| 61 | 12" HDPE Storm Drainage pipe | 68 | LF | | |

| | | | | | |
|----|---|--------|----|--|--|
| 62 | 15" Round Equivalent Reinforced Concrete Arch Pipe | 286 | LF | | |
| 63 | Extend Existing 24" Storm Drainage Culvert | 1 | LS | | |
| 64 | Connect to Existing Storm Drain Manhole and Install Flapgate | 1 | EA | | |
| 65 | 14" PVC C900 DR14 Sewer Force Main Pipe | 2,180 | LF | | |
| 66 | Air Release Valve on Sewer Force Main Pipe | 1 | EA | | |
| 67 | Sewer Manhole Type 1 | 1 | EA | | |
| 68 | Vertical offset on Sewer Force Main Pipe | 1 | LS | | |
| 69 | Stub 14" PVC Sanitary Sewer Force Main | 1 | EA | | |
| 70 | Connect to Existing Sanitary Sewer Force Main | 3 | EA | | |
| 71 | Relocate Existing Mailbox | 14 | EA | | |
| 72 | Signing and Striping | 1 | LS | | |
| 73 | Install No Pedestrian Crossing Barricades | 3 | EA | | |
| 74 | Type-K Railing Concrete Barrier | 1,020 | LF | | |
| 75 | Crash Cushions System | 1 | LS | | |
| 76 | Remove Traffic Striping and Markings and Prepare Lead Compliance Plan | 1 | LS | | |
| 77 | Lighting and Electrical Work | 1 | LS | | |
| 78 | Traffic Signal Systems | 1 | LS | | |
| 79 | Landscape Planting | 1 | LS | | |
| 80 | Landscape Irrigation | 1 | LS | | |
| 81 | Bioretention Area | 12,207 | SF | | |
| 82 | Grouted Cobbles | 344 | SF | | |
| 83 | Cathodic Protection | 1 | LS | | |
| 84 | Mobilization | 1 | LS | | |

| | | | | | |
|--------------|-----------------------|-------|----|--|--|
| 85 | Fill Wall | 250 | LF | | |
| 86 | Rock Slope Protection | 4,900 | SF | | |
| Total | | | | | |

Total Bid (Items 1-86) \$ _____
(Numbers)

_____ **Dollars**
(Written)

The project requires bids to include prices for items that may be added to or deducted from the scope of the work in the contract for which the bid is being submitted.

All work relating to Diablo Water Districts' facilities shall be performed by a Contractor on the Diablo Water District's approved list of contractors. City of Oakley will coordinate with Diablo Water District prior to the Notice of Award.

Pursuant to the Public Contract Code § 20103.8c the lowest bid shall be “the lowest total of the bid prices on the base contract and those additive or deductive items that when taken in order from a specifically identified list of those items in the solicitation, and added to, or subtracted from, the base contract, are less than, or equal to, a funding amount publicly disclosed by the local agency before the first bid is opened.” In this case, the funding amount publicly disclosed is the Engineer’s Estimate, which totals \$10,500,000

IV. Responses to Bidder's Inquires:

1. How many days/shifts of traffic control will be required for all PG&E gas main relocation, removal, and abandonment Work (Bid Item Nos. 7 – 9)? If this is not provided for bidding purposes, please consider using force account payment for traffic control.
Response: As indicated in the Specifications, assume 4 weeks for each of the work listed in bid items 7, 8, and 9.
2. Where is the PG&E electric source for Bid Item No. 9 – PG&E Electric Service and New Pedestal for Signal, Lighting, and Irrigation Controller?
Response: See note 17 on C3.1, Sheet 19
3. Upon completion of the project, are Bid Item Nos. 74 & 75 (K-Rail Barrier & Crash Cushion System) property of the City?
Response: Yes.
4. For bidding purposes, please confirm whether the City will accept water-filled barrier or whether the Contractor must provide Type K Concrete Barrier for each Stage of Traffic Control.
Response: Yes, a water-filled barrier would be acceptable during construction staging. Type K barrier is required for the permanent condition.
5. Please provide the length of temporary barrier (Type K or water-filled) for each Stage of the Traffic Control System because it is unclear whether the length of the temporary barrier is a only a portion or entire length of each Stage.
Response: The Contractor is required to submit a traffic control plan, see Bid Item No. 1. Lengths of temporary water-filled barrier will be determined by Contractor's traffic control plan, approved by City. Water-filled barrier is not a measured item and is incidental to Bid Item No. 1. The staging plans provide general information on project staging and traffic control.
6. Is the temporary or permanent concrete barrier required to be doweled to the pavement?
Response: Permanent Type K concrete barrier requires doweling to pavement, see Caltrans Standard Specification Section 83-3
7. For bidding purposes, please provide an estimated number of digout locations, thickness, and minimum width per digout. Please confirm Bid Item No. 20 – Digouts (HMA Type A)(Revocable Item) includes the HMA Type A replacement material and that it is not paid separately via Bid Item No. 22 – HMA (Type A).
Response: For bidding purposes assume 8 digout locations. These will be marked in the field, Minimum width will be 6' wide and minimum thickness of 6" thick HMA. Bid Item No. 20 includes "constructing Digouts (HMA Type A), complete in place, including sawcut, remove existing asphalt pavement and base to design subgrade, HMA placement applying tack coat, spreading, compacting"
8. For bidding purposes, please confirm that Bidders may assume that Strippings (Bid Item No. 17) "may be re-used in landscape areas when approved by the City Project Manager".
Response: Yes.

9. What Bid Item Nos. measure and pay for the following Work shown on Drawing C3.1 & C3.2:
- a. Milling for 3" Mill & Fill?
 - b. Filling for 3" Mill & Fill?
 - c. 1" Wedge Grind?
 - d. 1" – 6" Overlay?
 - e. Temporary 6" thick HMA Type A? Is removal required under this Contract?
 - f. Class 2 AB for Temporary 6" thick HMA Type A? Is removal required under this Contract?
 - g. 8" thick FDAC? Is FDAC Full Depth Asphalt Concrete?

Response:

- a. Milling for 3" mill & fill is included in Bid Item No. 26 - Profile Grind. Bid Item quantity updated, see revised bid form.
- b. Filling for 3" mill and fill is included in Bid item No. 22 – HMA – Type A.
- c. 1" Wedge Grind is included in Bid Item No. 26 – Profile Grind.
- d. Overlays are included in Bid Item No. 22 – HMA – Type A.
- e. 6" thick HMA Type A in transition zone is included in Bid Items No. 22 – HMA – Type A. No removal of the 6" Thick HMA required.
- f. Class 2 AB for 6" Thick HMA Type A in transition zone is included in Bid Item No. 19- Aggregate Base Class 2. No removal of 6" Thick Class 2 AB required.
- g. 8" Thick FDAC is Full Depth Asphalt Concrete, included in Bid Items No. 22 – HMA – Type A.

10. Section 7-1.18 – Watering of Bid Set Part II states "All construction water must be non-potable, metered, and paid for by the Contractor and a hydrant meter may be picked up at DWD's District office located at 87 Carol Lane, Oakley, CA 94561...For Non-potable/recycled water services, contact Ironhouse Sanitary District (ISD) at (925) 675-2279 ISD offices are located at 450 Walnut Meadows Drive. Oakley, CA 94561." Please confirm whether or not the construction water must be non-potable and obtained from Ironhorse Sanitary District or Diablo Water District. If construction water may not be obtained from potable water fire hydrants with the project limits, please identify locations via a map of ISD's non-potable water sources near the project.

Response: Construction water may be potable or non-potable. For potable water source, coordinate with DWD prior to bid. Coordinate with ISD for location of non-potable water sources.

11. Please advise when the City anticipates Notice to Proceed/start of construction.

Response: Tentative NTP = Feb/Mar 2023

12. Section 10-1.13 – Portland Cement Concrete, Quality Assurance Field Testing states "Field testing shall include testing for concrete slump per ASTM C143 and compressive strength per ASTM C39. Such testing shall be at a frequency determined by the Engineer and shall be performed by the Contractor's laboratory at the Contractor's expense." For bidding purposes, please provide the testing frequency.

Response: At a minimum, test first and last load of the day.

13. Please confirm that Measurement & Payment for all minor concrete work listed in Section 10-1.13 – Portland Cement Concrete includes excavation & backfill, fill, and base material and that no other Items measure and pay for this work.

Response: All roadway and common excavation below minor concrete work are included in Bid Items 15 and 16, Roadway Excavation and Common Excavation respectively. All fills are included in Bid Item No. 18, Common Backfill. All Class 2 aggregate base is included in Bid

Items No. 19 – Class 2 Aggregate Base. Minor Concrete work includes all concrete, reinforcement, and associated work as noted in the pay clauses.

14. Is the Contractor allowed to use asphalt grindings from cold planing for Common Backfill? Section 10-1.13 states that grindings shall be hauled to Foundation Constructors located at 81 Big Break Road, Oakley CA 94561.

Response: Asphalt grinding shall not be used for common backfill.

15. Please confirm the Contractor shall include the Work for the following 10-1.13 provision “The Contractor shall perform inspection and any required field tests to determine compliance with specified requirements for materials, density, and compaction of the earthwork.”

Response: Yes.

16. Please confirm that the Contractor is responsible for all costs associated with SSFM, Water, and Storm trench compaction testing.

Response: Yes.

17. Please confirm that Caltrans Standard Specification Section 9-1.07 – Payment Adjustments for Price Index Fluctuations applies to the Contract.

Response: No, see Addendum No. 1.

18. The Cross Sections (Drawing Nos. C7.1 – C7.3) show an 8-foot wide embankment toe to be excavated and recompacted. Please provide the construction requirements and advise which Bid Item will measure and pay for the Work.

Response: All excavations except strippings are part of Bid Items 15 and 16, Roadway Excavation and Common Excavation. All fills are included in Bid Item No. 18, Common Backfill. See Project Geotechnical Report for additional information.

19. Regarding #30, based on the drawings, there appears to be more than 5,940 SF, please clarify the total.

Response: Bid Item No. 30 Quantity updated.

20. Please clarify if the sidewalk/ramps can be monolithic with the C&G. clarify the amount of #34, as per Detail 3/G1.9, there is only 327’.

Response: Bid Item No. 34 Quantity updated. Sidewalk must be a separate pour from the curb and gutter, except at Curb Ramps.

21. Your plans indicate to install curb & gutter per the detail C-01. This detail shows 4” of AB under the curb. Your typical cross section on plan sheet C1.0 show a much thicker AB section under the curb +-14.5”. Per the specs, the base is included in the unit cost for the Curb & Gutter.

Response: See updated Typical Sections. Aggregate base is paid under Bid Item No. 19- Aggregate Base Class 2.

22. Do you have a rough start date in mind or a completion date?

Response: See Response to 11 above.

23. Also, note 11 on sheet C3.1 calls for a vertical offset & blowoff for the 14” SSFM noting detail 5/G1.9. I don’t see this detail available on this sheet or any others. Can you provide some direction?

Response: Blowoff Detail 5 added on Sheet G1.9

24. Refer to sheets L2.3, L2.4, L4.3 and L4.4, notes "Not in contract - Except main valves on main & sleeve" and " Not in contract" are shown. Please clarify the limit of this project scope of work for planting and irrigation operations.

Response: See updated sheets for clarification of limits of work.

25. According to Irrigation Legend on sheet L4.5, fittings for mainline are Sch40 PVC. However, irrigation notes No.63 on sheet L4.6 shows mainline fittings are Schedule 80 PVC. Please clarify.

Response: All mainline fittings shall be Sch 80 PVC per City Standard Note #63.

26. Please confirm the acceptable methods for the installation of irrigation sleeves crossing existing pavement (boring or saw-cutting).

Response: Plans do not indicate sleeving through existing pavement. Installation of sleeves crossing existing paving shall be bored.

27. 4/ Note 97 on sheet L1.2 shows that project needs to be maintained for 180 days. However, maintenance section of specifications 10-1.25 shows that landscaped areas has to be maintained in a healthy and attractive condition for a period of 90 days. Please clarify the maintenance period.

Response: Maintenance Period shall be 180 days per City Standard Note #97.

28. Refer to specification section 10-1.25, construction section- Soil preparation indicated Soil Mix for shrubs backfilling and Cultivation and Placement of Amendment per soil report, see Part III, Appendix A. However, Part III, Appendix A does not show any information for soil preparation and backfill. Please advise.

Response: For Bidding Purposes only, base bid on City Standard shrub and tree details sheet L3.1. Contractor shall furnish Soil Report from Soil Lab for all soil amendment and fertilization program. All soil preparation shall be prepared and installed per the Soils Report recommendations.

29. Refer to specification section 10-1.25, part construction - Planting shows "Apply post-planting organic fertilizer, per Soils Report prepared by Waypoint Analytical, dated December 23, 2019 (See Appendix A)". However, Appendix A does not show the ratio for post-planting organic fertilizer. Please clarify.

Response: For Bid Purposes only, amend soil with 6 yards OMRI compost, 50 lbs. gypsum, 20 lbs. soil sulfur and 160 lbs. of Gro-Power Plus 5-3-1 with M per 1000 sf. Contractor shall furnish Soil Report from Soil Lab for all soil amendment and fertilization program. All fertilizers shall be applied per the Soils Report recommendations.

30. Refer to specification section 10-1.25, part construction - Mycorrhizae shows "For zones where mycorrhizae is not uniformly blended into the soils, provide drench to all plant material per manufacturer application rates". Please provide the location to apply this condition and detail for drenching.

Response: Mycorrhizae not required for Bidding Purposes. All mycorrhizae shall be applied as necessary per the Soils Report recommendations.

31. Do you know what the lbs/ac is for the seed mix on this project?

Response: Hydroseed Mixture per acre shall consist of the following: 80 lbs. Montezuma Oats, 12 Lbs. Wild Blue Rye, 10 Lbs. California Brome, and 8 Lbs. Birdfoot Trefoil.

Hydroseed mixture shall be maintained and, if necessary, reseeded to continue full coverage needed for erosion control.