

STATE OF HAWAII
 DEPARTMENT OF LAND AND NATURAL RESOURCES
 DIVISION OF BOATING AND OCEAN RECREATION

JOB NO. B71C075A

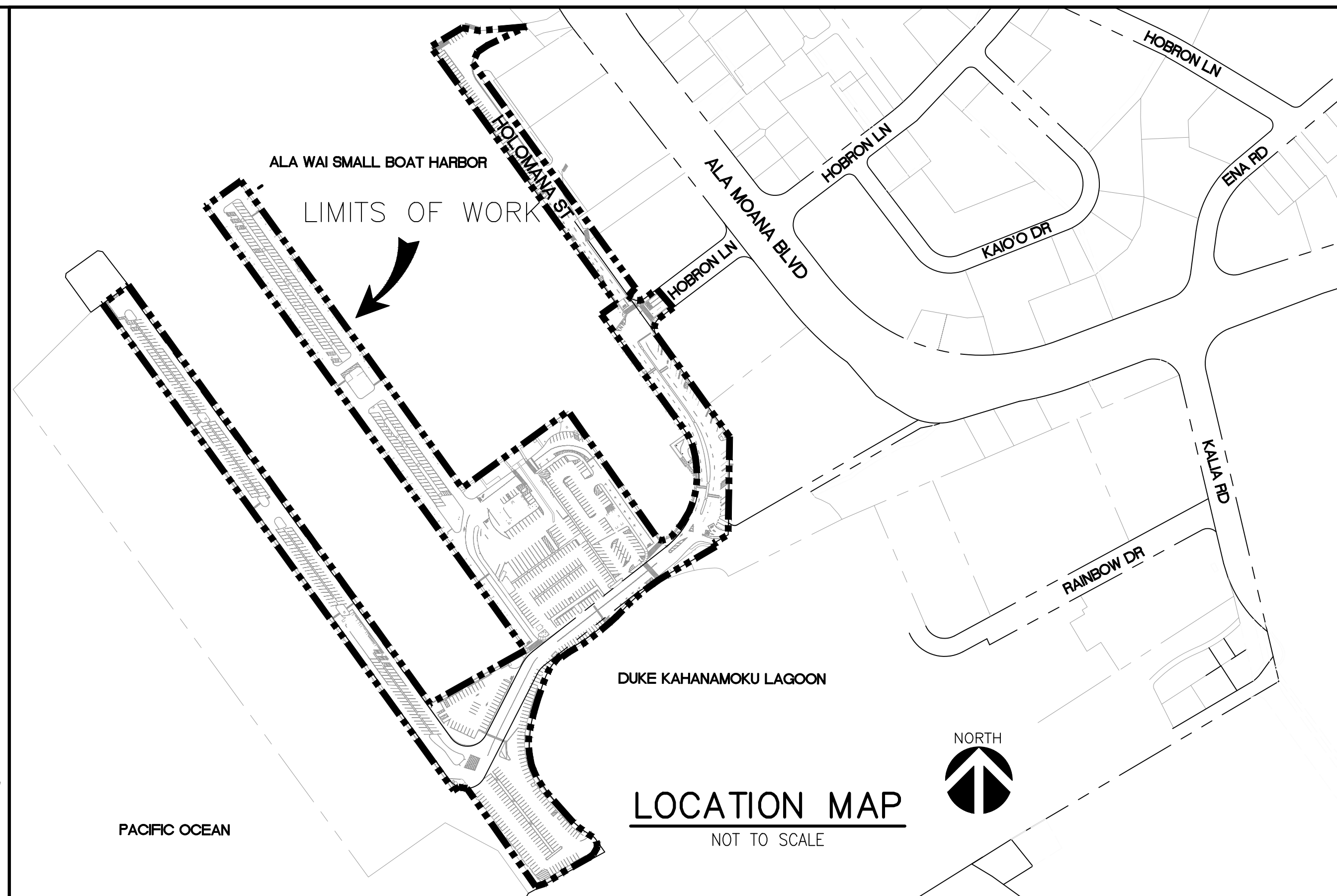
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS

HONOLULU, OAHU, HAWAII

CIVIL ENGINEER CONSULTANT
 AKINAKA & ASSOCIATES, LTD.

T.M.K.: (1) 2-3-037: 012, 024, 026, 027, 031, 032, 033, 034, 037

SURVEYOR
 CONTROLPOINT SURVEYING, INC.



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 DEPARTMENT OF LAND AND NATURAL RESOURCES

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STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII TITLE SHEET					
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GENERAL CONSTRUCTION NOTES

1. ALL APPLICABLE CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISION OF THE FOLLOWING:
 - STATE OF HAWAII, DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", DATED 2005;
 - THE CITY AND COUNTY OF HONOLULU DEPARTMENT OF PUBLIC WORKS "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", DATED 1986;
 - "STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION", DATED 1984 WHERE APPLICABLE;
 - THE APPLICABLE STATE BUILDING CODES AS ADOPTED BY THE STATE BUILDING CODE COUNCIL.
2. EXISTING TOPOGRAPHIC SURVEY WAS CONDUCTED ON 3/24/25 BY CONTROLPOINT SURVEYING, INC. THIS TOPOGRAPHIC SURVEY WAS BASED ON THE BEST AVAILABLE INFORMATION AND ACCURACY MUST BE VERIFIED PRIOR TO STARTING CONSTRUCTION.
3. VERIFY AND CHECK ALL DIMENSIONS AND DETAILS SHOWN ON THE DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR DIRECTION.
4. DURING THE PERFORMANCE PERIOD OF THIS CONTRACT, THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE CONTROL AND RESPONSIBILITY OF THE JOBSITE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE SITE SAFETY CONDITIONS FOR ALL PERSONS ENTERING THE JOBSITE, THE CONDITION OF THE SITE AND ALL EXISTING IMPROVEMENTS, AND FOR ALL MATERIAL AND EQUIPMENT STORED AT THE PROJECT SITE.
5. BLASTING IS NOT ALLOWED.
6. IN THE EVENT HISTORIC REMAINS, SUCH AS ARTIFACTS, BURIALS, OR CONCENTRATIONS OF SHELL OR CHARCOAL ARE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, WORK SHALL IMMEDIATELY CEASE IN THE VICINITY OF THE ENCOUNTER. NOTIFY THE STATE HISTORIC PRESERVATION DIVISION AT (808) 692-8015, FOR AN ASSESSMENT OF THE ENCOUNTER AND RECOMMENDATIONS ON MITIGATION MEASURES.
7. CONSTRUCT TEMPORARY BARRICADES DURING CONSTRUCTION, FOR SAFETY AND THE PROTECTION OF LIFE AND PROPERTY.
8. THE ALA WAI SMALL BOAT HARBOR SHALL REMAIN OPEN DURING THE CONSTRUCTION PERIOD. PROVIDE TEMPORARY BARRICADES AND WARNING SIGNS FOR THE SAFETY AND PROTECTION OF THE PUBLIC AND MAINTAIN SAFE PEDESTRIAN AND VEHICLE ACCESS TO THE FACILITY AS REQUIRED. PROVIDE AND MAINTAIN ALL NECESSARY SIGNS AND PROTECTIVE FACILITIES AND TAKE NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC.
9. EXISTING PEDESTRIAN WALKWAYS SHALL BE MAINTAINED IN A PASSABLE CONDITION OR PROVIDE FOR ALTERNATE/TEMPORARY ACCESSIBLE PEDESTRIAN ACCESS ROUTES AND FACILITIES PER THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN CHAPTER 2, ADAAG 201.3, AND ADAAG 206.1.
10. DO NOT PERFORM ANY CONSTRUCTION ACTIVITIES THAT CAUSE ROCKS, SOIL, OR DEBRIS IN ANY FORM TO FALL, SLIDE, OR FLOW ONTO ADJOINING PROPERTIES, STREETS, OR NATURAL WATER COURSES. FINES DUE TO VIOLATIONS AND ANY NECESSARY REMEDIAL ACTIONS SHALL BE BORNE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
11. AS APPLICABLE, COORDINATE CONSTRUCTION ACTIVITIES WITH ADJACENT CONSTRUCTION SITE(S). AVOID CAUSING ANY DELAYS OR HINDERANCE OF WORK OR PERFORMANCE TO THE ADJACENT CONSTRUCTION SITE(S).
12. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA.
13. COORDINATE ALL SITE UTILITY WORK WITH "THE ONE CALL CENTER" AT (866) 423-7287 AT LEAST 5 WORKING DAYS PRIOR TO THE START OF EXCAVATION OR TRENCHING.
14. VERIFY AND COORDINATE THE ACTUAL LOCATION OF ALL SITE UTILITIES WITH THE RELATED AGENCIES AND UTILITY COMPANIES IN THE PROJECT AREA PRIOR TO EXCAVATING.
15. WHEN CONNECTING NEW UTILITIES TO EXISTING, EXPOSE THE EXISTING UTILITY LINES AT THE DENOTED CONNECTION POINT TO VERIFY CHARACTERISTICS PRIOR TO COMPLETING EXCAVATION FOR NEW UTILITIES.
16. VERIFY AND COORDINATE THE ACTUAL LOCATION OF ALL SITE UTILITIES WITH THE RELATED AGENCIES AND UTILITY COMPANIES IN THE PROJECT AREA PRIOR TO EXCAVATING.
17. IF WATER, SEWAGE, OR ELECTRICAL SERVICES ARE PLANNED TO BE INTERRUPTED FOR MORE THAN 1 HOUR, PROVIDE FOR TEMPORARY WATER, SEWAGE, AND ELECTRICAL SERVICES DURING THE INTERRUPTION AT NO ADDITIONAL COST TO THE STATE.
18. MAKE ARRANGEMENTS FOR TEMPORARY CONSTRUCTION SITE UTILITIES SUCH AS ELECTRICITY, WATER, ETC. AT NO ADDITIONAL COST TO THE STATE.

19. ALL EXISTING UTILITIES, SHOWN ON THE PLANS OR UNCOVERED, SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION.
20. ANY DAMAGED UTILITIES, AS A RESULT OF CONTRACTOR OPERATIONS, SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST TO THE STATE.
21. ADJUST MANHOLE AND/OR VALVE BOX FRAMES AND COVERS AS REQUIRED BY THE UTILITY COMPANIES AND AGENCIES.
22. CONFORM WITH THE APPLICABLE PROVISIONS OF CHAPTER 54, WATER QUALITY STANDARDS, AND CHAPTER 55, WATER POLLUTION CONTROL, OF TITLE 11, HAWAII ADMINISTRATIVE RULES OF THE STATE DEPARTMENT OF HEALTH.
23. PLAN, CONSTRUCT AND UTILIZE ALL BEST MANAGEMENT PRACTICES (BMP) AS REQUIRED TO COMPLY WITH THE LAWS, STANDARDS, RULES, AND /OR POLICIES OF THE COUNTY, STATE, OR FEDERAL REGULATORY AGENCIES.
24. OBTAIN AND PAY FOR ALL REQUIRED PERMITS FROM THE APPROPRIATE GOVERNMENT AGENCIES.
25. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE THE SERVICES OF AN ESCP (EROSION AND SEDIMENT CONTROL PLAN) COORDINATOR. THE DESIGNEE SHALL HOLD A CURRENT ESCP COORDINATOR CERTIFICATE FROM THE CITY'S DEPARTMENT OF PLANNING AND PERMITTING.
26. RESTORE ALL AREAS DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES, TO EQUAL OR BETTER CONDITION(S), INCLUDING BUT NOT LIMITED TO VEGETATION, PAVEMENTS, EMBANKMENTS, CURBS, SIGNS, LANDSCAPING, STRUCTURES, UTILITIES, WALKWAYS, FENCES, ETC. UNLESS SPECIFICALLY NOTED OTHERWISE.
27. DO NOT START ANY GROUND DISTURBANCE UNTIL ALL REQUIREMENTS OF THE NPDES PERMIT, AS REQUIRED, ARE MET. FOR WORK ON COUNTY PROPERTY, PROVIDE A WRITTEN COPY OF THE NPDES PERMIT TO THE APPROPRIATE COUNTY OR STATE OR FEDERAL AGENCY PER THEIR REQUIREMENTS.
28. PROVIDE THERMOPLASTIC TYPE PAVEMENT STRIPING WHEN REPLACING ANY EXISTING ROADWAY MARKINGS
29. PROVIDE THEFT-RESISTANT FASTENERS FOR ALL MOUNTING ACCESSORIES.
30. PROVIDE STAINLESS STEEL, THEFT-RESISTANT FASTENERS IN ALL PUBLICLY EXPOSED AREAS.
31. PROVIDE ALL INCIDENTAL AND NECESSARY MATERIALS AND LABOR TO COMPLETE THE PROJECT.
32. THE JOB SITE SHALL BE LEFT IN A SAFE AND SECURE CONDITION AT THE END OF EACH WORKDAY. CLEAN UP AND REMOVE ALL RUBBISH FROM THE JOB SITE ON A DAILY BASIS. MAINTAIN THE WORK AREA AND PREMISES IN A CLEAN ORDERLY CONDITION AT ALL TIMES.
33. PRIOR TO ACCEPTANCE OF THE PROJECT BY THE STATE, CLEAN UP AND REMOVE ALL RUBBISH AND DEBRIS FROM THE ENTIRE JOB SITE.
34. DUE TO LIMITED SPACE AT THE JOB SITE, THE STATE RECOGNIZES THE NEED FOR A CONSTRUCTION STAGING AREA FOR TEMPORARY STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIAL. COORDINATE WITH THE HARBOR MASTER FOR USE OF THE STAGING AREAS(S) AT LEAST 30 DAYS PRIOR TO ANTICIPATED OCCUPANCY. THE STATE IS NOT OBLIGATED TO PROVIDE A STAGING AREAS AS SPACE AVAILABILITY AT THE HARBOR WILL CHANGE FROM TIME TO TIME. SUBMIT A STAGING AREA(S) USE REQUEST AS SOON AS POSSIBLE. THE HARBOR MASTER DETERMINES THE STAGING AREA'S CONDITIONS OF USE.

NOTES ON CONTROLS FOR LAND DISTURBANCES

1. HAR CHAPTER 11-55 APPENDIX C REQUIREMENTS THE FOLLOWING SPECIAL CONDITIONS APPLY TO ALL LAND DISTURBANCES WORK CONDUCTED UNDER THIS GENERAL PERMIT:
 - A. CONSTRUCTION MANAGEMENT TECHNIQUES
1. CLEARING AND GRUBBING SHALL BE HELD TO THE MINIMUM NECESSARY FOR GRADING AND EQUIPMENT OPERATION.
2. CONSTRUCTION SHALL BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF THE CLEARED SURFACE AREA.
3. CONSTRUCTION SHALL BE STAGED OR PHASED FOR LARGE PROJECTS. AREAS OF ONE PHASE SHALL BE STABILIZED BEFORE ANOTHER PHASE IS INITIATED. STABILIZATION SHALL BE ACCOMPLISHED BY TEMPORARILY OR PERMANENTLY PROTECTING THE DISTURBED SOIL SURFACE FROM RAINFALL IMPACTS AND RUNOFF.
4. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN. THESE MEASURES SHALL BE PROPERLY CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
5. ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY, FOR EXAMPLE, WEEKLY IN DRY PERIODS AND WITHIN TWENTY-FOUR PERIOD DURING PROLONGED RAINFALL. DAILY CHECKING IS NECESSARY. THE PERMITTEE SHALL MAINTAIN RECORDS OF CHECKS AND REPAIRS. CHECK AND REPAIRS.
6. THE PERMITTEE SHALL MAINTAIN RECORDS OF THE DURATION AND

- ESTIMATED VOLUME OF STORM WATER DISCHARGE(S).
7. A SPECIFIC INDIVIDUAL SHALL BE DESIGNATED TO BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS ON EACH PROJECT SITE.
 - B. VEGETATION CONTROLS
 1. PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED, OR DISTURBED MORE THAN TWENTY CALENDAR DAYS PRIOR TO LAND DISTURBANCE.
 2. TEMPORARY SOIL STABILIZATION WITH APPROPRIATE VEGETATION SHALL BE APPLIED ON AREAS THAT WILL REMAIN UNFINISHED FOR MORE THAN THIRTY CALENDAR DAYS.
 3. PERMANENT SOIL STABILIZATION WITH PERENNIAL VEGETATION OR PAVEMENT SHALL BE APPLIED AS SOON AS PRACTICAL AFTER FINAL GRADING. IRRIGATION AND MAINTENANCE OF THE PERENNIAL VEGETATION SHALL BE PROVIDED FOR THIRTY CALENDAR DAYS OR UNTIL THE VEGETATION TAKES ROOT, WHICHEVER IS SHORTER.
 - C. STRUCTURAL CONTROLS
 1. STORM WATER FLOWING TOWARD THE CONSTRUCTION AREA SHALL BE DIVERTED BY USING APPROPRIATE CONTROL MEASURES, AS PRACTICAL.
 2. EROSION CONTROL MEASURES SHALL BE DESIGNED ACCORDING TO THE SIZE OF DISTURBED OR DRAINAGE AREAS TO DETAIN RUNOFF AND TRAP SEDIMENT.
 3. WATER MUST BE DISCHARGED IN A MANNER THAT THE DISCHARGE SHALL NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE BASIC WATER QUALITY CRITERIA AS SPECIFIED IN SECTION 11-54-04.

HISTORICAL PRESERVATION NOTES

1. IF CULTURAL MATERIALS ARE DISCOVERED DURING CONSTRUCTION, ALL EARTH-MOVING ACTIVITY WITHIN AND AROUND THE IMMEDIATE DISCOVERY AREA SHALL BE DIVERTED UNTIL A QUALIFIED ARCHAEOLOGIST CAN ASSESS THE NATURE AND SIGNIFICANCE OF THE FIND.
2. IF PREVIOUSLY UNIDENTIFIED NON-BURIAL HISTORIC PROPERTIES, OR UNANTICIPATED EFFECTS ARE DISCOVERED, THE CONTRACTOR SHALL FOLLOW THE HAWAII ADMINISTRATIVE RULES (HAR) §13-280 "RULES GOVERNING GENERAL PROCEDURES FOR INADVERTENT DISCOVERIES OF HISTORIC PROPERTIES DURING A PROJECT COVERED BY THE HISTORIC PRESERVATION REVIEW PROCESS".
3. IF HUMAN REMAINS ARE DISCOVERED, HAR §13-300 STATES THAT FURTHER DISTURBANCES AND ACTIVITIES SHALL CEASE IN ANY AREA OR NEARBY AREA SUSPECTED TO OVERLIE REMAINS AND THE STATE HISTORIC PRESERVATION DIVISION AND THE POLICE DEPARTMENT WILL BE CONTACTED. THE APPROPRIATE PROCESS WOULD THEN PROCEED IN CONFORMANCE WITH HAR SECTION §13-300, SUBCHAPTER 4, "PROCEDURES FOR PROPER TREATMENT OF BURIAL SITES AND HUMAN SKELETAL REMAINS".
4. IN THE EVENT HISTORIC REMAINS, SUCH AS ARTIFACTS, BURIALS, CONCENTRATIONS OF SHELL OR CHARCOAL BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, WORK SHALL IMMEDIATELY CEASE IN THE VICINITY OF THE ENCOUNTER. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STATE HISTORIC PRESERVATION DIVISION AT (808) 692-8015, FOR AN ASSESSMENT OF THE ENCOUNTER AND RECOMMENDATIONS ON MITIGATION MEASURES.

GRADING NOTES

1. ALL GRADING WORK SHALL BE DONE IN ACCORDANCE WITH CHAPTER 18A, ARTICLES 1, 2, 3 AND 4, AS RELATED TO GRADING, SOIL EROSION AND SEDIMENT CONTROL OF THE REVISED ORDINANCES OF HONOLULU, 2021, AS AMENDED. A REPORT AFTER GRADING, PREPARED BY A PROFESSIONAL ENGINEER, IS REQUIRED UPON COMPLETION OF THIS PROJECT.
2. NO CONTRACTOR SHALL PERFORM ANY GRADING OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY.
3. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS CONTAINED IN THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 60.1, "AIR POLLUTION CONTROL".
4. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED

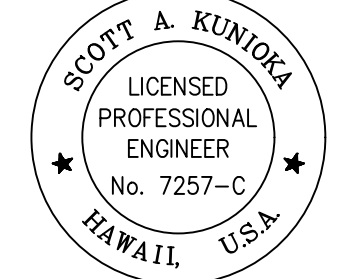
5. ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SURFACE WATERS FROM DAMAGING THE CUT FACE OF AN EXCAVATION OR THE SLOPED SURFACES OF A FILL. FURTHERMORE, ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE SITE.
6. ALL SLOPES AND EXPOSED AREAS SHALL BE SODDED OR PLANTED AS SOON AS FINAL GRADES HAVE BEEN ESTABLISHED. PLANTING SHALL NOT BE DELAYED UNTIL ALL GRADING WORK HAS BEEN COMPLETED. GRADING TO FINAL GRADE SHALL BE CONTINUOUS, AND ANY AREA WITHIN WHICH WORK HAS BEEN INTERRUPTED OR DELAYED SHALL BE PLANTED.
7. FILLS ON SLOPES STEEPER THAN 5:1 SHALL BE KEYED.
8. THE CITY SHALL BE INFORMED OF THE LOCATION OF THE BORROW/DISPOSAL SITE FOR THE PROJECT WHEN THE APPLICATION FOR A GRADING PERMIT IS MADE. THE BORROW/DISPOSAL SITE MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
9. NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS AND HOLIDAYS AT ANY TIME WITHOUT PRIOR NOTICE TO THE DIRECTOR, D.P.P., PROVIDED SUCH GRADING WORK IS ALSO IN CONFORMANCE WITH THE COMMUNITY NOISE CONTROL STANDARDS CONTAINED IN THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 46, "COMMUNITY NOISE CONTROL".
10. THE LIMITS OF THE AREA TO BE GRADED SHALL BE FLAGGED BEFORE THE COMMENCEMENT OF THE GRADING WORK.
11. THE GENERAL CONTRACTOR/DEVELOPER/OWNER OF THE PROJECT SHALL BE RESPONSIBLE FOR ALL GRADING OPERATIONS TO BE PERFORMED IN CONFORMANCE WITH APPLICABLE PROVISIONS OF THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS," AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL", AS WELL AS CHAPTER 18A OF THE REVISED ORDINANCES OF HONOLULU, AS AMENDED. BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION.

THE GENERAL CONTRACTOR/DEVELOPER/OWNER OF THE PROJECT SHALL OBTAIN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT COVERAGE(S) FOR THE FOLLOWING:

1. STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES THAT DISTURB ONE (1) ACRE OR MORE, AND
2. DISCHARGES OF HYDROTESTING EFFLUENT, DEWATERING EFFLUENT, AND WELL DRILLING EFFLUENT TO STATE WATERS.

IN ACCORDANCE WITH STATE LAW, ALL DISCHARGES RELATED TO PROJECT CONSTRUCTION OR OPERATIONS ARE REQUIRED TO COMPLY WITH STATE WATER QUALITY STANDARDS (HAWAII ADMINISTRATIVE RULES, CHAPTER 11-54). BEST MANAGEMENT PRACTICES SHALL BE USED TO MINIMIZE OR PREVENT THE DISCHARGE OF SEDIMENT, DEBRIS, AND OTHER POLLUTANTS TO STATE WATERS. PERMIT COVERAGE IS AVAILABLE FROM THE DEPARTMENT OF HEALTH, CLEAN WATER BRANCH AT [HTTP://HEALTH.HAWAII.GOV/CWB](http://health.hawaii.gov/cwb). THE OWNER/DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR OBTAINING OTHER FEDERAL, STATE, OR LOCAL AUTHORIZATIONS AS REQUIRED BY LAW.

12. WHERE APPLICABLE AND FEASIBLE THE MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY EARTH MOVING PHASE OF THE GRADING IS INITIATED.
13. TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN-PLACE AND ESTABLISHED.
14. TEMPORARY EROSION CONTROL PROCEDURES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO APPLICATION FOR GRADING PERMIT.
15. IF THE GRADING WORK INVOLVES CONTAMINATED SOIL, THEN ALL GRADING WORK SHALL BE DONE IN CONFORMANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS.

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GRADING NOTES (CONT.)

- 17. FOR NON-CITY PROJECTS, THE CONTRACTOR SHALL NOTIFY THE CIVIL ENGINEERING BRANCH, D.P.P. AT 768-8084 TO ARRANGE FOR INSPECTIONAL SERVICES AND SUBMIT TWO (2) SETS OF APPROVED CONSTRUCTION PLANS SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION WORK. FOR CITY PROJECTS, THE CONTRACTOR SHALL COORDINATE INSPECTIONAL SERVICES WITH THE RESPONSIBLE CITY AGENCY.
- 18. PURSUANT TO CHAPTER 6E, HRS, IN THE EVENT ANY ARTIFACTS OR HUMAN REMAINS ARE UNCOVERED DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL IMMEDIATELY SUSPEND WORK AND NOTIFY THE HONOLULU POLICE DEPARTMENT, THE STATE DEPARTMENT OF LAND AND NATURAL RESOURCES-HISTORIC PRESERVATION DIVISION (692- 8015). IN ADDITION, FOR NON-CITY PROJECTS, THE CONTRACTOR SHALL INFORM THE CIVIL ENGINEERING BRANCH, D.P.P. (768-8084); AND FOR CITY PROJECTS, NOTIFY THE RESPONSIBLE CITY AGENCY.
- 19. FOR ALL PROJECTS, WHICH WILL DISTURB ONE (1) ACRE OR MORE OF LAND, THE CONTRACTOR SHALL NOT START CONSTRUCTION UNTIL A NOTICE OF GENERAL PERMIT COVERAGE (NGPC) IS RECEIVED FROM THE DEPARTMENT OF HEALTH, STATE OF HAWAII, AND HAS SATISFIED ANY OTHER APPLICABLE REQUIREMENTS OF THE NPDES PERMIT PROGRAM. ALSO, FOR NON-CITY AND OTHER NON-GOVERNMENTAL AGENCY PROJECTS, THE CONTRACTOR SHALL PROVIDE A WRITTEN COPY OF THE NGPC TO THE PERMITTING AND INSPECTION SECTION, CIVIL ENGINEERING BRANCH, D.P.P., AT LEAST SEVEN (7) CALENDAR DAYS BEFORE THE START OF THE CONSTRUCTION. FOR CITY OR OTHER GOVERNMENTAL PROJECTS, THE CONTRACTOR SHOULD PROVIDE A WRITTEN COPY OF THE NGPC TO THE APPROPRIATE CITY DEPARTMENT OR GOVERNMENTAL AGENCY PER THEIR REQUIREMENTS.
- 20. ALL GRADING AND CONSTRUCTION WORK SHALL IMPLEMENT MEASURES TO ENSURE THAT THE DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE WILL BE REDUCED TO THE MAXIMUM EXTENT PRACTICABLE AND WILL NOT CAUSE OR CONTRIBUTE TO AN EXCEEDANCE OF WATER QUALITY STANDARDS.
- 21. NON-COMPLIANCE TO ANY OF THE ABOVE REQUIREMENTS SHALL MEAN IMMEDIATE SUSPENSION OF ALL WORK, AND REMEDIAL WORK SHALL COMMENCE IMMEDIATELY. ALL COSTS INCURRED SHALL BE BILLED TO THE VIOLATOR. FURTHERMORE, VIOLATORS SHALL BE SUBJECT TO ADMINISTRATIVE, CIVIL AND/OR CRIMINAL PENALTIES.
- 22. FOR BENCH MARK, SEE SHEET C-10.

EROSION PREVENTION BMPS:

- 1. PERMANENT STABILIZATION
 - PRIOR TO CLOSING OF ANY PERMIT(S) PERMANENT STABILIZATION MUST BE IN PLACE WHICH INCLUDES THE FOLLOWING REQUIREMENTS:
 - ALL EXPOSED DISTURBED AREAS MUST BE PERMANENTLY STABILIZED WITH GROUND COVERING SUCH AS VEGETATION, GRAVEL, OR PAVERS;
 - RAIN GUTTERS, DOWNSPOUTS, AND CHANNELIZED FLOWS MUST BE INSTALLED AND FUNCTIONING AS DESIGNED;
 - IN SEEDED AREAS, GRASS OR VEGETATION MUST COVER AT LEAST 90 PERCENT OF THE DISTURBED SOILS OR MUST BE TEMPORARY STABILIZED WHILE ITS GROWING;
 - TEMPORARY MEASURES, SUCH AS SEDIMENT BARRIERS, SHOULD BE REMOVED WHEN PERMANENT MEASURES ARE IN PLACE;
 - ALL PAVED SURFACES MUST BE CLEAN; AND
 - STORM DRAIN INLET FILTERS MUST BE REMOVED AFTER ALL CLEANUP ACTIVITIES HAVE BEEN COMPLETED.
- 2. TEMPORARY STABILIZATION
 - TEMPORARY STABILIZATION IS REQUIRED ON DISTURBED AREAS WHICH ARE AT FINAL GRADE OR WHEN THE DISTURBED AREA WILL NOT BE WORKED FOR 14 CONSECUTIVE DAYS OR MORE.
 - THIS PROJECT WILL USE ROLLED EROSION CONTROL PRODUCTS OR PLANTING AND VEGETATION FOR TEMPORARY STABILIZATION.

SEDIMENT CONTROL BMPS:

- 1. PERIMETER CONTROLS
 - SEDIMENT FENCES OR BARRIERS SHALL BE USED AT THE PERIMETER OF ALL DISTURBED AREAS WHERE THERE IS POTENTIAL FOR RUNOFF TO FLOW OFF THE PROJECT SITE. BARRIERS MAY INCLUDE GRAVEL BAGS, SAND BAGS, FIBER ROLLS, SILT FENCES, COMPOST SOCKS, OR AN EQUIVALENT BMP THAT INTERCEPTS RUNOFF.
- 2. INLET PROTECTION
 - ALL STORM DRAIN INLETS ONSITE AND THOSE OFFSITE WHICH MAY RECEIVE RUNOFF FROM THE SITE SHALL USE AN INLET PROTECTION DEVICE UNLESS THEY ARE DIRECTED TO A SEDIMENT BASIN OR TRAP.

GOOD HOUSEKEEPING BMPS:

- 1. BMP AND SITE MAINTENANCE
 - REGULARLY INSPECT AND MAINTAIN BMP'S TO ENSURE CONTINUED PERFORMANCE.
- 2. DUST CONTROL
 - DUST FROM THE PROJECT SITE SHALL NOT BE TRANSPORTED OR DISCHARGED TO OFF-SITE AREAS.

- THIS PROJECT WILL USE WATER TO MAINTAIN SOIL MOISTURE TO PREVENT DUST.
- 3. CONCRETE WASTE MANAGEMENT
 - PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM CONCRETE WASTE BY CONDUCTING WASHOUT OFFSITE OR PERFORMING ONSITE WASHOUT IN A DESIGNATED AREA CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
 - PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MILLIMETER POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
 - CONTAINMENT AREAS OR DEVICES SHOULD NOT BE LOCATED WHERE ACCIDENTAL RELEASE OF THE CONTAINED LIQUID CAN DISCHARGE TO WATER BODIES, CHANNELS, OR STORM DRAINS.
 - WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75 PERCENT FULL.
 - ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN, THE CONCRETE SHOULD BE BROKEN UP, REMOVED, AND DISPOSED OF AS SOLID WASTES.
- 4. STOCKPILE MANAGEMENT
 - STOCKPILES SHALL NOT BE LOCATED IN DRAINAGE WAYS, WITHIN 50 FEET FROM AREAS OF CONCENTRATED FLOWS, AND ARE NOT ALLOWED IN THE CITY RIGHT-OF-WAY. SEDIMENT BARRIERS OR SILT FENCES SHALL BE USED AROUND THE BASE OF ALL STOCKPILES. STOCKPILES SHALL NOT EXCEED 15 FEET IN HEIGHT. STOCKPILES GREATER THAN 15 FEET IN HEIGHT SHALL REQUIRE 8-FOOT WIDE BENCHING IN ACCORDANCE WITH ROH CHAPTER 14, ARTICLE 15. STOCKPILES MUST BE COVERED WITH PLASTIC SHEETING OR A COMPARABLE MATERIAL IF THEY WILL NOT BE ACTIVELY USED WITHIN 7 DAYS.
- 5. VEHICLE TRACKING CONTROL
 - RESTRICT VEHICLE TRAFFIC TO PROPERLY DESIGNATED AREAS AND REMOVE SEDIMENT FROM VEHICLE TIRES PRIOR TO EXITING THE PROJECT SITE. ALL SEDIMENTS THAT ARE TRACKED OR DISCHARGED OFF-SITE MUST BE SWEEPED OR VACUUMED AT THE END OF EACH DAY.
- 6. MATERIALS DELIVERY, STORAGE, AND USE MANAGEMENT
 - MINIMIZE THE STORAGE OF POTENTIAL POLLUTANTS ONSITE, STORE MATERIALS IN A DESIGNATED AREA, AND INSTALL SECONDARY CONTAINMENT. DO NOT STORE MATERIALS IN BUFFER AREAS, NEAR AREAS OF CONCENTRATED FLOW, OR AREAS ABUTTING THE CITY STORM DRAINAGE SYSTEM, RECEIVING WATERS, OR DRAINAGE IMPROVEMENTS THAT DISCHARGE OFF-SITE.
- 7. SPILL PREVENTION AND CONTROL
 - KEEP AMPLE SUPPLY OF CLEANUP MATERIALS ONSITE. CLEAN UP SPILLS IMMEDIATELY, USING DRY CLEAN-UP METHODS WHERE POSSIBLE, AND DISPOSE OF USED MATERIALS PROPERLY.
- 8. GOOD WASTE MANAGEMENT
 - PREVENT OR REDUCE DISCHARGE OF POLLUTANTS TO THE LAND, GROUNDWATER, AND IN STORM WATER FROM SOLID WASTE OR CONSTRUCTION AND DEMOLITION WASTE BY PROVIDING DESIGNATED WASTE COLLECTION AREAS, COLLECT SITE TRASH DAILY, AND ENSURING THAT CONSTRUCTION WASTE IS COLLECTED, REMOVED, AND DISPOSED OF ONLY AT AUTHORIZED DISPOSAL AREAS.
- 9. PORTABLE TOILETS (SANITARY/SEPTIC WASTE MANAGEMENT)
 - TEMPORARY AND PORTABLE SANITARY AND SEPTIC WASTE SYSTEMS SHALL BE MOUNTED OR STAKED IN, WELL-MAINTAINED, AND SCHEDULED FOR REGULAR WASTE DISPOSAL AND SERVICING. SOURCES OF SANITARY AND/OR SEPTIC WASTE SHALL NOT BE STORED NEAR THE MS4 OR RECEIVING WATERS.
- 10. VEHICLE AND EQUIPMENT CLEANING, FUELING, AND MAINTENANCE
 - PREVENT POLLUTANTS IN STORM WATER FROM VEHICLE AND EQUIPMENT CLEANING, FUELING AND MAINTENANCE BY USING OFF-SITE FACILITIES WHEN FEASIBLE, PERFORMING WORK IN DESIGNATED AREAS ONLY, USING SPILL PADS UNDER VEHICLES AND EQUIPMENT, CHECKING FOR LEAKS AND SPILLS, AND CONTAINING AND CLEANING UP SPILLS IMMEDIATELY.
- 11. HAZARDOUS WASTE MANAGEMENT
 - PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORM WATER FROM HAZARDOUS WASTE THROUGH PROPER MATERIAL USE AND WASTE DISPOSAL.
- 12. CONTAMINATED SOIL MANAGEMENT
 - CONTAIN CONTAMINATED MATERIAL SOIL BY SURROUNDING WITH IMPERMEABLE LINED BERMS OR COVER EXPOSED CONTAMINATED MATERIAL WITH PLASTIC SHEETS. CONTAMINATED SOIL SHALL BE DISPOSED OF PROPERLY IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

OMITTED BMPS:

A COMPREHENSIVE LIST OF BMPS BASED ON THE DPP RULES RELATING TO WATER QUALITY AND GUIDANCE DOCUMENTS MENTIONED ABOVE, WERE REVIEWED TO COMPLETE THIS ESCP. THE FOLLOWING BMPS WERE DETERMINED TO BE NOT APPLICABLE BECAUSE THEY WOULD NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL BASED ON THE SPECIFIC SITE CONDITIONS. AS CONSTRUCTION PROGRESSES, REVISIONS MAY BE NECESSARY AND WILL BE PROVIDED TO DPP INSPECTORS.

OMITTED BMPS	RATIONALE
DEWATERING OPERATIONS	THERE WILL BE NO DEWATERING ONSITE.
LIQUID WASTE MANAGEMENT	THERE WILL BE NO LIQUID WASTE OR NON-STORM WATER ON SITE.
SLOPE MANAGEMENT AND PROTECTION	ALL WORK WILL BE ON SLOPES LESS THAN 15%.
CONTAMINATED SOIL MANAGEMENT	THERE ARE NO CONTAMINATED SOILS ANTICIPATED ON SITE.

PUBLIC HEALTH, SAFETY, AND CONVENIENCE NOTES:

- 1. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF THE PUBLIC HEALTH, SAFETY AND ENVIRONMENTAL QUALITY.
- 2. THE CONTRACTOR, AT HIS OWN EXPENSE SHALL KEEP THE PROJECT AND ITS SURROUNDING AREAS FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.
- 3. NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION ACTIVITY SO AS TO CAUSE FALLING ROCK, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY.
- 4. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION, CONVENIENCE AND SAFETY OF THE PUBLIC. THE CONTRACTOR SHALL APPLY FOR A CONSTRUCTION PERMIT WITH A NOISE POLLUTION CONTROL PLAN.

BEST MANAGEMENT PRACTICES (BMP'S) NOTES:

- 1. SEDIMENT CONTROL MEASURES AS REFLECTED ON THIS PLAN SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 2. INSTALLATION OF SEDIMENT CONTROL DOWN-SLOPE OF DISTURBED AREAS WHERE SOIL IS EXPOSED AND AT EXISTING DRAIN INLETS.
- 3. INSTALLATION OF EROSION CONTROL (GRASSING) AT DISTURBED AREAS WHERE SOIL IS EXPOSED.
- 4. CONTRACTOR SHALL PREVENT DUST RESULTING FROM HIS WORK FROM BECOMING AIR-BORNE AT ALL TIMES, INCLUDING NON-WORKING HOURS, WEEKENDS, AND HOLIDAYS, IN CONFORMANCE WITH STATE DEPARTMENT OF HEALTH ADMINISTRATIVE RULES, TITLE 11, CHAPTER 60.1-AIR POLLUTION CONTROL.
- 5. BEST MANAGEMENT PRACTICES (BMP'S) SHALL NOT BE REMOVED UNTIL AFTER THE COMPLETION OF THIS PROJECT. CONTRACTOR SHALL PROVIDE CONTINUOUS MAINTENANCE AND ADJUSTMENT OF SEDIMENT CONTROL MEASURES DURING THE CONSTRUCTION PERIOD.

SCHEDULE NOTES:

- 1. AN ESCP COORDINATOR FOR THE PROJECT MUST BE DESIGNATED TO DPP IN WRITING BEFORE PERMIT ISSUANCE USING APPENDIX A OR B OF THE RULES RELATING TO WATER QUALITY.
- 2. NOTIFY DPP IN WRITING TWO WEEKS PRIOR TO STARTING WORK BY EMAIL OR PHONE: 768-8132.
- 3. MEASURES TO PREVENT AND CONTROL EROSION AND OTHER CONTAMINANTS SHALL BE IN PLACE BEFORE ANY EARTHWORK IS INITIATED.
- 4. BEST MANAGEMENT PRACTICES (BMPS) SHALL NOT BE REMOVED UNTIL FINAL STABILIZATION IS COMPLETE.
- 5. PRACTICE GOOD HOUSEKEEPING MEASURES THROUGHOUT THE DURATION OF CONSTRUCTION.
- 6. INSPECTIONS WILL BE PERFORMED MONTHLY AT A MINIMUM AND MAY BE PERFORMED MORE FREQUENTLY AS NEEDED.

PROJECT SCHEDULE:

THE FOLLOWING IS THE PLANNED SEQUENCE AND TIMELINE OF ACTIVITIES. REVISIONS MAY BE NECESSARY AND WILL BE PROVIDED TO DPP INSPECTORS.

ACTION	TIMELINE OR DATE
NOTIFY THE DEPARTMENT OF PLANNING AND PERMITTING OF PROJECT START DATE 808-768-8132	2 WEEKS BEFORE STARTING WORK
INSTALL DRAIN INLET PROTECTION AND PERIMETER CONTROLS (PHASE 1)	DAY 1
PERFORM PRE-CONSTRUCTION INSPECTION (PHASE 1)	DAY 1
CIVIL SITEWORK INCLUDING DEMOLITION, A.C. REPAVEMENT, AND CONCRETE SIDEWALKS THROUGH FINAL STABILIZATION (PHASE 1)	1 MONTH
PERFORM PRE-CONSTRUCTION INSPECTION (PHASE 2)	1 DAY
CIVIL SITEWORK INCLUDING DEMOLITION, A.C. REPAVEMENT, AND CONCRETE SIDEWALKS THROUGH FINAL STABILIZATION (PHASE 2)	1 MONTH
PERFORM PRE-CONSTRUCTION INSPECTION (PHASE 3)	1 DAY
CIVIL SITEWORK INCLUDING DEMOLITION, A.C. REPAVEMENT, AND CONCRETE SIDEWALKS THROUGH FINAL STABILIZATION (PHASE 3)	1 MONTH
DEMobilize EQUIPMENT AND MATERIALS	2 DAYS
REMOVE PERIMETER CONTROLS	1 DAY
SWEEPING AND WASTE DISPOSAL	DAILY

RAIN RESPONSE PLAN:

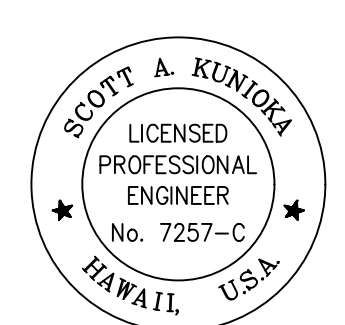
THE FOLLOWING WILL BE PERFORMED WHEN SEVERE RAIN IS IMMINENT OR IS FORECASTED IN THE NEXT 48 HOURS:

- 1. TEMPORARILY SUSPEND LAND DISTURBING ACTIVITIES INCLUDING CLEARING, GRUBBING, GRADING, AND TRENCHING.
- 2. INSPECT ALL BMP'S AND MAINTAIN AS NEEDED.
- 3. REINSTALL BMP'S THAT WERE REMOVED DUE TO ACTIVE WORK N THE AREA.
- 4. IF A SEVERE STORM IS EXPECTED, REMOVE INLET PROTECTION DEVICES TO PREVENT FLOODING ON SURROUNDING STREETS.
- 5. COVER OR RELOCATE MATERIAL STOCKPILES AND LIQUID MATERIAL CONTAINERS TO AVOID CONTACT WITH RAINWATER.
- 6. PLACE SPILL PANS OR OIL-ONLY SPILL PADS UNDER CONSTRUCTION VEHICLES TO PREVENT RUNOFF FROM CONTACTING ANY SPILLED PETROLEUM PRODUCTS. PROPERLY DISPOSE OF ANY ACCUMULATED OILY WATER AFTER THE RAIN EVENT.
- 7. RE-INSPECT PROJECT SITE AFTER THE RAIN EVENT AND REPLACE OR MAINTAIN BMP'S AS NEEDED.

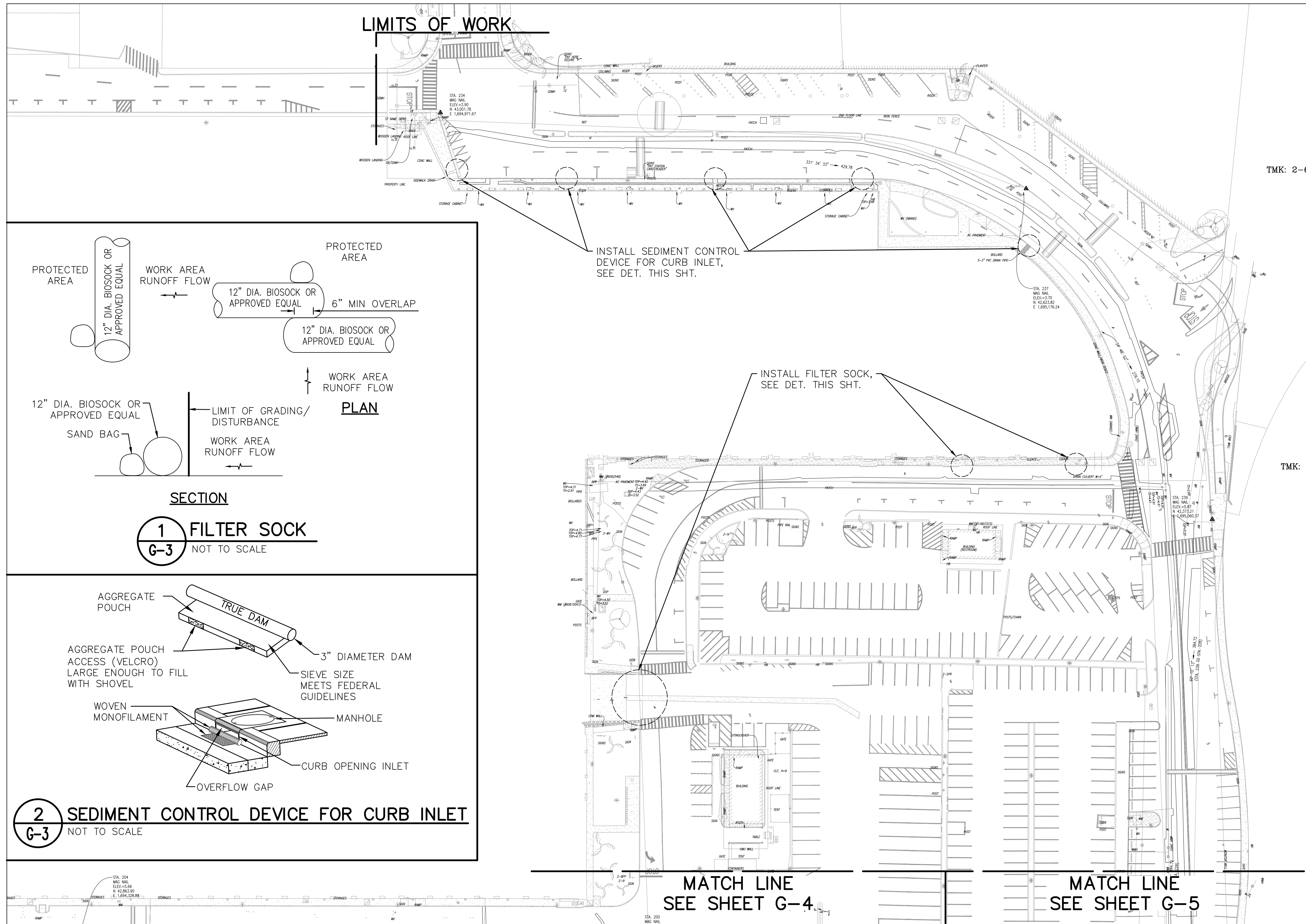
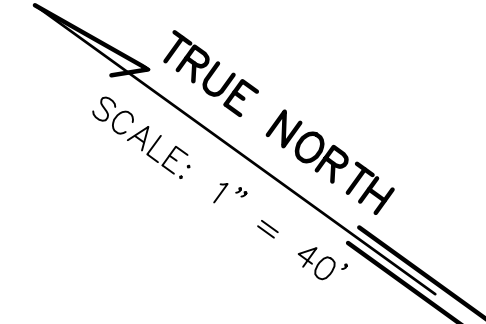
ESCP INSPECTION NOTES:

- 1. AT LEAST TWO WEEKS BEFORE THE BEGINNING CONSTRUCTION, THE CONTRACTOR OR THE PERSON IN CHARGE OF CONSTRUCTION SHALL NOTIFY THE STORM WATER INSPECTOR LISTED ON THE BUILDING PERMIT.
- 2. AFTER INSTALLING THE CONSTRUCTION BMP'S AND MOBILIZING ANY CONSTRUCTION APPARATUS IN ACCORDANCE WITH THE APPROVED ESCP (OR APPENDIX B - ESCP FOR SMALL PROJECT TEMPLATE), THE CONTRACTOR OR THE PERSON IN CHARGE OF CONSTRUCTION SHALL CONTACT THE ESCP COORDINATOR LISTED ON THE BUILDING PERMIT, FOR A PRECONSTRUCTION INSPECTION.
- 3. THE ESCP COORDINATOR SHALL SUBMIT THE PRECONSTRUCTION INSPECTION CHECKLIST TO THE STORM WATER INSPECTOR (EMAIL TO DPP.NPDES@HONOLULU.GOV) CONFIRMING THE BMP'S AND GOOD HOUSE KEEPING MEASURES ARE IN COMPLIANCE.

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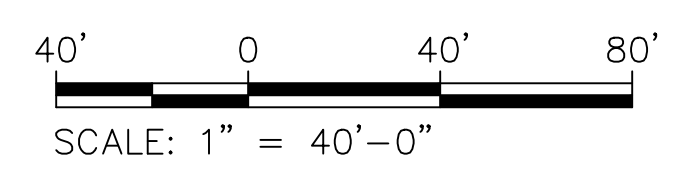
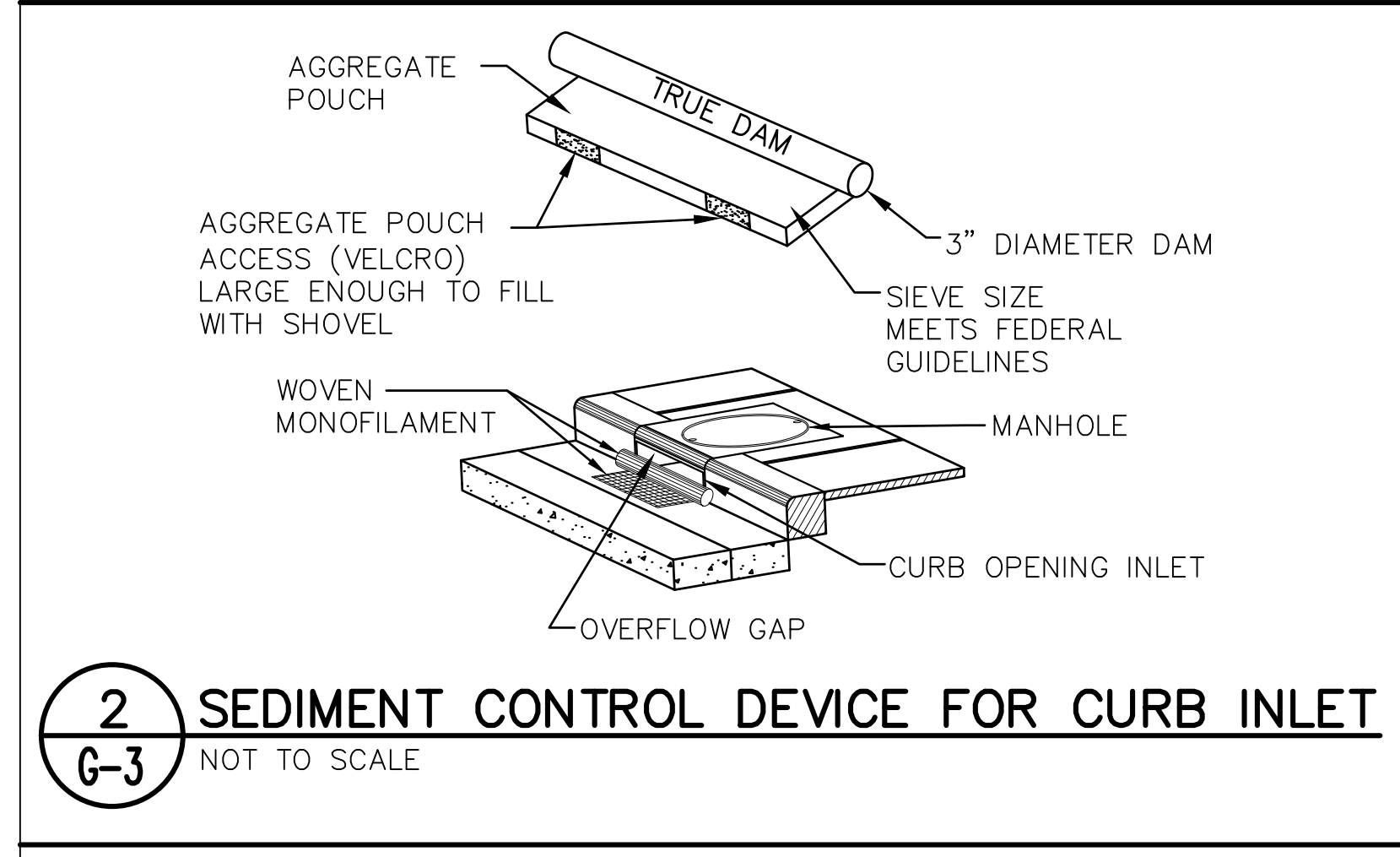
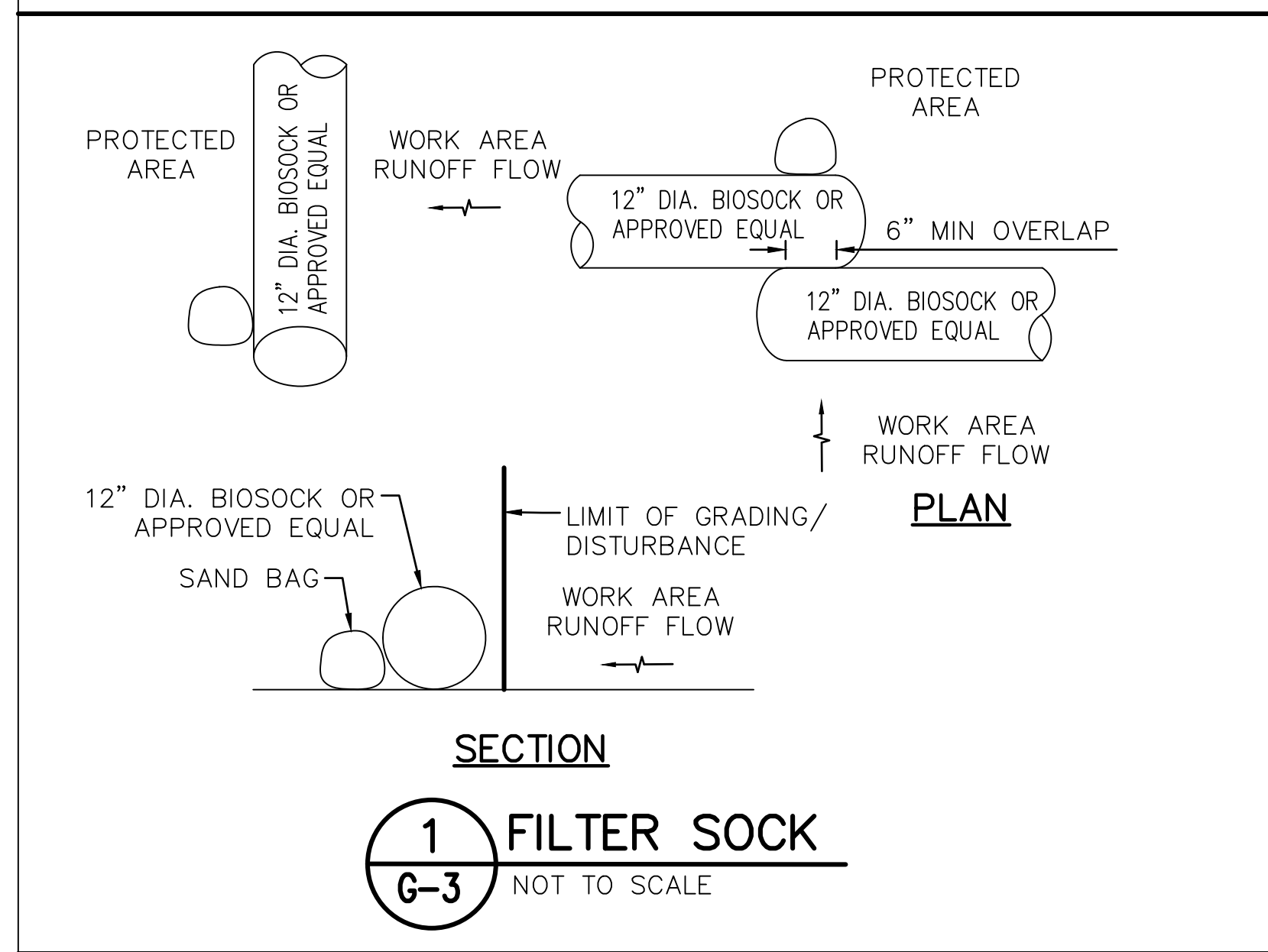
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			DESIGNED: KJM DRAWN: AHC CHECKED: SAK APPROVED: _____ CHIEF ENGINEER		
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JOB NO. B71C075A ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS



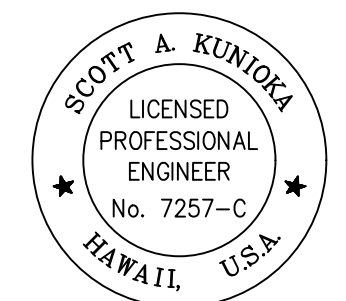
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TMK: 2-3-37: 21



EROSION AND SEDIMENT CONTROL PLAN 01
SCALE: 1" = 40'-0"

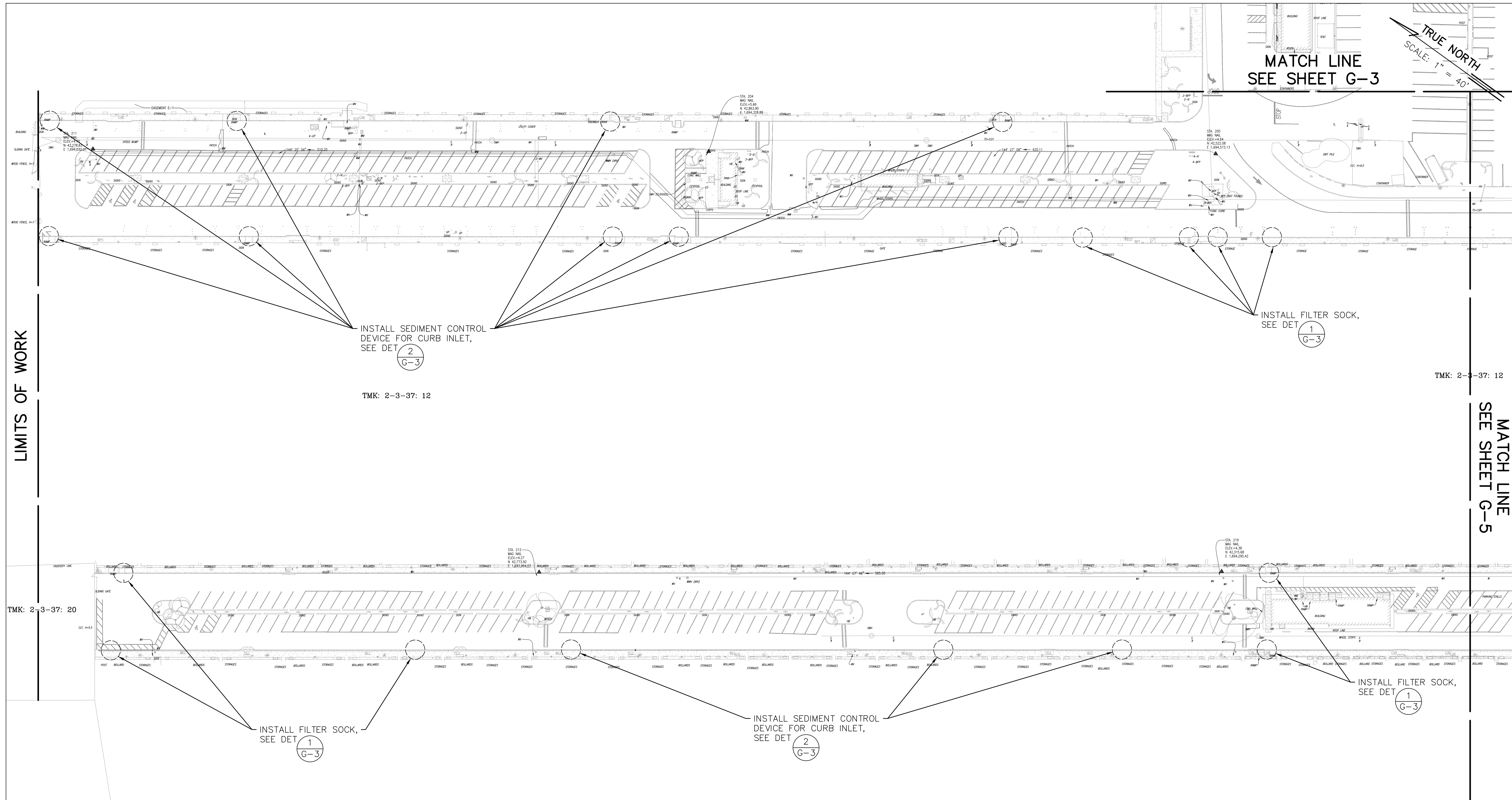
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ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
EROSION & SEDIMENT CONTROL PLAN 01					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			G-3		



Scott A. Kunioka
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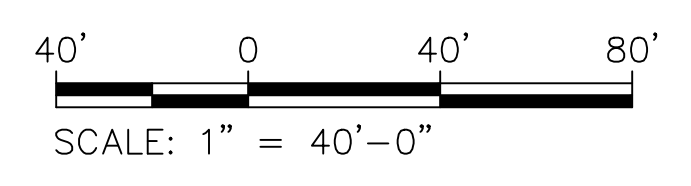
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TMK: 2-3-37: 12

TMK: 2-3-37: 12

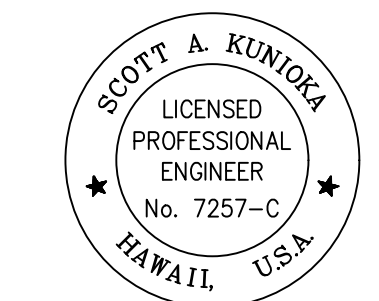
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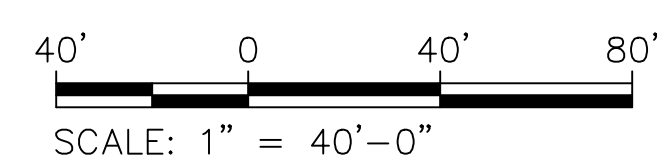
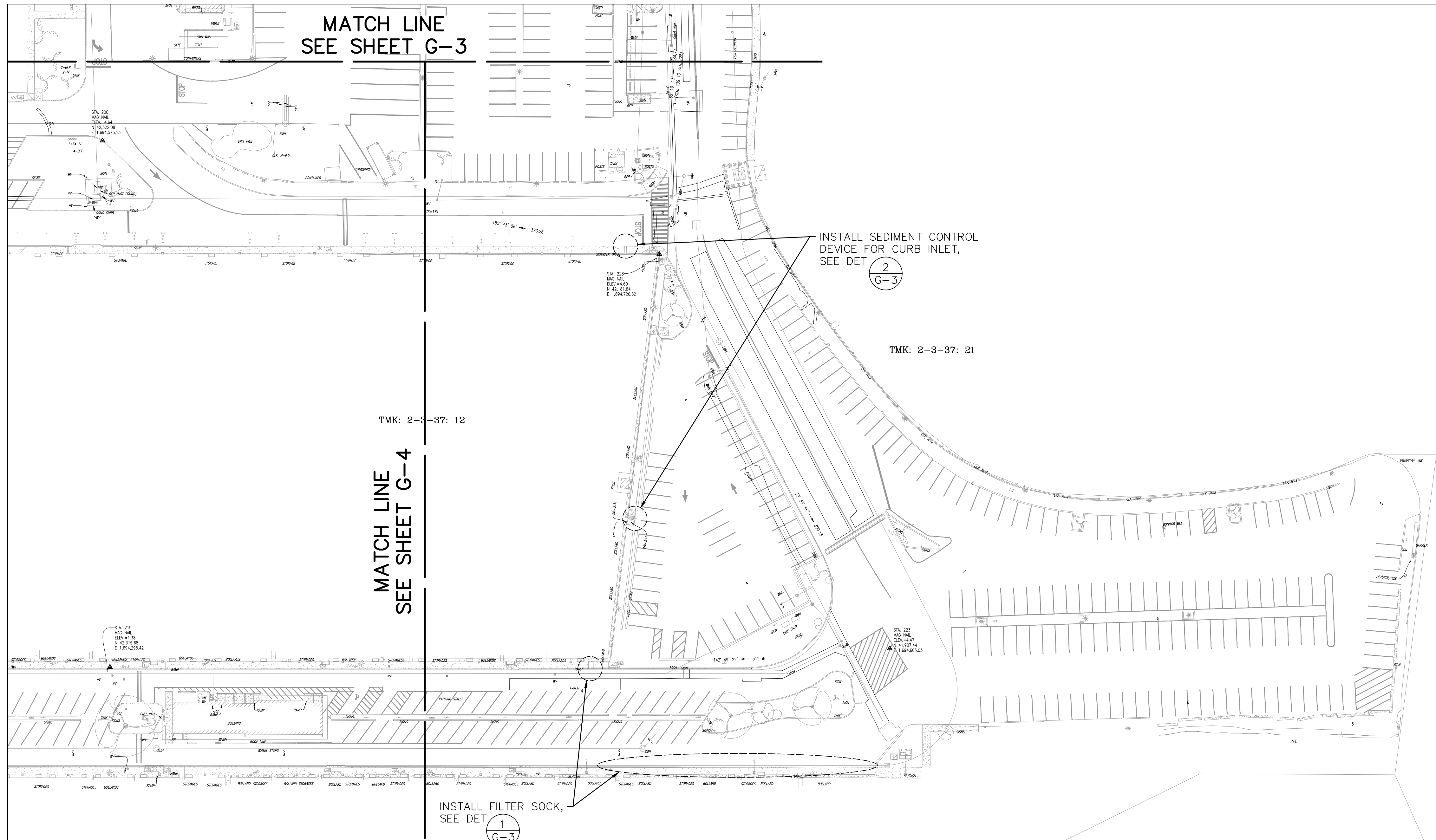
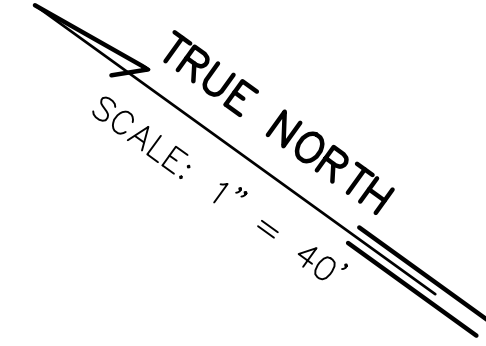


EROSION AND SEDIMENT CONTROL PLAN 02
 SCALE: 1" = 40'-0"

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DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
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CHIEF ENGINEER			G-4		



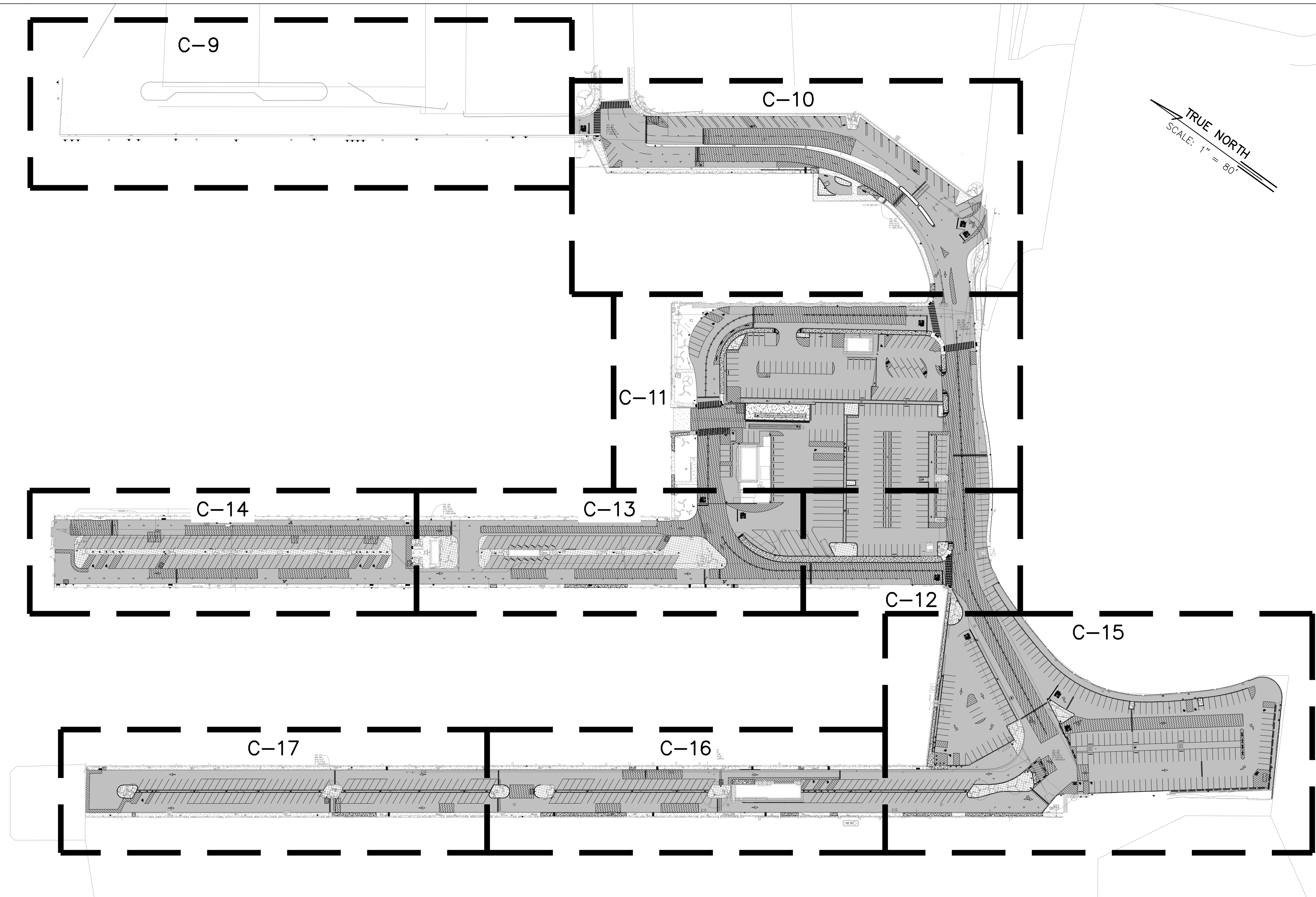
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EROSION AND SEDIMENT CONTROL PLAN 03
SCALE: 1" = 40'-0"

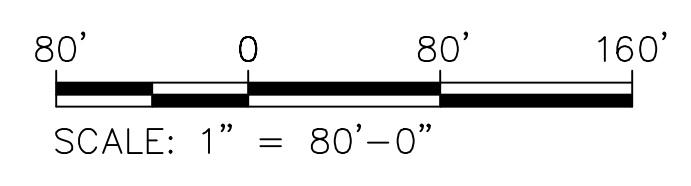
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EROSION & SEDIMENT CONTROL PLAN 03					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
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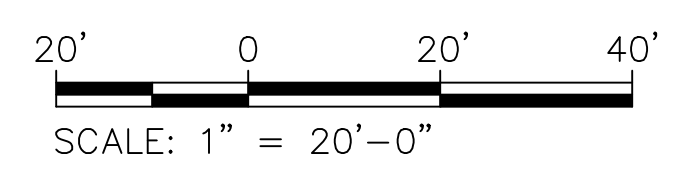
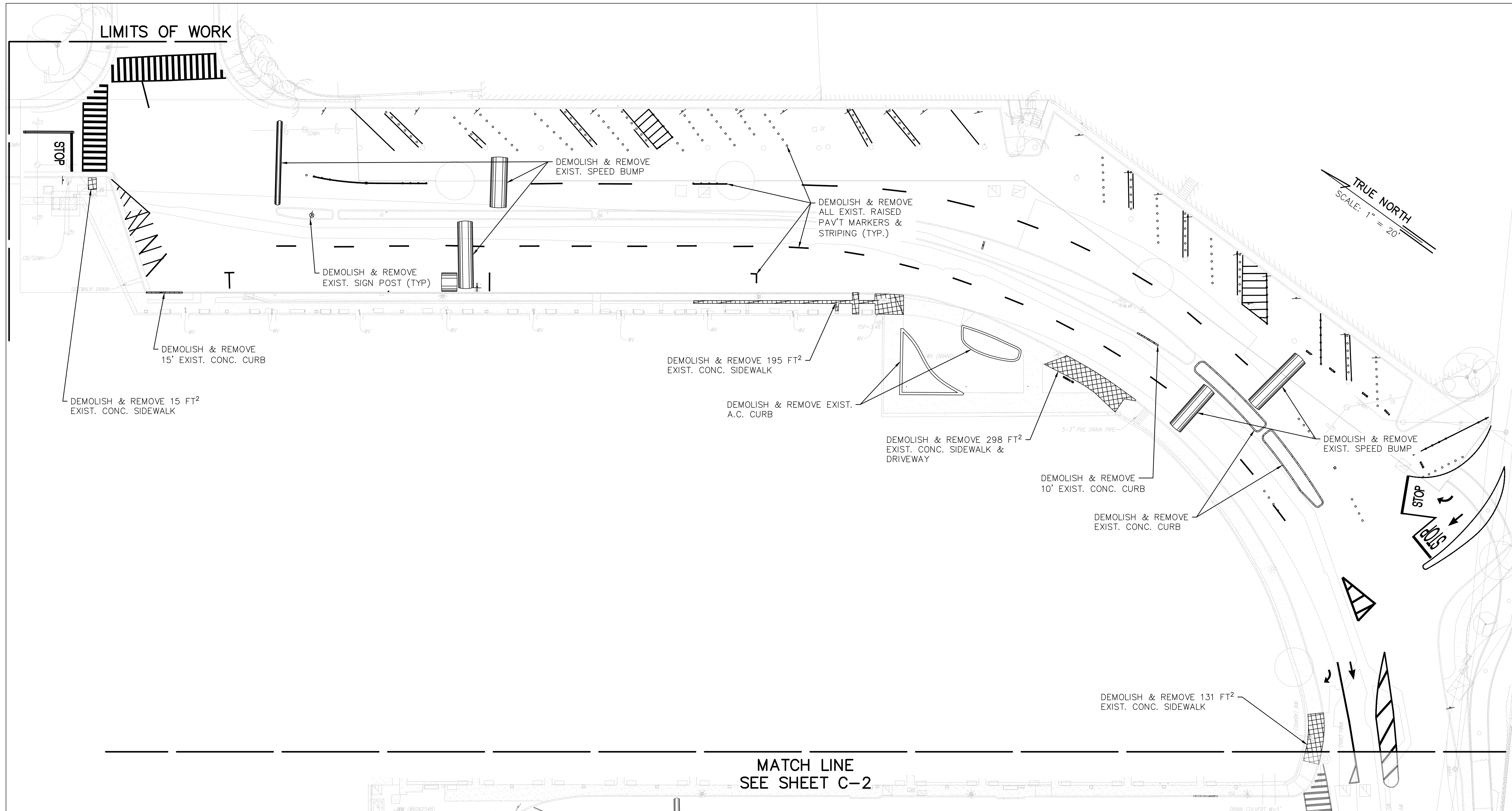
TRUE NORTH
SCALE: 1" = 80'

GENERAL SITE PLAN
SCALE: 1" = 80'-0"



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Last Saved: 5/7/2026
Plotted on: 5/7/2026
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DESIGNED: KJM			SUBMITTED:		
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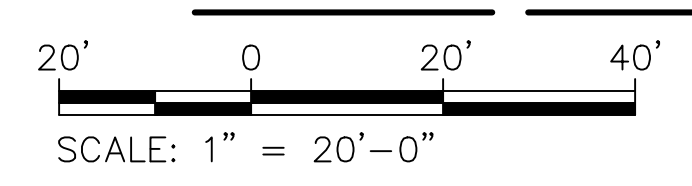
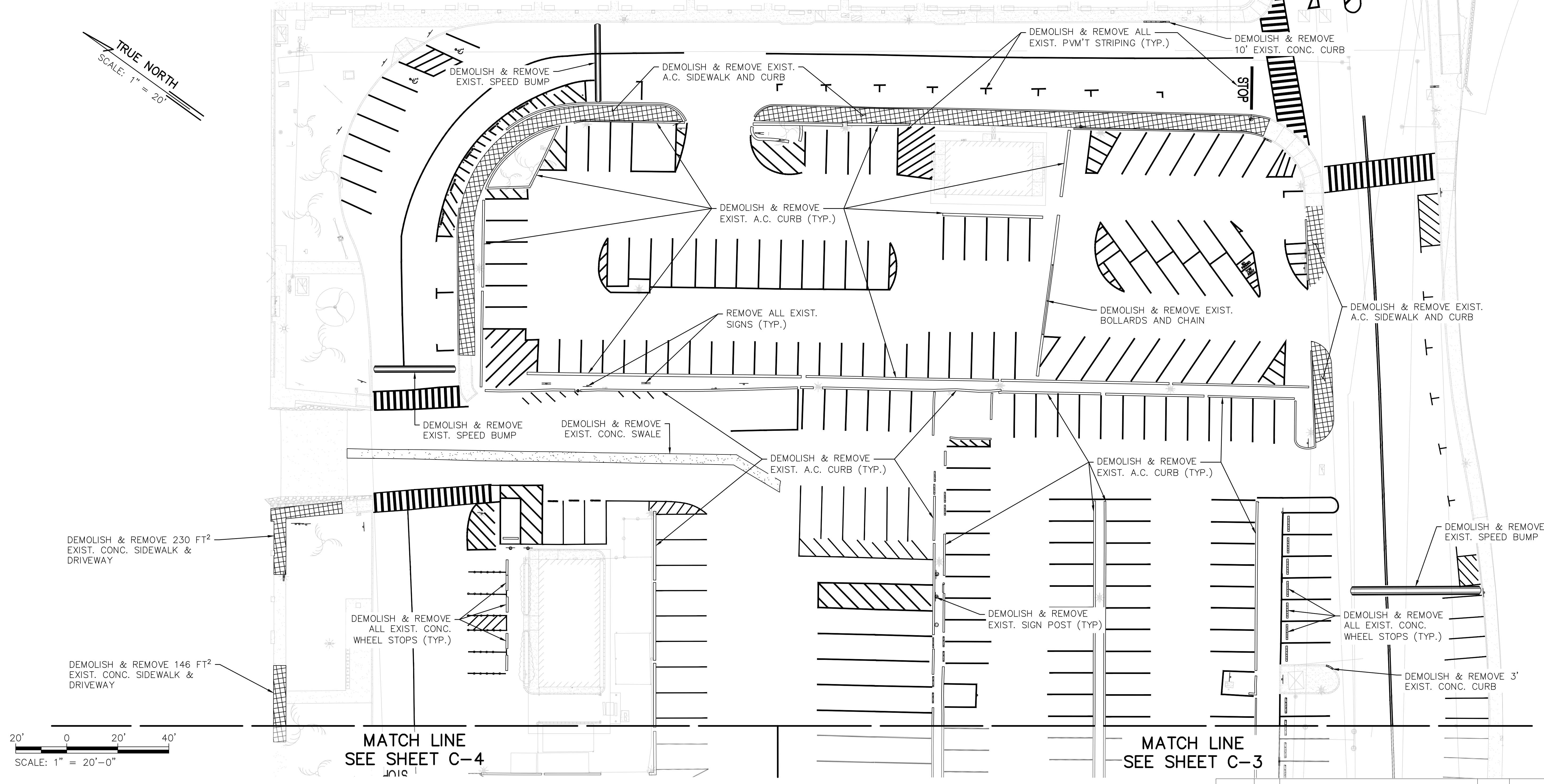
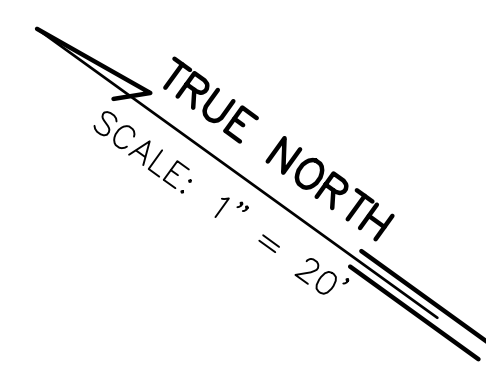


DEMOLITION PLAN 01
SCALE: 1" = 20'-0"

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ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
DEMOLITION PLAN 01					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
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CHIEF ENGINEER			C-1		

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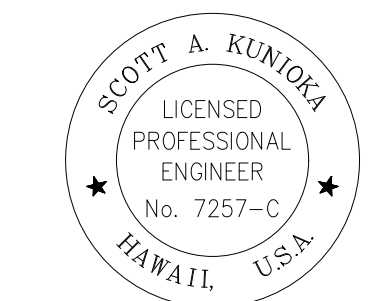
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MATCH LINE
SEE SHEET C-3

DEMOLITION PLAN 02

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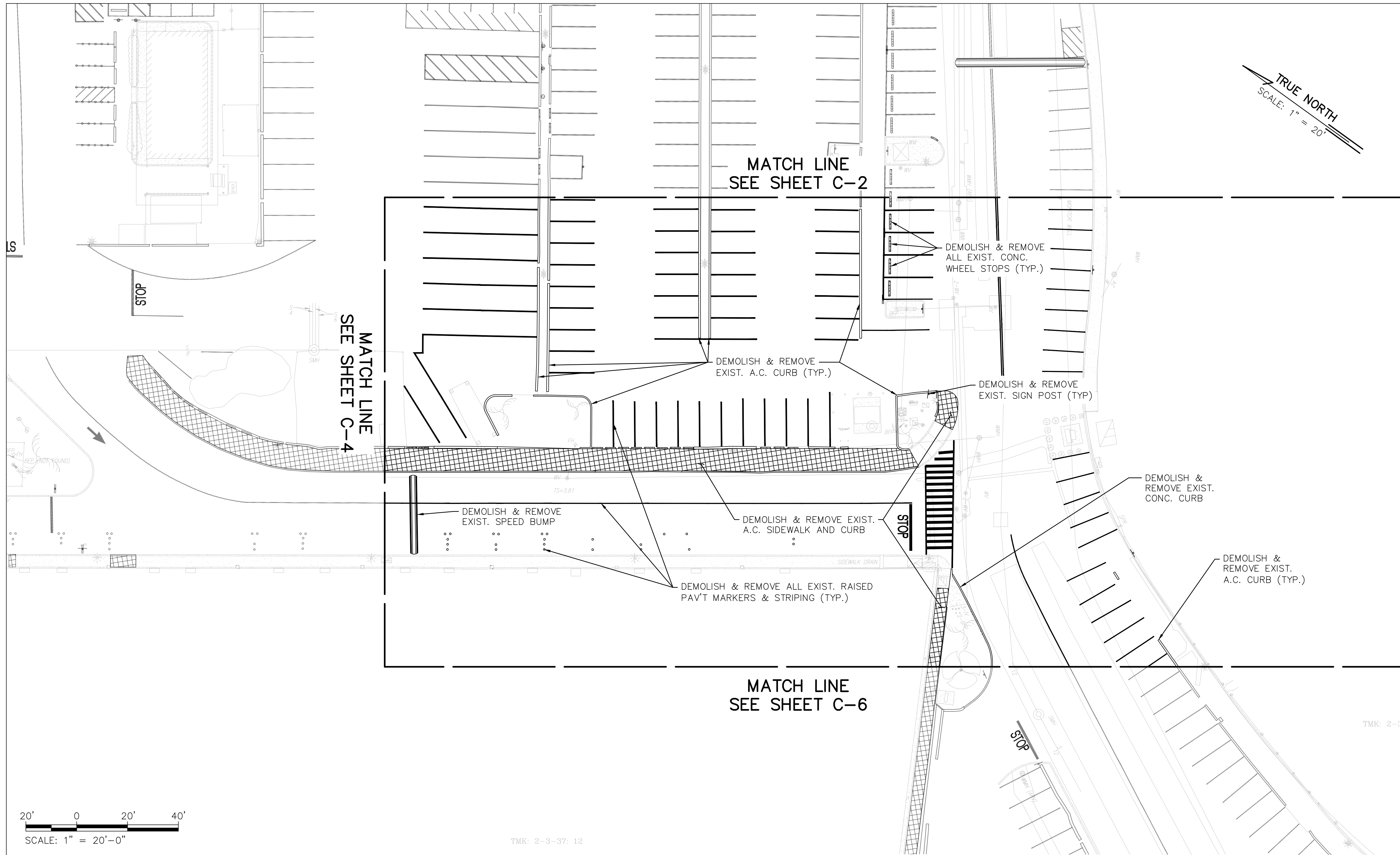
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ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
DEMOLITION PLAN 02					
DESIGNED: KJM			SUBMITTED:		
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CHECKED: SAK			SCALE: AS NOTED		
APPROVED:					DRAWING NO.
CHIEF ENGINEER					C-2



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TRUE NORTH
SCALE: 1" = 20'



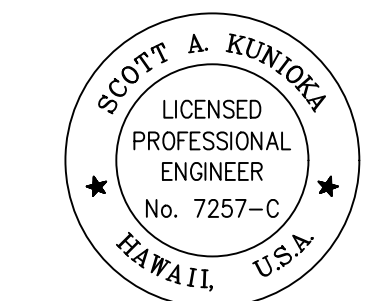
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SCALE: 1" = 20'-0"

DEMOLITION PLAN 03
SCALE: 1" = 20'-0"

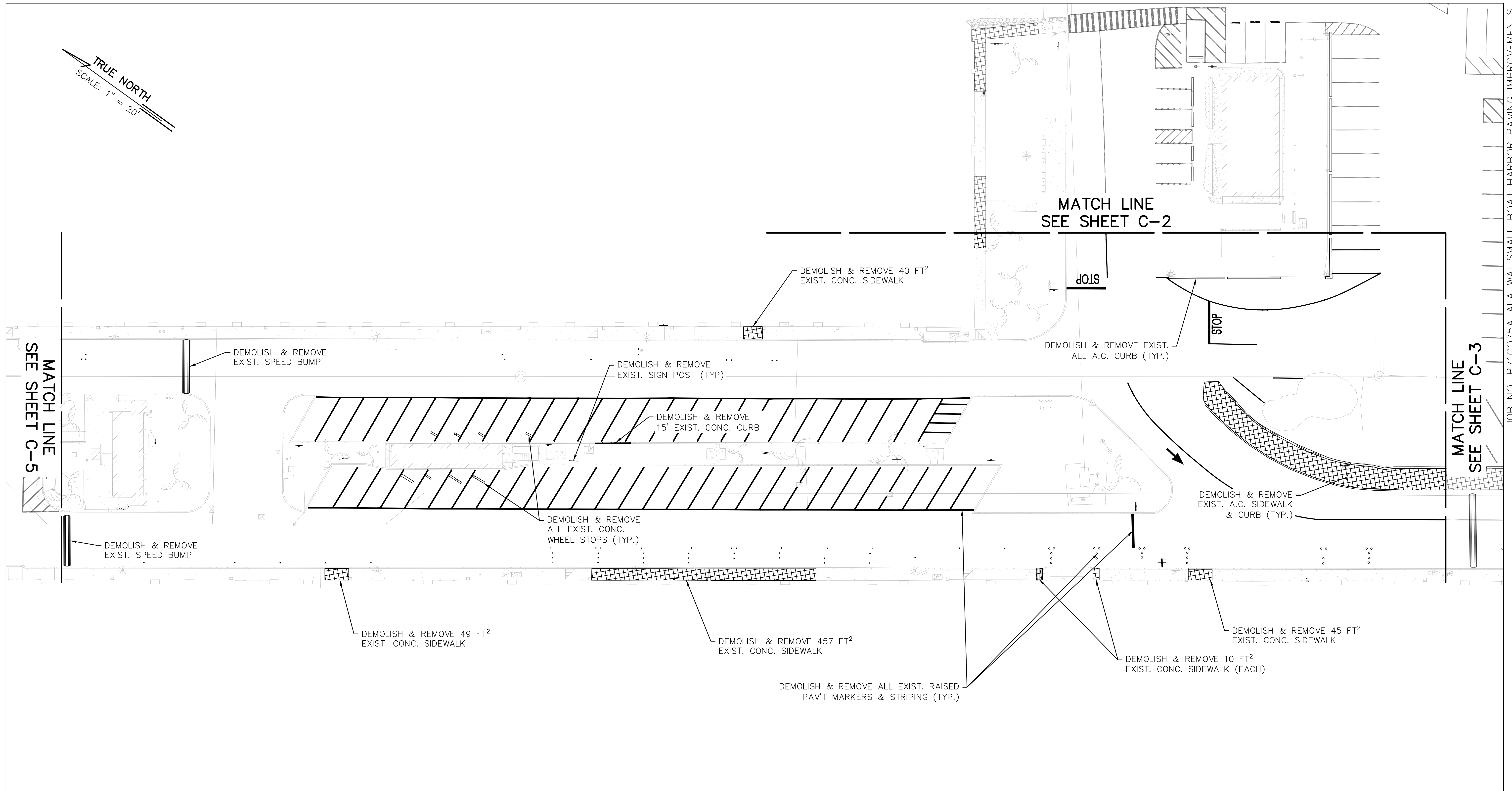
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ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
DEMOLITION PLAN 03					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			C-3		



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Plotted on: 5/7/2026
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TRUE NORTH
SCALE: 1" = 20'



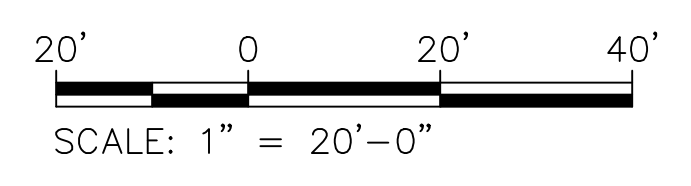
MATCH LINE
SEE SHEET C-5

MATCH LINE
SEE SHEET C-2

MATCH LINE
SEE SHEET C-3

JOB NO. B71C075A ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS

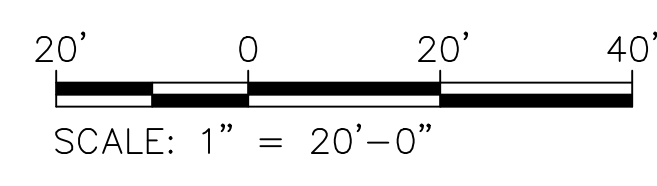
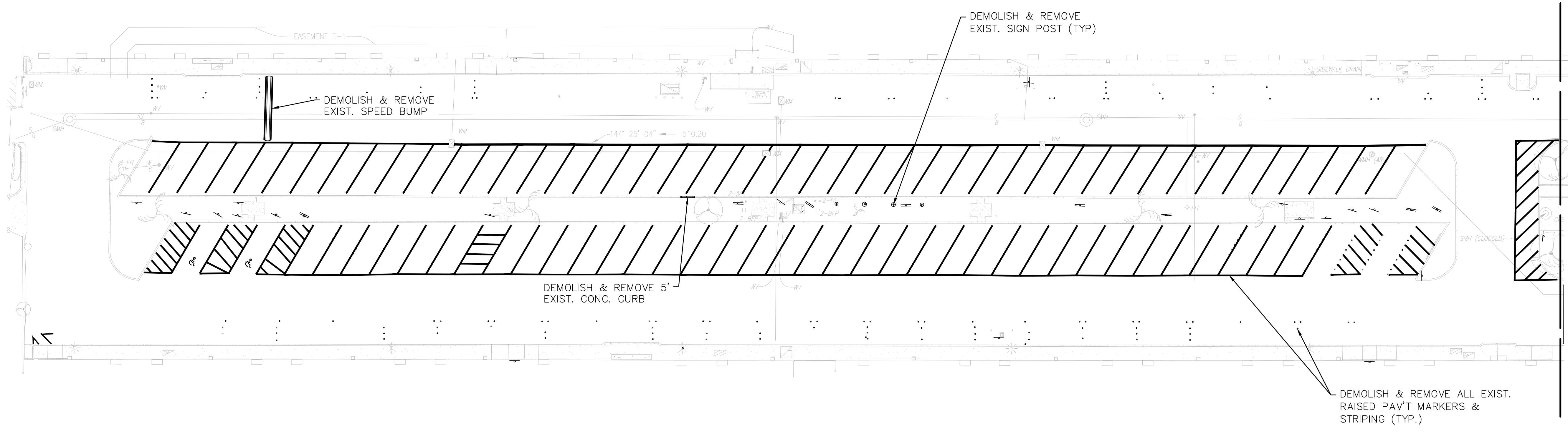
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Last Saved: 5/6/2026
Plotted on: 5/7/2026
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DEMOLITION PLAN 04
SCALE: 1" = 20'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
DEMOLITION PLAN 04					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			DATE		
			C-4		

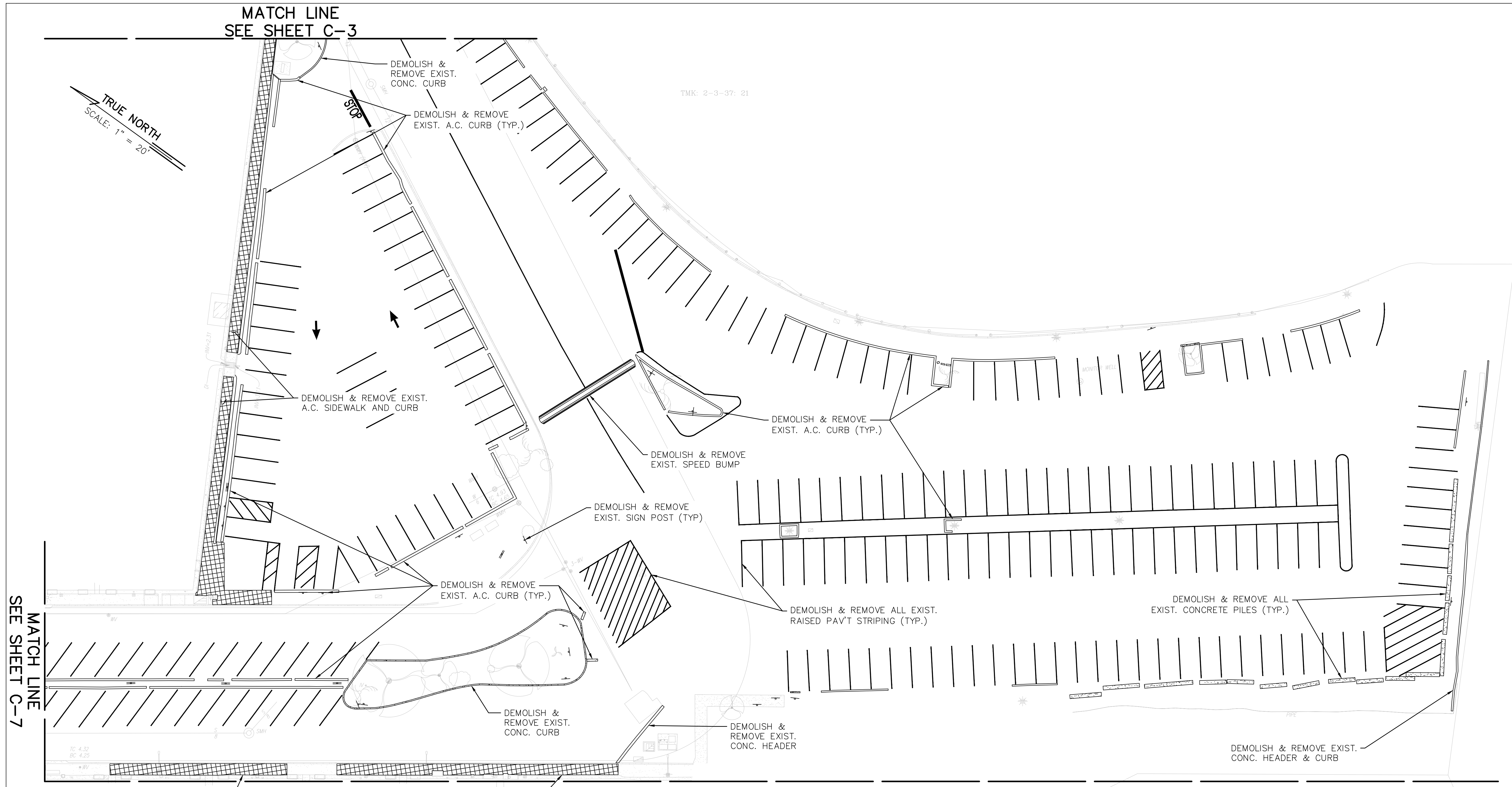
TRUE NORTH
SCALE: 1" = 20'



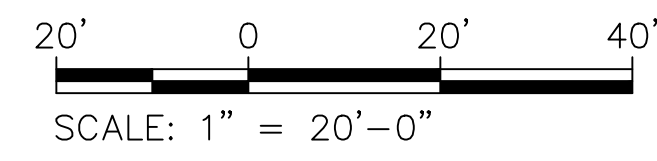
DEMOLITION PLAN 05
SCALE: 1" = 20'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
DEMOLITION PLAN 05					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			C-5		

Last Save by: KJM
Last Saved: 5/6/2026
Plotted on: 5/7/2026
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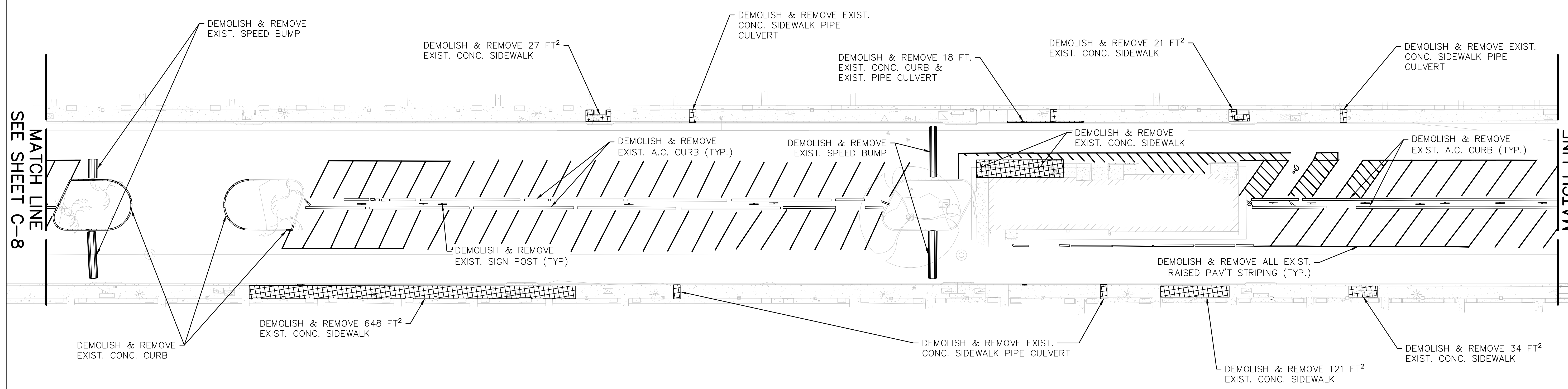
DEMOLITION PLAN 06
SCALE: 1" = 20'-0"



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII DEMOLITION PLAN 06					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			C-6		

Last Save by: KJM
 Last Saved: 5/6/2026
 Plotted on: 5/7/2026
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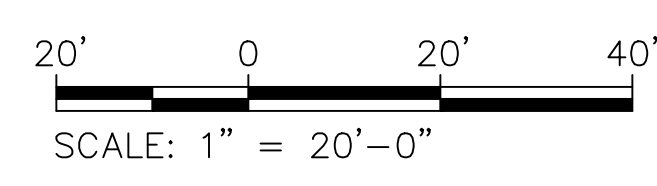
TRUE NORTH
SCALE: 1" = 20'



MATCH LINE
SEE SHEET C-8

MATCH LINE
SEE SHEET C-6

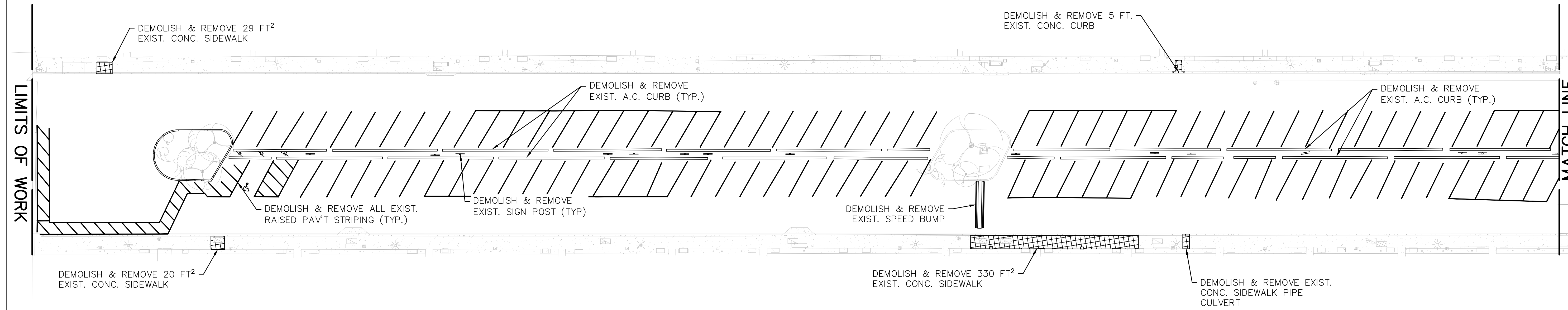
DEMOLITION PLAN 07
SCALE: 1" = 20'-0"



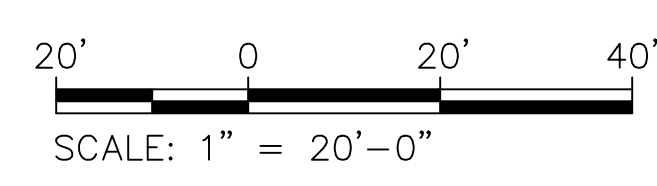
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Last Saved: 5/6/2026
Plotted on: 5/7/2026
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REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII DEMOLITION PLAN 07					
			DESIGNED: KJM DRAWN: AHC CHECKED: SAK APPROVED: _____ CHIEF ENGINEER		
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION LICENSE EXPIRES 4/30/28			SUBMITTED: _____ DATE: MAY 2026 SCALE: AS NOTED DATE: _____		
					DRAWING NO. C-7

TRUE NORTH
SCALE: 1" = 20'

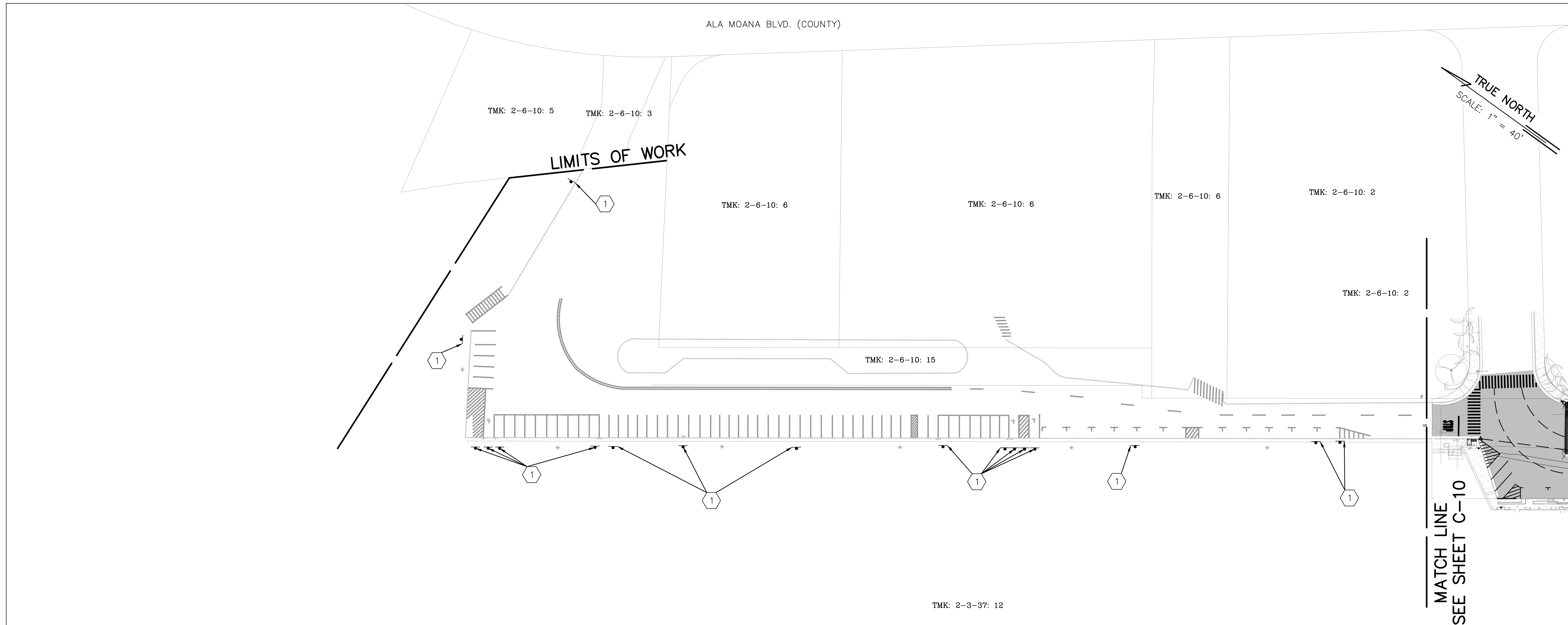


DEMOLITION PLAN 08
SCALE: 1" = 20'-0"



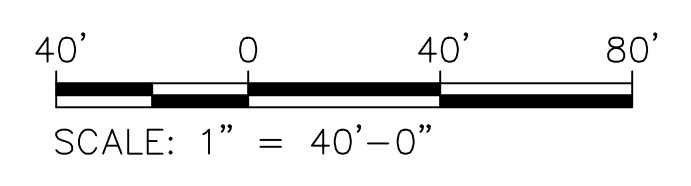
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII DEMOLITION PLAN 08					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			DATE		
			C-8		

Last Save by: KJM
Last Saved: 5/6/2026
Plotted on: 5/7/2026
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NOTE:
 1. SEE STRIPING & SIGNAGE PLANS FOR PAVEMENT MARKING LAYOUT.
 2. DEMOLISH & REMOVE EXISTING SIGNS THAT ARE RELOCATED OR DUPLICATED BY THE NEWLY INSTALLED SIGNS.

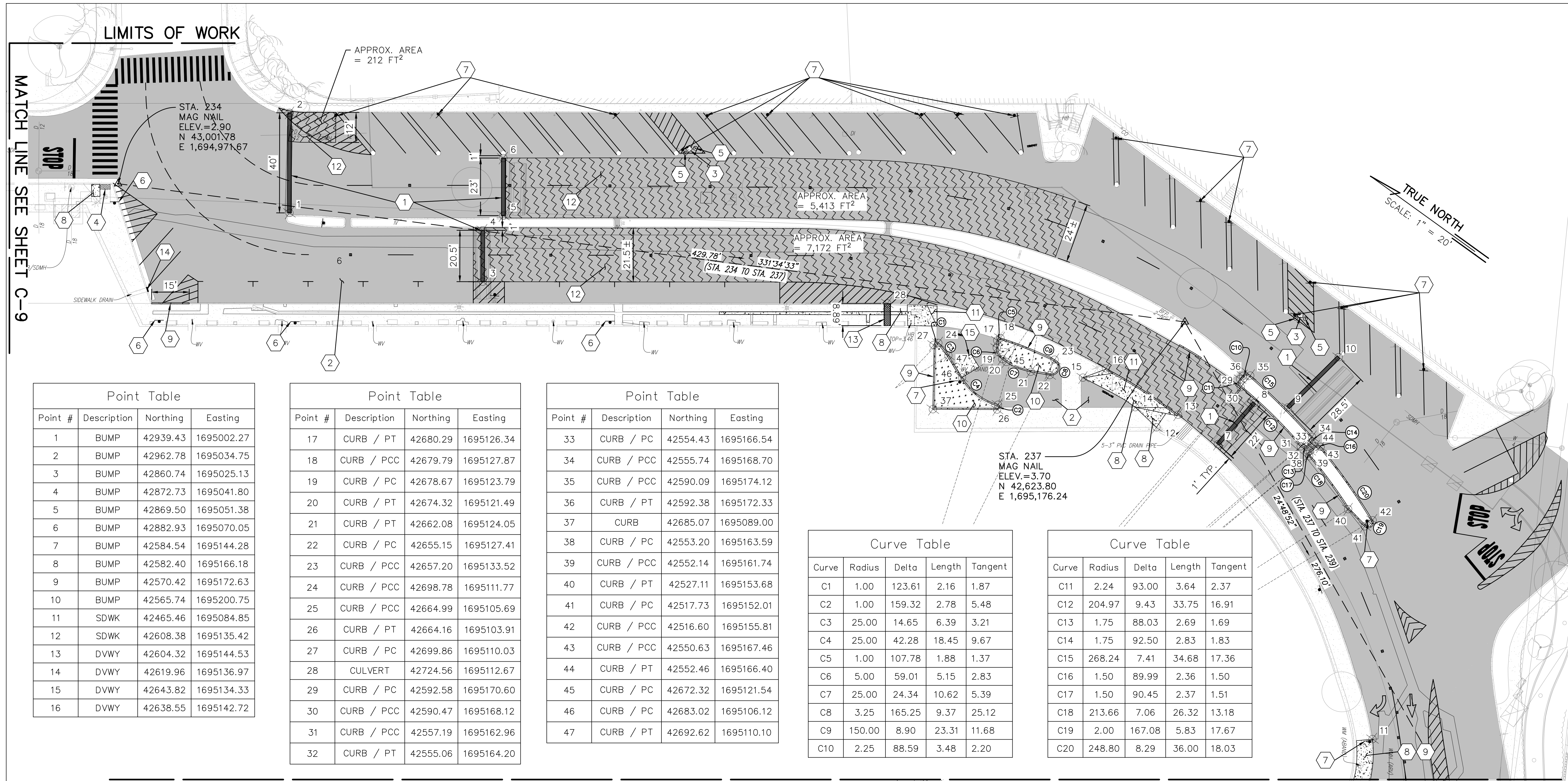
① INSTALL NEW SURFACE-MOUNTED SIGN POST, SEE DET 4
C-42



SITE PLAN 01
 SCALE: 1" = 40'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
SITE PLAN 01					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			C-9		

Last Save by: ACHEN
 Last Saved: 5/7/2026
 Plotted on: 5/7/2026
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Point Table

Point #	Description	Northing	Easting
1	BUMP	42939.43	1695002.27
2	BUMP	42962.78	1695034.75
3	BUMP	42860.74	1695025.13
4	BUMP	42872.73	1695041.80
5	BUMP	42869.50	1695051.38
6	BUMP	42882.93	1695070.05
7	BUMP	42584.54	1695144.28
8	BUMP	42582.40	1695166.18
9	BUMP	42570.42	1695172.63
10	BUMP	42565.74	1695200.75
11	SDWK	42465.46	1695084.85
12	SDWK	42608.38	1695135.42
13	DVWY	42604.32	1695144.53
14	DVWY	42619.96	1695136.97
15	DVWY	42643.82	1695134.33
16	DVWY	42638.55	1695142.72

Point Table

Point #	Description	Northing	Easting
17	CURB / PT	42680.29	1695126.34
18	CURB / PCC	42679.79	1695127.87
19	CURB / PC	42678.67	1695123.79
20	CURB / PT	42674.32	1695121.49
21	CURB / PT	42662.08	1695124.05
22	CURB / PC	42655.15	1695127.41
23	CURB / PCC	42657.20	1695133.52
24	CURB / PCC	42698.78	1695111.77
25	CURB / PCC	42664.99	1695105.69
26	CURB / PT	42664.16	1695103.91
27	CURB / PC	42699.86	1695110.03
28	CULVERT	42724.56	1695112.67
29	CURB / PC	42592.58	1695170.60
30	CURB / PCC	42590.47	1695168.12
31	CURB / PCC	42557.19	1695162.96
32	CURB / PT	42555.06	1695164.20

Point Table

Point #	Description	Northing	Easting
33	CURB / PC	42554.43	1695166.54
34	CURB / PCC	42555.74	1695168.70
35	CURB / PCC	42590.09	1695174.12
36	CURB / PT	42592.38	1695172.33
37	CURB	42685.07	1695089.00
38	CURB / PC	42553.20	1695163.59
39	CURB / PCC	42552.14	1695161.74
40	CURB / PT	42527.11	1695153.68
41	CURB / PC	42517.73	1695152.01
42	CURB / PCC	42516.60	1695155.81
43	CURB / PCC	42550.63	1695167.46
44	CURB / PT	42552.46	1695166.40
45	CURB / PC	42672.32	1695121.54
46	CURB / PC	42683.02	1695106.12
47	CURB / PT	42692.62	1695110.10

Curve Table

Curve	Radius	Delta	Length	Tangent
C1	1.00	123.61	2.16	1.87
C2	1.00	159.32	2.78	5.48
C3	25.00	14.65	6.39	3.21
C4	25.00	42.28	18.45	9.67
C5	1.00	107.78	1.88	1.37
C6	5.00	59.01	5.15	2.83
C7	25.00	24.34	10.62	5.39
C8	3.25	165.25	9.37	25.12
C9	150.00	8.90	23.31	11.68
C10	2.25	88.59	3.48	2.20

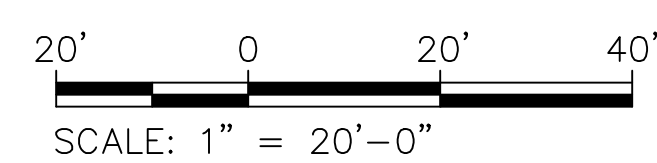
Curve Table

Curve	Radius	Delta	Length	Tangent
C11	2.24	93.00	3.64	2.37
C12	204.97	9.43	33.75	16.91
C13	1.75	88.03	2.69	1.69
C14	1.75	92.50	2.83	1.83
C15	268.24	7.41	34.68	17.36
C16	1.50	89.99	2.36	1.50
C17	1.50	90.45	2.37	1.51
C18	213.66	7.06	26.32	13.18
C19	2.00	167.08	5.83	17.67
C20	248.80	8.29	36.00	18.03

- 1 AC PAV'T SPEED HUMP, SEE DET (6) C-38
- 2 AC PAV'T COLD PLANING & RESURFACING, SEE DET (2) C-38
- 3 6" HIGH CONC. PEDESTAL FOR PARKING PAY STATION
- 4 INSTALL NEW DETECTABLE WARNING PANEL (SURFACE-APPLIED TYPE) ON EXIST. CONC. CURB RAMP, SEE DET. (1) C-40
- 5 INSTALL BOLLARD SEE DET (8) C-38
- 6 INSTALL NEW SURFACE-MOUNTED SIGN POST, SEE DET (4) C-42
- 7 INSTALL NEW POST FOR SIGNS, SEE DET (3) C-42
- 8 CONC. SIDEWALK, SEE DET (5) C-39
- 9 CONC. CURB, SEE DET (1) C-39
- 10 GRASSED AREA
- 11 CONC. DRIVEWAY REPAIR, SEE DET (7) C-39
- 12 A.C. PAVEMENT RECONSTRUCTION, SEE DET (3) C-38
- 13 SIDEWALK CULVERT W/ AUTOMATIC RETRACTABLE SCREEN, SEE DET (1) (2) C-46 C-46
- 14 INSTALL AUTOMATIC RETRACTABLE SCREEN ON EXIST. SIDEWALK CULVERT, SEE DET (1) C-46
- 15 6" DEEP CONC. PAD FOR DUMPSTER

SITE PLAN 02
SCALE: 1" = 20'-0"

NOTES:
 1. SEE STRIPING & SIGNAGE PLANS FOR PAVEMENT MARKING LAYOUT.
 2. LOCATION AND EXTENT OF SIDEWALK AND CURB REPAIRS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
 3. LOCATION AND EXTENT OF A.C. PAVEMENT RECONSTRUCTION SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER BEFORE PAVEMENT WORK COMMENCES.



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
SITE PLAN 02					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			DATE		
			C-10		

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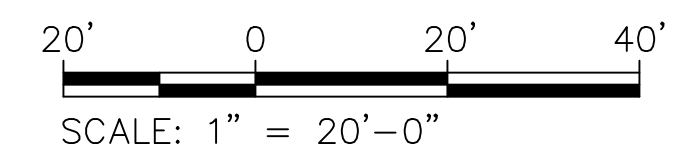
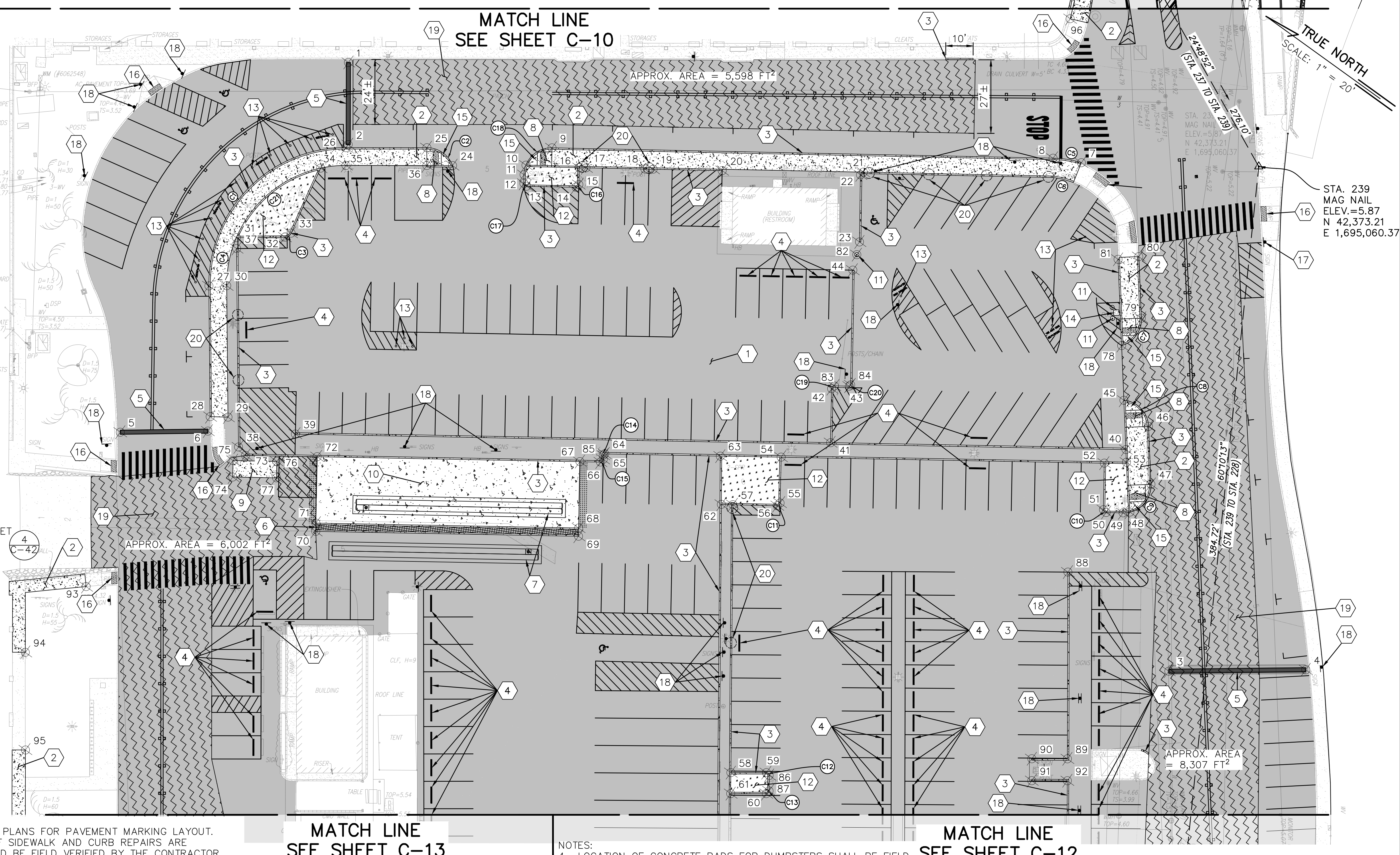
- 1 AC PAV'T COLD PLANING & RESURFACING, SEE DET C-38
- 2 CONC. SIDEWALK, SEE DET C-39
- 3 CONC. CURB, SEE DET C-39
- 4 6" PLASTIC WHEELSTOP, SEE DET C-39
- 5 AC PAV'T SPEED HUMP, SEE DET C-38
- 6 2' WIDE TRENCH DRAIN, SEE DET C-45
- 7 ADS STORMTECH SUBSURFACE INFILTRATION SYSTEM OR APPROVED EQUAL, SEE DET C-45
- 8 CONC. CURB RAMP
- 9 6" DEEP CONC. PAD FOR DUMPSTER
- 10 PORTLAND CEMENT CONC. PAVEMENT FOR BOAT WASH AREA, SEE DET C-38
- 11 INSTALL BOLLARD, SEE DET C-38
- 12 GRASSED AREA
- 13 INSTALL FLEXIBLE REFLECTIVE POSTS, SEE DET C-38
- 14 6" HIGH CONC. PEDESTAL FOR PARKING PAY STATION
- 15 INSTALL NEW DETECTABLE WARNING PANEL (WET-SET TYPE) ON NEW CONC. CURB RAMP, SEE DET. C-40
- 16 INSTALL NEW DETECTABLE WARNING PANEL (SURFACE-APPLIED TYPE) ON EXIST. CONC. CURB RAMP, SEE DET. C-40
- 17 INSTALL NEW SURFACE-MOUNTED SIGN POST, SEE DET C-42
- 18 INSTALL NEW SIGN POST, SEE DET C-42
- 19 A.C. PAVEMENT RECONSTRUCTION, SEE DET C-38
- 20 CURB CUT, SEE DET C-39

Curve	Radius	Delta	Length	Tangent
C12	1.00	90.39	1.58	1.01
C13	1.00	89.56	1.56	0.99
C16	1.00	89.99	1.57	1.00
C17	1.00	89.95	1.57	1.00
C18	10.00	90.06	15.72	10.01
C19	1.00	90.00	1.57	1.00
C20	1.00	90.19	1.57	1.00
C21	43.50	54.59	41.45	22.45
C1	50.00	90.62	79.08	50.55
C2	10.00	72.74	12.70	7.37
C3	2.50	65.00	2.84	1.59
C4	43.50	23.77	18.05	9.16
C15	1.00	90.00	1.57	1.00
C14	1.00	90.00	1.57	1.00
C11	1.00	90.00	1.57	1.00

Curve	Radius	Delta	Length	Tangent
C10	1.00	90.00	1.57	1.00
C8	10.00	81.86	14.29	8.67
C9	10.00	93.44	16.31	10.62
C7	10.00	76.01	13.27	7.81
C5	35.59	16.94	10.52	5.30
C6	29.50	15.23	7.84	3.94
C21	43.50	54.59	41.45	22.45

NOTES:
 1. SEE STRIPING & SIGNAGE PLANS FOR PAVEMENT MARKING LAYOUT.
 2. LOCATION AND EXTENT OF SIDEWALK AND CURB REPAIRS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
 3. LOCATION AND EXTENT OF A.C. PAVEMENT RECONSTRUCTION SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER BEFORE PAVEMENT WORK COMMENCES.

Point #	Description	Northing	Easting
1	BUMP	42665.10	1694896.64
2	BUMP	42647.62	1694872.26
3	BUMP	42292.05	1694928.45
4	BUMP	42251.81	1694921.38
5	BUMP	42653.70	1694738.40
6	BUMP	42627.99	1694757.46
7	CURB / PC	42426.58	1695023.58
8	CURB / PT	42435.93	1695018.85
9	RAMP	42586.56	1694914.85
10	RAMP	42590.57	1694904.18
11	CURB / PT	42589.10	1694900.93
12	CURB / PC	42587.29	1694898.33
13	CURB / PT	42585.90	1694898.07
14	CURB / PC	42571.04	1694908.34
15	CURB / PT	42570.78	1694909.73
16	CURB	42574.29	1694914.81
17	CURB	42572.23	1694916.23
18	CURB	42554.54	1694928.45
19	CURB	42552.07	1694930.15
20	CURB	42531.29	1694944.50
21	CURB / PC	42489.17	1694974.19
22	CURB / PT	42489.42	1694972.80
23	CURB	42475.39	1694952.70
24	RAMP	42612.24	1694888.36
25	RAMP	42623.64	1694888.16
26	CURB / PC	42647.64	1694870.90
27	CURB / PT	42658.70	1694800.67
28	CURB	42630.39	1694762.22
29	SDWK	42625.02	1694765.88
30	SDWK / PC	42653.47	1694804.52
31	CURB	42660.89	1694820.83
32	CURB / PC	42646.59	1694831.36
33	CURB / PT	42645.63	1694833.86
34	CURB	42650.76	1694859.42
35	SDWK / PT	42643.84	1694865.62
36	CURB	42619.85	1694882.89
37	CURB	42355.59	1694939.53
38	CURB	42615.52	1694759.30
39	CURB	42601.43	1694775.28
40	CURB	42352.10	1694948.17
41	CURB	42441.06	1694887.09
42	CURB / PC	42452.30	1694903.30
43	CURB / PC	42447.58	1694907.80
44	CURB	42471.33	1694942.92
45	RAMP	42363.23	1694962.32
46	RAMP	42350.36	1694959.85
47	RAMP	42337.29	1694943.22
48	RAMP	42337.58	1694930.51
49	CURB / PT	42339.45	1694928.82
50	CURB / PC	42344.51	1694925.31
51	CURB / PT	42345.91	1694925.56
52	CURB	42355.59	1694939.53
53	CURB	42349.25	1694944.54
54	CURB	42452.63	1694872.24
55	CURB / PC	42443.13	1694858.44
56	CURB / PT	42443.39	1694857.05
57	CURB	42456.76	1694847.85
58	CURB	42400.13	1694768.08
59	CURB / PC	42389.59	1694775.67
60	CURB / PT	42385.14	1694769.44
61	CURB	42395.69	1694761.83
62	CURB	42460.24	1694845.49
63	CURB	42470.85	1694859.53
64	CURB / PC	42505.59	1694835.52
65	CURB / PC	42504.86	1694833.59
66	CURB / PT	42505.11	1694832.20
67	PAD	42511.27	1694827.92
68	DRAIN	42497.45	1694808.00
69	DRAIN	42495.75	1694805.53
70	DRAIN	42574.63	1694750.83
71	DRAIN	42576.34	1694753.29
72	PAD	42590.16	1694773.22
73	CURB	42611.68	1694758.30
74	PAD	42610.82	1694749.18
75	PAD	42614.24	1694754.11
76	PAD	42601.09	1694763.22
77	PAD	42597.67	1694758.29
78	RAMP	42375.59	1694978.05
79	RAMP	42375.63	1694990.36
80	CURB	42389.52	1695008.04
81	CURB	42395.06	1695002.81
82	BOLLARD	42473.44	1694948.37
83	CURB / PT	42452.05	1694904.70
84	CURB / PT	42447.45	1694908.49
85	CURB / PT	42505.71	1694834.82
86	CURB / PT	42388.19	1694775.44
87	CURB / PC	42384.91	1694770.83
88	CURB	42343.11	1694899.48
89	CURB	42303.37	1694844.08
90	CURB	42313.93	1694836.51
91	CURB	42309.27	1694830.01
92	CURB	42298.71	1694837.58
93	SDWK	42630.84	1694685.40
94	SDWK	42634.81	1694652.93
95	SDWK	42613.92	1694624.05
96	SDWK	42460.67	1695063.84

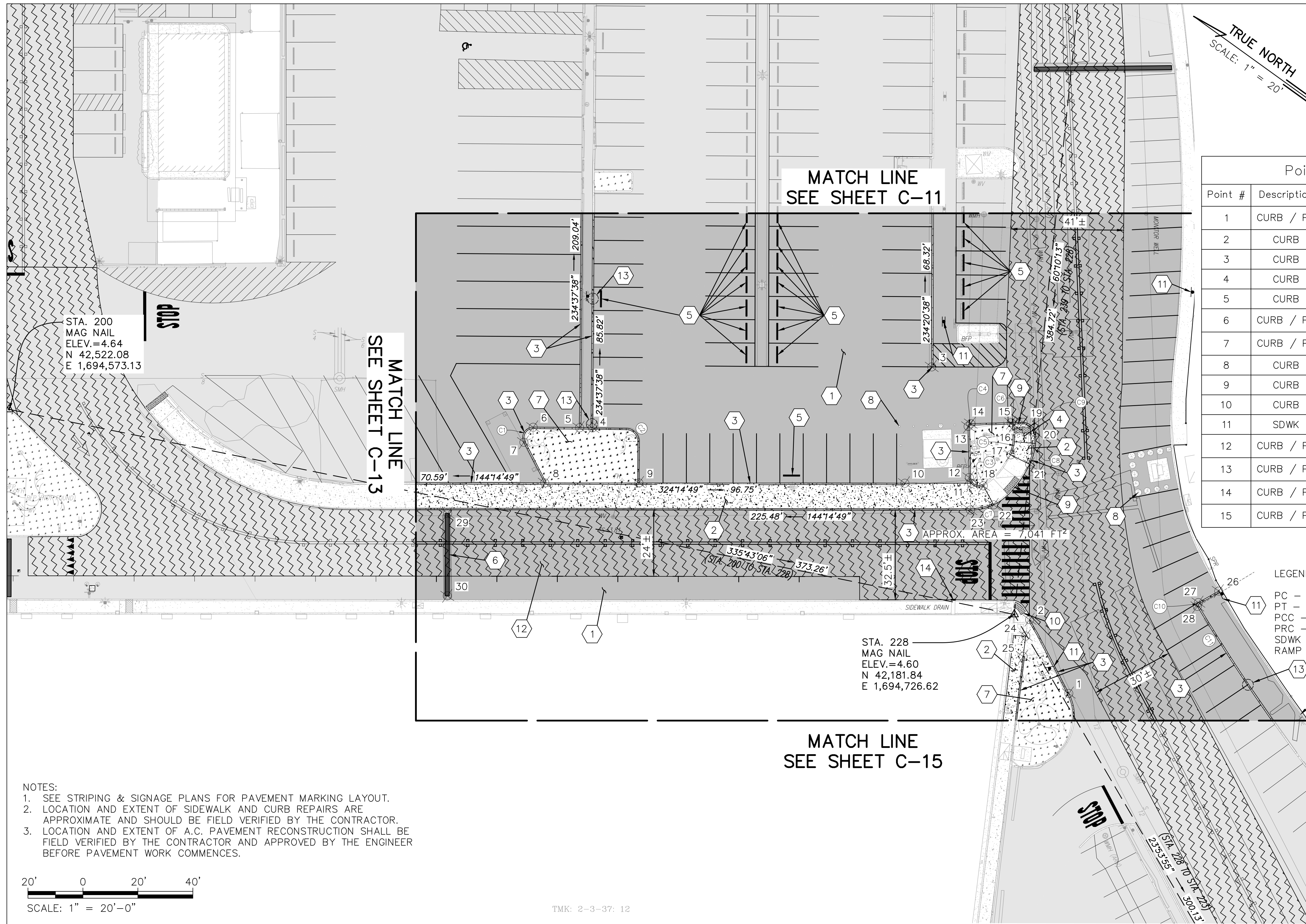


LEGEND:
 PC - POINT OF CURVATURE
 PT - POINT OF TANGENCY
 PCC - POINT OF COMPOUND CURVE
 PRC - POINT OF REVERSE CURVE
 GAW - GRADE ADJUSTMENT WALL
 SDWK - SIDEWALK
 RAMP - CURB RAMP
 DRAIN - TRENCH DRAIN

SITE PLAN 03
 SCALE: 1" = 20'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
SITE PLAN 03					
DESIGNED: KJM	SUBMITTED:				
DRAWN: AHC	DATE: MAY 2026				
CHECKED: SAK	SCALE: AS NOTED				
APPROVED:	DRAWING NO.				
CHIEF ENGINEER	DATE		C-11		

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 Plotted on: 5/7/2026
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Point Table

Point #	Description	Northing	Easting
1	CURB / PC	42148.93	1694714.91
2	CURB	42176.20	1694728.33
3	CURB	42258.88	1694782.07
4	CURB	42346.01	1694691.85
5	CURB	42349.85	1694689.14
6	CURB / PC	42363.65	1694679.42
7	CURB / PT	42363.19	1694673.02
8	CURB	42348.38	1694665.48
9	CURB	42320.57	1694685.50
10	CURB	42242.05	1694742.03
11	SDWK	42222.39	1694756.19
12	CURB / PT	42224.25	1694757.45
13	CURB / PC	42235.47	1694772.25
14	CURB / PT	42235.28	1694773.65
15	CURB / PC	42223.58	1694782.53

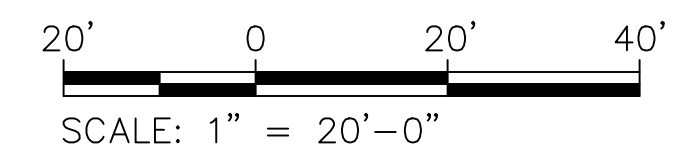
Point Table

Point #	Description	Northing	Easting
16	CURB / PT	42222.19	1694782.35
17	CURB	42216.88	1694772.94
18	CURB	42218.35	1694757.95
19	RAMP / PC	42220.10	1694785.16
20	CURB / PCC	42214.29	1694784.77
21	CURB	42209.25	1694774.17
22	CURB	42211.27	1694754.54
23	CURB / PT	42216.99	1694748.06
24	SDWK	42173.86	1694722.69
25	CURB	42170.25	1694716.09
26	CURB	42126.47	1694777.02
27	CURB / PC	42130.03	1694769.30
28	CURB / PT	42129.52	1694767.97
29	BUMP	42370.55	1694635.79
30	BUMP	42353.11	1694611.38

Curve Table

Curve	Radius	Delta	Length	Tangent
C1	3.75	117.85	7.71	6.22
C4	1.00	90.00	1.57	1.00
C6	1.00	88.99	1.55	0.98
C5	13.57	31.82	7.54	3.87
C3	3.50	115.41	7.05	5.54
C7	19.50	25.60	8.71	4.43
C9	5.00	71.17	6.21	3.58
C8	21.22	32.11	11.89	6.11
C10	1.00	91.70	1.60	1.03
C11	700.50	11.88	145.20	72.86

- NOTES:
- SEE STRIPING & SIGNAGE PLANS FOR PAVEMENT MARKING LAYOUT.
 - LOCATION AND EXTENT OF SIDEWALK AND CURB REPAIRS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
 - LOCATION AND EXTENT OF A.C. PAVEMENT RECONSTRUCTION SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER BEFORE PAVEMENT WORK COMMENCES.



TMK: 2-3-37: 12

- | | | |
|---|--|---|
| ① AC PAV'T COLD PLANING & RESURFACING, SEE DET C-38 | ⑧ PAINT EXISTING BOLLARDS (TYP.) | ⑭ INSTALL AUTOMATIC RETRACTABLE SCREEN ON EXIST. SIDEWALK CULVERT, SEE DET C-46 |
| ② CONC. SIDEWALK, SEE DET C-39 | ⑨ INSTALL NEW DETECTABLE WARNING PANEL (WET-SET TYPE) ON NEW CONC. CURB RAMP, SEE DET. C-40 | |
| ③ CONC. CURB, SEE DET C-39 | ⑩ INSTALL NEW DETECTABLE WARNING PANEL (SURFACE-APPLIED TYPE) ON EXIST. CONC. CURB RAMP, SEE DET. C-40 | |
| ④ CONC. CURB RAMP | ⑪ INSTALL NEW SIGN POST, SEE DET C-42 | |
| ⑤ 6" PLASTIC WHEELSTOP, SEE DET C-38 | ⑫ A.C. PAVEMENT RECONSTRUCTION, SEE DET C-38 | |
| ⑥ AC PAV'T SPEED HUMP, SEE DET C-38 | ⑬ CURB CUT, SEE DET C-38 | |
| ⑦ GRASSED AREA | | |

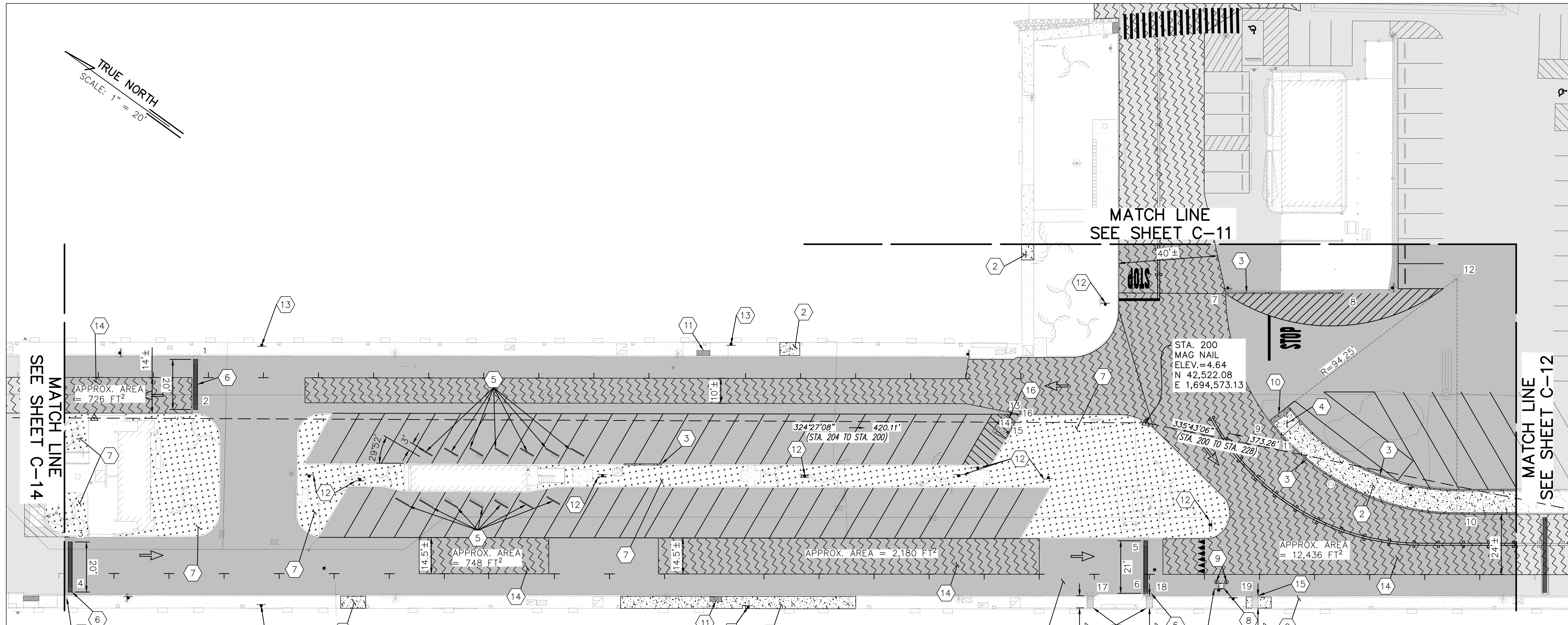
SITE PLAN 04
SCALE: 1" = 20'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII SITE PLAN 04					
			DESIGNED: KJM DRAWN: AHC CHECKED: SAK APPROVED: _____ CHIEF ENGINEER		
SUBMITTED: _____ DATE: MAY 2026 SCALE: AS NOTED OBSERVATION LICENSE EXPIRES 4/30/28			DATE: _____ C-12		

Last Save by: KJM
 Last Saved: 5/7/2026
 Plotted on: 5/7/2026
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TRUE NORTH
SCALE: 1" = 20'

JOB NO. B71C075A ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS



LEGEND:

- PC - POINT OF CURVATURE
- PT - POINT OF TANGENCY
- PCC - POINT OF COMPOUND CURVE
- PRC - POINT OF REVERSE CURVE
- GAW - GRADE ADJUSTMENT WALL
- SDWK - SIDEWALK
- RAMP - CURB RAMP
- RAD - RADIUS CENTERPOINT
- CULVERT - NEW SIDEWALK CULVERT

NOTES:

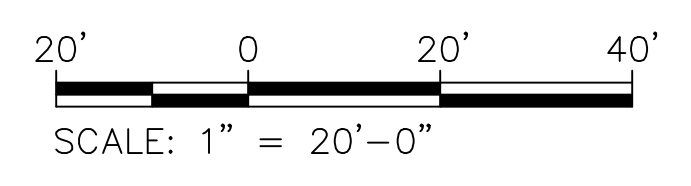
1. SEE STRIPING & SIGNAGE PLANS FOR PAVEMENT MARKING LAYOUT.
2. LOCATION AND EXTENT OF SIDEWALK AND CURB REPAIRS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
3. LOCATION AND EXTENT OF A.C. PAVEMENT RECONSTRUCTION SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER BEFORE PAVEMENT WORK COMMENCES.
4. LOCATION OF CONCRETE PADS FOR DUMPSTERS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER BEFORE PAVEMENT WORK COMMENCES.

- 1 AC PAV'T COLD PLANING & RESURFACING, SEE DET C-38
- 2 CONC. SIDEWALK, SEE DET C-39
- 3 CONC. CURB, SEE DET C-39
- 4 CONC. CURB RAMP
- 5 6" PLASTIC WHEELSTOP, SEE DET C-39
- 6 AC PAV'T SPEED HUMP, SEE DET C-38
- 7 GRASSED AREA
- 8 6" HIGH CONC. PEDESTAL FOR PARKING PAY STATION
- 9 INSTALL BOLLARD SEE DET C-38
- 10 INSTALL NEW DETECTABLE WARNING PANEL (WET-SET TYPE) ON NEW CONC. CURB RAMP, SEE DET. C-40
- 11 INSTALL NEW DETECTABLE WARNING PANEL (SURFACE-APPLIED TYPE) ON EXIST. CONC. CURB RAMP, SEE DET. C-40
- 12 INSTALL NEW SIGN POST, SEE DET C-42

Point Table			
Point #	Description	Northing	Easting
1	BUMP	42844.76	1694371.57
2	BUMP	42833.06	1694355.36
3	BUMP	42842.70	1694283.13
4	BUMP	42831.00	1694266.91
5	BUMP	42494.50	1694534.89
6	BUMP	42482.24	1694517.84
7	CURB	42526.39	1694633.66
8	CURB	42489.11	1694660.60
9	RAMP	42482.51	1694602.65
10	CURB	42399.97	1694616.32

Point Table			
Point #	Description	Northing	Easting
11	RAMP	42474.76	1694600.64
12	RAD	42455.04	1694692.81
13	PAD	42570.44	1694542.46
14	PAD	42569.64	1694534.50
15	PAD	42563.67	1694535.10
16	PAD	42564.55	1694543.05
17	CULVERT	42499.66	1694504.11
18	CULVERT	42480.48	1694518.05
19	CULVERT	42446.23	1694542.69

Curve Table				
Curve	Radius	Delta	Length	Tangent
C1	94.25	52.70	86.68	46.68

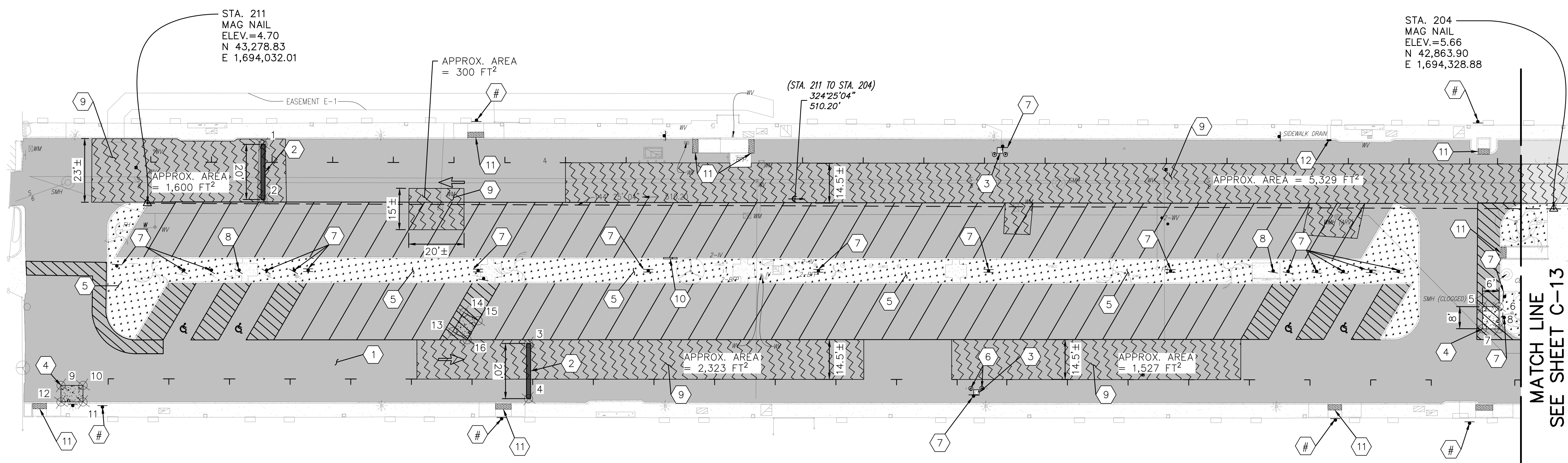


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SITE PLAN 05
SCALE: 1" = 20'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII SITE PLAN 05					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			DATE		
			C-13		

TRUE NORTH
SCALE: 1" = 20'



MATCH LINE
SEE SHEET C-13

LEGEND:

PC - POINT OF CURVATURE
PT - POINT OF TANGENCY
PCC - POINT OF COMPOUND CURVE
PRC - POINT OF REVERSE CURVE

NOTE: SEE STRIPING & SIGNAGE PLANS FOR PAVEMENT MARKING LAYOUT.

- ① AC PAV'T COLD PLANING & RESURFACING, SEE DET C-38
- ② AC PAV'T SPEED HUMP, SEE DET C-38
- ③ 6" HIGH CONC. PEDESTAL FOR PARKING PAY STATION
- ④ 6" DEEP CONC. PAD FOR DUMPSTER
- ⑤ GRASSED AREA
- ⑥ INSTALL BOLLARD SEE DET C-38
- ⑦ INSTALL NEW SIGN POST, SEE DET C-42

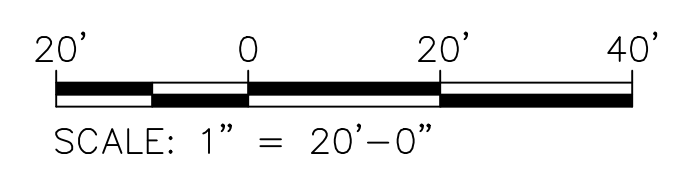
Point #	Description	Northing	Easting
1	BUMP	43257.32	1694073.88
2	BUMP	43245.62	1694057.66
3	BUMP	43136.95	1694071.68
4	BUMP	43125.24	1694055.46
5	PAD	42864.06	1694284.98
6	PAD	42859.17	1694288.46
7	PAD	42859.41	1694278.46
8	PAD	42854.53	1694281.95

Point #	Description	Northing	Easting
9	PAD	43265.63	1693960.11
10	PAD	43259.13	1693964.78
11	PAD	43255.63	1693959.91
12	PAD	43262.12	1693955.24
13	PAD	43161.77	1694059.12
14	PAD	43162.57	1694067.08
15	PAD	43156.60	1694067.68
16	PAD	43155.80	1694059.72

- ⑧ INSTALL NEW SURFACE-MOUNTED SIGN POST, SEE DET C-42
- ⑨ A.C. PAVEMENT RECONSTRUCTION, SEE DET C-38
- ⑩ CONC. CURB, SEE DET C-39
- ⑪ INSTALL NEW DETECTABLE WARNING PANEL (SURFACE-APPLIED TYPE) ON EXIST. CONC. CURB RAMP, SEE DET C-40
- ⑫ INSTALL AUTOMATIC RETRACTABLE SCREEN ON EXIST. SIDEWALK CULVERT, SEE DET C-46

NOTES:

- SEE STRIPING & SIGNAGE PLANS FOR PAVEMENT MARKING LAYOUT.
- LOCATION AND EXTENT OF SIDEWALK AND CURB REPAIRS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
- LOCATION AND EXTENT OF A.C. PAVEMENT RECONSTRUCTION SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER BEFORE PAVEMENT WORK COMMENCES.
- LOCATION OF CONCRETE PADS FOR DUMPSTERS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER BEFORE PAVEMENT WORK COMMENCES.



SITE PLAN 06
SCALE: 1" = 20'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII SITE PLAN 06					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			DATE		
			C-14		

MATCH LINE
SEE SHEET C-12

TRUE NORTH
SCALE: 1" = 20'

Point #	Description	Northing	Easting
76	GAW	42109.75	1694606.89
77	GAW	42095.90	1694581.22
78	GAW	42091.07	1694572.46
79	GAW	42065.71	1694526.61
80	GAW	42064.62	1694526.30
81	GAW	42057.60	1694513.61
82	CURB	42055.42	1694514.82
83	CURB	42073.93	1694548.29
84	CURB	42074.90	1694550.04
85	CURB	42090.39	1694578.04
86	CURB	42091.35	1694579.79
87	CURB	42111.80	1694616.76
90	PAD	41636.35	1694777.25
91	PAD	41630.20	1694766.95
92	PAD	41631.20	1694780.33
93	PAD	41625.05	1694770.02
94	CURB/HEADER	41660.12	1694852.50
95	HEADER	41603.41	1694754.41

Point #	Description	Northing	Easting
1	BUMP	41978.67	1694631.12
2	BUMP	41961.30	1694673.71
3	BUMP	41931.90	1694683.36
4	BUMP	41934.26	1694704.22
6	BUMP	41851.90	1694738.53
7	BUMP	41721.92	1694738.01
8	BUMP	41707.83	1694719.83
9	BOLLARD	42048.91	1694511.71
10	BOLLARD	42045.74	1694507.33
11	BOLLARD	42042.56	1694502.96
12	BOLLARD	42038.12	1694506.19
13	BOLLARD	42033.68	1694509.42
14	HEADER	41871.36	1694535.18
15	HEADER / PC	41869.09	1694567.11

Point #	Description	Northing	Easting
16	HEADER / PT	41864.90	1694574.55
17	HEADER	41860.90	1694577.39
18	HEADER	41831.31	1694598.40
19	HEADER	41832.09	1694599.51
20	HEADER	41735.16	1694877.66
21	HEADER / PC	41729.47	1694886.17
22	HEADER / PT	41678.77	1694884.84
23	HEADER	41676.04	1694880.26
24	CURB	42103.05	1694686.83
25	CURB	41981.81	1694626.32
26	CURB / PC	41989.81	1694610.28
27	CURB / PT	41989.58	1694609.60
28	CURB	41968.34	1694599.74
29	CURB / PC	42001.33	1694528.72
30	CURB / PT	42001.64	1694528.33

Point #	Description	Northing	Easting
31	CURB	42027.17	1694509.80
32	CURB / PT	41963.47	1694676.83
33	CURB / PC	41930.86	1694660.52
34	CURB / PT	41923.96	1694663.19
35	CURB / PC	41916.99	1694681.18
36	CURB / PRC	41919.19	1694683.87
37	CURB / PRC	41962.55	1694680.61
38	CURB / PRC	41929.13	1694570.37
39	CURB / PT	41957.67	1694525.57
40	CURB / PC	41978.72	1694510.36
41	CURB / PT	41979.14	1694509.53
42	CURB / PC	41978.92	1694494.60
43	CURB / PT	41971.00	1694490.62
44	CURB / PC	41967.72	1694492.98
45	CURB / PT	41957.90	1694502.34

Point #	Description	Northing	Easting
46	CURB / PC	41944.71	1694518.87
47	CURB / PT	41934.85	1694528.25
48	CURB / PC	41907.17	1694548.20
49	CURB	41905.82	1694563.26
50	CURB	41902.59	1694566.39
51	CURB	41914.40	1694578.62
52	CURB	41917.80	1694575.33
53	DRAIN	42008.61	1694648.09
54	PAVT	41732.56	1694670.30
55	PAVT	41610.12	1694764.53
56	PAVT	41641.69	1694816.95
57	PAVT	41951.61	1694584.38
58	PAVT	41971.24	1694593.49
59	SDWK	42023.99	1694505.42
60	CURB	41735.71	1694674.19

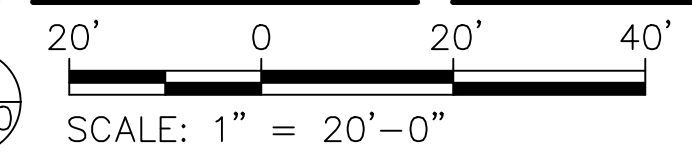
Point #	Description	Northing	Easting
61	CURB	41729.60	1694867.67
62	CURB	41775.84	1694816.00
63	CURB	41768.72	1694808.32
64	CURB	41774.61	1694802.86
65	CURB	41781.73	1694810.54
66	CURB	41787.89	1694804.70
67	CURB	41794.70	1694798.46
68	CURB	41855.18	1694751.57
69	CURB	41849.79	1694742.51
70	CURB	41856.69	1694738.40
71	CURB	41862.08	1694747.45
72	CURB / PCC	41991.04	1694725.18
73	CURB	42148.33	1694682.22
74	CURB	42150.43	1694681.06
75	GAW	42114.50	1694615.71

MATCH LINE
SEE SHEET C-16



LIMITS OF WORK

LEGEND:
PC - POINT OF CURVATURE
PT - POINT OF TANGENCY
PCC - POINT OF COMPOUND CURVE
PRC - POINT OF REVERSE CURVE
GAW - GRADE ADJUSTMENT WALL



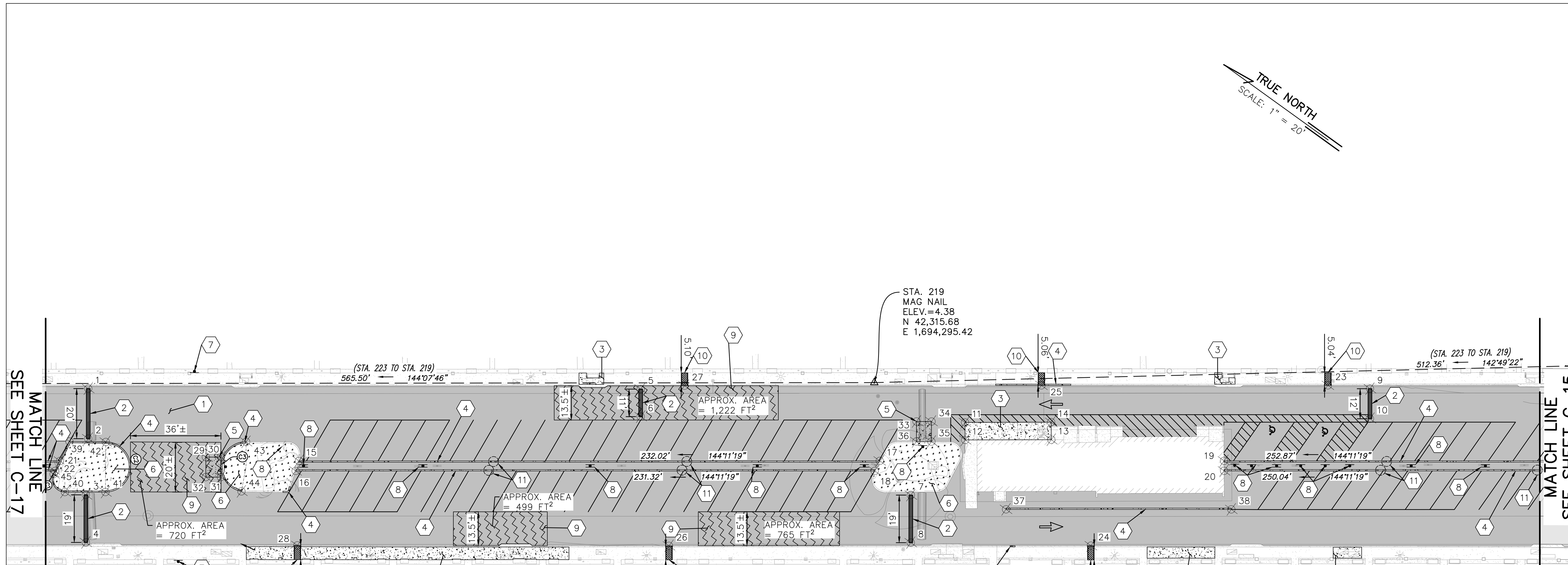
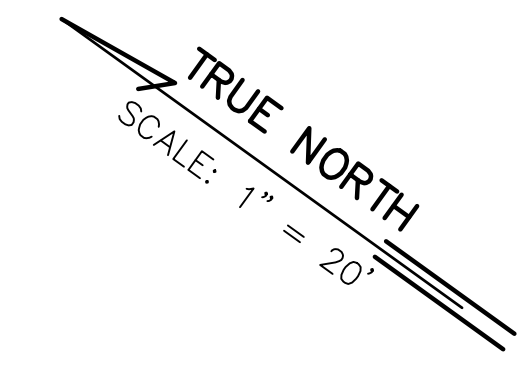
- ① AC PAV'T COLD PLANING & RESURFACING, SEE DET C-38
- ② CONC. SIDEWALK, SEE DET C-39
- ③ CONC. CURB, SEE DET C-39
- ④ CONC. GRADE ADJUSTMENT WALL, SEE DET C-39
- ⑤ 6" PLASTIC WHEELSTOP, SEE DET C-39
- ⑥ NEW PLASTIC SAND/WATER FILLED JERSEY BARRIER
- ⑦ AC PAV'T SPEED HUMP, SEE DET C-38
- ⑧ INSTALL BOLLARD, SEE DET C-38
- ⑨ 6" DEEP CONC. PAD FOR DUMPSTER
- ⑩ GRASSED AREA
- ⑪ 12" WIDE CONC. HEADER, SEE DET C-38
- ⑫ INSTALL AUTOMATIC RETRACTABLE SCREEN ON EXIST. SIDEWALK CULVERT, SEE DET C-46
- ⑬ 6" WIDE CONC. HEADER, SEE DET C-38
- ⑭ SEEPAGE PIT WITH GRATE OPENING, SEE DET C-45
- ⑮ INSTALL NEW SURFACE-MOUNTED SIGN POST, SEE DET C-42
- ⑯ INSTALL NEW SIGN POST, SEE DET C-42
- ⑰ A.C. PAVEMENT RECONSTRUCTION, SEE DET C-38
- ⑱ CURB CUT, SEE DET C-39

- NOTES:
- SEE STRIPING & SIGNAGE PLANS FOR PAVEMENT MARKING LAYOUT.
 - LOCATION AND EXTENT OF SIDEWALK AND CURB REPAIRS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
 - LOCATION AND EXTENT OF A.C. PAVEMENT RECONSTRUCTION SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER BEFORE PAVEMENT WORK COMMENCES.
 - LOCATION OF CONCRETE PADS FOR DUMPSTERS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER BEFORE PAVEMENT WORK COMMENCES.
- SITE PLAN 07**
SCALE: 1" = 20'-0"

Curve Table					Curve Table				
Curve	Radius	Delta	Length	Tangent	Curve	Radius	Delta	Length	Tangent
C1	18.50	124.22	40.11	34.96	C13	5.00	95.40	8.33	5.50
C2	700.50	11.88	145.20	72.86	C14	72.00	43.29	54.40	28.57
C3	200.50	38.10	133.31	69.23	C15	1.00	54.98	0.96	0.52
C4	1.00	90.00	1.57	1.00	C16	5.00	124.98	10.91	9.60
C5	1.00	90.00	1.57	1.00	C17	50.00	15.60	13.62	6.85
C6	520.50	10.38	94.32	47.29	C18	50.00	15.64	13.65	6.87
C7	1.00	90.00	1.57	1.00	C19	10.00	98.25	17.15	11.55
C8	1.00	90.00	1.57	1.00	C20	7.50	125.12	16.38	14.45
C9	300.50	13.25	69.49	34.90	C21	2.00	154.29	5.39	8.76
C10	30.00	115.41	60.43	47.47	C22	242.08	10.31	43.54	21.83
C11	10.00	50.56	8.82	4.72					
C12	2.00	120.61	4.21	3.51					

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
<p>STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION</p> <p>ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII</p> <p>SITE PLAN 07</p>					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			DATE		

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. LICENSE EXPIRES 4/30/28



- ① AC PAV'T COLD PLANING & RESURFACING, SEE DET C-38
- ② AC PAV'T SPEED HUMP, SEE DET C-38
- ③ CONC. SIDEWALK, SEE DET C-39
- ④ CONC. CURB, SEE DET C-39
- ⑤ 6" DEEP CONC. PAD FOR DUMPSTER
- ⑥ GRASSED AREA
- ⑦ INSTALL NEW SURFACE-MOUNTED SIGN POST, SEE DET C-42
- ⑧ INSTALL NEW SIGN POST, SEE DET C-42
- ⑨ A.C. PAVEMENT RECONSTRUCTION, SEE DET C-38
- ⑩ SIDEWALK CULVERT W/ AUTOMATIC RETRACTABLE SCREEN, SEE DET C-46 C-46
- ⑪ CURB CUT, SEE DET C-39

Point Table			
Point #	Description	Northing	Easting
1	BUMP	42568.95	1694109.75
2	BUMP	42557.25	1694093.53
3	BUMP	42544.87	1694074.76
4	BUMP	42533.77	1694059.35
5	BUMP	42389.85	1694238.72
6	BUMP	42383.40	1694229.80
7	BUMP	42277.52	1694267.51
8	BUMP	42266.42	1694252.09
9	BUMP	42153.64	1694409.31
10	BUMP	42146.61	1694399.58
11	SDWK	42276.94	1694303.72
12	SDWK	42272.82	1694298.09
13	SDWK	42244.97	1694318.29
14	SDWK	42249.11	1694323.94
15	CURB	42483.76	1694135.57
16	CURB	42482.51	1694131.55
17	CURB	42295.60	1694271.33
18	CURB	42294.92	1694266.90
19	CURB	42184.06	1694351.82
20	CURB	42181.70	1694348.59

Point Table			
Point #	Description	Northing	Easting
21	CURB	42561.20	1694079.70
22	CURB	42560.44	1694075.32
23	CULVERT	42168.06	1694400.57
24	CULVERT	42207.37	1694293.21
25	CULVERT	42260.86	1694333.59
26	CULVERT	42344.02	1694194.55
27	CULVERT	42376.44	1694250.09
28	CULVERT	42464.54	1694107.82
29	PAD	42514.85	1694115.04
30	PAD	42509.99	1694118.55
31	PAD	42505.30	1694112.06
32	PAD	42510.17	1694108.55
33	PAD	42292.91	1694292.70
34	PAD	42288.02	1694296.18
35	PAD	42283.38	1694289.67
36	PAD	42288.26	1694286.18
37	CURB	42243.35	1694285.16
38	CURB	42170.34	1694337.79
39	CURB	42562.68	1694088.21
40	CURB / PT	42552.35	1694070.76

Point Table			
Point #	Description	Northing	Easting
41	CURB / PC	42539.19	1694080.25
42	CURB / PT	42550.78	1694096.55
43	CURB / PC	42505.40	1694129.40
44	CURB / PT	42495.30	1694112.24
45	CURB / PC	42560.20	1694073.95

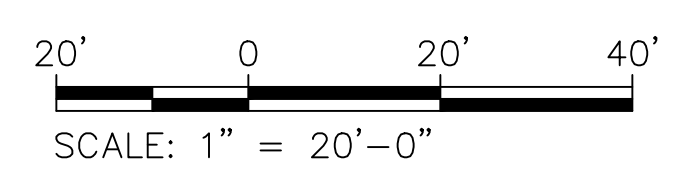
Curve Table				
Curve	Radius	Delta	Length	Tangent
C1	5.00	115.94	10.12	7.99
C2	10.00	179.22	31.28	1473.60
C3	10.00	169.32	29.55	107.03

- LEGEND:
- PC - POINT OF CURVATURE
 - PT - POINT OF TANGENCY
 - PCC - POINT OF COMPOUND CURVE
 - PRC - POINT OF REVERSE CURVE
 - SDWK - SIDEWALK
 - CULVERT - NEW SIDEWALK CULVERT

- NOTES:
1. SEE STRIPING & SIGNAGE PLANS FOR PAVEMENT MARKING LAYOUT.
 2. LOCATION AND EXTENT OF SIDEWALK AND CURB REPAIRS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
 3. LOCATION AND EXTENT OF A.C. PAVEMENT RECONSTRUCTION SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER BEFORE PAVEMENT WORK COMMENCES.
 4. LOCATION OF CONCRETE PADS FOR DUMPSTERS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER BEFORE PAVEMENT WORK COMMENCES.

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SITE PLAN 08
SCALE: 1" = 20'-0"

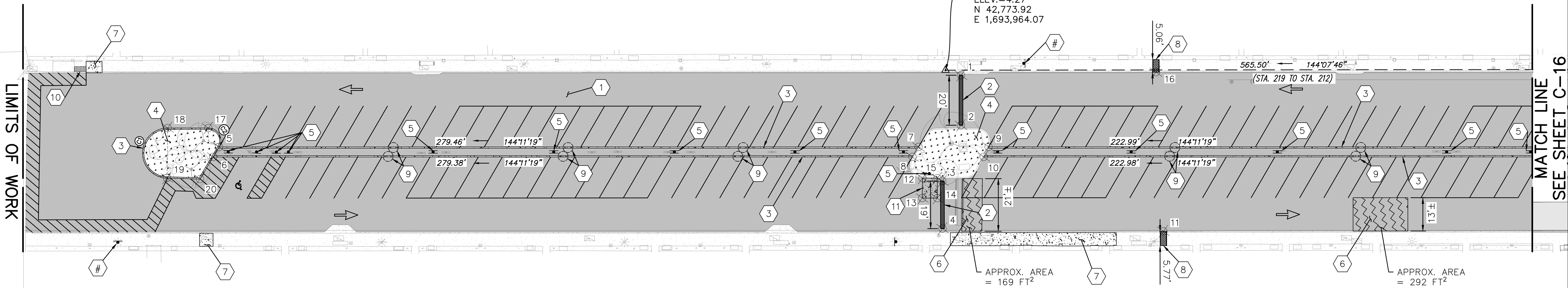
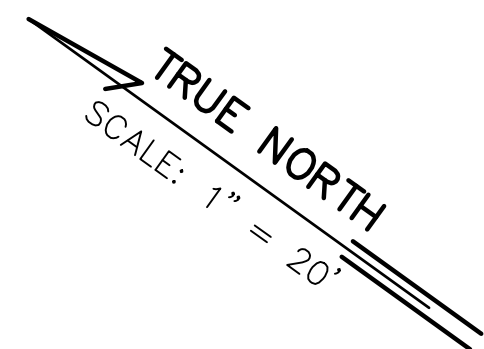


REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII SITE PLAN 08					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			C-16		

Curve Table				
Curve	Radius	Delta	Length	Tangent
C1	10.00	178.37	31.13	703.02
C2	5.00	120.65	10.53	8.78

Point Table			
Point #	Description	Northing	Easting
1	BUMP	42767.74	1693966.04
2	BUMP	42756.02	1693949.83
3	BUMP	42749.01	1693927.33
4	BUMP	42737.83	1693911.97
5	CURB	42991.34	1693769.35
6	CURB	42990.92	1693764.71
7	CURB	42764.71	1693932.86
8	CURB	42764.36	1693928.18
9	CURB	42742.03	1693949.23
10	CURB	42741.26	1693944.85

Point Table			
Point #	Description	Northing	Easting
11	CULVERT	42665.62	1693962.72
12	PAD	42756.16	1693923.69
13	PAD	42751.55	1693917.15
14	PAD	42746.65	1693920.61
15	PAD	42751.26	1693927.15
16	CULVERT	42705.29	1694012.61
17	CURB / PT	42999.24	1693772.97
18	CURB / PC	43012.42	1693763.47
19	CURB / PT	43000.95	1693747.09
20	CURB	42990.00	1693754.48

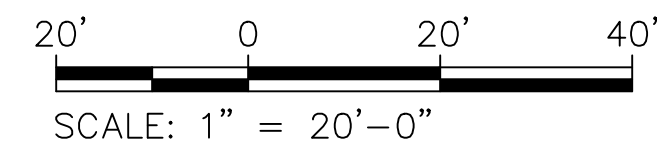


LEGEND:
 PC - POINT OF CURVATURE
 PT - POINT OF TANGENCY
 PCC - POINT OF COMPOUND CURVE
 PRC - POINT OF REVERSE CURVE
 CULVERT - NEW SIDEWALK CULVERT

NOTES:
 1. SEE STRIPING & SIGNAGE PLANS FOR PAVEMENT MARKING LAYOUT.
 2. LOCATION AND EXTENT OF SIDEWALK AND CURB REPAIRS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
 3. LOCATION AND EXTENT OF A.C. PAVEMENT RECONSTRUCTION SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER BEFORE PAVEMENT WORK COMMENCES.
 4. LOCATION OF CONCRETE PADS FOR DUMPSTERS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER BEFORE PAVEMENT WORK COMMENCES.

- ① AC PAV'T COLD PLANING & RESURFACING, SEE DET C-38
- ② AC PAV'T SPEED HUMP, SEE DET C-38
- ③ CONC. CURB, SEE DET C-39
- ④ GRASSED AREA
- ⑤ INSTALL NEW SIGN POST, SEE DET C-42
- ⑥ A.C. PAVEMENT RECONSTRUCTION, SEE DET C-38
- ⑦ CONC. SIDEWALK, SEE DET C-39
- ⑧ SIDEWALK CULVERT W/ AUTOMATIC RETRACTABLE SCREEN, SEE DET C-46 C-46
- ⑨ CURB CUT, SEE DET C-39
- ⑩ INSTALL NEW DETECTABLE WARNING PANEL (SURFACE-APPLIED TYPE) ON EXIST. CONC. CURB RAMP, SEE DET. C-40
- ⑪ 6" DEEP CONC. PAD FOR DUMPSTER

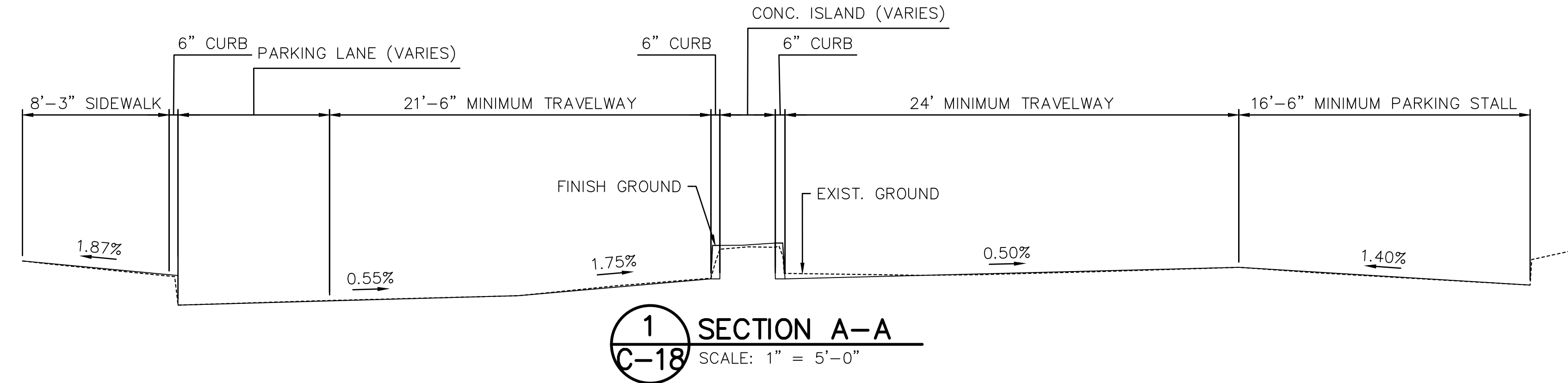
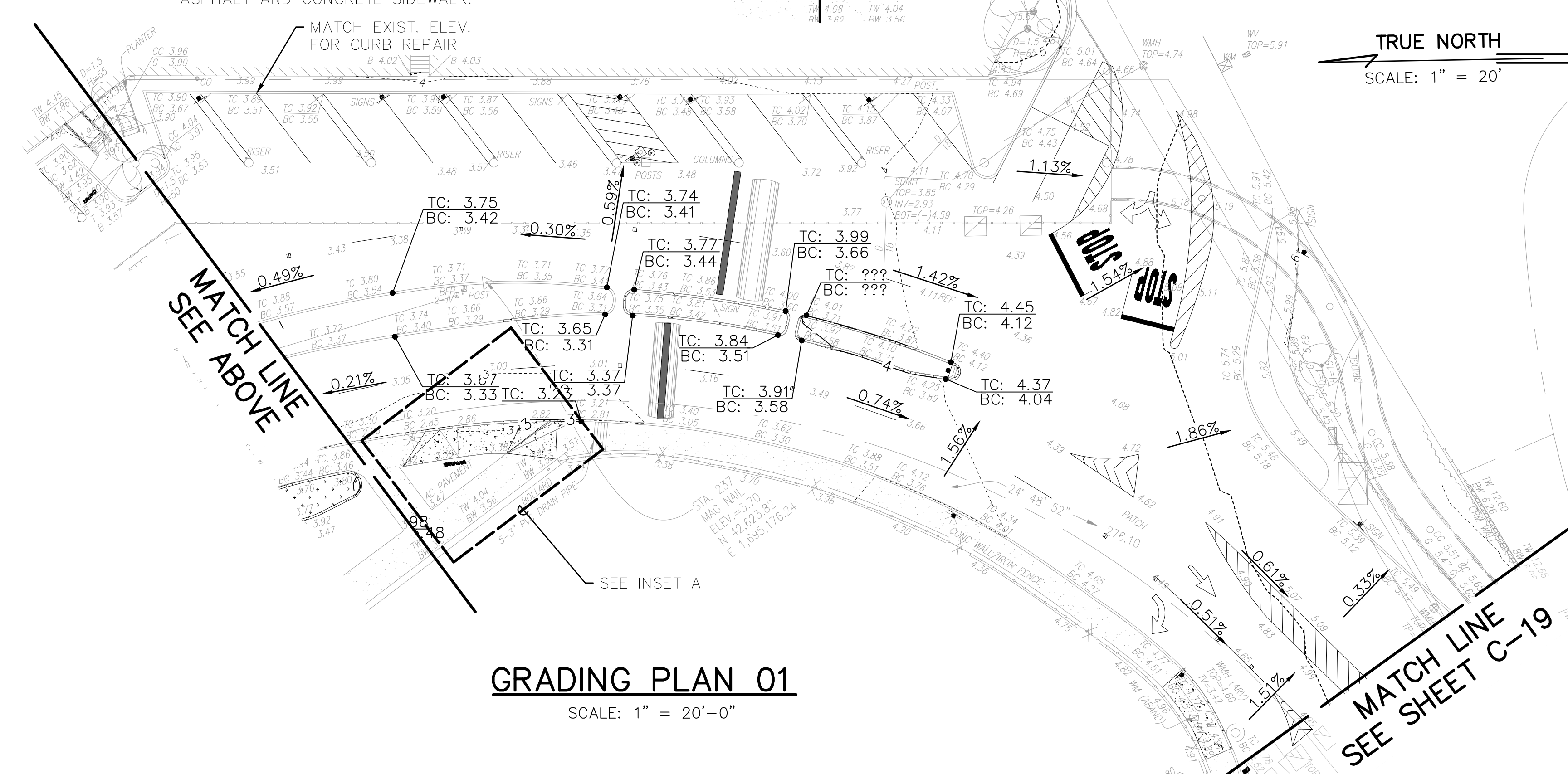
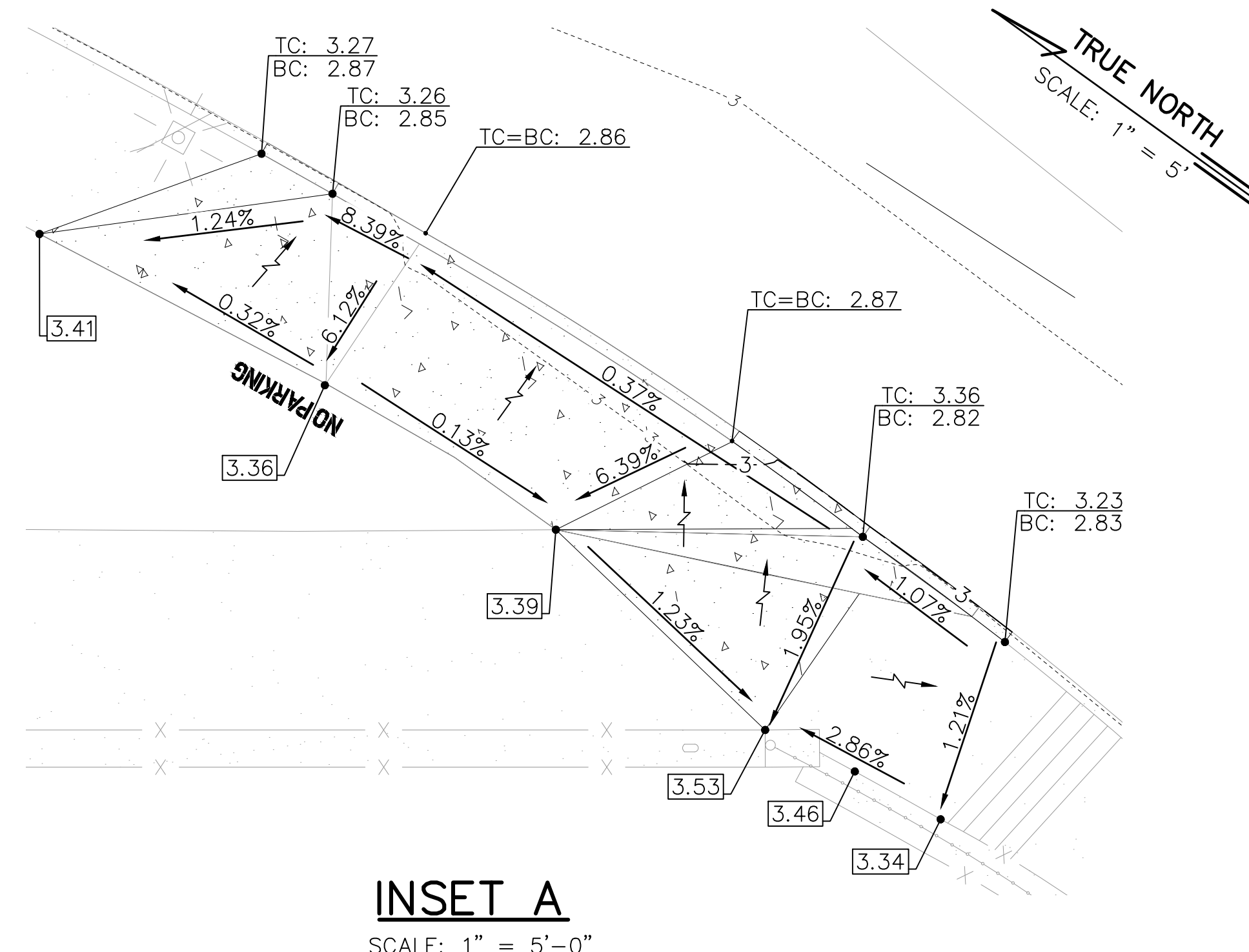
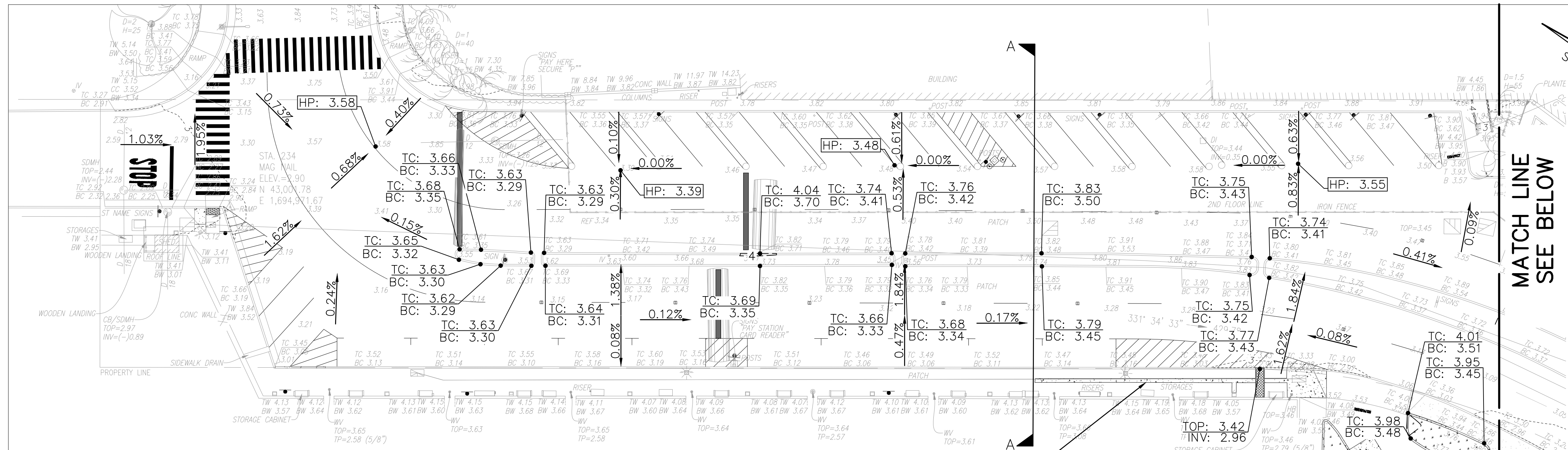
SITE PLAN 09
 SCALE: 1" = 20'-0"



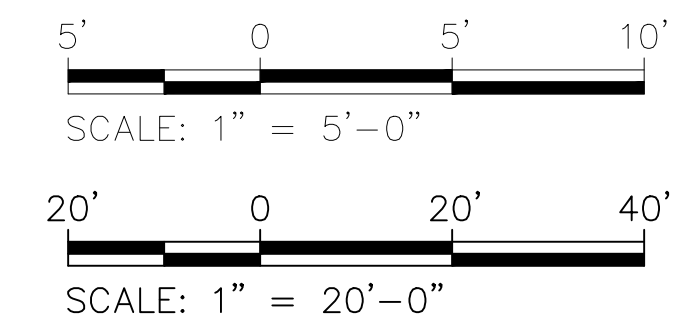
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STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII SITE PLAN 09					
DESIGNED: KJM DRAWN: AHC CHECKED: SAK APPROVED: _____ CHIEF ENGINEER			SUBMITTED: _____ DATE: MAY 2026 SCALE: AS NOTED DATE: _____		
					DRAWING NO. C-17

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 Plotted on: 5/7/2026
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- LEGEND:**
- EXISTING CONTOUR LINES & LABEL
 - PROPOSED CONTOUR LINES & LABEL
 - 4.25 EXISTING ELEVATION
 - 4.75 5.01 PROPOSED ELEVATION
 - 0.40% SLOPE PERCENTAGE
 - FLOW ARROW
- ABBREVIATIONS:**
- TC TOP CURB
 - BC BOTTOM CURB
 - HP HIGH POINT
 - LP LOW POINT
 - CC CURB CUT
 - AC A.C. PAVEMENT
 - TOP TOP OF DRAIN/CULVERT
 - INV INVERT

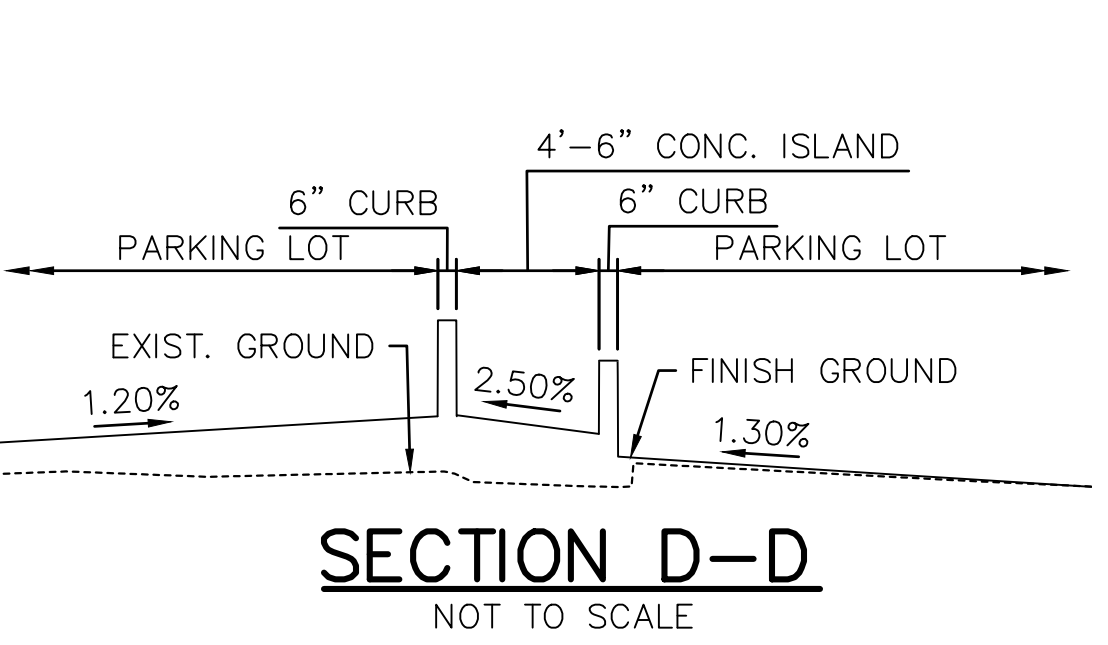
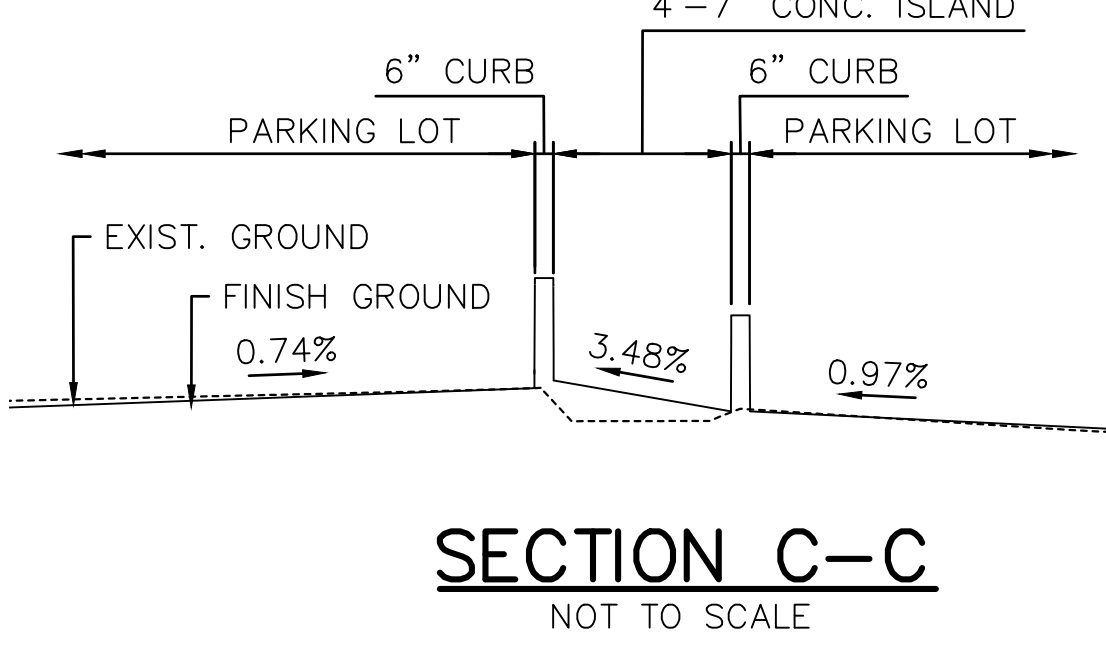
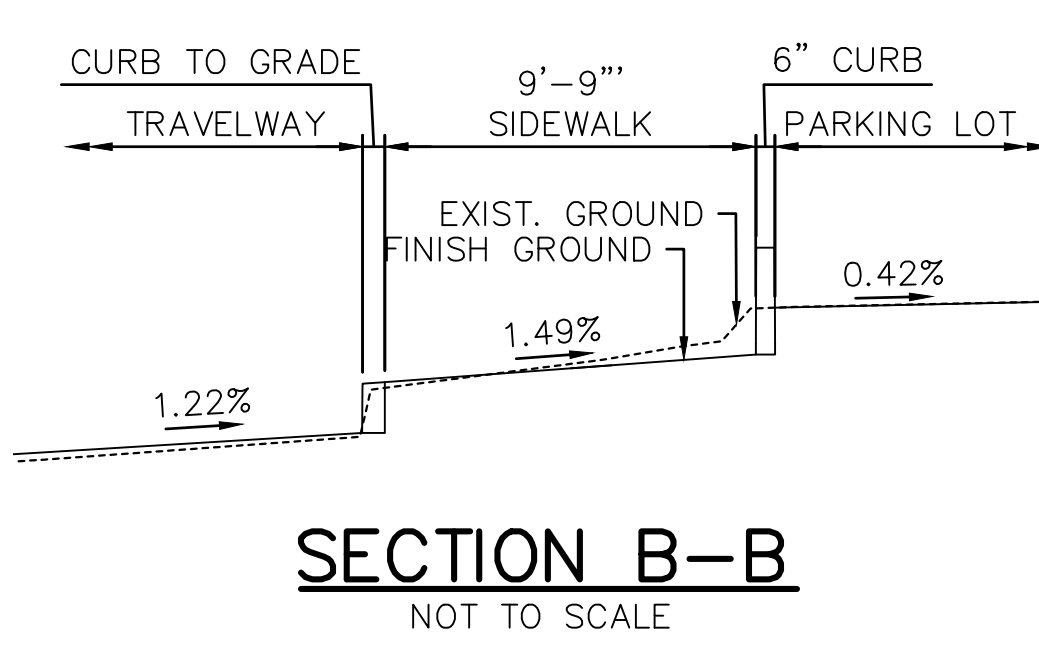
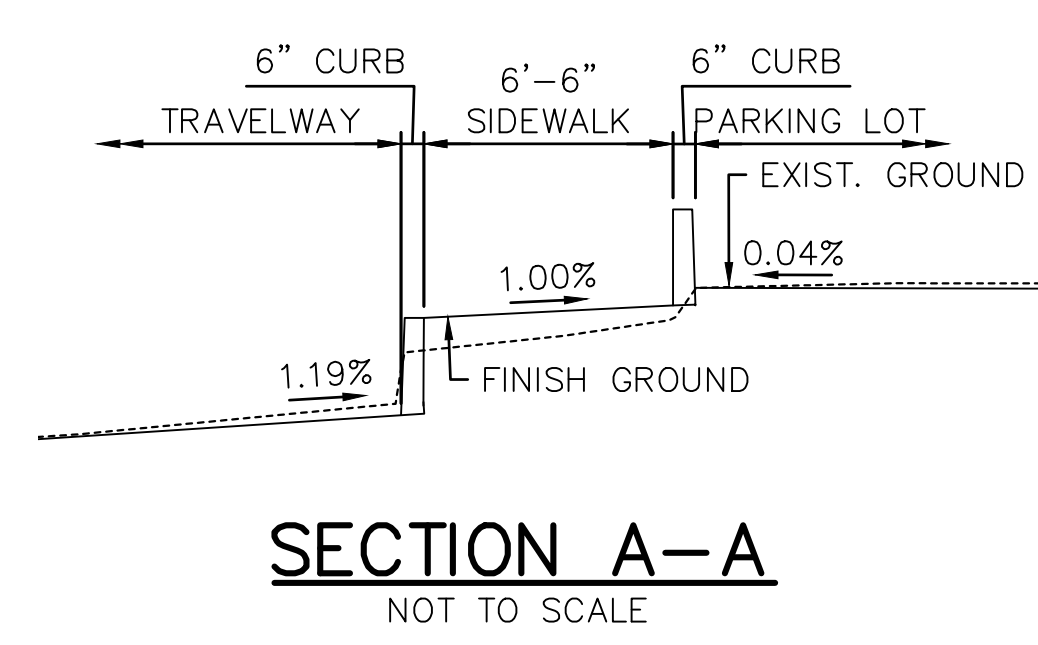
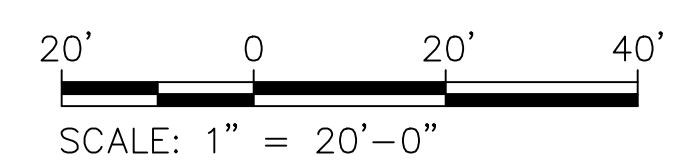
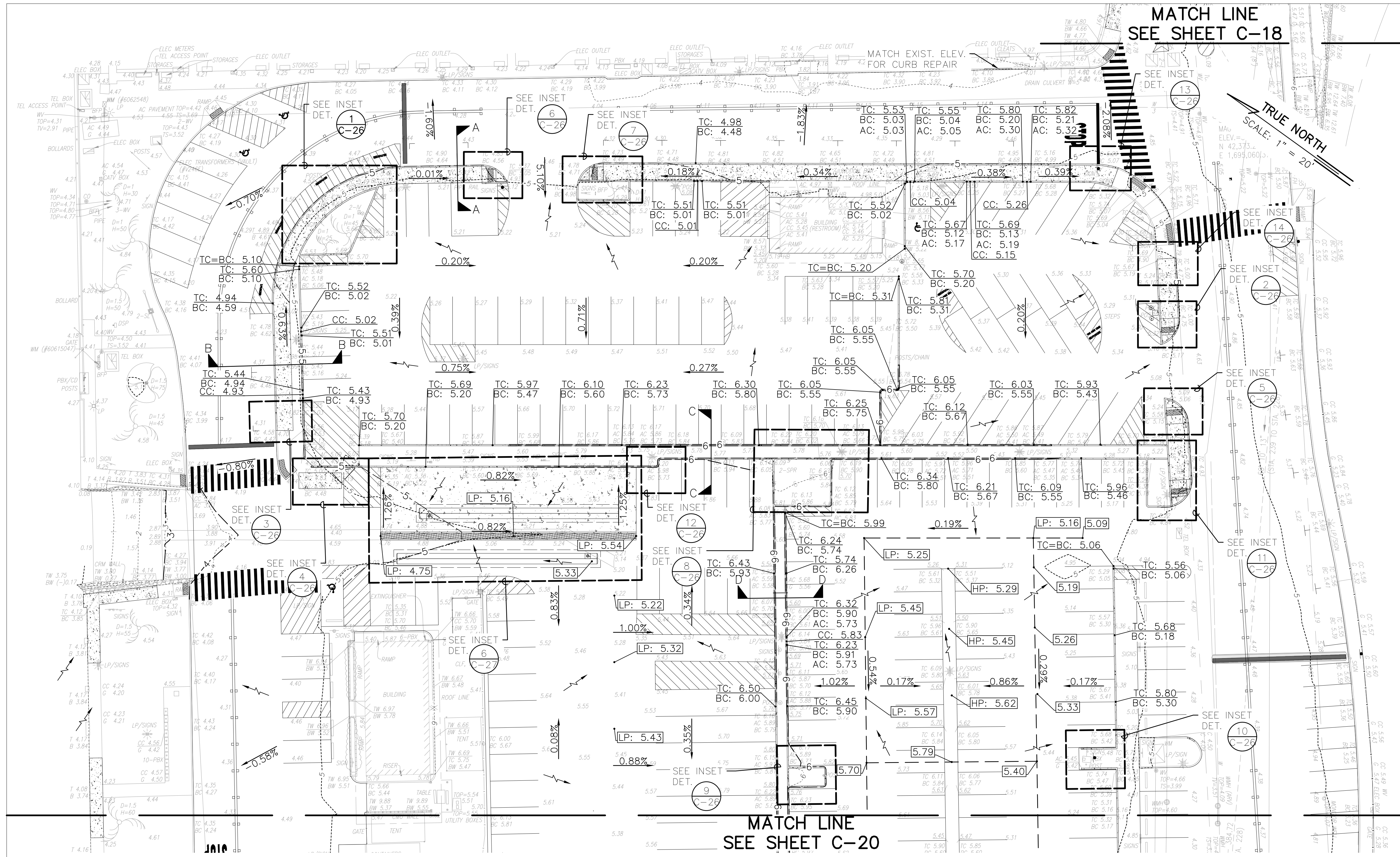


REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
GRADING PLAN 01					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			C-18		
			DATE		



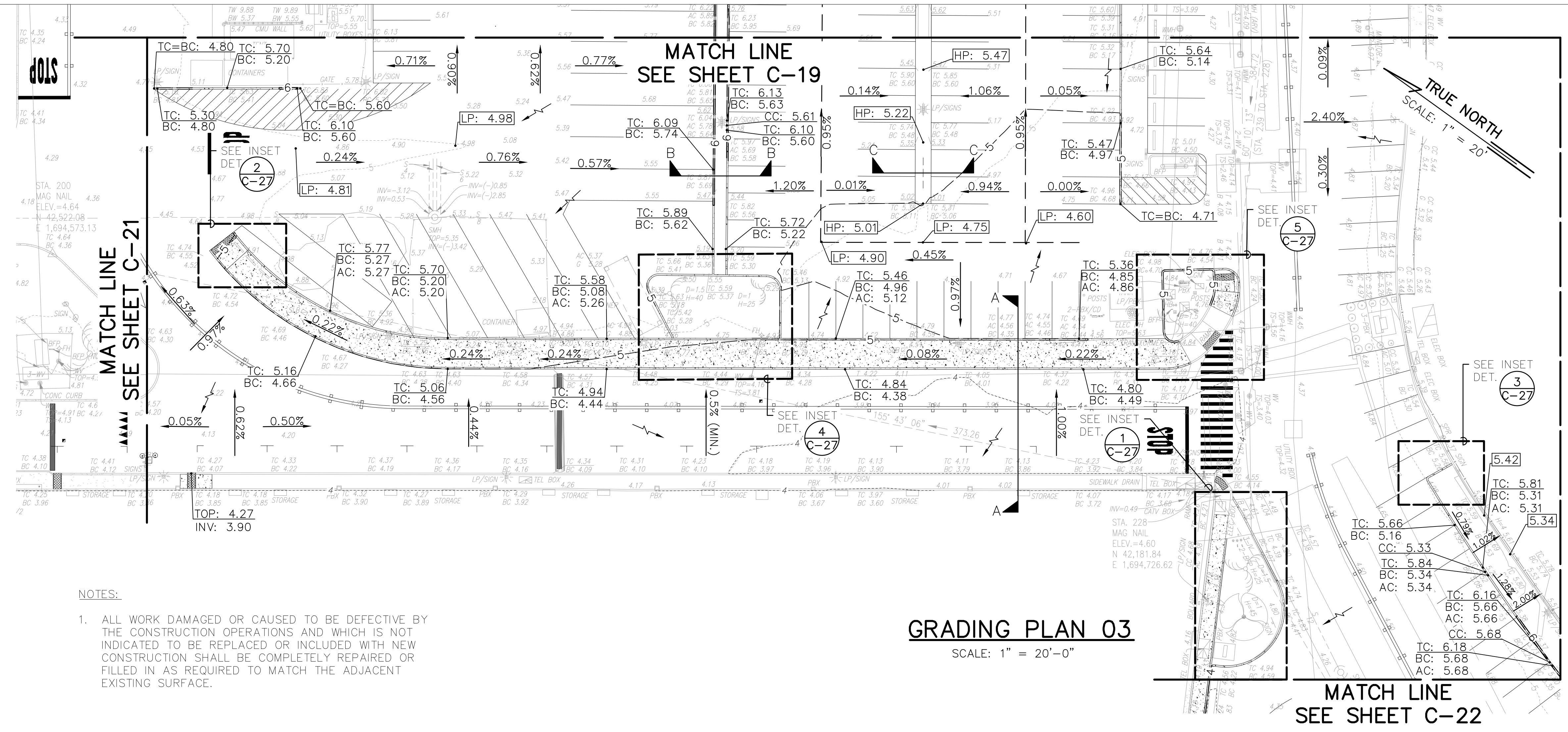
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Plotted on: 5/7/2026
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- LEGEND:**
- 3 --- EXISTING CONTOUR LINES & LABEL
 - 5 --- PROPOSED CONTOUR LINES & LABEL
 - 4.25 EXISTING ELEVATION
 - 4.75 5.01 PROPOSED ELEVATION
 - 0.40% SLOPE PERCENTAGE
 - FLOW ARROW
- ABBREVIATIONS:**
- TC TOP CURB
 - BC BOTTOM CURB
 - HP HIGH POINT
 - LP LOW POINT
 - CC CURB CUT
 - AC A.C. PAVEMENT
 - TOP TOP OF DRAIN/CULVERT
 - INV INVERT
- NOTES:**
- ALL WORK DAMAGED OR CAUSED TO BE DEFECTIVE BY THE CONSTRUCTION OPERATIONS AND WHICH IS NOT INDICATED TO BE REPLACED OR INCLUDED WITH NEW CONSTRUCTION SHALL BE COMPLETELY REPAIRED OR FILLED IN AS REQUIRED TO MATCH THE ADJACENT EXISTING SURFACE.

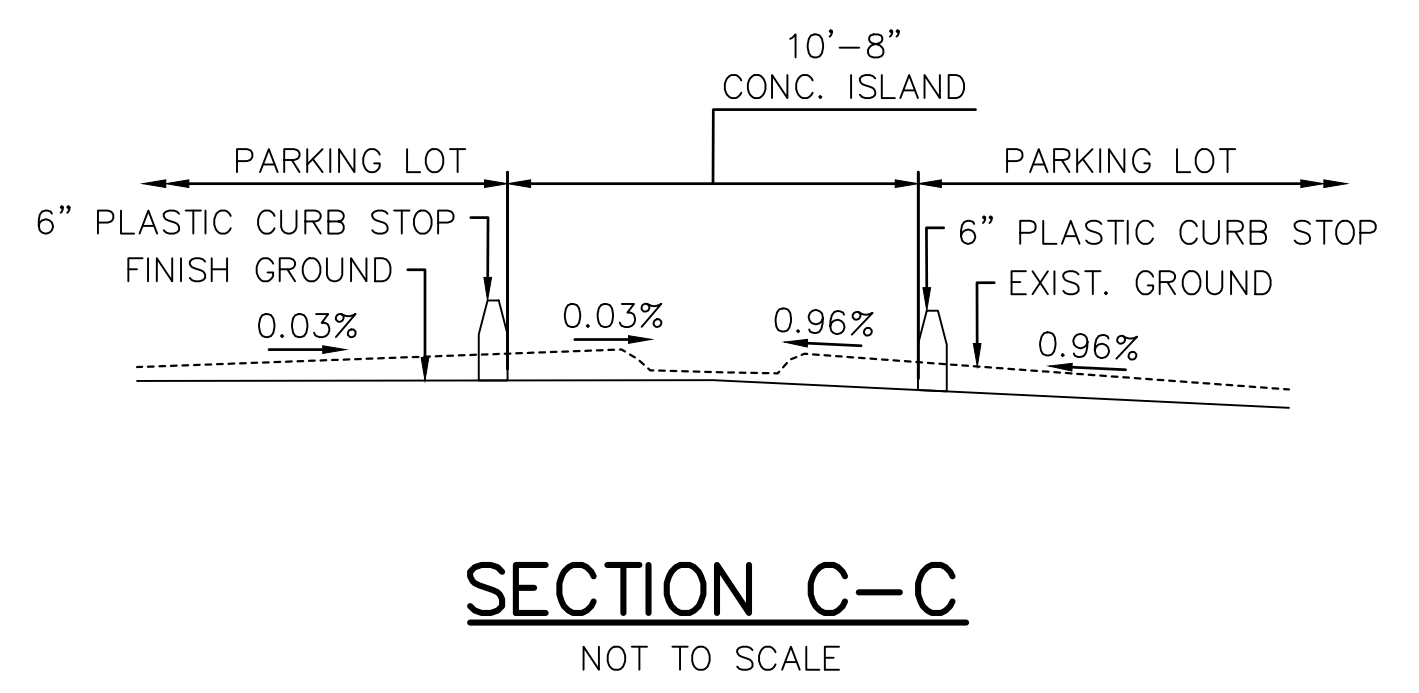
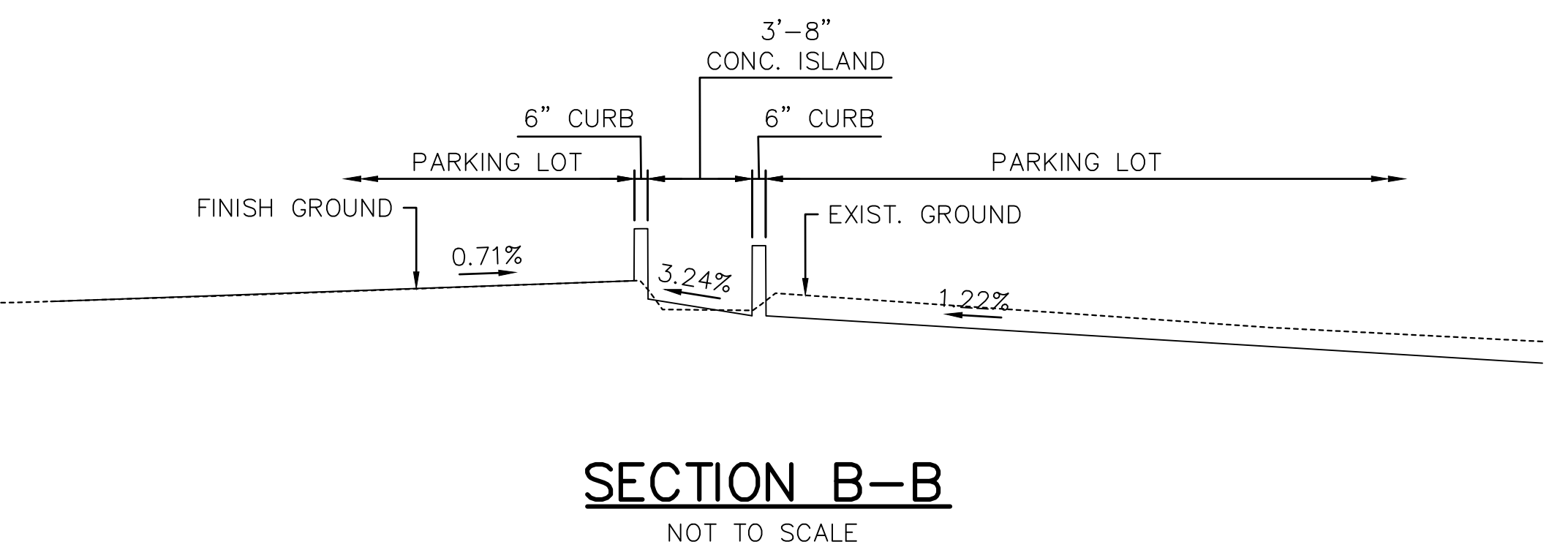
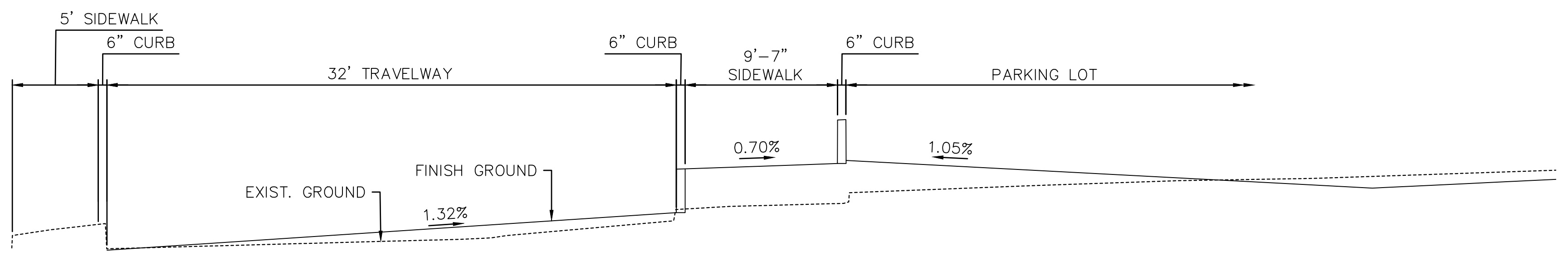


REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
GRADING PLAN 02					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			C-19		

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Last Saved: 5/6/2026
Plotted on: 5/7/2026



- NOTES:**
1. ALL WORK DAMAGED OR CAUSED TO BE DEFECTIVE BY THE CONSTRUCTION OPERATIONS AND WHICH IS NOT INDICATED TO BE REPLACED OR INCLUDED WITH NEW CONSTRUCTION SHALL BE COMPLETELY REPAIRED OR FILLED IN AS REQUIRED TO MATCH THE ADJACENT EXISTING SURFACE.

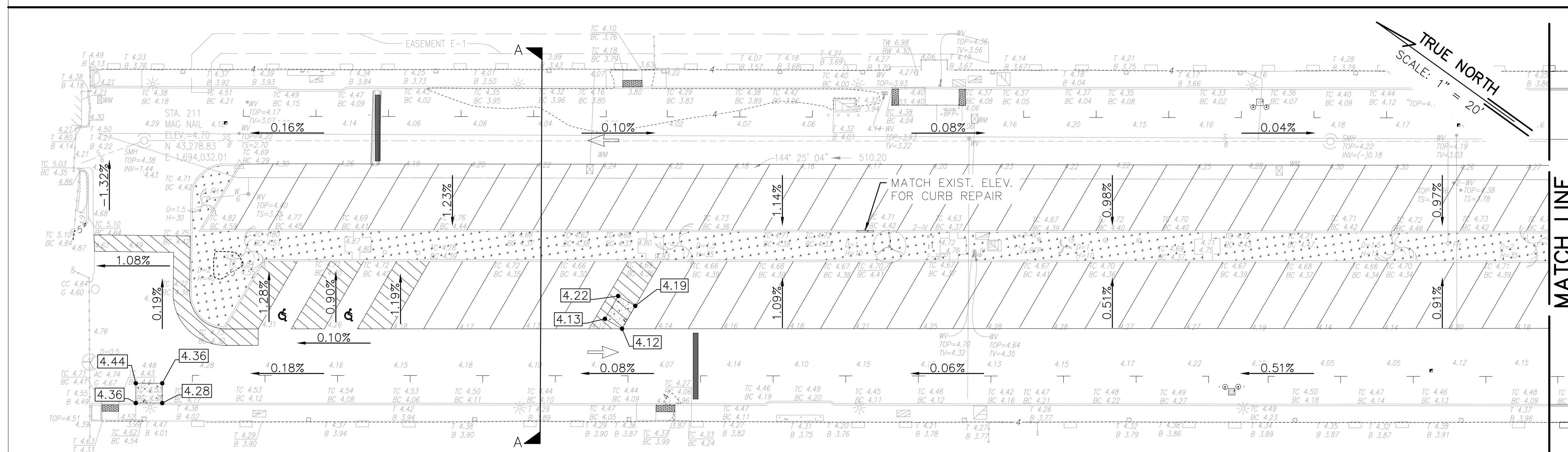
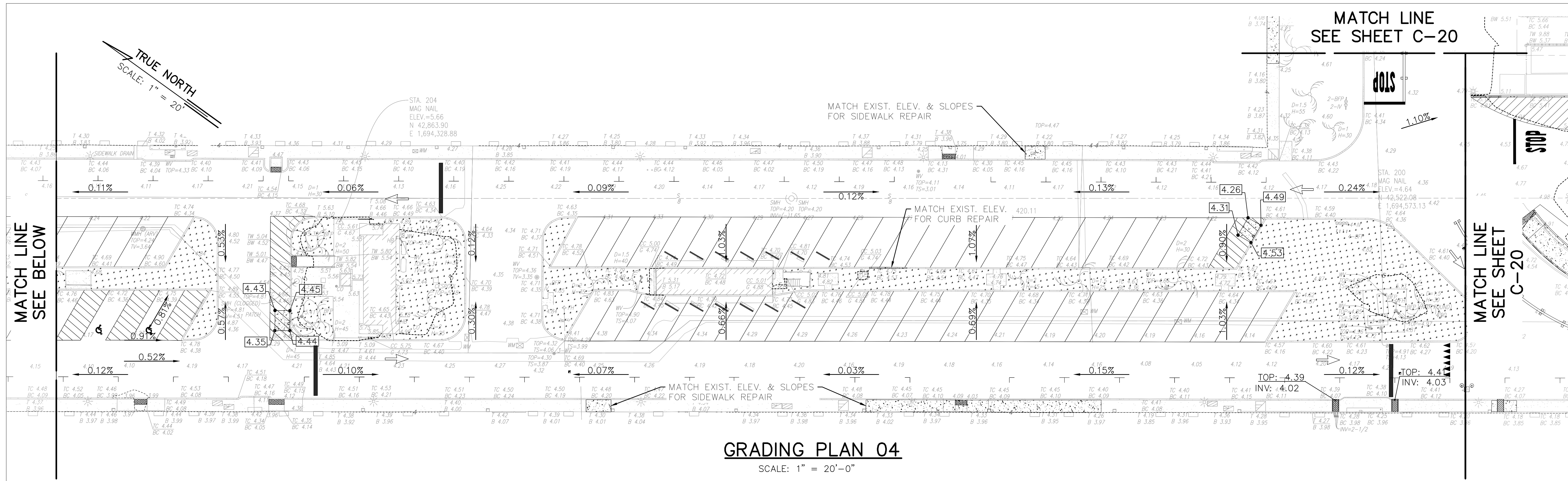


- LEGEND:**
- 3--- EXISTING CONTOUR LINES & LABEL
 - 5--- PROPOSED CONTOUR LINES & LABEL
 - 4.25 EXISTING ELEVATION
 - 4.75 5.01 PROPOSED ELEVATION
 - 0.40% SLOPE PERCENTAGE
 - FLOW ARROW

- ABBREVIATIONS:**
- TC TOP CURB
 - BC BOTTOM CURB
 - HP HIGH POINT
 - LP LOW POINT
 - CC CURB CUT
 - AC A.C. PAVEMENT
 - TOP TOP OF DRAIN/CULVERT
 - INV INVERT
- SCALE: 1" = 20'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
GRADING PLAN 03					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			DATE		
			C-20		

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Plotted on: 5/7/2026



- NOTES:**
- ALL WORK DAMAGED OR CAUSED TO BE DEFECTIVE BY THE CONSTRUCTION OPERATIONS AND WHICH IS NOT INDICATED TO BE REPLACED OR INCLUDED WITH NEW CONSTRUCTION SHALL BE COMPLETELY REPAIRED OR FILLED IN AS REQUIRED TO MATCH THE ADJACENT EXISTING SURFACE.
 - ALL REPAIR AND RECONSTRUCTION OF EXISTING CURB, SIDEWALKS & CULVERTS SHALL BE IN COMPLIANCE WITH ADAAG SECTIONS 303 - CHANGES IN LEVEL & 403 - WALKING SURFACES.

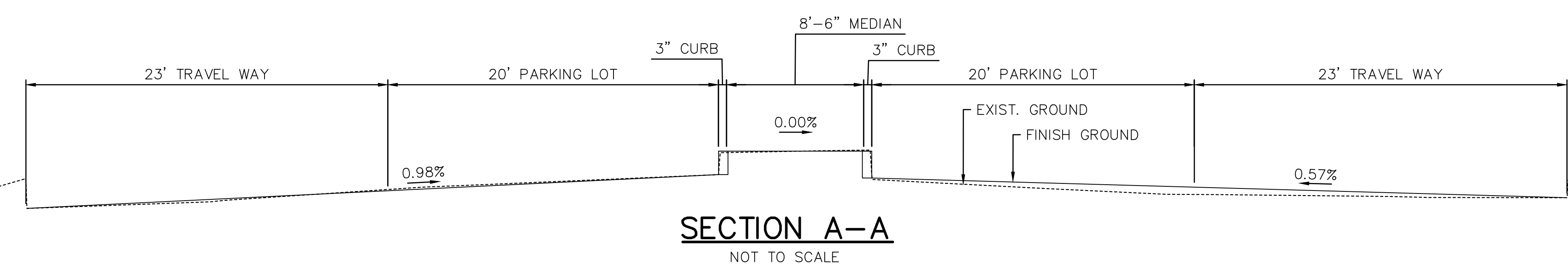
LEGEND:

- 3 --- EXISTING CONTOUR LINES & LABEL
- 5 --- PROPOSED CONTOUR LINES & LABEL
- 4.25 EXISTING ELEVATION
- 4.75 5.01 PROPOSED ELEVATION
- 0.40% SLOPE PERCENTAGE
- FLOW ARROW

ABBREVIATIONS:

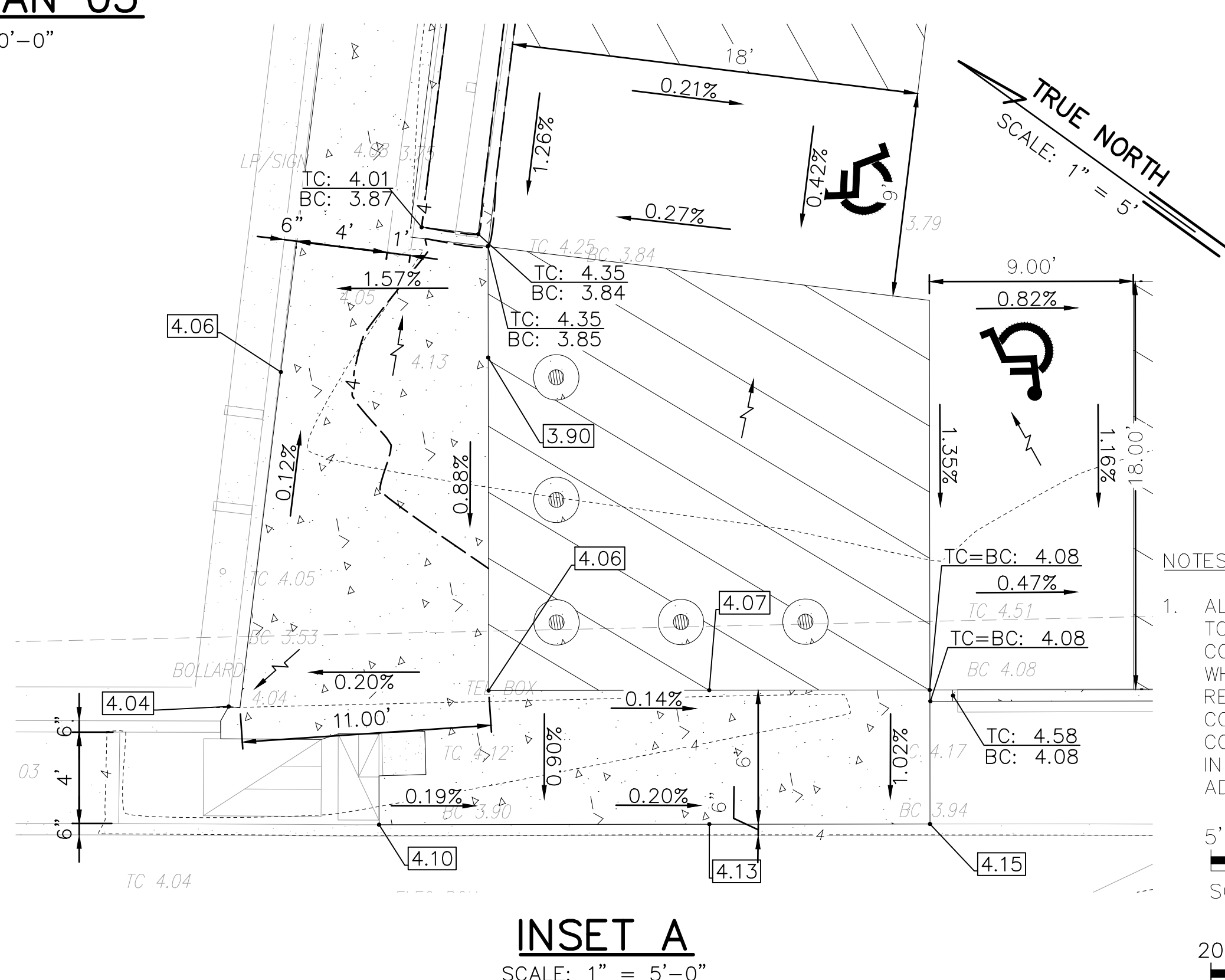
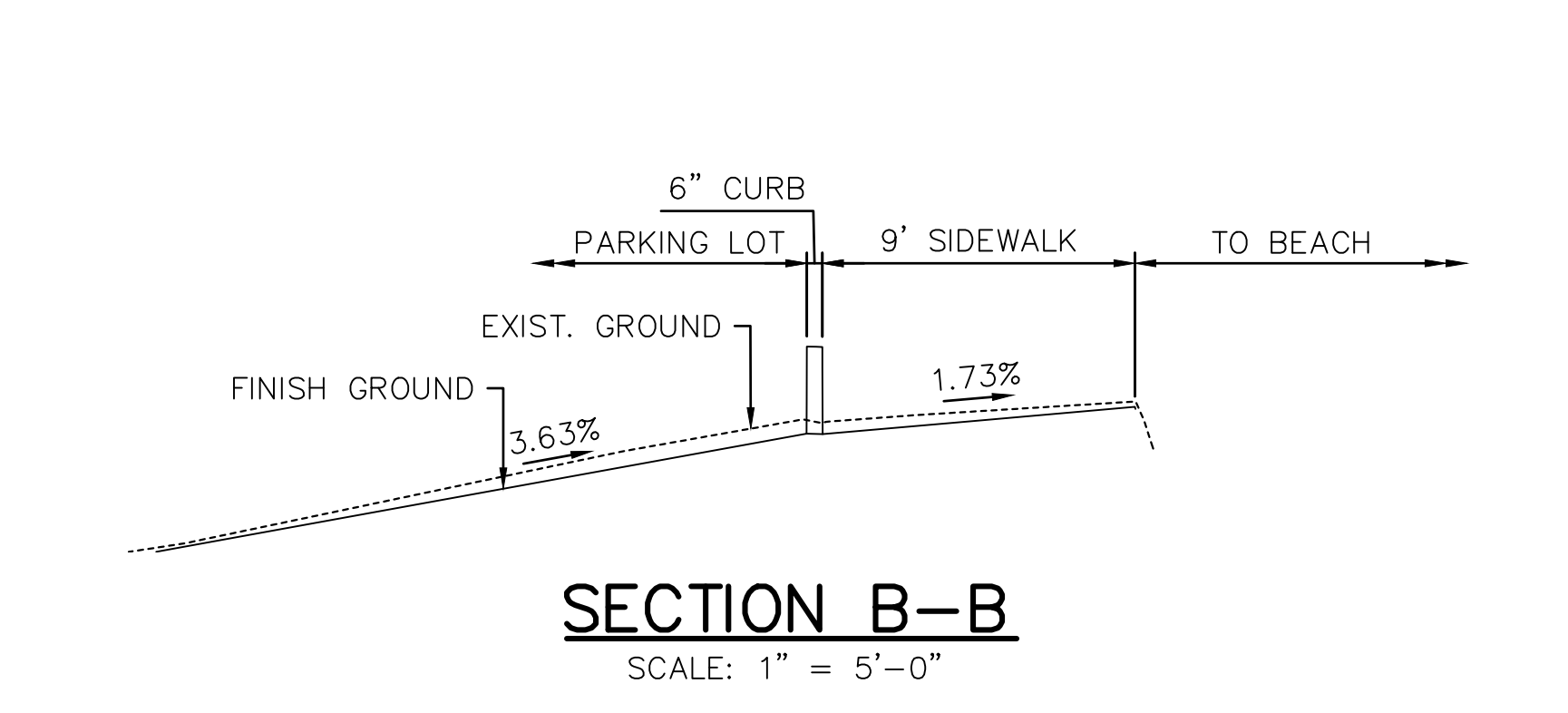
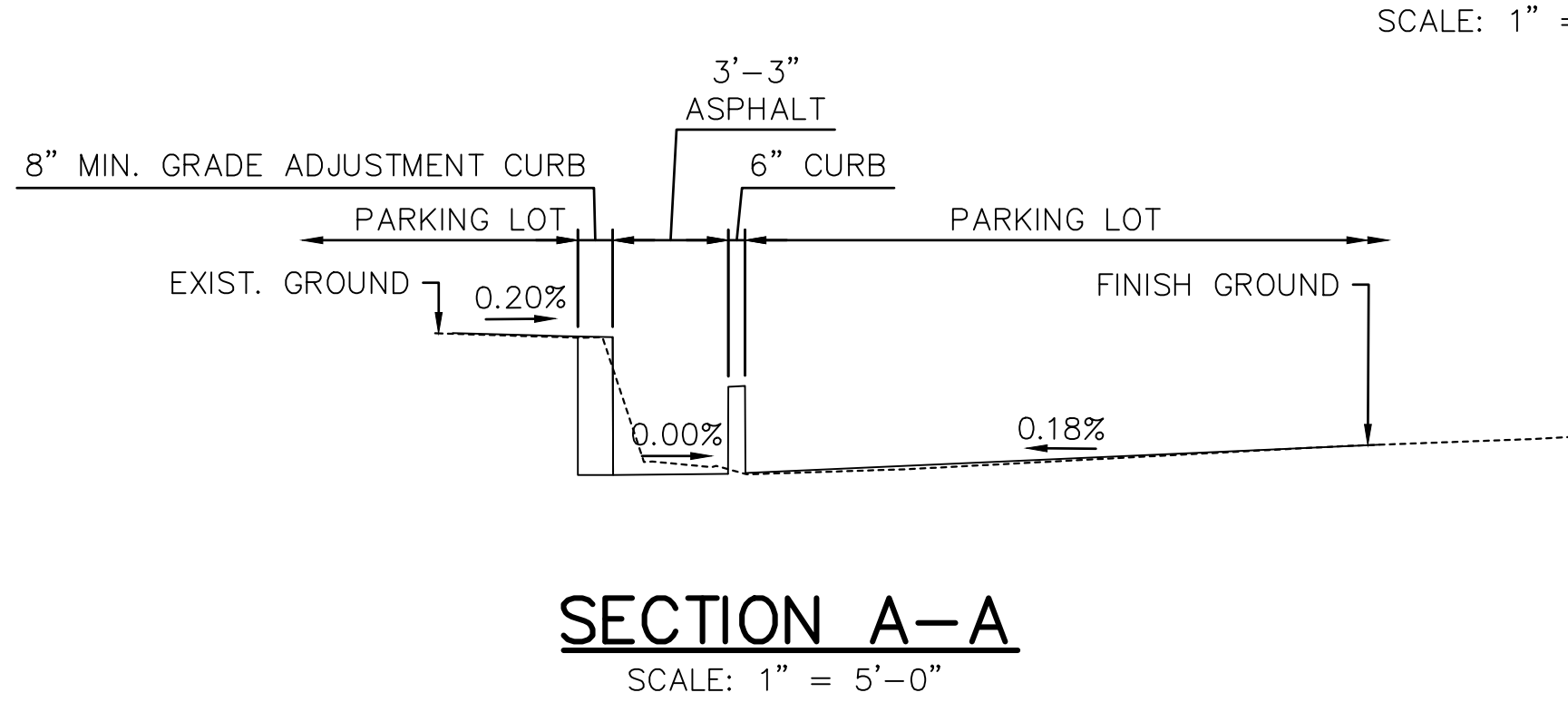
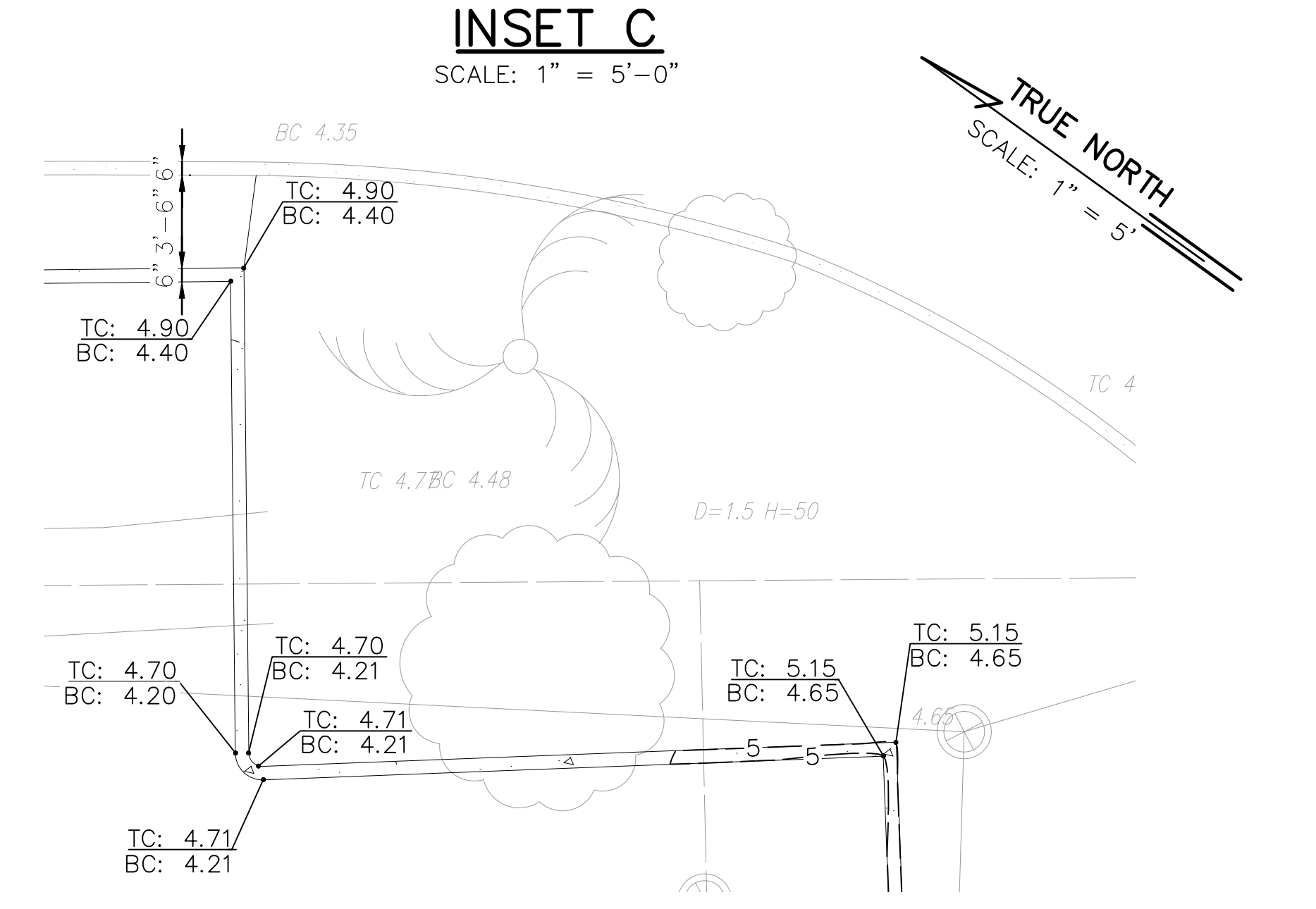
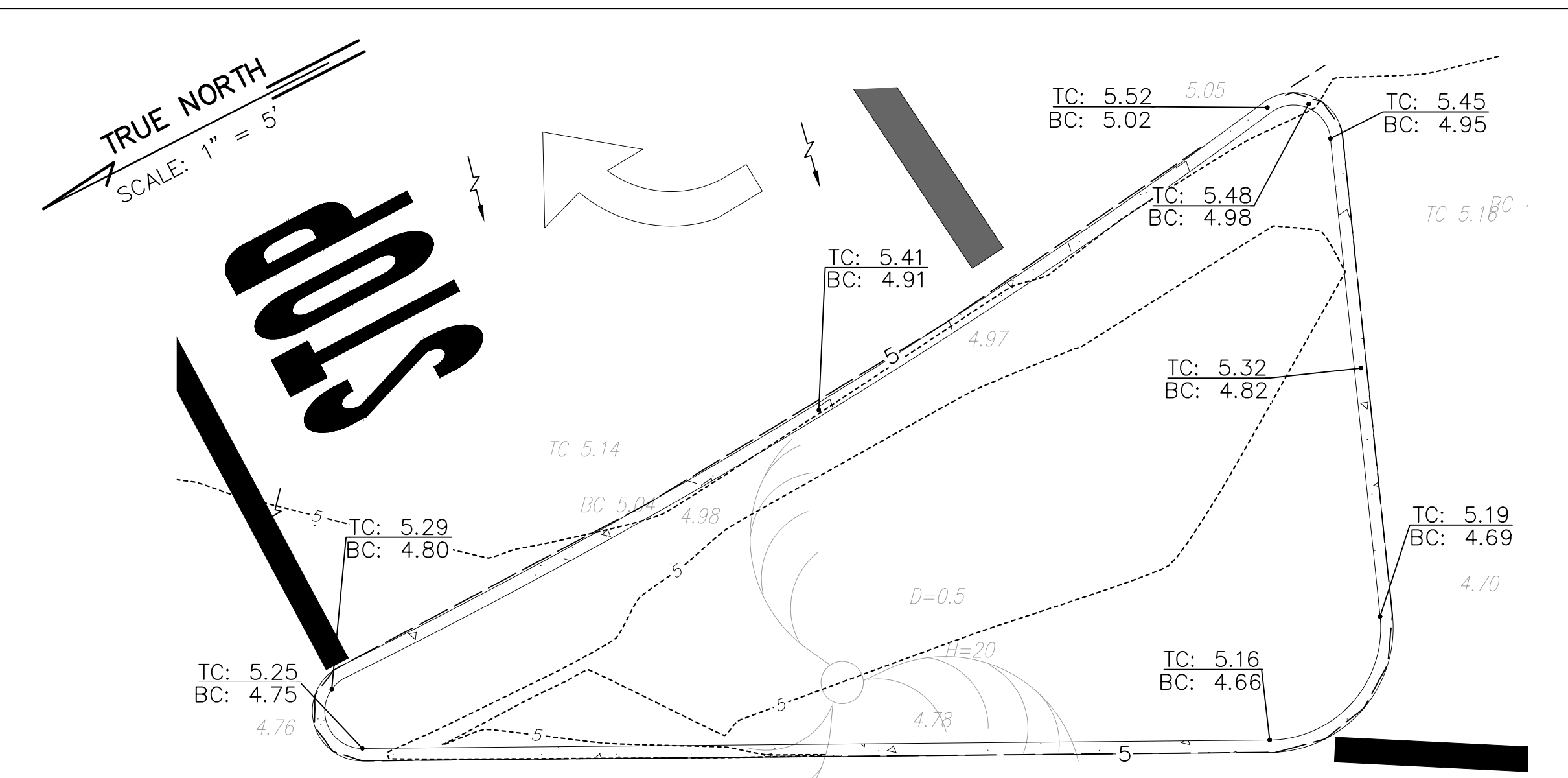
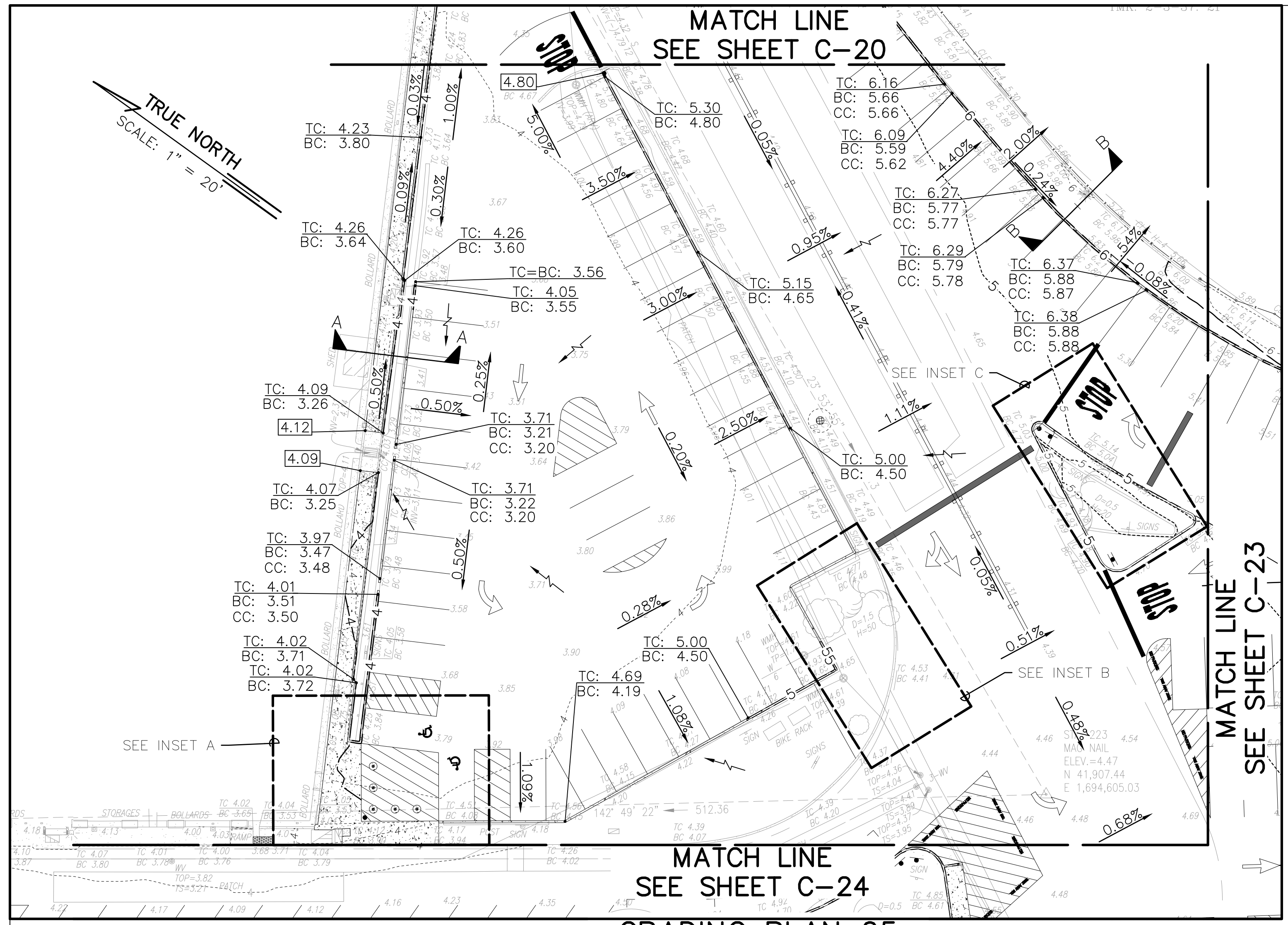
- TC TOP CURB
- BC BOTTOM CURB
- HP HIGH POINT
- LP LOW POINT
- CC CURB CUT
- AC A.C. PAVEMENT
- TOP TOP OF DRAIN/CULVERT
- INV INVERT

20' 0 20' 40'
SCALE: 1" = 20'-0"



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
GRADING PLAN 04					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			DATE		
			C-21		

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LEGEND:

- 3 --- EXISTING CONTOUR LINES & LABEL
- 5 --- PROPOSED CONTOUR LINES & LABEL
- 4.25 EXISTING ELEVATION
- 4.75 5.01 PROPOSED ELEVATION
- 0.40% SLOPE PERCENTAGE
- FLOW ARROW

ABBREVIATIONS:

- TC TOP CURB
- BC BOTTOM CURB
- HP HIGH POINT
- LP LOW POINT
- CC CURB CUT
- AC A.C. PAVEMENT
- TOP TOP OF DRAIN/CULVERT
- INV INVERT

NOTES:

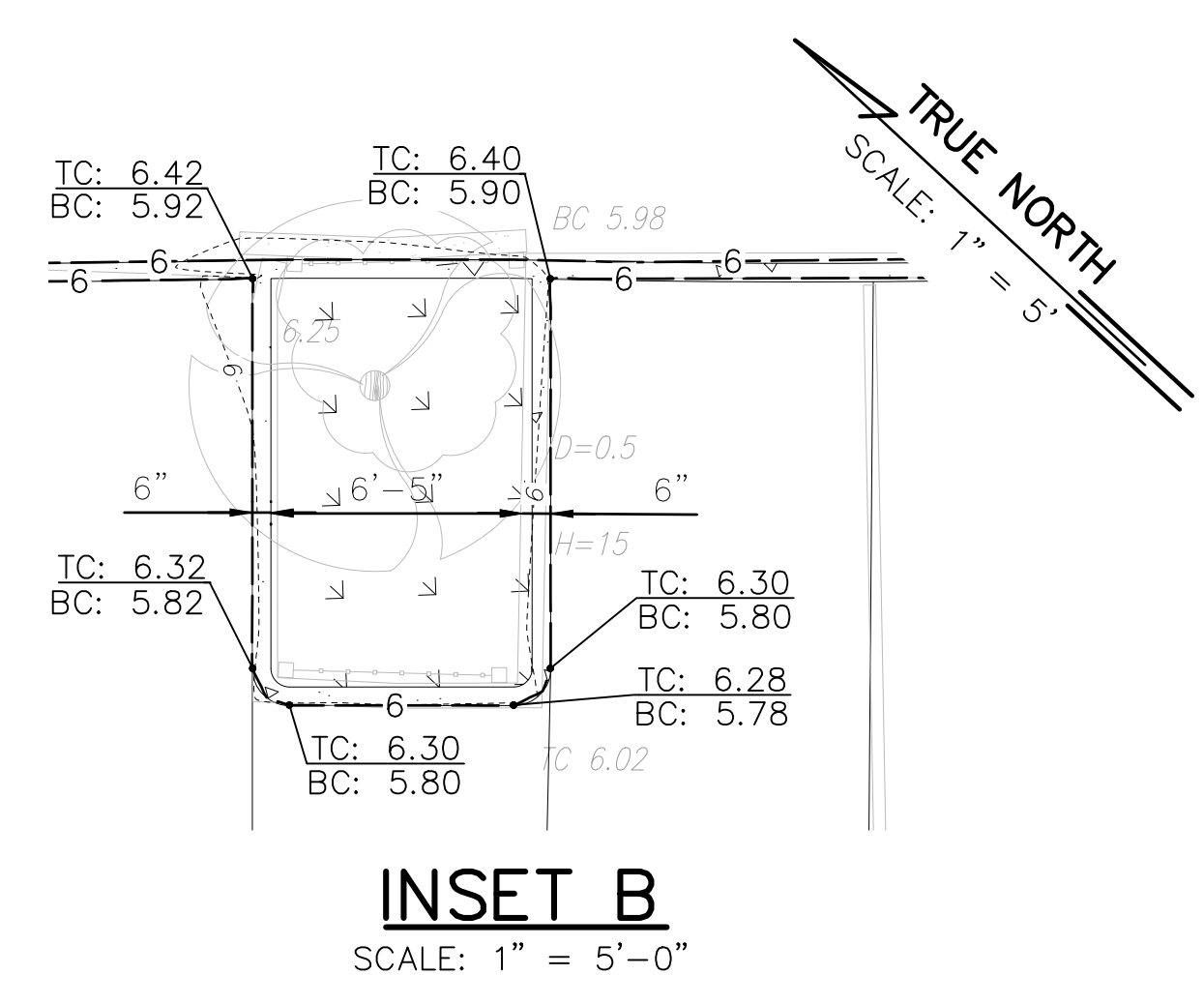
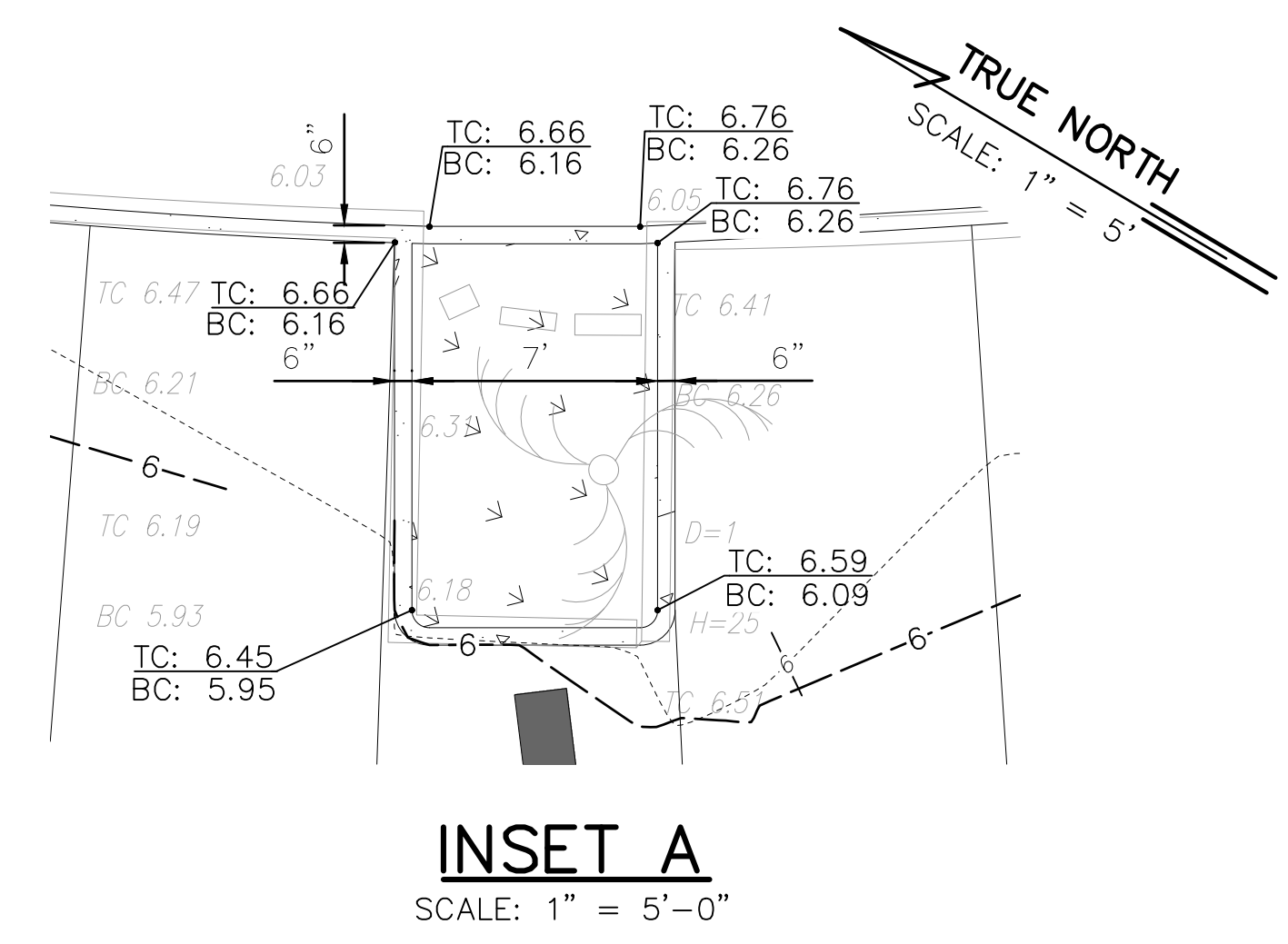
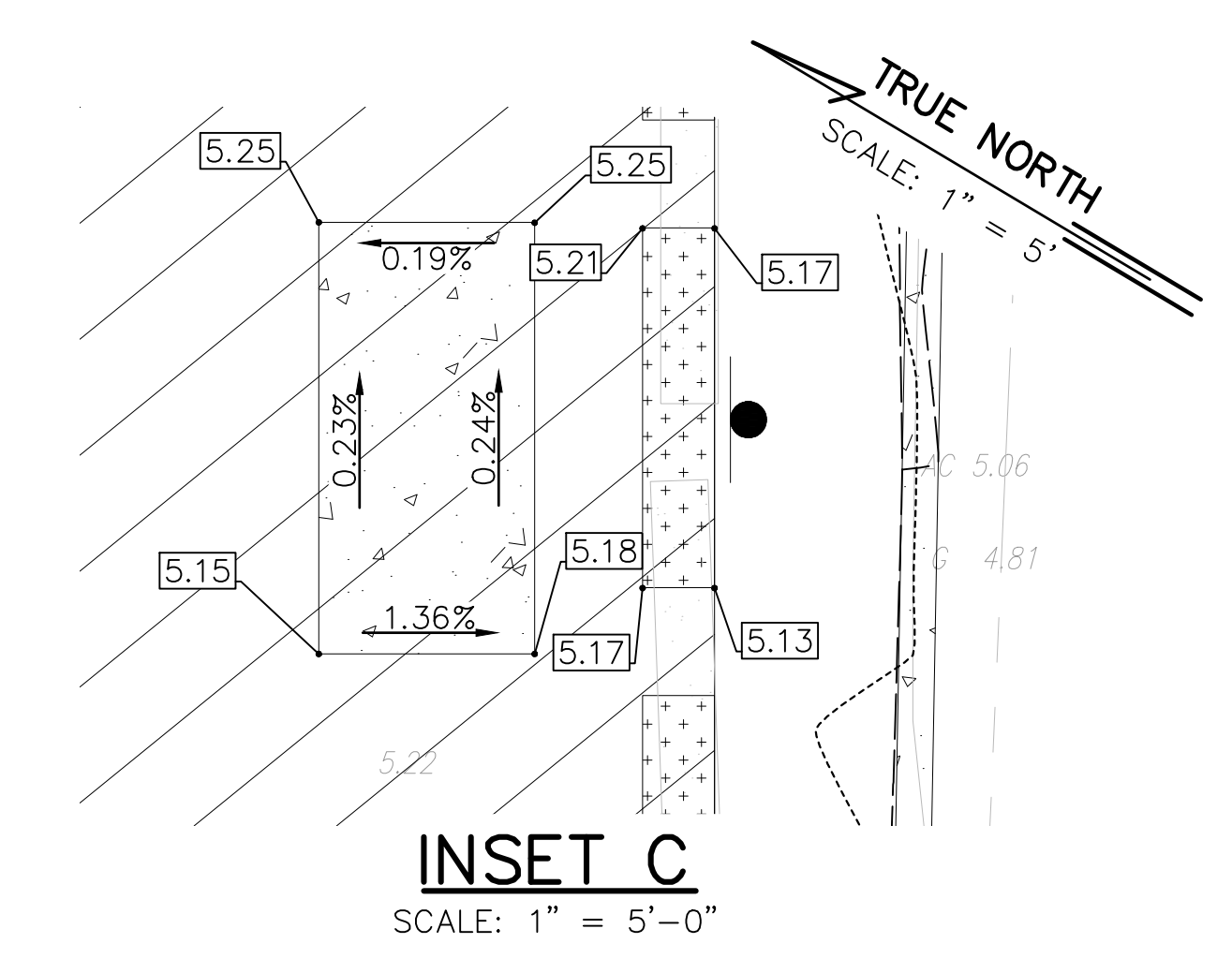
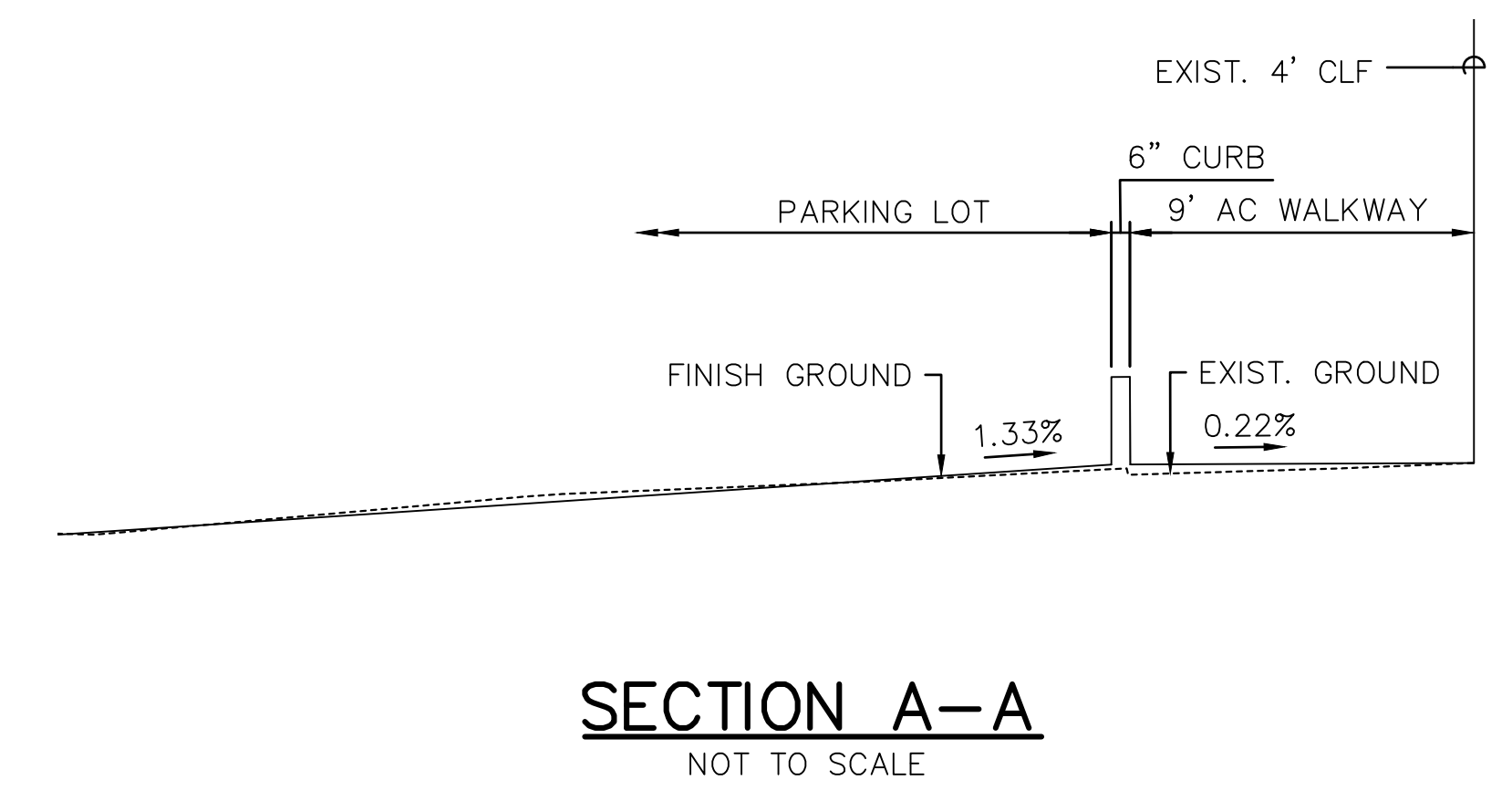
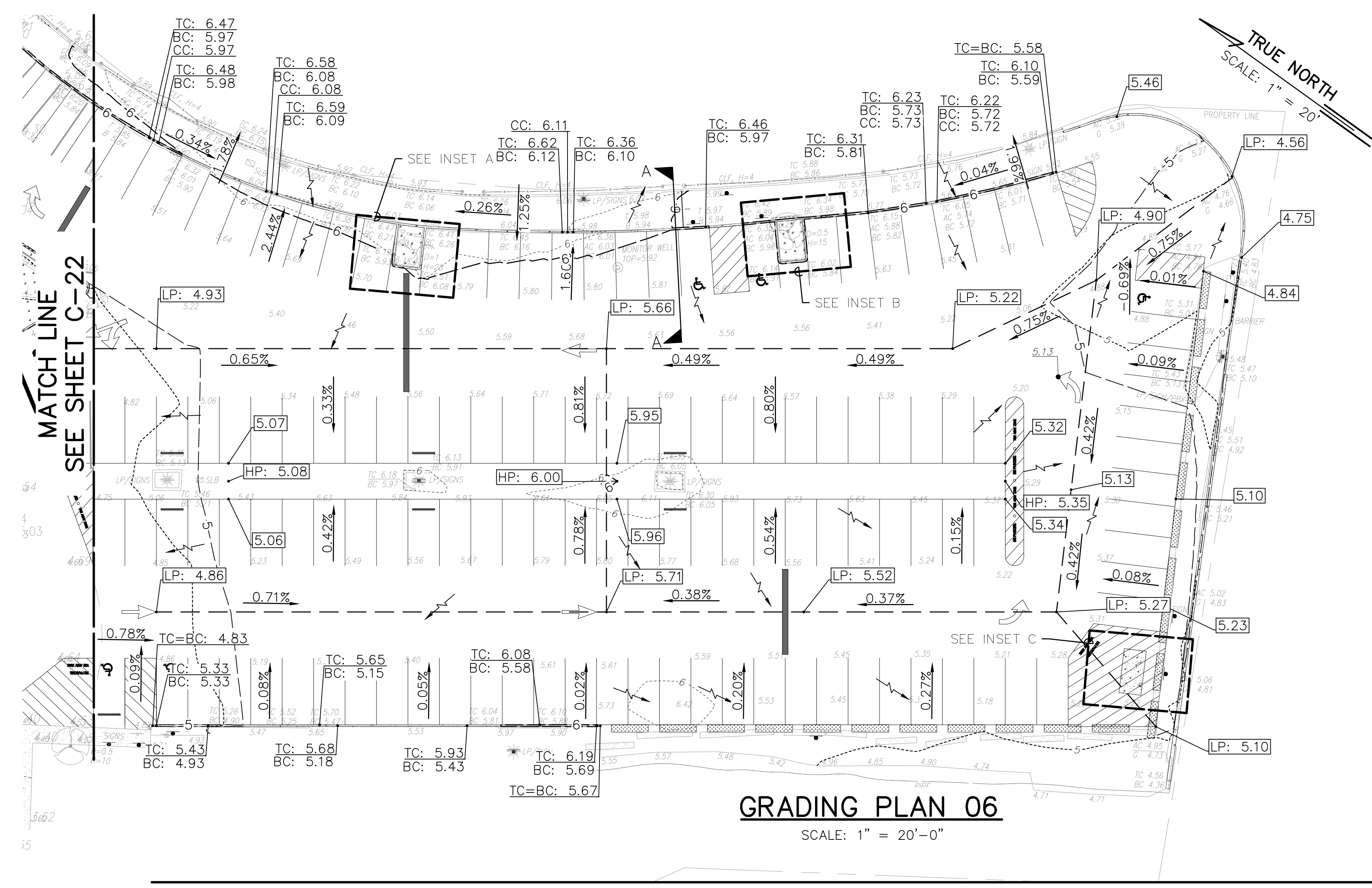
- ALL WORK DAMAGED OR CAUSED TO BE DEFECTIVE BY THE CONSTRUCTION OPERATIONS AND WHICH IS NOT INDICATED TO BE REPLACED OR INCLUDED WITH NEW CONSTRUCTION SHALL BE COMPLETELY REPAIRED OR FILLED IN AS REQUIRED TO MATCH THE ADJACENT EXISTING SURFACE.

5' 0 5' 10'
SCALE: 1" = 5'-0"

20' 0 20' 40'
SCALE: 1" = 20'-0"

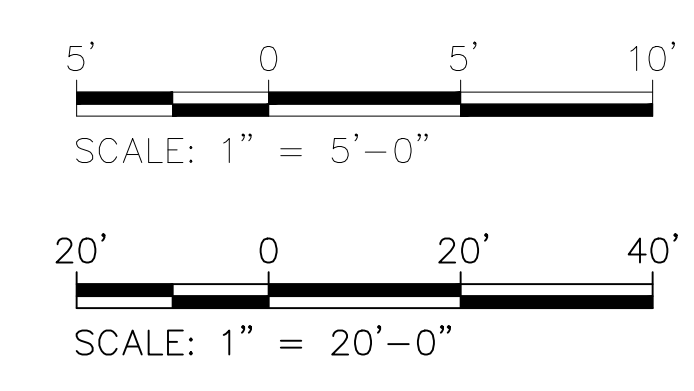
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STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
GRADING PLAN 05					
DESIGNED: KJM	SUBMITTED:				
DRAWN: AHC	DATE: MAY 2026				
CHECKED: SAK	SCALE: AS NOTED				
APPROVED:	DATE		DRAWING NO.		
CHIEF ENGINEER			C-22		

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LEGEND:		ABBREVIATIONS:	
---3---	EXISTING CONTOUR LINES & LABEL	TC	TOP CURB
---5---	PROPOSED CONTOUR LINES & LABEL	BC	BOTTOM CURB
4.25	EXISTING ELEVATION	HP	HIGH POINT
4.75 5.01	PROPOSED ELEVATION	LP	LOW POINT
0.40%	SLOPE PERCENTAGE	CC	CURB CUT
→	FLOW ARROW	AC	A.C. PAVEMENT
		TOP	TOP OF DRAIN/CULVERT
		INV	INVERT

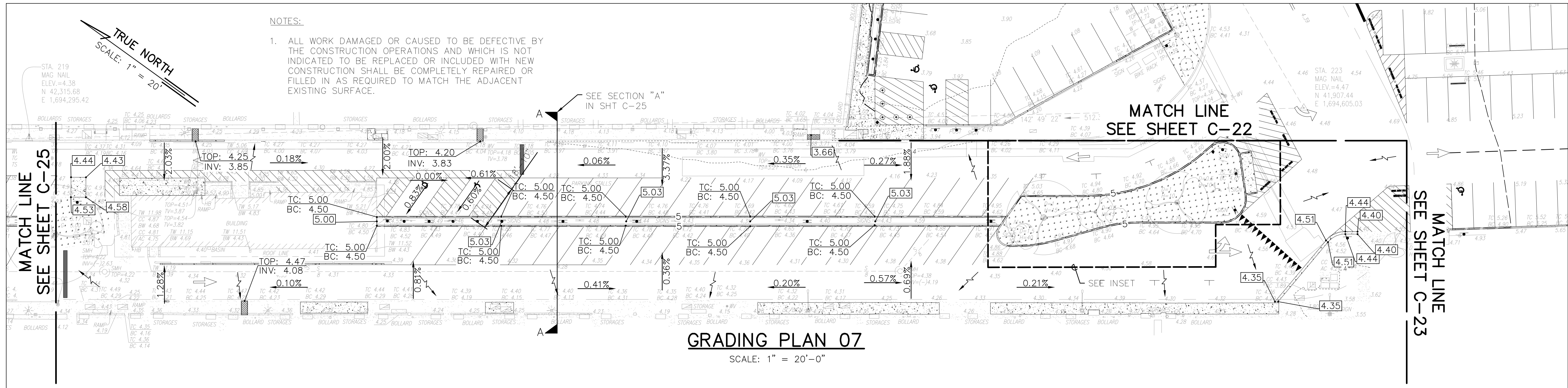
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ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
GRADING PLAN 06					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:					DRAWING NO.
CHIEF ENGINEER					C-23



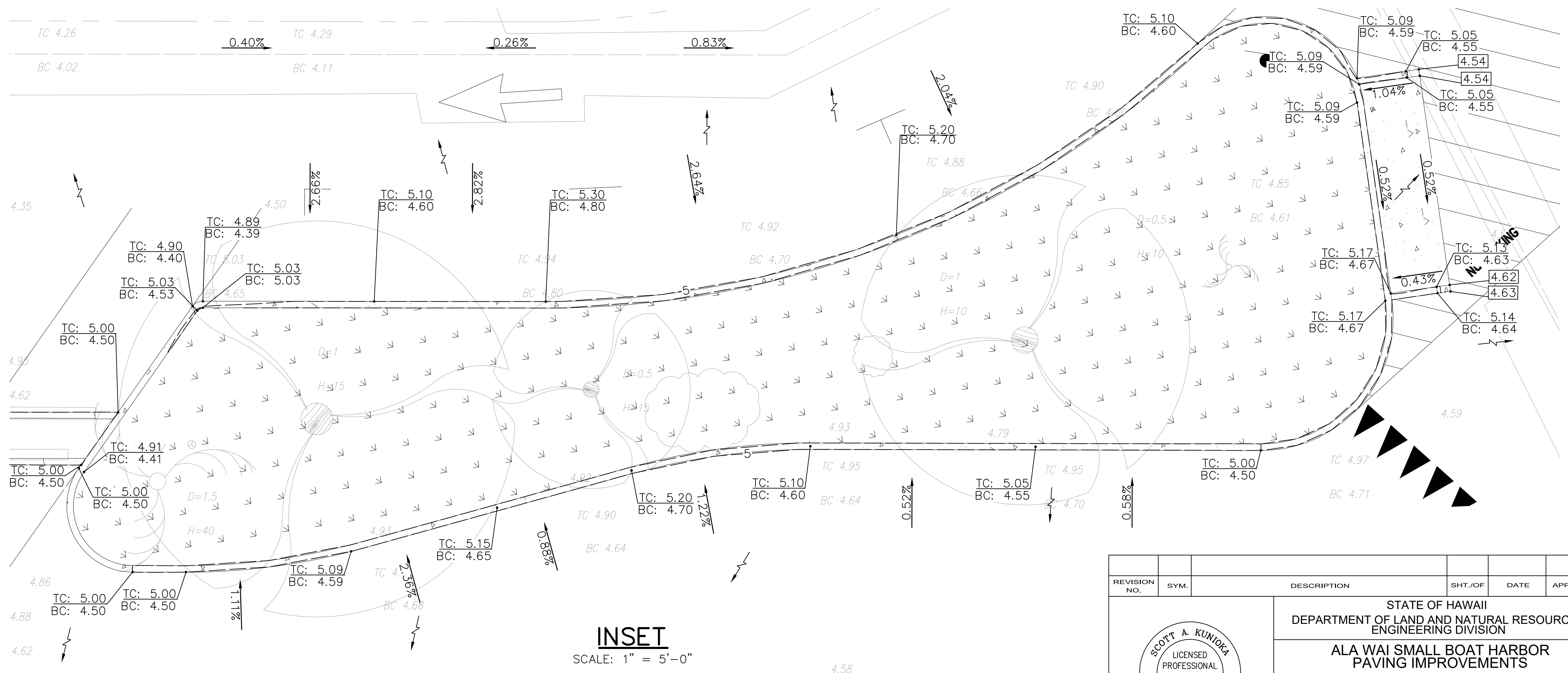
- NOTES:**
- ALL WORK DAMAGED OR CAUSED TO BE DEFECTIVE BY THE CONSTRUCTION OPERATIONS AND WHICH IS NOT INDICATED TO BE REPLACED OR INCLUDED WITH NEW CONSTRUCTION SHALL BE COMPLETELY REPAIRED OR FILLED IN AS REQUIRED TO MATCH THE ADJACENT EXISTING SURFACE.

Last Save by: KJM
Last Saved: 5/6/2026
Plotted on: 5/7/2026
g:\dmr2402 ala wai sbh paving\300 design\310 plans\DLNR2402 Grading Plan 5.dwg

NOTES:
 1. ALL WORK DAMAGED OR CAUSED TO BE DEFECTIVE BY THE CONSTRUCTION OPERATIONS AND WHICH IS NOT INDICATED TO BE REPLACED OR INCLUDED WITH NEW CONSTRUCTION SHALL BE COMPLETELY REPAIRED OR FILLED IN AS REQUIRED TO MATCH THE ADJACENT EXISTING SURFACE.



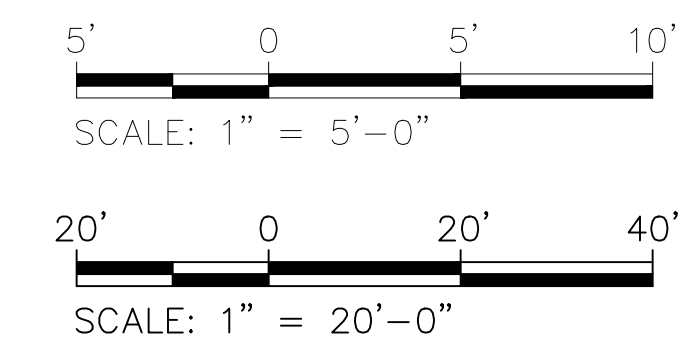
GRADING PLAN 07
 SCALE: 1" = 20'-0"



INSET
 SCALE: 1" = 5'-0"

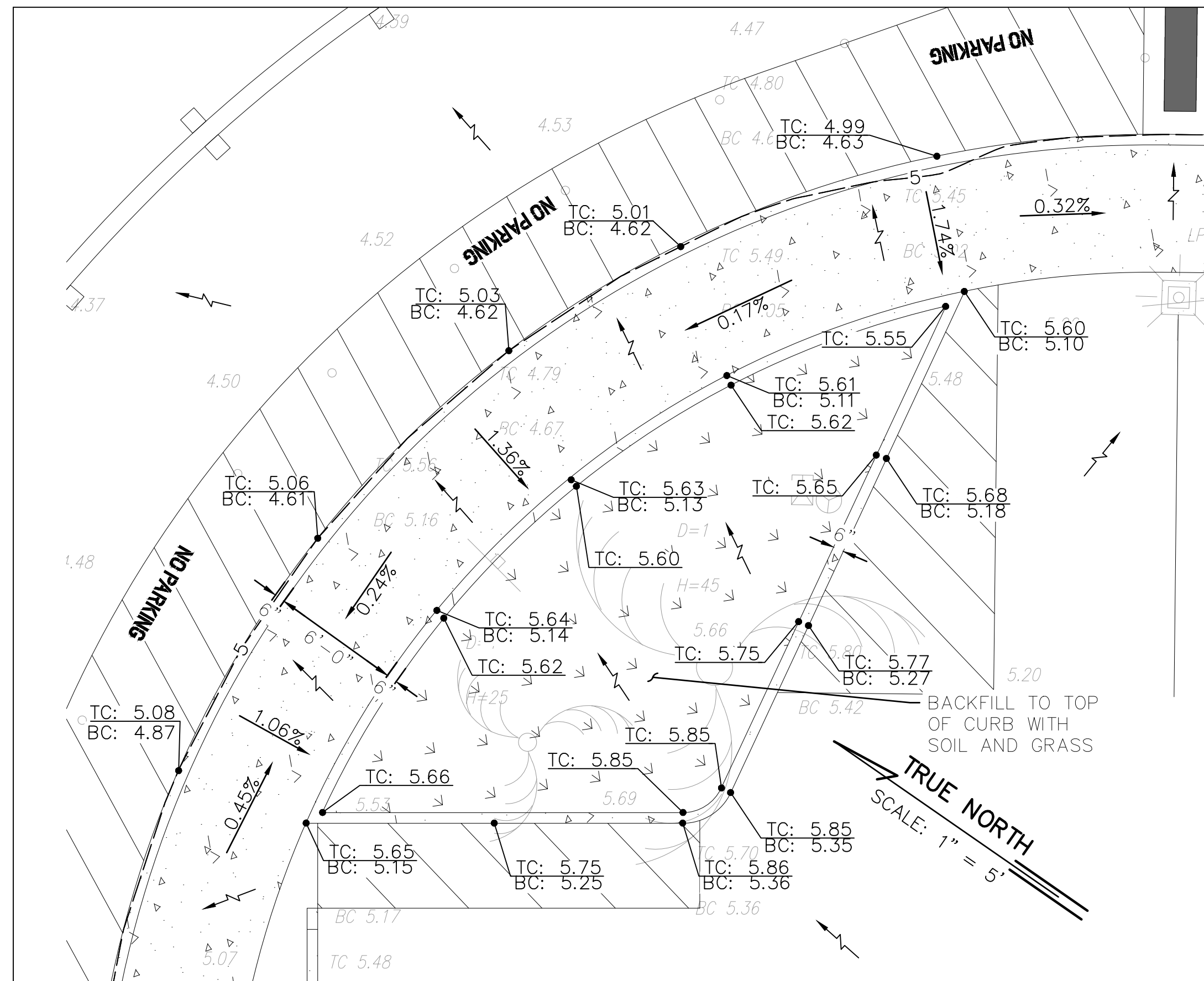
- LEGEND:**
- EXISTING CONTOUR LINES & LABEL
 - PROPOSED CONTOUR LINES & LABEL
 - EXISTING ELEVATION
 - PROPOSED ELEVATION
 - SLOPE PERCENTAGE
 - FLOW ARROW

- ABBREVIATIONS:**
- TC TOP CURB
 - BC BOTTOM CURB
 - HP HIGH POINT
 - LP LOW POINT
 - CC CURB CUT
 - AC A.C. PAVEMENT
 - TOP TOP OF DRAIN/CULVERT
 - INV INVERT

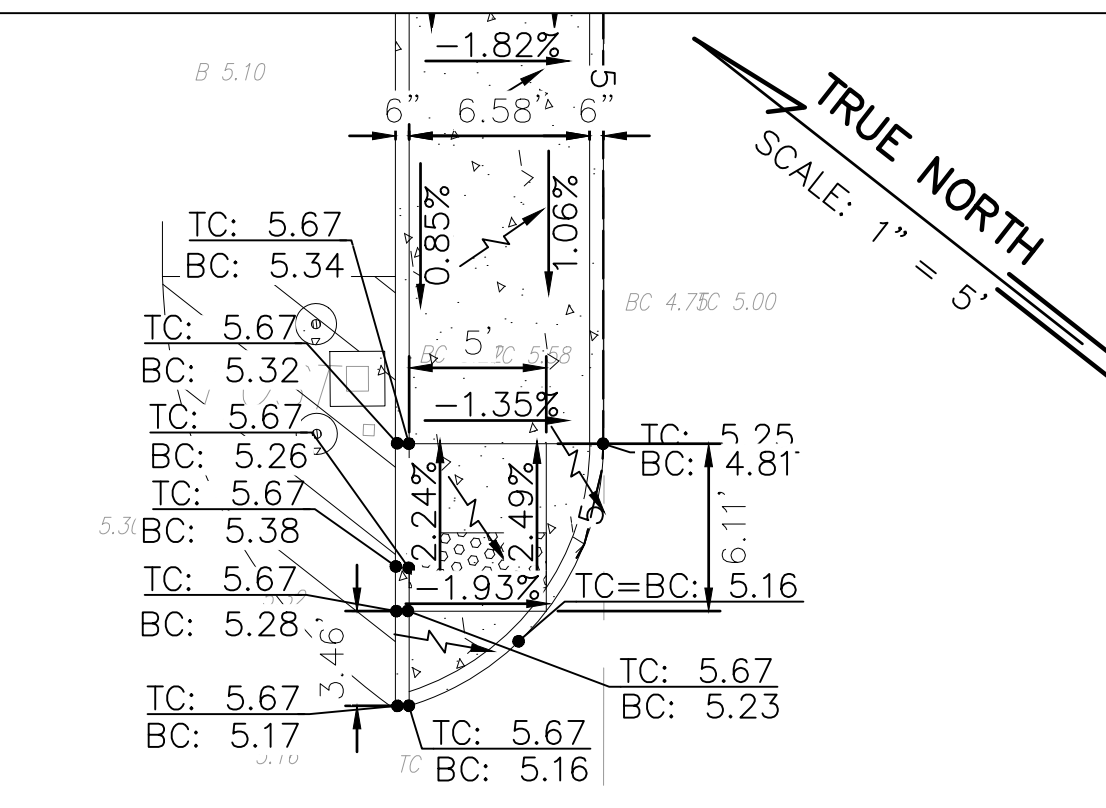


REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
GRADING PLAN 07					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			DATE		
			C-24		

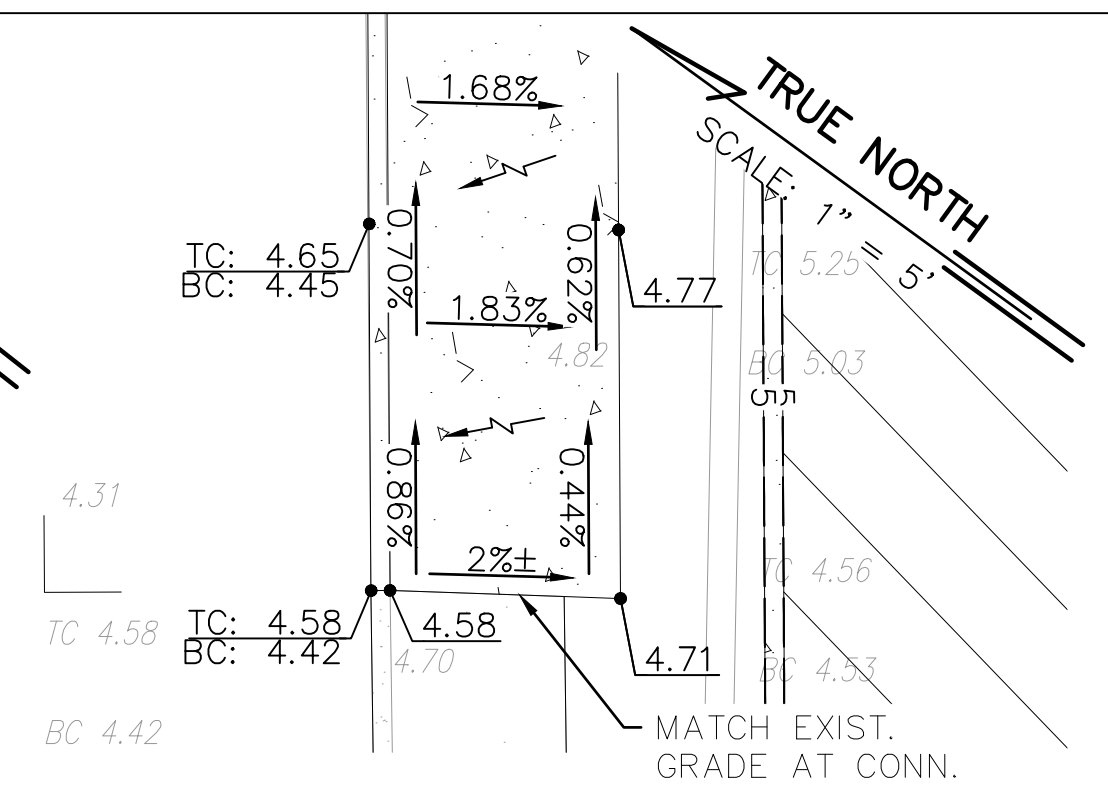
Last Save by: KJM
 Last Saved: 5/6/2026
 Plotted on: 5/7/2026
 g:\dhr2402 ala wai sbh paving\300 design\310 plans\DLNR2402 Grading Plan 4.dwg



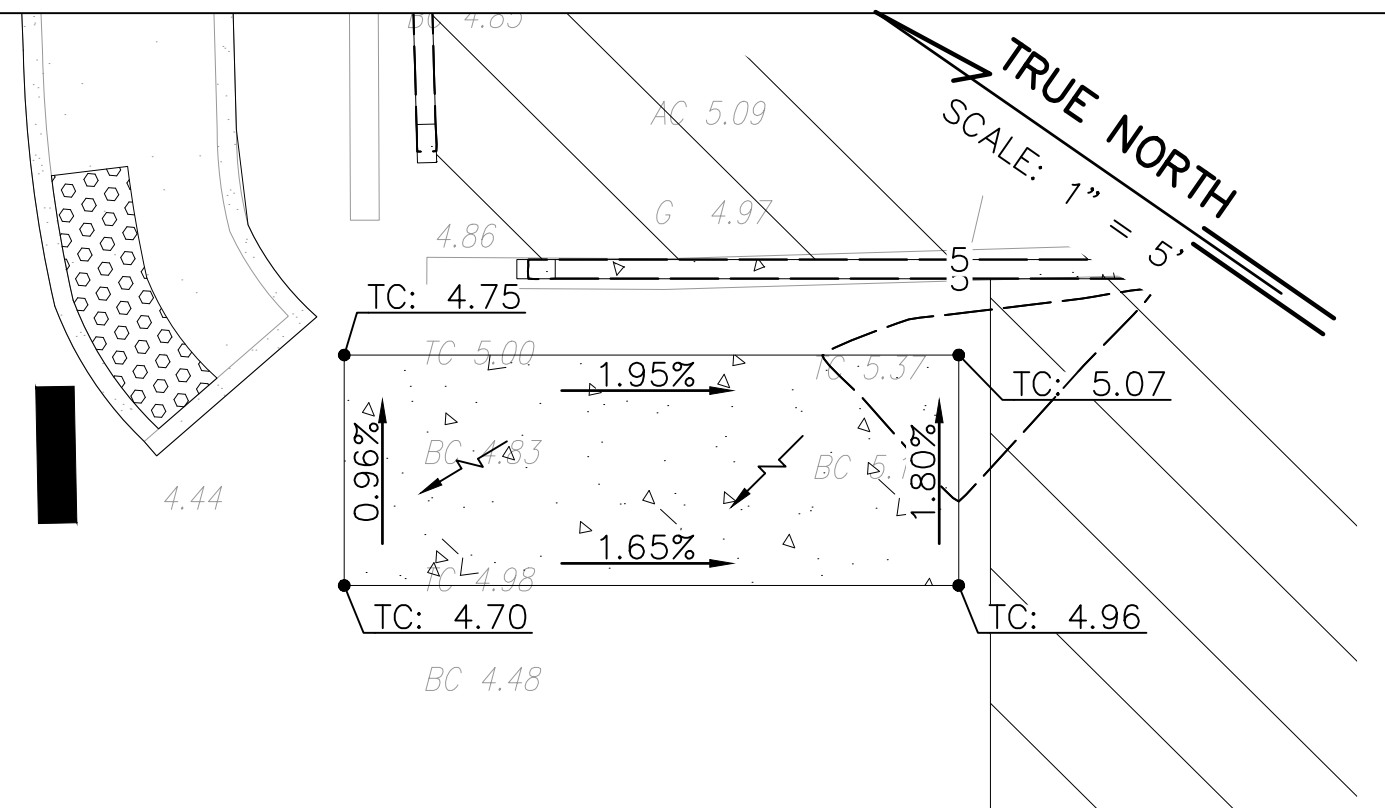
1 INSET 1 SHT C-19
C-26 SCALE: 1" = 5'-0"



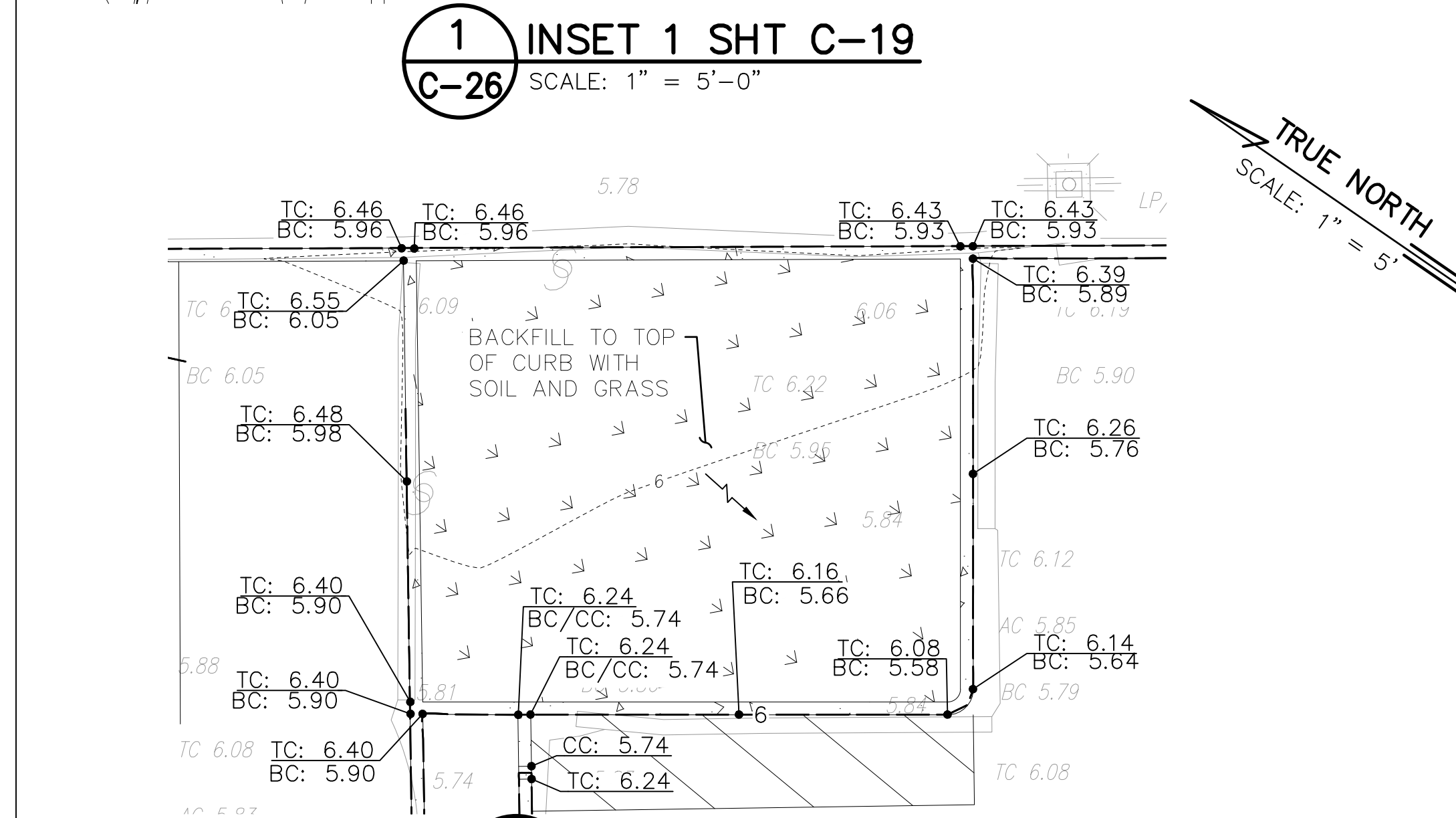
2 INSET 2 SHT C-19
C-26 SCALE: 1" = 5'-0"



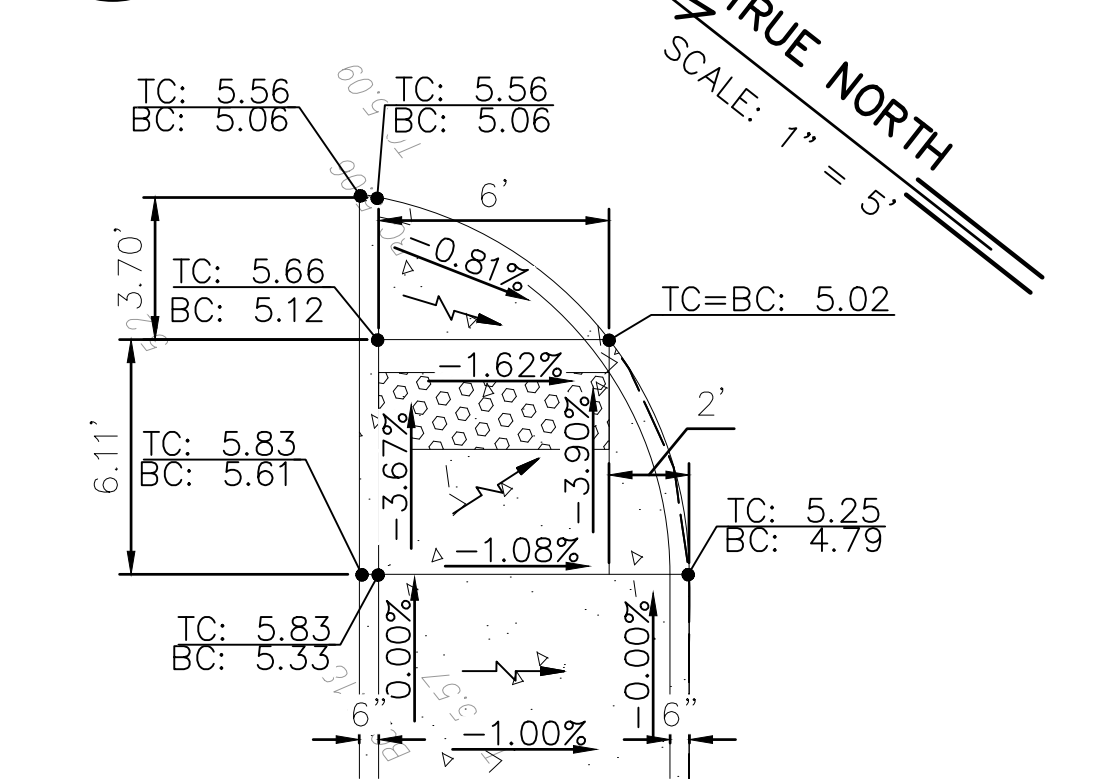
3 INSET 3 SHT C-19
C-26 SCALE: 1" = 5'-0"



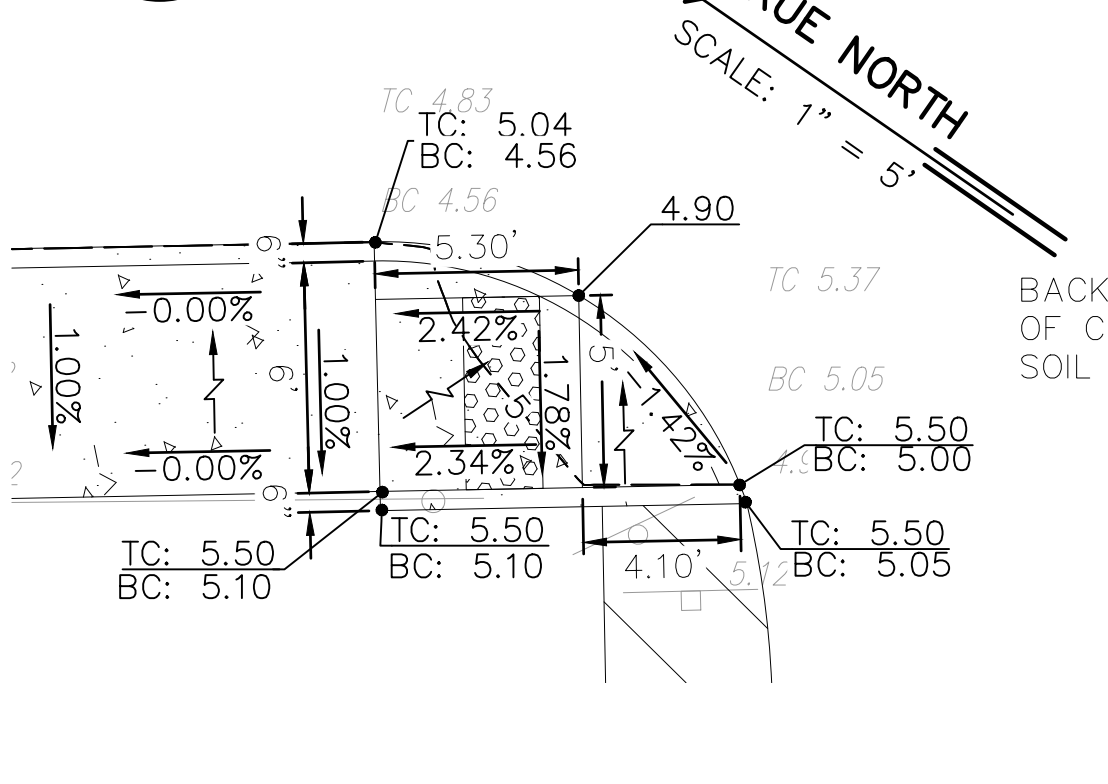
4 INSET 4 SHT C-19
C-26 SCALE: 1" = 5'-0"



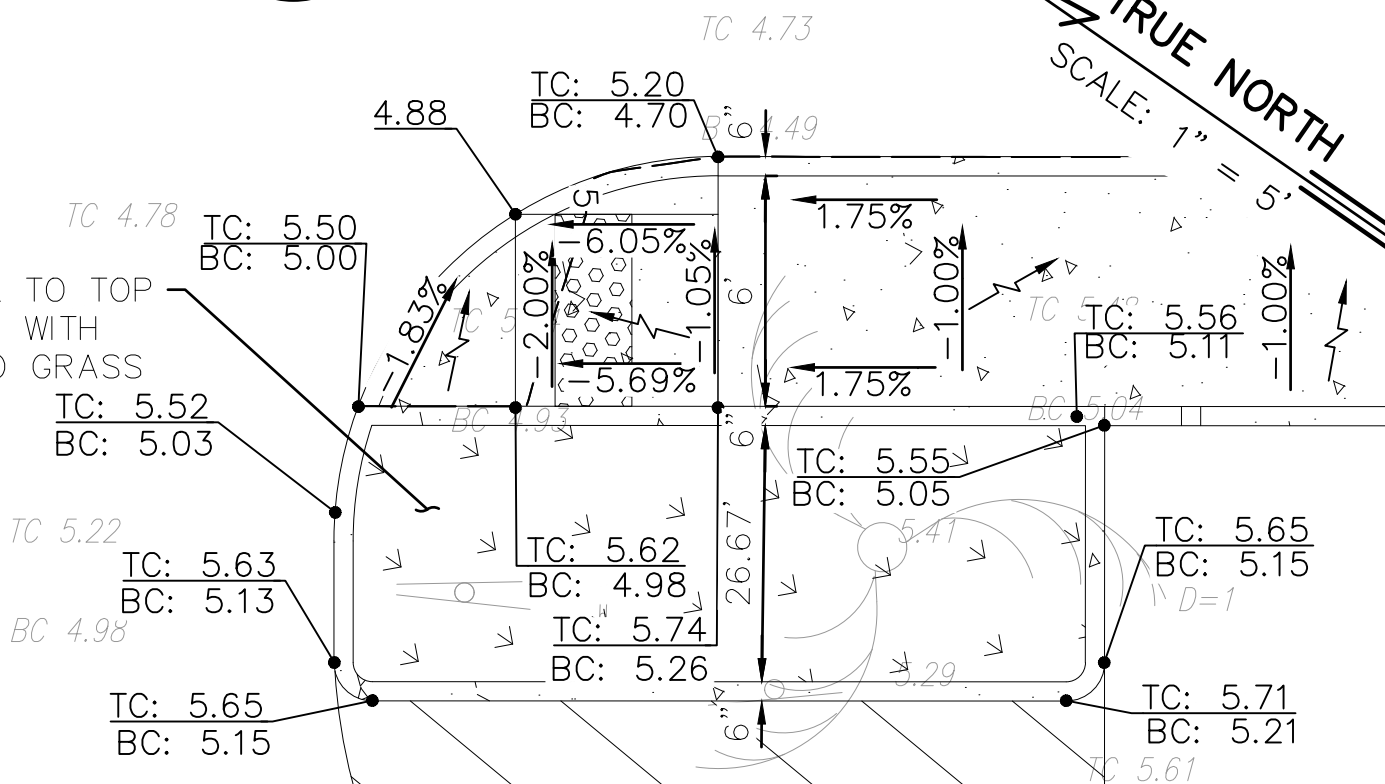
8 INSET 8 SHT C-19
C-26 SCALE: 1" = 5'-0"



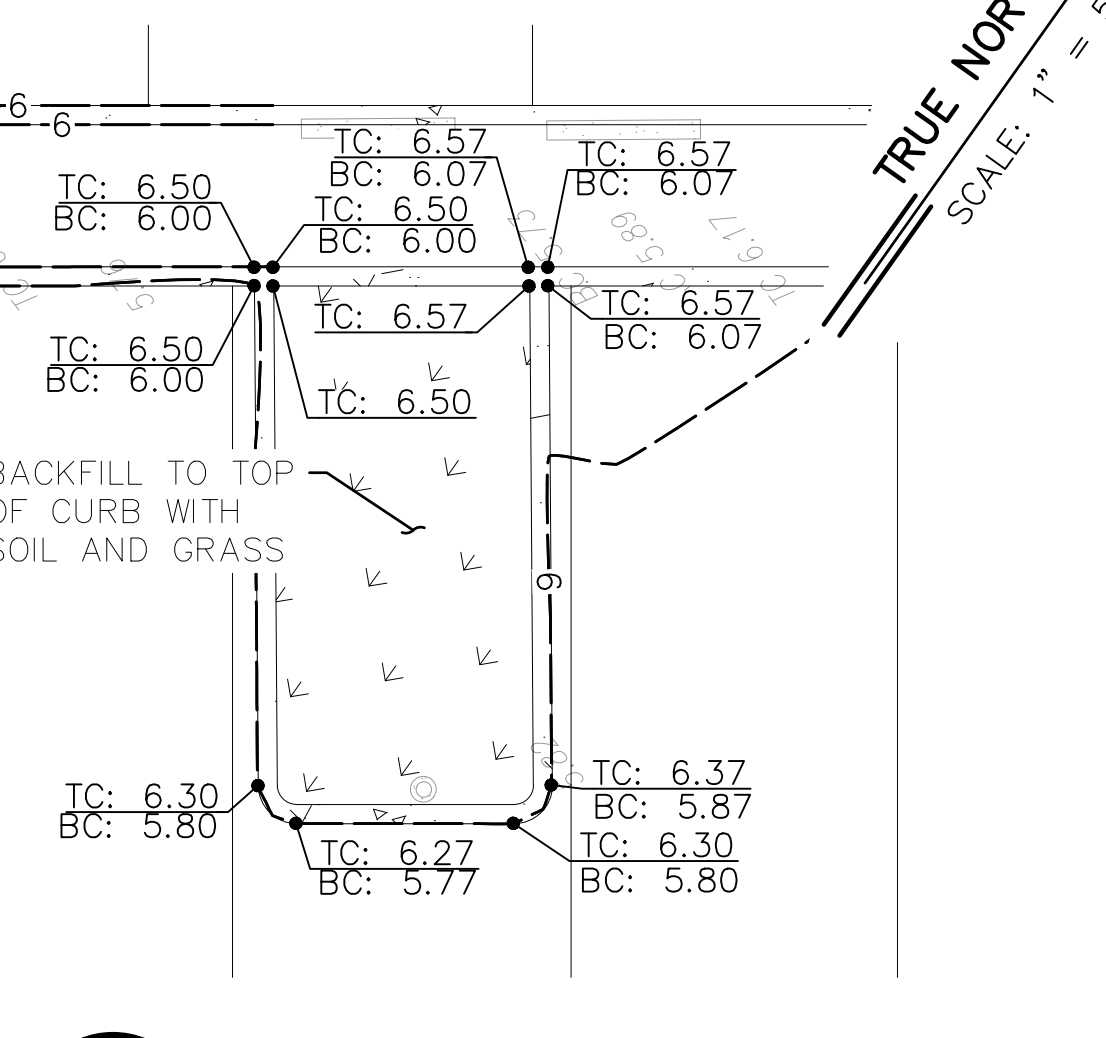
5 INSET 5 SHT C-19
C-26 SCALE: 1" = 5'-0"



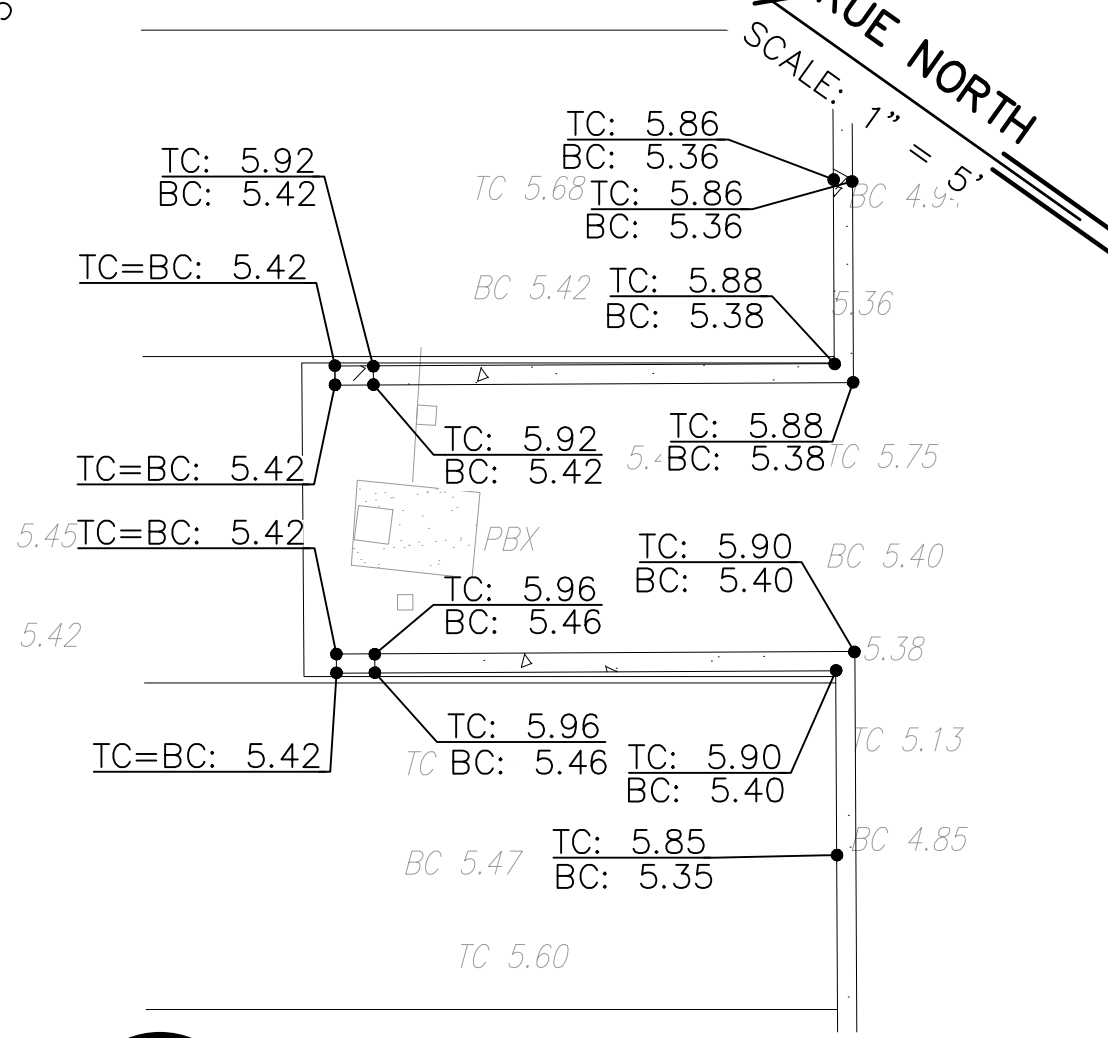
6 INSET 6 SHT C-19
C-26 SCALE: 1" = 5'-0"



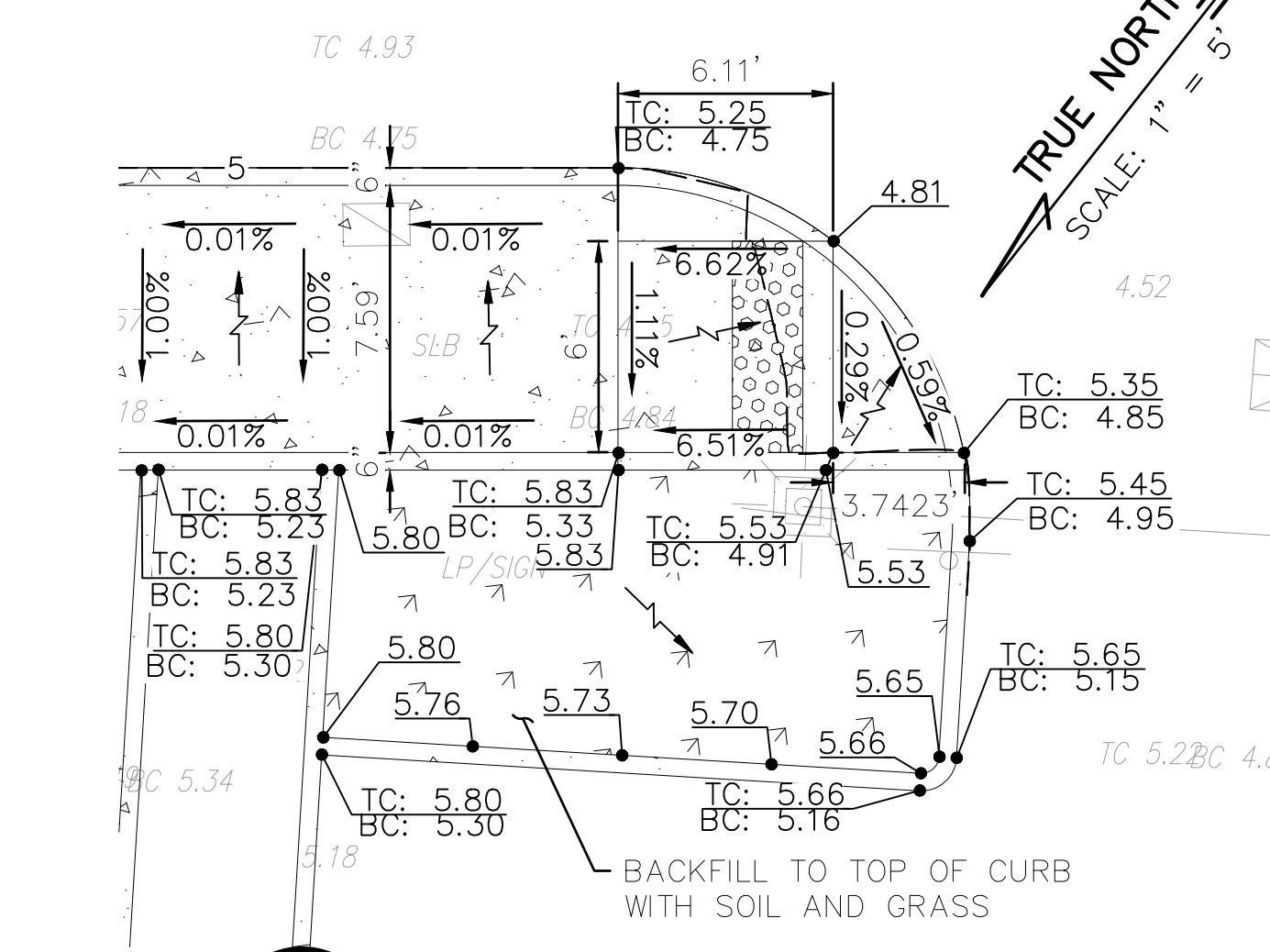
7 INSET 7 SHT C-19
C-26 SCALE: 1" = 5'-0"



9 INSET 9 SHT C-19
C-26 SCALE: 1" = 5'-0"

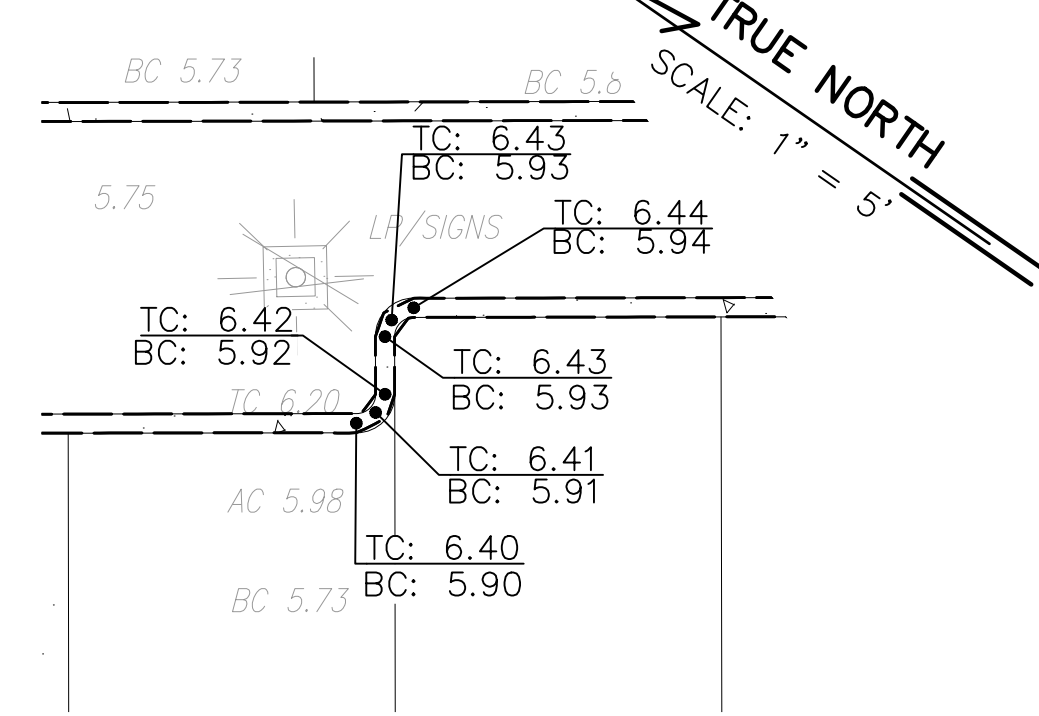


10 INSET 10 SHT C-19
C-26 SCALE: 1" = 5'-0"

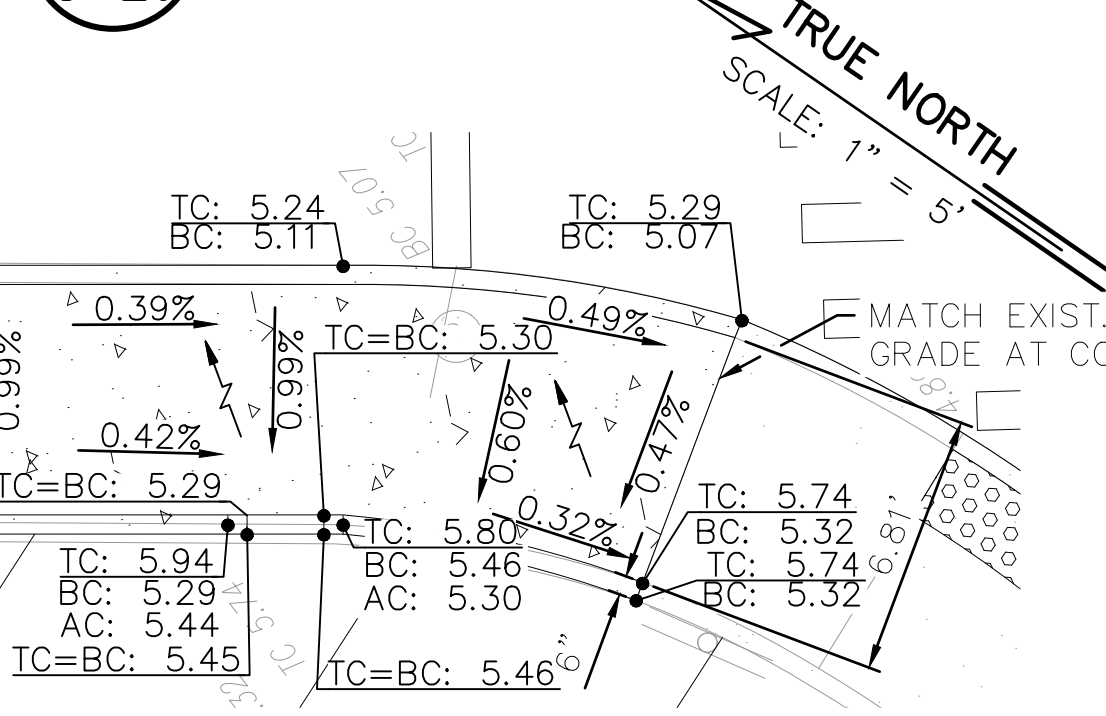


11 INSET 11 SHT C-19
C-26 SCALE: 1" = 5'-0"

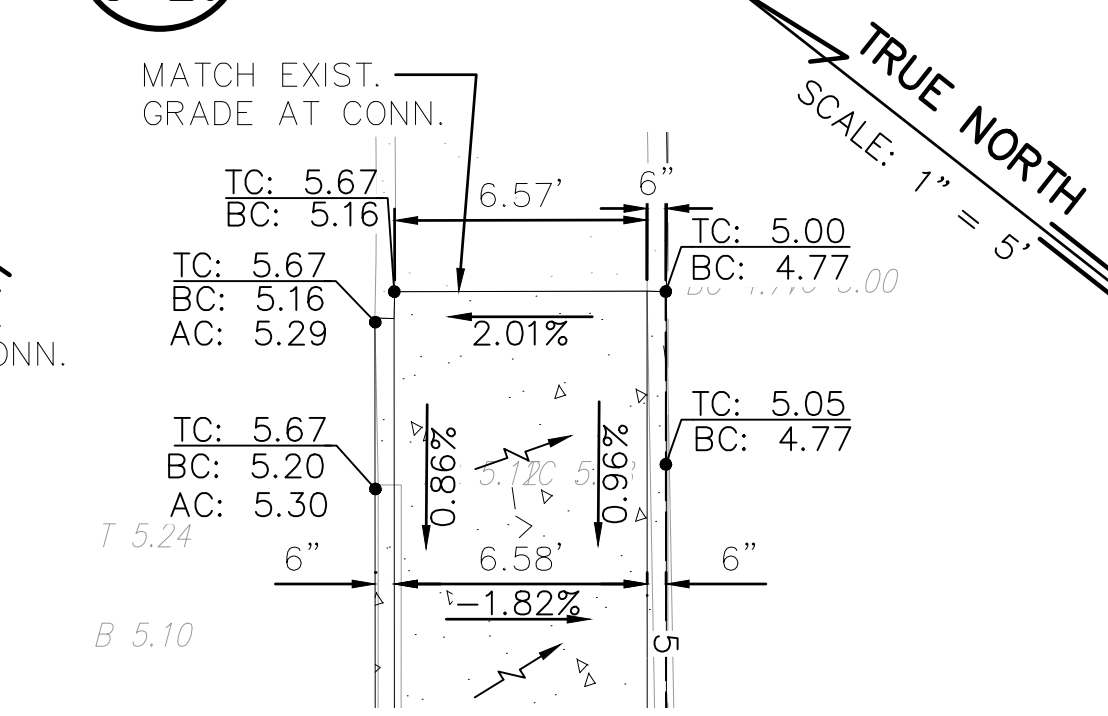
NOTES:
1. ALL WORK DAMAGED OR CAUSED TO BE DEFECTIVE BY THE CONSTRUCTION OPERATIONS AND WHICH IS NOT INDICATED TO BE REPLACED OR INCLUDED WITH NEW CONSTRUCTION SHALL BE COMPLETELY REPAIRED OR FILLED IN AS REQUIRED TO MATCH THE ADJACENT EXISTING SURFACE.



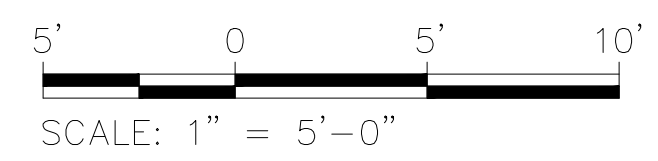
12 INSET 12 SHT C-19
C-26 SCALE: 1" = 5'-0"



13 INSET 13 SHT C-19
C-26 SCALE: 1" = 5'-0"

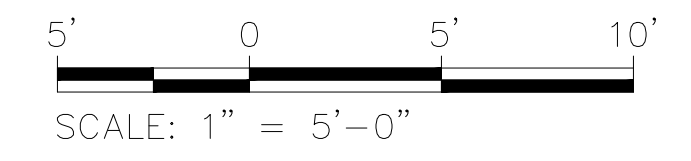
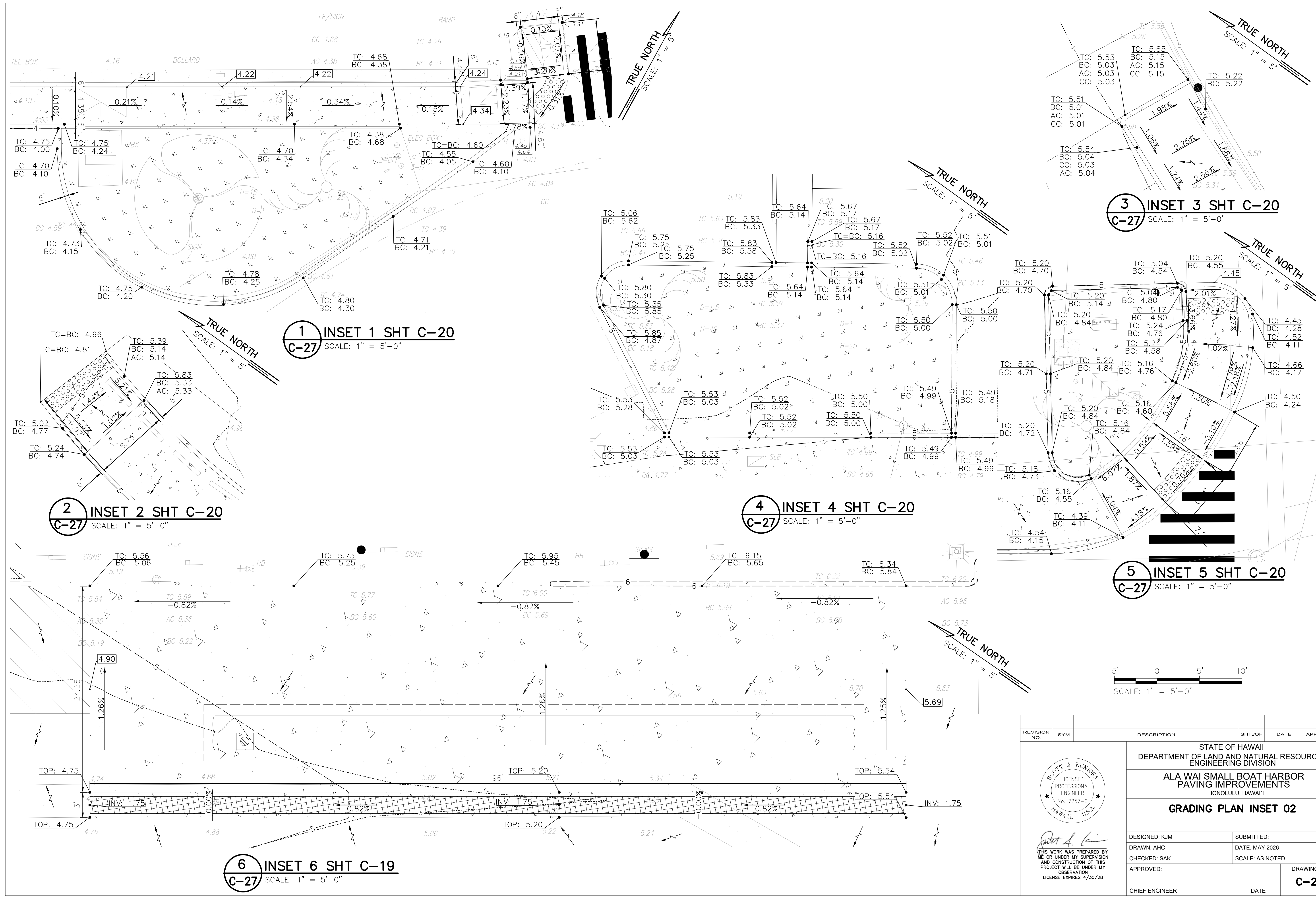


14 INSET 14 SHT C-19
C-26 SCALE: 1" = 5'-0"

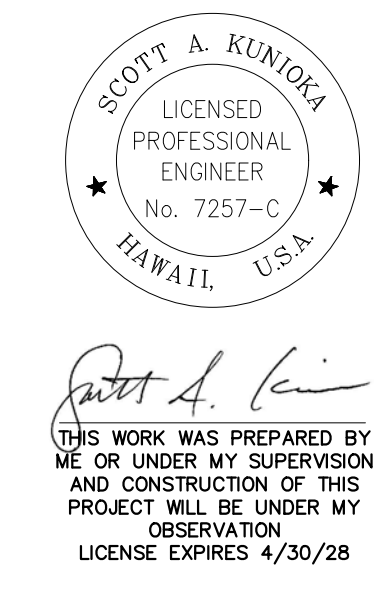


REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII GRADING PLAN INSET 01					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			C-26		

Last Save by: KJM
 Last Saved: 5/6/2026
 Plotted on: 5/7/2026
 g:\dhr2402 ala wai sbh paving\300 design\310 plans\DLNR2402 Grading Plan Enlarged Plan.dwg

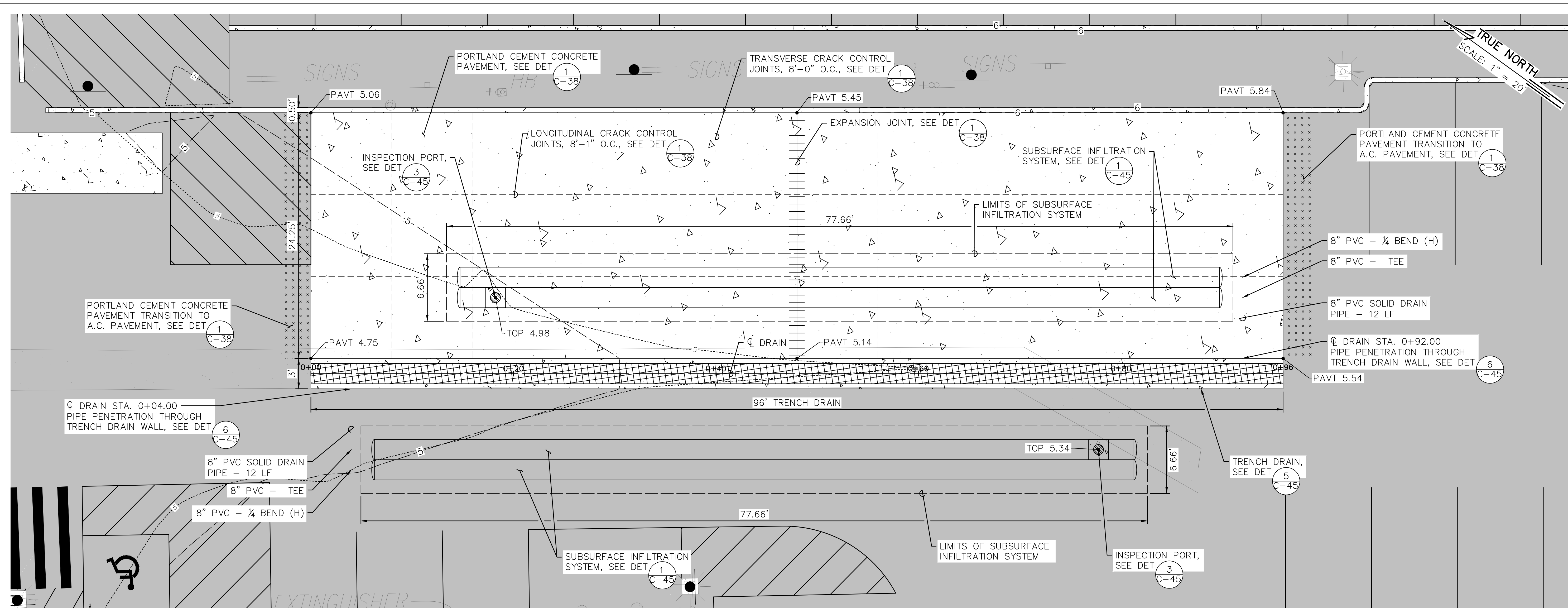


REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII GRADING PLAN INSET 02					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			C-27		



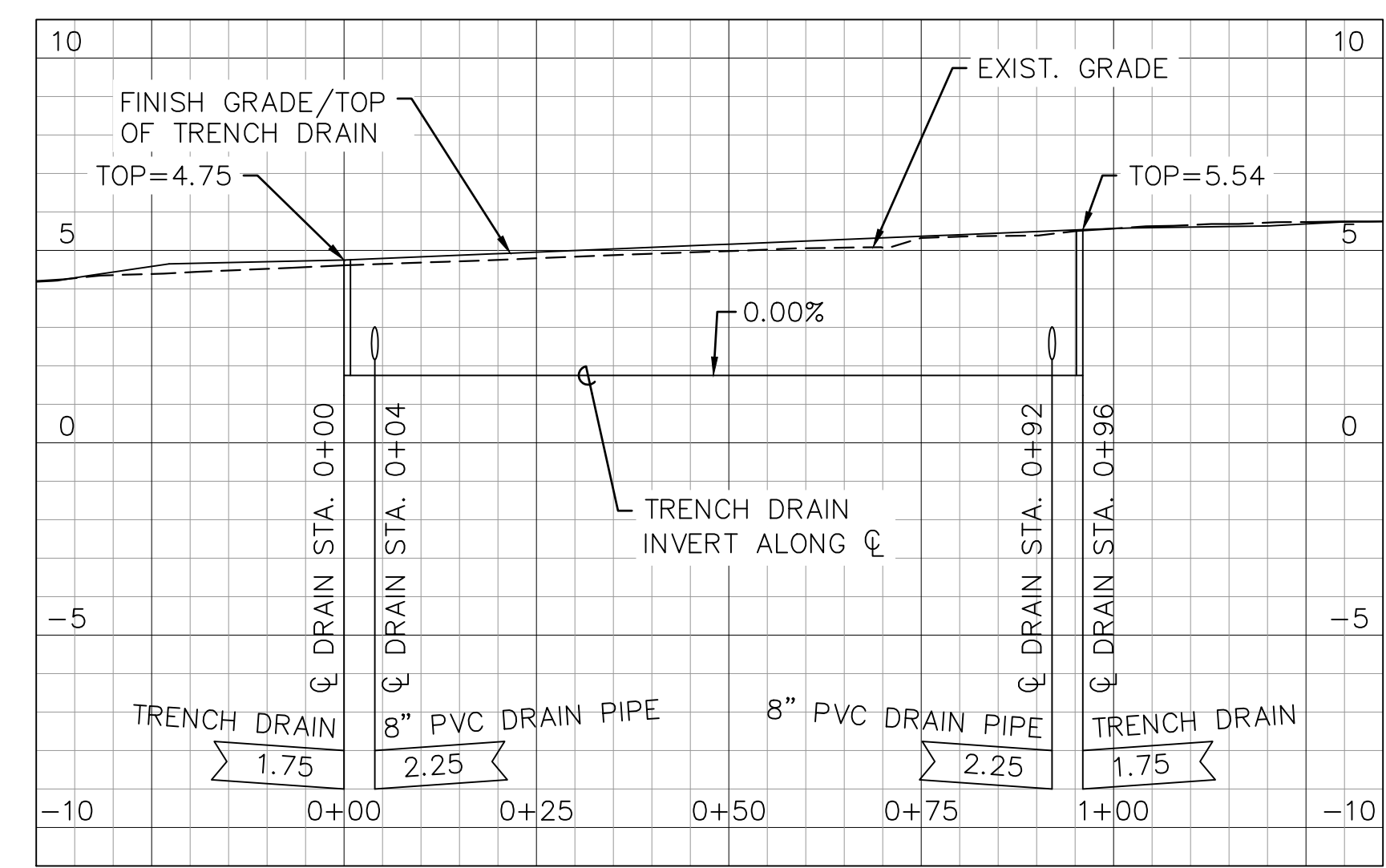
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. LICENSE EXPIRES 4/30/28

Last Save by: ACHEN
Last Saved: 5/7/2026
Plotted on: 5/7/2026
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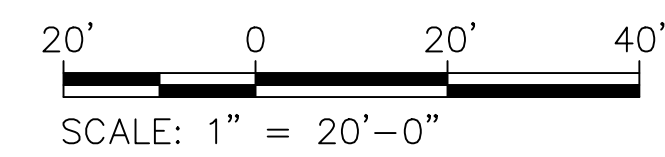
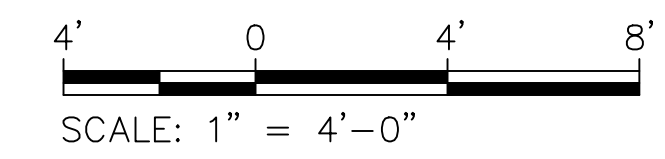
BOAT WASH PLAN

SCALE: 1" = 20'-0"






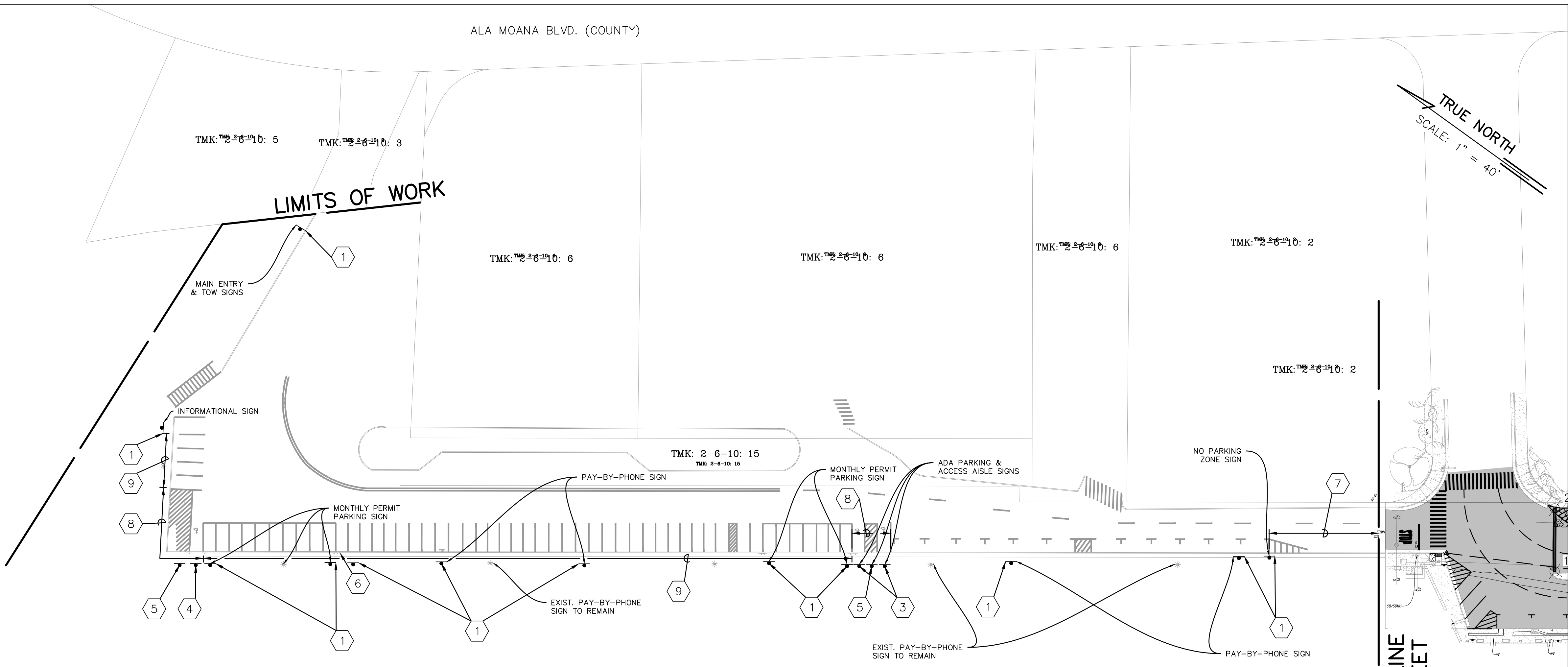
BOAT WASH DRAIN PROFILE

SCALE: HORIZ: 1" = 20'-0"
VERT: 1" = 4'-0"



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII BOAT WASH PLAN & PROFILE					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			C-28		
			DATE		

- 1 INSTALL NEW SURFACE-MOUNTED POST FOR SIGNS FURNISHED & INSTALLED BY OTHERS, SEE DET C-42
- 2 INSTALL NEW POST FOR SIGNS FURNISHED & INSTALLED BY OTHERS, SEE DET C-42
- 3  INSTALL R7-8 (12"x18") R7-201aP (12"x6") ON NEW POST.
- 4  INSTALL R7-8 (12"x18") R7-8aP (12"x6") R7-201aP (12"x6") ON NEW POST.
- 5  INSTALL ACCESS AISLE SIGN (SEE DET 7 SHT C-42) (12"x18") ON NEW POST.
- 6 REMOVE EXIST PARKING SIGN & POST
- 7 PAINT CURB RED
- 8 PAINT CURB BLUE
- 9 PAINT CURB YELLOW




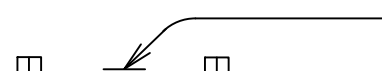
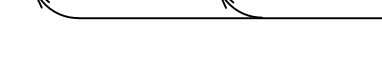
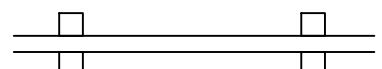
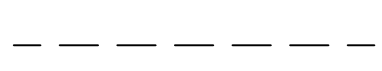
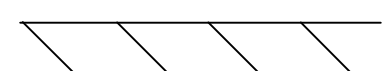
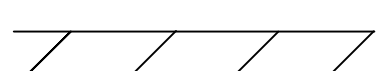
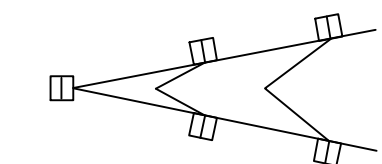





TRUE NORTH
SCALE: 1" = 40'

MATCH LINE
SEE SHEET
C-30

PAVEMENT MARKING AND SIGNING NOTES:

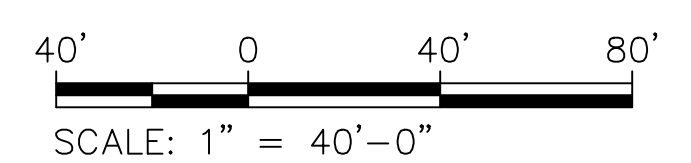
- ALL SIGN PANELS SHALL CONFORM TO THE SPECIFICATIONS AND THE LATEST EDITIONS AND AMENDMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD).
- THE CONTRACTOR SHALL BACKFILL ALL HOLES, DEPRESSIONS AND PITS LEFT BY THE REMOVAL OF THE EXISTING SIGNS WITH EMBANKMENT MATERIAL AND GRASS ALL AREAS EXPOSED OR REBUILT WITH THE NEW A.C. PAVEMENT SECTION.
- LAYOUT OF PAVEMENT MARKINGS AND STRIPING SHALL BE DONE BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO ANY INSTALLATION WORK.
- EXISTING PAVEMENT MARKINGS NOT INCORPORATED IN THE FINAL TRAFFIC PATTERN SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. THE COSTS SHALL BE INCIDENTAL TO THE VARIOUS PAVEMENT MARKING ITEMS.
- RAISED PAVEMENT MARKERS SHALL NOT BE INSTALLED WITHIN CROSSWALKS.
- FINAL LOCATIONS OF ALL SIGNS SHALL BE APPROVED BY THE ENGINEER PRIOR TO ANY INSTALLATION WORK.
- FINAL LOCATIONS OF ALL STOP & YIELD LINES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- ALL PAVEMENT STRIPING SHALL BE AS NOTED ON THE LEGEND OR PLANS.
- ALL PREFORMED PAVEMENT MARKING TAPES OVER EXISTING PAVEMENT SHALL BE APPLIED WITH AN APPROVED PRIMER AS RECOMMENDED BY THE TAPE'S MANUFACTURER AND AS APPROVED BY THE ENGINEER. THE PRIMER SHALL BE ALLOWED TO DRY TO THE TACKY STAGE PRIOR TO TAPE APPLICATION.
- EXISTING SIGNS THAT ARE TO BE REPLACED SHALL NOT BE REMOVED UNTIL NEW SIGNS ARE INSTALLED AS REPLACEMENTS, OR THE MESSAGES ARE NO LONGER NECESSARY.
- BACKING FOR ALL NEW REGULATORY AND WARNING SIGNS SHALL NOT BE SPLICED.
- ALL PAVEMENT LANE STRIPING, ARROWS, STOP AND YIELD LINES SHALL BE RETROREFLECTIVE THERMOPLASTIC COMPOUND PAVEMENT MARKINGS.
- ALL PARKING STALL MARKINGS AND TRANSVERSE STRIPING WITHIN DESIGNATED PARKING ZONES SHALL BE PAINTED.
- ALL TEMPORARY SIGNS SHALL BE MARKED ON THEIR BACK SIDE WITH THE CONTRACTOR'S NAME AND THE PROJECT NUMBER.

LEGEND:

-  8" WHITE STRIPE WITH TYPE C RAISED PAVEMENT MARKERS @ 20'-0" O.C. (THERMOPLASTIC)
-  10' WHITE PROFILED THERMOPLASTIC STRIPE
-  TYPE C RAISED PAVEMENT MARKERS @ 40'-0" O.C.
-  4" DOUBLE YELLOW THERMOPLASTIC STRIPE WITH 2 TYPE D RPM'S @ 10'-0" O.C.
-  4" THERMOPLASTIC WHITE GUIDE LINE
-  TRANSVERSE MEDIAN MARKING (THERMOPLASTIC)
-  TRANSVERSE SHOULDER MARKING (THERMOPLASTIC)
-  CHANNELIZING ISLAND GORE (THERMOPLASTIC)
-  NEW REFLECTIVE MARKER (RM-3) ON FLEXIBLE POST
-  NEW SIGN/SIGN POST
-  TYPE D RAISED PAVEMENT MARKER
-  TYPE C RAISED PAVEMENT MARKER
-  TYPE F RAISED PAVEMENT MARKER

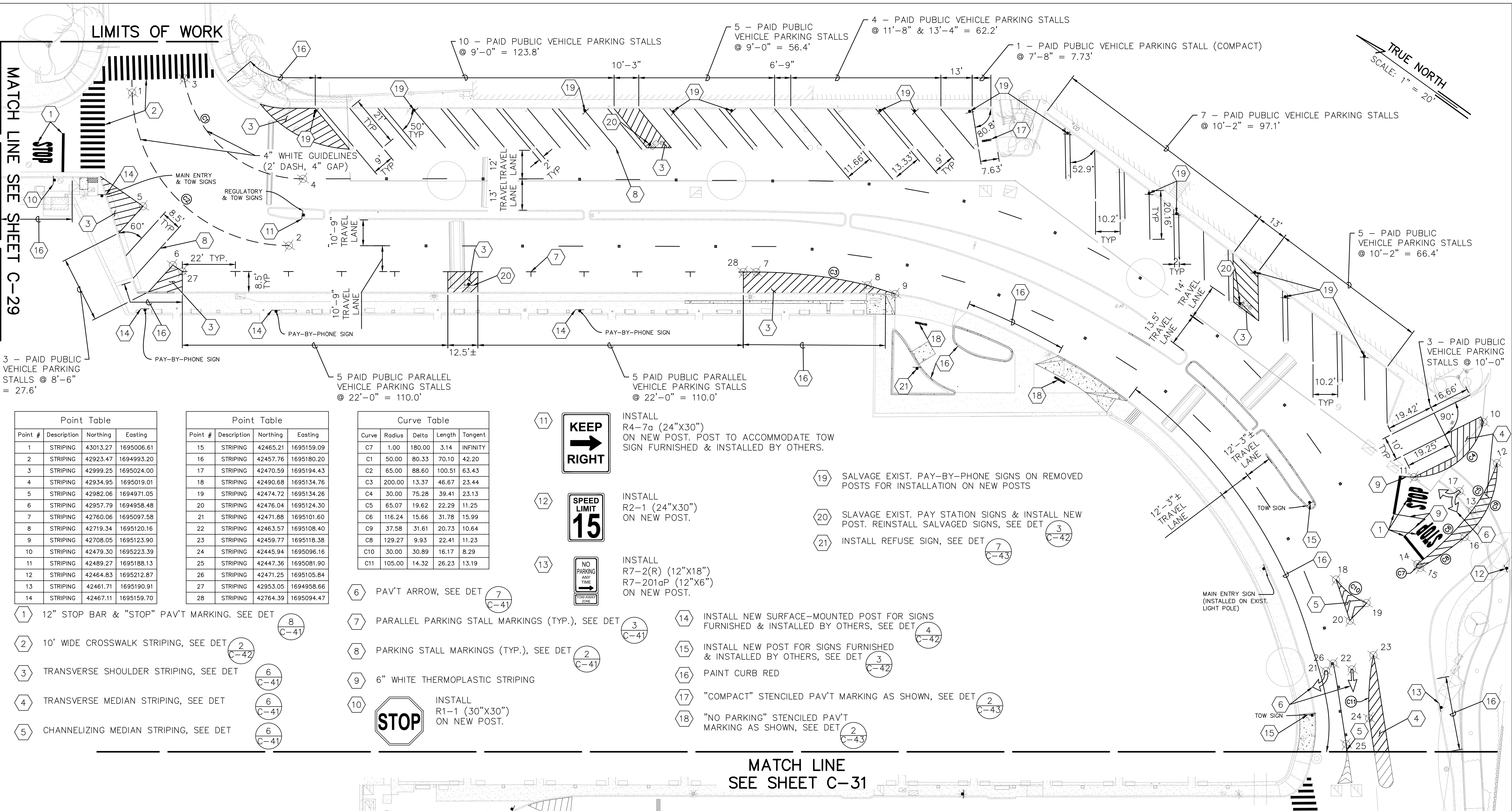
STRIPING PLAN 01

SCALE: 1" = 40'-0"



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
STRIPING PLAN 01					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			C-29		

Last Save by: ACHEN
 Last Saved: 5/7/2026
 Plotted on: 5/7/2026
 g:\dhr2402_ala_wai_sbh_paving\300
 design\310_plans\DLNR2402 Stripping Plan
 0.dwg



Point Table			
Point #	Description	Northing	Easting
1	STRIPING	43013.27	1695006.61
2	STRIPING	42923.47	1694993.20
3	STRIPING	42999.25	1695024.00
4	STRIPING	42934.95	1695019.01
5	STRIPING	42982.06	1694971.05
6	STRIPING	42957.79	1694958.48
7	STRIPING	42766.06	1695097.58
8	STRIPING	42719.34	1695120.16
9	STRIPING	42708.05	1695123.90
10	STRIPING	42479.30	1695223.39
11	STRIPING	42489.27	1695188.13
12	STRIPING	42464.83	1695212.87
13	STRIPING	42461.71	1695190.91
14	STRIPING	42467.11	1695159.70

Point Table			
Point #	Description	Northing	Easting
15	STRIPING	42465.21	1695159.09
16	STRIPING	42457.76	1695180.20
17	STRIPING	42470.59	1695194.43
18	STRIPING	42490.68	1695134.76
19	STRIPING	42474.72	1695134.26
20	STRIPING	42476.04	1695124.30
21	STRIPING	42471.88	1695101.60
22	STRIPING	42463.57	1695108.40
23	STRIPING	42459.77	1695118.38
24	STRIPING	42445.94	1695096.16
25	STRIPING	42447.36	1695081.90
26	STRIPING	42471.25	1695105.84
27	STRIPING	42953.05	1694958.66
28	STRIPING	42764.39	1695094.47

Curve Table				
Curve	Radius	Delta	Length	Tangent
C7	1.00	180.00	3.14	INFINITY
C1	50.00	80.33	70.10	42.20
C2	65.00	88.60	100.51	63.43
C3	200.00	13.37	46.67	23.44
C4	30.00	75.28	39.41	23.13
C5	65.07	19.62	22.29	11.25
C6	116.24	15.66	31.78	15.99
C9	37.58	31.61	20.73	10.64
C8	129.27	9.93	22.41	11.23
C10	30.00	30.89	16.17	8.29
C11	105.00	14.32	26.23	13.19

- 1 12" STOP BAR & "STOP" PAV'T MARKING. SEE DET C-41
- 2 10' WIDE CROSSWALK STRIPING, SEE DET C-42
- 3 TRANSVERSE SHOULDER STRIPING, SEE DET C-41
- 4 TRANSVERSE MEDIAN STRIPING, SEE DET C-41
- 5 CHANNELIZING MEDIAN STRIPING, SEE DET C-41
- 6 PAV'T ARROW, SEE DET C-41
- 7 PARALLEL PARKING STALL MARKINGS (TYP.), SEE DET C-41
- 8 PARKING STALL MARKINGS (TYP.), SEE DET C-41
- 9 6" WHITE THERMOPLASTIC STRIPING
- 10 INSTALL R1-1 (30"X30") ON NEW POST.

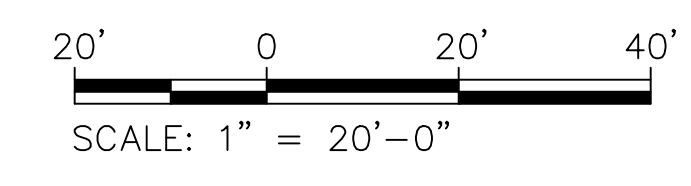
- 11 KEEP RIGHT
- 12 SPEED LIMIT 15
- 13 NO PARKING ANY TIME
- 14 INSTALL NEW SURFACE-MOUNTED POST FOR SIGNS FURNISHED & INSTALLED BY OTHERS, SEE DET C-42
- 15 INSTALL NEW POST FOR SIGNS FURNISHED & INSTALLED BY OTHERS, SEE DET C-42
- 16 PAINT CURB RED
- 17 "COMPACT" STENCILED PAV'T MARKING AS SHOWN, SEE DET C-43
- 18 "NO PARKING" STENCILED PAV'T MARKING AS SHOWN, SEE DET C-43
- 19 SALVAGE EXIST. PAY-BY-PHONE SIGNS ON REMOVED POSTS FOR INSTALLATION ON NEW POSTS
- 20 SLAVAGE EXIST. PAY STATION SIGNS & INSTALL NEW POST. REINSTALL SALVAGED SIGNS, SEE DET C-42
- 21 INSTALL REFUSE SIGN, SEE DET C-43

NOTES:

- STALL COUNT:
 TOTAL STANDARD VEHICLE PARKING STALLS: 48
 PERMIT ONLY STALLS: 0
 RECREATIONAL PUBLIC STALLS: 0
 PAID PUBLIC STALLS: 48
 TOTAL ADA ACCESSIBLE VEHICLE PARKING STALLS: 0

STRIPING PLAN 02

SCALE: 1" = 20'-0"

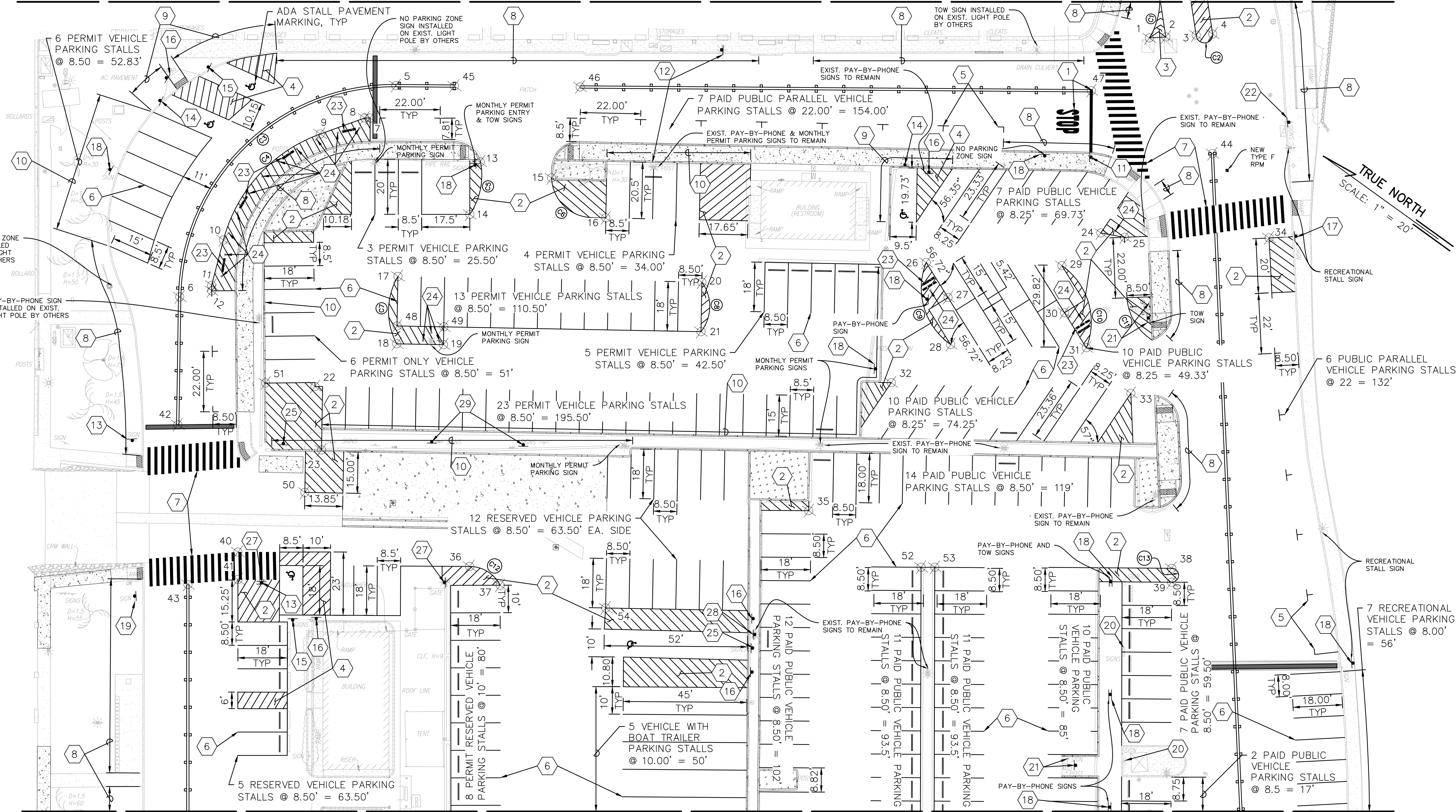


REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
STRIPING PLAN 02					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			C-30		

MATCH LINE SEE SHEET C-30

Point Table			
Point #	Description	Northing	Eastng
1	STRIPING	42440.68	1695066.56
2	STRIPING	42436.03	1695070.36
3	STRIPING	42427.48	1695077.35
4	STRIPING	42422.81	1695081.16
5	STRIPING	42652.69	1694892.26
6	STRIPING	42671.46	1694784.01
7	STRIPING	42653.35	1694877.26
8	STRIPING	42654.98	1694876.09
9	STRIPING	42664.67	1694861.91
10	STRIPING	42670.66	1694810.08
11	STRIPING	42664.51	1694794.22
12	STRIPING	42663.33	1694792.61
13	STRIPING	42611.57	1694887.71
14	STRIPING	42603.48	1694870.03
15	STRIPING	42587.14	1694898.16
16	STRIPING	42562.64	1694897.93
17	STRIPING	42611.47	1694836.46
18	STRIPING	42597.50	1694816.33
19	STRIPING	42583.53	1694826.01
20	STRIPING	42520.66	1694899.43
21	STRIPING	42510.41	1694884.64
22	STRIPING	42612.51	1694786.36
23	STRIPING	42597.09	1694769.02
24	STRIPING	42413.50	1694998.74
25	STRIPING	42405.63	1695002.51
26	STRIPING	42458.70	1694952.92
27	STRIPING	42444.82	1694947.23
28	STRIPING	42434.06	1694933.92
29	STRIPING	42418.02	1694980.84
30	STRIPING	42407.26	1694967.52
31	STRIPING	42393.38	1694961.84
32	STRIPING	42443.44	1694910.06
33	STRIPING	42370.52	1694957.87
34	STRIPING	42362.85	1695033.06
35	STRIPING	42440.54	1694854.76
36	STRIPING	42528.65	1694766.22
37	STRIPING	42515.66	1694767.15
38	STRIPING	42321.31	1694914.97
39	STRIPING	42318.37	1694910.83
40	STRIPING	42600.02	1694721.17
41	STRIPING	42594.17	1694713.04
42	STRIPING	42644.84	1694745.90
43	STRIPING	42607.87	1694700.96
44	STRIPING	42397.47	1695045.88
45	STRIPING	42635.35	1694904.58
46	STRIPING	42598.07	1694931.06
47	STRIPING	42446.55	1695038.69
48	STRIPING	42601.21	1694821.67
49	STRIPING	42587.24	1694831.36
50	STRIPING	42593.00	1694753.00
51	STRIPING	42627.83	1694776.87
52	STRIPING	42395.40	1694861.97
53	STRIPING	42391.34	1694864.89
54	STRIPING	42479.73	1694782.87

Curve Table				
Curve	Radius	Delta	Length	Tangent
C1	25.00	39.09	17.06	8.87
C2	3.01	180.00	9.46	INFINITY
C3	78.00	89.55	121.91	77.39
C4	56.00	55.53	54.28	29.48
C5	25.34	46.14	20.40	10.79
C6	15.00	86.59	22.67	14.13
C7	25.00	58.70	25.61	14.06
C8	15.00	73.74	19.31	11.25
C9	25.00	76.96	33.58	19.87
C10	25.00	76.96	33.58	19.87
C11	20.00	53.29	18.60	10.03
C12	12.50	62.78	13.69	7.62
C13	2.54	180.00	7.97	INFINITY



MATCH LINE SEE SHEET C-33

MATCH LINE SEE SHEET C-32

- 1 12" STOP BAR & "STOP" PAV'T MARKING. SEE DET C-41
- 2 TRANSVERSE MEDIAN STRIPING, SEE DET C-41
- 3 CHANNELIZING MEDIAN STRIPING, SEE DET C-41
- 4 TRANSVERSE ACCESS AISLE STRIPING, SEE DET C-41
- 5 PARALLEL PARKING STALL MARKINGS (TYP.), SEE DET C-41
- 6 PARKING STALL MARKINGS (TYP.), SEE DET C-41
- 7 10' WIDE CROSSWALK STRIPING, SEE DET C-42
- 8 PAINT CURB RED
- 9 PAINT CURB BLUE
- 10 PAINT CURB YELLOW
- 11 INSTALL R1-1 STOP SIGN 30"x30" ON NEW POST.
- 12 INSTALL R2-1(15) SPEED LIMIT SIGN 24"x30" ON EXIST. LIGHT POLE.
- 13 INSTALL "BOAT AND TRAILER CROSSING" CUSTOM WARNING SIGN 30"x30" ON NEW POST. SEE DET 3 SHT C-43.
- 14 INSTALL R7-8 ACCESSIBLE PARKING (12"x18") & R7-201aP "TOW-AWAY ZONE" (12"x6") ON NEW POST.
- 15 INSTALL R7-8 ACCESSIBLE PARKING (12"x18"), R7-8aP "VAN ACCESSIBLE" (12"x6") & R7-201aP "TOW-AWAY ZONE" (12"x6") ON NEW POST.

- 16 INSTALL ACCESS AISLE SIGN (SEE DET 7 SHT C-42) 12"x18" ON NEW POST.
- 17 INSTALL NEW SURFACE-MOUNTED POST FOR SIGNS FURNISHED & INSTALLED BY OTHERS, SEE DET C-42
- 18 INSTALL NEW POST FOR SIGNS FURNISHED & INSTALLED BY OTHERS, SEE DET C-42
- 19 INSTALL LOADING SIGN, SEE DET 6 SHT C-43.
- 20 SALVAGE EXIST. PAY-BY-PHONE SIGNS ON REMOVED POSTS FOR INSTALLATION ON NEW POSTS.
- 21 SALVAGE EXIST. PAY STATION SIGNS & INSTALL NEW POST. REINSTALL SALVAGED SIGNS, SEE DET C-42
- 22 INSTALL R7-2(L) NO PARKING (12"x18") & R7-201aP (12"x6") ON NEW POST.
- 23 "NO PARKING" & "TOW-AWAY ZONE" STENCILED PAV'T MARKINGS AS SHOWN, SEE DET C-43
- 24 YELLOW REFLECTIVE FLEXIBLE POST, SEE DET C-43
- 25 INSTALL REFUSE SIGN, SEE DET 7 SHT C-43.
- 26 INSTALL R7-8 ACCESSIBLE PARKING (12"x18"), "BOAT TRAILER ACCESSIBLE" (12"x6" SEE DET 5 SHT C-43) & R7-201aP "TOW-AWAY ZONE" (12"x6") ON NEW POST.
- 27 INSTALL RESERVED PARKING SIGN, SEE DET 1 SHT C-44.
- 28 INSTALL BOAT & TRAILER PARKING SIGN, SEE DET 6 SHT C-42.

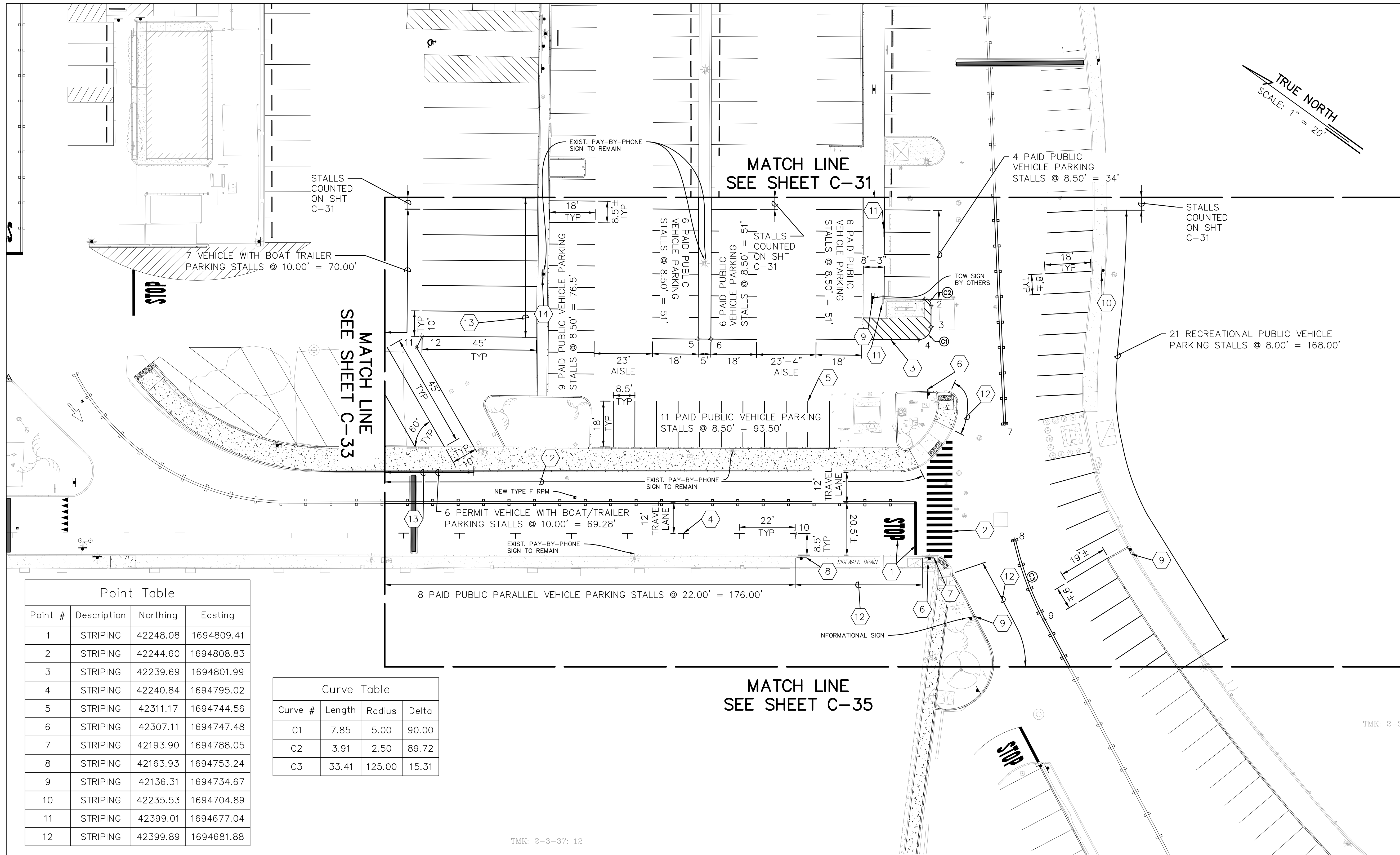
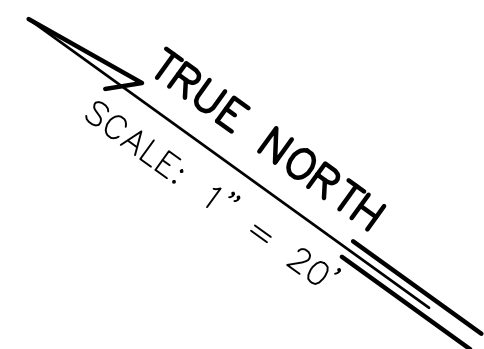
NOTES:

- STALL COUNT:
 TOTAL STANDARD VEHICLE PARKING STALLS: 204
 PERMIT ONLY STALLS: 60
 RESERVED STALLS: 28
 RECREATIONAL PUBLIC STALLS: 13
 PAID PUBLIC STALLS: 103
 TOTAL ADA ACCESSIBLE VEHICLE PARKING STALLS: 4
 TOTAL VEHICLES WITH BOAT TRAILER STALLS: 5
 TOTAL ADA ACCESSIBLE BOAT TRAILER STALLS: 1

STRIPING PLAN 03
SCALE: 1" = 20'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
STRIPING PLAN 03					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			C-31		

Last Save by: ACHEN
Last Saved: 5/7/2026
Plotted on: 5/7/2026
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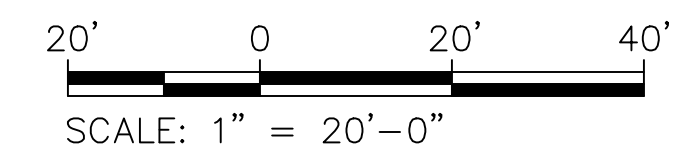


Point Table

Point #	Description	Northing	Easting
1	STRIPING	42248.08	1694809.41
2	STRIPING	42244.60	1694808.83
3	STRIPING	42239.69	1694801.99
4	STRIPING	42240.84	1694795.02
5	STRIPING	42311.17	1694744.56
6	STRIPING	42307.11	1694747.48
7	STRIPING	42193.90	1694788.05
8	STRIPING	42163.93	1694753.24
9	STRIPING	42136.31	1694734.67
10	STRIPING	42235.53	1694704.89
11	STRIPING	42399.01	1694677.04
12	STRIPING	42399.89	1694681.88

Curve Table

Curve #	Length	Radius	Delta
C1	7.85	5.00	90.00
C2	3.91	2.50	89.72
C3	33.41	125.00	15.31



NOTES:

- STALL COUNT:
 TOTAL STANDARD VEHICLE PARKING STALLS: 71
 PERMIT ONLY STALLS: 0
 RESERVED STALLS: 0
 RECREATIONAL PUBLIC STALLS: 21
 PAID PUBLIC STALLS: 50
 TOTAL ADA ACCESSIBLE VEHICLE PARKING STALLS: 0
 TOTAL VEHICLES WITH BOAT TRAILER STALLS: 7

- 1) 12" STOP BAR & "STOP" PAV'T MARKING. SEE DET 8 C-41
- 2) 10' WIDE CROSSWALK STRIPING, SEE DET 2 C-42
- 3) TRANSVERSE MEDIAN STRIPING, SEE DET 6 C-41
- 4) PARALLEL PARKING STALL MARKINGS (TYP.), SEE DET 3 C-41
- 5) PARKING STALL MARKINGS (TYP.), SEE DET 2 C-41
- 6) INSTALL R1-1 (30"x30") ON EXIST. LIGHT POLE OR NEW POST (MATCH EXIST. CONDITION)

- 7) INSTALL R7-2(R) (12"x18") R7-201aP (12"x6") ON EXIST. LIGHT POLE.
- 8) INSTALL R7-2(L) (12"x18") R7-201aP (12"x6") ON NEW POST.
- 9) INSTALL NEW POST FOR SIGNS FURNISHED & INSTALLED BY OTHERS, SEE DET 3 C-42
- 10) INSTALL NEW SURFACE-MOUNTED POST FOR SIGNS FURNISHED & INSTALLED BY OTHERS, SEE DET 4 C-42
- 11) SALVAGE EXIST. PAY-BY-PHONE SIGNS ON REMOVED POSTS FOR INSTALLATION ON NEW POSTS.
- 12) PAINT CURB RED
- 13) PAINT CURB YELLOW
- 14) INSTALL BOAT & TRAILER PARKING SIGN, SEE DET 6 SHT C-42.

STRIPING PLAN 04
SCALE: 1" = 20'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED

SCOTT A. KUNIOKA
LICENSED PROFESSIONAL ENGINEER
No. 7257-C
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION

**ALA WAI SMALL BOAT HARBOR
PAVING IMPROVEMENTS**
HONOLULU, HAWAII

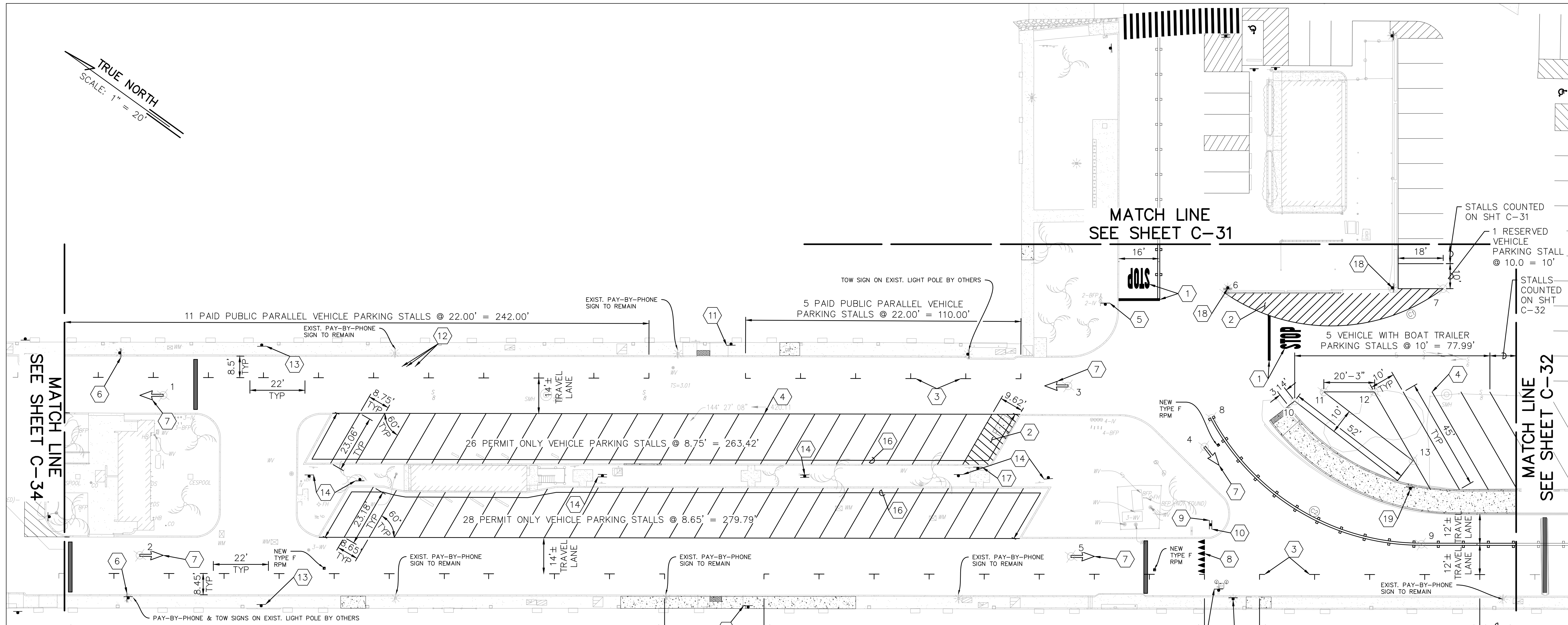
STRIPING PLAN 04

DESIGNED: KJM	SUBMITTED:
DRAWN: AHC	DATE: MAY 2026
CHECKED: SAK	SCALE: AS NOTED
APPROVED:	DRAWING NO.
CHIEF ENGINEER	C-32

Last Save by: ACHEN
 Last Saved: 5/7/2026
 Plotted on: 5/7/2026
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TRUE NORTH
SCALE: 1" = 20'

JOB NO. B71C075A ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS



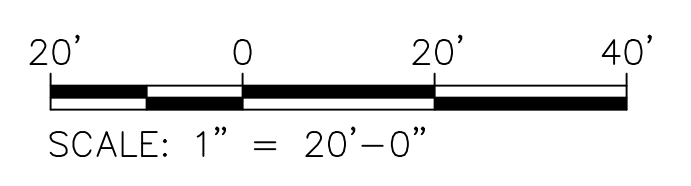
Point #	Description	Northing	Easting
1	STRIPING	42846.87	1694352.38
2	STRIPING	42817.04	1694295.06
3	STRIPING	42555.86	1694566.91
4	STRIPING	42497.36	1694579.09
5	STRIPING	42515.06	1694512.38
6	STRIPING	42526.39	1694633.66
7	STRIPING	42457.04	1694686.14
8	STRIPING	42501.71	1694590.00
9	STRIPING	42404.39	1694598.21
10	STRIPING	42478.91	1694615.02
11	STRIPING	42471.61	1694624.78
12	STRIPING	42455.24	1694636.56
13	STRIPING	42426.63	1694623.27

Curve	Radius	Delta	Length	Tangent
C1	75.00	70.87	92.78	53.37
C2	95.00	61.86	102.57	56.93

- 1 12" STOP BAR & "STOP" PAV'T MARKING. SEE DET
- 2 TRANSVERSE MEDIAN STRIPING, SEE DET
- 3 PARALLEL PARKING STALL MARKINGS (TYP.), SEE DET
- 4 PARKING STALL MARKINGS (TYP.), SEE DET
- 5 INSTALL R1-1 (30"X30") ON NEW POST.
- 6 INSTALL R2-1 (24"X30") ON EXIST. LIGHT POLE.
- 7 PAV'T ARROW, SEE DET
- 8 YIELD LINE, SEE DET
- 9 INSTALL R1-2 (30"X30"X30") ON NEW POST.
- 10 INSTALL R5-1 (30"X30") ON NEW POST.
- 11 INSTALL ACCESS AISLE SIGN (SEE DET 7 SHT C-42) (12"X18") ON NEW POST.
- 12 REMOVE EXIST PARKING SIGN & POST
- 13 INSTALL R6-1(L) (36"X12") ON NEW POST OR EXIST. LIGHT POLE TO MATCH EXIST. CONDITION.
- 14 INSTALL NEW POST FOR MONTHLY PERMIT PARKING SIGNS FURNISHED & INSTALLED BY OTHERS, SEE DET
- 15 SLAVAGE EXIST. PAY STATION SIGNS & INSTALL NEW POST. REINSTALL SALVAGED SIGNS, SEE DET
- 16 PAINT CURB YELLOW
- 17 INSTALL REFUSE SIGN, SEE DET
- 18 INSTALL RESERVED PARKING SIGN, SEE DET 1 SHT C-44.
- 19 INSTALL BOAT & TRAILER PARKING SIGN, SEE DET 6 SHT C-42.

NOTES:

- STALL COUNT:
 TOTAL STANDARD VEHICLE PARKING STALLS: 94
 PERMIT ONLY STALLS: 54
 RESERVED STALLS: 1
 RECREATIONAL PUBLIC STALLS: 0
 PAID PUBLIC STALLS: 39
 TOTAL ADA ACCESSIBLE VEHICLE PARKING STALLS: 0
 TOTAL VEHICLES WITH BOAT TRAILER STALLS: 5



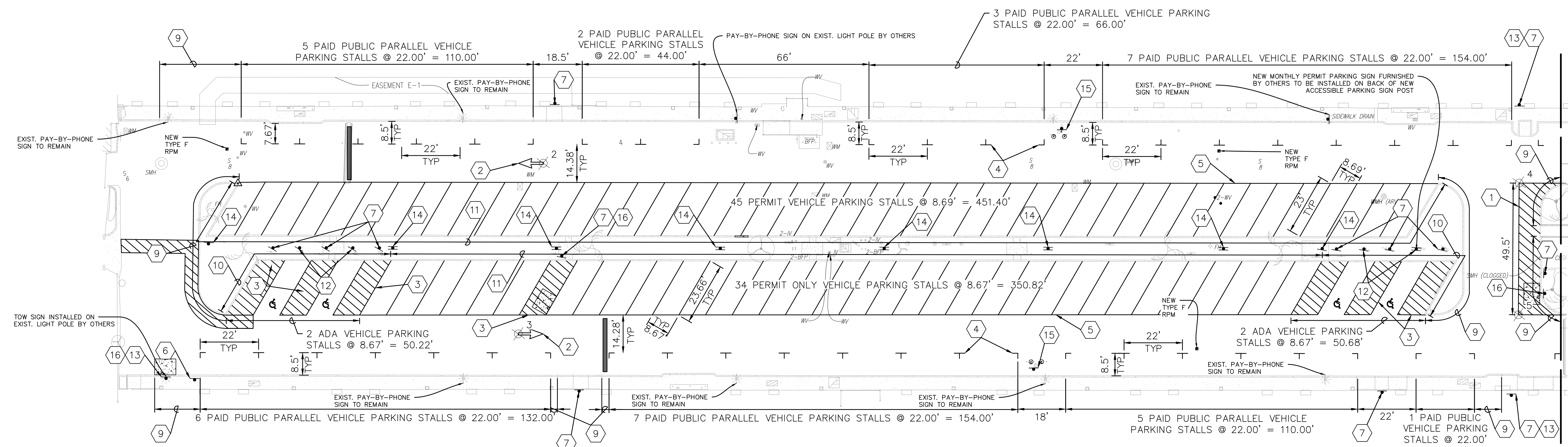
STRIPING PLAN 05
SCALE: 1" = 20'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII STRIPING PLAN 05					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			DATE		
			C-33		

Last Save by: ACHEN
 Last Saved: 5/7/2026
 Plotted on: 5/7/2026
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Point #	Description	Northing	Easting
1	STRIPING	29.73	81.08
2	STRIPING	43190.01	1694105.47
3	STRIPING	43160.04	1694047.88
4	STRIPING	42887.54	1694314.46
5	STRIPING	42858.78	1694274.13

TRUE NORTH
SCALE: 1" = 20'

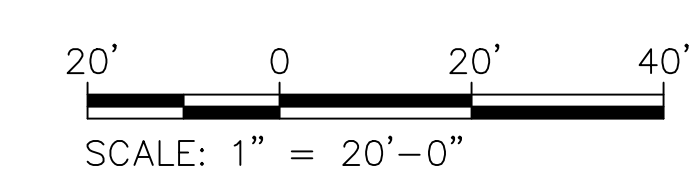


MATCH LINE
SEE SHEET C-33

- 1 TRANSVERSE MEDIAN STRIPING, SEE DET C-41
- 2 PAV'T ARROW, SEE DET C-41
- 3 TRANSVERSE ACCESS AISLE STRIPING, SEE DET C-41
- 4 PARALLEL PARKING STALL MARKINGS (TYP.), SEE DET C-41
- 5 PARKING STALL MARKINGS (TYP.), SEE DET C-41
- 6 INSTALL R7-2(R) (12"x18") R7-201aP (12"x6") ON NEW POST.
- 7 INSTALL ACCESS AISLE SIGN (SEE DET 7 SHT C-42) (12"x18") ON NEW POST.
- 8 REMOVE EXIST PARKING SIGN & POST
- 9 PAINT CURB RED
- 10 PAINT CURB BLUE
- 11 PAINT CURB YELLOW
- 12 INSTALL R7-8 (12"x18") R7-8aP (12"x6") R7-201oP (12"x6") ON NEW POST.
- 13 INSTALL R6-1(L) (36"x12") ON NEW POST OR EXIST. LIGHT POLE TO MATCH EXIST. CONDITION.
- 14 INSTALL NEW POST FOR MONTHLY PERMIT PARKING SIGNS FURNISHED & INSTALLED BY OTHERS, SEE DET C-42
- 15 SLAVAGE EXIST. PAY STATION SIGNS & INSTALL NEW POST. REINSTALL SALVAGED SIGNS, SEE DET C-42
- 16 INSTALL REFUSE SIGN, SEE DET C-43

NOTES:
1. STALL COUNT:
TOTAL STANDARD VEHICLE PARKING STALLS: 115
PERMIT ONLY STALLS: 79
RECREATIONAL PUBLIC STALLS: 0
PAID PUBLIC STALLS: 36
TOTAL ADA ACCESSIBLE VEHICLE PARKING STALLS: 4

STRIPING PLAN 06
SCALE: 1" = 20'-0"



Last Save by: ACHEN
Last Saved: 5/7/2026
Plotted on: 5/7/2026
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REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
STRIPING PLAN 06					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			DATE		
			C-34		

MATCH LINE
SEE SHEET C-32

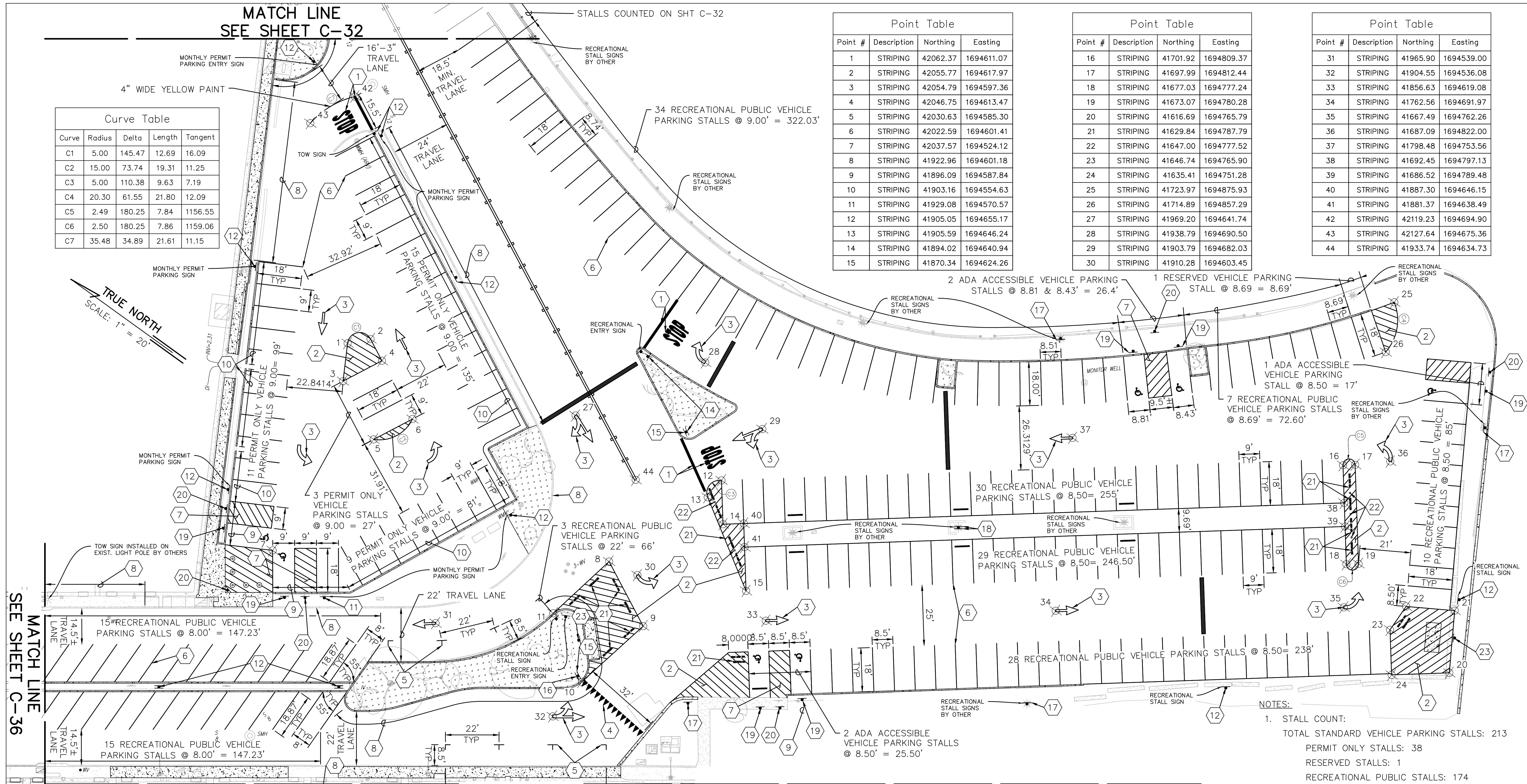
Curve	Radius	Delta	Length	Tangent
C1	5.00	145.47	12.69	16.09
C2	15.00	73.74	19.31	11.25
C3	5.00	110.38	9.63	7.19
C4	20.30	61.55	21.80	12.09
C5	2.49	180.25	7.84	1156.55
C6	2.50	180.25	7.86	1159.06
C7	35.48	34.89	21.61	11.15

Point #	Description	Northing	Easting
1	STRIPING	42062.37	1694611.07
2	STRIPING	42055.77	1694617.97
3	STRIPING	42054.79	1694597.36
4	STRIPING	42046.75	1694613.47
5	STRIPING	42030.63	1694585.30
6	STRIPING	42022.59	1694601.41
7	STRIPING	42037.57	1694524.12
8	STRIPING	41922.96	1694601.18
9	STRIPING	41896.09	1694587.84
10	STRIPING	41903.16	1694554.63
11	STRIPING	41929.08	1694570.57
12	STRIPING	41905.05	1694655.17
13	STRIPING	41905.59	1694646.24
14	STRIPING	41894.02	1694640.94
15	STRIPING	41870.34	1694624.26

Point #	Description	Northing	Easting
16	STRIPING	41701.92	1694809.37
17	STRIPING	41697.99	1694812.44
18	STRIPING	41677.03	1694777.24
19	STRIPING	41673.07	1694780.28
20	STRIPING	41616.69	1694765.79
21	STRIPING	41629.84	1694787.79
22	STRIPING	41647.00	1694777.52
23	STRIPING	41646.74	1694765.90
24	STRIPING	41635.41	1694751.28
25	STRIPING	41723.97	1694875.93
26	STRIPING	41714.89	1694857.29
27	STRIPING	41969.20	1694641.74
28	STRIPING	41938.79	1694690.50
29	STRIPING	41903.79	1694682.03
30	STRIPING	41910.28	1694603.45

Point #	Description	Northing	Easting
31	STRIPING	41965.90	1694539.00
32	STRIPING	41904.55	1694536.08
33	STRIPING	41856.63	1694619.08
34	STRIPING	41762.56	1694691.97
35	STRIPING	41667.49	1694762.26
36	STRIPING	41687.09	1694822.00
37	STRIPING	41798.48	1694753.56
38	STRIPING	41692.45	1694797.13
39	STRIPING	41686.52	1694789.48
40	STRIPING	41887.30	1694646.15
41	STRIPING	41881.37	1694638.49
42	STRIPING	42119.23	1694694.90
43	STRIPING	42127.64	1694675.36
44	STRIPING	41933.74	1694634.73

MATCH LINE
SEE SHEET C-36



- NOTES:**
- STALL COUNT:
 TOTAL STANDARD VEHICLE PARKING STALLS: 213
 PERMIT ONLY STALLS: 38
 RESERVED STALLS: 1
 RECREATIONAL PUBLIC STALLS: 174
 PAID PUBLIC STALLS: 0
 TOTAL ADA ACCESSIBLE VEHICLE PARKING STALLS: 7

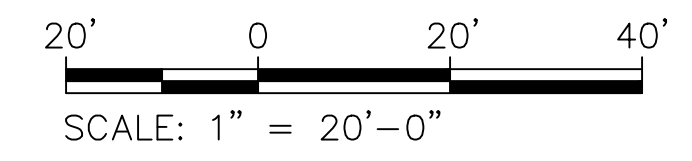
- 1 12" STOP BAR & "STOP" PAV'T MARKING. SEE DET C-41
- 2 TRANSVERSE MEDIAN STRIPING, SEE DET C-41
- 3 PAV'T ARROW, SEE DET C-41
- 4 YIELD LINE, SEE DET C-41
- 5 PARALLEL PARKING STALL MARKINGS (TYP.), SEE DET C-41
- 6 PARKING STALL MARKINGS (TYP.), SEE DET C-41
- 7 TRANSVERSE ACCESS AISLE STRIPING, SEE DET C-41
- 8 PAINT CURB RED
- 9 PAINT CURB BLUE

- 10 PAINT CURB YELLOW
- 11 INSTALL NEW SURFACE-MOUNTED SIGN POST, SEE DET C-42
- 12 INSTALL NEW SIGN POST, SEE DET C-42
- 13 REMOVE EXIST SIGN & POST
- 14 INSTALL R1-1 (30"x30") ON NEW POST.
- 15 INSTALL R5-1 (30"x30") ON NEW POST.

LIMITS OF WORK

- 16 INSTALL R1-2 (30"x30"x30") ON NEW POST.
- 17 INSTALL R6-1(L) (36"x12") ON NEW POST OR LIGHT POLE AS SHOWN.
- 18 INSTALL R6-1(R) (36"x12") ON NEW POST OR LIGHT POLE AS SHOWN.

- 19 INSTALL R7-8 (12"x18") R7-8GP (12"x6") R7-201aP (12"x6") ON NEW POST.
- 20 INSTALL ACCESS AISLE SIGN (SEE DET 7 SHT C-42) (12"x18") ON NEW POST.
- 21 "NO PARKING" & "TOW-AWAY ZONE" STENCILED PAV'T MARKINGS AS SHOWN, SEE DET C-43
- 22 YELLOW REFLECTIVE FLEXIBLE POST, SEE DET C-43
- 23 INSTALL REFUSE SIGN, SEE DET C-43



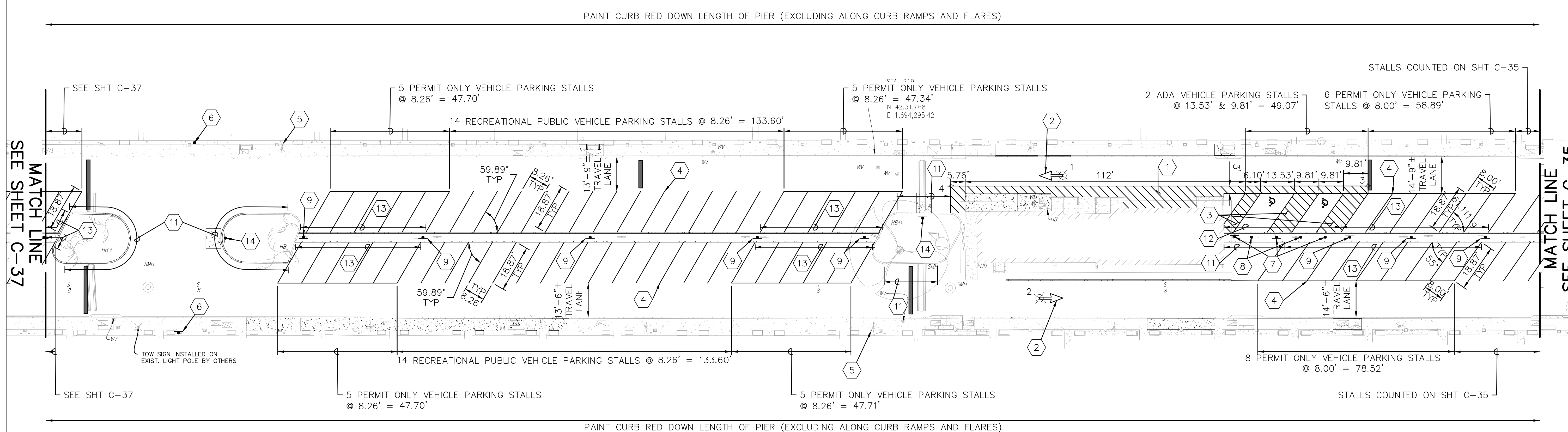
STRIPING PLAN 07
SCALE: 1" = 20'-0"

REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
STRIPING PLAN 07					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			DATE		

SCOTT A. KUNIOKE
LICENSED PROFESSIONAL ENGINEER
No. 7257-C
HAWAII, U.S.A.

Point Table			
Point #	Description	Northing	Easting
1	STRIPING	42249.57	1694332.41
2	STRIPING	42228.37	1694287.31
3	STRIPING	42148.17	1694400.47
4	STRIPING	42283.40	1694302.90

TRUE NORTH
SCALE: 1" = 20'



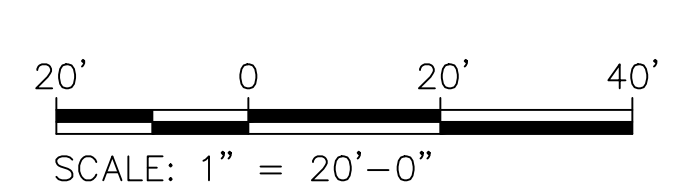
SEE SHEET C-37
MATCH LINE

MATCH LINE
SEE SHEET C-35

- 1 TRANSVERSE WALKWAY STRIPING, SEE DET 6
- 2 PAV'T ARROW, SEE DET 7
- 3 TRANSVERSE ACCESS AISLE STRIPING, SEE DET 6
- 4 PARKING STALL MARKINGS (TYP.), SEE DET 2
- 5 INSTALL R2-1 (24"x30") ON EXIST. LIGHT POLE.
- 6 INSTALL R6-1(L) (36"x12") ON NEW POST OR EXIST. LIGHT POLE TO MATCH EXIST. CONDITION.
- 7 INSTALL ACCESS AISLE SIGN (SEE DET 7 SHT C-42) (12"x18") ON NEW POST.
- 8 INSTALL R7-8 (12"x18") R7-8aP (12"x6") R7-201aP (12"x6") ON NEW POST.
- 9 INSTALL NEW POST FOR MONTHLY PERMIT PARKING & RECREATIONAL STALL SIGNS FURNISHED & INSTALLED BY OTHERS, SEE DET 3
- 10 REMOVE EXIST PARKING SIGN & POST
- 11 PAINT CURB RED
- 12 PAINT CURB BLUE
- 13 PAINT CURB YELLOW
- 14 INSTALL REFUSE SIGN, SEE DET 7

NOTES:
1. STALL COUNT:
TOTAL STANDARD VEHICLE PARKING STALLS: 64
PERMIT ONLY STALLS: 34
RECREATIONAL PUBLIC STALLS: 28
PAID PUBLIC STALLS: 0
TOTAL ADA ACCESSIBLE VEHICLE PARKING STALLS: 2

STRIPING PLAN 08
SCALE: 1" = 20'-0"



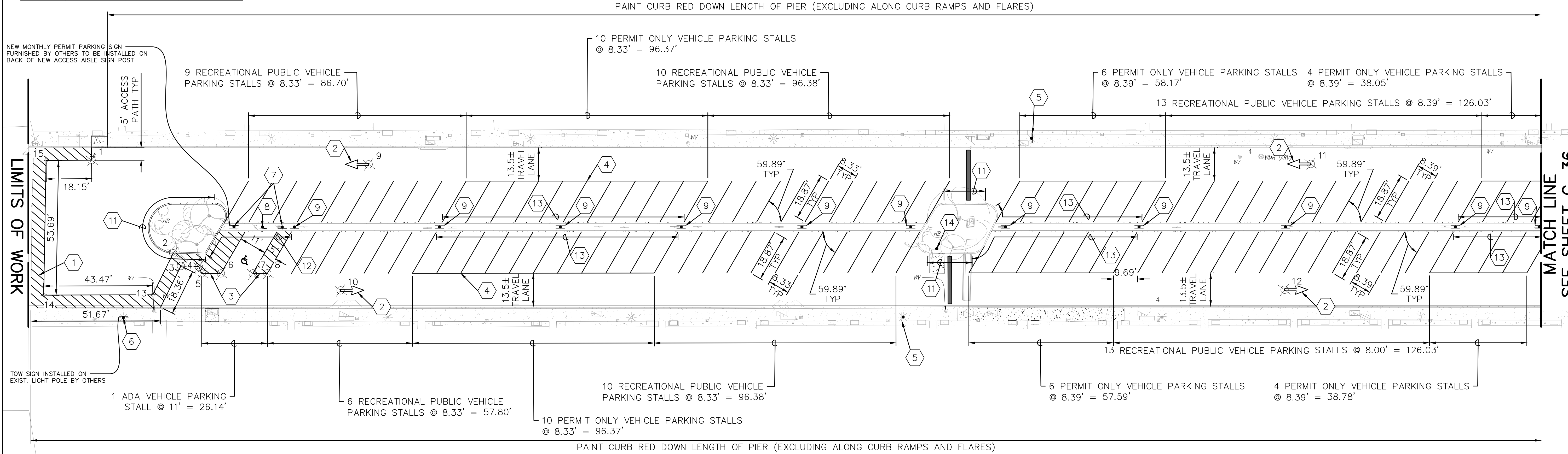
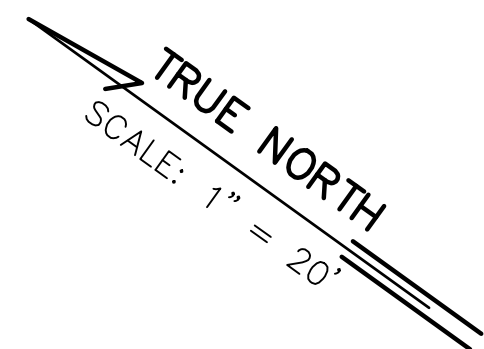
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
STRIPING PLAN 08					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			DATE		
			C-36		

Last Save by: ACHEN
Last Saved: 5/7/2026
Plotted on: 5/7/2026
g:\dhr2402_ala_wai_sbh_paving\300
design\310_plans\DLNR2402 Striping Plan
7.dwg

JOB NO. B71C075A ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS

Point #	Description	Northing	Easting
1	STRIPING	43048.82	1693758.29
2	STRIPING	43000.71	1693747.20
3	STRIPING	42995.25	1693744.87
4	STRIPING	42989.34	1693748.88
5	STRIPING	42986.78	1693747.33
6	STRIPING	42980.59	1693751.79
7	STRIPING	42970.27	1693759.25
8	STRIPING	42965.59	1693762.64

Point #	Description	Northing	Easting
9	STRIPING	42958.30	1693821.56
10	STRIPING	42937.93	1693774.23
11	STRIPING	42653.83	1694041.38
12	STRIPING	42632.94	1693994.55
13	STRIPING	42997.62	1693729.00
14	STRIPING	43032.81	1693703.47
15	STRIPING	43063.45	1693747.56



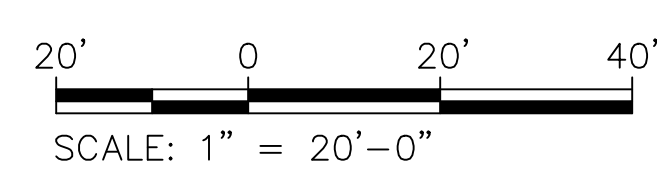
- 1 TRANSVERSE WALKWAY STRIPING, SEE DET
- 2 PAV'T ARROW, SEE DET
- 3 TRANSVERSE ACCESS AISLE STRIPING, SEE DET
- 4 PARKING STALL MARKINGS (TYP.), SEE DET
- 5 INSTALL R2-1 (24"x30") ON EXIST. LIGHT POLE.
- 6 INSTALL R6-1(L) (36"x12") ON NEW POST OR EXIST. LIGHT POLE TO MATCH EXIST. CONDITION.
- 7 INSTALL ACCESS AISLE SIGN (SEE DET 7 SHT C-42) (12"x18") ON NEW POST.
- 8 INSTALL R7-8 (12"x18") R7-8aP (12"x6") R7-201aP (12"x6") ON NEW POST.
- 9 INSTALL NEW POST FOR MONTHLY PERMIT PARKING & RECREATIONAL STALL SIGNS FURNISHED & INSTALLED BY OTHERS, SEE DET
- 10 REMOVE EXIST PARKING SIGN & POST
- 11 PAINT CURB RED
- 12 PAINT CURB BLUE
- 13 PAINT CURB YELLOW
- 14 INSTALL REFUSE SIGN, SEE DET

NOTES:

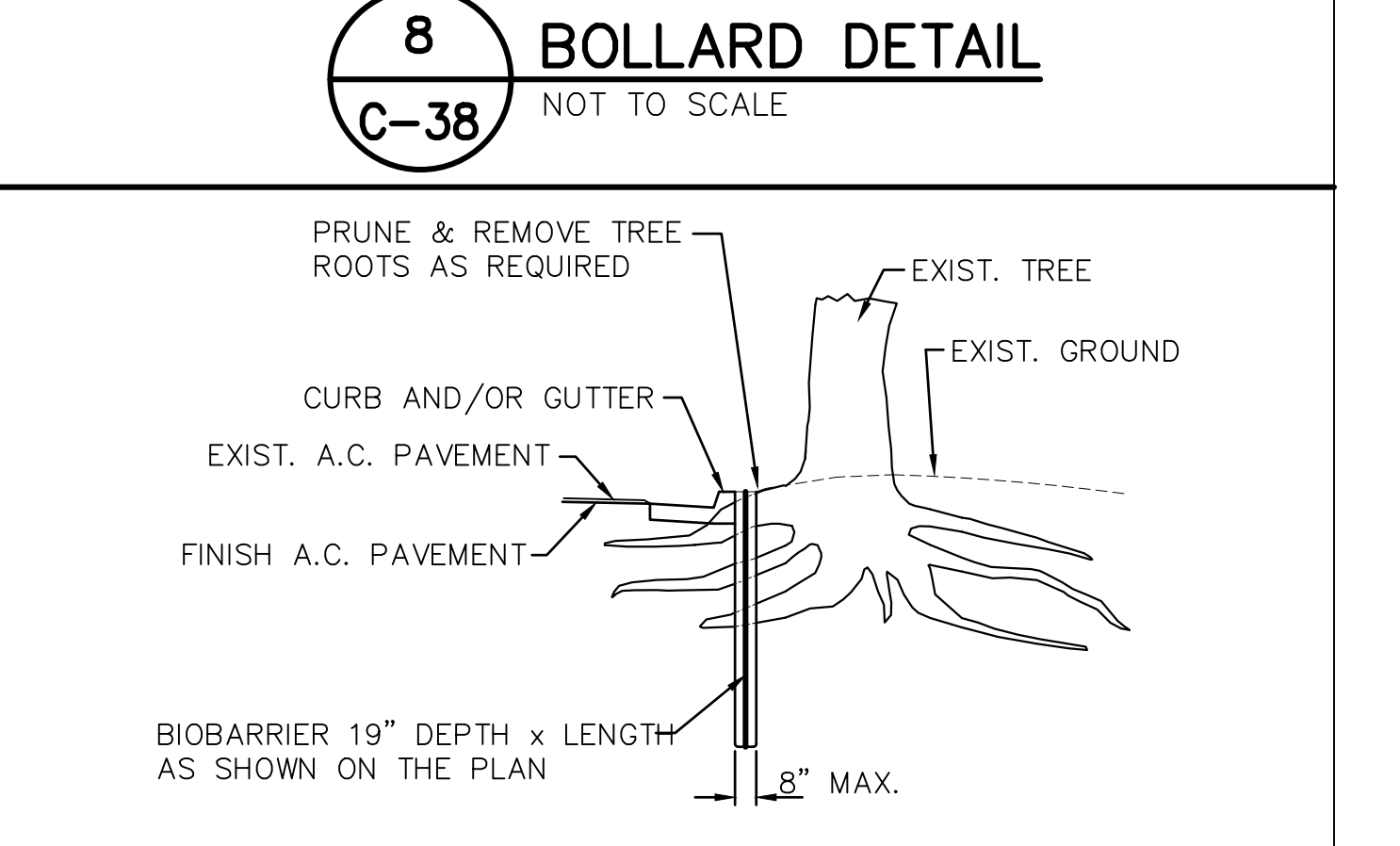
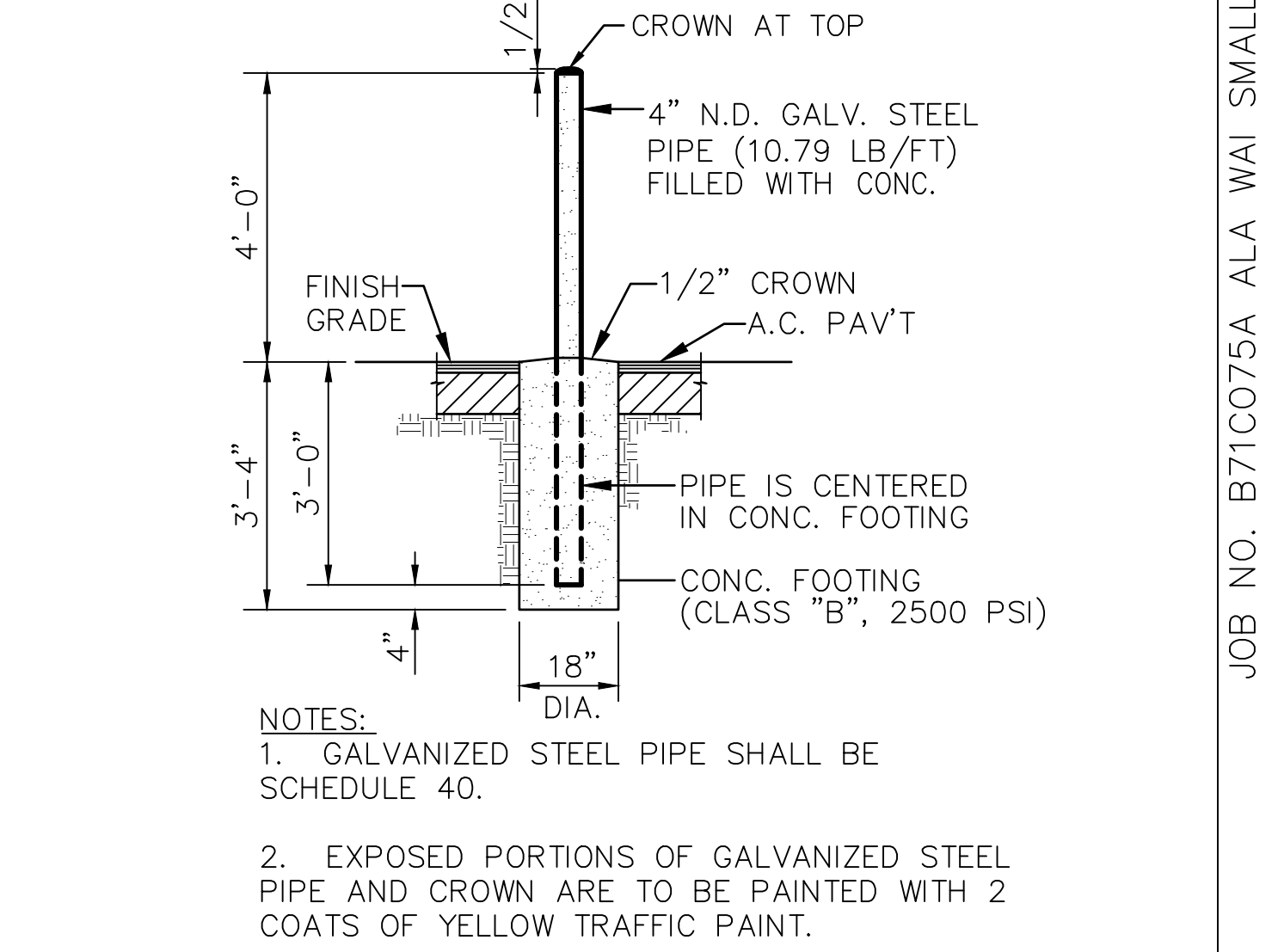
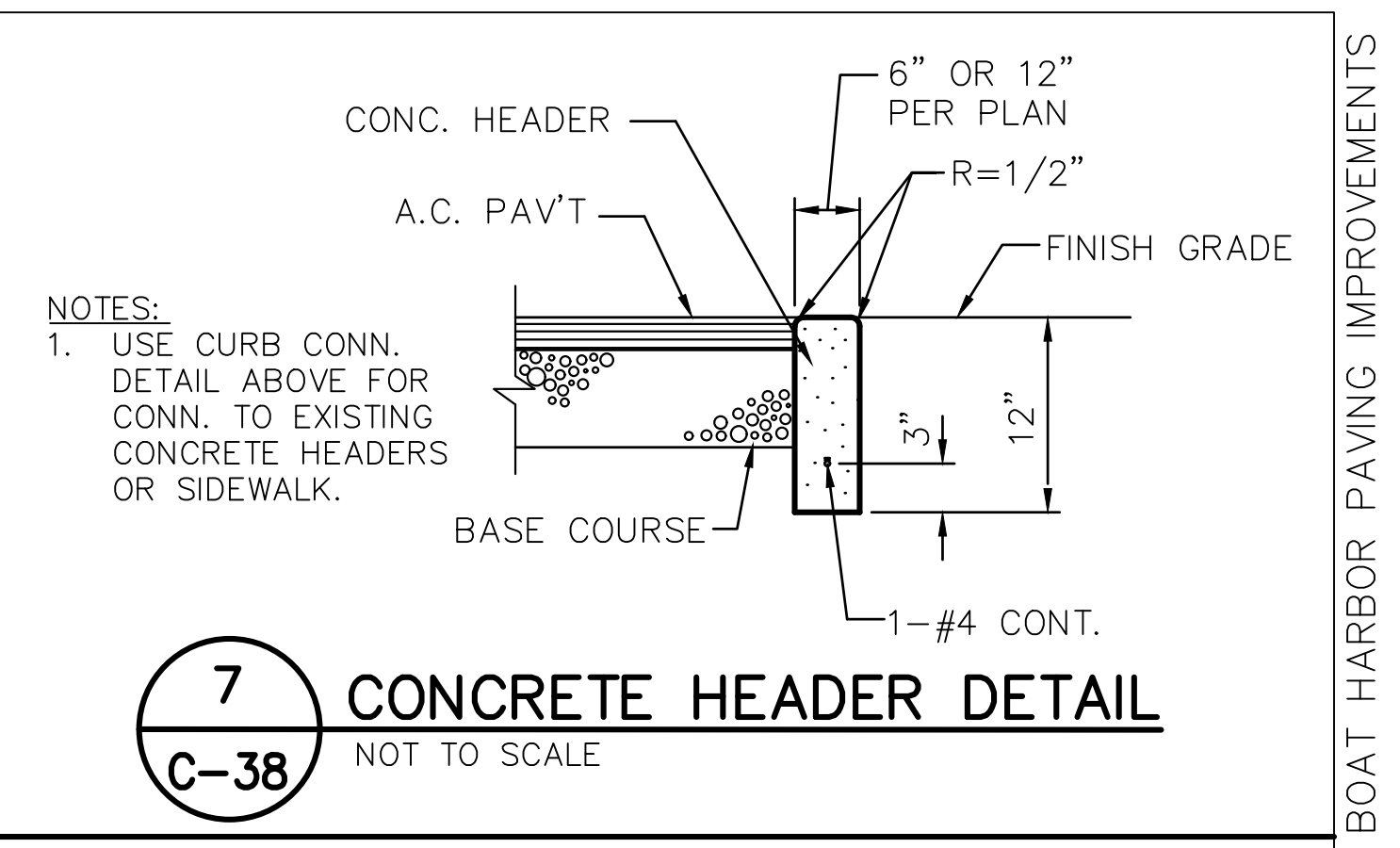
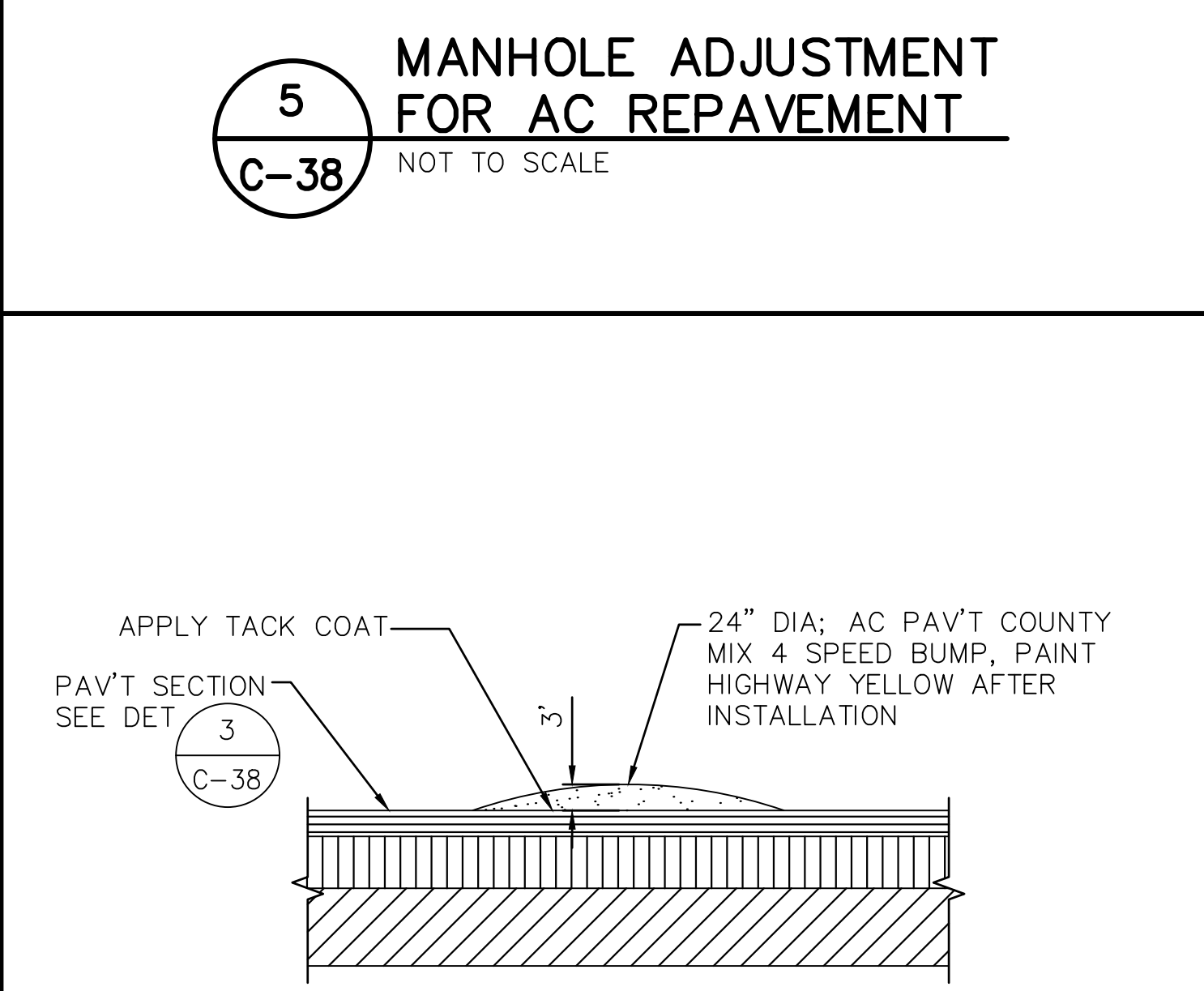
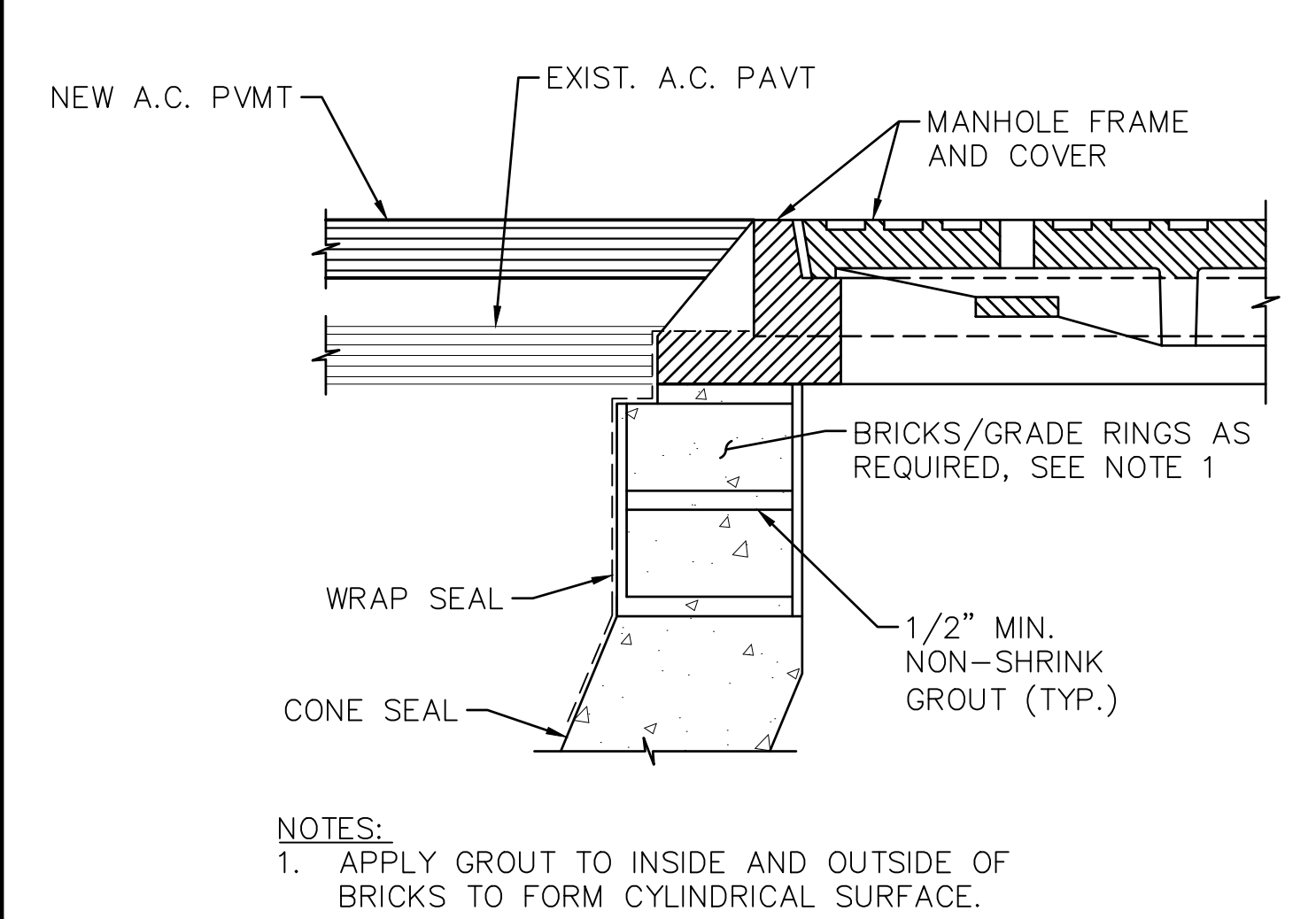
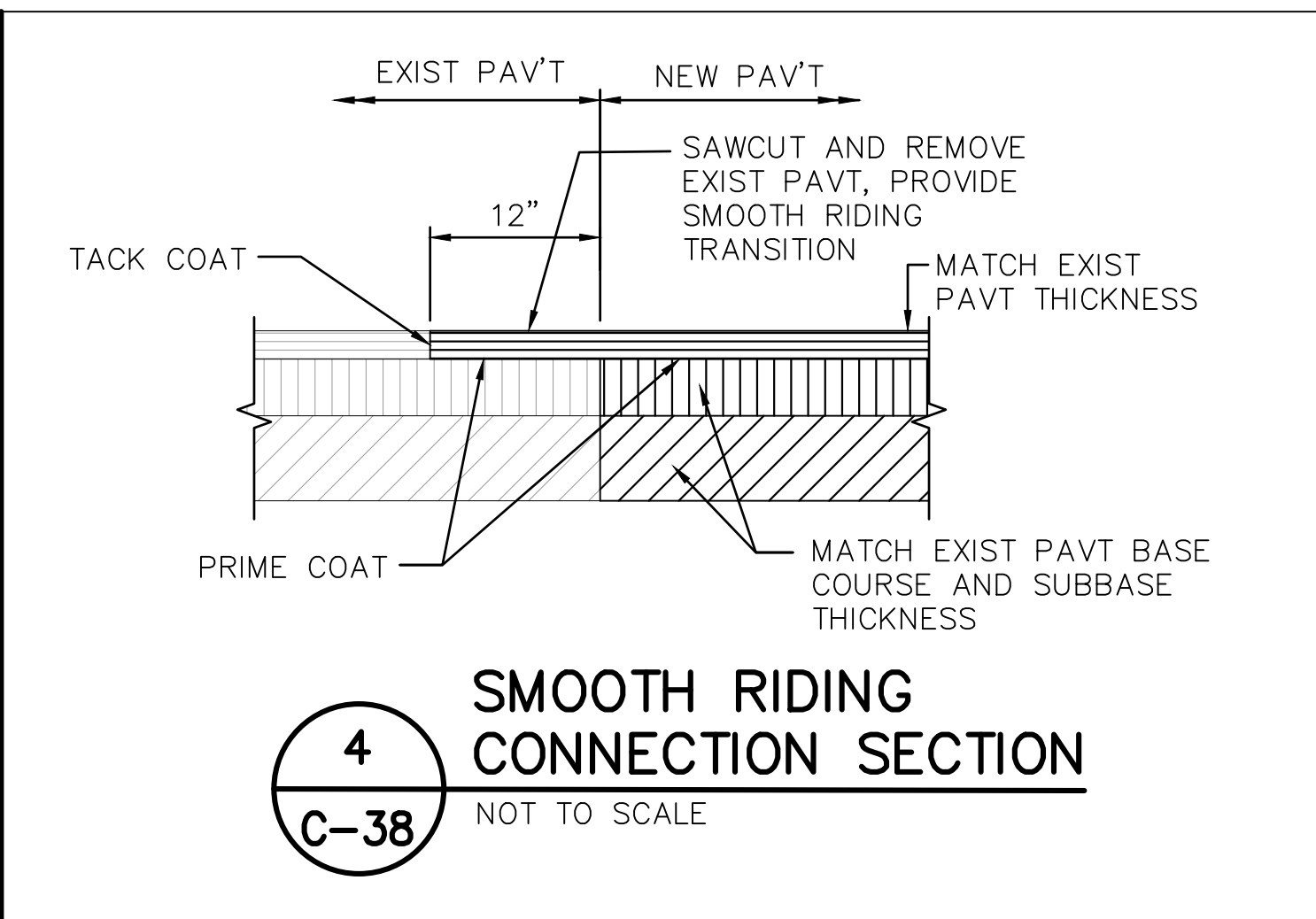
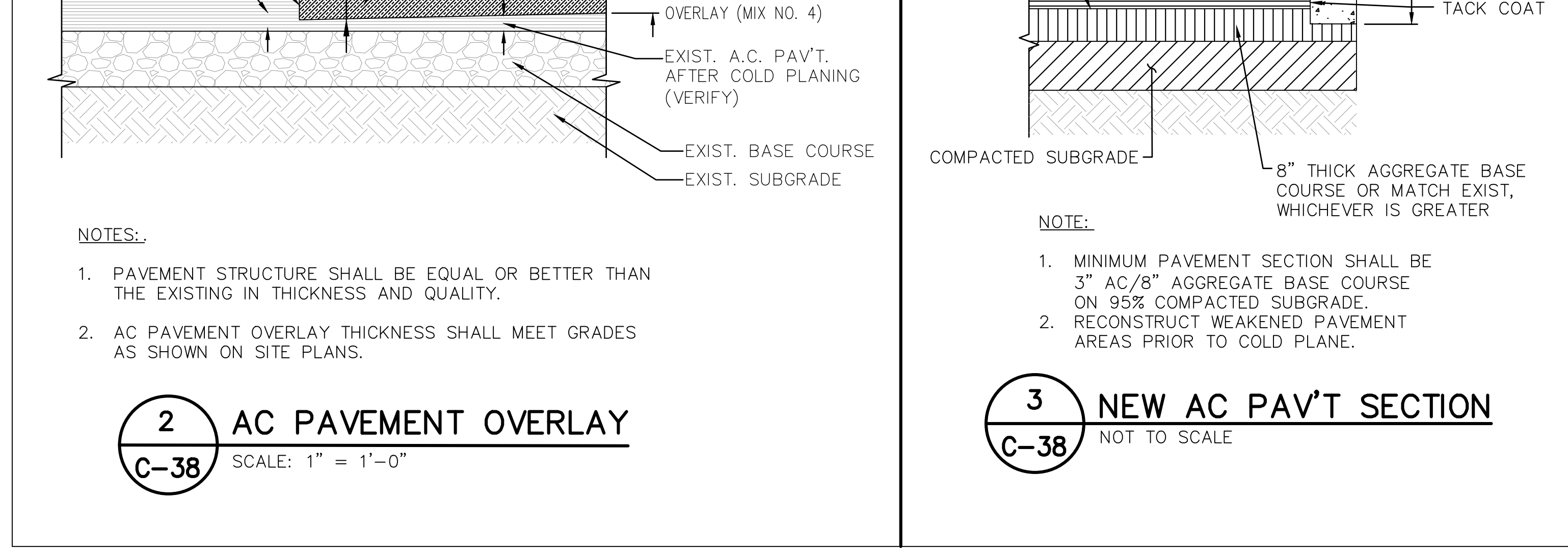
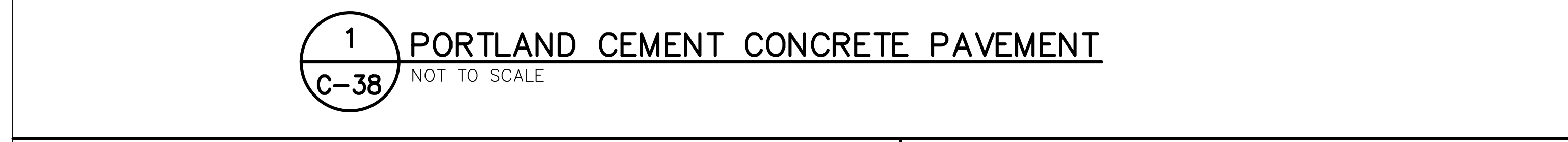
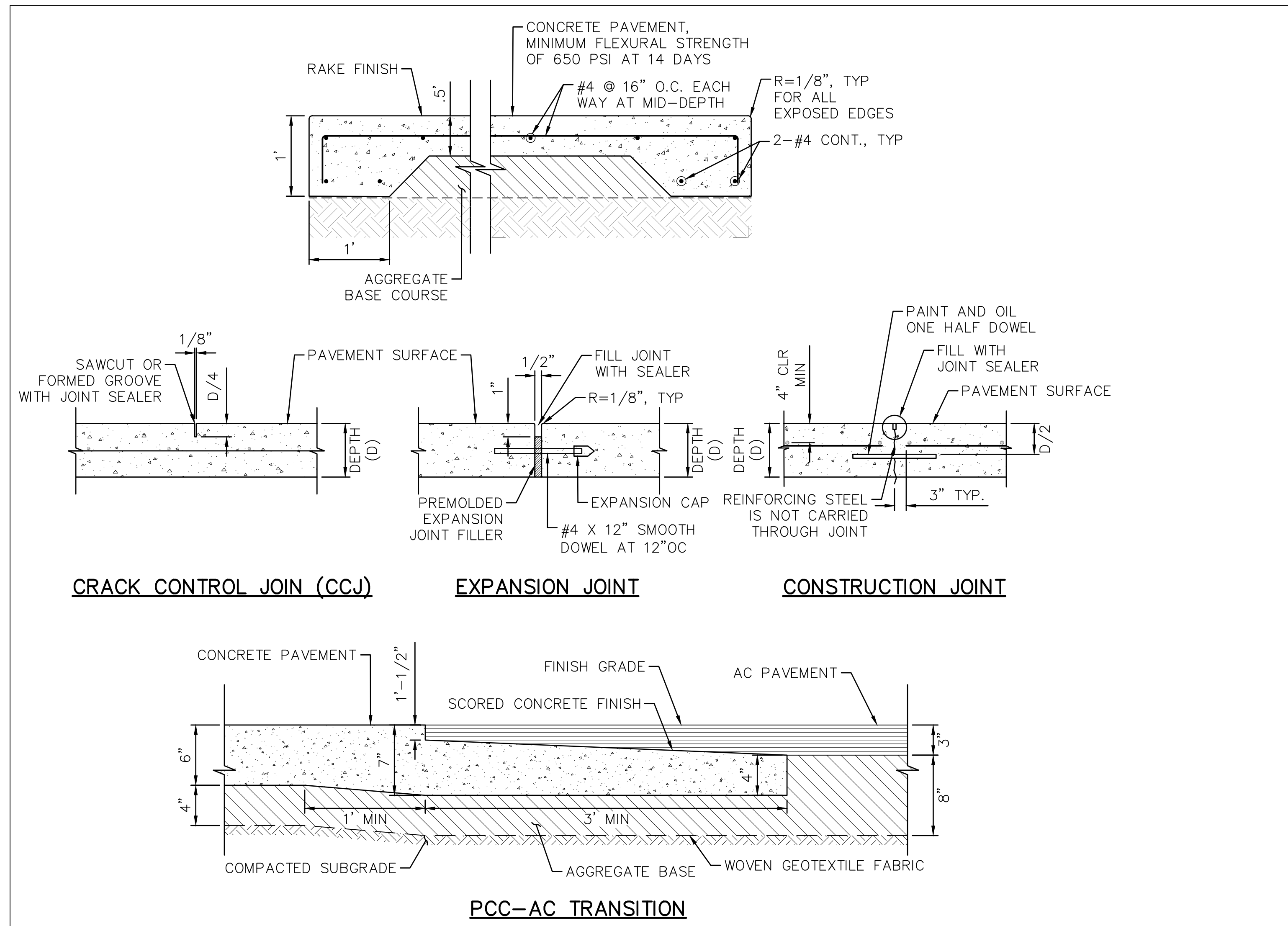
- STALL COUNT:
 TOTAL STANDARD VEHICLE PARKING STALLS: 102
 PERMIT ONLY STALLS: 40
 RECREATIONAL PUBLIC STALLS: 61
 PAID PUBLIC STALLS: 0
 TOTAL ADA ACCESSIBLE VEHICLE PARKING STALLS: 1

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
STRIPING PLAN 09					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			DATE		
			C-37		

STRIPING PLAN 09
SCALE: 1" = 20'-0"

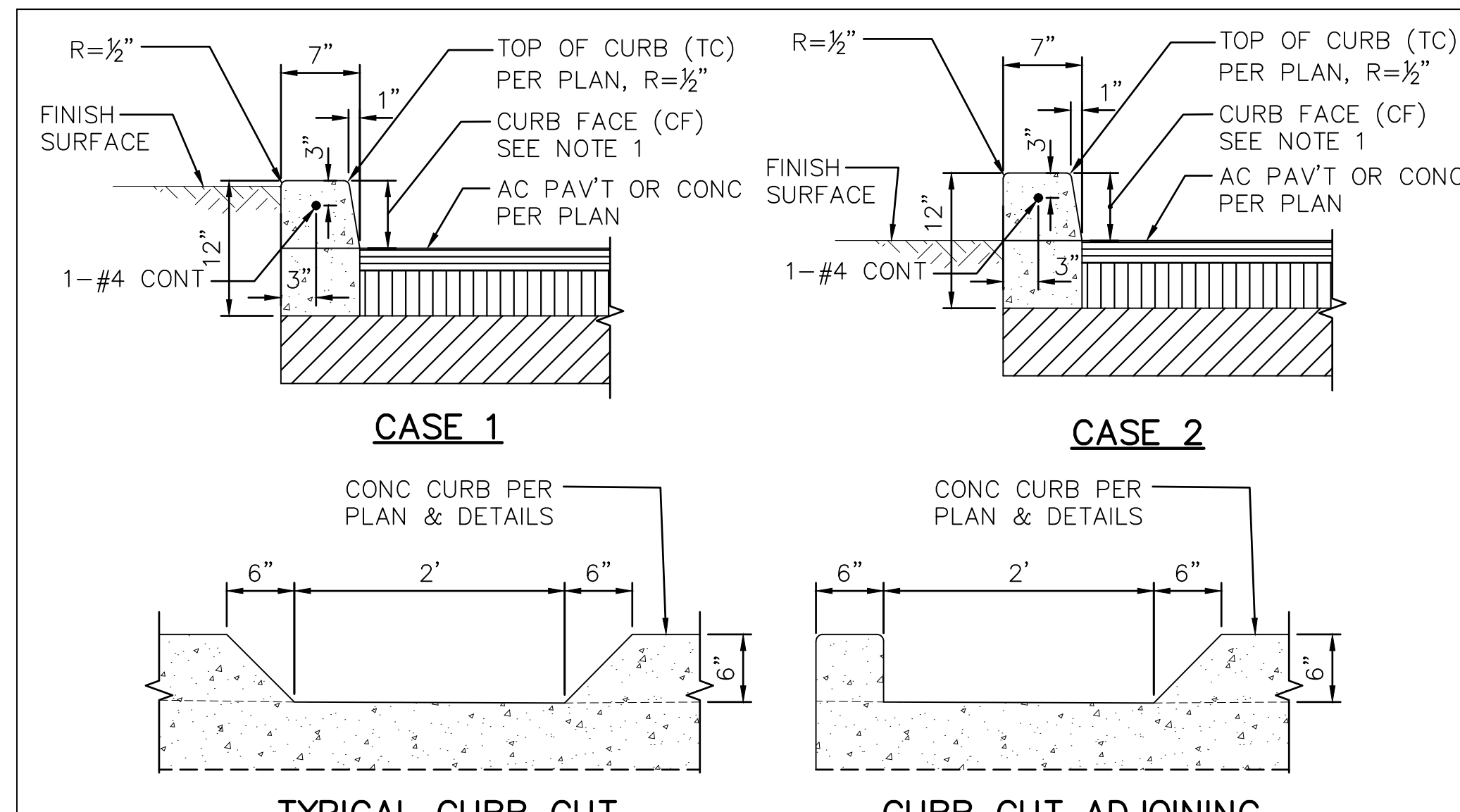


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 Plotted on: 5/7/2026
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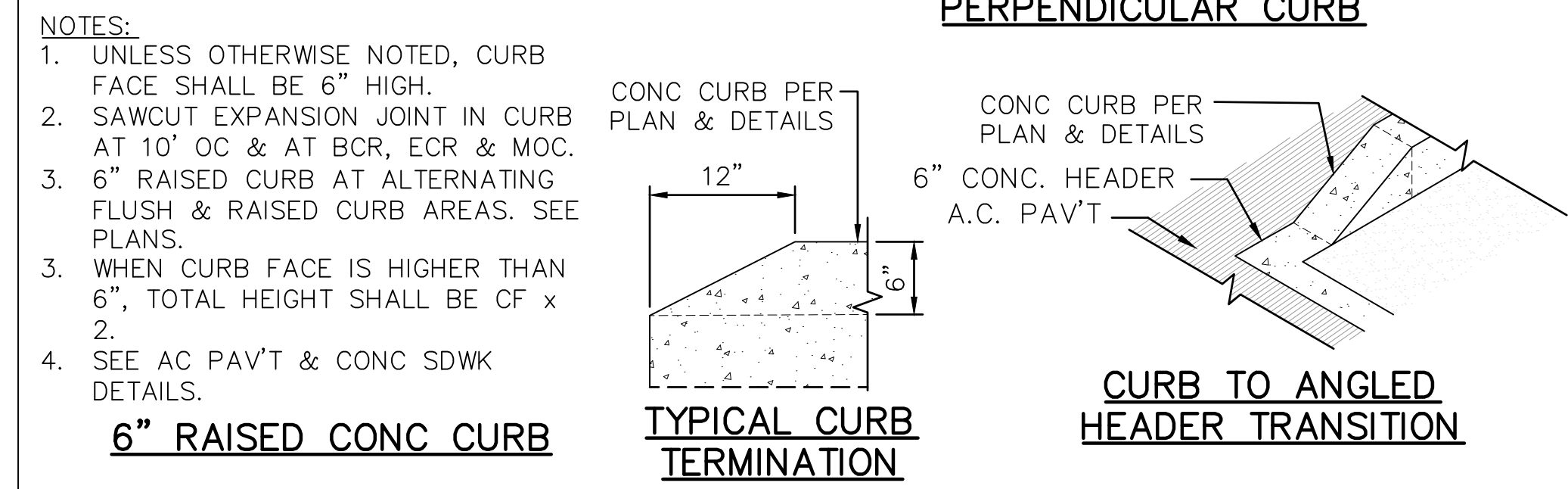


REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII SITE DETAILS 01					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			C-38		

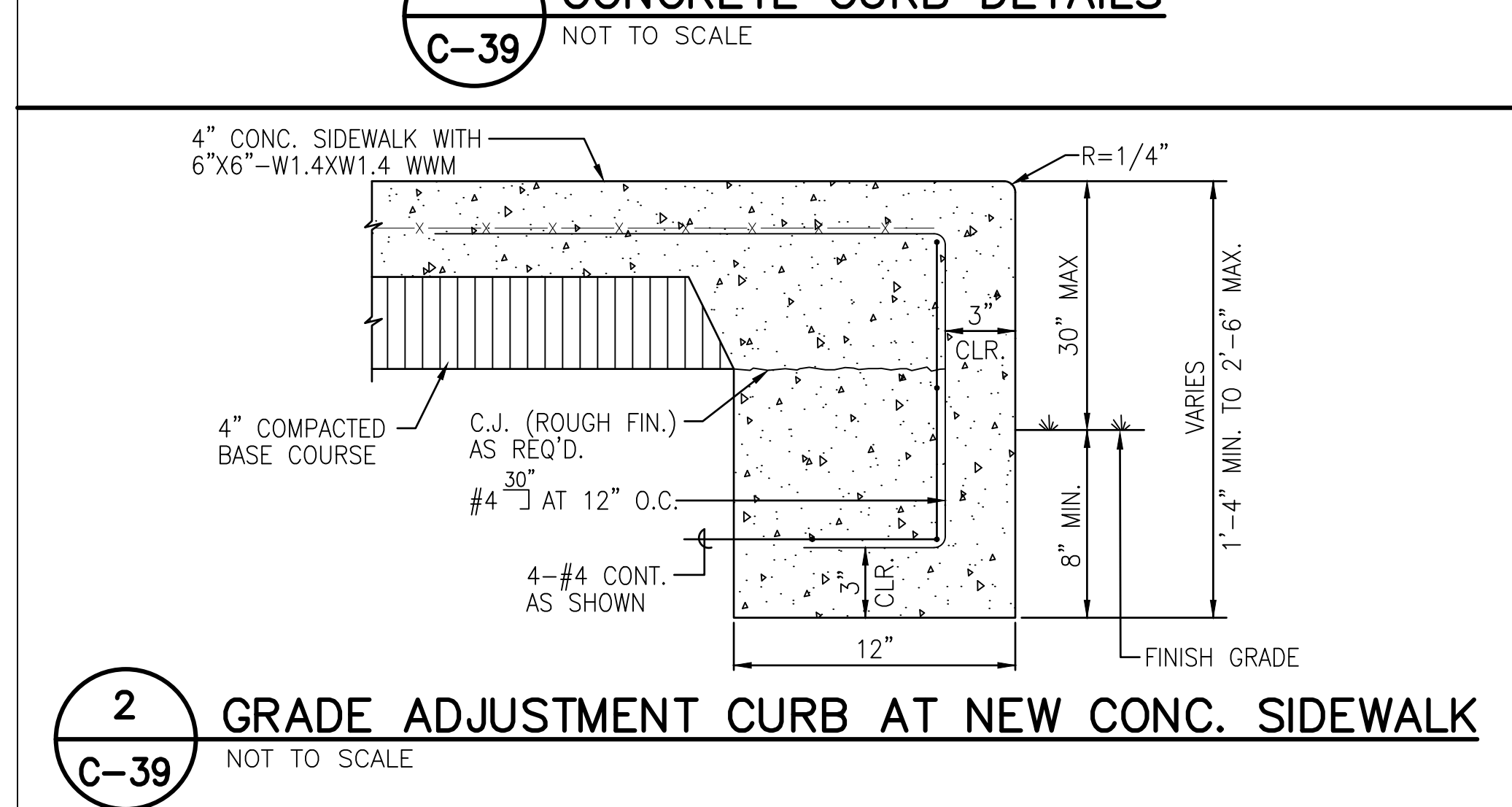
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Last Saved: 5/7/2026
Plotted on: 5/7/2026
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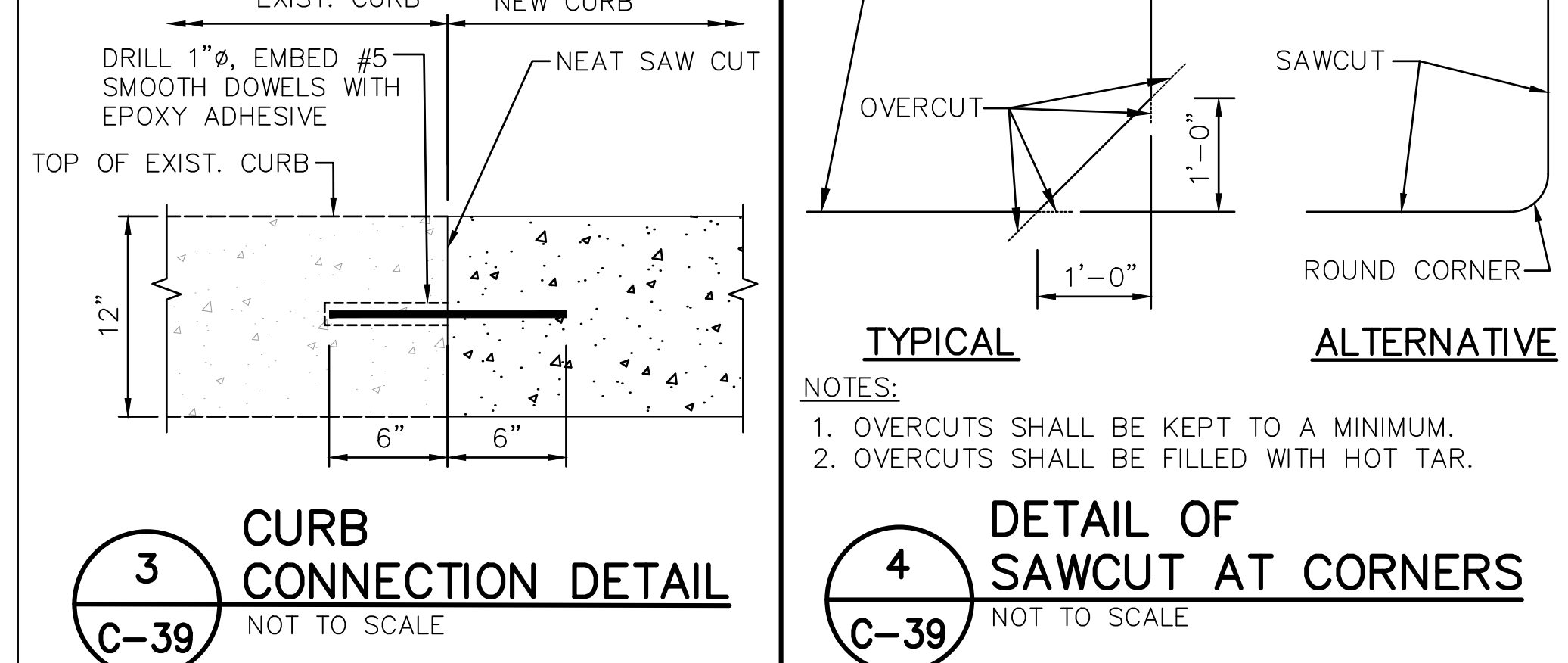
1 CONCRETE CURB DETAILS
C-39 NOT TO SCALE



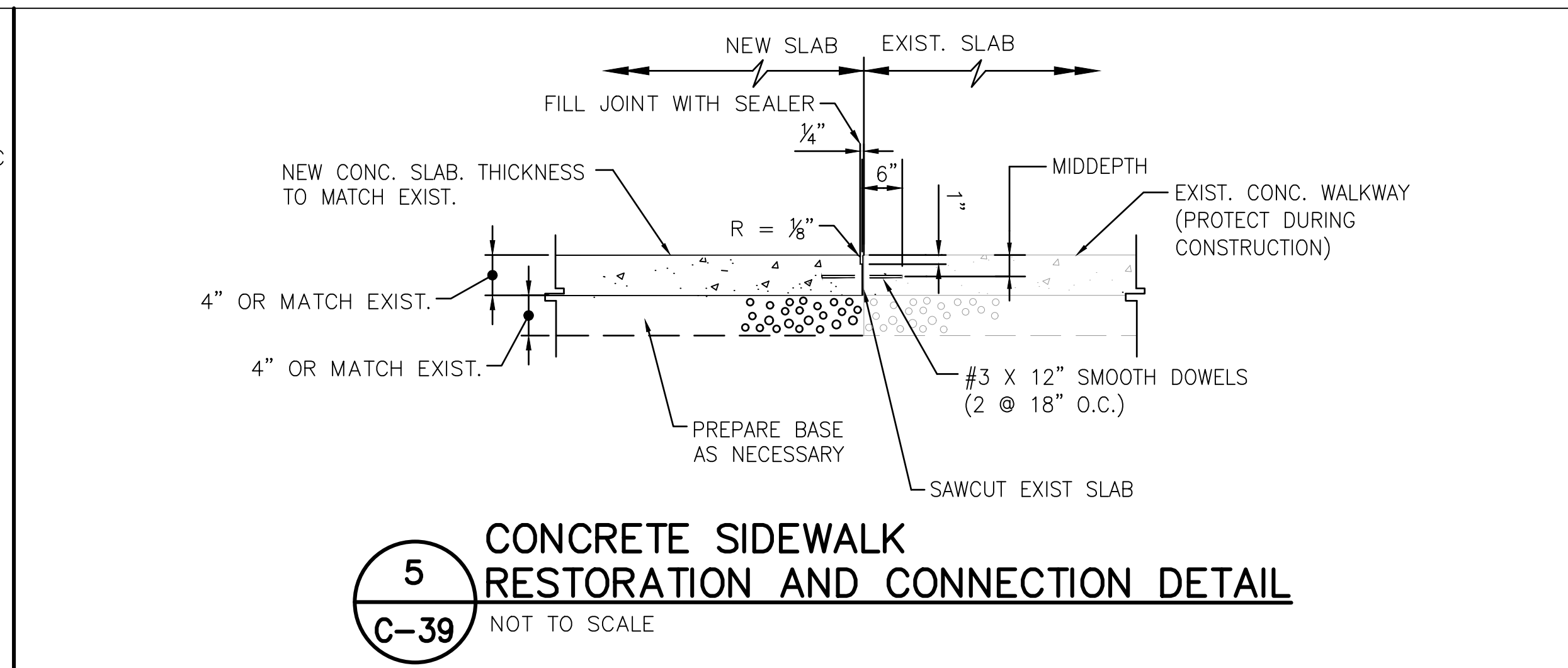
2 GRADE ADJUSTMENT CURB AT NEW CONC. SIDEWALK
C-39 NOT TO SCALE



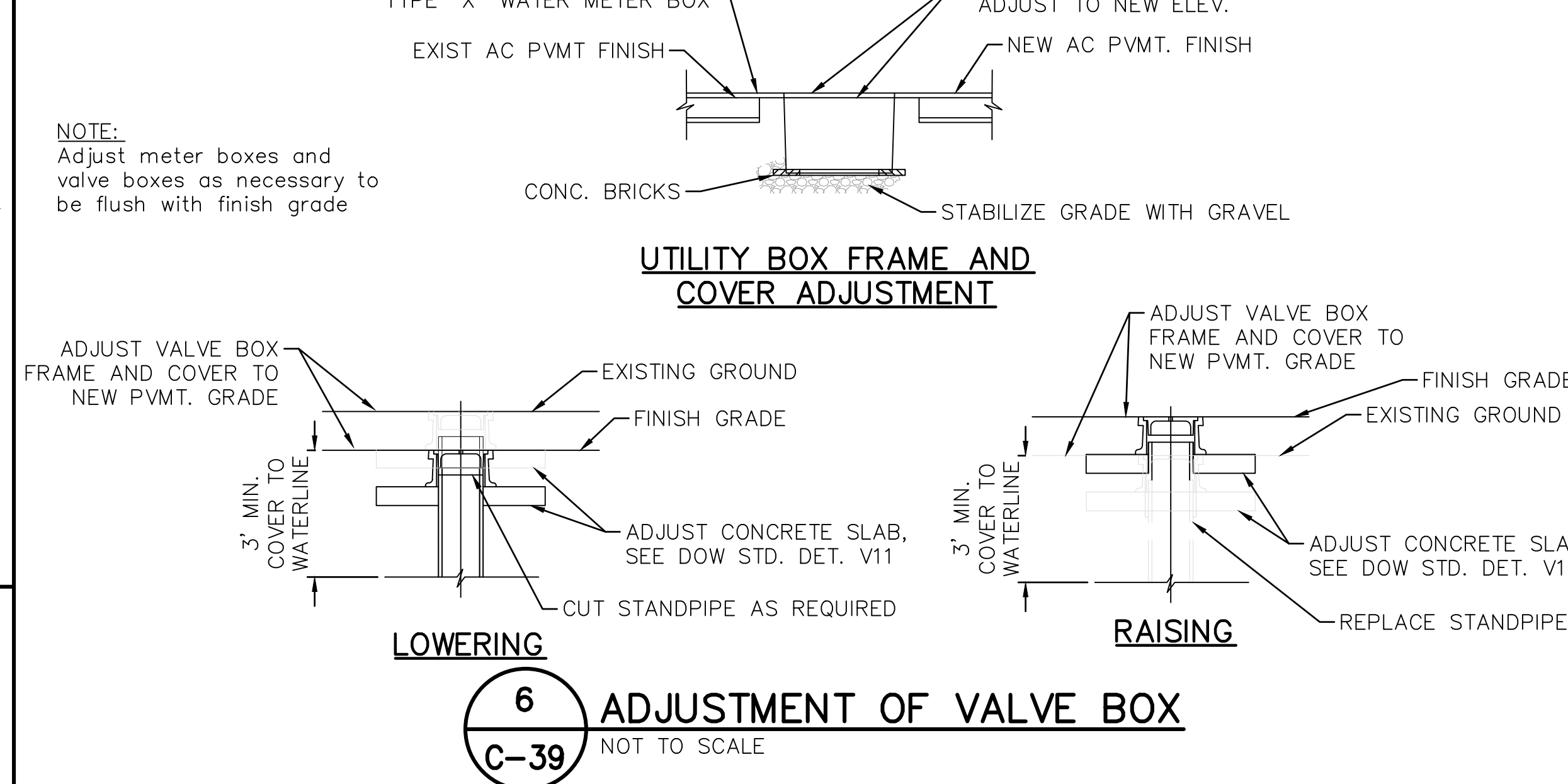
3 CURB CONNECTION DETAIL
C-39 NOT TO SCALE



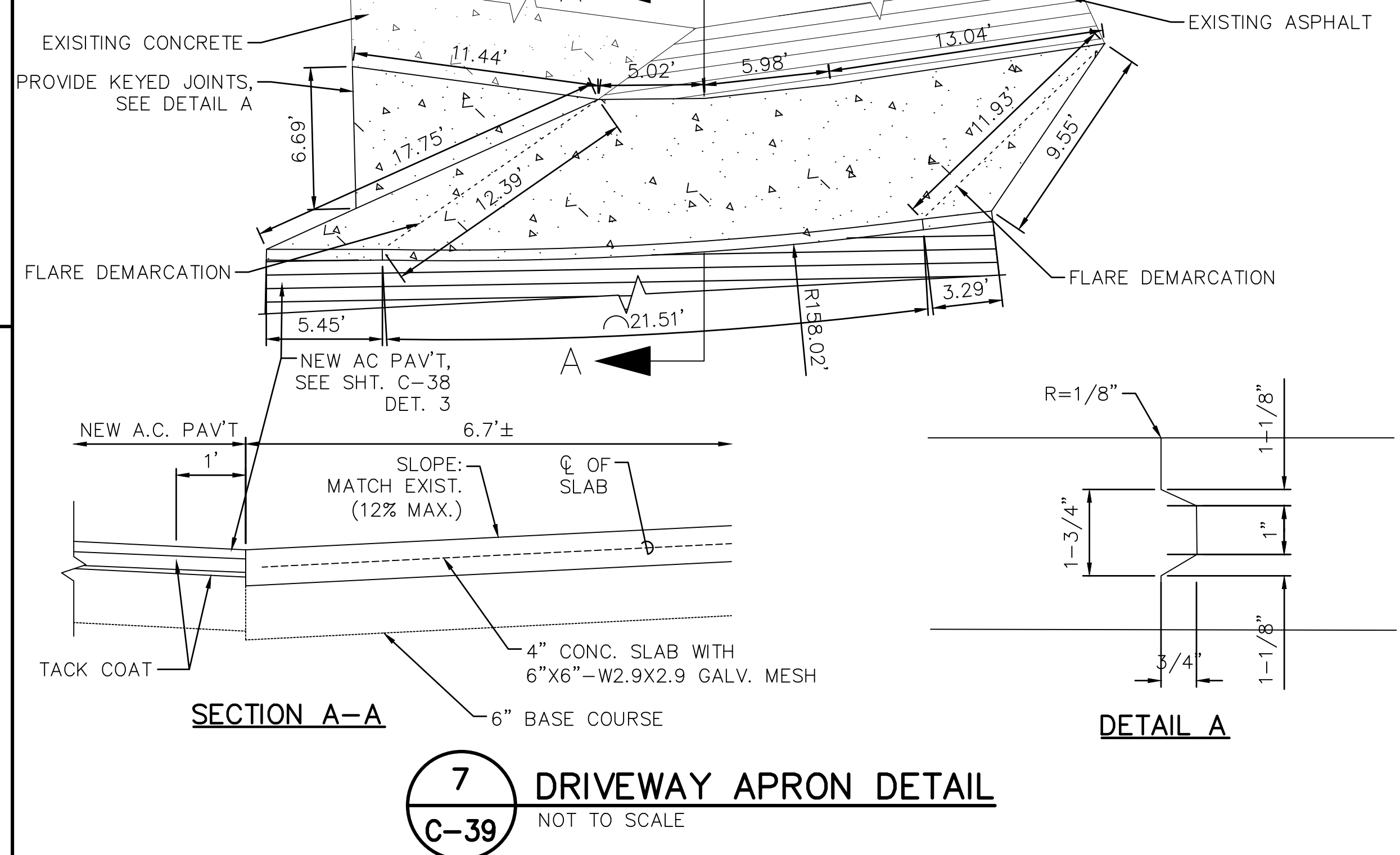
4 DETAIL OF SAWCUT AT CORNERS
C-39 NOT TO SCALE



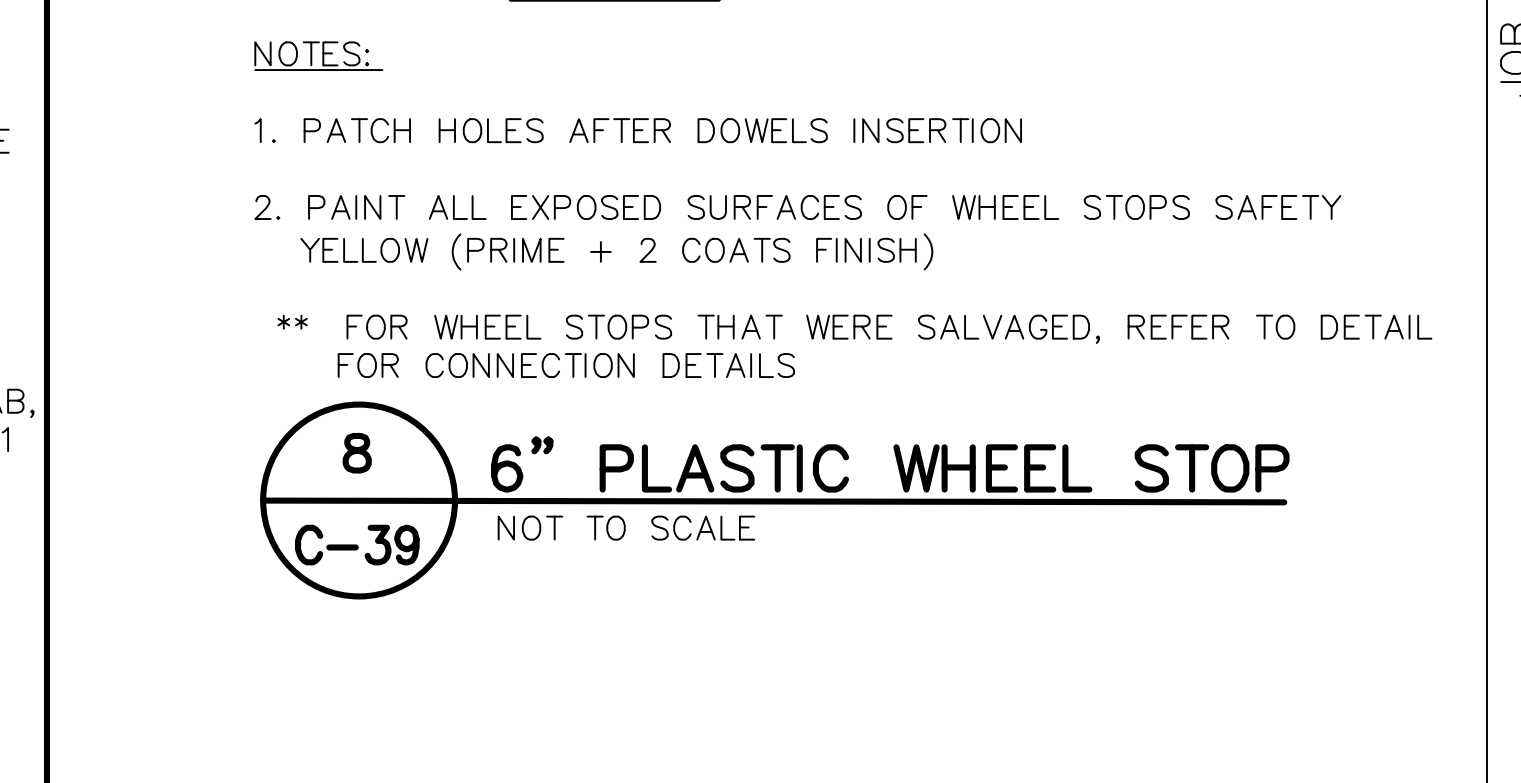
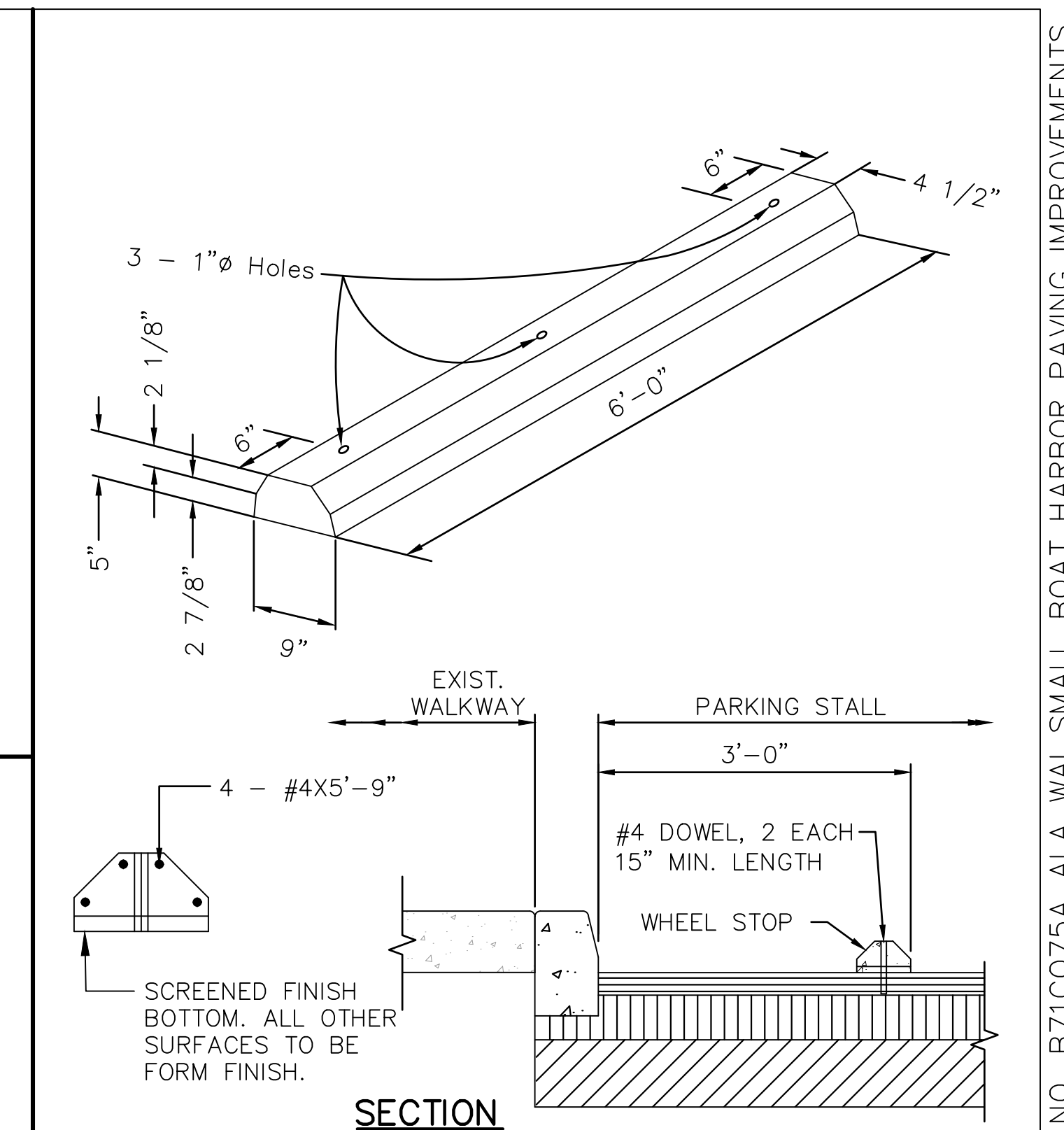
5 CONCRETE SIDEWALK RESTORATION AND CONNECTION DETAIL
C-39 NOT TO SCALE



6 ADJUSTMENT OF VALVE BOX
C-39 NOT TO SCALE



7 DRIVEWAY APRON DETAIL
C-39 NOT TO SCALE

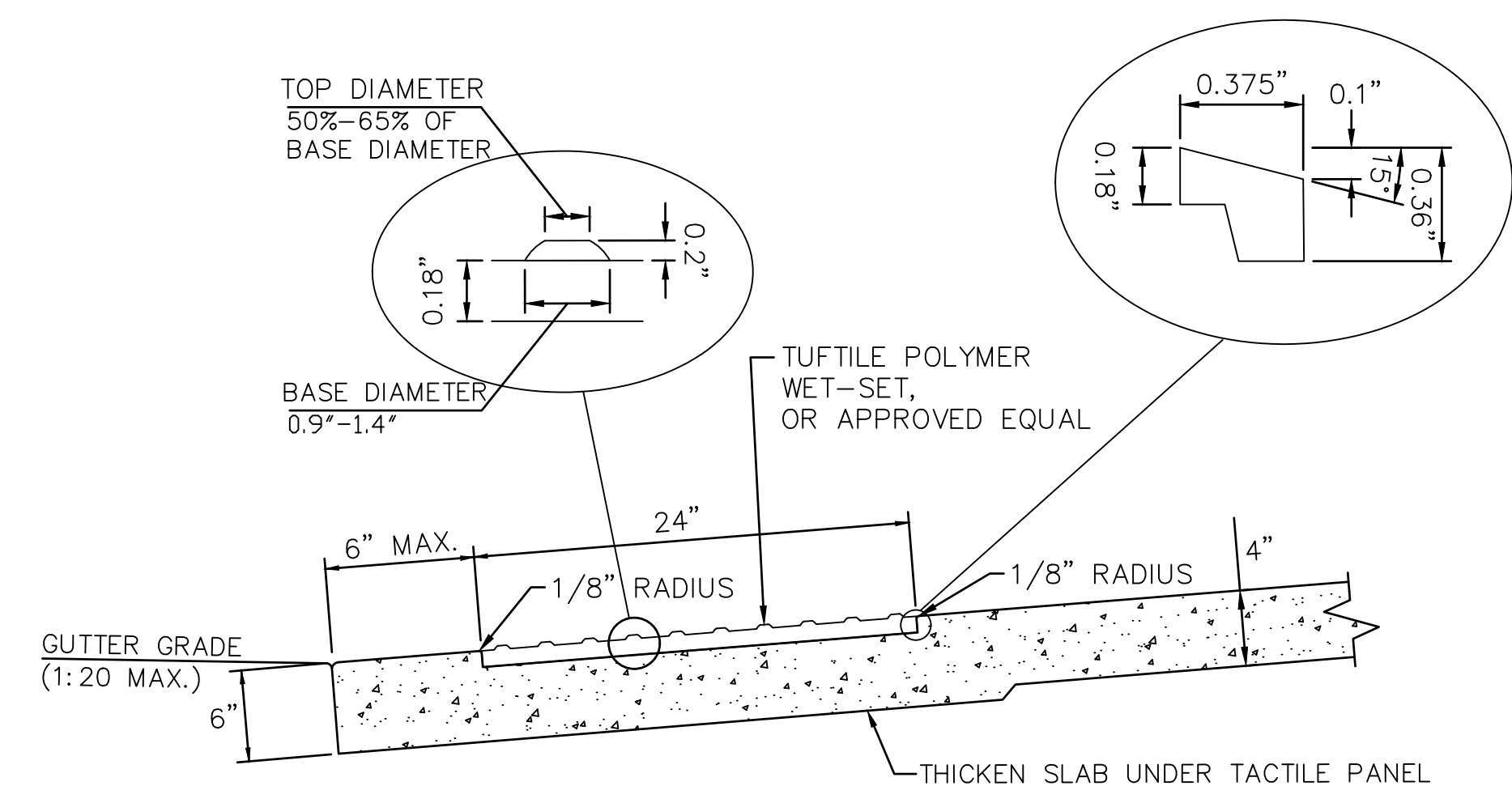


8 6\"/>

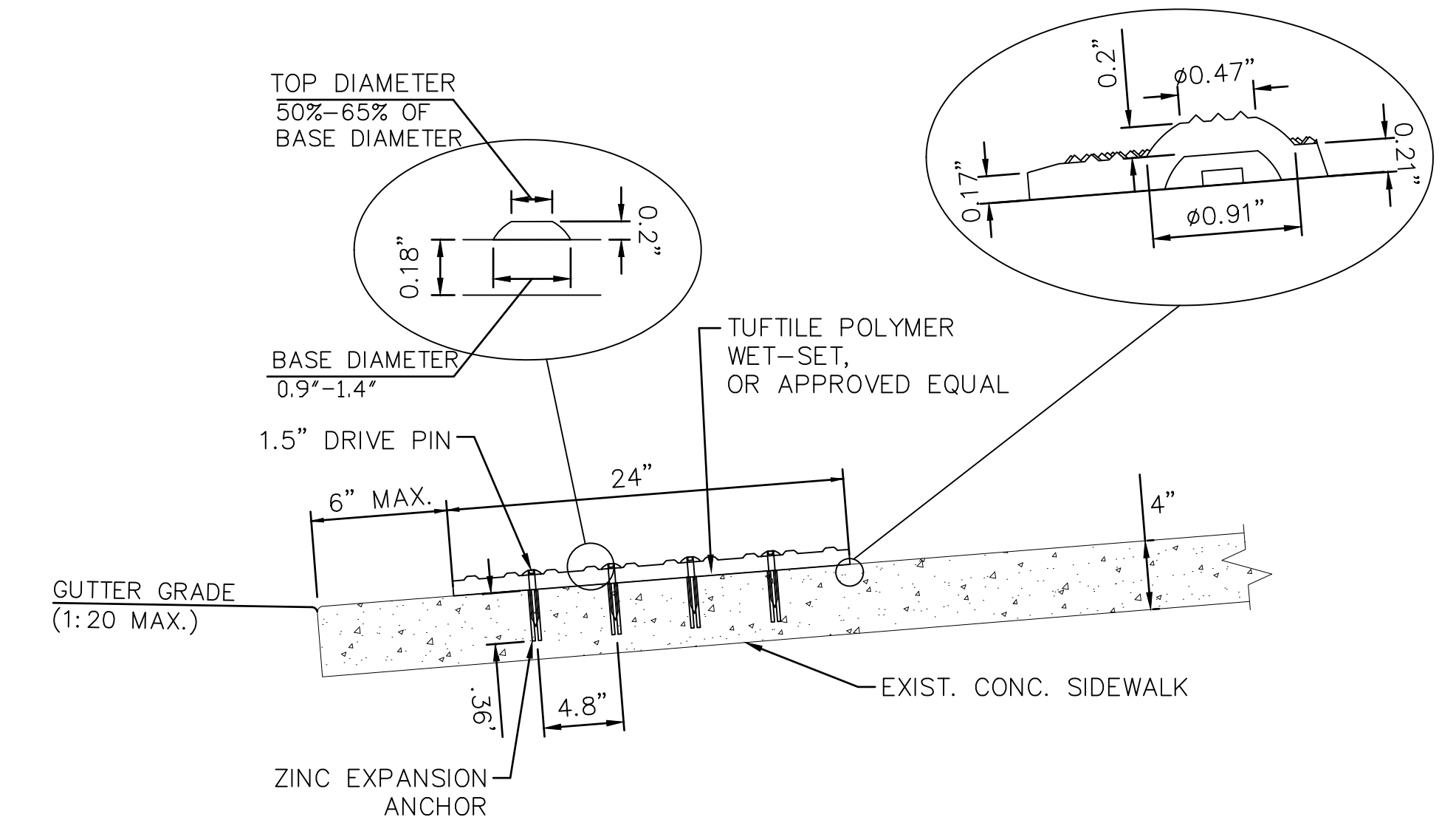
- NOTES:
- DRIVEWAYS SHALL COMPLY WITH CITY & COUNTY OF HONOLULU STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION R-29A DATED JULY 2009.
 - THE FINISHED SURFACE OF APRONS SHALL BE BROOM FINISHED PERPENDICULAR TO THE ROADWAY.
 - THE LONGITUDINAL AND TRANSVERSE CONTRACTION JOINTS ARE SHOWN FOR GUIDANCE ONLY. JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ENGINEERING AND POLICY MEMORANDUM NO. CEB-1-11, NO. CEB-1-09 AND DESIGN GUIDELINES DETAIL DG-1.
 - DRIVEWAY RAMP GRADE TO MATCH EXISTING RAMP AND SIDEWALK GRADE. NO EXISTING DRAINAGE PATTERNS SHALL BE ALTERED.
 - BREAKOVER AND DEPARTURE ANGLES SHALL NOT EXCEED 10 DEGREES OR 17%.

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
SITE DETAILS 02					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			DATE		
			C-39		

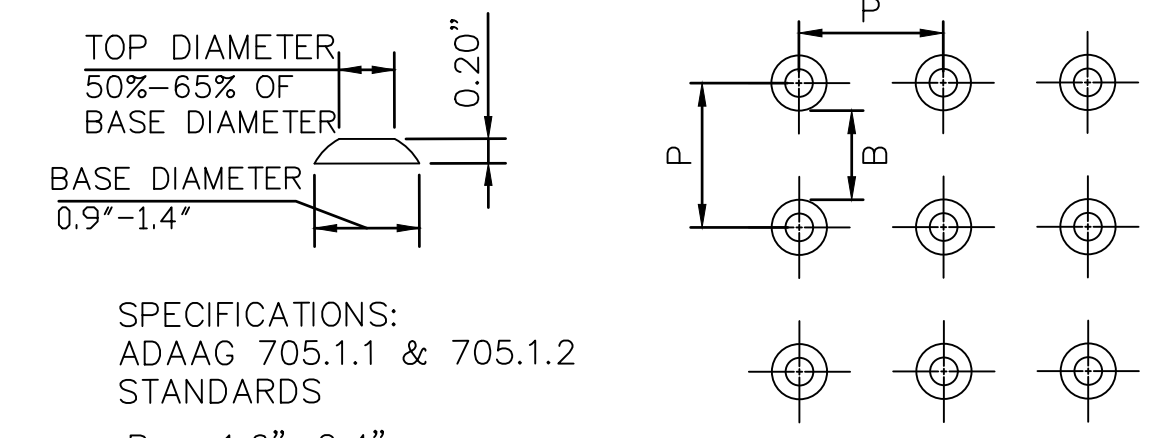
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Last Saved: 5/7/2026
Plotted on: 5/7/2026
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CROSS SECTION OF DETECTABLE WARNING PANEL (WET SET TYPE)



CROSS SECTION OF DETECTABLE WARNING PANEL (SURFACE-APPLIED TYPE)



TRUNCATED DOME SPACING AND DETAILS

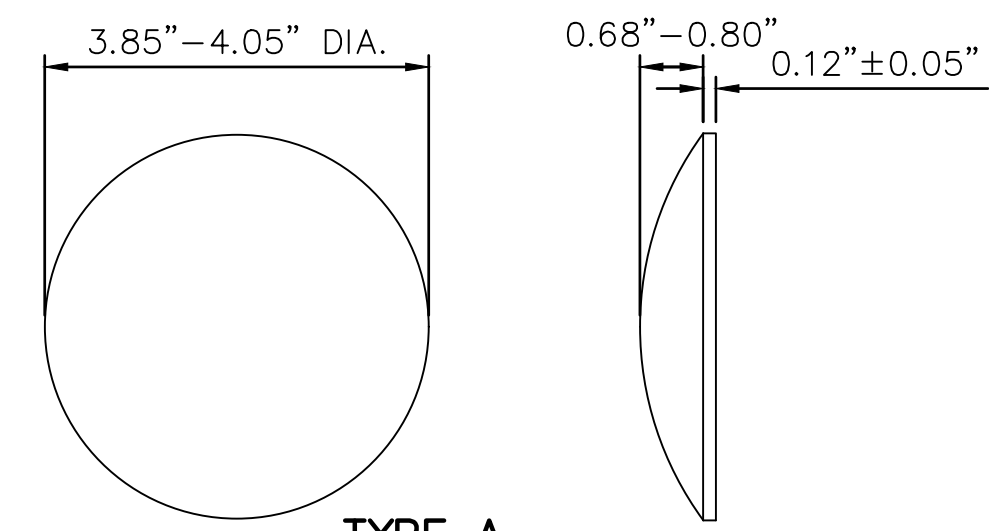
NOTES:

1. DETECTABLE WARNING PANEL SHALL COMPLY WITH ADAAG SECTION 705.
2. COLOR OF DETECTABLE WARNING PANEL SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES IN ACCORDANCE WITH ADAAG SUBSECTION 705.1.3.
3. DETECTABLE WARNING PANEL SHALL BE 24" WIDE AND EXTEND THE FULL LENGTH OF CURB RAMP PER ADAAG SUBSECTION 705.1 AND AS SHOWN ON THE PLANS.

1 DETECTABLE WARNING DETAILS
C-40 NOT TO SCALE

Last Save by: ACHEN
Last Saved: 5/7/2026
Plotted on: 5/7/2026
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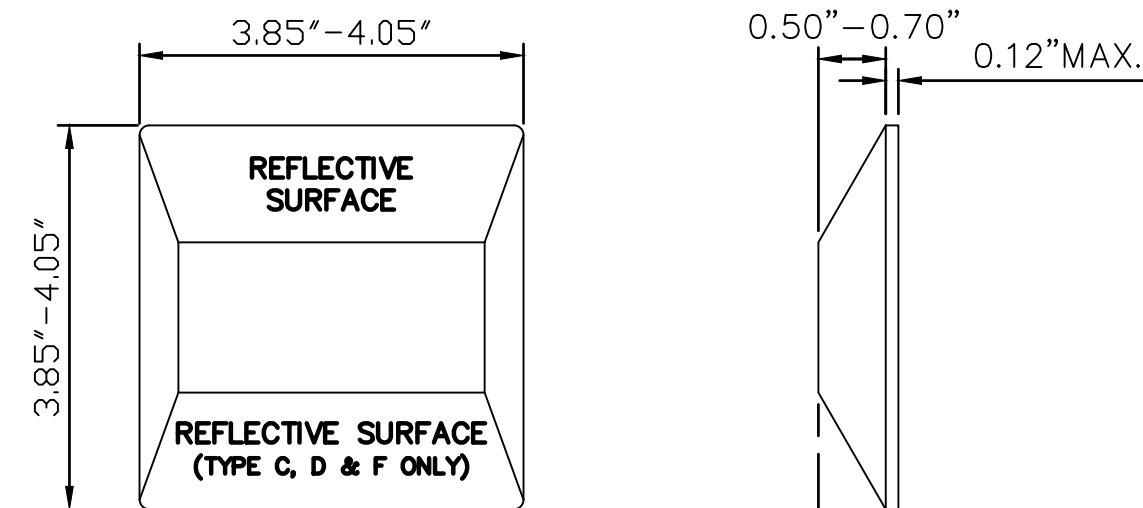
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STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
SITE DETAILS 03					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:					DRAWING NO.
CHIEF ENGINEER					C-40



- TYPE A
NON-REFLECTIVE WHITE MARKER
- TYPE J
NON-REFLECTIVE YELLOW MARKER

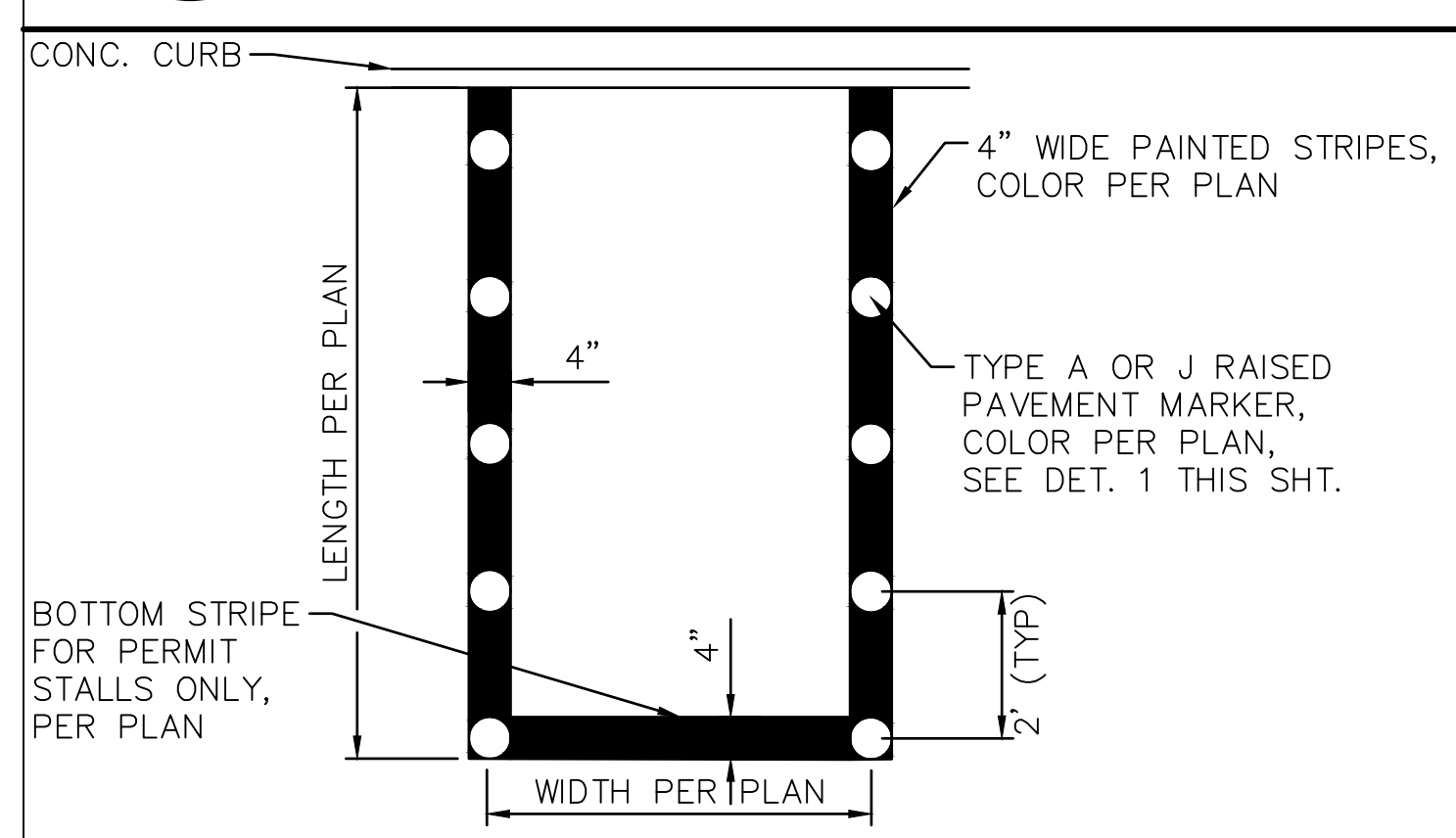
NOTES:

1. PAVEMENT MARKING AND STRIPING SHALL CONFORM TO THE LATEST "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AS AMENDED.
2. LAYOUT AND INSTALLATION OF PAVEMENT STRIPING SHALL BE DONE BY THE CONTRACTOR. THE CONTRACTOR SHALL CHECK THE LAYOUTS WITH THE ENGINEER PRIOR TO PERFORMING WORK.
3. EDGE LINES SHALL NOT BE CONTINUED THROUGH INTERSECTIONS AND SHALL NOT BE BROKEN FOR DRIVEWAYS UNLESS OTHERWISE SHOWN OR DIRECTED.



- TYPE C
RED-CLEAR REFLECTIVE MARKER
- TYPE D
TWO-WAY YELLOW REFLECTIVE MARKER
- ▣ TYPE E
TWO-WAY BLUE REFLECTIVE MARKER
(FIRE HYDRANT MARKER)
- TYPE H
ONE-WAY YELLOW REFLECTIVE MARKER

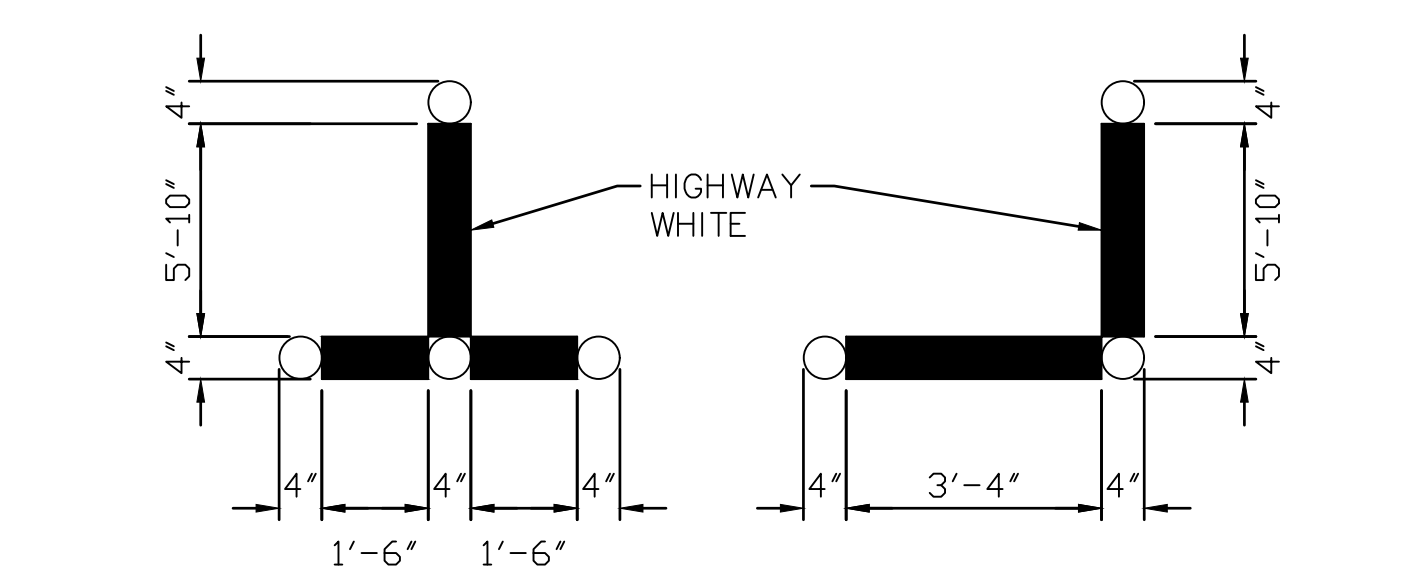
1 RAISED PAVEMENT MARKER DETAILS
C-41 NOT TO SCALE



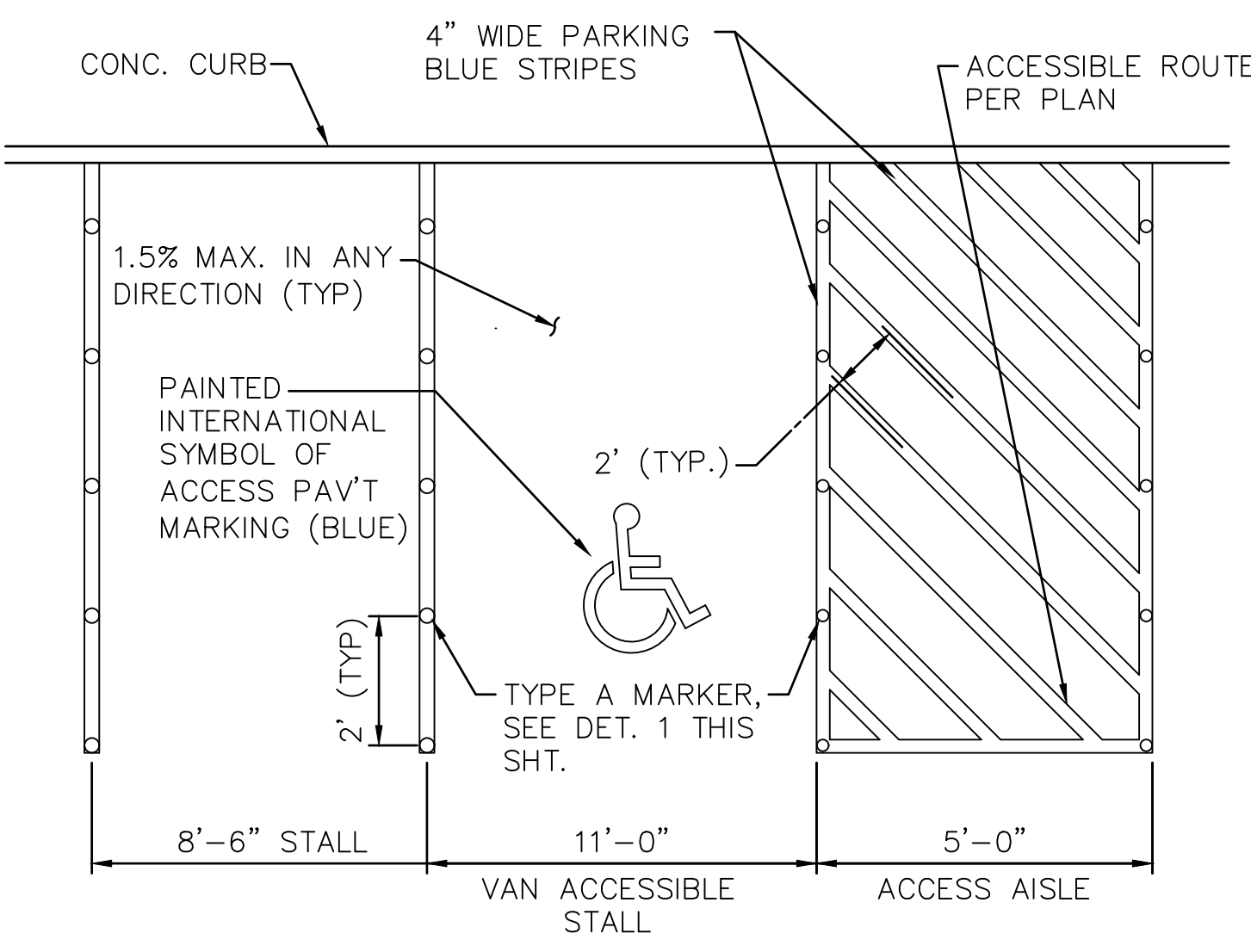
NOTES: INSTALL NON-REFLECTIVE MARKER BEFORE PAINTING STRIPES

COLORS:
PERMIT ONLY STALLS: YELLOW PAINT WITH TYPE J RPM
PAID & FREE PUBLIC PARKING: WHITE PAINT WITH TYPE A RPM
ADA ACCESSIBLE STALLS: BLUE PAINT WITH TYPE A RPM

2 TYPICAL PARKING STALL MARKINGS
C-41 NOT TO SCALE



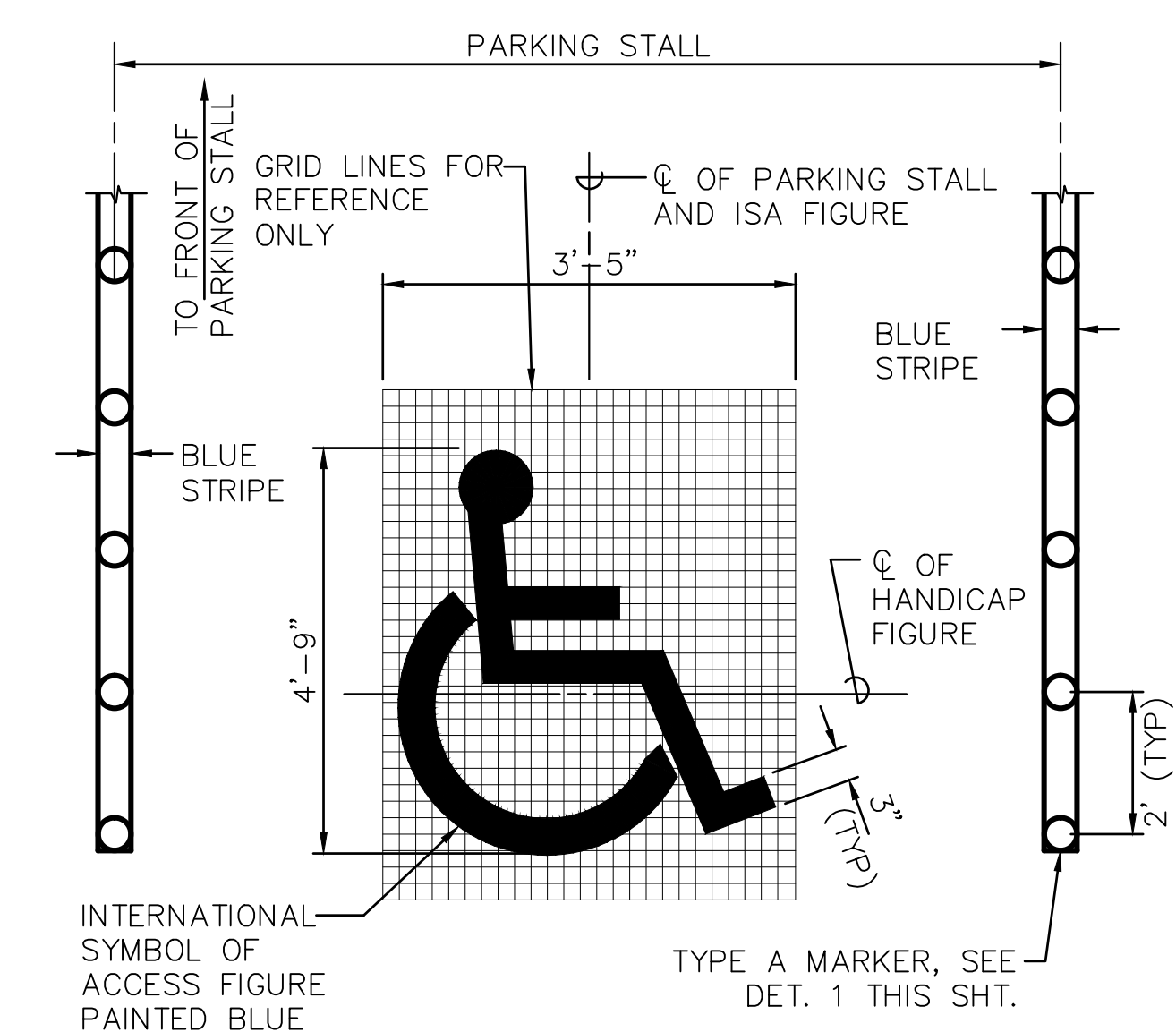
3 TYPICAL PARALLEL STALL MARKINGS
C-41 NOT TO SCALE



NOTES:

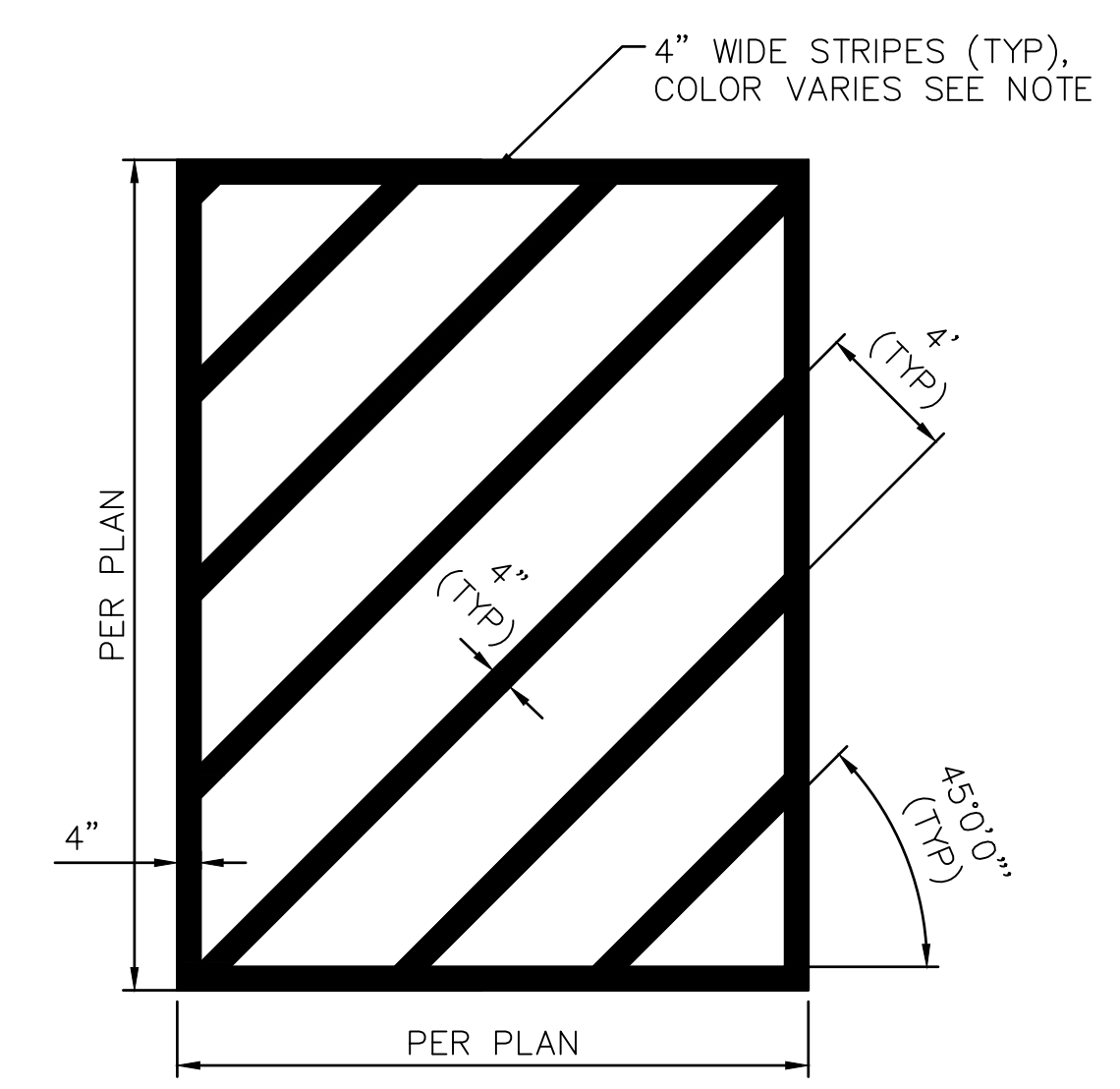
1. REPLACE EXIST SIGNS WITH NEW SIGNS SEE DETAIL THIS SHT.

4 VAN ACCESSIBLE ADA PARKING LAYOUT
C-41 NOT TO SCALE

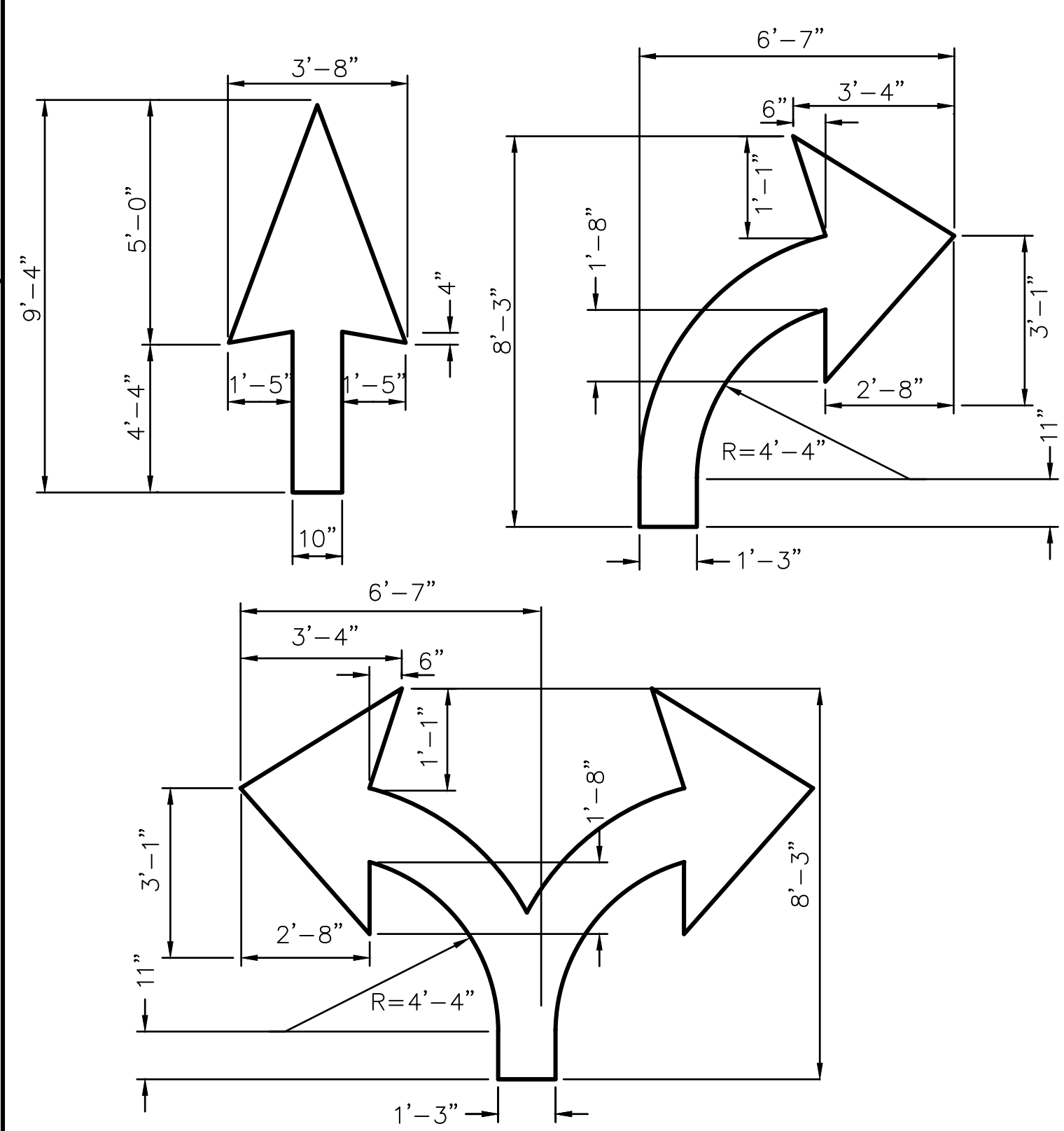


5 HANDICAPPED PAV'T MARKING
C-41 NOT TO SCALE

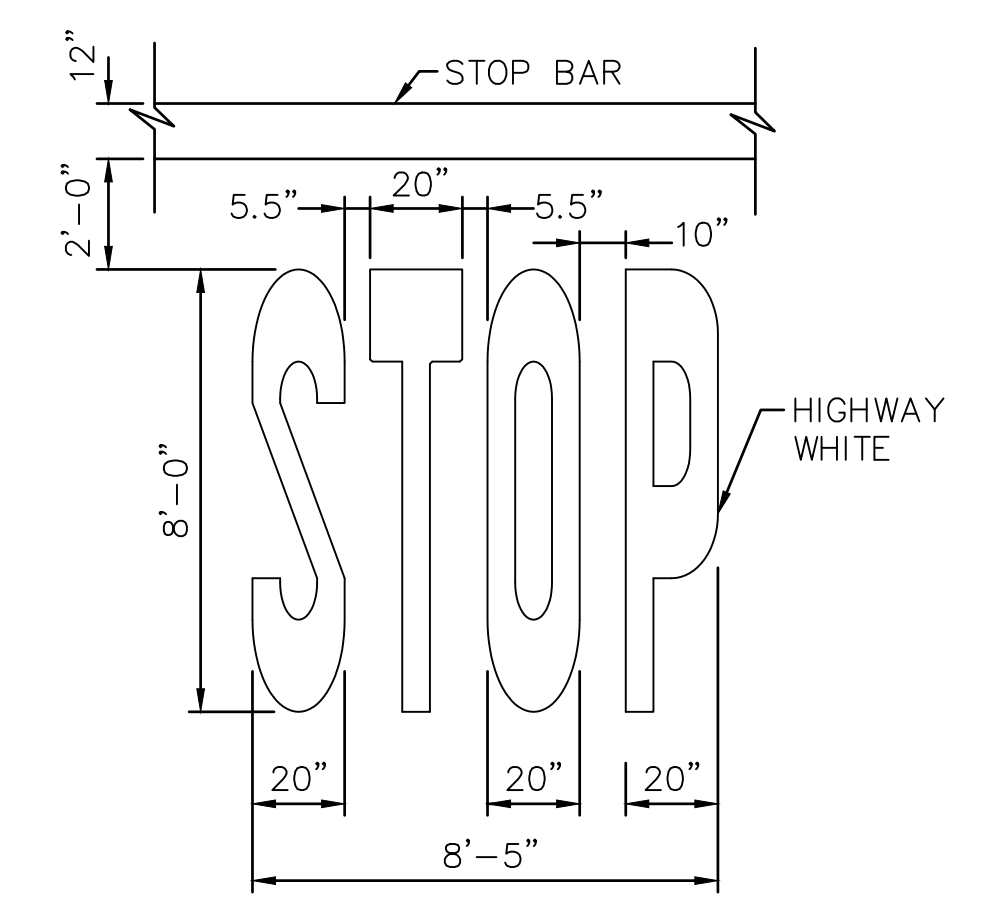
COLORS:
MEDIAN STRIPING: YELLOW
SHOULDER STRIPING: WHITE
ADA ACCESSIBLE PATH: BLUE OUTLINE WITH WHITE STRIPES



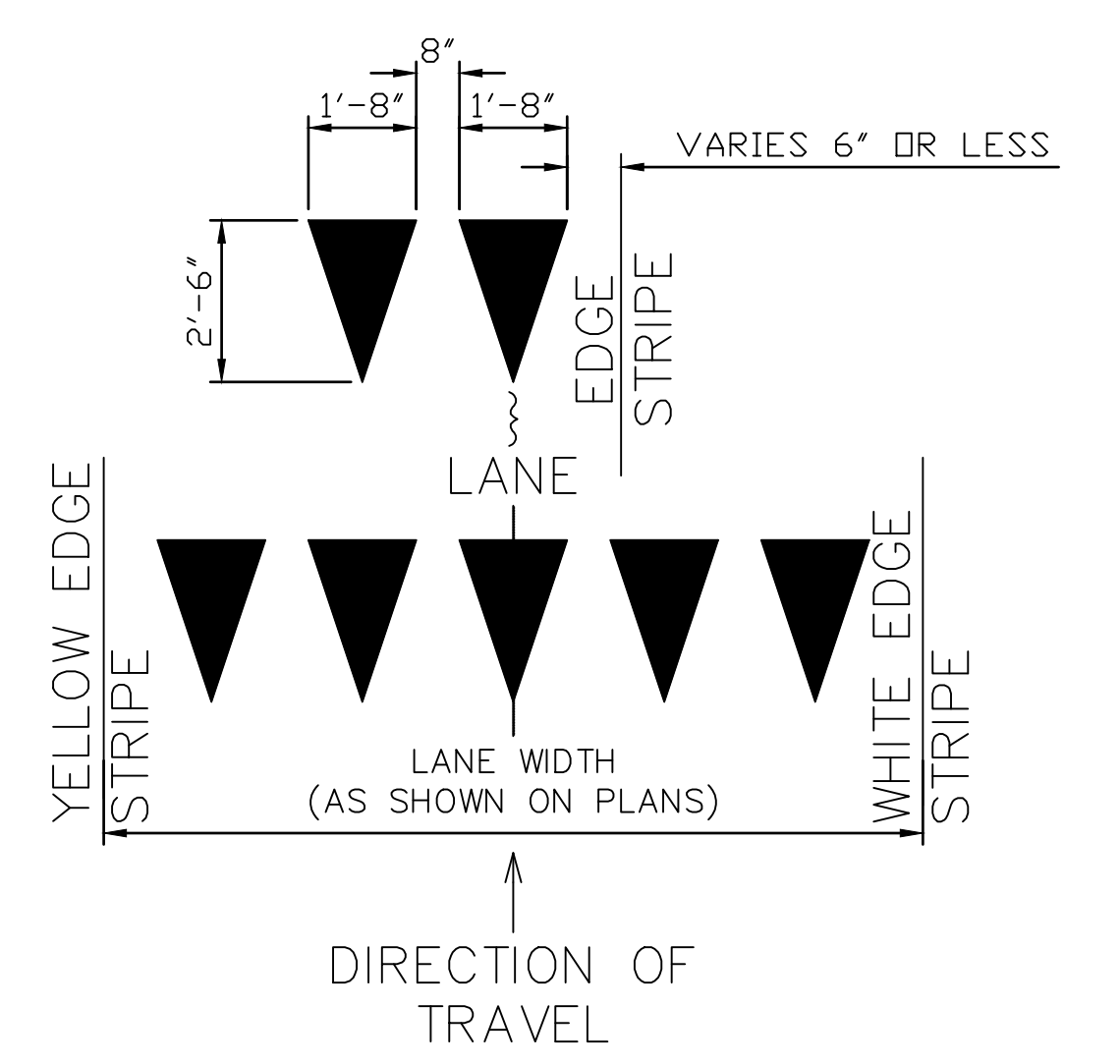
6 TRANSVERSE PAV'T STRIPING DETAIL
C-41 NOT TO SCALE



7 PAVEMENT ARROW DETAIL
C-41 NOT TO SCALE



8 "STOP" PAV'T MARKING DETAIL
C-41 NOT TO SCALE

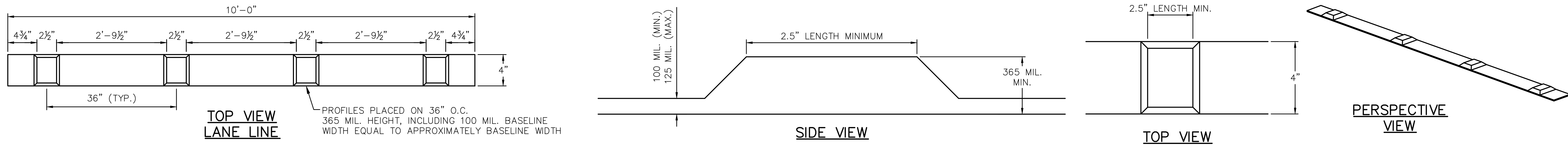


9 YIELD LINE
C-41 NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
STRIPING & SIGNAGE DETAILS 01					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			DATE		
			C-41		

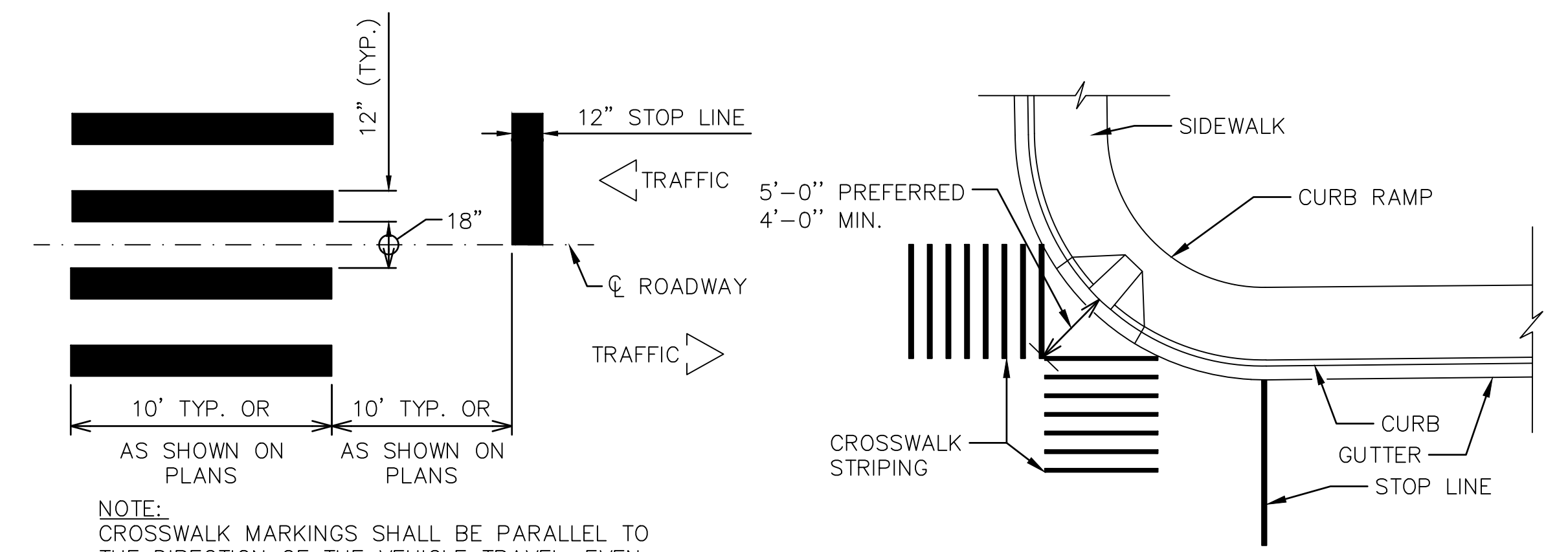
Last Save by: KJM
 Last Saved: 5/6/2026
 Plotted on: 5/7/2026
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JOB NO. B71C075A ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS



- NOTES:
1. THE THERMOPLASTIC MATERIAL SHALL BE ALKYD-BASED COMPOUND FORMULATED FOR PROFILED PAVEMENT MARKING. SEE SPECS SUBSECTION 629.03 FOR ADDITIONAL REQUIREMENTS.
 2. THE ENGINEER WILL INCLUDE THE LONGITUDINAL GAPS FOR SKIP STRIPING, UP TO THIRTY (30) FEET LONG, IN THE MEASUREMENT FOR PAYMENT.
 3. INSTALL YELLOW PROFILED THERMOPLASTIC STRIPES FOR CENTERLINE PASSING ZONE.

1 PROFILED THERMOPLASTIC STRIPING DETAIL
C-42 NOT TO SCALE

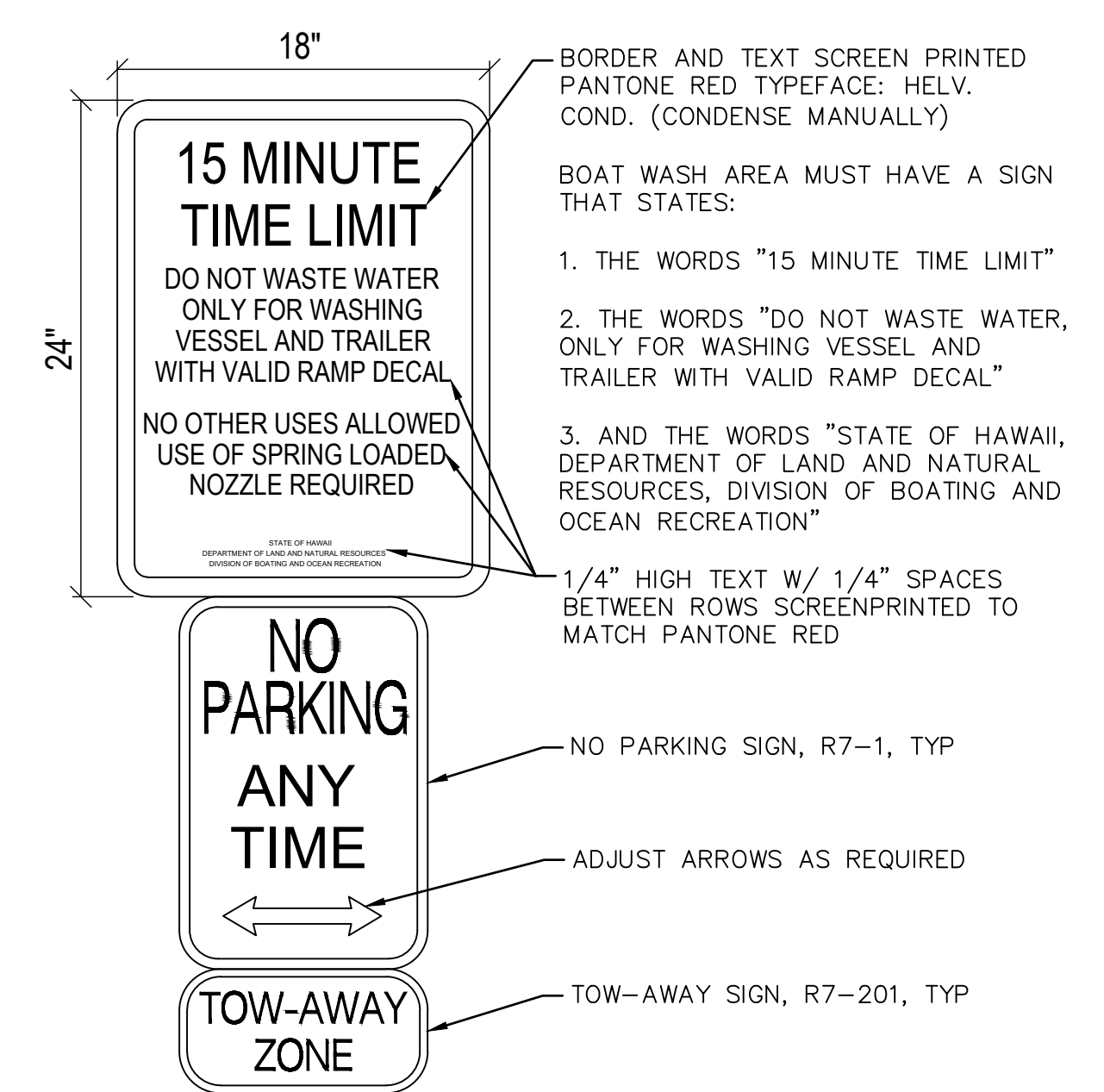


NOTE: CROSSWALK MARKINGS SHALL BE PARALLEL TO THE DIRECTION OF THE VEHICLE TRAVEL, EVEN IF THE CROSSWALK IS SKEWED TO ROADWAY.

CROSSWALK STRIPING DETAIL

TYPICAL CROSSWALK STRIPING AT DIAGONAL CURB RAMP

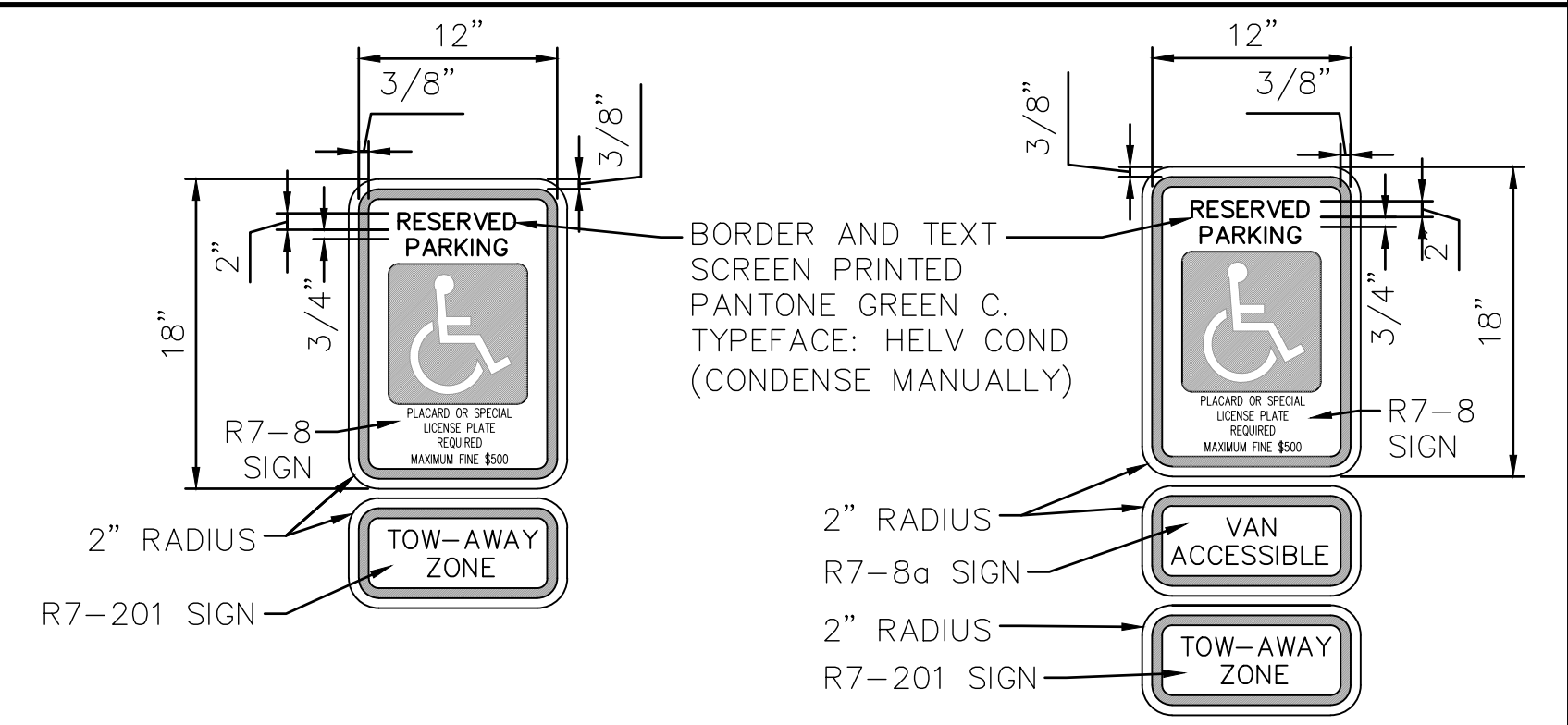
2 CROSSWALK DETAIL
C-42 NOT TO SCALE



- BORDER AND TEXT SCREEN PRINTED PANTONE RED TYPEFACE: HELV. COND. (CONDENSE MANUALLY)
- BOAT WASH AREA MUST HAVE A SIGN THAT STATES:
1. THE WORDS "15 MINUTE TIME LIMIT"
 2. THE WORDS "DO NOT WASTE WATER, ONLY FOR WASHING VESSEL AND TRAILER WITH VALID RAMP DECAL"
 3. AND THE WORDS "STATE OF HAWAII, DEPARTMENT OF LAND AND NATURAL RESOURCES, DIVISION OF BOATING AND OCEAN RECREATION"
- 1/4" HIGH TEXT W/ 1/4" SPACES BETWEEN ROWS SCREENPRINTED TO MATCH PANTONE RED

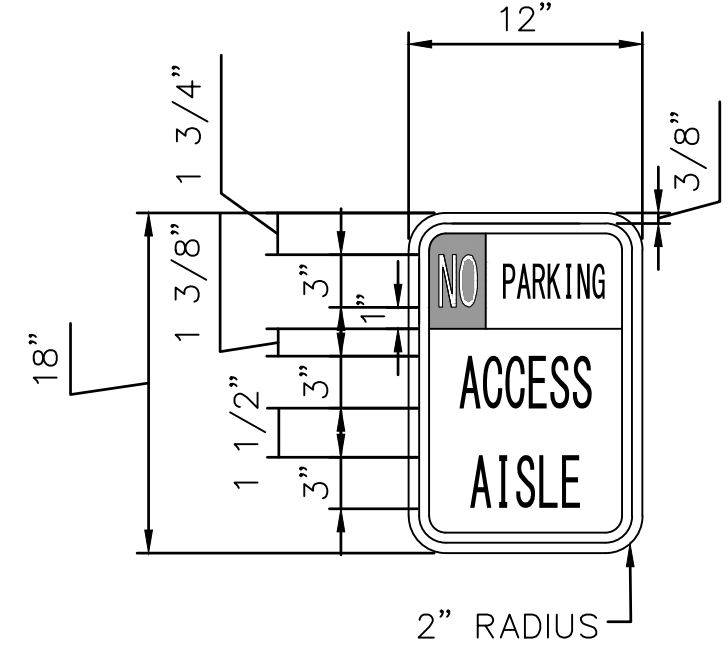
- NO PARKING SIGN, R7-1, TYP
- ADJUST ARROWS AS REQUIRED
- TOW-AWAY SIGN, R7-201, TYP

5 TYPICAL BOAT WASH SIGN
C-42 NOT TO SCALE



RESERVED PARKING SIGN FOR DISABLED PERSONS

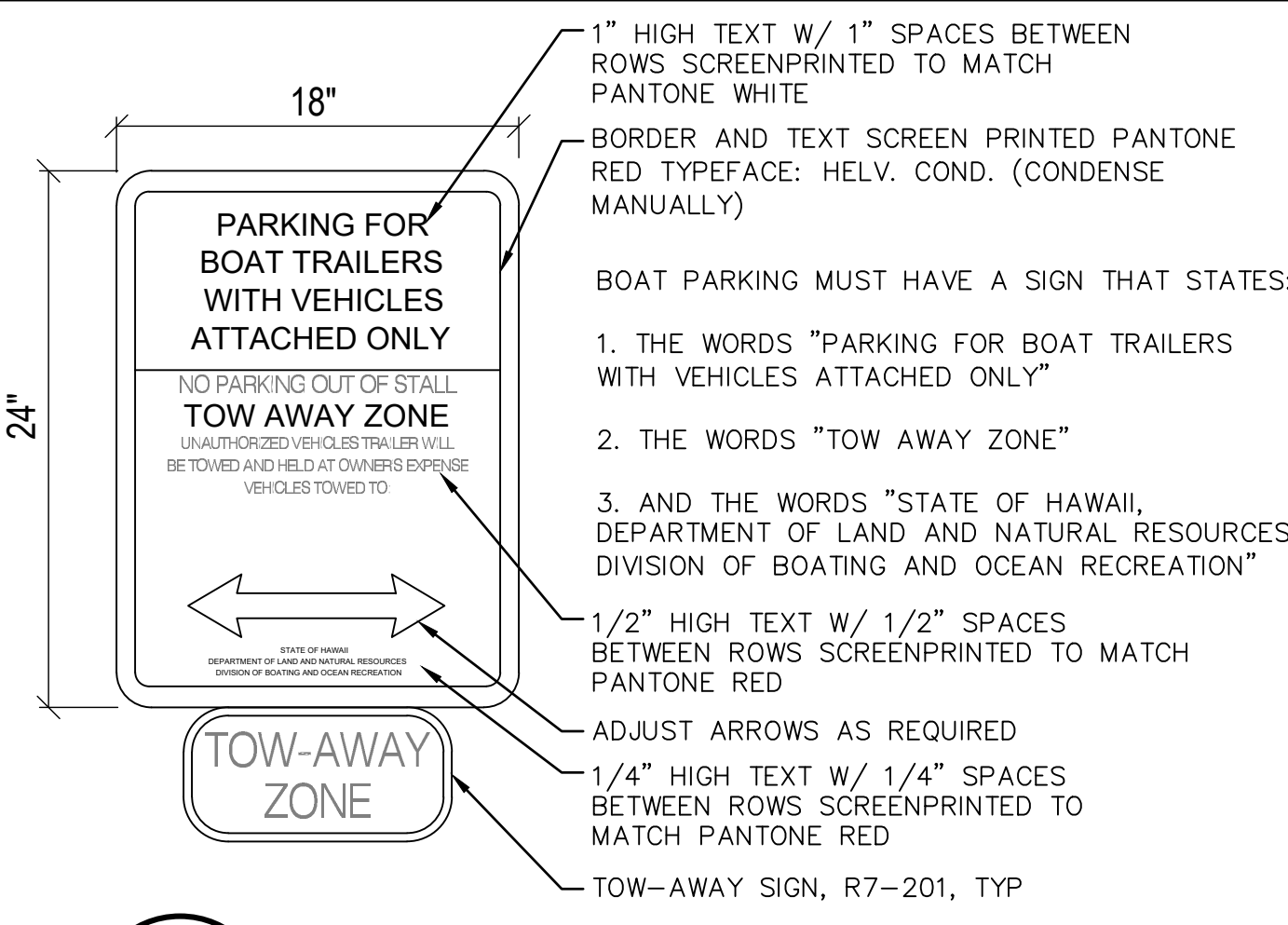
RESERVED PARKING SIGN FOR VAN ACCESSIBLE STALL



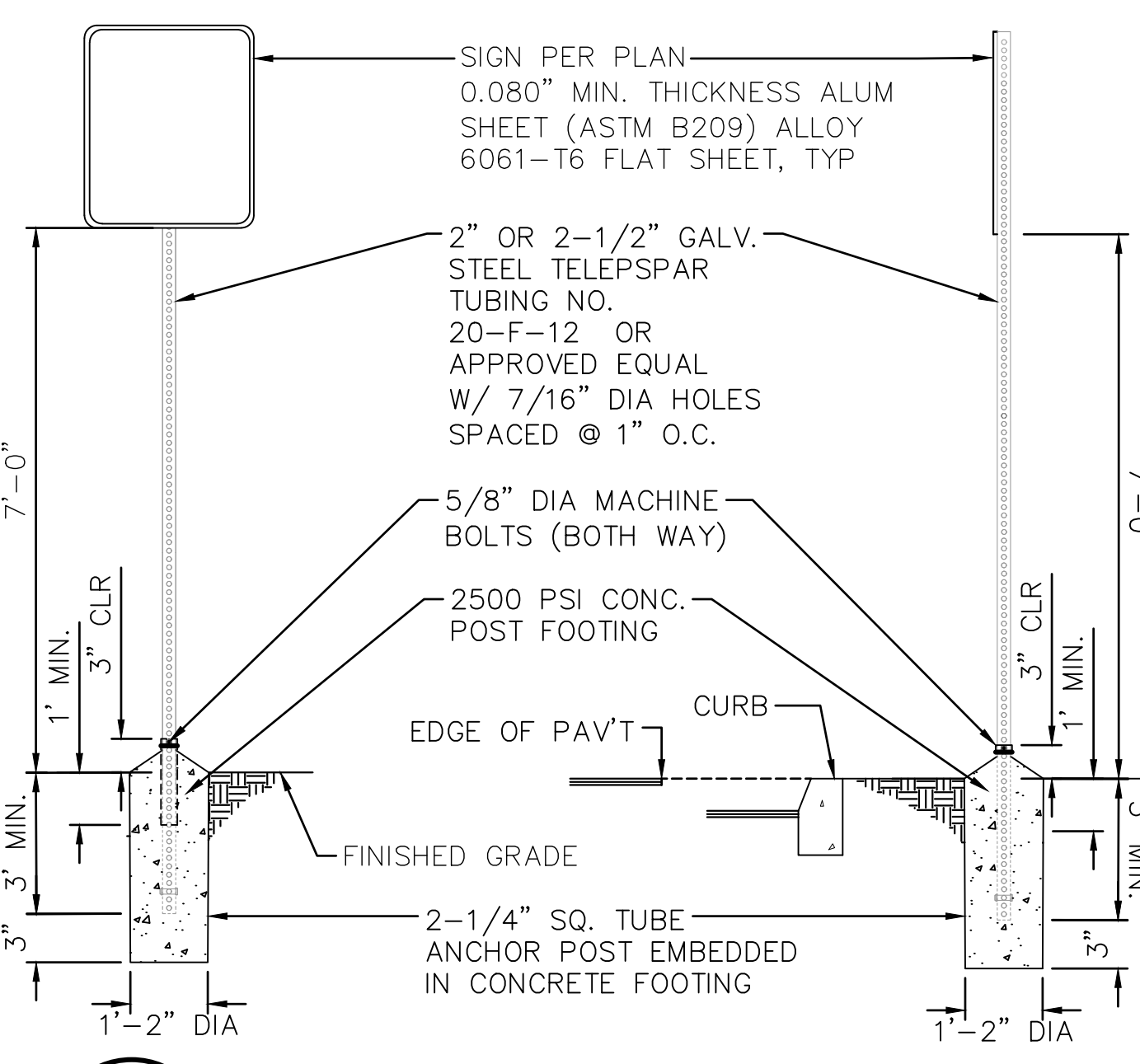
TYPICAL ACCESS AISLE SIGN

7 ACCESS PARKING SIGN DETAILS
C-42 NOT TO SCALE

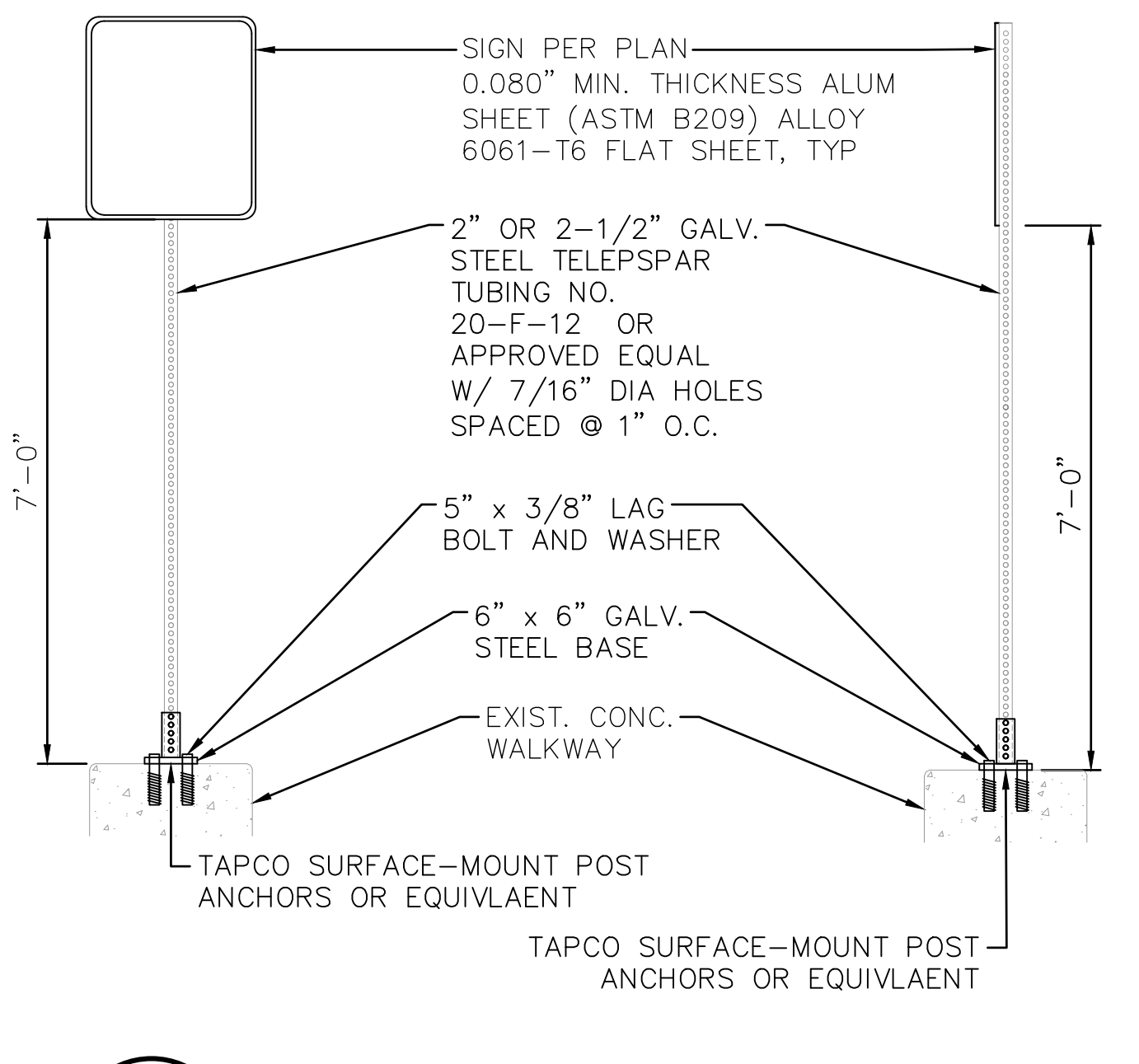
- NOTES:
1. SIGNS SHALL BE ALUM T6061 SHEET COVERED WITH ENGINEERING GRADE REFLECTIVE SHEETING.
 2. SIGN LETTERING SHALL BE UPPERCASE LETTERS OF THE TYPE APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.



6 TYPICAL BOAT PARKING SIGN
C-42 NOT TO SCALE



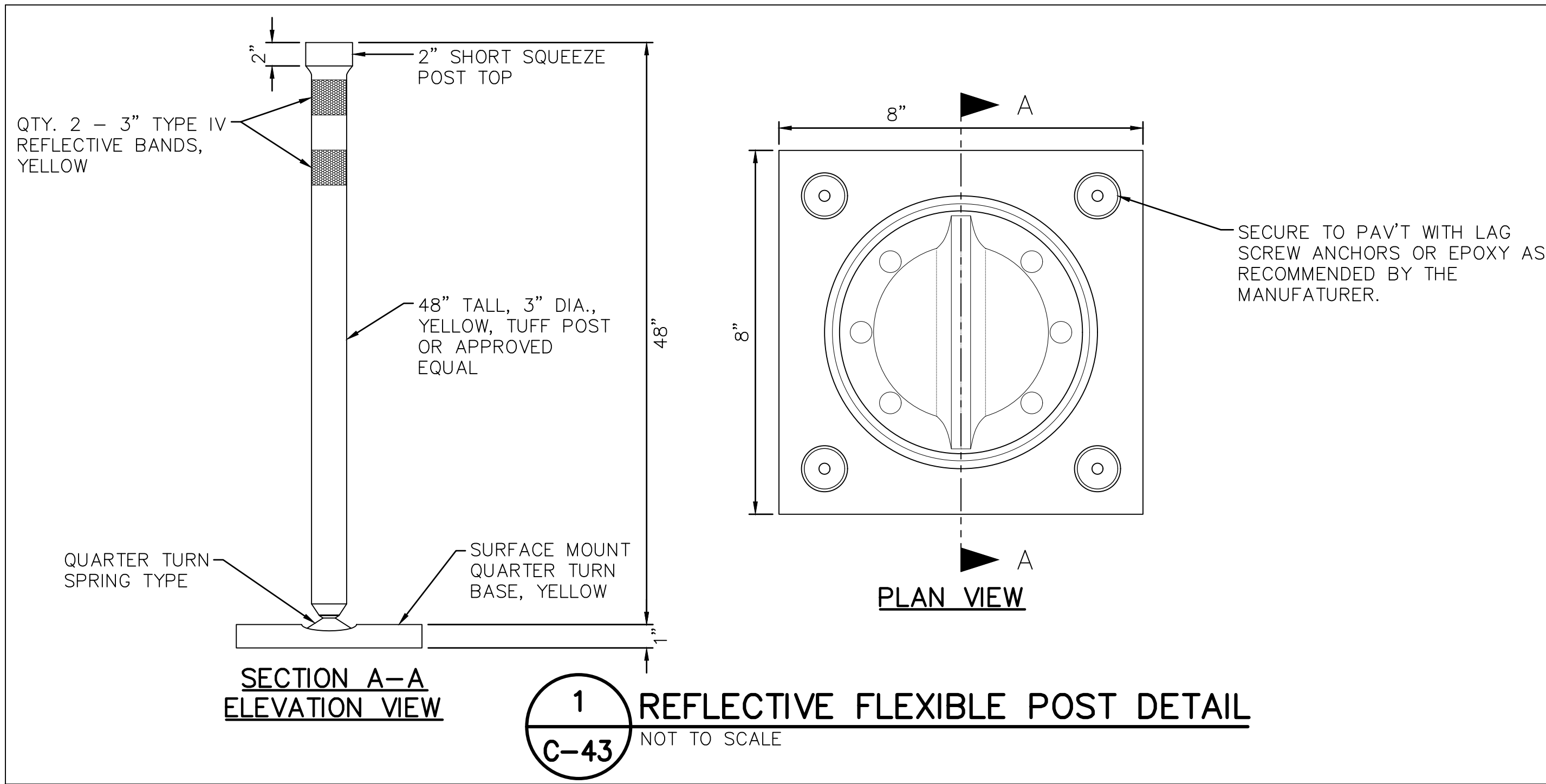
3 CONCRETE EMBEDDED SIGN POST
C-42 NOT TO SCALE



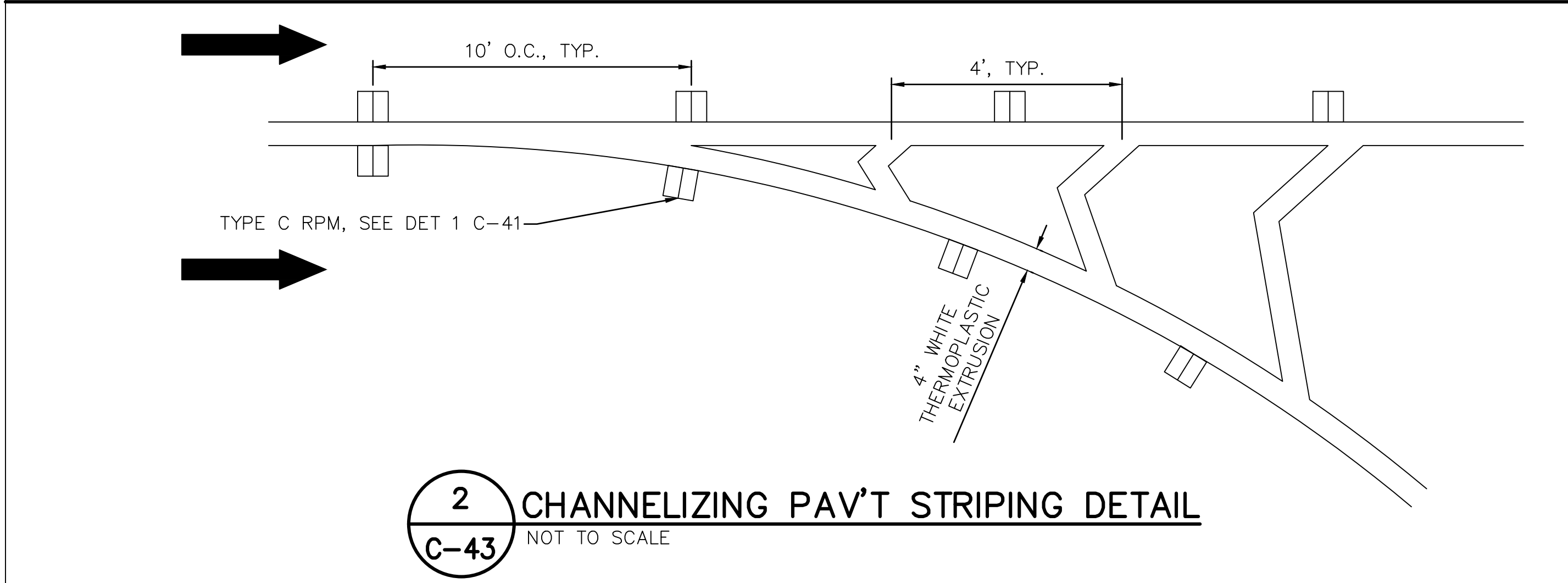
4 SURFACE MOUNTED SIGN POST
C-42 NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
STRIPING & SIGNAGE DETAILS 02					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			DATE		
			C-42		

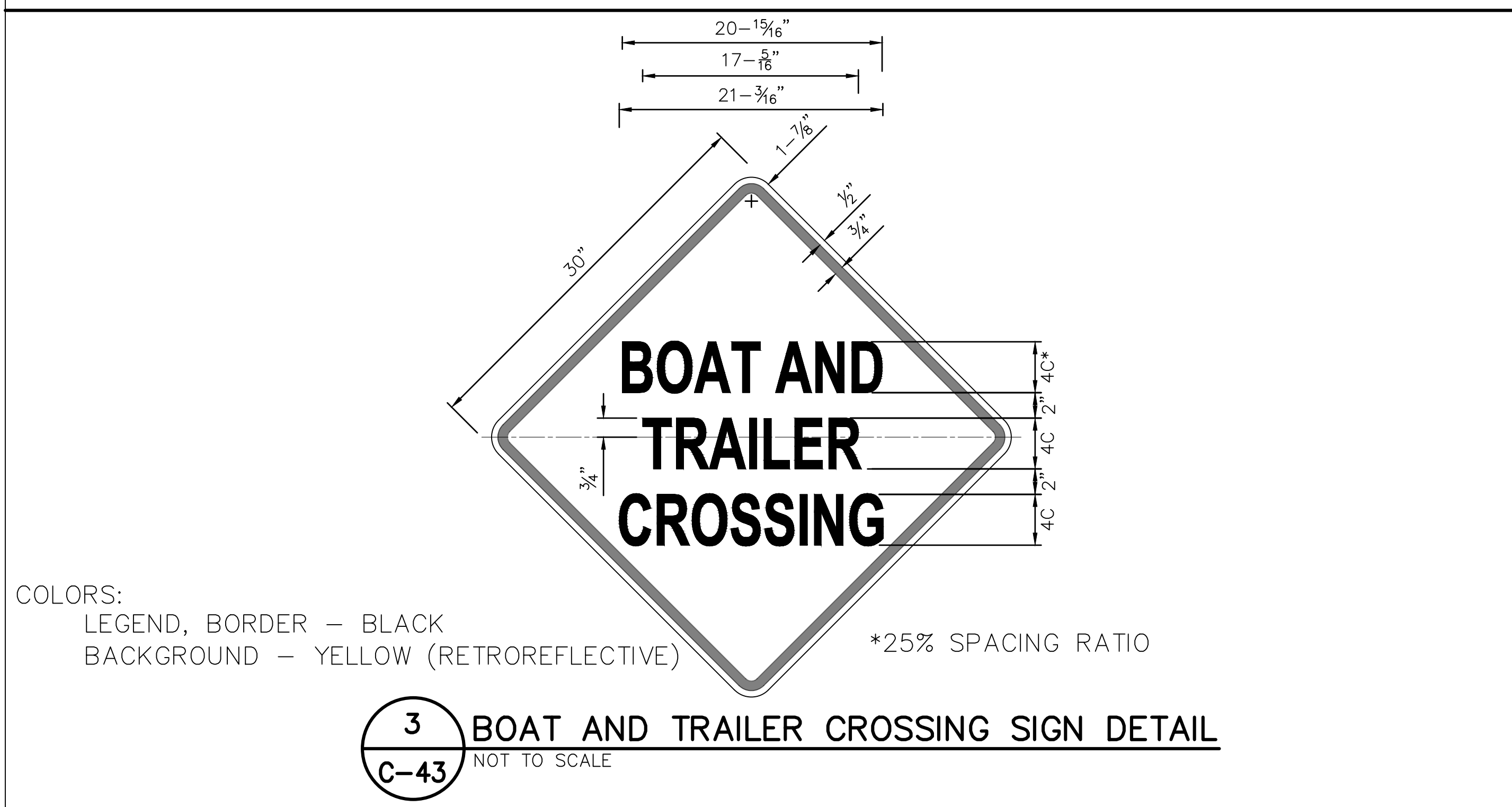
Last Save by: ACHEN
Last Saved: 5/7/2026
Plotted on: 5/7/2026
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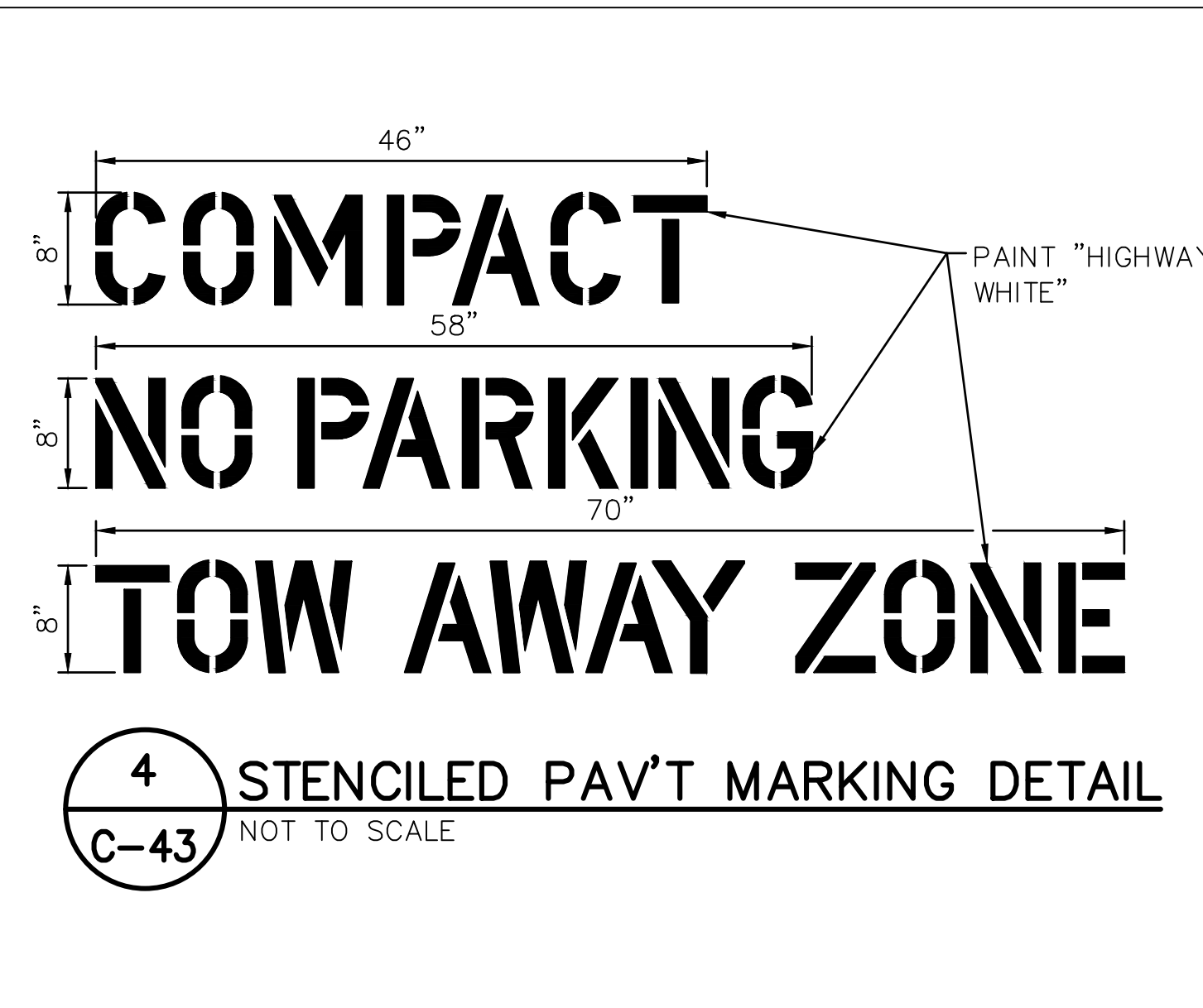
1 REFLECTIVE FLEXIBLE POST DETAIL
C-43 NOT TO SCALE



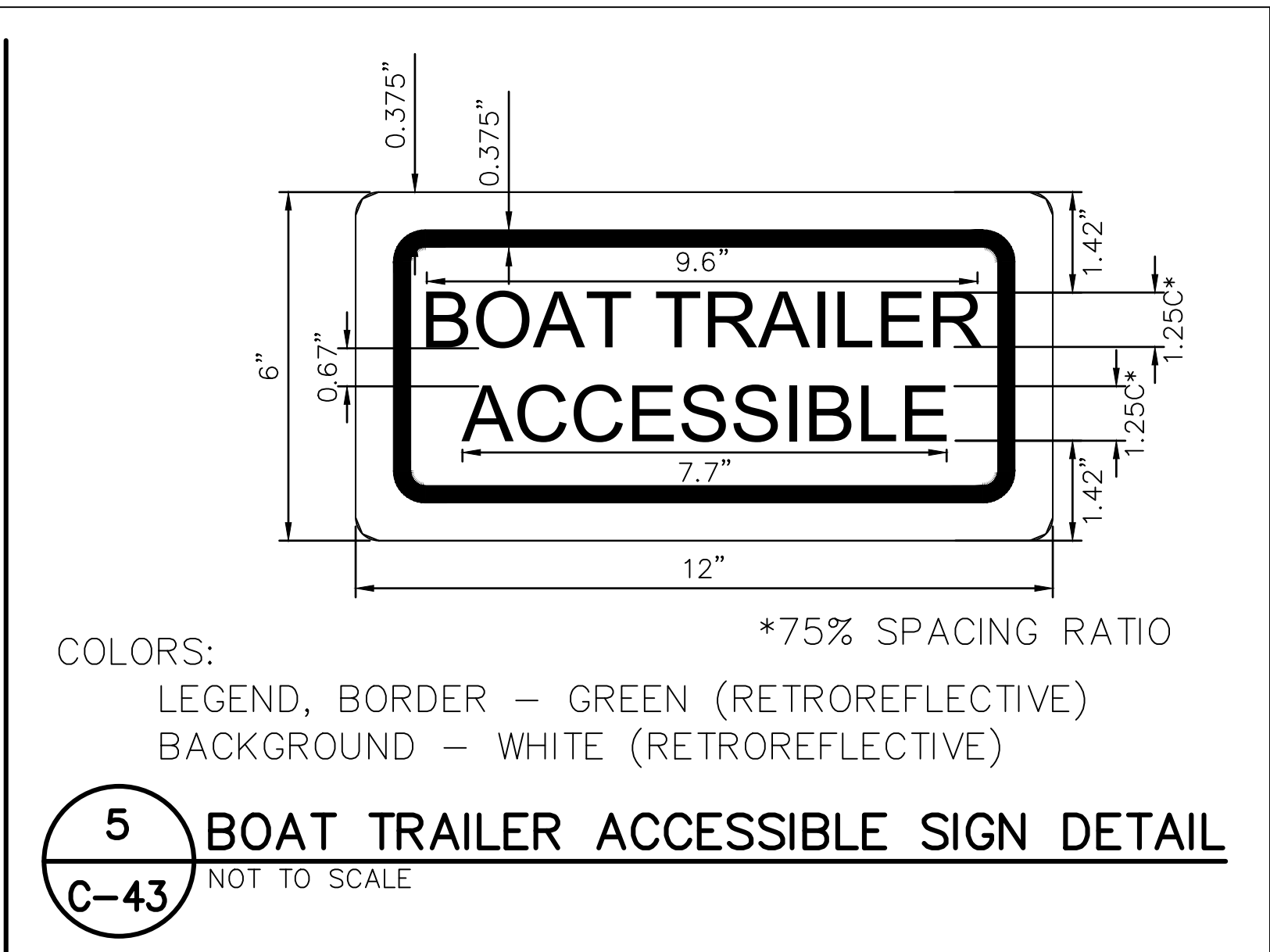
2 CHANNELIZING PAV'T STRIPING DETAIL
C-43 NOT TO SCALE



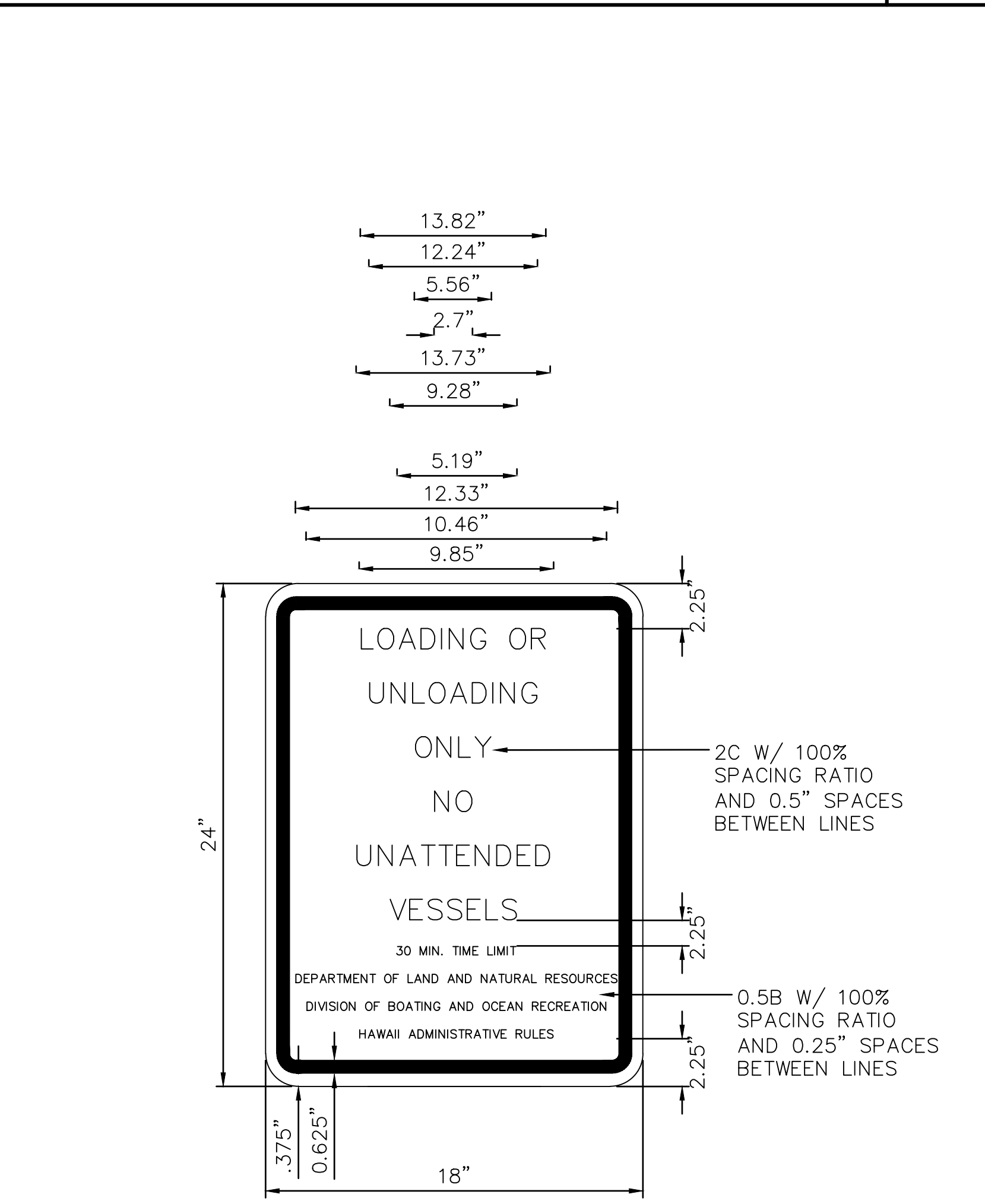
3 BOAT AND TRAILER CROSSING SIGN DETAIL
C-43 NOT TO SCALE



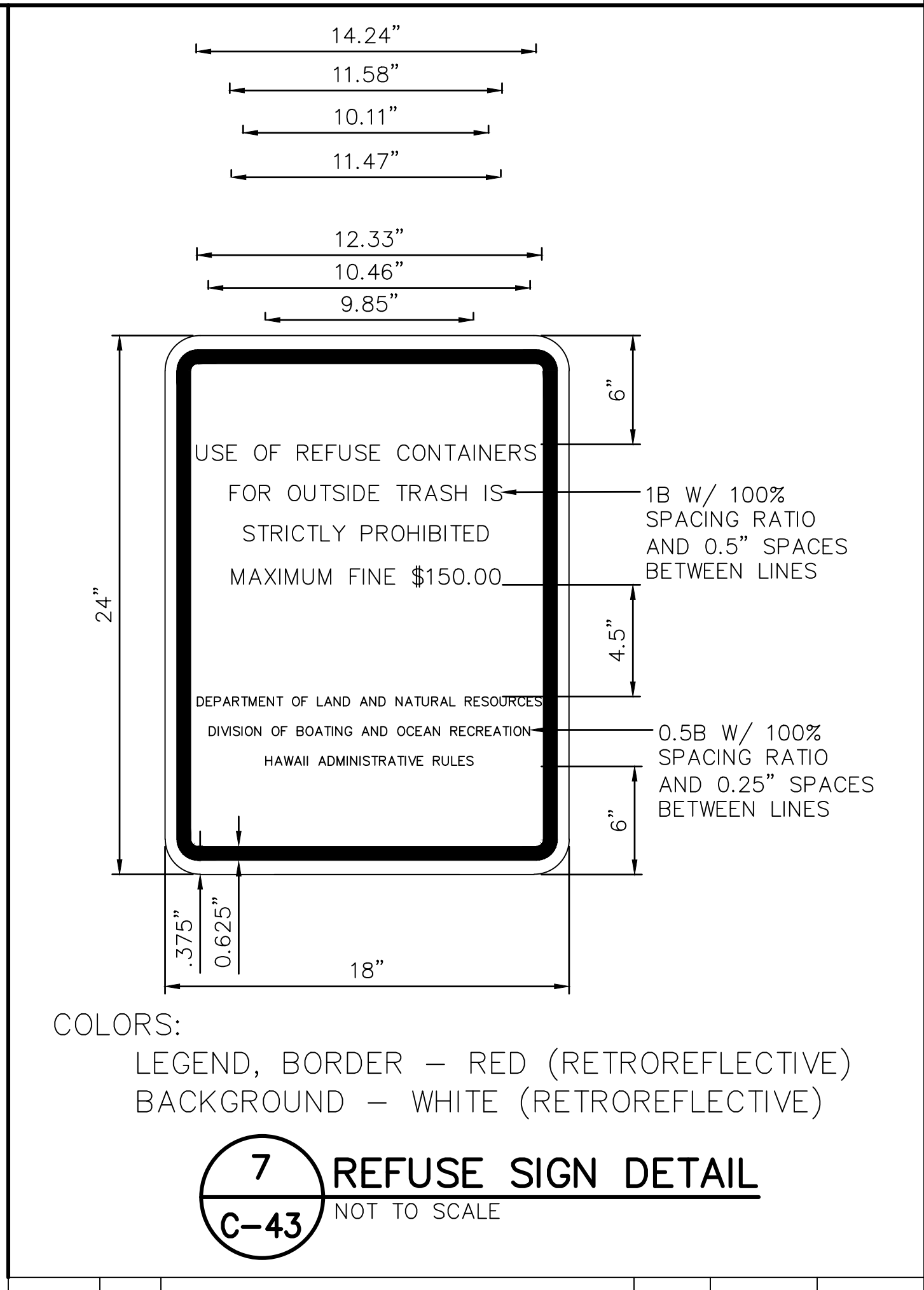
4 STENCILED PAV'T MARKING DETAIL
C-43 NOT TO SCALE



5 BOAT TRAILER ACCESSIBLE SIGN DETAIL
C-43 NOT TO SCALE



6 LOADING SIGN DETAIL
C-43 NOT TO SCALE



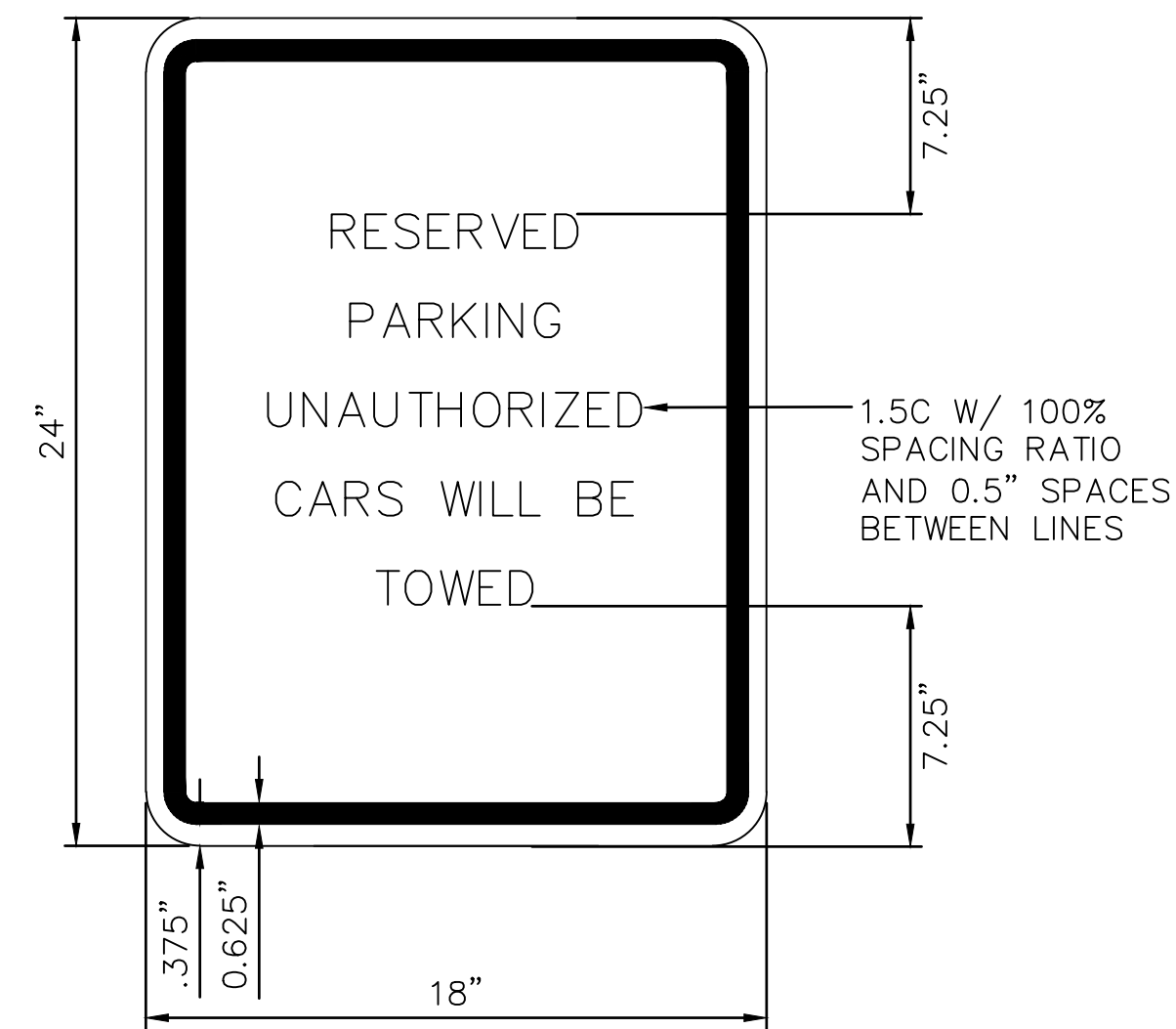
7 REFUSE SIGN DETAIL
C-43 NOT TO SCALE

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REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII STRIPING & SIGNAGE DETAILS 03					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			C-43		

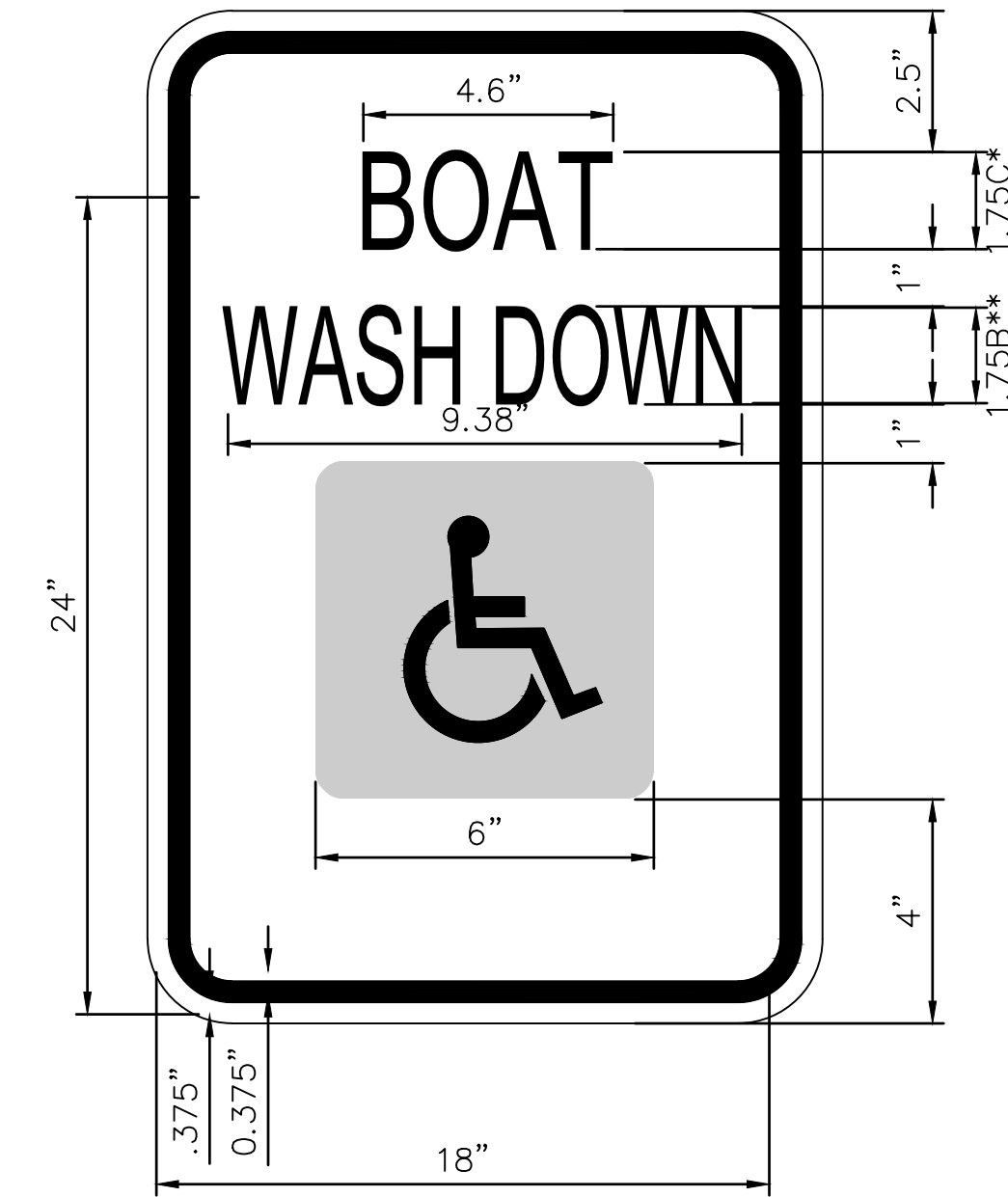
JOB NO. B71C075A ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS

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COLORS:
 LEGEND, BORDER – BLACK (RETROREFLECTIVE)
 BACKGROUND – WHITE (RETROREFLECTIVE)

1 RESERVED PARKING SIGN DETAIL
 C-44 NOT TO SCALE

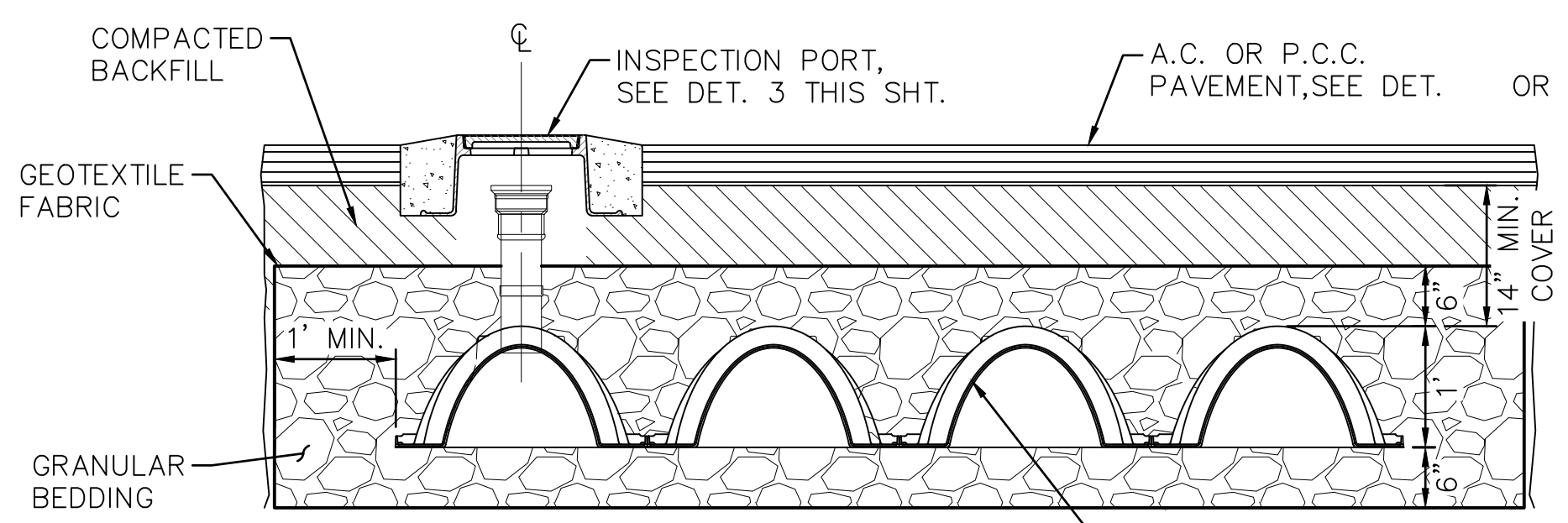


COLORS:
 LEGEND, BORDER – GREEN (RETROREFLECTIVE)
 BACKGROUND – WHITE (RETROREFLECTIVE)
 SYMBOL – BLUE (RETROREFLECTIVE)

*100% SPACING RATIO
 **50% SPACING RATIO

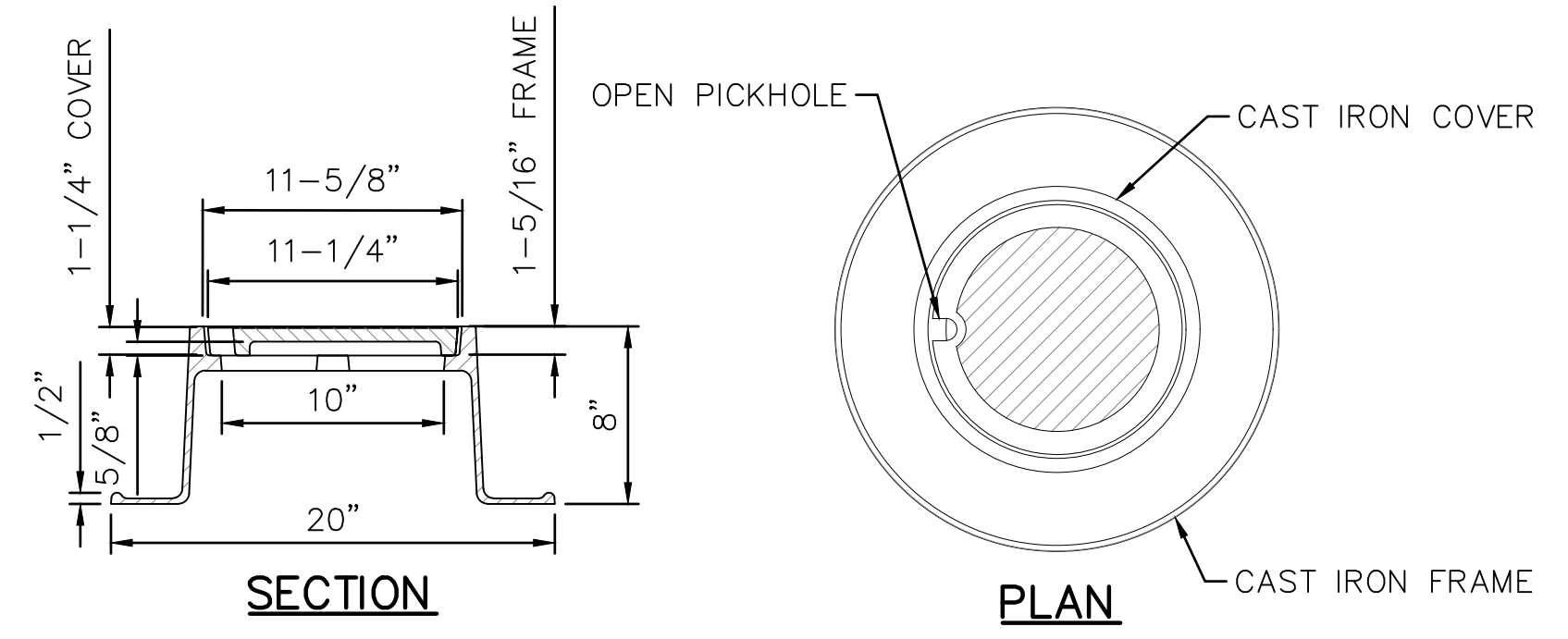
2 ACCESSIBLE BOAT WASHDOWN SIGN DETAIL
 C-44 NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
STRIPING & SIGNAGE DETAILS 04					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:					DRAWING NO.
CHIEF ENGINEER					C-44



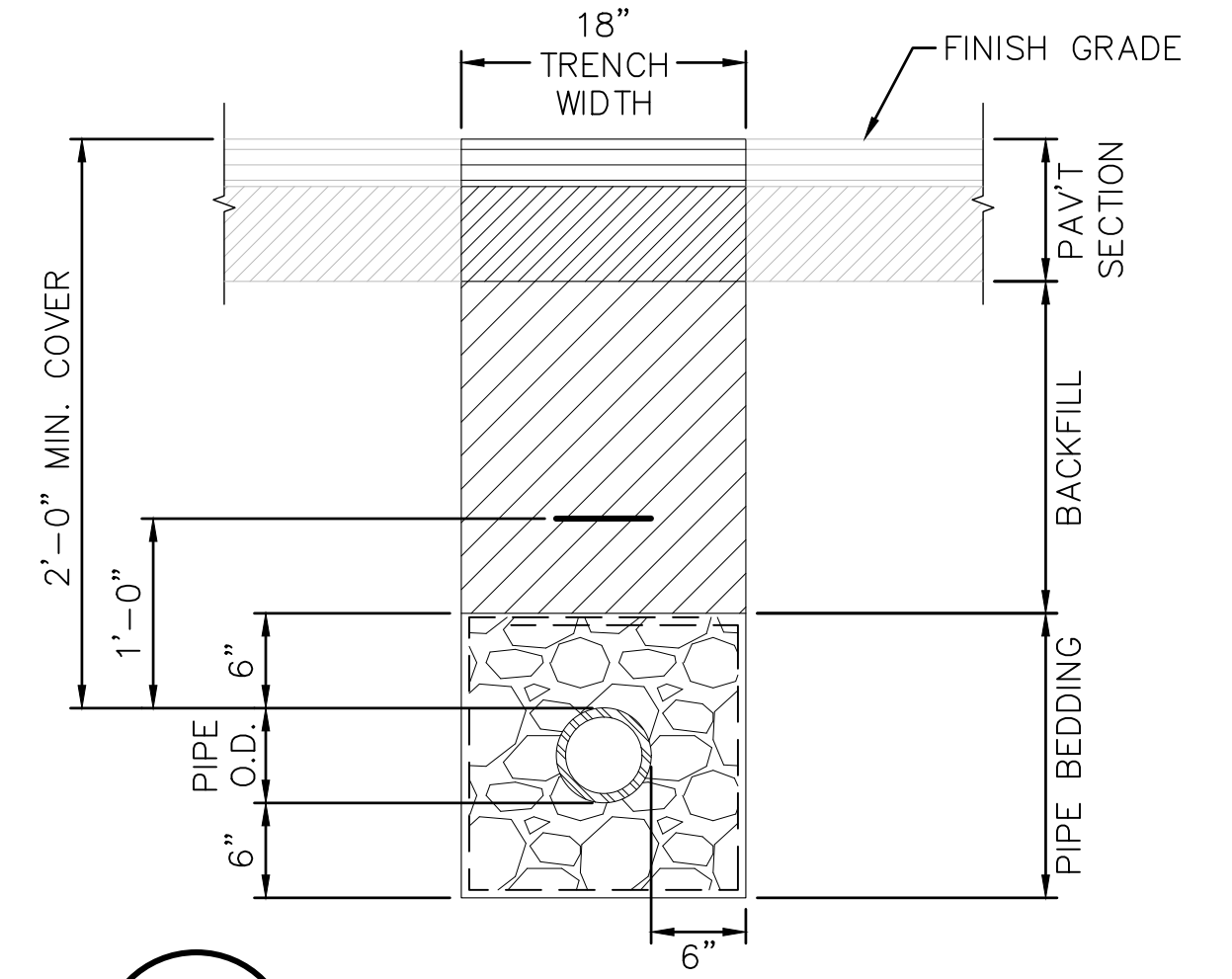
- NOTES:**
1. THE BOTTOM OF THE BED AND LEACHING CHAMBER SHALL BE LEVEL.
 2. CHAMBERS TO BE INSTALLED EDGE-TO-EDGE AND 12" FROM THE SIDEWALL EXCAVATION.
 3. GRANULAR BEDDING SHALL BE WASHED DRAIN ROCK (GRAVEL OR CRUSHED STONE, NOMINAL SIZE 1-1/2" TO 2").
 4. CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER OF UNUSUAL CONDITIONS FOUND DURING EXCAVATION THAT COULD IMPACT THE PERFORMANCE OF THE ABSORPTION BED SUCH AS UNDERGROUND HOLES, WATER, UTILITIES, ETC.

1 SUBSURFACE INFILTRATION SYSTEM DETAIL
C-45 NOT TO SCALE

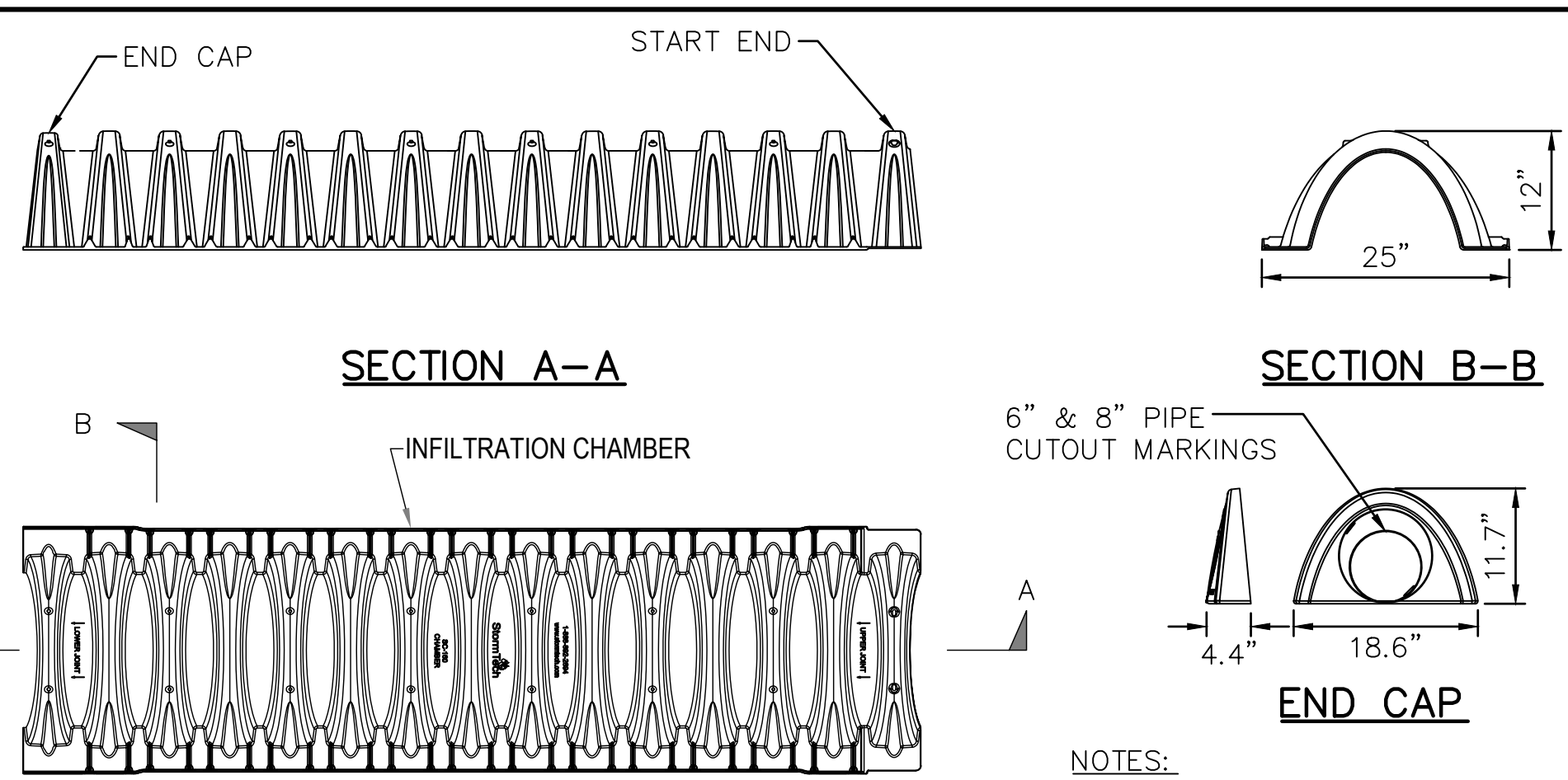


NOTE:
CAST IRON FRAME AND COVER DIMENSIONS SHOWN WERE BASED ON NEENAH FRAME AND COVER R-1976. IF ANOTHER MANUFACTURER'S FRAME AND COVER IS PROVIDED, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE ALTERNATE CAST IRON FRAME AND COVER MEETS H20 TRAFFIC RATED LOADING.

4 CAST IRON FRAME & COVER DETAIL
C-45 NOT TO SCALE

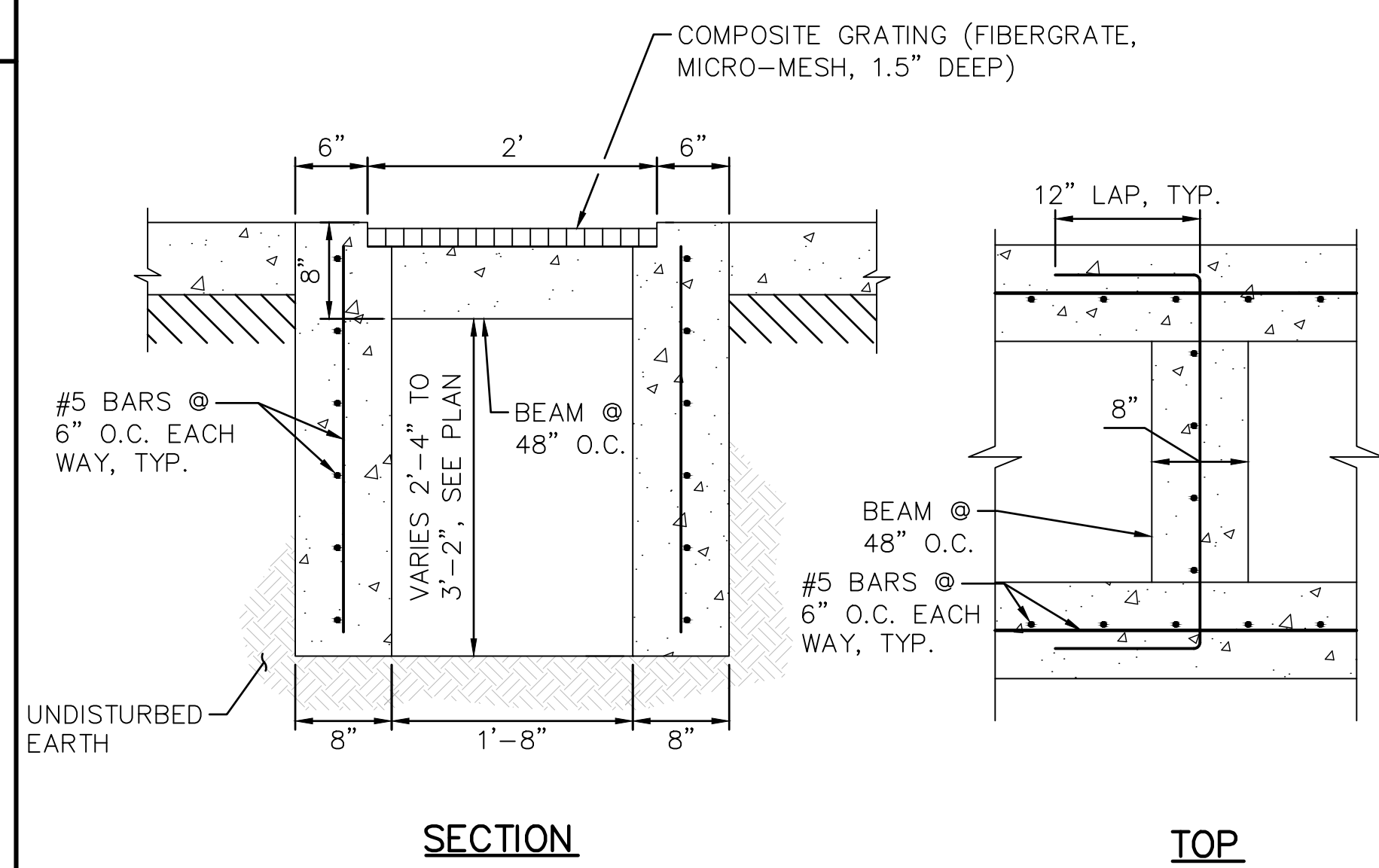


7 DRAINAGE TRENCH DETAIL
C-45 NOT TO SCALE

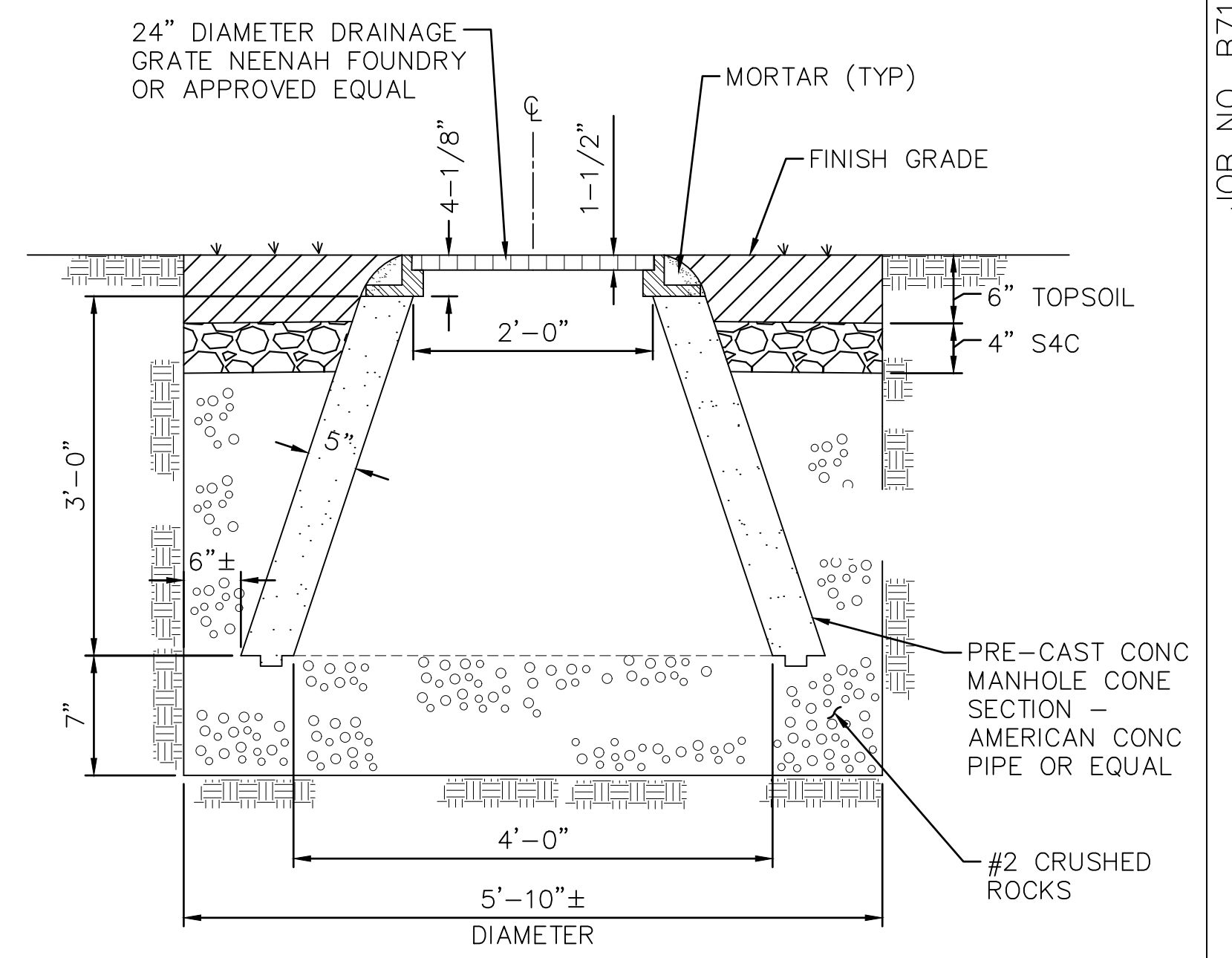


- NOTES:**
1. CHAMBER SHALL BE ADS SC-160LP CHAMBERS.
 2. EXCAVATION, SITE PREPARATION AND INSTALLATION PER MANUFACTURER RECOMMENDATIONS.
 3. MIN. STORAGE CAPACITY: 51.2 GALLONS / 6.85 FT³

2 INFILTRATION CHAMBER DETAIL
C-45 NOT TO SCALE

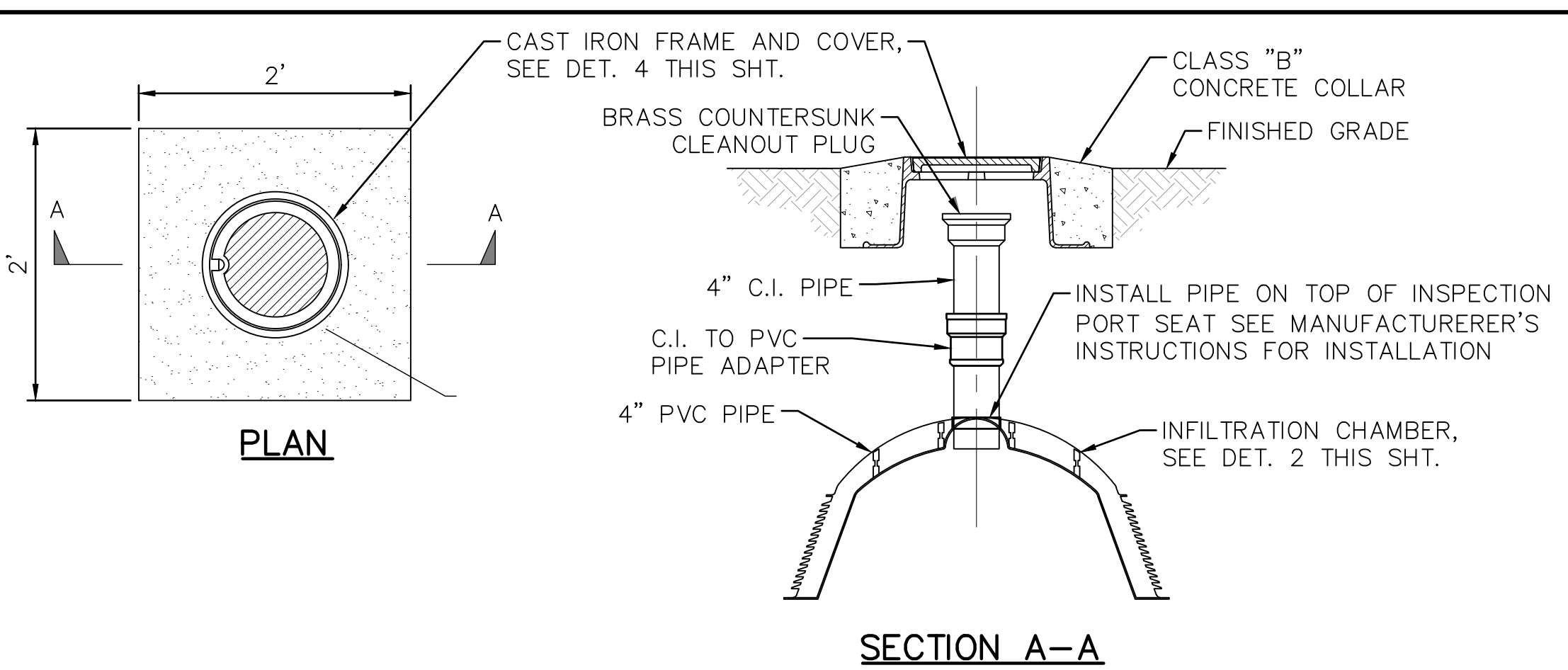


5 TRENCH DRAIN DETAIL
C-45 NOT TO SCALE

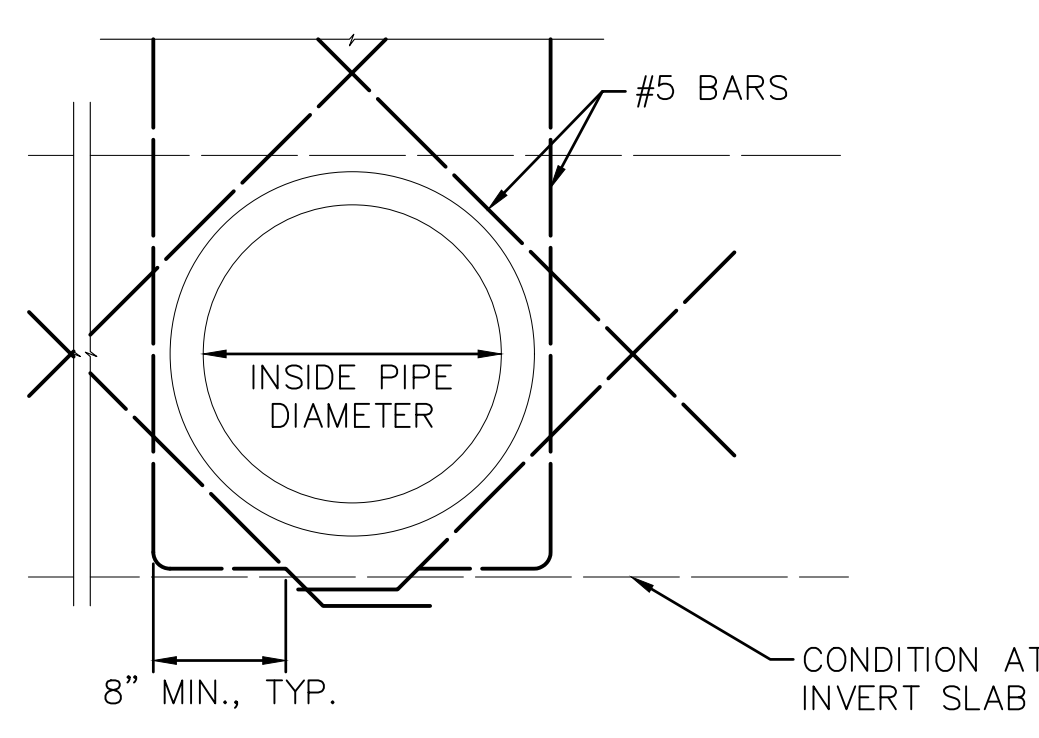


- NOTES:**
1. USE PRE-CAST CONCRETE CONE SECTION WITHOUT RUNGS.
 2. FRAME & COVER SHALL BE H-20 RATED.

8 SEEPAGE PIT WITH GRATE COVER DETAIL
C-45 NOT TO SCALE



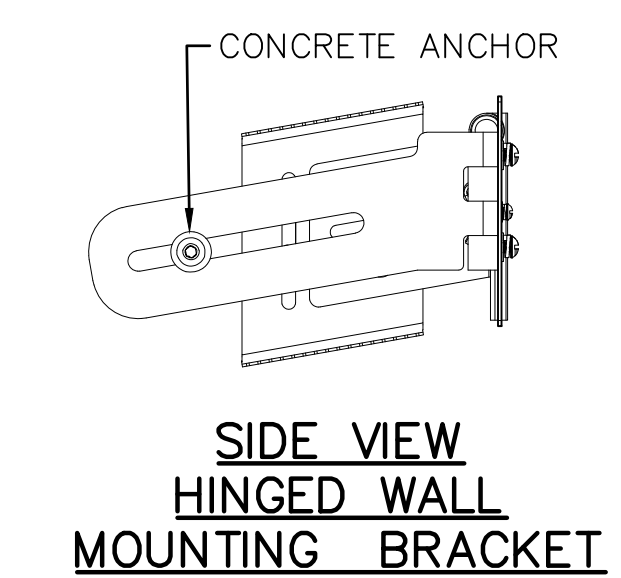
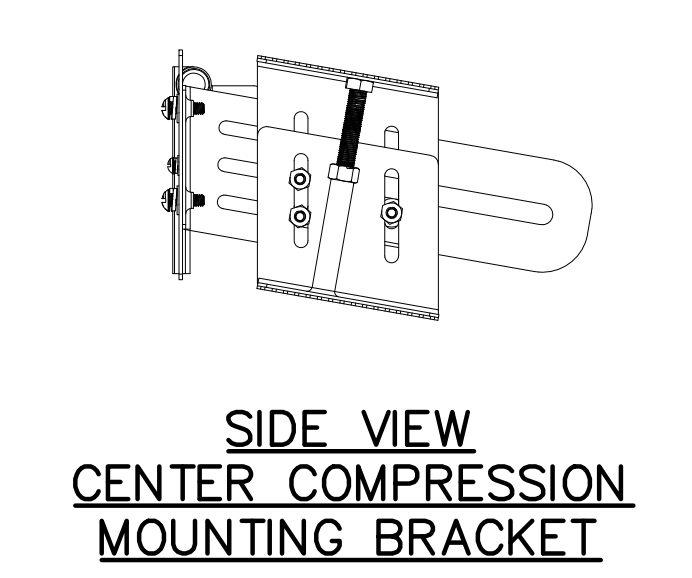
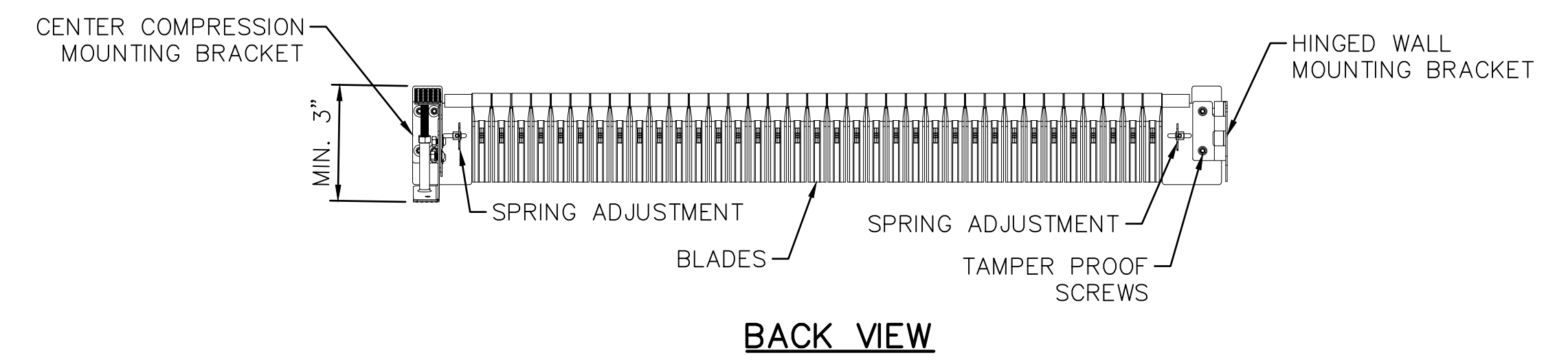
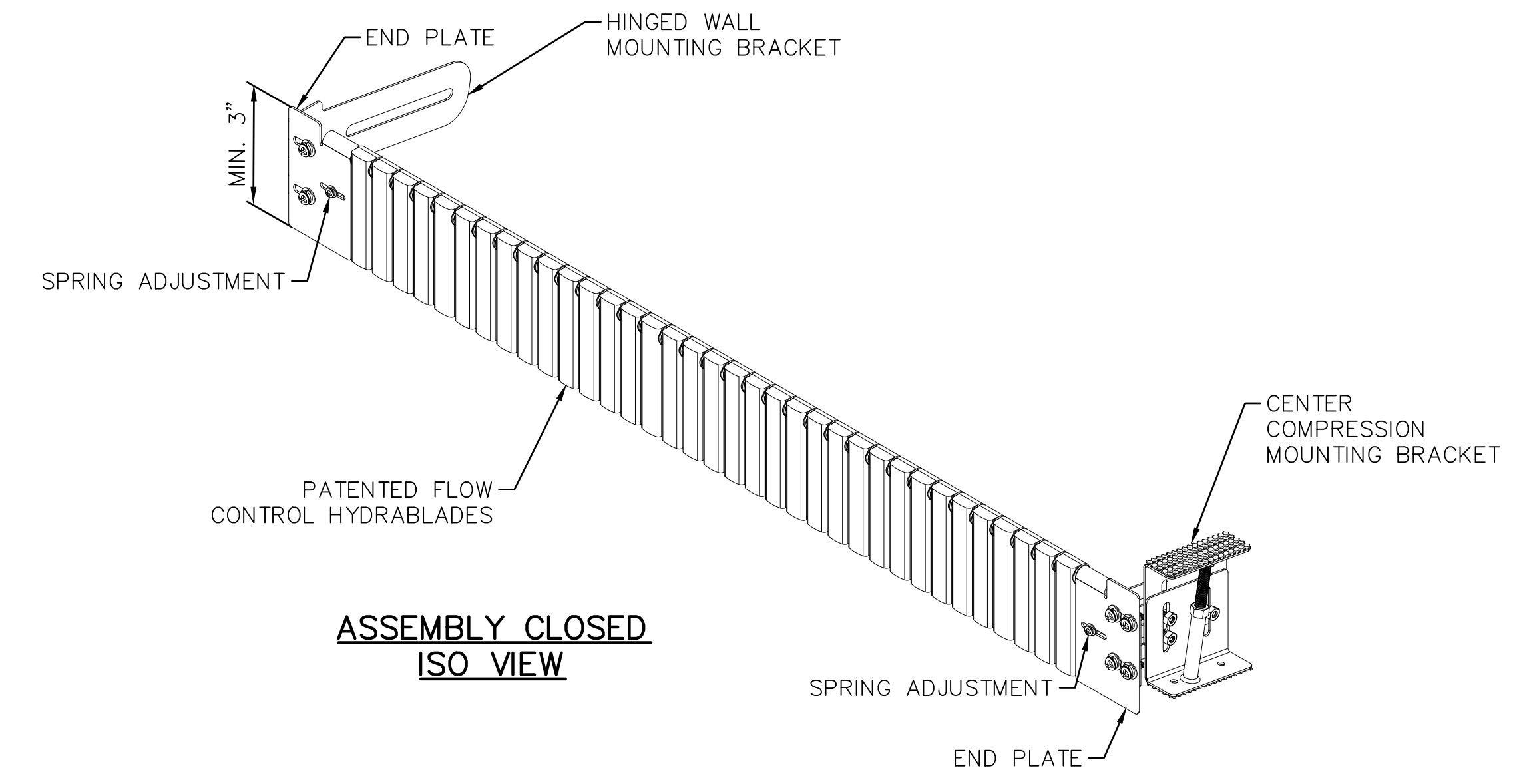
3 INSPECTION PORT DETAIL
C-45 NOT TO SCALE



6 TYPICAL PIPE PENETRATION THROUGH CONCRETE DETAIL
C-45 NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
DRAINAGE DETAILS 01					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:					DRAWING NO.
CHIEF ENGINEER					C-45

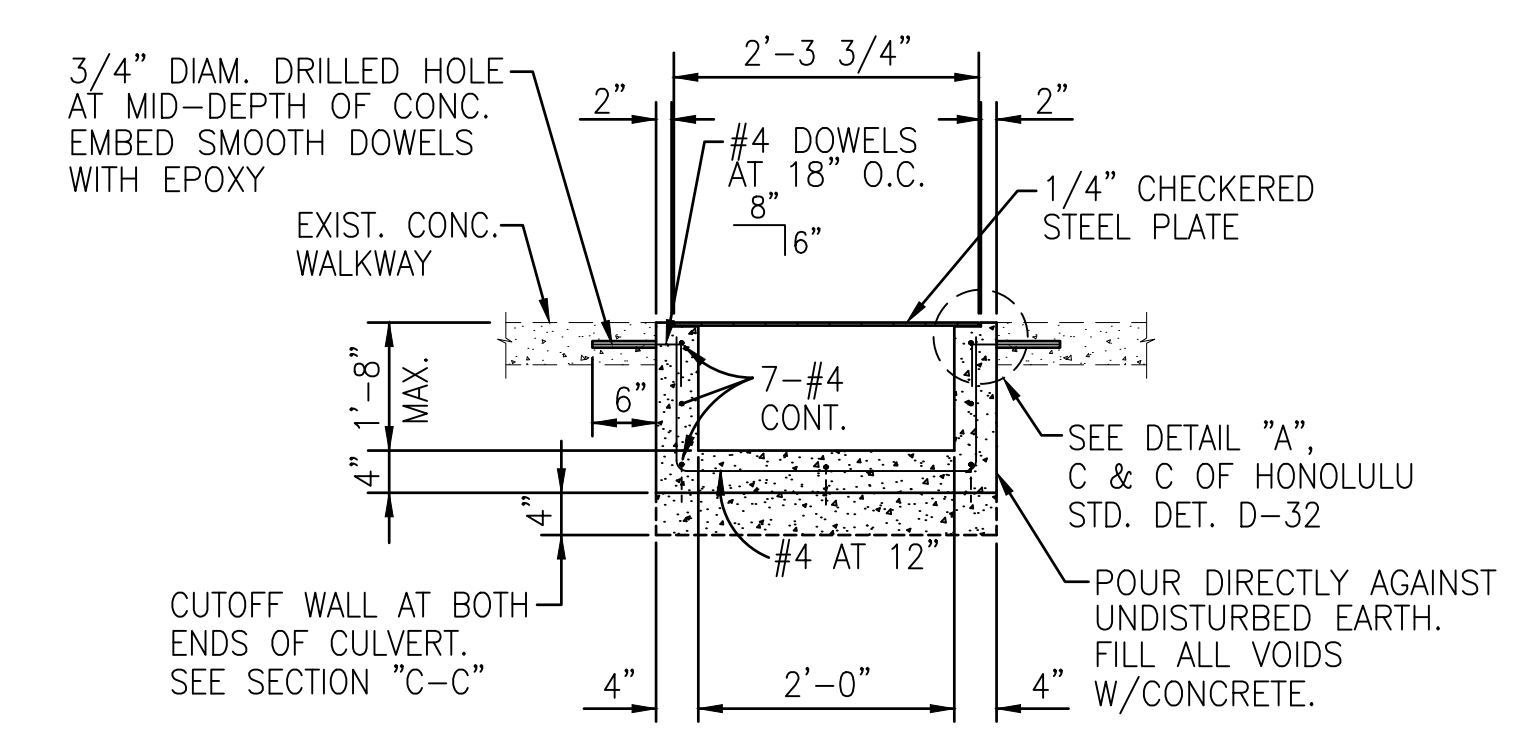
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Plotted on: 5/7/2026
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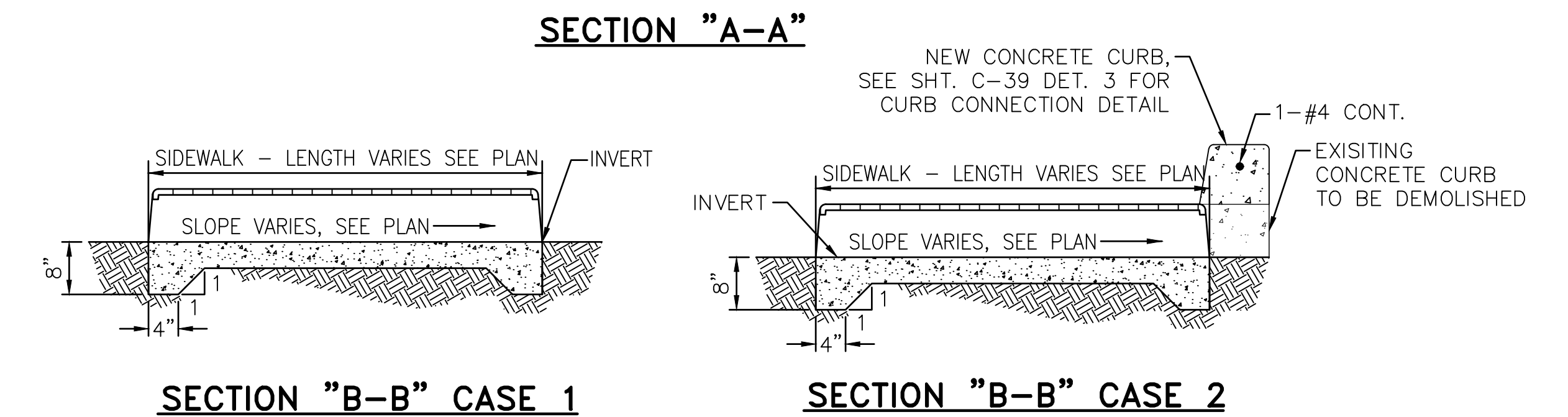
- NOTES:
1. STRUCTURE SHALL BE TYPE 304 STAINLESS STEEL.
 2. ALL HARDWARE, TAMPER-PROOF SCREWS / ANCHORS SHALL BE TYPE 316 STAINLESS STEEL.
 3. AUTOMATIC RETRACTABLE SCREEN SHALL BE HYDRA TMDL SYSTEMS LLC. OR APPROVED EQUAL.

1 AUTOMATIC RETRACTABLE SCREEN
C-46 NOT TO SCALE

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- NOTES
1. FOR SIDEWALK CULVERT PLAN, SEE CITY AND COUNTY OF HONOLULU, STANDARD DETAILS, SHEET NO. D-32.
 2. SAWCUT EXISTING CONCRETE WALKWAY PRIOR TO DEMOLITION AND REMOVAL OF EXISTING SIDEWALK CULVERT.
 3. ALL STEEL PARTS SHALL BE GALVANIZED.
 4. ALL EXPOSED STEEL EDGES SHALL BE ROUNDED.



2 SIDEWALK CULVERT DETAIL
C-46 NOT TO SCALE

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
ALA WAI SMALL BOAT HARBOR PAVING IMPROVEMENTS HONOLULU, HAWAII					
DRAINAGE DETAILS 02					
DESIGNED: KJM			SUBMITTED:		
DRAWN: AHC			DATE: MAY 2026		
CHECKED: SAK			SCALE: AS NOTED		
APPROVED:					DRAWING NO.
CHIEF ENGINEER					C-46