

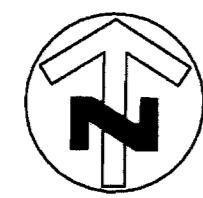
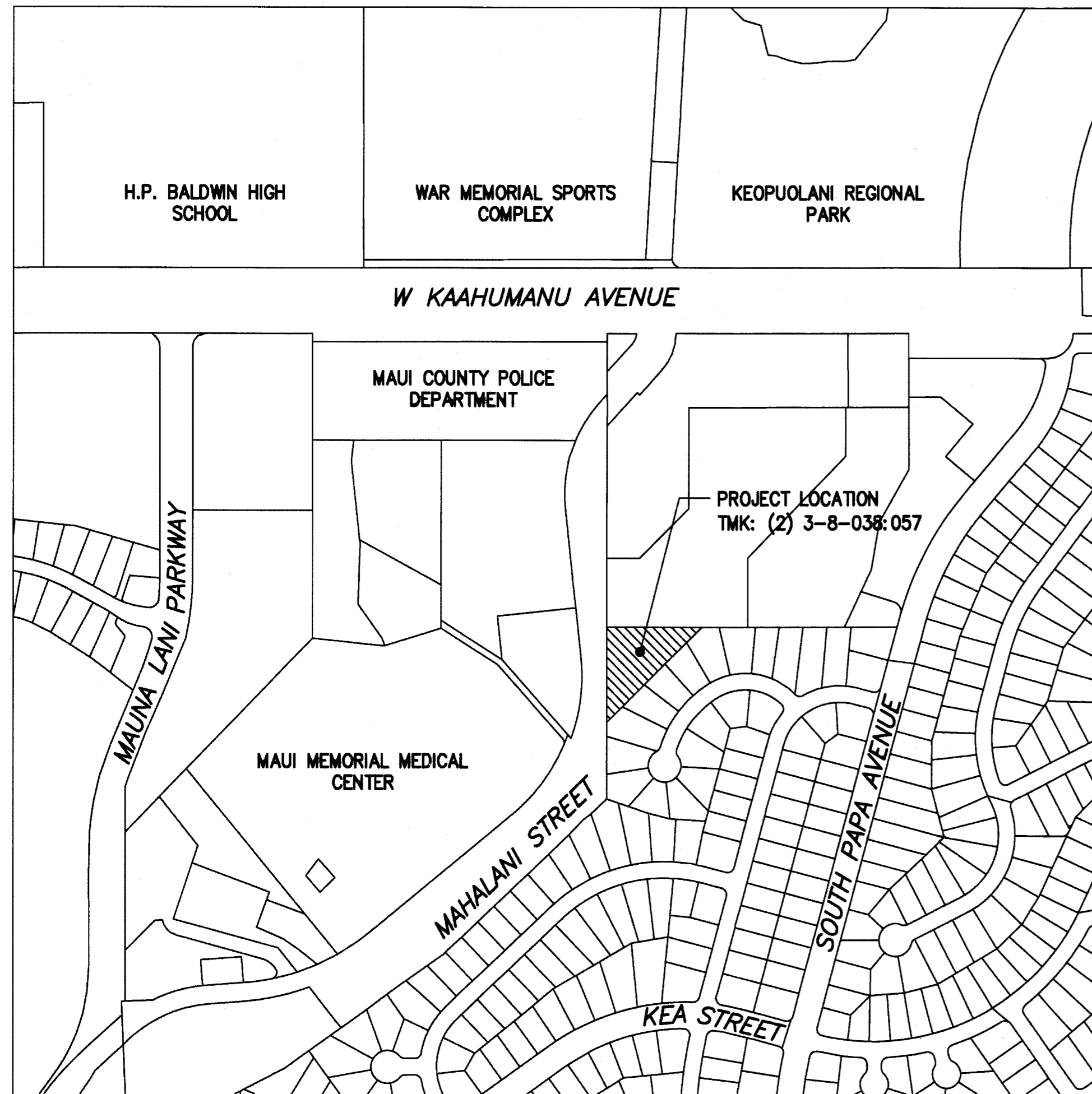
STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
ENGINEERING DIVISION

JOB NO. J43CM74A

MAUI OFFICE ANNEX

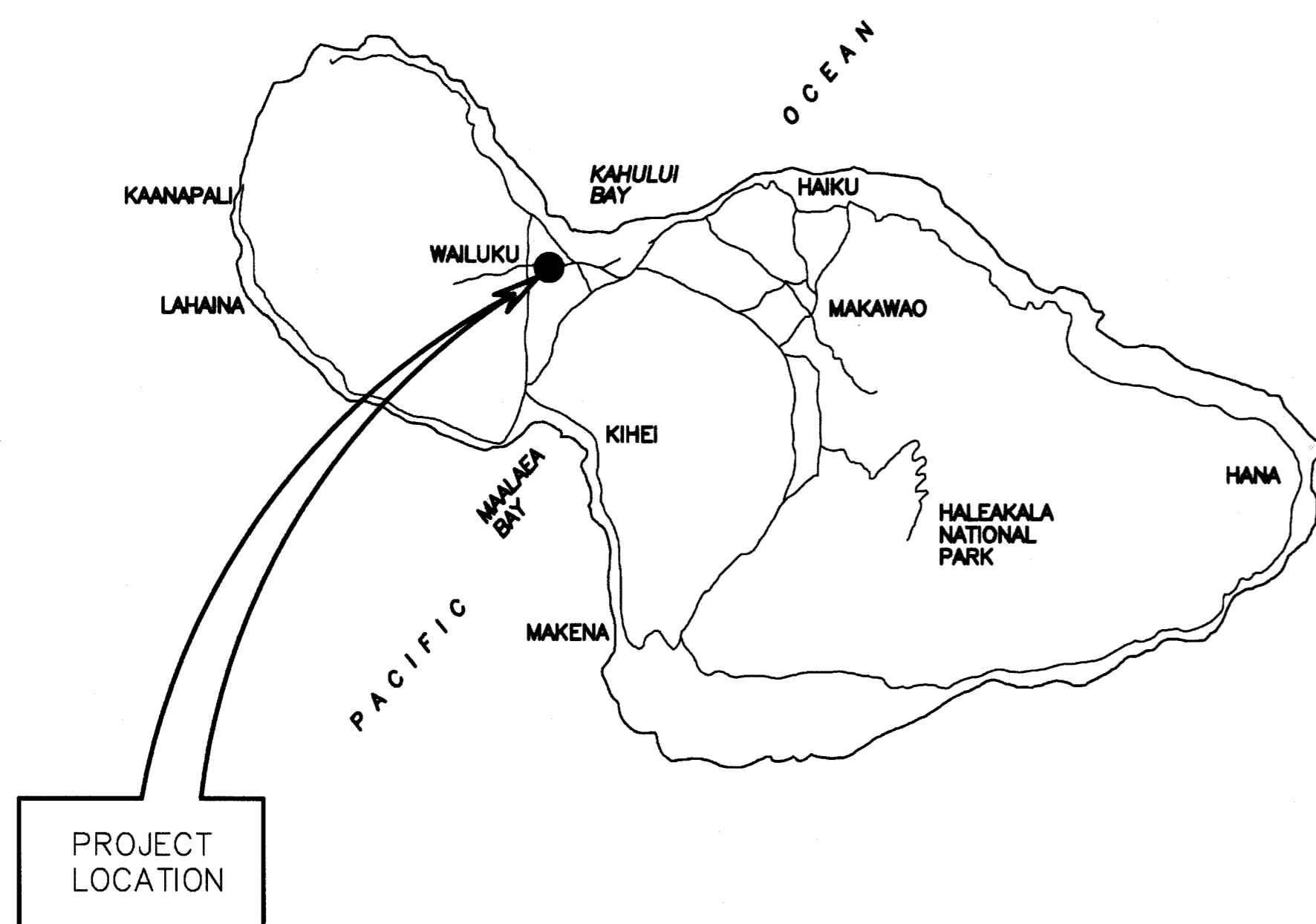
WAILUKU, MAUI, HAWAII

T.M.K.: (2) 3-8-38: 57



LOCATION MAP

1" = 100'



ISLAND OF MAUI

NOT TO SCALE

APPROVED

CARY ZHANG, CHIEF ENGINEER  
ENGINEERING DIVISION  
DEPARTMENT OF LAND AND NATURAL RESOURCES

3/23/16

DATE

DAVID GOODE, DIRECTOR  
DEPARTMENT OF PUBLIC WORKS  
COUNTY OF MAUI  
(FOR WORK WITHIN COUNTY RIGHT-OF-WAY ONLY)

DATE

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| REVISION NO.                                                                                                                                                   | SYM. | DESCRIPTION                  | SHT./OF              | DATE              | APPROVED          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------|----------------------|-------------------|-------------------|
|                                                                                                                                                                |      |                              |                      |                   |                   |
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION<br><br>MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII<br><br>INDEX OF DRAWINGS |      |                              |                      |                   |                   |
|                                                                                                                                                                |      | DESIGNED: KS                 | SUBMITTED: <i>KS</i> |                   |                   |
|                                                                                                                                                                |      | DRAWN: KS                    | DATE: 03/15/2016     |                   |                   |
|                                                                                                                                                                |      | CHECKED: YT                  | SCALE: N/A           |                   |                   |
|                                                                                                                                                                |      | APPROVED: <i>[Signature]</i> |                      | DATE: MAR 23 2016 | DRAWING NO. T0.01 |
| THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.                                            |      |                              |                      |                   |                   |

**GENERAL CONSTRUCTION NOTES**

- ALL CONSTRUCTION WORK SHALL CONFORM TO THE STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1984 AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SEPTEMBER 1986, AS AMENDED, COUNTY OF MAUI.
- CONTRACTOR SHALL SECURE THE SERVICES OF A HAWAII LICENSED SURVEYOR TO PROVIDE CONSTRUCTION STAKEOUT.
- THE CONTRACTOR SHALL NOTIFY MAUI ELECTRIC COMPANY FOR ANY WORK TOUCHING THEIR FACILITIES AT LEAST SEVEN (7) DAYS PRIOR TO SUCH WORK. THE CONTRACTOR SHALL COORDINATE WITH AND NOTIFY ALL AFFECTED PROPERTY OWNERS.
- 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 FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.
- NO CONTRACTOR SHALL PERFORM ANY CONSTRUCTION OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW INTO EXISTING CITY DRAINAGE SYSTEMS, OR 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.
- THE GENERAL CONTRACTOR/DEVELOPER/OWNER OF THE PROJECT SHALL BE RESPONSIBLE FOR 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 MAUI COUNTY CODE CHAPTER 20.08 "SOIL EROSION AND SEDIMENT CONTROL", 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:
  - STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES THAT DISTURB ONE (1) ACRE OR MORE, AND
  - 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>. THE OWNER/DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR OBTAINING OTHER FEDERAL, STATE, OR LOCAL AUTHORIZATIONS AS REQUIRED BY LAW.
- CONFINED SPACE
 

FOR ENTRY BY COUNTY PERSONNEL, INCLUDING INSPECTORS, INTO A PERMIT REQUIRED CONFINED SPACE AS DEFINED IN 29 CFR PART 1910.146(b), THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING:

  - ALL SAFETY EQUIPMENT REQUIRED BY THE CONFINED SPACE REGULATIONS APPLICABLE TO ALL PARTIES OTHER THAN THE CONSTRUCTION INDUSTRY, TO INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:
    - FULL BODY HARNESSES FOR UP TO TWO PERSONNEL.
    - LIFELINE AND ASSOCIATED CLIPS.
    - INGRESS/EGRESS AND FALL PROTECTION EQUIPMENT.
    - TWO-WAY RADIOS (WALKIE-TALKIES) IF OUT OF LINE-OF-SIGHT.
    - EMERGENCY (ESCAPE) RESPIRATOR (10 MINUTE DURATION).
    - CELLULAR TELEPHONE TO CALL FOR EMERGENCY ASSISTANCE.
    - CONTINUOUS GAS DETECTOR (CALIBRATED) TO MEASURE OXYGEN, HYDROGEN SULFIDE, CARBON MONOXIDE AND FLAMMABLES (CAPABLE OF MONITORING AT A DISTANCE AT LEAST 20- FEET AWAY).
    - PERSONAL MULTI-GAS DETECTOR TO BE CARRIED BY INSPECTOR.
  - CONTINUOUS FORCED AIR VENTILATION ADEQUATE TO PROVIDE SAFE ENTRY CONDITIONS.
  - ONE ATTENDANT/RESCUE PERSONNEL TOPSIDE (TWO, IF CONDITIONS WARRANT IT).
- EXISTING TOPOGRAPHIC INFORMATION SHOWN WAS COMPILED FROM TWO SURVEYS CONDUCTED BY NEWCOMER LEE LAND SURVEYORS, INC.; THE DLNR MAUI OFFICE ANNEX SITE ON FEBRUARY 6, 2013 AND MAHALANI STREET SURVEY ON FEBRUARY 4, 2015. THERE SHALL BE NO LIABILITY FOR ANY ERRORS OR OMISSIONS ORIGINATING FROM THE PROVIDED TOPOGRAPHIC DATA.
- FOR PROJECT BENCHMARKS, SEE SHEET CO.00.

**CONSTRUCTION NOTES FOR WORK WITHIN COUNTY**

**RIGHT-OF-WAY**

- CONTRACTOR SHALL OBTAIN A PERMIT TO PERFORM WORK ON COUNTY RIGHT-OF-WAY FROM THE DEVELOPMENT SERVICES ADMINISTRATION (DSA) TWO WEEKS PRIOR TO THE COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE DSA TWO (2) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION BY CALLING 270-7366.
- STOCKPILES, EQUIPMENT, VEHICLES, OR ANY OTHER CONSTRUCTION MATERIALS SHALL NOT BE STORED OR PARKED IN THE COUNTY RIGHT-OF-WAY UNLESS APPROVED BY THE COUNTY.
- ALL CONSTRUCTION WORK SHALL STRICTLY CONFORM TO THE LATEST VERSION OF THE HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE PUBLIC WORKS CONSTRUCTION, THE SEPTEMBER 1984 "STANDARD DETAILS" FOR PUBLIC WORKS CONSTRUCTION, AND THE SEPTEMBER 1986 "STANDARD SPECIFICATIONS" FOR PUBLIC WORKS CONSTRUCTION, AS AMENDED, UNLESS OTHERWISE APPROVED BY THE COUNTY.
- IF EXISTING UTILITIES, WHETHER OR NOT SHOWN ON PLANS, ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL AT HIS OWN EXPENSE BE REQUIRED TO REPAIR SUCH UTILITIES.
- CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, AND OTHER PROTECTIVE DEVICES FOR THE PROTECTION, SAFETY, AND CONVENIENCE OF THE PUBLIC, ACCORDING TO THE LATEST VERSION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
- THE COUNTY HAS THE RIGHT TO STOP CONSTRUCTION SHOULD ANY WORK BE FOUND CONTRARY TO THE APPROVED CONSTRUCTION PLAN OR DETRIMENTAL TO THE PUBLIC'S INTEREST.
- THE CONTRACTOR SHALL UTILIZE BEST MANAGEMENT PRACTICES TO CONTROL DUST, EROSION AND OTHER ENVIRONMENTAL HAZARDS. THE WORK SHALL BE IN CONFORMANCE WITH REQUIREMENTS OF THE STATE DEPARTMENT OF HEALTH AND COUNTY GRADING ORDINANCE.
- THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS RESULTING FROM HIS WORK AND DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS. THE COST INCURRED FOR ANY NECESSARY REMEDIATION SHALL BE PAID BY THE CONTRACTOR.
- CONSTRUCTION DEBRIS AND WASTES SHALL BE DEPOSITED AT AN APPROPRIATE WORK SITE. THE CONTRACTOR SHALL INFORM THE DSA OF THE LOCATION OF THE DISPOSAL SITES. THE DISPOSAL SITE MUST FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
- ALL STRIPING AND PAVEMENT MARKINGS SHALL BE OF THERMOPLASTIC MATERIAL.
- ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE REGRASSED, REGARDLESS OF CONDITION OF GROUND PRIOR TO THE START OF CONSTRUCTION. OTHER FORMS OF PERMANENT STABILIZATION MUST BE APPROVED BY DSA IN WRITING.
- STEEL PLATE WARNING SIGNS ARE REQUIRED FOR ALL STEEL PLATES IN THE RIGHT-OF-WAY.
- WORK ON COUNTY STREETS SHALL ONLY BE ALLOWED BETWEEN THE HOURS OF 8:30 AM AND 3:00 PM. WORK ON WEEKENDS, HOLIDAYS, OR HOURS OTHER THAN PREVIOUSLY INDICATED IS PROHIBITED UNLESS OTHERWISE APPROVED BY DSA.
- SHOULD HISTORIC SITES SUCH AS WALLS, PLATFORMS, PAVEMENTS, OR MOUNDS, OR REMAINS SUCH AS ARTIFACTS BURIALS, CONCENTRATION OF SHELL OR CHARCOAL BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, WORK SHALL CEASE IMMEDIATELY IN THE IMMEDIATE VICINITY OF THE FIND AND THE FIND SHALL BE PROTECTED FROM FURTHER DAMAGE. THE CONTRACTOR AND/OR LANDOWNER SHALL IMMEDIATELY CONTACT THE STATE HISTORIC PRESERVATION DIVISION (692-8015), WHICH WILL ASSESS THE SIGNIFICANCE OF THE FIND AND RECOMMEND AN APPROPRIATE MITIGATION MEASURE, IF NECESSARY.
- PURSUANT OF MAUI COUNTY CODE SECTION 3.44.015(C), THE COUNTY OF MAUI IS NOT RESPONSIBLE FOR ANY PARK, ROADWAY, EASEMENT, OR ANY OTHER INTEREST IN REAL PROPERTY SHOWN ON THE CONSTRUCTION PLANS, UNLESS THE MAUI COUNTY COUNCIL HAS ACCEPTED ITS DEDICATION BY A RESOLUTION APPROVED BY A MAJORITY OF COUNCIL'S MEMBERS AT A REGULAR OR SPECIAL MEETING OF THE MAUI COUNTY COUNCIL.
- COMPACTION REQUIREMENTS:
  - TESTING OF MATERIALS SHALL BE CONDUCTED BY AN APPROVED INDEPENDENT TESTING AGENCY IN ACCORDANCE WITH ASTM STANDARD METHODS OR AS SPECIFIED BY THE DEPARTMENT OF PUBLIC WORKS, ENGINEERING DIVISION, AS FOLLOWS:
    - EMBANKMENT/SELECT BORROW AND SUBGRADE MATERIALS: ONE (1) COMPACTION TEST PER 600 SQUARE YARDS PER LIFE;
    - AGGREGATE SUBBASE COURSE: ONE (1) COMPACTION TEST PER 400 SQUARE YARDS; ONE (1) GRADATION AND SAND EQUIVALENT TEST PER LIFE PER PROJECT;
    - AGGREGATE BASE COURSE: ONE (1) COMPACTION TEST PER 300 SQUARE YARDS; ONE (1) GRADATION AND SAND EQUIVALENT TEST PER LIFE PER PROJECT;
    - ASPHALT CONCRETE PAVEMENT OR ASPHALT TREATED BASE COURSE; THREE (3) A.C. PAVEMENT CORES FOR THICKNESS ON DENSITY TESTS PER PROJECT;
    - TRENCH BACKFILL MATERIAL: ONE (1) TEST FOR EACH 300 LINEAL FEET OF TRENCH PER LIFT OF MATERIAL.

**CONSTRUCTION NOTES FOR WORK WITHIN COUNTY**

**RIGHT-OF-WAY (CONT.)**

- COMPACTION REQUIREMENTS (CONT.):
  - CONTRACTOR SHALL SUBMIT ALL TESTIFYING REPORTS INCLUDING RESULTS TO THE COUNTY'S INSPECTION AGENCY FOR REVIEW AND APPROVAL PRIOR TO COUNTY'S ACCEPTANCE OF WORK.
  - THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE COUNTY OF ANY TESTING FAILURES AND CORRECT EACH FAILURE PRIOR TO PROCEEDING TO THE NEXT PHASE OF CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT A TIFF AND FIVE (5) COPIES OF THE "AS-BUILT" DRAWINGS PRIOR TO THE FINAL APPROVAL OF THE IMPROVEMENTS.

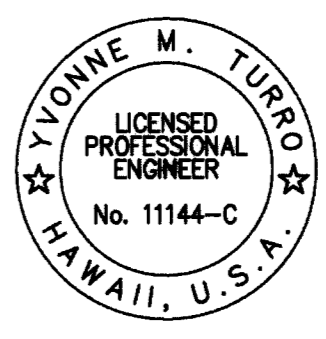
**TEMPORARY EROSION CONTROL NOTES**

- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 20.08, "SOIL EROSION AND SEDIMENTATION CONTROL," DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL MANAGEMENT, COUNTY OF MAUI.
- THE CONTRACTOR SHALL KEEP A COPY OF THE APPROVED BMP PLAN, NOI, ETC. ON THE PROJECT SITE. THE BMP PLAN SHALL BE UPDATED TO REFLECT ANY CHANGES MADE DURING THE COURSE OF CONSTRUCTION FOR THE DURATION OF THE PROJECT.
- THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH THE STATE DEPARTMENT OF HEALTH REGULATIONS REGARDING STORM WATER DISCHARGE.
- NO GRADING WORK SHALL COMMENCE UNTIL TEMPORARY EROSION CONTROLS (BERMS, SILT FENCES, INLET FILTERS, ETC.) ARE IN-PLACE.
- THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF LAND TO BE EXPOSED AT ANY ONE TIME.
- GRASSING OF ALL EXPOSED AREAS SUSCEPTIBLE TO EROSION SHALL BE DONE IMMEDIATELY AFTER FINAL GRADES ARE ESTABLISHED.
- DISTURBED AREAS OF THE CONSTRUCTION SITE THAT ARE EXPECTED TO BE EXPOSED FOR MORE THAN 21 DAYS SHALL BE STABILIZED (GRASSED OR GRAVELED) BY NO LATER THAN THE 14TH DAY AFTER THE LAST DISTURBANCE.
- ALL NEW EMBANKMENT WORK SHALL BE COMPACTED BY THE END OF EACH WORK DAY TO MINIMIZE EROSION AND DUST.
- THE CONTRACTOR SHALL PROVIDE A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF 8" THICK #2 CRUSHED ROCK FOR INGRESS AND EGRESS TO ROADWAYS.
- DURING EACH STORM EVENT THAT GENERATES RUNOFF FROM THE SITE, THE CONTRACTOR SHALL VISUALLY INSPECT WATER QUALITY FOR TURBIDITY AND SEDIMENT. THE CONTRACTOR SHALL ADD AND MAKE ADJUSTMENTS TO THE BMPS TO PROTECT ADJACENT PROPERTIES AND NEARBY WATERBODIES.
- TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN-PLACE AND ESTABLISHED.
- POTABLE WATER USE FOR DUST CONTROL SHALL BE PROHIBITED.
- THE CONTRACTOR SHALL MONITOR WEATHER PATTERNS AND AVOID WORK ALONG DRAINAGE WAYS IF RAINY WEATHER IS IMMINENT.
- THE CONTRACTOR IS CAUTIONED THAT EXISTING DRY DRAINAGEWAYS ARE SUBJECT TO SEVERE FLASH FLOODING. WORK ALONG DRAINAGEWAYS SHALL RECEIVE SPECIAL CONSIDERATION IN ORDER TO ENSURE PROTECTION OF DOWNSTREAM AREAS AND THE QUALITY OF NEARSHORE WATERS DURING PERIODS OF DRAINAGEWAY FLOW.
- TEMPORARY STOCKPILES SHALL BE STABILIZED WITH GRASS AND/OR MULCH OR COVERED APPROPRIATELY TO PREVENT DUST AND EROSION.
- ON-SITE DRAINAGE SHALL BE HANDLED IN SUCH A WAY AS TO CONTROL EROSION, PREVENT DAMAGE TO DOWNSTREAM PROPERTIES AND TO RETURN WATERS TO THE NATURAL DRAINAGE COURSE IN A MANNER WHICH MINIMIZES SEDIMENTATION OR OTHER POLLUTION TO THE MAXIMUM EXTENT PRACTICABLE.
- ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL CONTROL DUST EMISSIONS TO THE MAXIMUM EXTENT PRACTICABLE THROUGH THE APPLICATION OF BMPS, THAT MAY INCLUDE WATERING WITH TRUCKS OR SPRINKLERS, ERECTION OF DUST FENCES, LIMITING THE AREA OF DISTURBANCE, AND TIMELY GRASSING OF FINISHED AREAS.
- WHENEVER FEASIBLE, NATURAL VEGETATION, ESPECIALLY GRASSES, SHOULD BE RETAINED. IF IT IS NECESSARY TO BE REMOVED, TREES, TIMBER, PLANTS, SHRUBBERY AND OTHER WOODY VEGETATION, AFTER BEING UPROOTED, DISPLACED OR DISLODGED FROM THE GROUND BY EXCAVATION, CLEARING OR GRUBBING, SHALL NOT BE STORED IN OR DEPOSITED ALONG THE BANKS OF ANY STREAMS, RIVERS OR NATURAL WATERCOURSE. THE DIRECTOR MAY REQUIRE THE REMOVAL AND DISPOSAL OF SUCH VEGETATION FROM THE SITE WITHIN A REASONABLE TIME BUT NOT TO EXCEED THREE MONTHS.

**GRADING NOTES**

- ALL GRADING WORK SHALL CONFORM TO TITLE 20 OF THE MAUI COUNTY CODE AND SOILS REPORT BY HIRATA AND ASSOCIATES ENTITLED "GEOTECHNICAL INVESTIGATION DLNR ADMINISTRATION BUILDING DESIGN PHASE" DATED APRIL 23, 2015. GRADING SHALL NOT COMMENCE UNTIL A GRADING PERMIT IS APPROVED.
- THE CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS AND ENVIRONMENTAL MANAGEMENT AT LEAST TWO (2) WEEKS BEFORE ANY WORK BEGINS.
- ALL GRADING OPERATIONS SHALL BE PERFORMED IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF THE WATER POLLUTION CONTROL AND WATER QUALITY STANDARDS CONTAINED IN THE PUBLIC HEALTH REGULATIONS, STATE DEPARTMENT OF HEALTH, ON WATER POLLUTION CONTROL AND WATER QUALITY STANDARDS AND THE COUNTY GRADING ORDINANCE.
- NO CONTRACTOR SHALL PERFORM ANY GRADING OPERATION SO AS TO CAUSE SOIL OR DEBRIS IN ANY FORM TO FALL OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSE. SHOULD SUCH VIOLATIONS OCCUR, THE COSTS INCURRED FOR ANY REMEDIAL ACTION BY THE DIRECTOR OF PUBLIC WORKS AND ENVIRONMENTAL MANAGEMENT SHALL BE PAYABLE BY THE CONTRACTOR.
- ALL SLOPES AND EXPOSED AREAS SHALL BE SODDED OR PLANTED IMMEDIATELY AFTER THE GRADING WORK HAS BEEN COMPLETED. CONTRACTOR SHALL GRASS AND MAINTAIN ALL EXPOSED AREAS THAT ARE SUBJECT TO EROSION.
- FILLS ON SLOPES STEEPER THAN 5:1 SHALL CONTINUOUSLY BE KEYED AND BENCHED.
- CONSTRUCTION DEBRIS AND WASTES SHALL BE DEPOSITED AT AN APPROPRIATE SITE. THE CONTRACTOR SHALL INFORM THE ENGINEER OF THE LOCATION OF DISPOSAL SITES. THE DISPOSAL SITE MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCES.
- THE CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES AT ALL TIMES, WEEKENDS AND HOLIDAYS INCLUDED. ALL GRADED AREAS SHALL BE STABILIZED TO MINIMIZE DUST AFTER CONSTRUCTION ACTIVITY HAS CEASED FOR THE DAY AND FOR THE WEEKEND.
- ALL EXPOSED SLOPES SHALL BE PROTECTED WITH TEMPORARY DIVERSIONS, BERMS, AND SWALES AT THE TOP OF THE SLOPES.
- EXISTING TOPOGRAPHIC INFORMATION SHOWN WAS COMPILED FROM TWO SURVEYS CONDUCTED BY NEWCOMER LEE LAND SURVEYORS, INC.; THE DLNR MAUI OFFICE ANNEX SITE ON FEBRUARY 6, 2013 AND MAHALANI STREET SURVEY ON FEBRUARY 4, 2015. THE CONTRACTOR SHALL EXAMINE THE SITE AND TAKE WHATEVER MEASURES NECESSARY TO VERIFY CONDITIONS EXISTING IN THE FIELD.
- THE COUNTY SHALL BE INFORMED OF THE LOCATION OF DISPOSAL SITES FOR EXCESS MATERIAL WHEN THE GRADING PERMIT APPLICATION IS FILED. THE DISPOSAL SITE MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
- THE LIMITS OF THE GRADING AREA SHALL BE FLAGGED BEFORE ANY GRADING WORK BEGINS.
- UNSUITABLE MATERIALS, SUCH AS ORGANIC SOILS, CLAYS, AND DEBRIS, SHALL BE REMOVED AND DISPOSED OF APPROPRIATELY. ANY DISPOSAL MADE ON-SITE SHALL BE APPROVED BY THE ENGINEER.

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| REVISION NO.                                                                        | SYM.                                                                                  | DESCRIPTION | SHT./OF    | DATE | APPROVED             |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------|------------|------|----------------------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION |                                                                                       |             |            |      |                      |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                          |                                                                                       |             |            |      |                      |
| GENERAL NOTES - 1                                                                   |                                                                                       |             |            |      |                      |
| DESIGNED:                                                                           | CK                                                                                    | SUBMITTED:  | GC         |      |                      |
| DRAWN:                                                                              | CK                                                                                    | DATE:       | 03/15/2016 |      |                      |
| CHECKED:                                                                            | YT                                                                                    | SCALE:      | N/A        |      |                      |
| APPROVED:                                                                           |  |             |            |      |                      |
| CHIEF ENGINEER                                                                      |                                                                                       | MAR 23 2016 |            | DATE | DRAWING NO.<br>T1.00 |

**SEWER NOTES**

- ALL WASTEWATER LINES AND APPURTENANCES SHALL CONFORM TO THE STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, DATED SEPTEMBER 1984, OF THE DEPARTMENT OF PUBLIC WORKS, COUNTY OF MAUI.
- ALL SEWERLINE AND APPURTENANCES SHALL FOLLOW THE DESIGN STANDARDS OF THE WASTEWATER RECLAMATION DIVISION, CITY AND COUNTY OF HONOLULU, VOLUMES 1 & 2, DATED JULY 1993 AND JULY 1984 RESPECTIVELY, UNLESS OTHERWISE NOTED.
- BEFORE CONSTRUCTION COMMENCES, THE CONTRACTOR SHALL SCHEDULE AND DOCUMENT A PRE-CONSTRUCTION MEETING WITH ALL AGENCIES HAVING UTILITIES AFFECTED BY THE WORK.
- COUNTY OF MAUI HAS THE RIGHT TO STOP CONSTRUCTION, SHOULD ANY WORK BE FOUND CONTRARY TO THE APPROVED PLANS AND SPECIFICATIONS, OR DETRIMENTAL TO THE PUBLIC INTEREST.
- ALL EXISTING WASTEWATER LINES, WHETHER OR NOT SHOWN ON THE PLANS, IF DAMAGED DURING CONSTRUCTION, SHALL BE REPAIRED BY THE CONTRACTOR AND THE CONTRACTOR SHALL PAY ALL EXPENSES.
- THE CONTRACTOR SHALL NOTIFY THE COUNTY OF MAUI ONE (1) WEEK PRIOR TO CONNECTION TO ANY EXISTING WASTEWATER LINES.
- SHOULD THE CONTRACTOR EXCAVATE BEYOND THE TRENCH PAY-WIDTH, AS SPECIFIED IN THE STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, DATED SEPTEMBER 1984, AND SUCH ACTIONS RESULT IN A GREATER LOAD TO THE PIPE, THE CONTRACTOR SHALL PROVIDE, AT THE CONTRACTOR'S EXPENSE, A HIGHER CLASS OF BEDDING MATERIAL THAT WILL WITHSTAND THE ADDED LOAD.
- WASTEWATER LATERALS SHALL BE SIX (6) INCHES IN DIAMETER AT A MINIMUM OF 1% SLOPE UNLESS APPROVED OTHERWISE.
- AN ADVANCE RISER CONNECTION SHALL BE INSTALLED AT EACH NEW WASTEWATER LATERAL.
- REDWOOD MARKER OR PVC PIPE SHALL BE INSTALLED AT EACH NEW WASTEWATER LATERAL.
- WHERE THE CLEARANCE BETWEEN A WASTEWATER LINE AND A NEW OR EXISTING UTILITY LINE IS EIGHTEEN (18) INCHES OR LESS, THE WASTEWATER LINE SHALL BE CONCRETE JACKETED IN ACCORDANCE WITH THE STANDARD DETAILS OF PUBLIC WORKS CONSTRUCTION, DATED SEPTEMBER 1984.
- WHEN THE WASTEWATER MAINS ARE OF A DIFFERENT MATERIAL THAN THE LATERALS, THE CONTRACTOR SHALL INSTALL APPROVED ADAPTERS.
- ALL BACKFILL FOR WASTEWATER TRENCHES SHALL BE COMPACTED IN ONE (1) FOOT LIFTS TO A MINIMUM OF 95% OF ITS MAXIMUM DENSITY.
- WHERE CONNECTION IS TO BE DONE IN PHASES OR INCREMENTS, EACH PHASE OR INCREMENT SHALL BE APPROVED BY WASTEWATER RECLAMATION DIVISION BEFORE THE NEXT PHASE OR INCREMENT IS STARTED.
- PRIOR TO FINAL ACCEPTANCE, ALL WASTEWATER LINES INSTALLED SHALL BE FLUSHED WITH WATER AND ANY ACCUMULATED CONSTRUCTION DEBRIS AND OTHER FOREIGN MATERIALS SHALL BE REMOVED.
- A SET OF "AS-BUILT" DRAWINGS SHALL BE SUBMITTED TO THE COUNTY OF MAUI BY THE CONTRACTOR AS A CONDITION PRIOR TO ACCEPTANCE OF THE PROJECT. IF MAIN TRANSMISSION LINES WILL BE DEDICATED TO THE COUNTY, THE CONTRACTOR SHALL ALSO SUBMIT GIS SHAPE FILE LAYER FILES (SHAPEFILE DATA IN NAD83 STATE PLANE ZONE 2 METERS) TO THE WASTEWATER RECLAMATION DIVISION.
- ALL MAIN WASTEWATER LINES WHICH WILL BE DEDICATED TO THE COUNTY OF MAUI SHALL BE INSPECTED BY CLOSED CIRCUIT TELEVISION (CCTV) IN STRICT ACCORDANCE WITH DEPARTMENT OF PUBLIC WORKS CCTV POLICY, EFFECTIVE DATE JULY 5, 2001. FINAL ACCEPTANCE OF THE SYSTEM SHALL BE CONTINGENT UPON THE PASSING OF ALL REQUIREMENTS OF THIS POLICY. CCTV RESULTS SHOULD BE SUBMITTED ON DVD PER MEMO DATE OCTOBER 1, 2006.
- ANY CONNECTION MADE UNDER THE WATER TABLE WILL REQUIRE CCTV AT HIGH TIDE TO DETERMINE WATER TIGHTNESS IN ACCORDANCE WITH DEPARTMENT OF PUBLIC WORKS CCTV POLICY, EFFECTIVE JULY 5, 2001. FINAL ACCEPTANCE OF THE SYSTEM SHALL BE CONTINGENT UPON THE PASSING OF ALL REQUIREMENTS OF THIS POLICY.
- CRUSHED ROCK CRADLE IS PERMITTED WHERE THE SOIL IS STABLE. IN AREAS OF UNSTABLE SOIL, THE MAKER OF THE PLANS AND THE CONSTRUCTION (SOILS) ENGINEER WILL DETERMINE THE PIPE SUPPORT REQUIRED.
- THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS RESEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE FACILITIES INCLUDING AND AFFECTING SEWER LINES, AND EXERCISE PROPER CARE IN EXCAVATING THE AREA. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL PAY FOR ALL DAMAGED UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS SEWER SERVICE TO ALL AFFECTED AREAS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SEWAGE SPILLS CAUSED DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE STATE DEPARTMENT OF HEALTH AND UTILIZE APPROPRIATE SAMPLING AND ANALYZING PROCEDURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PUBLIC NOTIFICATIONS AND PRESS RELEASES.

**SEWER NOTES (CONT.)**

- THE CONTRACTOR SHALL INSTALL "RAINSTOPPER" MANHOLE INSERTS IN ALL SEWER MANHOLES WITH TYPE "SA" FRAME AND COVER.
- WHEN CONNECTING TO A LIVE SEWER LINE, THE CONTRACTOR SHALL ABIDE BY ALL CONDITIONS THAT THE DEPARTMENT OF HEALTH SETS FORTH TO MITIGATE ANY WASTEWATER SPILL THAT MAY OCCUR.
- CONTRACTOR MUST HAVE A SITE SPECIFIC SPILL PREVENTION PLAN (SSPPP) APPROVED BY WASTEWATER RECLAMATION DIVISION PRIOR TO SEWER LINE CONSTRUCTION AND/OR SEWER LATERAL CONNECTION TO EXISTING FACILITIES.

**WATER NOTES**

- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF WATER SUPPLY (DWS), IN WRITING, ONE (1) WEEK PRIOR TO COMMENCEMENT OF WORK.
- ALL MATERIALS USED AND METHODS OF CONSTRUCTION OF WATER SYSTEM FACILITIES SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF DWS STANDARDS. CONTRACTOR SHALL OBTAIN THE LATEST REVISIONS OF THE DWS STANDARD DETAILS BEFORE COMMENCING CONSTRUCTION.
- ALL WATER SYSTEM WORK SHALL BE PERFORMED BY THE CONTRACTORS POSSESSING VALID STATE OF HAWAII CONTRACTOR'S LICENSES, REGARDLESS OF THE TILE VALUE OF THE WORK.
- THE EXACT DEPTH AND LOCATION OF EXISTING WATERLINES, SERVICE LATERALS AND OTHER UTILITIES ARE NOT KNOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE PRIOR TO TRENCHING FOR THE NEW WATERLINE. THE COST OF LOWERING, RELOCATING, OR ADJUSTING EXISTING WATERLINES, SERVICE LATERALS AND OTHER UTILITIES SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE NEW WATERLINE, UNLESS NOTED OTHERWISE, AND WILL NOT BE PAID FOR SEPARATELY.
- CONCRETE FOR REACTION BLOCKS AND ANCHOR BLOCKS SHALL BE DWS CLASS 2500.
- THE MAXIMUM DISTANCE BETWEEN VALVE NUT AND TOP OF VALVE MANHOLE COVER SHALL BE THREE (3) FEET.
- THE CONTRACTOR SHALL SUBMIT A MATERIALS LIST TO DWS FOR APPROVAL PRIOR TO CONSTRUCTION.
- CONNECTION TO DWS SYSTEM:
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL NECESSARY FITTINGS AND OTHER MATERIALS AND EQUIPMENT REQUIRED FOR THE HOOK-UP. HE SHALL VERIFY THE EXACT LOCATION, DEPTH, TYPE, AND CONDITION OF THE EXISTING LINE BEFORE ORDERING MATERIALS FOR THE HOOK-UP. HE SHALL, HOWEVER, CHECK WITH DWS BEFORE EXCAVATING FOR VERIFICATION PURPOSES.
  - WHENEVER FEASIBLE, MECHANICAL JOINT FITTINGS SHALL BE USED FOR BURIED APPLICATIONS, AND FLANGED JOINT FITTINGS SHALL BE USED FOR EXPOSED APPLICATIONS.
  - AUTHORIZED DWS PERSONNEL MAY BE REQUIRED TO MAKE THE FINAL CONNECTION TO THE EXISTING LINE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY DWS FOR SAID WORK, INCLUDING THE COST OF PRESSURE TESTING AND DISINFECTION.
  - IF THE DWS PROVIDES ONLY INSPECTION AND SUPERVISING OPERATORS, AND DOES NOT PROVIDE PERSONNEL FOR THE ACTUAL CONNECTION, THE CONTRACTOR SHALL PROVIDE ALL PIPEFITTERS AND LABORERS TO MAKE THE CONNECTION.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL, EQUIPMENT, AND LABOR FOR TRENCH EXCAVATION, BACKFILLING, CLEANING, AND CHLORINATION, PAVING, AND OTHER WORK NECESSARY TO COMPLETE THE HOOK-UP, AS DIRECTED BY AND TO THE SATISFACTION OF DWS.
- MINIMUM COVER OVER WATER MAIN, 6" DIAMETER OR LARGER, SHALL BE 3'-0". MINIMUM COVER FOR 4" DIAMETER SHALL BE 2'-6". MINIMUM COVER FOR DIAMETERS LESS THAN 4" SHALL BE 1'-6".
- BOLTS FOR EXPOSED FLANGED DUCTILE IRON PIPE JOINTS SHALL BE EITHER SILICON BRONZE BOLTS AND NUTS FOR 316 STAINLESS STEEL BOLTING WITH THE HEAVY DUTY STAINLESS STEEL NUTS (ONLY) FURNISHED WITH TRIPAC 2000 BLUE COATING SYSTEM. ANTI-SEIZE SHALL NOT BE USED. T-BOLTS FOR DUCTILE IRON MECHANICAL JOINT (MJ) PIPE AND FITTING CONNECTIONS IN UNDERGROUND SITUATIONS SHALL BE ONE OF THE FOLLOWING SYSTEMS:
  - 316 STAINLESS STEEL T-BOLTS WITH THE HEAVY DUTY STAINLESS STEEL NUTS (ONLY) FURNISHED WITH TRIPAC 2000 BLUE COATING SYSTEM. ANTI-SEIZE SHALL NOT BE USED.
  - COR-TEN T-BOLTS AND NUTS WITH HIGH GRADE ZINC SACRIFICIAL ANODES, EQUIVALENT TO DURATRON SACRIFICIAL "SAC-NUT" MODULES, INSTALLED ON THE NUTS FOR ALL STANDARD COR-TEN T-BOLTS.
  - COR-TEN T-BOLTS AND NUTS BOTH FACTORY COATED WITH TRIPAC 2000 BLUE COATING SYSTEM BY "TRIPAC FASTENERS".
- ALL BURIED MATERIALS SHALL BE WRAPPED WITH POLY-WRAP. FOR ALL BURIED INSTALLATIONS OF DUCTILE IRON PIPE AND FITTINGS, POLY-WRAP IS REQUIRED EXCEPT WITHIN CONCRETE JACKETS.

**WATER NOTES (CONT.)**

- LUBRICATE HYDRANT NOZZLE THREADS WITH NON-TOXIC GREASE.
  - THE CONTRACTOR SHALL PAINT AND NUMBER THE FIRE HYDRANT. NUMBERING TO BE FURNISHED WITH DWS.
  - WATER MAINS AND APPURTENANCES SHALL BE SUBJECT TO HYDROSTATIC TESTING IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C600 UNDER THE "HYDROSTATIC TESTING" SECTION, TO A PRESSURE OF AT LEAST 1.5 TIMES THE WORKING PRESSURE. UNLESS OTHERWISE STATED IN THE CONSTRUCTION DOCUMENTS OR LIMITED BY THE PRESSURE RATING OF EQUIPMENT, THE PRESSURE TEST AND LEAKAGE TEST SHALL BE PERFORMED AT 225 POUNDS PER SQUARE INCH PRESSURE.
  - THE CONTRACTOR SHALL SUBMIT A COST LIST ALONG WITH AN AFFIDAVIT FOR THE WATER SYSTEM PRIOR TO ACCEPTANCE.
  - THE CONTRACTOR SHALL SUBMIT TWO SETS OF RECORD DRAWINGS VIA A CONSULTANT PRIOR TO ACCEPTANCE OF THE WATER SYSTEM. AN ELECTRONIC IMAGE FILE IN TIF FORMAT SHALL BE PROVIDED TO THE DWS FOR ALL PROJECTS.
- CHLORINATION OF WATER SYSTEM NOTES**
- WATER MAINS AND APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651. ALL PROCEDURES AND MATERIALS (LIQUID CHLORINE OR CALCIUM HYPOCHLORITE) USED FOR THE CHLORINATION OF THE PROJECT SHALL CONFORM TO AWWA REQUIREMENTS.
  - PRIOR TO CHLORINATION, THE PROJECT PIPELINES SHALL BE THOROUGHLY CLEANED. CLEANING OF LINES 8" AND LARGER SHALL BE BY PIGGING USING FOAM PIGS. SMALLER LINES CAN BE FLUSHED IN ACCORDANCE WITH AWWA REQUIREMENTS IF ADEQUATE WATER SUPPLY IS PROVIDED, OTHERWISE BY PIGGING. THE CONTRACTOR SHALL SUBMIT HIS PLAN FOR PIPELINE CLEANING, INCLUDING FITTING REQUIREMENTS FOR PIGGING, FOR APPROVAL PRIOR TO PROCEEDING.
  - THE INTERIOR SURFACES OF THE PROJECT SHALL BE EXPOSED TO THE CHLORINATING SOLUTION FOR A MINIMUM OF 24 HOURS AND THE CHLORINE RESIDUAL SHALL NOT BE LESS THAN 10 PPM AFTER SUCH TIME.
  - SHOULD CALCIUM HYPOCHLORITE BE USED, NO SOLID AND/OR UNDISSOLVED PORTION OF THE COMPOUND SHALL BE INTRODUCED INTO ANY SECTION OF THE PROJECT TO BE CHLORINATED.
  - AT THE END OF THE 24-HOUR DISINFECTION PERIOD, REPRESENTATIVE SAMPLES SHALL BE TAKEN AND ANALYZED TO ASSURE A CHLORINE RESIDUAL OF AT LEAST 10 PPM. MEASUREMENTS FOR CHLORINE RESIDUAL TESTS SHALL BE BY A TRAINED, QUALIFIED TESTER APPROVED BY THE DIRECTOR.
  - SHOULD THE RESULTS INDICATE ADEQUATE CHLORINATION, THE PROJECT SHALL BE THOROUGHLY FLUSHED AND FILLED WITH POTABLE WATER FROM THE EXISTING POTABLE WATER SYSTEM AND AGAIN TESTED FOR CHLORINE RESIDUAL. THE FLUSHING SHALL BE CONSIDERED ADEQUATE IF THE TEST RESULTS INDICATE THAT THE WATER IN THE PROJECT HAS A COMPARABLE CHLORINE RESIDUAL AS THE WATER IN THE EXISTING SYSTEM.
  - FOLLOWING THE ACCEPTABLE FLUSHING OF THE HIGH CONCENTRATION CHLORINE SOLUTION, TWO CONSECUTIVE SETS OF ACCEPTABLE SAMPLES SHALL BE TAKEN AT LEAST 24 HOURS APART FROM REPRESENTATIVE POINTS IN THE PROJECT AND SUBJECT TO MICROBIOLOGICAL TESTS PERFORMED BY A CERTIFIED LABORATORY APPROVED BY THE DEPARTMENT OF HEALTH. AT LEAST ONE SET OF SAMPLES SHALL BE COLLECTED AND TESTED FROM EVERY 1,200 FEET OF THE NEW WATER MAIN, PLUS ONE SET FROM THE END OF THE LINE AND AT LEAST ONE SET FROM EACH BRANCH. POSITIVE RESULTS WILL NOT BE ACCEPTABLE AND THE ENTIRE CHLORINATION PROCESS WILL BE REPEATED.
  - ANALYSIS FOR RESIDUAL CHLORINE SHALL BE MADE IN ACCORDANCE WITH "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", AMERICAN PUBLIC HEALTH ASSOCIATION, CURRENT EDITION.
  - MICROBIOLOGICAL TESTS SHALL BE MADE IN ACCORDANCE WITH "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", AMERICAN PUBLIC HEALTH ASSOCIATION, CURRENT EDITION.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ALL OF THE FOREGOING.

**HAZARDOUS WASTE NOTES**

- HAZARDOUS AND REGULATED MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. HAZARDOUS MATERIAL WAS DETECTED AT THE SITE AS SPECIFIED IN THE "LIMITED HAZARDOUS MATERIALS SURVEY REPORT, DEPARTMENT OF LAND AND NATURAL RESOURCES (DLNR) MAUI OFFICE ANNEX BUILDING; MAUI, HAWAII," DATED MARCH 16, 2015, PREPARED BY ENVROSERVICES & TRAINING CENTER, LLC.
- MATERIALS CONTAINING GLASS FIBERS SHALL BE HANDLED WITH THE APPROPRIATE PROTECTIVE EQUIPMENT TO PREVENT INHALATION OR INGESTION OF FIBERS AND CONTACT WITH THE SKIN AND MUCOUS MEMBRANES.
- ALL FRIABLE ASBESTOS CONTAINING MATERIALS (ACM) SHALL BE REMOVED AND DISPOSED OF BY A QUALIFIED ASBESTOS ABATEMENT CONTRACTOR.
- ANY NON-FRIABLE ACM WHICH COULD BE CRUMBLLED AND PULVERIZED DURING DEMOLITION ACTIVITIES MUST BE REMOVED AND DISPOSED OF BY A QUALIFIED ASBESTOS ABATEMENT CONTRACTOR.
- CONTRACTOR SHALL RETAIN INDEPENDENT AND QUALIFIED AIR MONITORING PERSONNEL AND TESTING LABORATORY TO PERFORM AIR MONITORING DURING HAZARDOUS MATERIAL ABATEMENT WORK. AIR MONITORING SHALL BE CONDUCTED FOR AIRBORNE ASBESTOS FIBERS DURING ASBESTOS REMOVAL ACTIVITIES. AIR MONITORING SHALL ALSO BE CONDUCTED FOR AIRBORNE LEAD AND ARSENIC BY THE INDEPENDENT INSPECTOR DURING ANY LEAD OR ARSENIC REMOVAL ACTIVITIES. TESTING LABORATORY SHALL SUBMIT REPORTS DIRECTLY TO THE ENGINEER'S AUTHORIZED REPRESENTATIVE.
- THE AIR MONITORING PERSONNEL SHALL BE ONSITE DURING THE REMOVAL OF HAZARDOUS MATERIALS. CONTRACTOR SHALL PROVIDE A MINIMUM FIVE (5) DAYS NOTICE PRIOR TO ANY HAZARDOUS MATERIAL WORK.
- CONTRACTOR SHALL ENSURE COMPLIANCE WITH APPLICABLE ENVIRONMENTAL PROTECTION AGENCY (EPA), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND HAWAII OCCUPATIONAL SAFETY AND HEALTH (HIOSH) REGULATIONS.

| HAZARDOUS MATERIAL TO ABATE PRIOR TO BUILDING DEMOLITION |                    |                                                    |           |
|----------------------------------------------------------|--------------------|----------------------------------------------------|-----------|
| MATERIAL                                                 | INTERIOR/ EXTERIOR | DESCRIPTION                                        | EST. AMT. |
| ACM (NON-FRIABLE I)                                      | INTERIOR           | 9"x9" BROWN VINYL FLOOR TILE                       | 3,000 SF  |
| LCP                                                      | EXTERIOR           | LIGHT BROWN OVER GREEN PAINT ON WOOD WINDOW FRAMES | 30 SF     |
| LCP                                                      | EXTERIOR           | PINK PAINT ON BRICK WALLS                          | 120 SF    |
| MERCURY                                                  | INTERIOR           | FLORESCENT LIGHTS                                  | 54 EA     |

**NOTE:**

- ESTIMATED QUANTITIES ARE PROVIDED FOR GENERAL REFERENCE ONLY AND FOR CONTRACT CONVENIENCE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL QUANTITIES.
- REMOVAL OF LBP PRIOR TO BUILDING DEMOLITION SHALL BE BASED ON RESULTS FROM TCLP (TOXICITY CHARACTERISTIC LEACHING PROCEDURE) TESTING AND AS PER STATE DEPARTMENT OF HEALTH STANDARDS.

| REVISION NO.                                                                                                                                                   | SYM. | DESCRIPTION          | SHT./OF | DATE              | APPROVED |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------|---------|-------------------|----------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION<br><br>MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII<br><br>GENERAL NOTES - 2 |      |                      |         |                   |          |
| DESIGNED: CK                                                                                                                                                   |      | SUBMITTED: <i>ac</i> |         |                   |          |
| DRAWN: CK                                                                                                                                                      |      | DATE: 03/15/2016     |         |                   |          |
| CHECKED: YT                                                                                                                                                    |      | SCALE: N/A           |         |                   |          |
| APPROVED: <i>[Signature]</i>                                                                                                                                   |      | DATE: MAR 23 2016    |         | DRAWING NO. T1.01 |          |
| CHIEF ENGINEER                                                                                                                                                 |      |                      |         |                   |          |

**PUBLIC HEALTH AND SAFETY NOTES**

1. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH AND 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 STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.
3. THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS RESULTING FROM HIS WORK AND DEPOSITED IN DOWNSTREAM WATERWAYS, DITCHES AND DRAIN PIPES, PUBLIC AND PRIVATE ROADWAYS, AND OTHER AREAS. THE COST INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE COUNTY SHALL BE PAYABLE BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL NOT PERFORM ANY CONSTRUCTION OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW INTO EXISTING CITY OR STATE DRAINAGE SYSTEMS, OR 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.
5. 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.
6. DURING NON-WORKING HOURS ALL LANES SHALL BE OPEN AND ALL EXCAVATIONS ON THE ROADWAY SHALL BE COVERED WITH A SAFE NON-SKID BRIDGING MATERIAL. DRIVEWAYS SHALL BE KEPT OPEN UNLESS THE OWNERS TO THE PROPERTY USING THESE RIGHTS-OF-WAYS ARE OTHERWISE PROVIDED FOR SATISFACTORILY.
7. THE CONTRACTOR'S ATTENTION IS DIRECTED TO CHAPTER 46, PUBLIC HEALTH REGULATIONS, STATE DEPARTMENT OF HEALTH, STATE OF HAWAII, "COMMUNITY NOISE CONTROL," IN WHICH MAXIMUM PERMISSIBLE NOISE LEVELS HAVE BEEN SET. IF THE CONSTRUCTION WORK REQUIRES A PERMIT FROM THE STATE DIRECTOR OF HEALTH, THE CONTRACTOR SHALL OBTAIN A COPY OF CHAPTER 46 AND BECOME FAMILIAR WITH THE NOISE LEVEL RESTRICTIONS AND THE PROCEDURES FOR OBTAINING A PERMIT FOR THE CONSTRUCTION ACTIVITIES. APPLICATION AND INFORMATION ON VARIANCES ARE AVAILABLE FROM THE ENVIRONMENTAL HEALTH SERVICES DIVISION, INDOOR AND RADIOLOGICAL HEALTH BRANCH, NOISE SECTION, 591 ALA MOANA BOULEVARD, ROOM 133, HONOLULU, HI 96813 OR BY TELEPHONE (586-4700).

**ENVIRONMENTAL PROTECTION NOTES**

1. IN ACCORDANCE WITH CHAPTER 11-60.1, AIR POLLUTION CONTROL, TITLE 11, HAWAII ADMINISTRATIVE RULES, THE PROPERTY OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR ENSURING THAT EFFECTIVE CONTROL MEASURES ARE PROVIDED TO MINIMIZE OR PREVENT ANY VISIBLE DUST EMISSION CAUSED BY THE CONSTRUCTION WORK FROM IMPACTING THE SURROUNDING AREAS INCLUDING THE OFF-SITE ROADWAYS USED TO ENTER/EXIT THE PROJECT. THESE MEASURES INCLUDE BUT ARE NOT LIMITED TO THE USE OF WATER WAGON, SPRINKLER SYSTEMS, DUST FENCES, ETC.
2. IN ACCORDANCE WITH CHAPTER 11-55, WATER POLLUTION CONTROL AND CHAPTER 11-54, WATER QUALITY STANDARDS, TITLE 11, HAWAII ADMINISTRATIVE RULES, THE PROPERTY OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR ENSURING THAT THE BEST MANAGEMENT PRACTICE (BMP) TO MINIMIZE OR PREVENT THE DISCHARGE OF SEDIMENTS, DEBRIS, AND OTHER WATER POLLUTANTS INTO STATE WATERS IS PROVIDED.
3. IN ACCORDANCE WITH CHAPTER 11-58.1, SOLID WASTE MANAGEMENT CONTROL, TITLE 11, HAWAII ADMINISTRATIVE RULES, THE PROPERTY OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR ENSURING THAT GRUB MATERIAL, DEMOLITION WASTE AND CONSTRUCTION WASTE GENERATED BY THE PROJECT ARE DISPOSED OF IN A MANNER OR AT A SITE APPROVED BY THE STATE DEPARTMENT OF HEALTH. DISPOSAL OF ANY OF THESE WASTES BY BURNING IS PROHIBITED.
4. IN ACCORDANCE WITH CHAPTER 11-56, COMMUNITY NOISE, HAWAII ADMINISTRATIVE RULES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING EFFECTIVE CONTROL MEASURES TO MINIMIZE OR PREVENT CONSTRUCTION RELATED NOISE FROM IMPACTING THE RESIDENTS IN THE IMMEDIATE AREA. IF REQUIRED, NOISE REDUCTION MEASURES SHALL BE IMPLEMENTED BY THE CONTRACTOR DURING THE CONSTRUCTION WORK AT NO ADDITIONAL COST TO THE STATE.

**ARCHAEOLOGICAL NOTE**

IN THE EVENT THAT HISTORIC RESOURCES, INCLUDING HUMAN SKELETAL REMAINS, CULTURAL LAYERS, CULTURAL DEPOSITS, FEATURES, ARTIFACTS, OR SINKHOLES, LAVA TUBES OR LAVA BUSTERS/BUBBLES ARE IDENTIFIED DURING CONSTRUCTION ACTIVITIES, ALL WORK SHOULD CEASE IN THE IMMEDIATE VICINITY OF THE FIND, THE FIND SHOULD BE PROTECTED FROM ADDITIONAL DISTURBANCE, AND THE STATE HISTORIC PRESERVATION DIVISION SHOULD BE CONTACTED IMMEDIATELY AT (808) 692-8015.

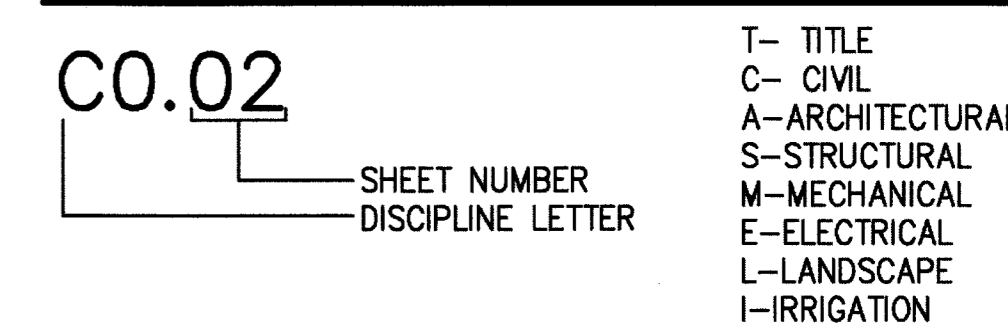
**(2004 ADAAG) AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES**

1. ALL NEW SIDEWALK AND WALKWAY CROSS SLOPES SHALL BE DEFINED AS THE DIRECTION PERPENDICULAR TO THE PREVALENT PEDESTRIAN FLOW OF TRAVEL. NO WHERE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 1:48 PER ADAAG 403.3.
2. ALL WALKS, HALLS, CORRIDORS, AISLES, SKY WALKS, TUNNEL, AND OTHER SPACES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH ADAAG 206 AND 403.
3. THE RUNNING SLOPE OF AN ACCESSIBLE ROUTE SHALL NOT EXCEED 1:20 PER ADAAG 403.3. IF THE RUNNING SLOPE OF AN ACCESSIBLE ROUTE EXCEEDS 1:20, IT SHALL BE CONSIDERED A RAMP, AND SHALL MEET THE REQUIREMENTS OF ADAAG 405.
4. ADAAG 201.3 TEMPORARY AND PERMANENT STRUCTURES. THESE REQUIREMENTS SHALL APPLY TO TEMPORARY AND PERMANENT BUILDINGS AND FACILITIES.
5. ADAAG 206.1 GENERAL. ACCESSIBLE ROUTES SHALL BE PROVIDED IN ACCORDANCE WITH 206 AND SHALL COMPLY WITH CHAPTER 4.
6. ADAAG 406.1 GENERAL. CURB RAMPS ON ACCESSIBLE ROUTES SHALL COMPLY WITH 406, 405.2 THROUGH 405.5, AND 405.10.

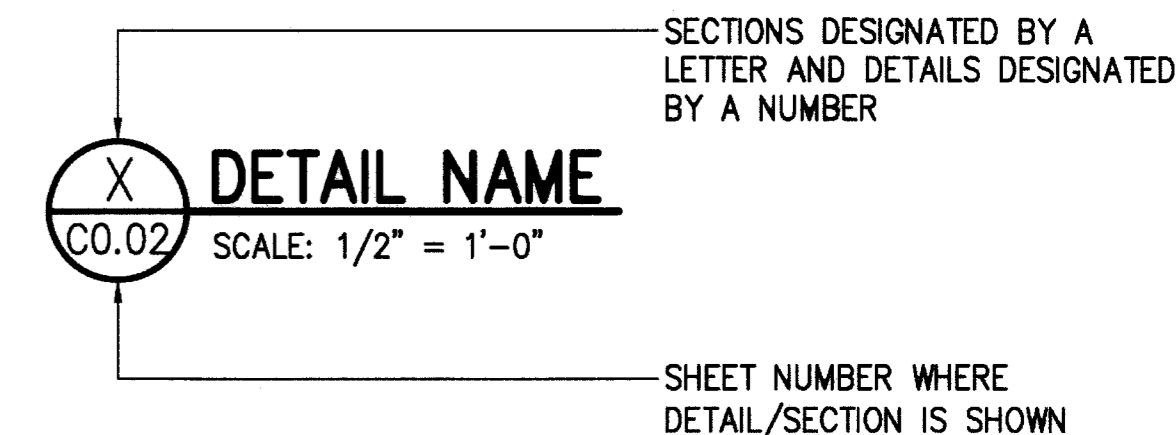
**ABBREVIATIONS**

|           |                              |         |                                     |
|-----------|------------------------------|---------|-------------------------------------|
| AC        | ASPHALT CONCRETE             | HP      | HIGH POINT                          |
| ACM       | ASBESTOS-CONTAINING MATERIAL | HT.     | HEIGHT                              |
| ACP       | ASBESTOS CEMENT PIPE         | IN      | INCHES                              |
| AMT.      | AMOUNT                       | INV     | INVERT                              |
| ARCH      | ARCHITECTURAL                | LCP     | LEAD-CONTAINING PAINT               |
| BC        | BOTTOM OF CURB               | LF      | LINEAR FEET                         |
| BLDG.     | BUILDING                     | LP      | LOW POINT                           |
| BOT.      | BOTTOM                       | MAX.    | MAXIMUM                             |
| BV        | BOTTOM VERTICAL              | MECH.   | MECHANICAL                          |
| BW        | BOTTOM OF WALL               | MFG     | MANUFACTURER                        |
| C/CONC.   | CONCRETE                     | MH      | MANHOLE                             |
| CFS       | CUBIC FEET PER SECOND        | MIN.    | MINIMUM                             |
| CI        | CAST IRON                    | NO.     | NUMBER                              |
| CIP       | CAST IRON PIPE               | O.C.    | ON CENTER                           |
| CL        | CENTERLINE                   | O.D.    | OUTSIDE DIAMETER                    |
| CLR       | CLEARANCE                    | O/H     | OVERHEAD                            |
| CMU       | CONCRETE MASONRY UNIT        | P       | PROPERTY LINE                       |
| CONT.     | CONTINUOUS                   | PERF.   | PERFORATED                          |
| COTG      | CLEANOUT TO GRADE            | PROP.   | PROPOSED                            |
| CP        | COPPER PIPE                  | PVC     | POLYVINYL CHLORIDE                  |
| CY        | CUBIC YARDS                  | PVMT    | PAVEMENT                            |
| DI        | DRAIN INLET OR DUCTILE IRON  | R       | RADIUS                              |
| DS        | DOWNSPOUT                    | R/W     | RIGHT-OF-WAY                        |
| DET.      | DETAIL                       | RET.    | RETAINING (WALL)                    |
| DIA.      | DIAMETER                     | RPBP    | REDUCED PRESSURE BACKFLOW PREVENTER |
| DWG       | DRAWING                      | RPM     | RAISED PAVEMENT MARKER              |
| DWS       | DEPARTMENT OF WATER SUPPLY   | S.L.    | SEWER LINE                          |
| EA        | EACH                         | S       | SEWER                               |
| ED        | EXISTING DRAIN               | SCH.    | SCHEDULE                            |
| EG        | EXISTING GRADE               | SDMH    | STORM DRAIN MANHOLE                 |
| ELEC.     | ELECTRICAL                   | SF      | SQUARE FEET                         |
| ELEV./EL. | ELEVATION                    | SHT     | SHEET                               |
| EQ.       | EQUAL                        | SMH     | SEWER MANHOLE                       |
| E.S.      | EQUALLY SPACED               | SQ.     | SQUARE                              |
| ES        | EXISTING SEWER               | STA     | STATION                             |
| ESMT      | EASEMENT                     | STD.    | STANDARD                            |
| EST.      | ESTIMATED                    | STRUCT. | STRUCTURAL                          |
| E.W.      | EACH WAY                     | SW      | INVERT OF SWALE                     |
| EW        | EXISTING WATER               | S/W     | SIDEWALK                            |
| EXIST.    | EXISTING                     | TC      | TOP OF CURB                         |
| EXP.      | EXPANDED (METAL FENCE)       | TF      | TOP OF FOOTING                      |
| FFE       | FINISHED FLOOR ELEVATION     | THK.    | THICK                               |
| FG        | FINISH GRADE                 | TMK     | TAX MAP KEY                         |
| FH        | FIRE HYDRANT                 | TS      | TOP OF SLAB                         |
| FOC       | FACE OF CURB                 | TV      | TOP VERTICAL                        |
| FPS       | FEET PER SECOND              | TW      | TOP OF WALL                         |
| FT        | FEET                         | TYP.    | TYPICAL                             |
| FTG.      | FOOTING                      | V       | VERTICAL                            |
| G.A.C.    | GRADE ADJUSTMENT CURB        | W       | WATER                               |
| GSP       | GALVANIZED STEEL PIPE        | WL      | WATER LINE                          |
| H         | HIGH OR HORIZONTAL           |         |                                     |

**SHEET NUMBERING NOMENCLATURE**



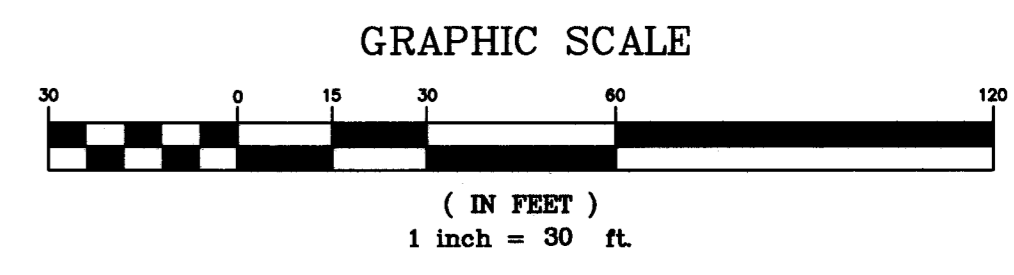
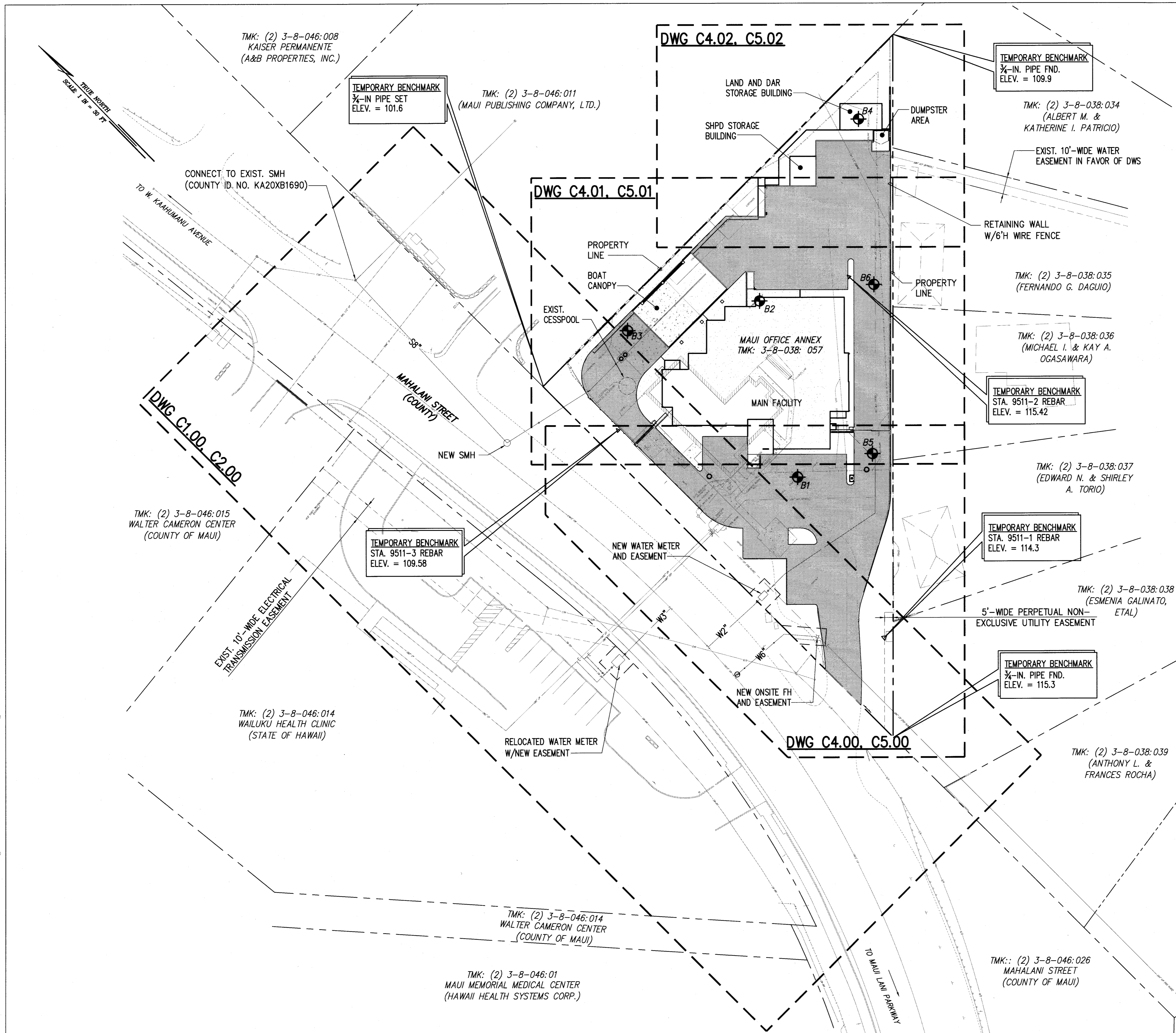
**DETAIL/SECTION TITLE**



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| REVISION NO.                                                                        | SYM.              | DESCRIPTION | SHT./OF    | DATE              | APPROVED |
|-------------------------------------------------------------------------------------|-------------------|-------------|------------|-------------------|----------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION |                   |             |            |                   |          |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                          |                   |             |            |                   |          |
| GENERAL NOTES - 3                                                                   |                   |             |            |                   |          |
| DESIGNED:                                                                           | TN                | SUBMITTED:  | <i>GN</i>  |                   |          |
| DRAWN:                                                                              | TN                | DATE:       | 03/15/2016 |                   |          |
| CHECKED:                                                                            | YT                | SCALE:      | N/A        |                   |          |
| APPROVED:                                                                           | <i>Y. M. Turo</i> |             | DATE:      | MAR 23 2016       |          |
| CHIEF ENGINEER                                                                      |                   | DATE        |            | DRAWING NO. T1.02 |          |

L:\1. PROJECTS\163 - DLNR\16304 - Maui Admin Bldg DESIGN\DRAWINGEN SITE.dwg - 3/16/2016 10:40 AM



- LEGEND**
- PROPERTY LINE
  - - - EXIST. EASEMENT
  - ▨ EXIST. BLDG. TO BE DEMOLISHED
  - B1 BORING LOCATION (TOTAL OF 6)
  - DRAWING LOCATION
  - NEW AC PAVEMENT

NOTE: FOR BORING LOGS, SEE DRAWING C9.00.

**GENERAL SITE PLAN AND SHEET LOCATOR**  
SCALE: 1" = 30'

| REVISION NO.                                                                        | SYM. | DESCRIPTION | SHT. OF    | DATE        | APPROVED |
|-------------------------------------------------------------------------------------|------|-------------|------------|-------------|----------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION |      |             |            |             |          |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                          |      |             |            |             |          |
| GENERAL SITE PLAN AND SHEET<br>LOCATOR                                              |      |             |            |             |          |
| DESIGNED:                                                                           | KS   | SUBMITTED:  | gc         |             |          |
| DRAWN:                                                                              | KS   | DATE:       | 03/15/2016 |             |          |
| CHECKED:                                                                            | YT   | SCALE:      | 1" = 30'   |             |          |
| APPROVED:                                                                           |      | MAR 23 2016 |            | DRAWING NO. |          |
| CHIEF ENGINEER                                                                      |      | DATE        |            | C0.00       |          |

TRUE NORTH  
SCALE 1" = 30'

- NOTES:**
1. PROVIDE ALL DRAIN INLET AND CATCH BASIN PROTECTION IN MAHALANI STREET FOR THE DURATION OF THE PROJECT INCLUDING BOTH ONSITE AND OFFSITE WORK.
  2. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, STRUCTURES, PAVEMENTS, SIDEWALKS, FENCING, CURBS, AND VEGETATION IN WORK AREA, WHETHER OR NOT SHOWN ON PLANS, AT ALL TIMES, UNLESS INDICATED TO BE REMOVED OR RELOCATED.
  3. CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES IN THE FIELD PRIOR TO START OF CONSTRUCTION.
  4. SEE ALSO "CONSTRUCTION NOTES" FOR WORK WITHIN COUNTY RIGHT OF WAY AND "TEMPORARY EROSION CONTROL NOTES" ON SHEET T1.01.

TMK: (2) 3-8-046:008  
KAISER PERMANENTE  
(A&B PROPERTIES, INC.)

TMK: (2) 3-8-046:011  
(MAUI PUBLISHING COMPANY, LTD.)

TMK: (2) 3-8-038:034  
(ALBERT M. &  
KATHERINE I. PATRICIO)

TMK: (2) 3-8-038:035  
(FERNANDO G. DAGUIO)

TMK: (2) 3-8-038:036  
(MICHAEL I. & KAY A.  
OGASAWARA)

TMK: (2) 3-8-038:037  
(EDWARD N. & SHIRLEY  
A. TORIO)

TMK: (2) 3-8-038:038  
(ESMENIA GALINATO,  
ETAL)

TMK: (2) 3-8-038:039  
(ANTHONY L. &  
FRANCES ROCHA)

MAUI OFFICE ANNEX  
TMK: (2) 3-8-038:038  
(STATE OF HAWAII)

CONTRACTOR STAGING AREA

COMPOST FILTER SOCK  
W/STAKES (TYP.)  
PER DET. 2

PROVIDE DRAIN INLET  
PROTECTION PER DET.  
(SEE NOTE 1.) 4

PROVIDE CATCH BASIN  
PROTECTION PER DET.  
(SEE NOTE 1.) 3

SAWCUT AC  
PAVEMENT, TYP.

CONSTRUCTION  
ACCESS PAD  
PER DET. 1

DEMOLISH AND REMOVE SITE  
SIGN, SIGN POSTS AND CONC.  
FOOTINGS. FILL VOID W/NATIVE  
SOIL AND HAND TAMP TO  
MATCH SURROUNDING SOIL  
DENSITY

PROVIDE DRAIN INLET  
PROTECTION PER DET.  
(SEE NOTE 1.) 4

EW3" TO BE  
ABANDONED-  
IN-PLACE

PROVIDE CATCH BASIN  
PROTECTION PER DET.  
(SEE NOTE 1.) 3

COMPOST FILTER SOCK  
W/STAKES (TYP.)  
PER DET. 2

EW2" TO BE  
ABANDONED-  
IN-PLACE

SAWCUT AC  
PAVEMENT, TYP.

TO W. KAAHUMANU  
AVENUE

MAHALANI STREET  
(COUNTY OF MAUI)  
TMK: (2) 3-8-046:026

PROVIDE CATCH BASIN  
PROTECTION PER DET.  
(SEE NOTE 1.) 3

10'-WIDE ELECTRICAL  
TRANSMISSION  
EASEMENT

PROVIDE DRAIN INLET  
PROTECTION PER DET.  
(SEE NOTE 1.) 4

SAWCUT CONC.  
CURB AND  
GUTTER

SAWCUT EXIST. S/W  
AT NEXT ADJACENT  
JOINTS

TO MAUI LAI  
PARKWAY

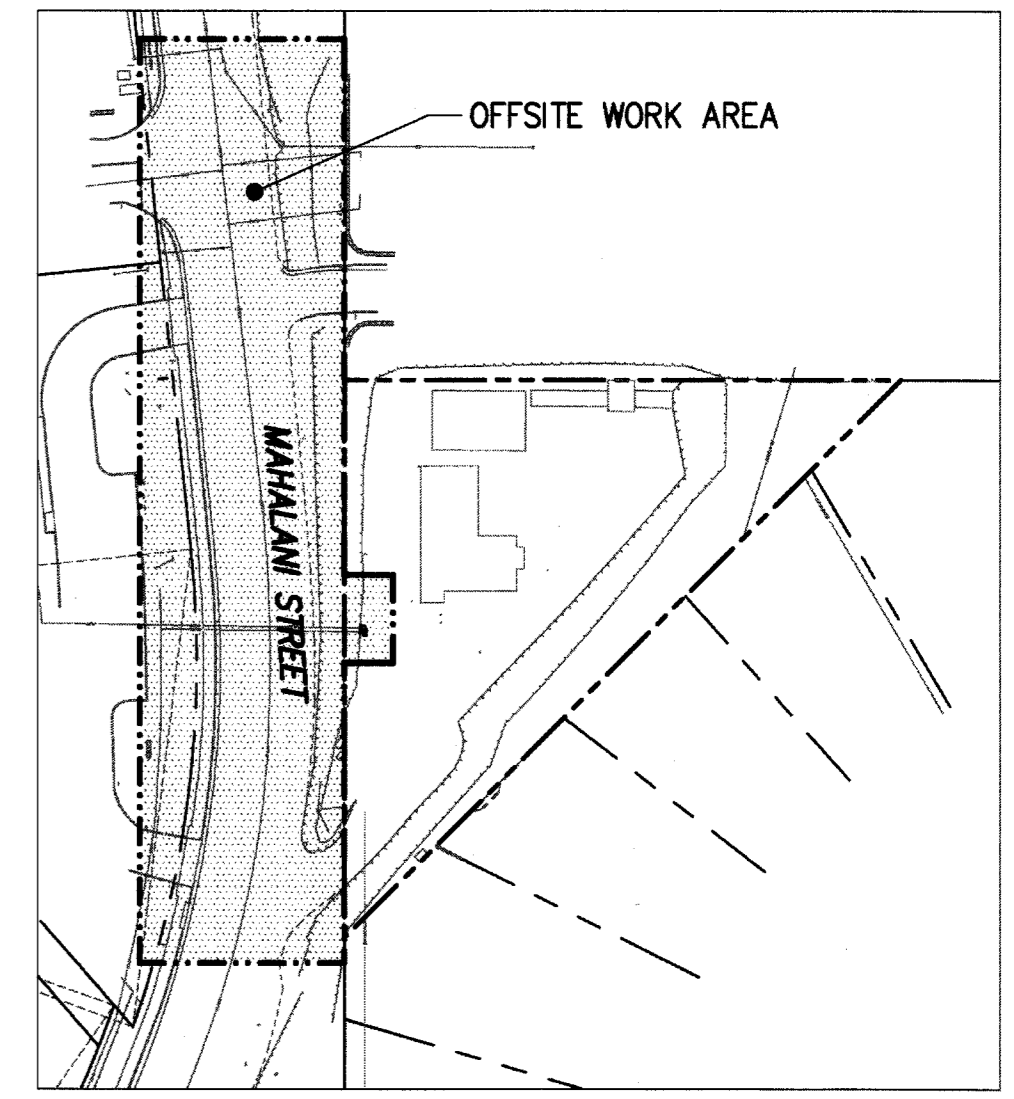
TMK: (2) 3-8-046:015  
WALTER CAMERON CENTER  
(COUNTY OF MAUI)

PROVIDE CATCH BASIN  
PROTECTION PER DET.  
(SEE NOTE 1.) 3

TMK: (2) 3-8-046:014  
WAILUKU HEALTH CENTER  
(STATE OF HAWAII)

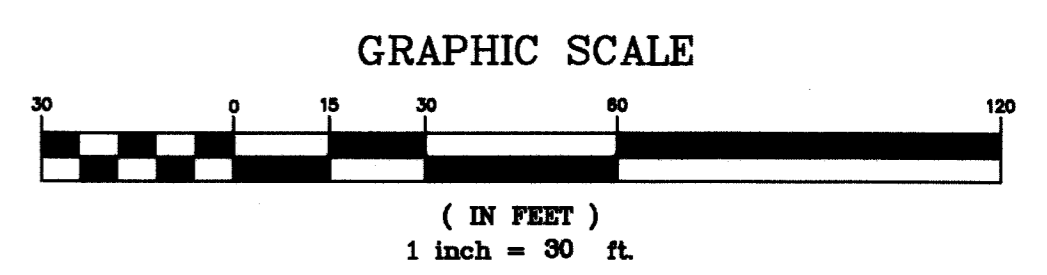
TMK: (2) 3-8-046:014  
WALTER CAMERON CENTER  
(COUNTY OF MAUI)

TMK: (2) 3-8-046:01  
MAUI MEMORIAL MEDICAL CENTER  
(HAWAII HEALTH SYSTEMS CORP.)



**KEY PLAN**  
SCALE: 1" = 100'

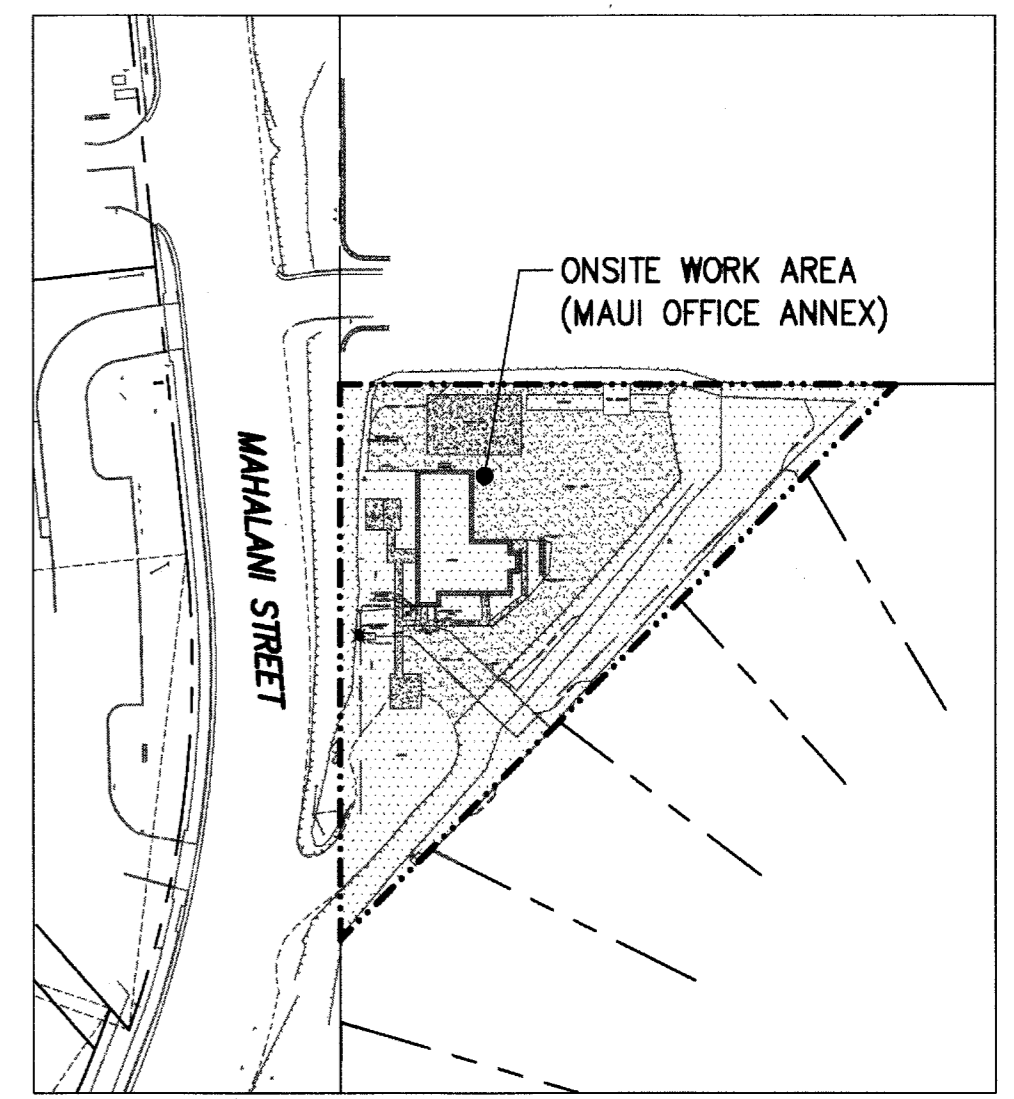
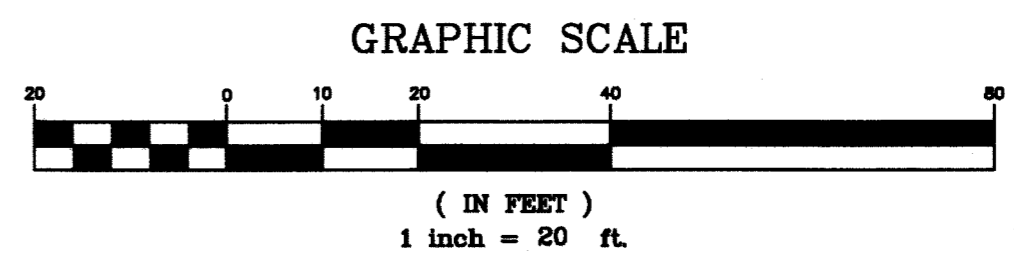
- LEGEND**
- PROPERTY LINE
  - - - - - LIMITS OF WORK AND DISTURBED AREA
  - - - - - EXIST. CONTOUR AND ELEVATION
  - - - - - EXIST. EASEMENT
  - - - - - SAWCUT AC PAVEMENT
  - ▨ COMPOST FILTER SOCK WITH STAKES
  - ▨ COMPOST FILTER SOCK
  - RUNOFF DIRECTION
  - DUST BARRIER



**OFFSITE UTILITY DEMOLITION AND EROSION CONTROL PLAN**  
SCALE: 1" = 30'

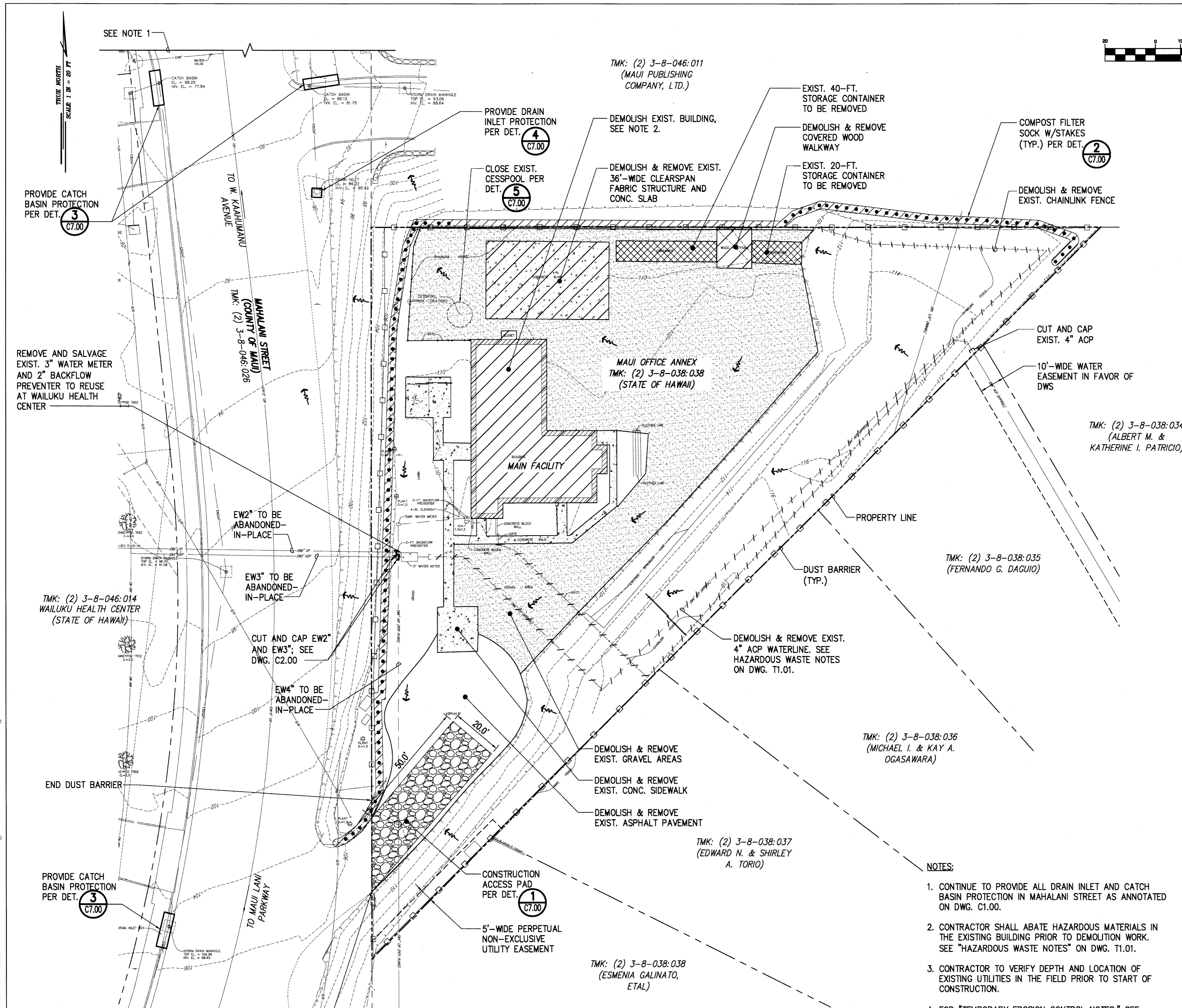
| REVISION NO.                                                                                                                 | SYM.        | DESCRIPTION    | SHT./OF     | DATE        | APPROVED |
|------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|-------------|-------------|----------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION                                          |             |                |             |             |          |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                                                                   |             |                |             |             |          |
| OFFSITE UTILITY DEMOLITION AND<br>EROSION CONTROL PLAN                                                                       |             |                |             |             |          |
| DESIGNED:                                                                                                                    | CK          | SUBMITTED:     | [Signature] |             |          |
| DRAWN:                                                                                                                       | CK          | DATE:          | 03/15/2016  |             |          |
| CHECKED:                                                                                                                     | YT          | SCALE:         | AS SHOWN    |             |          |
| APPROVED:                                                                                                                    | [Signature] |                | DATE:       | MAR 23 2016 |          |
| THIS WORK WAS PREPARED BY ME<br>OR UNDER MY SUPERVISION AND<br>CONSTRUCTION OF THIS PROJECT<br>WILL BE UNDER MY OBSERVATION. |             | CHIEF ENGINEER | DRAWING NO. |             | C1.00    |

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**KEY PLAN**  
SCALE: 1" = 100'

- LEGEND**
- PROPERTY LINE
  - LIMITS OF WORK, GRADING AND DISTURBED AREA
  - - - - - EXIST. CONTOUR AND ELEVATION
  - - - - - EXIST. EASEMENT
  - ▨ COMPOST FILTER SOCK WITH STAKES
  - ▩ COMPOST FILTER SOCK
  - ▧ EXIST. BUILDING TO BE DEMOLISHED
  - ▣ EXIST. STORAGE CONTAINERS TO BE REMOVED
  - ▤ EXIST. CONC. PAD TO BE DEMOLISHED
  - ▥ EXIST. GRAVEL AREAS TO BE DEMOLISHED
  - RUNOFF DIRECTION
  - DUST BARRIER
  - DEMOLISH
  - - - - - EASEMENT



TMK: (2) 3-8-038:034  
(ALBERT M. & KATHERINE I. PATRICIO)

TMK: (2) 3-8-038:035  
(FERNANDO G. DAGUIO)

TMK: (2) 3-8-038:036  
(MICHAEL I. & KAY A. OGASAWARA)

TMK: (2) 3-8-038:037  
(EDWARD N. & SHIRLEY A. TORIO)

TMK: (2) 3-8-038:038  
(ESMENIA GALINATO, ETAL)

- NOTES:**
- CONTINUE TO PROVIDE ALL DRAIN INLET AND CATCH BASIN PROTECTION IN MAHALANI STREET AS ANNOTATED ON DWG. C1.00.
  - CONTRACTOR SHALL ABATE HAZARDOUS MATERIALS IN THE EXISTING BUILDING PRIOR TO DEMOLITION WORK. SEE "HAZARDOUS WASTE NOTES" ON DWG. T1.01.
  - CONTRACTOR TO VERIFY DEPTH AND LOCATION OF EXISTING UTILITIES IN THE FIELD PRIOR TO START OF CONSTRUCTION.
  - FOR "TEMPORARY EROSION CONTROL NOTES," SEE SHEET T1.00.

**ONSITE DEMOLITION AND EROSION CONTROL PLAN**  
SCALE: 1" = 20'

| REVISION NO. | SYM. | DESCRIPTION | SHT./OF | DATE | APPROVED |
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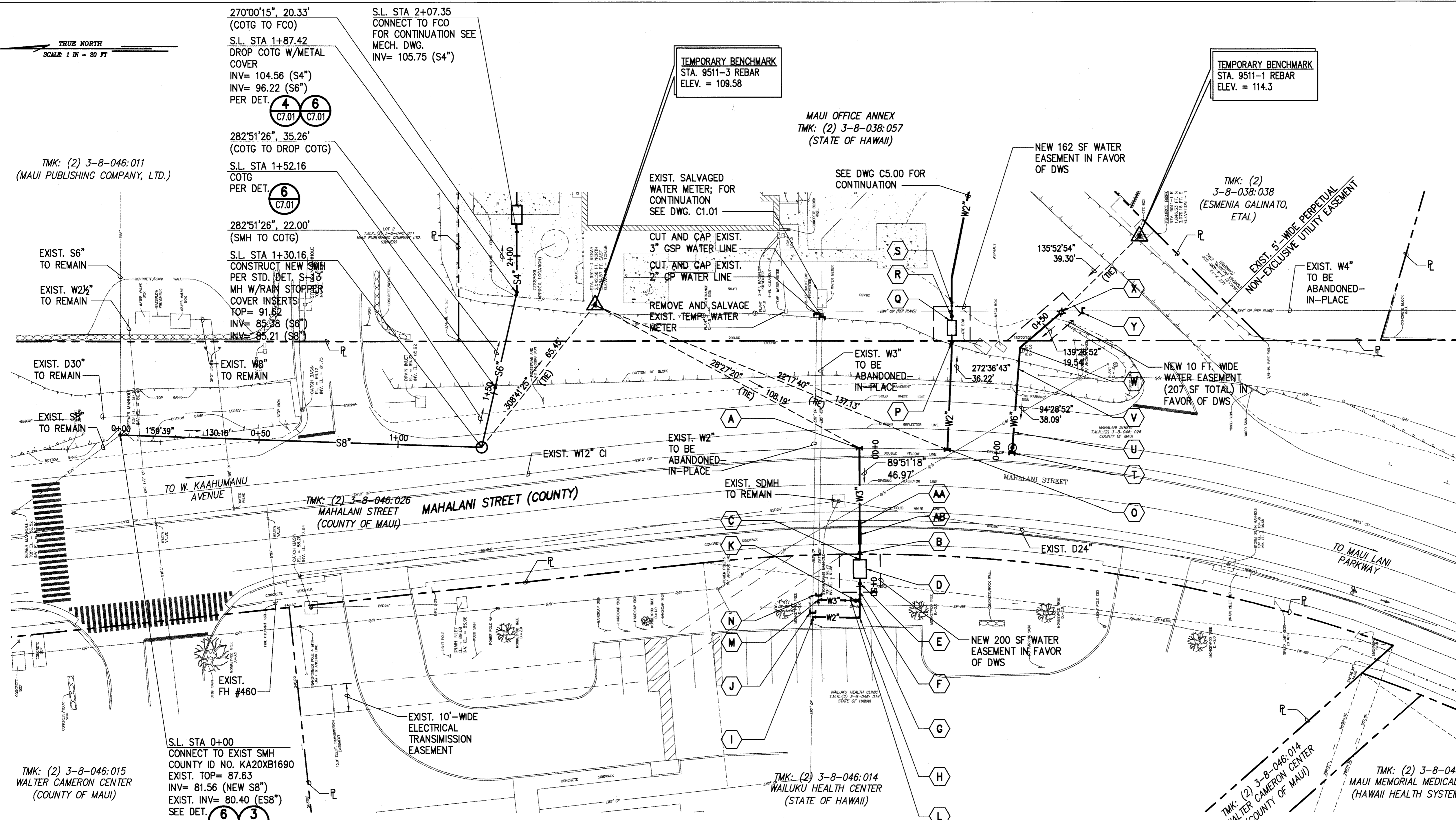
  

|                                                   |                     |                                                                                            |                           |
|---------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------|---------------------------|
|                                                   |                     | <b>STATE OF HAWAII</b><br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION |                           |
| 04/30/2016<br>EXP. DATE                           |                     | <b>MAUI OFFICE ANNEX</b><br>WAILUKU, MAUI, HAWAII                                          |                           |
| <b>ONSITE DEMOLITION AND EROSION CONTROL PLAN</b> |                     |                                                                                            |                           |
| DESIGNED: CK                                      | CHECKED: YT         | SUBMITTED: <i>ck</i>                                                                       | DATE: 03/15/2016          |
| DRAWN: CK                                         | APPROVED: <i>ck</i> | SCALE: AS SHOWN                                                                            | DRAWING NO. C1.01         |
| CHIEF ENGINEER                                    |                     | MAR 23 2016<br>DATE                                                                        | SHEET NO. 8 OF 152 SHEETS |

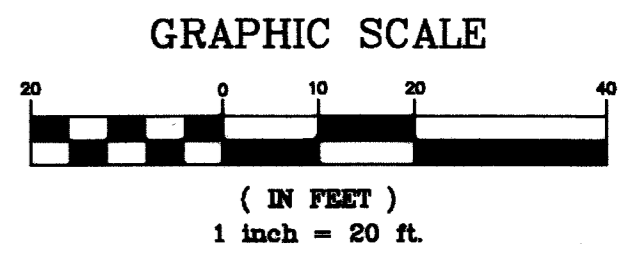
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L:\1 - PROJECTS\63 - DLNR\16304 - Maui Admin Bldg DESIGN\DRAWING\SITE PLAN-Mahalani St.dwg - 3/16/2016 11:18 AM



- LEGEND:**
- PROPERTY LINE
  - W2" — NEW WATER LINE
  - S6" — NEW SEWER LINE
  - ⊗ NEW FIRE HYDRANT

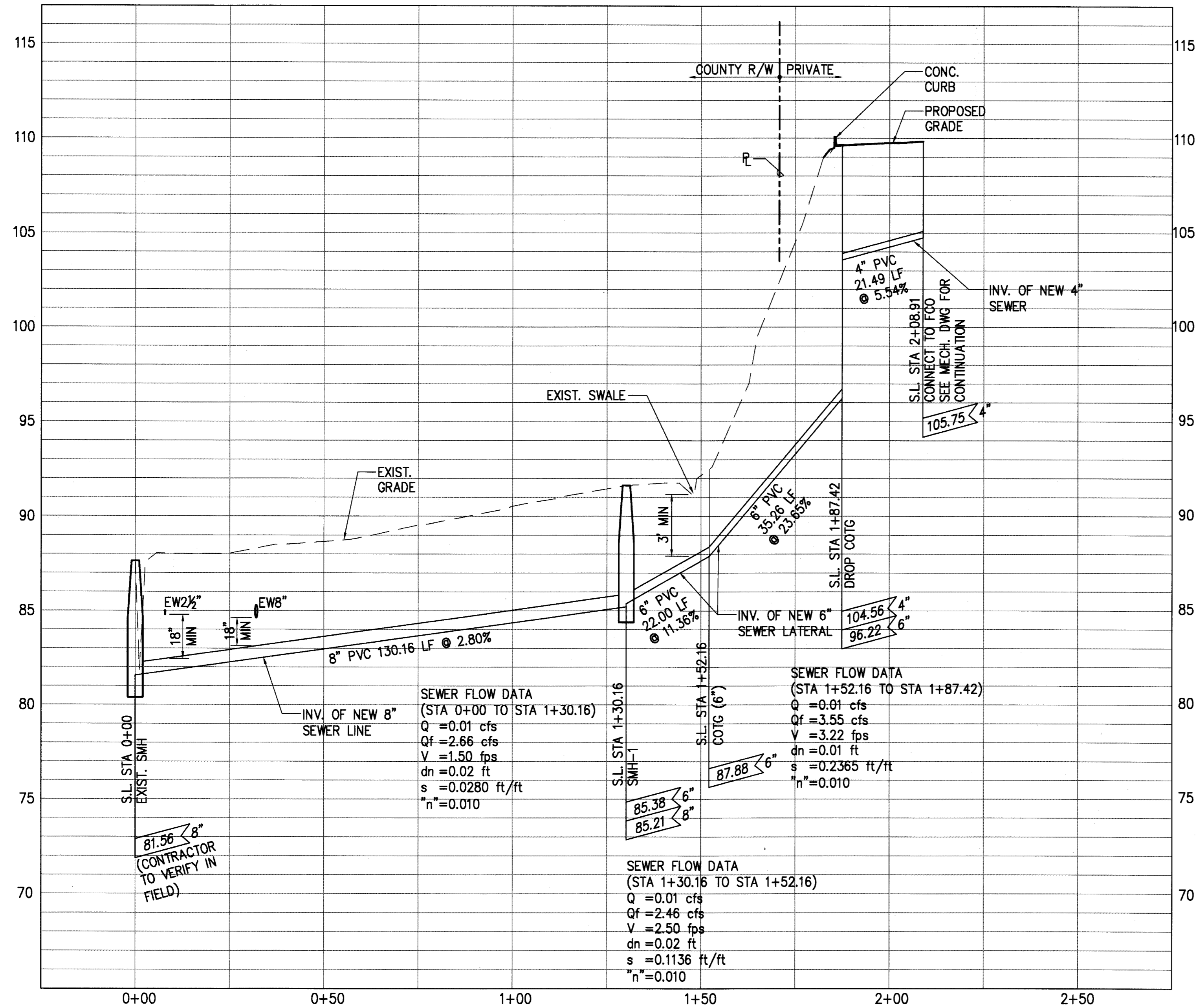


- NOTES:**
1. CONTRACTOR SHALL VERIFY DEPTH AND LOCATION OF ALL UTILITIES IN FIELD PRIOR TO START OF CONSTRUCTION.
  2. ALL PAVEMENT MARKINGS SHALL BE RESTORED TO MATCH EXISTING CONDITIONS.
  3. FOR SEWER LINE, 3" WATER LATERAL AND FH WATER LINE PROFILES, SEE DRAWING C3.00.
  4. RESTORE ALL EXCAVATED AREAS WITHIN MAHALANI STREET AS NOTED OR PER DET. **(1 C7.01)**
  5. SEE ALSO "CONSTRUCTION NOTES FOR WORK WITHIN COUNTY RIGHT OF WAY" AND "TEMPORARY EROSION CONTROL NOTES" ON SHEET T1.01.

**OFFSITE UTILITY PLAN (MAHALANI STREET)**  
SCALE: 1"=20'

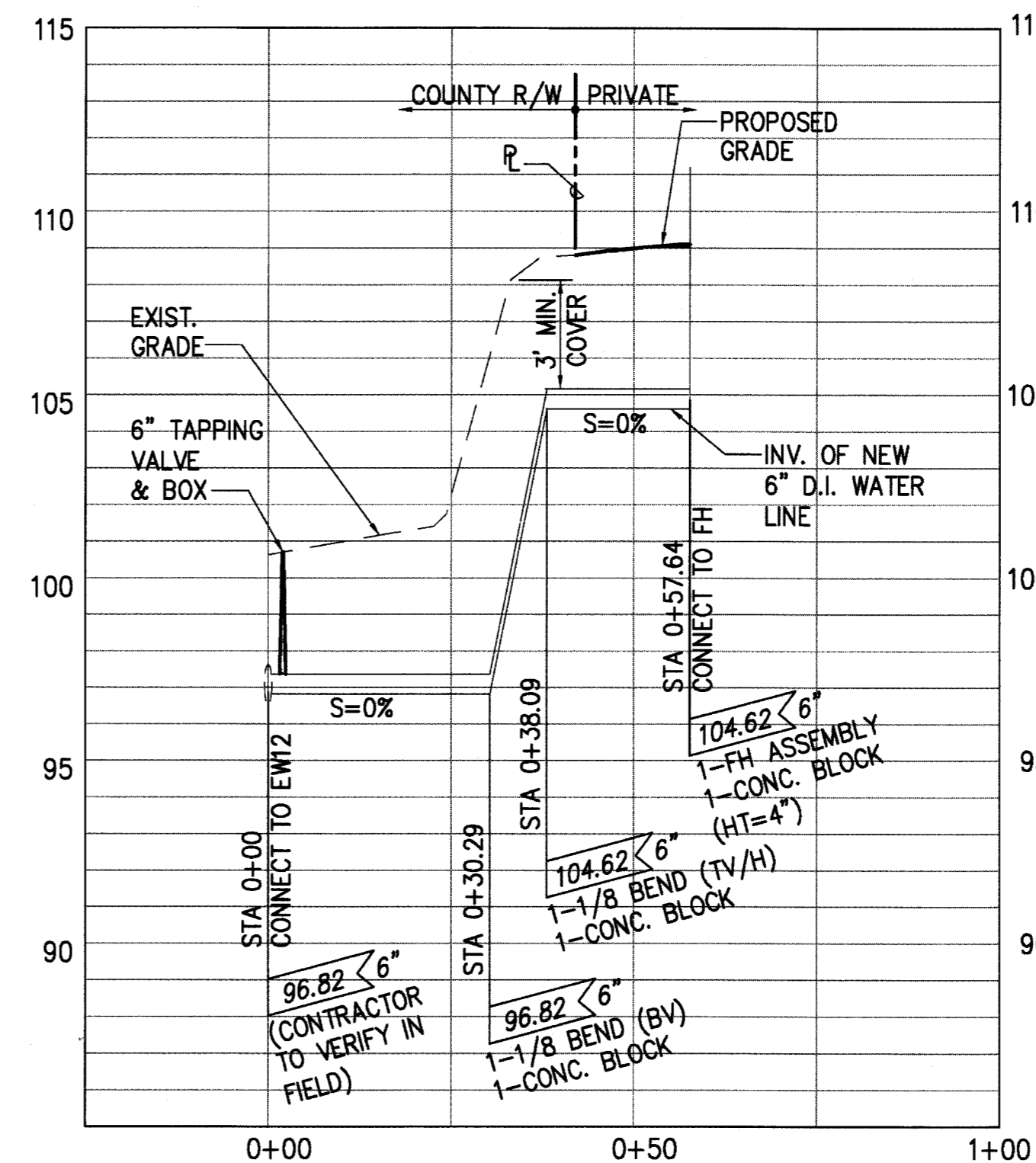
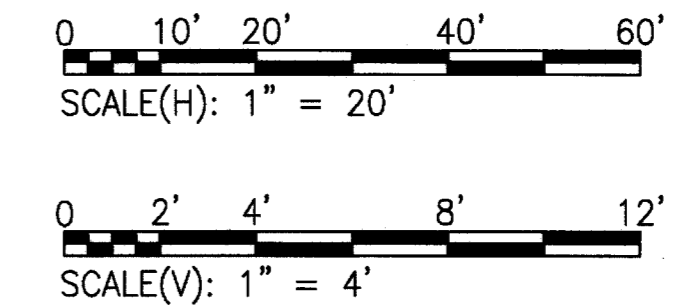
- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>A</b> WAILUKU HEALTH CENTER SERVICE CONNECTION<br/>3" WATER LATERAL STA 0+00 (BEGIN LATERAL)<br/>1-12"x3" TAPPING SLEEVE<br/>1-3" TAPPING VALVE, 150#<br/>1-VALVE BOX (C.I.)<br/>1-CONC. BLOCK W/ STRUCT. STRUTS</p> <p><b>B</b> 3" GATE VALVE AND VALVE BOX</p> <p><b>C</b> 3" WATER LATERAL STA 0+40.30<br/>CONNECT TO SALVAGED 3" WATER METER<br/>(COORDINATE WORK WITH DWS)</p> <p><b>D</b> 3" DOUBLE-CHECK DETECTOR ASSEMBLY MANHOLE<br/>PER DWS STD DET. M23 (SIZE: 6'-8"x4'-8")</p> <p><b>E</b> 3" GATE VALVE AND VALVE BOX</p> <p><b>F</b> SALVAGED 3" REDUCED PRESSURE BACKFLOW<br/>PREVENTER; SEE DET. <b>(5 C7.01)</b></p> | <p><b>G</b> 3" WATER LATERAL STA 0+55.01 (END LATERAL)<br/>BEGIN 3" IRRIGATION LINE<br/>BEGIN 2" WATER SERVICE LINE<br/>1-3" TEE<br/>1-3"x2" REDUCER</p> <p><b>H</b> 1-2" 1/4 BEND(H)</p> <p><b>I</b> CONNECT NEW 2" COPPER LATERAL TO EXIST. 2"<br/>COPPER WATER LINE<br/>1-2" 1/4 BEND(H)</p> <p><b>J</b> CUT AND CAP EXIST. W2" CP</p> <p><b>K</b> 3" GATE VALVE AND VALVE BOX</p> <p><b>L</b> 3" DOUBLE CHECK BACKFLOW PREVENTER<br/>(FROM DWS APPROVED MATERIALS LIST),<br/>SEE DET. <b>(5 C7.01)</b></p> | <p><b>M</b> CONNECT NEW 3" COPPER IRRIGATION LINE TO<br/>EXIST. 3" GALV. STEEL IRRIGATION LINE, INSTALL<br/>DIALECTRIC COUPLING<br/>1-3" 1/4 BEND(H)</p> <p><b>N</b> CUT AND CAP EXIST. W3" GSP</p> <p><b>O</b> MAUI OFFICE ANNEX SERVICE CONNECTION<br/>INSTALL TYPE "D" SINGLE SERVICE<br/>1-12" DOUBLE STRAP SERVICE SADDLE W/2" TAP<br/>PER DWS STD. DET. L33</p> <p><b>P</b> 2" BALL VALVE AND VALVE BOX</p> <p><b>Q</b> 1-1/2" METER MH PER DWS STD. DET. M12<br/>(COORDINATE INSTALLATION OF METER W/DWS)</p> <p><b>R</b> 1-1/2" BALL VALVE AND VALVE BOX<br/>1-1/2" REDUCED PRESSURE BACKFLOW PREVENTER,<br/>SEE DET. <b>(5 C7.01)</b></p> | <p><b>S</b> 1-1 1/2"x2" REDUCER</p> <p><b>T</b> FH WATER LINE STA. 0+00<br/>FH CONNECTION PER DWS STD. DET. FH6<br/>1-12"x6" TAPPING TEE<br/>1-6" TAPPING VALVE, 150#<br/>57.63 LF OF 6" D.I. PIPE<br/>1-VALVE BOX (C.I.)<br/>1-CONC. BLOCK W/ STRUCT. STRUTS</p> <p><b>U</b> 1-FH RPM PER DWS STD. DET. FH12</p> <p><b>V</b> FH WATER LINE STA 0+30.29<br/>1-6" 1/8 BEND (BV)<br/>1-CONC. BLOCK</p> <p><b>W</b> FH WATER LINE STA 0+38.09<br/>1-6" 1/8 BEND (TV/H)<br/>1-CONC. BLOCK</p> | <p><b>X</b> FH WATER LINE STA 0+57.64<br/>1-FH ASSEMBLY (4'H)<br/>1-6" 1/4 BEND (BV)<br/>1-CONC. BLOCK</p> <p><b>Y</b> CUT AND CAP EXIST. 4" CIP WATER LINE</p> <p><b>AA</b> RESTORE CONC. CURB AND GUTTER PER<br/>DET. <b>(4 C7.06)</b></p> <p><b>AB</b> RESTORE 6'-WIDE CONC. S/W PER DET. <b>(5 C7.06)</b></p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| REVISION NO.                                                                        | SYM. | DESCRIPTION          | SHT./OF | DATE                        | APPROVED |
|-------------------------------------------------------------------------------------|------|----------------------|---------|-----------------------------|----------|
|                                                                                     |      |                      |         |                             |          |
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION |      |                      |         |                             |          |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                          |      |                      |         |                             |          |
| OFFSITE UTILITY PLAN (MAHALANI<br>STREET)                                           |      |                      |         |                             |          |
| DESIGNED: YT                                                                        |      | SUBMITTED: <i>KS</i> |         | DATE: 03/15/2016            |          |
| DRAWN: KS                                                                           |      | CHECKED: YT          |         | SCALE: 1" = 20'             |          |
| APPROVED:<br><i>Yvonne M. Turro</i><br>CHIEF ENGINEER                               |      | DATE: MAR 23 2016    |         | DRAWING NO.<br><b>C2.00</b> |          |



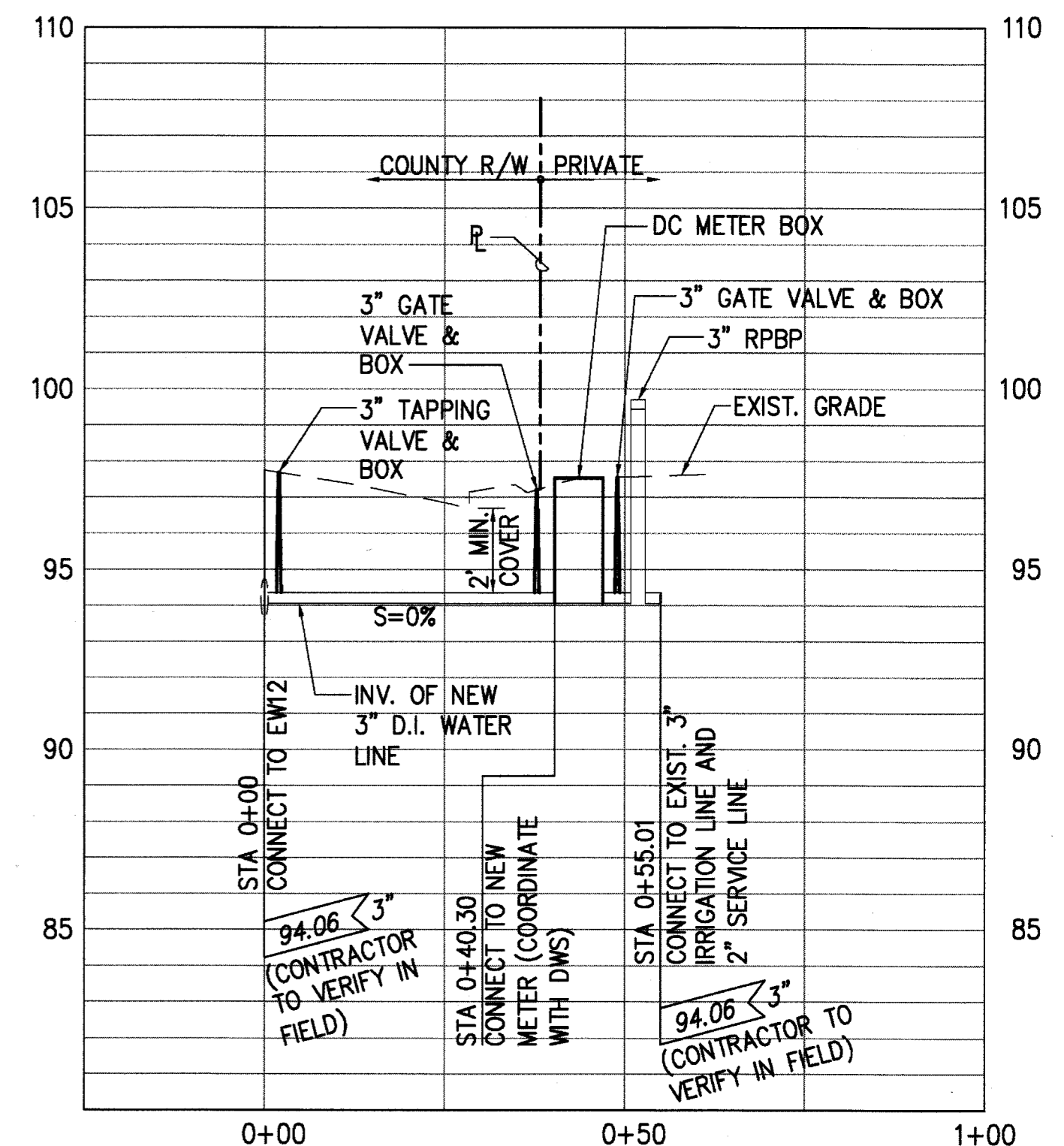
**PROFILE - SEWER LINE PROFILE**

SCALE: HORIZ. 1"=20'  
 VERT. 1"=4'



**PROFILE - FH WATER LINE**

SCALE: HORIZ. 1"=20'  
 VERT. 1"=4'



**PROFILE - 3" WATER LATERAL**

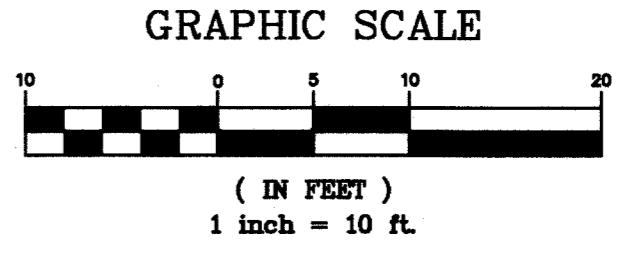
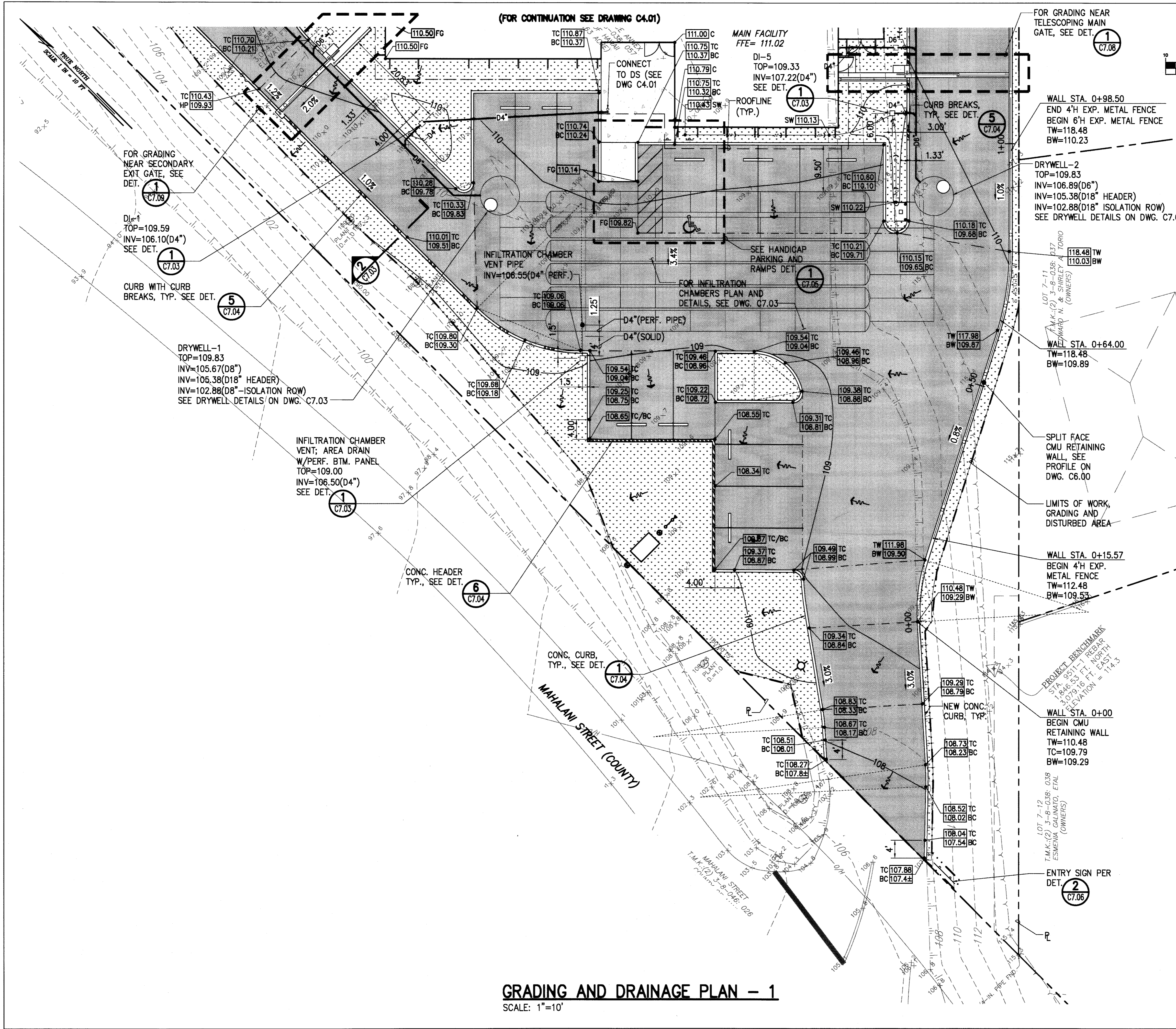
SCALE: HORIZ. 1"=20'  
 VERT. 1"=4'

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DIRECTOR  
 DEPARTMENT OF WATER SUPPLY  
 COUNTY OF MAUI  
 (FOR WORK TO BE DEDICATED TO DWS)

| REVISION NO.                                                                        | SYM.                                 | DESCRIPTION | SHT./OF    | DATE        | APPROVED |
|-------------------------------------------------------------------------------------|--------------------------------------|-------------|------------|-------------|----------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION |                                      |             |            |             |          |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                          |                                      |             |            |             |          |
| OFFSITE UTILITY PROFILES                                                            |                                      |             |            |             |          |
| DESIGNED:                                                                           | MM                                   | SUBMITTED:  |            |             |          |
| DRAWN:                                                                              | KS                                   | DATE:       | 03/15/2016 |             |          |
| CHECKED:                                                                            | YT                                   | SCALE:      | AS SHOWN   |             |          |
| APPROVED:                                                                           | <i>[Signature]</i><br>CHIEF ENGINEER |             | DATE:      | MAR 23 2016 |          |
| DRAWING NO. C3.00                                                                   |                                      |             |            |             |          |

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- LEGEND:**
- PROPERTY LINE
  - - - - - LIMITS OF WORK, GRADING AND DISTURBED AREA
  - 110--- PROP. GRADE CONTOUR
  - - - - -110--- EXIST. CONTOUR
  - 112.57 PROP. SPOT ELEVATION
  - 108x5 EXIST. SPOT ELEVATION
  - [Stippled Area] LANDSCAPED AREA
  - EXIST. TOP OF SLOPE
  - EXIST. BOTTOM OF SLOPE
  - PROP. TOP OF SLOPE
  - PROP. BOTTOM OF SLOPE
  - FLOW DIRECTION
  - SWALE FLOW LINE
  - GRADE BREAK
  - 3.8% SLOPE
  - CURB BREAK OR CONC. HEADER
  - o---o EXPANDED METAL FENCE
  - ROOF OVERHANG

- NOTES:**
1. FOR LANDSCAPE AND IRRIGATION PLANS, SEE LANDSCAPE DRAWINGS.
  2. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IN ALL DIRECTIONS.

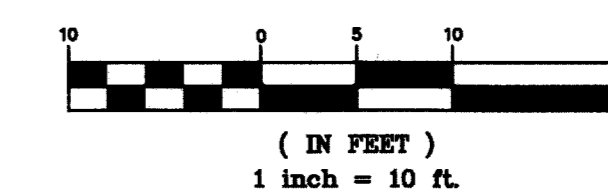
**EARTHWORK QUANTITIES:**

|                      |              |
|----------------------|--------------|
| EXCAVATION           | = 1,581 C.Y. |
| EMBANKMENT           | = 430 C.Y.   |
| AREA TO BE GRADED    | = 0.89 ACRES |
| AREA TO BE DISTURBED | = 0.89 ACRES |

**GRADING AND DRAINAGE PLAN - 1**  
SCALE: 1"=10'

| REVISION NO.                                                                        | SYM.                                 | DESCRIPTION | SHT./OF    | DATE        | APPROVED                    |
|-------------------------------------------------------------------------------------|--------------------------------------|-------------|------------|-------------|-----------------------------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION |                                      |             |            |             |                             |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                          |                                      |             |            |             |                             |
| GRADING AND DRAINAGE PLAN - 1                                                       |                                      |             |            |             |                             |
| DESIGNED:                                                                           | CJ                                   | SUBMITTED:  |            |             |                             |
| DRAWN:                                                                              | CK                                   | DATE:       | 03/15/2016 |             |                             |
| CHECKED:                                                                            | YT                                   | SCALE:      | 1" = 10'   |             |                             |
| APPROVED:                                                                           | <i>[Signature]</i><br>CHIEF ENGINEER |             | DATE:      | MAR 23 2016 |                             |
|                                                                                     |                                      |             |            |             | DRAWING NO.<br><b>C4.00</b> |

GRAPHIC SCALE

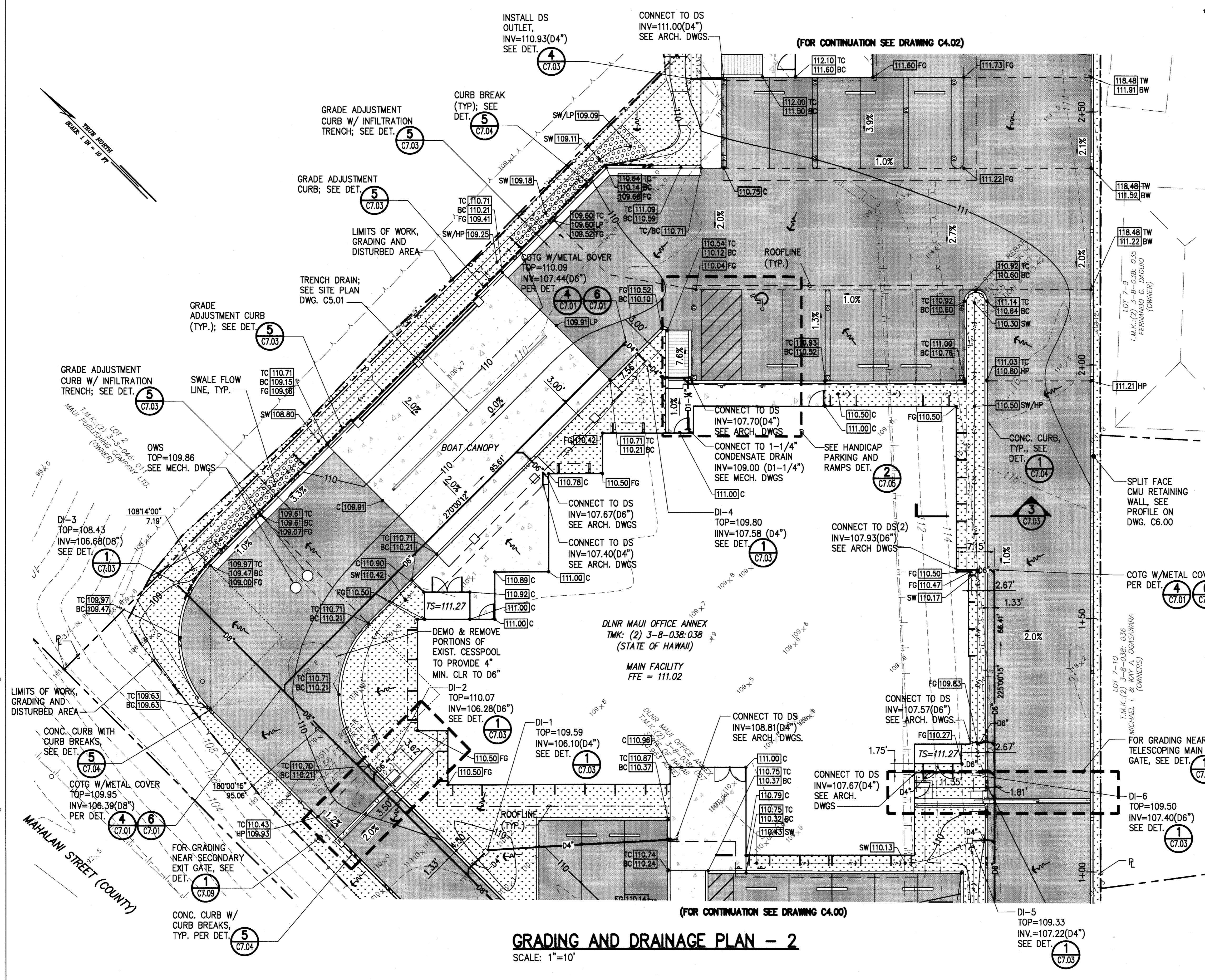


LEGEND:

- PROPERTY LINE
- - - - - LIMITS OF WORK, GRADING AND DISTURBED AREA
- 110--- PROP. GRADE CONTOUR
- - - - -110--- EXIST. CONTOUR
- 112.57 PROP. SPOT ELEVATION
- 108x5 EXIST. SPOT ELEVATION
- [Pattern] LANDSCAPED AREA
- [Pattern] INFILTRATION TRENCH
- EXIST. TOP OF SLOPE
- EXIST. BOTTOM OF SLOPE
- PROP. TOP OF SLOPE
- PROP. BOTTOM OF SLOPE
- FLOW DIRECTION
- SWALE FLOW LINE
- GRADE BREAK
- 3.8% SLOPE
- CURB BREAK OR CONC. HEADER
- EXPANDED METAL FENCE
- ROOF OVERHANG

NOTES:

1. FOR LANDSCAPE AND IRRIGATIONS PLANS, SEE LANDSCAPE DRAWINGS.
2. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IN ALL DIRECTIONS.



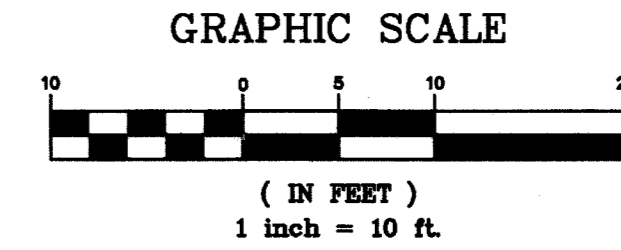
**GRADING AND DRAINAGE PLAN - 2**  
SCALE: 1"=10'

| REVISION NO. | SYM. | DESCRIPTION | SHT/OF | DATE | APPROVED |
|--------------|------|-------------|--------|------|----------|
|              |      |             |        |      |          |

|                                            |                      |                                                                                     |                   |
|--------------------------------------------|----------------------|-------------------------------------------------------------------------------------|-------------------|
|                                            |                      | STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION |                   |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII |                      | GRADING AND DRAINAGE PLAN - 2                                                       |                   |
| DESIGNED: CJ                               | SUBMITTED: <i>gc</i> | DATE: 03/15/2016                                                                    | SCALE: 1" = 10'   |
| DRAWN: CK                                  | CHECKED: YT          | APPROVED: <i>Cyly</i>                                                               | DRAWING NO. C4.01 |
| EXP. DATE: 04/30/2016                      |                      | MAR 23 2016                                                                         |                   |

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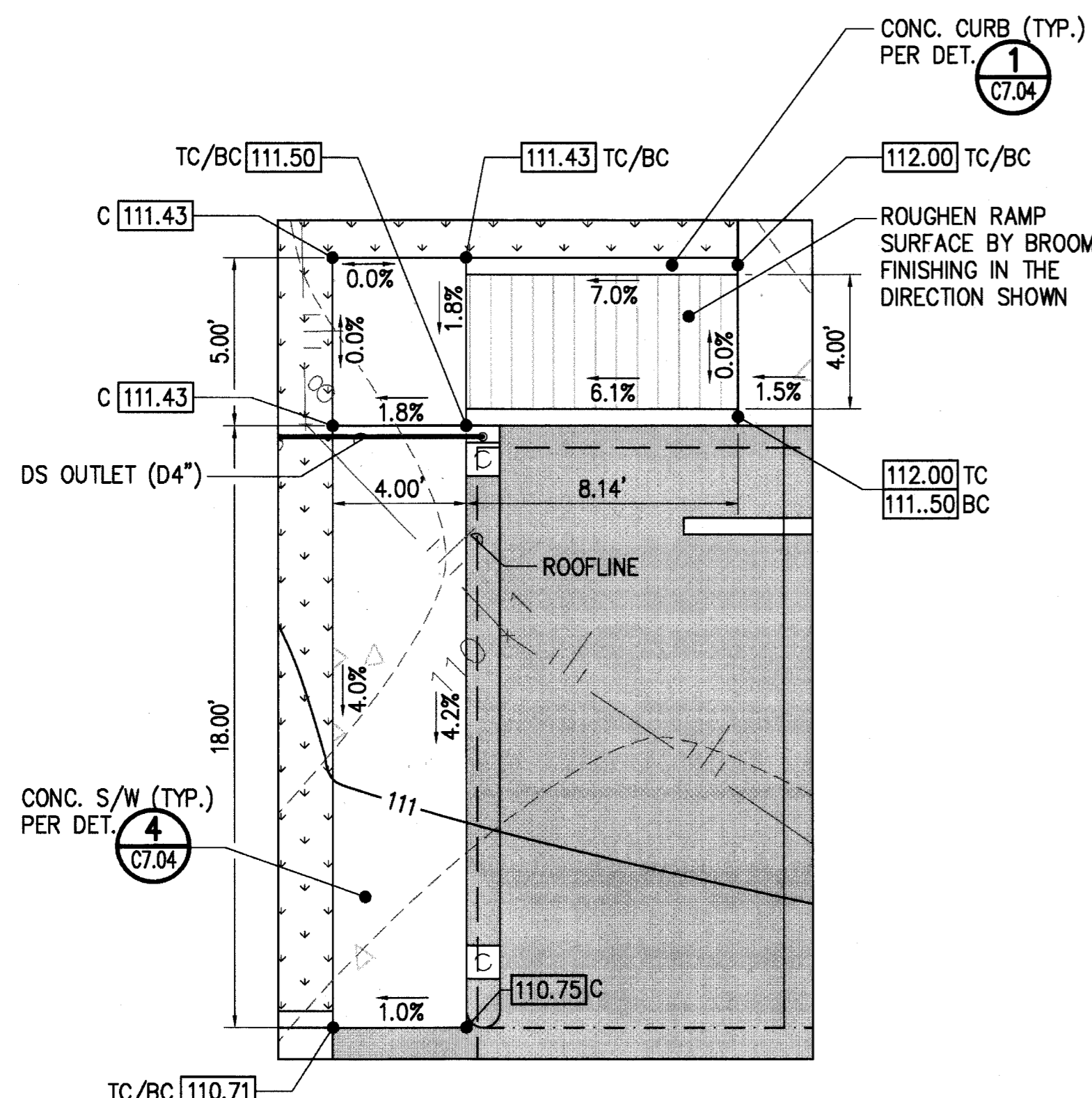


**LEGEND:**

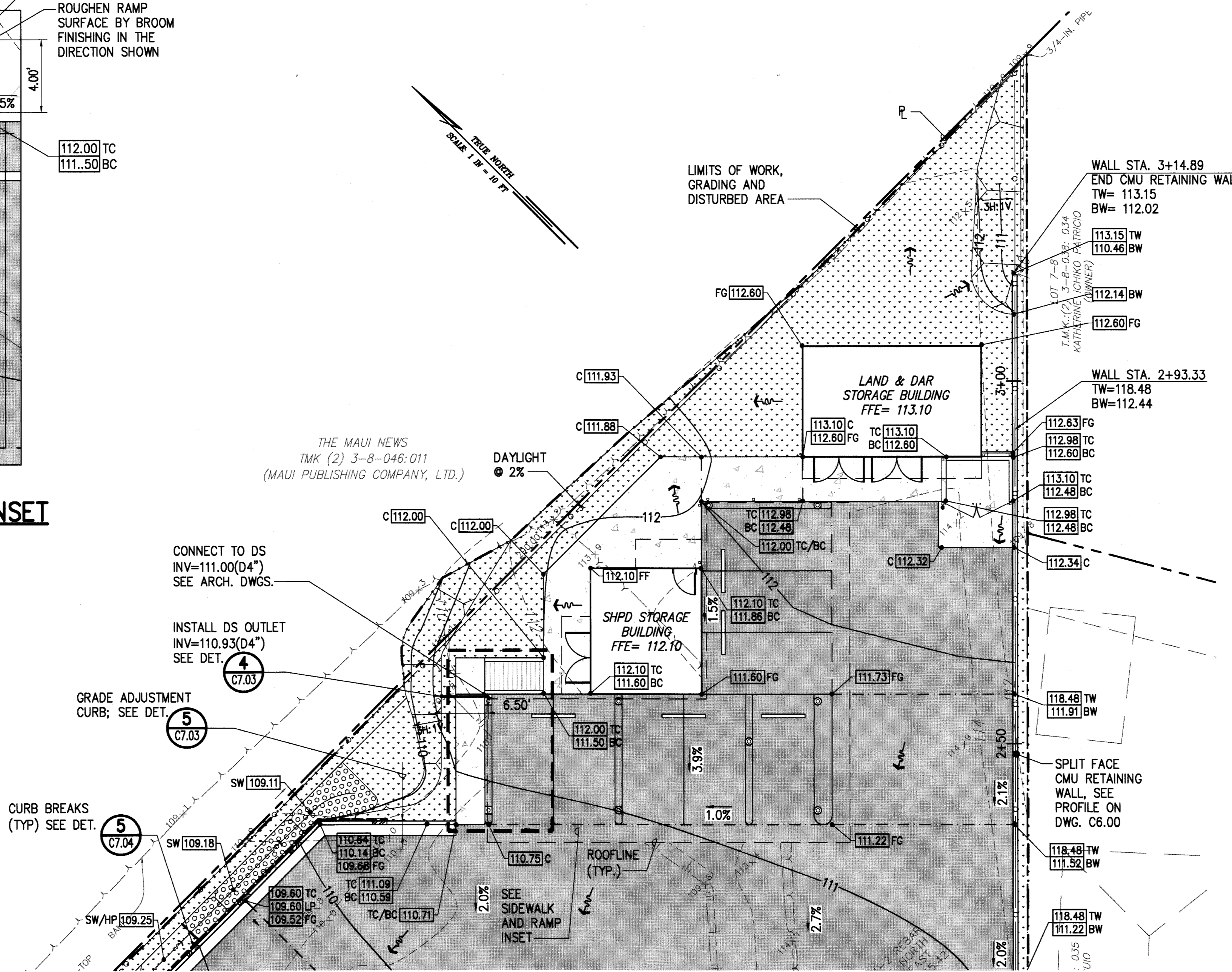
- PROPERTY LINE
- - - - - LIMITS OF WORK, GRADING AND DISTURBED AREA
- 110— PROP. GRADE CONTOUR
- - - - -110- - - - - EXIST. CONTOUR
- [112.57] PROP. SPOT ELEVATION
- 108x5 EXIST. SPOT ELEVATION
- [Pattern] LANDSCAPED AREA
- EXIST. TOP OF SLOPE
- EXIST. BOTTOM OF SLOPE
- PROP. TOP OF SLOPE
- PROP. BOTTOM OF SLOPE
- FLOW DIRECTION
- SWALE FLOW LINE
- - - - - GRADE BREAK
- 3.8% SLOPE
- [Pattern] CURB BREAK OR CONC. HEADER
- EXPANDED METAL FENCE
- - - - - ROOF OVERHANG

**NOTE:**

1. FOR LANDSCAPE AND IRRIGATION PLANS, SEE LANDSCAPE DRAWINGS.
2. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IN ALL DIRECTIONS.



**SIDEWALK AND RAMP INSET**  
SCALE: 1/4" = 1'-0"



**GRADING AND DRAINAGE PLAN - 3**  
SCALE: 1"=10'

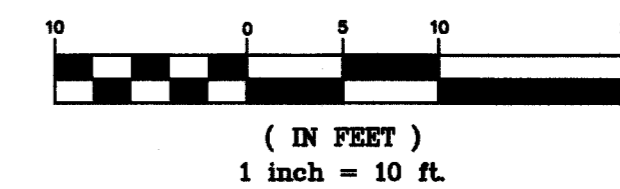
(FOR CONTINUATION SEE DRAWING CA.01)

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| REVISION NO.                                                                                                                                                                      | SYM. | DESCRIPTION          | SHT./OF                  | DATE | APPROVED                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------|--------------------------|------|-----------------------------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION<br><br><b>MAUI OFFICE ANNEX</b><br>WAILUKU, MAUI, HAWAII<br><br>GRADING AND DRAINAGE PLAN - 3 |      |                      |                          |      |                             |
| DESIGNED: CJ                                                                                                                                                                      |      | SUBMITTED: <i>ck</i> |                          |      |                             |
| DRAWN: CK                                                                                                                                                                         |      | DATE: 03/15/2016     |                          |      |                             |
| CHECKED: YT                                                                                                                                                                       |      | SCALE: AS SHOWN      |                          |      |                             |
| APPROVED: <i>Cyly</i><br>CHIEF ENGINEER                                                                                                                                           |      |                      | DATE: <b>MAR 23 2016</b> |      | DRAWING NO.<br><b>C4.02</b> |

(FOR CONTINUATION SEE DRAWING C5.01)

GRAPHIC SCALE



**LEGEND:**

- PROPERTY LINE
- - - BUILDING SETBACK LINE
- W2" NEW WATERLINE
- [Pattern] LANDSCAPED AREA (SEE LANDSCAPE DWGS)
- [Pattern] NEW AC PAVEMENT
- [Pattern] NEW CONCRETE PAVEMENT
- - - - - EXIST. TOP OF SLOPE
- - - - - EXIST. BOTTOM OF SLOPE
- x - x - EXIST. WIRE FENCE
- o - - - - - NEW EXPANDED METAL FENCE
- - - - - ROOF OVERHANG
- ⊙ S5 GENERAL LOCATION OF SETTLEMENT MONITORING STATION AND NO.

**NOTES:**

1. FOR OFFSITE UTILITIES SEE DWG. C2.00.
2. FOR DRAINAGE SYSTEM INFORMATION SEE DWG. C4.00.
3. FOR LANDSCAPING, SEE LANDSCAPE PLANS.
4. SEE BUILDING TIE DOWN DWG C5.01.

| CURVE DATA |            |           |       |       |       |       |
|------------|------------|-----------|-------|-------|-------|-------|
| CURVE      | Δ          | Δ/2       | R     | T     | C     | Lc    |
| 1          | 87°09'42"  | 43°34'51" | 2.00  | 1.90  | 2.76  | 3.04  |
| 2          | 100°40'46" | 50°20'23" | 2.00  | 2.41  | 3.08  | 3.51  |
| 3          | 79°19'14"  | 39°39'37" | 10.00 | 8.29  | 12.76 | 13.84 |
| 4          | 45°00'00"  | 22°30'00" | 30.00 | 12.43 | 22.96 | 23.56 |
| 5          | 150°06'08" | 75°03'04" | 2.03  | 7.60  | 3.92  | 5.31  |
| 6          | 90°00'00"  | 45°00'00" | 2.50  | 2.50  | 3.54  | 3.93  |
| 8          | 17°31'10"  | 8°45'35"  | 55.00 | 8.47  | 16.75 | 16.82 |
| 9          | 20°47'52"  | 10°23'56" | 35.00 | 6.42  | 12.63 | 12.70 |
| 10         | 4°33'40"   | 2°16'50"  | 55.00 | 2.19  | 4.38  | 4.38  |
| 11         | 5°55'43"   | 2°57'51"  | 35.00 | 1.81  | 3.62  | 3.62  |
| 12         | 6°22'08"   | 3°11'04"  | 55.00 | 3.06  | 6.11  | 6.11  |

**SITE AND UTILITY PLAN - 1**  
SCALE: 1"=10'

| REVISION NO. | SYM. | DESCRIPTION | SHT./OF | DATE | APPROVED |
|--------------|------|-------------|---------|------|----------|
|              |      |             |         |      |          |

04/30/2016  
EXP. DATE

*[Signature]*  
CHIEF ENGINEER

STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
ENGINEERING DIVISION

**MAUI OFFICE ANNEX**  
WAILUKU, MAUI, HAWAII

SITE AND UTILITY PLAN - 1

DESIGNED: YT      SUBMITTED: *ge*

DRAWN: KS        DATE: 03/15/2016

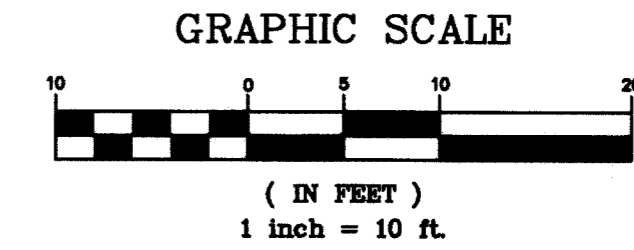
CHECKED: YT     SCALE: 1" = 10'

APPROVED: *[Signature]*      DRAWING NO. **C5.00**

MAR 23 2016      DATE

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| CURVE DATA |            |           |       |          |       |       |
|------------|------------|-----------|-------|----------|-------|-------|
| CURVE      | Δ          | Δ/2       | R     | T        | C     | Lc    |
| 13         | 90°00'00"  | 45°00'00" | 20.00 | 20.00    | 28.28 | 31.42 |
| 14         | 90°00'00"  | 45°00'00" | 20.00 | 20.00    | 28.28 | 31.42 |
| 15         | 134°59'57" | 67°29'58" | 0.79  | 1.91     | 1.47  | 1.87  |
| 16         | 180°00'00" | 90°00'00" | 2.31  | INFINITY | 4.62  | 7.25  |



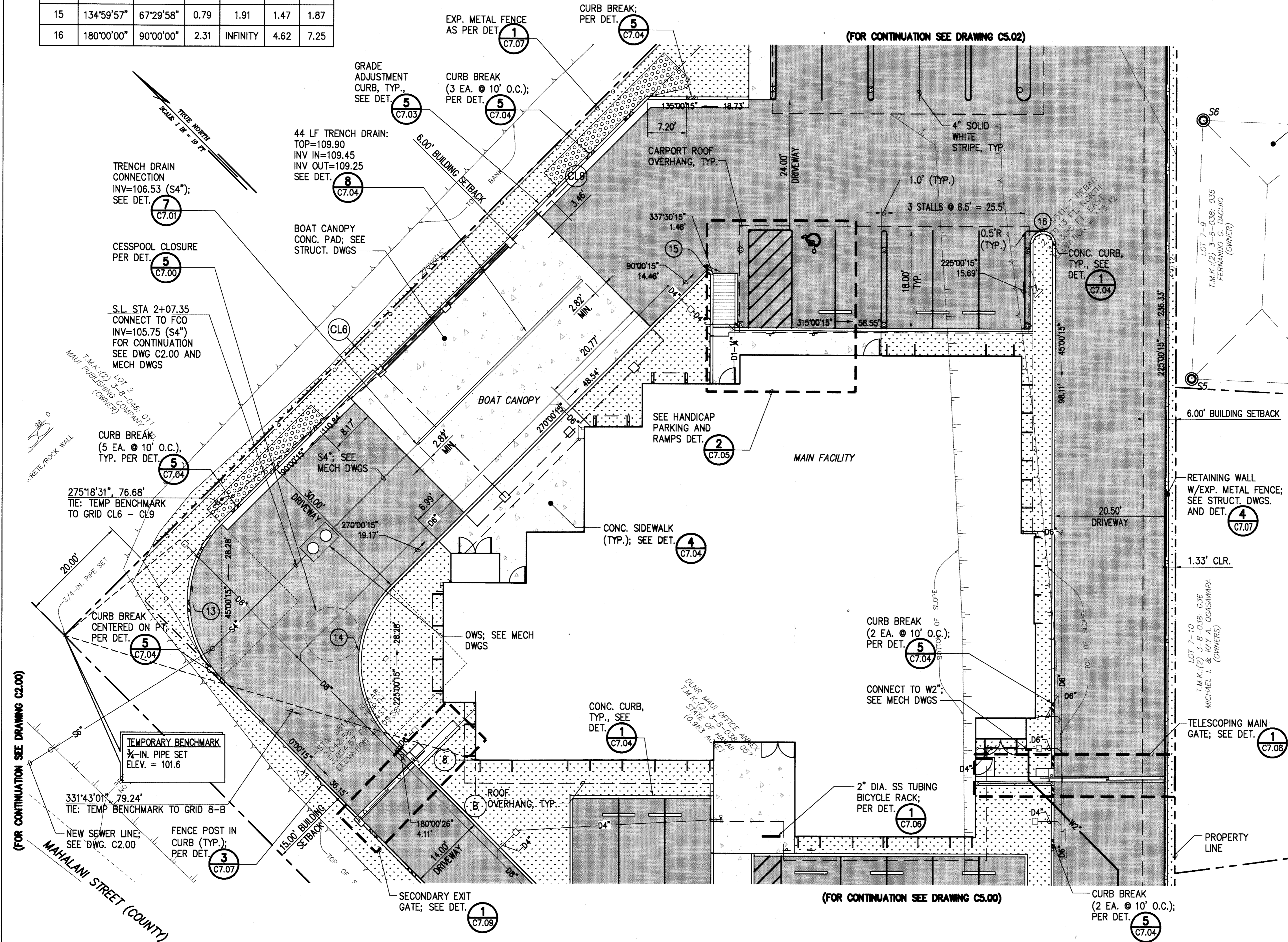
LEGEND:

- PROPERTY LINE
- BUILDING SETBACK LINE
- S6" NEW SEWER LINE
- [Pattern] LANDSCAPED AREA (SEE LANDSCAPE DWGS)
- [Pattern] INFILTRATION TRENCH
- [Pattern] NEW AC PAVEMENT
- [Pattern] NEW CONCRETE PAVEMENT
- NEW EXPANDED METAL FENCE
- ROOF OVERHANG
- EXIST. TOP OF SLOPE
- EXIST. BOTTOM OF SLOPE

NOTES:

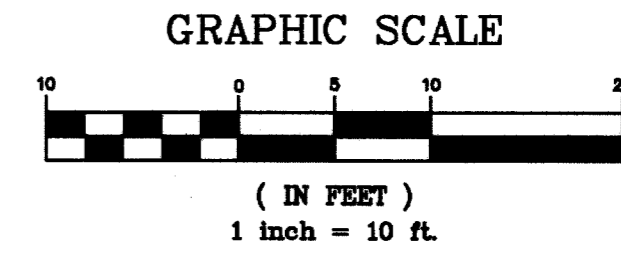
1. FOR OFFSITE UTILITIES SEE DWG. C2.00.
2. FOR DRAINAGE SYSTEM INFORMATION SEE DWG. C4.01.
3. FOR LANDSCAPING, SEE LANDSCAPE PLANS.

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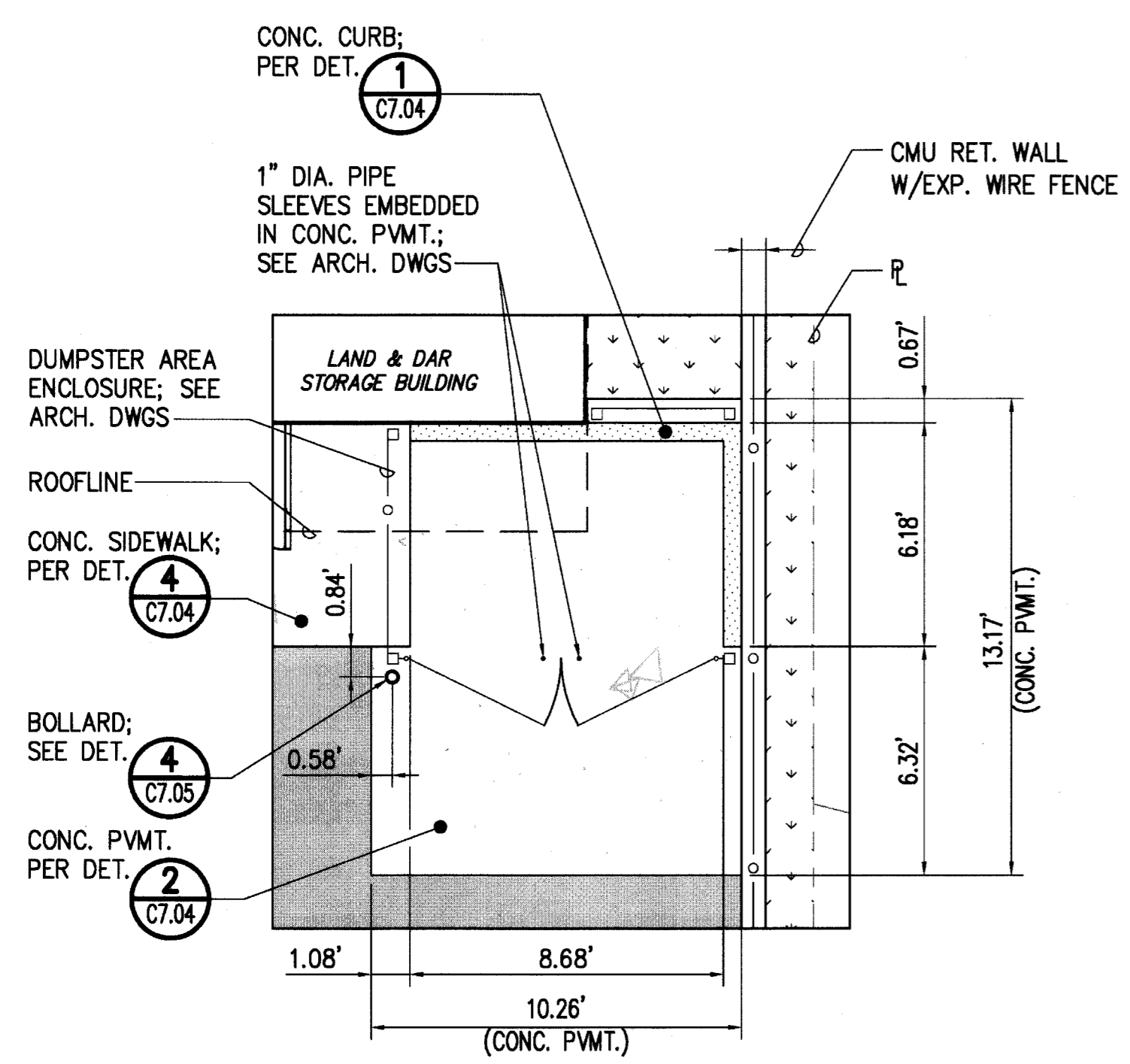
| REVISION NO.                                                                        | SYM. | DESCRIPTION | SHT./OF           | DATE   | APPROVED          |
|-------------------------------------------------------------------------------------|------|-------------|-------------------|--------|-------------------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION |      |             |                   |        |                   |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                          |      |             |                   |        |                   |
| SITE AND UTILITY PLAN - 2                                                           |      |             |                   |        |                   |
| DESIGNED:                                                                           | YT   | SUBMITTED:  | cc                | DATE:  | 03/15/2016        |
| DRAWN:                                                                              | KS   | CHECKED:    | YT                | SCALE: | 1" = 10'          |
| APPROVED: <i>[Signature]</i><br>CHIEF ENGINEER                                      |      |             | DATE: MAR 23 2016 |        | DRAWING NO. C5.01 |

**SITE AND UTILITY PLAN - 2**  
SCALE: 1"=10'

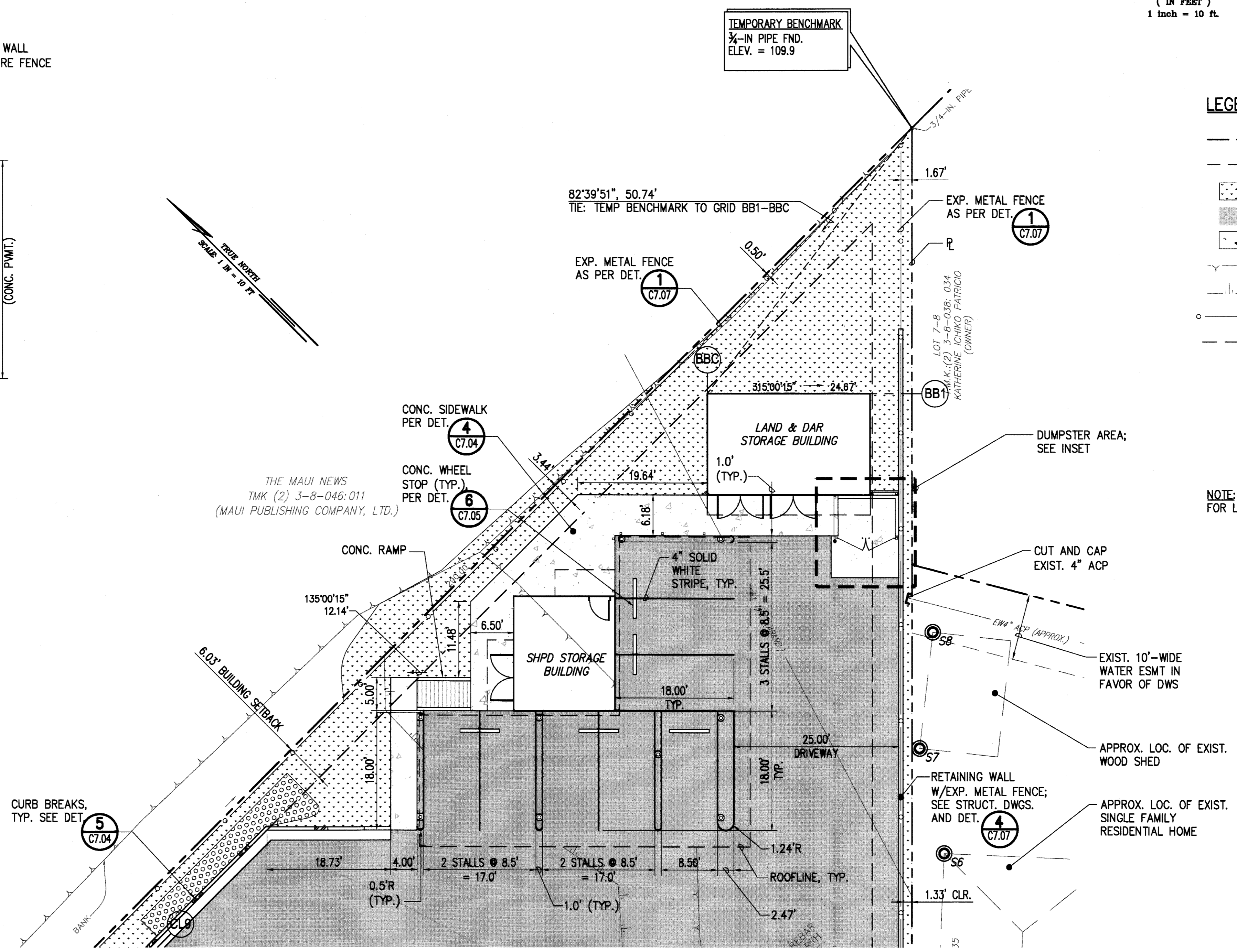


- LEGEND:**
- PROPERTY LINE
  - - - BUILDING SETBACK LINE
  - [Pattern] LANDSCAPED AREA (SEE LANDSCAPE DWGS)
  - [Pattern] NEW AC PAVEMENT
  - [Pattern] NEW CONCRETE PAVEMENT
  - - - - - EXIST. TOP OF SLOPE
  - - - - - EXIST. BOTTOM OF SLOPE
  - EXPANDED METAL FENCE
  - - - - - ROOF OVERHANG
  - ⊙ S5 GENERAL LOCATION OF SETTLEMENT MONITORING STATION AND NO.

NOTE:  
 FOR LANDSCAPING, SEE LANDSCAPE PLANS.



**INSET OF DUMPSTER AREA**  
 SCALE: 1/4" = 1'-0"



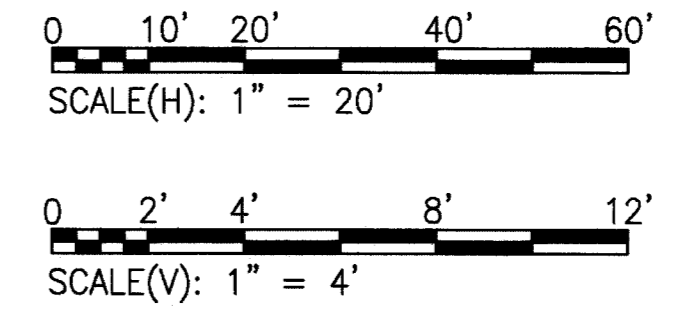
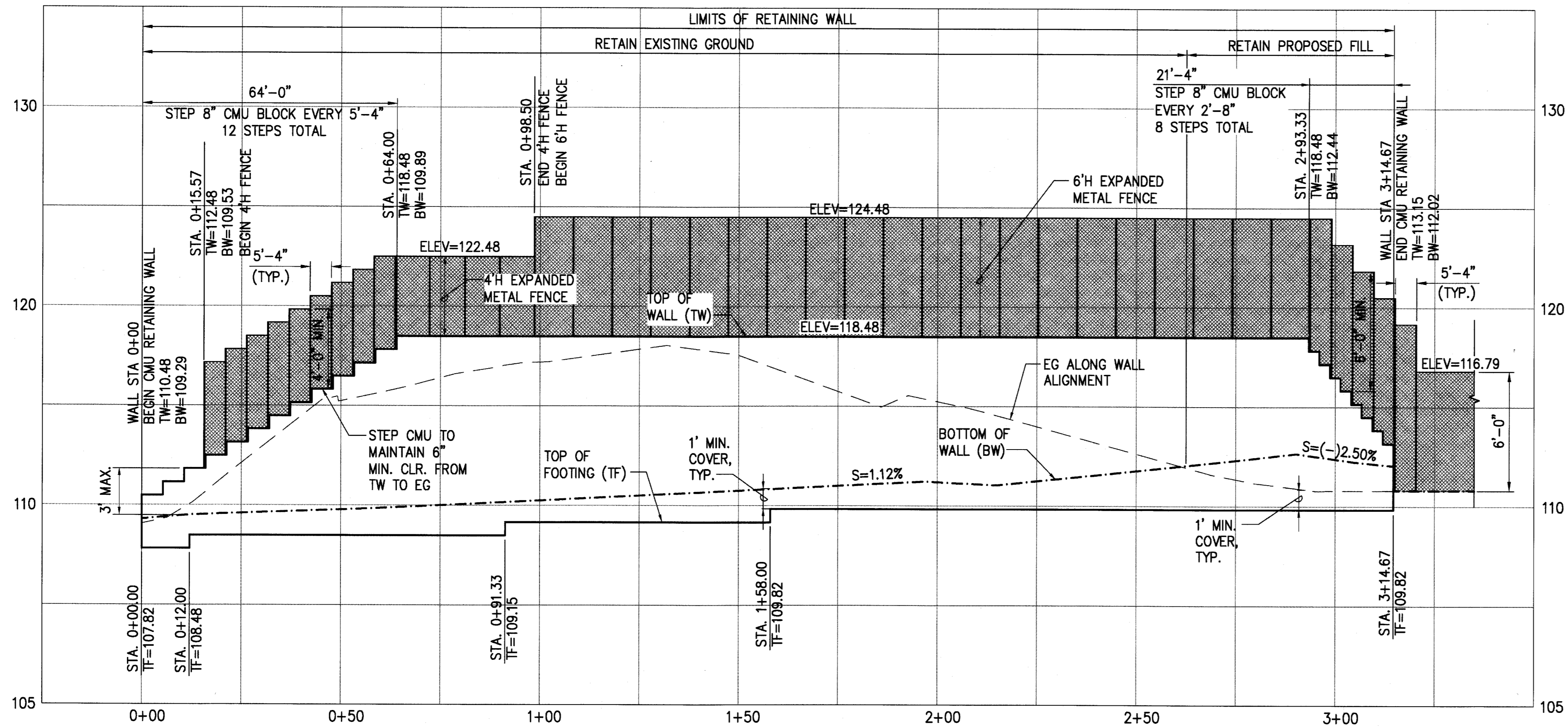
(FOR CONTINUATION SEE DRAWING C5.01)

**SITE AND UTILITY PLAN - 3**  
 SCALE: 1"=10'

| REVISION NO.                                                                        | SYM. | DESCRIPTION            | SHT./OF           | DATE | APPROVED          |
|-------------------------------------------------------------------------------------|------|------------------------|-------------------|------|-------------------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION |      |                        |                   |      |                   |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                          |      |                        |                   |      |                   |
| SITE AND UTILITY PLAN - 3                                                           |      |                        |                   |      |                   |
| DESIGNED: YT                                                                        |      | SUBMITTED: [Signature] |                   |      |                   |
| DRAWN: KS                                                                           |      | DATE: 03/15/2016       |                   |      |                   |
| CHECKED: YT                                                                         |      | SCALE: AS SHOWN        |                   |      |                   |
| APPROVED: [Signature]<br>CHIEF ENGINEER                                             |      |                        | DATE: MAR 23 2016 |      | DRAWING NO. C5.02 |

L:\PROJECTS\63 - DLNR\16304 - Maui Admin Bldg\DESIGN\DRAWING\SITE PLAN-3.dwg - 2/18/2016 12:50 PM



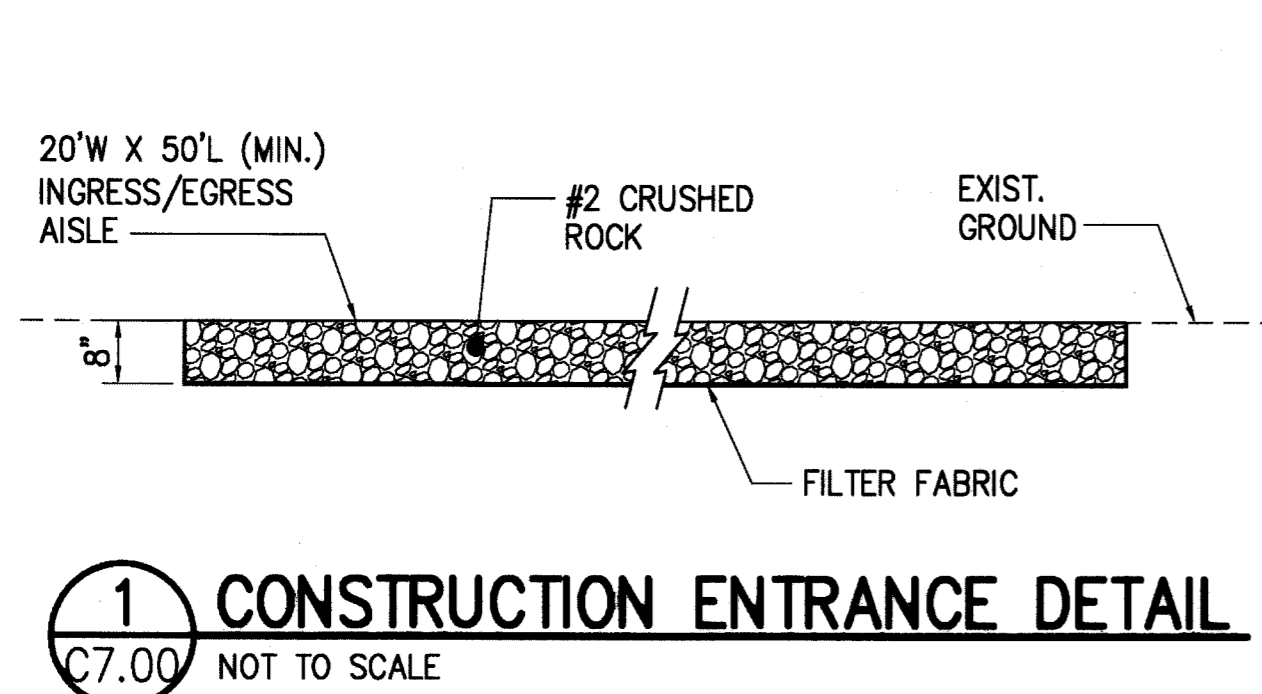


- NOTES:**
1. FOR RETAINING WALL PLAN, SEE GRADING AND DRAINAGE PLANS, C4.00 TO C4.02.
  2. FOR EXPANDED METAL FENCE, SEE DET. 1  
C7.07
  3. FOR CMU WALL SEE STRUCTURAL DWGS.

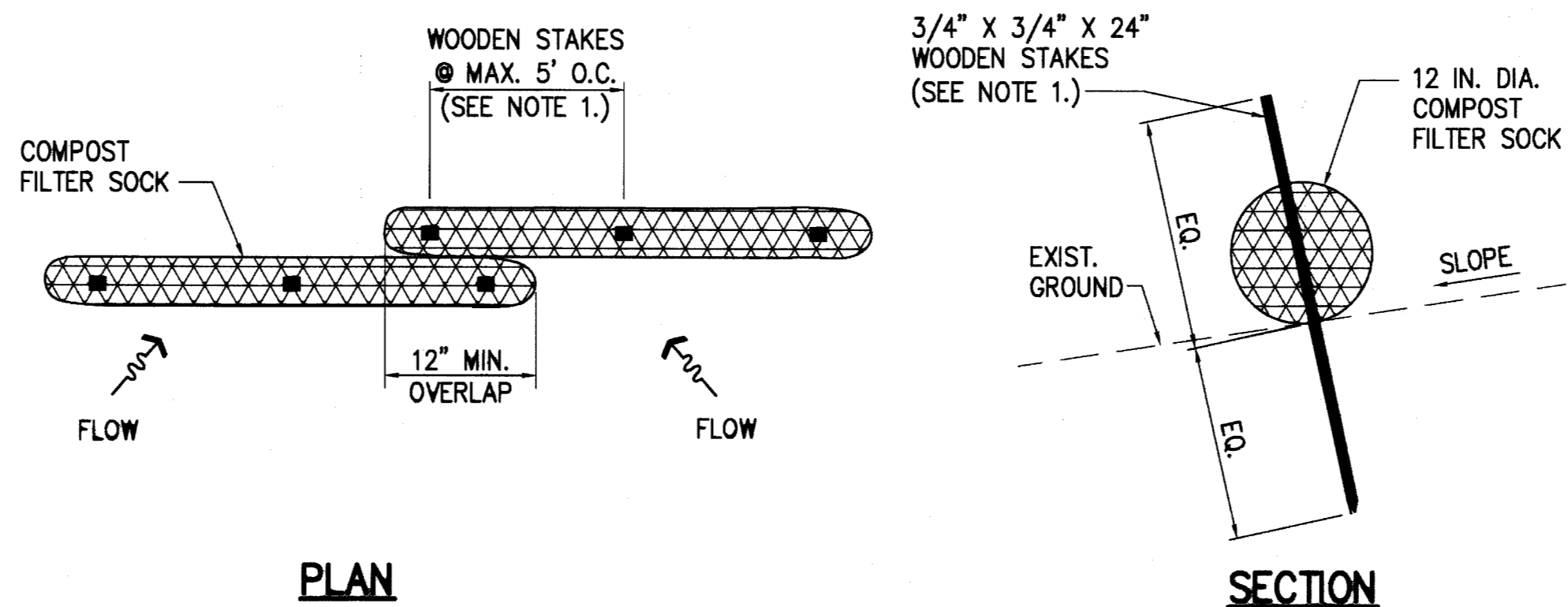
**PROFILE- RETAINING WALL**  
 SCALE: HORIZ. 1"=20'  
 VERT. 1"=4'

L:\1. PROJECTS\63 - DLNR\16304 - Maui Admin Bldg DESIGN\DRAWING\RETAIN WALL PROFILE.dwg - 2/4/2016 4:27 PM

| REVISION NO.                                                                                                                                           | SYM. | DESCRIPTION                     | SHT./OF    | DATE                                                      | APPROVED |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------|------------|-----------------------------------------------------------|----------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION                                                                    |      |                                 |            |                                                           |          |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                                                                                             |      |                                 |            |                                                           |          |
| RETAINING WALL PROFILE                                                                                                                                 |      |                                 |            |                                                           |          |
| DESIGNED:                                                                                                                                              | CJ   | SUBMITTED:                      | gc         |                                                           |          |
| DRAWN:                                                                                                                                                 | CK   | DATE:                           | 03/15/2016 |                                                           |          |
| CHECKED:                                                                                                                                               | YT   | SCALE:                          | AS SHOWN   |                                                           |          |
| <br>EXP. DATE<br>04/30/2016<br><br>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. |      | APPROVED:<br><br>CHIEF ENGINEER |            | DRAWING NO.<br><b>C6.00</b><br>DATE<br><b>MAR 23 2016</b> |          |

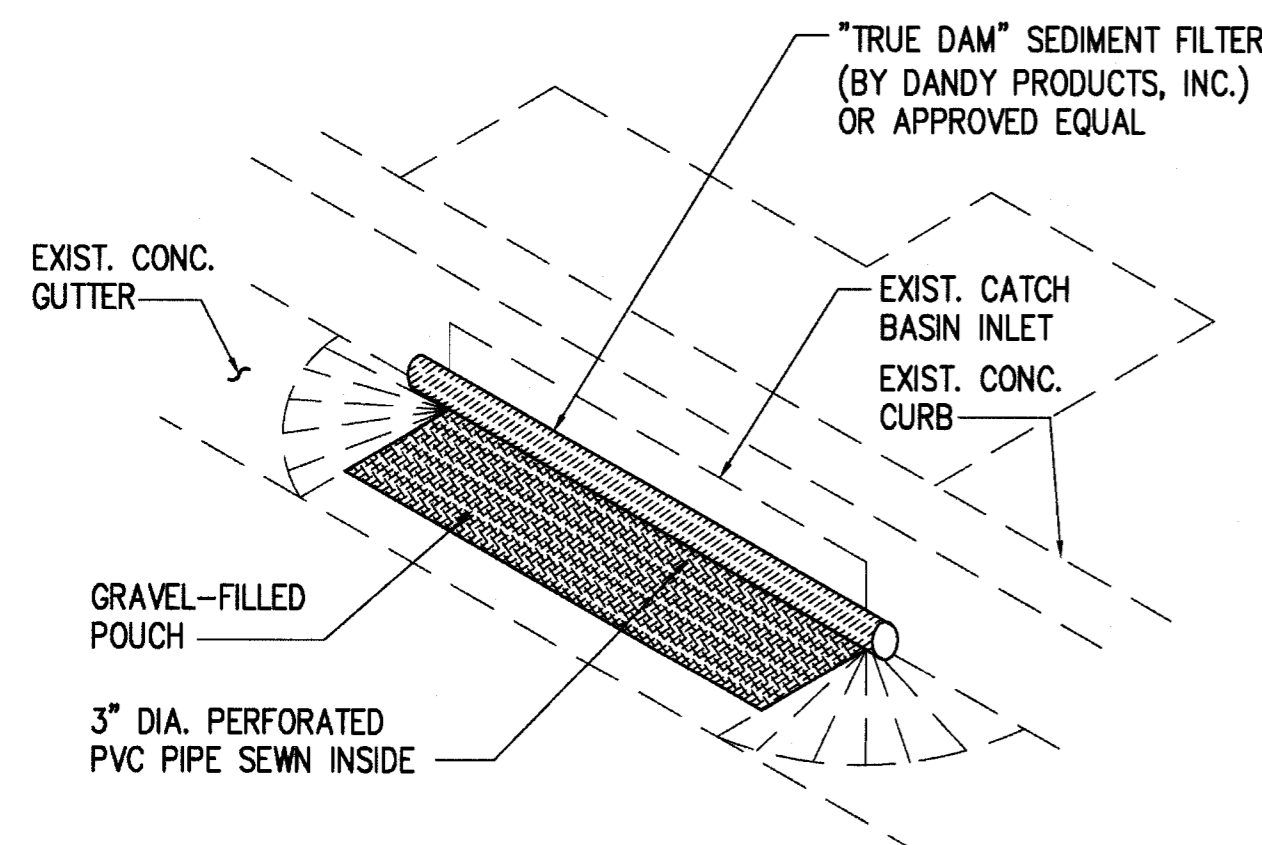


**1 CONSTRUCTION ENTRANCE DETAIL**  
C7.00 NOT TO SCALE



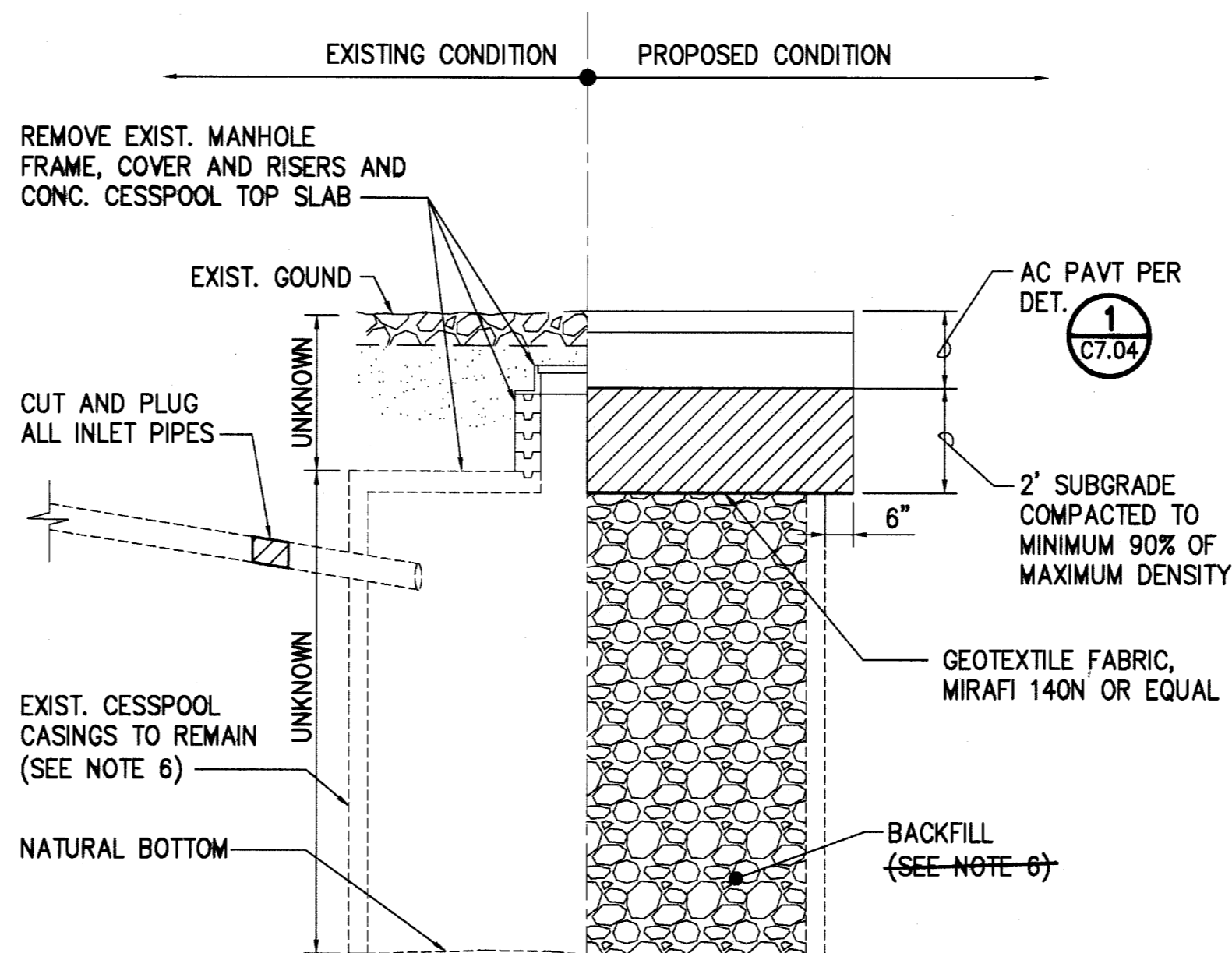
**2 FILTER SOCK DETAIL**  
C7.00 SCALE: NOT TO SCALE

- NOTE:
- WOODEN STAKES SHALL ONLY BE REQUIRED IF SLOPE IS EQUAL TO OR GREATER THAN 4H:1V AS SHOWN ON THE PLANS.
  - FILTER SOCK SHALL BE MANUFACTURED BY ENVIROTECH BIOSOLUTIONS, OR APPROVED EQUAL, AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
  - COMPOST SHALL NOT CONTAIN BIOSOLIDS AND SHOULD BE CONSISTENT WITH EPA GUIDELINES.



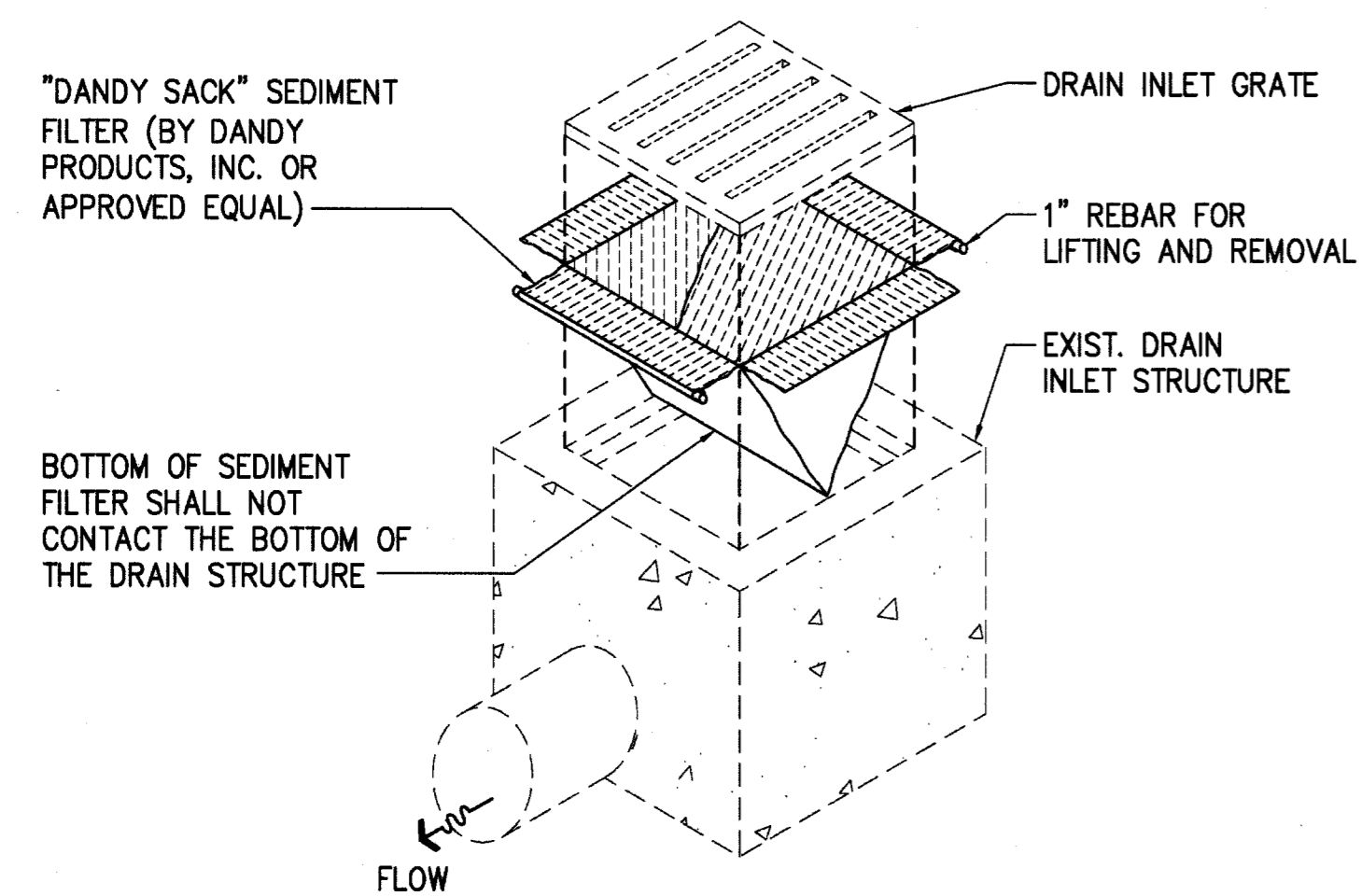
**3 CATCH BASIN PROTECTION DETAIL**  
C7.00 NOT TO SCALE

- CATCH BASIN PROTECTION NOTES:**
- CONTRACTOR SHALL INSTALL SEDIMENT FILTER DEVICES AT CATCH BASIN(S) INDICATED TO PREVENT SOIL OR DEBRIS IN ANY FORM FROM ENTERING THE DRAINAGE SYSTEM.
  - ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY.
  - CATCH BASIN PROTECTION DEVICES SHALL BE REMOVED DURING PERIODS OF ABOVE NORMAL RAINFALL THEN REPLACED AFTER THE EVENT HAS PASSED.
  - AT THE END OF THE PROJECT, EXISTING CATCH BASINS ADJACENT TO THE PROJECT SHALL BE INSPECTED AND ANY ACCUMULATED SEDIMENT AND DEBRIS FOUND IN THE CATCH BASINS SHALL BE REMOVED. FLUSHING INTO THE CATCH BASINS IS PROHIBITED.



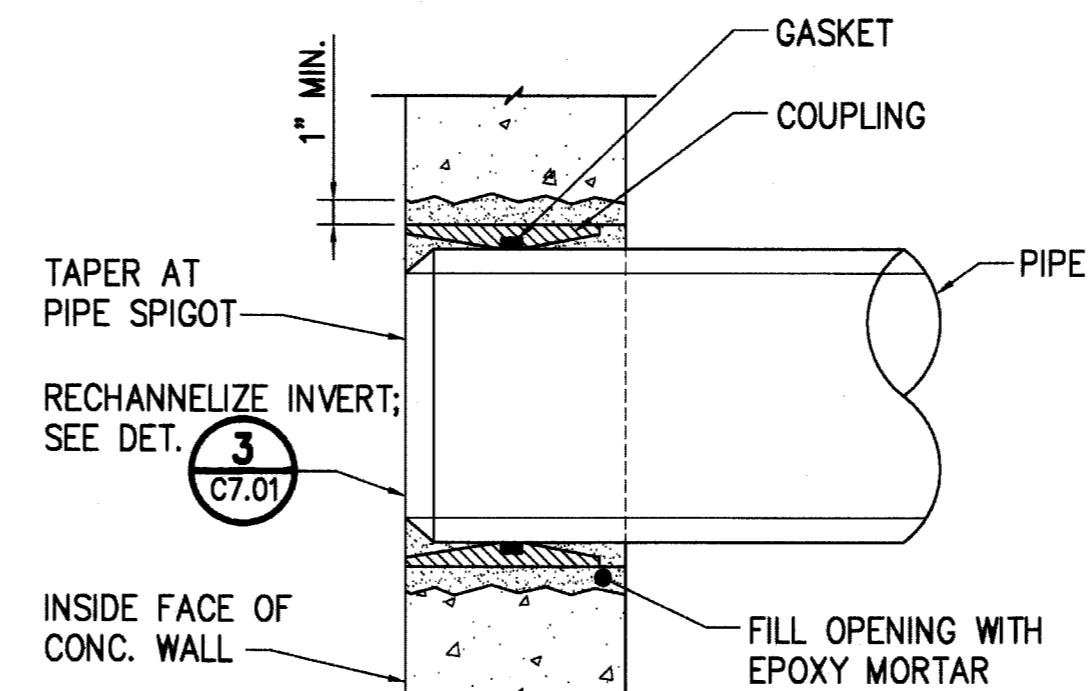
**5 CESSPOOL CLOSURE DETAIL**  
C7.00 SCALE: NOT TO SCALE

- CESSPOOL ABANDONMENT/BACKFILLING NOTES:**
- CUT OR PERMANENTLY SEAL ANY PIPING LEADING TO THE CESSPOOL.
  - CONTRACTOR SHALL REMOVE THE CONCRETE SLAB WELL COVER INCLUDING THE OVERLYING MANHOLE COVER, BRICKS, AND SOIL MATERIAL TO EXPOSE THE CESSPOOL AND ALL IMPEDIMENTS TO ALLOW FOR THE CLEANING AND COMPLETE BACKFILLING OF THE CESSPOOL.
  - ALL ACCUMULATED SEDIMENTS, SLUDGE, DEBRIS, AND ORGANIC MATTER SHALL BE REMOVED UNTIL NATURAL GROUND IS EXPOSED AT THE BOTTOM OF THE CESSPOOLS. USE A RIGID POLE OR ROD TO PROBE THAT THE NATURAL BOTTOM IS ACHIEVED. THE CESSPOOLS MUST BE CLEARED TO THEIR ORIGINAL EXCAVATED DEPTH BEFORE BACKFILLING COMMENCES. THE CLEARED DEPTHS SHALL BE FIELD VERIFIED AND RECORDED. CLEARING OF THE CESSPOOLS SHALL BE PERFORMED AT LEAST ONE DAY PRIOR TO ANY BACKFILLING.
  - ALL SEDIMENTS AND SLUDGE REMOVED SHALL BE DISPOSED OF AT A MUNICIPAL WASTEWATER TREATMENT PLANT WHICH ACCEPTS SUCH MATERIALS.
  - THE CONTRACTOR SHALL BE HELD RESPONSIBLE TO ENSURE NO LIQUIDS OR SOLIDS FROM THE CESSPOOL ARE DISCHARGED INTO THE GROUND (HAR, SECTION 11-62-06(G)).
  - DEMOLISH & REMOVE EXIST. CESSPOOL RINGS TO PROVIDE 4\"/>



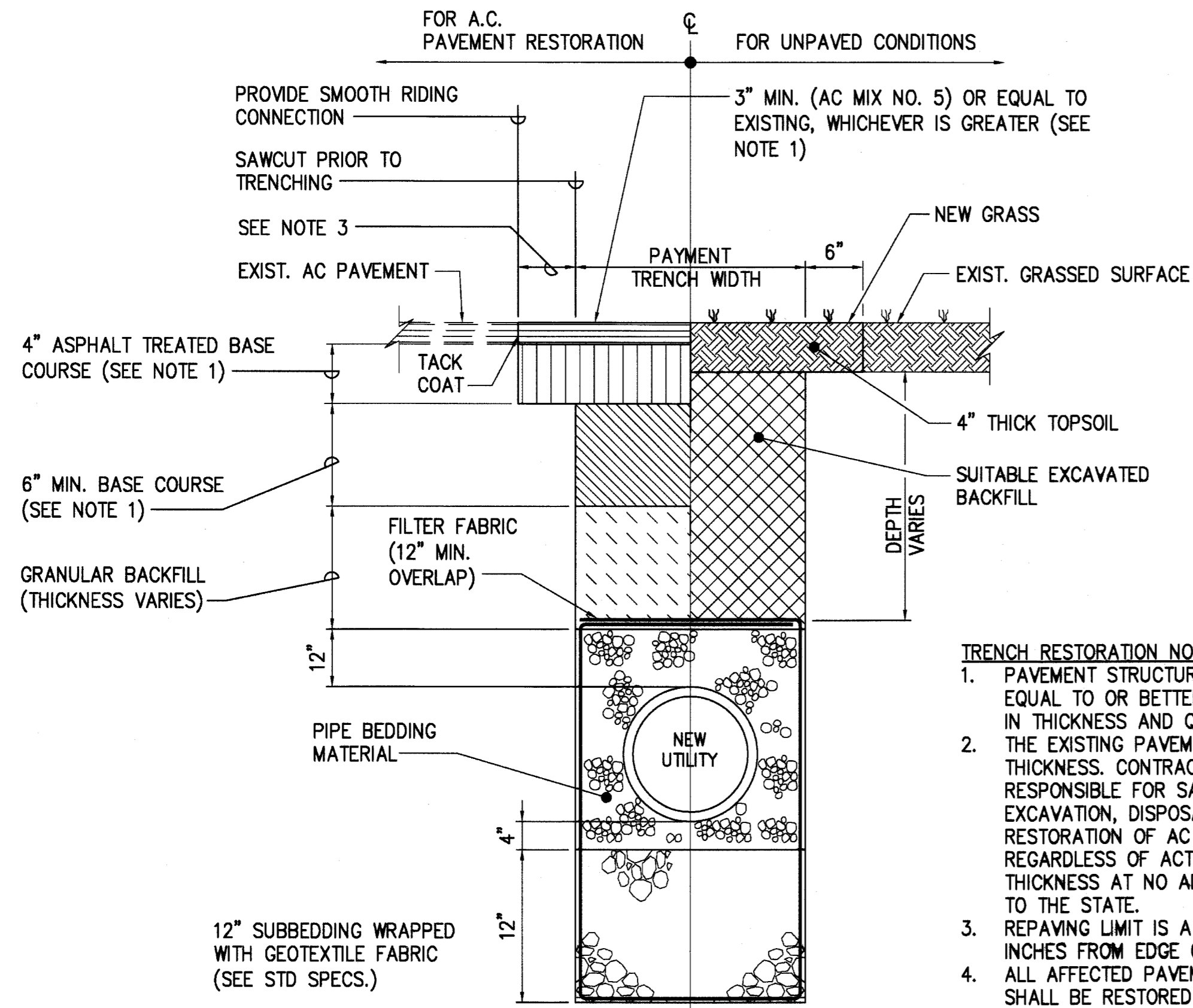
**4 DRAIN INLET PROTECTION DETAIL**  
C7.00 NOT TO SCALE

- DRAIN INLET PROTECTION NOTES:**
- INSTALL DRAIN INLET PROTECTION AT EXISTING DRAIN INLETS IN AND ADJACENT TO THE PROJECT AREA PRIOR TO THE START OF WORK AND AT ALL NEW DRAIN INLETS AFTER SUCH ARE CONSTRUCTED TO PREVENT SOIL OR DEBRIS IN ANY FORM FROM ENTERING THE DRAINAGE SYSTEM.
  - ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY.
  - DRAIN INLET PROTECTION DEVICES SHALL BE REMOVED DURING PERIODS OF ABOVE NORMAL RAINFALL THEN REPLACED AFTER THE EVENT HAS PASSED.
  - AT THE END OF THE PROJECT, EXISTING DRAIN INLETS ADJACENT TO THE PROJECT SHALL BE INSPECTED AND ANY ACCUMULATED SEDIMENT AND DEBRIS FOUND IN THE DRAIN INLETS SHALL BE REMOVED. FLUSHING INTO THE DRAINAGE SYSTEM IS PROHIBITED.



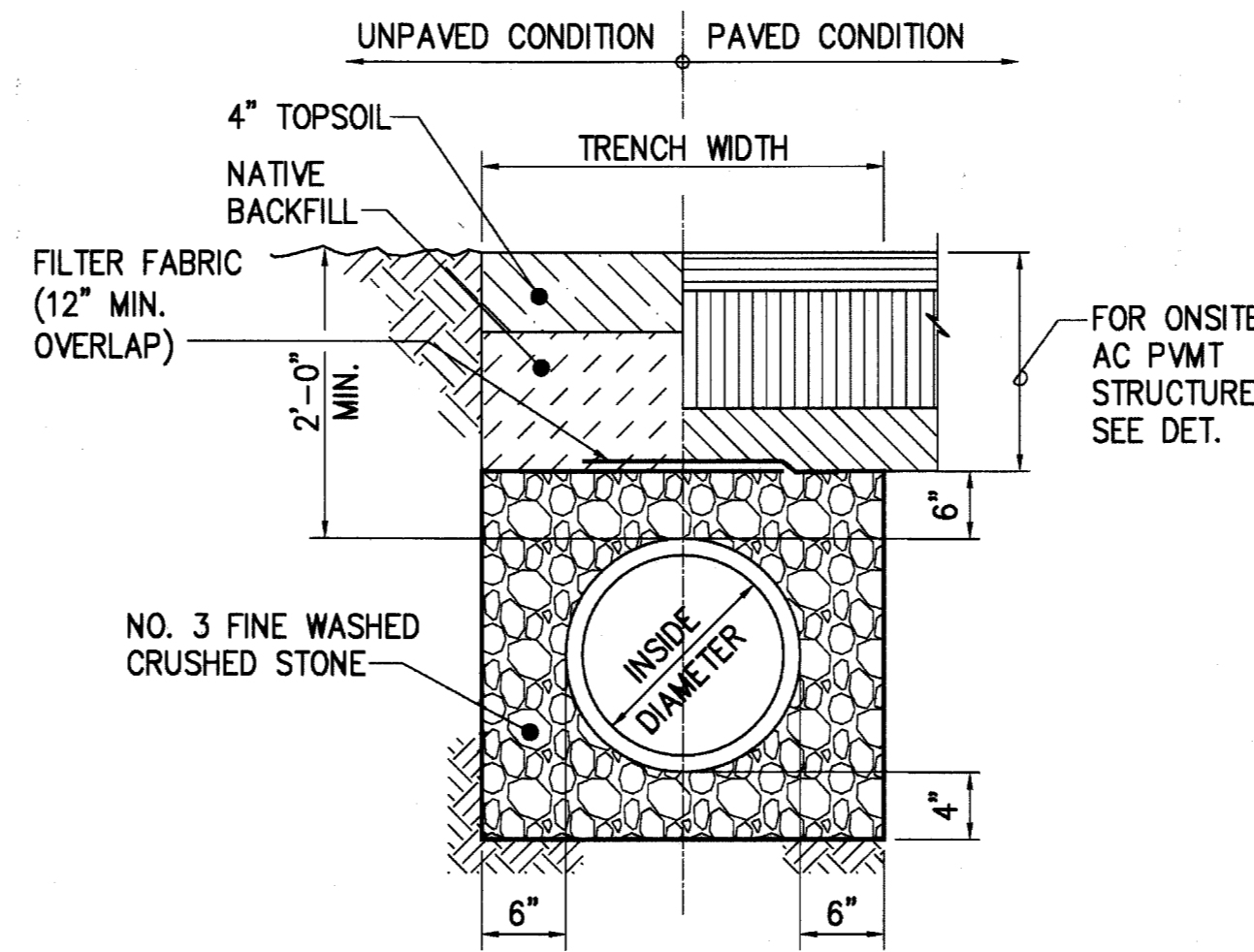
**6 EXIST. SMH PENETRATION DETAIL**  
C7.00 SCALE: NOT TO SCALE

| REVISION NO.                                                                           | SYM. | DESCRIPTION                                                      | SHT./OF    | DATE                                         | APPROVED |
|----------------------------------------------------------------------------------------|------|------------------------------------------------------------------|------------|----------------------------------------------|----------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION    |      |                                                                  |            |                                              |          |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                             |      |                                                                  |            |                                              |          |
| DETAILS - 1                                                                            |      |                                                                  |            |                                              |          |
| DESIGNED:                                                                              | YT   | SUBMITTED:                                                       |            |                                              |          |
| DRAWN:                                                                                 | YT   | DATE:                                                            | 03/15/2016 |                                              |          |
| CHECKED:                                                                               | YT   | SCALE:                                                           | AS SHOWN   |                                              |          |
| APPROVED:                                                                              |      | DATE:                                                            |            | DRAWING NO.                                  |          |
| <br>YVONNE M. TURRO<br>LICENSED PROFESSIONAL ENGINEER<br>No. 11144-C<br>HAWAII, U.S.A. |      | 04/30/2016<br>EXP. DATE<br><br>Yvonne M. Turro<br>CHIEF ENGINEER |            | MAR-2-3-2016<br>DATE<br>C7.00<br>DRAWING NO. |          |

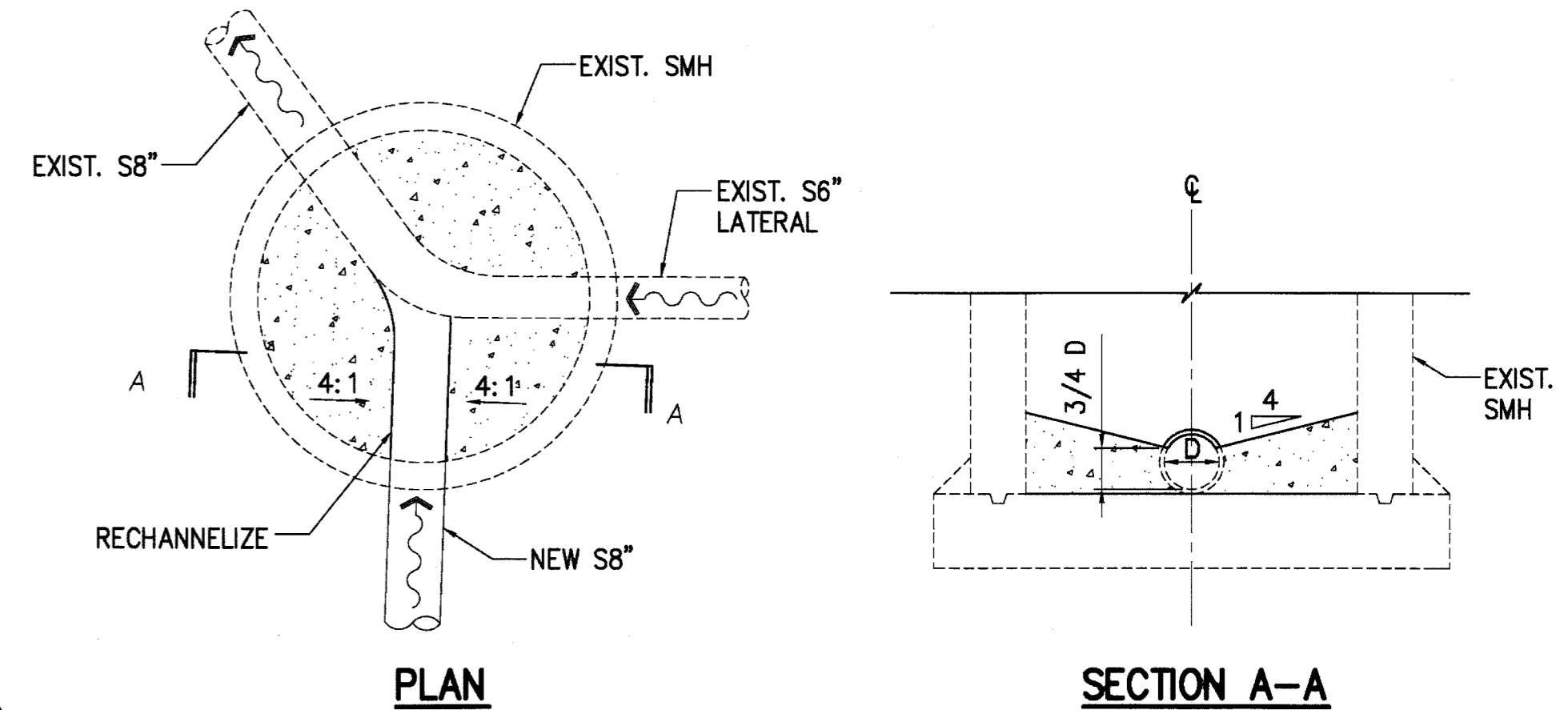


**1 TRENCH RESTORATION (PUBLIC)**  
C7.01 NOT TO SCALE

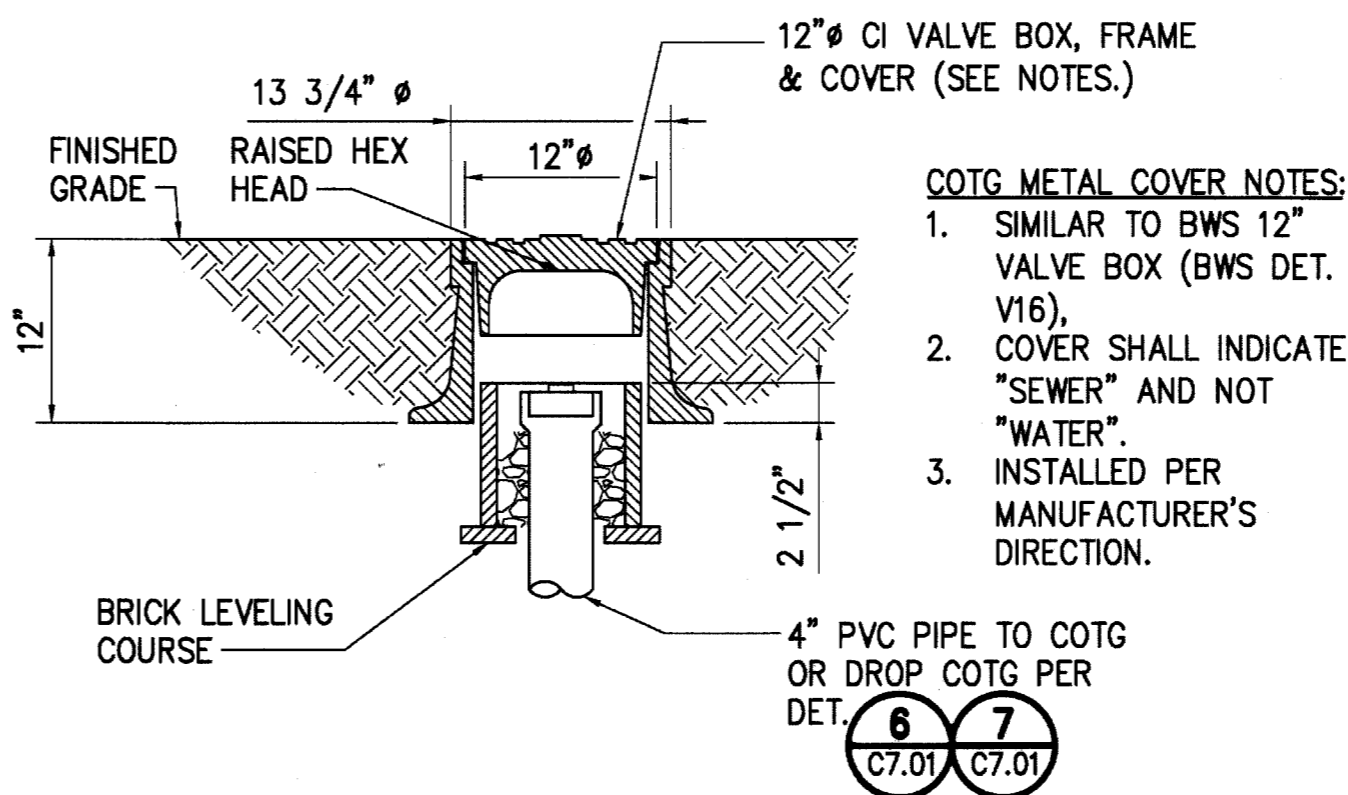
- TRENCH RESTORATION NOTES:**
1. PAVEMENT STRUCTURE SHALL BE EQUAL TO OR BETTER THAN EXISTING IN THICKNESS AND QUALITY.
  2. THE EXISTING PAVEMENT MAY VARY IN THICKNESS. CONTRACTOR SHALL BE RESPONSIBLE FOR SAWCUTTING, EXCAVATION, DISPOSAL, AND RESTORATION OF AC PAVEMENT, REGARDLESS OF ACTUAL PAVEMENT THICKNESS AT NO ADDITIONAL COST TO THE STATE.
  3. REPAVING LIMIT IS A MINIMUM OF 12 INCHES FROM EDGE OF TRENCH.
  4. ALL AFFECTED PAVEMENT MARKINGS SHALL BE RESTORED TO MATCH PRE-CONSTRUCTION CONDITIONS.



**2 TRENCH RESTORATION (PRIVATE)**  
C7.01 NOT TO SCALE

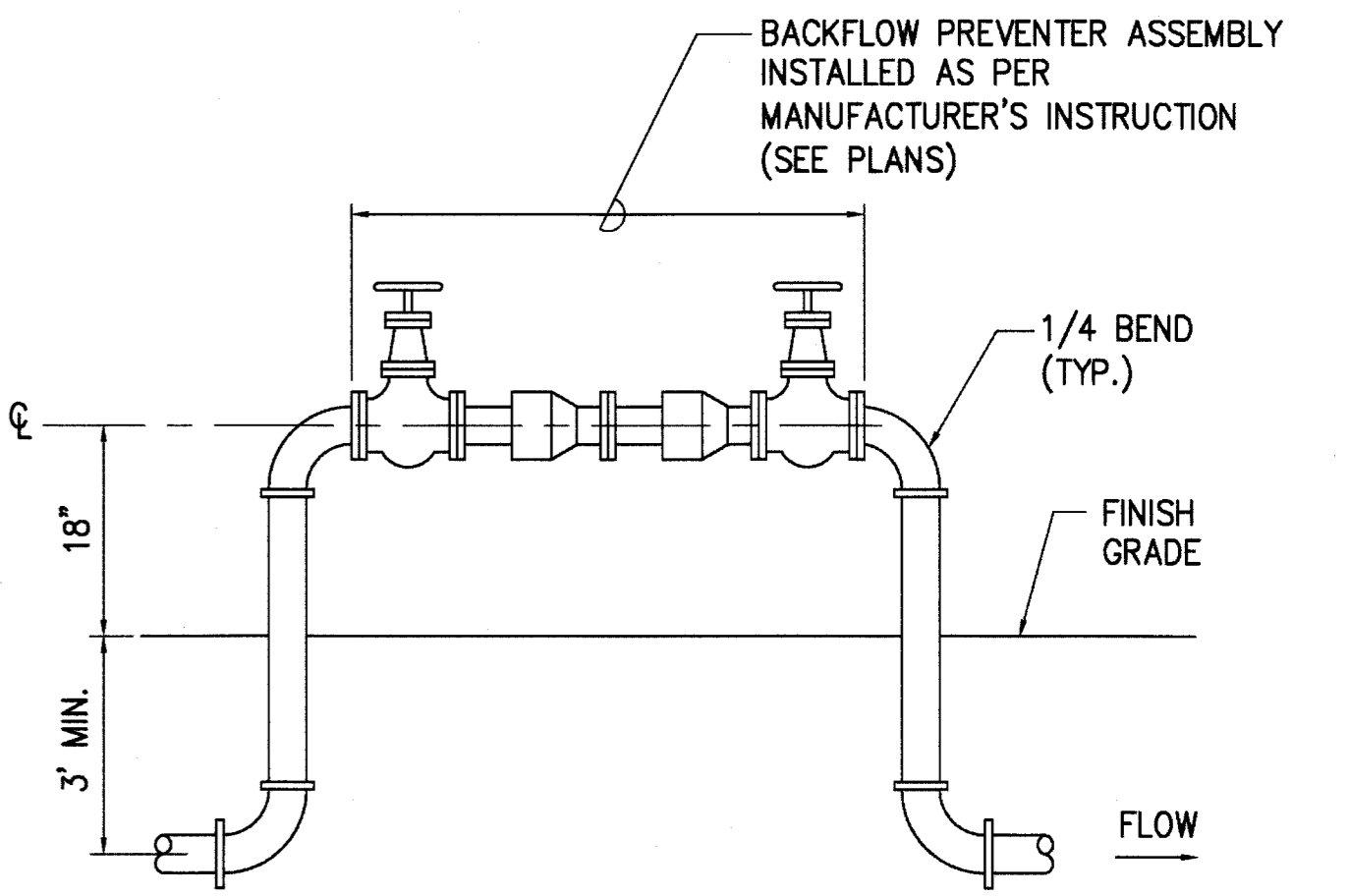


**3 CHANNELIZED MANHOLE DETAIL**  
C7.01 NOT TO SCALE

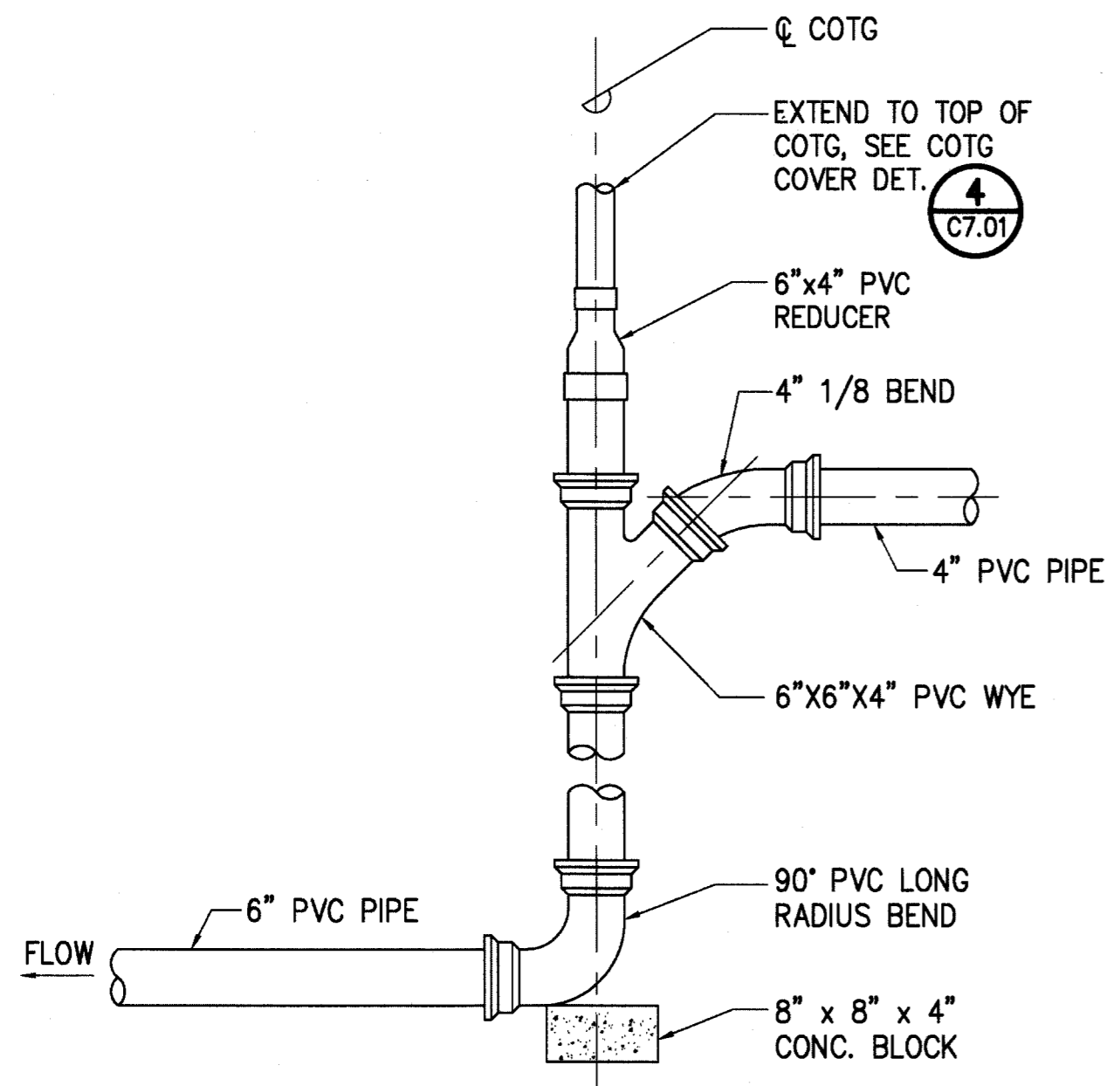


**4 COTG METAL COVER**  
C7.01 NOT TO SCALE

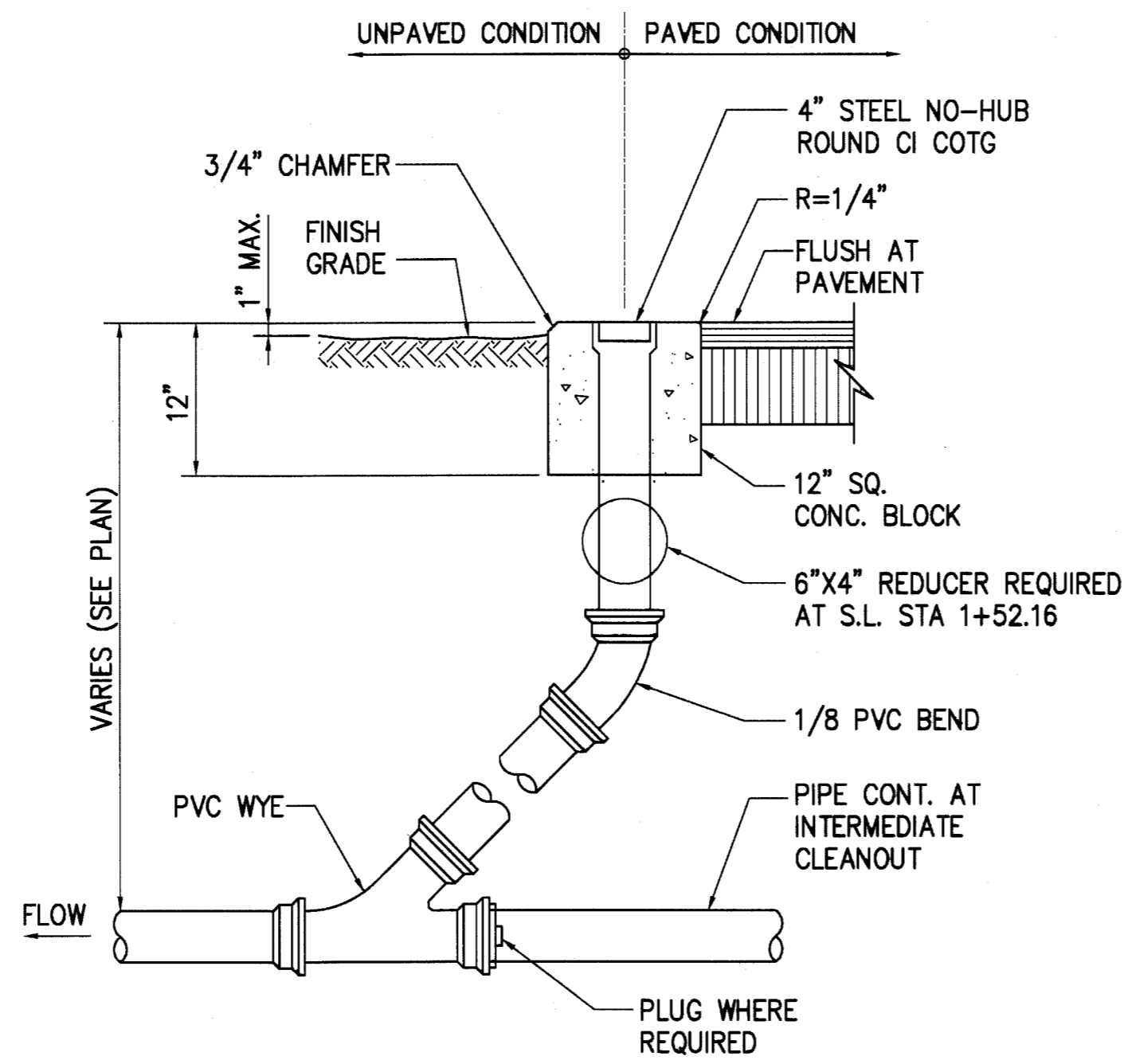
- COTG METAL COVER NOTES:**
1. SIMILAR TO BWS 12\"/>



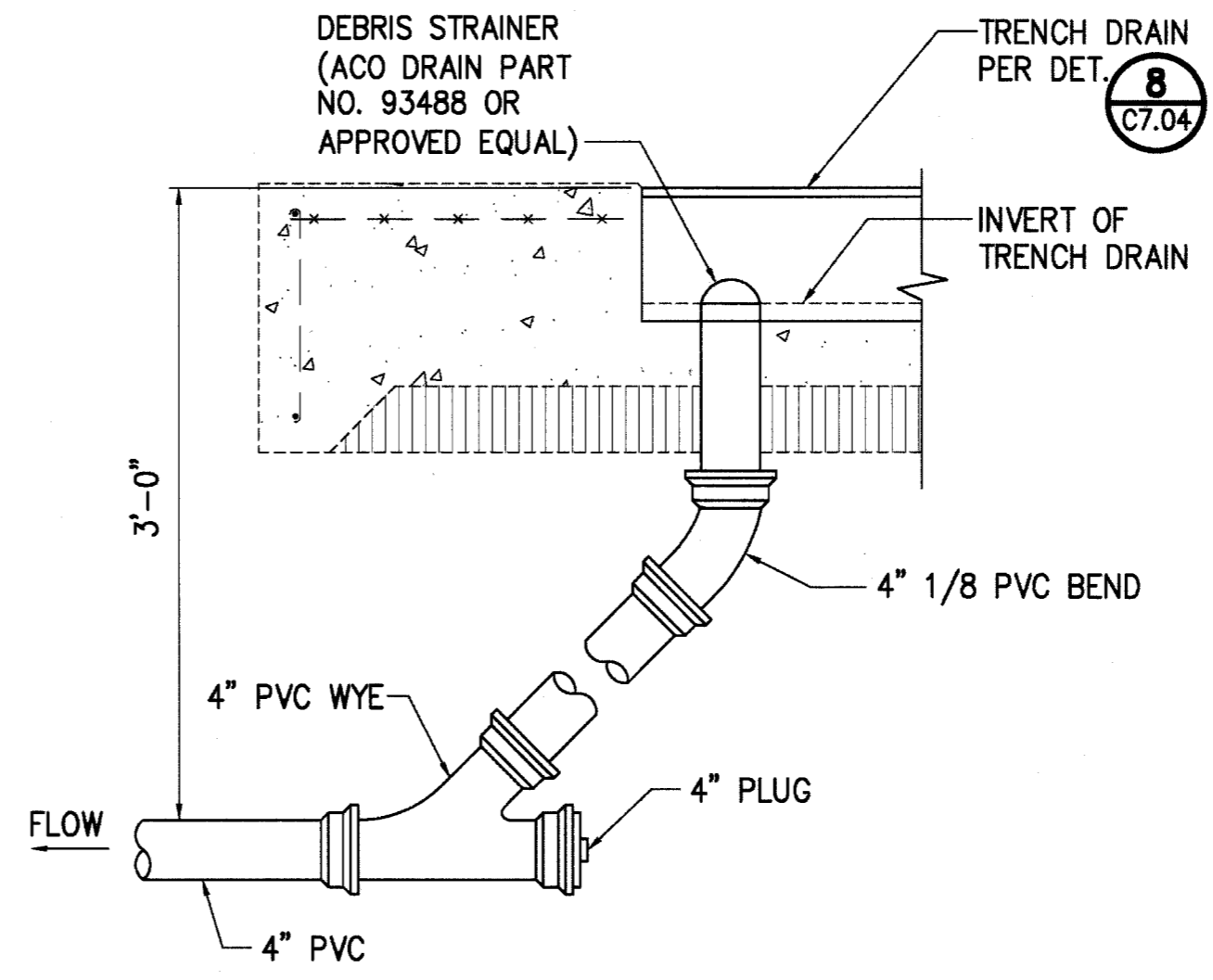
**5 BACKFLOW PREVENTER DETAIL**  
C7.01 NOT TO SCALE



**6 DROP CLEANOUT TO GRADE**  
C7.01 NOT TO SCALE



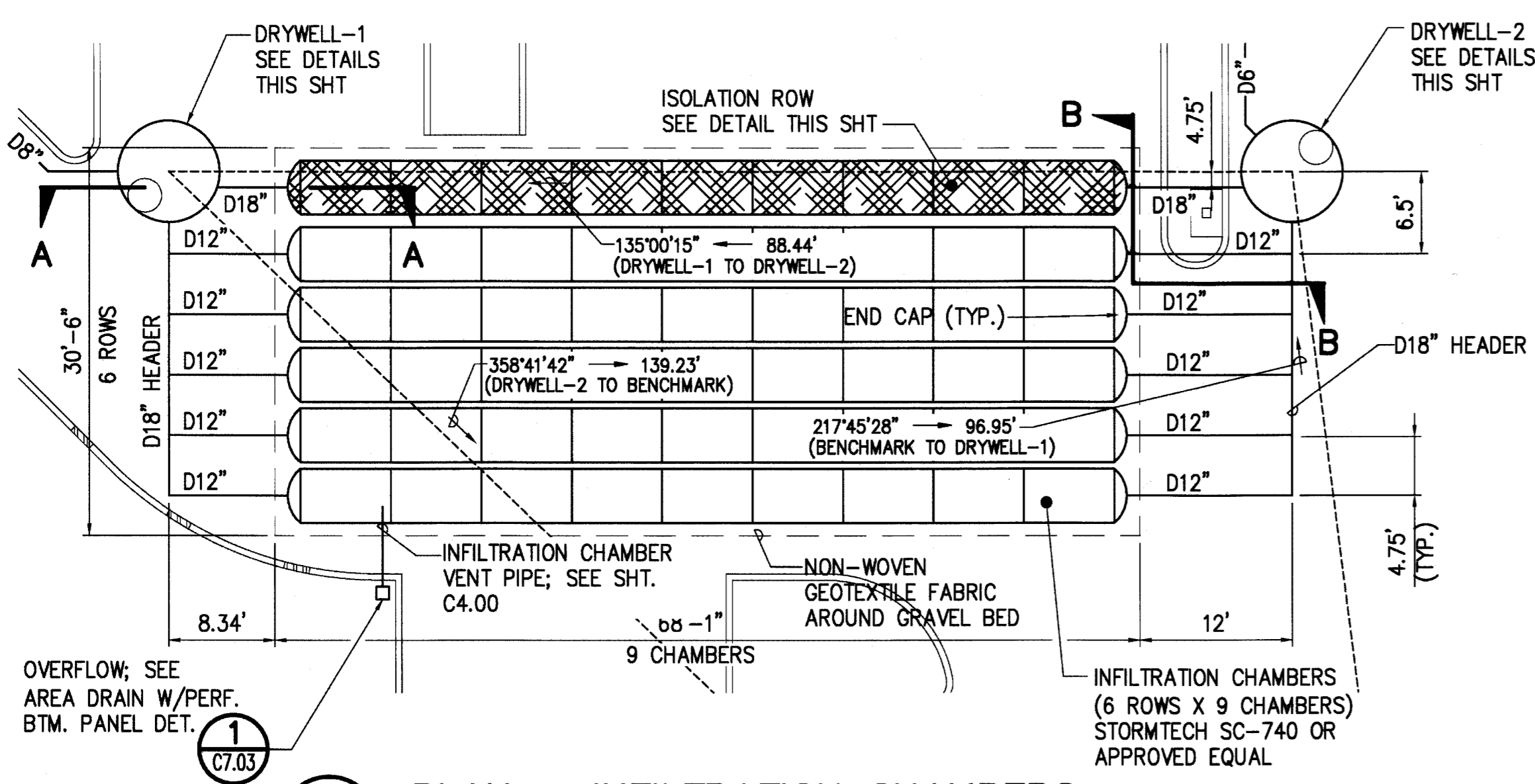
**7 CLEANOUT TO GRADE**  
C7.01 NOT TO SCALE



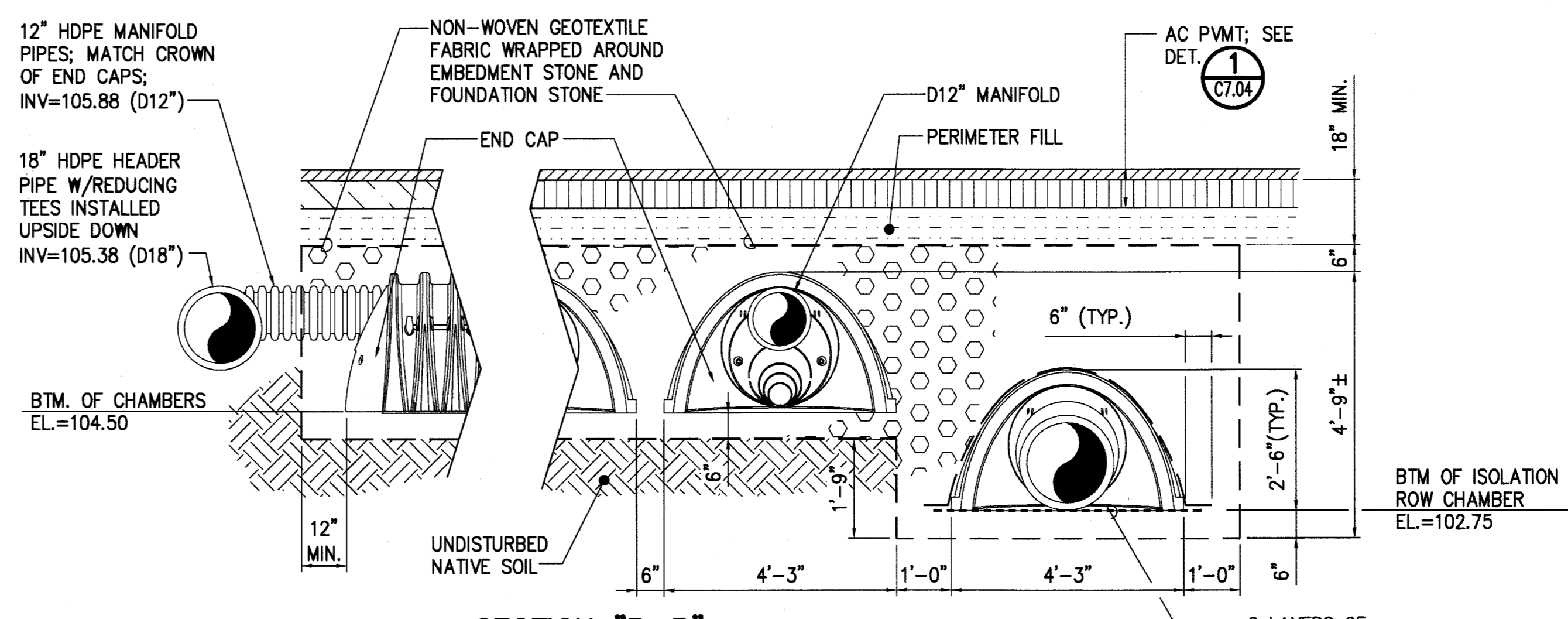
**8 TRENCH DRAIN CONNECTION**  
C7.01 NOT TO SCALE

| REVISION NO.                                                                                                        | SYM.                                                                                   | DESCRIPTION | SHT./OF                 | DATE | APPROVED            |
|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------|-------------------------|------|---------------------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION                                 |                                                                                        |             |                         |      |                     |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                                                          |                                                                                        |             |                         |      |                     |
| DETAILS - 2                                                                                                         |                                                                                        |             |                         |      |                     |
| DESIGNED:                                                                                                           | YT                                                                                     | SUBMITTED:  | ac                      |      |                     |
| DRAWN:                                                                                                              | YT                                                                                     | DATE:       | 03/15/2016              |      |                     |
| CHECKED:                                                                                                            | YT                                                                                     | SCALE:      | AS SHOWN                |      |                     |
| APPROVED:                                                                                                           | <br>YVONNE M. TURRO<br>LICENSED PROFESSIONAL ENGINEER<br>No. 11144-C<br>HAWAII, U.S.A. |             | EXP. DATE<br>04/30/2016 |      | DRAWING NO.         |
| THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. |                                                                                        |             |                         |      | MAR 23 2016<br>DATE |
| CHIEF ENGINEER                                                                                                      |                                                                                        |             |                         |      | C7.01               |

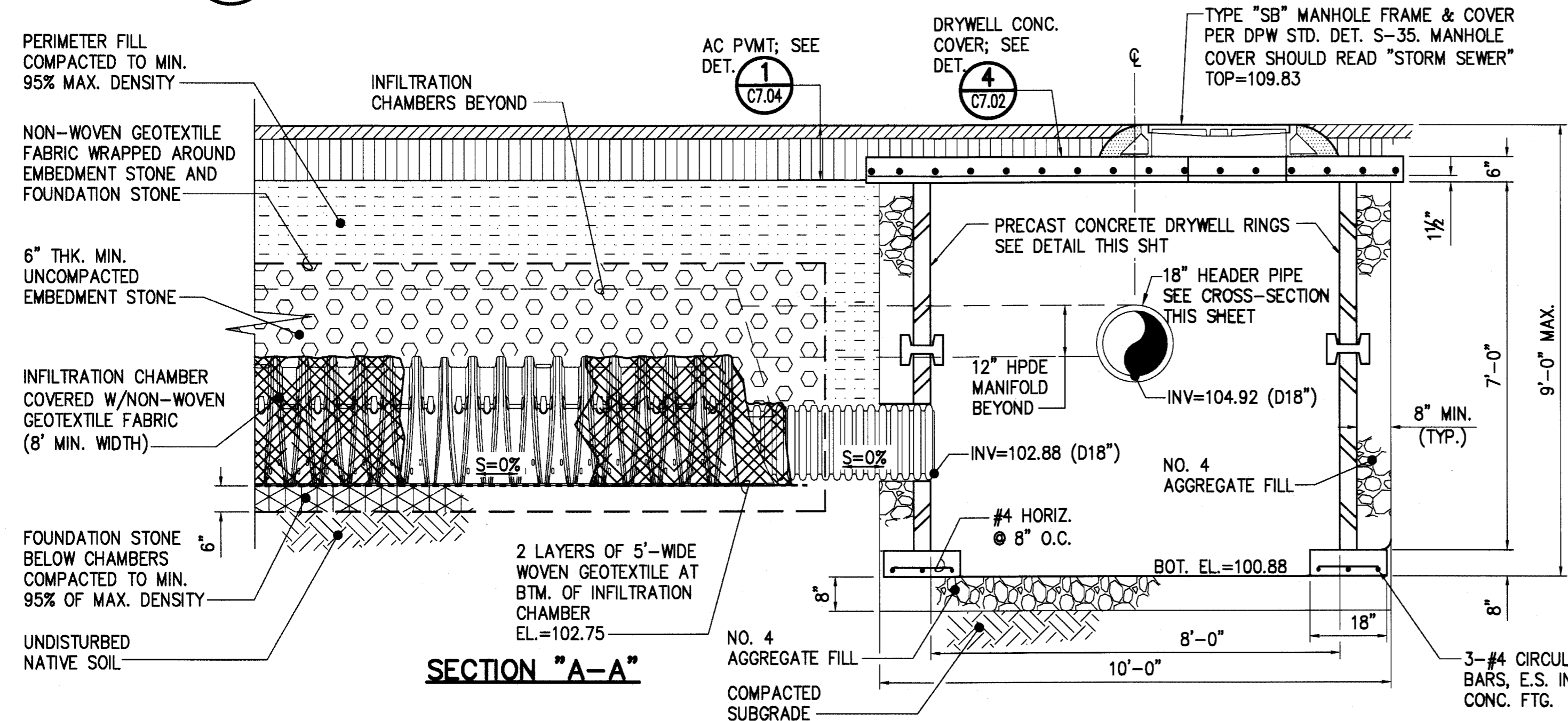
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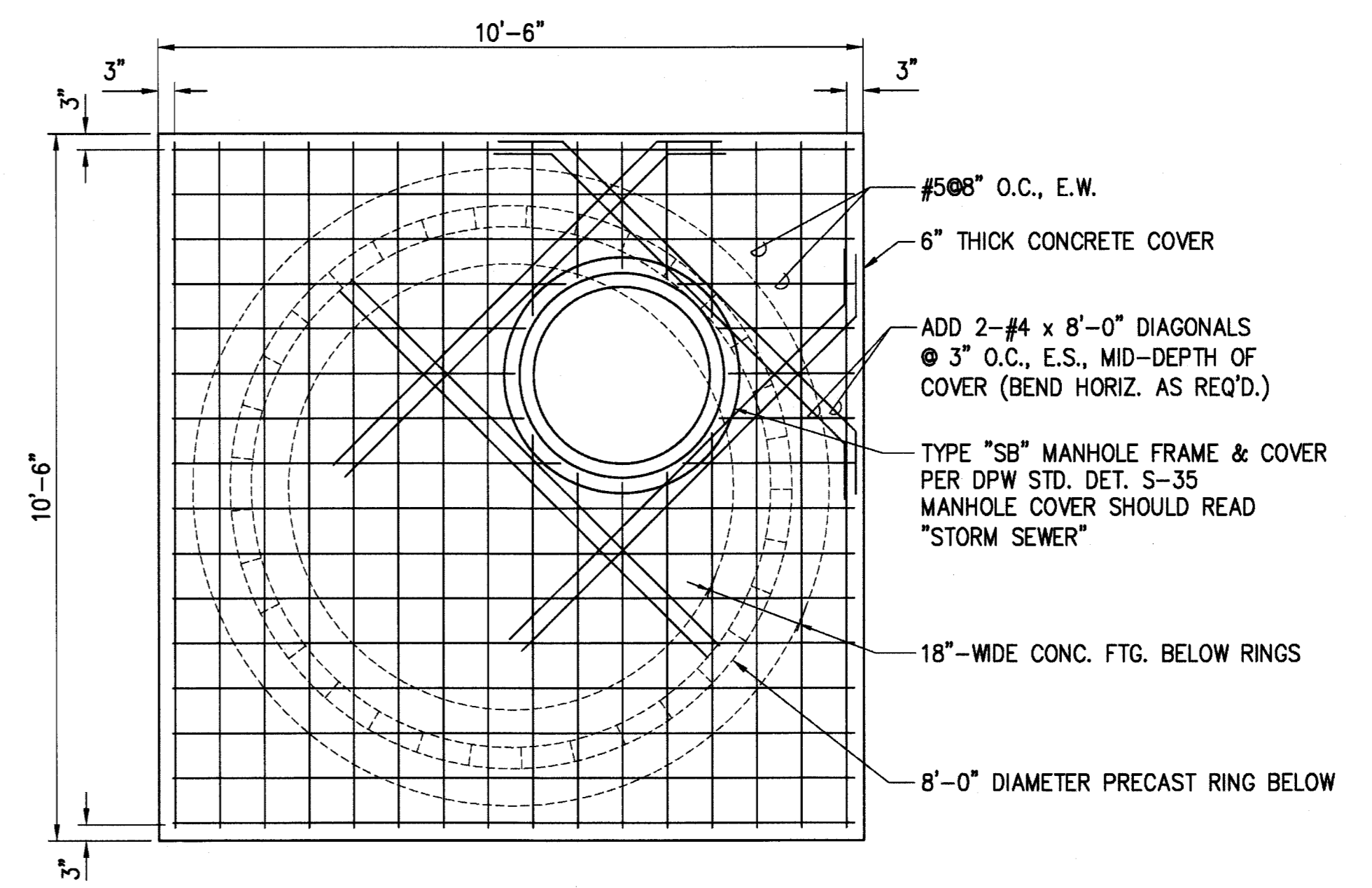
**1 PLAN - INFILTRATION CHAMBERS**  
 SCALE: 1"=10'



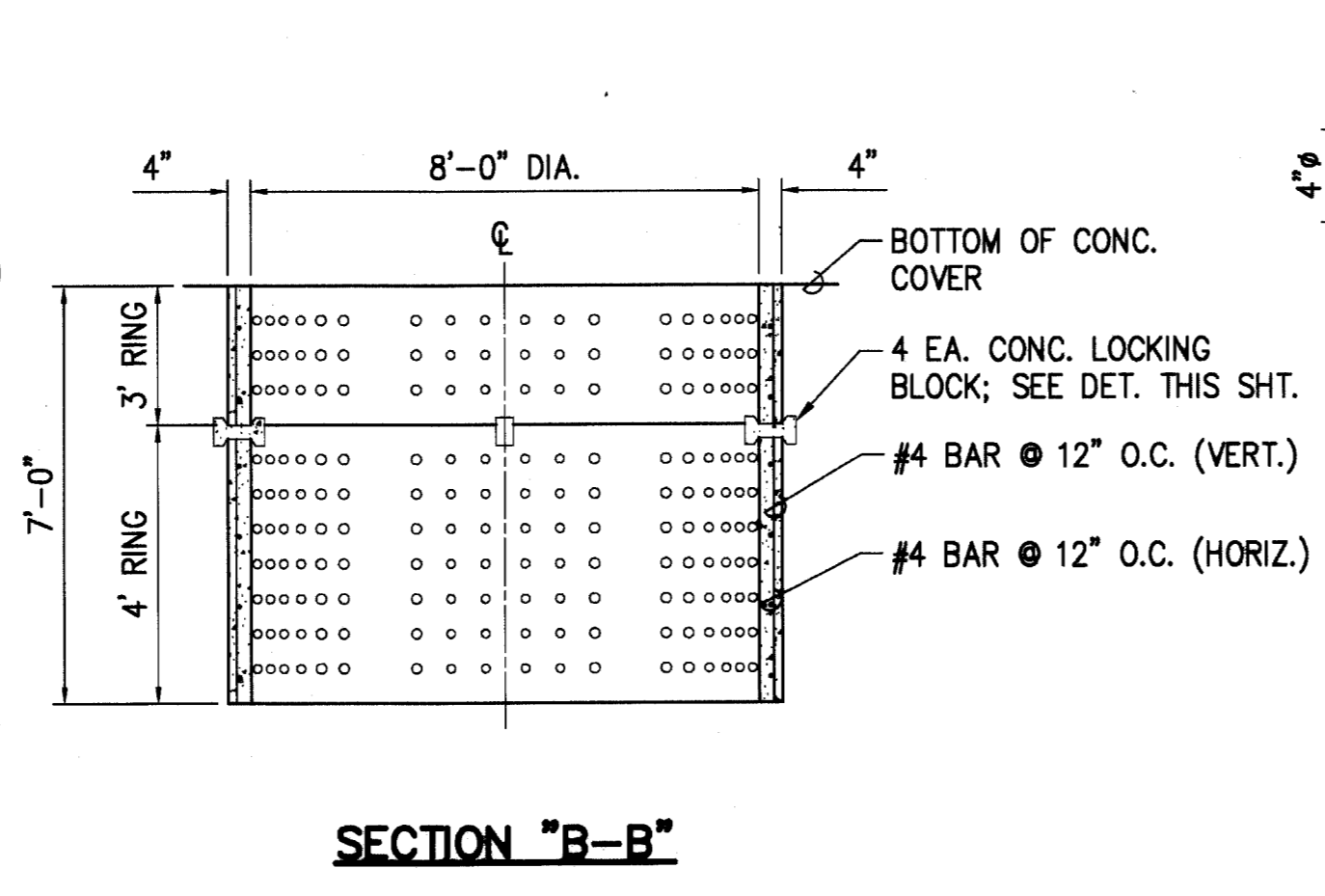
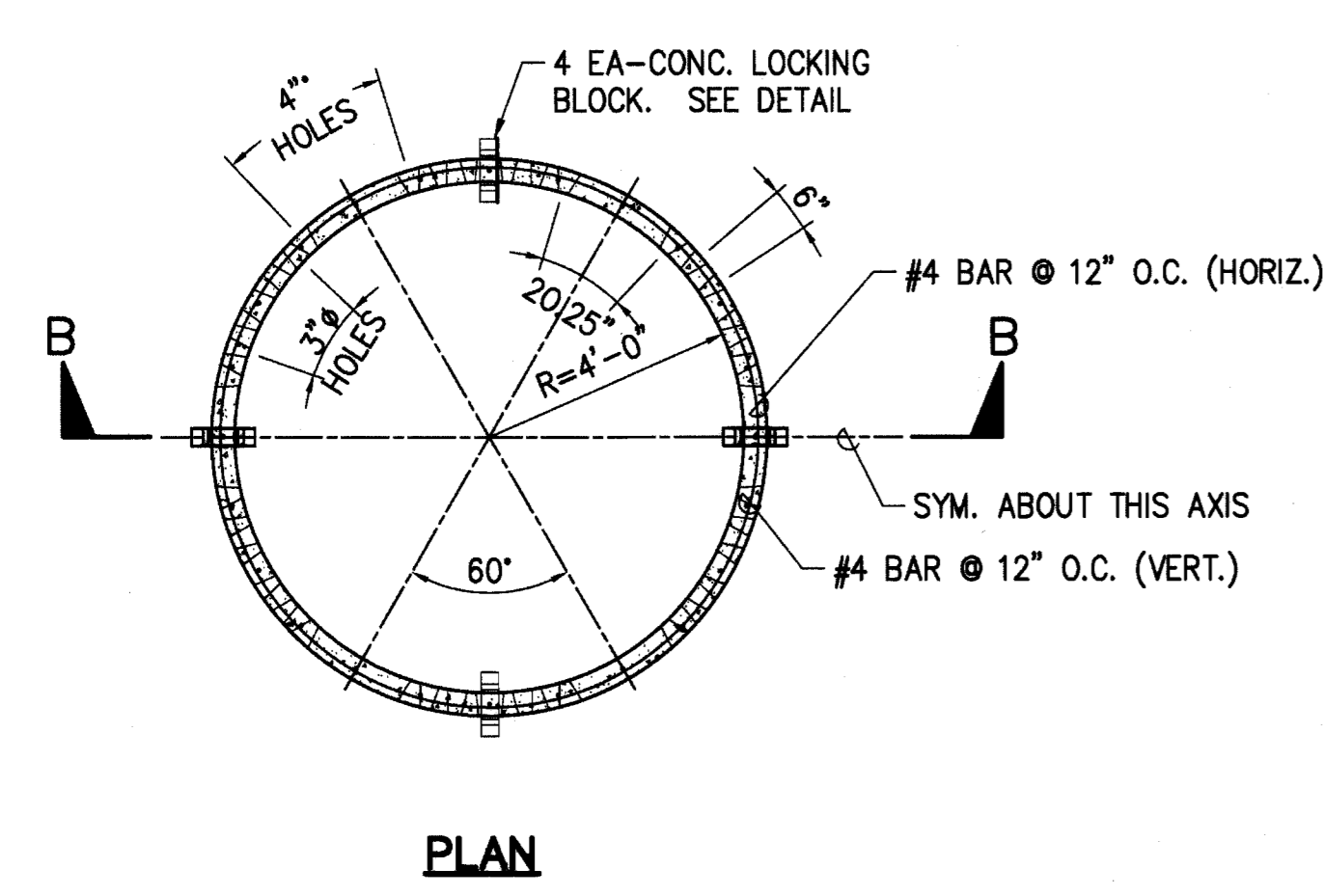
**2 INFILTRATION CHAMBER CROSS-SECTION**  
 NOT TO SCALE



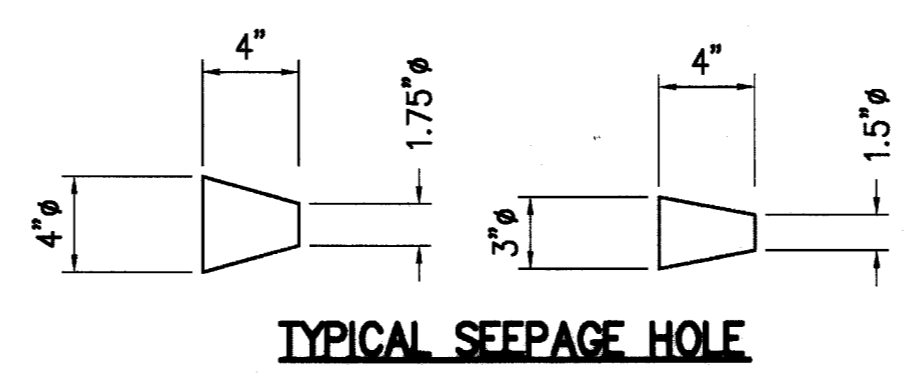
**3 INFILTRATION CHAMBER ISOLATION ROW DETAIL**  
 NOT TO SCALE



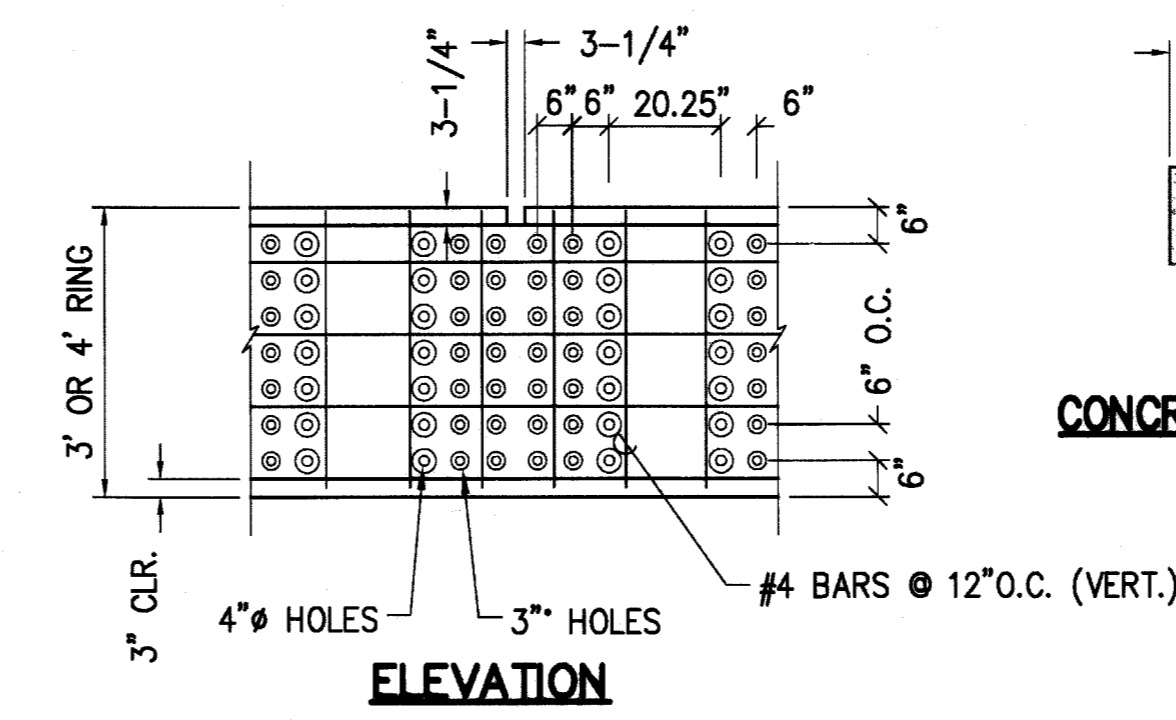
**4 DRYWELL CONCRETE COVER DETAIL**  
 NOT TO SCALE



**5 PRECAST DRYWELL RINGS DETAIL**  
 NOT TO SCALE

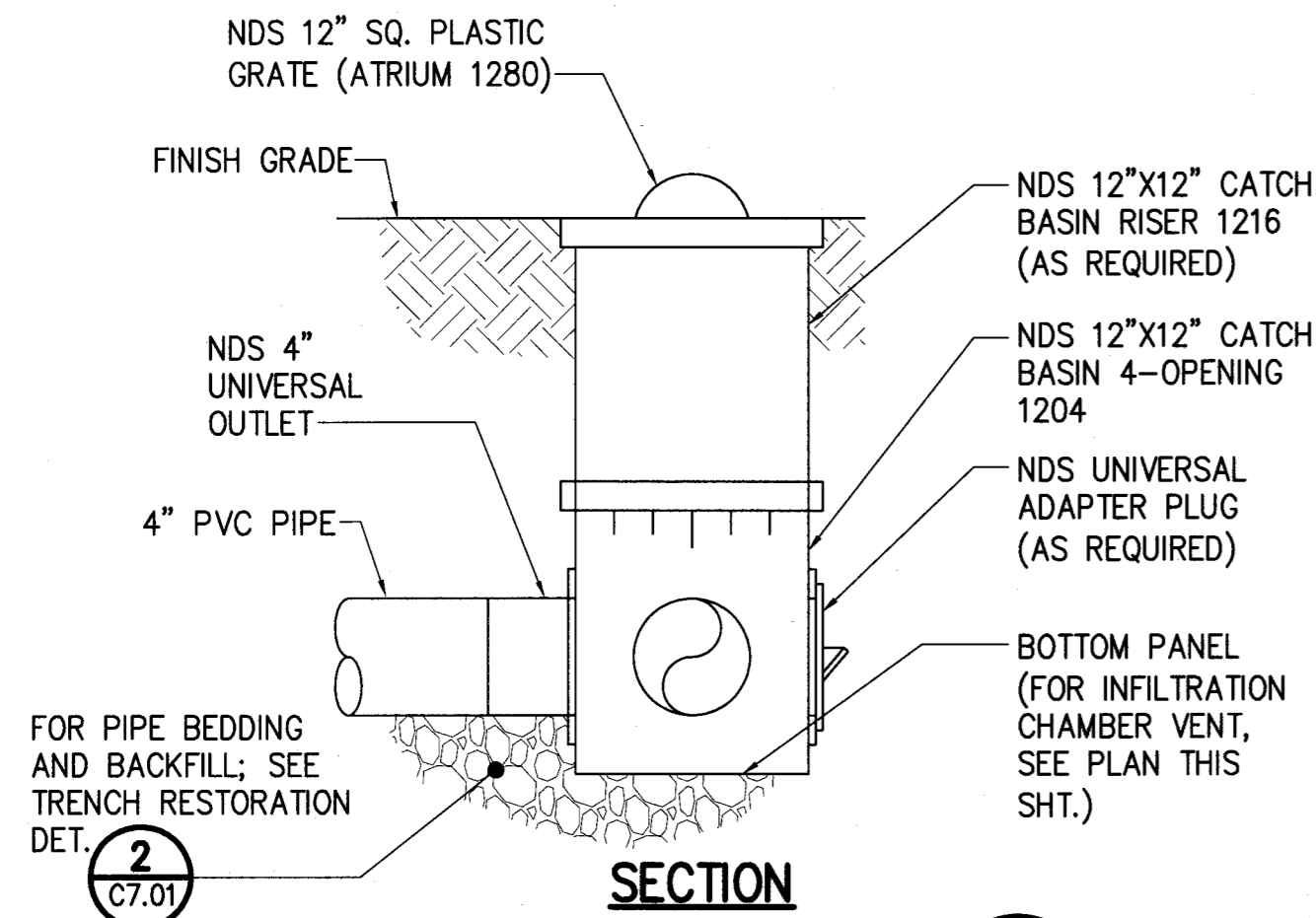


**TYPICAL SEEPAGE HOLE**

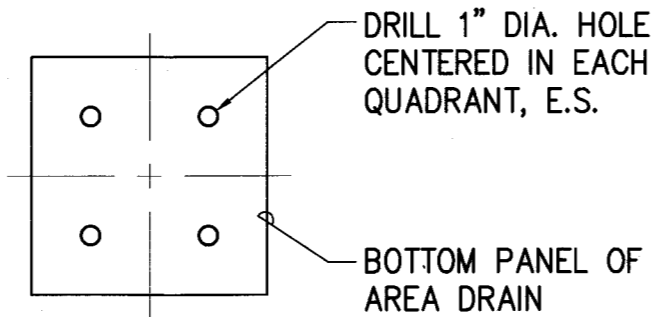


**CONCRETE LOCKING BLOCK**

| REVISION NO.                                                                                                                             | SYM.               | DESCRIPTION | SHT./OF     | DATE | APPROVED |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|-------------|------|----------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION<br><b>MAUI OFFICE ANNEX</b><br>WAILUKU, MAUI, HAWAII |                    |             |             |      |          |
| <b>DETAILS - 3</b>                                                                                                                       |                    |             |             |      |          |
| DESIGNED:                                                                                                                                | CJ                 | SUBMITTED:  | 9/2         |      |          |
| DRAWN:                                                                                                                                   | CJ                 | DATE:       | 03/15/2016  |      |          |
| CHECKED:                                                                                                                                 | YT                 | SCALE:      | AS SHOWN    |      |          |
| APPROVED:                                                                                                                                | <i>[Signature]</i> | DATE:       | MAR 23 2016 |      |          |
| CHIEF ENGINEER                                                                                                                           |                    | DRAWING NO. | C7.02       |      |          |

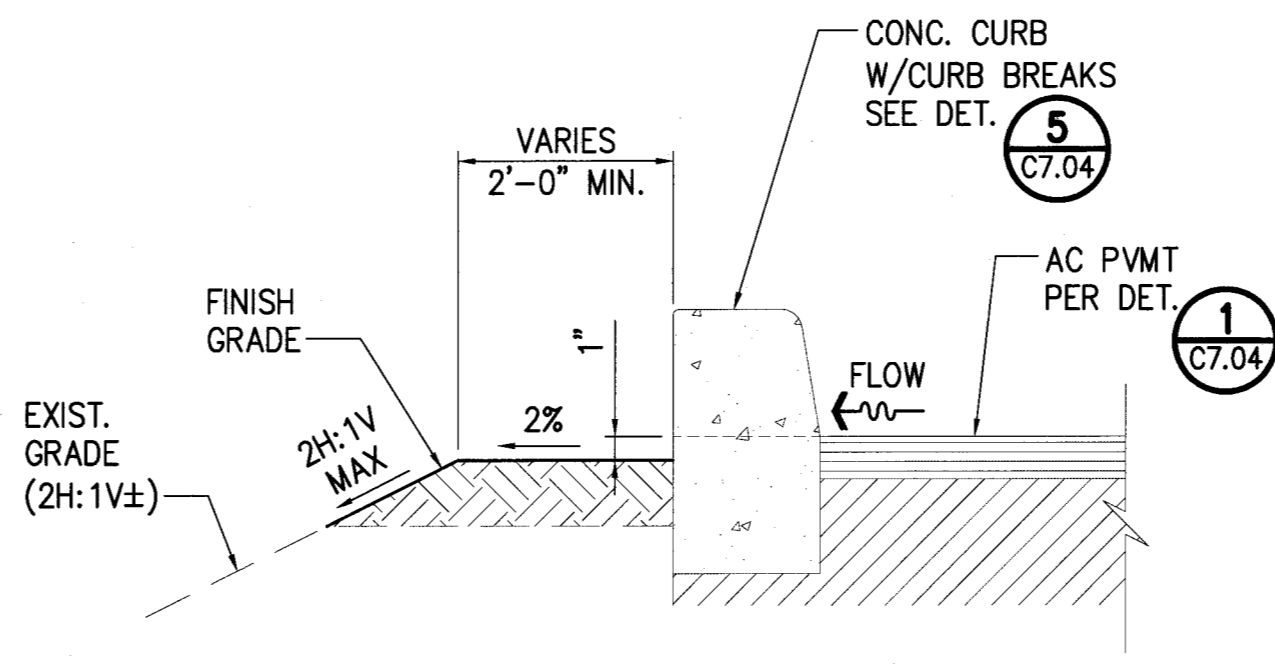


**1 AREA DRAIN**  
C7.03 NOT TO SCALE

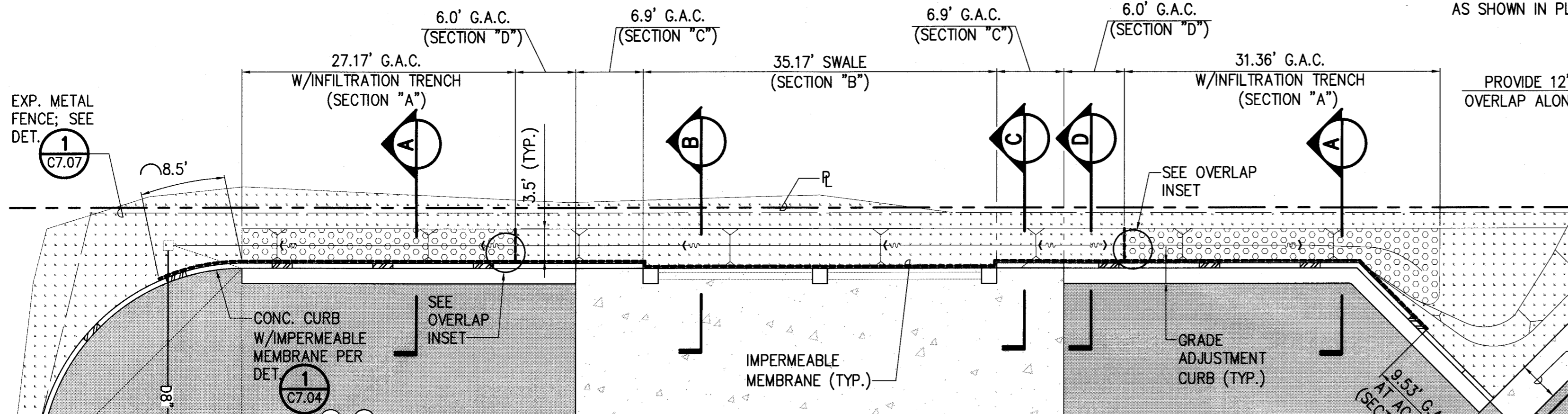
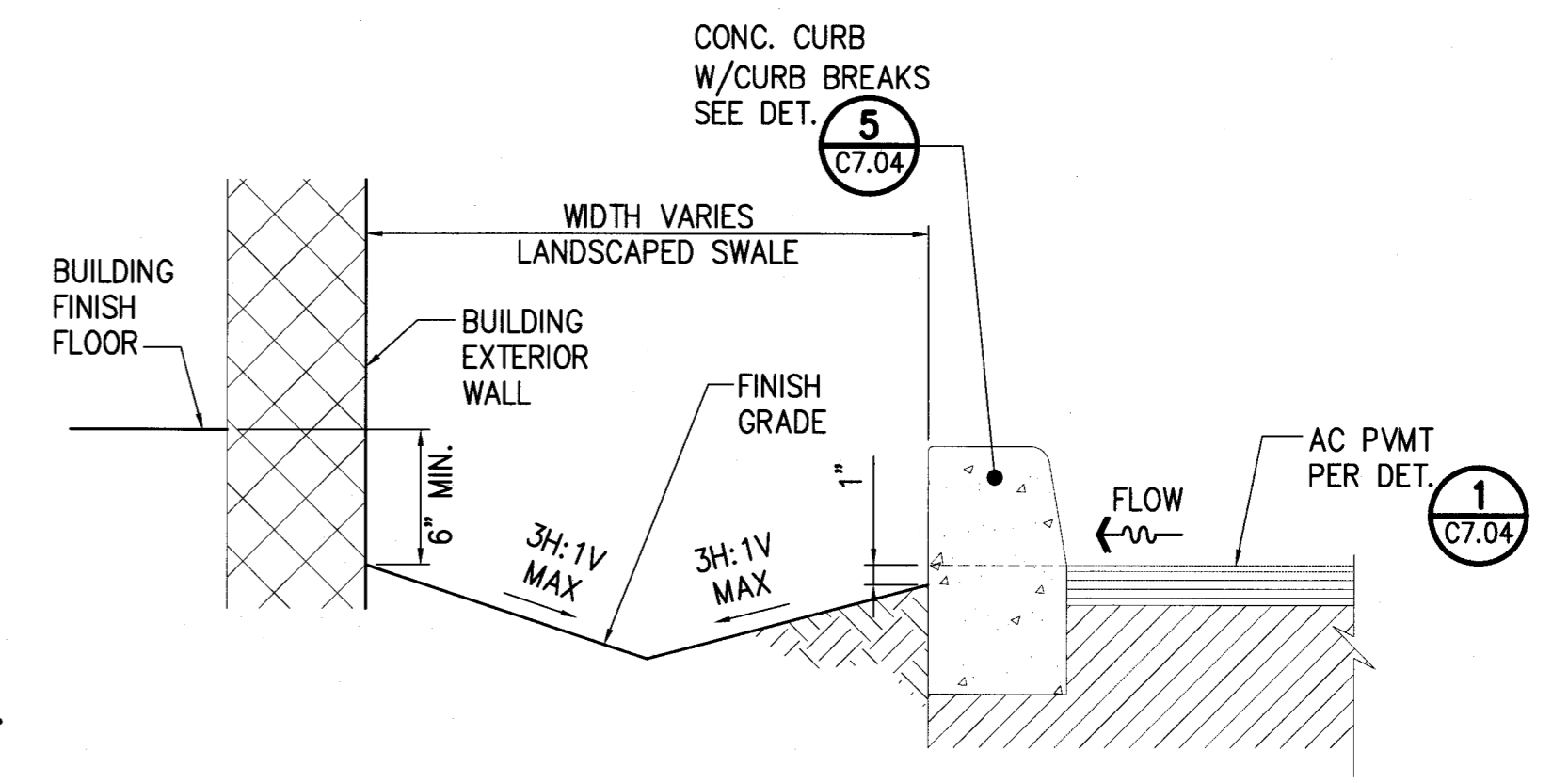


**BOTTOM PANEL PLAN**  
(FOR INFILTRATION CHAMBER VENT ONLY)

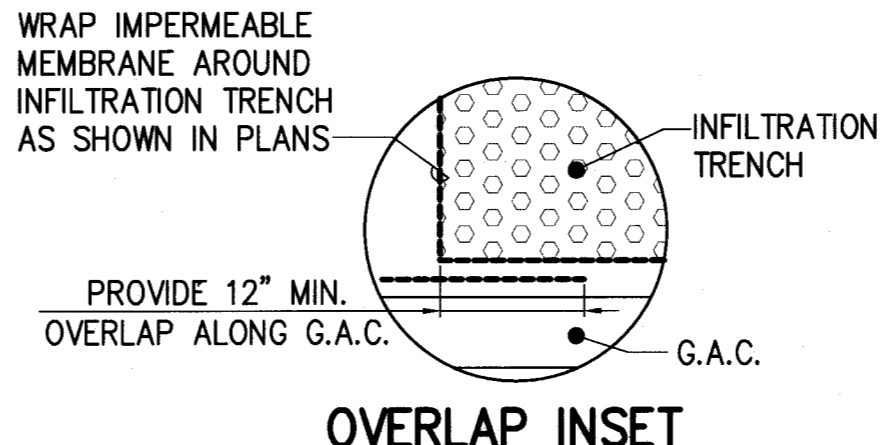
**2 SECTION - DAYLIGHT ALONG EXIST. SLOPE**  
C7.03 NOT TO SCALE



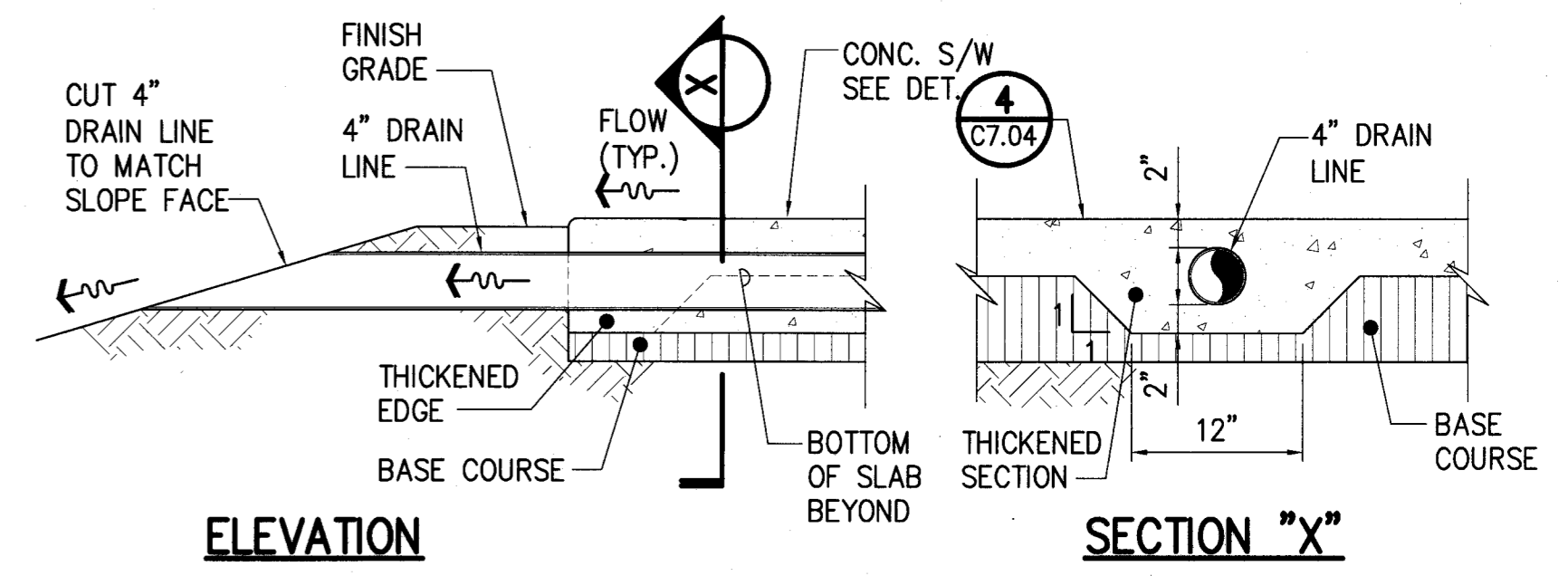
**3 SECTION - GRADING ALONG BUILDING**  
C7.03 NOT TO SCALE



**PLAN - GRADE ADJUSTMENT CURB (G.A.C.)**



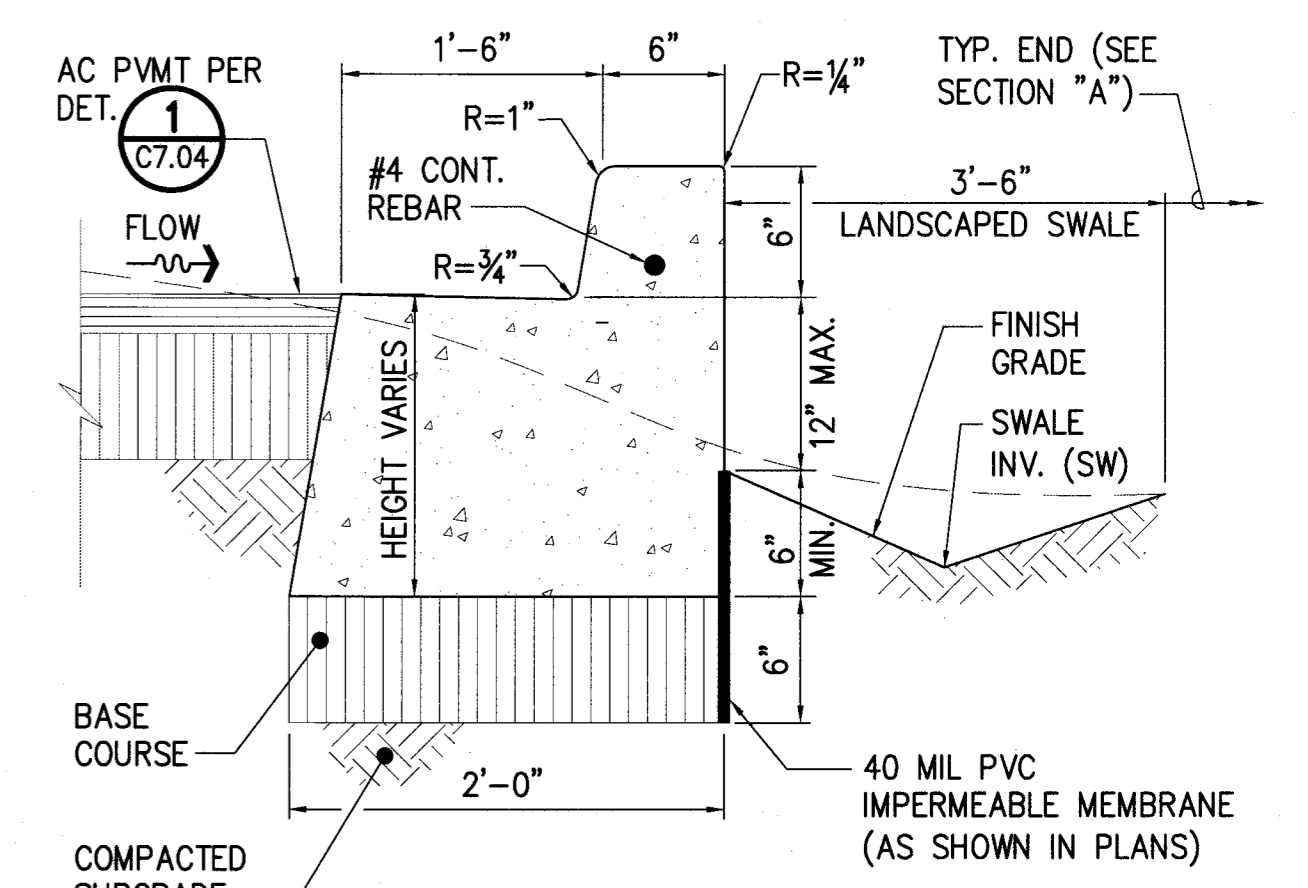
**OVERLAP INSET**



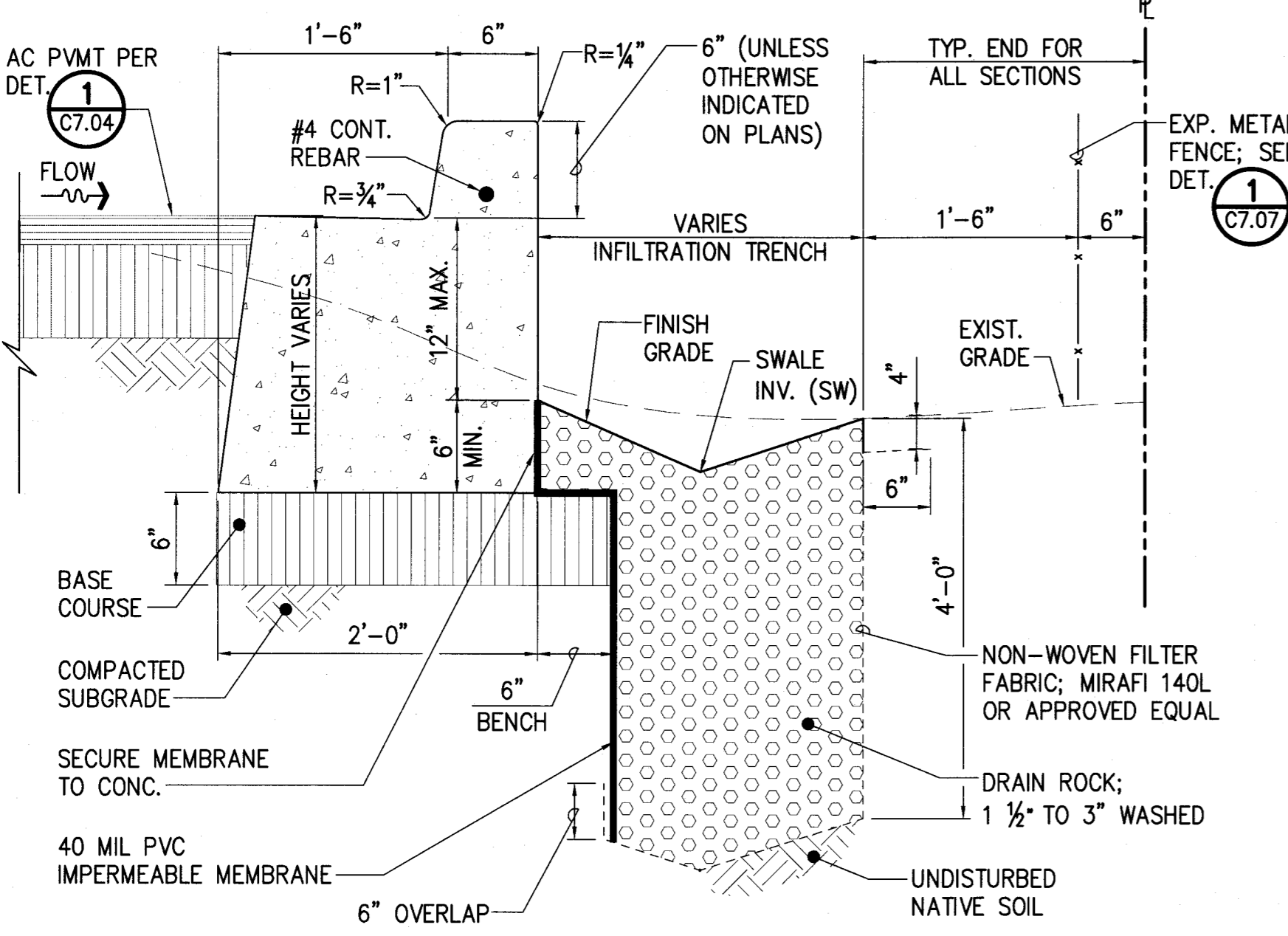
**ELEVATION**

**SECTION "X"**

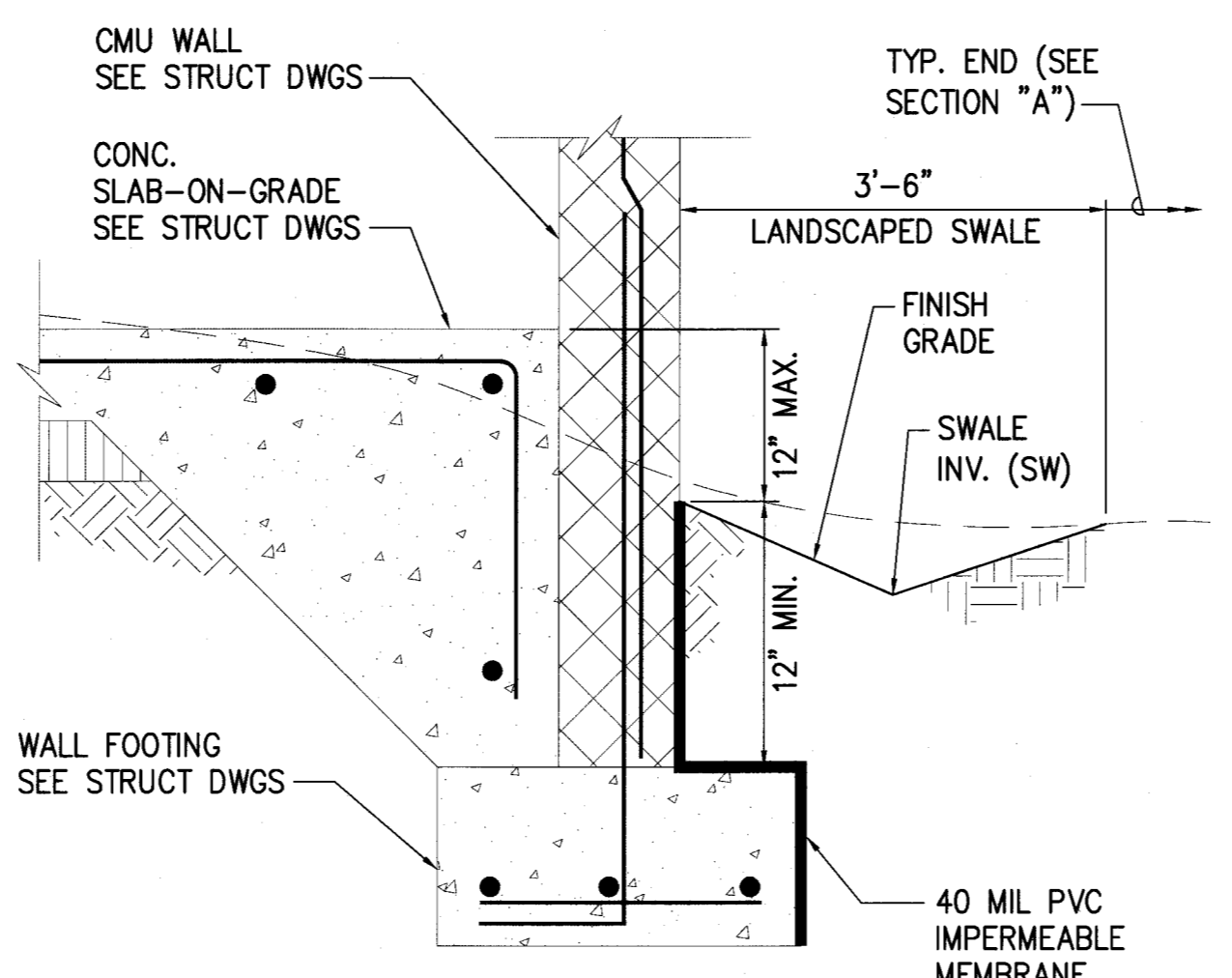
**4 DOWNSPOUT OUTLET**  
C7.03 NOT TO SCALE



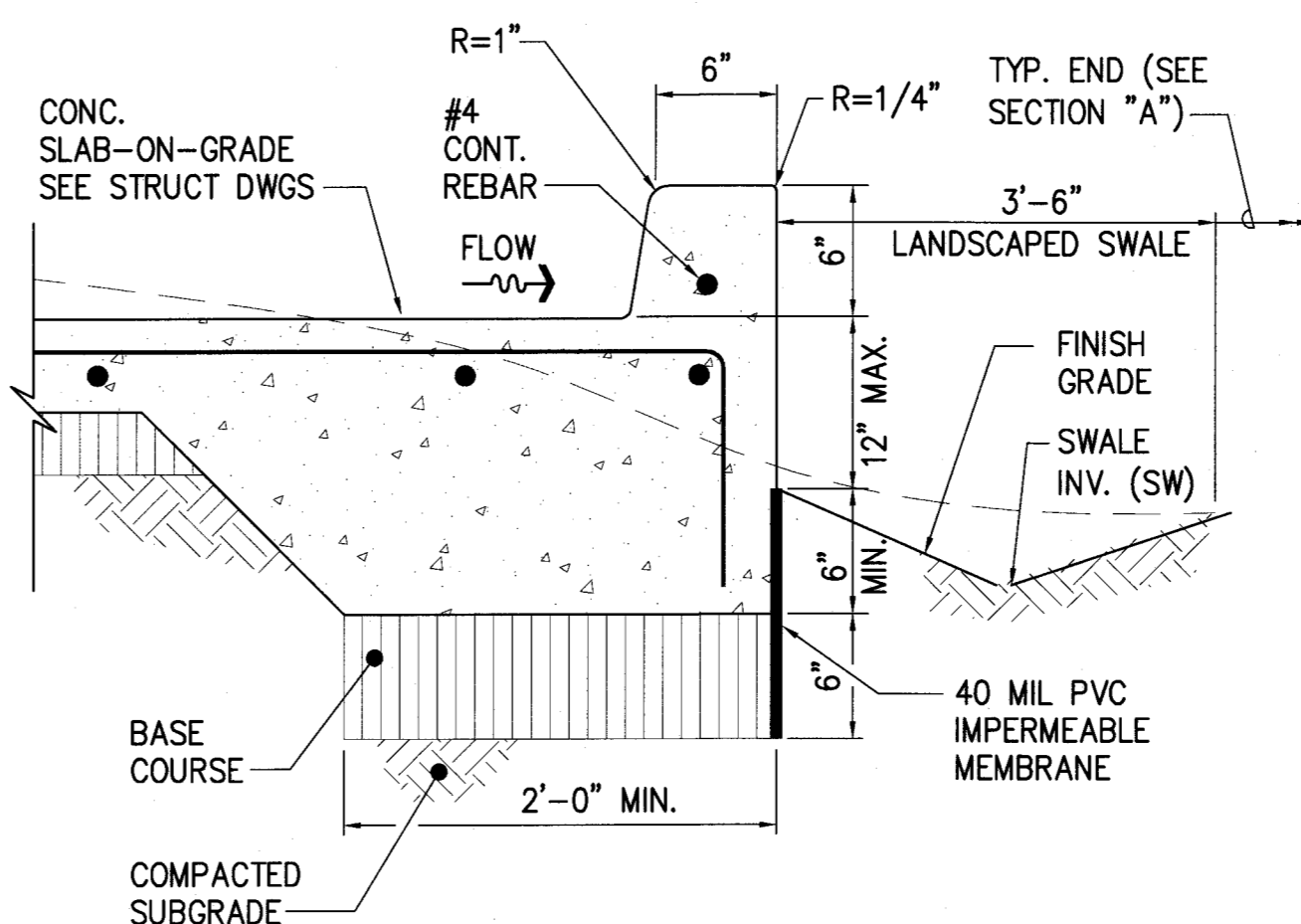
**SECTION "D"**  
**GRADE ADJUSTMENT CURB AT AC PMVT**



**SECTION "A"**  
**GRADE ADJUSTMENT CURB W/INFILTRATION TRENCH**



**SECTION "B"**  
**SWALE AT CMU WALL**



**SECTION "C"**  
**GRADE ADJUSTMENT CURB AT CONC. SLAB**

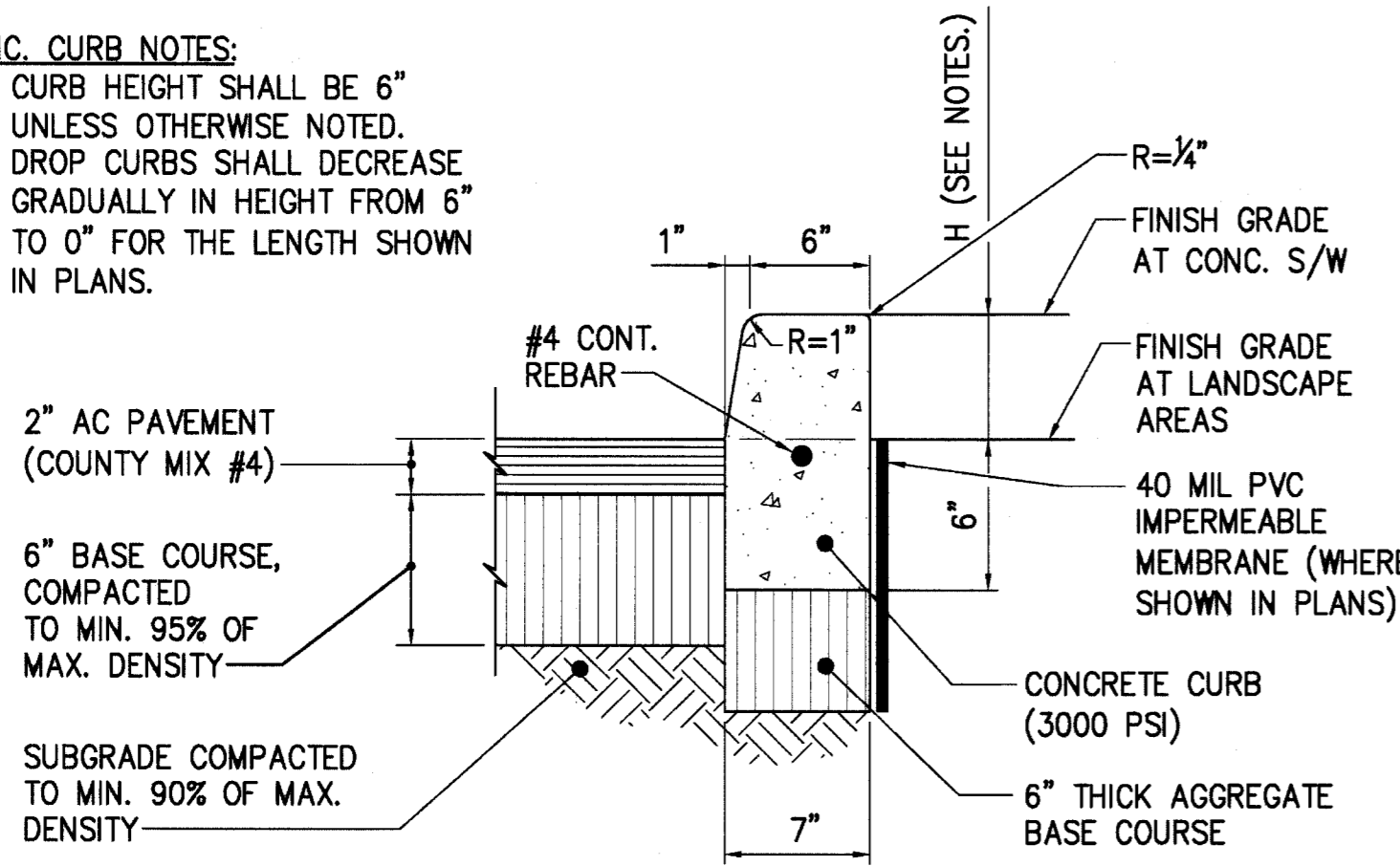
**5 GRADE ADJUSTMENT CURB**  
C7.03 NOT TO SCALE

- NOTES:**
- FOR REQUIRED ELEVATIONS SEE GRADING AND DRAINAGE PLAN, DWG. C4.01.
  - FOR PLANTING PLAN SEE LANDSCAPE DWGS.

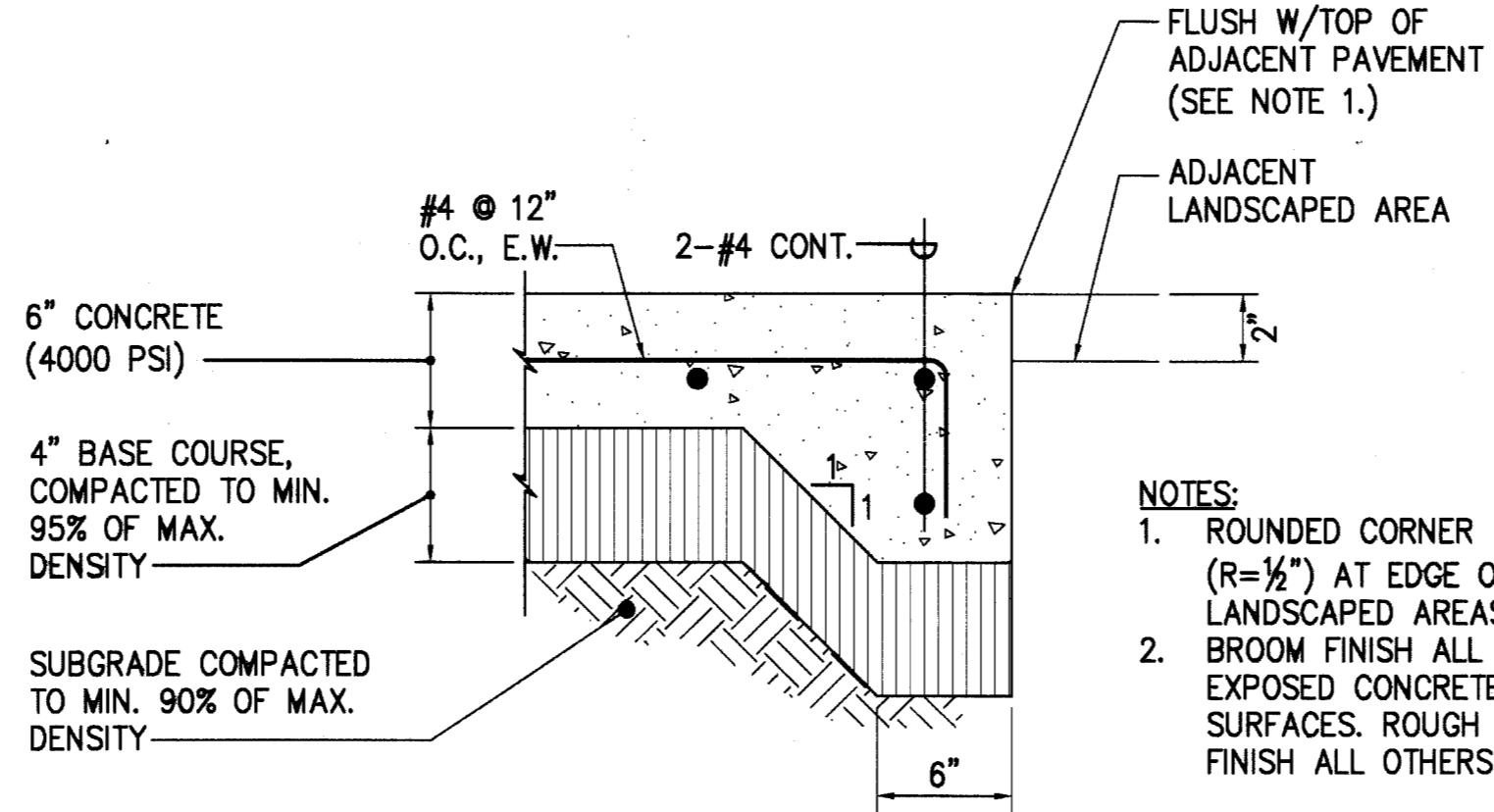
| REVISION NO.                                                                        | SYM.               | DESCRIPTION | SHT. OF     | DATE        | APPROVED |
|-------------------------------------------------------------------------------------|--------------------|-------------|-------------|-------------|----------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION |                    |             |             |             |          |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                          |                    |             |             |             |          |
| DETAILS - 4                                                                         |                    |             |             |             |          |
| DESIGNED:                                                                           | CJ                 | SUBMITTED:  | 6           |             |          |
| DRAWN:                                                                              | CJ                 | DATE:       | 03/15/2016  |             |          |
| CHECKED:                                                                            | YT                 | SCALE:      | AS SHOWN    |             |          |
| APPROVED:                                                                           | <i>[Signature]</i> | DATE:       | MAR 23 2016 |             |          |
| CHIEF ENGINEER                                                                      |                    | DATE        |             | DRAWING NO. | C7.03    |

L.N.I. PROJECTS V.3 - DLNR\16304 - Maui Admin. Bldg. DESIGN DRAWING DETAILS dwg - 3/18/2016 10:05 AM

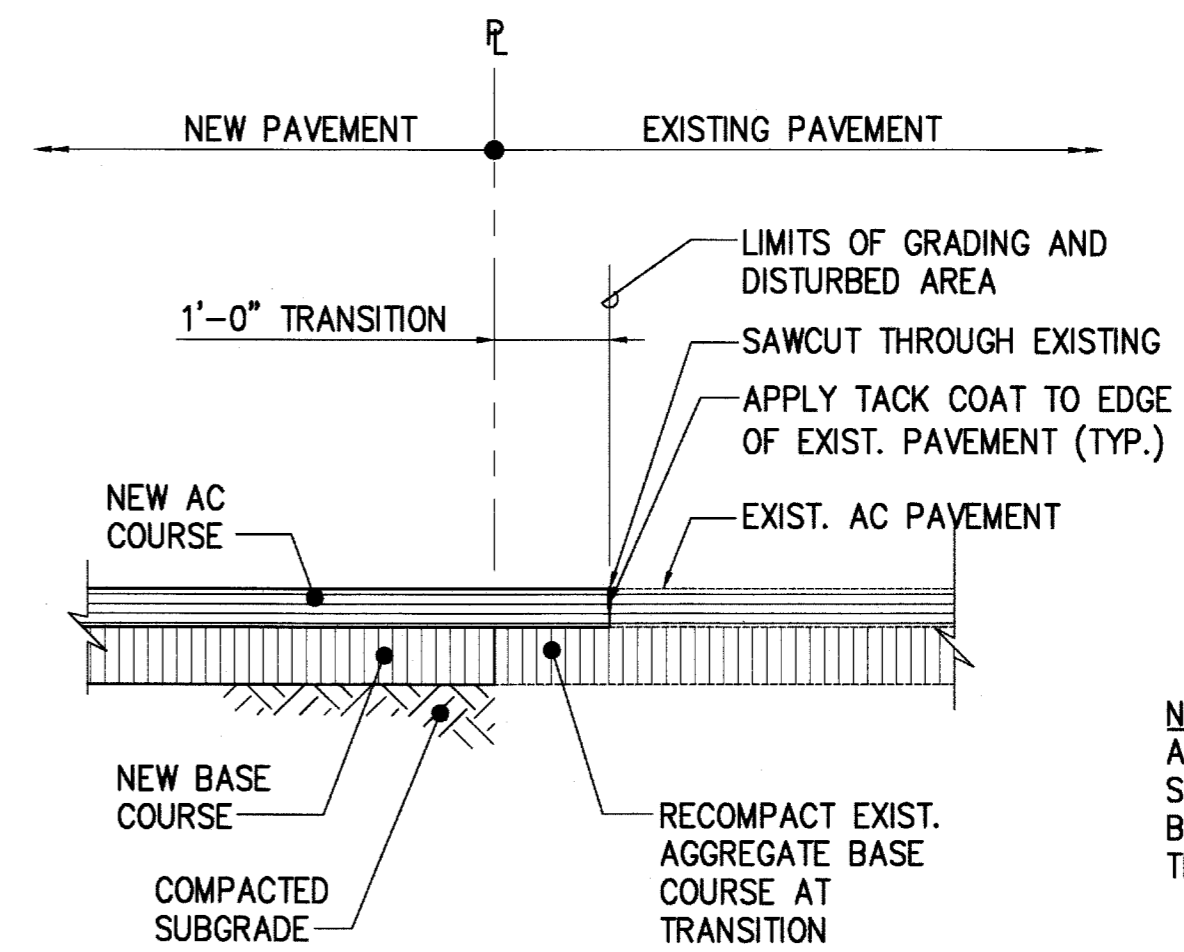
- CONC. CURB NOTES:**
1. CURB HEIGHT SHALL BE 6" UNLESS OTHERWISE NOTED.
  2. DROP CURBS SHALL DECREASE GRADUALLY IN HEIGHT FROM 6" TO 0" FOR THE LENGTH SHOWN IN PLANS.



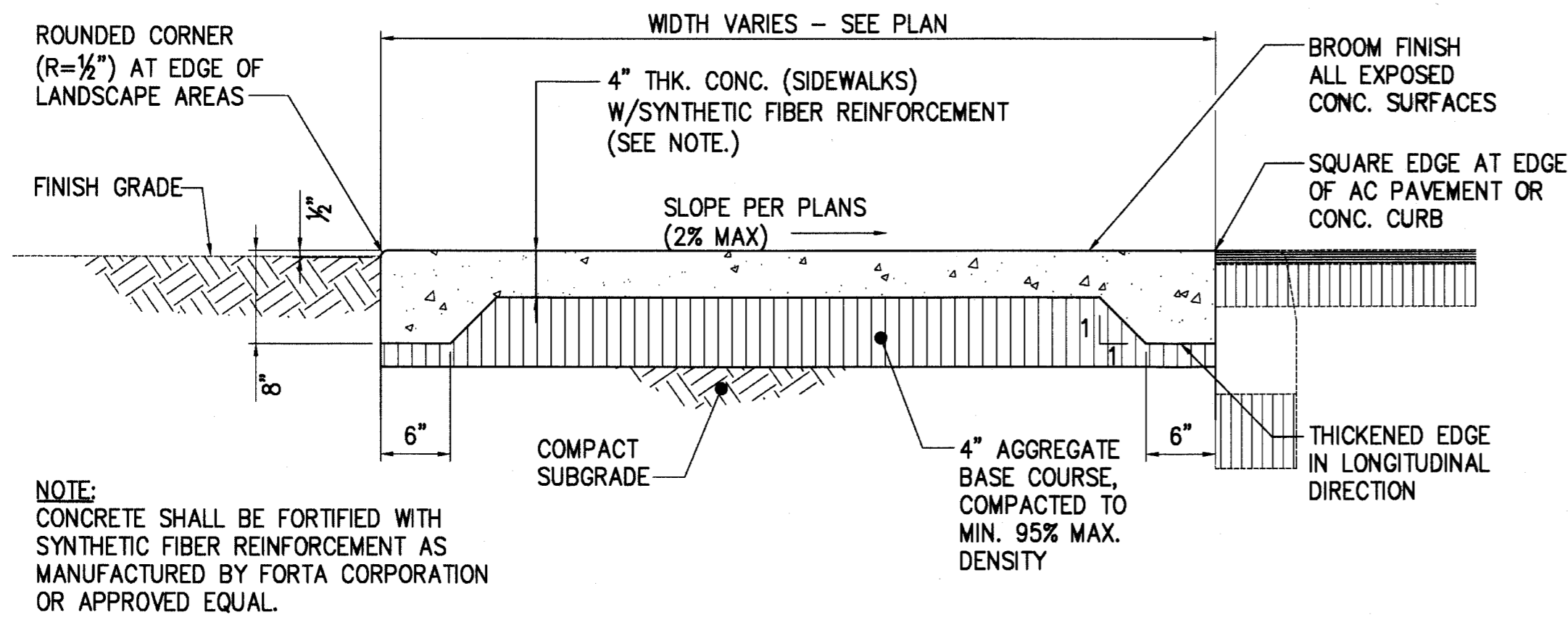
**1 CONCRETE CURB & AC PAVEMENT**  
C7.04 NOT TO SCALE



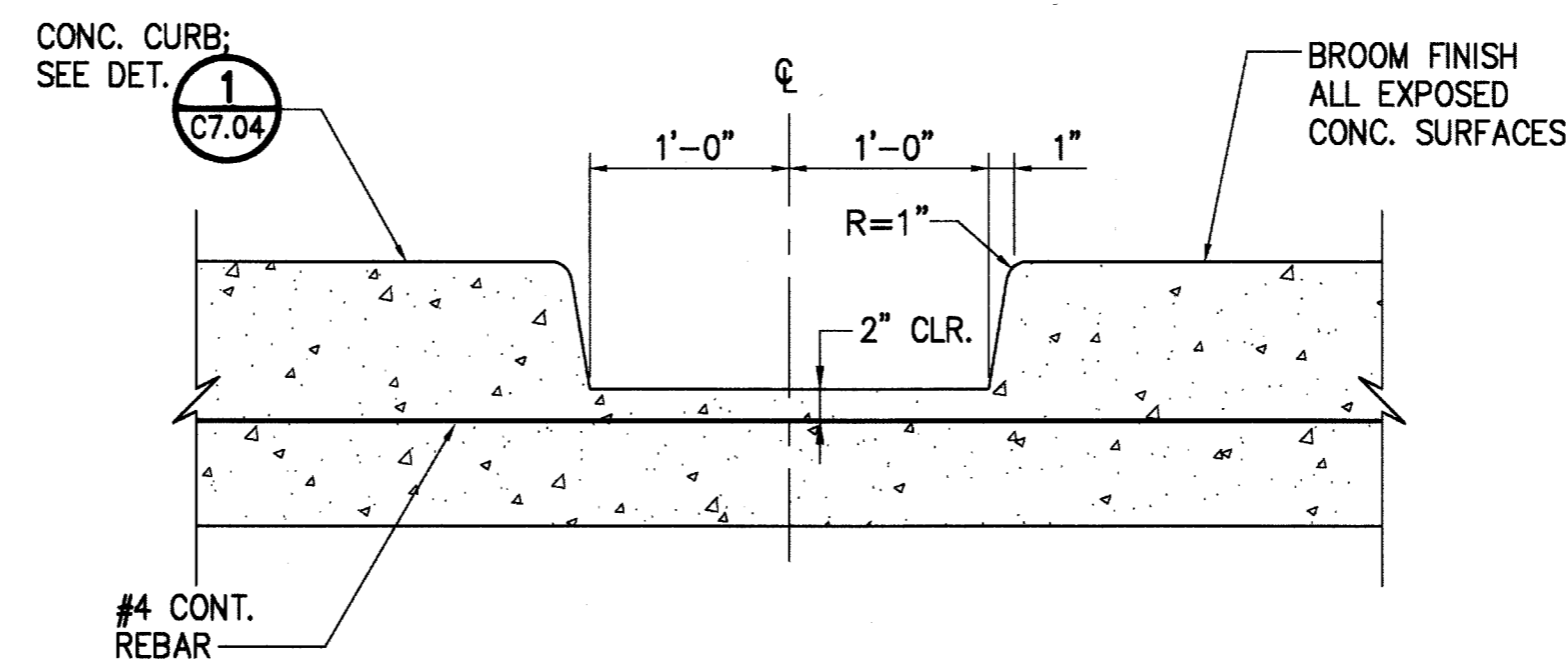
**2 CONCRETE PAVEMENT**  
C7.04 NOT TO SCALE



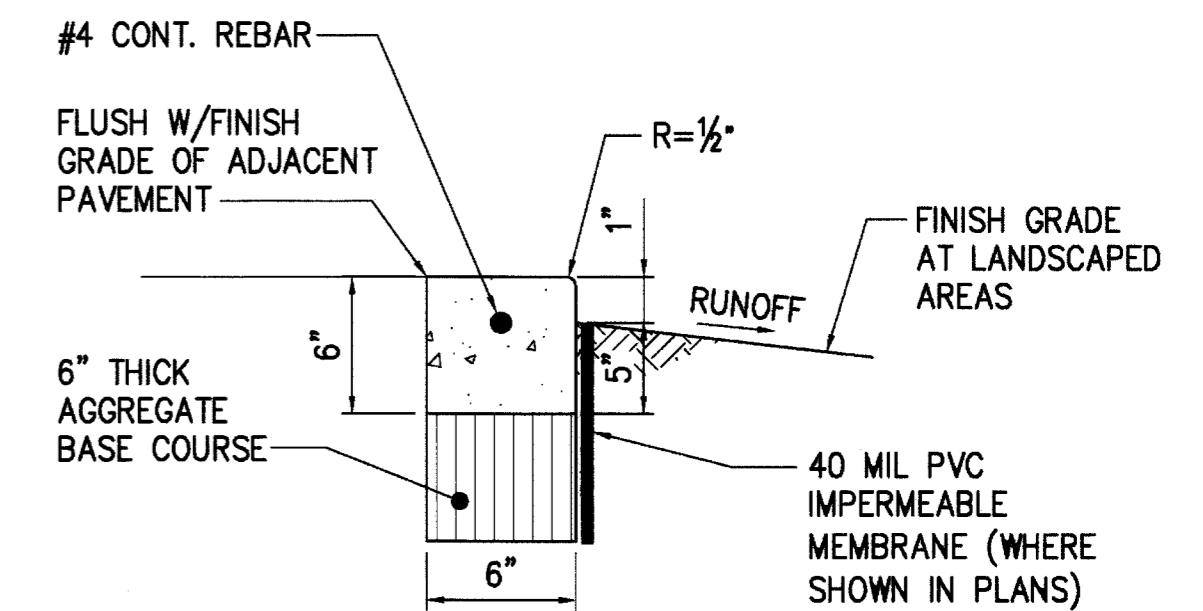
**3 SMOOTH RIDING CONNECTION DETAIL**  
C7.04 NOT TO SCALE



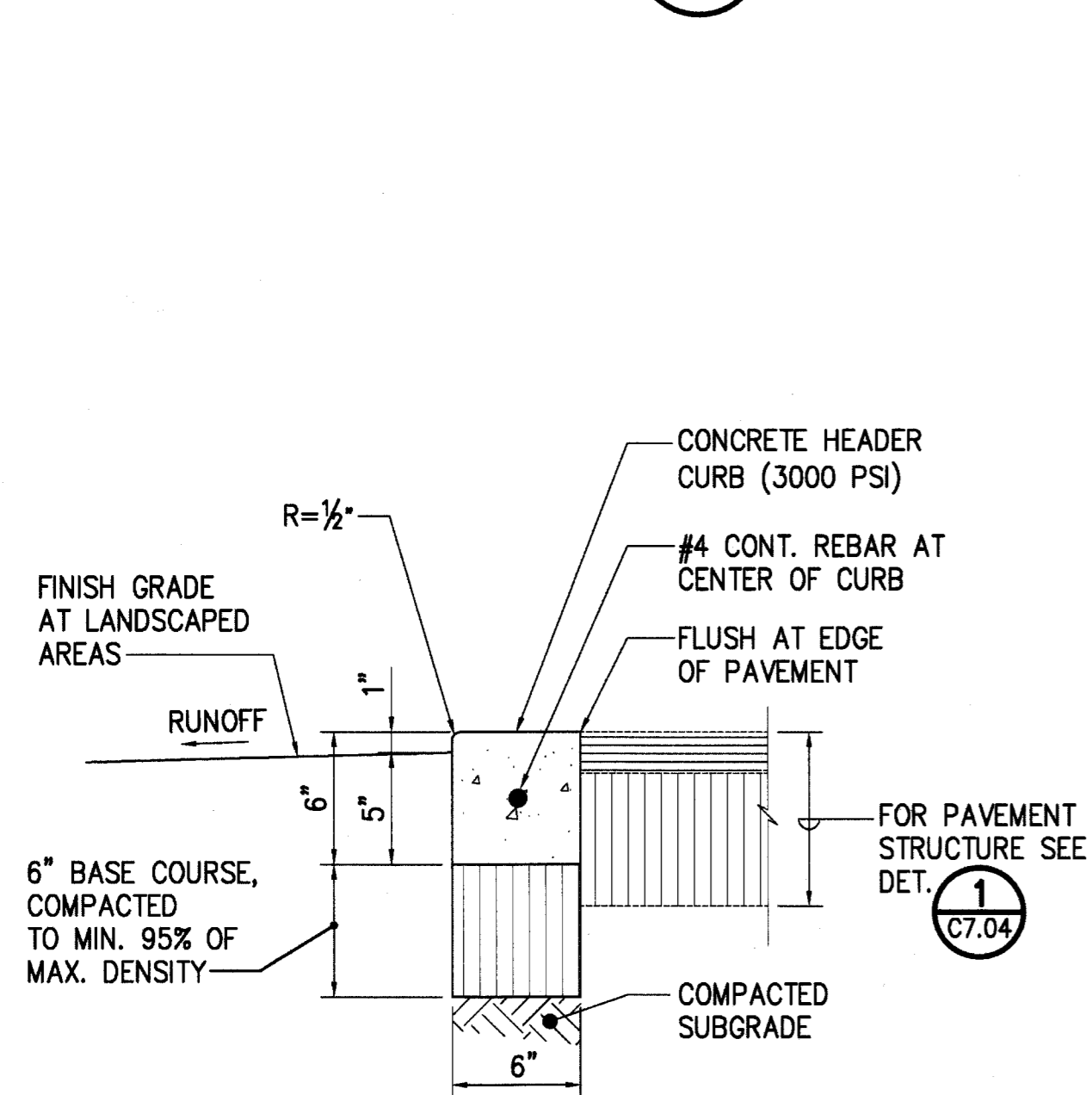
**4 CONC. SIDEWALK DETAIL**  
C7.04 NOT TO SCALE



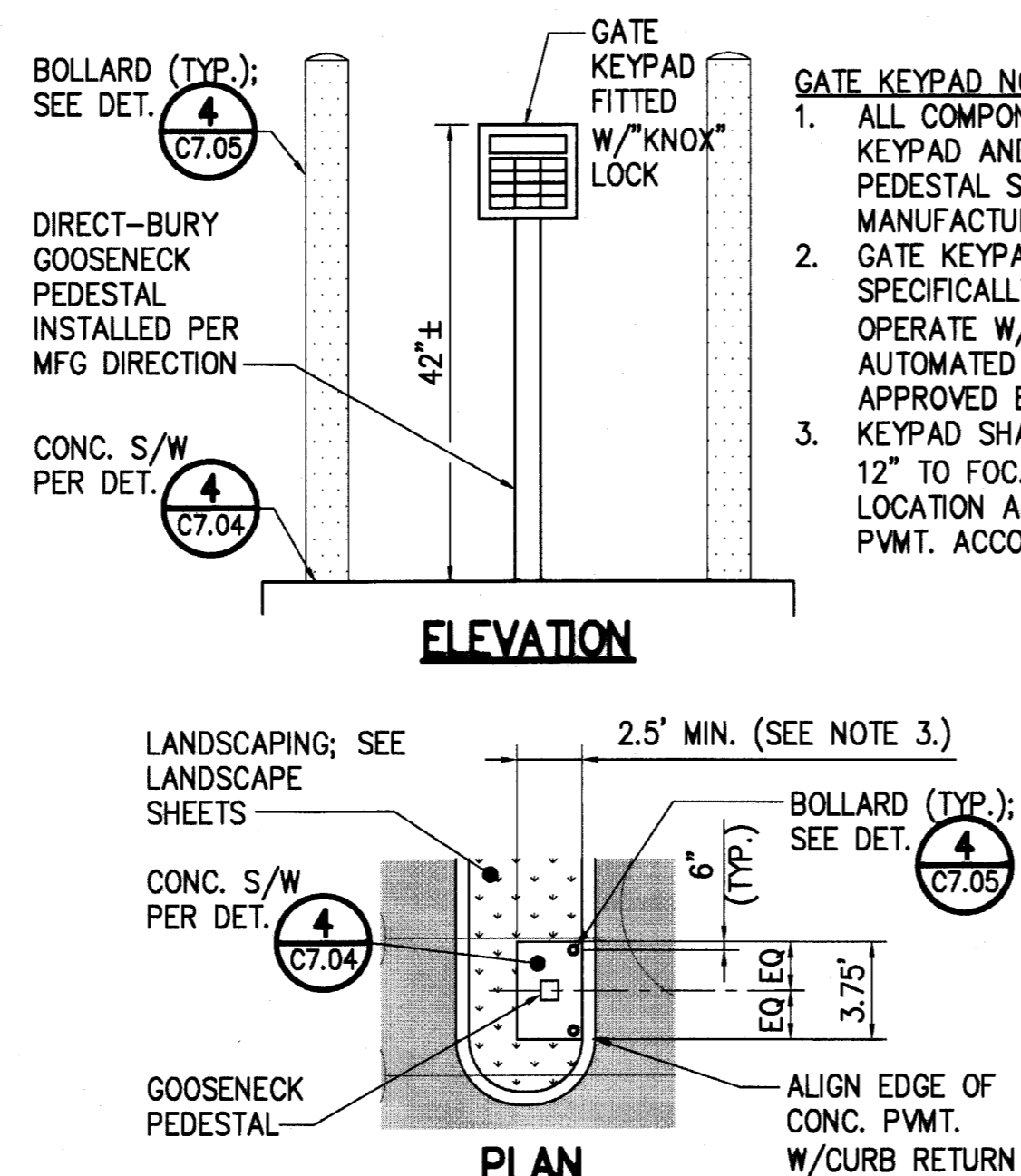
**ELEVATION**



**SECTION**



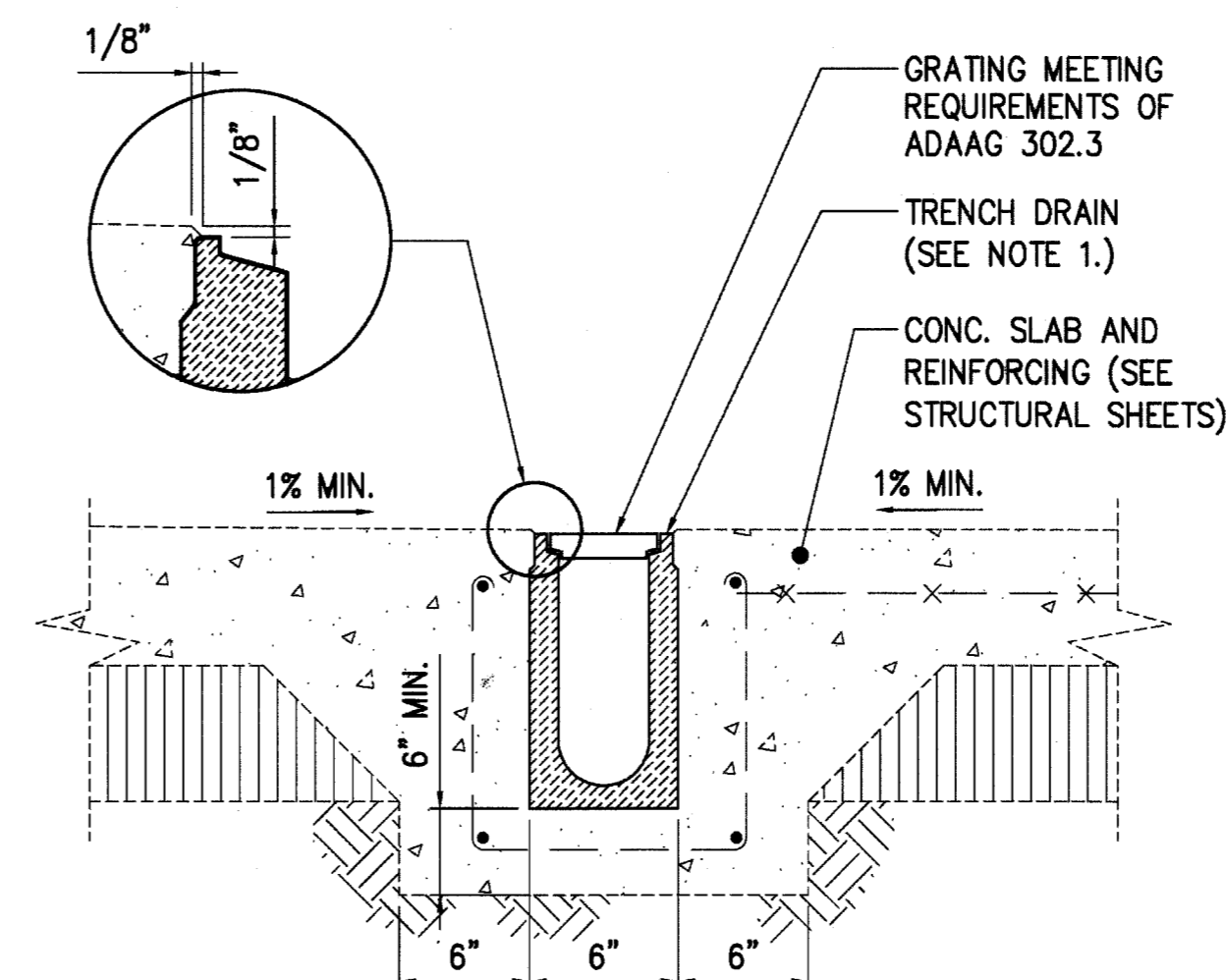
**6 CONCRETE HEADER DETAIL**  
C7.04 NOT TO SCALE



**7 GATE KEYPAD DETAIL**  
C7.04 NOT TO SCALE

- GATE KEYPAD NOTES:**
1. ALL COMPONENTS OF THE GATE KEYPAD AND GOOSENECK PEDESTAL SHALL BE FROM ONE MANUFACTURER.
  2. GATE KEYPAD SHALL BE SPECIFICALLY MANUFACTURED TO OPERATE W/THE SELECTED AUTOMATED GATE OPERATOR AS APPROVED BY THE ENGINEER.
  3. KEYPAD SHALL NOT BE LESS THAN 12" TO FOC.; ADJUST PEDESTAL LOCATION AND DEPTH OF CONC. PVMT. ACCORDINGLY.

**5 CURB BREAK DETAIL**  
C7.04 NOT TO SCALE

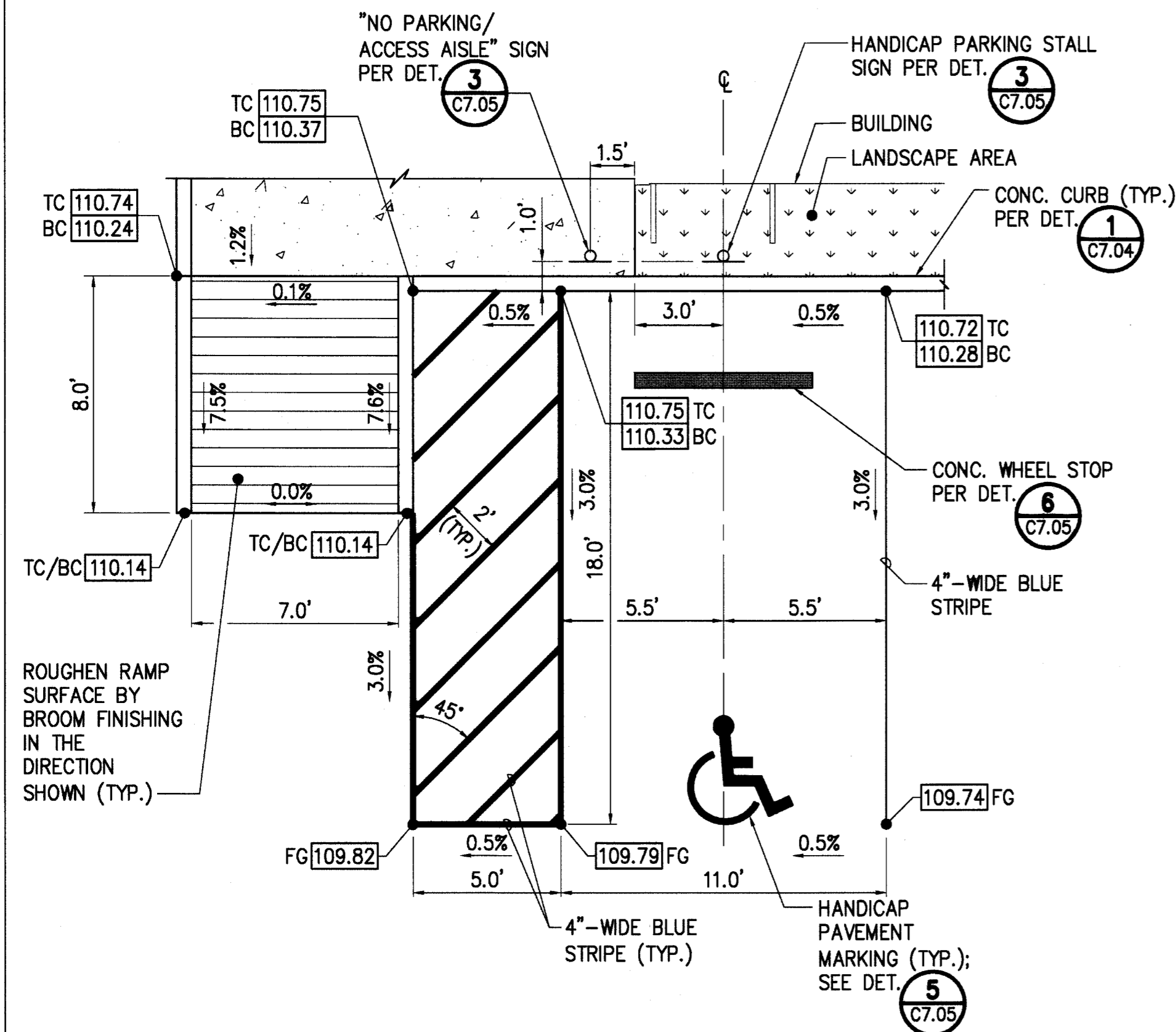


**8 TRENCH DRAIN DETAIL**  
C7.04 NOT TO SCALE

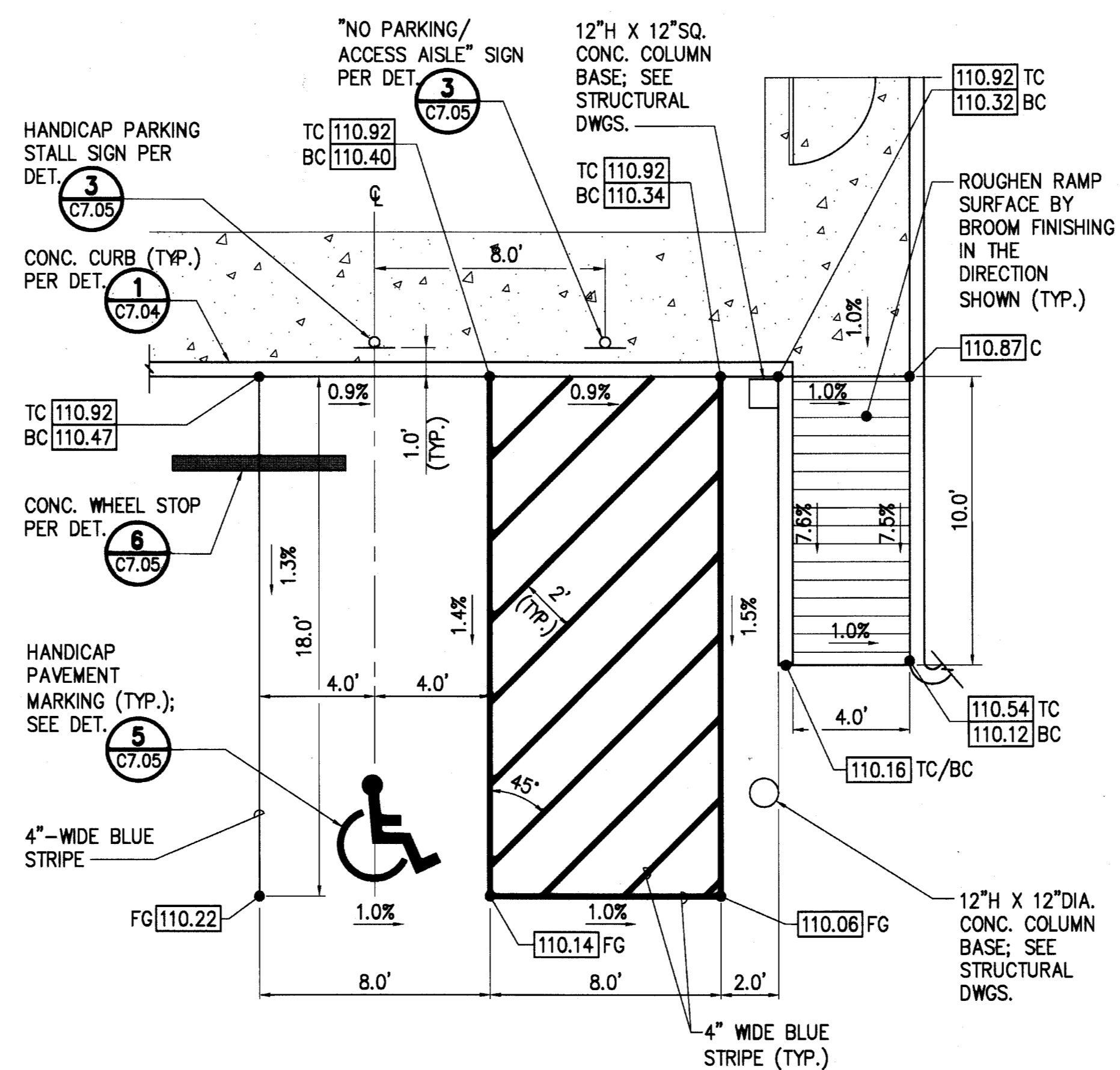
- TRENCH DRAIN NOTES:**
1. ALL COMPONENTS OF THE TRENCH DRAIN AND GRATING SHALL BE PRE-ENGINEERED AND BE FROM ONE MANUFACTURER (ACO S100K POWER DRAIN OR APPROVED EQUAL).
  2. SEE GRADING AND DRAINAGE PLAN FOR ADDITIONAL INFORMATION.

| REVISION NO.                                                                        | SYM.                                 | DESCRIPTION | SHT./OF | DATE        | APPROVED          |
|-------------------------------------------------------------------------------------|--------------------------------------|-------------|---------|-------------|-------------------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION |                                      |             |         |             |                   |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                          |                                      |             |         |             |                   |
| DETAILS - 5                                                                         |                                      |             |         |             |                   |
| DESIGNED:                                                                           | Y.T.                                 | SUBMITTED:  | gsw     | DATE:       | 03/15/2016        |
| DRAWN:                                                                              | Y.T.                                 | CHECKED:    | Y.T.    | SCALE:      | AS SHOWN          |
| APPROVED:                                                                           | <i>[Signature]</i><br>CHIEF ENGINEER |             | DATE:   | MAR 23 2016 | DRAWING NO. C7.04 |

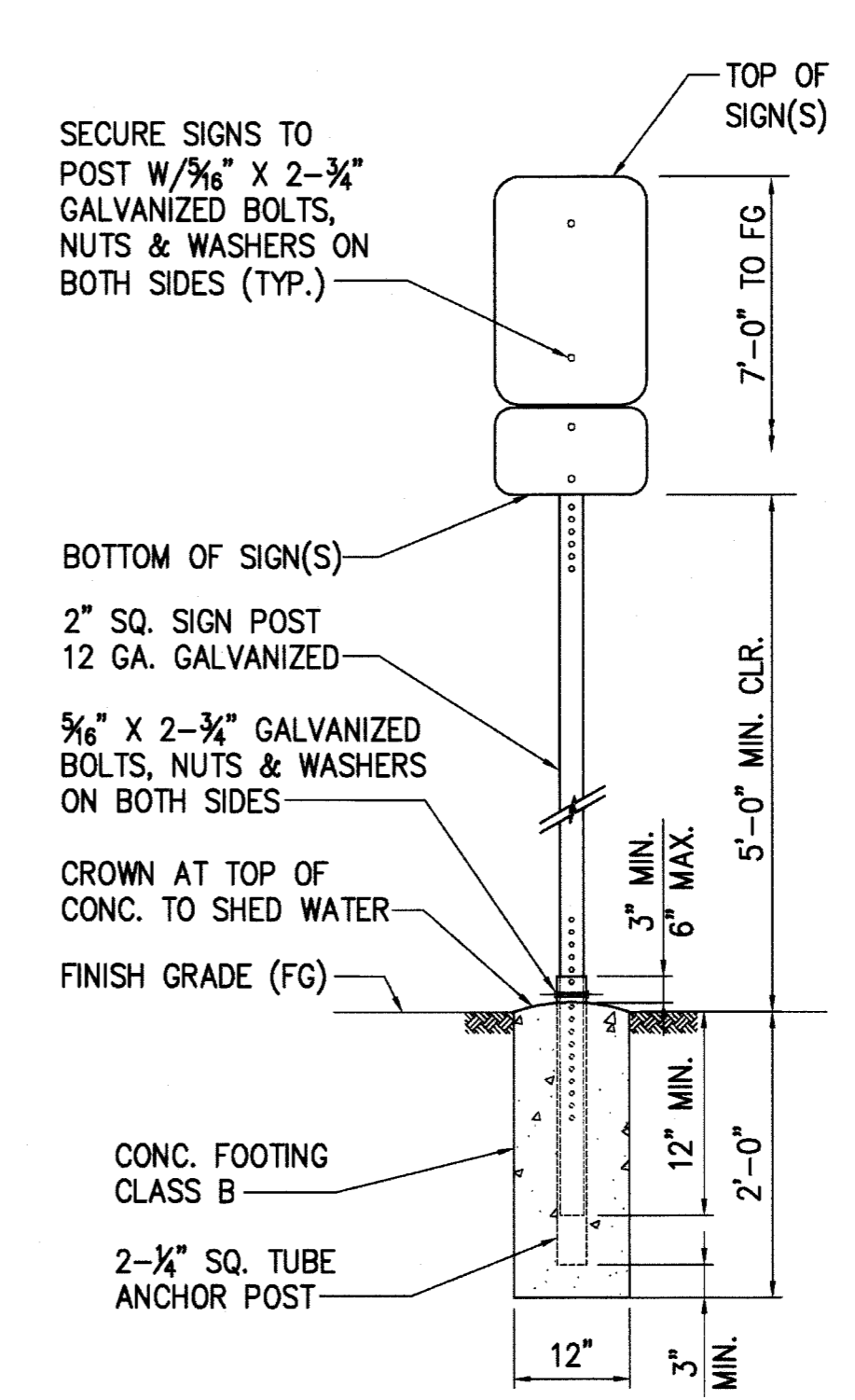
L:\PROJECTS\63 - DLNR\16304 - Maui Admin. Bldg\DESIGN\DRAWING\DETAILS.dwg - 2/29/2016 2:43 PM



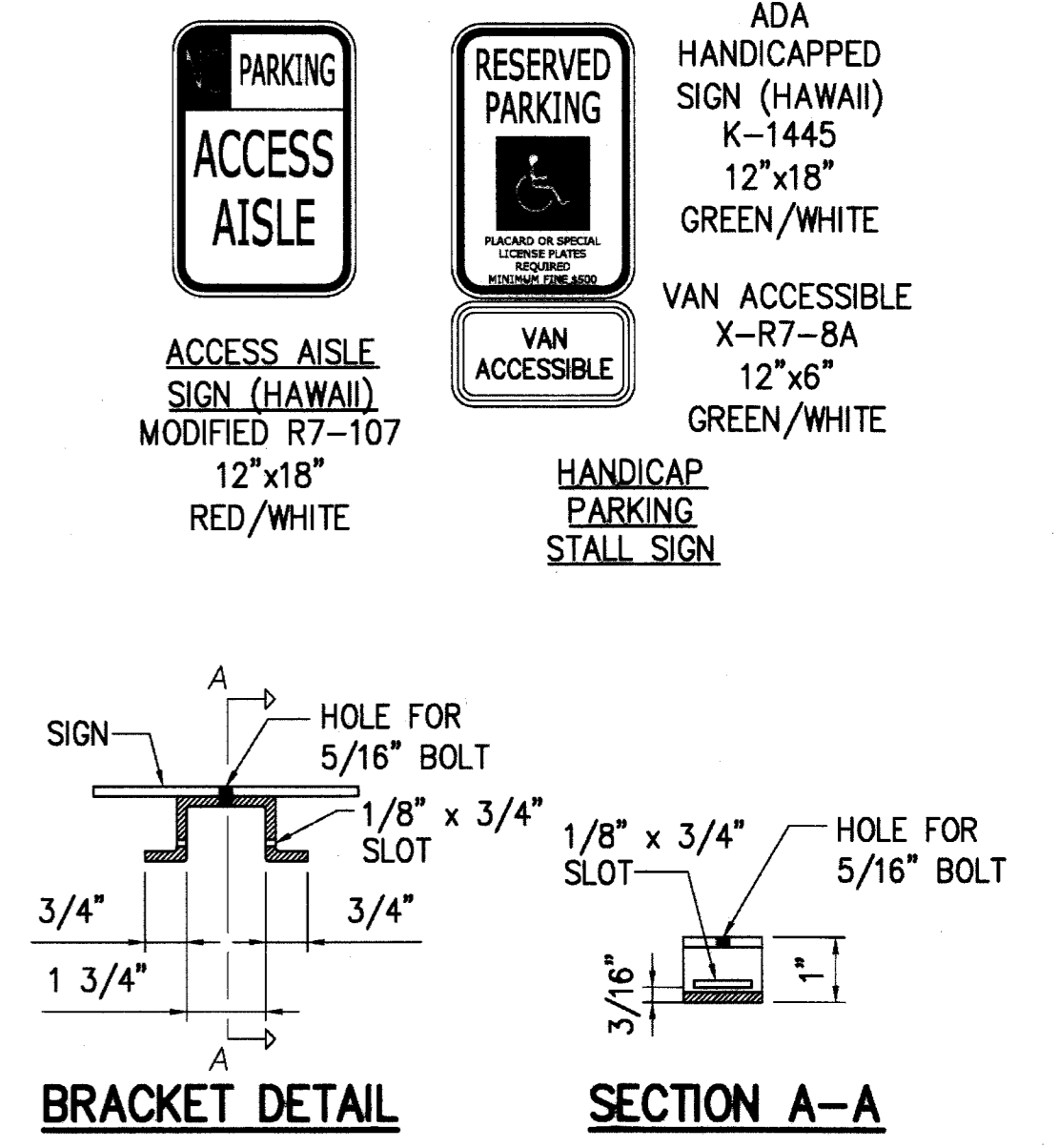
**1 HANDICAP PARKING AND RAMPS DETAIL**  
SCALE: 1/4" = 1'-0"



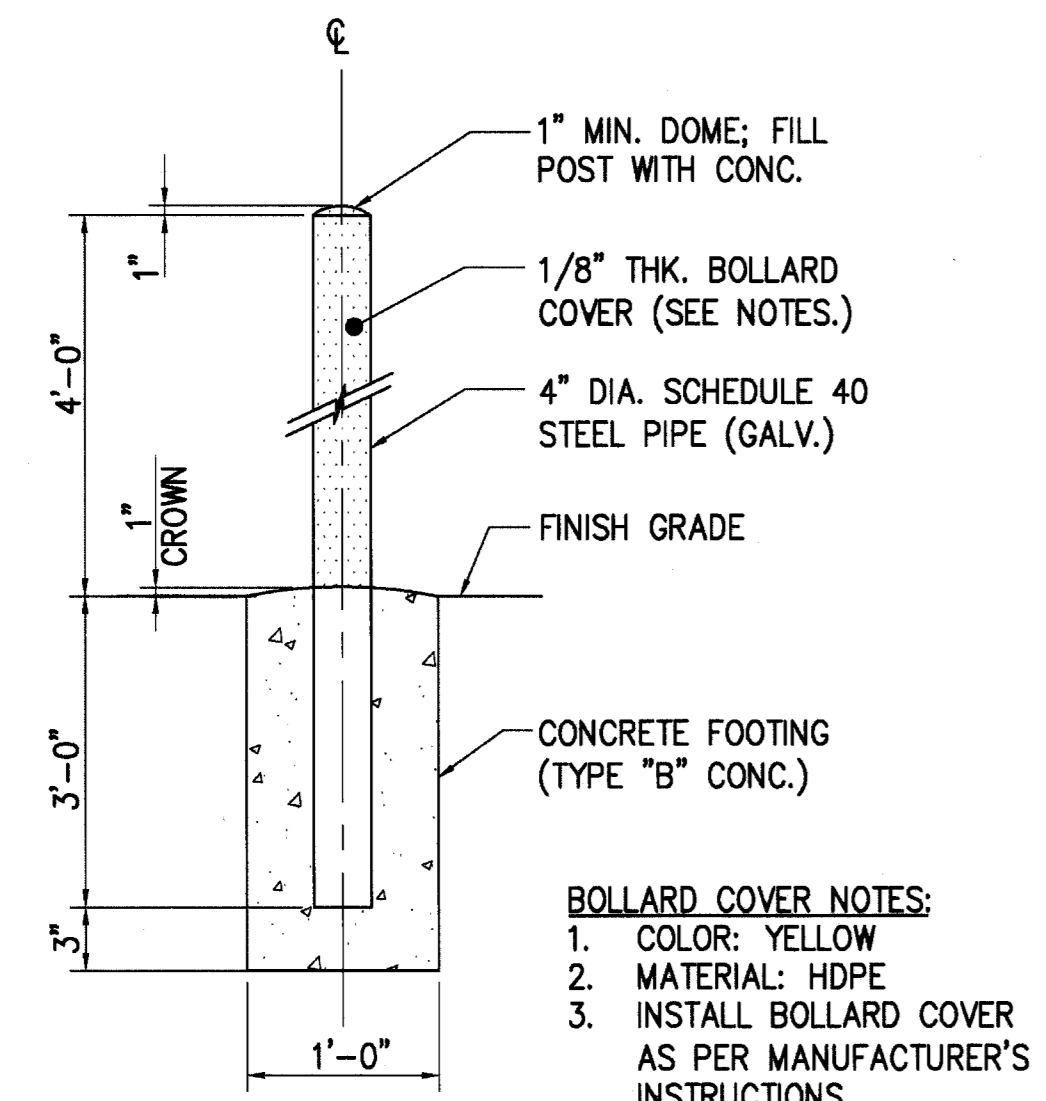
**2 HANDICAP PARKING AND RAMP DETAIL**  
SCALE: 1/4" = 1'-0"



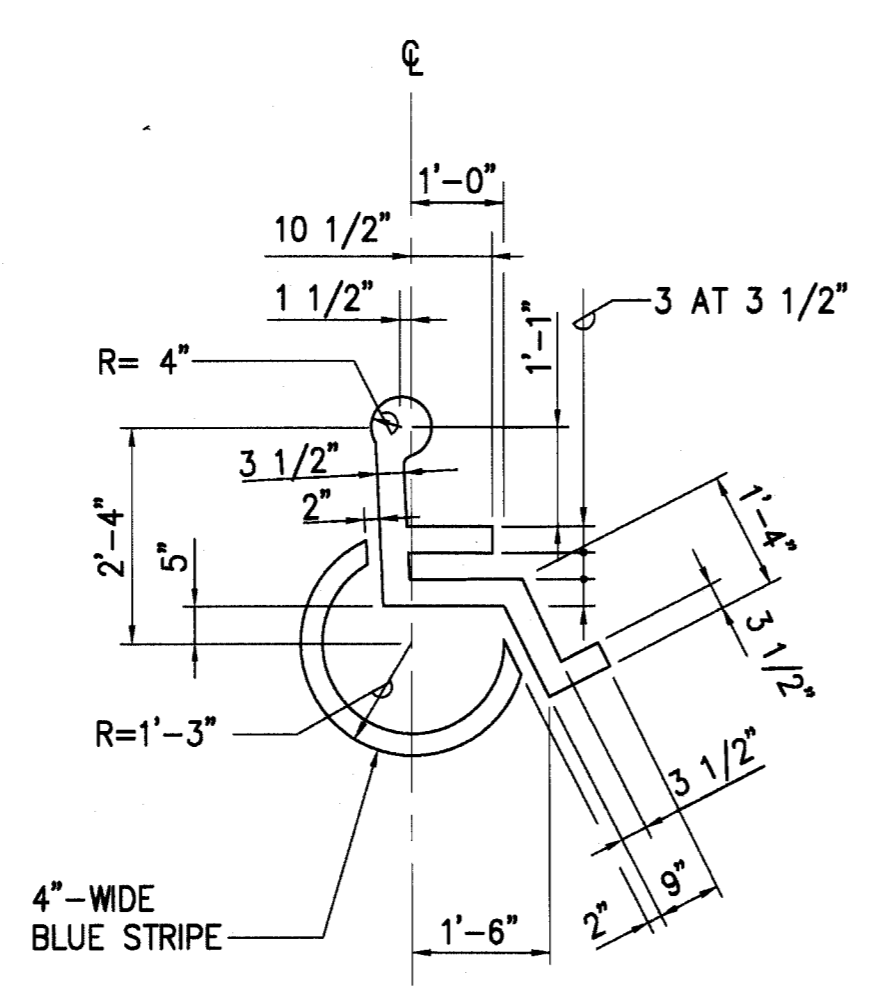
**3 HANDICAP PARKING SIGN DETAIL**  
SCALE: 1/4" = 1'-0"



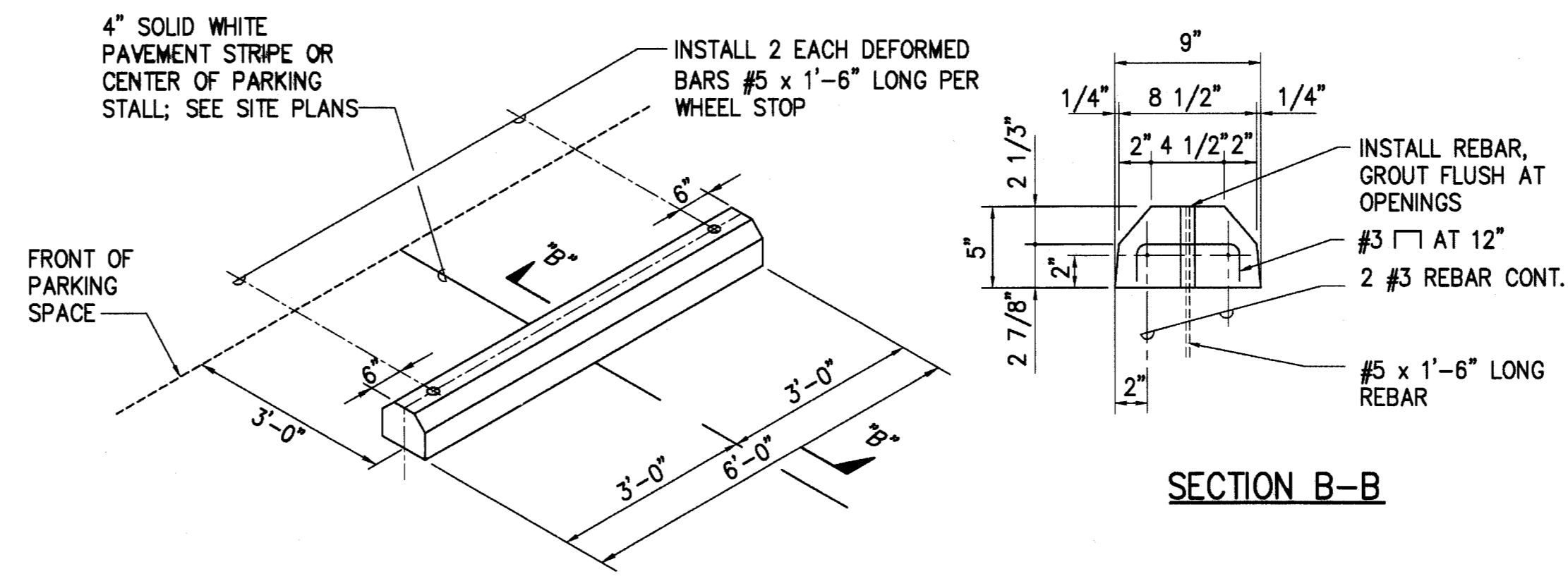
**SIGNAGE NOTES:**  
1. SIGNS SHALL BE ALUM T6061 SHEET COVERED WITH ENGINEERING GRADE REFLECTIVE SHEETING.  
2. SQUARE TUBING SIGN POST SHALL BE TELESCOPING TYPE WITH 7/16" DIA. HOLES AT 1" O.C. ON FOUR SIDES.



**4 BOLLARD DETAIL**  
NOT TO SCALE

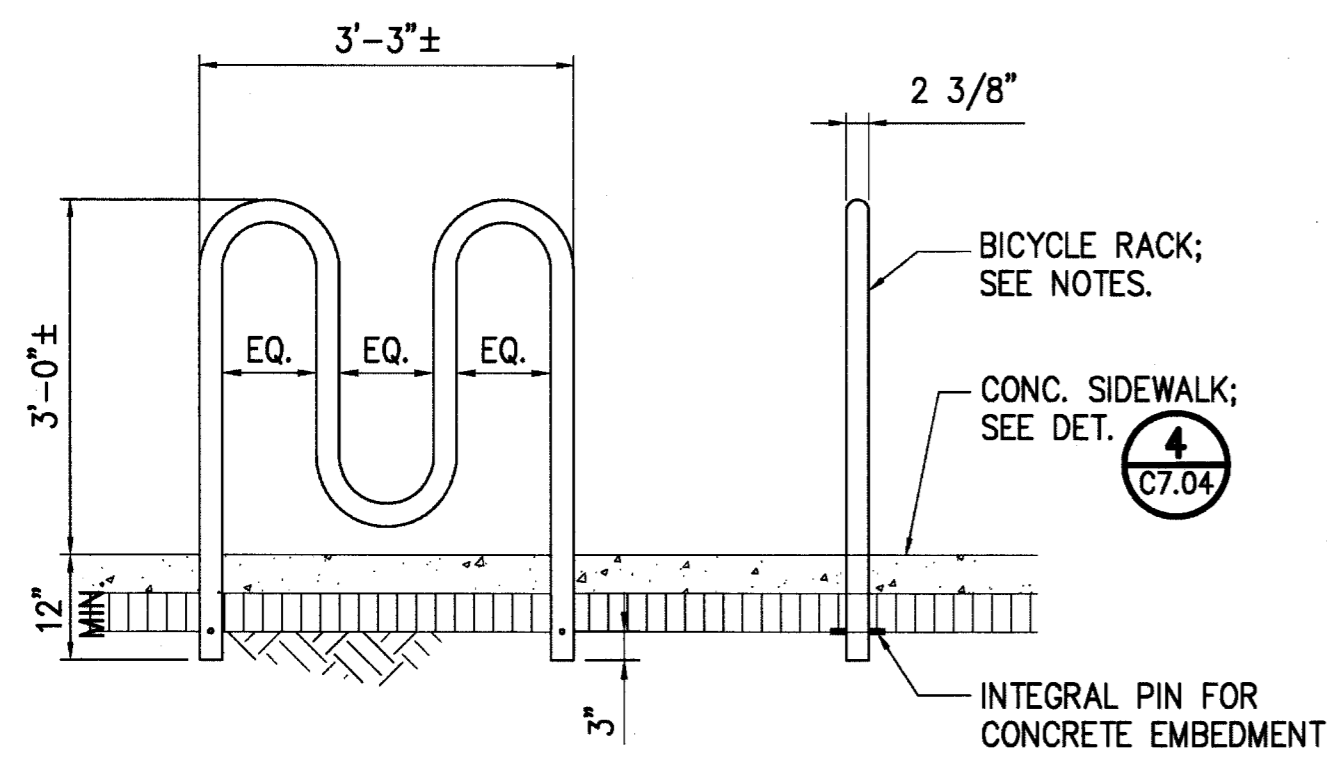


**5 HANDICAP PAVEMENT MARKING DETAIL**  
NOT TO SCALE



**6 CONCRETE WHEEL STOP DETAIL**  
NOT TO SCALE

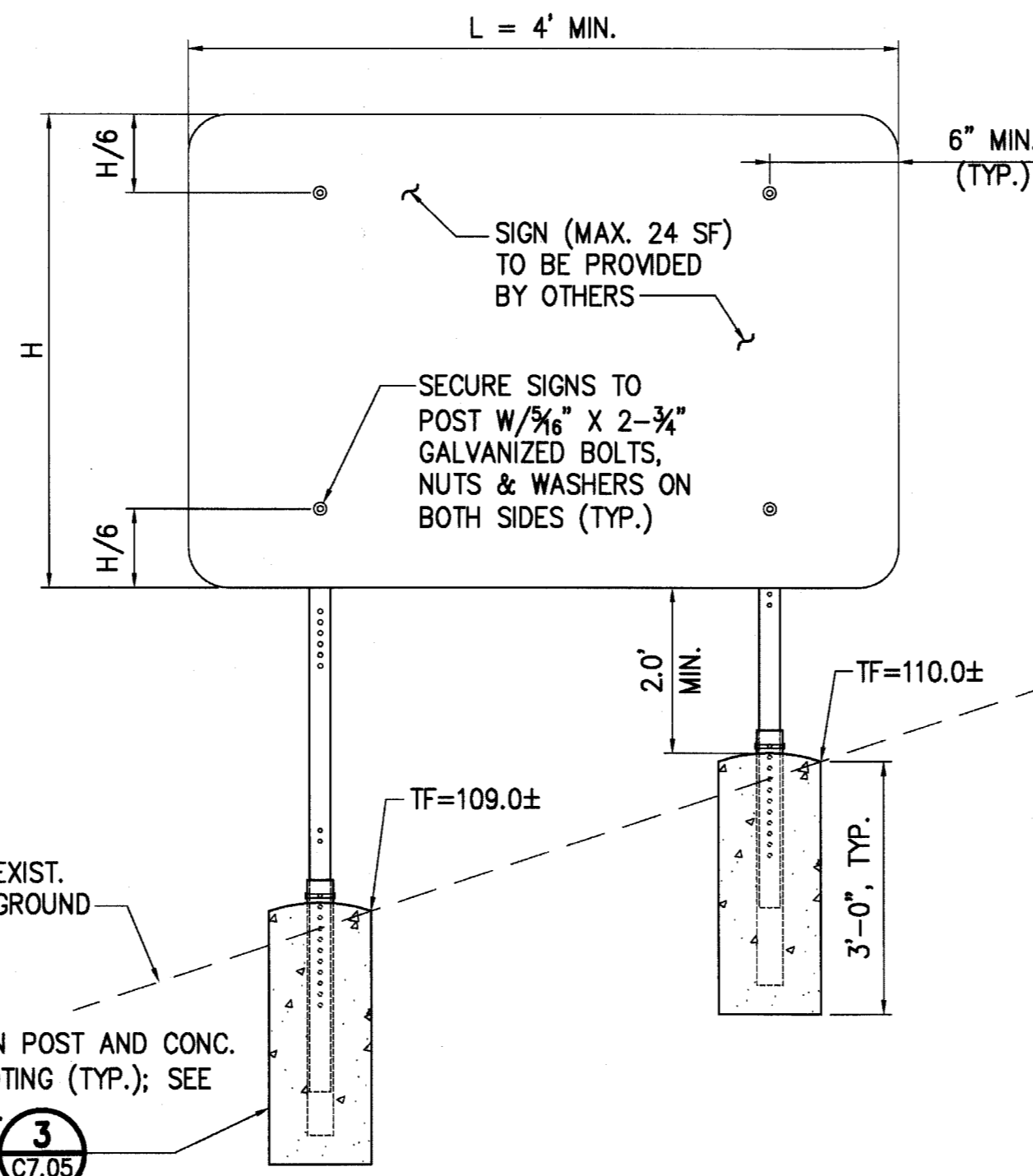
| REVISION NO.                                                                                                        | SYM.                                                                               | DESCRIPTION | SHT./OF     | DATE | APPROVED             |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------|-------------|------|----------------------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION                                 |                                                                                    |             |             |      |                      |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                                                          |                                                                                    |             |             |      |                      |
| DETAILS - 6                                                                                                         |                                                                                    |             |             |      |                      |
| DESIGNED:                                                                                                           | YT                                                                                 | SUBMITTED:  | GP          |      |                      |
| DRAWN:                                                                                                              | YT                                                                                 | DATE:       | 03/15/2016  |      |                      |
| CHECKED:                                                                                                            | YT                                                                                 | SCALE:      | AS SHOWN    |      |                      |
| APPROVED:                                                                                                           | YVONNE M. TURCO<br>LICENSED PROFESSIONAL ENGINEER<br>No. 11144-C<br>HAWAII, U.S.A. |             | MAR 23 2016 |      | DRAWING NO.<br>C7.05 |
| THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. |                                                                                    |             |             |      |                      |



**ELEVATION** **PROFILE**

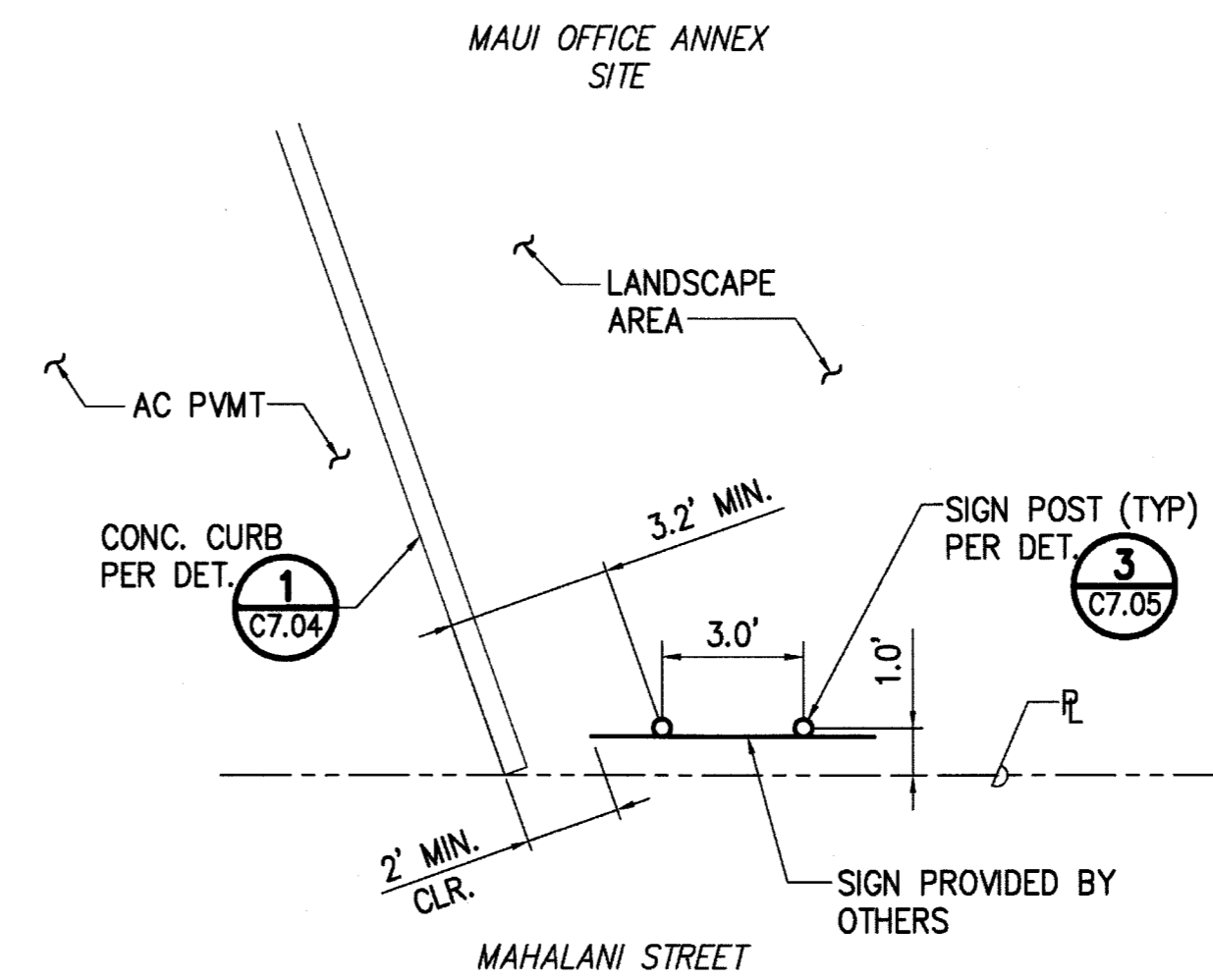
**1 BICYCLE RACK DETAIL**  
C7.06 NOT TO SCALE

- BICYCLE RACK NOTES:**
- 2"± O.D. 316 STAINLESS STEEL TUBING.
  - MODEL R-8239-EM-SS, MANUFACTURED BY RELIANCE FOUNDRY CO. LTD. OR APPROVED EQUAL.

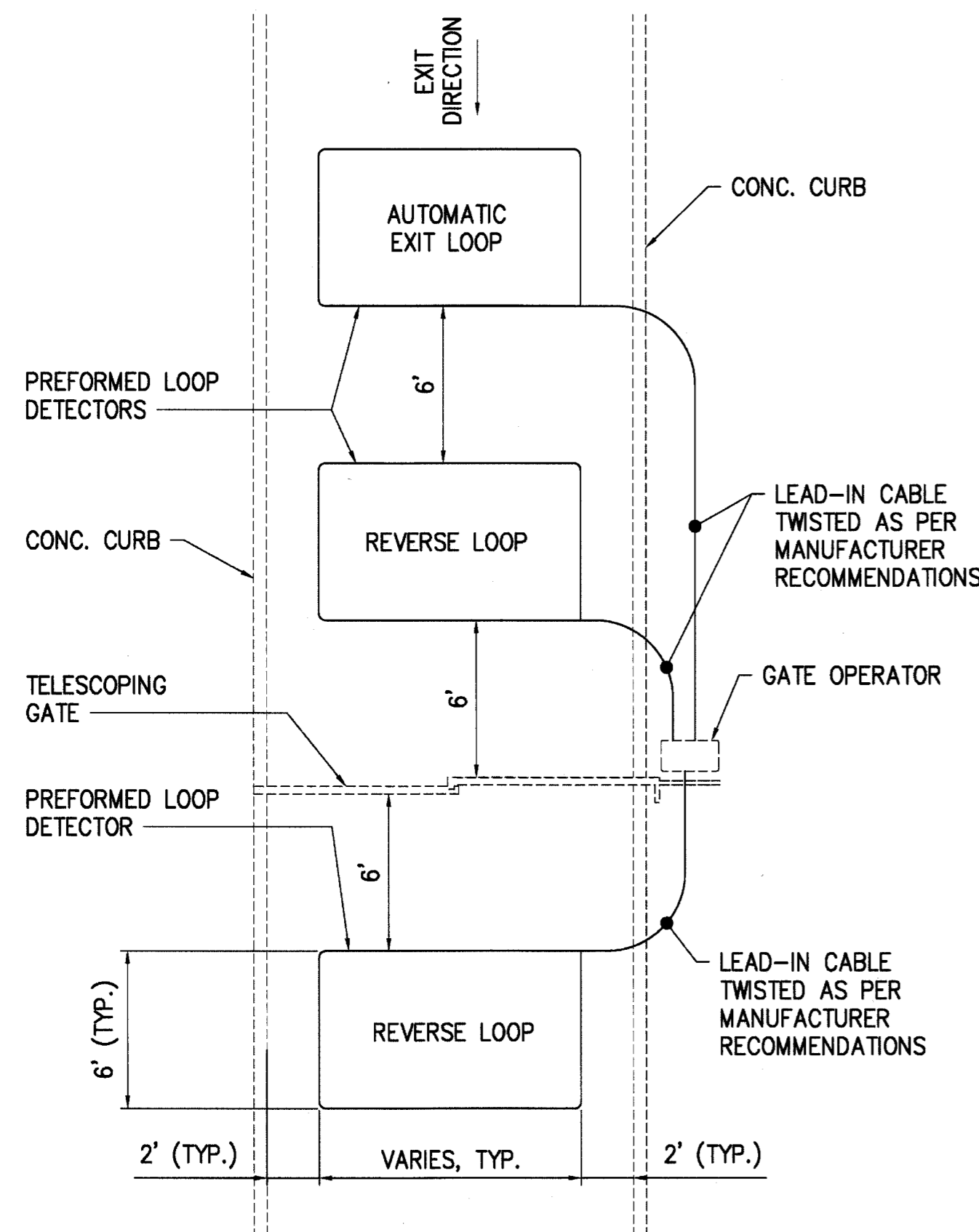


**ELEVATION**

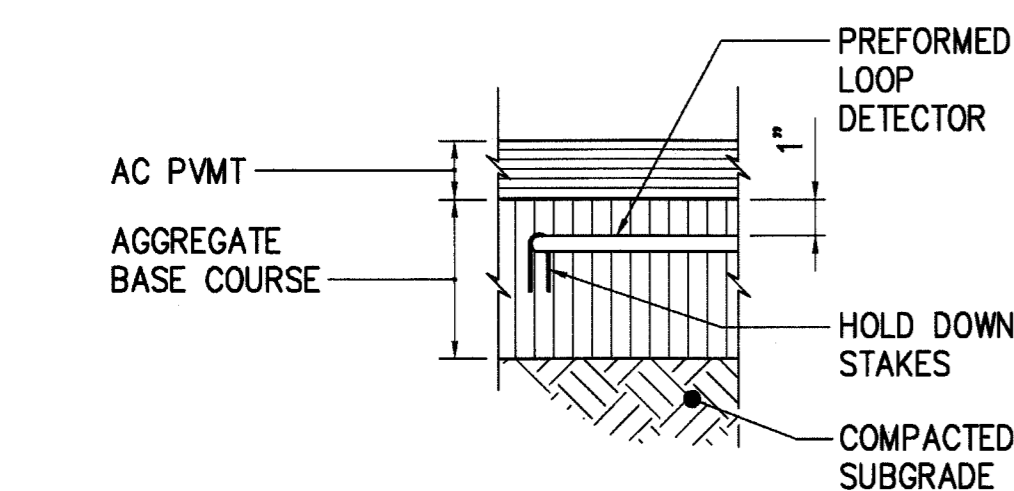
**2 ENTRY SIGN DETAIL**  
C7.06 NOT TO SCALE



**PLAN**

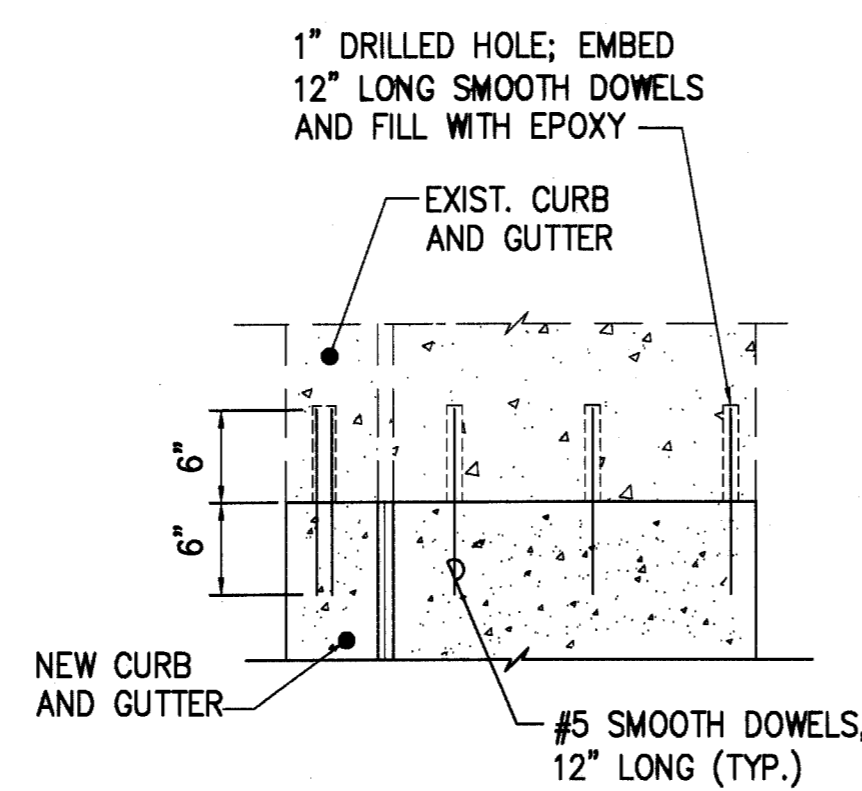


**PLAN**



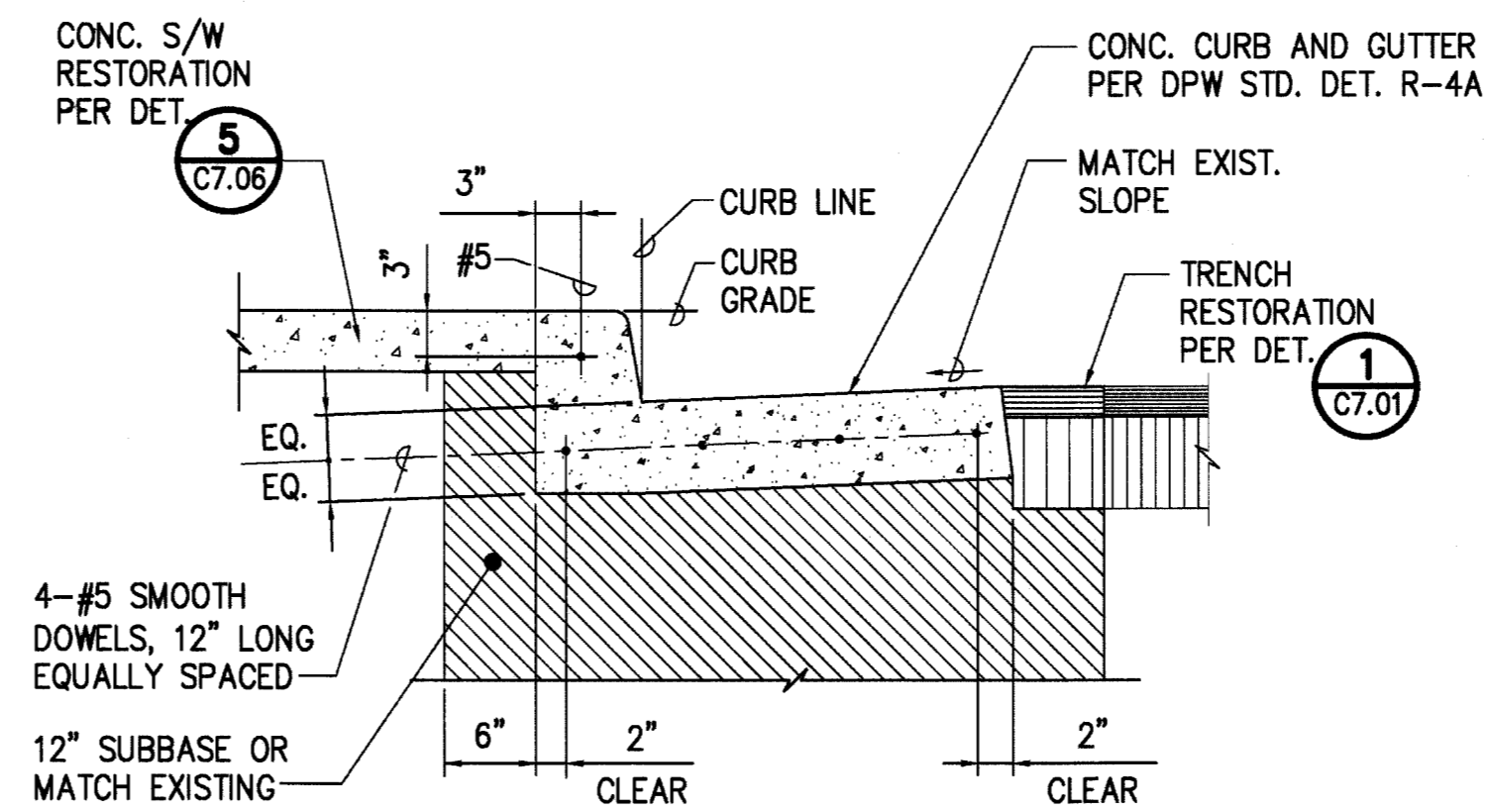
**SECTION**

**3 TYPICAL SENSOR LOOP DETAIL**  
C7.06 NOT TO SCALE

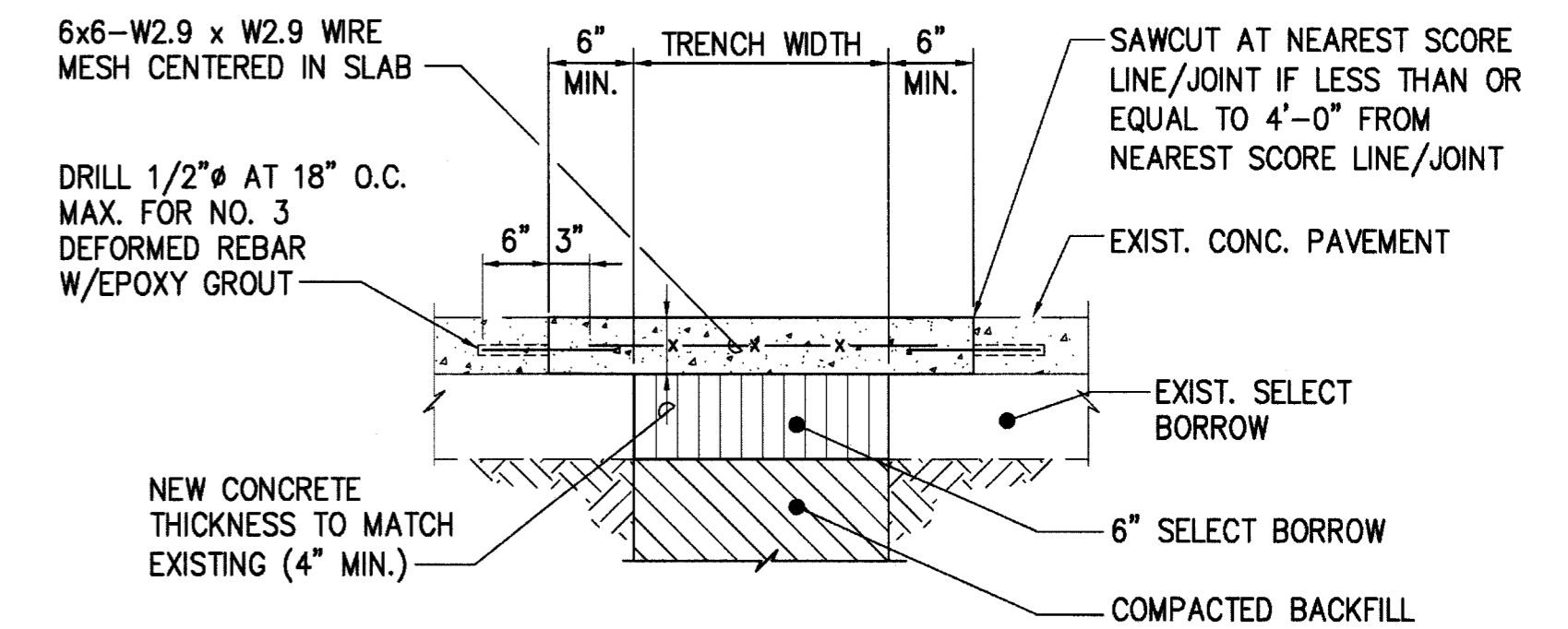


**PLAN**

**4 CONCRETE CURB AND GUTTER RESTORATION DETAIL**  
C7.06 SCALE: 1"=1'-0"



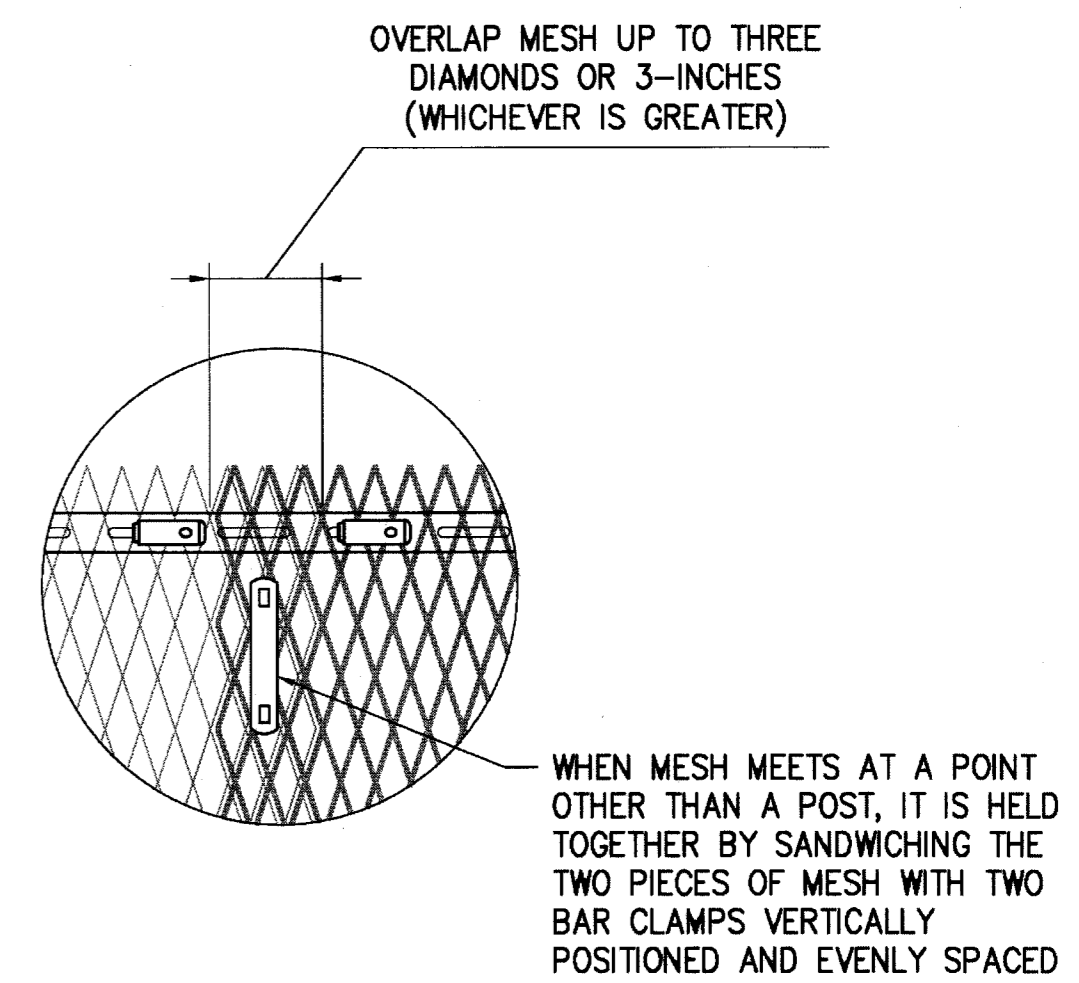
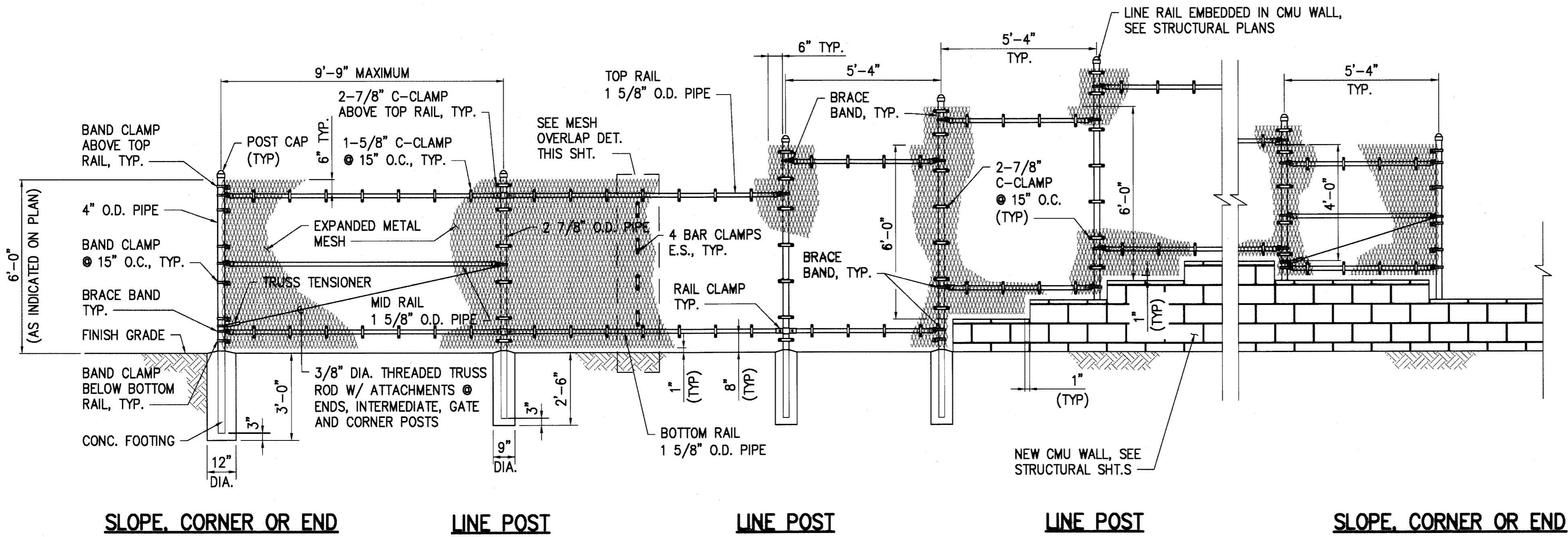
**SECTION**



**5 CONCRETE SIDEWALK RESTORATION DETAIL**  
C7.06 SCALE: 1"=1'-0"

| REVISION NO.                                                                                                        | SYM. | DESCRIPTION             | SHT./OF      | DATE                | APPROVED |
|---------------------------------------------------------------------------------------------------------------------|------|-------------------------|--------------|---------------------|----------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION                                 |      |                         |              |                     |          |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                                                          |      |                         |              |                     |          |
| DETAILS - 7                                                                                                         |      |                         |              |                     |          |
| DESIGNED:                                                                                                           | YT   | SUBMITTED:              | ca           |                     |          |
| DRAWN:                                                                                                              | YT   | DATE:                   | 03/15/2016   |                     |          |
| CHECKED:                                                                                                            | YT   | SCALE:                  | AS SHOWN     |                     |          |
| APPROVED:                                                                                                           |      | DATE:                   |              | DRAWING NO.         |          |
| <br>YVONNE M. TURRO<br>LICENSED PROFESSIONAL ENGINEER<br>No. 11144-C<br>HAWAII, U.S.A.                              |      | 04/30/2016<br>EXP. DATE |              | MAR 23 2016<br>DATE |          |
| THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. |      |                         | <b>C7.06</b> |                     |          |

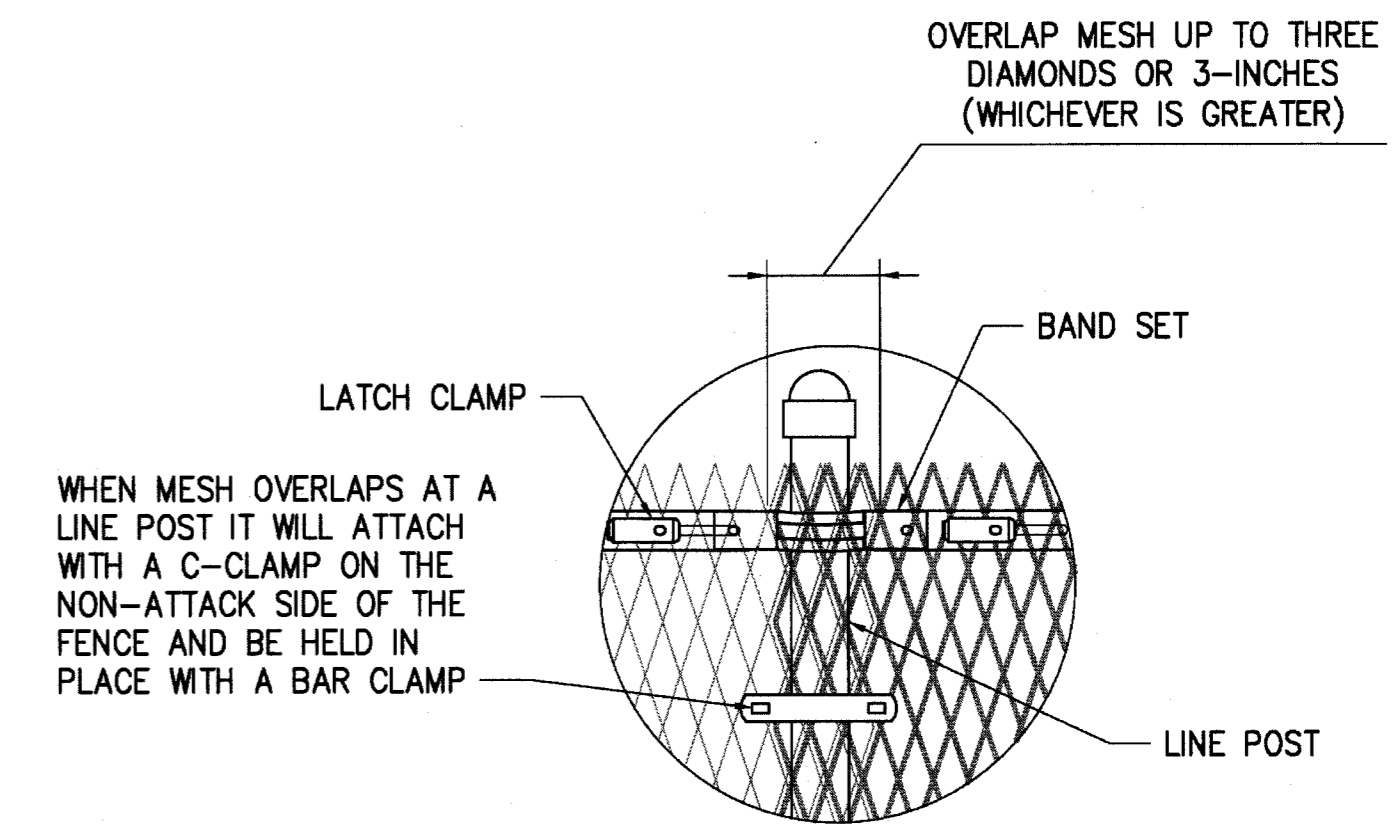




- NOTES:**
- POSTS AND BRACES SHALL BE SCHEDULE 40 (STANDARD WEIGHT) PIPE. SIZES SPECIFIED ARE OUTSIDE DIAMETER.
  - ALL FENCING MATERIAL SHALL BE GALVANIZED STEEL UNLESS OTHERWISE SPECIFIED.
  - TOP OF CONCRETE FOOTING SHALL BE CROWNED TO SHED WATER.

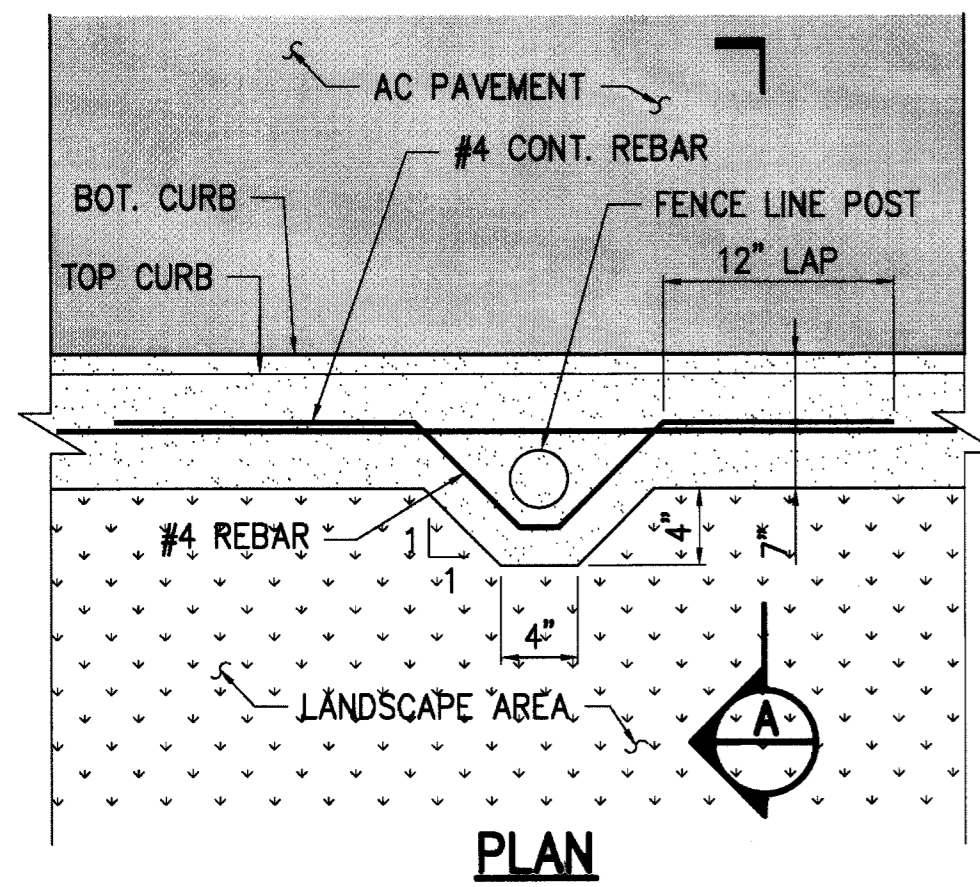
**1 TYPICAL EXPANDED METAL FENCE**  
C7.07 3/8" = 1'-0"

**MESH ATTACHES TO EACH OTHER**

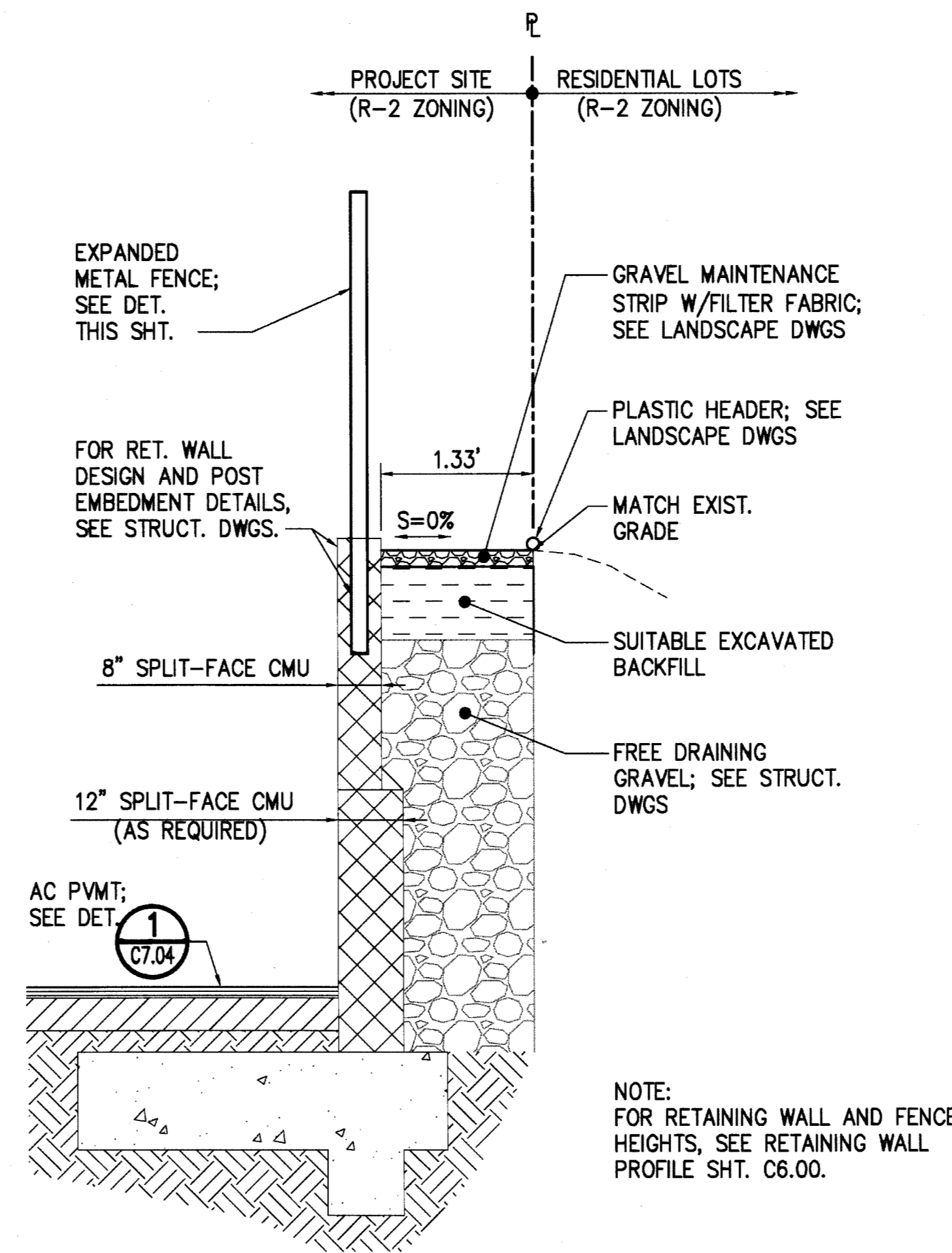
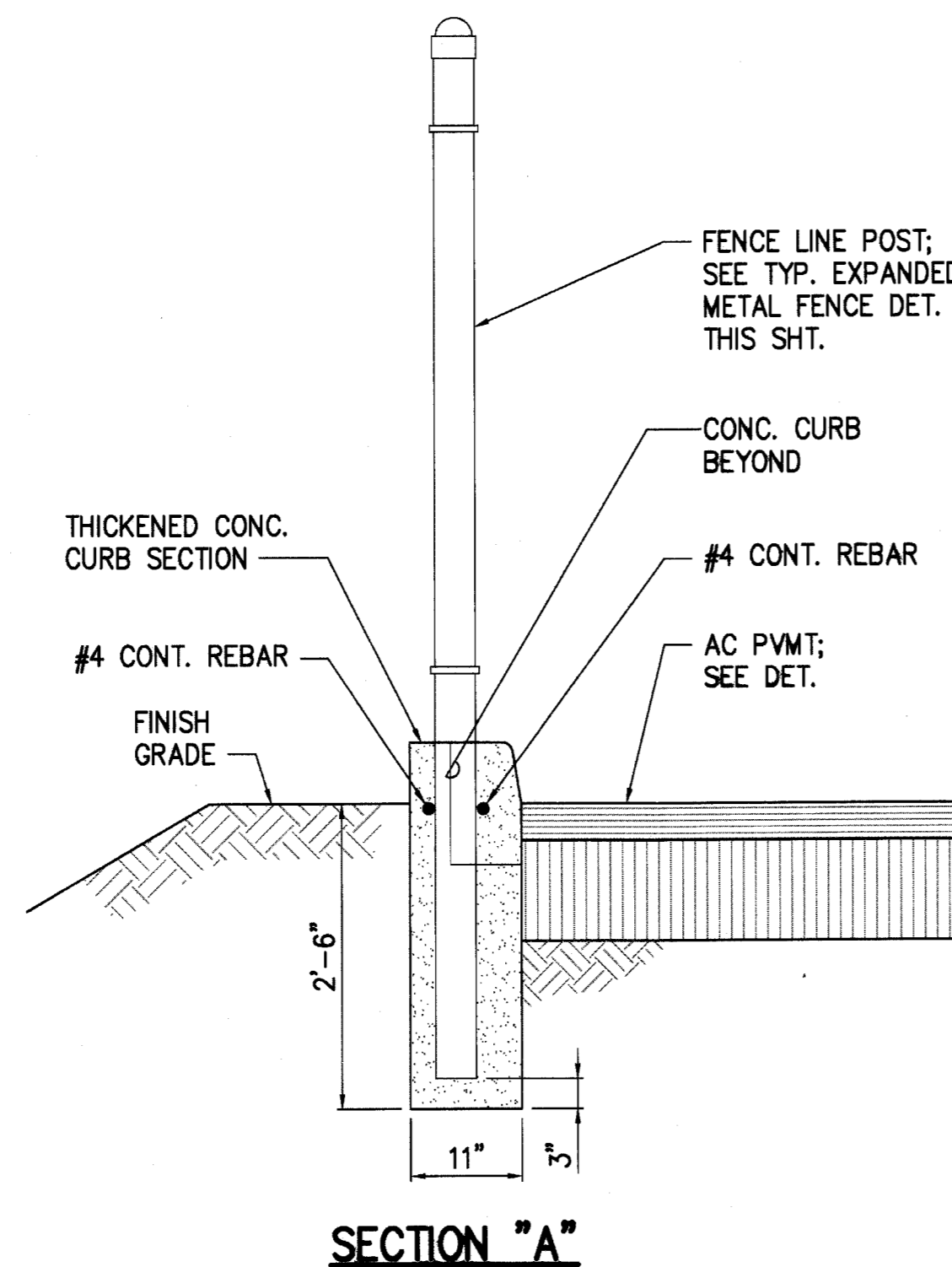


**MESH ATTACHES TO LINE POST**

**2 MESH OVERLAP DETAIL**  
C7.07 NOT TO SCALE



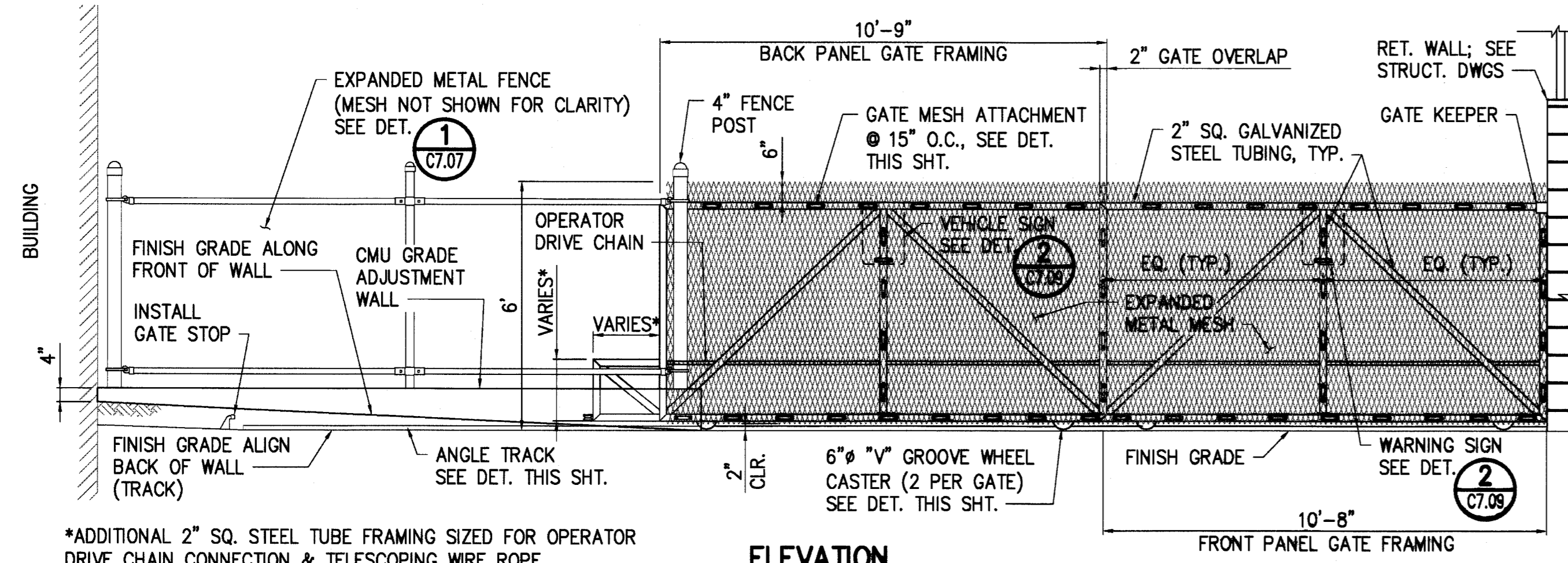
**3 FENCE POST IN CURB**  
C7.07 NOT TO SCALE



**4 RETAINING WALL DETAIL**  
C7.07 NOT TO SCALE

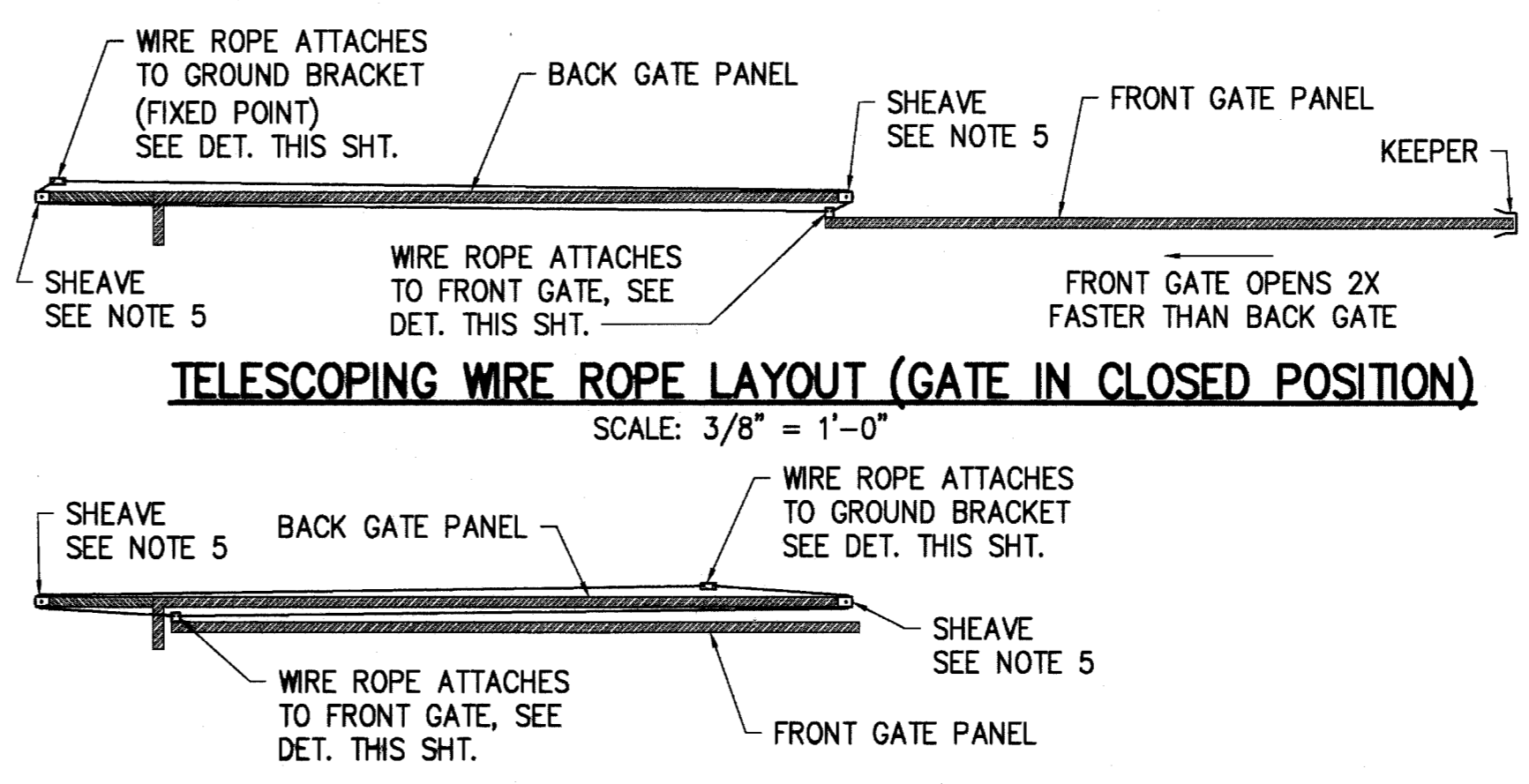
| REVISION NO.                                                                                                        | SYM. | DESCRIPTION | SHT./OF      | DATE                       | APPROVED   |
|---------------------------------------------------------------------------------------------------------------------|------|-------------|--------------|----------------------------|------------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION                                 |      |             |              |                            |            |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                                                          |      |             |              |                            |            |
| DETAILS - 8                                                                                                         |      |             |              |                            |            |
| DESIGNED:                                                                                                           | CJ   | SUBMITTED:  | an           | DATE:                      | 03/15/2016 |
| DRAWN:                                                                                                              | CJ   | CHECKED:    | YT           | SCALE:                     | AS SHOWN   |
| APPROVED:                                                                                                           |      | DATE:       |              | DRAWING NO.                |            |
|                                                                                                                     |      |             |              | <b>MAR 23 2016</b><br>DATE |            |
| THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. |      |             | <b>C7.07</b> |                            |            |

L:\PROJECTS\163 - DLN\16304 - Maui Admin Bldg\DESIGN\DRAWING\DETAILS - Diamond Fencing.dwg - 3/1/2016 6:25 PM



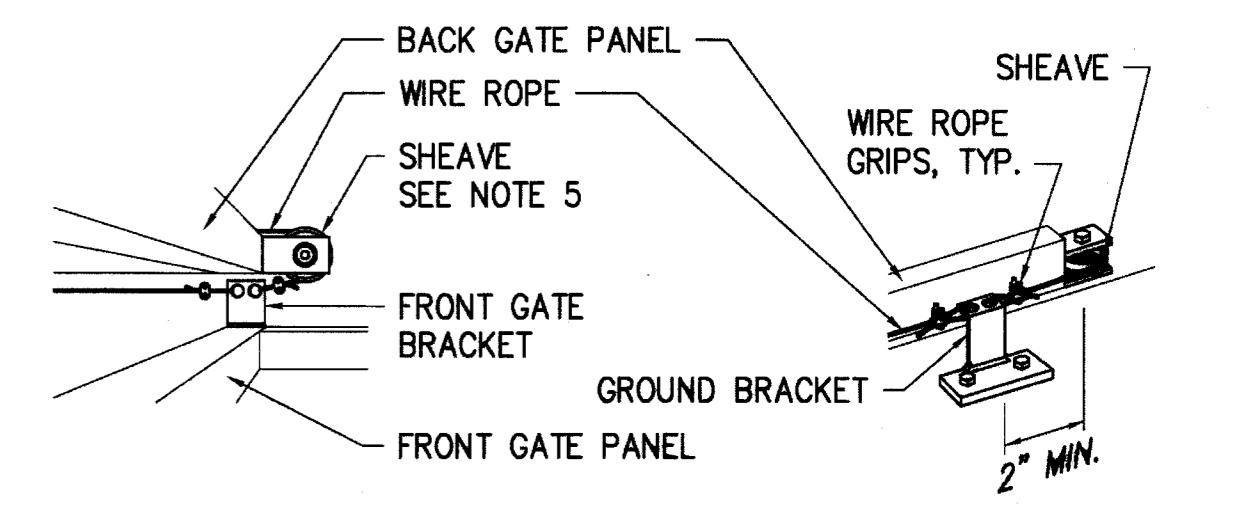
**ELEVATION**  
SCALE: 3/8" = 1'-0"

\*ADDITIONAL 2" SQ. STEEL TUBE FRAMING SIZED FOR OPERATOR DRIVE CHAIN CONNECTION & TELESCOPING WIRE ROPE.

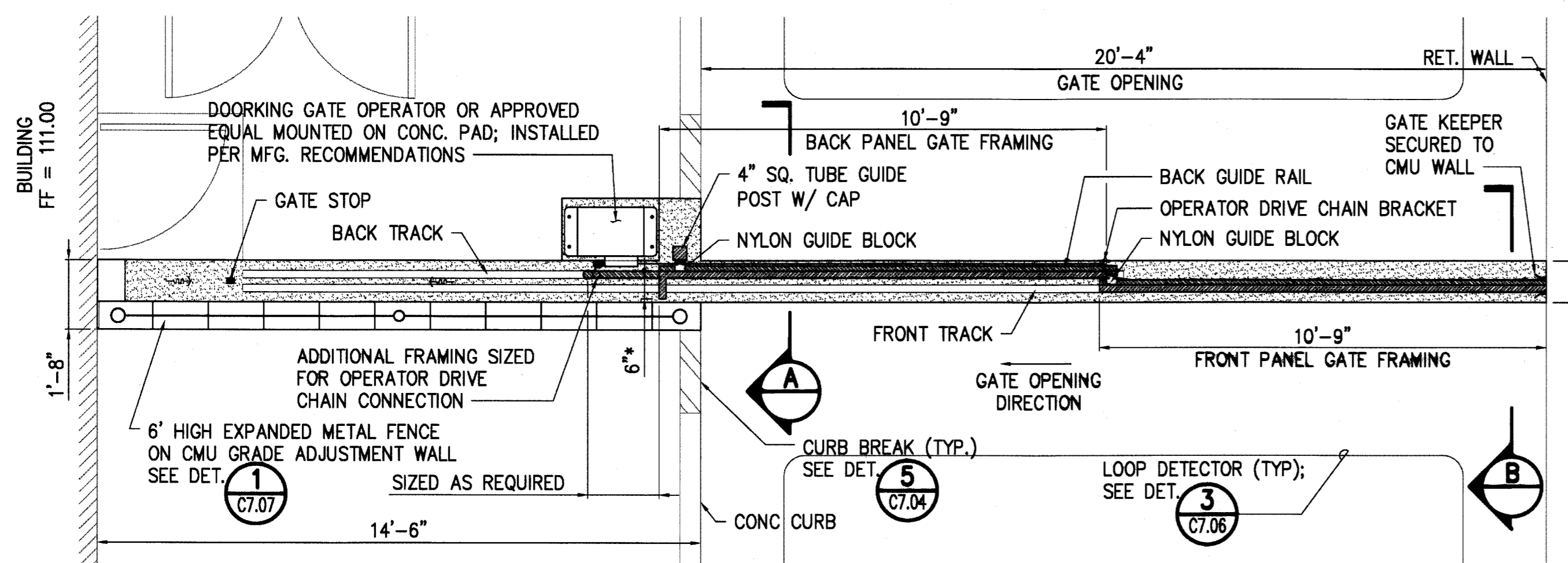


**TELESCOPING WIRE ROPE LAYOUT (GATE IN CLOSED POSITION)**  
SCALE: 3/8" = 1'-0"

**TELESCOPING WIRE ROPE LAYOUT - GATE IN OPEN POSITION**  
SCALE: 3/8" = 1'-0"

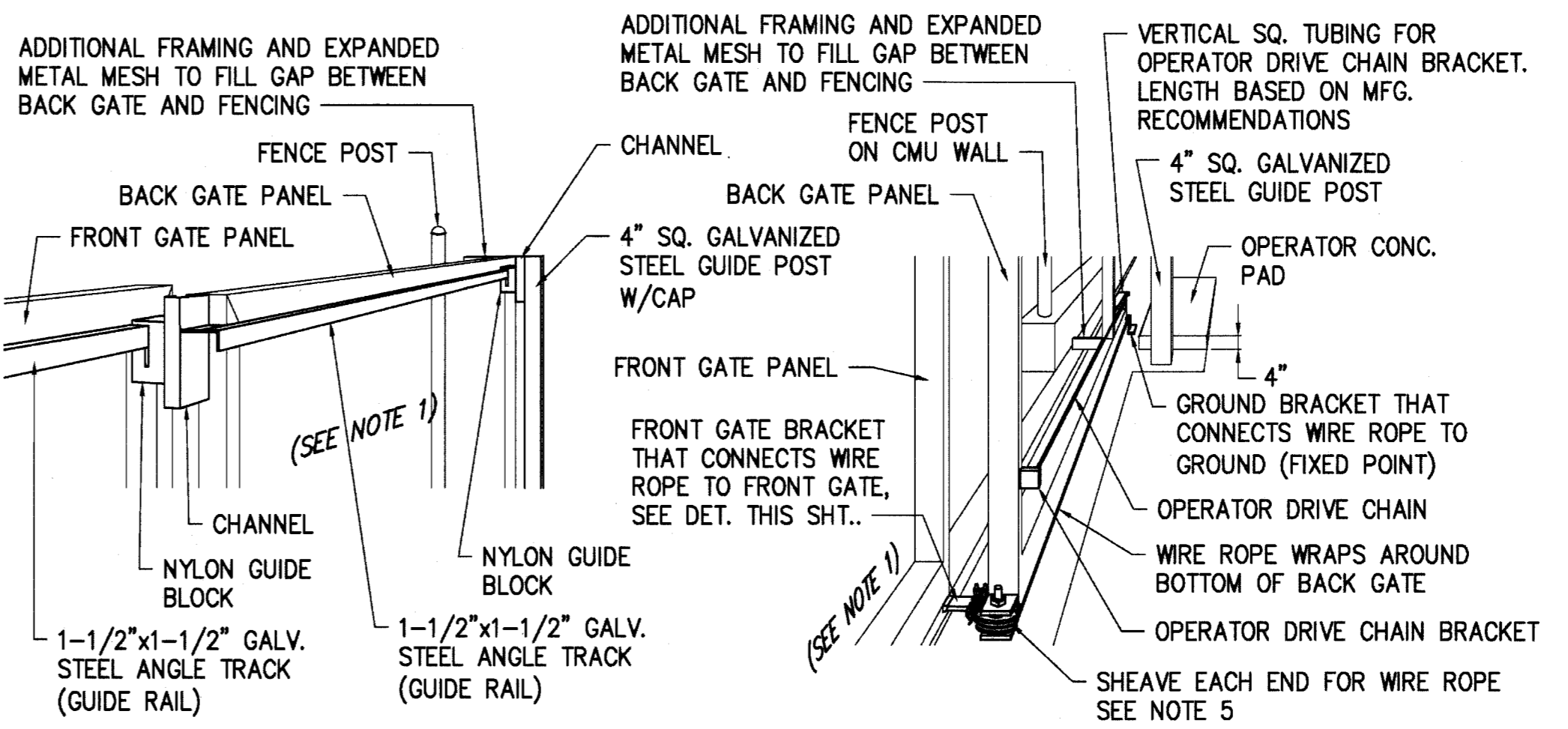


**FRONT GATE BRACKET** SCALE: NOT TO SCALE  
**GROUND BRACKET** SCALE: NOT TO SCALE



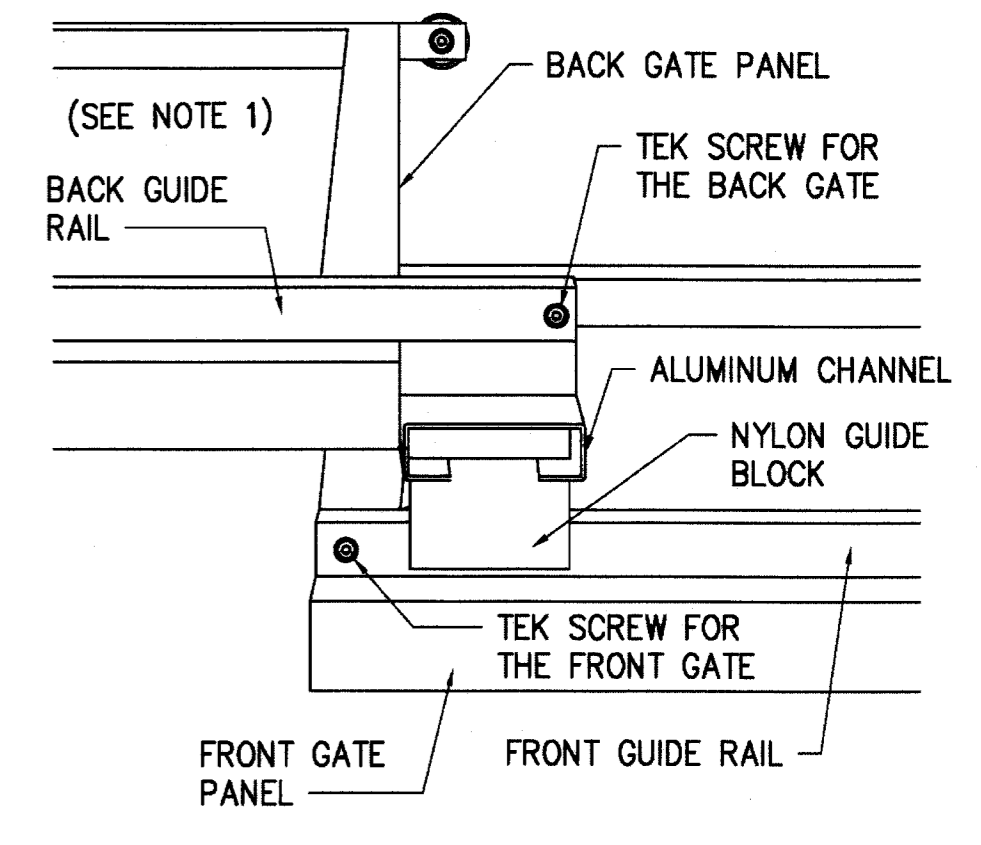
**PLAN - GATE IN CLOSED POSITION**  
SCALE: 3/8" = 1'-0"

\*ADDITIONAL FRAMING AND EXPANDED METAL MESH TO FILL GAP BETWEEN BACK GATE AND FENCING

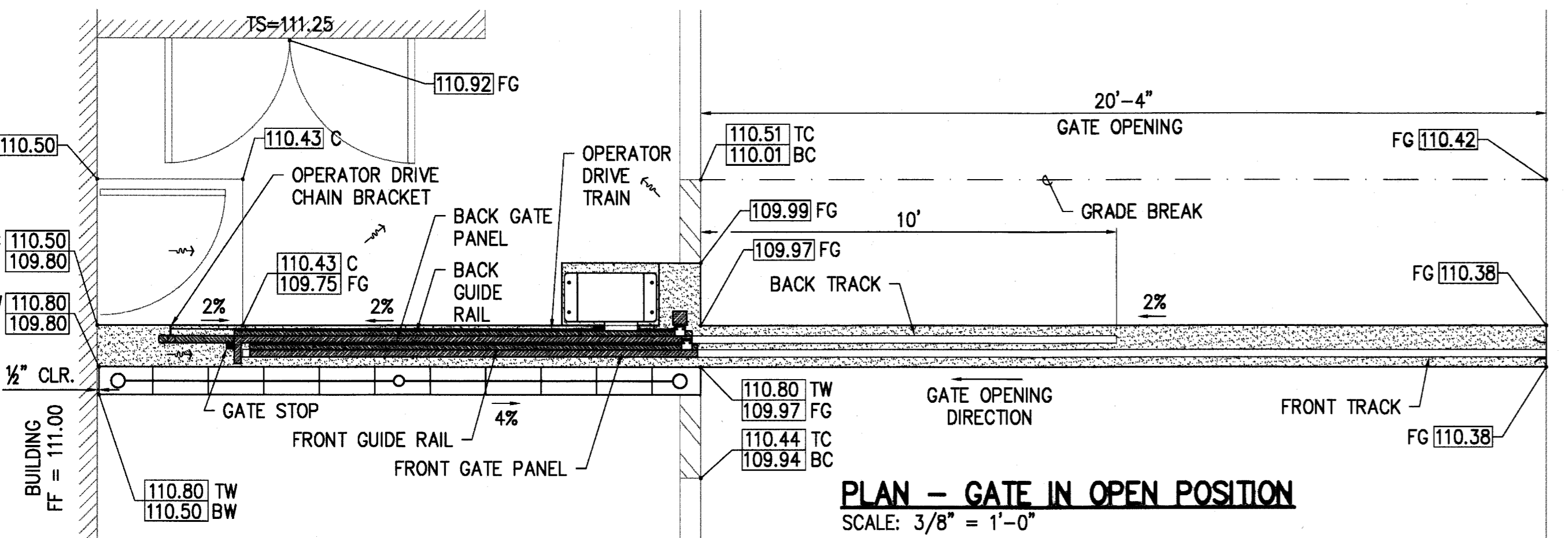


**GUIDE RAIL DETAIL**  
SCALE: NOT TO SCALE

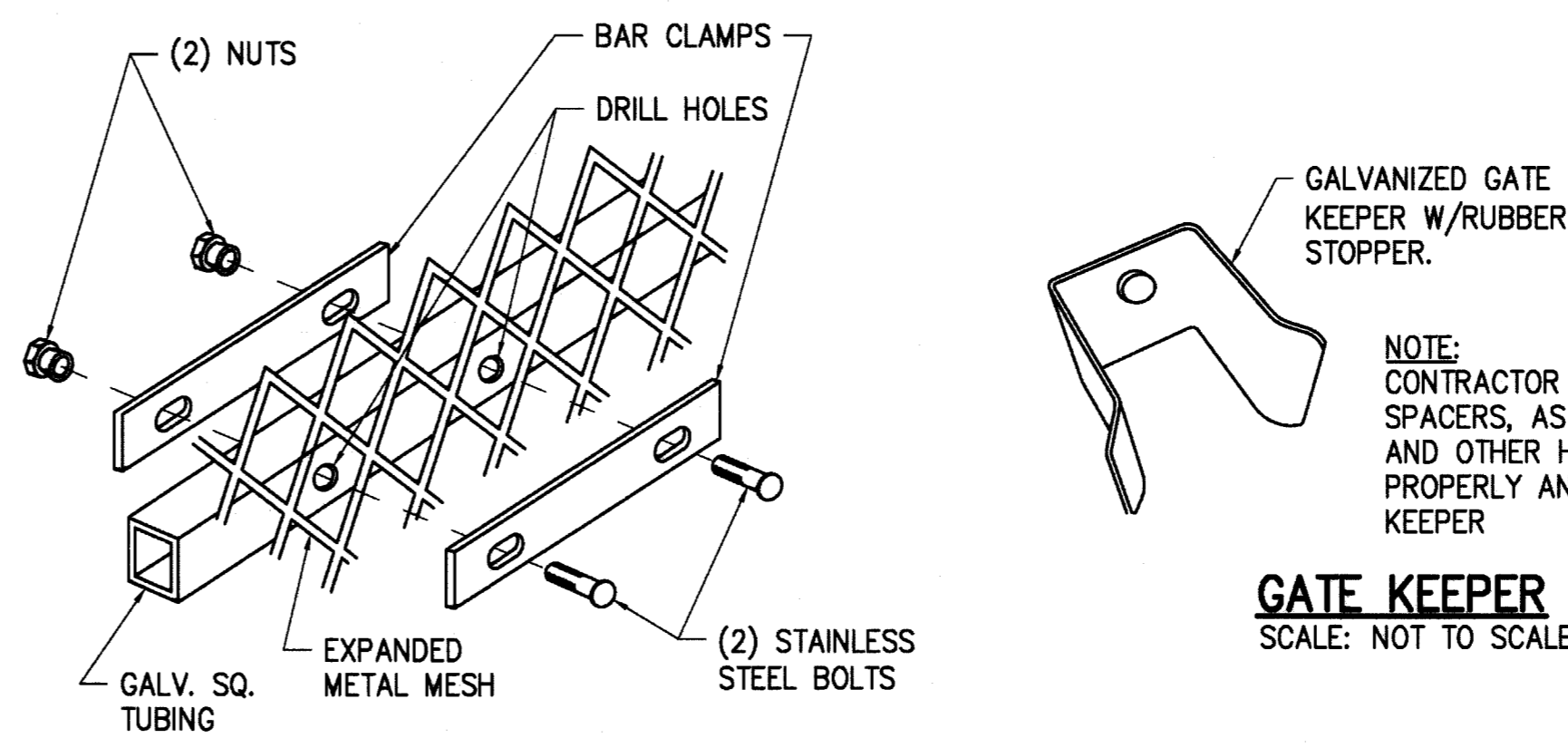
**WIRE ROPE & DRIVE CHAIN ATTACHMENT DETAIL**  
SCALE: NOT TO SCALE



**GUIDE RAIL STOP DETAIL**  
SCALE: NOT TO SCALE

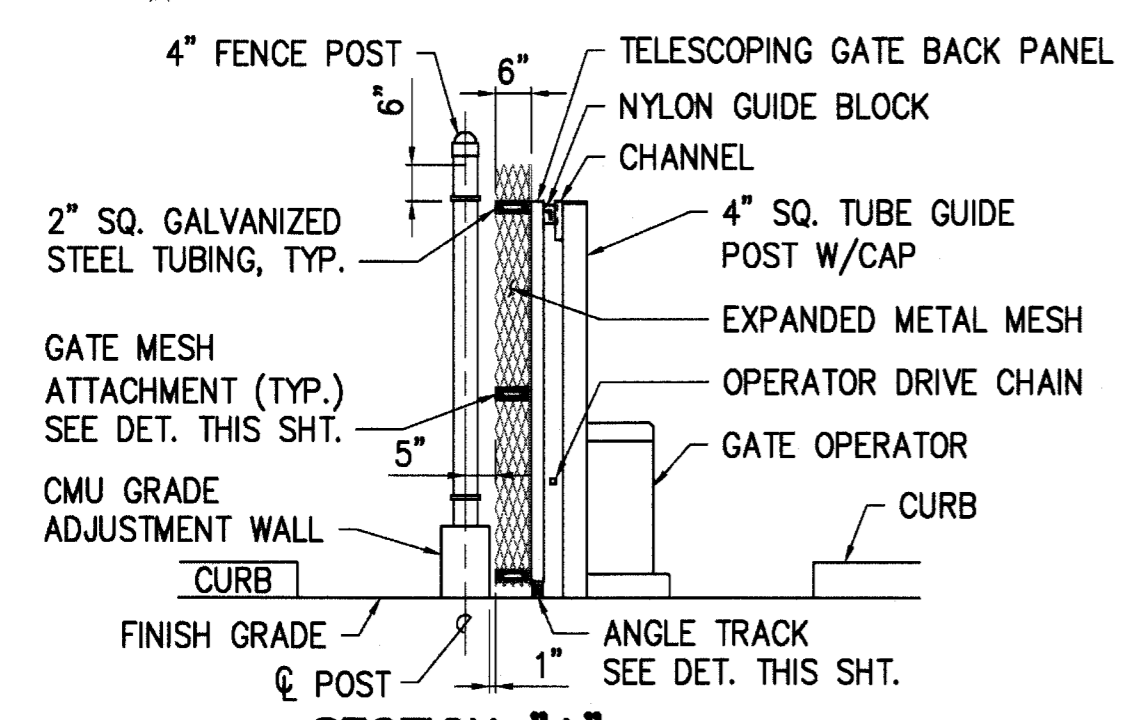


**PLAN - GATE IN OPEN POSITION**  
SCALE: 3/8" = 1'-0"

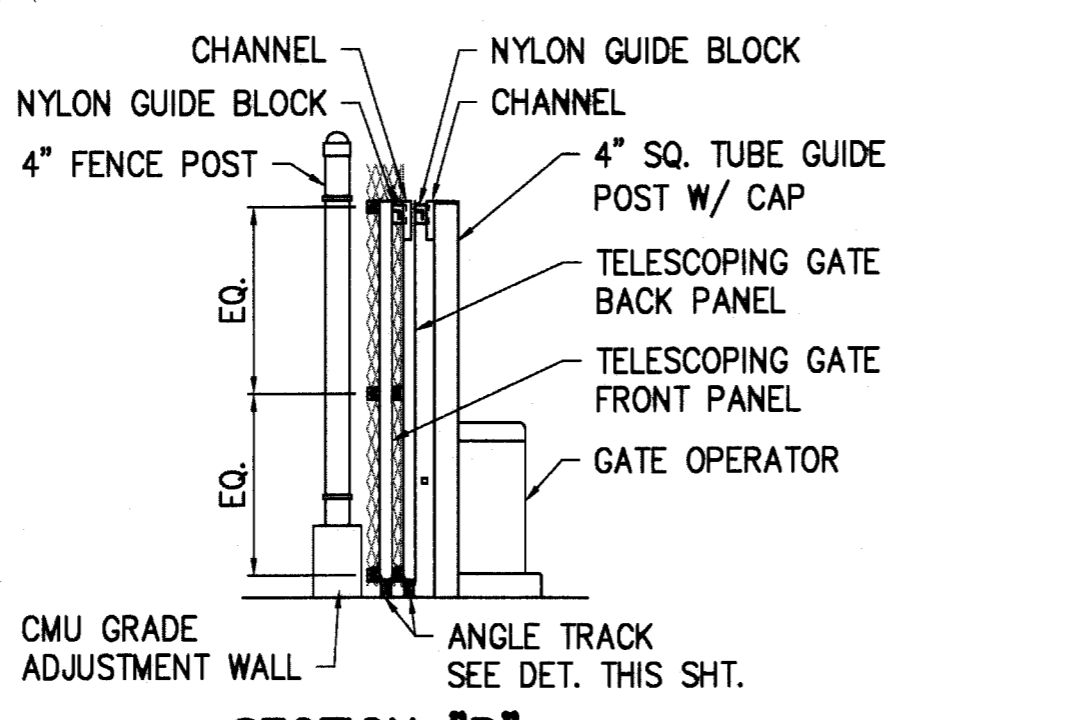


**GATE MESH ATTACHMENT**  
SCALE: NOT TO SCALE

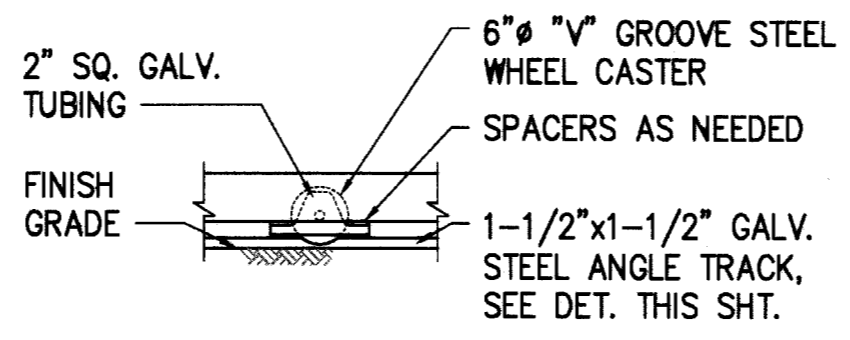
**GATE KEEPER**  
SCALE: NOT TO SCALE



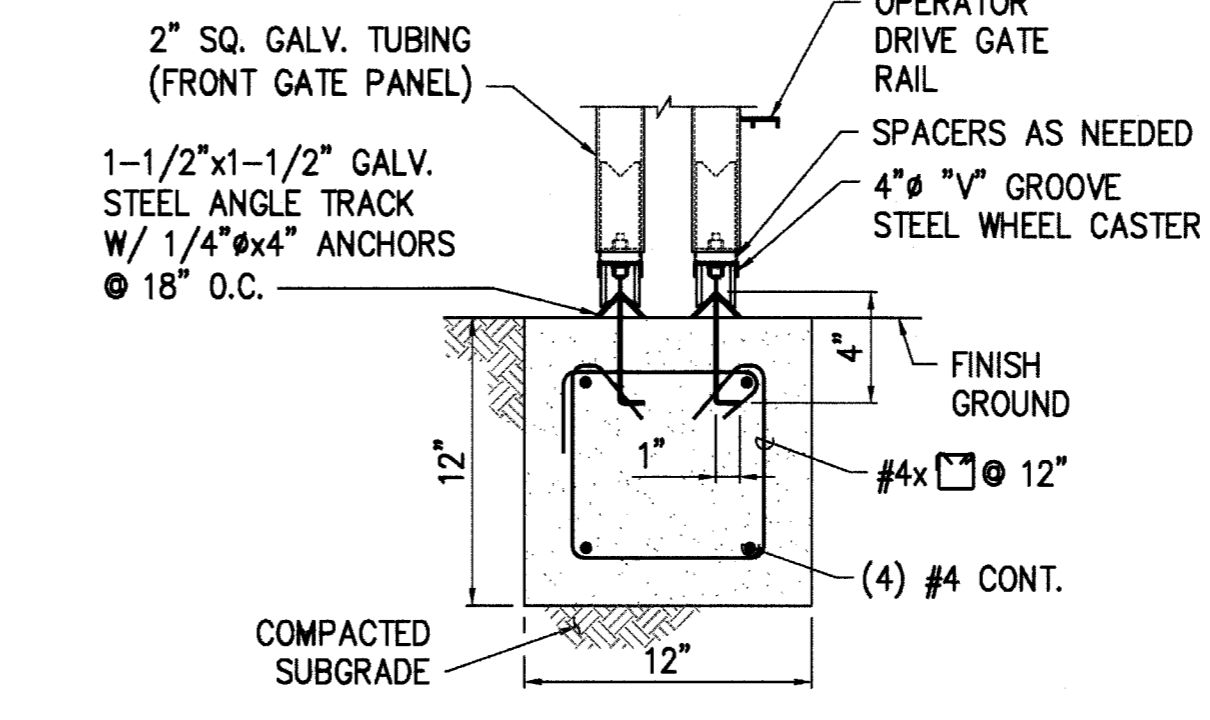
**SECTION "A"**  
SCALE: 3/8" = 1'-0"



**SECTION "B"**  
SCALE: 3/8" = 1'-0"



**"V" GROOVE WHEEL CASTER**  
SCALE: NOT TO SCALE

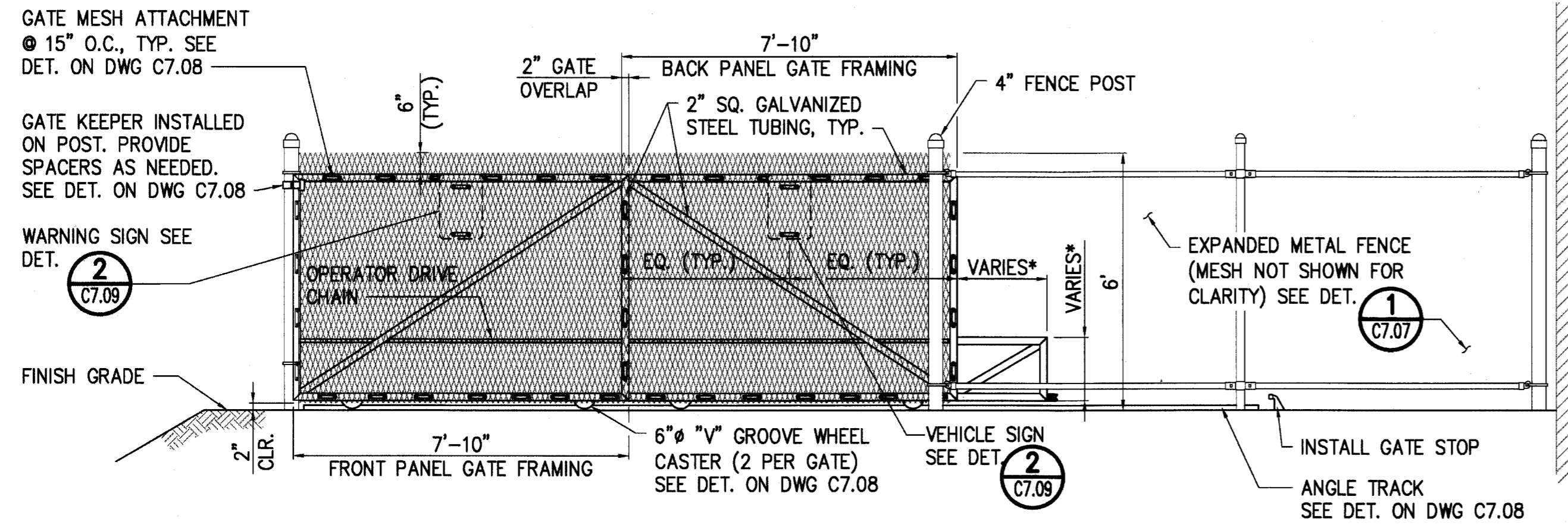


**ANGLE TRACK DETAIL**  
SCALE: NOT TO SCALE

**NOTES:**

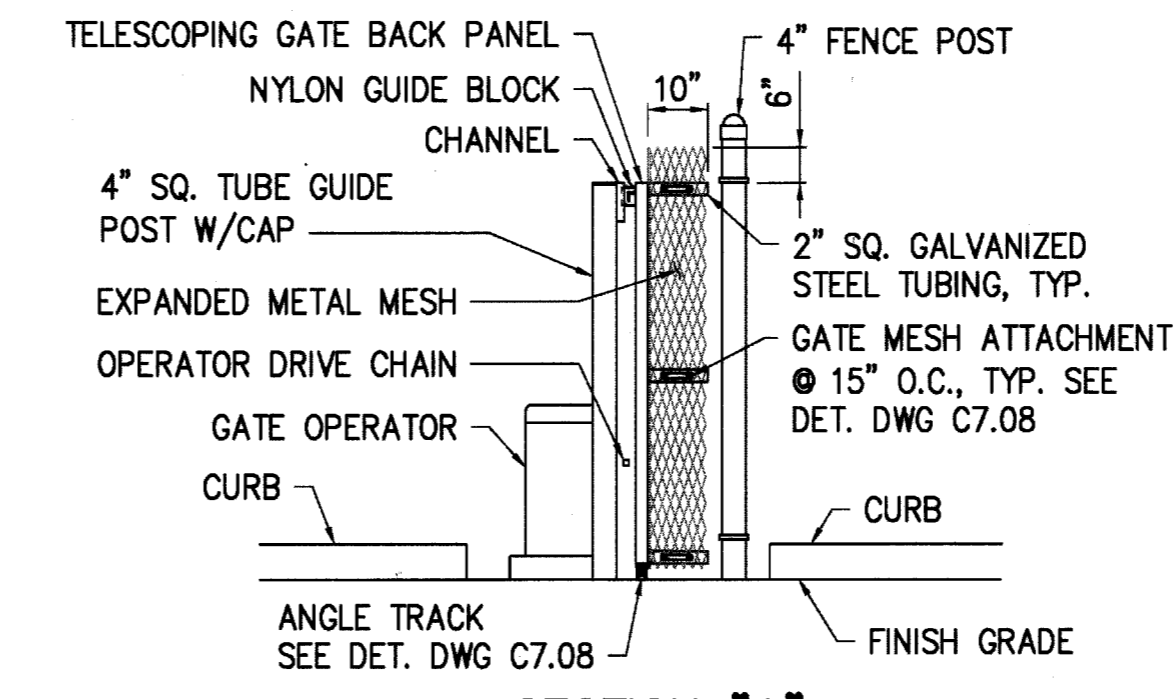
- EXPANDED METAL MESH NOT SHOWN FOR CLARITY. DETAILS ARE DRAWN BASED ON THE TELESCOPING MAIN GATE LAYOUT. THE DETAILS ARE APPLICABLE TO THE TELESCOPING SECONDARY EXIT GATE LAYOUT SHOWN ON DWG. C7.09, HOWEVER SOME DETAILS MAY BE A MIRROR IMAGE.
- FRONT GATE PANEL WILL OPEN 2X FASTER THAN BACK GATE PANEL. ADJUST OPERATOR TO 1/2X THE NORMAL OPERATING SPEED.
- GATE SHALL BE FITTED IN FIELD AND ADJUSTED AS NEEDED TO ENSURE PROPER OPERATION.
- GATE SHALL BE MANUFACTURED AND INSTALLED TO COMPLY WITH THE SAFETY REQUIREMENTS OF ASTM F2200 AND UL325.
- POST AND BRACES SHALL BE SCHEDULE 40 PIPE. SIZES SPECIFIED ARE OUTSIDE DIAMETER.

| REVISION NO.                                                                        | SYM.                                 | DESCRIPTION | SHT./OF | DATE   | APPROVED                    |
|-------------------------------------------------------------------------------------|--------------------------------------|-------------|---------|--------|-----------------------------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION |                                      |             |         |        |                             |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                          |                                      |             |         |        |                             |
| DETAILS - 9                                                                         |                                      |             |         |        |                             |
| DESIGNED:                                                                           | CJ                                   | SUBMITTED:  | GC      | DATE:  | 03/15/2016                  |
| DRAWN:                                                                              | CJ                                   | CHECKED:    | YT      | SCALE: | AS SHOWN                    |
| APPROVED:                                                                           | <i>[Signature]</i><br>CHIEF ENGINEER |             | DATE:   |        | MAR 23 2016                 |
|                                                                                     |                                      |             |         |        | DRAWING NO.<br><b>C7.08</b> |

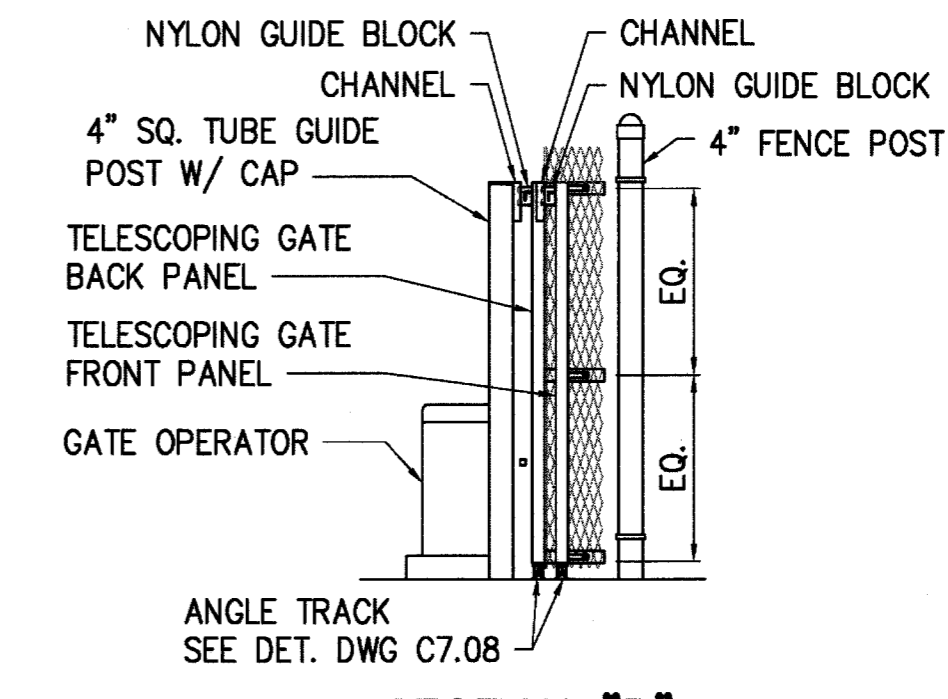


**ELEVATION**  
SCALE: 3/8" = 1'-0"

\*ADDITIONAL FRAMING SIZED FOR OPERATOR DRIVE CHAIN CONNECTION & TELESCOPING WIRE ROPE



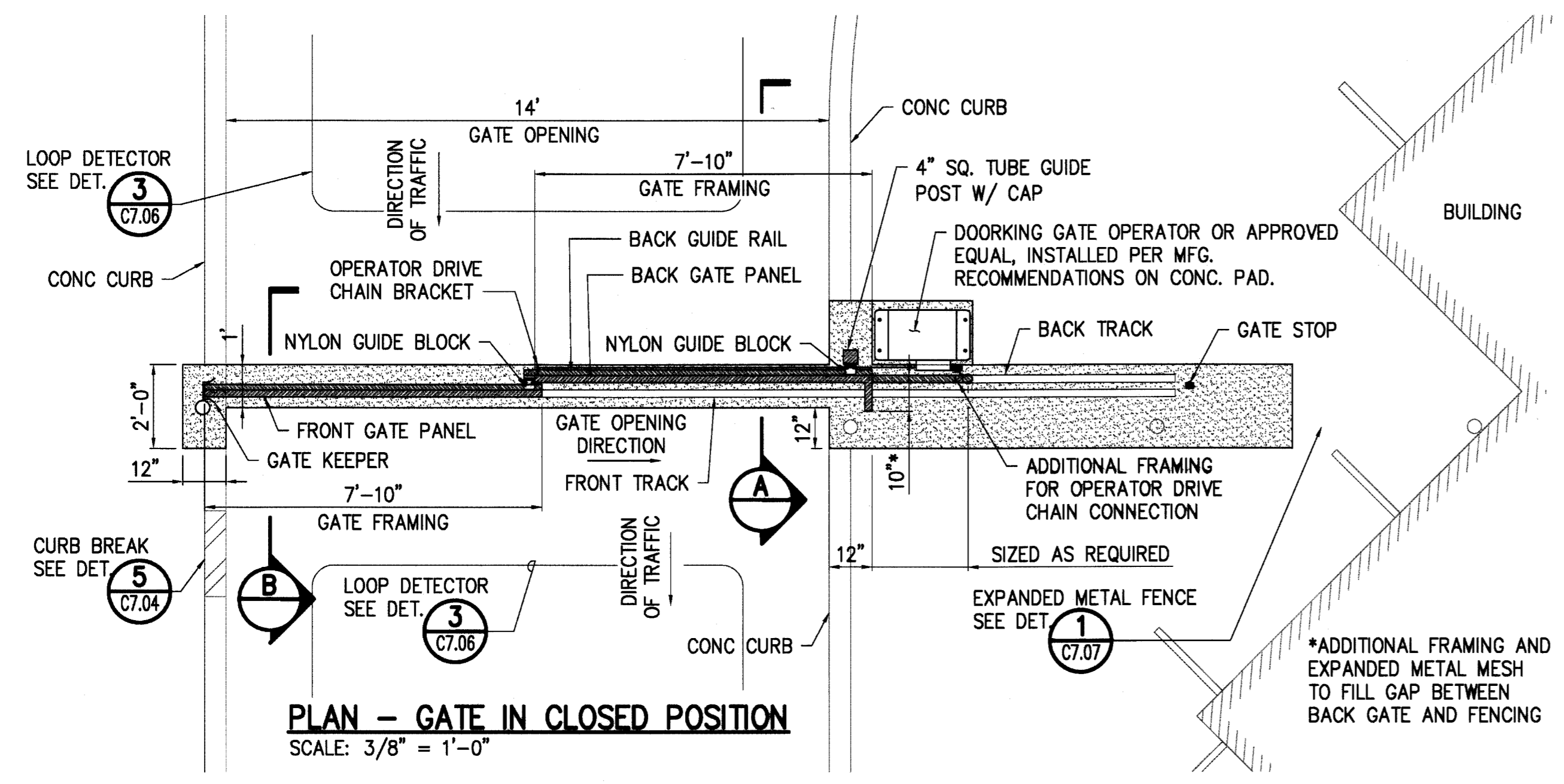
**SECTION "A"**  
SCALE: 3/8" = 1'-0"



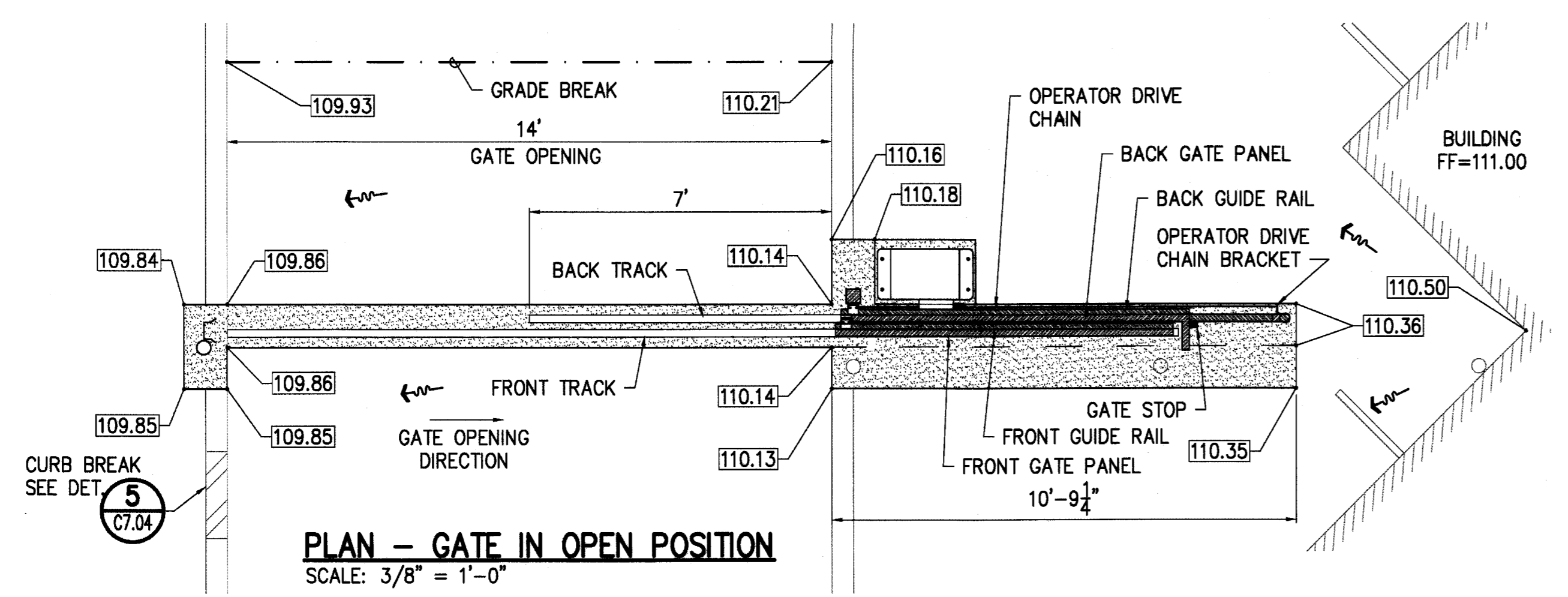
**SECTION "B"**  
SCALE: 3/8" = 1'-0"

**TELESCOPING GATE NOTES:**

1. SEE DWG. C7.08 FOR ADDITIONAL TELESCOPING GATE DETAILS. DETAILS DRAWN ARE BASED ON THE TELESCOPING MAIN GATE LAYOUT. THE DETAILS ARE APPLICABLE TO THIS TELESCOPING SECONDARY EXIT GATE LAYOUT, HOWEVER SOME DETAILS MAY BE A MIRROR IMAGE. REFER TO THIS LAYOUT FOR GATE COMPONENT ARRANGEMENT.
2. GATE SHALL BE FITTED IN FIELD AND ADJUSTED AS NEEDED TO ENSURE PROPER OPERATION.
3. GATE SHALL BE MANUFACTURED AND INSTALLED TO COMPLY WITH THE SAFETY REQUIREMENTS OF ASTM F2200 AND UL325.

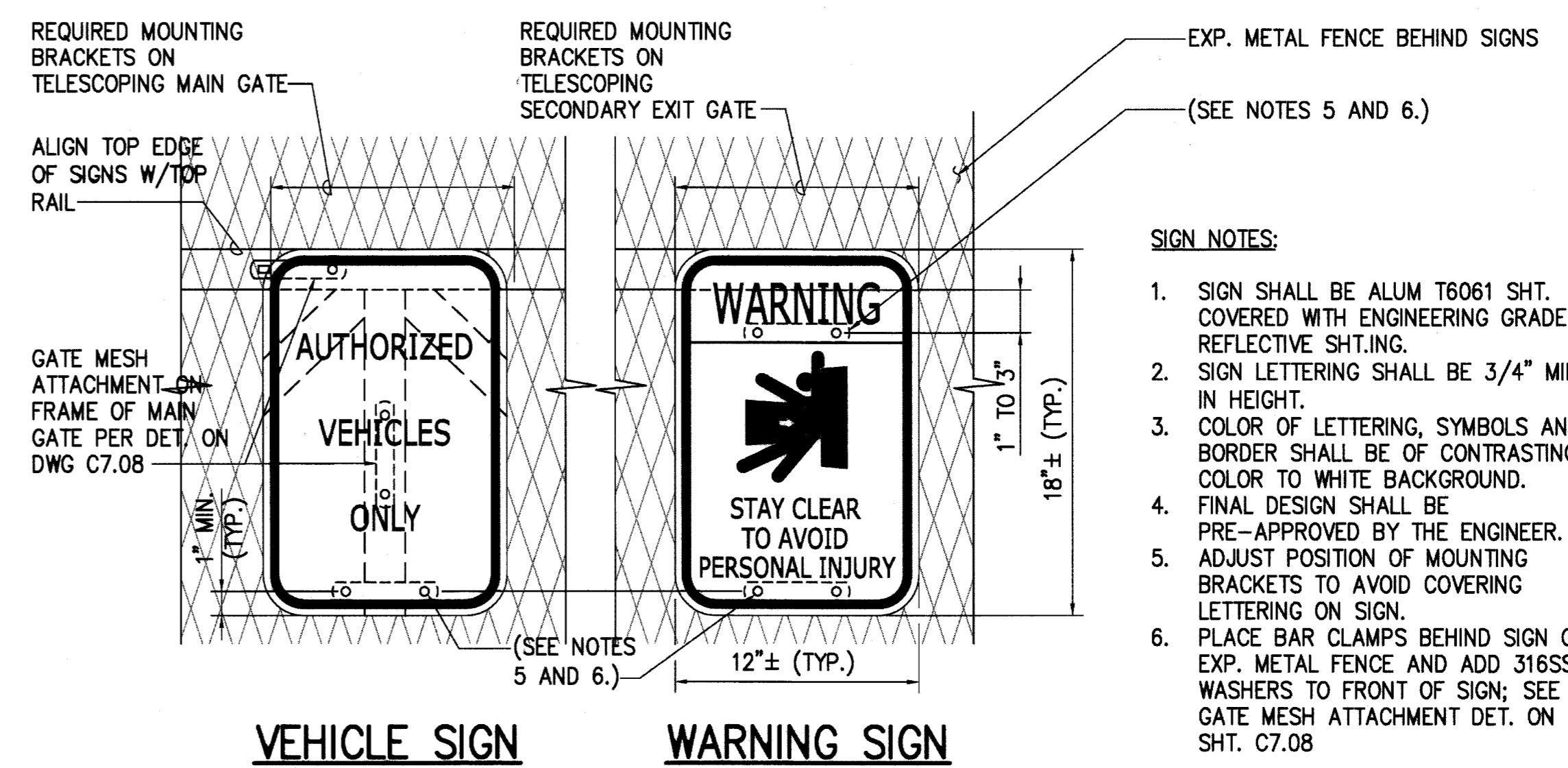


**PLAN - GATE IN CLOSED POSITION**  
SCALE: 3/8" = 1'-0"



**PLAN - GATE IN OPEN POSITION**  
SCALE: 3/8" = 1'-0"

**1 TELESCOPING SECONDARY EXIT GATE**  
C7.09 NOT TO SCALE



**2 TELESCOPING GATE SIGN DETAIL**  
C7.09 NOT TO SCALE

**SIGN NOTES:**

1. SIGN SHALL BE ALUM T6061 SHT. COVERED WITH ENGINEERING GRADE REFLECTIVE SHT.ING.
2. SIGN LETTERING SHALL BE 3/4" MIN. IN HEIGHT.
3. COLOR OF LETTERING, SYMBOLS AND BORDER SHALL BE OF CONTRASTING COLOR TO WHITE BACKGROUND.
4. FINAL DESIGN SHALL BE PRE-APPROVED BY THE ENGINEER.
5. ADJUST POSITION OF MOUNTING BRACKETS TO AVOID COVERING LETTERING ON SIGN.
6. PLACE BAR CLAMPS BEHIND SIGN ON EXP. METAL FENCE AND ADD 316SS WASHERS TO FRONT OF SIGN; SEE GATE MESH ATTACHMENT DET. ON SHT. C7.08

| REVISION NO.                                                                                                                       | SYM. | DESCRIPTION | SHT./OF                    | DATE   | APPROVED                    |
|------------------------------------------------------------------------------------------------------------------------------------|------|-------------|----------------------------|--------|-----------------------------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION                                                |      |             |                            |        |                             |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                                                                         |      |             |                            |        |                             |
| DETAILS - 10                                                                                                                       |      |             |                            |        |                             |
| DESIGNED:                                                                                                                          | CJ   | SUBMITTED:  | ac                         | DATE:  | 03/15/2016                  |
| DRAWN:                                                                                                                             | CJ   | CHECKED:    | YT                         | SCALE: | AS SHOWN                    |
| APPROVED:                                                                                                                          |      |             | DATE:                      |        | DRAWING NO.                 |
|                                                                                                                                    |      |             | <b>MAR 23 2016</b><br>DATE |        | <b>C7.09</b><br>DRAWING NO. |
| <small>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.</small> |      |             |                            |        |                             |

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**COUNTY OF MAUI – GENERAL NOTES FOR TRAFFIC CONTROL PLAN:**

1. TRAFFIC CONES AND DELINEATORS SHALL BE A MINIMUM OF 18 INCHES IN HEIGHT WITH A BROADENED BASE AND MAY BE MADE OF VARIOUS MATERIALS TO WITHSTAND IMPACT WITHOUT DAMAGE TO THEMSELVES OR TO VEHICLES. TWENTY-EIGHT INCHES SHOULD BE THE MINIMUM HEIGHT OF CONES DURING HOURS OF DARKNESS.
2. TRAFFIC CONES AND DELINEATORS SHALL BE REFLECTORIZED OR EQUIPPED WITH LIGHTING DEVICES FOR MAXIMUM VISIBILITY DURING NIGHT TIME USE.
3. REFLECTORIZATION OF TUBULAR MARKERS SHALL BE A MINIMUM OF TWO, 3" WIDE WHITE BANDS PLACED MAXIMUM OF 2 INCHES FROM THE TOP WITH A MAXIMUM 6 INCHES BETWEEN THE BANDS. REFLECTORIZATION OF CONES SHALL BE PROVIDED BY A MINIMUM 6-INCH-WIDE BAND PLACED A MINIMUM OF 3 INCHES BUT NO MORE THAN 4 INCHES FROM THE TOP. WHEN THE 28-INCH OR LARGER SIZE CONES ARE USED THE STANDARD 6-INCH BAND SHALL BE SUPPLEMENTED WITH AN ADDITIONAL 4-INCH WHITE BAND SPACED A MINIMUM OF 2 INCHES BELOW THE 6-INCH BAND.
4. THE PERMITTEE SHALL MAKE MINOR ADJUSTMENTS AT INTERSECTION, DRIVEWAYS, BRIDGES, STRUCTURES, ETC., TO FIT FIELD CONDITIONS.
5. CONES OR DELINEATORS SHALL BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
6. TRAFFIC CONTROL DEVICES SHALL BE INSTALLED SUCH THAT THE SIGN OR DEVICE FARTHEST FROM THE WORK AREA SHALL BE PLACED FIRST. THE OTHERS SHALL THEN BE PLACED PROGRESSIVELY TOWARD THE WORK AREA.
7. REGULATORY AND WARNING SIGNS WITHIN THE CONSTRUCTION ZONE THAT ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLANS SHALL BE REMOVED OR COVERED. ALL SIGNS SHALL BE RESTORED UPON COMPLETION OF WORK.
8. FLAGGERS AND/OR POLICE OFFICERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES.
9. ALL TRAFFIC LANES SHALL BE A MINIMUM OF 10 FEET WIDE.
10. ALL CONSTRUCTION WARNING SIGNS SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE MESSAGE IS NOT APPLICABLE OR NOT IN USE.
11. THE BACKS OF ALL SIGNS FOR TRAFFIC CONTROL SHALL BE APPROPRIATELY COVERED TO PRECLUDE THE DISPLAY OF INAPPLICABLE SIGN MESSAGES (I.E., WHEN SIGNS HAVE MESSAGES ON BOTH SIDES).
12. AT THE END OF EACH DAYS WORK OR AS SOON AS THE WORK IS COMPLETED, THE PERMITTEE SHALL REMOVE ALL TRAFFIC CONTROL DEVICES NO LONGER NEEDED TO PERMIT FREE AND SAFE PASSAGE OF PUBLIC TRAFFIC. REMOVAL SHALL BE IN REVERSE ORDER OF INSTALLATION.
13. REPLACE PERMANENT PAVEMENT MARKINGS AND TRAFFIC SIGNS UPON COMPLETION OF EACH PHASE OF WORK.
14. CONTRACTOR SHALL EXCAVATE WHAT HE CAN INSTALL IN ANY GIVEN DAY.
15. OPEN TRENCH WILL NOT BE ALLOWED UNLESS ROAD PLATE IS INSTALLED.
16. TEMPORARY PATCH ACCEPTABLE, HOWEVER, PERMANENT REPAIR SHALL BE DONE IN 7 DAYS.
17. TRENCH SHALL BE MAINTAINED REGULARLY.
18. STEEL TRACK EQUIPMENT NOT PERMITTED ON PAVEMENT. DAMAGED PAVEMENTS DUE TO EQUIPMENT(S) SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER, INCLUDING RESURFACING, RECONSTRUCTION, ETC.
19. CONTRACTOR SHALL SUBMIT VIDEOTAPE OF PROPOSED ROUTE SHOWING CONDITION OF EXISTING PAVEMENT.

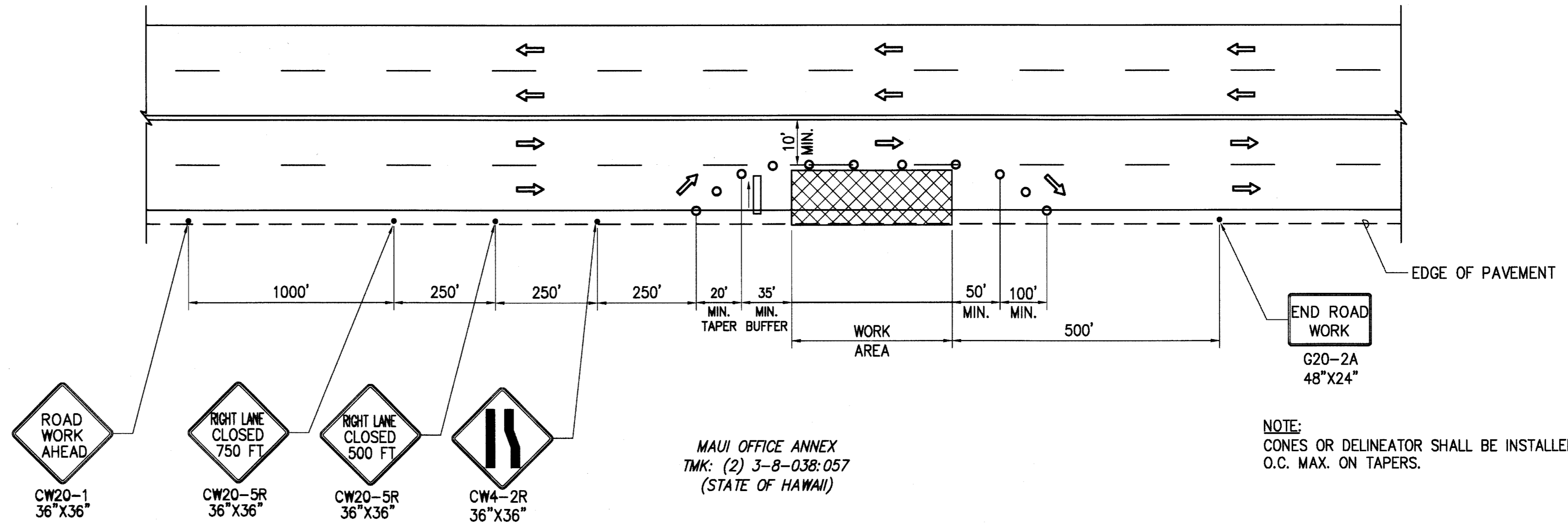
**LEGEND**

- TRAFFIC CONE WITH REFLECTIVE COLLAR
- ◆ SIGN
- ← DIRECTION OF TRAFFIC
- ▨ WORK AREA
- ⚡ FLASHING ARROW SIGNAL
- ⚡ TYPE II BARRICADE WITH STEADY BURN
- ▭ SIDEWALK
- EDGE OF PAVEMENT

POSTED SPEED LIMIT : 20 MPH

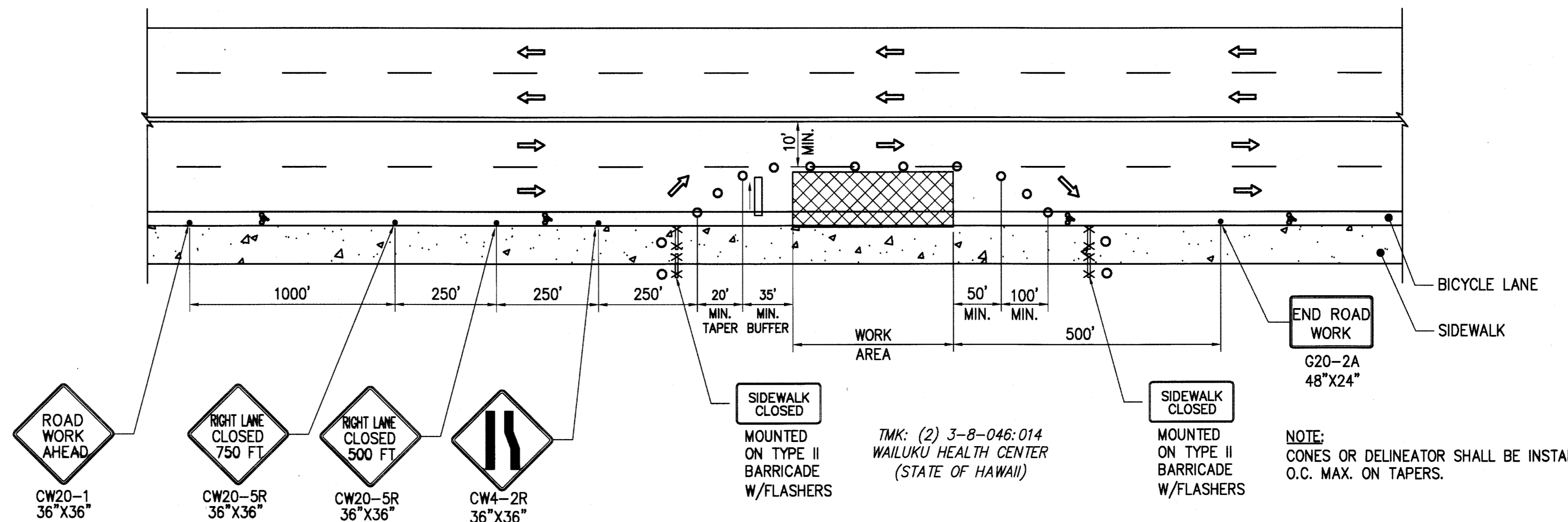
CONE, DELINEATOR, AND BARRICADE SPACING:  
10' O.C. FOR WORK AREAS  
20' O.C. FOR TAPERS AND BUFFERS

TMK: (2) 3-8-046:014  
WAILUKU HEALTH CENTER  
(STATE OF HAWAII)



**TYPICAL TRAFFIC CONTROL FOR LANES ADJACENT TO MAUI OFFICE ANNEX (RIGHT LANE CLOSED)**  
NOT TO SCALE

MAUI OFFICE ANNEX  
TMK: (2) 3-8-038:057  
(STATE OF HAWAII)

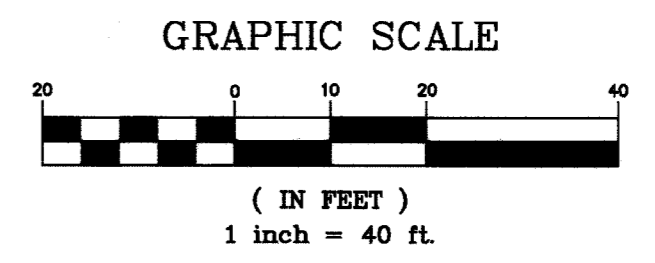


**TYPICAL TRAFFIC CONTROL FOR LANES ADJACENT TO WAILUKU HEALTH CENTER (RIGHT LANE CLOSED)**  
NOT TO SCALE

TMK: (2) 3-8-046:014  
WAILUKU HEALTH CENTER  
(STATE OF HAWAII)

| REVISION NO.                                                                                                        | SYM. | DESCRIPTION | SHT./OF    | DATE                        | APPROVED    |
|---------------------------------------------------------------------------------------------------------------------|------|-------------|------------|-----------------------------|-------------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION                                 |      |             |            |                             |             |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                                                          |      |             |            |                             |             |
| TRAFFIC CONTROL - TYPICAL LAYOUT                                                                                    |      |             |            |                             |             |
| DESIGNED:                                                                                                           | KS   | SUBMITTED:  | Ge         | bl                          |             |
| DRAWN:                                                                                                              | KS   | DATE:       | 03/15/2016 |                             |             |
| CHECKED:                                                                                                            | YT   | SCALE:      | AS SHOWN   |                             |             |
| APPROVED:                                                                                                           |      |             |            |                             | DRAWING NO. |
|                                                                                                                     |      |             |            | 04/30/2016<br>EXP. DATE<br> |             |
| THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. |      |             |            |                             |             |
| APPROVED:                                                                                                           |      |             |            | DATE: MAR 23 2016<br>C8.00  |             |

TRUE NORTH  
SCALE 1 IN = 40 FT



TMK: (2) 3-8-046:011  
KAISER PERMANENTE  
(A&B PROPERTIES, INC.)

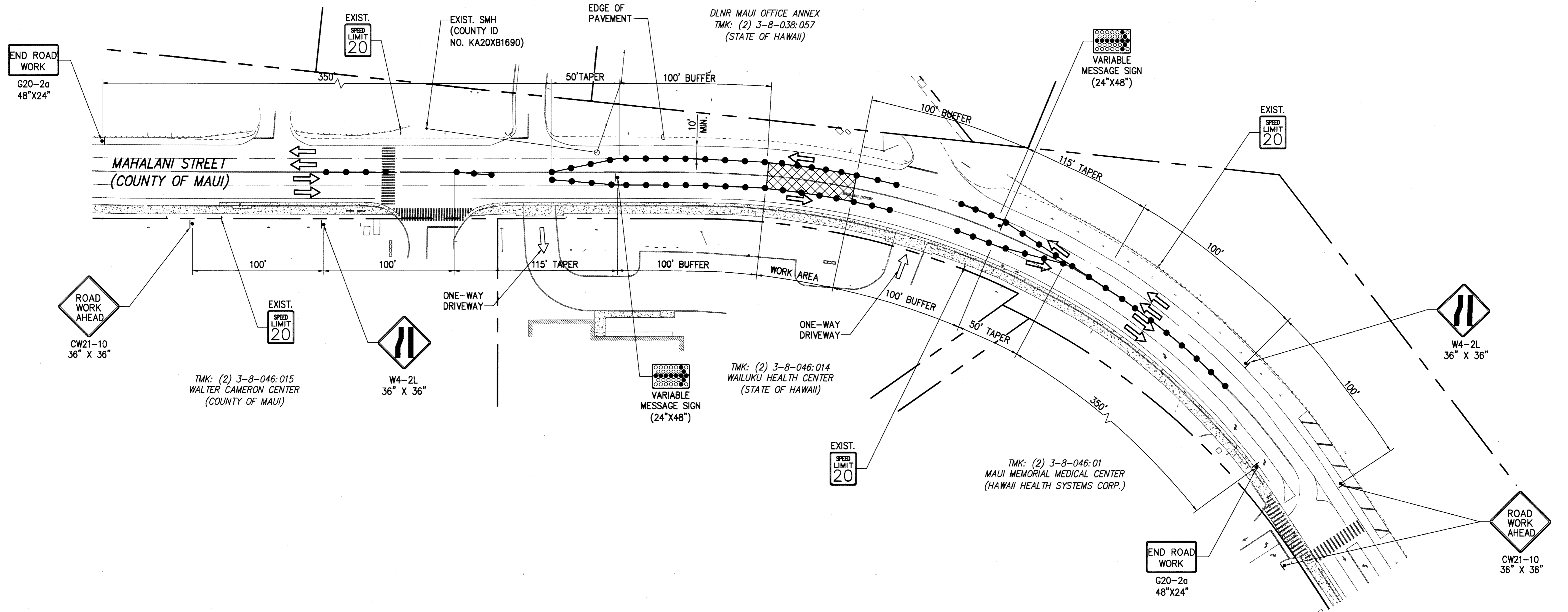
TMK: (2) 3-8-046:011  
(MAUI PUBLISHING COMPANY, LTD.)

DLNR MAUI OFFICE ANNEX  
TMK: (2) 3-8-038:057  
(STATE OF HAWAII)

TMK: (2) 3-8-046:015  
WALTER CAMERON CENTER  
(COUNTY OF MAUI)

TMK: (2) 3-8-046:014  
WAILUKU HEALTH CENTER  
(STATE OF HAWAII)

TMK: (2) 3-8-046:01  
MAUI MEMORIAL MEDICAL CENTER  
(HAWAII HEALTH SYSTEMS CORP.)



**TRAFFIC CONTROL PLAN - INTERIOR LANE CLOSURE**  
SCALE: 1"=40'

**LEGEND**

- PROPERTY LINE
- - - - - EDGE OF PAVEMENT
- ⊕ SIGN
- ▨ WORK AREA
- ⇒ DIRECTION OF TRAFFIC
- TRAFFIC CONE WITH REFLECTIVE COLLAR

POSTED SPEED LIMIT : 20 MPH

CONE, DELINEATOR, AND BARRICADE SPACING:  
10' O.C. FOR WORK AREAS  
20' O.C. FOR TAPERS AND BUFFERS

NOTE:  
ALL LANE WIDTHS SHALL BE A MINIMUM OF 10 FT.

| REVISION NO.                                                                                                        | SYM.                                                                                                              | DESCRIPTION | SHT./OF             | DATE | APPROVED                    |
|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------|---------------------|------|-----------------------------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION                                 |                                                                                                                   |             |                     |      |                             |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                                                          |                                                                                                                   |             |                     |      |                             |
| TRAFFIC CONTROL PLAN - INTERIOR LANE CLOSURE                                                                        |                                                                                                                   |             |                     |      |                             |
| DESIGNED:                                                                                                           | KS                                                                                                                | SUBMITTED:  | col                 |      |                             |
| DRAWN:                                                                                                              | KS                                                                                                                | DATE:       | 03/15/2016          |      |                             |
| CHECKED:                                                                                                            | YT                                                                                                                | SCALE:      | AS SHOWN            |      |                             |
| APPROVED:                                                                                                           | <br>YVONNE M. TURCO<br>LICENSED PROFESSIONAL ENGINEER<br>No. 11144-C<br>HAWAII, U.S.A.<br>04/30/2016<br>EXP. DATE |             | MAR 23 2016<br>DATE |      | DRAWING NO.<br><b>C8.01</b> |
| THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. |                                                                                                                   |             |                     |      |                             |

L.N.: PROJECT\S63 - DLNR\16304 - Maui Admin Bldg DESIGN\DRAWING\TC SCENARIO1.dwg - 2/12/2016 1:17 PM

HIRATA & ASSOCIATES, INC.

BORING LOG W.O. 13-5581

BORING NO. B1 DRIVING WT. 140 lb. START DATE 12/12/13  
SURFACE ELEV. 109.4' DROP 30 lb. END DATE 12/12/13

| DEPTH                                                                                                      | GRAPE | SAMPLE | BLOWS PER FOOT | DRY DENSITY (PCF) | MOIST. CONT. (%) | DESCRIPTION                                           |
|------------------------------------------------------------------------------------------------------------|-------|--------|----------------|-------------------|------------------|-------------------------------------------------------|
|                                                                                                            |       |        | 22             | 97                | 12               | Silty SAND (SM) - Tannish brown, moist, medium dense. |
|                                                                                                            |       |        | 95/10"         | 104               | 7                | SAND (SP) - Tannish brown, slightly moist, dense.     |
| -5                                                                                                         |       |        | 53/8"          | 99                | 8                |                                                       |
| -10                                                                                                        |       |        | 98/11"         | 101               | 7                |                                                       |
| -15                                                                                                        |       |        | 87/10"         | 98                | 3                |                                                       |
| End boring at 15.5 feet.                                                                                   |       |        |                |                   |                  |                                                       |
| Neither groundwater nor seepage water encountered.                                                         |       |        |                |                   |                  |                                                       |
| * Elevations based on Topographic Survey Map provided by The Limtaco Consulting Group on November 21, 2013 |       |        |                |                   |                  |                                                       |

Plate A4.1

HIRATA & ASSOCIATES, INC.

BORING LOG W.O. 13-5581

BORING NO. B2 DRIVING WT. 140 lb. START DATE 12/13/13  
SURFACE ELEV. 108.5' DROP 30 lb. END DATE 12/13/13

| DEPTH                                              | GRAPE | SAMPLE | BLOWS PER FOOT | DRY DENSITY (PCF) | MOIST. CONT. (%) | DESCRIPTION                                           |
|----------------------------------------------------|-------|--------|----------------|-------------------|------------------|-------------------------------------------------------|
|                                                    |       |        | 33             | 89                | 9                | Silty SAND (SM) - Tannish brown, moist, medium dense. |
|                                                    |       |        | 86/11"         | 94                | 3                | SAND (SP) - Tannish brown, slightly moist, dense.     |
| -5                                                 |       |        | 52/6"          | 96                | 4                |                                                       |
| -10                                                |       |        | 73             | 105               | 3                |                                                       |
| -15                                                |       |        | 50/5"          | 101               | 3                |                                                       |
| End boring at 19 feet.                             |       |        |                |                   |                  |                                                       |
| Neither groundwater nor seepage water encountered. |       |        |                |                   |                  |                                                       |

Plate A4.2

HIRATA & ASSOCIATES, INC.

BORING LOG W.O. 13-5581

BORING NO. B3 DRIVING WT. 140 lb. START DATE 12/11/13  
SURFACE ELEV. 110' DROP 30 lb. END DATE 12/11/13

| DEPTH                                              | GRAPE | SAMPLE | BLOWS PER FOOT | DRY DENSITY (PCF) | MOIST. CONT. (%) | DESCRIPTION                                           |
|----------------------------------------------------|-------|--------|----------------|-------------------|------------------|-------------------------------------------------------|
|                                                    |       |        | 13             | 86                | 10               | Silty SAND (SM) - Tannish brown, moist, medium dense. |
|                                                    |       |        | 50             | 99                | 4                | SAND (SP) - Tannish brown, slightly moist, dense.     |
| -5                                                 |       |        | 52/6"          | 96                | 9                | Moist at 5 feet.                                      |
| -10                                                |       |        | 54/6"          | 99                | 5                |                                                       |
| -15                                                |       |        | 50/2"          | No Recovery       |                  |                                                       |
| End boring at 15 feet.                             |       |        |                |                   |                  |                                                       |
| Neither groundwater nor seepage water encountered. |       |        |                |                   |                  |                                                       |

Plate A4.3

NOTES:

1. THE SUBSURFACE INFORMATION AND DATA PRESENTED HEREIN REPRESENT THE SUBSURFACE CONDITIONS AT THE SPECIFIC BORING LOCATIONS AND AT THE TIME OF EXPLORATION ONLY. NO ASSURANCE IS GIVEN THAT THESE CONDITIONS ARE REPRESENTATIVE OF THE CONDITIONS AT OTHER LOCATIONS OF THE PROJECT SITE OR AT OTHER TIMES. NO ASSURANCE IS GIVEN THAT THE PRESENCE OR ABSENCE OF WATER IN THE BORINGS AT THE TIME OF EXPLORATION IS REPRESENTATIVE OF THE CONDITIONS TO BE ENCOUNTERED AT THE TIME OF CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY AND ALL ASSUMPTIONS, DEDUCTIONS, OR CONCLUSIONS WHICH HE MAY MAKE OR DERIVE FROM HIS EXAMINATION OF THE SUBSURFACE INFORMATION AND DATA PROVIDED HEREIN. THE CITY AND ITS CONSULTANTS ASSUME NO RESPONSIBILITY FOR THE CONTRACTOR'S INTERPRETATION OF SUCH DATA.
2. SEE DRAWING C0.00 FOR BORING LOCATIONS.

HIRATA & ASSOCIATES, INC.

BORING LOG W.O. 13-5581

BORING NO. B4 DRIVING WT. 140 lb. START DATE 12/12/13  
SURFACE ELEV. 114' DROP 30 lb. END DATE 12/12/13

| DEPTH                                              | GRAPE | SAMPLE | BLOWS PER FOOT | DRY DENSITY (PCF) | MOIST. CONT. (%) | DESCRIPTION                                             |
|----------------------------------------------------|-------|--------|----------------|-------------------|------------------|---------------------------------------------------------|
|                                                    |       |        | 4              | 100               | 4                | Silty SAND (SM) - Tannish brown, slightly moist, loose. |
|                                                    |       |        | 85             | 116               | 5                | SAND (SP) - Tannish brown, slightly moist, dense.       |
| -5                                                 |       |        | 95/11"         | 115               | 5                |                                                         |
| -10                                                |       |        | 54/6"          | 110               | 3                |                                                         |
| -15                                                |       |        | 90/9"          | 103               | 3                |                                                         |
| -20                                                |       |        | 50/5"          | 106               | 3                |                                                         |
| End boring at 20 feet.                             |       |        |                |                   |                  |                                                         |
| Neither groundwater nor seepage water encountered. |       |        |                |                   |                  |                                                         |

Plate A4.4

HIRATA & ASSOCIATES, INC.

BORING LOG W.O. 13-5581

BORING NO. B5 DRIVING WT. 140 lb. START DATE 12/12/13  
SURFACE ELEV. 116' DROP 30 lb. END DATE 12/12/13

| DEPTH                                              | GRAPE | SAMPLE | BLOWS PER FOOT | DRY DENSITY (PCF) | MOIST. CONT. (%) | DESCRIPTION                                                       |
|----------------------------------------------------|-------|--------|----------------|-------------------|------------------|-------------------------------------------------------------------|
|                                                    |       |        | 36             | 100               | 5                | SAND (SP) - Tannish brown, slightly moist, medium dense to dense. |
|                                                    |       |        | 24             | 94                | 7                |                                                                   |
| -5                                                 |       |        | 52/6"          | 102               | 6                |                                                                   |
| -10                                                |       |        | 52/6"          | 108               | 5                |                                                                   |
| -15                                                |       |        | 86/9"          | 115               | 4                |                                                                   |
| -20                                                |       |        | 90/9"          | 107               | 5                |                                                                   |
| End boring at 20.5 feet.                           |       |        |                |                   |                  |                                                                   |
| Neither groundwater nor seepage water encountered. |       |        |                |                   |                  |                                                                   |

Plate A4.5

HIRATA & ASSOCIATES, INC.

BORING LOG W.O. 13-5581

BORING NO. B6 DRIVING WT. 140 lb. START DATE 12/12/13  
SURFACE ELEV. 115' DROP 30 lb. END DATE 12/12/13

| DEPTH                                              | GRAPE | SAMPLE | BLOWS PER FOOT | DRY DENSITY (PCF) | MOIST. CONT. (%) | DESCRIPTION                                       |
|----------------------------------------------------|-------|--------|----------------|-------------------|------------------|---------------------------------------------------|
|                                                    |       |        | 39             | 105               | 4                | SAND (SP) - Tannish brown, slightly moist, dense. |
|                                                    |       |        | 71             | 104               | 3                |                                                   |
| -5                                                 |       |        | 54/6"          | 108               | 3                |                                                   |
| -10                                                |       |        | 86/9"          | 99                | 3                |                                                   |
| End boring at 14.5 feet.                           |       |        |                |                   |                  |                                                   |
| Neither groundwater nor seepage water encountered. |       |        |                |                   |                  |                                                   |

Plate A4.6

| REVISION NO.                                                                                                                                 | SYM. | DESCRIPTION | SHT./OF | DATE   | APPROVED             |
|----------------------------------------------------------------------------------------------------------------------------------------------|------|-------------|---------|--------|----------------------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION                                                          |      |             |         |        |                      |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                                                                                   |      |             |         |        |                      |
| BORING LOGS                                                                                                                                  |      |             |         |        |                      |
| DESIGNED:                                                                                                                                    | N/A  | SUBMITTED:  | 6/1     | DATE:  | 03/15/2016           |
| DRAWN:                                                                                                                                       | TN   | CHECKED:    | YT      | SCALE: | AS SHOWN             |
| APPROVED: <i>[Signature]</i><br>CHIEF ENGINEER                                                                                               |      |             |         |        | DRAWING NO.<br>C9.00 |
| EXP. DATE: 04/30/2016<br>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. |      |             |         |        | DATE: MAR 23 2016    |

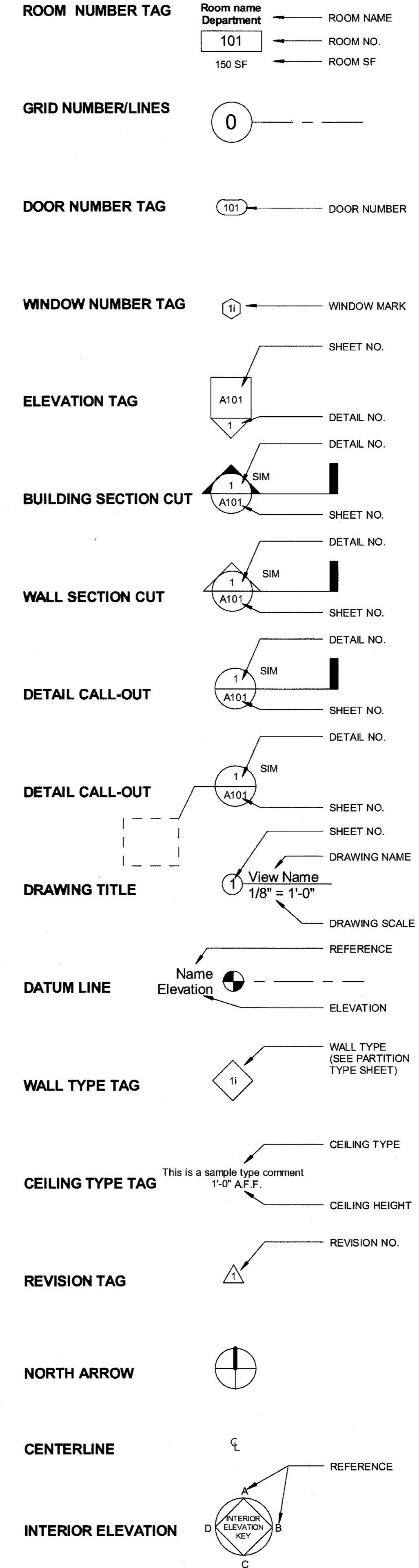
# GENERAL NOTES

- ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED.
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2006 EDITION OF THE I.B.C., THE LATEST RULES AND REGULATIONS OF ALL APPLICABLE STATE and/or LOCAL CODES, LAWS, AMENDMENTS, ORDINANCES and STATUTES. NOTHING IN THE DRAWINGS or SPECIFICATIONS IS TO BE CONSTRUED AS REQUIRING or PERMITTING WORK CONTRARY TO THESE RULES, REGULATIONS and CODES. IF SO, CONTACT THE ARCHITECT FOR RESOLUTION.
- THESE DRAWINGS SHALL CONFORM WITH THE 2010 AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN.
- THE DRAWINGS INDICATE LOCATION, DIMENSIONS, REFERENCE and TYPICAL DETAILS OF CONSTRUCTION. THE DRAWINGS DO NOT ILLUSTRATE EVERY CONDITION. WORK NOT PARTICULARLY DETAILED SHALL BE OF CONSTRUCTION SIMILAR TO PARTS WHICH ARE DETAILED.
- DO NOT SCALE THE DRAWINGS. EXISTING CONDITIONS SHALL BE VERIFIED IN THE FIELD. WHERE DISCREPANCIES BETWEEN THE DRAWING DIMENSIONS and THE FIELD CONDITIONS OCCUR, THEY SHALL BE REPORTED TO THE ARCHITECT FOR RESOLUTION.
- DETAILED DRAWINGS and LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS. PREFERENCE SHALL BE GIVEN TO THE FIGURED DIMENSIONS ON THE DRAWINGS and GENERAL NOTES/SPECIFICATIONS ARE INTENDED TO AGREE and SUPPLEMENT EACH OTHER. ANYTHING INDICATED ON ONE and NOT IN THE OTHER SHALL BE EXECUTED AS IF BOTH. IN CASES OF DIRECT CONFLICT, THE MOST RESTRICTIVE SHALL GOVERN (CONTACT THE ARCHITECT FOR RESOLUTION).
- ALL CONTRACTORS SHALL VISIT THE SITE and VERIFY THAT ALL EXISTING CONDITIONS AGREE WITH THE INFORMATION SHOWN. THE CONTRACTOR SHALL VERIFY IF ENVIRONMENTAL ASSESSMENT OF THE PROJECT SITE WILL BE REQUIRED. ALL CONTRACTORS SHALL BE DEEMED TO HAVE INSPECTED THE SITE and SATISFIED HIMSELF AS TO THE TRUE CONDITION UNDER WHICH THE WORK IS TO BE PERFORMED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR RESOLUTION PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL PATCH or REPAIR ALL MATERIALS, EQUIPMENT and SURFACES DAMAGED BY THE CONTRACTOR or HIS SUB-CONTRACTORS DURING THE EXECUTION OF THE WORK.
- THE CONTRACTOR SHALL CLEAN-UP DEBRIS AS THE WORK PROGRESSES (MINIMUM - AT THE END OF EACH DAY). PROVIDE FOR TRASH REMOVAL FROM THE SITE. FINAL CLEANING AFTER SUBSTANTIAL COMPLETION, BUT PRIOR TO FINAL INSPECTION, SHALL INCLUDE A THOROUGH CLEANING OF ALL SURFACES INSTALLED. ALL EXCESS MATERIAL, DEBRIS, TRASH, ETC. SHALL BE REMOVED FROM THE SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF NOISE, DEBRIS AND DUST. CONTRACTOR TO PROVIDE AND MAINTAIN SUITABLE BARRIERS AS REQUIRED TO PREVENT PUBLIC ENTRY, AND TO PROTECT THE WORK AND ADJACENT PROPERTIES FROM CONSTRUCTION OPERATIONS, AND REMOVE WHEN NO LONGER NEEDED.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC and OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK SHALL BE RELOCATED AS DIRECTED. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING or PIER DRILLING AROUND or NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BY NOT LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING and EXCAVATION.
- ALL MATERIALS SHALL BE DELIVERED TO THE JOB SITE IN THE ORIGINAL CONTAINERS and STORED IN A SAFE, DRY PLACE PROTECTED FROM EXPOSURE TO THE ELEMENTS OR DAMAGE. ALL MATERIALS SHALL BE INSTALLED/APPLIED PER THE MANUFACTURER'S SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE and PAY FOR ALL NECESSARY TEMPORARY WATER and ELECTRIC SERVICES and LIGHTING REQUIRED DURING THE ENTIRE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL SUBMIT TO DEPARTMENT OF LAND AND NATURAL RESOURCES' PROJECT ENGINEER FOR ARCHITECT'S REVIEW, REQUIRED SUBMITTALS INCLUDING SHOP DRAWINGS and SAMPLES.
- THE GENERAL CONTRACTOR, HIS SUBCONTRACTORS, AND ANY OTHER CONTRACTOR INVOLVED IN THIS PROJECT SHALL TAKE NOTE THAT ANY COST CAUSED BY DEFECTIVE OR ILL TIMED WORK, AS A RESULT OF, BUT NOT LIMITED TO INFERIOR WORKMANSHIP OR MATERIALS, IMPROPER SCHEDULING OR DELINQUENT ORDERING SHALL BE BORNE BY THE PARTY DEEMED RESPONSIBLE.
- THE CONTRACTOR SHALL PAY FOR ALL PERMITS and FEES AND ARRANGE FOR ALL GOVERNMENT INSPECTIONS/APPROVALS AS REQUIRED and SHALL SECURE THE CERTIFICATE OF OCCUPANCY. PROVIDE COPIES TO THE ARCHITECT/OWNER.
- PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL FURNISH A CONSTRUCTION SCHEDULE SHOWING THE CHRONOLOGICAL PHASES OF HIS WORK, AND ALL RELATED WORK FOR THE COMPLETION OF THE PROJECT. THIS SCHEDULE SHALL INDICATE ALL ORDERING LEAD TIME, LENGTH OF TIME FOR EACH PHASE, AND THE PROJECT COMPLETION DATE.
- THE GENERAL CONTRACTOR SHALL FURNISH FIELD PROGRESS REPORTS TO THE ARCHITECT FOR ALL PHASES OF CONSTRUCTION.
- GENERAL CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS, EQUIPMENT & FRAMING WEIGHT PRIOR TO LIFT and NUMBER OF ADDITIONAL LIFTS REQUIRED (IF ANY) FOR MISCELLANEOUS MATERIALS.
- THE CONTRACTOR SHALL TEST, ADJUST and BALANCE ALL SYSTEMS and PROVIDE COPIES OF TEST REPORTS and OPERATING INSTRUCTIONS TO OWNER.
- THE CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH TWO (2) SETS OF REPRODUCIBLE AS-BUILT DRAWINGS. CLEARLY INDICATE REVISIONS TO THE ORIGINAL CONTRACT DRAWINGS.
- 2006 NFPA 1 - 16.1.1 STRUCTURES UNDERGOING CONSTRUCTION, ALTERATION OR DEMOLITION OPERATIONS, INCLUDING THOSE IN UNDERGROUND LOCATIONS, SHALL COMPLY WITH NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS, AND THIS CHAPTER.

# ABBREVIATIONS

|            |                           |          |                               |       |                  |
|------------|---------------------------|----------|-------------------------------|-------|------------------|
| ACoust     | ACOUSTICAL                | HSKG     | HOUSEKEEPING                  | VERT  | VERTICAL         |
| ACT        | ACOUSTIC CEILING TILE     | HT       | HEIGHT                        | VIF   | VERIFY IN FIELD  |
| ADJ        | ADJACENT / ADJUSTABLE     | ID       | INTERIOR DESIGN /             | W     | WITH             |
| AFF        | ABOVE FINISH FLR          | IGMFS    | INSIDE DIAMETER               | W/INS | WAINSCOT         |
| ALUM       | ALUMINUM                  | IGMFS    | INTERIOR GLAZED METAL         | WC    | WATER CLOSET     |
| APPROX     | APPROXIMATE               | INSUL    | FRAME SYSTEM                  | WD    | WOOD             |
| ASB        | ASBESTOS                  | INT      | INSULATION                    | WDW   | WINDOW           |
|            |                           | INT      | INTERIOR                      | WO    | WITHOUT          |
| BD         | BOARD                     | JNT      | JOINT                         | WP    | WATER PROOF      |
| BI         | BUILT IN                  |          |                               | WR    | WASTE RECEPTACLE |
| BLDG       | BUILDING                  |          |                               | WT    | WEIGHT           |
| BLKG       | BLOCK(ING)                | L        | LENGTH                        |       |                  |
| BM         | BEAM                      | LAB      | LABORATORY                    | &     | AND              |
| BO         | BOTTOM OF                 | LAM      | LAMINATE(D)                   | #     | POUNDS           |
| BOT        | BOTTOM                    | LAV      | LAVATORY                      |       |                  |
| BS         | BOTH SIDES                | LT       | LIGHT                         |       |                  |
|            |                           |          |                               |       |                  |
| CB         | CATCH BASIN               | MAX      | MAXIMUM                       |       |                  |
| CER        | CERAMIC                   | MECH     | MECHANICAL                    |       |                  |
| CH         | CEILING HEIGHT            | MEOS     | MEDICATIONS                   |       |                  |
| CIP        | CAST-IN-PLACE             | MET      | METAL                         |       |                  |
| CJ         | CONSTRUCTION JOINT        | MFR      | MANUFACTURER                  |       |                  |
| CLG        | CEILING                   | MH       | MANHOLE                       |       |                  |
| CLOS       | CLOSET                    | MIN      | MINIMUM                       |       |                  |
| CLR        | CLEAR                     | MIRR     | MIRROR                        |       |                  |
| COL        | COLUMN                    | MISC     | MISCELLANEOUS                 |       |                  |
| CONF       | CONFERENCE                | MOD      | MODULAR                       |       |                  |
| CONN       | CONNECTION                | MTD      | MOUNTED                       |       |                  |
| CONSTR     | CONSTRUCTION              | MTG      | MOUNTING                      |       |                  |
| CONSULT    | CONSULTATION              | MULL     | MULLION                       |       |                  |
| CONT       | CONTINUOUS                |          |                               |       |                  |
| CORR       | CORRIDOR                  | NC       | NOT IN CONTRACT               |       |                  |
| CR         | CRASH RAIL                | NO       | NUMBER                        |       |                  |
| CT         | CERAMIC TILE              | NOM      | NOMINAL                       |       |                  |
| CTR        | CENTER                    | NTS      | NOT TO SCALE                  |       |                  |
| CTSK       | COUNTERSUNK               |          |                               |       |                  |
|            |                           | O/       | ON/                           |       |                  |
| DBL        | DOUBLE                    | OVER     | OVER                          |       |                  |
| DEPT       | DEPARTMENT                | OBSERV   | OBSERVATION                   |       |                  |
| DET        | DETAIL                    | OC       | ON CENTER                     |       |                  |
| DIA        | DIAMETER                  | OD       | OUTSIDE DIAMETER              |       |                  |
| DIM        | DIMENSION                 | OFCI     | OWNER FURNISHED               |       |                  |
| DISP       | DISPENSER                 | OFOI     | CONTRACTOR INSTALLED          |       |                  |
| DN         | DOWN                      | OPP      | OWNER FURNISHED               |       |                  |
| DR         | DOOR                      |          | OWNER INSTALLED               |       |                  |
| DS         | DOWN SPOUT                |          | OPPOSITE                      |       |                  |
| DWG        | DRAWING                   | PL       | PLATE/PROPERTY LINE           |       |                  |
| DWR        | DRAWER                    | PLAM     | PLASTIC LAMINATE              |       |                  |
|            |                           | PLAS     | PLASTER                       |       |                  |
| EA         | EACH                      | PLYWD    | PLYWOOD                       |       |                  |
| EFS        | EXTERIOR FINISH SYSTEM    | PP       | PRECAST PANEL                 |       |                  |
| EGMFS      | EXTERIOR GLAZED METAL     | PR       | PAIR                          |       |                  |
| EIGFS      | EXTERIOR INSULATION       | PTD      | PAPER TOWEL DISPENSER/PAINTED |       |                  |
| EIFS       | FINISHING SYSTEM          | PTD/R    | PTD & WASTE RECEPTACLE        |       |                  |
| EJ         | EXPANSION JOINT           | PTN      | PARTITION                     |       |                  |
| EL         | ELEVATION                 |          |                               |       |                  |
| ELEC       | ELECTRICAL                | R        | RADIUS                        |       |                  |
| ELEV       | ELEVATOR                  | RECEPT   | RECEPTION                     |       |                  |
| EMER       | EMERGENCY                 | REFL     | REFLECTED                     |       |                  |
| ENCL       | ENCLOSURE                 | REFR     | REFRIGERATOR                  |       |                  |
| EQ         | EQUAL                     | REG      | REGISTER                      |       |                  |
| EQUIP      | EQUIPMENT                 | REINF    | REINFORCED                    |       |                  |
| EWC        | ELECTRIC WATERCOOLER      | REQ      | REQUIRED                      |       |                  |
| EXIST, (E) | EXISTING                  | RESIL    | RESILIENT                     |       |                  |
| EXP        | EXPANSION                 | REV      | REVERSED, REVISED             |       |                  |
| EXT        | EXTERIOR                  | RM       | ROOM                          |       |                  |
|            |                           | RO       | ROUGH OUT/ROUGH OPENING       |       |                  |
| FA         | FIRE ALARM                |          |                               |       |                  |
| FB         | FLAT BAR                  | SC       | SOLID CORE                    |       |                  |
| FD         | FLOOR DRAIN               | SCHED    | SCHEDULE                      |       |                  |
| FE         | FIRE EXTINGUISHER         | SD       | SOAP DISPENSER                |       |                  |
| FIN        | FINISH                    | SECT     | SECTION                       |       |                  |
| FIXT       | FIXTURE                   | SG       | SAFETY GLAZING                |       |                  |
| FLR        | FLOOR                     | SHT      | SHEET                         |       |                  |
| FFF        | FROM FIN FLR              | SIM      | SIMILAR                       |       |                  |
| FLASH      | FLASHING                  | SPEC     | SPECIFICATION                 |       |                  |
| FLUOR      | FLUORESCENT               | SQ       | SQUARE                        |       |                  |
| FOC        | FACE OF CONCRETE          | SS, SSTL | STAINLESS STEEL               |       |                  |
| FOF        | FACE OF FINISH            | S/S      | SERVICES SINK                 |       |                  |
| FOS        | FACE OF SLAB/FACE OF STUD | STA      | STATION                       |       |                  |
| FT         | FEET                      | STD      | STANDARD                      |       |                  |
| FTG        | FOOTING                   | STL      | STEEL                         |       |                  |
| FURN       | FURNITURE                 | STOR     | STORAGE                       |       |                  |
| FURR       | FURRING                   | STRL     | STRUCTURAL                    |       |                  |
| FUT        | FUTURE                    | SUSP     | SUSPENDED                     |       |                  |
|            |                           |          |                               |       |                  |
| GA         | GUAGE                     | TEL      | TELEPHONE                     |       |                  |
| GALV       | GALVANIZED                | T&G      | TONGUE & GROOVE               |       |                  |
| GL         | GLASS                     | THK      | THICK                         |       |                  |
| GR         | GRADE                     | TPD      | TOILET PAPER DISPENSER        |       |                  |
| GYP        | GYP SUM                   | TSCD     | TOILET SEAT COVER DISPENSER   |       |                  |
| GWB        | GYP SUM WALL BOARD        | TV       | TELEVISION                    |       |                  |
|            |                           | TOC      | TOP OF CURB                   |       |                  |
| HC         | HOLLOW CORE               | TOW      | TOP OF WALL                   |       |                  |
| H/C        | HANDICAPPED               | TYP      | TYPICAL                       |       |                  |
| HDR        | HANDRAIL                  |          |                               |       |                  |
| HDWD       | HARDWOOD                  | UNFIN    | UNFINISHED                    |       |                  |
| HDWE       | HARDWARE                  | UON      | UNLESS OTHERWISE NOTED        |       |                  |
| HM         | HOLLOW METAL              | UTIL     | UTILITY                       |       |                  |
| HORIZ      | HORIZONTAL                |          |                               |       |                  |

# SYMBOLS



| REVISION NO. | SYM. | DESCRIPTION                                                                         | SHT./OF     | DATE     | APPROVED             |
|--------------|------|-------------------------------------------------------------------------------------|-------------|----------|----------------------|
|              |      | STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION |             |          |                      |
|              |      | MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                          |             |          |                      |
|              |      | GENERAL NOTES,<br>ABBREVIATIONS,<br>SYMBOLS                                         |             |          |                      |
|              |      | DESIGNED:                                                                           | SUBMITTED:  | GC       |                      |
|              |      | DRAWN:                                                                              | DATE:       | 03/15/16 |                      |
|              |      | CHECKED:                                                                            | SCALE:      |          |                      |
|              |      | APPROVED:                                                                           |             |          |                      |
|              |      | CHIEF ENGINEER                                                                      | MAR 23 2016 | DATE     | DRAWING NO.<br>A0.00 |

## ZONING PROJECT DATA

**APPLICANT/ OWNER:** STATE OF HAWAII  
DEPT. OF LAND & NATURAL RESOURCES  
1151 PUNCHBOWL STREET, RM. 221  
HONOLULU, HAWAII 96813

**PROJECT:** DEPT. OF LAND & NATURAL RESOURCES  
MAUI OFFICE ANNEX  
130 MAHALANI STREET  
WAILUKU, MAUI, HAWAII

**TMK:** (2) 3-8-038:057

**ZONING:** R-2 RESIDENTIAL DISTRICT

**HGT. LIMIT:** 30'-0"

**LAND USE:** URBAN DISTRICT

**TYPE OF CONSTRUCTION:** TYPE V-B

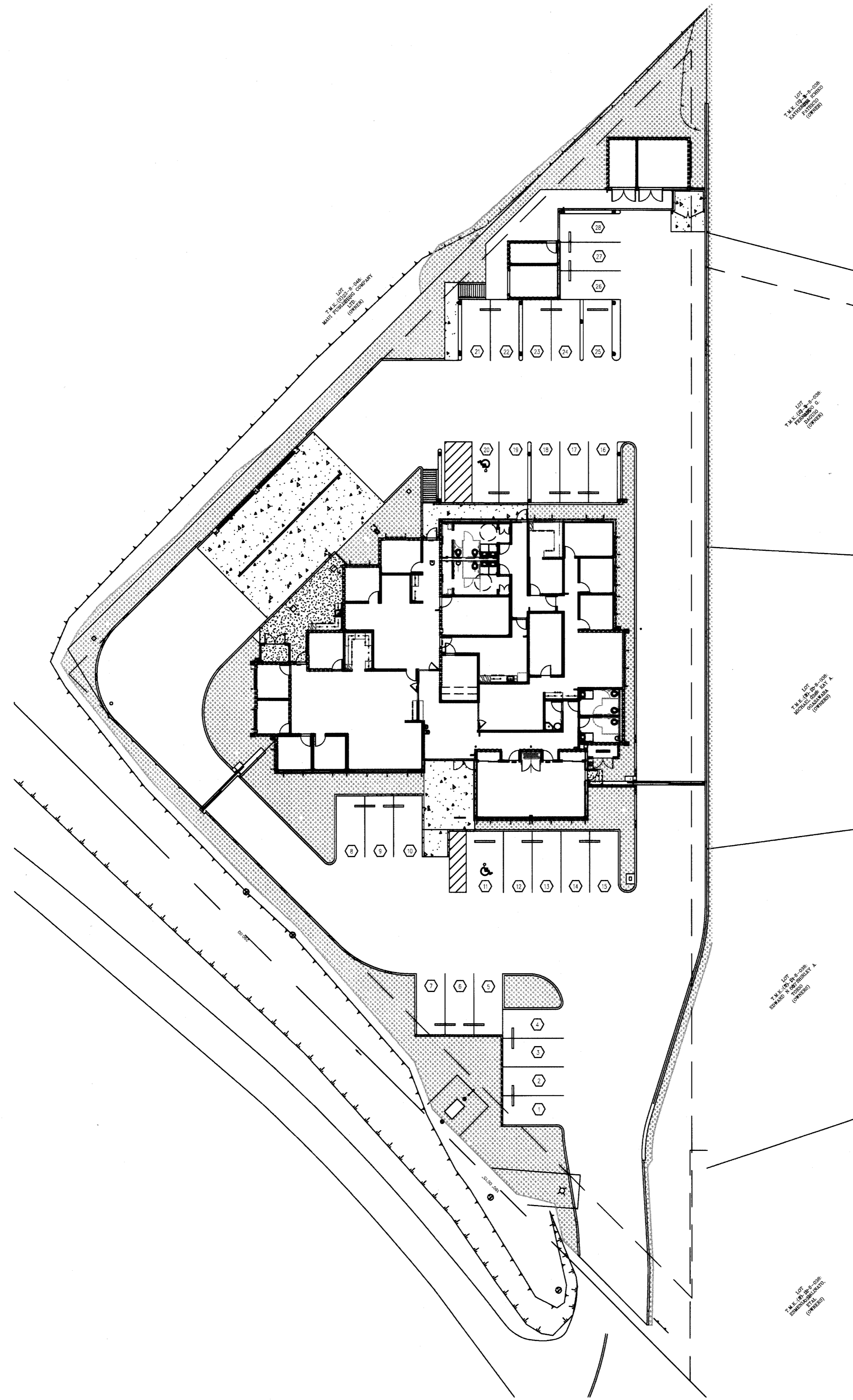
**LOT SIZE:** 42,050 SQ. FT.

**FLOOR AREA CALCULATIONS:**

|                      |                |
|----------------------|----------------|
| MAIN BUILDING        | 7371 SQ. FT.   |
| BACK BUILDINGS       | 643 SQ. FT.    |
| SUB TOTAL            | 8,014 SQ. FT.  |
|                      |                |
| COVERED OPEN PARKING | 2,873 SQ. FT.  |
| COVERED BOAT PARKING | 2,015 SQ. FT.  |
| SUB TOTAL            | 4,888 SQ. FT.  |
|                      |                |
| OVERALL TOTAL        | 12,902 SQ. FT. |

**PARKING CALCS.:** TOTAL STALLS REQ'D: 8,014/500 = 16 STALLS

TOTAL STALLS PROVIDED: 28 > 16 (OK)



① PARKING PLAN  
3/64" = 1'-0"

| REVISION NO.                                                                        | SYM. | DESCRIPTION | SHT./OF                  | DATE | APPROVED                    |
|-------------------------------------------------------------------------------------|------|-------------|--------------------------|------|-----------------------------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION |      |             |                          |      |                             |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                          |      |             |                          |      |                             |
| ZONING CODE INFORMATION                                                             |      |             |                          |      |                             |
| DESIGNED:                                                                           |      |             | SUBMITTED: <i>GL</i>     |      |                             |
| DRAWN:                                                                              |      |             | DATE: 03/15/16           |      |                             |
| CHECKED:                                                                            |      |             | SCALE:                   |      |                             |
| APPROVED: <i>[Signature]</i><br>CHIEF ENGINEER                                      |      |             | DATE: <b>MAR 23 2016</b> |      | DRAWING NO.<br><b>A0.01</b> |



**BUILDING CODE INFORMATION:**

- 1) EDITION OF IBC CODE: 2006 FOR NEW CONSTRUCTION
- 2) CONSTRUCTION TYPE: VB AT B USE GROUP AND S-2 (BACK BUILDING ENCLOSED STORAGE AREAS). IIB AT S-1 (DRY BOAT STORAGE) AND S-2 (OPEN PARKING GARAGES). AUTOMATIC SPRINKLER SYSTEM PER SECTION 903: NO.
- 3) MIXED OCCUPANCY: NO.
- 4) PRIMARY OCCUPANCY CLASSIFICATION PER CHAPTER 3: S-2 (BACK BUILDINGS).
- 5) NON-SEPARATED USE PER SECTION 508.2.2; S-1 MOST RESTRICTIVE AT MAIN BUILDING.
- 6) MAX BUILDING HEIGHT IN FEET PER TABLE 503: 40 FEET
- 7) MAX HEIGHT IN STORIES PER TABLE 503: 40 FEET
- 8) MAX HEIGHT IN STORIES PER TABLE 503: 2 - 1 STORY ACTUAL
- 9) MAX AREA LIMITATION PER STORY PER TABLE 503 (MAIN BUILDING): 9000 S.F.; 12,240 S.F. WITH FRONTAGE INCREASE - 10,660 ACTUAL.
- 10) MAX AREA LIMITATION PER TABLE 503 (BACK BUILDINGS): 13,500 S.F. - 2243 S.F. ACTUAL.
- 11) OCCUPANT LOAD PER SECTION 1004: SEE NET OCCUPANT LOAD AREA PLAN.
- 12) WALL AND CEILING FINISHES (EXIT ENCLOSURES AND EXIT PASSAGEWAYS): B
- 13) WALL AND CEILING FINISHES (CORRIDORS): B
- 14) WALL AND CEILING FINISHES (ROOMS AND ENCLOSED SPACES): C
- 15) MINIMUM ROOF COVERING CLASSIFICATION PER TABLE 1505.1: C

**AREA MODIFICATION FRONTAGE INCREASE PER SECTION 506.2 CALCULATIONS:**

$I_f = [F/P - .025]W/30 = .36$   
 $F = 340' - 4"$   
 $P = 547' - 8"$   
 $W = 9938.62 \text{ SF}/340' - 4" = 29' - 2 \frac{7}{16}"$

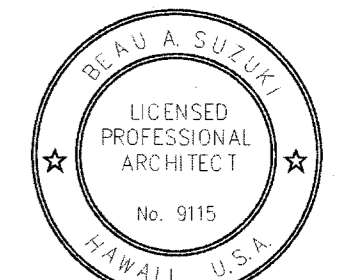
$A_a = (A_t + [A_t X I_f] + [A_t X I_s]) = (9000 \text{ S.F.} + [9000 \text{ S.F.} X .36] + [9000 \text{ S.F.} X 0]) = 12,240 \text{ S.F.}$

$A_t = 9000 \text{ S.F.}$   
 $I_f = 0$  (NO AUTOMATIC SPRINKLER SYSTEM PER SECTION 903)

COUNTY OF MAUI  
MAUI COUNTY CODE, CHAPTER 16.16A  
ENERGY CODE

To the best of my knowledge, this project's design substantially conforms to the Building Energy Conservation Code for:

- Building Component Systems
- Electrical Component Systems
- Mechanical Component Systems



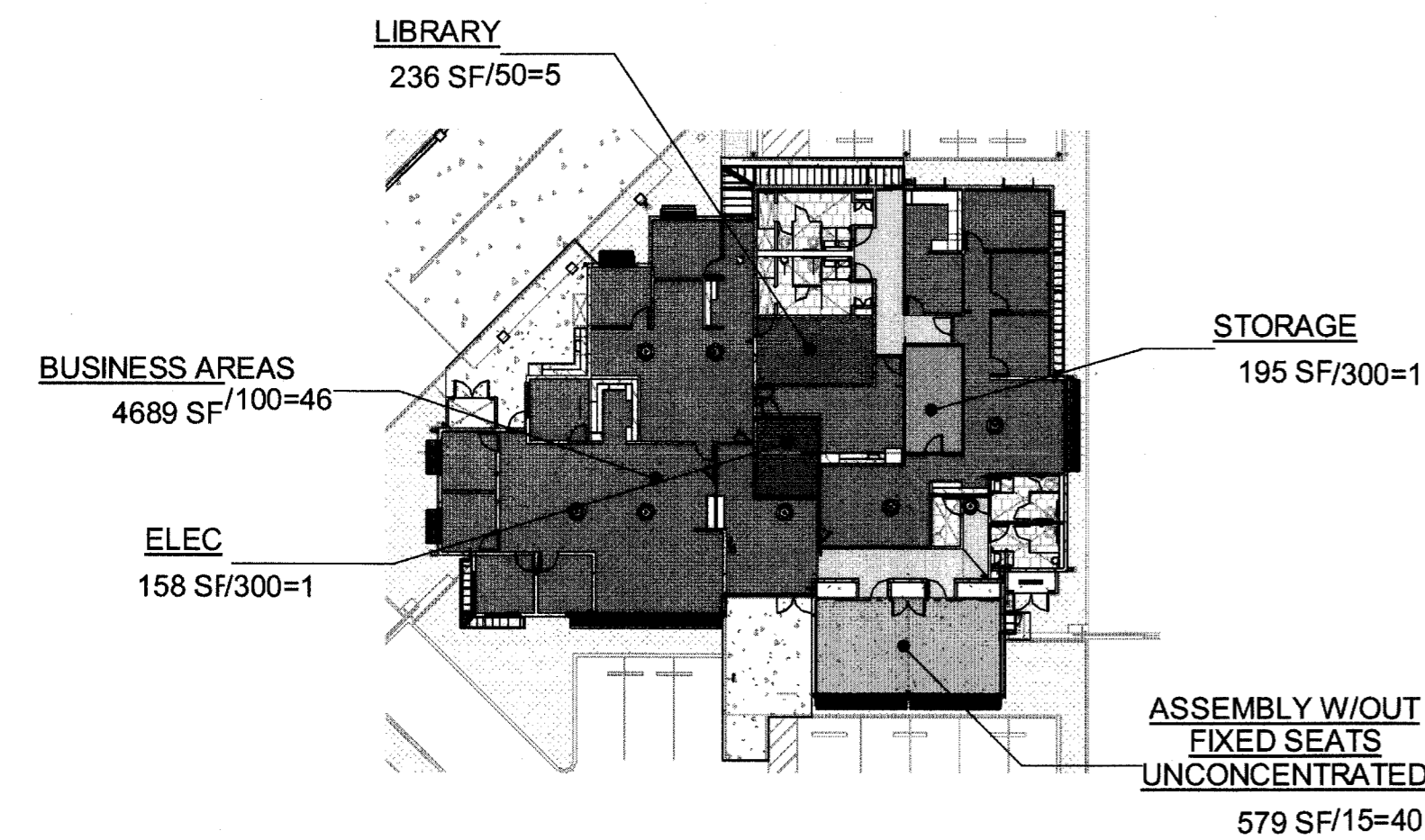
Signature: *Beau A. Suzuki*  
 Name: BEAU A. SUZUKI  
 Title: ARCHITECT  
 License No.: 9115-A

EXPIRATION DATE: 04.30.16  
 Date: January 8, 2016

| REVISION NO.                                                                        | SYM. | DESCRIPTION       | SHT./OF | DATE              | APPROVED |
|-------------------------------------------------------------------------------------|------|-------------------|---------|-------------------|----------|
| STATE OF HAWAII<br>DEPARTMENT OF LAND AND NATURAL RESOURCES<br>ENGINEERING DIVISION |      |                   |         |                   |          |
| MAUI OFFICE ANNEX<br>WAILUKU, MAUI, HAWAII                                          |      |                   |         |                   |          |
| <b>BUILDING CODE INFORMATION</b>                                                    |      |                   |         |                   |          |
| DESIGNED:                                                                           |      | SUBMITTED:        |         |                   |          |
| DRAWN:                                                                              |      | DATE: 03/15/16    |         |                   |          |
| CHECKED:                                                                            |      | SCALE:            |         |                   |          |
| APPROVED:                                                                           |      | DATE: MAR 23 2016 |         | DRAWING NO. A0.02 |          |
| CHIEF ENGINEER                                                                      |      |                   |         |                   |          |

Exp. DATE: April 30, 2016  
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

2 NET OCCUPANT LOAD AREA  
1" = 30'-0"



1 BUILDING AREA  
3/64" = 1'-0"

