

- BUILDING COMPONENT SYSTEMS
- ELECTRICAL COMPONENT SYSTEMS
- MECHANICAL COMPONENT SYSTEMS

SIGNATURE: ALVIN M. YOSHIMORI DATE: XX/XX/2016

NAME: ALVIN M. YOSHIMORI

TITLE: CHAIRMAN

LICENSE NO.: 2714

STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES

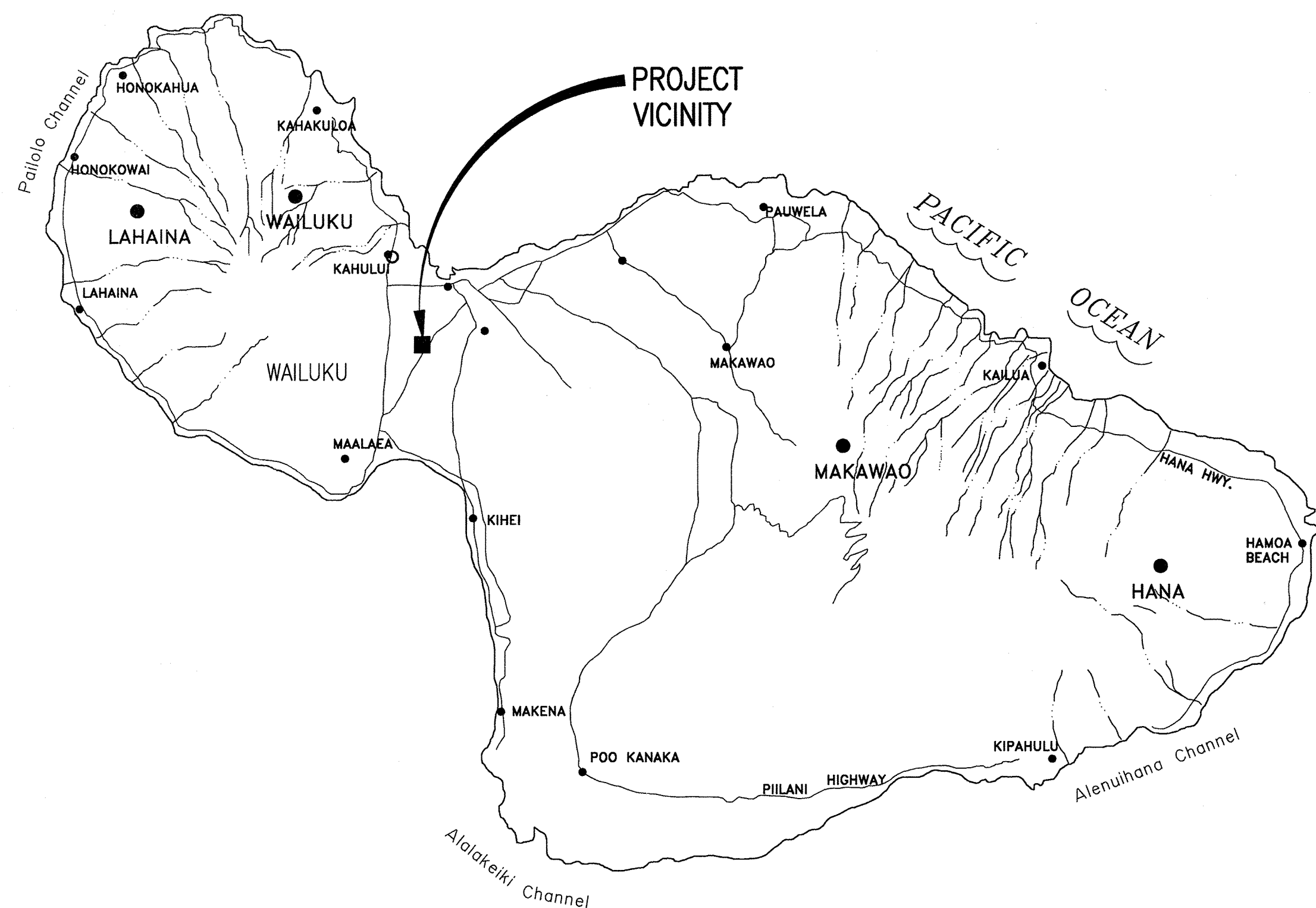
ENGINEERING DIVISION

JOB NO. F93C817D

# CENTRAL MAUI REGIONAL SPORTS COMPLEX PHASE 3

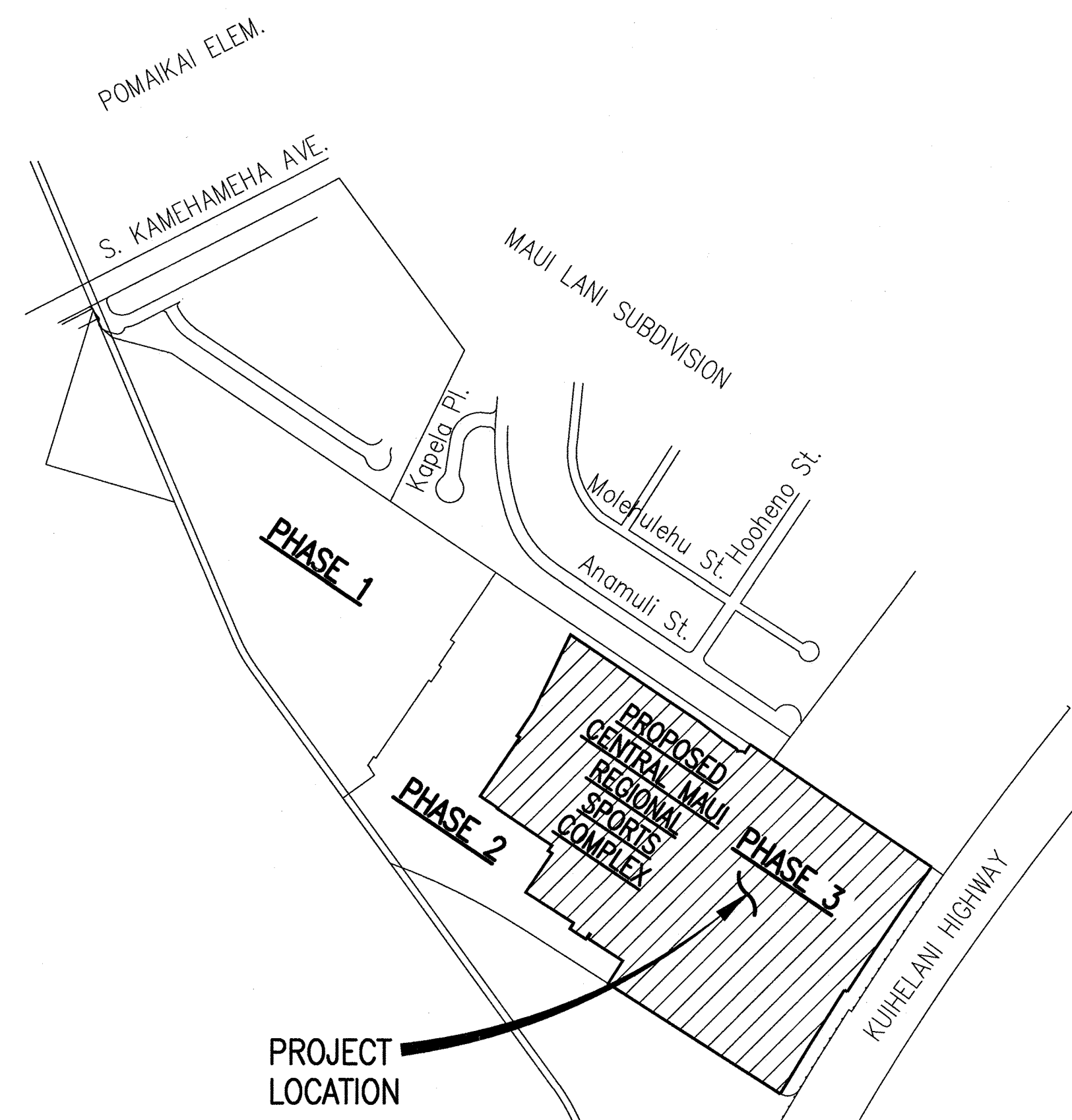
Wailuku, Maui, Hawaii

TMK (2) 3-8-007 : 104



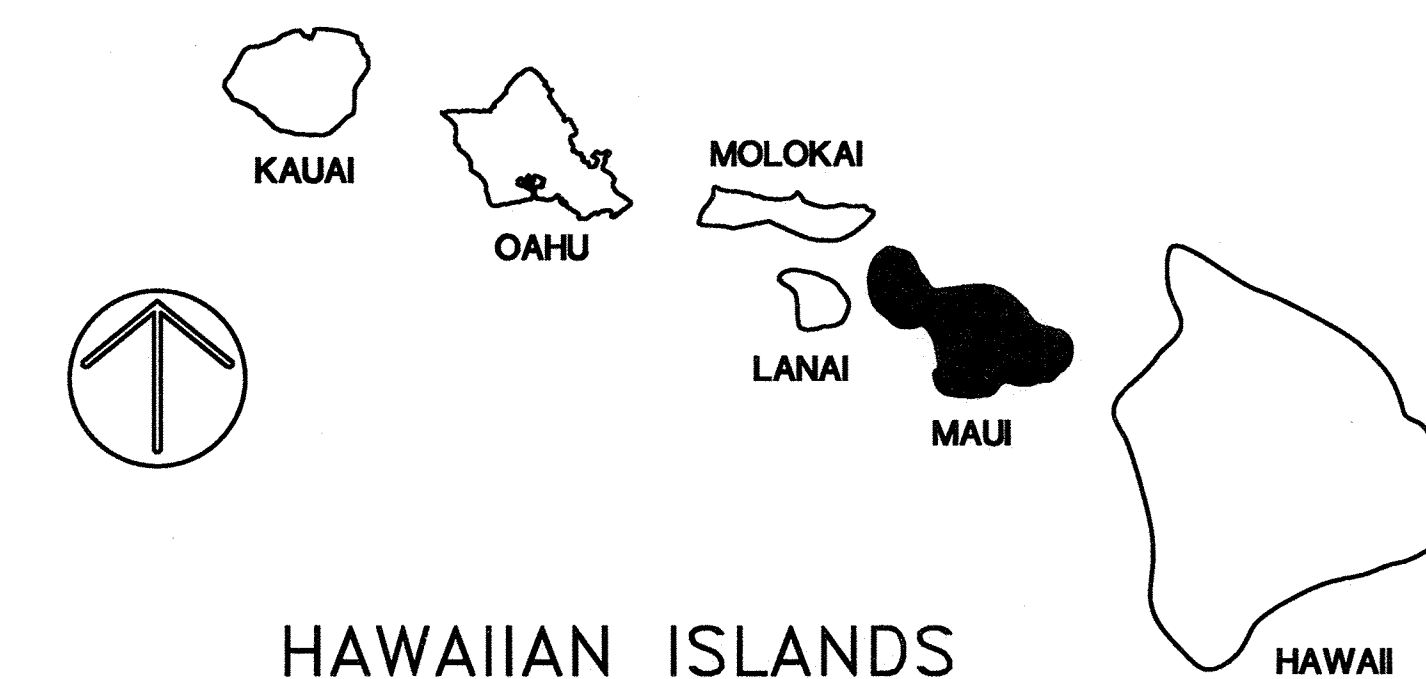
MAUI - VICINITY MAP

NOT TO SCALE



LOCATION MAP

NOT TO SCALE



HAWAIIAN ISLANDS

APPROVED

Carty S. Chang  
CARTY S. CHANG, CHIEF ENGINEER  
ENGINEERING DIVISION  
DEPARTMENT OF LAND AND NATURAL RESOURCES

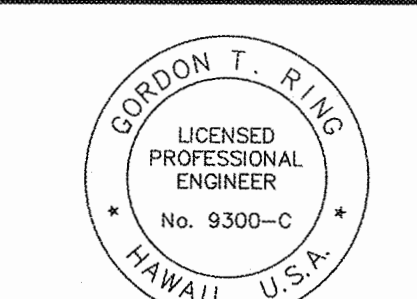
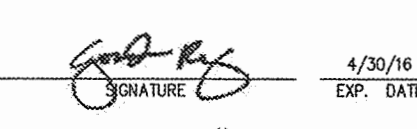
12/22/15  
DATE

Curt A. Cottrell  
CURT A. COTTRELL, ADMINISTRATOR  
DIVISION OF STATE PARKS  
DEPARTMENT OF LAND AND NATURAL RESOURCES

12-22-15  
DATE

# Index of Drawings

Sht No	Dwg No	Description	Sht No	Dwg No	Description	Sht No	Dwg No	Description
<b>General Sheets</b>			<b>Structural</b>			<b>Structural</b>		
1	T-1	Title Sheet	31	S-1	General Notes, Typical Details	65	SB-1	General Notes
2	T-2	Index of Drawings	32	S-2	Sections and Details	66	SB-2	Typical Details
<b>Sitework/Buildings</b>			33	S-3	Drain Manhole D1 and D2 Plans and Sections	67	SB-3	Footing Schedule, Foundation Sections
<b>Civil</b>			34	S-4	Softball/Baseball Dugout Plan and Sections	68	SB-4	Restroom Foundation and Roof Framing Plans, Building Section
3	C-1	Construction Notes - 1	35	S-5	Softball/Baseball Dugout Elevation and Sections	69	SB-5	Concession Foundation and Roof Framing Plans and Building Section
4	C-2	Construction Notes - 2	36	S-6	Backstop Plan	70	SB-6	Typical CMU Details
5	C-3	General Site Plan	37	S-7	Backstop Details	71	SB-7	Roof Framing Sections
6	C-4	Existing Conditions Demolition Plan	38	S-8	Typical Fence Details	72	SB-8	Roof Framing Sections and Truss Elevations
N.I.C.	<del>C-5</del>	<del>Typical Roadway Sections</del>	<b>Landscaping</b>			<b>Mechanical</b>		
7	C-6	Erosion Control Plan	39	L-1	Base Bid Partial Planting Plan - 1	73	P-1	Plumbing Plans, Diagrams, Notes, Legend
8	C-7	Erosion Control Notes & Details	40	L-2	Base Bid Partial Planting Plan - 2	74	P-2	Concession/Restroom Floor Plan - Plumbing and Plumbing Diagrams
N.I.C.	<del>C-8</del>	<del>Access Road Plan &amp; Profile - 1</del>	41	L-3	Planting Notes	75	P-3	Equipment Schedule, Details, Water Calculations
N.I.C.	<del>C-9</del>	<del>Access Road Plan &amp; Profile - 2</del>	42	L-4	Planting Details - 1			
N.I.C.	<del>C-10</del>	<del>Access Road Plan &amp; Profile - 3</del>	43	L-5	Planting Details - 2			
N.I.C.	<del>C-11</del>	<del>Access Road Plan &amp; Profile - 4</del>	<b>Irrigation</b>			<b>Electrical</b>		
N.I.C.	<del>C-12</del>	<del>Access Road Plan &amp; Profile - 5</del>	44	IR-4	Irrigation Plan 4	76	E-1	Electrical Site Plan, Notes & Details
N.I.C.	<del>C-13</del>	<del>Access Road Plan &amp; Profile - 6</del>	45	IR-5	Irrigation Plan 5	77	E-2	Partial Electrical Site Plan
N.I.C.	<del>C-14</del>	<del>Access Road Plan &amp; Profile - 7</del>	46	IR-6	Irrigation Plan 6	78	E-3	Partial Electrical Site Plan
N.I.C.	<del>C-15</del>	<del>Access Road Plan &amp; Profile - 8</del>	47	IR-7	Irrigation Plan 7	79	E-4	Partial Electrical Site Plan
N.I.C.	<del>C-16</del>	<del>Well Site Access Plan &amp; Profile</del>	48	IR-8	Irrigation Details	80	E-5	Partial Electrical Site Plan
N.I.C.	<del>C-17</del>	<del>Site Plan - 1</del>	49	IR-9	Weather Station/Grounding Details	81	E-6	Partial Electrical Site Plan
9	C-18	Site Plan - 2	50	IR-10	Pump Station/CCU Details	82	E-7	Partial Electrical Site Plan
10	C-19	Site Plan - 3	51	IR-11	Irrigation Notes and Legend	83	E-8	Baseball Field Electrical Lighting Plans
11	C-20	Site Plan - 4	<b>Architectural</b>			84	E-9	Concession Electrical Power and Lighting
12	C-21	Site Plan - 5	52	A-1	Project Data, Notes, Abbrev	85	E-10	Concession Panel Schedule and Notes
13	C-21A	Jointing Plan	53	A-2	Concession Floor, RCP, Roof Plan	86	E-11	Restroom Electrical Power and Lighting
N.I.C.	<del>C-22</del>	<del>Utility Plan - 1</del>	54	A-3	Restroom Floor, RCP, Roof Plan	87	E-12	Restroom Luminaire Schedule
14	C-23	Utility Plan - 2	N.I.C.	<del>A-4</del>	<del>Large Scorers Booth Floor, RCP, Roof Plan</del>	88	E-13	Metering Switchboard Single Line Diagrams
N.I.C.	<del>C-24</del>	<del>Utility Plan - 3</del>	N.I.C.	<del>A-4A</del>	<del>Small Scorers Booth Floor, RCP, Roof Plan</del>	89	E-14	Utility Details
N.I.C.	<del>C-25</del>	<del>Utility Plan - 4</del>	55	A-5	Concession Elevations and Sections	90	E-15	Utility and County Notes and Panels
15	C-26	Utility Plan - 5	56	A-6	Restroom Elevations and Paint Schedules			
16	C-27	Grading Plan - 1	N.I.C.	<del>A-7</del>	<del>Large Scorers Booth Elevations and Sections</del>			
17	C-28	Grading Plan - 2	N.I.C.	<del>A-7A</del>	<del>Small Scorers Booth Elevations and Sections</del>			
18	C-29	Grading Plan - 3	57	A-8	Wall Sections			
19	C-30	Grading Plan - 4	58	A-9	Concession Interior Elevations			
20	C-31	Grading Plan - 5	59	A-10	Restroom Interior Elevations			
N.I.C.	<del>C-32</del>	<del>Grading Plan - 6</del>	N.I.C.	<del>A-11</del>	<del>Scorers Booth Interior Elevations</del>			
21	C-33	Grading Plan - 7	60	A-12	Room Finish Schedule, ADA Mounting Height			
N.I.C.	<del>C-34</del>	<del>Grading Plans B, C, D</del>	61	A-13	Door Schedules and Types, Int. Paint Schedule			
N.I.C.	<del>C-35</del>	<del>Grading Plan E</del>	62	A-14	Door Details			
N.I.C.	<del>C-36</del>	<del>Grading Plan ADA Ramp</del>	63	A-15	Details			
N.I.C.	<del>C-37</del>	<del>Drainline Profiles - 1</del>	64	A-16	Details			
N.I.C.	<del>C-38</del>	<del>Drainline Profiles - 2</del>						
N.I.C.	<del>C-39</del>	<del>Driveway Profiles</del>						
N.I.C.	<del>C-40</del>	<del>Waterline Profiles</del>						
22	C-41	Site Sections - 1						
23	C-42	Site Sections - 2						
N.I.C.	<del>C-43</del>	<del>Signing &amp; Striping - 1</del>						
N.I.C.	<del>C-44</del>	<del>Signing &amp; Striping - 2</del>						
N.I.C.	<del>C-45</del>	<del>Signing &amp; Striping - 3</del>						
N.I.C.	<del>C-46</del>	<del>Baseball Field Layout</del>						
N.I.C.	<del>C-47</del>	<del>Softball Field Layout</del>						
24	C-48	Youth Baseball Field Layout - Field 1						
25	C-49	Youth Baseball Field Layout - Field 2						
26	C-50	Youth Baseball Field Layout - Fields 3						
27	C-51	Drainage Details						
28	C-52	Sewer Details						
N.I.C.	<del>C-53</del>	<del>Signing &amp; Striping Details</del>						
29	C-54	Cattle Gate Details						
30	C-55	Miscellaneous Details						

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
					
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION <b>CENTRAL MAUI REGIONAL SPORTS COMPLEX</b> PHASE 3 WAILUKU, MAUI, HAWAII <b>INDEX OF DRAWINGS</b>					
DESIGNED: GR/NN/JP		SUBMITTED: ---			
DRAWN: GR/NN/JP		DATE: DECEMBER 2015			
CHECKED: GTR		SCALE: AS SHOWN			
APPROVED: 		R.M. TOWILL CORPORATION		DEC 22 2015	
CHIEF ENGINEER		DRAWING NO. T-2		DATE	



**General Construction Notes**

- All construction work shall conform to the standard details for Public Works Construction, Sept. 1984 and the Standard Specifications for Public Works Construction, Sept. 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.
- The aerial survey shown within the construction documents were prepared by the R.M. Towill Corporation on December 18, 2012. Topographic conditions/features/elevations shown on the aerial survey were based on photographs taken at 3,000 feet above the ground surface and limited ground survey. The aerial survey shown was prepared to National Mapping Standards. The Contractor shall base bids on the above information. No additional compensation will be allowed for grade discrepancies that fall within the National Mapping Standards tolerances.
- The Contractor is responsible for obtaining right-of-entry from property owners/lessees as needed. The contractor shall add property owners/lessees on the liability insurance as additional insured. If the right-of-entry is not processed by the State, the contractor shall procure all right-of-entry at no costs to the State.
- Standard detail drawings and standard specifications of the Department of Public Works shall be included as part of the construction plans.
- All construction work shall strictly conform to the latest version of the Hawaii Standard Specifications for Road and Bridge Public Works Construction, and the September 1984 "Standard Details" for Public Works Construction of the Department of Public Works, as amended.
- 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 protection devices for the protection, safety, and convenience of the public, according to the latest version of the "Manual on Uniform Traffic Control Device for Streets and Highways", and to the rules and regulations governing the use of traffic control devices at worksites and/or adjacent to public streets and highways adopted by the Highway Safety Coordinator and the U.S. Federal Highway Administration "Manual on Uniform Traffic Control Devices for Highway Construction and Maintenance Operations".
- The contractor shall, at his own expense, keep the project area and surrounding are free from dust nuisance. The work shall be in conformance with Air Pollution Control Standards and Regulations 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 remedial action ordered by the State shall be paid by the contractor.

**General Construction Notes (Cont'd)**

- Construction debris and wastes shall be deposited at an appropriate work site. The contractor shall inform the State of the location of the disposal sites. The disposal site must fulfill the requirements of the grading ordinance.
- If the clearance between a wastewater line and a new or existing waterline is eighteen inches (18") or less, the wastewater line shall be concrete-jacketed in accordance with the Standard Details of Public Works Construction dated September 1984, as amended.
- 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.
- Wheelchair ramp inspection/certification forms shall be required for all newly constructed ramps.
- 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 lift;
    - Aggregate Subbase Course: one (1) compaction test per 400 square yards; one (1) gradation and sand equivalent test per lift per project;
    - Aggregate Base Course: one (1) compaction test per 300 square yards; one (1) gradation and sand equivalent test per lift per project;
    - Asphalt Concrete Pavement or Asphalt Treated Base Course: three (3) A.C. cores for thickness and density tests per project;
    - Trench Backfill Material: one (1) test for each 300 lineal feet of trench per lift of material.
  - Contractor shall submit all testing 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

**Grading Notes**

- All grading work shall conform to Title 20 of the Maui County Code and Soils Report by Geolabs, Inc. entitled "Geotechnical Engineering Exploration Central Maui Regional Park" dated February 4, 2013. 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 were compiled from survey conducted by R.M. Towill Corporation on December 12, 2012. The contractor shall examine the site and take whatever measures necessary to verify conditions existing in the field with no added cost to the State.
- 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 contractor.
- Life of the stockpile shall be 12 months.  
 Earthwork:  
 Distance from top of cut or bottom of fill to property line:  

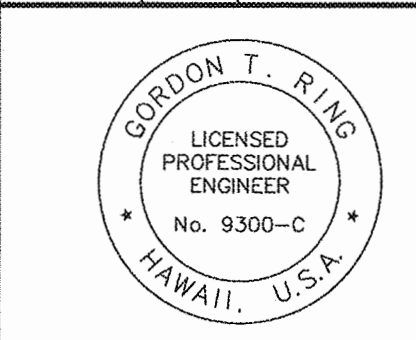
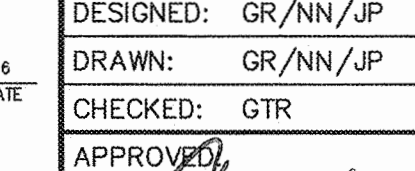
Height of Cut or Fill	Distance from Property Line
0' to 2'	1'
more than 2' to 4'	2'
more than 4' to 6'	3'
more than 6' to 10'	4'
more than 10' to 15'	5'
more than 15'	8'

**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.
- 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 2% slope per plumbing code, unless approved otherwise.
- 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.
- 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.
  - Meet the hydrostatic pressure test and the loading test as specified in section 18 of the "Standard Specifications for Public Works Construction," dated September 1986.
- 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.
- 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.
- Building plumbing facilities shall be controlled by sewer lateral inverts.
- The contractor shall be responsible for maintaining continuous sewer service to all affected areas during construction.

**Sewer Notes (Cont'd)**

- 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.
- The contractor shall install "rainstopper" manhole inserts in all sewer manholes with type "SA" frame and cover.
- All sewer pipe joints within easements shall be wrapped with geotextile root barrier.
- 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.

REVISION NO.	SYMBOL	DESCRIPTION	SHT./OF	DATE	APPROVED
					
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION CENTRAL MAUI REGIONAL SPORTS COMPLEX PHASE 3 WAILUKU, MAUI, HAWAII <b>CONSTRUCTION NOTES - 1</b>					
DESIGNED: GR/NN/JP		SUBMITTED: --			
DRAWN: GR/NN/JP		DATE: XX 2015			
CHECKED: GTR		SCALE: AS SHOWN			
APPROVED: 				R. M. TOWILL CORPORATION CHIEF ENGINEER	
				DEC 2 2 2015 DATE	
				<b>C-1</b>	



**Archaeological Notes**

1. If, during construction, any archaeological sites or remains (such as artifacts, shell, bone, or charcoal deposits, human burials, rock or coral alignments, pavings, or walls) are encountered, the contractor shall stop work and contact the construction manager immediately. Work in the immediate area shall be stopped until the owner is able to assess the impact and make recommendations for mitigative activity.
2. All trenching and excavation work in the archaeological site(s) shall be monitored by an archaeologist retained by the contractor for this project.

**Public Health, Safety And Convenience**

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 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.
4. 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 remedial action by the county shall be payable by the contractor.
5. 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.

**Temporary Erosion Control Notes**

1. 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.
2. No grading work shall commence until temporary erosion controls (berms, silt fences, inlet filters, etc.) are in-place.
3. The contractor shall minimize the amount of land to be exposed at any one time.
4. Grassing of all exposed areas susceptible to erosion shall be done immediately after final grades are established.
5. 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 last disturbance.
6. All new embankment work shall be compacted by the end of each work day to minimize erosion and dust.

**Temporary Erosion Control Notes (Cont'd)**

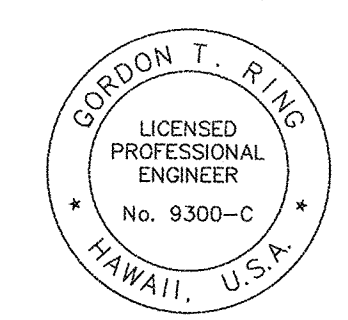

7. Temporary filter socks shall be installed for perimeter runoff control at locations shown on plan and as designated by the engineer. Additional measures shall be installed as necessary to capture sediment and minimize the amount of sediment leaving the project site.
8. The contractor shall provide a stabilized construction entrance consisting of 8" thick #2 crushed rock for ingress and egress to roadways.
9. During each storm event that generates runoff from the site, the contractor shall visually inspect the water quality for turbidity and sediment. The contractor shall add and make adjustments to the bmps to protect adjacent properties and nearby waterbodies.
10. Temporary erosion controls shall not be removed before permanent erosion controls are in-place and established.
11. Potable water use for dust control shall be prohibited.
12. The contractor shall monitor weather patterns and avoid work along drainageways if rainy weather is imminent.
13. Sand bags, filters, silt fences, rock dams and/or other measures shall be used to protect the work site and excavated areas from erosion and damage due to runoff.
14. 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.
15. Temporary stockpiles shall be stabilized with grass and/or mulch or covered appropriately to prevent dust and erosion.
16. On-site drainage shall be handled in such a way to 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.
17. 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.
18. 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.

**Environmental Protection Notes**

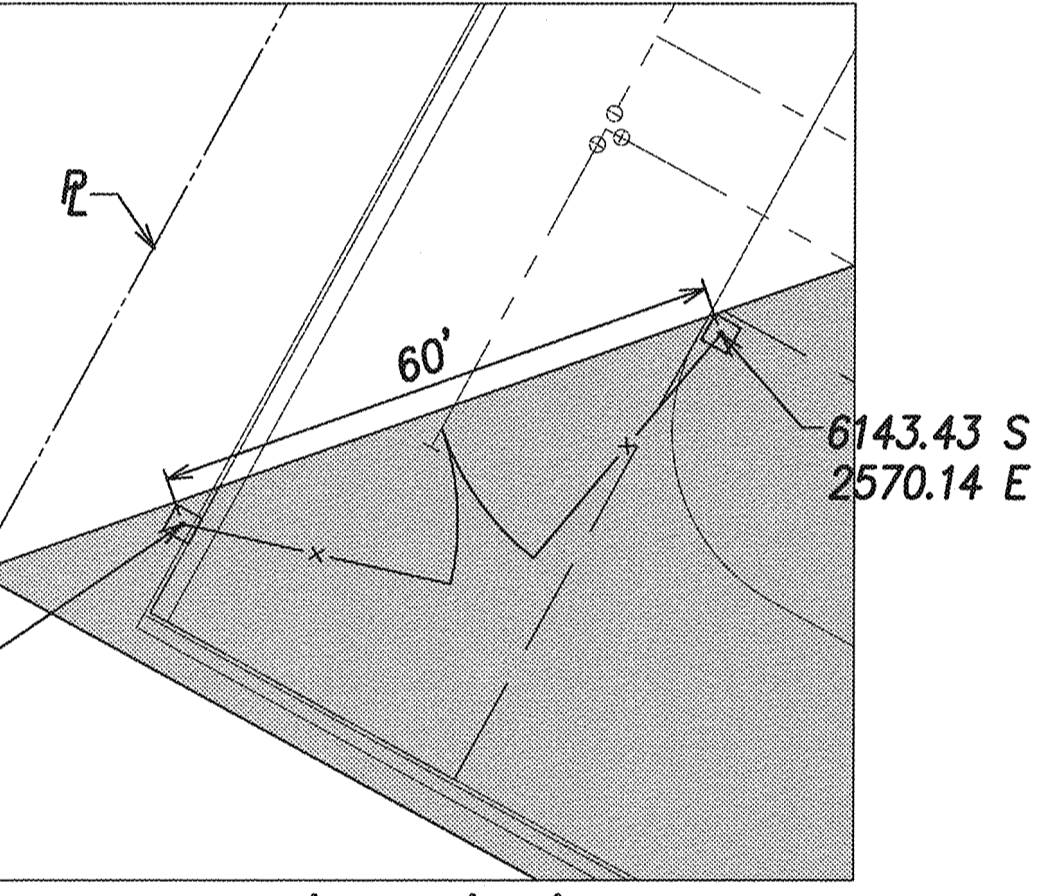
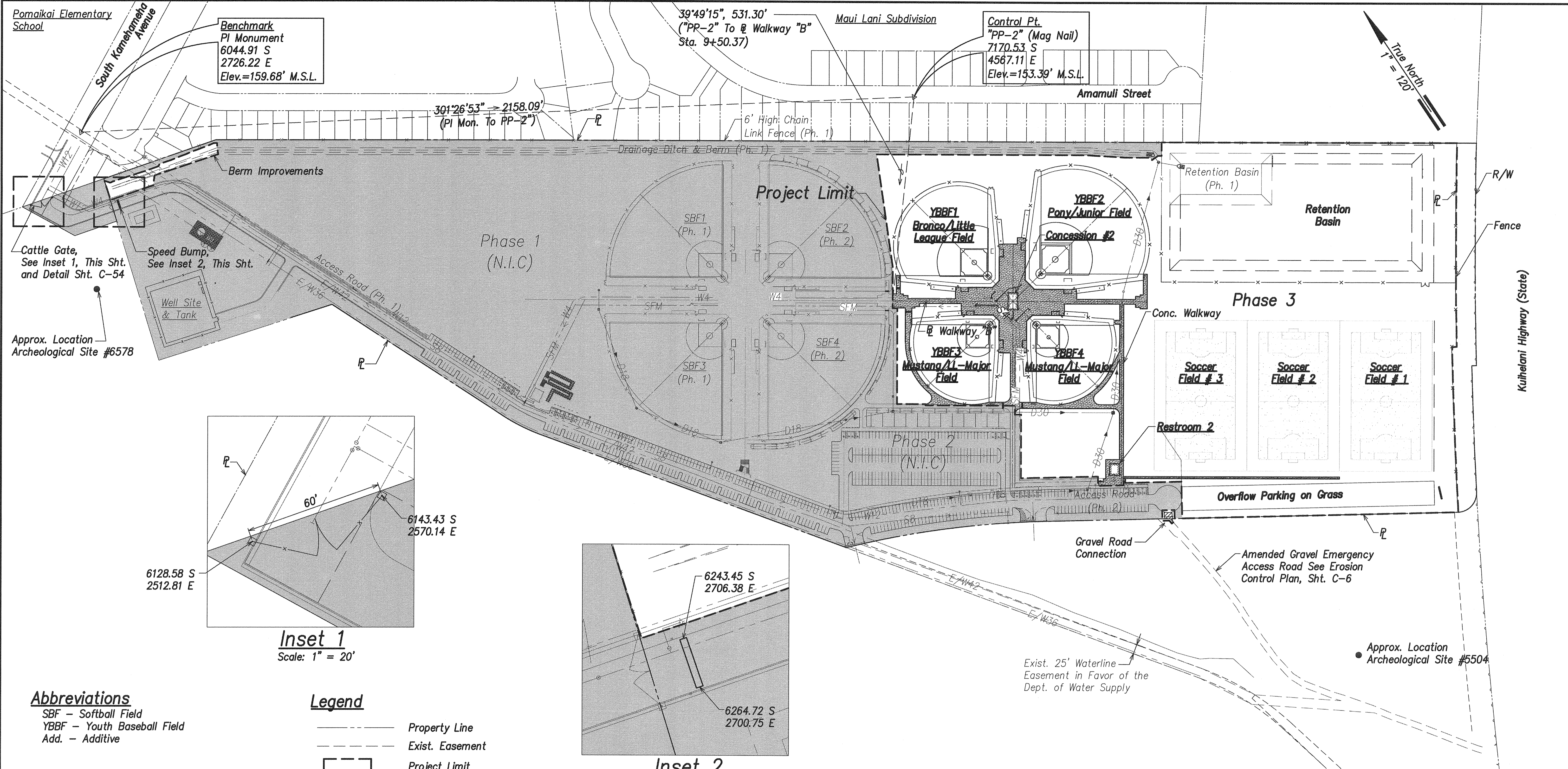
1. In accordance with chapter 11-60.1, Air Pollution Control, title 11, State Administrative Rules, the property owner/developer shall be responsible for ensuring that effective control measures are provided to minimize or prevent any visible dust emission caused by the construction work from impacting 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, State 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, State 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.

**(2004 ADAAG) Americans with Disabilities Act Accessibility Guidelines**

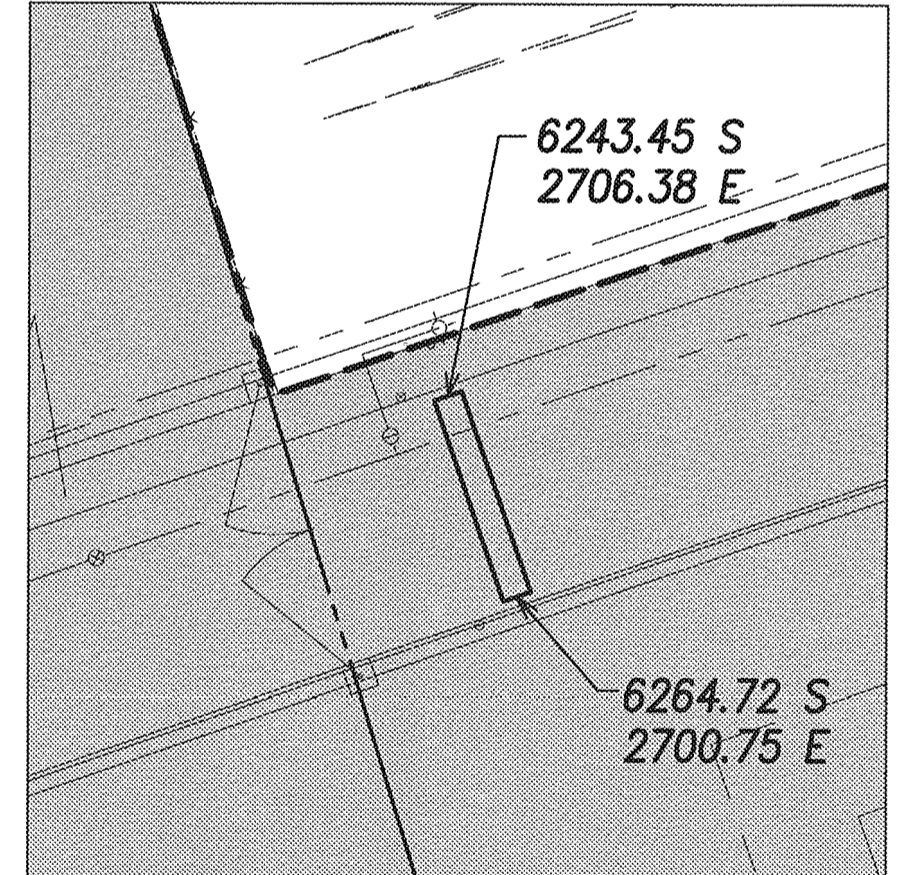
1. All new sidewalk and walkway cross slopes shall be defined as the direction perpendicular to the prevalent pedestrian flow of travel. No where shall the cross slope of an accessible route exceed 1:48 per ADAAG 403.3.
2. All walks, halls, corridors, aisles, sky walks, tunnel and other spaces that are 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.

REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION <b>CENTRAL MAUI REGIONAL SPORTS COMPLEX</b> <b>PHASE 3</b> WAILUKU, MAUI, HAWAII <b>CONSTRUCTION NOTES - 2</b>					
					
<small>THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.</small>					
DESIGNED: GR/NN/JP DRAWN: GR/NN/JP CHECKED: GTR		SUBMITTED: -- DATE: XX 2015 SCALE: AS SHOWN			
APPROVED:  <b>R. M. TOWILL CORPORATION</b> CHIEF ENGINEER		DEC 22 2015 DATE		DRAWING NO. <b>C-2</b>	





**Inset 1**  
Scale: 1" = 20'



**Inset 2**  
Scale: 1" = 20'

**Abbreviations**

- SBF - Softball Field
- YBBF - Youth Baseball Field
- Add. - Additive

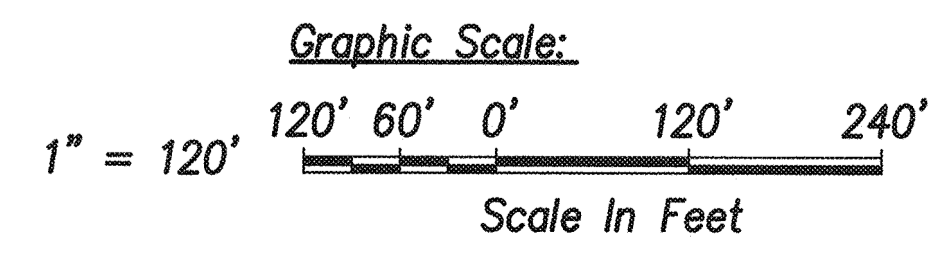
**Legend**

- Property Line
- Exist. Easement
- Project Limit
- N.I.C. (Ph. 1 & Ph. 2)
- ▨ Concrete Walkway
- ▨ Protective Canopy
- W4- Water Line & Size
- SFM- Sewer Force Main
- D18- Drain Line & Size
- W4- Existing Water Line & Size
- SFM- Existing Sewer Force Main
- D18- Existing Drain Line & Size

**Phase 3 Parking Stall Summary**

Overflow Stalls 154  
Total Parking Stall Count 154

**General Site Plan**  
Scale: 1" = 120'



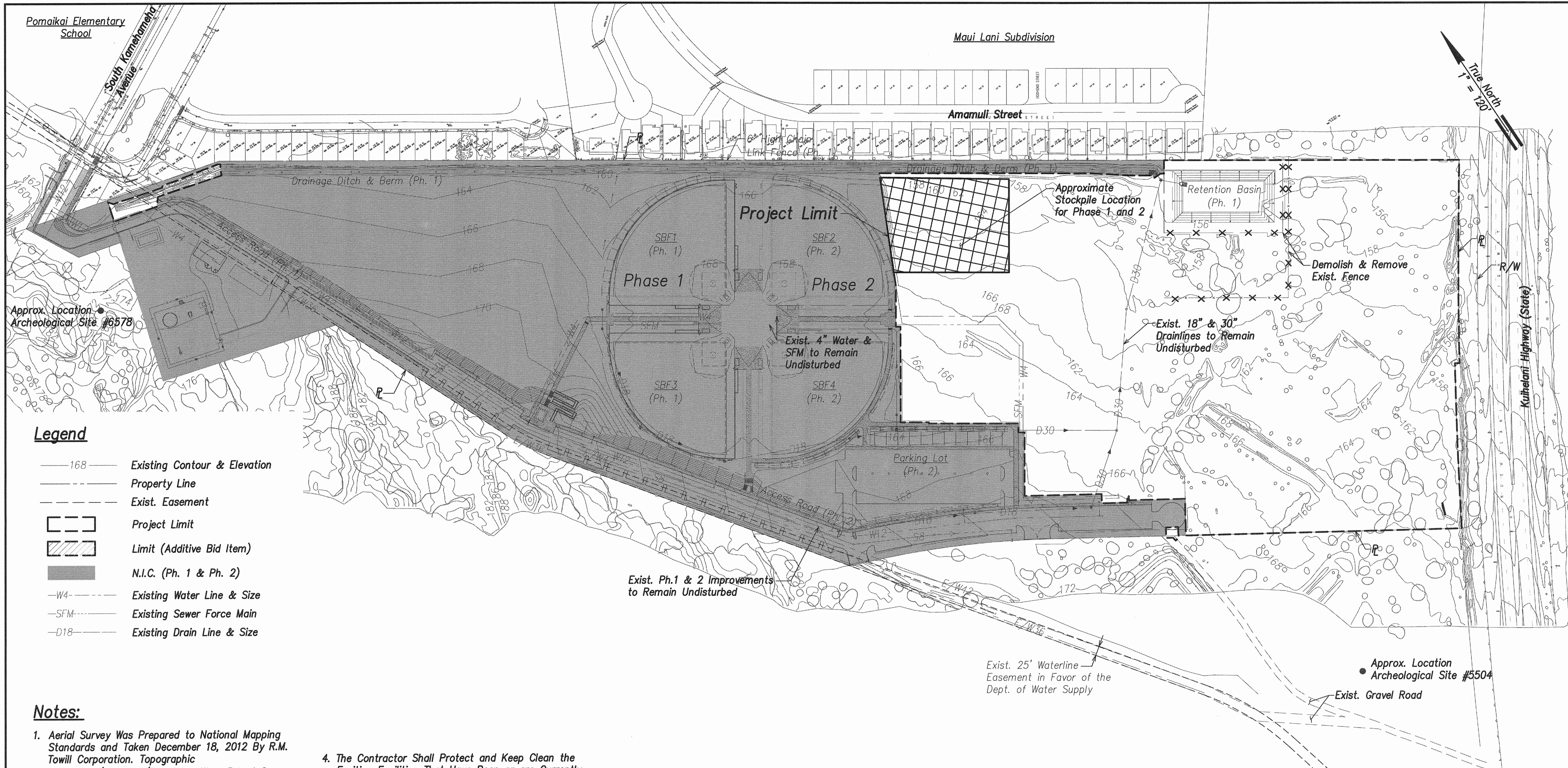
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION <b>CENTRAL MAUI REGIONAL SPORTS COMPLEX</b> <b>PHASE 3</b> WAILUKU, MAUI, HAWAII <b>GENERAL SITE PLAN</b>					
DESIGNED: GR/NN/JP		SUBMITTED: ---		DATE: DECEMBER 2015	
DRAWN: GR/NN/JP		CHECKED: GTR		SCALE: AS SHOWN	
APPROVED:		DATE: DEC 22 2015		DRAWING NO. <b>C-3</b>	
<b>R. M. TOWILL CORPORATION</b> <small>Planning • Engineering • Construction • Surveying • Geotechnical Engineering</small> 200 Wai'anae Blvd., Suite 200, Wai'anae, HI 96791					



Pomaikai Elementary School

Maui Lani Subdivision

True North  
1" = 120'



**Legend**

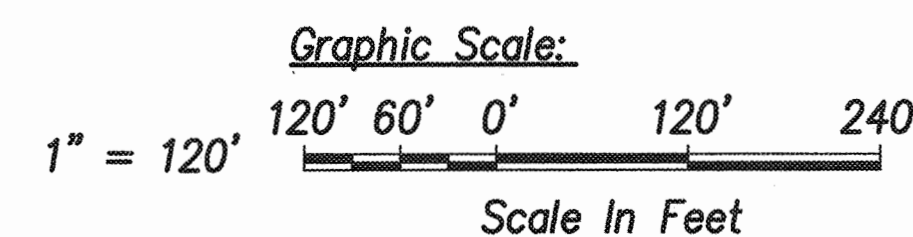
- 168— Existing Contour & Elevation
- - - - - Property Line
- - - - - Exist. Easement
- ▭ Project Limit
- ▨ Limit (Additive Bid Item)
- N.I.C. (Ph. 1 & Ph. 2)
- W4- Existing Water Line & Size
- SFM- Existing Sewer Force Main
- D18- Existing Drain Line & Size

**Notes:**

1. Aerial Survey Was Prepared to National Mapping Standards and Taken December 18, 2012 By R.M. Towill Corporation. Topographic Conditions/Features/Elevations Were Based On Photographs Taken at 3,000 Feet Above The Ground Surface and Limited Ground Survey.
2. The Contractor Shall Be Responsible For Verifying Existing Conditions Prior to the Start of Clearing & Grubbing. Starting Clearing & Grubbing Indicates Acceptance of All Grades.
3. The Contractor Shall Be Responsible For Clearing, Grubbing, and Disposal Of All Weeds, Brush, Roots, Trees, Debris, and Any Other Deleterious Material Within The Project Site. Material Shall Be Dumped at a State of Hawaii Approved Dump Site.
4. The Contractor Shall Protect and Keep Clean the Existing Facilities That Have Been or are Currently Being Constructed In Phase 1 and Phase 2. These Facilities are As Follows But Not Limited to Restroom #1, Concession Stand #1, Softball Fields #1, #2, #3, #4 and Field Appurtenances, Conc. Walkways, Park Lighting Structures, Paved Roadway, Concrete Curb and Gutters, All Mechanical Equipment Including Booster Pump, Irrigation Tank, and Irrigation Well Facility Including Pump and Appurtenances.

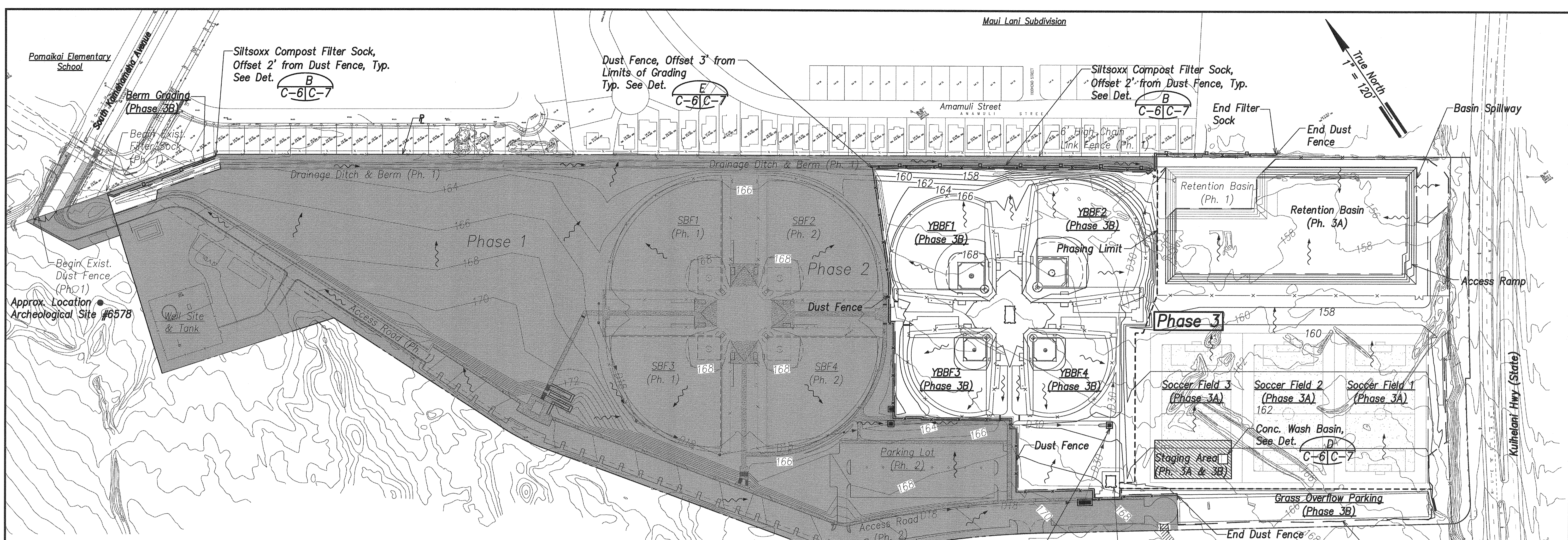
**Existing Conditions and Demolition Plan**

Scale: 1" = 120'



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION <b>CENTRAL MAUI REGIONAL SPORTS COMPLEX            PHASE 3            WAILUKU, MAUI, HAWAII</b>					
<b>EXISTING CONDITIONS AND DEMOLITION PLAN</b>					
DESIGNED: GR/NN/JP		SUBMITTED: ---		DATE: DECEMBER 2015	
DRAWN: GR/NN/JP		CHECKED: GTR		SCALE: AS SHOWN	
APPROVED: <i>[Signature]</i> R. M. TOWILL CORPORATION CHIEF ENGINEER			DATE: DEC 2 2 2015		DRAWING NO. <b>C-4</b>





**Erosion Control Notes and Best Management Practices (BMP)**

1. A Total Of 27.4 Acres Will Be Graded Under This Plan. The Contractor Shall Limit Exposed Areas To a Maximum Of 15 Acres. The Next Phase of Grading Shall Not Commence Until The Previous Phase Has Been Stabilized.
2. Siltsoxx, Dust Fence, and Inlet Protection Devices Shall Be In Place Before Any Earth Moving Work Is Initiated. These Measures Shall Be Properly Constructed And Maintained Throughout The Construction Period.
3. All Erosion Control Measures Shall Be Checked Daily And Repaired Immediately.
4. Construct Facilities to Retain On-site Wastewater Such As Chlorinated Water, Hydrostatic Testing Water, Wash Water After Cleaning Concrete Trucks, Etc.
5. Maintain Sediment Traps At Discharge Points During Site Work And Until Permanent Erosion Controls Are Established And In Place.
6. Provide Gravel Entrance For Ingress And Egress (Stabilized Construction Entrance).
7. Pre-construction Vegetative Ground Cover Shall Not Be Destroyed, Removed Or Disturbed More Than Twenty (20) Calendar Days Prior To Site Disturbance.
8. Temporary Soil Stabilization Using Hydromulch With Grass Seed Or Appropriate Vegetation Shall Be Applied On Areas That Will Remain Unfinished. Areas Not Disturbed For 21 Days Must Be Stabilized Within 14 Days.
9. Permanent Soil Stabilization With Perennial Vegetation Shall Be Applied As Soon As Practical After Final Grading In Accordance With The Landscaping Plans.
10. Storm Water Flowing Toward The Construction Area Shall Be Diverted By Using Berms Or Swales Toward The Sediment Basin.
11. Temporary Irrigation And Maintenance Shall Be Provided For A 90 Day Period To Establish Vegetation.

**Legend**

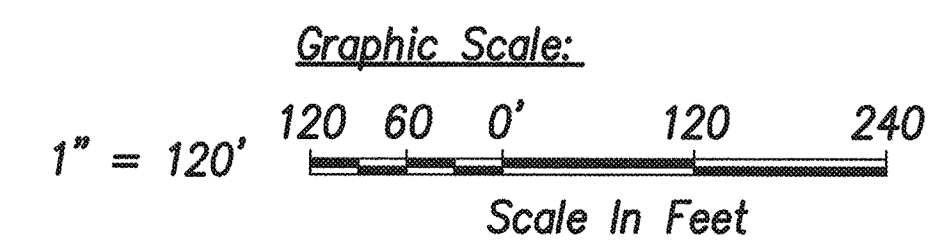
- Property Line
- Exist. Easement
- [ - - - ] Limit of Grading/ Disturbed Area
- - - - - Phasing Limit
- N.I.C. (Ph. 1 & Ph. 2)
- D18- Existing Drain Line & Size
- 168--- Exist. Minor Contour
- 170--- Exist. Major Contour
- 168--- Finish Minor Contour
- 170--- Finish Major Contour
- Stabilized Entrance
- Catch Basin Inlet Protection Device
- Drain Inlet Protection Device
- Compost Filter Sock
- × Dust Fence

**Erosion Control Plan**

Scale: 1" = 120'

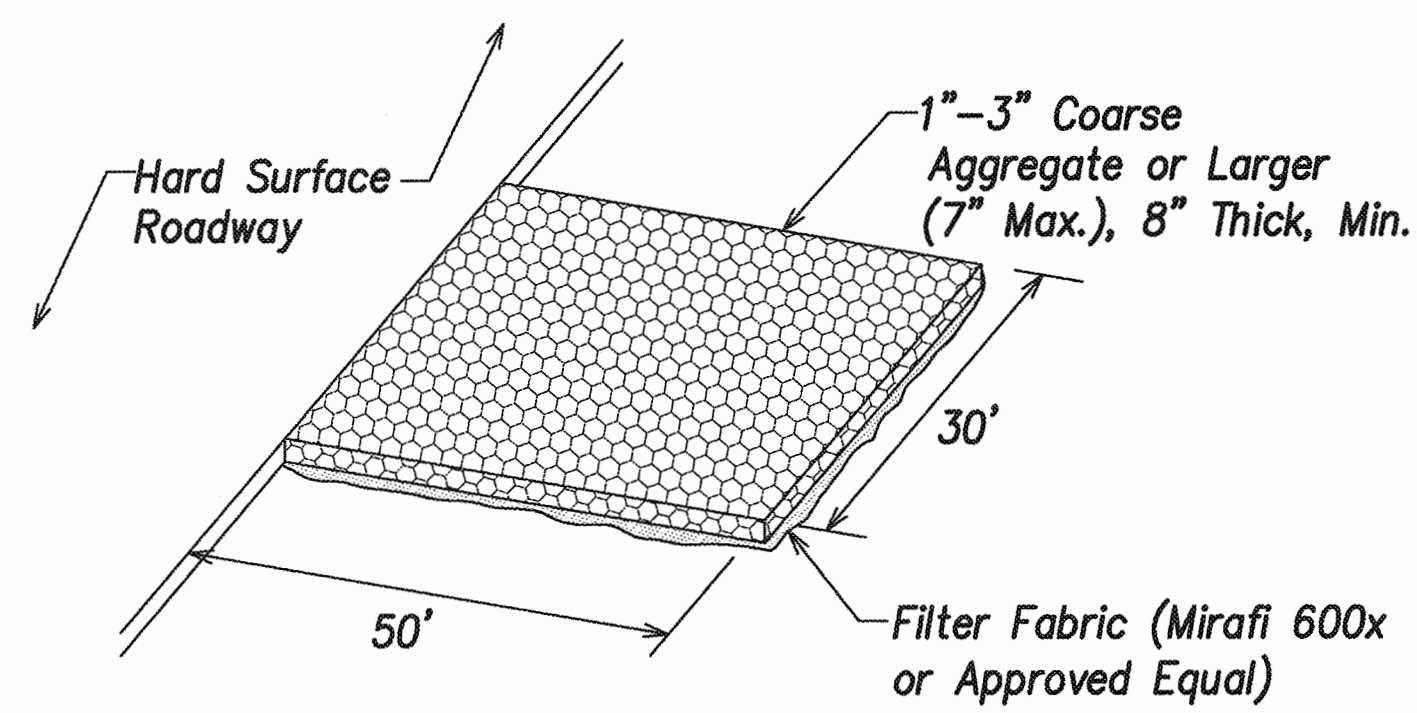
**Grading Summary**

Area to be Graded/Disturbed	Area (ac.)
Phase 3A (Incl. Retention Basin and Soccer Fields 1-3)	14.7
Phase 3B (Incl. YBBF1, YBBF2, YBBF3, YBBF 4, Overflow Parking Lot, Berm)	12.7
<b>Total</b>	<b>27.4</b>



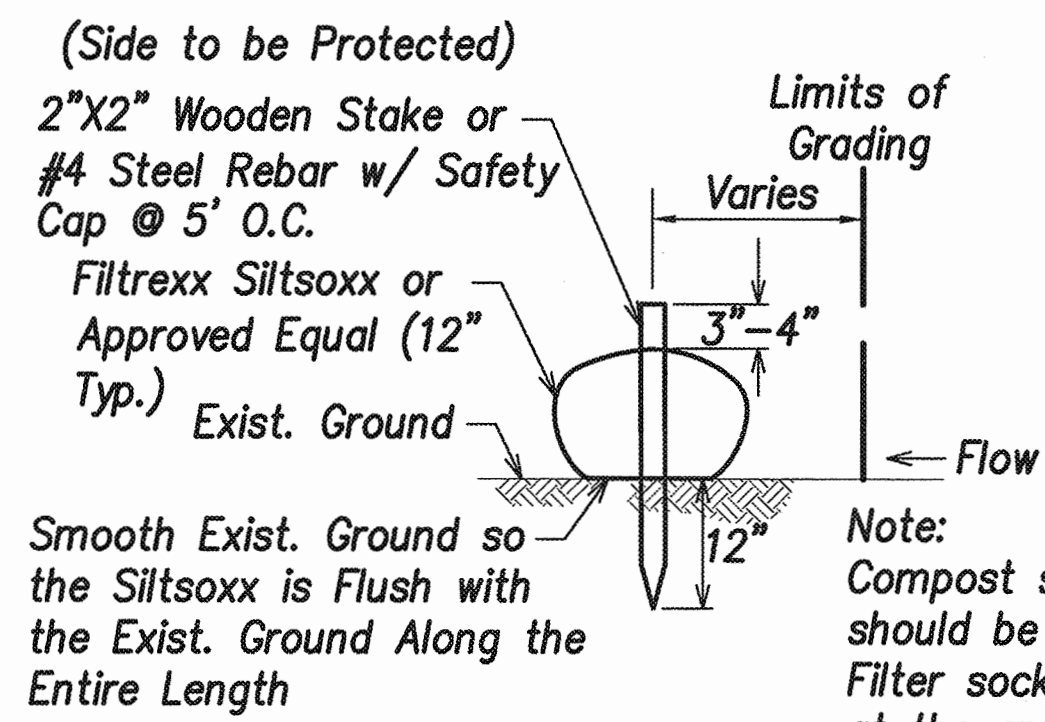
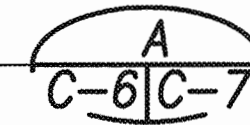
REVISION NO.	SYMBOL	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION <b>CENTRAL MAUI REGIONAL SPORTS COMPLEX</b> PHASE 3 WAILUKU, MAUI, HAWAII <b>EROSION CONTROL PLAN</b>					
		DESIGNED: GR/NN/JP DRAWN: GR/NN/JP CHECKED: GTR APPROVED:			
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.		4/30/16 EXP. DATE		SUBMITTED: <input checked="" type="checkbox"/> DATE: DECEMBER 2015 SCALE: AS SHOWN DRAWING NO. <b>C-6</b>	
R. M. TOWILL CORPORATION <small>Planning • Quantity • Structural Services • Programming • Specialty • Geotechnical Services</small>			DEC 2 2 2015 DATE		





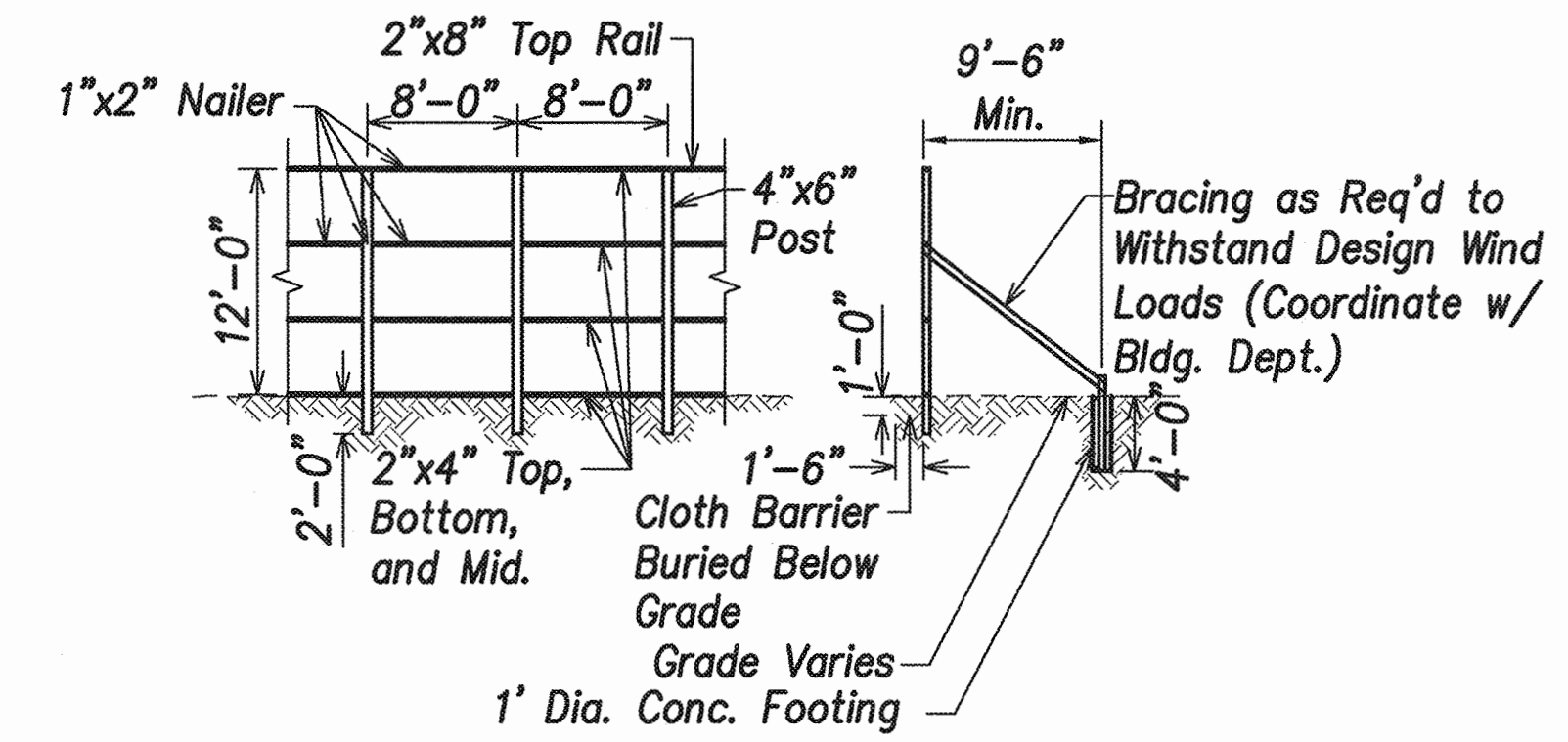
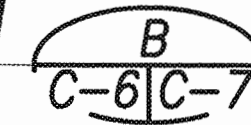
**Stabilized Construction Entrance**

Not to Scale



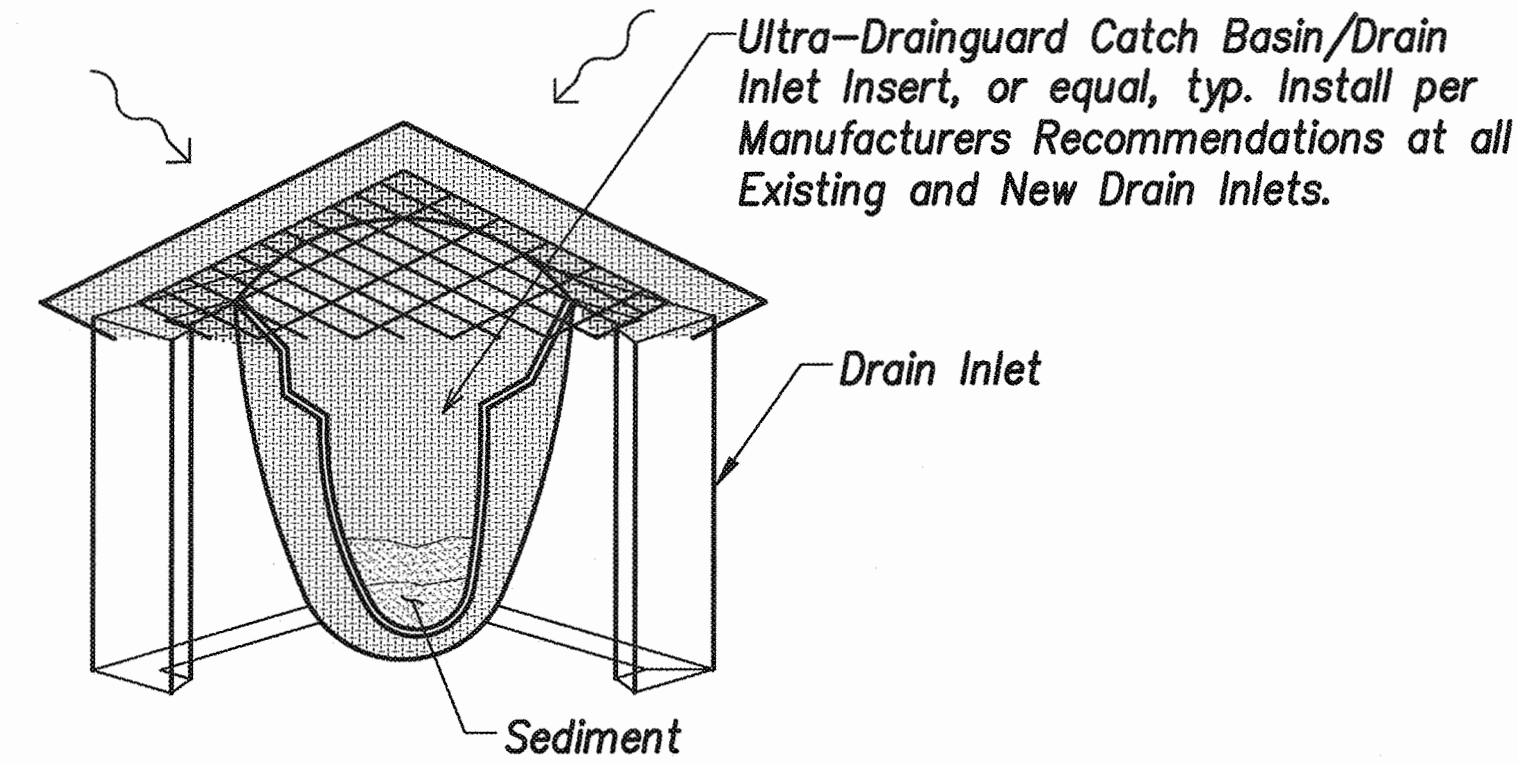
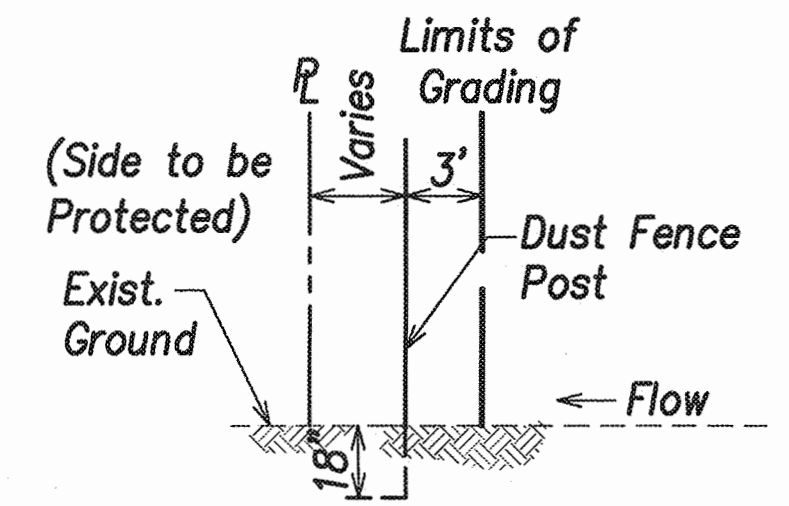
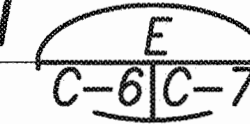
**Siltsoxx Compost Filter Sock Detail**

Not to Scale



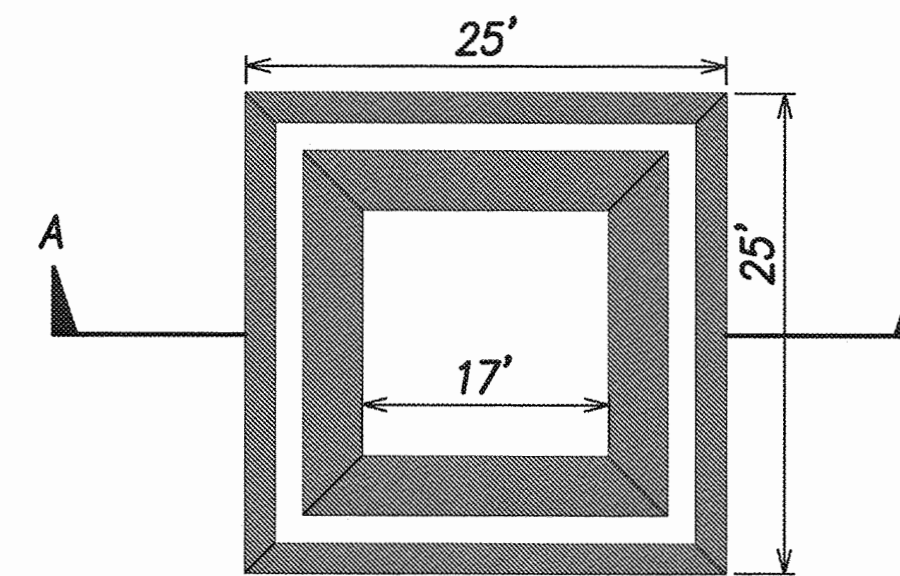
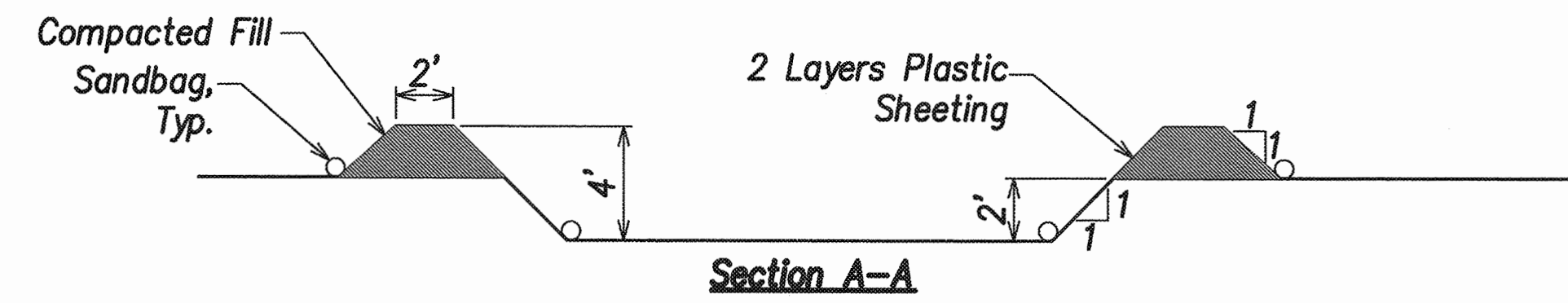
**Dust Fence Detail**

Not to Scale



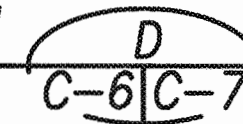
**Grate Inlet Protection**

Not to Scale



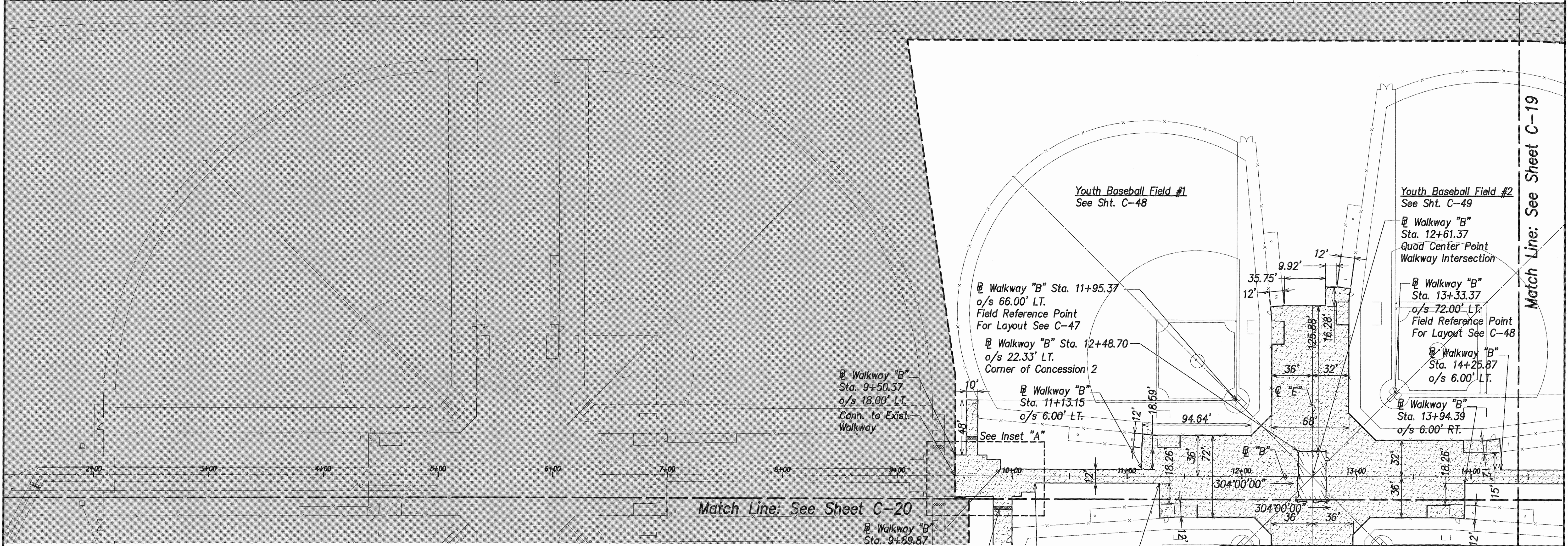
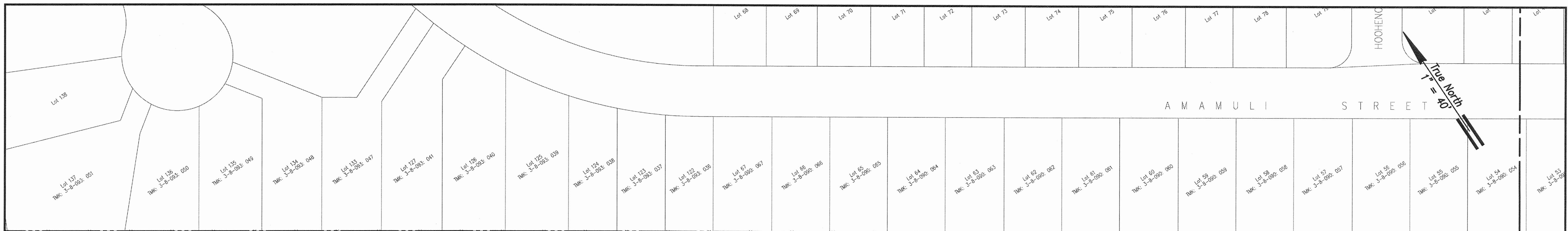
**Concrete Wash Basin Detail**

Not to Scale



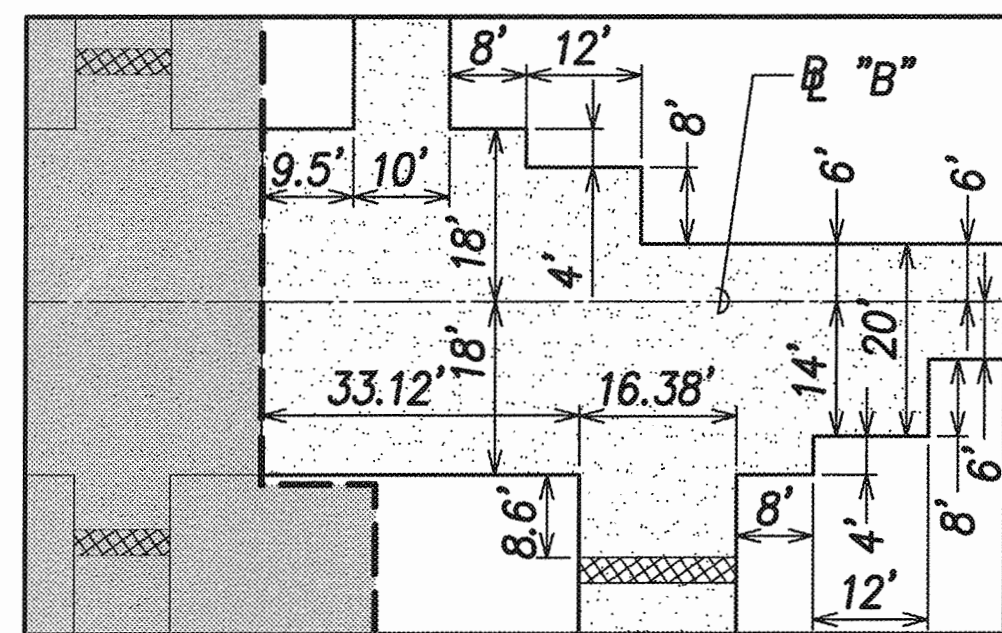
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION <b>CENTRAL MAUI REGIONAL SPORTS COMPLEX            PHASE 3            WAILUKU, MAUI, HAWAII</b> <b>EROSION CONTROL DETAILS</b>					
		THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.			
SIGNATURE:		EXP. DATE: 4/30/16		SUBMITTED: --	
DESIGNED: GR/NN/JP		DRAWN: GR/NN/JP		DATE: XX 2015	
CHECKED: GTR		SCALE: AS SHOWN		DRAWING NO.	
APPROVED:		R. M. TOWILL CORPORATION <small>Real Estate - Surveying - Engineering - Planning - Land Use - Construction Management</small> 6025 Kalia Place, Suite 200, Honolulu, Hawaii 96816-3600		DEC 22 2015 DATE	
CHIEF ENGINEER		C-7		DRAWING NO.	





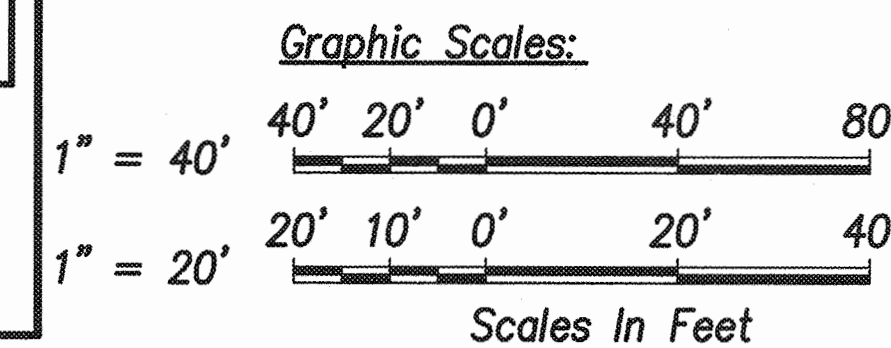
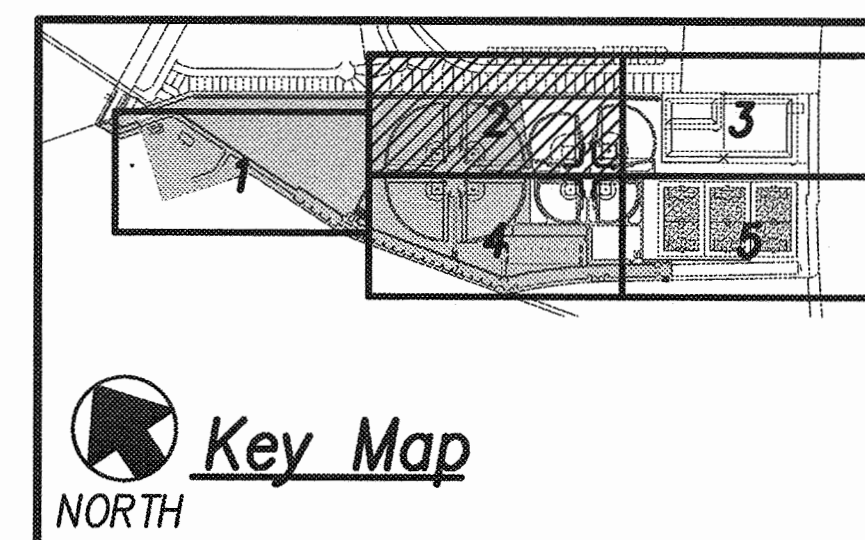
**Legend**

- Property Line
- Exist. Easement
- Project Limit
- N.I.C. (Ph. 1 & Ph. 2)
- Concrete Walkway



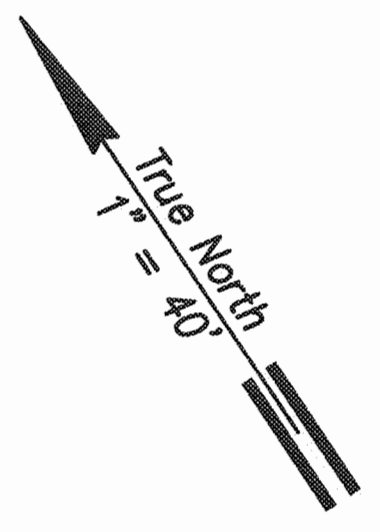
**Inset "A"**  
Scale: 1" = 20'

**Site Plan - 2**  
Scale: 1" = 40'

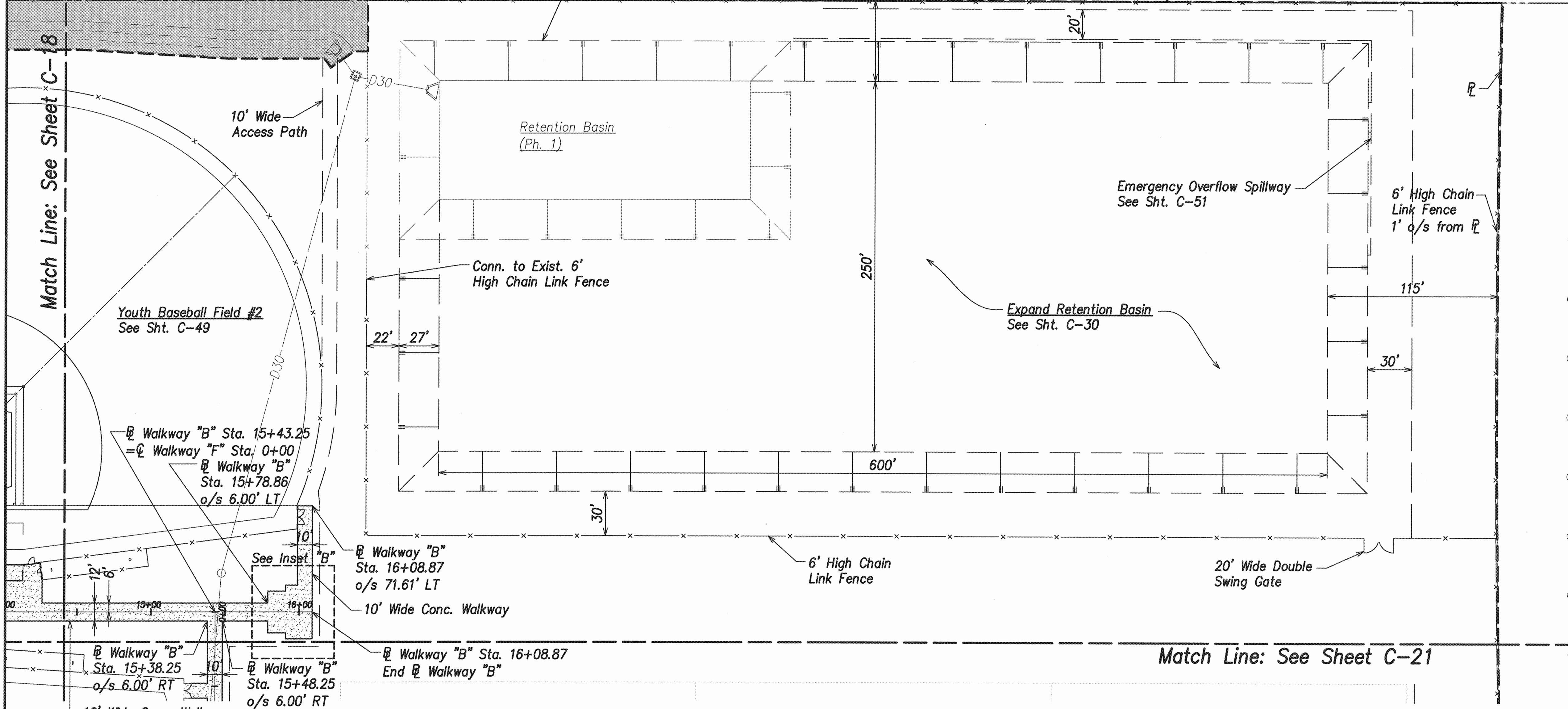
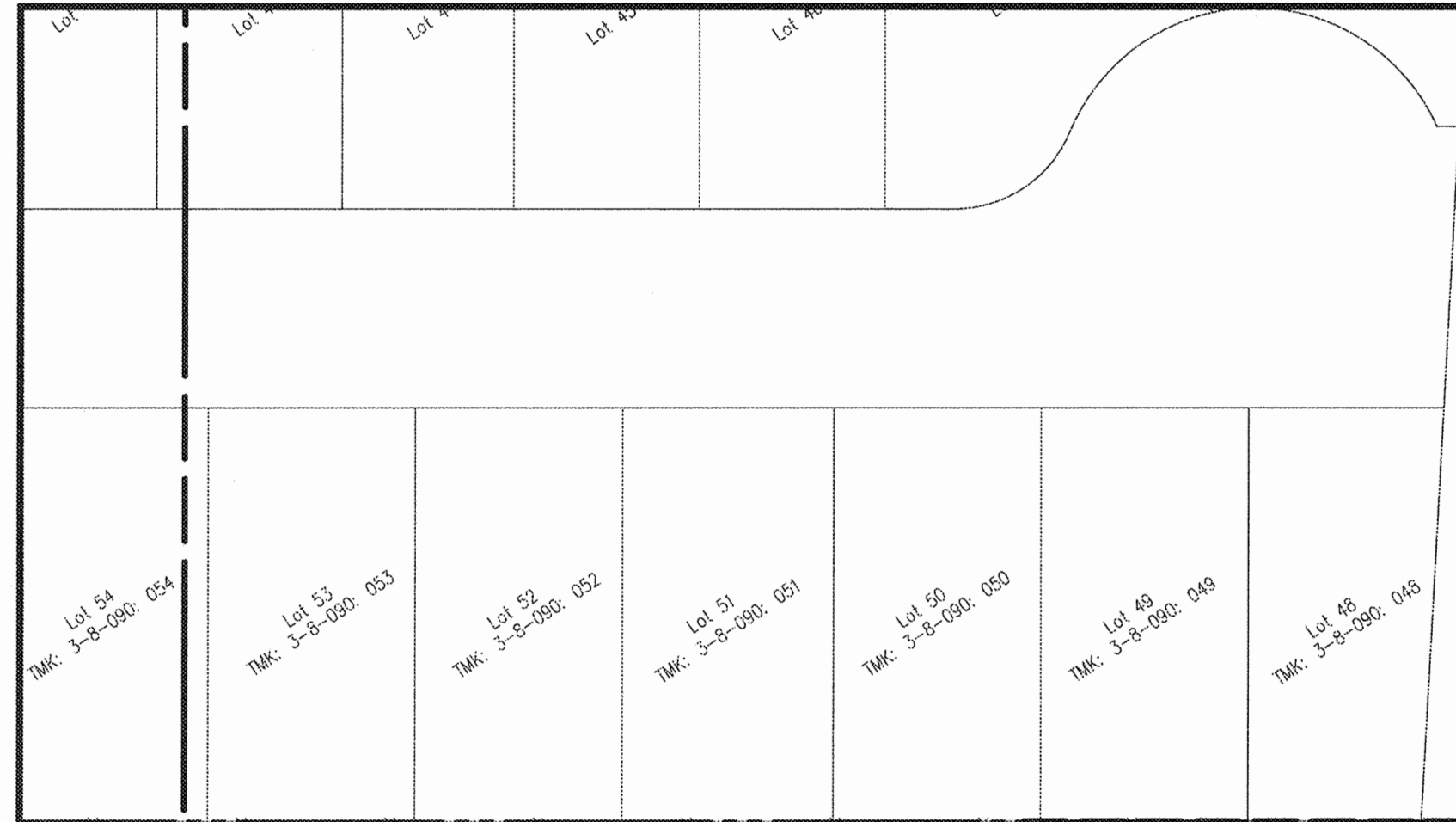


REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION <b>CENTRAL MAUI REGIONAL SPORTS COMPLEX</b> PHASE 3 WAILUKU, MAUI, HAWAII <b>SITE PLAN - 2</b>					
DESIGNED:	GR/NN/JP	SUBMITTED:			
DRAWN:	GR/NN/JP	DATE:	DECEMBER 2015		
CHECKED:	GTR	SCALE:	AS SHOWN		
APPROVED:			DATE:	DEC 2 2 2015	
R. M. TOWILL CORPORATION CHIEF ENGINEER		DEC 2 2 2015 DATE		<b>C-18</b>	





Approx. Location of Exist. Retention Basin.  
Contractor Is Responsible For Verifying Actual  
Conditions & Accounting For Any Potential  
Discrepancies in Their Bid. No Additional  
Change Orders Will Be Issued Due to Retention  
Basin Location and Deviations.

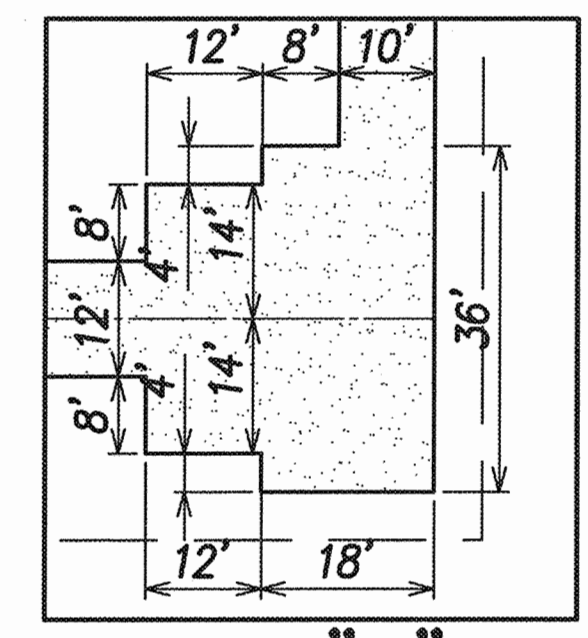


Match Line: See Sheet C-18

Match Line: See Sheet C-21

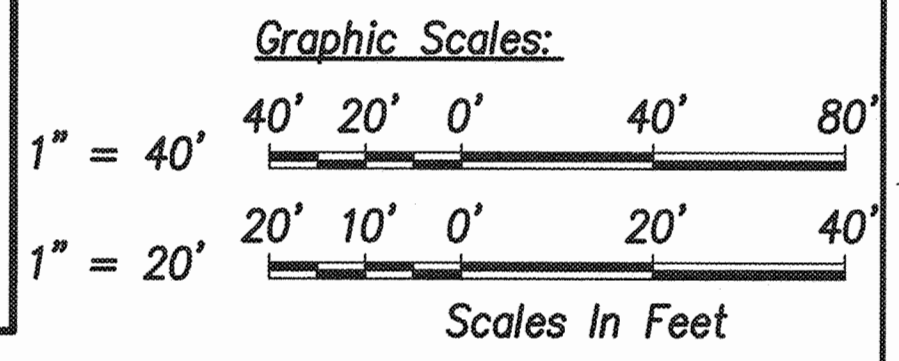
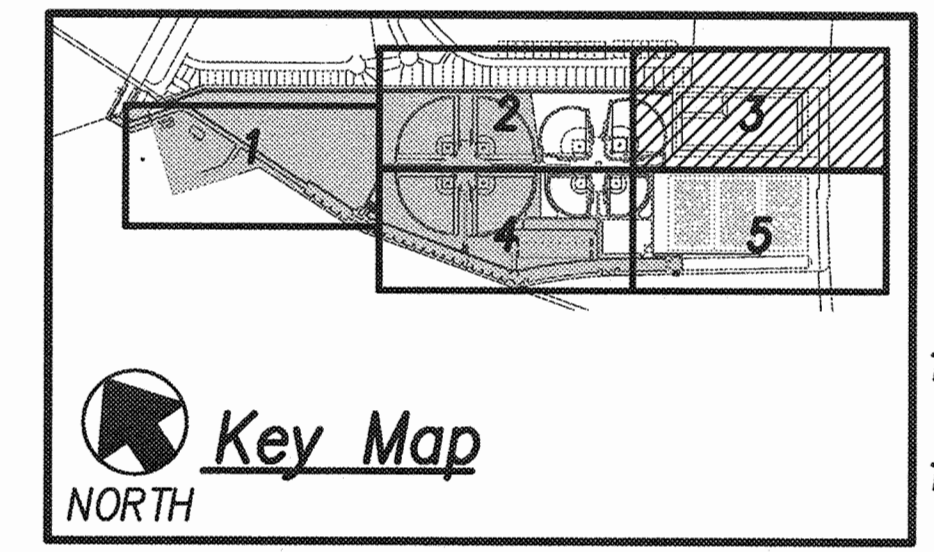
H I C H W A Y

- Legend**
- Property Line
  - Exist. Easement
  - Project Limit
  - N.I.C. (Ph. 1 & Ph. 2)
  - Concrete Walkway



**Inset "B"**  
Scale: 1" = 20'

**Site Plan - 3**  
Scale: 1" = 40'



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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

*Gordon T. Ring*  
4/30/16  
EXP. DATE

STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
ENGINEERING DIVISION

**CENTRAL MAUI REGIONAL SPORTS COMPLEX  
PHASE 3  
WAILUKU, MAUI, HAWAII**

**SITE PLAN - 3**

DESIGNED: GR/NN/JP    SUBMITTED: --

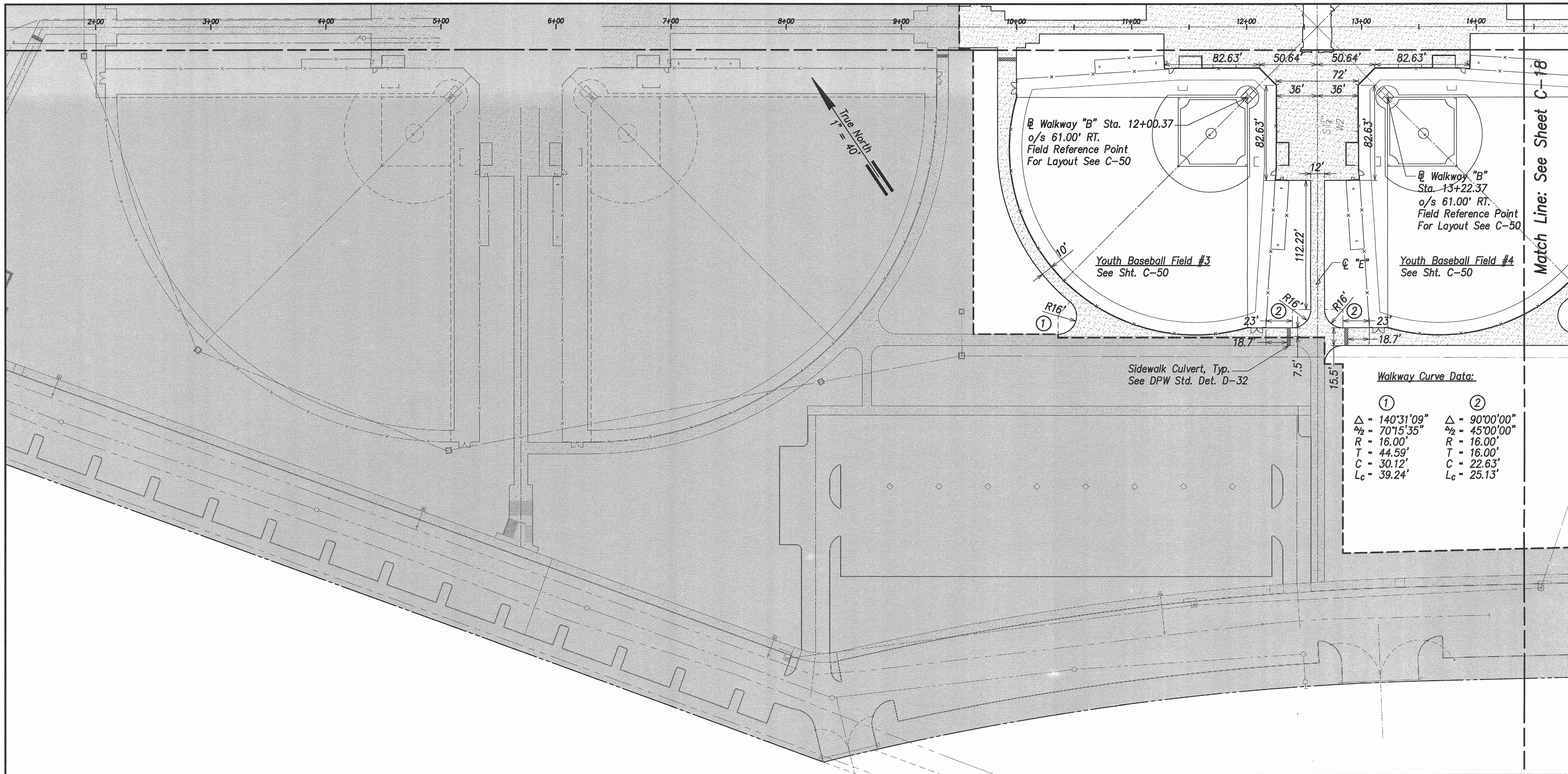
DRAWN: GR/NN/JP    DATE: DECEMBER 2015

CHECKED: GTR    SCALE: AS SHOWN

APPROVED: *[Signature]*  
R. M. TOWILL CORPORATION  
CHIEF ENGINEER

DRAWING NO. **C-19**





**Walkway Curve Data:**

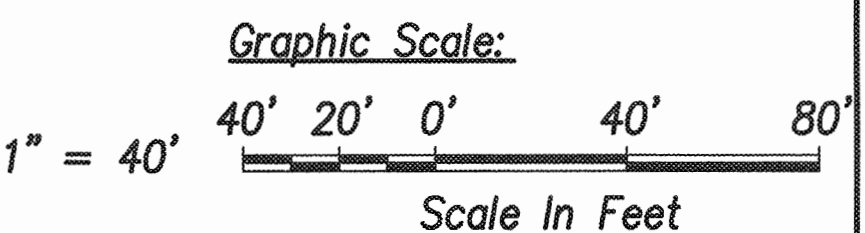
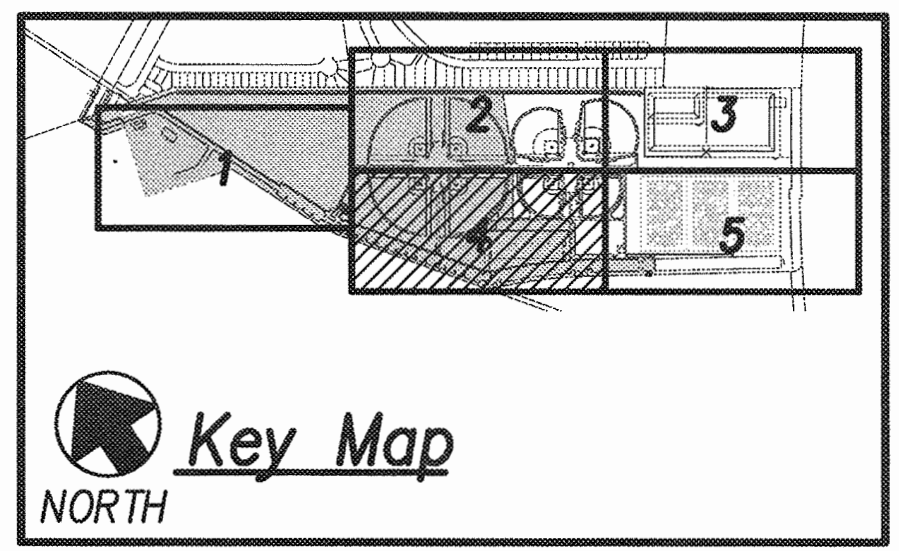
①	②
Δ - 140°31'09"	Δ - 90°00'00"
Δ/2 - 70°15'35"	Δ/2 - 45°00'00"
R - 16.00'	R - 16.00'
T - 44.59'	T - 16.00'
C - 30.12'	C - 22.63'
Lc - 39.24'	Lc - 25.13'

**Legend**

- Property Line
- - - - - Exist. Easement
- □ □ Project Limit
- N.I.C. (Ph. 1 & Ph. 2)
- ▨ Concrete Walkway

**Site Plan - 4**

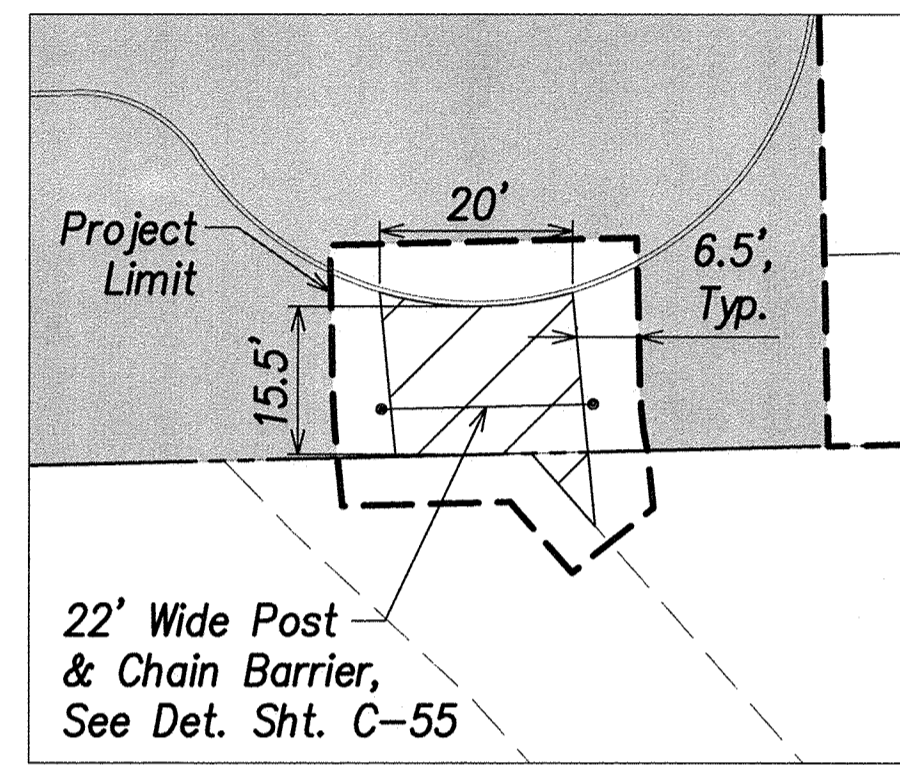
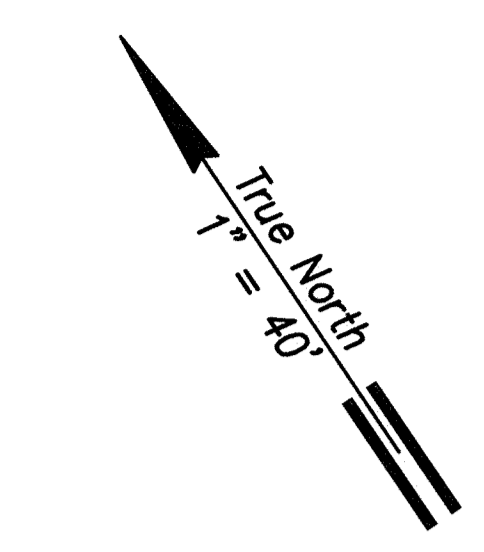
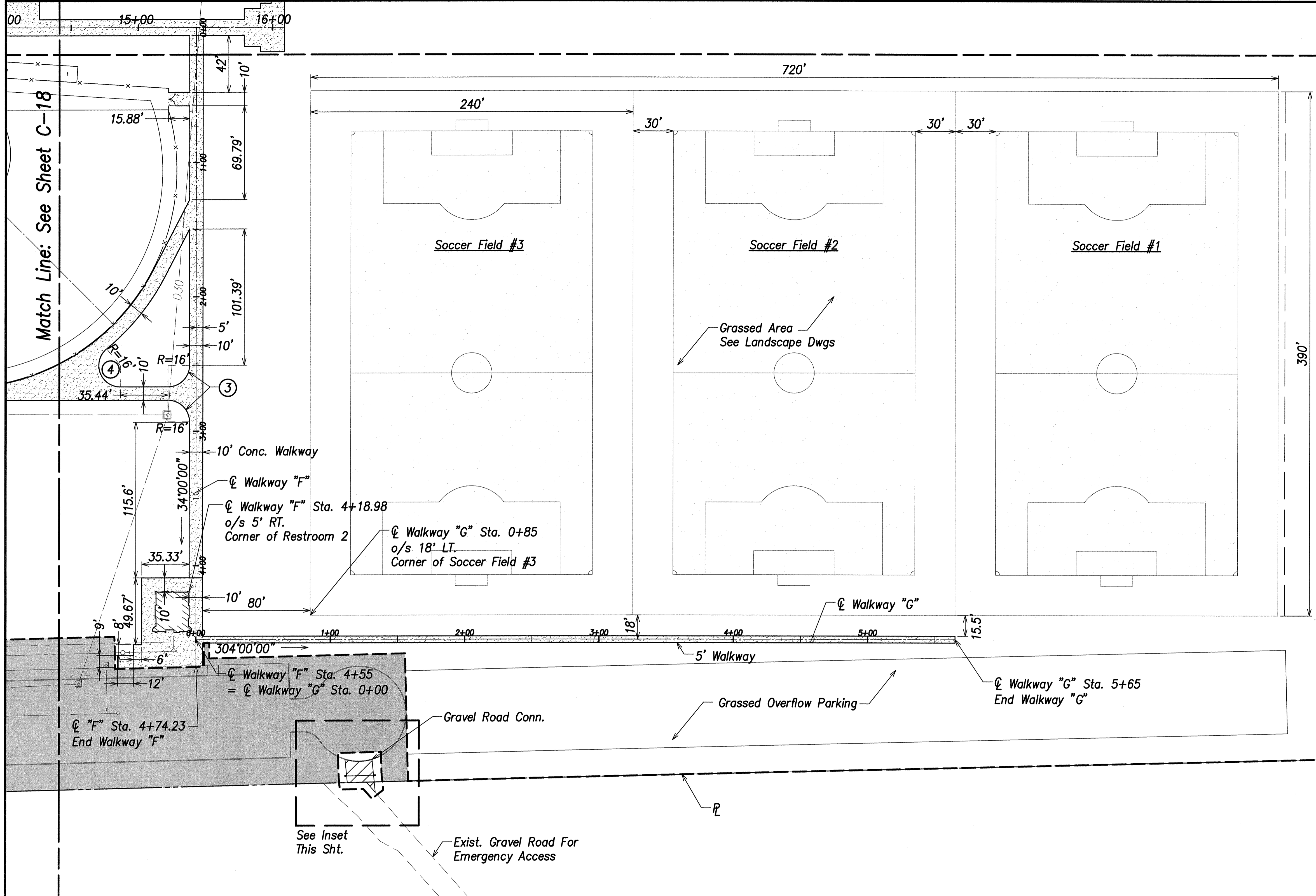
Scale: 1" = 40'



REVISION NO.	SYMBOL	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION <b>CENTRAL MAUI REGIONAL SPORTS COMPLEX</b> <b>PHASE 3</b> WAILUKU, MAUI, HAWAII <b>SITE PLAN 4</b>					
		THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.			
DESIGNED: GR/NN/JIP DRAWN: GR/NN/JIP CHECKED: GTR		SUBMITTED: --- DATE: DECEMBER 2015 SCALE: AS SHOWN		APPROVED: R. M. TOWILL CORPORATION CHIEF ENGINEER	
JOB NO. F93C817D				SHEET NO. 11 OF 90 SHEETS	

DRAWING NO. **C-20**





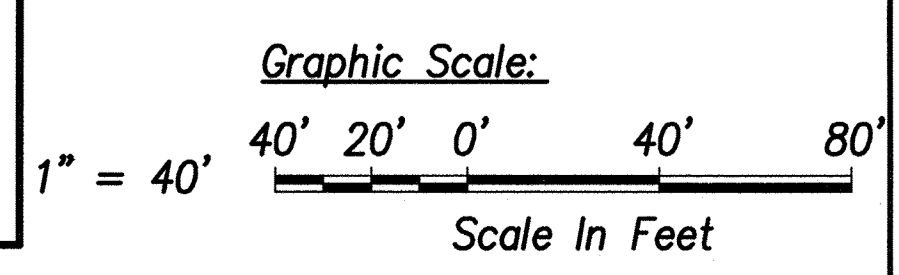
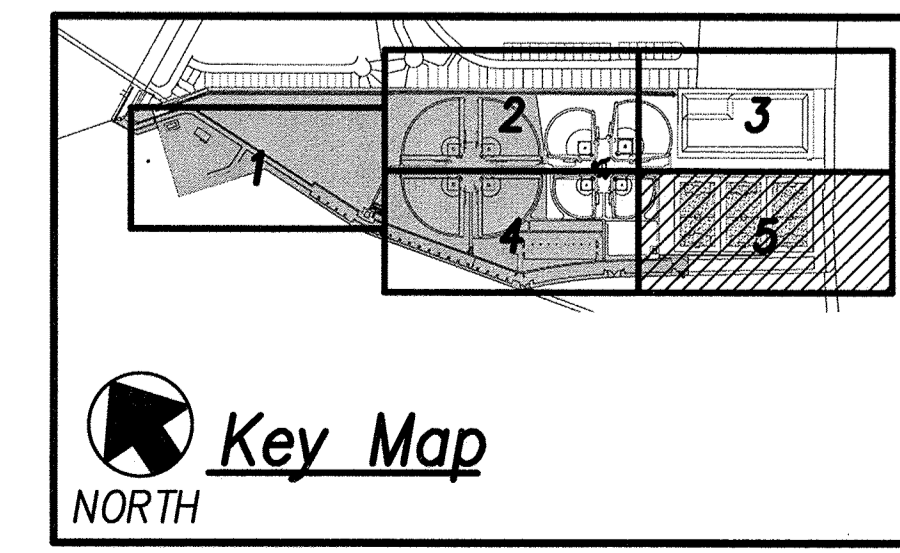
**Inset**  
Scale: 1" = 20'

**Walkway Curve Data:**

Station	Δ	Δ/2	R	T	C	Lc
③	90°00'00"	45°00'00"	16.00'	16.00'	22.63'	25.13'
④	140°34'04"	70°15'32"	16.00'	44.59'	30.12'	39.24'

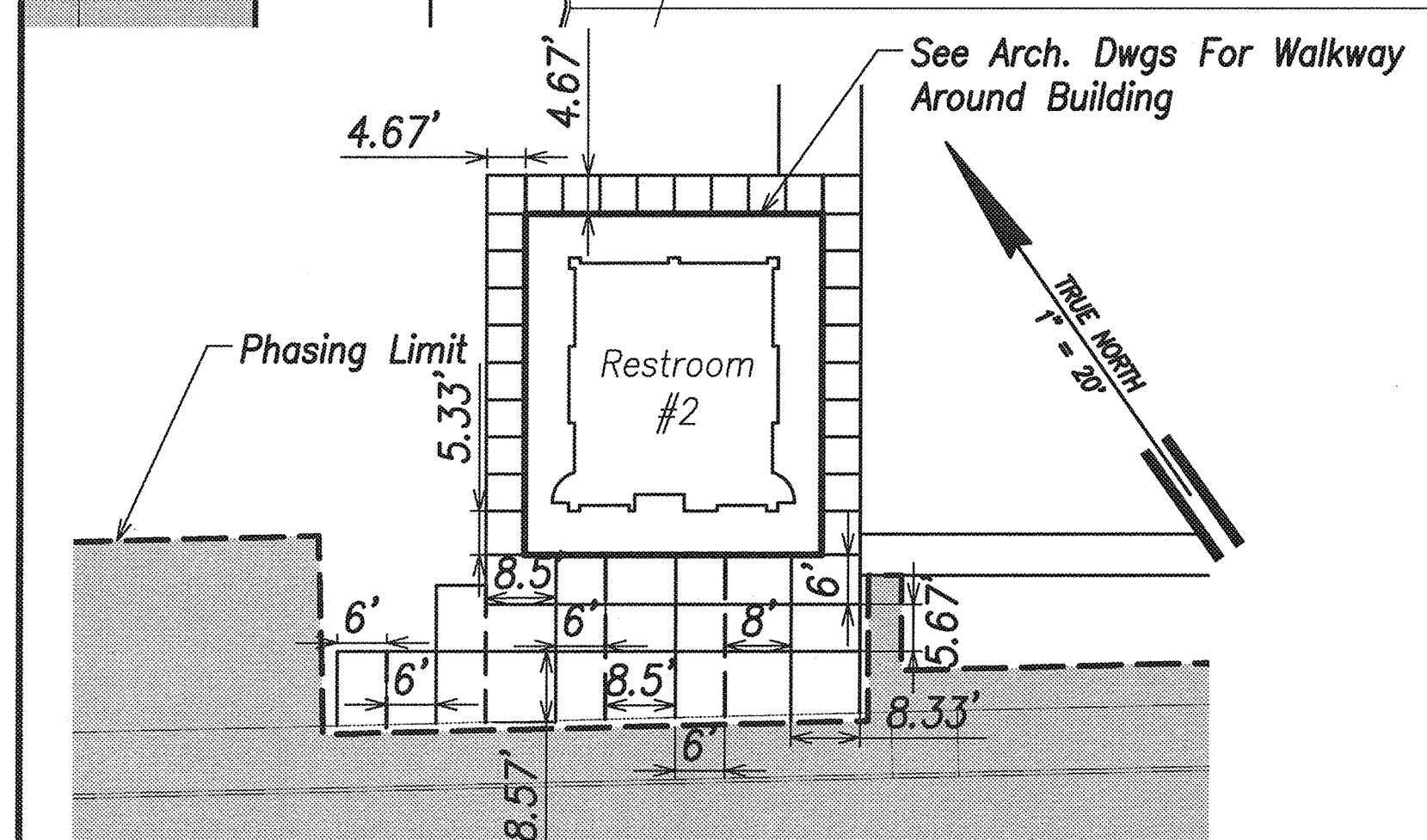
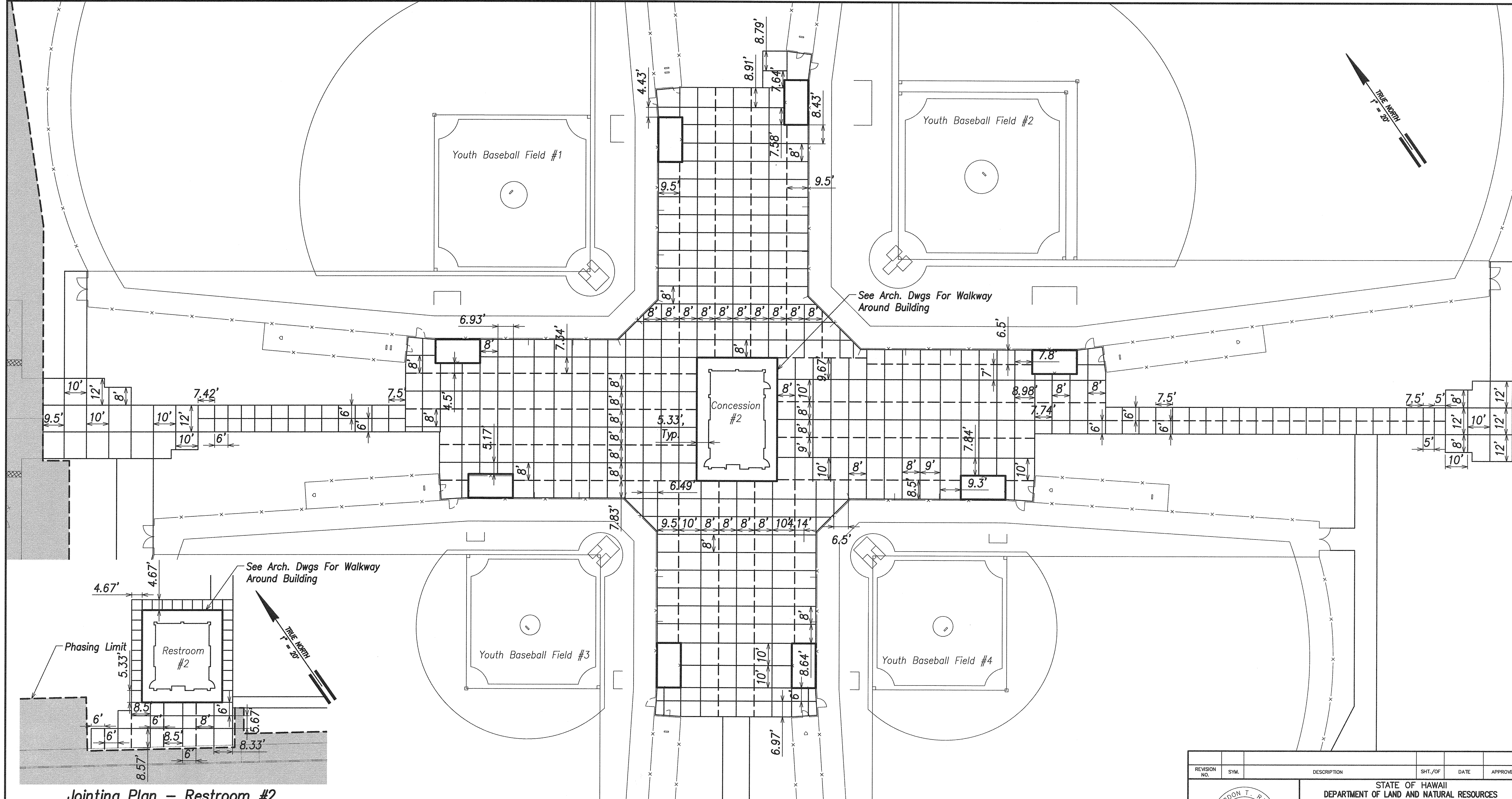
- Legend**
- Property Line
  - - - Exist. Easement
  - Project Limit
  - N.I.C. (Ph. 1 & Ph. 2)
  - ▨ Concrete Walkway

**Site Plan - 5**  
Scale: 1" = 40'



REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION <b>CENTRAL MAUI REGIONAL SPORTS COMPLEX</b> <b>PHASE 3</b> WAILUKU, MAUI, HAWAII <b>SITE PLAN - 5</b>					
		THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.			
DESIGNED: GR/NN/JP DRAWN: GR/NN/JP CHECKED: GTR		SUBMITTED: -- DATE: DECEMBER 2015 SCALE: AS SHOWN		APPROVED: <b>R. M. TOWILL CORPORATION</b> CHIEF ENGINEER	
DRAWING NO. <b>C-21</b>				DATE: DEC 2 2 2015	



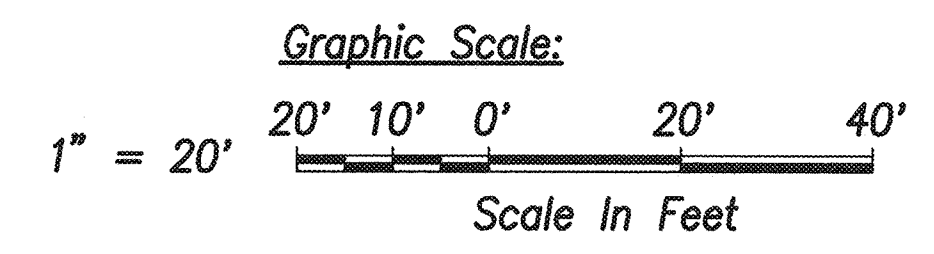


**Jointing Plan - Restroom #2**  
SCALE: 1" = 20'

**Jointing Plan - Concession #2**  
SCALE: 1" = 20'

- Legend**
- Contraction Joint
  - - - Construction Joint
  - Expansion Joint

- Notes:**
- See DOT Std. Plan D-15 For Joint Details



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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

*Gordon T. Ring*  
4/30/16  
EXP. DATE

STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
ENGINEERING DIVISION

**CENTRAL MAUI REGIONAL SPORTS COMPLEX  
PHASE 3  
WAILUKU, MAUI, HAWAII**

**JOINTING PLAN**

DESIGNED: GR/NN/JJP	SUBMITTED: ---
DRAWN: GR/NN/JJP	DATE: DECEMBER 2015
CHECKED: GTR	SCALE: AS SHOWN

APPROVED: *Cyly*  
CHIEF ENGINEER

DRAWING NO. **C-21A**