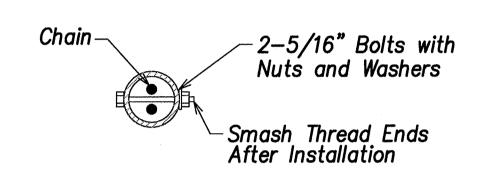
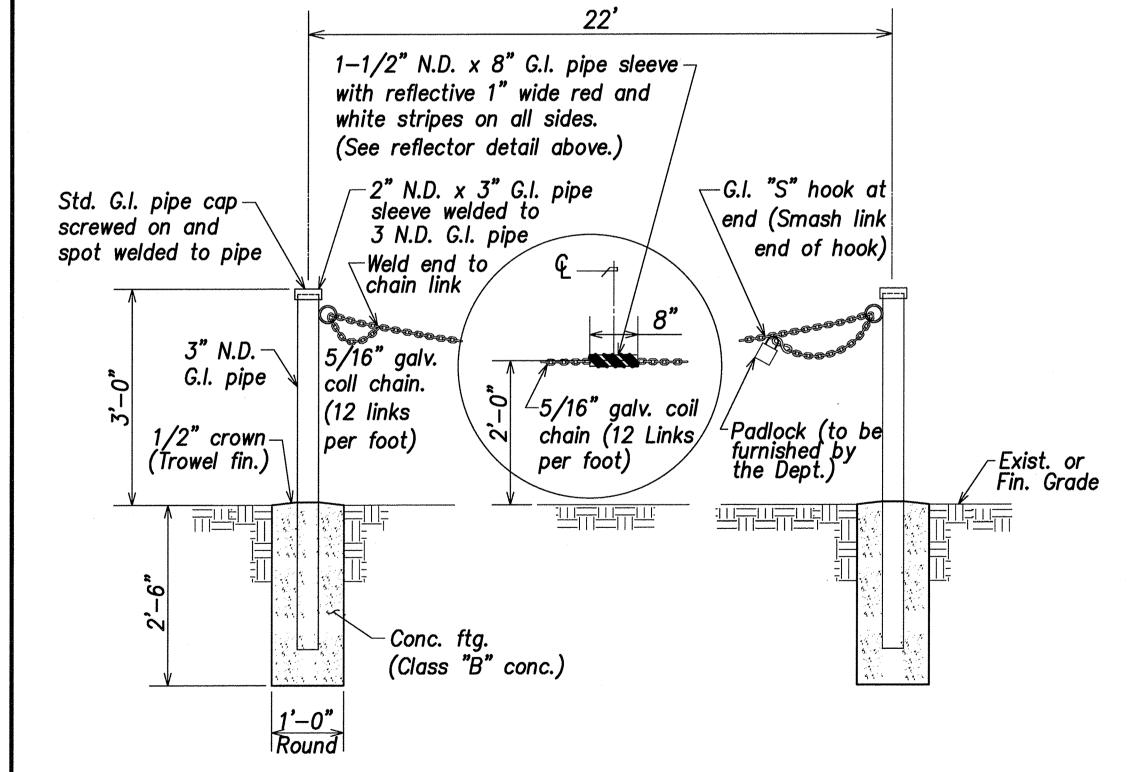


Concrete Sidewalk Not to Scale



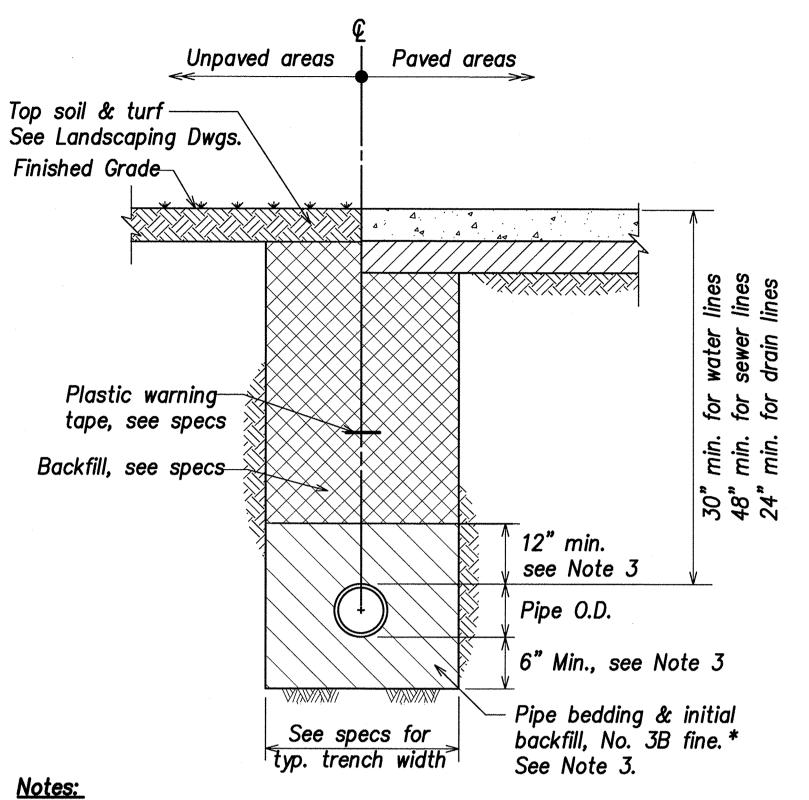
### REFLECTOR DETAIL



### **NOTES:**

- 1. All welded connections shall be painted with two coats of Z.R.C. cold galvanizing compound.
- 2. "S" hooks shall be 5/16"ø with tip tapered to 3/16".
- 3. No splicing shall be allowed on G.I. pipe posts.
- 4. All pipe sizes are nominal diameter (N.D.).

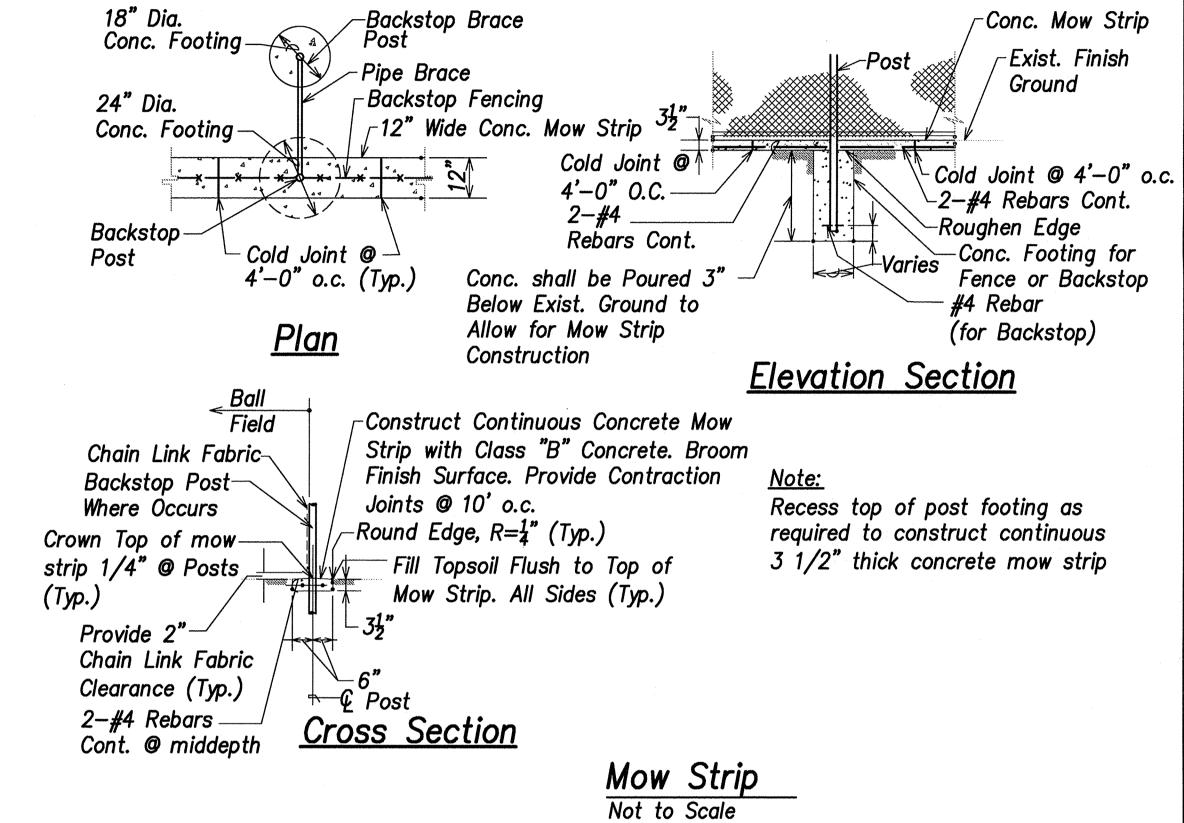
## Access Chain Barrier Detail Not to Scale

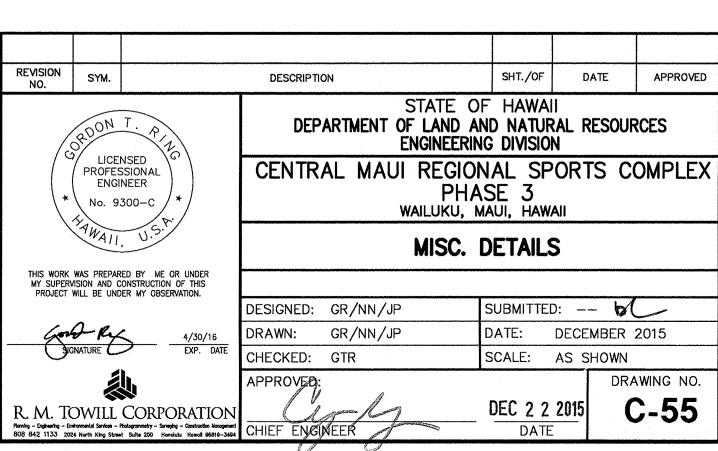


1. Provide minimum clearance between water crossing over sewer lines of 12". 2. For pipes larger than 24" in diameter provide 12" of bedding below pipe.

3. For waterline installation, see DWS Std. Det. P10 for pipe bedding & initial backfill requirements.

> Trench Restoration Detail Not to Scale





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stringent shall apply. B. The contractor shall compare all the contract documents with each other and report in writing to the Engineer all inconsistencies and omissions.

C. The contractor shall take field measurements and verify field conditions and shall compare such field measurements and conditions with the drawings before commencing work. Report in writing to the Engineer all inconsistencies and omissions.

D. The contractor shall be responsible for coordinating the work of all trades.

E. The contractor shall be responsible for means and methods of construction, workmanship and job safety.

F. The contractor shall provide temporary shoring and bracing as required for stability of structural members and systems.

G. Construction loading shall not exceed design live load unless special shoring is provided. Permitted construction loads shall be properly reduced in areas where the structure has not attained full design strength.

H. The contractor shall be responsible for protection of the adjacent properties, structures, streets and utilities during the construction period. Any damaged or deteriorated property shall be restored to the condition prior to the beginning of work or better at no cost to the owner.

Details noted as typical on the structural drawings shall apply in all conditions unless specifically shown or noted.

### <u>Design Criteria:</u>

A.	Design Live Loads	
	1. Drain manhole and catch basin top slab	HS-20
	2. Roof live load	20 psf
В.	Wind Loads	
	1. Basic wind speed (3 second gust)	105 mph
	2. Exposure category	-C
С.	Soil Properties	
	1. Bearing pressure	
	a. Allowable bearing:	2,500 psf
	b. Strength limit state:	
	c. Extreme limit state:	7,500 psf
	2. Coefficient of friction:	0.40
D.	Lateral Earth Pressure	
	1. Active pressure (level backfill):	40 pcf
	2. At-rest pressure (level backfill):	-60 pcf
	3. Passive pressure:	-300 pcf

## Foundation:

A. Foundation design is based on geotechnical investigation by Geolabs, Inc and W.O. 6802-00, dated Oct 1, 2013.

B. Contractor shall provide de-watering of excavated areas, as required.

C. Contractor shall provide design and installation of all cribbing, sheeting, and shoring necessary to preserve excavations and earth banks. Shoring shall conform to OSHA regulations.

D. Footings shall bear on undisturbed in-situ firm soils bottom of footings shall be compacted to provide a relatively firm and smooth bearing surface prior to placement of reinforcing steel and concrete. If soft and/or loose materials are encountered at the bottom of footing excavations, they shall be over-excavated to expose the underlying firm materials. The over-excavated area shall be backfilled with non-expansive structural fill material compacted to a minimum of 95% relative compaction.

E. Excavations for footings shall be approved by the geotechnical engineer (provided by contractor) prior to placement of concrete and reinforcing.

F. Fill should be moisture conditioned to within two percent of the optimum moisture content and placed in horizontal lifts not to exceed eight inches. Fill shall be compacted to minimum 90% relative density as measured by ASTM D1557, method a or d.

#### <u>Concrete:</u>

A. Concrete construction shall conform to American Concrete Institute ACI 318R-05.

B. Concrete shall be regular weight hard rock concrete and shall have the following minimum 28 day compressive strengths:

a. Ramps, Stairs -----3,000 psi b. Drainage structures-----4,000 psi

d. All other concrete-----2,500 psi

C. Concrete delivery tickets shall record all free water in the mix at batching plant, added for consistency by driver, and any additional request by contractor up to the maximum amount allowed by the mix design.

D. All inserts, anchor bolts, plates, and other items to be cast in the concrete shall be hot-dipped galvanized according to ASTM A153 unless otherwise noted.

E. Reinforcing bars, anchor bolts, inserts, and other items to be cast in the concrete shall be secured in position prior to placement of concrete.

F. Conduits, pipes, and sleeves passing through a slab or footing that do not conform to typical details shall be located and the proposed construction detail submitted to the Engineer for approval.

G. Conduits, pipes, and sleeves embedded within a slab or wall (other than those merely passing through) shall be:

a. No larger in outside dimensions than one third the overall slab or wall thickness in which they are embedded.

b. Placed in the middle one third of slab or wall thickness

c. Spaced no closer than three diameters or widths on center.

H. Conduits, pipes, and sleeves shall not be placed through or embedded in a beam unless specifically detailed.

I. The contractor shall locate construction joints not shown on the drawings, so as not to impair the strength of the structure and to minimize shrinkage stresses. Submit proposed locations of construction joints to the engineer for approval.

#### Reinforcing Steel:

A. Reinforcing steel shall be deformed bars conforming to ASTM A615, grade 60.

B. Welded wire fabric shall conform to ASTM A185, galvanized.

C. Clear concrete cover for reinforcing bars shall be as follows, unless otherwise noted: a. Footings, grade beams, etc. cast against earth-----3"

b. Footings, walls, grade beams, etc. formed and exposed to earth or weather—--2" D. Clear distance between the surface of a bar and any surface of a masonry unit shall be not less than 3/4 inch, unless otherwise noted.

E. Reinforcing steel shall be spliced where indicated on plans. Provide lap splice length per typical details and schedule, unless otherwise noted.

F. Bar bends and hooks shall be "standard hooks" in accordance with ACI 318-05.

G. Minimum reinforcement bend diameters shall comply with ACI 318-05, section 7.2

H. Reinforcing steel shall be placed and secured in conformance with CRSI manual of standard practice with placement tolerances per ACI standard 117.

#### Structural Steel:

A. Fabrication and erection of structural steel shall conform to the American Institute of Steel Construction Manual of Steel Construction, thirteenth edition.

B. Structural steel shall conform to ASTM A36 unless otherwise noted.

C. Steel pipes shall conform to ASTM A53, grade B.

D. Plates and bars shall conform to ASTM A36.

E. Welds and welding procedures shall conform to the structural welding code AWS D1.1 of the American Welding Society.

F. Welding shall be performed by welders prequalified for welding procedures to be used.

G. Welding electrodes shall be E70XX.

H. All anchor bolts, plates, and other items to be cast in concrete shall be hot-dip galvanized according to ASTM A153 unless otherwise noted.

I. All steel shall be hot-dip galvanized after fabrication according to ASTM A123.

J. Any damaged galvanized surface shall be repaired as follows:

1) Prepare surface per SSPC—SP1, solvent cleaning.

2) Apply two coats of cold applied galvanizing compound containing 95% metallic zinc content by weight in dry film and 52% solids content by volume.

3) Application rate shall be 1.5 mils dry film thickness per coat.

## Fencing Notes:

A. Chain link fence fabric, pipes, fittings, fasteners, truss rod, posts, hog rings, and tension wire shall be hot-dipped galvanized.

B. Chain link fabric shall be continuous and fastened to end, intermediate and corner posts by tension bands evenly spaced at 15", Max.

C. Wire fasteners shall be No. 12 gauge galvanized tie wire. Chain link fabric shall be 9 gauge, 2" mesh.

D. Chain link fabric shall be fastened to line posts with wire fastenings evenly spaced at 12",

E. Chain link fabric shall be fastened to horizontal rails with wire fastenings evenly spaced at 12", Max.

F. All wire fastenings end shall be wrapped around chain link a minimum of on complete turn. (Hooking of wire ends shall not be permitted.)

G. No splicing shall be allowed on straight run pipes.

H. Top and bottom selvages of chain link fabric shall be knuckled.

I. All field welds and damaged surfaces shall be painted with two coats of ZRC cold galvanizing compound.

J. All fence posts shall be installed evenly spaced, unless noted otherwise on the plans.

K. Afer installation, all bolt ends shall be cut flush with the nuts and ground smooth, painted with two coats cold galvanizing compound.

L. 2" clearance between chain link fence fabric and concrete slab.

#### **Dugout Notes:**

A. All Galvanized iron pipe posts, frames, rails and bench steel frame support connections shall be of welded construction. Ends of pipe braces shall be properly coped prior to welding. All welded connections shall be painted with ZRC cold galvanizing compound or equal, acceptable to the Engineer.

B. Slope of concrete pad shall be as shown on the drawings, except where the exist ground conditions are contrary to the slope. Any changes shall be accepted by the Engineer.

C. Chain link fence fabric, pipes, fittings, fasteners, truss rod, posts, hog rings and tension wire shall be hot-dip galvanized.

D. Chain link fabric shall be continuous and fastened to end and corner posts by stretcher bars with tension bands evenly spaced at 15", max.

E. Wire fastenings shall be No. 12 gauge galvanized tie wire. Chain link fabric shall be 9 gauge, 2" mesh.

F. Chain link fabric shall be fastened to line posts with wire fastenings evenly spaced at 12", G. Chain link fabric shall be fastened to horizontal rails with wire fastenings evenly spaced at

12", max. H. All wire fastening ends shall be wrapped around chain link a minimum of one complete

I. No splicing shall be allowed on straight-run pipes.

J. Top and bottom selvages of chain link fabric shall be knuckled.

K. All field welds and damaged galvanized surfaces shall be painted with two coats of ZRC cold galvanizing compound and two finish coats of ZRC galvute.

L. All fence posts shall be installed evenly spaced, unless otherwise noted on the plan.

M. After installation, all bolt ends shall be cut flush with the nuts and ground smooth, painted with 2 coats cold galvanizing compound.

N. provide 2" clearance between bottom of chain link fence fabric and finish concrete slab.

O. Corrugated metal roof shall be hot-dipped 55% zinc-aluminum alloy coated steel, 24 gauge, deep corrugation, manufacturered in accordance with ASTM A-792, grade 33, structural quality. Corrugated metal roof shall have a minimum section modulas (sx) of 0.105 in. Zincalume coating designation shall be AZ50.

P. Dugout wood bench shall be painted with one coat of devoe paint acrylic latex all-weather primer (11XX) and finished with two coats devoe porch and floor latex (78XX). Finish color shall be "Park Green".

Q. Pipe for posts, rails and roof frame shall be standard weight conforming to ASTM 501 or ASTM A53, type B and hot-dipped galvanized. Pipe shall be manufacturered in the United States of America. Pipe dimensions on this plan are nominal diameter.

Size of Pipe  $1\frac{1}{2}$ " N.D. 3" N.D.

Wieght per foot (lbs)

R. All pipe splicing shall be done in accordance with 4/S-8

S. All wood shall be douglas fir (select no. 2 or better) and wolmanized.

## Backstop Notes:

A. All pipe and post sizes are nominal diameter (N.D.).

B. Pipes, posts, stretcher bars, bands, fabrics, etc. shall be hot-dip galvanized.

C. Pipe connections shall be welded and painted with ZRC cold galvanizing compound.

D. Fabric shall be fastened to end and corner posts by stretcher tension bars and tension bands spaced approximately 15" apart.

E. Wire fastening shall be No.12 gauge galvanized tie wire.

F. Line post wire fastenings shall be spaced 14" apart.

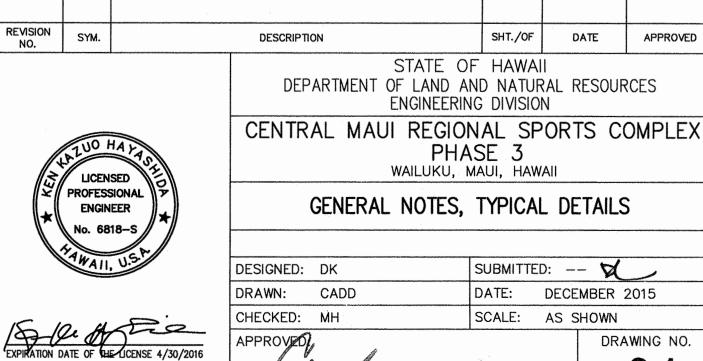
G. Horizontal brace wire fastenings shall be spaced 18" apart.

H. Home plate and pitcher's plate not in contract.

I. No splicing shall be allowed on all straight-run pipes except for line, corner, brace or end posts (one splice only) see detail 4/S-8.

#### Special Inspections:

A. The contractor shall be responsible for providing special inspection of portions of the work as required by the building code at the appropriate time at no additional cost to the State. Frequency of inspection is defined in the IBC, Section 1704 Tables, as amended by the County. The contractor shall correct defective work at no additional cost to the State and pay for re-inspection as required.



SHT./OF

DATE

SUBMITTED: --

DATE: DECEMBER 2015

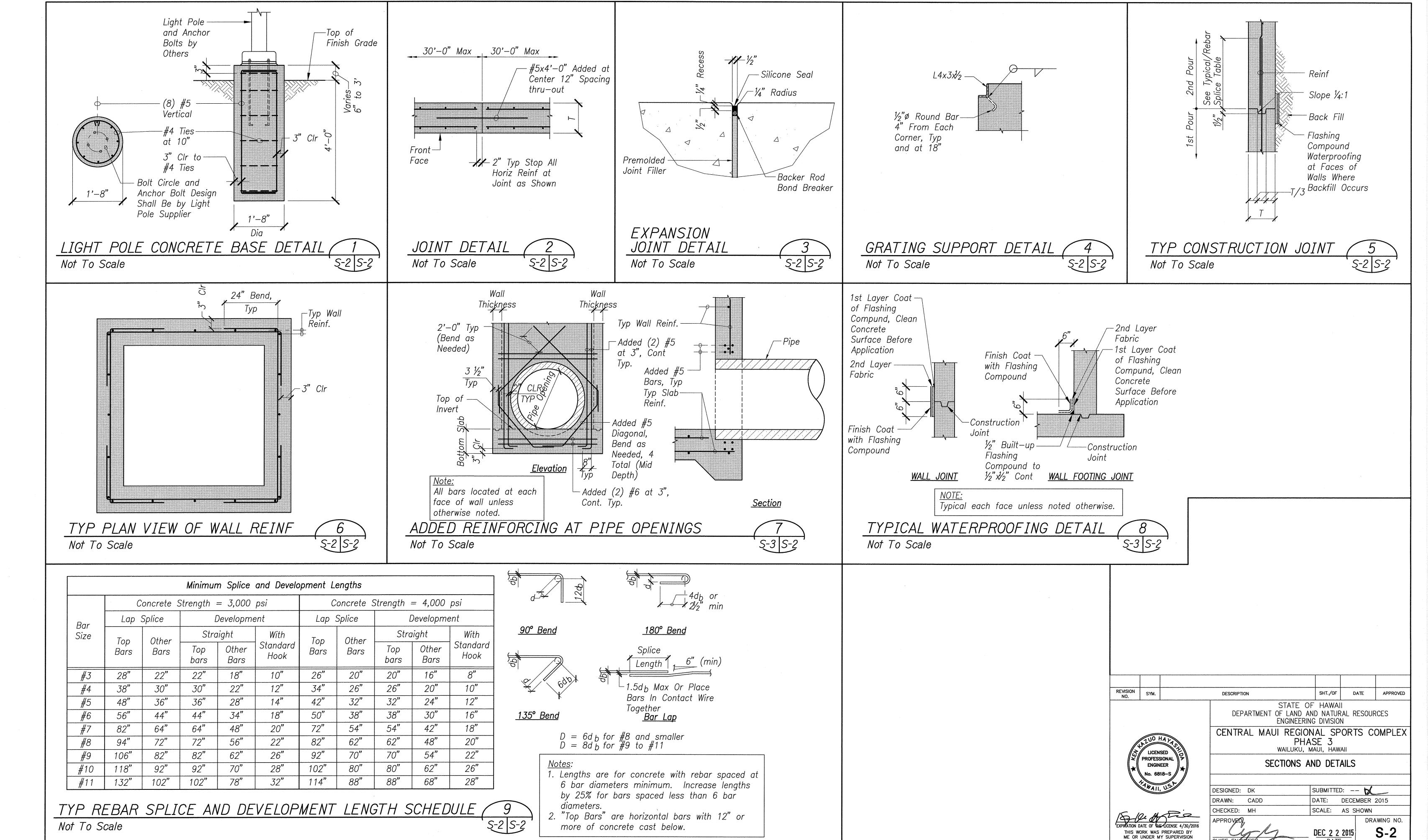
SCALE: AS SHOWN

APPROVED

DRAWING NO.

S-1

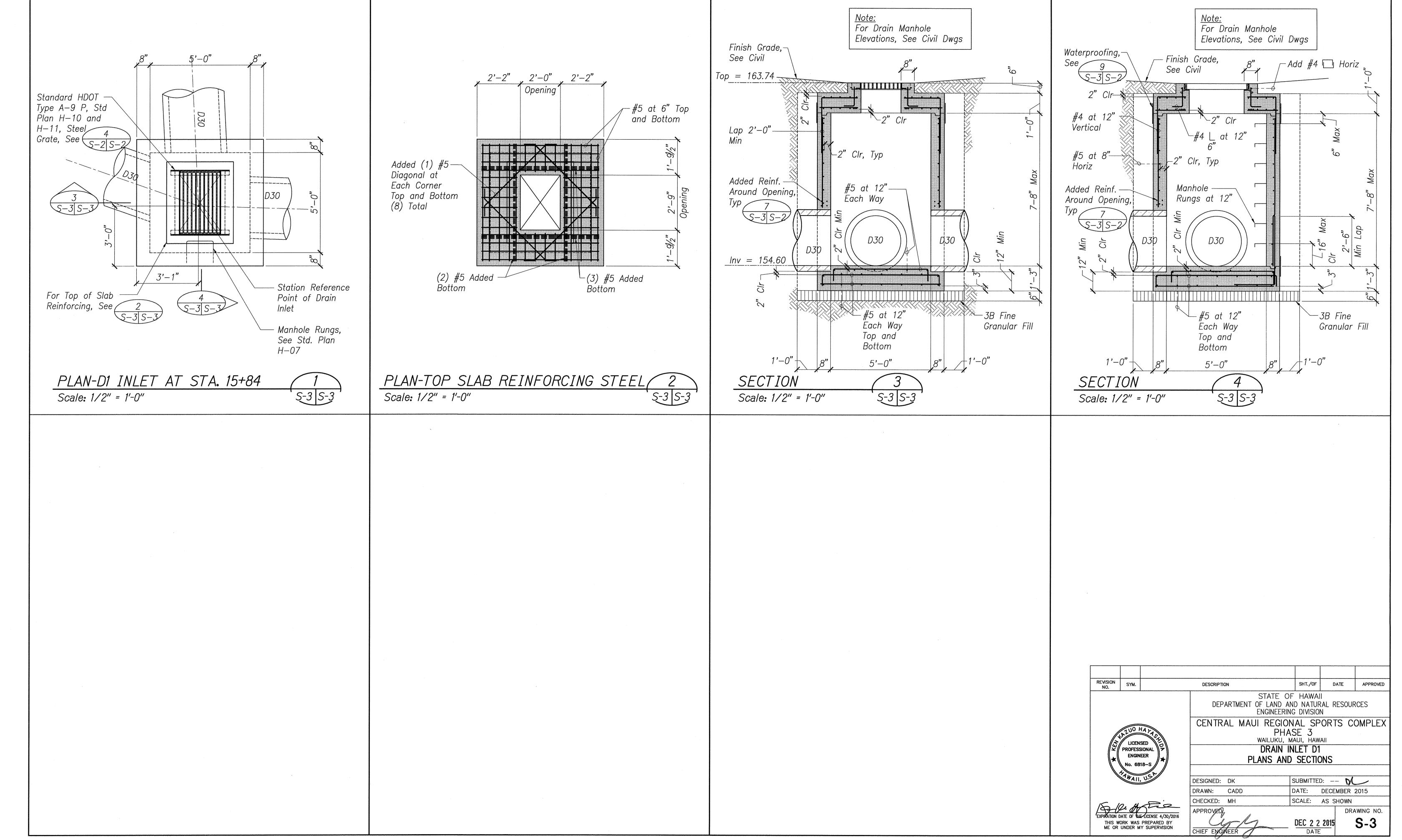
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION



-21\_3145 CMRP-CIVIL PHASE 3\3145\_S02.c

JOB NO. F93C817D

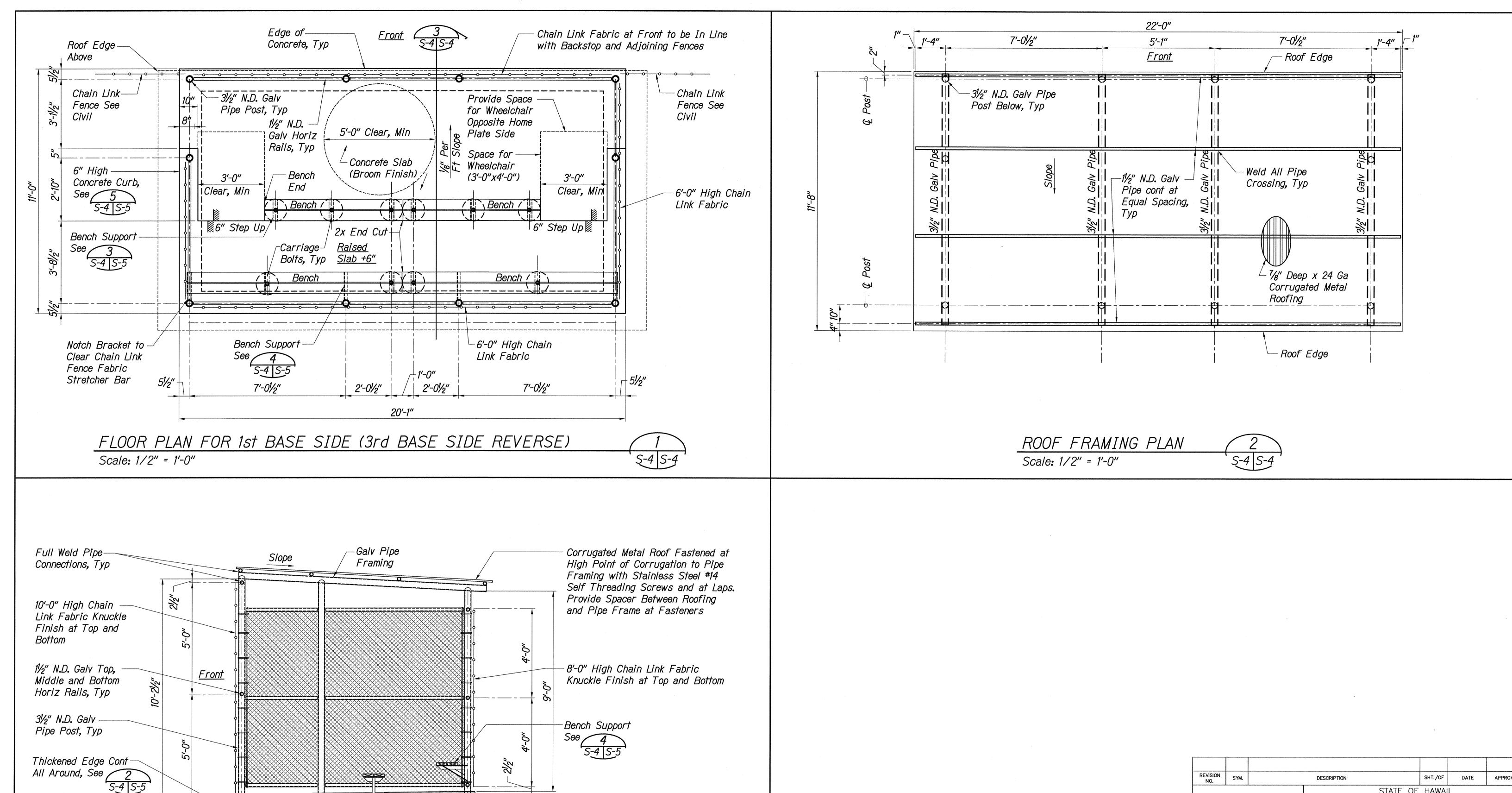
SHEET NO. 32 OF 90 SHEETS

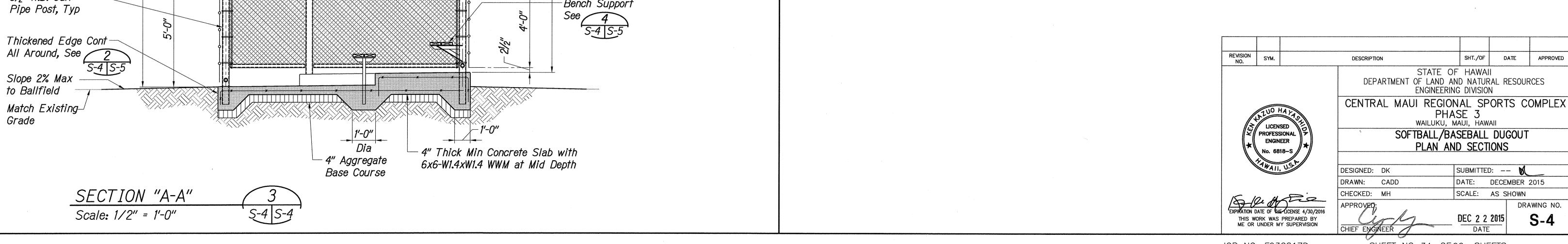


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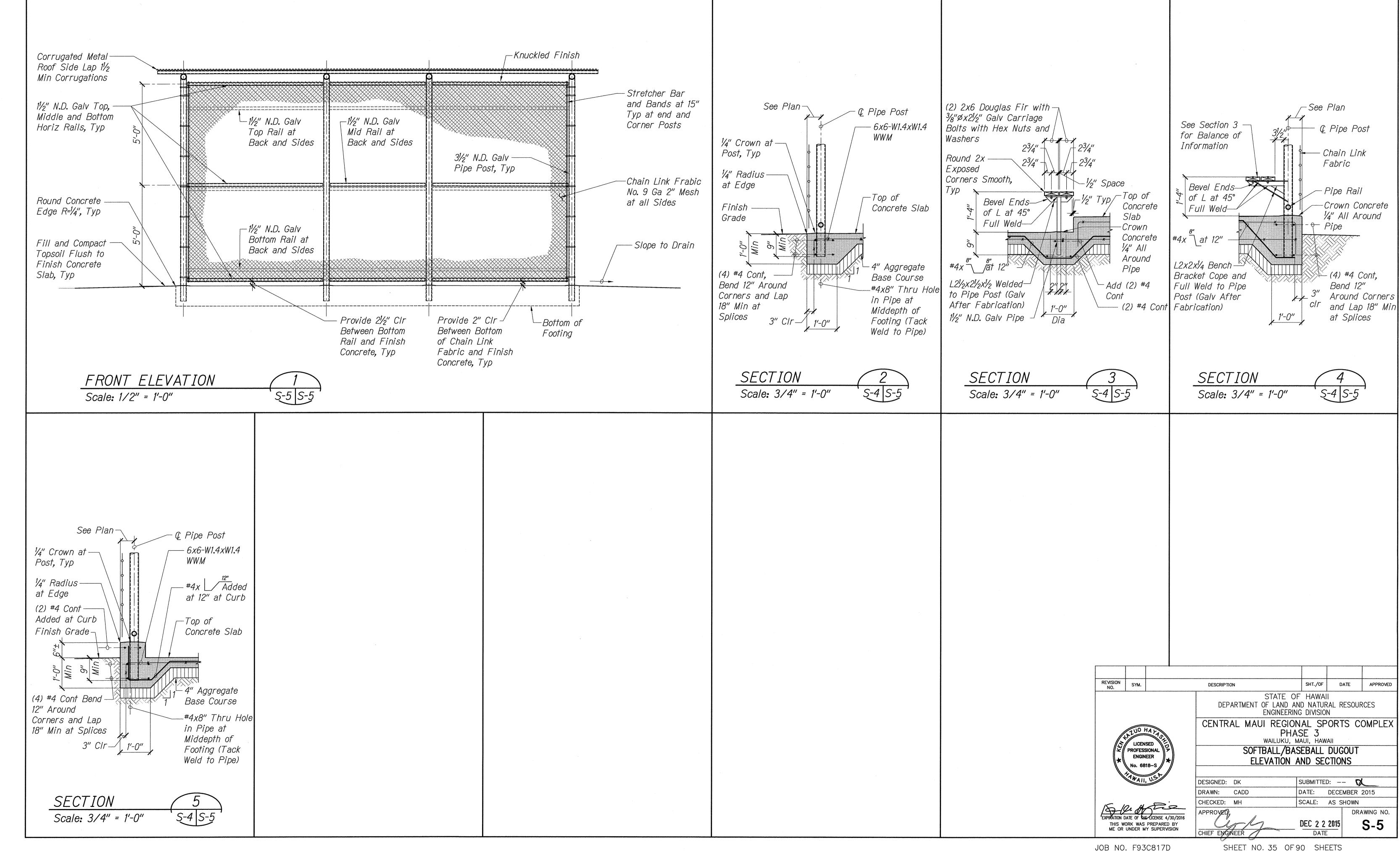
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SHEET NO. 33 OF 90 SHEETS



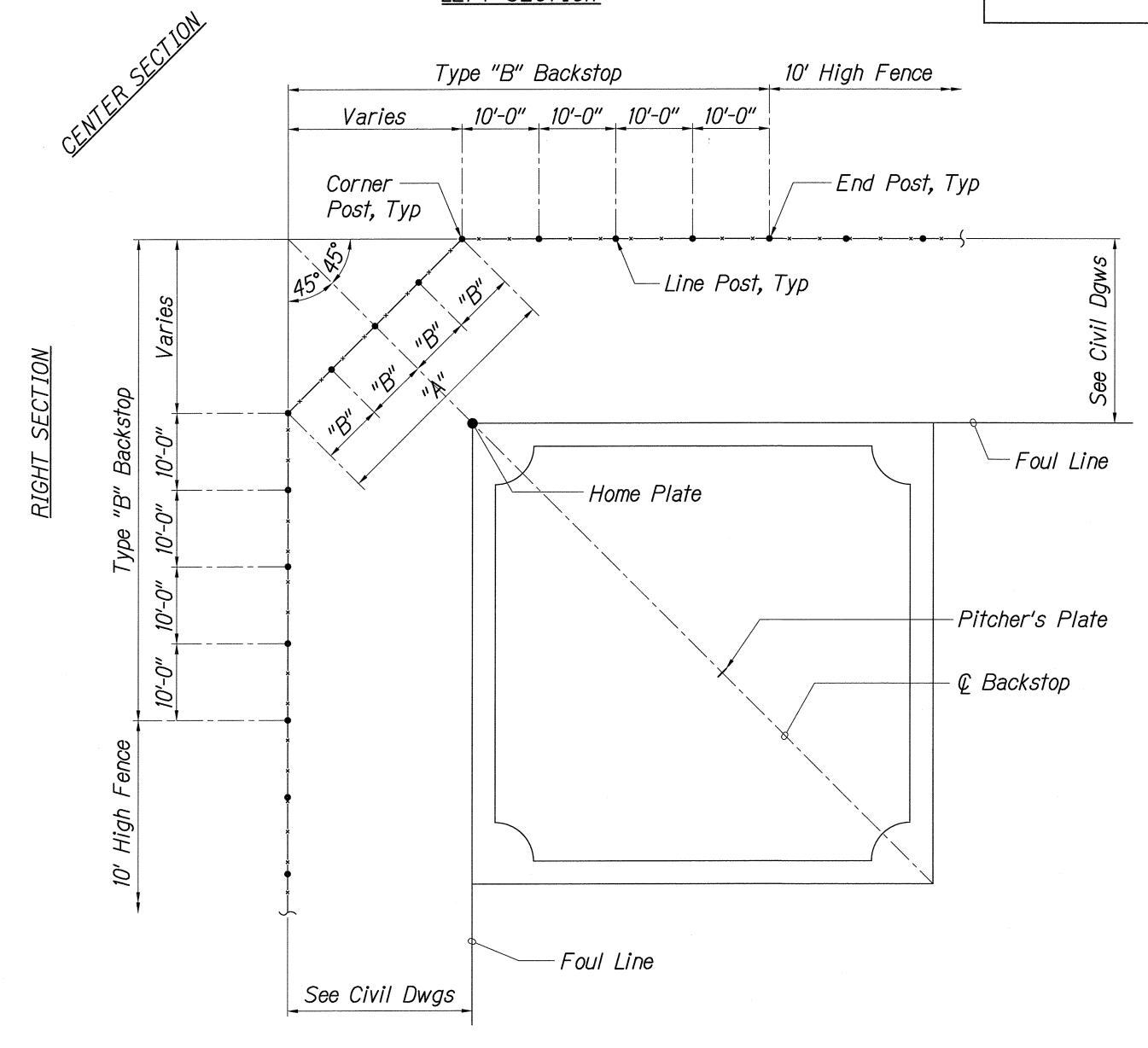


2-21\_3145 CMRP-CIVIL PHASE 3\



Note:
See Civil Dwgs for
Backstop Location
Dimensions and
Field Dimensions

## LEFT SECTION

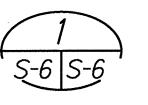


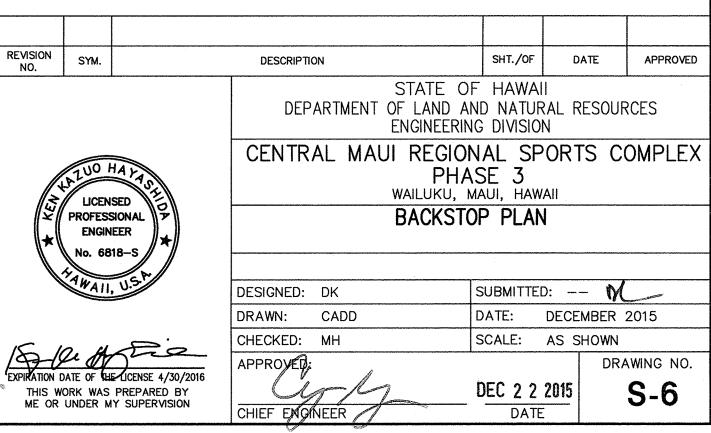
Center Section Backstop (Option #3 Shown)

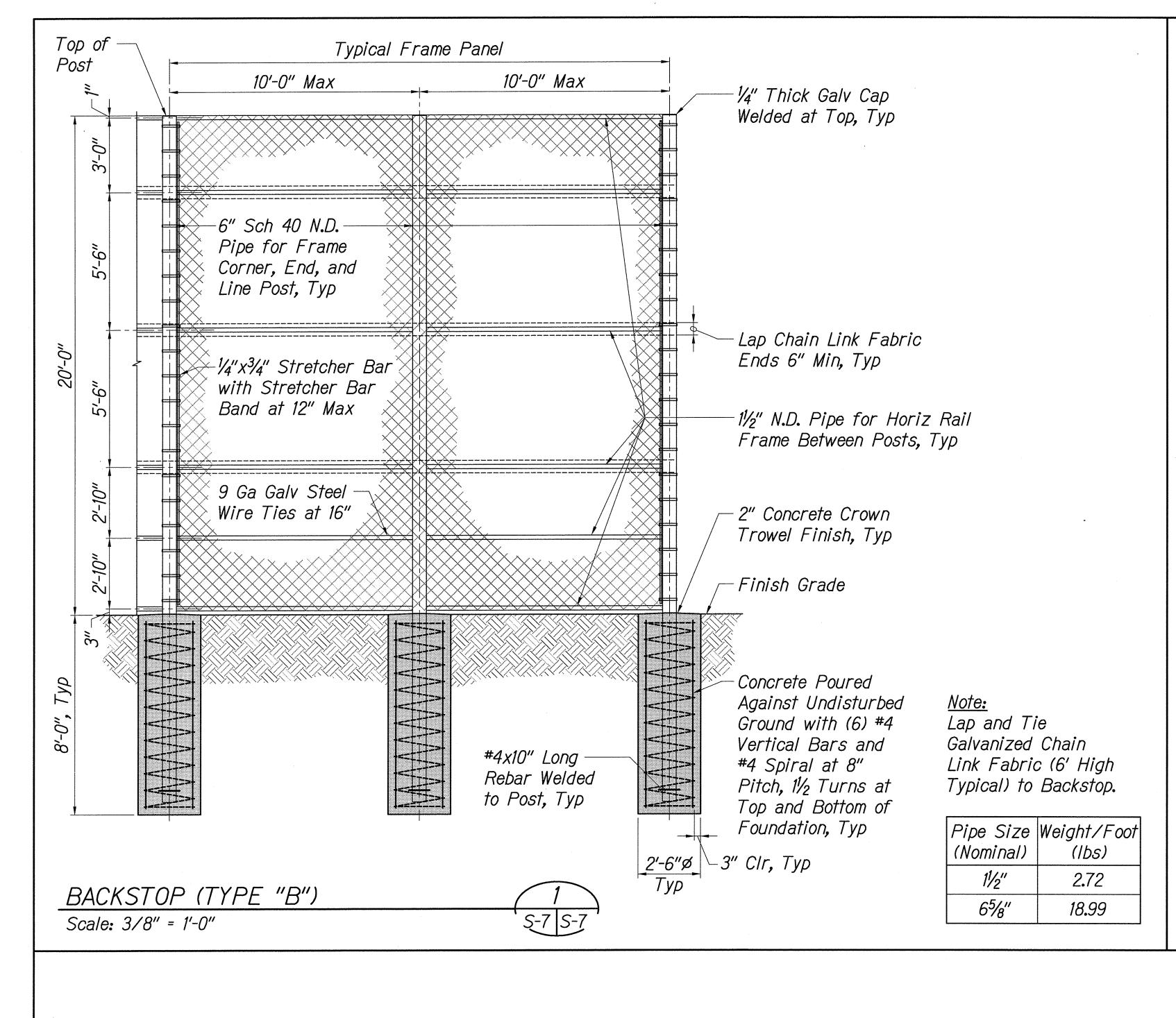
Center Section Backstop Post Layout Schedule											
Backstop Options	"A"	"A"   "B"   Number of F									
YBBF 3 and 4	20.71′	0.71' 10'-0" 3									
YBBF 2	24.85′	8 <b>.</b> 283′	4								
YBBF 1	33.14′	8.285′	5								

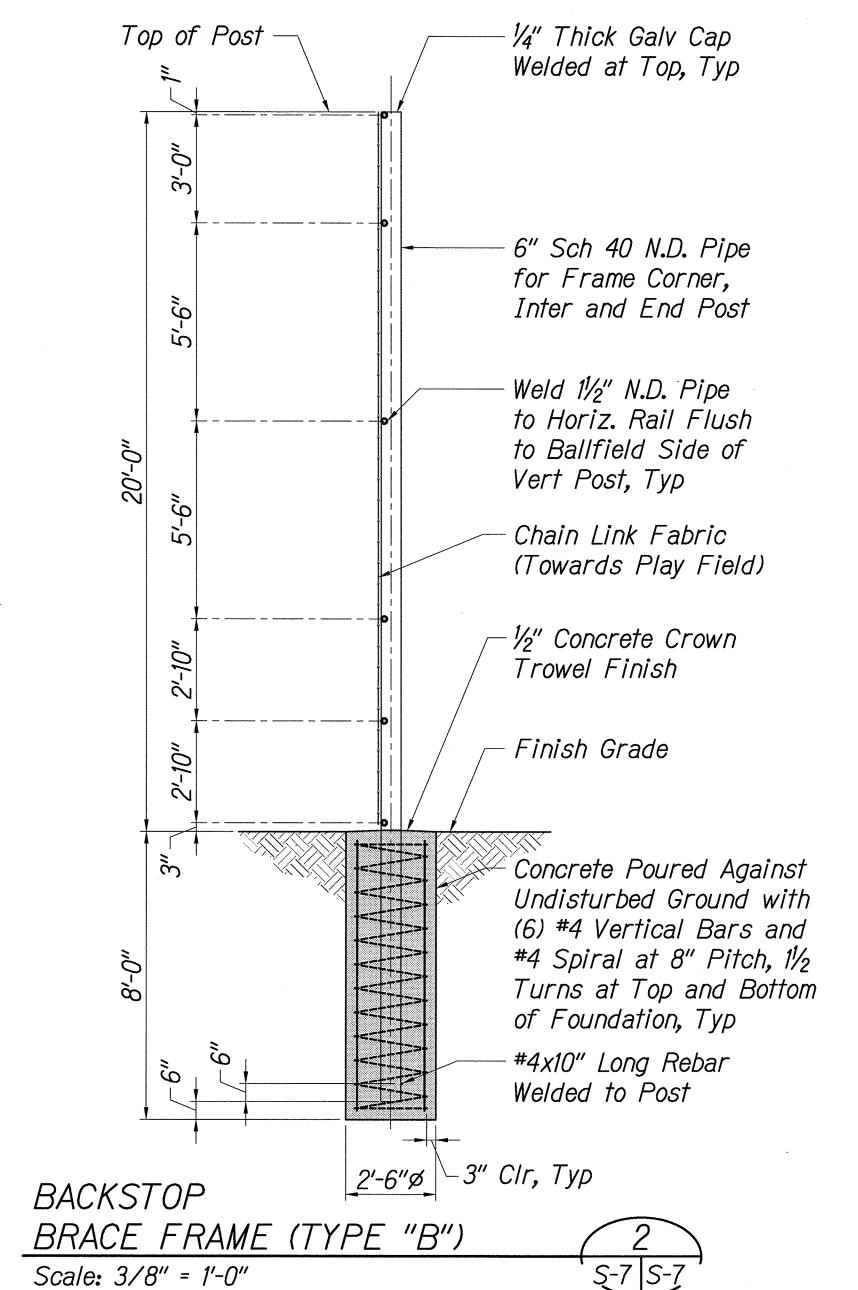
TYPE B DIAMOND LAYOUT

Scale: 3/32" = 1'-0"









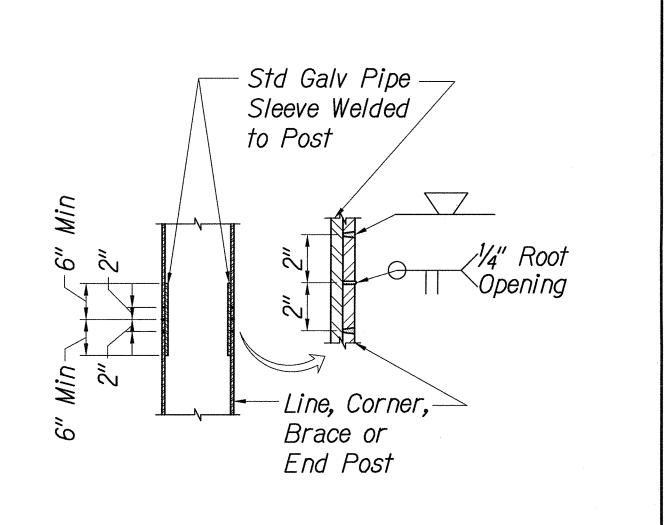
*Notes:* 

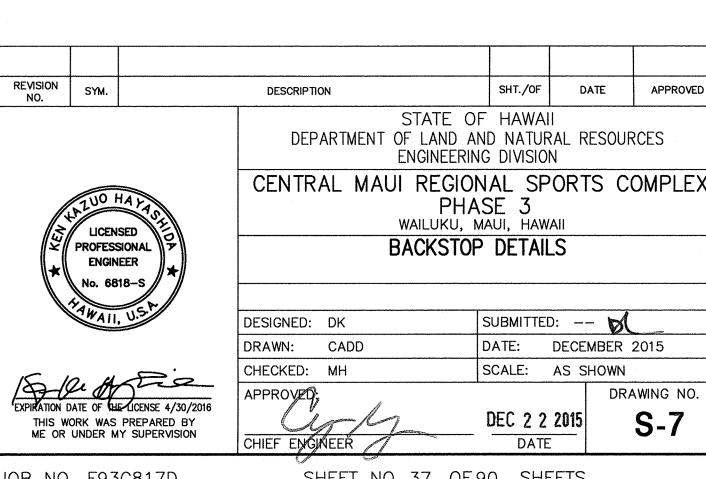
- 1. Posts and rails shall be Schedule 40 (standard weight) pipes.
- 2. Sizes specified are nominal.

SPLICING DETAIL

Not To Scale

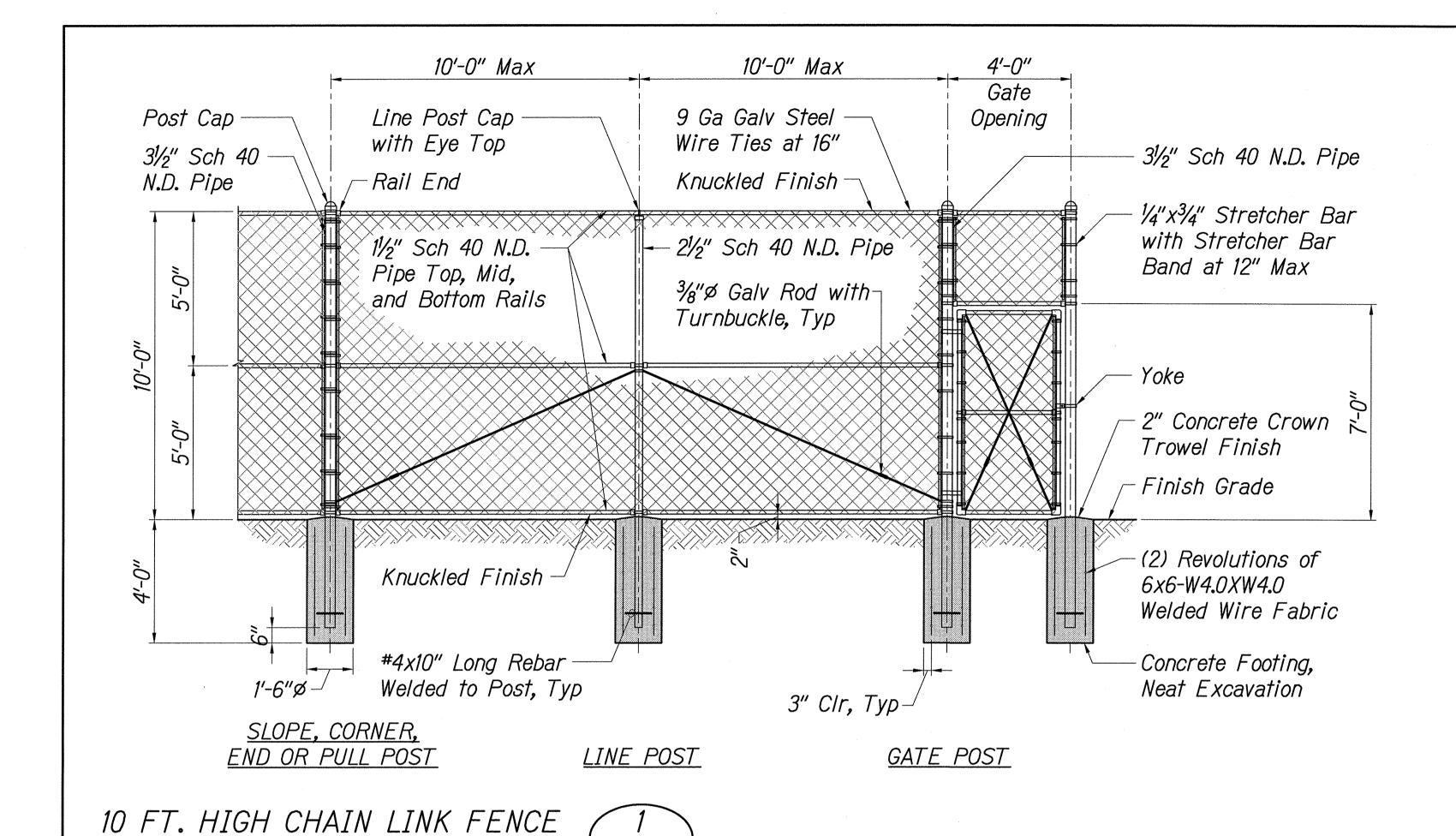
- 3. All fencing materials and components shall be galvanized steel.
- 4. Top rail couplings shall be located within 6" of line posts.
- 5. Top of concrete footing shall be crowned to shed water.
- 6. See Civil drawings for location of fence.





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SHEET NO. 37 OF 90 SHEETS



S-8 S-8

S-8 S-8

Scale: 3/8" = 1'-0"

5 FT. HIGH CHAIN LINK FENCE

Scale: 3/8" = 1'-0"

ipe Size Vominal)	Weight/Foot (lbs)							
11/2"	2.72							
21/2"	5 <b>.</b> 80							
31/2"	9.12							

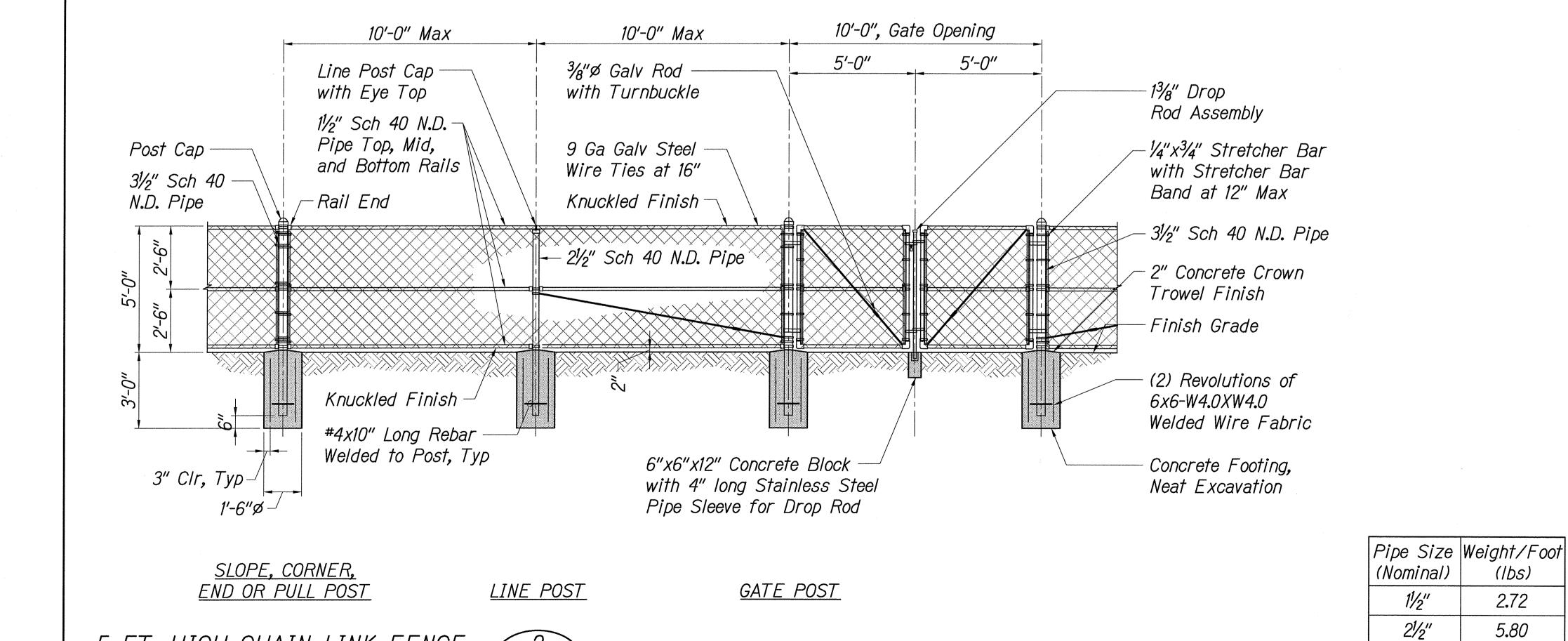
(lbs)

2.72

*5.80* 

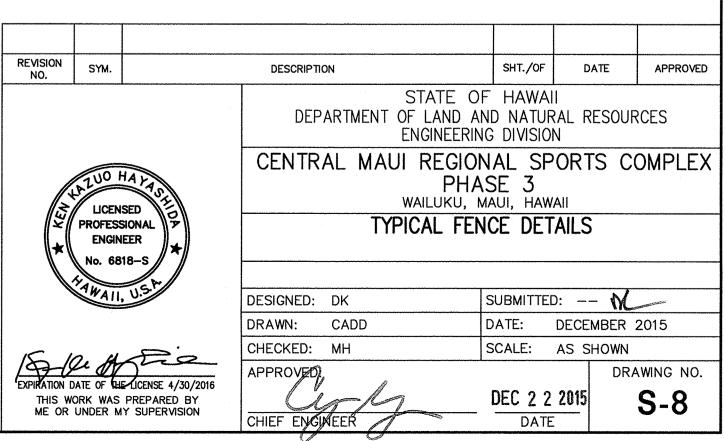
9.12

31/2"



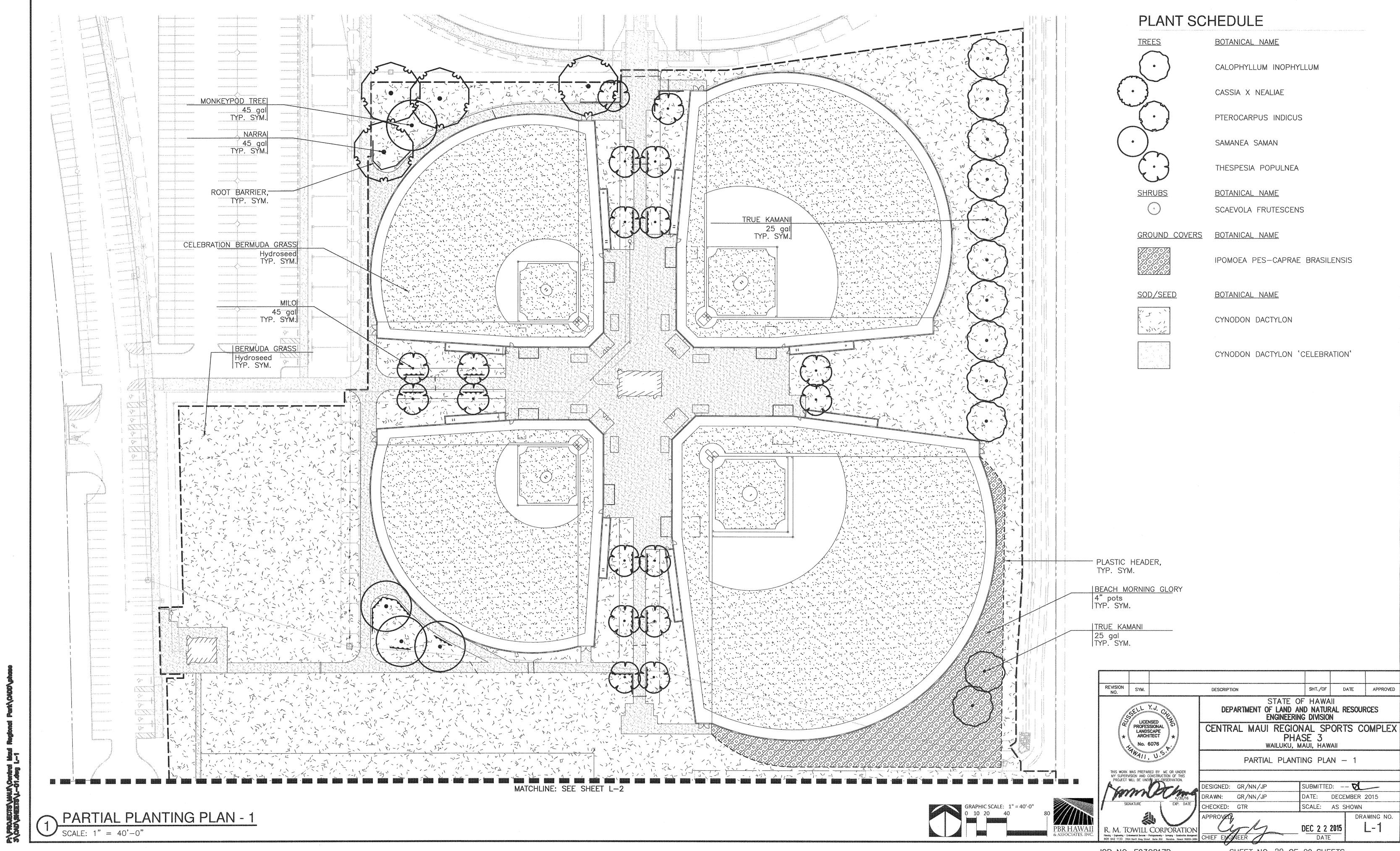
## *Notes*:

- 1. Posts and rails shall be Schedule 40 (standard weight) pipes.
- 2. Sizes specified are nominal.
- 3. All fencing materials and components shall be galvanized steel.
- 4. Top rail couplings shall be located within 6" of line posts.
- 5. Top of concrete footing shall be crowned to shed water.
- 6. See Civil drawings for location of fence.

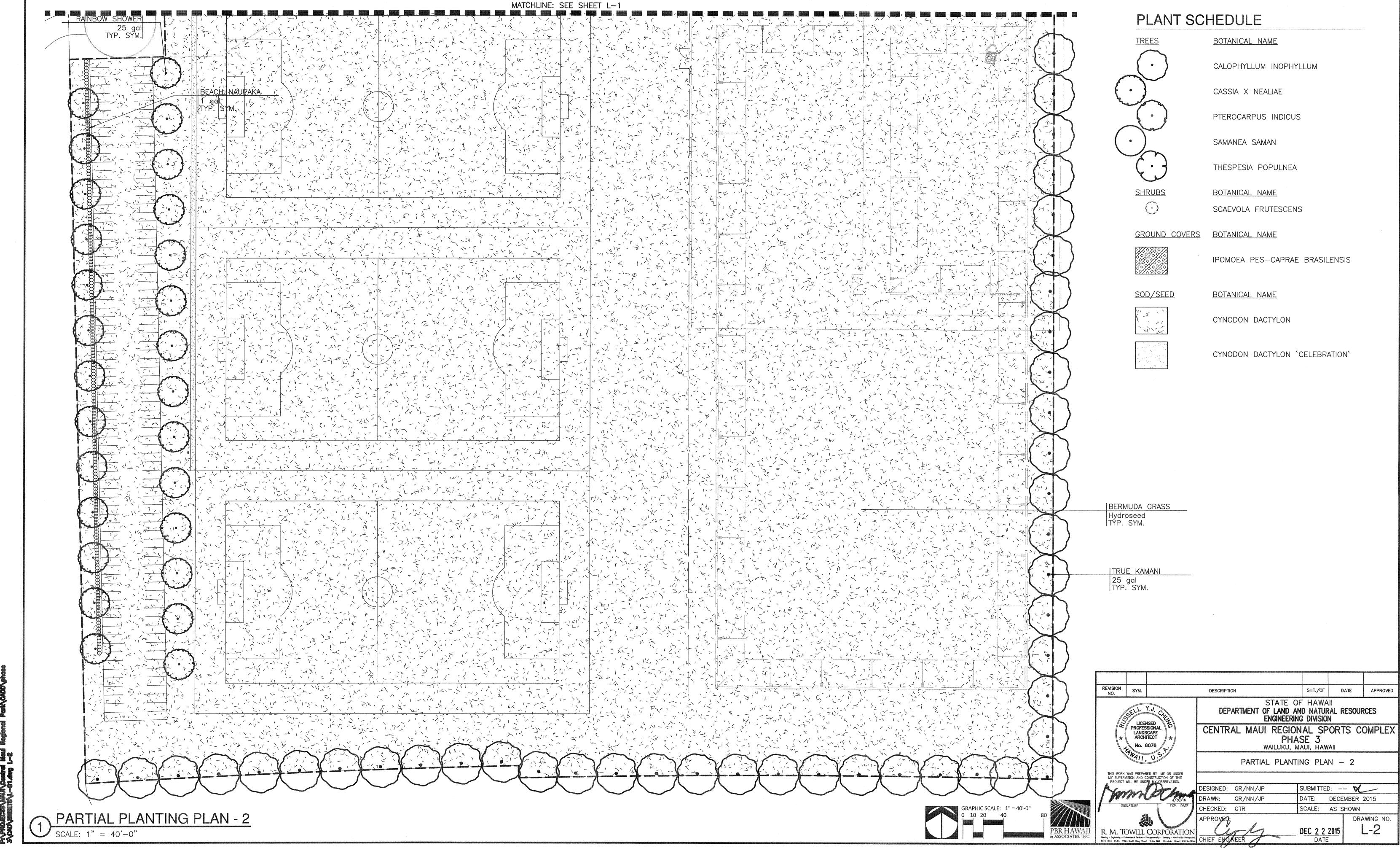


JOB NO. F93C817D

SHEET NO. 38 OF 90 SHEETS



SHEET NO. 39 OF 90 SHEETS



SHEET NO. 40 OF 90 SHEETS

# PLANTING NOTES

- 1. LANDSCAPE CONTRACTOR SHALL FIELD VERIFY ALL PLANT QUANTITIES AND DIMENSIONS PRIOR TO INSTALLATION. QUANTITIES SHOWN ON PLANT LIST AND MATERIAL SCHEDULES ARE FOR REFERENCE ONLY, VERIFY ACTUAL QUANTITIES AS SHOWN ON PLAN. IF THERE IS A DISCREPANCY, THE PLANTING PLAN SHALL TAKE PRECEDENCE.
- 2. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES.
- 3. PRIOR TO TREE AND SHRUB HOLE EXCAVATION, ALL PLANTING LOCATIONS SHALL BE STAKED OUT BY CONTRACTOR FOR APPROVAL BY LANDSCAPE ARCHITECT.

  DO NOT PLANT UNTIL GROUND HAS BEEN PREPARED AND FREE OF STONES GREATER THAN ½", DIA., SITE IS NEAT, ORDERLY, AND THE LANDSCAPE
  ARCHITECT ACCEPTS SITE FOR PLANTING.
- 4. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN PLANT LOCATIONS OR INSUFFICIENT PLANT QUANTITIES DUE TO DIFFERENCE IN PLANS AND ACTUAL FIELD CONDITIONS.
- 5. NOTIFY LANDSCAPE ARCHITECT 30 DAYS PRIOR TO PLANTING OPERATIONS FOR APPROVAL OF ALL PLANT MATERIAL AT PLACE OF GROWTH. ALL PLANT MATERIAL NOT APPROVED BY THE LANDSCAPE ARCHITECT WILL INSPECT PLANTS AT THE PLACE OF GROWTH AND AFTER THE DELIVERY TO THE PROJECT. EACH TREE SHALL BE TAGGED BY THE LANDSCAPE ARCHITECT. TREES DELIVERED TO THE PROJECT WITHOUT LANDSCAPE ARCHITECT'S TAG WILL BE REJECTED.
- 6. PLANTS SHALL MEET SIZE INDICATED BY MINIMUM HEIGHT AND SPREAD. PLANTS SHALL BE STRAIGHT AND UNIFORMLY SHAPED, UNLESS UNIQUE OR SPECIAL CHARACTERISTICS ARE SPECIFIED, AND SHALL BE UNDAMAGED, SOUND, HEALTHY, VIGOROUS AND FREE OF DISEASE AND INSECT INFESTATION. PLANTS NOT CONFORMING TO THESE REQUIREMENTS ON DELIVERY TO THE PROJECT AND AT THE END OF THE PLANT ESTABLISHMENT PERIOD WILL BE REJECTED.
- 7. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE COMPLETE REMOVAL AND DAMAGES RESULTING FROM PLANTING ANY PLANT SPECIES LISTED ON THE HAWAII DEPARTMENT OF AGRICULTURE 'NOXIOUS WEED RULES' AS DEFINED IN THE STATUTE, HAWAII ADMINISTRATIVE RULES 4:68:1 OR THE 'FEDERAL NOXIOUS WEED LIST' AS DEFINED IN TITLE 7 OF THE CODE OF FEDERAL REGULATIONS (CFR), PARTS 360 AND 361.
- 8. ALL TREE WORK MUST ADHERE TO AMERICAN NATIONAL STANDARD INSTITUTE (OR ANSI) A300 TREE CARE STANDARDS AND ANSI—Z133 SAFETY STANDARDS FOR TREE WORK. WORK SHALL BE CONTRACTED TO ARBORISTS THAT HAS BEEN CERTIFIED IN GOOD STANDINGS AS AN ISA CERTIFIED ARBORIST FOR AT LEAST 5 YEARS TO ASSURE THAT TREE WORK IS PERFORMED PROPERLY AND TREES ARE NOT DAMAGED BY PRACTICES SUCH AS TOPPING, FLUSH CUTS, OVER—THINNING, OR CLIMBING WITH SPIKES. CONTRACTOR SHALL SUBMIT A COPY OF THE ISA ARBORIST CERTIFICATION OF GOOD STANDING OF 5 YEARS TO THE LANDSCAPE ARCHITECT A MINIMUM OF 7 DAYS PRIOR TO TREE PRUNING.
- 9. FOR THE DURATION OF CONSTRUCTION WITHIN THE DRIP LINE OF TREES TO REMAIN THERE MUST BE: NO CHANGES, ALTERATIONS OR DISTURBANCE TO THE GRADE BY ADDING FILL, EXCAVATING OR SCRAPING EXCEPT AS NOTED ON PLANS; NO STORAGE OF CONSTRUCTION MATERIAL OR EQUIPMENT; NO STOCKPILING OF ANY CONSTRUCTION MATERIAL OR ANY EXCAVATED MATERIAL NO DISPOSAL OF ANY LIQUIDS (E.G. CONCRETE SLEUTH, GAS, OIL, PAINT); NO VEHICULAR TRAFFIC, EQUIPMENT OR EXCESSIVE PEDESTRIAN TRAFFIC NO ATTACHMENT OF ANY WIRES, ROPES, LIGHTS, OR ANY OTHER SUCH ATTACHMENT OTHER THAN THOSE OF PROTECTIVE NATURE TO ANY TREE TO BE PRESERVED; AND NO CLEANING OF EQUIPMENT OR MATERIAL UNDER THE CANOPY OF ANY TREE OR GROUP OF TREES TO REMAIN.
- 10. PROTECTIVE FENCE SHALL BE ERECTED AROUND TREES IDENTIFIED ON PLAN OR TREES WITH TRUNK DIAMETER GREATER THAN 24 INCHES AS MEASURED AT HEIGHT OF 4 ½ FEET. PROTECTIVE FENCE SHALL BE 4 FEET HIGH ORANGE PLASTIC MESH OR APPROVED EQUIVALENT SUPPORTED ON STEEL T-POST A MINIMUM OF 6 FEET LONG. PROTECTIVE FENCE SHALL SURROUND TREE AT MINIMUM OF 10 FEET FROM TREE TRUNK WITH STEEL T-POST AT A MINIMUM OF 5 FEET ON CENTER.
- 11. IF TREES OTHER THAN THOSE SPECIFICALLY DESIGNATED FOR REMOVAL ARE DAMAGED BEYOND SURVIVAL CONDITIONS AS DETERMINED BY THE LANDSCAPE ARCHITECT, THE CONTRACTOR SHALL REMOVE SUCH TREES AND REPLACE THE TREE WITH A SAME SPECIES AND SIZE AND MAINTAIN FOR THE DURATION OF CONSTRUCTION OR 12 MONTHS WHICHEVER IS GREATER AT NO COST TO THE OWNER.
- 12. PROVIDE AN EVEN LAYER OF PLANTING SOIL OVER ALL PLANTING AREAS. REFER TO THE SPECIFICATIONS FOR TOPSOIL MIXTURE DEPTH. REPRESENTATIVE SAMPLES OF SOIL FROM PROJECT SITE SHALL BE SUBMITTED TO A LABORATORY ACCEPTABLE TO THE LANDSCAPE ARCHITECT FOR ANALYSIS OF REQUIRED SOIL AMENDMENTS. TEST RESULTS AND FERTILIZATION SCHEDULE SHALL BE PRESENTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND ACCEPTANCE BEFORE PLACING PLANTING SOIL. UNIFORMLY DISTRIBUTE FERTILIZER AND AMENDMENTS OVER PLANTING AREAS AS RECOMMENDED BY THE SOIL ANALYSIS REPORT. ROTOTILL TOP LAYER OF SOIL TO EVENLY INCORPORATE FERTILIZER AND AMENDMENTS.
- 13. GUY WIRES, FLAGGING, STAKES, WINDBREAKERS, ETC. SHALL BE MAINTAINED AND REPLACED IF NECESSARY BY THE CONTRACTOR UNTIL THE TREE OR SHRUB IS ABLE TO STAND BY ITSELF. THE CONTRACTOR SHALL REMOVE AND DISPOSE AT THE END OF PLANT ESTABLISHMENT PERIOD.
- 14. AFTER INSTALLATION OF PLANTING & IRRIGATION, LANDSCAPE CONTRACTOR TO PROVIDE MARK—UP INFORMATION OF ANY CHANGES MADE IN THE FIELD TO THE FINAL DESIGN PLANS.
- 15. 6 MONTHS AFTER GRASS ESTABLISHMENT, CONTRACTOR SHALL TOP DRESS ALL GRASSED AREAS WITHIN ALL PLAY FIELDS WITH A 1" EVEN LAYER OF SAND AND ROLLED TO MAINTAIN AN EVEN AND LEVEL PLAY FIELD. 9 MONTHS AFTER GRASS ESTABLISHMENT, CONTRACTOR SHALL TOP DRESS ALL GRASSED AREAS WITHIN ALL PLAY FIELDS WITH AN ADDITIONAL 1" EVEN LAYER OF SAND AND ROLLED TO MAINTAIN AN EVEN AND LEVEL PLAY FIELD.

# LITTLE FIRE ANT PREVENTION PROGRAM

- 1. LANDSCAPE CONTRACTOR WILL NOTIFY LANDSCAPE ARCHITECT OF RECORD AND THE OWNER'S REPRESENTATIVE PRIOR TO DELIVERY OF ANY PLANT MATERIALS TO THE PROJECT.
- 2. LANDSCAPE CONTRACTOR WILL SUBMIT A PLAN TO THE LANDSCAPE ARCHITECT AND THE OWNER'S REPRESENTATIVE FOR APPROVAL TO PREVENT IMPORTATION OF LITTLE FIRE ANT (LFA) ONTO THE PROPERTY, I.E. PROVIDE QUARANTINE OR A HOLDING AREA FOR 6 WEEKS BEFORE PLANT DELIVERY TO PROJECT SITE.
- 3. LANDSCAPE CONTRACTOR WILL BUY PLANTS OR PLANTING MATERIALS ONLY FROM FIRE ANT-FREE NURSERIES AND SUPPLIERS.
- 4. LANDSCAPE CONTRACTOR WILL TEST FOR LFA AND IDENTIFY THE SPECIES CORRECTLY. CONSULT WEBSITE: WWW.LITTLEFIREANTS.COM FOR TESTING METHODS AND SPECIES IDENTIFICATION.
- 5. LANDSCAPE CONTRACTOR WILL BAIT AND ALLOW AT LEAST 2 WEEKS FOR THE BAIT TO BE CARRIED BACK TO THE COLONY FOR ALL PLANTS AND NURSERY MATERIALS AT THE SUPPLYING NURSERIES REGARDLESS OF THE FIRE ANT—FREE CLAIM.
- 6. LANDSCAPE CONTRACTOR WILL APPLY A BARRIER TREATMENT, FOLLOWING THE BAITING, TO ALL NURSERY MATERIALS AT THE SUPPLYING NURSERIES REGARDLESS OF THE FIRE ANT—FREE CLAIM.
- 7. LANDSCAPE CONTRACTOR WILL DRENCH ALL SOILS OR LOOSE NURSERY MATERIALS WITH THE PROPER MIXTURE OF SEVIN PER GALLON OF WATER INDICATED BY THE MANUFACTURER AND FOLLOW MANUFACTURER'S SAFETY PRECAUTIONS.

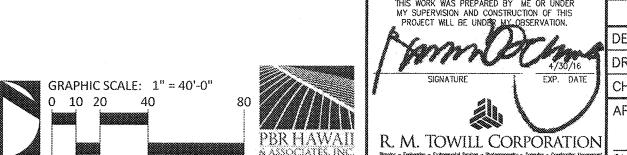
# **GENERAL PROJECT NOTES:**

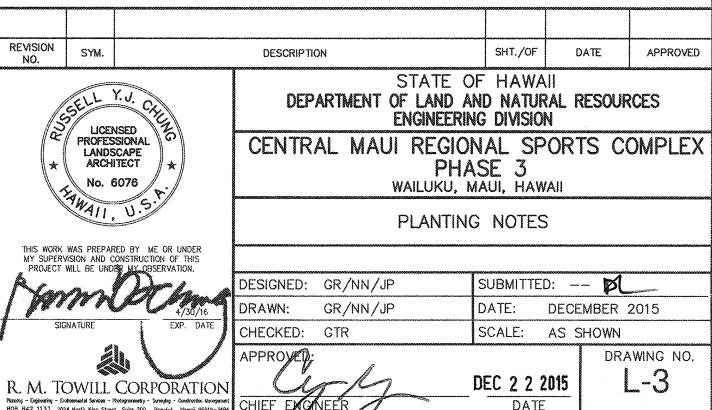
- 1. THESE NOTES ARE TO BE USED FOR GENERAL REFERENCE IN CONJUNCTION WITH, AND AS A SUPPLEMENT TO ANY WRITTEN SPECIFICATIONS, APPROVED ADDENDA, AND CHANGE ORDERS ASSOCIATED WITH THESE LANDSCAPE CONSTRUCTION DOCUMENTS.
- 2. A QUALIFIED SUPERVISOR SHALL BE PRESENT ON SITE AT ALL TIMES DURING DEMOLITION.
- 3. THE LANDSCAPE CONTRACTOR SHALL COORDINATE ALL WORK WITH RELATED CONTRACTORS AND WITH THE GENERAL CONSTRUCTION OF THE PROJECT IN ORDER NOT TO IMPEDE THE PROGRESS OF THE WORK OF OTHERS OR THE CONTRACTOR'S OWN WORK. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO COORDINATE ALL CONSTRUCTION ELEMENT LOCATIONS WITH OTHER TRADES PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATIONS OF EXISTING AND FUTURE UNDERGROUND SERVICES AND IMPROVEMENTS WHICH MAY CONFLICT WITH THE WORK TO BE DONE. NOTIFY THE OWNER OR LANDSCAPE ARCHITECT (LA) IMMEDIATELY SHOULD CONFLICTS ARISE.
- 4. OBSERVATION VISITS TO THE JOB SITE BY THE LANDSCAPE ARCHITECT DO NOT INCLUDE INSPECTIONS OF CONSTRUCTION METHODS AND SAFETY CONDITIONS AT THE WORK SITE. THESE VISITS SHALL NOT BE CONSTRUED AS CONTINUOUS AND DETAILED INSPECTIONS.
- . VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. NOTIFY THE OWNER AND LA)
  IMMEDIATELY SHOULD CONFLICTS ARISE.
- 6. CONSTRUCTION DETAILING, MATERIALS, EQUIPMENT AND PRODUCTS OTHER THAN THOSE SPECIFIED WITHIN THESE PLANS MAY BE CONSIDERED FOR USE PROVIDED PRIOR WRITTEN APPROVAL IS OBTAINED FROM OWNER, THE LA OR THE APPLICABLE GOVERNING AUTHORITY (AS REQUIRED) PRIOR TO IMPLEMENTATION.
- 7. AREAS TO BE PROTECTED FROM GRADING OR CONSTRUCTION DISTURBANCE ARE FENCED OR ROPED—OFF WITH YELLOW ROPES AS PER PLANS BY OWNER AND APPROVED BY LA PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PERFORM ALL CONSTRUCTION ACTIVITY OUTSIDE OF PROTECTED AREAS AND SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF PROTECTED AREAS ON A DAILY BASIS. DAMAGED AREAS THAT HAVE BEEN DESIGNATED TO BE PROTECTED SHALL BE RESTORED TO ORIGINAL CONDITIONS AT CONTRACTORS EXPENSE.
- 8. LANDSCAPE CONTRACTOR (LC) SHALL BE FAMILIAR WITH AND ADHERE TO ALL LOCAL, STATE AND FEDERAL CODES AND REGULATIONS PERTAINING TO THE PROJECT WORK. ANY CONFLICTS MUST BE BROUGHT TO THE ATTENTION OF THE LA IMMEDIATELY.
- 9. LC SHALL INSPECT THE CONDITION OF EXISTING WORK FOR DEFECTS PRIOR TO BEGINNING WORK. ALL HARDSCAPE WILL BE REVIEWED DURING THE FINAL ACCEPTANCE WALK. ANY DAMAGE DUE TO THE LC WORK SHALL BE REPAIRED AT THEIR EXPENSE.
- 10. WHERE 2 OR MORE REQUIREMENTS CREATE OVERLAPPING CONDITIONS, CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE LA OR OWNER'S REPRESENTATIVE IMMEDIATELY FOR INTERPRETATION.

# SPECIAL NOTE - COQUI FROG

(ELEUTHERODACTYLUS COQUI AND/OR ELUTHERODACTYLUS PLANROSTRIS:

- 1. PRIOR TO TRANSPORT TO THE PROJECT, INSPECT, TAKE PRECAUTIONS, AND CERTIFY THAT PLANT MATERIALS, EQUIPMENT AND VEHICLES ARE FREE OF COQUIFROGS AND/OR THIER EGGS.
- 2. IN THE EVENT OF THE PRESENCE OF COQUI FROGS AND/OR THEIR EGGS, THEY SHALL BE COMPLETELY DESTROYED AND REMOVED AND THE PLANT MATERIAL, EQUIPMENT. OR VEHICLE TREATED AS RECOMMENDED BY THE STATE AND RE—INSPECTED.
- 3. REPORT PRESENCE OF COQUI FROGS OR EGGS TO THE HAWAII DEPT. OF AGRICULTURE PEST HOTLINE AT (808) 643-PEST (7378), OR THE MAUI INVASIVE SPECIES COMMITEE (MISC) PH. (808) 573-6472 OR EMAIL: MISCPR@HAWAII.EDU

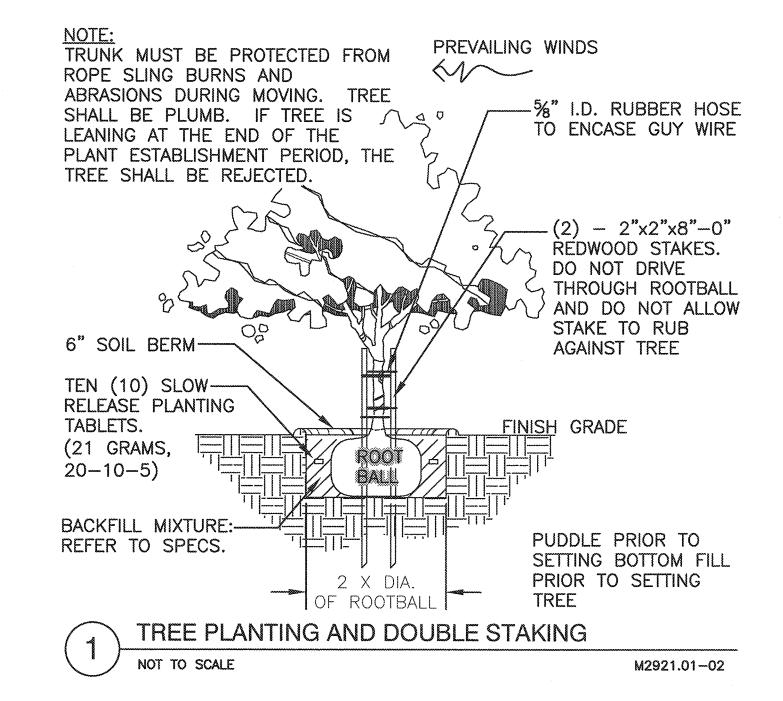


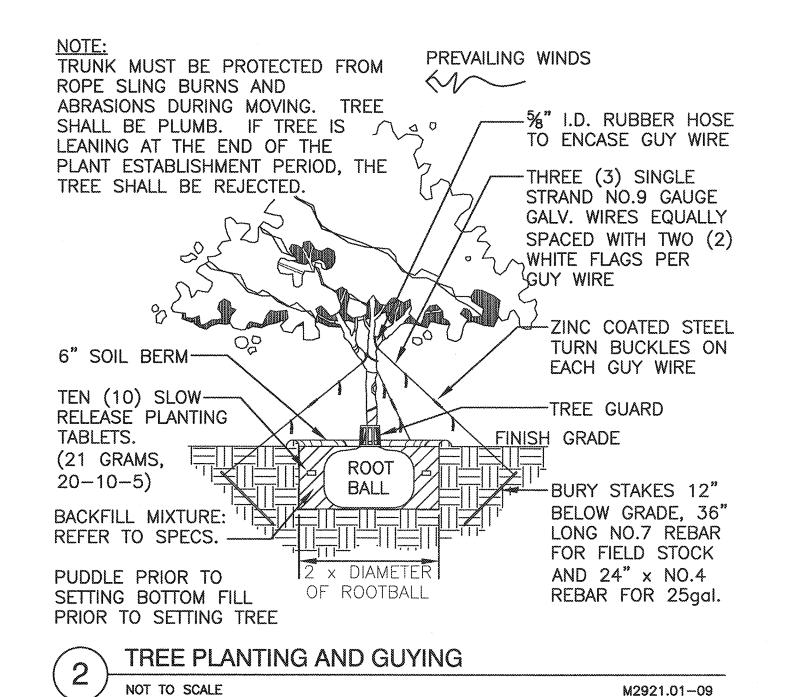


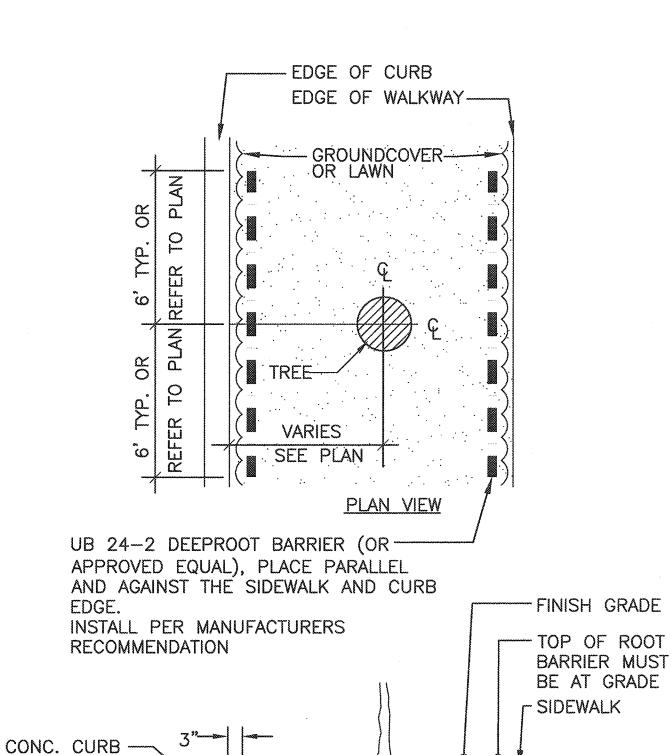
## REFERENCE NOTES SCHEDULE

- 1			
SYMBOL	DESCRIPTION	QTY	DETAIL
acodition littra li	ROOT BARRIER	412 LF	
women advanta substant Impospie empen	PLASTIC HEADER	613 LF	
	2" LAYER SOIL AMENDMENT	1,115,437 SF	
	4" LAYER IMPORTED TOP SOIL (BALL FIELDS)	2,177 CY	
	2" LAYER IMPORTED TOP SOIL	4,464 CY	
	2" LAYER MULCH	17,779 SF	
	1" LAYER SAND AMENDMENT AT 6 MONTHS*	545 CY	
	1" LAYER SAND AMENDMENT AT 9 MONTHS*	545 CY	

\*NOTE:
REFER TO PLANTING NOTES, SHEET L-3
NOTE 15 FOR SAND TOP DRESSING.







ROOT

SOIL BACKFILL

REFER TO PLANTING DETAILS

SECTION VIEW

UB 24-2 DEEPROOT BARRIER (OR APPROVED EQUAL), PLACE
PARALLEL AND AGAINST THE
SIDEWALK AND CURB EDGE.
INSTALL PER MANUFACTURERS

NOTE:
LANDSCAPE CONTRACTOR
SHALL INSTALL 4 FT. DEPTH
RIGID ROOT BARRIER AT
STREET TREES LOCATED
WITHIN 10 HORIZONTAL FEET
OF UNDERGROUND UTILITIES.

RECOMMENDATION

TYPAR BIOBARRIER PROTECTION FABRIC (OR APPROVED EQUAL). INSTALL PER MANUFACTURERS RECOMMENDATION. WWW.BIOBARRIER.COM

NOTE:
SEWER LINES LOCATED WITHIN
10 HORIZONTAL FEET OF A
STREET TREE SHALL BE
WRAPPED WITH BIOBARRIER
PROTECTION FABRIC BY THE
SITE CONTRACTOR.

3 DEEP ROOT BARRIER DETAIL

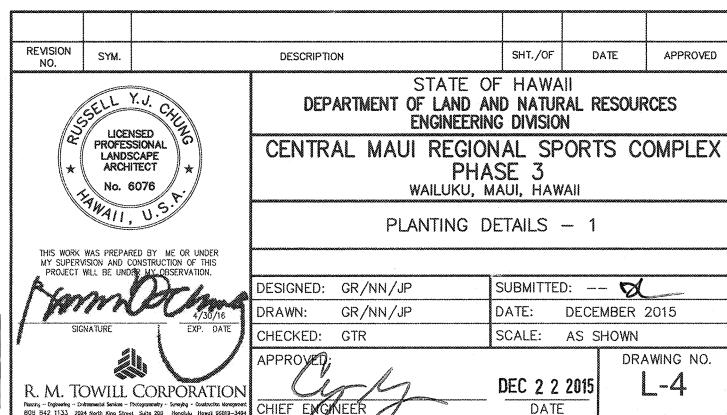
NOT TO SCALE

M2921.01-01

- UTILITY

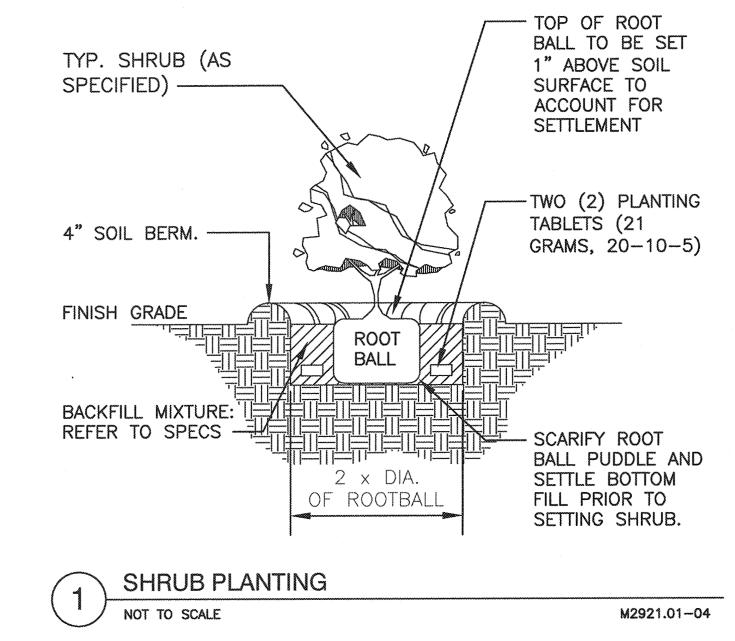
LINE

LINE



JOB NO. F93C817D

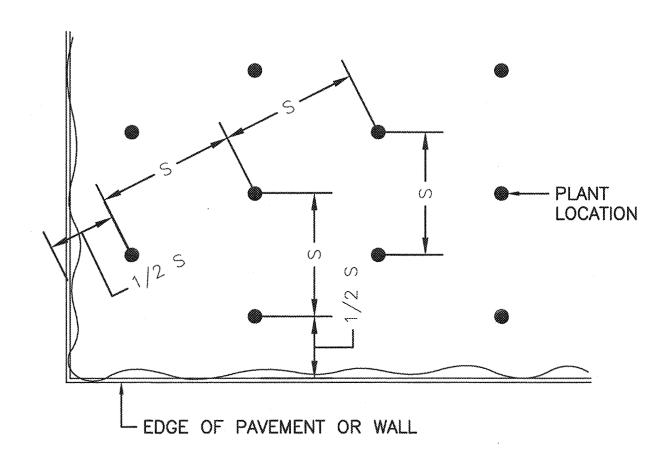
SHEET NO. 42 OF 90 SHEETS



NOTE:

1. S = SPACING, (REFER TO PLANT LIST FOR SPACING)

2. USE SPACING LAYOUT FOR SHRUBS, GROUNDCOVERS, AND ANNUALS



TRIANGULAR SPACING

NOT TO SCALE

M2921.01-05

PLASTIC HEADER:
EPIC EDGE BY EPIC PLASTICS
OR APPROVED EQUAL.

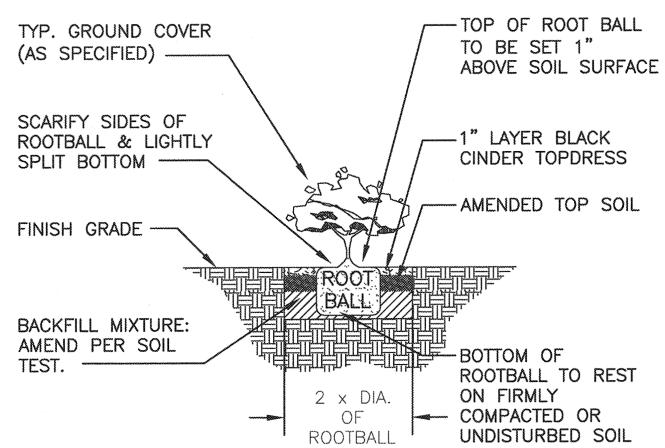
FINISH GRADE

NOTE:
REFER TO MANUFACTURER'S SPECIFICATIONS
FOR INSTALLATION INSTRUCTIONS.

5 PLASTIC HEADER DETAIL

NOT TO SCALE M2921.01-08

NOTE: IMMEDIATELY AFTER PLANTING, WATER HEAVILY TO ENSURE SOIL SETTLES AROUND ROOTS.



GROUND COVER PLANTING

NOT TO SCALE

UNDISTURBED SOIL

M2921.01-03

- HYDRO SEED/ HYDRO SPRIG: SHALL BE SPECIFICALLY PROCESSED FIBER CONTAINING NO GROWTH OR GERMINATION INHIBITING FACTORS. IT SHALL BE SUCH THAT AFTER ADDITION AND AGITATION IN THE HYDRAULIC EQUIPMENT WITH SEEDS/SPRINGS, FERTILIZER, WATER AND, OTHER ADDITIVES NOT DETRIMENTAL TO PLANT GROWTH. THE FIBERS WILL FORM A HOMOGENEOUS SLURRY. WHEN HYDRAULICALLY SPRAYED ON THE SOIL, THE FIBERS SHALL FORM A BLOTTER-LIKE GROUND COVER WHICH READILY ABSORBS WATER AND ALLOWS INFILTRATION, COMPLETE COVERAGE OF THE SURFACE SHALL BE ATTAINED. -2" OR 4" LAYER TOP SOIL

HYDRO-SEED/SPRIG DETAIL

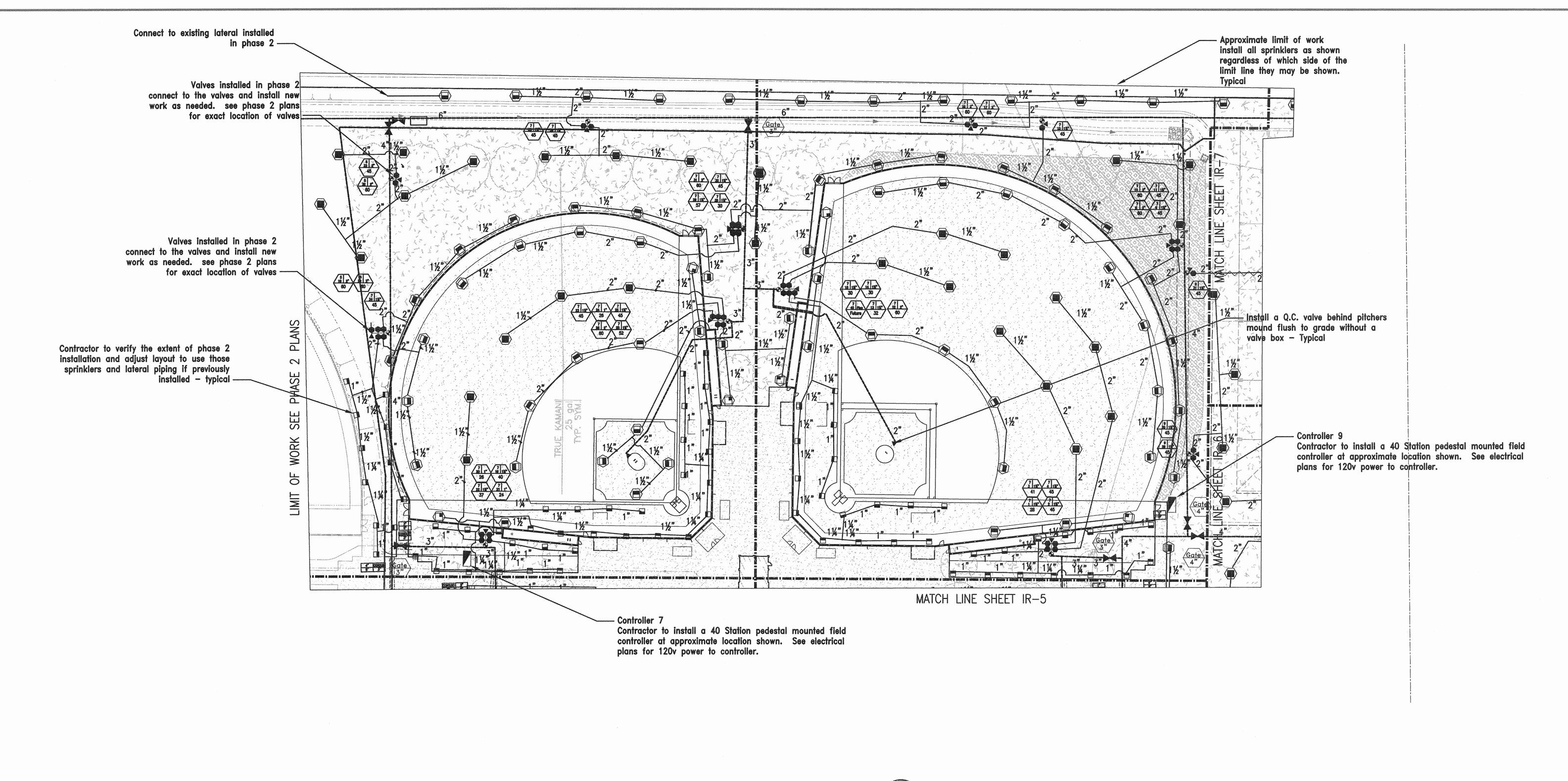
NOT TO SCALE

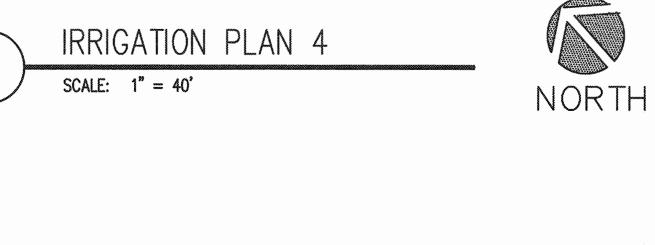
M2921.01-07

REVISION SYM. SHT./OF DATE APPROVED DESCRIPTION STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION LICENSED PROFESSIONAL CENTRAL MAUI REGIONAL SPORTS COMPLEX LANDSCAPE ARCHITECT PHASE 3 No. 6076 WAILUKU, MAUI, HAWAII PLANTING DETAILS - 2 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. DESIGNED: GR/NN/JP

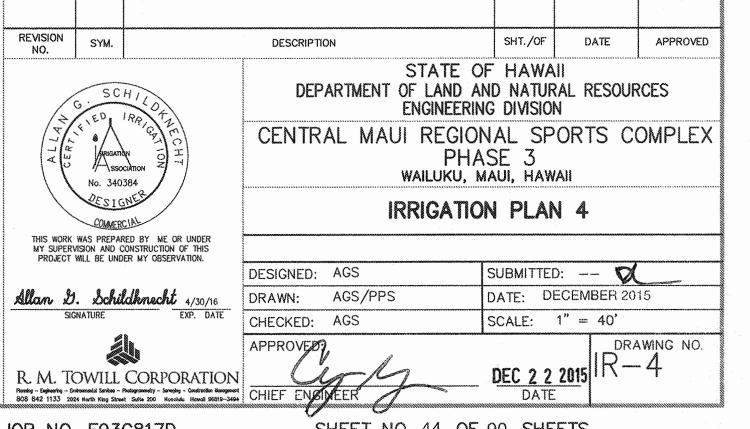
A/30/16 DRAWN: GR/NN/JP SUBMITTED: -- DI DATE: DECEMBER 2015 CHECKED: GTR SCALE: AS SHOWN DRAWING NO. DEC 2 2 2015 R. M. TOWILL CORPORATION Planety - Engineering - Scrictomental Services - Protogrammetry - Surveying - Ozostruction Management CHIEF ENGINEER DATE

PBR HAWAII



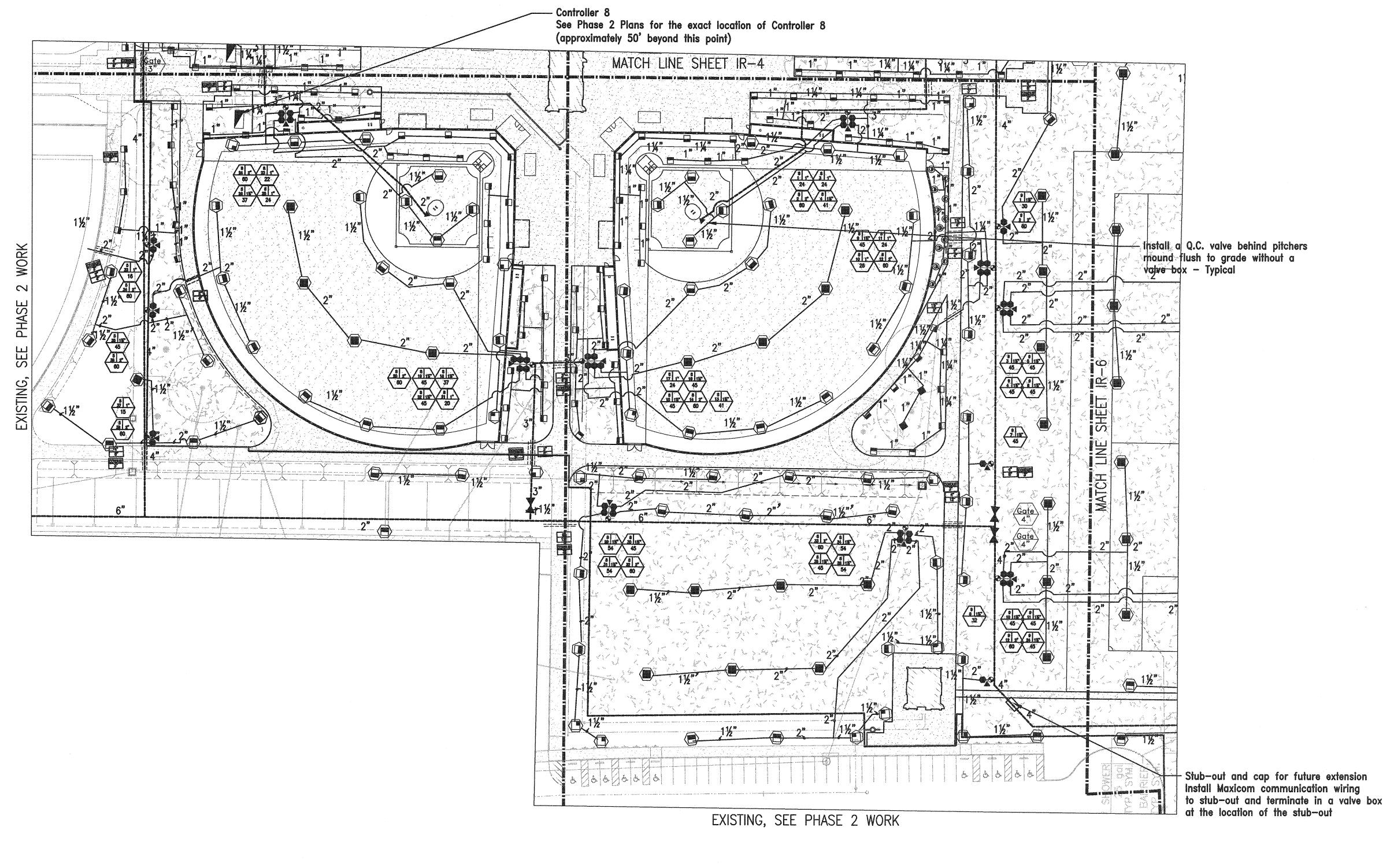


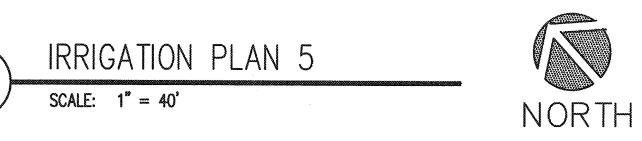
**GRAPHIC SCALE:** 

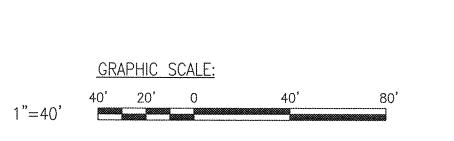


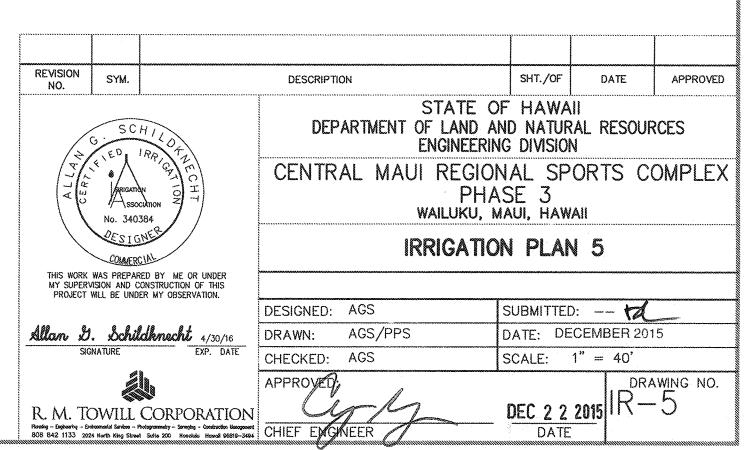
JOB NO. F93C817D

SHEET NO. 44 OF 90 SHEETS

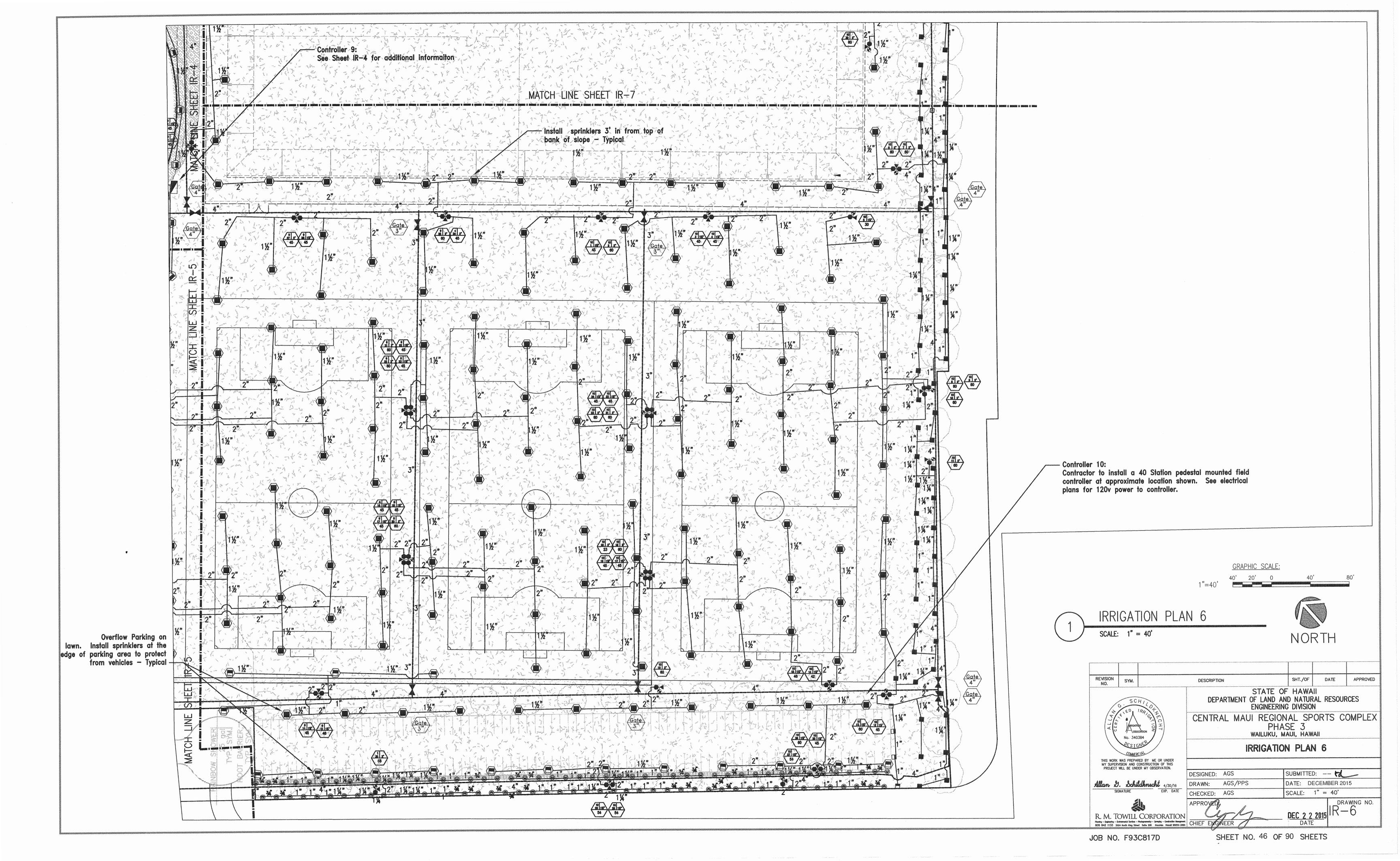


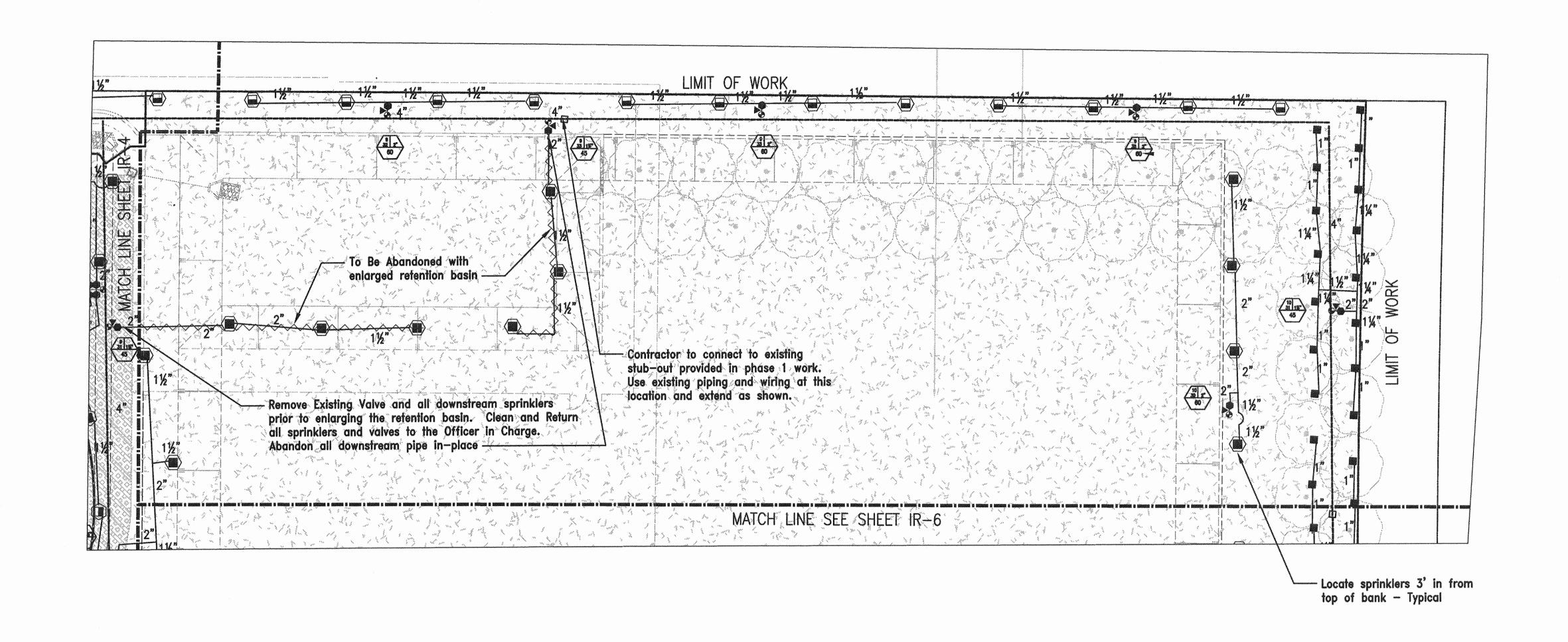


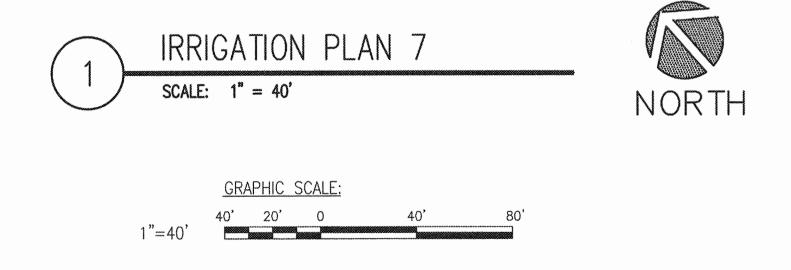


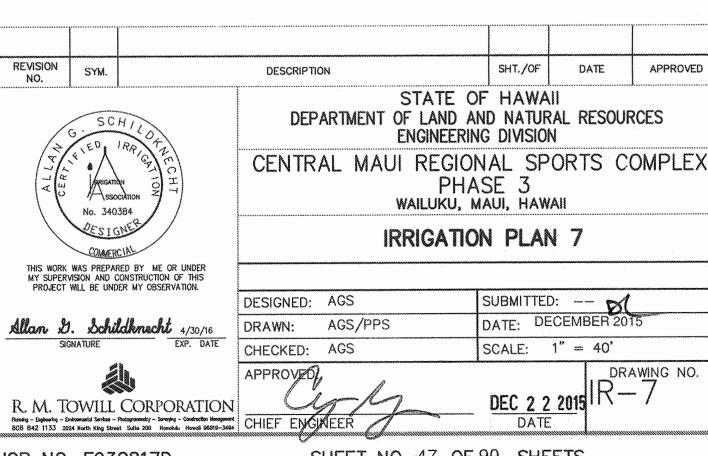


SHEET NO. 45 OF 90 SHEETS

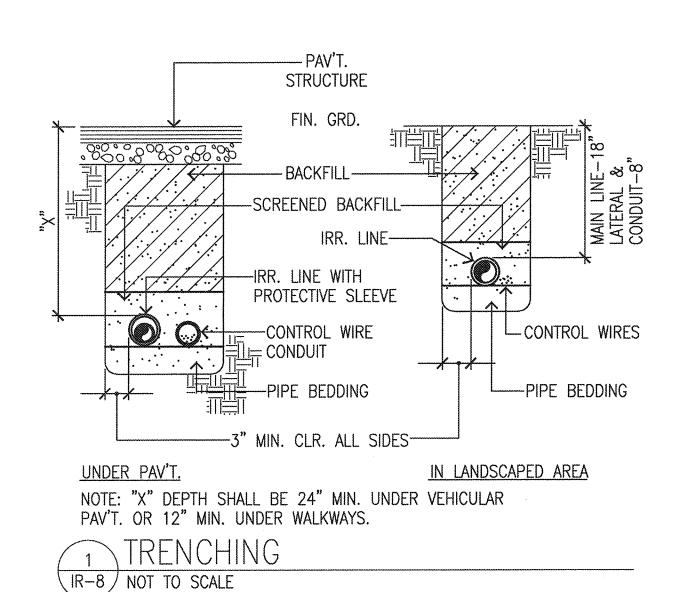


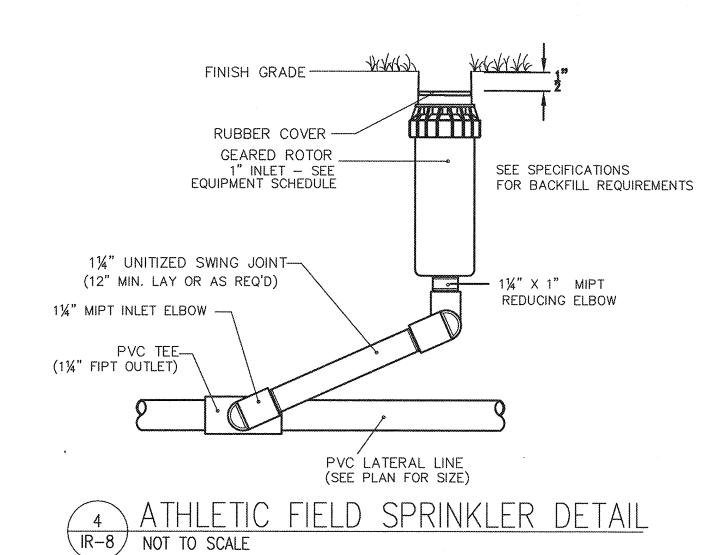


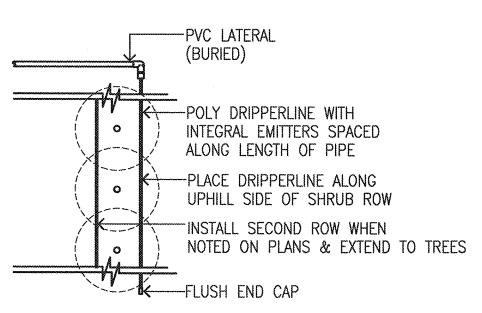




SHEET NO. 47 OF 90 SHEETS

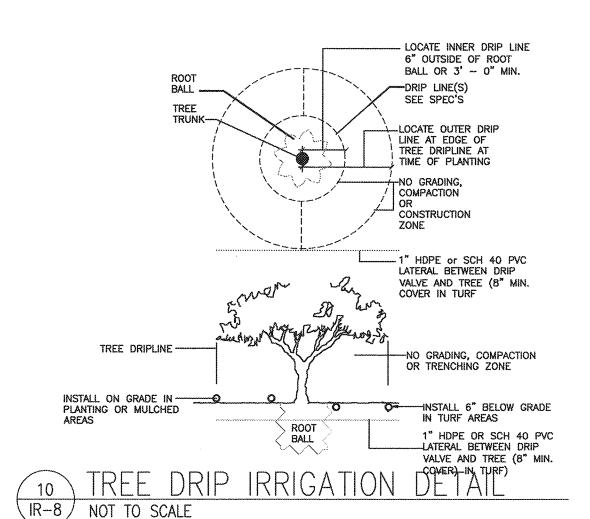




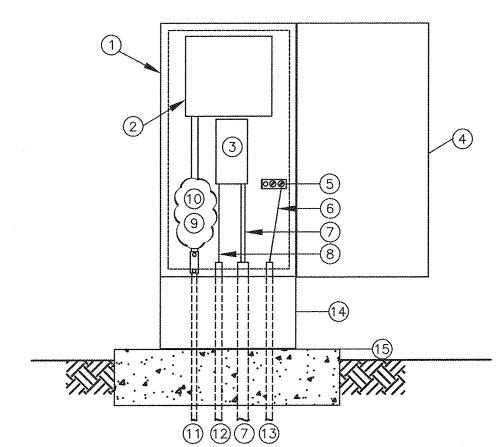


NOTE: MONITOR AND MODIFY AS REQ'D., DRIPPERLINE PLACEMENT TO INSURE THAT ANY SALT ACCUMULATION IS PUSHED OUTSIDE OF DRIP LINE AND EXTENT OF SHRUB ROOTS.





— THD X THD REDUCING



- ① STAINLESS STEEL VIT SB-24DSS ENCLOSURE
- ② RAIN BIRD ESP-40SAT-2W FIELD CONTROLLER
- 3 TERMINAL STRIP
- (4) ENCLOSURE DOOR
- (5) GROUNDING BUSS BAR
- (6) #10 COPPER GROUND WIRE FROM GROUNDING BUSS BAR TO GROUNDING GRID (SEE GROUNDING GROUND WIRE TO GROUNDING ROD GRID (SEE GRID DETAIL 1 SHEET IR-7 )
- 7 COMMON AND CONTROL WIRES FOR VALVES
- 8 TWO-WIRE PATH

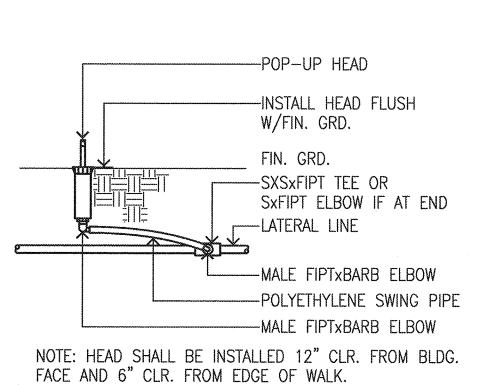
NOTE: INSTALL A PAIGE 250090LED ARRESTOR ON THE 120V SUPPLY TO EACH CONTROLLER WITHIN ENCLOSURE - INSPECT MONTHLY

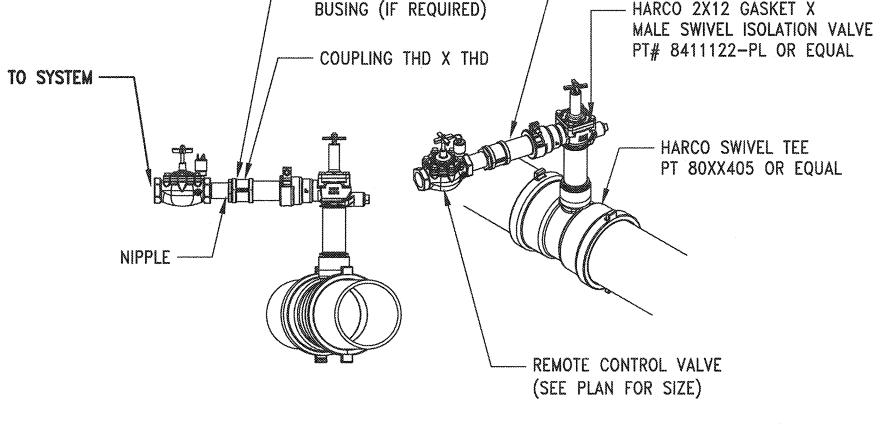
 REFER TO LOCAL ELECTRIC CODE FOR CONNECTIONS

- 1 RAIN BIRD WARRANTY REQUIRES PROPER SURGE PROTECTION. USE INTERMATIC AG2401 OR TRIPPLITE ISOBAR
- 120 VAC ELECTRICAL SERVICE
- 1 PE-CABLE TO OTHER SATELLITES
- GROUNDING PLATE DETAIL)
- 14 STAINLESS STEEL VIT PED-24DSS CONTROLLER PEDESTAL TO MATCH DEEP ENCLOSURE
- (5) CONCRETE SLAB

POP-UP HEAD

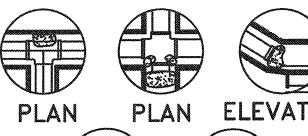
IR-8 NOT TO SCALE





11 MAIN LINE TAP DETAIL (IR-8 ) NOT TO SCALE

2 FIELD SATELLITE CONTROLLER | IR-8 | NOT TO SCALE



PLAN

**ELEVATION** BEARING AREA (TYP.)

UNDISTURBED SOIL (TYP.)

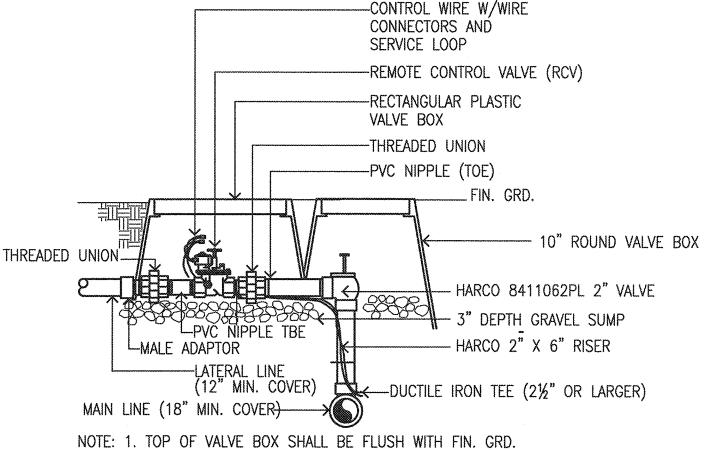
TABLE OF AREAS IN SQ. FT. AT THRUST BLOCK IN VERTICAL CONTACT WITH SOIL OF VARYING BEARING VALUES. WATER PRESSURE = 225 P.S.I.

	TEES, BENDS, ENDS					80 DEG. BEND			45 DEG. BEND			22-1/2 DEG. 8000						
	PS SIZE	Α	8	С	D	Α	8	C	D	Α	8	С	D	A	В	C	۵	METRIC SIZE
-	<6"	6.0	4.5	2.0	1.5	8.0	6.0	2.5	2.0	4.5	3.5	1.5	1.5	2.5	2.0	1.0	1.0	<150MM
	8*	10.0	7.5	3.0	2.5	14.0	10.5		3.5		3.0	2.5	2.0	4.0	3.0	1.5	1.0	200MM
	10"	15.0	11.0	4.5	4.0	21.0	15.5			11.5	8.5	3.5	3.0	8.0	4.5	2.0	1.0	250MM
	12">	21.0	15.5	6.5	5.5	29.5	22.0	9.0	7.5	16.0	12.0	5.0	4.0	8.5	6.5	2.5	2.5	300MM>

CONDITION OF SOIL

-2,000 LBS/SQ. FT. B - SAND & GRAVEL.
C - SAND, GRAVEL, & CEMEDITED CLAY.

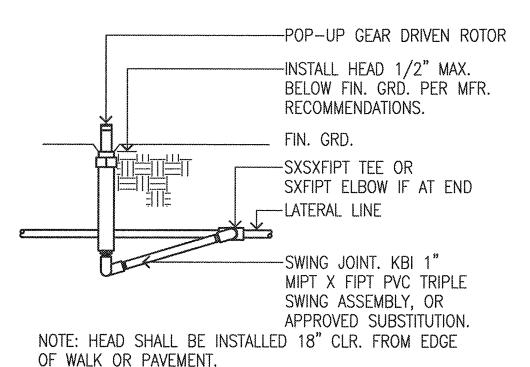
THRUST BLOCK DETAIL IR-8 NOT TO SCALE



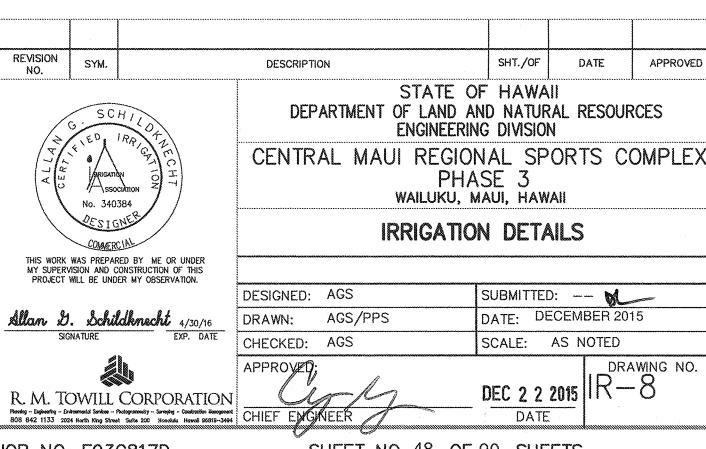
IN GRASS, 2" ABOVE GRADE IN GROUND COVER. 2. PROVIDE REDUCER BUSHINGS AS REQ'D. 3. SEE SPEC'S FOR MINIMUM DEPTH OF COVER OVER PIPING

4. UNION BETWEEN MAV & RCV CAN BE AN INTERGRAL PART OF MAV

REMOTE CONTROL VALVE-A/C IR-8 NOT TO SCALE



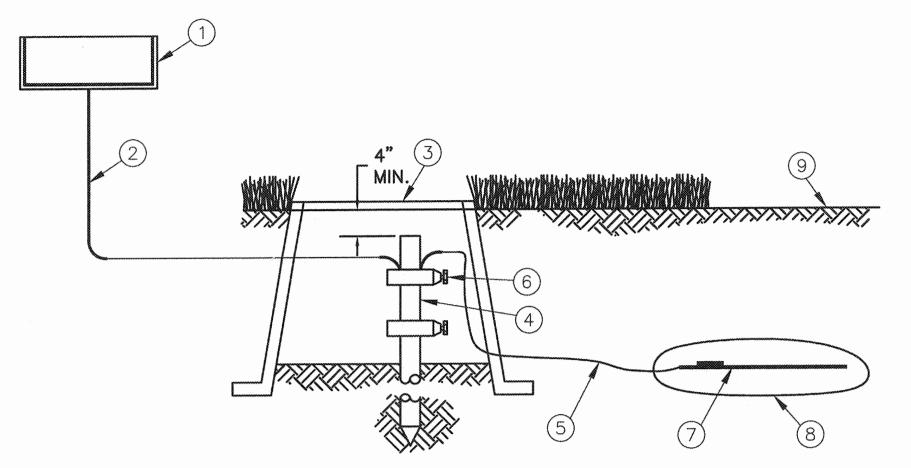
POP-UP GEAR DRIVEN ROTOR IR-8 NOT TO SCALE



JOB NO. F93C817D

SHEET NO. 48 OF 90 SHEETS

— 2" SPIGOT X THREAD ADAPTER

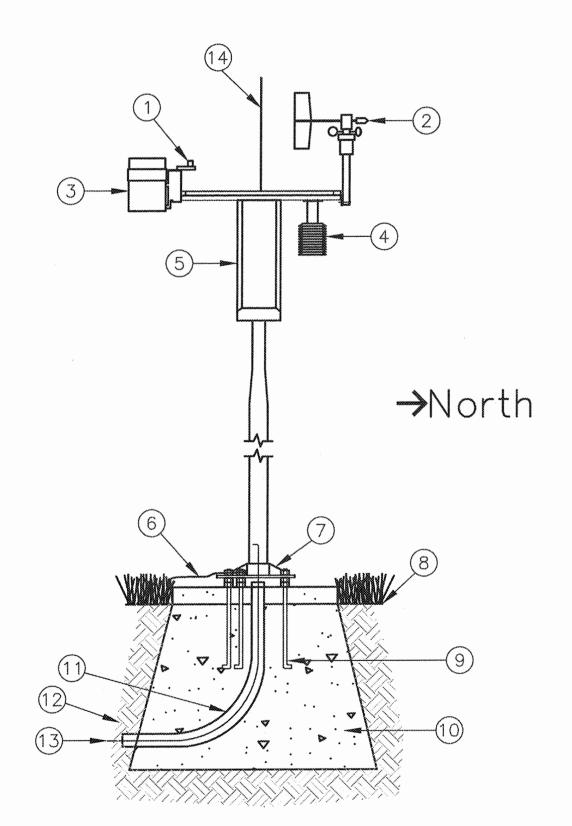


- (1) MAXICOM FIELD SATELLITE, WEATHER STATION OR CCU ASSEMBLY
- SOLID BARE COPPER WIRE (#10 AWG) FROM GROUNDING ROD/PLATE TO SATELLITE, CCU OR WEATHER STATION. MAKE WIRE AS SHORT AS POSSIBLE
- 10" VALVE BOX WITH BLACK ELECTRICAL VALVE BOX COVER
- 4) §" X 10 FT COPPER CLAD GROUNDING ROD INSTALL RODS IN SOIL A MINIMUM OF 15 FT APART.
- BARE COPPER WIRE (#6 AWG MIN.) BETWEEN GROUNDING ROD AND GROUNDING PLATE WITH MIN. 10-OHM RESISTENCE AT EACH ROD.
- 6 COPPER GROUND ROD CLAMP OR WELDS
- 7) COPPER GROUNDING PLATE
- GROUNDING ENHANCEMENT MATERIALS (IS EXPECTED TO BE REQUIRED DUE TO SOIL TYPES FOUND ON SITE). ADD AS NEEDED TO MEET THE 10-OHM RESISTANCE NOTED.
- FINISHED GRADE

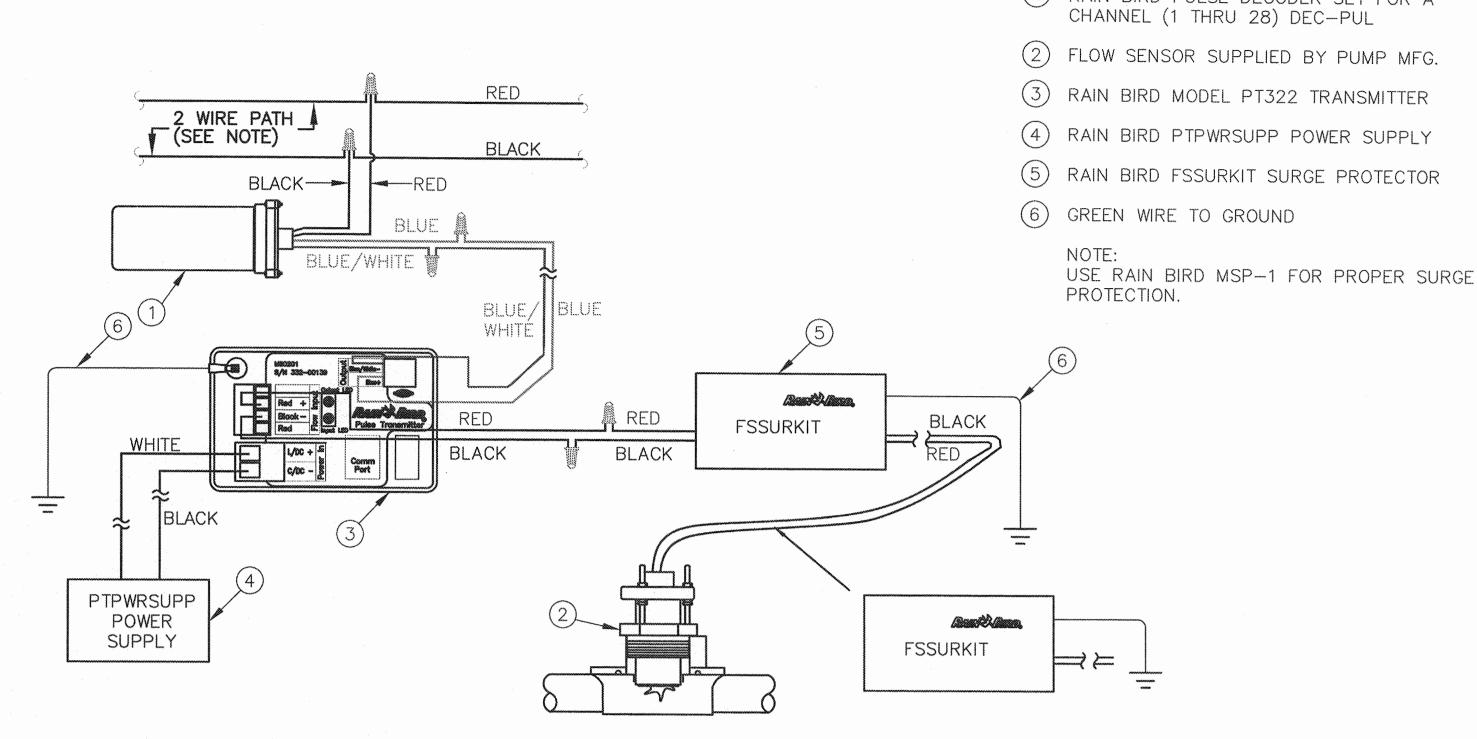
NOTE: REFER TO RAIN BIRD CENTRAL CONTROL TECHNICAL BULLETIN TB-9001MULTI FOR INSTALLATION GUIDELINES. GROUNDING DETAIL APPLIES TO ALL FIELD SATELLITES, THE CLUSTER CONTROL UNIT (CCU) AND THE WEATHER STATION. ALL UNITS SHALL HAVE A PAIGE #250090LED, MGP-1 AND MSP-1 INSTALLED AS PER RAIN BIRD SPECIFICATION. INSTALLATION MUST BE CERTIFIED BY THE RAIN BIRD SERVICE PROVIDER PRIOR TO ACCEPTANCE OF SYSTEM.

SATELLITE GROUNDING DETAIL

IR-9 NOT TO SCALE



- (1) SOLOR RADIATION SENSOR
- 2) ANEMOMETER AND WIND VANE
- (3) TIPPING BUCKET RAIN GAUGE
- 4 RADIATION SHIELD WITH TEMPERATURE AND RELATIVE HUMIDITY PROBE
- (5) ENVIRONMENTAL ENCLOSURE
- GROUND WIRE TO GROUNDING GRID. REFER TO MAXICOM DETAIL 1 SHEET IR-7
- (7) MOUNTING COLLAR
- (8) FINISH GRADE
- (9) 1/2-INCH X 12-INCH ANCHOR BOLT (USE MANUFACTURER'S TEMPLATE FOR PROPER LOCATION)
- (10) FOOTING: 24" X 24" TO 32" X 32" X 24" DEEP
- TWO (2) LONG SWEEP ELBOWS (ONE HIDDEN WITH COMMUNICATION WIRE). ORIENT PROPERLY FOR WIRING (SIZE AS REQUIRED)
- TELEPHONE LINE OR DIRECT CONNECT SHORT HAUL MODEM CABLE ROUTED THROUGH HIDDEN LONG SWEEP ELBOW (PER MANUFACTURER'S SPECIFICATION) BACK TO CCU LOCATION.
- (13) 16VAC POWER SUPPLY
- GROUND PER DETAIL 1, SHEET IR-7 TO ENSURE 10-OHMS RESISTANCE OR LESS.



3 PUMP FLOW SENSOR DETAIL
IR-9 NOT TO SCALE

IF THE FLOW SENSOR IS LOCATED MORE THAN 150 FEET FROM THE FLOW TRANSMITTED, INCLUDE AN ADDITIONAL FSSURKIT AND GROUND ROD AT THE FLOW SENSOR LOCATION.

(1) RAIN BIRD PULSE DECODER SET FOR A

FLOW THROUGH LATERAL SIZE OF LATERAL

0.0 THROUGH 6 GPM 3/4" PIPE

7 GPM THROUGH 12 GPM 1" PIPE

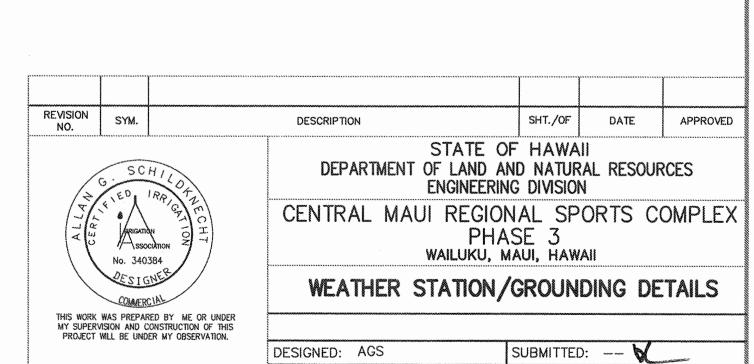
13 GPM THROUGH 22 GPM 11/4" PIPE 23 GPM THROUGH 35 GPM 11/2" PIPE

36 GPM THROUGH 50 GPM 2" PIPE 51 GPM THROUGH 75 GPM 2½" PIPE

PEAK FLOW SHALL NOT EXCEED 75 GPM ALL SMALL ROTOR CIRCUITS SHALL BE 1" MINIMUM ALL ATHLETIC FIELD ROTOR CIRCUITS SHALL BE 1-1/2" MINIMUM

4 LATERAL PIPE SIZING CHART

IR-9 TO BE USED FOR LATERAL PIPING NOT OTHERWISE SIZED ONLY



DRAWN: AGS/PPS

CHECKED: AGS

2 ON-SITE WEATHER STATION DETAIL
IR-9 NOT TO SCALE

JOB NO. F93C817D

Allan D. Schildknecht 4/30/16

R. M. TOWILL CORPORATION

Planeting - Enghandrag - Enghandrag - Enghandrag - Sundaya - Planeting - Conditional Society - Chilef ENGINEER

808 842 1133 2024 Horth King Street Sulta 200 Hosolulu Housel 96519-3494 CHIEF ENGINEER

SHEET NO. 49 OF 90 SHEETS

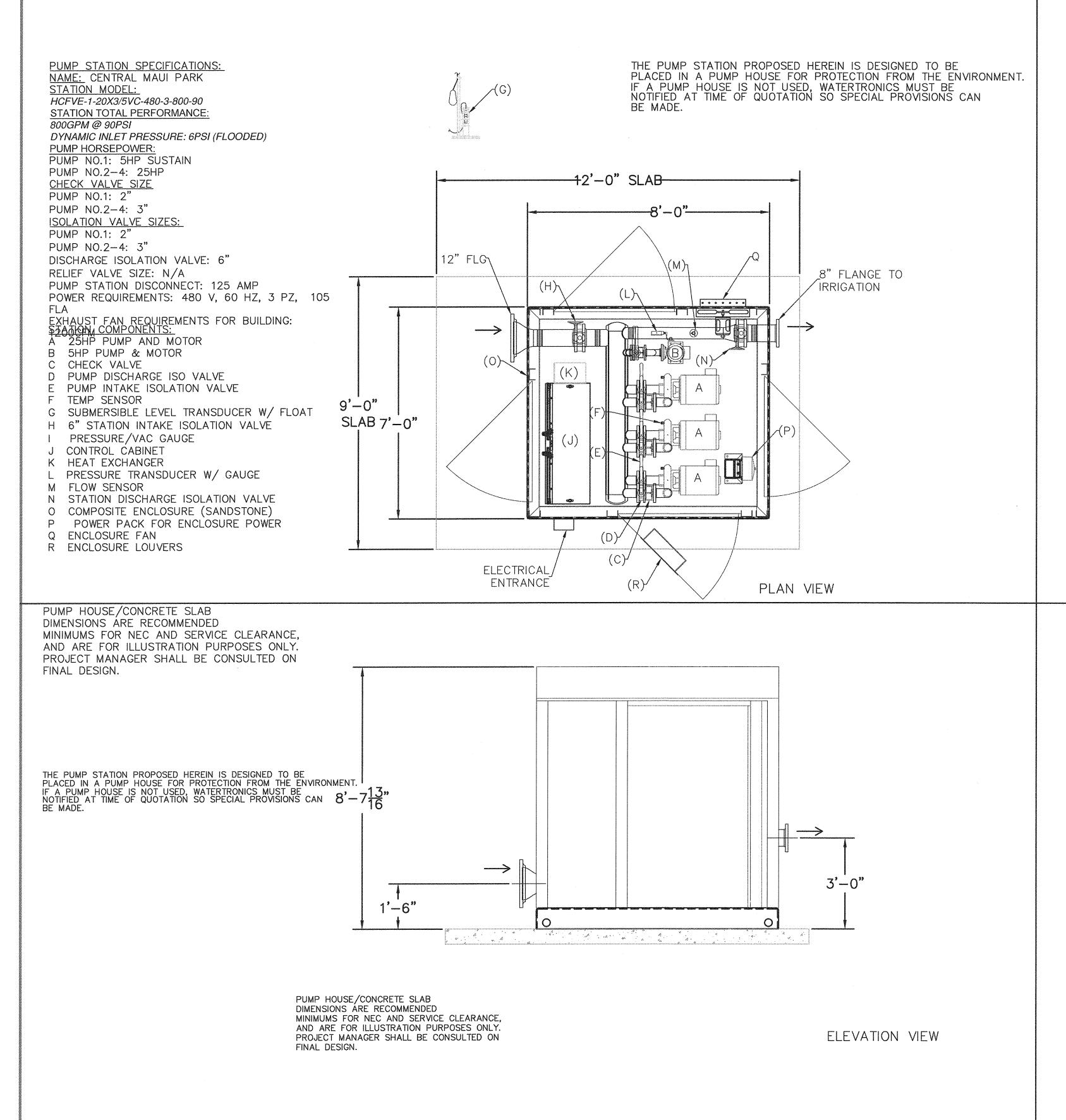
DATE: DECEMBER 2015

DEC 2 2 2015 | R-9

DRAWING NO.

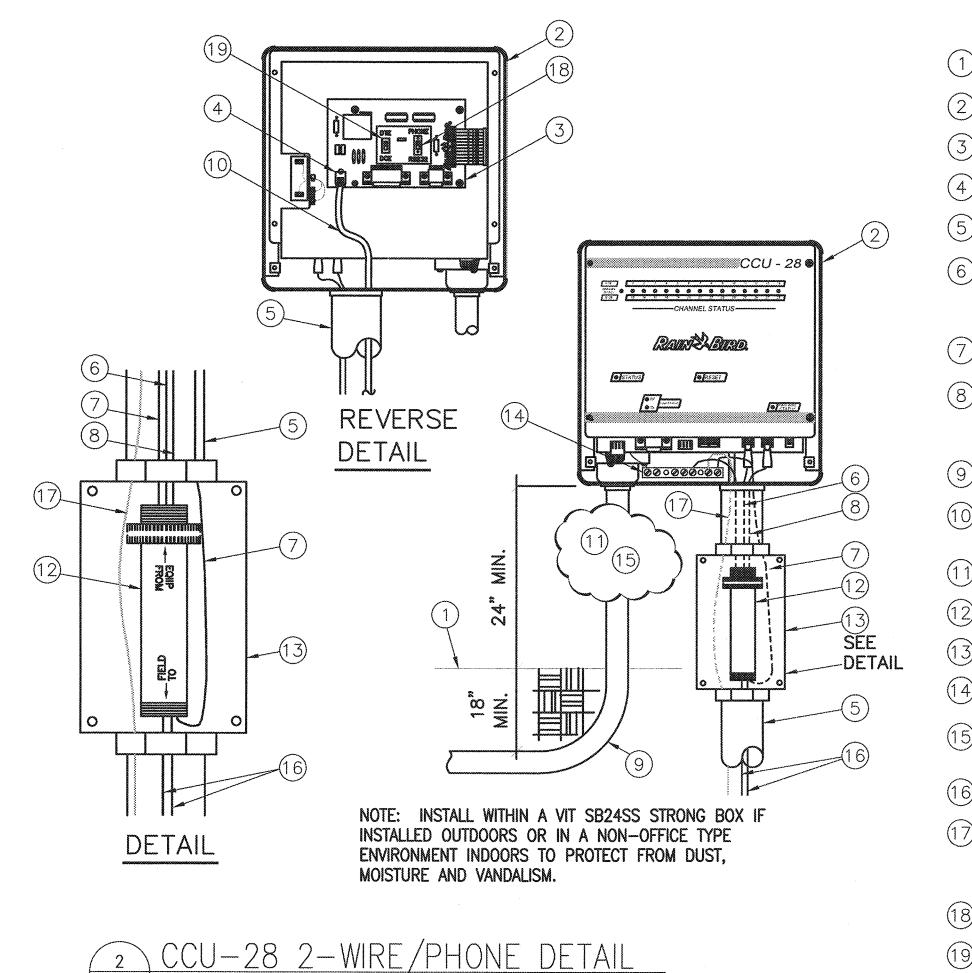
SCALE: AS NOTED

DATE



PUMP STATION DETAIL

NOT TO SCALE



(1) FINISH GRADE

(2) RAIN BIRD WALL MOUNT CLUSTER CONTROL UNIT (CCU)

(3) MODEM BOARD

(4) RJ 11 PHONE JACK

(5) CONDUIT (SIZE AS REQUIRED)

6 COMMON WIRE (BLACK) FROM MAXICABLE TO MSP-1 SURGE ARRESTOR AND FROM MSP-1 SURGE ARRESTOR TO CCU COMMON WIRE TERMINAL POST

(7) GROUND WIRE (GREEN) TO GROUNDING BUSS BAR

8 HOT WIRE (RED) FROM MAXICABLE TO MSP-1 SURGE ARRESTOR AND FROM MSP-1 SURGE ARRESTOR TO CCU HOT WIRE TERMINAL POST

(9) 120 VOLT 60 CYCLE POWER SUPPLY

10 TELEPHONE COMMUNICATION CABLE TO RJ-11 JACK IN PVC CONDUIT

(11) REFER TO LOCAL ELECTRIC CODE FOR CONNECTIONS

(12) RAIN BIRD MSP-1 RECOMMENDED SURGE ARRESTOR

13 JUNCTION BOX - SIZE AS REQUIRED

(14) CCU GROUNDING BUSS BAR

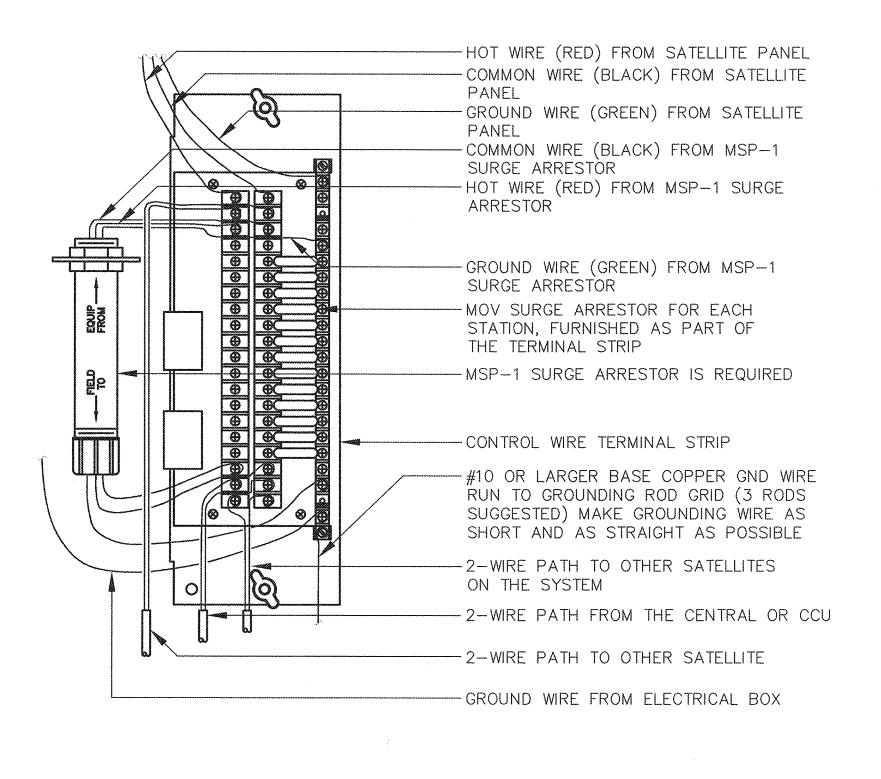
(15) RAIN BIRD WARRANTY REQUIRES PROPER SURGE PROTECTION. USE INTERMATIC AG2401 OR TRIPPLITE ISOBAR

16) MAXI TWO-WIRE PATH TO FIELD CONTROLLERS

#10 COPPER GROUND WIRE FROM CCU GROUNDING BUSS BAR TO GROUNDING GRID (SEE GROUNDING GRID MAXICOM DETAIL 305)

(18) SET SWITCH TO PHONE

(19) SET SWITCH TO DTE



(IR-10) NOT TO SCALE

4 24V ATELLIE SURGE PROTECTION DETAIL IR-10 NOT TO SCALE

NOTE: ALL FIELD SATELLITE CONTROLLERS, CLUSTER CONTROL UNITS, WEATHER STATIONS AND ANY OTHER 120V POWER UNIT SHALL BE PROTECTED WITH A PAIGE 25090LED LIGHTNING/SURGE PROTECTION UNIT AND.OR AS DIRECTED BY THE MANUFACTURERS RECOMMENDATIONS AT TIME OF INSTALLATION.

