



LEGEND		
	EXISTING AND/OR TREES OVER 6" CALIPER TO REMAIN. PROTECT FROM DAMAGE.	
	EXPANSION JOINTS	
	PLANTING AREA	
	STANDARD CONCRETE PAVING MEDIUM BROOM FINISH. SAW CUT JOINTS. SEALANT CLEAR. SEE SPECIFICATIONS. CONTRACTOR TO COORDINATE LOCATION OF ALL JOINTS WITH OWNER'S REPRESENTATIVE.	
	SAME AS TYPE A PAVING	
	NATURAL STONE SEAT WALLS EW GOLD LIMESTONE BLOCKS. 1. 18" WIDE X 18" HIGH X LENGTH VARIES. SEE DETAILS A.H/L2.01 2. 18" WIDE X 18" HIGH X LENGTH VARIES. SEE DETAILS B.C/L2.02 3. 30" WIDE X 18" HIGH X 42" LENGTH. SEE DETAILS K/L2.01	
	SAME AS TYPE A PAVING	
	VENEER ..ALL EARTHWORKS EW GOLD TUMBLED LIMESTONE VENEER, ASHLAR PATTERN, SIZES TO BE 50% - 5", 40% - 7.75", 10% - 2.25", $\frac{3}{8}$ " GROUTED JOINTS WI $\frac{1}{2}$ " RAKED FOR A DRY STACKED APPEARANCE. CAPSTONES TO BE 3" H, 19" W, 24" L. 1. SEE DETAIL B & F/L2.04 2. SEE DETAIL C & F/L2.04 3. SEE DETAIL E & F/L2.04	
	PENH PAV STANDARD CONCRETE PAVING MEDIUM BROOM FINISH. SAW CUT JOINTS. SEALANT CLEAR. SEE SPECIFICATIONS. CONTRACTOR TO COORDINATE LOCATION OF ALL JOINTS WITH OWNER'S REPRESENTATIVE. SEE CIVIL DRAWINGS FOR DETAILS AND LAYOUT.	
	WATER FEATURE SEE ARCHITECTURE DRAWINGS	
	BRICK PAVER CIRCLE WITH LOGO INSERT PAVERS TO BE BELGARD DUBLIN COBBLE CIRCLE PATTERN, COLOR SELECTED BY ARCHITECT / LA FROM MANUFACTURED FULL RANGE. STONE CENTER INSERT, IMAGE OF ENGRAVING OWNER PROVIDED. INSERT FURNISHED AND INSTALLED BY CONTRACTOR carved logo deleted	
NOTES: 1. CONTRACTOR TO PROVIDE SAMPLES AND MOCK-UPS OF ALL MATERIALS FOR OWNER'S REPRESENTATIVE APPROVAL.. ALL COLORS TO BE REVIEWED AND APPROVED. THIS SHOULD INCLUDE SAMPLES OF: - ALL JOINTS, SEALANTS, COLORS, AND FINISHES - STAMPED, COLORED, CONCRETE PAVING - STORM DRAIN UTILITIES - MASONRY AND STONE MATERIALS AND FINISHES - PLANT MATERIAL - MULCH - BOULDERS, BOLLARDS, & LIGHT POLES 2. CONTRACTOR TO PROVIDE 4'x4' MOCK UP OF ALL MATERIALS AND PATTERNS FOR OWNER'S REPRESENTATIVE APPROVAL. 3. SEE CIVIL DRAWINGS FOR LAYOUT, TOP AND BOTTOM OF WALL ELEVATIONS, SPOT GRADES, AND SITE GRADING. 4. SEE STRUCTURAL DRAWINGS FOR ALL FOOTINGS, REINFORCING, AND STRUCTURAL CONCRETE INFORMATION. 5. CONTRACTOR TO CONFIRM AND PROVIDE DOCUMENTATION THAT PAVING MATERIALS/COLORS COMPLY WITH LEED REQUIREMENTS FOR MINIMUM SRI VALUES.		
Revisions No Name Date Landscape Architect SWT DESIGN 7722 Big Bend Boulevard St. Louis, MO 63119 Phone: 314.644.5700 Fax: 314.644.6378		
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PHASE: CONSTRUCTION DOCUMENTS		
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DRAWING NAME: Layout Plan		
ISSUED FOR CONSTRUCTION		
JOB #: 11-089 FILE: 11-089-Working 2012 CENTERBROOK ARCHITECTS AND PLANNERS		
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SHEET: L1.02		




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1 2 3 4 5 6 7 8 9 10 11 12

A SECTION 'A' - NATURAL STONE BRIDGE / SLAB DETAIL
N.T.S.

B BOULDER WALLS
N.T.S. (VP SCALE = 1:2)

C BOULDER PLACEMENT DETAIL
N.T.S.

D NATURAL STONE BRIDGE / SLAB DETAIL
N.T.S.

E STONE BRIDGE CONCEPT IMAGES
SCALE: NTS

F ZONE 4 DRYSTREAM, CHECK DAM, AND CASCADE CONCEPT IMAGES
SCALE: NTS

G SECTION AT OUTDOOR CLASSROOM STAIRS
SCALE: NTS

NOTE:
MPR = MATERIAL'S MODIFIED PROCTOR (ASTM D 1557 - MAX. DRY DENSITY)

H NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IN EVENTS OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO CONTRACT DOCUMENTS SHALL BE IMMEDIATELY DIRECTED TO THE LANDSCAPE ARCHITECT.

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DRAWING NAME:
Hardscape Details

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DRAWN BY: FD/ZS **DATE:** August 28, 2012
CHECKED BY: HB **SCALE:** SEE PLAN

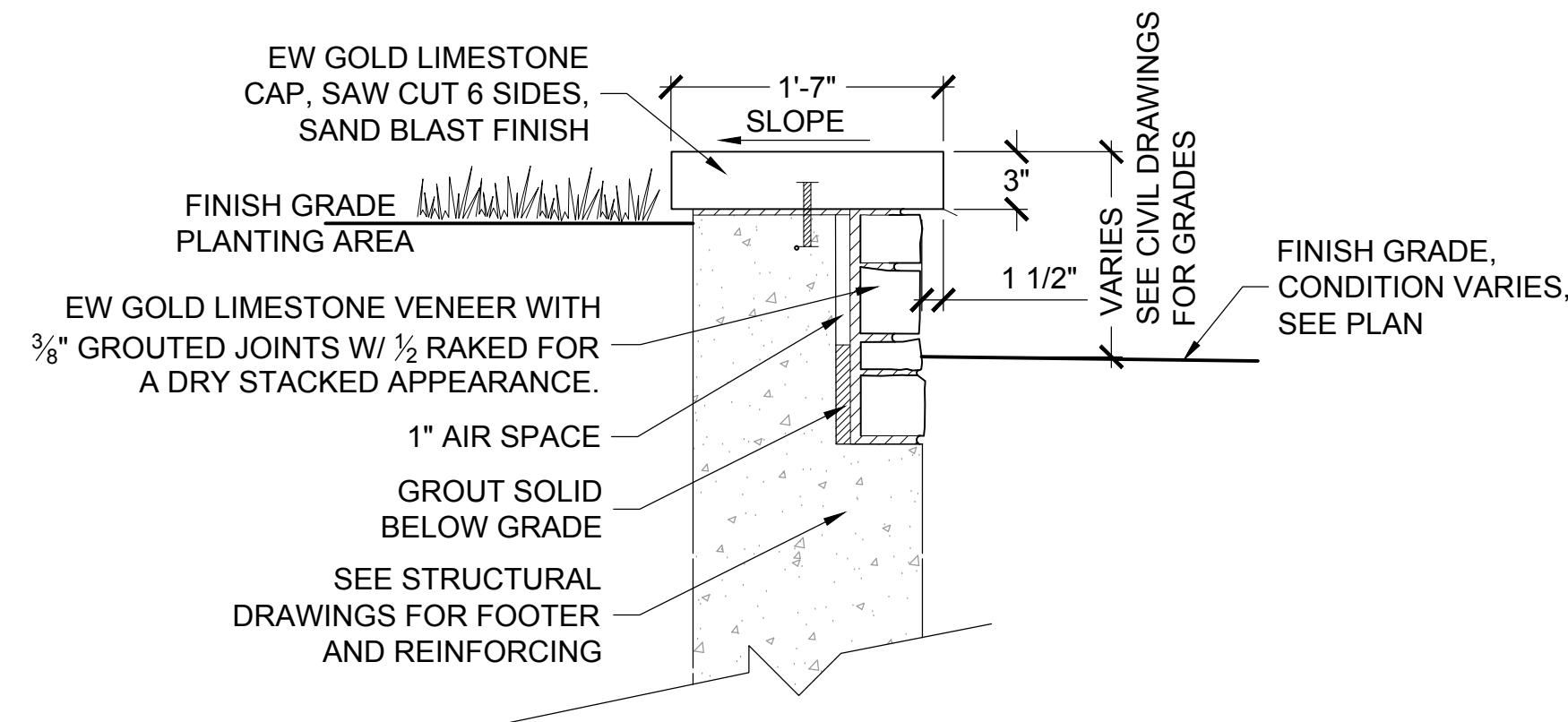
SHEET: L2.03

NOTE:
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1 2 3 4 5 6 7 8 9 10 11 12

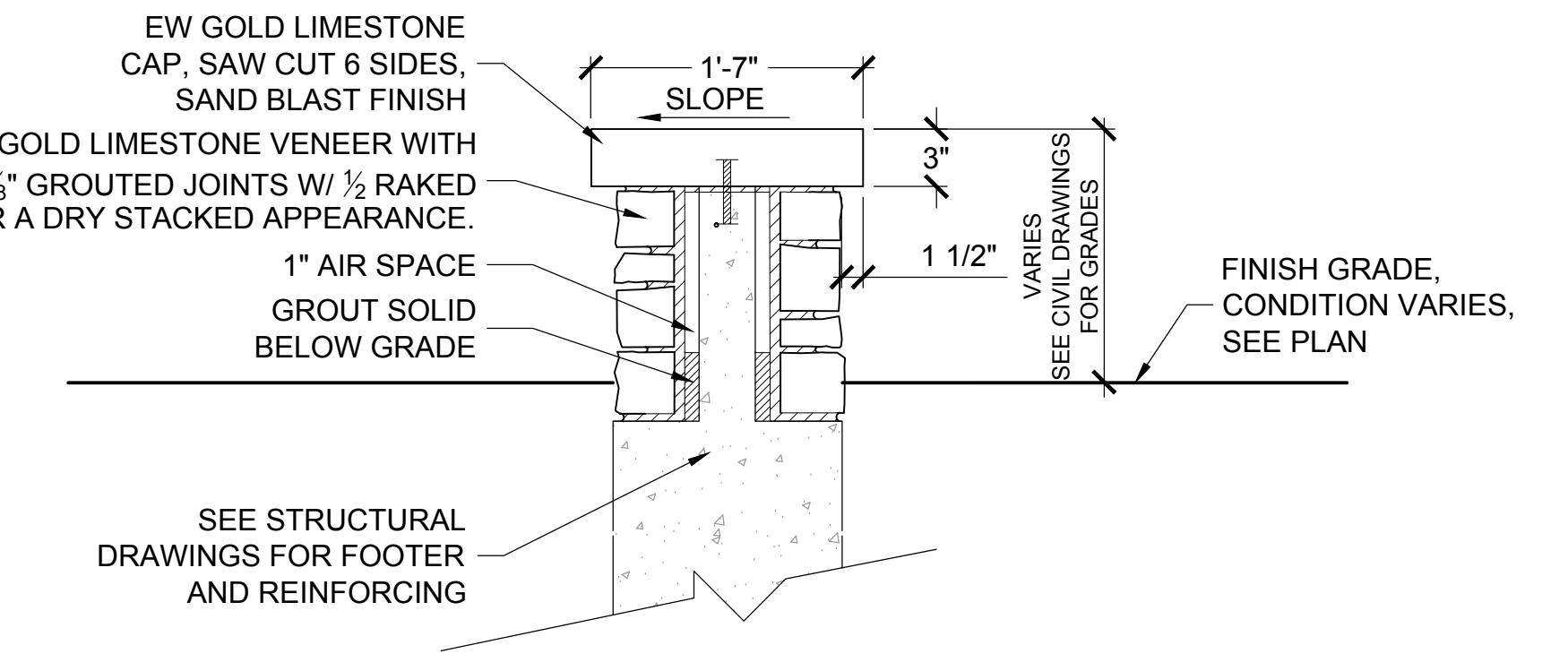


A BOARDWALK RAILING DESIGN INTENT IMAGE
SCALE: NTS



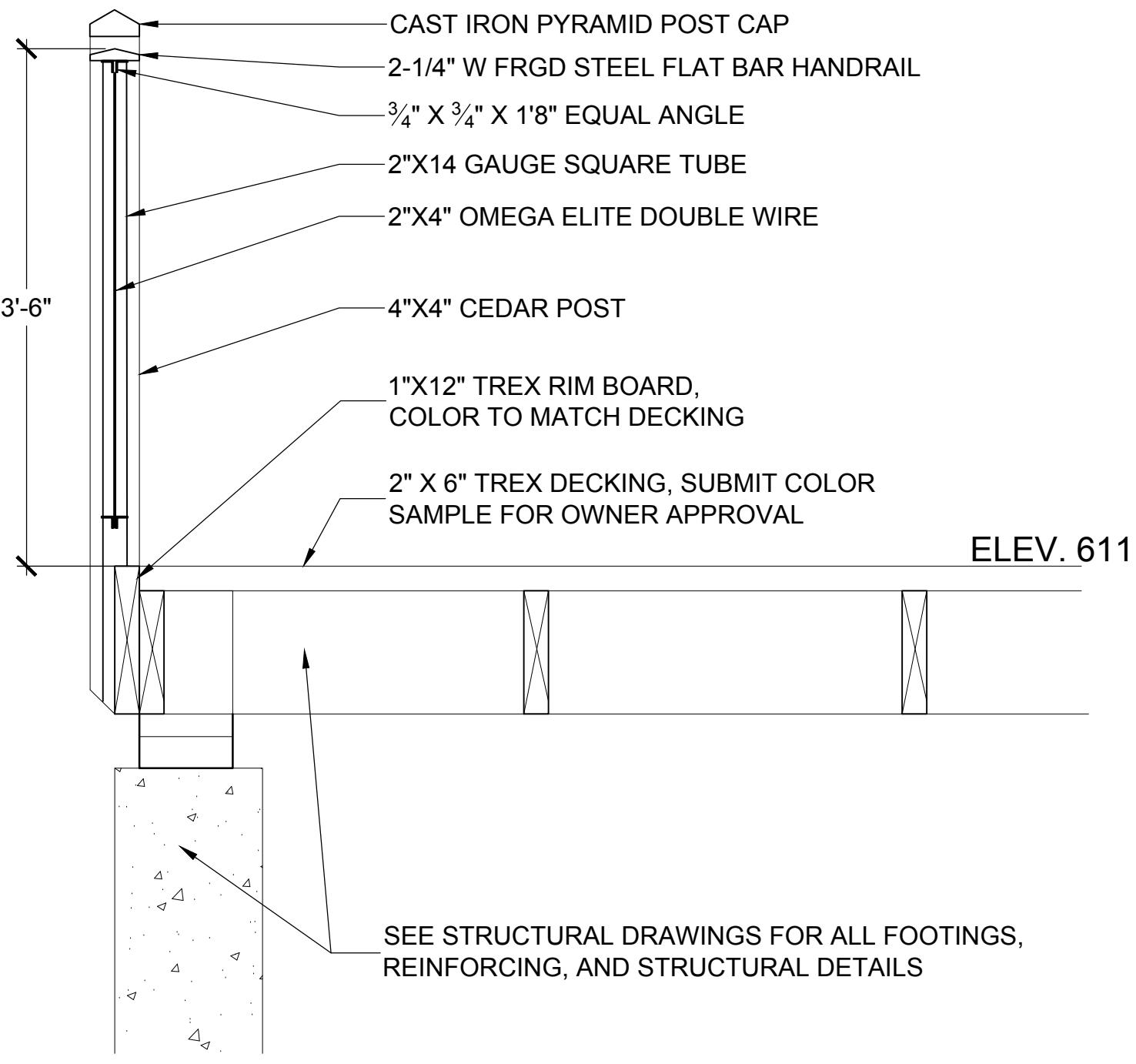
B STONE VENEER SEATWALL - SECTION
SCALE: NTS

EW GOLD LIMESTONE CAP, SAW CUT 6 SIDES, SAND BLAST FINISH
FINISH GRADE PLANTING AREA
1'-7" SLOPE
3"
1 1/2"
VARIABLES SEE CIVIL DRAWINGS FOR GRADES
EW GOLD LIMESTONE VENEER WITH 3/8" GROUTED JOINTS W/ 1/2 RAKED FOR A DRY STACKED APPEARANCE.
1" AIR SPACE
GROUT SOLID BELOW GRADE
SEE STRUCTURAL DRAWINGS FOR FOOTER AND REINFORCING



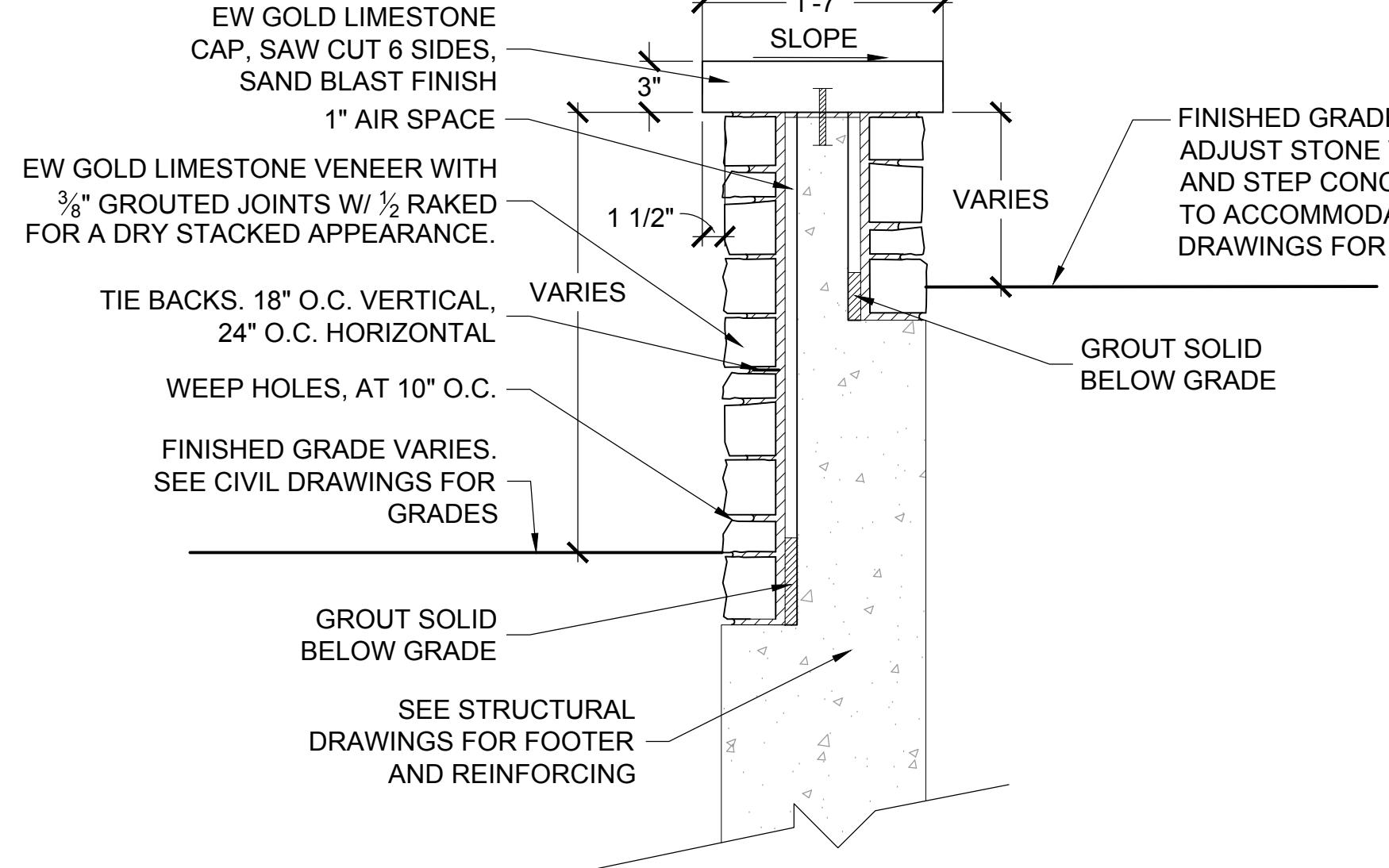
C STONE VENEER SEATWALL - SECTION
SCALE: NTS

EW GOLD LIMESTONE CAP, SAW CUT 6 SIDES, SAND BLAST FINISH
EW GOLD LIMESTONE VENEER WITH 3/8" GROUTED JOINTS W/ 1/2 RAKED FOR A DRY STACKED APPEARANCE.
1" AIR SPACE
GROUT SOLID BELOW GRADE
SEE STRUCTURAL DRAWINGS FOR FOOTER AND REINFORCING
1'-7" SLOPE
3"
1 1/2"
VARIABLES SEE CIVIL DRAWINGS FOR GRADES
FINISH GRADE, CONDITION VARIES, SEE PLAN



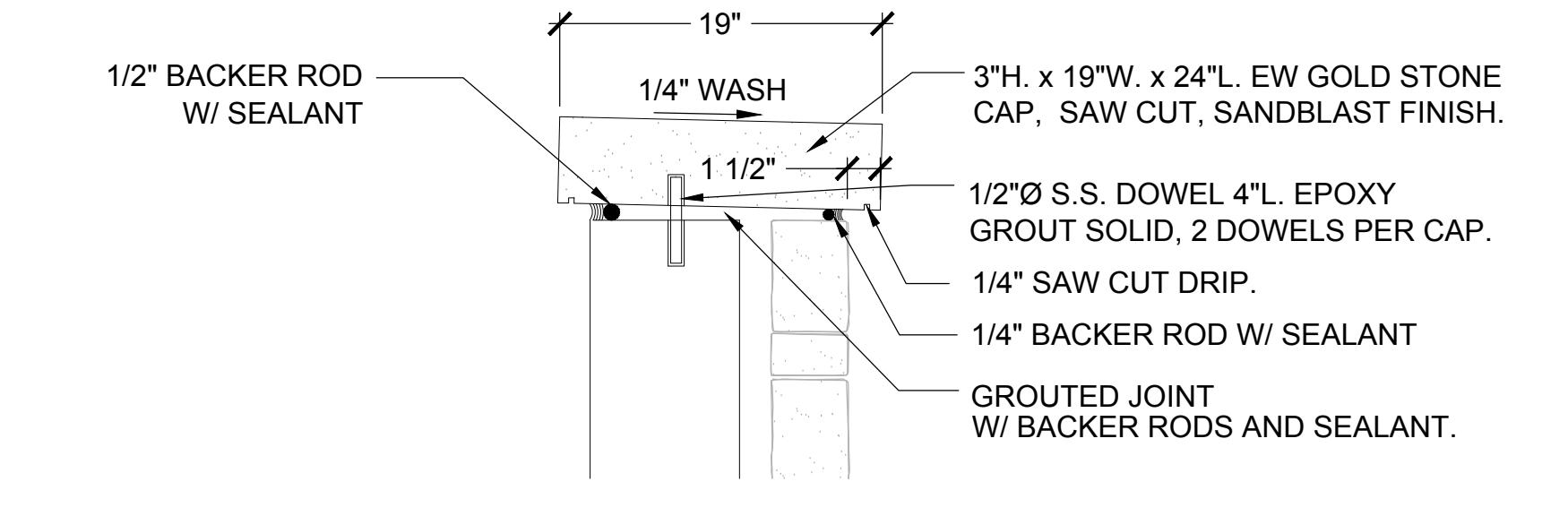
D BOARDWALK RAILING DETAIL
SCALE: NTS

ELEV. 611.25
CAST IRON PYRAMID POST CAP
2-1/4" W FRGD STEEL FLAT BAR HANDRAIL
3/4" X 3/4" X 18" EQUAL ANGLE
2"X14 GAUGE SQUARE TUBE
2"X4" OMEGA ELITE DOUBLE WIRE
4"X4" CEDAR POST
1"X12" TREX RIM BOARD, COLOR TO MATCH DECKING
2" X 6" TREX DECKING, SUBMIT COLOR SAMPLE FOR OWNER APPROVAL
SEE STRUCTURAL DRAWINGS FOR ALL FOOTINGS, REINFORCING, AND STRUCTURAL DETAILS



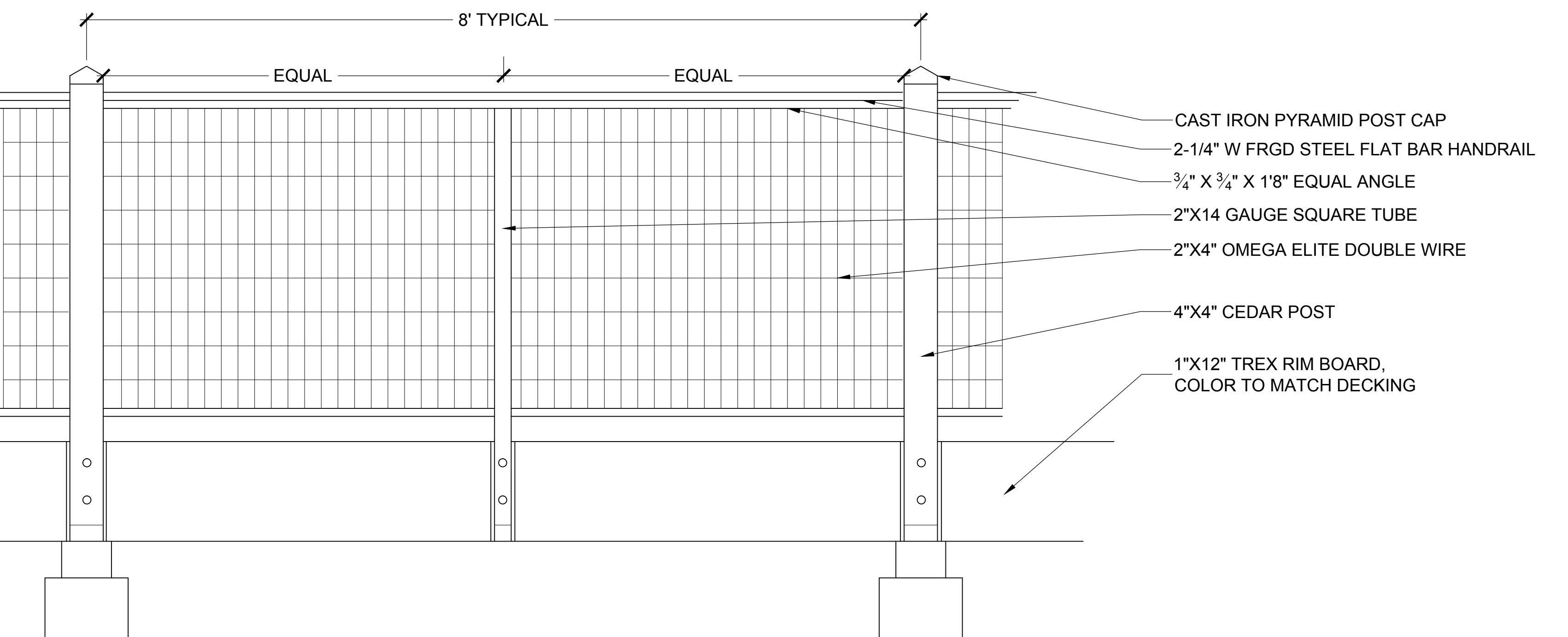
E STONE VENEER SEATWALL - SECTION
SCALE: NTS

EW GOLD LIMESTONE CAP, SAW CUT 6 SIDES, SAND BLAST FINISH
1"-7" SLOPE
3"
1 1/2"
VARIABLES SEE CIVIL DRAWINGS FOR GRADES
EW GOLD LIMESTONE VENEER WITH 3/8" GROUTED JOINTS W/ 1/2 RAKED FOR A DRY STACKED APPEARANCE.
TIE BACKS, 18" O.C. VERTICAL, 24" O.C. HORIZONTAL
WEEP HOLES, AT 10" O.C.
FINISHED GRADE VARIES, SEE CIVIL DRAWINGS FOR GRADES
GROUT SOLID BELOW GRADE
SEE STRUCTURAL DRAWINGS FOR FOOTER AND REINFORCING
1"-7" SLOPE
3"
1 1/2"
VARIABLES FINISHED GRADE VARIES, ADJUST STONE VENEER HEIGHT AND STEP CONCRETE LEDGE TO ACCOMMODATE, SEE CIVIL DRAWINGS FOR GRADES
GROUT SOLID BELOW GRADE



F CAPSTONE DETAIL
SCALE: NTS

1/2" BACKER ROD W/ SEALANT
1/4" WASH
3"H. x 19"W. x 24)L. EW GOLD STONE CAP, SAW CUT, SANDBLAST FINISH.
1/2"Ø S.S. DOWEL 4'L. EPOXY GROUT SOLID, 2 DOWELS PER CAP.
1/4" SAW CUT DRIP.
1/4" BACKER ROD W/ SEALANT
GROUTED JOINT W/ BACKER RODS AND SEALANT.



G BOARDWALK RAILING/GUARDRAIL ELEVATION
SCALE: NTS

8' TYPICAL
EQUAL EQUAL
CAST IRON PYRAMID POST CAP
2-1/4" W FRGD STEEL FLAT BAR HANDRAIL
3/4" X 3/4" X 18" EQUAL ANGLE
2"X14 GAUGE SQUARE TUBE
2"X4" OMEGA ELITE DOUBLE WIRE
4"X4" CEDAR POST
1"X12" TREX RIM BOARD, COLOR TO MATCH DECKING

NOTE:

1. CONTRACTOR TO SUBMIT DETAILED HAND RAIL SHOP DRAWINGS FOR OWNER'S REPRESENTATIVE APPROVAL.
2. ALL RAILING STEEL TO BE GALVANIZED TO PREVENT RUST. TREAT ALL WELDED JOINTS AFTER FABRICATION.
3. ALL RAILING STEEL TO BE COLOR BLACK.

STONE VENEER SEATWALL NOTE:

1. CONTRACTOR TO SUBMIT DETAILED WALL VENEER SHOP DRAWINGS FOR OWNER'S REPRESENTATIVE APPROVAL.

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Revisions
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
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
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
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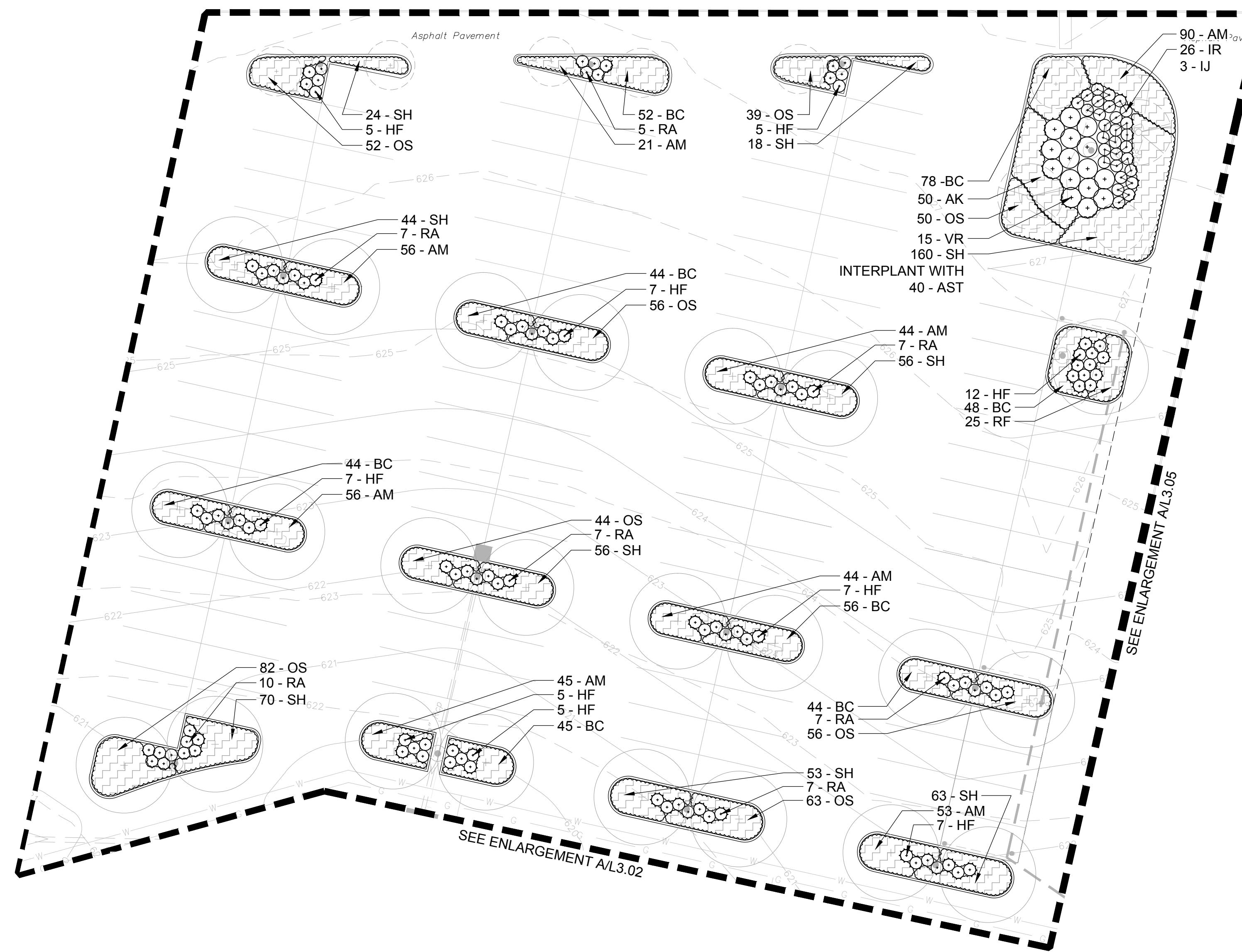
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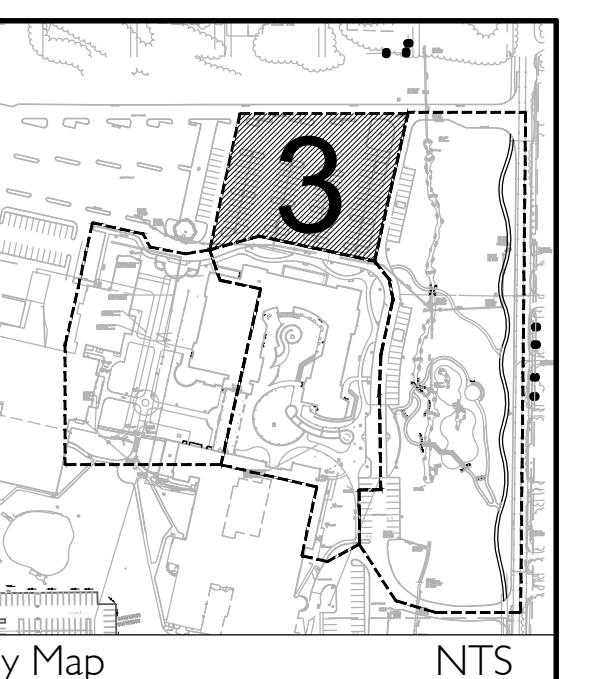
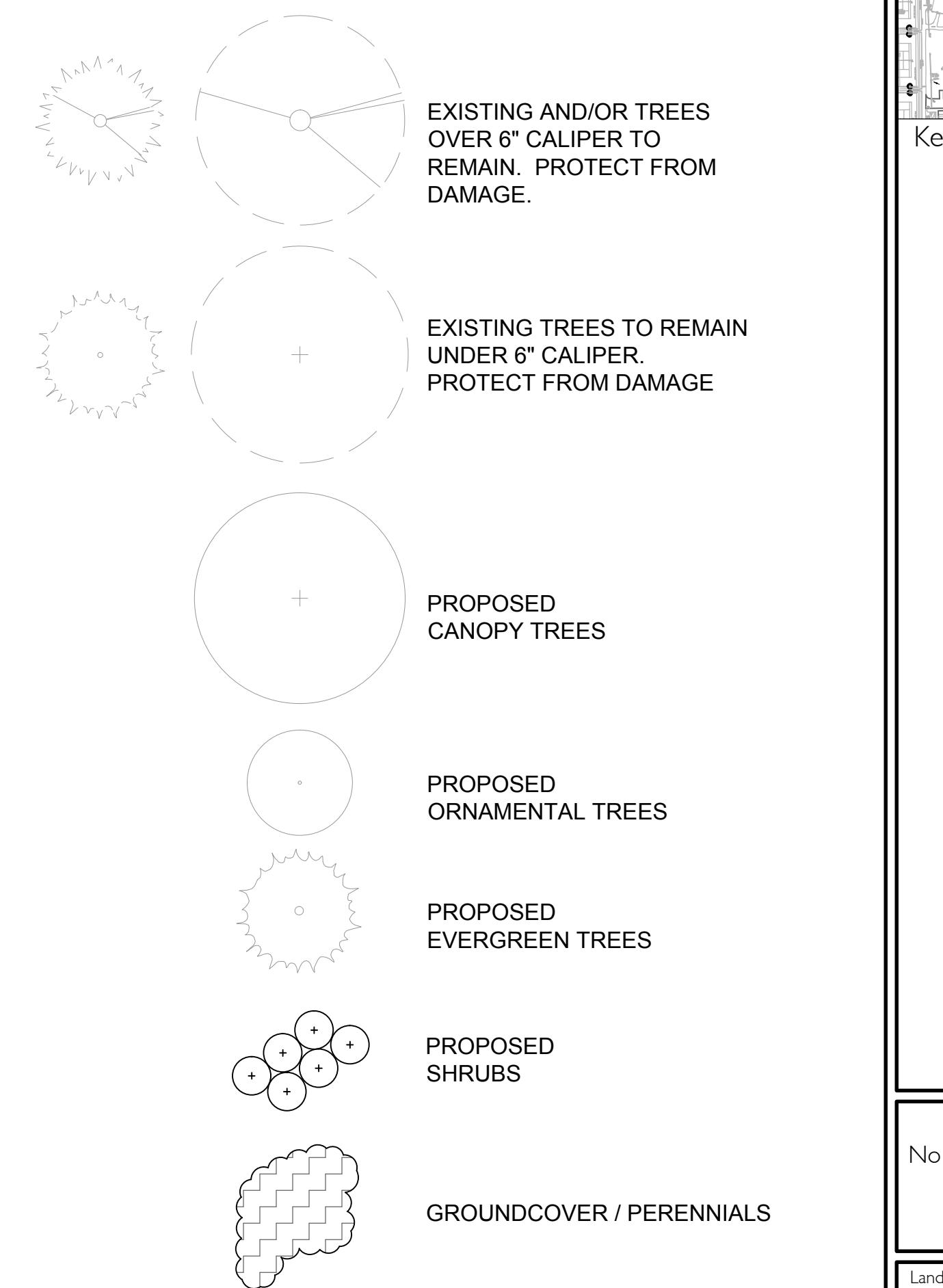
A UNDERSTORY PLANTING ENLARGEMENT ZONE 3
SCALE: 1" = 20'

Graphic Scale: 1" = 20'
0' 10' 20' 40' 60'

MICDS UNDER STORY PLANTING SCHEDULE - ZONE 3					
KEY	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING
SHRUBS					
HF	60	Hypericum frondosum 'Sunburst'	St. John's Wort	#5	3' O.C.
IJ	3	Ilex verticillata 'Jim Dandy'	Winterberry	#5	3' O.C.
IR	26	Ilex verticillata 'Red Sprite'	Winterberry	#5	3' O.C.
RA	50	Rhus aromatica 'Gro-low'	Sumac	#5	3' O.C.
VR	15	Viburnum rhytidophyllum	Leatherleaf Viburnum	#5	5' O.C.
PERENNIALS AND GRASSES					
AM	409	Achillea 'Moonshine'	Yarrow	#1	18" O.C.
AK	50	Aster dumosus 'Professor Kippenburg'	Professor Kippenburg Aster	#1	24" O.C.
AST	40	Asclepias tuberosa	Butterfly Weed	#1	As Shown
BC	411	Bouteloua curtipendula	Side-Oats Grama	#1	18" O.C.
OS	442	Oenothera speciosa	White Evening Primrose	#1	18" O.C.
RF	25	Rudbeckia fulgida var. fulgida	Rudbeckia	#1	24" O.C.
SH	544	Sporobolus heterolepis	Prairie Dropseed	#1	18" O.C.

SEE PLANTING NOTES AND DETAILS ON SHEET L4.01

LEGEND



NTS

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DRAWING NAME:
Understory Planting Plan


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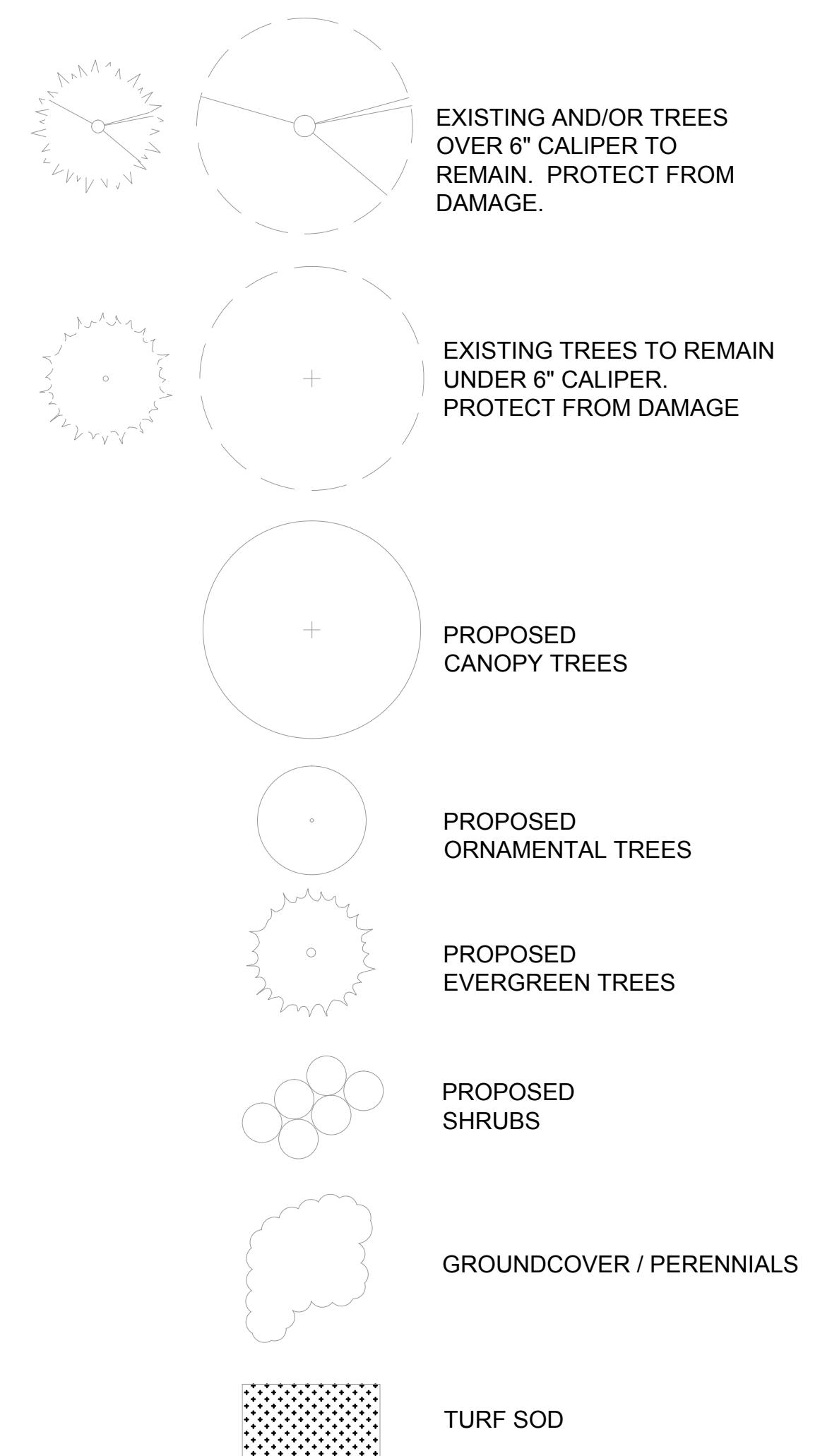
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SHEET:
L3.04

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LEGEND



MICDS SOD SCHEDULE


KEY	QTY.	SCIENTIFIC NAME	COMMENTS
TURF GRASS			
SOD	-	Fescue Blend	3-5 improved varieties of turf type fescue with bluegrass. Submit mix and source for review.
NATIVE SEED MIX			
		GRASSES	
		Bouteloua curtipendula	Side-Oats Grama
		Schizachyrium scoparium	Little Blue Stem
		Sporobolus heterolepis	Prairie Dropseed
		FORBS	
		Allium cernuum	Nodding Onion
		Asclepias tuberosa	Butterfly Weed
		Aster oblongifolium	Aromatic Aster
		Coreopsis lanceolata	Lanceleaf Coreopsis
		Dalea Purpurea	Purple Prairie Clover
		Echinacea pallida	Pale Purple Coneflower
		Liatris aspera	Rough Blazing Star
		Monarda punctata	Dotted Bee Balm
		Rudbeckia hirta	Black-eyed Susan
		Solidago nemoralis	Gray Goldenrod
		Tradescantia ohensis	Ohio Spiderwort


NOTE:
1. INSTALL NATIVE SEED MIX PER SPECIFICATIONS. SEED MIX PER SPECIFICATION.
SEE PLANTING NOTES AND DETAILS ON SHEET L4.01

A TREE PLANTING PLAN
SCALE: 1" = 40'



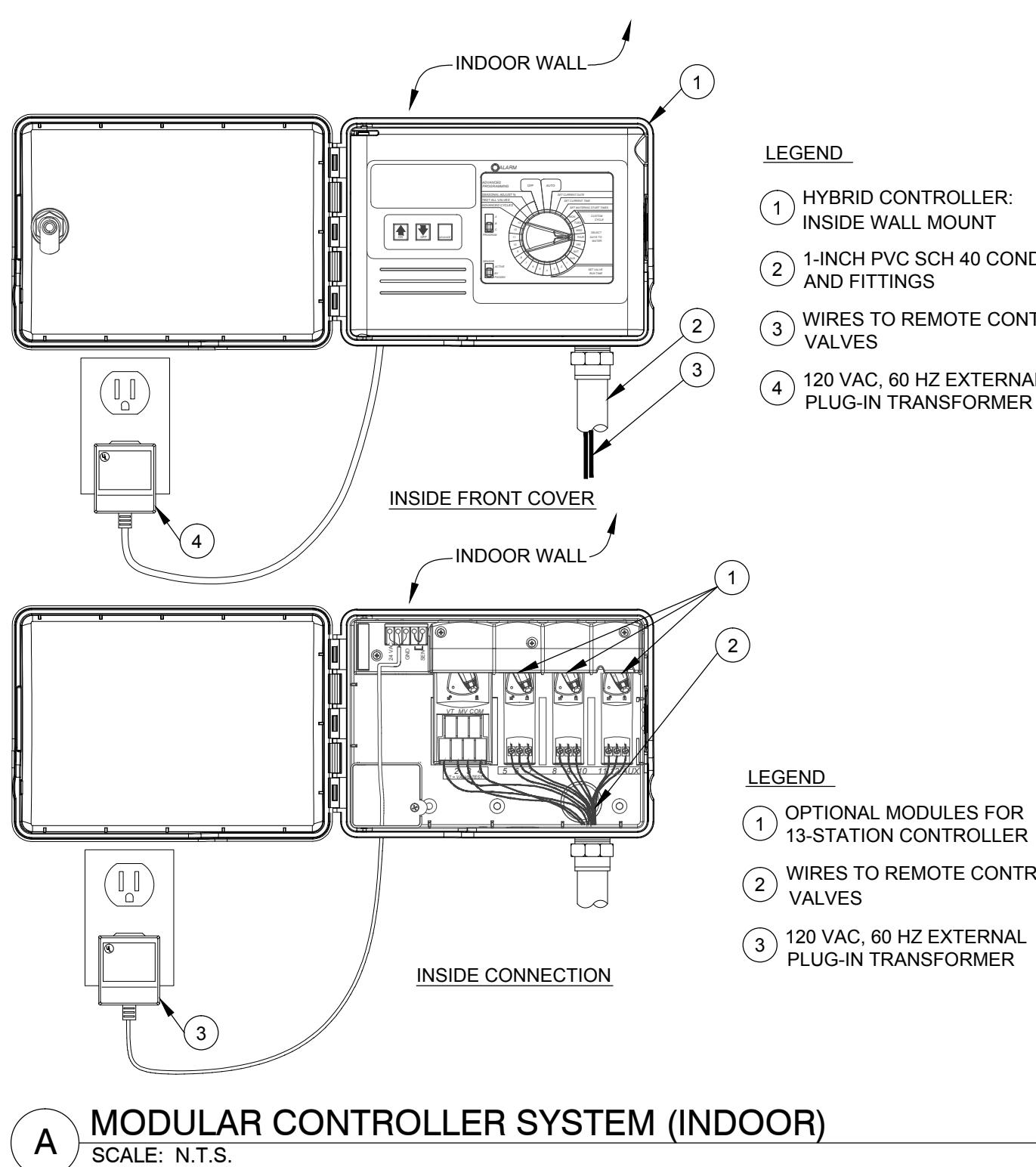
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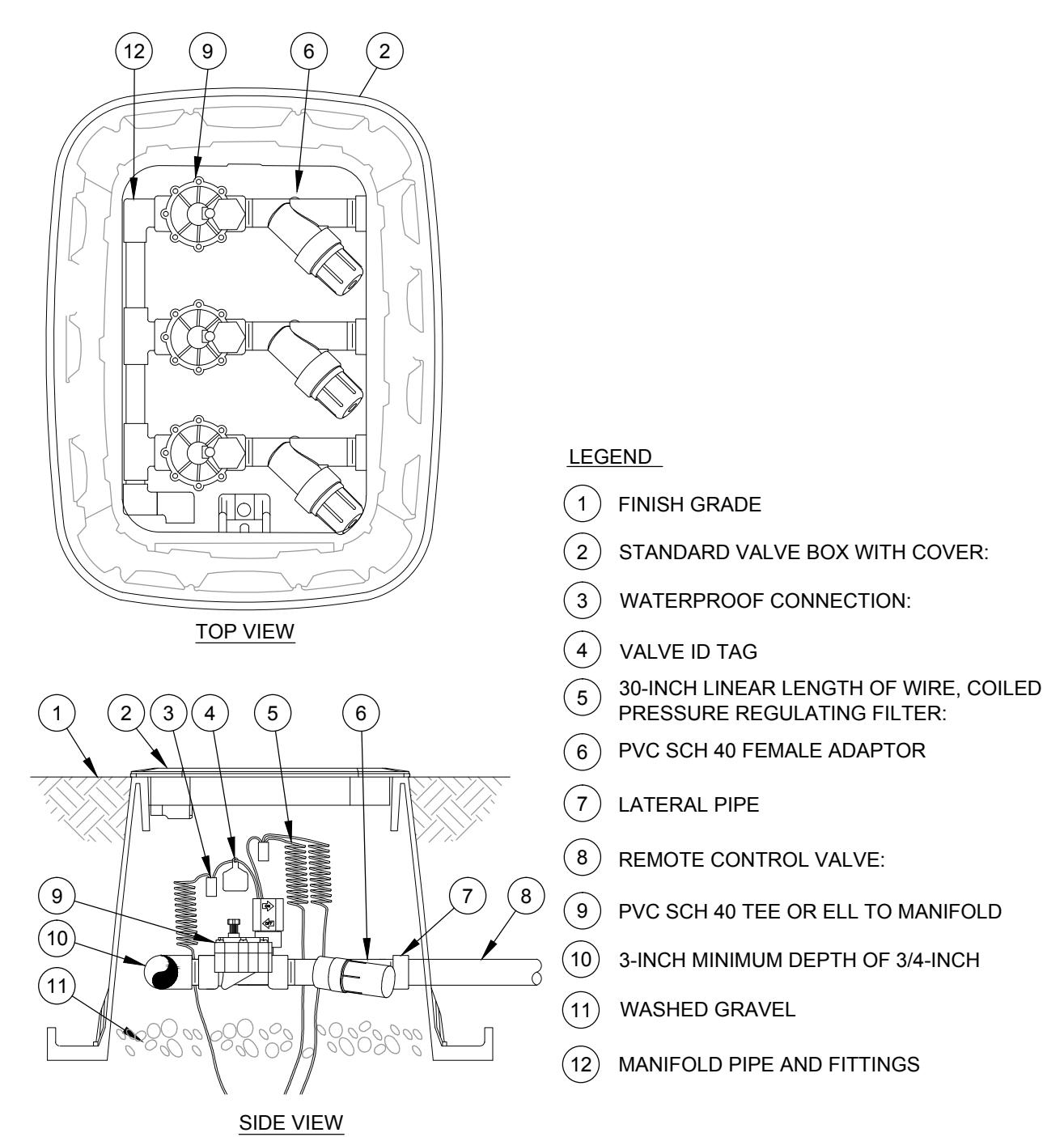
IRRIGATION NOTES:

- SEE IRRIGATION SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, ETC., AND COORDINATE WITH THE LANDSCAPE ARCHITECT AND THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS FOR THE LOCATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADWAYS, ETC.
- REFER TO THE GENERAL CONTRACTOR FOR ALL GENERAL CONDITIONS AND PROCEDURES FOR CONSTRUCTION.
- IRRIGATION CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE AND FEDERAL CODES AND REQUIRED INSPECTIONS.
- THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF IRRIGATION DESIGN WITH LANDSCAPE AND PAVING PLANS. INSTALLATION OF VALVES TO ZONE THE MAINLINE.
- DETERMINE LOCATIONS OF ALL UNDERGROUND UTILITIES AND PERFORM WORK IN AN APPROPRIATE MANNER TO AVOID ANY DAMAGE. HAND EXCAVATE WHERE REQUIRED.
- EXACT LOCATION OF CONTROLLERS, PUMPS (IF NEEDED), AND ANY OTHER EQUIPMENT SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE.
- THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE READING AT THE POINT OF CONNECTION AND THE DESIGN PRESSURE TO THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE. IF THESE DIFFERENCES ARE NOT REPORTED PRIOR TO START OF CONSTRUCTION, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.
- IRRIGATION SYSTEM SHALL BE TORO AND BE COMPATIBLE WITH TORO SERVICE SYSTEM. ANY OTHER SYSTEM MUST HAVE APPROVAL FROM LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE.
- SYSTEM SHOULD BE DESIGNED FOR 50 GPM @ 65 PSI. CONTRACTOR TO FIELD VERIFY ACTUAL CONDITIONS, LOCATION OF CONTROLLERS AND POINT OF CONNECTION. CONTRACTOR TO COORDINATE WITH IRRIGATION PLAN. OBJECT OF HEAD SPACING IS TO ACHIEVE HEAD TO HEAD COVERAGE AND MINIMIZE OVER SPRAY INTO WALKS AND BUILDINGS.
- A RAIN SENSOR SHALL BE CONNECTED TO THE IRRIGATION CONTROLLER OUT OF PUBLIC VIEW.
- CONTRACTOR TO PROVIDE IRRIGATION SHOP DRAWINGS IN CAD FORMAT AND REVIEWS FOR LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE TO REVIEW AND APPROVE.
- CONTRACTOR TO PROVIDE MODIFICATION TO SHOP DRAWINGS FOR AS-BUILT CONDITIONS.
- OWNER SHALL SUBMIT MANUFACTURER'S LITERATURE, DESIGN, AND INSTALLATION PROCEDURES AND DETAILS FOR IRRIGATION SYSTEM.
- ALL PLANT MATERIAL SHALL BE AUTOMATICALLY IRRIGATED AS INDICATED ON THIS PLAN AND AS PER THE SPECIFICATIONS.
- IRRIGATION SHALL BE ZONED AFTER PLANTING (SUNNY VS. SHADED AREAS, SLOPES VS. LEVEL AREAS, SLOPING VS. FLAT AREAS) AND USING APPROPRIATE HEAD TYPES. IRRIGATION CONTRACTOR TO SUBMIT IRRIGATION ZONES PLAN FOR OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECTS REVIEW AND APPROVAL.
- EACH ZONE SHALL GET A Drip RING.
- ALL PLANTS SHALL GET A Drip DISTRIBUTION ZONE (1 Emitter per plant).
- NATIVE PLUGS SHALL GET HIGH POP-UP SPRAYS.
- ALL DRINKING WATER IS TO HAVE ICY DEGRAVE GRAVEL AT THE LOW POINT TO A MAX AS A 1:10 SLOPE.
- INSTALL (1) QUICK COUPLER VALVE EVERY 20' OF MAINLINE PIPING AND AT THE ENDS OF DEAD END RUNS OF MAINLINE. CONTRACTOR TO COORDINATE LOCATIONS OF QUICK COUPLERS WITH OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT. CONTRACTOR TO DETERMINE LOCATION OF ALL BLOWS, TURNS AND BRAINS.
- THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF CONTROL WIRES. ALL WIRING TO BE DIRECT BURIAL IN THE SAME TRENCH WITH MAINS OR CONDUIT WHEN INSTALLED ABOVE GROUND.
- THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF APPROPRIATE SIZED CIRCUIT SLEEVES UNDER ALL PAVED AREAS WITHOUT DESTRUCTION OF PAVING. CONTRACTOR TO COORDINATE SLEEVE INSTALLATION WITH GENERAL CONTRACTOR AND OTHER TRADES.
- WHENEVER POSSIBLE, INSTALL PIPING AND 24 VOLT CONTROL WIRES IN THE SAME TRENCH. CONTRACTOR TO DETERMINE LOCATIONS OF GOING OVER GROUNDS, ETC.
- INSTALL PIPE MATERIALS AND EQUIPMENT USE TEFLOF TAPE OR TEFLO DOME ON ALL PVC MALE PIPE THREADS, SPRINKLER PIPE JOINTS AND VALVE ASSEMBLIES.
- ALL POP-UP TYPE SPRINKLER HEADS INSTALLED IN SHRUB, GROUNDCOVER, AND PERENNIALS SHALL BE INSTALLED SO THAT THE TOP OF THE SPRINKLER HEAD IS 1" ABOVE FINISH GRADE.
- ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHER WISE DESIGNED IN DETAILS.
- THE IRRIGATION CONTRACTOR SHALL ADJUST SPRINKLER HEADS FOR OPTIMUM COVERAGE AND PREVENT OVERSPRAY INTO PATHS AND STRUCTURES. THIS SHALL INCLUDE, BUT NOT LIMITED TO, FLOW CONTROL ADJUSTMENT AND SELECTING THE BEST NOZZLE AND DEGREE OF ARC TO FIT THE SITE CONDITIONS.
- IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF AND REVIEW EXISTING CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW AS-BUILT OR DESIGN DRAWINGS PRIOR TO BIDDING AND/OR CONDUCTING ANY SITE WORK. CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF EXISTING IRRIGATION AND ADJUST LAYOUT IN COORDINATION WITH NEW IRRIGATION SYSTEM.



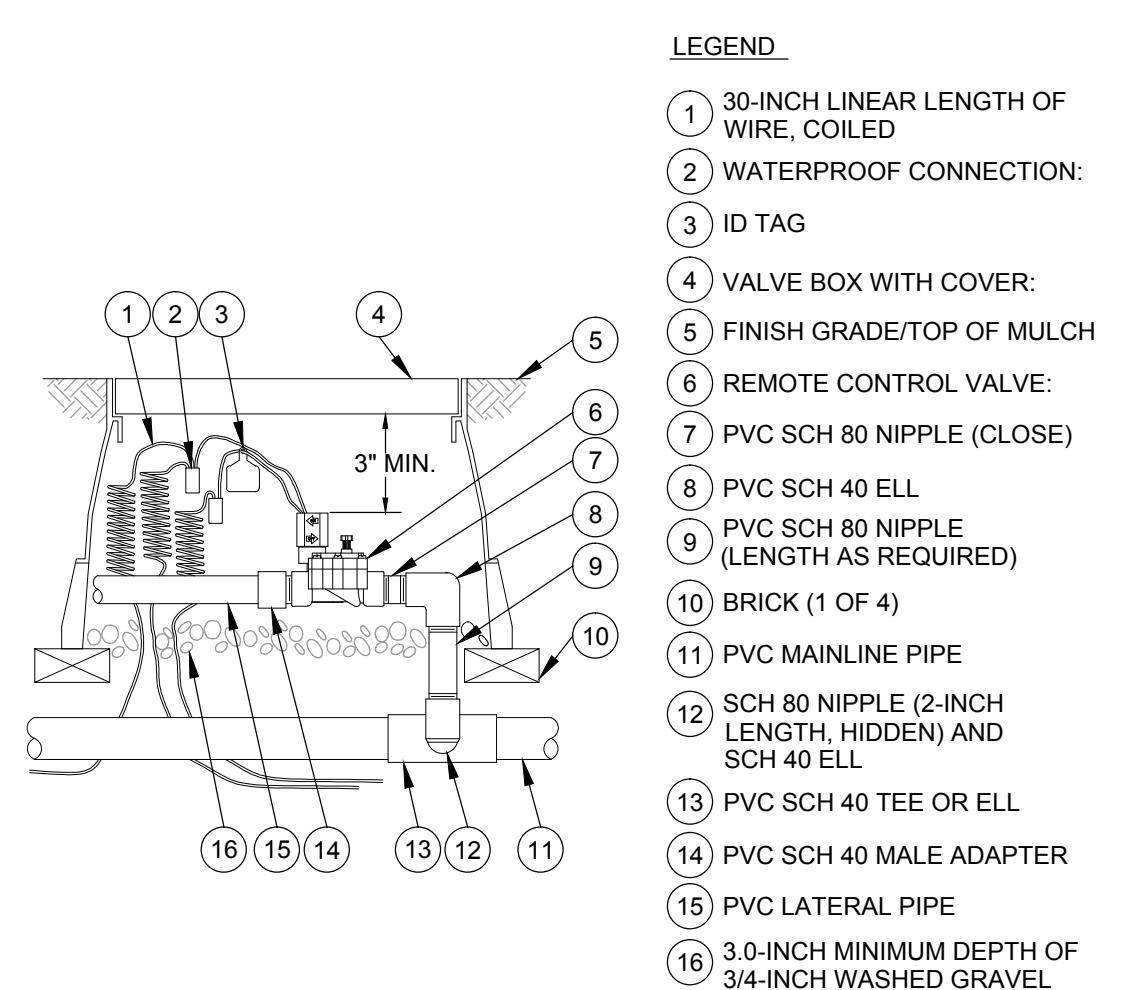
A MODULAR CONTROLLER SYSTEM (INDOOR)

SCALE: N.T.S.



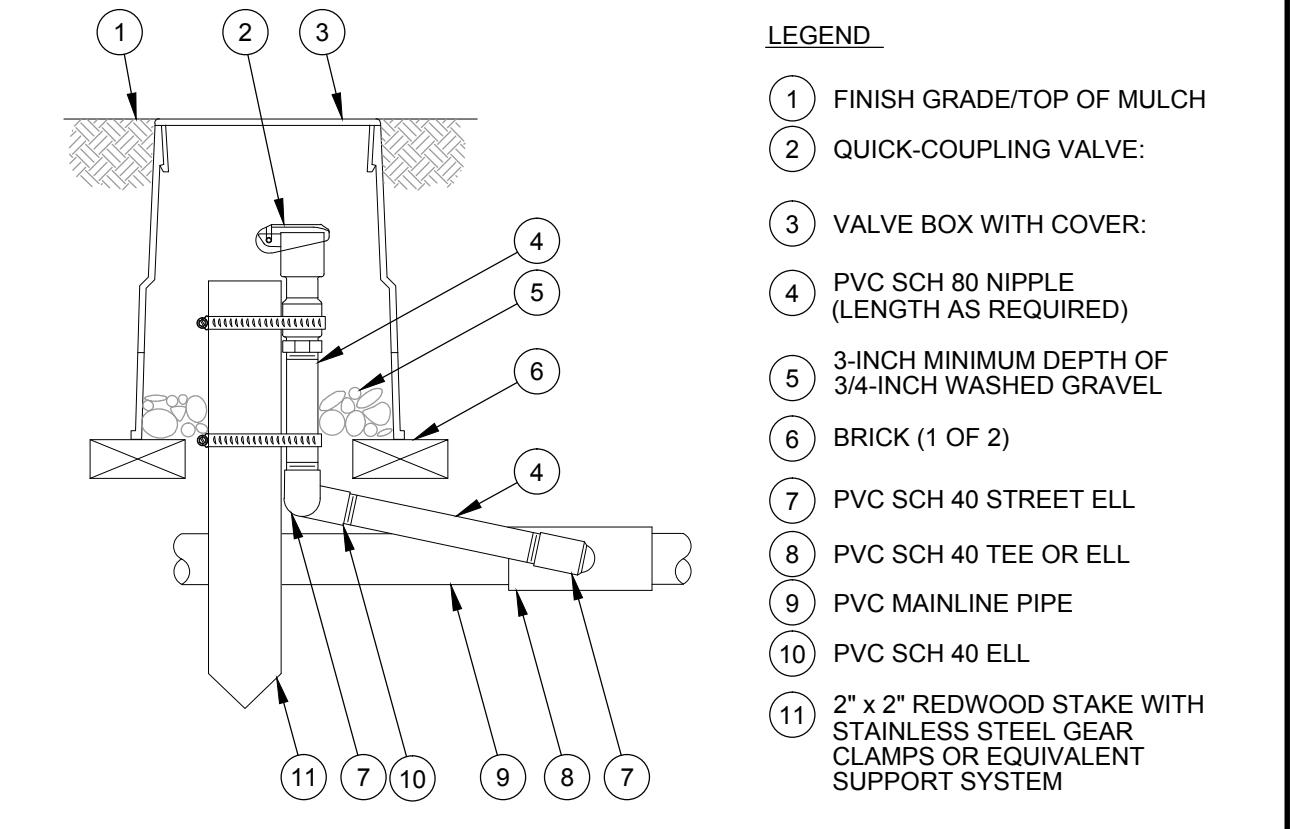
B DRIP ZONE KIT IN SQUARE VALVE BOX

SCALE: N.T.S.



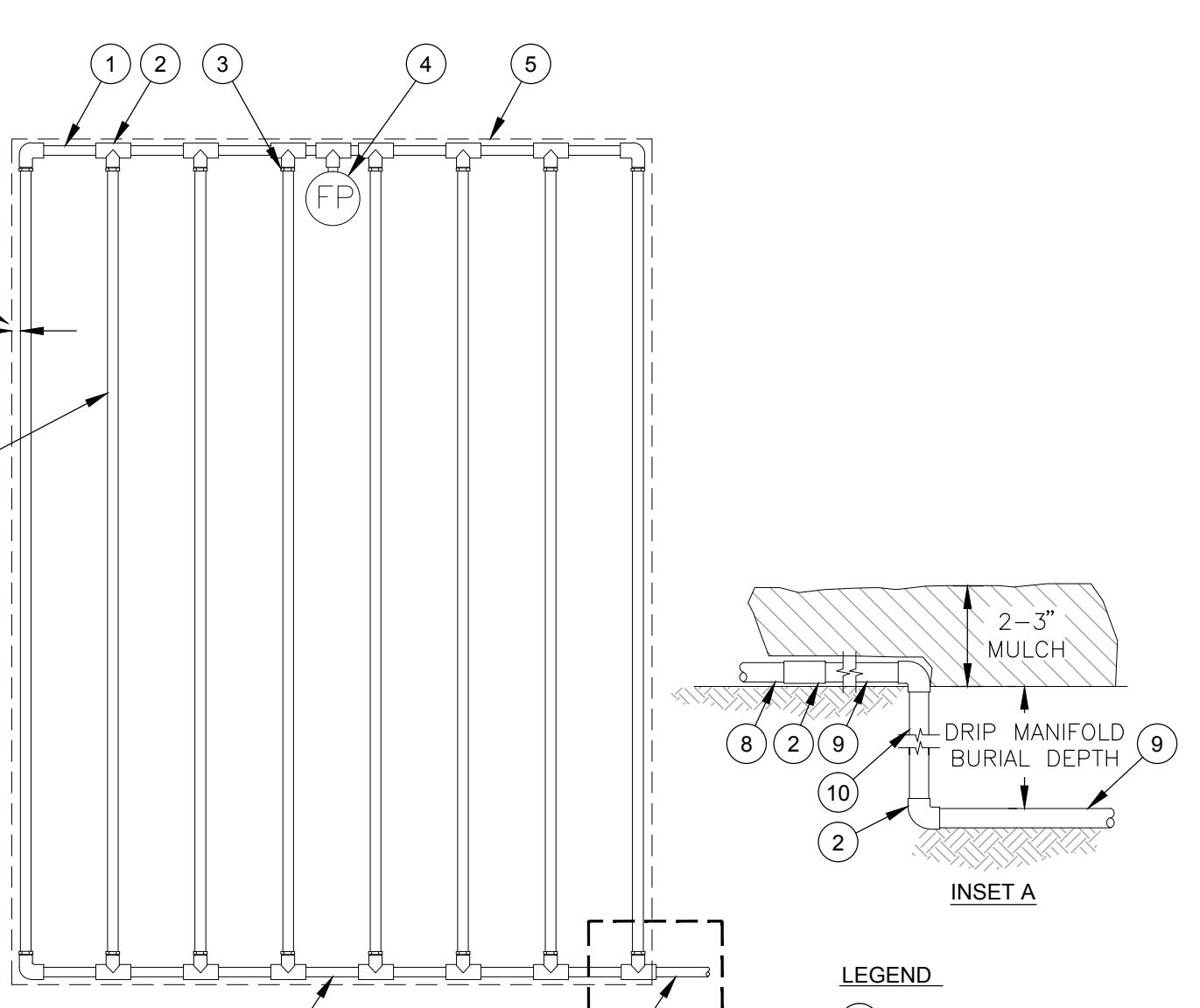
C ELECTRIC REMOTE-CONTROL VALVE

SCALE: N.T.S.



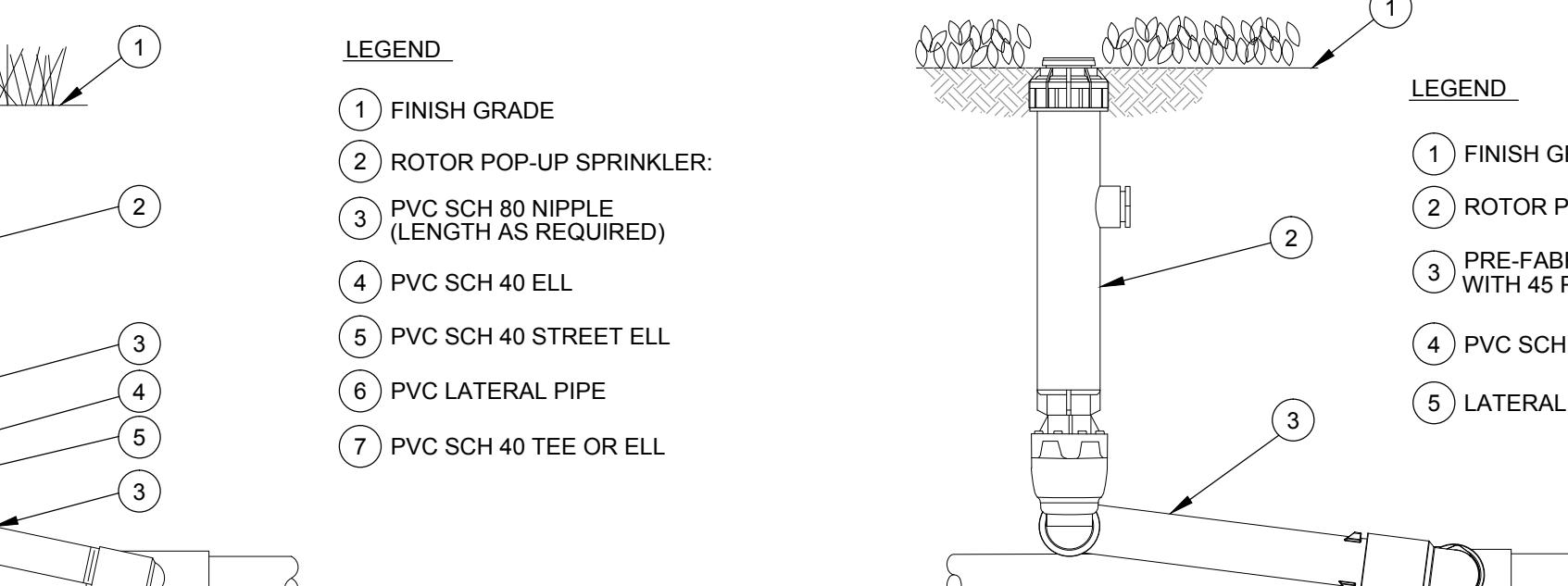
D QUICK COUPLING VALVE

SCALE: N.T.S.



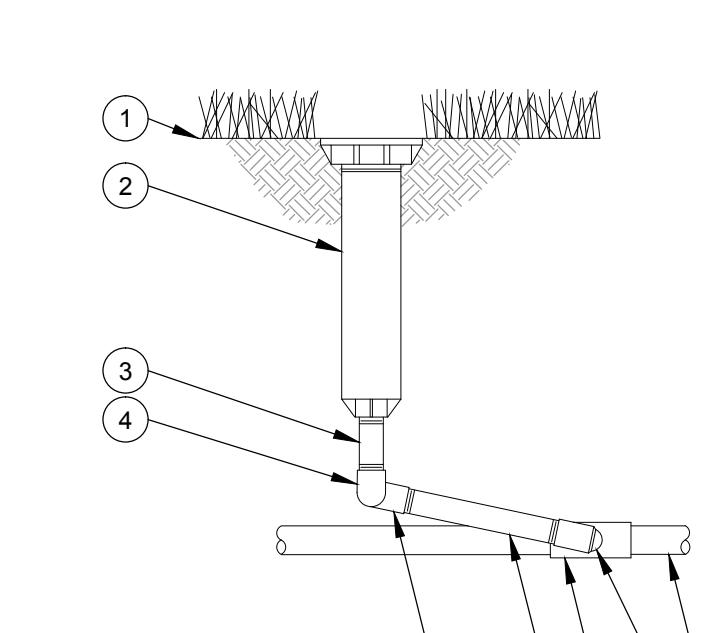
E ROTOR POP-UP SPRINKLER WITH SWING JOINT

SCALE: N.T.S.



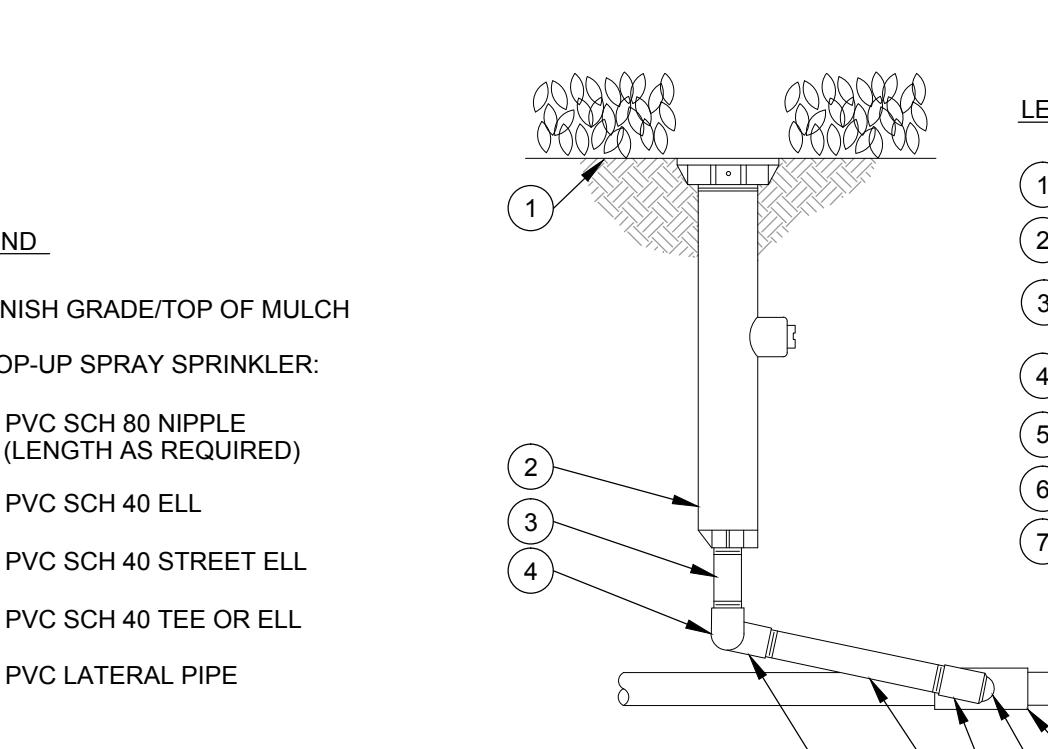
F ROTOR POP-UP SPRINKLER WITH SWING JOINT

SCALE: N.T.S.



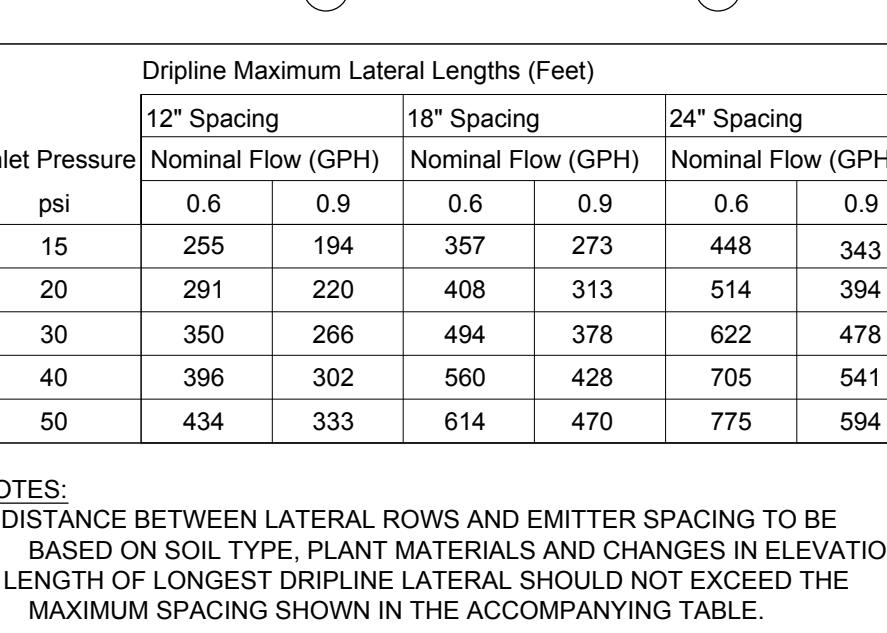
G POP-UP SPRAY SPRINKLER WITH SWING JOINT

SCALE: N.T.S.



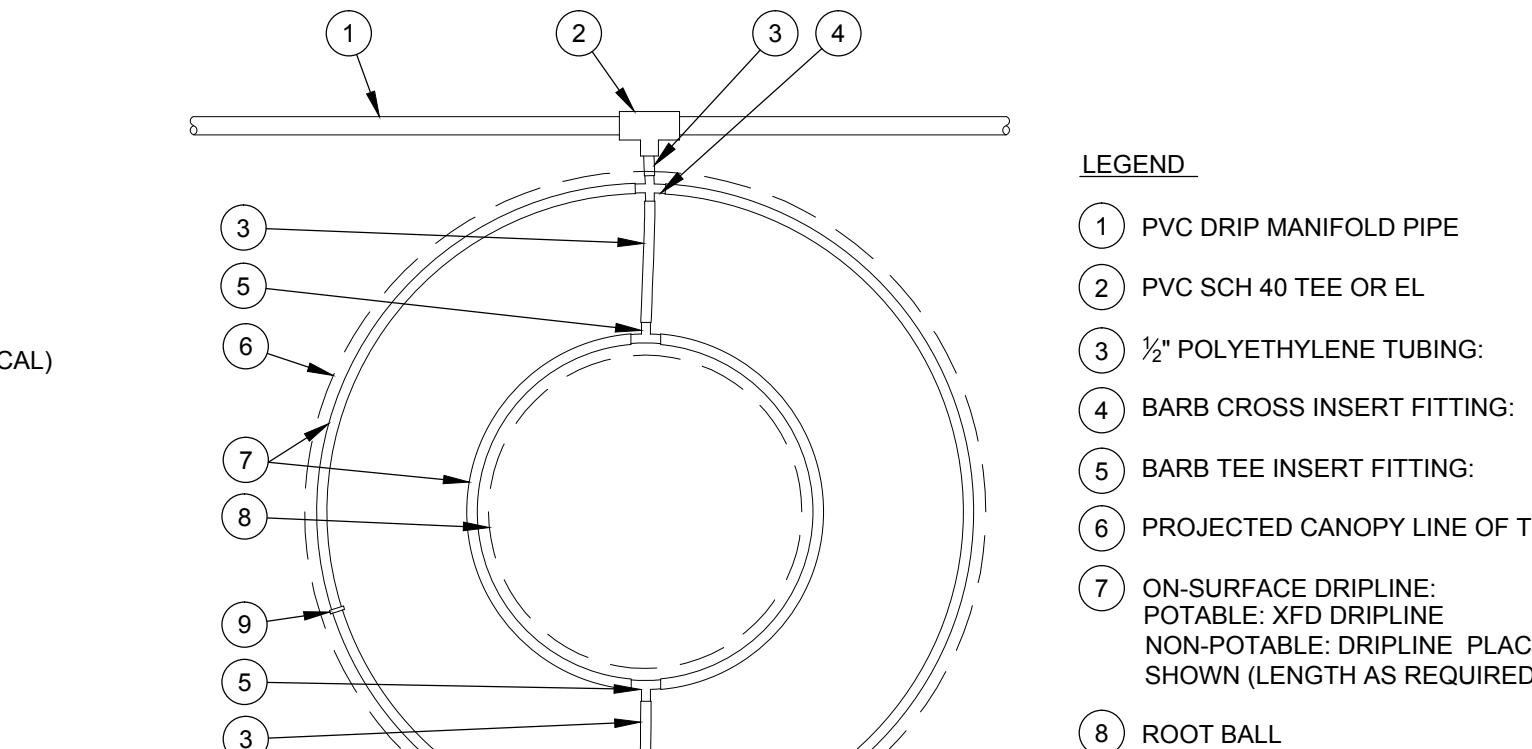
H POP-UP SPRAY SPRINKLER WITH SWING JOINT

SCALE: N.T.S.



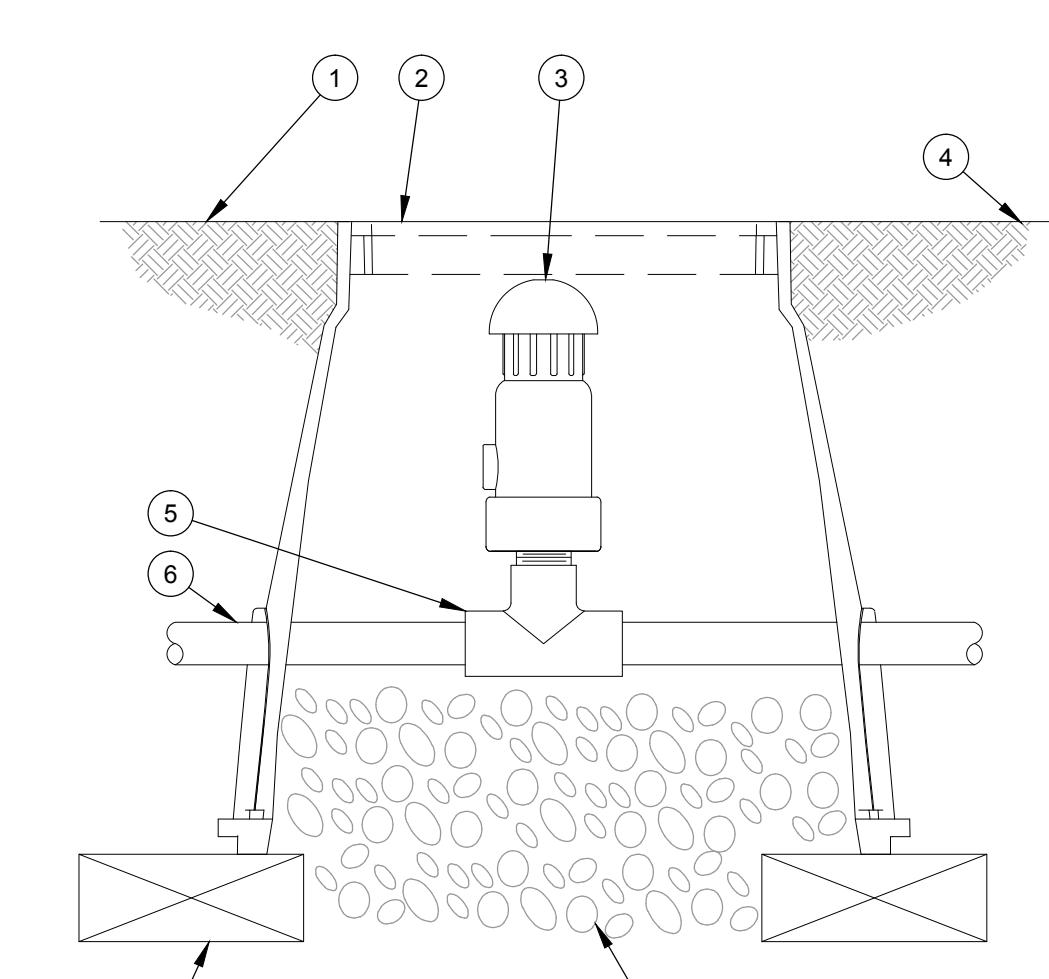
I ON-SURFACE DRIPLINE END FEED LAYOUT

SCALE: N.T.S.



J ON-SURFACE DRIPLINE AROUND TREE

SCALE: N.T.S.



K SUB-SURFACE DRIPLINE AIR VACUUM RELIEF VALVE KIT IN PVC HEADER

SCALE: N.T.S.

