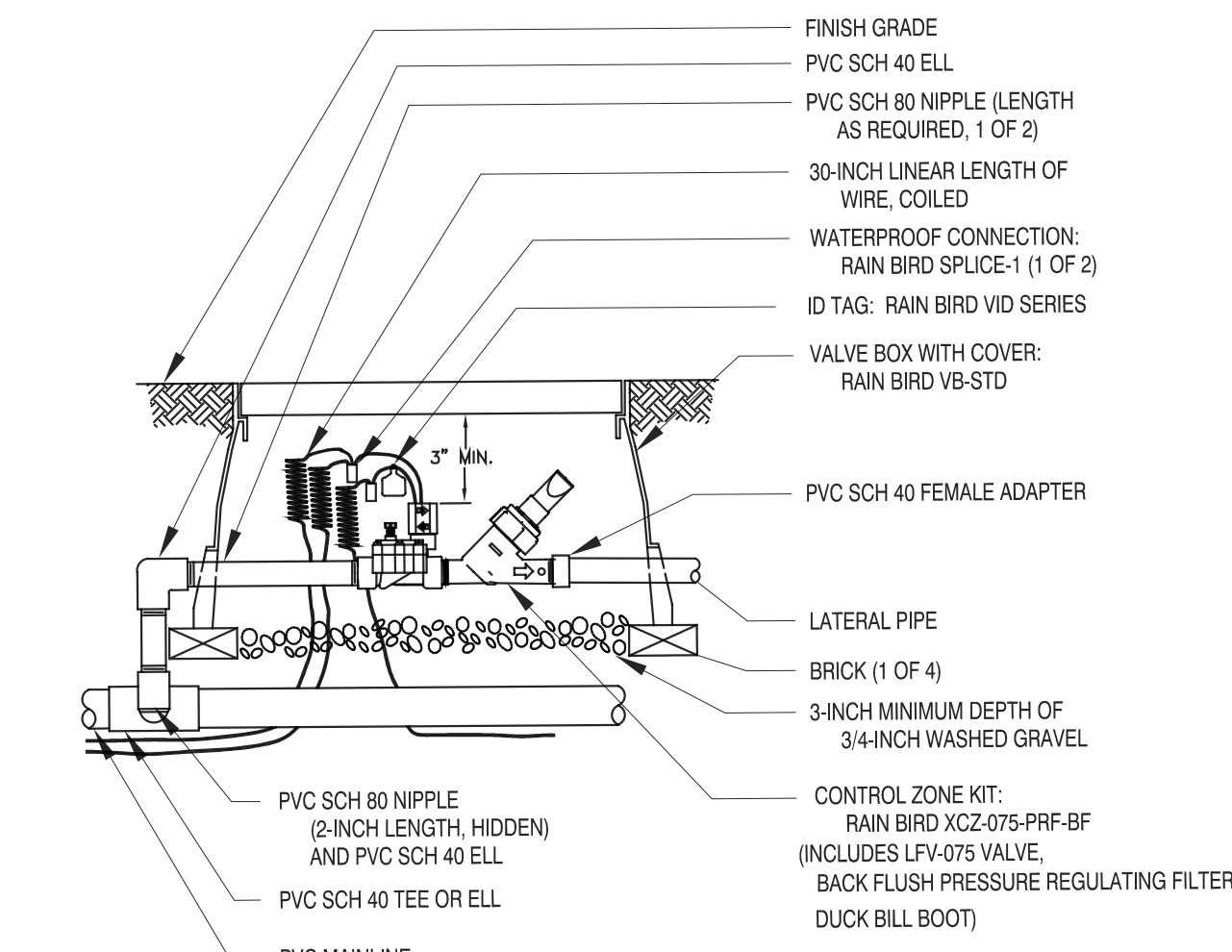
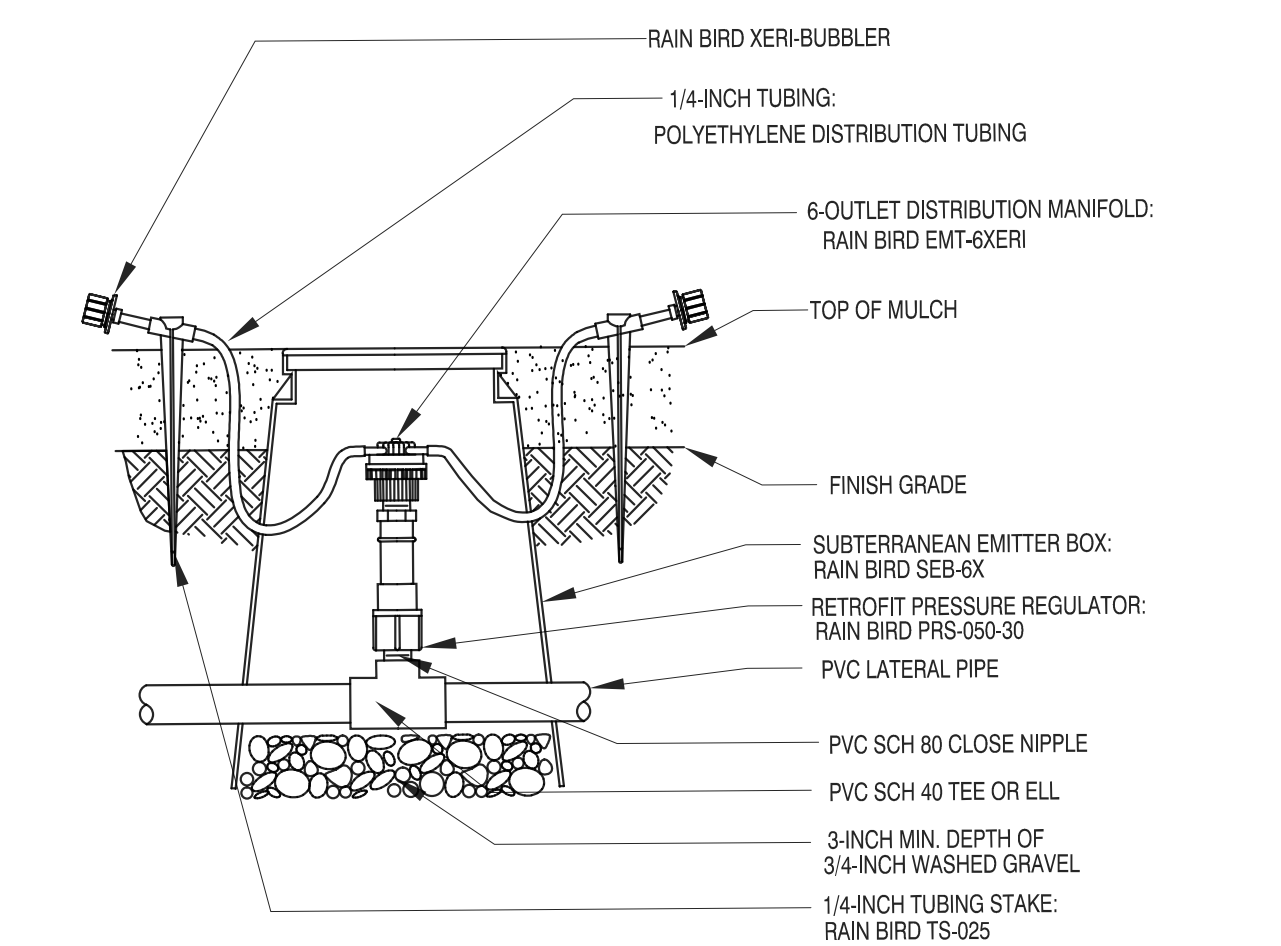
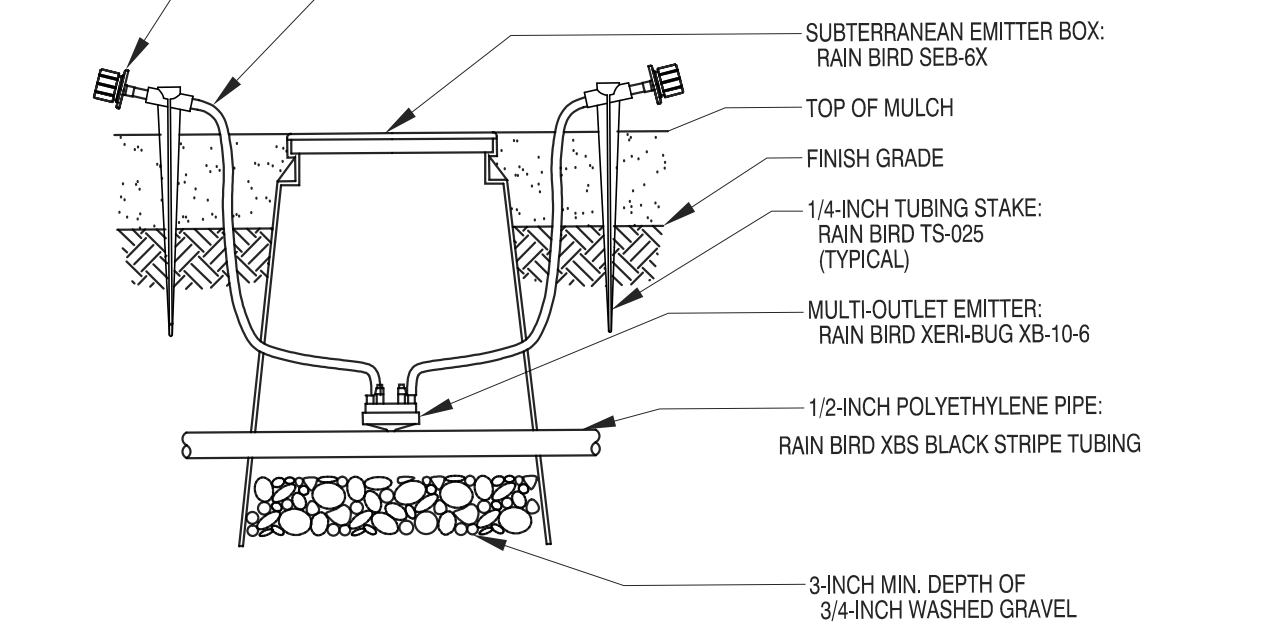




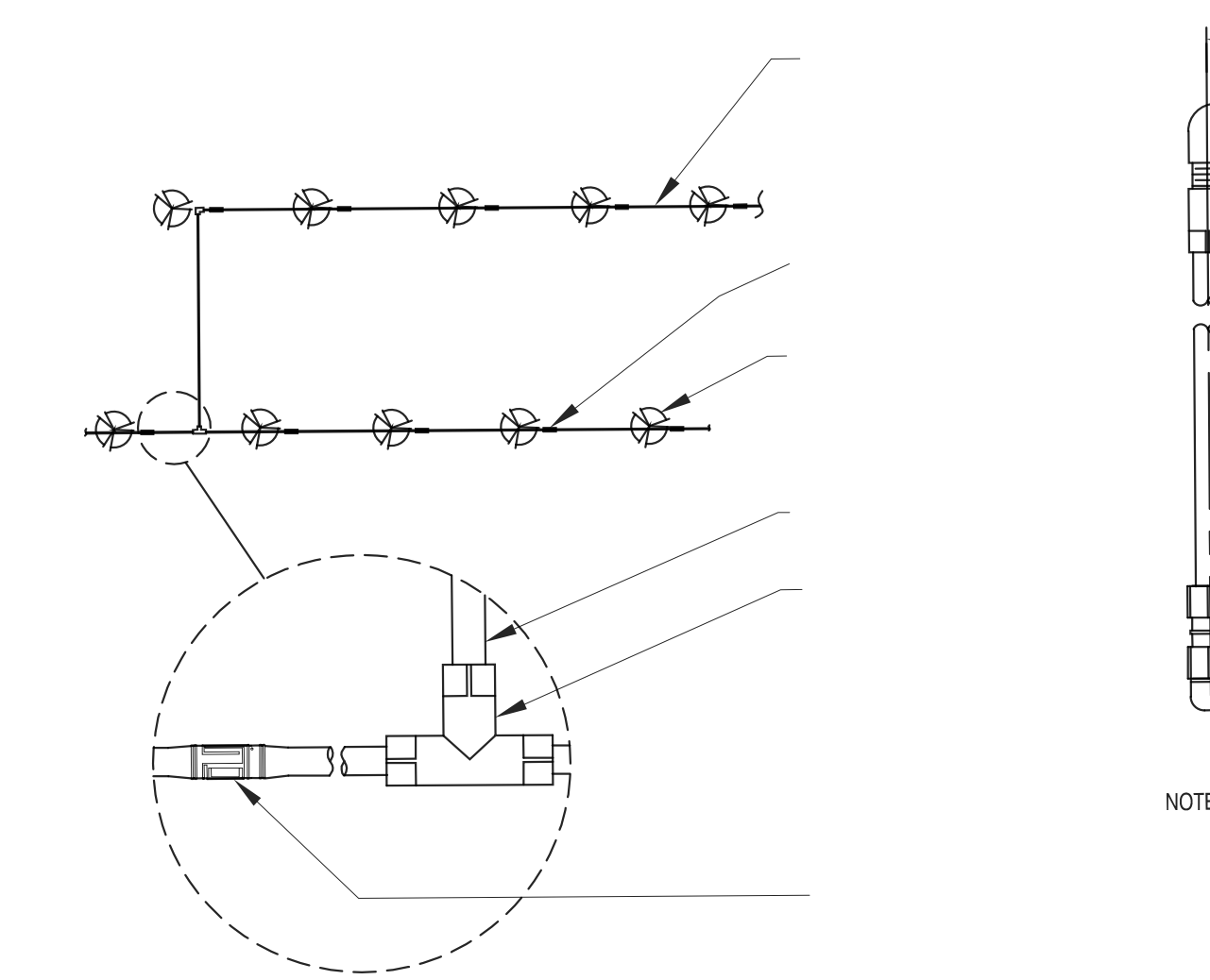
7 3/4" CONTROL VALVE
N.T.S.



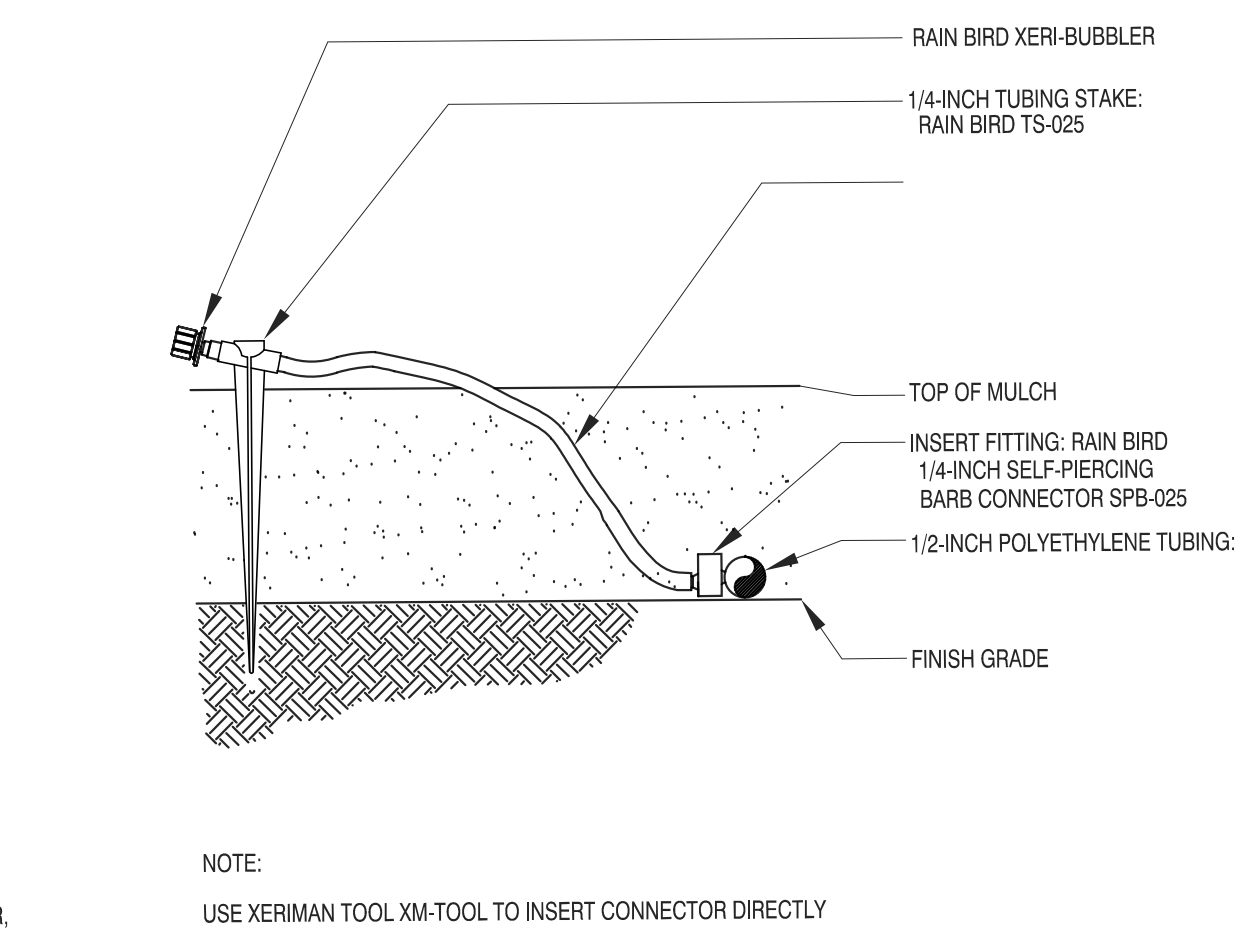
5 6 OUTLET MANIFOLD
N.T.S.



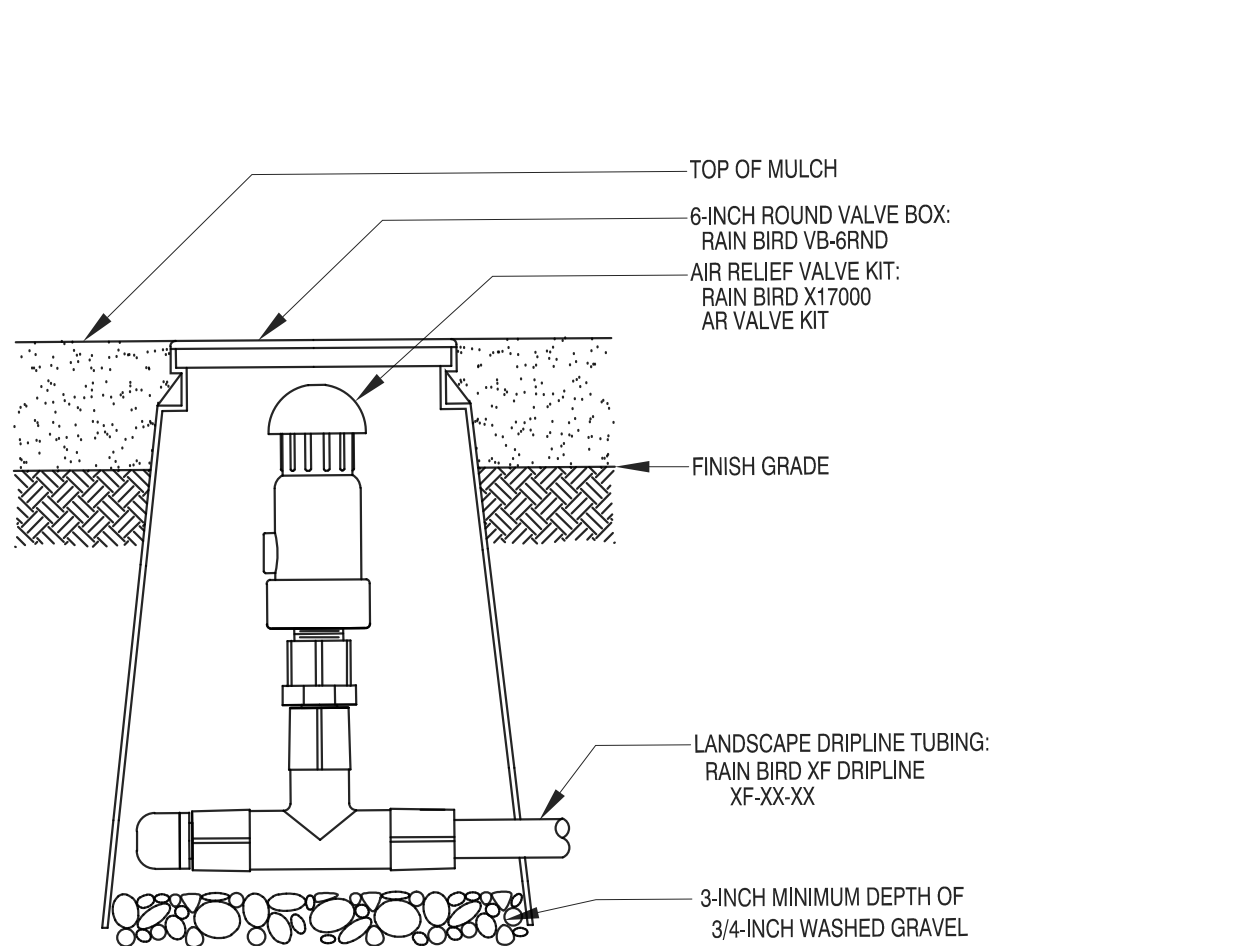
3 BARBED MULTI OUTLET EMITTER
N.T.S.



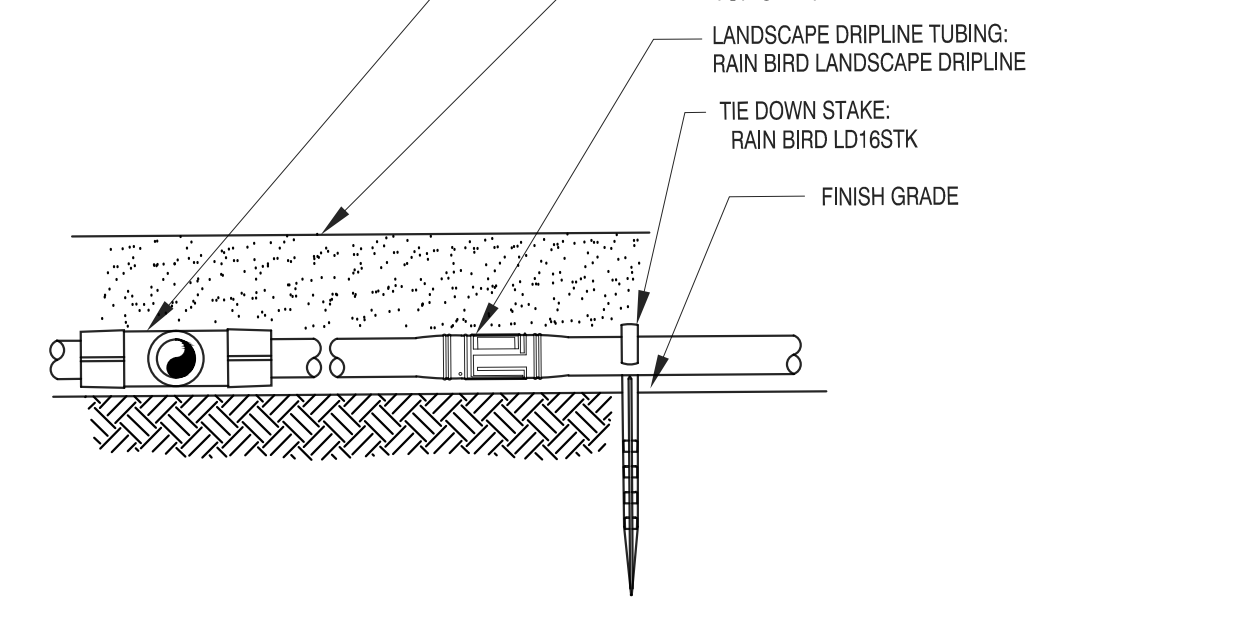
1 LANDSCAPE DRIPLINE LATERALS
N.T.S.



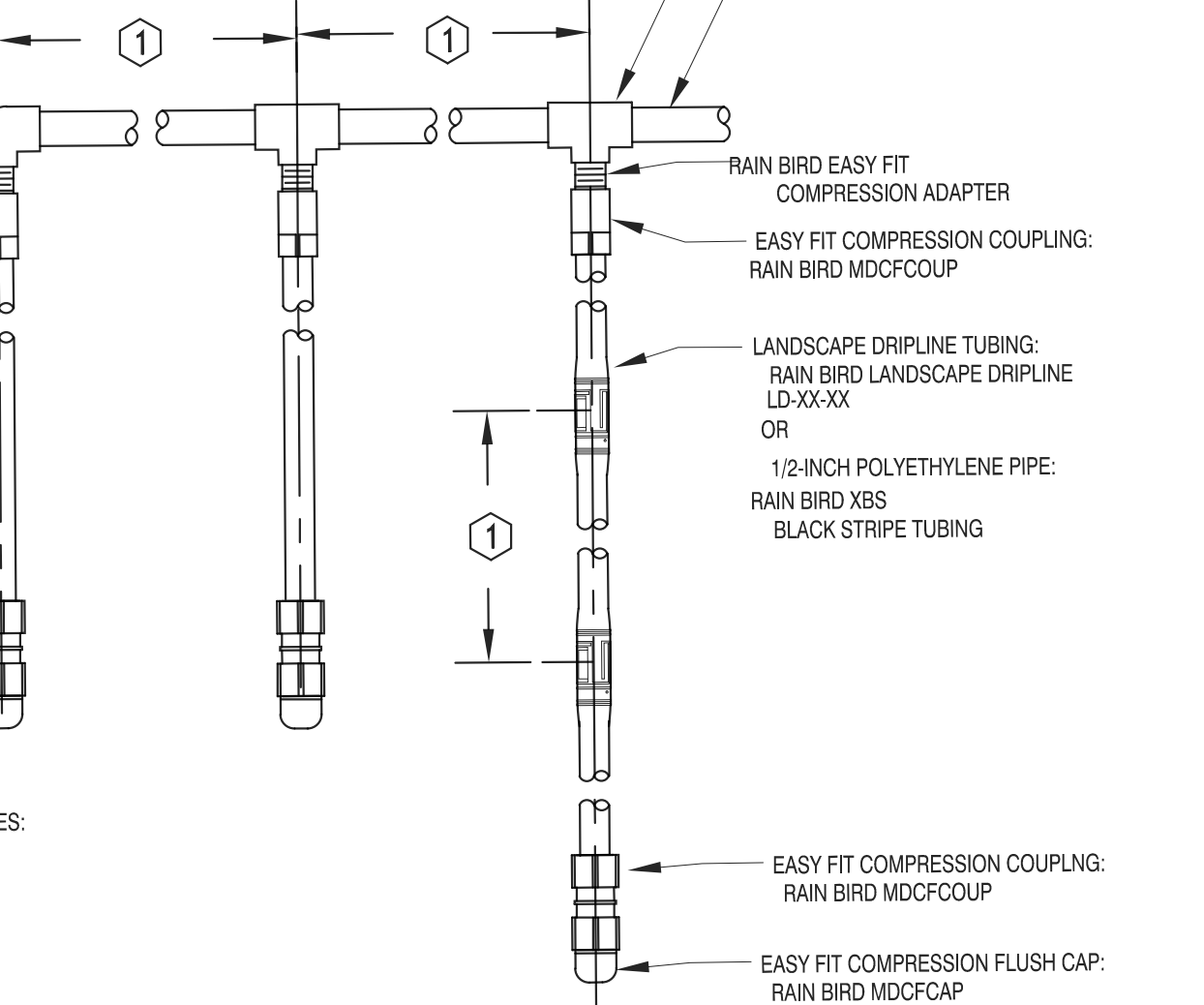
8 XERI-BUBBLER ON 1/4" TUBING
N.T.S.



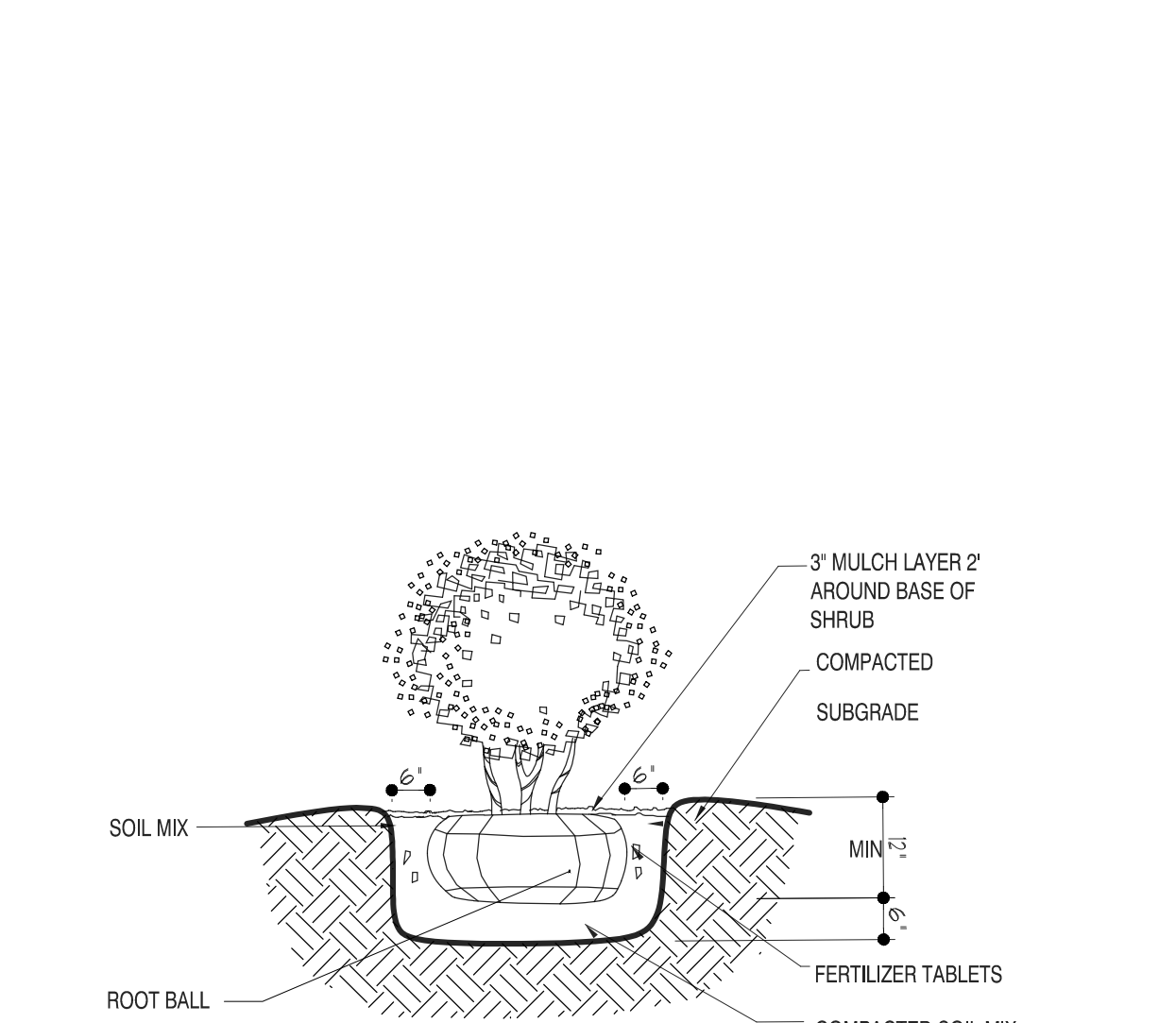
6 AIR RELIEF VALVE
N.T.S.



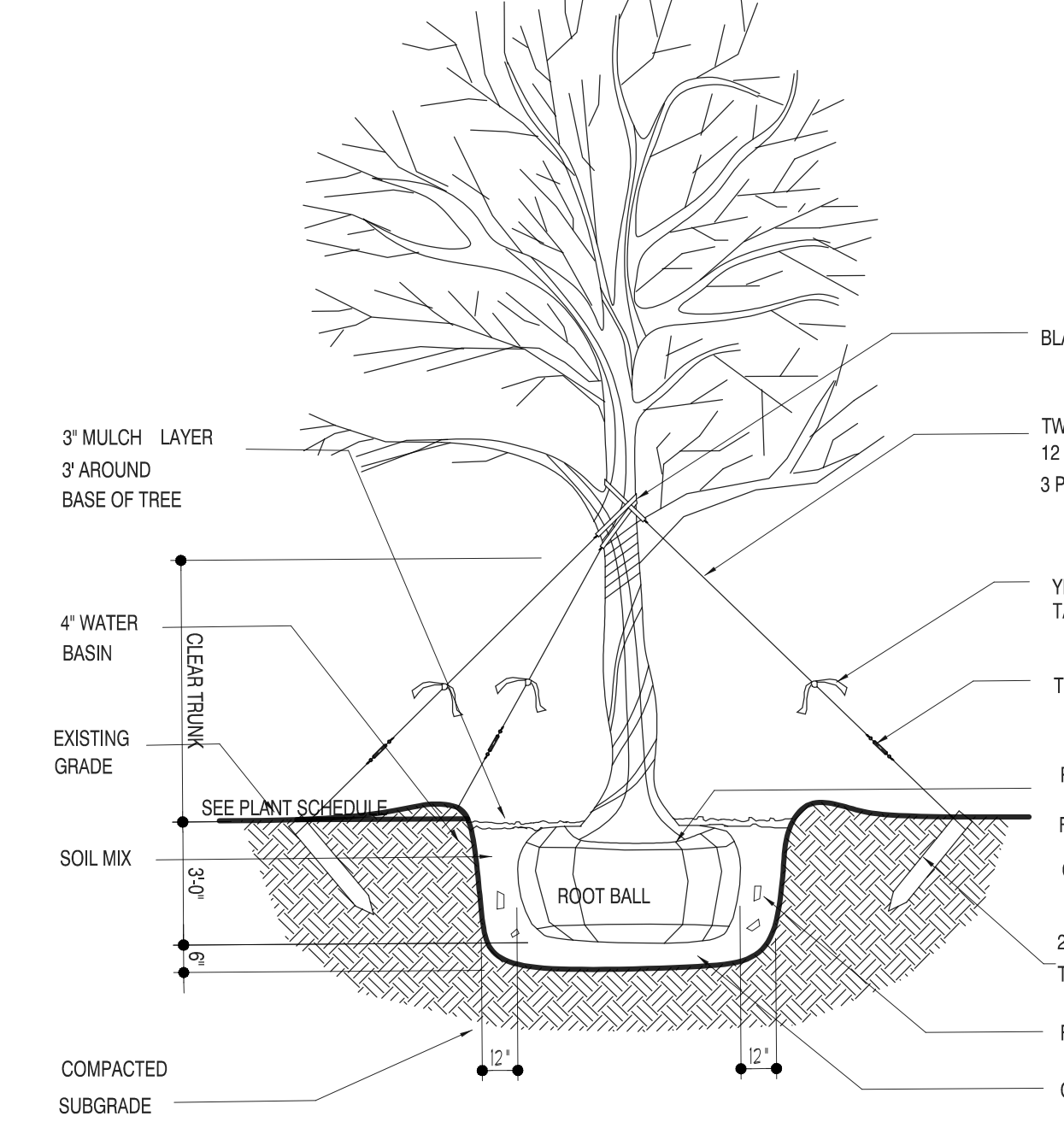
4 DRIPLINE ON GRADE
N.T.S.



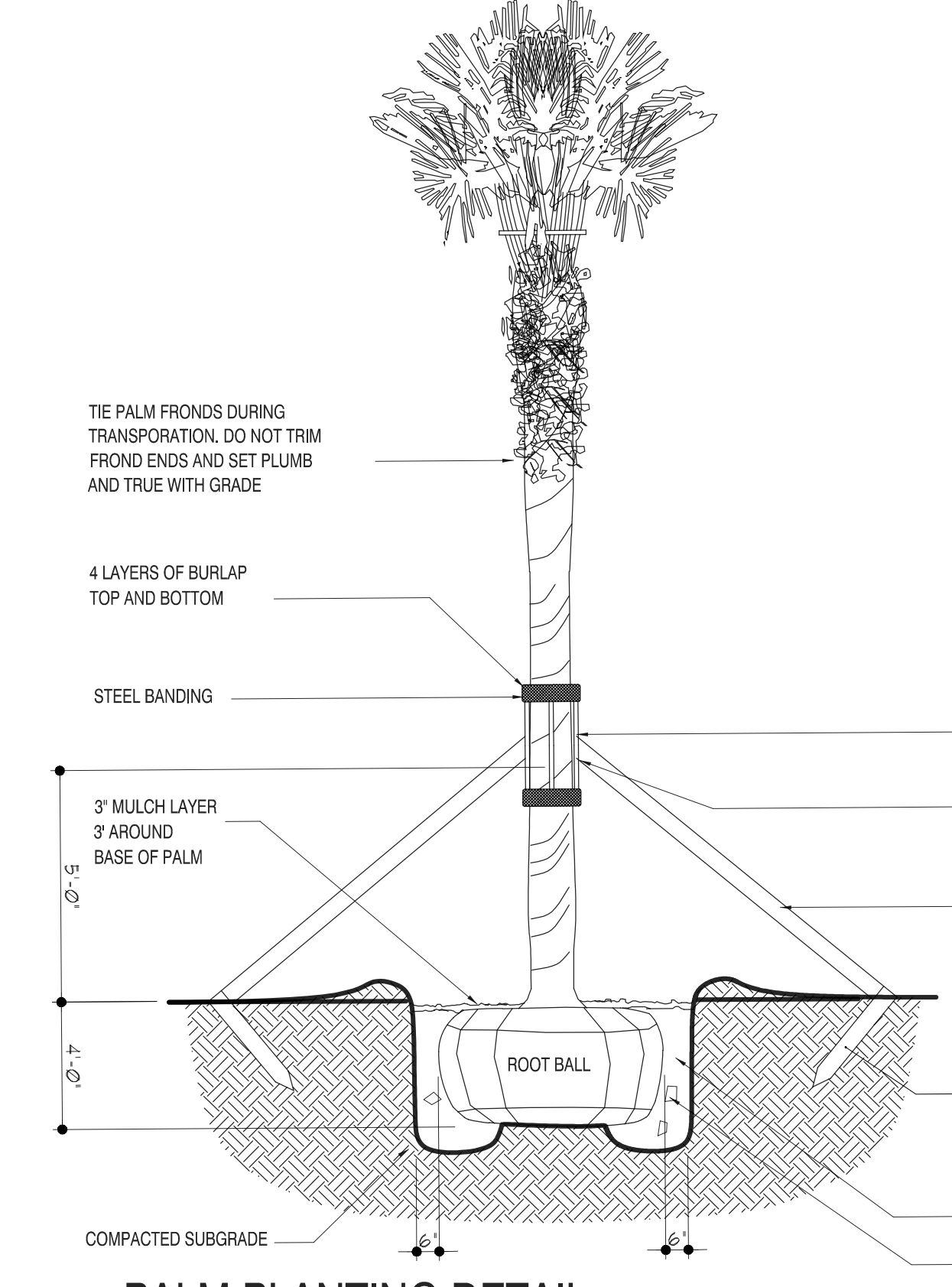
2 LANDSCAPE DRIPLINE LATERALS
N.T.S.



11 SHRUB PLANTING DETAIL
NOT TO SCALE



10 CANOPY TREE PLANTING DETAIL
NOT TO SCALE



9 PALM PLANTING DETAIL
NOT TO SCALE

UB 24-2 Specifications 24" DeepRoot® Tree Root Barrier

Specified tree root barrier is a mechanical barrier and root deflector used to prevent tree roots from damaging hardscapes and landscapes. Assembled in 24" (609 mm) long modules to create varying lengths for linear applications, or perimeter surround applications in varying sizes.

A. Materials
1. The contractor shall furnish and install tree root barrier as specified. The tree root barrier shall be either product #UB 24-2 as manufactured by DeepRoot® Green Infrastructure, LLC, 530 Washington Street, San Francisco, CA, www.deeproot.com (800.458.7668).

2. Root barrier shall be recyclable, black, injection molded panels with 0.80" (2.03 mm) wall thickness in modules 24" (609 mm) long and 24" (609 mm) deep.

3. Root barrier shall be manufactured with 75% reprocessed polypropylene with added ultraviolet inhibitors.

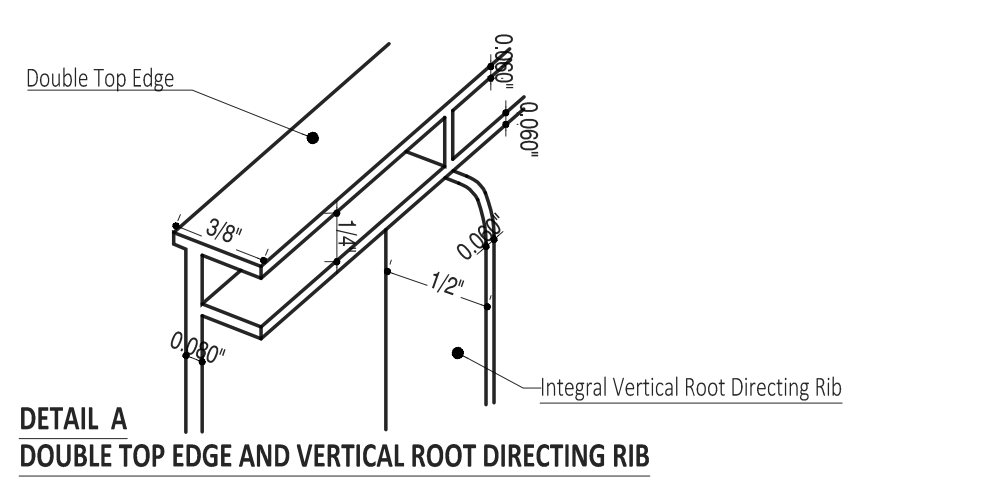
4. Root barrier shall be comprised of 24" (60.96 cm) panels. Each panel shall have no less than four (4) Molded Integral Vertical Root Directing Ribs of a minimum 0.075" (1.90 mm) thickness, protruding 1/2" (12.7 mm) at 90° from interior of the barrier panel, spaced 6" (152.4 mm) apart. (See Details A & D)

5. Root barrier shall have a Double Top Edge consisting of two parallel, integral, horizontal ribs at the top of the panel at 0.060" (1.52 mm) thickness, 3/8" (9.53 mm) wide and 1/4" (6.35 mm) apart with the lower rib attached to the vertical Root Directing Ribs (See Detail A).

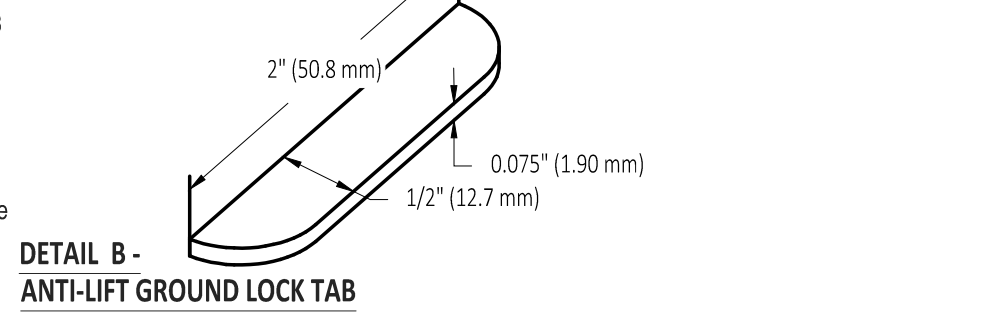
6. Root barrier shall have a minimum of twelve (12) Anti-Lift Ground Lock Tabs consisting of integral horizontal ridges of minimum 0.075" (1.90 mm) thickness in the shape of a segment of an oblong, the 2" (50.8 mm) chord of the segment, joining the panel wall and the segment, protruding 3/8" (9.53 mm) from the panel. The twelve ground locks on each panel shall be about equally spaced between each of the vertical root directing ribs (Four (4) between each set of ribs, see Details B & D).

7. Root barrier shall have an integrated Zipper Joining System for assembly by sliding one panel into another (See Detail C).

U.S. Patents: 5,305,549; and 5,528,857. Other Patents Pending.



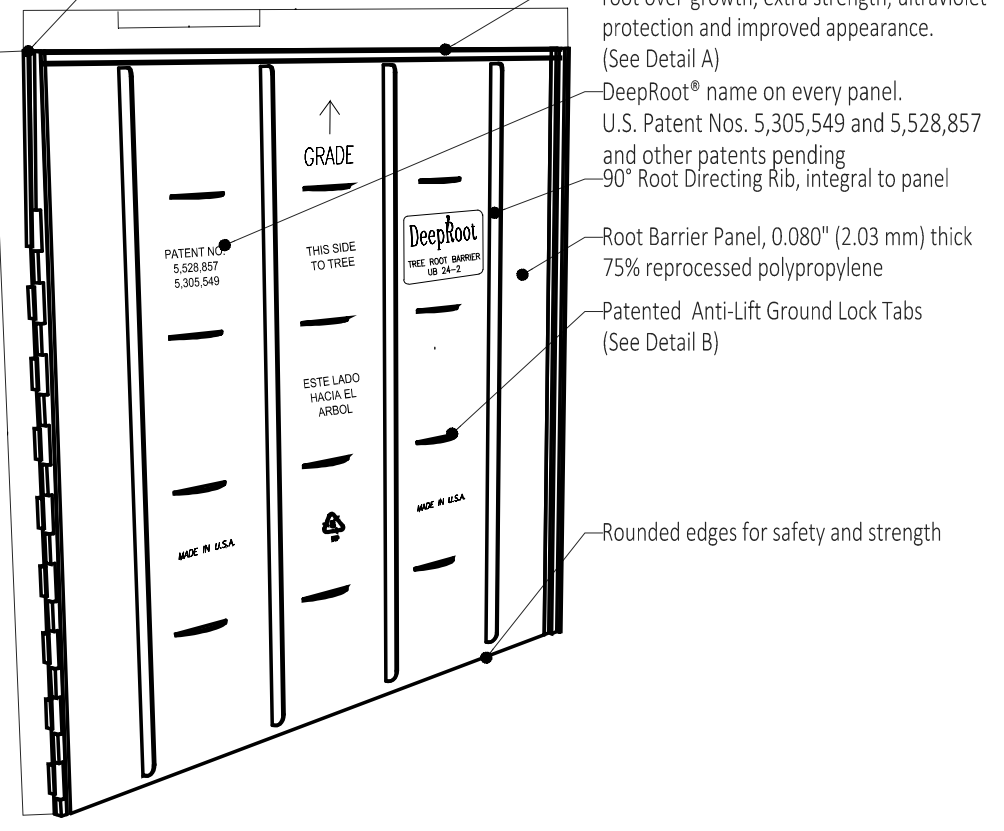
DETAIL A DOUBLE TOP EDGE AND VERTICAL ROOT DIRECTING RIB



DETAIL B - ANTI-LIFT GROUND LOCK TAB



DETAIL C - ZIPPER JOINING SYSTEM



DETAIL D - TREE ROOT BARRIER PANEL

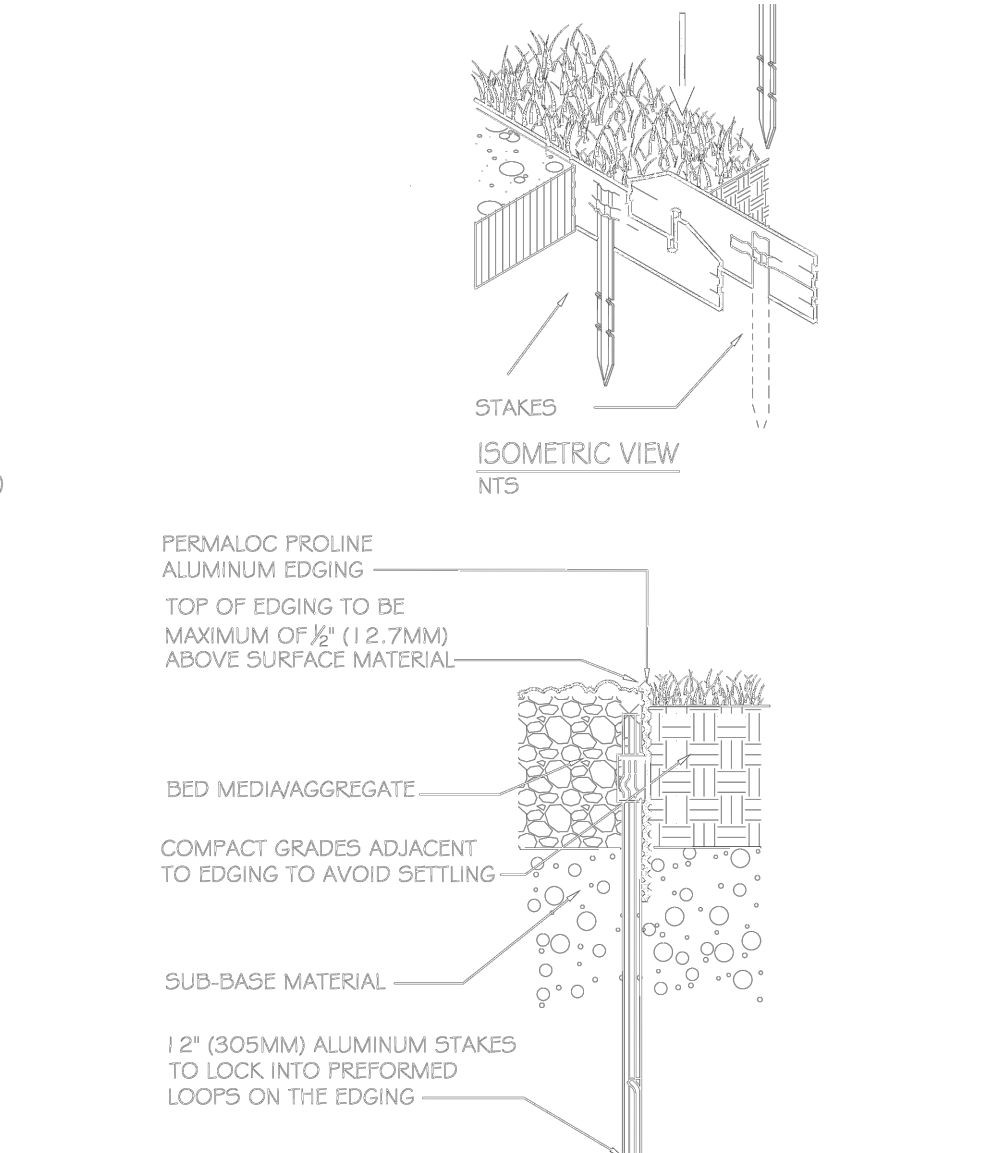
Properties	Typical Value	ASTM Test Method
Tensile strength @ yield - Wall	2,354 PSI	D638
Tensile strength @ yield - Hinge	2,846 PSI	D638
Yield Elongation - Wall	7.44%	D638
Yield Elongation - Hinge	7.01%	D638
Flexural Modulus	119,625 PSI	D790B
Notched Iod Impact - Wall	3.84 (ft-lbs)	D256A
Rockwell Hardness r. scale - Wall	84.4	D785A

14 ROOT BARRIER NOT TO SCALE

SIZE:
3/1 6" OR 1/4" X 4" W/ O. 1 25" (3.18MM) EXPOSED TOP UP

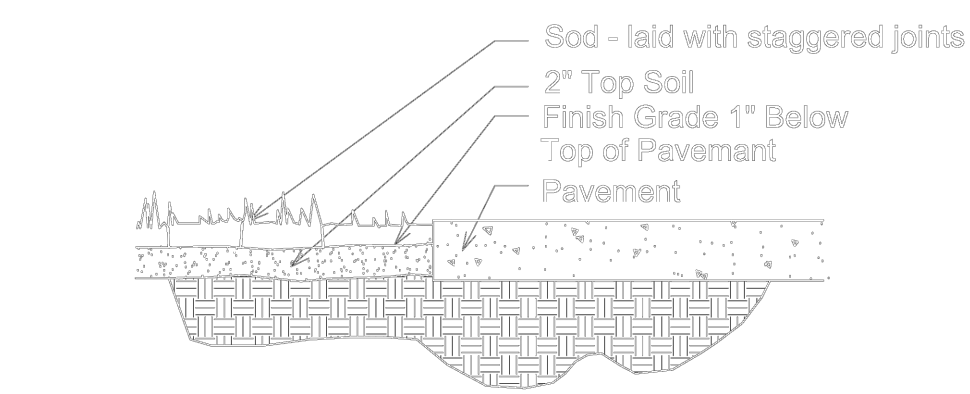
FINISH LEGEND:
☐ (MF) MILL FINISH-NATURAL ALUMINUM

- NOTES:
1. INSTALL PER MANUFACTURER'S "INSTALLATION GUIDELINES"
 2. 8'-0" (2.44 M) SECTIONS TO INCLUDE (3) 1/2" (305 MM) ALUMINUM STAKES
 3. 16'-0" (4.88 M) SECTIONS TO INCLUDE (5) 1/2" (305 MM) ALUMINUM STAKES
 4. CORNERS - CUT BASE EDGING UP HALFWAY AND FORM A CONTINUOUS CORNER.
 5. PERMALOC PROLINE AS MANUFACTURED BY PERMALOC CORPORATION, HOLLAND MI. (800) 356-9660, (616) 399-9600
 6. CONTRACTOR'S NOTE: FOR PRODUCT AND PURCHASING INFORMATION VISIT:WWW.PERMALOC.COM



13 EDGE DETAIL-BED MATERIAL AND TURF

SCALE: N.T.S.



12 SODDING
Section
Not To Scale

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REGISTRATION: A.A. 26000528
WEBSITE: www.mraq.com
TELEPHONE: 305-548-3006

NEW RESIDENCE
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PINECREST, FLORIDA 33156

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MECHANICAL ENGINEER: ORLANDO RANGEL, P.E. - 60225 9940 SW 37th STREET, MIAMI, FLORIDA 33156
CIVIL ENGINEER: ANDRE D. MARTINEZ, P.E. - 85425 AM CIVIL ENGINEERS & PLANNERS 860 SW 21st STREET MIAMI, FLORIDA 33135
LANDSCAPE ARCHITECT: HUMBERTO RAMOS AIA 0077833
REGISTERED LANDSCAPE ARCHITECT CASTO MIGUEL JUNCOS LA 6667184 STATE OF FLORIDA

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KEY PLAN:

COMM. NO.: 17-117
DATE: JANUARY, 2022
DRAWN BY:
CONTENT: LANDSCAPE PLAN

NO. REVISION: 01/04/2023
Building Comments

SHEET NUMBER: L-3