

# LANDSCAPE STANDARD DRAWINGS

**DECEMBER 2024**

STANDARD DRAWINGS ENSURE THE APPLICATION OF UNIFORM STANDARDS FOR THE DESIGN, FABRICATION, INSTALLATION, AND CONSTRUCTION OF SPECIFIC ITEMS OF WORK FOR THE SOUND TRANSIT LINK LIGHT RAIL, SOUNDER COMMUTER RAIL, REGIONAL EXPRESS BUS, AND STRIDE BUS RAPID TRANSIT SYSTEMS. STANDARD DRAWINGS ARE PRESCRIPTIVE DOCUMENTS FOR ALL PROJECTS.

STANDARD DRAWINGS SHALL BE USED IN THE DESIGN OF INTERFACE POINTS, PROJECT SPECIFIC ITEMS OF WORK OR AS A BASIS FOR PRESENTATION OF DESIGN INFORMATION. THE DESIGNER OF RECORD SHALL REVIEW THE STANDARD DRAWINGS IN CONJUNCTION WITH OTHER CONTRACT DOCUMENTS, AND VALIDATE, FINALIZE, STAMP, AND SIGN THESE DRAWINGS FOR INCLUSION INTO THE PROJECT CONTRACT DOCUMENTS.

IF THE DESIGNER RECOMMENDS THAT AN ASPECT OR ASPECTS OF THESE STANDARD DRAWINGS BE MODIFIED, THE DESIGNER SHALL INFORM THE DESIGN MANAGER ON THE PROJECT AND SECURE CONCURRENCE FROM ENGINEERING FOLLOWING MODIFICATION PROCESS IDENTIFIED IN ENGINEERING PROCEDURES.

THE STANDARD DRAWINGS DO NOT SUBSTITUTE FOR THE DESIGNER'S USE OF INDEPENDENT ENGINEERING JUDGEMENT AND SOUND ENGINEERING PRACTICE, NOR DO THEY RELIEVE THE DESIGN CONSULTANT FROM THE PROFESSIONAL RESPONSIBILITY OF DEVELOPING AN APPROPRIATE DESIGN AND COMPLYING WITH THE STANDARD OF CARE.

|              |                   |
|--------------|-------------------|
| DRAWING No.: | <b>STD-LZT001</b> |
| REV:         | 0                 |



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Project teams shall refer to their executed project contracts for applicable document versions/revisions.

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|     |         |     |     |     | FILENAME:     | STD-LZI000 |  |  |                       |   |               |  |                |  |   |
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**SITE AND LANDSCAPE MATERIALS AND LAYOUT NOTES:**

- COORDINATE CLEAR OPEN SPACES (MIXING ZONES) WHERE MULTI-MODAL CIRCULATION ROUTES INTERSECT.
- MAINTAIN CLEAR SIGHTLINES THROUGHOUT STATION SITES TO LIMIT OBJECTS TALLER THAN 3 FEET IN HEIGHT AND LOWER THAN 7 FEET.
- PROVIDE BIKE PARKING AND STORAGE OPTIONS NEAR THE PERIMETER OF THE STATION SITES TO REDUCE BIKE TRAFFIC IMMEDIATELY ADJACENT TO THE ENTRY PORTALS.
- PROVIDE LAYOUT GEOMETRY, BUFFER ZONES, SURFACE TEXTURE, AND ADA ACCESSIBLE ELEVATION CHANGES ALONG BIKE ROUTES TO ENCOURAGE SPEED REDUCTION ON STATION SITES.
- AVOID CONTINUOUS FIXED OBJECTS SUCH AS FENCES OR RAILS ALONG BIKE ROUTE BUFFER EDGES TO REDUCE POTENTIAL HAZARDS.

**ARCHITECTURAL ELEMENTS**

- 1A PLATFORM EDGE ABOVE
- 1B TRACK EDGE ON GRADE
- 1C OVERHEAD STRUCTURE
- 1D NOT IN USE
- 1E STRUCTURE BELOW
- 1F FAN / VENT BUILDING
- 1G GUIDEWAY COLUMN
- 1H ROW LINE
- 1J SERVICE AREA
- 1K ELECTRICAL TRANSFORMER
- 1L TRASH ENCLOSURE AREA
- 1M TEMPORARY GENERATOR LOCATION
- 1N STATION ACCESS DRIVE
- 1P SCISSOR LIFT AND UTILITY AREA

**TRANSPORTATION ELEMENTS**

- 2A BUS CLEAR ZONE
- 2B BUS LOADING ZONE
- 2C TRANSIT SHELTER
- 2D START/END OF FLUSH CURB
- 2E SIDEWALK ZONE
- 2F TWO-WAY BIKE PATH
- 2G PARATRANSIT VEHICLE
- 2H PICK-UP / DROP-OFF ZONE
- 2I MICRO-TRANSIT VEHICLE
- 2J ADA PARKING STALL
- 2K ST MAINTENANCE PARKING STALL
- 2L TRANSIT BUS
- 2M PEDESTRIAN CROSSING
- 2N BICYCLE MERGE ZONE
- 2O ST SECURITY PARKING STALL
- 2P PARATRANSIT SHELTER SEE ARCHITECTURAL STANDARD DRAWINGS

**PLANTING ELEMENTS**

- 6A PLANTING AREA
- 6B TREES
- 6C SHRUB AREA
- 6D BIKE PATH BUFFER SHRUB PLANTING MIX
- 6E BIO-RETENTION PLANTING MIX
- 6F SOIL CELL ZONE
- 6G PLANTED BUFFER ZONE

**SITE FURNISHINGS**

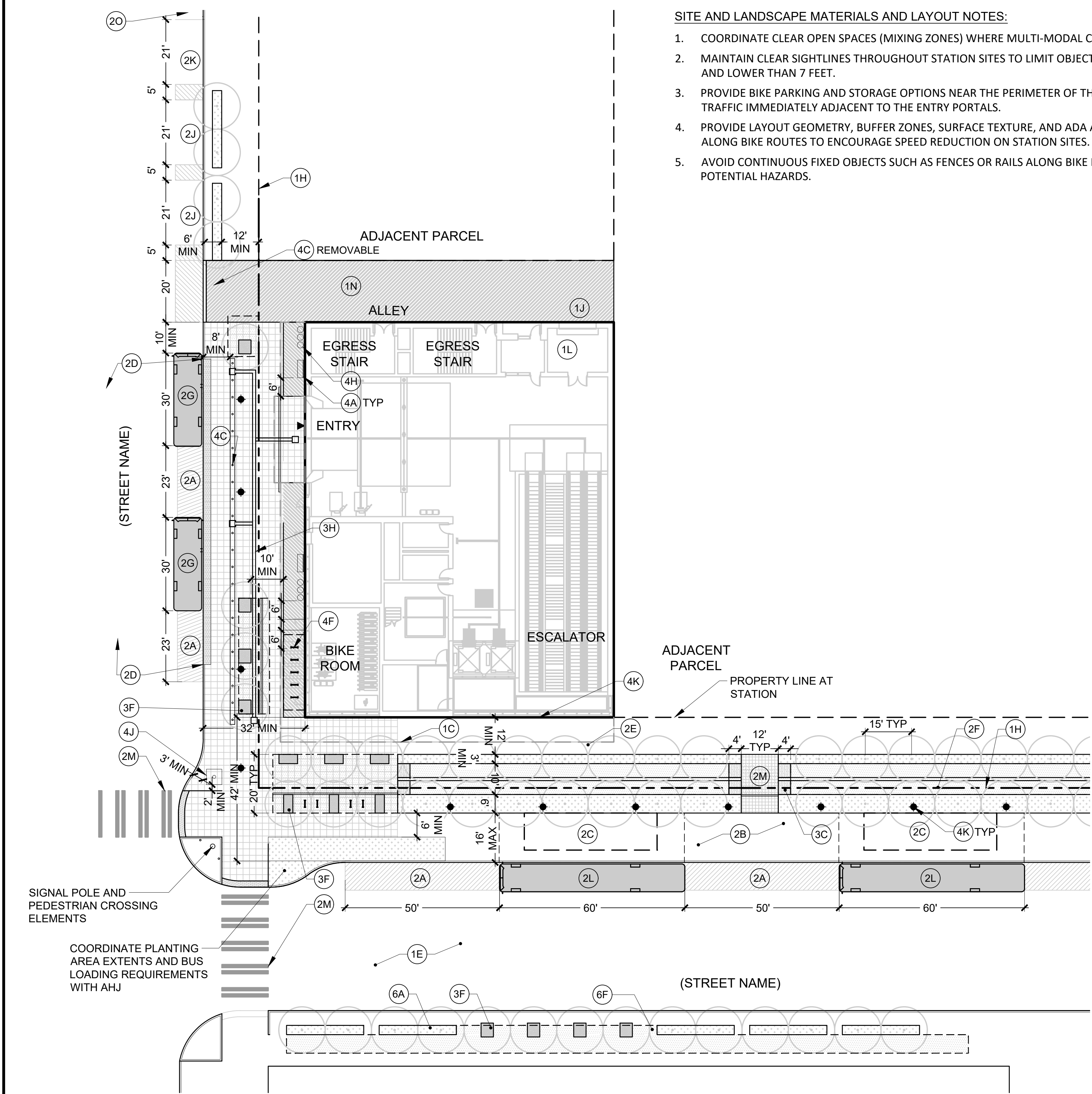
- 4A SITE BENCH
- 4B SITE BENCH EXPANSION OPTION
- 4C BOLLARDS, W/ FTG OUTLINE
- 4D BICYCLE PARKING LOCKER
- 4E BICYCLE PARKING LOCKER EXPANSION OPTIONS
- 4F BICYCLE PARKING RACKS
- 4G BICYCLE PARKING RACKS EXPANSION OPTION
- 4H WASTE AND RECYCLING RECEPTACLE
- 4I ART FOUNDATION LOCATION
- 4J SITE SIGN FOUNDATION
- 4K SITE LIGHT POLE FOUNDATION
- 4L LOCATION WALL SURFACE
- 4M REMOVABLE BOLLARDS

**PEDESTRIAN PAVEMENT TYPES**

- 3A PAVEMENT TYPE 1 - STANDARD SIDEWALK AND PLAZA CONCRETE
- 3B PAVEMENT TYPE 2 - MIXING ZONE CONCRETE (AT STATION ENTRIES)
- 3C PAVEMENT TYPE 3 - TEXTURED CONCRETE (AT TRANSITION AREAS)
- 3D PAVEMENT TYPE 4 - DECORATIVE CONCRETE (TEXTURE OR COLOR)
- 3E PAVEMENT TYPE 5 - TACTILE WARNING (IN ACCESSIBLE ZONES)
- 3F PERMEABLE PAVEMENT (AT TREE PITS AND SOIL CELL ZONES)
- 3G GABION / CONCRETE SITE WALL (AT BIO RETENTION AREAS)
- 3H WAYFINDING PAVERS

**MATERIALS LEGEND**

- CLEAR ZONE
- PAVEMENT TYPE 1 - GENERAL
- PAVEMENT TYPE 2 - MIXING ZONE
- PAVEMENT TYPE 3 - BIKE RUMBLE PAVING
- PAVEMENT TYPE 4 - DECORATIVE CONCRETE
- PAVEMENT TYPE 5 - TACTILE WARNING
- SOIL CELL ZONE
- PLANTING
- BIO RETENTION
- PERMEABLE PAVING



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| No.           | DATE | DSN | CHK     | APP | REVISION                       | TUNNEL STATION - CORNER - MATERIALS-LAYOUT |  |         |  |



**SOUND TRANSIT**  
**STANDARD DRAWINGS**  
LANDSCAPE

SCALE: 1"=20'-0"  
FILENAME: STD-LHP101.DWG  
CONTRACT No.:

DATE: 12/2024

**ARCHITECTURAL ELEMENTS**

- (1A) PLATFORM EDGE ABOVE
- (1B) TRACK EDGE ON GRADE
- (1C) OVERHEAD STRUCTURE
- (1D) NOT IN USE
- (1E) STRUCTURE BELOW
- (1F) FAN / VENT BUILDING
- (1G) GUIDEWAY COLUMN
- (1H) ROW LINE
- (1J) SERVICE AREA
- (1K) ELECTRICAL TRANSFORMER
- (1L) TRASH ENCLOSURE AREA
- (1M) TEMPORARY GENERATOR LOCATION
- (1N) STATION ACCESS DRIVE
- (1P) SCISSOR LIFT AND UTILITY AREA

**PLANTING ELEMENTS**

- (6A) PLANTING AREA
- (6B) TREES
- (6C) NOT IN USE
- (6D) BIKE PATH BUFFER SHRUB PLANTING MIX
- (6E) BIO-RETENTION PLANTING MIX
- (6F) SOIL CELL ZONE
- (6G) PLANTED BUFFER ZONE

**CIVIL ELEMENTS**

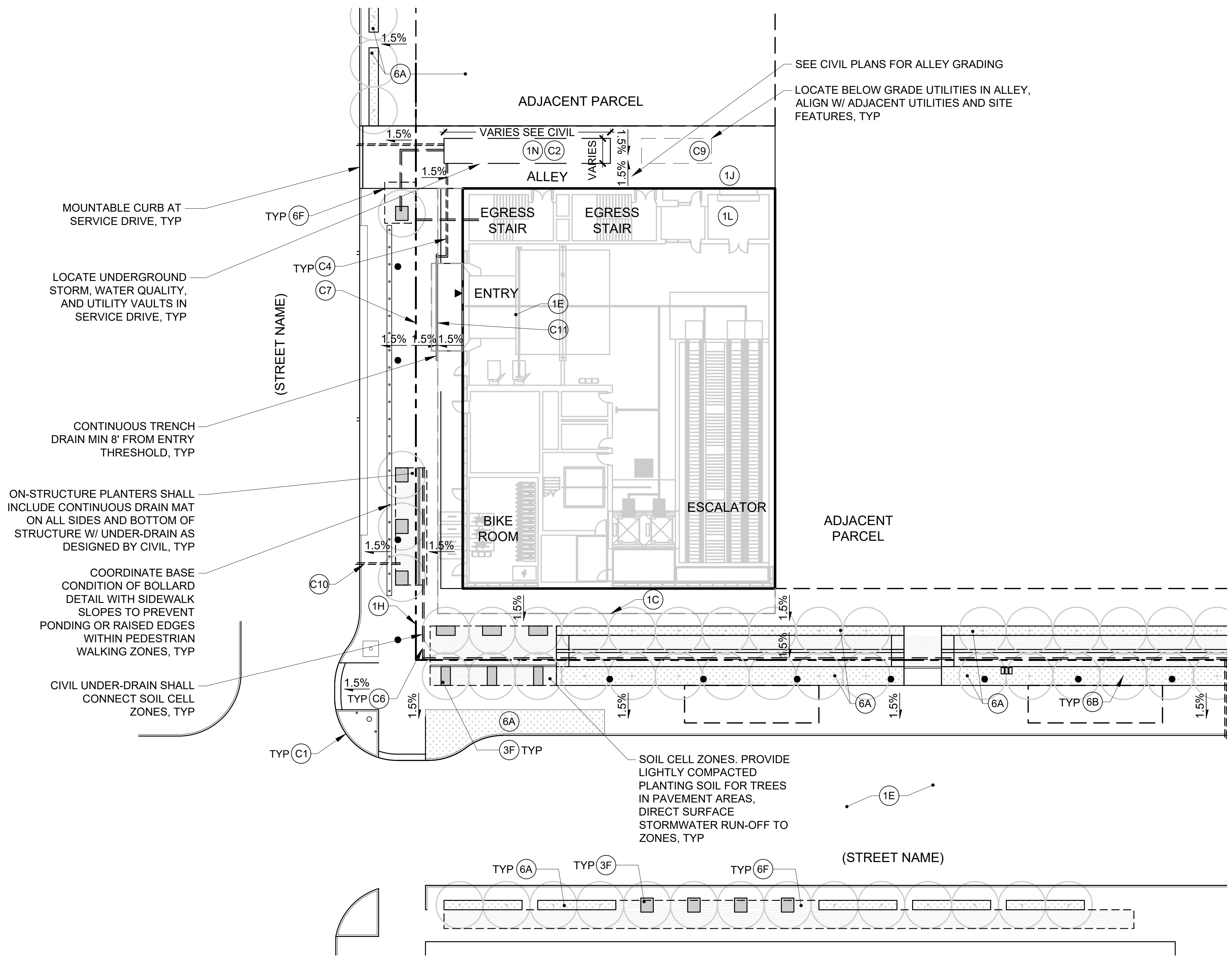
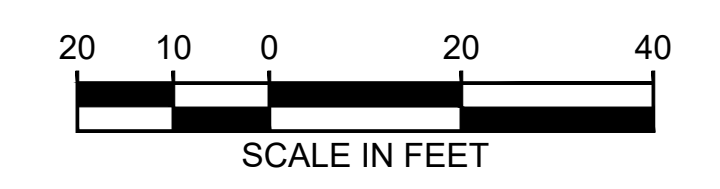
- (C1) CONCRETE CURB
- (C2) UNDERGROUND DETENTION FACILITY ZONE
- (C3) BIORETENTION ZONE
- (C4) CIVIL DRAIN PIPE
- (C5) CLEAN OUTS / VERTICAL MAINTENANCE ACCESS LOCATION
- (C6) UNDERDRAIN PIPE SYSTEM
- (C7) GRADE RIDGE LINE
- (C8) GRADE VALLEY LINE
- (C9) UTILITY VAULT ZONE
- (C10) STORM / SEWER CONNECTION
- (C11) TRENCH DRAIN

**MATERIALS LEGEND**

- CLEAR ZONE
- PAVEMENT TYPE 1 - GENERAL
- PAVEMENT TYPE 2 - MIXING ZONE
- PAVEMENT TYPE 3 - BIKE RUMBLE PAVING
- PAVEMENT TYPE 4 - DECORATIVE CONCRETE
- PAVEMENT TYPE 5 - TACTILE WARNING
- SOIL CELL ZONE
- PLANTING
- BIO RETENTION
- PERMEABLE PAVING

**SITE AND LANDSCAPE GRADING AND DRAINAGE NOTES:**

1. PEDESTRIAN PAVEMENT AREAS SHALL BE GRADED TO SURFACE DRAIN TOWARD PLANTING AND BIORETENTION AREAS, SOIL CELLS ZONES, AND DISPERSION TRENCHES WHEREVER POSSIBLE.
2. REDUCING EXTENTS AND VOLUME OF UNDERGROUND CONCRETE STORMWATER DETENTION AND WATER QUALITY VAULTS SHALL BE PRIORITIZED.
3. TRENCH AND AREA DRAIN FACILITIES DIRECTLY PIPED TO STORMWATER OR COMBINED SEWER SHALL BE USED ONLY WHEN PASSIVE RE-USE IS NOT FEASIBLE.
4. OPEN PLANTING AND BIORETENTION AREAS ARE PREFERRED FOR STORMWATER MITIGATION.
5. SOIL CELL SYSTEMS UNDER PAVEMENTS SHALL BE USED TO SUPPLEMENT PLANTING SOIL VOLUMES, OR TO PROVIDE ACCESS TO SOIL AND WATER FOR TREES IN DENSELY PROGRAMMED OR SMALLER FOOTPRINT SITES, TO PROVIDE TREE CANOPY IN PEDESTRIAN ZONES.
6. SOIL CELL SYSTEMS SHALL BE DETAILED TO PROVIDE EQUIVALENT PROFILE TO NON-INFILTRATING BIO-RETENTION DETAILS AS REQUIRED BY AHJ FOR STORMWATER MITIGATION.
7. LIMIT THE USE OF PERMEABLE PAVEMENTS IN PEDESTRIAN AREAS TO NARROW BANDS TO CAPTURE RUNOFF FOR SOIL CELLS SYSTEMS OR IN TRANSITION AREAS SUCH AS PAVEMENT VALLEYS TO REDUCE MAINTENANCE REQUIREMENTS.
8. DO NOT USE PERMEABLE PAVEMENTS IN VEHICLE TRAFFIC AREAS.
9. STATION HARDSCAPE SLOPES INDICATED ILLUSTRATE DESIGN INTENT FOR AVERAGE CROSS SLOPE. SITE PAVEMENTS SHALL BE MINIMUM 1.0% TO ACHIEVE POSITIVE DRAINAGE AND MAXIMUM 1.9% TO MAINTAIN ADA ACCESSIBLE ROUTES. ROW PAVEMENTS SHALL MEET AHJ REQUIREMENTS.
10. STATION PLANTING AREAS SHALL BE SLOPED MINIMUM 2% TO ACHIEVE SURFACE DRAINAGE, AND MAXIMUM 10% TO REDUCE EXCESSIVE RUNOFF AND SOIL EROSION ISSUES.
11. COORDINATE DRAINAGE FOR AREAS BELOW PAVEMENT AND ON STRUCTURE WITH CIVIL AND PLUMBING.



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**ARCHITECTURAL ELEMENTS**

- 1A PLATFORM EDGE ABOVE
- 1B TRACK EDGE ON GRADE
- 1C OVERHEAD STRUCTURE
- 1D NOT IN USE
- 1E STRUCTURE BELOW
- 1F FAN / VENT BUILDING
- 1G GUIDEWAY COLUMN
- 1H ROW LINE
- 1J SERVICE AREA
- 1K ELECTRICAL TRANSFORMER
- 1L TRASH ENCLOSURE AREA
- 1M TEMPORARY GENERATOR LOCATION
- 1N STATION ACCESS DRIVE
- 1P SCISSOR LIFT AND UTILITY AREA

**CIVIL ELEMENTS**

- C1 CONCRETE CURB
- C2 UNDERGROUND DETENTION FACILITY ZONE
- C3 BIORETENTION ZONE
- C4 CIVIL DRAIN PIPE
- C5 CLEAN OUTS / VERTICAL MAINTENANCE ACCESS LOCATION
- C6 UNDERDRAIN PIPE SYSTEM
- C7 GRADE RIDGE LINE
- C8 GRADE VALLEY LINE
- C9 UTILITY VAULT ZONE
- C10 STORM / SEWER CONNECTION

**MATERIALS LEGEND**

- CLEAR ZONE
- PAVEMENT TYPE 1 - GENERAL
- PAVEMENT TYPE 2 - MIXING ZONE
- PAVEMENT TYPE 3 - BIKE RUMBLE PAVING
- PAVEMENT TYPE 4 - DECORATIVE CONCRETE
- PAVEMENT TYPE 5 - TACTILE WARNING
- SOIL CELL ZONE
- PLANTING
- BIO RETENTION
- PERMEABLE PAVING

**IRRIGATION ELEMENTS**

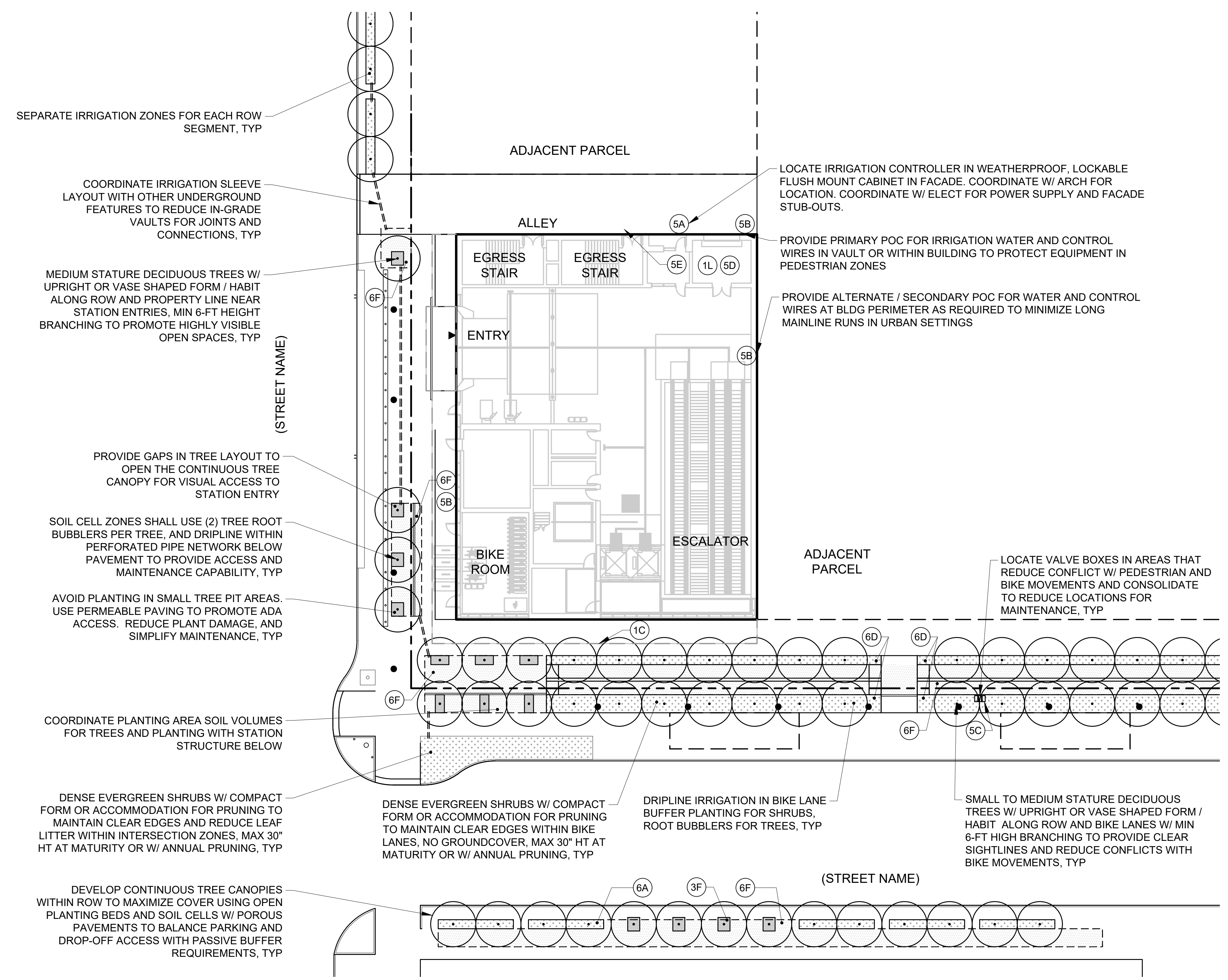
- 5A IRRIGATION CONTROLLER
- 5B IRRIGATION POINT OF CONNECTION (POC)
- 5C IRRIGATION VALVE LOCATIONS
- 5D IRRIGATION METER
- 5E IRRIGATION WEATHER SENSOR
- 5F IRRIGATION SLEEVE
- 5G NOT IN USE

**PLANTING ELEMENTS**

- 6A PLANTING AREA
- 6B TREES
- 6C NOT IN USE
- 6D BIKE PATH BUFFER SHRUB PLANTING MIX
- 6E BIO-RETENTION PLANTING MIX
- 6F SOIL CELL ZONE
- 6G PLANTED BUFFER ZONE

**PLANTING AND IRRIGATION NOTES:**

1. PLANTING SOILS AND SUBGRADES SHALL BE SPECIFIED AND DETAILED TO PROVIDE DEPTHS AND VOLUMES TO ACCOMMODATE TREE AND PLANT REQUIREMENTS, AND TO SATISFY STORMWATER MITIGATION REQUIREMENTS.
2. PLANTING UNDER STATION PLATFORMS AND GUIDEWAYS SHALL BE DESIGNED TO UTILIZE AVAILABLE VOLUMES FOR SMALL STATURE TREES AND UNDERSTORY PLANTS WHERE POSSIBLE. CONSIDER ACCESS TO DAYLIGHT IN SPECIES SELECTION.
3. PLANTING IN BIKE LANE BUFFER AREAS SHALL BE LIMITED TO TREES AND DENSE EVERGREEN SHRUBS. SHRUBS SHALL NOT EXCEED 30" IN HEIGHT AT MATURITY. TREES SHALL HAVE SINGLE LEADER WITH BRANCHING STARTING AT 6 FEET AND NOT EXTEND OVER BIKE LANES WITHIN A TRAVEL ENVELOPE (TBD).
4. PROVIDE WINTER SEASON IRRIGATION FOR TREES AND PLANTS IN RAIN SHADOW AREAS WITH PASSIVE GRAVITY-FED STORM WATER CONVEYANCE AND / OR SEPARATELY OPERATING AUTOMATIC IRRIGATION ZONES.
5. COORDINATE SOIL VOLUME, LOAD, AND DRAINAGE FOR AREAS BELOW PAVEMENT AND ON STRUCTURE WITH ARCH AND STRUCT.



SEPARATE IRRIGATION ZONES FOR EACH ROW SEGMENT, TYP

COORDINATE IRRIGATION SLEEVE LAYOUT WITH OTHER UNDERGROUND FEATURES TO REDUCE IN-GRADE VAULTS FOR JOINTS AND CONNECTIONS, TYP

MEDIUM STATURE DECIDUOUS TREES W/ UPRIGHT OR VASE SHAPED FORM / HABIT ALONG ROW AND PROPERTY LINE NEAR STATION ENTRIES, MIN 6-FT HEIGHT BRANCHING TO PROMOTE HIGHLY VISIBLE OPEN SPACES, TYP

PROVIDE GAPS IN TREE LAYOUT TO OPEN THE CONTINUOUS TREE CANOPY FOR VISUAL ACCESS TO STATION ENTRY

SOIL CELL ZONES SHALL USE (2) TREE ROOT BUBBLERS PER TREE, AND DRIPLINE WITHIN PERFORATED PIPE NETWORK BELOW PAVEMENT TO PROVIDE ACCESS AND MAINTENANCE CAPABILITY, TYP

AVOID PLANTING IN SMALL TREE PIT AREAS. USE PERMEABLE PAVING TO PROMOTE ADA ACCESS. REDUCE PLANT DAMAGE, AND SIMPLIFY MAINTENANCE, TYP

COORDINATE PLANTING AREA SOIL VOLUMES FOR TREES AND PLANTING WITH STATION STRUCTURE BELOW

DENSE EVERGREEN SHRUBS W/ COMPACT FORM OR ACCOMMODATION FOR PRUNING TO MAINTAIN CLEAR EDGES AND REDUCE LEAF LITTER WITHIN INTERSECTION ZONES, MAX 30" HT AT MATURITY OR W/ ANNUAL PRUNING, TYP

DEVELOP CONTINUOUS TREE CANOPIES WITHIN ROW TO MAXIMIZE COVER USING OPEN PLANTING BEDS AND SOIL CELLS W/ POROUS PAVEMENTS TO BALANCE PARKING AND DROP-OFF ACCESS WITH PASSIVE BUFFER REQUIREMENTS, TYP

LOCATE IRRIGATION CONTROLLER IN WEATHERPROOF, LOCKABLE FLUSH MOUNT CABINET IN FACADE. COORDINATE W/ ARCH FOR LOCATION. COORDINATE W/ ELECT FOR POWER SUPPLY AND FACADE STUB-OUTS.

PROVIDE PRIMARY POC FOR IRRIGATION WATER AND CONTROL WIRES IN VAULT OR WITHIN BUILDING TO PROTECT EQUIPMENT IN PEDESTRIAN ZONES

PROVIDE ALTERNATE / SECONDARY POC FOR WATER AND CONTROL WIRES AT BLDG PERIMETER AS REQUIRED TO MINIMIZE LONG MAINLINE RUNS IN URBAN SETTINGS

LOCATE VALVE BOXES IN AREAS THAT REDUCE CONFLICT W/ PEDESTRIAN AND BIKE MOVEMENTS AND CONSOLIDATE TO REDUCE LOCATIONS FOR MAINTENANCE, TYP

DENSE EVERGREEN SHRUBS W/ COMPACT FORM OR ACCOMMODATION FOR PRUNING TO MAINTAIN CLEAR EDGES WITHIN BIKE LANES, NO GROUNDCOVER, MAX 30" HT AT MATURITY OR W/ ANNUAL PRUNING, TYP


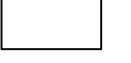




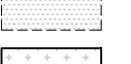



DRIPLINE IRRIGATION IN BIKE LANE BUFFER PLANTING FOR SHRUBS, ROOT BUBBLERS FOR TREES, TYP

SMALL TO MEDIUM STATURE DECIDUOUS TREES W/ UPRIGHT OR VASE SHAPED FORM / HABIT ALONG ROW AND BIKE LANES W/ MIN 6-FT HIGH BRANCHING TO PROVIDE CLEAR SIGHTLINES AND REDUCE CONFLICTS WITH BIKE MOVEMENTS, TYP

01/30/25 | 3:44 PM | JSL:EMAKER E:\00-PROJECTS\LR STA STANDARDS - 20230302-TAKS 05 STATION CONFIGURATIONS\05-CAD\06-ST UPLOAD FINAL\STD-LPP301.DWG

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**MATERIALS LEGEND**

-  CLEAR ZONE
-  PAVEMENT TYPE 1 - GENERAL
-  PAVEMENT TYPE 2 - MIXING ZONE
-  PAVEMENT TYPE 3 - BIKE RUMBLE PAVING
-  PAVEMENT TYPE 4 - DECORATIVE CONCRETE
-  PAVEMENT TYPE 5 - TACTILE WARNING
-  SOIL CELL ZONE
-  PLANTING
-  BIO RETENTION
-  PERMEABLE PAVING

**ARCHITECTURAL ELEMENTS**

- 1A PLATFORM EDGE ABOVE
- 1B TRACK EDGE ON GRADE
- 1C OVERHEAD STRUCTURE
- 1D NOT IN USE
- 1E STRUCTURE BELOW
- 1F FAN / VENT BUILDING
- 1G GUIDEWAY COLUMN
- 1H ROW LINE
- 1J SERVICE AREA
- 1K ELECTRICAL TRANSFORMER
- 1L TRASH ENCLOSURE AREA
- 1M TEMPORARY GENERATOR LOCATION
- 1N STATION ACCESS DRIVE
- 1P SCISSOR LIFT AND UTILITY AREA

**SITE FURNISHINGS**

- 4A SITE BENCH
- 4B SITE BENCH EXPANSION OPTION
- 4C BOLLARDS, W/ FTG OUTLINE
- 4D BICYCLE PARKING LOCKER
- 4E BICYCLE PARKING LOCKER EXPANSION OPTIONS
- 4F BICYCLE PARKING RACKS
- 4G BICYCLE PARKING RACKS EXPANSION OPTION
- 4H WASTE AND RECYCLING RECEPTACLE
- 4I ART FOUNDATION LOCATION
- 4J SITE SIGN FOUNDATION
- 4K SITE LIGHT POLE FOUNDATION
- 4L LOCATION WALL SURFACE
- 4M REMOVABLE BOLLARDS

**TRANSPORTATION ELEMENTS**

- 2A BUS CLEAR ZONE
- 2B BUS LOADING ZONE
- 2C TRANSIT SHELTER
- 2D START/END OF FLUSH CURB
- 2E SIDEWALK ZONE
- 2F TWO-WAY BIKE PATH
- 2G PARATRANSIT VEHICLE
- 2H PICK-UP / DROP-OFF ZONE
- 2I MICRO-TRANSIT VEHICLE
- 2J ADA PARKING STALL
- 2K ST MAINTENANCE PARKING STALL
- 2L TRANSIT BUS
- 2M PEDESTRIAN CROSSING
- 2N BICYCLE MERGE ZONE
- 2O ST SECURITY PARKING STALL
- 2P PARATRANSIT SHELTER SEE ARCHITECTURAL STANDARD DRAWINGS

**PEDESTRIAN PAVEMENT TYPES**

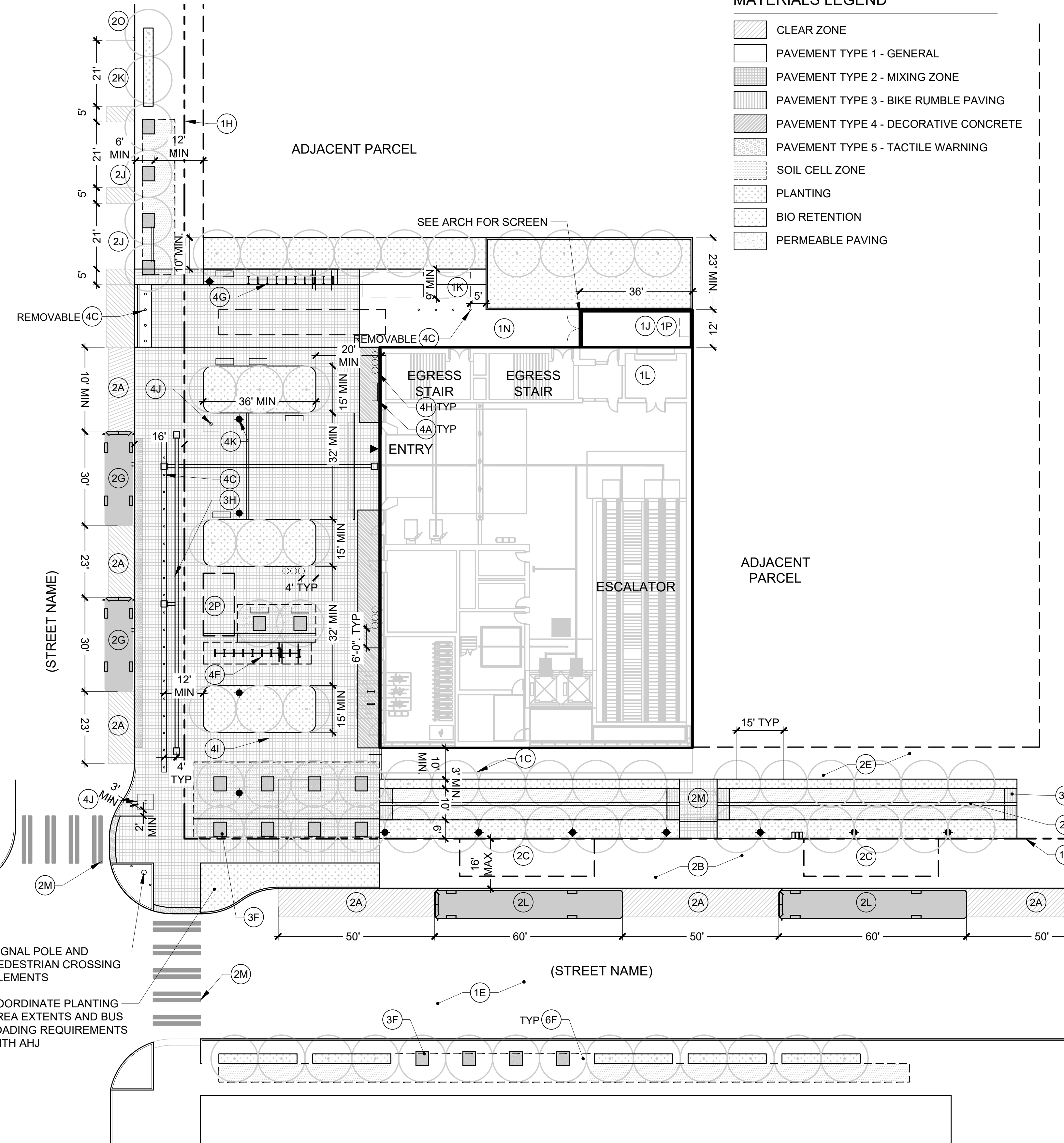
- 3A PAVEMENT TYPE 1 - STANDARD SIDEWALK AND PLAZA CONCRETE
- 3B PAVEMENT TYPE 2 - MIXING ZONE CONCRETE (AT STATION ENTRIES)
- 3C PAVEMENT TYPE 3 - TEXTURED CONCRETE (AT TRANSITION AREAS)
- 3D PAVEMENT TYPE 4 - DECORATIVE CONCRETE (TEXTURE OR COLOR)
- 3E PAVEMENT TYPE 5 - TACTILE WARNING (IN ACCESSIBLE ZONES)
- 3F PERMEABLE PAVEMENT (AT TREE PITS AND SOIL CELL ZONES)
- 3G GABION / CONCRETE SITE WALL (AT BIO RETENTION AREAS)
- 3H WAYFINDING PAVERS

**PLANTING ELEMENTS**

- 6A PLANTING AREA
- 6B TREES
- 6C SHRUB AREA
- 6D BIKE PATH BUFFER SHRUB PLANTING MIX
- 6E BIO-RETENTION PLANTING MIX
- 6F SOIL CELL ZONE
- 6G PLANTED BUFFER ZONE

**SITE AND LANDSCAPE MATERIALS AND LAYOUT NOTES:**

1. COORDINATE CLEAR OPEN SPACES (MIXING ZONES) WHERE MULTI-MODAL CIRCULATION ROUTES INTERSECT.
2. MAINTAIN CLEAR SIGHTLINES THROUGHOUT STATION SITES TO LIMIT OBJECTS TALLER THAN 3 FEET IN HEIGHT AND LOWER THAN 7 FEET.
3. PROVIDE BIKE PARKING AND STORAGE OPTIONS NEAR THE PERIMETER OF THE STATION SITES TO REDUCE BIKE TRAFFIC IMMEDIATELY ADJACENT TO THE ENTRY PORTALS.
4. PROVIDE LAYOUT GEOMETRY, BUFFER ZONES, SURFACE TEXTURE, AND ADA ACCESSIBLE ELEVATION CHANGES ALONG BIKE ROUTES TO ENCOURAGE SPEED REDUCTION ON STATION SITES.
5. AVOID CONTINUOUS FIXED OBJECTS SUCH AS FENCES OR RAILS ALONG BIKE ROUTE BUFFER EDGES TO REDUCE POTENTIAL HAZARDS.



COORDINATE W/  
CONTINUATION OF BIKE  
LANES BY OTHERS WITH  
AHJ

SIGNAL POLE AND  
PEDESTRIAN CROSSING  
ELEMENTS

COORDINATE PLANTING  
AREA EXTENTS AND BUS  
LOADING REQUIREMENTS  
WITH AHJ


01/30/25 | 3:45 PM | JSLEAMAKER  
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**SOUND TRANSIT  
STANDARD DRAWINGS  
LANDSCAPE**

TUNNEL STATION - PLAZA - MATERIALS AND LAYOUT

|              |                   |
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| DRAWING No.: | <b>STD-LHP102</b> |
| FACILITY ID: |                   |
| SHEET No.:   | REV: 0            |

**ARCHITECTURAL ELEMENTS**

- (1A) PLATFORM EDGE ABOVE
- (1B) TRACK EDGE ON GRADE
- (1C) OVERHEAD STRUCTURE
- (1D) NOT IN USE
- (1E) STRUCTURE BELOW
- (1F) FAN / VENT BUILDING
- (1G) GUIDEWAY COLUMN
- (1H) ROW LINE
- (1J) SERVICE AREA
- (1K) ELECTRICAL TRANSFORMER
- (1L) TRASH ENCLOSURE AREA
- (1M) TEMPORARY GENERATOR LOCATION
- (1N) STATION ACCESS DRIVE
- (1P) SCISSOR LIFT AND UTILITY AREA

**PLANTING ELEMENTS**

- (6A) PLANTING AREA
- (6B) TREES
- (6C) NOT IN USE
- (6D) BIKE PATH BUFFER SHRUB PLANTING MIX
- (6E) BIO-RETENTION PLANTING MIX
- (6F) SOIL CELL ZONE
- (6G) PLANTED BUFFER ZONE

**CIVIL ELEMENTS**

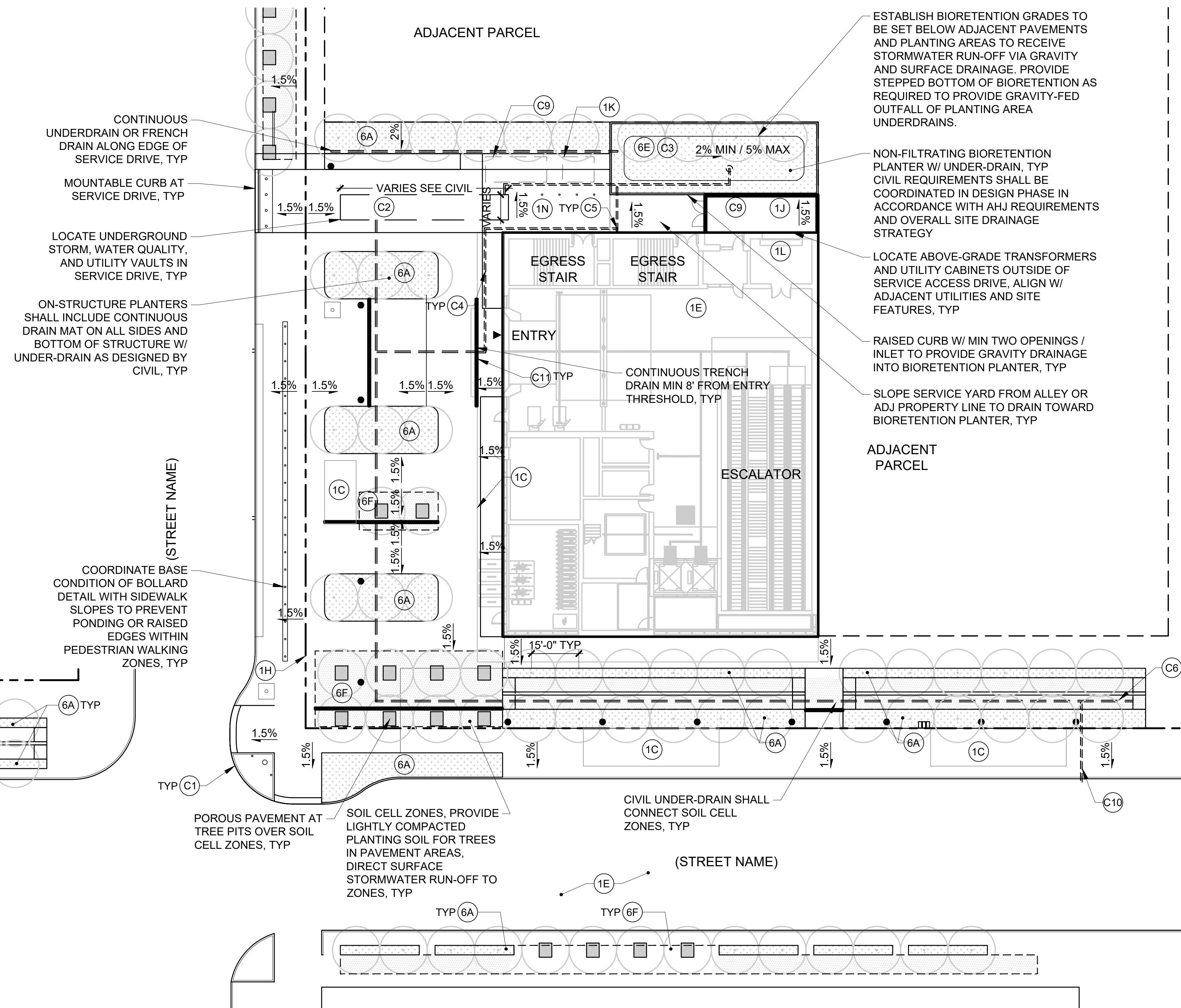
- (C1) CONCRETE CURB
- (C2) UNDERGROUND DETENTION FACILITY ZONE
- (C3) BIORETENTION ZONE
- (C4) CIVIL DRAIN PIPE
- (C5) CLEAN OUTS / VERTICAL MAINTENANCE ACCESS LOCATION
- (C6) UNDERDRAIN PIPE SYSTEM
- (C7) GRADE RIDGE LINE
- (C8) GRADE VALLEY LINE
- (C9) UTILITY VAULT ZONE
- (C10) STORM / SEWER CONNECTION
- (C11) TRENCH DRAIN

**MATERIALS LEGEND**

- CLEAR ZONE
- PAVEMENT TYPE 1 - GENERAL
- PAVEMENT TYPE 2 - MIXING ZONE
- PAVEMENT TYPE 3 - BIKE RUMBLE PAVING
- PAVEMENT TYPE 4 - DECORATIVE CONCRETE
- PAVEMENT TYPE 5 - TACTILE WARNING
- SOIL CELL ZONE
- PLANTING
- BIO RETENTION
- PERMEABLE PAVING

**SITE AND LANDSCAPE GRADING AND DRAINAGE NOTES:**

1. PEDESTRIAN PAVEMENT AREAS SHALL BE GRADED TO SURFACE DRAIN TOWARD PLANTING AND BIORETENTION AREAS, SOIL CELLS ZONES, AND DISPERSION TRENCHES WHEREVER POSSIBLE.
2. REDUCING EXTENTS AND VOLUME OF UNDERGROUND CONCRETE STORMWATER DETENTION AND WATER QUALITY VAULTS SHALL BE PRIORITIZED.
3. TRENCH AND AREA DRAIN FACILITIES DIRECTLY PIPED TO STORMWATER OR COMBINED SEWER SHALL BE USED ONLY WHEN PASSIVE RE-USE IS NOT FEASIBLE.
4. OPEN PLANTING AND BIORETENTION AREAS ARE PREFERRED FOR STORMWATER MITIGATION.
5. SOIL CELL SYSTEMS UNDER PAVEMENTS SHALL BE USED TO SUPPLEMENT PLANTING SOIL VOLUMES, OR TO PROVIDE ACCESS TO SOIL AND WATER FOR TREES IN DENSELY PROGRAMMED OR SMALLER FOOTPRINT SITES, TO PROVIDE TREE CANOPY IN PEDESTRIAN ZONES.
6. SOIL CELL SYSTEMS SHALL BE DETAILED TO PROVIDE EQUIVALENT PROFILE TO NON-INFILTRATING BIO-RETENTION DETAILS AS REQUIRED BY AHJ FOR STORMWATER MITIGATION.
7. LIMIT THE USE OF PERMEABLE PAVEMENTS IN PEDESTRIAN AREAS TO NARROW BANDS TO CAPTURE RUNOFF FOR SOIL CELLS SYSTEMS OR IN TRANSITION AREAS SUCH AS PAVEMENT VALLEYS TO REDUCE MAINTENANCE REQUIREMENTS.
8. DO NOT USE PERMEABLE PAVEMENTS IN VEHICLE TRAFFIC AREAS.
9. STATION HARDSCAPE SLOPES INDICATED ILLUSTRATE DESIGN INTENT FOR AVERAGE CROSS SLOPE. SITE PAVEMENTS SHALL BE MINIMUM 1.0% TO ACHIEVE POSITIVE DRAINAGE AND MAXIMUM 1.9% TO MAINTAIN ADA ACCESSIBLE ROUTES. ROW PAVEMENTS SHALL MEET AHJ REQUIREMENTS.
10. STATION PLANTING AREAS SHALL BE SLOPED MINIMUM 2% TO ACHIEVE SURFACE DRAINAGE, AND MAXIMUM 10% TO REDUCE EXCESSIVE RUNOFF AND SOIL EROSION ISSUES.
11. COORDINATE DRAINAGE FOR AREAS BELOW PAVEMENT AND ON STRUCTURE WITH CIVIL AND PLUMBING.



01/30/25 | 3:45 PM | JSLEAMAKER E:\00-PROJECTS\LR STA STANDARDS - 20250302-TAKS 05 STATION CONFIGURATIONS\CAD\06-ST UPLOAD FINAL\STD-LGP202.DWG

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DENSE EVERGREEN AND / OR DECIDUOUS SHRUBS, MAX 30" HT AT MATURITY OR W/ ANNUAL PRUNING, TYP

SEPARATE IRRIGATION ZONES FOR EACH ROW SEGMENT, TYP

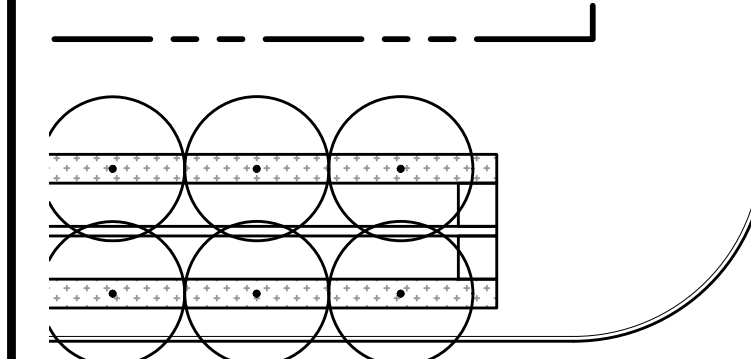
COORDINATE IRRIGATION SLEEVE LAYOUT WITH OTHER UNDERGROUND FEATURES TO REDUCE IN-GRADE VAULTS FOR JOINTS AND CONNECTIONS, TYP

MEDIUM STATURE DECIDUOUS TREES W/ UPRIGHT OR VASE SHAPED FORM / HABIT WITHIN PLAZAS NEAR STATION ENTRIES, MIN 6-FT HEIGHT BRANCHING TO PROMOTE HIGHLY VISIBLE OPEN SPACES, TYP

PROVIDE GAPS IN TREE LAYOUT TO OPEN THE CONTINUOUS TREE CANOPY FOR VISUAL ACCESS TO STATION ENTRY

SOIL CELL ZONES SHALL USE (2) TREE ROOT BUBBLERS PER TREE, AND DRIPLINE WITHIN PERFORATED PIPE NETWORK BELOW PAVEMENT TO PROVIDE ACCESS AND MAINTENANCE CAPABILITY, TYP

AVOID PLANTING IN SMALL TREE PITS. USE PERMEABLE PAVING AT TREE PIT AREAS TO PROMOTE ADA ACCESS, REDUCE PLANT DAMAGE AND MAINTENANCE, TYP

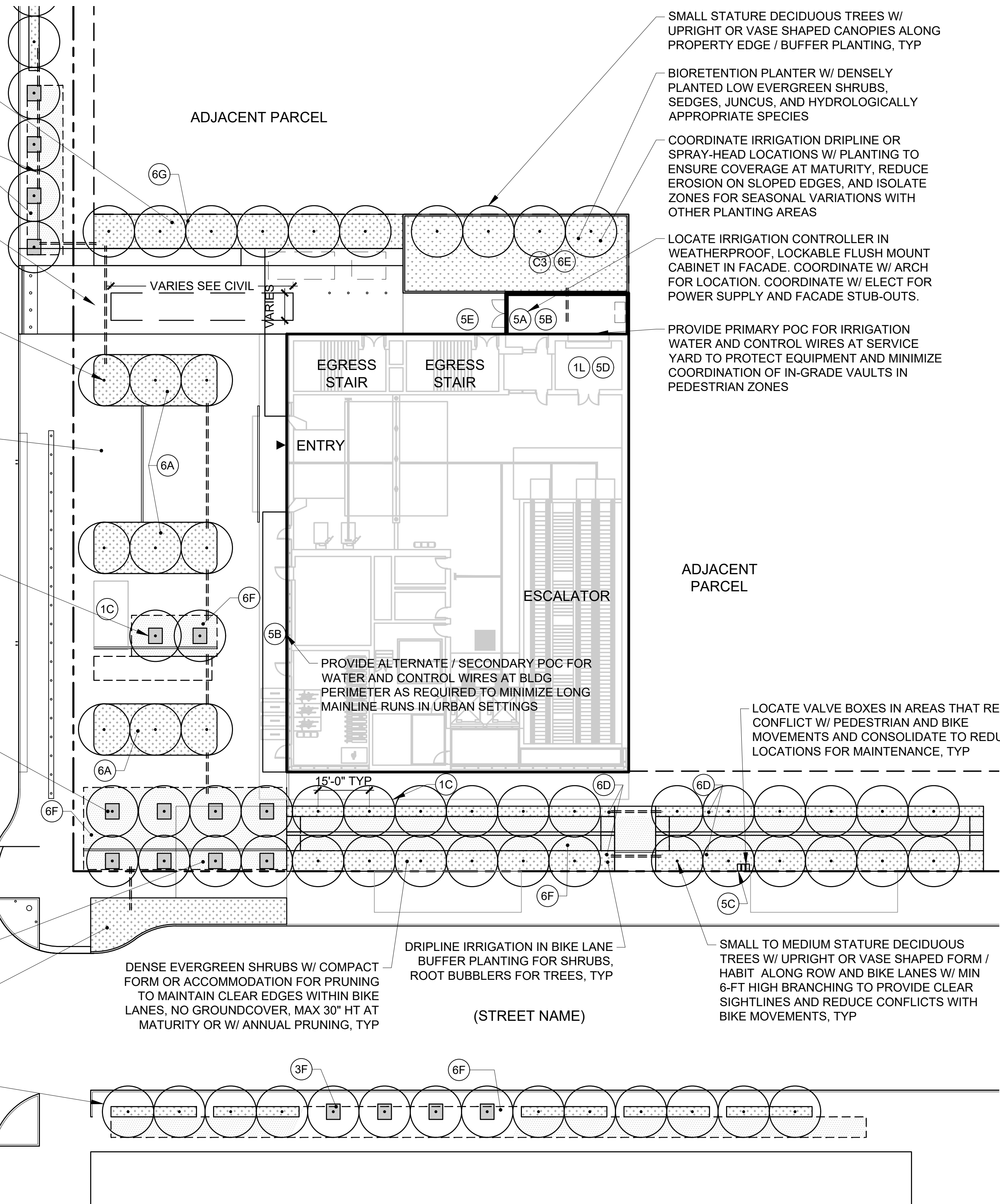


COORDINATE PLANTING AREA SOIL VOLUMES FOR TREES AND PLANTING WITH STATION STRUCTURE BELOW

DENSE EVERGREEN SHRUBS W/ COMPACT FORM OR ACCOMMODATION FOR PRUNING TO MAINTAIN CLEAR EDGES AND REDUCE LEAF LITTER WITHIN INTERSECTION ZONES, MAX 30" HT AT MATURITY OR W/ ANNUAL PRUNING, TYP

DEVELOP CONTINUOUS TREE CANOPIES WITHIN ROW TO MAXIMIZE COVER USING OPEN PLANTING BEDS AND SOIL CELLS W/ POROUS PAVEMENTS TO BALANCE PARKING AND DROP-OFF ACCESS WITH PASSIVE BUFFER REQUIREMENTS, TYP

ADJACENT PARCEL



SMALL STATURE DECIDUOUS TREES W/ UPRIGHT OR VASE SHAPED CANOPIES ALONG PROPERTY EDGE / BUFFER PLANTING, TYP

BIORETENTION PLANTER W/ DENSELY PLANTED LOW EVERGREEN SHRUBS, SEDGES, JUNCUS, AND HYDROLOGICALLY APPROPRIATE SPECIES

COORDINATE IRRIGATION DRIPLINE OR SPRAY-HEAD LOCATIONS W/ PLANTING TO ENSURE COVERAGE AT MATURITY, REDUCE EROSION ON SLOPED EDGES, AND ISOLATE ZONES FOR SEASONAL VARIATIONS WITH OTHER PLANTING AREAS

LOCATE IRRIGATION CONTROLLER IN WEATHERPROOF, LOCKABLE FLUSH MOUNT CABINET IN FACADE. COORDINATE W/ ARCH FOR LOCATION. COORDINATE W/ ELECT FOR POWER SUPPLY AND FACADE STUB-OUTS.

PROVIDE PRIMARY POC FOR IRRIGATION WATER AND CONTROL WIRES AT SERVICE YARD TO PROTECT EQUIPMENT AND MINIMIZE COORDINATION OF IN-GRADE VAULTS IN PEDESTRIAN ZONES

ADJACENT PARCEL

PROVIDE ALTERNATE / SECONDARY POC FOR WATER AND CONTROL WIRES AT BLDG PERIMETER AS REQUIRED TO MINIMIZE LONG MAINLINE RUNS IN URBAN SETTINGS

LOCATE VALVE BOXES IN AREAS THAT REDUCE CONFLICT W/ PEDESTRIAN AND BIKE MOVEMENTS AND CONSOLIDATE TO REDUCE LOCATIONS FOR MAINTENANCE, TYP

DRIPLINE IRRIGATION IN BIKE LANE BUFFER PLANTING FOR SHRUBS, ROOT BUBBLERS FOR TREES, TYP

SMALL TO MEDIUM STATURE DECIDUOUS TREES W/ UPRIGHT OR VASE SHAPED FORM / HABIT ALONG ROW AND BIKE LANES W/ MIN 6-FT HIGH BRANCHING TO PROVIDE CLEAR SIGHTLINES AND REDUCE CONFLICTS WITH BIKE MOVEMENTS, TYP

(STREET NAME)

**ARCHITECTURAL ELEMENTS**

- (1A) PLATFORM EDGE ABOVE
- (1B) TRACK EDGE ON GRADE
- (1C) OVERHEAD STRUCTURE
- (1D) NOT IN USE
- (1E) STRUCTURE BELOW
- (1F) FAN / VENT BUILDING
- (1G) GUIDEWAY COLUMN
- (1H) ROW LINE
- (1J) SERVICE AREA
- (1K) ELECTRICAL TRANSFORMER
- (1L) TRASH ENCLOSURE AREA
- (1M) TEMPORARY GENERATOR LOCATION
- (1N) STATION ACCESS DRIVE
- (1P) SCISSOR LIFT AND UTILITY AREA

**CIVIL ELEMENTS**

- (C1) CONCRETE CURB
- (C2) UNDERGROUND DETENTION FACILITY ZONE
- (C3) BIORETENTION ZONE
- (C4) CIVIL DRAIN PIPE
- (C5) CLEAN OUTS / VERTICAL MAINTENANCE ACCESS LOCATION
- (C6) UNDERDRAIN PIPE SYSTEM
- (C7) GRADE RIDGE LINE
- (C8) GRADE VALLEY LINE
- (C9) UTILITY VAULT ZONE
- (C10) STORM / SEWER CONNECTION

**IRRIGATION ELEMENTS**

- (5A) IRRIGATION CONTROLLER
- (5B) IRRIGATION POINT OF CONNECTION (POC)
- (5C) IRRIGATION VALVE LOCATIONS
- (5D) IRRIGATION METER
- (5E) IRRIGATION WEATHER SENSOR
- (5F) IRRIGATION SLEEVE
- (5G) NOT IN USE

**MATERIALS LEGEND**

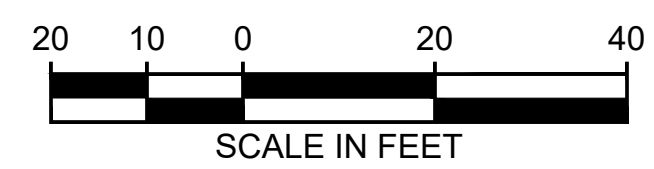
- CLEAR ZONE
- PAVEMENT TYPE 1 - GENERAL
- PAVEMENT TYPE 2 - MIXING ZONE
- PAVEMENT TYPE 3 - BIKE RUMBLE PAVING
- PAVEMENT TYPE 4 - DECORATIVE CONCRETE
- PAVEMENT TYPE 5 - TACTILE WARNING
- SOIL CELL ZONE
- PLANTING
- BIO RETENTION
- PERMEABLE PAVING

**PLANTING ELEMENTS**

- (6A) PLANTING AREA
- (6B) TREES
- (6C) NOT IN USE
- (6D) BIKE PATH BUFFER SHRUB PLANTING MIX
- (6E) BIO-RETENTION PLANTING MIX
- (6F) SOIL CELL ZONE
- (6G) PLANTED BUFFER ZONE

**PLANTING AND IRRIGATION NOTES:**

- PLANTING SOILS AND SUBGRADES SHALL BE SPECIFIED AND DETAILED TO PROVIDE DEPTHS AND VOLUMES TO ACCOMMODATE TREE AND PLANT REQUIREMENTS, AND TO SATISFY STORMWATER MITIGATION REQUIREMENTS.
- PLANTING UNDER STATION PLATFORMS AND GUIDEWAYS SHALL BE DESIGNED TO UTILIZE AVAILABLE VOLUMES FOR SMALL STATURE TREES AND UNDERSTORY PLANTS WHERE POSSIBLE. CONSIDER ACCESS TO DAYLIGHT IN SPECIES SELECTION.
- PLANTING IN BIKE LANE BUFFER AREAS SHALL BE LIMITED TO TREES AND DENSE EVERGREEN SHRUBS. SHRUBS SHALL NOT EXCEED 30" IN HEIGHT AT MATURITY. TREES SHALL HAVE SINGLE LEADER WITH BRANCHING STARTING AT 6 FEET AND NOT EXTEND OVER BIKE LANES WITHIN A TRAVEL ENVELOPE (TBD).
- PROVIDE WINTER SEASON IRRIGATION FOR TREES AND PLANTS IN RAIN SHADOW AREAS WITH PASSIVE GRAVITY-FED STORM WATER CONVEYANCE AND / OR SEPARATELY OPERATING AUTOMATIC IRRIGATION ZONES.
- COORDINATE SOIL VOLUME, LOAD, AND DRAINAGE FOR AREAS BELOW PAVEMENT AND ON STRUCTURE WITH ARCH AND STRUCT.



01/30/25 | 3:44 PM | JSLEAMAKER E:\00-PROJECTS\LR STA STANDARDS - 20230302-TAKS 05 STATION CONFIGURATIONS\CAD\06-ST UPLOAD FINAL\STD-L-PP302.DWG

|              |         |     |     |     |               |  |  |  |  |                          |  |  |  |  |   |  |  |  |  |                                |  |  |  |  |
|--------------|---------|-----|-----|-----|---------------|--|--|--|--|--------------------------|--|--|--|--|---|--|--|--|--|--------------------------------|--|--|--|--|
| DESIGNED BY: |         |     |     |     | SUBMITTED BY: |  |  |  |  | SCALE: 1"=20'-0"         |  |  |  |  | <b>SOUND TRANSIT</b><br><b>STANDARD DRAWINGS</b><br>LANDSCAPE<br>TUNNEL STATION - PLAZA - PLANTING AND IRRIGATION |  |  |  |  | DRAWING No.: <b>STD-LPP302</b> |  |  |  |  |
| DRAWN BY:    |         |     |     |     | DATE:         |  |  |  |  | FILENAME: STD-LPP302.DWG |  |  |  |  |   |  |  |  |  | FACILITY ID:                   |  |  |  |  |
| CHECKED BY:  |         |     |     |     | REVIEWED BY:  |  |  |  |  | CONTRACT No.:            |  |  |  |  | SHEET No.:  |  |  |  |  |                                |  |  |  |  |
| APPROVED BY: |         |     |     |     | DATE:         |  |  |  |  | DATE:                    |  |  |  |  | REV: 0  |  |  |  |  |                                |  |  |  |  |
| No.          | DATE    | DSN | CHK | APP | REVISION      |  |  |  |  |                          |  |  |  |  |   |  |  |  |  |                                |  |  |  |  |
| 0            | 12/2024 |     |     |     | NEW DRAWING   |  |  |  |  |                          |  |  |  |  |   |  |  |  |  |                                |  |  |  |  |

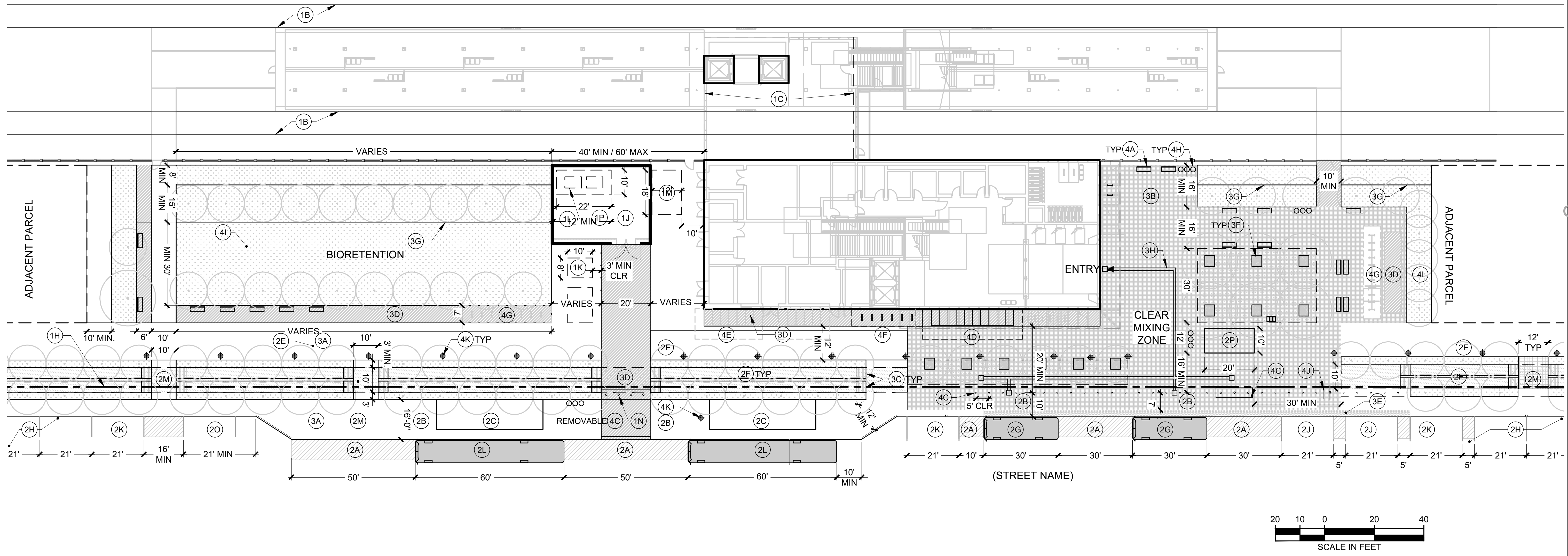
| ARCHITECTURAL ELEMENTS           | TRANSPORTATION ELEMENTS                                    | PEDESTRIAN PAVEMENT TYPES                                      | SITE FURNISHINGS                            |
|----------------------------------|--|--|---|
| 1A PLATFORM EDGE ABOVE           | 2A BUS CLEAR ZONE  | 3A PAVEMENT TYPE 1 - STANDARD SIDEWALK AND PLAZA CONCRETE      | 4A SITE BENCH                               |
| 1B TRACK EDGE ON GRADE           | 2B BUS LOADING ZONE  | 3B PAVEMENT TYPE 2 - MIXING ZONE CONCRETE (AT STATION ENTRIES) | 4B SITE BENCH EXPANSION OPTION              |
| 1C OVERHEAD STRUCTURE            | 2C TRANSIT SHELTER   | 3C PAVEMENT TYPE 3 - TEXTURED CONCRETE (AT TRANSITION AREAS)   | 4C BOLLARDS, W/ FTG OUTLINE                 |
| 1D NOT IN USE                    | 2D START/END OF FLUSH CURB                                 | 3D PAVEMENT TYPE 4 - DECORATIVE CONCRETE (TEXTURE OR COLOR)    | 4D BICYCLE PARKING LOCKER                   |
| 1E STRUCTURE BELOW               | 2E SIDEWALK ZONE   | 3E PAVEMENT TYPE 5 - TACTILE WARNING (IN ACCESSIBLE ZONES)     | 4E BICYCLE PARKING LOCKER EXPANSION OPTIONS |
| 1F NOT IN USE                    | 2F TWO-WAY BIKE PATH                                       | 3F PERMEABLE PAVEMENT (AT TREE PITS AND SOIL CELL ZONES)       | 4F BICYCLE PARKING RACKS                    |
| 1G GUIDEWAY COLUMN               | 2G PARATRANSIT VEHICLE                                     | 3G GABION / CONCRETE SITE WALL (AT BIO RETENTION AREAS)        | 4G BICYCLE PARKING RACKS EXPANSION OPTION   |
| 1H ROW LINE                      | 2H PICK-UP / DROP-OFF ZONE                                 | 3H WAYFINDING PAVERS   | 4H WASTE AND RECYCLING RECEPTACLE           |
| 1J SERVICE AREA                  | 2I MICRO-TRANSIT VEHICLE                                   |  | 4I ART FOUNDATION LOCATION                  |
| 1K ELECTRICAL TRANSFORMER        | 2J ADA PARKING STALL                                       |  | 4J SITE SIGN FOUNDATION                     |
| 1L TRASH ENCLOSURE AREA          | 2K ST MAINTENANCE PARKING STALL                            |  | 4K SITE LIGHT POLE FOUNDATION               |
| 1M TEMPORARY GENERATOR LOCATION  | 2L TRANSIT BUS   |  | 4L LOCATION WALL SURFACE                    |
| 1N STATION ACCESS DRIVE          | 2M PEDESTRIAN CROSSING                                     |  | 4M REMOVABLE BOLLARDS                       |
| 1P SCISSOR LIFT AND UTILITY AREA | 2N BICYCLE MERGE ZONE                                      |  |   |
|                                  | 2O ST SECURITY PARKING STALL                               |  |   |
|                                  | 2P PARATRANSIT SHELTER SEE ARCHITECTURAL STANDARD DRAWINGS |  |   |

**SITE AND LANDSCAPE MATERIALS AND LAYOUT NOTES:**

- COORDINATE CLEAR OPEN SPACES (MIXING ZONES) WHERE MULTI-MODAL CIRCULATION ROUTES INTERSECT.
- MAINTAIN CLEAR SIGHTLINES THROUGHOUT STATION SITES TO LIMIT OBJECTS TALLER THAN 3 FEET IN HEIGHT AND LOWER THAN 7 FEET.
- PROVIDE BIKE PARKING AND STORAGE OPTIONS NEAR THE PERIMETER OF THE STATION SITES TO REDUCE BIKE TRAFFIC IMMEDIATELY ADJACENT TO THE ENTRY PORTALS.
- PROVIDE LAYOUT GEOMETRY, BUFFER ZONES, SURFACE TEXTURE, AND ADA ACCESSIBLE ELEVATION CHANGES ALONG BIKE ROUTES TO ENCOURAGE SPEED REDUCTION ON STATION SITES.
- AVOID CONTINUOUS FIXED OBJECTS SUCH AS FENCES OR RAILS ALONG BIKE ROUTE BUFFER EDGES TO REDUCE POTENTIAL HAZARDS.

**MATERIALS LEGEND**

|  |                                       |
|--|---------------------------------------|
|  | CLEAR ZONE                            |
|  | PAVEMENT TYPE 1 - GENERAL PAVING      |
|  | PAVEMENT TYPE 2 - MIXING ZONE         |
|  | PAVEMENT TYPE 3 - BIKE RUMBLE PAVING  |
|  | PAVEMENT TYPE 4 - DECORATIVE CONCRETE |
|  | PAVEMENT TYPE 5 - TACTILE WARNING     |
|  | SOIL CELL ZONE                        |
|  | PLANTING                              |
|  | BIORETENTION                          |
|  | PERMEABLE PAVING                      |



01/30/25 | 3:45 PM | JSLEAMAKER E:\00-PROJECTS\ST LR STA STANDARDS - 202303\02-TAKS 05 STATION CONFIGURATIONS\05-CAD\05-ST UPLOAD FINAL\STD-LHP103.DWG

| DESIGNED BY:   |         |     |                          |     | DRAWING No.: <b>STD-LHP103</b>                   |      |     |               |     |          |   |         |  |  |  |             |  |  |  |  |  |
|--|---------|-----|--------------------------|-----|--|------|-----|---------------|-----|----------|---|---------|--|--|--|-------------|--|--|--|--|--|
| DRAWN BY:  |         |     |                          |     | FACILITY ID:                                     |      |     |               |     |          |   |         |  |  |  |             |  |  |  |  |  |
| CHECKED BY:  |         |     |                          |     | SHEET No.: REV: <b>0</b>                         |      |     |               |     |          |   |         |  |  |  |             |  |  |  |  |  |
| APPROVED BY:   |         |     |                          |     | AT-GRADE STATION - ON ROW - MATERIALS AND LAYOUT |      |     |               |     |          |   |         |  |  |  |             |  |  |  |  |  |
| SUBMITTED BY:  |         |     | DATE:                    |     | REVIEWED BY:                                     |      |     | DATE:         |     |          |   |         |  |  |  |             |  |  |  |  |  |
| SCALE: 1"=20'-0"   |         |     | FILENAME: STD-LHP103.DWG |     | CONTRACT No.:                                    |      |     | DATE: 12/2024 |     |          |   |         |  |  |  |             |  |  |  |  |  |
|  |         |     |                          |     |  |      |     |               |     |          |   |         |  |  |  |             |  |  |  |  |  |
| <table border="1"> <thead> <tr> <th>No.</th> <th>DATE</th> <th>DSN</th> <th>CHK</th> <th>APP</th> <th>REVISION</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>12/2024</td> <td></td> <td></td> <td></td> <td>NEW DRAWING</td> </tr> </tbody> </table> |         |     |                          |     | No.  | DATE | DSN | CHK           | APP | REVISION | 0 | 12/2024 |  |  |  | NEW DRAWING |  |  |  |  |  |
| No.  | DATE    | DSN | CHK                      | APP | REVISION   |      |     |               |     |          |   |         |  |  |  |             |  |  |  |  |  |
| 0  | 12/2024 |     |                          |     | NEW DRAWING                                      |      |     |               |     |          |   |         |  |  |  |             |  |  |  |  |  |

**ARCHITECTURAL ELEMENTS**

- 1A PLATFORM EDGE ABOVE
- 1B TRACK EDGE ON GRADE
- 1C OVERHEAD STRUCTURE
- 1D NOT IN USE
- 1E STRUCTURE BELOW
- 1F NOT IN USE
- 1G GUIDEWAY COLUMN
- 1H ROW LINE
- 1J SERVICE AREA
- 1K ELECTRICAL TRANSFORMER
- 1L TRASH ENCLOSURE AREA
- 1M TEMPORARY GENERATOR LOCATION
- 1N STATION ACCESS DRIVE
- 1P SCISSOR LIFT AND UTILITY AREA

**PLANTING ELEMENTS**

- 6A PLANTING AREA
- 6B TREES
- 6C NOT IN USE
- 6D BIKE PATH BUFFER SHRUB PLANTING MIX
- 6E BIORETENTION PLANTING MIX
- 6F SOIL CELL ZONE
- 6G PLANTED BUFFER ZONE

**CIVIL ELEMENTS**

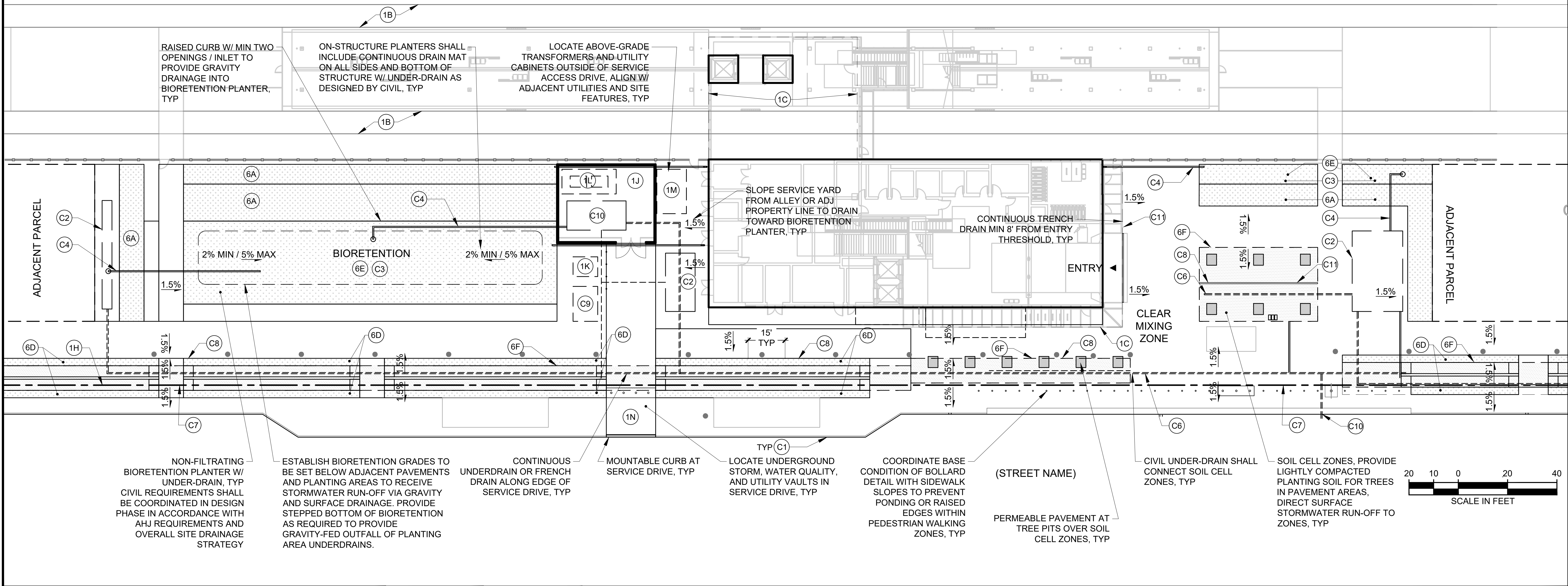
- C1 CONCRETE CURB
- C2 UNDERGROUND DETENTION FACILITY ZONE
- C3 BIORETENTION ZONE
- C4 CIVIL DRAIN PIPE
- C5 CLEAN OUTS / VERTICAL MAINTENANCE ACCESS LOCATION
- C6 UNDERDRAIN PIPE SYSTEM
- C7 GRADE RIDGE LINE
- C8 GRADE VALLEY LINE
- C9 UTILITY VAULT ZONE
- C10 STORM / SEWER CONNECTION
- C11 TRENCH DRAIN

**MATERIALS LEGEND**

- CLEAR ZONE
- PAVEMENT TYPE 1 - GENERAL PAVING
- PAVEMENT TYPE 2 - MIXING ZONE
- PAVEMENT TYPE 3 - BIKE RUMBLE PAVING
- PAVEMENT TYPE 4 - DECORATIVE CONCRETE
- PAVEMENT TYPE 5 - TACTILE WARNING
- SOIL CELL ZONE
- PLANTING
- BIORETENTION
- PERMEABLE PAVING

**SITE AND LANDSCAPE GRADING AND DRAINAGE NOTES:**

1. PEDESTRIAN PAVEMENT AREAS SHALL BE GRADED TO SURFACE DRAIN TOWARD PLANTING AND BIORETENTION AREAS, SOIL CELLS ZONES, AND DISPERSION TRENCHES WHEREVER POSSIBLE.
2. REDUCING EXTENTS AND VOLUME OF UNDERGROUND CONCRETE STORMWATER DETENTION AND WATER QUALITY VAULTS SHALL BE PRIORITIZED.
3. TRENCH AND AREA DRAIN FACILITIES DIRECTLY PIPED TO STORMWATER OR COMBINED SEWER SHALL BE USED ONLY WHEN PASSIVE RE-USE IS NOT FEASIBLE.
4. OPEN PLANTING AND BIORETENTION AREAS ARE PREFERRED FOR STORMWATER MITIGATION.
5. SOIL CELL SYSTEMS UNDER PAVEMENTS SHALL BE USED TO SUPPLEMENT PLANTING SOIL VOLUMES, OR TO PROVIDE ACCESS TO SOIL AND WATER FOR TREES IN DENSELY PROGRAMMED OR SMALLER FOOTPRINT SITES, TO PROVIDE TREE CANOPY IN PEDESTRIAN ZONES.
6. SOIL CELL SYSTEMS SHALL BE DETAILED TO PROVIDE EQUIVALENT PROFILE TO NON-INFILTRATING BIO-RETENTION DETAILS AS REQUIRED BY AHJ FOR STORMWATER MITIGATION.
7. LIMIT THE USE OF PERMEABLE PAVEMENTS IN PEDESTRIAN AREAS TO NARROW BANDS TO CAPTURE RUNOFF FOR SOIL CELLS SYSTEMS OR IN TRANSITION AREAS SUCH AS PAVEMENT VALLEYS TO REDUCE MAINTENANCE REQUIREMENTS.
8. DO NOT USE PERMEABLE PAVEMENTS IN VEHICLE TRAFFIC AREAS.
9. STATION HARDSCAPE SLOPES ILLUSTRATE DESIGN INTENT FOR AVERAGE CROSS SLOPE. SITE PAVEMENTS SHALL BE MINIMUM 1.0% TO ACHIEVE POSITIVE DRAINAGE AND MAXIMUM 1.9% TO MAINTAIN ADA ACCESSIBLE ROUTES. ROW PAVEMENTS SHALL MEET AHJ REQUIREMENTS.
10. STATION PLANTING AREAS SHALL BE SLOPED MINIMUM 2% TO ACHIEVE SURFACE DRAINAGE, AND MAXIMUM 10% TO REDUCE EXCESSIVE RUN OFF AND SOIL EROSION ISSUES.
11. COORDINATE DRAINAGE FOR AREAS BELOW PAVEMENT AND ON STRUCTURE WITH CIVIL AND PLUMBING.



01/30/25 | 3:44 PM | JSLEAMAKER E:\00-PROJECTS\LR STA STANDARDS - 202303\02-TAKS 05 STATION CONFIGURATIONS\05-CAD\06-ST UPLOAD FINAL\STD-L-GRP203.DWG

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|---------------|---------|-----|-----|-----|-------------|--|--------------|--|-------|-----------------------------|------------------|--|--|-----------------------------------|--|------|--|
| DESIGNED BY:  |         |     |     |     |             |  |              |  |       | SCALE:<br>1"=20'-0"         |                  | <b>SOUND TRANSIT</b><br><b>STANDARD DRAWINGS</b><br>LANDSCAPE<br><br>AT-GRADE STATION - ON ROW<br>GRADING AND DRAINAGE |  | DRAWING No.:<br><b>STD-LGP203</b> |  |      |  |
| DRAWN BY:     |         |     |     |     |             |  |              |  |       | FILENAME:<br>STD-LGP203.DWG |                  |  |  | FACILITY ID:                      |  |      |  |
| CHECKED BY:   |         |     |     |     |             |  |              |  |       | CONTRACT No.:               |                  |  |  | SHEET No.:                        |  | REV: |  |
| APPROVED BY:  |         |     |     |     |             |  |              |  |       | DATE:<br>12/2024            |                  |  |  | REV:<br>0                         |  |      |  |
| SUBMITTED BY: |         |     |     |     | DATE:       |  | REVIEWED BY: |  | DATE: |                             | DATE:<br>12/2024 |  |  |                                   |  |      |  |
| 0             | 12/2024 | DSN | CHK | APP | NEW DRAWING |  |              |  |       |                             |                  |  |  |                                   |  |      |  |
| No.           | DATE    | DSN | CHK | APP | REVISION    |  |              |  |       |                             |                  |  |  |                                   |  |      |  |

**ARCHITECTURAL ELEMENTS**

- 1A PLATFORM EDGE ABOVE
- 1B TRACK EDGE ON GRADE
- 1C OVERHEAD STRUCTURE
- 1D NOT IN USE
- 1E STRUCTURE BELOW
- 1F NOT IN USE
- 1G GUIDEWAY COLUMN
- 1H ROW LINE
- 1J SERVICE AREA
- 1K ELECTRICAL TRANSFORMER
- 1L TRASH ENCLOSURE AREA
- 1M TEMPORARY GENERATOR LOCATION
- 1N STATION ACCESS DRIVE
- 1P SCISSOR LIFT AND UTILITY AREA

**SITE FURNISHINGS**

- 4A SITE BENCH
- 4B SITE BENCH EXPANSION OPTION
- 4C BOLLARDS, W/ FTG OUTLINE
- 4D BICYCLE PARKING LOCKER
- 4E BICYCLE PARKING LOCKER EXPANSION OPTIONS
- 4F BICYCLE PARKING RACKS
- 4G BICYCLE PARKING RACKS EXPANSION OPTION
- 4H WASTE AND RECYCLING RECEPTACLE
- 4I ART FOUNDATION LOCATION
- 4J SITE SIGN FOUNDATION
- 4K SITE LIGHT POLE FOUNDATION
- 4L LOCATION WALL SURFACE
- 4M REMOVABLE BOLLARDS

**IRRIGATION ELEMENTS**

- 5A IRRIGATION CONTROLLER
- 5B IRRIGATION POINT OF CONNECTION (POC)
- 5C IRRIGATION VALVE LOCATIONS
- 5D IRRIGATION METER
- 5E IRRIGATION WEATHER SENSOR
- 5F IRRIGATION SLEEVE
- 5G NOT IN USE

**PLANTING ELEMENTS**

- 6A PLANTING AREA
- 6B TREES
- 6C NOT IN USE
- 6D BIKE PATH BUFFER SHRUB PLANTING MIX
- 6E BIORETENTION PLANTING MIX
- 6F SOIL CELL ZONE
- 6G PLANTED BUFFER ZONE

**CIVIL ELEMENTS**

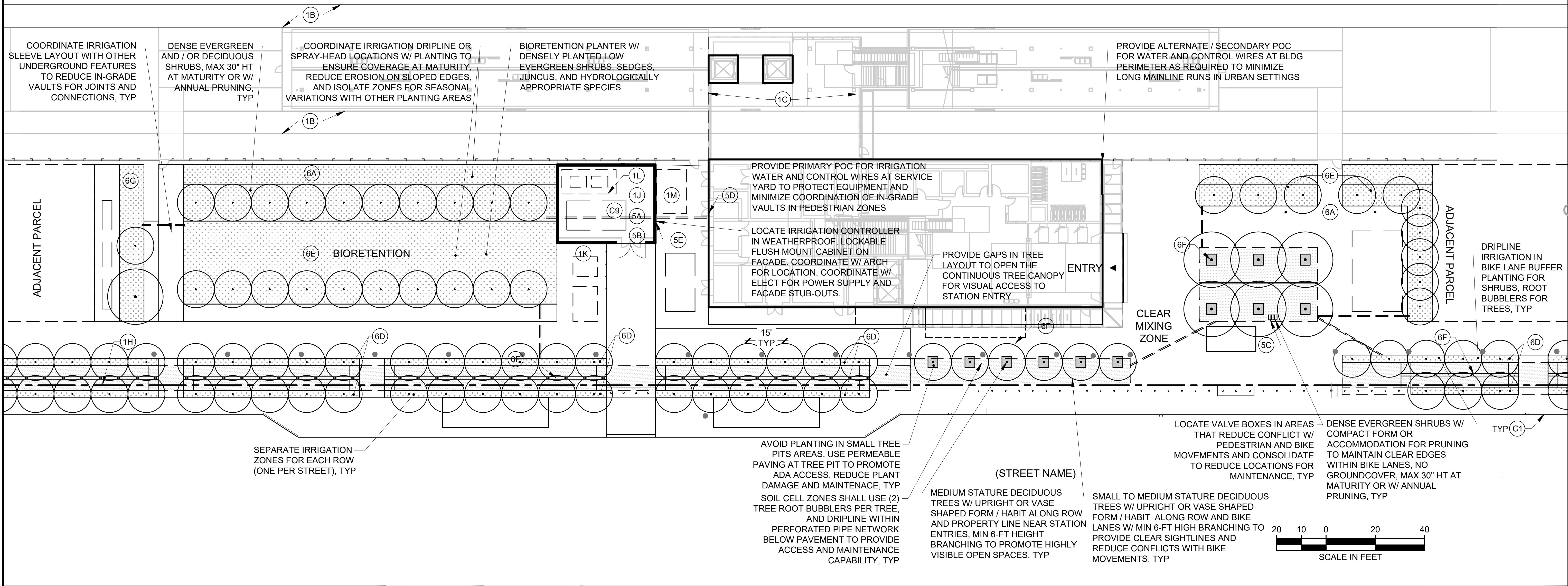
- C1 CONCRETE CURB
- C2 UNDERGROUND DETENTION FACILITY ZONE
- C3 BIORETENTION ZONE
- C4 CIVIL DRAIN PIPE
- C5 CLEAN OUTS / VERTICAL MAINTENANCE ACCESS LOCATION
- C6 UNDERDRAIN PIPE SYSTEM
- C7 GRADE RIDGE LINE
- C8 GRADE VALLEY LINE
- C9 UTILITY VAULT ZONE
- C10 STORM / SEWER CONNECTION
- C11 TRENCH DRAIN

**MATERIALS LEGEND**

- CLEAR ZONE
- PAVEMENT TYPE 1 - GENERAL PAVING
- PAVEMENT TYPE 2 - MIXING ZONE
- PAVEMENT TYPE 3 - BIKE RUMBLE PAVING
- PAVEMENT TYPE 4 - DECORATIVE CONCRETE
- PAVEMENT TYPE 5 - TACTILE WARNING
- SOIL CELL ZONE
- PLANTING
- BIORETENTION
- PERMEABLE PAVING

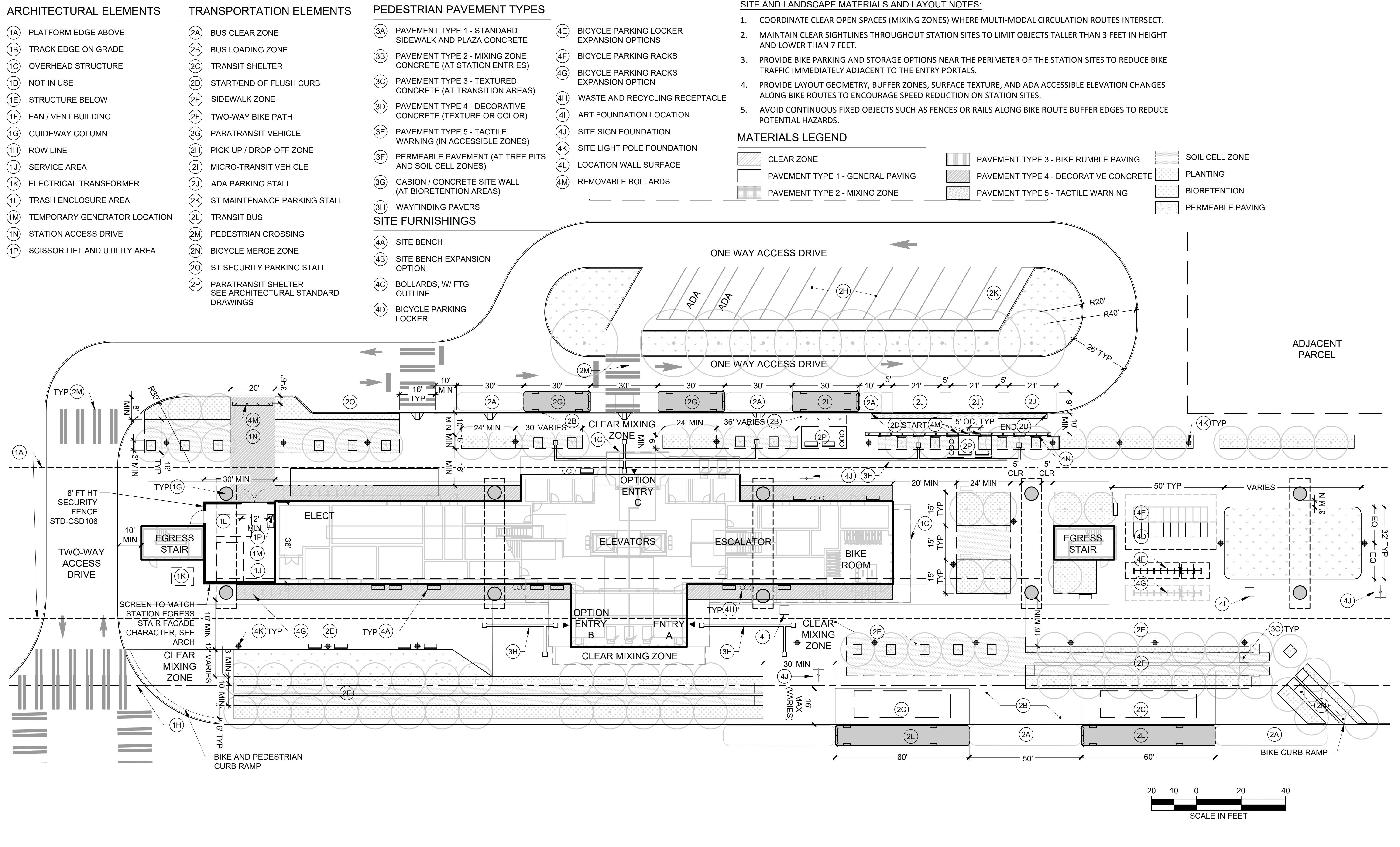
**PLANTING AND IRRIGATION NOTES:**

1. PLANTING SOILS AND SUBGRADES SHALL BE SPECIFIED AND DETAILED TO PROVIDE DEPTHS AND VOLUMES TO ACCOMMODATE TREE AND PLANT REQUIREMENTS, AND TO SATISFY STORMWATER MITIGATION REQUIREMENTS.
2. PLANTING UNDER STATION PLATFORMS AND GUIDEWAYS SHALL BE DESIGNED TO UTILIZE AVAILABLE VOLUMES FOR SMALL STATURE TREES AND UNDERSTORY PLANTS WHERE POSSIBLE. CONSIDER ACCESS TO DAYLIGHT IN SPECIES SELECTION.
3. PLANTING IN BIKE LANE BUFFER AREAS SHALL BE LIMITED TO TREES AND DENSE EVERGREEN SHRUBS. SHRUBS SHALL NOT EXCEED 30" IN HEIGHT AT MATURITY. TREES SHALL HAVE SINGLE LEADER WITH BRANCHING STARTING AT 6 FEET AND NOT EXTEND OVER BIKE LANES WITHIN A TRAVEL ENVELOPE (TBD).
4. PROVIDE WINTER SEASON IRRIGATION FOR TREES AND PLANTS IN RAIN SHADOW AREAS WITH PASSIVE GRAVITY-FED STORM WATER CONVEYANCE AND / OR SEPARATELY OPERATING AUTOMATIC IRRIGATION ZONES.
5. COORDINATE SOIL VOLUME, LOAD, AND DRAINAGE FOR AREAS BELOW PAVEMENT AND ON STRUCTURE WITH ARCH AND STRUCT.



01/30/25 | 3:44 PM | JSLEAMAKER E:\00-PROJECTS\LR STA STANDARDS - 20230302-TAKS 05 STATION CONFIGURATIONS\CAD\06-ST UPLOAD FINAL\STD-LPP303.DWG

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| DESIGNED BY:  |  |  |  |  |       |  |  |  |  | SCALE:<br>1"=20'-0"         |  |  |  |  | <b>SOUND TRANSIT</b><br>STANDARD DRAWINGS<br>LANDSCAPE<br><br>AT-GRADE STATION - ON ROW<br>PLANTING AND IRRIGATION |  |  |  |  | DRAWING No.: |  |  |  |  |
| DRAWN BY:     |  |  |  |  |       |  |  |  |  | FILENAME:<br>STD-LPP303.DWG |  |  |  |  |  |  |  |  |  | FACILITY ID: |  |  |  |  |
| CHECKED BY:   |  |  |  |  |       |  |  |  |  | CONTRACT No.:               |  |  |  |  |  |  |  |  |  | SHEET No.:   |  |  |  |  |
| APPROVED BY:  |  |  |  |  |       |  |  |  |  | DATE:<br>12/2024            |  |  |  |  |  |  |  |  |  | REV:<br>0    |  |  |  |  |
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**ARCHITECTURAL ELEMENTS**

- 1A PLATFORM EDGE ABOVE
- 1B TRACK EDGE ON GRADE
- 1C OVERHEAD STRUCTURE
- 1D NOT IN USE
- 1E STRUCTURE BELOW
- 1F FAN / VENT BUILDING
- 1G GUIDEWAY COLUMN
- 1H ROW LINE
- 1J SERVICE AREA
- 1K ELECTRICAL TRANSFORMER
- 1L TRASH ENCLOSURE AREA
- 1M TEMPORARY GENERATOR LOCATION
- 1N STATION ACCESS DRIVE
- 1P SCISSOR LIFT AND UTILITY AREA

**TRANSPORTATION ELEMENTS**

- 2A BUS CLEAR ZONE
- 2B BUS LOADING ZONE
- 2C TRANSIT SHELTER
- 2D START/END OF FLUSH CURB
- 2E SIDEWALK ZONE
- 2F TWO-WAY BIKE PATH
- 2G PARATRANSIT VEHICLE
- 2H PICK-UP / DROP-OFF ZONE
- 2I MICRO-TRANSIT VEHICLE
- 2J ADA PARKING STALL
- 2K ST MAINTENANCE PARKING STALL
- 2L TRANSIT BUS
- 2M PEDESTRIAN CROSSING
- 2N BICYCLE MERGE ZONE
- 2O ST SECURITY PARKING STALL
- 2P PARATRANSIT SHELTER SEE ARCHITECTURAL STANDARD DRAWINGS

**PEDESTRIAN PAVEMENT TYPES**

- 3A PAVEMENT TYPE 1 - STANDARD SIDEWALK AND PLAZA CONCRETE
- 3B PAVEMENT TYPE 2 - MIXING ZONE CONCRETE (AT STATION ENTRIES)
- 3C PAVEMENT TYPE 3 - TEXTURED CONCRETE (AT TRANSITION AREAS)
- 3D PAVEMENT TYPE 4 - DECORATIVE CONCRETE (TEXTURE OR COLOR)
- 3E PAVEMENT TYPE 5 - TACTILE WARNING (IN ACCESSIBLE ZONES)
- 3F PERMEABLE PAVEMENT (AT TREE PITS AND SOIL CELL ZONES)
- 3G GABION / CONCRETE SITE WALL (AT BIORETENTION AREAS)
- 3H WAYFINDING PAVERS

**SITE FURNISHINGS**

- 4A SITE BENCH
- 4B SITE BENCH EXPANSION OPTION
- 4C BOLLARDS, W/ FTG OUTLINE
- 4D BICYCLE PARKING LOCKER

**PEDESTRIAN PAVEMENT TYPES (CONT.)**

- 4E BICYCLE PARKING LOCKER EXPANSION OPTIONS
- 4F BICYCLE PARKING RACKS
- 4G BICYCLE PARKING RACKS EXPANSION OPTION
- 4H WASTE AND RECYCLING RECEPTACLE
- 4I ART FOUNDATION LOCATION
- 4J SITE SIGN FOUNDATION
- 4K SITE LIGHT POLE FOUNDATION
- 4L LOCATION WALL SURFACE
- 4M REMOVABLE BOLLARDS

**SITE AND LANDSCAPE MATERIALS AND LAYOUT NOTES:**

1. COORDINATE CLEAR OPEN SPACES (MIXING ZONES) WHERE MULTI-MODAL CIRCULATION ROUTES INTERSECT.
2. MAINTAIN CLEAR SIGHTLINES THROUGHOUT STATION SITES TO LIMIT OBJECTS TALLER THAN 3 FEET IN HEIGHT AND LOWER THAN 7 FEET.
3. PROVIDE BIKE PARKING AND STORAGE OPTIONS NEAR THE PERIMETER OF THE STATION SITES TO REDUCE BIKE TRAFFIC IMMEDIATELY ADJACENT TO THE ENTRY PORTALS.
4. PROVIDE LAYOUT GEOMETRY, BUFFER ZONES, SURFACE TEXTURE, AND ADA ACCESSIBLE ELEVATION CHANGES ALONG BIKE ROUTES TO ENCOURAGE SPEED REDUCTION ON STATION SITES.
5. AVOID CONTINUOUS FIXED OBJECTS SUCH AS FENCES OR RAILS ALONG BIKE ROUTE BUFFER EDGES TO REDUCE POTENTIAL HAZARDS.

**MATERIALS LEGEND**

|  |                                  |  |                                       |  |                  |
|--|----------------------------------|--|---------------------------------------|--|------------------|
|  | CLEAR ZONE                       |  | PAVEMENT TYPE 3 - BIKE RUMBLE PAVING  |  | SOIL CELL ZONE   |
|  | PAVEMENT TYPE 1 - GENERAL PAVING |  | PAVEMENT TYPE 4 - DECORATIVE CONCRETE |  | PLANTING         |
|  | PAVEMENT TYPE 2 - MIXING ZONE    |  | PAVEMENT TYPE 5 - TACTILE WARNING     |  | BIORETENTION     |
|  |                                  |  |                                       |  | PERMEABLE PAVING |

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| CHECKED BY:  |  |
| APPROVED BY: |  |

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**SOUND TRANSIT STANDARD DRAWINGS LANDSCAPE**

ELEVATED STATION - SITE ACCESS LOOP MATERIALS AND LAYOUT

|              |            |
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| DRAWING No.: | STD-LHP104 |
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**ARCHITECTURAL ELEMENTS**

- (1A) PLATFORM EDGE ABOVE
- (1B) TRACK EDGE ON GRADE
- (1C) OVERHEAD STRUCTURE
- (1D) NOT IN USE
- (1E) STRUCTURE BELOW
- (1F) FAN / VENT BUILDING
- (1G) GUIDEWAY COLUMN
- (1H) ROW LINE
- (1J) SERVICE AREA
- (1K) ELECTRICAL TRANSFORMER
- (1L) TRASH ENCLOSURE AREA
- (1M) TEMPORARY GENERATOR LOCATION
- (1N) STATION ACCESS DRIVE
- (1P) SCISSOR LIFT AND UTILITY AREA

**PLANTING ELEMENTS**

- (6A) PLANTING AREA
- (6B) TREES
- (6C) NOT IN USE
- (6D) BIKE PATH BUFFER SHRUB PLANTING MIX
- (6E) BIORETENTION PLANTING MIX
- (6F) SOIL CELL ZONE
- (6G) PLANTED BUFFER ZONE

**CIVIL ELEMENTS**

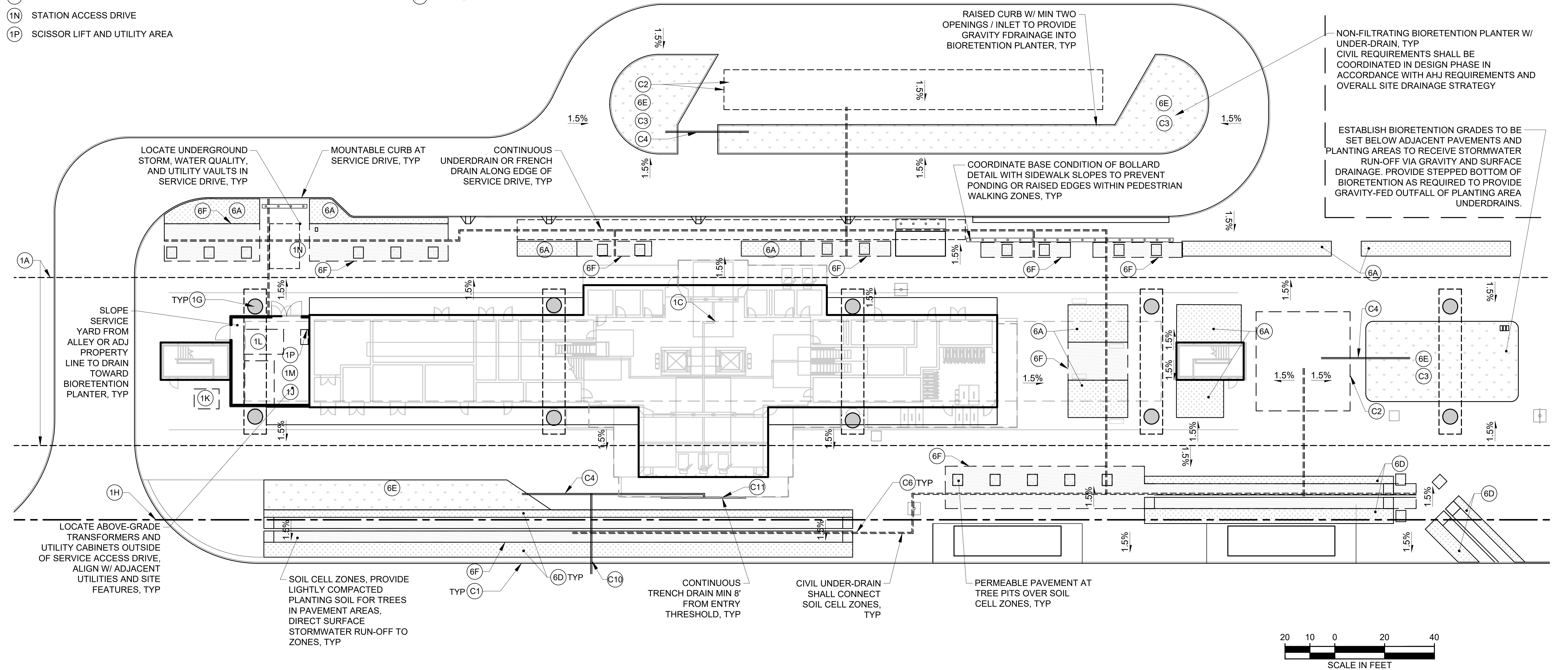
- (C1) CONCRETE CURB
- (C2) UNDERGROUND DETENTION FACILITY ZONE
- (C3) BIORETENTION ZONE
- (C4) CIVIL DRAIN PIPE
- (C5) CLEAN OUTS / VERTICAL MAINTENANCE ACCESS LOCATION
- (C6) UNDERDRAIN PIPE SYSTEM
- (C7) GRADE RIDGE LINE
- (C8) GRADE VALLEY LINE
- (C9) UTILITY VAULT ZONE
- (C10) STORM / SEWER CONNECTION
- (C11) TRENCH DRAIN

**MATERIALS LEGEND**

- CLEAR ZONE
- PAVEMENT TYPE 1 - GENERAL PAVING
- PAVEMENT TYPE 2 - MIXING ZONE
- PAVEMENT TYPE 3 - BIKE RUMBLE PAVING
- PAVEMENT TYPE 4 - DECORATIVE CONCRETE
- PAVEMENT TYPE 5 - TACTILE WARNING
- SOIL CELL ZONE
- PLANTING
- BIORETENTION
- PERMEABLE PAVING

**SITE AND LANDSCAPE GRADING AND DRAINAGE NOTES:**

1. PEDESTRIAN PAVEMENT AREAS SHALL BE GRADED TO SURFACE DRAIN TOWARD PLANTING AND BIORETENTION AREAS, SOIL CELLS ZONES, AND DISPERSION TRENCHES WHEREVER POSSIBLE.
2. REDUCING EXTENTS AND VOLUME OF UNDERGROUND CONCRETE STORMWATER DETENTION AND WATER QUALITY VAULTS SHALL BE PRIORITIZED.
3. TRENCH AND AREA DRAIN FACILITIES DIRECTLY PIPED TO STORMWATER OR COMBINED SEWER SHALL BE USED ONLY WHEN PASSIVE RE-USE IS NOT FEASIBLE.
4. OPEN PLANTING AND BIORETENTION AREAS ARE PREFERRED FOR STORMWATER MITIGATION.
5. SOIL CELL SYSTEMS UNDER PAVEMENTS SHALL BE USED TO SUPPLEMENT PLANTING SOIL VOLUMES, OR TO PROVIDE ACCESS TO SOIL AND WATER FOR TREES IN DENSELY PROGRAMMED OR SMALLER FOOTPRINT SITES, TO PROVIDE TREE CANOPY IN PEDESTRIAN ZONES.
6. SOIL CELL SYSTEMS SHALL BE DETAILED TO PROVIDE EQUIVALENT PROFILE TO NON-INFILTRATING BIO-RETENTION DETAILS AS REQUIRED BY AHJ FOR STORMWATER MITIGATION.
7. LIMIT THE USE OF PERMEABLE PAVEMENTS IN PEDESTRIAN AREAS TO NARROW BANDS TO CAPTURE RUNOFF FOR SOIL CELLS SYSTEMS OR IN TRANSITION AREAS SUCH AS PAVEMENT VALLEYS TO REDUCE MAINTENANCE REQUIREMENTS.
8. DO NOT USE PERMEABLE PAVEMENTS IN VEHICLE TRAFFIC AREAS.
9. STATION HARDSCAPE SLOPES ILLUSTRATE DESIGN INTENT FOR AVERAGE CROSS SLOPE. SITE PAVEMENTS SHALL BE MINIMUM 1.0% TO ACHIEVE POSITIVE DRAINAGE AND MAXIMUM 1.9% TO MAINTAIN ADA ACCESSIBLE ROUTES. ROW PAVEMENTS SHALL MEET AHJ REQUIREMENTS.
10. STATION PLANTING AREAS SHALL BE SLOPED MIN. 2% TO ACHIEVE SURFACE DRAINAGE, AND MAXIMUM 10% TO REDUCE EXCESSIVE RUN OFF AND SOIL EROSION ISSUES.
11. COORDINATE DRAINAGE FOR AREAS BELOW PAVEMENT AND ON STRUCTURE WITH CIVIL AND PLUMBING.



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**SOUND TRANSIT**

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**SOUND TRANSIT STANDARD DRAWINGS LANDSCAPE**

ELEVATED STATION - SITE ACCESS LOOP GRADING AND DRAINAGE

|              |                   |
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| DRAWING No.: | <b>STD-LGP204</b> |
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**ARCHITECTURAL ELEMENTS**

- (1A) PLATFORM EDGE ABOVE
- (1B) TRACK EDGE ON GRADE
- (1C) OVERHEAD STRUCTURE
- (1D) NOT IN USE
- (1E) STRUCTURE BELOW
- (1F) FAN / VENT BUILDING
- (1G) GUIDEWAY COLUMN
- (1H) ROW LINE
- (1J) SERVICE AREA
- (1K) ELECTRICAL TRANSFORMER
- (1L) TRASH ENCLOSURE AREA
- (1M) TEMPORARY GENERATOR LOCATION
- (1N) STATION ACCESS DRIVE
- (1P) SCISSOR LIFT AND UTILITY AREA

**IRRIGATION ELEMENTS**

- (5A) IRRIGATION CONTROLLER
- (5B) IRRIGATION POINT OF CONNECTION (POC)
- (5C) IRRIGATION VALVE LOCATIONS
- (5D) IRRIGATION METER
- (5E) IRRIGATION WEATHER SENSOR
- (5F) IRRIGATION SLEEVE
- (5G) NOT IN USE

**PLANTING ELEMENTS**

- (6A) PLANTING AREA
- (6B) TREES
- (6C) NOT IN USE
- (6D) BIKE PATH BUFFER SHRUB PLANTING MIX
- (6E) BIORETENTION PLANTING MIX
- (6F) SOIL CELL ZONE
- (6G) PLANTED BUFFER ZONE

**CIVIL ELEMENTS**

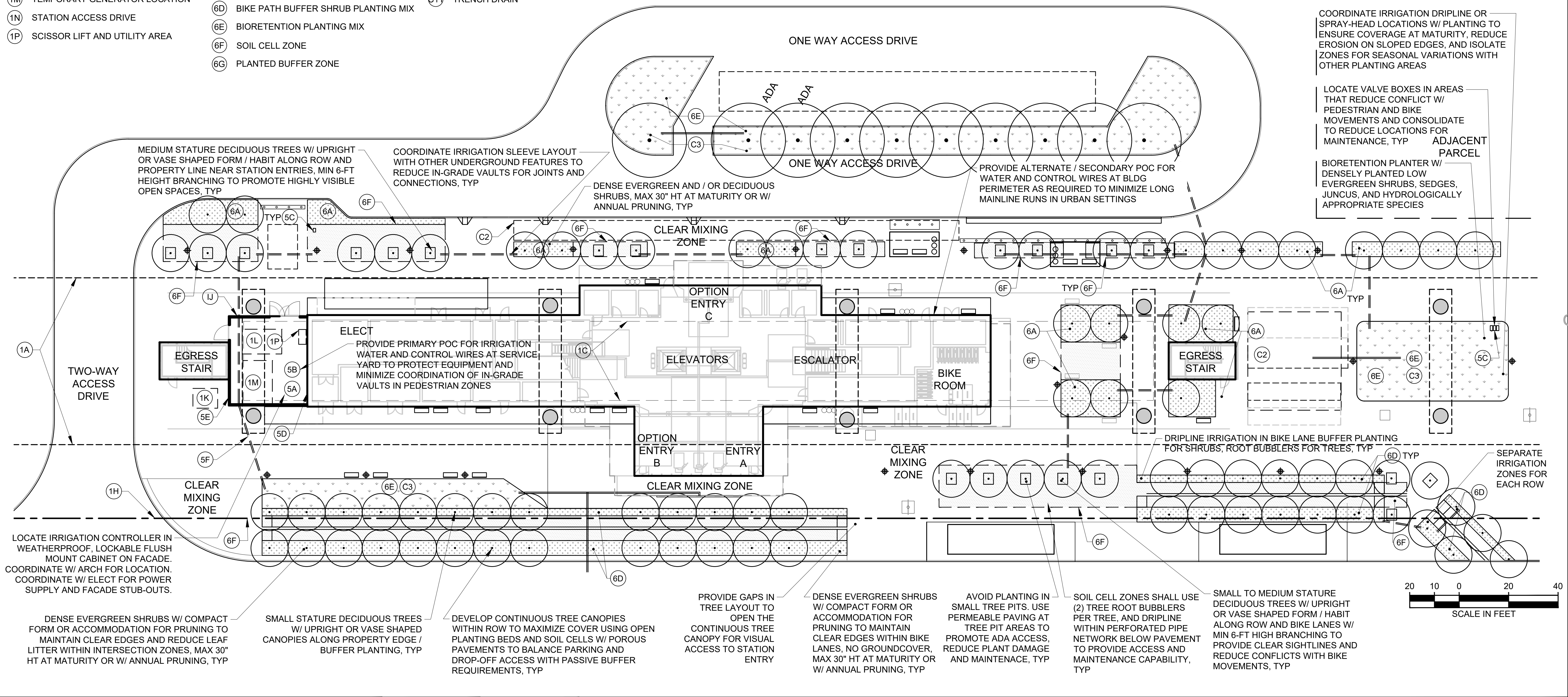
- (C1) CONCRETE CURB
- (C2) UNDERGROUND DETENTION FACILITY ZONE
- (C3) BIORETENTION ZONE
- (C4) CIVIL DRAIN PIPE
- (C5) CLEAN OUTS / VERTICAL MAINTENANCE ACCESS LOCATION
- (C6) UNDERDRAIN PIPE SYSTEM
- (C7) GRADE RIDGE LINE
- (C8) GRADE VALLEY LINE
- (C9) UTILITY VAULT ZONE
- (C10) STORM / SEWER CONNECTION
- (C11) TRENCH DRAIN

**MATERIALS LEGEND**

- CLEAR ZONE
- PAVEMENT TYPE 1 - GENERAL PAVING
- PAVEMENT TYPE 2 - MIXING ZONE
- PAVEMENT TYPE 3 - BIKE RUMBLE PAVING
- PAVEMENT TYPE 4 - DECORATIVE CONCRETE
- PAVEMENT TYPE 5 - TACTILE WARNING
- SOIL CELL ZONE
- PLANTING
- BIORETENTION
- PERMEABLE PAVING

**PLANTING AND IRRIGATION NOTES:**

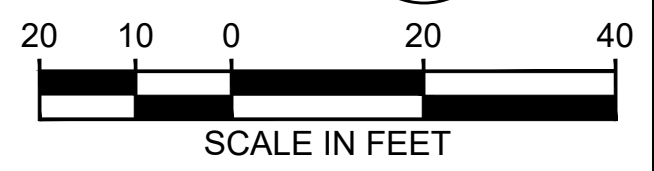
1. PLANTING SOILS AND SUBGRADES SHALL BE SPECIFIED AND DETAILED TO PROVIDE DEPTHS AND VOLUMES TO ACCOMMODATE TREE AND PLANT REQUIREMENTS, AND TO SATISFY STORMWATER MITIGATION REQUIREMENTS.
2. PLANTING UNDER STATION PLATFORMS AND GUIDEWAYS SHALL BE DESIGNED TO UTILIZE AVAILABLE VOLUMES FOR SMALL STATURE TREES AND UNDERSTORY PLANTS WHERE POSSIBLE. CONSIDER ACCESS TO DAYLIGHT IN SPECIES SELECTION.
3. PLANTING IN BIKE LANE BUFFER AREAS SHALL BE LIMITED TO TREES AND DENSE EVERGREEN SHRUBS. SHRUBS SHALL NOT EXCEED 30" IN HEIGHT AT MATURITY. TREES SHALL HAVE SINGLE LEADER WITH BRANCHING STARTING AT 6 FEET AND NOT EXTEND OVER BIKE LANES WITHIN A TRAVEL ENVELOPE (TBD).
4. PROVIDE WINTER SEASON IRRIGATION FOR TREES AND PLANTS IN RAIN SHADOW AREAS WITH PASSIVE GRAVITY-FED STORM WATER CONVEYANCE AND / OR SEPARATELY OPERATING AUTOMATIC IRRIGATION ZONES.
5. COORDINATE SOIL VOLUME, LOAD, AND DRAINAGE FOR AREAS BELOW PAVEMENT AND ON STRUCTURE WITH ARCH AND STRUCT.



COORDINATE IRRIGATION DRIPLINE OR SPRAY-HEAD LOCATIONS W/ PLANTING TO ENSURE COVERAGE AT MATURITY, REDUCE EROSION ON SLOPED EDGES, AND ISOLATE ZONES FOR SEASONAL VARIATIONS WITH OTHER PLANTING AREAS

LOCATE VALVE BOXES IN AREAS THAT REDUCE CONFLICT W/ PEDESTRIAN AND BIKE MOVEMENTS AND CONSOLIDATE TO REDUCE LOCATIONS FOR MAINTENANCE, TYP ADJACENT PARCEL

BIORETENTION PLANTER W/ DENSELY PLANTED LOW EVERGREEN SHRUBS, SEDGES, JUNCUS, AND HYDROLOGICALLY APPROPRIATE SPECIES



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**SOUND TRANSIT  
STANDARD DRAWINGS  
LANDSCAPE**

ELEVATED STATION - SITE ACCESS LOOP  
PLANTING AND IRRIGATION

|              |                   |
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| DRAWING No.: | <b>STD-LPP304</b> |
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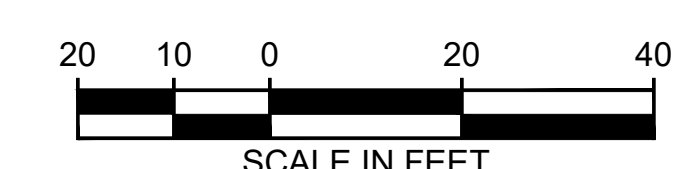
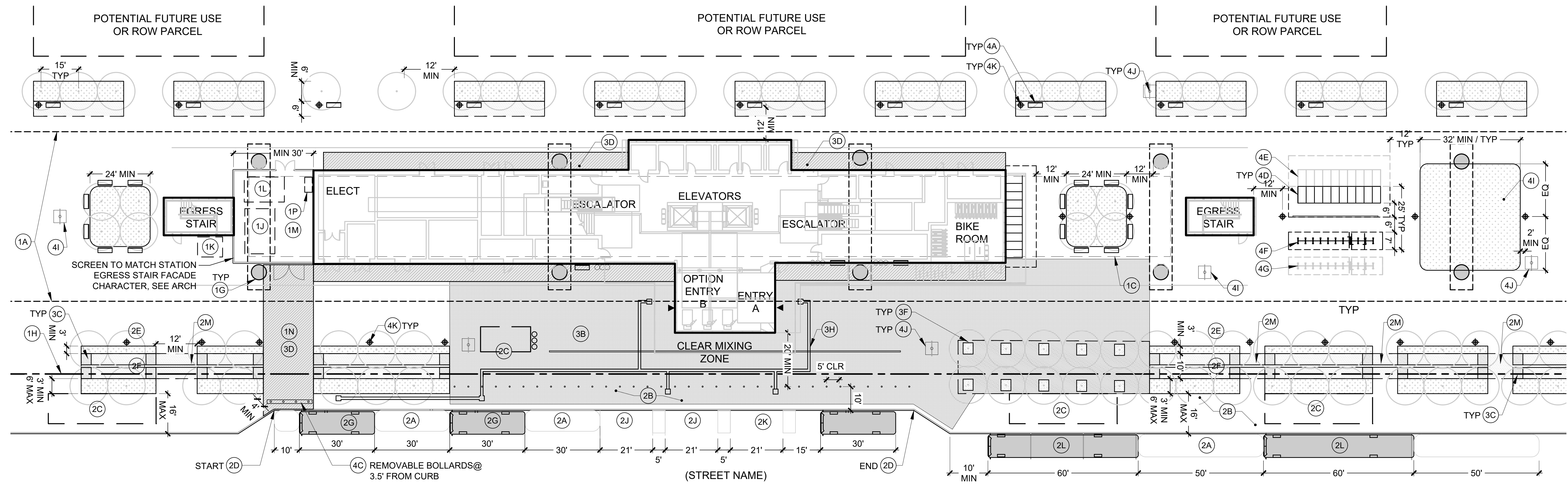
| ARCHITECTURAL ELEMENTS           | TRANSPORTATION ELEMENTS                                    | PEDESTRIAN PAVEMENT TYPES                                      | SITE FURNISHINGS                            |
|----------------------------------|--|--|---|
| 1A PLATFORM EDGE ABOVE           | 2A BUS CLEAR ZONE  | 3A PAVEMENT TYPE 1 - GENERAL (SIDEWALK AND PLAZA CONCRETE)     | 4A SITE BENCH                               |
| 1B TRACK EDGE ON GRADE           | 2B BUS LOADING ZONE  | 3B PAVEMENT TYPE 2 - MIXING ZONE CONCRETE (AT STATION ENTRIES) | 4B SITE BENCH EXPANSION OPTION              |
| 1C OVERHEAD STRUCTURE            | 2C TRANSIT SHELTER   | 3C PAVEMENT TYPE 3 - TEXTURED CONCRETE (AT TRANSITION AREAS)   | 4C BOLLARDS, W/ FTG OUTLINE                 |
| 1D NOT IN USE                    | 2D START/END OF FLUSH CURB                                 | 3D PAVEMENT TYPE 4 - DECORATIVE CONCRETE (TEXTURE OR COLOR)    | 4D BICYCLE PARKING LOCKER                   |
| 1E STRUCTURE BELOW               | 2E SIDEWALK ZONE   | 3D PAVEMENT TYPE 4 - DECORATIVE CONCRETE (TEXTURE OR COLOR)    | 4E BICYCLE PARKING LOCKER EXPANSION OPTIONS |
| 1F FAN / VENT BUILDING           | 2F TWO-WAY BIKE PATH                                       | 3E PAVEMENT TYPE 5 - TACTILE WARNING (IN ACCESSIBLE ZONES)     | 4F BICYCLE PARKING RACKS                    |
| 1G GUIDEWAY COLUMN               | 2G PARATRANSIT VEHICLE                                     | 3F PERMEABLE PAVEMENT (AT TREE PITS AND SOIL CELL ZONES)       | 4G BICYCLE PARKING RACKS EXPANSION OPTION   |
| 1H ROW LINE                      | 2H PICK-UP / DROP-OFF ZONE                                 | 3G GABION / CONCRETE SITE WALL (AT BIO RETENTION AREAS)        | 4H WASTE AND RECYCLING RECEPTACLE           |
| 1J SERVICE AREA                  | 2I MICRO-TRANSIT VEHICLE                                   | 3H WAYFINDING PAVERS   | 4I ART FOUNDATION LOCATION                  |
| 1K ELECTRICAL TRANSFORMER        | 2J ADA PARKING STALL                                       |  | 4J SITE SIGN FOUNDATION                     |
| 1L TRASH ENCLOSURE AREA          | 2K ST MAINTENANCE PARKING STALL                            |  | 4K SITE LIGHT POLE FOUNDATION               |
| 1M TEMPORARY GENERATOR LOCATION  | 2L TRANSIT BUS   |  | 4L LOCATION WALL SURFACE                    |
| 1N STATION ACCESS DRIVE          | 2M PEDESTRIAN CROSSING                                     |  | 4M REMOVABLE BOLLARDS                       |
| 1P SCISSOR LIFT AND UTILITY AREA | 2N BICYCLE MERGE ZONE                                      |  |   |
|                                  | 2O ST SECURITY PARKING STALL                               |  |   |
|                                  | 2P PARATRANSIT SHELTER SEE ARCHITECTURAL STANDARD DRAWINGS |  |   |

**SITE AND LANDSCAPE MATERIALS AND LAYOUT NOTES:**

- COORDINATE CLEAR OPEN SPACES (MIXING ZONES) WHERE MULTI-MODAL CIRCULATION ROUTES INTERSECT.
- MAINTAIN CLEAR SIGHTLINES THROUGHOUT STATION SITES TO LIMIT OBJECTS TALLER THAN 3 FEET IN HEIGHT AND LOWER THAN 7 FEET.
- PROVIDE BIKE PARKING AND STORAGE OPTIONS NEAR THE PERIMETER OF THE STATION SITES TO REDUCE BIKE TRAFFIC IMMEDIATELY ADJACENT TO THE ENTRY PORTALS.
- PROVIDE LAYOUT GEOMETRY, BUFFER ZONES, SURFACE TEXTURE, AND ADA ACCESSIBLE ELEVATION CHANGES ALONG BIKE ROUTES TO ENCOURAGE SPEED REDUCTION ON STATION SITES.
- AVOID CONTINUOUS FIXED OBJECTS SUCH AS FENCES OR RAILS ALONG BIKE ROUTE BUFFER EDGES TO REDUCE POTENTIAL HAZARDS.

**MATERIALS LEGEND**

|  |                                       |
|--|---------------------------------------|
|  | CLEAR ZONE                            |
|  | PAVEMENT TYPE 1 - GENERAL PAVING      |
|  | PAVEMENT TYPE 2 - MIXING ZONE         |
|  | PAVEMENT TYPE 3 - BIKE RUMBLE PAVING  |
|  | PAVEMENT TYPE 4 - DECORATIVE CONCRETE |
|  | PAVEMENT TYPE 5 - TACTILE WARNING     |
|  | SOIL CELL ZONE                        |
|  | PLANTING                              |
|  | BIORETENTION                          |
|  | PERMEABLE PAVING                      |



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**ARCHITECTURAL ELEMENTS**

- 1A PLATFORM EDGE ABOVE
- 1B TRACK EDGE ON GRADE
- 1C OVERHEAD STRUCTURE
- 1D NOT IN USE
- 1E STRUCTURE BELOW
- 1F FAN / VENT BUILDING
- 1G GUIDEWAY COLUMN
- 1H ROW LINE
- 1J SERVICE AREA
- 1K ELECTRICAL TRANSFORMER
- 1L TRASH ENCLOSURE AREA
- 1M TEMPORARY GENERATOR LOCATION
- 1N STATION ACCESS DRIVE
- 1P SCISSOR LIFT AND UTILITY AREA

**PLANTING ELEMENTS**

- 6A PLANTING AREA
- 6B TREES
- 6C NOT IN USE
- 6D BIKE PATH BUFFER SHRUB PLANTING MIX
- 6E BIORETENTION PLANTING MIX
- 6F SOIL CELL ZONE
- 6G PLANTED BUFFER ZONE

**CIVIL ELEMENTS**

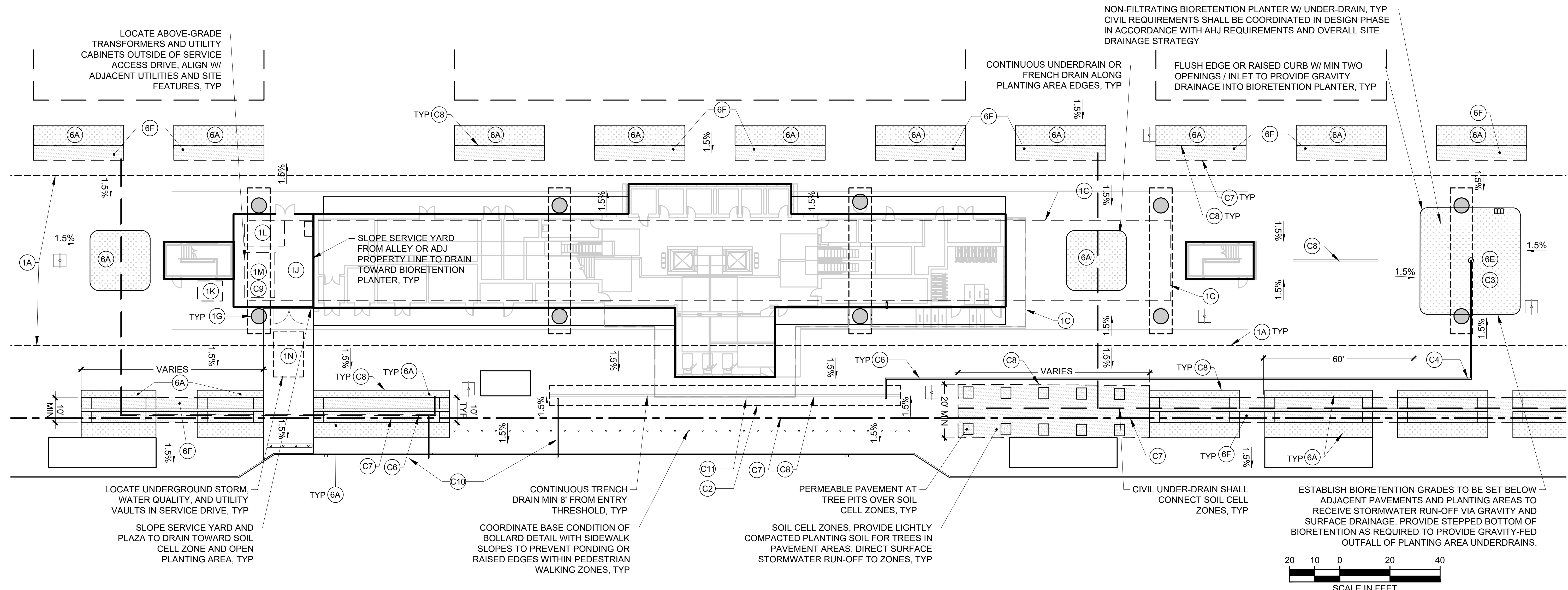
- C1 CONCRETE CURB
- C2 UNDERGROUND DETENTION FACILITY ZONE
- C3 BIORETENTION ZONE
- C4 CIVIL DRAIN PIPE
- C5 CLEAN OUTS / VERTICAL MAINTENANCE ACCESS LOCATION
- C6 UNDERDRAIN PIPE SYSTEM
- C7 GRADE RIDGE LINE
- C8 GRADE VALLEY LINE
- C9 UTILITY VAULT ZONE
- C10 STORM / SEWER CONNECTION
- C11 TRENCH DRAIN

**MATERIALS LEGEND**

- CLEAR ZONE
- PAVEMENT TYPE 1 - GENERAL PAVING
- PAVEMENT TYPE 2 - MIXING ZONE
- PAVEMENT TYPE 3 - BIKE RUMBLE PAVING
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- PAVEMENT TYPE 5 - TACTILE WARNING
- SOIL CELL ZONE
- PLANTING
- BIORETENTION
- PERMEABLE PAVING

**SITE AND LANDSCAPE GRADING AND DRAINAGE NOTES:**

1. PEDESTRIAN PAVEMENT AREAS SHALL BE GRADED TO SURFACE DRAIN TOWARD PLANTING AND BIORETENTION AREAS, SOIL CELLS ZONES, AND DISPERSION TRENCHES WHEREVER POSSIBLE.
2. REDUCING EXTENTS AND VOLUME OF UNDERGROUND CONCRETE STORMWATER DETENTION AND WATER QUALITY VAULTS SHALL BE PRIORITIZED.
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5. SOIL CELL SYSTEMS UNDER PAVEMENTS SHALL BE USED TO SUPPLEMENT PLANTING SOIL VOLUMES, OR TO PROVIDE ACCESS TO SOIL AND WATER FOR TREES IN DENSELY PROGRAMMED OR SMALLER FOOTPRINT SITES, TO PROVIDE TREE CANOPY IN PEDESTRIAN ZONES.
6. SOIL CELL SYSTEMS SHALL BE DETAILED TO PROVIDE EQUIVALENT PROFILE TO NON-INFILTRATING BIO-RETENTION DETAILS AS REQUIRED BY AHJ FOR STORMWATER MITIGATION.
7. LIMIT THE USE OF PERMEABLE PAVEMENTS IN PEDESTRIAN AREAS TO NARROW BANDS TO CAPTURE RUNOFF FOR SOIL CELLS SYSTEMS OR IN TRANSITION AREAS SUCH AS PAVEMENT VALLEYS TO REDUCE MAINTENANCE REQUIREMENTS.
8. DO NOT USE PERMEABLE PAVEMENTS IN VEHICLE TRAFFIC AREAS.
9. STATION HARDSCAPE SLOPES ILLUSTRATE DESIGN INTENT FOR AVERAGE CROSS SLOPE. SITE PAVEMENTS SHALL BE MINIMUM 1.0% TO ACHIEVE POSITIVE DRAINAGE AND MAXIMUM 1.9% TO MAINTAIN ADA ACCESSIBLE ROUTES. ROW PAVEMENTS SHALL MEET AHJ REQUIREMENTS.
10. STATION PLANTING AREAS SHALL BE SLOPED MINIMUM 2% TO ACHIEVE SURFACE DRAINAGE, AND MAXIMUM 10% TO REDUCE EXCESSIVE RUN OFF AND SOIL EROSION ISSUES.
11. COORDINATE DRAINAGE FOR AREAS BELOW PAVEMENT AND ON STRUCTURE WITH CIVIL AND PLUMBING.



01/30/25 | 3:44 PM | JSL/EMAKER E:\00-PROJECTS\LR STA STANDARDS - 20230302-TAKS 05 STATION CONFIGURATIONS\CAD\06-ST UPLOAD FINAL\STD-LGP205.DWG

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| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>DATE</th> <th>DSN</th> <th>CHK</th> <th>APP</th> <th>REVISION</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>12/2024</td> <td></td> <td></td> <td></td> <td>NEW DRAWING</td> </tr> </tbody> </table> |         |     |     |     | No.          | DATE | DSN | CHK | APP | REVISION | 0                           | 12/2024 |  |  |                                   | NEW DRAWING | SUBMITTED BY: |  | DATE: |  | REVIEWED BY: |  | DATE: |  |  |  |
| No.  | DATE    | DSN | CHK | APP | REVISION     |      |     |     |     |          |                             |         |  |  |                                   |             |               |  |       |  |              |  |       |  |  |  |
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**ARCHITECTURAL ELEMENTS**

- 1A PLATFORM EDGE ABOVE
- 1B TRACK EDGE ON GRADE
- 1C OVERHEAD STRUCTURE
- 1D NOT IN USE
- 1E STRUCTURE BELOW
- 1F FAN / VENT BUILDING
- 1G GUIDEWAY COLUMN
- 1H ROW LINE
- 1J SERVICE AREA
- 1K ELECTRICAL TRANSFORMER
- 1L TRASH ENCLOSURE AREA
- 1M TEMPORARY GENERATOR LOCATION
- 1N STATION ACCESS DRIVE
- 1P SCISSOR LIFT AND UTILITY AREA

**SITE FURNISHINGS**

- 4A SITE BENCH
- 4B SITE BENCH EXPANSION OPTION
- 4C BOLLARDS, W/ FTG OUTLINE
- 4D BICYCLE PARKING LOCKER
- 4E BICYCLE PARKING LOCKER EXPANSION OPTIONS
- 4F BICYCLE PARKING RACKS
- 4G BICYCLE PARKING RACKS EXPANSION OPTION
- 4H WASTE AND RECYCLING RECEPTACLE
- 4I ART FOUNDATION LOCATION
- 4J SITE SIGN FOUNDATION
- 4K SITE LIGHT POLE FOUNDATION
- 4L LOCATION WALL SURFACE
- 4M REMOVABLE BOLLARDS

**IRRIGATION ELEMENTS**

- 5A IRRIGATION CONTROLLER
- 5B IRRIGATION POINT OF CONNECTION (POC)
- 5C IRRIGATION VALVE LOCATIONS
- 5D IRRIGATION METER
- 5E IRRIGATION WEATHER SENSOR
- 5F IRRIGATION SLEEVE
- 5G NOT IN USE

**PLANTING ELEMENTS**

- 6A PLANTING AREA
- 6B TREES
- 6C NOT IN USE
- 6D BIKE PATH BUFFER SHRUB PLANTING MIX
- 6E BIORETENTION PLANTING MIX
- 6F SOIL CELL ZONE
- 6G PLANTED BUFFER ZONE

**CIVIL ELEMENTS**

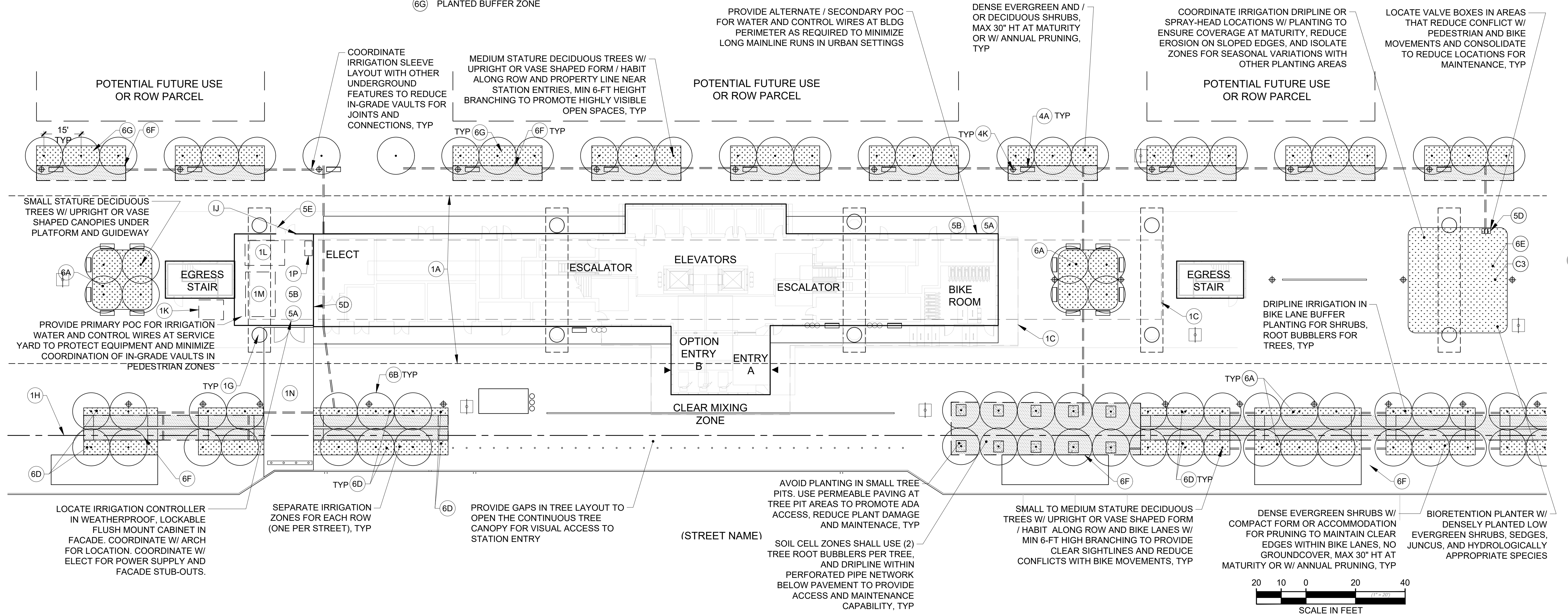
- C1 CONCRETE CURB
- C2 UNDERGROUND DETENTION FACILITY ZONE
- C3 BIORETENTION ZONE
- C4 CIVIL DRAIN PIPE
- C5 CLEAN OUTS / VERTICAL MAINTENANCE ACCESS LOCATION
- C6 UNDERDRAIN PIPE SYSTEM
- C7 GRADE RIDGE LINE
- C8 GRADE VALLEY LINE
- C9 UTILITY VAULT ZONE
- C10 STORM / SEWER CONNECTION

**MATERIALS LEGEND**

- CLEAR ZONE
- PAVEMENT TYPE 1 - GENERAL PAVING
- PAVEMENT TYPE 2 - MIXING ZONE
- PAVEMENT TYPE 3 - BIKE RUMBLE PAVING
- PAVEMENT TYPE 4 - DECORATIVE CONCRETE
- PAVEMENT TYPE 5 - TACTILE WARNING
- SOIL CELL ZONE
- PLANTING
- BIORETENTION
- PERMEABLE PAVING

**PLANTING AND IRRIGATION NOTES:**

1. PLANTING SOILS AND SUBGRADES SHALL BE SPECIFIED AND DETAILED TO PROVIDE DEPTHS AND VOLUMES TO ACCOMMODATE TREE AND PLANT REQUIREMENTS, AND TO SATISFY STORMWATER MITIGATION REQUIREMENTS.
2. PLANTING UNDER STATION PLATFORMS AND GUIDEWAYS SHALL BE DESIGNED TO UTILIZE AVAILABLE VOLUMES FOR SMALL STATURE TREES AND UNDERSTORY PLANTS WHERE POSSIBLE. CONSIDER ACCESS TO DAYLIGHT IN SPECIES SELECTION.
3. PLANTING IN BIKE LANE BUFFER AREAS SHALL BE LIMITED TO TREES AND DENSE EVERGREEN SHRUBS. SHRUBS SHALL NOT EXCEED 30" IN HEIGHT AT MATURITY. TREES SHALL HAVE SINGLE LEADER WITH BRANCHING STARTING AT 6 FEET AND NOT EXTEND OVER BIKE LANES WITHIN A TRAVEL ENVELOPE (TBD).
4. PROVIDE WINTER SEASON IRRIGATION FOR TREES AND PLANTS IN RAIN SHADOW AREAS WITH PASSIVE GRAVITY-FED STORM WATER CONVEYANCE AND / OR SEPARATELY OPERATING AUTOMATIC IRRIGATION ZONES.
5. COORDINATE SOIL VOLUME, LOAD, AND DRAINAGE FOR AREAS BELOW PAVEMENT AND ON STRUCTURE WITH ARCH AND STRUCT.

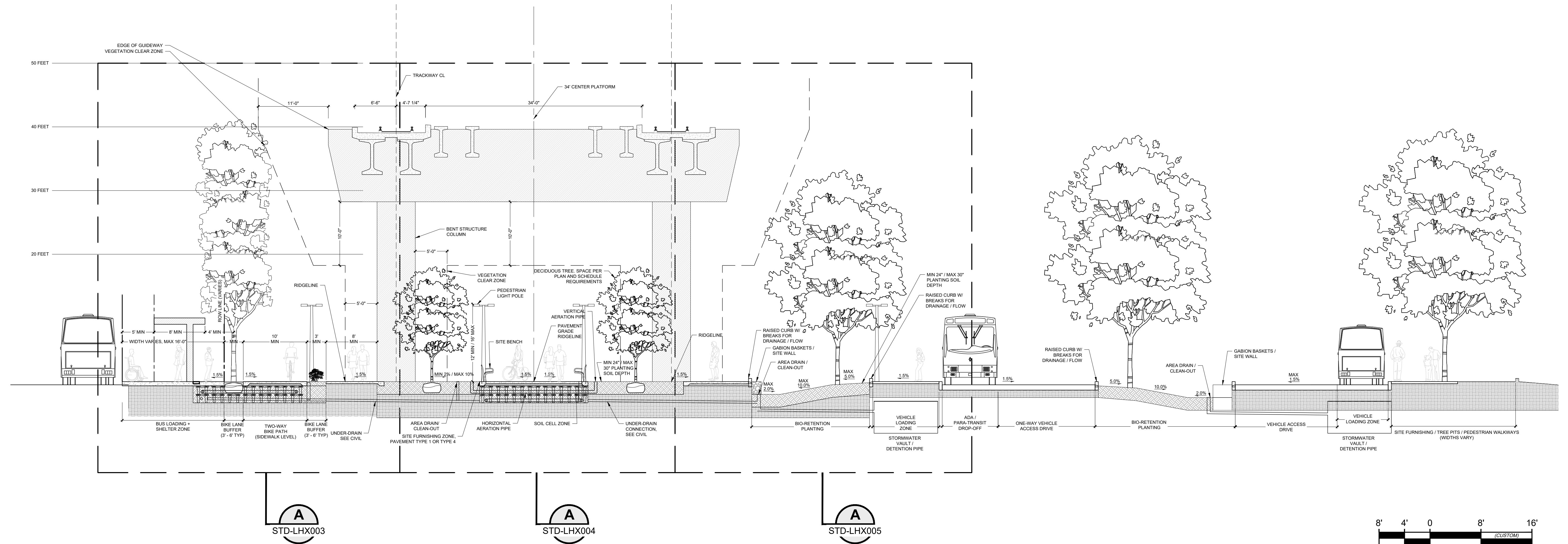


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| No.          | DATE    | DSN | CHK | APP | REVISION    |

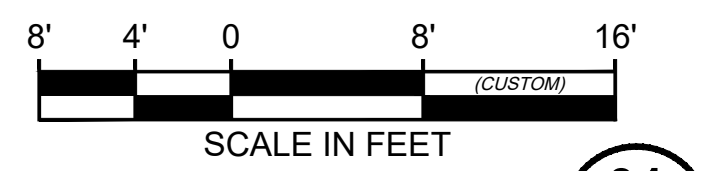
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**ELEVATED STATION SITE WITH ACCESS DRIVE SECTION**

SCALE: 1/8" = 1'-0"



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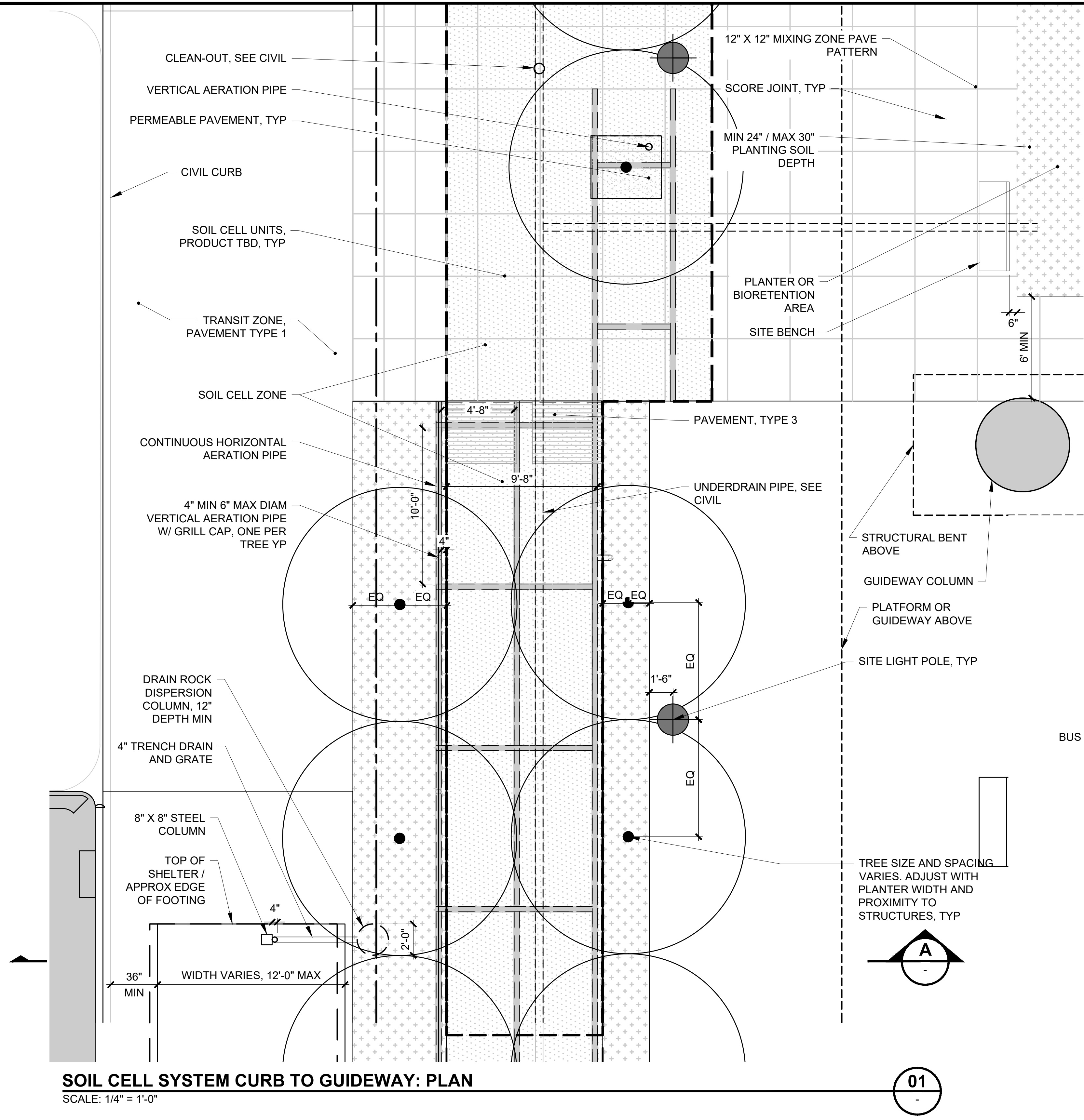
**SOUND TRANSIT**  
**STANDARD DRAWINGS**  
LANDSCAPE

ELEVATED STATION SITE SECTION

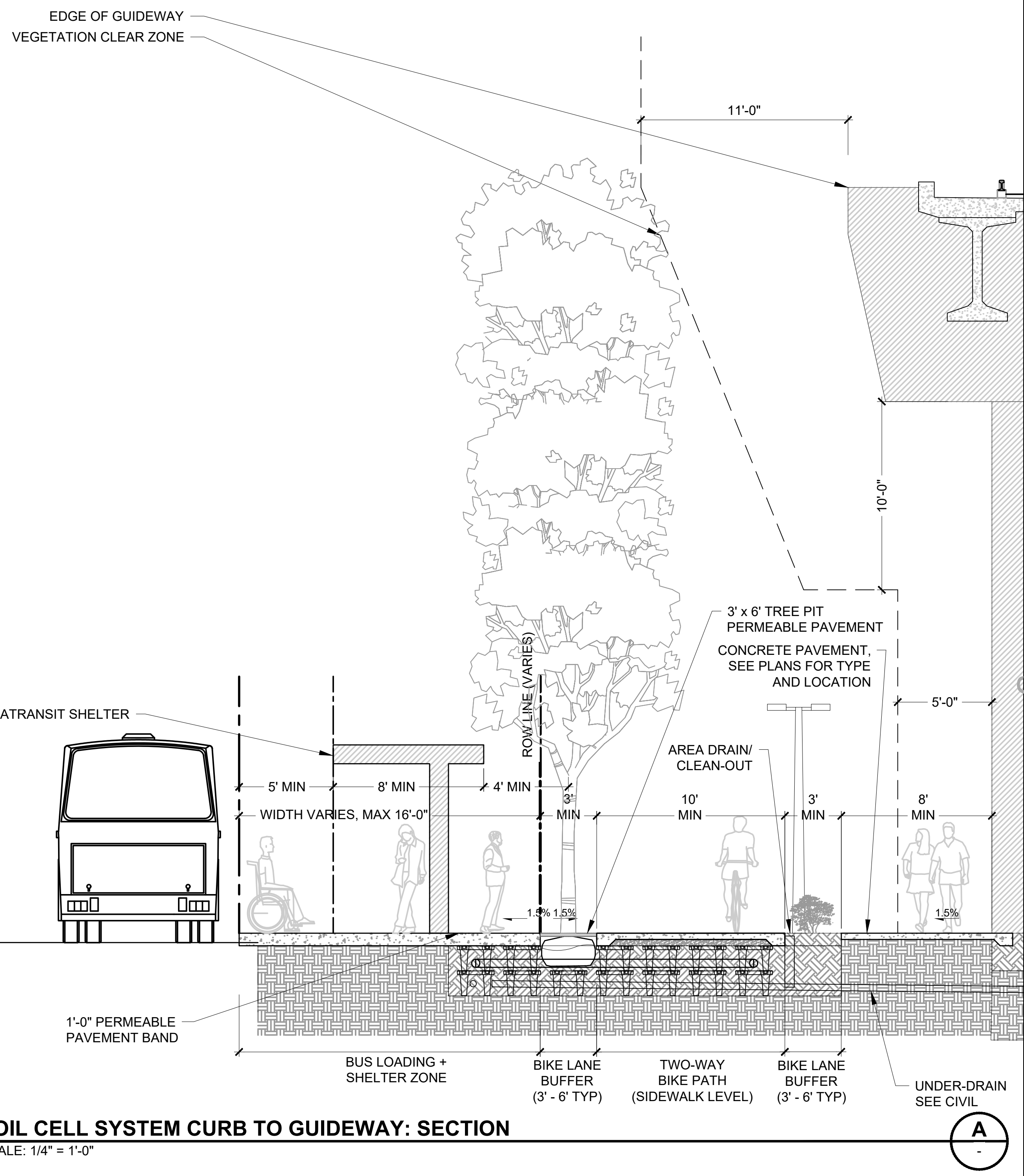
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**NOTES:**

1. SEE PLAN SETS FOR GENERAL NOTES FOR ALL MATERIALS, LAYOUT, GRADING AND DRAINAGE, LANDSCAPE AND IRRIGATION.



**SOIL CELL SYSTEM CURB TO GUIDEWAY: PLAN**  
SCALE: 1/4" = 1'-0"



**SOIL CELL SYSTEM CURB TO GUIDEWAY: SECTION**  
SCALE: 1/4" = 1'-0"

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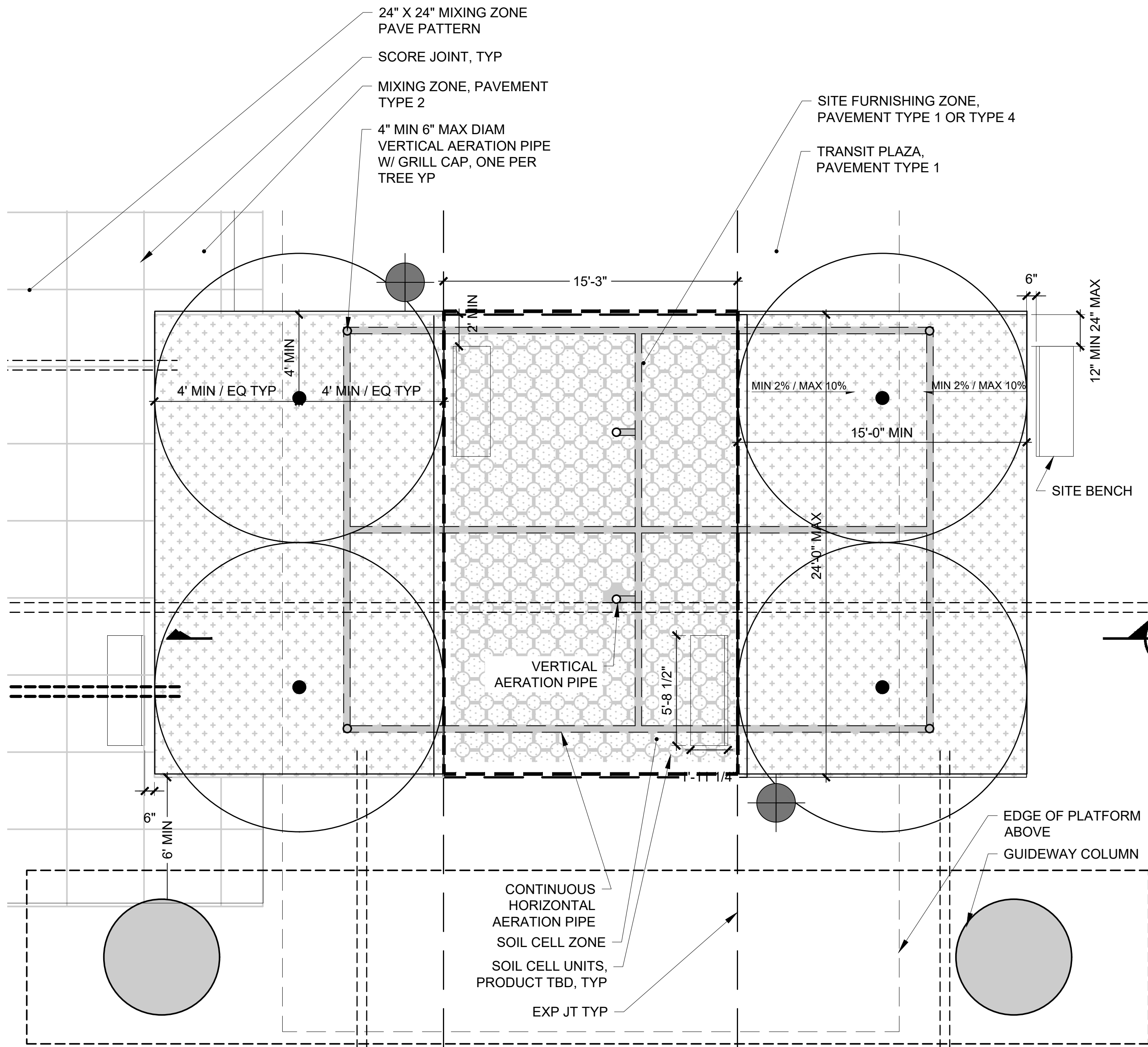
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**SOUND TRANSIT  
STANDARD DRAWINGS  
LANDSCAPE**

BUS STOP DETAIL PLAN AND SECTION

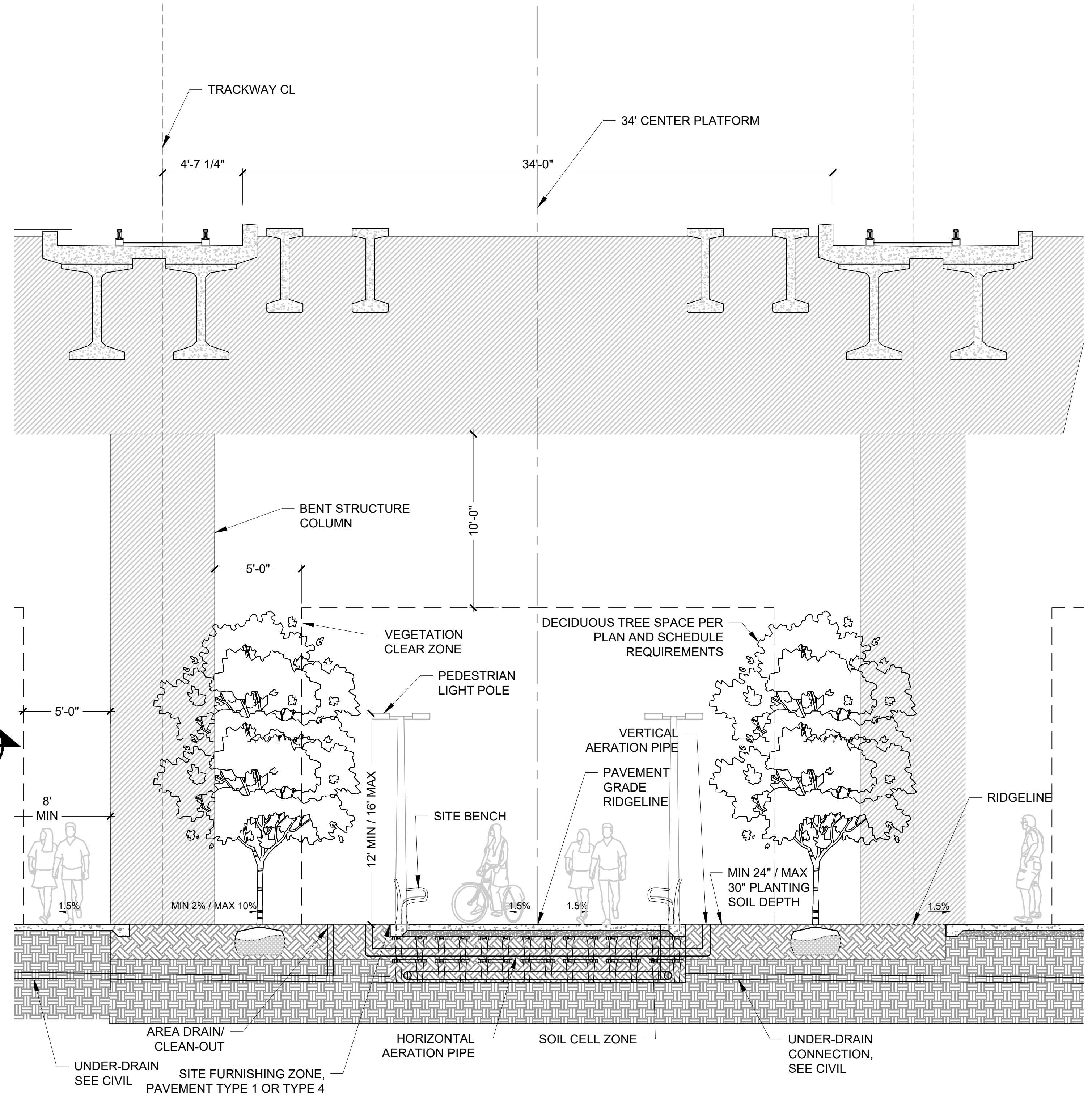
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- NOTES:**
- SEE PLAN SETS FOR GENERAL NOTES FOR ALL MATERIALS, LAYOUT, GRADING AND DRAINAGE, LANDSCAPE AND IRRIGATION.



**SOIL CELL SYSTEM UNDER PLATFORM / GUIDEWAY: PLAN**  
SCALE: 1/4" = 1'-0"

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**SOIL CELL SYSTEM UNDER PLATFORM / GUIDEWAY: SECTION**  
SCALE: 1/4" = 1'-0"

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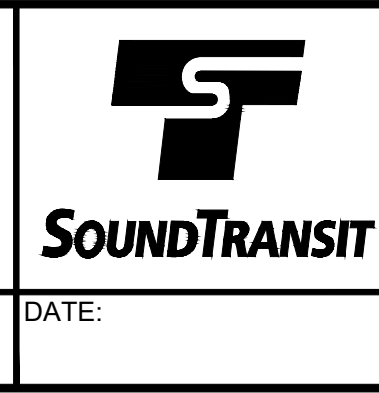
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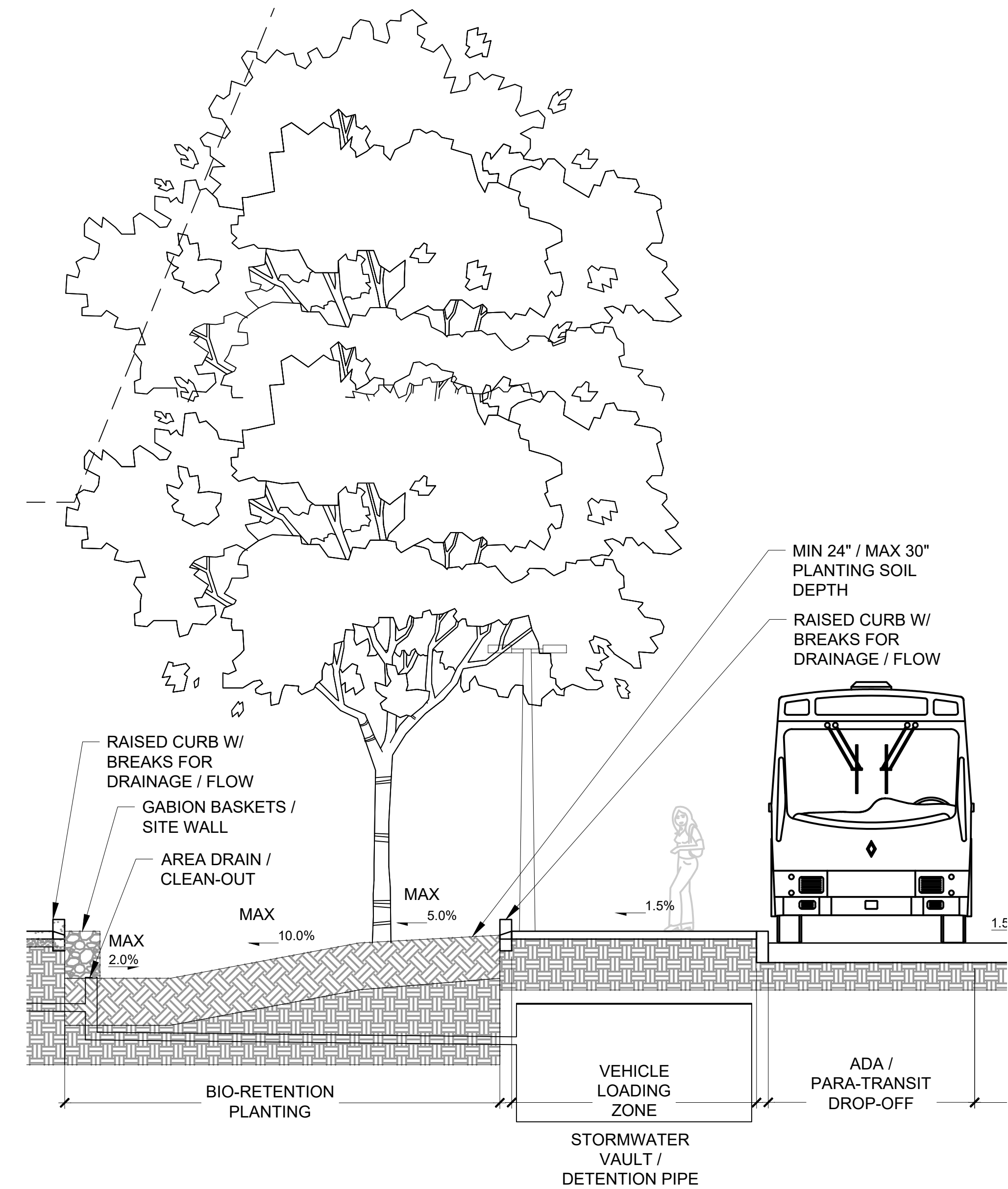
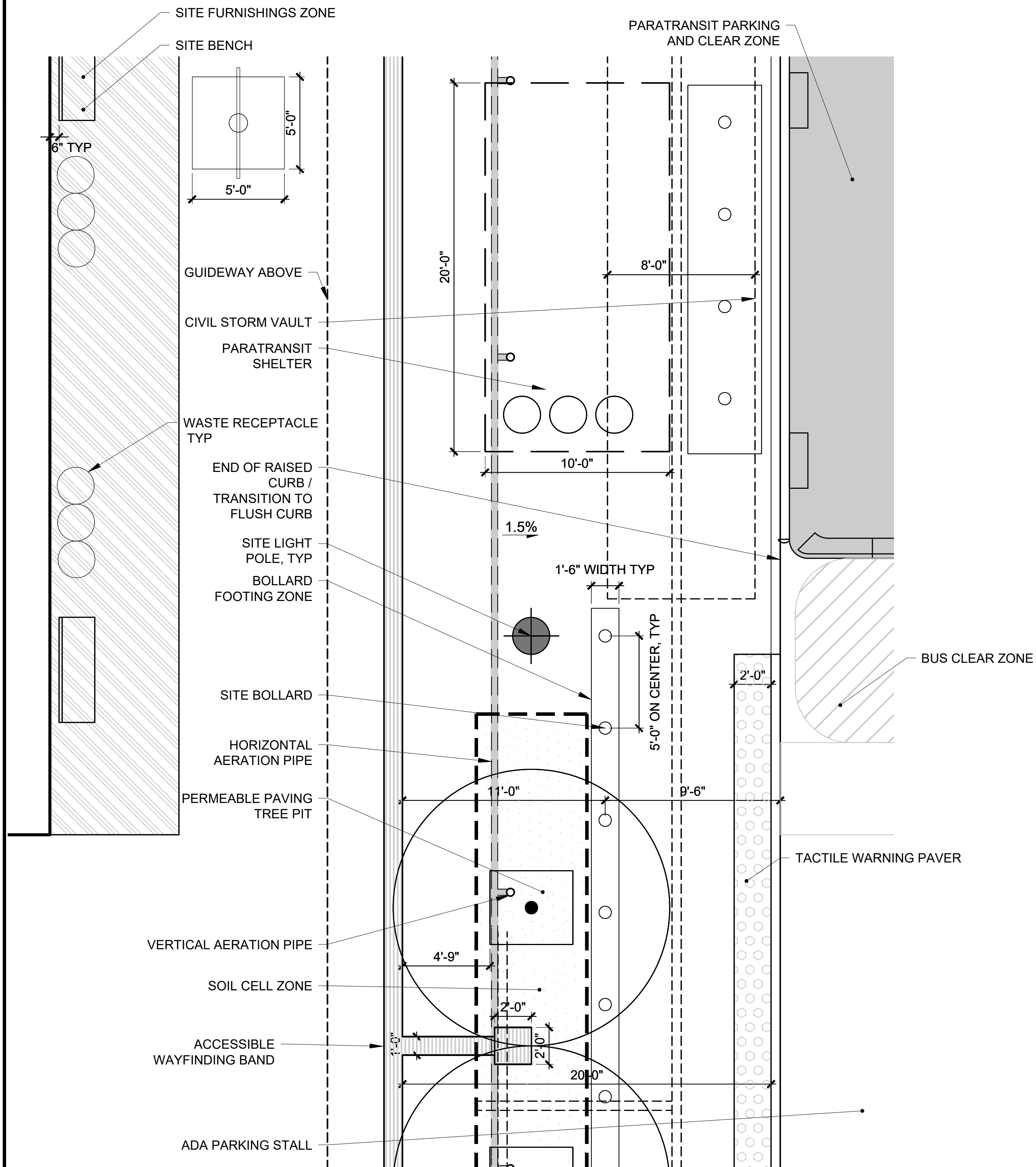
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| SOIL CELL UNDER GUIDEWAY DETAIL<br>PLAN AND SECTION      |  |

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| FACILITY ID: |                   |
| SHEET No.:   | REV:<br>0         |

**NOTES:**

- SEE PLAN SETS FOR GENERAL NOTES FOR ALL MATERIALS, LAYOUT, GRADING AND DRAINAGE, LANDSCAPE AND IRRIGATION.




**BIO-RETENTION PLANTER AND ACCESS DRIVE: PLAN**  
NTS

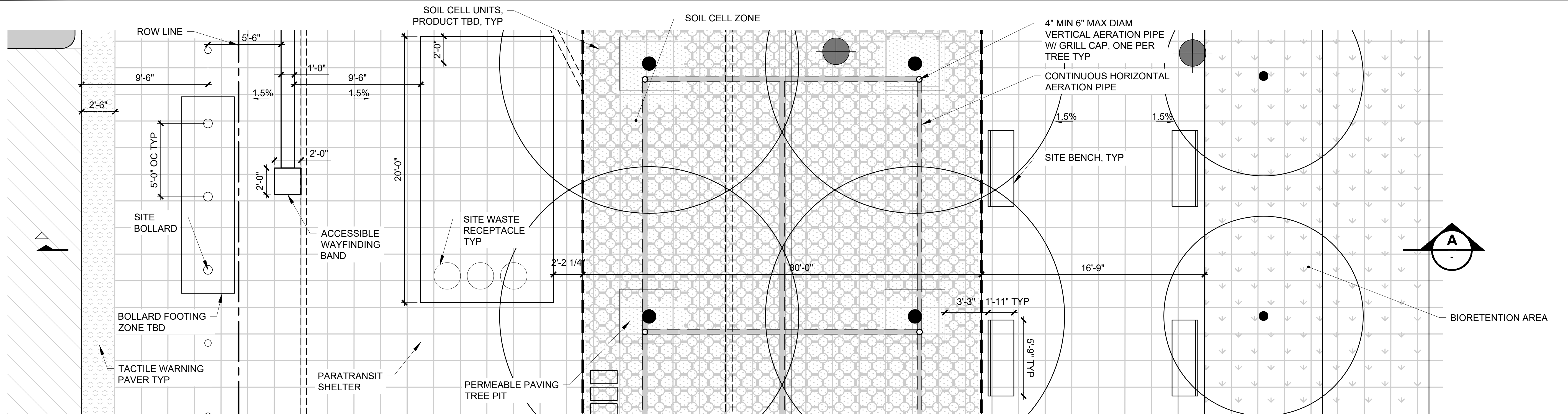
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**BIO-RETENTION PLANTER AND ACCESS DRIVE: SECTION**  
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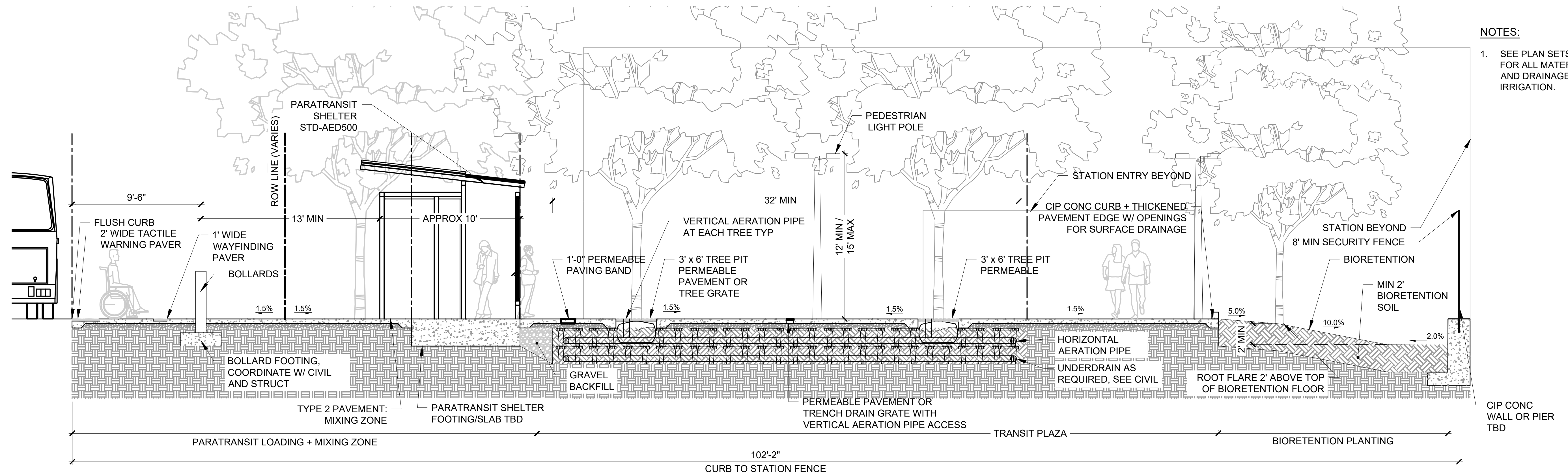
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**BIO-RETENTION PLANTER AND ACCESS DRIVE: PLAN**

SCALE: 1/4" = 1'-0"

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**BIO-RETENTION PLANTER AND ACCESS DRIVE: SECTION**

SCALE: 1/4" = 1'-0"

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- NOTES:**
- SEE PLAN SETS FOR GENERAL NOTES FOR ALL MATERIALS, LAYOUT, GRADING AND DRAINAGE, LANDSCAPE AND IRRIGATION.

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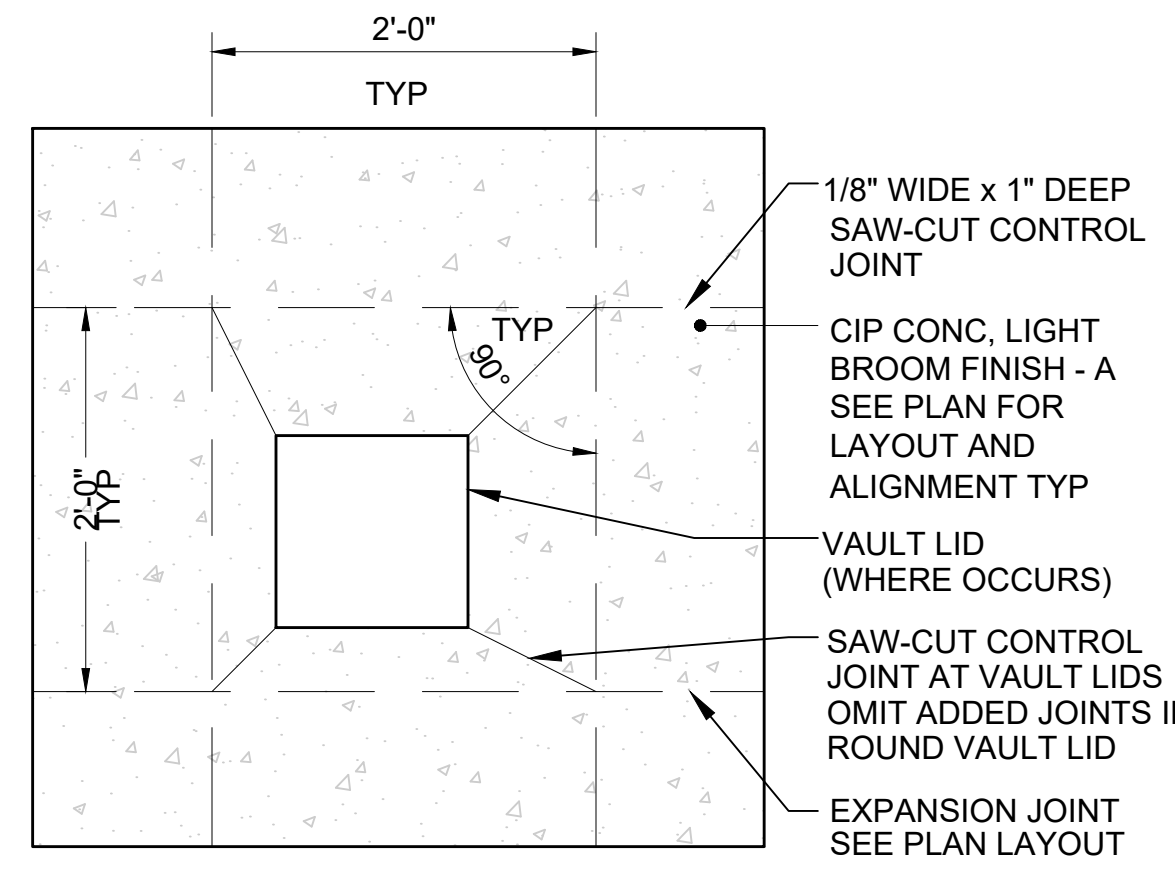
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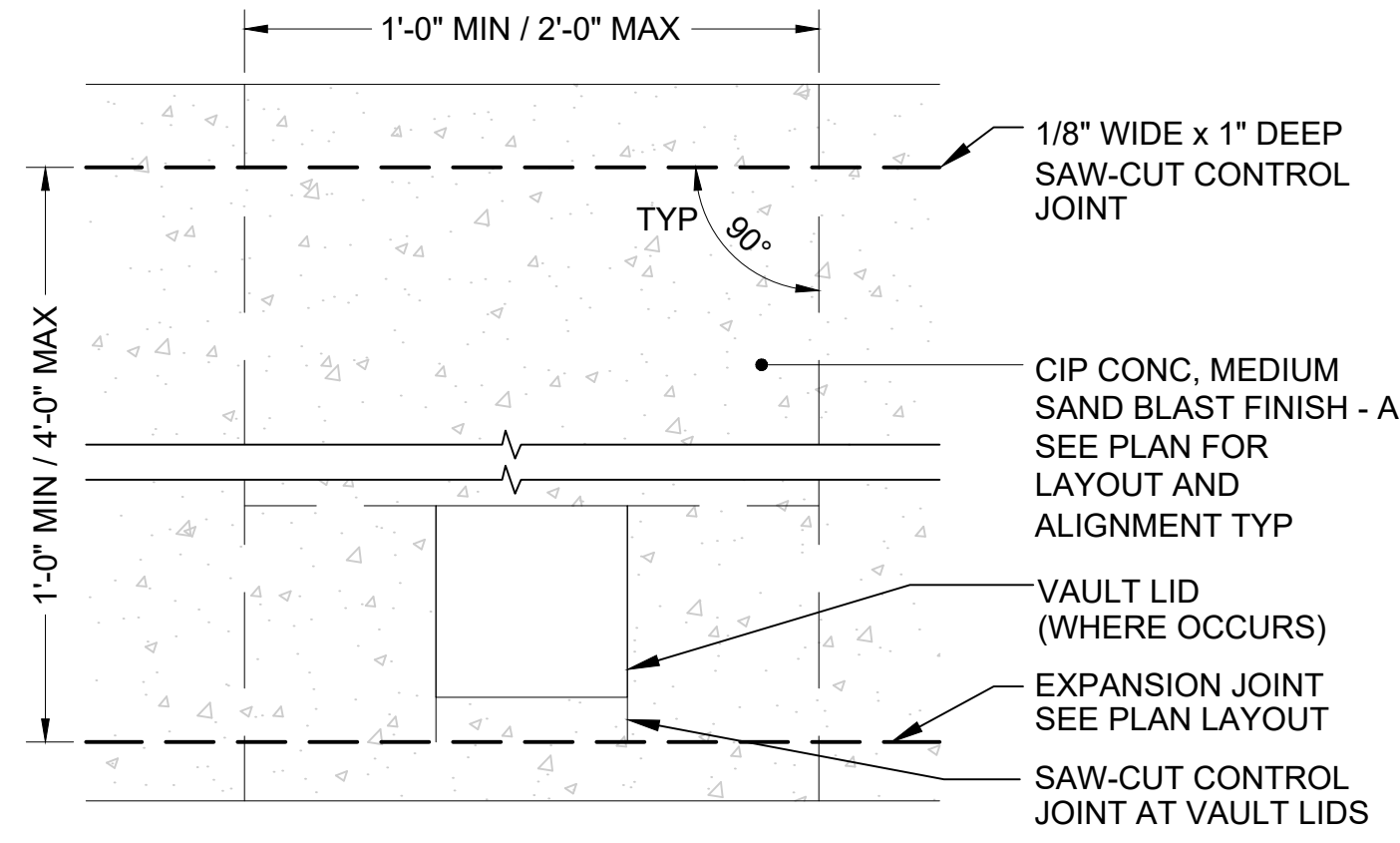
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| TUNNEL PLAZA DETAIL PLAN AND SECTION                     |  |

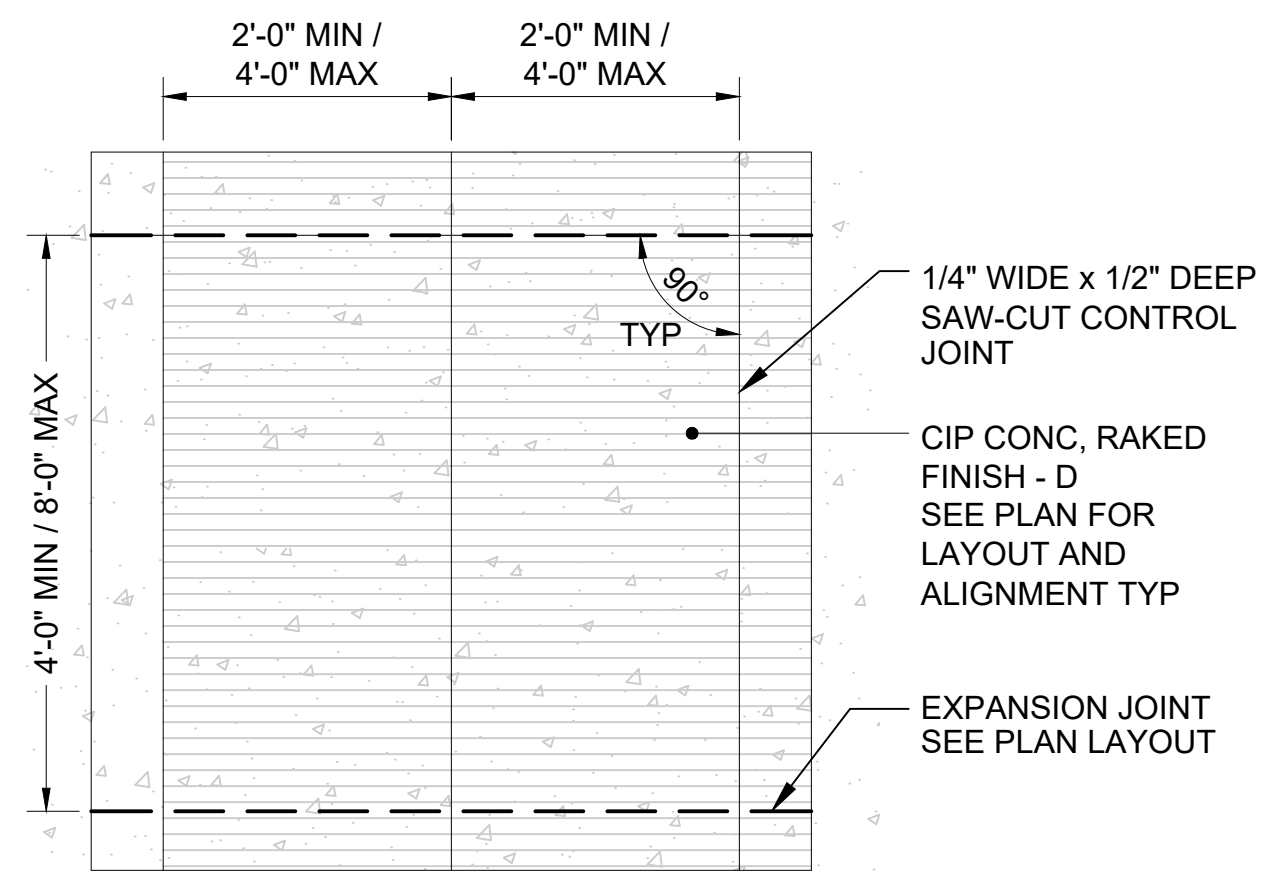
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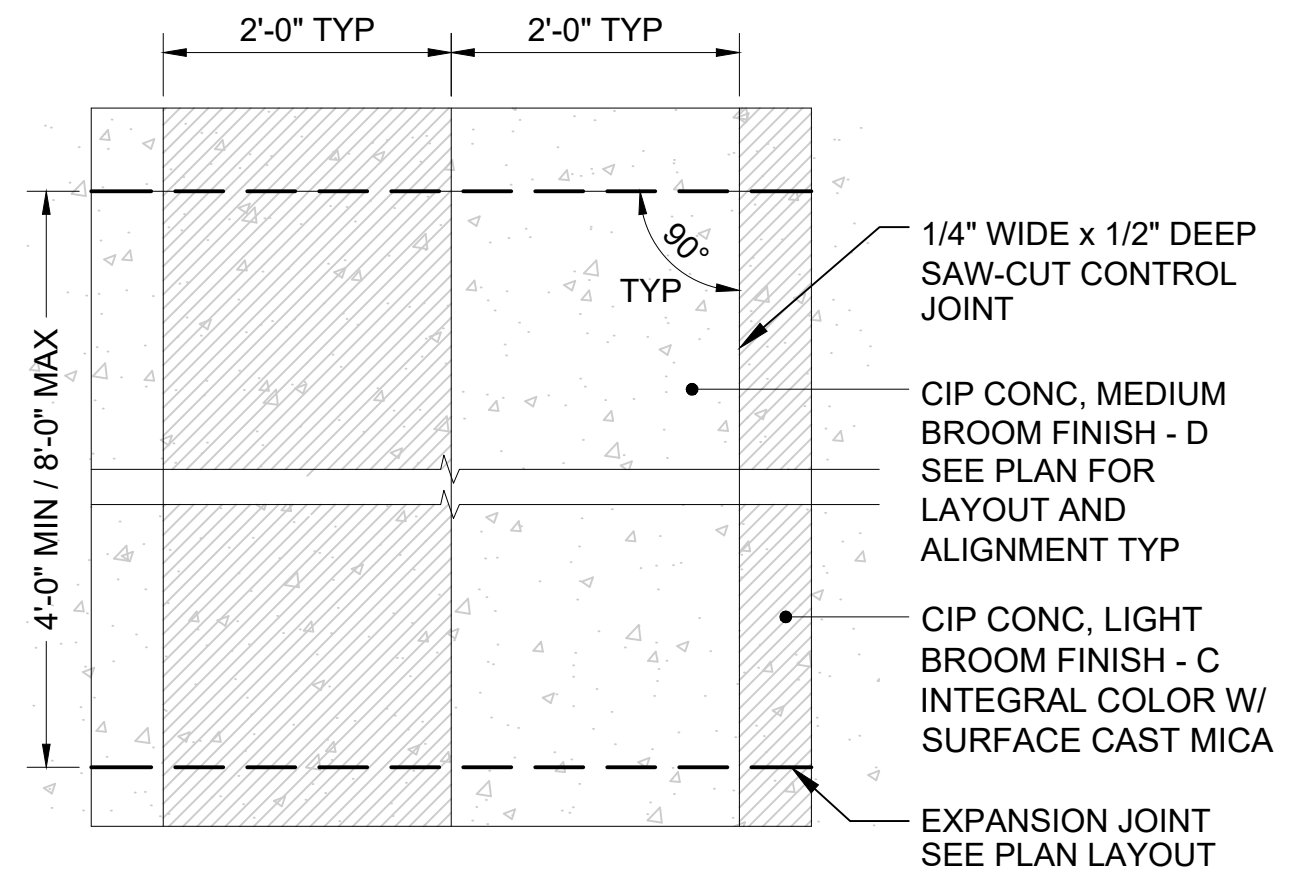
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NTS



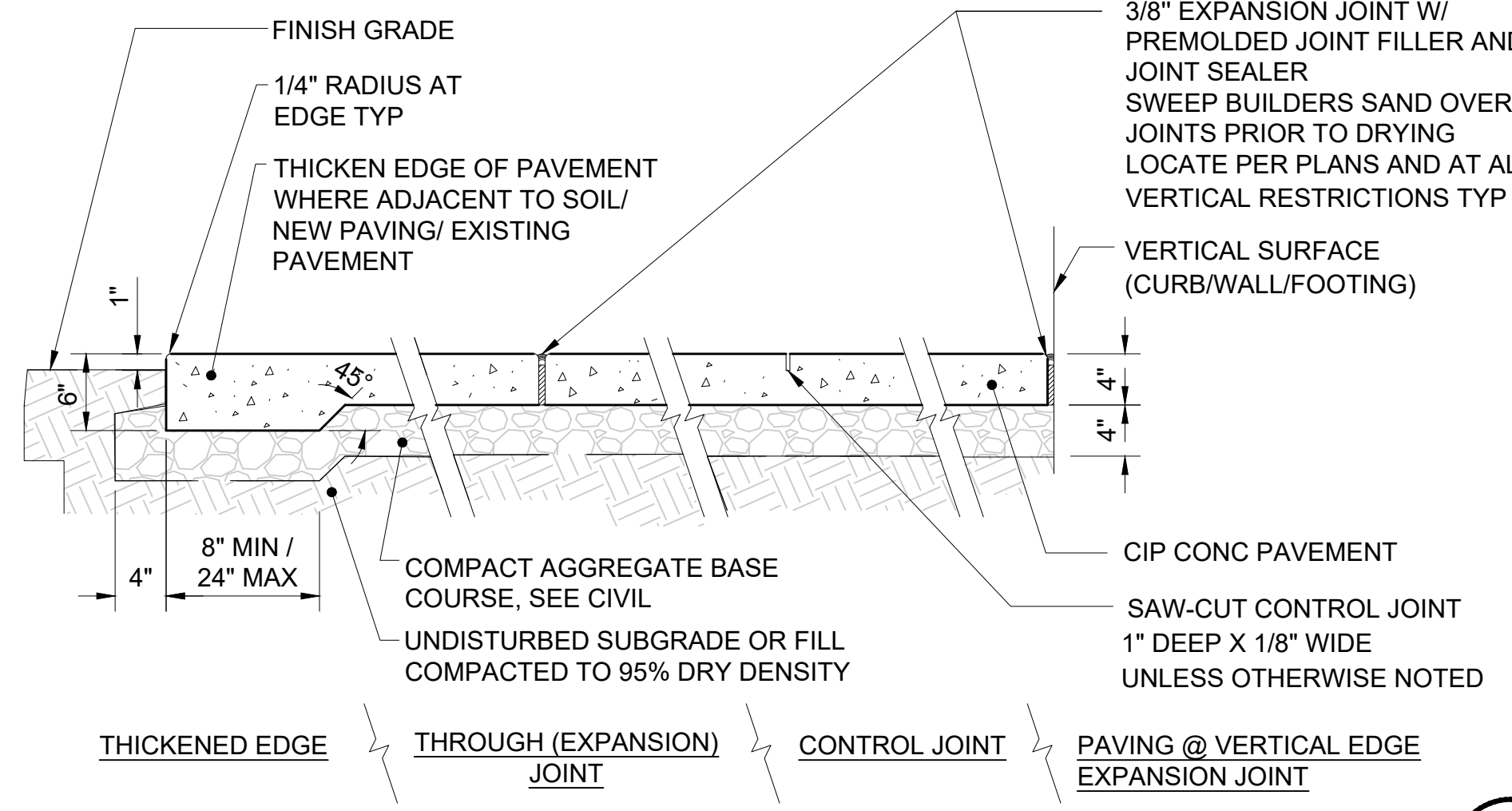
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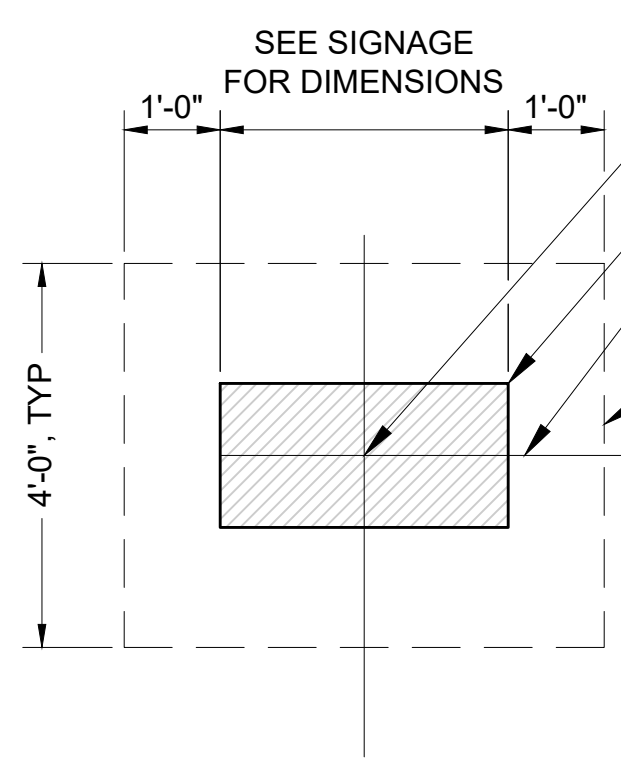
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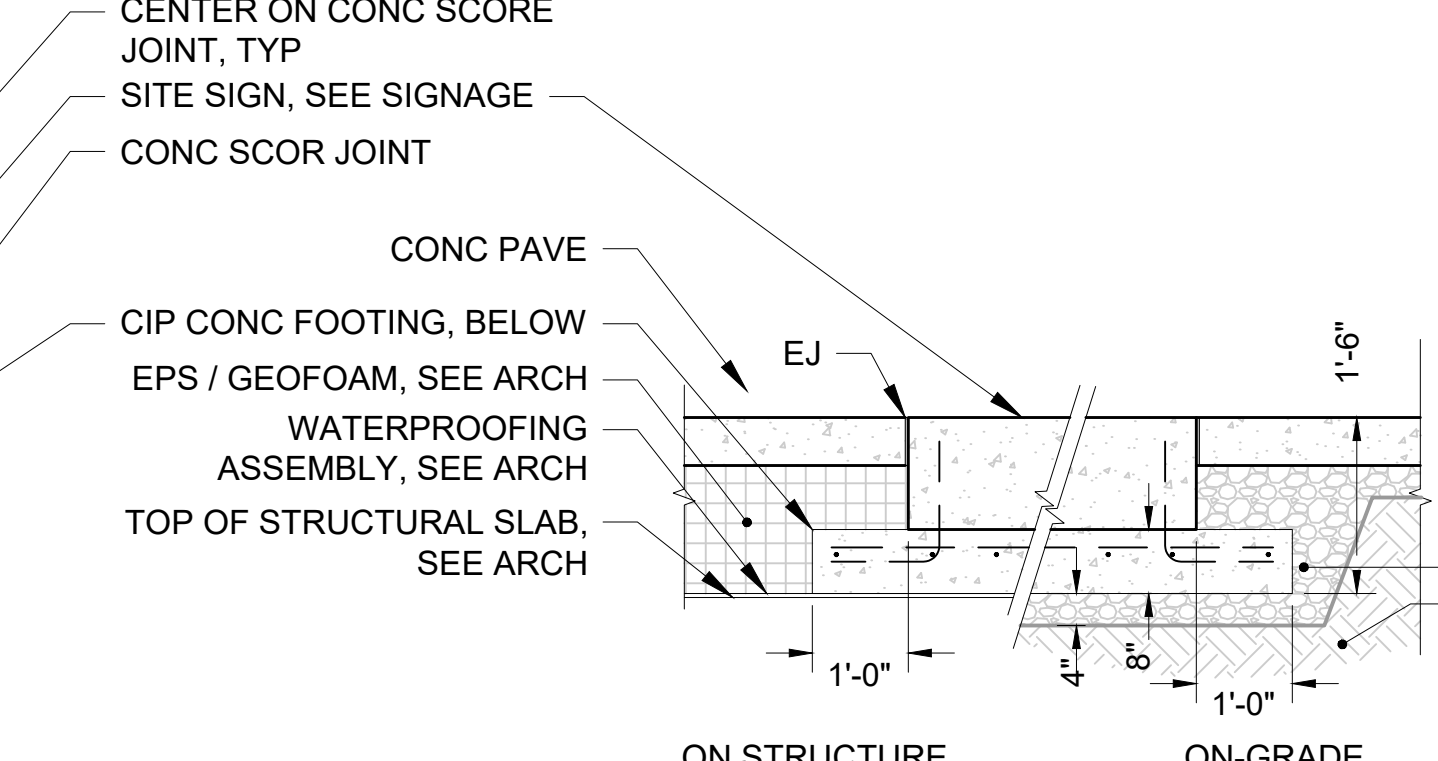
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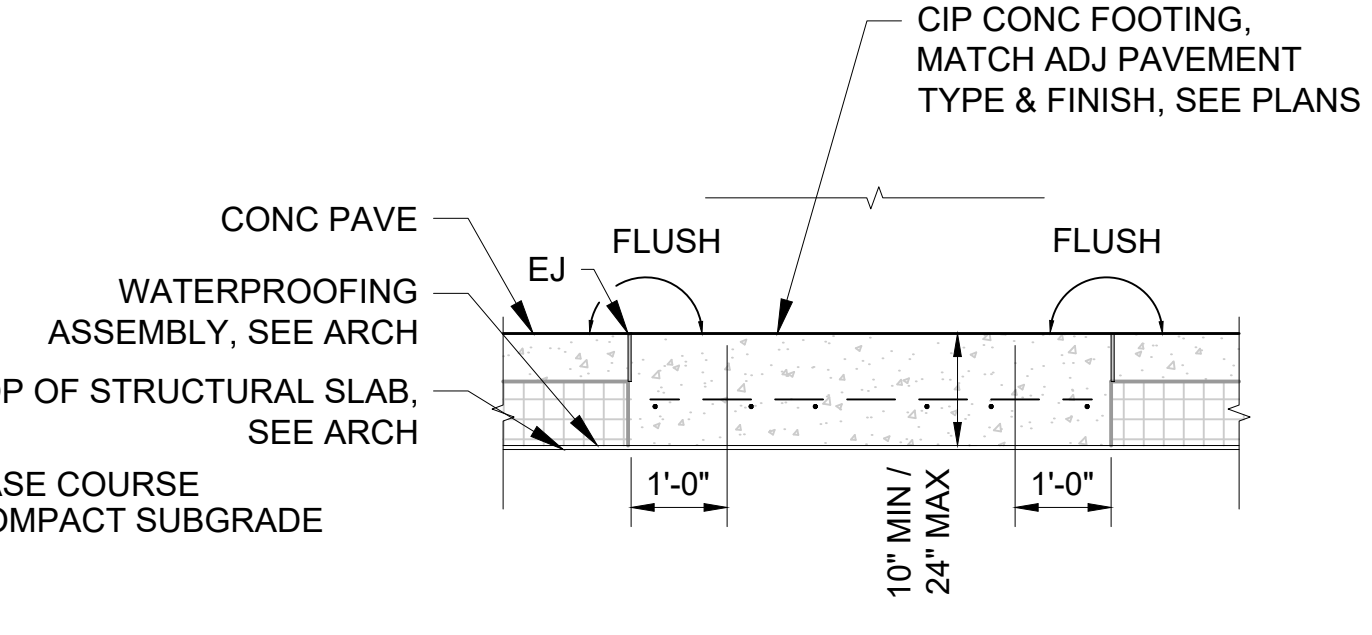
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**FLUSH SIGN FOOTING - PLAN**



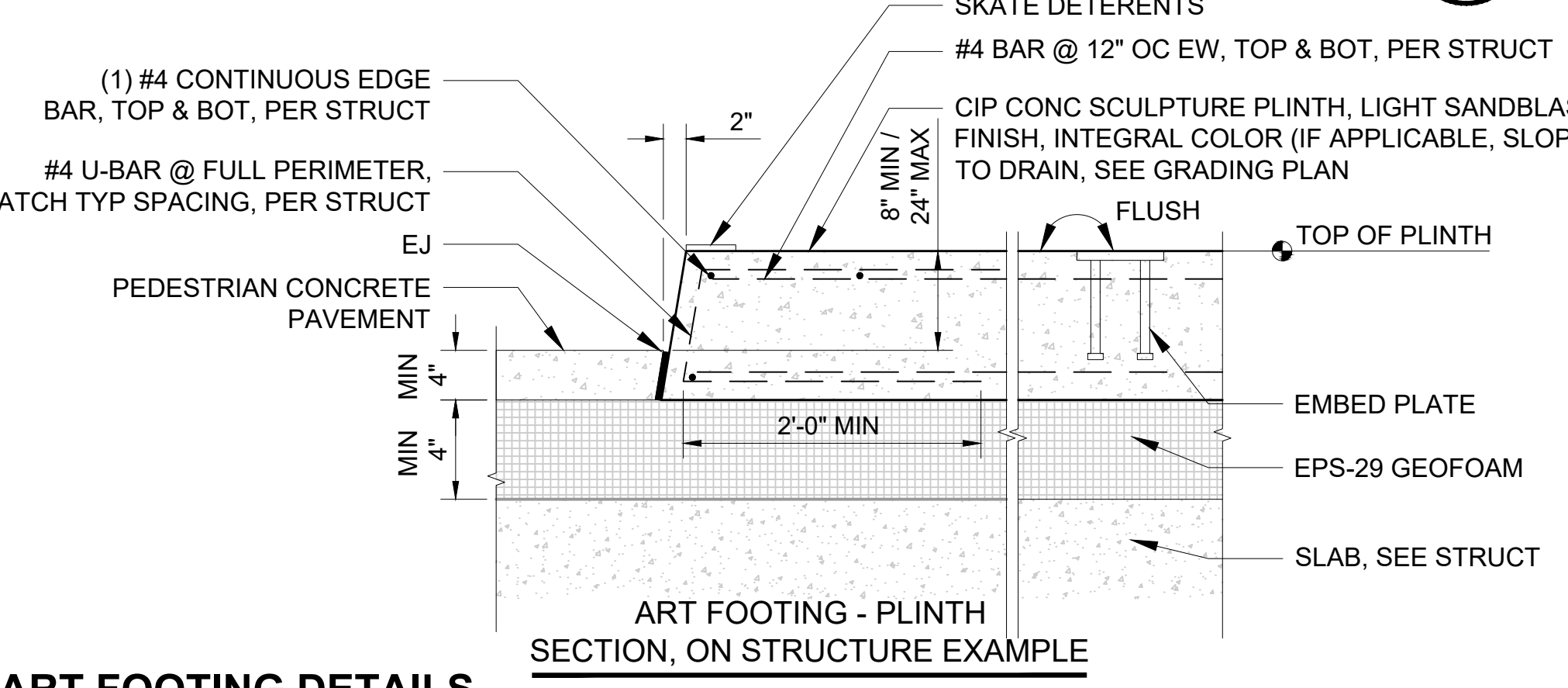
**FLUSH SIGN FOOTING - SECTION**



**NOTE: ON-STRUCTURE SHALLOW DEPTH FLUSH SIGN FOOTING - SECTION**

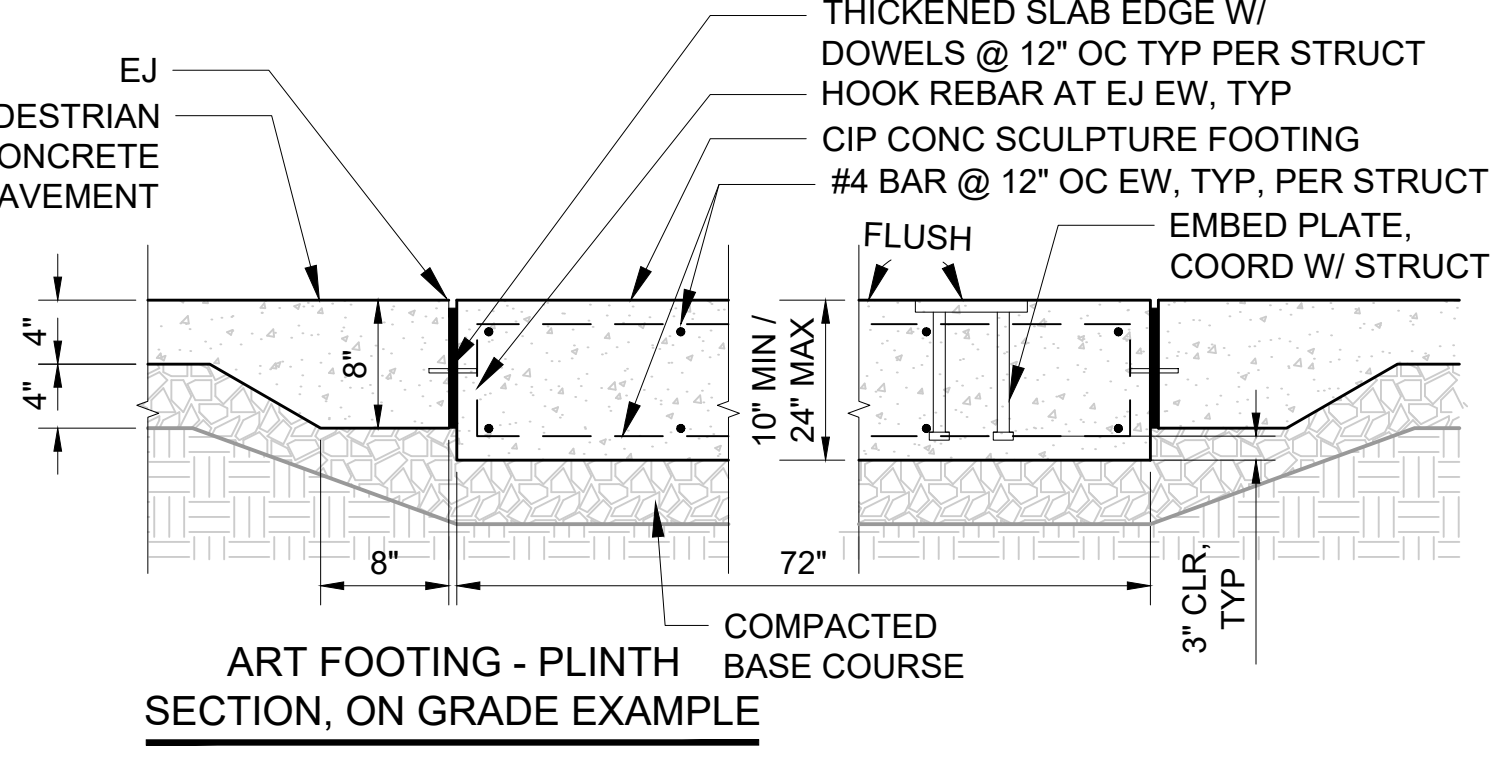
**SIGNAGE FOOTING DETAILS**

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**ART FOOTING DETAILS**

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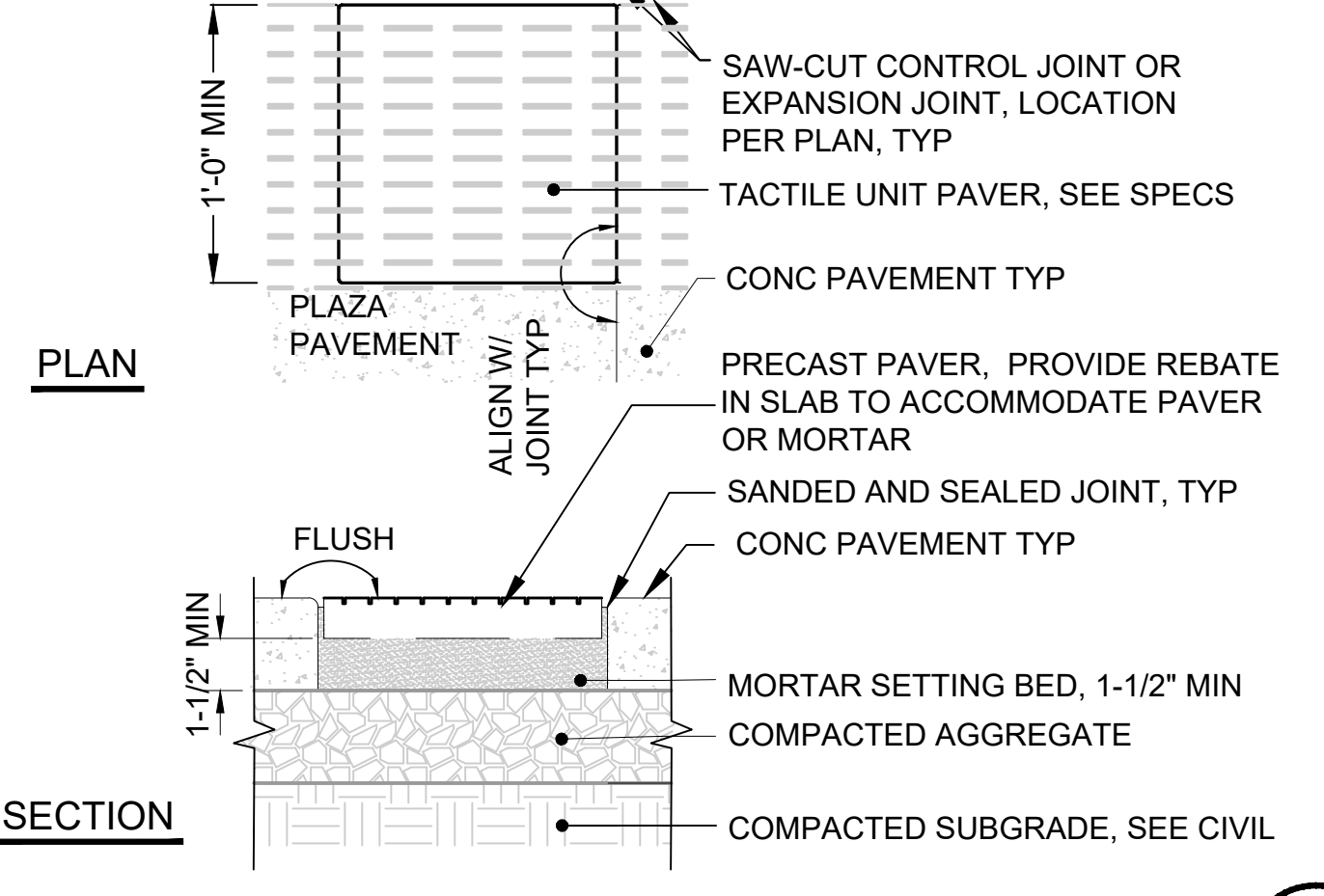
**ART FOOTING - PLINTH SECTION, ON GRADE EXAMPLE**

- NOTES**
- SEE PLANS FOR EXTENT OF CONCRETE, FINISH TYPE, AND JOINT LOCATIONS.
  - SEE ARCH FOR WATERPROOFING ON ALL BUILDING SURFACES. COORDINATE INSTALLATION OF PAVEMENT AND RELATED CONNECTIONS WITH WATERPROOFING INSTALLATION.

07

**TACTILE WARNING PAVER**

NTS



**TACTILE WARNING PAVER**

NTS

06

08

01/30/25 | 3:44 PM | JUSLEAMAKER E:\00-PROJECTS\LR STA STANDARDS - 20250302-TAKS 05 STATION CONFIGURATIONS\05-CAD\06-ST UPLOAD FINAL\STD-LHD101.DWG

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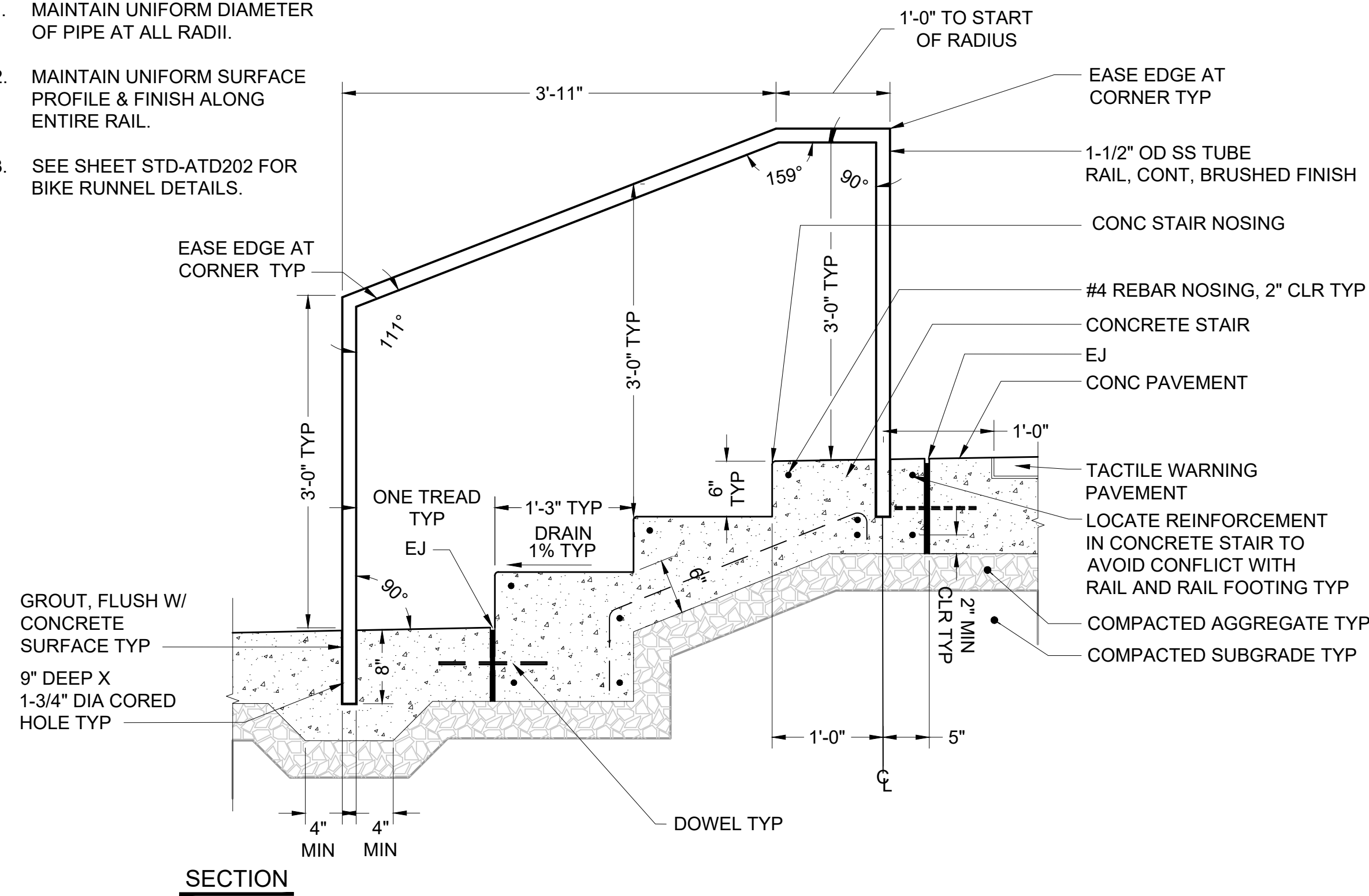
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| <b>SOUND TRANSIT STANDARD DRAWINGS LANDSCAPE</b> |  |
| PEDESTRIAN PAVEMENT FINISH DETAILS               |  |

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| DRAWING No.: | STD-LHD101 |
| FACILITY ID: |            |
| SHEET No.:   | REV: 0     |



**NOTES:**

1. MAINTAIN UNIFORM DIAMETER OF PIPE AT ALL RADII.
2. MAINTAIN UNIFORM SURFACE PROFILE & FINISH ALONG ENTIRE RAIL.
3. SEE SHEET STD-ATD202 FOR BIKE RUNNEL DETAILS.



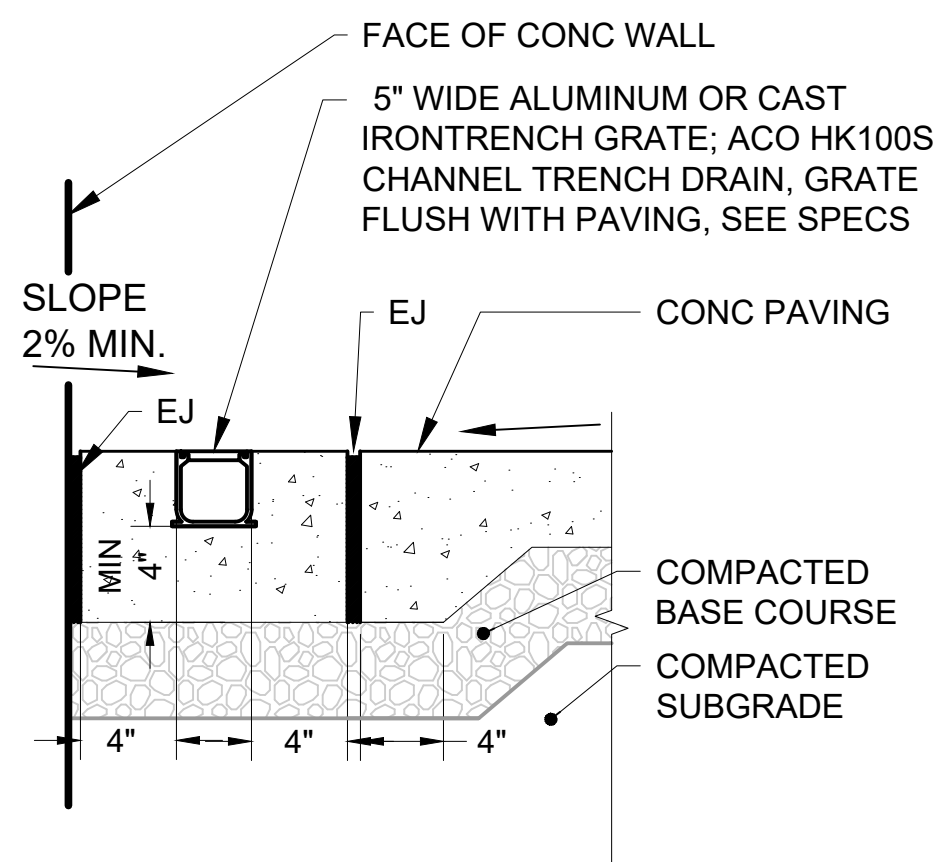
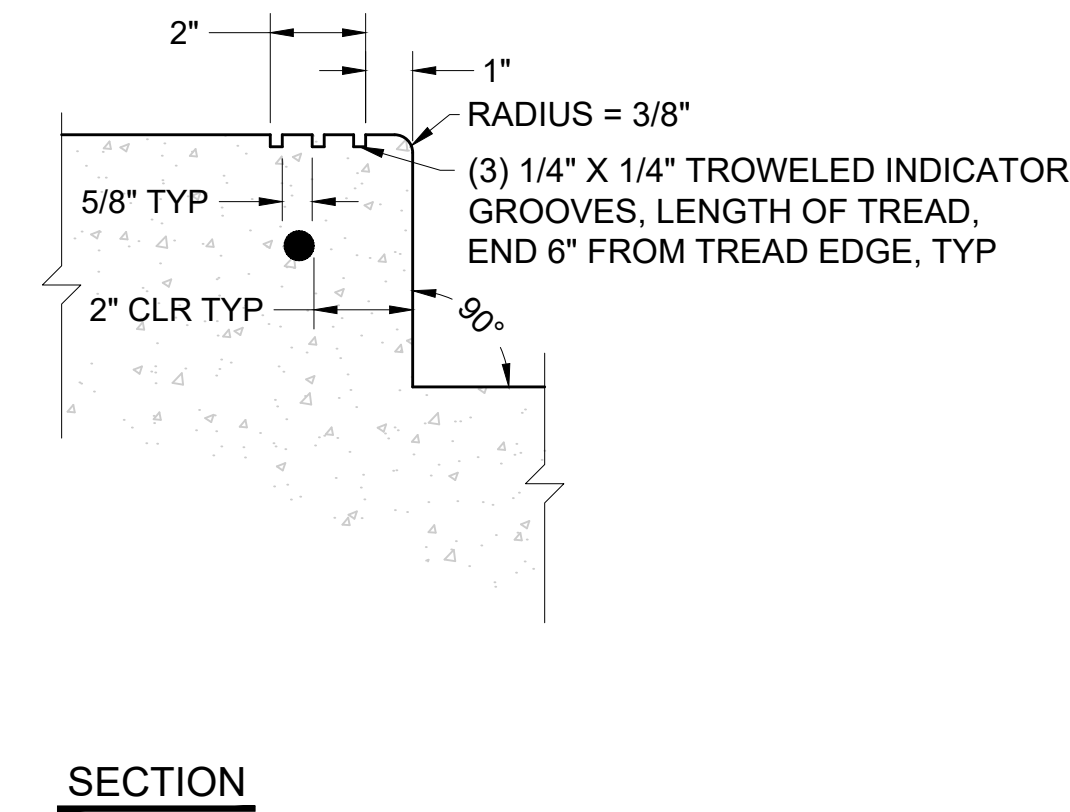
**CIP CONC SITE STAIR AND HANDRAIL**

SCALE: 1" = 1'-0"

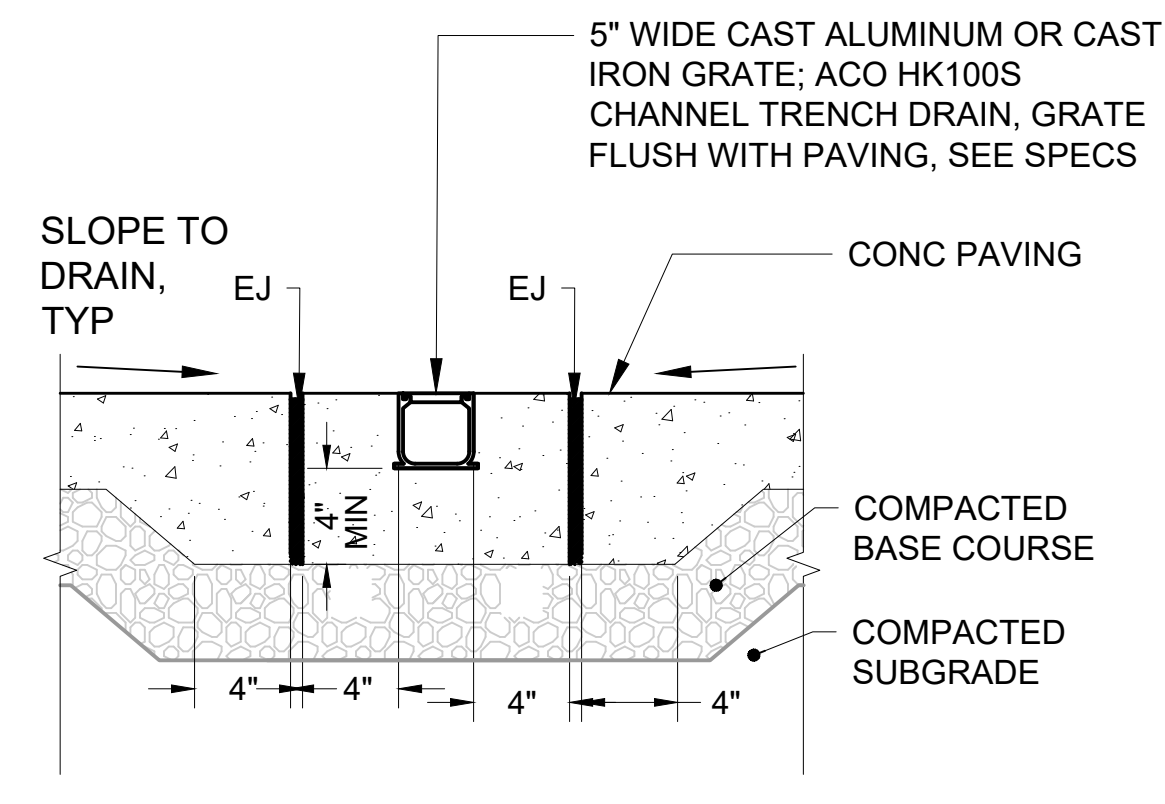
01

**CIP CONC SITE STAIR NOSING**

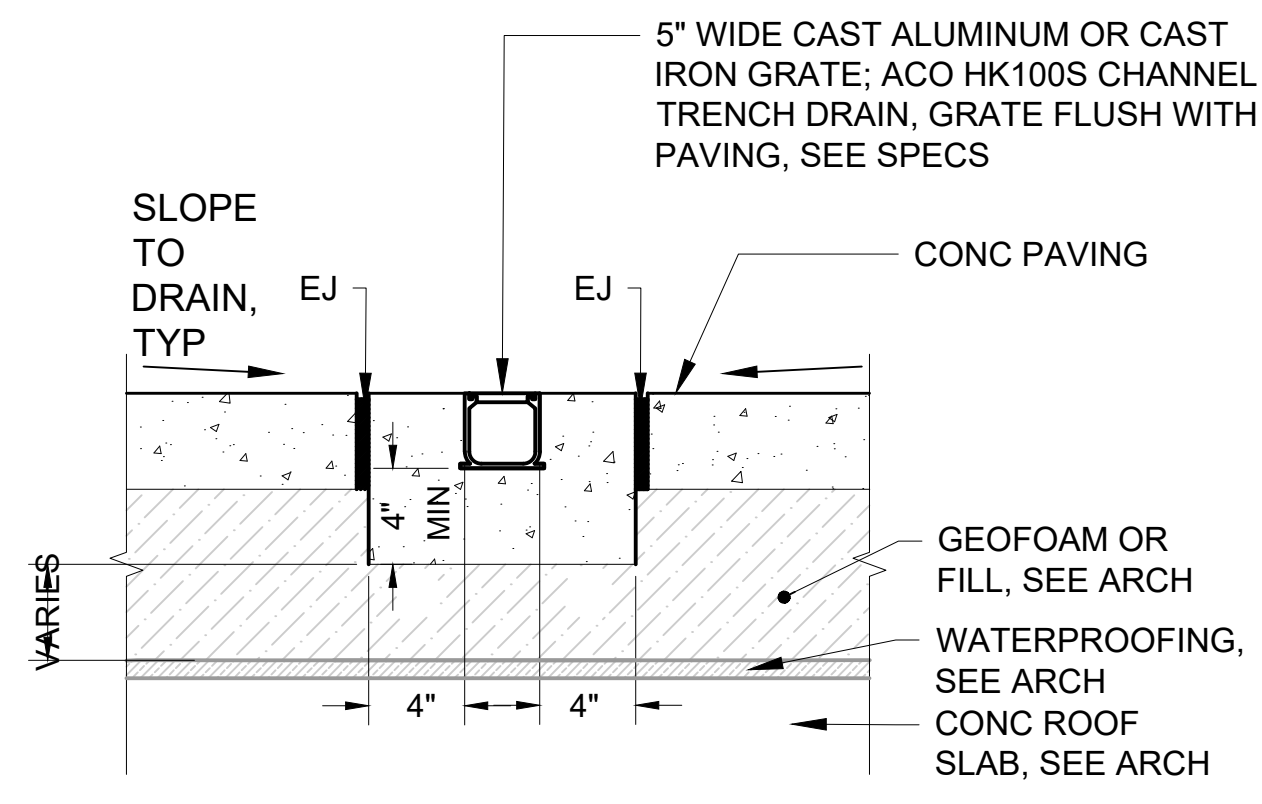
SCALE: 3" = 1'-0"



SECTION AT CONC WALL



SECTION IN CONC PAVEMENT



SECTION IN CONC PAVEMENT OVER STRUCTURE

**TRENCH DRAIN IN CONCRETE**

SCALE: 1" = 1'-0"

03

01/30/25 | 3:45 PM | JSLEAMAKER E:\00-PROJECTS\LR STA STANDARDS - 20230302-TAKS 05 STATION CONFIGURATIONS\05-CAD\06-ST UPLOAD FINAL\STD-LHD102.DWG

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| DRAWN BY:    |         |     |     |     |             |
| CHECKED BY:  |         |     |     |     |             |
| APPROVED BY: |         |     |     |     |             |
| 0            | 12/2024 |     |     |     | NEW DRAWING |
| No.          | DATE    | DSN | CHK | APP | REVISION    |

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| DESIGNED BY: |  |
| DRAWN BY:    |  |
| CHECKED BY:  |  |
| APPROVED BY: |  |

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| SUBMITTED BY: |  |
| DATE:         |  |
| REVIEWED BY:  |  |
| DATE:         |  |

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| FILENAME:     | STD-LHD102.DWG |
| CONTRACT No.: |                |

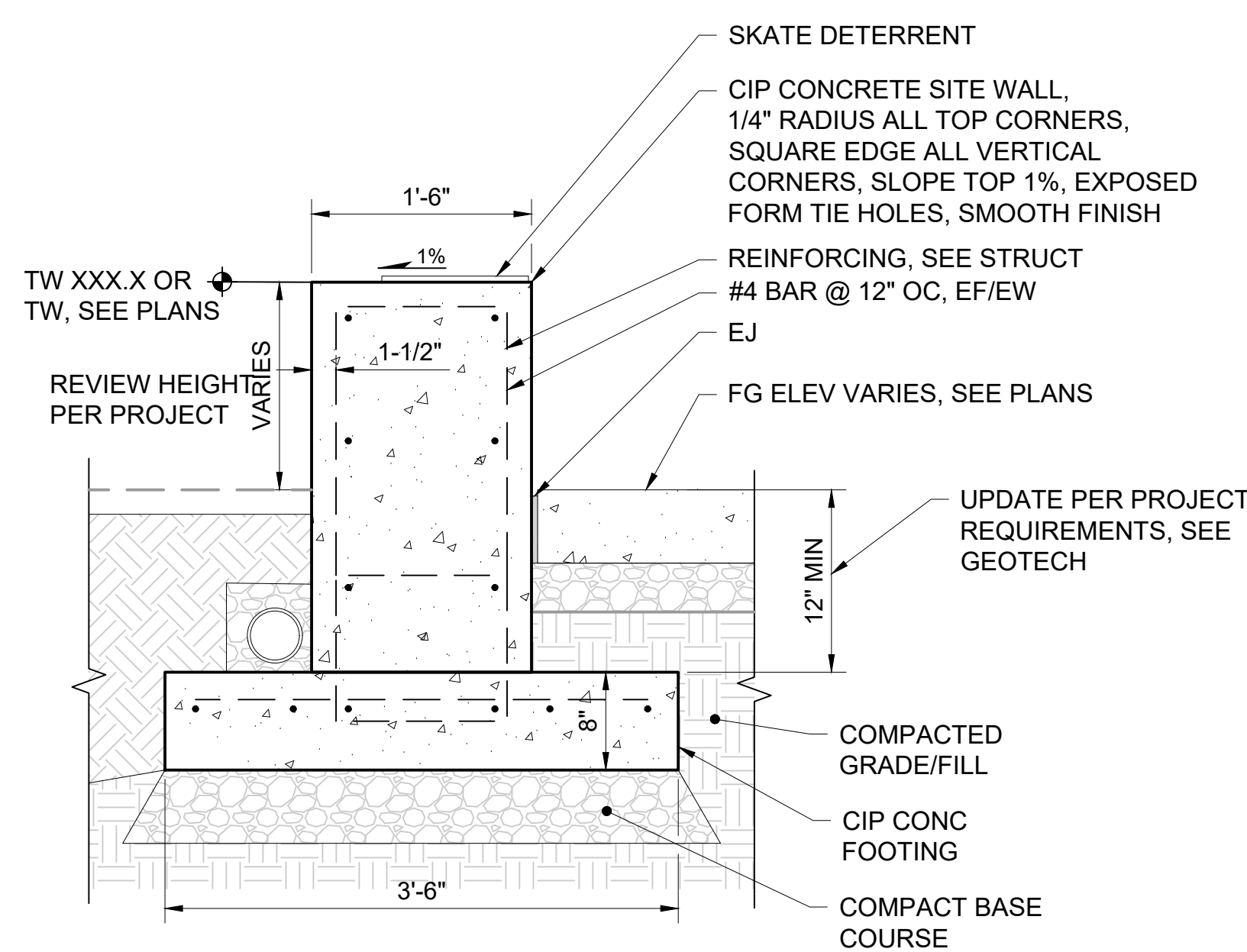
LINE IS AT FULL SCALE

SCALE: AS NOTED  
FILENAME: STD-LHD102.DWG  
CONTRACT No.:

**SOUND TRANSIT  
STANDARD DRAWINGS  
LANDSCAPE**

SITE STAIR AND TRENCH DRAIN DETAILS

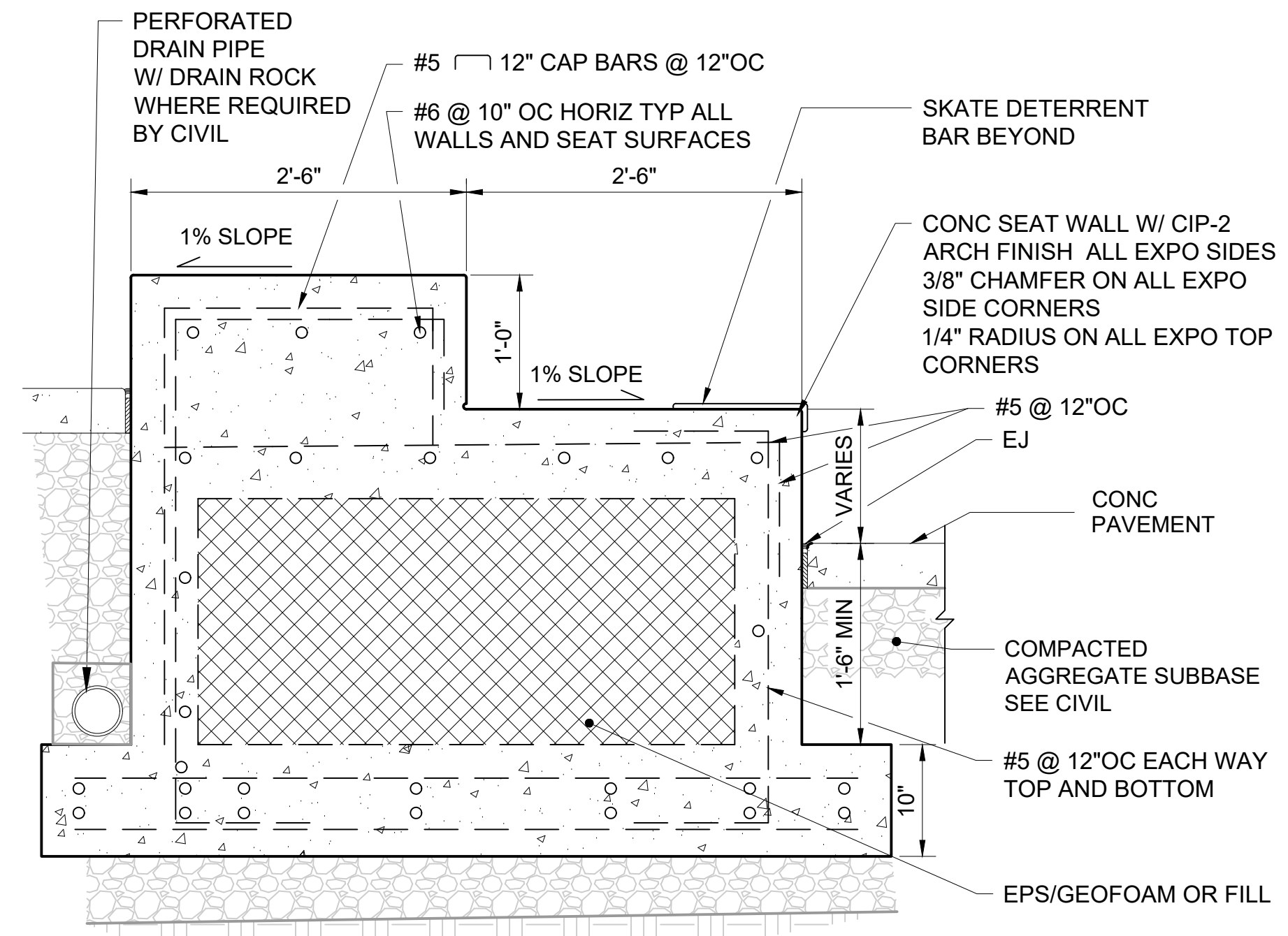
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| DRAWING No.: | <b>STD-LHD102</b> |
| FACILITY ID: |                   |
| SHEET No.:   | REV: 0            |



**CIP CONCRETE SEAT WALL ON GRADE**

SCALE: 1" = 1'-0"

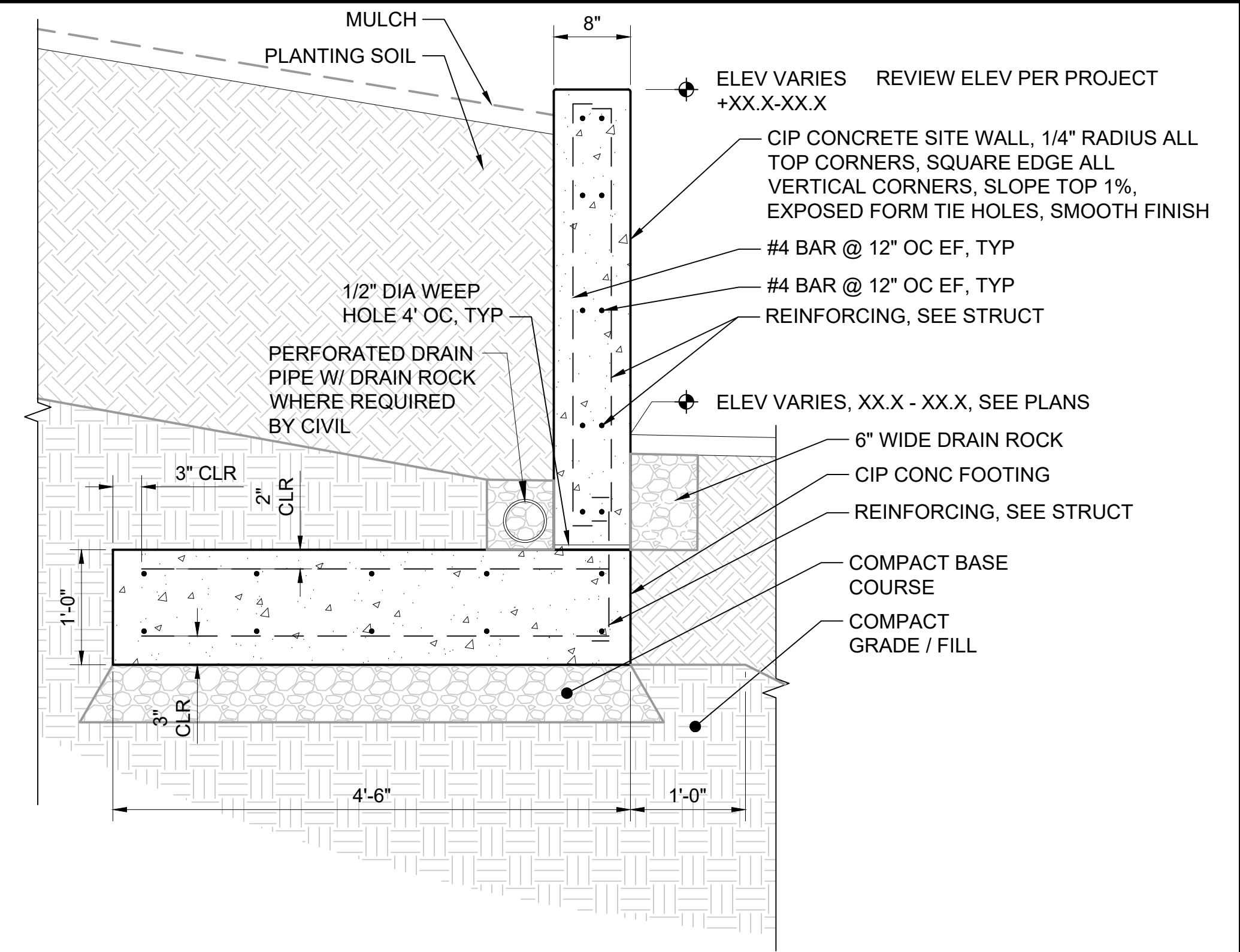
**01**



**CIP CONCRETE SEAT WALL ON GRADE - MULTI-STEP**

SCALE: 1" = 1'-0"

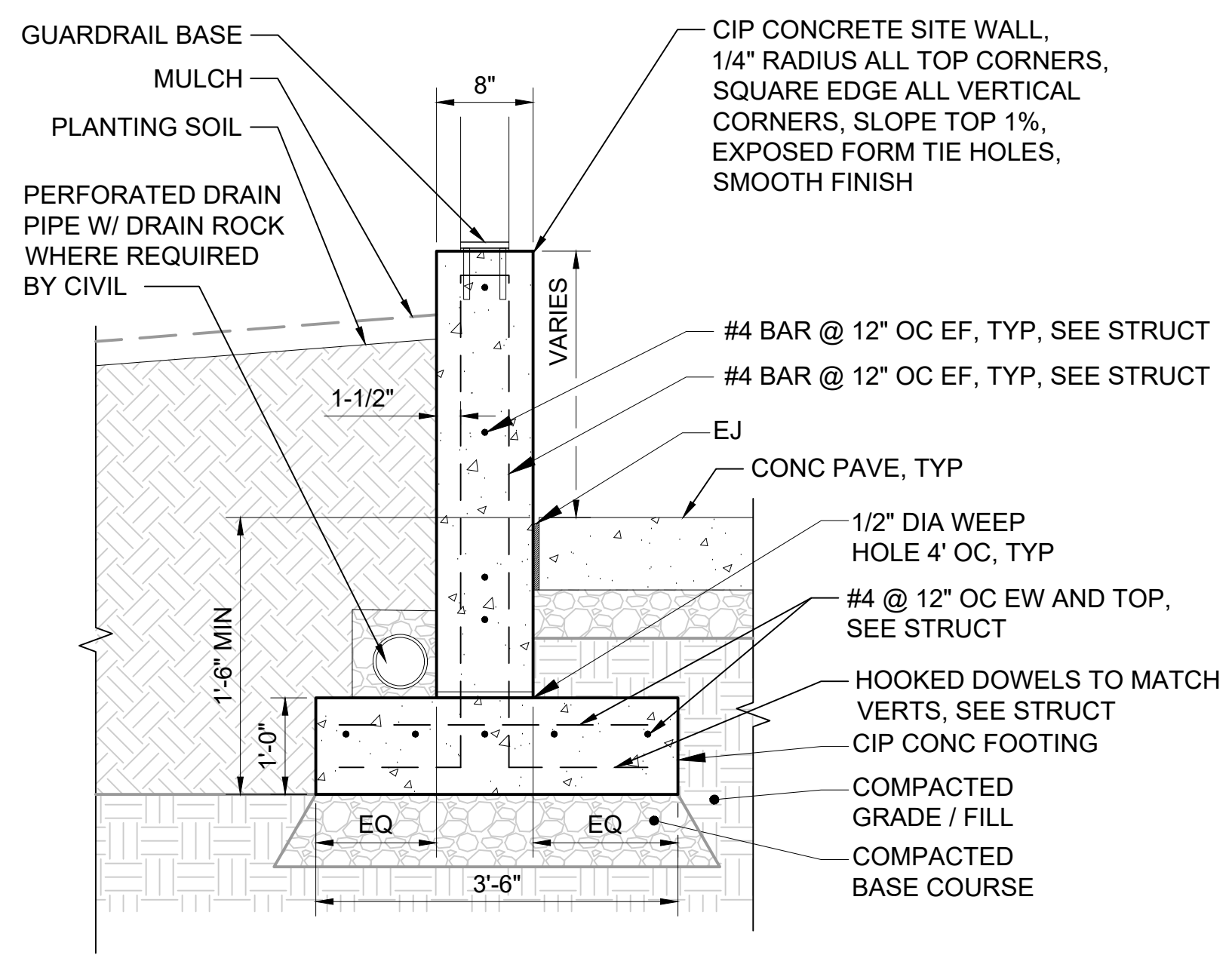
**02**



**CIP CONCRETE WALL ON-GRADE AT PLANTING**

SCALE: 1" = 1'-0"

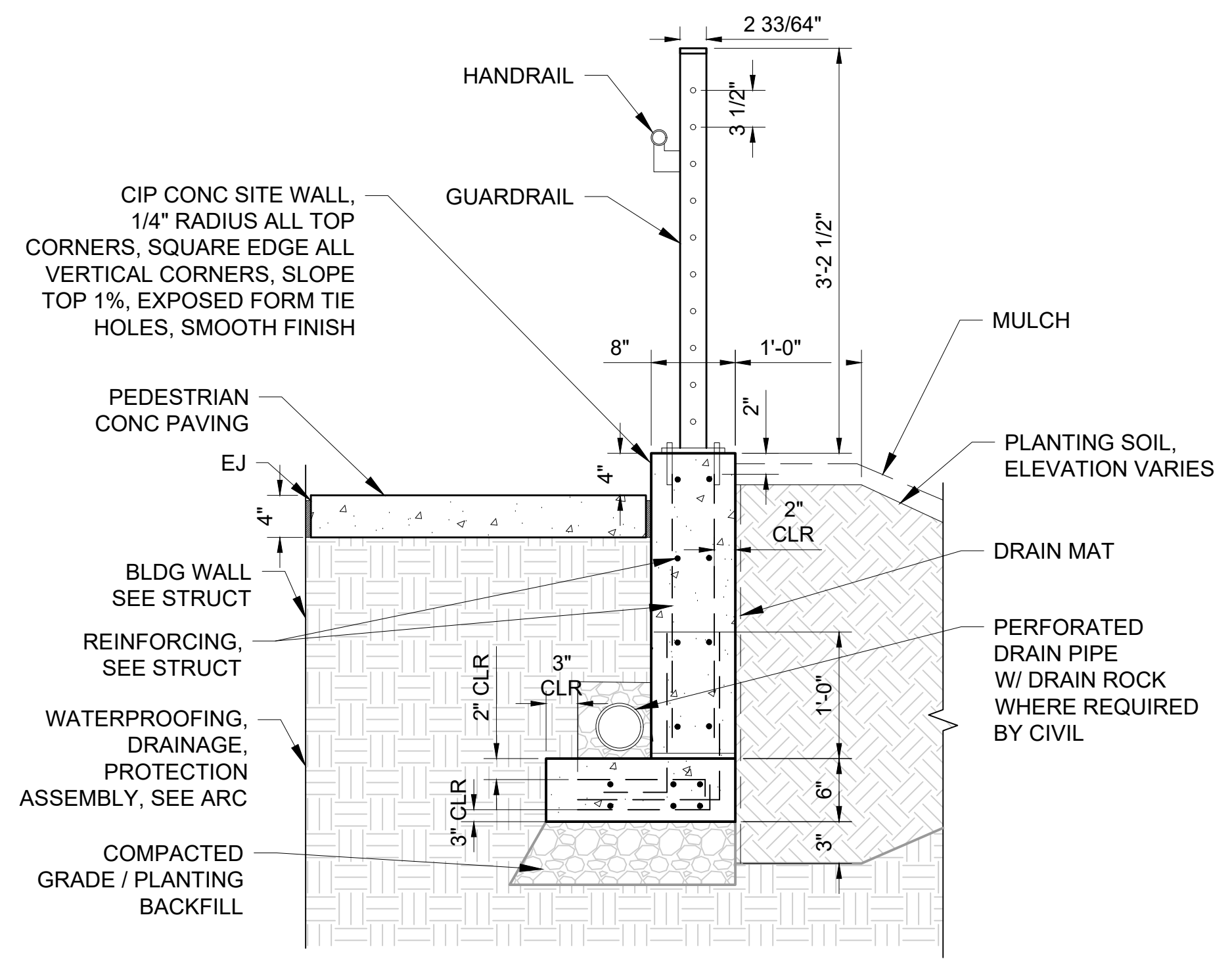
**03**



**CIP CONCRETE RETAINING WALL AT PLANTING**

SCALE: 1" = 1'-0"

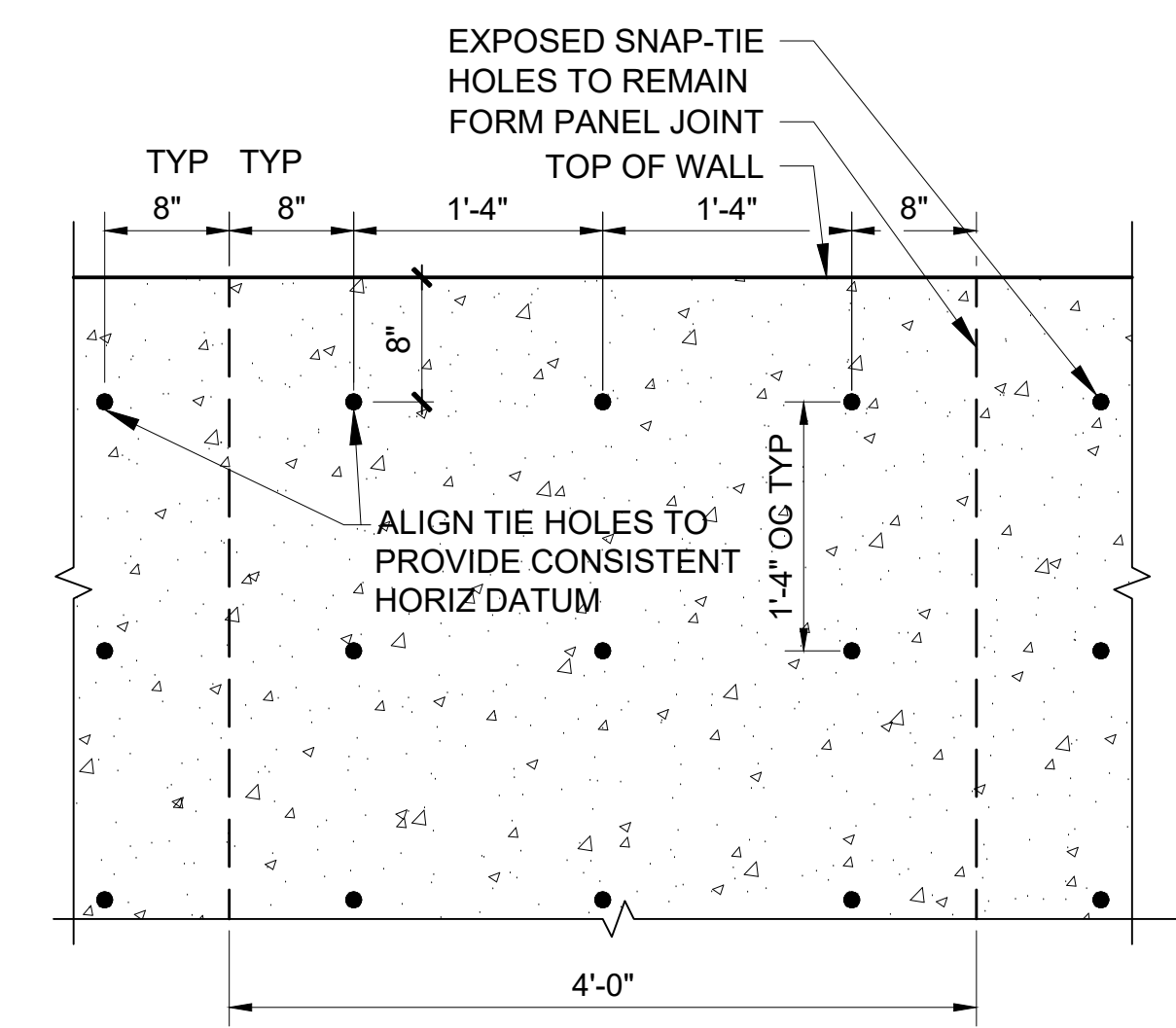
**04**



**CIP CONCRETE WALL WITH GUARDRAIL**

SCALE: 1" = 1'-0"

**05**



**CIP CONCRETE WALL FORMWORK LAYOUT**

SCALE: 1" = 1'-0"

**06**

01/30/25 | 3:44 PM | JUSLEAMAKER E:\00-PROJECTS\LR STA STANDARDS - 20230302-TAKS 05 STATION CONFIGURATIONS\05-CAD\06-ST UPLOAD FINAL\STD-LHD103.DWG

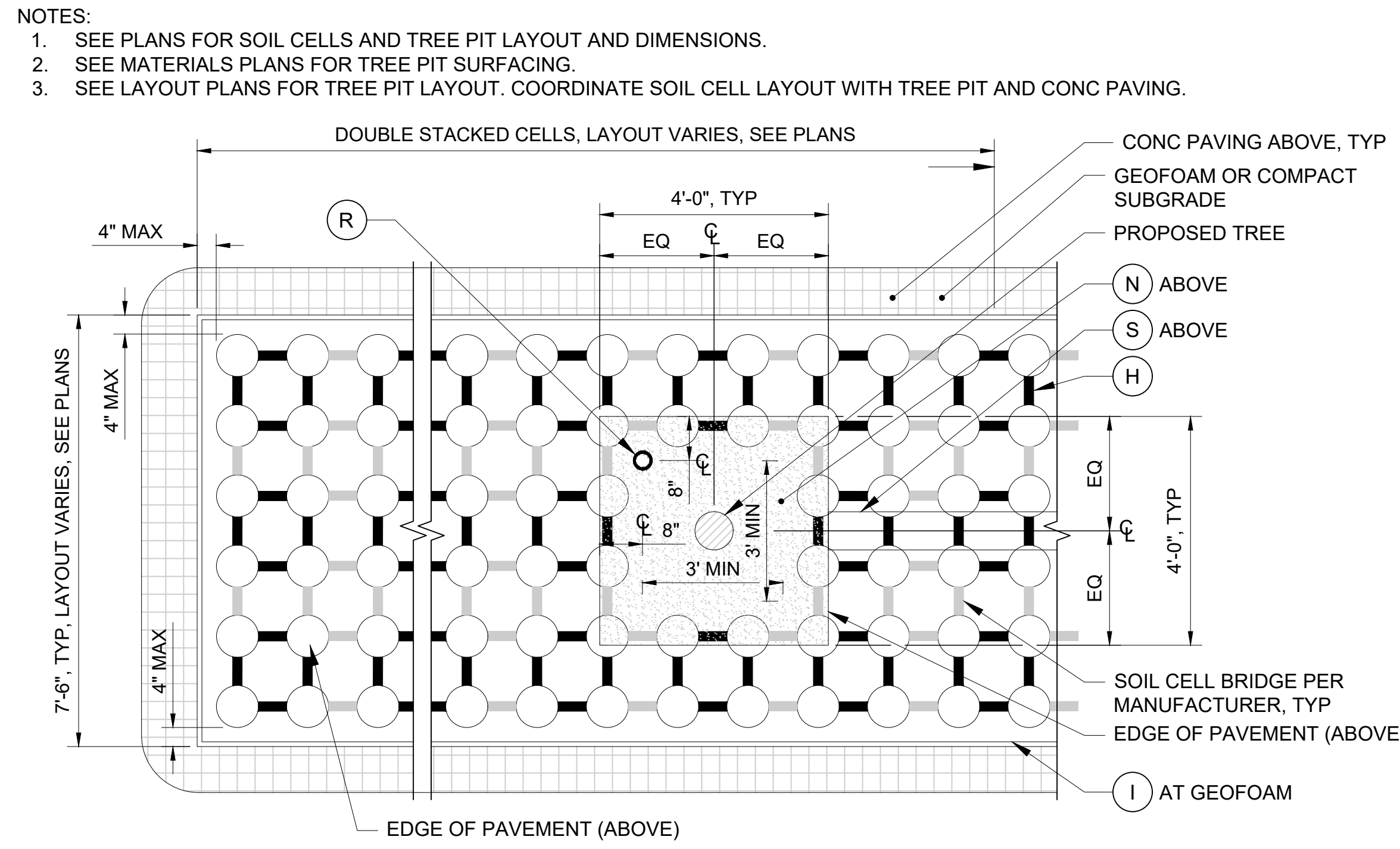
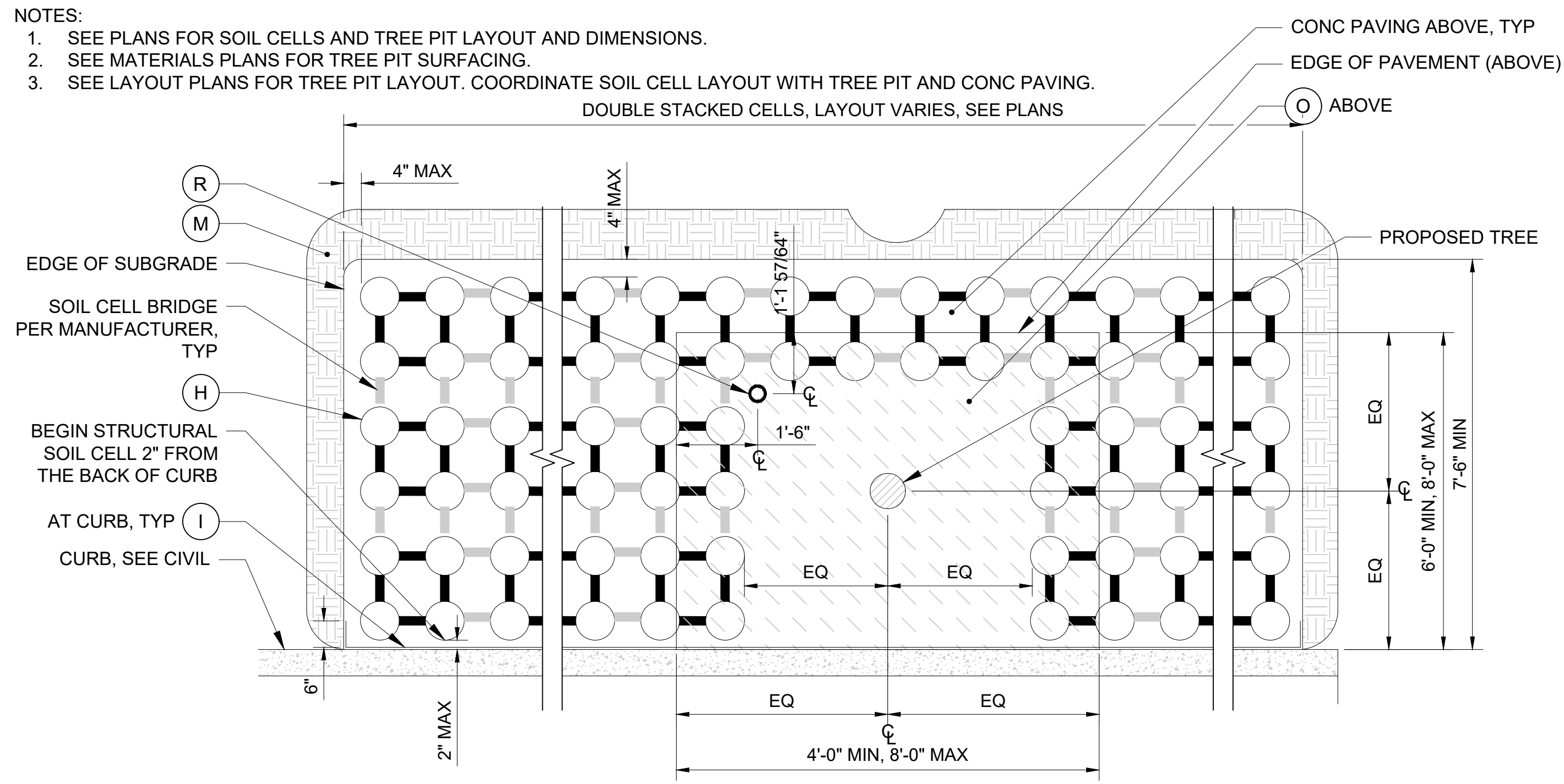
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| No.          | DATE    | DSN | CHK | APP | REVISION      |  |  |  |  |              |  |  |  |  |              |  |  |  |  |       |  |  |  |  |
| 0            | 12/2024 |     |     |     | NEW DRAWING   |  |  |  |  |              |  |  |  |  |              |  |  |  |  |       |  |  |  |  |

SCALE: AS NOTED  
 FILENAME: STD-LHD103.DWG  
 CONTRACT No.:

**SOUND TRANSIT  
 STANDARD DRAWINGS  
 LANDSCAPE**

DRAWING No.: **STD-LHD103**  
 FACILITY ID:  
 SHEET No.: REV: **0**

SITE SEAT AND PLANTER WALL DETAILS



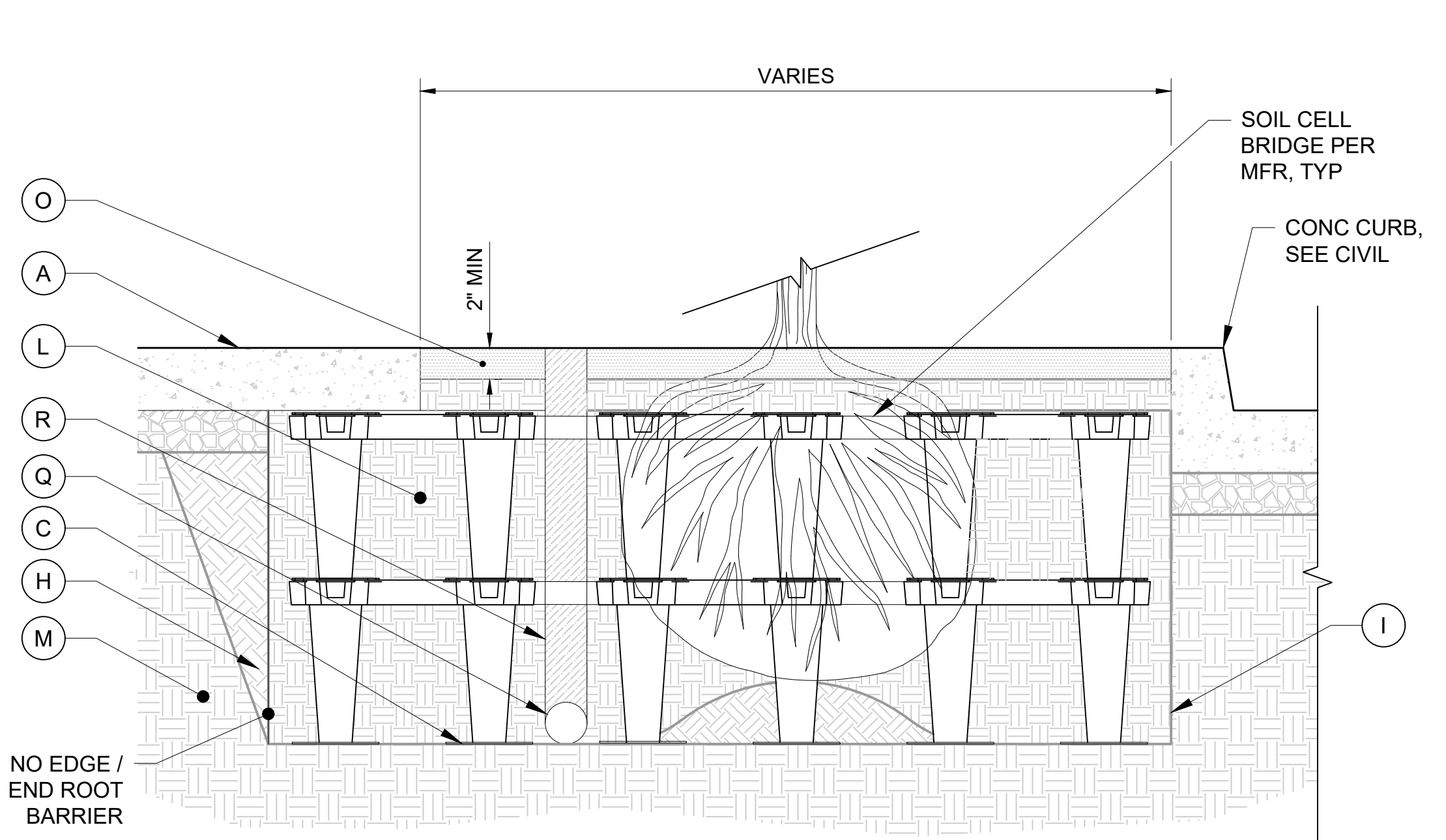
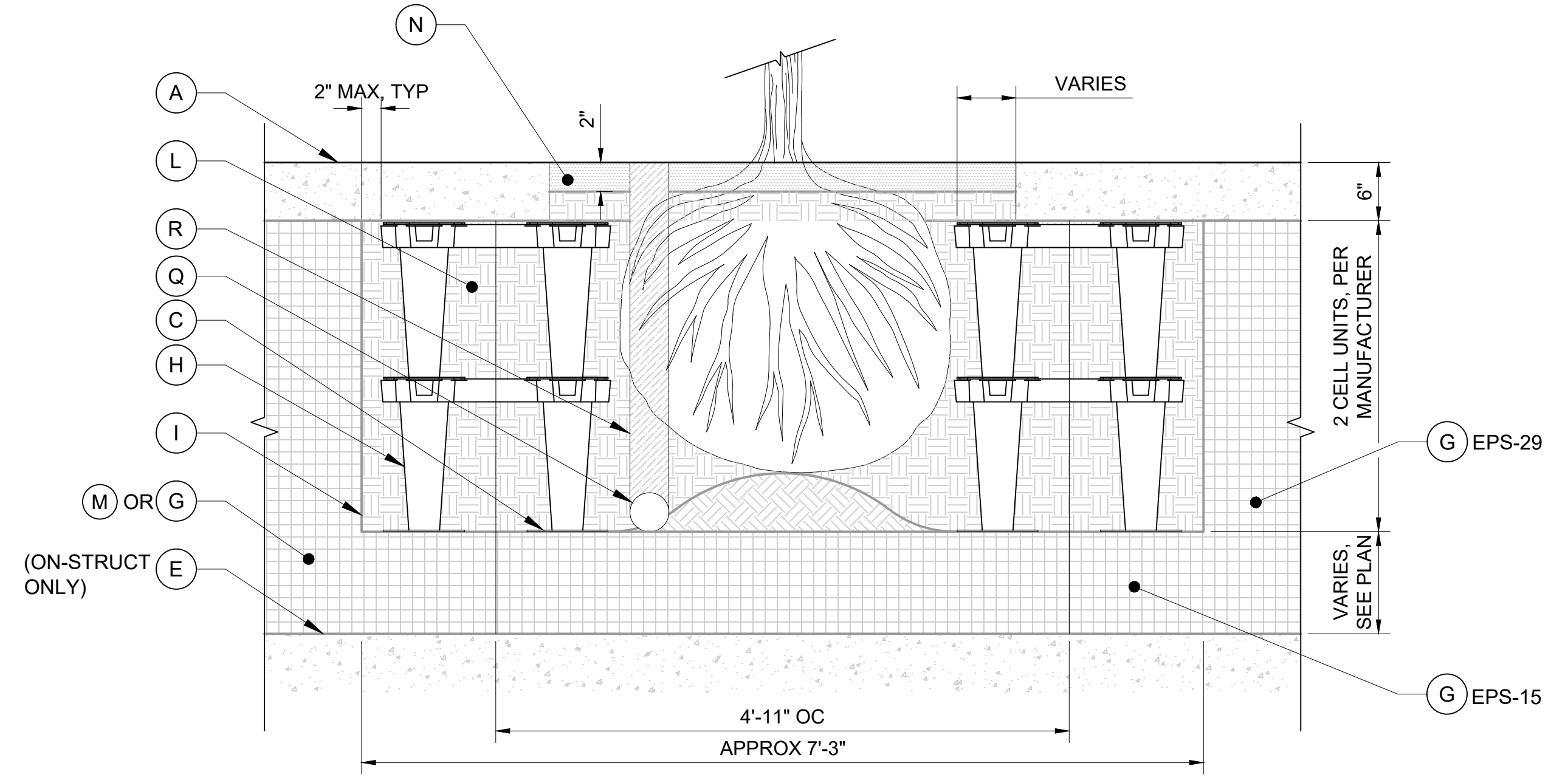
- SOIL CELLS - LEGEND:**
- (A) CONCRETE PAVEMENT
  - (B) CRUSHED AGGREGATE BASE
  - (C) SOIL CELL FOOT PLATE
  - (D) CIP CONCRETE FOOTING
  - (E) CONCRETE ROOF SLAB, SEE STRUCT
  - (F) WATERPROOFING, DRAINAGE, PROTECTION ASSEMBLY, SEE ARCH
  - (G) GEOFOAM, SEE STRUCT
  - (H) SOIL CELLS
  - (I) GEOGRID AND ROOT BARRIER
  - (J) DRAIN MAT
  - (K) GEOTEXTILE
  - (L) PLANTING SOIL
  - (M) COMPACT SUBGRADE
  - (N) CRUSHED GRAVEL MULCH
  - (O) BONDED GRAVEL PERMEABLE PAVEMENT
  - (P) 1" DIA DRAIN ROCK
  - (Q) 4" DIA PERFORATED HORIZONTAL AERATION PIPE, SPACE EVENLY, CONT 5FT OC MAX SPACING
  - (R) 4" DIA PVC INSPECTION RISER W/ ST STL OR ALUM REMOVABLE GRILL CAP W/ TAPER-RESISTENT FASTNERS
  - (S) CAST ALUM OR CAST IRON TRENCH DRAIN GRATE W/ TAMPER-RESISTANT SS BOLT AND LOCKING BAR ATTACHMENT

**SOIL CELLS ON-GRADE TYP PLAN**  
SCALE: 1/2" = 1'-0"

01

**SOIL CELLS ON-STRUCTURE TYP PLAN**  
SCALE: 1/2" = 1'-0"

02



- SOIL CELLS NOTES:**
- SEE LAYOUT AND MATERIALS PLANS FOR TREE PIT DIMENSIONS AND LOCATION.
  - REMOVE EXCESS SOIL TO DEPTH OF ROOT FLARE AND SET TOP OF ROOT CROWN 2" ABOVE FINISH GRADE.
  - GEOGRID AND ROOT BARRIER SHALL BE USED WHERE REQUIRED TO STABILIZE SUBGRADE ADJACENT PAVEMENT AND CURBS. NO BARRIER OR GEOGRID ON PLANTING AREA SIDE OF SOIL CELL AREA.
  - MODIFY LAYOUT OF CELLS, OR OMIT BRIDGE COMPONENT AS REQUIRED TO INSTALL CELL LAYOUT AROUND LOCALIZED OBSTRUCTIONS SUCH AS EDGES OF LIGHT POLE BASES, UNDERGROUND UTILITIES, OR OTHER FIXED FOUNDATIONS. ENSURE ADJACENT CELLS ARE LEVEL, ALIGNED, AND RIGID.
  - INSTALL SOIL IN COMPACTED LIFTS PRIOR TO TOP LAYER OF CELLS TO ENSURE COMPACTION MEETS PLANTING REQUIREMENTS.
  - INSTALL CELLS AND TOPSOIL PRIOR TO ADJACENT PAVEMENT TO REDUCE REQUIREMENTS FOR GEOGRID SUPPORT AT EDGES OF ON-GRADE LOCATIONS.
  - INSTALL CONTINUOUS ROOT BARRIER UNDER ALL SOIL CELL AREAS OVER GEOFOAM.

**SOIL CELLS ON-STRUCTURE TYP SECTION**  
SCALE: 1/2" = 1'-0"

03

**SOIL CELLS ON-GRADE AND ROW TYP SECTION**  
SCALE: 1/2" = 1'-0"

04


01/30/25 | 3:44 PM | JSLEAMAKER E:\00-PROJECTS\IST LR STA STANDARDS - 202303\02-TAKS 05 STATION CONFIGURATIONS\05-CAD\06-ST UPLOAD FINAL\STD-LHD104.DWG

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|--------------|---------|-----|-----|-----|-------------|
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| CHECKED BY:  |         |     |     |     |             |
| APPROVED BY: |         |     |     |     |             |
| 0            | 12/2024 |     |     |     | NEW DRAWING |
| No.          | DATE    | DSN | CHK | APP | REVISION    |

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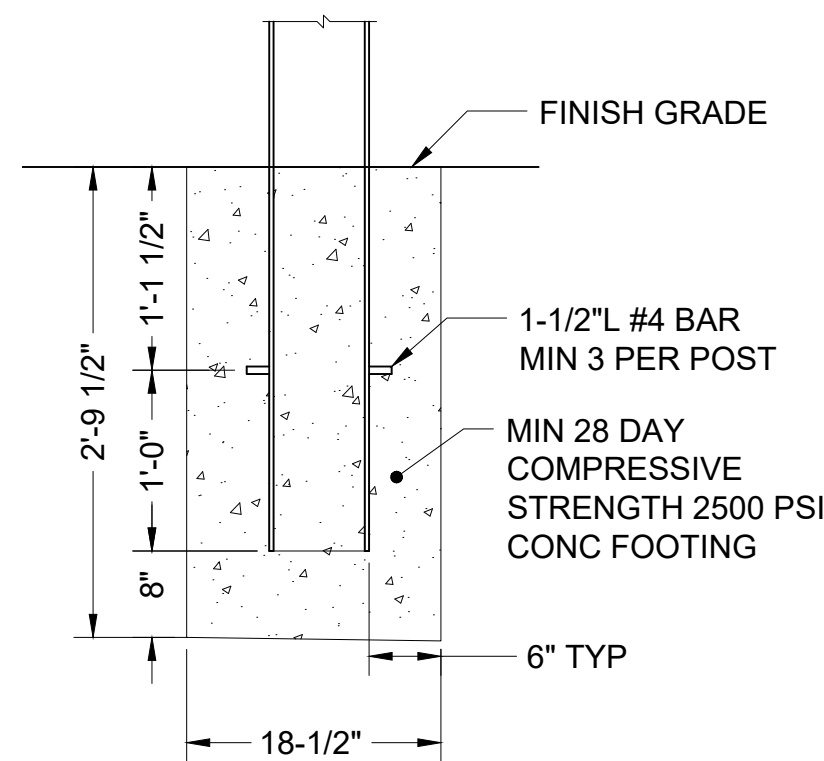
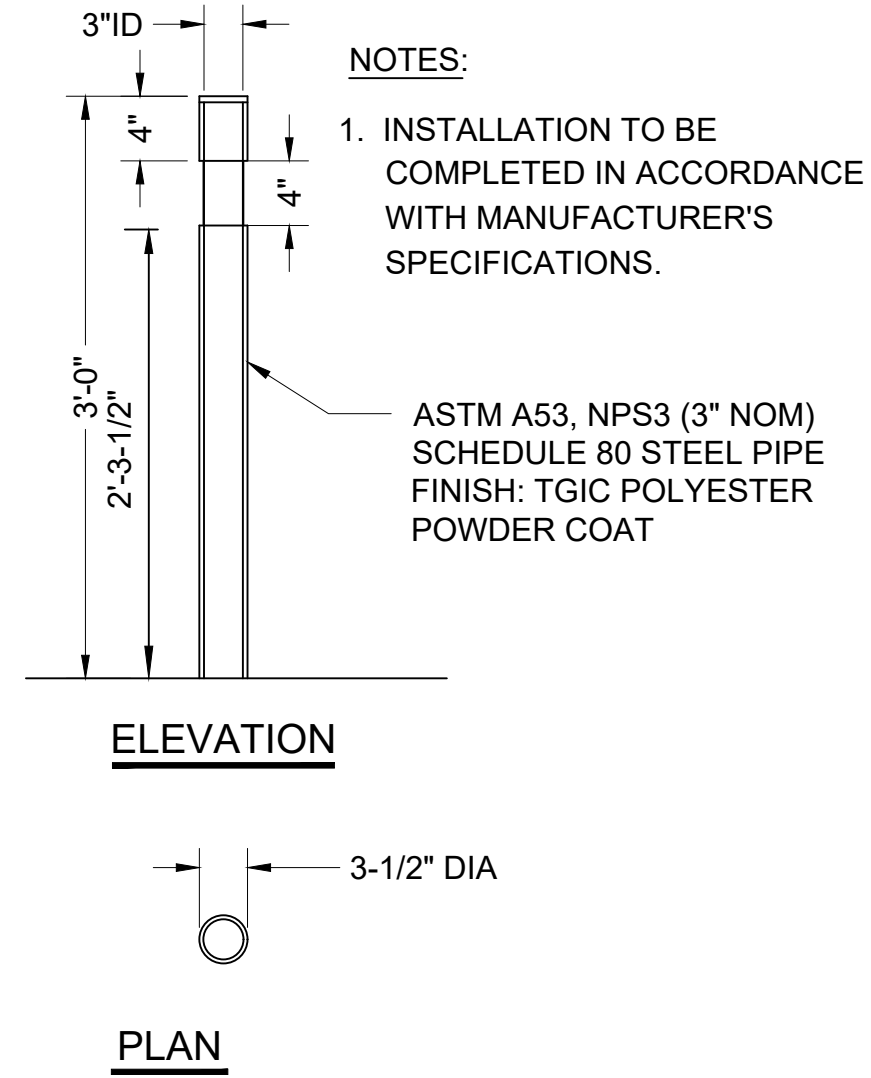
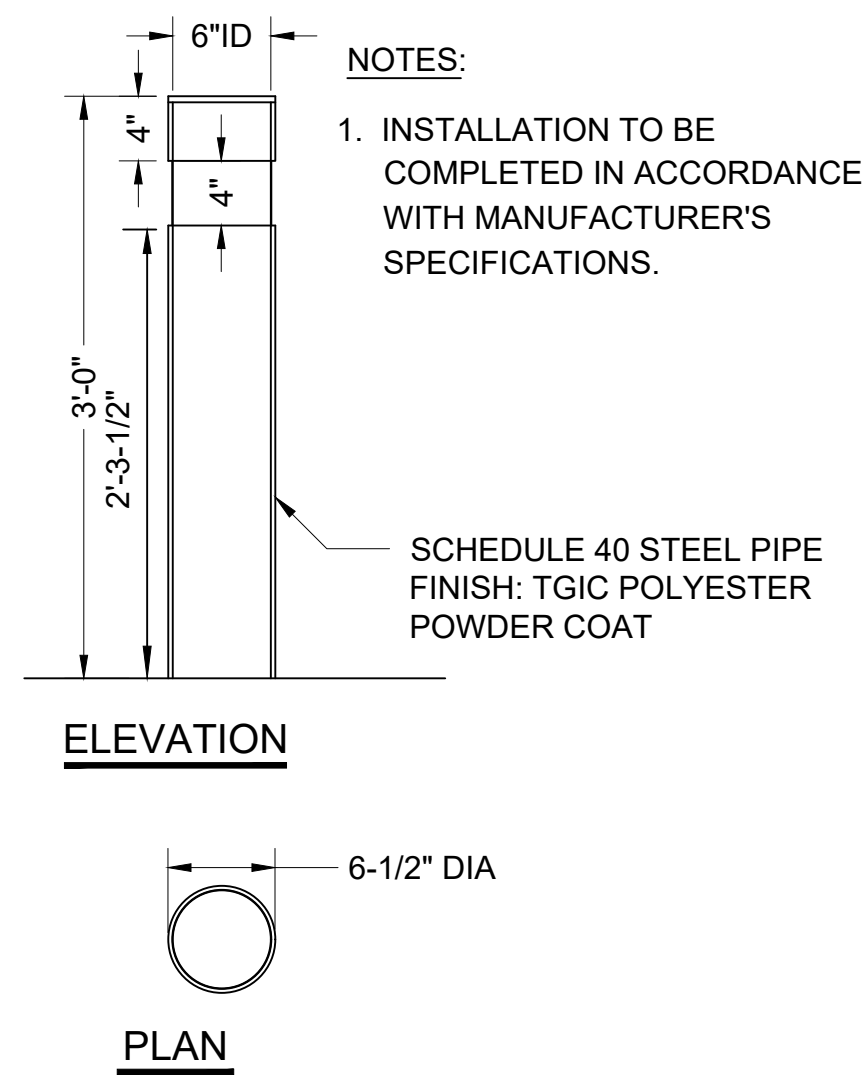
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| SCALE:        | AS NOTED       |
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| CONTRACT No.: |                |

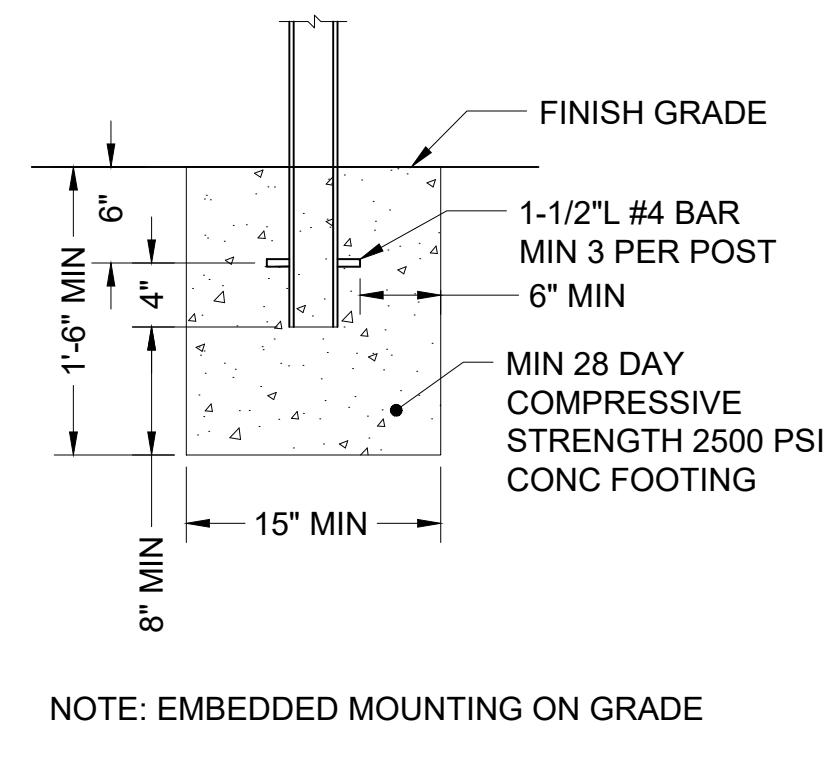
  
**SOUNDTRANSIT**

**SOUND TRANSIT**  
**STANDARD DRAWINGS**  
 LANDSCAPE  
 SOIL CELLS - TREE PIT DETAILS

|              |                   |
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| DRAWING No.: | <b>STD-LHD104</b> |
| FACILITY ID: |                   |
| SHEET No.:   | REV:              |
|              | 0                 |



NOTE: EMBEDDED MOUNTING ON GRADE  
**STANDARD FIXED SITE BOLLARD**

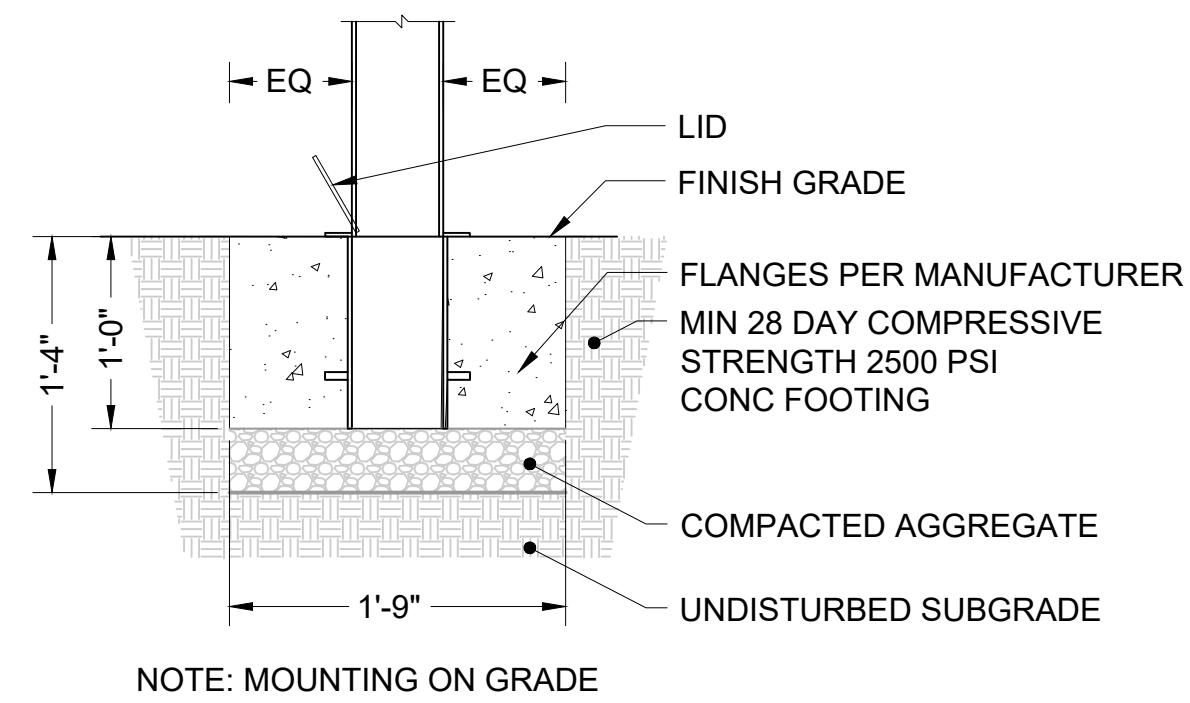


NOTE: EMBEDDED MOUNTING ON GRADE  
**NARROW FIXED SITE BOLLARD (WSDOT TYPE 2)**

**SITE BOLLARD DETAILS**

SCALE: 1" = 1'-0"

01

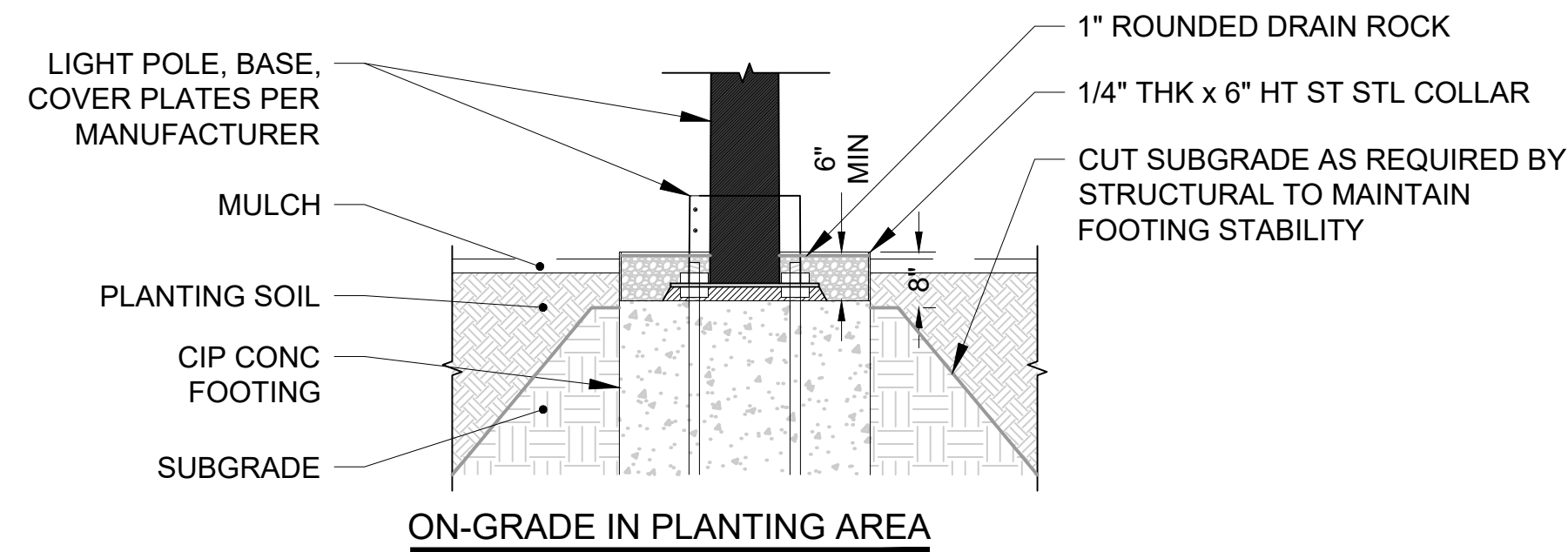
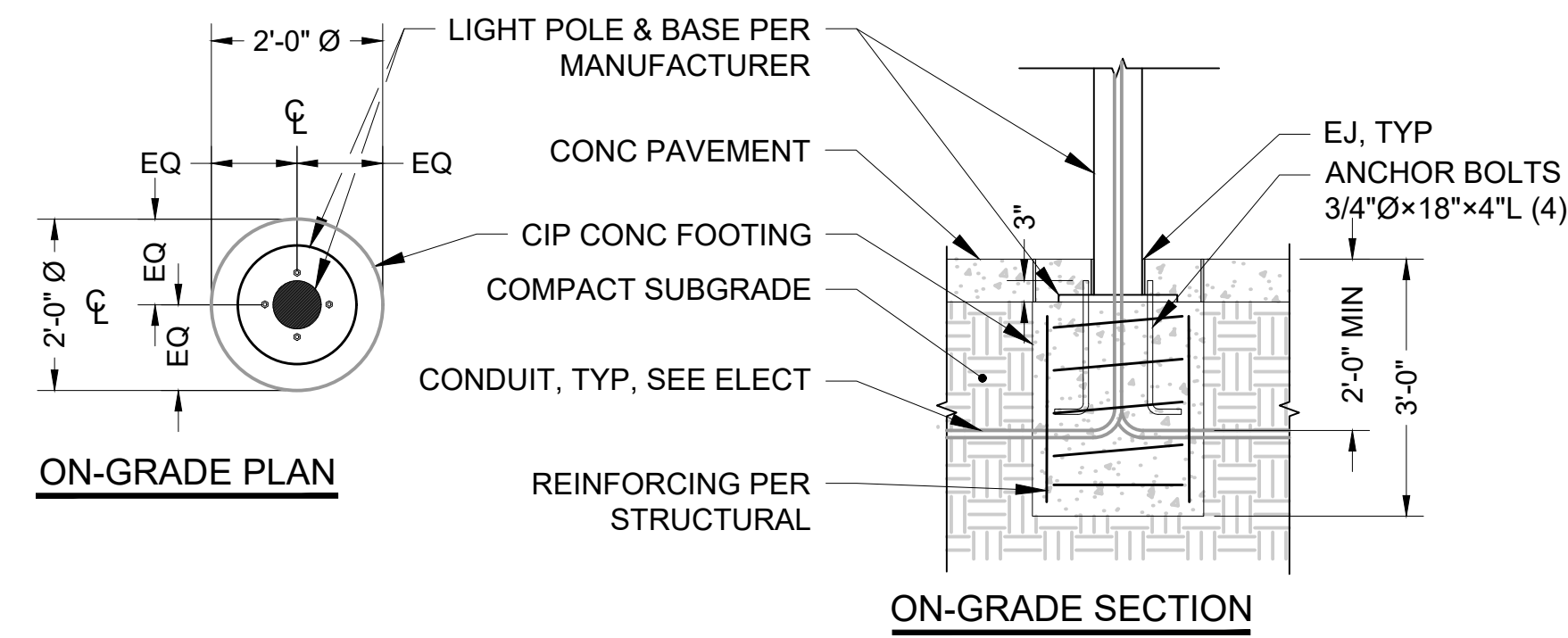
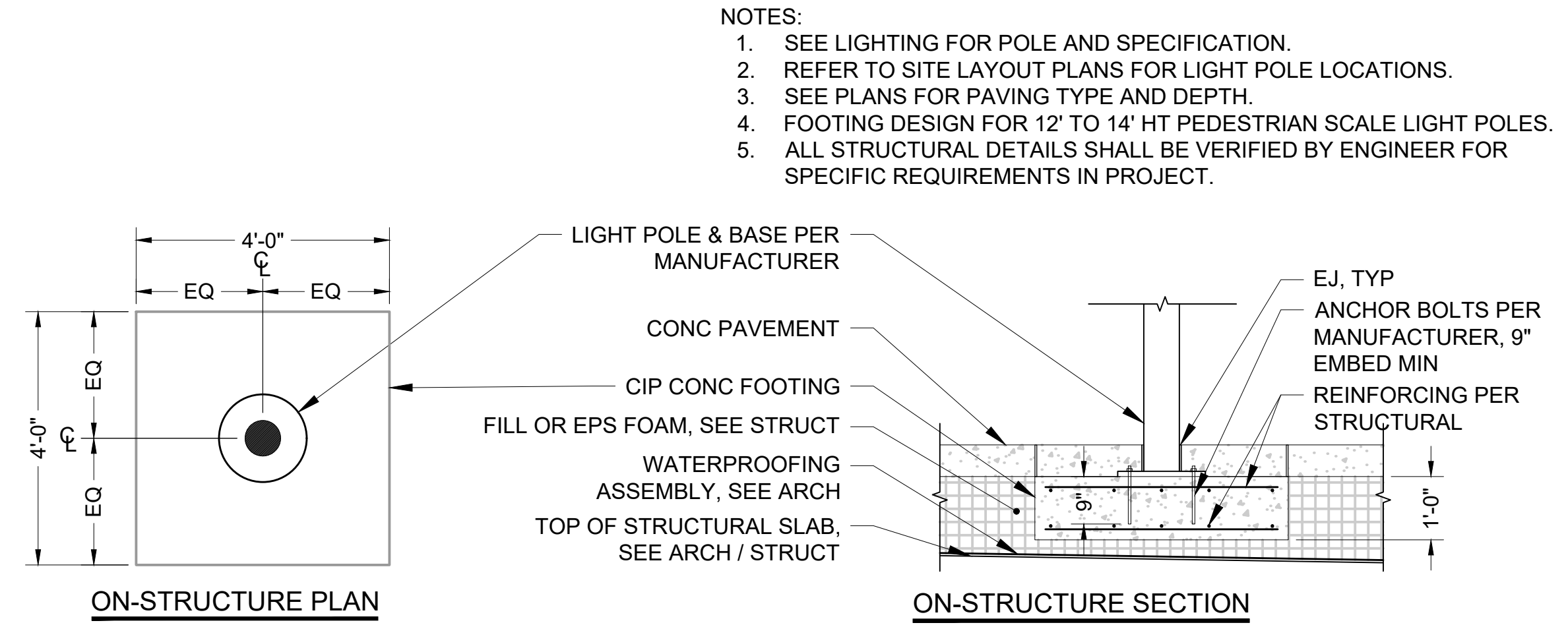


NOTE: MOUNTING ON GRADE

**SITE BOLLARD - REMOVABLE DETAILS**

SCALE: 1" = 1'-0"

02



**SITE LIGHT POLE FOOTING DETAILS**

SCALE: 1" = 1'-0"

03

01/30/25 | 3:44 PM | JSLEAMAKER  
E:\00-PROJECTS\LR STA STANDARDS - 20230302-TAKS 05 STATION CONFIGURATIONS\05-CAD\06-ST UPLOAD FINAL\STD-LHD105.DWG

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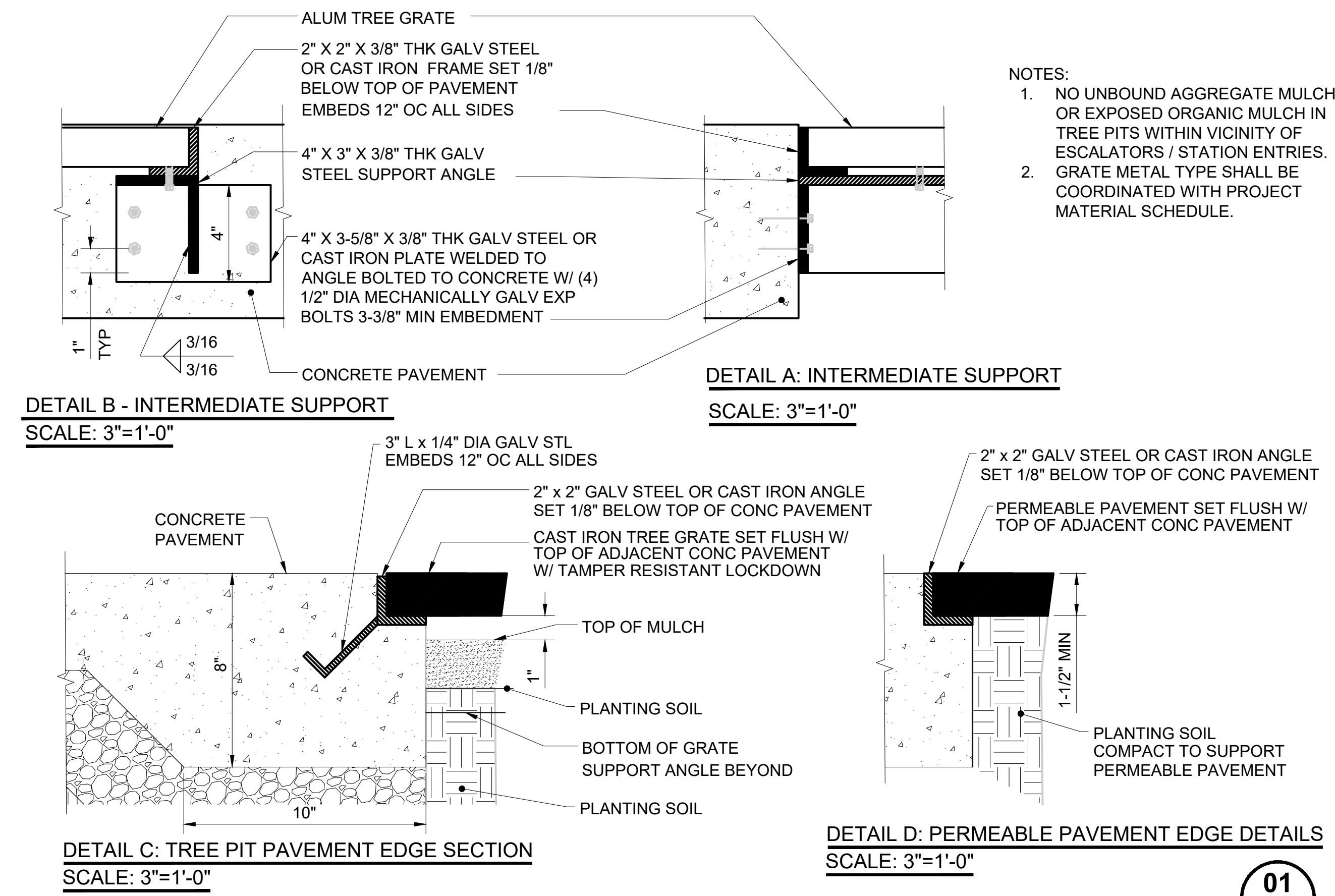
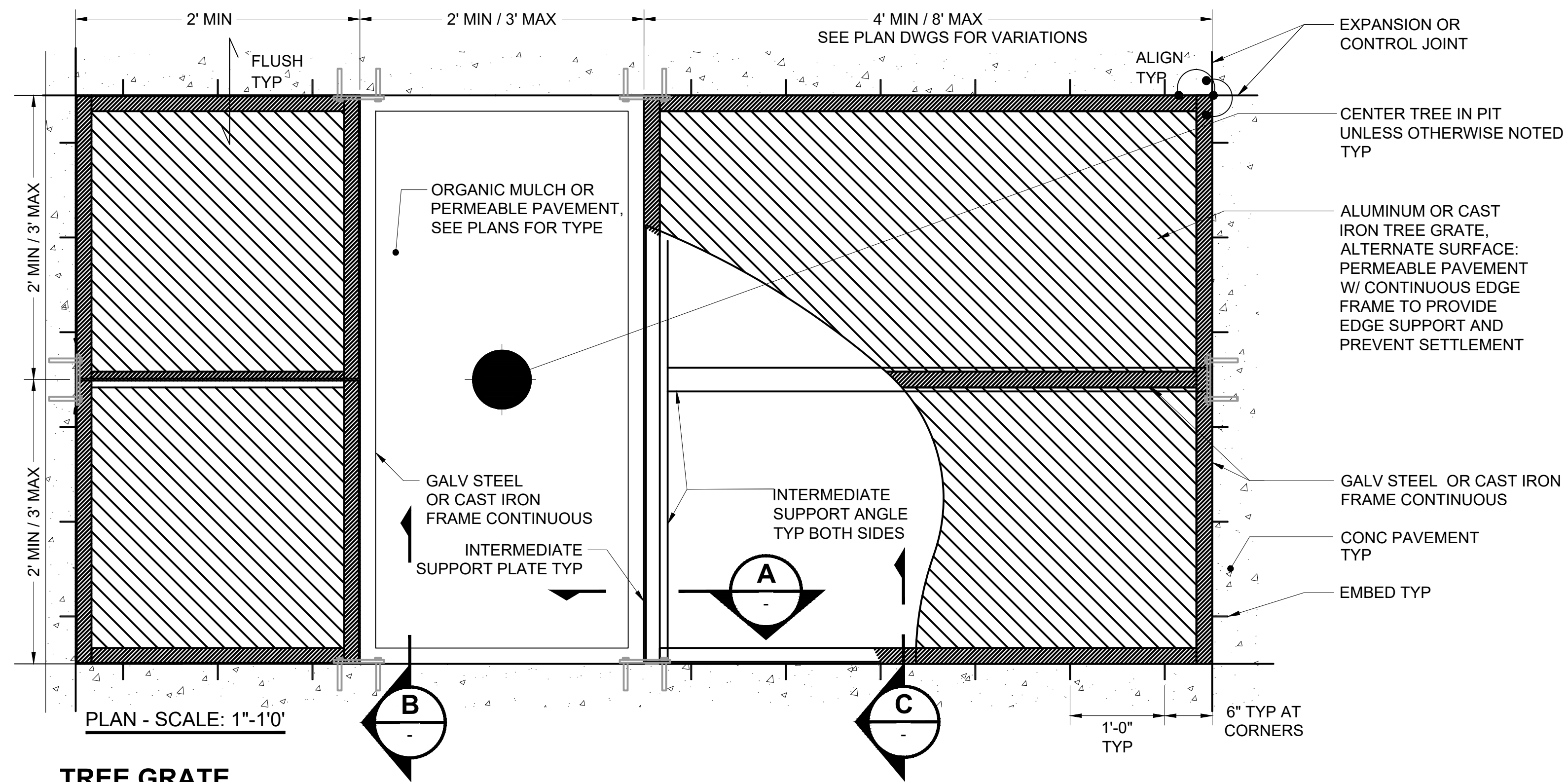
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| CONTRACT No.: |                |

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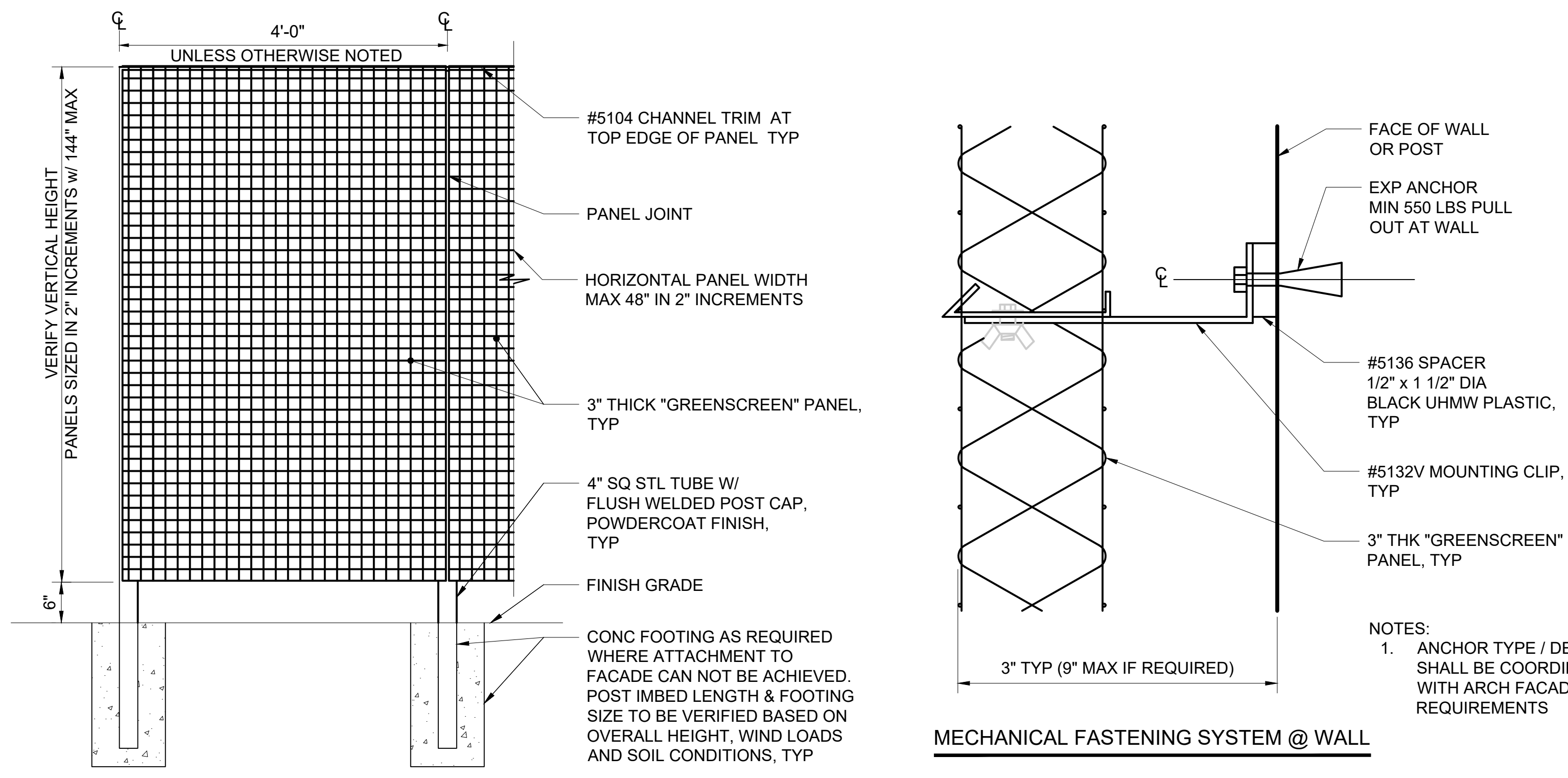
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| <b>SOUND TRANSIT<br/>STANDARD DRAWINGS<br/>LANDSCAPE</b> |  |
| SITE BOLLARD AND SITE LIGHT POLE DETAILS                 |  |

|              |            |
|--------------|------------|
| DRAWING No.: | STD-LHD105 |
| FACILITY ID: |            |
| SHEET No.:   | REV: 0     |



- NOTES:
- NO UNBOUND AGGREGATE MULCH OR EXPOSED ORGANIC MULCH IN TREE PITS WITHIN VICINITY OF ESCALATORS / STATION ENTRIES. GRATE METAL TYPE SHALL BE COORDINATED WITH PROJECT MATERIAL SCHEDULE.

01



**VINE TRELLIS**  
SCALE: 1" = 1'-0"

02

01/30/25 | 3:44 PM | JSLEAMAKER E:\00-PROJECTS\LR STA STANDARDS - 20230302-TAKS 05 STATION CONFIGURATIONS\05-CAD\06-ST UPLOAD FINAL\STD-LHD106.DWG

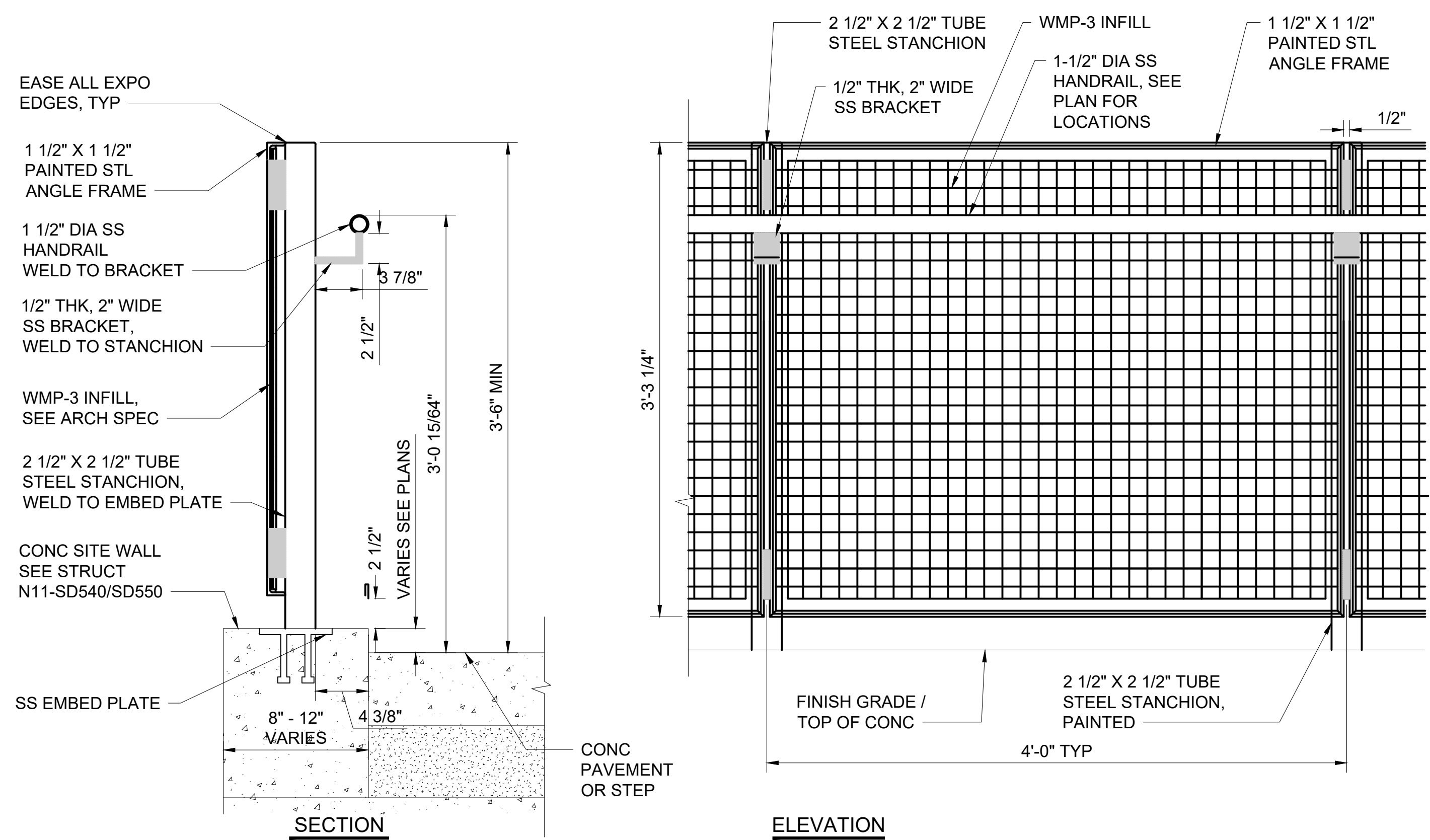
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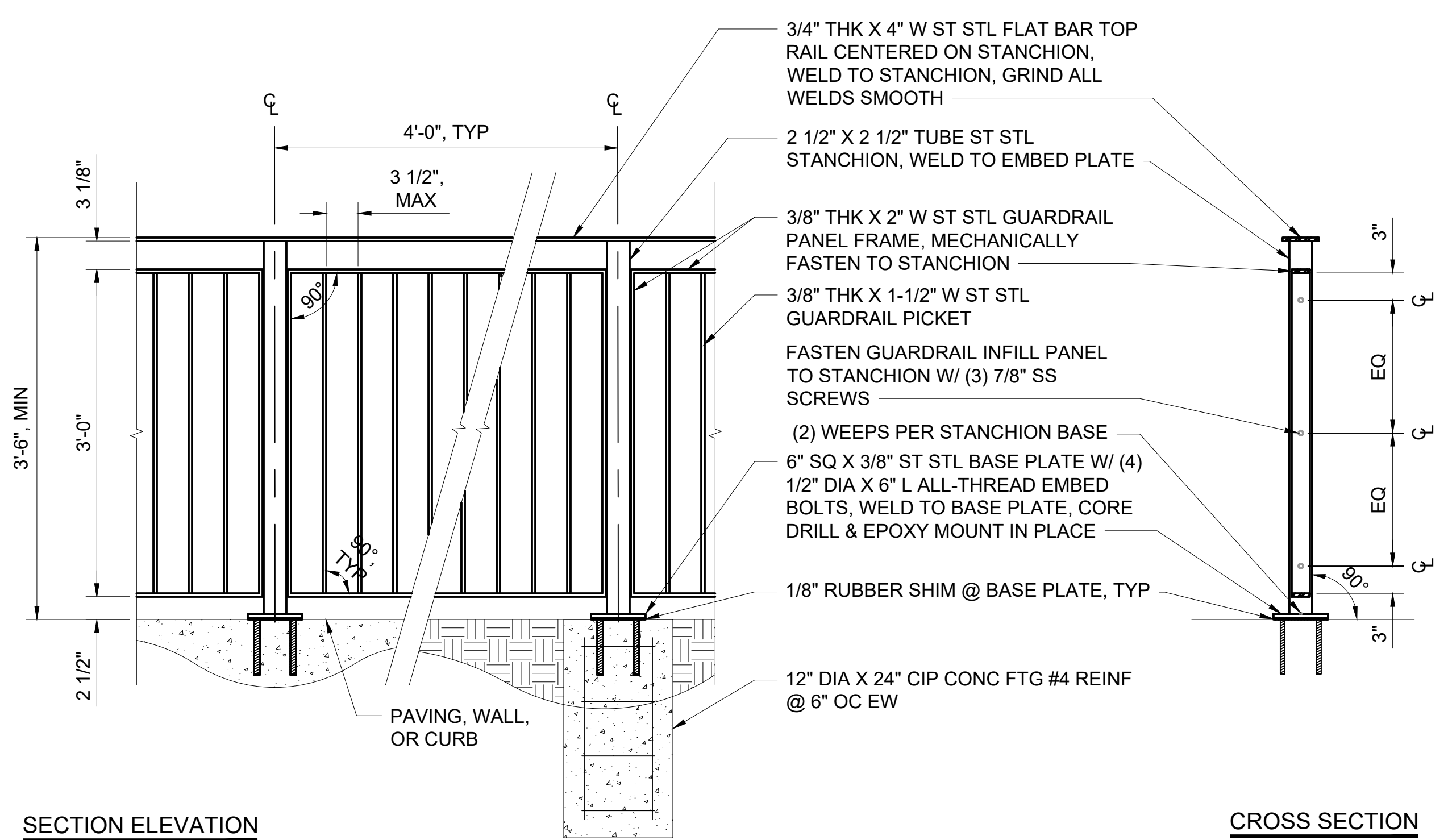
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| <b>SOUND TRANSIT<br/>STANDARD DRAWINGS<br/>LANDSCAPE</b> |  |
| TREE GRATE - VINE TRELLIS DETAILS                        |  |

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| DRAWING No.: | <b>STD-LHD106</b> |
| FACILITY ID: |                   |
| SHEET No.:   | REV: 0            |



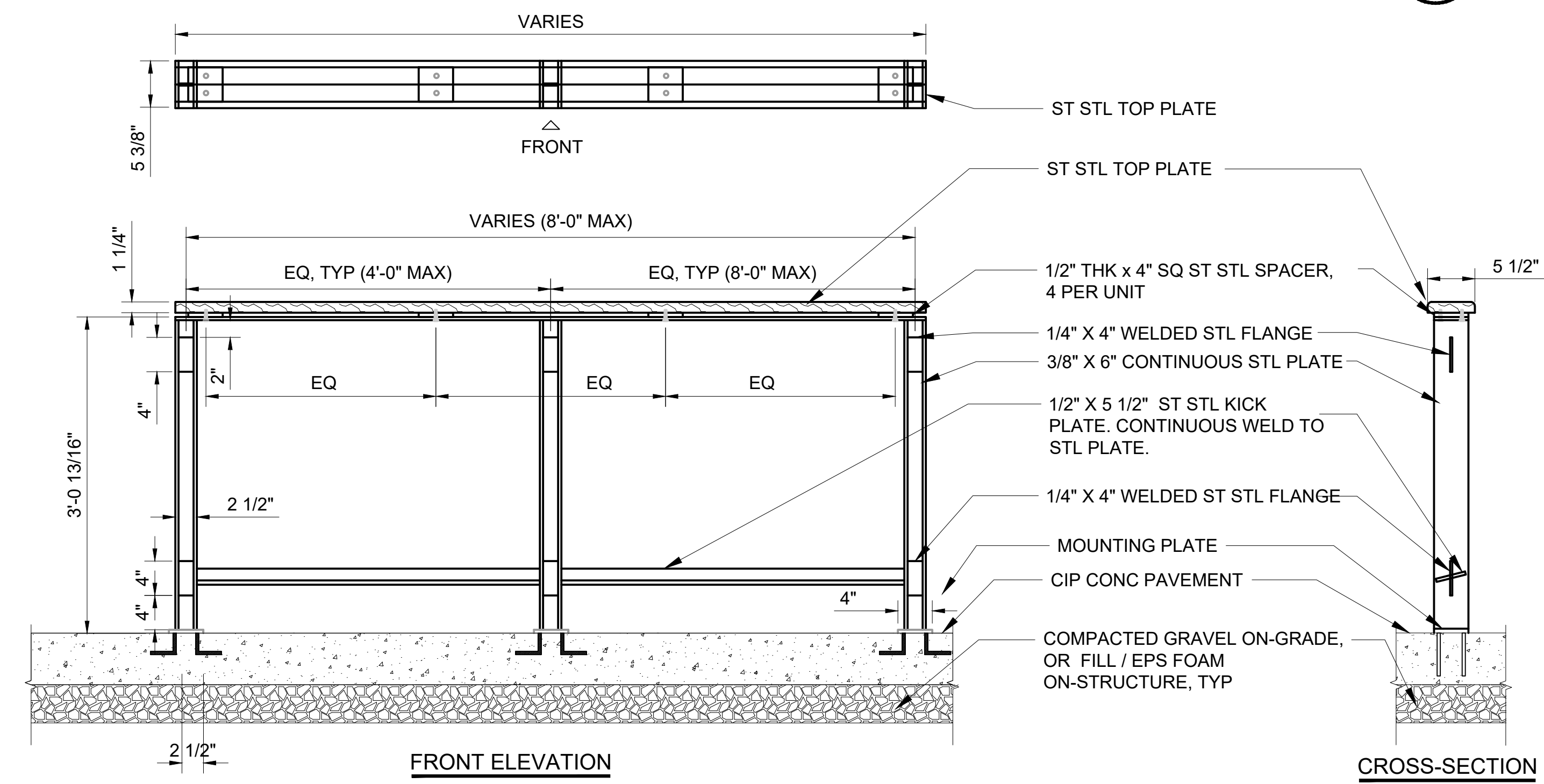
**SITE GUARDRAIL - MESH INFILL PANEL**  
SCALE: 1" = 1'-0"

01



**SITE GUARDRAIL - VERTICAL PICKET PANEL**  
SCALE: 1" = 1'-0"

02



**SITE LEAN RAIL**  
SCALE: 1" = 1'-0"

03

01/30/25 | 3:44 PM | JSLEAMAKER  
E:\00-PROJECTS\LR STA STANDARDS - 20250302-TAKS 05 STATION CONFIGURATIONS\05-CAD\06-ST UPLOAD FINAL\STD-LHD107.DWG

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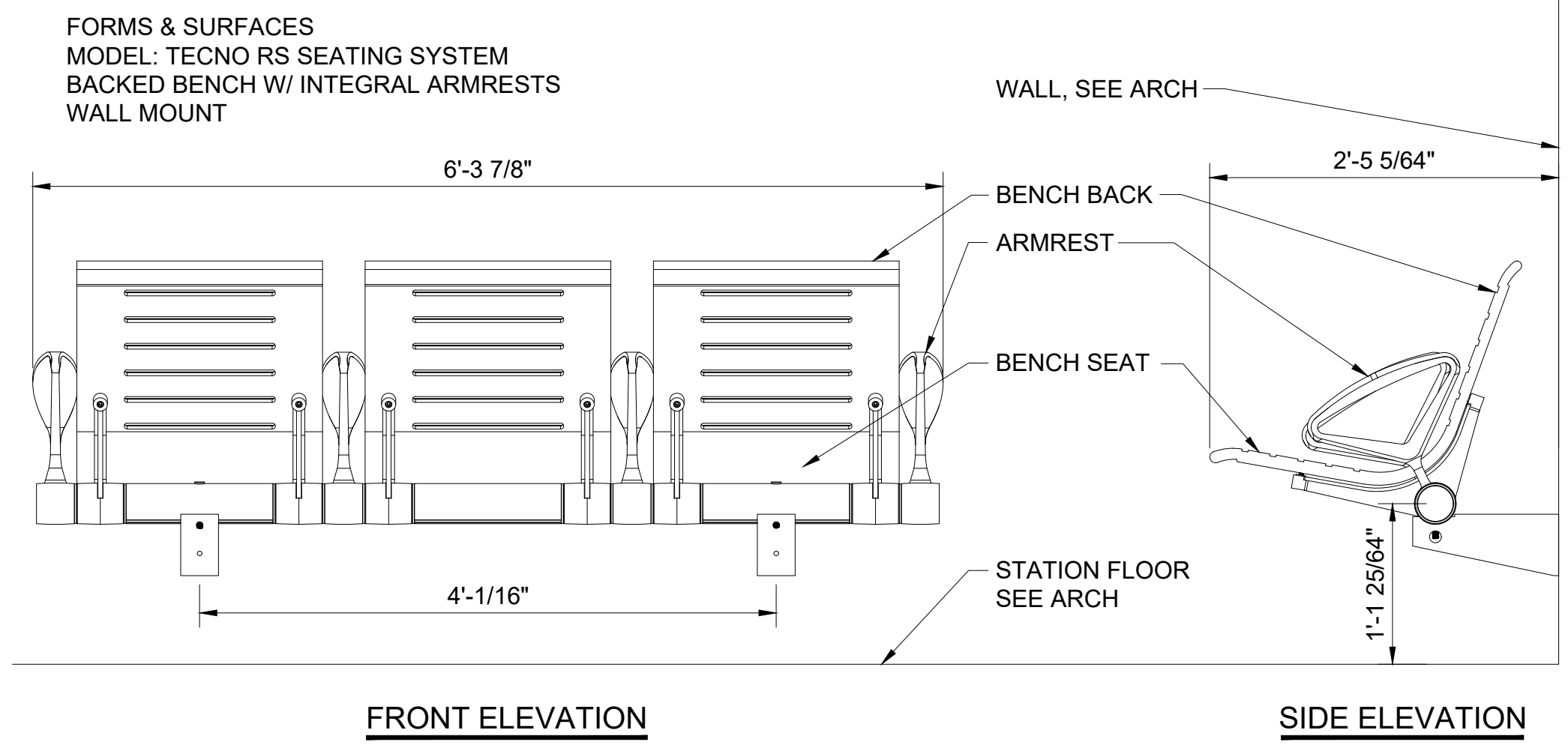
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| SCALE:        | AS NOTED       |
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| CONTRACT No.: |                |
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| SITE GUARDRAIL AND LEAN RAIL DETAILS                     |  |

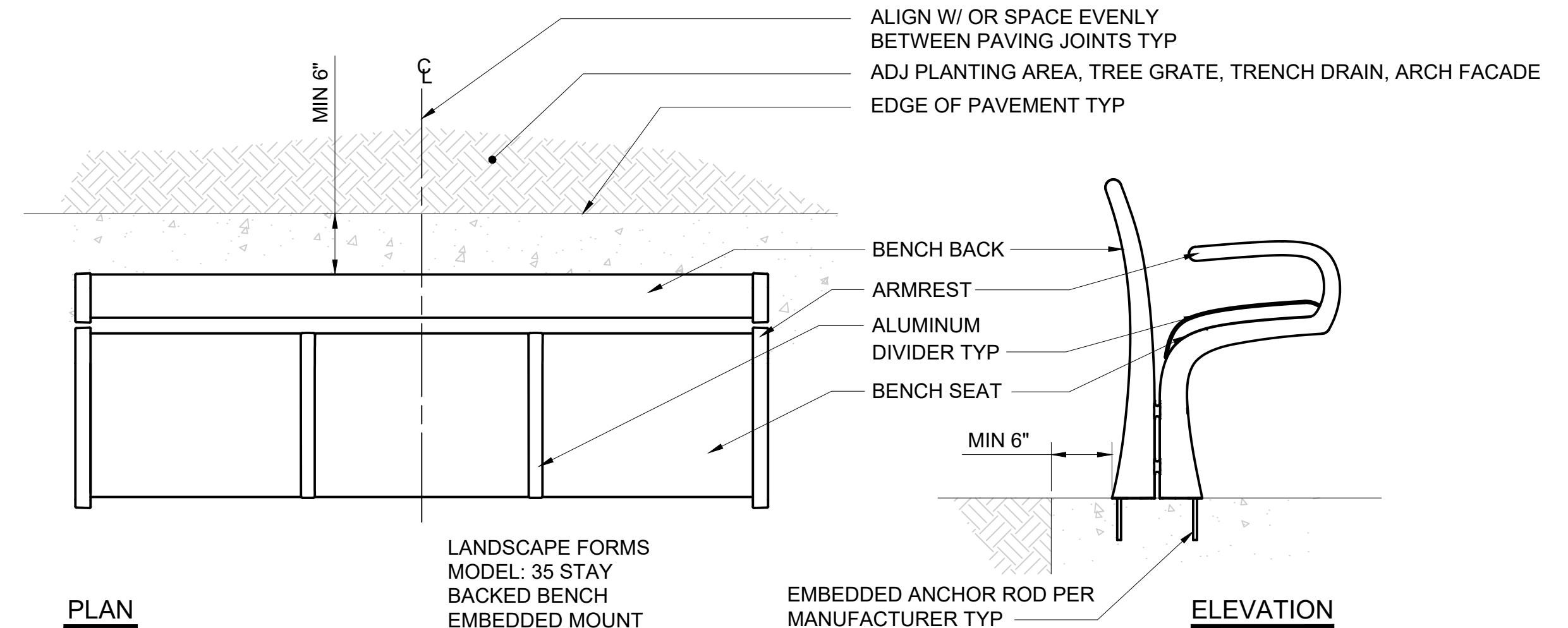
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| SHEET No.:   | REV:              |
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**BENCH: TYPE 1 (INSIDE STATION BUILDING)**

SCALE: 1" = 1'-0"

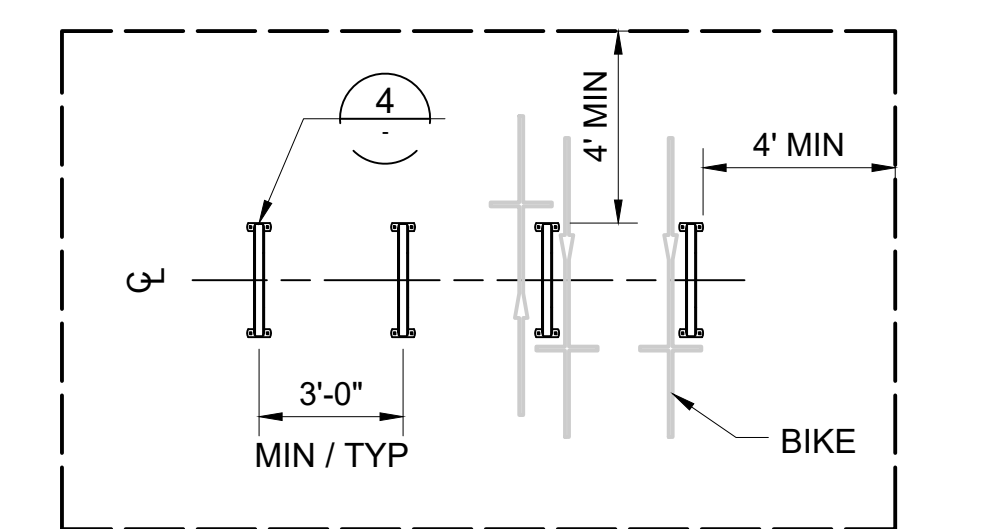
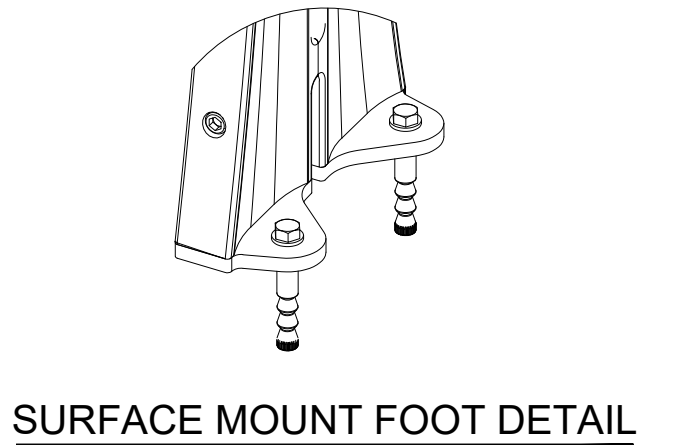
01



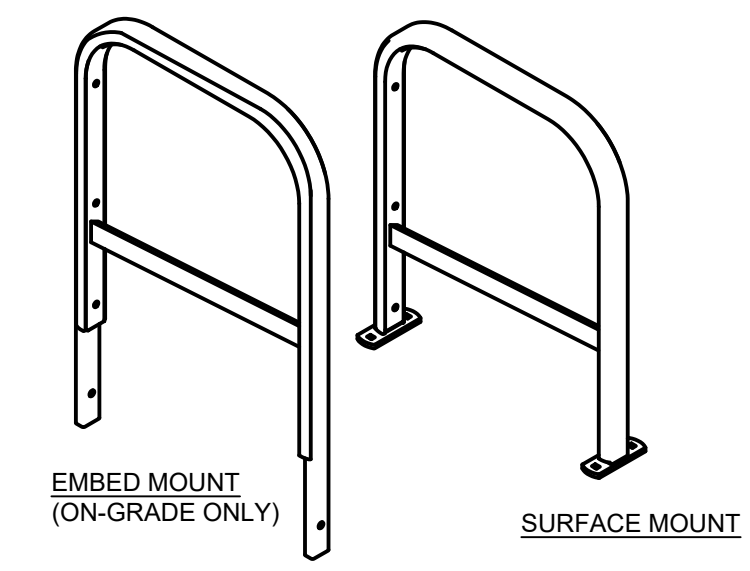
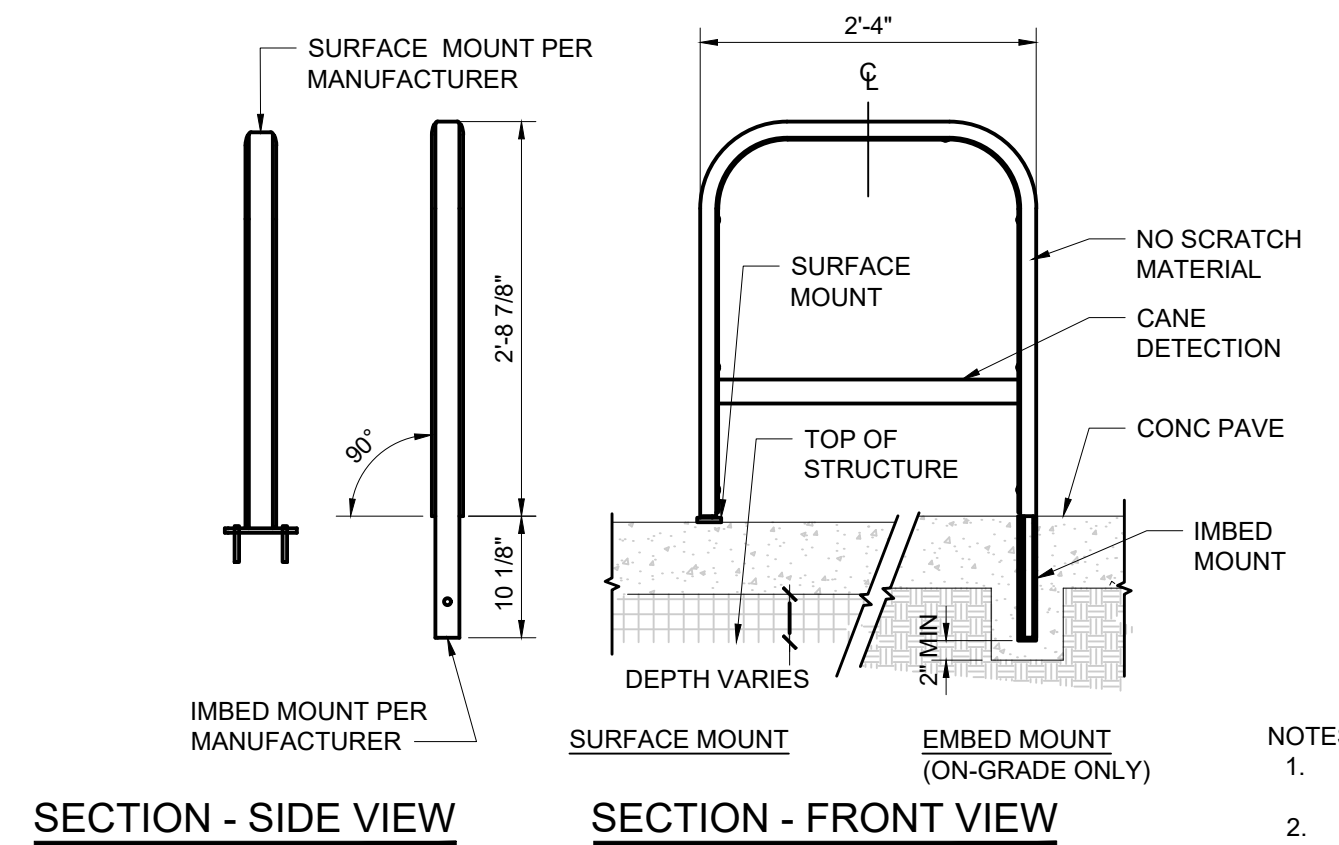
**BENCH: TYPE 2 (OUTSIDE STATION BUILDING)**

SCALE: 1" = 1'-0"

02



NOTE: LINEAR ARRANGEMENT FOR BIKE RACKS ALIGNED WITH WALLS OR EDGES OF PLANTING SHALL VARY TO ACCOMMODATE MAINTENANCE ACCESS BETWEEN RACKS.  
 DASHED LINE INDICATES MIN OFFSET FROM WALLS, OBJECTS, OR CLEAR ZONES



NOTES:  
 1. PROVIDE SURFACE MOUNT AT BIKE RACKS WITHIN ROW AND AT ALL ON-STRUCTURE LOCATIONS.  
 2. EMBED MOUNT INSTALL ON-GRADE ONLY.  
 3. PROVIDE CANE DETECTION MODEL IN ALL LOCATIONS.

**BIKE RACK: PLAN AND ELEVATION**

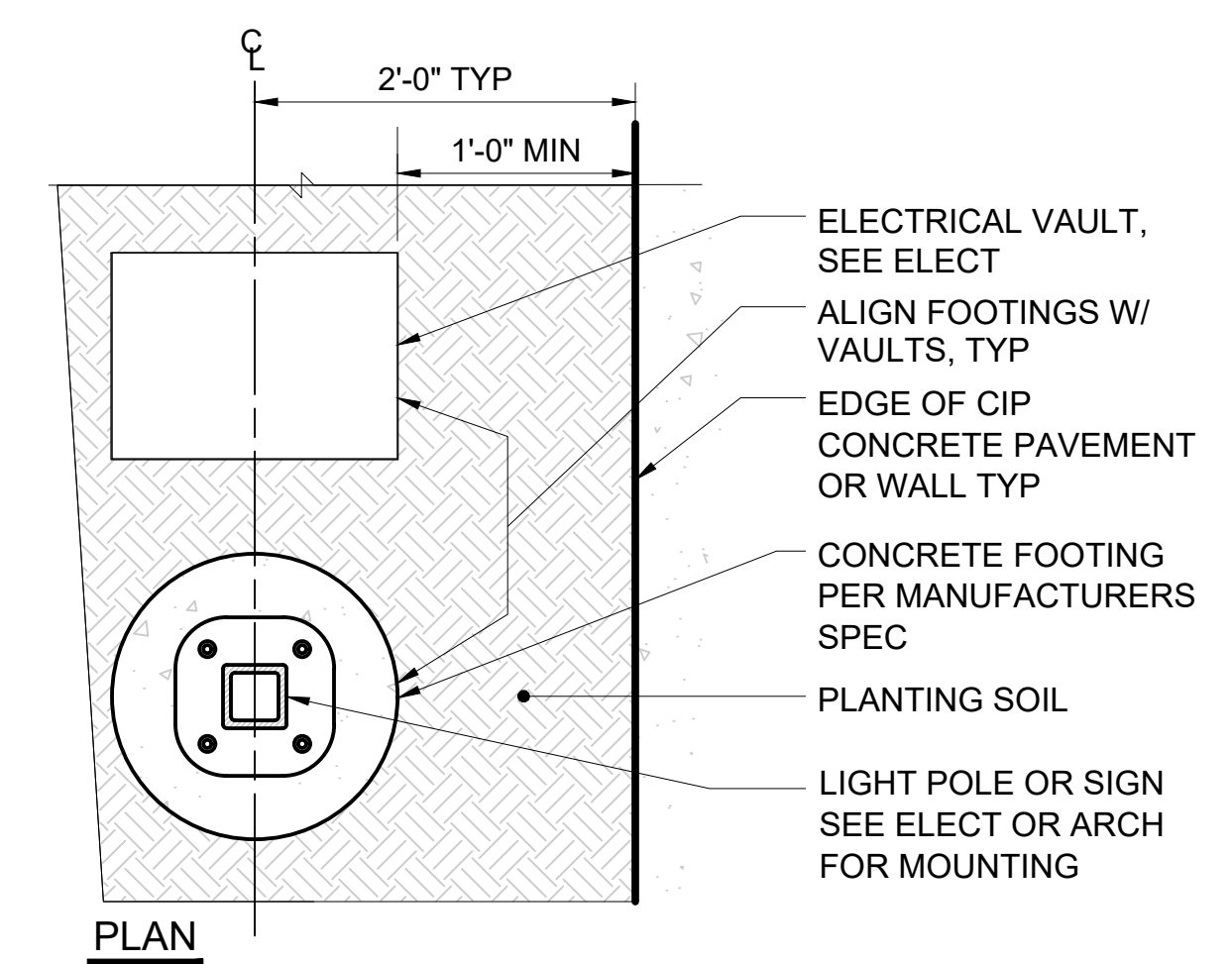
SCALE: 3/4" = 1'-0"

04

**BIKE RACK: TYPICAL PLAN LAYOUT**

NTS

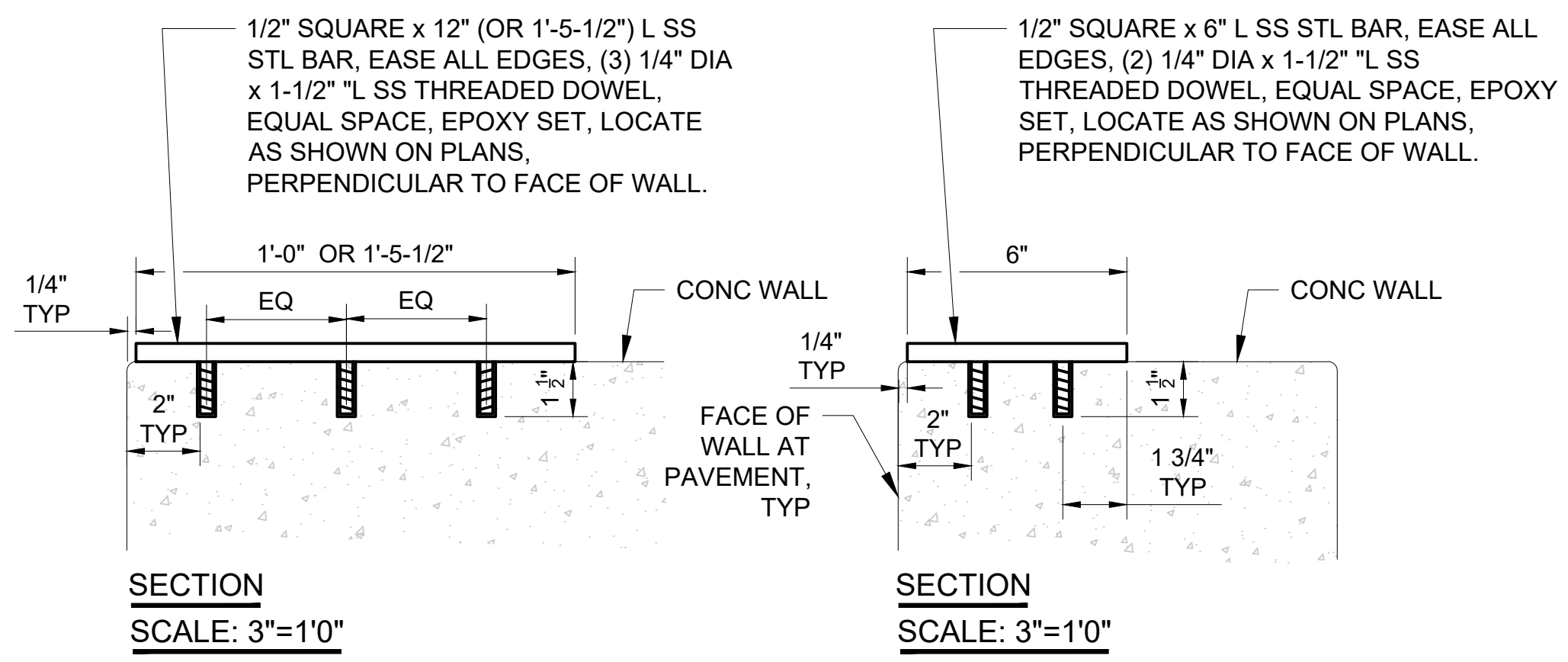
03



**CONC FOOTING LIGHT POLE LAYOUT PLAN**

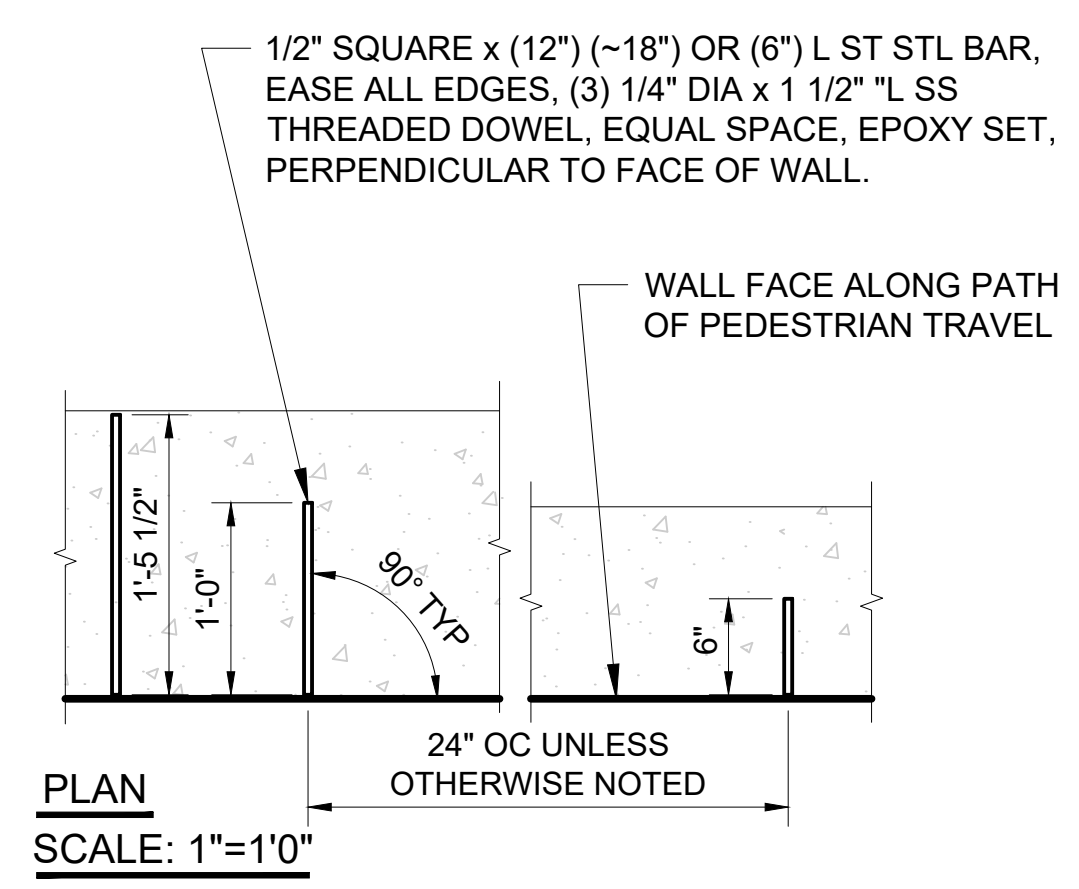
NTS

05



**SKATE DETERRENTS**

SCALE: AS NOTED



**WASTE RECEPTACLE LAYOUT PLAN**

NTS

07

06

01/30/25 | 3:45 PM | JUSLEAMAKER E:\00-PROJECTS\IST LR STA STANDARDS - 202303\02-TAKS 05 STATION CONFIGURATIONS\05-CAD\06-ST UPLOAD FINAL\STD-LHD108.DWG

|              |         |     |     |     |             |
|--------------|---------|-----|-----|-----|-------------|
| DESIGNED BY: |         |     |     |     |             |
| DRAWN BY:    |         |     |     |     |             |
| CHECKED BY:  |         |     |     |     |             |
| APPROVED BY: |         |     |     |     |             |
| 0            | 12/2024 |     |     |     | NEW DRAWING |
| No.          | DATE    | DSN | CHK | APP | REVISION    |

|               |       |              |       |
|---------------|-------|--------------|-------|
| SUBMITTED BY: | DATE: | REVIEWED BY: | DATE: |
|               |       |              |       |

|   |  |                                   |
|---|--|-----------------------------------|
| <b>SOUND TRANSIT</b><br><b>STANDARD DRAWINGS</b><br>LANDSCAPE |  | DRAWING No.:<br><b>STD-LHD108</b> |
| SITE FURNISHING DETAILS                                       |  | FACILITY ID:<br>SHEET No.:        |
|   |  | REV:<br>0                         |

| PIPE SIZING SCHEDULE |        |         |          |          |          |
|----------------------|--------|---------|----------|----------|----------|
| SIZE                 | 3/4"   | 1"      | 1-1/4"   | 1-1/2"   | 2"       |
| GPM RANGE            | 0 TO 8 | 8 TO 12 | 12 TO 22 | 22 TO 30 | 30 TO 50 |

[EXAMPLES - PRODUCT SHALL BE VERIFIED IN DESIGN]

| IRRIGATION SPRINKLER SCHEDULE |   |     |         |      |
|-------------------------------|---|-----|---------|------|
| SYMBOL                        | DESCRIPTION   | PSI | RADIUS  | GPM  |
| ○ MP2                         | HUNTER PROS-12-PRS40-CV, MP2000, 12" POP-UP             | 40  | 18'     | 1.27 |
| △ MP2                         | HUNTER PROS-12-PRS40-CV, MP2000, 12" POP-UP             | 40  | 18'     | 0.63 |
| ▴ MP2                         | HUNTER PROS-12-PRS40-CV, MP2000, 12" POP-UP             | 40  | 18'     | 0.33 |
| ○ MP1                         | HUNTER PROS-12-PRS40-CV, MP1000, 12" POP-UP             | 40  | 12'     | 0.65 |
| △ MP1                         | HUNTER PROS-12-PRS40-CV, MP1000, 12" POP-UP             | 40  | 12'     | 0.37 |
| ▴ MP1                         | HUNTER PROS-12-PRS40-CV, MP1000, 12" POP-UP             | 40  | 12'     | 0.16 |
| ▽ MPC                         | HUNTER PROS-12-PRS40-CV, CORNER, 12" POP-UP             | 40  | 12'     | 0.17 |
| □ MPSS                        | HUNTER PROS-12-PRS40-CV, SIDE STRIP, 12" POP-UP         | 40  | 5'x30'  | 0.38 |
| □ MPRS                        | HUNTER PROS-12-PRS40-CV, RIGHT STRIP, 12" POP-UP        | 40  | 5'x15'  | 0.19 |
| □ MPLS                        | HUNTER PROS-12-PRS40-CV, LEFT STRIP, 12" POP-UP         | 40  | 5'x15'  | 0.19 |
| □ RCS                         | RAIN BIRD 1812-SAM-PRS-RCS, 12" POP-UP                  | 30  | 4'x15'  | 0.49 |
| □ LCS                         | RAIN BIRD 1812-SAM-PRS-LCS, 12" POP-UP                  | 30  | 4'x15'  | 0.49 |
| □ SST                         | RAIN BIRD 1812-SAM-PRS-SST, 12" POP-UP                  | 30  | 4'x30'  | 1.21 |
| ○ 5                           | RAIN BIRD 1812-SAM-PRS-5F, 12" POP-UP                   | 30  | 5'      | 0.41 |
| △ 5                           | RAIN BIRD 1812-SAM-PRS-5H, 12" POP-UP                   | 30  | 5'      | 0.20 |
| ▴ 5                           | RAIN BIRD 1812-SAM-PRS-5Q, 12" POP-UP                   | 30  | 5'      | 0.10 |
| ▽ 6                           | RAIN BIRD 1812-SAM-PRS-6VAN, 12" POP-UP                 | 30  | 6'      | 0.37 |
| ○ 8                           | RAIN BIRD 1812-SAM-PRS-8F, 12" POP-UP                   | 30  | 8'      | 1.05 |
| △ 8                           | RAIN BIRD 1812-SAM-PRS-8H, 12" POP-UP                   | 30  | 8'      | 0.52 |
| ▴ 8                           | RAIN BIRD 1812-SAM-PRS-8Q, 12" POP-UP                   | 30  | 8'      | 0.26 |
| ▽ 8                           | RAIN BIRD 1812-SAM-PRS-8VAN, 12" POP-UP                 | 30  | 8'      | 0.72 |
| ○ 10                          | RAIN BIRD 1812-SAM-PRS-10F, 12" POP-UP                  | 30  | 10'     | 1.58 |
| △ 10                          | RAIN BIRD 1812-SAM-PRS-10H, 12" POP-UP                  | 30  | 10'     | 0.79 |
| ▴ 10                          | RAIN BIRD 1812-SAM-PRS-10Q, 12" POP-UP                  | 30  | 10'     | 0.39 |
| ▽ 10                          | RAIN BIRD 1812-SAM-PRS-10VAN, 12" POP-UP                | 30  | 10'     | 0.75 |
| °                             | RAIN BIRD RWS-B-G, ROOT WATERING SYSTEM W/ 1401 BUBBLER | 30  | BUBBLER | 0.25 |

| VALVE SCHEDULE           |           |      |        |     |
|--------------------------|-----------|------|--------|-----|
| SOUTH STATION SYSTEM 'S' |           |      |        |     |
| VALVE                    | ZONE TYPE | GPM  | SIZE   | PSI |
| S1                       | DRIP      | 10.9 | 1"     | 30  |
| S2                       | SPRINKLER | 10.5 | 1"     | 30  |
| S3                       | DRIP      | 10.5 | 1"     | 30  |
| S4                       | DRIP      | 6.0  | 1"     | 30  |
| S5                       | DRIP      | 15.7 | 1"     | 30  |
| S6                       | SPRINKLER | 5.5  | 1"     | 30  |
| S7                       | DRIP      | 5.2  | 1"     | 30  |
| S8                       | SPRINKLER | 2.6  | 1"     | 30  |
| S9                       | DRIP      | 19.2 | 1"     | 30  |
| NORTH STATION SYSTEM 'N' |           |      |        |     |
| VALVE                    | ZONE TYPE | GPM  | SIZE   | PSI |
| N1                       | DRIP      | 15.5 | 1"     | 30  |
| N2                       | DRIP      | 12.3 | 1"     | 30  |
| N3                       | DRIP      | 8.5  | 1"     | 30  |
| N4                       | DRIP      | 3.4  | 1"     | 30  |
| N5                       | DRIP      | 9.8  | 1"     | 30  |
| N6                       | DRIP      | 4.9  | 1"     | 30  |
| N7                       | DRIP      | 5.1  | 1"     | 30  |
| N8                       | DRIP      | 10.6 | 1"     | 30  |
| N9                       | DRIP      | 5.1  | 1"     | 30  |
| ROW SYSTEM 'A'           |           |      |        |     |
| VALVE                    | ZONE TYPE | GPM  | SIZE   | PSI |
| A1                       | SPRINKLER | 35.5 | 1 1/2" | 30  |
| A2                       | SPRINKLER | 11.5 | 1"     | 30  |
| A3                       | SPRINKLER | 33.7 | 1 1/2" | 30  |
| A4                       | SPRINKLER | 27.6 | 1 1/2" | 30  |
| A5                       | SPRINKLER | 35.0 | 1 1/2" | 30  |
| A6                       | SPRINKLER | 37.3 | 1 1/2" | 30  |
| A7                       | SPRINKLER | 37.3 | 1 1/2" | 30  |
| A8                       | SPRINKLER | 25.2 | 1 1/2" | 30  |
| A9                       | SPRINKLER | 19.8 | 1"     | 30  |
| A10                      | SPRINKLER | 33.2 | 1 1/2" | 30  |
| A11                      | SPRINKLER | 31.3 | 1 1/2" | 30  |
| A12                      | SPRINKLER | 22.0 | 1 1/2" | 30  |
| A13                      | SPRINKLER | 27.6 | 1 1/2" | 30  |
| ROW SYSTEM 'B'           |           |      |        |     |
| VALVE                    | ZONE TYPE | GPM  | SIZE   | PSI |
| B1                       | SPRINKLER | 11.1 | 1"     | 30  |
| B2                       | SPRINKLER | 24.9 | 1 1/2" | 30  |

**IRRIGATION LEGEND:**

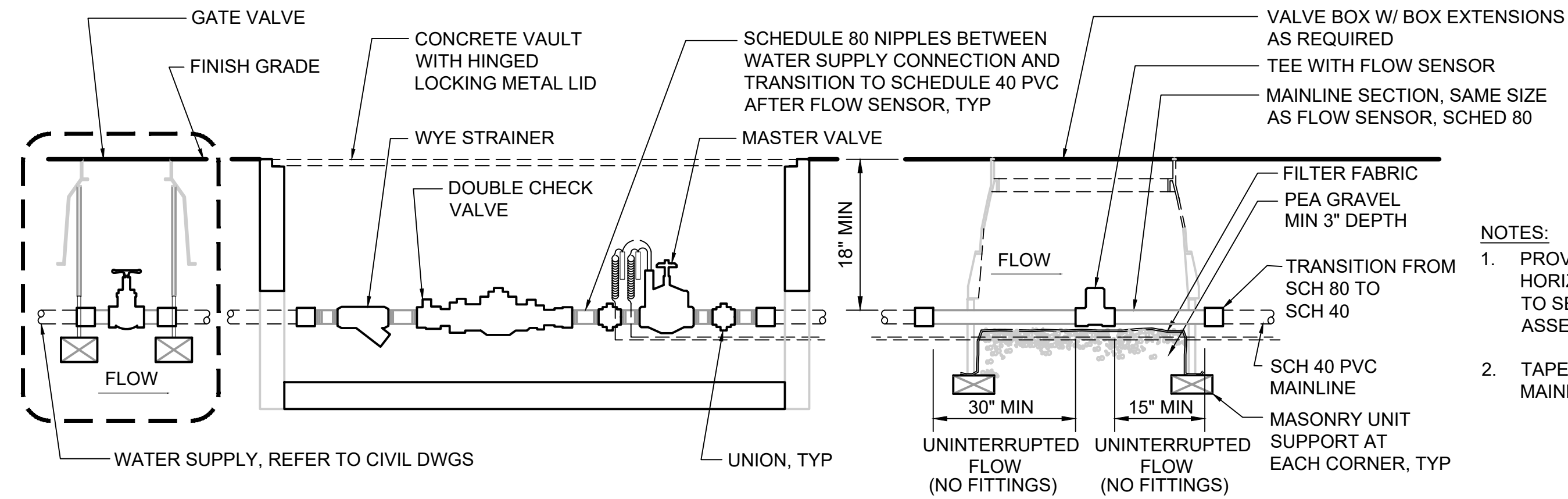
|  |                                |
|--|--------------------------------|
|  | IRRIGATION POINT OF CONNECTION |
|  | DRIP CONTROL VALVE             |
|  | SPRINKLER CONTROL VALVE        |
|  | GATE VALVE                     |
|  | QUICK COUPLER VALVE            |
|  | MAINLINE (SIZED AS NOTED)      |
|  | LATERAL                        |
|  | PIPE SLEEVE                    |
|  | DRIPLINE                       |
|  | AIR RELIEF VALVE               |
|  | AUTOMATIC FLUSH VALVE          |
|  | IRRIGATION CONTROLLER          |
|  | RAIN GAUGE                     |

[EXAMPLES - ZONES, GPM, AND SYSTEM ZONES SHALL BE VERIFIED IN DESIGN]

01/30/25 | 3:44 PM | JSLEAMAKER E:\00-PROJECTS\LR STA STANDARDS - 20230302-TAKS 05 STATION CONFIGURATIONS\05-CAD\06-ST UPLOAD FINAL\STD-LRD201.DWG

|               |         |     |     |     |             |  |              |  |       |                             |                     |  |  |                                   |  |      |  |
|---------------|---------|-----|-----|-----|-------------|--|--------------|--|-------|-----------------------------|---------------------|--|--|-----------------------------------|--|------|--|
| DESIGNED BY:  |         |     |     |     |             |  |              |  |       | SCALE:<br>NTS               |                     | <b>SOUND TRANSIT<br/>STANDARD DRAWINGS<br/>LANDSCAPE</b> |  | DRAWING No.:<br><b>STD-LRD201</b> |  |      |  |
| DRAWN BY:     |         |     |     |     |             |  |              |  |       | FILENAME:<br>STD-LRD201.DWG |                     |  |  | FACILITY ID:                      |  |      |  |
| CHECKED BY:   |         |     |     |     |             |  |              |  |       | CONTRACT No.:               |                     |  |  | SHEET No.:                        |  | REV: |  |
| APPROVED BY:  |         |     |     |     |             |  |              |  |       | DATE:<br>12/2024            |                     |  |  | REV:<br>0                         |  |      |  |
| SUBMITTED BY: |         |     |     |     | DATE:       |  | REVIEWED BY: |  | DATE: |                             | IRRIGATION SCHEDULE |  |  |                                   |  |      |  |
| No.           | DATE    | DSN | CHK | APP | REVISION    |  |              |  |       |                             |                     |  |  |                                   |  |      |  |
| 0             | 12/2024 |     |     |     | NEW DRAWING |  |              |  |       |                             |                     |  |  |                                   |  |      |  |



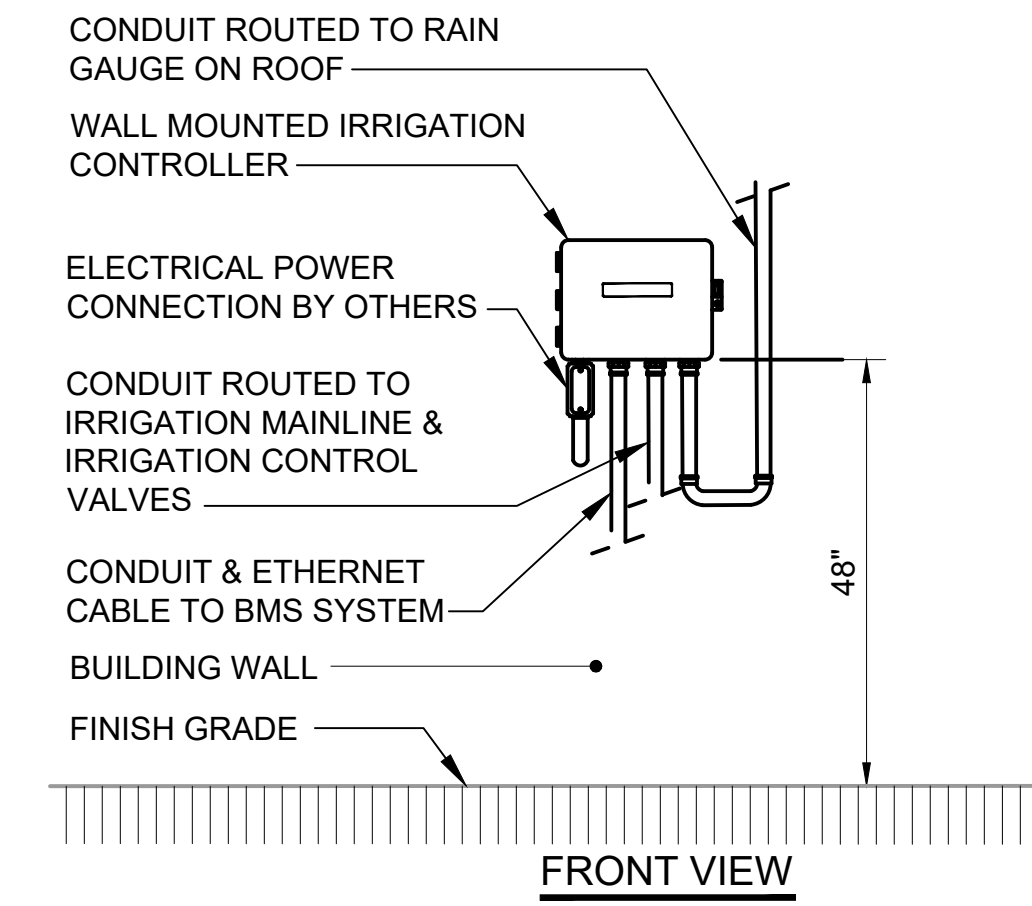


- NOTES:**
1. PROVIDE PEDESTAL, TRIPOD OR HORIZONTAL STRUT PIPE SUPPORTS TO SECURE POINT OF CONNECTION ASSEMBLY TO CONCRETE VAULT.
  2. TAPE WIRES TO BOTTOM OF MAINLINE, TYP.

**IRRIGATION POINT OF CONNECTION (EXAMPLE CONFIGURATION)**

NTS

01

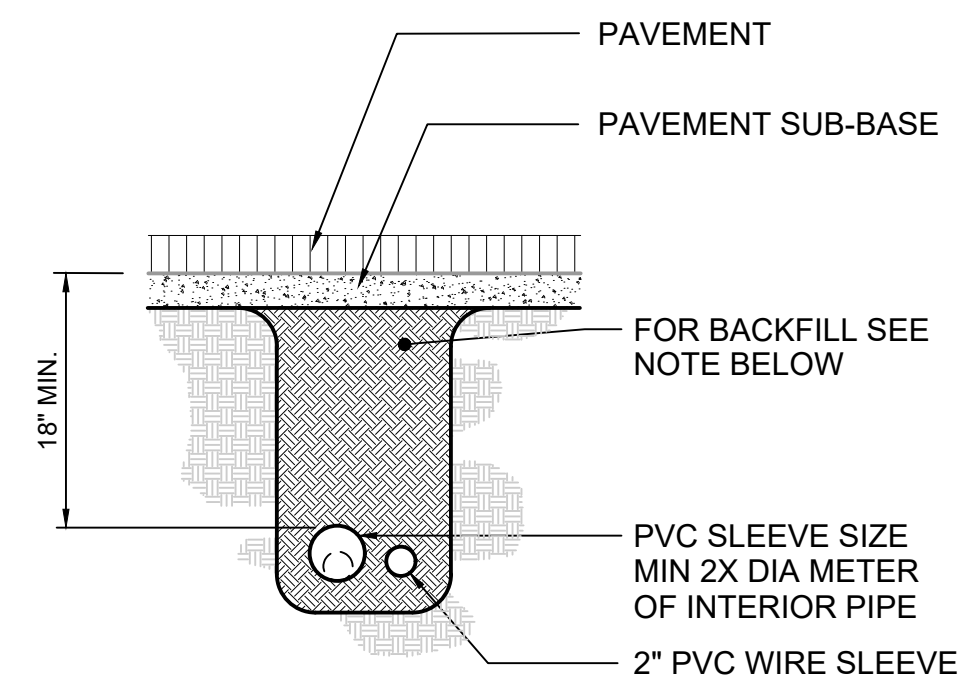


- NOTES:**
1. INSTALL ALL WIRING IN ACCORDANCE WITH LOCAL CODES.
  2. FIELD LOCATE WITH RESIDENT ENGINEER PRIOR TO INSTALLATION. COORDINATE LOCATION WITH ARCH AND MECH.

**IRRIGATION CONTROLLER - WALL MOUNT**

NTS

02

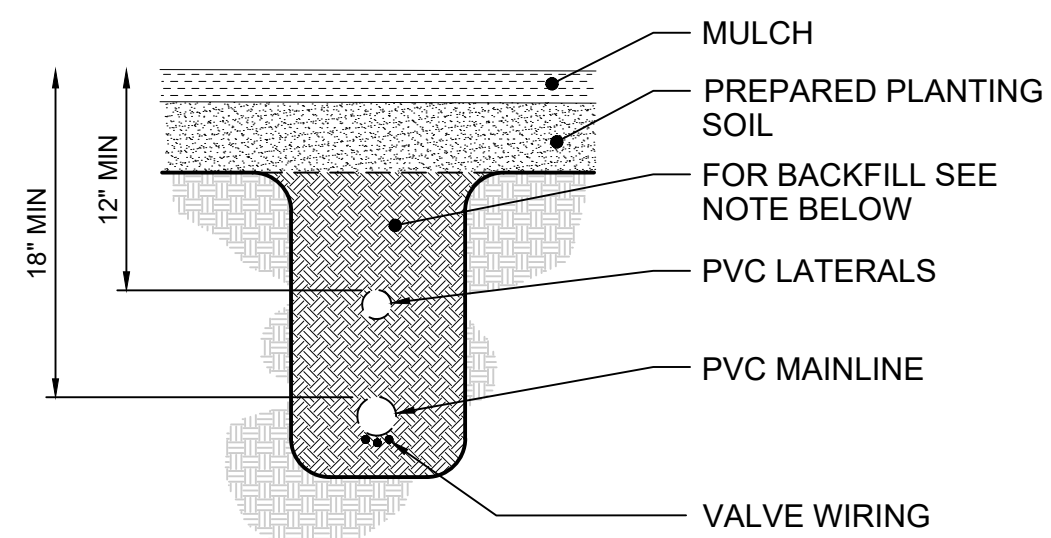


- NOTES:**
1. BACKFILL SHALL BE FREE OF ROCK OR DEBRIS LARGER THAN 1\"/>
  - 2. PROVIDE BACKFILL MATERIAL IN ACCORDANCE WITH CIVIC SPECIFICATIONS FOR TRENCHES UNDERNEATH PAVEMENTS.

**PIPE TRENCH**

NTS

03

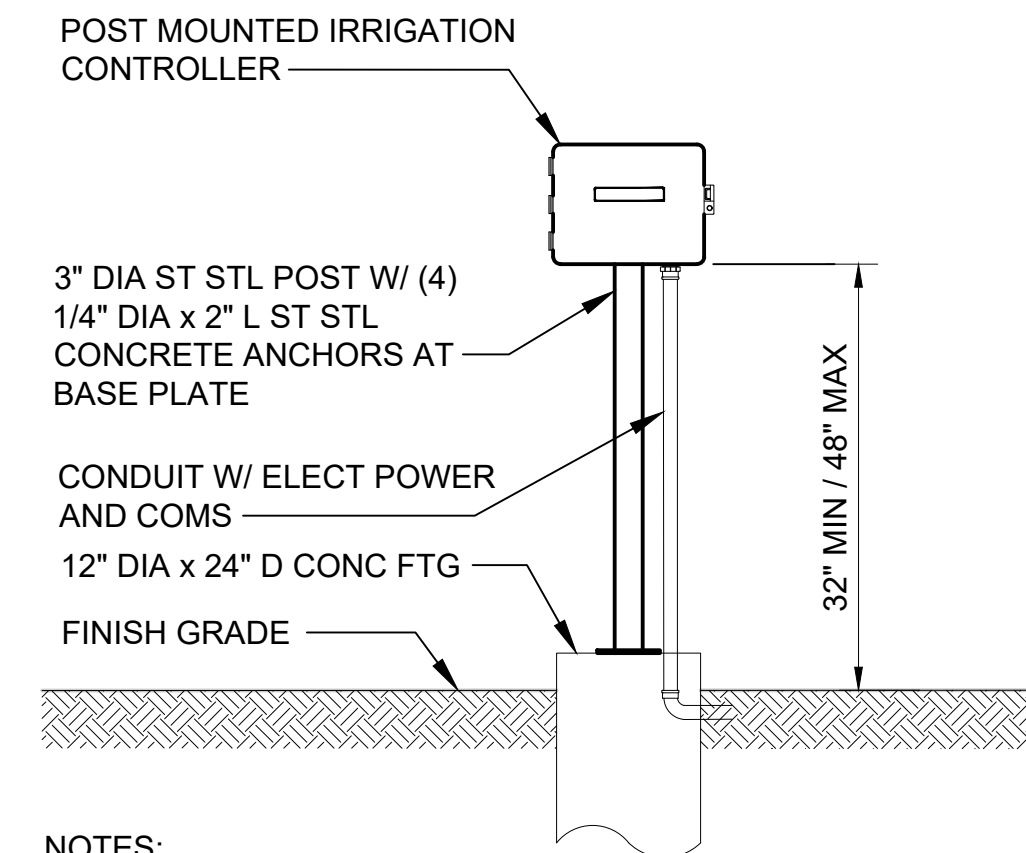


- NOTES:**
1. BACKFILL SHALL BE FREE OF ROCK OR DEBRIS LARGER THAN 1\"/>
  - 2. REPLACE DISTURBED OR DAMAGED LANDSCAPE AS NEEDED.

**PIPE SLEEVE**

NTS

04



- NOTES:**
1. INSTALL ALL WIRING IN ACCORDANCE WITH LOCAL CODES.
  2. FIELD LOCATE WITH RESIDENT ENGINEER PRIOR TO INSTALLATION. COORDINATE LOCATION WITH LANDSCAPE ARCHITECT.

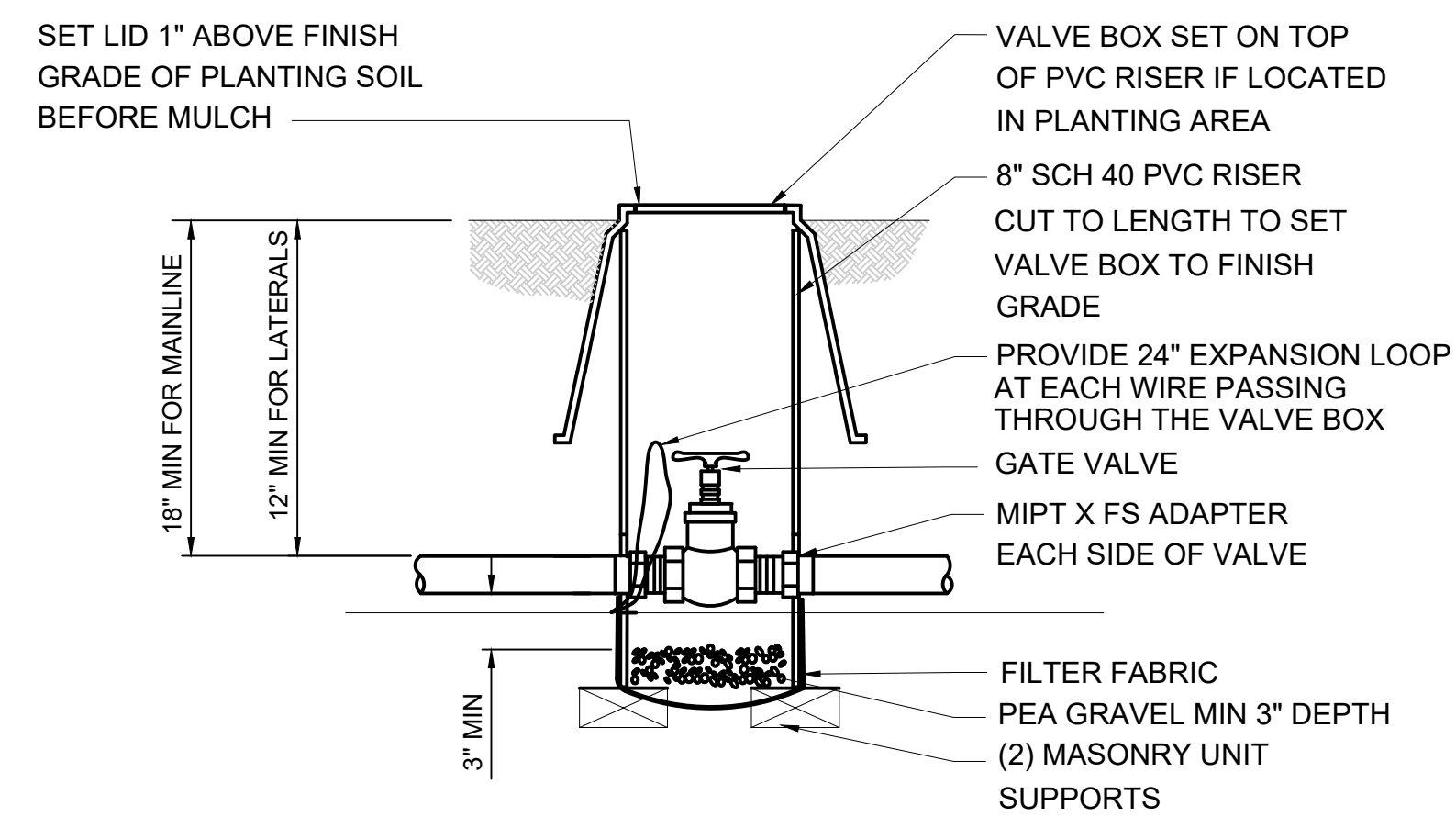
**IRRIGATION CONTROLLER - POST MOUNT**

NTS

05

01/30/25 | 3:44 PM | JSLEAMAKER E:\00-PROJECTS\LR STA STANDARDS - 20230302-TAKS 05 STATION CONFIGURATIONS\05-CAD\06-ST UPLOAD FINAL\STD-LRD202.DWG

|     |         |     |     |     |              |               |       |              |       |                           |                |  |              |            |
|-----|---------|-----|-----|-----|--------------|---------------|-------|--------------|-------|---------------------------|----------------|--|--------------|------------|
|     |         |     |     |     | DESIGNED BY: |               |       |              |       | SCALE:                    | AS NOTED       | <b>SOUND TRANSIT<br/>STANDARD DRAWINGS<br/>LANDSCAPE</b> | DRAWING No.: | STD-LRD202 |
|     |         |     |     |     | DRAWN BY:    |               |       |              |       | FILENAME:                 | STD-LRD202.DWG |  | FACILITY ID: |            |
|     |         |     |     |     | CHECKED BY:  |               |       |              |       | CONTRACT No.:             |                |  | SHEET No.:   | REV:       |
|     |         |     |     |     | APPROVED BY: |               |       |              |       | DATE:                     | 12/2024        |  |              | 0          |
| No. | DATE    | DSN | CHK | APP | REVISION     | SUBMITTED BY: | DATE: | REVIEWED BY: | DATE: | IRRIGATION DETAILS 1 OF 3 |                |  |              |            |
| 0   | 12/2024 |     |     |     | NEW DRAWING  |               |       |              |       |                           |                |  |              |            |

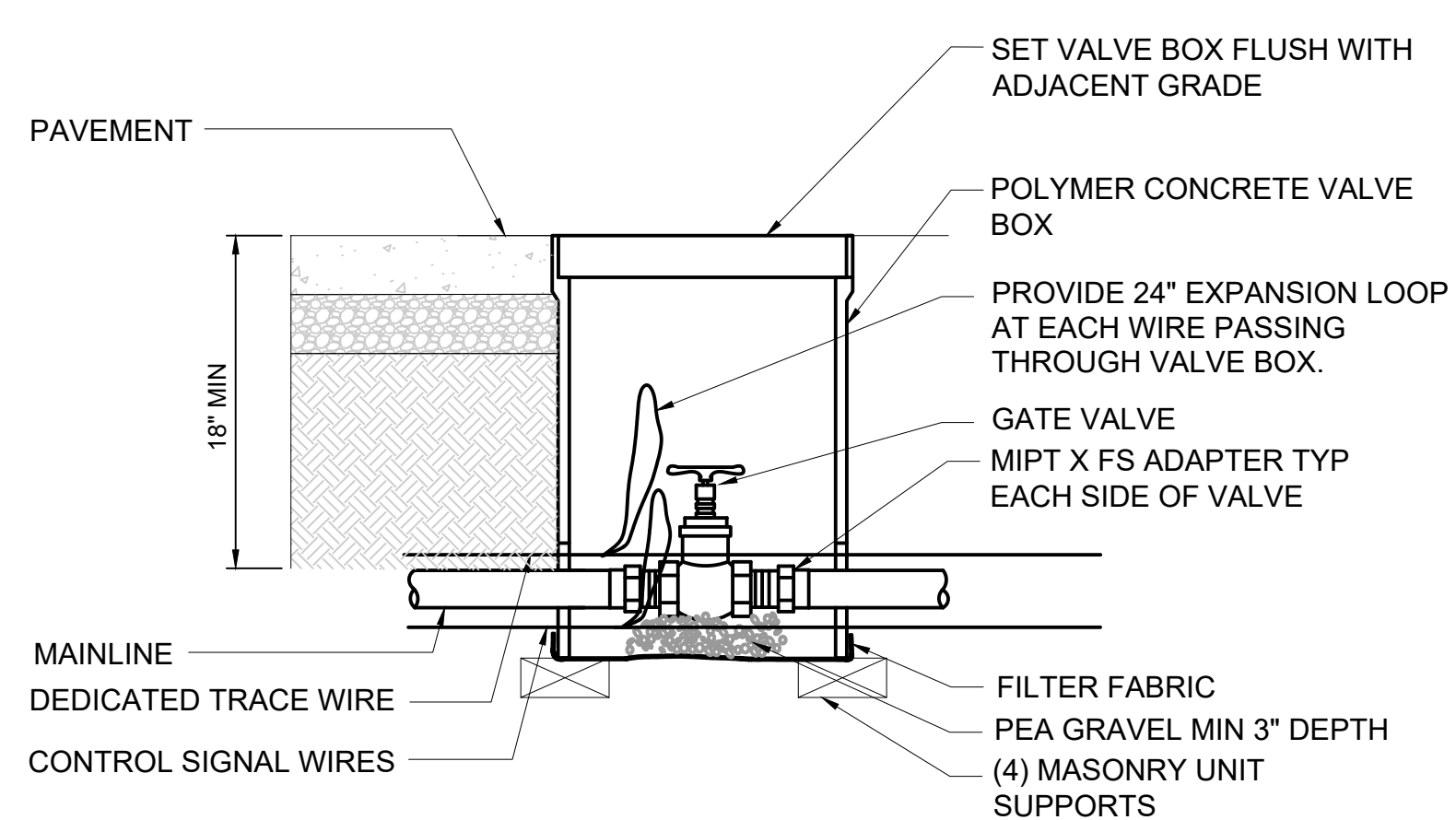


- NOTES:**
- DO NOT REST VALVE BOX AND RISER ON PIPES.
  - BUNDLE AND TAPE TO BOTTOM OF MAINLINE WIRE EVERY TEN FEET.
  - SEAL OPENING IN RISER WITH FILTER FABRIC ATTACHED TO OUTSIDE OF RISER. PLACE PEA GRAVEL TO A MINIMUM DEPTH OF 3" OVER FABRIC.

**GATE VALVE**

NTS

01

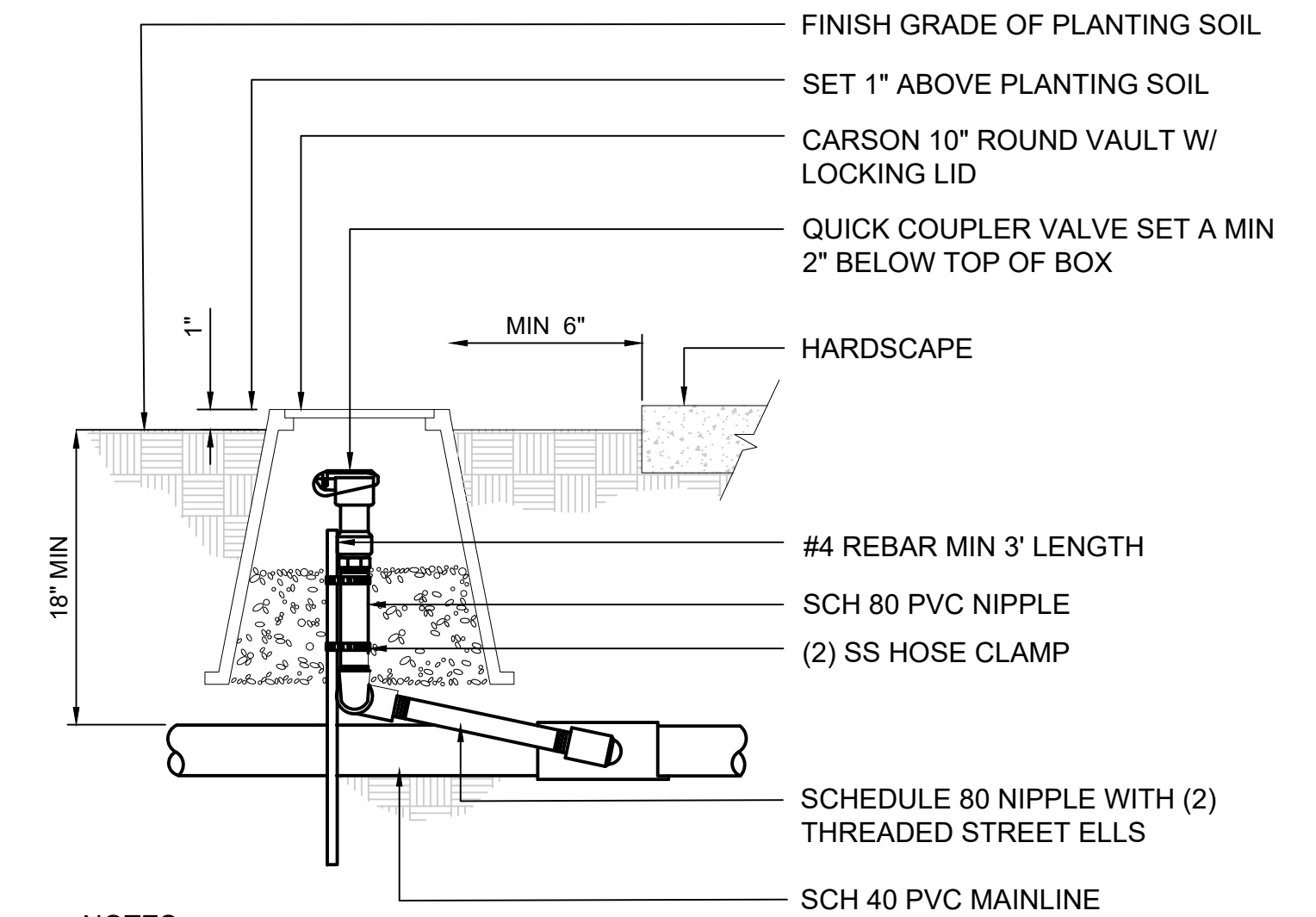


- NOTES:**
- DO NOT REST VALVE BOX AND RISER ON PIPES.
  - BUNDLE WIRE AND TAPE TO PIPE EVERY TEN FEET.
  - SEAL OPENING IN RISER WITH FILTER FABRIC ATTACHED TO OUTSIDE OF RISER. PLACE PEA GRAVEL TO A MINIMUM DEPTH OF 3" OVER FABRIC.
  - USE VALVE BOX RISERS AS NEEDED.

**GATE VALVE IN PAVEMENT**

NTS

02

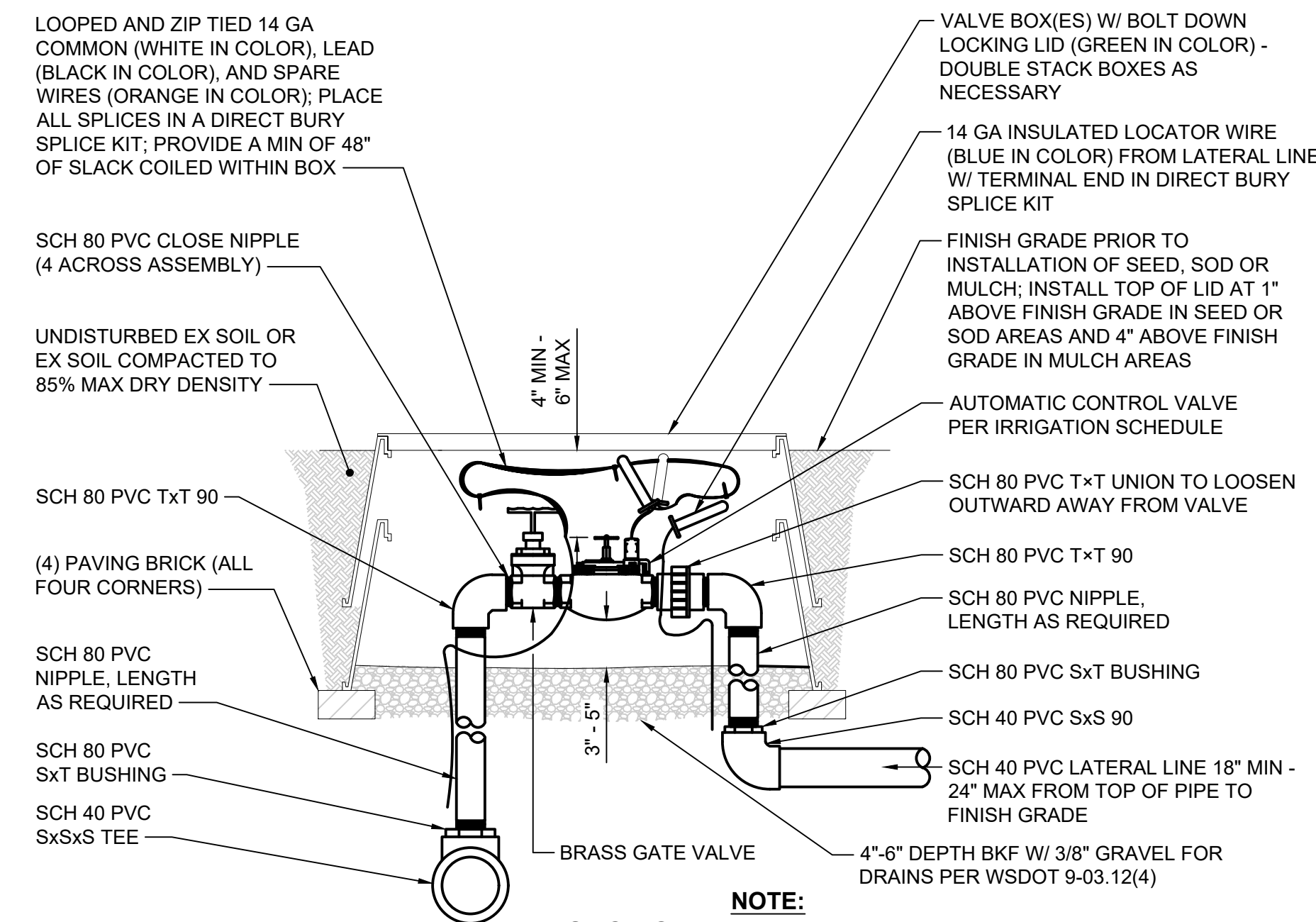


- NOTES:**
- VALVE BOX SHALL NOT REST ON PIPES.
  - VALVE TO BE SET PLUMB & CENTERED IN VALVE BOX.
  - PROVIDE DRAIN ROCK TO A MIN DEPTH OF 6".
  - CONTRACTOR TO PROVIDE (1) QCV KEY AND (1) SWIVEL HOSE ELL FOR EVERY THREE QUICK COUPLERS.

**QUICK COUPLER VALVE**

NTS

03

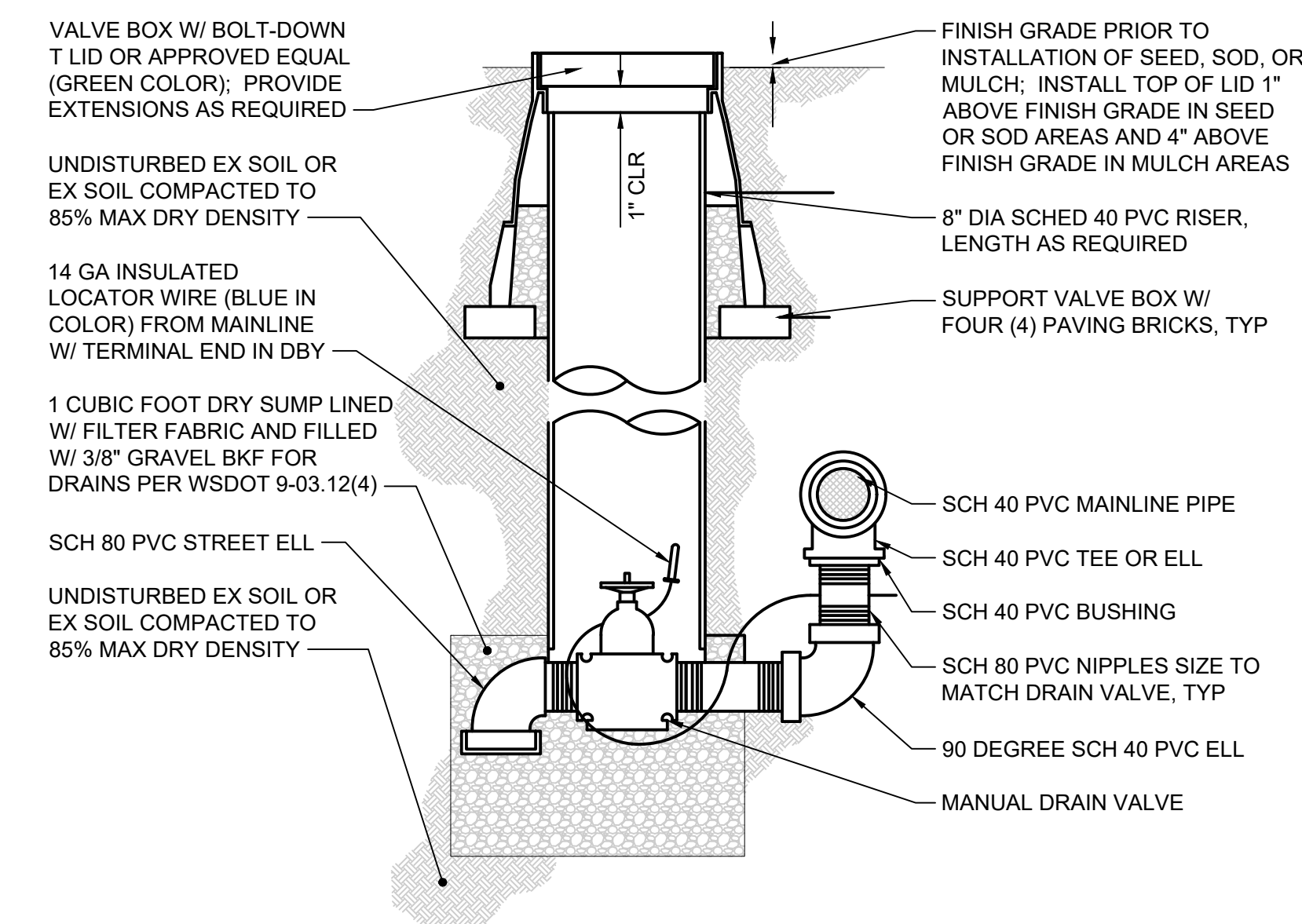


- NOTE:**
- ASSEMBLY PIPE SIZE TO MATCH VALVE INLET SIZE.

**AUTOMATIC CONTROL VALVE**

NTS

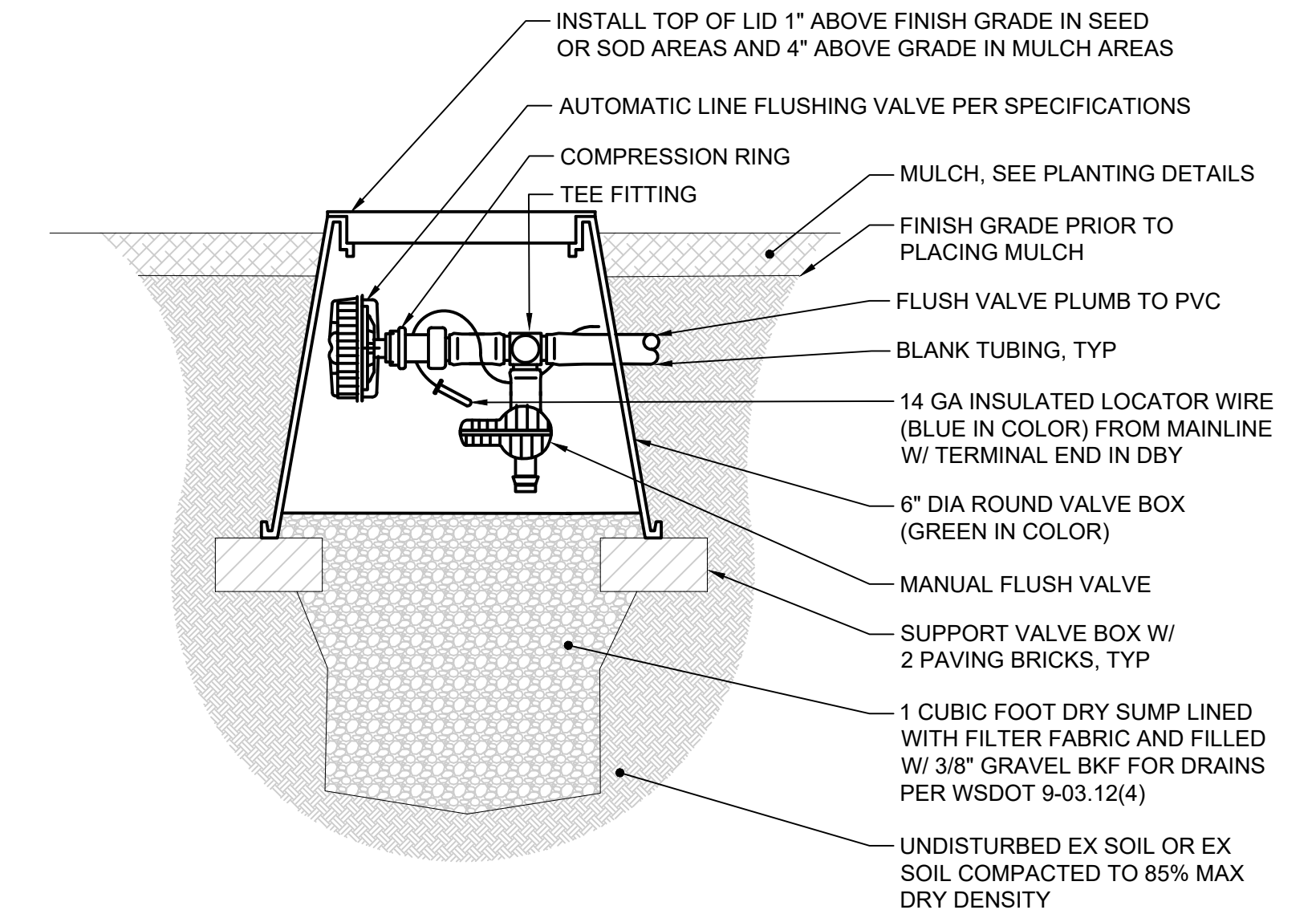
04



**MANUAL DRAIN VALVE**

NTS

05



**AUTOMATIC AND MANUAL FLUSHING VALVES**

NTS

06

01/30/25 | 3:45 PM | JSLEAMAKER E:\00-PROJECTS\LR STA STANDARDS - 20230302-TAKS 05 STATION CONFIGURATIONS\05-CAD\06-ST UPLOAD FINAL\STD-LRD203.DWG

| DESIGNED BY: |         |     |     |     |             |
|--------------|---------|-----|-----|-----|-------------|
| DRAWN BY:    |         |     |     |     |             |
| CHECKED BY:  |         |     |     |     |             |
| APPROVED BY: |         |     |     |     |             |
| 0            | 12/2024 | DSN | CHK | APP | NEW DRAWING |
| No.          | DATE    | DSN | CHK | APP | REVISION    |

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| DESIGNED BY: |  |
| DRAWN BY:    |  |
| CHECKED BY:  |  |
| APPROVED BY: |  |

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| SUBMITTED BY: |  |
| DATE:         |  |
| REVIEWED BY:  |  |
| DATE:         |  |

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| DATE: |  |
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| DATE: |  |
| DATE: |  |

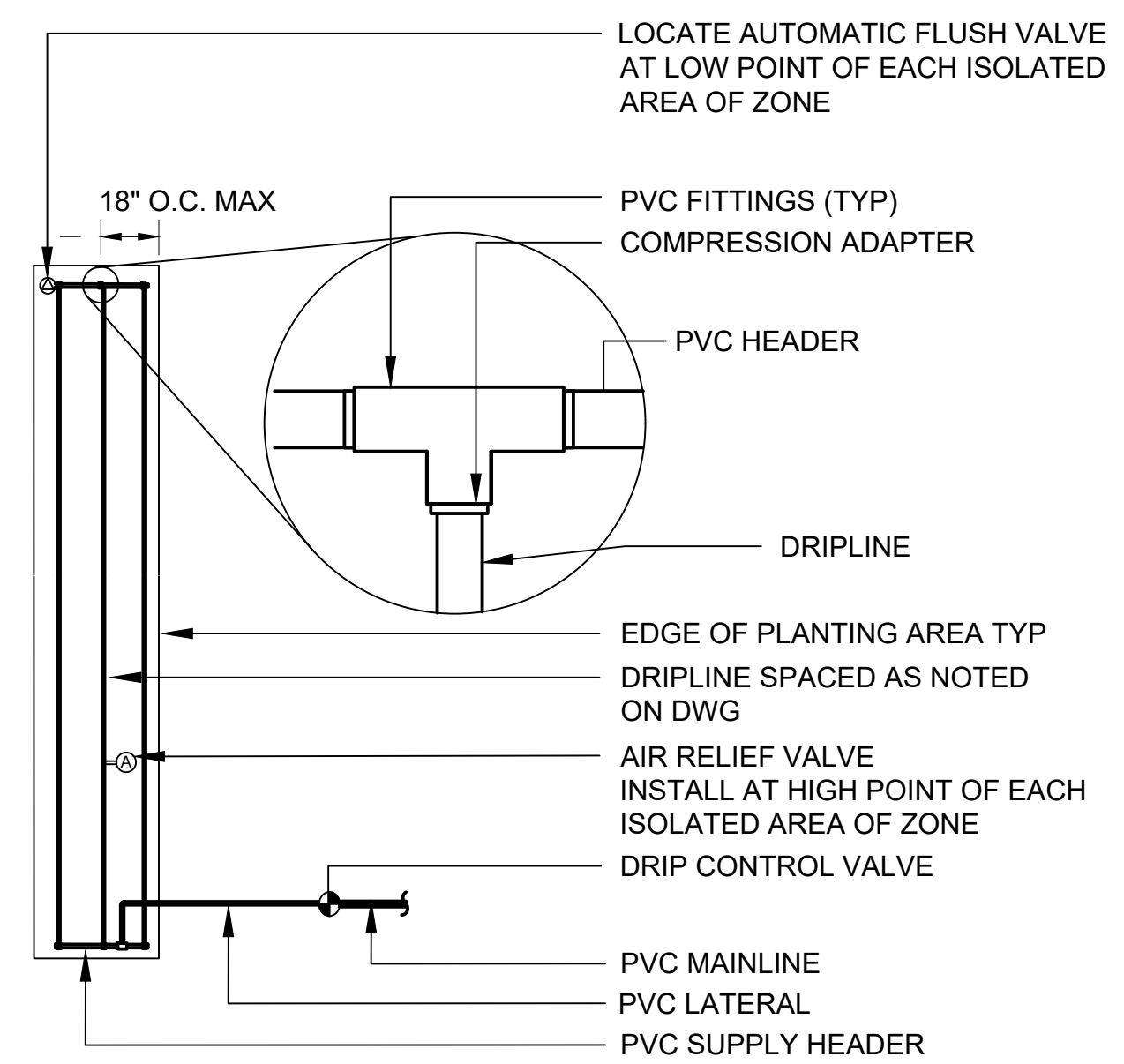
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| DATE: |  |
| DATE: |  |

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| SCALE:        | AS NOTED       |
| FILENAME:     | STD-LRD203.DWG |
| CONTRACT No.: |                |

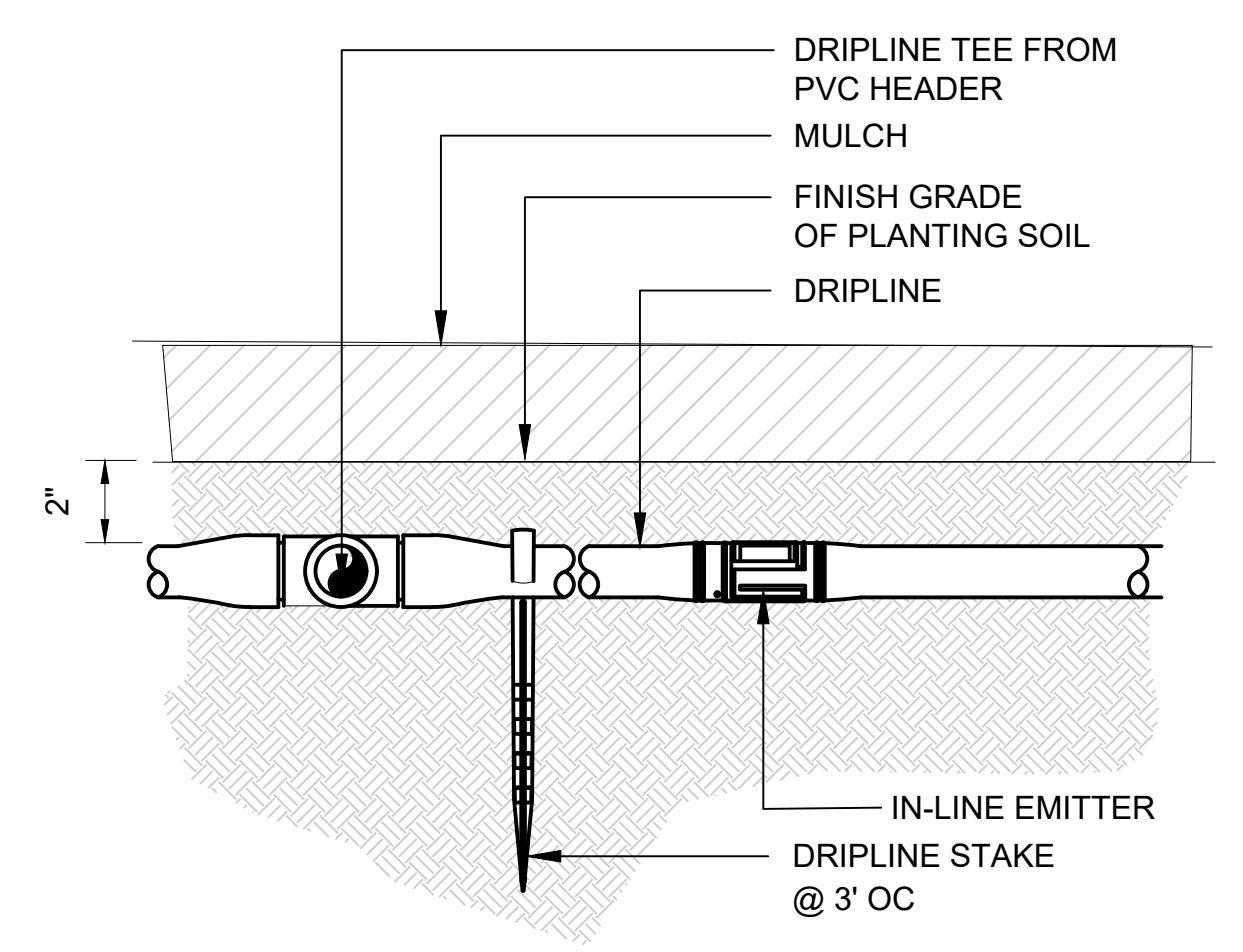
|       |         |
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| DATE: | 12/2024 |
|-------|---------|

|  |  |
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| <b>SOUND TRANSIT<br/>STANDARD DRAWINGS<br/>LANDSCAPE</b> |  |
| IRRIGATION DETAILS 2 OF 3                                |  |

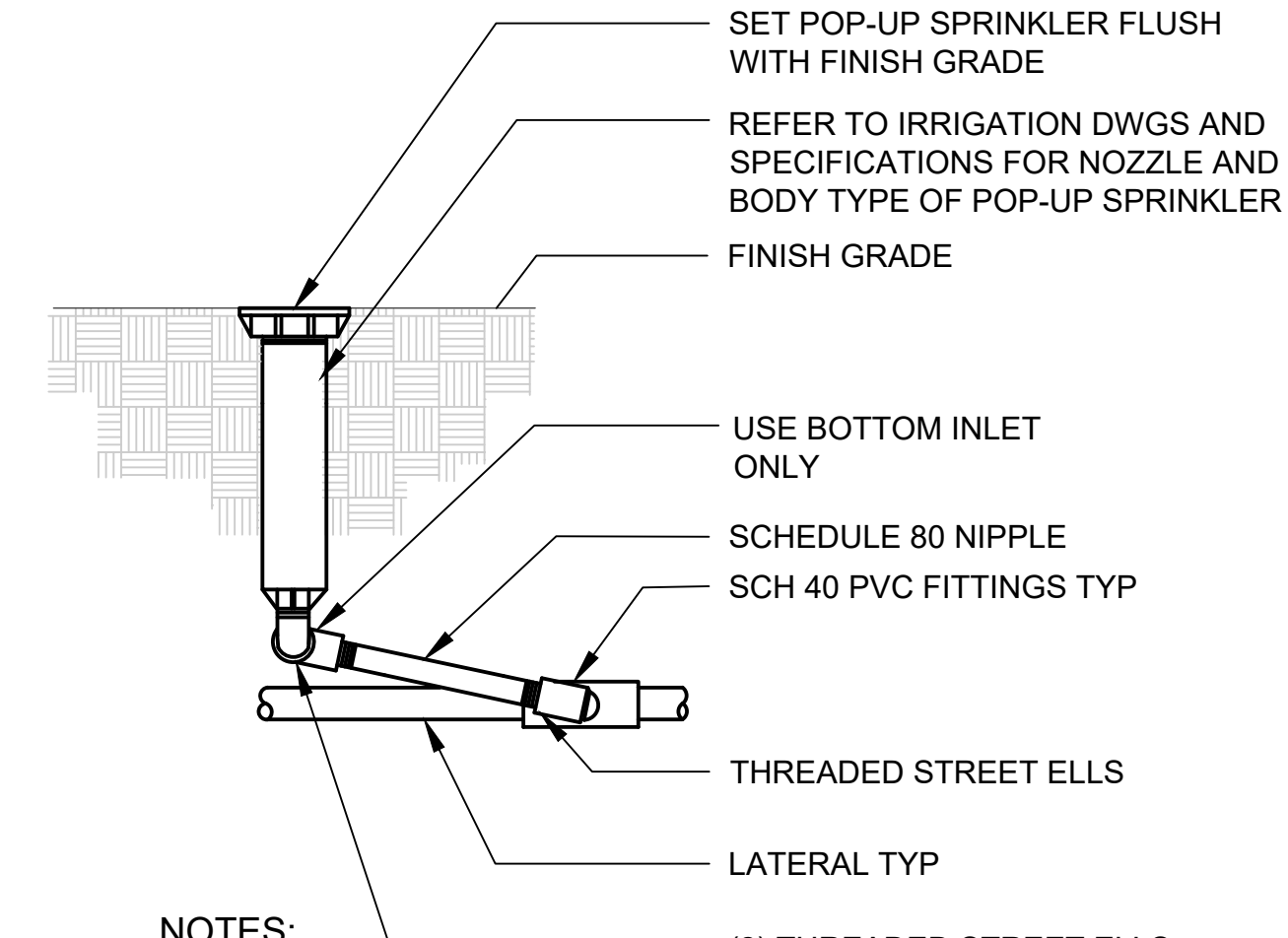
|              |            |
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| DRAWING No.: | STD-LRD203 |
| FACILITY ID: |            |
| SHEET No.:   | REV: 0     |



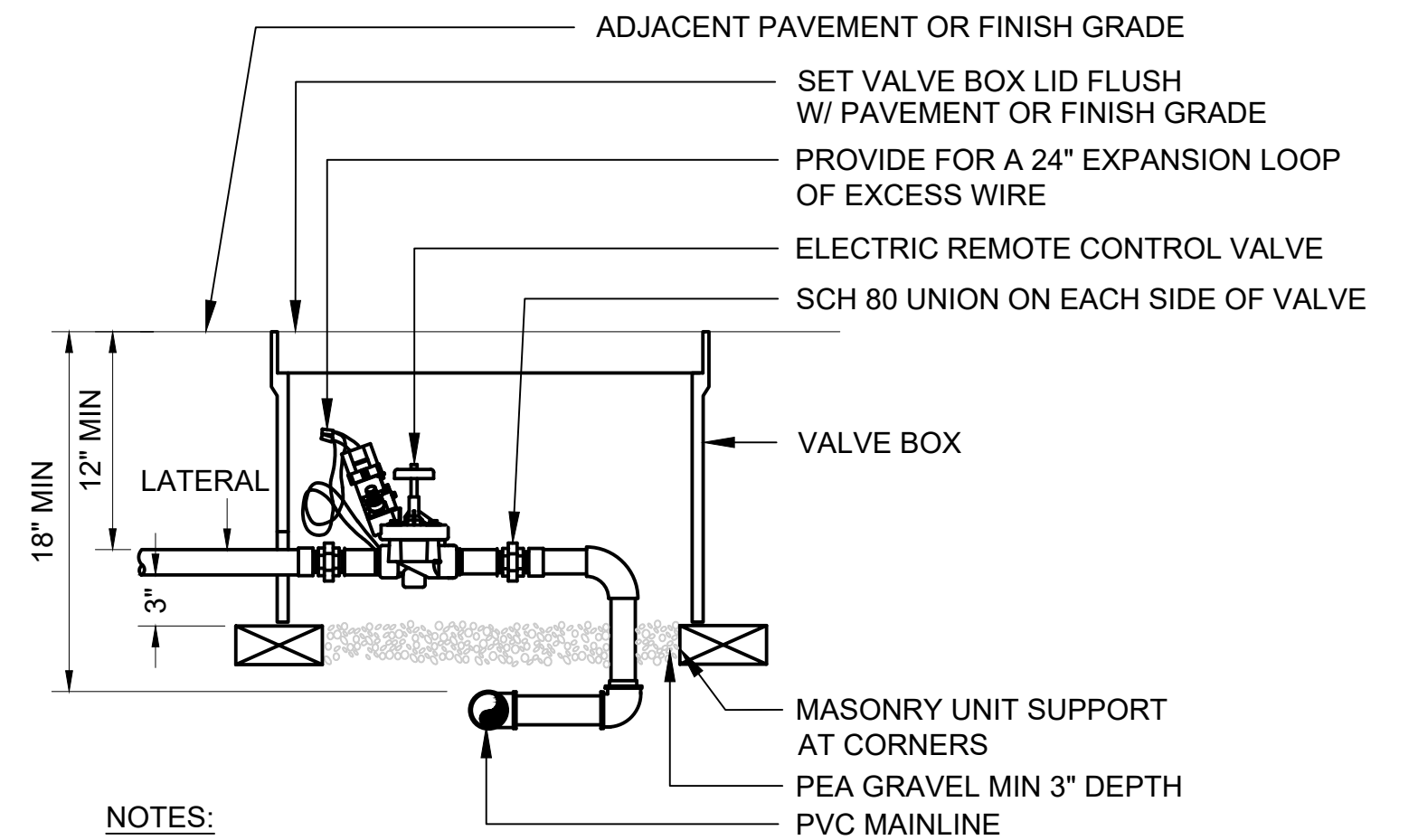
**DRIPLINE LAYOUT**



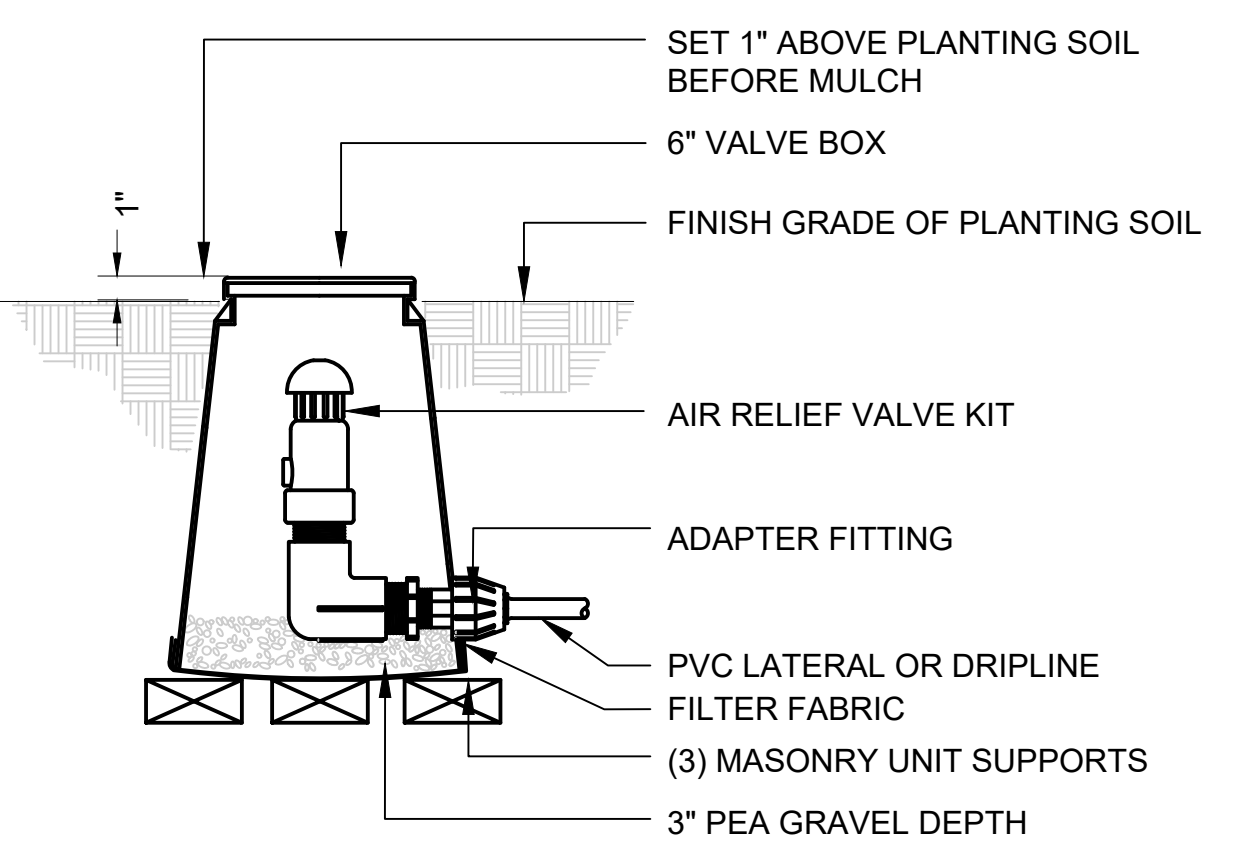
**DRIPLINE**



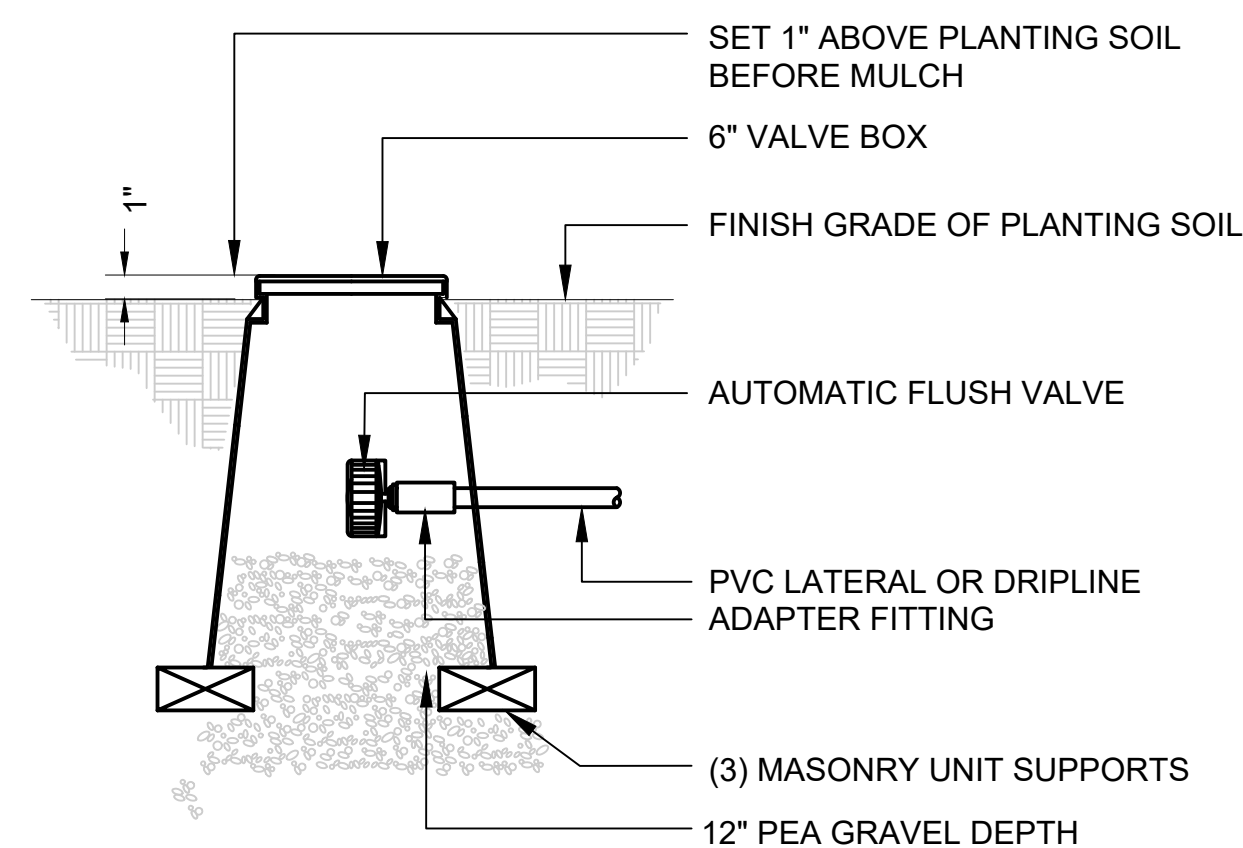
**POP-UP SPRINKLER**



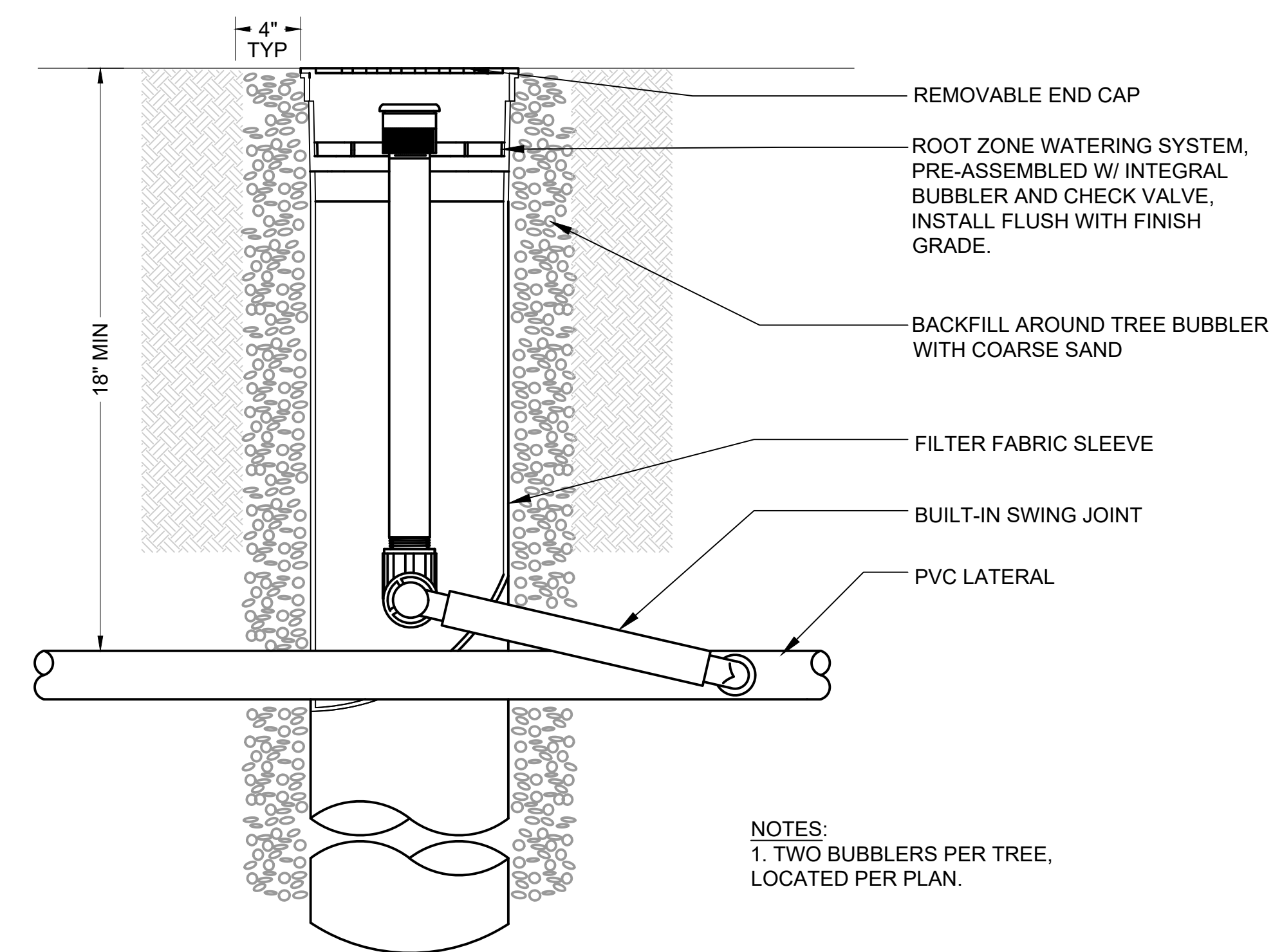
**SPRINKLER CONTROL VALVE**



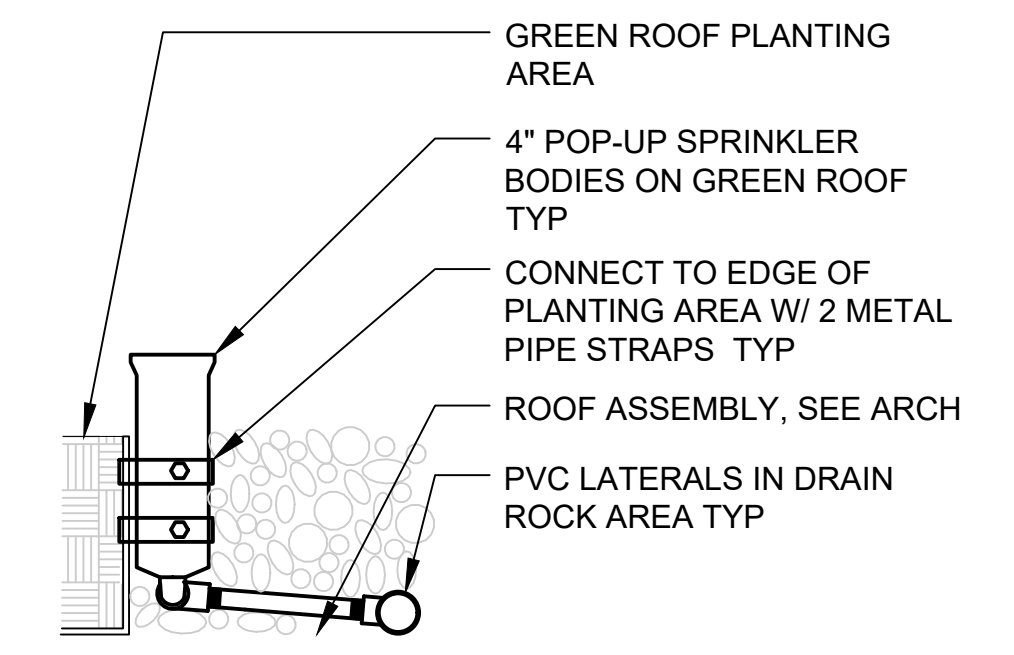
**AIR RELIEF VALVE**



**FLUSH VALVE**



**TREE BUBBLER**



**GREEN ROOF SPRINKLER**

01/30/25 | 3:44 PM | JSLEAMAKER E:\00-PROJECTS\LR STA STANDARDS - 20230302-TAKS 05 STATION CONFIGURATIONS\05-CAD\06-ST UPLOAD FINAL\STD-LRD204.DWG

| No. | DATE    | DSN | CHK | APP | REVISION    |
|-----|---------|-----|-----|-----|-------------|
| 0   | 12/2024 |     |     |     | NEW DRAWING |

|              |  |
|--------------|--|
| DESIGNED BY: |  |
| DRAWN BY:    |  |
| CHECKED BY:  |  |
| APPROVED BY: |  |

|               |       |              |       |
|---------------|-------|--------------|-------|
| SUBMITTED BY: | DATE: | REVIEWED BY: | DATE: |
|---------------|-------|--------------|-------|

|                             |  |
|-----------------------------|--|
| SCALE:<br>AS NOTED          |  |
| FILENAME:<br>STD-LRD204.DWG |  |
| CONTRACT No.:               |  |

|  |  |
|--|--|
| <b>SOUND TRANSIT<br/>STANDARD DRAWINGS<br/>LANDSCAPE</b> |  |
| IRRIGATION DETAILS 3 OF 3                                |  |

|              |                   |
|--------------|-------------------|
| DRAWING No.: | <b>STD-LRD204</b> |
| FACILITY ID: |                   |
| SHEET No.:   | REV:<br>0         |

**GENERAL TREE NOTES:**

- 1. SEE PLANTING AND IRRIGATION PLANS STD-LPP301, STD-LPP-302, STD-LPP-303, STD-LPP-304, STD-LPP-305 FOR GENERAL LOCATIONS OF TREES AND PLANTING AREAS.
- 2. ALL TREES IN PLAZA AREAS WITHIN STATION SITES SHALL HAVE BRANCHING 7 FEET MINIMUM ABOVE FINISH GRADE TO MEET CPTED GUIDELINES.
- 3. TREES WITHIN RAINGARDEN, BIORETENTION, OR PLANTING AREAS WIDER THAN 20 FEET WHERE TREES ARE LOCATED MINIMUM 10 FEET FROM EDGE OF PAVEMENT SHALL HAVE BRANCHING 5 FEET MINIMUM ABOVE FINISH GRADE.
- 4. TREES WITHIN THE ROW SHALL FOLLOW THE SIZE AND SPACING REQUIREMENTS OF THE AHJ AS MINIMUM UNLESS OTHERWISE NOTED.
- 5. TREES WITHIN THE ROW SHALL CONSIDER GUIDANCE LISTS FOR APPROVED SPECIES.

- \* TREE HEIGHT SHALL FIT WITHIN CONSTRAINTS OF GUIDEWAY AND PLATFORM CLEARANCES.
- \* TREE PLANTING AREA REQUIREMENTS FOR ROOT AREA SHALL BE MET WITHIN OPEN PLANTERS AND SOIL CELL ZONES FOR ALL ON-SITE AND ROW LOCATIONS.


| TREE SCHEDULE |         |  |                          |          |         |         |           |     |             |              |                |                |
|---------------|---------|--|--------------------------|----------|---------|---------|-----------|-----|-------------|--------------|----------------|----------------|
| QTY           | ABBR    | BOTANICAL NAME                           | COMMON NAME              | MIN SIZE | HEIGHT  | WIDTH   | SPACING   | ROW | BIKE BUFFER | BIORETENTION | UNDER PLATFORM | UNDER GUIDEWAY |
|               | ACE CIR | ACER CIRCINATUM                          | VINE MAPLE               | 2"       | 15'     | 10'     | 8' - 12'  | N   | N           | Y            | Y              | Y              |
|               | ACE GLA | ACER GLABRUM                             | DOUGLAS MAPLE            | 2"       |         |         |           | X   | X           |              |                |                |
|               | ACE PAL | ACER PALMATUM 'SANGO-KAKU'               | CORAL BARK MAPLE         | 2"       |         |         |           | N   | X           |              | Y              | Y              |
|               | ACE CAM | ACER CAMPESTRE 'PANACEK'                 | METRO GOLD MAPLE         | 3"       | 35'     | 20'     | 15' - 20' | Y   | N           | N            | Y*             | Y*             |
|               | ACE CIR | ACER CIRCINATUM 'PACIFIC FIRE'           | PACIFIC FIRE MAPLE       | 2"       | 12'     | 8'      | 6' - 12'  | N   | N           | Y            | Y              | Y              |
|               | ACE PAL | ACER PALMATUM                            | GREEN JAPANESE MAPLE     | 2"       | 20'     | 24'     | 12' - 20' | N   | N           | Y            | Y              | Y              |
|               | ACE FRE | ACER X FREEMANII 'JEFFERSRED'            | AUTUMN BLAZE MAPLE       | 3"       | 50'     | 40'     | 25' - 40' | Y   | N           |              | N              | N              |
|               | ACE RUB | ACER RUBRUM 'BOWHALL'                    | BOWHALL RED MAPLE        | 3"       | 40'     | 15'     | 12' - 15' | Y   | Y           | N            | N              | N              |
|               | ACE RUB | ACER RUBRUM 'KARPICK'                    | KARPICK MAPLE            | 3"       | 45'     | 17'     | 12' - 15' | Y   | Y           | Y            | N              | N              |
|               | ACE RUB | ACER RUBRUM 'WW WARREN'                  | RED SENTINEL MAPLE       | 3"       | 40'     | 18'     | 15' - 20' | Y   | Y           |              | N              | N              |
|               | ACE SAC | ACER SACCHARUM 'GREEN MOUNTAIN'          | GREEN MOUNTAIN MAPLE     | 3"       | 50'     | 40'     | 25' - 40' | Y   | N           | Y            | N              | N              |
|               | ACE TRU | ACER TRUNCATUM 'KEITHSFORM'              | NORWEGIAN SUNSET MAPLE   | 3"       | 35'     | 25'     | 15' - 25' | Y   | Y           | N            | Y*             | Y*             |
|               | AME ALN | AMELANCHIER ALNIFOLIA                    | SERVICEBERRY (SHRUBLIKE) | 2"       |         |         |           | X   | N           |              | Y              | Y              |
|               | AME GRA | AMELANCHIER GRANDIFLORA 'PRINCESS DIANA' | SERVICEBERRY (TREE FORM) | 2"       |         |         |           | X   | N           |              | Y              | Y              |
|               | CAR CAR | CARPINUS CAROLINIANA                     | AMERICAN HORNBEAM        | 3"       |         |         |           |     | N           |              | N              | N              |
|               | CAR JAP | CARPINUS JAPONICA                        | JAPANESE HORNBEAM        | 2"       |         |         |           | X   | N           |              | N              | Y              |
|               | CEL OCC | CELTIS OCCIDENTALIS 'PRAIRIE PRIDE'      | HACKBERRY TREE           | 3"       | 40'-60' | 40'-60' | 25'-40'   | N   | N           | Y            | N              | N              |
|               | CER JAP | CERCIDIPHYLLUM JAPONICUM                 | KATSURA TREE             | 2"       |         |         |           | N   | N           |              | N              | N              |
|               | CER OCC | CERCIS OCCIDENTALIS                      | WESTERN REDBUD           | 2"       | 10'-18' | 10'-18' | 10'-15'   | N   | N           | Y            | Y              | Y              |
|               | CER MON | CERCOARPUS MONTANUS OR LEDIFOLIUS        | MOUNTAIN MAHOGANY        | 2"       |         |         |           | N   | N           |              |                |                |
|               | COR KOU | CORNUS KOUSA X NUTTALLII 'KN4-43'        | STARLIGHT DOGWOOD        | 2"       | 30'     | 20'     | 12' - 20' | N   | N           |              | Y*             | Y              |
|               | COR RUT | CORNUS X 'RUTDAN'                        | CELESTIAL DOGWOOD        | 2"       | 20'     | 20'     | 12' - 20' | N   | N           |              | Y              | Y              |
|               | COR KOU | CORNUS KOUSA X NUTTALLII 'VENUS'         | VENUS DOGWOOD            | 2"       | 25'     | 20'     | 12' - 20' | N   | N           |              | Y              | Y              |
|               | COR SER | CORNUS SERICEA                           | RED TWIG DOGWOOD         | #5       | 24"     | 4 CANES | 36" OC    | N   | N           | Y            | Y              | Y              |
|               | COR COL | CORYLUS COLURNA                          | TURKISH HAZEL            | 3"       | 44'     | 30'     | 20'-30'   | Y   | N           | X            | N              | Y*             |
|               | COR AVE | CORYLUS AVELLANA 'BURGUNDY LACE'         | BURGUNDY LACE FILBERT    | 3"       | 18'     | 15'     | 10'-15'   | N   | N           | Y            | Y              | Y              |
|               | COR COR | CORYLUS CORNUTA                          | BEAKED HAZELNUT          | 2"       |         |         | 12' - 15' | N   | N           | Y            | Y              | Y              |
|               | GAR ELL | GARRYA ELLIPTICA                         | COAST SILK TASSEL        |          |         |         |           | X   | N           |              |                |                |
|               | GIN BIL | GINKGO BILOBA                            | GINKGO                   | 3"       |         |         | 12' - 15' | X   | Y           | N            |                |                |
|               | GIN BIL | GINKGO BILOBA 'JADE BUTTERFLY'           | JADE BUTTERFLY GINKGO    | 3"       |         |         | 12' - 15' | X   | Y           | N            |                |                |
|               | GYM DIO | GYMNOCLADUS DIOICUS                      | KENTUCKY COFFEE TREE     | 3"       | 40'-50' | 60'-75' | 30' - 40' | N   | N           | Y            | N              | N              |
|               | LIR TUL | LIRIODENDRON TULIPIFERA                  | TULIP TREE               | 3"       |         |         |           | Y   | N           | N            | N              | N              |

**STATION SITES TREE SCHEDULE (1 OF 2)**

NTS

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01/30/25 | 3:44 PM | JUSLEAMAKER E:\00-PROJECTS\LR STA STANDARDS - 20230302-TAKS 05 STATION CONFIGURATIONS\05-CAD\06-ST UPLOAD FINAL\STD-LPD301.DWG

|              |      |               |     |       |          |  |  |       |  |  |  |  |  |                  |  |
|--------------|------|---------------|-----|-------|----------|--|--|-------|--|--|--|--|--|------------------|--|
| DESIGNED BY: |      |               |     |       |          | <br>SCALE: NTS<br>FILENAME: STD-LPD301.DWG<br>CONTRACT No.: |  |       |  | <b>SOUND TRANSIT STANDARD DRAWINGS LANDSCAPE</b><br><br>TREE SCHEDULE 1 OF 2 |  |  |  | DRAWING No.:     |  |
| DRAWN BY:    |      |               |     |       |          |  |  |       |  |  |  |  |  | STD-LPS301       |  |
| CHECKED BY:  |      |               |     |       |          |  |  |       |  |  |  |  |  | FACILITY ID:     |  |
| APPROVED BY: |      |               |     |       |          |  |  |       |  |  |  |  |  | SHEET No. REV: 0 |  |
|              |      | SUBMITTED BY: |     | DATE: |          | REVIEWED BY:   |  | DATE: |  | 12/2024  |  |  |  |                  |  |
| No.          | DATE | DSN           | CHK | APP   | REVISION |  |  |       |  |  |  |  |  |                  |  |

**GENERAL TREE NOTES:**

1. SEE PLANTING AND IRRIGATION PLANS STD-LPP301, STD-LPP-302, STD-LPP-303, STD-LPP-304, STD-LPP-305 FOR GENERAL LOCATIONS OF TREES AND PLANTING AREAS.
2. ALL TREES IN PLAZA AREAS WITHIN STATION SITES SHALL HAVE BRANCHING 7 FEET MINIMUM ABOVE FINISH GRADE TO MEET CPTED GUIDELINES.
3. TREES WITHIN RAINGARDEN, BIORETENTION, OR PLANTING AREAS WIDER THAN 20 FEET WHERE TREES ARE LOCATED MINIMUM 10 FEET FROM EDGE OF PAVEMENT SHALL HAVE BRANCHING 5 FEET MINIMUM ABOVE FINISH GRADE.
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- \* TREE PLANTING AREA REQUIREMENTS FOR ROOT AREA SHALL BE MET WITHIN OPEN PLANTERS AND SOIL CELL ZONES FOR ALL ON-SITE AND ROW LOCATIONS.

**TREE SCHEDULE**


| QTY | ABBR    | BOTANICAL NAME                        | COMMON NAME                         | MIN SIZE | HEIGHT  | WIDTH | SPACING | ROW | BIKE BUFFER | BIORETENTION | UNDER PLATFORM | UNDER GUIDEWAY |
|-----|---------|---------------------------------------|-------------------------------------|----------|---------|-------|---------|-----|-------------|--------------|----------------|----------------|
|     | LAG IND | LAGERSTROEMIA INDICA                  | CRAPE MYRTLE                        | 2"       |         |       |         | N   | N           | Y            | Y              | Y              |
|     | MAA AMU | MAACKIA AMURENSIS                     | AMUR MAACKIA                        | 2"       |         |       |         | N   | N           | Y            | Y              | Y              |
|     | MAL FUS | MALUS FUSCA                           | PACIFIC CRABAPPLE                   | 2"       |         |       |         | N   | N           | Y            | Y              | Y              |
|     | NYS SYV | NYSSA SYVATICA 'DAVID ODOM'           | AFTERBURNER TUPELO (BLACK GUM)      | 2"       | 35'     | 20'   | 15'-20' | Y   | Y           | N            | Y*             | Y*             |
|     | NYS SYV | NYSSA SYVATICA                        | BLACK TUPELO (BLACK GUM)            | 2"       | 35'     | 20'   | 15'-20' | Y   | Y           | N            | Y*             | Y*             |
|     | NYS SYV | NYSSA SYVATICA 'JFS-RED'              | FIRESTARTER TUPELO (BLACK GUM)      | 2"       | 35'     | 17'   | 12'-15' | Y   | Y           | N            | Y*             | Y*             |
|     | NYS SYV | NYSSA SYVATICA 'NSUHH'                | GREEN GABLE TUPELO (BLACK GUM)      | 2"       | 40'     | 25'   | 15'-25' | Y   | Y           | N            | Y*             | Y*             |
|     | OEM CER | OEMLERIA CERASIFORMIS                 | INDIAN PLUM                         | 2"       |         |       |         | Y   | N           |              |                |                |
|     | PAR PER | PARROTIA PERSICA                      | PERSIAN PARROTIA - IRONWOOD         | 2"       |         |       |         | Y   | Y           |              |                |                |
|     | PAR PER | PARROTIA PERSICA 'CHRISHVAEN1'        | GOLDEN BELLTOWER PARROTIA           | 2"       | 30'     | 12'   | 12'-15' | Y   | Y           | N            | Y*             | Y              |
|     | PAR PER | PARROTIA PERSICA 'RUBY VASE'          | RUBY VASE PARROTIA                  | 2"       | 28'     | 16'   | 12'-15' | Y   | Y           | N            | Y*             | Y              |
|     | PAR PER | PARROTIA PERSICA 'VANESSA'            | VANESSA PARROTIA                    | 2"       | 28'     | 14'   | 12'-15' | Y   | Y           | N            | Y*             | Y              |
|     | PAR PER | PARROTIA PERSICA 'JL Columnar P.A.F.' | PERSIAN SPIRE PARROTIA              | 2"       | 25'     | 10'   | 12'-15' | Y   | Y           | N            | Y*             | Y              |
|     | PHI LEW | PHILADELPHUS LEWISII                  | MOCK ORANGE                         | 2"       |         |       |         | X   | X           |              | Y              | Y              |
|     | PHY OPU | PHYSOCARPUS OPULIFOLIUS               | NINEBARK ('DART'S GOLD ACCEPTABLE') | 2"       |         |       |         | X   | X           |              |                |                |
|     | QUE BIC | QUERCUS BICOLOR 'BONNIE AND MIKE'     | BEACON OAK                          | 3"       | 40'     | 15'   | 15'-20' | Y   | N           | Y            | N              | N              |
|     | QUE BIC | QUERCUS BICOLOR 'JFS-KW12'            | AMERICAN DREAM OAK                  | 3"       | 50'     | 40'   | 25'-35' | Y*  | N           | Y            | N              | N              |
|     | QUE COC | QUERCUS COCCINEA                      | SCARLET OAK                         | 3"       | 50'     | 40'   | 25'-35' | Y*  | N           | N            | N              | N              |
|     | QUE FRA | QUERCUS FRAINETTO 'SCHMIDT'           | FOREST GREEN OAK                    | 3"       | 50'     | 30'   | 25'-35' | Y   | N           | N            | N              | N              |
|     | QUE MAC | QUERCUS MACROCARPA 'JFS-KW3'          | URBAN PINNACLE OAK                  | 3"       | 55'     | 25'   | 25'-35' | Y   | N           | N            | N              | N              |
|     | QUE MAC | QUERCUS MACROCARPA                    | BUR OAK                             | 3"       | 55'     | 45'   | 25'-35' | Y*  | N           | N            | N              | N              |
|     | QUE PHE | QUERCUS PHELLOS                       | WILLOW OAK                          | 3"       | 50'     | 35'   | 25'-35' | Y   | N           | Y            | N              | N              |
|     | QUE ROB | QUERCUS ROBUR 'FASTIGIATA'            | SKYROCKET OAK                       | 3"       | 45'     | 15'   | 15'-20' | Y   | N           | N            | N              | N              |
|     | QUE RUB | QUERCUS RUBRA                         | NORTHERN RED OAK                    | 3"       | 50'     | 45'   | 25'-35' | Y*  | N           | N            | N              | N              |
|     | QUE GAR | QUERCUS GARRYANA                      | OREGON WHITE OAK, GARRY OAK         | 3"       |         |       |         | Y   | N           | Y            |                |                |
|     | STE PSE | STEWARTIA PSEUDOCAMILLIA              | JAPANESE STEWARTIA                  | 3"       |         |       |         | Y   | N           | N            | Y              | Y              |
|     | STY JAP | STYRAX JAPONICA                       | JAPANESE SNOWBELL                   | 2"       |         |       |         | Y   | N           | N            | N              | Y              |
|     | TIL COR | TILLIA CORDATA 'DEGROOT'              | DEGROOT LITTLE LEAF LINDEN          | 3"       |         |       |         | Y   | N           | N            | N              | Y              |
|     | ULM DAV | ULMUS DAVIDIANA 'JFS-BIEBERICH'       | EMERALD SUNSHINE ELM                | 3"       |         |       | 15'-25' | Y   | Y           | N            | N              | Y              |
|     | ZEL SER | ZELKOVA SERRATA                       | JAPANESE ZELKOVA                    | 3"       | 40'-75' |       |         | Y   | N           | N            | N              | N              |
|     | ZEL SER | ZELKOVA SERRATA 'GREEN VASE'          | GREEN VASE ZELKOVA                  | 3"       |         |       |         | Y   | Y           | N            | N              | N              |
|     | ZEL SER | ZELKOVA SERRATA 'VILLAGE GREEN'       | VILLAGE GREEN ZELKOVA               | 3"       |         |       |         | Y   | N           | N            | N              | N              |

**STATION SITES TREE SCHEDULE (2 OF 2)**

NTS

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01/30/25 | 3:45 PM | JSLEAMAKER E:\00-PROJECTS\ST LR STA STANDARDS - 20230302-TAKS 05 STATION CONFIGURATIONS\05-CAD\06-ST UPLOAD FINAL\STD-L-PD302.DWG

|     |      |     |     |     |              |               |  |       |              |  |  |         |                                   |
|-----|------|-----|-----|-----|--------------|---------------|--|-------|--------------|--|--|---------|-----------------------------------|
|     |      |     |     |     | DESIGNED BY: |               |  |       |              | <br>SCALE: NTS<br>FILENAME: STD-LPD302.DWG<br>CONTRACT No.: | <b>SOUND TRANSIT<br/>STANDARD DRAWINGS<br/>LANDSCAPE</b> |         | DRAWING No.:<br><b>STD-LPS302</b> |
|     |      |     |     |     | DRAWN BY:    |               |  |       |              |  | FACILITY ID:   |         |                                   |
|     |      |     |     |     | CHECKED BY:  |               |  |       |              |  | SHEET No.: REV:  |         |                                   |
|     |      |     |     |     | APPROVED BY: |               |  |       |              |  | 0  |         |                                   |
| No. | DATE | DSN | CHK | APP | REVISION     | SUBMITTED BY: |  | DATE: | REVIEWED BY: |  | DATE:  | 12/2024 |                                   |

### STATION SITES UNDERSTORY PLANT SCHEDULE

| QTY                                       | ABBR    | BOTANICAL NAME                      | COMMON NAME                 | MIN SIZE | HEIGHT | WIDTH   | SPACING      |
|---|---------|-------------------------------------|-----------------------------|----------|--------|---------|--------------|
| <b>SHRUBS, PERRENIALS, FERNS, GRASSES</b> |         |                                     |                             |          |        |         |              |
|   | COR SAN | CORNUS SANGUINEA 'CATO' **          | ARCTIC SUN RED TWIG DOGWOOD | #3       |        |         | AS SHOWN     |
|   | COR STO | CORNUS STOLONIFERA **               | RED OSIER DOGWOOD           | #3       |        |         | AS SHOWN     |
|   | COR KEL | CORNUS KELSEYI**                    | DWARF REDTWIG DOGWOOD       | #3       | 12"    | 4 CANES | 24" OC       |
|   | COR COR | CORYLUS CORNUTA                     | WESTERN HAZELNUT            | #3       |        |         | AS SHOWN     |
|   | EUO ALA | EUONYMUS ALATUS 'LITTLE MOSES'      | DWARF BURNING BUSH          | #3       | 15"    | 15"     | 18"-24" OC   |
|   | EUO JAP | EUONYMUS JAPANICUS 'MICROPHYLLUS'   | BOX-LEAF EUONYMOUS          | #3       |        |         | 24" - 30" OC |
|   | GAU SHA | GAULTHERIA SHALLON                  | SALAL                       | #3       | 6"-12" | 12"     | 30" OC       |
|   | HEB SPP | HEBES SPP.                          | HEBES                       | #3       | 12"    | 15"     | 30"OC        |
|   | LON PIL | LONICERA PILEATA                    | PRIVET HONEYSUCKLE          | #3       |        |         | 24" - 30" OC |
|   | MAH AQU | MAHONIA AQUIFOLIUM                  | TALL OREGONGRAPE            | #3       |        |         | 18"-24" OC   |
|   | MAH NER | MAHONIA NERVOSA                     | LOW OREGONGRAPE             | #3       |        |         | 18"-24" OC   |
|   | MAH REP | MAHONIA REPENS                      | CREEPING MAHONIA            | #3       |        |         | 18"-24" OC   |
|   | MYR CAL | MYRICA CALIFORNICA                  | CALIFORNIA WAX MYRTLE       | #3       |        |         | AS SHOWN     |
|   | MYR PEN | MYRICA PENNSYLVANICA                | NORTHERN BAYBERRY           | #3       |        |         | AS SHOWN     |
|   | PAX MYR | PAXISTIMA MYRSINITES                | FALSEBOX                    | #3       |        |         | 18"-24" OC   |
|   | PHI COR | PHILADELPHUS CORONARIUS             | MOCK ORANGE                 | #3       |        |         | 24"-36" OC   |
|   | POT SPP | POTENTILLA SPP.                     | BUTTERCUP SHRUB             | #3       |        |         | 18"-24" OC   |
|   | PRU LAU | PRUNUS LAUROCERASUS 'MOUNT VERNON'  | MOUNT VERNON LAUREL         | #3       | 12"    | 18"     | 24" - 30" OC |
|   | RHU ARO | RHUS AROMATICA 'GRO-LOW'            | FRAGRANT SUMAC              | #3       |        |         | 24" - 30" OC |
|   | RIB SAN | RIBES SANGUINIM                     | RED FLOWERING CURRENT       | #3       |        |         | AS SHOWN     |
|   | SAR HUM | SARCOCOCCA HOOKERIANA VAR. HUMILIS  | DWARF SWEETBOX              | #3       | 12"    | 12"     | 12"OC        |
|   | SPI BET | SPIRAEA BETULIFOLIA 'TOR' **        | WHITE SPIREA                | #3       |        |         | 18"-24" OC   |
|   | SYM ALB | SYMPHORICARPOS ALBUS                | COMMON SNOWBERRY            | #3       |        |         | AS SHOWN     |
|   | OPH JAP | OPHIOPOGON JAPONICUS                | MONDO GRASS                 | #2       |        |         | 12"-18" OC   |
|   | OPH PLA | OPHIOPOGON PLANISCAPUS 'NIGRESCENS' | BLACK MONDO GRASS           | #2       |        |         | 12"-18" OC   |
|   | PAN VIR | PANICUM VIRGATUM                    | SWITCH GRASS                | #3       |        |         | 24" - 30" OC |
|   | PEN ALO | PENNISETUM ALOPECUROIDES            | DWARF FOUNTAIN GRASS        | #3       |        |         | 24" - 30" OC |
|   | PEN SET | PENNISETUM SETACEUM                 | FOUNTAIN GRASS              | #3       |        |         | 24" - 30" OC |
|   | ARC UVA | ARCTOSTAPHYLOS UVA-URSI             | KINNIKINNICK                | #1       |        |         | 18" - 24" OC |
|   | BLE SPI | BLECHNUM SPICANT                    | DEER FERN                   | #2       |        |         | 18"-24" OC   |
|   | DRY EXP | DRYOPTERIS EXPANSA                  | SPINY WOOD FERN             | #3       |        |         | 18"-24" OC   |
|   | DRY FIL | DRYOPTERIS FILIX-MAS                | MALE FERN                   | #3       |        |         | 18"-24" OC   |
|   | GYM DIS | GYMNOCARPIUM DISJUNCTUM             | COMMON OAK FERN             | #3       |        |         | 18"-24" OC   |
|   | POL MUN | POLYSTICHUM MUNITUM                 | SWORD FERN                  | #3       | 12"    | 12"     | 24"-36" OC   |
|   | POL POL | POLYSTICHUM POLYBLEPHARUM           | JAPANESE TASSEL FERN        | #3       |        |         | 18"-24" OC   |

### STATION SITES PLANT SCHEDULE (1 OF 2)

01

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### STATION SITES UNDERSTORY PLANT SCHEDULE

| QTY                 | ABBR    | BOTANICAL NAME                              | COMMON NAME             | MIN SIZE | HEIGHT | WIDTH | SPACING    |
|---------------------|---------|---|-------------------------|----------|--------|-------|------------|
| <b>GROUNDCOVERS</b> |         |   |                         |          |        |       |            |
|                     | SED DIV | SEDUM DIVERGENS                             | SPREADING STONECROP     | #1       |        |       | 12"-18" OC |
|                     | SED ORE | SEDUM OREGANUM                              | BROADLEAF STONECROP     | #1       |        |       | 12"-18" OC |
|                     | MIS SIN | MISCANTHUS SINENSIS                         | MAIDEN GRASS            | #2       | 18"    | 12"   | 30"OC      |
|                     | ASA CAU | ASARUM CAUDATUM                             | WESTERN WILD GINGER     | #1       |        |       | 18"-24" OC |
|                     | COR UNA | CORNUS UNALASHKENSIS                        | BUNCHBERRY              | #1       |        |       | 18"-24" OC |
|                     | EPI PER | EPIMEDIUM PERRALCHICUM                      | HYBRID EPIMEDIUM        | #1       |        | 12"   | 18"-24" OC |
|                     | FRA CHI | FRAGARIA CHILOENSIS                         | BEACH STRAWBERRY        | 4"       |        |       | 18"-24" OC |
|                     | PAC TER | PACHYSANDRA TERMINALIS                      | JAPANESE SPURGE         | #1       |        |       | 18"-24" OC |
|                     | VIN MIN | VINCA MINOR 'ATROPURPUREA'                  | ATROPURPUREA PERIWINKLE | #1       |        |       | 18"-24" OC |
|                     | ATH FIL | ATHYRIUM FILIX-FEMINA                       | LADY FERN               | #3       | 12"    |       | 18"-24" OC |
| <b>VINES</b>        |         |   |                         |          |        |       |            |
|                     | PAR HEN | PARTHENOCISSUS HENRYANA                     | SILVERVEIN CREEPER      | #3       |        |       | AS SHOWN   |
|                     | PAR QUI | PARTHENOCISSUS QUINQUEFOLIA                 | VIRGINIA CREEPER        | #3       |        |       | AS SHOWN   |
|                     | PAR     | PARTHENOCISSUS TRICUSPIDATA (AND 'VETCHII') | BOSTON IVY              | #3       |        |       | AS SHOWN   |

### STATION SITES PLANT SCHEDULE (2 OF 2)

02

NTS

#### GENERAL UNDERSTORY PLANTING NOTES:

- SEE PLANTING AND IRRIGATION PLANS STD-LPP301, STD-LPP-302, STD-LPP-303, STD-LPP-304, STD-LPP-305 FOR GENERAL LOCATIONS OF TREES AND PLANTING AREAS.
- ALL UNDERSTORY PLANTING IN PLAZA AREAS WITHIN STATION SITES SHALL BE MAXIMUM 36" ABOVE FINISH GRADE TO MEET CPTED GUIDELINES.
- UNDERSTORY PLANTS WITHIN RAINGARDEN, BIORETENTION, OR PLANTING AREAS WIDER THAN 20 FEET SHALL BE MAXIMUM 60" ABOVE FINISH GRADE WITH NO VEGETATION ABOVE 36" HEIGHT ALONG EDGES OF PEDESTRIAN WALKWAYS.
- UNDERSTORY PLANTS WITHIN THE ROW SHALL FOLLOW THE SIZE AND SPACING REQUIREMENTS OF THE AHJ AS MINIMUM UNLESS OTHERWISE NOTED.

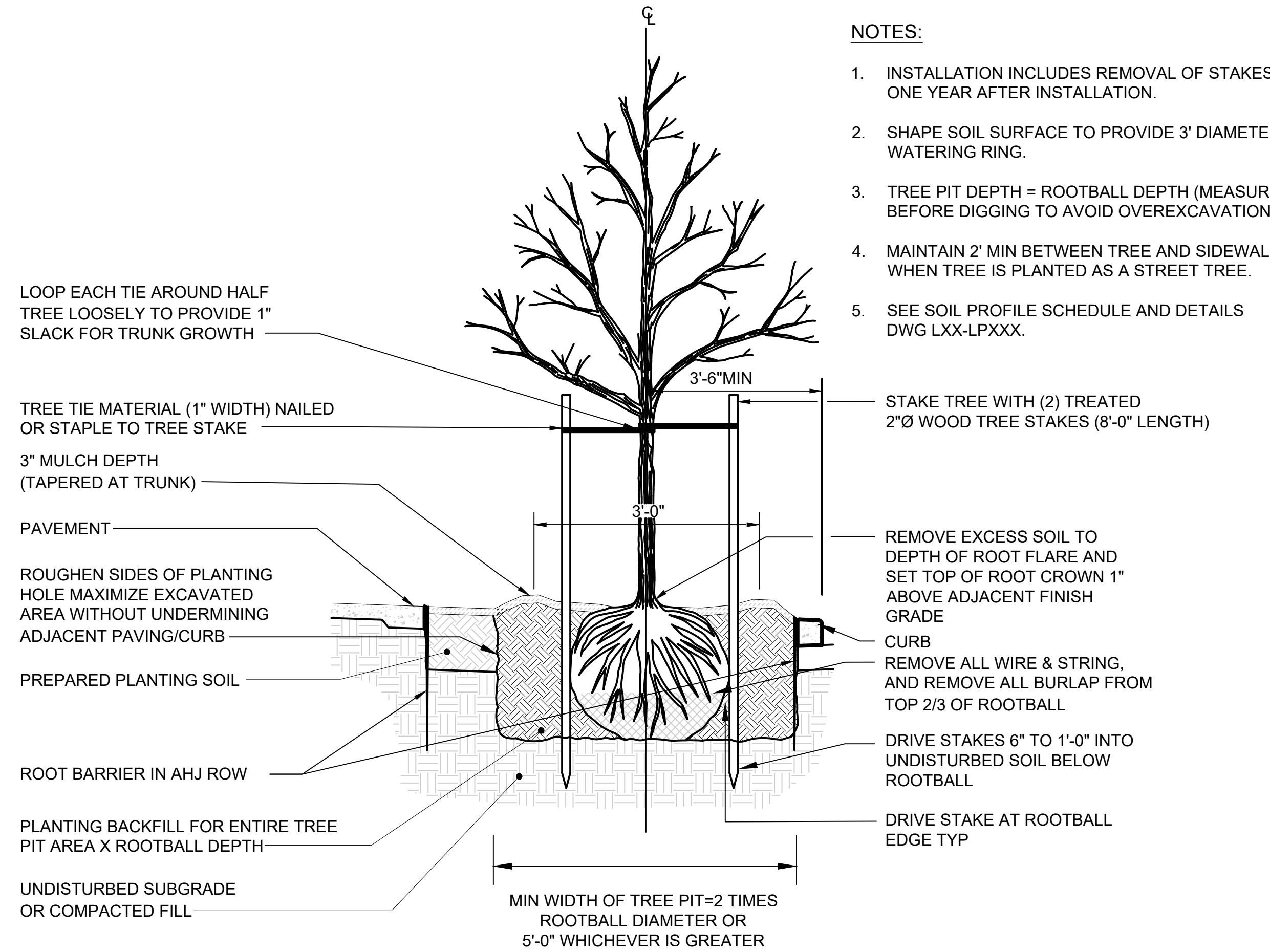
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|                                 |      |     |     |     | DESIGNED BY: |  |  |  |               |  |       |  |              |  | <b>SOUND TRANSIT</b><br>STANDARD DRAWINGS<br>LANDSCAPE<br><br>PLANT SCHEDULES |  | DRAWING No.: |  |
|                                 |      |     |     |     | DRAWN BY:    |  |  |  |               |  |       |  |              |  |   |  | STD-LPS303   |  |
|                                 |      |     |     |     | CHECKED BY:  |  |  |  |               |  |       |  |              |  |   |  | FACILITY ID: |  |
|                                 |      |     |     |     | APPROVED BY: |  |  |  | SUBMITTED BY: |  | DATE: |  | REVIEWED BY: |  |   |  | DATE:        |  |
| 0   12/2024         NEW DRAWING |      |     |     |     |              |  |  |  |               |  |       |  |              |  |   |  | 0            |  |
| No.                             | DATE | DSN | CHK | APP | REVISION     |  |  |  |               |  |       |  |              |  |   |  |              |  |

LINE IS AT FULL SCALE



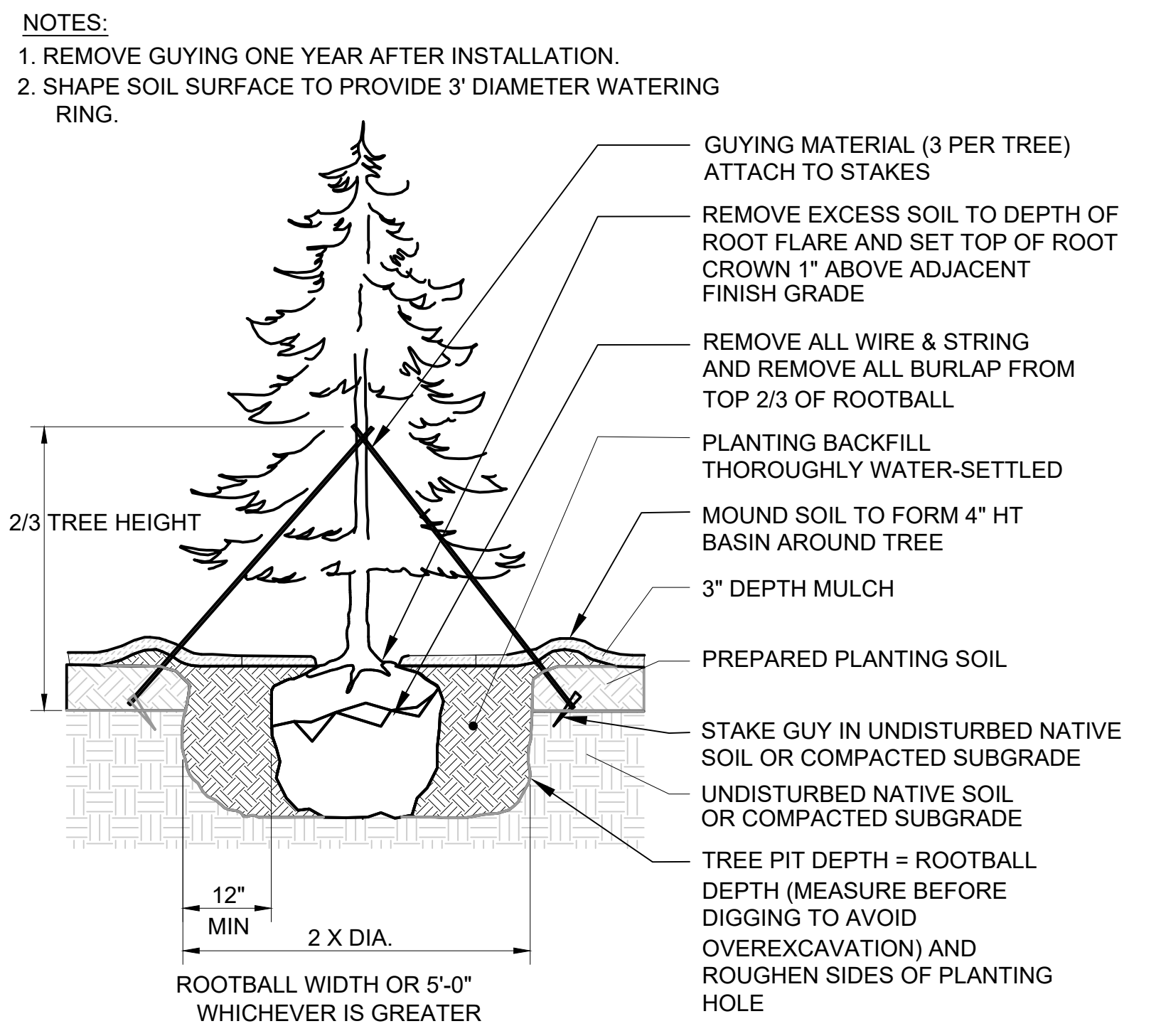
SCALE: NTS  
 FILENAME: STD-LPD303.DWG  
 CONTRACT No.:

DATE: 12/2024



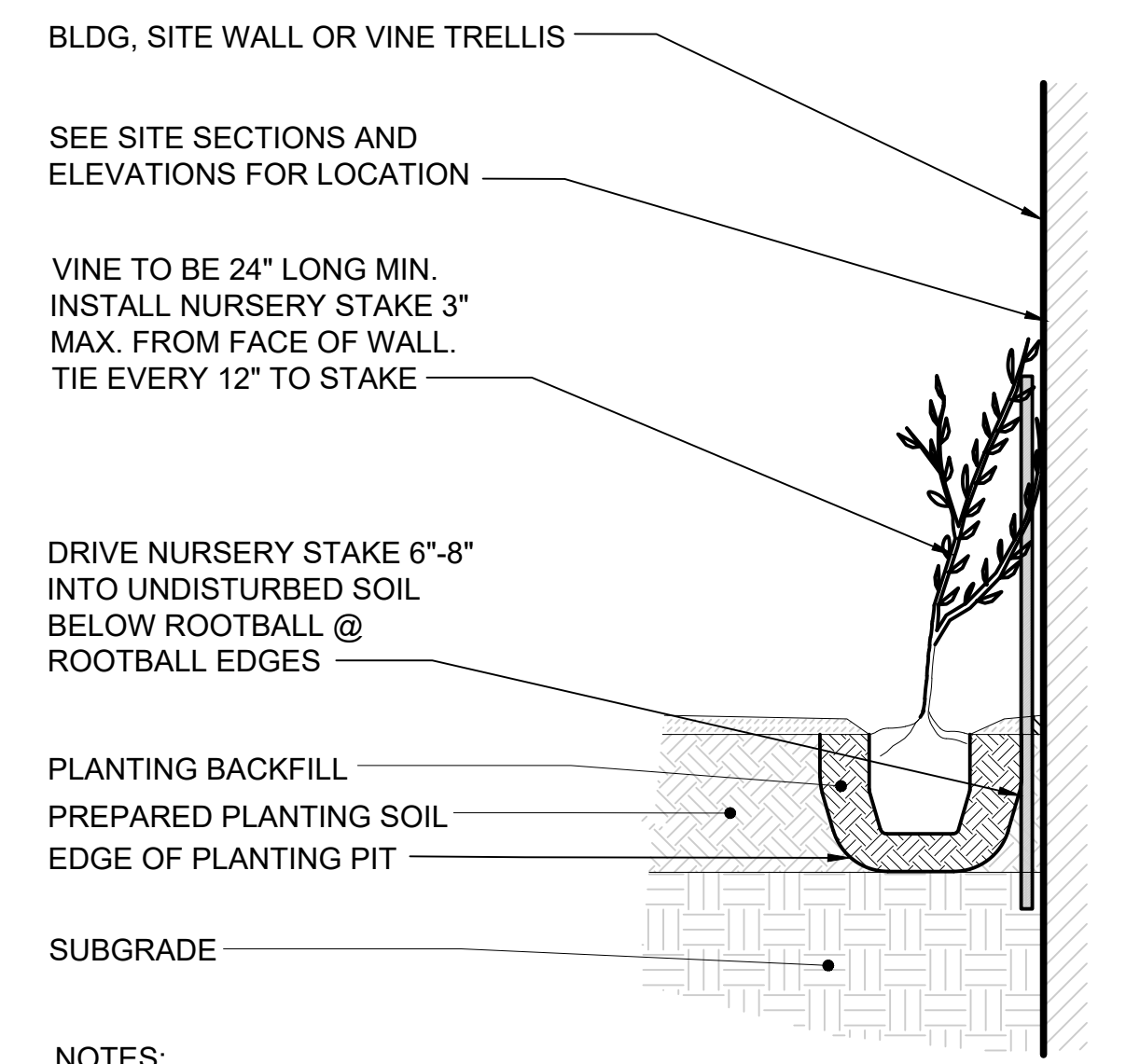
- NOTES:**
1. INSTALLATION INCLUDES REMOVAL OF STAKES ONE YEAR AFTER INSTALLATION.
  2. SHAPE SOIL SURFACE TO PROVIDE 3' DIAMETER WATERING RING.
  3. TREE PIT DEPTH = ROOTBALL DEPTH (MEASURE BEFORE DIGGING TO AVOID OVEREXCAVATION).
  4. MAINTAIN 2' MIN BETWEEN TREE AND SIDEWALK WHEN TREE IS PLANTED AS A STREET TREE.
  5. SEE SOIL PROFILE SCHEDULE AND DETAILS DWG LXX-LPXXX.

**DECIDUOUS TREE PLANTING** 01  
NTS



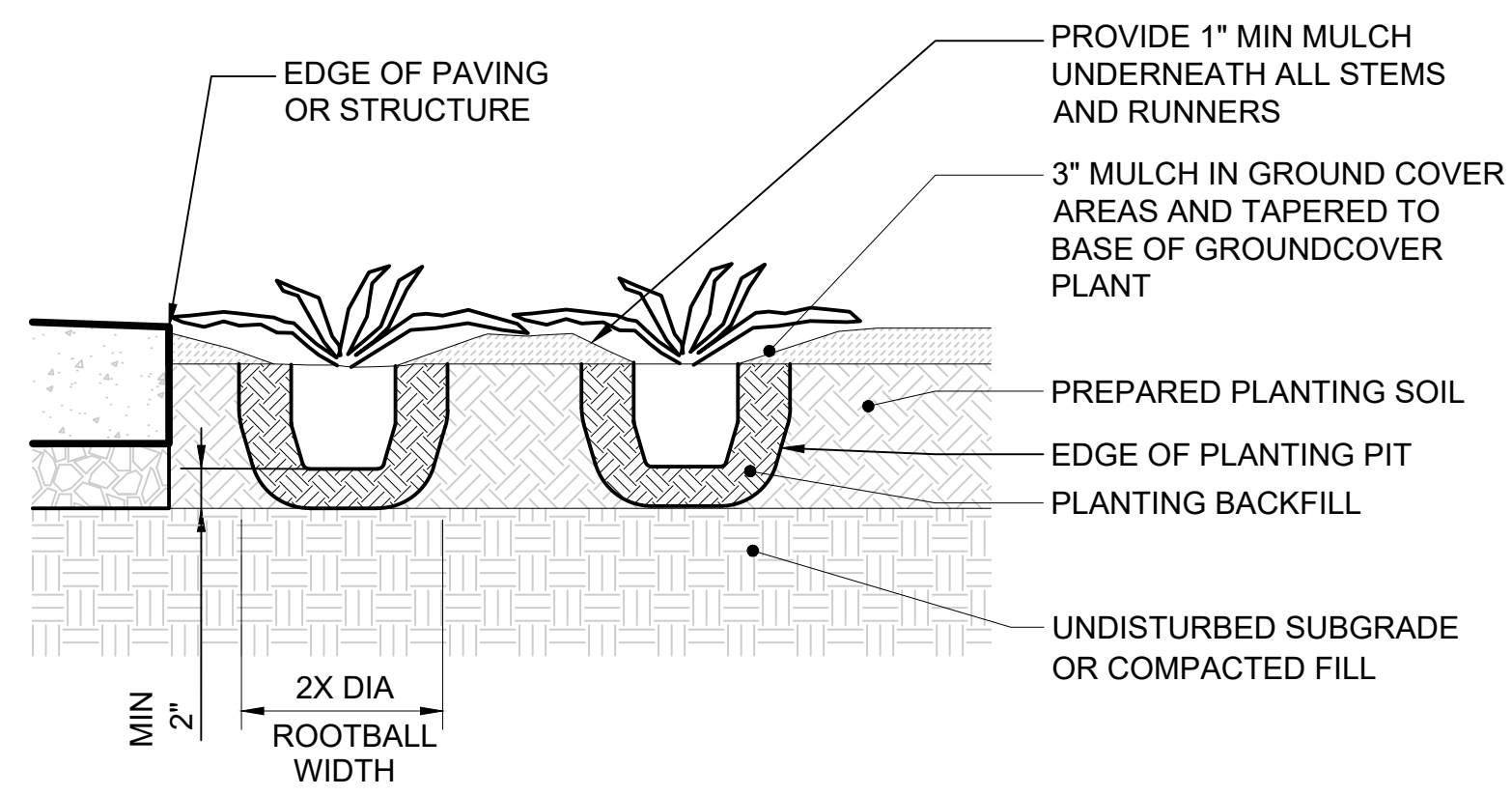
- NOTES:**
1. REMOVE GUYING ONE YEAR AFTER INSTALLATION.
  2. SHAPE SOIL SURFACE TO PROVIDE 3' DIAMETER WATERING RING.

**CONIFEROUS TREE PLANTING** 02  
NTS

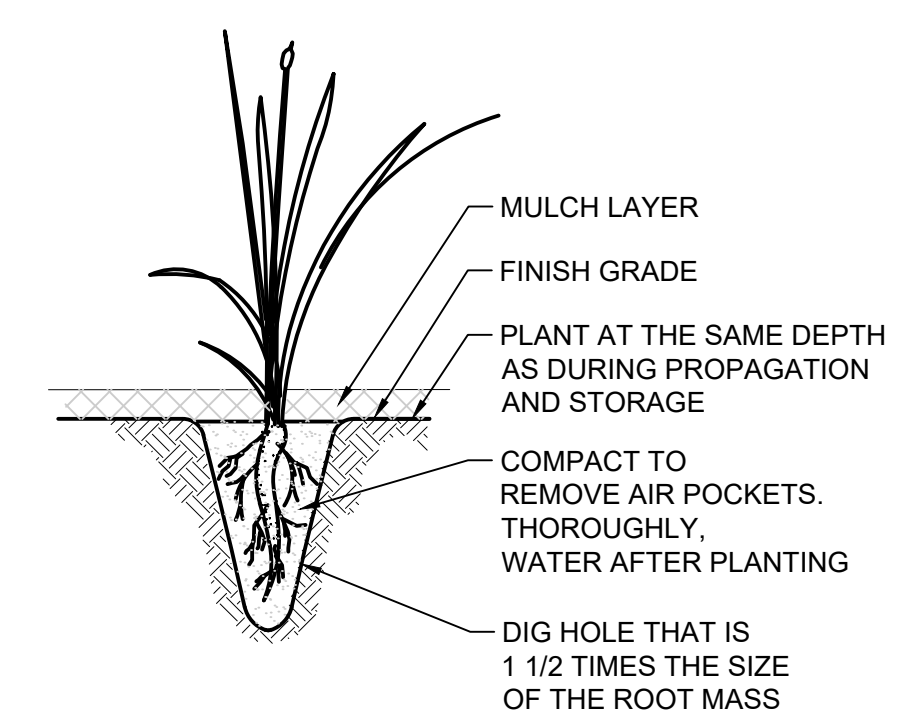


- NOTES:**
1. ENSURE PLANT ROOT FLARE DOES NOT SETTLE BELOW TOP OF SOIL.
  2. SEE SOIL PROFILE SCHEDULE AND DETAILS DWG LXX-LPXXX.

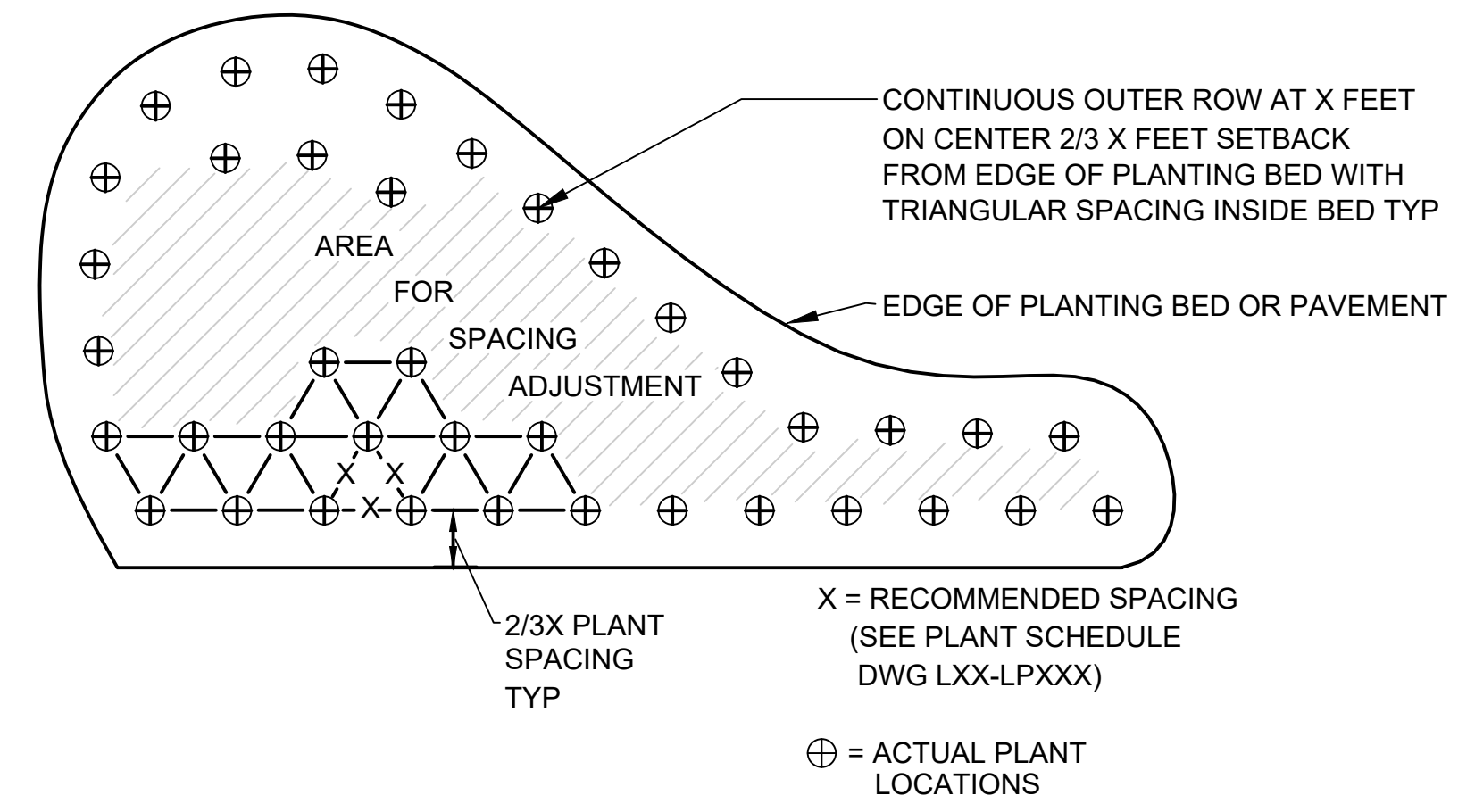
**VINE PLANTING** 03  
NTS



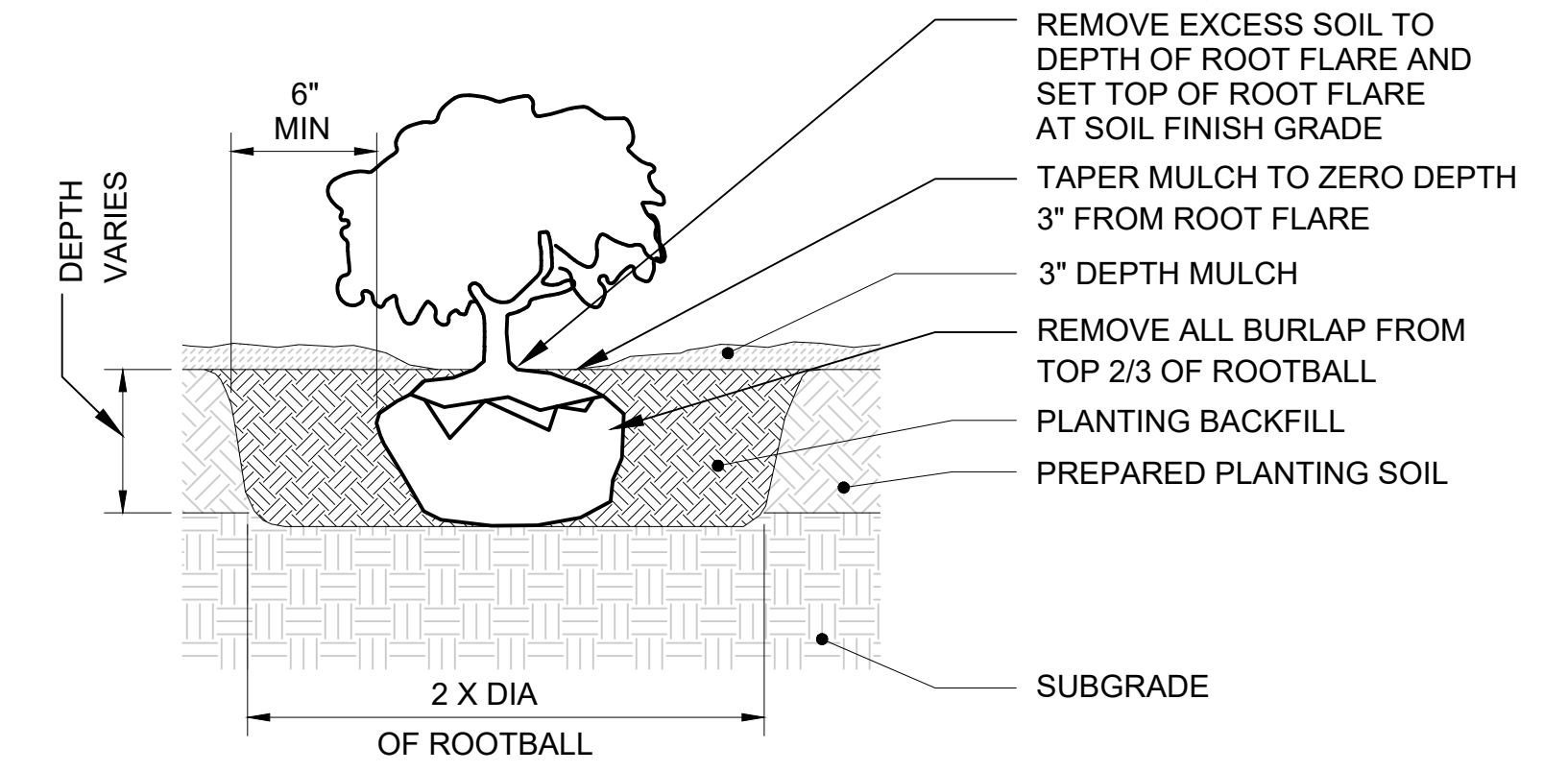
**GROUNDCOVER PLANTING** 04  
NTS



**PLUG PLANTING** 05  
NTS



**PLANT SPACING** 06  
NTS



- NOTES:**
1. EXCAVATE PIT TO DEPTH OF ROOTBALL.
  2. ENSURE SHRUB ROOT FLARE DOES NOT SETTLE BELOW TOP OF SOIL.
  3. SEE SOIL PROFILE SCHEDULE AND DETAILS DWG LXX-LPXXX.

**SHRUB PLANTING** 07  
NTS

01/30/25 | 3:44 PM | JSLEAMAKER E:\00-PROJECTS\LR STA STANDARDS - 20230302-TAKS 05 STATION CONFIGURATIONS\05-CAD\06-ST UPLOAD FINAL\STD-LPD304.DWG

|              |  |
|--------------|--|
| DESIGNED BY: |  |
| DRAWN BY:    |  |
| CHECKED BY:  |  |
| APPROVED BY: |  |

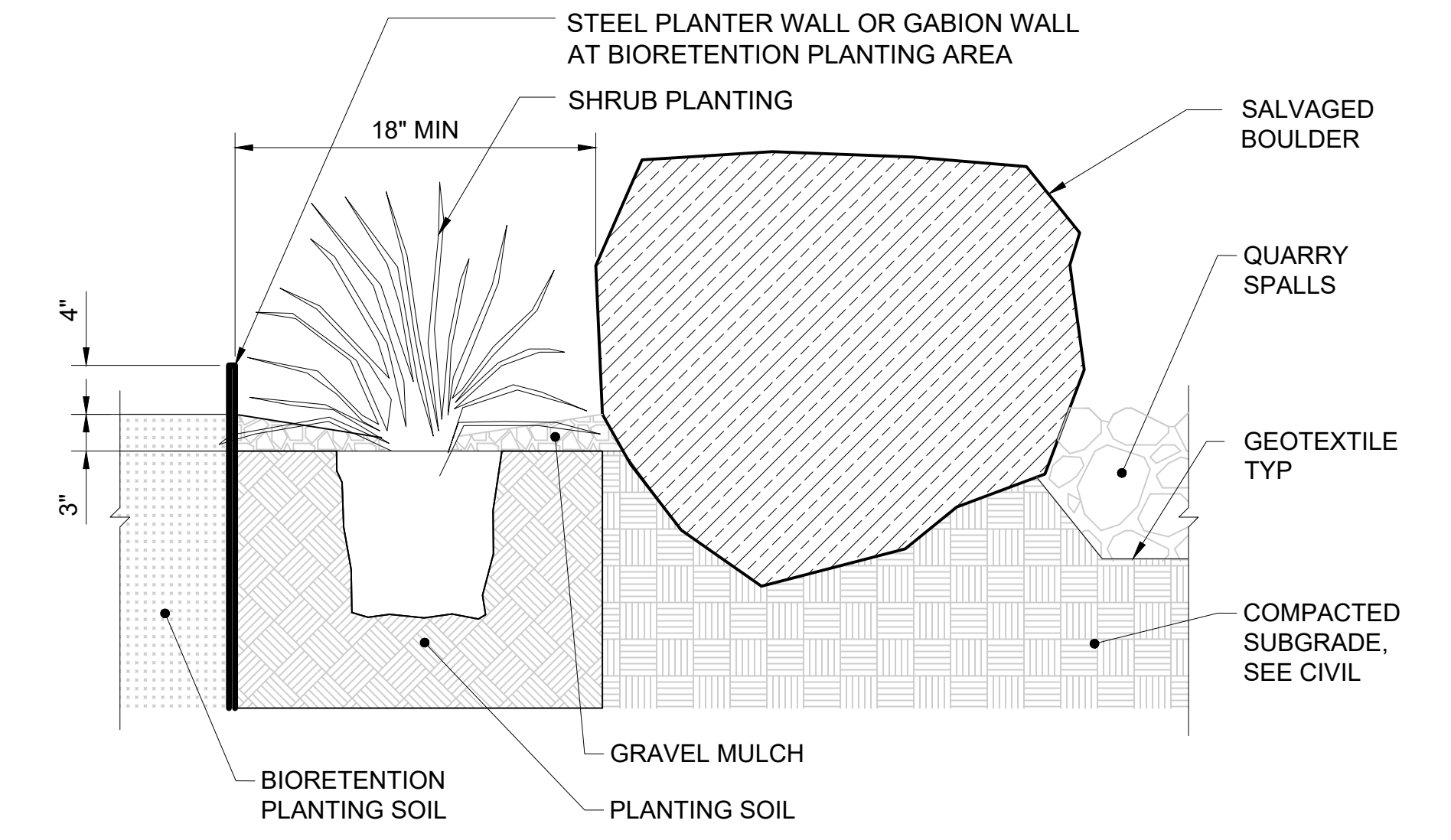
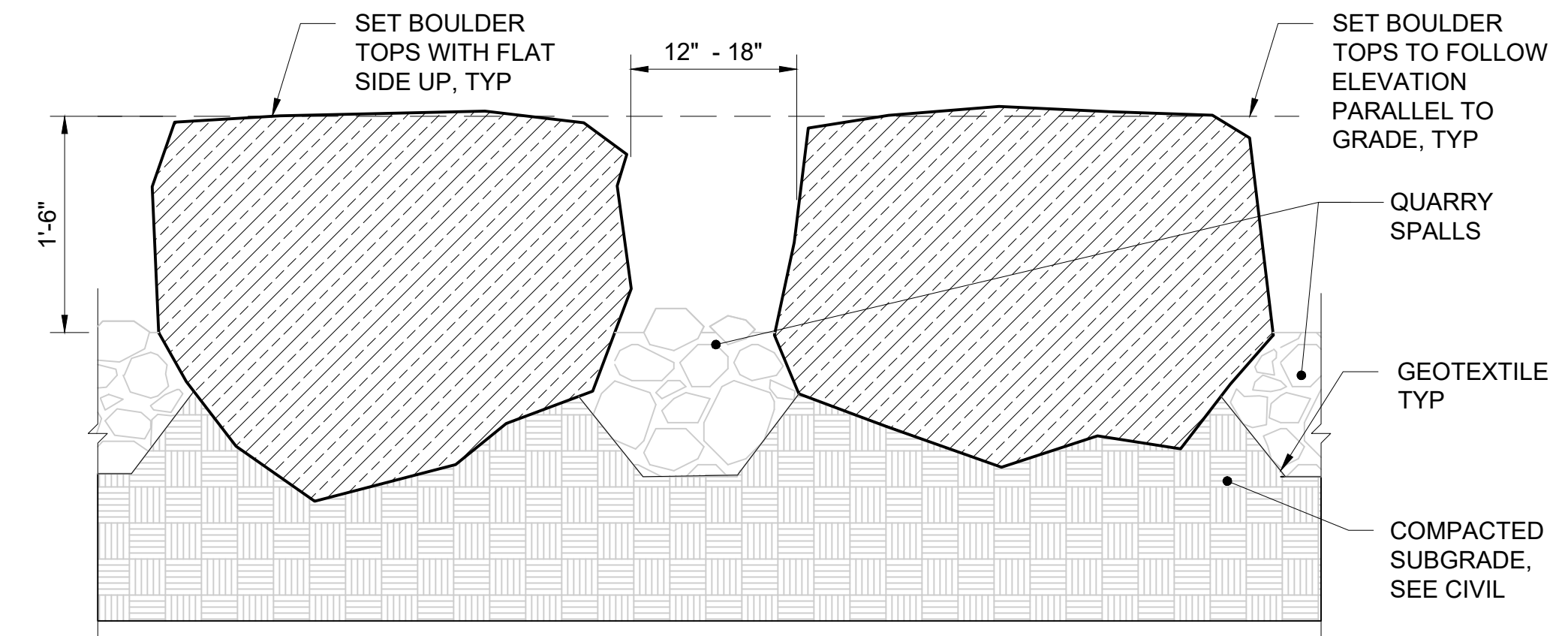
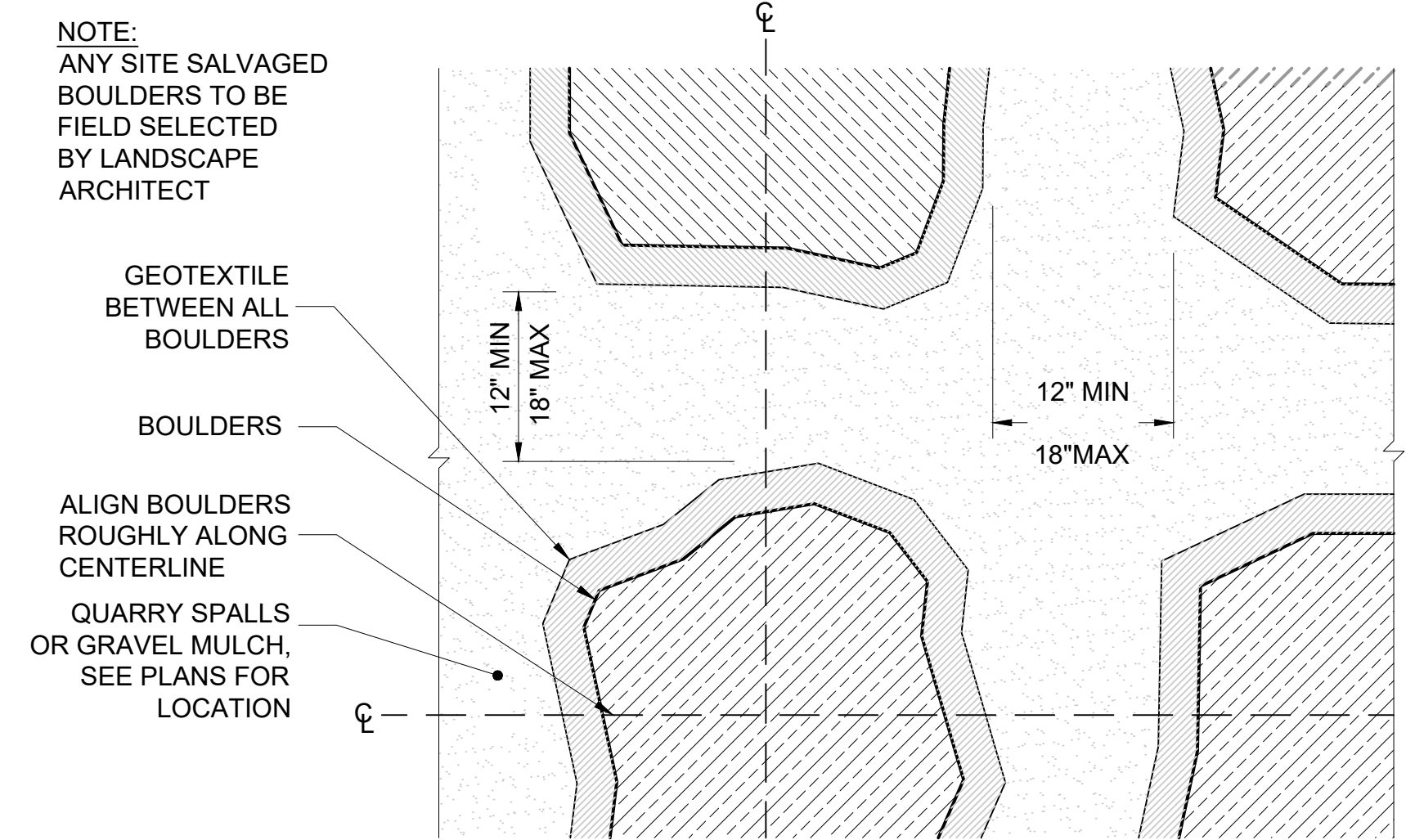
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| DATE:        |  |
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|-------|--|
| DATE: |  |
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|               |                |
|---------------|----------------|
| SCALE:        | NTS            |
| FILENAME:     | STD-LPD304.DWG |
| CONTRACT No.: |                |

|  |  |
|--|--|
| <b>SOUND TRANSIT<br/>STANDARD DRAWINGS<br/>LANDSCAPE</b> |  |
| TREE AND PLANTING DETAILS 1 OF 2                         |  |

|              |                   |
|--------------|-------------------|
| DRAWING No.: | <b>STD-LPD304</b> |
| FACILITY ID: |                   |
| SHEET No.:   | REV:              |
|              | 0                 |



**LANDSCAPE BOULDER DETAILS**  
NTS

01


01/30/25 | 3:44 PM | JSL:EMAKER  
E:\00-PROJECTS\LR STA STANDARDS - 20230302-TAKS 05 STATION CONFIGURATIONS\05-CAD\06-ST UPLOAD FINAL\STD-L-LPD305.DWG

| No. | DATE    | DSN | CHK | APP | REVISION    |
|-----|---------|-----|-----|-----|-------------|
| 0   | 12/2024 |     |     |     | NEW DRAWING |

|              |  |
|--------------|--|
| DESIGNED BY: |  |
| DRAWN BY:    |  |
| CHECKED BY:  |  |
| APPROVED BY: |  |

|               |       |              |       |
|---------------|-------|--------------|-------|
| SUBMITTED BY: | DATE: | REVIEWED BY: | DATE: |
|---------------|-------|--------------|-------|

LINE IS 1" AT FULL SCALE



SCALE: AS NOTED  
FILENAME: STD-LPD305.DWG  
CONTRACT No.:

**SOUND TRANSIT  
STANDARD DRAWINGS  
LANDSCAPE**

TREE AND PLANTING DETAILS 2 OF 2

|              |                   |
|--------------|-------------------|
| DRAWING No.: | <b>STD-LPD305</b> |
| FACILITY ID: |                   |
| SHEET No.:   | REV: 0            |



[TREE NAMING, SIZE, SPECIES, AND LOCATION ARE EXAMPLES AND SHALL BE REPLACED WITH SITE SPECIFIC CONTENT]

| TREES TO BE REMOVED IN (XXXX) CONTRACT |      |                             |                 |                     |
|--|------|-----------------------------|-----------------|---------------------|
| TREE ID NUMBER                         | SH   | SCIENTIFIC NAME             | COMMON NAME     | LOCATION            |
| ST-532                                 | 6.2" | QUERCUS PALUSTRIS           | PIN OAK         | CITY OF SEATTLE ROW |
| ST-533                                 | 6.2" | QUERCUS PALUSTRIS           | PIN OAK         | CITY OF SEATTLE ROW |
| ST-534                                 | 6.2" | QUERCUS PALUSTRIS           | PIN OAK         | CITY OF SEATTLE ROW |
| ST-535                                 | 6.2" | QUERCUS PALUSTRIS           | PIN OAK         | CITY OF SEATTLE ROW |
| T-611                                  | 7.7" | CARPINUS SPP.               | HORNBEAM        | PRIVATE PROPERTY    |
| T-612                                  | 6.6" | CARPINUS SPP.               | HORNBEAM        | PRIVATE PROPERTY    |
| T-613                                  | 9.0" | FRAXINUS OXYCARPA 'RAYWOOD' | RAYWOOD ASH     | PRIVATE PROPERTY    |
| T-614                                  | 8.4" | FRAXINUS OXYCARPA 'RAYWOOD' | RAYWOOD ASH     | PRIVATE PROPERTY    |
| T-615                                  | 7.7" | FRAXINUS OXYCARPA 'RAYWOOD' | RAYWOOD ASH     | PRIVATE PROPERTY    |
| T-616                                  | 9.3" | FRAXINUS OXYCARPA 'RAYWOOD' | RAYWOOD ASH     | PRIVATE PROPERTY    |
| T-618                                  | 6.4" | CARPINUS SPP.               | HORNBEAM        | PRIVATE PROPERTY    |
| T-621                                  | 8.3" | CARPINUS SPP.               | HORNBEAM        | PRIVATE PROPERTY    |
| T-622                                  | 6.1" | CARPINUS SPP.               | HORNBEAM        | PRIVATE PROPERTY    |
| T-623                                  | 7.8" | TILIA AMERICANA             | AMERICAN LINDEN | PRIVATE PROPERTY    |
| T-625                                  | 9.8" | PYRUS CALLERYANA            | CALLERY PEAR    | PRIVATE PROPERTY    |
| T-627                                  | 8.5" | PYRUS CALLERYANA            | CALLERY PEAR    | PRIVATE PROPERTY    |

**NOTES:**

- REFER TO DRAWINGS FOR TREE LOCATIONS.
- SPECIES IDENTIFICATION AND STANDARD HEIGHT (SH) SIZES SHALL BE FIELD VERIFIED IF SITE OBSERVATIONS DIFFER FROM SURVEY INFORMATION.
- TREES IN PROJECT AREA THAT SHALL BE REMOVED BY EARLY WORKS CONTRACTS ARE NOT LISTED.

| TREES TO BE PROTECTED IN (XXXX) CONTRACT |      |                             |                 |                     |
|--|------|-----------------------------|-----------------|---------------------|
| TREE ID NUMBER                           | SH   | SCIENTIFIC NAME             | COMMON NAME     | LOCATION            |
| ST-532                                   | 6.2" | QUERCUS PALUSTRIS           | PIN OAK         | CITY OF SEATTLE ROW |
| ST-533                                   | 6.2" | QUERCUS PALUSTRIS           | PIN OAK         | CITY OF SEATTLE ROW |
| ST-534                                   | 6.2" | QUERCUS PALUSTRIS           | PIN OAK         | CITY OF SEATTLE ROW |
| ST-535                                   | 6.2" | QUERCUS PALUSTRIS           | PIN OAK         | CITY OF SEATTLE ROW |
| T-611                                    | 7.7" | CARPINUS SPP.               | HORNBEAM        | PRIVATE PROPERTY    |
| T-612                                    | 6.6" | CARPINUS SPP.               | HORNBEAM        | PRIVATE PROPERTY    |
| T-613                                    | 9.0" | FRAXINUS OXYCARPA 'RAYWOOD' | RAYWOOD ASH     | PRIVATE PROPERTY    |
| T-614                                    | 8.4" | FRAXINUS OXYCARPA 'RAYWOOD' | RAYWOOD ASH     | PRIVATE PROPERTY    |
| T-615                                    | 7.7" | FRAXINUS OXYCARPA 'RAYWOOD' | RAYWOOD ASH     | PRIVATE PROPERTY    |
| T-616                                    | 9.3" | FRAXINUS OXYCARPA 'RAYWOOD' | RAYWOOD ASH     | PRIVATE PROPERTY    |
| T-618                                    | 6.4" | CARPINUS SPP.               | HORNBEAM        | PRIVATE PROPERTY    |
| T-621                                    | 8.3" | CARPINUS SPP.               | HORNBEAM        | PRIVATE PROPERTY    |
| T-622                                    | 6.1" | CARPINUS SPP.               | HORNBEAM        | PRIVATE PROPERTY    |
| T-623                                    | 7.8" | TILIA AMERICANA             | AMERICAN LINDEN | PRIVATE PROPERTY    |
| T-625                                    | 9.8" | PYRUS CALLERYANA            | CALLERY PEAR    | PRIVATE PROPERTY    |
| T-627                                    | 8.5" | PYRUS CALLERYANA            | CALLERY PEAR    | PRIVATE PROPERTY    |

|     |         |     |     |     |              |  |               |  |       |  |                          |  |   |  |                                |  |
|-----|---------|-----|-----|-----|--------------|--|---------------|--|-------|--|--------------------------|--|---|--|--------------------------------|--|
|     |         |     |     |     | DESIGNED BY: |  |               |  |       |  | SCALE: NTS               |  | <b>SOUND TRANSIT</b><br><b>STANDARD DRAWINGS</b><br>LANDSCAPE<br><br>TREE AND PLANT PROTECTION SCHEDULE |  | DRAWING No.: <b>STD-LPS401</b> |  |
|     |         |     |     |     | DRAWN BY:    |  |               |  |       |  | FILENAME: STD-LPS401.DWG |  |   |  | FACILITY ID:                   |  |
|     |         |     |     |     | CHECKED BY:  |  |               |  |       |  | CONTRACT No.:            |  |   |  | SHEET No.: REV: 0              |  |
|     |         |     |     |     | APPROVED BY: |  | SUBMITTED BY: |  | DATE: |  | REVIEWED BY:             |  | DATE:   |  | 12/2024                        |  |
| No. | DATE    | DSN | CHK | APP | REVISION     |  |               |  |       |  |                          |  |   |  |                                |  |
| 0   | 12/2024 |     |     |     | NEW DRAWING  |  |               |  |       |  |                          |  |   |  |                                |  |



| LANDSCAPE CONTROL POINT (LCP) SCHEDULE |              |               |              |
|--|--------------|---------------|--------------|
| POINT                                  | STATION      | OFFSET (FEET) | LEFT / RIGHT |
| LCP-01                                 | R02 41+68.10 | 44.17         | RIGHT        |
| LCP-02                                 | R02 42+36.24 | 44.11         | RIGHT        |
| LCP-03                                 | R02 42+49.43 | 44.10         | RIGHT        |
| LCP-04                                 | R02 42+81.03 | 44.08         | RIGHT        |
| LCP-05                                 | R02 42+81.08 | 49.61         | RIGHT        |

| LANDSCAPE ARC LAYOUT SCHEDULE |               |        |        |
|-------------------------------|---------------|--------|--------|
| ARC                           | RADIUS (FEET) | START  | END    |
| ARC-01                        | 0.0           | LCP-21 | LCP-22 |
| ARC-02                        | 606.17        | LCP-23 | LCP-24 |
| ARC-03                        | 4856.92       | LCP-25 | LCP-26 |
| ARC-04                        | 606.17        | LCP-27 | LCP-28 |
| ARC-05                        | 4856.92       | LCP-29 | LCP-30 |

**NOTES:**

- SEE CIVIL DWGS FOR EXISTING CONDITIONS, DEMOLITION, GRADING, DRAINAGE AND UTILITIES.
- SEE ARCH DWGS FOR ABOVE GRADE STRUCTURES.
- SEE CIVIL L07-CPXXX SERIES FOR PAVEMENT RESTORATION AND STATION POINTS
- ALIGN ALL ADJACENT PAVEMENT SCORING UNLESS OTHERWISE NOTED

**LANDSCAPE LAYOUT SCHEDULES**

SCALE: NOT TO SCALE

**LANDSCAPE AND SITE / HARDSCAPE ABBREVIATIONS**

|          |                                    |        |                          |          |                        |           |  |     |                               |
|----------|------------------------------------|--------|--------------------------|----------|------------------------|-----------|--|-----|-------------------------------|
| ABV      | ABOVE                              | CIP    | CAST-IN-PLACE            | ELEC     | ELECTRICAL             | ID        | INSIDE DIAMETER /                        | MP  | MASTER PLAN                   |
| AC       | ASPHALT CONCRETE                   | CL     | CENTERLINE               | EL/ ELEV | ELEVATION              | IN        | INSIDE DIMENSION                         | MSE | MECHANICALLY STABILIZED EARTH |
| ADA      | AMERICANS WITH DISABILITIES ACT    | CJ     | CONTROL JOINT            | EJ       | EXPANSION JOINT        | IRG, IRRG | INCH / INCHES                            |     |                               |
| ADDL     | ADDITIONAL                         | CLR    | CLEAR                    | EQ       | EQUAL                  | JT        | IRRIGATION                               |     |                               |
| ADJ      | ADJACENT                           | CONC   | CONCRETE                 | EXPO     | EXPOSED                |           |  |     |                               |
| AL/ ALUM | ALUMINUM                           | CONT   | CONTINUED / CONTINUOUS   | EXIST/EX | EXISTING               |           |  |     |                               |
| ALT      | ALTERNATE                          | COORD  | COORDINATE               | FB       | FLAT BAR               | KCDOT     | KING COUNTY DEPARTMENT OF TRANSPORTATION |     |                               |
| APPROX   | APPROXIMATE                        | COS    | CITY OF SEATTLE          | FDN      | FOUNDATION             | KC / KCM  | KING COUNTY / KING COUNTY METRO          |     |                               |
| ARCH     | ARCHITECT / ARCHITECTURAL          | CRZ    | CRITICAL ROOT ZONE       | FF       | FINISH FLOOR           |           | POUND / POUNDS                           |     |                               |
| ASPH     | ASPHALT                            | CTR    | CENTER                   | FG       | FINISH GRADE           | LB / LBS  | LINEAR FOOT / LINEAR FEET                |     |                               |
| AVE      | AVENUE                             | DBH    | DIAMETER AT BREST HEIGHT | FOC      | FACE OF CURB           | LG        | LENGTH                                   |     |                               |
| AVG      | AVERAGE                            | DEPT   | DEPARTMENT               | FOW      | FACE OF WALL           | MAX       | MAXIMUM                                  |     |                               |
| BLDG     | BUILDING                           | DG     | DECOMPOSED GRANITE       | FT       | FOOT / FEET            | MECH      | MECHANICAL                               |     |                               |
| BLW      | BELOW                              | DIA, Ø | DIAMETER                 | GA       | GAUGE                  | MID       | MID POINT                                |     |                               |
| BMS      | BUILDING MANAGEMENT SYSTEM         | DIM    | DIMENSION                | GALV     | GALVANIZE / GALVANIZED | MIN       | MINIMUM                                  |     |                               |
| BOC      | BOTTOM OF CURB / BEGINNING OF CURB | DTL    | DETAIL                   | GVL      | GRAVEL                 | MIR       | MIRROR                                   |     |                               |
| BOT      | BOTTOM                             | DWG    | DRAWING                  | HB       | HOSE BIB               | MISC      | MISCELLANEOUS                            |     |                               |
|          |                                    | E      | EAST                     | HORIZ    | HORIZONTAL             |           |  |     |                               |
|          |                                    | EA     | EACH                     | HT       | HEIGHT                 |           |  |     |                               |

|           |                                      |          |                                      |        |                              |       |   |
|-----------|--------------------------------------|----------|--------------------------------------|--------|------------------------------|-------|---|
| N         | NORTH                                | R        | RADIUS                               | ST     | STREET                       | W/O   | WITHOUT                                       |
| NE        | NORTHEAST                            | REF      | REFERENCE                            | STA    | STATION                      | WSDOT | WASHINGTON STATE DEPARTMENT OF TRANSPORTATION |
| NIC       | NOT IN CONTRACT                      | REQD     | REQUIRED                             | STD    | STANDARD                     |       |   |
| No/ NO    | NUMBER                               | ROW/ R/W | RIGHT-OF-WAY                         | STL    | STEEL                        |       |   |
| NTS       | NOT TO SCALE                         | S        | SOUTH                                | STRUCT | STRUCTURE / STRUCTURAL       |       |   |
| NW        | NORTHWEST                            | SCH      | SCHEDULE                             | SW     | SOUTHWEST                    |       |   |
| OC        | ON CENTER                            | SCL      | SEATTLE CITY LIGHT                   | TBD    | TO BE DETERMINED             |       |   |
| OD        | OUTSIDE DIAMETER / OUTSIDE DIMENSION | SDOT     | SEATTLE DEPARTMENT OF TRANSPORTATION | TEMP   | TEMPORARY                    |       |   |
| OF        | OUTSIDE FACE                         | SE       | SOUTHEAST                            | THK    | THICK                        |       |   |
| PA        | PLANTED AREA                         | SF       | SQUARE FEET                          | TOD    | TRANSIT ORIENTED DEVELOPMENT |       |   |
| PERP      | PERPENDICULAR                        | SHT      | SHEET                                | TS     | TOP OF STEP                  |       |   |
| PL        | PROPERTY LINE                        | SIM      | SIMILAR                              | TW     | TOP OF WALL                  |       |   |
| PLCS      | PLACES                               | SPEC     | SPECIFICATION                        | TYP    | TYPICAL                      |       |   |
| PROP      | PROPOSED                             | SPG      | SIMON PROPERTY GROUP                 | UNO    | UNLESS NOTED OTHERWISE       |       |   |
| PSI       | POUNDS PER SQUARE INCH               | SPP      | SPECIES                              | UTIL   | UTILITY                      |       |   |
| PVC       | POLYVINYL CHLORIDE                   | SPU      | SEATTLE PUBLIC UTILITIES             | VAR    | VARIES/ VARIABLE             |       |   |
| PVMT/PAVE | PAVEMENT                             | SQ       | SQUARE                               | VERT   | VERTICAL                     |       |   |
| QTY       | QUANTITY                             | SS       | STAINLESS STEEL                      | W      | WEST                         |       |   |
|           |                                      |          |                                      | W/     | WITH                         |       |   |

**LANDSCAPE AND SITE / HARDSCAPE ABBREVIATIONS**

NTS

01/30/25 | 3:44 PM | JSLEAMAKER E:\00-PROJECTS\LR STA STANDARDS - 20230302-TAKS 05 STATION CONFIGURATIONS\05-CAD\06-ST UPLOAD FINAL\STD-LZS402.DWG

|               |         |     |     |     |                   |                             |              |  |   |  |
|---------------|---------|-----|-----|-----|-------------------|-----------------------------|--------------|--|---|--|
| DESIGNED BY:  |         |     |     |     | <br>SOUND TRANSIT | SCALE:<br>NTS               |              | <b>SOUND TRANSIT<br/>STANDARD DRAWINGS<br/>LANDSCAPE</b> | DRAWING No.:<br><b>STD-LZS402</b>           |  |
| DRAWN BY:     |         |     |     |     |                   | FILENAME:<br>STD-LZS402.DWG |              |  | FACILITY ID:                                |  |
| CHECKED BY:   |         |     |     |     |                   | CONTRACT No.:               |              |  | SHEET No.:      REV:                        |  |
| APPROVED BY:  |         |     |     |     |                   | DATE:<br>12/2024            |              |  | SITE LAYOUT SCHEDULE AND SITE ABBREVIATIONS |  |
| SUBMITTED BY: |         |     |     |     | DATE:             |                             | REVIEWED BY: |  | DATE:                                       |  |
| No.           | DATE    | DSN | CHK | APP | REVISION          |                             |              |  |   |  |
| 0             | 12/2024 |     |     |     | NEW DRAWING       |                             |              |  |   |  |

**GENERAL SITE LAYOUT NOTES:**

- SEE SHEET L1-001 FOR GENERAL NOTES AND ABBREVIATIONS.
- SEE SHEET LXXXX FOR SOIL CELLS.
- PRIOR TO SITE UTILITY INSTALLATION CONFIRM LOCATION AND ORIENTATION OF ALL SURFACE VAULTS AND TENCH DRAINS TO ENSURE ALIGNMENT WITH PAVEMENT JOINTS AND WALL LOCATIONS.
- EXPANSION JOINT SHALL BE LOCATED BETWEEN ALL HARDSCAPE AND ADJACENT BUILDING FACADES, FOUNDATIONS, SITE WALLS, STAIR RISERS, LIGHT POLE BASES AND FOOTINGS, EXPANSION JOINTS SHALL BE LOCATED ALONG EXTENTS OF PROPERTY LINE PER AHJ STANDARDS UNLESS OTHERWISE NOTED.
- ALIGN EXPANSION JOINTS WITH CORNERS OF SITE WALLS, BUILDING CORNERS, FOOTINGS, AND FLUSH GROUND VAULTS UNLESS OTHERWISE NOTED. ADJUST JOINT SPACING IF REQUIRED PRIOR TO INSTALL FOR REVIEW AND APPROVAL OF LANDSCAPE ARCHITECT.
- ALIGN ALL ADJACENT PAVEMENT JOINTS UNLESS OTHERWISE NOTED.
- ALIGN ALL SITE FURNISHINGS WITH ADJACENT PAVEMENTS, WALLS, AND PLANTING EDGES, UNLESS OTHERWISE NOTED.
- ALIGN SITE FURNISHINGS WITH EACH OTHER AND ADJACENT SITE FEATURES AS ILLUSTRATED, UNLESS OTHERWISE NOTED.
- SET TOP OF SITE FURNISHINGS LEVEL UNLESS OTHERWISE NOTED.
- ALL WORK SHALL BE PLUMB AND SQUARE UNLESS OTHERWISE NOTED.
- LAYOUT OF SITE AND LANDSCAPES FEATURES IS BASED ON ARCH GRID. CONTRACTOR TO VERIFY AND CONFIRM ALL DIMENSIONS AND PHYSICAL CONDITIONS SHOWN OR IMPLIED ON CONTRACT DOCUMENTS. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY OF HORIZONTAL AND VERTICAL DISCREPANCIES BETWEEN CONDITIONS AND WHAT IS SHOWN ON PLANS PRIOR TO FABRICATION OF ELEMENTS OR INSTALLATION.
- LANDSCAPE ARCHITECT TO CONFIRM LAYOUT/ORIENTATION OF SURFACE MOUNTED SITE FEATURES AND FURNISHINGS IN THE FIELD PRIOR TO INSTALLATION.
- LANDSCAPE ARCHITECT SHALL CONFIRM IN THE FIELD ALL PAVEMENT JOINT SPACING AND LAYOUT PRIOR TO SAW-CUT.

**GENERAL PLANTING SOIL AND DRAINAGE LAYER NOTES:**

- CONFIRM SUBGRADE DRAINAGE IN EACH PLANTING AREA PRIOR TO INCORPORATION OF NEW PLANTING SOIL. IF SUBGRADE DRAINAGE DOES NOT DEMONSTRATE INFILTRATION OF 1" PER HOUR, ADDITIONAL DRAINAGE MEASURES SHALL BE REQUIRED.
- EXISTING SOIL TO REMAIN SHALL BE RECONDITIONED / AMENDED W/ 3" ORGANIC COMPOST. INCORPORATE INTO THE TOP 12" OF EXISTING SOIL.
- EXISTING PLANTING SOIL SHALL BE TESTED FOR SUITABILITY AND POTENTIAL RE-USE. SALVAGE AND RE-USE OF EXISTING PLANTER SOILS SHALL BE DETERMINED DURING CONSTRUCTION PHASE AND APPROVED BY LANDSCAPE ARCHITECT.
- ALL NEW SHRUB AND TREE PLANTING SOIL SHALL BE CEDAR GROVE 3-WAY TOPSOIL UNLESS OTHERWISE NOTED.
- ALL LAWN AND GRASS PLANTING SOIL SHALL BE CEDAR GROVE LAWN MIX UNLESS OTHERWISE NOTED.
- INSTALL CONTINUOUS DRAIN MAT UNDER ALL PLANTING AREAS ON STRUCTURE AND ON THE BACK SIDE OF PLANTER WALLS ON-GRADE AND ON-STRUCTURE UNLESS OTHERWISE NOTED. DRAINAGE LAYER SHALL BE LOCATED OVER EXISTING STRUCTURE OR NEW GEOFOAM / EPS. SIDES OF PLANTERS ON STRUCTURE SHALL USE GR-30 DRAIN MAT, OR EQUIVALENT.
- EPS / GEOFOAM SHALL BE USED TO FILL VOIDS AND MAKE GRADE AS REQUIRED BETWEEN EXISTING SLAB TO REMAIN AND FINISH SURFACES. FIELD VERIFICATION REQUIRED TO CONFIRM DEPTHS.
- SOIL DEPTHS ARE ESTIMATED AND INTENDED TO BE MINIMUMS FOR TREE AND PLANT ROOT REQUIREMENTS. IF EXCEEDING SOIL DEPTHS IS PROPOSED BY CONTRACTOR DURING CONSTRUCTION, REVIEW AND APPROVAL IS REQUIRED BY LANDSCAPE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO INSTALL TO CONFIRM EXISTING STRUCTURE LOAD CAPACITIES ARE NOT EXCEEDED.


**GENERAL PLANTING IRRIGATION NOTES:**

- SEE SITE SURVEY FOR EXISTING CONDITIONS.
- SEE SHEET XXXX FOR SITE MATERIALS.
- SEE SHEET XXXX FOR SITE LAYOUT.
- SEE SHEET LXXXX FOR SOIL CELLS.
- SEE SHEET XXXX FOR PLANTING.
- SEE SHEET XXXX FOR IRRIGATION DETAILS.
- SEE SHEET XXXX FOR IRRIGATION SCHEDULE.
- ALL PLANTING AREAS SHALL BE IRRIGATED BY AN AUTOMATIC IRRIGATION SYSTEM.
- WATER SUPPLY / POINT OF CONNECTION (POC) AND IRRIGATION CONTROLLER SHALL BE LOCATED IN THE MECHANICAL ROOM.
- BACKFLOW PREVENTER (DOUBLE CHECK VALVE) SHALL BE PROVIDED BY MECHANICAL.
- SEE MECHANICAL PLANS FOR ROOF IRRIGATION WATER SUPPLY AND METER.
- VERIFY LOCATIONS OF IRRIGATION STUB-OUTS AT BUILDING FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- SEE CIVIL PLANS FOR STREET/ROW/SITE IRRIGATION WATER SUPPLY, BACKFLOW ASSEMBLY AND METER. VERIFY LOCATION PRIOR TO COMMENCEMENT OF WORK.
- SEE ELECTRICAL PLANS FOR IRRIGATION CONTROLLER POWER CONNECTIONS. VERIFY LOCATIONS OF CONNECTIONS AND CONDUITS PRIOR TO COMMENCEMENT OF WORK.
- IRRIGATION SYSTEMS DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE AND MAXIMUM FLOW DEMAND OF EACH ZONE SHOWN ON THE PLANS. VERIFY STATIC PRESSURE AT EACH STUB-OUT LOCATION AND SUBMIT WRITTEN REPORT PRIOR TO BEGINNING WORK. NOTIFY OWNER'S REPRESENTATIVE IF STATIC PRESSURE IS LESS THAN 50 PSI.
- THE IRRIGATION DESIGN IS DIAGRAMMATIC. PIPING AND VALVES SHOWN WITHIN PAVEMENT AREAS ARE FOR GRAPHIC CLARITY ONLY. MAKE ADJUSTMENTS TO THE DRIPPERLINE AND LATERAL PIPE LAYOUT TO ENSURE COMPLETE IRRIGATION COVERAGE. PIPE SIZING SHALL BE ADJUSTED ACCORDINGLY, AND WATER VELOCITY SHALL NOT EXCEED 5 FEET PER SECOND. AVOID CONFLICTS BETWEEN IRRIGATION SYSTEM AND PLANTING, UTILITIES AND ARCHITECTURAL FEATURES.
- DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY TO PROVIDE A FULLY FUNCTIONING SYSTEM WITH COVERAGE TO ALL PLANTS.
- LOCATE VALVES, HOSE BIBS, AND OTHER ACCESSIBLE VAULTS AND BOXES IN AREAS INDICATED ON THE PLANTING PLAN. IRRIGATION FIXTURES AND FEATURES SHALL BE LOCATED TO AVOID INTERRUPTING THE PLANTING LAYOUT PATTERNS AND ALIGNMENTS. SUBMIT PROPOSED VALVE BOX LAYOUT FOR APPROVAL PRIOR TO INSTALLATION.
- SLEEVE ALL IRRIGATION PIPE AND WIRES UNDER WALLS, STAIRS, AND PAVEMENTS. COORDINATE SLEEVE LOCATIONS WITH OTHER TRADES.
- ADJUST ALIGNMENT OF ALL DRIPPER LINES AROUND PROPOSED TREE LOCATIONS.
- ROUTE COMMON AND CONTROL WIRES FROM THE IRRIGATION CONTROLLER TO REMOTE CONTROL VALVES. PROVIDE ONE SPARE PAIR OF WIRES FROM THE CONTROLLER TO THE FARTHEST VALVE ON THE ENDS OF EACH MAINLINE RUN. PROVIDE CONDUIT FOR ALL CONTROL WIRE RUNS WITHIN THE BUILDING. PROVIDE WATER-TIGHT SEALS AT ALL WALL AND ROOF PENETRATIONS.
- PROVIDE PROTECTION OF ALL PROPERTY, PERSONS, WORK IN PROGRESS, WATERPROOFING, PAVERS, WALKS, CURBS, PAVED SURFACES, AND EXISTING FEATURES TO REMAIN.
- IRRIGATION CONTROLLER SHALL BE LOCATED WITHIN ACCESSIBLE AND SECURE MAINTENANCE AREA. CONTROLLER REQUIRES WIFI CONNECTIVITY TO SYNC W/ WEATHER-BASED SOFTWARE AND MOBILE DEVICE LINK FOR OPERATIONAL MONITORING AND CONTROL.
- REMOVE ALL ABANDONED EXISTING IRRIGATION PIPING WITHIN LIMITS OF WORK.
- DAMAGED OR DISRUPTED PORTIONS OF ADJACENT EXISTING SYSTEMS NOT NOTED ON THE PLANS SHALL BE REPLACED IN CONFORMANCE WITH THE SPECIFICATIONS.
- COORDINATE PLANT LAYOUT WITH IRRIGATION AND ELECTRICAL VAULTS TO PREVENT PLANT LAYOUT CONFLICTS.
- COORDINATE PLANT LAYOUT WITH IRRIGATION SPRAY HEAD LOCATION TO PROVIDE MAXIMUM SPRAY COVERAGE. ADJUST SPRAY HEAD LOCATIONS IF TREE AND PLANT LAYOUT IS INTERRUPTED.
- TEMPORARY IRRIGATION REQUIRES APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO PLANT INSTALLATION.
- IRRIGATION COVERAGE TEST FOR SPRAY HEADS IS REQUIRED PRIOR TO PLANT INSTALLATION.
- IRRIGATION COVERAGE TEST FOR DRIPLINE IS REQUIRED PRIOR TO MULCH INSTALLATION.

**GENERAL PLANTING NOTES:**

- SEE SHEET XXXX FOR SITE MATERIALS.
- SEE SHEET XXXX FOR SITE LAYOUT.
- SEE SHEET LXXXX FOR SOIL CELLS.
- SEE SHEET XXXX FOR IRRIGATION.
- SEE SHEET XXXX FOR PLANTING DETAILS.
- SEE SHEET XXXX FOR PLANTING SCHEDULE.
- EXISTING TREES REQUIRING REMOVAL IN AHJ PARCELS SHALL BE REPLACED WITH RATIO IN ACCORDANCE WITH AHJ URBAN FORESTRY REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING QUANTITY OF PLANTS THAT ARE REPRESENTED BY SYMBOLS ON THE DRAWINGS. IF A DISCREPANCY BETWEEN THE PLAN AND PLANT SCHEDULE IS DISCOVERED, NOTIFY THE LANDSCAPE ARCHITECT FOR CLARIFICATION. CONTRACTOR SHALL ASSUME THE LARGER QUANTITY FOR BUDGET AND PROCUREMENT PURPOSES.
- PLANT MATERIALS SHALL BE LOCALLY GROWN (LOWER PUGET SOUND REGION), HEALTHY, FULLY FORMED, IN VIGOROUS GROWING CONDITION, AND BE GUARANTEED TRUE TO SIZE, NAME, AND VARIETY.
- PLANTS SHALL BE NURSERY GROWN, WELL-ROOTED, OF NORMAL GROWTH AND HABIT, AND FREE FROM DISEASE OR INFESTATION. THE LA RESERVES THE RIGHT TO REQUIRE REPLACEMENT OR SUBSTITUTION OF ANY PLANTS DEEMED UNSUITABLE.
- TREES SHALL HAVE UNIFORM BRANCHING, SINGLE STRAIGHT TRUNKS, (UNLESS SPECIFIED AS MULTI-STEMMED), AND THE CENTRAL LEADER INTACT AND UNDAMAGED. BALLED AND BURLAPPED STOCK SHALL HAVE BEEN ROOT-PRUNED AT LEAST ONCE WITHIN THE PREVIOUS TWO YEARS. CONTAINER STOCK SHALL BE FULLY ROOTED BUT NOT ROOT-BOUND.
- PLANT MATERIAL WITH DAMAGED ROOT ZONES OR BROKEN ROOT BALLS WILL NOT BE ACCEPTED.
- CONIFEROUS TREES SHALL BE NURSERY GROWN, FULL AND STRAIGHT, WITH UNIFORM BRANCHING AND A NATURAL NON-SHEARED FORM. ORIGINAL CENTRAL LEADER MUST BE HEALTHY AND UNDAMAGED. MAXIMUM GAP BETWEEN BRANCHING SHALL NOT EXCEED 9 INCHES, AND LENGTH OF TOP LEADER SHALL NOT EXCEED 12 INCHES.
- ALL PLANT MATERIAL SHALL BE PLACED IN A PROTECTED LOCATION ON THE PROJECT SITE AND PROVIDE UNRESTRICTED ACCESS FOR VISUAL INSPECTION OF INDIVIDUAL PLANTS. PLANTS SHALL BE ORGANIZED IN BLOCKS BY SPECIES AND SUFFICIENTLY SPACED TO OBSERVE OVERALL GROWTH HABIT. TREES SHALL BE UNTIED AND BRANCHES SEPARATED.
- PLANT MATERIAL SHALL BE STORED IN A MANNER NECESSARY TO ACCOMMODATE THEIR HORTICULTURAL REQUIREMENTS.
- PROTECT PLANT MATERIAL STORED ONSITE FROM WEATHER DAMAGE, CONSTRUCTION ACTIVITY, AND THE PUBLIC.
- BALLED AND BURLAPPED MATERIAL WHICH CANNOT BE INSTALLED IMMEDIATELY SHALL BE "HEELED-IN" TO KEEP FROM DRYING OUT PRIOR TO PLANTING. PROTECT ROOTBALL BY COVERING WITH MOIST NATURAL SOIL, MULCH, OR SAWDUST, UNLESS SPECIFICALLY PROHIBITED.
- CONFIRM LOCATION OF ALL UTILITIES PRIOR TO WORK. CALL FOR UTILITY LOCATE PRIOR TO EXCAVATION. CONSULT WITH CITY STAFF PRIOR TO EXCAVATION.
- IF UTILITIES ARE ENCOUNTERED, INFORM OWNERS REPRESENTATIVE AND CITY STAFF AND REPAIR ANY DAMAGES FOLLOWING JURISDICTIONAL REQUIREMENTS.
- COORDINATE PLANT LAYOUT WITH IRRIGATION AND ELECTRICAL VAULTS TO PREVENT PLANT LAYOUT CONFLICTS.
- CLEAN ALL DEBRIS DURING CONSTRUCTION AND LEAVE THE SITE IN A SAFE AND CLEAN CONDITION AT THE END OF INSTALLATION PRIOR TO FINAL ACCEPTANCE.
- CONTRACTOR SHALL REMOVE ALL INVASIVE VEGETATION IN AREAS OF NEW CONSTRUCTION.
- PLANT SUPPLIER SHALL WARRANTY THE PLANT MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. ALL REPLACED PLANTS SHALL HAVE A ONE-YEAR WARRANTY BEGIN AT THE TIME OF REPLACEMENT.
- IF REPLACEMENT OF PLANT MATERIAL IS NECESSARY DUE TO CONSTRUCTION DAMAGE OR PLANT FAILURE WITHIN ONE YEAR OF INSTALLATION, THE SIZES, SPECIES, AND QUANTITIES SHALL BE EQUAL TO DAMAGED OR UNSUITABLE PLANTS, OR AS INDICATED ON THE PLANS.
- UNACCEPTABLE PLANT MATERIAL SHALL BE REMOVED FROM THE JOB SITE AND REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALIGN ALL PLANTS IN UNIFORM STRAIGHT ROWS ALONG EDGES OF ADJACENT FACADES, PAVEMENTS, AND SITE WALLS UNLESS OTHERWISE NOTED.
- COORDINATE PLANT LAYOUT WITH IRRIGATION SPRAY HEAD LOCATION TO PROVIDE MAXIMUM SPRAY COVERAGE. ADJUST SPRAY HEAD LOCATIONS IF TREE AND PLANT LAYOUT IS INTERRUPTED.
- TOP OF SHRUB, GRASS, AND GROUND COVER ROOT BALL SHALL BE INSTALLED FLUSH WITH TOP OF PLANTING SOIL.
- TREE ROOT FLARE SHALL BE EXPOSED PRIOR TO ESTABLISHING ROOT BALL ELEVATION. ROOT FLARE SHALL BE MINIMUM 1-INCH ABOVE TOP OF ADJACENT PLANTING SOIL ELEVATION.
- MULCH IN ALL PLANT BEDS SHALL BE 2" DEPTH UNLESS OTHERWISE NOTED.
- MULCH SHALL NOT BE INSTALLED WITHIN 2 INCHES OF PLANT TRUNKS AND STEMS. MAINTAIN OPEN RING OF EXPOSED ROOT BALL.
- DO NOT BEGIN PLANT INSTALLATION UNTIL IRRIGATION SYSTEM IS FULLY FUNCTIONAL. ALL EXISTING AND NEW PLANTING REQUIRES WATER DURING CONSTRUCTION.
- PLANT MATERIAL SHALL NOT BE INSTALLED UNTIL IT HAS BEEN APPROVED BY THE LANDSCAPE ARCHITECT AND RESIDENT ENGINEER.

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|                   |         |     |     |     | APPROVED BY:  |  |  |       |   | CONTRACT No.: |   |  |              |  |  |
|                   |         |     |     |     | SUBMITTED BY: |  |  | DATE: | REVIEWED BY:  |               | DATE:   | <p style="text-align: center;">SITE AND LANDSCAPE NOTES 1 OF 2</p> |              |  |  |
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**NOTES:**

- SEE SITE SURVEY FOR EXISTING CONDITIONS.
- SEE CIVIL DRAWINGS FOR CURBS, PEDESTRIAN ADA RAMPS, DRIVEWAYS, VEHICULAR PAVING, ABOVE GROUND AND UNDERGROUND SITE STRUCTURES, VAULTS, CONDUITS AND UTILITIES, AND OTHER SITE FEATURES AS NOTED.
- SEE ARCHITECTURAL DRAWINGS FOR ALL BUILDING STRUCTURES AND CODE REQUIRED EGRESS STAIRS AND LANDINGS WITHIN BUILDING ENVELOPE.
- CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND JURISDICTIONAL AUTHORITY IN WRITING OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE TO NOTIFY THE AUTHORITY WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO PERFORM THE WORK AS INTENDED BY THE CONTRACT DOCUMENTS.
- DRAWINGS SHALL NOT BE MANUALLY SCALED. USE DIMENSIONS ONLY FOR LAYOUT. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CLEARANCES, AND CONDITIONS PRIOR TO FABRICATION OF NEW ITEMS AND CONSTRUCTION WORK.
- SEE SHEET LXXX FOR TEMPORARY TREE AND PLANT PROTECTION PLAN.
- TREE PROTECTION MEASURES BEGIN PRIOR TO ANY WORK OCCURRING ON SITE AND REMAIN IN PLACE UNTIL ALL WORK IS COMPLETE.
- EXCAVATION, BACKFILL, CUTTING AND PATCHING REQUIRED TO COMPLETE THE WORK SHALL BE DONE BY THE CONTRACTOR.
- PERFORM WORK IN COMPLIANCE WITH THE RULES AND REGULATIONS OF THE JURISDICTION BUILDING CODE AND ALL OTHER ORDINANCES AND AUTHORITIES HAVING JURISDICTION OVER THE PROJECT.

**(IF APPLICABLE) CITY OF SEATTLE - GREEN FACTOR NOTES (OR OTHER APPLICABLE AHJ REQUIREMENTS):**

- GREEN FACTOR LANDSCAPE ELEMENTS FOR THE PROJECT IN ACCORDANCE WITH THE CITY OF SEATTLE GREEN FACTOR REQUIREMENTS.
- SEE GREEN FACTOR SCORE SHEETS AND WORKSHEETS FOR DETAILED INFORMATION FOR EACH PARCEL AND PLANTING AREA.
- CALCULATIONS DESCRIBE LANDSCAPE AND SITE FEATURES THAT INCLUDE TREES AND PLANT AREAS, SOIL VOLUMES, PERMEABLE PAVEMENTS, AND BIORETENTION AREAS DESIGNED TO MEET THE REQUIRED GREEN FACTOR SCORE OF 0.3 PER SECTION 23.45.570.D2 AND PURSUANT TO THE STANDARDS SET FORTH IN SECTION 23.86.019 OF THE CITY OF SEATTLE LAND USE CODE.
- SCORE INCLUDES ALL ADJACENT ROW AREAS (SOILS, TREES, PLANTING) INCLUDED IN NEW WORK OR EXSITING THAT SHALL REMAIN PROTECTED.
- DESIGN DOCUMENTS ILLUSTRATE THE FOLLOWING:  
PARCEL SIZE = XX,XXX SF  
SCORE = 0.XXX

**GENERAL TREE PROTECTION, SALVAGE, AND DEMOLITION NOTES:**

- SEE SITE SURVEY FOR EXISTING CONDITIONS.
- PRESERVE AND PROTECT EXISTING SITE, ROW AND ADJAENT PROPERTY TREES TO REMAIN AROUND THE PERIMETER OF THE PROJECT LIMIT WITHIN CONSTRUCTION ACTIVITY ZONE UNLESS OTHERWISE NOTED.
- SEE SHEET LXXX FOR TREE PROTECTION AND DEMOLITION SCHEDULE.
- TREE PROTECTION SHALL FOLLOW SPECIFICATIONS AS MINIMUM REQUIREMENT FOR ALL TREES WITHIN PROPERTY. ROW TREES SHALL BE PROTECTED USING THE JURISDICTIONAL REQUIREMENTS AS MINIMUM. FOLLOW THE MOST STRINGENT PROTECTION REQUIREMENTS PROVIDED IN DRAWINGS AND SPECIFICATIONS.
- TREES FOR TIMBER SALVAGE AND RE-USE SHALL BE COORDINATED WITH THE OWNER.
- SEMI-PERMANENT CHAIN-LINK FENCE TO BE LOCATED AT THE CRITICAL ROOT ZONE OF EACH EXISTING TREE TO REMAIN. CRZ IS CALCULATED AS AN AREA 1" IN RADIUS FOR EVERY 1" OF TRUNK DIAMETER AT STANDARD HEIGHT PER TREE.
- ANY EXCAVATION AND/OR SOIL PREPARATION WITHIN EXISTING TREE TO REMAIN CRZS TO BE COMPLETED BY HAND UNDER DIRECTION AND OBSERVATION OF PROJECT ARBORIST.
- SUBMIT TREE PROTECTION AND MAINTENANCE PLAN FOR APPROVAL PRIOR TO CONSTRUCTION ACTIVITIES.
- ALL ROW AND CITY OWNED PROPERTIES REQUIRE APPROVED TREE CARE PROFESSIONAL AS DEFINED IN JURSDICTION'S RULES AND REGULATIONS THROUGHOUT THE WORK PERIOD FOR OVERSIGHT, INSPECTIONS, AND RECOMMENDATIONS FOR EXISTING TREES TO REMAIN AND PROTECT.

**GENERAL SITE DEMOLITION NOTES:**

- SEE SITE SURVEY FOR EXISTING CONDITIONS.
- COORDINATE ALL LANDSCAPE AND SITE DEMOLITION AND PROTECTION WITH ADJACENT CIVIL AND ARCH DEMOLITION, PROTECTION, AND IMPROVEMENTS.
- PROTECT ADJACENT FACADES, BUILDING COLUMNS, PLANTER WALLS, AND EXISTING TREES TO REMAIN.
- CONFIRM LOCATIONS AND DECOMMISSIONING OF ALL ABOVE GROUND AND UNDERGROUND INFRASTRUCTURE PRIOR TO SITE DEMO.
- PROTECT EXISTING OVERHAED, SURFACE AND UNDERGROUND AND UTILITY INFRASTRUCTURE TO REMAIN. SEE CIVIL AND MEP.
- MATERIALS TO SALVAGE SHALL BE VERIFIED AND MARKED BY LANDSCAPE ARCHITECT PRIOR TO DEMOLITION.
- SEE ARCH FOR ILLUSTRATION OF EXTENT OF DEMO ABOVE STRUCTURE AND ADJACENT COLUMNS AND FACADES.
- ALL WALLS AND PAVEMENT DEMO AREAS TO BE MARKED IN FIELD AND APPROVED BY OWNER'S REPRESENTATIVE BEFORE DEMOLITION OCCURS.

**(IF APPLICABLE) SDOT URBAN FORESTRY (OR APPLICABLE AHJ)**

**REQUIREMENTS FOR TREES IN ROW:**

TREE PROTECTION AND TREE REMOVAL & REPLACEMENT POSTING FOR PUBLIC NOTICE FOR:

STREET TREES ON (insert address here) SHALL BE COORDINATED WITH THE SDOT URBAN FORESTRY LANDSCAPE ARCHITECT'S OFFICE.

COORDINATION FOR POSTING SHALL BE REQUESTED BY THE PROJECT A MINIMUM OF 6 WEEKS PRIOR TO THE PROPOSED REMOVAL DATE TO PROCESS SDOT TREE REMOVAL PERMIT(S) AND PUBLIC COMMENT. TREE PROTECTION NOTICES SHALL BE PROVIDED BY SDOT URBAN FORESTRY AND SHALL BE INSTALLED AND MAINTAINED BY THE PROJECT FOR THE DURATION OF THE PROJECT AS A CONDITION OF SDOT STREET USE PERMITS ISSUED FOR THE SEATTLE CENTER ARENA PROJECT.

**DEMOLITION & TEMPORARY CONSTRUCTION ACCESS / STAGING / SOUND ATTENUATION:**

TREE CANOPY AND/OR ROOT PROTECTION REQUIREMENTS SHALL BE SUBJECT TO REVIEW AND APPROVAL BY SDOT URBAN FORESTRY TO AVOID OR MITIGATE ALL POTENTIAL IMPACTS DUE TO DEMOLITION OF EXISTING IMPROVEMENTS OR TEMPORARY CONSTRUCTION ELEMENTS PRIOR TO WORK.

**EXCAVATION:**

EXPLORATORY EXCAVATION (VIA AIR SPADE AND VAC TRUCK OR METHODS OTHERWISE APPROVED IN ADVANCE) SHALL BE UNDERTAKEN AS FIELD MARKED BY SDOT URBAN FORESTRY TO A DEPTH DEFINED BY SDOT URBAN FORESTRY UP TO 36" TO EXPOSE ROOTS WITHIN THE CRITICAL ROOT ZONE OF TREES TO BE RETAINED. EXPOSED ROOTS SHALL BE FIELD REVIEWED & FIELD MARKED FOR RETENTION BY SDOT URBAN FORESTRY.

**RETENTION REQUIREMENTS INCLUDE:**

- A.FIELD REVIEW WITH SDOT SHORING INSPECTION STAFF TO CONFIRM PILE LOCATIONS (POTENTIALLY ADJUSTING UP TO 24" OF SHORING WALL PIER DESIGN LOCATIONS) FOR SHORING WALLS IF APPLICABLE.
- B.ROOT PRUNING AS FIELD MARKED OR OTHERWISE FIELD DIRECTED BY SDOT URBAN FORESTRY

**CHAIN LINK TREE PROTECTION FENCING, ROOT AND SURFACE PROTECTION REQUIREMENTS:**

1.TREE PROTECTION FENCE ROOT PROTECTION AND SURFACE PROTECTION MEASURES SHALL BE INSPECTED AND APPROVED BY SDOT URBAN FORESTRY TO MEET OR EXCEED STANDARD SPECIFICATIONS AND STANDARD PLANS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION 2017 EDITION:

A.132a OPTION-2 FOR TREES IN TREE PITS INCLUDING AREA FIELD MARKED FOR SOIL RECONDITIONING WITHIN THE CRITICAL ROOT ZONE

OR

B.133R TREES IN UNPAVED AREAS - SEE DETAIL ON THIS SHEET, AND

C.STANDARD SPECIFICATION 8-01.3(2)B TREE. VEGETATION AND SOIL PROTECTION PLAN (TVSPP).

2.TREE PROTECTION FENCE EXTENTS AND SURFACE PROTECTION MEASURES SHALL BE CONFIRMED AND MARKED ON SITE AS A COMPONENT OF FIELD REVIEW WITH SDOT URBAN FORESTRY.

**GENERAL SITE MATERIALS NOTES:**

- SEE ARCHITECTURAL FOR WATERPROOFING, INSULATION, DRAINAGE, AND PROTECTION OVER STRUCTURE.
- SEE CIVIL SHEETS FOR HARDSCAPE GRADING, DRAINAGE, DEMOLITION OF EXISTING SITE FEATURES, AND UTILITIES.
- SEE SHEET LXXX FOR GENERAL LANDSCAPE GRADING.
- SEE SHEET LXXX FOR TREE AND PLANT PROTECTION PLAN.
- SEE SHEET LXXX FOR SITE MATERIALS LEGEND AND GENERAL NOTES AND ABBREVIATIONS.
- PEDESTRIAN CONCRETE PAVEMENT SHALL BE CAST-IN-PLACE W/ SAW-CUT JOINTS, CAULKED AND SANDED EXPANSION JOINTS. USE STANDARD CITY SIDEWALK MIX, UNLESS OTHERWISE NOTED.
- SITE WALLS SHALL BE CAST-IN-PLACE CONCRETE W/ 1/4" DIA TOOLED EDGE ON ALL EXPOSED CORNERS AND EDGES. SMOOTH FINISH ON ALL EXPOSED VERTICAL AND HORIZONTAL FACES. SANDBLAST FINISH ON TOP FACE OF WALL AS NOTED. SLOPE TOP OF WALL 1% UNLESS OTHERWISE NOTED.
- SEAT STEPS SHALL BE CAST-IN-PLACE CONCRETE W/ 1/4" DIA TOOLED EDGE ON ALL EXPOSED CORNERS AND EDGES. SMOOTH FINISH ON ALL EXPOSED VERTICAL AND HORIZONTAL FACES. SANDBLAST FINISH ON TOP FACE OF SEAT STEPS AS NOTED. SLOPE TOP OF STEPS 1% TO DRAIN TOWARD PAVEMENT UNLESS OTHERWISE NOTED.
- SITE STEPS SHALL BE CAST-IN-PLACE CONCRETE W/ LIGHT SANDBLAST TREADS AND SMOOTH RISER FACE FINISH, 3-GROOVED INDICATOR NOSING, AND SLOPED RISERS. SLOPE ALL TREADS UNIFORMLY 1% TO DRAIN TOWARD BOTTOM UNLESS OTHERWISE NOTED.
- SITE HANDRAILS SHALL BE 1-1/2" DIA STAINLESS STEEL TUBE, ALL WELDS CONTINUOUS AND GROUND SMOOTH, EASE EDGES, BRUSHED FINISH. ALL SITE STAIRS SHALL HAVE HANDRAILS TO MEET CODE REQUIREMENTS FOR EGRESS.
- SITE LEAN RAILS SHALL BE 1/2" THK STAINLESS STEEL PLATE, ALL WELDS CONTINUOUS AND GROUND SMOOTH, EASED EDGES, LIGHT SANDBLAST FINISH W/ 6" WIDE WOOD CAPS.

**GENERAL SITE GRADING NOTES:**

- SEE ARCHITECTURE AND CIVIL DRAWINGS FOR DEMOLITION PLANS.
- SEE CIVIL FOR ALL FINISH GRADING OF PEDESTRIAN PAVEMENT AND DRAINAGE FEATURES.
- SEE ARCHITECTURAL FOR WATERPROOFING, INSULATION, DRAINAGE, AND PROTECTION ON STRUCTURE.
- SEE SHEET XXXX SITE SURVEY FOR EXISTING CONDITIONS.
- SEE SHEET XXXX FOR SITE MATERIALS.
- SEE SHEET XXXX FOR SITE LAYOUT.
- SEE SHEET XXXX FOR SOILS AND SOIL CELLS PLAN.
- SEE SHEET XXXX FOR IRRIGATION.
- SEE SHEET XXXX FOR PLANTING.
- SITE GRADES ARE INTENDED TO ILLUSTRATE GENERAL CONDITIONS ACROSS THE SURFACE OF THE SITE.
- SPOT ELEVATIONS ARE ASSUMED TO REFER TO CORNER / BASE OF STEPS, WALLS, TRENCH DRAINS, AND EDGES OF PAVEMENT AREAS.
- PEDESTRIAN PAVEMENT GRADING SHALL PROVIDE POSITIVE GRAVITY DRAINAGE TO PLANTING AREAS AND DRAINAGE FEATURES.
- FLUSH TRANSITIONS AT ALL POINTS OF ENTRY TO BUILDINGS, WITH 1/8" DROP IN ELEVATION FROM INTERIOR TO EXTERIOR.
- FLUSH TRANSITIONS FOR NEW WORK TO MEET AND MATCH EXISTING ADJACENT PAVEMENTS, BRIDGES, AND DECK ELEVATIONS.
- SLOPE EXTERIOR PAVEMENTS AWAY FROM BUILDING FOR POSITIVE DRAINAGE AWAY FROM FACADE AND DOORS WITH MINIMUM 1% SLOPE.
- SLOPE ALL SITE STAIR TREADS UNIFORMLY 1% TO DRAIN TOWARD BOTTOM UNLESS OTHERWISE NOTED.
- SLOPE TOP OF WALL 1% UNLESS OTHERWISE NOTED.
- SLOPE TOP OF SEAT STEPS 1% TO DRAIN TOWARD PAVEMENT UNLESS OTHERWISE NOTED.
- MAXIMUM 1.85% CROSS SLOPE FOR ALL PEDESTRIAN PAVEMENT AREAS INTENDED FOR ADA ACCESSIBLE ROUTES UNLESS OTHERWISE NOTED.
- MAXIMUM 4.8% SLOPE FOR ALL PEDESTRIAN SLOPED WALKS UNLESS OTHERWISE NOTED.
- MAXIMUM 8.0% SLOPE FOR ALL PEDESTRIAN RAMPS UNLESS OTHERWISE NOTED.
- MAXIMUM 3:1 SLOPE FOR PLANTING SOIL UNLESS OTHERWISE NOTED.
- FINISH ELEVATION OF PLANTING SOIL AT PAVEMENT, WALL, AND PLANTER EDGES SHALL BE 1" BELOW TOP OF ADJACENT SURFACE UNLESS OTHERWISE NOTED.
- PROVIDE 12" WIDE TRANSITION AT MAXIMUM 2% SLOPE IMMEDIATELY ADJACENT PAVEMENTS AND SITE WALLS IN ALL PLANTING AREA TO PREVENT EROSION INTO ADJACENT AREAS.
- PLANTING SOIL SURFACE SHALL BE RAKED AND GRADED TO ACHIEVE UNIFORM SURFACES AND PLANAR CONDITIONS BETWEEN PLANTING BED EDGES.
- FINISH GRADE REFERS TO TOP OF PLANTING SOIL. MULCH SHALL BE APPLIED ABOVE FINISH GRADE.
- SLOPES INDICATED SHALL BE MAXIMUMS UNLESS OTHERWISE NOTED

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| CONTRACT No.:            |
| DATE: 12/2024            |

**SOUND TRANSIT  
STANDARD DRAWINGS  
LANDSCAPE**

SITE AND LANDSCAPE NOTES 2 OF 2

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| DRAWING No.: <b>STD-LZN404</b> |
| FACILITY ID:                   |
| SHEET No.: 0                   |
| REV: 0                         |