



Procurement #: 48837>

CITY OF PROVIDENCE, RHODE ISLAND

Department: Parks

RFP Title: Site Improvements at Miguel Luna Park

Opening Date: 04/21/2025

Addendum #: 2

Issue Date: 04/11/2025

The purpose of this addendum is:

See attached

Providence City Hall
25 Dorrance Street
Providence, RI 02903



WENDY NILSSON
Superintendent of Parks

BRETT P. SMILEY
Mayor

Addendum # 2

Site Improvements at Miguel Luna Park

April 11, 2025

Total Pages Including Cover (46 Pages)

Acknowledge Addenda on Bid Form

**** BID DUE DATE MONDAY, April 21, 2025, AT 2:15PM ****

Attachments:

1. Addendum Cover Sheet (1 Page)
2. Pre-bid Conference Sign-in Sheet (1 Page)
3. RFP – Bid Package Specifications – pages 15-28 (14 Pages)
4. Plans – Sheets L-1 to L-16 (17 Pages)
5. Plans – Vortex Plumbing & Electrical (3 Pages)
6. Specifications – 116840 Splashpad Play Equipment (6 Pages)
7. Specifications – 323300 Site Furnishings (4 Pages)

Clarifications:

1. Q: Can you please advise/confirm the requested quantities for the site furnishings?
A: Please use information identified on Materials Plans L-5.1 and L-5.2 for quantities and types of furnishings.
2. Q: Is there any concern for the water meter enclosure being non-heated?
A: Water service is only turned on during the warm months when the irrigation, the splashpad and bathrooms are operated.
3. Q: How is the remaining water released from the water meter to prevent winter damage?
A: Water is turned off at the curb stop at the sidewalk.
4. Q: Are both waterlines entering the building?
A: The waterlines entering the building are the existing 1.5" line for bathroom use and the new 2" line designated for the splashpad. The existing 2" irrigation line is to remain as is.

PROVIDENCE PARKS DEPARTMENT
1000 Elmwood Avenue, Providence, RI 02905
Phone: 401-680-7201

Pre-Bid Meeting

Site Improvements at Miguel Luna Park

[illegible]

BID PACKAGE SPECIFICATIONS

Project Description:

Located in the Elmwood neighborhood of Providence, Miguel Luna Memorial Park is situated south of Sackett Street and north of Amos Early Park. The scope of work for this project includes improvements in accessibility and circulation; the installation of a new splashpad with low-flow water features along with infiltration areas, and upgrades to the play areas with equipment for children ages 2-12. Add Alts for this project include improvements to the baseball field and basketball court.

BASE BID: The Base Bid scope of work for this project shall include, but not be limited to the following:

- R&D existing and F&I and/or D&I new splashpad, spray features, controller and manifold
- R&D ex. Irrigation Cabinet and F&I new Water Meter and Cabinet; F&I Waterline for the new Splaspad and tie into ex. irrigation waterline
- R&D ex. and F&I new Asphalt Roadway Paving
- R&D ex. and D&I new Playground Play Features*
- F&I Trees and other plant material
- F&I Concrete Paving and Base
- R&D ex. and F&I new Play Equipment and Site Furnishings
- R&D ex. and F&I new Safety Surfacing
- D&I Granite Treads and Cobble

***The Awarded Bidder/General Contractor must coordinate delivery of playground equipment from the manufacturer to the construction site and install in accordance with the plans, specifications and manufacturer's instructions.**

ADD ALTERNATES include:

- F&I Bleachers on Concrete Pad
- F&I Timber Retaining Walls
- R&D ex. and F&I new Dugouts with Concrete Pads and Metal Corrugated Roofs
- R&D ex. and F&I new Infield Mix and Sod
- F&I Batting Enclosure w/ Electric Power
- R&D ex. Path and F&I Loam Hydroseed
- R&D ex. and new F&I Basketball Court
- F&I Trees and Shrubs

In addition to stating the Total Base Bid, the bidder shall state Unit Prices for related work listed under each bid item which represents the work items included in the Total Base Bid. The Unit Prices are quoted for computing adjustments to the Base Bid prior to Contract award, as well as during the course of construction, based upon extra work ordered by the City or for work countermanded, reduced or omitted by the City in order to stay within the Project budget.

Base Bid Items and Unit prices are to be Completed prices to be added or deducted on the basis of quantities of work involved, for each item in place in the unit indicated.

All Work Included in this Project Shall be Completed for the lump sum of:

Dollars

(\$ _____), **TOTAL BASE BID**

ALLOWANCE: \$45,000.00

BASE BID W/ ALLOWANCE: \$ _____

Please note that the list above is not intended to include all items required to complete the base bid scope of work but can and shall be used to adjust the contract prior to or after award – in the best interest of the City of Providence.

BIDDER: _____

ABBREVIATIONS

R&S	Remove & Stockpile	LS	Lump Sum	TN	Ton
R&D	Remove & Dispose	EA	Each	TMR	Thermally Modified Red
D&I	Deliver & Install, owner provided	LF	Linear Foot	(oak)	
F&I	Furnish & Install	SF	Square Foot	R&R	Remove & Reinstall
		CY	Cubic Yard		

ADD ALTERNATES:

1. Add Alt #1 –Dugouts: R&D existing dugouts and F&I Chain Link Dugouts, with Concrete Pads, Corrugated Metal Roofs and Players Benches as per plans, complete. - Per Lump Sum

_____ LS \$ _____
price in writing

2. Add Alt #2 –Ballfield: R&D existing infield mix, strip and remove turf and F&I 4" Infield Mix, Loam and Sod interior and exterior of infield area as per plans, complete. - Per Lump Sum

_____ LS \$ _____
price in writing

3. Add Alt #3 – Bleachers: Strip and dispose turf and F&I 4 Row Bleachers on Concrete Pad, complete. - Per Lump Sum

_____ LS \$ _____
price in writing

4. Add Alt #4 – Batting Enclosure: Strip and dispose turf and F&I 12' Chain Link Batting Enclosure with a 4" Infield Mix and a 4' wide Pedestrian Gate, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

5. Add Alt #5 – Eastern Timber Retaining Wall: F&I (6x6" [5.5x5.5" nom.]) Pressure Treated Ground Contact rated Timber Wall, complete. - Per Lump Sum

_____ LS \$ _____
price in writing

6. Add Alt #6 – Concrete Curb Steps and Timber Retaining Wall, complete. – Per lump sum:
a. F&I (6x6" [5.5x5.5" nom.]) Pressure Treated Ground Contact rated Timber Wall
b. F&I PT GC Timber Step and Gravel Path
c. D&I salvaged Pre-cast Concrete Curb; F&I Gravel Base, and Loam and Hydroseed

_____ LS \$ _____
price in writing

7. Add Alt #7 – Baseball Field Irrigation: F&I Irrigation System utilizing ex. Controller and Power source and tying into ex. 2" waterline, complete. - Per Lump Sum

_____ LS \$ _____
price in writing

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BIDDER: _____

8. Add Alt #8 – R&D Asphalt Walk and Base, F&I Loam and Hydroseed, complete. - Per Lump Sum

_____ LS \$ _____
price in writing

9. Add Alt #9 – F&I Log Scramble – Balance Beams and Log Steppers, complete. - Per Lump Sum

_____ LS \$ _____
price in writing

10. Add Alt #10 – Basketball Court Renovation, complete. – Per lump sum:

- a. R&D ex. and F&I new Asphalt Surface
- b. R&D ex. Posts, Backboards and Rims; F&I new Posts, Backboards and Rims
- c. F&I Surface Sealant and Line Marking

_____ LS \$ _____
price in writing

11. Add Alt #11 – Granite Treads Seating in Slope: D&I salvaged Granite Treads with Gravel Base, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

12. Add Alt #12 – F&I Trees, Shrubs and Perennials, complete – Per Lump Sum:

- a. (10) #3 *Clethra alnifolia* ‘Crystalina’ – Summersweet
- b. (4) #3 *Hydrangea quercifolia* ‘Pee Wee’ – Oakleaf Hydrangea
- c. (8) #3 *Hydrangea serrata* ‘Tuff Stuff Ah-Ha®’ – Lacecap Hydrangea
- d. (11) #3 *Ilex glabra* ‘Nigra’ - Inkberry
- e. (2) 2.5-3" cal. *Nyssa sylvatica* ‘Wildfire’ – Tupelo
- f. (1) 2.5-3" *Cercis canadensis* ‘Forest Pansy’ – Eastern Redbud

_____ LS \$ _____
price in writing

UNIT PRICES – BASE BID:

1. F&I Temporary Tree Protection, complete. – Per Linear Foot

_____ LF \$ _____
price in writing

2. F&I Erosion and Sedimentation Controls, complete. – Per Linear Foot

_____ LF \$ _____
price in writing

3. R&D ex. Asphalt and Base, complete. – Per Square Foot

_____ SF \$ _____
price in writing

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BIDDER: _____

4. R&D ex. Concrete and Base, complete. – Per Square Foot

_____ SF \$ _____
price in writing

5. R&D ex. Chain Link Fence, complete. – Per Linear Foot

_____ LF \$ _____
price in writing

6. R&D ex. Splashpad Water Features, Benches and Trench Drains, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

7. R&D ex. Splashpad Manifold; R&S Backflow Preventers, Vortex Controller and Power Box, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

8. R&D ex. Hot Water Heater, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

9. F&I Patch and Seal the corner between wall and floor inside the utility room of the facilities building, including the opening at the bottom of the wall, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

10. R&D ex. Catch Basin, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

11. R&D ex. Irrigation Cabinet; R&S Water Meter, Irrigation Controller, Power Supply, Backflow Preventer, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

12. R&D ex. Picnic Tables and Benches, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

13. R&D ex. Play Equipment, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

14. R&D Plastic Playground Edging, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

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BIDDER: _____

15. R&S ex. Pre-cast Concrete Curb, complete. – Per Linear Foot

_____ **LF** \$ _____
price in writing

16. F&I 4" Concrete Pavement and Base, complete. – Per Square Foot

_____ **SF** \$ _____
price in writing

17. F&I Concrete Pavement with Haunch and Base, complete. – Per Square Foot

_____ **SF** \$ _____
price in writing

18. F&I 4" Exposed Aggregate Concrete, complete. – Per Square Foot

_____ **SF** \$ _____
price in writing

19. F&I 3" Asphalt Pavement and Base, complete. – Per Square Foot

_____ **SF** \$ _____
price in writing

20. F&I Boulder Wall, complete. – Per Linear Foot

_____ **LF** \$ _____
price in writing

21. F&I 24-42"L x 24-36"W x 18-36"H Landscape Boulders as per plans, complete. – Per Each

_____ **EA** \$ _____
price in writing

22. D&I salvaged Pre-cast Concrete Curb, complete. – Per Linear Foot

_____ **LF** \$ _____
price in writing

23. D&I salvaged Granite Treads, complete. – Per Each

_____ **EA** \$ _____
price in writing

24. D&I salvaged Cobble, complete. – Per Square Foot

_____ **SF** \$ _____
price in writing

25. F&I Water Meter Enclosure on Concrete Pad, complete. – Per Each

_____ **EA** \$ _____
price in writing

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BIDDER: _____

26. F&I 2" Waterline for Splashpad and connect to ex. Water Service, complete. – Per Linear Foot

_____ **LF** \$ _____
price in writing

27. F&I 6" Perforated Sch. 40 PVC Pipe for Splashpad Infiltration Area, complete. – Per Linear Foot

_____ **LF** \$ _____
price in writing

28. F&I 6" Solid Sch. 40 PVC Pipe for Splashpad Infiltration Area and connect to Catch Basin, complete. – Per Linear Foot

_____ **LF** \$ _____
price in writing

29. F&I 6" PVC Pipe Risers with Atrium Grates for Splashpad Infiltration Area, complete. – Per Each

_____ **EA** \$ _____
price in writing

30. F&I 20" Area Drain, complete. – Per Each

_____ **EA** \$ _____
price in writing

31. F&I #6 Native Washed Stone for Infiltration Areas, complete. – Per Cubic Yard

_____ **CY** \$ _____
price in writing

32. F&I #2 Open Graded Washed Stone to Infiltration Areas, complete. – Per Cubic Yard

_____ **CY** \$ _____
price in writing

33. F&I Hydroseed Meadow Mix Seed, complete. – Per Square Foot

_____ **SF** \$ _____
price in writing

34. F&I Vortex Splashpad Activator, complete. – Per Each

_____ **EA** \$ _____
price in writing

35. D&I Vortex Aqua Dome, complete. – Per Each

_____ **EA** \$ _____
price in writing

36. F&I Vortex Spraylink Split, complete. – Per Each

_____ **EA** \$ _____
price in writing

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BIDDER: _____

37. F&I Vortex Spraylink Fountain, complete. – Per Each

_____ EA \$ _____
price in writing

38. F&I Vortex Spray Loop, complete. – Per Each

_____ EA \$ _____
price in writing

39. F&I Vortex Spraylink Tunnel, complete. – Per Each

_____ EA \$ _____
price in writing

40. F&I Vortex Spraylink Jet, complete. – Per Each

_____ EA \$ _____
price in writing

41. F&I Vortex Spraylink Bloom, complete. – Per Each

_____ EA \$ _____
price in writing

42. F&I Vortex Twinsplash, complete. – Per Each

_____ EA \$ _____
price in writing

43. F&I Vortex MaestroPRO Controller, complete. – Per Each

_____ EA \$ _____
price in writing

44. F&I Vortex MaestroPRO Power Box, complete. – Per Each

_____ EA \$ _____
price in writing

45. F&I medium Goric Half-Spheres in Splashpad, complete. – Per Each

_____ EA \$ _____
price in writing

46. F&I large Goric Half-Spheres in Splashpad, complete. – Per Each

_____ EA \$ _____
price in writing

47. D&I Kompan Mini Dome with Slide, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

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BIDDER: _____

48. D&I Kompan Three Bay, Four Belt and One Nest Swing Set, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

49. D&I Kompan Universal Carousel, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

50. D&I Kompan One Bay, Two Bucket Swing Set, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

51. F&I 3/4" Dynamic Crushed Stone Base for Synthetic Turf, complete. – Per Cubic Yard

_____ CY \$ _____
price in writing

52. F&I Synthetic Turf Surfacing with SBR Cushion Layer, complete. – Per Square Foot

_____ SF \$ _____
price in writing

53. D&I Berliner DNA Tower, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

54. F&I 8' TMR ADA Picnic Table surface mount, complete. – Per Each

_____ EA \$ _____
price in writing

55. F&I 6' TMR Picnic Table surface mount, complete. – Per Each

_____ EA \$ _____
price in writing

56. F&I 6' TMR Bench with Backrest surface mount, complete. – Per Each

_____ EA \$ _____
price in writing

57. F&I 6' TMR Bench with Backrest inground mount, complete. – Per Each

_____ EA \$ _____
price in writing

58. F&I 6' TMR Backless Bench surface mount, complete. – Per Each

_____ EA \$ _____
price in writing

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BIDDER: _____

59. F&I 6' TMR Backless Bench inground mount, complete. – Per Each

_____ EA \$ _____
price in writing

60. F&I 4' height Welded Wire Mesh Fence, complete. – Per Linear Foot

_____ LF \$ _____
price in writing

61. F&I 5' wide WWM Pedestrian Gate, complete. – Per Each

_____ EA \$ _____
price in writing

62. F&I 12'+ wide WWM Service Gate, complete. – Per Each

_____ EA \$ _____
price in writing

63. F&I 55gal Trash Receptacle with Insert and Domed Lid and Cable Attachment Kit on Concrete Pad, complete. – Per Each

_____ EA \$ _____
price in writing

64. F&I Loam, complete. – Per Cubic Yard

_____ CY \$ _____
price in writing

65. F&I Sandy Loam, complete. – Per Cubic Yard

_____ CY \$ _____
price in writing

70. F&I 8oz Non-Woven Filter Fabric, complete. – Per Square Foot

_____ SF \$ _____
price in writing

71. R&R Park Entry Sign and Pole in Concrete Footing, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

72. R&R Park Rules & Advisories Sign, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

73. R&S “Miguel Luna” Gateway Sign, complete. – Per Lump Sum

_____ LS \$ _____
price in writing

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BIDDER: _____

74. F&I Loam and Hydroseed Athletic Field, complete. – Per Square Foot

_____ SF \$ _____
price in writing

75. F&I Loam and Hydroseed All (other) Disturbed Turf Areas, complete. – Per Square Foot

_____ SF \$ _____
price in writing

76. F&I 2.5-3" cal. *Cornus kousa* – Asian Dogwood, complete. – Per Each

_____ EA \$ _____
price in writing

77. F&I #5 *Calycanthus raulstonii* 'Hartlage Wine' – Carolina Allspice, complete. – Per Each

_____ EA \$ _____
price in writing

78. F&I 4" *Carex pensylvanica* – Pennsylvania Sedge, complete. – Per Each

_____ EA \$ _____
price in writing

79. F&I #3 *Ilex glabra* 'Nigra' – Inkberry, complete. – Per Each

_____ EA \$ _____
price in writing

80. F&I #3 *Clethra alnifolia* 'Ruby Spice' – Summersweet, complete. – Per Each

_____ EA \$ _____
price in writing

81. F&I 30-36"L x 24-30"W x 18-30"H Flat-topped Boulders, complete. – Per Each

_____ EA \$ _____
price in writing

UNIT PRICES – ADD ALTS:

1. F&I Chain Link Dugout, with 4" Concrete Pad and Corrugated Metal Roof, complete – Per Each

_____ EA \$ _____
price in writing

2. F&I 6' Player's Dugout Bench surface mount, complete – Per Each

_____ EA \$ _____
price in writing

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BIDDER: _____

3. R&D ex. Infield Mix, complete – Per Cubic Yard

_____ CY \$ _____
price in writing

4. F&I 4" Infield Mix, complete – Per Cubic Yard

_____ CY \$ _____
price in writing

5. Strip and Remove Turf, complete – Per Square Foot

_____ SF \$ _____
price in writing

6. F&I Sod, complete – Per Square Foot

_____ SF \$ _____
price in writing

7. F&I 5' wide Chain Link Pedestrian Gate, complete – Per Each

_____ EA \$ _____
price in writing

8. F&I 6x6" (5.5x5.5" nom.) Pressure Treated, Ground Contact rated Timber, complete – Per Linear Foot

_____ LF \$ _____
price in writing

9. F&I #4 Rebar, complete – Per Linear Foot

_____ LF \$ _____
price in writing

10. F&I ¾" Process Gravel, complete – Per Cubic Yard

_____ CY \$ _____
price in writing

11. R&D Basketball Posts, Backboards and Rims, complete – Per Lump Sum

_____ LS \$ _____
price in writing

12. F&I Basketball Posts, Backboards and Rims, complete – Per Each Set

_____ EA \$ _____
price in writing

13. F&I 12' ht. Chain Link Fence, complete – Per Linear Foot

_____ LF \$ _____
price in writing

Please note that the list above is not intended to include all items required to complete the base bid scope of work but can and shall be used to adjust the contract prior to or after award – in the best interest of the City of Providence.

BIDDER: _____

14. F&I Electrical Conduit and Wiring in Trench, complete – Per Linear Foot

_____ LF \$ _____
price in writing

15. D&I salvaged Granite Treads with Gravel Base, complete. – Per Each

_____ EA \$ _____
price in writing

16. F&I Log Scramble Balance Beam, complete. – Per Each

_____ EA \$ _____
price in writing

17. F&I Log Scramble Log Stepper, complete. – Per Each

_____ EA \$ _____
price in writing

18. F&I #3 *Clethra alnifolia* ‘Crystalina’ – Summersweet, complete. – Per Each

_____ EA \$ _____
price in writing

19. F&I #3 *Hydrangea quercifolia* ‘Pee Wee’ – Oakleaf Hydrangea, complete. – Per Each

_____ EA \$ _____
price in writing

20. F&I #3 *Hydrangea serrata* ‘Tuff Stuff Ah-Ha®’ – Lacecap Hydrangea, complete. – Per Each

_____ EA \$ _____
price in writing

21. F&I 2.5-3" cal. *Nyssa sylvatica* ‘Wildfire’ – Tupelo, complete. – Per Each

_____ EA \$ _____
price in writing

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BIDDER: _____



**BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND**

ADDITIONAL BID DOCUMENTS

The complete set of Bid Documents includes the pages above & the following:

- **PREVAILING WAGE DECISION**
- **SAMPLE CONTRACT**
- **TECHNICAL SPECIFICATIONS:**
 - **010000 GENERAL REQUIREMENTS**
 - **015639 TEMPORARY TREE AND PLANT PROTECTION**
 - **024119 SELECTIVE DEMOLITION**
 - **033000 CAST-IN-PLACE CONCRETE**
 - **116800 PLAY FIELD EQUIPMENT AND STRUCTURES**
 - **116833 ATHLETIC FIELD EQUIPMENT**
 - **312000 EARTH MOVING**
 - **312213 ROUGH GRADING**
 - **312316.13 TRENCHING**
 - **312500 EROSION AND SEDIMENTATION CONTROLS**
 - **321216 ASPHALT PAVING**
 - **321313 CONCRETE PAVING**
 - **323113 CHAIN LINK FENCES AND GATES**
 - **323116.10 ORNAMENTAL WELDED WIRE FENCES AND GATES**
 - **323300 SITE FURNISHINGS**
 - **329200 TURF AND GRASSES**
 - **329300 PLANTS**
 - **331413 PUBLIC WATER UTILITY DISTRIBUTION PIPING**
- **ATTACHMENT A: KOMPAN MINI DOME WITH SLIDE (CRP810201-0903)**
 - **FOOTING PLAN AND DETAILS**
- **ATTACHMENT B: BERLINER DNA TOWER (L.03.01)**
 - **FOOTING PLAN AND DETAILS**
- **DRAWINGS:**
 - **L-1 COVER**
 - **L-2 EXISTING CONDITIONS PLAN**
 - **L-3 DEMOLITION PLAN**
 - **L-4.1 GRADING & UTILITIES PLAN**
 - **L-4.2 GRADING, UTILITIES & IRRIGATION PLAN**
 - **L-5.1 MATERIALS PLAN**
 - **L-5.2 MATERIALS PLAN**
 - **L-6.1 LAYOUT PLAN**
 - **L-6.2 LAYOUT PLAN**
 - **L-7 SPLASHPAD ENLARGEMENTS AND DETAILS**
 - **L-8 PLANTING PLAN**
 - **L-9 BASKETBALL COURT RENOVATIONS**
 - **L-10 CONSTRUCTION DETAILS**
 - **L-11 CONSTRUCTION DETAILS**
 - **L-12 CONSTRUCTION DETAILS**
 - **L-13 CONSTRUCTION DETAILS**

- **L-14 CONSTRUCTION DETAILS**
- **L-15 CONSTRUCTION DETAILS**
- **L-16 CONSTRUCTION DETAILS**
- **PE-000 VORTEX PLUMBING & ELECTRICAL COVER SHEET**
- **PE-001 VORTEX PLUMBING & ELECTRICAL LAYOUT**
- **E-003 VORTEX BONDING LAYOUT**

ADDITIONAL INFORMATION REQUIRED WITH BID:

- Qualifications to Perform Work – See Form Below for Information Required
- Addenda (If Any) - Must Be Acknowledged on Bid Form (Page 14)
- Product Information for Items Submitted as ‘Or Equal’ to Specified Materials

PROVISIONS OF THIS PROJECT:

- Upon the Issuance of the Award from the Board of Contract – the City shall issue a Contract to be executed by the City and the vendor incorporating the bid specifications. All Provisions of the Specifications are binding.
- Any Permits Required by the City of Providence and/or State of Rhode Island Shall be Obtained by the Vendor – Permit Fees by the City of Providence Shall be Waived – the State ADA Fee Must be Paid
- The Davis Bacon Act Applies (HUD Projects) – Prevailing Wages Must Be Paid for On Site Hours – On-Site Interviews will be Conducted During the Project – Employees Shall be Advised of the Prevailing Wage Rates Prior to Mobilization on Site
- Certified payrolls Must be Submitted With Pay Requests Including Monthly Utilizations Form
- Performance and Payment Bonds (If Required) Must be Submitted within 10 Days of Award or Bid Bond Will be Forfeited
- An Insurance Certificate Shall be Submitted to the City Within 10 Days of Award
- A Copy of the Vendors Contractor’s License Must be Submitted within 10 Days of Award
- All On-Site Personnel Shall be Licensed (If Required) and Shall have Proof of All Licenses Required by the State of Rhode Island to Perform the Work Required
- Pay Requests Must be Submitted on Approved AIA Billing Documents (City will Provide if Needed)
- All Subcontractors Shall be Listed on the Bid Form – All Insurance & Payroll Requirements Apply
 - General Contractor Shall be the Insurance Certificate Holder and the City Shall be Named as ‘Additionally Insured’ with Respect to Liability Insurance
- A Submittal Log Must be Submitted within 10 Days of Award

CLOSE OUT DOCUMENTS:

- Prior to Final Payment the Vendor Shall Provide the Following:
 - Copies of Permits Signed off and Approved (If Any)
 - Operating Manuals and Warranties Shall Be Transferred and/or Delivered
 - Full and Completed As-Built Drawings Shall be Submitted for Approval
 - Training Shall be Provided to City Personnel (If Required)
 - Certification by Manufactures Representative (If Required)

QUALIFICATIONS:

Qualifications will be evaluated on the basis of similar project experience for:

- a. Completion of at least 3 similar projects within the past five years.



PROVIDENCE, RI

IMPROVEMENTS AT MIGUEL LUNA PARK

HONORABLE
BRETT P. SMILEY
MAYOR

WENDY NILSSON
SUPERINTENDENT OF PARKS

JUAN PICHARDO
CITY COUNCILOR

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DEMOLITION PLAN GENERAL NOTES

1.

ALL SITE PREPARATION NECESSARY TO COMPLETE THIS PROJECT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH PROVIDENCE PARKS DEPARTMENT STAFF TO DEVELOP A SUITABLE DEMOLITION PLAN, WHICH WILL MINIMIZE PARK DISTURBANCE AND ALLOW ALL FACILITIES TO REMAIN IN OPERATION DURING THE ENTIRETY OF CONSTRUCTION.
3.

UNLESS OTHERWISE NOTED, THE CONTRACTOR IS RESPONSIBLE FOR THE RELOCATION, DEMOLITION, REMOVAL AND DISPOSAL, IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL EXISTING SITE ELEMENTS AND STRUCTURES INCLUDING BUT NOT LIMITED TO BITUMINOUS CONCRETE, CEMENT CONCRETE, GRAVEL, CURBS, WALKWAYS, SIDEWALKS, BERMS, FENCES, BOLLARDS, POSTS, PLANTING BEDS, TREES, SHRUBS, UTILITIES, DRAINAGE STRUCTURES AND ALL OTHER STRUCTURES SHOWN WITHIN THE LIMITS, AND WHERE NEEDED, TO ALLOW FOR NEW CONSTRUCTION. ALL ELEMENTS TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER SPECIFICATIONS.
4.

THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING OF THE DEBRIS IN A PROPER AND LEGAL MANNER.
5.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF VARIOUS UTILITY COMPANIES, AND WHEREVER POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY IN THE CITY, AND "DIGSAFE" (1-800-344-7233) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK IN PREVIOUSLY UNALTERED AREAS TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESOLVE CONFLICTS BETWEEN THE PROPOSED UTILITIES AND FIELD-LOCATED UTILITIES AND SHALL REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT IMMEDIATELY. THE OWNER ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED, INCOMPLETELY OR INACCURATELY SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCURATE RECORDS OF THE LOCATION AND ELEVATION OF ALL WORK INSTALLED AND EXISTING UTILITIES FOUND DURING CONSTRUCTION FOR THE PREPARATION OF THE AS-BUILT PLAN.
6.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EXISTING UTILITIES IN WORKING ORDER AND FREE FROM DAMAGE DURING THE ENTIRE DURATION OF THE PROJECT. ALL COST RELATED TO THE REPAIR OF UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINE OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
7.

THE CONTRACTOR SHALL MAINTAIN CONTINUOUS ACCESS AND OPERATION FOR SURROUNDING FACILITIES, AS DEEMED BY THE OWNER, AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
8.

PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES AND TREE PROTECTIVE MEASURES ARE TO BE INSTALLED.

EROSION & SEDIMENT CONTROL NOTES

1.

THE SITE CONSTRUCTION FOREMAN SHALL BE DESIGNATED AS THE ON-SITE PERSONNEL RESPONSIBLE FOR THE DAILY INSPECTION AND MAINTENANCE OF ALL ESC MEASURES AND SHALL IMPLEMENT ALL NECESSARY MEASURES TO CONTROL EROSION AND PREVENT SEDIMENT FROM LEAVING THE SITE.
2.

THE CONTRACTOR SHALL INSTALL ALL ESC MEASURES AS SHOWN ON THE DESIGN PLANS AND AS DETERMINED NECESSARY IN THE FIELD BY OWNER'S REPRESENTATIVE BEFORE ANY CONSTRUCTION ACTIVITIES ARE TO BEGIN. THESE MEASURES SHALL BE CHECKED, MAINTAINED/REPLACED AS NECESSARY DURING THE ENTIRE CONSTRUCTION PERIOD OF THE PROJECT. SUCH MEASURES SHALL REPRESENT THE LIMIT OF WORK. WORKERS SHALL BE INFORMED THAT NO CONSTRUCTION ACTIVITY IS TO OCCUR BEYOND THE LIMIT OF WORK AT ANY TIME THROUGH THE CONSTRUCTION PERIOD.
3.

A MINIMUM SURPLUS OF 100 FEET OF EROSION CONTROL BARRIER (SILT FENCE&/OR SILT SOCK) SHALL BE STOCKPILED ONSITE AT ALL TIMES.
4.

THE CONTRACTOR SHALL PROTECT THE ADJACENT AREA FROM SEDIMENTATION DURING PROJECT CONSTRUCTION OPERATIONS.
5.

A CONSTRUCTION EXIT SHALL BE CONSTRUCTED TO SHED DIRT FROM CONSTRUCTION VEHICLE TIRES. THE CONSTRUCTION EXIT SHALL BE REPLACED/CLEANED AS NEEDED TO MAINTAIN ITS EFFECTIVENESS.
6.

THE LIMIT OF ALL CLEARING, GRADING AND DISTURBANCES SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. THE CONTRACTOR SHALL PHASE THE SITE WORK IN A MANNER TO MINIMIZE AREAS OF EXPOSED SOIL.
7.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MONITOR LOCAL WEATHER REPORTS DURING CONSTRUCTION AND PRIOR TO SCHEDULING EARTHMOVING OR OTHER CONSTRUCTION ACTIVITIES WHICH WILL LEAVE LARGE DISTURBED AREAS UNSTABILIZED. IF INCLEMENT WEATHER IS PREDICTED, THE CONTRACTOR SHALL USE THEIR BEST PROFESSIONAL JUDGEMENT AND SHALL BE RESPONSIBLE FOR ENSURING THAT NECESSARY EROSION CONTROL DEVICES ARE INSTALLED AND FUNCTIONING PROPERLY TO MINIMIZE EROSION FROM ANY IMPENDING WEATHER EVENTS.
8.

SOIL ESC MEASURES SHALL BE INSPECTED AND MAINTAINED ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT OF 0.25 INCH OR GREATER DURING CONSTRUCTION TO ENSURE THAT THE ESC MEASURES ARE INTACT AND FUNCTIONING PROPERLY. IDENTIFIED DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY NO LATER THAN 24 HOURS AFTER IDENTIFICATION.

9.

SOIL STOCKPILES LEFT OVERNIGHT SHALL BE SURROUNDED ON THEIR PERIMETERS WITH SILT SOCK.
10.

DISTURBED AREAS AND SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. THE CONTRACTOR SHOULD PROVIDE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY AREAS HAVING A SLOPE GREATER THAN 3:1 SHALL BE REINFORCED WITH EROSION BLANKETS OR APPROVED EQUAL UNTIL THE SITE IS PROPERLY STABILIZED. TEMPORARY SWALES MAY ALSO BE REQUIRED IF DETERMINED NECESSARY IN THE FIELD BY OWNER'S REPRESENTATIVE.
11.

THE CONTRACTOR SHALL CONTAIN ALL SEDIMENT ONSITE. ALL EXITS FROM THE SITE WILL BE SWEEP AS NECESSARY INCLUDING ANY SEDIMENT TRACKING. PAVED AREAS SHALL BE SWEEP AS NEEDED TO REMOVE SEDIMENT AND POTENTIAL POLLUTANTS WHICH MAY ACCUMULATE DURING SITE WORK.
12.

ACCUMULATED SEDIMENT SHALL BE REMOVED FROM ALL ESC MEASURES AND DISPOSED OF IN A PRE-APPROVED LOCATION BY THE CONTRACTOR.
13.

DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS NECESSARY.

GENERAL CONSTRUCTION NOTES

1.

INFORMATION FOR THE EXISTING CONDITIONS PLAN WAS OBTAINED FROM GIS, AERIAL IMAGERY, AND FIELD OBSERVATION. ALL EXISTING CONDITIONS ARE TO BE CONSIDERED APPROXIMATE. THIS IS NOT A REGISTERED SURVEY.
2.

ANY ERRORS OR DISCREPANCIES ON THE DRAWINGS, SHOP DRAWINGS, AND DETAILS ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE BEFORE THE WORK HAS COMMENCED.
3.

THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL LOCATIONS AND DIMENSIONS. DISCREPANCIES BETWEEN LAYOUT DIMENSIONS ON PLANS AND ACTUAL MEASUREMENTS IN FIELD ARE TO BE REPORTED TO THE OWNER'S REPRESENTATIVE BEFORE CONSTRUCTION BEGINS.
4.

THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO DEMOLITION OR INSTALLATION OF ANY PORTION OF THE SITE WORK .
5.

THE CONTRACTOR SHALL STAKE OUT ALL LAYOUTS OF PROPOSED WORK FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
6.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS DURING CONSTRUCTION INCLUDING BENCHMARK LOCATIONS AND ELEVATIONS AT CRITICAL AREAS. THE LOCATION OF ALL CONTROL POINTS AND BENCHMARKS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.
7.

UNLESS OTHERWISE SPECIFIED ON THE PLANS AND DETAILS/SPECIFICATIONS, ALL SITE CONSTRUCTION MATERIALS AND METHODOLOGIES ARE TO CONFORM TO THE MOST RECENT VERSION OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2015 EDITION).
8.

CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS REGARDING NOISE, VIBRATION, DUST, SEDIMENTATION CONTAINMENT, AND TRENCH WORK.
9.

THE CONTRACTOR SHALL RESTORE ALL SURFACES EQUAL TO THEIR ORIGINAL CONDITION AFTER CONSTRUCTION IS COMPLETE. AREAS NOT DISTURBED BY CONSTRUCTION SHALL BE LEFT NATURAL. THE CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO SHRUBS, TREES, AND OTHER LANDSCAPING OR NATURAL FEATURES, WHEREAS THE PLANS DO NOT SHOW ALL LANDSCAPING FEATURES. EXISTING CONDITIONS MUST BE VERIFIED BY THE CONTRACTOR IN ADVANCE OF THE WORK.
10.

ALL UNPAVED AREAS DISTURBED BY THE WORK SHALL HAVE A MINIMUM OF 4-INCHES OF LOAM INSTALLED AND SEEDED WITH GRASS SEED AS SHOWN ON THE PLAN AND/OR DIRECTED BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING ANY LOAM AND SEEDED AREAS UNTIL LAWN GROWTH IS ESTABLISHED AND APPROVED BY THE LANDSCAPE ARCHITECT AND/OR OWNER'S REPRESENTATIVE.
11.

THE CONTRACTOR SHALL REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEAN UP AND REMOVE ANY LOOSE CONSTRUCTION DEBRIS BEFORE IT LEAVES THE SITE. ALL DEMOLITION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE SITE TO AN APPROVED DUMP SITE. ALL TRUCKS LEAVING THE SITE SHALL BE COVERED.
12.

CONCRETE TRUCKS SHALL NOT BE WASHED ONSITE. ANY CEMENT OR CONCRETE DEBRIS LEFT IN THE DISTURBED AREA SHALL BE REMOVED BY HAND AT THE CONTRACTOR'S EXPENSE.
13.

IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED, THE CONTRACTOR IS TO IMMEDIATELY CONTACT AND COORDINATE WITH THE LANDSCAPE ARCHITECT AND THE OWNER'S REPRESENTATIVE.
14.

AT THE END OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND SURPLUS MATERIAL FROM THE SITE. A THOROUGH INSPECTION OF THE WORK PERIMETER IS TO BE MADE AND ALL DISCARDED MATERIALS, BLOWN OR WATER CARRIED DEBRIS, SHALL BE COLLECTED AND REMOVED FROM THE SITE.
15.

THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SITE FOR THE SAFETY OF THE GENERAL PUBLIC AND TO PROTECT PROPERTY AGAINST VANDALISM AND THEFT.
16.

THE CONTRACTOR MUST OBTAIN ALL REQUIRED CITY, STATE AND FEDERAL PERMITS.
17.

THE PROVIDENCE PARKS DEPARTMENT ASSUMES NO RESPONSIBILITY IF THE WORK IS NOT INSTALLED AS PER THE PLANS OR IF FIELD CHANGES ARE MADE WITHOUT THE KNOWLEDGE AND APPROVAL OF THE OWNER'S REPRESENTATIVE.

LAYOUT NOTES

1.

ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
2.

STORAGE AREAS FOR CONTRACTOR'S EQUIPMENT AND MATERIALS SHALL BE ON AND WITHIN LIMITS OF WORK AS SHOWN ON THE PLANS AND AS APPROVED BY THE OWNER'S REPRESENTATIVE.
3.

CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES IN THE PLAN TO THE OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
4.

ALL LAYOUTS FOR WALKS AND PATHS SHALL BE ADEQUATELY STAKED BY THE CONTRACTOR AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
5.

ALL PLACEMENT OF SITE FURNISHINGS, BOULDERS, PLAY STRUCTURES AND OUTDOOR FITNESS EQUIPMENT TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

PLANTING NOTES

1.

ALL NEW PLANT MATERIALS SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
2.

ALL NEW PLANTS TO BE BALLED AND BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON THE PLANT LIST.
3.

THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
4.

ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
5.

ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
6.

CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
7.

STAKE LOCATIONS OF ALL PROPOSED PLANTING FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING. INDIVIDUAL STAKES SHALL BE PLACED FOR TREES AND SHRUBS. EDGE OF PLANTING BEDS SHALL BE PAINTED. NOTIFY LANDSCAPE ARCHITECT 24 HOURS PRIOR TO DESIRED APPROVAL.
8.

ALL NEW PLANTS SHALL BE SUPPLIED AND INSTALLED DURING THE PERIODS OF APRIL 1 - JUNE 15 AND/OR SEPTEMBER 1 - NOVEMBER 15 PER SPECIFICATIONS.
9.

PREPARE ALL INDIVIDUAL TREE PITS AND SHRUB PLANTING BEDS TO A MINIMUM DEPTH OF EIGHTEEN INCHES (18") WITH SPECIFIED PLANTING MIX: 50% SCREENED TOPSOIL, 40% EXISTING SOIL AND 10% COMPOST. BLEND COMPOST INTO TOP 4" OF SOIL. PLANTING MIX SHALL BE FREE OF LUMPS, STONES, PLANTS, ROOTS, AND OTHER FOREIGN MATTER.
10.

ALL SHRUB BEDS AND INDIVIDUAL TREE PITS SHALL RECEIVE THREE (3) INCHES OF BARK MULCH PER SPECIFICATIONS. PERENNIAL AND GROUNDCOVER BEDS SHALL RECEIVE TWO INCHES (2"). PROVIDE LANDSCAPE ARCHITECT WITH SAMPLE FOR APPROVAL.
11.

ALL BURLAP, TWINE AND WIRE SHALL BE COMPLETELY REMOVED OR CUT AWAY AT TIME OF INSTALLATION.
12.

PRUNE TREES IN ACCORDANCE WITH THE SPECIFICATIONS.
13.

PLANT WARRANTY SHALL BE FOR ONE FULL GROWING SEASON FROM THE TIME OF SUBSTANTIAL COMPLETION.
14.

LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED, STOLEN, DEAD, DECLINING OR LOST MATERIAL UNTIL COMPLETION OF MAINTENANCE PERIODS OR GUARANTEE PERIODS.
15.

IF NO IRRIGATION SYSTEM IS PLANNED, AN APPROPRIATE WATERING SCHEDULE SHALL BE ESTABLISHED BY THE LANDSCAPE CONTRACTOR FOR ALL PLANT MATERIAL BASED UPON PLANT SPECIES REQUIREMENTS AND PROVIDED IN WRITING TO THE LANDSCAPE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL. THE APPROVED SCHEDULE SHOULD BE FOLLOWED UNTIL COMPLETION OF PLANT MAINTENANCE PERIODS OR WARRANTY PERIODS.
16.

ALL VEGETATION AND DEBRIS SHALL BE REMOVED FROM PROPOSED PLANTING AREAS PRIOR TO PLANTING AND BACKFILLING. CONTRACTOR SHALL REMOVE ALL WEEDS AND DEBRIS FROM SITE AS WORK PROGRESSES AND UNTIL COMPLETION OF PLANT MAINTENANCE PERIODS OR WARRANTY PERIODS.
17.

ALL AREAS TO BE SEEDED OR SODDED SHALL RECEIVE SIX INCHES (6") OF LOAM, MEASURED AFTER INSTALLATION, PRIOR TO SEEDING.
18.

ALL EXISTING LAWN AREAS DESIGNED TO REMAIN SHALL BE AERATED, FERTILIZED AND OVERSEEDED, AS DIRECTED BY THE LANDSCAPE ARCHITECT.
19.

IN ADDITION TO LOCATIONS DEFINED FOR SEED ON THE PLANTING PLAN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING ANY DISTURBED AREAS.
20.

A DETAILED PLANT MAINTENANCE MANUAL SHALL BE ESTABLISHED BY THE LANDSCAPE CONTRACTOR FOR ALL PLANT MATERIAL BASED UPON PLANT SPECIES REQUIREMENTS AND PROVIDED IN WRITING TO THE LANDSCAPE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL. INFORMATION THEREIN SHALL INCLUDE REQUIRED PRUNING SCHEDULE, FERTILIZING AND PROPOSED INTEGRATED PEST MANAGEMENT (IPM) AS NECESSARY. THE APPROVED MAINTENANCE SHOULD BE FOLLOWED UNTIL COMPLETION OF PLANT MAINTENANCE PERIODS OR WARRANTY PERIODS.
21.

LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING CLOSE COORDINATION WITH OWNER, GENERAL CONTRACTOR, RELATED SUBCONTRACTORS, LANDSCAPE ARCHITECT, AND ALL SITE WORK RELATED ITEMS.



PROVIDENCE
PARKS DEPARTMENT
DALRYMPLE BOATHOUSE
ROGER WILLIAMS PARK
PROVIDENCE, RI 02905



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STAMP

PROJECT:

Site Improvements at
Miguel Luna Park

110 Sackett St
Providence, RI

REVISIONS:

#	Date	Issued For:
1	4/8/2025	Addendum #2
-	-	-

NORTH ARROW

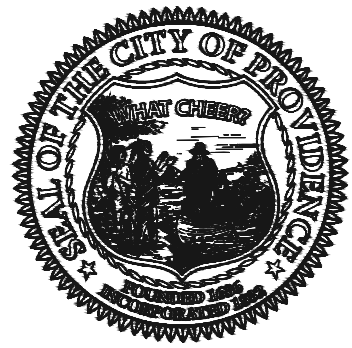
SCALE

DRAWING INFO

DATE ISSUED: 03/24/25
PROJECT NO: MIGU.22.01
DRAWN BY: AN, II, SG
CHECKED BY: MG

SHEET TITLE

Cover Sheet



**PROVIDENCE
PARKS DEPARTMENT**
DAIRYMPLE BOATHOUSE
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PROVIDENCE, RI 02905



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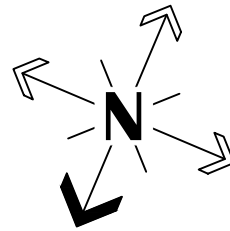
**Site Improvements at
Miguel Luna Park**

**110 Sackett St
Providence, RI**

REVISIONS:

#	Date	Issued For:
2	4/8/2025	Addendum #2

NORTH ARROW



SCALE

0 10' 20' 40'
SCALE: 1"=20'

DRAWING INFO

DATE ISSUED: 03/24/25
PROJECT NO: MIGU.22.01
DRAWN BY: AN, II, SG
CHECKED BY: MG

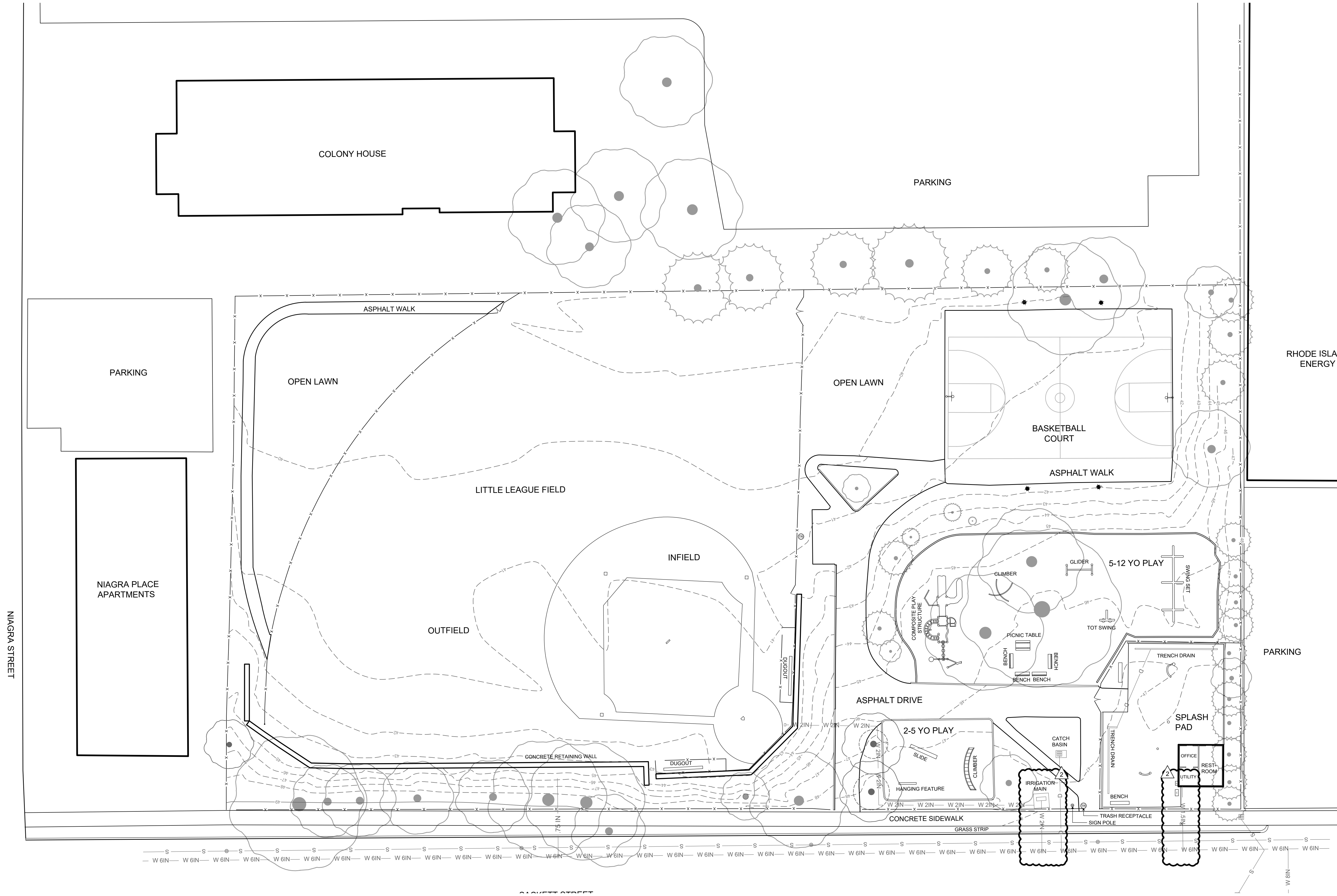
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**Existing
Conditions**

L-2

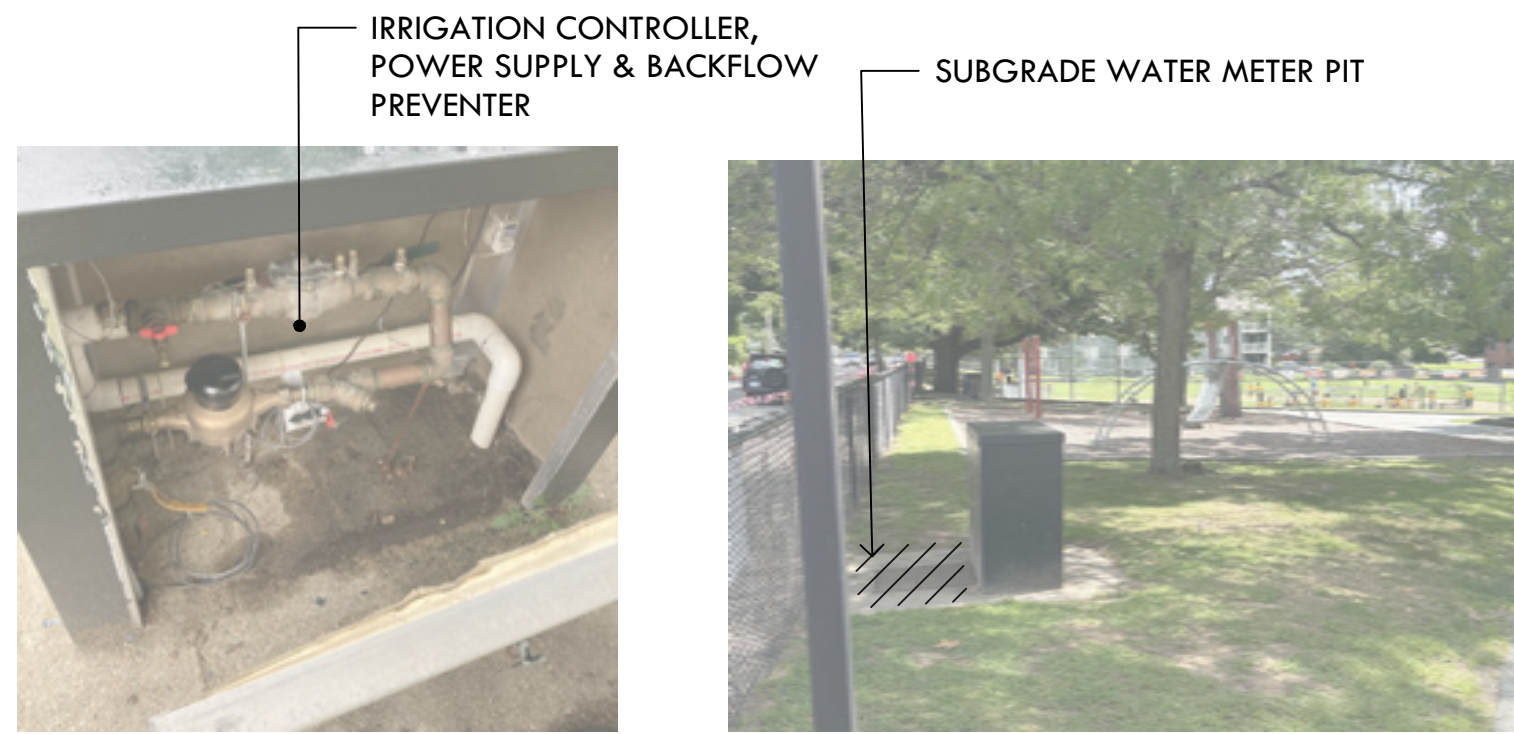
2 OF 22

FILE: MIGU.22.01-PLANS.dwg



EXISTING PLAN LEGEND

	EX. AMMENITIES		EX. TREE		EX. ELECTRICAL ENCLOSURE
	EX. CHAIN LINK FENCE		EX. CONTOUR		EX. WATER ENCLOSURE
	EX. LIGHT POST		EX. WATER LINES		EX. CURB STOP
	EX. CATCH BASIN		SEWER LINE		
	EX. MANHOLE		DISTRIBUTION LINE		
	EX. ELECTRICAL POLE		DRAIN		



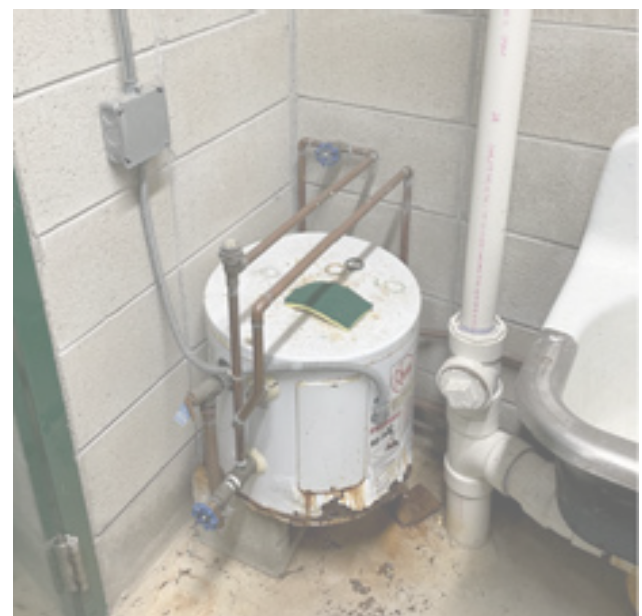
A IRRIGATION CABINET INTERIOR
B IRRIGATION CABINET EXTERIOR



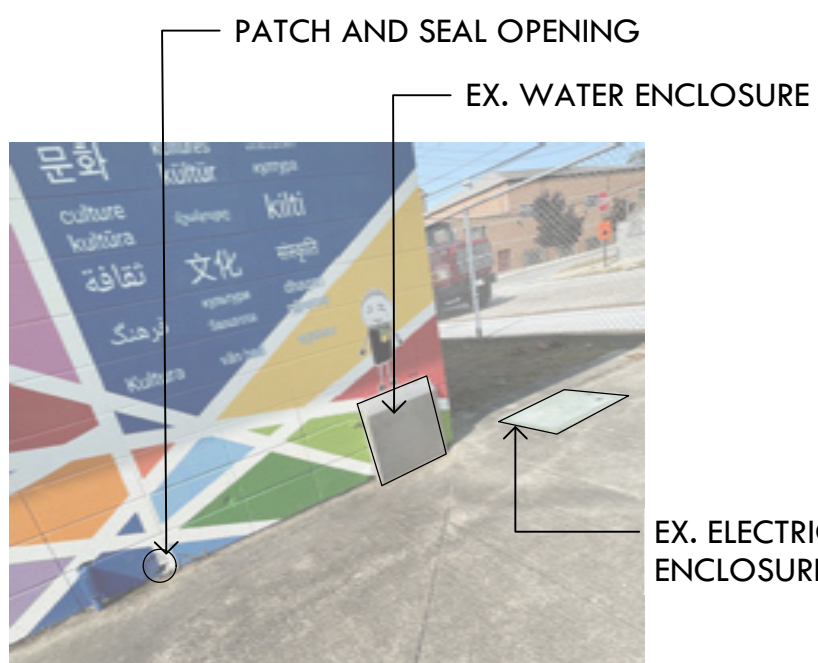
C WATER METER PIT INTERIOR



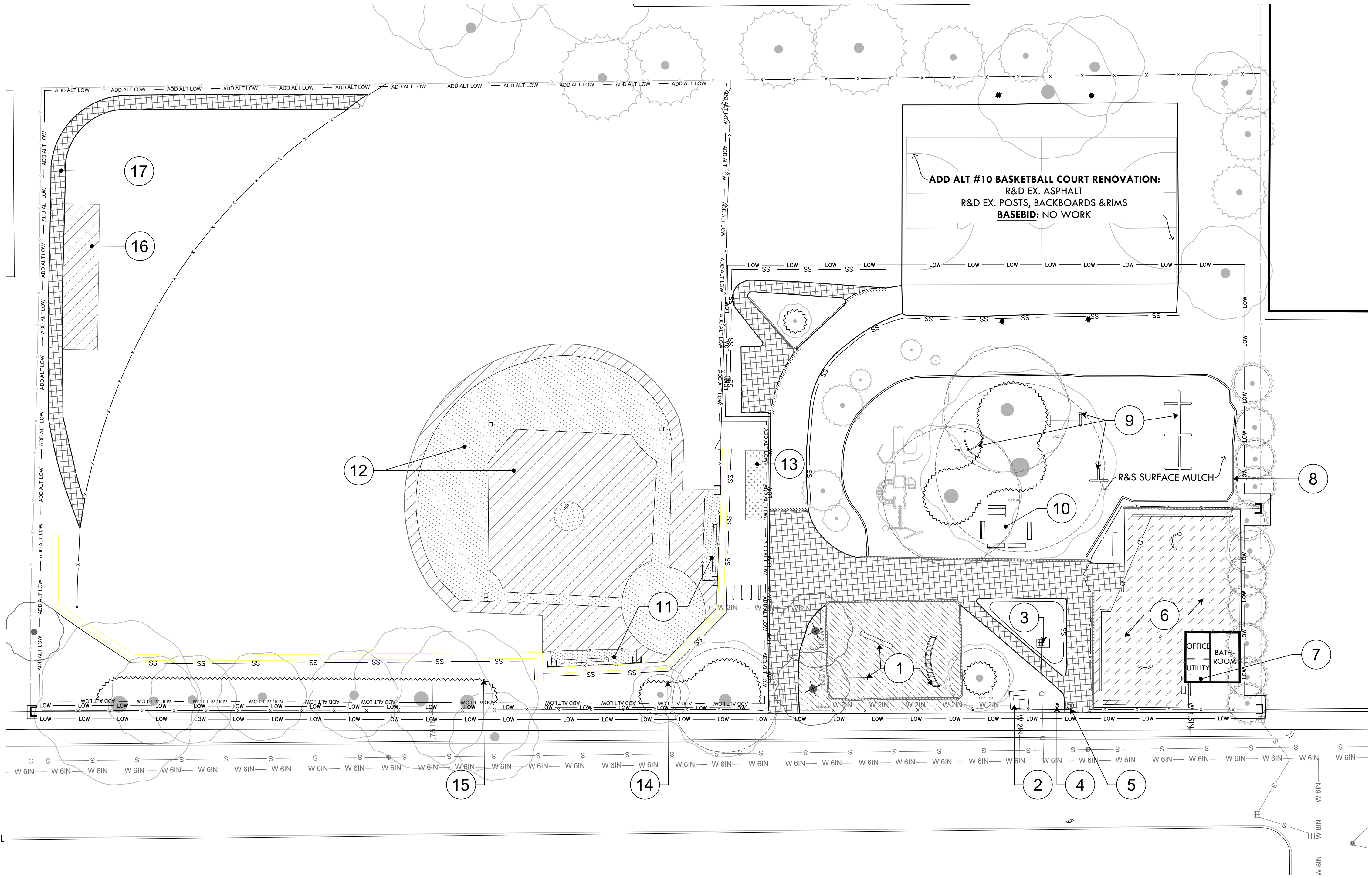
D FACILITIES BUILDING INTERIOR:
EX MANIFOLD, BACK FLOW VALVES
& CONTROLLER
E FACILITIES BUILDING INTERIOR:
VORTEX CONTROLLER & POWER ADAPTER



F FACILITIES BUILDING INTERIOR:
HOT WATER HEATER



G FACILITIES BUILDING:
NORTHEAST EXTERIOR



DEMOLITION PLAN LEGEND

— LOW — LOW —	LIMIT OF WORK		EX. CATCH BASIN		R&D EX. ASPHALT AND GRAVEL BASE STRIP INFILLED MIX TO 2" STRIP TURF & TOPSOIL TO A DEPTH 4" BELOW FINISHED GRADE
— ADD ALT LOW —	LIMIT OF WORK: ADD ALT	— W 6IN — W 6IN —	WATER LINES		R&D CONCRETE STRIP TURF & TOPSOIL TO 12" DEPTH
	SAWCUT ASPHALT	— S — S —	SEWER LINE		R&S PRE-CAST CONCRETE CURB
— X — X —	CHAIN LINK FENCE	— 1.5 IN —	DISTRIBUTION LINES		REMOVE MATERIAL TO 12" DEPTH, SALVAGE EWF ON SITE TO REUSE AS MULCH, NOT FOR USE AS SAFETY SURFACING
— X — X —	LIMIT OF FENCE REMOVAL, TYP.	— .75 IN —			
— SS —	SILT SOCK	— D — D —	DRAIN		
	EXISTING TREE TO BE REMOVED, BY OWNER		CRITICAL ROOT ZONE		
	TREE PROTECTION FENCE		R&D REMOVE AND DISPOSE		
	EX. LIGHT POST		R&S REMOVE AND STOCKPILE		
	EX. POWER POLE				

DEMOLITION PLAN SPECIAL NOTES

- R&D PLAY EQUIPMENT
- R&D IRRIGATION CABINET R&S WATER METER, IRRIGATION CONTROLLER, POWER SUPPLY & BACKFLOW PREVENTER
- R&D CATCH BASIN & FILL TO PROPOSED SUBGRADE WITH COMPACTED #6 STONE
- R&S MIGUEL LUNA GATEWAY SIGN & POLE
- R&S TRASH DRUMS
- R&D ALL SPLASH PAD FEATURES, TRENCH DRAINS, & BENCHES
- R&D EX. MANIFOLD PIPING & CONTROLLER -R&S BACKFLOW VALVES
- R&S VORTEX CONTROLLER & POWER ADAPTER
- R&D HOT WATER HEATER
- SEAL AND PATCH EX. OPENINGS INTERIOR WALL AND EXTERIOR PIPE
- R&D PLASTIC EDGING
- R&D PLAY EQUIPMENT, HAND REMOVAL TO PROTECT ROOTS
- R&D BENCHES AND PICNIC TABLE

DEMOLITION PLAN ADD ALT NOTES:

- ADD ALT #1 DUGOUTS:**
-R&D DUGOUT CL FENCE AND POSTS
-R&D DUGOUT BENCHES
-STRIP MATERIAL TO 12" DEPTH
BASE BID: NO WORK
- ADD ALT #2 BALL FIELD INFIELD:**
-R&D INFIELD MIX TO 4" DEPTH
-STRIP TURF & TOPSOIL TO A DEPTH OF 4" BELOW FINISHED GRADE
BASE BID: NO WORK
- ADD ALT #3 BASEBALL BLEACHER:**
-STRIP TURF & TOPSOIL TO 6" DEPTH
BASE BID: NO WORK
- ADD ALT #5 EASTERN TIMBER RETAINING WALL:**
F&I TREE PROTECTION
BASE BID: NO WORK
- ADD ALT #5 WESTERN TIMBER RETAINING WALL:**
F&I TREE PROTECTION
BASE BID: NO WORK
- ADD ALT #4 BATTING ENCLOSURE:**
-STRIP TURF & TOPSOIL TO 12" DEPTH
BASE BID: NO WORK
- ADD ALT #8 ASPHALT WALK:**
R&D ASPHALT WALK AND BASE
BASE BID: NO WORK



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PROJECT:

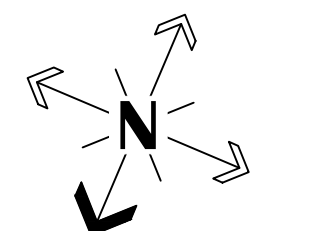
**Site Improvements at
Miguel Luna Park**

**110 Sackett St
Providence, RI**

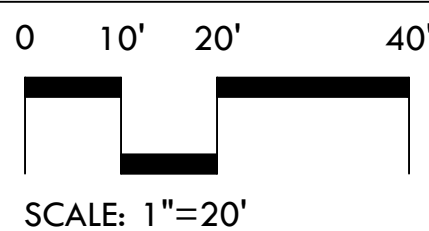
REVISIONS:

#	Date	Issued For:
2	4/8/2025	Addendum #2

NORTH ARROW



SCALE



DRAWING INFO

DATE ISSUED: 03/24/25
PROJECT NO: MIGU.22.01
DRAWN BY: AN, II, SG
CHECKED BY: MG

SHEET TITLE

Demolition Plan

L-3

3 OF 22

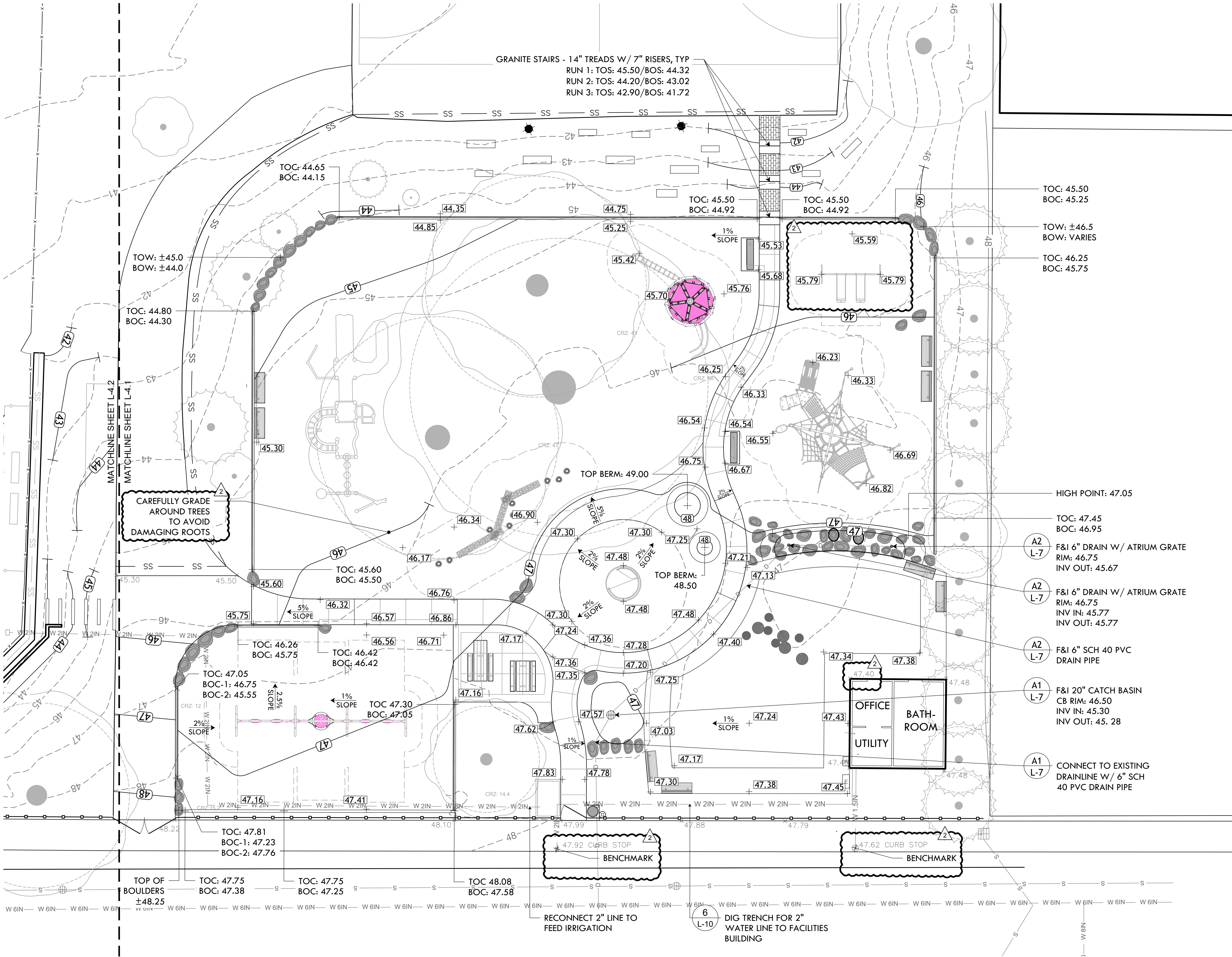
FILE: MIGU.22.01-PLANS.dwg

GRADING LEGEND

±97.96	EXISTING GRADE
+97.83	PROPOSED GRADE
-98	EXISTING CONTOUR
-99	PROPOSED CONTOUR

UTILITIES LEGEND

W 2IN	2" WATER MAIN LINE
W 1.5IN	1.5" WATER LINE
S	SEWER LINE
D	DRAIN LINE
	CATCH BASIN



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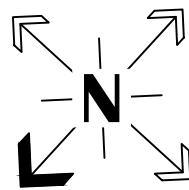
**Site Improvements at
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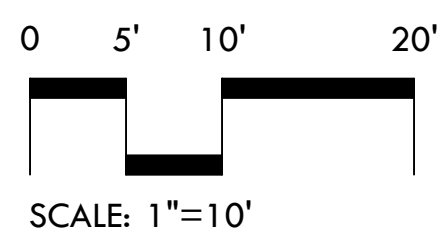
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NORTH ARROW



SCALE



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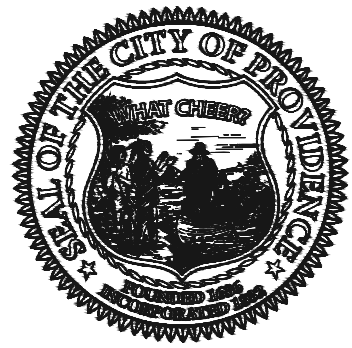
DATE ISSUED: **03/24/25**
PROJECT NO: **MIGU.22.01**
DRAWN BY: **AN, II, SG**
CHECKED BY: **MG**

SHEET TITLE

**Grading &
Utilities Plan**

L-4.1

4 OF 22



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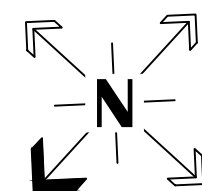
**Site Improvements at
Miguel Luna Park**

**110 Sackett St
Providence, RI**

REVISIONS:

#	Date	Issued For:
2	4/8/2025	Addendum #2

NORTH ARROW



SCALE

0 5' 10' 20'
SCALE: 1"=10'

DRAWING INFO

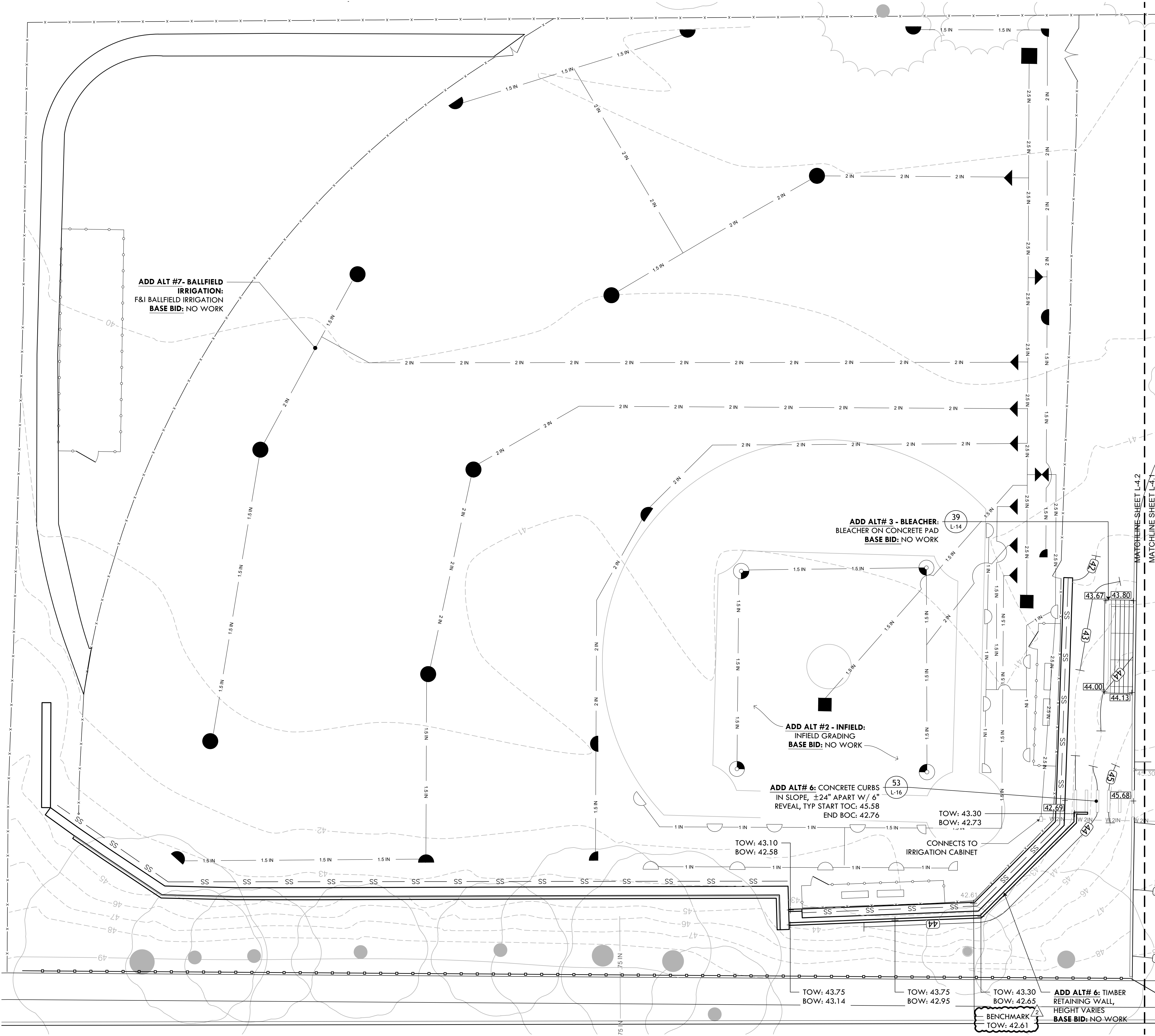
DATE ISSUED: 03/24/25
PROJECT NO: MIGU.22.01
DRAWN BY: AN, II, SG
CHECKED BY: MG

SHEET TITLE

**Grading, Utilities
& Irrigation Plan**

L-4.2

5 OF 22



MATERIALS PLAN LEGEND

LOW

LIMIT OF WORK

X

5'H CHAIN LINK (CL) MESH

5'W CL GATE

4' WELDED WIRE MESH (WWM) FENCE

12' CL FENCE & SERVICE GATE

X

LIMITS OF FENCE WORK

ROUNDED, NATIVE BOULDERS (NEW & FROM STOCKPILE)

PRECAST CONC. CURB (WITH REVEAL ON HATCHED EDGE)

12" CONCRETE RETAINING WALL

EWV MULCH (12" IN USE ZONES, 6" IN OTHER AREAS)

3" VEHICULAR ASPHALT PATH

4" POURED CONCRETE PAD

4" CONCRETE WALK W/ EXPANSION JOINTS EVERY 20' AND CONTROL JOINTS EVERY 5'

SYNTHETIC TURF

6' BACKLESS BENCH, MOUNT VARIES

6' BACKED BENCH, MOUNT VARIES

ADA PICNIC TABLE

PICNIC BENCH

55 GAL TRASH RECEPTACLE, SURFACE MOUNT ON CONCRETE PAD

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DAIRYMPL E BOATHOUSE

ROGER WILLIAMS PARK

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Site Improvements at Miguel Luna Park

110 Sackett St

Providence, RI

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NORTH ARROW

N

SCALE

0 5' 10' 20'

SCALE: 1"=10'

DRAWING INFO

DATE ISSUED: 03/24/25

PROJECT NO: MIGU.22.01

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CHECKED BY: MG

SHEET TITLE

Materials Plan

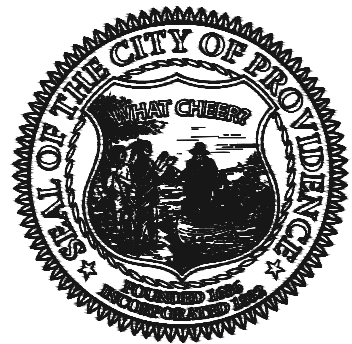
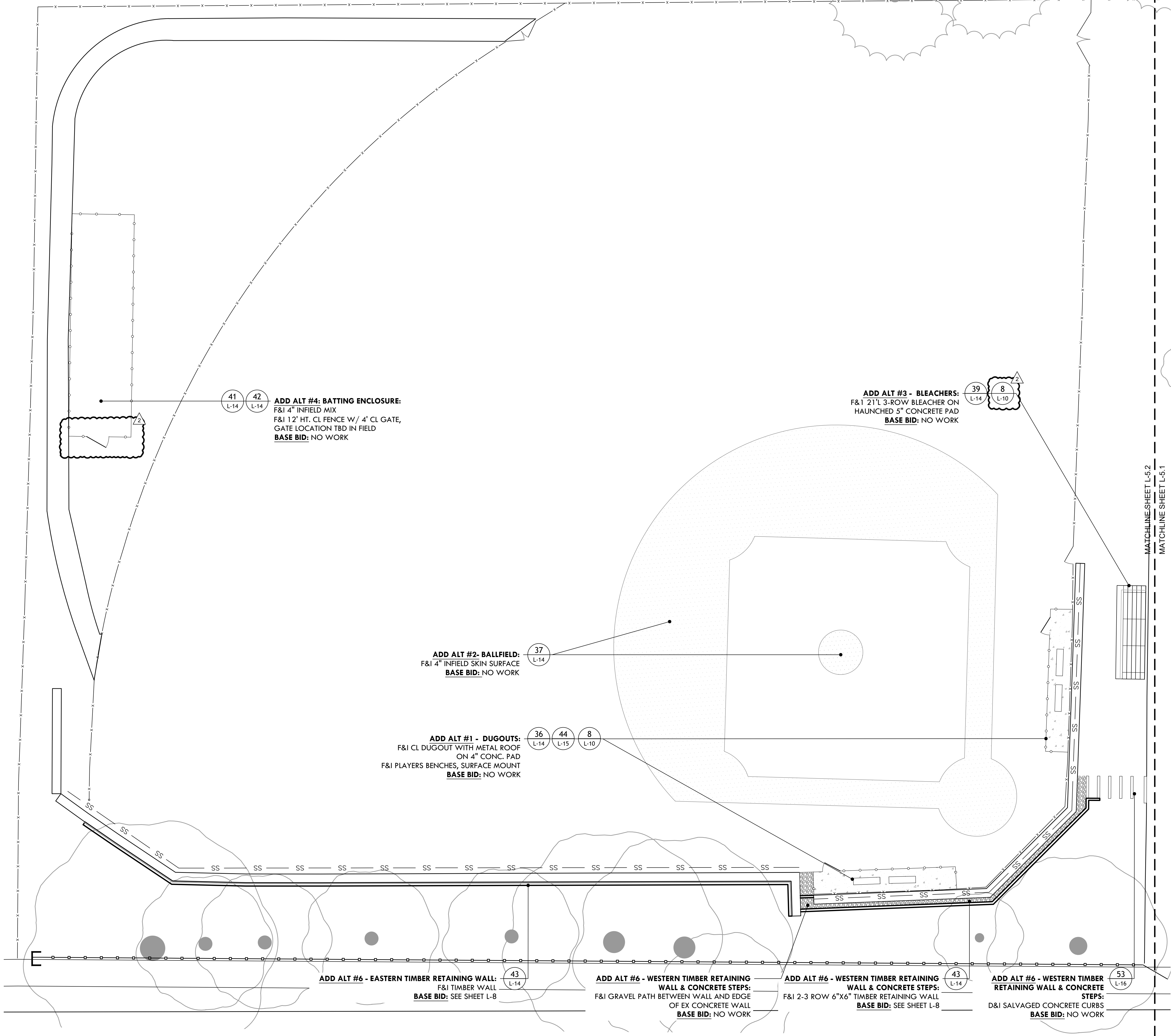
L-5.1

6 OF 22

FILE: MIGU.22.01-PLANS.dwg

MATERIALS PLAN LEGEND

- 4" INFIELD MIX
- 4" POURED CONCRETE PAD
- GRAVEL PATH
- 4' WELDED WIRE MESH (WWM) FENCE
- 2' TIMBER RETAINING WALL
- LIMITS OF FENCE WORK



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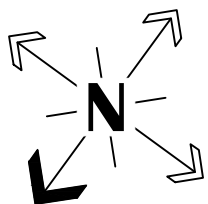
Site Improvements at
Miguel Luna Park

110 Sackett St
Providence, RI

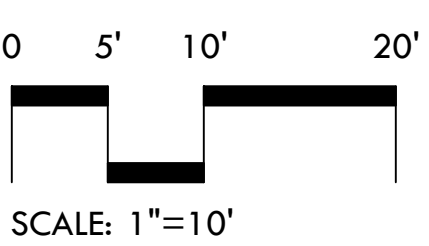
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-	-	-

NORTH ARROW



SCALE



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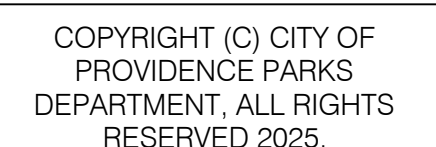
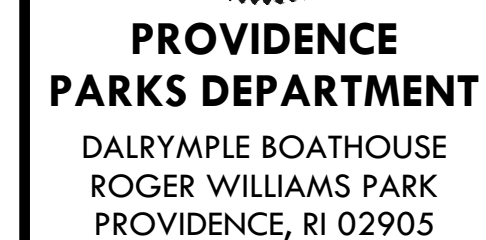
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PROJECT NO: MIGU.22.01
DRAWN BY: AN, II, SG
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SHEET TITLE

Materials Plan

L-5.2

7 OF 22



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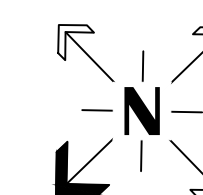
Site Improvements at Miguel Luna Park

110 Sackett St
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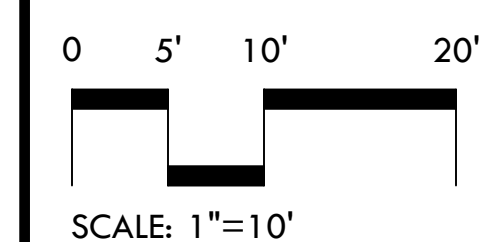
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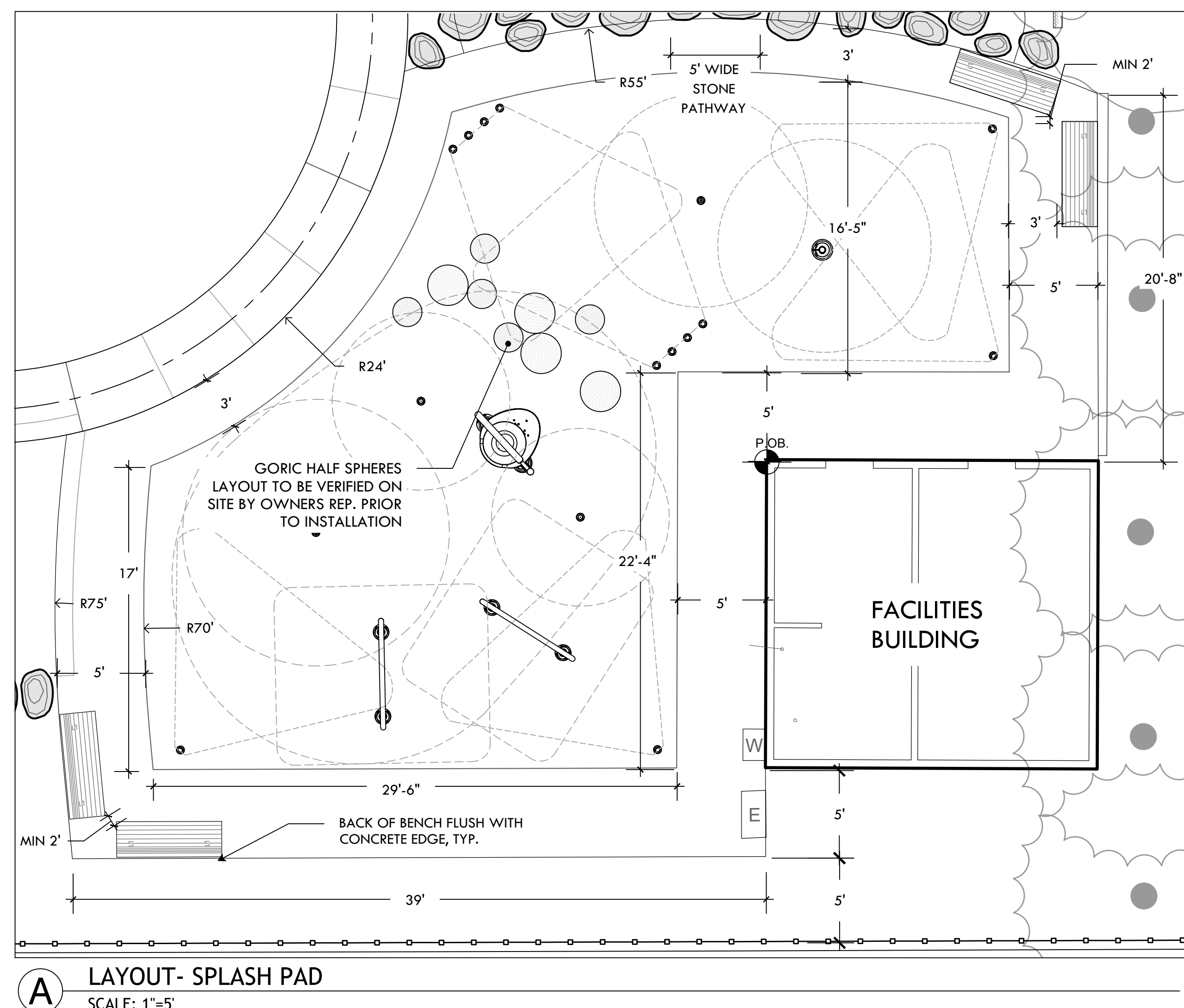
SHEET TITLE

Layout Plan

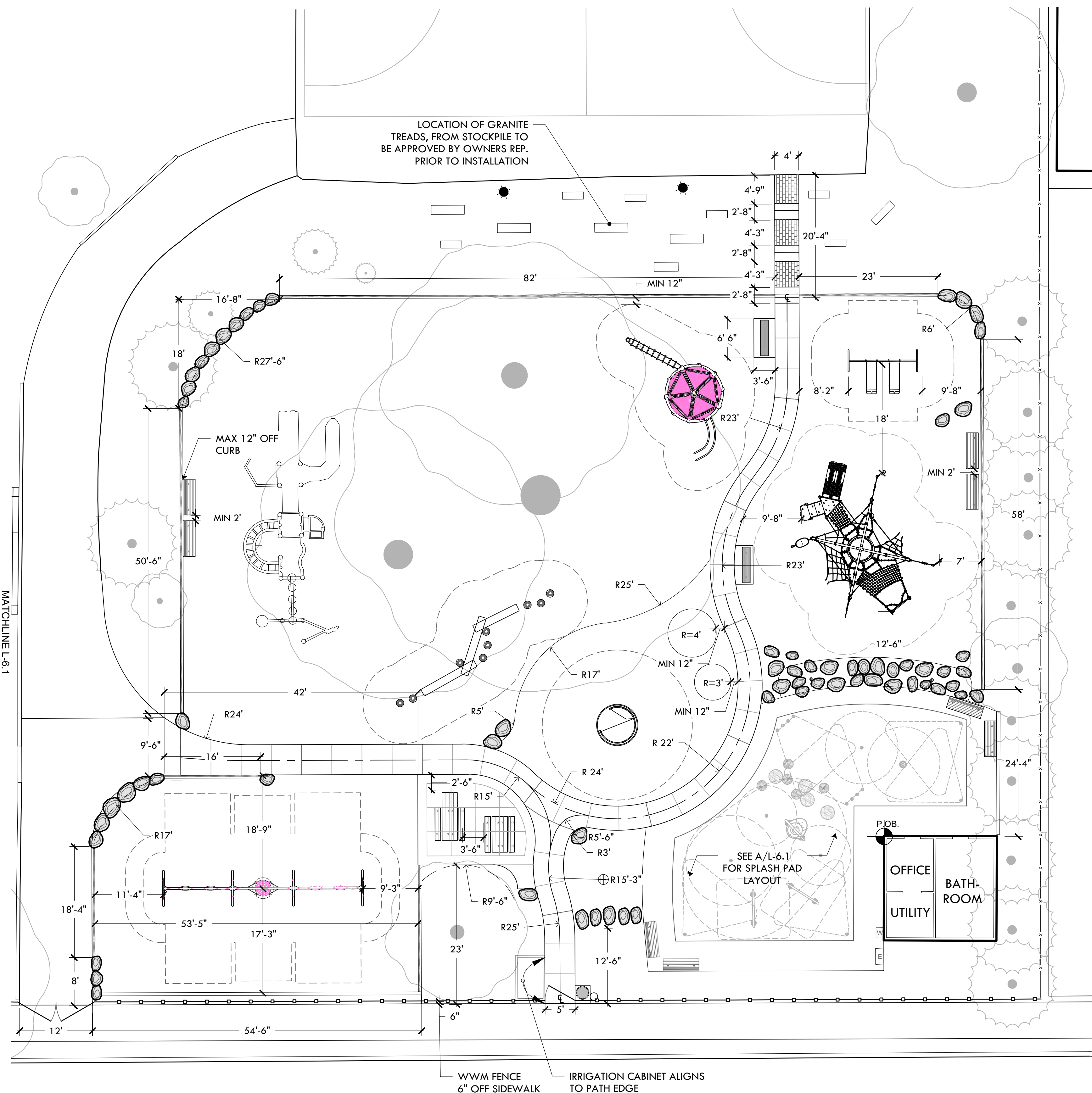
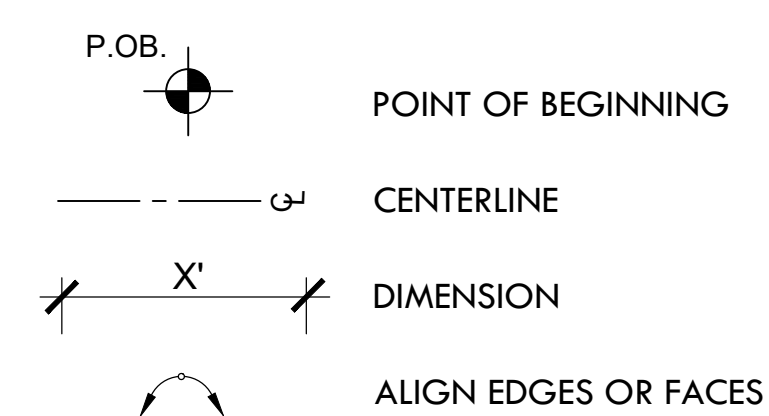
L-6.1

8 OF 22

FILE: MIGU.22.01-PLANS.dwg



LAYOUT LEGEND



LAYOUT LEGEND

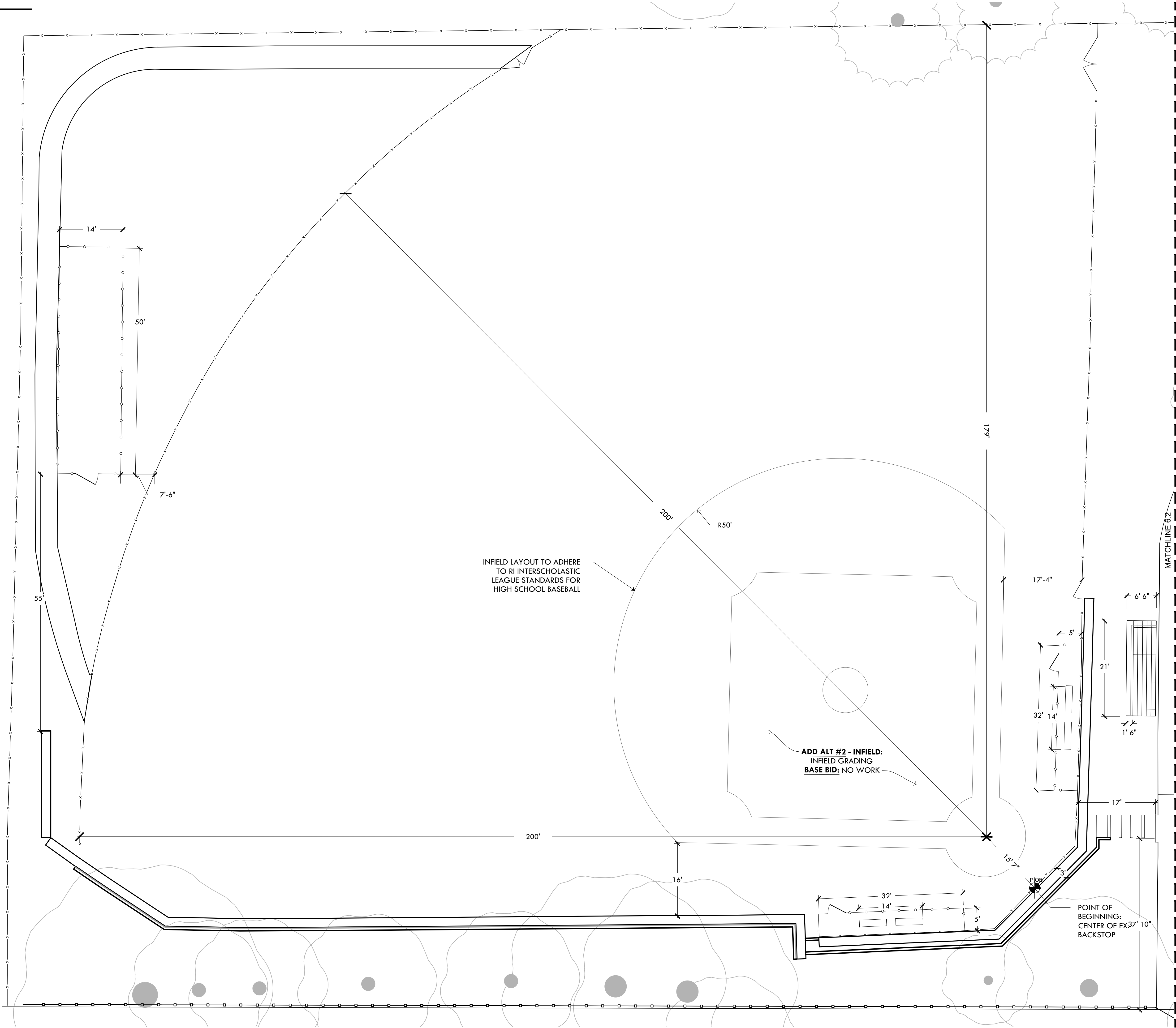
P.O.B.

POINT OF BEGINNING

CENTERLINE

X'

DIMENSION



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Site Improvements at Miguel Luna Park

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-	-	-
-	-	-

NORTH ARROW

SCALE

0 5' 10' 20'

SCALE: 1"=10'

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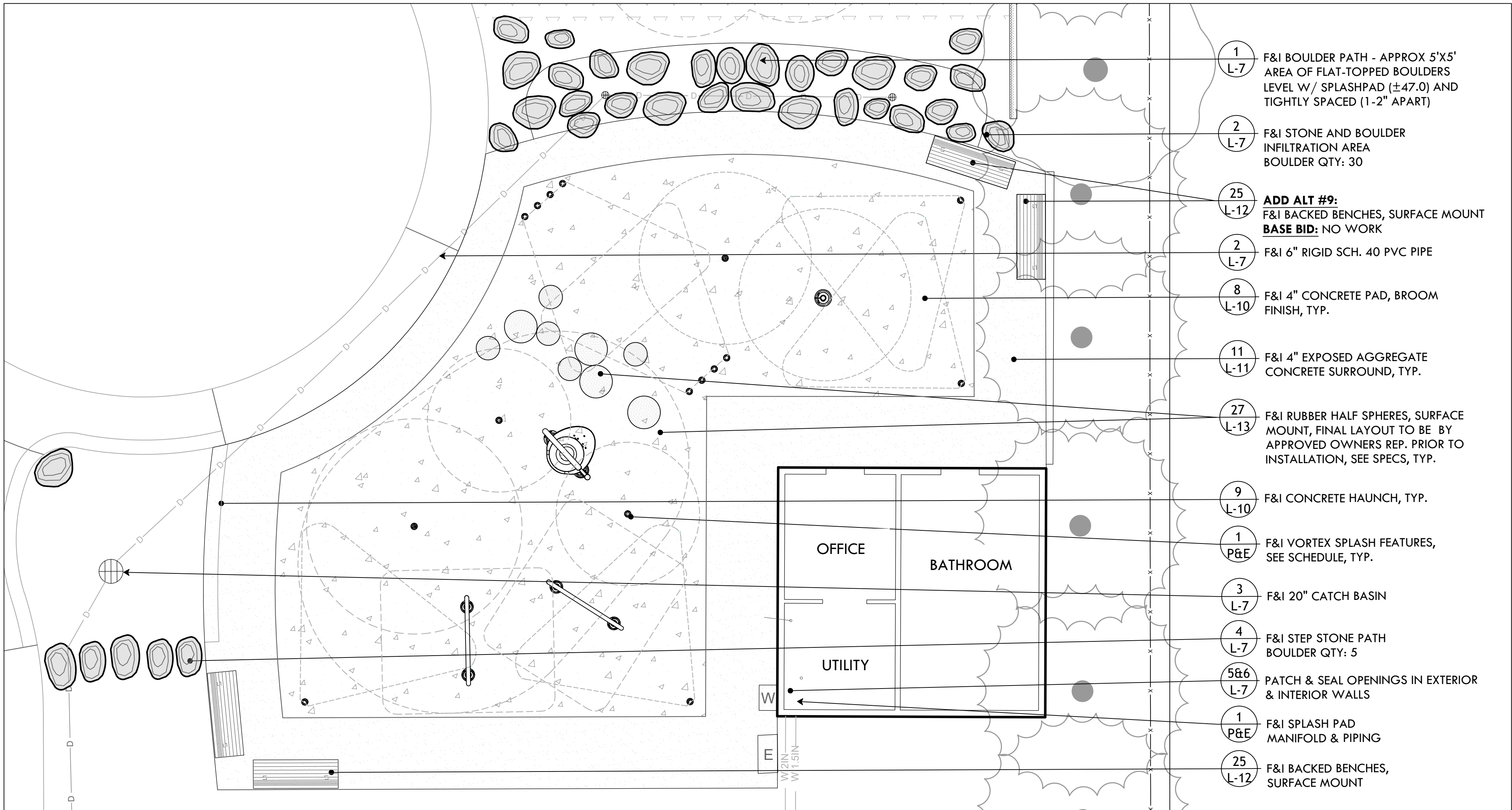
SHEET TITLE

Layout Plan

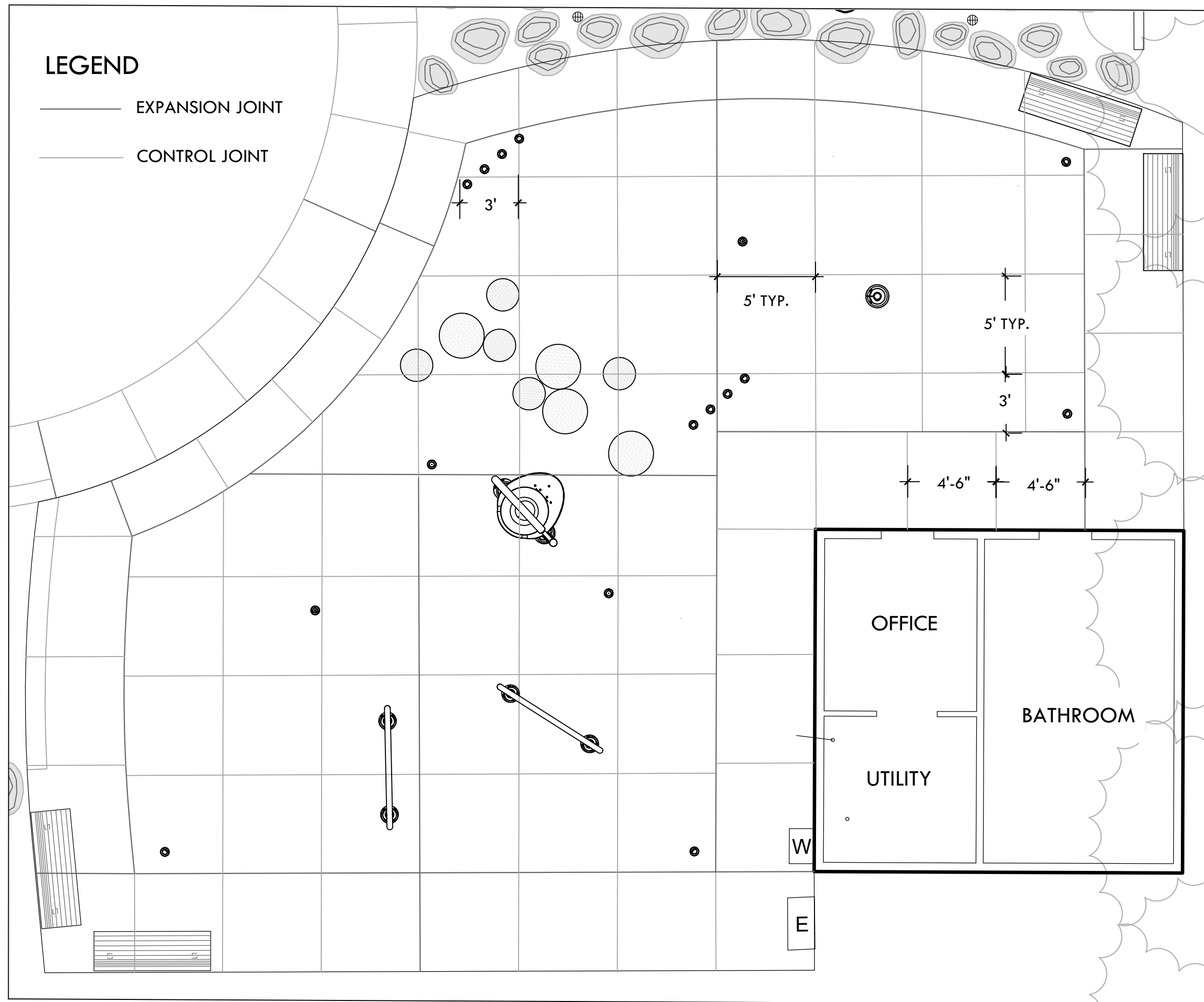
L-6.2

9 OF 22

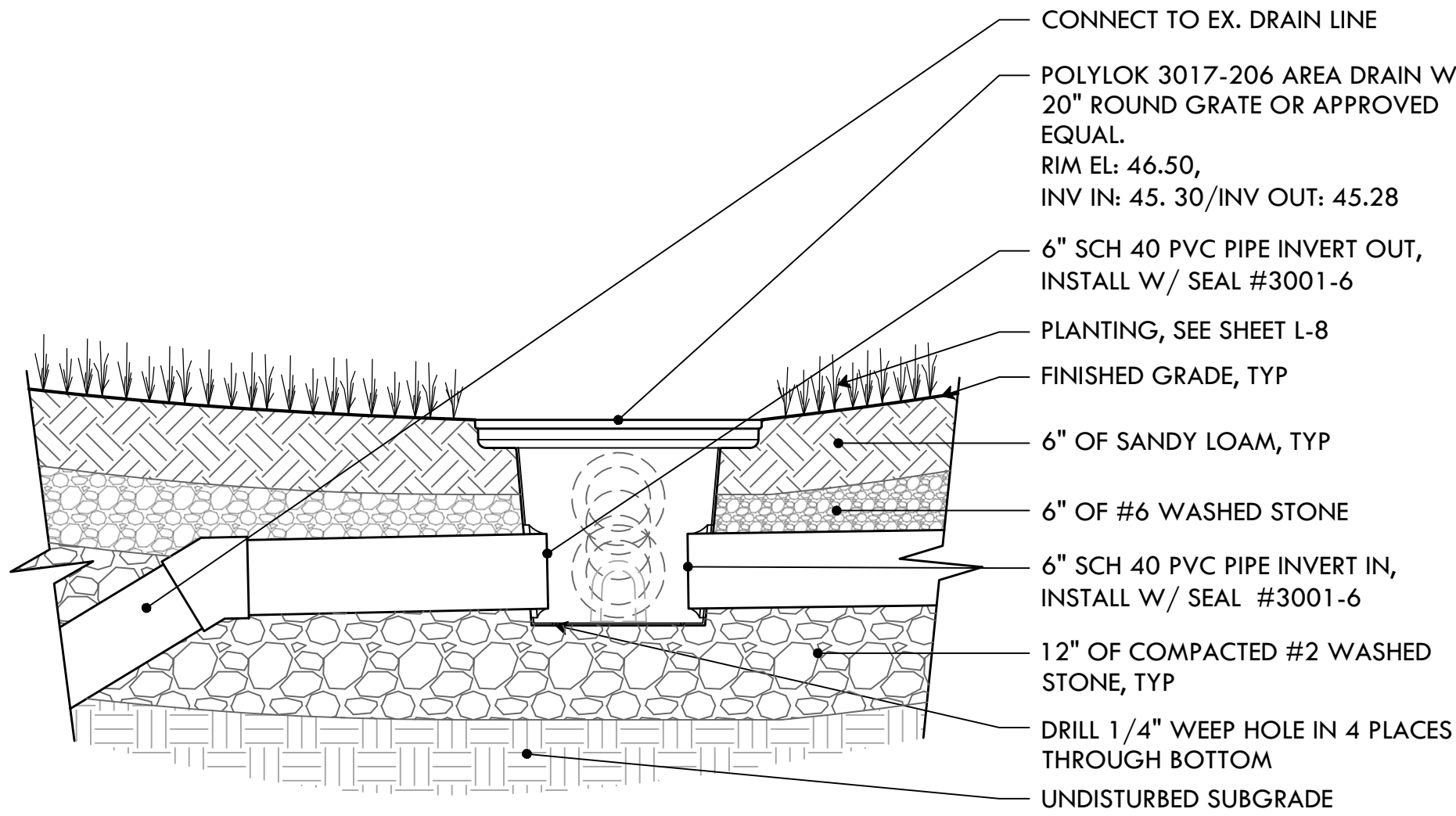
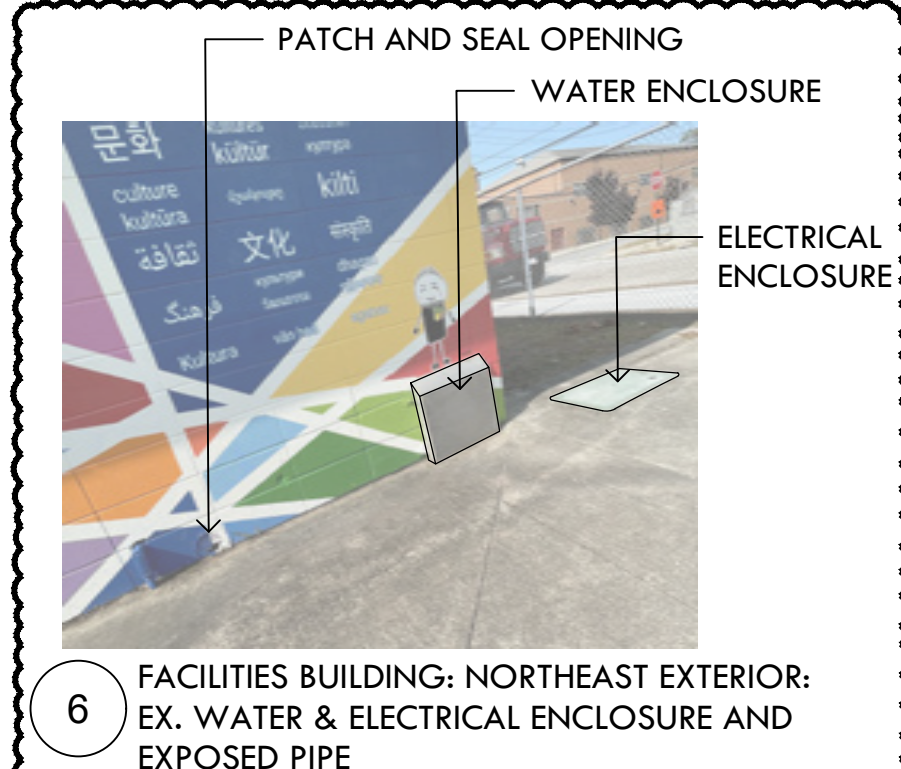
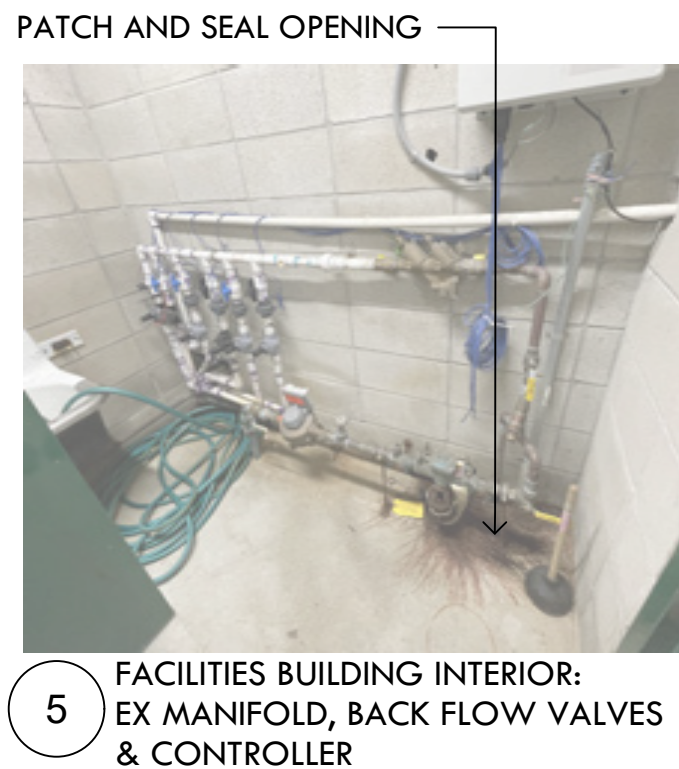
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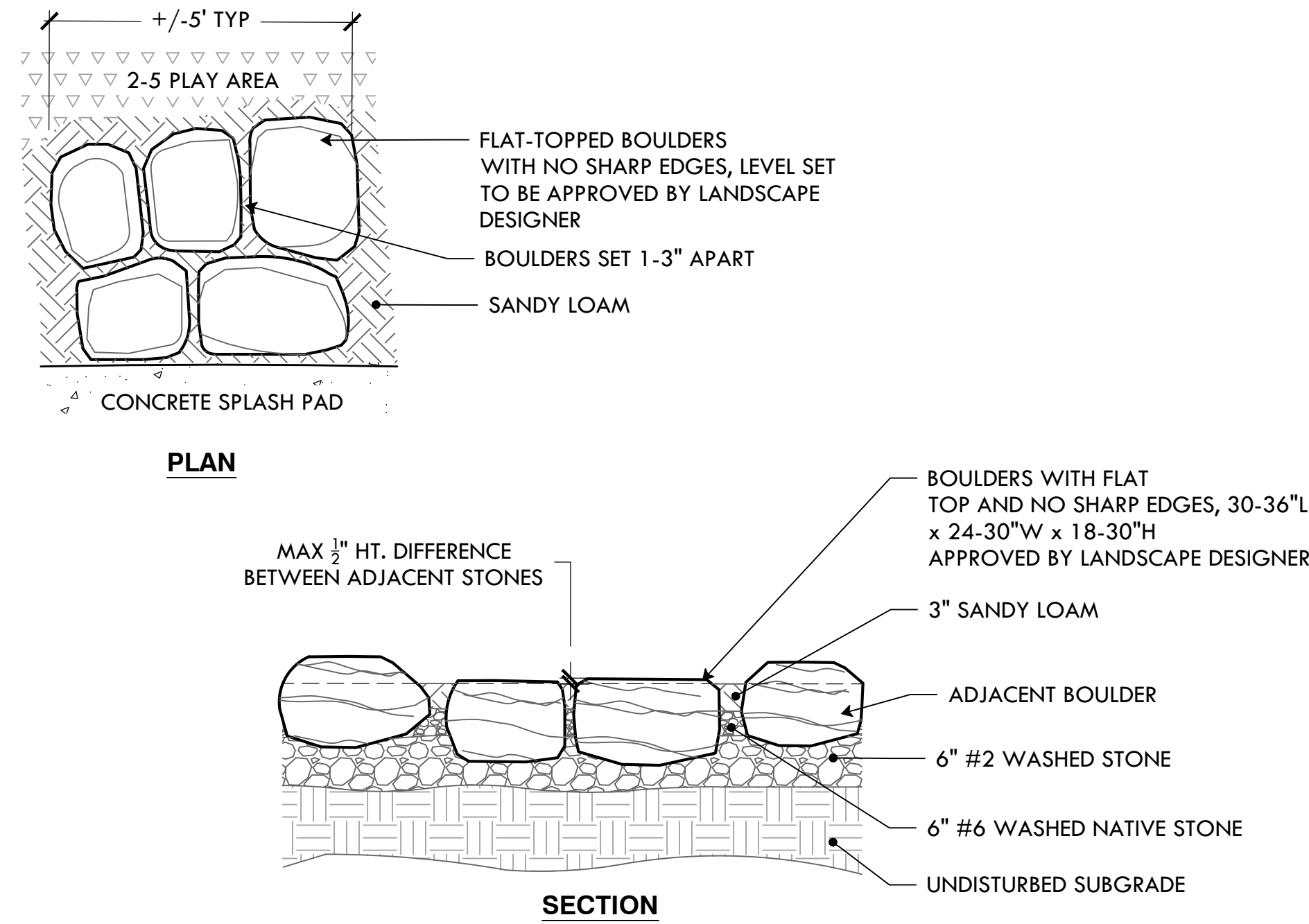
A MATERIALS PLAN - SPLASH PAD
SCALE: 1"=5'



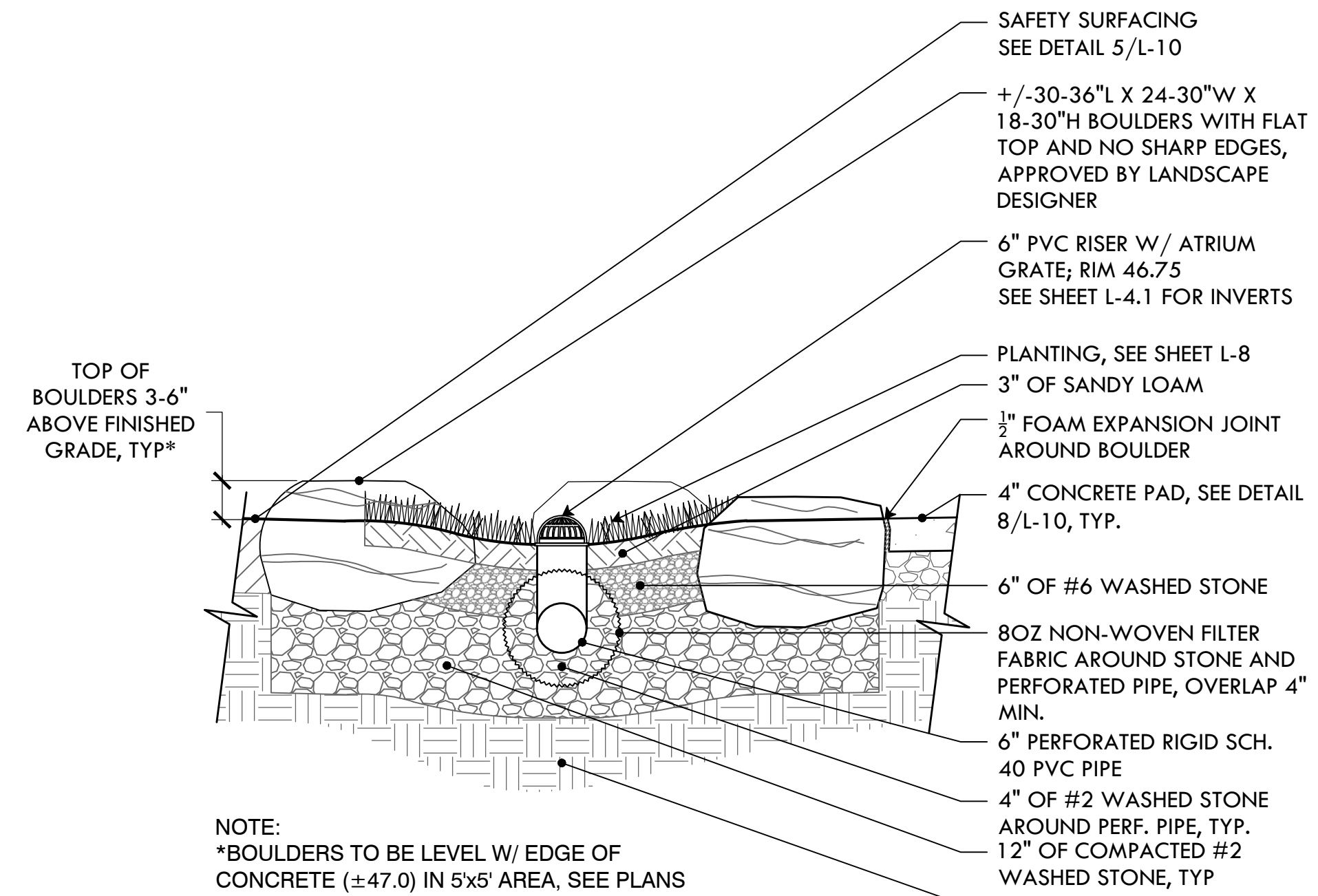
B CONCRETE SCORING - SPLASH PAD
SCALE: 1"=5' *FINAL LAYOUT TO BE APPROVED BY OWNER'S REP. PRIOR TO INSTALLATION



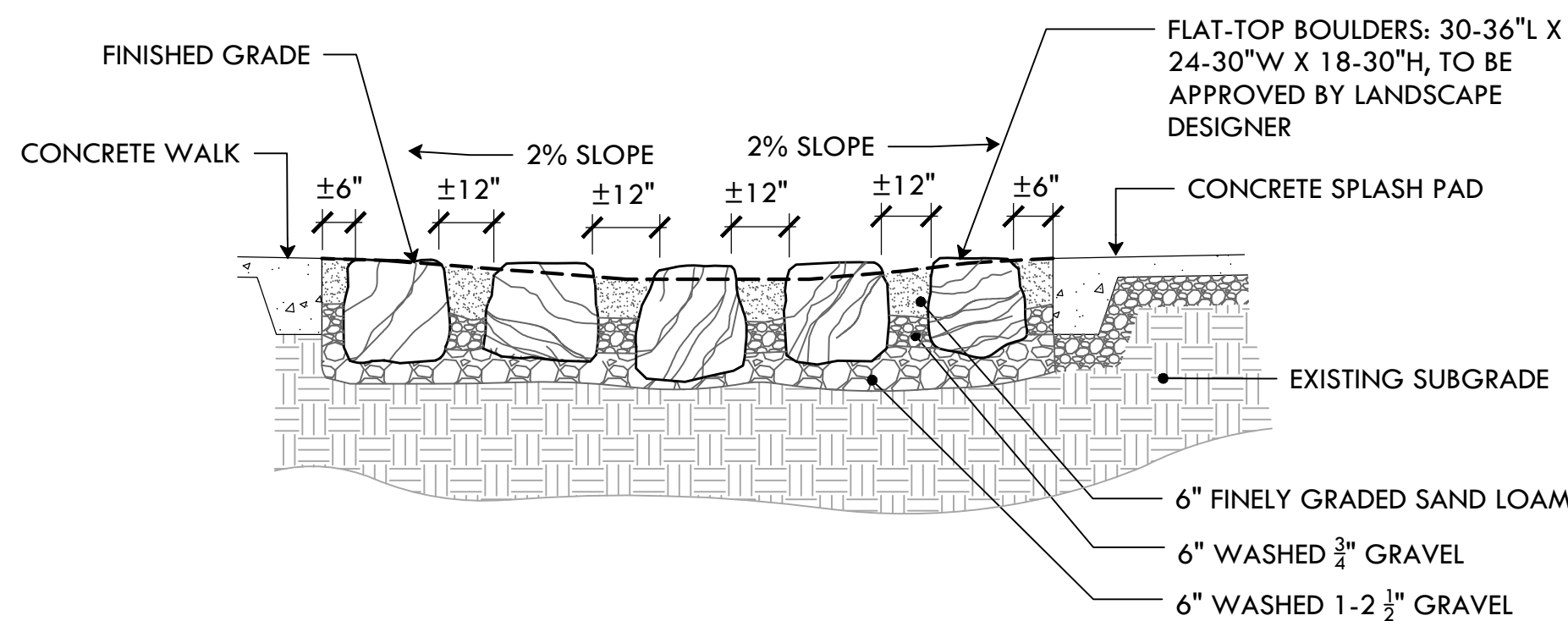
3 20 INCH CATCH BASIN
NTS



1 BOULDER PATH
NTS



2 BOULDER AND STONE INFILTRATION TRENCH AND DRAIN
NTS



4 STEP STONE PATH
NTS



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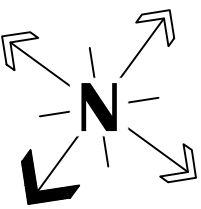
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SCALE

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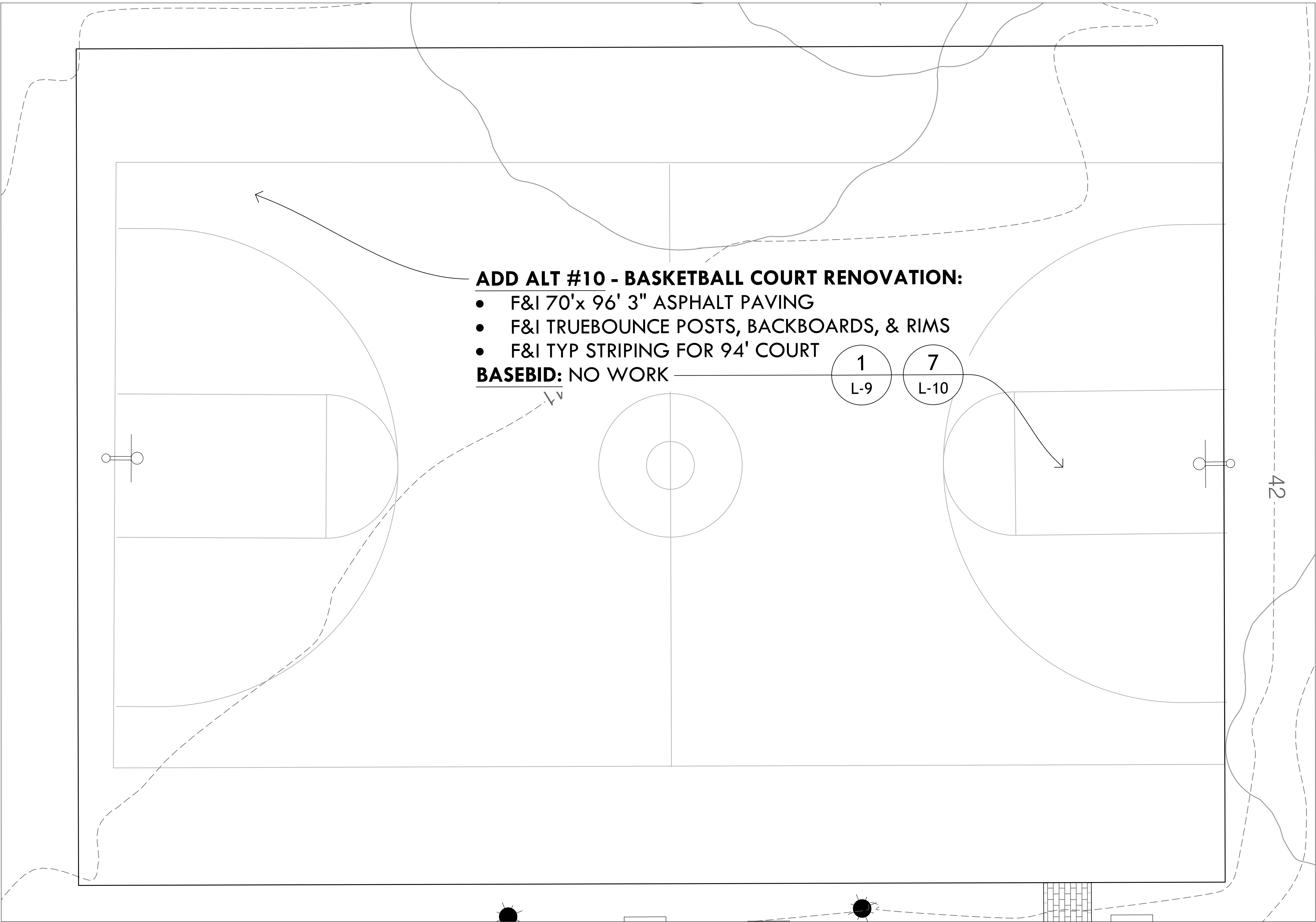
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SHEET TITLE

Splash Pad Enlargements & Details

L-7

10 OF 22



ADD ALT #10 - BASKETBALL COURT RENOVATION:

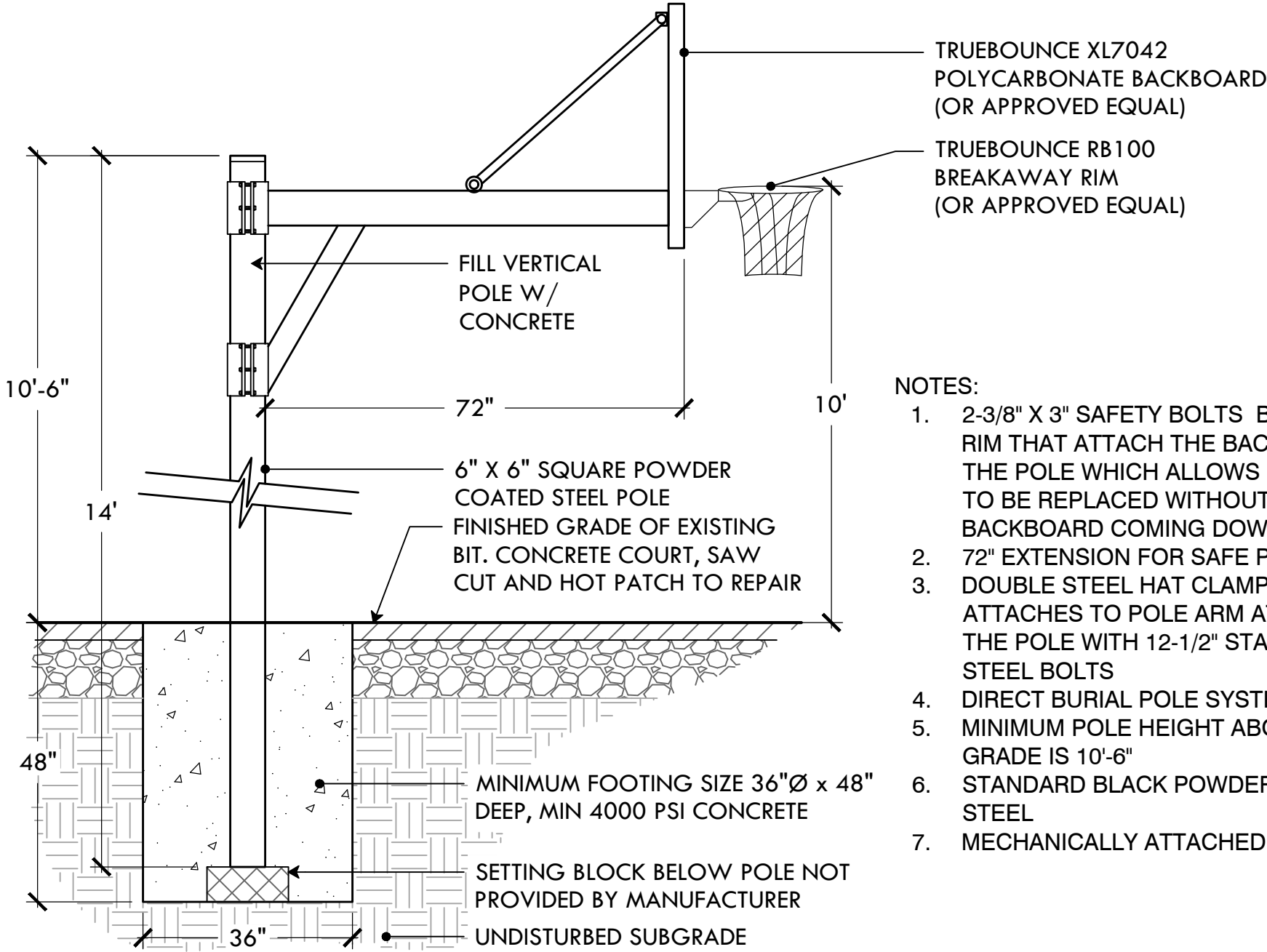
- F&I 70'x 96' 3" ASPHALT PAVING
- F&I TRUEBOUNCE POSTS, BACKBOARDS, & RIMS
- F&I TYP STRIPING FOR 94' COURT

BASEBID: NO WORK

1
L-9

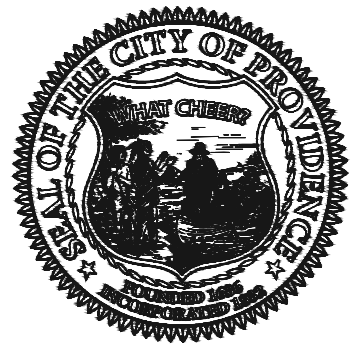
7
L-10

A1 ADD ALT #10: BASKETBALL COURT RENOVATION
NTS



- NOTES:
1. 2-3/8" X 3" SAFETY BOLTS BEHIND THE RIM THAT ATTACH THE BACKBOARD TO THE POLE WHICH ALLOWS FOR THE RIM TO BE REPLACED WITHOUT THE BACKBOARD COMING DOWN
 2. 72" EXTENSION FOR SAFE PLAY
 3. DOUBLE STEEL HAT CLAMP WHERE ARM ATTACHES TO POLE ARM ATTACHES TO THE POLE WITH 12-1/2" STAINLESS STEEL BOLTS
 4. DIRECT BURIAL POLE SYSTEM
 5. MINIMUM POLE HEIGHT ABOVE FINISH GRADE IS 10'-6"
 6. STANDARD BLACK POWDER COATED STEEL
 7. MECHANICALLY ATTACHED POLE CAP

1 TRUE BOUNCE BASKETBALL POST AND HOOP
NTS



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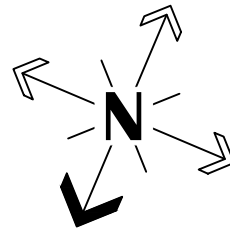
**Site Improvements at
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**110 Sackett St
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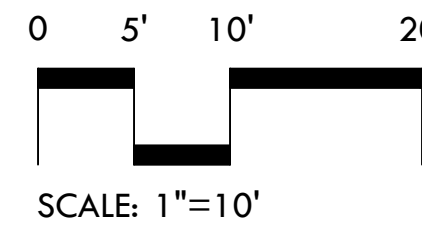
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SCALE



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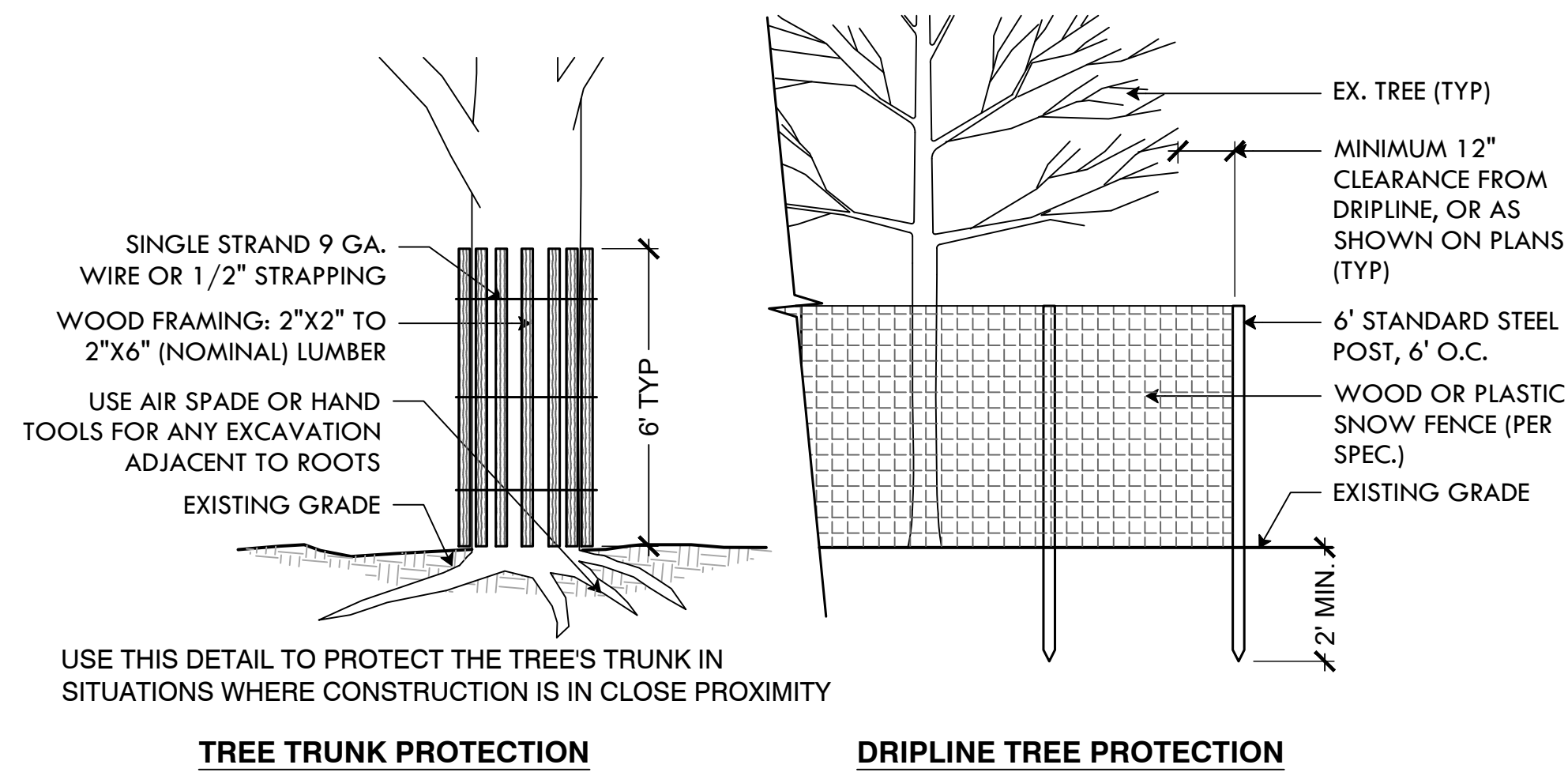
DATE ISSUED: **03/24/25**
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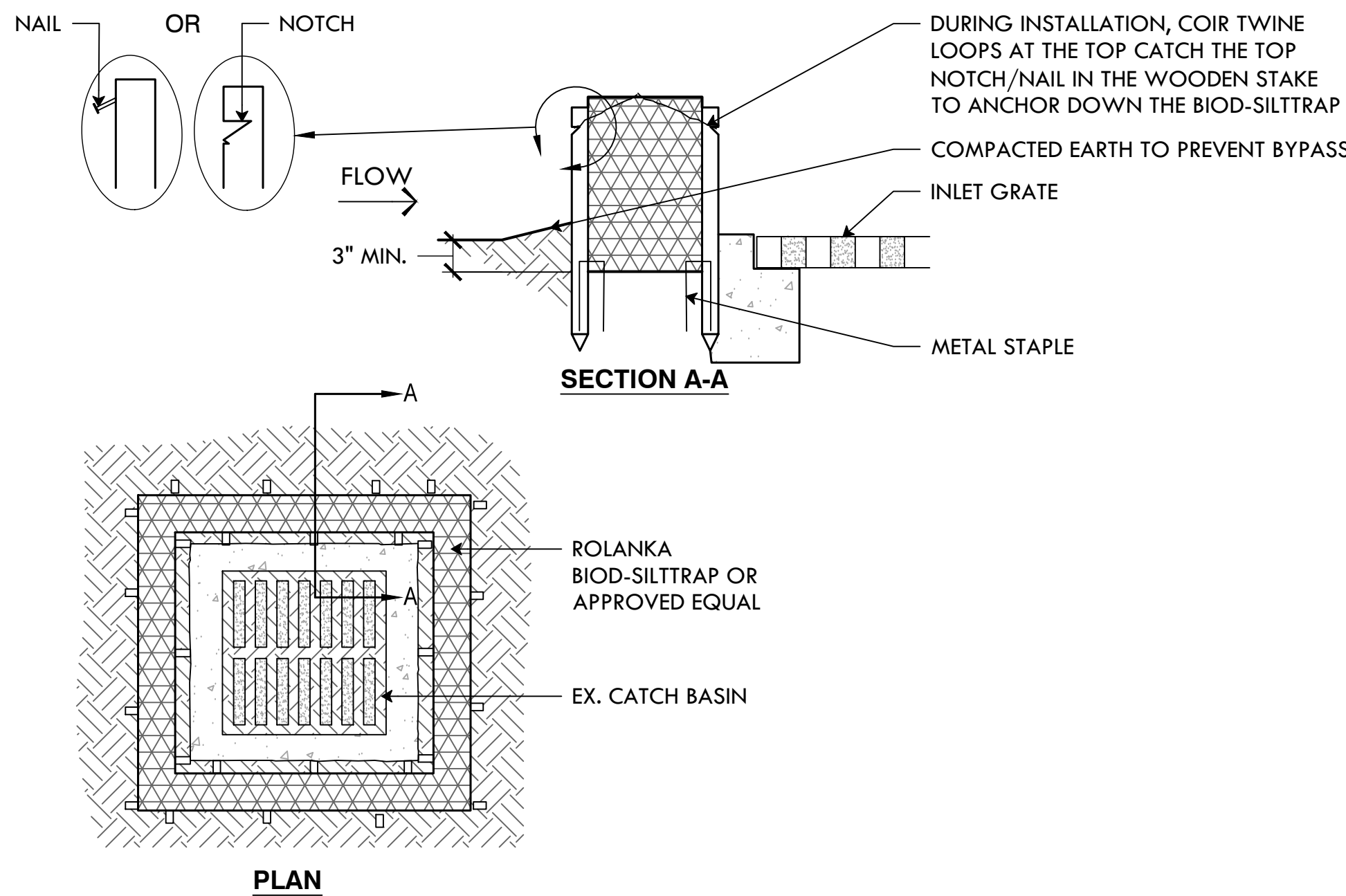
**Basketball Court
Renovation Plan**

L-9

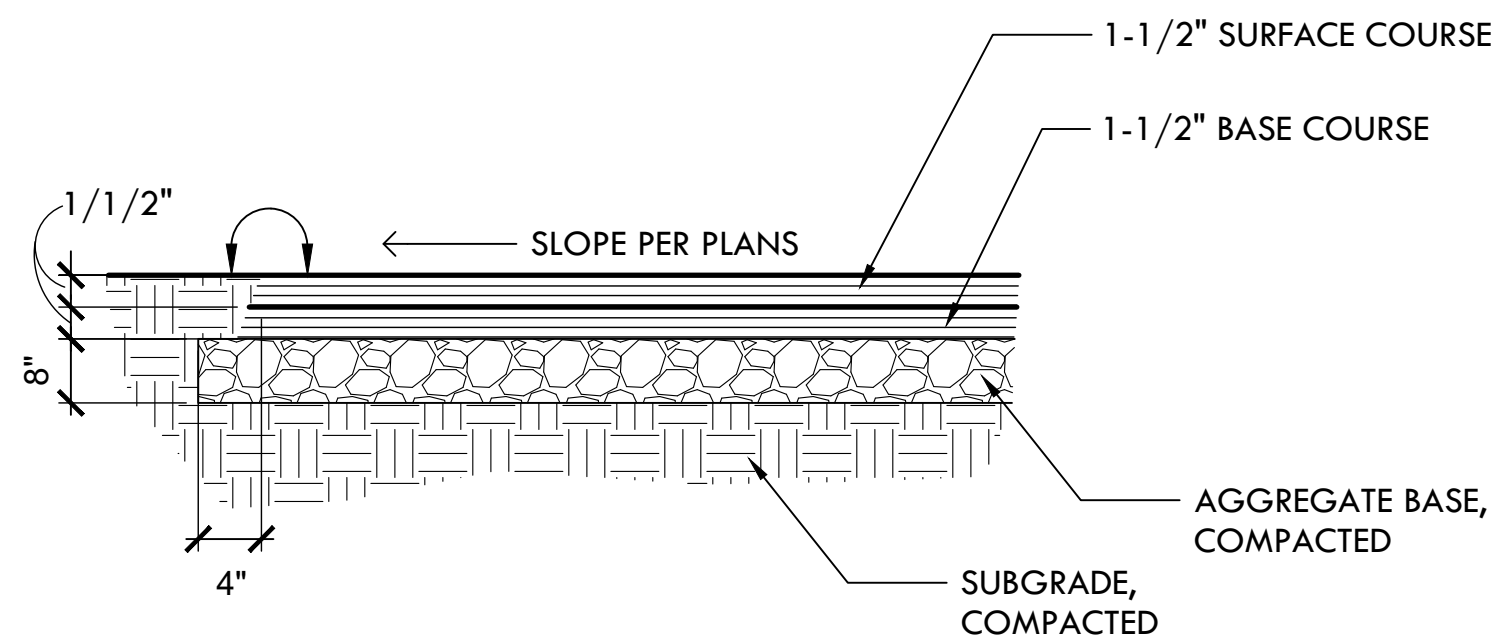
12 OF 22



1 TREE PROTECTION COMBINED
NTS

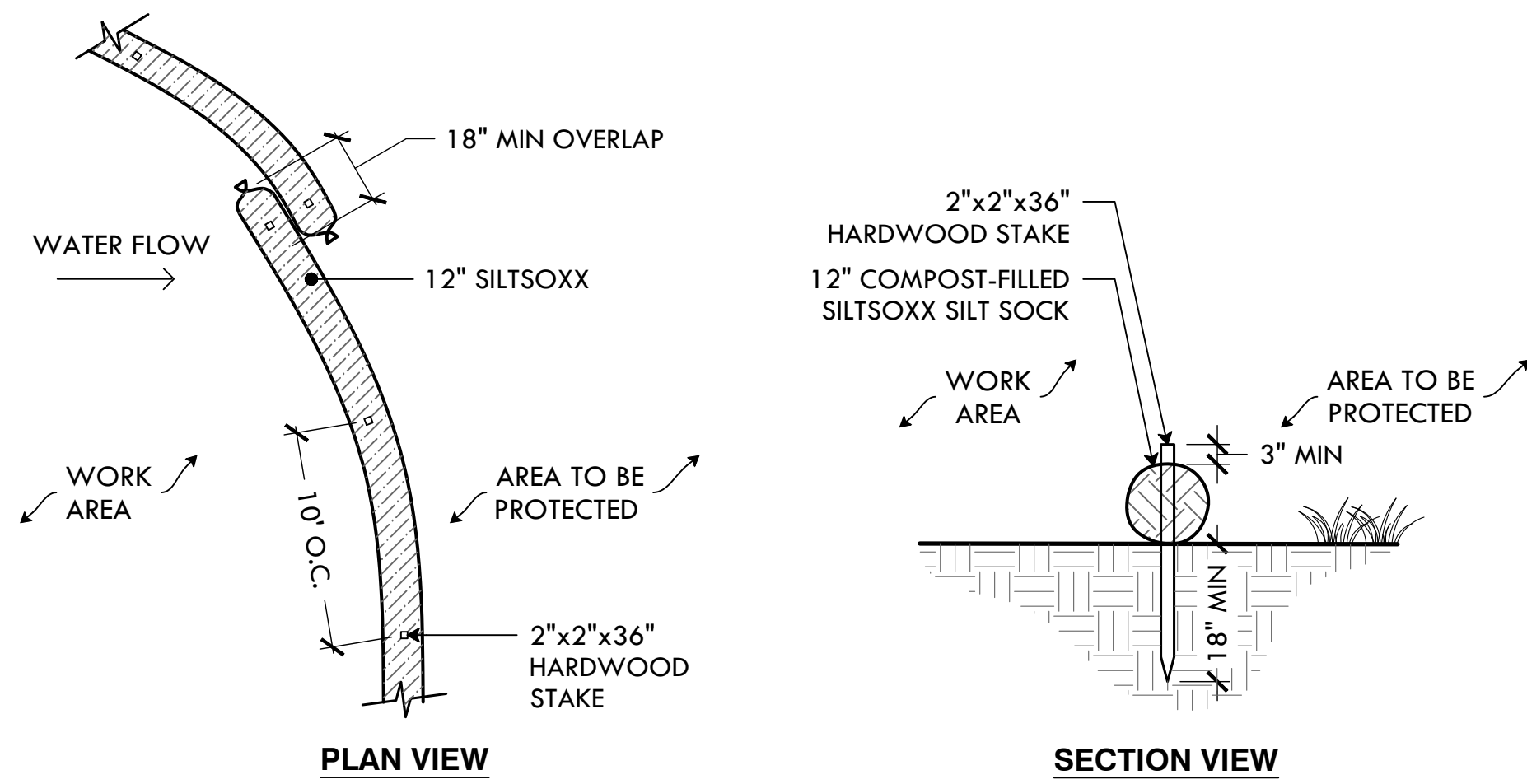


4 CATCH BASIN SILT SOCK
NTS



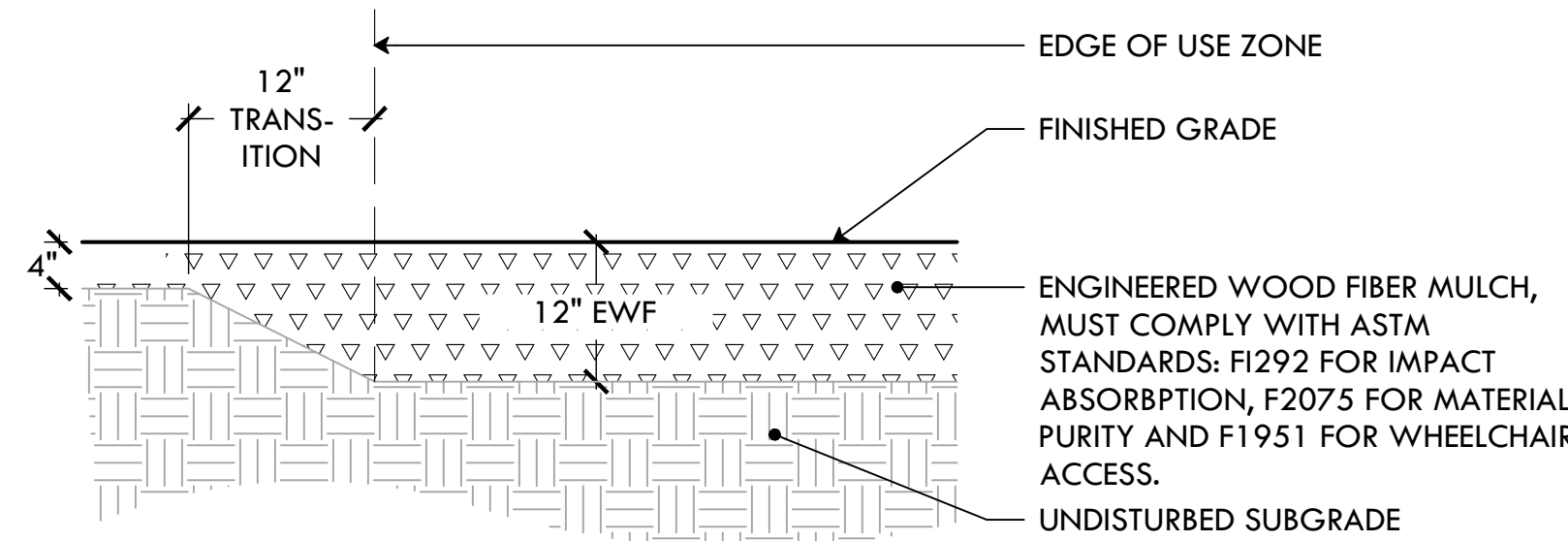
7 3" VEHICULAR ASPHALT PAVING
NTS

N.T.S.
MIGU.22.01-DETAILS.dwg

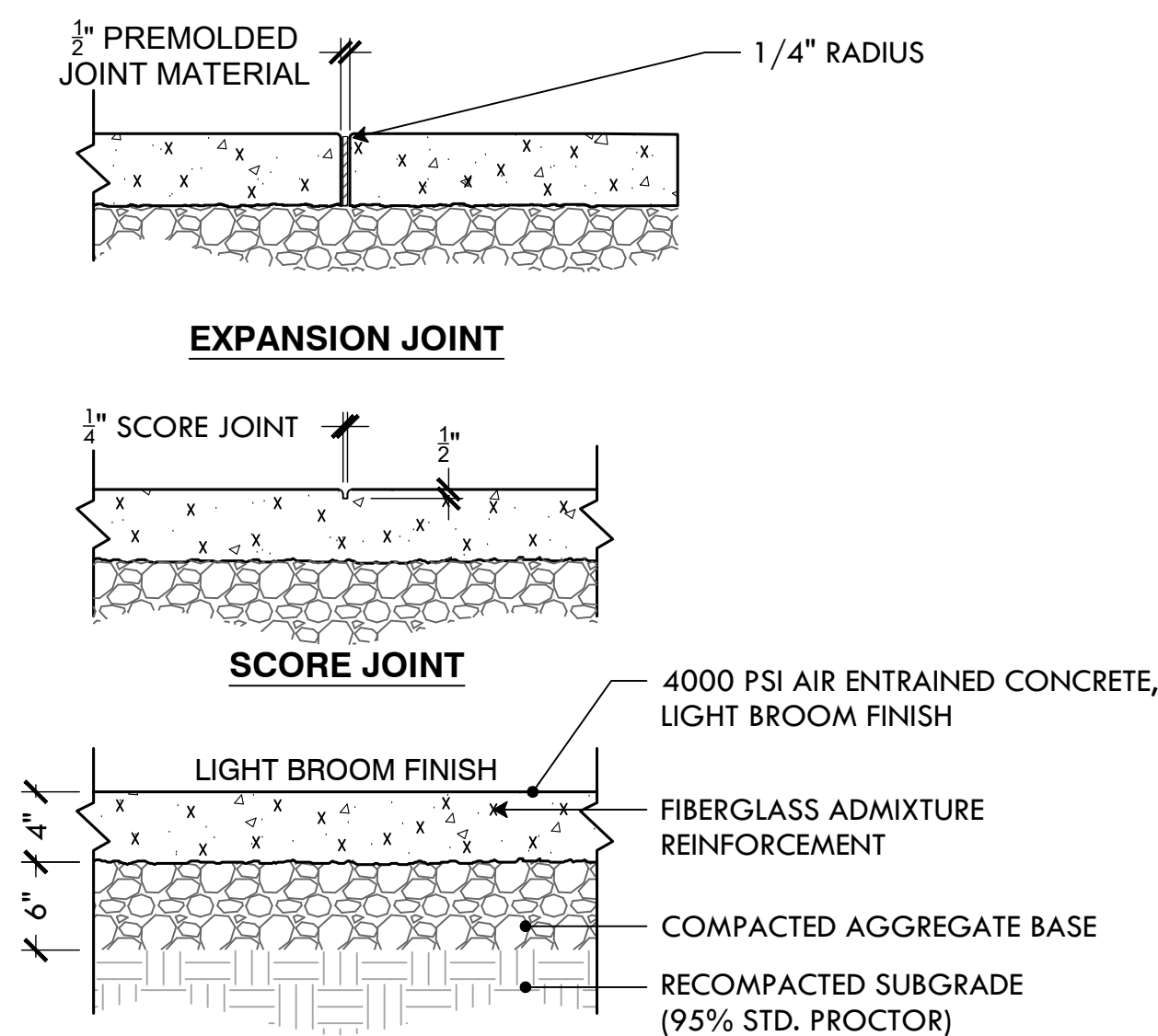


- NOTES:
1. SILT SOCK SHALL BE SILT SOCK BY FILTREXX OR LANDSCAPE ARCHITECT APPROVED EQUAL.
 2. FILL MATERIAL TO MEET MANUFACTURER'S SPECIFICATIONS.
 3. FOLLOWING CONSTRUCTION AND SITE STABILIZATION, COMPOST MATERIAL SHALL BE DISPERSED ON SITE, IN LOCATION SELECTED BY THE LANDSCAPE ARCHITECT.

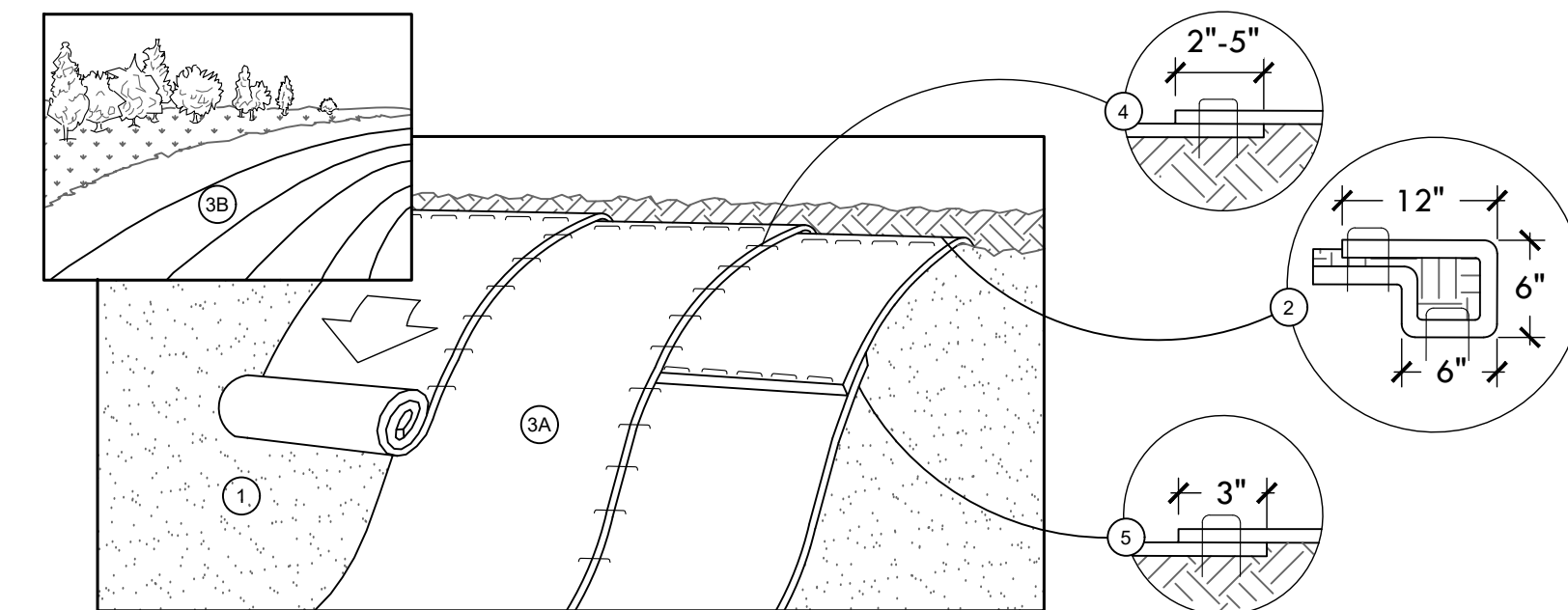
2 SILT SOCK
NTS



5 ENGINEERED WOOD FIBER (EWF) SAFETY SURFACING
NTS

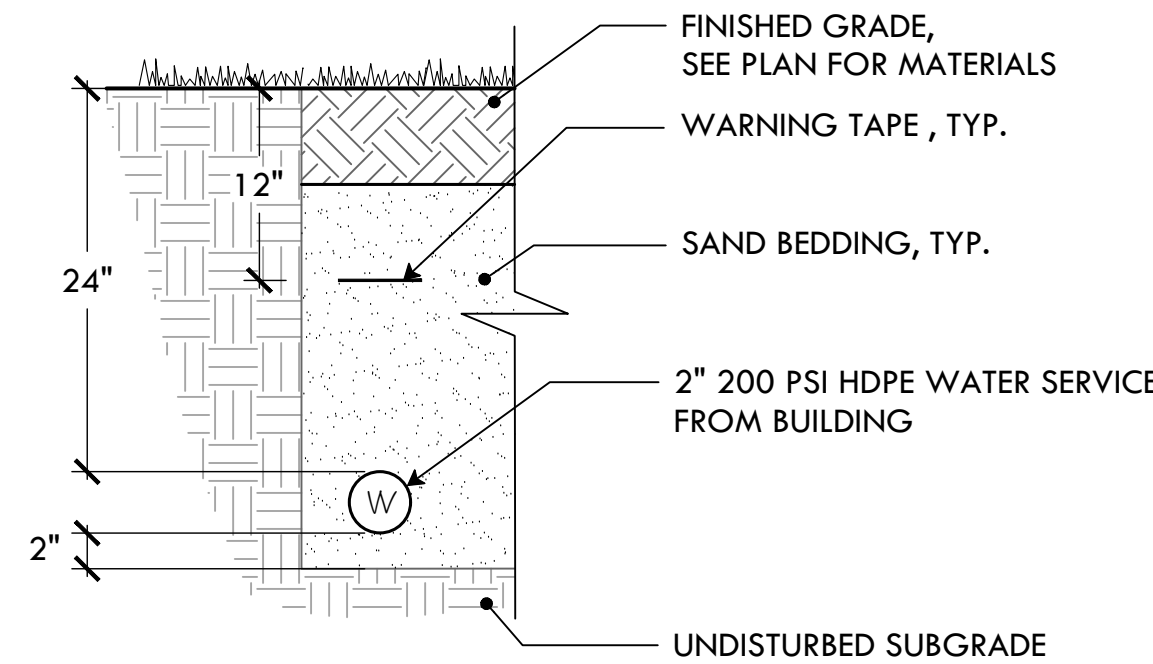


8 4" CONCRETE WALK
NTS

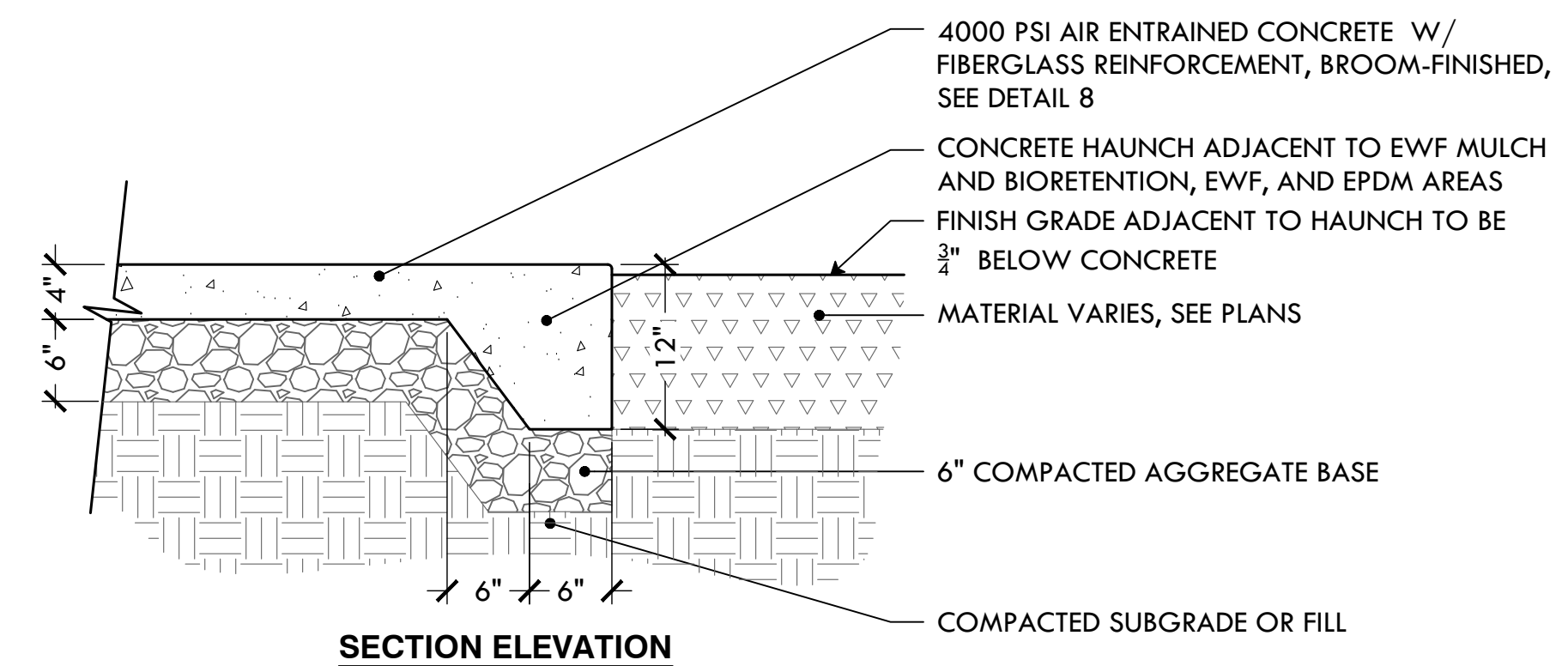


- SLOPE INSTALLATION**
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
 3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/ STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2'-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
 5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
- NOTES:
- a. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - b. IN LOOSE SOIL CONDITIONS THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15CM) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

3 EROSION CONTROL BLANKET
NTS



6 WATER LINE TRENCH
NTS



9 12" CONCRETE HAUNCH
NTS



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DAIRYMPL E BOATHOUSE
ROGER WILLIAMS PARK
PROVIDENCE, RI 02905



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STAMP

PROJECT:

Site Improvements at Miguel Luna Park

110 Sackett St
Providence, RI

REVISIONS:

#	Date	Issued For:
2	4/8/2025	Addendum #2
-	-	-

NORTH ARROW

SCALE

DRAWING INFO

DATE ISSUED: 03/24/25
PROJECT NO: MIGU.22.01
DRAWN BY: AN, II, SG
CHECKED BY: MG

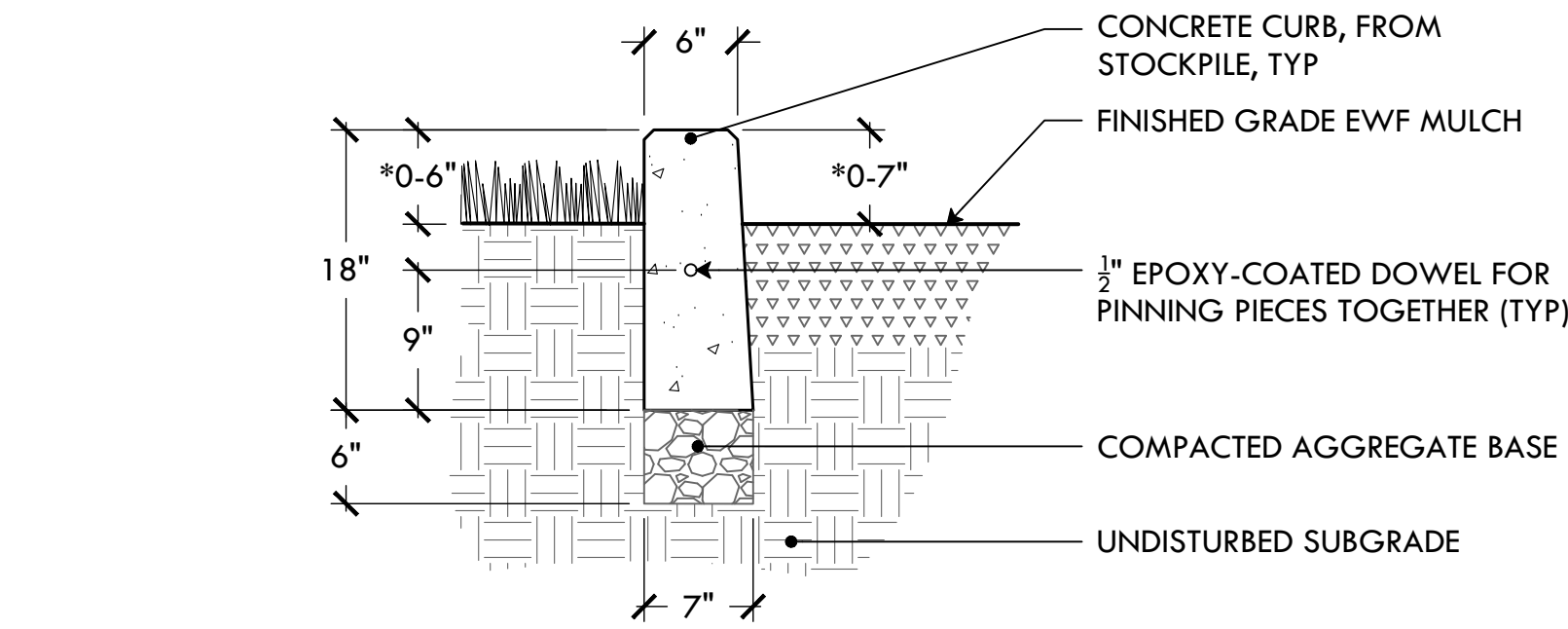
SHEET TITLE

Construction Details

L-10

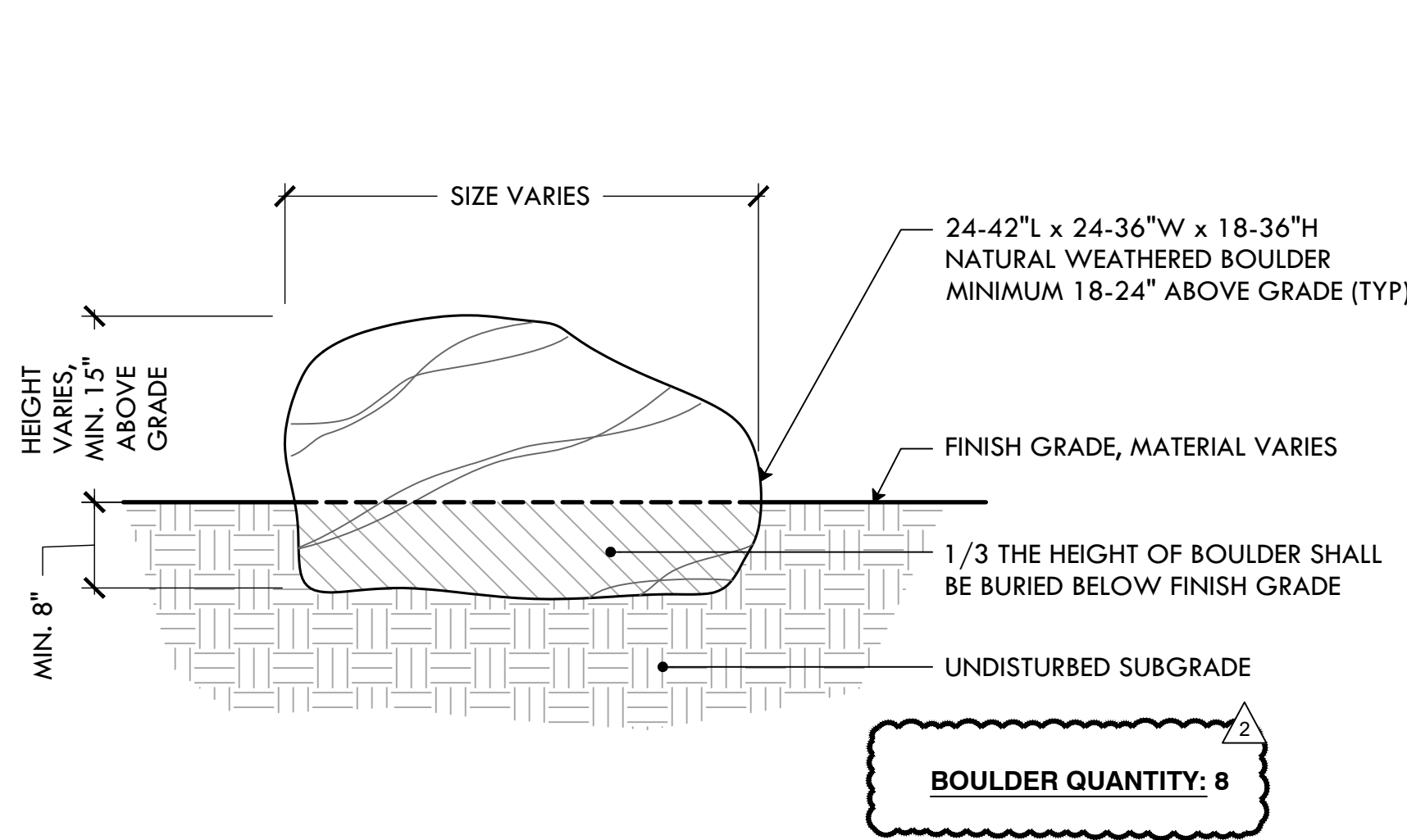
13 OF 22

FILE: MIGU.22.01-DETAILS.dwg



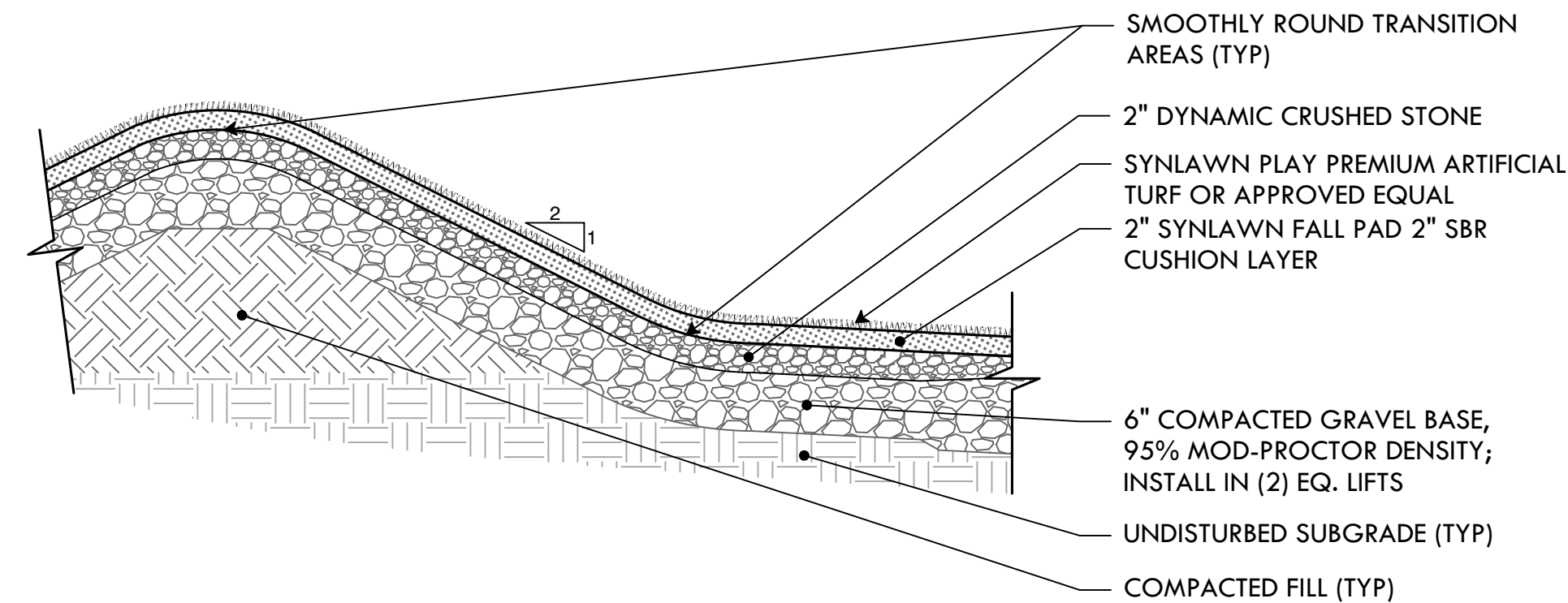
NOTE:
*REVEAL VARIES, SEE GRADING PLAN - L-4.1 FOR TOC/BOC

10 PRECAST CONCRETE CURB WITH REVEAL
NTS

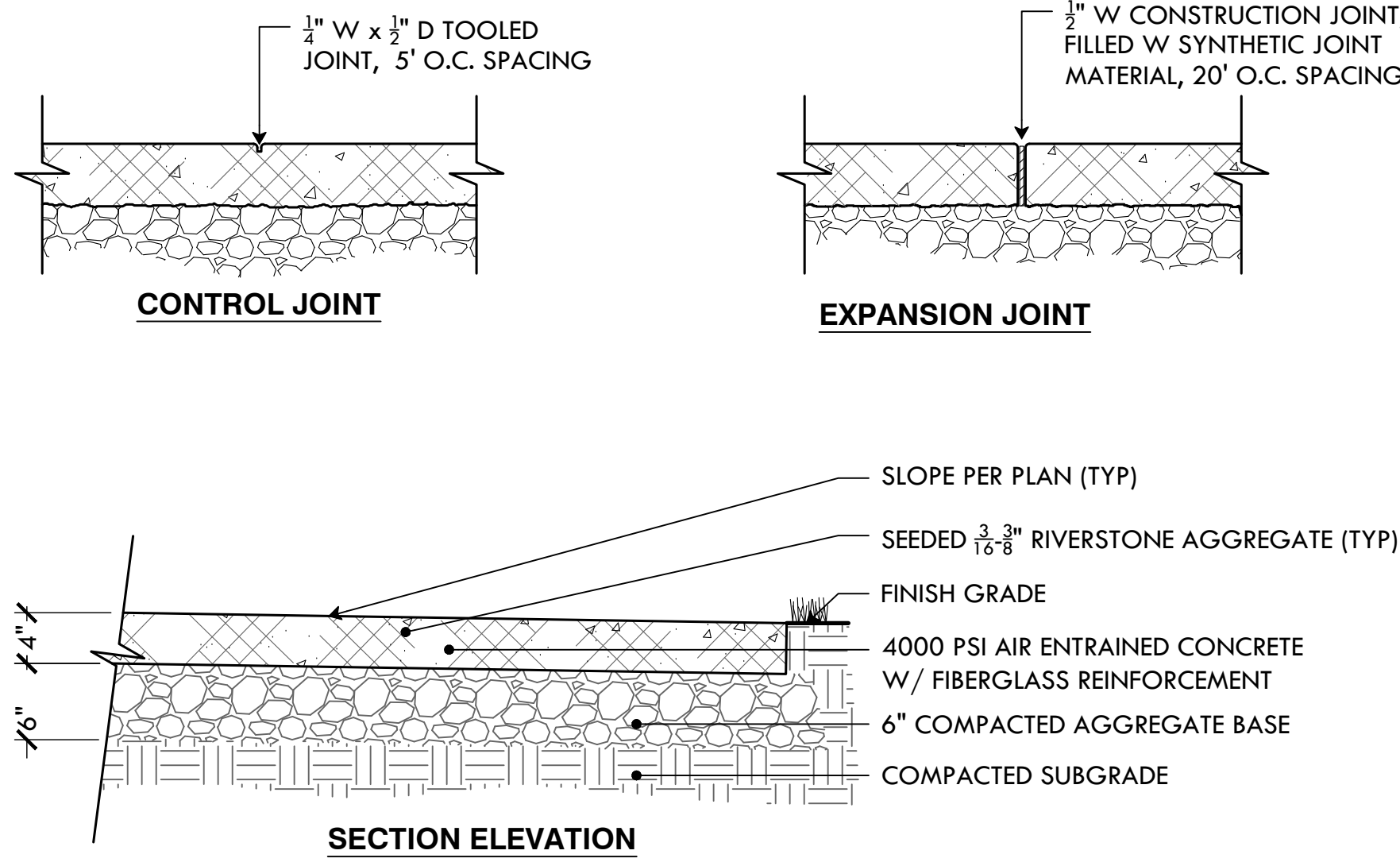


BOULDER QUANTITY: 8

13 LANDSCAPE BOULDER
NTS

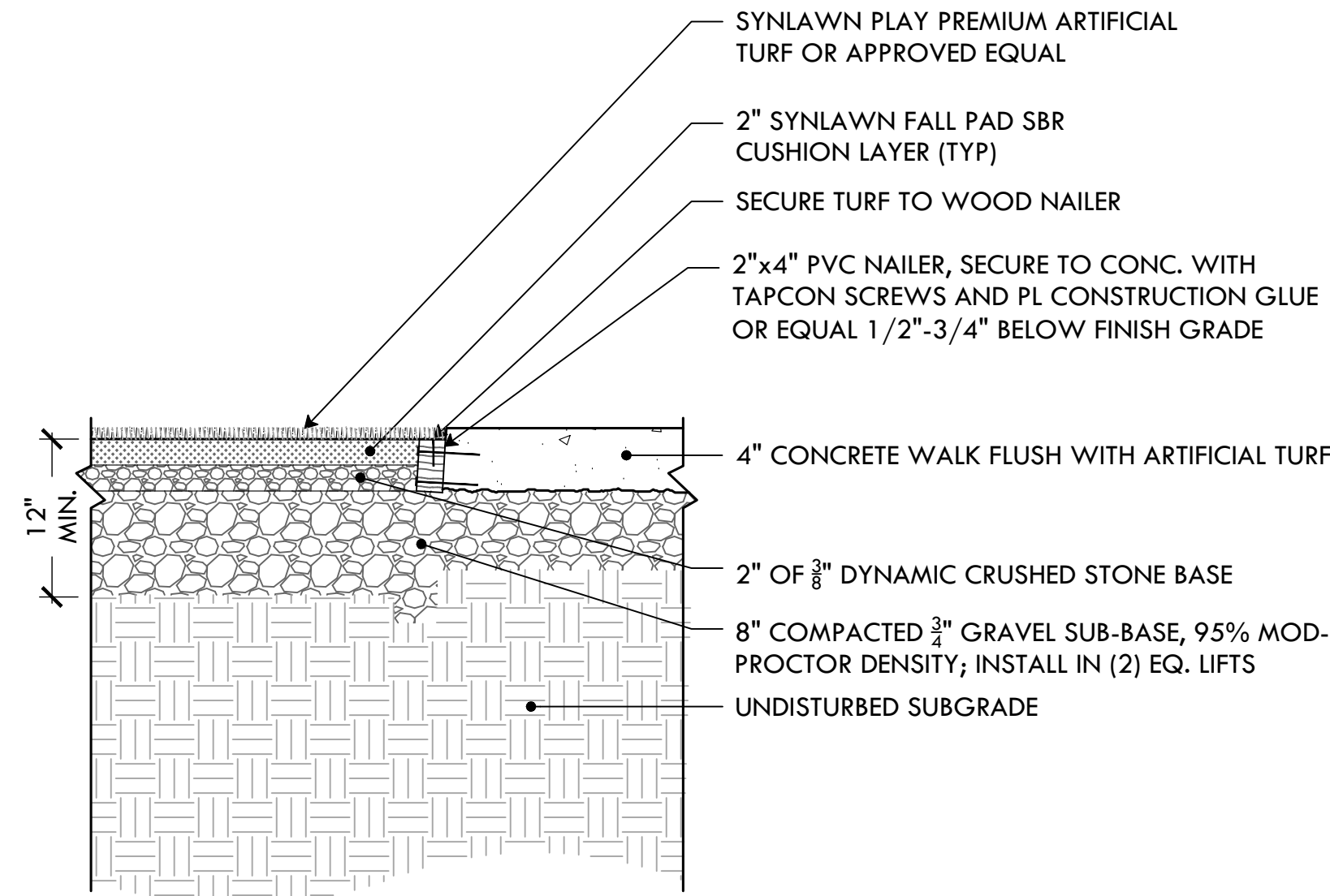


16 SYNTHETIC TURF BERMS
NTS



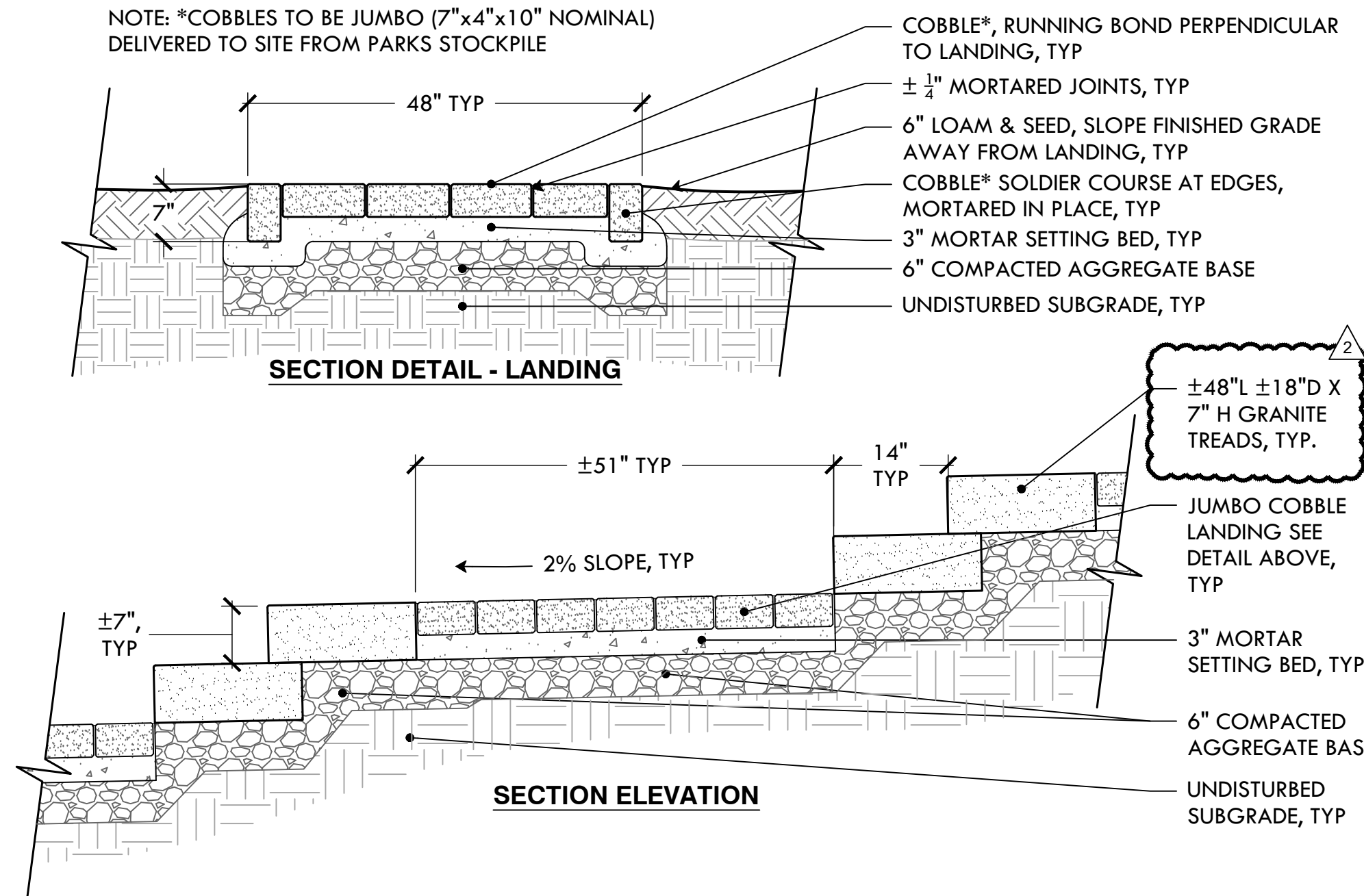
NOTES:
1. PROVIDE 5LB SAMPLE OF AGGREGATE PRIOR TO CONSTRUCTION
2. CONSTRUCT MIN 2'x5' MOCKUP FOR APPROVAL PRIOR TO CONSTRUCTION

11 EXPOSED AGGREGATE CONCRETE
NTS

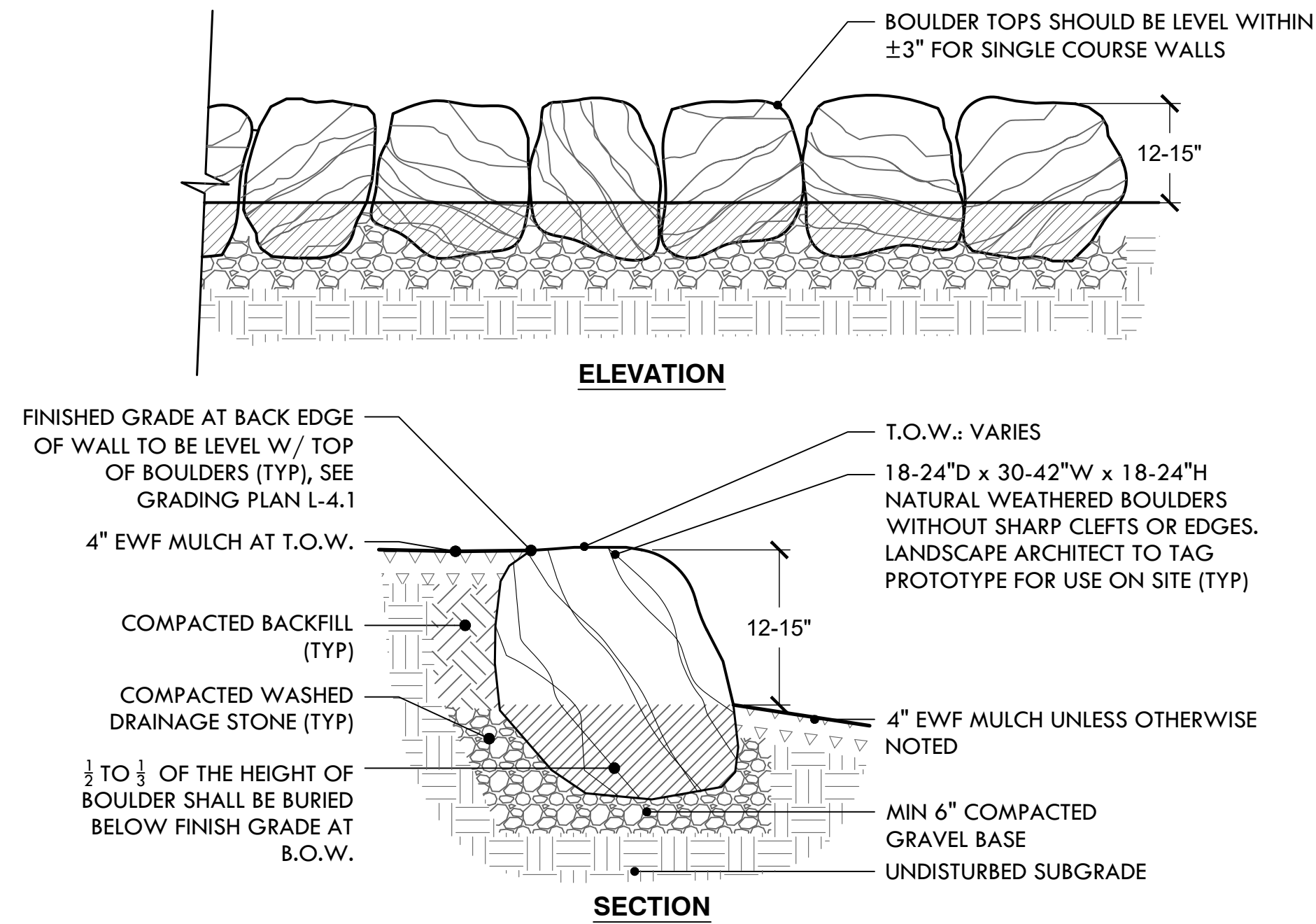


14 SYNTHETIC TURF AT CONCRETE EDGE
NTS

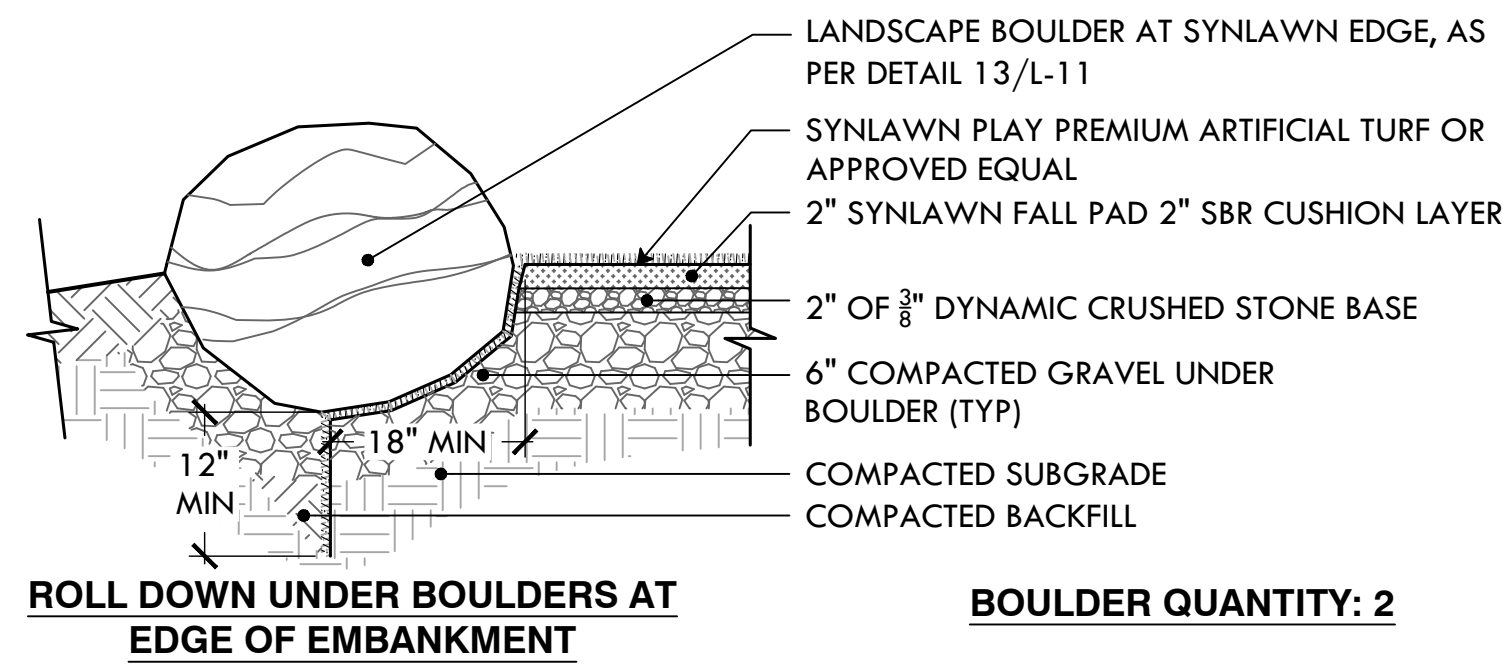
NOTE: *COBBLES TO BE JUMBO (7"x4"x10" NOMINAL) DELIVERED TO SITE FROM PARKS STOCKPILE



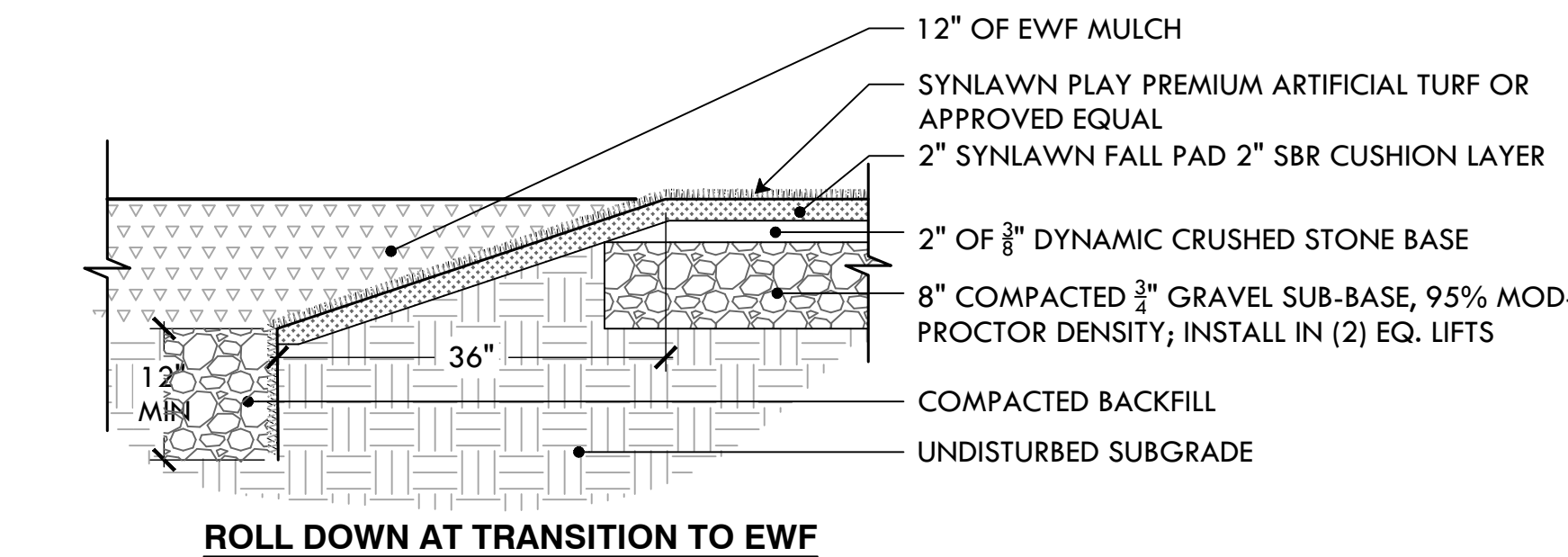
17 GRANITE STEPS W/ COBBLESTONE LANDING
NTS



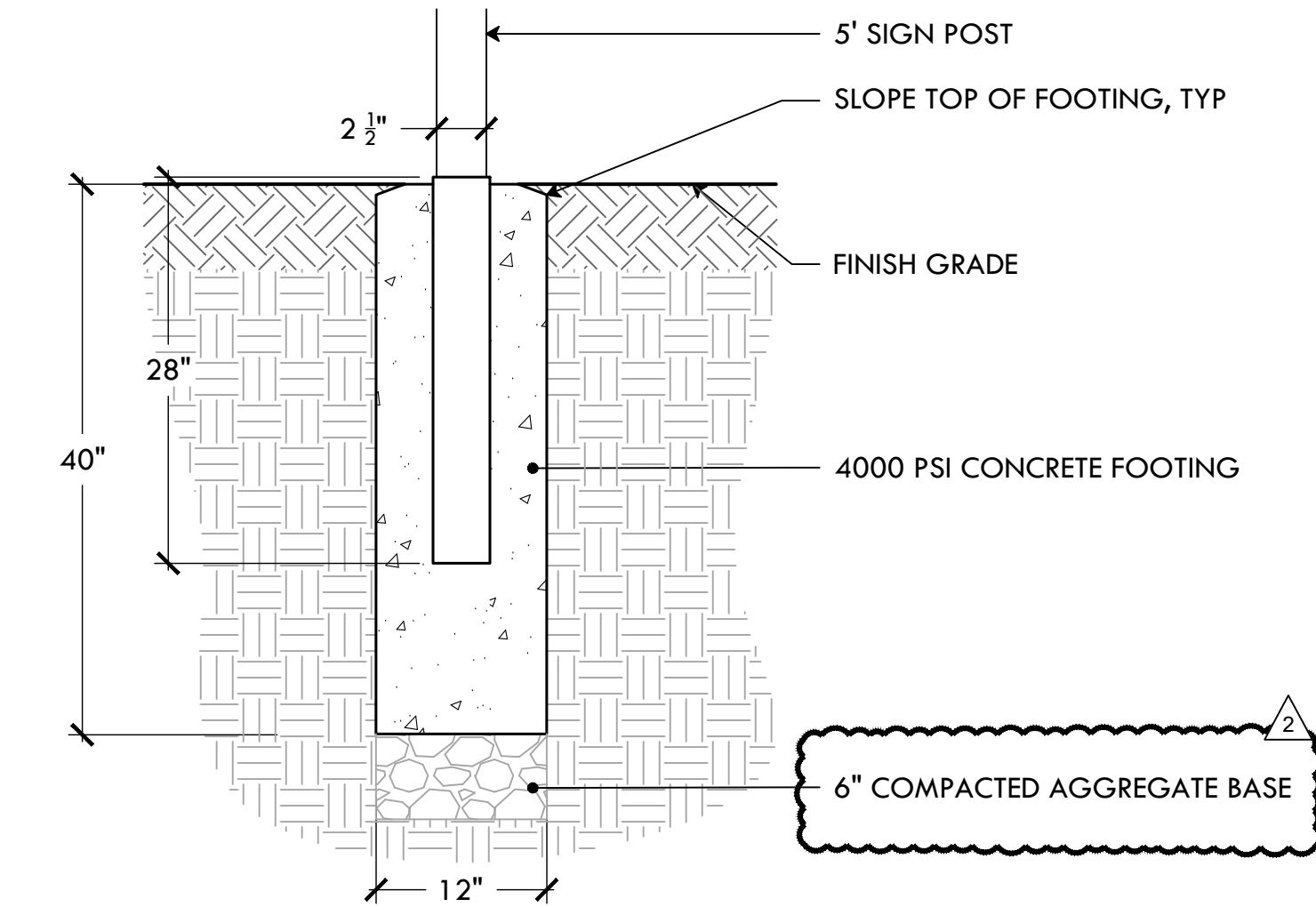
12 BOULDER WALL
NTS



BOULDER QUANTITY: 2



15 SYNTHETIC TURF ROLLDOWN EDGE
NTS



18 SIGN POST FOOTING
NTS



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Site Improvements at
Miguel Luna Park

110 Sackett St
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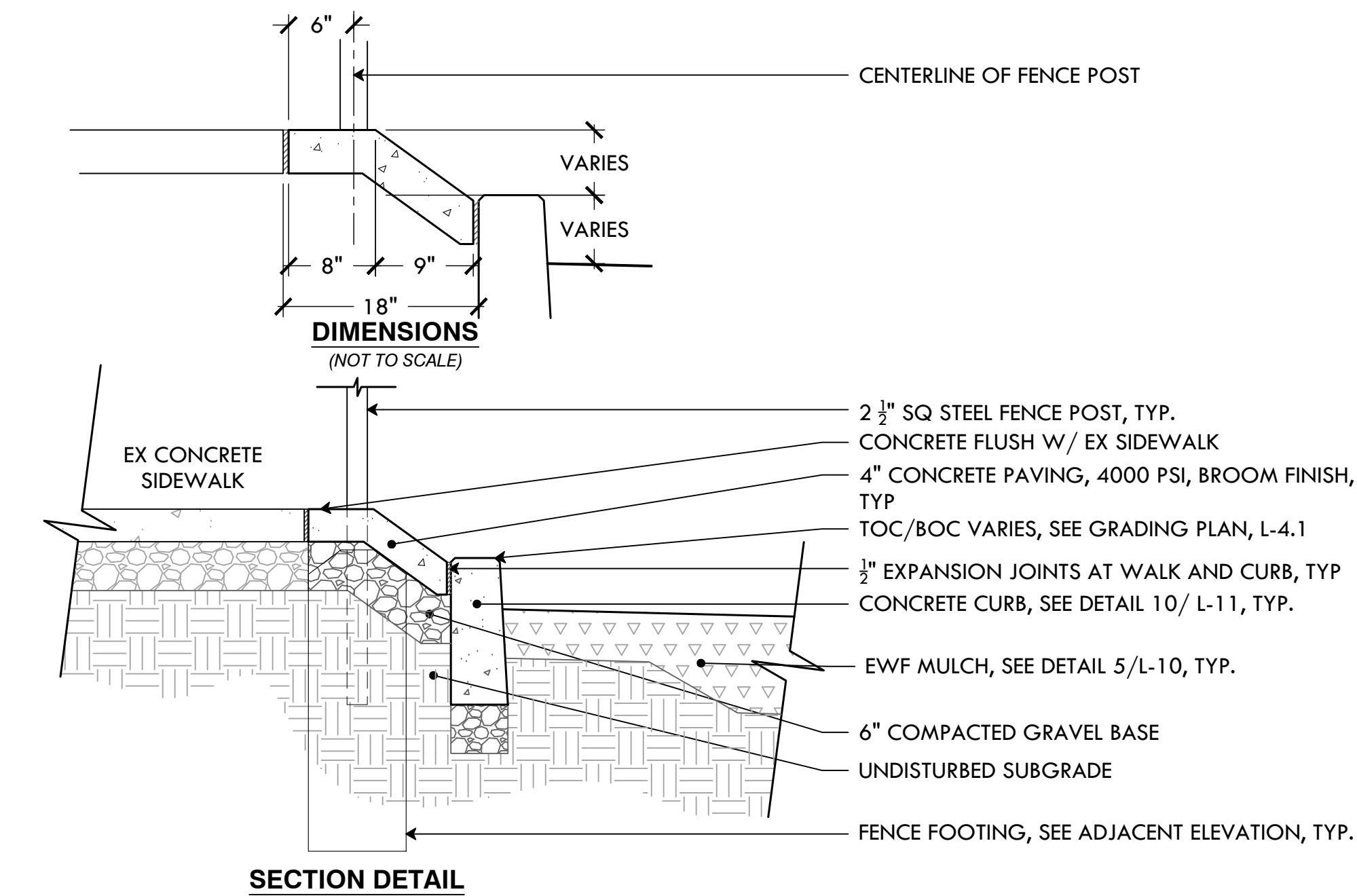
SHEET TITLE

Construction
Details

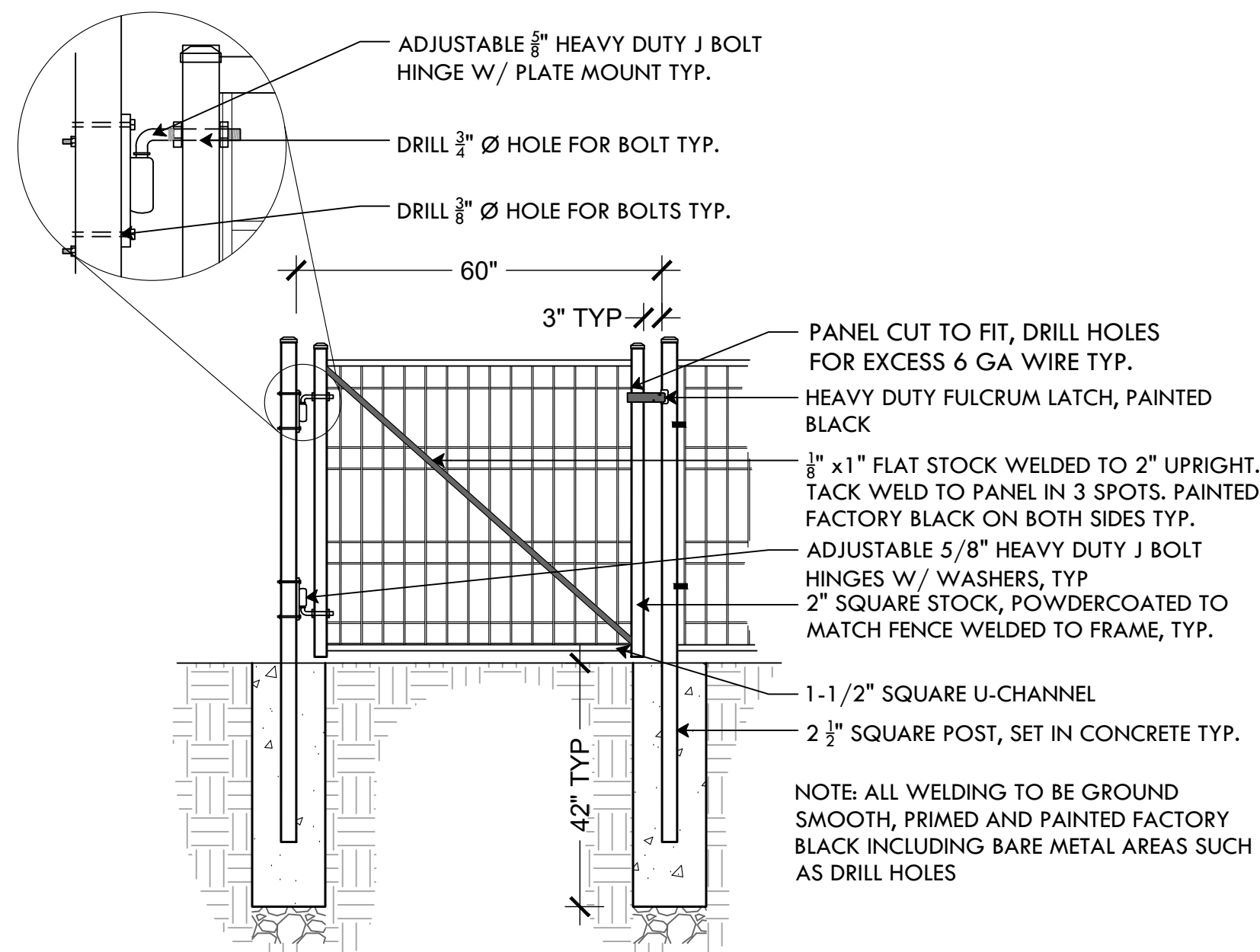
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14 OF 22

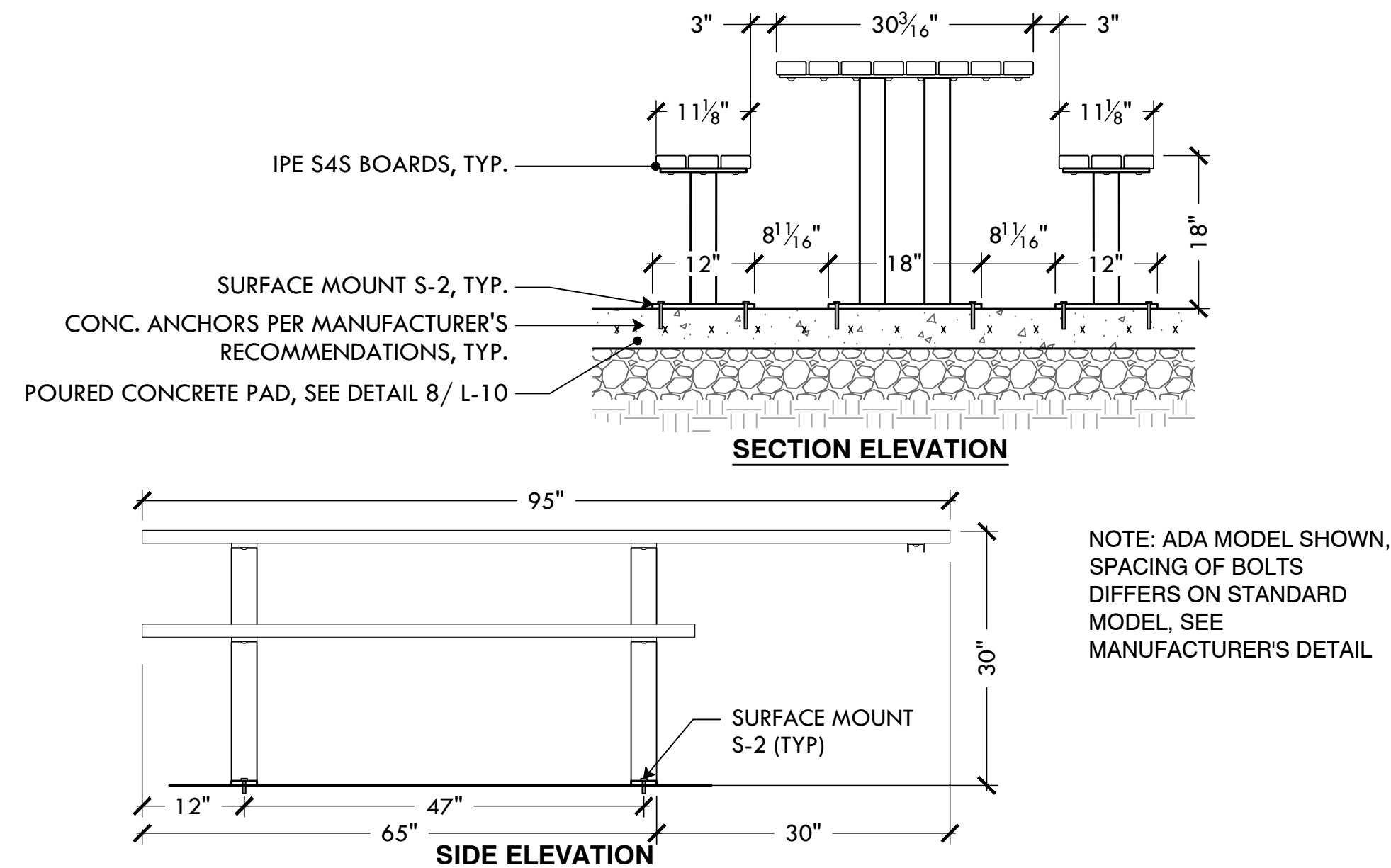
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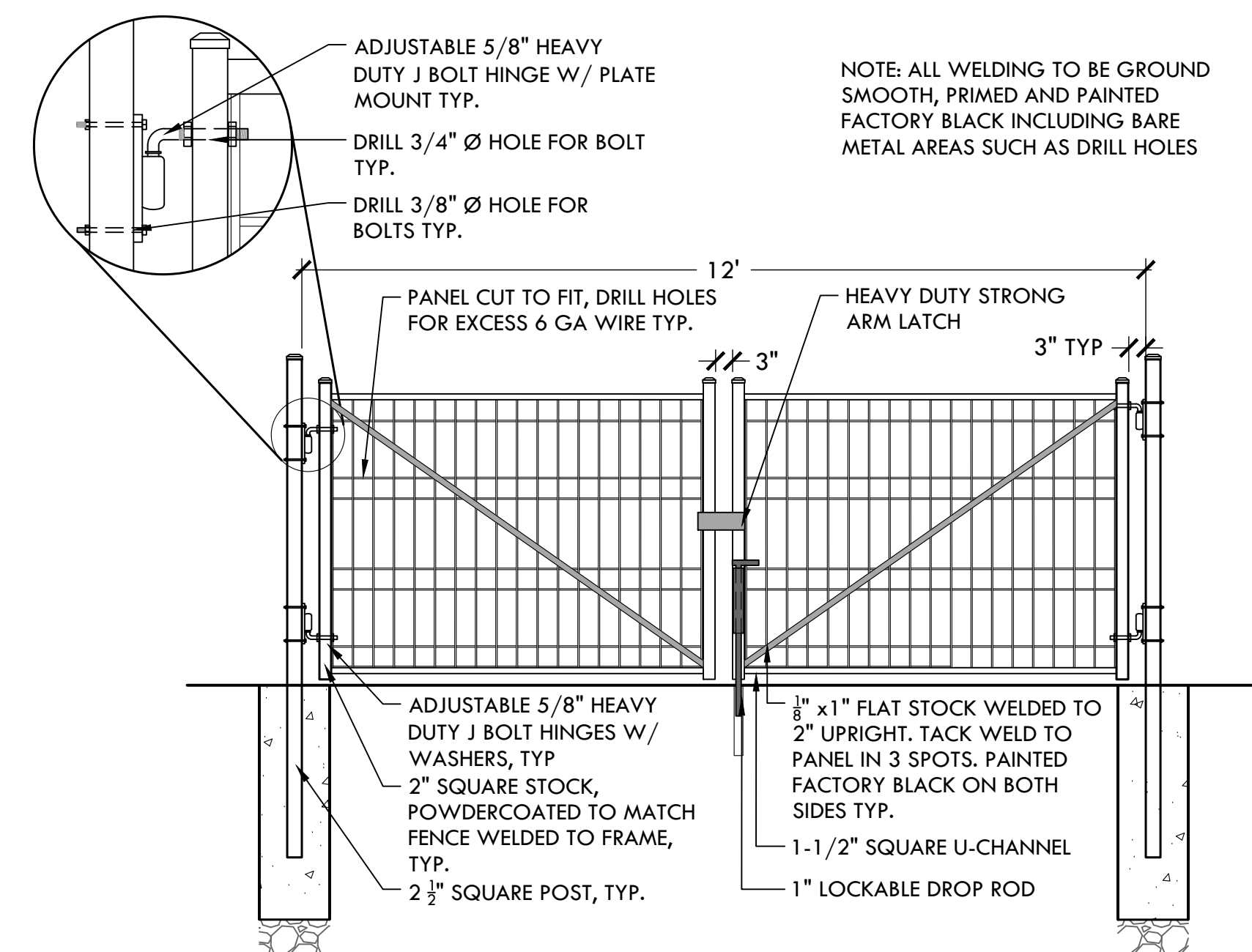
19 FENCE AT SIDEWALK
NTS



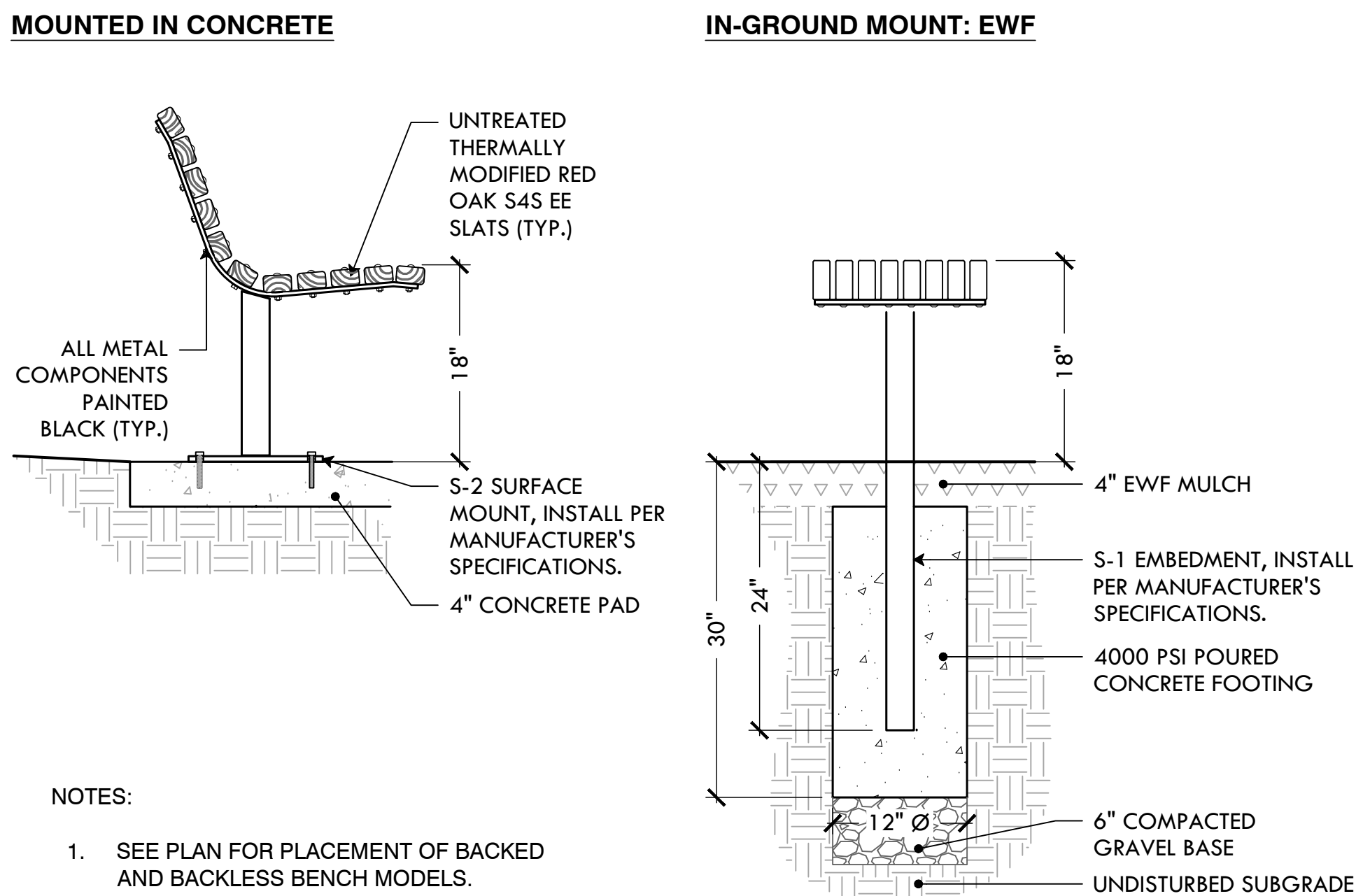
21 5' WIDE WELDED WIRE MESH GATE
NTS



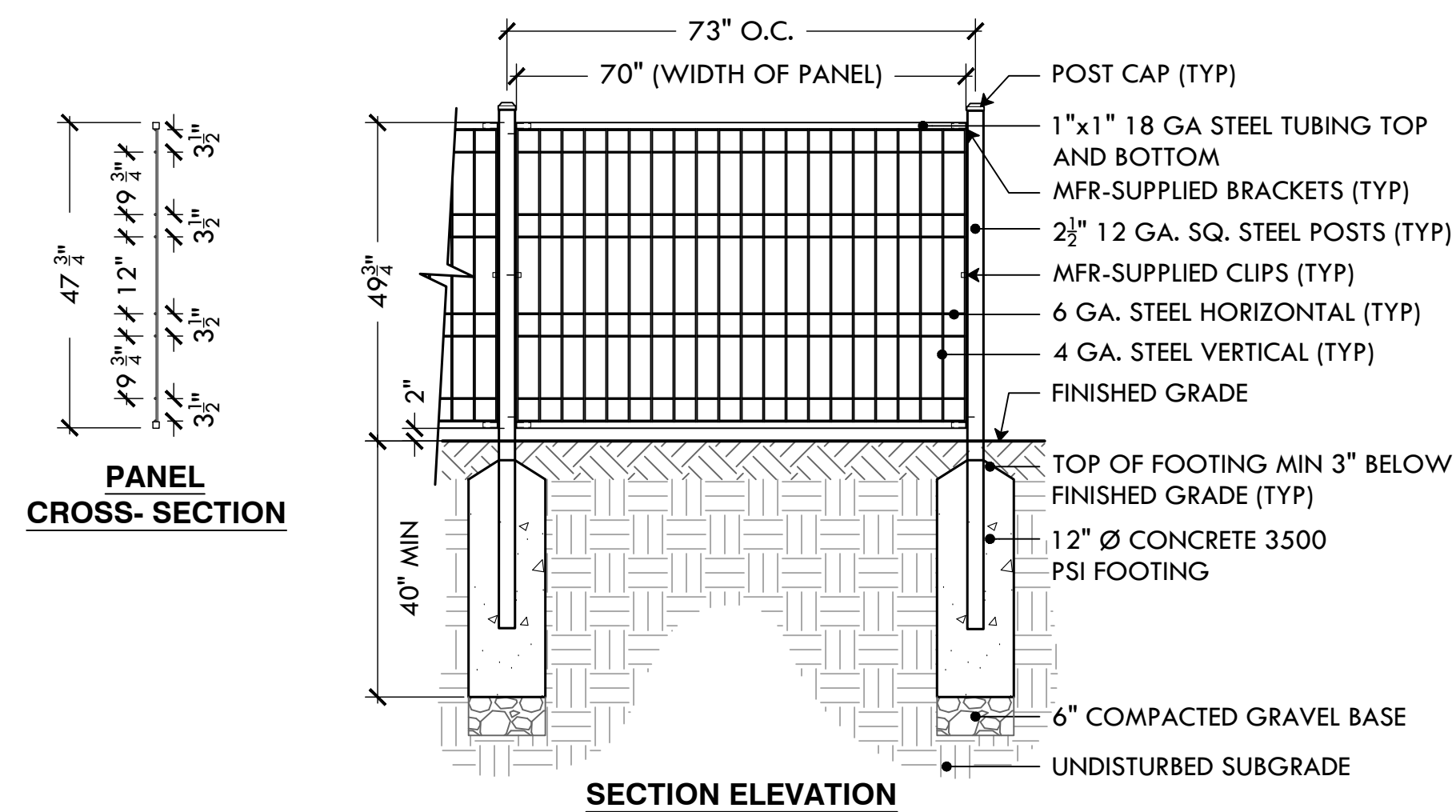
24 ADA PICNIC TABLE, SURFACE MOUNT
NTS



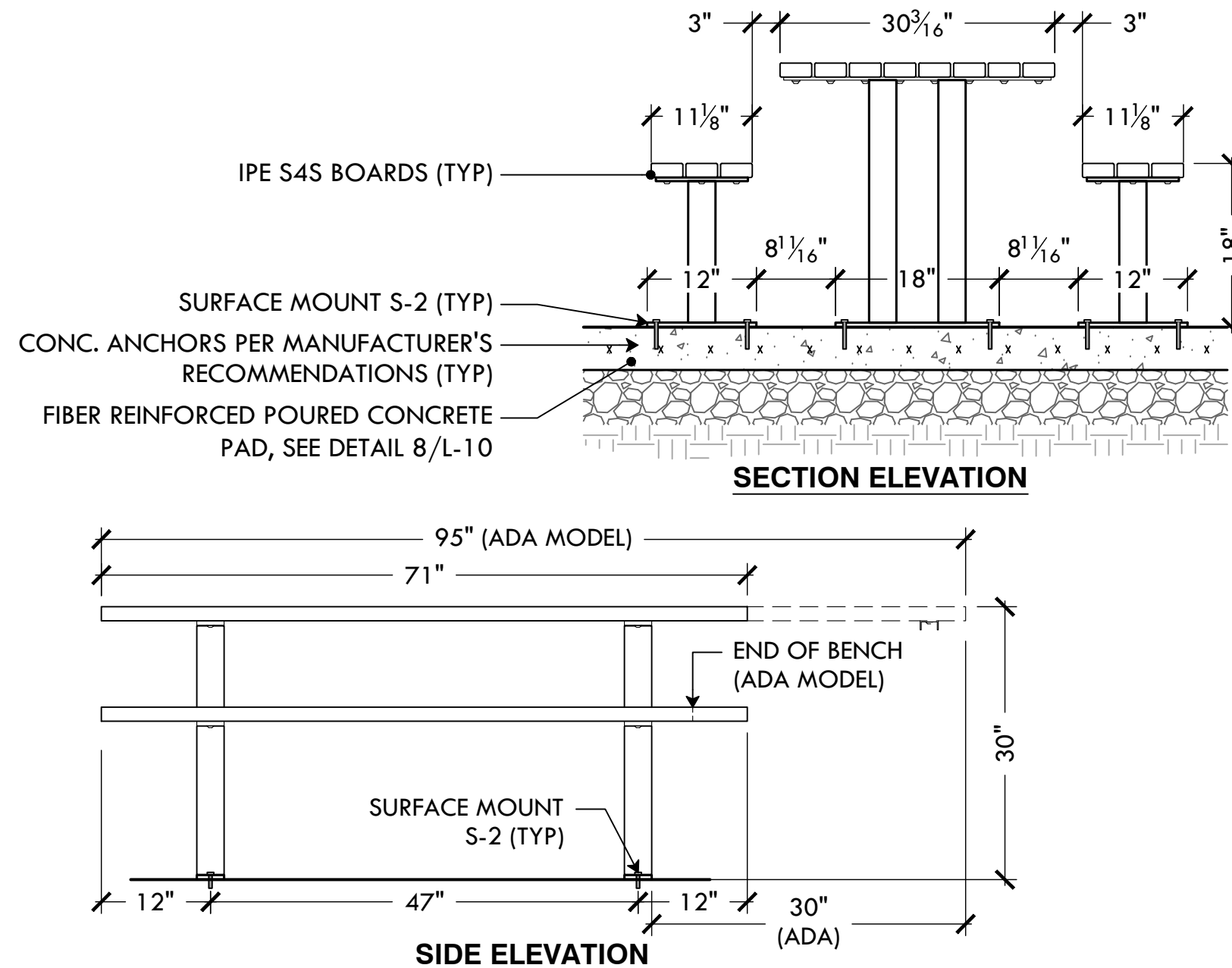
22 12' WELDED WIRE MESH SERVICE GATE
NTS



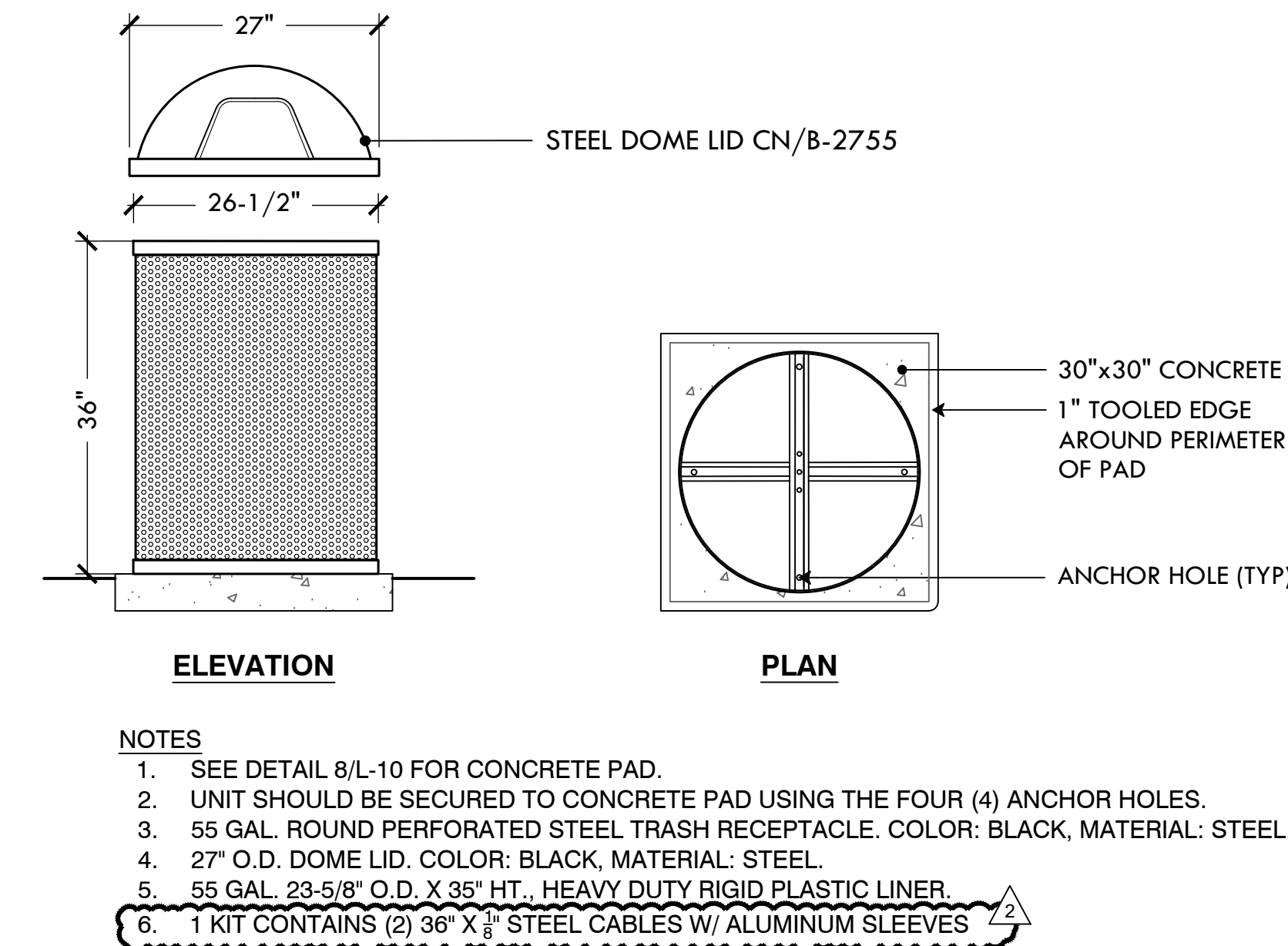
25 6' BENCH (IN GROUND & SURFACE MOUNT)
NTS



20 4' HT WELDED WIRE MESH FENCE
NTS



23 PICNIC TABLE, SURFACE MOUNT
NTS



26 TRASH RECEPTACLE ON CONCRETE PAD
NTS



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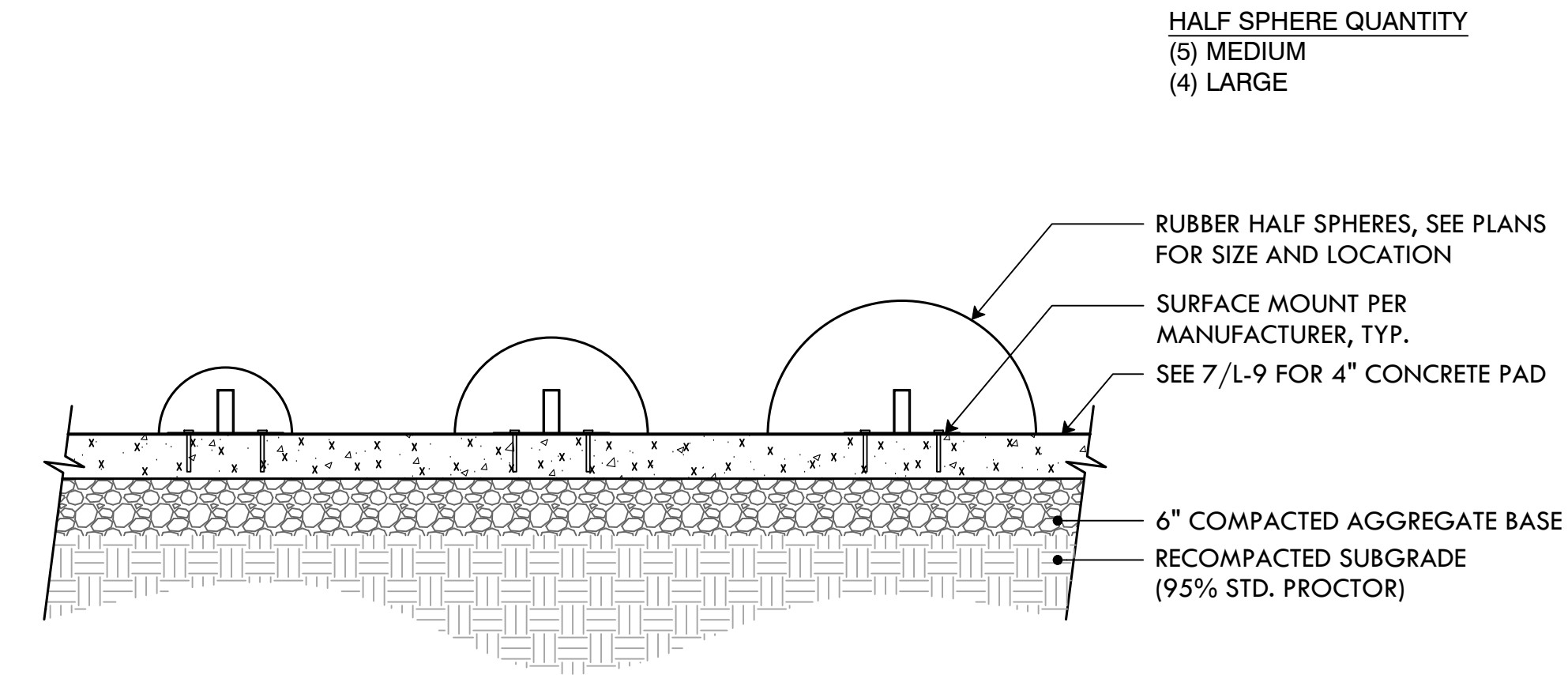
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Construction
Details

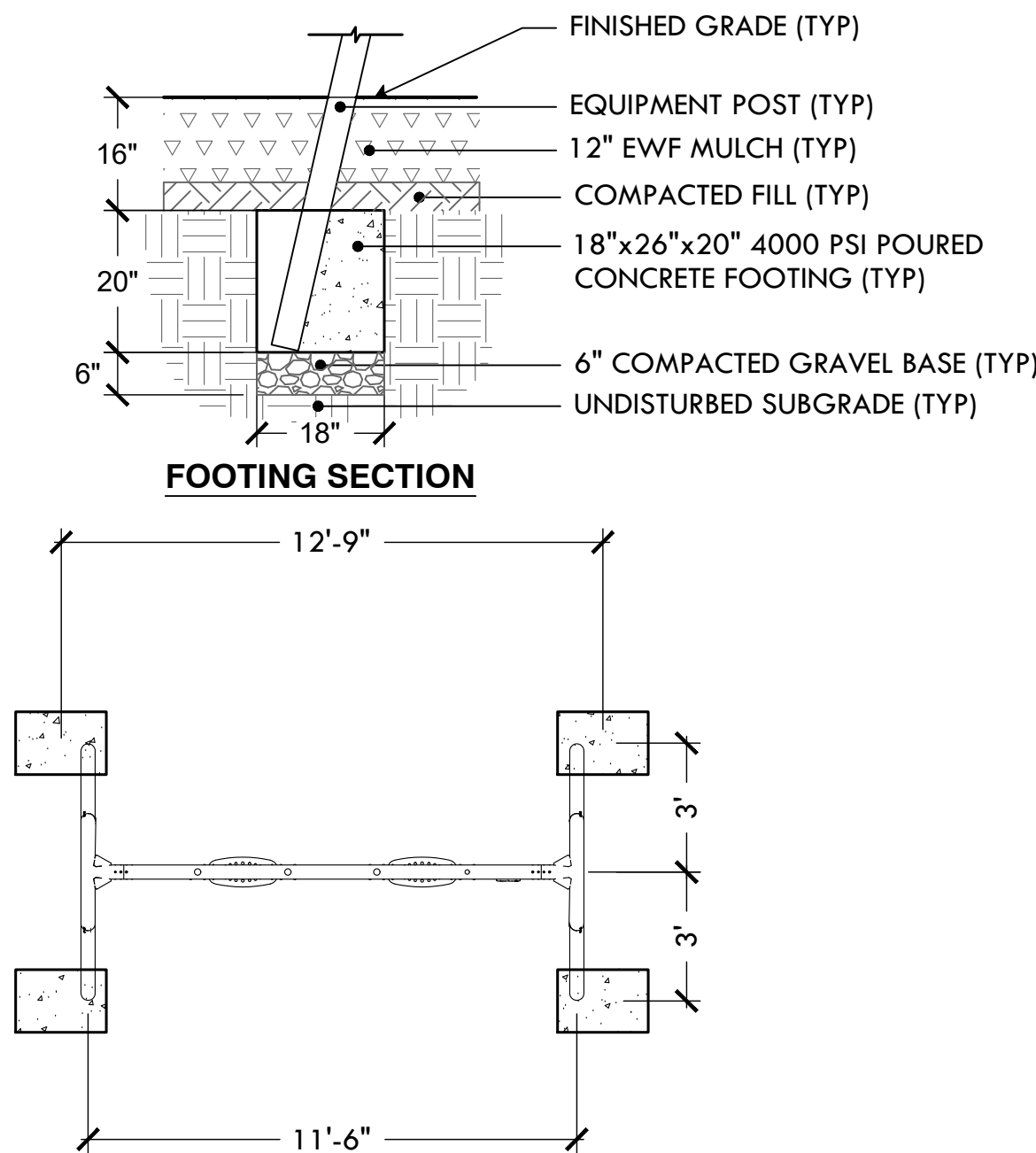
L-12

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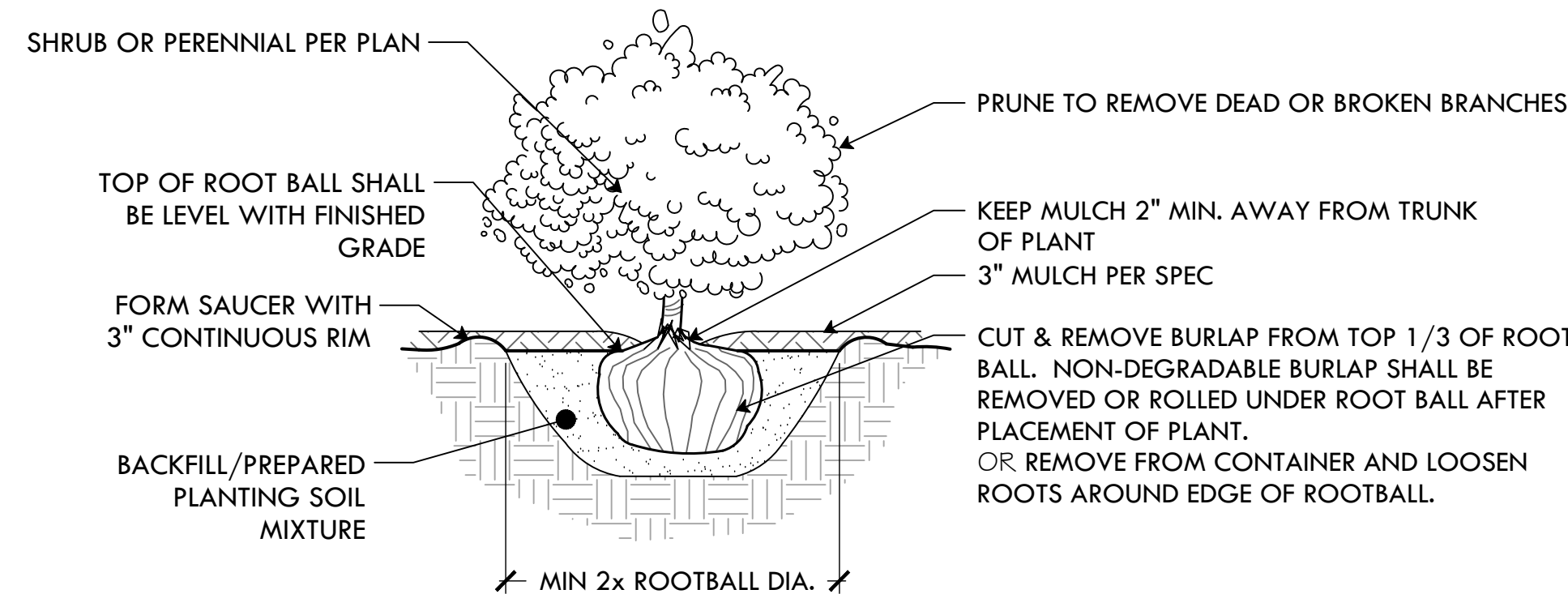
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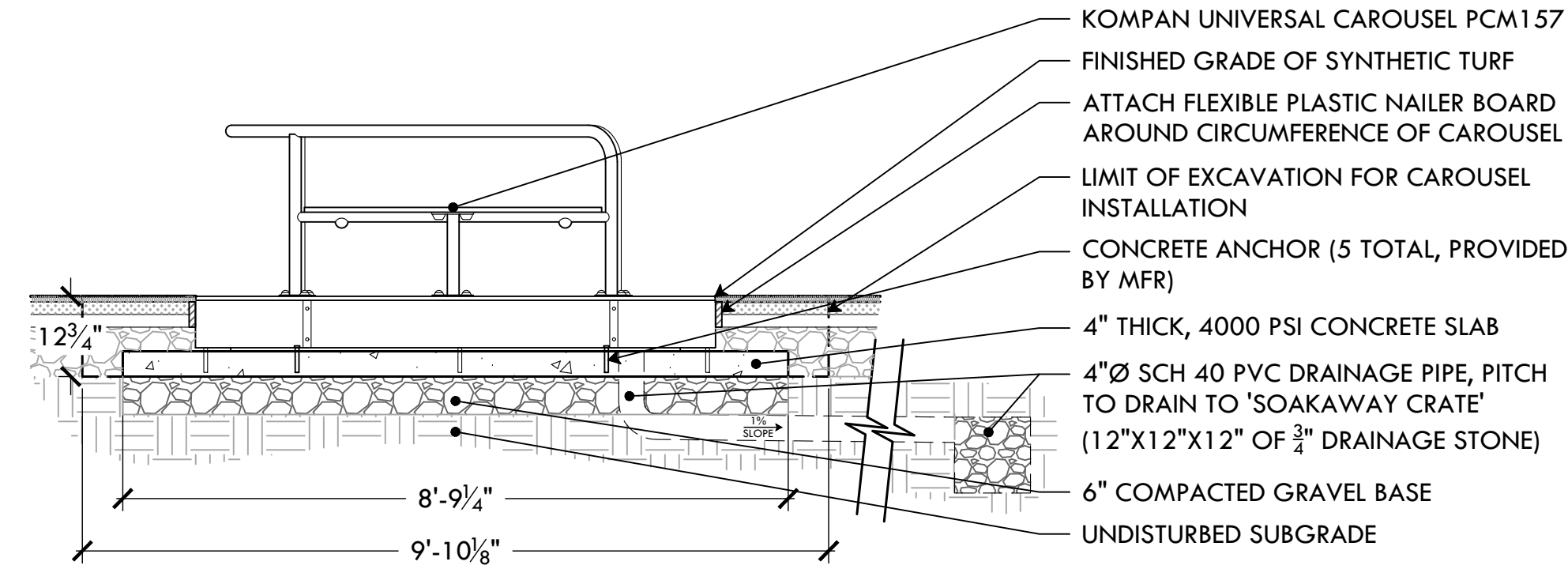
27 GORIC SPHERES AND HALF SPHERES
NTS



30 KOMPAN-TOT SWING FOOTING LAYOUT
NTS

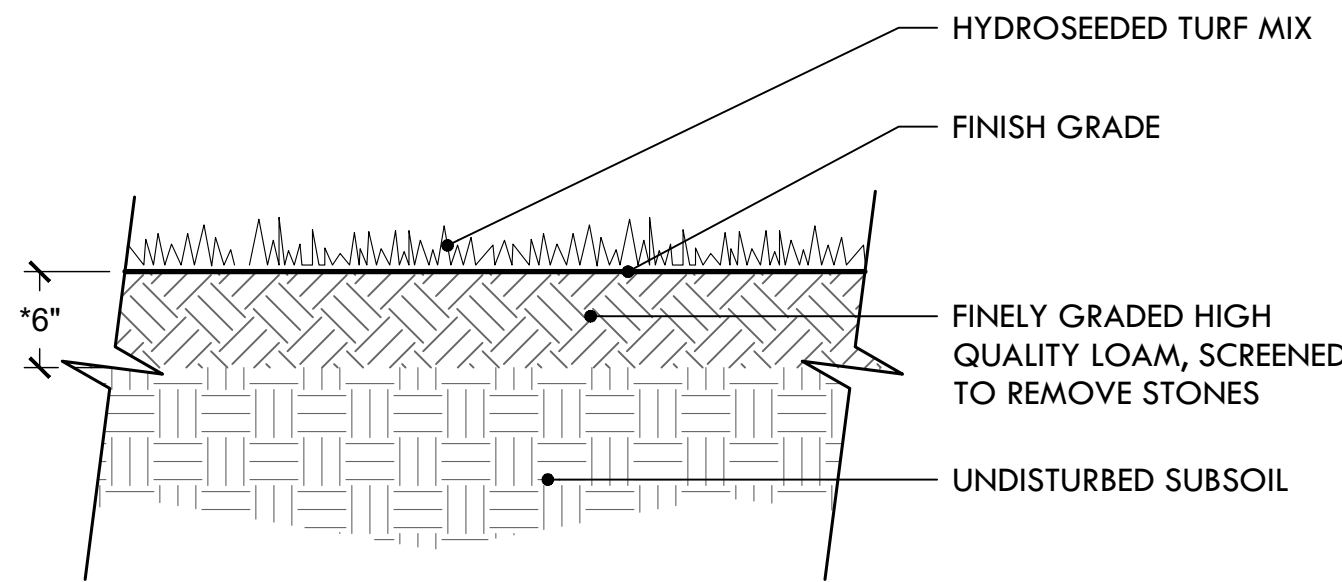


33 SHRUB PLANTING
NTS



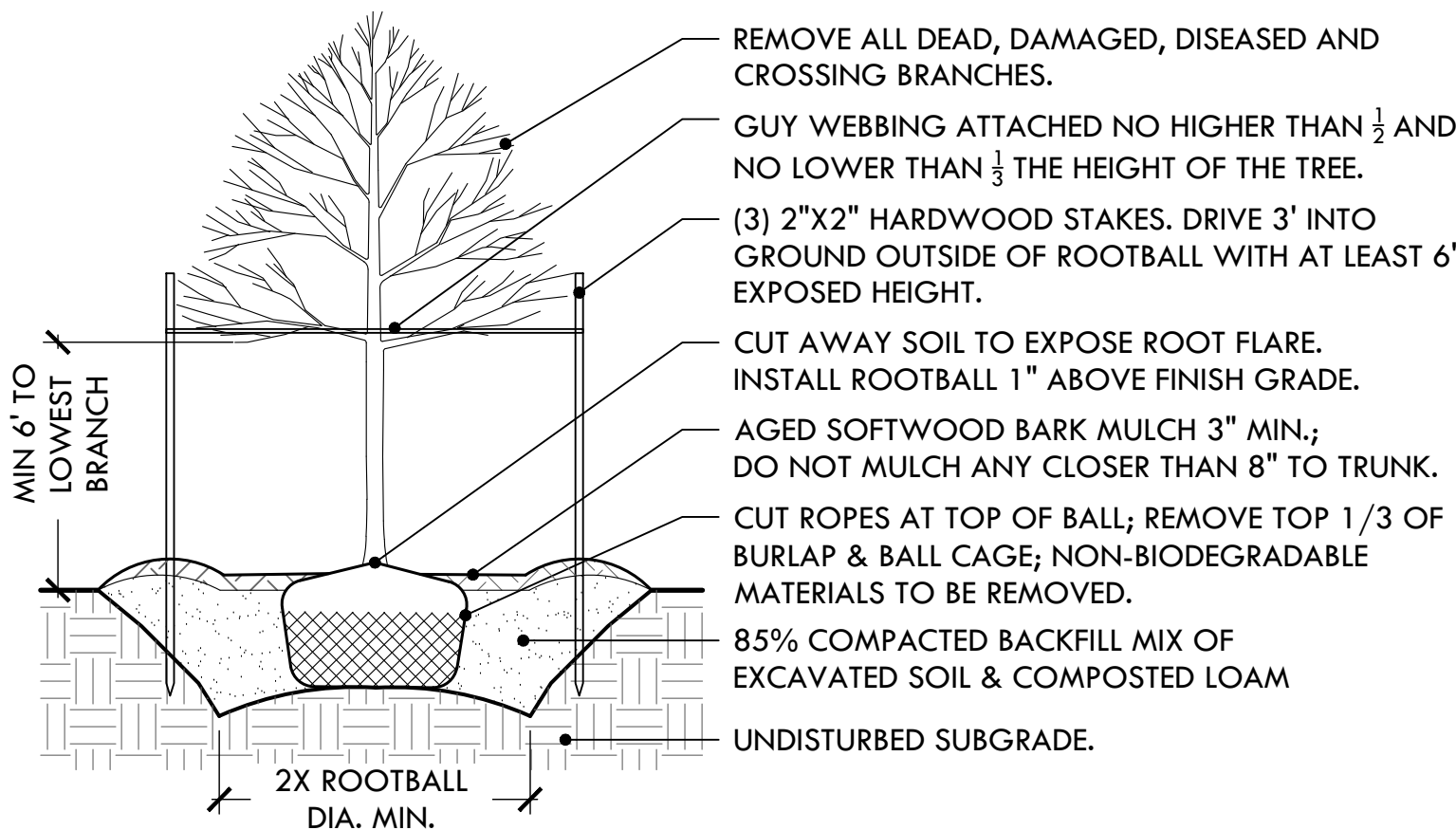
28 KOMPAN-UNIVERSAL CAROUSEL FOOTING LAYOUT
NTS

GRASS SEED MIX	
30%	IMPROVED PERENNIAL RYE
30%	TURF TYPE TALL FESCUE
35%	CHEWINGS FESCUE
5%	MINIATURE OR DUTCH WHITE CLOVER

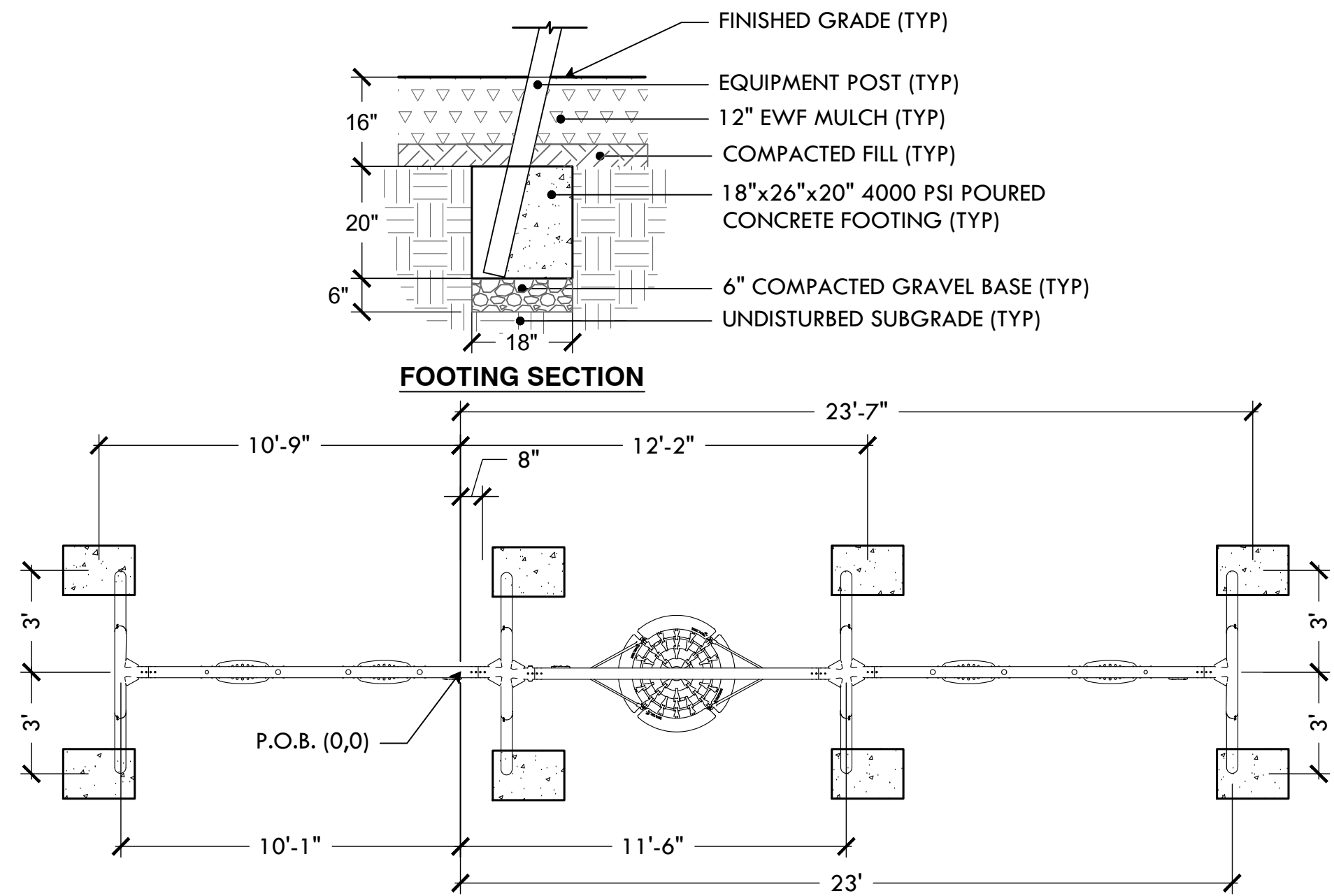


- NOTES:
1. USE A PROCESSED WOOD FIBER MULCH OR WOOD/PAPER BLEND
 2. ADD DOLOMITIC LIME AND 18-24-12 STARTER FERTILIZER TO LOAM PRIOR TO HYDROSEEDING
 3. *DEPTH OF LOAM MAY BE LESS THAN 6" IN AREAS OF TRANSITION (FEATHERING) TO EXISTING LAWN AND FOR REPAIR TO DISTURBED AREAS.
 4. LIGHTLY DISTURBED AREAS TO BE AERATED, TOP-DRESSED W/ LOAM & SLICE-SEEDED.

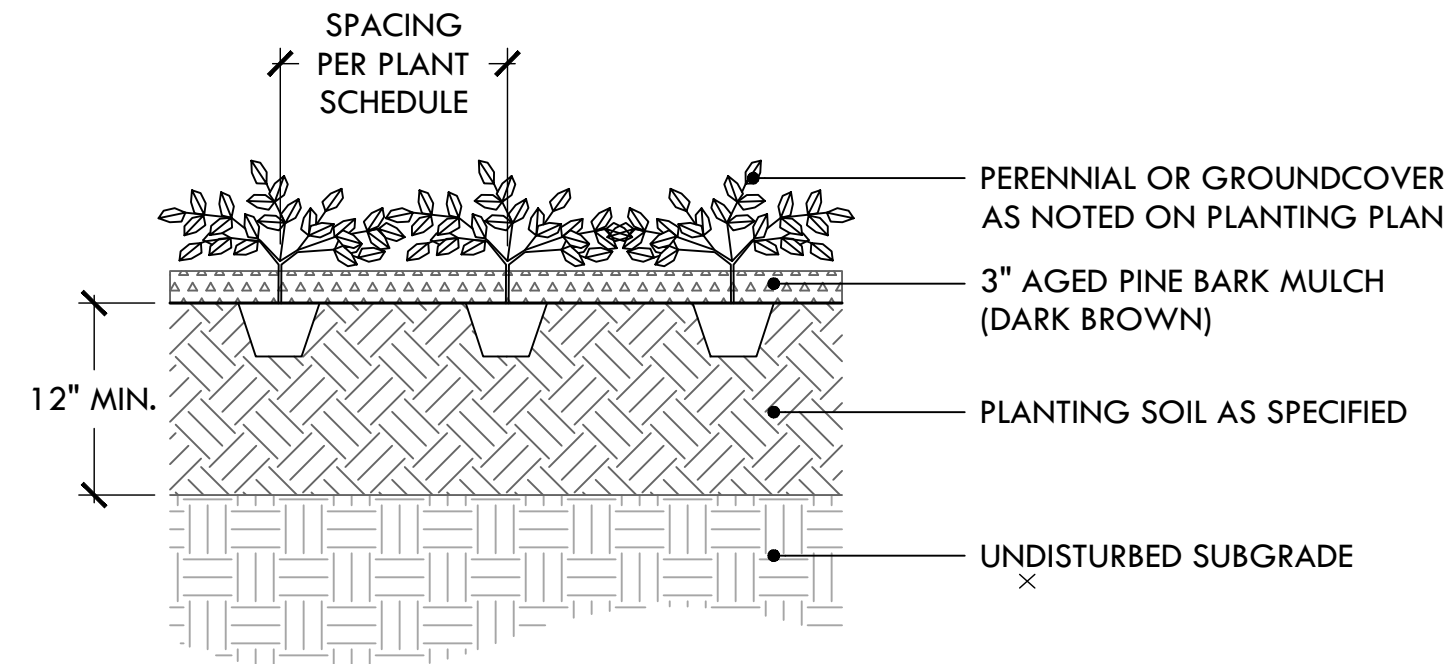
31 LOAM AND HYDROSEED
NTS



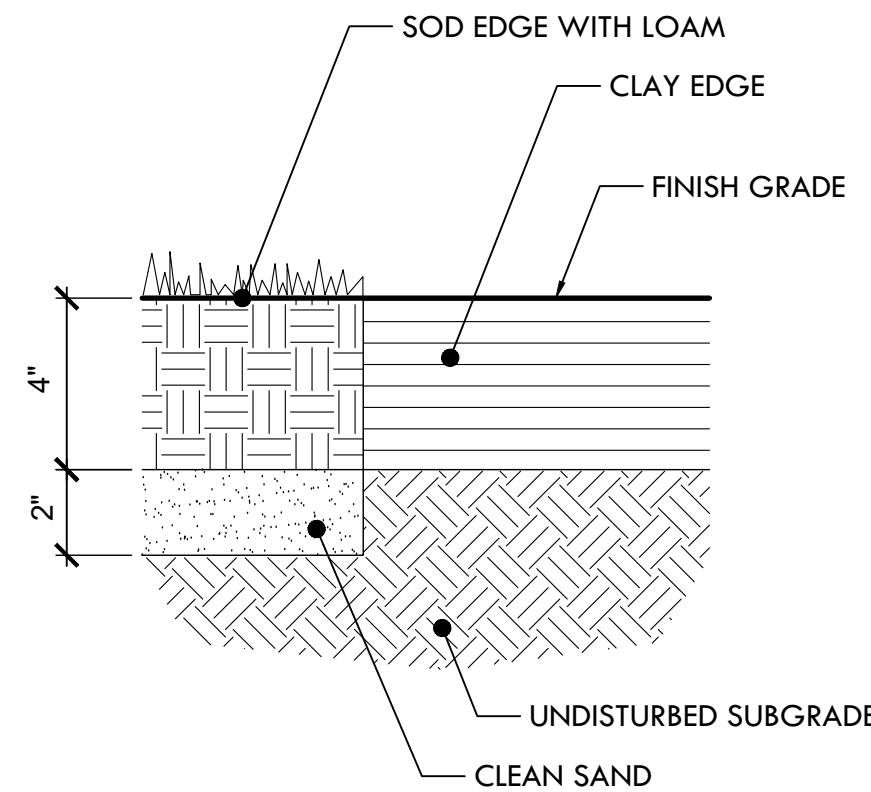
34 DECIDUOUS TREE PLANTING
NTS



29 KOMPAN- 3 BAY SWING WITH NEST FOOTING LAYOUT
NTS



32 PERENNIAL AND GROUNDCOVER PLANTING
NTS



NOTES

1. SAND: 65% TO 69% OF THE TOTAL SAND CONTENT, 45% TO 50% SHALL BE COMPOSED OF MEDIUM, COARSE, AND VERY COARSE SAND PARTICLES.
2. SILT & CLAY: THE COMBINED AMOUNT OF SILT AND CLAY SHALL BE BETWEEN 31% AND 35%. THE SILT-TO-CLAY RATIO. SHALL BE BETWEEN 0.5 AND 1.0.

35 ADD ALT #2: SOD AT INFIELD EDGE
NTS



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ROGER WILLIAMS PARK
PROVIDENCE, RI 02905



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**Site Improvements at
Miguel Luna Park**

**110 Sackett St
Providence, RI**

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NORTH ARROW

SCALE

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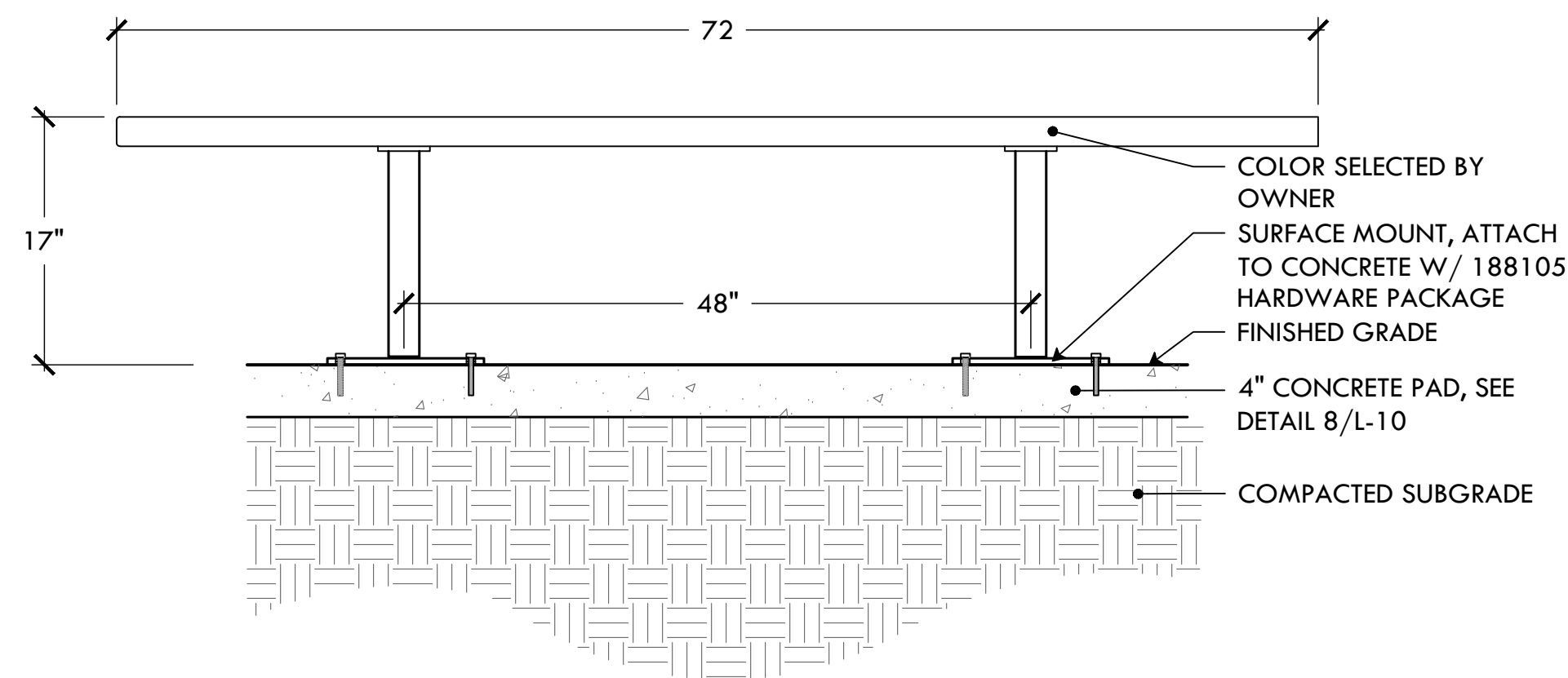
SHEET TITLE

**Construction
Details**

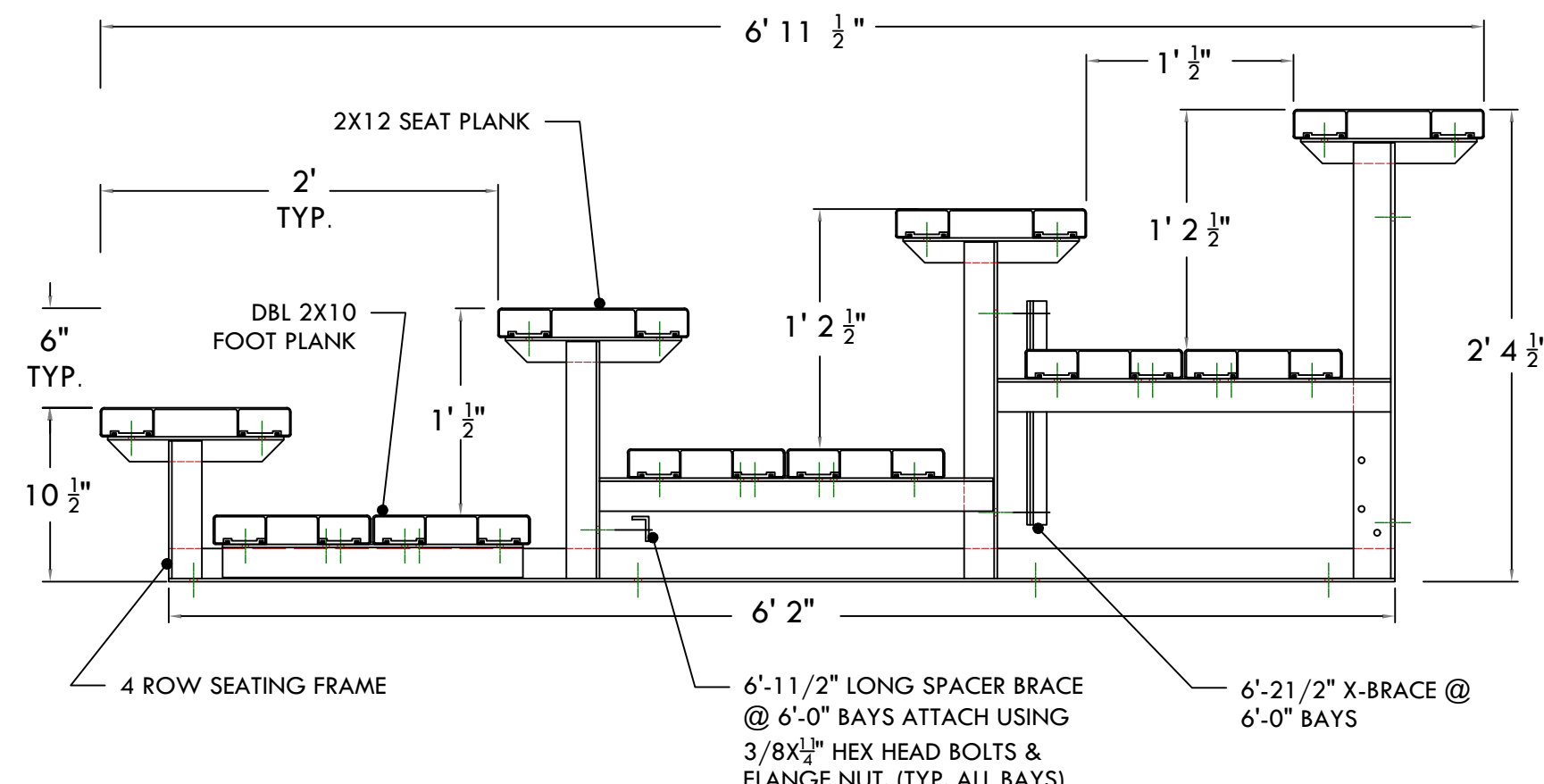
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16 OF 22

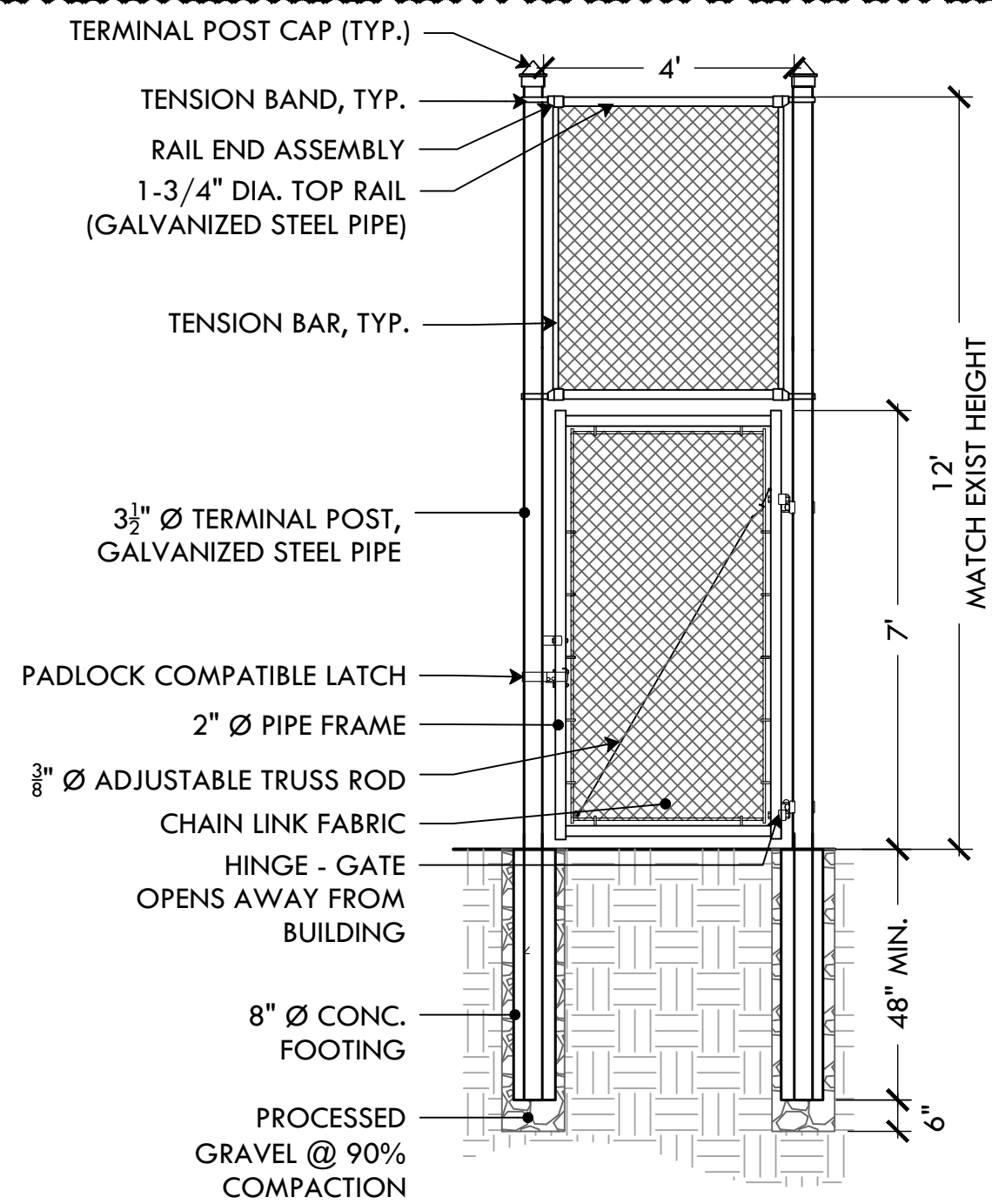
FILE: MIGU.22.01-DETAILS.dwg



36 ADD ALT #1: PLAYERS BENCH
NTS

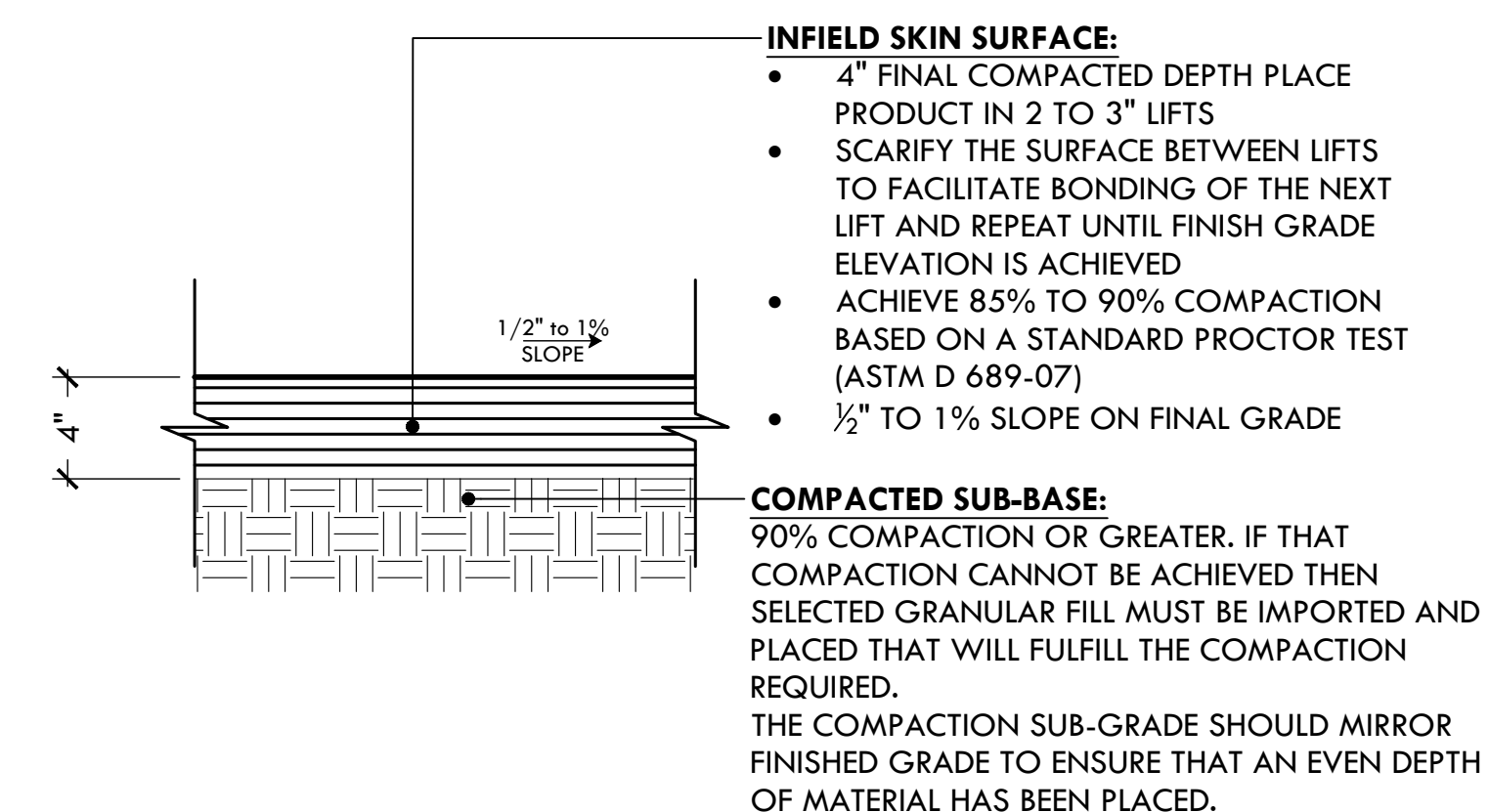


39 ADD ALT #3: 3 ROW BLEACHER ON CONCRETE PAD
NTS



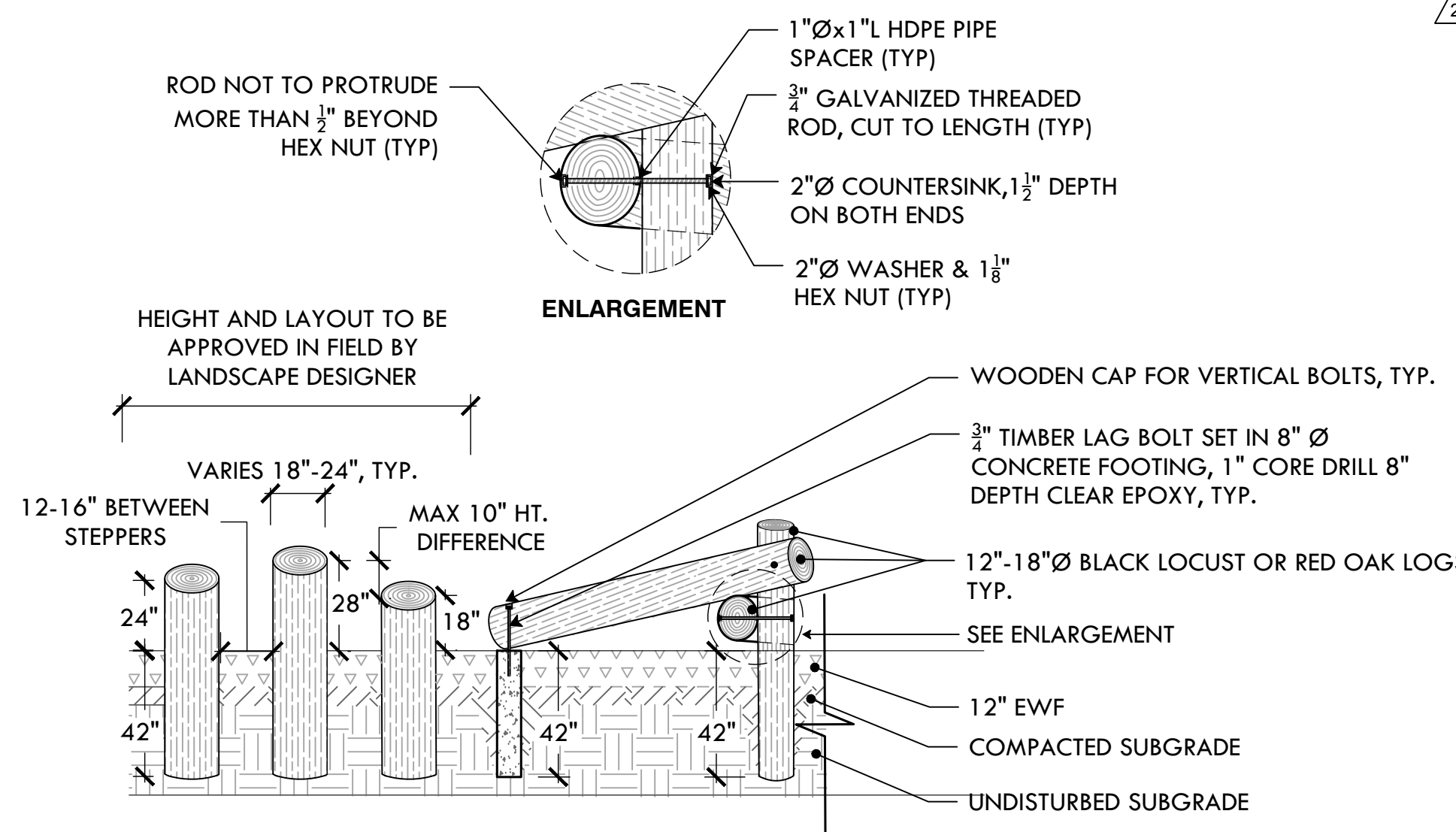
42 ADD ALT #4: 4' WIDE CHAIN LINK PEDESTRIAN GATE
NTS

- NOTES:**
- FENCING TO BE TIED TO TOP RAILS & LINE POSTS W/ 9GA. WIRE SPACED AT 12"
 - SECURE EXISTING CL MESH WITH CORRESPONDING TENSION BANDS AND BARS TO MATCH TOP PANEL
 - BRACE ALL CORNERS & TERMINAL POSTS W/ 1-3/4" DIA. STEEL PIPE AND APPROPRIATE FASTENERS
 - ALL FENCE ELEMENTS SHALL BE OF STEEL CONSTRUCTION



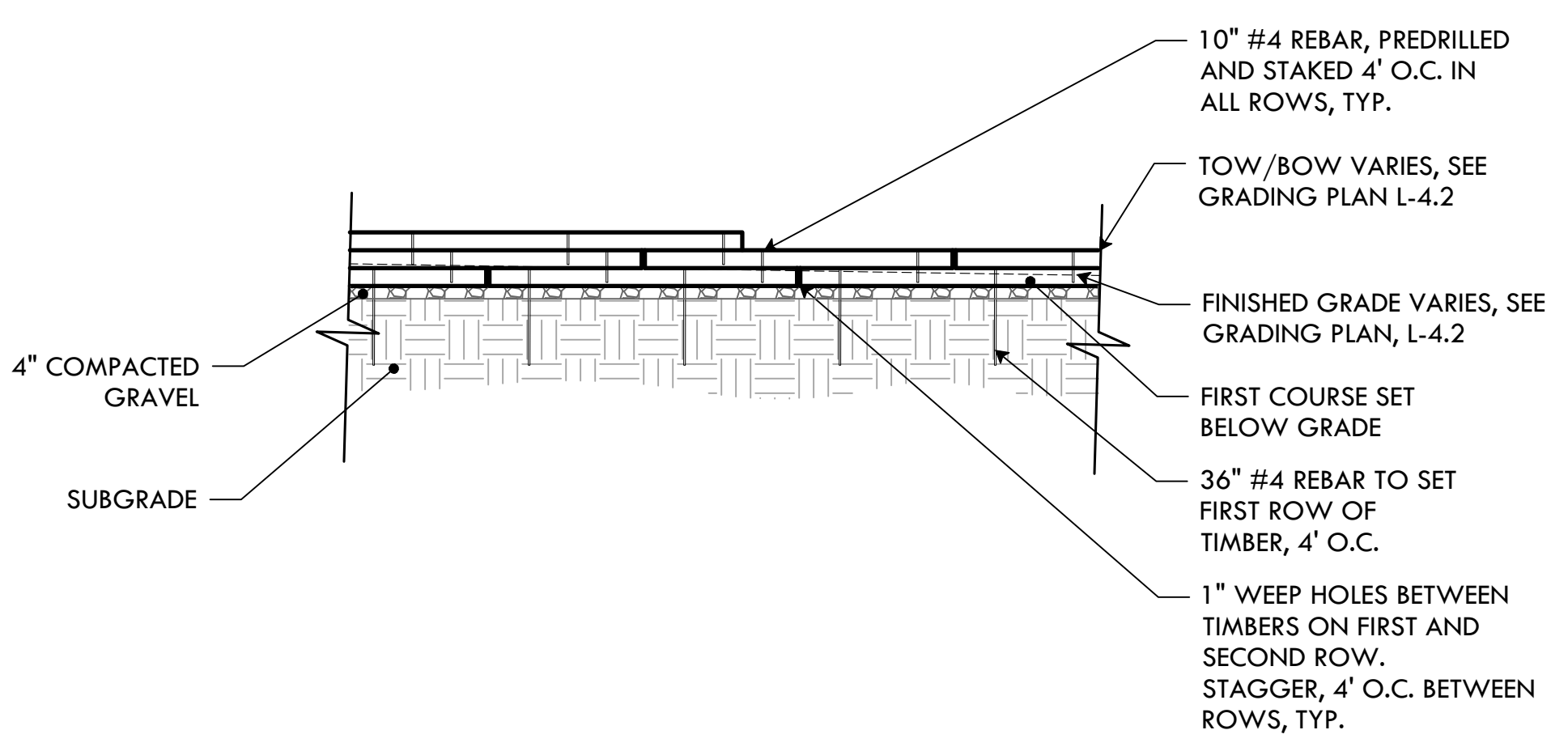
- NOTES**
- SAND: 70% TO 75% OF THE TOTAL SAND CONTENT, 50% SHALL BE COMPOSED OF MEDIUM, COARSE, AND VERY COARSE SAND PARTICLES.
 - SILT & CLAY: THE COMBINED AMOUNT OF SILT AND CLAY SHALL BE BETWEEN 25% AND 30%. THE SILT-TO-CLAY RATIO. SHALL BE BETWEEN 0.5 AND 1.0.

37 ADD ALT #2: INFIELD MIX
NTS

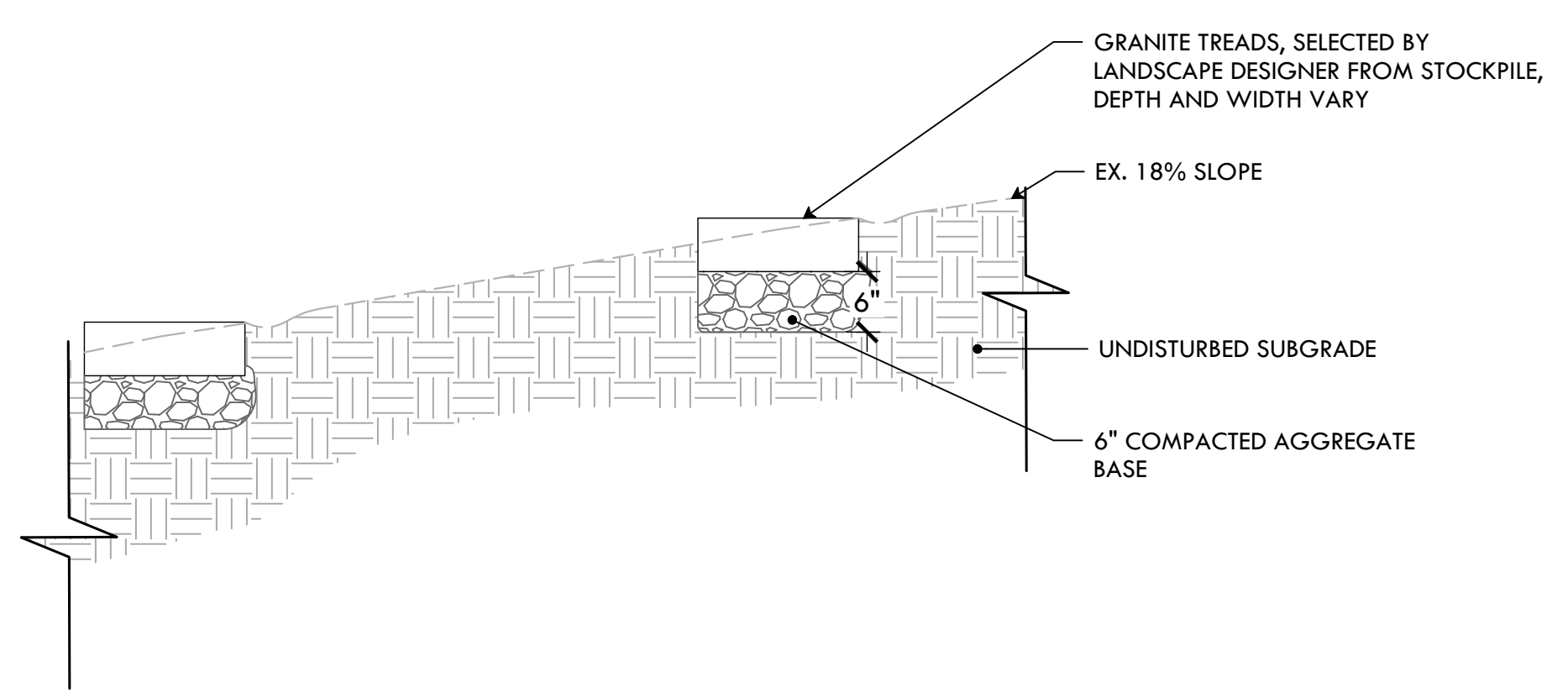


- NOTES:**
- BARK TO BE REMOVED FROM LOGS MANUALLY AND ALL BRANCHES SHALL BE CUT FLUSH TO LOG AND SANDED.
 - 1" SPACER SHALL BE 1" BLACK HDPE PIPE CUT TO LENGTH OR APPROVED EQUAL
 - 1 1/2" COUNTERSINK ALL TIMBER BOLT CONNECTIONS (BOTH ENDS), NO METAL SHALL PROTRUDE FROM SURFACE.
 - USE 3/4" x 24"-30" GALVANIZED TIMBER BOLTS W/ ASSOCIATED GALV. NUT & LOCK WASHER
 - TREAT ALL EXPOSED SANDED WOOD SURFACES WITH HOWARD SUNSHIELD CONDITIONER

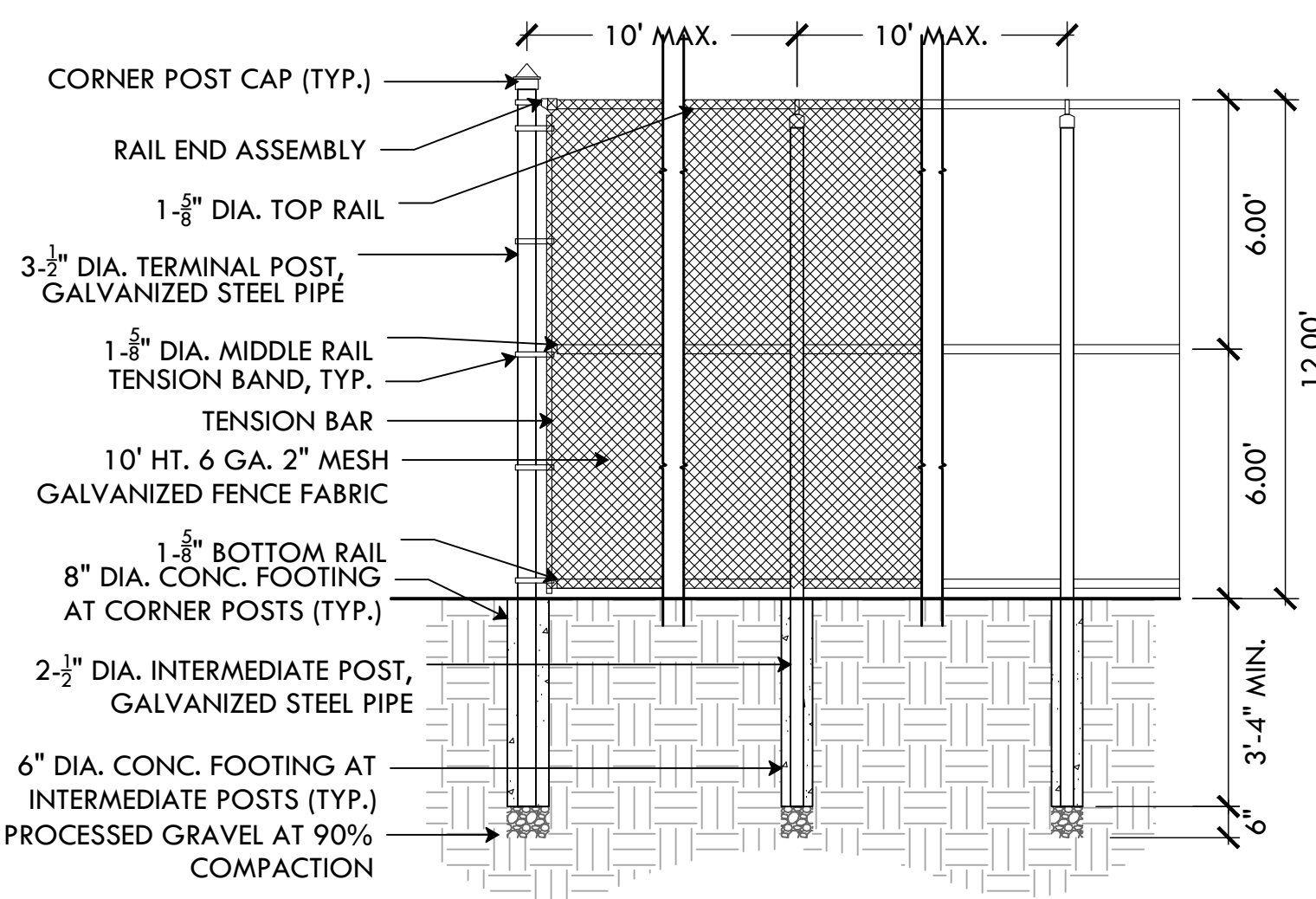
40 ADD ALT #9: LOG SCRAMBLE
NTS



43 ADD ALT #5 & #6: TIMBER RETAINING WALL- ELEVATION & SECTION
NTS

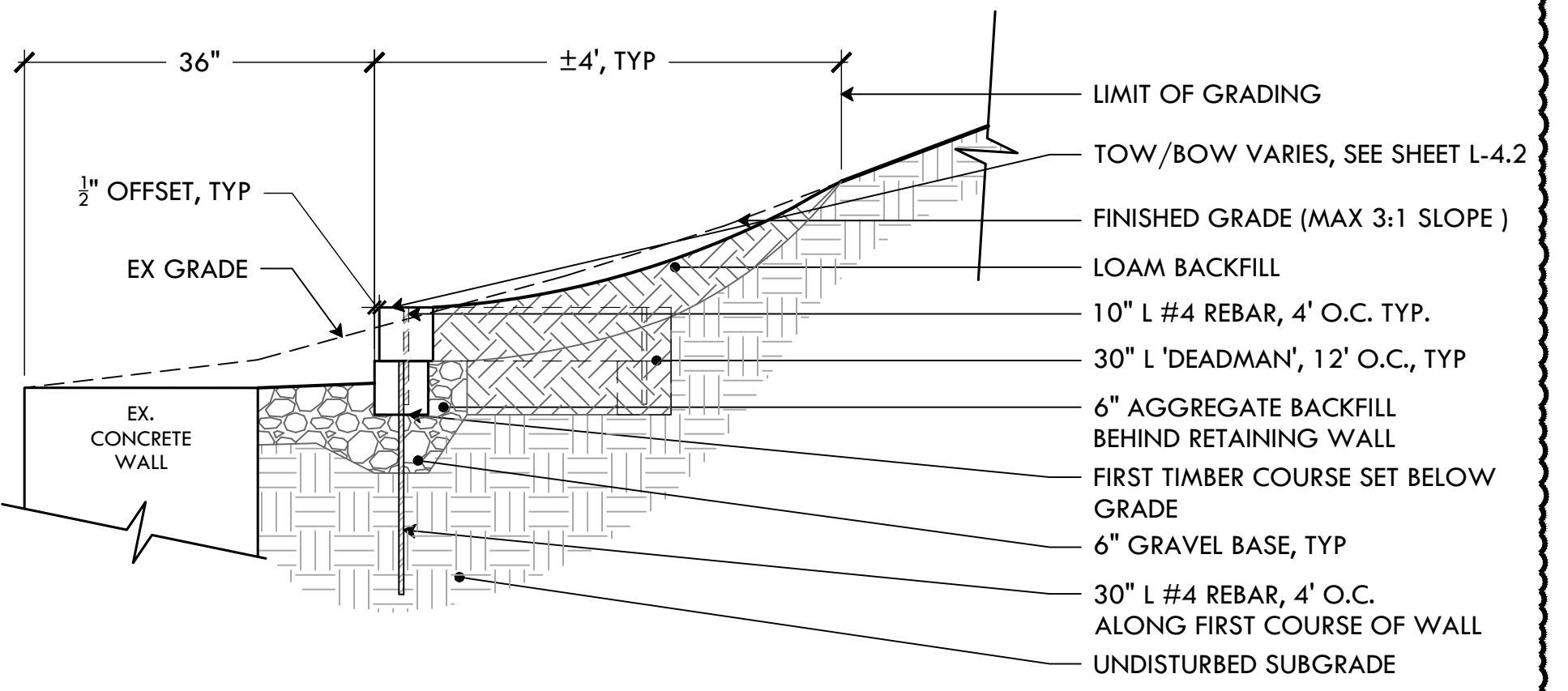


38 ADD ALT #11 :SALVAGED GRANITE TREADS WITH GRAVEL BASE
NTS



- NOTES:**
- FENCING TO BE TIED TO ALL RAILS & LINE POSTS W/ 9GA. WIRE SPACED AT 12"
- BRACE ALL CORNERS & TERMINAL POSTS W/ 1-3/4" DIA. GALV. STEEL PIPE AND APPROPRIATE FASTENERS

41 ADD ALT #4: 12' CHAIN LINK FENCE
NTS



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PROJECT:

Site Improvements at Miguel Luna Park

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Providence, RI**

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NORTH ARROW

SCALE

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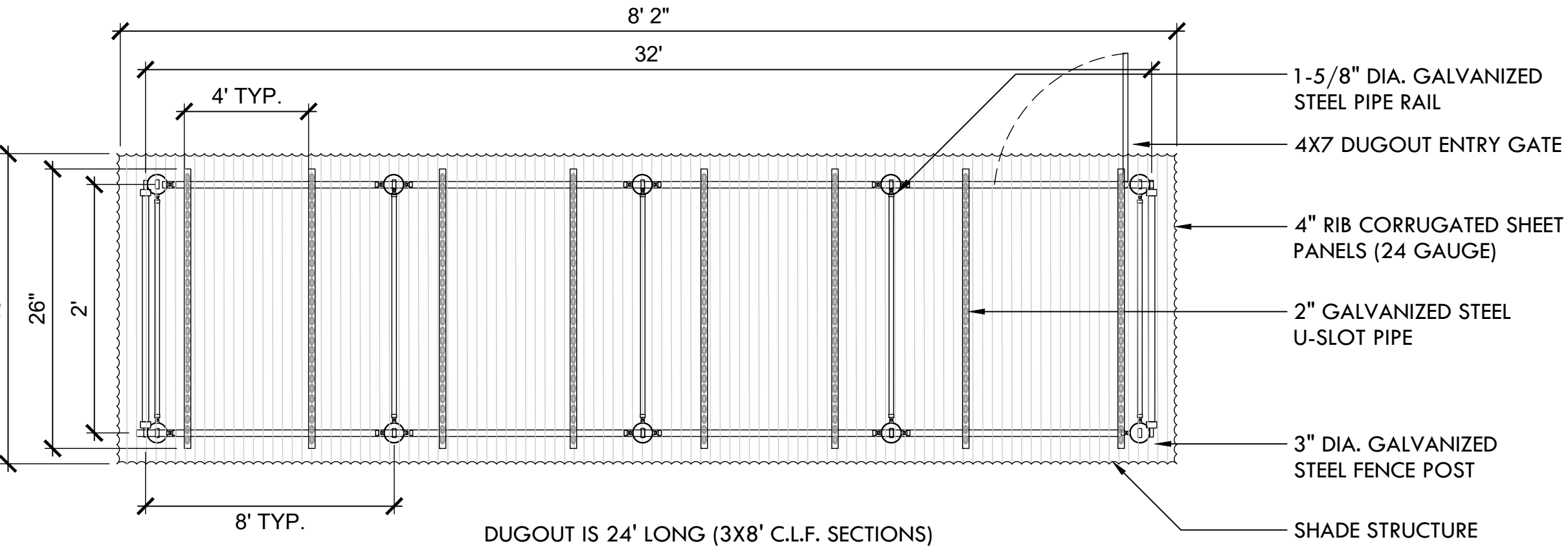
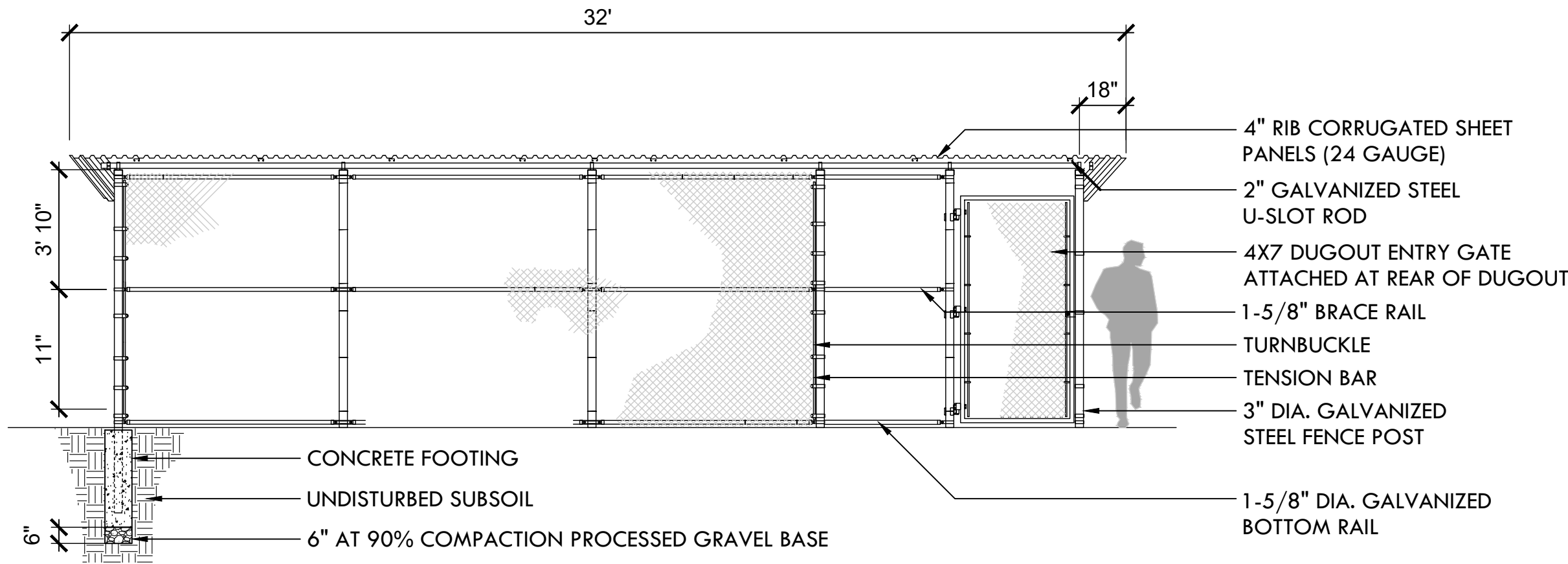
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Construction Details

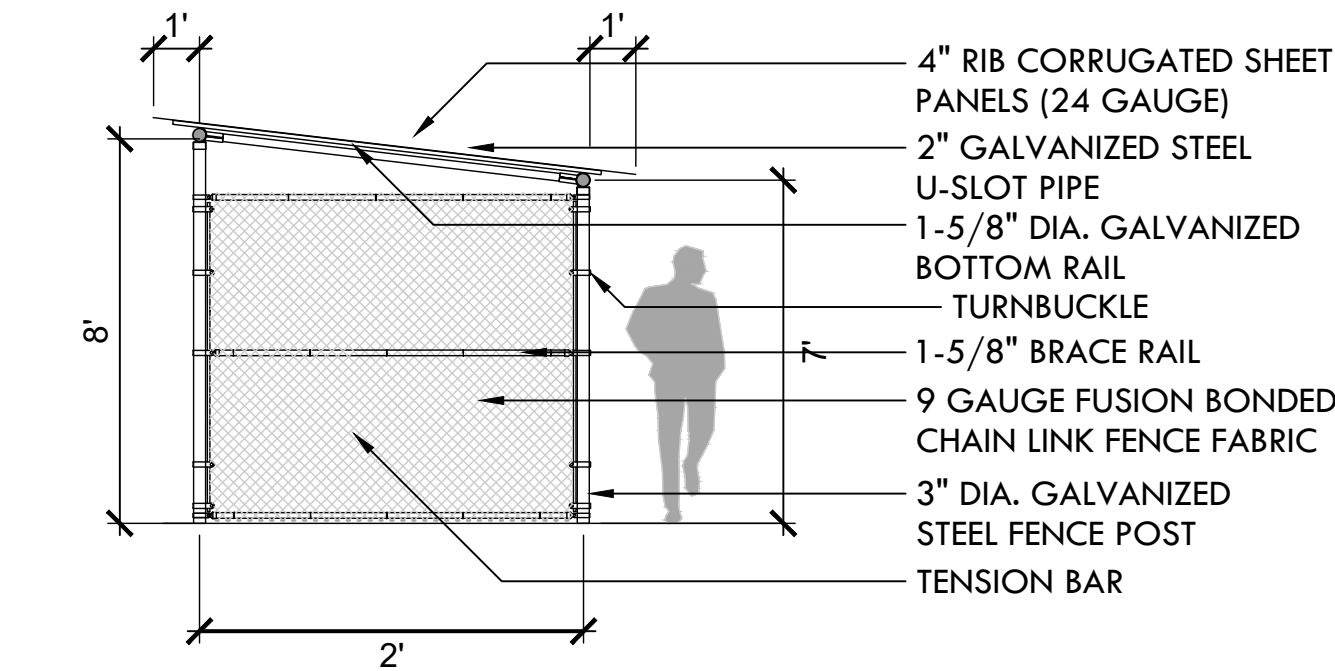
L-14

17 OF 22

FILE: MIGU.22.01-DETAILS.dwg



44 ADD ALT #1: DUGOUT
NTS

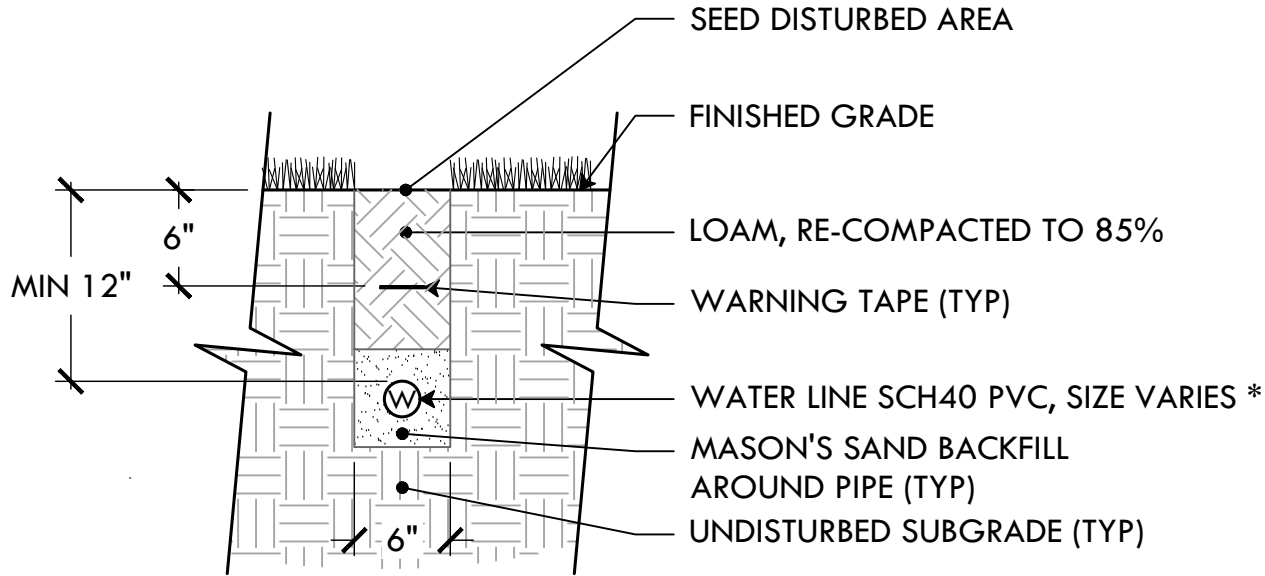


CONSTRUCTION NOTES:

FOOTING WIDTH TO BE (4)X POST WIDTH, MINIMUM DEPTH 36"

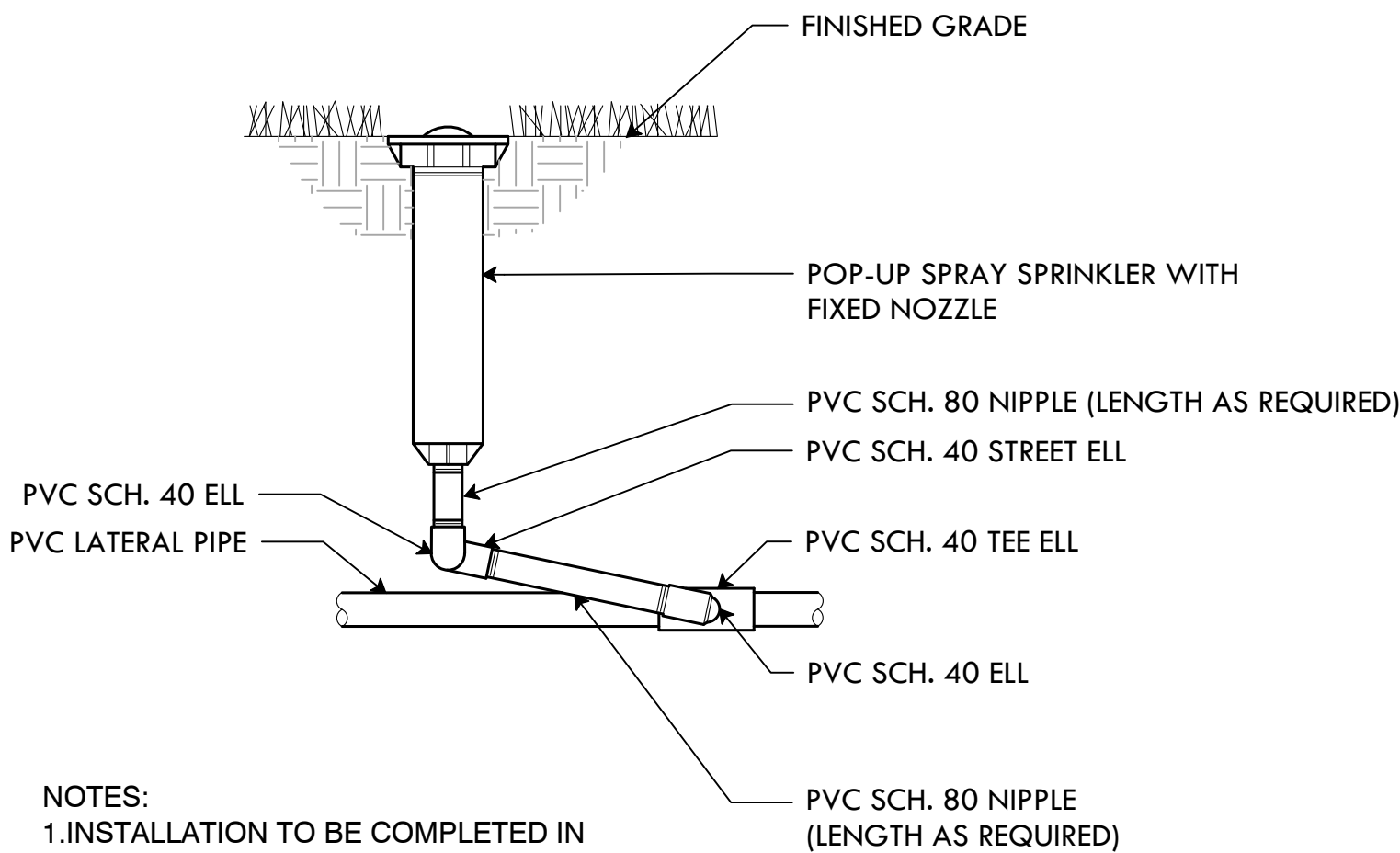
DUGOUT WILL BE 24' IN LENGTH WITH POST 8' O/C=3" SCHEDULE 40 GALVANIZED. HEIGHT IN FRONT OF DUGOUT WILL BE 8' ABOVE GRADE ELEVATION

ALL POSTS, RAILS, BRACES AND ACCESSORIES SHALL BE GALVANIZED STEEL WITH A PROTECTED ZINC COATING



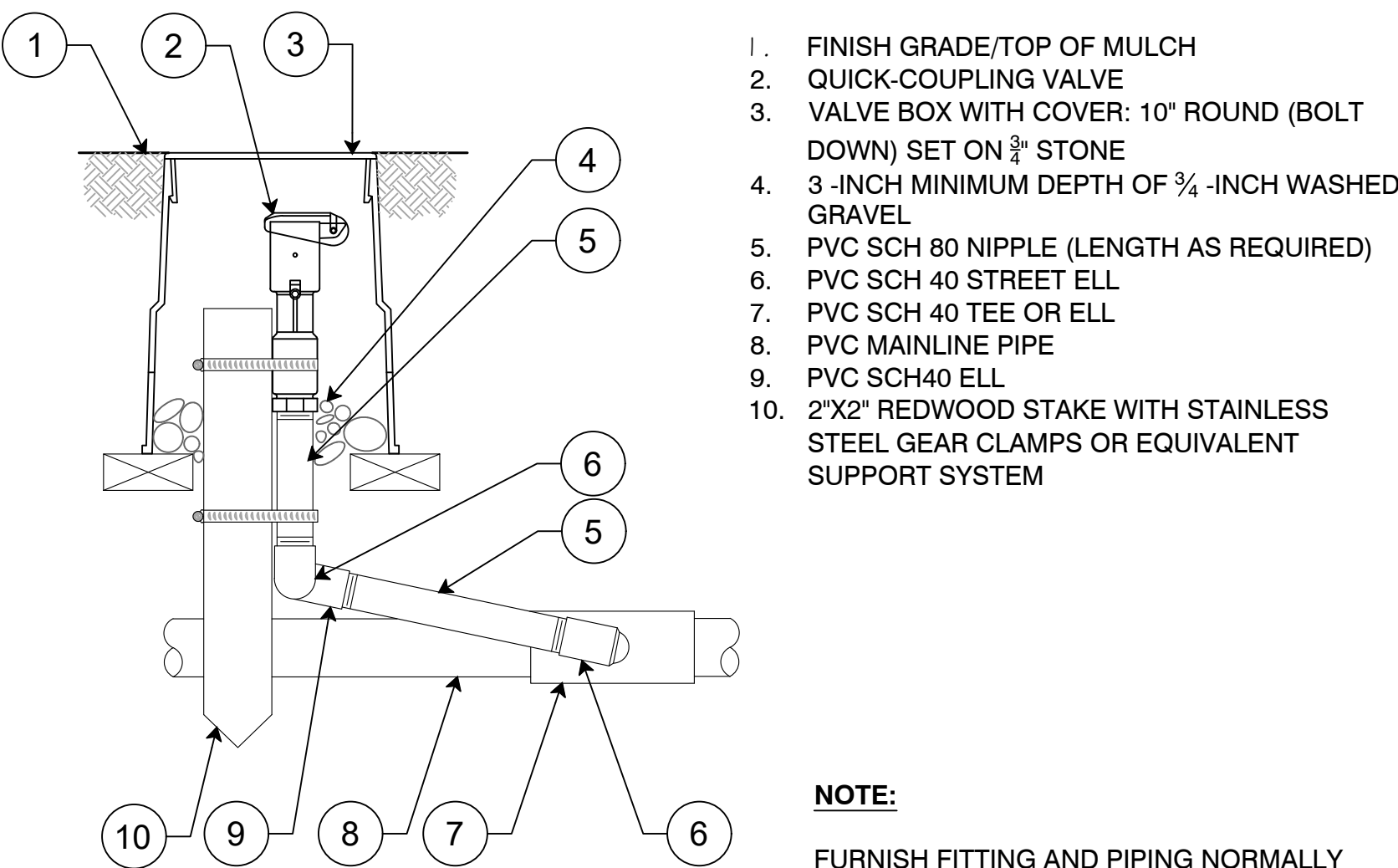
*NOTE: SEE GRADING & UTILITIES PLAN L-4.2

45 ADD ALT #7: WATER LINE TRENCH
NTS



NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS

46 ADD ALT #7: FIXED SPRAY HEAD
NTS



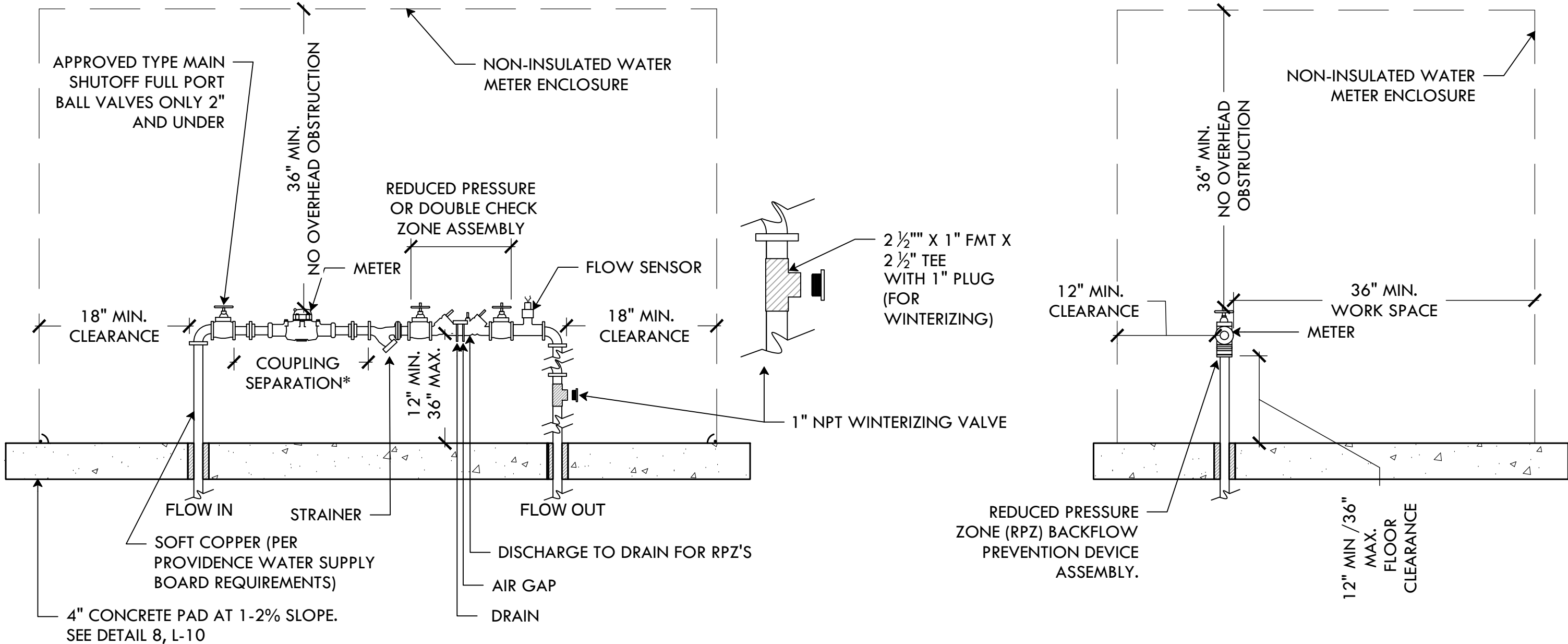
NOTE:
FURNISH FITTING AND PIPING NORMALLY SIZED IDENTICAL TO NORMAL QUICK COUPLING VALVE INLET SIZE.

48 ADD ALT #7: QUICK COUPLING VALVE, IN ROUND BOX
NTS

NOTES:

- METER AND BACK FLOW MUST BE ACCESSIBLE AT ALL TIMES.
- CONTRACTOR SHALL CARRY ALL COST FOR FEES AND CHARGES BY PROVIDENCE WATER SUPPLY BOARD.
- COST ASSOCIATED WITH TRAFFIC CONTROL SHALL BE PAID FOR BY THE CONTRACTOR.
- WATER TURNED OFF BY PROVIDENCE WATER BOARD AT CURB STOP

*PER PROVIDENCE BOARD GUIDELINES



47 WATER METER ENCLOSURE
NTS



PROVIDENCE
PARKS DEPARTMENT
DALRYMPLE BOATHOUSE
ROGER WILLIAMS PARK
PROVIDENCE, RI 02905



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STAMP

PROJECT:

Site Improvements at
Miguel Luna Park

110 Sackett St
Providence, RI

REVISIONS:

#	Date	Issued For:
2	4/8/2025	Addendum #2
-	-	-

NORTH ARROW

SCALE

DRAWING INFO

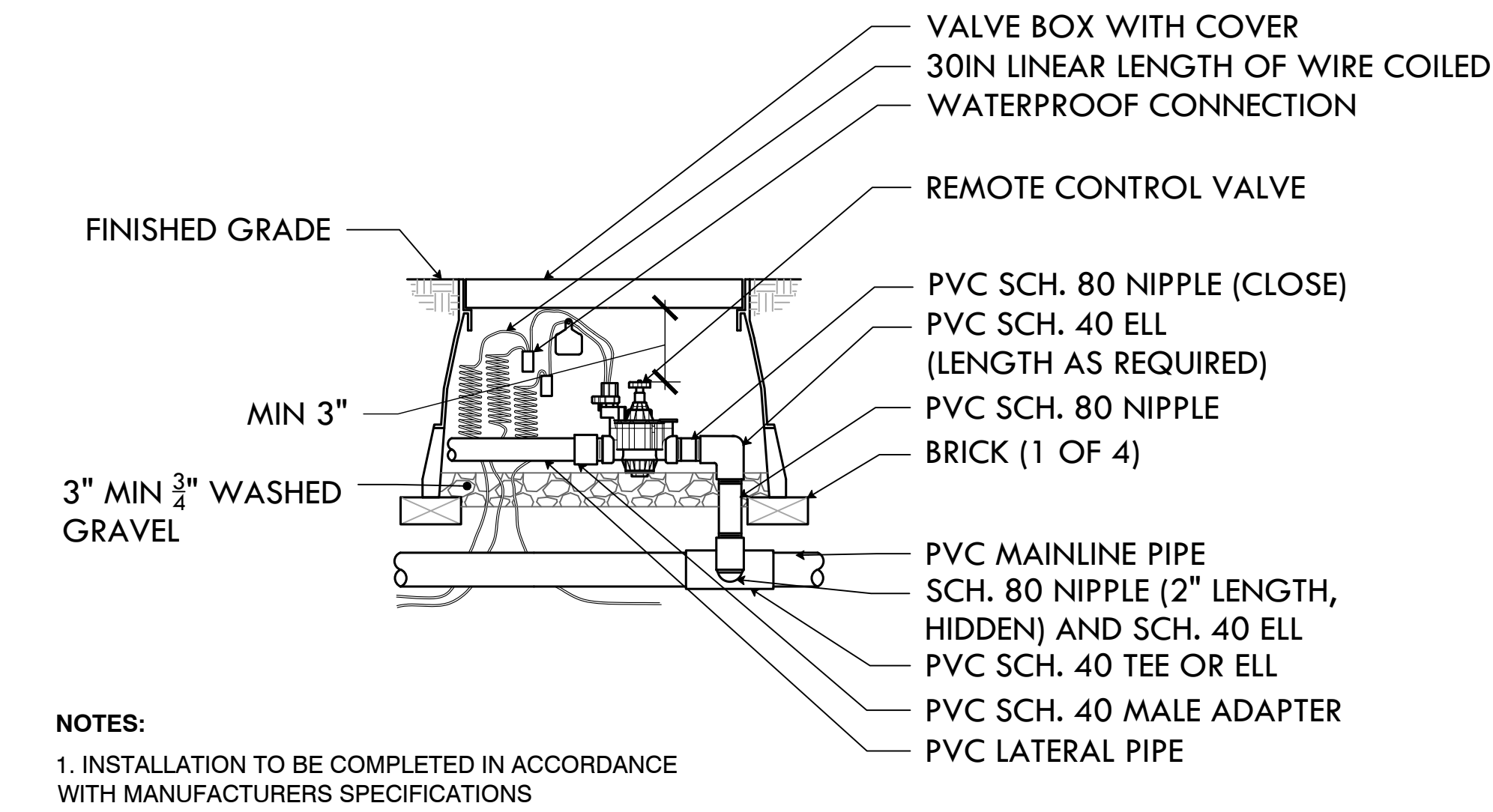
DATE ISSUED: 03/24/25
PROJECT NO: MIGU.22.01
DRAWN BY: AN, II, SG
CHECKED BY: MG

SHEET TITLE

Construction
Details

L-15

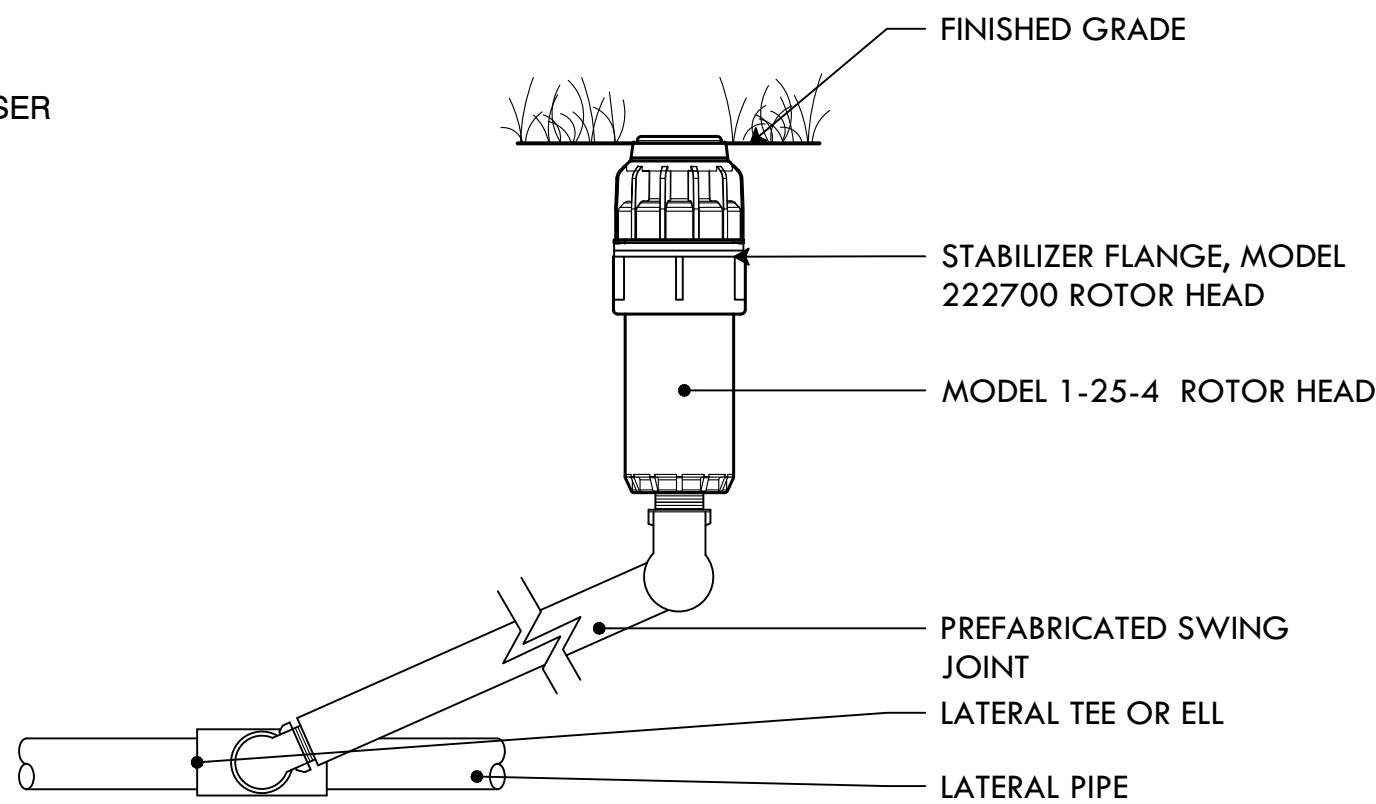
18 OF 22



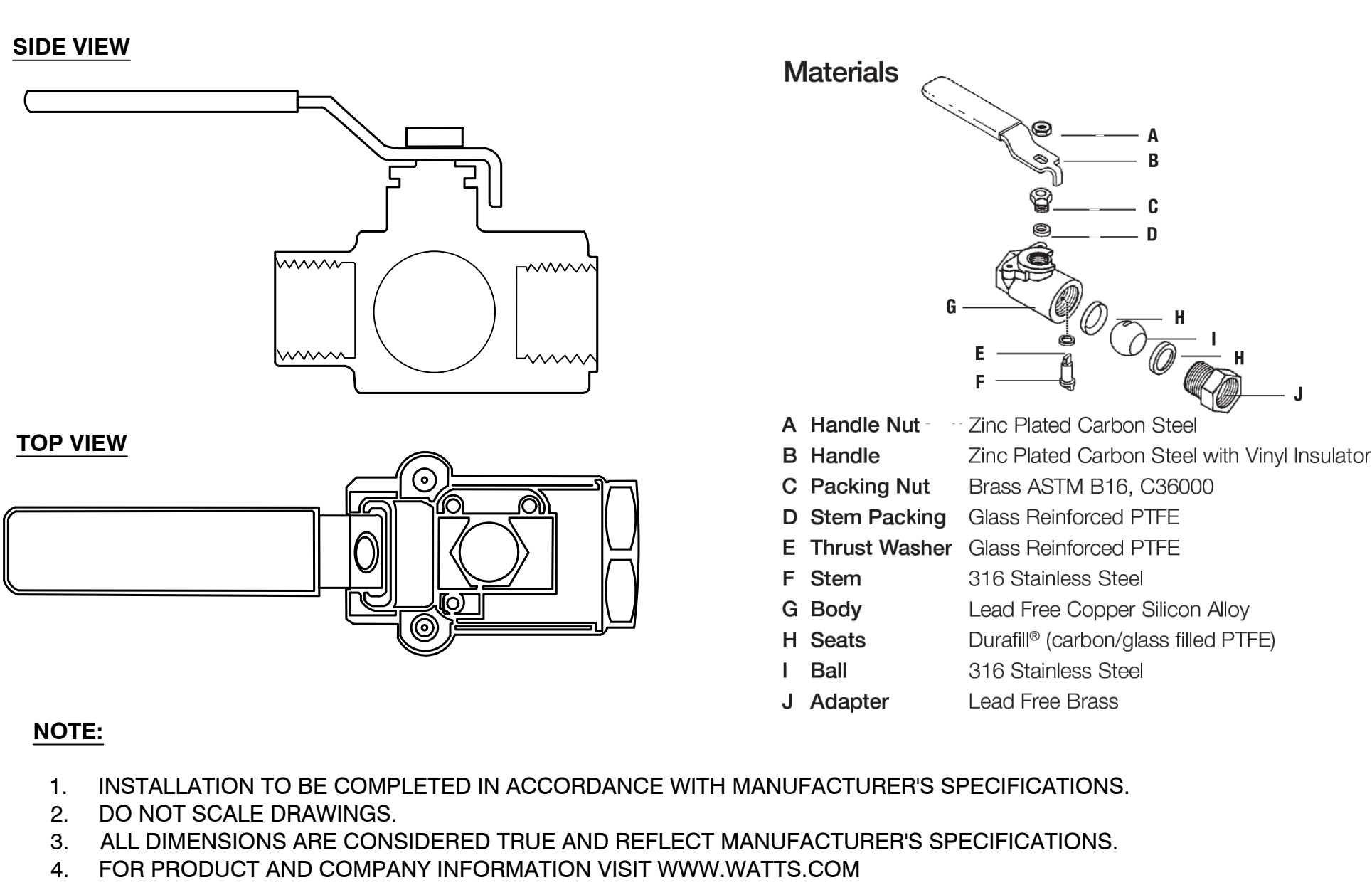
49 ADD ALT #7: 1.5" ZONE VALVE
NTS

OPTIONS:

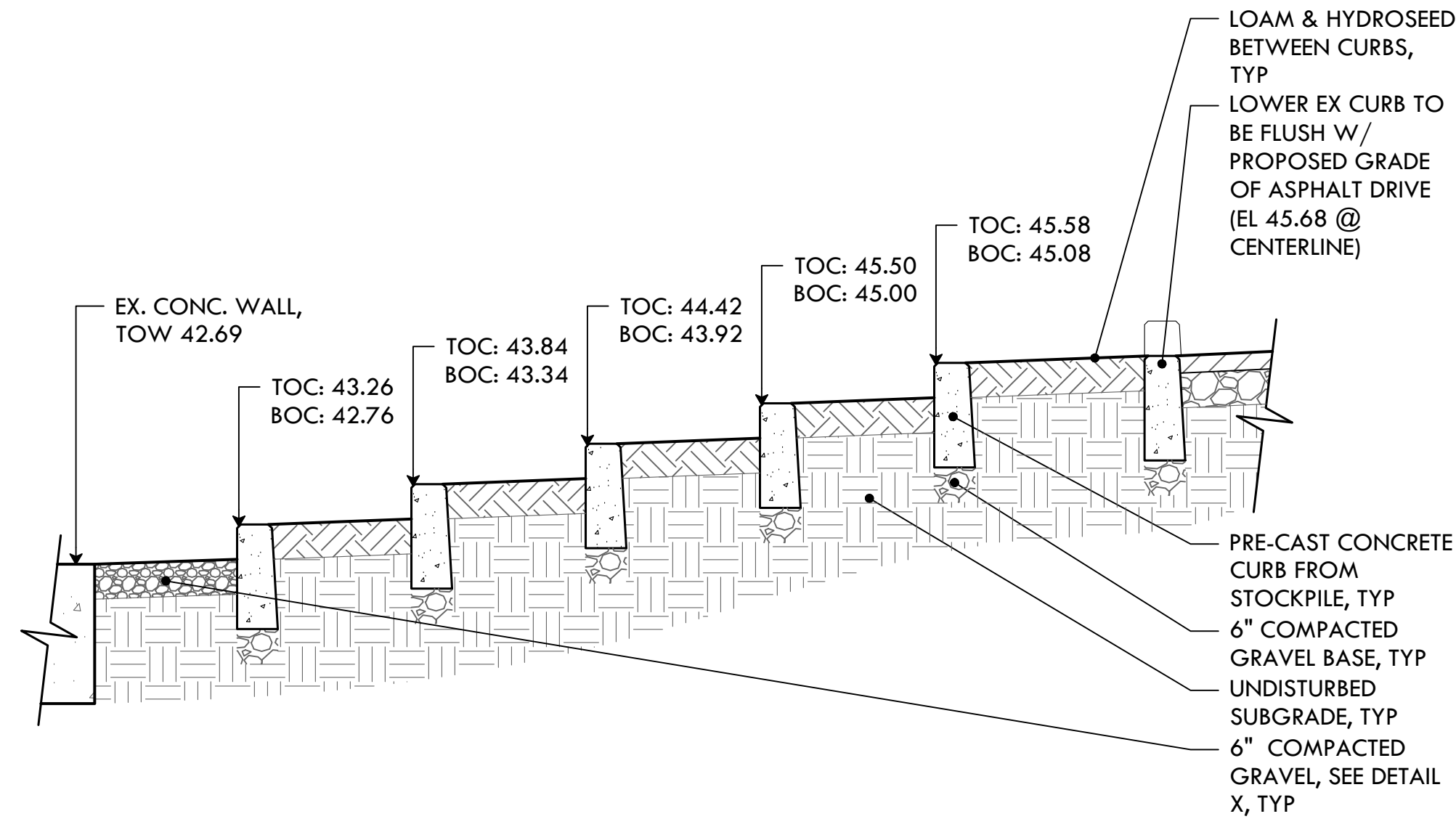
- ☒ SS=STAINLESS STEEL RISER
(WHEN INDICATED ON PLANS)



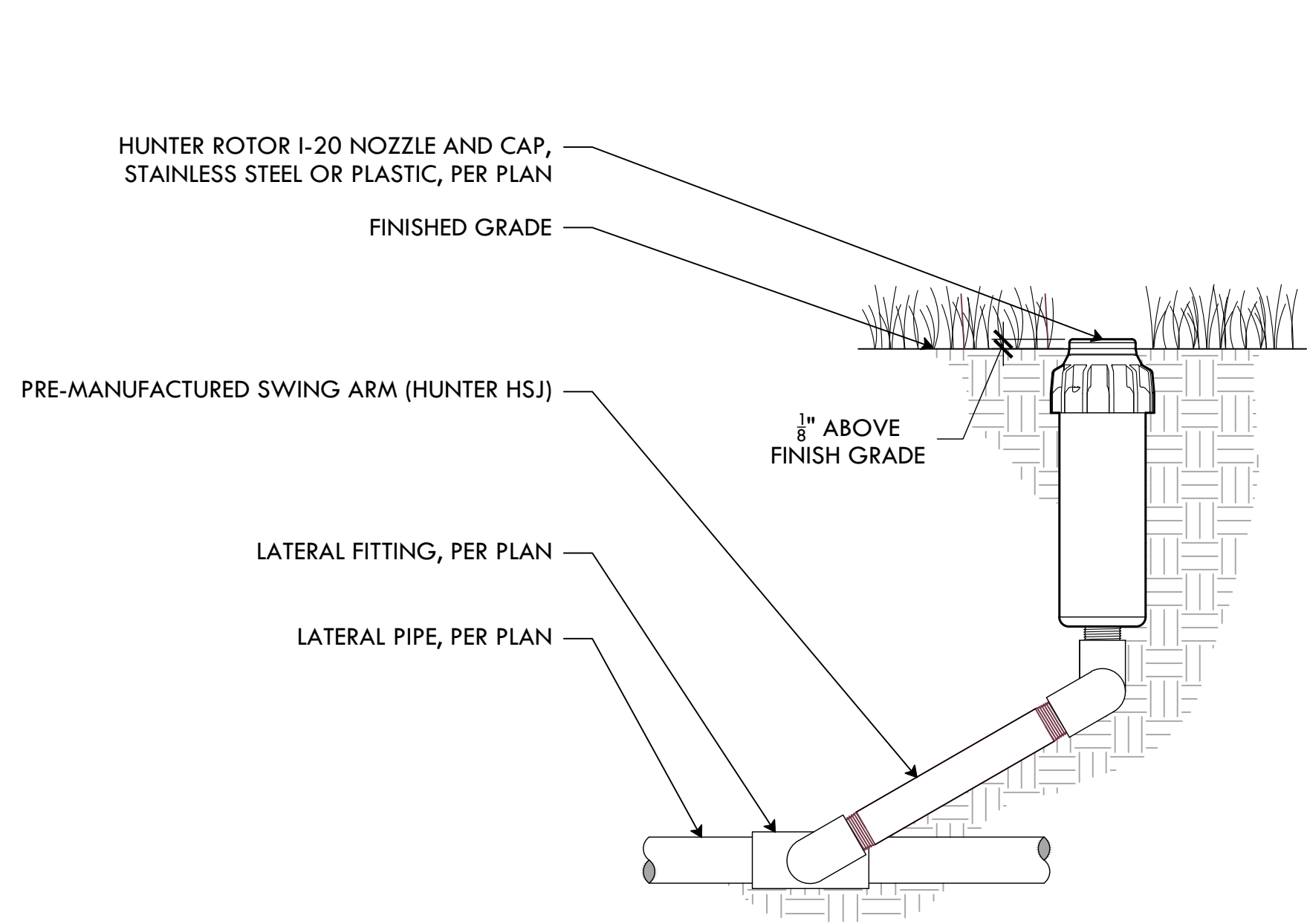
52 ADD ALT #7: HUNTER I-25-4 ROTOR
NTS



50 ADD ALT #7: 2.5" ISOLATION BALL VALVE
NTS



53 ADD ALT #6: CONCRETE CURB STEPS
NTS



51 ADD ALT #7: HUNTER I-20 ROTOR
NTS



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PROVIDENCE, RI 02905



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STAMP

PROJECT:

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NORTH ARROW

SCALE

DRAWING INFO

DATE ISSUED: 03/24/25
PROJECT NO: MIGU.22.01
DRAWN BY: AN, II, SG
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SHEET TITLE

Construction
Details

L-16

19 OF 22

FILE: MIGU.22.01-DETAILS.dwg

SPECIFICATIONS FOR CONSTRUCTION

1 GENERAL NOTES

- 1.1 THESE DESIGN DOCUMENTS WERE PREPARED BY 'VORTEX AQUATIC STRUCTURES INTERNATIONAL' FOR THE USE OF THEIR CLIENT ONLY. THE MATERIAL USED AND IDENTIFIED IN THEM REFLECTS VORTEX AQUATIC STRUCTURES INTERNATIONAL'S BEST JUDGMENT IN LIGHT OF THE INFORMATION AVAILABLE AT THE TIME OF PREPARATION. FOR THE PURPOSE OF THESE DESIGN DOCUMENTS, "VORTEX AQUATIC STRUCTURES INTERNATIONAL" IS SYNONYMOUS WITH "VORTEX".
- 1.2 VORTEX ACCEPTS NO RESPONSIBILITY FOR DAMAGES, IF ANY, SUFFERED BY ANY THIRD PARTY AS A RESULT OF DECISIONS MADE OR ACTIONS BASED ON THESE DESIGN DOCUMENTS WITHOUT THE PREVIOUS CONSULTATION TO VORTEX.
- 1.3 ALL WORK, MATERIALS AND THEIR ASSEMBLIES SHALL CONFORM TO THE STANDARDS, REGULATIONS AND CODES CURRENTLY IN FORCE FOR ALL TRADES, AISC, ACNOR, EN, OR IBC.
- 1.4 THESE DESIGN DOCUMENTS DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. WHEN APPLICABLE, THE CONTRACTORS SHALL SUPERVISE AND DIRECT ALL THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES AND SEQUENCES AS PER STANDARD BEST PRACTICES.
- 1.5 DO NOT SCALE DRAWINGS.
- 1.6 USE ONLY THOSE MARKED "ISSUED FOR CONSTRUCTION".
- 1.7 THE CONTRACTOR SHALL REVIEW THESE DESIGN DOCUMENTS AND REPORT ANY CONFLICTS OR OMISSIONS TO THE VORTEX IMMEDIATELY.
- 1.8 TEMPORARY SUPPORTS, WHICH WILL BE REQUIRED DURING CONSTRUCTION, SUCH AS FORMWORK, BRACING, SHORING, ETC. ARE NOT SHOWN ON THESE DRAWINGS AND ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL SAFE CONSTRUCTION PROCEDURES ARE FOLLOWED.
- 1.9 THE FOLLOWING SPECIFICATIONS ARE VORTEX'S MINIMUM RECOMMENDATIONS TO OBTAIN A QUALITY PRODUCT. THE CONTRACTOR SHALL FOLLOW THE LOCAL CODES IF MORE RESTRICTIVE.
- 1.10 ALL SEEFLOW COMPONENTS TO BE SNUG-TIGHT ONLY. USING POWER TOOLS OR TIGHTEN HARDWARE FULLY-TENSIONED CAN PRODUCE CRACKING ON THE PLASTIC.

2 EXCAVATION

- 2.1 ANY SHORING OR TEMPORARY SHORING NOT SHOWN ON DRAWINGS WILL BE EXECUTED, IN A SAFE MANNER, BY THE GENERAL CONTRACTOR.
- 2.2 IT IS THE RESPONSIBILITY OF OTHERS TO VERIFY THE EXISTENCE OF ANY UNDERGROUND SERVICES ETC.
- 2.3 IF AVAILABLE, REFER TO SOIL REPORT FOR BACKFILL REQUIREMENTS. ALL BACKFILL (FOR SLAB ON GRADE, ETC.) MUST BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF A QUALIFIED PROFESSIONAL. USE ONLY FREE DRAINING, GRANULAR, MINERAL, INERT AND NON- REACTIVE FILL.

3 FOUNDATIONS

- 3.1 REFER TO SOIL REPORT FOR RECOMMENDATIONS.
- 3.2 ALL FOOTINGS SHALL REST ON A HOMOGENEOUS LAYER OF UNDISTURBED SOIL OR ENGINEERED BACKFILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 100KPA (2000 PSF) AND MAXIMUM DIFFERENTIAL SETTLEMENT OF 19 MM (0.75"). ALL ORGANIC MATERIAL SHALL BE REMOVED.
- 3.3 IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE SOIL AT ALL FOOTING LOCATIONS BE VERIFIED BY A QUALIFIED SOILS EXPERT BEFORE POURING FOOTINGS TO ENSURE FOOTINGS REST ON APPROPRIATE STRATA.
- 3.4 WHEN APPLICABLE, FOLLOW GEOTECHNICAL EXPERT RECOMMENDATIONS FOR ALL EXTERIOR FOOTINGS TO ENSURE FROST PROTECTION.

4 CONCRETE

- 4.1 ALL CONCRETE MATERIALS, PROCEDURES, TOLERANCES & WORKMANSHIP SHALL CONFORM TO THE LATEST ISSUES OF ACI-318 AND ACI 317 OR ACNOR CAN3-A23.1 & A23.2, DEPENDING ON PROJECT LOCATION.
- 4.2 CONCRETE THAT HAS BEEN IN THE TRUCKS LONGER THAN 2 HOURS SHALL BE REJECTED. DO NOT ADD WATER TO THE CONCRETE IN THE TRUCKS OR ON THE SITE UNDER ANY CIRCUMSTANCES.
- 4.3 USE MAXIMUM 76mm (3") SLUMP, 19mm (3/4") AGGREGATE, UNLESS OTHERWISE-NOTED. USE 5-7% AIR ENTRAINMENT FOR CONCRETE EXPOSED TO WEATHER ONLY.
- 4.4 ALL GROUT SHALL BE NON-SHRINK TYPE WITH A MINIMUM 28 DAYS STRENGTH OF 35.0 MPA (5000 PSI). USE 25 MM (1") GROUT UNDER ALL STEEL COLUMN BASE PLATES.
- 4.5 CONCRETE STRENGTH @ 28 DAYS TO BE:
- 4.5.1 FOUNDATIONS (FOOTINGS): 25.0 MPA (3500 PSI), UNLESS OTHERWISE NOTED.
- 4.5.2 INTERIOR SLAB ON GRADE: 25.0 Mpa (3500 PSI), UNLESS OTHERWISE NOTED.
- 4.5.3 EXTERIOR SLAB ON GRADE: 32.0 Mpa (4500 PSI), UNLESS OTHERWISE NOTED.
- 4.6 MINIMAL RE-BAR COVER:
- 4.6.1 CONCRETE POURED ON-GRADE = 76mm (3") COVER
- 4.6.2 CONCRETE POURED INTO FORMWORK BUT EXPOSED TO SOIL AND WEATHER FOR REBAR 15m (#4) AND UNDER = 50mm (2") COVER

5 REINFORCING STEEL

- 5.1 DEPENDING ON PROJECT LOCATION, ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 (BARS 15m (#4) TO BE GRADE 60 WITH SUPPLEMENTARY REQUIREMENTS ON S1.
- BARS SMALLER THAN 15m (#4), TO BE GRADE 40); OR TO ACNOR GRADE G30.12 [FY = 400MPA (60,000 PSI), UNLESS OTHERWISE NOTED].
- 5.2 USE CONCRETE, PLASTIC OR STEEL SUPPORT BARS, AS PER ACI (MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES). THE RE-BAR PLACER MUST REMAIN ON-SITE DURING POURS TO VERIFY CORRECT POSITIONING OF RE-BARS. SLANT UPPER REINFORCING STEEL IN LINE WITH THE SLOPE OF THE SLAB, IF APPLICABLE.
- 5.3 BARS SHALL BE SECURELY WIRED PER LATEST EDITION OF CRSI (RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS).
- 5.4 ALL REINFORCING STEEL IS TO BE KEPT CLEAN AND FREE OF MUD, SNOW, ICE, AND ANY CONTAMINANTS.
- 5.5 VERTICAL AND CONTINUOUS REBAR SHALL BE LAPPED TO DEVELOP FULL TENSILE CAPACITY OF THE BAR. FOR 15M (#4) BARS MINIMUM LAP OF 610mm (24").
- 6 EXTERIOR / INTERIOR SLAB ON GRADE
- 6.1 FOLLOW THE GEOTECHNICAL EXPERT RECOMMENDATIONS FOR PREPARATION OF SOIL BEFORE POURING THE CONCRETE. ALL GRANULAR MATERIAL SHALL BE MOISTENED IMMEDIATELY BEFORE POURING THE CONCRETE. WATER AS NEEDED. DO NOT USE A VAPOR BARRIER.
- 6.2 NO TRUCKS ARE PERMITTED ON THE CONSTRUCTION SITE (OF THE SLAB) AFTER THE FINAL COMPACTION, EITHER BEFORE OR DURING, THE POUR.
- 6.3 SLAB TO BE MINIMUM 6" THICK, REINFORCED WITH 10m (#3) @ 300mm (12") C/C REBAR PLACED IN BOTH DIRECTIONS AT MID-HEIGHT OF THE SLAB, UNLESS OTHERWISE NOTED ON PLANS. FOR ELEVATION/PLAYNUK REQUIREMENT OF THICKENED SLAB/MANIFOLD LOCATION, REFER TO ELEVATION INSTALLATION PACKAGE FOR DETAILS.
- 6.4 REFER TO CONCRETE SECTION FOR MINIMUM COMPRESSIVE STRENGTH AND AIR-ENTRAINMENT REQUIREMENTS.

- 6.5 FINISHING WILL BE MEDIUM BROOM.
- 6.6 CONTROL JOINTS (SAW-CUTS) TO BE LOCATED IN EACH DIRECTION, AT REGULAR INTERVALS, WITH A MAXIMUM DISTANCE OF 3 METERS (10 FEET). SHALL BE MINIMUM 3 MM (1/8") WIDE AND SHALL PENETRATE THE SLAB TO A MINIMUM DEPTH OF 1/3 OF THE THICKNESS OF THE SLAB. CONTROL JOINTS SHOULD BE DONE AS SOON AS POSSIBLE WITHOUT DAMAGING THE CONCRETE, BUT NO LATER THAN 18 HOURS AFTER POURING.
- 6.7 WHEN POSSIBLE AND TO AVOID SHRINKAGE CRACKING, HUMIDITY SHALL BE MAINTAINED FOR 7 DAYS DURING THE CURING PERIOD OF THE SLAB. WATER AND USE POLYETHYLENE CLOTH OR BAG. THE CONCRETE MUST DRY UNIFORMLY.
- 7 CONCRETE WORK IN COLD OR HOT WEATHER (MINIMUM REQUIREMENTS)
- 7.1 COLD WEATHER REQUIREMENTS APPLY WHEN THE MEAN AIR IS LESS THAN 5 DEGREES CELSIUS (40 DEGREES FAHRENHEIT).
- 7.2 GENERAL REQUIREMENTS FOR COLD WEATHER CONCRETE WORK SHALL BE AS PER ACI 306R-88; OR AS PER THE NBC'S LATEST REQUIREMENTS INCLUDING THE LATEST ISSUE OF CSA STANDARD CAN3-A23.1.
- 7.3 ALL SNOW AND ICE SHALL BE REMOVED FROM FORMS AND REBAR WITH STEAM AND COMPRESSED AIR BEFORE POURING. DO NOT USE DE-ICING SALT (CALCIUM CHLORIDE) OR ANY OTHER SALTS UNDER ANY CIRCUMSTANCES.
- 7.4 CONCRETE SHALL HAVE A MINIMUM TEMPERATURE OF 20 DEGREES CELSIUS AND A MAXIMUM TEMPERATURE OF 25 DEGREES CELSIUS WHILE POURING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THESE REQUIREMENTS ARE SATISFIED. ANY CONCRETE THAT DOES NOT CONFORM MUST BE REJECTED.
- 7.5 THE SURFACE OF POURED CONCRETE SHALL BE PROTECTED BY MEANS OF SUITABLE COVERINGS AND INSULATION (TO BE DETERMINED BY TEMPERATURE) DURING THE CURING PROCESS.
- 7.6 GENERAL REQUIREMENTS FOR HOT WEATHER CONCRETE WORK SHALL BE AS PER ACI 305R-99; OR AS PER LOCAL CODE REQUIREMENTS.
- 8 PIPING
- 8.1 WDS CONFIGURATION ARE SCHEMATIC AND MAY BE MOVED OR ADJUSTED ON SITE BY VORTEX CERTIFIED INSTALLER TO ADJUST FOR SITE CONDITIONS
- 8.2 ANY REQUIRED BACKFLOW PREVENTER AND WATER METER ON THE CITY WATER MAIN SHALL BE PROVIDED BY OTHER. PRESSURE REGULATOR WILL BE PROVIDED BY VORTEX.
- 8.3 ALL PIPE LINES TO FEATURES TO HAVE A 1% MINIMUM RECOMMENDED SLOPE FOR PROPER WINTERIZATION.
- 8.4 ALL LINE SIZING (FEATURE CONNECTION TABLE) ASSUMES A MAXIMUM DISTANCE OF 100 FEET BETWEEN THE WATER DISTRIBUTION MANIFOLD AND THE FURTHEST PLAY PRODUCT. DISTANCES ABOVE 100 FEET MAY REQUIRE AN INCREASE IN LINE SIZING. PLEASE CONTACT VORTEX.
- 8.5 QUANTITY AND LOCATION OF DRAINS BASED ON MAXIMUM FLOW FOR THE INDICATED PIPE DIAMETER AT 1% SLOPE. MODIFICATIONS MAY BE REQUIRED DUE TO SPECIFIC SITE CONDITIONS AND LOCAL CODE.

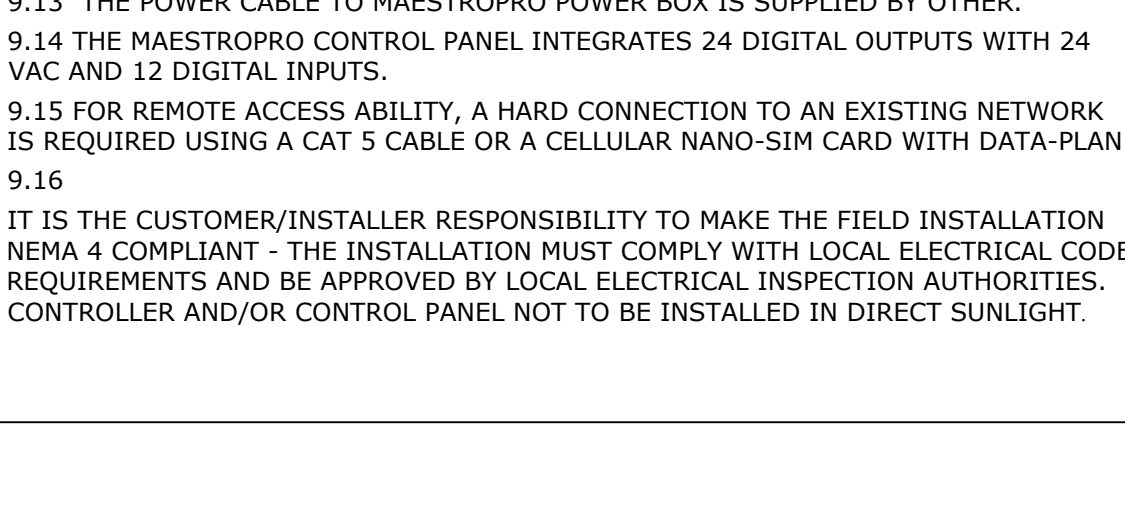
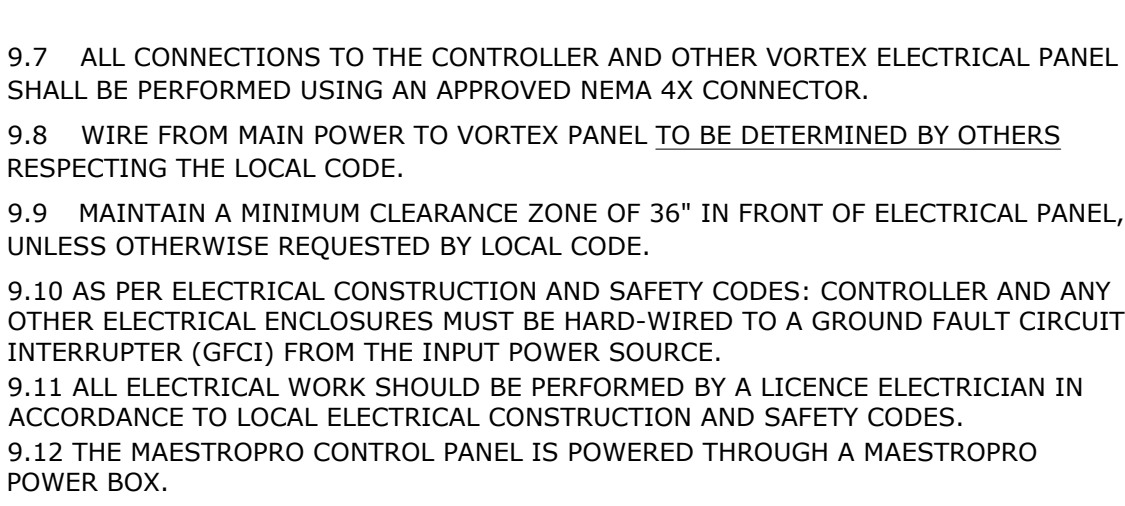
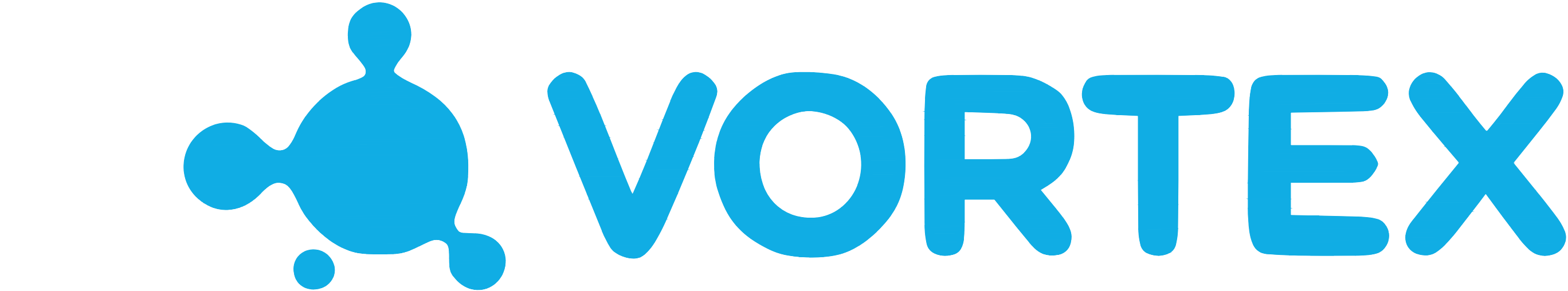
- 8.6 PRESSURE LINES ARE RECOMMENDED TO BE SCHEDULE 80 PVC OR PEX, AND NON-PRESSURE LINES TO BE SCHEDULE 40, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 8.7 DRAINAGE LINES ARE RECOMMENDED TO BE SDR 35, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 8.8 PIPING SHOULD BE INSPECTED AFTER TRANSPORTATION FOR CUTS, SCRATCHES, GOUGES OR SPLITS; DAMAGED SECTIONS MUST BE DISCARDED OR CUT OUT.
- 8.9 PIPE SHALL BE INSTALLED BELOW THE FROST LEVEL NOT LESS THAN 12" (ASTM F-645) UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 8.10 PIPE INSTALLATION MINIMUM COVER SHOULD BE EVALUATED ACCORDING TO ASTM D-2774, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.
- 8.11 SPECIAL CONSIDERATIONS SHOULD BE TAKEN FOR THERMAL CONDITIONS, EXPANSION AND CONTRACTIONS DUE TO TEMPERATURE SHOULD BE EVALUATED BEFORE THE INSTALLATION BY THE CONTRACTOR.

- 8.12 VALVE NUMBER 1 IS LOCATED TO THE LEFT OF THE MANIFOLD FACING THE SOLENOID.
- 8.13 MINIMUM 50 PSI REQUIRED AT THE INLET OF THE BACKFLOW PREVENTER AND PRESSURE REGULATING DEVICE.
- 8.14 MAXIMUM FLOW CAPACITY OF MANIFOLD IS 72 GPM.
- 8.15 TOTAL FLOW OF FEATURE IS 78 GPM.
- 8.16 FACTORY MAXIMUM SEQUENCING FLOW IS 50 GPM ACTUAL FLOW MAY VARY DUE TO SITE CONDITIONS.


9 ELECTRICAL

- 9.1 EQUIPMENT BONDING; FEATURES SHALL BE CONNECTED TO AN EQUIPOTENTIAL BONDING GRID WITH A SOLID RIGID COPPER CONDUCTOR, THE MINIMUM SIZE OF BONDING CONDUCTORS NOT BE SMALLER THAN #6 AMERICAN WIRE GAUGE (AWG) (16mm²) COPPER. BOND TO ALL METALLIC PARTS LOCATED IN THE SPLASHPAD/POOL AND TO THE REBAR. TO RUN CONTINUOUS TO THE WATER PUMP AND ELECTRICAL SUPPLY PANELS. SEE ELEVATION INSTALLATION DRAWING FOR BONDING DETAILS (BY OTHER).SPRAYLINKS FEATURE DO NOT REQUIRE BONDING.
- 9.2 GRID STRUCTURE; THE EQUIPOTENTIAL BONDING GRID SHALL COVER THE CONTOUR OF THE WATER BODY AREA AND ANY DECK EXTENDING 3FT (1m). HORIZONTALLY FROM THE INSIDE WALLS OF THE SPLASHPAD/WATER BODY. THE EQUIPOTENTIAL BONDING GRID SHALL BE ARRANGED IN A 12 IN (300mm). BY 12 IN (300mm). NETWORK OF CONDUCTORS IN A UNIFORMLY SPACED PERPENDICULAR GRID PATTERN WITH TOLERANCE OF 4 IN (100mm). A J-JUNCTION BOND CLAMP (DIRECT BURIAL CERTIFIED) CLAMPED TO A REBAR WITH WIRE LOOPED THROUGH CONNECTOR AND CLAMPED TO STEEL AND TO THE SPLASHPAD/POOL PUMP WATER
- 9.3 ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED; THE FOLLOWING EQUIPMENT SHALL BE GROUNDED. ALL ELECTRICAL EQUIPMENT LOCATED WITHIN 5FT (1.5 m) OF THE INSIDE WALL OF THE SPECIFIED BODY OF WATER." THIS EQUIPMENT ALSO INCLUDES (BUT NOT LIMITED TO): FEATURES, ELEVATIONS, DRAIN, REBAR, WATER INLET, SKIMMER, LADDER, SLIDES, DIVING STRUCTURE, UNDERWATER LIGHTING, JUNCTION BOXES, AND WATER CIRCULATING/HEATING EQUIPMENT.
- ALL BONDING AND GROUNDING MUST COMPLY WITH NEC, CEC, AND LOCAL CODES.

- 9.4 ALTERNATE MEANS; WHERE STRUCTURAL REINFORCING STEEL IS NOT AVAILABLE OR IS ENCAPSULATED IN A NONCONDUCTIVE COMPOUND, A COPPER CONDUCTOR(S) SHALL BE UTILIZED WHERE THE FOLLOWING REQUIREMENTS ARE MET: (1) AT LEAST ONE MINIMUM 6 AWG BARE SOLID COPPER CONDUCTOR SHALL BE PROVIDED. (2) THE CONDUCTORS SHALL FOLLOW THE CONTOUR OF THE PERIMETER SURFACE. (3) ONLY LISTED SPLICES SHALL BE PERMITTED. (4) THE REQUIRED CONDUCTOR SHALL BE 450 TO 18 TO 24 IN (600mm) FROM THE INSIDE WALLS OF THE POOL. (5) THE REQUIRED CONDUCTOR SHALL BE SECURED WITHIN OR UNDER THE PERIMETER SURFACE (4 IN TO 6 IN (100mm TO 150mm)). BELOW THE SUBGRADE.
- 9.5 SPLASHPAD/POOL WATER; WHERE NONE OF THE BONDED PARTS IS IN DIRECT CONNECTION WITH THE POOL WATER, THE POOL WATER SHALL BE IN DIRECT CONTACT WITH AN APPROVED CORROSION-RESISTANT CONDUCTIVE SURFACE THAT EXPOSED NOT LESS THAN 9 IN.2 (5800mm²) OF SURFACE AREA TO THE POOL WATER AT ALL TIMES. THE CONDUCTIVE SURFACE SHALL BE LOCATED WHERE IT IS NOT EXPOSED TO PHYSICAL DAMAGE OR DISLODGEMENT DURING USUAL POOL ACTIVITIES, AND IT SHALL BE BONDED IN ACCORDANCE WITH NEC, CEC, AND LOCAL CODES.
- 9.6 WIRING FROM THE CONTROLLER TO EACH ACTIVATOR SHALL BE #22 AWG. A TOTAL OF TWO (2) CONDUCTORS PER ACTIVATOR.CABLE LENGTH UP TO 300' (100m), PROVIDED BY OTHER.



Drawing #	Drawing Name	Rev#
PE-001	Plumbing & Electrical Layout	00
E-003	Bonding Layout	00



VORTEX AQUATIC STRUCTURES INTERNATIONAL

VORTEX USA Inc.
3500 South Dupont Highway, Suite EP-101
Dover, Delaware
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Miguel-Luna-Park-Providence

Abbreviations	
A	Architectural
C	Civil Work
P	Plumbing Layout
PD	Plumbing Details
E	Electrical Layout
ED	Electrical Details
FT	Feature Drawings

Drawing #	Drawing Name	Rev#
PE-001	Plumbing & Electrical Layout	00
E-003	Bonding Layout	00



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Miguel-Luna-Park-Providence

Project Location
RI

Project Number
42540

Version
VE

08/April/2025	Issued for Approval	00	BR
Date	Revision Description	No.	By

Drawing Title

Plumbing & Electrical Layout

Drawn by
BR

Verified by
MAB

Scale
1/4"=1'-0"

Date
08/April/2025

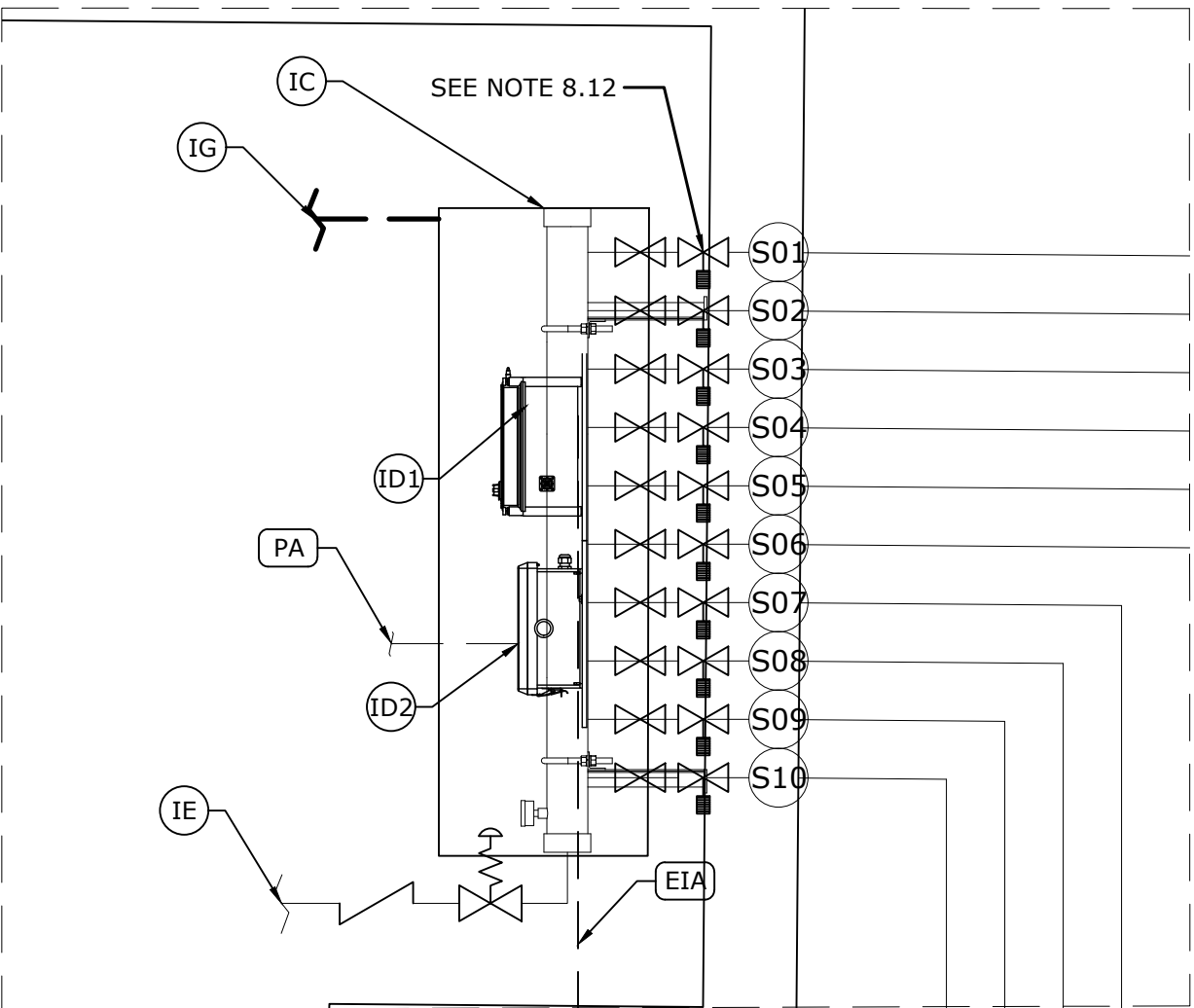
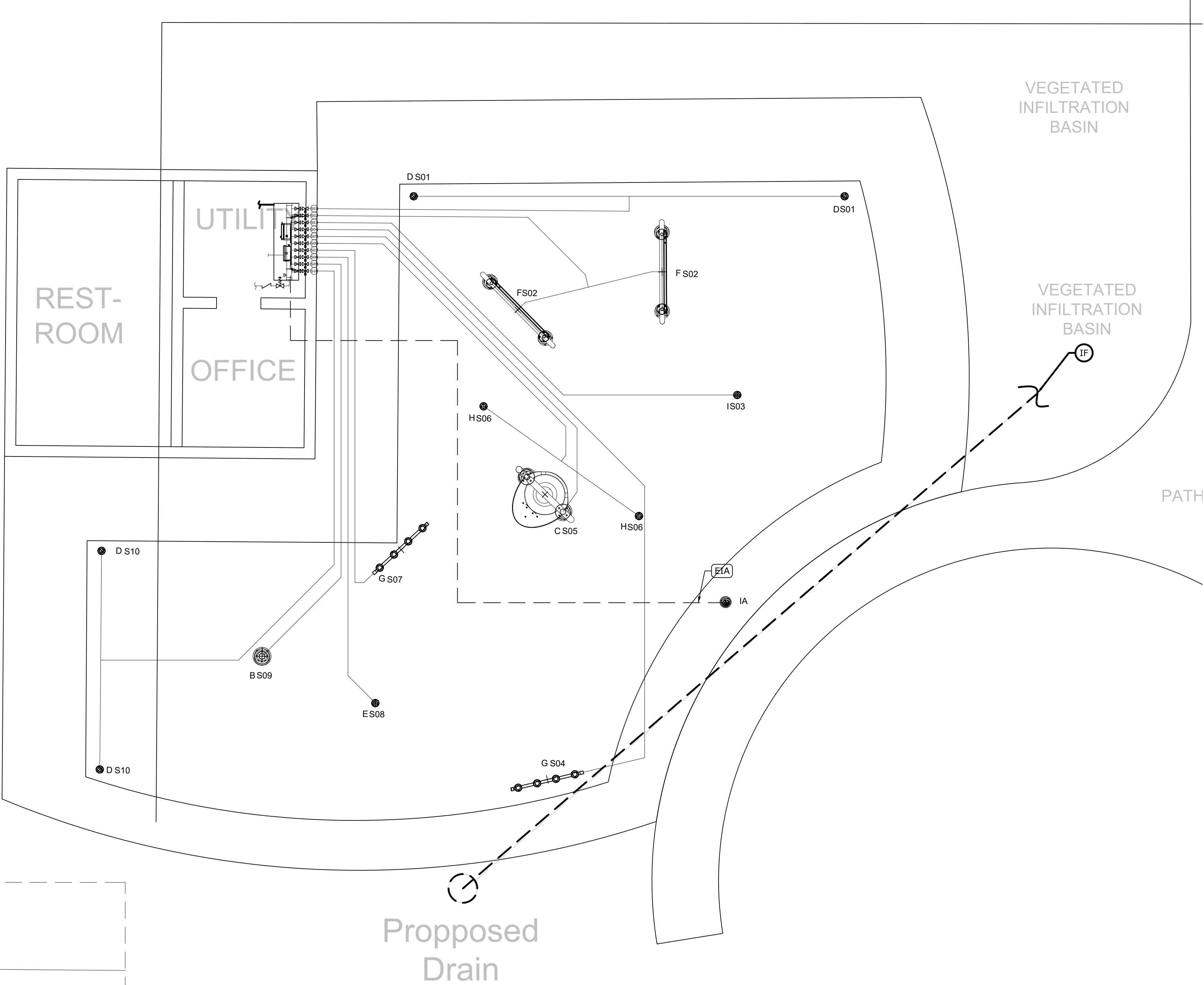
Page #
PE-001

Feature Connection Table							
Manifold Output Ref.	Splenoid PVC	Feature Ref.	Feature	Qty	Line Size	Gpm	Output (ID1)
S01	1 1/2" Std	D	Spraylink™ Split VOR 3003	2	1 1/2"	5	1
S02	1 1/2" Std	F	Spray Loop VOR 0519	2	1 1/2"	15	2
S03	1 1/2" Std	I	Spraylink™ Bloom VOR 3006	1	1 1/2"	8	3
S04	1 1/2" Std	G	Spraylink™ Tunnel N°1 VOR 3054	1	1 1/2"	4	4
S05	1 1/2" Std	C	Twinsplash VOR 7242	1	1 1/2"	12	5
S06	1 1/2" Std	H	Spraylink™ Jet N°1 VOR 3000	2	1 1/2"	5	6
S07	1 1/2" Std	G	Spraylink™ Tunnel N°1 VOR 3054	1	1 1/2"	4	7
S08	1 1/2" Std	E	Spraylink™ Fountain VOR 3007	1	1 1/2"	6	8
S09	1 1/2" Std	B	Aqua Dome N°1 VOR 0555 (Existing)	1	1 1/2"	14	9
S10	1 1/2" Std	D	Spraylink™ Split VOR 3003	2	1 1/2"	5	10

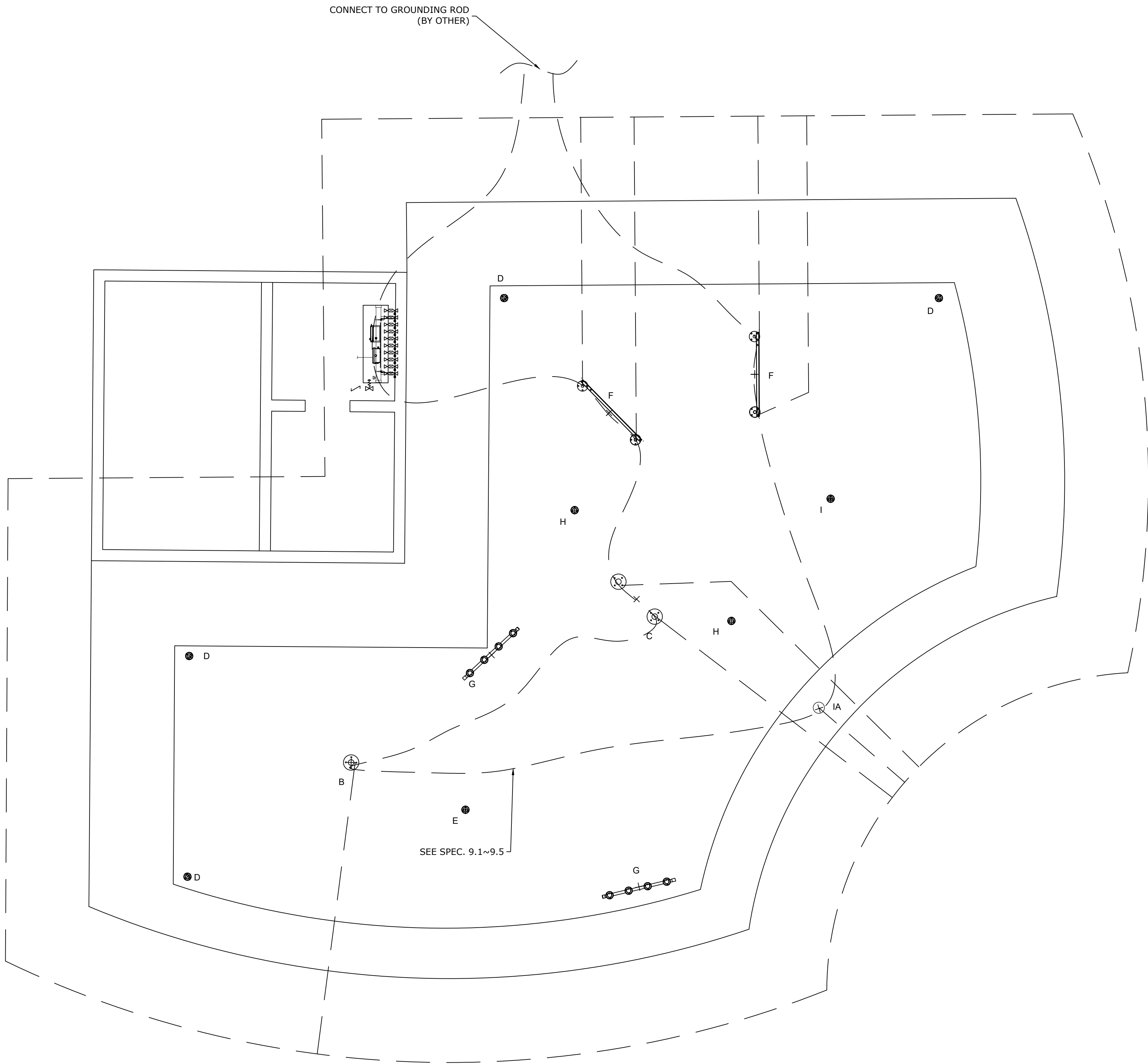
Electrical Line Connections Power					
Product Code	From	To	# Conductors	Gauge/Type	Note
PA	Main Power Line (by Other)	ID2 120VAC	3	TBD (by Other)	120V, 1 Phase, 60Hz, 10Amps Breaker Recommended ± 5% Voltage Drop is Acceptable

Electrical Line Connections Controller Inputs					
Product Code	From	To	# Conductors	Gauge/Type	Note
EIA	ID1-Input 1	IA	2	22	Activator No 4 24 VDC, Max 350 mA, Max 300' (100m) Long (by Other)

Product Legend		
Product Ref.	Product	Qty
IA	Activator N°4 VOR 0622	1
IB	Drain (By Other)	1
IC	Water Distribution System 1.0 Wall Mounted Manifold Command Center	1
ID1	MaestroPRO Controller 24 out/ 12 in VOR-33907.3200	1
ID2	MaestroPRO Power Box VOR-33907.3200	1
IE	2" City Water Line (by Other)	1
IF	Drain Line to Municipal Drain (by Other)	1
IG	4" TYP Drain Line With Strainer Connected to Drainage System. Ensure P-Trap is Below Frost Line to Prevent Freezing. (by Other)	1
Pressure Regulator	2" Pressure Regulator (by Vortex)	1
Backflow Preventer	2" Backflow Preventer (by Other)	1
Solenoid Valve	1 1/2" Solenoid Valve with Ball Valve (by Vortex)	10



REF	PRODUCT	QTY
IA	Activator N°4 VOR 0622	1
B	Aqua Dome N°1 VOR 0555 (Existing)	1
C	Twinsplash VOR 7242	1
D	Spraylink™ Split VOR 3003	4
E	Spraylink™ Fountain VOR 3007	1
F	Spray Loop VOR 0519	2
G	Spraylink™ Tunnel N°1 VOR 3054	2
H	Spraylink™ Jet N°1 VOR 3000	2
I	Spraylink™ Bloom VOR 3006	1



1
E-003

BONDING LAYOUT
1. REFER TO SPECS ON COVER PAGE
2. COORDINATE THIS DRAWING WITH
ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL.

BONDING WIRE - - - - -



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Miguel-Luna-Park-Providence

Project Location			
RI			
Project Number			
42540			
Version			
VE			
08/April/2025	Issued for Approval	00	BR
Date	Revision Description	No.	By
Drawing Title			
Bonding Layout			
Drawn by		Verified by	
BR		MAB	
Scale		Date	
1/4" = 1'-0"		08/April/2025	
Page #			
E-003			

SECTION 32 33 00

SITE FURNISHINGS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Seating.
 - 2. Tables.
 - 3. Trash receptacles.

1.3 ACTION SUBMITTALS

- A. Manufacturer's Literature: Submit copies of each of manufacturer's material descriptions, dimensions, details, and installation instructions for the following. Submit manufacturer's material descriptions for primer coat and finish coat.

1.4 INFORMATIONAL SUBMITTALS

- A. Complete Shop Drawings for the installation of 6' bench with back.
- B. Complete Shop Drawings for the installation of 6' backless bench.
- C. Complete Shop Drawings for the installation of 8' ADA picnic table with benches.
- D. Complete Shop Drawings for the installation of 6' picnic table with benches.
- E. Complete Shop Drawings for the installation of trash receptacle with metal hood.

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For site furnishings to include in maintenance manuals.
- B. The Contractor shall furnish and deliver standard written manufacturer's guarantee in Owner's name covering all materials and workmanship under this Section 323300, Site

Furnishings, in addition to, and not in lieu of, guarantee requirements set forth under Section 010000, GENERAL REQUIREMENTS, and other liabilities which the Contractor may have by law or other provisions of the Contract Documents.

- C. Supplier shall pay for repairs of any damage to any part of the project caused by defects in his work and for any repair to the materials or equipment caused by replacement. All repairs are to be done to the satisfaction of the Owner's Representative.
- D. Any part of the work installed under this contract requiring excessive maintenance shall be considered as being defective, and shall be replaced by the Supplier during the one year guarantee period at no cost to the Owner.

PART 2 PRODUCTS

2.1 SEATING

- A. 72" long Bench with Backrest, Thermally Modified Red Oak wood slats with black supports, (model #34-60TMR) as manufactured by Dumor, Inc P.O. Box 142 Mifflintown, PA 17059 or approved equal.
 - 1. Surface mount (S-2)
 - 2. Inground mount (S-1)
- B. 72" long Backless Bench, Thermally Modified Red Oak wood slats with black supports, (model # 6B-115) as manufactured by Dumor, Inc P.O. Box 142 Mifflintown, PA 17059 or approved equal.
 - 1. Surface mount (S-2)
 - 2. Inground mount (S-1)
- C. 72" long TenderTuff Player's Backless Bench, (model # 141683D) as manufactured by Landscape Structures, 601 7th Street South, Delano, MN 55328, <https://www.playlsi.com/en/commercial-playground-equipment/playground-components/tendertuff-bench/> or approved equal.

2.2 TABLES

- A. 8' long ADA Picnic Table, surface mount, Thermally Modified Red Oak wood slats with Black supports, (model #67-079-68-1) as manufactured by DuMor, Inc., P.O. Box 142, Mifflintown, PA 17059 800.598.4018, or approved equal.
- B. 6' long Picnic Table, surface mount, Thermally Modified Red Oak wood slats with Black supports (model 67-079-6) as manufactured by DuMor, Inc. P.O. Box 142, Mifflintown, PA 17059 800.598.018 or approved equal.

2.3 SHADE

2.4 TRASH RECEPTACLES

- A. 26-1/2"OD x 36"H, Perforated, black thermo-plastic coated round steel Trash Receptacle (Model #CN-R/R-55) with Dome Lid (CN), heavy duty rigid Plastic Liner (CN/B) and Cable Kit (CK-5), surface mount on concrete pad, as manufactured by Pilot Rock, or approved equal.

2.5 FABRICATION

- A. Factory Assembly: Factory assemble components to greatest extent possible to minimize field assembly. Clearly mark units for assembly in the field.

2.6 GENERAL FINISH REQUIREMENTS

- A. Appearance of Finished Work: Noticeable variations in same piece are unacceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for correct and level finished grade, mounting surfaces, installation tolerances, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Comply with manufacturer's written installation instructions unless more stringent requirements are indicated. Complete field assembly of site furnishings where required.
- B. All metal inserts, anchor slots, anchors, anchor bolts, fastenings, and other fastening devices, for attachment of site improvement items to pavements, except as otherwise specified under other Sections of this Specification, shall be in specified, provided, delivered installed and paid for under the work of this Section 02800, Site Furnishings.
- C. Unless otherwise indicated, install site furnishings after landscaping and paving have been completed.
- D. Free-standing site improvement items shall be set plumb and horizontal regardless of the pitch of the finished surrounding grade unless otherwise shown on the Contract Documents.
- E. The Contractor shall be responsible for timing the delivery of site improvement items so as to minimize the on-site storage time prior to installation. All stored materials are the

responsibility of the Contractor and shall be protected from weather, careless handling and vandalism.

- F. Contractor shall be responsible for the correct location of site improvement items. Take particular care to maintain shapes, plumb and level during the pouring of concrete.
- G. All Work shall be accurately set to established lines and elevations and rigidly set in place to supporting construction.
- H. Install site furnishings level, plumb, true, and positioned at locations after final approval in the field by Owner's Representative.
- I. Post Setting: Set cast-in support posts in concrete footing with smooth top, shaped to shed water. Protect portion of posts above footing from concrete splatter. Verify that posts are set plumb or at correct angle and are aligned and at correct height and spacing. Hold posts in position during placement and finishing operations until concrete is sufficiently cured.

END OF SECTION

SECTION 11 68 40 SPLASHPAD PLAY EQUIPMENT

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Splash pad features.
 - 2. Manifold.
- B. Related Sections:
 - 1. Section 260000 Electrical.
 - 2. Section 321313 Concrete Paving.

1.3 ACTION SUBMITTALS

- A. Manufacturer's Literature: Submit copies of each of manufacturer's material descriptions, dimensions, details, and installation instructions for all products.

1.4 INFORMATIONAL SUBMITTALS

- A. Manufacturer's P&E Plan (if any adjustments are made to Splash Pad layout or design after the bidding process).

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For splash pad fixtures to include in maintenance manuals.
- B. The Contractor shall furnish and deliver standard written manufacturer's guarantee in Owner's name covering all materials and workmanship under this Section 116840, Splashpad Play Equipment, in addition to, and not in lieu of, guarantee requirements set forth under Section 010000, GENERAL REQUIREMENTS, and other liabilities which the Contractor may have by law or other provisions of the Contract Documents.
- C. Supplier shall pay for repairs of any damage to any part of the project caused by defects in his work and for any repair to the materials or equipment caused by replacement. All repairs are to be done to the satisfaction of the Owner's Representative.

- D. Any part of the work installed under this contract requiring excessive maintenance shall be considered as being defective, and shall be replaced by the Supplier during the one year guarantee period at no cost to the Owner.

PART 2 PRODUCTS

2.1 SPLASH PAD FEATURES

- A. Activator N°4, VOR 0622
- B. Aqua Dome N°1, VOR 0555 (Deliver & Install)
- C. Spraylink™ Split, VOR 3003
- D. Spraylink™ Fountain, VOR 3007
- E. Spray Loop, VOR 0519
- F. Spraylink™ Tunnel N°1, VOR 3054
- G. Spraylink™ Jet N°1, VOR 3000
- H. Spraylink™ Bloom, VOR 3006
- I. Twinsplash, VOR 7242

2.2 SPLASH PAD MANIFOLD & ACCESSORIES

- A. Water Distribution System WCC 2.0 Wall-Mounted Command Center
- B. MaestroPRO Controller 24 out/ 12 in, Model # VOR-33907.3200
- C. MaestroPRO Power Box, Model # VOR-33907.3200
- D. 2" Pressure Regulator
- E. 1" Solenoid Valve with Ball Valve & Union

2.3 PRODUCT CONSTRUCTION

- A. The aquatic play products shall be suitable for installation in municipal and commercial aquatic facilities and public play areas.
- B. Products shall be specifically designed for use by children and adults and follow the ASTM F2461-09 norm. In addition, products shall be manufactured by a company that has at least five (5) years of experience in the design and engineering of children's aquatic play areas.

- C. Any aquatic play product belonging to a new product line or series should demonstrate meeting the effective norm or show the conformity and resistance of the prescribed materials if it is proposed equivalency. The contractor or manufacturer must demonstrate meeting specifications by providing technical documents and drawings to be included in their bid proposal.
- D. Play Products: All aquatic play products installed above and below grade shall be manufactured from 304/304L stainless steel. The anchoring system and associated fastening hardware shall be manufactured from 304/304L stainless steel. Rigid centricast fiber reinforced (FRP) and/or molded fiberglass, PVC, filament wound tubing, Galvanized Steel, or Aluminum shall not be utilized for any above or below grade play product structures.
- E. Mounting and Assembly Hardware: All hardware and anchoring systems shall be 304/304L stainless steel. All Play Products and Ground Spay systems shall include an integrated anchoring and leveling system facilitating installation and a flush surface finish. Exposed and accessible hardware shall be tamper resistant, requiring a special tool for removal to deter
- F. Spray nozzles, caps and heads: Shall be manufactured from C360 brass and shall use tamper resistant tools for installation and removal. PVC, Nylon, and Delrin [™], shall not be utilized. All grade level play products are to be furnished with appropriate winterization caps.
- G. Polished Finish: All stainless steel above ground features shall have a high- luster polished finish.
- H. Material for Paneling, Signage, Water Deflection, and Toe Guards: All Polyethylene, Polyurethane, Elastomers, and Seeflow Polymers used for paneling, signage or water deflection shall be resistant to chlorinated water and be ultraviolet stabilized to inhibit sunlight fading.
- I. Safety & Craftsmanship: All accessible edges shall be machined to a rounded finish. All welds shall be watertight, buffed smooth, or polished to a non-visible finish and factory pressure tested. Accessible nozzles and spray heads shall be recessed to ensure a completely safe play environment with no pinch points, head entrapments or protrusion hazards. All products shall be designed in accordance with ASTM F1487, ASTM F-2461 and CSA Z614-98 regulations for public playgrounds.
- J. Lexan Polymer: The Lexan Polymer shall be specially selected for aquatic play products and shall have the following characteristics: translucent, highly resistant to shock and impact, vandalism and must be non-flammable. The polymer shall present dimensional stability a high resistance towards chemical products, ultra violets rays and be transparent presenting crystal clear surface throughout.
- K. H. Seeflow Polymer: The Seeflow Polymer shall be specially selected for aquatic play products and shall have the following characteristics: translucent, highly resistant to shock and impact, vandalism and must be non-flammable. The polymer shall present dimensional stability a high resistance towards chemical products, ultra violets rays and be transparent presenting crystal clear surface throughout.

PART 3 EXECUTION

3.1 EXECUTION

- A. Should the bidder wish to substitute products other than the products specified herein, the bidder shall list products and submit a written Substitution Form of Proposal at least 10 calendar days prior to the date of receipt of bids. The bidder shall submit specifications, cut sheets, and performance data, along with an itemization listing each and every deviation from the specifications herein.
- B. The manufacturer shall furnish the purchaser with at least two sets of complete installation and operating manuals. The installation manual will illustrate the installation of the entire system. It shall describe the start-up procedure and day- to- day operation of the system.

3.2 PLAY PRODUCT INSTALLATION

- A. When applicable, templates shall be supplied to facilitate the installation of embedded anchoring equipment.
- B. All play products shall have electrical grounding studs incorporated into their associated anchoring equipment. All play products shall be grounded by the installer per local codes.
- C. All installation conduit wiring including electrical supply panel, PVC connections, piping, elbows, tees, play product assembly if required and other items relating to the installation shall be supplied by the general contractor.
- D. Drawings and Instructions: Product drawings and installation manuals shall be supplied by the manufacturer for ease of installation.

3.3 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. All aquatic play products and associated equipment must be properly wrapped and secured in place while in transport to the project site. Care shall be observed during offloading and handling to prevent excessive stress and abrasions.
- B. At the site, the play products and associated equipment are to be stored in safe areas, out of the way of traffic and other construction activities, until the actual time of installation. If required, safety barricades or other like precautions must be taken for the protection of public and adjacent property.
- C. Protective wrapping on the aquatic play features must be left in place until construction work for the Splashpad is complete.

3.4 COMMISSIONING OF THE SPLASHPAD

- A. Upon completion of construction, the general contractor shall provide the owner/operator

adequate training on facility operations and maintenance. The contractor may request that the equipment manufacturer and/or manufacturer's representative provide on-site start-up and training for the owner/operator.

3.5 SPLASHPAD QUALITY ASSURANCE

- A. Provide evidence of commitment of quality craftsmanship as demonstrated by the following manufacturer qualifications:
- B. The products shall be designed and produced at a facility owned and directly supervised by the supplier.
- C. All products shall be shipped from a single source.
- D. A full time licensed engineer must be on-staff.
- E. A full time quality control manager must be on-staff.

3.6 EQUIVALENCIES CLAUSES

- A. To enable all bids to be judged equitably, they shall be based on the specified products in this document and shown on the drawings.
- B. A. The proposal for any substitute products must be attached to the bid separately, identifying the substitute product by its trade name along with any savings it may represent for the client.
- C. B. Following the opening of the bid, only those substitutes proposed by the lowest bidder of the specified products, will be considered.
- D. C. All substitute approval requests shall be accompanied by manufacturing drawings, including spray zones, sequencing, plumbing and electrical schematics and complete salt spray resisting testing data produced by an independent laboratory for coatings and a written warranty from the manufacturer.
- E. No substitution or equivalency submitted will be considered if products to be considered are not part of manufacturer standard existing product line or a written proof that product has manufactured previously by the substitute manufacturer. Please refer to General Clauses 1.1.
- F. D. Each substitute sample must be presented to the owner/consultant within seven days following the opening of bids. The sample must be completely operational. After this time period, the bidder will be required to supply the original specified product.
- G. E. The owner/consultant reserves the right to grant or deny approval for proposed substitutions without prejudice to his rights and his decision shall be final. The above conditions apply to this section independently of any other clauses on the subject found in this document.

- H. F. If applicable the products must be interchangeable and of equivalent quality to the materials already installed.

3.7 SPLASHPAD EQUIPMENT WARRANTIES

- A. Minimum Warranty periods.
- B. Splashpad Play Events/Products & Skid Mounted Water Quality Management System Equipment.
- C. A 25 Year Warranty on stainless steel Play Events/Products, stainless steel anchoring systems and aluminum spheres.
- D. A 10 Year Warranty on the reinforced fiberglass skid, sand filter fiberglass tank and cartridge filter fiberglass tank.
- E. A 5 Year Warranty on brass components including; spray nozzles, spray caps and spray heads. High-density polyethylene components, polyurethane components, and ultra high molecular weight polyethylene components. The Subterranean vault (enclosure and access hatches), stainless steel automated water distribution manifold, drain boxes, strainers, electrical enclosures, and chemical controllers.
- F. A 2 Year Warranty on color coatings, stainless steel hardware & moving parts, fiberglass products, Seeflow Polymers, Soft Touch Elastomers (Toe Guards), subterranean water containments system, circulation pumps, chemical injection pumps, chlorinator systems, acid feed systems, polyvinyl chloride (PVC); piping, fittings, ball valves, check valves, cartridge elements, pressure gauges, chemical sensing probes, motor starters, electrical relays, terminal blocks, actuated valves, programmable logic controller (PLC controller), time switches, manual switches, transformers, breakers, electrical wiring and connections.
- G. All warranties are to be managed by the equipment supplier.

END OF SECTION