



Planting Fields Entry Drive Trees, Walk and Drive Repair ADDENDUM No. 1

10 March 2023

Additional Bid Drop off Information:

BID DUE: Wednesday March 15th by 4:00 PM

Sealed Envelope, Hand Delivered to Planting Fields Foundation

To: Lilly McGurk, Director of Stewardship & Events

Room: Planting Fields Visitor Center – Coe Hall

Hours: Between 10:00 am and 4:00PM

Bids: Must be logged in by 4:00 PM

Request for BIDS: Mark Envelope as Follows:

Planting Fields Foundation Entry Drive: Trees, Walk and Drive Repair

1395 Planting Fields Road, Oyster Bay, NY 11771

Attached with this Addendum

- 1. Bid Form & Required Documents**
- 2. Drawing Revision Set:** Issued 10 March 2023 Addendum No.1
Note the full set is reissued with Revisions Clouded and Identified as Addendum No. 1
- 3. Specification Section 01 5000 Temporary Facilities and Controls:** Added to Part 1 Section 1.2 Summary is 3. Traffic maintenance and Control, Added to Section 1.4 is C. Traffic Control Plan, and to Part 3 Section 3.3, G Traffic Controls.

Heritage Landscapes LLC

Preservation Landscape Architects & Planners

www.heritagelandscapes.com

501 Lake Road Charlotte, VT 05445 802.425.4330 34 Wall Street Norwalk, CT 06850 203.852.9966

4. **Specifications Section 32 3200 Turf and Grasses:** Part 2 Products, Section 2.2 B. No-Mow supplier added. Part 3 Execution, Section 3.3 is amended, with sections 3.4 and 3.5 Added. Subsequent sections are unchanged with renumbering 3.6 Seeding, item C modified, 3.7 Hydroseeding, 3.8 Turf Maintenances, 3.9 Satisfactory Turf. 3.10 Pesticide Application 3.11 Cleanup and Protection.
5. **Questions and Response Dated 10 March 2023**
6. **Addendum Acknowledgement Form**
7. **Potential Bidders list 10 March 2023**



**Planting Fields Entry Drive Trees, Walk and Drive Repair
ADDENDUM No. 1 Revised Bid Form and Acknowledgements
10 March 2023**

BID FORM & REQUIRED DOCUMENTS

- Completed Bid Form with Signature
- All questions on bid form answered
- Three Project References on Form
- Non-Collusion Form

Bids must be guaranteed for a period of four months. Company signature indicates such guarantee and responds clearly to questions. Bid submission shall provide the following information.

Company Name:

Company Street Address:

Company Representative Signature:

Typed name of Company Signer:

Bidder Contact person:

Contact Phone Number:

Contact email:

For the following four questions, circle Yes or No:

1. Affirm that the Bidder or Subcontractors have project experience in:

- | | |
|---|-----------|
| Large tree planting | Yes or No |
| Excavation, soil management and grading | Yes or No |
| Sediment and erosion control | Yes or No |
| Concrete walk construction with exposed aggregate | Yes or No |

Provide project references on the required form for projects that include the above experience.

2. Affirm that you have read the Supplemental Bid Requirements: Yes or No

3. Acknowledge Addendum 1 is received and incorporated in your bid: Yes or No

4. Is the Bidder MBE or WBE? **MBE** Yes or No **WBE** Yes or No

Bid Amount for All Work identified in drawings and specifications:

Amount In Numbers: \$ _____

Dollar Amount in Text: _____

Provide the MBE and WBE percentages in your bid:

MBE target is 13%	Your Bid _____%
WBE target is 17%	Your Bid _____%

Sub-Contractors Identification List Bidder Sub-Contractors and the responsibilities of each.

THIS REQUEST FOR BIDS IS NOT A GUARANTEE OF EXECUTION OF A CONTRACT.



Planting Fields Entry Drive Trees, Walk and Drive Repair ADDENDUM No. 1

10 March 2023

Bidder Questions and Responses

1. *Are we required to provide a bid bond with the bid submission? If so what percentage of the bid?*
Bid Bond is not Required for this project.
2. *Are we to provide payment and performance bonds if awarded the contract?*
Performance Bond is not Required for this project.
3. *Will the site be open to the public during construction?*
The site is open to the public between the hours of 9:00 Am and 5:00 PM
Contractor working hours are between 7:00 and 5:00 PM Monday through Friday
4. *Can you confirm the extent of the brick paver area to be reset? Is the area to be reset limited to the section in between the piers adjacent to the new concrete walk?*
No, the extent of resetting brick pavers will be based on establishing as smooth ADA acceptable, no- tip hazard transition between the existing brick terrace paving and new concrete walk.
5. *Can you provide an electrical plan and details? It is not clear how the lights are being powered or controlled.*
The electrical work scope is reduced to fixture(s) removal and installation of conduit and pull boxes. See Revised Drawing Sheet L-1.3 for Addendum No.1
6. *Can you confirm the amount of onsite stone available to reconstruct the stone retaining wall? How much additional stone will need to be provided by the contractor?*
The stone taken down will be used to reconstruct the end of the stone wall.

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7. *Is the contractor responsible for a construction fence around the work area? If so please provide a plan showing the location of the fences and gates as well as the fence height and details.*

A construction fence as illustrated in Detail No. 1 on drawing sheet R-1.4 is required around the construction staging and materials storage area. The actual size of that area will be determined based on need and available space.

The Contractor is responsible for pedestrian protection by installing protection measures to deter visitors and staff from entering the active work area. Detail 1 on drawing sheet R-1.1 or an approved alternative may be used.

8. *How many project signs are required to be provided (spec 015000)?*

One project sign panel is required. The information to be included on the panel will be refined following contract award.

9. *Please provide a specific stone supplier for the exposed aggregate pavement #8 washed stone.*

Local stone is preferred. Color tones in beige brown are preferred. Source has not been identified.

10. *Is there a color to be added to the exposed aggregate concrete? If so please provide a color and product.*

The specification includes a color additive in one of the test panels. Beige tones preferred.

11. *How long is the contractor required to maintain the new trees?*

The Contractor is responsible for maintenance of work, including water the trees until substantial completion is achieved.

12. *Is there an existing irrigation on-site?*

There are lawn hydrants/quick couplers in various locations along the entry drive for contractor use.

13. *Will modifications to be existing irrigation system be required as part of this contract? If so please provide plan.*

The entry drive area does not have automatic irrigation. Modifications to an irrigation system are not part of this work scope. The contractor is responsible for repairing and damaged piping or water supply equipment damaged during site operations.

14. *Can I obtain a list of the potential bidders?*

List of bidders who have downloaded plans or attending an on-site review attached.



Planting Fields Entry Drive Trees, Walk and Drive Repair
ADDENDUM No. 1
COVER PAGE

10 March 2023

Addendum Acknowledgement

Please indicate that you have received the following addendum items by checking them off and include this signed form in your Bid Submission package.

- Bid Drop off Information to Coe Hall
- Bid Form & Required Documents
- Drawing Revision Set dated 10 March 2023
- Specifications Section 01 5000 Temporary Facilities and Controls
- Specifications Section 32 3200 Turf and Grasses
- Questions and Responses Dated 10 March 2023
- Potential Bidder list 10 March 2023

Signature:

Date:

Printed Name and Bidder Company

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SECTION 32 9200 – TURF AND GRASSES

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. Seeding.
2. Hydroseeding.
3. Turf renovation.
4. Erosion-control material(s) for seeded lawns.

- B. Related Sections:

1. Division 31 Section "Site Clearing" for topsoil stripping and stockpiling.
2. Division 31 Section "Earth Moving" for excavation, filling and backfilling, and rough grading.
3. Division 32 Section "Planting"

1.3 DEFINITIONS

- A. **Duff Layer:** The surface layer of native topsoil that is composed of mostly decayed leaves, twigs, and detritus.
- B. **Finish Grade:** Elevation of finished surface of planting soil.
- C. **Manufactured Topsoil:** Soil produced off-site by homogeneously blending mineral soils or sand with stabilized organic soil amendments to produce topsoil or planting soil.
- D. **Pesticide:** A substance or mixture intended for preventing, destroying, repelling, or mitigating a pest. This includes insecticides, miticides, herbicides, fungicides, rodenticides, and molluscicides. It also includes substances or mixtures intended for use as a plant regulator, defoliant, or desiccant.
- E. **Pests:** Living organisms that occur where they are not desired or that cause damage to plants, animals, or people. These include insects, mites, grubs, mollusks (snails and slugs), rodents (gophers, moles, and mice), unwanted plants (weeds), fungi, bacteria, and viruses.
- F. **Planting Soil:** Imported topsoil; or manufactured topsoil that is modified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth as specified in the soils specification division 32.

- G. Subgrade: Surface or elevation of subsoil remaining after excavation is complete, or top surface of a fill or backfill before planting soil is placed.
- H. Subsoil: All soil beneath the topsoil layer of the soil profile, typified by the lack of organic matter and soil organisms.
- I. Surface Soil: Soil that is present at the top layer of the existing soil profile at the Project site. In undisturbed areas, the surface soil is typically topsoil, but in disturbed areas such as urban environments, the surface soil can be subsoil.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
 - 1. Pesticides and Herbicides: Include product label and manufacturer's application instructions specific to this Project.

1.5 INFORMATIONAL SUBMITTALS

- A. Certification of Grass Seed: From seed vendor for each grass-seed monostand or mixture stating the botanical and common name, percentage by weight of each species and variety, and percentage of purity, germination, and weed seed. Include the year of production and date of packaging.
- B. Qualification Data: For qualified landscape Installer.
- C. Product Certificates: from manufacturer.
- D. Maintenance Instructions: Recommended procedures to be established by Owner for maintenance of turf and meadows during a calendar year. Submit before expiration of required initial maintenance periods.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified landscape Installer whose work has resulted in successful turf and meadow establishment.
 - 1. Professional Membership: Installer shall be a member in good standing of either the Professional Landcare Network or the American Nursery and Landscape Association.
 - 2. Experience: Five years' experience in turf installation in addition to requirements in Division 01 Section "Quality Requirements."
 - 3. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when work is in progress.
 - 4. Personnel Certifications: Installer's personnel assigned to the Work shall have certification in the following categories from the Professional Landcare Network:
 - a. Certified Turfgrass Professional, designated CTP.

5. Maintenance Proximity: Not more than one hours' normal travel time from Installer's place of business to Project site.
6. Pesticide Applicator: State licensed, commercial.

- B. Pre-installation Conference: Conduct conference at Project site to review site preparation, seeding and erosion control procedures.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Seed and Other Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and indication of conformance with state and federal laws, as applicable.

- B. Bulk Materials:

1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants.
2. Provide erosion-control measures to prevent erosion or displacement of bulk materials, discharge of soil-bearing water runoff, and airborne dust reaching adjacent properties, water conveyance systems, or walkways.
3. Accompany each delivery of bulk fertilizers, lime, and soil amendments with appropriate certificates.

1.8 PROJECT CONDITIONS

- A. Planting Restrictions: Plant during one of the following periods. Coordinate planting periods with initial maintenance periods to provide required maintenance from date of Substantial Completion.

1. Spring Planting: Mid April through Mid June
2. Fall Planting: Late August through end of September

- B. Weather Limitations: Proceed with planting only when existing and forecasted weather conditions permit planting to be performed when beneficial and optimum results may be obtained. Apply products during favorable weather conditions according to manufacturer's written instructions.

1.9 MAINTENANCE SERVICE

- A. Initial Turf Maintenance Service: Provide full maintenance by skilled employees of landscape Installer. Maintain as required in Part 3. Begin maintenance immediately after each area is planted and continue until acceptable turf is established but for not less than the following periods:

1. Seeded Turf: 60 days from date of planting completion to Substantial Completion
 - a. When initial maintenance period has not elapsed before end of planting season, or if turf is not fully established, continue maintenance during next planting season.

PART 2 - PRODUCTS

2.1 SEED: MOWN TURF

- A. Grass Seed: Fresh, clean, dry, new-crop seed complying with AOSA's "Journal of Seed Technology; Rules for Testing Seeds" for purity and germination tolerances.
- B. Seed Species: State-certified seed of grass species as follows:
- C. Seed Species Mix: Seed of grass species as follows, with not less than **95** percent germination, not less than **85** percent pure seed, and not more than **0.5** percent weed seed:
 - 1. Sun and Partial Shade: Proportioned by weight as follows:
 - a. 10 percent Kentucky bluegrass (*Poa pratensis*).
 - b. 75 percent Creeping fescue (*Festuca* variety).
 - c. 15 percent perennial ryegrass (*Lolium perenne*).

2.2 SEED: NO-MOW TURF

- A. Grass Seed: Fresh, clean, dry, new-crop seed complying with AOSA's "Journal of Seed Technology; Rules for Testing Seeds" for purity and germination tolerances.
- B. Seed Species Mix: See species No-Mow mix as identified on the planting plan drawings L-3.1
 - 1. Available from Prairie Nursery Inc. P.O. Box 306 Westfield, WI 53964
 - 2. Or approved equivalent

2.3 FERTILIZERS

- A. Bonemeal: Commercial, raw or steamed, finely ground; a minimum of 4 percent nitrogen and 10 percent phosphoric acid.
- B. Superphosphate: Commercial, phosphate mixture, soluble; a minimum of 20 percent available phosphoric acid.
- C. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, 50 percent derived from natural organic sources of urea formaldehyde, phosphorous, and potassium in the following composition:
 - 1. Composition: 1 lb/1000 sq. ft. (0.45 kg/92.9 sq. m) of actual nitrogen, 4 percent phosphorous, and 2 percent potassium, by weight.
 - 2. Composition: Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified soil-testing laboratory.
- D. Slow-Release Fertilizer: Granular or pelleted fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorus, and potassium in the following composition:

1. Composition: 20 percent nitrogen, 10 percent phosphorous, and 10 percent potassium, by weight.
2. Composition: Nitrogen, phosphorous, and potassium in amounts recommended in soil reports from a qualified soil-testing laboratory.

2.4 PLANTING SOILS

- A. Planting Soil: See Division 32 Section 32 9100 Soils for soil requirements and testing.

2.5 MULCHES

- A. Straw Mulch: Provide air-dry, clean, mildew- and seed-free, salt hay or threshed straw of wheat, rye, oats, or barley.
- B. Fiber Mulch: Biodegradable, dyed-wood, cellulose-fiber mulch; nontoxic and free of plant-growth or germination inhibitors; with a maximum moisture content of 15 percent and a pH range of 4.5 to 6.5.
- C. Nonasphaltic Tackifier: Colloidal tackifier recommended by fiber-mulch manufacturer for slurry application; nontoxic and free of plant-growth or germination inhibitors.

2.6 PESTICIDES

- A. General: Pesticide, registered and approved by EPA, acceptable to authorities having jurisdiction, and of type recommended by manufacturer for each specific problem and as required for Project conditions and application. Do not use restricted pesticides unless authorized in writing by authorities having jurisdiction.
- B. Pre-Emergent Herbicide (Selective and Non-Selective): Effective for controlling the germination or growth of weeds within planted areas at the soil level directly below the mulch layer.
- C. Post-Emergent Herbicide (Selective and Non-Selective): Effective for controlling weed growth that has already germinated.

2.7 EROSION-CONTROL MATERIALS

- A. Erosion-Control Blankets: Biodegradable wood excelsior, straw, or coconut-fiber mat enclosed in a photodegradable plastic mesh. Include manufacturer's recommended steel wire staples, 6 inches (150 mm) long.
 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Invisible Structures, Inc.; Slopetame 2.
 - b. Presto Products Company, a business of Alcoa; Geoweb.
 - c. Tenax Corporation - USA; Tenweb.
 - d. Or approved equivalent.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas to be planted for compliance with requirements and other conditions affecting installation and performance of the Work.
 - 1. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in soil within a planting area.
 - 2. Suspend planting operations during periods of excessive soil moisture until the moisture content reaches acceptable levels to attain the required results.
 - 3. Uniformly moisten excessively dry soil that is not workable or which is dusty.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
- C. If contamination by foreign or deleterious material or liquid is present in soil within a planting area, remove the soil and contamination as directed by Architect and replace with new planting soil.

3.2 PREPARATION GENERAL

- A. Protect structures, utilities, sidewalks, pavements, and other facilities, trees, shrubs, and plantings from damage caused by planting operations.
 - 1. Protect adjacent and adjoining areas from hydroseeding and hydromulching overspray.
 - 2. Protect grade stakes set by others until directed to remove them.
- B. Install erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

3.3 NO-MOW TURF AREA PREPARATION: GRUBBED VEGETATION AREAS

- A. Limit turf finish grade and subgrade preparation to areas to be planted.
- B. Existing Bed Planting Areas to be Seeded with No-Mow Turf
 - 1. Prepare areas to be reseeded by removal and grubbing of the existing vegetation. Removal shall include and not limited to plant materials, root masses or other debris remaining from plant clearing operations by others.
 - 2. Avoid damaging operations in areas of critical root zones for trees to remain. Consult with Landscape Architect on methods for clearing these areas.
 - 3. Determine grade elevations of the west walk and along the west and east allee tree planting with the Landscape Architect as outlined in Section 01 7300 Execution
 - a. Set grade stakes indicating desired finish walk and grade elevations.
 - 4. Remove topsoil, (acceptable soil) in order to establishing the desired sub-grade and smooth transitions between the former planting and mown turf areas

5. Review sub-grade elevations with the Landscape Architect prior to application of topsoil (approved soil) to meet design grades.
 6. Inspect depth of topsoil in areas of minor grade change to ensure sufficient thickness for support of mow or no-mow turf seeding.
 - a. Review soil depth with Landscape Architect before proceeding with fine grading and re-seeding operations. Acceptable thickness of soil without adding additional soil or modifying existing soils is 4 to 6 inches.
 7. If the depth of acceptable soil in areas of minor grading or in areas where topsoil (acceptable soil is to be re-applied, is not sufficient, provide additional soil from acceptable materials stockpiled from walk excavation and grubbing operations.
 - a. If acceptable material is not available, amend existing soils by adding and mixing in compost up to 10% by volume as directed by the Landscape Architect
 - 1) Imported compost or other organic material costs shall be paid by the Owner. The labor for incorporating these materials shall included as base contract work.
 - b. If acceptable soil is not available, imported soil may be used with acceptance of the Landscape Architect:
 - 1) Imported soil material cost shall be paid by the Owner. The labor for spreading and grading of this material shall be included as base contract work. All areas of work are shown on the drawings.
 8. In advance of fine grading prepare the soils by
 - a. Remove existing grass, vegetation, and turf. Do not mix into surface soil.
 - b. Loosen surface soil to a depth of at least **6 inches (150 mm)**. Apply soil amendments and fertilizers according to planting soil mix proportions and mix thoroughly into top **4 inches (100 mm)** of soil. Till soil to a homogeneous mixture of fine texture.
 - c. Apply fertilizer directly to surface soil before loosening.
 - d. Remove stones larger than [**1-1/2 inches (38 mm)**] in any dimension and sticks, roots, trash, and other extraneous matter.
 - e. Legally dispose of waste material, including grass, vegetation, and turf, off Owner's property
 9. Bring acceptable soils to finish grade in preparation for seeding operations.
- C. Finish Grading: Grade planting areas to a smooth, uniform surface plane with loose, uniformly fine texture. Grade to within plus or minus 1/2 inch (13 mm) of finish elevation. Roll and rake, remove ridges, and fill depressions to meet finish grades. Limit finish grading to areas that can be planted in the immediate future.
1. Hold finish grade 1/2 to 3/4 inch below top of curb and edge of walks unless otherwise indicated, to allow to allow for turf growth and positive drainage from adjacent structures.
- D. Moisten prepared area before planting if soil is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.
- E. Before planting, obtain Landscape Architect's acceptance of finish grading; restore seeding areas if eroded or otherwise disturbed after finish grading.
- 3.4 NO-MOW TURF AREA PREPARATION: MOWN TURF (LAWN)**
- A. Limit turf finish grade and subgrade preparation to areas to be planted.
 - B. Existing Turf Areas to be Re-seeded with No-Mow Turf Mix:

1. Prepare areas to be reseeded by removal of existing turf by physical methods.
 - a. Chemical methods or applied herbicides are not permitted.
 2. Remove turf to the extent necessary for fine grading and re-seeding to blend existing turf areas with new turf areas within the No-Mow planted margin
 3. Turf Removal methods shall be reviewed and accepted by the landscape architect. Use of heavy equipment shall be avoided to prevent soil compaction: Removal methods may include and are not limited to:
 - a. Rototilling and turf removal
 - b. Skimming
 - c. Machine Toothing
 - d. Raking
 - e. Hand grubbing
 4. Soils must be loosened to a dept of 4 to 6 inches to facilitate fine grading to meet finish grades throughout the project area.
 5. Inspect depth of topsoil to ensure sufficient thickness for support of mow or no-mow turf seeding.
 - a. Review soil depth with Landscape Architect before proceeding with fine grading and re-seeding operations. Acceptable thickness of soil without adding additional soil or modifying existing soils is 4 to 6 inches.
 6. If the depth of acceptable soil is not sufficient, provide additional soil from acceptable materials stockpiled from walk excavation and grubbing operations.
 - a. If acceptable material is not available, amend existing soils by adding and mixing in compost up to 10% by volume as directed by the Landscape Architect
 - 1) Imported compost or other organic material costs shall be paid by the Owner. The labor for incorporating these materials shall be included as base contract work.
 - b. If acceptable soil is not available, imported soil may be used as accepted by the Landscape Architect:
 - 1) Imported soil material cost shall be paid by the Owner. The labor for spreading and grading of this material shall be included as base contract work. All areas of work are shown on the drawings.
 7. In advance of fine grading prepare the soils by
 - a. Remove existing grass, vegetation, and turf. Do not mix into surface soil.
 - b. Loosen surface soil to a depth of at least **6 inches (150 mm)**. Apply soil amendments and fertilizers according to planting soil mix proportions and mix thoroughly into top **4 inches (100 mm)**of soil. Till soil to a homogeneous mixture of fine texture.
 - c. Apply fertilizer directly to surface soil before loosening.
 - d. Remove stones larger than [**1-1/2 inches (38 mm)**] in any dimension and sticks, roots, trash, and other extraneous matter.
 - e. Legally dispose of waste material, including grass, vegetation, and turf, off Owner's property
 8. Bring acceptable soils to finish grade in preparation for seeding operations.
- C. Finish Grading: Grade planting areas to a smooth, uniform surface plane with loose, uniformly fine texture. Grade to within plus or minus 1/2 inch (13 mm) of finish elevation. Roll and rake, remove ridges, and fill depressions to meet finish grades. Limit finish grading to areas that can be planted in the immediate future.
1. Hold finish grade ½ to ¾ inch below top of curb and edge of walks unless otherwise indicated, to allow to allow for turf growth and positive drainage from adjacent structures.

- D. Moisten prepared area before planting if soil is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.
- E. Before planting, obtain Landscape Architect's acceptance of finish grading; restore seeding areas if eroded or otherwise disturbed after finish grading.

3.5 NO-MOW TURF AREA PREPARATION: NEWLY GRADED AREAS, EAST WALK

- A. Limit turf finish grade and subgrade preparation to areas to be planted.
- B. Existing Turf Areas to be Re-seeded with No-Mow Turf Mix:
 - 1. Prepare areas to be reseeded by removal of existing turf by physical methods.
 - a. Chemical methods or applied herbicides are not permitted.
 - 2. Remove turf to the extent necessary for fine grading and re-seeding to blend existing turf areas with new turf areas within the No-Mow planted margin.
 - 3. Turf Removal methods shall be reviewed and accepted by the landscape architect. Use of heavy equipment shall be avoided to prevent soil compaction: Removal methods may include and are not limited to:
 - a. Rototilling and turf removal
 - b. Skimming
 - c. Tothing
 - d. Hand grubbing
 - 4. Soils must be loosened to a dept of 4 to 6 inches to facilitate fine grading to meet finish grades throughout the project area.
 - 5. Inspect depth of topsoil to ensure sufficient thickness for support of mow or no-mow turf seeding.
 - a. Review soil depth with Landscape Architect before proceeding with fine grading and re-seeding operations. Acceptable thickness of soil without adding additional soil or modifying existing soils is 4 to 6 inches.
 - 6. If the depth of acceptable soil is not sufficient, provide additional soil from acceptable materials stockpiled from walk excavation and grubbing operations.
 - a. If acceptable material is not available, amend existing soils by adding and mixing in compost up to 10% by volume as directed by the Landscape Architect
 - 1) Imported compost or other organic material costs shall be paid by the Owner. The labor for incorporating these materials shall included as base contract work.
 - b. If acceptable soil is not available, imported soil may be used with acceptance of the Landscape Architect:
 - 1) Imported soil material cost shall be paid by the Owner. The labor for spreading and grading of this material shall be included as base contract work. All areas of work are shown on the drawings.
 - 7. Bring acceptable soils to finish grade in preparation for seeding operations.
- C. Newly Graded Subgrades: Loosen subgrade to a minimum depth of 6 inches (150 mm) Remove stones larger than 2 inches (50 mm) in any dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose of them off Owner's property.
 - 1. Spread acceptable soil to a depth of 6 inches (150 mm) but not less than required to meet finish grades after light rolling and natural settlement. Do not spread if acceptable soil or subgrade is frozen, muddy, or excessively wet.

- a. Spread approximately 1/2 the thickness of acceptable soil over loosened subgrade. Mix thoroughly into top 2 inches (50 mm) of subgrade. Spread remainder of acceptable soil.
 2. If acceptable soil is not sufficient, provide additional soil from acceptable materials stockpiled from walk excavation and grubbing operations.
 - a. If acceptable material is not available, amend existing soils by adding compost and other organic materials as directed by the Landscape Architect
 - 1) Imported compost or other organic material costs shall be paid by the Owner. The labor for incorporating these materials shall included as base contract work.
 - b. If acceptable soil is not available, imported soil may be used with acceptance of the Landscape Architect:
 - 1) Imported soil material cost shall be paid by the Owner. The labor for spreading and grading of this material shall be included as base contract work.
 3. Spread acceptable soil to a depth of 6 inches (150 mm) but not less than required to meet finish grades after light rolling and natural settlement. Do not spread if acceptable soil or subgrade is frozen, muddy, or excessively wet.
 - a. Spread approximately 1/2 the thickness of acceptable soil over loosened subgrade. Mix thoroughly into top 2 inches (50 mm) of subgrade. Spread remainder of acceptable soil.
- D. Unchanged Subgrades: If turf is to be planted in areas along the margins of newly graded areas that are unaltered or undisturbed by excavating, grading, or surface-soil stripping operations, prepare surface soil as follows:
 1. Follow the preparation measured outlined in Section 3.4 No-Mow Turf Preparation in Mown Turf Lawns.
- E. Finish Grading: Grade planting areas to a smooth, uniform surface plane with loose, uniformly fine texture. Grade to within plus or minus 1/2 inch (13 mm) of finish elevation. Roll and rake, remove ridges, and fill depressions to meet finish grades. Limit finish grading to areas that can be planted in the immediate future.
 1. Hold finish grade 1/2 to 3/4 inch below top of curb and edge of walks unless otherwise indicated, to allow to allow for turf growth and positive drainage from adjacent structures.
- F. Moisten prepared area before planting if soil is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.
- G. Before planting, obtain Landscape Architect's acceptance of finish grading; restore planting areas if eroded or otherwise disturbed after finish grading.

3.6 SEEDING

- A. Sow seed with spreader or seeding machine. Do not broadcast or drop seed when wind velocity exceeds **5 mph (8 km/h)**. Evenly distribute seed by sowing equal quantities in two directions at right angles to each other.
 1. Do not use wet seed or seed that is moldy or otherwise damaged.

2. Do not seed against existing trees. Limit extent of seed to outside edge of planting saucer.
- B. Rake seed lightly into top **1/8 inch (3 mm)** of soil, roll lightly, and water with fine spray.
- C. Protect seeded areas with slopes exceeding 1:3 with erosion-control fiber mesh without plastic components, installed and stapled with biodegradable staples according to manufacturer's written instructions.
- D. Protect seeded areas with slopes not exceeding 1:6 by spreading straw mulch. Spread uniformly at a minimum rate of **2.5 tons/acre (52 kg/92.9 sq. m)** to form a continuous blanket in loose thickness over seeded areas. Spread by hand, blower, or other suitable equipment.
 1. Anchor straw mulch by crimping into soil with suitable mechanical equipment.
 2. Bond straw mulch by spraying with asphalt emulsion at a rate of **10 to 13 gal./1000 sq. ft. (38 to 49 L/92.9 sq. m)** Take precautions to prevent damage or staining of structures or other plantings adjacent to mulched areas. Immediately clean damaged or stained areas.

3.7 HYDROSEEDING

- A. Hydroseeding: Mix specified seed, fertilizer, and fiber mulch in water, using equipment specifically designed for hydroseed application. Continue mixing until uniformly blended into homogeneous slurry suitable for hydraulic application.
 1. Mix slurry with fiber-mulch manufacturer's recommended tackifier.
 2. Apply slurry uniformly to all areas to be seeded in a one-step process. Apply slurry at a rate so that mulch component is deposited at not less than **1500-lb/acre (15.6-kg/92.9 sq. m)** dry weight, and seed component is deposited at not less than the specified seed-sowing rate.
 3. Apply slurry uniformly to all areas to be seeded in a two-step process. Apply first slurry coat at a rate so that mulch component is deposited at not less than **500-lb/acre (5.2-kg/92.9 sq. m)** dry weight, and seed component is deposited at not less than the specified seed-sowing rate. Apply slurry cover coat of fiber mulch (hydromulching) at a rate of **1000 lb/acre (10.4 kg/92.9 sq. m)**.

3.8 TURF MAINTENANCE

- A. Maintain and establish turf by watering, fertilizing, weeding, mowing, trimming, replanting, and performing other operations as required to establish healthy, viable turf. Roll, regrade, and replant bare or eroded areas and re-mulch to produce a uniformly smooth turf. Provide materials and installation the same as those used in the original installation.
 1. Fill in as necessary soil subsidence that may occur because of settling or other processes. Replace materials and turf damaged or lost in areas of subsidence.
 2. In areas where mulch has been disturbed by wind or maintenance operations, add new mulch and anchor as required to prevent displacement.
 3. Apply treatments as required to keep turf and soil free of pests and pathogens or disease. Use integrated pest management practices whenever possible to minimize the use of pesticides and reduce hazards.

- B. Watering: Install and maintain temporary piping, hoses, and turf-watering equipment to convey water from sources and to keep turf uniformly moist to a depth of **4 inches (100 mm)**.
 - 1. Schedule watering to prevent wilting, puddling, erosion, and displacement of seed or mulch. Lay out temporary watering system to avoid walking over muddy or newly planted areas.
 - 2. Water turf with fine spray at a minimum rate of **1 inch (25 mm)** per week unless rainfall precipitation is adequate.
- C. Mow turf as soon as top growth is tall enough to cut. Repeat mowing to maintain specified height without cutting more than 1/3 of grass height. Remove no more than 1/3 of grass-leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over and become matted. Do not mow when grass is wet. Schedule initial and subsequent mowing to maintain the following grass height:
 - 1. Mow to a height of **2 to 2 1/5 inches (50 to 63 mm)**.
- D. Turf Postfertilization: Apply fertilizer after initial mowing and when grass is dry.
 - 1. Use organic fertilizer that will provide actual nitrogen of at least **1 lb/1000 sq. ft. (0.45 kg/92.9 sq. m)** to turf area.

3.9 SATISFACTORY TURF

- A. Turf installations shall meet the following criteria as determined by Architect:
 - 1. Satisfactory Seeded Turf: At end of maintenance period, a healthy, uniform, close stand of grass has been established, free of weeds and surface irregularities, with coverage exceeding 90 percent over any **10 sq. ft. (0.92 sq. m)** and bare spots not exceeding **5 by 5 inches (125 by 125 mm)**.
- B. Use specified materials to reestablish turf that does not comply with requirements and continue maintenance until turf is satisfactory.

3.10 PESTICIDE APPLICATION

- A. Apply pesticides and other chemical products and biological control agents in accordance with requirements of authorities having jurisdiction and manufacturer's written recommendations. Coordinate applications with Owner's operations and others in proximity to the Work. Notify Owner before each application is performed.
- B. Post-Emergent Herbicides (Selective and Non-Selective): Apply only as necessary to treat already-germinated weeds and in accordance with manufacturer's written recommendations.

3.11 CLEANUP AND PROTECTION

- A. Promptly remove soil and debris created by turf work from paved areas. Clean wheels of vehicles before leaving site to avoid tracking soil onto roads, walks, or other paved areas.

- B. Erect temporary fencing or barricades and warning signs as required to protect newly planted areas from traffic. Maintain fencing and barricades throughout initial maintenance period and remove after plantings are established.
- C. Remove nondegradable erosion-control measures after grass establishment period.

END OF SECTION 32 9200

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SECTION 01 5000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes requirements for:
 - 1. Temporary utilities, support facilities, and security and protection facilities
 - 2. Sedimentation and Erosion Control
 - 3. [Traffic Maintenance and Control](#)
- B. Related Requirements:
 - 1. Division 01 Section "Summary" for work scope
 - 2. Division 02 Section Soil Erosion and Sedimentation Control
 - 3. Division 32 Section "Asphalt Paving" for construction and maintenance of asphalt pavement for temporary roads and paved areas.
 - 4. Division 32 Section "Concrete Paving" for construction of cement concrete pavement for temporary roads and paved areas.

1.3 USE CHARGES

- A. General: Installation and removal of and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost, including, but not limited to, Owner's construction forces, testing agencies, and authorities having jurisdiction.
- B. Water and Sewer Service from Existing System: Water from Owner's existing water system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.
- C. Electric Power Service from Existing System: Electric power from Owner's existing system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.

1.4 INFORMATIONAL SUBMITTALS

- A. Site Plan: Show temporary facilities, utility hookups, staging areas, and parking areas for construction personnel.

- B. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire-prevention program.
- C. Traffic Control Plan: Submit a traffic control plan that addresses locations of traffic barricades, pedestrian controls, warning signs to the Landscape Architect for review and acceptance in advance of beginning site operations.

1.5 QUALITY ASSURANCE

- A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
- B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.

1.6 PROJECT CONDITIONS

- A. Temporary Use of Permanent Facilities: Engage Installer of each permanent service to assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Portable Chain-Link Fencing: Minimum 2-inch (50-mm), 0.148-inch- (3.8-mm-) thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet (1.8 m) high with galvanized-steel pipe posts; minimum 2-3/8-inch- (60-mm-) OD line posts and 2-7/8-inch- (73-mm-) OD corner and pull posts, with 1-5/8-inch- (42-mm-) OD top and bottom rails. Provide concrete or galvanized-steel bases for supporting posts.
- B. Porous Pavement Ground Protection Materials:
 - 1. Marine grade 3/4" thick plywood 4'x8' sheets with 2" x 8" hardwood planks
 - 2. Mirafi 140N non woven filter fabric or approved equivalent
 - 3. Shredded hardwood bark
- C. Protection Board:
 - 1. Megadeck Ground Protection Matting
 - a. 7.5'L x 14'Wx 4" ht"
 - 2. Available at Signature Systems, Orlando Fl 972 684 5736
 - 3. Or approved Equivalent

2.2 TEMPORARY FACILITIES

- A. Field Offices, General: Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.
 - 1. Field Office on site is at the discretion of the Contractor.
 - 2. In lieu of a Field Office the Contractor may make arrangements with the Owner for regular project meetings to be housed in a nearby (walkable 5-10 Min) from the project site.
 - 3.
- B. Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.
 - 1. Store combustible materials apart from building(s).

2.3 EQUIPMENT

- A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
 - 1. Locate facilities to limit site disturbance as specified in Division 01 Section "Summary."
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.2 TEMPORARY UTILITY INSTALLATION

- A. General: Install temporary service or connect to existing service.
 - 1. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.
- B. Water Service: Install water service and distribution piping in sizes and pressures adequate for construction.
- C. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.

- D. Electric Power Service: Provide electric power service and distribution system of sufficient size, capacity, and power characteristics required for construction operations.
 - 1. Install electric power service overhead unless otherwise indicated.

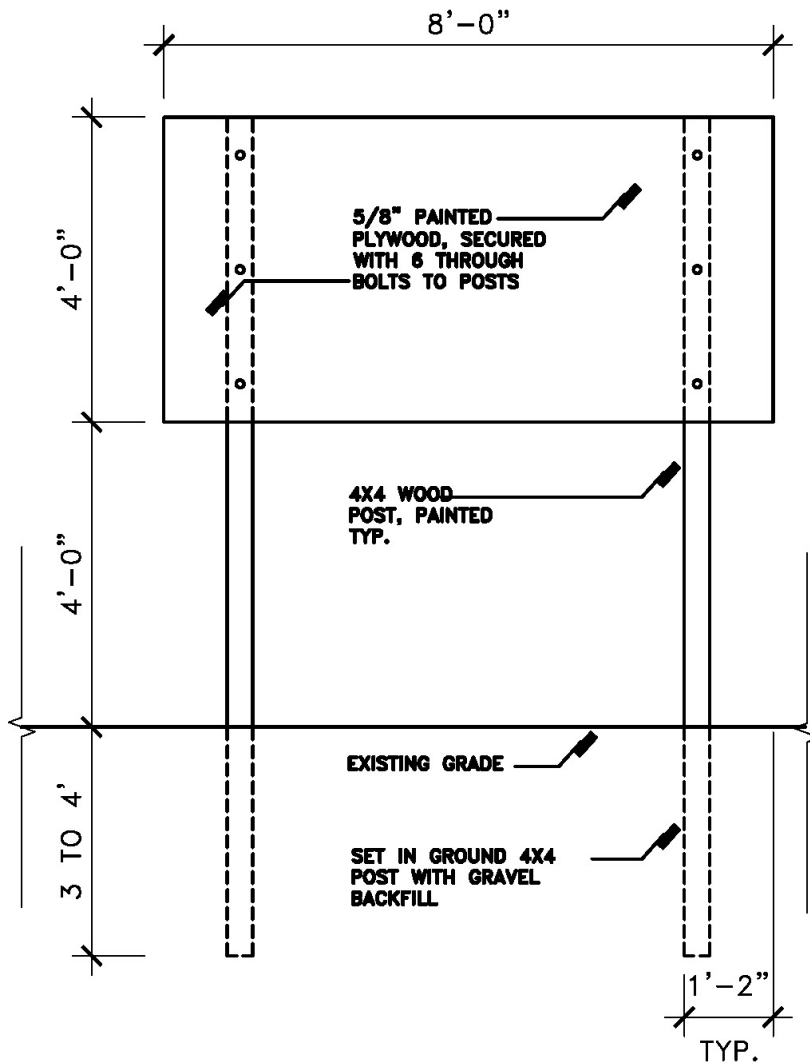
3.3 SUPPORT FACILITIES INSTALLATION

- A. Temporary Use of Permanent Roads, Paved Areas and Access Aprons: Existing roads and gravel service drives roads are to be protected from damage caused by equipment and machine access. The contractor is responsible for protection and care during construction and planting operations.
- B. Temporary Access: Protect existing soils to remain from compaction by equipment and machine operations for walk construction, road modifications and planting operations by use of protection board.
 - 1. Coordinate the location and placement of protection board with final planting and walk locations so as not to impede the schedule or accessibility for completion of either work operation. Review locations of protection board access with the Landscape Architect for acceptance in advance of board placement.
 - 2. Place protection board atop sub-soil only. Remove existing topsoil and subgrade in a location acceptable to the Landscape Architect on site for re-placement following removal of protection board and restoration of lawn areas.
 - 3. De-compact subgrade once protection board has been removed in advance of placing topsoil and re-seeding, Secure Landscape Architect's approval on sub-soil decompaction in advance of topsoil placement and lawn establishment.
- C. Parking: Parking areas for construction personnel.
 - 1. Parking for Contractor, Sub-Contractors, Labors etc. is available in the membership lot within designated parking spaces as directed by the Owner.
- D. Project Signs: Provide Project signs as required by the funding agency. Unauthorized signs are not permitted.
 - 1. Identification Signs: Provide Project identification signs as indicated in this specification section. Locate project sign on site, review location with Landscape Architect for approval, modify as requested.
 - 2. Signs must include the:
 - a. Property Owner, NYS Office Recreation, Parks and Historic Preservation
 - b. Client: Planting Fields Foundation
 - c. Landscape Architect:
 - d. A&E Project Team Members
 - 3. Maintain and touchup signs so they are legible at all times.
 - a. Sample sign as follows:



NOTES:

- SIGN TO BE PAINTED ON BOTH FRONT AND BACK.
- BACKGROUND AND LETTERING TO BE CONTRASTING COLORS. COLOR TO BE SELECTED BY OWNER'S REPRESENTATIVE.
- ABOVE GROUND PORTION OF POST TO BE PAINTED.
- LETTERING TO RANGE IN SIZE FROM LESS THAN 1 1/2 INCHES IN HEIGHT FOR SUPPORTING TEXT WITH 6 AND 4 INCH LETTERING FOR PRIMARY TEXT. STATE AND CITY SEALS (DIGITAL GRAPHIC) TO BE PROVIDED.
- CONTRACTOR TO SUBMIT GRAPHIC LAYOUT FOR REVIEW AND APPROVAL OF SIGN PRIOR TO SIGN FABRICATION
- SIGN LOCATION ON SITE TO BE APPROVED BY THE OWNER'S REPRESENTATIVE.



- E. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. Comply with progress cleaning requirements in Division 01 Section "Execution."
- F. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.
 - 1. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.
- G. Traffic Controls: Erect and maintain barricades, lights, danger signals, and warning signs in accordance with Manual on Uniform Traffic Control Devices (MUTCD), Part IV, 2009 edition.
 - 1. Protect existing site improvements to remain including curbs, pavement, and utilities.
 - 2. Maintain access for fire-fighting equipment and access to fire hydrants.
 - 3. Illuminate barricades and obstructions at night; keep safety lights burning from sunset to sunrise.
 - 4. Adequately barricade and post open cuts in or adjacent to thoroughfares.
 - 5. Protect pedestrian traffic by temporary fences and or barricades.
 - 6. Cover pipes, hoses, and power lines crossing sidewalks and walkways with troughs using beveled edge boards.
 - 7. Install Barrier Tape where directed by Landscape Architect. Keep a minimum of two rolls on site at all times

3.4 FACILITIES INSTALLATION

- A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.
- B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
 - 1. Comply with work restrictions specified in Division 01 Section "Summary."
- C. Temporary Erosion and Sedimentation Control: Provide measures to prevent soil erosion and discharge of soil-bearing water runoff and airborne dust to undisturbed areas and to adjacent properties and walkways, according to erosion- and sedimentation-control Drawings and requirements of 2003 EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent.
 - 1. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross tree- or plant- protection zones.
 - 2. Inspect, repair, and maintain erosion- and sedimentation-control measures during construction until permanent vegetation has been established.
 - 3. Clean, repair, and restore adjoining properties and roads affected by erosion and sedimentation from Project site during the course of Project.

4. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.
- D. Stormwater Control: Comply with requirements of authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.
 - E. Tree and Plant Protection: Install temporary fencing located as indicated or outside the drip line of trees to protect vegetation from damage from construction operations. Protect tree root systems from damage, flooding, and erosion.
 - F. Construction area Enclosure Fence: Before construction operations begin, furnish and install pedestrian fencing to enclose the work area in a manner that will prevent people and from easily entering work area except designated entrance locations.
 1. Extent of Fence: As required to enclose entire Project site or portion determined sufficient to accommodate construction operations.
 - a. Review location and extent of pedestrian fencing with Landscape Architect for approval, modify as requested.
 2. Maintain security by limiting number of accessible points.
 - G. Barricades and Warning Signs,: Comply with requirements of authorities having jurisdiction for erecting structurally adequate pedestrian barricades, including warning signs.
 - H. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241; manage fire-prevention program.

3.5 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
- B. Maintenance: Maintain facilities in good operating condition until removal.
- C. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
 1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.
 2. Remove temporary roads and paved areas not intended for or acceptable for integration into permanent construction. Where area is intended for landscape development, remove soil and aggregate fill that do not comply with requirements for fill or subsoil. Remove materials contaminated with road oil, asphalt and other petrochemical compounds, and other substances that might impair growth of plant materials or lawns. Repair or replace street paving, curbs, and sidewalks at temporary entrances, as required by authorities having jurisdiction.

3. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period. Comply with final cleaning requirements specified in Division 01 Section "Closeout Procedures."

END OF SECTION 01 5000



PLANTING FIELDS ARBORETUM ENTRY DRIVE: TREES, WALKS AND DRIVE REPAIR

1395 PLANTING FIELDS ROAD
OYSTER BAY, NEW YORK 11771

CONTRACT #: PFF 030623
PROJECT ID: PFF ENTRY 0306-2023
SUBMISSION: CONSTRUCTION BID SET

PLANTING FIELDS FOUNDATION

1395 PLANTING FIELDS ROAD
OYSTER BAY, NEW YORK 11771

CONSULTANTS:
HERITAGE LANDSCAPES LLC
PRESERVATION LANDSCAPE ARCHITECTS AND PLANNERS
34 WALL STREET, NORWALK, CONNECTICUT 06850
PO BOX 321, CHARLOTTE, VERMONT 05445
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LONG ISLAND CAPITAL DISTRICT

EXECUTIVE DEPUTY COMMISSIONER
TOM ALWORTH

DEPUTY COMMISSIONER, CAPITAL PROJECTS
JEFF MCDONALD, RLA

LONG ISLAND CAPITAL DISTRICT MANAGER
VESNA HADZIBABIC, PE, LEED AP BD+C

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PLANTING FIELDS FOUNDATION
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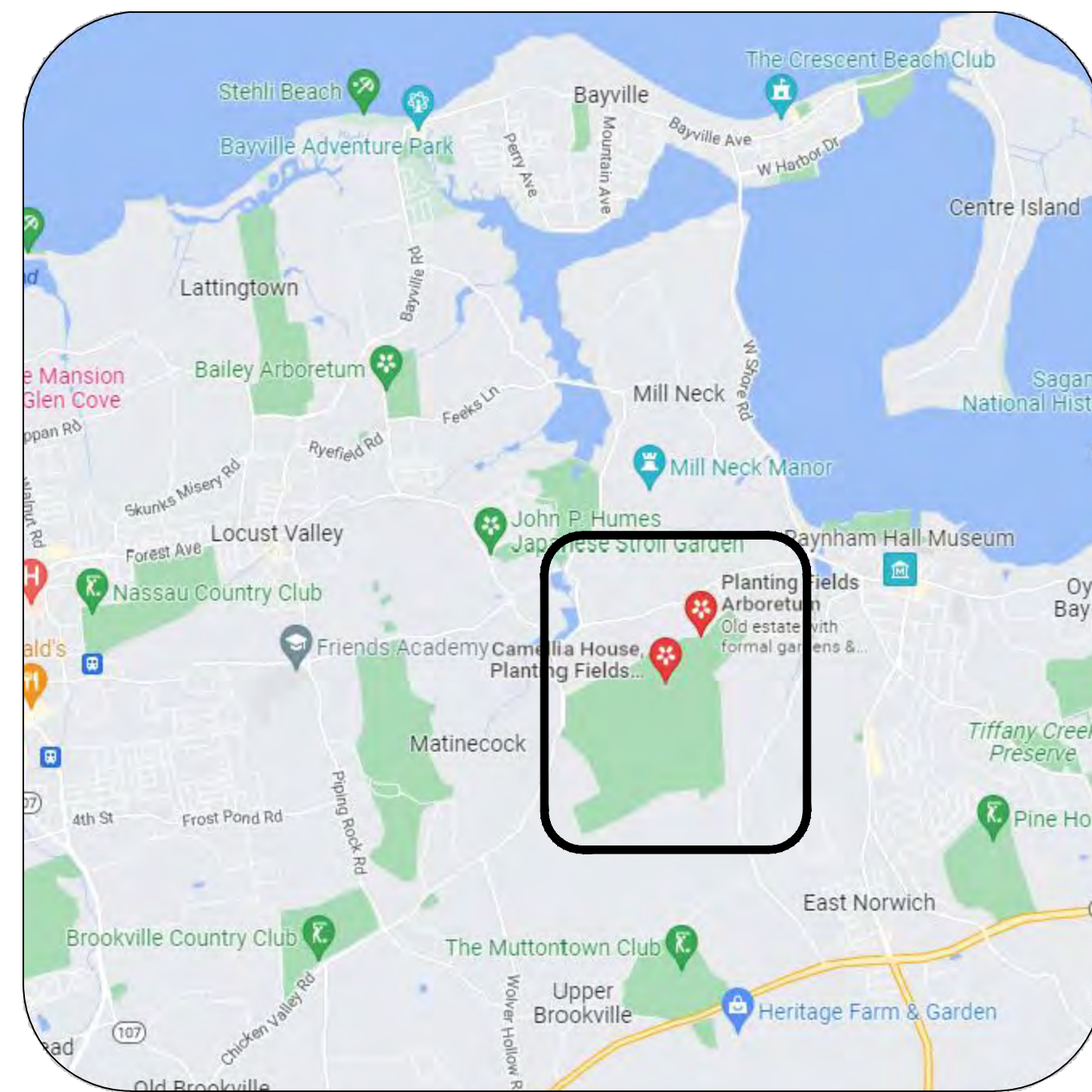
ENGINEER/ARCHITECT OF RECORD



PATRICIA O'DONNELL 10 MARCH 2023
NAME DATE:

Cpt
DATE: 10 MARCH 23

NAME
GINA WOUTERS
PRESIDENT/CEO
PLANTING FIELDS FOUNDATION



LOCATION PLAN
NOT TO SCALE



AERIAL PHOTO (2022)
NOT TO SCALE

REVISIONS		
Rev/No	Description	Date
1	Construction Bid Set	2/27/2023
2	Addendum #1	3/10/2023
3		
4		
5		
6		

Drawn By:
PV/CS

Design By:
PV

Checked By:
POD

Approved By:

Date:
10 Mar. 2023

Seal and Signature

Sheet Title:
GENERAL NOTES

Drawing Number:
G-001

LIST OF DRAWINGS

DRAWING INDEX

T-001 COVER SHEET
G-001 GENERAL NOTES
EC-1.0 EXISTING CONDITIONS
SE-1.1 SEDIMENTATION AND EROSION CONTROL PLAN
SE-1.2 SEDIMENTATION AND EROSION CONTROL PLAN
SE-1.3 SEDIMENTATION AND EROSION CONTROL DETAILS
R-1.1 DRIVE AND WALKS REMOVALS
R-1.2 DRIVE AND WALKS REMOVALS
R-1.3 DRIVE AND WALKS REMOVALS
R-1.4 REMOVALS AND PROTECTION DETAILS
L-1.1 DRIVE AND WALKS LAYOUT
L-1.2 DRIVE AND WALKS LAYOUT
L-1.3 DRIVE AND WALKS LAYOUT
L-2.1 LANDSCAPE DETAILS
L-2.2 LANDSCAPE DETAILS
L-2.3 LANDSCAPE DETAILS
L-3.1 TREE PLANTING PLAN
L-3.2 TREE PLANTING PLAN
L-3.3 TREE PLANTING PLAN

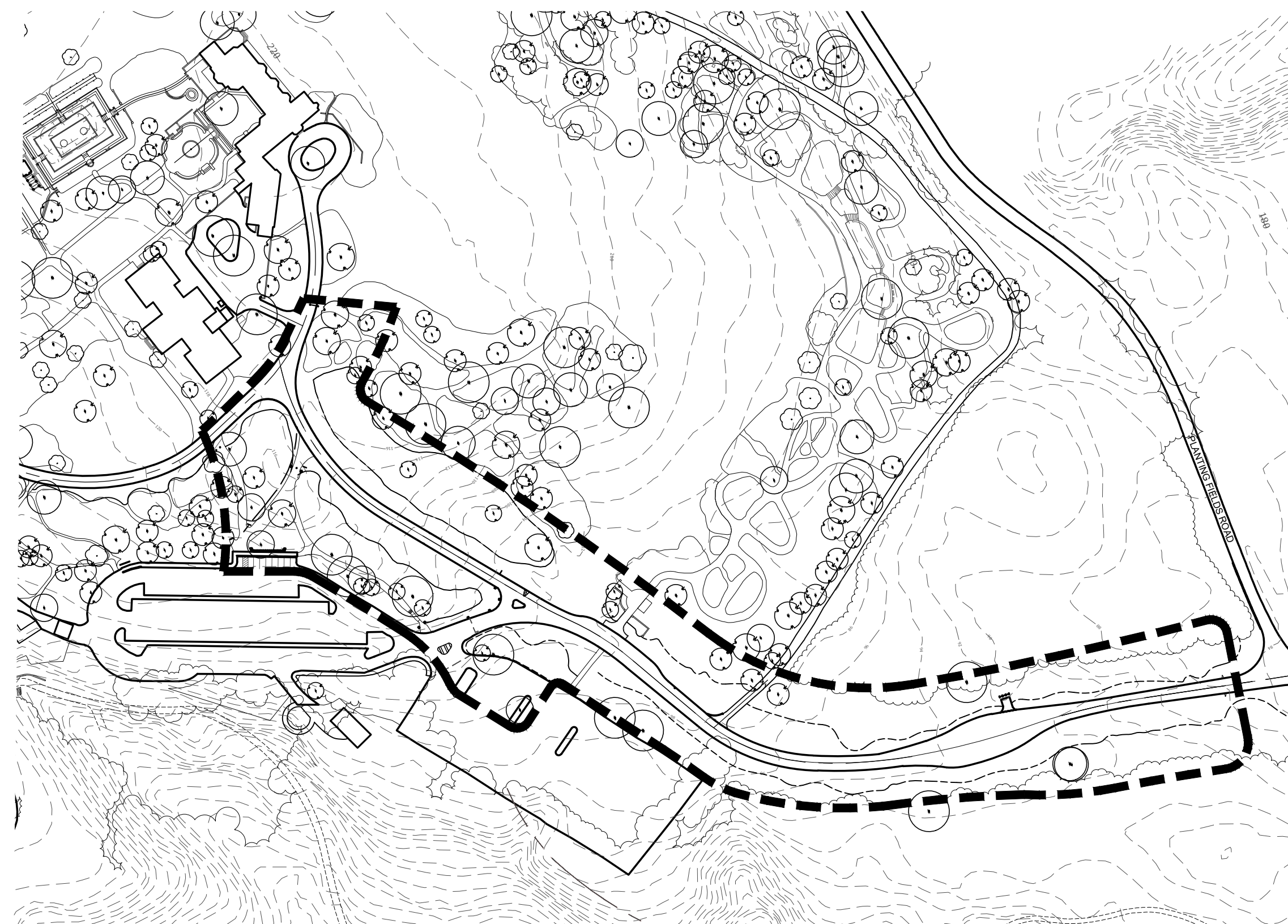
ABBREVIATIONS

LF	LINEAR FEET
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
NYS	NEW YORK STATE
OPRHP	OFFICE OF PARKS, RECREATION, AND HISTORIC PRESERVATION
RCA	RECYCLED CONCRETE AGGREGATE
TUON	TYPICAL UNLESS OTHERWISE NOTED
VF	VERIFY IN FIELD
PF	PLANTING FIELDS FOUNDATION

MATERIAL LEGEND

	EXT. DECIDUOUS TREE
	EXT. EVERGREEN TREE
	EXT. FLOWERING TREE
	TREE ALLEE
	REMOVE ASPHALT PAVING
	REMOVE GRAVEL PAVING/PATH
	REMOVE AND STOCKPILE COBBLESTONE CURB
	REMOVE CHAINLINK FENCE AND POST
	VEGETATION GRUBBING
	PROTECTION MATTING
	FULL DEPTH ASPHALT RECONSTRUCTION
	TURF REESTABLISHMENT
	EXT. BEDLINE
	EXT. CONTOUR
	FENCELINE
	SILT FENCE
	SILT SOCK
	TREE PROTECTION FENCING (SEE DETAIL 1/R.1.1)
	CONSTRUCTION FENCING
	EXTENT OF NO-MOW MIX

PLOT PLAN



PLOT PLAN
NOT TO SCALE

NYS OPRHP REVIEW AND PERMIT

PERMIT NUMBER: TO BE PROVIDED BY NYS

CONSTRUCTION NOTES

- THE CONTRACTOR SHALL COORDINATE ALL OPERATIONS WITH THE NYS PARKS REPRESENTATIVE. THIS SHALL INCLUDE BUT NOT BE LIMITED TO AREAS FOR MATERIAL STORAGE, ACCESS TO AND FROM WORK AREA, TIMING AND SEQUENCE OF WORK, SPECIAL CONSIDERATIONS OF NOISY, DUSTY, OR VAPORED OPERATIONS, AND/OR UTILITY INTERRUPTIONS.
- EXTREME CARE MUST BE TAKEN DURING ALTERATION AND NEW CONSTRUCTION SO AS NOT TO DAMAGE EXISTING INSTALLATIONS. IN CONNECTION TO OR ALTERING EXISTING STRUCTURE, THE CONTRACTOR SHALL SUPPLY BRACING, SHORING AND OTHER SUPPORTS FOR EXISTING MEMBERS AS REQUIRED TO ASSURE THEIR STRUCTURAL INTEGRITY & STABILITY. WHERE EXISTING FINISHES ARE BROKEN OR DAMAGED THEY SHALL BE RESTORED TO THEIR ORIGINAL STATE AFTER STRUCTURE IS IN PLACE.
- THE CONTRACTOR SHALL PROPERLY SHORE, UNDERPIN, SHEET, BRACE, AND MAKE SAFE ALL FLOORS, SIDEWALKS, WALLS, FOOTING, FOUNDATIONS, EARTH CUTS, AND ADJACENT PROPERTY AS THE JOB CONDITIONS WARRANT.
- THE CONTRACTOR SHALL MAKE NO DEVIATION FROM THE DRAWINGS WITHOUT WRITTEN APPROVAL OF THE NYS PARKS REPRESENTATIVE.
- ALL PAVED WALKS, SURFACES, AND AREAWAYS WILL BE DRAINED ADEQUATELY WITHIN THE SITE.
- ON SITE STORAGE OF ALL NEW CONSTRUCTION MATERIALS SHALL BE IN A DRY, SECURE LOCATION AS DIRECTED BY THE NYS PARKS REPRESENTATIVE.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY ENCLOSURES OR FACILITIES FOR THE PROTECTION OF NEW WORK WHEN DEEMED NECESSARY BY THE RESIDENT ENGINEER AND SHALL REMOVE TEMPORARY FACILITIES WHEN NO LONGER REQUIRED.
- THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS OF HIS WORK. UPON COMPLETION EACH WORK DAY, THE CONTRACTOR SHALL REMOVE ALL DEBRIS AND LEAVE THE AREA IN A "BROOM CLEAN" CONDITION.
- ALL REMOVED MATERIAL AND DEBRIS SHALL BE LEGALLY DISPOSED AWAY FROM THE PREMISES.
- AT THE CONCLUSION OF JOB, THE CONTRACTOR SHALL REMOVE CONSTRUCTION FENCE AND REPLACE ALL DAMAGED PAVING, LANDSCAPING, ETC. AT NO ADDITIONAL COST TO THE STATE.
- MOTOR VEHICLES AND MACHINERY SHALL NOT BE LEAKING OIL OR ANY OTHER FLUIDS.
- HERITAGE LANDSCAPES LLC IS THE ACTING OWNERS REPRESENTATIVE FOR THIS PROJECT WORK. REFERENCES TO ARCHITECT, NYS PARKS REPRESENTATIVE AND ENGINEER SHALL BE UNDERSTOOD AS THE LANDSCAPE ARCHITECT AS OWNER REPRESENTATIVE.

PROJECT SCOPE SUMMARY

PROJECT WORK INCLUDES:

- REMOVAL OF SELECTED TREES NEW WALKWAY CONSTRUCTION AND TREE PLANTING
- SELECTIVE REMOVAL OF ASPHALT PAVING TO ESTABLISH CONSISTENT DRIVE WIDTH
- CONSTRUCTION OF PEDESTRIAN WALKS ALONG THE WEST DRIVE PERIMETER AND AT THE EAST BETWEEN THE VISITOR PARKING LOT AND COE HALL ENTRANCE
- PLANTING OF AN OAK TREE ALLEE TO THE EAST AND WEST SIDE OF THE ENTRY DRIVE
- ESTABLISHMENT OF A NO-MOW TURF BELOW THE TREE ALLEE

GENERAL NOTES

- THE CONTRACTOR SHALL INSPECT EXISTING CONDITIONS AT JOB SITE BEFORE SUBMITTING BID. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CONDITIONS ON SITE WHETHER INDICATED ON DRAWINGS OR NOT.
- THE CONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE SECTIONS OF THE CURRENT NEW YORK STATE BUILDING CODES AND ALL OTHER APPLICABLE CODES, ORDINANCES, AND STANDARDS.
- THE CONTRACTOR SHALL SUPPLY ALL LABOR, TOOLS, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE WORK AS CALLED FOR ON THE DRAWINGS AND SPECIFICATIONS.
- ALL MATERIALS AND EQUIPMENT NOTED ON DRAWINGS ARE NEW UNLESS INDICATED AS EXISTING.
- OMISSIONS FROM THE DRAWINGS, SPECIFICATIONS, OR THE MISDESCRIPTION OF DETAILS OF WORK WHICH ARE MANIFESTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH WORK, BUT SHALL BE PERFORMED AS IF CORRECTLY SET FORTH AND DESCRIBED TO FURNISH A COMPLETE INSTALLATION IN ACCEPTABLE CONDITION TO THE AGENCY. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL TRADES AT THE SITE, WHETHER PART OF THIS CONTRACT OR UNDER A SEPARATE CONTRACT.
- ALL DIMENSIONS SHOWN ON DRAWINGS SHALL BE VERIFIED IN FIELD BEFORE WORK PROGRESSES. DO NOT SCALE DRAWING.
- ANY DISCREPANCIES NOTICED IN THE DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK, AND SHALL REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS TO THE NYS PARKS REPRESENTATIVE.
- A WALK-THROUGH OF THE SITE WITH THE CONTRACTOR AND THE NYS PARKS REPRESENTATIVE IN ATTENDANCE SHALL BE PERFORMED BEFORE ANY WORK COMMENCES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL CONDITIONS AND MATERIALS WITHIN THE PROPOSED CONSTRUCTION AREA. THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING AND BRACING FOR ALL STRUCTURAL OR REMOVAL TASKS. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURIES CAUSED BY OR DURING THE EXECUTION OF THE WORK.
- THE CONTRACTOR SHALL PROTECT ALL ADJACENT EXISTING ELEMENTS TO REMAIN.
- ALL REMOVALS, INCIDENTAL TO AND NECESSARY, SHALL BE DISPOSED OF PROPERLY OFF THE PROJECT SITE. REMOVE EXISTING FEATURES IN THEIR ENTIRETY UNLESS OTHERWISE INDICATED. DO NOT ALLOW DEBRIS TO ACCUMULATE ON SITE. PROMPTLY AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS AND TRASH OFF SITE. LITTER AND DEBRIS SHALL BE CLEANED UP FROM THE CONSTRUCTION SITE DAILY.
- HAZARDOUS MATERIALS MAY BE ENCOUNTERED DURING CONSTRUCTION OPERATIONS, INCLUDING ASBESTOS AND LEAD. COMPLY WITH ALL APPLICABLE REGULATIONS, LAWS, AND ORDINANCES CONCERNING THE REMOVAL, HANDLING, AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR WORK, FOR THE COORDINATION BETWEEN THEIR RESPECTIVE SUBCONTRACTORS AND THEIR PORTION OF WORK, AND ANY OF THE OWNER'S CONTRACTORS OR SUBCONTRACTORS.
- THE CONTRACTOR IS RESPONSIBLE FOR MARK-OUT OF EXISTING UTILITIES PRIOR TO EXCAVATION.
- ALL APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE DISTURBANCE, INCLUDING DEMOLITIONS, AND THEY SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED.
- ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL CONFORM TO THE LATEST EDITION OF THE NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. INSTALL AND MAINTAIN ALL MEASURES TO EFFECTIVELY CONTAIN ALL SOIL MATERIAL WITHIN THE PROJECT LIMITS.
- STOCKPILES SHALL BE PLACED WHERE EROSION AND SEDIMENTATION WILL NOT OCCUR.
- UTILIZE DUST CONTROL AS NEEDED AND AS DIRECTED BY THE NYS PARKS REPRESENTATIVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND CONTROL OF TRAFFIC IN CONFORMANCE WITH NYS MUTCD STANDARDS.
- ANY VEHICLES OR EQUIPMENT TRAVELLING OUTSIDE THE CONTRACT LIMIT LINE MUST NOT TRACK SEDIMENT OR OTHER MATERIALS, THIS MAY REQUIRE THE WASHING OFF OF VEHICLES AND EQUIPMENT.
- MOTOR VEHICLES AND MACHINERY SHALL NOT BE LEAKING OIL OR ANY OTHER FLUIDS.
- THE CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED UNDER THIS CONTRACT FOR A PERIOD OF ONE YEAR AFTER COMPLETION AND FINAL ACCEPTANCE BY THE OWNER UNLESS OTHERWISE INDICATED IN CONTRACT DOCUMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL INSPECTIONS AND FINAL APPROVALS FROM ALL GOVERNING AGENCIES, INCLUDING BUT NOT LIMITED TO THE CERTIFICATE OF OCCUPANCY AND PUBLIC ASSEMBLY PERMITS.
- RESTORE TO THEIR ORIGINAL CONDITION ALL EXISTING PHYSICAL FEATURES DAMAGED BY THE UNAUTHORIZED ACT OR OMISSION OF THE CONTRACTOR. ORIGINAL CONDITION SHALL MEAN THE CONDITION IN WHICH THE FEATURE WAS FOUND AT THE START OF WORK.

GENERAL DEMOLITION/
REMOVAL NOTES

- THE GENERAL CONTRACTOR MUST CONDUCT A PRE-CONSTRUCTION MEETING AND SITE WALK THROUGH WITH THE NYS PARKS REPRESENTATIVE AND OWNER PRIOR TO COMMENCEMENT OF ANY DEMOLITION OR REMOVAL OF MATERIALS UNLESS OTHERWISE NOTIFIED. ITEMS TO BE REMOVED AND SALVAGED OR DISCARDED SHALL BE IDENTIFIED.
- ALL SALVAGED MATERIALS, WHETHER RETAINED FOR REINSTALLATION OR REFERENCED DURING FABRICATION OF REPLACEMENTS, SHALL BE STORED AT A SECURE, DRY, AND WEATHER-PROTECTED FACILITY.
- REFER TO THE CONTRACT SPECIFICATIONS FOR ADDITIONAL DEMOLITION AND WASTE REQUIREMENTS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ADJACENT PROPERTY AND ANY ITEMS THAT MAY BE ADVERSELY EFFECTED BY THE DEMOLITION EQUIPMENT, DEBRIS, AND DUST.
- THE CONTRACTOR SHALL DEMOLISH AND REMOVE FROM PROJECT WORK AREA ALL ITEMS DESIGNATED IN THE CONTRACT DOCUMENTS AND AS DIRECTED BY THE NYS PARKS REPRESENTATIVE.
- DISPOSE OF DEMOLITION MATERIAL IN A MANNER APPROVED BY NYS CODES AND PARKS MANAGEMENT IMMEDIATELY FOLLOWING DEMOLITION UNLESS OTHERWISE INSTRUCTED BY ARCHITECT.
- ALL MATERIALS NOTED FOR DEMOLITION BECOME PROPERTY OF THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE. WHERE SUITABLE, REUSE MATERIALS WITH NYS PARKS REPRESENTATIVE'S PERMISSION.
- ALL AREAS INDICATED FOR REMOVALS WITH ADJACENT SURFACES TO REMAIN SHALL BE "NEAT CUT".
- ALL APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE DISTURBANCE, AND SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED.

EXECUTIVE DEPUTY COMMISSIONER
TOM ALWORTH
DEPUTY COMMISSIONER, CAPITAL PROJECTS
JEFF McDONALD, RLA

LONG ISLAND DISTRICT
635 Belmont Ave.
West Babylon, NY 11702

LONG ISLAND CAPITAL DISTRICT MANAGER
VESNA HADZIBABIC, PE, LEED AP BD+C

LONG ISLAND REGIONAL DIRECTOR
GEORGE GORMAN, JR.

PARK MANAGER
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VINCENT.SIMEONE@PARKS.NY.GOV

FOUNDATION/FRIENDS GROUP
PLANTING FIELDS FOUNDATION
GINA WOUTERS - PRESIDENT AND CEO
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CONSULTANTS:
HERITAGE LANDSCAPES LLC
PRESERVATION LANDSCAPE ARCHITECTS AND PLANNERS
PO BOX 321, CHARLOTTE, VERMONT 05415
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Contract No: PFF 030623

Project Title:
Planting Fields Entry Drive Trees, Walks and Drive Repair

Project Location:
Planting Fields Arboretum
1395 Planting Fields Road
Oyster Bay, New York 11771

REVISIONS

Rev No	Description	Date
1	Construction Bid Set	2/27/2023
2	Addendum #1	3/10/2023
3		
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Drawn By:
PV/CS

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PV

Checked By:
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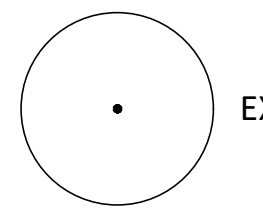
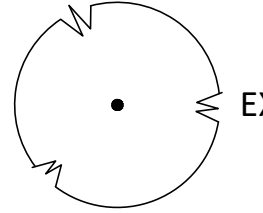
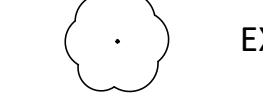
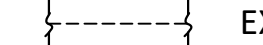

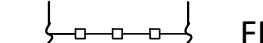



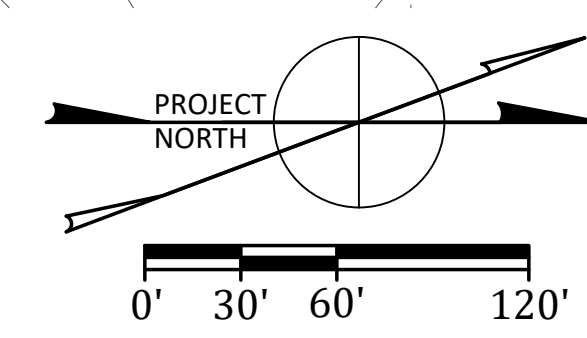
Date:
10 Mar. 2023

Sheet Title:
EXISTING CONDITIONS PLAN

Drawing Number:

EC-1.1

- KEY**
-  EXT. DECIDUOUS TREE
 -  EXT. EVERGREEN TREE
 -  EXT. FLOWERING TREE
 -  EXT. BEDLINE
 -  EXT. CONTOUR
 -  FENCELINE
 -  PROJECT AREA



SOURCES
FLONHS, July 1918 Field Notes,
File: 06645-17_34350123045_o

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Contract No: PFF 030623

Project Title:
Planting Fields Entry Drive Trees, Walks
and Drive Repair

Project Location:
Planting Fields Arboretum
1395 Planting Fields Road
Oyster Bay, New York 11771

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PV

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10 Mar. 2023

Sheet Title:

SEDIMENT AND EROSION
CONTROL PLAN

Drawing Number:

SE-1.1

Project Number:
PFF ENTRY 0306-2023

Sheet:
4 OF 19

SEDIMENTATION CONTROL NOTES:

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW YORK STATE, AND WILL BE IN PLACE PRIOR TO ANY SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

2. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTIONS IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.

3. ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.

4. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE EXCAVATED STOCKPILED MATERIAL FROM WALK WORK, IN THE AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.

5. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.

6. AREAS WHICH ARE TO BE TOP-SOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF FOUR INCHES PRIOR TO PLACEMENT OF SOIL.

7. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDING, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH STATE REQUIREMENTS OR CODES.

8. ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.

9. EXCEPT FOR APPROVED LANDFILLS, FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD OR OTHER FOREIGN OR OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.

10. FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED IN FILLS.

11. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.

12. ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.

13. SEEPS OR SPRING ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATIONS FOR SUBSURFACE DRAIN OR OTHER APPROVE METHOD.

14. ALL GRADED AREA SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISH GRADING

15. STOCKPILES, BORROW AREA AND SPILL AREAS SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO PROVISION OF THIS STANDARD SPECIFICATION.

16. ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING WITH STERILE ANNUAL RYE. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREA WILL BE MULCHED WITH STRAW OR HAY AND TACKED IN.

17. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS (STEEP SLOPES, SANDY SOILS, WET CONDITIONS) SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN ACCORDANCE WITH NOTES HEREIN

18. PERMANENT SEEDING AND STABILIZATION TO BE IN ACCORDANCE WITH THE "STANDARDS FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION COVER". SPECIFIED RATES AND LOCATIONS SHALL BE ON THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN.

19. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SO THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.

20. ALL SEDIMENTATION STRUCTURES (SILT FENCE, INLET FILTERS, AND SEDIMENT BASINS) WILL BE INSPECTED AND MAINTAINED DAILY.

21. STOCKPILES SHALL NOT BE LOCATED WITHIN 50' OF A FLOODPLAIN, SLOPE, DRAINAGE FACILITY, OR ROADWAY. ALL STOCKPILE BASES ON PAVEMENT SHALL HAVE A SILT FENCE OR SEDIMENT SOCK AROUND THEM.

22. A STABILIZED CONSTRUCTION ACCESS WILL BE INSTALLED, WHENEVER AN EARTHEN ROAD INTERSECTS WITH A PAVED ROAD. SEE THE STABILIZED CONSTRUCTION ACCESS DETAIL AND CHART FOR DIMENSIONS.

23. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.

24. BEFORE DISCHARGE POINTS BECOME OPERATIONAL, ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED AS REQUIRED.

25. ALL SEDIMENT BASINS WILL BE CLEANED WHEN THE CAPACITY HAS BEEN REDUCED BY 50%. A CLEAN OUT ELEVATION WILL BE IDENTIFIED ON THE PLAN AND A MARKER INSTALLED ON THE SITE.

26. DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND UPKEEP OF THE DRAINAGE STRUCTURES, VEGETATION COVER, AND ANY OTHER MEASURES IMPLEMENTED IN ACCORDANCE WITH THE SEDIMENTATION AND EROSION CONTROL PLAN.

27. ALL TREES OUTSIDE THE DISTURBANCE LIMIT INDICATED ON THE SUBJECT PLAN OR THOSE TREES WITHIN THE DISTURBANCE AREA WHICH ARE DESIGNATED TO REMAIN AFTER CONSTRUCTION ARE TO BE PROTECTED WITH TREE PROTECTION DEVICES. SEE THE TREE PROTECTION DETAIL ON THE LANDSCAPE REMOVALS AND PROTECTION DRAWINGS.

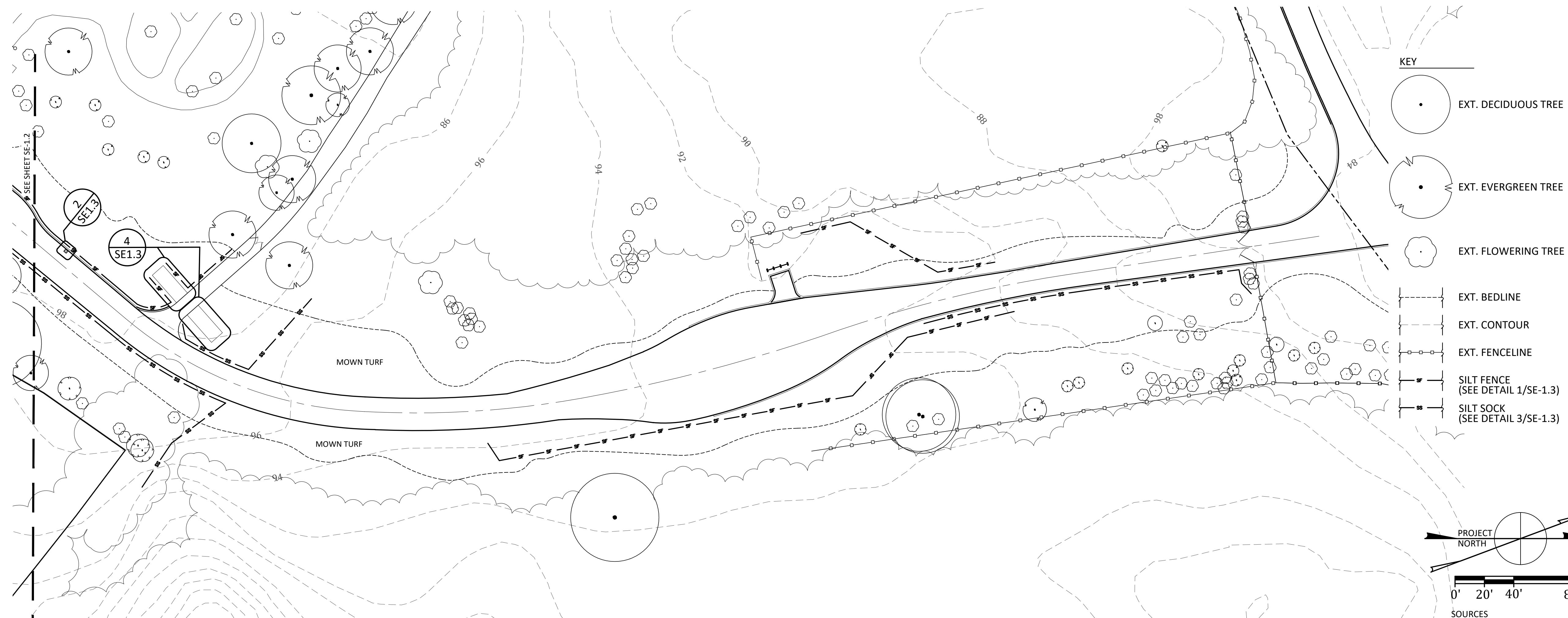
28. THE STATE MAY REQUEST ADDITIONAL MEASURES TO MINIMIZE ON SITE OR OFF SITE EROSION PROBLEMS DURING CONSTRUCTION. REQUESTED MEASURES SHALL BE COMPLIED WITH BY THE CONTRACTOR.

29. TOPSOIL STOCKPILE PROTECTION
A) APPLY GROUND LIMESTONE AT A RATE OF 90 LBS. PER 1000 SQ. FT.
B) APPLY FERTILIZER (10-20-10) AT A RATE 11 LBS. PER 1000 SQ. FT.
C) APPLY STERILE ANNUAL RYE AT 1 LB PER 1000 SQ. FT.
D) MULCH STOCKPILE WITH STRAW OR HAY AT A RATE OF 90 LBS. PER 1000 SQ. FT.
E) APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH

30. TEMPORARY STABILIZATION SPECIFICATIONS.
A) APPLY GROUND LIMESTONE AT A RATE OF 90 LBS. PER 1000 SQ. FT.
B) APPLY FERTILIZER (10-20-10) AT A RATE 11 LBS. PER 1000 SQ. FT.
C) APPLY STERILE ANNUAL RYE AT 1 LB. PER 1000 SQ. FT.

31. PERMANENT STABILIZATION SPECIFICATIONS
A) APPLY TOPSOIL TO A MIN. DEPTH OF 6 INCHES TO FINAL GRADE
B) APPLY GROUND LIMESTONE AT A RATE OF 90 LBS. PER 1000 SQ. FT. AND WORK FOUR INCHES INTO SOIL
C) SHAPE GRADE AS DIRECTED BY LANDSCAPE ARCHITECT.
D) SED FINISH GRADE AFTER APPROVAL BY LANDSCAPE ARCHITECT.
E) APPLY SPECIFIED TURF SEED AT REQUIRED RATES.
F) APPLY LIQUID BINDER TAKIFIER TO SEEDED AREA.

*NOTE: NO WORK SHALL BEGIN UNTIL SOIL SEDIMENTATION AND EROSION CONTROL MEASURES ARE IN PLACE AND REVIEWED BY THE LANDSCAPE ARCHITECT. ALL SUCH MEASURES MUST REMAIN IN ORDER THROUGHOUT THE CONSTRUCTION WORK.



REVISIONS

Rev No	Description	Date
1	Construction Bid Set	2/27/2023
2	Addendum #1	3/10/2023
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PV/CS

Design By:

PV

Checked By:

POD

Approved By:

Date:

10 Mar. 2023

Seal and Signature

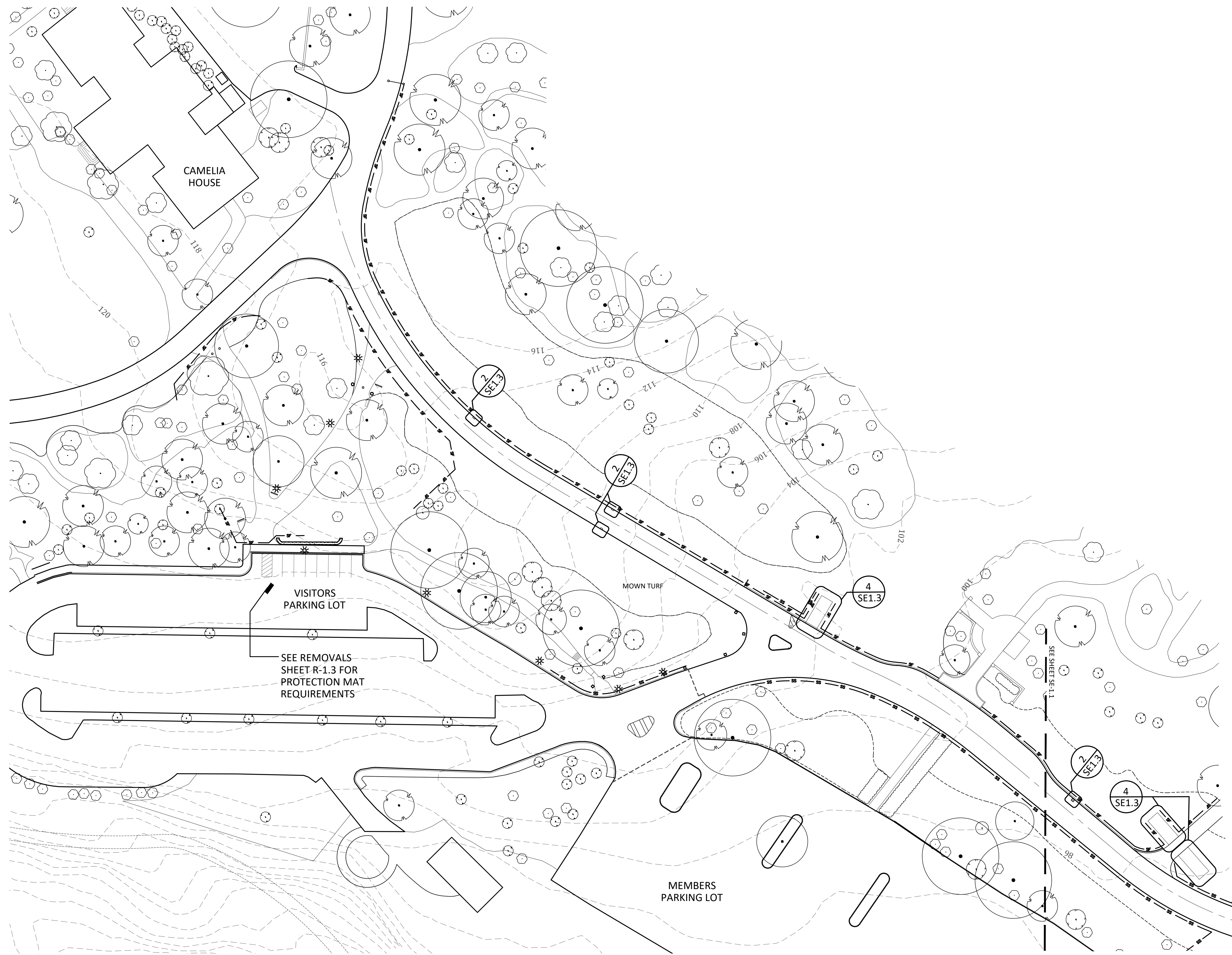


Sheet Title:

**SEDIMENT AND EROSION
CONTROL PLAN**

Drawing Number:

SE-1.2



KEY

- EXT. DECIDUOUS TREE
- EXT. EVERGREEN TREE
- EXT. FLOWERING TREE
- EXT. BEDLINE
- EXT. CONTOUR
- EXT. FENCELINE
- SILT FENCE (SEE DETAIL 1/SE-1.3)
- SILT SOCK (SEE DETAIL 3/SE-1.3)

PROJECT NORTH

0' 20' 40' 80'

SOURCES
FLOHNS, July 1918 Field Notes,
File: 06645-17_34350123045_o

VISITORS PARKING LOT

SEE REMOVALS
SHEET R-1.3 FOR
PROTECTION MAT
REQUIREMENTS

MOWN TURF

MEMBERS
PARKING LOT

CAMELIA
HOUSE

2
SE1.3

2
SE1.3

4
SE1.3

2
SE1.3

4
SE1.3

SEE SHEET SE-1.1

118

120

116

911

114

112

110

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102

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Sheet Title:

SEDIMENTATION AND EROSION CONTROL DETAILS

Drawing Number:

SE-1.3

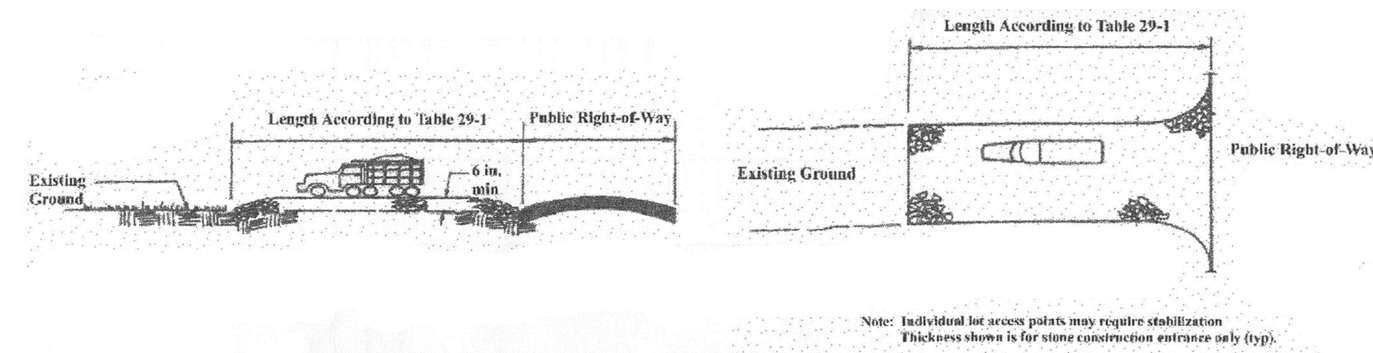


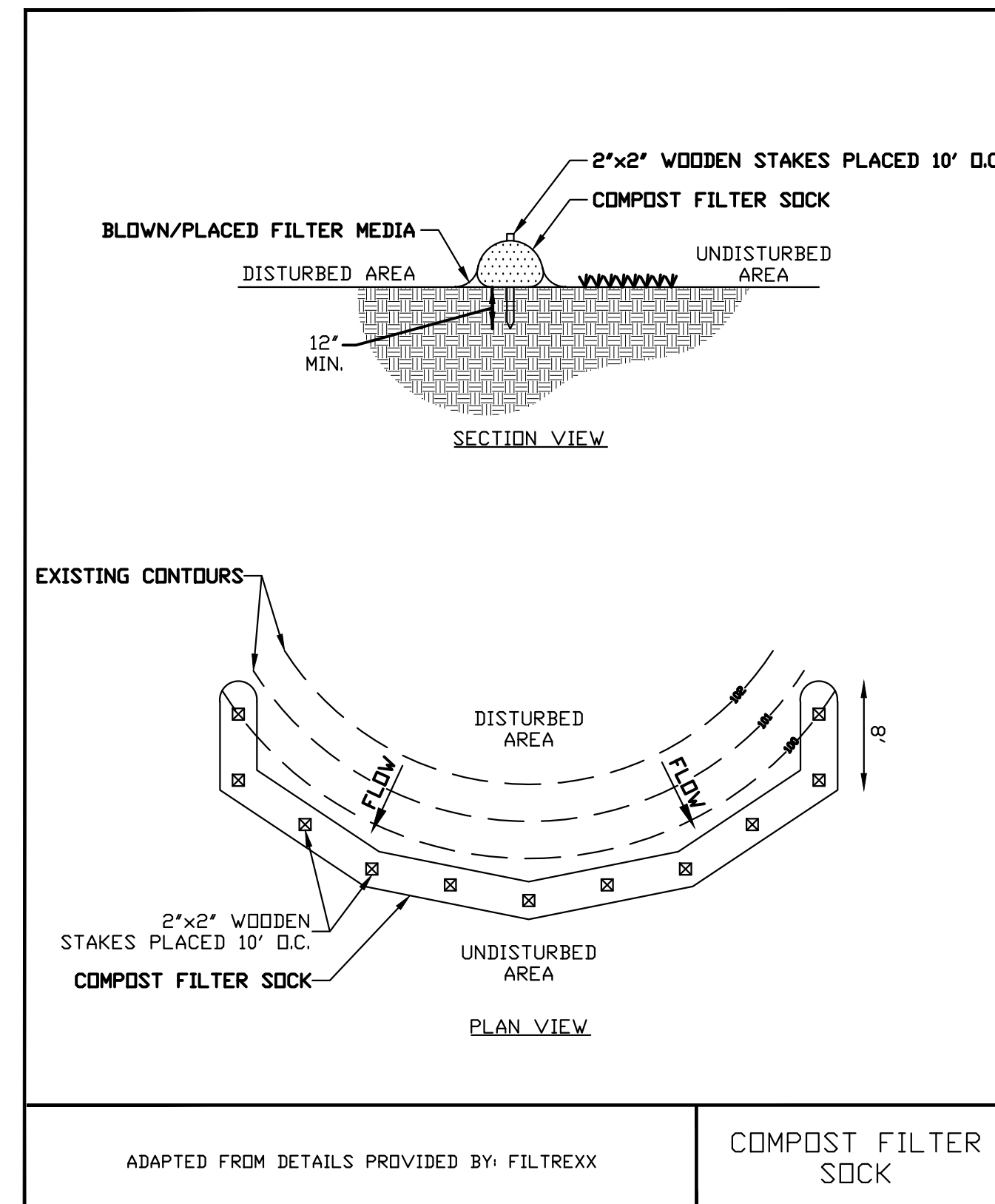
Table 29-1: Lengths of Construction Exits on Sloping Roadbeds

Percent Slope of Roadway	Length of Stone Required	
	Coarse Grained Soils	Fine Grained Soils
0 to 2%	50 ft	100 ft
2 to 5%	100 ft	200 ft
>5%	Entire surface stabilized with FABC base course ¹	

1. As prescribed by local ordinance or other governing authority.

NOTE:
STONE FOR APRON TO BE ±2 1/2" DIA. STONE FOR APRON TO BE REMOVED, SOIL DECOMPACTED AND REPAIRED AND RE-SEEDED FOLLOWING CONSTRUCTION OPERATIONS.

4 ANTI-TRACKING GRAVEL APRON
SE1.3 SCALE - NTS



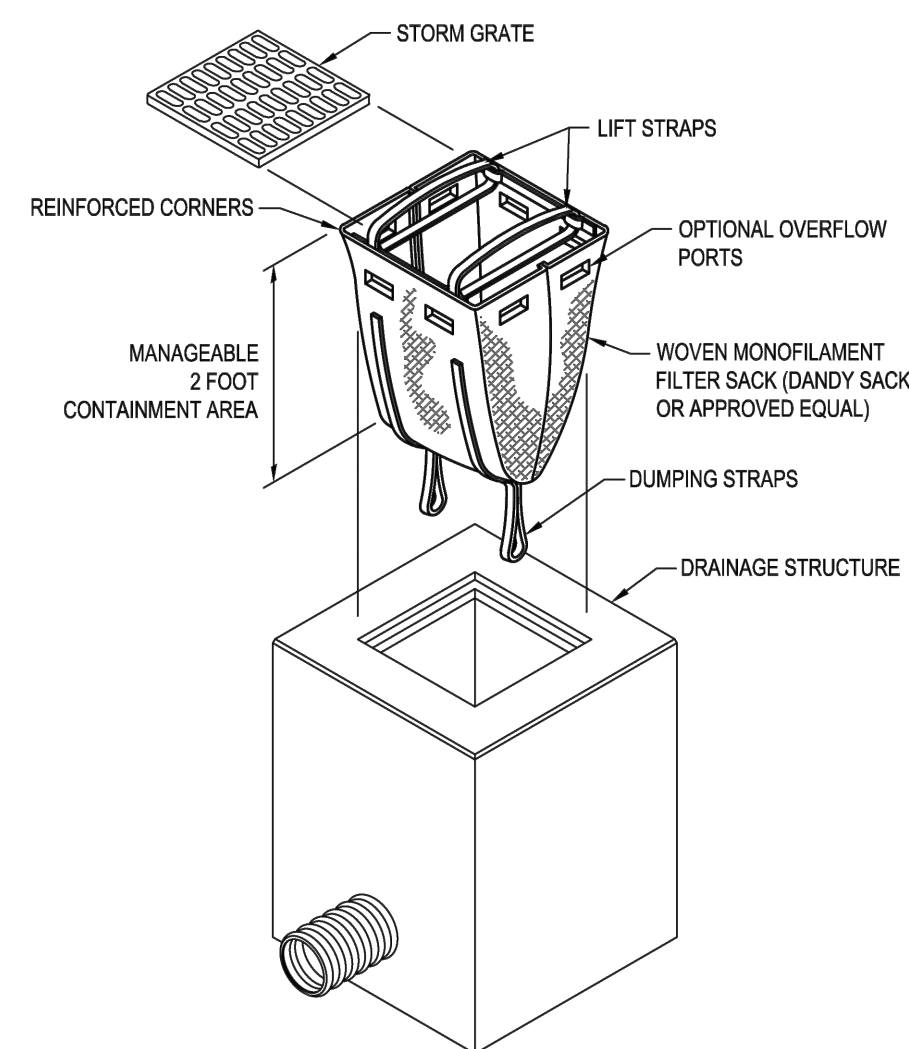
ADAPTED FROM DETAILS PROVIDED BY: FILTREXX

COMPOST FILTER SOCK

CONSTRUCTION SPECIFICATIONS

- BEFORE INSTALLING, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLODS, AND DEBRIS GREATER THAN 1-INCH THAT MAY INTERFERE WITH PROPER FUNCTION OF THE FILTER SOCK.
- FILL SOCK UNIFORMLY WITH COMPOST OR ALTERNATE FILTER MEDIA TO DESIRED LENGTH, WITH ENOUGH MATERIAL THAT THE SOCKS DO NOT DEFORM.
- PLACE SOCKS ALONG CONTOURS, WITH THE ENDS TURNED UPSLOPE AT 30 TO 45 DEGREES FOR A LENGTH OF AT LEAST 5 FEET TO PREVENT RUNOFF BYPASS.
- FOR UNTRENCHED INSTALLATION, BACKFILL MULCH OR COMPOST ON THE UPSTREAM SIDE OF THE SOCK AND TAMP TO PREVENT UNDERCUTTING AND PIPING.
- ANCHORING MUST CONFORM TO THE FOLLOWING LIST: (a) MINIMUM 2-INCH SQUARE CROSS SECTION HARDWOOD; (b) DRIVEN AT LEAST 12 INCHES BELOW GRADE, OR 8 INCHES IF IN DENSE CLAY SOILS; (c) PROTRUDE ABOVE FILTER SOCKS AT LEAST 3 INCHES; (d) DRIVEN IN AT 45-DEGREE ANGLE UPSLOPE; (e) SPACED AT NO MORE THAN 4 FEET APART, OR 8 FEET APART IF THE FILTER SOCK IS ENTRENCHED 4 INCHES INTO THE GROUND.
- DO NOT USE ENTRENCHED INSTALLATION ON FILTER SOCKS SMALLER THAN 12 INCHES IN DIAMETER.
- FOR HARD SURFACE INSTALLATION, SUCH AS ON PAVEMENT, ANCHORING MAY BE NECESSARY WHERE STRAIGHT SECTIONS EXCEED 4 FEET. SEE DETAIL ABOVE, AND GREATER INSTRUCTION IN THE FILTER SOCK SPECIFICATION. WHEN NO ANCHORING IS USED, THE PRACTICE MUST BE CHECKED DAILY, REGARDLESS OF WHETHER RAINFALL OCCURS. ANCHORED INSTALLATION IS ALWAYS PREFERRED TO NON-ANCHORED INSTALLATION, IF POSSIBLE.
- FOR AT-GRADE INLET 0" PROTECTION, FILTER SOCKS MUST COMPLETELY ENCLOSE THE DRAIN. IF USED AS CURB INLET PROTECTION, THE EFFECTIVE HEIGHT OF THE FILTER SOCK MUST NOT BE HIGHER THAN THE HEIGHT OF THE CURB; USE 8-INCH DIAMETER FILTER SOCK FOR STANDARD HIGHWAY APPLICATIONS.
- IF MULTIPLE SECTIONS OF FILTER SOCK ARE NEEDED FOR A CONTINUOUS RUN, OVERLAP ENDS OF SEPARATE SECTIONS A MINIMUM OF 2 FEET AND STAKE ENDS.
- TO REACH TALLER HEIGHTS, IT IS POSSIBLE TO STACK FILTER SOCKS. SEE SPECIFICATION FOR MORE DETAIL.
- REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO A DEPTH OF HALF THE EXPOSED HEIGHT OF SOCK AND REPLACE SOCK. REPLACE FILTER SOCK IF TORN. REINSTALL FILTER SOCK IF UNDERMINING OR DISLODGING OCCURS. REPLACE CLOGGED FILTER SOCKS.
- FOR VEGETATED, PERMANENT OR SEMI-PERMANENT INSTALLATIONS, MAINTAIN THE PLANTS AS IS APPROPRIATE FOR THE SPECIES USED.

NOTE: CONTRACTOR TO SUBMIT FILTER SOCK INLET PROTECTION MEASURES FOR THE TWO INLET TYPES ON SITE FOR APPROVAL AND ACCEPTANCE



NOTE:
EXISTING AND NEWLY INSTALLED CATCH BASINS WITHIN THE DISTURBED TRIBUTARY AREA TO BE PROTECTED UNTIL THE SITE IS STABILIZED.

FILTER SACK INLET PROTECTION

2 CATCH BASIN PROTECTION
SE1.3 SCALE - NTS

3 SILT SOCK
SE1.3 SCALE - NTS

1 SILT FENCE
SE1.3 SCALE - NTS

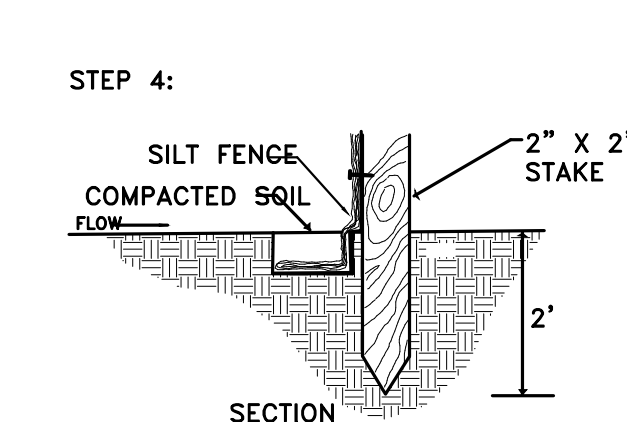
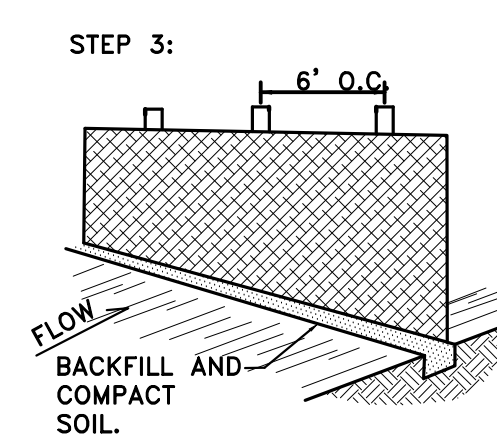
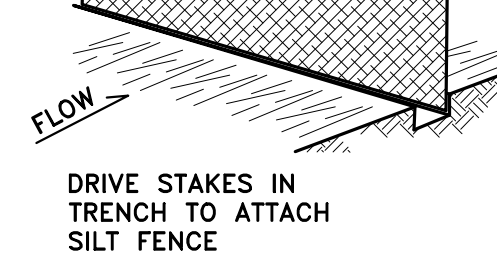
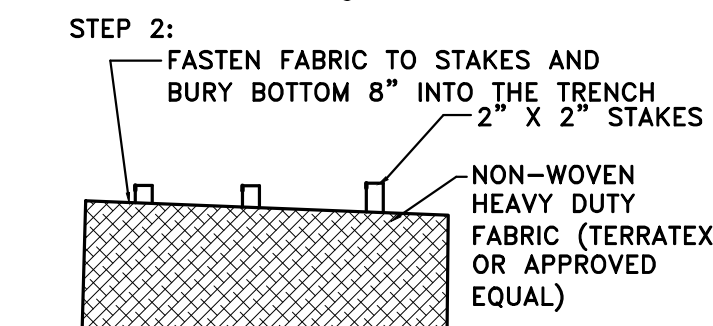
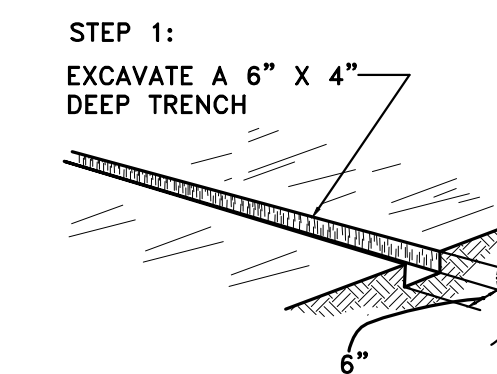
REQUIREMENTS FOR SILT FENCE:

- FENCE POSTS SHALL BE SPACED 8 FT. CENTER-TO-CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FT. INTO THE GROUND AND AT LEAST 2 FT. ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD WITH A MINIMUM DIAMETER THICKNESS OF 1-1/2 IN.
- A METAL FENCE WITH 6 IN. OR SMALLER OPENINGS AND AT LEAST 2 FT. HIGH MAY BE UTILIZED, FASTENED TO THE FENCE POSTS, TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT LOADING IS EXPECTED.
- A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FABRIC SHALL EXTEND AT LEAST 2 FT. ABOVE THE GROUND. THE FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OF STAPLES) AND A HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GROMMETS, WASHERS, ETC.) PLACED BETWEEN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAWSTRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.

4. SELECTION OF SILT FENCE OR COMPOST FILTER SOCK WILL BE MADE BY AREA AND APPROVED BY THE LANDSCAPE ARCHITECT.

- MAINTENANCE**
- INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.
 - IF FENCE FABRIC TEARS, TARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
 - REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.
 - TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT.
 - AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.

NOTE: WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED



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Seal and Signature



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10 Mar. 2023

Sheet Title:

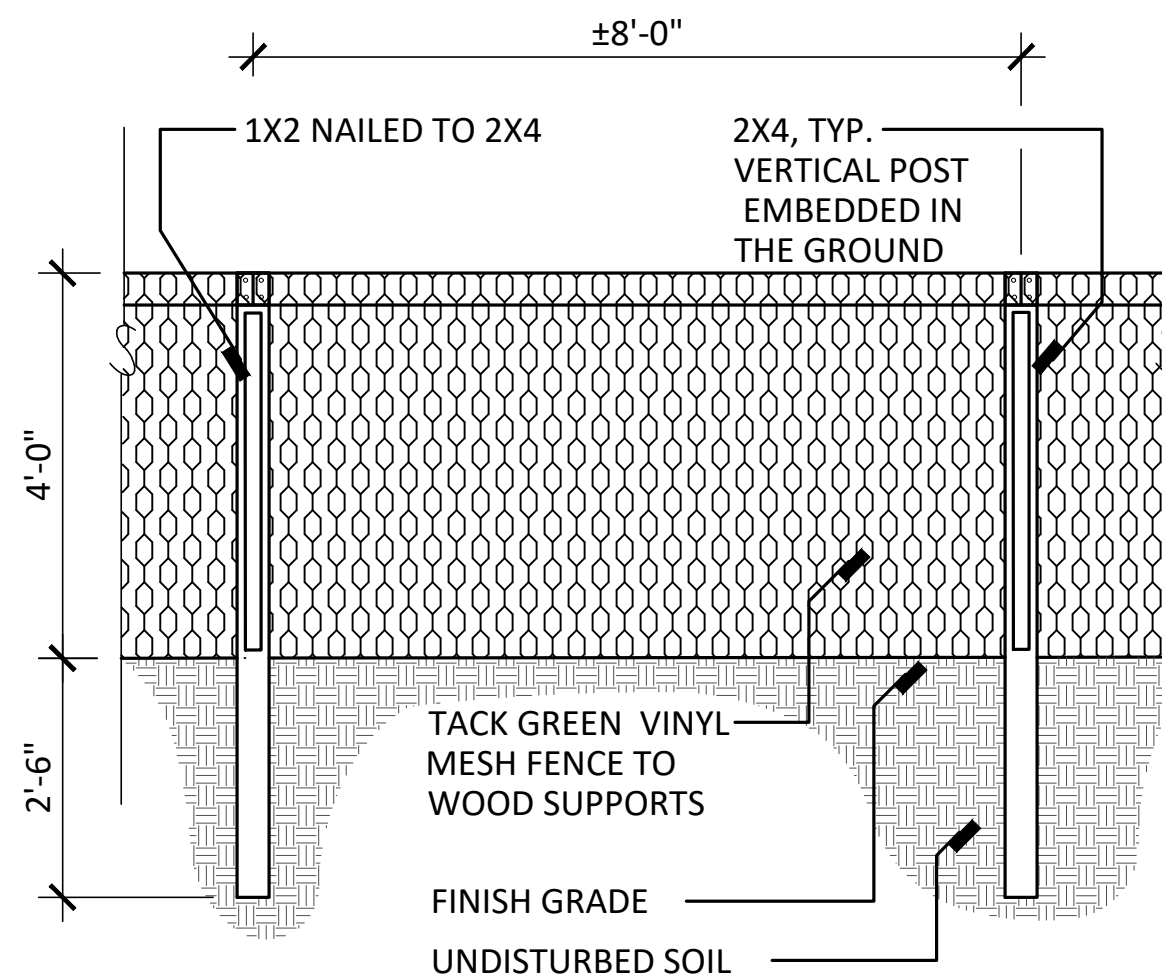
DRIVE AND WALK REMOVALS

Drawing Number:

R-1.1

GENERAL REMOVAL NOTES:

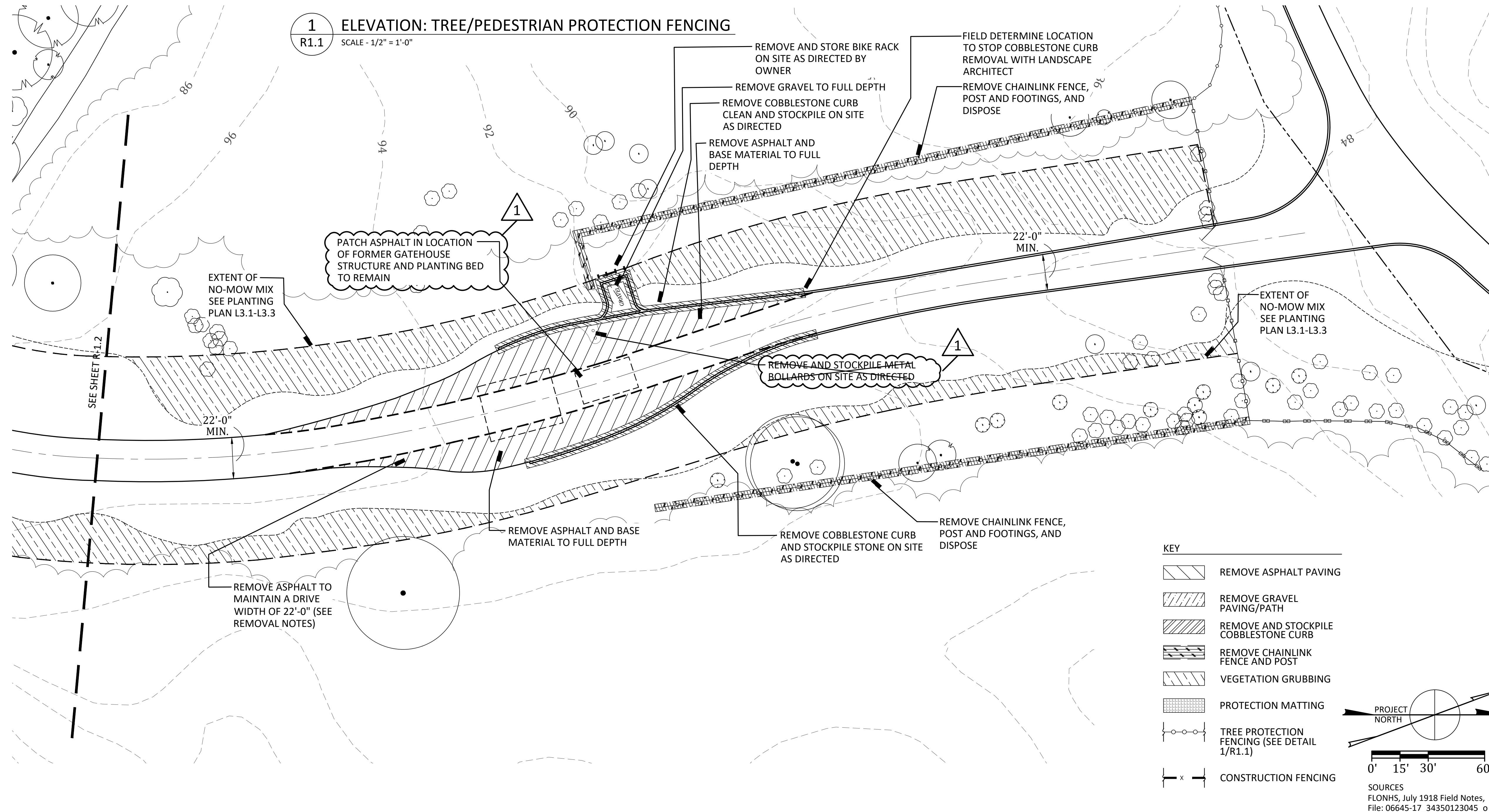
1. THE CONTRACTOR IS TO BECOME FAMILIAR WITH ALL SITE CONDITIONS THAT ARE AFFECTED BY THIS WORK. FIELD VERIFY ALL QUANTITIES AND AREAS FOR ASPHALT REMOVAL.
2. SEDIMENTATION AND EROSION CONTROL MEASURES ARE TO BE IN PLACE IN ADVANCE OF ANY DEMOLITION, REMOVALS OR EARTH WORKING OPERATIONS.
3. REMOVAL OF ASPHALT SHALL INCLUDE THE FULL REMOVAL OF SUB-BASE MATERIALS UNLESS OTHERWISE INDICATED ON THE DETAILS AND AS DIRECTED BY THE LANDSCAPE ARCHITECT.
4. THE FINISH TRAVEL WIDTH OF DRIVE WITHIN THE WORK SCOPE AREA IS TO MATCH ADJACENT WIDTHS UNLESS OTHERWISE DIRECTED ON SITE BY THE LANDSCAPE ARCHITECT AND SHALL NOT BE LESS THAN (22) TWENTY TWO FEET UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT.
5. PROVIDE ONE LANE OF CONTINUOUS ACCESS AND TRAFFIC CONTROL DURING REMOVALS AND CONSTRUCTION OPERATIONS.
6. ASPHALT IS TO BE REMOVED BY CUTTING OF A CLEAN SAW CUT JOINT/EDGE.
7. ITEMS INDICATED TO BE REMOVED AND STORED ARE TO BE CAREFULLY REMOVED AND STORED IN A MANNER THAT DOES NOT DAMAGE THE INTEGRITY, STRUCTURE OR FINISH OF THE ITEMS. THESE ITEMS BELONG TO THE OWNER AND SHALL BE REUSED IN EITHER THIS CONTRACT OR FUTURE WORK. THEY SHALL BE STORED ABOVE GROUND ON PALLETS OR BY OTHER SUITABLE MEANS AS AGREED TO BY THE LANDSCAPE ARCHITECT.
8. CONCRETE FOOTING OR MOUNTING BASES SHALL BE REMOVED AND DISPOSED OF AS PART OF THE REMOVAL WORK.
9. REMOVE AND STOCKPILE COBBLESTONES INCLUDING CONCRETE SETTING BED TO FULL DEPTH.
10. CLEAN COBBLESTONES OF LOOSE CONCRETE BY MECHANICAL MEANS. SEE LAYOUT DRAWINGS FOR DETERMINATION OF THE QUANTITY OF COBBLESTONES TO BE STOCKPILED FOR REUSE.
11. THE LOCATION OF MATERIALS STOCKPILES AND MATERIAL STORAGE SHALL BE AT THE DIRECTION OF THE LANDSCAPE ARCHITECT, ON SITE.
12. TREES TO BE REMOVED 6 INCH CALIPER AND LARGER SHALL HAVE STUMPS GROUND TO 18 INCHES BELOW FINISH GRADE UNLESS OTHERWISE REMOVED BY GRADING OPERATIONS.



NOTE: SEE DETAIL 2/R-1.4 FOR ADDITIONAL INFORMATION

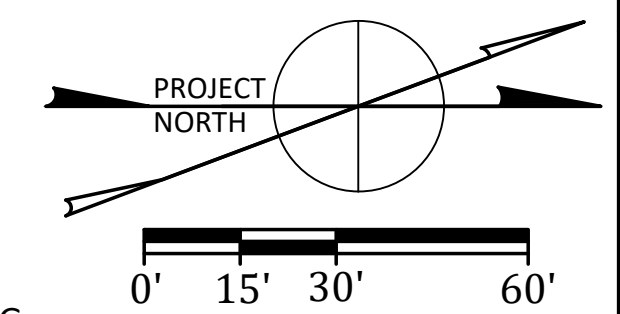
1 ELEVATION: TREE/PEDESTRIAN PROTECTION FENCING

R1.1 SCALE - 1/2" = 1'-0"



KEY

- REMOVE ASPHALT PAVING
- REMOVE GRAVEL PAVING/PATH
- REMOVE AND STOCKPILE COBBLESTONE CURB
- REMOVE CHAINLINK FENCE AND POST
- VEGETATION GRUBBING
- PROTECTION MATTING
- TREE PROTECTION FENCING (SEE DETAIL 1/R1.1)
- CONSTRUCTION FENCING



SOURCES
FLONHS, July 1918 Field Notes,
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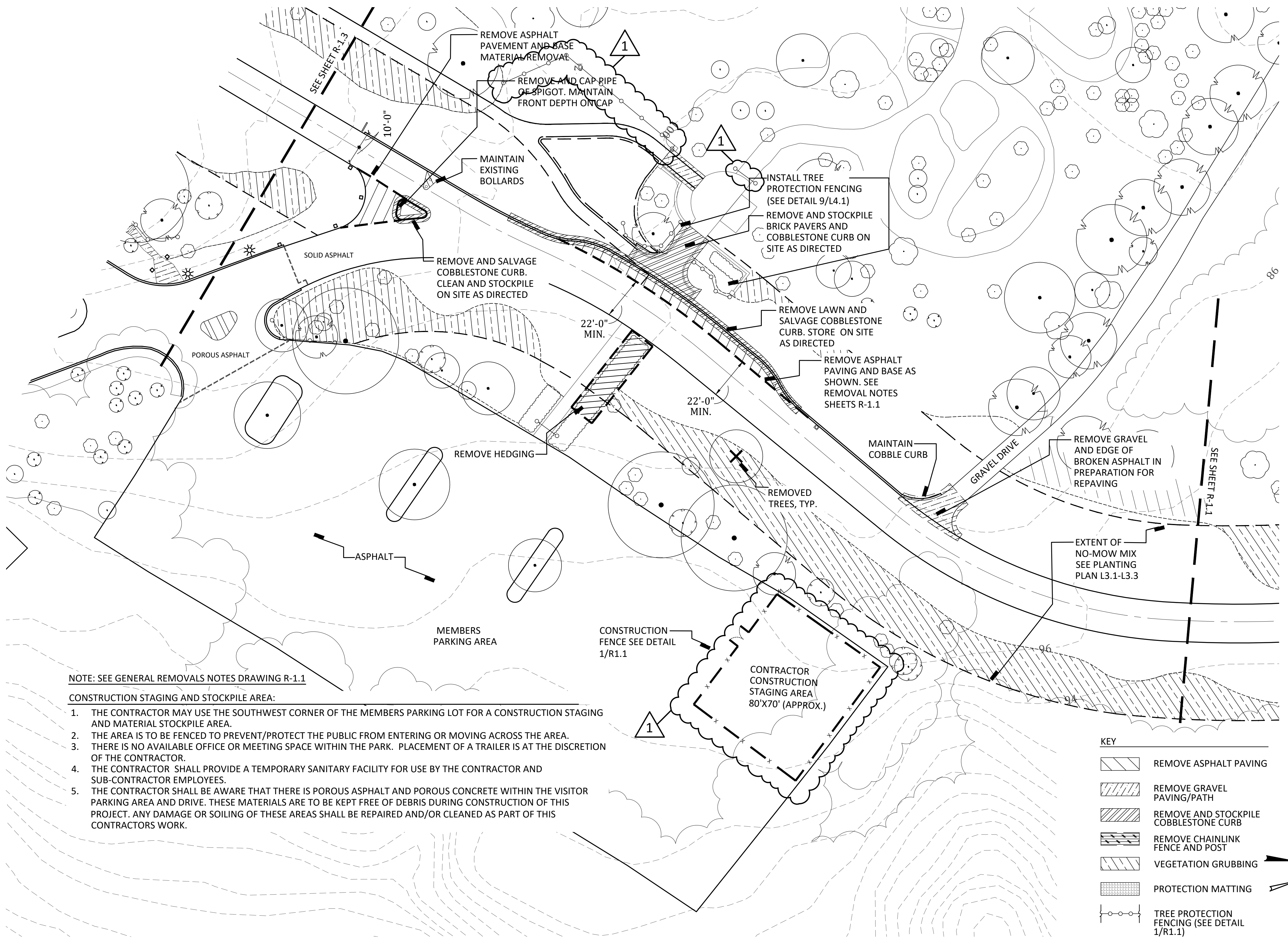
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Date:
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Sheet Title:
DRIVE AND WALK REMOVALS

Drawing Number:
R-1.2



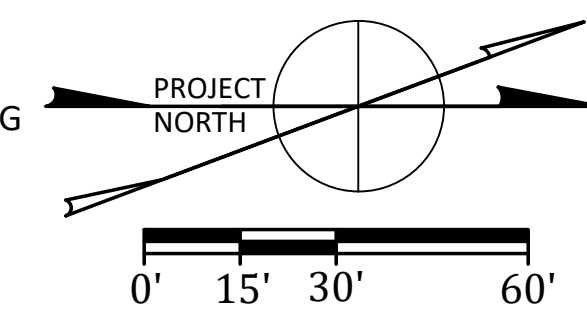
NOTE: SEE GENERAL REMOVALS NOTES DRAWING R-1.1

CONSTRUCTION STAGING AND STOCKPILE AREA:

1. THE CONTRACTOR MAY USE THE SOUTHWEST CORNER OF THE MEMBERS PARKING LOT FOR A CONSTRUCTION STAGING AND MATERIAL STOCKPILE AREA.
2. THE AREA IS TO BE FENCED TO PREVENT/PROTECT THE PUBLIC FROM ENTERING OR MOVING ACROSS THE AREA.
3. THERE IS NO AVAILABLE OFFICE OR MEETING SPACE WITHIN THE PARK. PLACEMENT OF A TRAILER IS AT THE DISCRETION OF THE CONTRACTOR.
4. THE CONTRACTOR SHALL PROVIDE A TEMPORARY SANITARY FACILITY FOR USE BY THE CONTRACTOR AND SUB-CONTRACTOR EMPLOYEES.
5. THE CONTRACTOR SHALL BE AWARE THAT THERE IS POROUS ASPHALT AND POROUS CONCRETE WITHIN THE VISITOR PARKING AREA AND DRIVE. THESE MATERIALS ARE TO BE KEPT FREE OF DEBRIS DURING CONSTRUCTION OF THIS PROJECT. ANY DAMAGE OR SOILING OF THESE AREAS SHALL BE REPAIRED AND/OR CLEANED AS PART OF THIS CONTRACTORS WORK.

KEY

- REMOVE ASPHALT PAVING
- REMOVE GRAVEL PAVING/PATH
- REMOVE AND STOCKPILE COBBLESTONE CURB
- REMOVE CHAINLINK FENCE AND POST
- VEGETATION GRUBBING
- PROTECTION MATTING
- TREE PROTECTION FENCING (SEE DETAIL 1/R1.1)
- CONSTRUCTION FENCING



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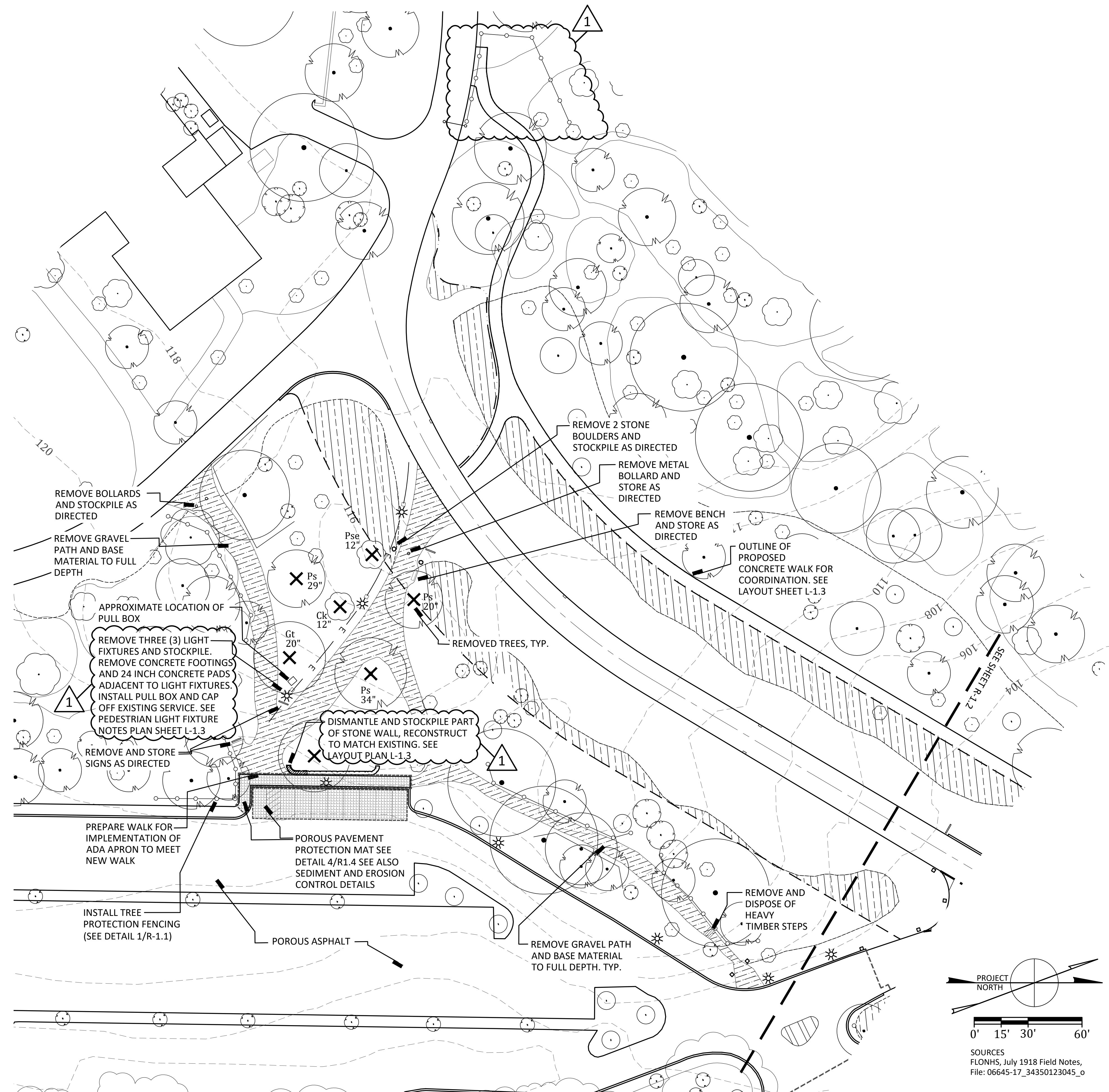
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DRIVE AND WALK REMOVALS

Drawing Number:

R-1.3

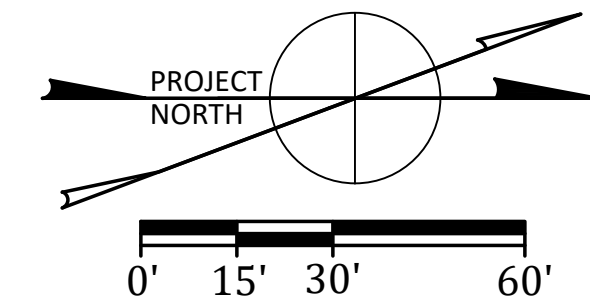


NOTE: SEE GENERAL REMOVALS NOTES DRAWING R-1.1

KEY

- REMOVE ASPHALT PAVING
- REMOVE GRAVEL PAVING/PATH
- REMOVE AND STOCKPILE COBBLESTONE CURB
- REMOVE CHAINLINK FENCE AND POST
- VEGETATION GRUBBING
- PROTECTION MATTING
- TREE PROTECTION FENCING (SEE DETAIL 1/R1.1)
- CONSTRUCTION FENCING

TREE REMOVAL NOTES



SOURCES
FLONHS, July 1918 Field Notes,
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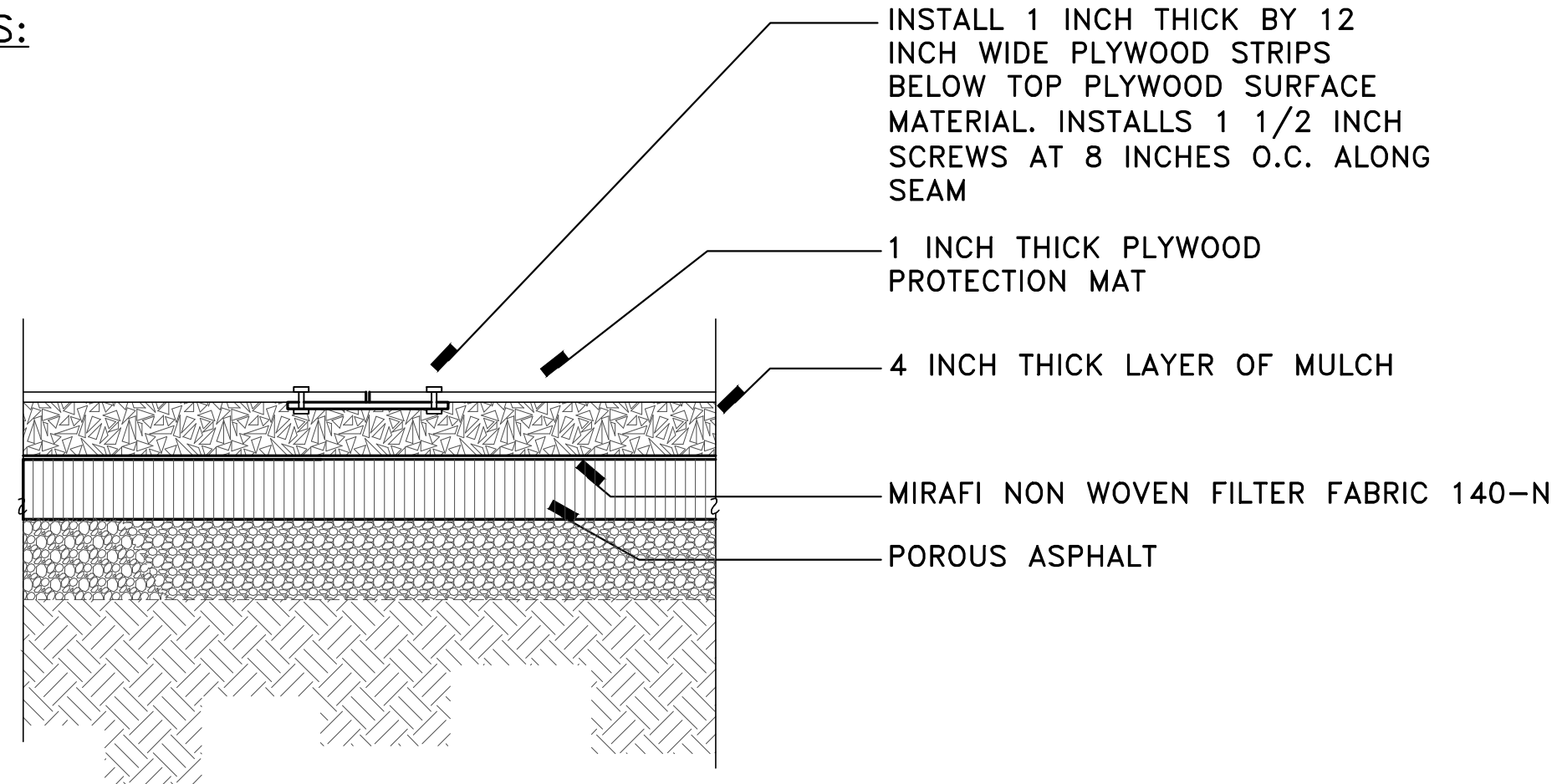
**REMOVALS AND
PROTECTION DETAILS**

Drawing Number:

R-1.4

GROUND PROTECTION BOARD NOTES:

- PROVIDE AND INSTALL 1 INCH THICK PLYWOOD PROTECTION MAT ATOP 4 INCH THICK LAYER OF SHREDDED MULCH.
- PLACE MIRAFI 140-N NON WOVEN FILTER FABRIC ATOP ASPHALT PAVING, OVERLAP SHEETS BY A MINIMUM OF 6 INCHES.
- INSTALL PROTECTION BOARD IN AREAS DESIGNATED FOR CONSTRUCTION STAGING



INSTALL 1 INCH THICK BY 12 INCH WIDE PLYWOOD STRIPS BELOW TOP PLYWOOD SURFACE MATERIAL. INSTALLS 1 1/2 INCH SCREWS AT 8 INCHES O.C. ALONG SEAM

1 INCH THICK PLYWOOD PROTECTION MAT

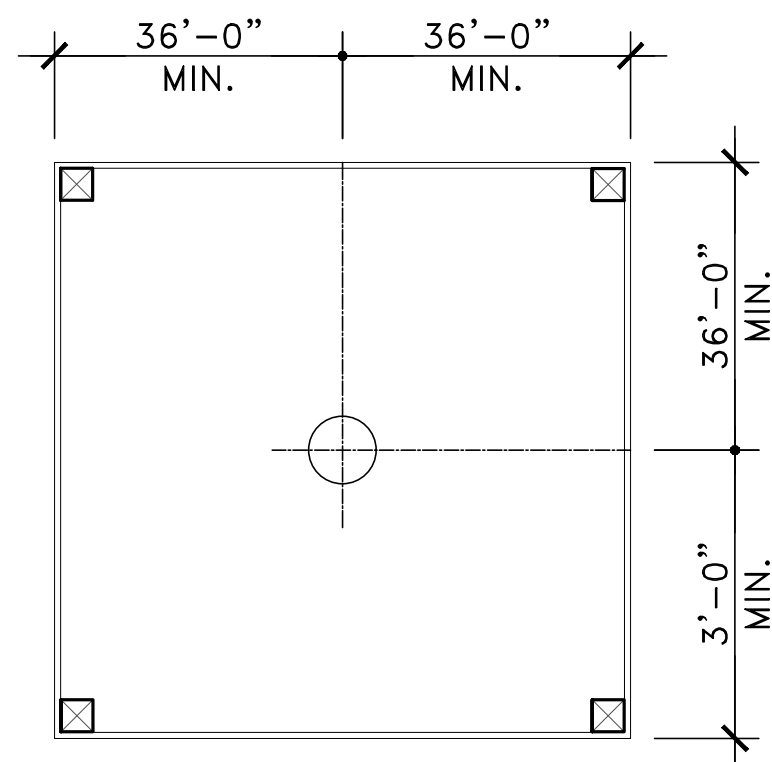
4 INCH THICK LAYER OF MULCH

MIRAFI NON WOVEN FILTER FABRIC 140-N

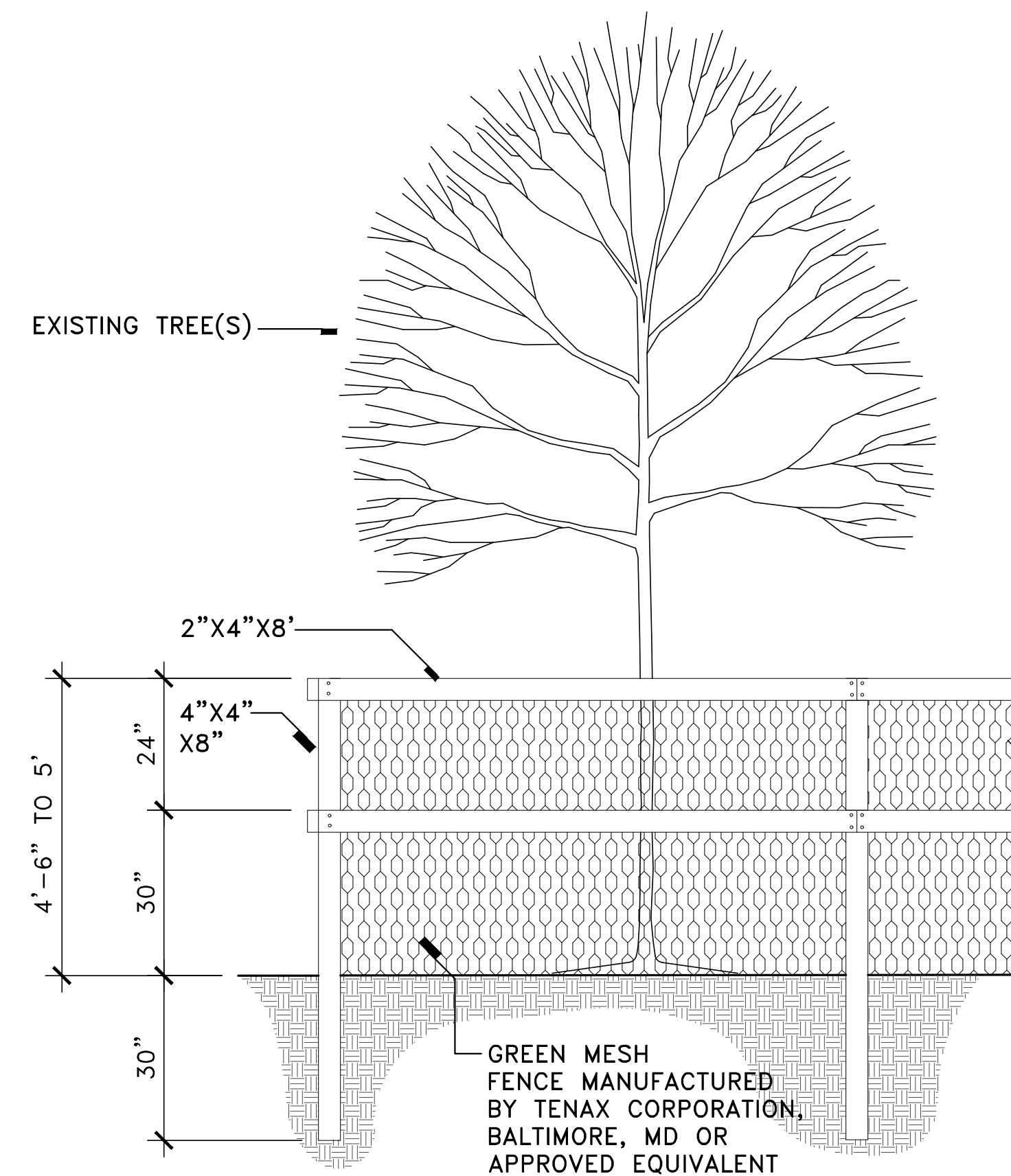
POROUS ASPHALT

NOTES:

1. USE UNTREATED LUMBER FOR TREE PROTECTION FENCING.
2. SEE PLAN FOR EXTENT AND LOCATION OF FENCE. LOCATE ON SITE WITH OWNERS REPRESENTATIVE. SPACE POSTS AT ±10'-0" O.C.
3. INSTALL TREE PROTECTION FENCING TO DRIPLINE OF TREE.



PLAN FOR SINGLE TREE

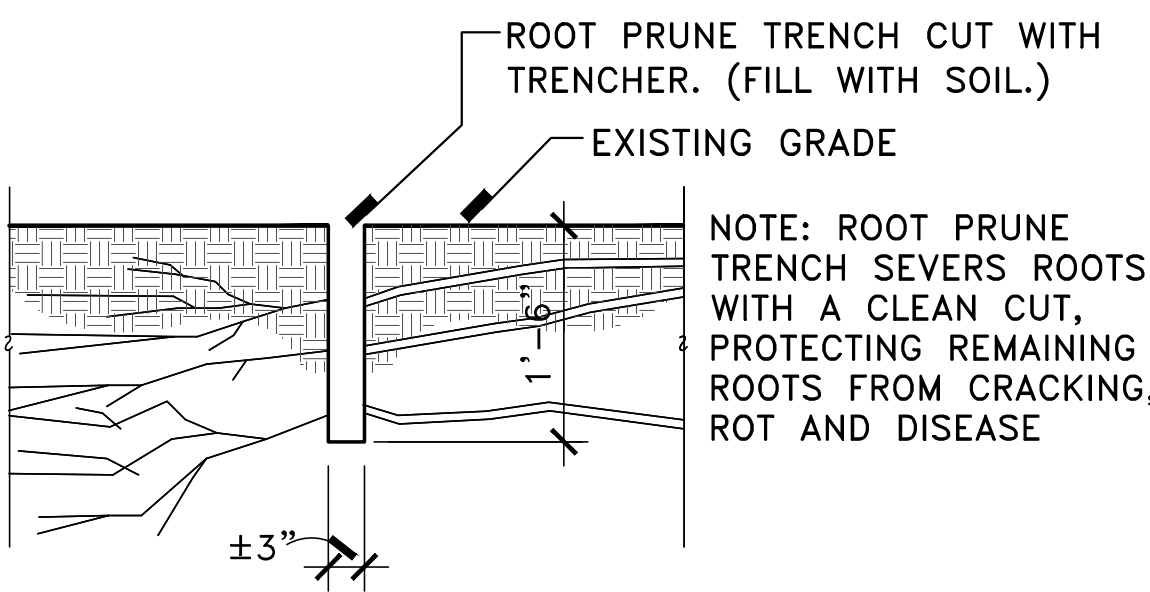


ELEVATION

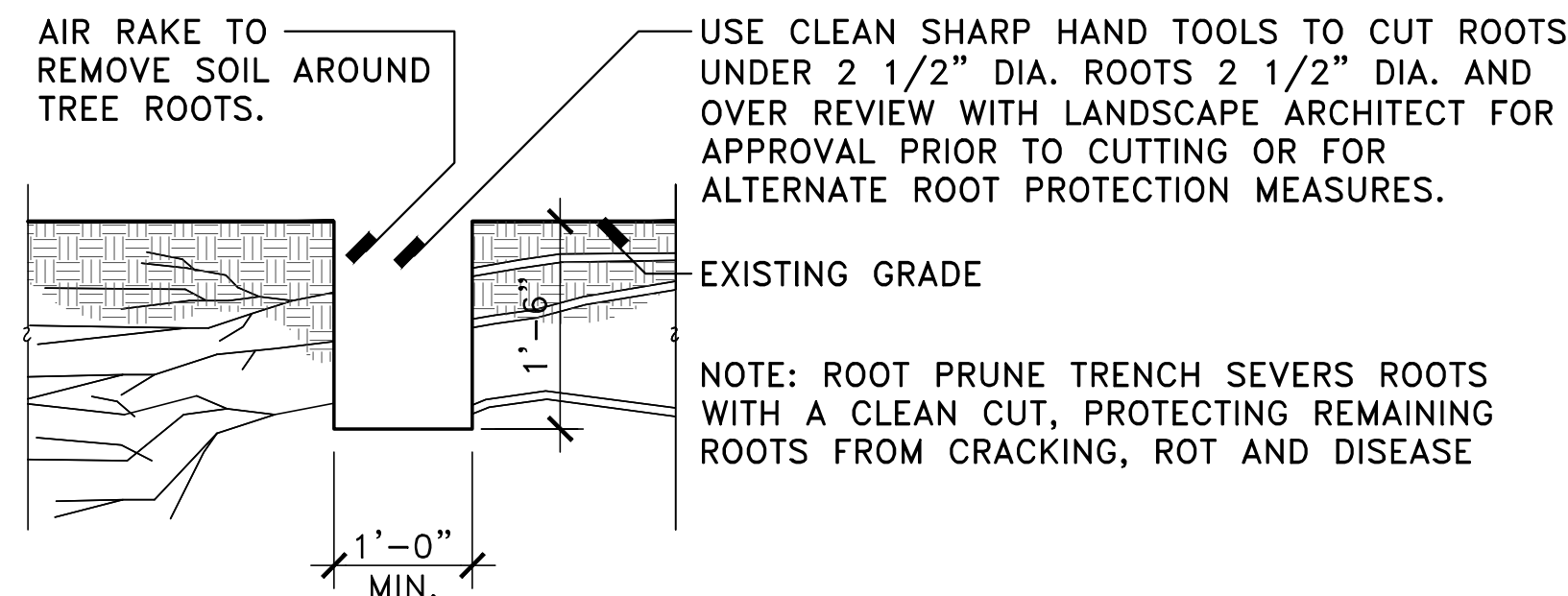
GREEN MESH FENCE MANUFACTURED BY TENAX CORPORATION, BALTIMORE, MD OR APPROVED EQUIVALENT

4 SECTION - POROUS PAVING GROUND PROTECTION

R1.4 SCALE - 1" = 1'-0"



ROOT PRUNE TRENCH CUT WITH TRENCHER. (FILL WITH SOIL.)
EXISTING GRADE
NOTE: ROOT PRUNE TRENCH SEVERS ROOTS WITH A CLEAN CUT, PROTECTING REMAINING ROOTS FROM CRACKING, ROT AND DISEASE



AIR RAKE TO REMOVE SOIL AROUND TREE ROOTS.

USE CLEAN SHARP HAND TOOLS TO CUT ROOTS UNDER 2 1/2" DIA. ROOTS 2 1/2" DIA. AND OVER REVIEW WITH LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO CUTTING OR FOR ALTERNATE ROOT PROTECTION MEASURES.

EXISTING GRADE

NOTE: ROOT PRUNE TRENCH SEVERS ROOTS WITH A CLEAN CUT, PROTECTING REMAINING ROOTS FROM CRACKING, ROT AND DISEASE

TREES UNDER 8 INCH CALIPER:

TREES 8 INCH CALIPER AND LARGER:

TREE ROOT PRUNING NOTES:

1: BEFORE CONSTRUCTION BEGINS:

- 1A. SEE LANDSCAPE REMOVALS AND PROTECTION PLAN DRAWING R-1.1 FOR LOCATIONS OF TREES WITHIN THE CONSTRUCTION AREA THAT MAY NEED TO BE ROOT PRUNED.
- 1B. PRIOR TO EXCAVATION OR GRADING, MARK LOCATION OF AREA TO BE EXCAVATED AND REVIEW WITH LANDSCAPE ARCHITECT AND OBTAIN WRITTEN APPROVAL FROM LANDSCAPE ARCHITECT TO ROOT PRUNE TREES.
- 1C. FOR TREES UNDER 8 INCH CALIPER, WITH A TRENCH VIBRATORY PLOW OR VERMEER TRENCHER, CUT A TRENCH ±3" WIDE. MAXIMUM 1'-6" DEEP AS SHOWN ON PLAN AND AS DIRECTED ON SITE BY LANDSCAPE ARCHITECT. FILL TRENCH WITH TOPSOIL AFTER ROOT PRUNING. SEE DETAIL.
- 1D. FOR TREES 8 INCH CALIPER AND OVER DO NOT USE VIBRATORY PLOW/VERMEER TRENCHER. HAND DIG AND USE AN AIR RAKE (AIR EXCAVATING TOOL/AIR KNIFE) TO REMOVE SOIL FROM EXISTING ROOTS WITHOUT DAMAGING OR SEVERING TREE ROOTS. UPON INSPECTION AND APPROVAL BY THE LANDSCAPE ARCHITECT, TREE ROOTS LESS THAN 2 1/2 INCH DIAMETER MAY BE CUT WITH A HAND SAW IN PREPARATION FOR CONSTRUCTION. FILL TRENCH WITH TOPSOIL AFTER ROOT PRUNING. SEE DETAIL.
- 1E. FOR ALL ROOTS 2 1/2 INCH AND GREATER IN DIAMETER REMOVE SOIL IN THE EXTENDED AREA OF NEEDED EXCAVATION AND REVIEW WITH LANDSCAPE ARCHITECT. REQUEST DIRECTION ON TREATMENT AND PROTECTION OF ROOT SYSTEMS WHICH MAY INCLUDE USE OF SCHEDULE 80 PVC SLEEVE CUT TO PROTECT ROOT.
- 1F. FOR UTILITY EXCAVATIONS WITHIN TREE DRIPLINES, TREE ROOT PROTECTION AND PRUNING ARE TO PROCEED USING HAND DIGGING OPERATIONS. TREE ROOTS 1 INCH IN DIAMETER AND LARGER SHALL BE RETAINED AND UTILITIES SLEEVED OR TUNNELED BELOW. REVIEW ON SITE WITH THE

LANDSCAPE ARCHITECT FOR DETERMINATION OF TREE PROTECTION MEASURES TO BE UNDERTAKEN, WHICH MAY INCLUDE USE OF AN AIR RAKE FOR MAINTAINING AND INSTALLING UTILITIES WITHIN TREE ROOT ZONES.

1G. SPREAD MULCH 2" DEEP OVER AREA WITHIN TREE PROTECTION FENCE FOR TREES THAT HAVE BEEN ROOT PRUNED. USE SHREDDED HARDWOOD MULCH. MAINTAIN MULCH DURING CONSTRUCTION OPERATIONS.

1H. APPLY WATER TO ENTIRE MULCHED AREA OF ROOT PRUNED TREES TO ACHIEVE NORMAL RAINFALL RATE THROUGHOUT CONSTRUCTION. WATER A MINIMUM OF ONCE EVERY TWO WEEKS TO A ONE (1) INCH DEPTH IN ABSENCE OF SUBSTANTIAL RAINFALL.

1I. IF CONSTRUCTION OPERATIONS MUST TAKE PLACE WITHIN THE TREE PROTECTION FENCE, PLACE GROUND PROTECTION BOARD OVER FOUR (4) INCH THICK LAYER OF MULCH IN PATH OF OPERATIONS. REMOVE MATTING AND MULCH IMMEDIATELY FOLLOWING COMPLETION OF OPERATIONS.

2: POST CONSTRUCTION:

2A. ALLOW INSPECTION OF ROOTING WITHIN MULCH BY LANDSCAPE ARCHITECT.

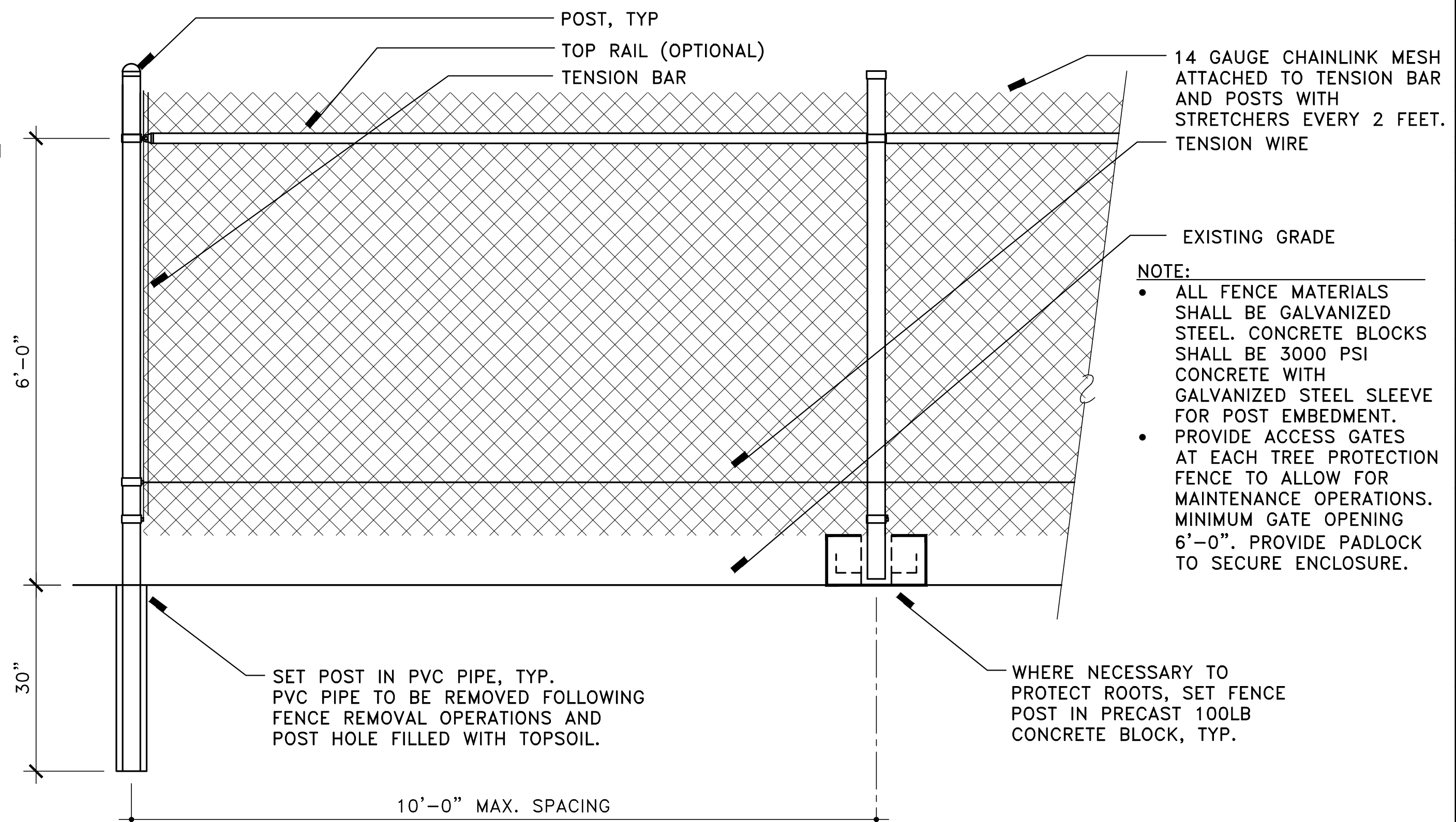
2B. REMOVE LOOSE MULCH LAYER CAREFULLY BY HAND

2C. REMOVE TREE PROTECTION FENCE ACCESSING FROM OUTSIDE TREE PROTECTION ZONE. AVOID COMPACTION, PULL POST VERTICALLY FROM GROUND TO REMOVE.

2D. RESTORE FINISH GRADE AND LANDSCAPE TREATMENT(S).

2 TREE PROTECTION FENCE INDIVIDUAL

R1.4 SCALE - 1/2" = 1'-0"



NOTE:

- ALL FENCE MATERIALS SHALL BE GALVANIZED STEEL. CONCRETE BLOCKS SHALL BE 3000 PSI CONCRETE WITH GALVANIZED STEEL SLEEVE FOR POST EMBEDMENT.
- PROVIDE ACCESS GATES AT EACH TREE PROTECTION FENCE TO ALLOW FOR MAINTENANCE OPERATIONS. MINIMUM GATE OPENING 6'-0". PROVIDE PADLOCK TO SECURE ENCLOSURE.

SET POST IN PVC PIPE, TYP. PVC PIPE TO BE REMOVED FOLLOWING FENCE REMOVAL OPERATIONS AND POST HOLE FILLED WITH TOPSOIL.

WHERE NECESSARY TO PROTECT ROOTS, SET FENCE POST IN PRECAST 100LB CONCRETE BLOCK, TYP.

3 SECTION - TREE ROOT PROTECTION & PRUNING

R1.4 SCALE - 3/4" = 1'-0"

1 SECTION - CONSTRUCTION FENCE

R1.4 SCALE - 3/4" = 1'-0"

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Sheet Title:
DRIVE AND WALK LAYOUTS

Drawing Number:
L-1.1

GENERAL NOTES :

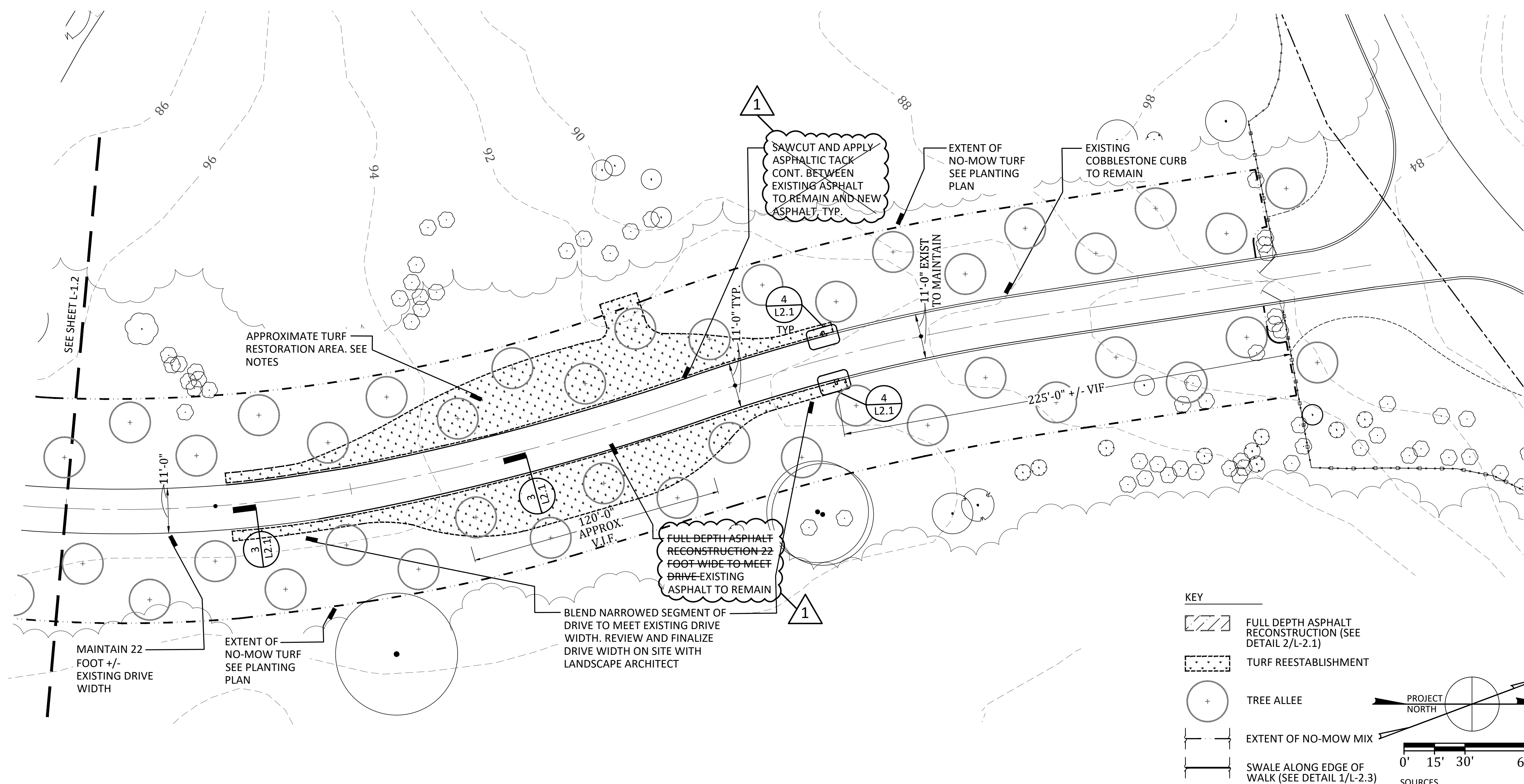
1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR IMPLEMENTING SITE WORK UNDER THESE CONTRACT DOCUMENTS
2. PLANTING FIELDS ARBORETUM IS A PUBLIC SITE AND WILL REMAIN OPERATIONAL DURING THE CONSTRUCTION. THE CONTRACTOR IS TO PROVIDE SITE PROTECTION MEASURES THAT ADDRESS PUBLIC SAFETY DURING CONSTRUCTION OPERATIONS.
3. IN THE EVENT THAT PAVING OPERATIONS REQUIRE THE DRIVE TO BE CLOSED FOR A PERIOD OF TIME THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE PLANTING FIELDS FOUNDATION TO SCHEDULE THE WORK DURING A TIME WHEN TRAFFIC ACCESS BY THE PUBLIC, ORGANIZATIONS AND TENANTS, CAN BE RE-ROUTED TO ENTER USING THE HISTORIC GATES/DRIVE FROM CHICKEN VALLEY ROAD.
4. CONTRACTOR AND SUB-CONTRACTOR EMPLOYEES PARKING IS AVAILABLE IN THE MEMBERS PARKING LOT, IN THE DESIGNATED AREA.
5. WALK ALIGNMENTS AND GRADING ARE TO BE STAKED BY THE CONTRACTOR AND REVIEWED ON SITE BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR IS TO MAKE ADJUSTMENTS AS REQUESTED. SEE SPECIFICATIONS SECTION 01 7300 EXECUTION OF LAYOUT AND GRADING FOR DETAILED INFORMATION

6. ASPHALT PAVEMENT REDUCTION AND REPAIR WORK SHALL BE STAKED AND REVIEWED IN ADVANCE FOR ACCEPTANCE BY THE LANDSCAPE ARCHITECT
7. ALIGNMENT AND EXTENT OF COBBLESTONE CURB CONSTRUCTION TO BE FINALIZED ON SITE WITH THE LANDSCAPE ARCHITECT.
8. THE DRIVE SHALL BE GRADED TO MAINTAIN THE EXISTING DRAINAGE PATTERN WITHOUT CREATING ANY LOW SPOTS FOR STANDING OR PONDING OF WATER.
9. CONCRETE WALK (S) SHALL BE CONSTRUCTED TO MEET ADA GUIDELINE OF UNDER 5% GRADIENT WITH POSITIVE SURFACE FLOW AND CROSS SLOPE OF NOT MORE THAN 1.8 PERCENT
10. RESTORATION OF TURF AREAS ARE TO INCLUDE IMPORTING TOPSOIL AND GRADING TO MEET FINISH GRADES WHERE ASPHALT, GRAVEL WALKS AND BASE MATERIALS HAVE BEEN REMOVED AND WHERE THE LANDSCAPE IS OTHERWISE DAMAGED BY CONSTRUCTION OPERATIONS.
11. SEE PLANTING DRAWINGS L-3.1, L-3.2 AND L-3.3 FOR PLANTING AND TURF ESTABLISHMENT TO BE CARRIED OUT UNDER THIS CONTRACT WORK.

GENERAL SUMMARY OF WORK :

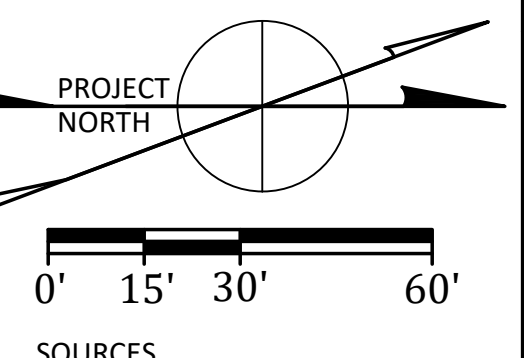
WORK UNDER THIS CONTRACT SHALL INCLUDE AND IS NOT LIMITED TO THE FOLLOWING. REVIEW ALL CONTRACT DRAWINGS AND SPECIFICATIONS FOR DETAILED WORK INFORMATION AND REQUIREMENTS.

1. SELECTIVE REMOVAL AND RE-CONSTRUCTION OF THE ASPHALT DRIVE TO ESTABLISH A TWENTY - TWO FOOT (22'-0") TRAVEL LANE WIDTH
2. ASPHALT PAVING ADJUSTMENTS AT THE VISITOR PARKING ENTRY AND THE MAIN DRIVE
3. GRADING AND CONSTRUCTION OF AN EXPOSED AGGREGATE CONCRETE PEDESTRIAN WALK ALONG THE WEST SIDE OF THE ENTRY DRIVE
4. GRADING AND CONSTRUCTION OF AN EXPOSED AGGREGATE CONCRETE PEDESTRIAN WALK FROM THE VISITOR PARKING AREA TO COE HALL
5. RELOCATION OF VEHICULAR COBBLE STONE CURB AND ASPHALT REPAIR
6. BRICK REPAIR WORK AT THE SYNOPTIC GARDEN TERRACE
7. REMOVAL OF PEDESTRIAN LIGHT FIXTURES AT THE PEDESTRIAN WALKS
8. REPAIR AND CONSTRUCTION OF A LOW COBBLE STONE RETAINING WALL
9. PLANTING OF AN OAK TREE ALLEE ALONG THE ENTRY DRIVE
10. IMPLEMENTATION OF A NO-MOW TURF LAWN BELOW THE OAK TREE ALLEE
11. RELOCATION OF INFORMATIONAL AND VEHICULAR REGULATORY SIGNAGE



KEY

- [Hatched Box] FULL DEPTH ASPHALT RECONSTRUCTION (SEE DETAIL 2/L-2.1)
- [Dotted Box] TURF REESTABLISHMENT
- [Circle with +] TREE ALLEE
- [Dashed Line] EXTENT OF NO-MOW MIX
- [Line with Ticks] SWALE ALONG EDGE OF WALK (SEE DETAIL 1/L-2.3)



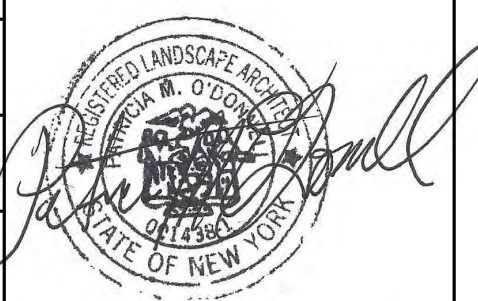
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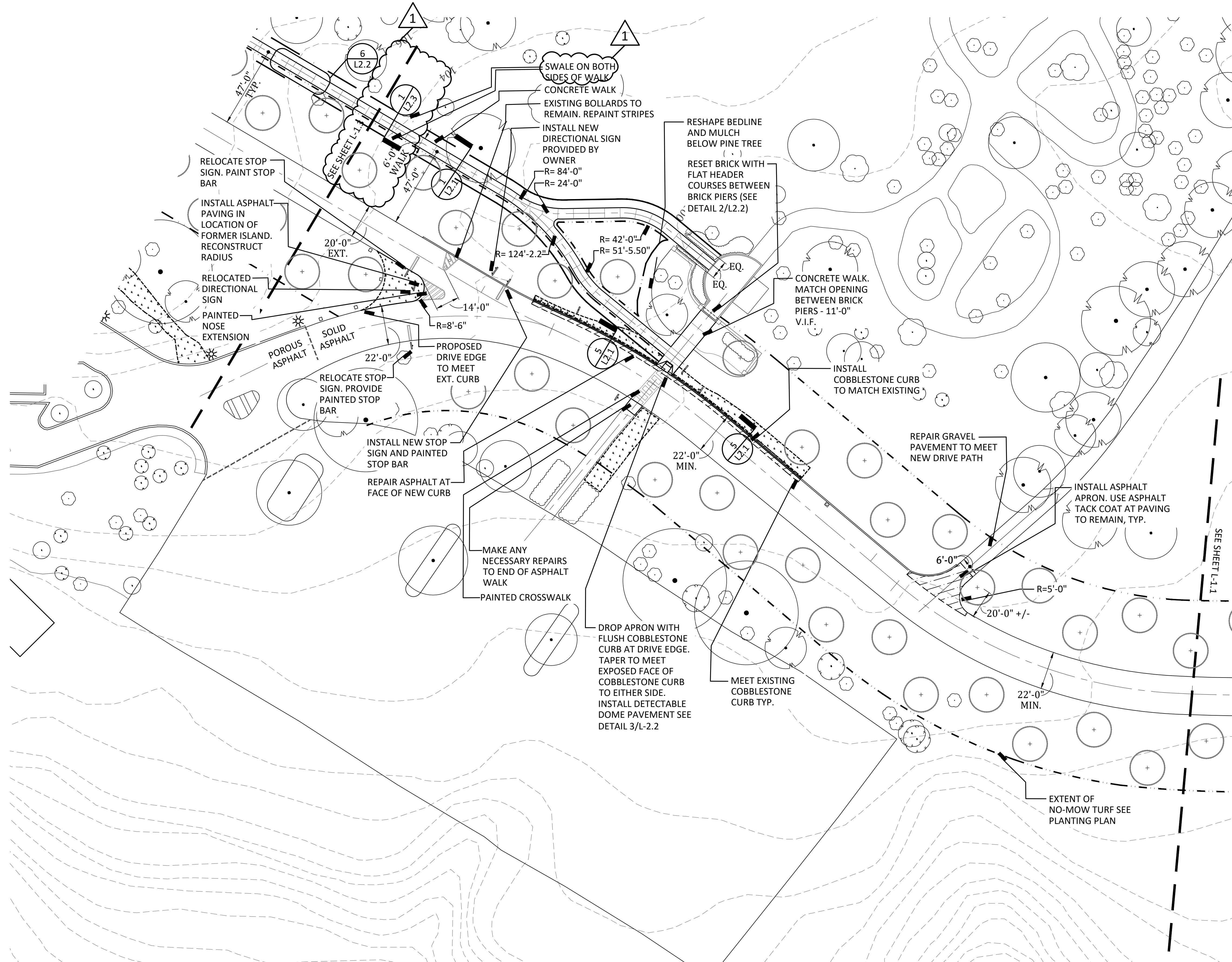


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10 Mar. 2023

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DRIVE AND WALK LAYOUTS

Drawing Number:

L-1.2



KEY

- FULL DEPTH ASPHALT RECONSTRUCTION (SEE DETAIL 2/L-2.1)
- TURF REESTABLISHMENT
- TREE ALLEE
- EXTENT OF NO-MOW MIX


PROJECT NORTH

SOURCES
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LAYOUT AND GRADING NOTES:

1. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH REQUIREMENTS FOR THE LAYOUT AND GRADING OF THE WALKS AS OUTLINED IN SPECIFICATION SECTION 01 7300 EXECUTION OF LAYOUT AND GRADING OF THE SPECIFICATIONS
2. WALK GRADES ARE BASED ON GRADING AND DRAINAGE PLAN C3.0 OF THE 2015 FINAL BID DOCUMENTS (4/3/15 BY H2M ARCHITECTS + ENGINEERS) AND AERIAL CONTOURS AS USED FOR PLANNING PURPOSES. AN ACTUAL CONTOUR SURVEY OF THE PROJECT AREA IS NOT AVAILABLE
3. THE EXTENT OF CONTOUR GRADING WORK SHOWN FOR CONSTRUCTION OF THE EAST WALK IS PROVIDED AS AN ORDER OF MAGNITUDE FOR COSTING AND PLANNING PURPOSES. THE ACTUAL EXTENT OF GRADING MAY VARY MODESTLY TO ACHIEVE ADA COMPLIANCE OF UNDER 5 PERCENT FOR THIS WALK SEGMENT AND SHAPING OF THE LANDSCAPE.
4. THE WEST WALK IS CONSTRUCTED ON LEVEL TO MODESTLY SLOPING LAND. THE CONTRACTOR SHALL WORK WITH THE LANDSCAPE ARCHITECT TO IDENTIFY FINISH ELEVATIONS AND ESTABLISH POSITIVE GRADIENTS AND CROSS PITCH TO MAINTAIN WALKS FREE OF SURFACE WATER AND ADA COMPLIANCE.
5. WALKS SHALL BE STAKED ON SITE, REVIEWED WITH THE LANDSCAPE ARCHITECT AND MODIFIED TO FIT ACTUAL SITE CONDITIONS
6. CONTRACTOR IS REQUIRED TO PROVIDE SPOT ELEVATIONS OF EXISTING GRADES TO THE LANDSCAPE ARCHITECT.
7. THE LANDSCAPE ARCHITECT WILL COORDINATE WITH THE CONTRACTOR TO STABILIZE AND REFINE WALK ELEVATIONS BASED ON ACTUAL FIELD ELEVATIONS AS PROVIDED.
8. LANDSCAPE ARCHITECT WILL REVIEW WALK ALIGNMENTS AND GRADES ON SITE, MAKING ADJUSTMENTS WHERE NEEDED.

- GENERAL NOTES: PEDESTRIAN LIGHT FIXTURE INSTALLATION AND ELECTRICAL SERVICE
1. REMOVE AND STORE EXISTING PEDESTRIAN SHEPHERD CROOK LIGHT FIXTURES IN A LOCATION ON SITE AS DIRECTED BY LANDSCAPE ARCHITECT.
 2. INSTALL ELECTRIC HAND PULL BOX AT THE EXISTING LIGHT FIXTURE AND CAP OFF ELECTRICAL SERVICE FOR FUTURE CONNECTION.
 3. INSTALL TWO (2) 1 1/2" DIA. PVC CONDUIT TO EACH OF THE INDICATED PULL BOXES ALONG THE WALK.
 4. EXTEND THE CONDUITS AND INSTALL PULL BOXES ACROSS THE DRIVE FOR FUTURE SERVICE TO FUTURE FIXTURES ON THE WEST SIDE OF THE DRIVE. TRENCH AND MAKE NECESSARY REPAIRS TO THE DRIVE.



New York State
Parks, Recreation and
Historic Preservation

Governor Kathy Hochul
Commissioner Erik Kulesseid

EXECUTIVE DEPUTY COMMISSIONER
TOM ALWORTH
DEPUTY COMMISSIONER, CAPITAL PROJECTS
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Contract No: PFF 030623

Project Title:
Planting Fields Entry Drive Trees, Walks and Drive Repair

Project Location:
Planting Fields Arboretum
1395 Planting Fields Road
Oyster Bay, New York 11771

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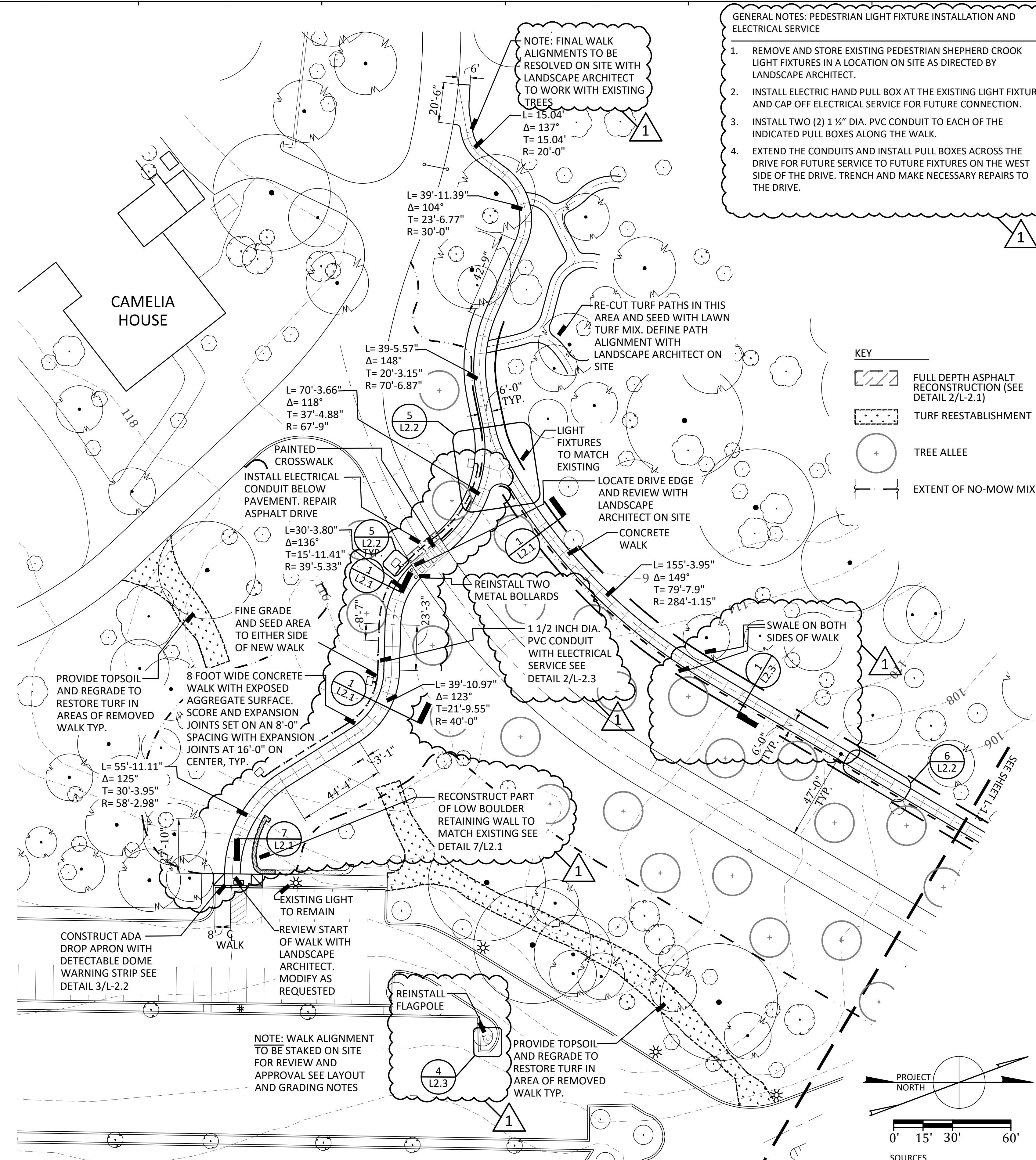
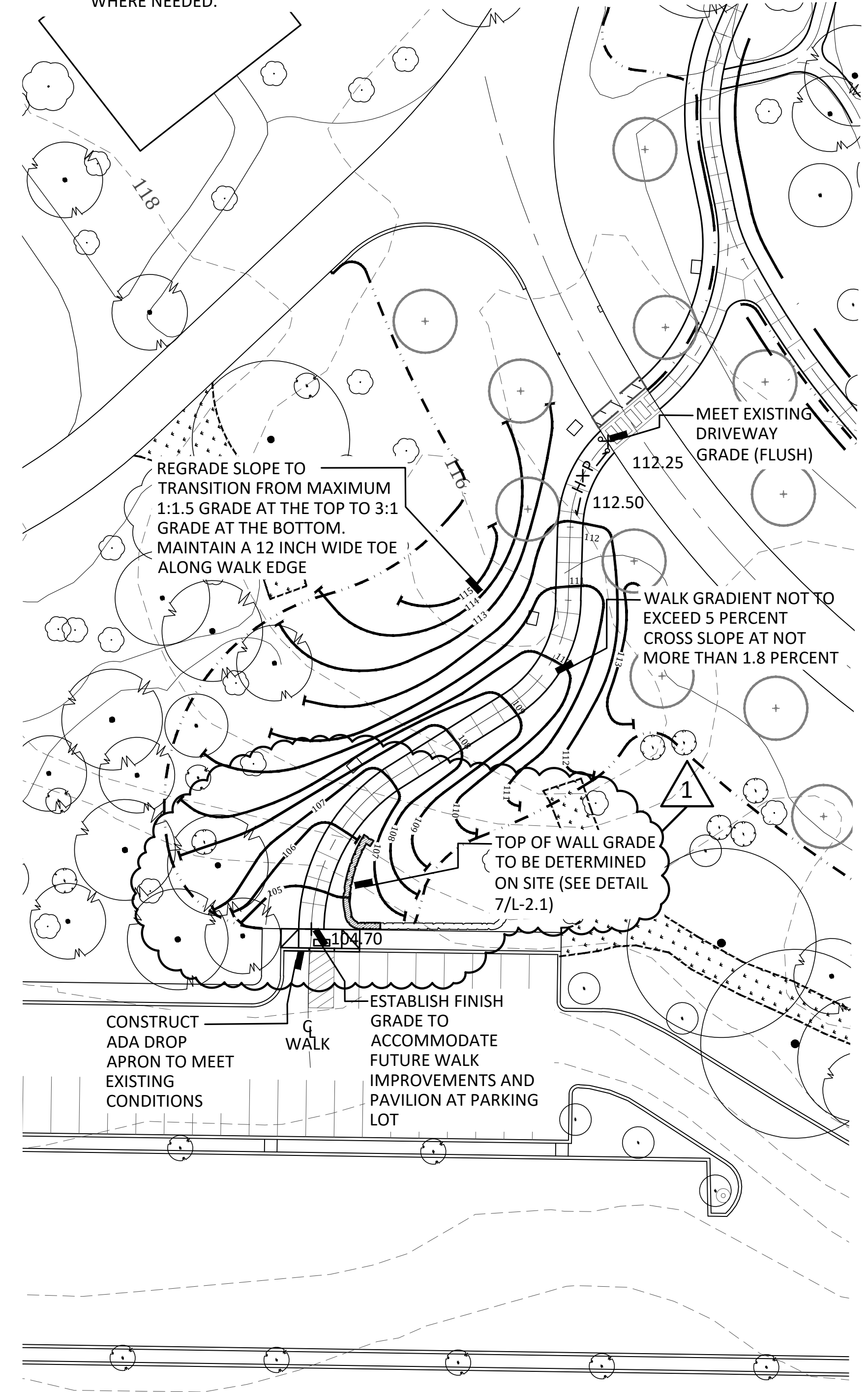
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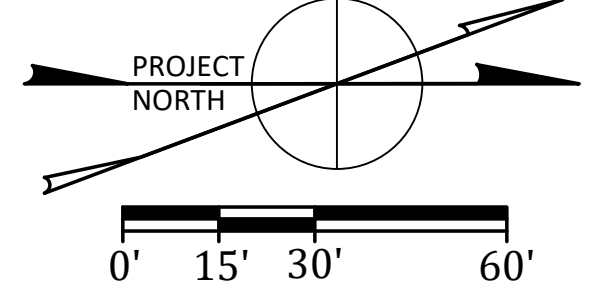
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DRIVE AND WALK LAYOUTS

Drawing Number:
L-1.3

Project Number:
PFF ENTRY 0306-2023
Sheet:
13 OF 19



- KEY
- FULL DEPTH ASPHALT RECONSTRUCTION (SEE DETAIL 2/L-2.1)
 - TURF REESTABLISHMENT
 - TREE ALLEE
 - EXTENT OF NO-MOW MIX



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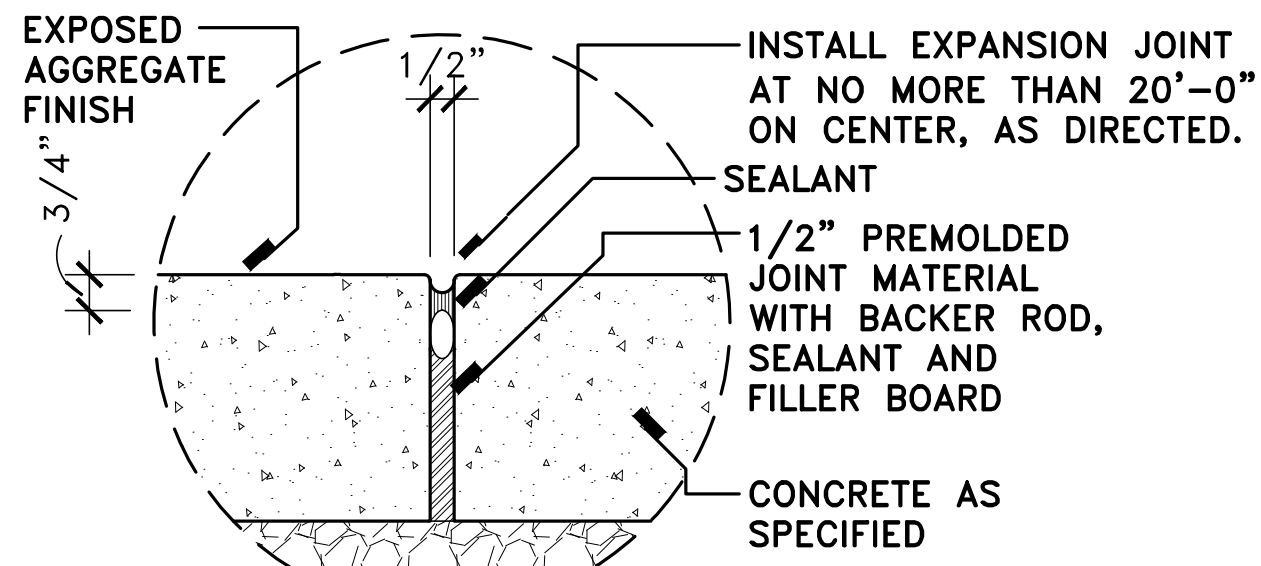
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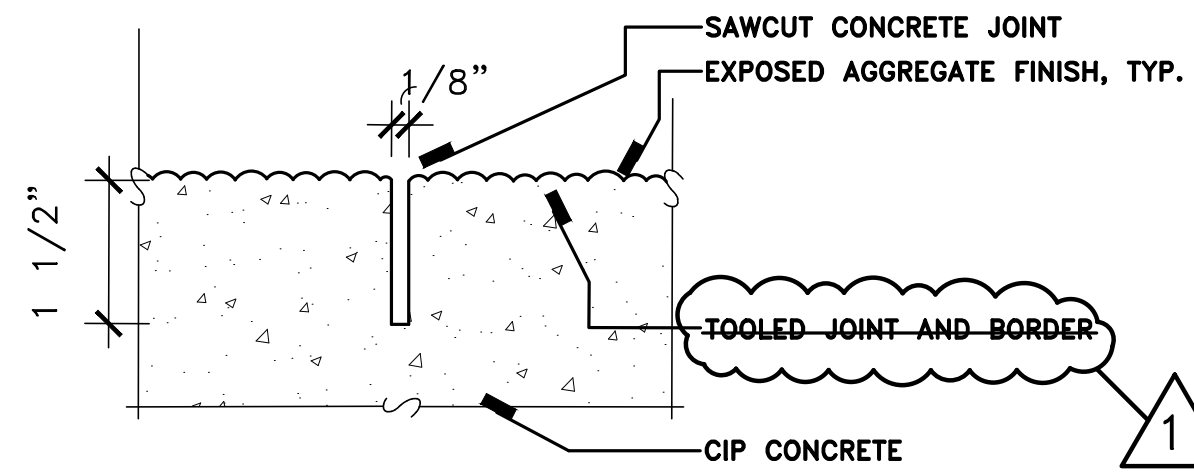
**LANDSCAPE
DETAILS**

Drawing Number:

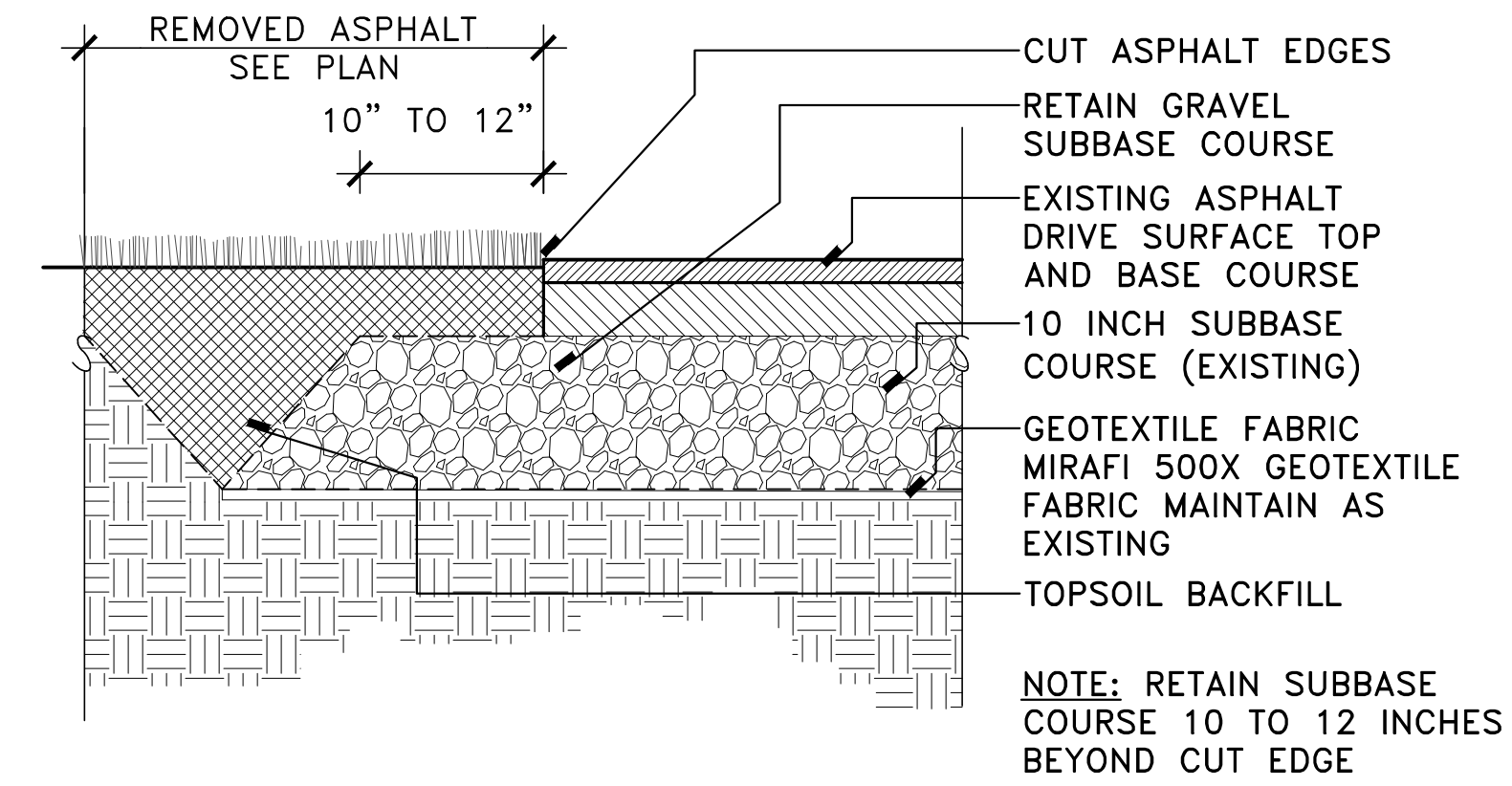
L-2.1



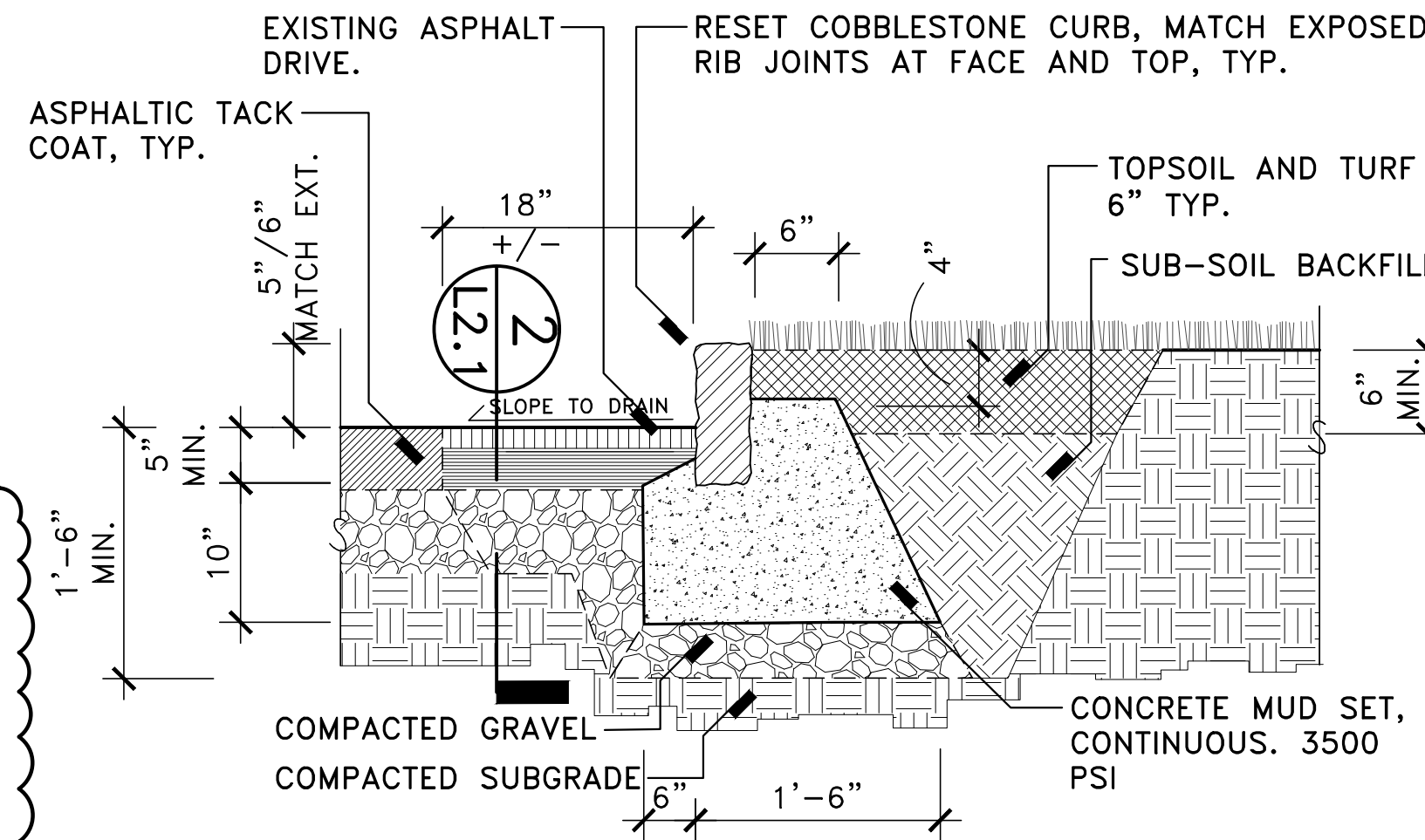
8 SECTION: EXPANSION JOINT
L2.1 SCALE - 3" = 1'-0"



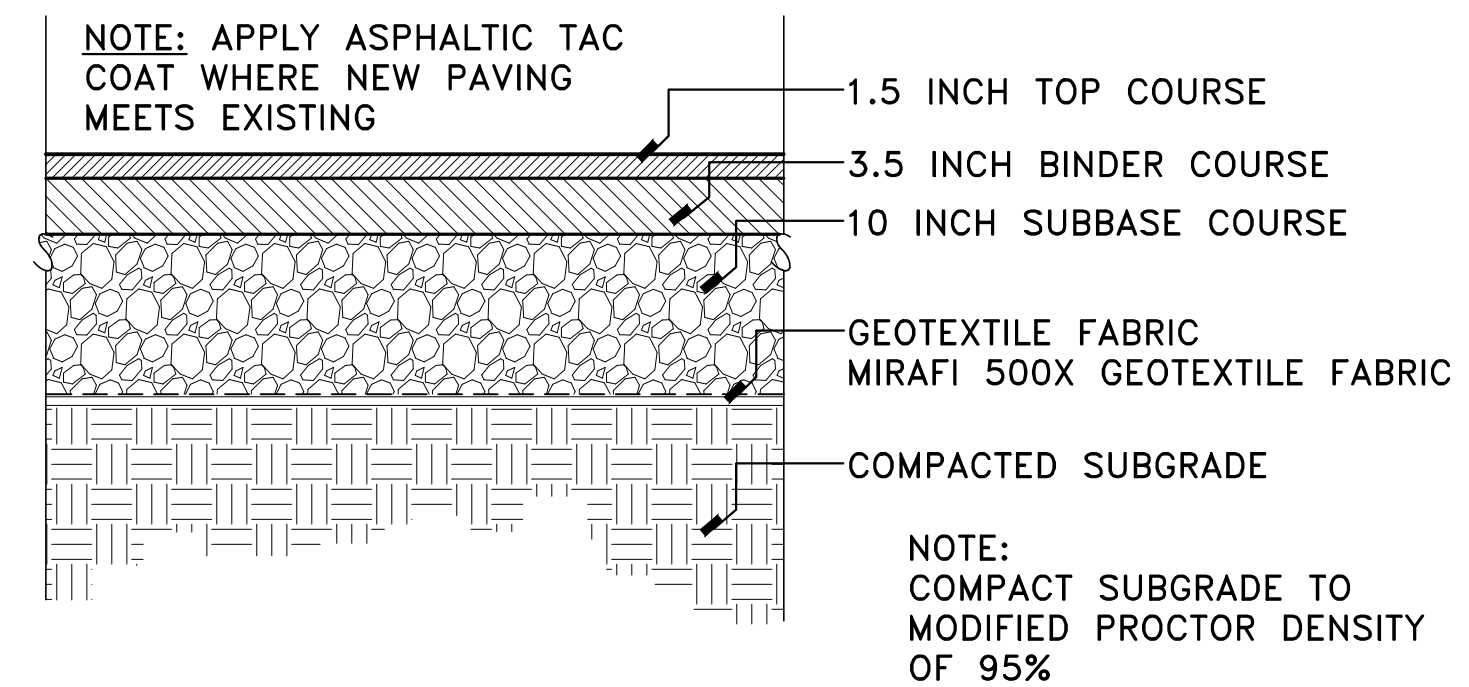
6 SECTION: SAWCUT JOINT
L2.1 SCALE - 6" = 1'-0"



3 SECTION: DRIVE CUT EDGE AT REMOVAL SECTION
L2.1 SCALE - 1" = 1'-0"

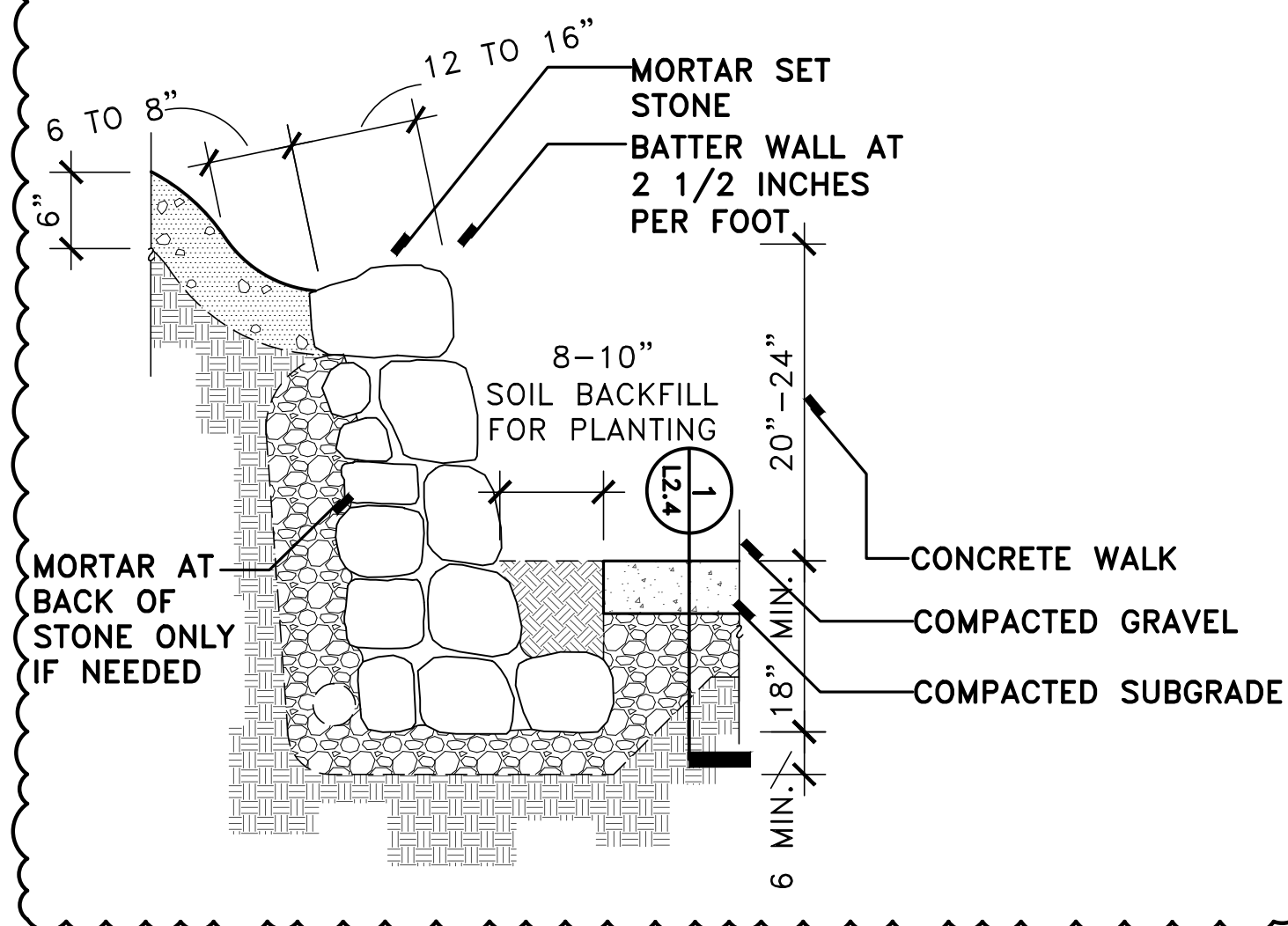


5 SECTION: COBBLESTONE CURB
L2.1 SCALE - 1" = 1'-0"

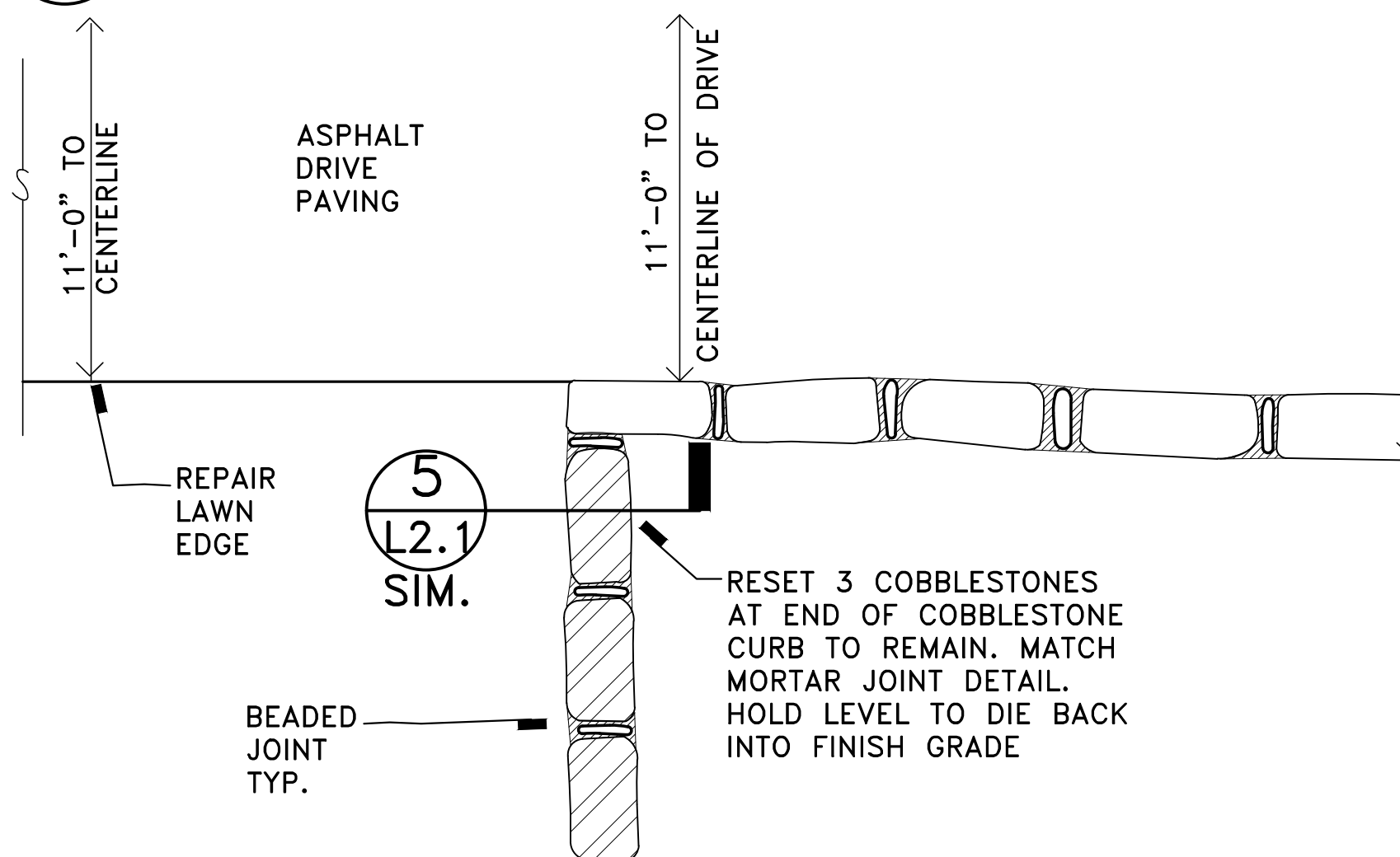


2 SECTION: FULL DEPTH ASPHALT DRIVE
L2.1 SCALE - 1" = 1'-0"

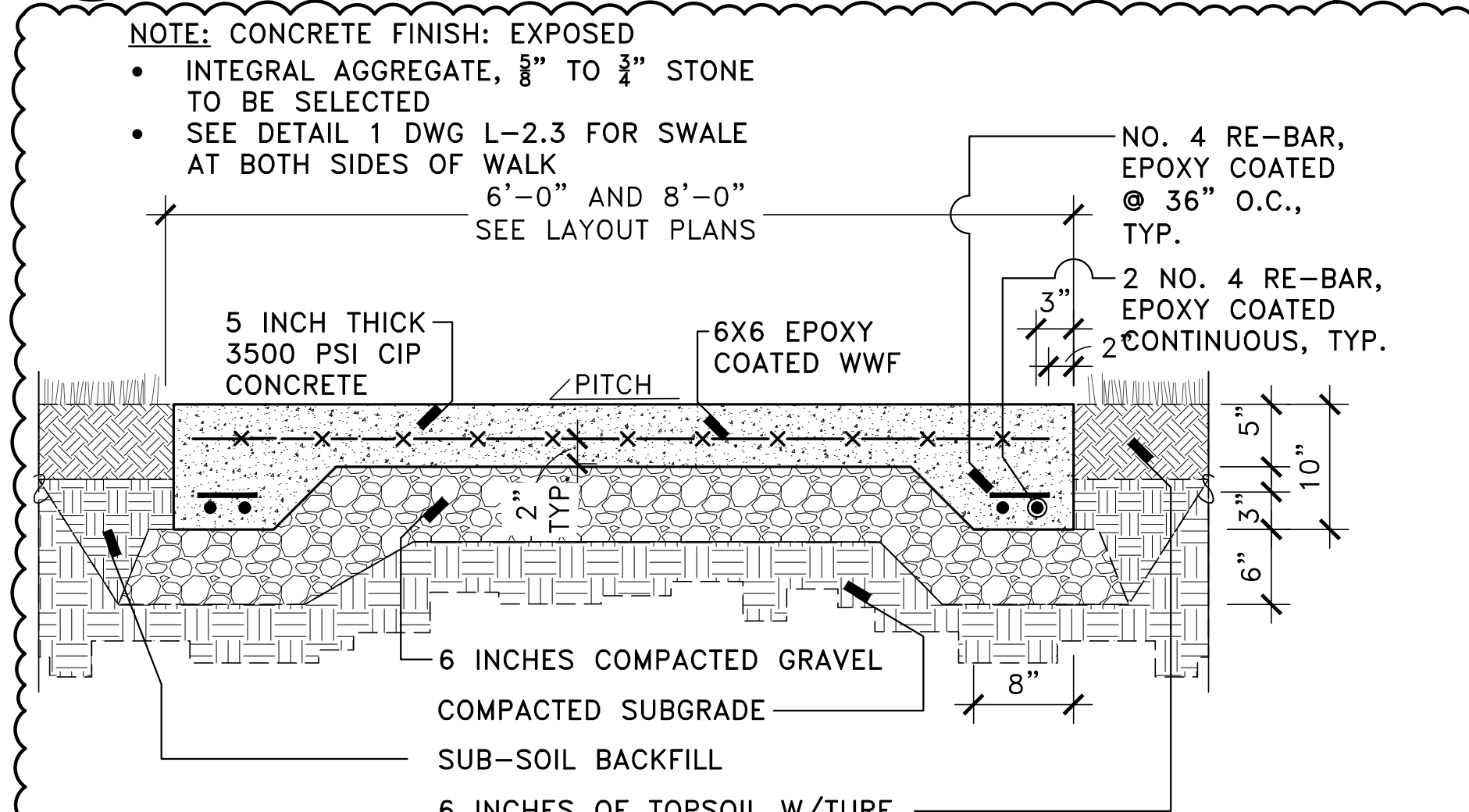
- MASONRY NOTES:**
- RECONSTRUCT WALL USING STOCKPILED STONE AND PROVIDE ADDITIONAL STONE TO MATCH AS NEEDED
 - STONES SHALL MATCH THE COLOR RANGE AND BE SIZED IN A RANGE OF 10 TO 18 INCHES IN DIAMETER AND TO MATCH THE OVERALL STONE CHARACTER OF THE EXISTING STONE.
 - UTILIZE DRYWALL STONE CONSTRUCTION WITH ONLY A MODEST AMOUNT OF MORTAR USED AT THE BACK AND INSIDE MASONRY IF NEEDED. MORTAR SHALL NOT BE VISIBLE
 - WALL HEIGHT SHALL MATCH THE EXISTING AT THE FACE OF PARKING LOT AND MAINTAIN A GENERAL LEVEL TOP UNTIL IT BLENDS WITH THE UP-SLOPING GRADE AT MAINTAINING +/- 6 INCHES ABOVE THE FINISH INSIDE GRADE.



7 SECTION: RETAINING WALL RECONSTRUCTION
L2.1 SCALE - 3/4" = 1'-0"



4 PLAN: COBBLESTONE CURB TRANSITION AT ASPHALT DRIVE
L2.1 SCALE - 1" = 1'-0"



1 SECTION: CONCRETE WALK (EXPOSED AGGREGATE)
L2.1 SCALE - 1" = 1'-0"

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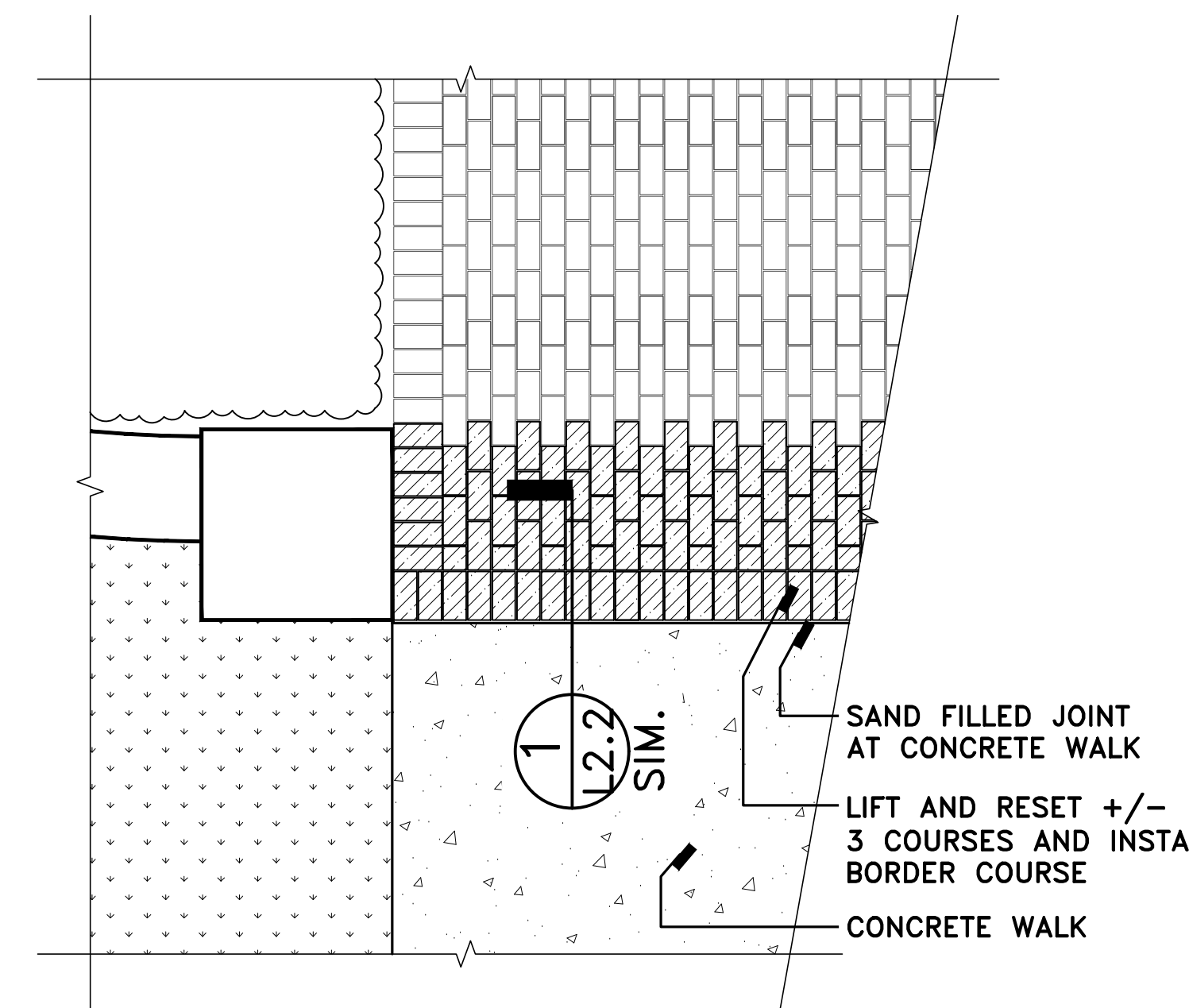
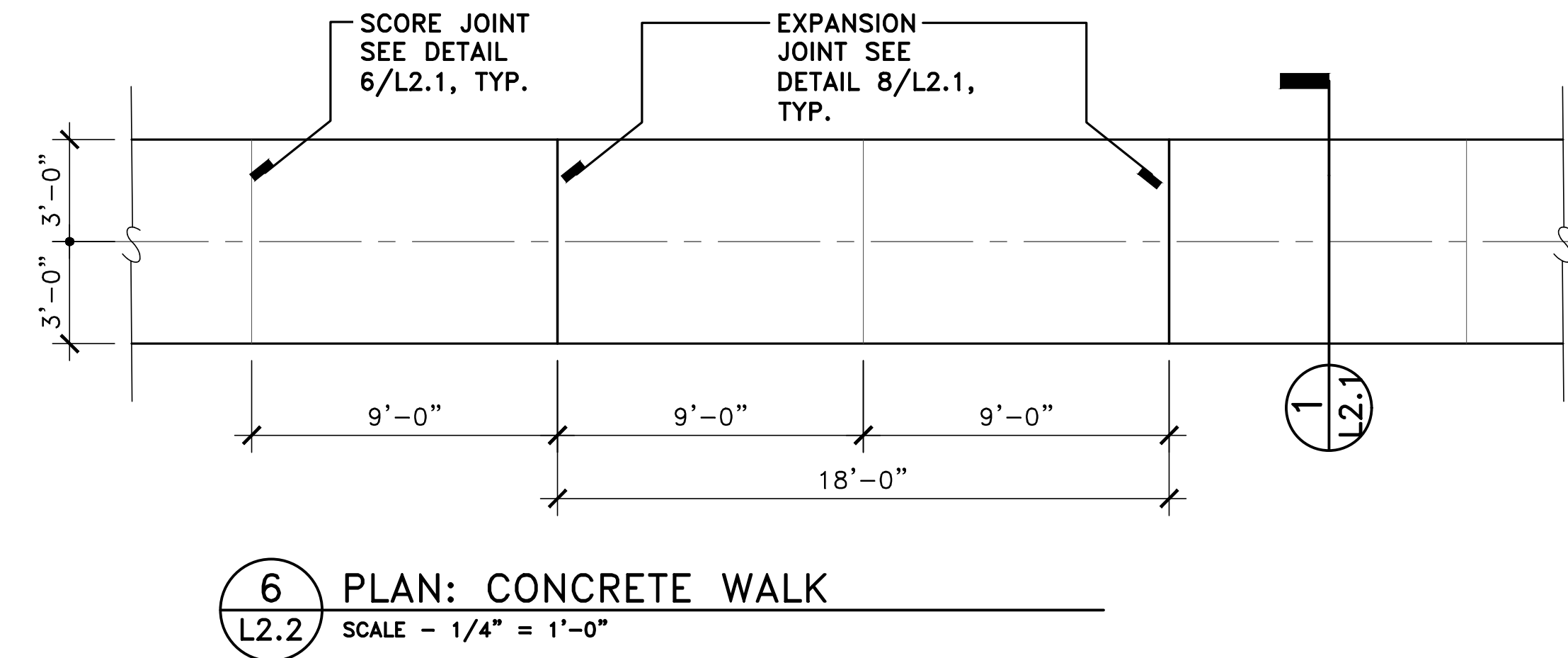
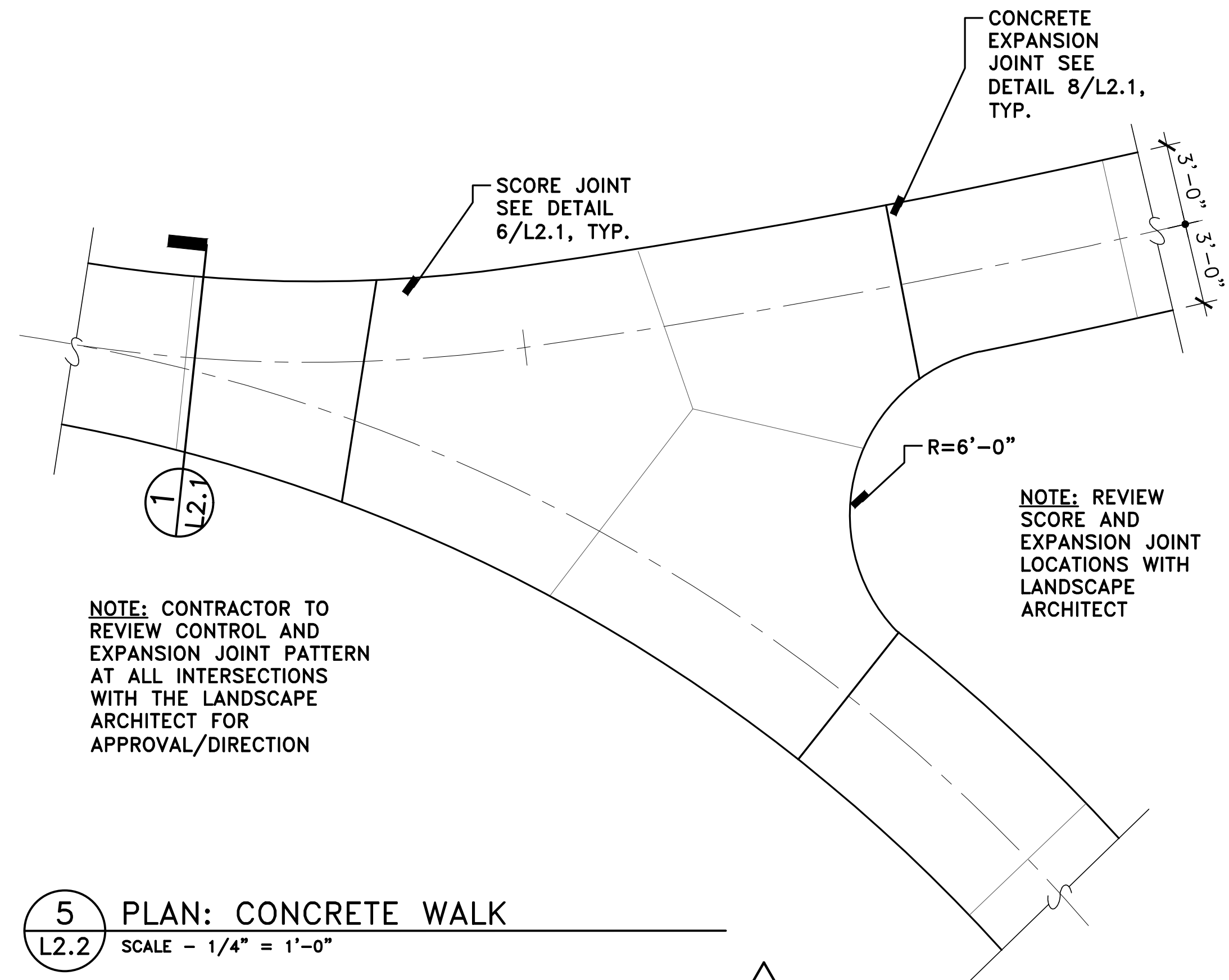
Date: 10 Mar. 2023

Sheet Title:

LANDSCAPE DETAILS

Drawing Number:

L-2.2



Pole-top luminaire - Asymmetric wide beam

Application: Pole-top luminaires with asymmetric wide beam light distribution. These luminaires are designed to illuminate roadways, squares, driveways and pedestrian areas.

Material: Optically textured UV-stabilized acrylic diffuser; Marine grade copper free (a 0.3% copper content) A360.0 aluminum alloy; Mechanically rolled stainless steel fasteners; Pure anodized aluminum reflector.

NRTL listed to North American Standards, suitable for wet locations. Protection class IP 65.

Weight: 27.6 lbs.

EPA (Effective projection area): 2.4 sq. ft.

Electrical: Operating voltage: 120-277VAC; Minimum start temperature: 23°C; LED module wattage: 23.0W; System wattage: 26.0W; Controllability: 0-10V dimmable; Color rendering index: Ra > 80; Luminaire lumens: 3550lm; LED service life (L70): 60000 hrs.

LED color temperature: 4000K (K4), 3500K (K3), 3000K (K1), 2700K (K27).

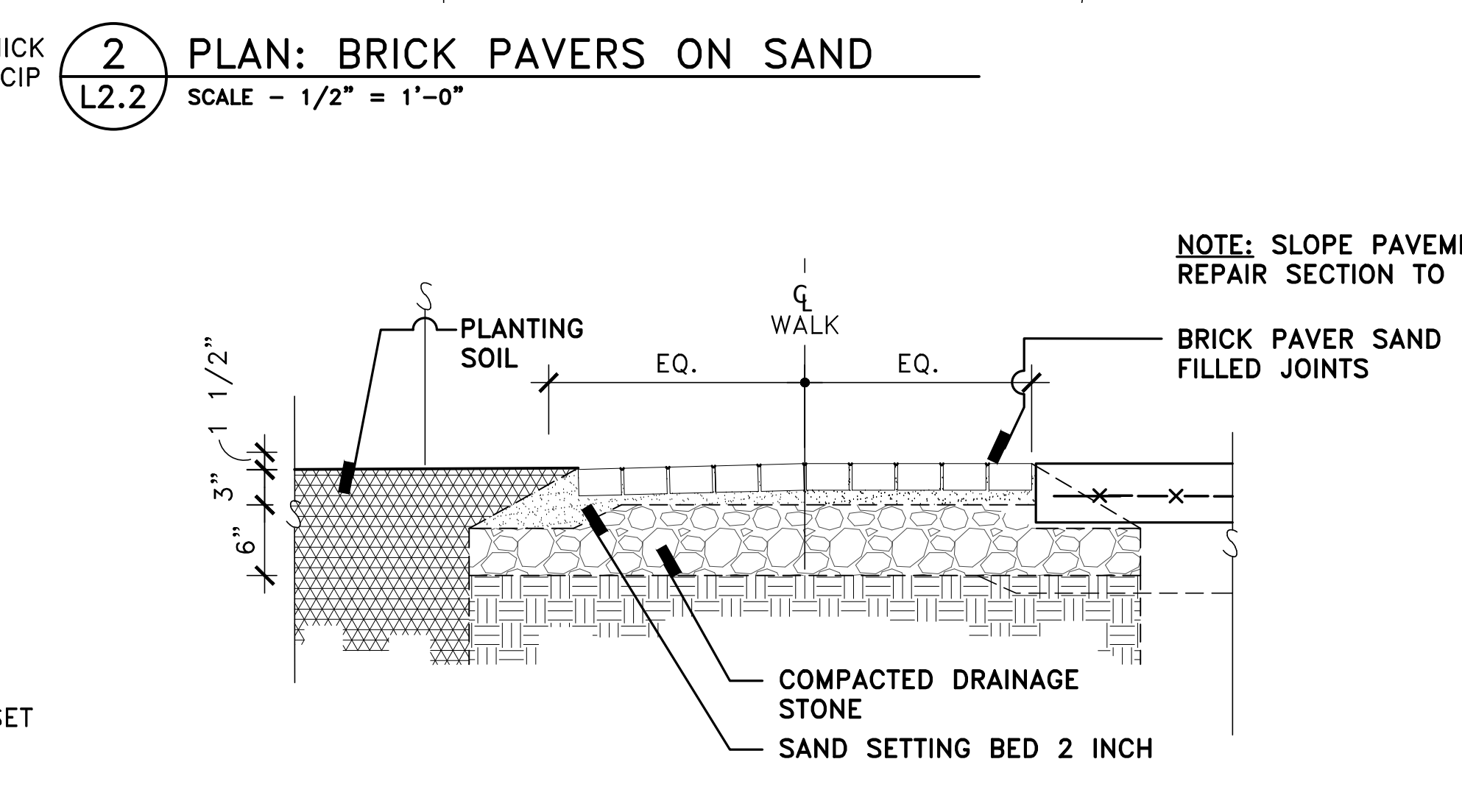
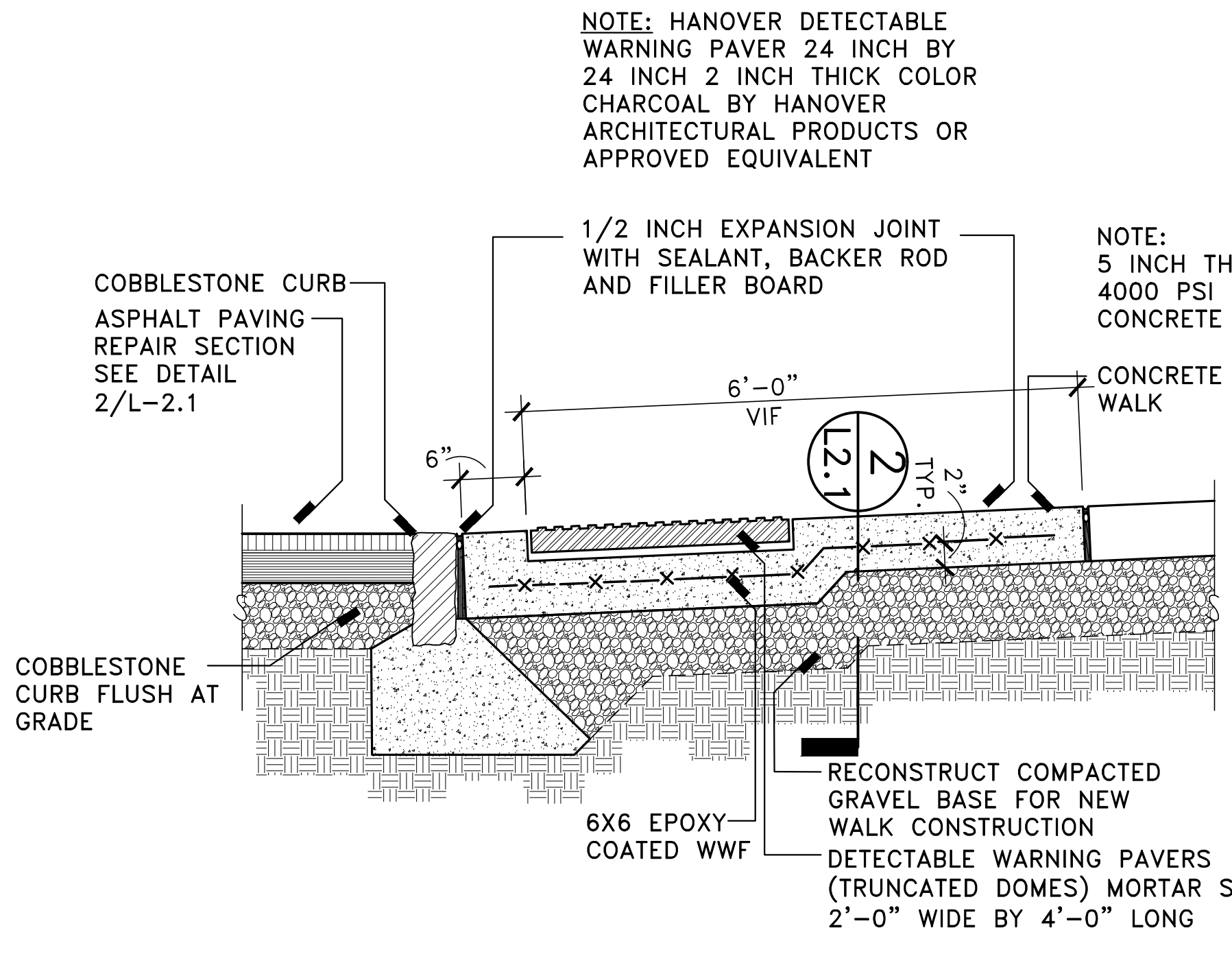
BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details.

Finish: All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA UnderCoat finish, a fluoropolymer technology, provides superior fade protection in Black, Bronze, and Silver. BEGA standard White is a super durable polyester powder. Optionally available RAL and custom color finishes provided in either polyester powder or liquid paint.

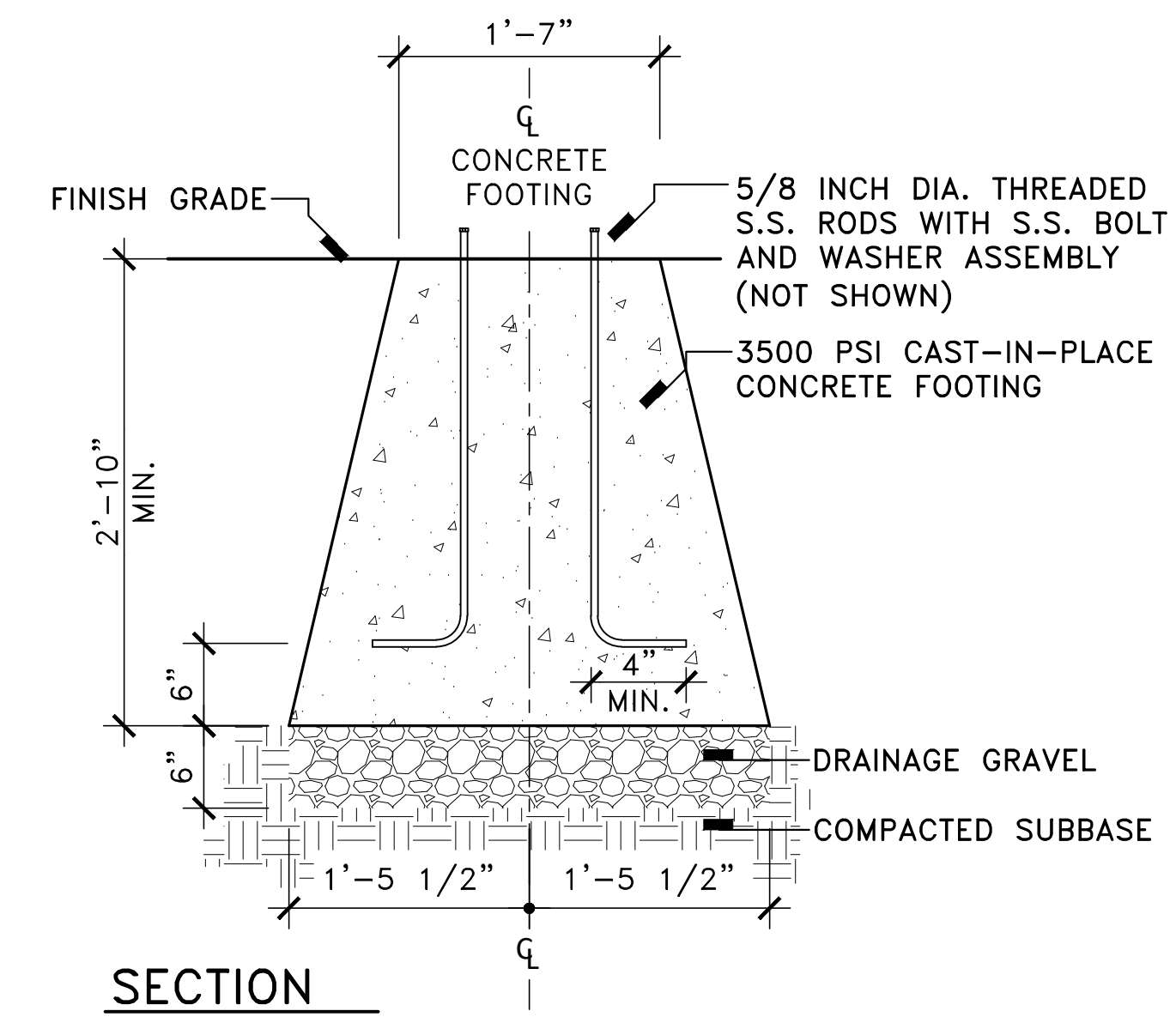
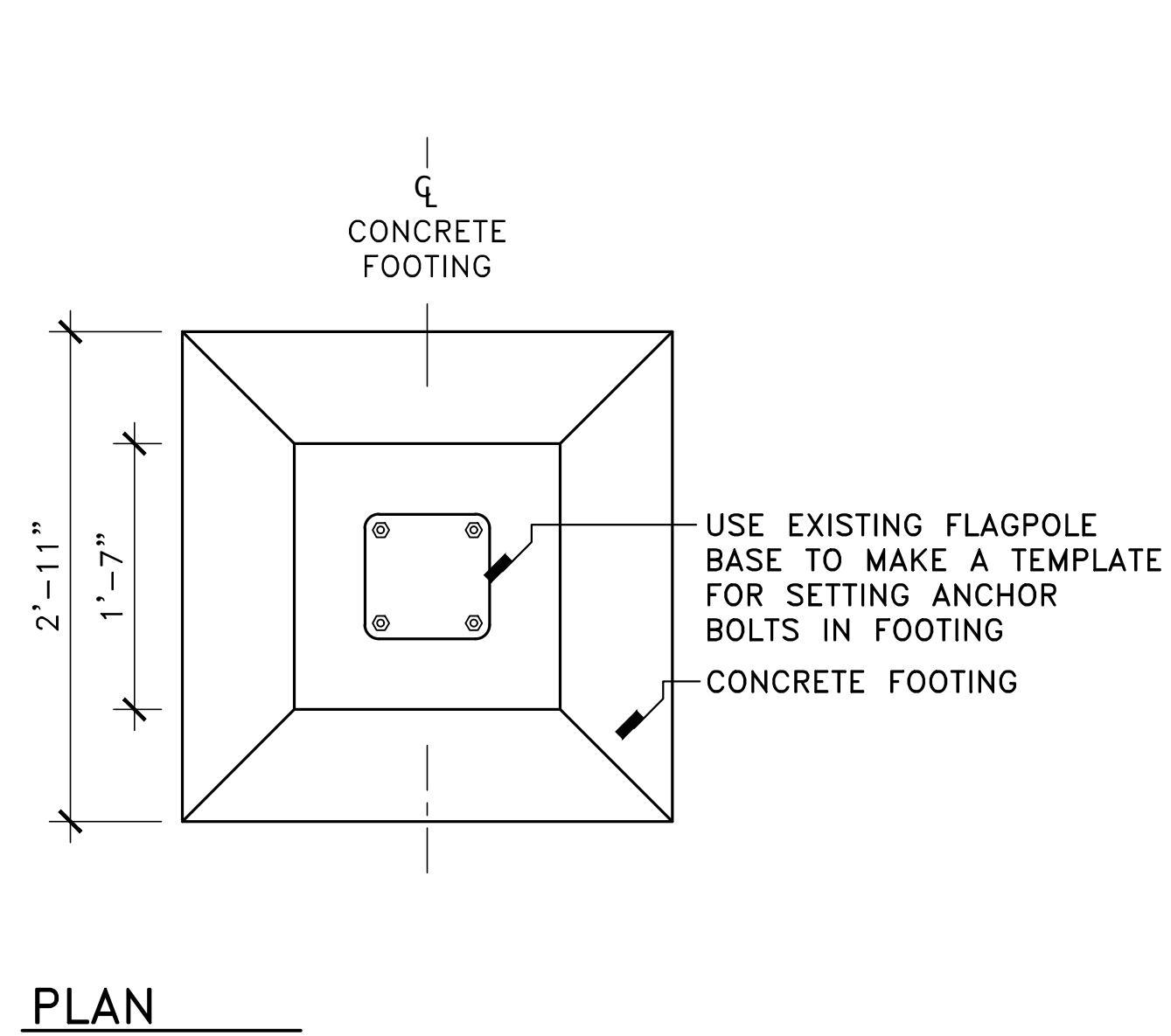
Available colors: Black (BLK), Silver (SLV), RAL, Bronze (BRZ), White (WHY), CUS.

Available options: CUS Custom finish, FSC Flung, MGU Marine grade undercoat, RAL RAL finish.

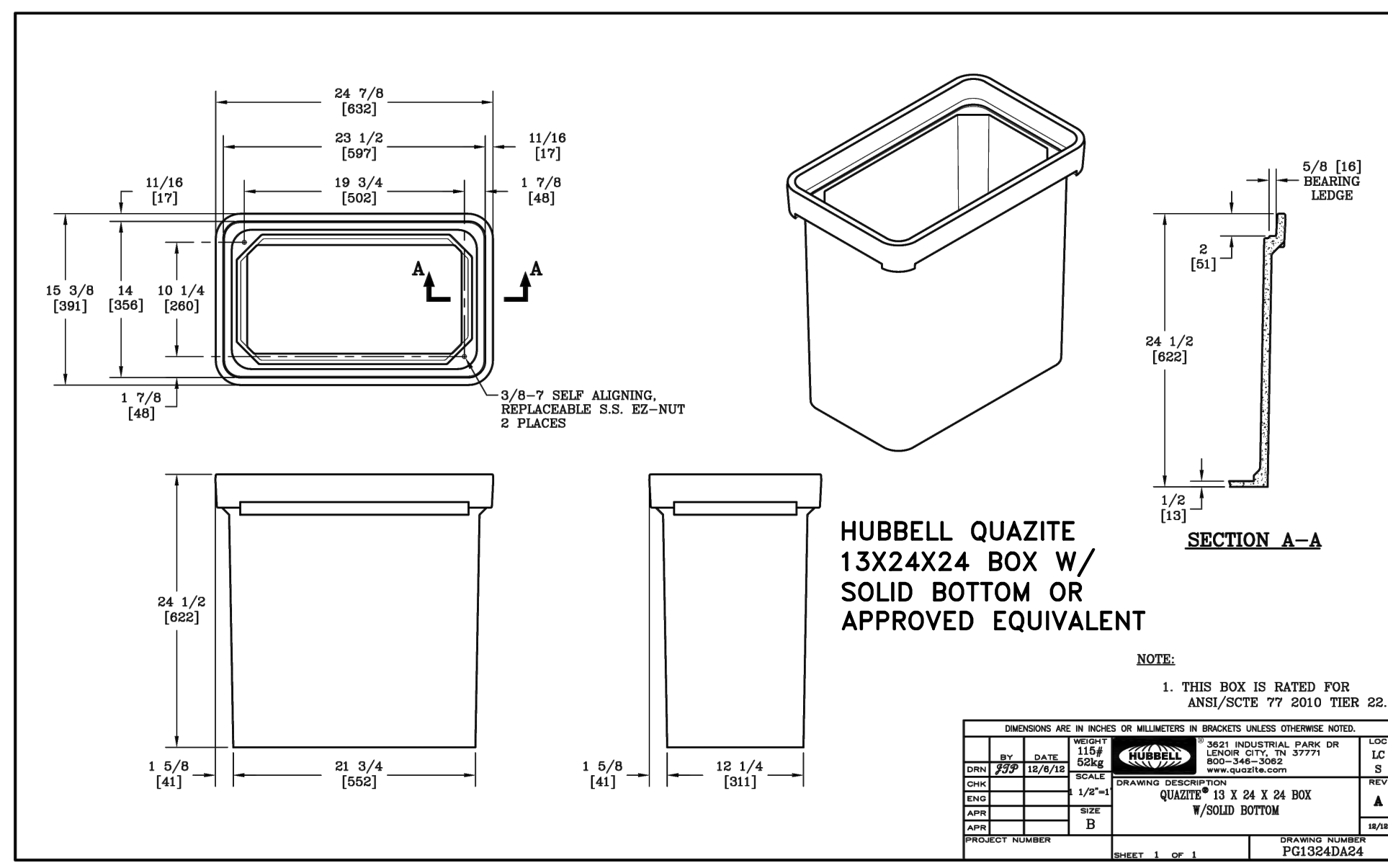
4 LIGHT FIXTURE
L2.2 SCALE - NTS



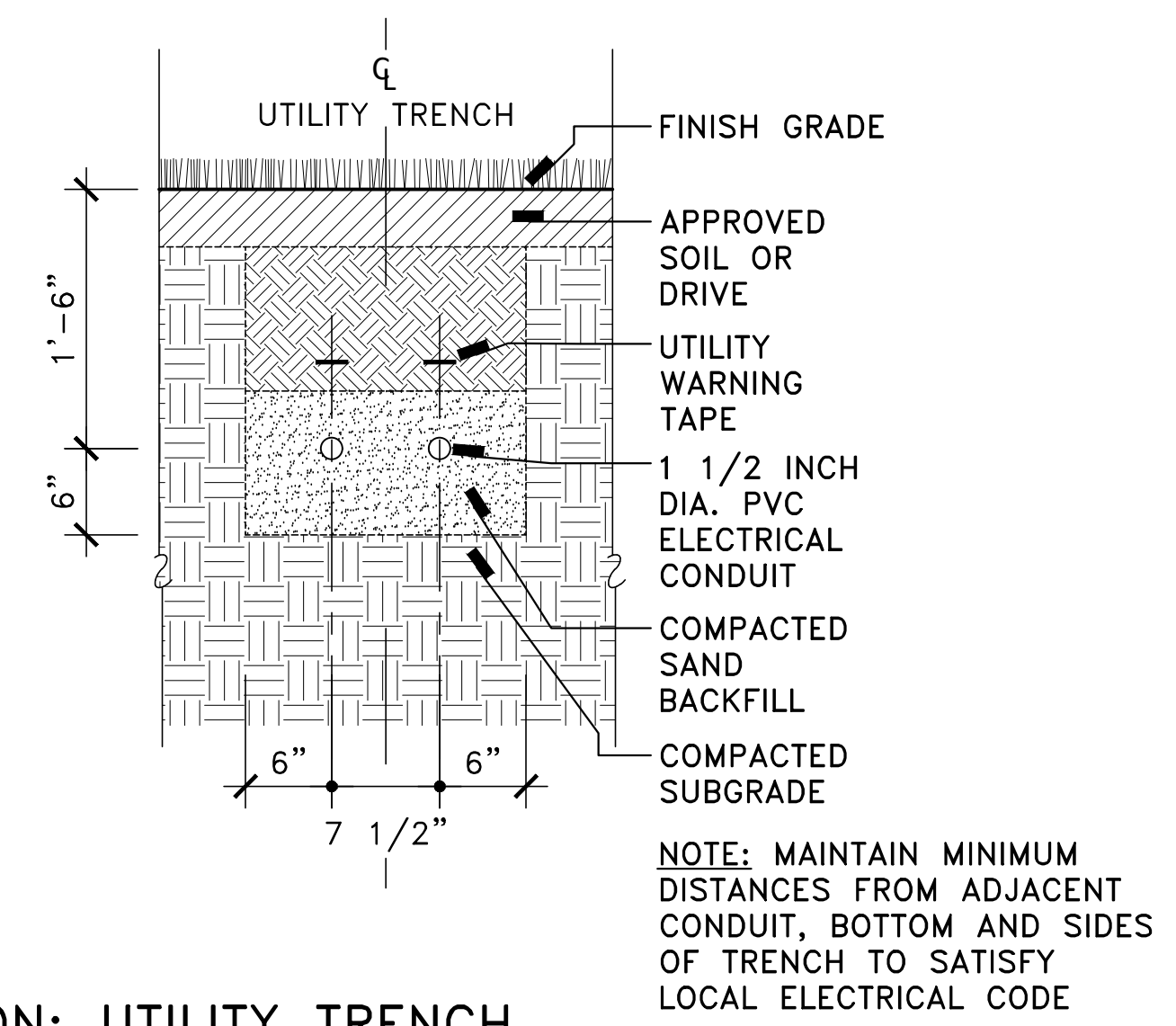
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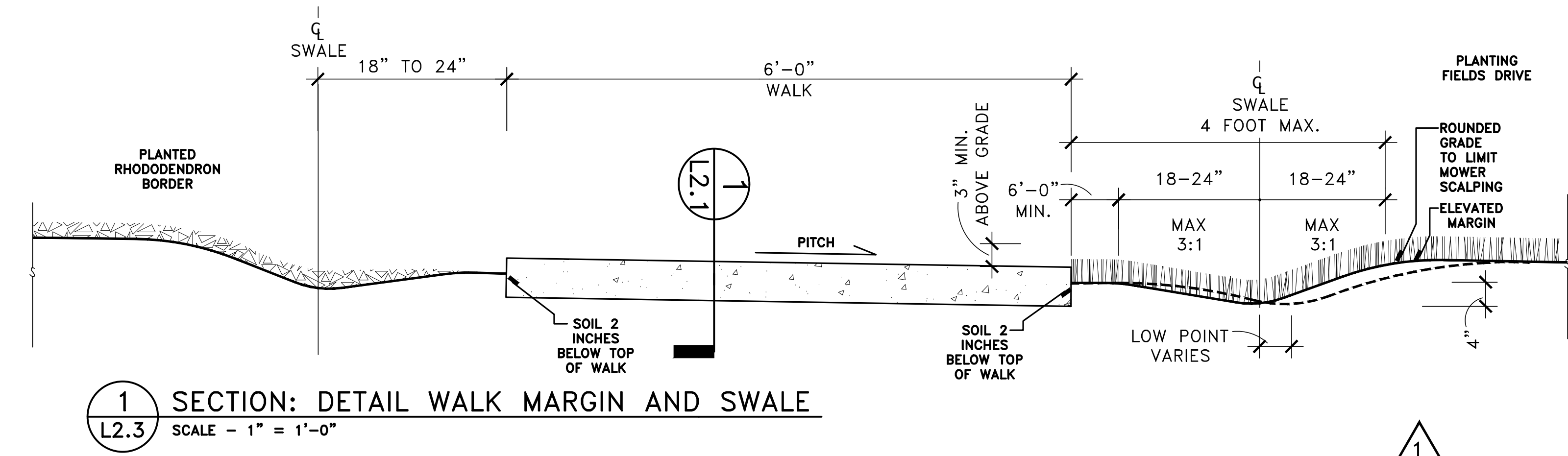
4 CONCRETE FOOTING FOR FLAGPOLE
L2.3 SCALE - 1" = 1'-0"



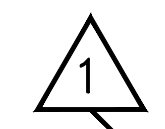
3 UTILITY PULL BOX
L2.3 SCALE - NTS



2 SECTION: UTILITY TRENCH
L2.3 SCALE - 1" = 1'-0"



1 SECTION: DETAIL WALK MARGIN AND SWALE
L2.3 SCALE - 1" = 1'-0"



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Sheet Title:

TREE PLANTING PLAN

Drawing Number:

L-3.1

SCHEDULE OF DECIDUOUS TREES

QTY	KEY	SCIENTIFIC NAME	COMMON NAME	SIZE	Notes
DECIDUOUS TREES:					
55	Qa	Quercus alba	White Oak	2.5 -3.0"	B&B
55	Qm	Quercus muehlenbergii	Chinkapin Oak	5.0-5.5"	B&B

SCHEDULE OF SEEDING

NO MOW TURF MIX

22.88%	Festuca commutata	Silhouette Chewing Fescue
22.48%	Festuca ovina	Quatro Sheep Fescue
8.50%	Festuca longifolia	SR3150 Hard Fescue
15.22%	Festuca brevipila	Sword Hard Fescue
23.18%	Festuca rubra	Rose City Creeping Red Fescue
7.74%	Lolium multiflorum	Annual Ryegrass

NOTES:

APPLY NO MOW TURF MIX AT NO LESS THAN 300 LBS/ACRE
ADD 12 LBS. PER ACRE: Lotus comiculatus/Bird's Foot Trefoil Seed to NO-MOW MIX

PLANTING NOTES:

1. PLANTING FIELDS FOUNDATION HAS FIELD TAGGED THE CHINKAPIN AND WHITE OAK TREES FROM ELHANNON NURSERY LOCATED IN HOOSICK FALLS NEW YORK. 110 TREES HAVE BEEN PURCHASED AND SHALL BE PLANTED AS PART OF THIS PROJECT. 95 OF THE TREES ARE LOCATED ON THESE PLANTING SHEETS WITH THE REMAINING TREES TO BE LOCATED WITHIN THE PLANTING FIELDS ARBORETUM AS DIRECTED BY THE LANDSCAPE ARCHITECT.
2. PLANTING WORK UNDER THIS CONTRACT IS TO COORDINATE WITH ELHANNON NURSERY FOR SHIPPING DATES AND UNLOADING BY THIS CONTRACTOR. TRANSIT/LOADING AND SHIPPING COSTS ARE BORN BY THE OWNER.
3. UNLOADING, STORING ON SITE, MAINTENANCE NOT LIMITED TO WATERING, ETC. SHALL BE PART OF THIS WORK
4. THE LANDSCAPE CONTRACTOR SHALL STAKE OUT THE TREES IN ADVANCE OF AND SCHEDULE A TIME TO REVIEW TREE LOCATIONS WITH THE LANDSCAPE ARCHITECT. THE LANDSCAPE CONTRACTOR SHALL ARRANGE FOR THEIR STAFF TO WORK WITH THE LANDSCAPE ARCHITECT IN ADJUSTING TREE LOCATIONS ON SITE AT LEAST ONE HALF DAY PRIOR TO BEGINNING PLANTING OPERATION.
5. PREPARATION, PROVISION OF SEED AND SEEDING OF NO-MOW TURF IS PART OF THIS CONTRACT WORK. THE PLANTING FIELDS FOUNDATION WILL ARRANGE TO HAVE THE EXISTING TURF TREATED WITH AN HERBICIDE IN ADVANCE OF SOIL PREPARATION AND SEEDING OPERATIONS.
6. AREAS OF TURF DISTURBED BY CONSTRUCTION OR AS OTHERWISE INDICATED SHALL BE RESTORED WITH MOWN TURF SEED MIX. SPECIES MIX SHALL BE DETERMINED BY THE THE PLANTING FIELDS ARBORETUM PARK MANGER.
7. CONTRACTOR IS TO SUBMIT BOTH CERTIFIED SEED MIXES FOR THE NO-MOW MIX AND TURF MIX TO THE LANDSCAPE ARCHITECT FOR APPROVAL

NOTES:
STAKE TREE WHEN DIRECTED BY THE LANDSCAPE ARCHITECT.
FORM 3 TO 5 INCH SAUCER AT BASE OF TREE EXCAVATION FOR RECEIPT OF WATER.

3/4" REINFORCED RUBBER FRICTION GUARD (BLACK)

TWO STRANDS OF #12 GAUGE GALV. STEEL WIRE
WOODSTAKES, 3" MIN. DIA. NOTCHED FOR WIRE. USE 3 STAKES FOR TREES ABOVE 5" CAL.

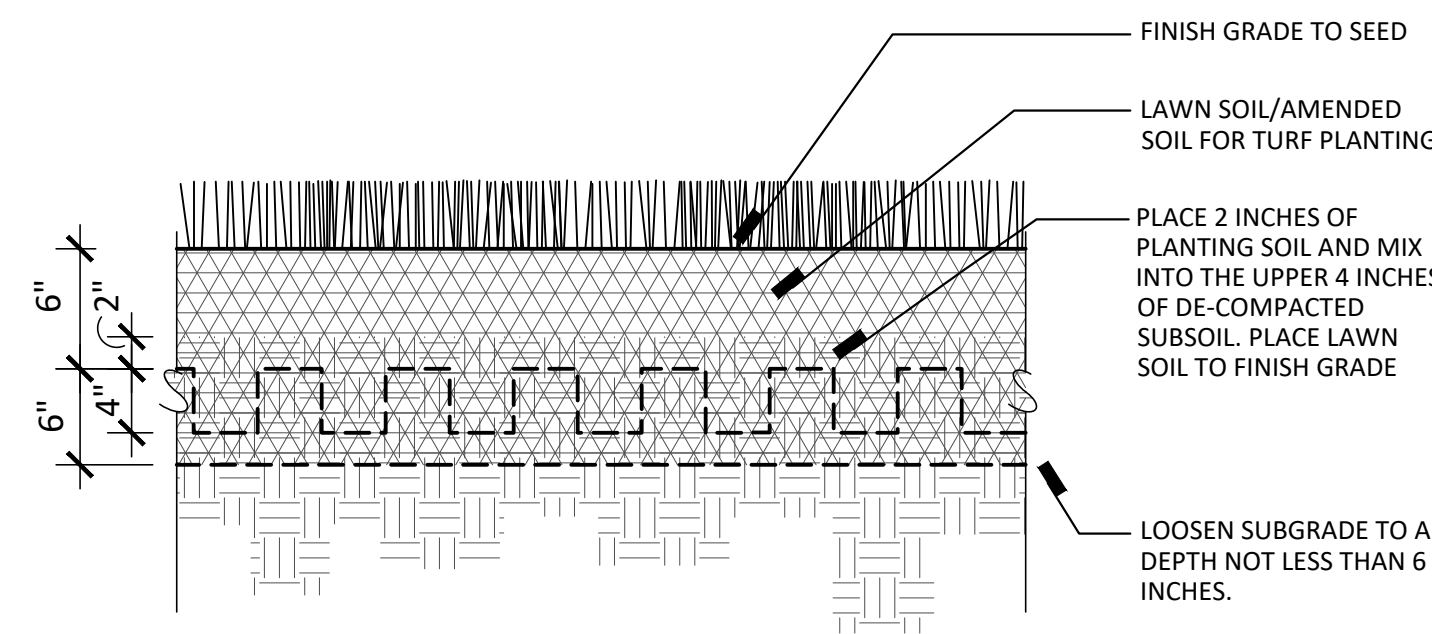
UNDISTURBED SUBSOIL

60 INCHES SQUARE MINIMUM BUT NOT LESS THAN TWICE ROOT BALL DIA.

NOTES:
TREE LOCATIONS TO BE STAKED ON SITE AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
REMOVE ALL WIRE, PLASTIC AND TAGS FROM TREE AND ROOT BALL.
SET ROOT BALL FLARES (CROWN) 1 TO 2 INCHES ABOVE FINSH GRADE UNLESS OTHERWISE DIRECTED.
REMOVE WIRE BASKET, BURLAP FROM THE TOP 2/3 OF ROOT BALL MIN. CUT AWAY WIRE FROM BELOW ROOT BALL.

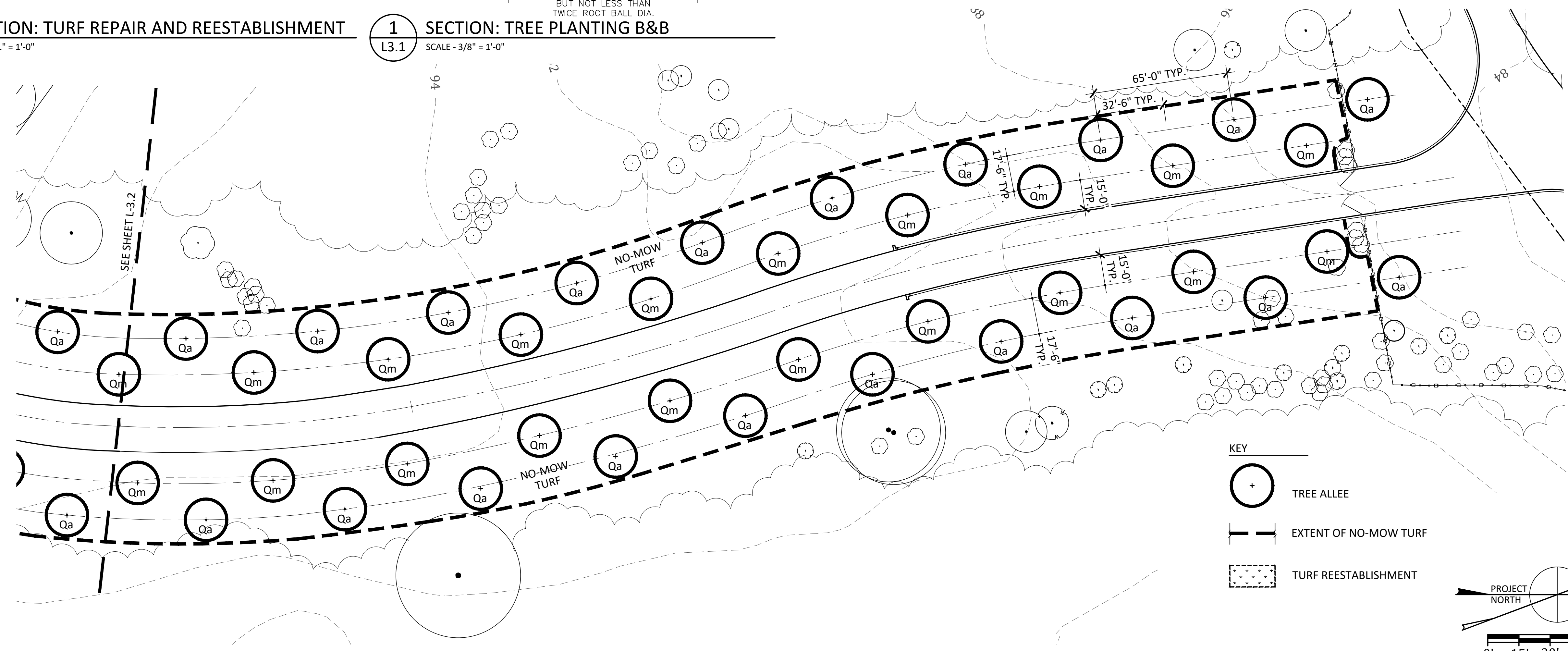
ALIGN TREE IN CENTER OF PLANTING EXCAVATION
TREE TRUNK PROTECTION GUARD
ADD 3 INCHES OF APPROVED MULCH- DO NOT PILE AGAINST TREE TRUNK
PLANT TREE WITH CROWN AT 1 TO 2 INCHES ABOVE FINISH GRADE UNLESS OTHERWISE DIRECTED
TREE PLANTING SOIL, MIX OF APPROVED TOPSOIL, ORGANIC MATERIAL AND EXISTING EXCAVATED SOIL

MACHINE RAKE SUBGRADE TO A 4 INCH DEPTH AND MIX WITH TREE PLANTING SOIL AND TAMP BEFORE PLACEMENT OF TREE AND BACKFILL PLANTING SOIL



2 SECTION: TURF REPAIR AND REESTABLISHMENT
L3.1 SCALE - 1" = 1'-0"

1 SECTION: TREE PLANTING B&B
L3.1 SCALE - 3/8" = 1'-0"



KEY

- (+ in circle) TREE ALLEE
- (---) EXTENT OF NO-MOW TURF
- (---) TURF REESTABLISHMENT

PROJECT NORTH

0' 15' 30' 60'

SOURCES
FLONHS, July 1918 Field Notes,
File: 06645-17_34350123045_o

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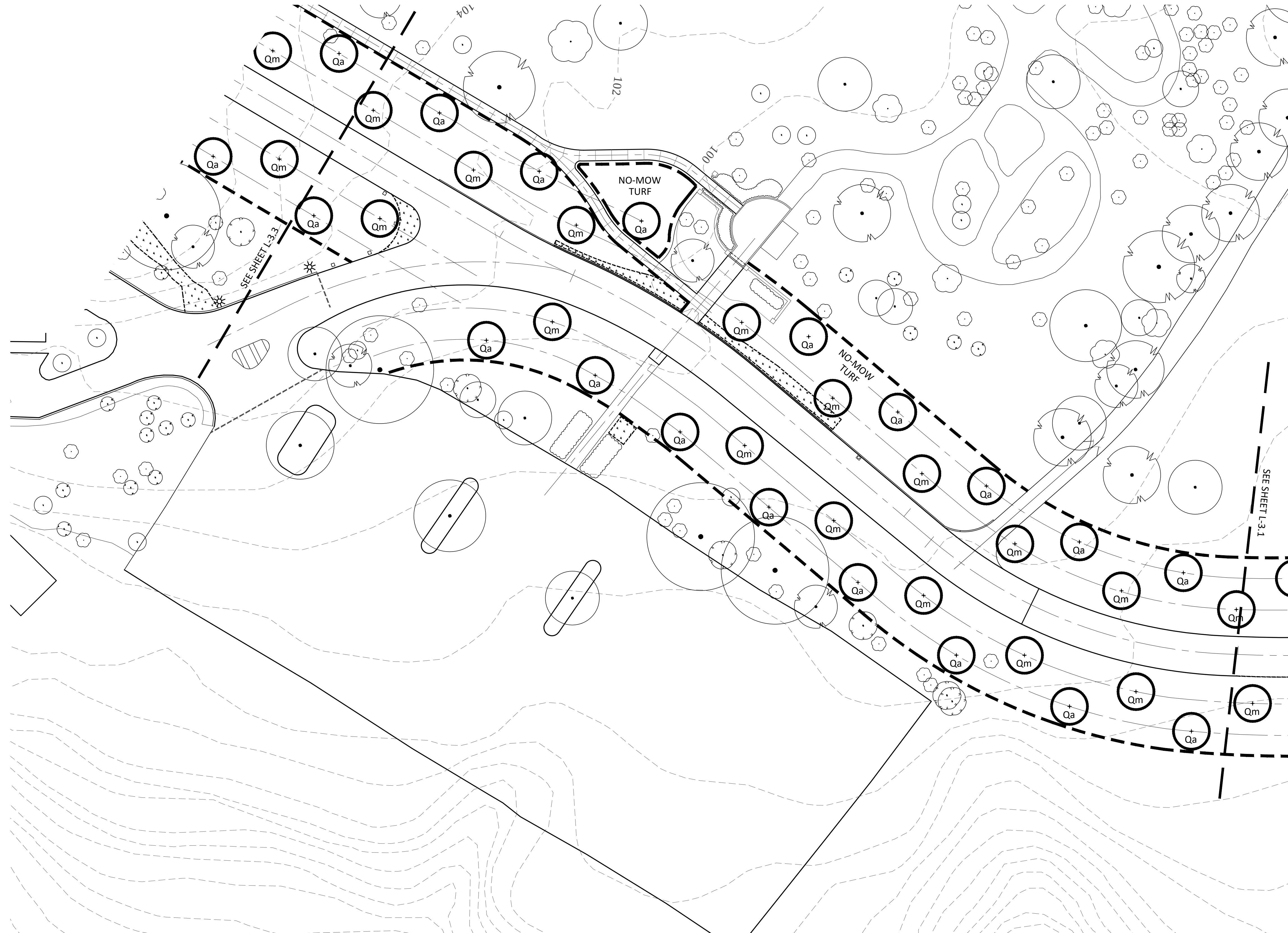
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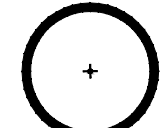


TREE PLANTING PLAN

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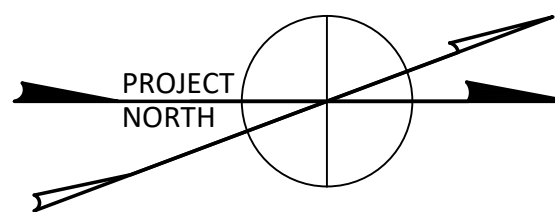
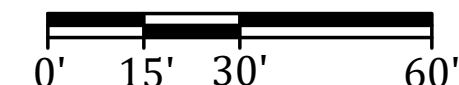
L-3.2



KEY

-  TREE ALLEE
-  EXTENT OF NO-MOW TURF
-  TURF REESTABLISHMENT

PROJECT NORTH

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TREE PLANTING PLAN

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L-3.3

