

**BRISTOL TOWNSHIP – MARIE LOWE DRIVE COMMUNITY CENTER – PUBLIC IMPROVEMENTS
CONTRACT 2021-07025**

BID ADDENDUM #2 – July 10, 2023

1. Sec 01 22 00 – Measurement and Payment: Item 3.01.16 (18" Concrete Curb) has been updated to clarify that sawcut and concrete replacement is the responsibility of the Contractor.
2. Sec 01 22 00 – Measurement and Payment: Item 3.01.23 (Wooden Guard Rail) has been added to the contract. The bid form has also been updated accordingly, and a detail for the Wooden Guard Rail has been added to sheet 10 of the Site Plans. The updated version of the Site Plan can be found in the Addendum #2 folder on Pennbid. Additionally, the quantities for items 3.01.22 (6' Shadow Box Fence Enclosure) and 3.01.23 (Wooden Guard Rail) have been updated on the bid form.
3. Sec 01 22 00 – Measurement and Payment: Item 3.01.35 (Building Renovations) has been updated to reflect that the installation of the kitchen hood shall be the responsibility of the Site Contractor, not the Plumbing Contractor as previously specified in Note #1 of Addendum #1. Electrical and Plumbing Contractors shall still be responsible for installing electrical/plumbing connections to the hood, as needed.
4. Sec 01 22 00 – Measurement and Payment: Item 3.03.2 (Installation of Interior Plumbing Facilities) has been updated to include the locating of and connection to the existing sanitary sewer lateral. In addition, Section 3.03.2 has been updated to clarify that any concrete sawcut and restoration in the interior of the building required to install plumbing facilities and connect to the existing sanitary sewer system shall be the responsibility of the Plumbing Contractor.
5. Sec 01 22 00 – Measurement and Payment: Item 3.04.7 (Roadway Restoration) has been added to clarify that all Roadway Restoration necessary shall be incidental to the curb/sidewalk work.
6. Doc 00 73 00_08 – Appendix D: Prevailing Wage Rates has been added to the contract documents and can be found in the Addendum #2 folder on Pennbid.
7. Sec 32 31 19 – Ornamental Fences and Gates has been removed from the contract documents. A steel picket fence should be installed in the locations specified on the plans in accordance with the detail shown on page 10 of the site plans.
8. Barron Designs Faux Panels specification has been added to the Addendum #2 folder. In addition, Brick is also a panel system by Baron Designs. Vertical vinyl siding is an or equal and can be Wolverine, Certainteed, Georgia Pacific, Plygem or equal.
9. Technical specification for the proposed walk off mat has been provided in the Addendum #2 folder. An "or equal" item from the following manufacturers may also be provided as a submittal for approval: Mohaw, Shaw, Mannington.

Bidders are required to acknowledge the receipt of Bid Addendum #2 by signing and including this form their bid package. Please acknowledge the receipt of Bid Addendum #2 by signing and uploading with your bid to the PennBid website.

Signed _____

Printed _____

Title _____

Company Name _____

SECTION 01 22 00

MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Measurement and payment criteria applicable to the Work performed under a Unit Price payment method.

1.02 PROCEDURE

- A. All measurements for payment will be based on completed work, performed in accordance with the Drawings and Project Manual, and with the Agreement's "Schedule of Bid Items".
- B. The Resident Project Representative shall take all measurements and compute quantities relative to all work completed under the Agreement in accordance with the methods included in this section. Contractor shall assist by providing necessary equipment and personnel as required.
- C. In cases where the payment clause for an item in this section relating to the lump sum price requires that the said unit or lump sum price cover and be considered compensation for certain work or material essential to the item, this same work or material shall not be measured or paid for under any other item which may appear elsewhere in this section.

PART 2 - PRODUCTS

Not Used

PART 3 - EXECUTION

3.01 CONTRACT 21-07025-01: GENERAL CONTRACT

1. MOBILIZATION

A. Measurement

Measurement for this work is lump sum and constitutes furnishing all materials and equipment necessary to complete the work associated with this contract. This item also includes providing a Work in accordance with:

Section 01 29 00 – Contract Considerations
Section 01 31 00 – Coordination and Meetings
Section 01 33 00 – Submittals
Section 01 40 00 – Quality Control
Section 01 50 00 – Temporary Facilities and Controls
Section 01 56 39 – Landscape Protection
Section 01 60 00 – Material and Equipment
Section 01 70 00 – Contract Closeout

B. Payment

Payment for this item shall be made at the contract unit price as determined in the Bid Schedule. One half (50%) of the contract lump sum amount for this item will be paid with the first payment application. The remaining 50% will be paid upon

MEASUREMENT AND PAYMENT

satisfactorily completing 50% of the total original contract amount. This is a lump sum item for the entire contract. No additional payments for Mobilization will be paid as part of the Contract Work. Mobilization shall be performed and payment will be made in accordance to Section 01 71 13 "Mobilization" of the contract.

2. DEMOLITION

A. Measurement

Measurement of demolition of existing paving, stone, concrete, bollards, gates, etc., will be as Lump Sum per the drawings, details and specification Section 02 41 16.

B. Payment

Payment for the demolition of existing paving, stone, concrete, bollards, gates, etc., shall be made at the contract unit price for this item. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for preparation, maintenance, and removal of existing paving, stone, signs, gate, light poles, concrete, etc. as shown on the drawings. Any partial removal not to the correct depth or incomplete areas will be the responsibility of the Contractor to remove at no additional cost to the Owner.

3. CLEARING & GRUBBING

A. Measurement

Measurement for Clearing and Grubbing of the site will be Lump Sum per the drawings, details, and specifications Section 31 11 00.

B. Payment

Payment for the Clearing & Grubbing shall be made as part of the Lump Sum cost bid for this item. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for preparation, maintenance, and removal of vegetation, trees, stumps, roots, debris, and topsoil in accordance with PennDOT Pub. 408 specifications section 201 and 810. Any partial removal not to the correct depth or incomplete areas will be the responsibility of the Contractor to remove at no additional cost to the Owner.

4. TEMPORARY SEEDING

A. Measurement

Measurement for seeding will be Lump Sum per the Drawings, details, and specifications.

B. Payment

Payment for the installation of seeding shall be made as part of the Lump Sum cost bid for this item. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for installation and maintenance, of temporary seeding, including any hay matting as necessary. Any repairs, replacement, or reinstallation will be the responsibility of the Contractor at no additional cost to the Owner, including Contractor's maintenance of seeding to the satisfaction of the Bucks County Conservation District throughout the project duration.

5. SILT SOCK

A. Measurement

Measurement of soil erosion and sediment control Silt Sock will be as determined in the field per linear foot placed, maintained, and removed per the drawings, details and PADOT Publication 408-866 specifications.

B. Payment

Payment for the installation, maintenance, and removal of soil erosion and sediment control Silt Sock shall be made at the contract unit price for this item. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for installation, maintenance, and removal. Any repairs, replacement, or reinstallation will be the responsibility of the Contractor at no additional cost to the Owner, including Contractor's maintenance of Silt Sock to the satisfaction of the Bucks County Conservation District throughout the project duration.

6. ROCK CONSTRUCTION ENTRANCE

A. Measurement

Measurement for the Rock Construction Entrance will be Each per the Project Manual and Drawings.

B. Payment

Payment for the stone construction entrance will be made at the applicable unit price listed in the Bid Schedule. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment required to install, maintain, and remove the rock construction entrances as more fully defined elsewhere in the Project Manual and/or on the Drawings.

7. TREE PROTECTION FENCE

A. Measurement

Measurement of this item will be based on the actual linear feet of tree protection fence installed, maintained, and removed in accordance with the Project Manual and Drawings. Measurement for the length will be taken along the centerline of the fence. Appurtenances, fittings and access gates will not be measured and paid for separately.

B. Payment

Payment for Tree Protection Fence shall be made at the contract unit price for this item. This price and payment shall constitute full compensation for furnishing all labor, materials and equipment necessary for furnishing and installing, maintaining, and removal of the Tree Protection Fence as shown on the Drawings.

8. LOD CONSTRUCTION SAFETY FENCING

A. Measurement

Measurement of this item will be lump sum for the 6' high chain link construction fence installed, maintained, and removed in accordance with the Project Manual and Drawings. Measurement for the length will be taken along the centerline of the fence. Appurtenances, fittings and access gates will not be measured and paid for separately.

B. Payment

Payment for construction fencing shall be made as part of the Lump Sum cost bid for this item. This price and payment shall constitute full compensation for furnishing all labor, materials and equipment necessary for furnishing and installing, maintaining, and removal of the 6' high chain link construction fencing as shown on the Drawings.

9. INLET PROTECTION

A. Measurement

Measurement for this item shall be as determined in the field for each Siltsack Inlet Protection installed, maintained and removed for Type 'M' & 'C' Inlets as indicated on the drawings.

B. Payment

Payment for Siltsack Inlet Protection shall be made at the contract unit price as listed in the Bid Schedule. 50% will be paid upon installation. 50% will be paid upon removal. This price shall constitute full compensation for the furnishing of all labor, materials, equipment, mobilization, and maintenance and protection of traffic necessary for the proper installation, maintenance, and removal of the inlet protection. Contractor shall install Siltsack Inlet Protection at locations indicated on the Drawings. Siltsack Inlet Protection shall remain in place until site stabilization has been achieved as determined by the Bucks County Conservation District and/or Engineer as required. Any repairs or reinstallation will be the responsibility of the contractor at no additional cost to the owner.

10. EARTHWORK

A. Measurement

Measurement for Earthwork will be Lump Sum per the Drawings, details, and specifications, and shall include stripping of topsoil, stockpiling, rough grading, fine grading, respreading a minimum of 6" stockpiled topsoil, and disposing of unsuitable material.

B. Payment

Payment for this item shall be made at the applicable unit price listed in the Bid Schedule. This price and payment will constitute full compensation for furnishing all labor, materials, equipment, and maintenance necessary for stripping of topsoil, stockpiling, rough grading, fine grading, respreading a minimum of 6" stockpiled topsoil, and disposal of unsuitable material as needed. This price shall include all other related work necessary to complete rough and fine grading, including import of fill or export of cut as necessary, as more fully defined elsewhere in the Project Manual and/or shown on the Drawings. Any repairs, replacement, or reinstallation will be the responsibility of the Contractor at no additional cost to the Owner, including Contractor's maintenance of the topsoil stockpile to the satisfaction of the Bucks County Conservation District throughout the project duration.

11. 1.5" 9.5MM SUPERPAVE WEARING COURSE

A. Measurement

Measurement for 1.5" 9.5 MM Superpave Wearing Course will be as determined in the field per Square Yard of wearing course installed. Superpave wearing course shall be a compacted thickness of 1.5" of 9.5 mm Superpave, PG 64-22, 0.3 to 3 million ESALs, SRL-H min., refer to project manual SECTION 32 12 00.

B. Payment

Payment for the 1.5" 9.5 MM Superpave Wearing Course shall be made at the contract unit price for this item. This price shall constitute full payment for furnishing all labor, materials, equipment, and traffic control necessary for the site pavement. The work bid for consists of all labor, equipment and materials to install wearing course for the trails and parking lots. Any temporary paving installed per SECTION 32 12 23 to maintain access shall be incidental to this pay item. Wearing Course shall be in accordance with the latest editions of PennDOT Publication 408, Section 410& 413. Asphalt materials shall be based on PennDOT's **June 2023 Asphalt Cement Price Index. Any walkways and ADA parking areas must meet ADA accessibility guidelines.**

12. 2.5" 12.5MM SUPERPAVE BASE COURSE

A. Measurement

Measurement for 2.5" 12.5 MM Superpave Base Course will be as determined in the field per Square Yard of base course installed. Superpave Base Course shall be a compacted thickness of 2.5" of 12.5 mm Superpave, PG 64-22, 0.3 to 3 million ESALs, SRL-H min., refer to project manual SECTION 32 12 00.

B. Payment

Payment for the 2.5" 12.5 MM Superpave Base Course shall be made at the contract unit price for this item. This price shall constitute full payment for furnishing all labor, materials, equipment, and traffic control necessary for the site pavement. The work bid for consists of all labor, equipment and materials to install base course for the trails. Any temporary paving installed per SECTION 32 12 23 to maintain access shall be incidental to this pay item. Base Course shall be in accordance with the latest editions of PennDOT Publication 408, Section 313 & 316. Asphalt materials shall be based on PennDOT's **June 2023 Asphalt Cement Price Index. Any walkways and ADA parking areas must meet ADA accessibility guidelines.**

13. 6" PENNDOT 2A COARSE AGGREGATE

A. Measurement

Measurement for PennDOT 2A Coarse Aggregate will be as determined in the field per Square Yard of PennDOT 2A Coarse Aggregate placed for the asphalt trails and parking lot.

B. Payment

Payment for the PennDOT 2A Coarse Aggregate shall be made at the contract unit

price for this item. The work bid consists of all labor, equipment, materials and maintenance and protection of traffic necessary to install the stone subbase material for new paving, including removal and disposal of existing unsuitable material in areas designated by the Owner, and installation of geofabric. All PennDOT 2A Coarse Aggregate shall be in accordance with the latest edition of PennDOT Publication 408, Section 703 and Project Manual Section 32 12 23. Work associated with this item that requires EXCAVATION, BACKFILL AND COMPACTION per SECTION 31 23 33 shall be incidental to this pay item.

14. TRAFFIC SIGNAGE AND PAVEMENT MARKINGS

A. Measurement

Measurement of this item will be based at the Lump Sum price for all items required for the pavement markings to be installed as shown on the Drawings.

B. Payment

Payment for the installation of the parking lot pavement markings shall be made at the contract unit price listed in the Bid Schedule. This price and payment will constitute full compensation for furnishing all labor, materials, equipment, accommodation of traffic as necessary for the installment of traffic paint for the handicap symbols, parking stall lines, and gore striping, and all work intended and incidental thereto as more fully defined elsewhere in the Project Manual and/or on the Drawings. Payment for TRAFFIC SIGNS shall be made at the contract unit price for this item. This price and payment shall constitute full compensation for furnishing all labor, materials and equipment necessary for furnishing and installing the flat sheet signs on breakaway steel posts as shown on the Drawings. This includes, but is not limited to, the flat sheet sign, anchors, breakaway steel post, bolts, nuts, and all other miscellaneous anchoring devices required in accordance with the latest edition of PennDOT Publication 408, Section 931, Section 10 14 53 of Project Manual, and recommended by the manufacturer.

15. ADA/PENNDOT COMPLIANT TRUNCATED DOMES

A. Measurement

Measurement for this item shall be as determined in the field for each ADA/PennDOT Compliant Truncated Domes placed as shown on the Drawings.

B. Payment

Payment for the ADA/PennDOT Compliant Truncated Domes shall be made at the contract unit price listed in the Bid Schedule. This price shall constitute full payment for providing and furnishing all labor, materials, equipment, and traffic control necessary for the installation of ADA Compliant Truncated Domes. Demolition and hauling of existing concrete, restoration of existing features, excavation, placement of stone base, vertical adjustment of existing valves to finish grade, and adjustments to the concrete portions of the curb ramps required for the proper installation of the truncated domes shall be included in the unit price bid for this item. The detectable warning surfaces shall extend the entire width of the curb ramp, perpendicular to the direction of travel. Truncated domes shall be a colonial red embedded cast-in-place detectable warning surface and as specified in the Contract Documents. ADA Compliant Truncated Domes shall be in accordance with the latest editions of PennDOT Publication 408, Section 695 and Publication 72, RC-67. **No separate pay item shall be made for any adjustments to the concrete portions of the ramps required for the proper installation of the truncated domes.**

16. 18" CONCRETE CURB

A. Measurement

Measurement for this item shall be as determined in the field per linear feet of 18" Vertical/Depressed Concrete Curb installed. Vertical/Depressed Concrete Curb shall be constructed of 3,500 PSI, air-entrained concrete cement.

B. Payment

Payment for the installation of 18" Vertical/Depressed Concrete Curb shall be made at the contract unit price as listed in the Bid Schedule. This price and payment will constitute full compensation for furnishing all labor, materials, equipment, traffic control, roadway, stone, sealant, and lawn restoration necessary to install 18" Vertical/Depressed Concrete Curb. Contractor shall set up formwork, place and install 18" Vertical/Depressed Concrete Curb as shown on the drawings. Depressed curb at ADA/PennDOT complaint ramps shall be constructed in accordance with the drawings. There should be a **6" reveal** in all parking lots. **Contractor shall apply Aquaron 2000 Cure and Seal immediately upon the removal of the formwork.** Curb line sealing is incidental to the installation of all curb and asphalt. Sawcut and concrete replacement shall also be the responsibility of the contractor. All concrete work shall be in accordance with the latest editions of PennDOT Publication 408, and Publication 72, RC-64, and RC-67. Contractor is responsible for verifying that the final grades, slopes and dimensions are in compliance with the above publications.

17. 4" CONCRETE PAVING

A. Measurement

Measurement for this item shall be as determined in the field per square foot of 4" Concrete Paving installed. 4" Concrete Paving shall be constructed of 3,500 PSI, air-entrained concrete cement over 6" #57 stone.

B. Payment

Payment for the installation of 4" Concrete Paving shall be made at the contract unit price as listed in the Bid Schedule. This price and payment will constitute full compensation for furnishing all labor, materials, equipment, traffic control, roadway, stone, sealant, and lawn restoration necessary to install all proposed sidewalk, plaza, and concrete pad under the proposed shade sail using 4" Concrete Paving. Contractor shall set up formwork, place and install 4" Concrete Paving as shown on the drawings. All concrete work shall be in accordance with the latest editions of PennDOT Publication 408, and Publication 72, RC-64, and RC-67. Contractor is responsible for verifying that the final grades, slopes and dimensions are in compliance with the above publications.

18. 6" CONCRETE DRIVEWAY APRON

A. Measurement

Measurement for this item shall be as determined in the field per square feet of 6" Concrete Driveway Apron installed. 6" Concrete Driveway Apron shall be constructed of 3,500 PSI, air-entrained concrete cement over 6" #57 stone.

B. Payment

Payment for the installation of 6" Concrete Driveway Apron shall be made at the contract unit price as listed in the Bid Schedule. This price and payment will constitute full compensation for furnishing all labor, materials, equipment, traffic control, roadway, stone, sealant, and lawn restoration necessary to install 6" Concrete Slab. Contractor shall set up formwork, place and install 6" Concrete Driveway Apron as shown on the drawings. Contractor shall apply Aquaron 2000 Cure and Seal immediately upon the removal of the formwork. All concrete work shall be in accordance with the latest editions of PennDOT Publication 408, and Publication 72, RC-64, and RC-67. Contractor is responsible for verifying that the final grades, slopes and dimensions are in compliance with the above publications.

19. PRECAST CONCRETE BENCH

A. Measurement

Measurement for Precast Concrete Bench will be as determined in the field per EACH, installed per contract drawings and spec SECTION 12 93 00.

B. Payment

Payment for Precast Concrete Bench shall be made at the contract unit price for this item. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary for furnishing and installing the benches as shown on the Drawings. Any repairs, replacement, or reinstallation will be the responsibility of the Contractor at no additional cost to the Owner.

20. 4' ORNAMENTAL PICKET FENCE & GATES

A. Measurement

Measurement for Ornamental Picket Fence & Gates will be as determined in the field per linear feet of 4' Ornamental Picket Fence & Gates, installed per contract drawings and spec SECTION 05 73 00.

B. Payment

Payment for 4' Ornamental Picket Fence & Gates shall be made at the contract unit price for this item. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary for furnishing and installing the benches as shown on the Drawings. Any repairs, replacement, or reinstallation will be the responsibility of the Contractor at no additional cost to the Owner.

21. 4' CHAIN LINK FENCE & GATES

A. Measurement

Measurement for Chain Link Fence & Gates will be as determined in the field per linear feet of 4' Chain Link Fence, installed per contract drawings and spec SECTION 32 31 10.

B. Payment

Payment for 4' Chain Link Fence & Gates shall be made at the contract unit price for this item. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary for furnishing and installing the benches

as shown on the Drawings. Any repairs, replacement, or reinstallation will be the responsibility of the Contractor at no additional cost to the Owner.

22. 6' SHADOW BOX FENCE ENCLOSURE

A. Measurement

Measurement for this item shall be as determined in the field per linear feet of 6' Shadow Box Fencing installed as specified on the plans.

B. Payment

Payment for the 6' Shadow Box Fence Enclosure shall be made at the contract unit price as listed in the Bid Schedule. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for preparation, maintenance, and installation of fencing as shown on the drawings. This includes all concrete foundations and ties as necessary to support the fence posts and fencing. The fencing shall be black vinyl with black powder coated posts. Any repairs or replacement of materials will be the responsibility of the contractor at no additional cost to the owner.

23. WOODEN GUARD RAIL

A. Measurement

Measurement for this item shall be as determined in the field per linear feet of Wooden Guard Rail installed as specified on the plans.

B. Payment

Payment for Wooden Guard Rail shall be made at the contract unit price as listed in the Bid Schedule. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for preparation, maintenance, and installation of wooden guard rail as shown on the drawings. This includes all foundations and ties as necessary to support the fence posts and fencing. Any repairs or replacement of materials will be the responsibility of the contractor at no additional cost to the owner.

24. SHADE SAIL INSTALLATION

A. Measurement

Measurement for this item shall be as lump sum as based on the installation of the Shade Sail in accordance with the Project Manual and as indicated on the Drawings.

B. Payment

Payment for the Shade Sail shall be made at the applicable lump sum price listed in the Bid Schedule. This price and payment shall constitute full compensation for furnishing all labor, materials and equipment necessary for installing the Owner-Supplied Shade Sail as shown on the Drawings. This includes, but is not limited to grading, stone, compaction, excavation, reinforcing, footings, erection, shade sail installation and all other work intended and incidental thereto in accordance with the design specifications and recommendations by the manufacturer, and as more fully defined in the Project Manual and/or shown on the Drawings. Shade sail material is

to be provided by the Owner, installation is the responsibility of the contractor.

25. FINAL SEEDING

A. Measurement

Measurement for seeding will be determined in the field per square foot, including placement and installed once topsoil is installed at final grade per the Contract Documents and Drawings.

B. Payment

Payment for the installation of seeding shall be made at the contract unit price for this item. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for furnishing and installing the seed as shown on the Drawings, this includes but is not limited to temporary placement. Any repairs, replacement, or reinstallation will be the responsibility of the Contractor at no additional cost to the Owner, including Contractor's maintenance of seeding to the satisfaction of the Bucks County Conservation District throughout the project duration.

26. SPECIALTY SEEDING AREAS

A. Measurement

Measurement for seeding will be determined in the field per square foot of each special seed mix place in the rain garden areas once topsoil is installed at final grade per the Contract Documents and Drawings.

B. Payment

Payment for the installation of specialty seeding shall be made at the contract unit price for this item. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for furnishing and installing the seed as shown on the Drawings, this includes but is not limited to temporary placement, raking of topsoil, and seeding supplements. The following seed mixtures should be installed as defined and in the locations shown on the plans: **ERNST Perennial Food & Cover Wetland Seed Mix and Native Detention Area Seed Mix.** Any repairs, replacement, or reinstallation will be the responsibility of the Contractor at no additional cost to the Owner, including Contractor's maintenance of seeding to the satisfaction of the Bucks County Conservation District throughout the project duration.

27. TREES, SHRUBS (PER PLANT LIST)

A. Measurement

Measurement for TREES & SHRUBS (PER PLANT LIST) will be as determined in the field per EACH, installed per contract drawings and spec SECTION 32 92 00.

B. Payment

Payment for TREES & SHRUBS (PER PLANT LIST) shall be made at the contract unit price for this item. This price and payment shall constitute full compensation for furnishing all labor, materials and equipment necessary for furnishing and installing the trees and shrubs as shown on the Drawings. Any repairs, replacement, or

reinstallation will be the responsibility of the Contractor at no additional cost to the Owner, including Contractor's maintenance of trees and shrubs to the satisfaction of the Bucks County Conservation District at project completion. Work associated with this item that requires EXCAVATION, BACKFILL AND COMPACTION per SECTION 31 23 33 shall be incidental to this pay item.

28. STORM PIPE

A. Measurement

Measurement for this item shall be as determined in the field for linear feet of Storm pipe installed. Storm Pipe shall be sized as specified on the plans.

B. Payment

Payment for the installation of Storm pipe shall be made at the contract unit price as listed in the Bid Schedule. This price shall constitute full compensation for the furnishing of all labor, materials, equipment, mobilization, and maintenance and protection of traffic necessary for the installation of the HDPE or PVC Pipe including but not limited to excavation, backfill, pipe, dewatering, and permits. This item includes the removal, hauling and disposal of excess soil and/or waste material. The price shall include root trimming or pruning, tree protection, excavation, removal, hauling and disposal of all excess material, trenching, sheeting and/or shoring the trench where required by OSHA standards, pumping and bailing, laying, cutting and joining of the pipe, cutting for holes in existing structures, pipe bedding, cutting, supporting the underground structures and utilities, geotextile, soft digging around services, replacement of necessary services, earth and stone backfill, removal and resetting of existing features, landscape restoration and all other related work required to complete the installation of the storm sewer pipe as more fully defined elsewhere in the Project Manual and/or shown on the Drawings. Any necessary tree root trimming or pruning to ensure proper installation is incidental to this item.

29. 2'X4' TYPE 'C' INLET

A. Measurement

Measurement for this item shall be as determined in the field for each 2' x 4' Type 'C' Inlet installed as indicated on the drawings.

B. Payment

Payment for the installation of 2' x 4' Type 'C' Inlet shall be made at the contract unit price listed in the Bid Schedule. This price shall constitute full compensation of all labor, materials, equipment, and maintenance necessary for the installation of 2' x 4' Type 'C' Inlet. The price shall include protection of existing utilities, excavation, furnishing and installing inlet and ADA compliant bicycle safe inlet tops, pipe connection, placement and compaction of 2A stone backfill, coatings, adjustment of all utilities, dewatering, crushed stone aggregate base, backfilling, sheeting and shoring, removal of excess excavated material, removal of existing structures, erosion and sedimentation control and all other related work necessary to complete the construction of 2' x 4' Type 'C' Inlet as more fully defined elsewhere in the Project Manual and/or shown on the Drawings.

30. 24" YARD INLET WITH FRAME & GRATE

A. Measurement

Measurement for this item shall be as determined in the field for each 24" Yard Inlet with Frame & Grate installed as indicated on the drawings.

B. Payment

Payment for the installation of 24" Yard Inlet with Frame & Grate shall be made at the contract unit price listed in the Bid Schedule. This price shall constitute full compensation of all labor, materials, equipment, and maintenance necessary for the installation of 24" Yard Inlets with Frame & Grate. The price shall include protection of existing utilities, excavation, furnishing and installing inlets and ADA compliant bicycle safe grates, frame, placement and compaction of 2A stone backfill, installation of snouts, coatings, adjustment of all utilities, dewatering, crushed stone aggregate base, backfilling, sheeting and shoring, removal of excess excavated material, removal of existing structures, erosion and sedimentation control and all other related work necessary to complete the construction of 24" Inlet with Frame & Grate as more fully defined elsewhere in the Project Manual and/or shown on the Drawings.

31. 18" FILTER INLET

A. Measurement

Measurement for this item shall be as determined in the field for each 18" filter inlet installed as indicated on the drawings.

B. Payment

Payment for the installation of 18" filter inlet shall be made at the contract unit price listed in the Bid Schedule. This price shall constitute full compensation of all labor, materials, equipment, and maintenance necessary for the installation of the 18" Filter Inlet. This price shall include protection of existing utilities, excavation, furnishing and installing inlet, frame, grate, placement and compaction of 2A stone backfill, coatings, adjustment of all utilities, dewatering, crushed stone aggregate base, backfilling, sheeting and shoring, removal of excess excavated material, removal of existing structures, erosion and sedimentation control and all other related work necessary to complete the construction of 18" Filter Inlet with Frame & Grate as more fully defined elsewhere in the Project Manual and/or shown on the Drawings.

32. NYLOPLAST STORM MANHOLE

A. Measurement

Measurement for this item shall be as determined in the field for each Nyloplast Storm Manhole as indicated on the drawings.

B. Payment

Payment for the installation of Nyloplast Storm Manhole shall be made at the contract unit price listed in the Bid Schedule. This price shall constitute full compensation of all labor, materials, equipment, and maintenance necessary for the installation of the Nyloplast Storm Manhole. This price shall include protection of existing utilities, excavation, furnishing and installing manholes, frame, grate, placement and compaction of 2A stone backfill, coatings, adjustment of all utilities, dewatering, crushed stone aggregate base, backfilling, sheeting and shoring, removal of excess

excavated material, removal of existing structures, erosion and sedimentation control and all other related work necessary to complete the construction of Nyloplast Storm Manhole as more fully defined elsewhere in the Project Manual and/or shown on the Drawings.

33. RAIN GARDEN

A. Measurement

Measurement of this item will be lump sum based on the installation and completion of the Rain Garden in accordance with the Project Manual and as indicated on the Drawings.

B. Payment

Payment for the Rain Garden shall be made at the applicable lump sum price listed in the bid schedule. This price shall constitute full compensation of all labor, materials, equipment, and maintenance necessary for installation of the Rain Garden. This includes, but is not limited to grading, stone, compaction, amended soils, underdrain, slope protection, anti-seep collars, cleanouts, and all other work intended and incidental thereto in accordance with the design specifications, and as more fully defined in the Project Manual and/or shown on the Drawings.

34. STONE SEEPAGE PIT/INFILTRATION BASIN

A. Measurement

Measurement for this item shall be as determined in the field per cubic yard of Stone Seepage Pit/Infiltration Basin installed as specified on the plans.

B. Payment

Payment for the Stone Seepage Pit/Infiltration Basin shall be made at the contract unit price as listed in the Bid Schedule. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for preparation, maintenance, excavation, bedding, geotextile, stone, and backfill as shown on the drawings. Any repairs or replacement of materials will be the responsibility of the contractor at no additional cost to the owner. Storm structures and piping associated with the stone seepage pit/infiltration basins to be installed and paid per separate line items.

35. BUILDING RENOVATIONS

A. Measurement

Measurement for this item shall be lump sum as based on the building renovations shown in the Architectural Drawings and as specified on the plans.

B. Payment

Payment for the Building Renovations shall be made at the contract unit price as listed in the Bid Schedule. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for preparation, maintenance, selective demolition, kitchen hood, replacement of VCT flooring in main room of Community Center, replacement of ceiling tiles in the main room of the Community Center, repainting of interior walls of the main room of the Community

Center, installation of new gutters and downspout on the exterior of the Community Center, and new front façade installation as shown on the site development plans and architectural plans. (Sheet A-1.2 of the Architectural Plans, Detail 1 and Sheet A-2.0 of the Architectural Plans, as well as Sec 01 22 00.01 - Exterior Façade Exhibit). Any repairs or replacement of materials will be the responsibility of the contractor at no additional cost to the owner.

36. PLAYGROUND INSTALLATION

A. Measurement

Measurement for this item shall be lump sum as based on the Playground Installation Details and as referenced on the Site Plan.

B. Payment

Payment for the Playground Installation shall be made at the contract unit price as listed in the Bid Schedule. This price and payment will constitute full compensation for furnishing all labor, and equipment necessary for installation of the proposed playground at the Community Center as referenced on the Site Plan as well as shown in the Playground Installation Details. Playground equipment to be provided by the Owner. Installation to be provided by the Site Contractor. Any repairs or replacement of materials will be the responsibility of the contractor at no additional cost to the owner.

37. ALTERNATE #1 – EXISTING EXTERIOR BUILDING SIDE WALLS REPAINTING

A. Measurement

Measurement for repainting of the existing side walls will be Lump Sum per the Contract Documents and Drawings.

B. Payment

Payment for repainting of the existing side walls shall be made at the applicable lump sum price listed in the Bid Schedule. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary to repaint the side walls as shown on the Drawings (Sheet A-2.0 of the Architectural Plans, as well as Sec 01 22 00.01 - Exterior Façade Exhibit).

38. ALTERNATE #1 – EXTERIOR METAL TRIM INSTALLATION

A. Measurement

Measurement for exterior metal trim installation will be Lump Sum per the Contract Documents and Drawings.

B. Payment

Payment for exterior metal trim installation shall be made at the applicable lump sum price listed in the Bid Schedule. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary to install the exterior metal trim on all four corners as shown on the Drawings (Sheet A-2.0 of the Architectural Plans, Details B and C as well as Sec 01 22 00.01 - Exterior Façade Exhibit).

39. ALTERNATE #2 GRASS SOD – ADDITIONAL COST (ADD COST = TOTAL COST – ITEM 3.01.24)

A. Measurement

Measurement for Grass Sod will be determined in the field per square foot, including placement and installed once topsoil is installed at final grade per the Contract Documents and Drawings.

B. Payment

Payment for the installation of Grass Sod shall be made at the contract unit price for the Additional Cost to Install Sod in Place of Final Seeding, Line Item 3.24. This price and payment will constitute full compensation for furnishing all labor, materials, and equipment necessary for furnishing and installing the Grass Sod as shown on the Drawings, this includes but is not limited to temporary placement. Any repairs, replacement, or reinstallation will be the responsibility of the Contractor at no additional cost to the Owner, including Contractor's maintenance of the Grass Sod to the satisfaction of the Bucks County Conservation District throughout the project duration.

3.02 CONTRACT #21-07025-02: ELECTRICAL CONTRACT

1. MOBILIZATION

A. Measurement

Measurement for this work is lump sum and constitutes furnishing all materials and equipment necessary to complete the work associated with this contract. This item also includes providing a Work in accordance with:

Section 01 29 00 – Contract Considerations
Section 01 31 00 – Coordination and Meetings
Section 01 33 00 – Submittals
Section 01 40 00 – Quality Control
Section 01 50 00 – Temporary Facilities and Controls
Section 01 56 39 – Landscape Protection
Section 01 60 00 – Material and Equipment
Section 01 70 00 – Contract Closeout

B. Payment

Payment for this item shall be made at the contract unit price as determined in the Bid Schedule. One half (50%) of the contract lump sum amount for this item will be paid with the first payment application. The remaining 50% will be paid upon satisfactorily completing 50% of the total original contract amount. This is a lump sum item for the entire contract. No additional payments for Mobilization will be paid as part of the Contract Work. Mobilization shall be performed and payment will be made in accordance to Section 01 71 13 "Mobilization" of the contract.

2. INSTALLATION OF UTILITY POLE

A. Measurement

Measurement for Installation of Utility Pole will be lump sum per the Contract Documents and Site Plan.

B. Payment

Payment for the installation of the new utility shall be made at the applicable lump sum price listed in the Bid Schedule. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary to install the new utility pole utility pole, underground wiring, and conduit as shown on the Site Plan.

3. SITE ELECTRICAL WIRING AND CONDUIT

A. Measurement

Measurement for Site Electrical Wiring and Conduit will be lump sum per the Contract Documents and Site Plan.

B. Payment

Payment for the installation of the Site Electrical Wiring and Conduit shall be made at the applicable lump sum price listed in the Bid Schedule. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary to install the underground wiring and conduit to the existing meter of the Community Center as shown on the Site Plan.

4. INSTALLATION OF INTERIOR ELECTRICAL EQUIPMENT

A. Measurement

Measurement for Installation of Interior Electrical Equipment will be lump sum per the Contract Documents and Electrical Drawings.

B. Payment

Payment for the installation of the interior electrical equipment shall be made at the applicable lump sum price listed in the Bid Schedule. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary to install interior wiring and lighting, and all other electrical equipment as shown on the Electrical Drawings. Electrical Contractor is responsible for providing any wiring, boxes, etc. required to connect power to plumbing and electrical equipment, as necessary. Electrical Contractor to coordinate work with Plumbing Contractor as needed.

3.03 CONTRACT #21-07025-03: PLUMBING CONTRACT

1. MOBILIZATION

A. Measurement

Measurement for this work is lump sum and constitutes furnishing all materials and equipment necessary to complete the work associated with this contract. This item also includes providing a Work in accordance with:

Section 01 29 00 – Contract Considerations
Section 01 31 00 – Coordination and Meetings
Section 01 33 00 – Submittals
Section 01 40 00 – Quality Control
Section 01 50 00 – Temporary Facilities and Controls
Section 01 56 39 – Landscape Protection
Section 01 60 00 – Material and Equipment
Section 01 70 00 – Contract Closeout

B. Payment

Payment for this item shall be made at the contract unit price as determined in the Bid Schedule. One half (50%) of the contract lump sum amount for this item will be paid with the first payment application. The remaining 50% will be paid upon satisfactorily completing 50% of the total original contract amount. This is a lump sum item for the entire contract. No additional payments for Mobilization will be paid as part of the Contract Work. Mobilization shall be performed and payment will be made in accordance to Section 01 71 13 "Mobilization" of the contract.

2. INSTALLATION OF INTERIOR PLUMBING FACILITIES

A. Measurement

Measurement for the Installation of Interior Plumbing Facilities will be Lump Sum for all equipment installed including, but not limited to piping, toilets, exhaust fan, ductwork, sinks, floor drains, and pump outs, as well as locating and connecting to the existing sewer sanitary sewer lateral (this includes any concrete sawcut and/or restoration required within the building to connect to the existing sanitary sewer system) as indicated on the drawings.

B. Payment

Payment for the Installation of Interior Plumbing Facilities shall be made at the applicable lump sum contract unit price listed in the Bid Schedule. This price and payment shall constitute full compensation for furnishing all labor, materials, and equipment necessary for the installation of piping, toilets, exhaust fan, ductwork, sinks, floor drains, pump outs, grease interceptor, water heater, cleanouts, and all other work intended and incidental thereto to install the Interior Plumbing Facilities as shown on the Plumbing Plans and elsewhere in the Project Manual. Electrical Contractor is responsible for providing any wiring, boxes, etc. required to connect power to plumbing and electrical equipment, as necessary. Plumbing Contractor to coordinate work with Electrical Contractor as needed.

3.04 INCIDENTAL ITEMS

1. ALLOWANCES

The Owner is including a General Allowance for any work that may need to be completed beyond that defined in the contract. The allowance is defined for the Dollar amount for each item.

2. MAINTENANCE AND PROTECTION OF TRAFFIC

There will be no separate payment for Maintenance and Protection of Traffic as Maintenance and Protection of Traffic is incidental to all other Work. Maintenance and

protection of traffic includes all labor, material, and equipment necessary for installation, maintenance, and relocation of traffic control devices and flagging to complete all work. This may include the flaggers, erection, placement, and maintenance in good condition of barricades, warning signs, lights, flares, approved yellow-flashing light units, rubber traffic cones, and other warning and danger signals and devices, appropriate and adequate for the specific needs at the project site. This applies to pedestrian and vehicular traffic. All work shall be completed in accordance with Section 01 55 26 and as directed.

3. BITUMINOUS TACK COAT

Separate payment for tack coat will not be made as its cost will be included in the applicable items associated with its use. This shall include all labor, materials, equipment, and traffic control necessary for the tack coat installation. Tack Coat shall be in accordance with the latest editions of PennDOT Publication 408, Section 460. Asphalt materials shall be based on PennDOT's **June 2023 Asphalt Cement Price Index**.

4. EROSION AND SEDIMENT CONTROL MAINTENANCE

There will be no separate payment for Erosion and Sediment Control Maintenance as Erosion and Sediment Control Maintenance is incidental to all Erosion & Sediment Control devices. All Erosion & Sediment Control Devices should be routinely inspected and maintained in accordance with PADEP and the Bucks County Conservation District standards throughout the project duration. **Payment for Erosion and Sediment Control Maintenance will not be made as Erosion and Sediment Control Maintenance will be made incidental to all other Work as specified above.**

5. CONSTRUCTION SURVEYING

There will be no separate payment for Construction Surveying since all survey will be incidental to the rest of the work.

6. MATERIAL TESTING

There will be no separate payment for Materials Testing since all testing will be incidental to the rest of the work. The contractors are required to complete materials testing such as concrete testing, compaction testing, etc. as defined in the technical specifications and as directed by the Owner's Representative. Copies of material testing results should be provided to the Owner's Representative as soon as they are received.

7. ROADWAY RESTORATION

There will be no separate line item for Roadway Restoration. Roadway Restoration required from concrete curb/sidewalk installation shall be completed in accordance with Section 32 12 23 of the Bid Documents. Roadway Restoration must occur as soon as possible but no later than 7 days of the last concrete pour. The existing pavement is to be removed with a neat, straight saw cut with square edges and is not to extend more than **one (1) foot'** from the face of the new concrete curb into the existing roadway. The roadway must be restored with the placement of Class A Concrete and 1.5" of Superpave Wearing Course, PG 64S-22, 9.5MM Mix. **Restoration using stone, base course, and binder course is not permitted due to settlement concerns.** Contractor shall place PG 64S-22 along curb lines and at all pavement restoration tie-ins. Contractor shall place tack coat between courses and along joints of existing pavement and curbing. If road is cut more than 1' away from the concrete curb, infrared patching will be required. **Payment for Roadway Restoration will not be made as Roadway Restoration will be made incidental to all other Work as specified above.**

END OF SECTION



Faux Panels

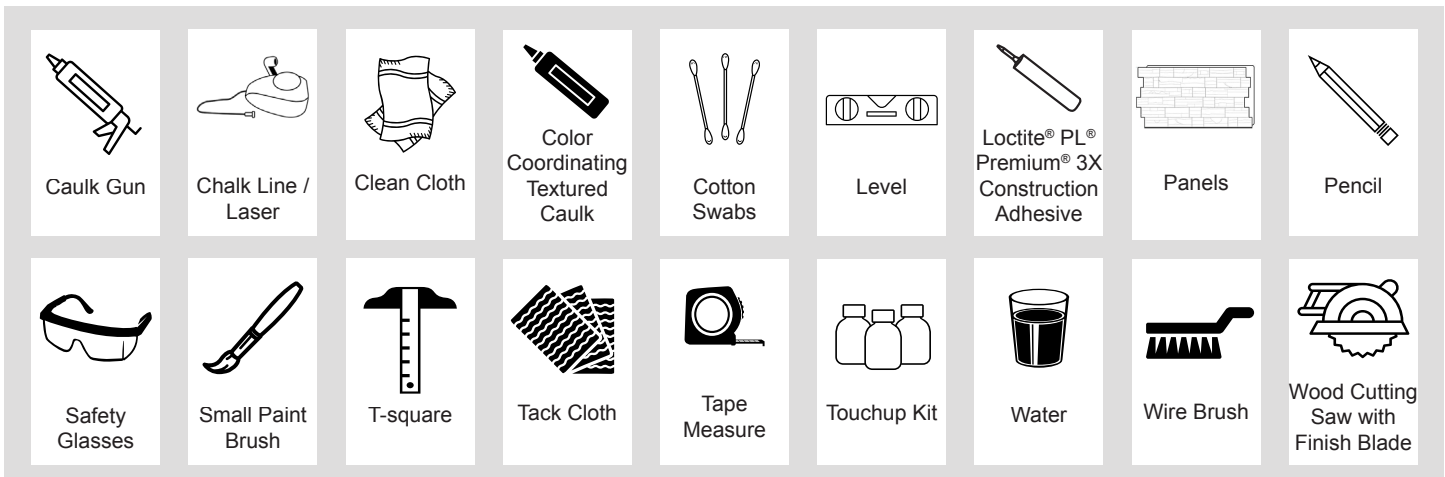
Exterior Installation Instructions

For Structural Walls Constructed Using Hardboard, Particleboard, Plywood, Rigid Foam Insulated Board & OSB



for Chevron and River Rock, consult style-specific instructions.

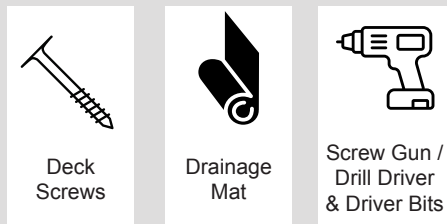
General Tools and Materials:



NOTE: (1) tube of Loctite PL Premium 3X adhesive is typically needed for every (3) panels.
(1) tube of textured caulk is typically needed for every (4) panels.

Installation-Specific Tools and Materials:

Adhesive and Fastener Installation



24 Hours Before Starting

Acclimate all panels by storing them flat in the installation location (but away from moisture and direct sunlight or other heat sources) for at least 24 hours.

Adhesive-Only Installation Over Concrete/Masonry/Metal



WARNING:

- Be sure to obey all safety rules and recommendations set forth by tool manufacturers.
- Wear safety glasses during the entire installation process.
- Be sure to follow all applicable building codes.
- Always comply with clearances set forth by the manufacturer of stoves, fireplaces, furnaces, and any other heat source.

Exterior Installation

Before You Start

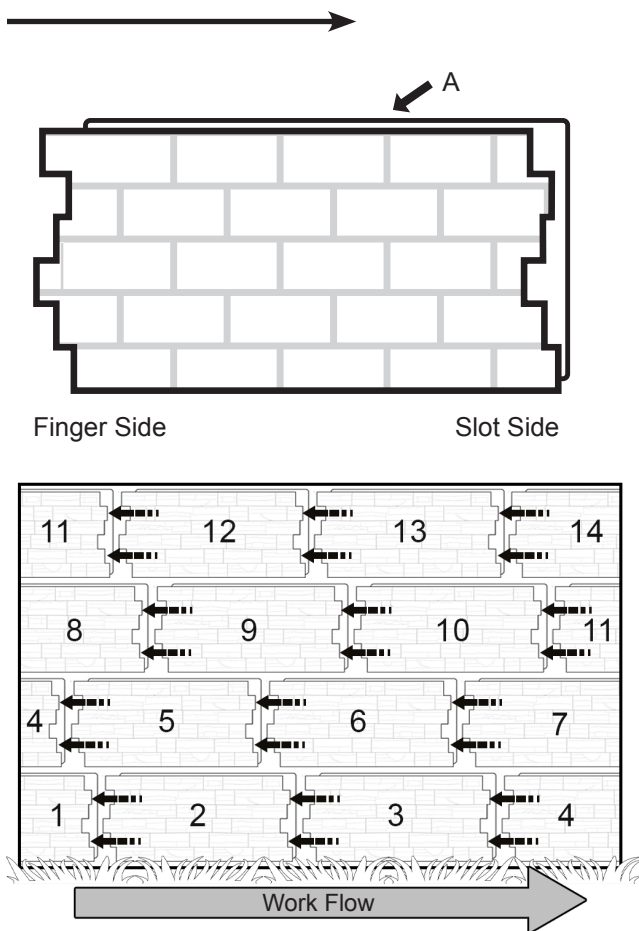
- Ensure wall is structurally sound and in good condition. Clear away brush and debris.
- Install exterior sheathing and house wrap.
- Gather all tools and materials.
- If you will be working around corners, determine the best approach for your project using our installing faux panels around corners instruction sheet.

How to Determine Installation Workflow

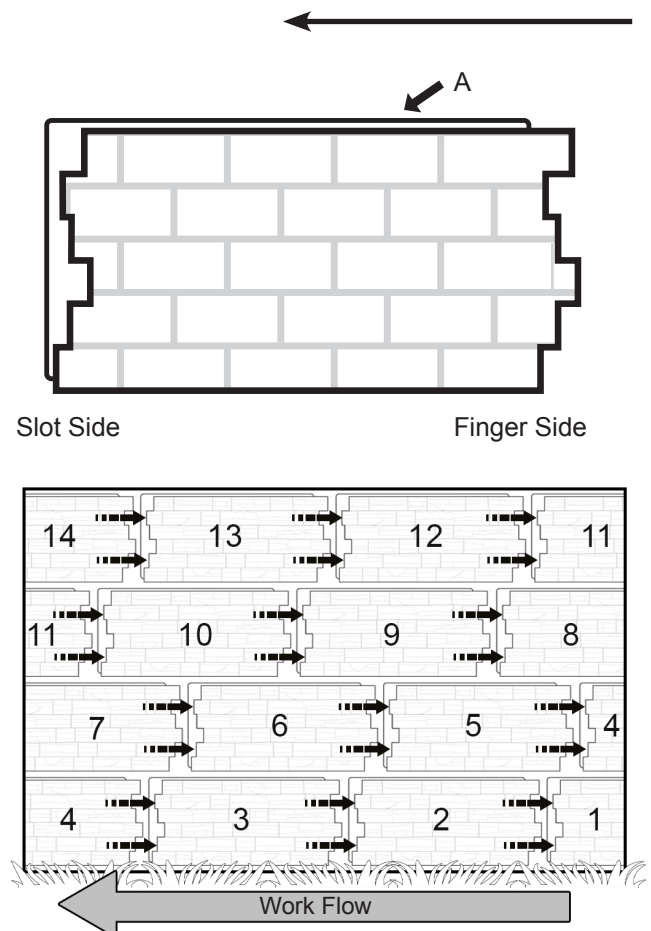
WARNING: Your panels can only be installed one way. Before starting, look at your panels to determine which way they must be installed.

Installation will run left to right or right to left depending on the panel style. Orient one of your panels so that the flat lip on the long side (A) is up. If the fingers project to the left, the installation will run left to right. If the fingers are on the right side of the panel, the installation will go right to left.

Left to Right Installation



Right to Left Installation

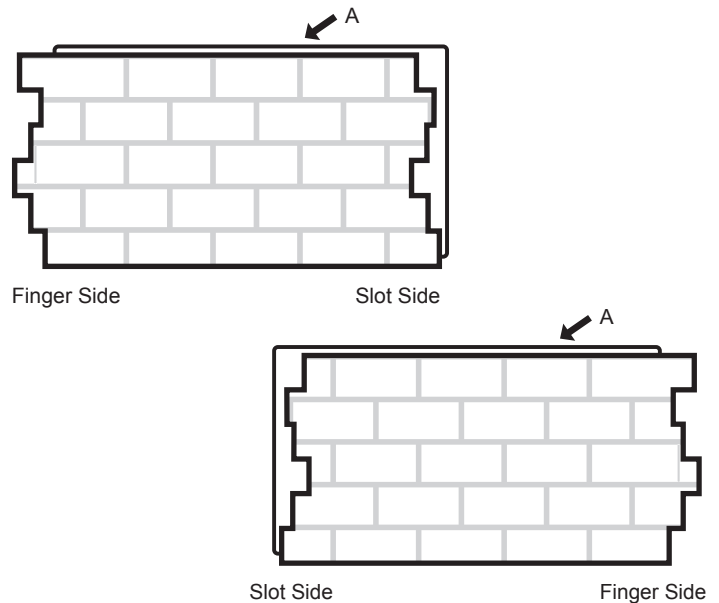


TIP: For styles other than Carlton and Herringbone Brick, seams should be offset for a more realistic look. To reduce waste, try to use reserved portions from previously cut panels to start and finish each row. Panels may require shimming and trimming for proper alignment.

Exterior Installation

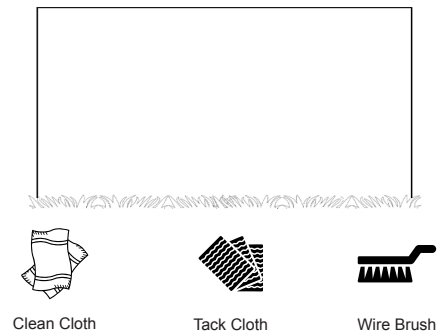
1 Orient Panels & Determine Installation Order

1. Orient each of the panels so that the flat lip (A) is up.
2. Each panel is hand painted and unique. In some cases, a style includes multiple molds to create an even more realistic look. Frequently the panels will have “A” and “B” stamped on the flat lip (A) to indicate the different molds. When both are available, it is a good idea to try to alternate between A and B panels when installing.
3. It is helpful to establish an order for the panels by laying them out prior to starting the installation process. Look at the variation in color and texture to ensure no one section draws the eye.



2 Prepare Surfaces

1. Ensure wall is stable and in good condition.
2. Wipe hard surfaces with a wire brush to remove loose debris.
3. Wipe walls with a tack cloth to remove any dirt or sawdust. Clean surfaces are required to ensure the panels adhere properly.

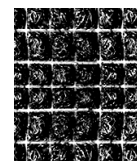


3 Install Drainage Mat

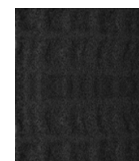
NOTE: Skip this step if installing with adhesive only method over concrete, masonry or metal.

1. Orient the roll so that the grid side faces the wall and the smoother side faces out.
2. Fasten the drainage mat to the wall using deck screws long enough to pass through the mat, house wrap and into the structural material.

- Please comply with all regional building codes. Drainage mats are required for all exterior installations except those over concrete/masonry/metal.
- The DM-3611R Drainage Mat meets Canadian Building Codes and is required for most exterior installations in Canada.
- Exterior sheathing and house wrap must be installed before the drainage mat.



Side that faces wall



Side that faces away from wall



Deck Screws



Screw Gun/
Drill Driver with
Driver Bits

Exterior Installation



for Chevron and River Rock, consult style-specific instructions.

4

Trim First Panel

NOTE: Skip if installing interlocking corners.

For all panels except Carlton and Herringbone Brick:

1. Turn the panel over on a soft surface and mark where you intend to cut the panel. Trim the panel, using a wood cutting saw with a finish blade.
2. We recommend cutting off at least $\frac{1}{4}$ of the panel to minimize waste.
3. The slot side will be used first. Reserve the finger side for use later in the project.

For Carlton and Herringbone Brick panels:

NOTE: These styles will not have staggered seams.

1. Determine the number of panels needed to run the length of the first row.
2. Trim the bottom off each panel so that they will sit flush with the floor/ground.
3. Trim the fingers off the first panel.



Pencil



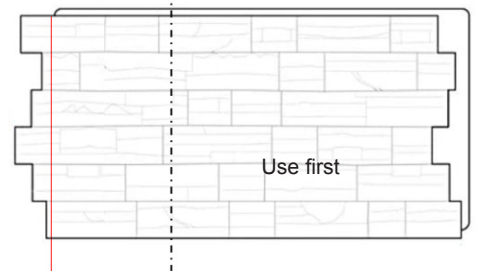
Tape Measure



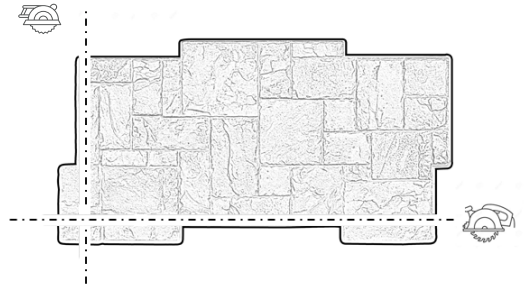
T-square



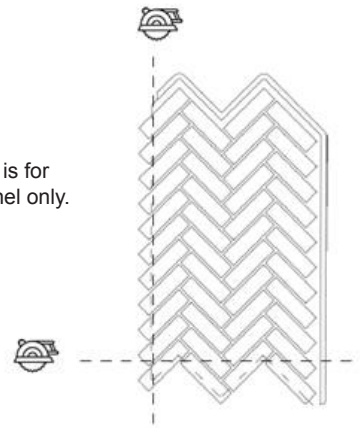
Wood Cutting Saw with Finish Blade



x Not recommended to trim only the fingers



Vertical cut is for the first panel only.



Vertical cut is for the first panel only.

5

Draw Level Line

Find the high point on the floor/ground using a level. Place a full size panel against the wall and mark the height. Draw a level line the length of the wall.



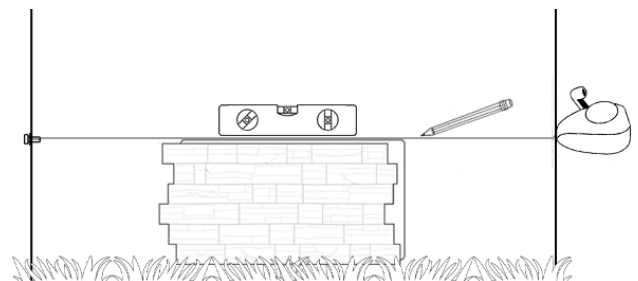
Pencil



Level / Laser Level



Chalk Line / Laser



Exterior Installation

6 Apply Adhesive

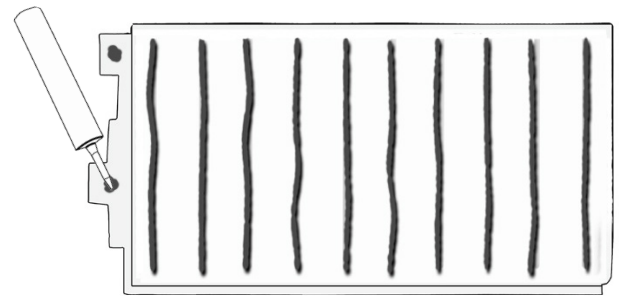
Wipe the back of the panel with a tack cloth to remove debris.

Adhesive and Fastener Installation:

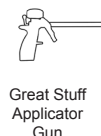
Turn the panel over on a soft surface and apply beads of Loctite PL 3X adhesive to the back of the panel in vertical lines spaced no more than 3" apart. Also add a dab of adhesive to the back of each finger.

Adhesive-only Installation over Concrete/Masonry/Metal:

Wearing gloves and following the instructions on the Great Stuff Pro™ Construction Adhesive canister, turn the panel over and apply beads of Great Stuff Pro™ Construction Adhesive to the panel in vertical lines starting 2" from the edge and in 6" increments along the interior of the panel and a dab on the back of each panel finger. When applying to metal buildings ensure that the adhesive beads align with any embossed patterns in the cladding.



ADHESIVE-ONLY INSTALLATION OVER CONCRETE, MASONRY OR METAL



Great Stuff
Applicator
Gun



Great Stuff Pro™
Construction
Adhesive



Disposable
Gloves



Caulk Gun



Loctite PL 3x



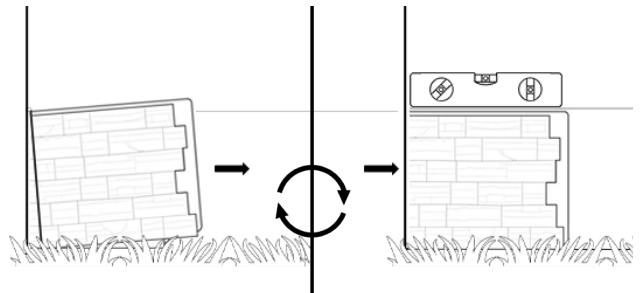
Tack Cloth

7 Adhere Panel to Wall

1. Use a slight twisting motion to ensure good contact.
2. Ensure panel is level, lines up with the level line drawn in *Step 5* and plumb with the edge of the wall.



Level

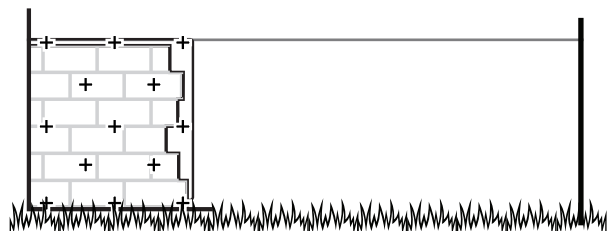


8 Screw Panel to Wall

NOTE: Skip this step if installing with adhesive only method.

Place (1) screw per foot along the perimeter and (1) screw per square foot in the middle of the panel. Screws should be slightly recessed. Place screws under protruding rocks or in grout lines to make them less noticeable.

DO NOT OVER TIGHTEN SCREWS.



Deck Screws

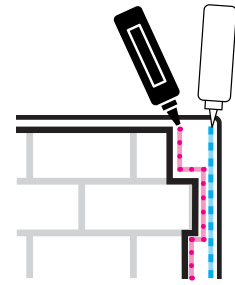


Screw Gun / Drill Driver
& Driver Bits

Exterior Installation

9 Add Adhesive and Caulk

1. Add adhesive to the lip of the panel about 1" from the face.
2. Also apply a bead of textured caulk where the face meets the panel. *Caulk must be added during this step.* Adding caulk later will not protect against water and result in a less realistic appearance.
3. Use a damp cloth to remove any excess adhesive or caulk.



Clean Cloth



Caulk Gun



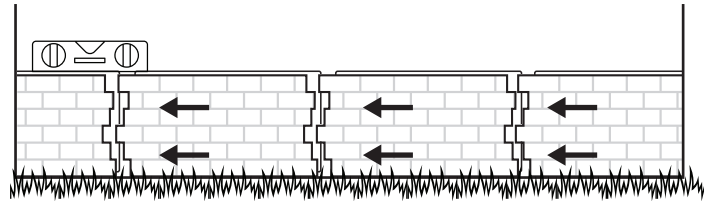
Color Coordinating
Textured Caulk



Loctite PL 3x

10 Repeat Steps 6-9

1. Butt the panels tightly together while following the level line. Dry fit each panel before applying adhesive to ensure it fits flush. Trim if necessary. The last panel on the row will have to be trimmed from the finger side of a panel.
2. Wipe off any excess caulk or adhesive with a damp cloth before it dries.



Clean Cloth



Caulk Gun



Color Coordinating
Textured Caulk

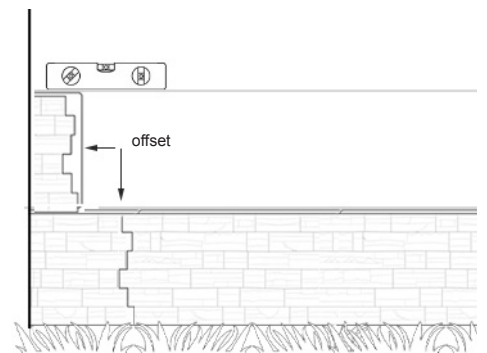
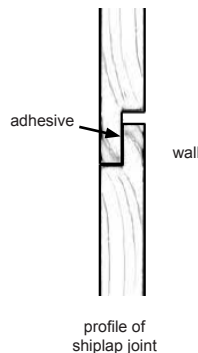


Loctite PL 3x

TIP: Before cutting a full size panel, check to see if a previously cut panel can be used to finish the row.

11 Start Next Row

1. For multiple rows, start the next row directly above the first panel. Trim the first panel of the next row so that when installed the seams will be offset. You may be able to use a portion of a panel from another part of the job.
2. Carlton and Herringbone Brick panels will not have offset seams. Trim only the left fingers off the starting panel.
3. Before installing each panel on the next row apply adhesive to the top lip of the panel below. Take care when placing the panel to ensure a tight fit with the panel below. Panels should come together to create a shiplap joint.



Caulk Gun



Wood Cutting
Saw with Finish
Blade



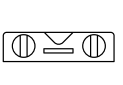
Loctite PL 3x



Pencil



Chalk Line/ Laser



Level

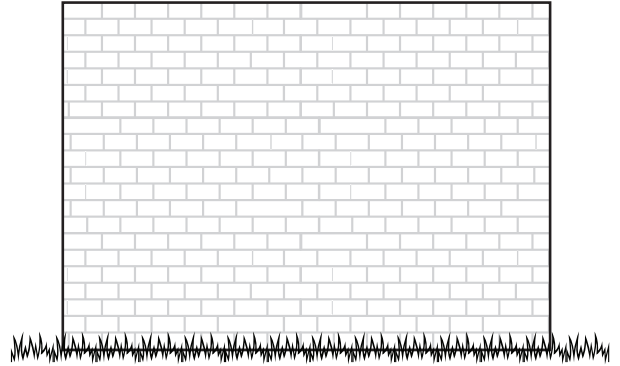
Exterior Installation

12 Touch-Up As Needed

1. Add a bead of caulk to seal any mitered joints and where a panel butts against another surface (like an adjoining wall).
2. Add caulk to fill in voids, gaps and holes from screw heads. Carefully blend before it dries.
3. If your touch-up kit contains a base coat, use a cotton swab to apply a light layer of the base coat and allow it to dry completely (about 30 minutes).
4. Using a paint brush, apply the appropriate paint then dab with a soft cloth to blend and allow to dry completely (about 30 minutes).
5. If your touch-up kit contains a wash, apply the wash using a paint brush and dab with a soft cloth to blend. If the bottle is labeled “wash concentrate” add tap water to the neck of the bottle, screw the lid back on and shake to mix before using.

TIPS

- If you need to mix colors to achieve the desired shade, we recommend doing so on a piece of scrap material.
- Paint can be thinned by adding water.
- Start with lighter colors.



Water



Touch-up Kit



Paint Brush



Clean Cloth



Cotton Swabs



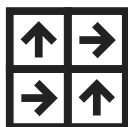
Caulk Gun



Color Coordinating
Textured Caulk



Installation Method



Non Directional

All product specifications reflect averages derived from product sample testing, are subject to normal manufacturing and testing tolerances and inherent pattern variances, and may be changed without notice. For more information about these and other important attributes of the product(s) described herein, including recycled content and product warranty information, please see www.interface.com/disclaimer.

Product SR999 **Color** Onyx **Collection** Step Repeat Collection **Backing** GlasBac™

Product Specifications

Product Number	1388702500
Product Construction	Tufted Textured Loop
Yarn System	100% Recycled Content Nylon
Yarn Manufacturer	Aquafil
Dye Method	100% Solution Dyed
Soil/Stain Protection	Protekt ² ®
Preservative Protection	Intersept®

More Product Specifications

	Imperial	Metric
Tufted Yarn Weight	27 oz/yd ²	915 g/m ²
Machine Gauge	1/12 in	47.2 ends/10cm
Pile Height	0.17 in	4.30 mm
Pile Thickness	0.13 in	3.20 mm
Stitches	10.00 /in	39.37 ends/10cm
Pile Density	7,654 oz/yd ³	283,809 g/m ³
Size	19.69 in x 19.69 in	50 cm x 50 cm

Performance Specifications

Flooring Radiant Panel	(ASTM E-648) Passes
Smoke Density	(ASTM E-662) ≤ 450
Flammability	Passes Methenamine Pill Test (DOC-FF1-70)
Lightfastness	(AATCC 16 - E) ≥ 4.0 @ 60 AFU's
Static	(AATCC - 134) < 3.0 KV
Dimensional Stability	AACHEN Din 54318 < 0.10%
Traffic Classification	Severe
Fiber Modification Ratio	1.9 to 2.2
Preservative Efficacy	(AATCC 174 Parts 2&3) 99% Reduction/No Mold 7 Days (ASTM E-2471) Complete Inhibition

Health + Environmental Specifications

Embodied Carbon (Cradle to Gate)	4.78 Kg CO ₂ /M ² (based upon 20 oz face weight)
Full Life Cycle Carbon Emissions	Certified Carbon Neutral Floors™
Total Recycled Content	66.52 %
Recycled Content (Pre Consumer)	55.35 %
Recycled Content (Post Consumer)	11.17 %
Indoor Air Quality	Green Label Plus #GLP0820
Material Composition	Free of Added Heavy Metals, Formaldehyde, Fluorinated Chemicals (PFAS), and Halogenated Flame Retardants.
Disclosure of Environmental Impacts	Environmental Product Declaration
Disclosure of Product Ingredients	Health Product Declaration
Environmental Certifications	Certificate of Conformity
LEED v4	Contributes to multiple IEQ and MR credits
End of Life	Carpet to Carpet Recycling through ReEntry®

Technical Information

Installation	Interface Installation Guidelines
Maintenance	Recommended Interface Maintenance Guidelines
Reclamation	Recyclable through ReEntry® - Call 1.888.733.6873 (U.S.) / 1.866.398.3191 (Canada)
Warranty	15 Year Standard Carpet Warranty
Installation Method	Non Directional
Manufacturing Location	ISO 9001 & 14001 Certified facilities in Troup County, Georgia, United States

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project Name:	Marie Lowe Drive Community Center - Public Improvements
Awarding Agency:	Bristol Township
Contract Award Date:	7/20/2023
Serial Number:	23-05866
Project Classification:	Building
Determination Date:	6/27/2023
Assigned Field Office:	Philadelphia
Field Office Phone Number:	(215)560-1858
Toll Free Phone Number:	
Project County:	Bucks County

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 23-05866 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Asbestos & Insulation Workers	5/1/2021		\$54.35	\$39.95	\$94.30
Asbestos & Insulation Workers	6/1/2023		\$57.84	\$43.36	\$101.20
Boilermaker (Commercial, Institutional, and Minor Repair Work)	1/1/2019		\$29.26	\$18.48	\$47.74
Boilermakers	1/1/2023		\$51.27	\$35.30	\$86.57
Bricklayer	5/1/2022		\$46.45	\$31.06	\$77.51
Bricklayer	5/1/2023		\$47.50	\$31.42	\$78.92
Carpenter - Chief of Party (Surveying & Layout)	5/1/2021		\$47.47	\$28.71	\$76.18
Carpenter - Chief of Party (Surveying & Layout)	5/1/2023		\$50.57	\$29.02	\$79.59
Carpenter - Chief of Party (Surveying & Layout)	5/1/2024		\$52.58	\$29.02	\$81.60
Carpenter - Chief of Party (Surveying & Layout)	5/1/2025		\$54.59	\$29.02	\$83.61
Carpenter - Instrument Person (Surveying & Layout)	5/1/2021		\$41.28	\$28.71	\$69.99
Carpenter - Instrument Person (Surveying & Layout)	5/1/2023		\$43.97	\$29.02	\$72.99
Carpenter - Instrument Person (Surveying & Layout)	5/1/2024		\$45.72	\$29.02	\$74.74
Carpenter - Instrument Person (Surveying & Layout)	5/1/2025		\$47.47	\$29.02	\$76.49
Carpenter - Rodman (Surveying & Layout)	5/1/2021		\$20.64	\$20.31	\$40.95
Carpenter - Rodman (Surveying & Layout)	5/1/2023		\$21.99	\$20.62	\$42.61
Carpenter - Rodman (Surveying & Layout)	5/1/2024		\$22.86	\$20.62	\$43.48
Carpenter - Rodman (Surveying & Layout)	5/1/2025		\$23.74	\$20.62	\$44.36
Carpenters	5/1/2022		\$42.53	\$28.71	\$71.24
Carpenters	5/1/2023		\$43.97	\$29.02	\$72.99
Carpenters	5/1/2024		\$45.72	\$29.02	\$74.74
Carpenters	5/1/2025		\$47.47	\$29.02	\$76.49
Cement Finishers & Plasterers	5/1/2022		\$38.57	\$32.39	\$70.96
Cement Masons	5/1/2023		\$44.20	\$32.96	\$77.16
Dockbuilder, Pile Drivers	5/1/2023		\$50.48	\$37.99	\$88.47
Dockbuilder, Pile Drivers	5/1/2024		\$52.98	\$37.99	\$90.97
Dockbuilder, Pile Drivers	5/1/2025		\$55.23	\$37.99	\$93.22
Dockbuilder, Pile Drivers	5/1/2026		\$56.98	\$37.99	\$94.97
Dockbuilder/Pile Driver Diver	5/1/2023		\$58.41	\$41.74	\$100.15
Dockbuilder/Pile Driver Diver	5/1/2024		\$61.54	\$41.74	\$103.28
Dockbuilder/Pile Driver Diver	5/1/2025		\$64.35	\$41.74	\$106.09
Dockbuilder/Pile Driver Diver	5/1/2026		\$66.54	\$41.74	\$108.28
Dockbuilder/pile driver tender	5/1/2023		\$50.48	\$37.99	\$88.47
Dockbuilder/pile driver tender	5/1/2024		\$52.98	\$37.99	\$90.97
Dockbuilder/pile driver tender	5/1/2025		\$55.23	\$37.99	\$93.22
Dockbuilder/pile driver tender	5/1/2026		\$56.98	\$37.99	\$94.97
Drywall Finisher	5/1/2023		\$38.77	\$31.12	\$69.89
Electricians	1/2/2023		\$54.27	\$36.15	\$90.42
Elevator Constructor	1/1/2023		\$66.21	\$43.64	\$109.85
Floor Coverer	5/1/2023		\$50.12	\$29.21	\$79.33
Floor Coverer	5/1/2024		\$52.19	\$29.21	\$81.40
Glazier	5/1/2023		\$46.68	\$36.62	\$83.30
Interior Finish	5/1/2019		\$30.20	\$25.80	\$56.00
Interior Finish	5/1/2023		\$34.60	\$25.80	\$60.40

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 23-05866 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	1/1/2023		\$50.70	\$39.51	\$90.21
Iron Workers (Riggers)	7/1/2017		\$39.83	\$27.92	\$67.75
Iron Workers (Riggers)	7/1/2023		\$42.53	\$34.14	\$76.67
Ironworker (Rodman)	7/1/2020		\$44.82	\$31.60	\$76.42
Ironworker (Rodman)	7/1/2023		\$45.70	\$34.77	\$80.47
Laborers (Class 01 - See notes)	5/1/2022		\$33.35	\$25.65	\$59.00
Laborers (Class 01 - See notes)	5/1/2023		\$34.60	\$25.80	\$60.40
Laborers (Class 02 - See notes)	5/1/2023		\$37.95	\$27.30	\$65.25
Laborers (Class 02 - see notes)	5/1/2022		\$36.70	\$27.00	\$63.70
Laborers (Class 03 - See notes)	5/1/2022		\$33.77	\$25.83	\$59.60
Laborers (Class 03 - See notes)	5/1/2023		\$35.02	\$25.98	\$61.00
Laborers (Class 04 - See notes)	5/1/2022		\$33.77	\$25.83	\$59.60
Laborers (Class 04 - See notes)	5/1/2023		\$35.02	\$25.98	\$61.00
Laborers (Class 05 - See notes)	5/1/2022		\$33.35	\$25.65	\$59.00
Laborers (Class 05 - See notes)	5/1/2023		\$34.60	\$25.50	\$60.10
Landscape Laborer	5/1/2020		\$26.55	\$23.13	\$49.68
Landscape Laborer	5/1/2023		\$29.45	\$23.98	\$53.43
Marble Finisher	5/1/2022		\$38.27	\$29.15	\$67.42
Marble Finisher	5/1/2023		\$39.52	\$29.30	\$68.82
Marble Mason	5/1/2022		\$45.90	\$31.20	\$77.10
Marble Mason	5/1/2023		\$47.20	\$31.95	\$79.15
Mason Tender, Cement	5/1/2019		\$30.52	\$25.98	\$56.50
Mason Tender, Cement	5/1/2023		\$35.02	\$25.98	\$61.00
Millwright	5/1/2023		\$51.60	\$35.81	\$87.41
Millwright	5/1/2024		\$54.67	\$35.81	\$90.48
Millwright	5/1/2025		\$57.39	\$35.81	\$93.20
Millwright	5/1/2026		\$60.20	\$35.81	\$96.01
Operators (Building, Class 01 - See Notes)	5/1/2023		\$52.20	\$32.81	\$85.01
Operators (Building, Class 01A - See Notes)	5/1/2023		\$55.20	\$33.70	\$88.90
Operators (Building, Class 02 - See Notes)	5/1/2023		\$51.95	\$32.74	\$84.69
Operators (Building, Class 02A - See Notes)	5/1/2023		\$54.97	\$33.61	\$88.58
Operators (Building, Class 03 - See Notes)	5/1/2023		\$47.87	\$31.53	\$79.40
Operators (Building, Class 04 - See Notes)	5/1/2023		\$47.57	\$31.44	\$79.01
Operators (Building, Class 05 - See Notes)	5/1/2023		\$45.85	\$30.93	\$76.78
Operators (Building, Class 06 - See Notes)	5/1/2023		\$44.85	\$30.65	\$75.50
Operators (Building, Class 07A- See Notes)	5/1/2023		\$63.33	\$37.68	\$101.01
Operators (Building, Class 07B- See Notes)	5/1/2023		\$63.04	\$37.59	\$100.63
Painters Class 1 (see notes)	5/1/2023		\$42.32	\$32.91	\$75.23
Painters Class 4 (see notes)	5/1/2023		\$44.41	\$32.91	\$77.32
Plasterers	5/1/2021		\$38.37	\$31.84	\$70.21
Plasterers	5/1/2023		\$39.32	\$32.64	\$71.96
plumber	5/1/2023		\$64.73	\$37.61	\$102.34
Pointers, Caulkers, Cleaners	5/1/2022		\$47.64	\$30.06	\$77.70
Pointers, Caulkers, Cleaners	5/1/2023		\$48.80	\$30.70	\$79.50

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 23-05866 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Roofers (Composition)	5/1/2023		\$42.63	\$34.62	\$77.25
Roofers (Shingle)	5/1/2021		\$30.50	\$21.55	\$52.05
Roofers (Slate & Tile)	5/1/2021		\$33.50	\$21.55	\$55.05
Sheet Metal Workers	5/1/2022		\$55.75	\$47.28	\$103.03
Sheet Metal Workers	5/1/2023		\$57.31	\$48.97	\$106.28
Sign Makers and Hangars	7/15/2022		\$30.54	\$24.35	\$54.89
Sprinklerfitters	1/1/2023		\$62.23	\$31.99	\$94.22
Steamfitters	5/1/2023		\$67.37	\$41.99	\$109.36
Stone Masons	5/1/2022		\$45.90	\$31.20	\$77.10
Stone Masons	5/1/2023		\$47.20	\$31.95	\$79.15
Terrazzo Finisher	5/1/2022		\$42.44	\$27.71	\$70.15
Terrazzo Finisher	5/1/2023		\$43.75	\$27.86	\$71.61
Terrazzo Grinder	5/1/2022		\$42.71	\$27.71	\$70.42
Terrazzo Grinder	5/1/2023		\$44.02	\$27.86	\$71.88
Terrazzo Mechanics	5/1/2022		\$48.81	\$29.46	\$78.27
Terrazzo Mechanics	5/1/2023		\$50.26	\$29.56	\$79.82
Tile Finisher	5/1/2022		\$38.27	\$29.15	\$67.42
Tile Finisher	5/1/2023		\$39.52	\$29.30	\$68.82
Tile Setter	5/1/2022		\$48.81	\$29.46	\$78.27
Tile Setter	5/1/2023		\$50.26	\$29.56	\$79.82
Truckdriver class 1(see notes)	5/1/2022		\$35.60	\$20.74	\$56.34
Truckdriver class 1(see notes)	5/1/2023		\$36.29	\$21.55	\$57.84
Truckdriver class 2 (see notes)	5/1/2022		\$35.70	\$20.74	\$56.44
Truckdriver class 2 (see notes)	5/1/2023		\$36.39	\$21.55	\$57.94
Truckdriver class 3 (see notes)	5/1/2022		\$35.95	\$20.74	\$56.69
Truckdriver class 3 (see notes)	5/1/2023		\$36.64	\$21.55	\$58.19
Window Film / Tint Installer	6/1/2019		\$24.52	\$12.08	\$36.60

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 23-05866 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Carpenter - Chief of Party (Surveying & Layout)	5/1/2023		\$63.24	\$29.06	\$92.30
Carpenter - Chief of Party (Surveying & Layout)	5/1/2024		\$65.19	\$29.06	\$94.25
Carpenter - Chief of Party (Surveying & Layout)	5/1/2025		\$67.15	\$29.06	\$96.21
Carpenter - Chief of Party (Surveying & Layout)	5/1/2026		\$69.10	\$29.06	\$98.16
Carpenter - Instrument Person (Surveying & Layout)	5/1/2023		\$54.99	\$29.06	\$84.05
Carpenter - Instrument Person (Surveying & Layout)	5/1/2024		\$56.69	\$29.06	\$85.75
Carpenter - Instrument Person (Surveying & Layout)	5/1/2025		\$58.39	\$29.06	\$87.45
Carpenter - Instrument Person (Surveying & Layout)	5/1/2026		\$60.09	\$29.06	\$89.15
Carpenter - Rodman (Surveying & Layout)	5/1/2023		\$43.99	\$22.41	\$66.40
Carpenter - Rodman (Surveying & Layout)	5/1/2024		\$45.35	\$22.41	\$67.76
Carpenter - Rodman (Surveying & Layout)	5/1/2025		\$46.71	\$22.41	\$69.12
Carpenter - Rodman (Surveying & Layout)	5/1/2026		\$48.07	\$22.41	\$70.48
Carpenter	5/1/2023		\$54.99	\$29.06	\$84.05
Carpenter	5/1/2024		\$56.69	\$29.06	\$85.75
Carpenter	5/1/2025		\$58.49	\$29.06	\$87.55
Carpenter	5/1/2026		\$60.19	\$29.06	\$89.25
Cement Masons	5/1/2023		\$43.20	\$32.91	\$76.11
Dockbuilder, Pile Drivers	5/1/2023		\$50.48	\$37.99	\$88.47
Dockbuilder, Pile Drivers	5/1/2024		\$52.98	\$37.99	\$90.97
Dockbuilder, Pile Drivers	5/1/2025		\$55.23	\$37.99	\$93.22
Dockbuilder, Pile Drivers	5/1/2026		\$56.98	\$37.99	\$94.97
Dockbuilder/Pile Driver Diver	5/1/2023		\$58.41	\$41.74	\$100.15
Dockbuilder/Pile Driver Diver	5/1/2024		\$61.54	\$41.74	\$103.28
Dockbuilder/Pile Driver Diver	5/1/2025		\$64.35	\$41.74	\$106.09
Dockbuilder/Pile Driver Diver	5/1/2026		\$66.54	\$41.74	\$108.28
Dockbuilder/pile driver tender	5/1/2023		\$50.48	\$37.99	\$88.47
Dockbuilder/pile driver tender	5/1/2024		\$52.98	\$37.99	\$90.97
Dockbuilder/pile driver tender	5/1/2025		\$55.23	\$37.99	\$93.22
Dockbuilder/pile driver tender	5/1/2026		\$56.98	\$37.99	\$94.97
Electric Lineman	5/30/2022		\$59.17	\$31.48	\$90.65
Electric Lineman	5/29/2023		\$60.48	\$32.77	\$93.25
Electric Lineman	6/3/2024		\$62.07	\$33.96	\$96.03
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	1/1/2023		\$50.70	\$39.51	\$90.21
Ironworker (Rodman)	7/1/2020		\$44.82	\$31.60	\$76.42
Laborers (Class 01 - See notes)	5/1/2022		\$36.30	\$27.20	\$63.50
Laborers (Class 01 - See notes)	5/1/2023		\$37.55	\$27.45	\$65.00
Laborers (Class 02 - See notes)	5/1/2022		\$36.50	\$27.20	\$63.70
Laborers (Class 02 - See notes)	5/1/2023		\$37.75	\$27.45	\$65.20
Laborers (Class 03 - See notes)	5/1/2022		\$36.50	\$27.20	\$63.70
Laborers (Class 03 - See notes)	5/1/2023		\$37.75	\$27.45	\$65.20
Laborers (Class 04 - See notes)	5/1/2022		\$31.10	\$27.20	\$58.30
Laborers (Class 04 - See notes)	5/1/2023		\$32.35	\$27.45	\$59.80
Laborers (Class 05 - See notes)	5/1/2022		\$37.15	\$27.20	\$64.35
Laborers (Class 05 - See notes)	5/1/2023		\$38.40	\$27.45	\$65.85

BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 23-05866 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Laborers (Class 06 - See notes)	5/1/2022		\$37.20	\$27.20	\$64.40
Laborers (Class 06 - See notes)	5/1/2023		\$38.40	\$27.45	\$65.85
Laborers (Class 07 - See notes)	5/1/2022		\$37.05	\$27.20	\$64.25
Laborers (Class 07 - See notes)	5/1/2023		\$38.30	\$27.45	\$65.75
Laborers (Class 08 - See notes)	5/1/2022		\$36.80	\$27.20	\$64.00
Laborers (Class 08 - See notes)	5/1/2023		\$38.05	\$27.45	\$65.50
Laborers (Class 09 - See notes)	5/1/2022		\$36.65	\$27.20	\$63.85
Laborers (Class 09 - See notes)	5/1/2023		\$37.90	\$27.45	\$65.35
Laborers (Class 10- See notes)	5/1/2022		\$36.80	\$27.20	\$64.00
Laborers (Class 10- See notes)	5/1/2023		\$38.05	\$27.45	\$65.50
Laborers (Class 11 -See Notes)	5/1/2022		\$36.70	\$27.20	\$63.90
Laborers (Class 11 -See Notes)	5/1/2023		\$37.95	\$27.45	\$65.40
Laborers (Class 12 -See Notes)	5/1/2022		\$38.40	\$27.20	\$65.60
Laborers (Class 12 -See Notes)	5/1/2023		\$39.65	\$27.45	\$67.10
Laborers (Class 13 -See Notes)	5/1/2022		\$40.43	\$27.20	\$67.63
Laborers (Class 13 -See Notes)	5/1/2023		\$41.65	\$27.45	\$69.10
Laborers (Class 14 -See Notes)	5/1/2022		\$36.55	\$27.20	\$63.75
Laborers (Class 14 -See Notes)	5/1/2023		\$38.25	\$27.45	\$65.70
Laborers Utility (PGW ONLY) (Flagperson)	5/1/2022		\$30.17	\$19.18	\$49.35
Laborers Utility (PGW ONLY) (Flagperson)	5/1/2023		\$31.42	\$19.43	\$50.85
Laborers Utility (PGW ONLY)	5/1/2022		\$37.20	\$19.18	\$56.38
Laborers Utility (PGW ONLY)	5/1/2023		\$38.45	\$19.43	\$57.88
Landscape Laborer	5/1/2022		\$27.73	\$23.65	\$51.38
Landscape Laborer	5/1/2023		\$29.03	\$23.80	\$52.83
Millwright	5/1/2023		\$51.60	\$35.81	\$87.41
Millwright	5/1/2024		\$54.67	\$35.81	\$90.48
Millwright	5/1/2025		\$57.39	\$35.81	\$93.20
Millwright	5/1/2026		\$60.20	\$35.81	\$96.01
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2023		\$52.20	\$32.81	\$85.01
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2024		\$53.36	\$33.65	\$87.01
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2025		\$54.52	\$34.49	\$89.01
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2026		\$55.67	\$35.34	\$91.01
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2023		\$55.20	\$33.70	\$88.90
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2024		\$56.37	\$34.53	\$90.90
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2025		\$57.52	\$35.38	\$92.90
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2026		\$58.68	\$36.22	\$94.90
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2023		\$51.95	\$32.74	\$84.69
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2024		\$53.11	\$33.58	\$86.69

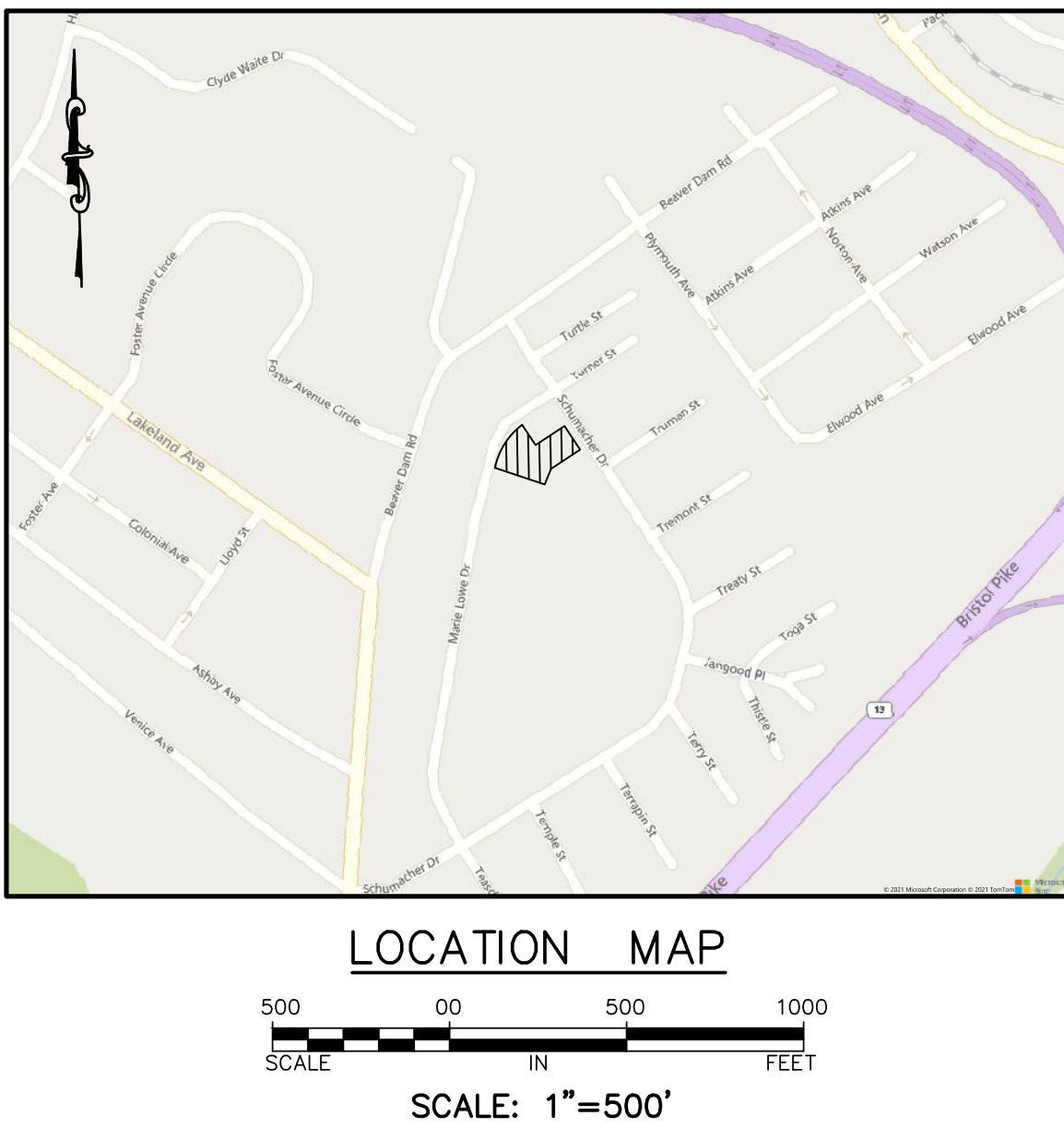
BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 23-05866 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2025		\$54.27	\$34.42	\$88.69
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2026		\$55.43	\$35.26	\$90.69
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2023		\$54.97	\$33.61	\$88.58
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2024		\$56.13	\$34.45	\$90.58
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2025		\$57.29	\$35.29	\$92.58
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2026		\$58.44	\$36.14	\$94.58
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2023		\$47.87	\$31.53	\$79.40
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2024		\$49.03	\$32.37	\$81.40
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2025		\$50.18	\$33.22	\$83.40
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2026		\$51.34	\$34.06	\$85.40
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2023		\$47.57	\$31.44	\$79.01
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2024		\$48.73	\$32.28	\$81.01
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2025		\$49.88	\$33.13	\$83.01
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2026		\$51.04	\$33.97	\$85.01
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2023		\$45.85	\$30.93	\$76.78
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2024		\$47.00	\$31.78	\$78.78
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2025		\$48.16	\$32.62	\$80.78
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2026		\$49.32	\$33.46	\$82.78
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2023		\$44.85	\$30.65	\$75.50
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2024		\$46.02	\$31.48	\$77.50
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2025		\$47.17	\$32.33	\$79.50
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2026		\$48.34	\$33.16	\$81.50
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2023		\$63.33	\$37.68	\$101.01
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2024		\$64.80	\$38.61	\$103.41
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2025		\$66.26	\$39.55	\$105.81
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2026		\$67.73	\$40.48	\$108.21
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2023		\$63.04	\$37.59	\$100.63

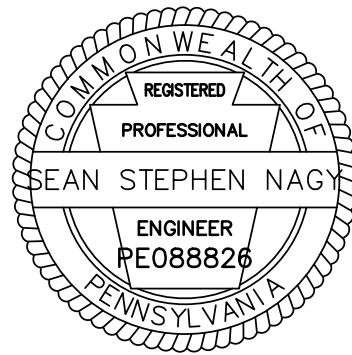
BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGES PROJECT RATES

Project: 23-05866 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2024		\$64.50	\$38.53	\$103.03
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2025		\$65.97	\$39.46	\$105.43
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2026		\$67.44	\$40.39	\$107.83
Painters Class 2 (see notes)	2/1/2023		\$48.82	\$32.09	\$80.91
Painters Class 3 (see notes)	2/1/2023		\$59.78	\$32.13	\$91.91
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2022		\$61.34	\$40.28	\$101.62
Steamfitters	5/1/2018		\$56.37	\$34.39	\$90.76
Truckdriver class 1(see notes)	5/1/2022		\$35.45	\$20.74	\$56.19
Truckdriver class 1(see notes)	5/1/2023		\$36.14	\$21.55	\$57.69
Truckdriver class 2 (see notes)	5/1/2022		\$35.55	\$20.74	\$56.29
Truckdriver class 2 (see notes)	5/1/2023		\$36.24	\$21.55	\$57.79
Truckdriver class 3 (see notes)	5/1/2022		\$35.80	\$20.74	\$56.54
Truckdriver class 3 (see notes)	5/1/2023		\$36.49	\$21.55	\$58.04

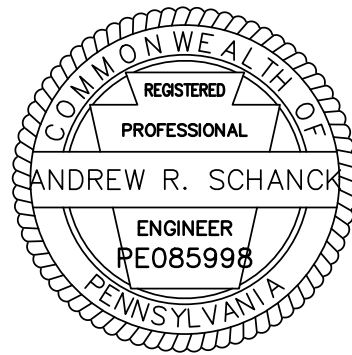
PUBLIC IMPROVEMENTS
FOR
BRISTOL TOWNSHIP
MARIE LOWE DRIVE COMMUNITY
CENTER
BRISTOL TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA



Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	GENERAL NOTES
3	EXISTING CONDITIONS & DEMOLITION PLAN
4	MATERIALS & LAYOUT PLAN
5	GRADING-DRAINAGE & EROSION CONTROL
6	GRADING AND DRAINAGE DETAILS
7	EROSION & SEDIMENT CONTROL DETAILS
8	EROSION AND SEDIMENT CONTROL NOTES
9	SITE DETAILS
10	SITE DETAILS 2



DATE: 05/31/2022



DATE: 05/31/2022

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES
LUXEMBOURG CORPORATE CENTER
508 CORPORATE DRIVE WEST, LANGHORNE, PA 19047 • (215) 389-3955 • www.gilmore-assoc.com

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES
PROJECT NUMBER: 21-07025

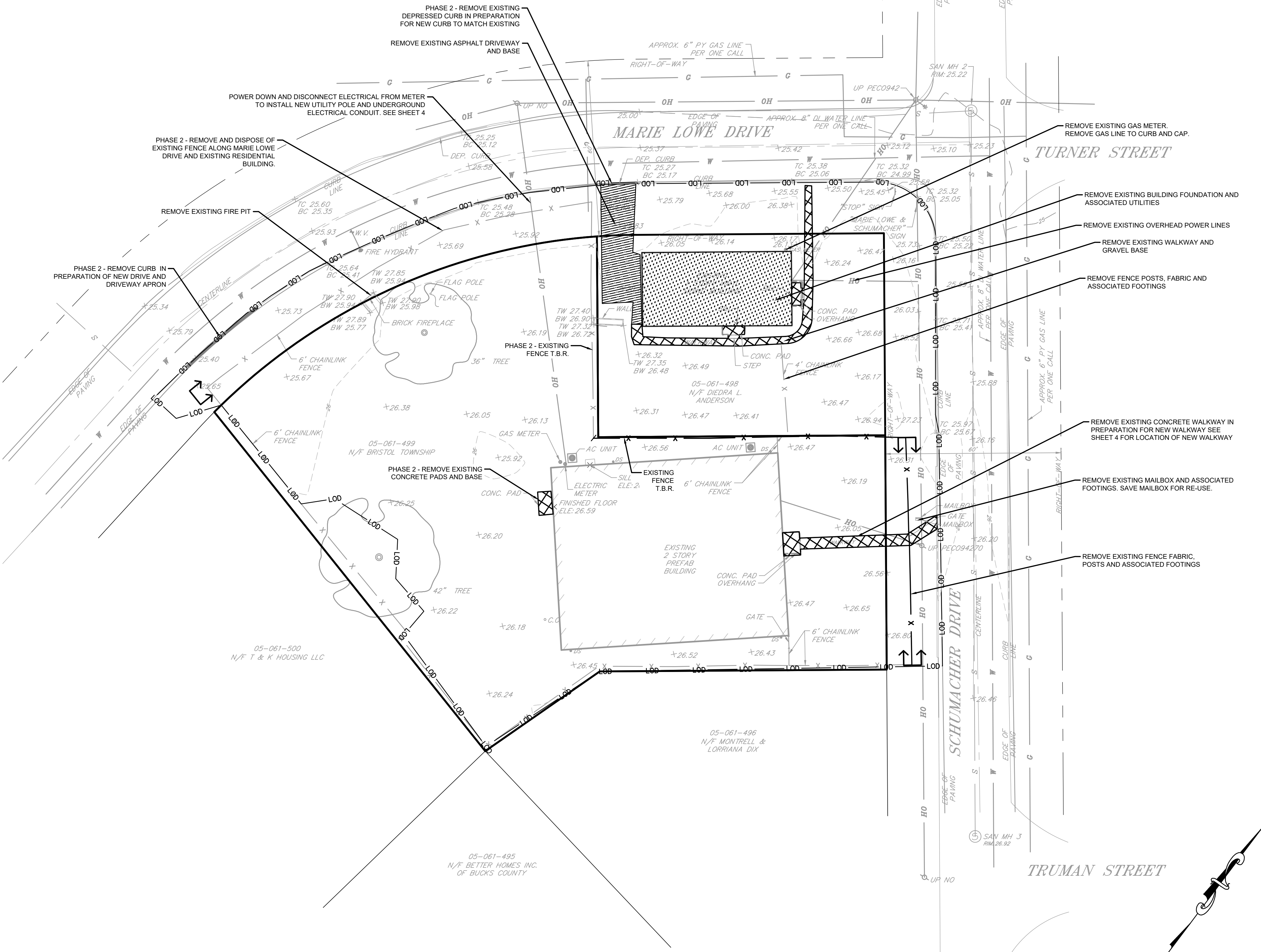
PLAN DATE: 5/5/2022
LAST REVISED: 5/5/2022

SHEET NO.:
1 OF 10

T:\municipal\Bristol Township\2021\2107025-BT_1248 Marie Lowe Drive Community Center - Public Improvements\02 DRAWING FILES\CAD\Production Drawings\2107025-General Notes.dwg Layout: GENERAL NOTES Plotted By: dkennedy, on Mon Jul 10, 2023 at 1:14pm

GENERAL NOTES:		GRADING AND DRAINAGE NOTES:		DEMOLITION NOTES:	
<div><div><div>1. THESE GENERAL NOTES APPLY TO ALL PLANS, SPECIFICATIONS, AND WORK ASSOCIATED WITH THIS PROJECT.</div><div>2. EXISTING FEATURES BACKGROUND AND EXISTING CONDITIONS INFORMATION IS BASED UPON SURVEY PERFORMED BY GILMORE & ASSOCIATES IN 2021. ALL LOCATIONS ARE TO BE CONSIDERED APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. NO DIGGING OR EXCAVATIONS WERE DONE IN THE PREPARATION OF THE EXISTING FEATURES BACKGROUND OR EXISTING CONDITIONS INFORMATION, THEREFORE, ALL UNDERGROUND UTILITIES SHOWN OR DEPICTED SHOULD BE CONSIDERED APPROXIMATE IN LOCATION, DEPTH AND SIZE. THE POTENTIAL EXISTS FOR OTHER UNDERGROUND UTILITIES AND OR FACILITIES NOT SHOWN HEREON. ALL THE DESIGNERS AND CONTRACTORS UTILIZING THIS PLAN AND THE INFORMATION CONTAINED HEREON ARE CAUTIONED TO COMPLY WITH THE REQUIREMENTS OF PENNSYLVANIA ACT 187, HOUSE BILL 2627, AMENDING THE ACT OF DECEMBER 17, 1974 (P.L.852, NO. 287) PN 1460 1996 EFFECTIVE 12/19/96.</div><div>3. LOCATIONS OF EXISTING UNDERGROUND UTILITIES/FACILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM RECORDS. NO EXCAVATIONS WERE PERFORMED IN THE PREPARATION OF THESE DRAWINGS; THEREFORE ALL UTILITIES SHOWN SHOULD BE CONSIDERED APPROXIMATE IN LOCATION, DEPTH, AND SIZE. THE POTENTIAL EXISTS FOR OTHER UNDERGROUND UTILITIES/FACILITIES TO BE PRESENT WHICH ARE NOT SHOWN ON THE DRAWINGS. ONLY THE VISIBLE LOCATIONS OF UNDERGROUND UTILITIES/FACILITIES AT THE TIME OF FIELD SURVEY SHALL BE CONSIDERED TRUE AND ACCURATE. COMPLETENESS OR ACCURACY OF UNDERGROUND UTILITIES/FACILITIES ARE NOT GUARANTEED BY GILMORE & ASSOCIATES INC.</div><div>4. ALL CONTRACTORS WORKING ON THIS PROJECT SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES/FACILITIES PRIOR TO START OF WORK AND SHALL COMPLY WITH THE REQUIREMENTS OF P.L. 852, NO. 287 DECEMBER 10, 1974 AS LAST AMENDED ON MARCH 29, 2007, PENNSYLVANIA ACT 181. GILMORE & ASSOCIATES INC. HAS OBTAINED A PA-ONE CALL SERIAL NUMBERS 20212180785,20212180799 FOR DESIGN PURPOSES ONLY.</div><div>5. SITE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. CONTRACTOR SHALL CONTACT THE PA ONE CALL SYSTEM AT 1-800-242-1776 AT LEAST 3-WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK.</div><div>6. DO NOT SCALE DRAWINGS. ALL MEASUREMENTS SHALL BE TAKEN FROM DIMENSIONS SHOWN ON THE DRAWING. WHERE DIMENSIONS BETWEEN SMALL SCALE AND DETAIL DRAWINGS DIFFER, NOTIFY THE DESIGN PROFESSIONAL FOR CLARIFICATION. FIELD VERIFY ALL DIMENSIONS AND NOTIFY DESIGN PROFESSIONAL OF ANY DISCREPANCIES.</div><div>7. INSTALL ALL MANUFACTURED ITEMS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS COMPLETE WITH ALL ITEMS AND COMPONENTS AS REQUIRED FOR A COMPLETE INSTALLATION.</div><div>8. ALL CONTRACTORS WORKING ON THIS PROJECT SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION ACTIVITIES RELATED TO THIS PROJECT ARE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE O.S.H.A. (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) STANDARDS.</div><div>9. THE GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR ARE RESPONSIBLE FOR PROVIDING THE APPROPRIATE CONTRACT DOCUMENTS (PLANS, SPECIFICATIONS, AND OTHER INFORMATION) TO THE VARIOUS SUBCONTRACTORS AND TRADES IN ORDER FOR THEM TO COORDINATE AND PERFORM THE WORK.</div><div>10. THE GENERAL, ELECTRICAL, AND/OR MEP CONTRACTOR AND SUBCONTRACTORS SHALL COORDINATE AND COMPLY WITH ALL UTILITY COMPANY REGULATIONS AND REQUIREMENTS FOR UTILITIES AFFECTED BY THE PROJECT AND PAY ALL REQUIRED FEES AND COSTS ASSOCIATED WITH THOSE UTILITIES.</div><div>11. THE CONTRACTOR(S) SHALL OBTAIN ALL PERMITS RELATING TO THIS PROJECT PRIOR TO CONSTRUCTION.</div><div>12. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS TO MEET ALL OF THE REQUIREMENTS OF FEDERAL, STATE, AND LOCAL AUTHORITIES, HEALTH DEPARTMENT, AND UTILITY COMPANIES IN ADDITION TO THE INFORMATION STATED IN THESE PLANS, THE SPECIFICATIONS, AND THE CONTRACT DOCUMENTS.</div><div>13. IN THE CASE OF CONFLICT BETWEEN ANY PART OF THESE PLANS, THE SPECIFICATIONS, OR THE CONTRACT DOCUMENTS, OR IF DISCREPANCIES ARE DISCOVERED THE CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONAL IMMEDIATELY BY PHONE AND IN WRITING AND SHALL REQUEST A WRITTEN DETERMINATION PRIOR TO PROCEEDING WITH THE WORK INVOLVED. IF THE WORK PROCEEDS WITH THE KNOWLEDGE OF A DISCREPANCY AND WITHOUT A WRITTEN DETERMINATION, SUCH WORK WILL NOT BE CONSIDERED IN COMPLIANCE WITH THESE PLANS, THE SPECIFICATIONS, AND CONTRACT DOCUMENTS.</div><div>14. ALL WORK WITHIN A RIGHT OF WAY (R.O.W.) OR EASEMENT SHALL BE DONE IN ACCORDANCE WITH THE AGENCY OR ENTITY HAVING JURISDICTION OR OWNERSHIP OF THAT R.O.W. OR EASEMENT. CONTRACTOR SHALL OBTAIN ALL PERMITS, APPROVALS, INSPECTIONS, ETC. FROM THE AGENCY OF ENTITY HAVING JURISDICTION FOR THIS WORK.</div><div>15. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR(S) TO PROTECT EXISTING STRUCTURES AND FACILITIES, INCLUDING UTILITIES, NOT DESIGNATED FOR DEMOLITION OR REPLACEMENT/UPGRADE SUCH AS BUILDINGS, PIPES, INLETS/MANHOLES, CABLES/WIRES, CONDUITS, APRONS, PAVEMENTS, BRIDGES, UTILITIES, TREES, ETC. FROM DAMAGE WHICH MIGHT OCCUR DURING CONSTRUCTION. EXTREME CARE SHALL BE TAKEN IN UNDERCUT AREAS. THE CONTRACTOR(S) SHALL REPLACE OR REPAIR, AS DIRECTED BY THE INSPECTOR OR DESIGN PROFESSIONAL, ANY STRUCTURES OR FACILITIES DAMAGED DURING CONSTRUCTION/THE LIFE OF THE CONTRACT. NO PAYMENT WILL BE MADE FOR REPLACEMENT OR REPAIR OF DAMAGED ITEMS.</div><div>16. THE CONTRACTOR(S) SHALL PROVIDE POSITIVE PROTECTION (MAT/SHEET COVERINGS) FOR ALL EXPOSED EXCAVATIONS TO PROTECT FROM INSTABILITY AND DETERIORATION DUE TO RAIN, WIND OR SNOW/ICE.</div><div>17. THE CONTRACTOR SHALL PROVIDE SURFACE DRAINAGE CHANNELS OR DIVISION DIKES, SUMPS AND SUMP PUMPS AND/OR OTHER DEWATERING MEASURES AS REQUIRED TO PROTECT ALL EXCAVATIONS FROM FLOODING. FLOODING OF ANY EXCAVATION OF THE SUBGRADE WILL BE CAUSE FOR COMPLETE REPREPARATION AND REAPPROVAL OF THE SUBGRADE.</div><div>18. ALL ORGANIC, WET, SOFT AND/OR OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM PAVEMENT SUBGRADE AND BACKFILLED WITH SUITABLE GRANULAR, FREE DRAINING MATERIAL. NO PAVEMENTS OR SLABS SHALL BE PLACED ONTO SUBGRADE CONTAINING FREE WATER, FROST OR ICE. SHOULD WATER OR FROST ENTER AN EXPOSED EXCAVATION AFTER SUBGRADE APPROVAL, THE SUBGRADE SHALL BE REINSPECTED BY THE INDEPENDENT TESTING AND INSPECTION AGENCY AFTER REMOVAL OF WATER OR FROST.</div><div>19. THE CONTRACTOR(S) SHALL MAINTAIN ALL EROSION CONTROLS DURING CONSTRUCTION, AND COMPLY WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLANS AND ASSOCIATED PERMIT REQUIREMENTS.</div><div>20. THE CONTRACTOR(S) SHALL ERECT PROTECTIVE DEVICES, SUCH AS TEMPORARY CHAIN-LINK FENCING, TO PROTECT THE SITE FROM UNAUTHORIZED PERSONS FROM ENTERING THE WORK SITE.</div><div>21. THE CONTRACTOR(S) ARE RESPONSIBLE FOR THE PROTECTION OF EXISTING TREES TO REMAIN. NO EQUIPMENT, MATERIALS, SOIL, OR OTHER DEBRIS SHALL BE STORED UNDER THE DRIPINE OF THE TREE. IF TREES ARE DAMAGED, ITEMS ARE STORED, OR AREA UNDER THE DRIP IS DISTURBED, OTHER THAN DISTURBANCE CALLED FOR ON THE PLANS, IT IS THE CONTRACTORS RESPONSIBLTY CORRECT THE DAMAGE TO THE SATISFACTION OF THE DESIGN PROFESSIONAL.</div><div>22. IF IT BECOMES NECESSARY TO CLOSE A PORTION OF THE ADJACENT STREET OR SIDEWALK DURING CONSTRUCTION, THE CONTRACTOR(S) SHALL NOTIFY THE LOCAL AUTHORITY HAVING JURISDICTION. THE CONTRACTOR(S) SHALL OBTAIN ALL PERMITS REQUIRED FOR THIS WORK OR CLOSURE.</div><div>23. THE CONTRACTOR(S) SHALL KEEP ALL PUBLIC AREAS CLEAN OF DEBRIS ON A DAILY BASIS.</div><div>24. ALL MATERIAL REMOVED FROM THE PROJECT SITE SHALL BE DISPOSED OF IN A LAWFUL MANNER ACCORDING TO APPLICABLE LOCAL, STATE, AND/OR FEDERAL REGULATIONS.</div></div></div>		<div><div><div>1. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.</div><div>2. UNLESS OTHERWISE NOTED, A MAXIMUM SLOPE SHALL NOT EXCEED 3:1 (H:V) OR 33% FOR NON-PAVED SURFACES.</div><div>3. UNLESS OTHERWISE NOTED, ALL WALKWAYS SHALL COMPLY WITH THE MOST RECENT PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT. IF DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR DETERMINES THE SLOPES AND GRADES OF A PROPOSED WALKWAY IS NOT COMPLIANT, THEY ARE TO NOTIFY THE ENGINEER TO ASSESS AND MODIFY THE LAYOUT AS NECESSARY.</div><div>4. GRADE EARTHEN, NON-PAVED, SURFACES TO A SMOOTH FINISH. SLOPE LAWN AREAS IN SWALES TO A GENTLE CROWN ALONG THE CENTERLINE UNLESS OTHERWISE SHOWN.</div><div>5. GRADE ALL SEEDED FINE LAWN AREAS FLUSH WITH FINISH GRADE. ADJUST FINISHED GRADE TO THE PROPER DEPTH WHERE SOD ABUTS PAVED AREAS.</div><div>6. GRADE ALL TREE/SHRUB/GROUNDCOVER PLANTING BEDS TO 3 INCHES BELOW TOP OF ABUTTING CURBS, PAVING, OR LAWN AREAS TO ALLOW FOR MULCHING.</div><div>7. REFER TO PLANTING PLAN FOR ADDITIONAL NOTES.</div><div>8. ADJUST EXISTING AND NEW MANHOLE, CATCH BASINS, AND DRAINS RIM/GRATE ELEVATIONS TO NEW GRADE ELEVATIONS (PAVEMENT OR SOIL).</div><div>9. ELIMINATE ROUGH AND LOW AREAS TO ENSURE POSITIVE DRAINAGE.</div><div>10. PIPE SLOPES ARE APPROXIMATE; CONTRACTOR SHALL USE INVERTS TO INSTALL GRAVITY LINES.</div><div>11. FINISHED SURFACES SHALL BE GRADED SMOOTH AND EVEN WITH NO ABRUPT OR AWKWARD CHANGES IN GRADE. SURFACE FINISHES NOT MEETING THIS STANDARD OR NOT DEEMED ACCEPTABLE BY THE DESIGNER OR OWNER SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. FLATNESS STANDARDS TO BE PER ACI 117 AND OTHER REFERENCED CODES PER THE PLANS AND SPECIFICATIONS.</div><div>12. NOTIFY THE ENGINEER IMMEDIATELY IF SLOPE REQUIREMENTS CANNOT BE MET. AT NO TIME WILL SLOPES IN EXCESS OF THOSE ABOVE THE MAXIMUM ALLOWED WILL BE ACCEPTED, UNLESS PRIOR APPROVAL IS RECEIVED IN WRITING BY THE DESIGNER.</div><div>13. PLANS INDICATE ALL FINISH GRADE ELEVATIONS. PROVIDE SUBGRADE ELEVATIONS AS REQUIRED BY PLANS, DETAILS, OR SPECIFICATIONS. PROVIDE PROPERLY COMPACTED SUBGRADES OF NATIVE SOIL OR APPROVED FILL. SUBGRADES SHALL BE INSPECTED BY A QUALIFIED INSPECTOR TO ENSURE COMPACTION REQUIREMENTS ARE MET. NATIVE SOILS, FILL, OR SUBGRADES DEEMED INSUFFICIENT SHALL BE REMOVED AND REPLACED WITH APPROPRIATE MATERIAL.</div><div>14. COORDINATE GRADING WORK WITH WORK OF OTHER TRADES OR WORK BY OTHERS AS REQUIRED TO COMPLETE THE PROJECT.</div></div></div>		<div><div><div>1. THE CONTRACTOR(S) SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY OWNER, OWNER'S REPRESENTATIVE AND DESIGN PROFESSIONAL OF ANY DESCREPANCIES. COMMENCEMENT WITH ANY WORK MEANS CONTRACTOR HAS ACCEPTED EXISTING AND FIELD CONDITIONS.</div><div>2. IN ACCORDANCE WITH PENNSYLVANIA STATE LAW, NOTIFY ALL UTILITY COMPANIES (1-800-242-1776 PENNSYLVANIA ONE CALL SYSTEM) AT LEAST (3) THREE BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION.</div><div>3. THE CONTRATOR(S) SHALL OBTAIN ALL REQUIRED/PERTINENT PERMITS FOR THIS WORK AND COMPLY AND ADHERE TO ALL APPLICABLE REGULATIONS SET FORTH.</div><div>4. PERFORM DEMOLITION WORK IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND ORDINANCES AND WITH NATIONAL STANDARD SAFETY REQUIREMENTSFOR DEMOLITION.</div><div>5. DO NOT INTERFERE WITH THE USE OF ADJACENT BUILDING OR SITE AREAS.</div><div>6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR(S) TO PROTECT EXISTING STRUCTURES AND FACILITIES, INCLUDING UTILITIES, NOT DESIGNATED FOR DEMOLITION OR REPLACEMENT/UPGRADE SUCH AS BUILDINGS, PIPES, INLETS/MANHOLES, CABLES/WIRES, CONDUITS, APRONS, PAVEMENTS, BRIDGES, UTILITIES, TREES, ETC. FROM DAMAGE WHICH MIGHT OCCUR DURING CONSTRUCTION. EXTREME CARE SHALL BE TAKEN IN UNDERCUT AREAS. THE CONTRACTOR SHALL REPLACE OR REPAIR, AS DIRECTED BY THE DESIGNER, ANY STRUCTURES OR FACILITIES DAMAGED DURING CONSTRUCTION/THE LIFE OF THE CONTRACT. NO PAYMENT WILL BE MADE FOR REPLACEMENT OR REPAIR OF DAMAGED ITEMS.</div><div>7. PREVENT MOVEMENT, SETTLEMENT, OR DAMAGE TO ADJACENT WALKWAYS, PAVEMENT, STRUCTURES, OR OTHER SITE ELEMENTS TO REMAIN. ANY MOVEMENT, DAMAGE, OR SETTLEMENT THAT OCCURS SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.</div><div>8. PROTECT ALL EXISTING PLANT MATERIALS FROM DAMAGE UNLESS THEY ARE INDICATED TO BE REMOVED. DO NOT PARK OR STORE CONSTRUCTION VEHICLES, EQUIPMENT, AND/OR MATERIALS UNDER THE CANOPY (WITHIN THE DRIP LINE) OF ANY TREE TO REMAIN. ANY DAMAGE SHALL BE REPAIRED OR THE PLANT MATERIAL REPLACED WITH PLANTS OF THE SAME SIZE BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. ANY REPLACEMENT PLANT MATERIAL SHALL BE APPROVED BY THE ENGINEER.</div><div>9. PROVIDE, ERECT AND MAINTAIN BARRICADE AND LIGHTING AS REQUIRED BY APPLICABLE REGULATION TO PROTECT OCCUPANTS OF BUILDING/FACILITY AND WORKERS.</div><div>10. DEMOLISH AND REMOVE WORK IN A MANNER WHICH ALLOWS FOR INTRODUCTION OF NEW ADJACENT WORK WITHOUT DAMAGING EDGE CONDITIONS TO THE EXISTING WORK.</div><div>11. DEMOLITION OF EXISTING UTILITIES INCLUDES THE REMOVAL OF PIPE, UTILITY STRUCTURES, DRAINS, MANHOLES, ENCASEMENT, FITTINGS, VALVES, ETC.</div><div>12. DISPOSE OF ALL UNUSABLE MATERIAL AND DEBRIS RESULTING FROM THE WORK OFF OF THE SITE AND THE WORK AREAS CLEAN AND READY FOR NEW WORK.</div><div>13. MAINTAIN UTILITY SERVICES TO ACTIVE EXISTING BUILDINGS AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PERIOD. COORDINATE WITH THE OWNER AND UTILITY PROVIDERS FOR ALL SHUTDOWNS FOR UTILITY CONNECTION AND RELOCATION WORK.</div><div>14. ALL UTILITIES NOT SCHEDULED/INDICATED FOR DEMOLITION WITHIN THE LIMIT OF DEMOLITION/WORK AREA SHALL BE PROTECTED AND MAINTAINED DURING CONSTRUCTION.</div><div>15. SEE EROSION AND SEDIMENTATION CONTROL PLANS, NOTES AND DETAILS FOR EROSION CONTROL MEASURES AND CONSTRUCTION SEQUENCE.</div><div>16. ALL MATERIALS DEMOLISHED, UNLESS IDENTIFIED TO BE SAVED OR SALVAGED (CONCRETE, PAVING, ROOT MAT, FENCING AND ALL OTHER DEBRIS) SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PER FEDERAL, STATE, AND LOCAL REGULATIONS. ALL COSTS OF HAULING, DISPOSAL, AND TIPPING FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR AS PART OF THE BASE BID.</div><div>17. ALL MATERIALS IDENTIFIED TO BE SALVAGED SHALL BE REMOVED WITH CARE TO PREVENT AND MINIMIZE DAMAGE AND SHALL BE STORED ON-SITE FOR REUSE OR FOR RETRIEVAL BY OWNER OR THE OWNER'S REPRESENTATIVE.</div><div>18. ALL QUANTITIES OF DEMOLITION SHALL BE DETERMINED BY THE CONTRACTOR AND COVERED IN THE BASE BID. CONTRACTOR SHALL MAKE NECESSARY SITE INSPECTIONS PRIOR TO BID TO VERIFY ALL QUANTITIES AND CONDITIONS TO HIS/HER SATISFACTION.</div><div>19. SAWCUT AND TRIM ALL EXISTING CONCRETE AND ASPHALT PAVEMENT EDGES PRIOR TO INSTALLING NEW PAVING. ENDS OF DAILY NEW ASPHALT PAVEMENT INSTALLATIONS SHALL BE SAWCUT AND TRIMMED NEATLY TO RECEIVE AND INTERSECT NEXT AREA OF NEW ASPHALT PAVEMENT.</div><div>20. ALL EXCAVATED MATERIALS REMOVED FROM THE SITE SHALL BE DISPOSED OF IN A LAWFUL MANNER.</div></div></div>	
<div><div><div>OWNER: BRISTOL TOWNSHIP 2501 BATH ROAD BRISTOL, PA 19007 215--785-0500</div><div>TOTAL AREA: .51 AC DATE: 5/5/2022</div><div>TOTAL LOTS: 1 SCALE: 1"=20'</div></div></div>		<div><div><div>TAX MAP PARCEL NO.: 05--061--499/498</div><div>MUNICIPAL FILE NO.: NOT APPLICABLE</div></div></div>		<div><div><div>LOBB NO.: 21--07025</div><div>DESIGNED BY: LCR/MDS</div></div><div><div><div>0</div><div>20</div><div>40</div></div><div><div>FEET</div><div>IN</div><div>SCALE</div></div></div><div><div><div>DRAWN BY: LCR/MDS</div><div>CHECKED BY: RMS</div></div></div></div>	
<div><div><div>PUBLIC IMPROVEMENTS GENERAL NOTES</div><div>MARIE LOWE DRIVE COMMUNITY CENTER</div></div></div>					
<div><div><div>REVISIONS</div><div>DESCRIPTION</div></div></div>		<div><div><div>BY:</div><div>DATE</div></div></div>			
<div><div><div>SHEET NO.:</div><div>2 OF 10</div></div></div>					

T:\municipal\Bristol Township\2021\2107025-BT-1248 Marie Lowe Drive Community Center - Public Improvements\02 DRAWING FILES\CAD\Production Drawings\2107025-EXISTING CONDITIONS AND DEMO.dwg Layout: EXISTING CONDITIONS & DEMOLITION PLAN Plotted By: skennedy, on Mon Jul 10, 2023 at 1:14pm



1 EXISTING CONDITIONS AND DEMOLITION PLAN

LOCATIONS OF EXISTING UNDERGROUND UTILITIES/FACILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM RECORDS, FIELD MARKOUTS BY UTILITY OWNERS, AND/OR ABOVE-GROUND OBSERVATION OF THE SITE. NO EXCAVATIONS WERE PERFORMED IN THE PREPARATION OF THESE DRAWINGS. THEREFORE ALL UTILITIES SHOWN SHOULD BE CONSIDERED APPROXIMATE IN LOCATION, DEPTH, AND SIZE. THE POTENTIAL EXISTS FOR OTHER UNDERGROUND UTILITIES/FACILITIES TO BE PRESENT WHICH ARE NOT SHOWN ON THE DRAWINGS. ONLY THE VISIBLE LOCATIONS OF UNDERGROUND UTILITIES/FACILITIES AT THE TIME OF FIELD SURVEY SHALL BE CONSIDERED TRUE AND ACCURATE. COMPLETENESS OR ACCURACY OF UNDERGROUND UTILITIES/FACILITIES ARE NOT GUARANTEED BY GILMORE & ASSOCIATES INC.

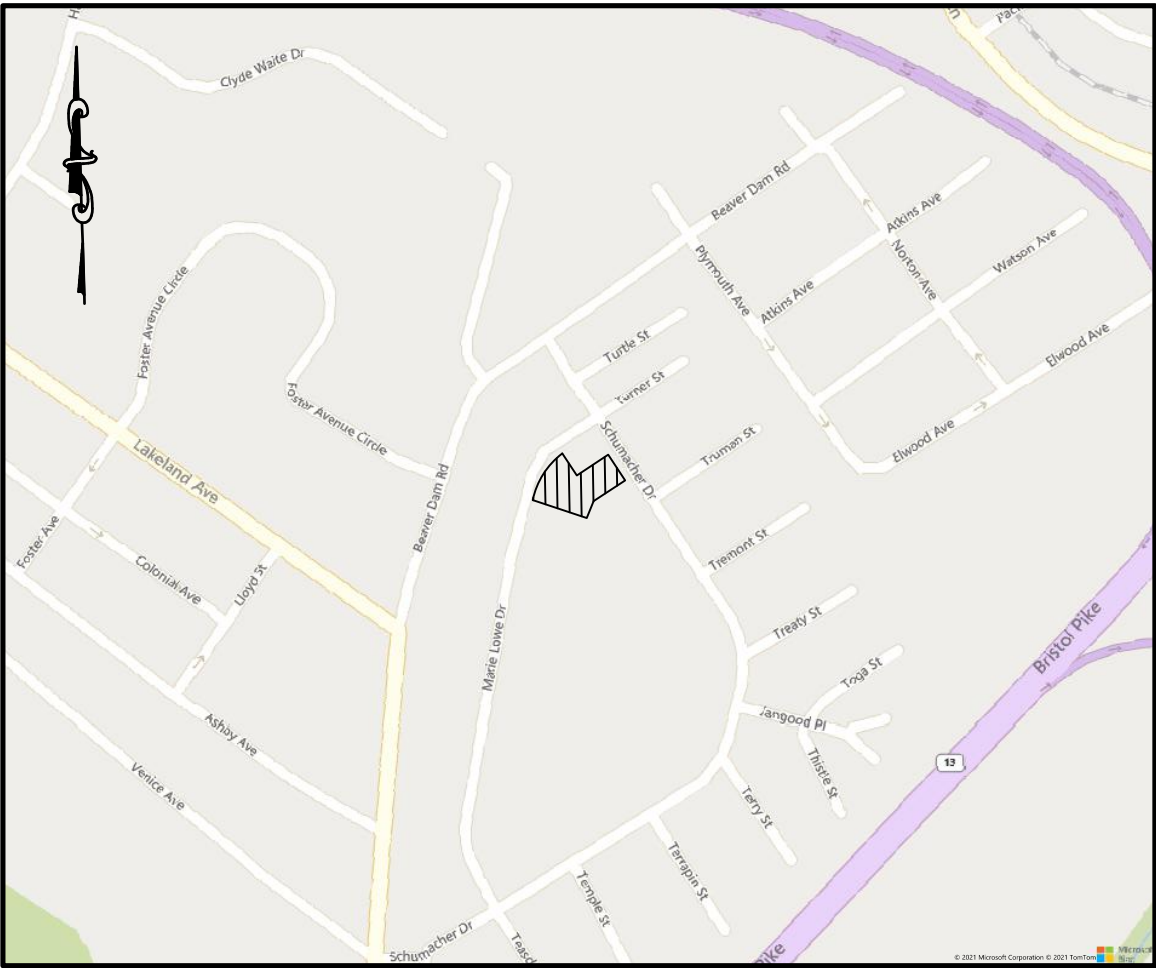
ALL CONTRACTORS WORKING ON THIS PROJECT SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES/FACILITIES PRIOR TO START OF WORK AND SHALL COMPLY WITH THE REQUIREMENTS OF P.L. 852, NO. 287, DECEMBER 10, 1974 AS LAST AMENDED ON APRIL 28, 2018 PENNSYLVANIA ACT 50. GILMORE & ASSOCIATES INC. HAS OBTAINED A PA-ONE CALL SERIAL NUMBER AS NOTED HEREON FOR DESIGN PURPOSES ONLY.

PENNSYLVANIA ONE CALL SYSTEM, INC.

925 Irwin Run Road
West Mifflin, Pennsylvania
15122 - 1078



BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA CALL 1-800-242-1776
NON-MEMBERS MUST BE CONTACTED DIRECTLY
PA LAW REQUIRES THREE WORKING DAYS NOTICE TO UTILITIES BEFORE YOU EXCAVATE, DRILL, BLAST OR DEMOLISH
SERIAL NO.



LOCATION MAP
SCALE: 1"=500'

GENERAL SURVEY NOTES:

- PROPERTY KNOWN AS TAX PARCEL 05-061-499 AS SHOWN ON THE TAX MAP OF THE TOWNSHIP OF BRISTOL, COUNTY OF BUCKS, COMMONWEALTH OF PENNSYLVANIA.
- CONTAINING 22,353.57 SQ FT AND/OR 0.51 ACRES; GROSS, MORE OR LESS.
- THIS SURVEY IS BASED ON A FIELD SURVEY PERFORMED BY GILMORE & ASSOCIATES, INC. IN AUGUST OF 2021 AND THE REFERENCED INFORMATION LISTED HEREON. IT WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT.
- SUBJECT TO COVENANTS, RESTRICTIONS AND/OR EASEMENTS EITHER WRITTEN OR IMPLIED.
- VERTICAL DATUM IS NAVD88 AND WAS ESTABLISHED BY GLOBAL POSITIONING SYSTEM (GPS) WITH OBSERVATIONS REFERENCED TO THE KEYNET-GPS VIRTUAL REFERENCE STATION SYSTEM.
- HORIZONTAL DATUM IS BASED ON THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (NAD 83) ESTABLISHED BY GLOBAL POSITIONING SYSTEM (GPS) WITH OBSERVATIONS REFERENCED TO THE KEYNET-GPS VIRTUAL REFERENCE STATION SYSTEM.

REFERENCES:

- TAX MAP FOR THE TOWNSHIP OF BRISTOL, COUNTY OF BUCKS, COMMONWEALTH OF PENNSYLVANIA.
- PLAN ENTITLED "DEVELOPMENT PLAN FOR KBS INC", PREPARED BY JOSEPH H. MIXNER, DATED OCTOBER 22, 1985 AND LAST REVISED JANUARY 22, 1987.

LEGEND

EXISTING CONDITION SYMBOLS

- EXISTING CONTOUR- MAJOR
- EXISTING UNDERGROUND WATER SERVICE
- EXISTING OVERHEAD ELECTRICAL LINE/SERVICE
- EXISTING UNDERGROUND ELECTRICAL LINE/SERVICE
- EXISTING UNDERGROUND DRAINAGE PIPING
- EXISTING WATER VALVE
- EXISTING EDGE OF WOODS
- EXISTING TREE

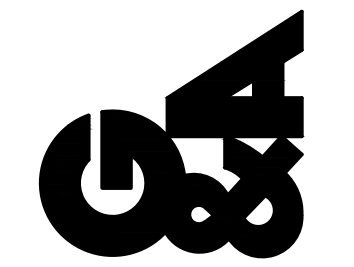
REMOVALS LEGEND

- LIMIT OF DISTURBANCE
- EXTENTS OF FENCE REMOVAL
- SAWCUT EXISTING ASPHALT
- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALY PAVEMENT

- NOTES:
- DEMOLISH ALL EXISTING FEATURES IN CONFLICT WITH THE PROPOSED WORK UNLESS OTHERWISE SPECIFIED FOR REUSE.
 - CONTRACTOR TO RESPONSIBLY HAUL AND DISPOSE OF ALL MATERIALS IN A LEGAL AND AUTHORIZED FASHION.

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

508 CORPORATE DRIVE WEST, LEBANON, PA 17042-1005 • 717-273-9955 • www.gilmore-associ.com
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JOB NO:	TAX MAP PARCEL NO:
21-07025	05-061-499/498
MUNICIPAL FILE NO:	
NOT APPLICABLE	
OWNER:	
BRISTOL TOWNSHIP 2501 BATH ROAD BRISTOL, PA 19007 215-785-0500	
TOTAL AREA:	TOTAL LOTS:
.51 AC	1
DATE:	SCALE:
5/5/2022	1"=20'
DESIGNED BY:	DRAWN BY:
LCK/MDS	LCK/MDS
CHECKED BY:	
RMS	

PUBLIC IMPROVEMENTS
EXISTING CONDITIONS & DEMOLITION PLAN
MARIE LOWE DRIVE COMMUNITY CENTER
BRISTOL TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

REV.	DESCRIPTION	DATE	BY

SHEET NO.:

3 OF 10

ISSUED FOR BID

1 MATERIALS & LAYOUT PLAN

ERNST NATIVE DETENTION AREA MIX - ERNMX-183

BOTANICAL NAME	COMMON NAME
32.00% Panicum clandestinum 'Tioga'	'Tioga' Deertongue
20.00 % Carex vulpinoidea, PA Ecotype	Fox Sedge, PA Ecotype
20.00 % Elymus virginicus, PA Ecotype	Virginia Wildrye, PA Ecotype
20.00 % Panicum virgatum, 'Shawnee'	'Shawnee' Switchgrass
4.00 % Agrostis perennans, Albany Pine Bush-NY Ecotype	Autumn Bentgrass Albany Pine Bush-NY Ecotype
2.00 % Juncus tenuis, PA Ecotype	Path Rush, PA Ecotype
1.00 % Juncus effusus	Soft Rush
1.00 % Panicum rigidulum, PA Ecotype	Redtop Panicgrass, PA Ecotype

100 %

SEEDING RATE: 20LB/ACRE

LOCATIONS OF EXISTING UNDERGROUND UTILITIES/FACILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM RECORDS, FIELD MARKOUTS BY UTILITY OWNERS, AND/OR ABOVE-GROUND OBSERVATION OF THE SITE. NO EXCAVATIONS WERE PERFORMED IN THE PREPARATION OF THESE DRAWINGS. THEREFORE ALL UTILITIES SHOWN SHOULD BE CONSIDERED APPROXIMATE IN LOCATION, DEPTH, AND SIZE. THE POTENTIAL EXISTS FOR OTHER UNDERGROUND UTILITIES/FACILITIES TO BE PRESENT WHICH ARE NOT SHOWN ON THE DRAWINGS. ONLY THE VISIBLE LOCATIONS OF UNDERGROUND UTILITIES/FACILITIES AT THE TIME OF FIELD SURVEY SHALL BE CONSIDERED TRUE AND ACCURATE. COMPLETENESS OR ACCURACY OF UNDERGROUND UTILITIES/FACILITIES ARE NOT GUARANTEED BY GILMORE & ASSOCIATES INC.

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PENNSYLVANIA ONE CALL SYSTEM, INC.



BEFORE YOU DIG ANYWHERE IN PENNSYLVANIA! CALL 1-800-242-1776
NON-MEMBERS MUST BE CONTACTED DIRECTLY
PA LAW REQUIRES THREE WORKING DAYS
NOTICE TO UTILITIES BEFORE YOU EXCAVATE,
DRILL, BLAST OR DEMOLISH
SERIAL NO. #####

SEED MIX ESTABLISHMENT SPECIFICATIONS

INSTALLATION:
SPRAY AREAS TO BE SEEDED WITH A SYSTEMIC HERBICIDE ONE (1) MONTH PRIOR TO THE INSTALLATION OF THE SPECIFIED SEED MIXTURE. AFTER TWO (2) WEEKS OF HERBICIDE APPLICATION, AREAS TO BE SEEDED SHALL BE TREATED AGAIN IF PERSISTANT WEEDS RE-GERMIMATE. ONLY AFTER ALL EXISTING VEGETATION TO BE REMOVED IS ERRADICATED SHALL THE FOLLOWING SEED INSTALLATION STEPS TAKE PLACE:

1. ALL AREAS TO BE SEEDED SHALL BE CLEARED OF ALL REMAINING DEBRIS AND VEGETATION.
2. TILL ALL AREAS TO BE SEEDED TO A MINIMUM DEPTH OF FOUR (4) INCHES, AND ADD ANY SPECIFIED SOIL AMENDMENTS TO THE TILLED AREAS.
3. SPREAD SEED AT RECOMMENDED RATE EVENLY ACROSS THE ENTIRE SITE.
4. FINE RAKE ALL AREAS PREVIOUSLY SEEDED TO ENSURE GOOD SOIL TO SEED CONTACT.
5. LAY DOWN JUTE MAT TO REDUCE EROSION.
6. WATER ENTIRE AREA THOROUGHLY, AVOID OVER WATERING.

FIRST YEAR MAINTENANCE:

SEED MIXTURE SHALL BE INSPECTED FOR INVASIVE WEED SPECIES. IF WEED SPECIES APPEAR IN THE SEEDED AREA SPOT TREAT BY PULLING. ALLOW SEED MIXTURE TO REACH A HEIGHT OF 12-18 INCHES IN HEIGHT, MOW TO A HEIGHT OF APPROXIMATELY SIX (6) INCHES WITH A WEED EATER.

SECOND YEAR MAINTENANCE:

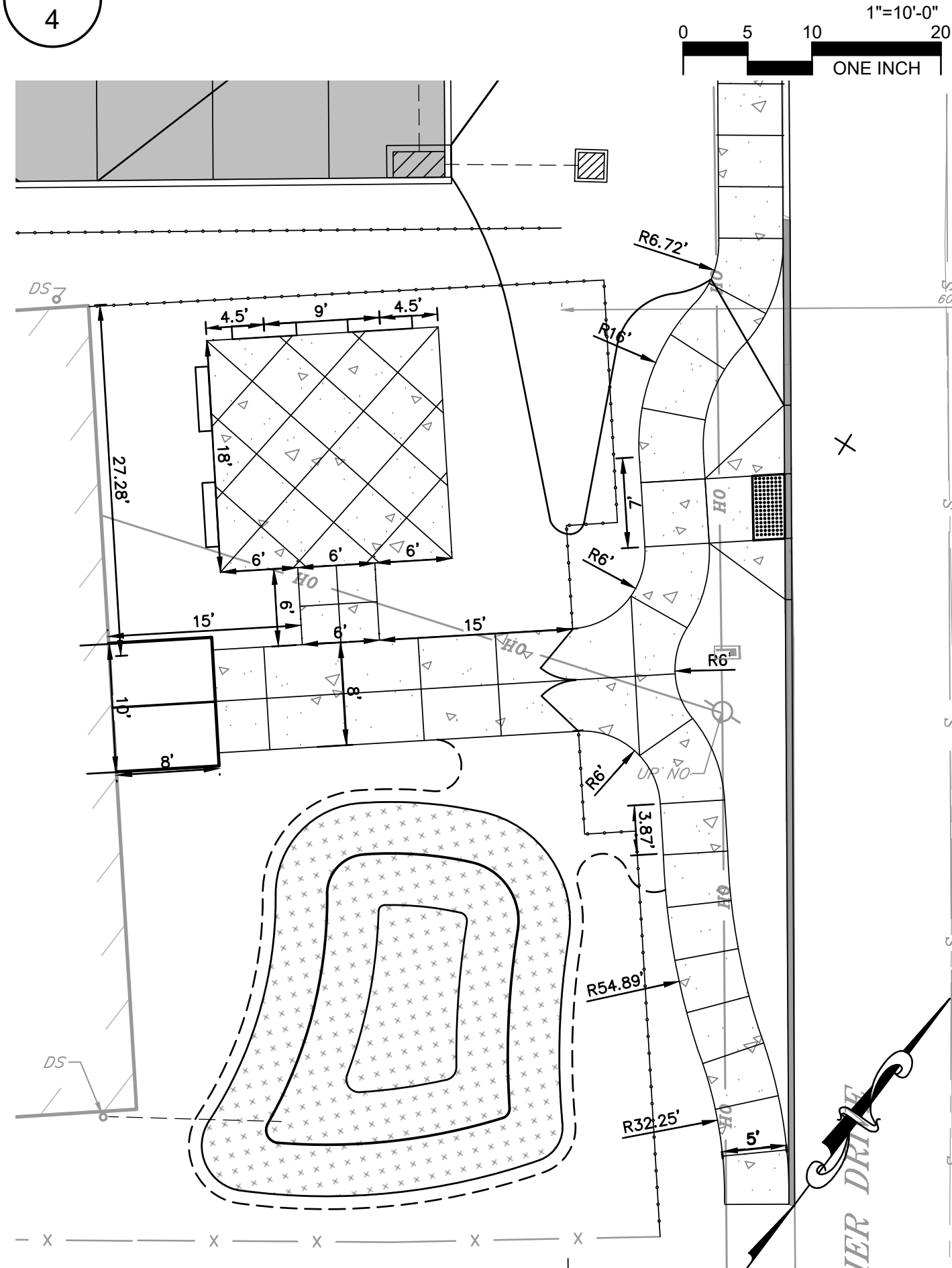
MOW ONCE IN SPRING AS CLOSE TO GROUND AS POSSIBLE. ALLOW PLANTS TO GROW TO FULL HEIGHT.

CONSECUTIVE FOLLOWING YEARS:

MOW EVERY OTHER YEAR AND SPOT TREAT INVASIVE PLANT SPECIES.



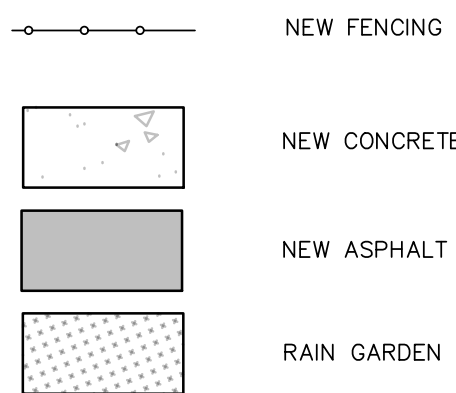
2 MATERIALS AND LAYOUT ENLARGEMENT



3 MATERIALS AND LAYOUT ENLARGEMENT



LEGEND : MATERIALS



PLANTING PALETTE

Perennial/ Grasses					
Key	Qty.	Botanical Name	Common Name	Size	Root
Arb	5	Acer Rubrum 'Bowhall'	Bowhall Red Maple	2.5" Cal	B&B
					SEE PLAN

PERMANENT TURF SEED MIX

SEED TYPE	POPORTION BY WIEGHT	MINIMUM PURITY	MINIMUM GERMINATION
TURF-TYPE TALL FESCUE	60%	95%	80%
PERENNIAL RYE GRASS	30%	95%	85%
KENTUCKY BLUE GRASS	10%	90%	80%

PUBLIC IMPROVEMENTS
SITE PLAN
MARIE LOWE DRIVE COMMUNITY
CENTER

BRISTOL TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

REV.	DESCRIPTION	DATE	BY

SHEET NO.:

4 OF 10

JOB NO.: 21-07025

MUNICIPAL FILE NO.: 05-061-499/498

OWNER: BRISTOL TOWNSHIP
2501 BATH ROAD
BRISTOL, PA 19007
215-785-0500

TOTAL AREA: .51 AC
TOTAL LOTS: 1
DATE: 5/5/2022
SCALE: 1"=20'

REV.	DESCRIPTION	DATE	BY

SHEET NO.:

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T:\municipal\Bristol_Township\2021\2107025-BT_1248 Marie Lowe Drive Community Center - Public Improvements\02 DRAWING FILES\CAD\Production Drawings\2107025 GRADING_DRAINAGE & EROSION CONTROL.dwg Layout: GRADING-CONTROL Plotted By: dkennedy, on Mon Jul 10, 2023 at 1:15pm

1 OVERALL GRADING PLAN
5

LOCATIONS OF EXISTING UNDERGROUND UTILITIES/FACILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM RECORDS, FIELD MARKOUTS BY UTILITY OWNERS, AND/OR ABOVE-GROUND OBSERVATION OF THE SITE. NO EXCAVATIONS WERE PERFORMED IN THE PREPARATION OF THESE DRAWINGS. THEREFORE ALL UTILITIES SHOWN SHOULD BE CONSIDERED APPROXIMATE IN LOCATION, DEPTH, AND SIZE. THE POTENTIAL EXISTS FOR OTHER UNDERGROUND UTILITIES/FACILITIES TO BE PRESENT WHICH ARE NOT SHOWN ON THE DRAWINGS. ONLY THE VISIBLE LOCATIONS OF UNDERGROUND UTILITIES/FACILITIES AT THE TIME OF FIELD SURVEY SHALL BE CONSIDERED TRUE AND ACCURATE. COMPLETENESS OR ACCURACY OF UNDERGROUND UTILITIES/FACILITIES ARE NOT GUARANTEED BY GILMORE & ASSOCIATES INC.

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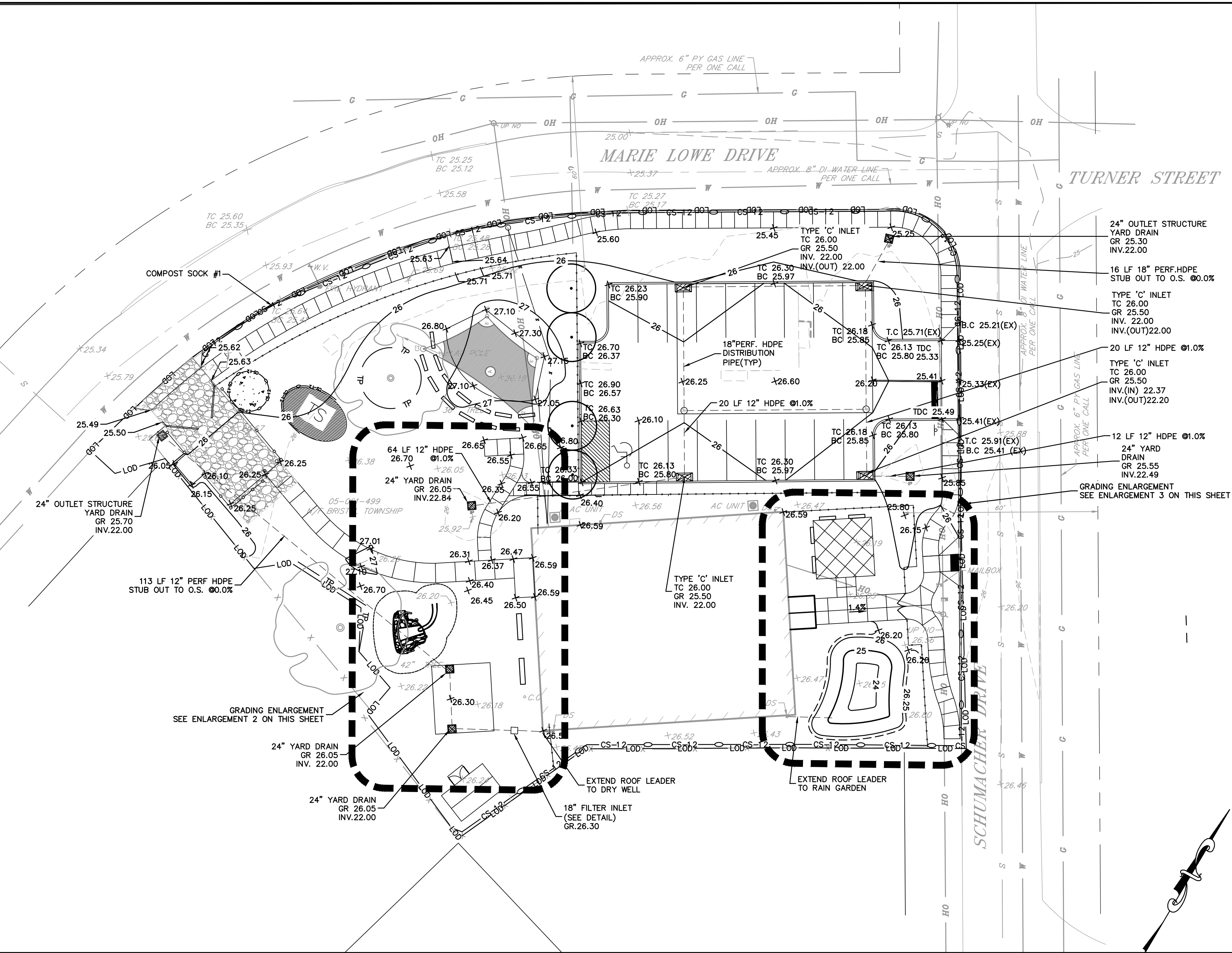
PENNSYLVANIA ONE CALL SYSTEM, INC.

925 Irwin Run Road
West Mifflin, Pennsylvania
15122 - 1078



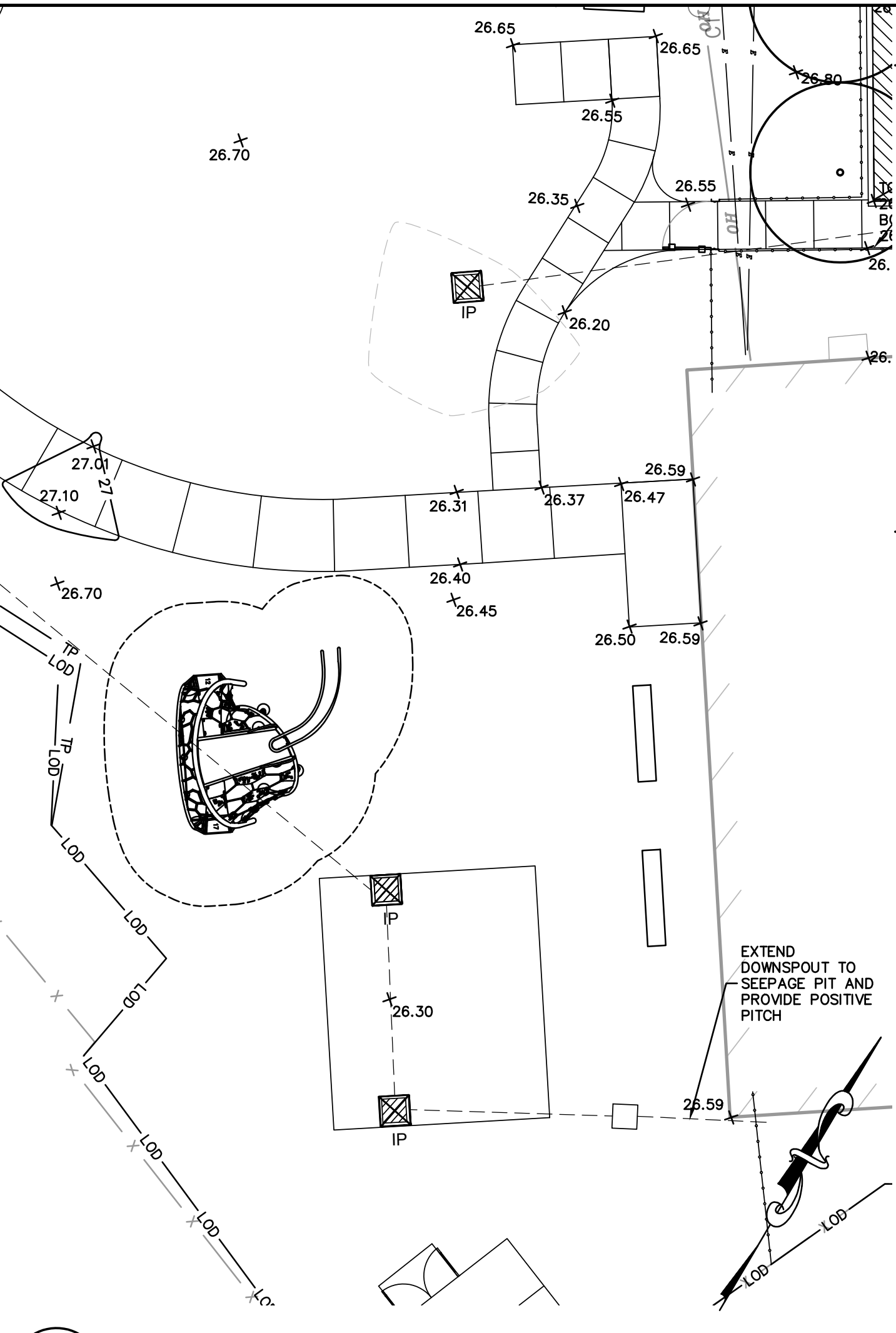
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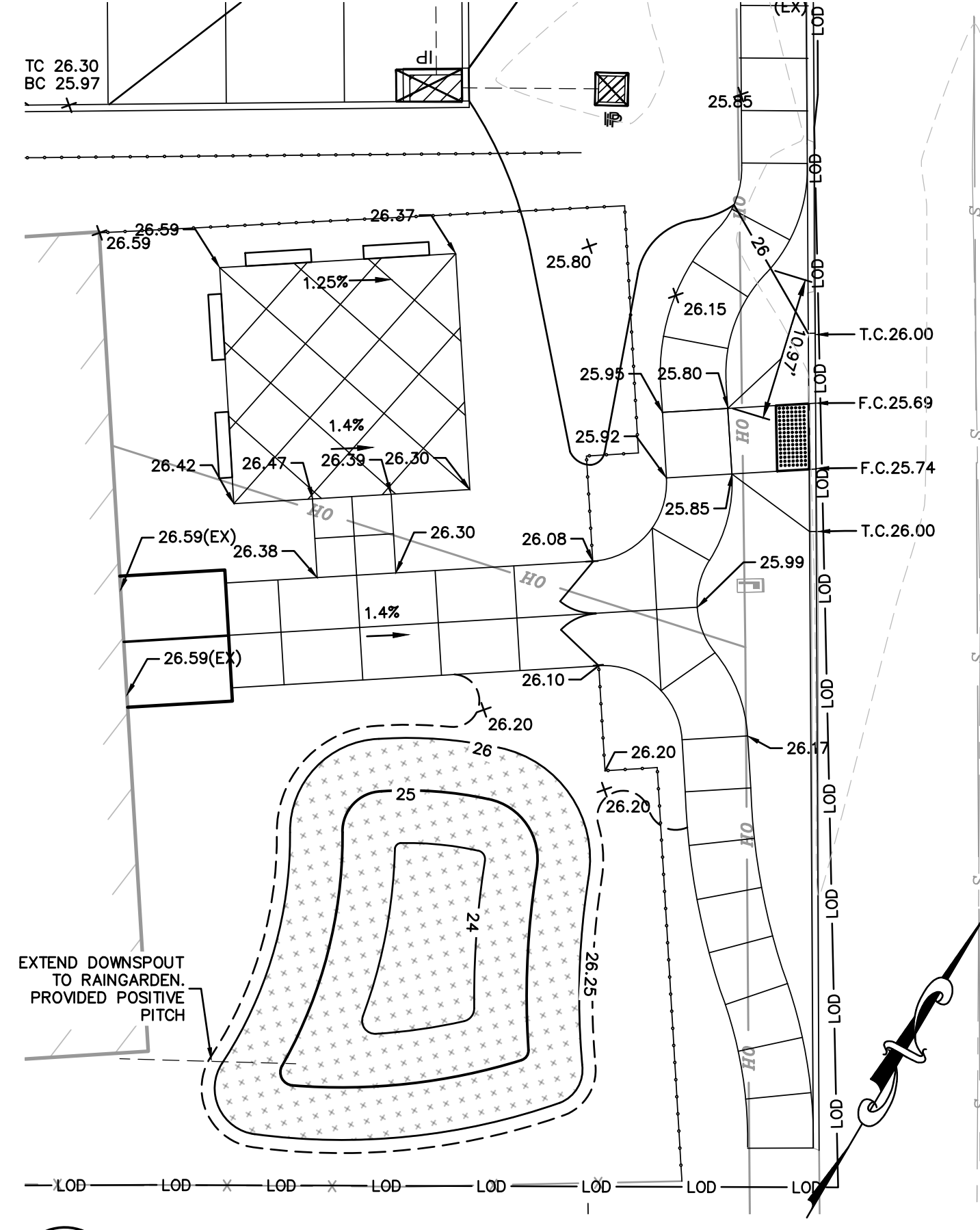
1"=20'-0"
0 10 20 40
ONE INCH

2 GRADING ENLARGEMENT
5



0 5 10 1"=10'-0"
ONE INCH

3 GRADING ENLARGEMENT
5



0 5 10 1"=10'-0"
ONE INCH

LEGEND : MATERIALS

- EXISTING 1FT CONTOUR
- PROPOSED 1FT CONTOUR
- LOD PROPOSED 1FT CONTOUR
- 26.53 SPOT ELEVATION
- 4" HDPE UNDERDRAIN
- DIRECTIONAL FLOW ARROW

LEGEND : E&S

- TS TOPSOIL STOCKPILE
- CONCRETE WASHOUT STATION
- CS-12- 12" COMPOST SOCK
- ROCK CONSTRUCTION ENTRANCE
- INLET PROTECTION

GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

508 CORPORATE DRIVE WEST LEBANON, OHIO 45034-1205 • 614.533.9955 • www.gilmoreassoc.com

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JOB NO.: 21-07025
TAX MAP PARCEL NO.: 05-061-499/498

MUNICIPAL FILE NO.: NOT APPLICABLE

OWNER: BRISTOL TOWNSHIP
2501 BATH ROAD
BRISTOL, PA 19007
215-785-0500

PUBLIC IMPROVEMENTS
GRADING-DRAINAGE & EROSION CONTROL

MARIE LOWE DRIVE COMMUNITY CENTER
BRISTOL TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

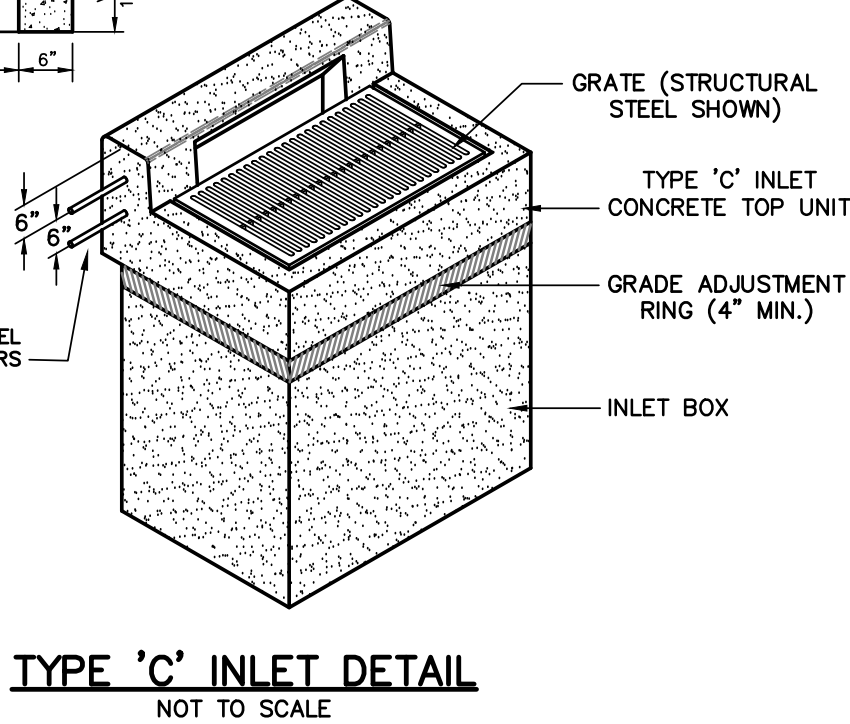
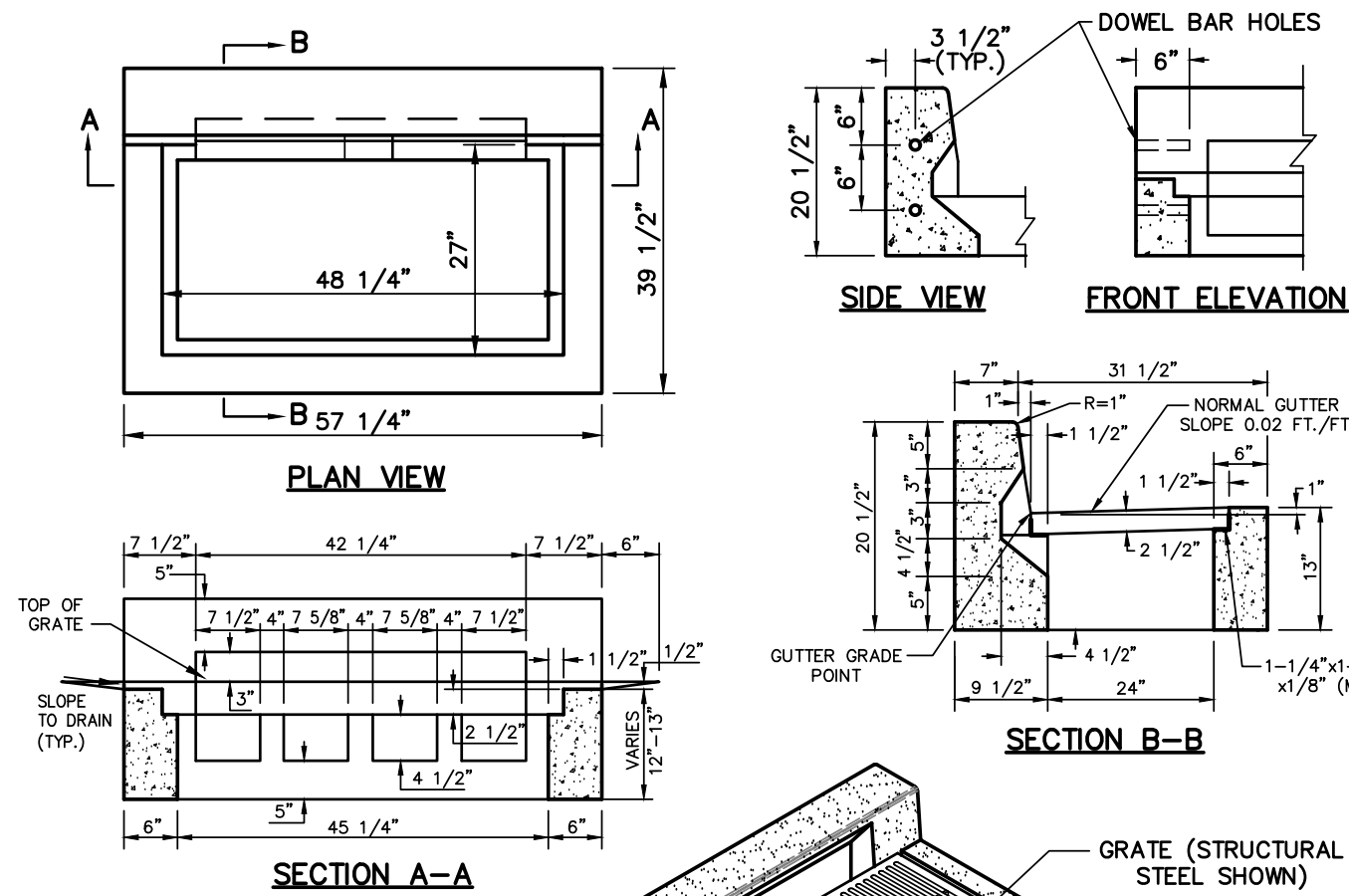
REV.	DESCRIPTION	DATE	BY

SHEET NO.:

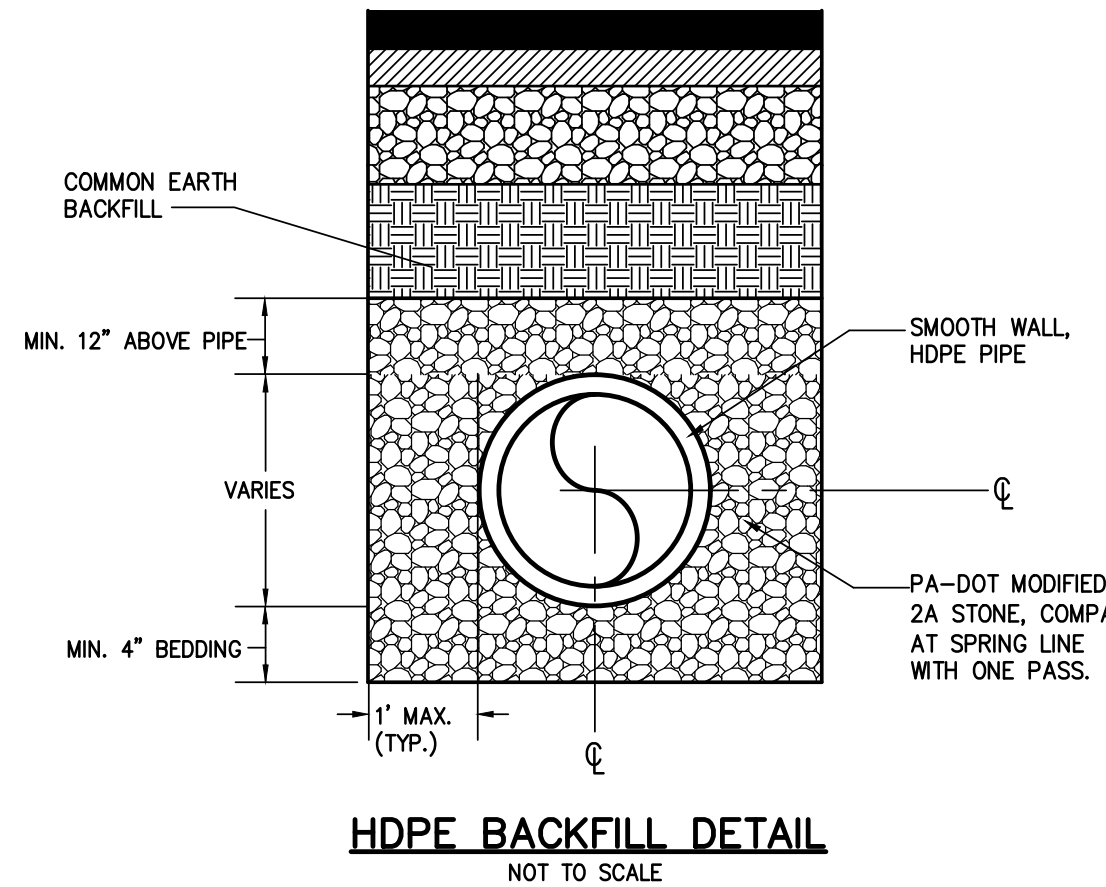
5 OF 10

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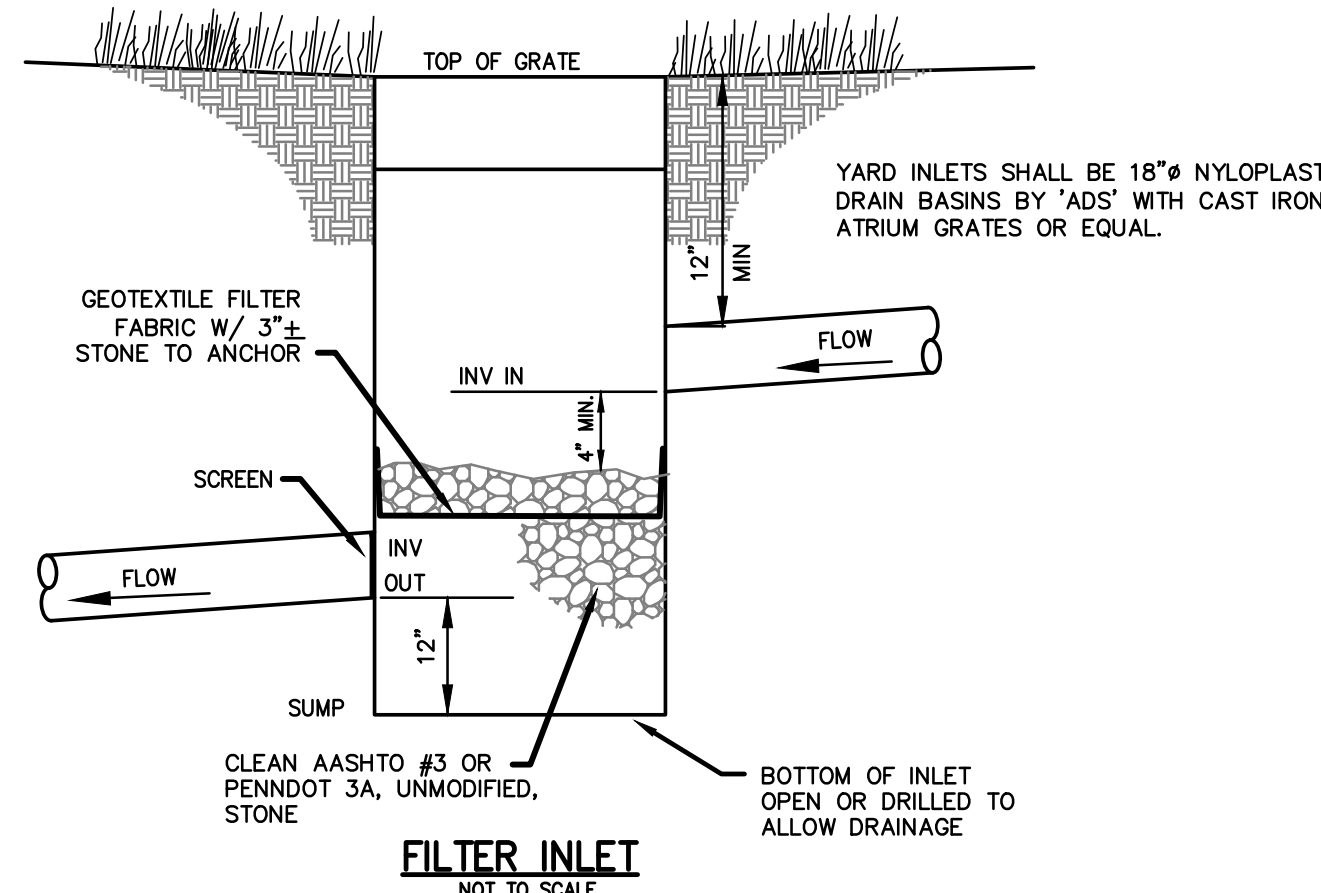
T:\municipal\Bristol Township\2021\2107025-BT-1248 Marie Lowe Drive Community Center - Public Improvements\02 DRAWING FILES\CAD\Production Drawings\2107025 GRADING_DRAINAGE & EROSION CONTROL.dwg Layout: GRADING AND DRAINAGE DETAILS Plotted By: dlenney, on Mon Jul 10, 2023 at 1:15pm



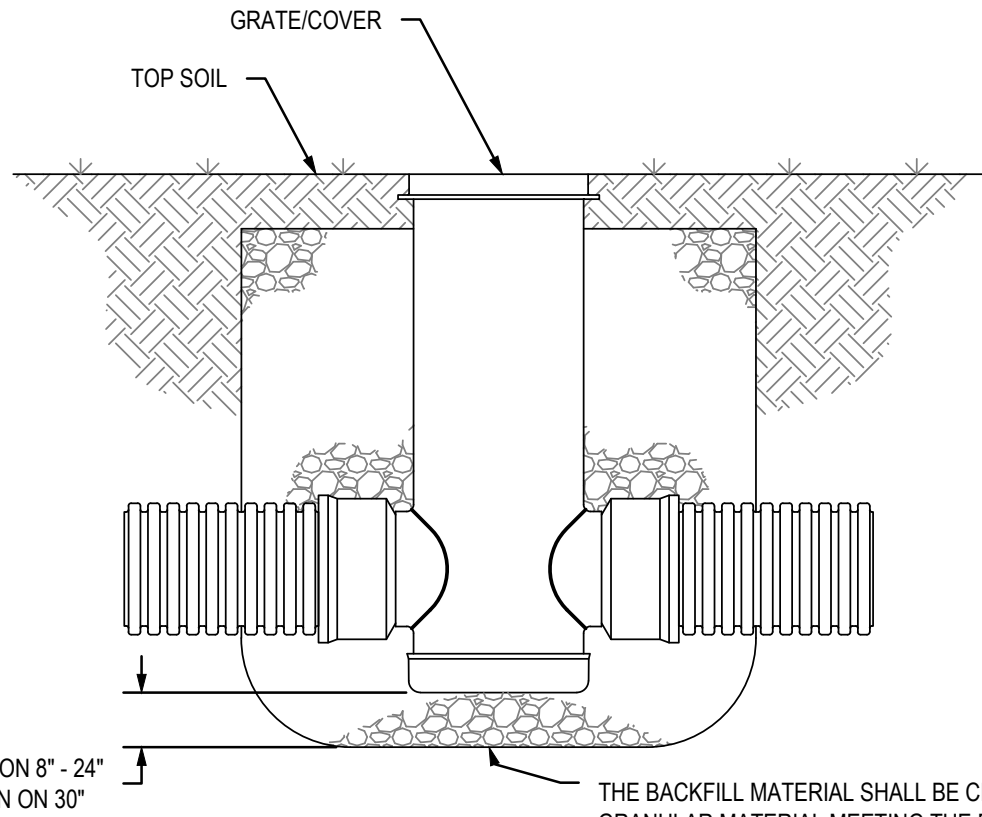
TYPE 'C' INLET DETAIL
NOT TO SCALE



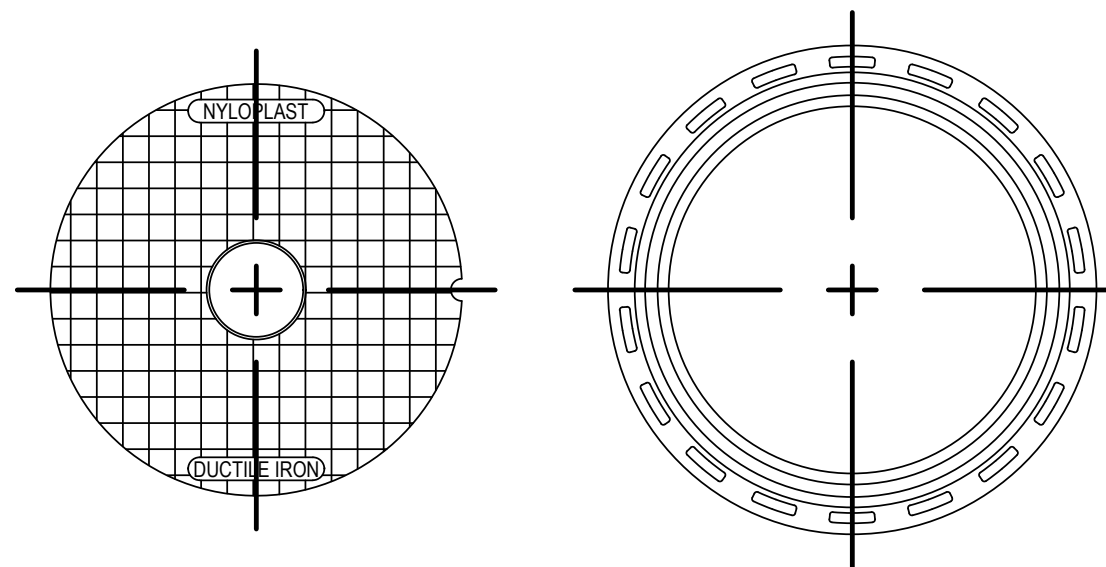
HDPE BACKFILL DETAIL
NOT TO SCALE



FILTER INLET
NOT TO SCALE



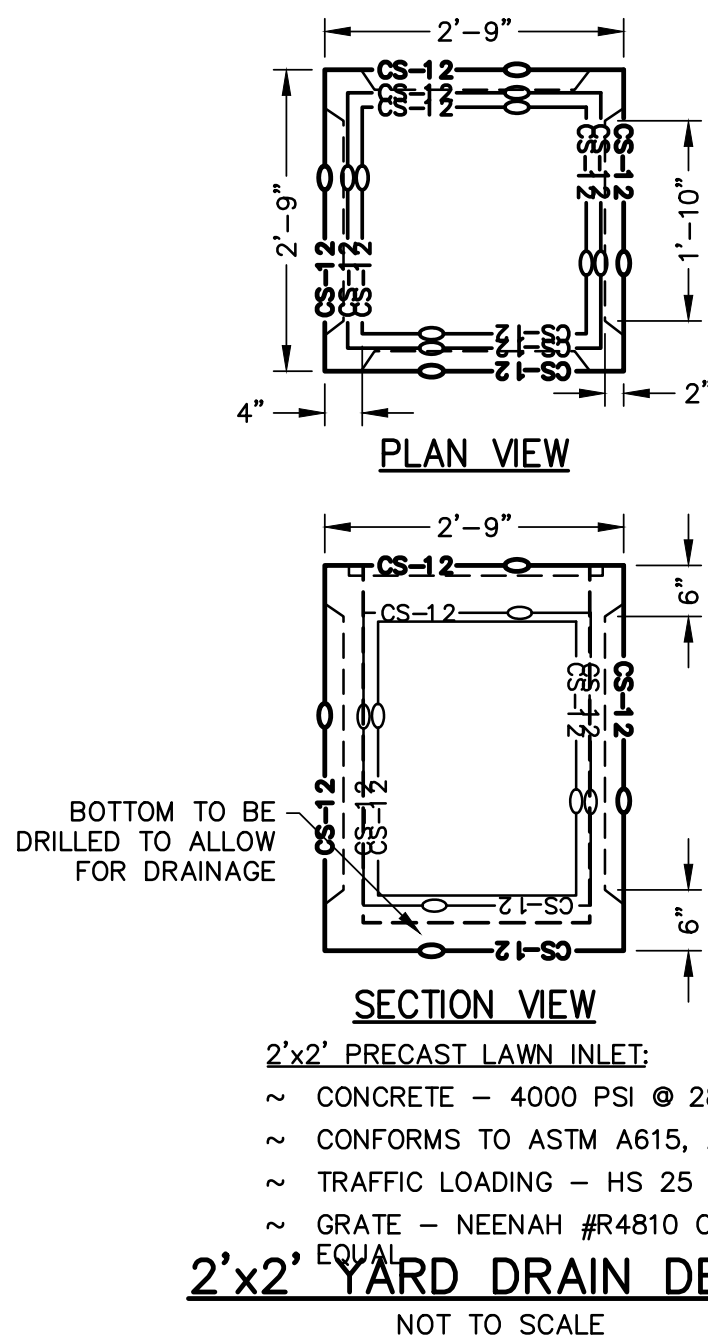
DRAIN BASIN



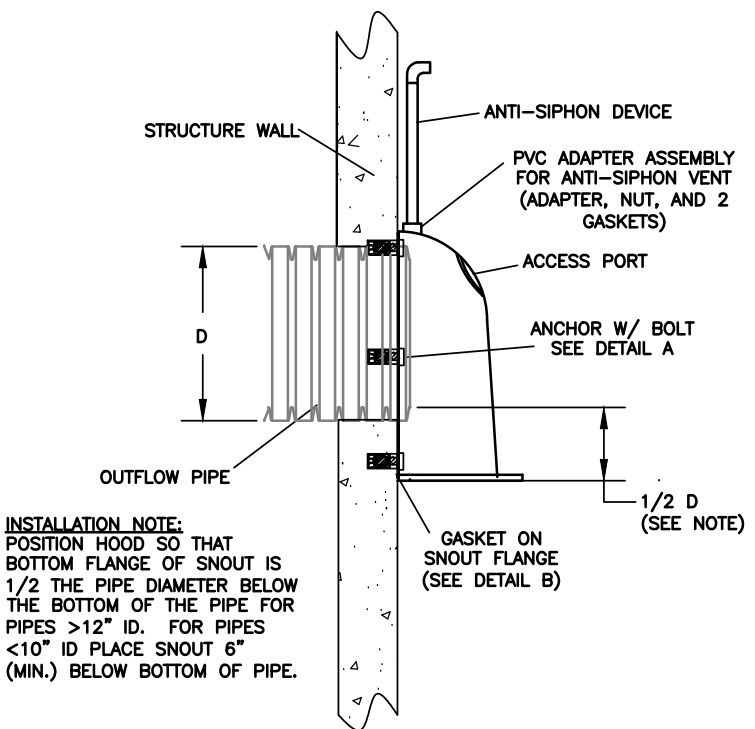
SOLID COVER SIZES		
MANHOLE NAME	LID Ø (IN)	FRAME Ø (IN)
18" ADS MH	18.64	22.13
30" ADS MH	31.87	36.00
24" ADS MH	24.75	28.50

SOLID COVER ASSEMBLY

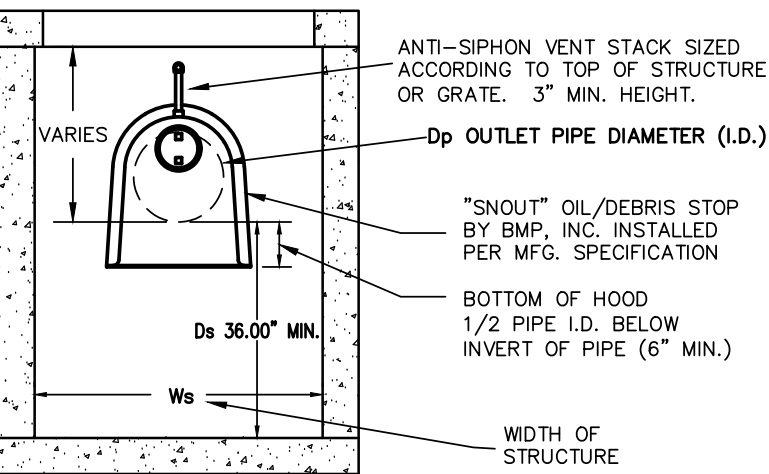
NOTE: ALL YARD DRAIN GRATES AND SOLID COVERS MUST BE RATED FOR HEAVY DUTY (H20) LOADING.



2'x2' PRECAST LAWN INLET:
~ CONCRETE - 4000 PSI @ 28 DAY
~ CONFORMS TO ASTM A615, A185
~ TRAFFIC LOADING - HS 25
~ GRATE - NEENAH #R4810 OR
2'x2' YARD DRAIN DETAIL
NOT TO SCALE



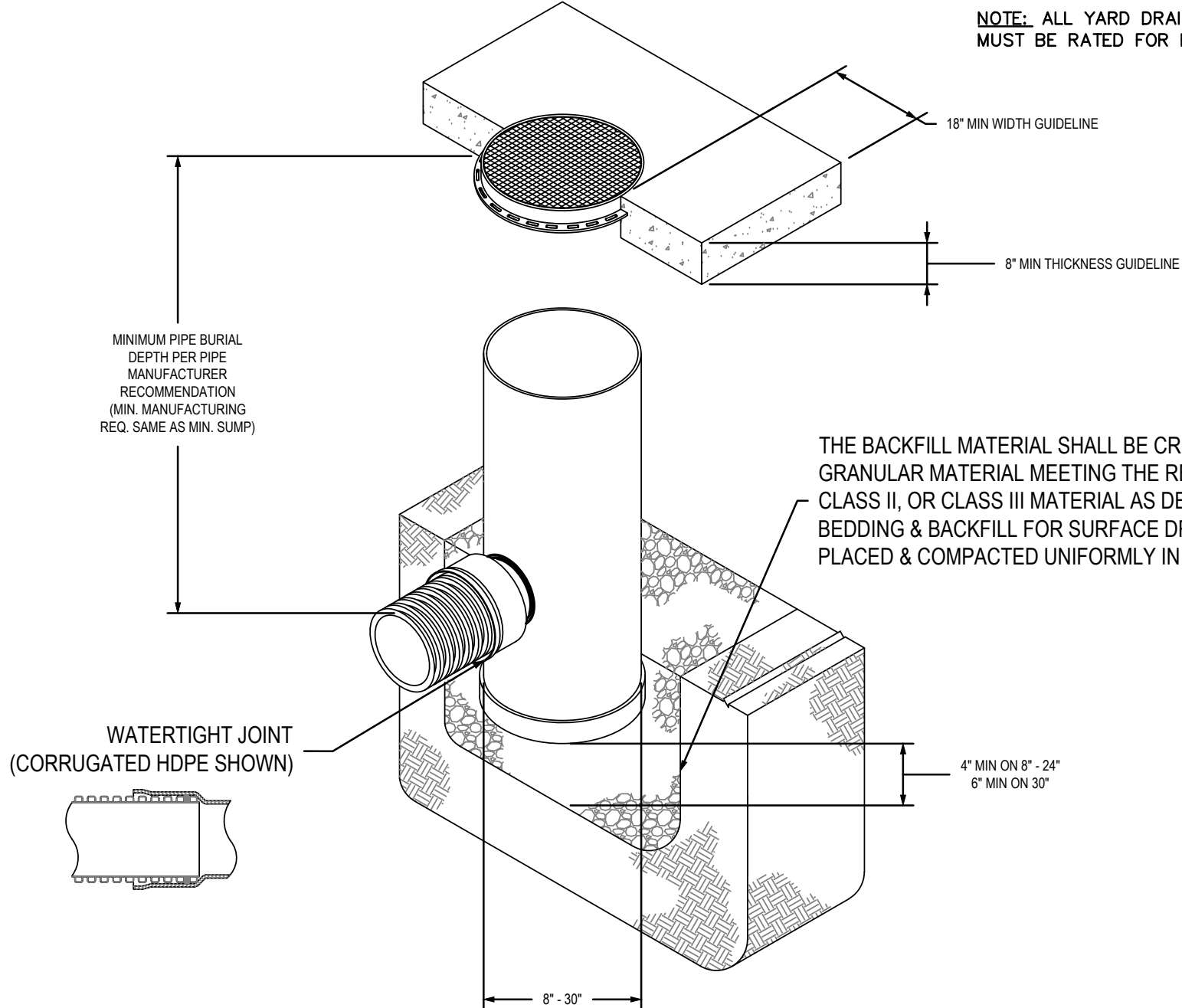
DESIGN PARAMETER GUIDELINES FOR WATER QUALITY IMPROVEMENT



- SELECT THE SNOOT OIL & DEBRIS STOP OF SIZE AND CONFIGURATION TO FIT APPLICATION.
- CENTER THE SNOOT DIRECTLY OVER THE EXIT PIPE SO THAT THE ENTIRE PIPE IS COVERED AND SO THAT THE LOWER EDGE OF THE HOOD IS AT LEAST 1/2 THE PIPE DIAMETER BELOW THE LOWEST INSIDE POINT OF THE PIPE.
- DRILL EQUALLY SPACED 7/16" HOLES THROUGH THE SNOOT FLANGE. (NUMBER OF HOLES MAY VARY WITH SIZE OF SNOOT.)
- MARK AND DRILL CATCH BASIN AND INSTALL THE TAMP-IN LEAD ANCHORS.
 - DRILL A 3/4" HOLE INTO THE BASE MATERIAL TO THE REQUIRED DEPTH.
 - BLOW THE HOLE CLEAN OF DUST AND OTHER MATERIAL.
 - INSERT THE ANCHOR INTO THE HOLE (LEAD SHIELD OUT).
 - POSITION THE SETTING TOOL IN THE ANCHOR. THE OUTER RIM OF THE TOOL SHOULD SEAT ONTO THE LEAD SHIELD RIM.
 - USING THE TOOL, SET THE ANCHOR BY DRIVING THE LEAD SLEEVE OVER THE CONE USING SEVERAL SHARP HAMMER BLOWS. BE SURE THE ANCHOR IS AT THE REQUIRED EMBEDMENT DEPTH.
- ATTACH THE VENT PIPE ADAPTER IN THE PREDRILLED HOLE IN THE TOP OF THE SNOOT USING THE 2 FLAT O-RING GASKETS AND PVC LOCK-NUT SUPPLIED W/ KIT. INSTALL WITH THE FEMALE SLIP ADAPTER UP AND A WASHER ON EACH SIDE OF THE SNOOT SHELL. TIGHTEN LOCK-NUT HAND TIGHT.
- REMOVE PSA BACKING AND WITH FIRM PRESSURE, ATTACH GASKET STRIP TO BACK OF FLANGE AND TRIM EXCESS.
- ATTACH THE SNOOT TO THE CATCH BASIN WALL WITH 3/8" DIAMETER STAINLESS STEEL BOLTS DO NOT OVERTIGHTEN: 10 TO 15 FOOT POUNDS SHOULD BE SUFFICIENT.
- CUT THE ANTI-SIPHON VENT STACK TO LENGTH AND ATTACH TO HOOD WITH PVC CEMENT.
- ATTACH 90 DEGREE FITTING TO VENT STACK WITH PVC CEMENT. INSURE THAT FITTING OPENING IS ACCESSIBLE FOR MAINTENANCE AND INSPECTION.

WATER QUALITY SNOOT INLET INSERT DETAIL
NOT TO SCALE

NOTE: TO BE APPLIED IN ALL TYPE 'C' AND TYPE 'M' INLETS LOCATED IN PAVED PARKING AND DRIVEWAY AREAS.



NYLOPLAST DRAIN BASIN WITH SOLID COVER

GENERAL:

PVC SURFACE DRAINAGE INLETS SHALL INCLUDE THE DRAIN BASIN TYPE AS INDICATED ON THE CONTACT DRAWING AND REFERENCED WITHIN THE CONTRACT SPECIFICATIONS. THE DUCTILE IRON GRATES FOR EACH OF THESE FITTING ARE TO BE CONSIDERED AN INTEGRAL PART OF THE SURFACE DRAINAGE INLET AND SHALL BE FURNISHED BY THE SAME MANUFACTURER. THE SURFACE DRAINAGE INLETS SHALL BE AS MANUFACTURED BY NYLOPLAST A DIVISION OF ADVANCED DRAINAGE SYSTEMS, INC., OR PRIOR APPROVAL EQUAL.

MATERIALS:

THE DRAIN BASINS REQUIRED FOR THIS CONTRACT SHALL BE MANUFACTURED FROM PVC PIPE STOCK, UTILIZING A THERMOFORMING PROCESS TO REFORM THE PIPE STOCK TO THE SPECIFIED CONFIGURATION. THE DRAINAGE PIPE CONNECTION STUBS SHALL BE MANUFACTURED FROM PVC PIPE STOCK AND FORMED TO PROVIDE A WATER TIGHT CONNECTION WITH THE SPECIFIED PIPE SYSTEM. THIS JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR JOINTS FOR DRAIN AND SEWER PLASTIC PIPE USING FLEXIBLE ELASTOMERIC SEALS. THE FLEXIBLE ELASTOMERIC SEALS SHALL CONFORM TO ASTM F477. THE PIPE BELL SPIGOT SHALL BE JOINED TO THE MAIN BODY OF THE DRAIN BASIN OR CATCH BASIN. THE RAW MATERIAL USED TO MANUFACTURE THE PIPE STOCK THAT IS USED TO MANUFACTURE THE MAIN BODY AND PIPE STUBS OF THE SURFACE DRAINAGE INLETS SHALL CONFORM TO ASTM D1784 CELL CLASS 12454.

THE GRATES AND FRAMES FURNISHED FOR ALL SURFACE DRAINAGE INLETS SHALL BE DUCTILE IRON FOR SIZES 8", 10", 12", 15", 18", 24", AND 30" AND SHALL BE MADE SPECIFICALLY FOR EACH BASIN SO AS TO PROVIDE A ROUND BOTTOM FLANGE THAT CLOSELY MATCHES THE DIAMETER OF THE SURFACE DRAINAGE INLET. GRATES FOR DRAIN BASINS SHALL BE CAPABLE OF SUPPORTING VARIOUS WHEEL LOADS AS SPECIFIED BY NYLOPLAST. 12" AND 15" SQUARE GRATES WILL BE HINGED TO THE FRAME USING PINS. DUCTILE IRON USED IN THE MANUFACTURE OF THE CASTINGS SHALL CONFORM TO ASTM A536 GRADE 70-50-05. GRATES AND COVERS SHALL BE PROVIDED PAINTED BLACK.

INSTALLATION:

THE SPECIFIED PVC SURFACE DRAINAGE INLET SHALL BE INSTALLED DURING CONVENTIONAL FLEXIBLE PIPE BACKFILL MATERIALS AND PROCEDURES. THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING AND BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE WELL PLACED AND COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321. THE DRAIN BASIN BODY WILL BE CUT AT THE TIME OF THE FINAL GRADE. NO BRICK, STONE OR CONCRETE BLOCK WILL BE REQUIRED TO SET THE GRATE TO THE FINAL GRADE HEIGHT. FOR LOAD RATED INSTALLATIONS, A CONCRETE SLAB SHALL BE POURED UNDER AND AROUND THE GRATE AND FRAME. THE CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, AND OTHER APPLICABLE DESIGN FACTORS. FOR OTHER INSTALLATION CONSIDERATIONS SUCH AS MIGRATION OF FINES, GROUND WATER, AND SOFT FOUNDATIONS REFER TO ASTM D2321 GUIDELINES.

JOB NO.: 21-07025
MUNICIPAL FILE NO.: NOT APPLICABLE
OWNER: BRISTOL TOWNSHIP
2501 BATH ROAD
BRISTOL, PA 19007
215-785-0500

PUBLIC IMPROVEMENTS
GRADING AND DRAINAGE DETAILS
MARIE LOWE DRIVE COMMUNITY CENTER
BRISTOL TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA

REV.	DESCRIPTION	DATE	BY

SHEET NO.:

6 OF 10

TAX MAP PARCEL NO.: 05-061-499/498

TOTAL LOTS: 1
TOTAL AC: .51
DATE: 5/5/2022
SCALE: 1"=20'

DESIGNED BY: LCR/MDS
DRAWN BY: LCR/MDS
CHECKED BY: KMS

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DRAWN BY: LCR/MDS
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SHEET NO.:

6 OF 10

TAX MAP PARCEL NO.: 05-061-499/498

TOTAL LOTS: 1
TOTAL AC: .51
DATE: 5/5/2022
SCALE: 1"=20'

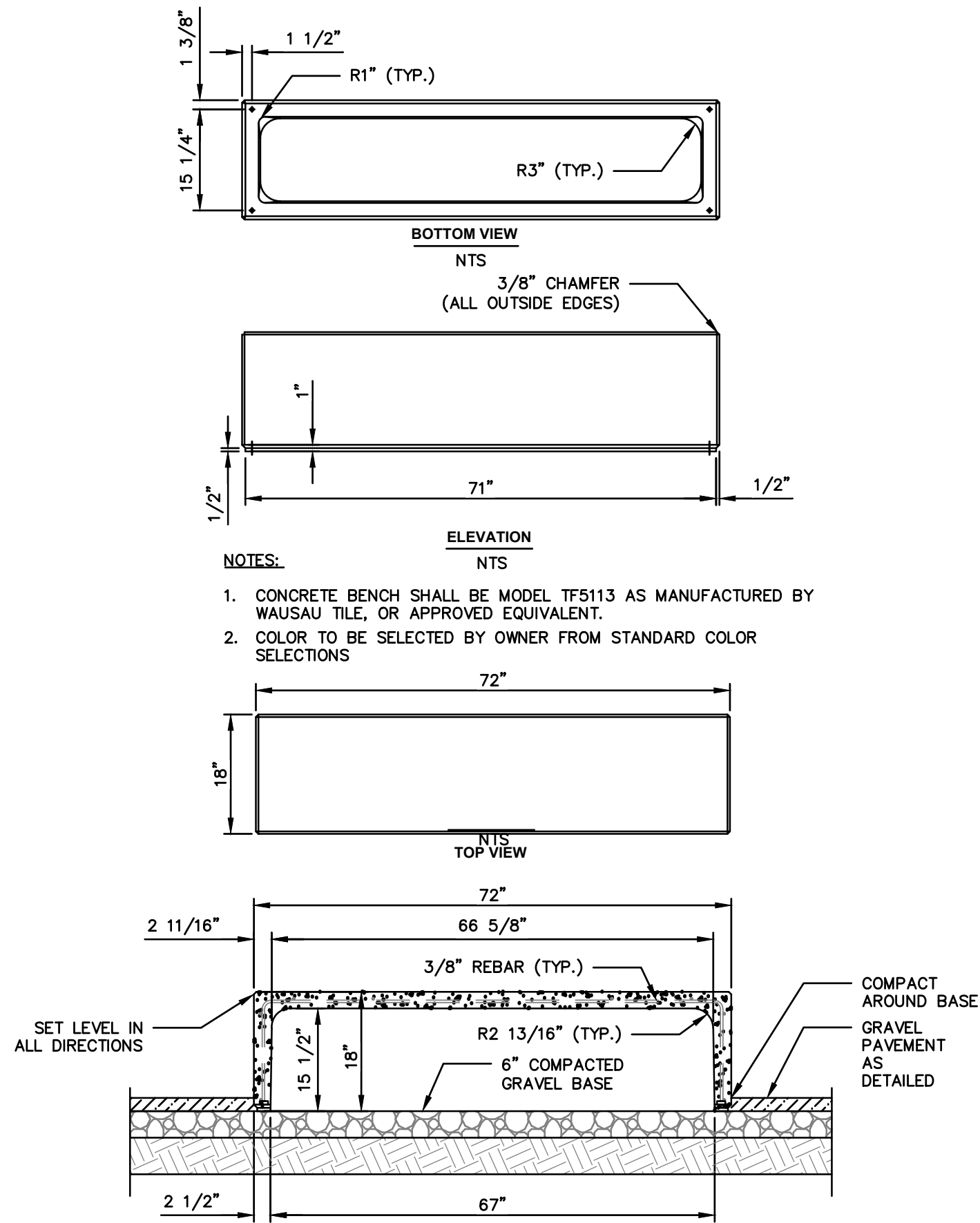
DESIGNED BY: LCR/MDS
DRAWN BY: LCR/MDS
CHECKED BY: KMS

DESIGNED BY: LCR/MDS
DRAWN BY: LCR/MDS
CHECKED BY: KMS

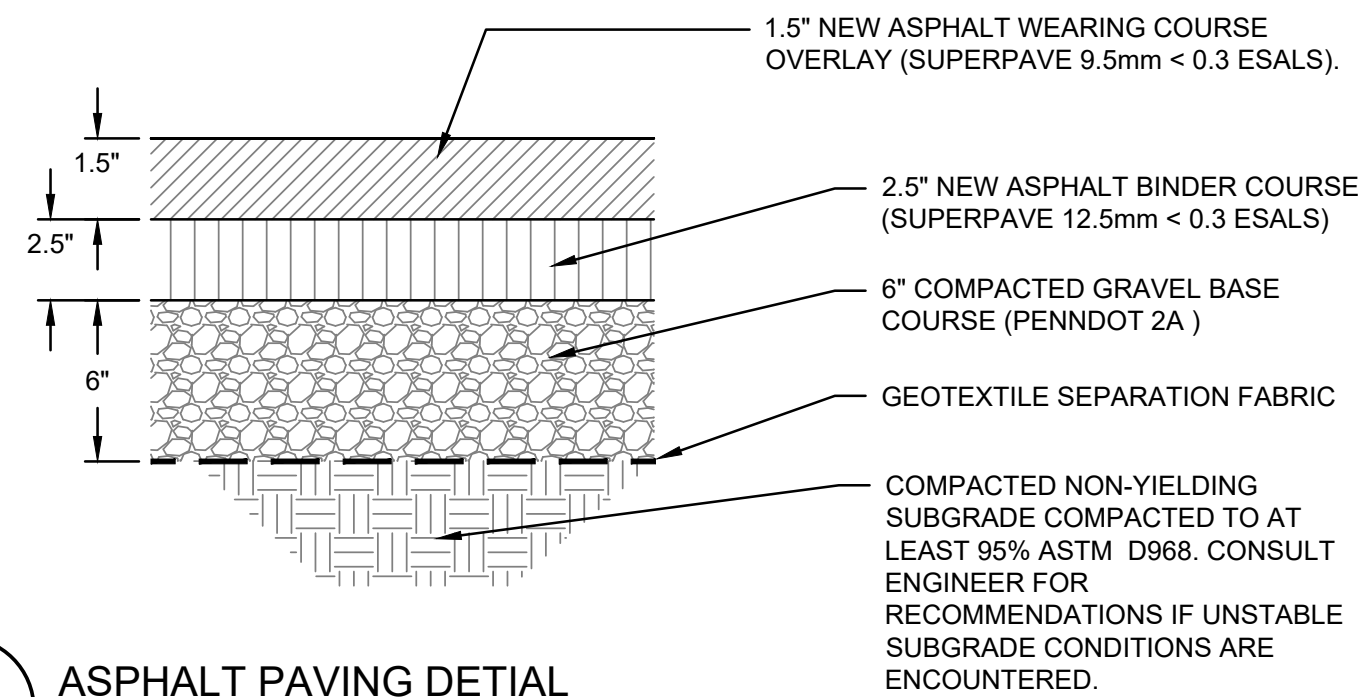
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6 OF 10

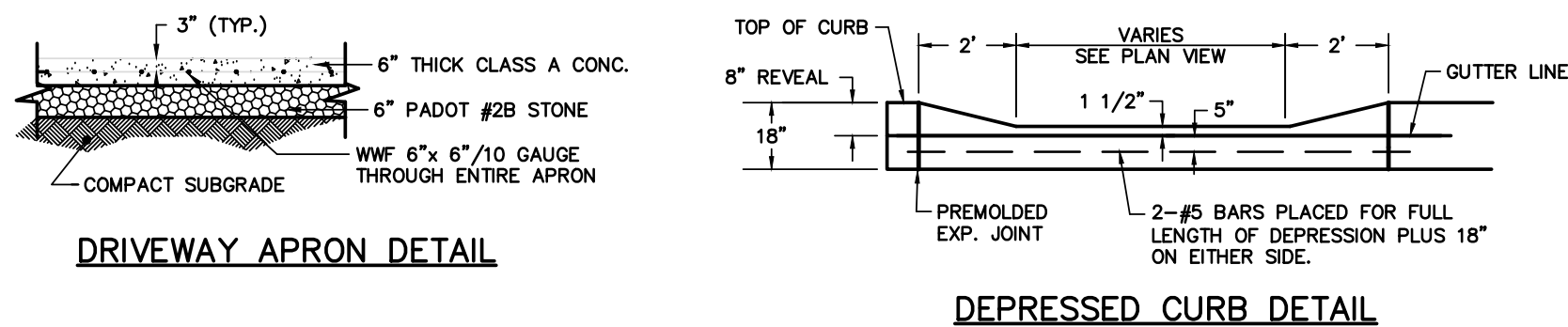
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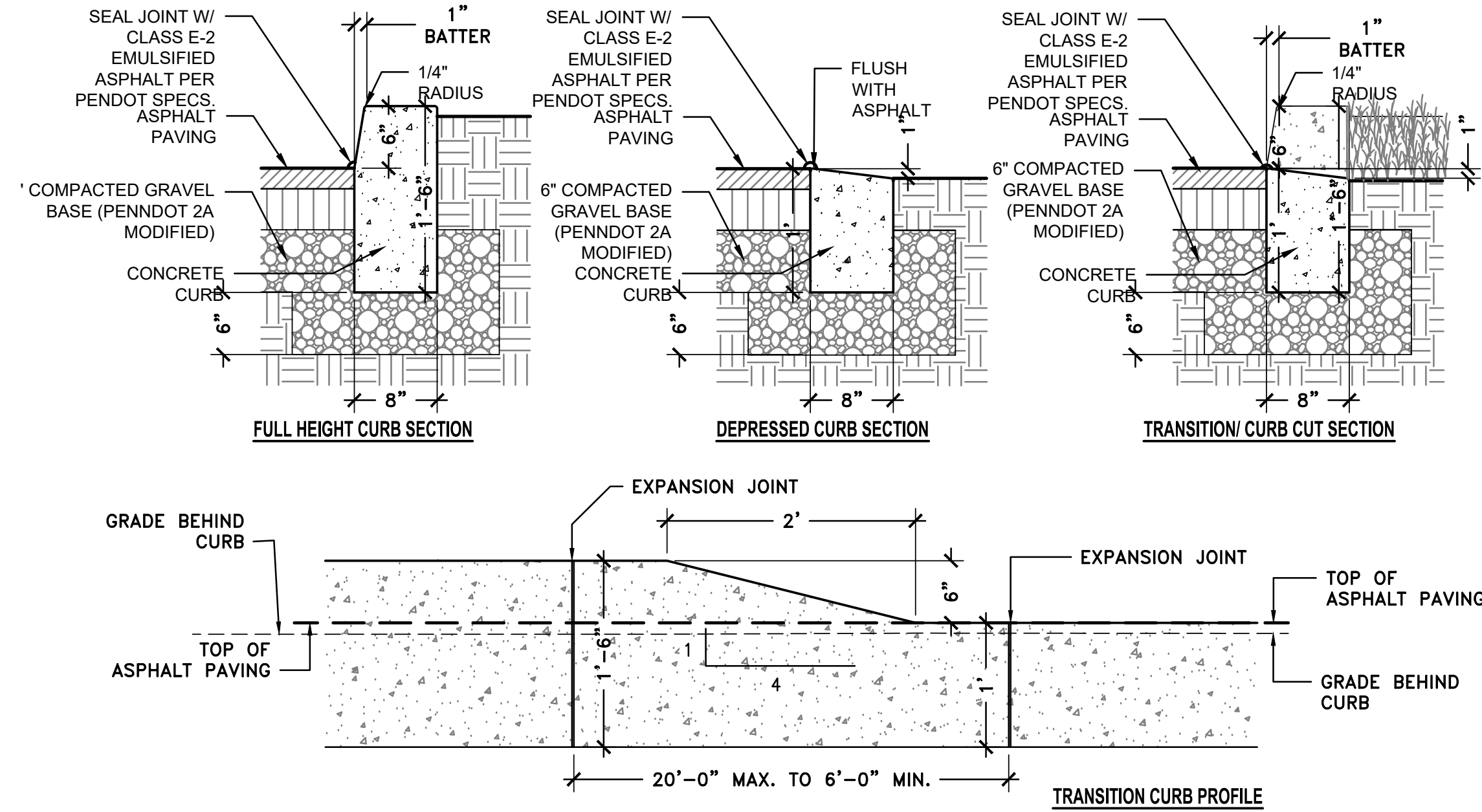
6 PRE-CAST CONCRETE BENCH DETAIL
TYPICAL



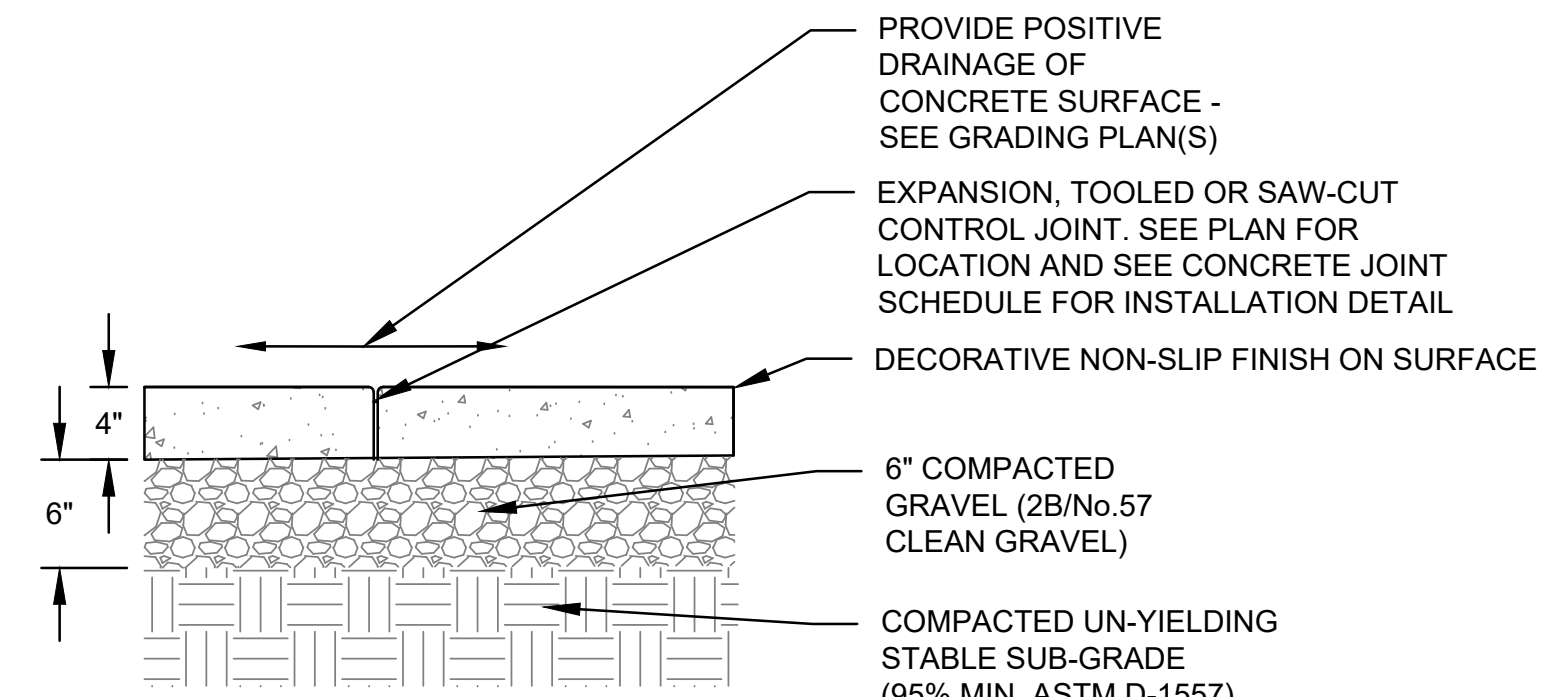
5 ASPHALT PAVING DETAIL
TYPICAL



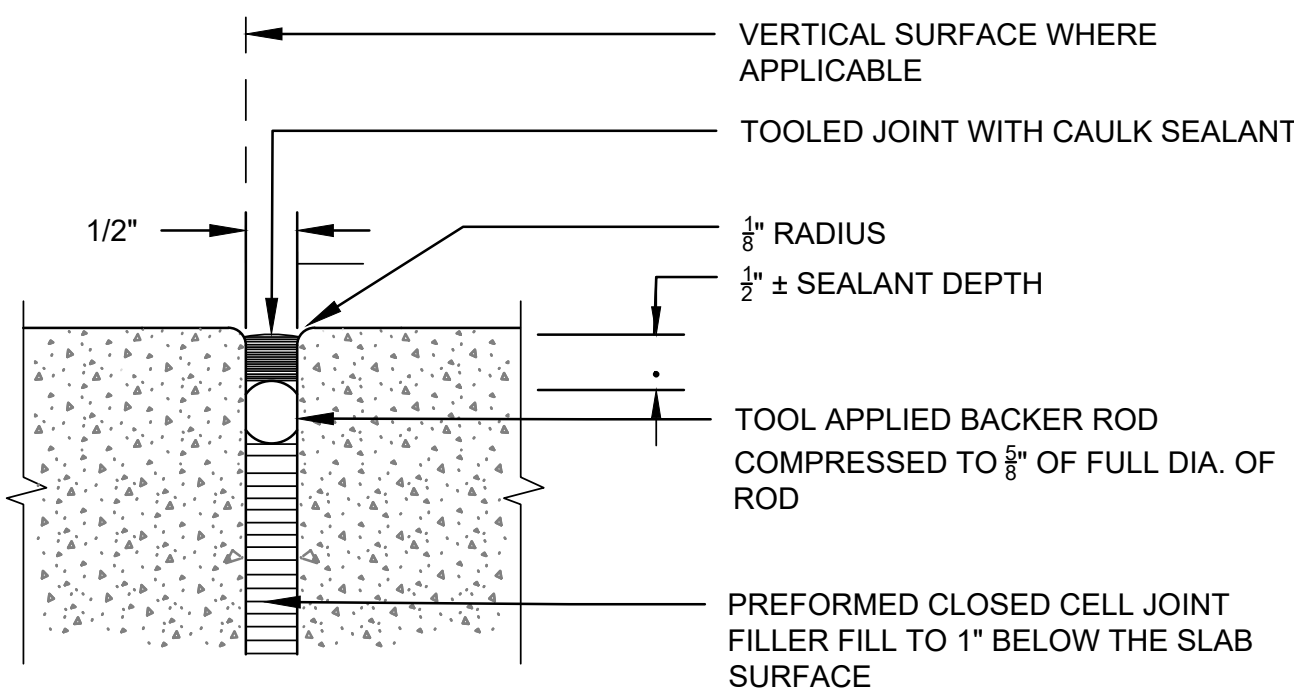
4 DRIVEWAY APRON DETAIL
TYPICAL



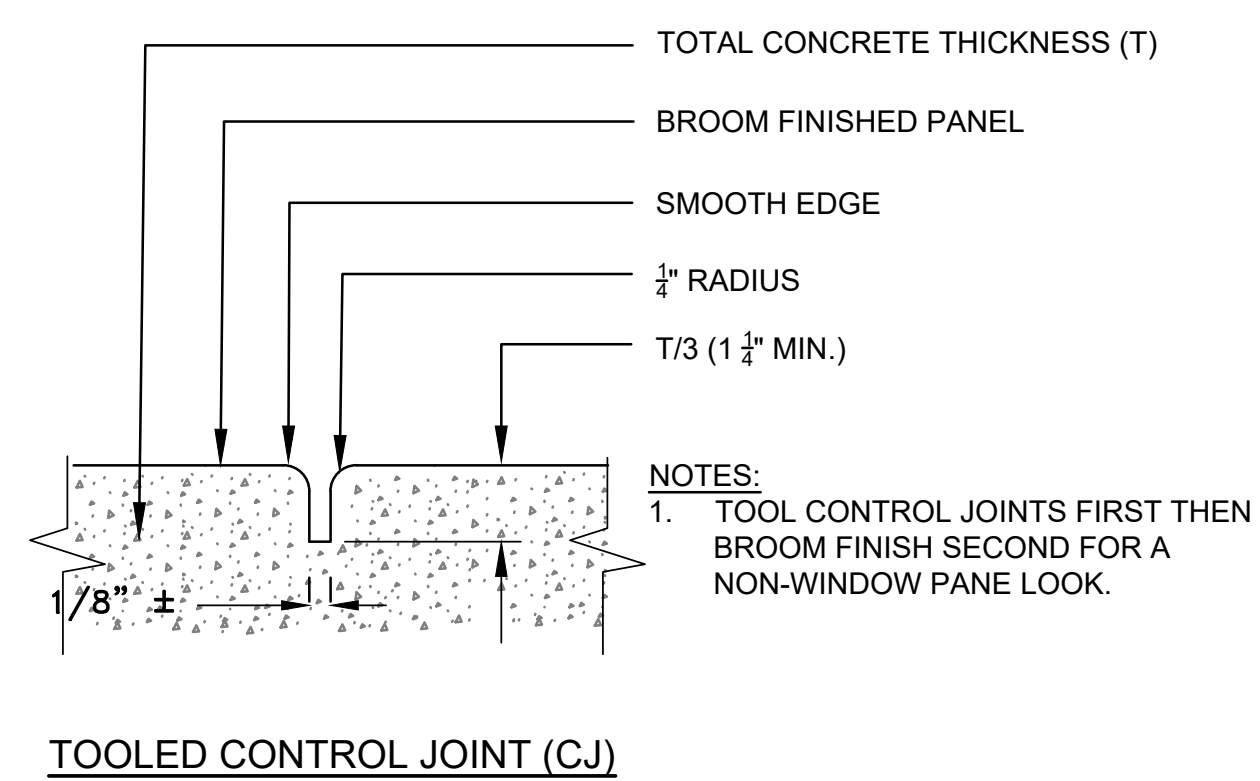
3 CONCRETE CURB DETAILS
TYPICAL



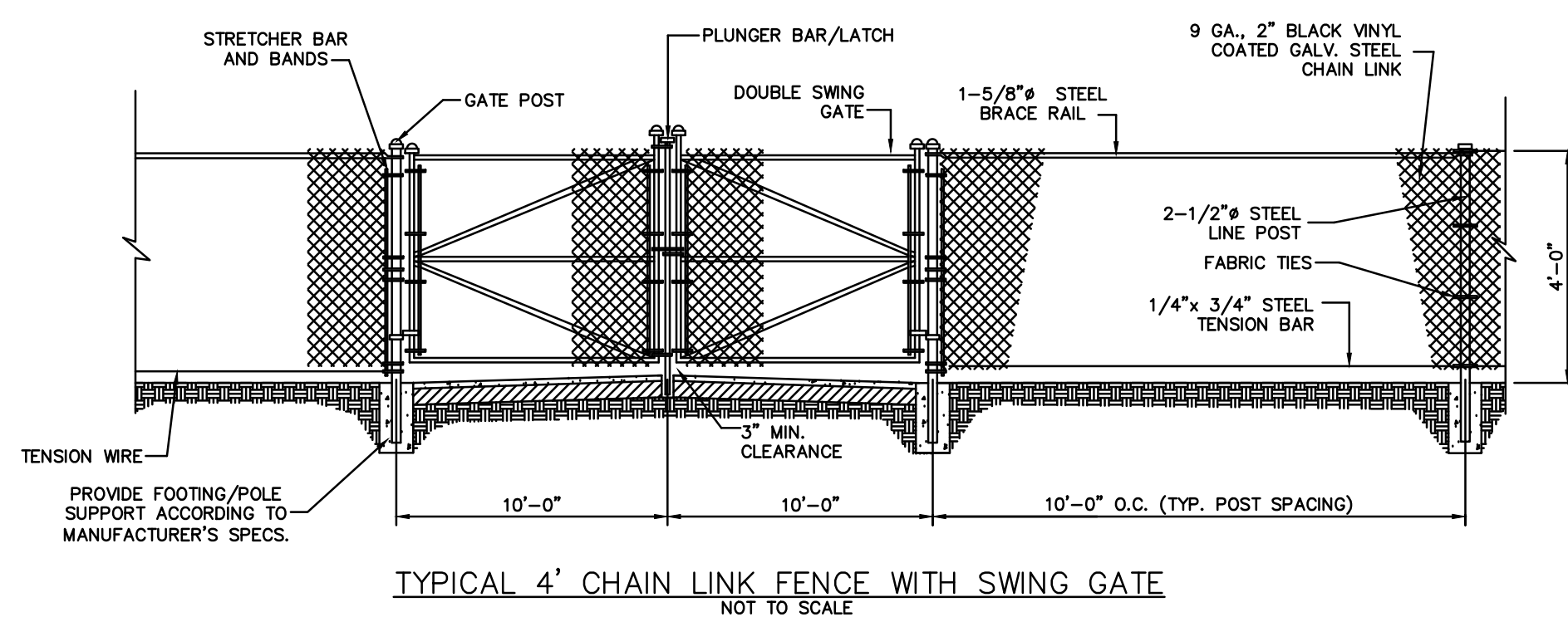
2 4" THICK CONCRETE PAVING DETAIL
NTS



1 CONCRETE PAVING JOINT DETAIL
TYPICAL



GILMORE & ASSOCIATES, INC. ENGINEERING & CONSULTING SERVICES 100 CORPORATE DRIVE WEST LAWRENCEVILLE, GA 30046 770.962.9955 • www.gilmore-assoc.com	
GA	
JOB NO.: 21-07025	TAX MAP PARCEL NO.: 05-061-499/498
MUNICIPAL FILE NO.: NOT APPLICABLE	CHECKED BY: KMS
OWNER: BRISTOL TOWNSHIP 2501 BATH ROAD BRISTOL, PA 19007 215-785-0500	DESIGNED BY: LCR/MDS
TOTAL AREA: 5.1 AC	DRAWN BY: LCR/MDS
DATE: 5/15/2022	SCALE: AS NOTED
PUBLIC IMPROVEMENTS SITE DETAILS MARIE LOWE DRIVE COMMUNITY CENTER BRISTOL TOWNSHIP, BUCKS COUNTY, PENNSYLVANIA	
REV.	DESCRIPTION
DATE	BY
SHEET NO.: 9 OF 10	



TYPICAL 4' CHAIN LINK FENCE WITH SWING GATE

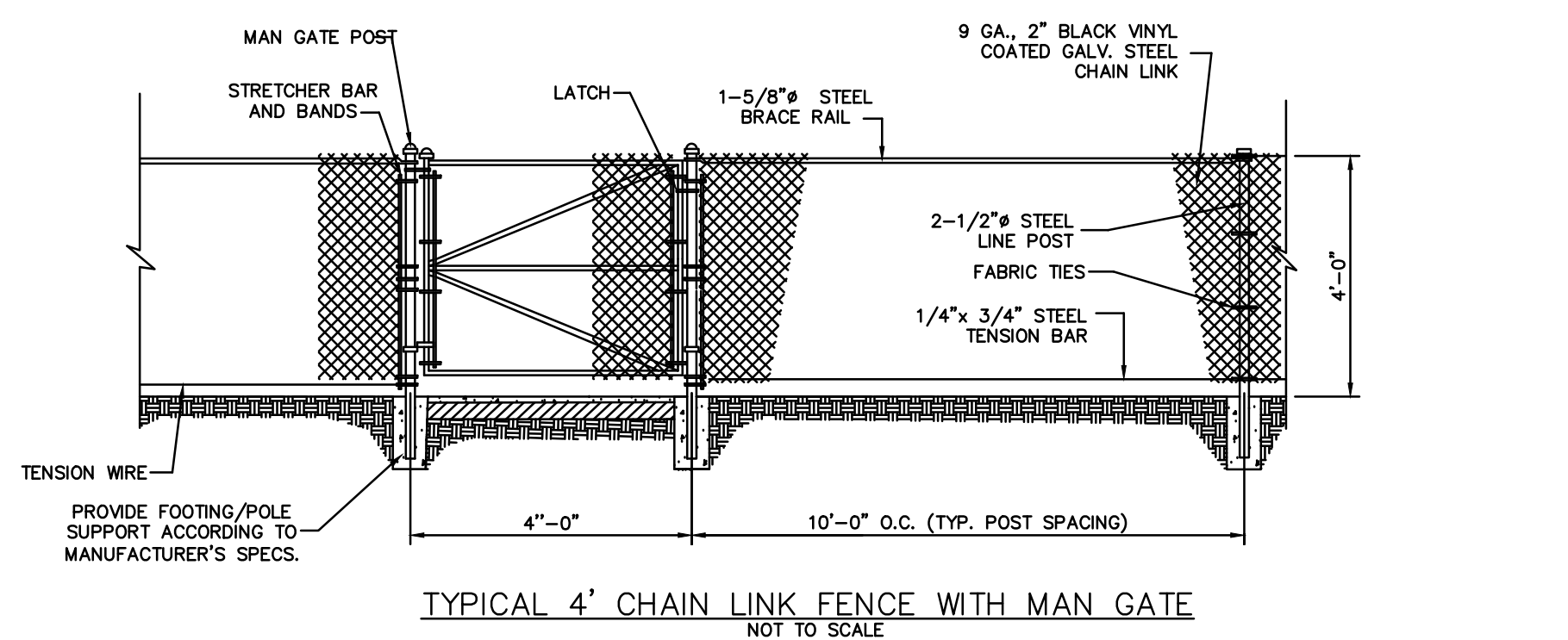
NOT TO SCALE

NOTES: ALL MATERIALS, DIMENSIONS, ETC. ARE SUGGESTED
AND MAY BE ADJUSTED PER A PARTICULAR FENCE
MANUFACTURER'S SPECIFICATIONS.

ANY GATE PROVIDED FOR THIS FENCING SHALL BE SELF-CLOSING AND SELF-LATCHING.

1 TYPICAL 4' CHAIN LINK FENCE WITH SWING GATE

NTS



TYPICAL 4' CHAIN LINK FENCE WITH MAN GATE

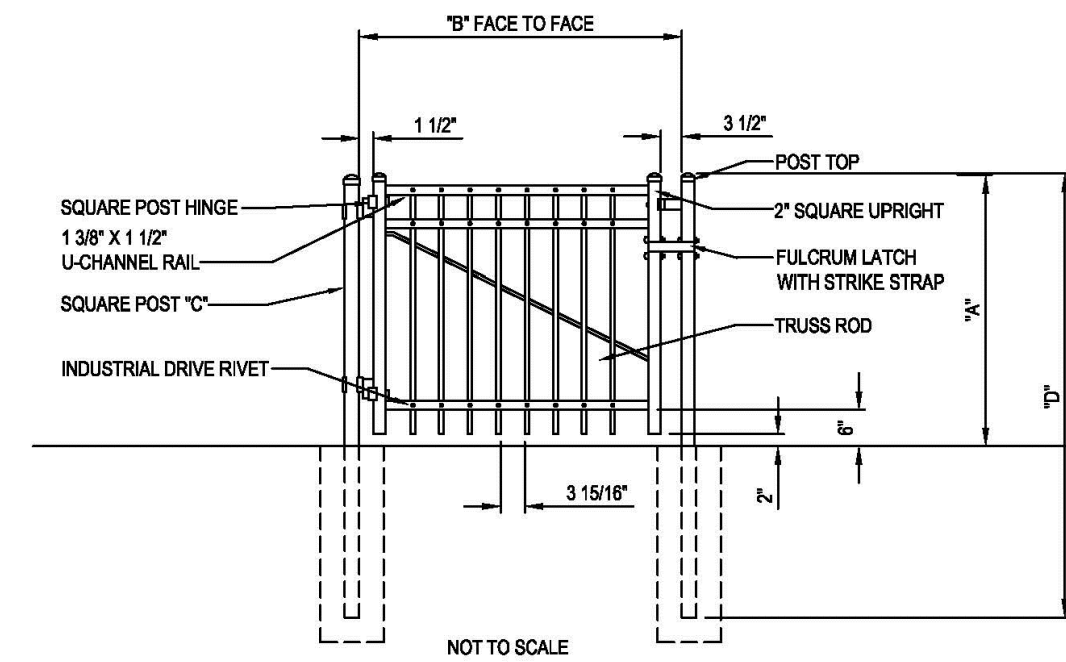
NOT TO SCALE

NOTES: ALL MATERIALS, DIMENSIONS, ETC. ARE SUGGESTED
AND MAY BE ADJUSTED PER A PARTICULAR FENCE
MANUFACTURER'S SPECIFICATIONS.

ANY GATE PROVIDED FOR THIS FENCING SHALL BE SELF-CLOSING AND SELF-LATCHING.

4) TYPICAL 4' CHAIN LINK FENCE WITH MAN GATE

NTS



NOM HEIGHT (A)
3'-0"
3'-6"
4'-0"
5'-0"
6'-0"
7'-0"
8'-0"
CUSTOM HEIGHTS
AVAILABLE

POST OPTION (C)

3" SQ X 12 GA
4" SQ X 11 GA
6" SQ X 3/16" WALL
8" SQ X 1/4" WALL
10" SQ X 1/4" WALL

PICKET OPTION (E)

3/4" SQ	}	14 GA
OR		16 GA
1" SQ		18 GA

A ____ * NOM HEIGHT
B ____ * FACE TO FACE OF POSTS
C ____ * POST SIZE ____ GAUGE
D ____ * POST LENGTH
E ____ * PICKET SIZE ____ GAUGE

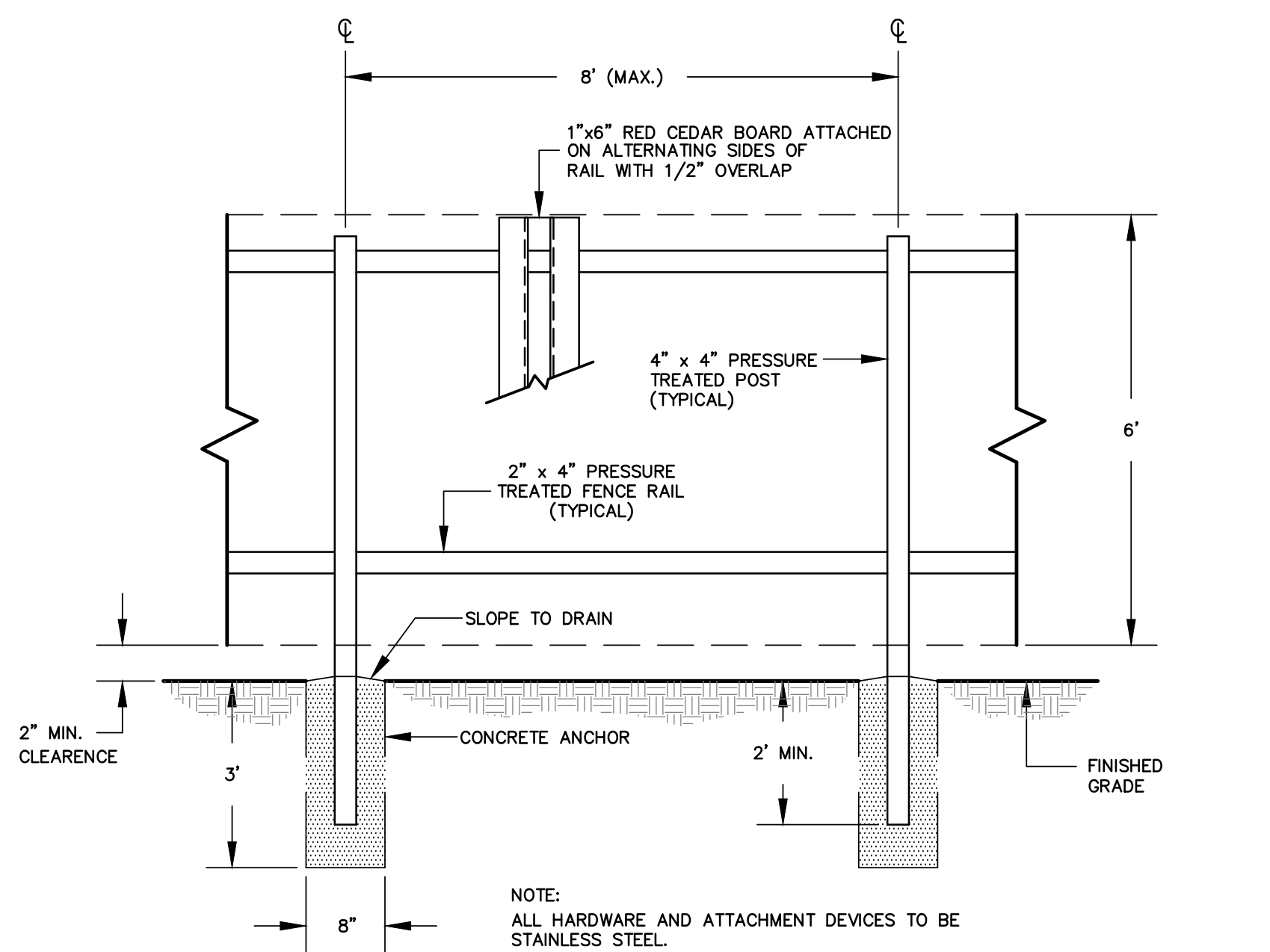
NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. SPECIFICATIONS SHOWN CAN BE CHANGED ONLY BY THE MANUFACTURER.
4. FOOTING WIDTH TO BE (4) X POST WIDTH.
5. CONTRACTORS NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/Info

REFERENCE NUMBER 2812-015.

5 ORNAMENTAL FENCE MANGATE

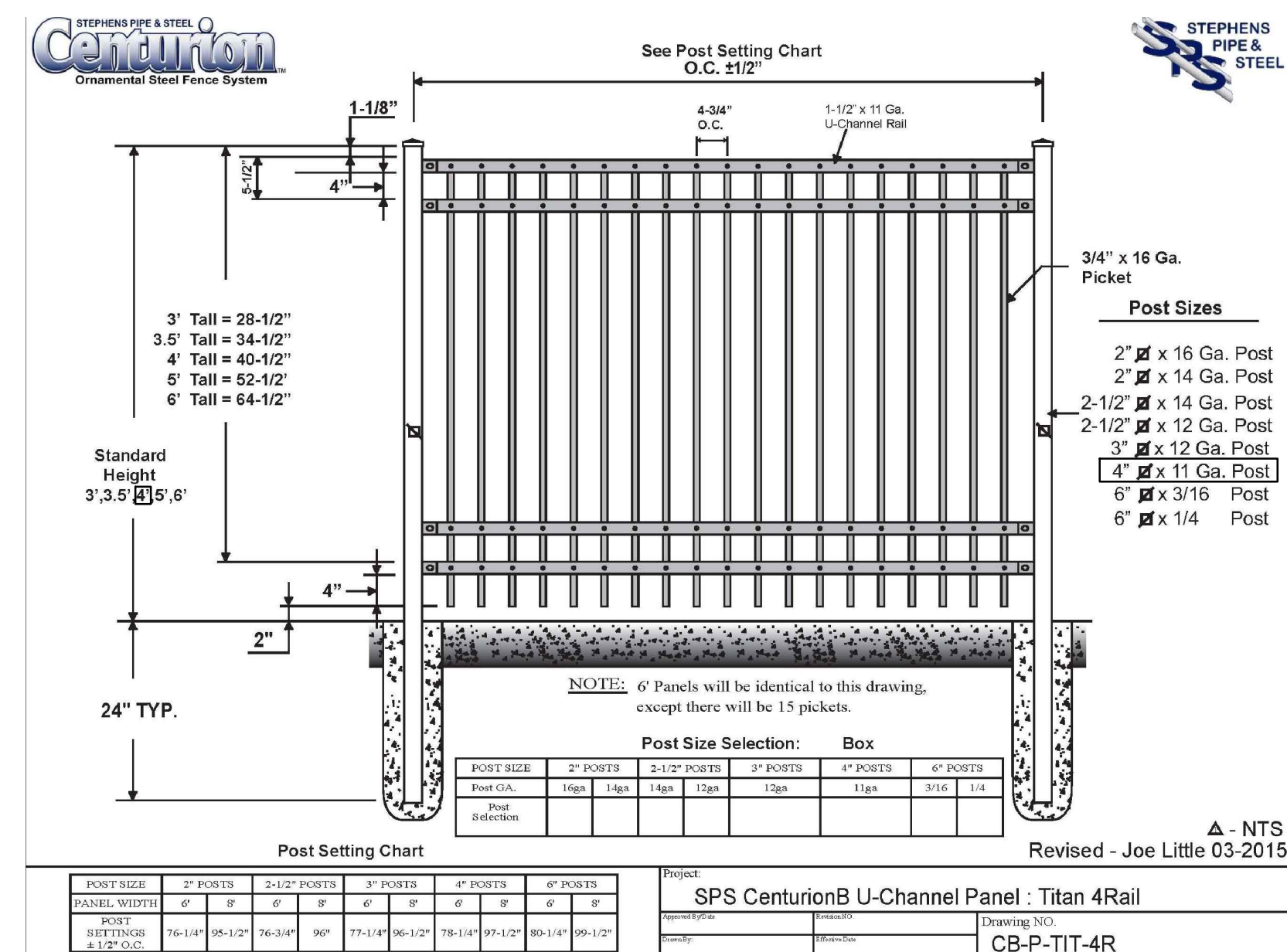
NTS



2 6' TALL SHADOW BOX FENCE ENCLOSURE

TYPICAL

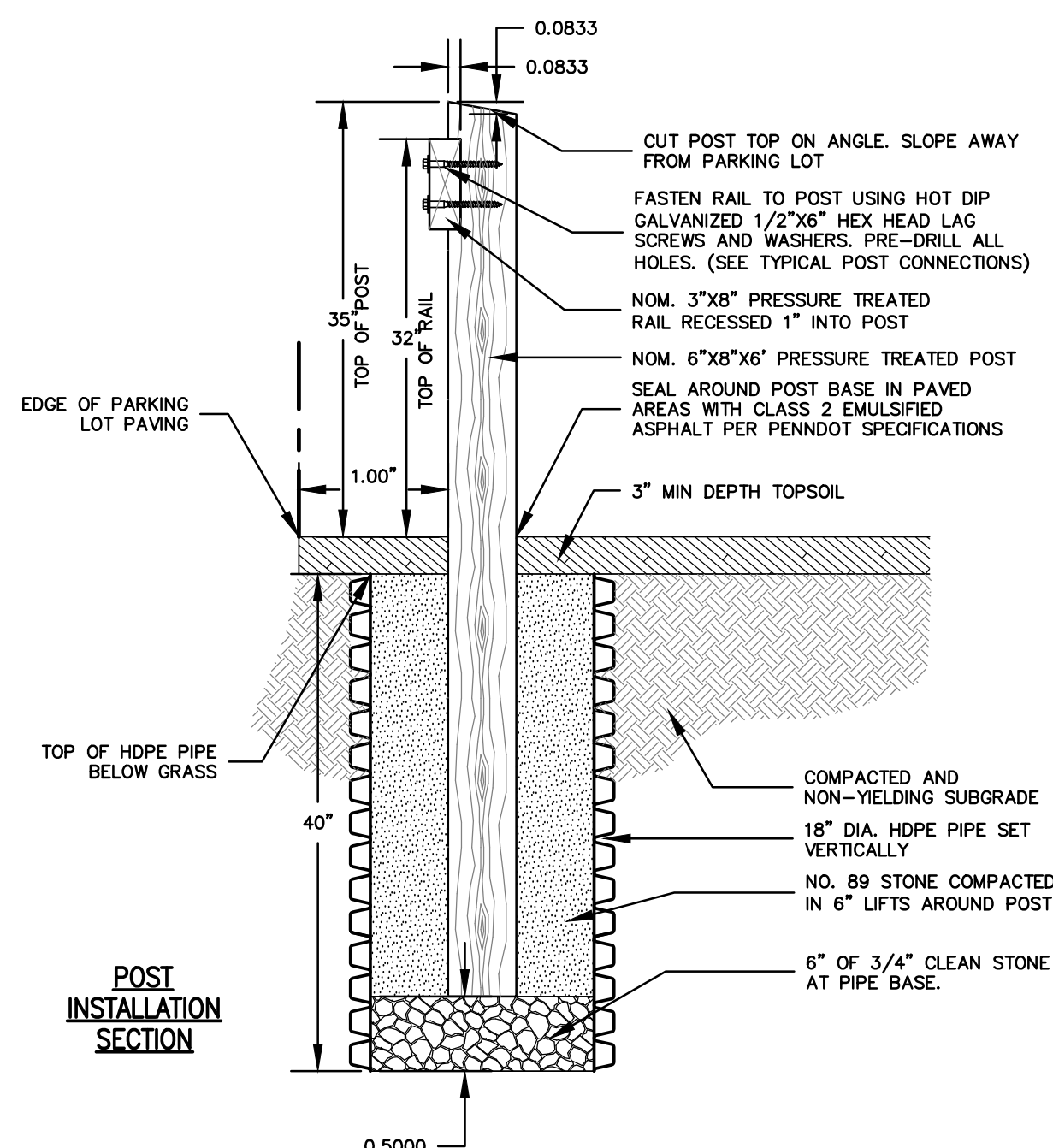
N.T.S.



3 4 RAIL ORNAMENTAL PICKET FENCE DETAIL

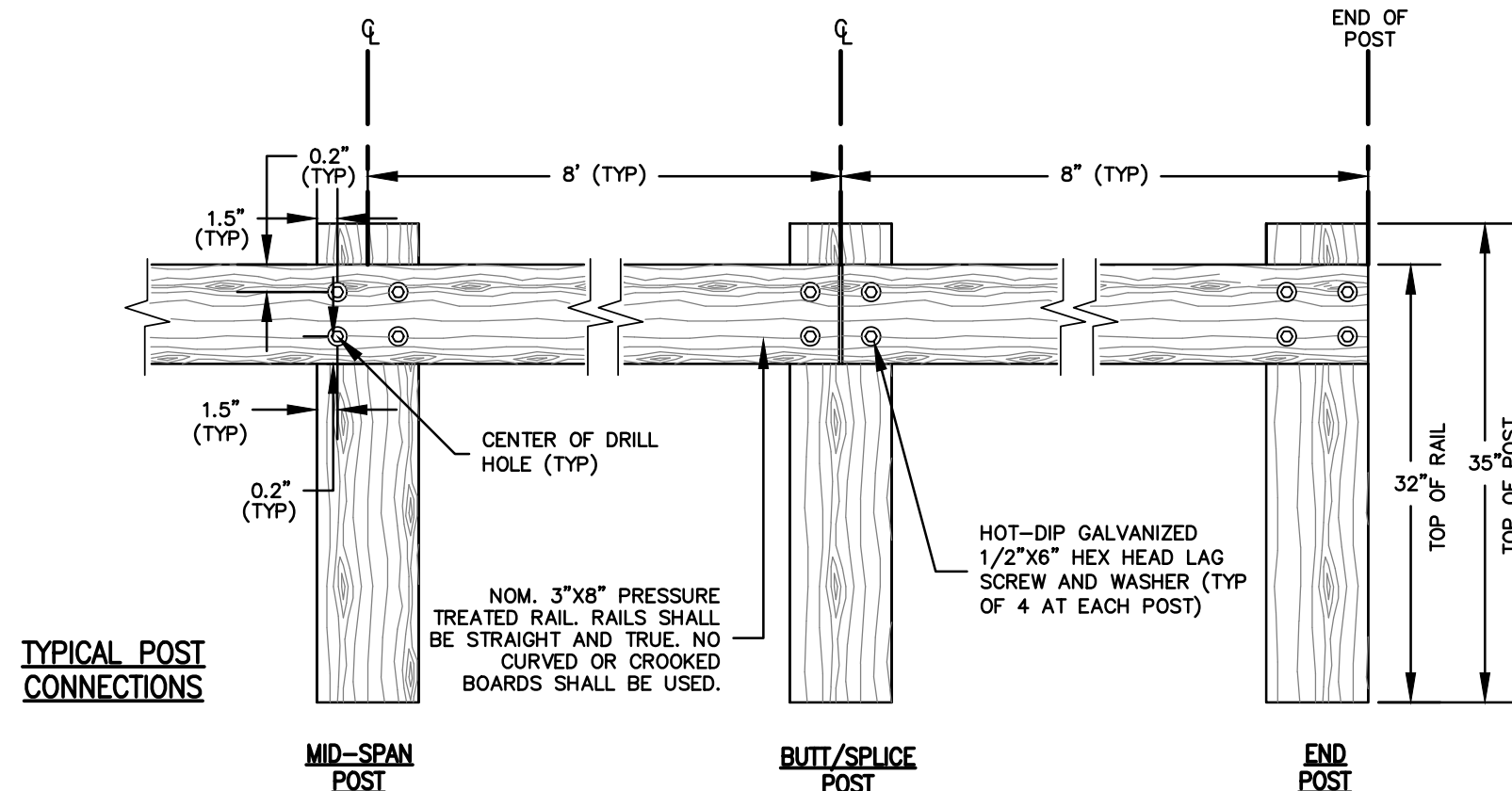
TYPICAL

N.T.S



1 WOODEN GUIDERAIL DETAIL

16



TYPICAL POST CONNECTIONS

NTS