



UPPER UWCHLAN TOWNSHIP
PLANNING COMMISSION
AGENDA

September 14, 2023
7:00 p.m.

LOCATION

Upper Uwchlan Township Building, 140 Pottstown Pike, Chester Springs PA 19425

- I. Call To Order
- II. Approval of Minutes: June 8, 2023 Meeting minutes
- III. 164 Byers Road ~ QBD Ventures Land Development Plan
Discuss consultants' reviews of the plans last revised August 4, 2023
- IV. Meeting Updates ~ Reports
 - A. Environmental Advisory Council (EAC)
 - B. Historical Commission (HC)
 - C. Active Transportation Plan (ATP)
- V. Next Meeting Date: October 12, 2023 7:00 p.m.
- VI. Open Session
- VII. Adjournment



UPPER UWCHLAN TOWNSHIP
Planning Commission Meeting
June 8, 2023
7:00 p.m. Meeting
Minutes
Draft

LOCATION: Township Building, 140 Pottstown Pike, Chester Springs PA 19425

Attendees:

Joe Stoyack, Vice-Chair; Chad Adams (via telephone), David Colajezzi, Jim Dewees, Jeff Smith
MaryLou Lowrie, P.E., Gilmore & Associates
Gwen Jonik, Planning Commission Secretary

Absent: Stephen Fean, Ravi Mayreddy, Sally Winterton

Joe Stoyack called the Meeting to order at 7:00 PM as a quorum was present. There were 2 citizens in attendance.

Chester County Parks & Facilities Conditional Use and Land Development Plan, and Natural Lands Trust Conditional Use Plan

Ari Christakis, Esq., Buckley Brion McGuire & Morris, is representing both the County and Natural Lands Trust for the 2 conditional uses and the County's land development plan. Nick Feola of Bursich Associates and Dave Stauffer, the County's Director of Parks and Preservation, and Jack Stefferud of Natural Lands Trust were in attendance.

The County had submitted in May 2019 a conditional use application to allow municipal use (Township Code Section 200.44.I.(10) of property zoned Limited Industrial (LI) to extend the Struble Trail from its current terminus, cross Dorlan Mill Road, and connect with Marsh Creek State Park. The Planning Commission had favored the Application in July 2019 and for a variety of reasons, COVID being one of them, the Application did not move forward to a Hearing. Following many extensions granted by the County, the Application is before the Township for review and approval. In the meantime, Natural Lands Trust has purchased property the Trail will traverse, and they have submitted a conditional use application seeking the same – municipal use. Once the Trail is constructed over Natural Lands' property, they'll give the property to the State.

The County has submitted revised preliminary/final land development plans for construction of the Trail.

Joe Stoyack summarized what was being requested of the Planning Commission tonight: recommendations for the Board of Supervisors for Natural Lands Trust's conditional use application, the County's conditional use application, and the County's preliminary/final land development plan.

Mr. Christakis noted the conditional hearings and land development plan approval are scheduled to be heard by the Board of Supervisors at their June 19, 2023 meeting. A waiver has been requested to allow the land development plan to be combined preliminary and final.

Mr. Feola provided a brief overview of the changes to the plan since the 2019 submission. Retaining walls had been needed along a portion of the Trail, but with Natural Lands acquiring 2.7-acre parcel, the County can shift the trail further into the site, which allows for additional buffering between the trail and the Shryock property and the grading is better, eliminating the retaining walls. The miller's house and garage have been demolished.

David Colajezzi called attention to the Historical Commission's recommendations regarding conditions for approving the land development plan, including preserving as much of the historical structures as possible or creating a stone outline of the miller's house foundation. Placing a historical marker or plaque was also recommended. Mr. Feola advised that Natural Lands will remove the stairs that led to the house, to accommodate the road crossing. Mr. Christakis noted the County and Natural Lands will coordinate with the Township regarding the historical marker.

Dave Stauffer noted the trail goes through the 2.7-acre parcel and meets a trail in Marsh Creek State Park; this is a trail connection. Nick Feola advised the storm water management is proposing a trench and drain. There were no issues from Gilmore & Associates. The County will check with PennDOT regarding the Highway Occupancy Permit (HOP) to cross the road and the signal permit. They will comply with all other Township ordinances, except for the requested waiver.

Joe Stoyack returned to the preservation of the existing walls in the front and back of the where the house was, and the step. Jack Stefferud advised they'll leave the back wall, but the front wall and stairs need to be removed to grade out the trail. The foundation has been removed and the State is not interested in an outline of the foundation, considered a structure, being created. A plaque on the trail is allowable.

Commission members asked if it would be allowed if the Township agrees to maintain a foundation outline. Mr. Christakis does not know what the State would think about that but suggested the Township contact DCNR as that's not in the County's or Natural Lands' purview.

Gerry Stein, Greenridge Road resident, inquired who maintains the ruins further south along the Struble Trail. Mr. Stauffer advised that the Dowlin Forge ruins are owned by Uwchlan Township and they, or their Historical Commission, maintain it.

Steve Egnaczyk, Stonehedge resident, asked if the stair stones/materials can be used elsewhere. Mr. Stauffer advised they could save the stair materials and front stone wall materials for the township to repurpose elsewhere; that is up to the Township.

Cathy Tomlinson, N. Reeds Road resident suggested those materials could be added to the footings left over from the train bed on N. Reed Road, also part of the Park.

Discussion included: for conditional uses, if the applicant can show they can meet all zoning ordinances, the applicant is entitled to their conditional use approval; the Planning Commission provides recommendations to the Board and the Board decides approval, approval with conditions, or denial; perhaps an alternative set of stairs could access the plateau where the house stood; it is believed that DCNR isn't interested in ruins due to insurance reasons; it was suggested the Commission not recommend approval this evening and investigate creating ruins of the house first.

Jim Dewees moved, seconded by Jeff Smith, to recommend the approval of Natural Lands Trust's conditional use application. The motion carried unanimously.

Jeff Smith moved, seconded by Jim Dewees, to recommend the approval of the County's conditional use application, to extend the Struble Trail. The motion carried unanimously.

Jim Dewees moved, seconded by Jeff Smith, to recommend granting the waiver for the land development plan to be combined Preliminary/Final. The motion carried unanimously.

Joe Stoyack moved, seconded by Jeff Smith, to recommend Preliminary/Final Land Development Plan approval to Chester County's "Preliminary/Final Land Development Plan Struble Trail – Extension II" dated May 1, 2019 and last revised May 17, 2023, as presented, with the following recommendations:

1. Applicant to preserve the retaining wall that was in back of the Dorlan Mill miller's house;
2. That the Township work with the Commonwealth/DCNR to preserve the remaining structures as best as possible per the Historical Commission's February 2023 recommendations, at the Township's expense, potentially obtaining permission to build a low stone wall outlining the Dorlan Mill miller's house foundation;
3. Stone materials that may be removed during the Trail construction process be offered to the Township;
4. That the Township craft and install an interpretative sign/plaque where the house stood.

The motion carried unanimously.

Eagleview Corporate Center Lot 1A Preliminary/Final Land Development Plan

Neal Fisher of the Hankin Group reiterated the project, which proposes a 60,000 SF flexible building (office, lab, R&D, warehouse, etc.) on Lot 1A, a 13.5-acre parcel accessed from the Arrowhead Drive cul-de-sac. The consultants' review letters were very clean. They will show future parking; they currently show the trail terminating at Arrowhead Drive but that will eventually connect with a trail plan on Arrowhead Drive. The trail plan will move along quicker than the building construction. The Board of Supervisors had previously granted the requested waivers following the Planning Commission's recommendations. They will comply with everything in Gilmore's May 30, 2023 review letter. They do not yet have a tenant and no timeframe for building. The architectural lighting wasn't included as that will be determined once there is a tenant and they know where the entrances, etc. will be located.

Jeff Smith moved, seconded by Jim Dewees, to recommend to Preliminary/Final Land Development Plan approval. The motion carried unanimously.

Approval of Minutes

Jeff Smith moved, seconded by Jim Dewees, to approve as presented the minutes of the Planning Commission's April 13, 2023 meeting. The motion carried unanimously.

David Colajezzi moved, seconded by Jeff Smith, to approve as presented the minutes of the Planning Commission's May 11, 2023 meeting. The motion carried unanimously.

Meeting Updates

Environmental Advisory Council (EAC). There was no update as the June meeting had been cancelled.

Historical Commission (HC). David Colajezzi reported the HC met June 6 and topics of discussion were the August 3 summer walking tour, in which the HC is participating, and volunteers are needed; the historic resource inventory update is in progress.

Joe Stoyack noted that at the next HC meeting, after tonight's discussions regarding the Dorlan Mill ruins, we need to move along with an historic preservation ordinance. David Colajezzi and Jim Dewees will attend the HC's July 10 meeting to assist.

Gerry Stein noted that current protections are only in the Village Concept Plan but the rest of the township is unprotected. Joe Stoyack reiterated that we need to turn the Village Design Guidelines into design standards within the ordinances.

Chad Adams suggested we invite the Township Solicitor or Brandywine Conservancy to a Commission workshop to work on those ordinances.

Active Transportation Plan (ATP). Gwen Jonik noted a public workshop was held in May at the Pickering Valley Elementary School and residents have provided good feedback from that workshop and the public survey. They are scheduled to meet June 13.

Joe Stoyack announced the next Commission meeting, July 13. No 6:00 p.m. Workshop.

Open Session

Gwen Jonik reminded everyone the 13th Annual Block Party is June 17, 2023.

Adjournment

Jim Dewees moved to adjourn at 8:41 p.m. Everyone seconded.

Respectfully submitted,

Gwen A. Jonik
Planning Commission Secretary

DRAFT



GILMORE & ASSOCIATES, INC.
ENGINEERING & CONSULTING SERVICES

September 11, 2023

E-MAIL ONLY

File No. 09-07021T

Mr. Tony Scheivert
Upper Uwchlan Township Manager
140 Pottstown Pike
Chester Springs, PA 19425

Reference: QBD Ventures
Preliminary/Final Land Development Plan
Upper Uwchlan Township, Chester County, PA

Dear Tony:

Gilmore & Associates, Inc. (G&A) is in receipt of the following documents:

- Response Letter from DL Howell dated August 4, 2023.
- Plan set consisting of thirteen (13) sheets titled “QBD Ventures” prepared by D.L. Howell & Associates, Inc. (Howell), dated December 21, 2020, last revised August 4, 2023.

G&A, as well as the other Township Consultants have completed our third review of the above referenced Preliminary/Final Land Development Application for compliance with the applicable sections of the Township’s Zoning Ordinance, Stormwater Management Ordinance, and Subdivision and Land Development Ordinance, and wish to submit the following comments for your consideration. The project did receive Final Land Development Approval in August 2010; however, that approval has expired.

Please note that comments with a **(RW)** denotes a requested waiver and may require relief from the Township Ordinances. Comments in *italics* are from our previous review letter, and comments in **bold text** require resolution by the applicant. Previous comments which have been satisfactorily addressed are not repeated herein.

BUILDING ON A FOUNDATION OF EXCELLENCE

184 W. Main Street | Suite 300 | Trappe, PA 19426
Phone: 610-489-4949 | Fax: 610-489-8447
www.gilmore-assoc.com

File No. 09-07021T

September 11, 2023

I. OVERVIEW

The parcel is approximately 0.7 acres in size and is zoned C-1 (Village Commercial District) and is located approximately 300 feet east of the intersection of Graphite Mine Road and Byers Road. The Applicant is proposing to demolish the existing buildings and construct a 2-story, 4,400 SF office building with and associated parking facilities. The parcel will provide a two-way access via Byers Road. An underground detention basin will be utilized to control the increased runoff from the subject site.

II. ZONING

We have no zoning comments at this time.

III. SUBDIVISION & LAND DEVELOPMENT ORDINANCE REVIEW

1. (RW) Section 162-8.B. – *The Applicant has submitted this application as a Preliminary/Final Application. A waiver is required from this section to permit this type of approval.*

The Applicant has requested a waiver to allow this application to be considered a Preliminary/Final Application. We have no objection to this request.

2. (RW) Section 162-32.F - *A waiver is being requested, and was previously granted, to permit a 35' curb radius on the southwest corner of the intersection of the proposed driveway and Byers Road contingent upon Pa-DOT's concurrence. However, as the land development approval has expired, it is being requested again.*

3. (RW) Section 162-55.D.(1) & (2) - *A portion of the southeastern corner of the site contains Glenville Silt Loam, which is classified as a hydric soil and is part of a riparian buffer area. The plans shall indicate this area as a riparian buffer; it is noted that an inlet, a storm pipe, paving, and a portion of the retaining wall are proposed within the riparian buffer. A waiver is being requested, and was previously granted, to permit the construction of a structure in the riparian buffer. However, as the land development approval has expired, it is being requested again.*

File No. 09-07021T

September 11, 2023

4. (RW) Section 162-57.6(b) – A partial waiver is being requested to allow a modified Landscape Plan with regard to building façade plantings, parking and loading landscaping, road frontage and tract boundary plantings.

We defer to the Planning Commission as to whether the proposed landscaping is sufficient to serve as an adequate buffer.

IV. STORMWATER MANAGEMENT ORDINANCE REVIEW

1. (RW) Section 152-305.A and 152-306.A - A waiver is being requested to not provide the required stormwater runoff volume reduction due to high groundwater levels on the property. The infiltration testing report concluded that an infiltration rate of 0.085 inches per hour should be used for design.

Due to the poor infiltration rates found on the site, we support the granting of this waiver.

2. (RW) Section 152-311.D - A waiver is being requested to provide an underdrain that is less than the minimum 18" below the foundation. The underdrain system should be in compliance with this section of the ordinance. The Applicant should verify that the underdrain system will be able to adequately drain and elevations should be provided on the plan which verify the underdrain is a minimum of 18" below the foundation as required under this section.

As proposed, the underdrain will be located approximately 16" below the foundation. We feel the difference between the required separation and that which is provided is de minimis. This coupled with the fact providing the required 18" will not allow for positive drainage away from the building, we support the waiver.

3. Section 152-402.F. – The Applicant shall provide an O&M plan, and agreement.

V. GENERAL COMMENTS

No comments at this time.

File No. 09-07021T

September 11, 2023

**VI. TOWNSHIP TRAFFIC CONSULTANT COMMENTS
(McMAHON ASSOCIATES, INC.)**

Based on our review, all of our previous technical comments have been addressed, and we have no further comments. The following is offered for informational purposes only.

Chapter 79-8.C – The proposed redevelopment is located in the Township's Act 209 Transportation Service Area, and as such, this site is subject to the Township's Transportation Impact Fee of \$2,334 per weekday afternoon peak hour trip. Based on the Institute of Transportation Engineers publication Trip Generation, 10th Edition, the proposed 4,400 square feet of office space generates five weekday afternoon peak hour trips. Therefore, the number of trips subject to the Township's Transportation Impact fee is five, and the resultant fee is **\$11,670**.

**VII. TOWNSHIP PLANNING CONSULTANT COMMENTS
(BRANDYWINE CONSERVANCY)**

All outstanding comments have been addressed.

**VIII. TOWNSHIP MUNICIPAL AUTHORITY CONSULTANT COMMENTS
(ARRO CONSULTING, INC.)**

1. The current plan currently shows the sanitary sewer mains within Byers Road in the proposed locations, the as-constructed conditions should be reflected on the plans. Additionally, a sanitary sewer lateral has been provided for this property. The proposed private sanitary sewer drain location should be revised accordingly. The as-constructed plan information will be provided to the applicant's engineer.

Mr. Tony Scheivert

Page - 5 -

Upper Uwchlan Township Manager

Reference: QBD Ventures

Preliminary/Final Land Development Plan

Upper Uwchlan Township, Chester County, PA

File No. 09-07021T

September 11, 2023

2. We estimate the anticipated sewer usage to be 225 gallons per day (GPD) or one (1) equivalent dwelling unit (EDU). The required capacity will need to be purchased by the applicant. We recommend the Township reserve the right to review water usage in the future and require the purchase of additional sanitary sewer capacity if warranted.
3. The necessary financial security shall be posted with the Township, which shall be in a form and amount acceptable to the Township.

This concludes the third review of the above-referenced plan. We would recommend the plans be revised to address the above referenced comments as any comments raised by the Township Planning Commission or Board of Supervisors.

If you have any questions, please do not hesitate to contact me.

Sincerely,

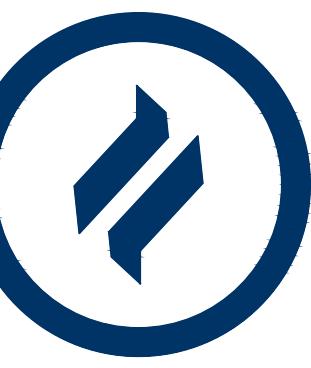
David N. Leh

David N. Leh, P.E.

Vice President

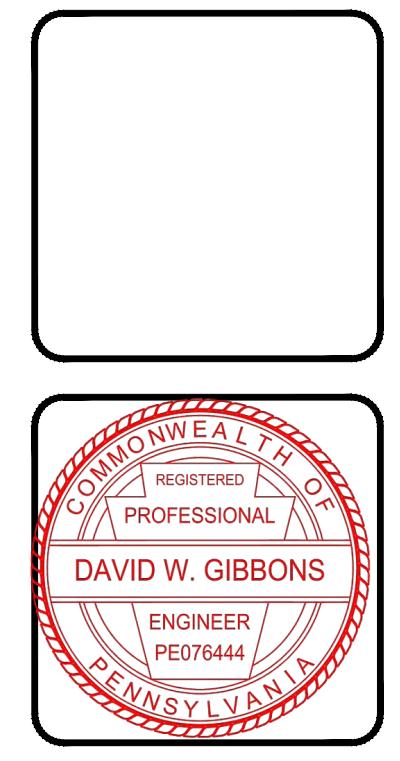
Gilmore & Associates, Inc.

cc: Upper Uwchlan Township Planning Commission Members
Upper Uwchlan Township Board of Supervisors
Kristin Camp, Esq. – BBM&M LLP (via email only)
Rob Daniels, ASLA, Brandywine Conservancy (Via e-mail only)
Christopher J. Williams, P.E., McMahon Assoc., Inc. (Via e-mail only)
David Schlott, P.E., ARRO Consulting, Inc. (Via e-mail only)
Peter Rogers, Applicant (Via e-mail only)
David Gibbons, P.E., D.L. Howell & Associates (Via e-mail only)



DLHowell
Civil Engineering
Land Planning
Environmental
www.DLHowell.com

1250 Wrights Lane
West Chester, PA 19380
Phone: (610) 918-9002
Fax: (610) 918-9003



CALL BEFORE YOU DIG!	3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE-STOP CALL
Pennsylvania One Call System, Inc.	1-800-242-1776
	ONE CALL NOTE NO SCALE
ACT 287 SERIAL NUMBER: 20092502101	3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE-STOP CALL
D. L. Howell & Associates, Inc. does not guarantee the accuracy of the locations for existing subsurface utility lines, structures, etc. shown on the plans, nor does D. L. Howell & Associates, Inc. guarantee that all subsurface utility lines, structures, etc. are shown.	3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE-STOP CALL
Contractor shall verify the location and elevations of all subsurface utility lines, structures, etc. before the start of work, by calling the Pennsylvania One Call System at 1-800-242-1776.	3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE-STOP CALL
UTILITIES NOTIFIED	3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE-STOP CALL
BUCKEYE PIPELINE COMPANY COMCAST CABLE COMMUNICATIONS, INC. PECO ENERGY VERIZON PENNSYLVANIA, INC. UPPER UWCHLAN TOWNSHIP UPPER UWCHLAN MUNICIPAL AUTHORITY	3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE-STOP CALL

PRELIMINARY CONSTRUCTION PLAN	
PROJECT: BYERS ROAD PROPERTY	
CLIENT: QBD VENTURES	LOCATION: 164 BYERS ROAD UPPER UWCHLAN TOWNSHIP, CHESTER COUNTY, PA
DATE: 12/21/20	SCALE: AS SHOWN
DRAWN BY: AM	CHECKED BY: DWG
PROJECT NO: 2146	CAD FILE: Q3 IMPROVEMENT CONSTRUCTION PLANNING
DRAWING NO: C03.01	PLOTTED: 08/04/23
DATE: 08/04/23	REvised per Township Review Letters
1. 06/01/23	REvised per Township Review Letters
DATE:	DESCRIPTION

LEGEND

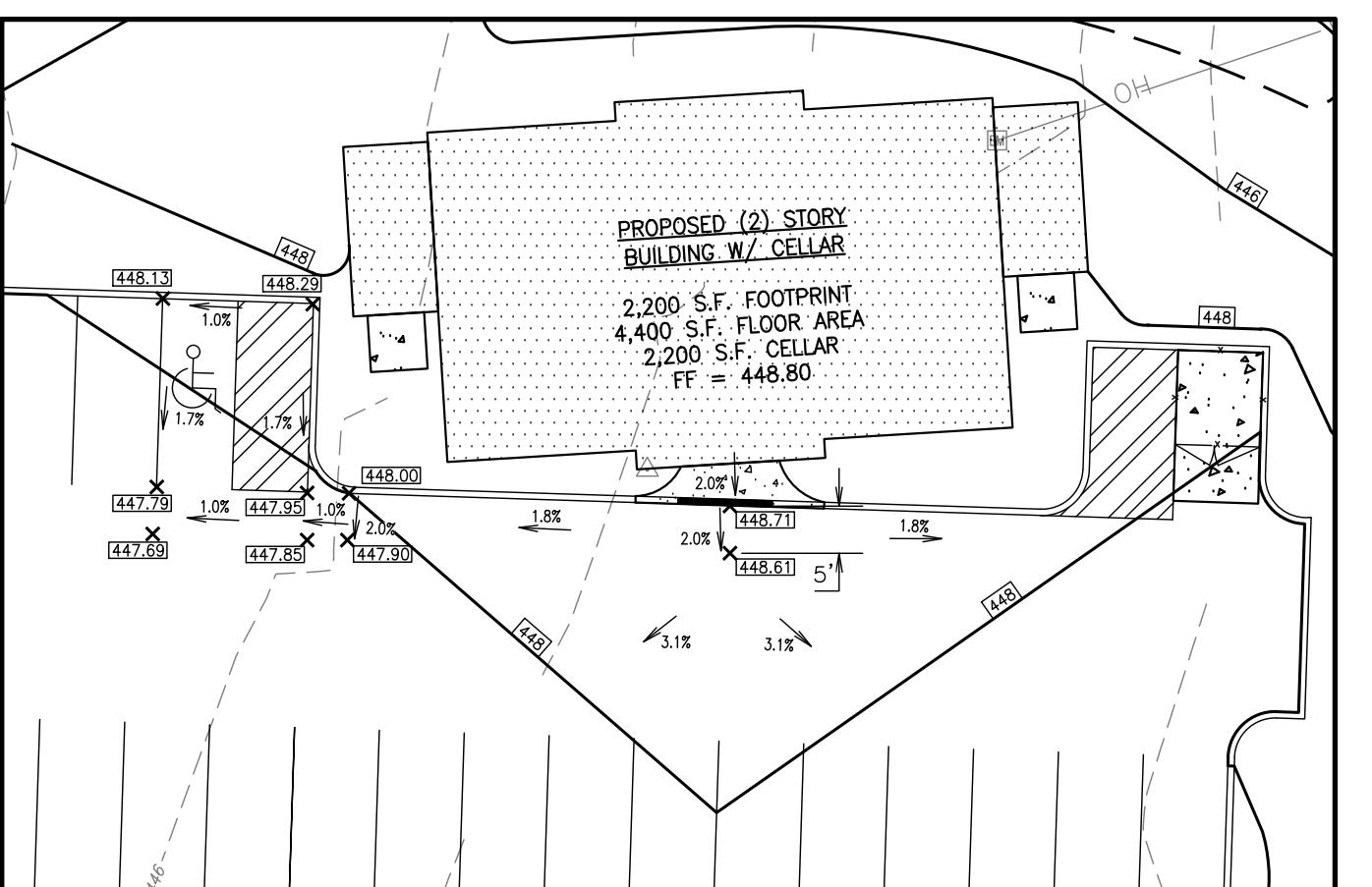
EX. PROPERTY LINE
PROP. PROPERTY LINE
EX. RIGHT-OF-WAY
PROP. RIGHT-OF-WAY
EX. MONUMENT
PROP. MONUMENT
EX. IRON PIPE
PROP. IRON PIPE
EX. EASEMENT
PROP. EASEMENT
EX. WETLANDS
242
EXISTING CONTOUR
PROPOSED CONTOUR
X 123.00
X 123.00
EXISTING SPOT ELEV.
NEW SPOT ELEV.
x 123.00
GEB2
SOILS TYPE
EX. CONC. CURB
PROP. CONC. CURB
EX. EDGE OF PAVING
PROP. EDGE OF PAVING
EX. LIGHT POLE
PROP. LIGHT POLE
EX. FENCE
EX. MAIL BOX
EX. SIGN
PROP. SIGN
EXIST. PARKING SPACES
PROP. PARKING SPACES
(TBR)
T TO BE REMOVED
EX. TELE. LINE
E EX. ELEC. LINE
E PROP. ELEC. LINE
EX. UTILITY POLE
PROP. UTILITY POLE
EX. GUY ANCHOR
EX. GAS LINE
C PROP. GAS LINE
G.V. PROP. GAS VALVE
G.V. PROP. GAS VALVE
EX. EX. STORM SEWER LINE
PROP. STORM SEWER LINE
EX. EX. STORM INLET
PROP. STORM INLET
PROP. SEEPAGE BED
EX. EX. SANITARY SEWER LINE
PROP. SAN. SEWER LINE
L PROP. SAN. SEWER LATERAL
MH PROP. SANITARY MH. ID
W PROP. WATER LINE
WL PROP. WATER LATERAL
FW PROP. FIRE WATER LINE
W.V. PROP. WATER VALVE
W.V. PROP. WATER VALVE
F.H. PROP. HYDRANT
F.H. PROP. HYDRANT
O PROP. MANHOLE
O PROP. MANHOLE

GENERAL NOTES:

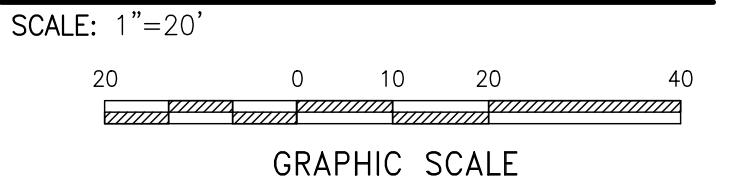
- PRIOR TO STARTING CONSTRUCTION, ALL UTILITY SERVICES IN THE AREA SHALL BE LOCATED AND MEASURES TAKEN TO PROTECT THE EXISTING FACILITIES. ANY DAMAGE TO EXISTING FACILITIES SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL PERSONS, VEHICLES AND BUILDINGS WITHIN THE CONSTRUCTION AREAS FROM INJURY AND DAMAGE DURING THE COURSE OF WORK.
- CONSTRUCTION SHALL BE LOCATED, AND MEASURES TAKEN TO PROTECT THE EXISTING FACILITIES IN ACCORDANCE WITH PENNSYLVANIA ACT 38. ANY DAMAGE TO EXISTING FACILITIES RESULTING FROM THE NEGLIGENCE OF THE CONTRACTOR SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT THE CONTRACTOR'S EXPENSE.
- LOCATION OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN DEVELOPED FROM FIELD SURVEY AND EXISTING RECORDS. COMPLETENESS AND ACCURACY OF EXISTING UTILITY INFORMATION IS NOT GUARANTEED. PRIOR TO THE START OF ANY CONSTRUCTION, THE CONTRACTOR SHALL ACCURATELY FIELD MEASURE LOCATION AND ELEVATION OF EXISTING UTILITIES AT POINTS OF CONNECTION AND POTENTIAL CONFLICT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND ENGINEER OF ANY DEVIATION FROM INFORMATION SHOWN ON THESE PLANS.
- ALL SITE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE LOCAL, COUNTY, STATE AND FEDERAL STATUTES AND REGULATIONS.
- ALL TRENCHING, SHORING AND EXCAVATING OPERATIONS SHALL BE PERFORMED IN COMPLIANCE WITH THE REQUIREMENTS OF THE U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
- SCALED DIMENSIONS FROM THIS PLAN SHALL NOT BE USED FOR CONSTRUCTION WITHOUT CONFIRMATION FROM D.L. HOWELL & ASSOCIATES, INC.
- IF ANY UNSUITABLE SOIL IS ENCOUNTERED DURING EXCAVATION, THE CONTRACTOR SHALL REMOVE IT AND REPLACE IT WITH COMPACTED STRUCTURAL MATERIAL.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE LOCAL AUTHORITY OR GOVERNING AGENCY OF THE BEGINNING DATE OF CONSTRUCTION AND TO ENSURE THAT NO WORK IS PERFORMED WITHOUT THE REQUIRED PERMITS AND INSPECTIONS BY THE LOCAL AUTHORITY OR GOVERNING AGENCY.
- IF CONDITIONS IN THE FIELD DIFFER FROM THOSE SHOWN ON THE PLAN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED TRAFFIC CONTROL, SHEETING, SHORING AND BARRENCING OF OPEN EXCAVATIONS.
- ALL MATERIALS AND METHODS OF CONSTRUCTION FOR STORMWATER FACILITIES AND SEEDING AND MULCHING SHALL CONFORM TO PENNDOT FORM 408 SPECIFICATIONS, 1994.
- ALL INLETS, MANHOLES AND ASSEMBLIES SHALL BE PRECAST CONCRETE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR AND HAVE COMPLETE CONTROL OVER CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, SAFETY PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK AND FOR COORDINATION OF ALL PORTIONS OF THE WORK UNDER CONTRACT.
- CONTRACTOR SHALL REVIEW VARIOUS PHASES OF WORK WITH THE OWNER TO DETERMINE WHETHER ANY PHASE WILL CONFLICT WITH THE OWNERS DAILY OPERATIONS. WHERE CONFLICT IS APPARENT THE CONTRACTOR SHALL COORDINATE WITH THE OWNER THE WORK TO BE PERFORMED SO AS TO BE THE LEAST DISRUPTIVE.
- ALL INLETS SHALL BE CONSTRUCTED FLUSH WITH THE BINDER COURSE.
- ALL CURBING, CONCRETE OR PAVING TO BE REMOVED SHALL BE CUT FIRST TO ENSURE A CLEAN SEPARATION FROM EXISTING MATERIAL.
- ANY PAVING DAMAGED DURING CONSTRUCTION ACTIVITIES SHALL BE REMOVED TO SUBGRADE AND REPLACED WITH THE FULL PAVING SECTION.
- WHERE ALL NEW BITUMINOUS PAVING MEETS EXISTING BITUMINOUS HOT BITUMINOUS SEALANT SHALL BE Poured ALONG THE SAW CUT JOINT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER REMOVAL, REPLACEMENT, AND MAINTENANCE OF ALL EXISTING LANDSCAPING DURING CONSTRUCTION. THIS INCLUDES PROPERLY STORING MATERIAL TO BE REUSED, PRUNING WHERE REQUIRED AND PROTECTING EXISTING ROOT STRUCTURES OF TREES WHERE CONSTRUCTION OCCURS WITHIN THE DRIP LINE.
- IF GROUNDWATER OR BEDROCK IS ENCOUNTERED DURING THE INSTALLATION OF THE ON-LOT PIPE STORAGE FACILITY STOP WORK AND CONTACT THE TOWNSHIP AND DESIGN ENGINEER FOR AN ALTERNATE LOCATION OR NEW DESIGN.
- IN ANY AREA SUBJECT TO VEHICULAR ACTIVITY DURING CONSTRUCTION, A 3 FOOT MINIMUM COVER SHALL BE MAINTAINED FOR ALL UNDERGROUND UTILITIES EXCEPT STORM SEWERS.

STORM SEWER NOTES:

- ALL STORM SEWERS SHALL BE CONSTRUCTED PER PENNSYLVANIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AS OUTLINED IN PUBLICATION 408 DESIGN MANUAL, PART 2, HIGHWAY DESIGN AND STANDARDS FOR ROADWAY CONSTRUCTION, RC-SERIES UNLESS OTHERWISE DICTATED BY TOWNSHIP ORDINANCE.
- INLETS, MANHOLES, COVERS AND FRAMES SHALL CONFORM TO PENNSYLVANIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
- DURING CONSTRUCTION ALL STORMWATER CONVEYANCE PIPING SHALL MAINTAIN A MINIMUM OF 12 INCHES OF COVER AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.



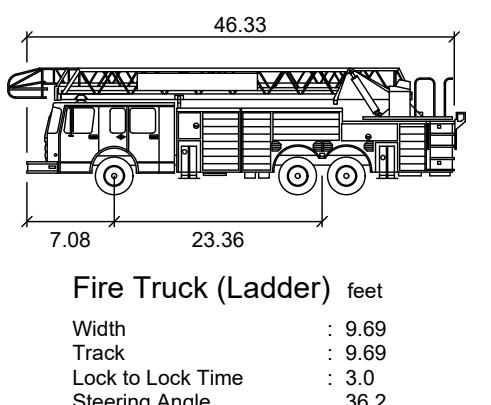
HANDICAPPED ACCESS DETAIL



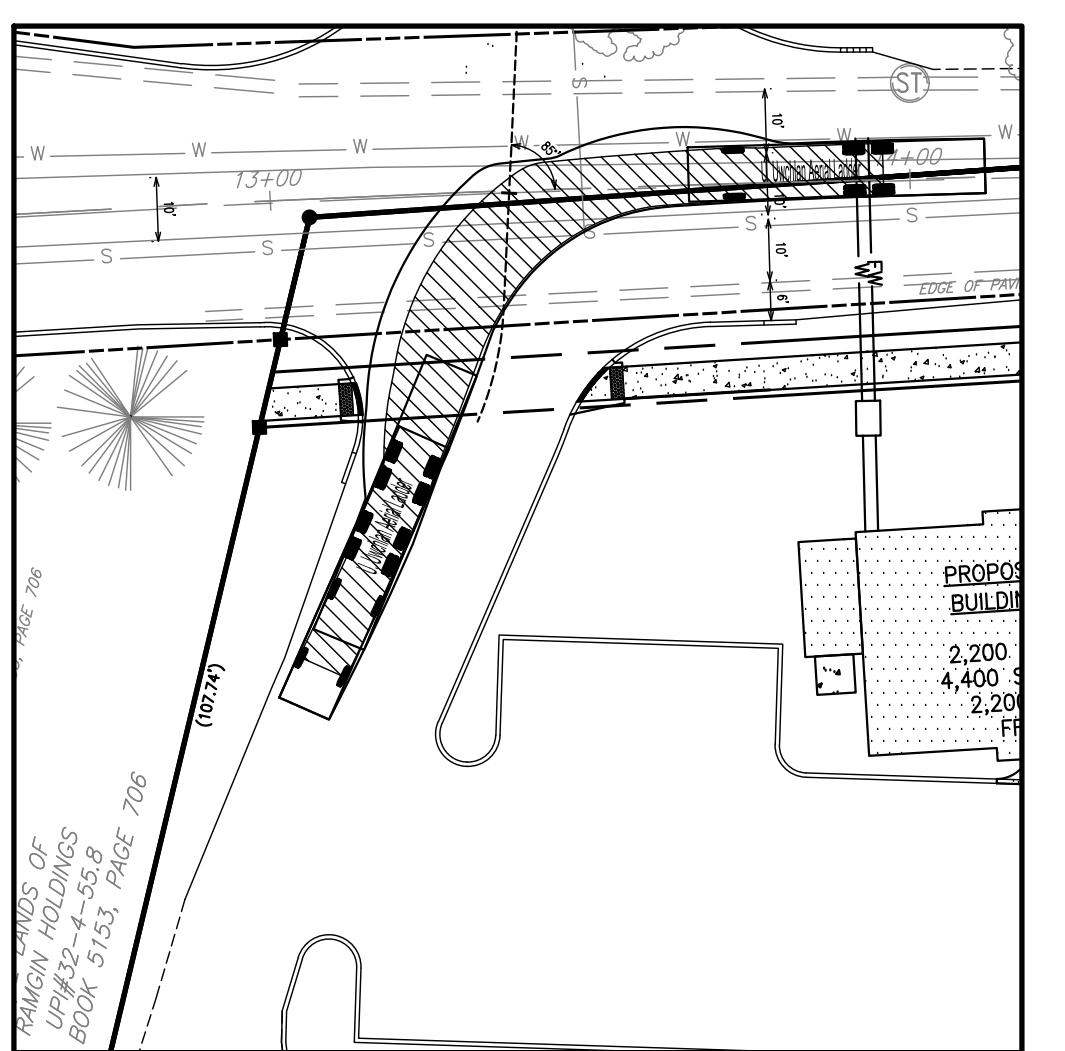
ACT 287 SERIAL NUMBER: 20092502101
D. L. Howell & Associates, Inc. does not guarantee the accuracy of the locations for existing subsurface utility lines, structures, etc. shown on the plans, nor does D. L. Howell & Associates, Inc. guarantee that all subsurface utility lines, structures, etc. are shown.

Contractor shall verify the location and elevations of all subsurface utility lines, structures, etc. before the start of work, by calling the Pennsylvania One Call System at 1-800-242-1776.

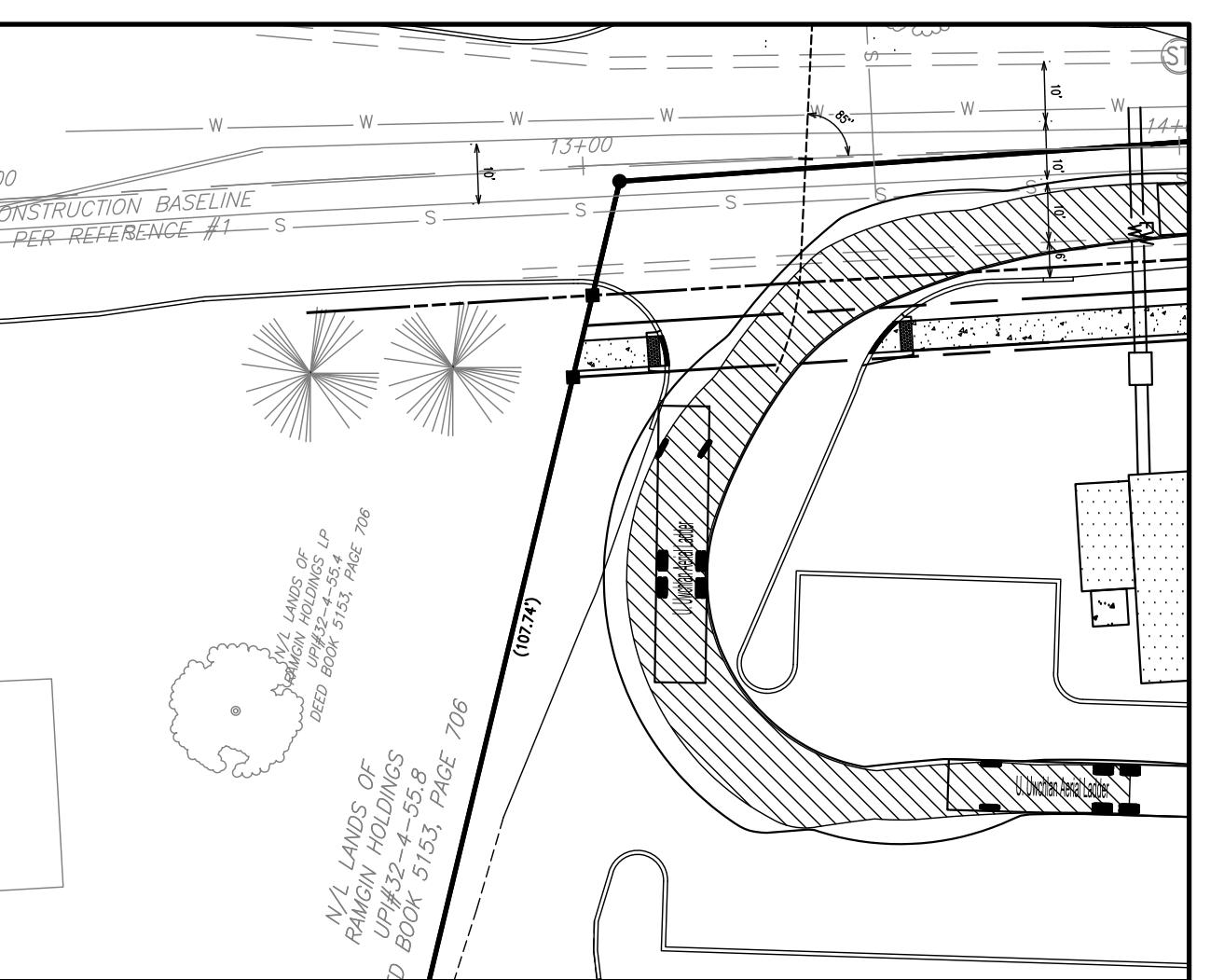
UTILITIES NOTIFIED
BUCKEYE PIPELINE COMPANY
COMCAST CABLE COMMUNICATIONS, INC.
PECO ENERGY
VERIZON PENNSYLVANIA, INC.
UPPER UWCHLAN TOWNSHIP
UPPER UWCHLAN MUNICIPAL AUTHORITY



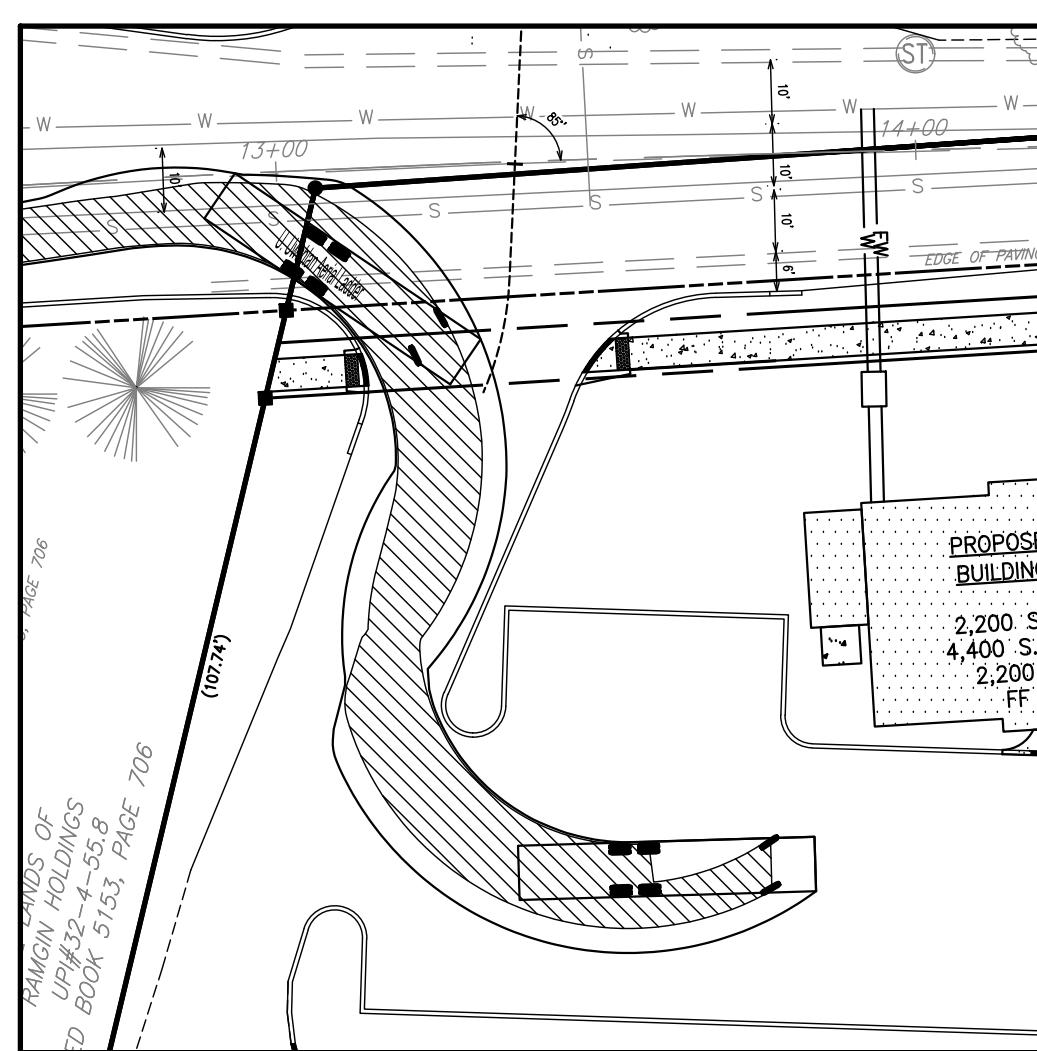
Fire Truck (Ladder) feet
Width : 9.69
Track : 9.69
Lock to Lock Time : 3.0
Steering Angle : 36.2



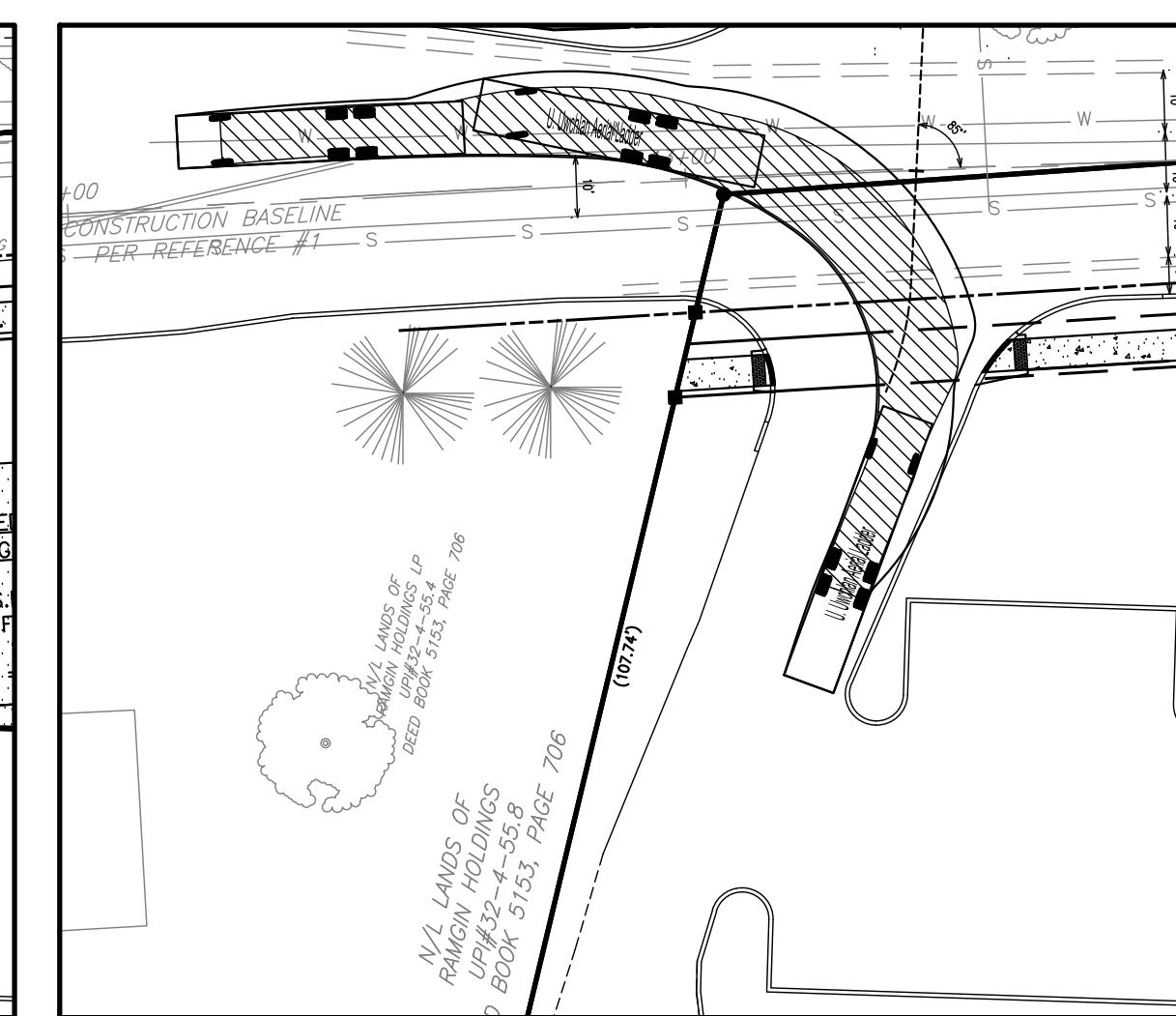
ENTERING SITE FROM EAST



ENTERING SITE FROM WEST

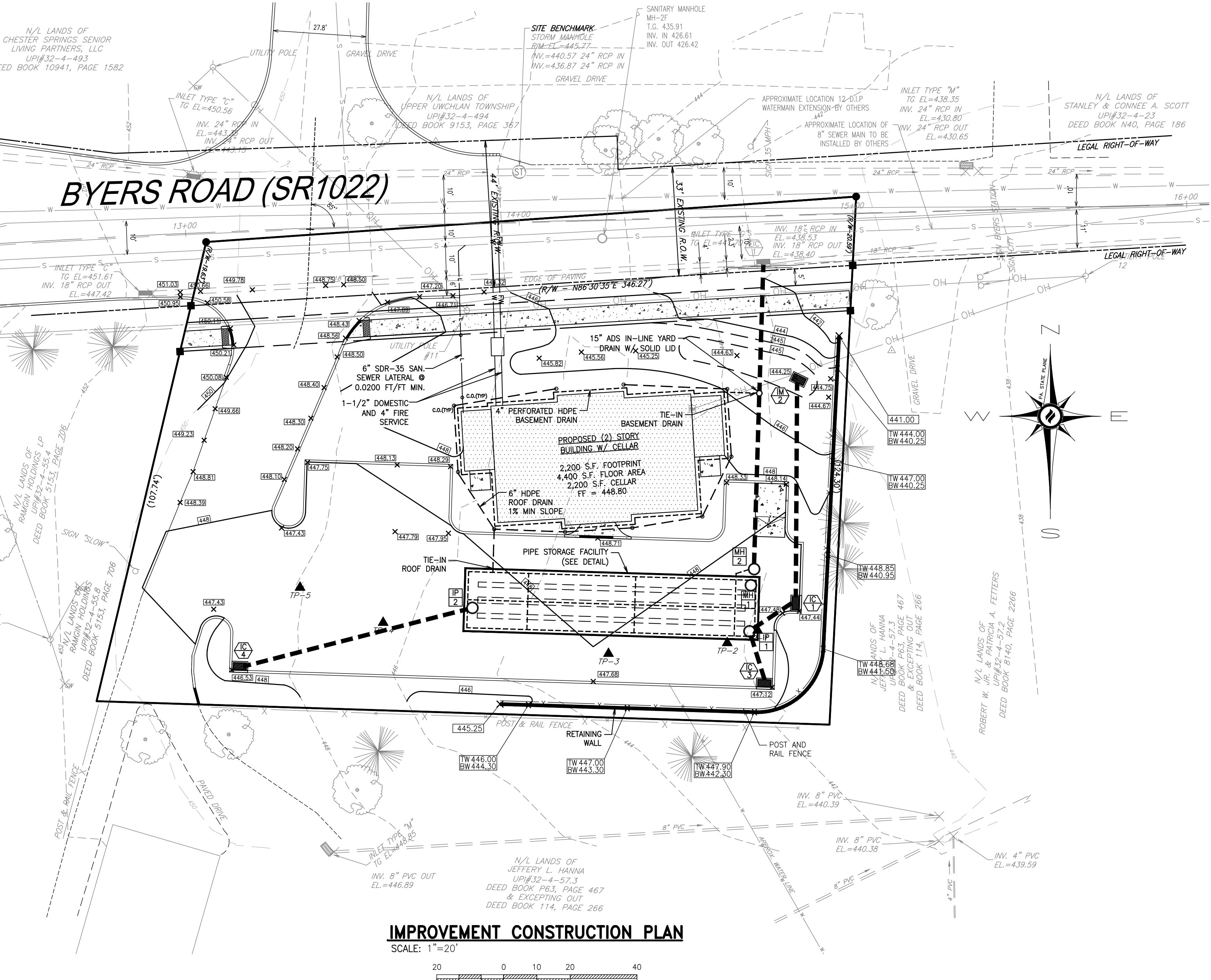


EXITING SITE HEADED EAST



EXITING SITE HEADED WEST

BYERS ROAD (SR1022)



IMPROVEMENT CONSTRUCTION PLAN

SCALE: 1"=20'



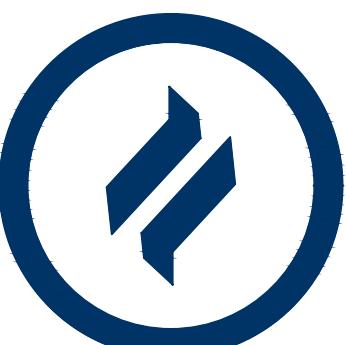
GRAPHIC SCALE
1 inch = 20 feet

TRUCK TURNING PLANS

SCALE: 1"=30'



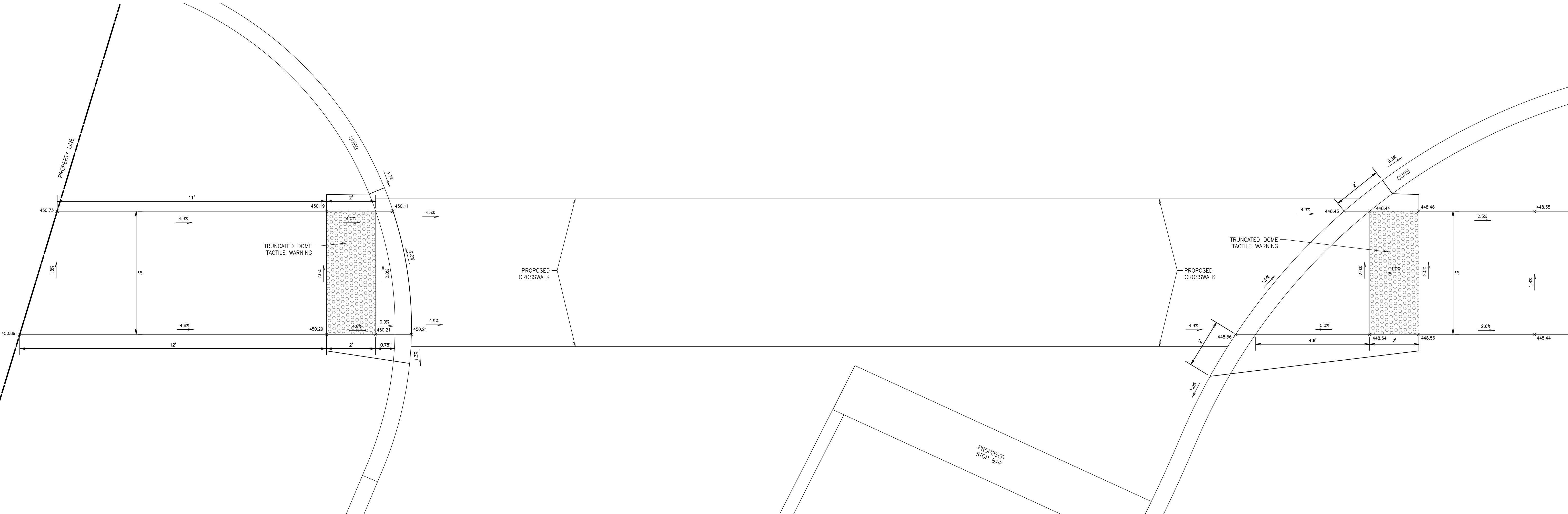
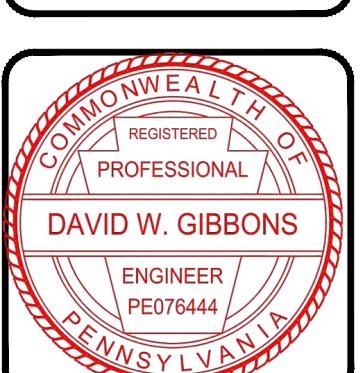
GRAPHIC SCALE
1 inch = 20 feet



DLHowell

Civil Engineering
Land Planning
Environmental
www.DLHowell.com

1250 Wrights Lane
West Chester, PA 19380
Phone: (610) 918-9002
Fax: (610) 918-9003

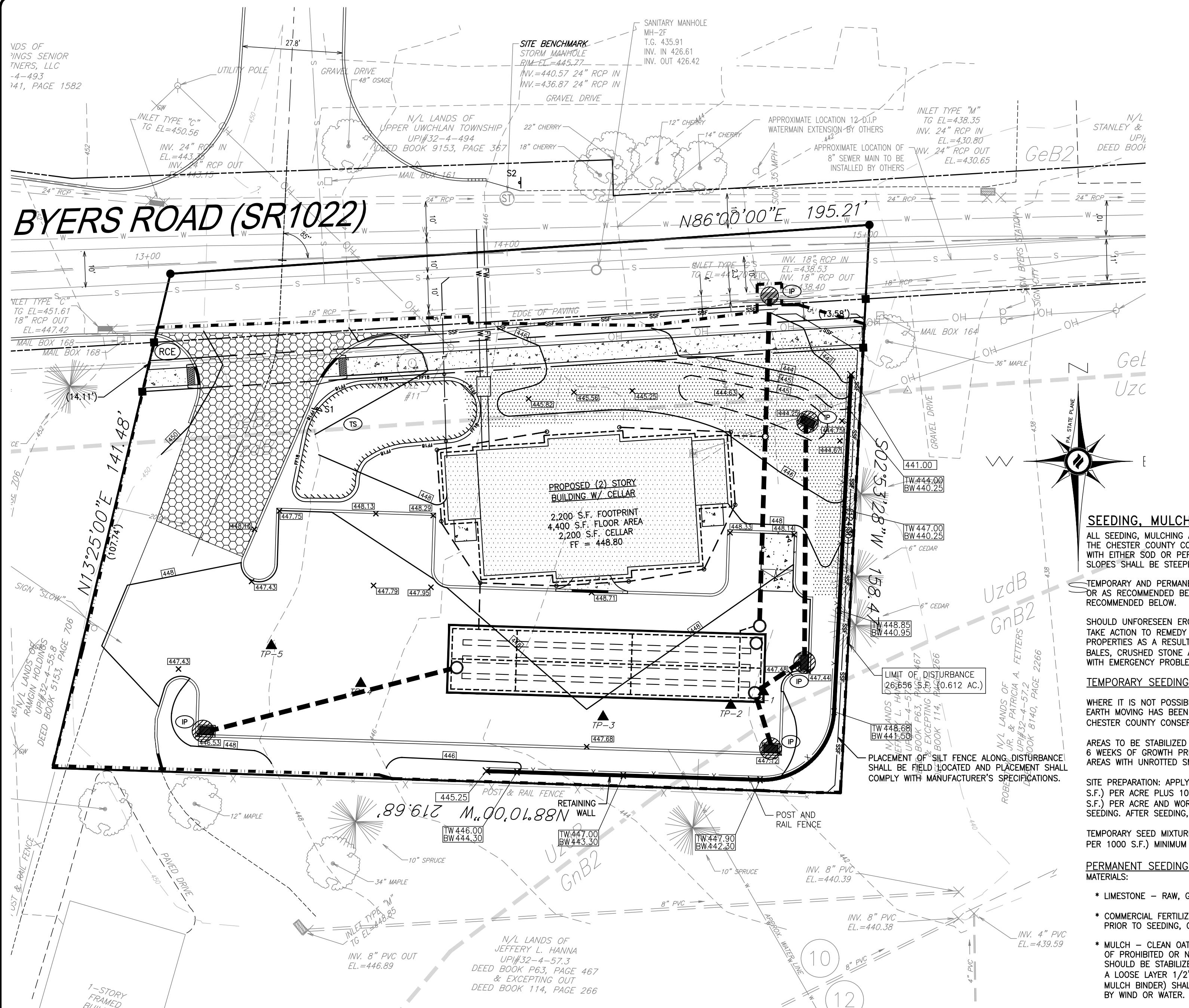


SIDEWALK ADA PLAN

SCALE: 1" = 2'

**PRELIMINARY/FINAL
SIDEWALK ADA PLAN**

DATE:	12/21/20
SCALE:	1"=2'
DRAWN BY:	AM
CHECKED BY:	DWG
PROJECT NO.:	2146
CAD FILE:	03 IMPROVEMENT CONSTRUCTION PLAN.dwg
PLOTTED:	08/04/23
DRAWING NO.:	C03.02
SHEET	04 OF 13



CONSERVATION PLAN

SCALE: 1"=20'

GRAPHIC SCALE
1 inch = 20 feet

CALL BEFORE YOU DIG!

PENNSYLVANIA LAW REQUIRES
3 WORKING DAYS NOTICE FOR
CONSTRUCTION PHASE AND 10 WORKING
DAYS IN DESIGN STAGE—STOP CALL

Pennsylvania One Call System, Inc.
1-800-242-1776

ONE CALL NOTE

NO SCALE

LEGEND

—	—	LIMIT OF DISTURBANCE
FF18	—	18" SILT FENCE
SSF	—	SUPER SILT FENCE
TS	—	TOPSOIL STOCKPILE
IP	—	INLET PROTECTION
RCE	—	STABILIZED ROCK CONSTRUCTION ENTRANCE
—	—	CURLEX BLANKET

—	—	EX. PROPERTY LINE
—	—	PROPOSED PROPERTY LINE
—	—	EX. RIGHT-OF-WAY
—	—	PROPOSED RIGHT-OF-WAY
■	—	EX. MONUMENT
○	—	EX. IRON PIPE
●	—	PROP. IRON PIPE
—	—	EX. EASEMENT
—	—	PROP. EASEMENT
—	—	EX. WETLANDS

LEGEND

—	—	EX. PROPERTY LINE
—	—	PROPOSED PROPERTY LINE
X	—	EX. RIGHT-OF-WAY
—	—	PROPOSED RIGHT-OF-WAY
■	—	EX. MONUMENT
○	—	EX. IRON PIPE
●	—	PROP. IRON PIPE
—	—	EX. EASEMENT
—	—	PROP. EASEMENT
—	—	EX. WETLANDS

LEGEND

—	—	EX. PROPERTY LINE
—	—	PROPOSED PROPERTY LINE
X	—	EX. RIGHT-OF-WAY
—	—	PROPOSED RIGHT-OF-WAY
■	—	EX. MONUMENT
○	—	EX. IRON PIPE
●	—	PROP. IRON PIPE
—	—	EX. EASEMENT
—	—	PROP. EASEMENT
—	—	EX. WETLANDS

LEGEND

—	—	EX. PROPERTY LINE
—	—	PROPOSED PROPERTY LINE
X	—	EX. RIGHT-OF-WAY
—	—	PROPOSED RIGHT-OF-WAY
■	—	EX. MONUMENT
○	—	EX. IRON PIPE
●	—	PROP. IRON PIPE
—	—	EX. EASEMENT
—	—	PROP. EASEMENT
—	—	EX. WETLANDS

LEGEND

—	—	EX. PROPERTY LINE
—	—	PROPOSED PROPERTY LINE
X	—	EX. RIGHT-OF-WAY
—	—	PROPOSED RIGHT-OF-WAY
■	—	EX. MONUMENT
○	—	EX. IRON PIPE
●	—	PROP. IRON PIPE
—	—	EX. EASEMENT
—	—	PROP. EASEMENT
—	—	EX. WETLANDS

LEGEND

—	—	EX. PROPERTY LINE
—	—	PROPOSED PROPERTY LINE
X	—	EX. RIGHT-OF-WAY
—	—	PROPOSED RIGHT-OF-WAY
■	—	EX. MONUMENT
○	—	EX. IRON PIPE
●	—	PROP. IRON PIPE
—	—	EX. EASEMENT
—	—	PROP. EASEMENT
—	—	EX. WETLANDS

LEGEND

—	—	EX. PROPERTY LINE
—	—	PROPOSED PROPERTY LINE
X	—	EX. RIGHT-OF-WAY
—	—	PROPOSED RIGHT-OF-WAY
■	—	EX. MONUMENT
○	—	EX. IRON PIPE
●	—	PROP. IRON PIPE
—	—	EX. EASEMENT
—	—	PROP. EASEMENT
—	—	EX. WETLANDS

LEGEND

—	—	EX. PROPERTY LINE
—	—	PROPOSED PROPERTY LINE
X	—	EX. RIGHT-OF-WAY
—	—	PROPOSED RIGHT-OF-WAY
■	—	EX. MONUMENT
○	—	EX. IRON PIPE
●	—	PROP. IRON PIPE
—	—	EX. EASEMENT
—	—	PROP. EASEMENT
—	—	EX. WETLANDS

LEGEND

—	—	EX. PROPERTY LINE
—	—	PROPOSED PROPERTY LINE
X	—	EX. RIGHT-OF-WAY
—	—	PROPOSED RIGHT-OF-WAY
■	—	EX. MONUMENT
○	—	EX. IRON PIPE
●	—	PROP. IRON PIPE
—	—	EX. EASEMENT
—	—	PROP. EASEMENT
—	—	EX. WETLANDS

LEGEND

—	—	EX. PROPERTY LINE
—	—	PROPOSED PROPERTY LINE
X	—	EX. RIGHT-OF-WAY
—	—	PROPOSED RIGHT-OF-WAY
■	—	EX. MONUMENT
○	—	EX. IRON PIPE
●	—	PROP. IRON PIPE
—	—	EX. EASEMENT
—	—	PROP. EASEMENT
—	—	EX. WETLANDS

LEGEND

—	—	EX. PROPERTY LINE
—	—	PROPOSED PROPERTY LINE
X	—	EX. RIGHT-OF-WAY
—	—	PROPOSED RIGHT-OF-WAY
■	—	EX. MONUMENT
○	—	EX. IRON PIPE
●	—	PROP. IRON PIPE
—	—	EX. EASEMENT
—	—	PROP. EASEMENT
—	—	EX. WETLANDS

LEGEND

—	—	EX. PROPERTY LINE
—	—	PROPOSED PROPERTY LINE
X	—	EX. RIGHT-OF-WAY
—	—	PROPOSED RIGHT-OF-WAY
■	—	EX. MONUMENT
○	—	EX. IRON PIPE
●	—	PROP. IRON PIPE
—	—	EX. EASEMENT
—	—	PROP. EASEMENT
—	—	EX. WETLANDS

LEGEND

—	—	EX. PROPERTY LINE
—		



DLHowell
Civil Engineering
Land Planning
Environmental
www.DLHowell.com

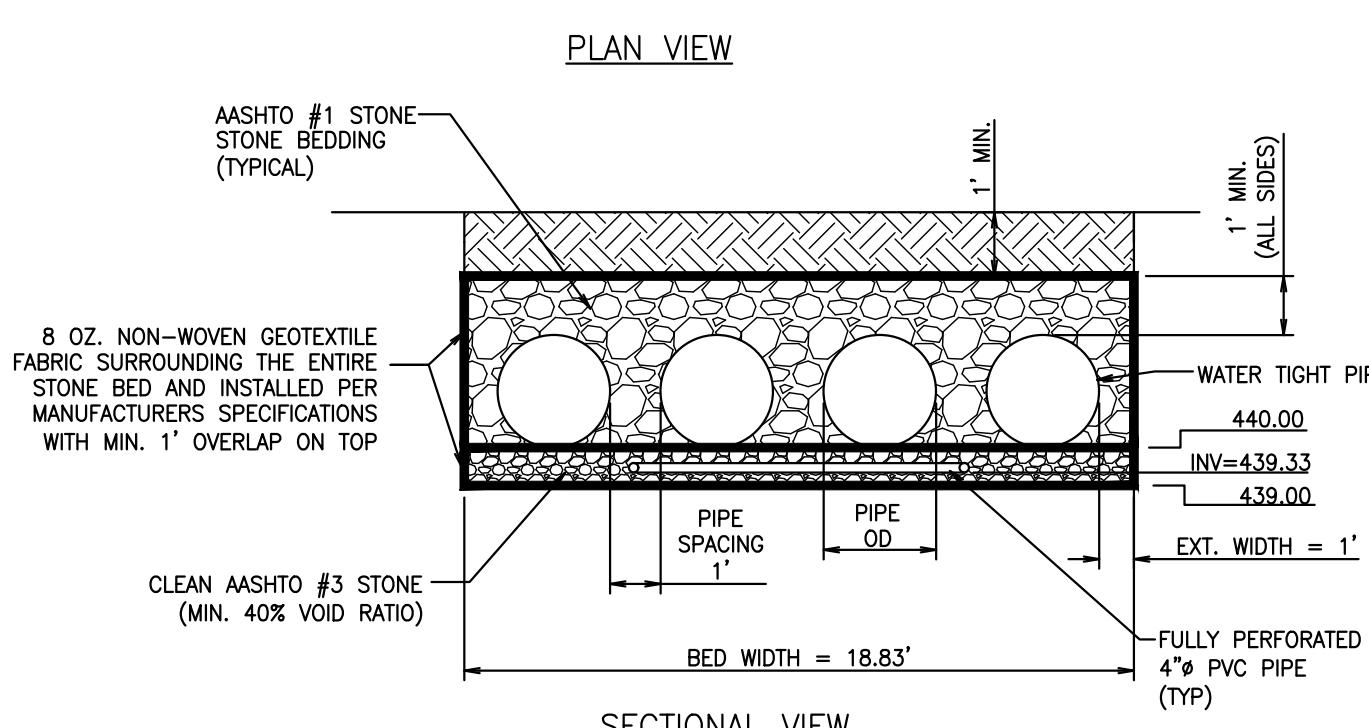
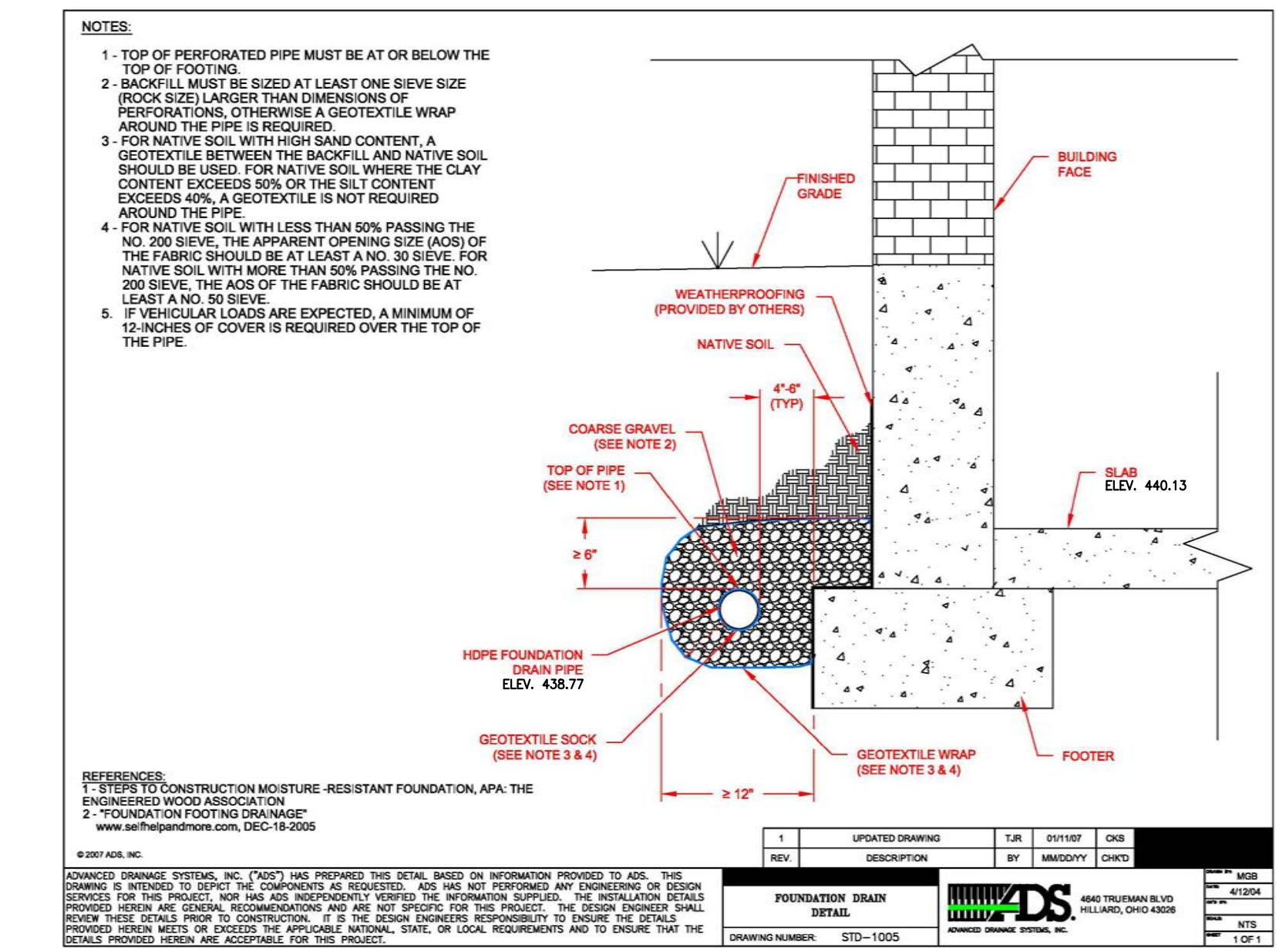
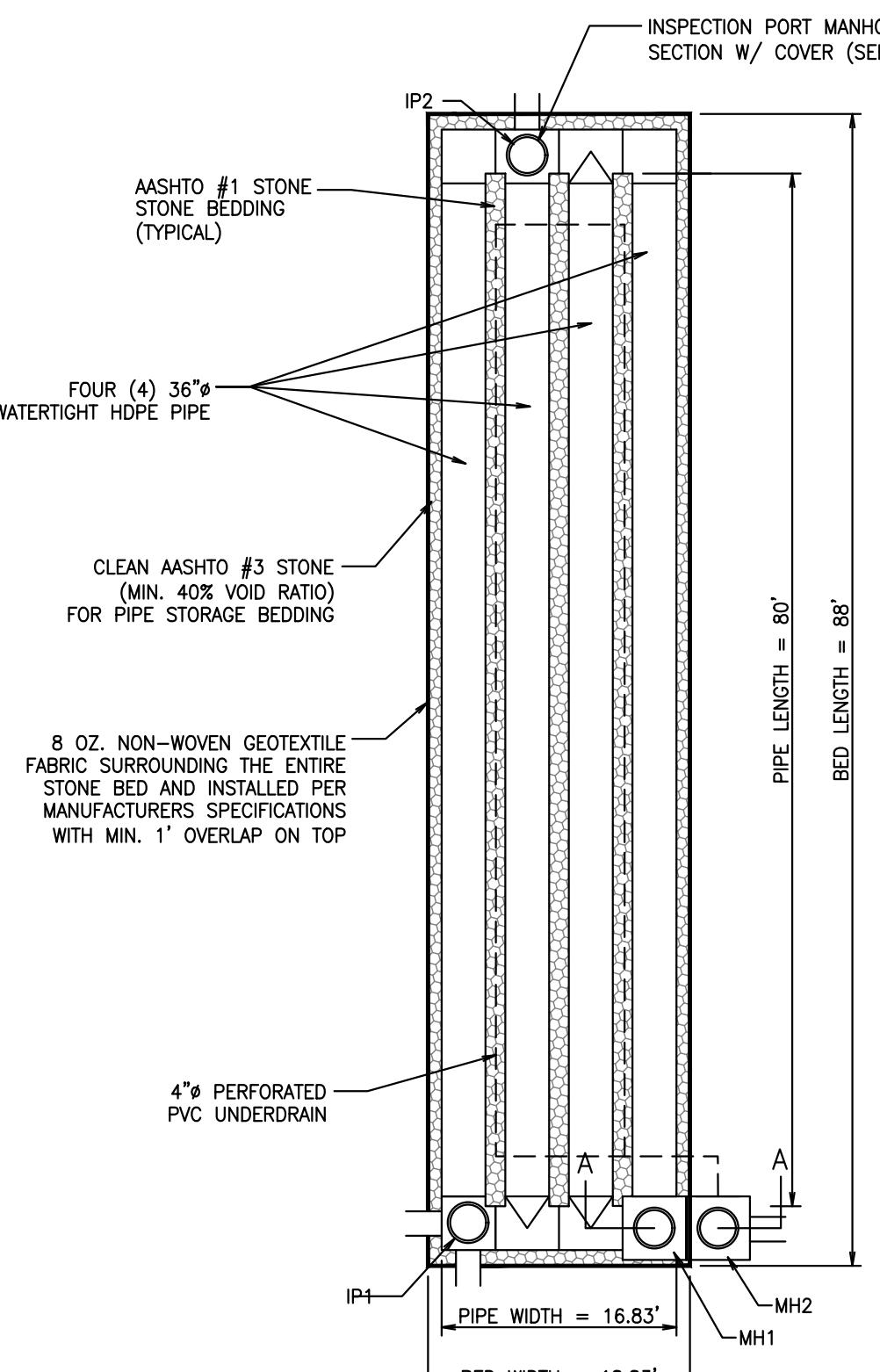
1250 Wrights Lane
West Chester, PA 19380
Phone: (610) 918-9002
Fax: (610) 918-9003



SECTION	REV.	DESCRIPTION	DATE
1	1	PROPOSED DRAWDOWN	08/04/23
2	1	REVIEW LETTERS	08/04/23
3	1	REvised PER TOWNSHIP REVIEW LETTERS	08/04/23
4	1	REvised PER TOWNSHIP REVIEW LETTERS	08/04/23
5	1	REvised PER TOWNSHIP REVIEW LETTERS	08/04/23
6	1	REvised PER TOWNSHIP REVIEW LETTERS	08/04/23
7	1	REvised PER TOWNSHIP REVIEW LETTERS	08/04/23

PRELIMINARY/FINAL	
DETAIL SHEET	
CLIENT:	QBD VENTURES
PROJECT:	BYERS ROAD PROPERTY
LOCATION:	164 BYERS ROAD, UPPER UHCLAN TOWNSHIP, CHESTER COUNTY, PA

DATE:	12/21/20
SCALE:	AS SHOWN
DRAWN BY:	AM
CHECKED BY:	DWG
PROJECT NO.:	2146
CAD FILE:	06 DETAIL SHEET.dwg
PLOTTED:	08/04/23
DRAWING NO.:	C06.01
HEET	07 OF 13

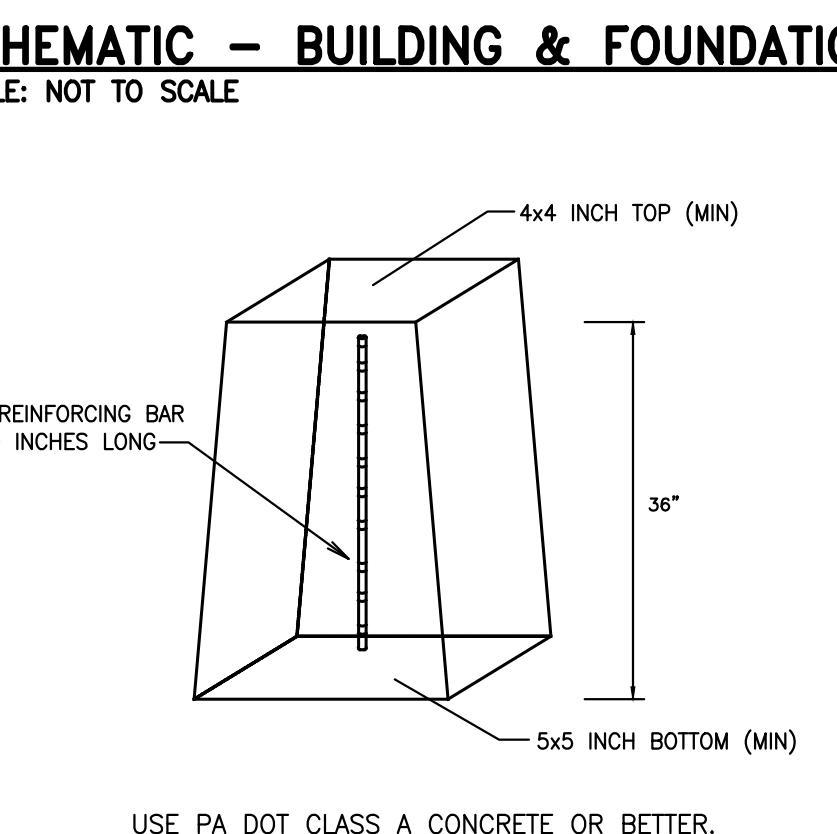


PROPOSED PIPE STORAGE DETAIL

SCALE: NOT TO SCALE

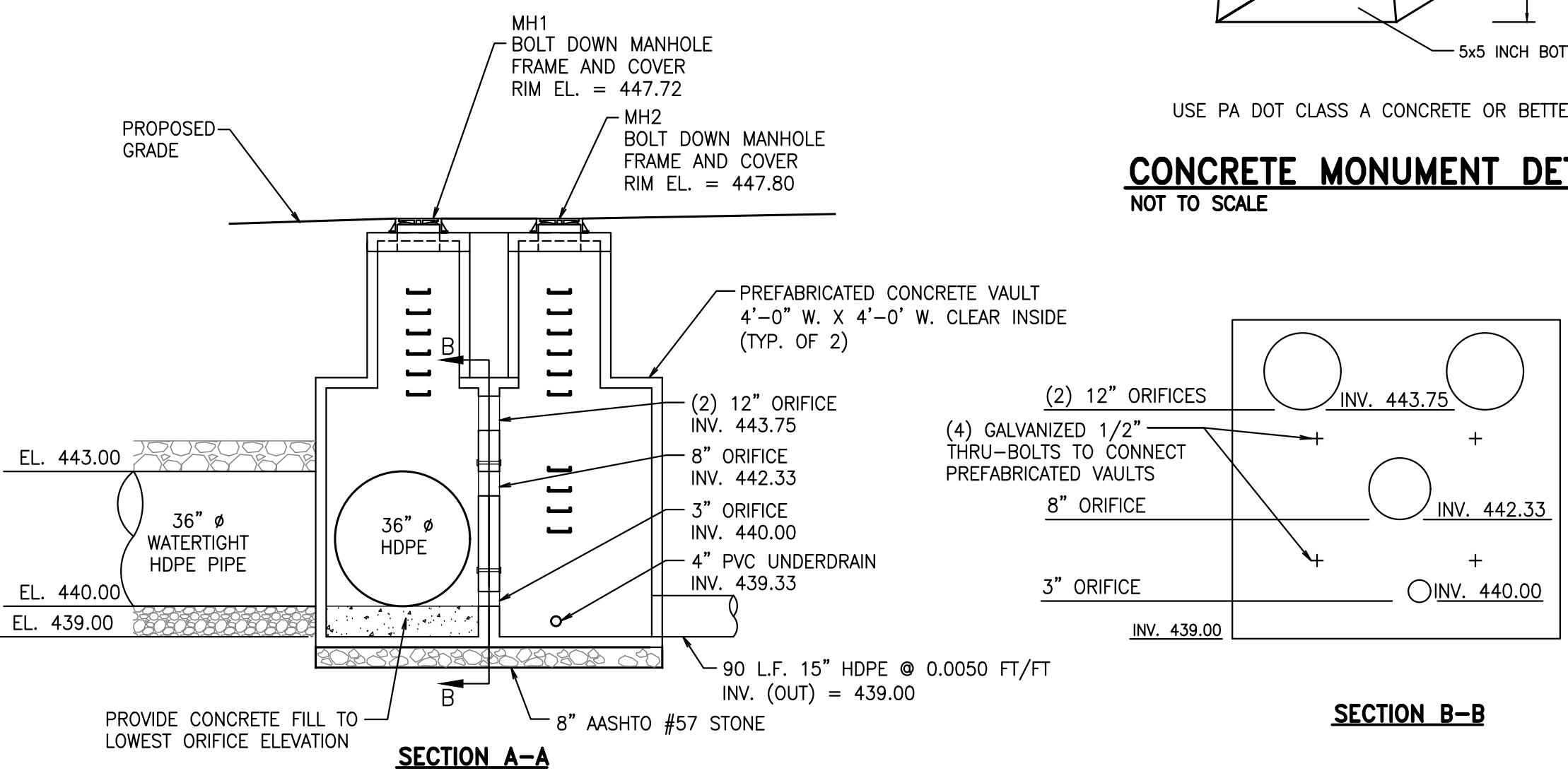
NOTES:

1. PIPE BEDDING MATERIAL SHALL BE PER MANUFACTURER'S SPECIFICATION.
2. HAUNCH MATERIAL SHALL BE PER MANUFACTURER'S SPECIFICATION.
3. GEOTEXTILE FABRIC SHALL CONFORM TO PENNDOT 408 SPECIFICATIONS - SECTION 212 GEOTEXTILES OR LATEST ADDENDA.



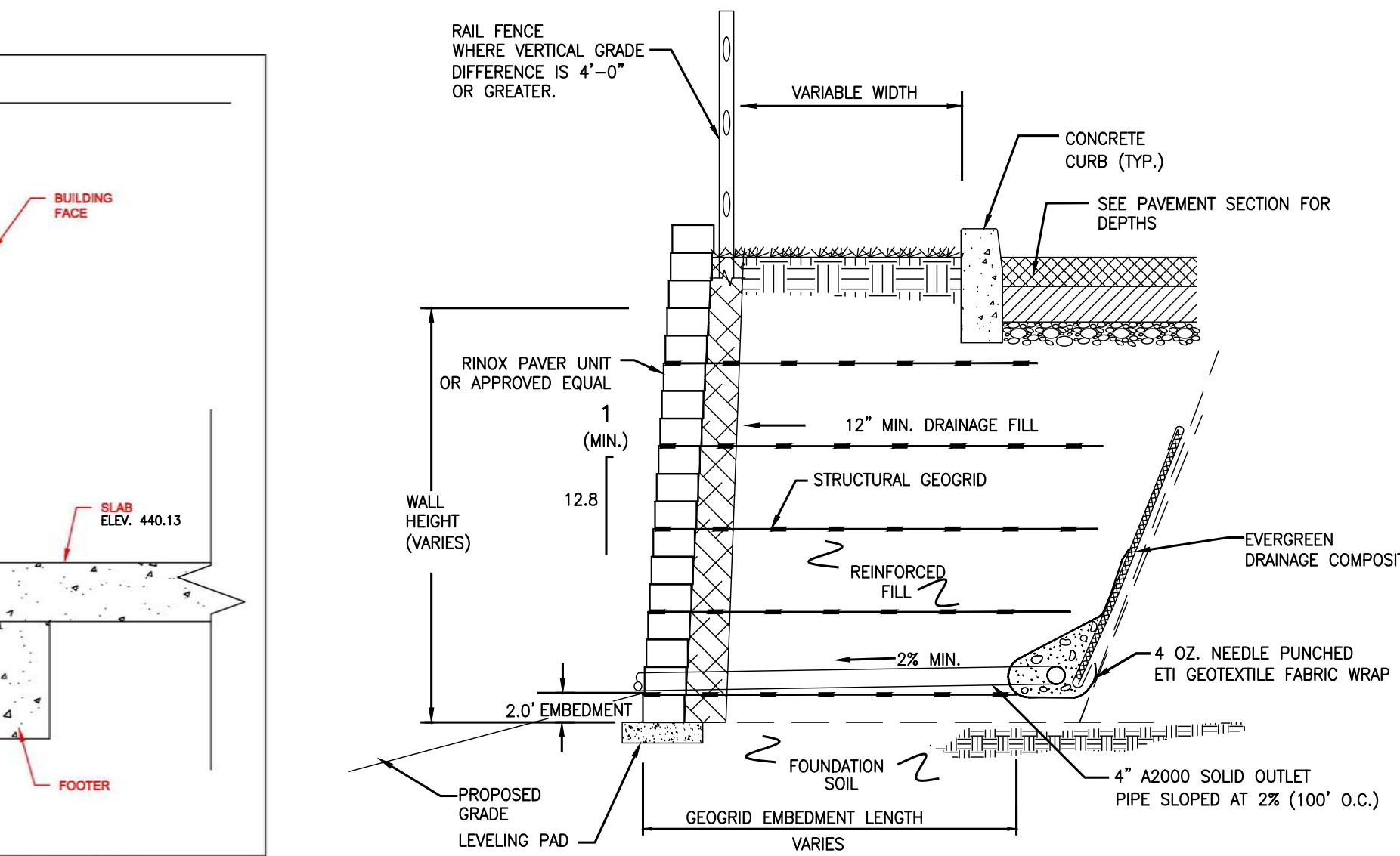
CONCRETE MONUMENT DETAIL

NOT TO SCALE



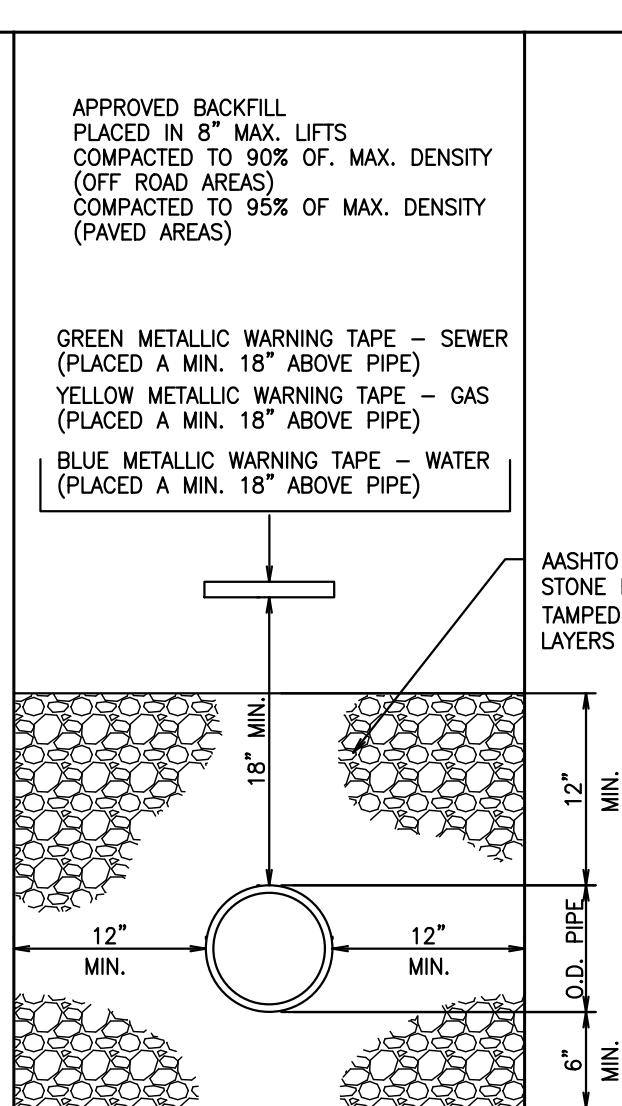
OUTLET STRUCTURE & PIPE STORAGE DETAIL

SCALE: NOT TO SCALE



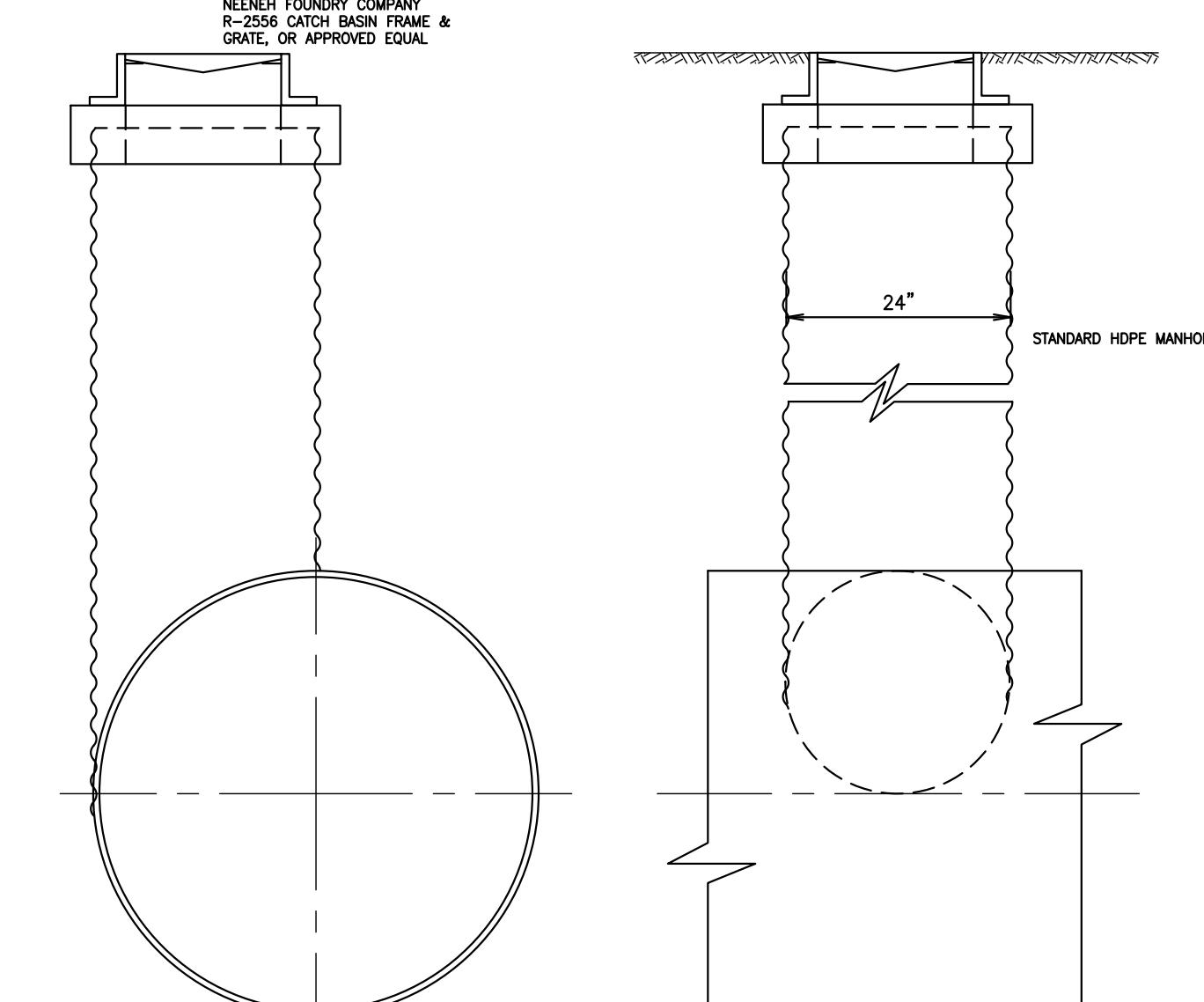
RETAINING WALL DETAIL (TYPICAL)

NO SCALE



TYPICAL UTILITY TRENCH DETAIL

SCALE: NOT TO SCALE

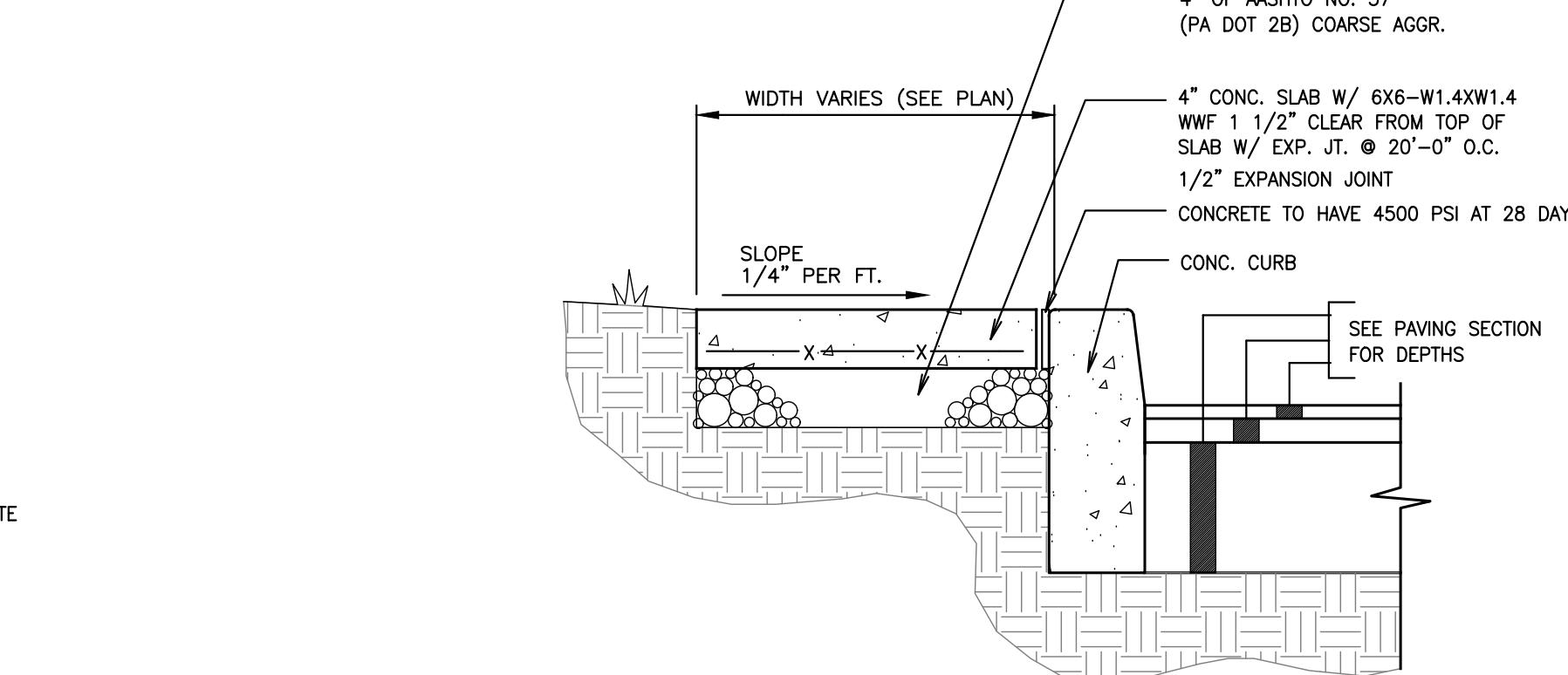


INSPECTION PORT FOR PIPE STORAGE STRUCTURES (TYP.)

SCALE: NOT TO SCALE

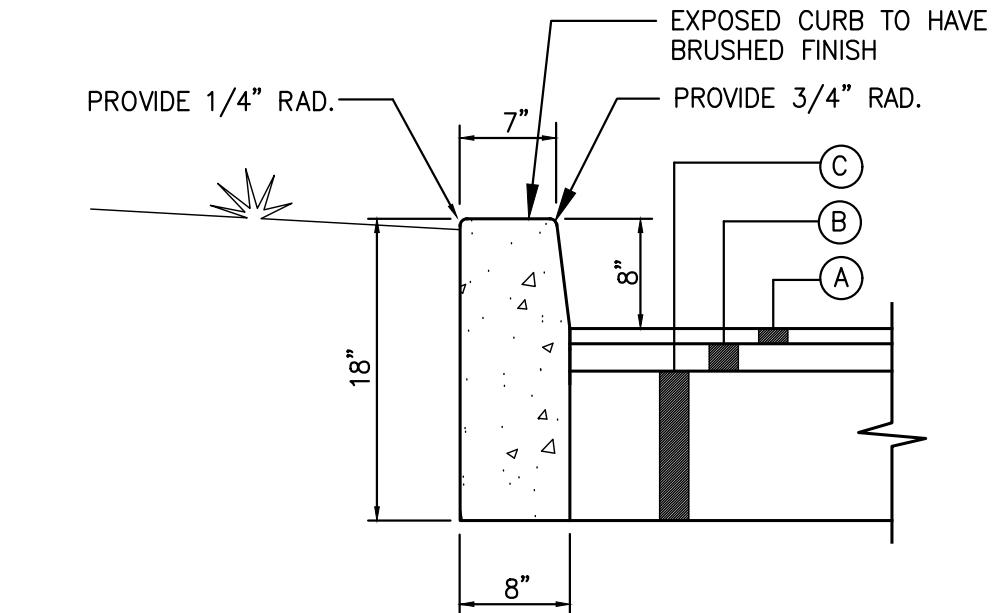
OPERATION AND MAINTENANCE:

1. INDIVIDUAL LATERAL LOCATIONS MAY BE REVISED IN THE FIELD TO SAVE INDIVIDUAL TREES.
2. ANY FILL TO OCCUR DOWNHILL OF THE SEEPAGE BEDS SHALL BE COMPACTED TO A 95% MAX. DENSITY.
3. INFLOW AND OUTFLOW POINTS OF THE STORMWATER SYSTEM SHOULD BE KEPT CLEAR OF LEAVES AND OTHER DEBRIS. ANY LEAVES OR DEBRIS WILL NEGATIVELY IMPACT THE PERFORMANCE OF THESE SYSTEMS. ALL DOWNSPOUTS AND OVERFLOW PIPES SHOULD BE KEPT IN GOOD WORKING ORDER.



TYPICAL SIDEWALK DETAIL

SCALE: NOT TO SCALE



TYPICAL PAVING SECTION

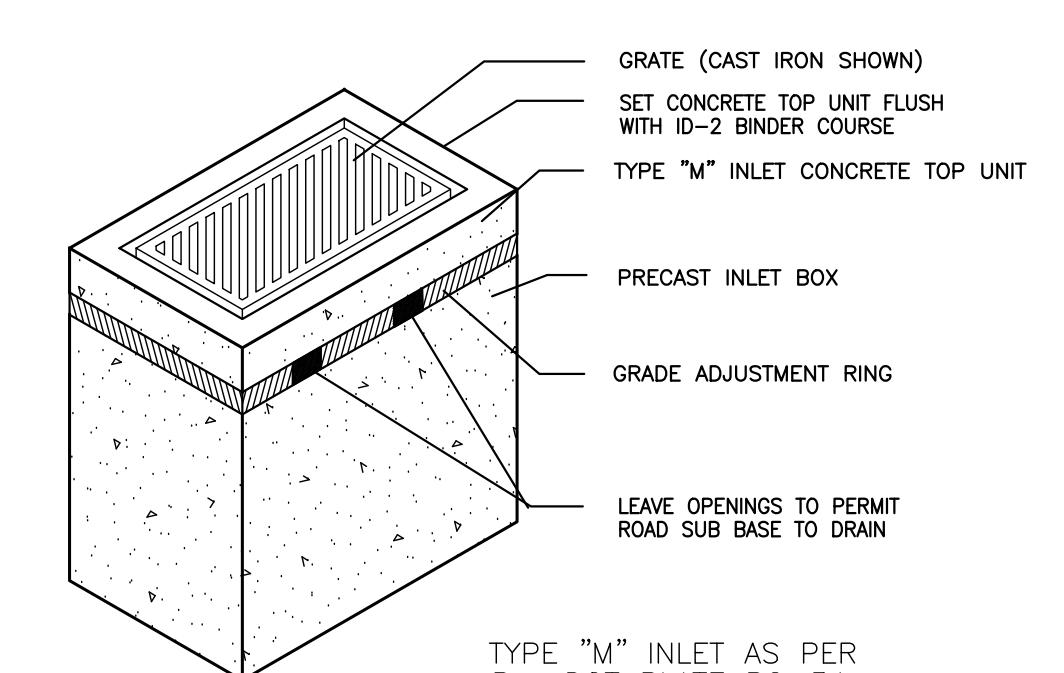
- A. 1-1/2" ID-2 WEARING COURSE
- B. 2 1/2" ID-2 BINDER COURSE
- C. 6" 3A MODIFIED STONE

NOTES:

1. ALL MATERIALS & WORK TO CONFORM TO PennDot FORM 408 SPECIFICATIONS, LATEST EDITION.
2. CONCRETE TO HAVE 3750 P.S.I. AT 28 DAYS.

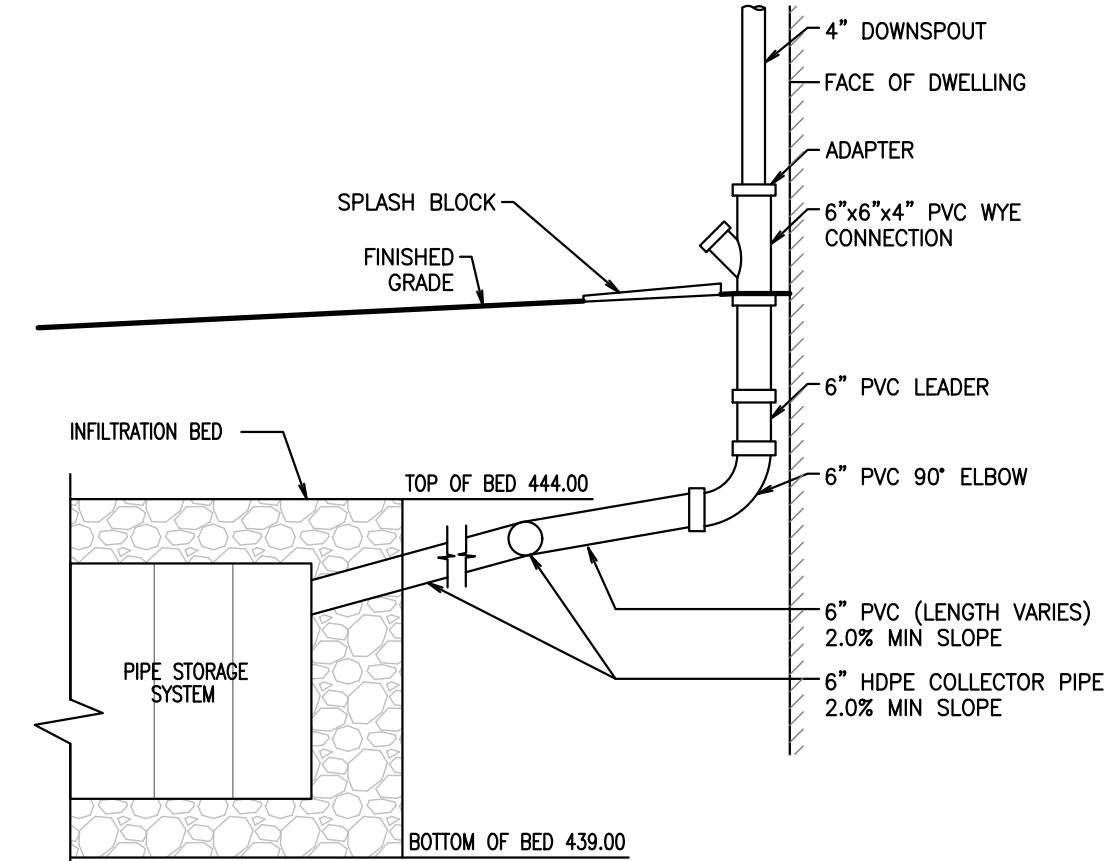
8" CURBING & PAVING SECTION

SCALE: NOT TO SCALE



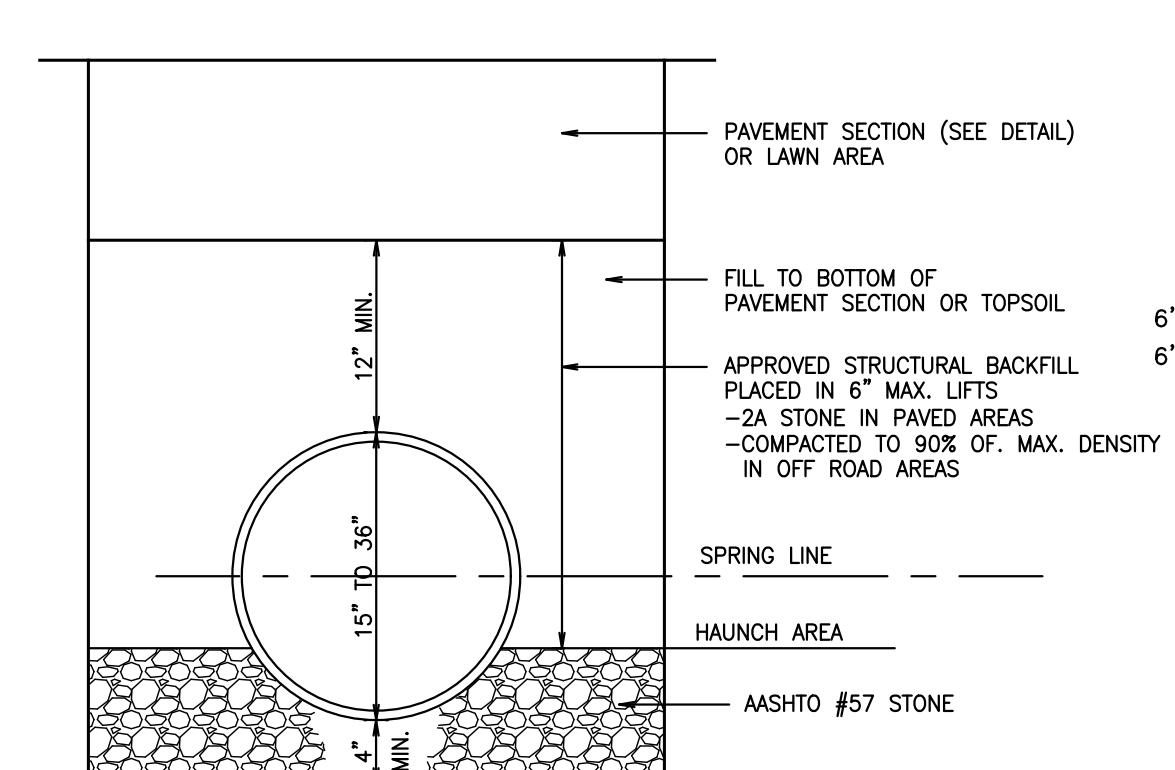
TYPE 'M' INLET

SCALE: NOT TO SCALE



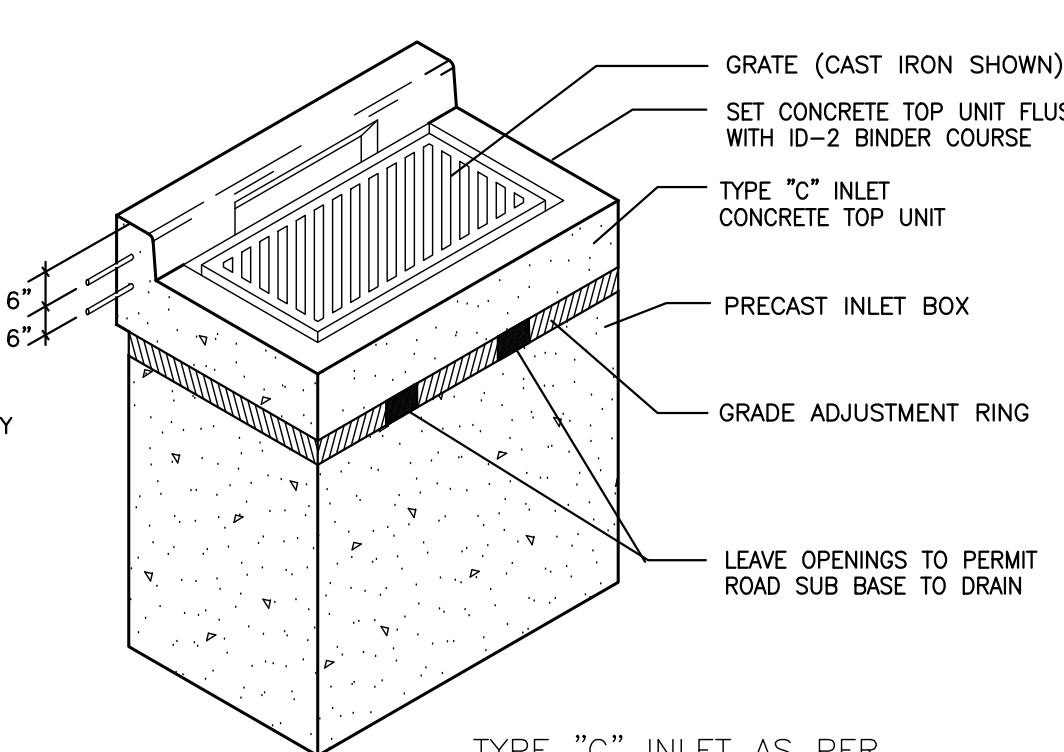
DOWNSPOUT CONNECTION DETAIL

NO SCALE



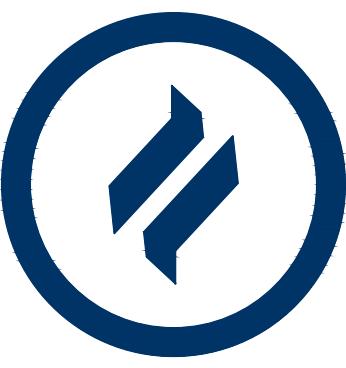
HDPE STORM PIPE TRENCH DETAIL

SCALE: NOT TO SCALE

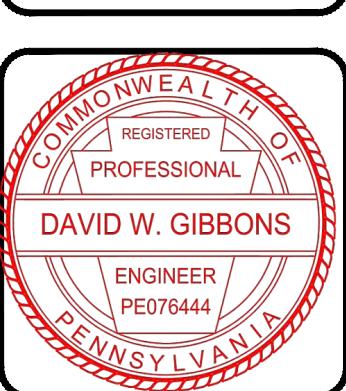


TYPE 'C' INLET

SCALE: NOT TO SCALE



DLHowell

Civil Engineering
Land Planning
Environmental
www.DLHowell.com1250 Wrights Lane
West Chester, PA 19380
Phone: (610) 918-9002
Fax: (610) 918-9003

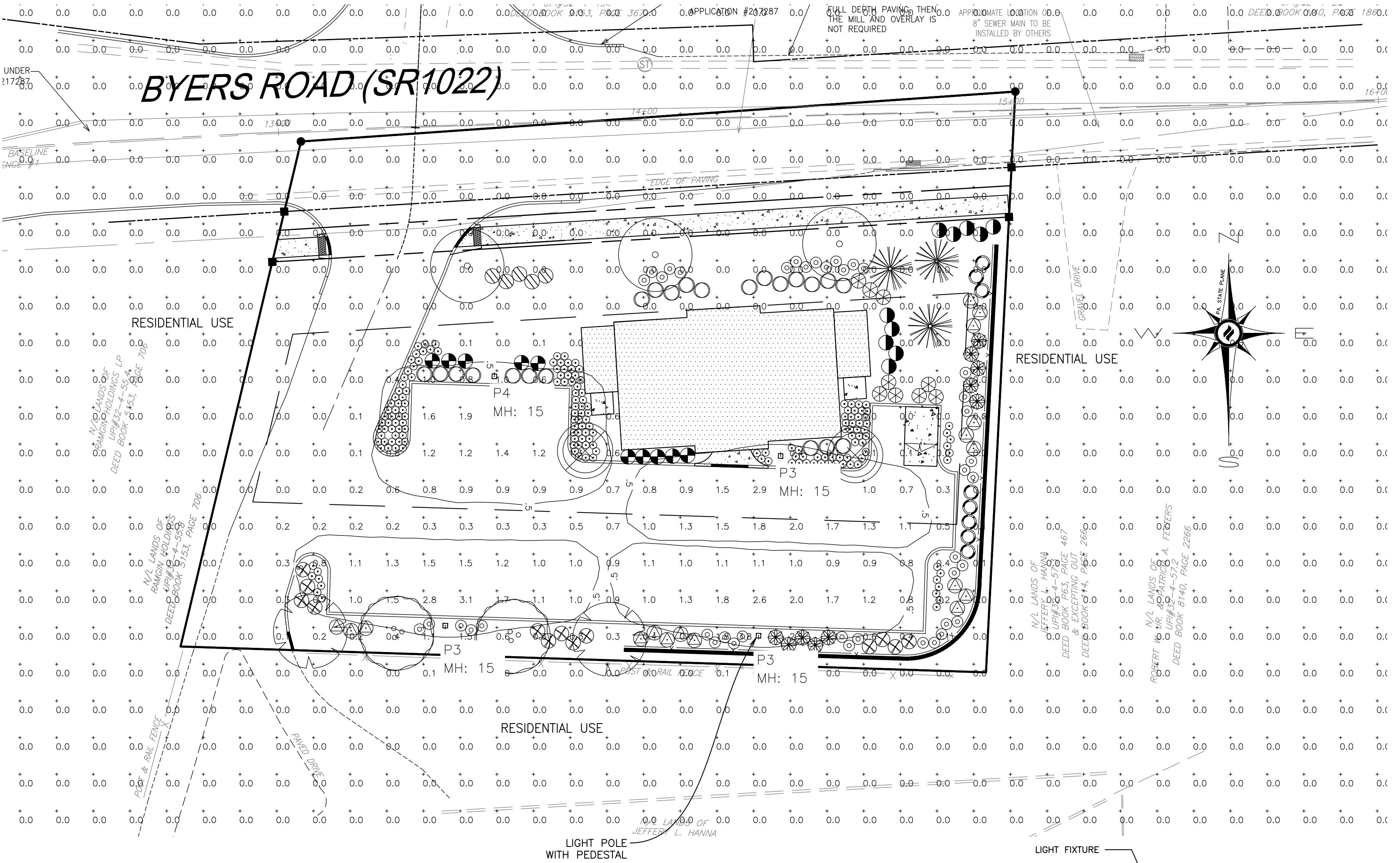
PRELIMINARY/FINAL
LIGHTING PLAN

CLIENT: QBD VENTURES
PROJECT: 164 BYERS ROAD PROPERTY
LOCATION: UPPER UHCLAN TOWNSHIP, CHESTER COUNTY, PA

DATE: 12/21/20
SCALE: 1"-20'
DRAWN BY: AM
CHECKED BY: DWG
PROJECT NO.: 2146
CADD FILE: OS_LIGHTING_PLAN.dwg
PLOTTED: 08/04/23
DRAWING NO.: C08.01
SHEET 10 OF 13

Luminaire Schedule						Lum. Watts	Lum. Lumens	BUG Rating	Mounting Height	Arrangement Watts	Arrangement Lumens
Symbol	Qty	Label	LLF	Description							
■	1	P4	0.900	NLS - NV-1-T4-16L-1-30K8-UNV-XX-XX-HSS	56	3539	B0-U0-G1	15	56	3539	
■	3	P3	0.900	NLS - NV-1-T3-16L-1-30K8-UNV-XX-XX-HSS	56	3522	B0-U0-G1	15	56	3522	

Calculation Summary											
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Grid Z	PtSpcLr	PtSpcTb	
East Vertical Calc	Illuminance	Fc	0.01	0.0	N.A.	N.A.	0 to 10	5	5		
South Vertical Calc	Illuminance	Fc	0.03	0.1	0.0	N.A.	N.A.	0 to 10	5	5	
West Vertical Calc	Illuminance	Fc	0.01	0.0	0.0	N.A.	N.A.	10 to 0	5	5	
Parking Lot	Illuminance	Fc	1.21	3.7	0.2	6.05	18.50				



LEGEND

EX. PROPERTY LINE	EX. PROPERTY LINE
PROP. PROPERTY LINE	PROPOSED CONTOUR
EX. RIGHT-OF-WAY	X 123.00 EXISTING SPOT ELEV.
PROP. RIGHT-OF-WAY	X 123.00 GEB2
PROP. MONUMENT	
EX. IRON PIPE	
PROP. IRON PIPE	
EX. EASEMENT	
PROP. EASEMENT	
EX. WETLANDS	

EXISTING

PROPOSED

NEW

SPOT

ELEV.

TO BE REMOVED

TO BE ADDED

TO BE ADDED

EXISTING

PROPOSED

NEW

SPOT

ELEV.

TO BE REMOVED

TO BE ADDED

TO BE ADDED

EXISTING

PROPOSED

NEW

SPOT

ELEV.

TO BE REMOVED

TO BE ADDED

TO BE ADDED

EXISTING

PROPOSED

NEW

SPOT

ELEV.

TO BE REMOVED

TO BE ADDED

TO BE ADDED

EXISTING

PROPOSED

NEW

SPOT

ELEV.

TO BE REMOVED

TO BE ADDED

TO BE ADDED

EXISTING

PROPOSED

NEW

SPOT

ELEV.

TO BE REMOVED

TO BE ADDED

TO BE ADDED

EXISTING

PROPOSED

NEW

SPOT

ELEV.

TO BE REMOVED

TO BE ADDED

TO BE ADDED

EXISTING

PROPOSED

NEW

SPOT

ELEV.

TO BE REMOVED

TO BE ADDED

TO BE ADDED

EXISTING

PROPOSED

NEW

SPOT

ELEV.

TO BE REMOVED

TO BE ADDED

TO BE ADDED

EXISTING

PROPOSED

NEW

SPOT

ELEV.

TO BE REMOVED

TO BE ADDED

TO BE ADDED

EXISTING

PROPOSED

NEW

SPOT

ELEV.

TO BE REMOVED

TO BE ADDED

TO BE ADDED

EXISTING

PROPOSED

NEW

SPOT

ELEV.

TO BE REMOVED

TO BE ADDED

TO BE ADDED

EXISTING

PROPOSED

NEW

SPOT

ELEV.

TO BE REMOVED

TO BE ADDED

TO BE ADDED

EXISTING

PROPOSED

NEW

SPOT

ELEV.

TO BE REMOVED

TO BE ADDED

TO BE ADDED

EXISTING

PROPOSED

NEW

SPOT

ELEV.

TO BE REMOVED

TO BE ADDED

TO BE ADDED

EXISTING

PROPOSED

NEW

SPOT

ELEV.

TO BE REMOVED

TO BE ADDED

TO BE ADDED

EXISTING

PROPOSED

NEW

SPOT

ELEV.

TO BE REMOVED

TO BE ADDED

TO BE ADDED

EXISTING

PROPOSED

NEW

SPOT

ELEV.

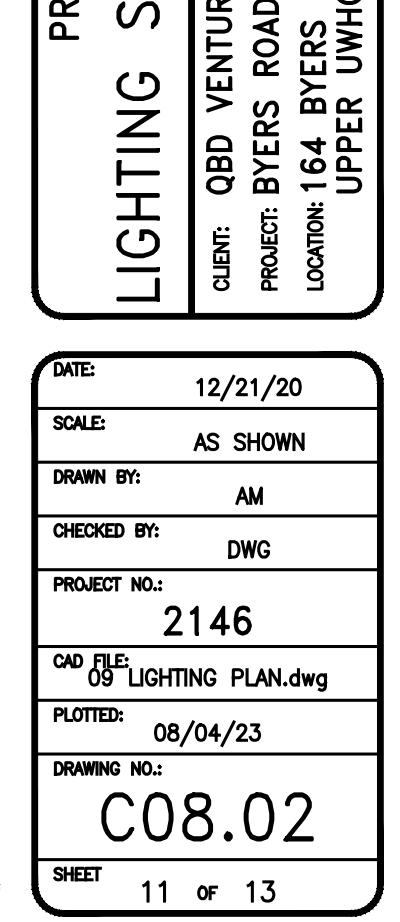
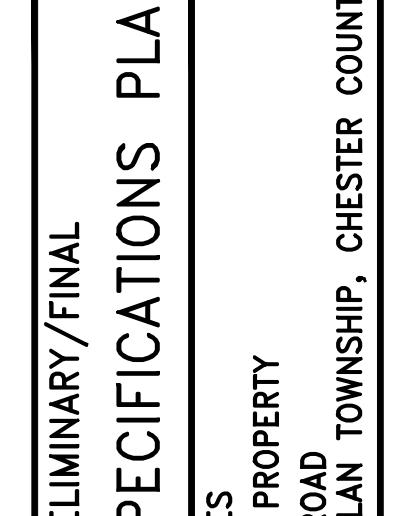
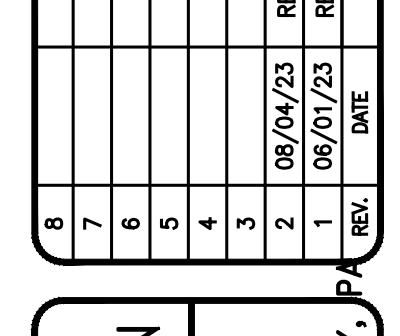
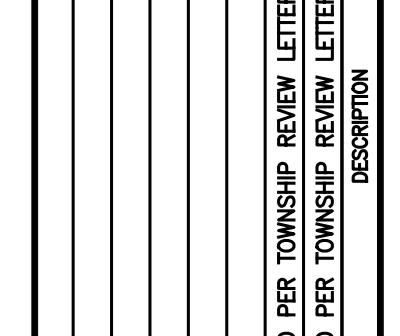
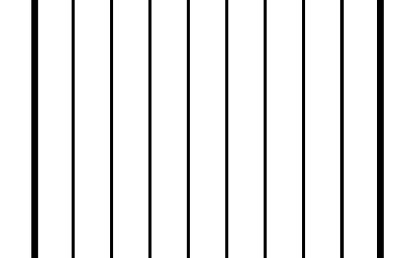
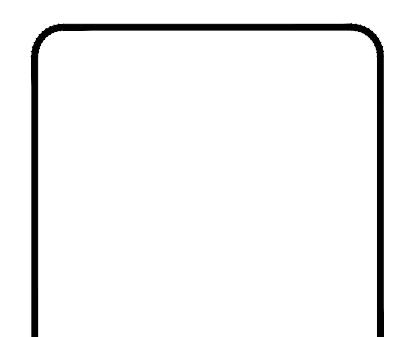
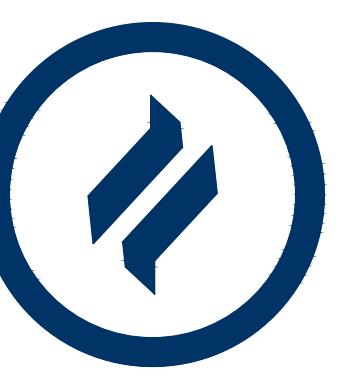
TO BE REMOVED

TO BE ADDED

TO BE ADDED

EXISTING

PROPOSED



Submitted by Penn Lighting Associates
Penn Lighting Job Name: Byers Road Property - Precon Catalog Number: NV-1-T4-16L-1-30K8-UNV-XX-XX-HSS Notes Type: P4

NV-1
AREA, SITE & ROADWAY

PRODUCT SPECIFICATIONS

ELECTRICAL
• 120-277V AC Power
• 0-10V dimming driver
• Dimming range: 10% to 100%
• Reduces energy consumption and cuts up to 65%
• Allows for dimming and scheduling the least number of poles and fixtures per project
• Includes 5 dimming cycles, D-10V dimming with motion sensing, re-programmable in the field
• Grade 2 Clear Anodized Optic Plate® standard

CONSTRUCTION
• Die Cast Aluminum
• 304 Stainless Steel
• Corrosion resistant external hardware
• Die Cast Aluminum housing with a 7.55 seal for electronics compartment
• Die Cast Aluminum Pole mounting silicone Micro Optics
• Two piece silicone Micro Optic system ensures IP67 level seal around each PCB
• Grade 2 Clear Anodized Optic Plate® standard

FINISH
• NLS standard high-quality finishes prevent corrosion, protects against extreme environmental conditions

WARRANTY
5-year limited warranty for drivers and LEDs

LED WATTAGE CHART

16L	32L	48L	64L
350 Lumens	700 Lumens	1050 Lumens	1400 Lumens
350 Lumens	700 Lumens	1050 Lumens	1400 Lumens
350 Lumens	700 Lumens	1050 Lumens	1400 Lumens

Project Name: Type:

Options

Cat#	Light Dist.	# of LEDs	Millamps	Kelvin	Volts	Mounting	Color	Options
16L	Type 2 (16L)	16L	200	2700K (25)	120-277V	Architectural Pole (ASA)	White	• Built-in Optics (B5) - Offers a practical and durable alternative for larger pole applications. Includes a 100% dimming driver, motion sensor, and a 7.55 seal for optics.
32L	Type 2 (32L)	32L	400	3000K (25)	120-277V	Architectural Pole (ASA)	White	• OPTIC PLATE PAINTED TO MATCH FIXTURE FINISH (OPP) - Optic plate is clear anodized as standard. The optic plate is designed for permanent fixture finish.
48L	Type 2 (48L)	48L	560	3000K (25)	120-277V	Architectural Pole (ASA)	White	• GLICK MOUNT BRACKET (GMB) - Optional Cast Aluminum Bracket designed for quick mounting in a Direct Square or Round Pole. Cast mount is a single piece and is designed for easy assembly.
64L	Type 2 (64L)	64L	720	3000K (25)	120-277V	Architectural Pole (ASA)	White	• RETROFIT MOUNT BRACKET - Optional Cast Aluminum Bracket designed for quick mounting in a Direct Square or Round Pole. Cast mount is a single piece and is designed for easy assembly. Diffuser is adjustable from 24° to 60°.
16L	Type 2 (16L)	16L	200	3000K (25)	120-277V	Die Cast Pole (WHT)	White	• ROUND POLE ADAPTER (RPA) - When using round poles, specify Round Pole Adapter. The optic plate is designed for 4" round poles and R90 when installing on 6" round poles.
32L	Type 2 (32L)	32L	400	3000K (25)	120-277V	Die Cast Pole (WHT)	White	• ROTATE OPTICS (RO) - Rotated optics are designed for permanent fixture finish.
48L	Type 2 (48L)	48L	560	3000K (25)	120-277V	Die Cast Pole (WHT)	White	• SHOT-PEENED (SP) - Shot-peened optics are designed for permanent fixture finish.
64L	Type 2 (64L)	64L	720	3000K (25)	120-277V	Die Cast Pole (WHT)	White	• TURNOFF MOUNT (TM) - Turnoff Mount is a single piece designed for quick mounting in a Direct Square or Round Pole. Cast mount is a single piece and is designed for easy assembly.
16L	Type 2 (16L)	16L	200	3000K (25)	120-277V	Knob Mount (BLU)	Blue	• TURNOFF MOUNT (TM) - Turnoff Mount is a single piece designed for quick mounting in a Direct Square or Round Pole. Cast mount is a single piece and is designed for easy assembly.
32L	Type 2 (32L)	32L	400	3000K (25)	120-277V	Knob Mount (BLU)	Blue	• VARIOUS MOUNTS - Various mounting options are available.
48L	Type 2 (48L)	48L	560	3000K (25)	120-277V	Knob Mount (BLU)	Blue	• VARIOUS MOUNTS - Various mounting options are available.
64L	Type 2 (64L)	64L	720	3000K (25)	120-277V	Knob Mount (BLU)	Blue	• VARIOUS MOUNTS - Various mounting options are available.
16L	Type 2 (16L)	16L	200	3000K (25)	120-277V	Turnoff Mount (BLU)	Blue	• VARIOUS MOUNTS - Various mounting options are available.
32L	Type 2 (32L)	32L	400	3000K (25)	120-277V	Turnoff Mount (BLU)	Blue	• VARIOUS MOUNTS - Various mounting options are available.
48L	Type 2 (48L)	48L	560	3000K (25)	120-277V	Turnoff Mount (BLU)	Blue	• VARIOUS MOUNTS - Various mounting options are available.
64L	Type 2 (64L)	64L	720	3000K (25)	120-277V	Turnoff Mount (BLU)	Blue	• VARIOUS MOUNTS - Various mounting options are available.
16L	Type 2 (16L)	16L	200	3000K (25)	120-277V	Smooth Shock (BLU)	Blue	• VARIOUS MOUNTS - Various mounting options are available.
32L	Type 2 (32L)	32L	400	3000K (25)	120-277V	Smooth Shock (BLU)	Blue	• VARIOUS MOUNTS - Various mounting options are available.
48L	Type 2 (48L)	48L	560	3000K (25)	120-277V	Smooth Shock (BLU)	Blue	• VARIOUS MOUNTS - Various mounting options are available.
64L	Type 2 (64L)	64L	720	3000K (25)	120-277V	Smooth Shock (BLU)	Blue	• VARIOUS MOUNTS - Various mounting options are available.
16L	Type 2 (16L)	16L	200	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
32L	Type 2 (32L)	32L	400	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
48L	Type 2 (48L)	48L	560	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
64L	Type 2 (64L)	64L	720	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
16L	Type 2 (16L)	16L	200	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
32L	Type 2 (32L)	32L	400	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
48L	Type 2 (48L)	48L	560	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
64L	Type 2 (64L)	64L	720	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
16L	Type 2 (16L)	16L	200	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
32L	Type 2 (32L)	32L	400	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
48L	Type 2 (48L)	48L	560	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
64L	Type 2 (64L)	64L	720	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
16L	Type 2 (16L)	16L	200	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
32L	Type 2 (32L)	32L	400	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
48L	Type 2 (48L)	48L	560	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
64L	Type 2 (64L)	64L	720	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
16L	Type 2 (16L)	16L	200	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
32L	Type 2 (32L)	32L	400	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
48L	Type 2 (48L)	48L	560	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
64L	Type 2 (64L)	64L	720	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
16L	Type 2 (16L)	16L	200	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
32L	Type 2 (32L)	32L	400	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
48L	Type 2 (48L)	48L	560	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
64L	Type 2 (64L)	64L	720	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
16L	Type 2 (16L)	16L	200	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
32L	Type 2 (32L)	32L	400	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
48L	Type 2 (48L)	48L	560	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
64L	Type 2 (64L)	64L	720	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
16L	Type 2 (16L)	16L	200	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
32L	Type 2 (32L)	32L	400	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
48L	Type 2 (48L)	48L	560	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
64L	Type 2 (64L)	64L	720	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
16L	Type 2 (16L)	16L	200	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
32L	Type 2 (32L)	32L	400	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
48L	Type 2 (48L)	48L	560	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
64L	Type 2 (64L)	64L	720	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
16L	Type 2 (16L)	16L	200	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
32L	Type 2 (32L)	32L	400	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
48L	Type 2 (48L)	48L	560	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
64L	Type 2 (64L)	64L	720	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
16L	Type 2 (16L)	16L	200	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
32L	Type 2 (32L)	32L	400	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS MOUNTS - Various mounting options are available.
48L	Type 2 (48L)	48L	560	3000K (25)	120-277V	Graphic Textured (SPH)	White	• VARIOUS

PLANTING SCHEDULE

QTY	SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	NOTES				
<u>SECTION 162-57: LANDSCAPE DESIGN STANDARDS (SALDO)</u>									
(LANDSCAPE DESIGN STANDARDS)									
STREET TREES									
3	•	QUERCUS PALUSTRIS	PIN OAK	3- 3.5" CAL., 14'-16' HT., SPACING AS SHOWN					
	•	(PLEASE NOTE ALTERNATE LOCATION)							
(MINIMUM PLANTING STANDARDS)									
BUILDING AREA LANDSCAPING									
2	⊗	PRUNUS SUBHIRTILLA 'AUTUMNALIS'	AUTUMN FLOWERING CHERRY	3- 3.5" CAL., 12'-14' HT., 6'-7' SP., B&B					
5	●	ILEX VERTICILLATA	WINTERBERRY HOLLY	24'-30" HT., 24'-30" SP.					
3	⊗	CLETHERA ALNIFOLIA 'HUMMINGBIRD'	HUMMINGBIRD SUMMERSWEET	24'-30" HT., 24'-30" SP.					
5	●	CEPHALOTAXUS HARRINGTONIA	JAPANESE PLUM YEW	24'-30" HT., 24'-30" SP.					
14	◎	HYPERICUM CALYCINUM 'SUNBURST'	ST. JOHNS WORT	24'-30" HT., 24'-30" SP.					
15	○	ILEX GLabra 'SHAMROCK'	DWARF SHAMROCK INKBERRY	24'-30" HT., 24'-30" SP.					
PARKING & LOADING AREA LANDSCAPING, & PARKING LOT SCREEN & INTERIOR SHADE TREES									
3	●	QUERCUS PHELLOS	WILLOW OAK	3- 3.5" CAL., 12'-14' HT., 6'-7' SP., B&B					
2	●	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LINDEN	3- 3.5" CAL., 12'-14' HT., 6'-7' SP., B&B					
6	●	CLETHERA ALNIFOLIA 'HUMMINGBIRD'	HUMMINGBIRD SUMMERSWEET	24'-30" HT., 24'-30" SP.					
5	●	CEPHALOTAXUS HARRINGTONIA	JAPANESE PLUM YEW	24'-30" HT., 24'-30" SP.					
7	●	ILEX GLabra 'SHAMROCK'	DWARF SHAMROCK INKBERRY	24'-30" HT., 24'-30" SP.					
169	◎	JUNIPERUS CONFERTA	SHORE JUNIPER	1 GAL CONT.					
EXISTING ROAD FRONTAGE REQUIREMENT									
5	⊗	ILEX x MESERVEAE 'CHINA GIRL'	CHINA GIRL HOLLY	24'-30" HT., 24'-30" SP.					
5	●	ILEX VERTICILLATA	WINTERBERRY HOLLY	24'-30" HT., 24'-30" SP.					
TRACT BOUNDARY REQUIREMENT									
3	●	CRYPTOMERIA JAPONICA 'RADICANS'	JAPANESE CEDAR	8' HT., 4.5' SP., B&B					
8	●	CORNUS SERICEA	RED TWIG DOGWOOD	24'-30" HT., 24'-30" SP.					
27	●	HYPERICUM CALYCINUM 'SUNBURST'	ST. JOHNS WORT	24'-30" HT., 24'-30" SP.					
10	●	ITEA VIRGINICA 'LITTLE HENRY'	LITTLE HENRY SWEETSPIRE	24'-30" HT., 24'-30" SP.					
13	●	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	24'-30" HT., 24'-30" SP.					
17	●	VIBURNUM TRILOBUM 'COMPACTUM'	COMPACT AMERICAN CRANBERRYBUSH	24'-30" HT., 24'-30" SP.					
10,000 SF.	SEEDED LAWN AREA								

NOTES:

1. ALL DISTURBED AREAS ARE TO BE FINE GRADED, RAKED AND SEDED.
2. CONTRACTOR IS TO VERIFY SEEDING QUANTITY PRIOR TO BID.

LEGEND

● PROPOSED LIGHT FIXTURE, SEE CIVIL PLANS.

SITE PLAN NOTES:

1. ALL LINES AND GRADE WORK NOT PRESENTLY ESTABLISHED AT THE SITE SHALL BE LAID OUT BY A REGISTERED LAND SURVEYOR OR PROFESSIONAL CIVIL ENGINEER EMPLOYED BY THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. THIS PLAN IS TO BE USED FOR LANDSCAPING AND SITE IMPROVEMENT PURPOSED ONLY.
3. PLANS CREATED FROM DRAWINGS FROM D.L. HOWELL & ASSOCIATES, INC. ENGINEERING DATED, 02/16/2023.
4. LOCATION OF ALL UNDERGROUND UTILITIES SHALL BE VERIFIED AND MARKED IN THE FIELD, PRIOR TO ANY DIGGING OPERATIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING EXISTING TREES AND PLANT MATERIAL WITHIN THE AREA OF PROPOSED IMPROVEMENTS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS OFF-SITE, CLEAN-UP OF ALL PAVED AREAS (ROADWAYS, SIDEWALKS, ETC.) AND RESTORATION OF ALL DISTURBED LAWN AREAS.
7. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGE TO UNDERGROUND UTILITIES DAMAGED.
8. CONTRACTOR SHALL PROVIDE SCREENED PLANTING SOIL WHERE PLANTING IS TO OCCUR. 36" DEPTH, 6" DEPTH AT LAWN AREAS.
9. FOLLOWING COMPLETION OF ALL PLANTING INSTALLATION WORK, THE CONTRACTOR SHALL BE REQUIRED TO RESTORE ALL DISTURBED LAWN AREAS.
10. NO TREE SHALL BE PLANTED CLOSER THAN 10 FEET FROM AN UNDERGROUND UTILITY.
11. ALL LINES ARE PARALLEL OR PERPENDICULAR UNLESS SHOWN OTHERWISE.
12. VERIFY LAYOUT OF ALL PROPOSED WORK TO EXISTING CONDITIONS. REPORT DISCREPANCIES BEFORE ANY CLEARING OR EXCAVATION IS DONE.
13. PROVIDE STAKED LAYOUT ON SITE FOR OWNER AND LANDSCAPE ARCHITECT'S REVIEW PRIOR TO COMMENCING WORK.
14. ALL DIMENSIONS SHOWN ARE TO FACE OF MATERIALS, UNLESS SHOWN OTHERWISE.
15. PLEASE NOTE, CLIENT DID NOT RETAIN STUART AND ASSOCIATES, LLC. TO PROVIDE LONG TERM MAINTENANCE SPECIFICATIONS FOR THE LANDSCAPE MATERIAL.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING PA ONE CALL AND LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY DIGGING OR PLANT REMOVAL OCCURS.
17. CONTRACTOR SHALL INSTALL SILT FENCE IN ANY AREAS WHERE SOIL MAY RUNOFF INTO PARKING AREAS OR INTO EXISTING INLETS.
18. FOLLOWING THE COMPLETION, THE EXISTING VEGETATION WILL BE INSPECTED FOR HEALTH AND QUALITY, AND IF NOT DEEMED IN GOOD CONDITION, REPLACED WITH THE EQUIVALENT COMPENSATORY PLANTINGS.
19. V.I.F. = VERIFY IN FIELD.

NOTE:

1. SEE PLANTING SCHEDULES AND CHARTS L9.00

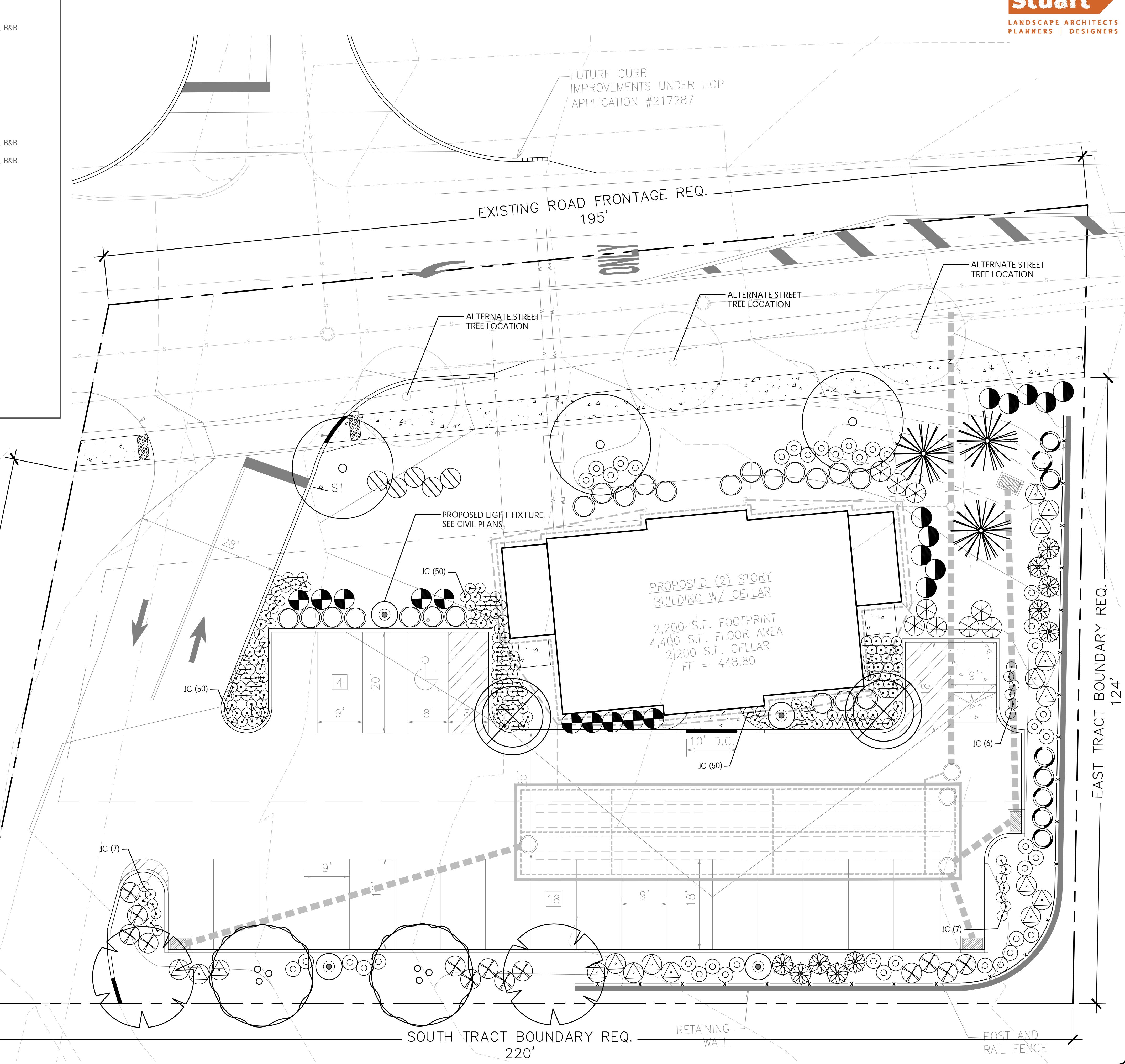
GRAPHIC SCALE
1 inch = 10 feet

WEST TRACT BOUNDARY REQ.
108'

EXISTING ROAD FRONTAGE REQ.
195'

SOUTH TRACT BOUNDARY REQ.
220'

EAST TRACT BOUNDARY REQ.
124'



PLANTING SCHEDULE

QTY	SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	NOTES
SECTION 162-57: LANDSCAPE DESIGN STANDARDS (SALDO) (LANDSCAPE DESIGN STANDARDS)					
3	●	QUERCUS PALUSTRIS	PIN OAK	3- 3.5" CAL., 14- 16' HT., SPACING AS SHOWN (PLEASE NOTE ALTERNATE LOCATION)	
(MINIMUM PLANTING STANDARDS)					
2	●	PRUNUS SUBHIRTILLA 'AUTUMNALIS'	AUTUMN FLOWERING CHERRY	3- 3.5" CAL., 12-14' HT., 6- 7' SP., B&B	
5	●	ILEX VERTICILLATA	WINTERBERRY HOLLY	24-30" HT., 24-30" SP.	
3	●	CLETHERA ALNIFOLIA 'HUMMINGBIRD'	HUMMINGBIRD SUMMERSWEET	24-30" HT., 24-30" SP.	
5	●	CEPHALOTAXUS HARRINGTONIA	JAPANESE PLUM YEW	24-30" HT., 24-30" SP.	
14	●	HYPERICUM CALYCINUM 'SUNBURST'	ST. JOHNS WORT	24-30" HT., 24-30" SP.	
15	●	ILEX GLABRA 'SHAMROCK'	DWARF SHAMROCK INKBERRY	24-30" HT., 24-30" SP.	
PARKING & LOADING AREA LANDSCAPING, & PARKING LOT SCREEN & INTERIOR SHADE TREES					
3	●	QUERCUS PHELLOS	WILLOW OAK	3- 3.5" CAL., 12-14' HT., 6- 7' SP., B&B.	
2	●	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LINDEN	3- 3.5" CAL., 12-14' HT., 6- 7' SP., B&B.	
6	●	CLETHERA ALNIFOLIA 'HUMMINGBIRD'	HUMMINGBIRD SUMMERSWEET	24-30" HT., 24-30" SP.	
5	●	CEPHALOTAXUS HARRINGTONIA	JAPANESE PLUM YEW	24-30" HT., 24-30" SP.	
7	●	ILEX GLABRA 'SHAMROCK'	DWARF SHAMROCK INKBERRY	24-30" HT., 24-30" SP.	
169	●	JUNIPERUS CONFERTA	SHORE JUNIPER	1 GAL CONT.	
EXISTING ROAD FRONTAGE REQUIREMENT					
5	●	ILEX x MERSERVEAE 'CHINA GIRL'	CHINA GIRL HOLLY	24-30" HT., 24-30" SP.	
5	●	ILEX VERTICILLATA	WINTERBERRY HOLLY	24-30" HT., 24-30" SP.	
TRACT BOUNDARY REQUIREMENT					
3	●	CRYPTOMERIA JAPONICA 'RADICANS'	JAPANESE CEDAR	8' HT., 4-5' SP., B&B	
8	●	CORNUS SERICEA	RED TWIG DOGWOOD	24-30" HT., 24-30" SP.	
27	●	HYPERICUM CALYCINUM 'SUNBURST'	ST. JOHNS WORT	24-30" HT., 24-30" SP.	
10	●	ITEA VIRGINICA 'LITTLE HENRY'	LITTLE HENRY SWEETSPIRE	24-30" HT., 24-30" SP.	
13	●	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	24-30" HT., 24-30" SP.	
17	●	VIBURNUM TRILOMUM 'COMPACTUM'	COMPACT AMERICAN CRANBERRYBUSH	24-30" HT., 24-30" SP.	
10,000 SF.		SEEDED LAWN AREA			

NOTES:
1. ALL DISTURBED AREAS ARE TO BE FINE GRADED, RAKED AND SEEDED.
2. CONTRACTOR IS TO VERIFY SEEDING QUANTITY PRIOR TO BID.

GENERAL PLANTING NOTES:

1. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR 18 MONTHS.
2. ALL PLANT MATERIAL SHALL BE OF SPECIMEN QUALITY.
3. ALL PLANT MATERIAL SHALL BE LAID OUT IN FIELD BY LANDSCAPE ARCHITECT.
- (NOTE: NO SHRUBS SHALL BE PLANTED UNTIL ALL TREE PLANTING IS COMPLETED.)
4. ALL PLANT MATERIAL SHALL BE THOROUGHLY WATERED DURING INSTALLATION AND THROUGHOUT THE GUARANTEE PERIOD.
5. ALL PLANT MATERIAL SHALL BE WATERED BY CONTRACTOR AT LEAST THREE (3) TIMES IN ABSENCE OF NATURAL RAINFALL OR UNTIL THE END OF THE GUARANTEE PERIOD.
6. ALL TREES SHALL BE PROVIDED WITH A 3" DEEP SAUCER, CONSISTING OF SHREDDED OAK BARK MULCH.
7. ALL PLANT MATERIALS SHALL BE IN ACCORDANCE WITH THE AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1-2004). PLANT ACCORDING TO ANSI A300 PART 6.
8. CONTRACTOR SHALL PROVIDE LANDSCAPE ARCHITECT WITH NURSERY SOURCE OF ALL PLANT MATERIAL. LANDSCAPE ARCHITECT SHALL PERFORM A SITE VISIT TO INSPECT NURSERY SOURCE PRIOR TO DELIVERY OF ANY PLANT MATERIAL.
9. ALL TREES AND SHRUBS DELIVERED TO THE SITE SHALL BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING. ALL TREES AND SHRUBS SHALL HAVE WATERPROOF TAG BEARING LEGIBLE DESIGNATION OF BOTANICAL AND COMMON NAME.
10. ALL PLANT SUBSTITUTIONS MUST BE APPROVED BY THE TOWNSHIP.
11. ANY PLANT MATERIAL EXHIBITING SIGNS OF DISEASE, INSECTS, EGGS, LARVAE AND DEFECTS SUCH AS KNOTS, SUN-SCALD, INJURIES, ABRASIONS OR DISFIGUREMENT SHALL BE REJECTED.
12. ALL PROPOSED SHRUBS SHALL BE PLANTED IN CONTINUOUS MULCHED BEDS, CONSISTING OF 3" OF OAK BARK MULCH.
13. SCARIFY THE SUBGRADE AND SIDES OF THE PLANTING HOLE WHEN PLANTING IN CLAY SOILS (MORE THAN 15% CLAY).
14. LIFT AND SET THE TREE BY ROOTBALL ONLY. DO NOT LIFT USING THE TREE TRUNK AND DO NOT USE TREE TRUNK AS A LEVER.
15. SET THE TOP OF THE ROOTBALL LEVEL WITH THE SOIL SURFACE OR SLIGHTLY HIGHER IF THE SOIL IS PRONE TO SETTLING.
16. AFTER THE TREE IS SET IN PLACE, REMOVE BURLAP, WIRE AND STRAPS FROM AT LEAST THE UPPER 1/2 OF THE ROOTBALL.
17. PRUNING SHALL BE LIMITED TO DEAD, DISEASED, OR BROKEN LIMBS ONLY AND SHALL BE IN ACCORDANCE WITH THE ANSI A300 SPECIFICATIONS. IF ADDITIONAL PRUNING IS NECESSARY, IT SHALL BE DONE BY A CERTIFIED ARBORIST.
18. REMOVE ANY TRUNK WRAP REMAINING AT TIME OF PLANTING. NO WRAPS SHALL BE PLACED ON TRUNK.
19. DO NOT REMOVE TREE IDENTIFICATION TAGS UNTIL THE LANDSCAPE ARCHITECT HAS CONFIRMED CORRECT SPECIES MATCHES THE PROJECT PLANTING SCHEDULE.
20. LANDSCAPING MATERIALS SHALL BE FIELD ADJUSTED DURING INSTALLATION TO AVOID CONFLICT BETWEEN THE LIGHT FIXTURES, UTILITIES, AND TREE CANOPIES.

UPPER UWCHLAN TOWNSHIP - TOWNSHIP LANDSCAPING REQUIREMENTS
DISTRICT : C1 : VILLAGE COMMERCIAL DISTRICT

REQUIRED PROPOSED

CODE LANGUAGE

§162-57. LANDSCAPE DESIGN, INSTALLATION, AND MAINTENANCE STANDARDS (SALDO)

(C) LANDSCAPE DESIGN STANDARDS

6(b). STREET TREES SPACING SHALL BE NO GREATER THAN 50 FEET.

ROAD FRONTAGE = 195 FT. / 50' = 4 STREET TREES

4 DECIDUOUS TREES

3* (WAIVER REQ.)

7(c). THE INTERIOR OF A PARKING LOT SHALL HAVE 1 SHADE TREE FOR EVERY 5 PARKING SPACES.

22 SPACES / 5 = 4.4 SHADE TREES

5 DECIDUOUS TREES

SATISFIED BY PARKING & LOADING LANDSCAPING REQUIREMENT (BELOW)

(D) MINIMUM PLANTING STANDARDS

PER 1,000 SF OF GROSS BUILDING AREA - 2,200 SF

2 - (3-3.5" CAL. MIN.) DECIDUOUS TREE / 1,000 SF

2,200 SF / 1,000 SF = 2.2

2.2 x 2 = 4.4 DECIDUOUS TREES

5 DECIDUOUS TREES

2* (WAIVER REQ.)

1 - (8' HT/ MIN.) EVERGREEN TREE / 1,000 SF

2,200 SF / 1,000 SF = 2.2

2.2 x 1 = 2.2 EVERGREEN TREES

3 EVERGREEN TREES

0* (WAIVER REQ.)

PER 2,000 SF OF PARKING OR LOADING AREA - 8,370 SF

1 - DECIDUOUS TREE / 2,000 SF

8,370 SF / 2,000 SF = 4.2

4.2 x 1 = 4.2 DECIDUOUS TREES

5 DECIDUOUS TREES

5 DECIDUOUS TREES

1 - EVERGREEN TREE / 2,000 SF

8,370 SF / 2,000 SF = 4.2

4.2 x 1 = 4.2 EVERGREEN TREES

5 EVERGREEN TREES

0* (WAIVER REQ.)

4 - SHRUBS / 2,000 SF

8,370 SF / 2,000 SF = 4.2

4.2 x 4 = 16.8 SHRUBS

17 SHRUBS

18 SHRUBS AND 20 GROUNDCOVER PLANTINGS

PER 100 LF OF NEW AND EXISTING ROAD FRONTAGE

EXISTING ROAD FRONTAGE 195 LF

2 - DECIDUOUS TREE / 100 LF

195 LF / 100 LF = 1.9

1.9 x 2 = 3.8 DECIDUOUS TREES

4 DECIDUOUS TREES

0* (WAIVER REQ.)

1 - EVERGREEN TREE / 100 LF

195 LF / 100 LF = 1.9

1.9 x 1 = 1.9 EVERGREEN

2 EVERGREEN TREES

0* (WAIVER REQ.)

5 - SHRUBS / 100 LF

195 LF / 100 LF = 1.9

1.9 x 5 = 9.5 SHRUBS

10 SHRUBS

10 SHRUBS

PER 100 LF OF EXISTING TRACT BOUNDARY - 452 LF

1 - DECIDUOUS TREE / 100 LF

452 LF / 100 LF = 4.5

4.5 x 1 = 4.5 DECIDUOUS TREES

5 DECIDUOUS TREES

0* (WAIVER REQ.)

2 - EVERGREEN TREE / 100 LF

452 LF / 100 LF = 4.5

4.5 x 2 = 9 EVERGREEN TREES

9 EVERGREEN TREES

3* (WAIVER REQ.)

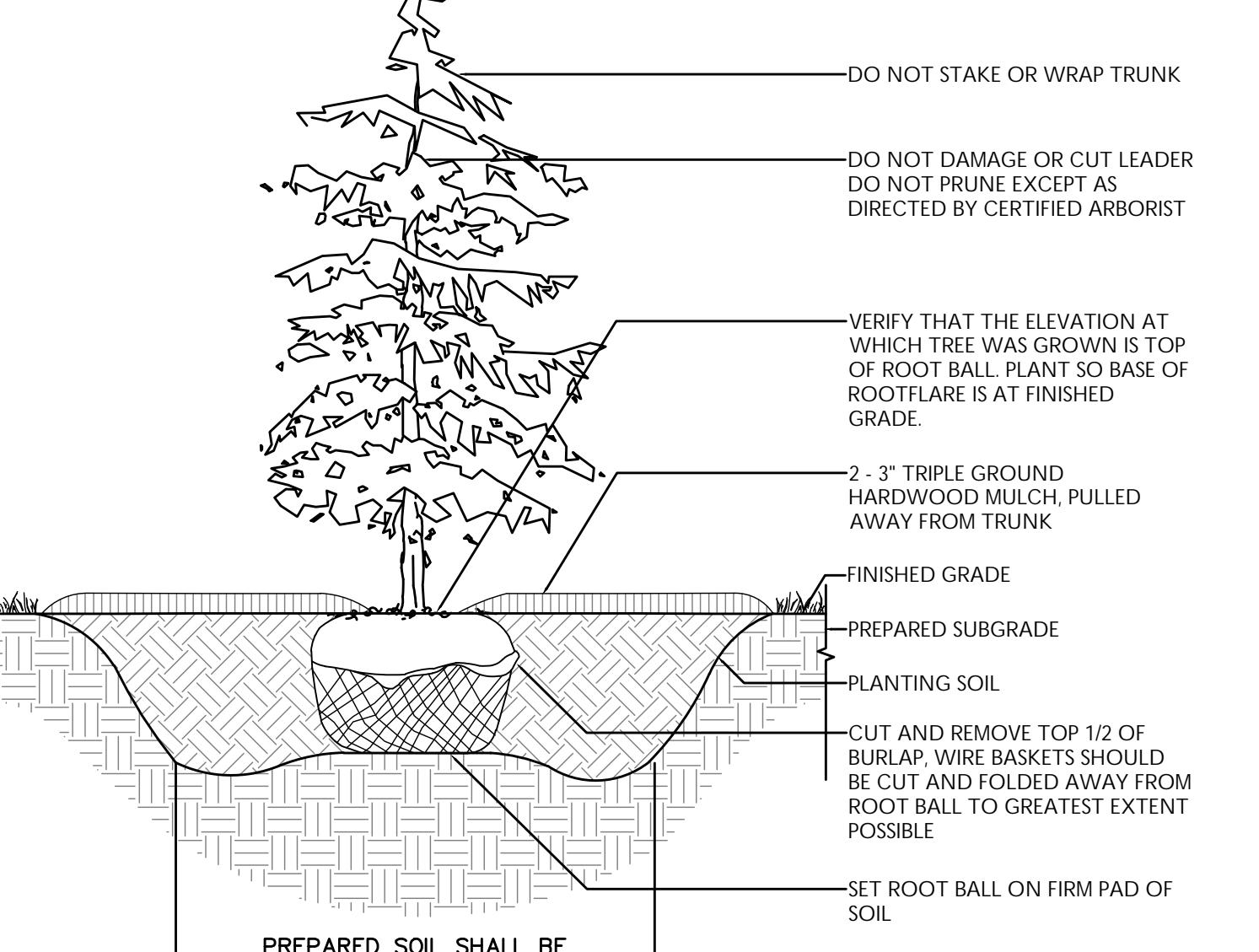
8 - SHRUBS / 100 LF

452 LF / 100 LF = 4.5

4.5 x 8 = 36 SHRUBS

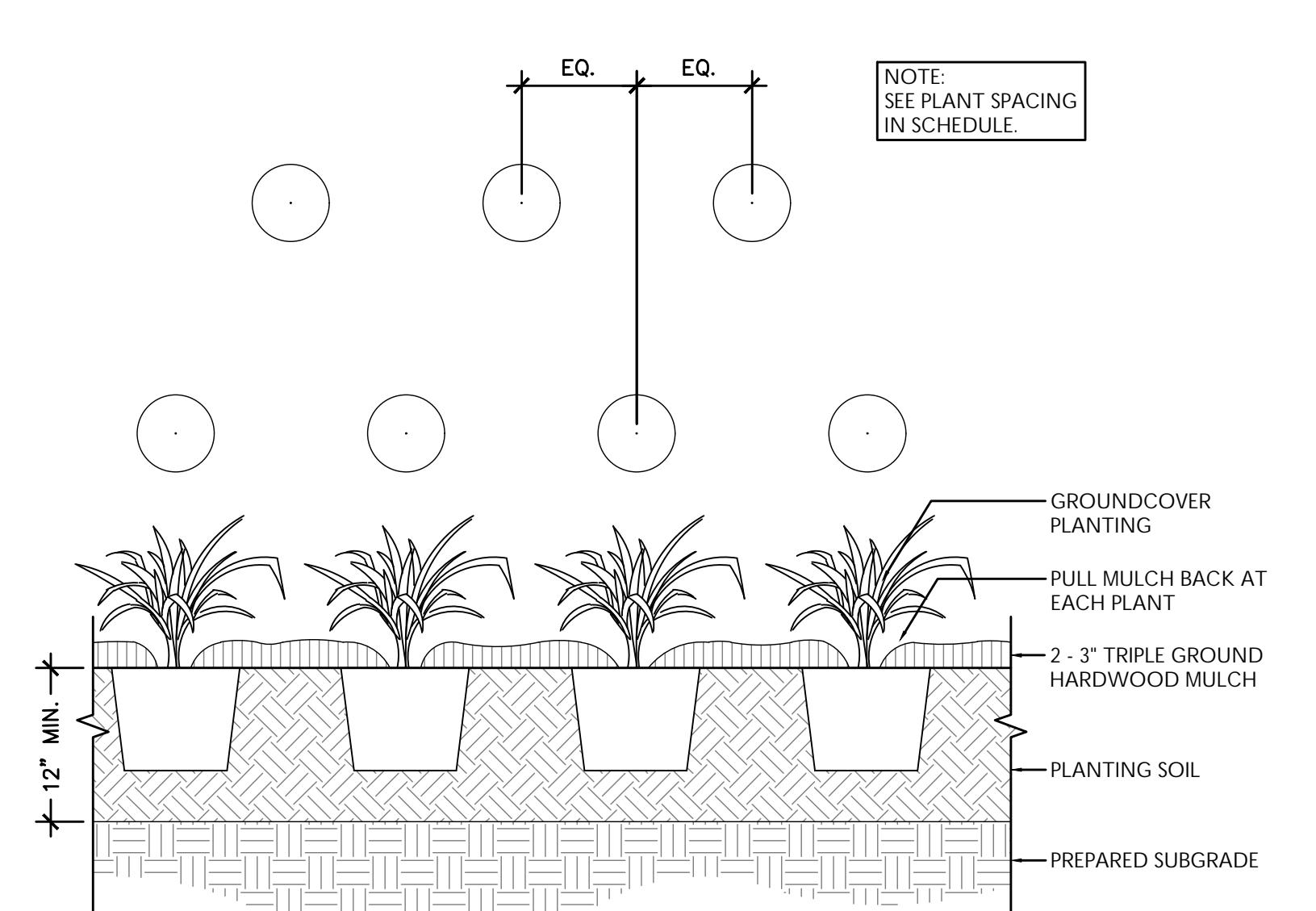
36 SHRUBS

75 SHRUBS



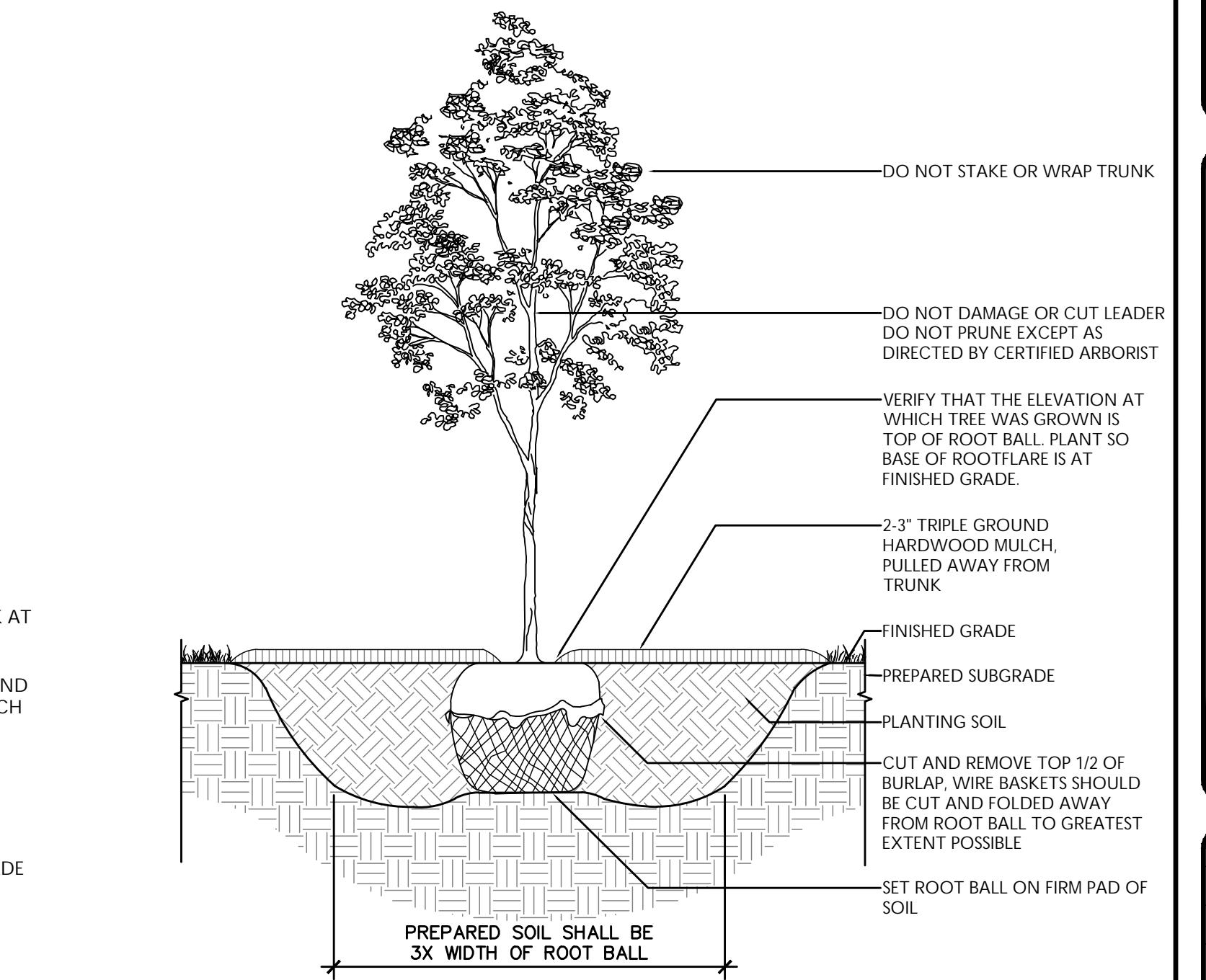
4 EVERGREEN TREE PLANTING DETAIL, TYP.

SCALE : 1/2" = 1'-0"



3 GROUNDCOVER PLANTING DETAIL, TYP.

SCALE : 1" = 1'-0"



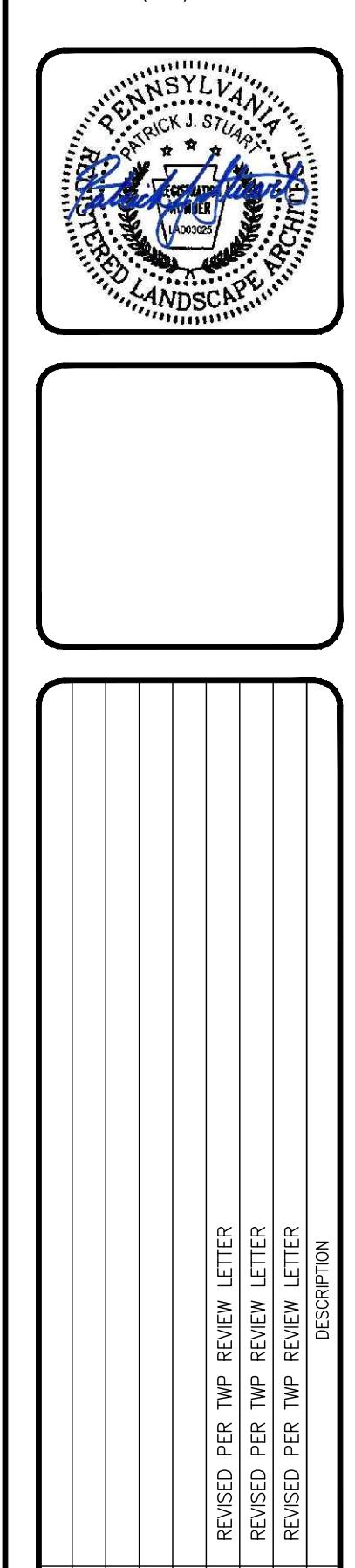
1 TREE PLANTING DETAIL, TYP.

SCALE : 1/2" = 1'-0"

LANDSCAPE ARCHITECTS
PLANNERS | DESIGNERS

Civil Engineering
Land Planning
Environmental
www.DLHowell.com

1250 Wrights Lane
West Chester, PA 19380
Phone: (610) 918-9002
Fax: (610) 918-9003



8	7	6	5	4	3	2	1	0
---	---	---	---	---	---	---	---	---