



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 13<sup>th</sup> 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



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](http://www.gilmore-assoc.com)

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

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.*

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

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.

Mr. Tony Scheivert  
Upper Uwchlan Township Manager

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

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**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  
Upper Uwchlan Township Manager

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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.

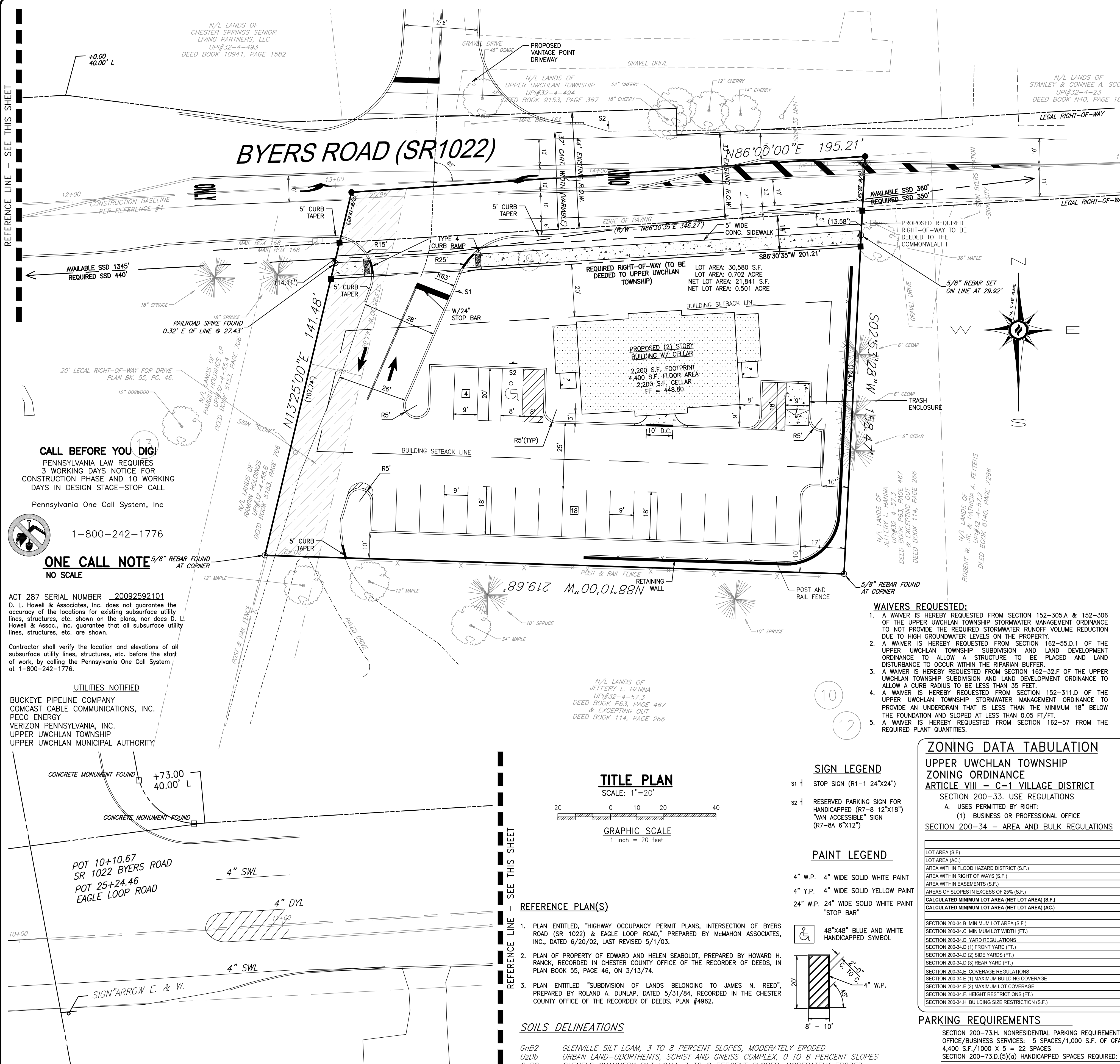
Sincerely,

*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)





**RECORD OWNER:**  
UPI #32-4-56  
QBD VENTURES  
5 BLUE SKY TRAIL  
TRAVELERS REST, SC 29690

**THIS SHEET TO BE RECORDED**

UPI# 32-4-56 D.B. 7525 PAGE 642

**LEGEND**

—E— PROP. ELEC. LINE	—W— PROP. WATER LINE
—O— PROP. UTILITY POLE	—WL— PROP. WATER LATERAL
—O— PROP. UTILITY POLE	—FW— PROP. FIRE WATER LINE
—G— EX. GAS LINE	—WV— PROP. WATER VALVE
—G— PROP. GAS LINE	—HD— PROP. HYDRANT
—G.V.— EX. GAS VALVE	—MH— EX. MANHOLE
—G.V.— PROP. GAS VALVE	—O— PROP. MANHOLE
—S— EX. SANITARY SEWER LINE	—1— TITLE REPORT NOTE
—S— PROP. SAN. SEWER LINE	
—L— PROP. SAN. SEWER LATERAL	
—MH— PROP. SANITARY MH. ID	
—W— EX. WATER LINE	

**SOILS DELINEATIONS**

GlnB2 GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED  
Uz2D URBAN LAND-UDORTHENS, SCHIST AND GNEISS COMPLEX, 0 TO 8 PERCENT SLOPES  
GnB2 GLENELG CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED

**REFERENCE PLAN(S)**

- PLAN ENTITLED, "HIGHWAY OCCUPANCY PERMIT PLANS, INTERSECTION OF BYERS ROAD (SR 1022) & EAGLE LOOP ROAD, PREPARED BY McMAHON ASSOCIATES, INC., DATED 6/20/02, LAST REVISED 5/1/03.
- PLAN OF PROPERTY OF EDWARD AND HELEN SEABOLT, PREPARED BY HOWARD H. RANCK, RECORDED IN CHESTER COUNTY OFFICE OF THE RECORDER OF DEEDS, IN PLAN BOOK 55, PAGE 46, ON 3/13/74.
- PLAN ENTITLED "SUBDIVISION OF LANDS BELONGING TO JAMES N. REED", PREPARED BY ROLAND A. DUNLAP, DATED 5/31/84, RECORDED IN THE CHESTER COUNTY OFFICE OF THE RECORDER OF DEEDS, PLAN #4962.

**SIGN LEGEND**

4" W.P. 4" WIDE SOLID WHITE PAINT  
4" Y.P. 4" WIDE SOLID YELLOW PAINT  
24" W.P. 24" WIDE SOLID WHITE PAINT "STOP BAR"

**PAINT LEGEND**

4" W.P. 4" WIDE SOLID WHITE PAINT  
4" Y.P. 4" WIDE SOLID YELLOW PAINT  
24" W.P. 24" WIDE SOLID WHITE PAINT "STOP BAR"

COMMONWEALTH OF PENNSYLVANIA COUNTY OF CHESTER

ON THIS THE \_\_\_\_\_ DAY OF \_\_\_\_\_, 2011, A.D. BEFORE ME, THE SUBSCRIBER, A NOTARY PUBLIC OF THE COMMONWEALTH OF PENNSYLVANIA, RESIDING IN \_\_\_\_\_, WHO KNOWLEDGES HIMSELF TO BE THE PARTNER \_\_\_\_\_ OF \_\_\_\_\_ QBD VENTURES \_\_\_\_\_

AND THAT AS SUCH TO DO SO, HE EXECUTED THE FOREGOING PLAN BY SIGNING THE NAME OF THE SAID GENERAL PARTNERSHIP BY HIMSELF AS PARTNER \_\_\_\_\_ THAT THE SAID GENERAL PARTNERSHIP IS THE OWNER OF THE DESIGNATED LAND, THAT ALL NECESSARY APPROVAL OF THE PLAN HAS BEEN OBTAINED AND IS ENDORSED THEREON AND THAT THE SAID GENERAL PARTNERSHIP DESIRES THAT THE FOREGOING PLAN MAY BE DULY RECORDED.

PETER J. RODGERS, QBD VENTURES

NOTARY PUBLIC  
MY COMMISSION EXPIRES: \_\_\_\_\_

REVIEWED BY THE PLANNING COMMISSION OF UPPER UWCHLAN TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA, THIS DAY OF \_\_\_\_\_, 20\_\_\_\_

CHAIRPERSON \_\_\_\_\_  
MEMBER \_\_\_\_\_  
MEMBER \_\_\_\_\_

APPROVED BY THE TOWNSHIP SUPERVISORS OF UPPER UWCHLAN TOWNSHIP, CHESTER COUNTY, PENNSYLVANIA, THIS DAY OF \_\_\_\_\_, 20\_\_\_\_

CHAIRPERSON \_\_\_\_\_  
MEMBER \_\_\_\_\_  
MEMBER \_\_\_\_\_

REVIEWED BY THE CHESTER COUNTY PLANNING COMMISSION THIS DAY OF \_\_\_\_\_, 20\_\_\_\_

SECRETARY \_\_\_\_\_

REVIEWED BY THE UPPER UWCHLAN TOWNSHIP ENGINEER THIS DAY OF \_\_\_\_\_, 20\_\_\_\_

TOWNSHIP ENGINEER \_\_\_\_\_

RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS OF CHESTER COUNTY AT WEST CHESTER, PENNSYLVANIA, IN PLAN BOOK \_\_\_\_\_ PAGE \_\_\_\_\_ ON THE \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_

(DEPUTY) RECORDER OF DEEDS \_\_\_\_\_

**CERTIFICATE OF CONFORMANCE - P.E.**

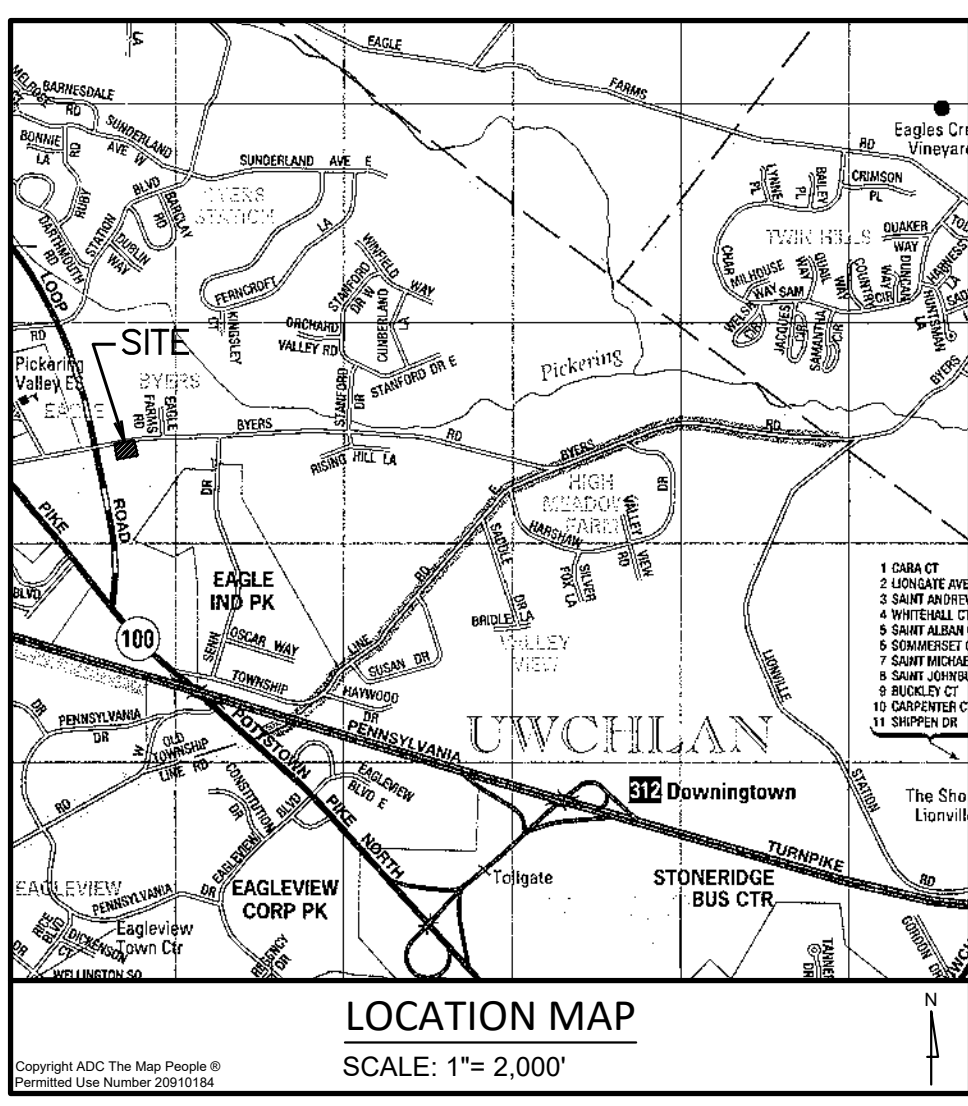
I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THESE PLANS ARE IN CONFORMITY WITH ENGINEERING, ZONING, BUILDING, SANITATION AND OTHER APPLICABLE TOWNSHIP ORDINANCES AND REGULATIONS.

*David W. Gibbons* 08/07/2023  
DAVID W. GIBBONS, P.E. LICENSE NO. PE 076444

**CERTIFICATE OF ACCURACY - SURVEY**

I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, ALL SURVEY BOUNDARY INFORMATION AND COMPUTATIONS SHOWN AND DESCRIBED HEREON IS TRUE AND CORRECT TO THE ACCURACY REQUIRED BY THE UPPER UWCHLAN TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.

MATTHEW A. WAYMAN, PLS LICENSE NO. SU75525



- GENERAL NOTES:**
- RECORD OWNER: QBD VENTURES, 5 BLUE SKY TRAIL, TRAVELERS REST, SC 29690
  - SOURCE OF TITLE: DEED BOOK 7525, PAGE 642
  - TAX PARCEL: 32-4-56
  - LOT AREA: GROSS: 30,580 SQ. FT. (0.702 ACRES)  
AREA WITHIN R/W: 6,332 SQ. FT. (0.145 ACRES)  
NET: 24,248 SQ. FT. (0.557 ACRES)
  - BOUNDARY INFORMATION SHOWN IS FROM FIELD SURVEY BY HOWELL KLINE SURVEYING, LLC, PERFORMED ON 2/19/09.
  - TOPOGRAPHIC INFORMATION SHOWN IS FROM FIELD SURVEY BY HOWELL KLINE SURVEYING, LLC, PERFORMED ON 2/19/09.
  - CONTOURS PLOTTED FROM FIELD RUN TOPOGRAPHIC SURVEY BY HOWELL KLINE SURVEYING, LLC, DATUM: APPROX. USGS. SITE: RIM OF STORM MANHOLE ACROSS FROM SITE, ELEVATION= 445.77' CONTOUR INTERVAL: 2 FT.
  - UNDERGROUND UTILITIES SHOWN WERE PLOTTED FROM OBSERVABLE EVIDENCE AT THE TIME OF SURVEY AND INFORMATION FROM PLANS SUPPLIED BY UTILITY COMPANIES. NO GUARANTEE IS MADE THAT UNDERGROUND UTILITIES ARE ACCURATELY OR COMPLETELY SHOWN HEREON.
  - THE EXISTING LEGAL RIGHT-OF-WAY OF SR. 1022 WAS TAKEN FROM PLAN ENTITLED, "HIGHWAY OCCUPANCY PERMIT PLANS, INTERSECTION OF BYERS ROAD (SR 1022) & EAGLE LOOP ROAD," PREPARED BY McMAHON ASSOCIATES, INC., DATED 6/20/02, LAST REVISED 5/1/03.
  - THIS PROPERTY IS LOCATED WITHIN FLOOD HAZARD ZONE X, AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL FLOODPLAIN AS PER THE NATIONAL FLOOD INSURANCE RATE MAP FOR CHESTER COUNTY, PA. MAP NO. 42029C0095F, PANEL 95 OF 380, DATED SEPTEMBER 29, 2006. FLOOD PLAN BOUNDARIES SHOWN HEREON WERE SCALED FROM THE ABOVE MENTIONED MAP.
  - SOILS INFORMATION PROVIDED BY PENN STATE COLLEGE OF AGRICULTURE COOPERATIVE EXTENSION, WITH SUPPORT FROM THE NATURAL RESOURCES CONSERVATION SERVICE. SOILS ATTRIBUTE DATA IS SERVED FROM THE NRCS SOIL DATA MART.
  - ALL OBSERVABLE EVIDENCE OF WELLS AND SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY ARE SHOWN HEREON.
  - SITE IS TO BE SERVED BY PUBLIC WATER BY CONNECTING TO THE NEWLY INSTALLED WATER MAIN EXTENSION IN BYERS ROAD.
  - SITE IS TO BE SERVED BY PUBLIC SANITARY SEWER BY CONNECTING TO THE NEWLY INSTALLED SEWER MAIN WITHIN BYERS ROAD.
  - ALL LOT CORNERS TO BE SET WITH IRON PINS. \* \* \* INDICATES IRON PIN. CONCRETE MONUMENTS SHALL BE SET AT EACH CHANGE IN DIRECTION OF THE TRACT BOUNDARY. \* \* \* INDICATES MONUMENT. DEVELOPER WILL BE RESPONSIBLE FOR SETTING PROPERTY CORNERS AND MONUMENTATION PRIOR TO ANY BUILDING CONSTRUCTION ACTIVITIES. SEE DETAIL SHEET FOR FURTHER INFORMATION ON MONUMENTS.
  - ALL BUILDING MATERIALS AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ. AND 287.1 ET SEQ. NO BUILDING MATERIAL SHALL BE BURIED, DUMPED OR DISCHARGED FROM THE SITE.
  - A WETLANDS INVESTIGATION HAS BEEN PERFORMED AND HAS DETERMINED THAT NO WETLANDS EXIST ON THE SITE.
  - UPPER UWCHLAN TOWNSHIP SHALL HAVE THE RIGHT, BUT NOT THE OBLIGATION, THROUGH A BLANKET EASEMENT TO ENTER THE PROPERTY FOR ACCESS TO THE PROPOSED BMP'S FOR INSPECTION AND/OR MONITORING PURPOSES.
  - THE 35-FOOT HALF-WIDTH REQUIRED RIGHT-OF-WAY ALONG BYERS ROAD IS TO BE DEEDED TO UPPER UWCHLAN TOWNSHIP.
  - LARGEST VEHICLE ANTICIPATED TO VISIT THE SITE IS A STANDARD BOX TYPE DELIVERY TRUCK.
  - ALL SIGHT DISTANCE OBSTRUCTIONS (INCLUDING BUT NOT LIMITED TO EMBANKMENTS AND VEGETATION) SHALL BE REMOVED BY THE PERMITTEE TO PROVIDE A MINIMUM OF 440 FEET OF LEFT SIGHT DISTANCE AND 350 FEET OF RIGHT SIGHT DISTANCE FOR A DRIVER EXITING THE PROPOSED LOCAL ROAD ONTO THE STATE HIGHWAY. THE DRIVER MUST BE CONSIDERED TO BE POSITIONED 10' FROM THE NEAR EDGE OF THE CLOSEST HIGHWAY THROUGH TRAVEL LANE (FROM THE CURBLINE IF CURBING IS PRESENT) AT AN EYE HEIGHT OF THREE FEET-SIX INCHES (3'-6") ABOVE THE PAVEMENT SURFACE LOCATED IN THE CENTER OF THE CLOSEST HIGHWAY TRAVEL LANE DESIGNATED FOR USE BY APPROACHING TRAFFIC. THIS SIGHT DISTANCE SHALL BE MAINTAINED BY THE PERMITTEE.
  - AN AS-BUILT SURVEY OF ALL STORMWATER BMP'S AND AN EXPLANATION OF ANY DISCREPANCIES WITH THE OPERATION AND MAINTENANCE PLAN SHALL BE PROVIDED TO UPPER UWCHLAN TOWNSHIP.
  - IF SUBJECT PROPERTY OR THE ADJACENT PROPERTIES THAT SHARE THE PROPOSED ACCESS EVER REDEVELOP OR CHANGE USE, THESE PROPERTIES WILL BE RESPONSIBLE FOR ANY MODIFICATIONS TO THE ACCESS IF NEEDED.
  - ALL SANITARY SEWER MATERIALS, SPECIFICATIONS, INSTALLATION PROCEDURES AND PIP SPECIFICATIONS SHALL BE CONSISTENT WITH THE UPPER UWCHLAN TOWNSHIP MUNICIPAL AUTHORITY STANDARDS.
  - PRIOR TO CONSTRUCTION, A MINIMUM OF 48 HOURS NOTICE IS REQUIRED TO BE GIVEN TO THE UPPER UWCHLAN TOWNSHIP MUNICIPAL AUTHORITY AND THEIR ENGINEER.
  - THE PROPOSED ESTABLISHMENT IS REQUIRED TO COMPLY WITH THE REGULATIONS FOR THE DISCHARGE OF NON-RESIDENTIAL WASTE INTO THE UPPER UWCHLAN TOWNSHIP MUNICIPAL AUTHORITY'S SEWAGE SYSTEM, RESOLUTION #10-20-04-15, DATED OCTOBER 20, 2004.
  - THE APPLICANT GRANTS THE OWNERS OF THE FOLLOWING PARCELS (TAX PARCEL NOS. 32-4-57, 32-4-57-3, 32-4-57-2 AND 32-57-2) THE RIGHT TO USE THE PAVED DRIVEWAY AND PARKING LOT AS SHOWN ON THIS PLAN AS A MEANS OF INGRESS AND EGRESS TO BYERS ROAD PROVIDED SUCH ACCESS DOES NOT UNREASONABLY INTERFERE WITH THE USE OF THE SUBJECT PROPERTY AND PROVIDED SUCH ACCESS IS APPROVED BY THE TOWNSHIP AND/OR PENDOT.
  - BUILDING AND STRUCTURE HAVE SINCE BEEN RAZED AND THE SEPTIC SYSTEM HAS BEEN ABANDONED/REMOVED PER CHESTER COUNTY HEALTH DEPARTMENT STANDARDS.
  - THE ANTICIPATED SEWER USAGE FOR THE PROPOSED DEVELOPMENT HAS BEEN ESTIMATED 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 PRIOR TO THE CONNECTION OF THE SANITARY SEWER.

**TITLE REPORT NOTES**

- This survey was performed utilizing a Commitment for Title Insurance prepared by Land America Lawyers, Case Number L31173, Policy Number C70-0008017, effective date September 22, 2008. Name of the Insured is QBD Ventures, a PA General Partnership, and the land referred to in this policy is described as 164 Byers Road, Uchlan, PA 19380, Schedule B-Section 2 of said Commitment contains the following survey related matters (item numbers correspond to the Title Commitment numbers.)
- Rights of the public and other entitled thereto in and to the use of that portion of the premises within the bounds of Byers Road (L.R. 15142), (Right-of-way of SR 1022 plotted hereon.)
  - Rights granted to Philadelphia Electric Company in Miscellaneous Deed book 86, Page 509, and Miscellaneous Deed Book 173, Page 660. (Documents describes the right to install electric utilities immediately outside the legal Right-of-Way limits of Byers Road. Observable evidence of electric lines and utility poles located along Byers Road are shown hereon.)
  - Water rights as set forth in Miscellaneous Deed Book 119, Page 583. (Document describes the right to access and use a well located across UPI# 32-4-57.3. Approximate location scaled from reference plan #3 show hereon, no observable evidence of well or water line at time of survey.)
  - Rights granted to Manufacturers Light and Heat Co., in Miscellaneous Deed Book 117, Page 88. (No observable evidence of pipeline at time of survey.)
  - Agreement recorded in Miscellaneous Deed Book 643, Page 214. (Document describes the right to access and use a well located across UPI# 32-4-57.3. Approximate location scaled from reference plan #3 show hereon, no observable evidence of well or water line at time of survey.)
  - Reservations as set forth in instrument recorded in Deed Book E-43, Page 50. (Documents describes a 20' wide access easement for UPI#32-4-57.3 and UPI#32-4-57, plotted hereon.)

**ZONING DATA TABULATION**

**UPPER UWCHLAN TOWNSHIP ZONING ORDINANCE ARTICLE VIII - C-1 VILLAGE DISTRICT**

**SECTION 200-33. USE REGULATIONS**

**A. USES PERMITTED BY RIGHT:**  
(1) BUSINESS OR PROFESSIONAL OFFICE

**SECTION 200-34 - AREA AND BULK REGULATIONS**

	REQUIRED	EXISTING	PROPOSED
LOT AREA (S.F.)		30,580	30,580
LOT AREA (AC)		0.702	0.702
AREA WITHIN FLOOD HAZARD DISTRICT (S.F.)		0	0
AREA WITHIN RIGHT OF WAYS (S.F.)		6,332	6,332
AREA WITHIN EASEMENTS (S.F.)		0	0
AREAS OF SLOPES IN EXCESS OF 25% (S.F.)		0	0
CALCULATED MINIMUM LOT AREA (NET LOT AREA) (S.F.)		24,248	24,248
CALCULATED MINIMUM LOT AREA (NET LOT AREA) (AC)		0.557	0.557
SECTION 200-34.B. MINIMUM LOT AREA (S.F.)	10,000	24,248	21,841
SECTION 200-34.C. MINIMUM LOT WIDTH (FT.)	100	195	195
SECTION 200-34.D. YARD REGULATIONS			
SECTION 200-34.D.(1) FRONT YARD (FT.)	20	28	20
SECTION 200-34.D.(2) SIDE YARDS (FT.)	10	67.116.5	66.903.0
SECTION 200-34.D.(3) REAR YARD (FT.)	40	44	57
SECTION 200-34.E. COVERAGE REGULATIONS			
SECTION 200-34.E.(1) MAXIMUM BUILDING COVERAGE	30%	12%	11%
SECTION 200-34.E.(2) MAXIMUM LOT COVERAGE	60%	28%	58%
SECTION 200-34.F. HEIGHT RESTRICTIONS (FT.)	35	<35	<35
SECTION 200-34.H. BUILDING SIZE RESTRICTION (S.F.)	6,000	<6,000	4,400

**PARKING REQUIREMENTS**

	REQUIRED	PROPOSED
SECTION 200-73.H. NONRESIDENTIAL PARKING REQUIREMENTS. OFFICE/BUSINESS SERVICES: 5 SPACES/1,000 S.F. OF GFA 4,400 S.F./1,000 X 5 = 22 SPACES	22 SPACES	22 SPACES
SECTION 200-73.D.(5)(a) HANDICAPPED SPACES REQUIRED: 1-25 TOTAL SPACES	1 SPACE	1 SPACE
	22 TOTAL SPACES	22 TOTAL SPACES

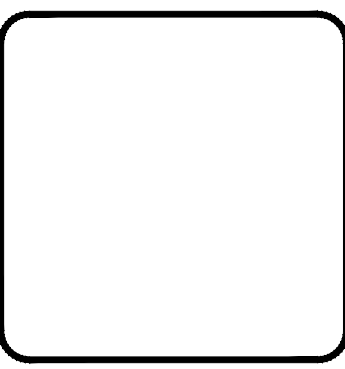
Sheet Number	Drawing Number	Sheet Title
01	C01.01	TITLE PLAN
02	C02.01	SITE ANALYSIS & IMPACT PLAN
03	C03.01	IMPROVEMENT CONSTRUCTION PLAN
04	C03.02	SIDEWALK ADA PLAN
05	C04.01	CONSERVATION PLAN
06	C05.01	PROFILE SHEET
07	C06.01	DETAIL SHEET
08	C06.02	DETAIL SHEET
09	C07.01	PCSM & O&M PLAN
10	C08.01	LIGHTING PLAN
11	C08.02	LIGHTING SPECIFICATIONS PLAN
12	C09.01	LANDSCAPE PLAN
13	C09.02	LANDSCAPE DETAILS



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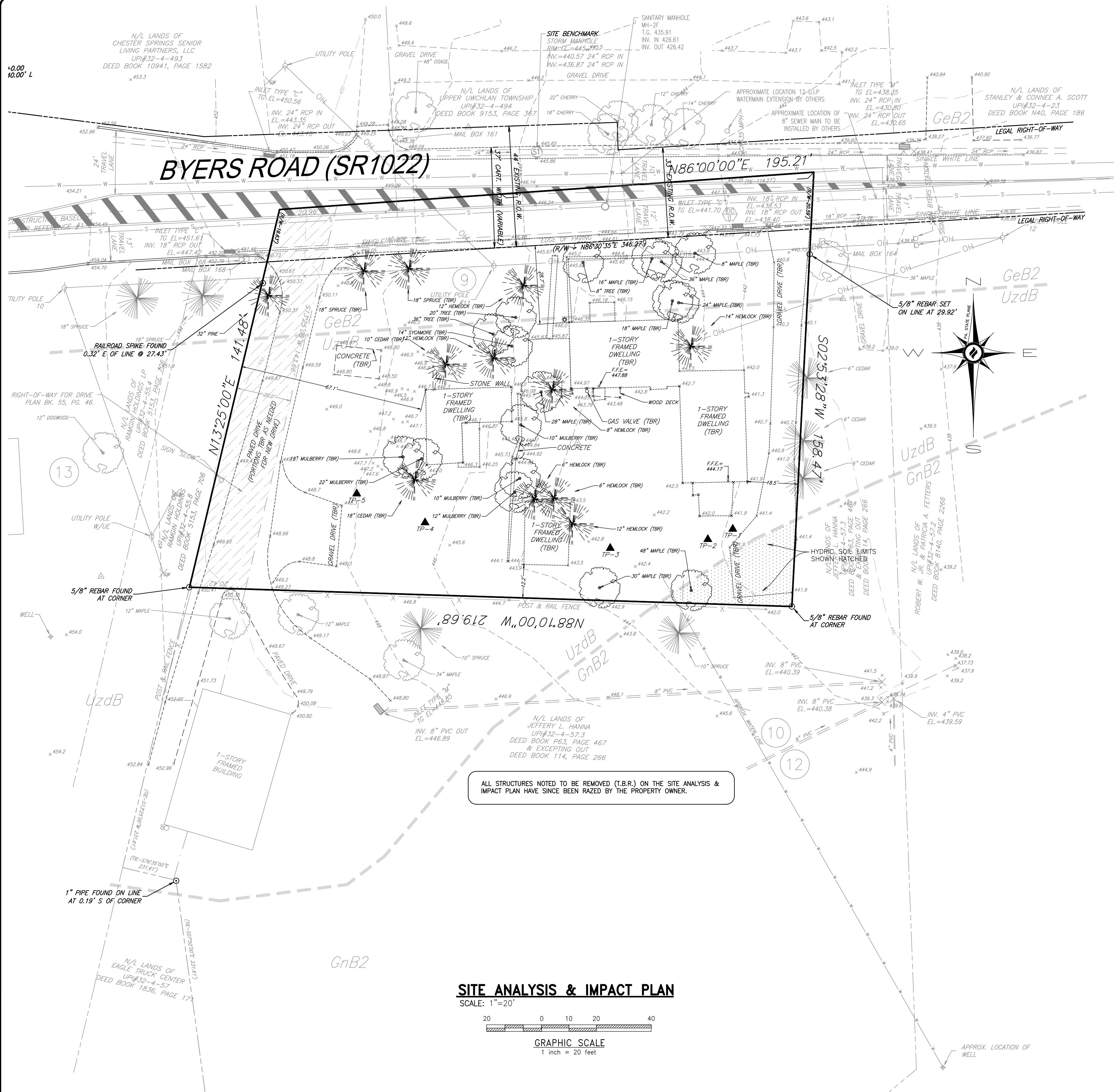
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2	08/04/23	REVISED PER TOWNSHIP REVIEW LETTERS
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4	08/04/23	REVISED PER TOWNSHIP REVIEW LETTERS
5	08/04/23	REVISED PER TOWNSHIP REVIEW LETTERS
6	08/04/23	REVISED PER TOWNSHIP REVIEW LETTERS
7	08/04/23	REVISED PER TOWNSHIP REVIEW LETTERS
8	08/04/23	REVISED PER TOWNSHIP REVIEW LETTERS

**PRELIMINARY/FINAL TITLE PLAN**

CURB: QBD VENTURES  
PROJECT: 164 BYERS ROAD PROPERTY  
LOCATION: UPPER UWCHLAN TOWNSHIP, CHESTER COUNTY, PA

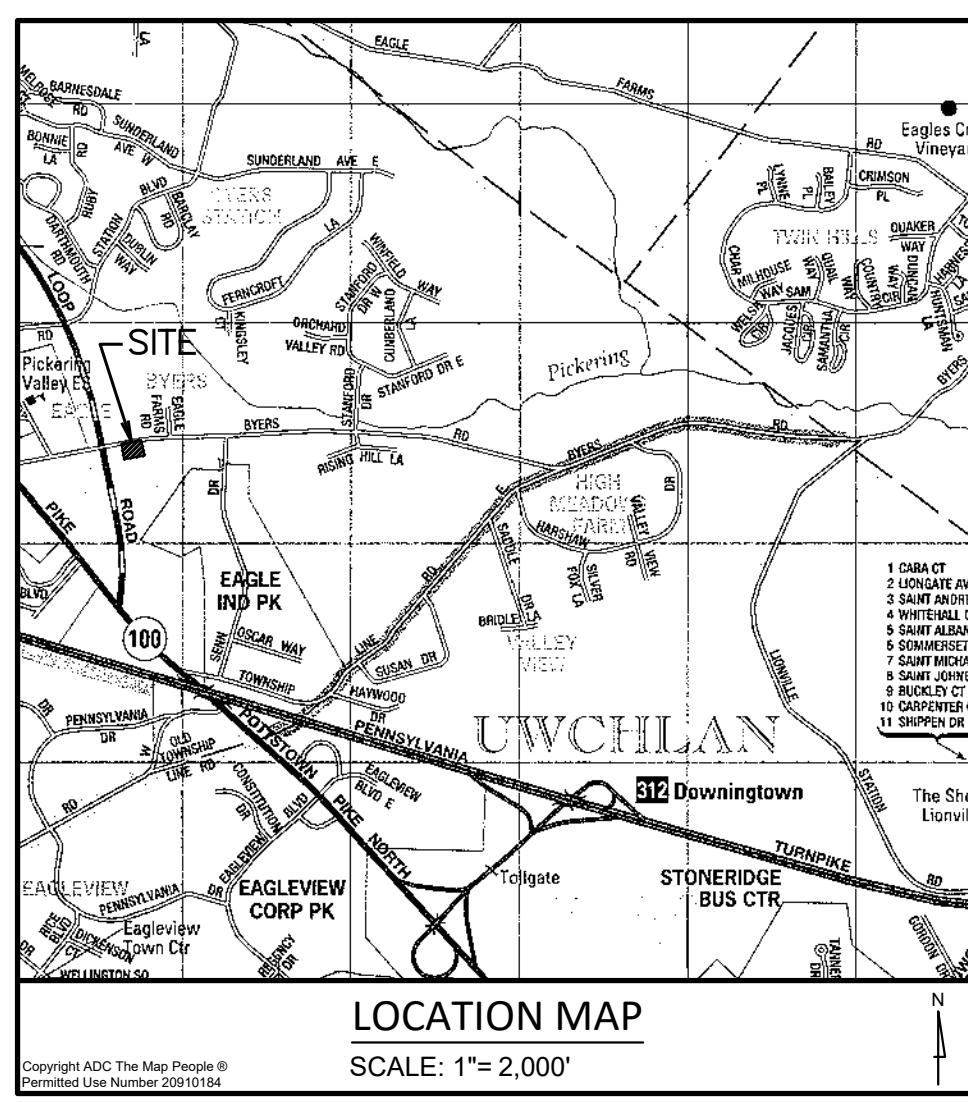
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SCALE:	1"=20'
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CHECKED BY:	DWG
PROJECT NO.:	2146
CAD FILE:	01 TITLE PLAN.dwg
PLOTTED:	08/04/23
DRAWING NO.:	C01.01
SHEET	01 of 13





LEGEND		LEGEND		LEGEND	
---	EX. PROPERTY LINE	---	EX. ELEC. LINE	---	EX. WATER LINE
---	PROP. PROPERTY LINE	---	EX. FENCE	---	PROP. WATER LINE
---	EX. RIGHT-OF-WAY	---	EX. MAIL BOX	---	PROP. WATER LATERAL
---	PROP. RIGHT-OF-WAY	---	EX. SIGN	---	PROP. FIRE WATER LINE
---	EX. MOVEMENT	---	EX. GUY ANCHOR	---	PROP. WATER VALVE
---	PROP. MONUMENT	---	EX. GAS LINE	---	EX. HYDRANT
---	EX. IRON PIPE	---	EX. CONC. CURB	---	PROP. HYDRANT
---	PROP. IRON PIPE	---	EX. CONC. CURB	---	PROP. MANHOLE
---	EX. EASEMENT	---	EX. TELE. LINE	---	15%-25% PRECAUTIONARY SLOPES
---	PROP. EASEMENT	---	PROP. TELE. LINE	---	25%+ PROHIBITIVE STEEP SLOPES
---	EX. WETLANDS	---	EX. ELEC. LINE	---	
---	EX. STORM INLET	---	EX. STORM INLET	---	
---	EX. STORM INLET ID	---	EX. STORM INLET ID	---	
---	EX. SEEPAGE BED	---	EX. SEEPAGE BED	---	
---	EX. SANITARY SEWER LINE	---	EX. SANITARY SEWER LINE	---	
---	PROP. SAN. SEWER LINE	---	PROP. SAN. SEWER LINE	---	
---	PROP. SAN. SEWER LATERAL	---	PROP. SAN. SEWER LATERAL	---	
---	PROP. SANITARY MH. ID	---	PROP. SANITARY MH. ID	---	
---	EX. WATER LINE	---	EX. WATER LINE	---	
---	TITLE REPORT NOTE	---	TITLE REPORT NOTE	---	

- GENERAL NOTES:**
- RECORD OWNER:  
OBD VENTURES  
2800 HORSESHOE TRAIL  
CHESTER SPRINGS, PA 10425
  - SOURCE OF TITLE: DEED BOOK 7525, PAGE 642
  - TAX PARCEL: 32-4-56
  - LOT AREA:  
GROSS: 30,580 SQ. FT. (0.702 ACRES)  
AREA WITHIN R/W: 3,865 SQ. FT. (0.089 ACRES)  
NET: 26,715 SQ. FT. (0.613 ACRES)
  - BOUNDARY INFORMATION SHOWN IS FROM FIELD SURVEY BY HOWELL KLINE SURVEYING, LLC. PERFORMED ON 2/19/09.
  - TOPOGRAPHIC INFORMATION SHOWN IS FROM FIELD SURVEY BY HOWELL KLINE SURVEYING, LLC. PERFORMED ON 2/19/09.
  - CONTOURS PLOTTED FROM FIELD RUN TOPOGRAPHIC SURVEY BY HOWELL KLINE SURVEYING, LLC. DATUM: APPROX. USGS. SITE: RIM OF STORM MANHOLE ACROSS FROM SITE, ELEVATION= 445.77' CONTOUR INTERVAL 2 FT.
  - UNDERGROUND UTILITIES SHOWN WERE PLOTTED FROM OBSERVABLE EVIDENCE AT THE TIME OF SURVEY AND INFORMATION FROM PLANS SUPPLIED BY UTILITY COMPANIES. NO GUARANTEE IS MADE THAT UNDERGROUND UTILITIES ARE ACCURATELY OR COMPLETELY SHOWN HEREON.
  - THE EXISTING LEGAL RIGHT-OF-WAY OF S.R. 1022 WAS TAKEN FROM PLAN ENTITLED, "HIGHWAY OCCUPANCY PERMIT PLANS, INTERSECTION OF BYERS ROAD (SR 1022) & EAGLE LOOP ROAD," PREPARED BY MCMAHON ASSOCIATES, INC., DATED 6/20/02, LAST REVISED 5/1/03.
  - THIS PROPERTY IS LOCATED WITHIN FLOOD HAZARD ZONE X, AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL FLOODPLAIN AS PER THE NATIONAL FLOOD INSURANCE RATE MAP FOR CHESTER COUNTY, PA. MAP NO. 42029C00089F, PANEL 95 OF 380, DATED SEPTEMBER 29, 2006. FLOOD PLAIN BOUNDARIES SHOWN HEREON WERE SCALED FROM THE ABOVE MENTIONED MAP.
  - SOILS INFORMATION PROVIDED BY PENN STATE COLLEGE OF AGRICULTURE COOPERATIVE EXTENSION, WITH SUPPORT FROM THE NATURAL RESOURCES CONSERVATION SERVICE. SOILS ATTRIBUTE DATA IS SERVED FROM THE NRCS SOIL DATA MART.
  - ALL OBSERVABLE EVIDENCE OF WELLS AND SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY BOUNDARY ARE SHOWN HEREON.
  - SITE IS TO BE SERVED BY EXISTING PRIVATE WATER.
  - SITE IS TO BE SERVED BY PRIVATE SANITARY SEWER. SANITARY SEWER WILL BE A PUMP AND HAUL SYSTEM UNTIL SUCH TIME AS PUBLIC SANITARY SEWER BECOMES AVAILABLE ON BYERS ROAD.
  - ALL LOT CORNERS TO BE SET WITH IRON PINS. " \* " INDICATES IRON PIN. CONCRETE MONUMENTS SHALL BE SET AT EACH CHANGE IN DIRECTION OF THE TRACT BOUNDARY. " \* " INDICATES MONUMENT. DEVELOPER WILL BE RESPONSIBLE FOR SETTING PROPERTY CORNERS AND MONUMENTATION PRIOR TO ANY HOUSE CONSTRUCTION ACTIVITIES. SEE DETAIL SHEET FOR FURTHER INFORMATION ON MONUMENTS.
  - ALL BUILDING MATERIALS AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL PROTECTION'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1 ET SEQ. AND 287.1 ET SEQ. NO BUILDING MATERIAL SHALL BE BURIED, DUMPED OR DISCHARGED FROM THE SITE.
  - A WETLANDS INVESTIGATION HAS BEEN PERFORMED AND HAS DETERMINED THAT NO WETLANDS EXIST ON THE SITE.
  - UPPER UWCHLAN TOWNSHIP SHALL HAVE THE RIGHT, BUT NOT THE OBLIGATION, THROUGH A BLANKET EASEMENT TO ENTER THE PROPERTY FOR ACCESS TO THE PROPOSED BMP'S FOR INSPECTION AND/OR MENTIONED PURPOSES.
  - ULTIMATE RIGHT-OF-WAY IS OFFERED FOR DEDICATION TO THE TOWNSHIP IN PERPETUITY AT NO COST TO THE TOWNSHIP.
  - LARGEST VEHICLE ANTICIPATED TO VISIT THE SITE IS A STANDARD BOX TYPE DELIVERY TRUCK.
  - ALL SIGHT DISTANCE OBSTRUCTIONS (INCLUDING BUT NOT LIMITED TO EMBANKMENTS AND VEGETATION) SHALL BE REMOVED BY THE PERMITTEE TO PROVIDE A MINIMUM OF 440 FEET OF LEFT SIGHT DISTANCE AND 350 FEET OF RIGHT SIGHT DISTANCE FOR A DRIVER EXITING THE PROPOSED LOCAL ROAD ONTO THE STATE HIGHWAY. THE DRIVER MUST BE CONSIDERED TO BE POSITIONED 10' FROM THE NEAR EDGE OF THE CLOSEST HIGHWAY THROUGH TRAVEL LANE (FROM THE CURBLINE IF CURBING IS PRESENT) AT AN EYE HEIGHT OF THREE FEET-SIX INCHES (3'-6") ABOVE THE PAVEMENT SURFACE LOCATED IN THE CENTER OF THE CLOSEST HIGHWAY TRAVEL LANE DESIGNATED FOR USE BY APPROACHING TRAFFIC. THIS SIGHT DISTANCE SHALL BE MAINTAINED BY THE PERMITTEE.
  - AN AS-BUILT SURVEY OF ALL STORMWATER BMP'S AND AN EXPLANATION OF ANY DISCREPANCIES WITH THE OPERATION AND MAINTENANCE PLAN SHALL BE PROVIDED TO UPPER UWCHLAN TOWNSHIP.
  - IF SUBJECT PROPERTY OR THE ADJACENT PROPERTIES THAT SHARE THE PROPOSED ACCESS EVER REDEVELOP OR CHANGE USE, THESE PROPERTIES WILL BE RESPONSIBLE FOR ANY MODIFICATIONS TO THE ACCESS IF NEEDED.



- TITLE REPORT NOTES**
- This survey was performed utilizing a Commitment for Title Insurance prepared by Land America Lawyers, Case Number L31173, Policy Number C70-000817, effective date September 22, 2008. Name of the insured is OBD Ventures, a PA General Partnership, and the land referred to in this policy is described as 164 Byers Road, Uwchlan, PA 19480. Schedule B-Section 2 of said Commitment contains the following survey related matters (Item numbers correspond to the Title Commitment numbers.)
- Rights of the public and other entitled thereto in and to the use of that portion of the premises within the bounds of Byers Road (L.R. 15142). (Right-of-way of SR 1022 plotted hereon.)
  - Rights granted to Philadelphia Electric Company in Miscellaneous Deed Book 86, Page 509, and Miscellaneous Deed Book 173, Page 660. (Documents describes the right to install electric utilities immediately outside the legal Right-of-Way limits of Byers Road. Observable evidence of electric lines and utility poles located along Byers Road are shown hereon.)
  - Water rights as set forth in Miscellaneous Deed Book 119, Page 583. (Document describes the right to access and use a well located across UP# 32-4-57.3. Approximate location scaled from reference plan #3 show hereon, no observable evidence of well or water line at time of survey.)
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  - Reservations as set forth in Instrument recorded in Deed Book E-43, Page 50. (Documents describes a 20' wide access easement for UP#32-4-57.3 and UP#32-4-57, plotted hereon.)

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COMMONWEALTH OF PENNSYLVANIA  
REGISTERED PROFESSIONAL ENGINEER  
DAVID W. GIBBONS  
P.E. 6076444

REV.	DATE	DESCRIPTION
1	08/01/23	REMOVED PER TOWNSHIP REVIEW LETTERS
2	08/04/23	REMOVED PER TOWNSHIP REVIEW LETTERS
3		
4		
5		
6		
7		
8		

PRELIMINARY/FINAL

**SITE ANALYSIS & IMPACT PLAN**

CURB: OBD VENTURES  
PROJECT: BYERS ROAD PROPERTY  
LOCATION: 164 BYERS ROAD  
UPPER UWCHLAN TOWNSHIP, CHESTER COUNTY, PA

DATE: 12/21/20

SCALE: 1"=20'

DRAWN BY: AM

CHECKED BY: DWG

PROJECT NO: 2146

CAD FILE: 02 SITE ANALYSIS & IMPACT PLAN.dwg

PLOTTED: 08/04/23

DRAWING NO: C02.01

SHEET 02 of 13

# SITE ANALYSIS NARRATIVE

EXISTING LAND USE IS CHARACTERIZED AS GENERALLY DEVELOPED. THERE ARE THREE EXISTING DWELLINGS AND SEVERAL AUXILIARY STRUCTURES, DRIVEWAYS, WALLS, AND PADS. THE REMAINDER OF THE PROPERTY DESIGNATED AS MEADOW AND TREES. THE SITE IS PROPOSED TO BE DEVELOPED IN ACCORDANCE WITH THE ZONE C-1 INDUSTRIAL DISTRICT REQUIREMENTS PROVIDED IN THE UPPER UWCHLAN TOWNSHIP ZONING ORDINANCE.

A TOPOGRAPHIC HIGH POINT ORIGINATES ALONG THE WESTERN PROPERTY LINE AND CONTINUES IN A EASTERLY DIRECTION ACROSS THE ENTIRE PROPERTY. TOPOGRAPHY ON THE ENTIRE PROPERTY IS CHARACTERIZED AS GENTLY SLOPED. STORMWATER RUNOFF GENERATED BY THE PROPERTY FLOWS IN A EASTERLY DIRECTION BEFORE IT IS COLLECTED BY THE STORMWATER COLLECTION STRUCTURES AND ROUTES THROUGH A PROPOSED PIPE STORAGE FACILITY. THIS IS THEN DISCHARGED INTO THE BYERS ROAD CONVEYANCE SYSTEM.

PER PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, 25 PA. CODE, §39.0 "WATER QUALITY STANDARDS" THE PICKERING CREEK WITHIN UPPER UWCHLAN TOWNSHIP IS CLASSIFIED AS HIGH QUALITY (HQ) TROUT STOCKING FISHES (TSF) AND MIGRATORY FISHES (MF).

SITE SOILS HAVE BEEN IDENTIFIED BY THE SOILS INFORMATION PROVIDED BY PENN STATE COLLEGE OF AGRICULTURE COOPERATIVE EXTENSION, WITH SUPPORT FROM THE NATURAL RESOURCES CONSERVATION SERVICE. SOILS ATTRIBUTE DATA IS SERVED FROM THE NRCS SOIL DATA MART. THREE (3) SOIL TYPES ARE RECORDED WITHIN THE PROJECT AREA:

- GLENNVILLE SILT LOAM (GeB2) 3 TO 8 PERCENT SLOPES,
- GLENNVILLE SILT LOAM (GnB2) 3 TO 8 PERCENT SLOPES, MODERATELY ERODED,
- URBAN LAND-UDORTHENT'S SCHIST AND GNEISS COMPLEX (UzdB) 0 TO 8 PERCENT SLOPES.

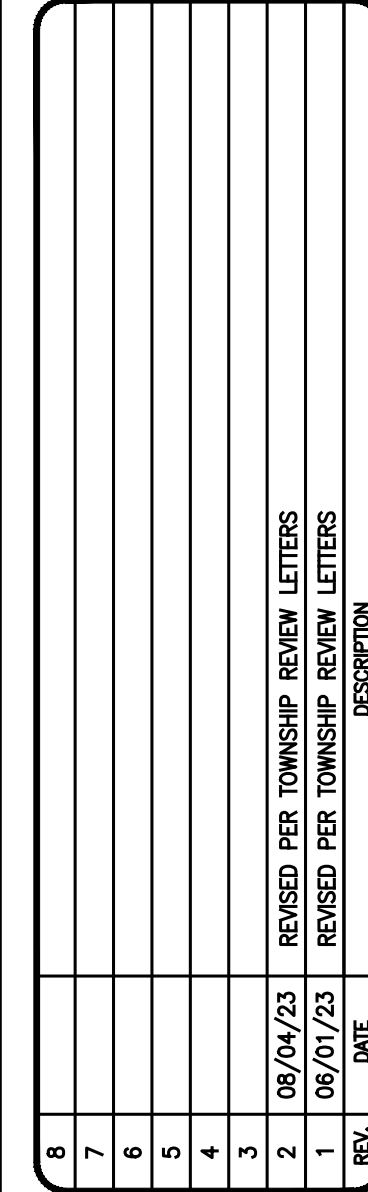
GLENNVILLE SILT LOAM IS DEFINED AS A HYDRIC SOIL (SHOWN HATCHED). A PORTION OF THE HYDRIC SOIL IS CURRENTLY UTILIZED AS A GRAVEL DRIVEWAY AREA. IN THE PROPOSED CONDITION, A PORTION OF THE HYDRIC SOIL WILL BE USED AS A PAVED PARKING AREA. A RETAINING WALL WILL ALSO BE CONSTRUCTED WITHIN THIS SOIL TYPE.

CHARACTERISTICS THAT AFFECT VERTICAL ALIGNMENT FOR HIGHWAYS		CHARACTERISTICS THAT AFFECT: INFILTRATION OF WATER FROM SEPTIC TANKS		CONSTRUCTION & MAINTENANCE OF PIPELINES		DRAKES & LEAKS		FARM PONDS/RESERVOIR AREA		FARM PONDS EMBANKMENT		AGRICULTURAL DRAINAGE		IRRIGATION		TERRACES & OVERSOWS		WATERWAYS		BUILDING SITES		PRIME AGRICULTURAL SOIL	
SUITABILITY AS SOURCE OF SAND & GRAVEL		MATERIALS	DRAINAGE																				
UNSATURABLE	----	SEASONAL, HIGH WATER TABLE	CLAYPAN	FLUCTUATING WATER TABLE	INSTABILITY	PERMEABLE SUBSTRATUM	PERMEABLE SUBSTRATUM	PERMEABLE	----	HIGH WATER TABLE: SEEPS	LOW WATER HOLDING CAPACITY	----	----	----	----	----	----	GROUP 5	YES				
UNSATURABLE	----	SEASONAL, HIGH WATER TABLE	CLAYPAN	FLUCTUATING WATER TABLE	INSTABILITY	PERMEABLE SUBSTRATUM	PERMEABLE SUBSTRATUM	PERMEABLE	----	HIGH WATER TABLE: SEEPS	LOW WATER HOLDING CAPACITY	----	----	----	----	----	----	GROUP 10	YES				
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	





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West Chester, PA 19380  
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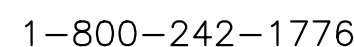
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CHECKED BY:	DWG
PROJECT NO.:	2146
CAD FILE:	03 IMPROVEMENT CONSTRUCTION PLAN.dwg
PLOTTED:	08/04/23
DRAWING NO.:	C03.01
SHEET	03 OF 13

_____	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
<b>[242]</b>	PROPOSED CONTOUR
X 12.500	EXISTING SPOT ELEV.
X 123.80	NEW SPOT ELEV.
<b>GLEB2</b>	SOILS TYPE
	SOILS LINE
=====	EX. CONC. CURB
=====	PROP. CONC. CURB
=====	EX. EDGE OF PAVING
=====	PROP. EDGE OF PAVING
⊥	EX. LIGHT POLE
⊥	PROP. LIGHT POLE
—X—	EX. FENCE
M83	EX. MAIL BOX
—T—	EX. SIGN
—T—	PROP. SIGN
④	EXIST. PARKING SPACES
④	PROP. PARKING SPACES
(TBR)	TO BE REMOVED
—T—	EX. TELE. LINE
—T—	PROP. TELE. LINE
—E—	EX. ELEC. LINE
—E—	PROP. ELEC. LINE
—○—	EX. UTILITY POLE
—○—	PROP. UTILITY POLE
⊙	EX. GUY ANCHOR
—G—	EX. GAS LINE
—G—	PROP. GAS LINE
G.V. 104	EX. GAS VALVE
G.V. 104	PROP. GAS VALVE
=====	EX. STORM SEWER LINE
=====	PROP. STORM SEWER LINE
=====	EX. STORM INLET
=====	PROP. STORM INLET
=====	EX. STORM INLET ID
=====	PROP. SEEPAGE BED
—S—	EX. SANITARY SEWER LINE
—S—	PROP. SAN. SEWER LINE
—L—	EX. SAN. SEWER LATERAL
—L—	PROP. SANITARY MH. ID
—W—	EX. WATER LINE
—W—	PROP. WATER LINE
—WL—	PROP. WATER LATERAL
—FW—	PROP. FIRE WATER LINE
W.V. 200	EX. WATER VALVE
W.V. 200	PROP. WATER VALVE
H20	EX. HYDRANT
H20	PROP. HYDRANT
MH 3	EX. MANHOLE
MH 3	PROP. MANHOLE

1. 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.
2. 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.
3. 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.
4. 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 THE 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.
5. ALL SITE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE LOCAL, COUNTY, STATE AND FEDERAL STATUTES AND REGULATIONS.
6. 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).
7. SCALED DIMENSIONS FROM THIS PLAN SHALL NOT BE USED FOR CONSTRUCTION WITHOUT CONFIRMATION FROM D.L. HOWELL & ASSOCIATES, INC..
8. IF ANY UNSUITABLE SOIL IS ENCOUNTERED DURING EXCAVATION, THE CONTRACTOR SHALL REMOVE IT AND REPLACE IT WITH COMPACTED STRUCTURAL MATERIAL.
9. 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.
10. IF CONDITIONS IN THE FIELD DIFFER FROM THOSE SHOWN ON THE PLAN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED TRAFFIC CONTROL, SHEETING, SHORING AND BARRICADING OF OPEN EXCAVATIONS.
12. ALL MATERIALS AND METHODS OF CONSTRUCTION FOR STORMWATER FACILITIES AND SEEDING AND MULCHING SHALL CONFORM TO PENNDOT FORM 408 SPECIFICATIONS, 1994.
13. ALL INLETS, MANHOLES AND ASSEMBLIES SHALL BE PRECAST CONCRETE.
14. 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.
15. 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.
16. ALL INLETS SHALL BE CONSTRUCTED FLUSH WITH THE BINDER COURSE.
17. ALL CURBING, CONCRETE OR PAVING TO BE REMOVED SHALL BE SAW CUT FIRST TO ENSURE A CLEAN SEPARATION FROM EXISTING MATERIAL.
18. ANY PAVING DAMAGED DURING CONSTRUCTION ACTIVITIES SHALL BE REMOVED TO SUBGRADE AND REPLACED WITH THE FULL PAVING SECTION.
19. WHERE ALL NEW BITUMINOUS PAVING MEETS EXISTING BITUMINOUS A HOT BITUMINOUS SEALANT SHALL BE POURED ALONG THE SAW CUT JOINT.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER REMOVAL, REPLACEMENT, AND MAINTENANCE OF ALL EXISTING UNDERGROUND DRAINAGE DURING CONSTRUCTION. THIS INCLUDES PROPERLY STORM MATERIAL TO BE REUSED, PRUNING WHERE REQUIRED AND PROTECTING EXISTING ROOT STRUCTURES OF TREES WHERE CONSTRUCTION OCCURS WITHIN THE DRIP LINE.
21. 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.
22. IN ANY AREA SUBJECT TO VEHICULAR ACTIVITY DURING CONSTRUCTION, A 3 FOOT MINIMUM COVER SHALL BE MAINTAINED FOR ALL UNDERGROUND UTILITIES EXCEPT STORM SEWERS.

1. THE 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.
2. INLETS, MANHOLES, COVERS AND FRAMES SHALL CONFORM TO PENNSYLVANIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
3. DURING CONSTRUCTION ALL STORMWATER CONVEYANCE PIPING SHALL MAINTAIN A MINIMUM OF 12 INCHES OF COVER AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS' SPECIFICATIONS.

Pennsylvania One Call System, Inc.



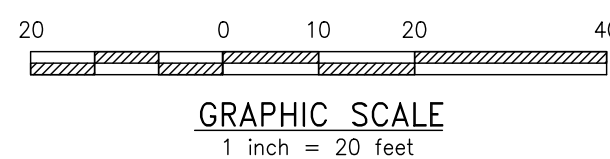
PROPOSED 12 STORY  
BUILDING W/ CELLAR

2,200 S.F. FOOTPRINT  
4,400 S.F. FLOOR AREA  
2,200 S.F. CELLAR  
FF = 448.80

Setbacks and Easements:  
 - 10.0' (multiple locations)  
 - 2.00' (multiple locations)  
 - 5' (multiple locations)  
 - 3.15' (multiple locations)  
 - 1.75' (multiple locations)  
 - 1.00' (multiple locations)

Streets and Surrounding Features:  
 - 42nd, 43rd, 44th, 45th  
 - 014  
 - 009  
 - 048  
 - 045  
 - 040

SCALE: 1"=20'



ACT 287 SERIAL NUMBER 20092592101  
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 & Assoc., 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.

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

[illegible]

**ENTERING SITE FROM EAST**

[illegible]

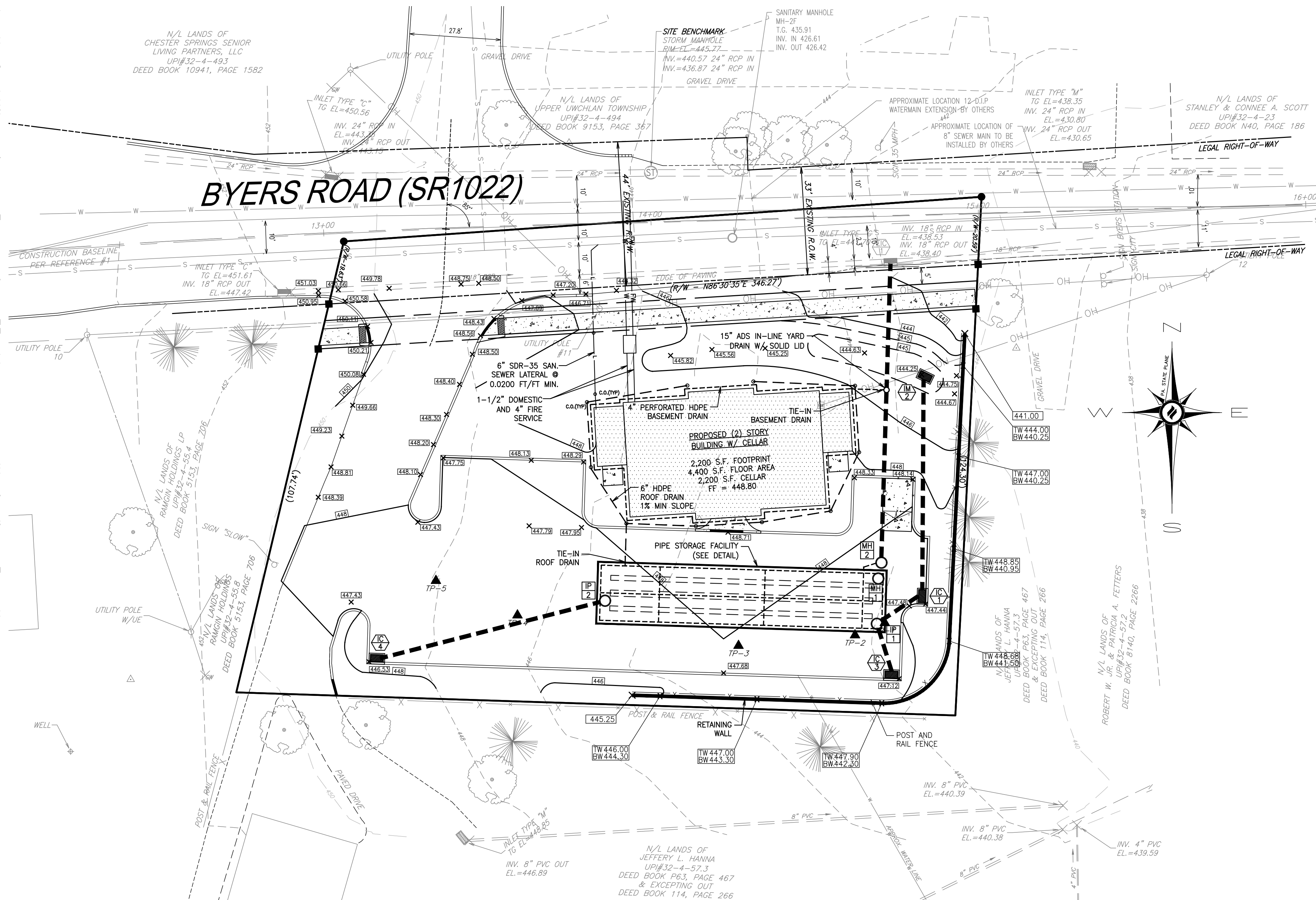
### ENTERING SITE FROM WEST

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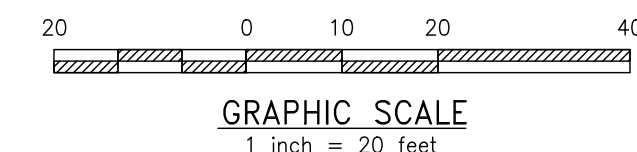
**EXITING SITE HEADED EAST**

[illegible]

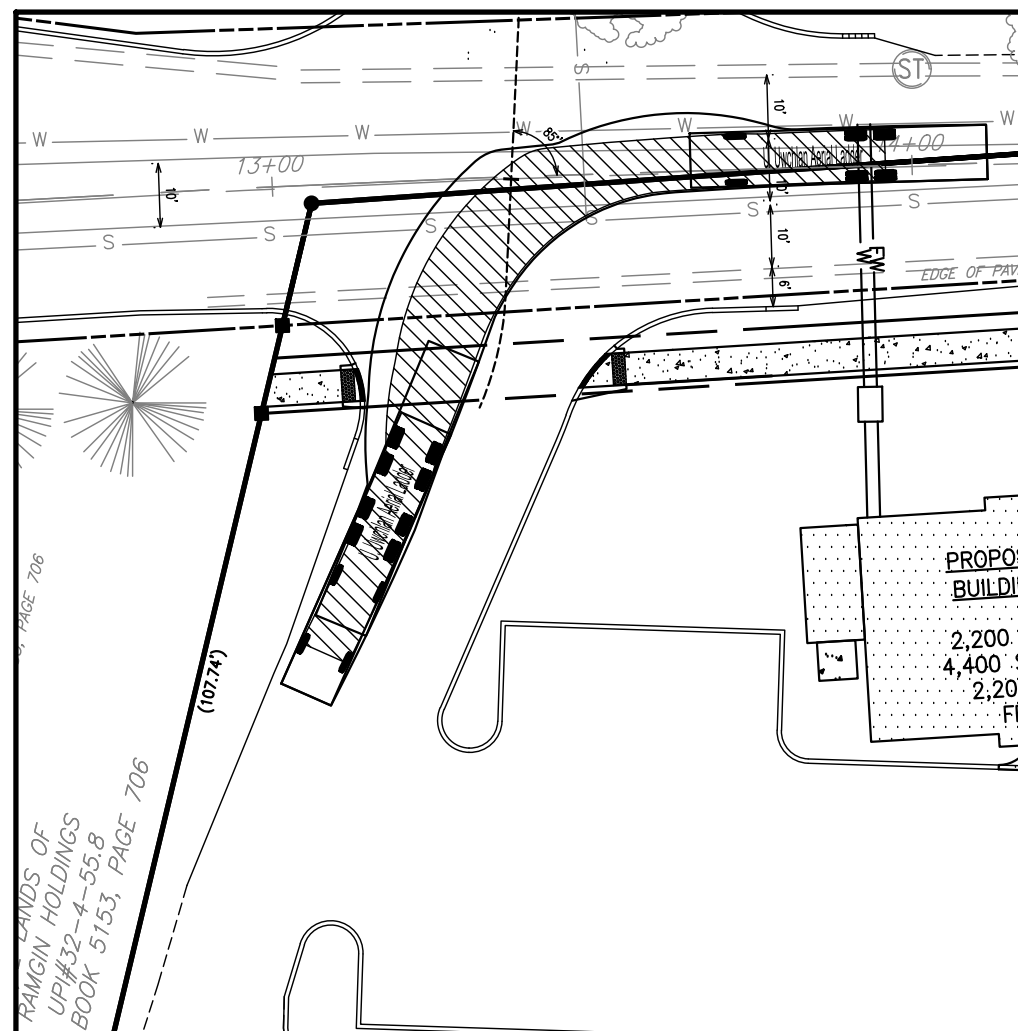
**EXITING SITE HEADED WEST**



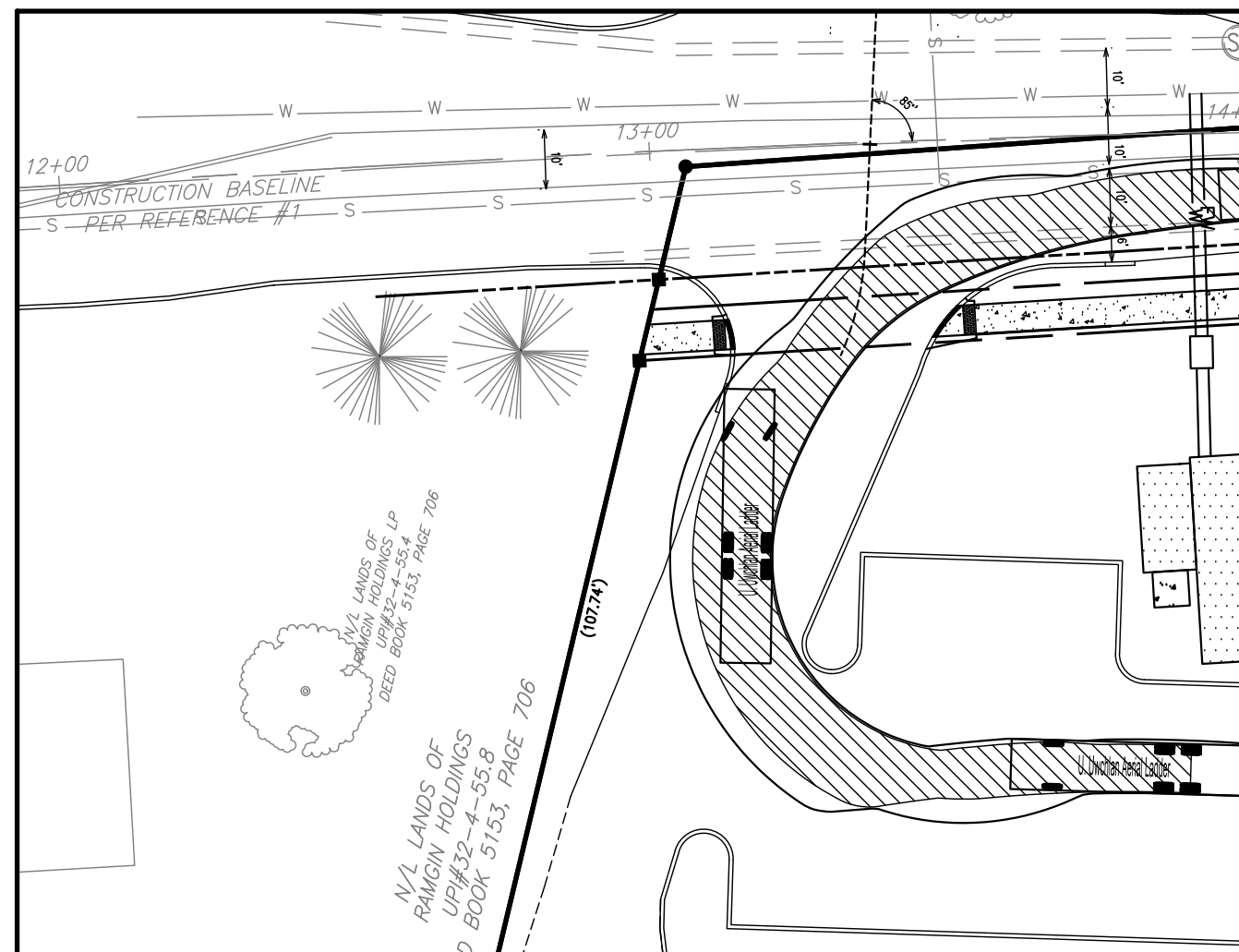
SCALE: 1"=20'



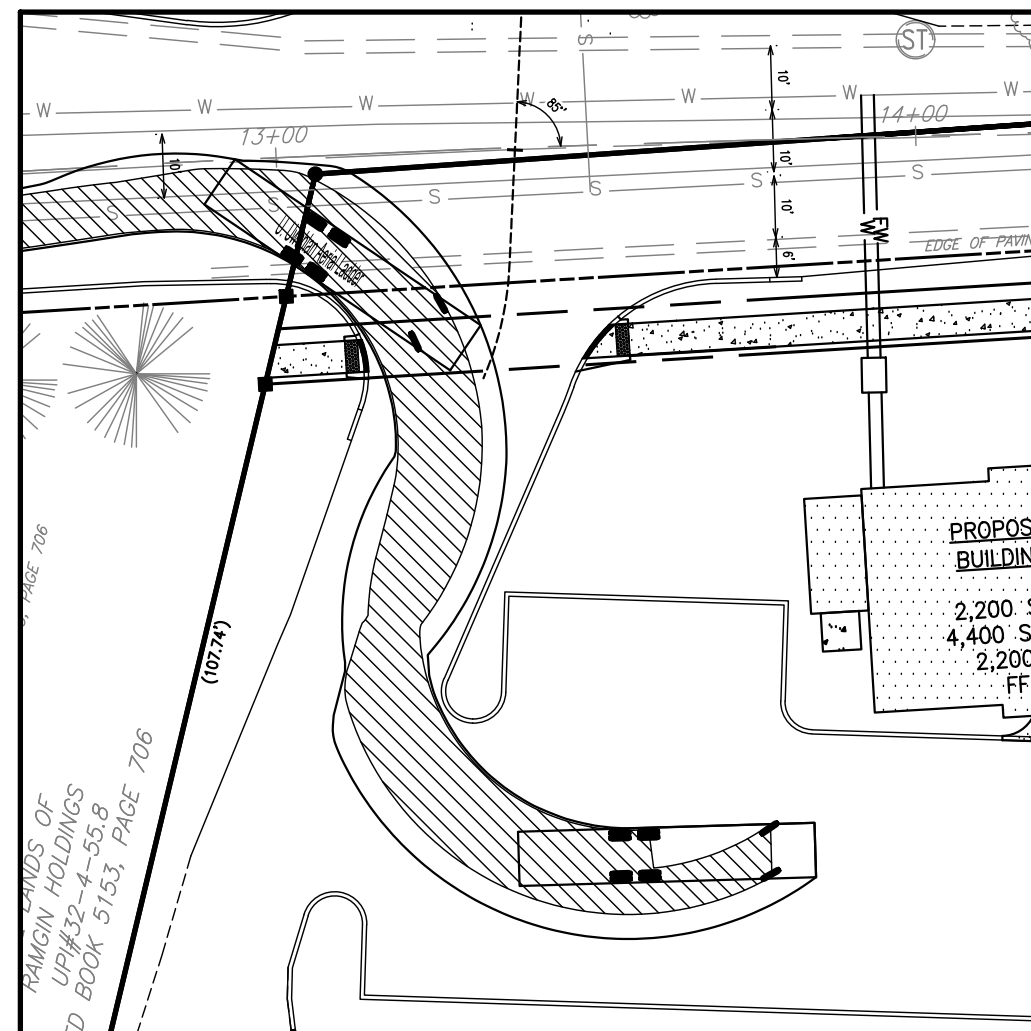
SCALE: 1"=30'



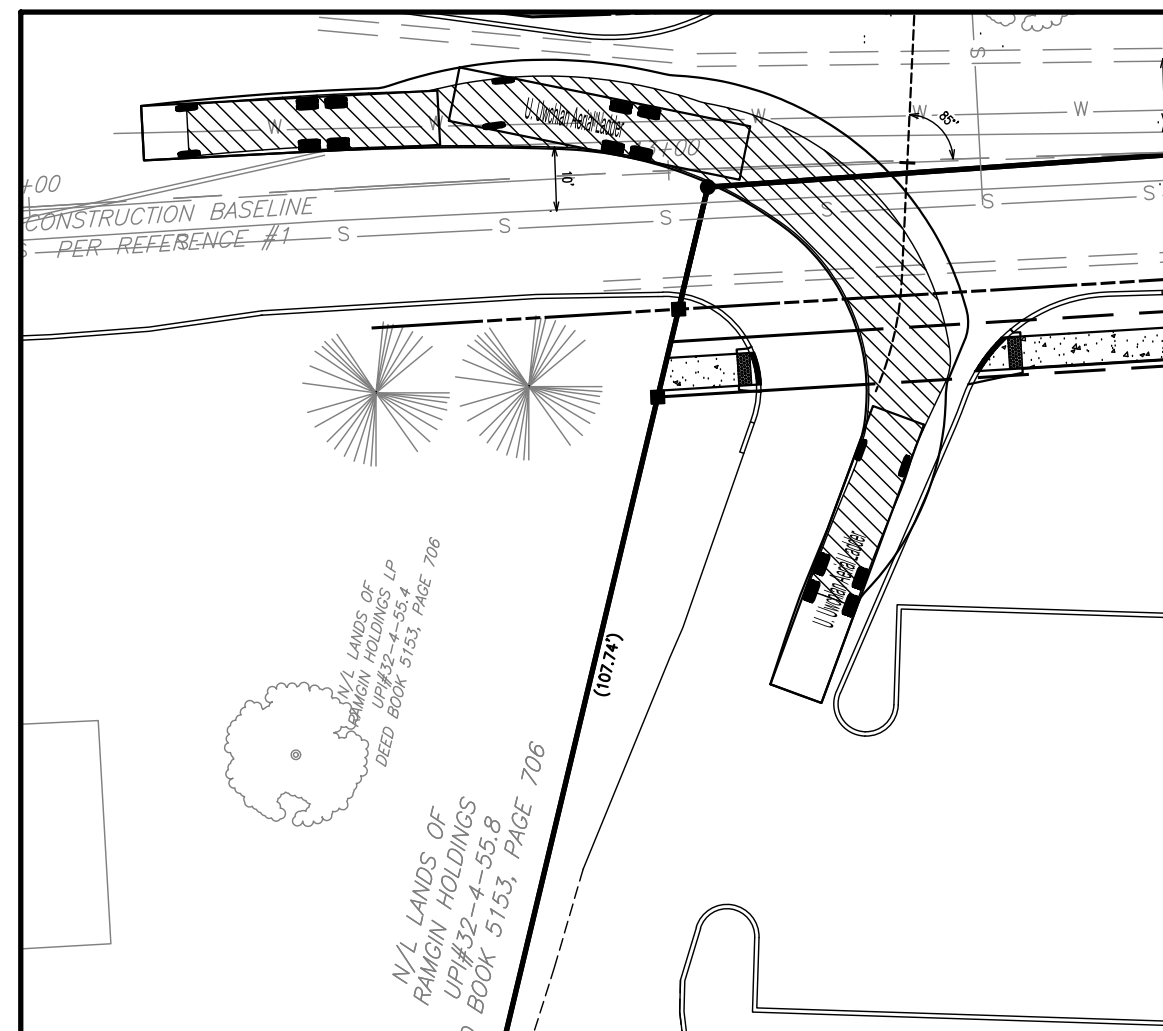
**ENTERING SITE FROM EAST**



### ENTERING SITE FROM WEST



**EXITING SITE HEADED EAST**



**EXITING SITE HEADED WEST**





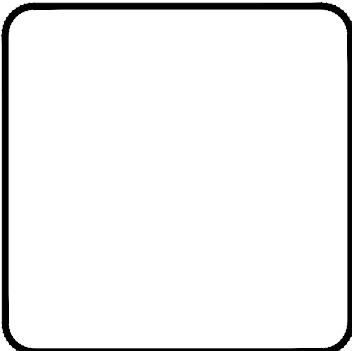
**SIDEWALK ADA PLAN**  
SCALE: 1" = 2'



**DLHowell**

Civil Engineering  
Land Planning  
Environmental  
www.DLHowell.com

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



REV.	DATE	DESCRIPTION
8		
7		
6		
5		
4		
3	08/04/23	REMOVED PER TOWNSHIP REVIEW LETTERS
2	06/01/23	REMOVED PER TOWNSHIP REVIEW LETTERS
1		

PRELIMINARY/FINAL SIDEWALK ADA PLAN
CLIENT: QBD VENTURES PROJECT: BYERS ROAD PROPERTY LOCATION: 164 BYERS ROAD UPPER MERIDIAN TOWNSHIP, CHESTER COUNTY, PA

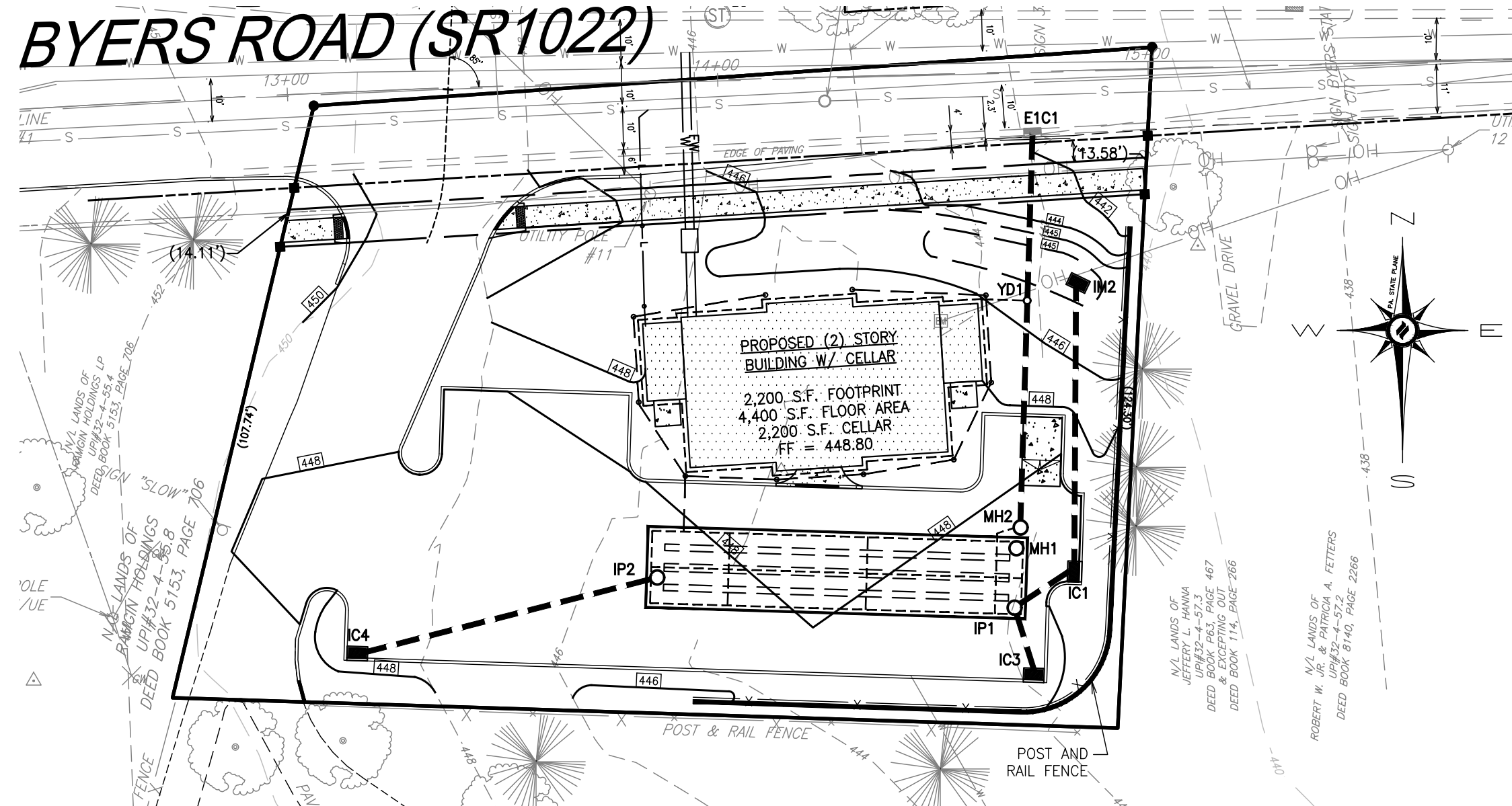
DATE:	12/21/20
SCALE:	1"=2'
DRAWN BY:	AM
CHECKED BY:	DWG
PROJECT NO.:	2146
CAD FILE:	03 IMPROVEMENT CONSTRUCTION PLAN.dwg
PLOTTED:	06/04/23
DRAWING NO.:	C03.02
SHEET	04 OF 13





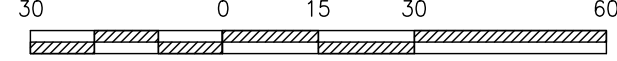


BYERS ROAD (SR1022)



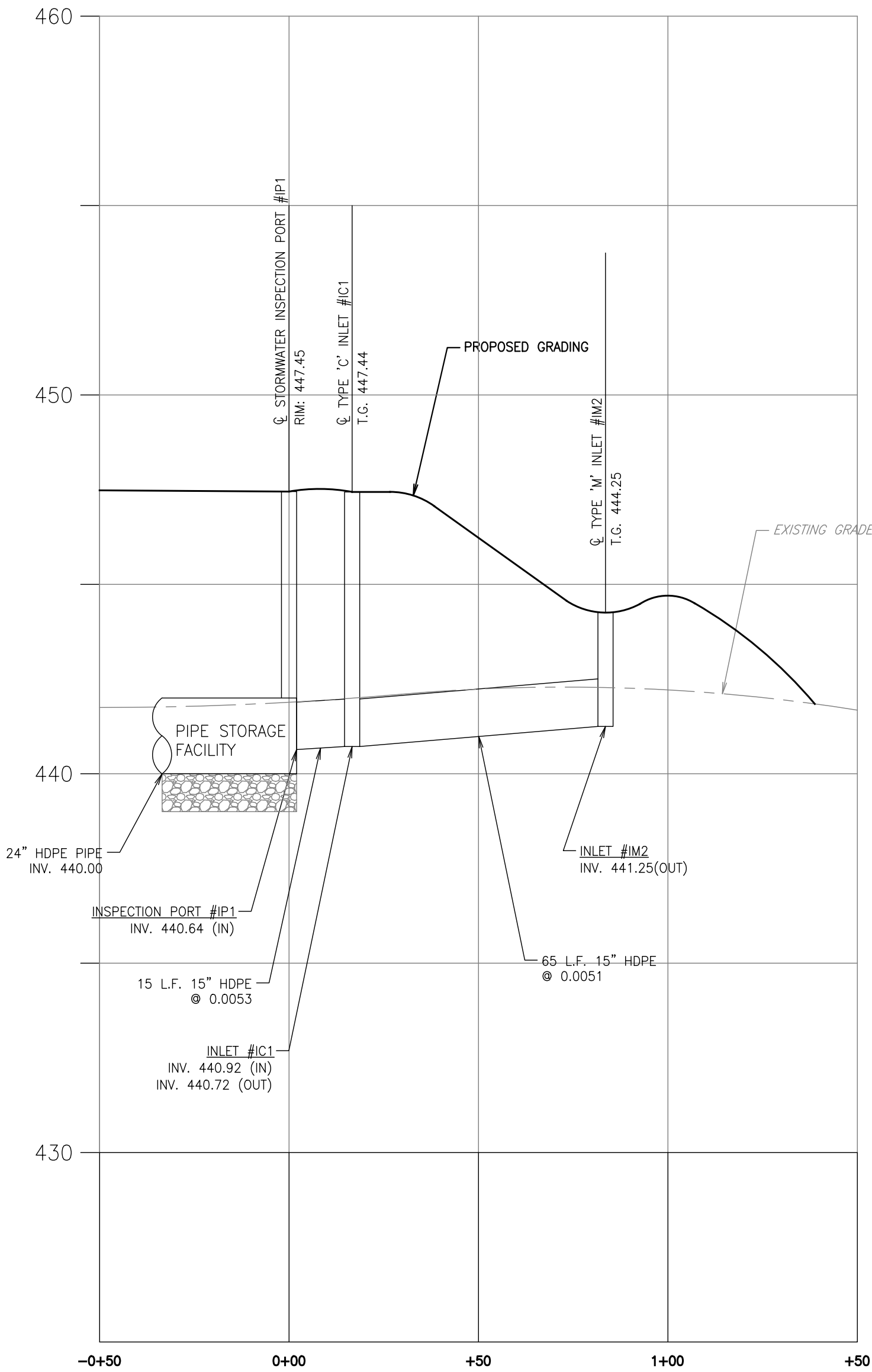
PLAN VIEW

SCALE: 1"=30'



GRAPHIC SCALE

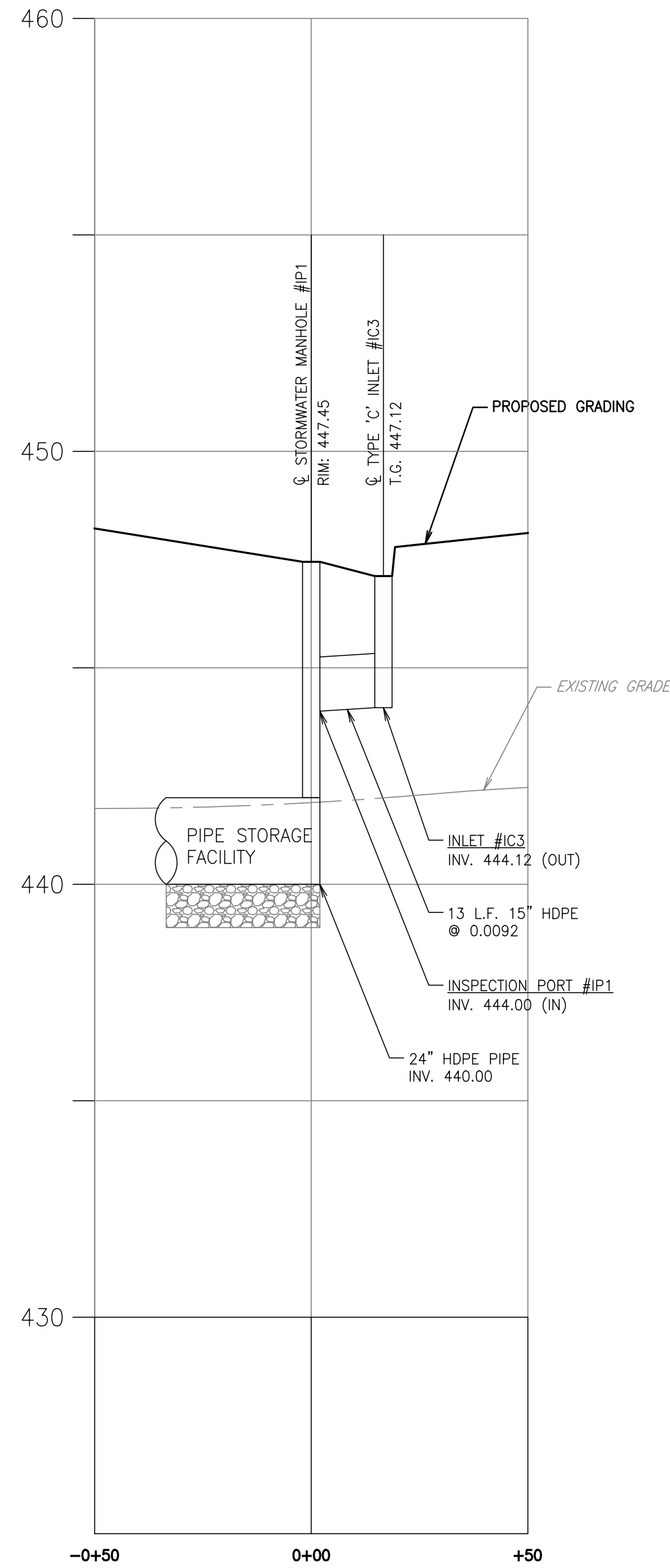
1 inch = 30 feet



STORM SEWER PROFILE - IM2 TO MH1

HORIZ SCALE: 1"=30'

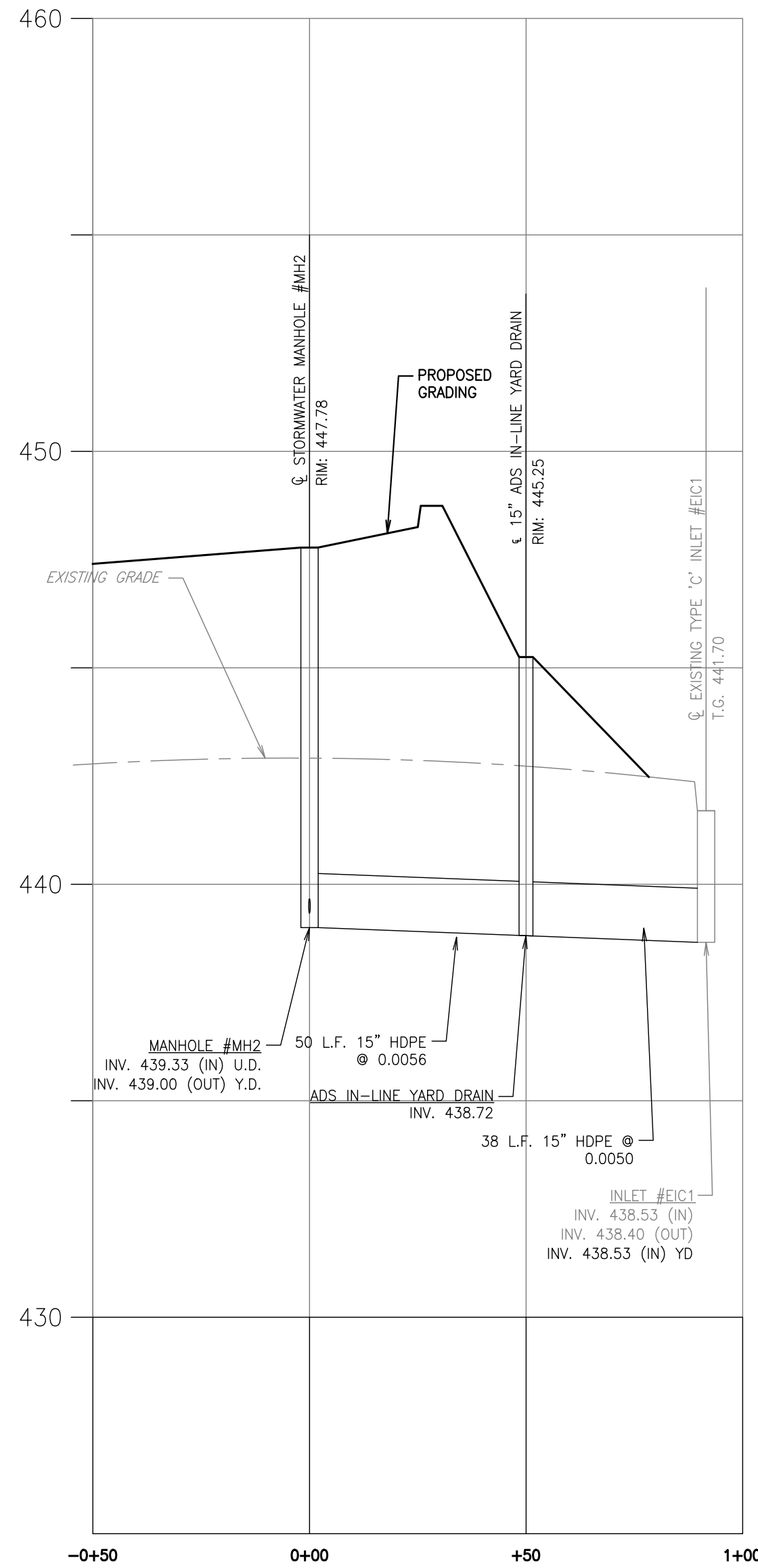
VERT SCALE: 1"=3"



STORM SEWER PROFILE - IC3 TO MH1

HORIZ SCALE: 1"=30'

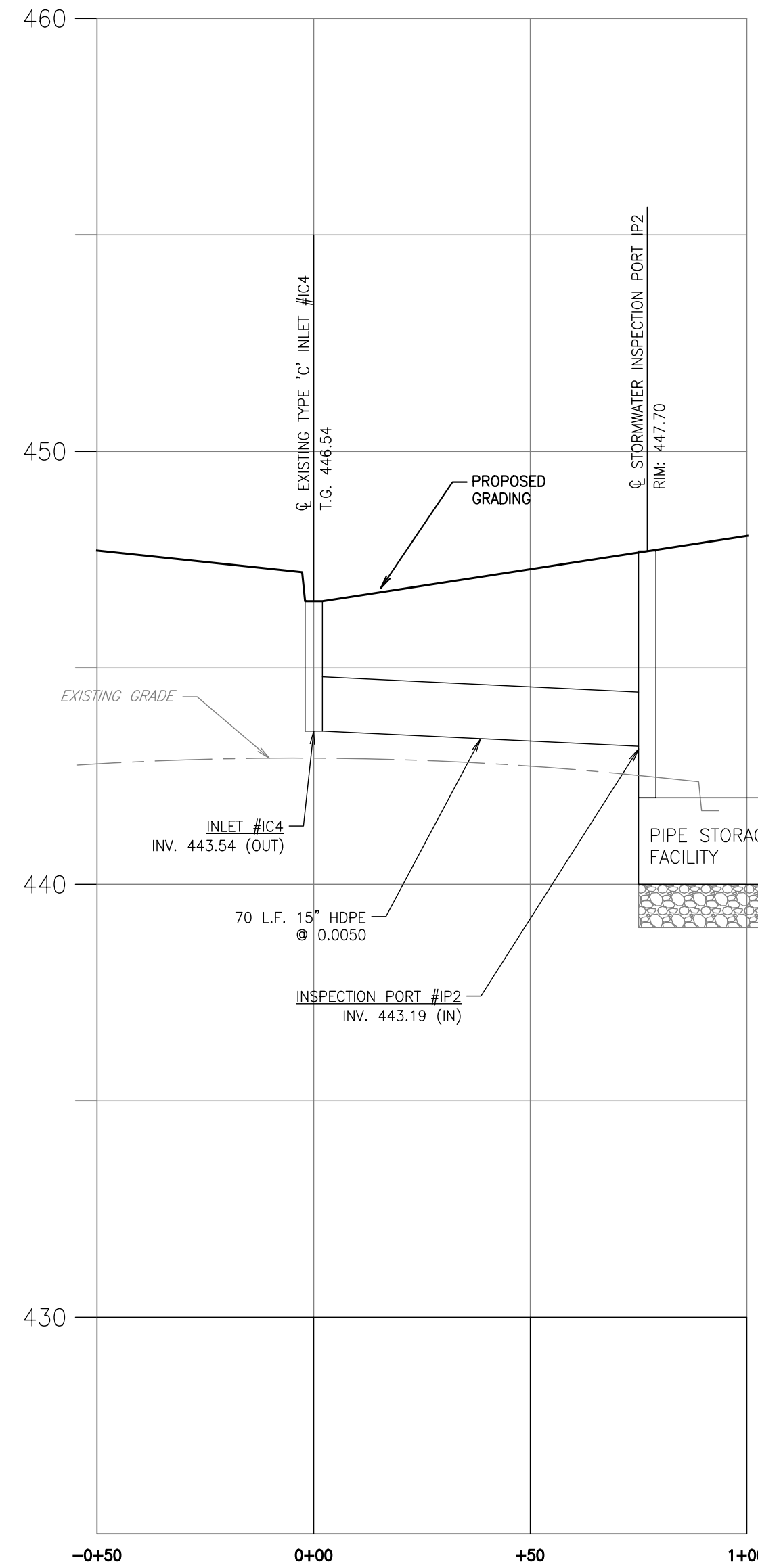
VERT SCALE: 1"=3"



STORM SEWER PROFILE - MH4 TO EIC1

HORIZ SCALE: 1"=50'

VERT SCALE: 1"=5"



STORM SEWER PROFILE - IC4 TO MH2

HORIZ SCALE: 1"=30'

VERT SCALE: 1"=3"

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

ACT 287 SERIAL NUMBER 20092592101  
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 & Assoc., 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

LEGEND

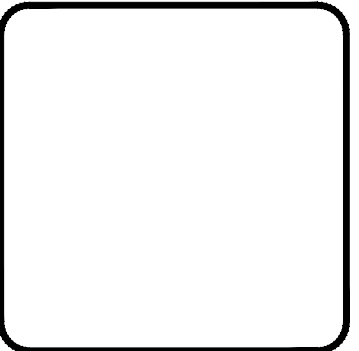
EX. PROPERTY LINE	EXISTING CONTOUR	EX. FENCE	PROP. ELEC. LINE	PROP. STORM INLET	PROP. WATER LINE
PROP. PROPERTY LINE	PROPOSED CONTOUR	EX. MAIL BOX	EX. UTILITY POLE	PROP. STORM INLET ID	PROP. WATER LATERAL
EX. RIGHT-OF-WAY	EXISTING SPOT ELEV.	EX. SIGN	PROP. UTILITY POLE	PROP. SEEPAGE BED	PROP. FIRE WATER LINE
PROP. RIGHT-OF-WAY	NEW SPOT ELEV.	EX. SIGN	EX. GUY ANCHOR	PROP. SEEPAGE BED	EX. WATER VALVE
EX. MONUMENT	SOILS TYPE	EX. SIGN	PROP. GAS LINE	EX. SANITARY SEWER LINE	EX. WATER VALVE
PROP. MONUMENT	EX. CONC. CURB	EX. SIGN	EX. GAS VALVE	PROP. SAN. SEWER LINE	EX. HYDRANT
EX. IRON PIPE	PROP. CONC. CURB	EX. SIGN	EX. STORM SEWER LINE	PROP. SAN. SEWER LATERAL	PROP. HYDRANT
PROP. IRON PIPE	EX. EDGE OF PAVING	EX. TELE. LINE	PROP. STORM SEWER LINE	PROP. SANITARY MH. ID	EX. MANHOLE
EX. EASEMENT	EX. LIGHT POLE	EX. ELEC. LINE	EX. STORM INLET	EX. WATER LINE	PROP. MANHOLE
PROP. EASEMENT					15%-25% PRECAUTIONARY SLOPES
EX. WETLANDS					25%+ PROHIBITIVE STEEP SLOPES



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Fax: (610) 918-9003

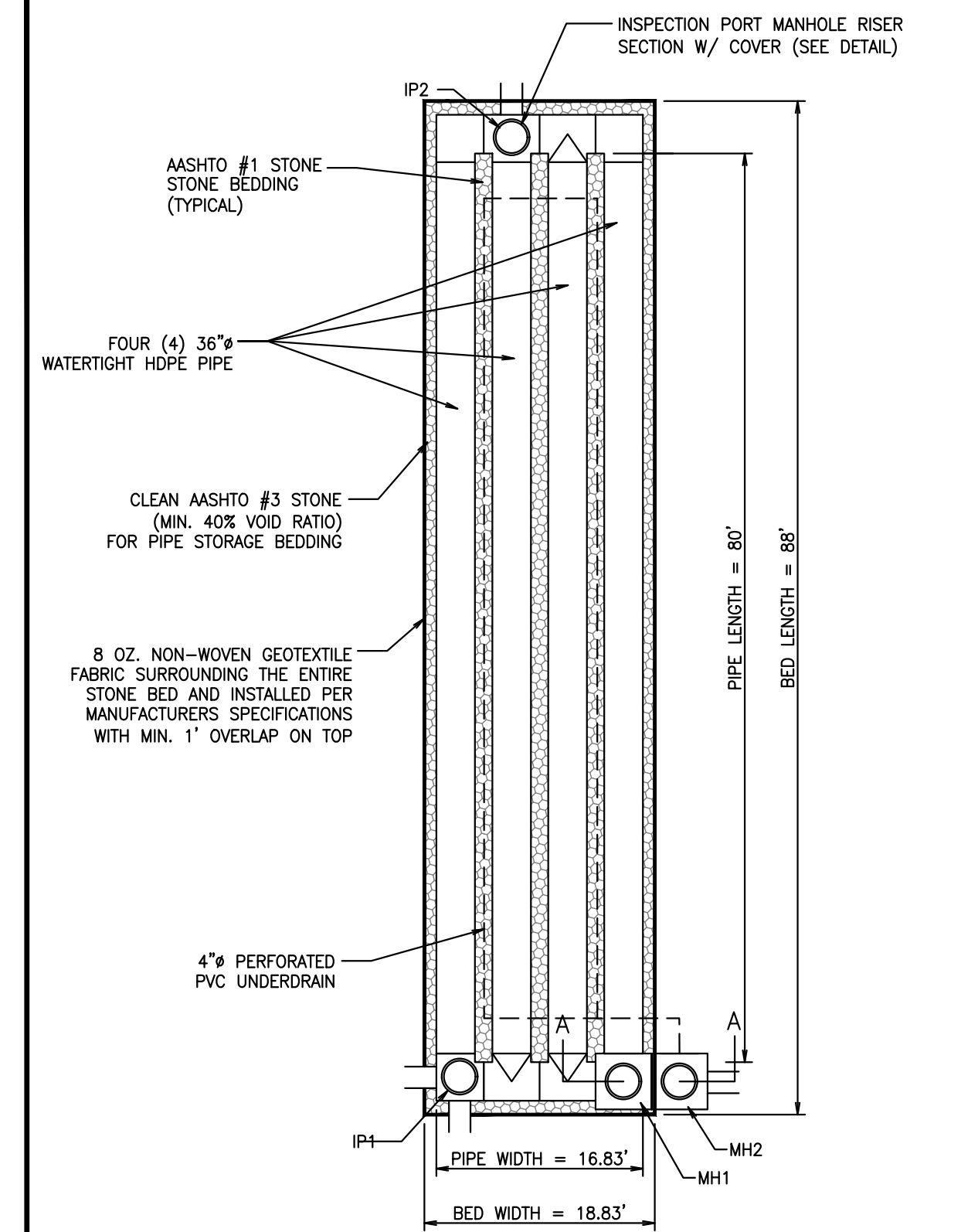


REV.	DATE	DESCRIPTION
1	08/01/23	REMOVED PER TOWNSHIP REVIEW LETTERS
2	08/04/23	REMOVED PER TOWNSHIP REVIEW LETTERS
3		
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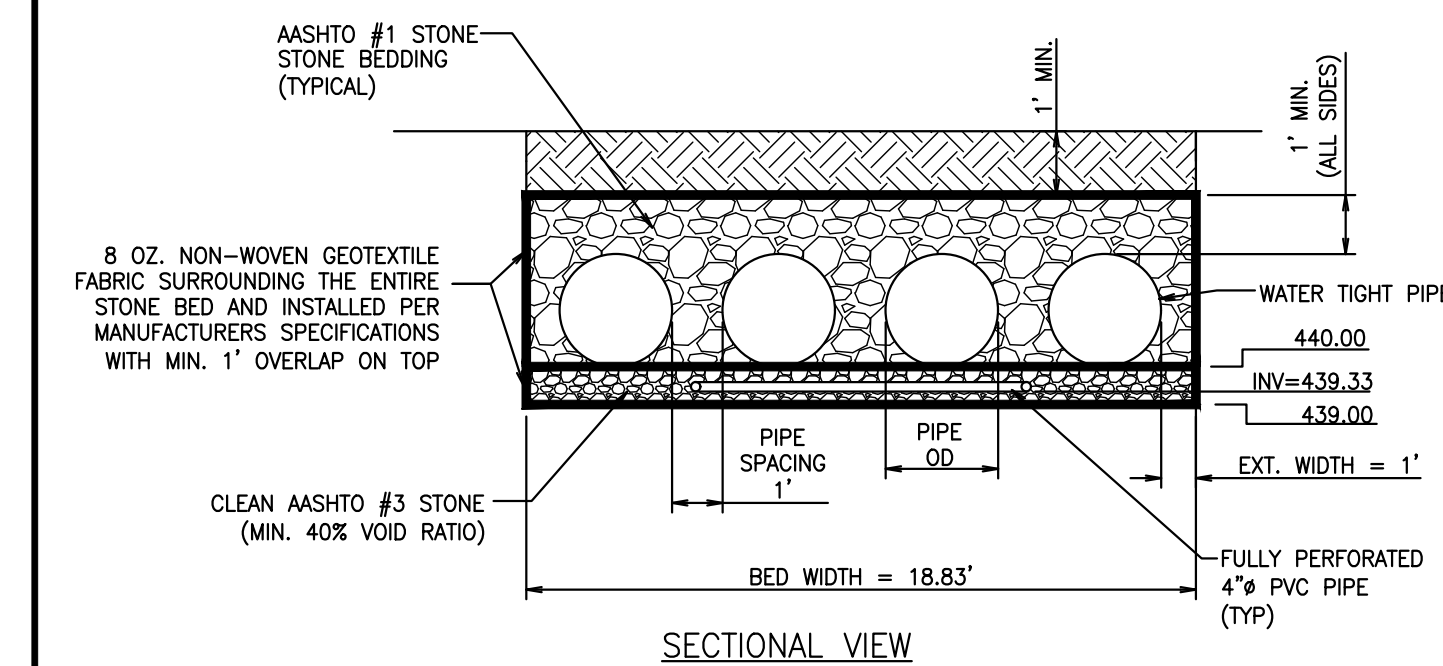
PRELIMINARY/FINAL PROFILE SHEET
CUSTOMER: OBD VENTURES
PROJECT: BYERS ROAD PROPERTY
LOCATION: 164 BYERS ROAD UPPER UWCHLAN TOWNSHIP, CHESTER COUNTY, PA

DATE:	12/21/20
SCALE:	AS SHOWN
DRAWN BY:	AM
CHECKED BY:	DWG
PROJECT NO.:	2146
CAD FILE:	05 PROFILE SHEET.dwg
PLOTTED:	08/04/23
DRAWING NO.:	C05.01
SHEET	06 OF 13





PLAN VIEW

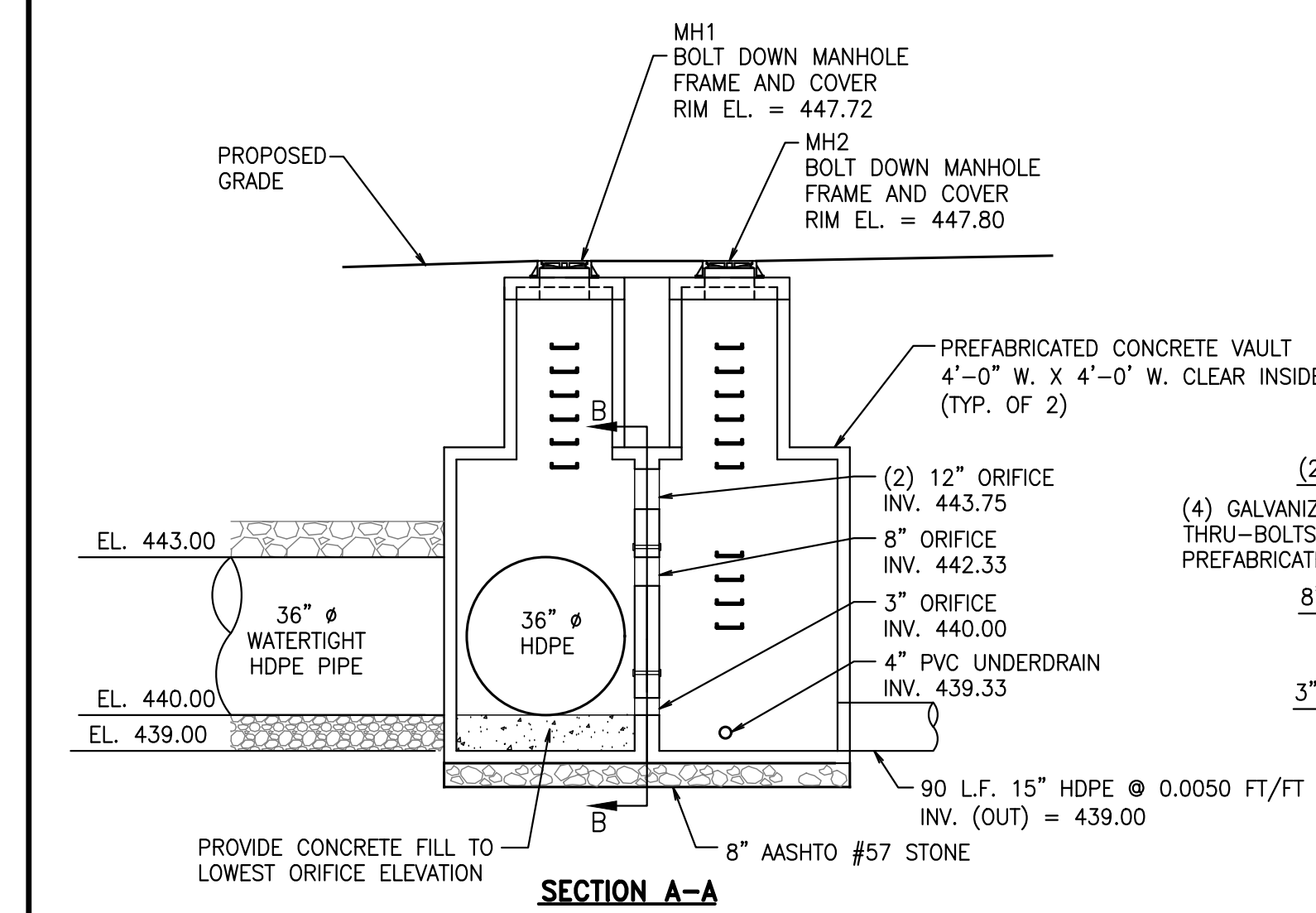


SECTIONAL VIEW

### PROPOSED PIPE STORAGE DETAIL

SCALE: NOT TO SCALE

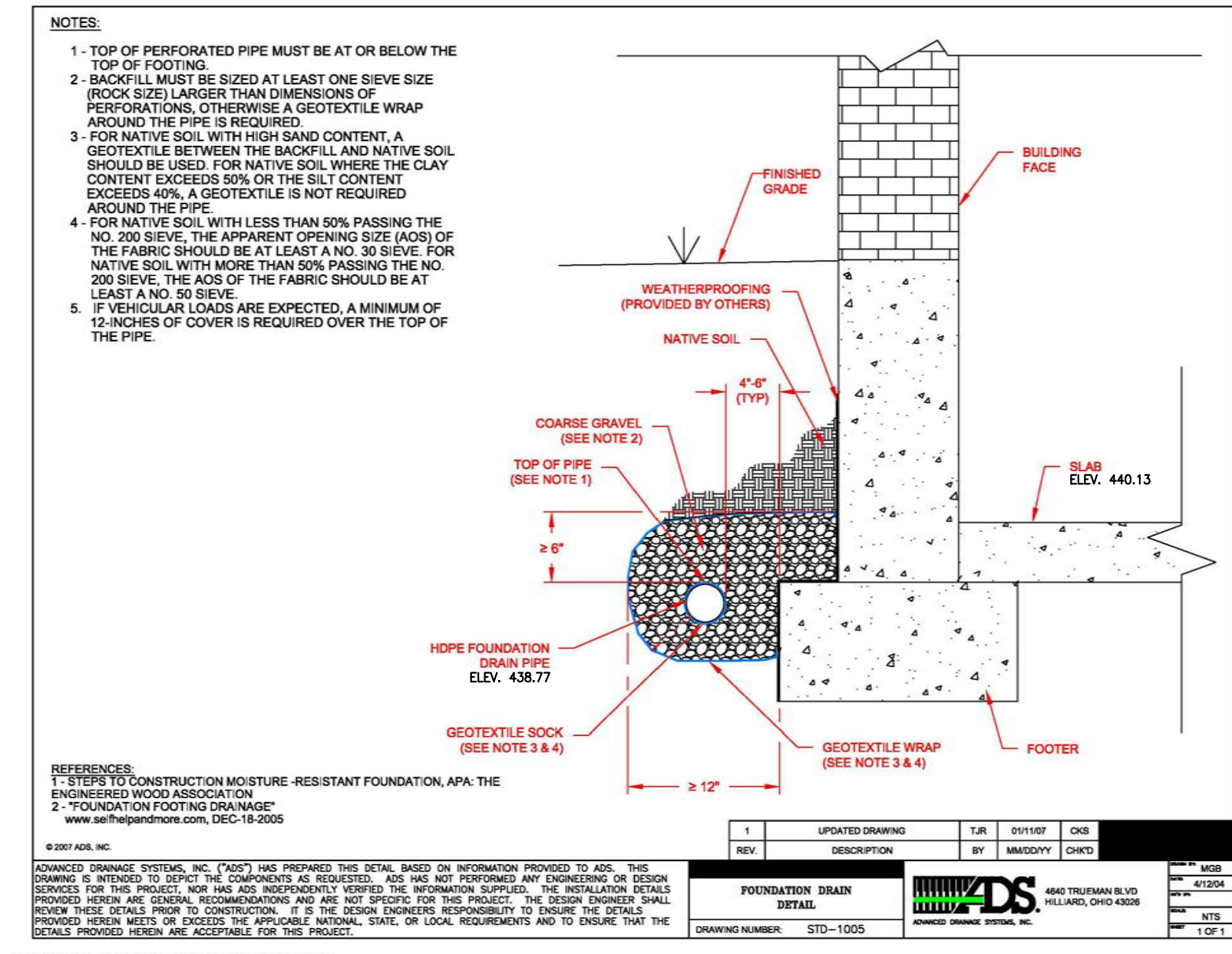
- NOTES:
- PIPE BEDDING MATERIAL SHALL BE PER MANUFACTURER'S SPECIFICATION.
  - HAUNCH MATERIAL SHALL BE PER MANUFACTURER'S SPECIFICATION.
  - GEOTEXTILE FABRIC SHALL CONFORM TO PENNDOT 408 SPECIFICATIONS - SECTION 212 GEOTEXTILES OR LATEST ADDENDA.



SECTION A-A

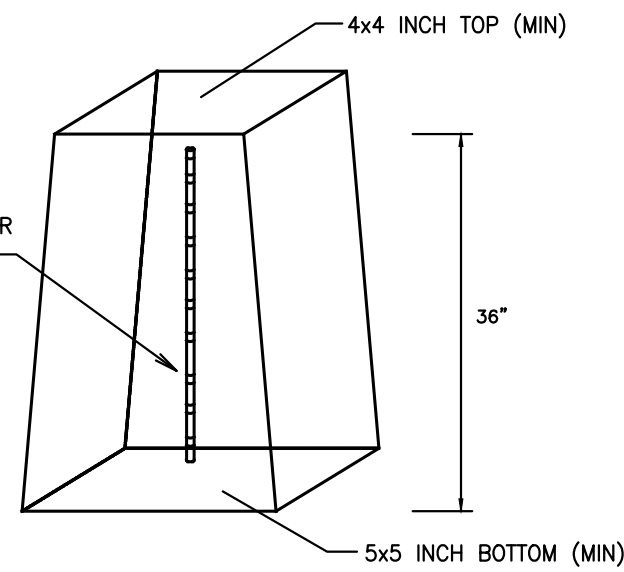
### OUTLET STRUCTURE @ PIPE STORAGE DETAIL

SCALE: NOT TO SCALE



### SCHEMATIC - BUILDING & FOUNDATION DRAIN

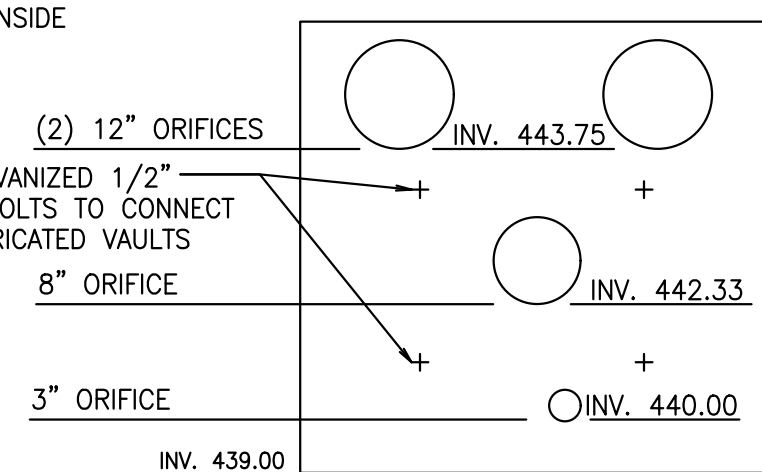
SCALE: NOT TO SCALE



USE PA DOT CLASS A CONCRETE OR BETTER.

### CONCRETE MONUMENT DETAIL

NOT TO SCALE



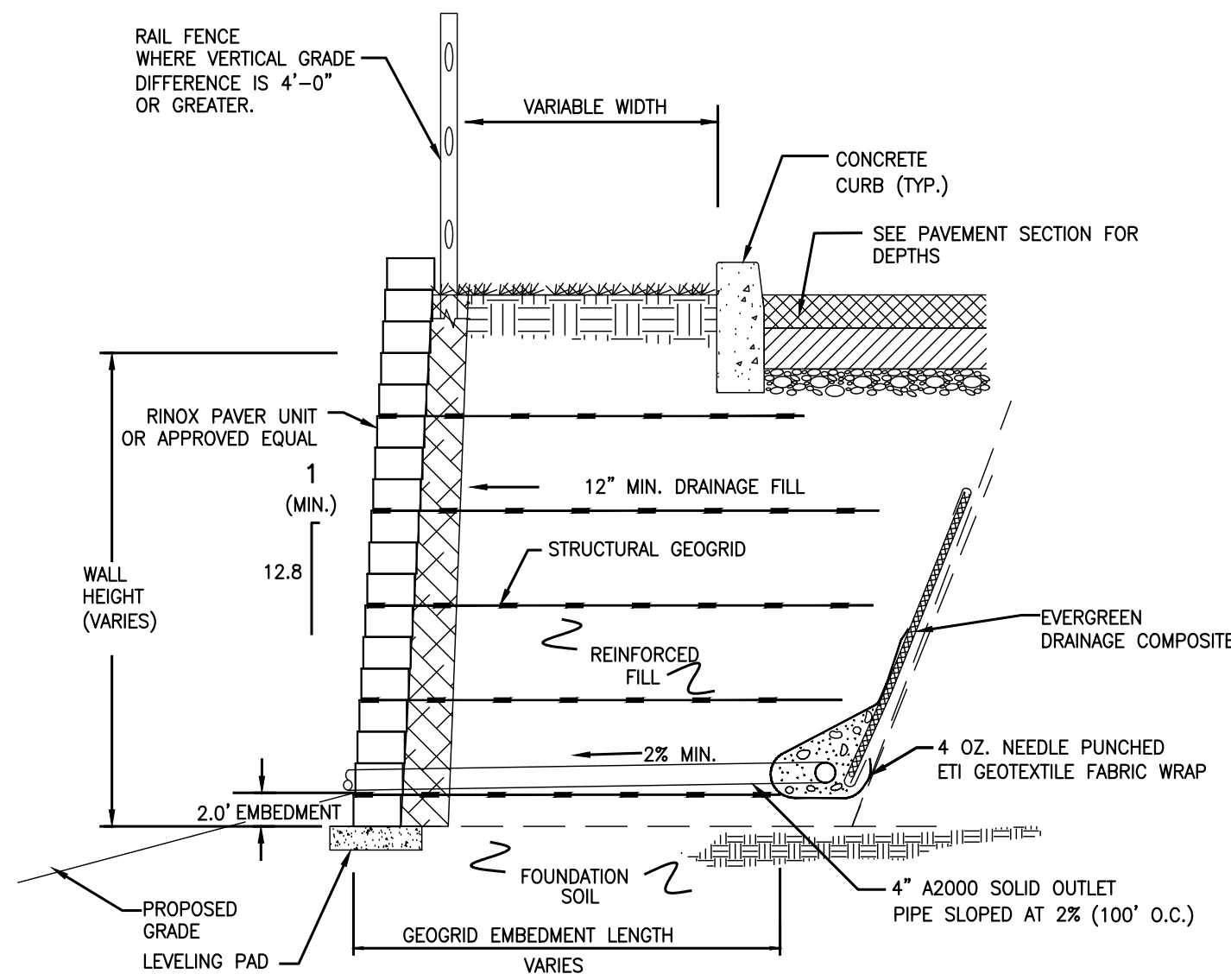
SECTION B-B

### INSPECTION PORT FOR PIPE STORAGE STRUCTURES (TYP.)

SCALE: NOT TO SCALE

OPERATION AND MAINTENANCE:

- INDIVIDUAL LATERAL LOCATIONS MAY BE REVISED IN THE FIELD TO SAVE INDIVIDUAL TREES.
- ANY FILL TO OCCUR DOWNHILL OF THE SEEPAGE BEDS SHALL BE COMPACTED TO A 95% MAX. DENSITY.
- 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.

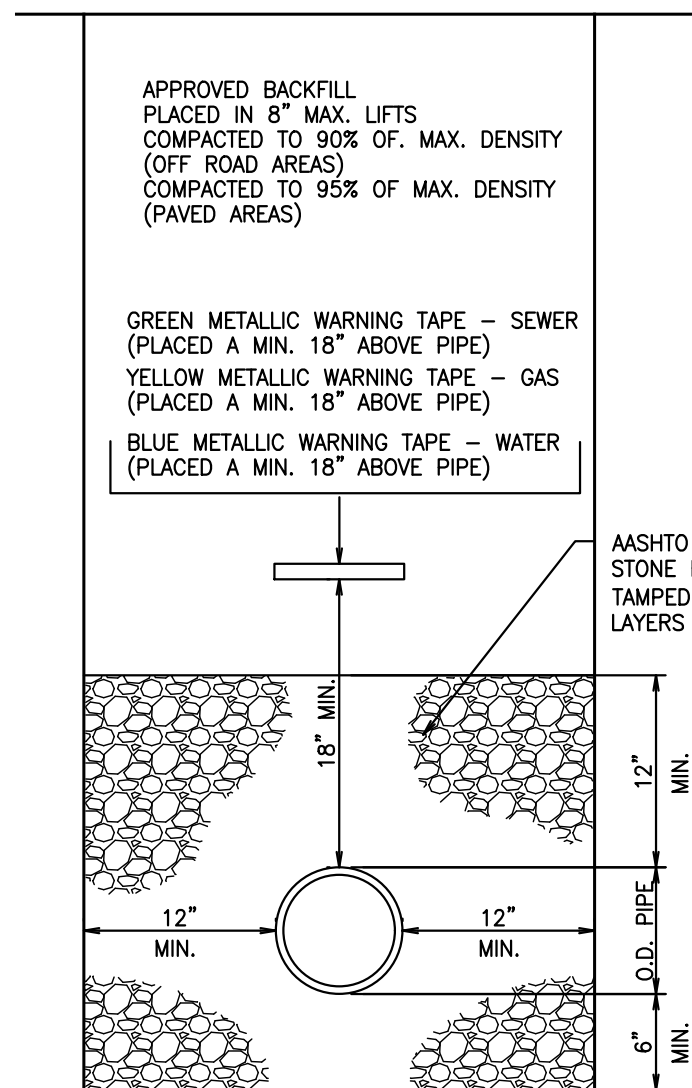


THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE CONCRETE BLOCK RETAINING WALL TO THE TOWNSHIP FOR APPROVAL PRIOR TO WALL INSTALLATION.

(ACTUAL WALL DESIGN BY OTHERS)

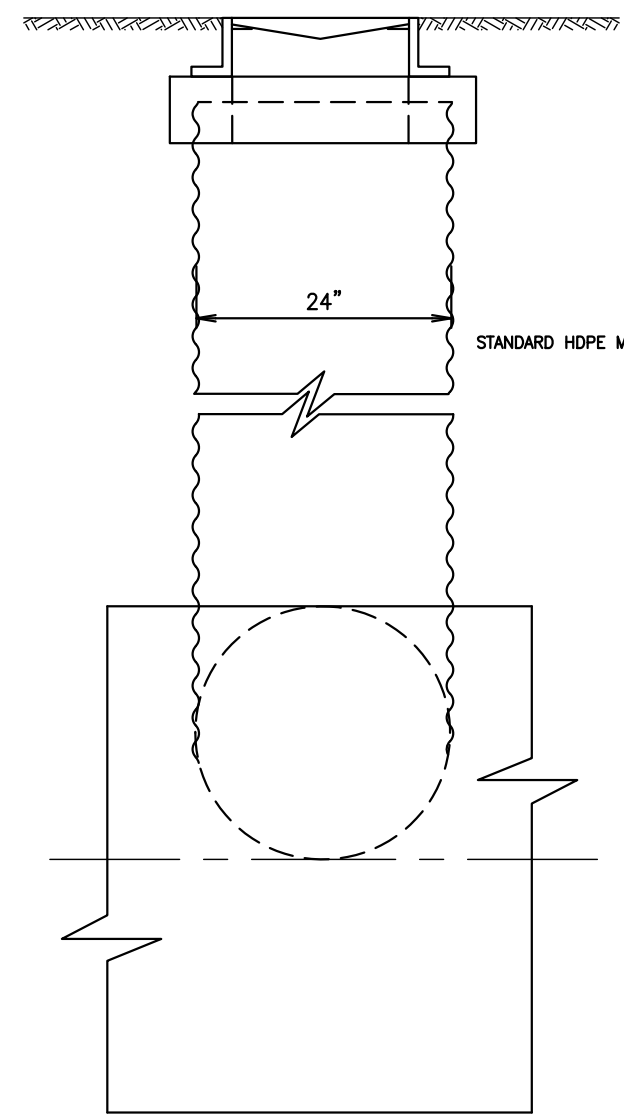
### RETAINING WALL DETAIL (TYPICAL)

NO SCALE



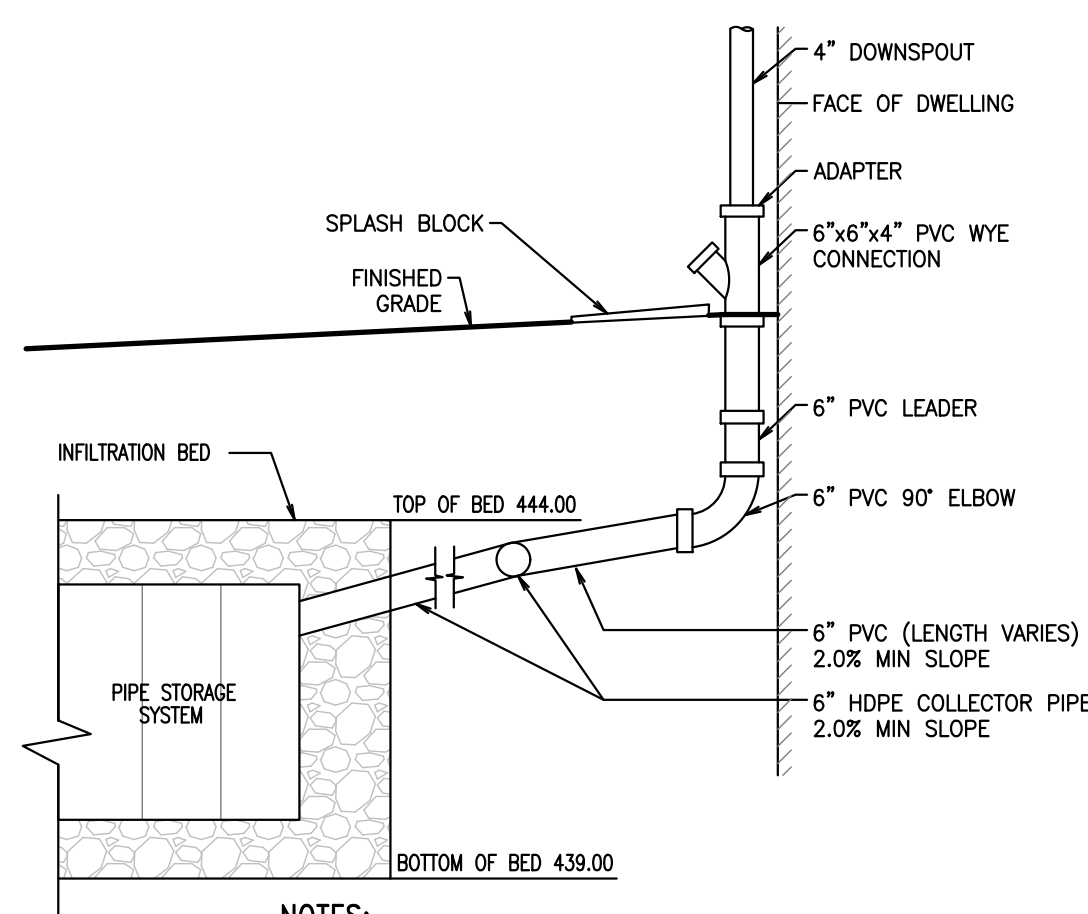
### TYPICAL UTILITY TRENCH DETAIL

SCALE: NOT TO SCALE



### HDPE STORM PIPE TRENCH DETAIL

SCALE: NOT TO SCALE

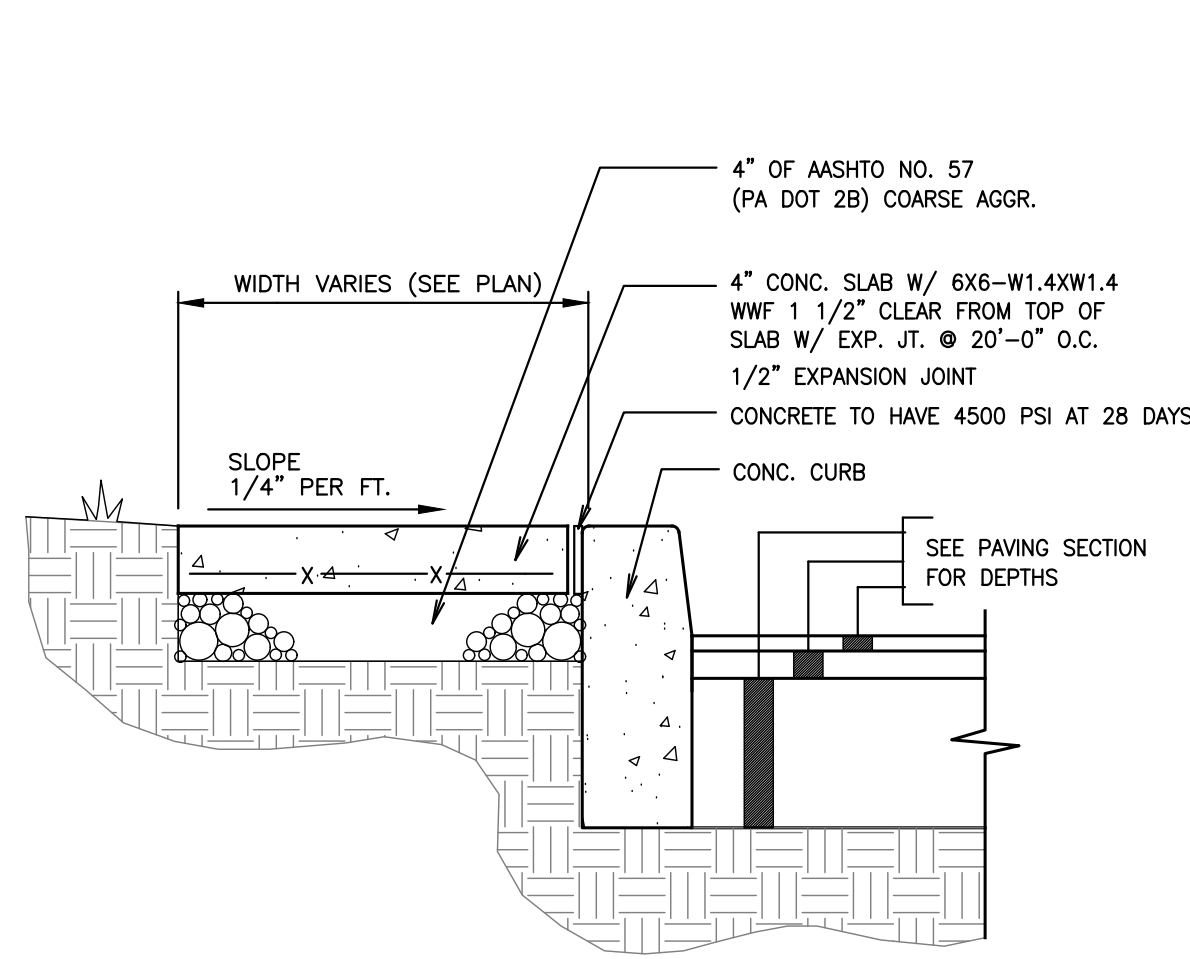
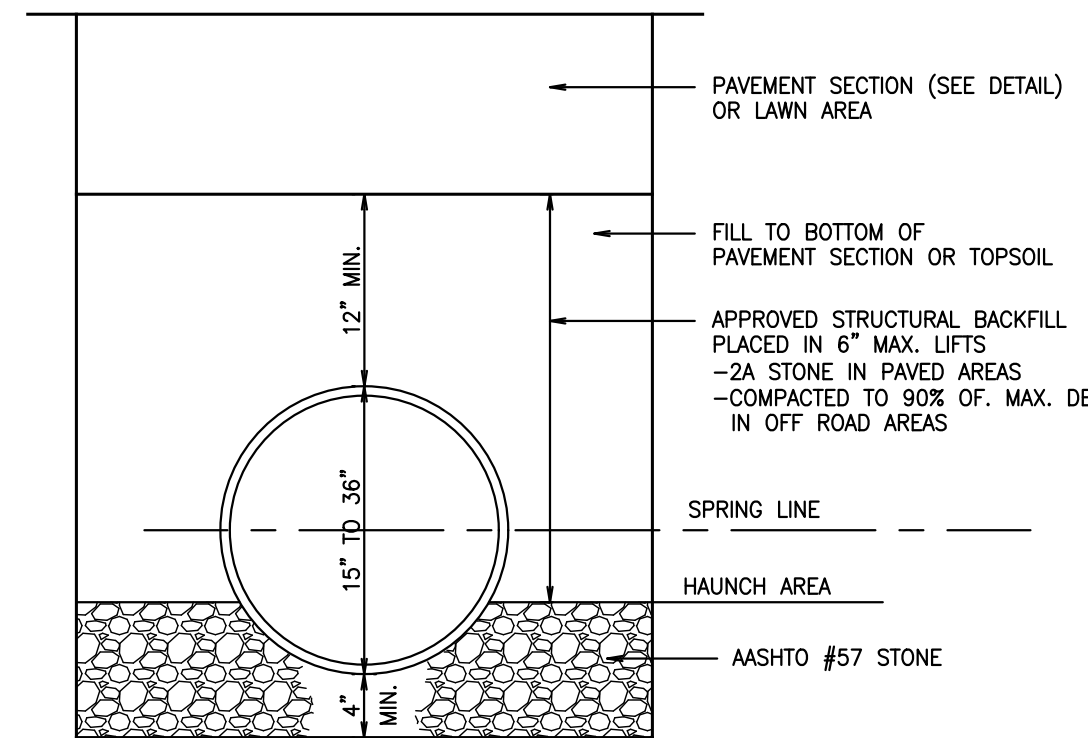


NOTES:

- PVC MAY BE SUBSTITUTED WITH AN APPROVED EQUAL MATERIAL
- LEAF GUARDS TO BE INSTALLED ON ALL GUTTER DOWNSPOUTS

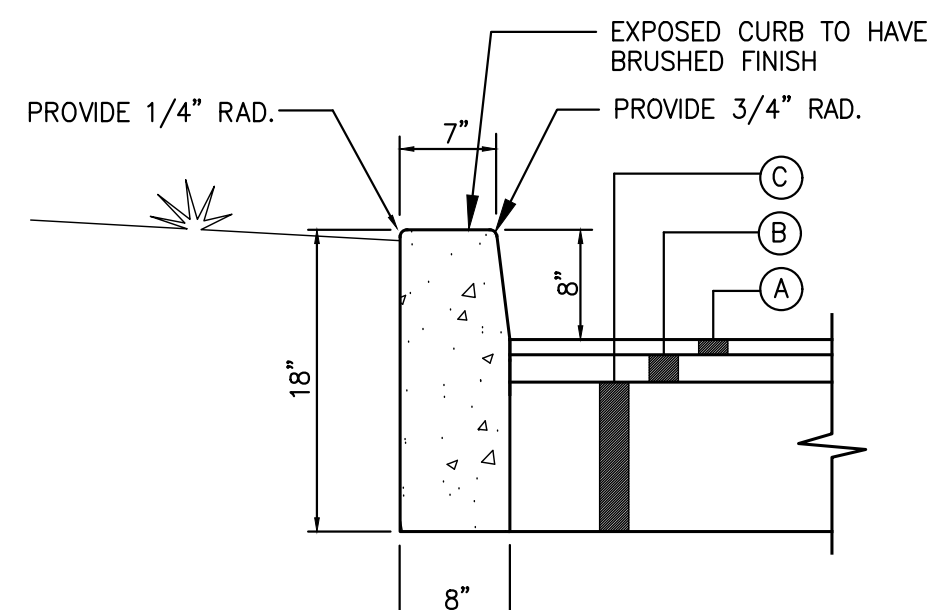
### DOWNSPOUT CONNECTION DETAIL

NO SCALE



### TYPICAL SIDEWALK DETAIL

SCALE: NOT TO SCALE



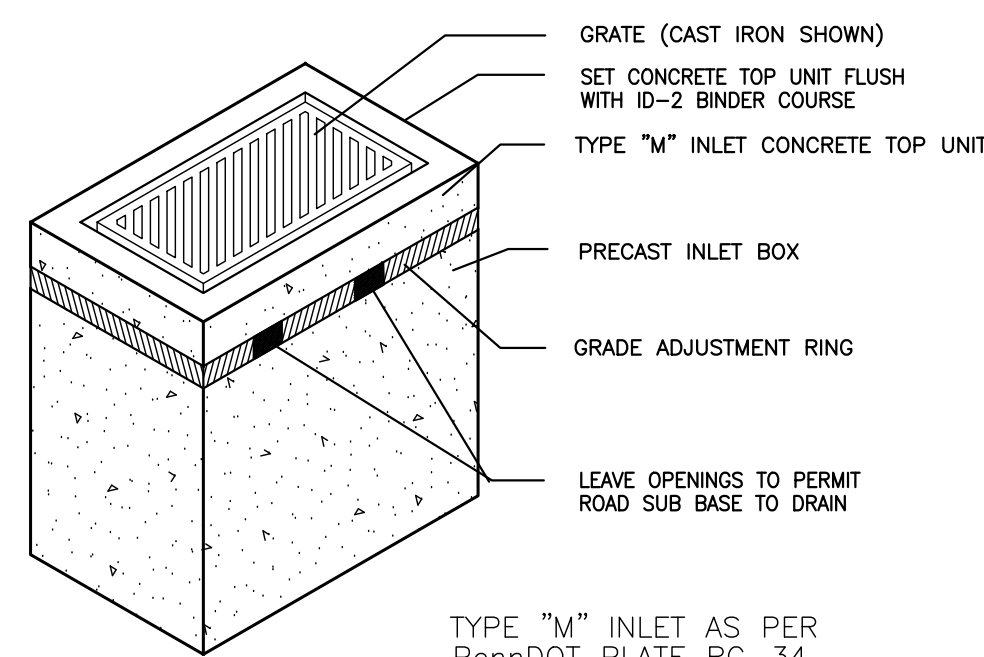
### TYPICAL PAVING SECTION

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

- NOTES:
- ALL MATERIALS & WORK TO CONFORM TO PennDOT FORM 408 SPECIFICATIONS. LATEST EDITION.
  - CONCRETE TO HAVE 3750 P.S.I. AT 28 DAYS.

### 8" CURBING & PAVING SECTION

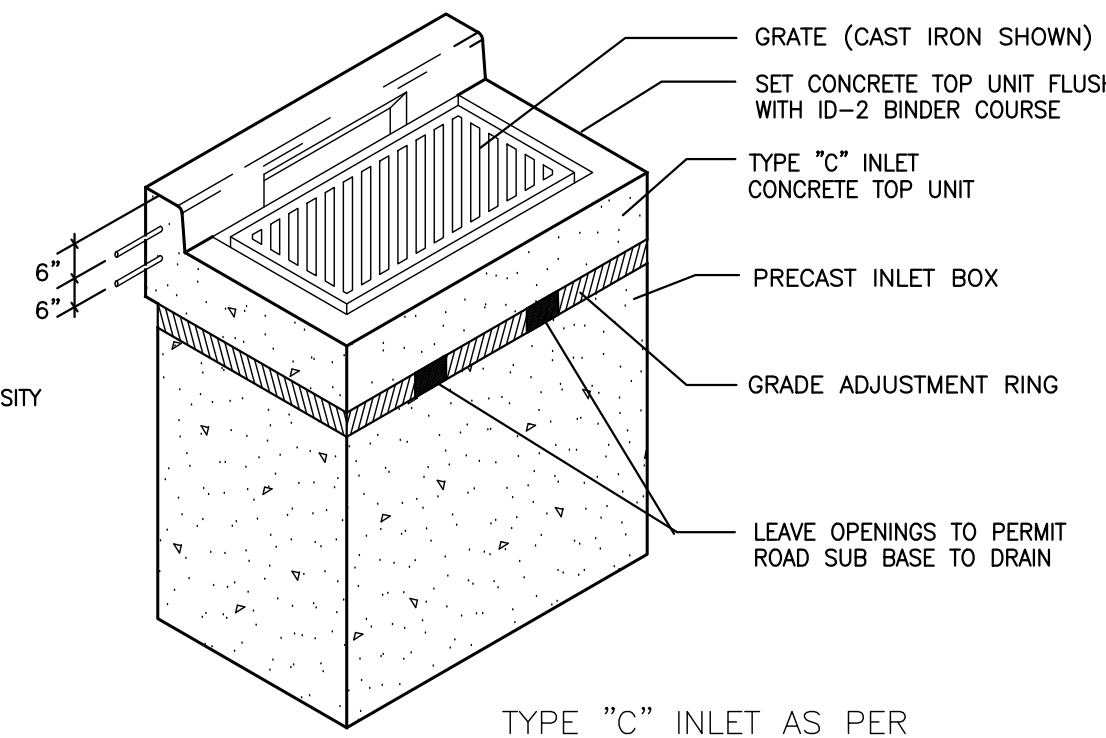
SCALE: NOT TO SCALE



TYPE "M" INLET AS PER PennDOT PLATE RC-34.

### TYPE 'M' INLET

SCALE: NOT TO SCALE



TYPE "C" INLET AS PER PennDOT PLATE RC-34.

### TYPE 'C' INLET

SCALE: NOT TO SCALE



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REV.	DATE	DESCRIPTION
1	08/01/23	REVIEW LETTERS
2	08/04/23	REVIEW LETTERS
3	08/04/23	REVIEW LETTERS
4	08/04/23	REVIEW LETTERS
5	08/04/23	REVIEW LETTERS
6	08/04/23	REVIEW LETTERS
7	08/04/23	REVIEW LETTERS
8	08/04/23	REVIEW LETTERS

PRELIMINARY/FINAL	DETAIL SHEET
CURB: OBD 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:	08 DETAIL SHEET.dwg
PLOTTED:	08/04/23
DRAWING NO.:	C06.01
SHEET	07 of 13







### BMP GENERAL NOTE

UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION BMP'S MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION BMP'S AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL SITE INSPECTIONS WILL BE DOCUMENTED IN AN INSPECTION LOG KEPT FOR THIS PURPOSE. THE COMPLIANCE ACTIONS AND THE DATE, TIME AND NAME OF THE PERSON CONDUCTING THE INSPECTION. THE INSPECTION LOG WILL BE KEPT ON SITE AT ALL TIMES AND MADE AVAILABLE TO THE DISTRICT UPON REQUEST. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAR OUT, REPAIR, REPLACEMENT, REGRADING, REMULCHING, RESEEDING, AND RETENNETING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENTATION BMP'S FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMP'S OR MODIFICATIONS OF THOSE INSTALLED WILL BE NEEDED, WHERE BMP'S ARE FOUND TO FAIL TO ALEVATE EROSION OR SEDIMENTATION POLLUTION THE PERMITTEE OR CO-PERMITTEE SHALL INCLUDE THE FOLLOWING INFORMATION:

- THE LOCATION AND SEVERITY OF THE BMP'S FAILURE AND ANY POLLUTION EVENTS.
- ALL STEPS TAKEN TO REDUCE, ELIMINATE AND PREVENT THE RECURRENCE OF THE NON-COMPLIANCE.
- THE TIME FRAME TO CORRECT THE NON-COMPLIANCE, INCLUDING THE EXACT DATES WHEN THE ACTIVITY WILL RETURN TO COMPLIANCE.

### GENERAL PCSM NOTES:

- AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION. CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE ANY AREAS DISTURBED BY THE ACTIVITIES. DURING NON-VEGETATIVE PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT FINISHED AND WHICH WILL NOT BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINISHED GRADE OR WHICH WILL NOT BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.
- IF THE CONTRACTOR ENCOUNTERS HIGH WATER TABLE, SHALLOW BEDROCK, SINKHOLES OR SOIL INSTABILITY DURING SITE CONSTRUCTION, THE DESIGN ENGINEER OR THE ON-SITE GEOTECHNICAL ENGINEER MUST BE CONTACTED IMMEDIATELY FOR CORRECTIVE MEASURES.
- IF GROUNDWATER OR BEDROCK IS ENCOUNTERED DURING THE INSTALLATION OF THE BMP'S STOP WORK AND CONTACT THE TOWNSHIP AND DESIGN ENGINEER FOR AN ALTERNATE STORMWATER BMP LOCATION OR NEW DESIGN.
- THE EROSION AND SEDIMENTATION CONTROL PLAN HAS BEEN DESIGNED IN AN EFFORT TO MINIMIZE THE EXTENT AND DURATION OF EARTH'S DISTURBANCE, WHILE PROTECTING THE EXISTING DRAINAGE FEATURES AND VEGETATION. THE E&S PLAN AND CONSTRUCTION SEQUENCE HAS BEEN DEVELOPED TO MINIMIZE SOIL COMPACTION, LAND CLEARING, AND IMPERVIOUS AREAS.
- THE DESIGN WILL PRESERVE THE INTEGRITY OF STREAM CHANNELS AND MAINTAIN AND PROTECT THE PHYSICAL, BIOLOGICAL AND CHEMICAL QUALITIES OF THE DOWNSIDE WATERSHED.
- THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIAL AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE.
- IF ANY UNFAVORABLE CONDITIONS ARE ENCOUNTERED DURING THE INSTALLATION OF THE BMP'S (I.E. GROUNDWATER AND/OR BEDROCK, ETC.), THE OWNER/ENGINEER SHOULD BE NOTIFIED AND THE PROPOSED SYSTEM SHOULD BE RELOCATED TO A MORE SUITABLE LOCATION ON THE PROPERTY.
- NO PERSON SHALL MODIFY, REMOVE, FILL, LANDSCAPE, ALTER, OR IMPAIR THE EFFECTIVENESS OF ANY STORMWATER BMP'S, CONVEYANCES, FACILITIES, AREAS OR STRUCTURES UNLESS THE ACTIVITY IS PART OF AN APPROVED MAINTENANCE PROGRAM, WITHOUT THE WRITTEN APPROVAL OF THE MUNICIPALITY.
- NO PERSON SHALL PLACE ANY STRUCTURE, FILL, LANDSCAPING, ADDITIONAL VEGETATION, YARD WASTE, BRUSH, CUTTINGS, OR OTHER WASTE OR DEBRIS INTO A BMP OR CONVEYANCE, OR WITHIN A STORMWATER EASEMENT, THAT WOULD LIMIT OR ALTER THE FUNCTIONING OF THE STORMWATER BMP OR CONVEYANCE, WITHOUT THE WRITTEN APPROVAL OF THE MUNICIPALITY.
- AN AS-BUILT SURVEY OF ALL STORMWATER BMP'S AND AN EXPLANATION OF ANY DISCREPANCIES WITH THE OPERATION AND MAINTENANCE PLAN SHALL BE PROVIDED TO UPPER UWCHLAN TOWNSHIP.
- REPRESENTATIVES OF UPPER UWCHLAN TOWNSHIP OR OTHER GOVERNMENTAL AUTHORITIES SHALL HAVE PERMISSION TO GAIN ACCESS TO THE STORMWATER MANAGEMENT FACILITIES THROUGH A EASEMENT OVER THE PROPERTY TO PERFORM INSPECTIONS, MAINTENANCE AND REPAIRS OF THE SYSTEM, AS NECESSARY.

### INFILTRATION FACILITY MAINTENANCE AND OPERATION:

**INSPECTION:** UNDERGROUND BMP SYSTEMS, INLETS, AND PIPING SHALL BE INSPECTED QUARTERLY AND AFTER RAINFALL EVENTS (1"+) BY THE OWNER. INSPECTION ITEMS SHALL INCLUDE THE CONDITION OF THE INSPECTION PORTS AND ANY VISIBLE CONNECTIONS, SEDIMENT ACCUMULATION OR STANDING WATER IN THE INLET AND ANY SETTLING OR BREAKOUTS ALONG THE LENGTH OF THE SYSTEM. INSPECT INLETS FOR BLOCKAGE. ACCUMULATED RUNOFF WITHIN THE STORAGE SYSTEM FROM ALL STORM EVENTS SHOULD BE DISSIPATED WITHIN 72 HOURS.

**MAINTENANCE:** DURING THE REGULAR INSPECTIONS AT THE INTERVAL NOTED ABOVE, THE OWNER SHALL REMOVE ANY ACCUMULATED SEDIMENT AND DEBRIS FROM INLET. UNLOG PIPE CONNECTIONS AS NECESSARY AND REPAIR ANY DAMAGED PIPING. IF SIGNIFICANT SETTLEMENT HAS OCCURRED, AND THE COLLECTED RUNOFF DOES NOT DEWATER, CONSULT THE TOWNSHIP AND THE ENGINEER OF RECORD FOR APPROPRIATE RENOVATION MEASURES. ANY ISSUES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE TOWNSHIP ENGINEER WITH APPROPRIATE REMEDIATION BEING IMPLEMENTED WITHIN 60 DAYS.

### STORMWATER BMP NOTES:

- COMPACTION IS TO BE MINIMIZED IN THE AREAS DESIGNATED FOR THE UNDERGROUND SYSTEM.
- BED FILTER FABRIC AND STONE SHOULD BE KEPT CLEAN OF SOIL/SEDIMENT DURING THE INSTALLATION PROCESS. IF INSPECTION INDICATES THAT SOIL/SEDIMENT HAS ENTERED THE BED, APPROPRIATE MEASURES (I.E. CLEANING THE SOIL/SEDIMENT FROM THE FABRIC, STONE, ETC. AND OR REPLACEMENT OF THE FABRIC AND STONE) SHOULD BE ADDRESSED.
- ALL STONE FOR THE CONSTRUCTION OF THE INFILTRATION BED SHOULD BE UNIFORMLY GRADED AND CLEAN WASHED AGGREGATE.
- THE BOTTOM OF THE BED SHALL BE UNDISTURBED OR UNCOMPACTED SUBGRADE.
- THE BOTTOM OF THE BED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF THE AGGREGATE.

### SOIL TYPE(S)

- GeB2 - GLENLEIGH CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED  
GnB2 - GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES, MODERATELY ERODED  
UzdB - URBAN LAND-UDORTHENTS, SCHIST AND GNEISS COMPLEX, 0 TO 8 PERCENT SLOPES

### RECEIVING SURFACE WATERS - 102.8(f)(5)

\*THE PENNSYLVANIA TITLE 25, CHAPTER 93 CLASSIFICATION FOR THE RECEIVING WATERS OF THE COMMONWEALTH  
UNNAMED TRIBUTARY (UNT) TO PICKERING CREEK IN THE PICKERING CREEK WATERSHED: A HIGH QUALITY-TROUT STOCKING FISHERY (HQS-TSF) WATER COURSE

### LEGEND

EX. PROPERTY LINE	EX. CONTOUR	EX. FENCE	PROP. LIGHT POLE	EX. UTILITY POLE	PROP. STORM INLET	EX. WATER LINE	PROP. WATER LINE
EX. RIGHT-OF-WAY	EX. PROPOSED CONTOUR	EX. FENCE BOX	EX. FENCE	EX. UTILITY POLE	PROP. STORM INLET ID	EX. WATER VALVE	PROP. WATER LATERAL
EX. RIGHT-OF-WAY	EX. PROPOSED CONTOUR	EX. SIGN	EX. SIGN	EX. UTILITY POLE	PROP. SEEPAGE BED	EX. HYDRANT	PROP. FIRE WATER LINE
EX. MONUMENT	EX. PROPOSED CONTOUR	EX. SIGN	EX. SIGN	EX. UTILITY POLE	PROP. SEEPAGE BED	EX. HYDRANT	PROP. FIRE WATER LINE
EX. IRON PIPE	EX. PROPOSED CONTOUR	EX. SIGN	EX. SIGN	EX. UTILITY POLE	PROP. SEEPAGE BED	EX. HYDRANT	PROP. FIRE WATER LINE
EX. IRON PIPE	EX. PROPOSED CONTOUR	EX. SIGN	EX. SIGN	EX. UTILITY POLE	PROP. SEEPAGE BED	EX. HYDRANT	PROP. FIRE WATER LINE
EX. EASEMENT	EX. PROPOSED CONTOUR	EX. SIGN	EX. SIGN	EX. UTILITY POLE	PROP. SEEPAGE BED	EX. HYDRANT	PROP. FIRE WATER LINE
EX. EASEMENT	EX. PROPOSED CONTOUR	EX. SIGN	EX. SIGN	EX. UTILITY POLE	PROP. SEEPAGE BED	EX. HYDRANT	PROP. FIRE WATER LINE
EX. WETLANDS	EX. PROPOSED CONTOUR	EX. SIGN	EX. SIGN	EX. UTILITY POLE	PROP. SEEPAGE BED	EX. HYDRANT	PROP. FIRE WATER LINE

### 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

ACT 287 SERIAL NUMBER 20092592101

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 & Assoc., Inc. guarantee that all subsurface utility lines, structures, etc. are shown.

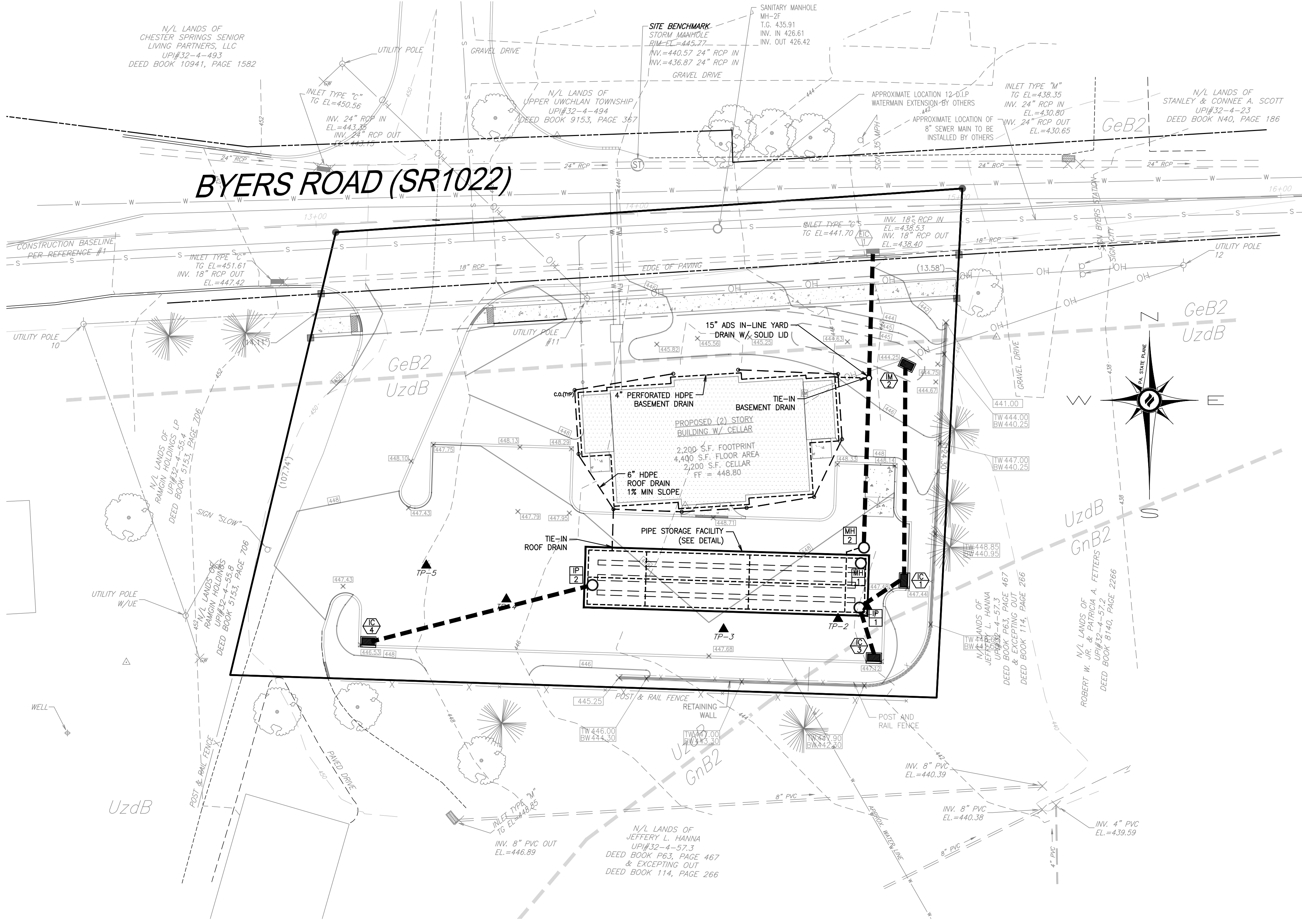
Contractor shall verify the location and elevations of all subsurface utility lines, structures, etc. before the start of work, by calling the Pennsylvania One Call System at 1-800-242-1776.

### UTILITIES NOTIFIED

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

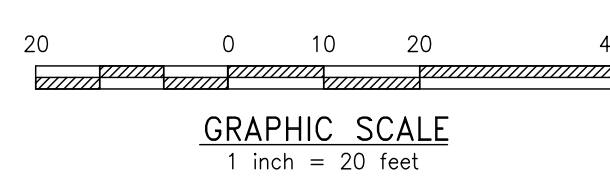
### LEGEND

EX. PROPERTY LINE	EX. CONTOUR	EX. FENCE	PROP. LIGHT POLE	EX. UTILITY POLE	PROP. STORM INLET	EX. WATER LINE	PROP. WATER LINE
EX. RIGHT-OF-WAY	EX. PROPOSED CONTOUR	EX. FENCE BOX	EX. FENCE	EX. UTILITY POLE	PROP. STORM INLET ID	EX. WATER VALVE	PROP. WATER LATERAL
EX. RIGHT-OF-WAY	EX. PROPOSED CONTOUR	EX. SIGN	EX. SIGN	EX. UTILITY POLE	PROP. SEEPAGE BED	EX. HYDRANT	PROP. FIRE WATER LINE
EX. MONUMENT	EX. PROPOSED CONTOUR	EX. SIGN	EX. SIGN	EX. UTILITY POLE	PROP. SEEPAGE BED	EX. HYDRANT	PROP. FIRE WATER LINE
EX. IRON PIPE	EX. PROPOSED CONTOUR	EX. SIGN	EX. SIGN	EX. UTILITY POLE	PROP. SEEPAGE BED	EX. HYDRANT	PROP. FIRE WATER LINE
EX. IRON PIPE	EX. PROPOSED CONTOUR	EX. SIGN	EX. SIGN	EX. UTILITY POLE	PROP. SEEPAGE BED	EX. HYDRANT	PROP. FIRE WATER LINE
EX. EASEMENT	EX. PROPOSED CONTOUR	EX. SIGN	EX. SIGN	EX. UTILITY POLE	PROP. SEEPAGE BED	EX. HYDRANT	PROP. FIRE WATER LINE
EX. EASEMENT	EX. PROPOSED CONTOUR	EX. SIGN	EX. SIGN	EX. UTILITY POLE	PROP. SEEPAGE BED	EX. HYDRANT	PROP. FIRE WATER LINE
EX. WETLANDS	EX. PROPOSED CONTOUR	EX. SIGN	EX. SIGN	EX. UTILITY POLE	PROP. SEEPAGE BED	EX. HYDRANT	PROP. FIRE WATER LINE



### PCSM & O&M PLAN

SCALE: 1"=20'



### STORMWATER NOTE:

REFERENCE THE STORMWATER MANAGEMENT REPORT PREPARED FOR 164 BYERS ROAD, AS PREPARED BY DL HOWELL, DATED DECEMBER 21, 2020 AND LAST REVISED SEPTEMBER 14, 2021, FOR STORMWATER MANAGEMENT CALCULATIONS ASSOCIATED WITH THIS PROJECT. PLEASE NOTE THAT THE STORMWATER MANAGEMENT FACILITY HAS BEEN DESIGNED FOR THE TOTAL IMPERVIOUS COVERAGE PROPOSED ON THIS PLAN.

### STORMWATER MANAGEMENT OPERATION & MAINTENANCE STATEMENT

UNDER AND SUBJECT, NEVERTHELESS, TO THE FOLLOWING CONDITIONS AND RESTRICTIONS, PRIOR TO THE CONSTRUCTION OF A BUILDING OR ANY OTHER EARTHMOVING ACTIVITIES, THE PROPERTY OWNER SHALL CONSTRUCT THE PERMANENT STORMWATER MANAGEMENT FACILITIES AS SHOWN ON THE STORMWATER MANAGEMENT PLAN PREPARED BY D.L. HOWELL & ASSOCIATES, INC., DATED DECEMBER 21, 2020 AND LAST REVISED AUGUST 4, 2023 AND APPROVED BY UPPER UWCHLAN TOWNSHIP; THEREAFTER, THE PROPERTY OWNER, HIS HEIRS, EXECUTORS, ADMINISTRATORS, SUCCESSORS, AND ASSIGNS (TOWNER), AT HIS OR HER SOLE COST OF EXPENSE, SHALL OPERATE, MAINTAIN AND REPAIR SAID STORMWATER MANAGEMENT FACILITIES ON THE LOT IN ACCORDANCE WITH SAID PLAN, SO THAT THE FACILITIES SHALL AT ALL TIMES CONTINUE TO OPERATE AND FUNCTION IN THE SAME MANNER AND CAPACITY AS THEY WERE DESIGNED. IN THE EVENT OF THE FAILURE OF THE OWNER TO COMPLY WITH THESE CONDITIONS AND RESTRICTIONS, UPPER UWCHLAN TOWNSHIP SHALL HAVE SAID STORMWATER MANAGEMENT FACILITIES REPAIRED OR RESTORED AS REQUIRED, AND THE COSTS THEREOF SHALL BE ASSESSED TO THE OWNER; SAID ASSESSMENT SHALL BE A CHARGE AND A CONTINUING LIEN UPON THE PROPERTY HEREIN. THE TOWNSHIP, BEFORE IT MAY EXERCISE THIS RIGHT, SHALL NOTIFY THE OWNER BY CERTIFIED MAIL OF ITS INTENTION TO TAKE THE AFORERUNED ACTION. THE NOTICE SHALL SET FORTH IN WHAT MANNER THE OWNER HAS NEGLECTED THE OPERATION AND MAINTENANCE OF OR REPAIR TO THE STORMWATER MANAGEMENT FACILITIES, AND IF THE OWNER FAILS TO CORRECT OR REPAIR THE ITEMS LISTED IN THE NOTICE FROM THE TOWNSHIP PRIOR TO THE IDENTIFIED DEADLINE, THEN AND ONLY THEN MAY THE TOWNSHIP EXERCISE THIS RIGHT.

(SIGN) PROPERTY OWNER (PRINT) (DATE)

### CERTIFICATE OF ACCURACY - ENGINEER

I, DAVID W. GIBBONS, ON THIS DATE 08/07/2023, HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE SWM SITE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF THE UPPER UWCHLAN TOWNSHIP ORDINANCE NO. 2013-05, STORMWATER MANAGEMENT ORDINANCE.

David W. Gibbons

DAVID W. GIBBONS, P.E. LICENSE NUMBER PE 076444

I HEREBY ACKNOWLEDGE THAT ANY REVISION TO THE APPROVED SWM SITE PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE MUNICIPALITY, AND THAT A REVISED EROSION AND SEDIMENT CONTROL PLAN SHALL BE SUBMITTED TO, AND APPROVED BY THE CONSERVATION DISTRICT OR MUNICIPALITY (AS APPLICABLE) FOR A DETERMINATION OF ADEQUACY PRIOR TO CONSTRUCTION OF THE REVISED FEATURES.

(SIGNATURE) (DATE)

I, (PROPERTY OWNER), ACKNOWLEDGE THAT THE STORMWATER MANAGEMENT BMP'S ARE PERMANENT FIXTURES THAT CAN BE ALTERED OR REMOVED ONLY AFTER APPROVAL BY UPPER UWCHLAN TOWNSHIP.

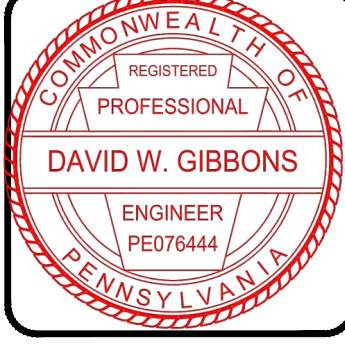
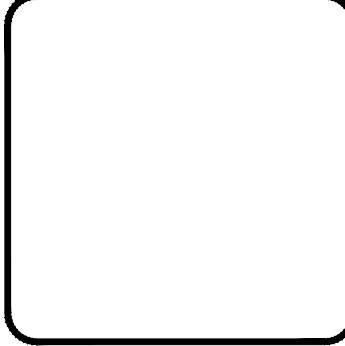
(SIGNATURE) (DATE)



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Phone: (610) 918-9002  
Fax: (610) 918-9003





NO.	DATE	REVISION	DESCRIPTION
1	08/07/23	REVISED PER TOWNSHIP REVIEW LETTERS	
2	08/07/23	REVISED PER TOWNSHIP REVIEW LETTERS	
3	08/07/23	REVISED PER TOWNSHIP REVIEW LETTERS	
4	08/07/23	REVISED PER TOWNSHIP REVIEW LETTERS	
5	08/07/23	REVISED PER TOWNSHIP REVIEW LETTERS	
6	08/07/23	REVISED PER TOWNSHIP REVIEW LETTERS	
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8	08/07/23	REVISED PER TOWNSHIP REVIEW LETTERS	

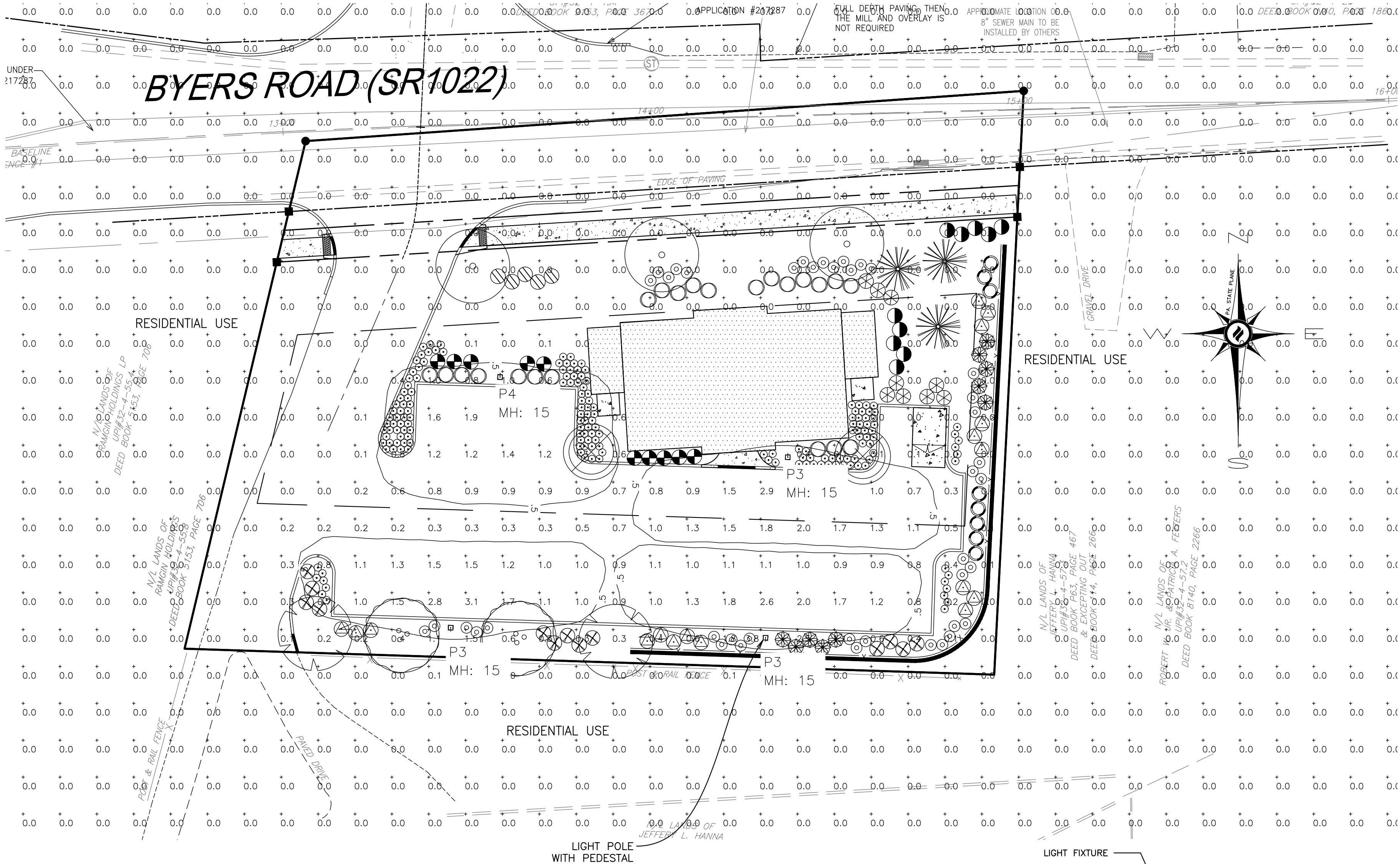
PRELIMINARY/FINAL	PCSM & O&M PLAN
CUSTOMER: OBD VENTURES	PROJECT: BYERS ROAD PROPERTY
LOCATION: 164 BYERS ROAD	UPPER UWCHLAN TOWNSHIP, CHESTER COUNTY, PA

DATE:	12/21/20
SCALE:	1"=20'
DRAWN BY:	AM
CHECKED BY:	DWG
PROJECT NO.:	2146
CAD FILE:	08 PCSM PLAN.dwg
PLOTTED:	08/04/23
DRAWING NO.:	C07.01
SHEET	09 of 13



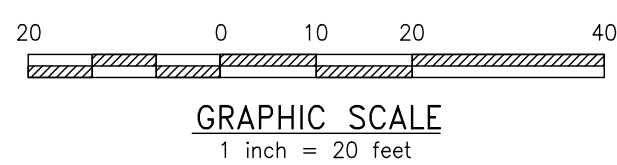
Luminaire Schedule										
Symbol	Qty	Label	LLF	Description	Lum. Watts	Lum. Lumens	BUG Rating	Mounting Height	Arrangement Watts	Arrangement Luminaire Lumens
	1	P4	0.900	NLS - NV-1-T4-16L-1-30K8-UNV-XX-XX-HSS	56	3539	B0-U0-G1	15	56	3539
	3	P3	0.900	NLS - NV-1-T3-16L-1-30K8-UNV-XX-XX-HSS	56	3522	B0-U0-G1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

Calculation Summary										
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Grid Z	PtSpCt	PtSpCtB
East Vertical Calc	Illuminance	Fc	0.01	0.0	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			



### LIGHTING PLAN

SCALE: 1"=20'



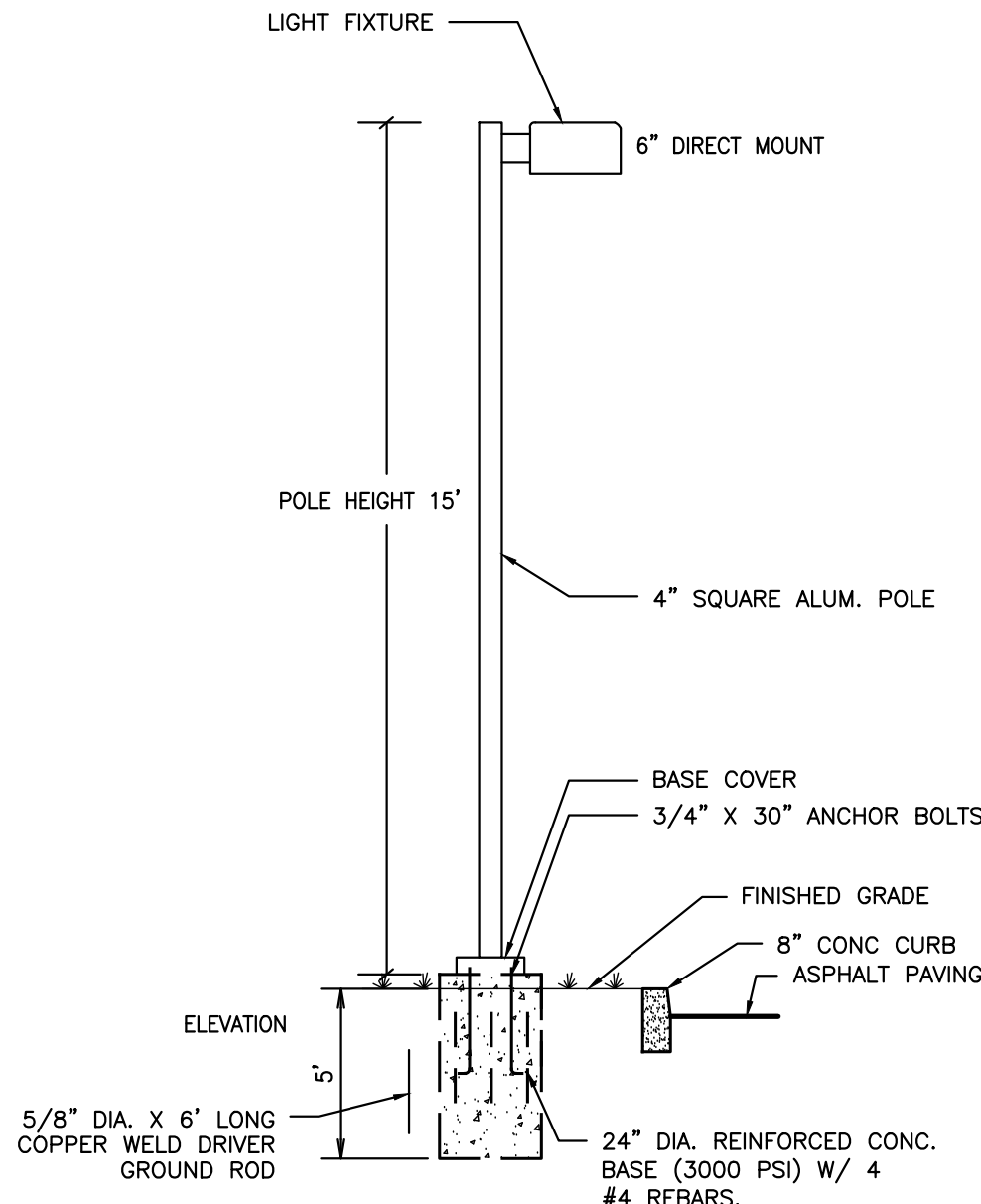
---	EX. PROPERTY LINE	---	EX. PROPERTY LINE
---	EX. RIGHT-OF-WAY	---	EX. RIGHT-OF-WAY
---	EX. MONUMENT	---	EX. MONUMENT
---	EX. IRON PIPE	---	EX. IRON PIPE
---	EX. EASEMENT	---	EX. EASEMENT
---	EX. WETLANDS	---	EX. WETLANDS

---	EXISTING CONTOUR	---	EXISTING CONTOUR
---	PROPOSED CONTOUR	---	PROPOSED CONTOUR
---	EXISTING SPOT ELEV.	---	EXISTING SPOT ELEV.
---	NEW SPOT ELEV.	---	NEW SPOT ELEV.
---	SOILS TYPE	---	SOILS TYPE
---	EX. CONC. CURB	---	EX. CONC. CURB
---	PROP. CONC. CURB	---	PROP. CONC. CURB
---	EX. EDGE OF PAVING	---	EX. EDGE OF PAVING
---	PROP. EDGE OF PAVING	---	PROP. EDGE OF PAVING
---	EX. LIGHT POLE	---	EX. LIGHT POLE

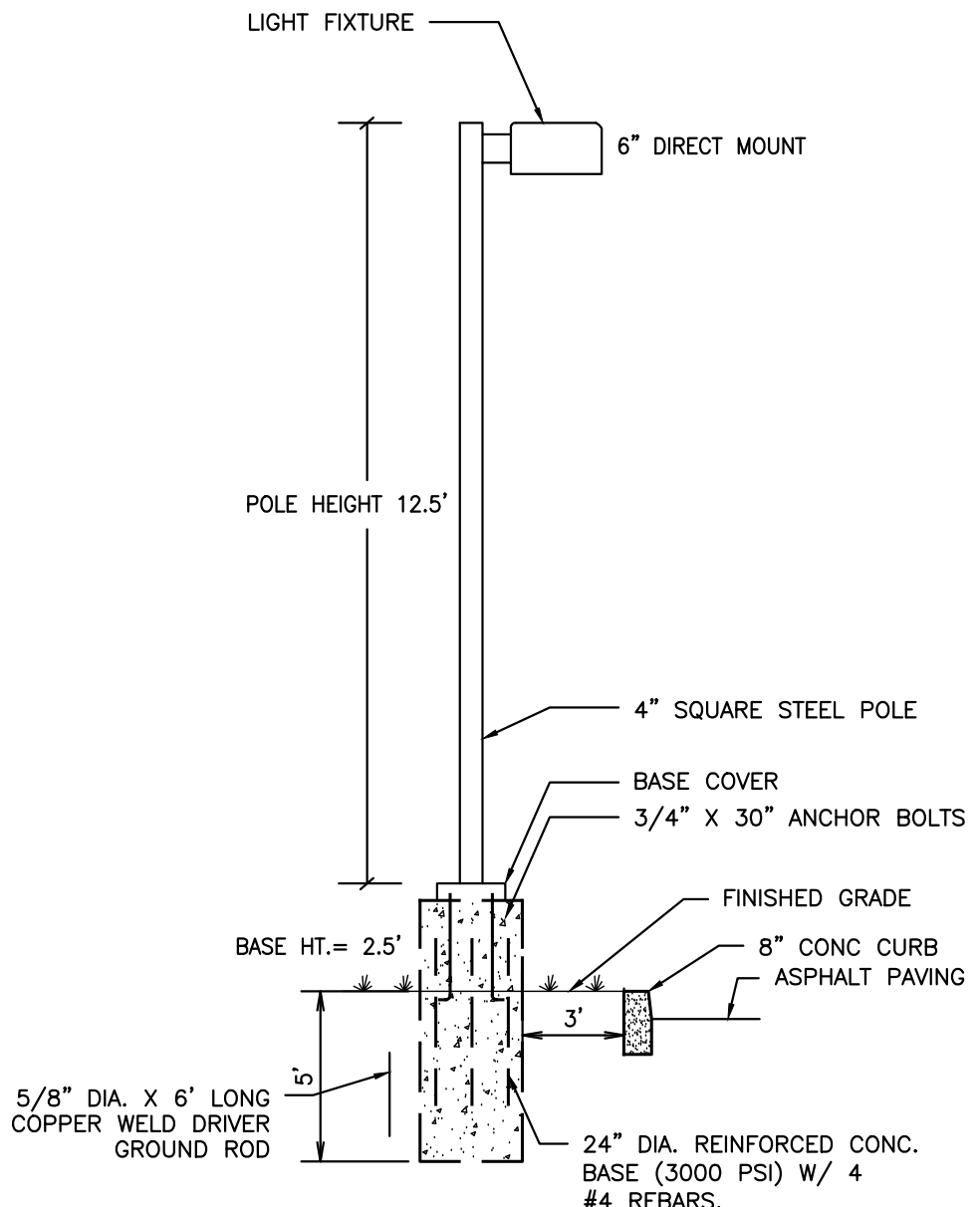
---	PROP. LIGHT POLE	---	PROP. LIGHT POLE
---	EX. FENCE	---	EX. FENCE
---	EX. MAIL BOX	---	EX. MAIL BOX
---	EX. SIGN	---	EX. SIGN
---	PROP. SIGN	---	PROP. SIGN
---	EXIST. PARKING SPACES	---	EXIST. PARKING SPACES
---	TO BE REMOVED	---	TO BE REMOVED
---	EX. TELE. LINE	---	EX. TELE. LINE
---	PROP. TELE. LINE	---	PROP. TELE. LINE
---	EX. ELEC. LINE	---	EX. ELEC. LINE

---	PROP. STORM INLET	---	PROP. STORM INLET
---	PROP. STORM INLET ID	---	PROP. STORM INLET ID
---	PROP. SEEPAGE BED	---	PROP. SEEPAGE BED
---	EX. SANITARY SEWER LINE	---	EX. SANITARY SEWER LINE
---	PROP. SAN. SEWER LINE	---	PROP. SAN. SEWER LINE
---	PROP. SAN. SEWER LATERAL	---	PROP. SAN. SEWER LATERAL
---	PROP. SANITARY MH. ID	---	PROP. SANITARY MH. ID
---	EX. WATER LINE	---	EX. WATER LINE

---	PROP. WATER LINE	---	PROP. WATER LINE
---	PROP. WATER LATERAL	---	PROP. WATER LATERAL
---	PROP. FIRE WATER LINE	---	PROP. FIRE WATER LINE
---	EX. WATER VALVE	---	EX. WATER VALVE
---	PROP. WATER VALVE	---	PROP. WATER VALVE
---	EX. HYDRANT	---	EX. HYDRANT
---	PROP. HYDRANT	---	PROP. HYDRANT
---	EX. MANHOLE	---	EX. MANHOLE
---	PROP. MANHOLE	---	PROP. MANHOLE



LIGHT POLE DETAIL  
NO SCALE



LIGHT POLE W/ PEDESTAL DETAIL  
NO SCALE

### GENERAL NOTES:

- POST APPROVAL ALTERATIONS TO LIGHTING PLANS OR INTENDED SUBSTITUTIONS FOR APPROVED LIGHTING EQUIPMENT SHALL BE SUBMITTED TO THE TOWNSHIP FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- THE TOWNSHIP RESERVES THE RIGHT TO CONDUCT POST-INSTALLATION NIGHTTIME INSPECTIONS TO VERIFY COMPLIANCE WITH COMMITMENTS MADE ON THE APPROVED PLAN, AND IF APPROPRIATE, TO REQUIRE REMEDIAL ACTION AT NO EXPENSE TO THE TOWNSHIP.
- NON-SECURITY LIGHTING FIXTURES SHALL BE EXTINGUISHED ONE HOUR AFTER CLOSE OF BUSINESS OR 11:00 P.M., WHICHEVER IS EARLIER. THE LIGHTING FIXTURES WILL BE CONTROLLED BY PHOTOCELL AND TIMER.
- SECURITY LIGHTING LIGHT LEVELS ARE TO BE REDUCED TO 25% BETWEEN 11:00 P.M. AND DAWN. HOWEVER, AT THIS TIME, NO SECURITY LIGHTING IS PROPOSED.
- A PROGRAMMABLE TIMER WITH DAYLIGHT SAVINGS TIME PROGRAMMABILITY, WITH BATTERY BACK-UP, SHALL BE UTILIZED TO AUTOMATICALLY CONTROL THE NON-SECURITY LIGHTS.
- ALL EXTERIOR LIGHTING, INCLUDING BUT NOT LIMITED TO THAT FOR THE ILLUMINATION OF FLAG, SOFFIT, CANOPY, SIGN, FACADE, BUILDING ENTRANCE, AND WALKWAY SHALL COMPLY WITH SLDO SECTION 162.58.D.
- ALL LIGHT POLES ADJACENT TO PARKING AREAS AND/OR DRIVEWAYS SHALL BE INSTALLED THREE (3) FEET FROM THE BACK OF THE CURB.



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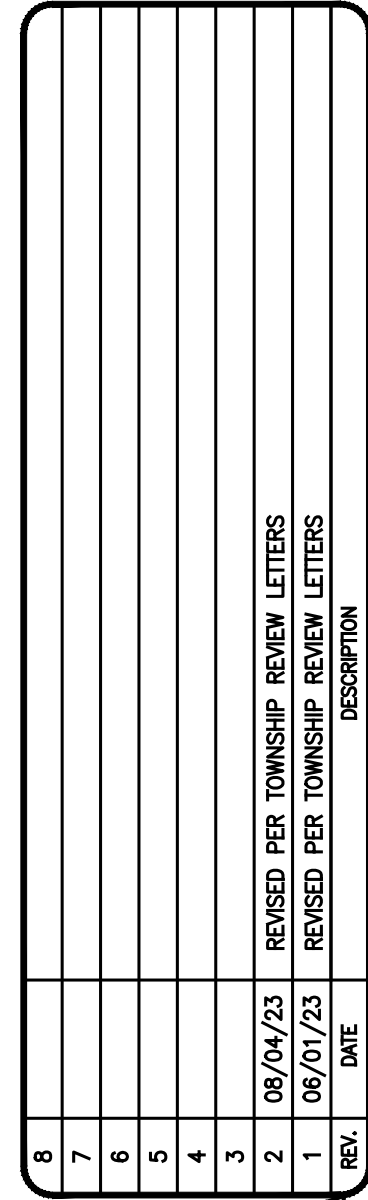



REV.	DATE	DESCRIPTION
1	08/01/23	REMOVED PER TOWNSHIP REVIEW LETTERS
2	08/04/23	REMOVED PER TOWNSHIP REVIEW LETTERS
3		
4		
5		
6		
7		
8		

PRELIMINARY/FINAL	LIGHTING PLAN
CURB: OBD VENTURES	PROJECT: BYERS ROAD PROPERTY
	LOCATION: 164 BYERS ROAD
	UPPER UHCLAN TOWNSHIP, CHESTER COUNTY, PA

DATE:	12/21/20
SCALE:	1"=20'
DRAWN BY:	AM
CHECKED BY:	DWG
PROJECT NO.:	2146
CAD FILE:	08 LIGHTING PLAN.dwg
PLOTTED:	08/04/23
DRAWING NO.:	C08.01
SHEET	10 of 13





PRELIMINARY/FINAL  
**LIGHTING SPECIFICATIONS PLAN**  
CLIENT: QBD VENTURES  
PROJECT: BYERS ROAD PROPERTY  
LOCATION: 164 BYERS ROAD  
UPPER UWHIGLAN TOWNSHIP, CHESTER COUNTY,

DATE:	12/21/20
SCALE:	AS SHOWN
DRAWN BY:	AM
CHECKED BY:	DWG
PROJECT NO.:	2146
CAD FILE:	09 LIGHTING PLAN.dwg
PLOTTED:	08/04/23
DRAWING NO.:	C08.02
SHEET	11 OF 13



PLANTING SCHEDULE

QTY	SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	NOTES
SECTION 162-57, LANDSCAPE DESIGN STANDARDS (SALDO)					
(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 SUBHIRTELLA '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 CALYGINUM '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 & QUERCUS PHELLOS					
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 CALYGINUM '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 TRIOBUM '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.

LEGEND

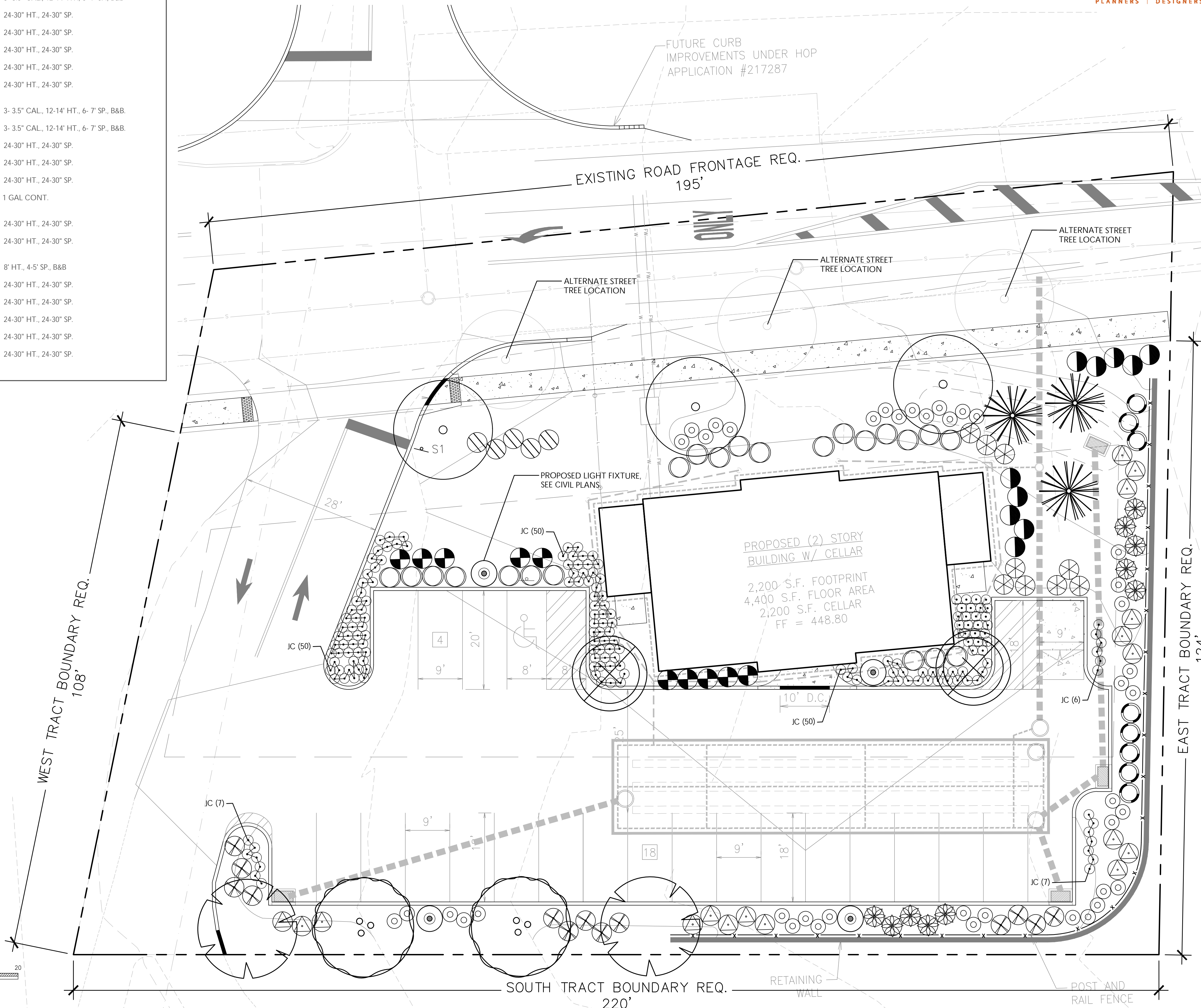
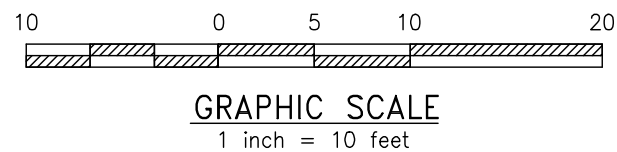
- ⊙ PROPOSED LIGHT FIXTURE, SEE CIVIL PLANS.

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 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:

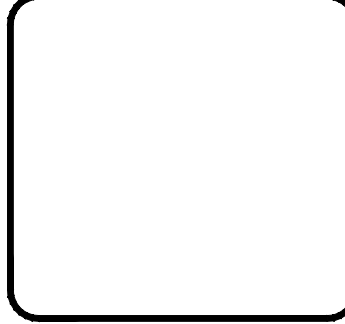
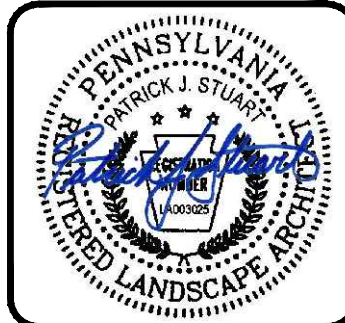
1. SEE PLANTING SCHEDULES AND CHARTS L9.00



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REV	DATE	DESCRIPTION
8		
7		
6		
5		
4		
3	08/04/2023	REVISED PER TWP REVIEW LETTER
2	03/03/2023	REVISED PER TWP REVIEW LETTER
1	09/17/2023	REVISED PER TWP REVIEW LETTER

PRELIMINARY LANDSCAPE PLAN
CLIENT: QBD VENTURES PROJECT: BYERS ROAD PROPERTY LOCATION: 164 BYERS ROAD, UPPER UWCHLAN TOWNSHIP CHESTER COUNTY, PA

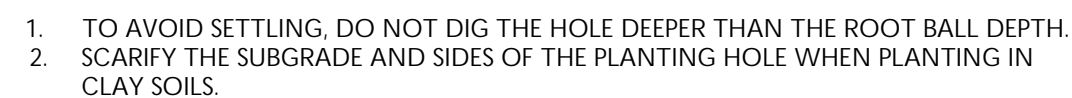
DATE:	12/21/2021
SCALE:	1"=10'
DRAWN BY:	KKM
CHECKED BY:	PJS
PROJECT NO.:	2146
CAD FILE:	QBD VENTURES 12.21.21.dwg
PLOTTED:	08/04/2023
DRAWING NO.:	C09.01
SHEET	12 of 13



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

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

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 STANDARD #4'S FOR NURSERY STOCK (ANSI Z60.1-2004). PLANT ACCORDING TO ANSI A300 PART 4.
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 BOTTOM HALF 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.

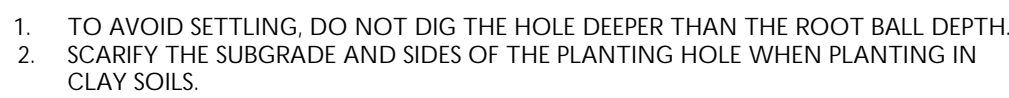
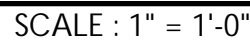


SCALE : 1/2" = 1'-0"

NOTE:  
SEE PLANT SPACING  
IN SCHEDULE.

SCALE : 1" = 1'-0"

75 SHRUBS



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

