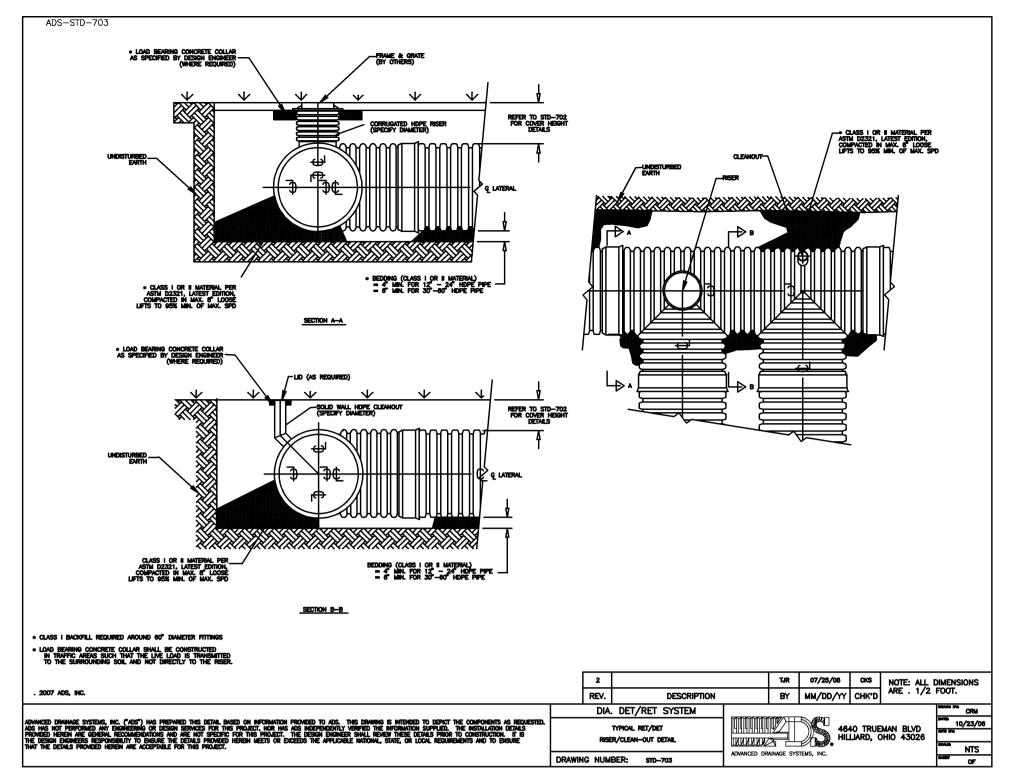
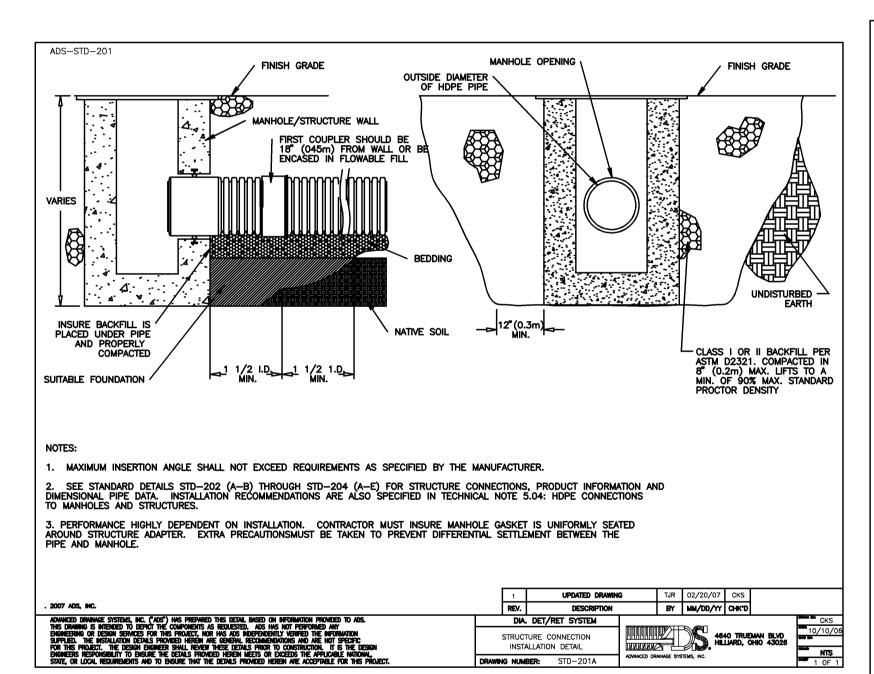
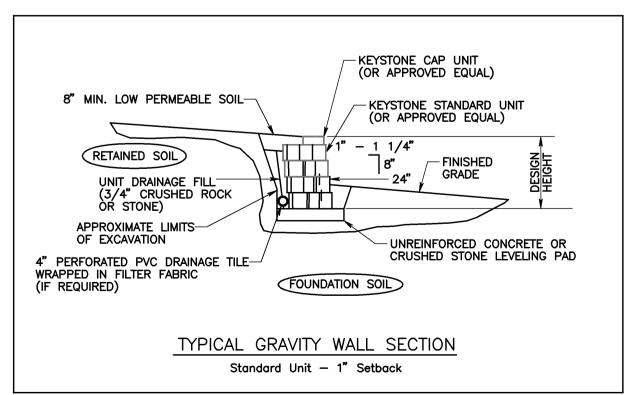


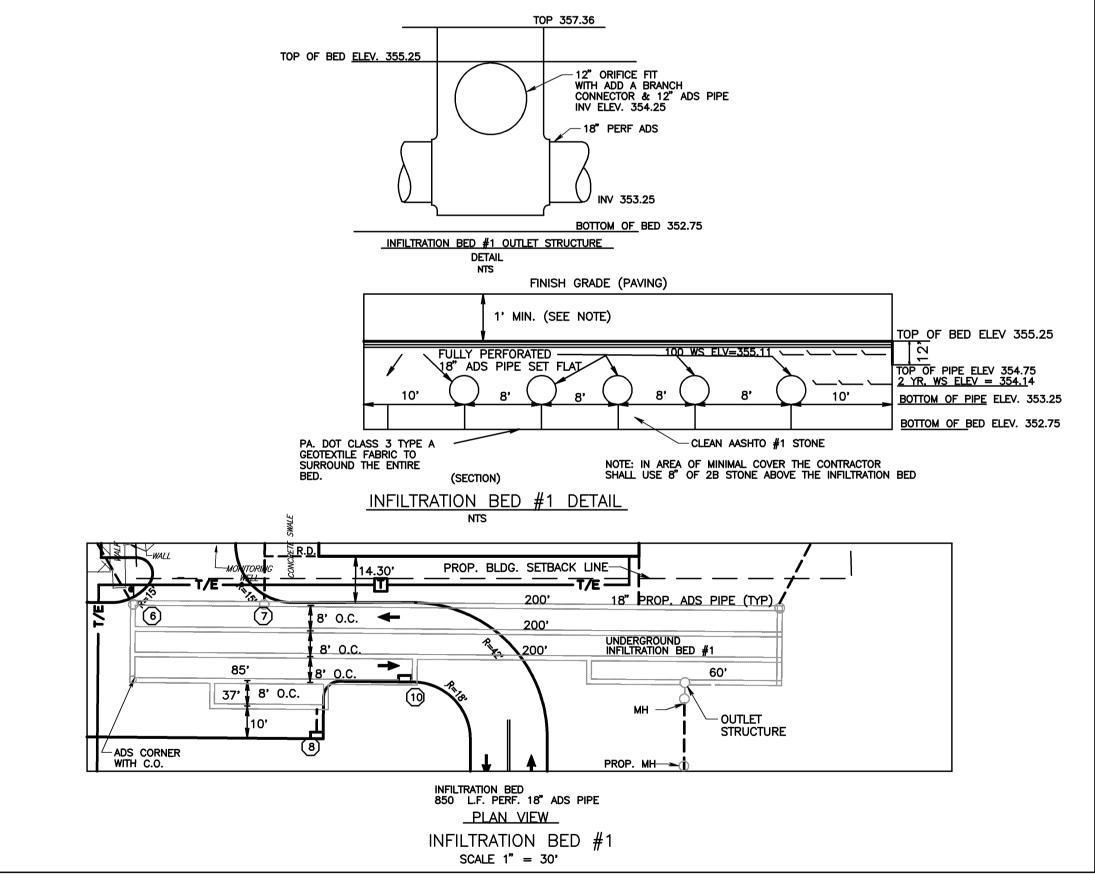
DWG SIZE A SCALE 1:25 SHEET 1 OF 1 DWG NO. 0110-110-009 REV B







THIS IS A TYPICAL DETAIL. A RETAINING WALL DESIGN PLAN MUST BE PREPARED BY A LICENSED GEOTECHNICAL OR STRUCTURAL ENGINEER BASED ON ACTUAL SOIL CONDITIONS
PRESENT ON SITE. THE DESIGN MUST BE SUBMITTED TO WESTTOWN TOWNSHIP FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.



#### CONSTRUCTION SPECIFICATIONS

- LINER TO BE INSTALLED ON TOP, SIDES AND BOTTOM OF BED. CONTRACTOR TO REFER TO MANUFACTURERS SPECIFICATIONS FOR PROPER SEALING OF PIPE CONNECTIONS.

   BASIN LINER = AMOCO 2016 OR APPROVED NON—WOVEN
- BASIN LINER = AMOCO 2016 OR APPROVED NON-WOVEN GEOTEXTILE EQUAL.
   SEEPAGE BED FILTER FABRIC AND STONE SHOULD BE KEPT CLEAN OF SOIL/SEDIMENTATION DURING THE INSTALLATION PROCESS. IF THE INSPECTION INDICATES THAT SOIL HAS ENTERED ANY OF THE INFILTRATION SEEPAGE BEDS, APPROPRIATE MEASURES (I.E. CLEANING THE SOIL/SEDIMENT FROM THE FABRIC, STONE, BED ETC. AND OR REPLACEMENT OF THE FABRIC AND STONE) SHOULD BE ADDRESSED.
   ALL STONE FOR THE CONSTRUCTION OF THE STONE SEEPAGE BEDS SHOULD BE UNIFORMLY GRADED AND CLEAN WASHED AGGREGATE. TOWNSHIP STAFF TO VERIFY MATERIAL IS ACCEPTABLE.
   THE DESIGN AND TOWNSHIP ENGINEER MUST BE CONSULTED SHOULD ANY UNFAVORABLE CONDITIONS BE ENCOUNTERED DURING CONSTRUCTION (I.E. BEDROCK, HIGH WATER TABLE).
   THIS IS A CRITICAL BMP. THE INSTALLATION MUST BE INSPECTED BY
- 6. THIS IS A CRITICAL BMP, THE INSTALLATION MUST BE INSPECTED BY A LICENSED PROFESSIONAL ENGINEER.

### CONSTRUCTION SEQUENCE

- 1. EXCAVATION TO BOTTOM OF SYSTEM TO BE PERFORMED WITH EQUIPMENT FROM OUTSIDE BED AREA OR RUBBER TIRE MACHINE TO AVOID COMPACTION.
- 2. FINE GRADE BOTTOM OF SYSTEM WITH SMALL MACHINE.
  3. SCARIFY SURFACE AND INSTALL GEOTEXTILE ON BOTTOM AND SIDES OF SYSTEM.
  4. INSTALL INLET, STONE AND PIPE DISTRIBUTION SYSTEM
  5. INSTRALL FABRIC OVER TOP OF STONE AREA ENSURING FABRIC OVERLAP IS PROVIDED.

- 6. BACKFILL OVER FABRIC WITH SUBSOIL AND PARKING LOT SUBBABSE. 7. INSTALL PAVING.
- AND MULCH.

  8. INSTALL PLYWOOD SHEET UNDER INLET GRATES. PLYWOOD IS TO REMAIN UNTIL ALL UPSLOPE AREAS ARE STABILIZED WITH VEGETATION. (MINIMUM OF 70% COVER). NOTES:

# INSTALLATION OF INFILTRATION SYSTEMS IS TO BE CHECKED BY THE A LICENSED ENGINEER.

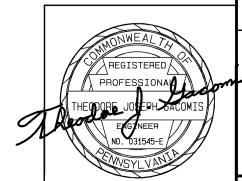
AFTER THE INFILTRATION OR RECHARGE BED IS COMPLETELY INSTALLED, ALL HEAVY CONSTRUCTION EQUIPMENT SHALL BE RESTRICTED FROM THE INFILTRATION OR RECHARGE BED AREA TO ELIMINATE IMPACTS WHICH MAY COMPROMISE IT. IN THE EVENT ANY IMPACTS COMPROMISE THE FUNCTIONALITY OF THE INFILTRATION OR RECHARGE BED, IT MUST BE IMMEDIATELY REPAIRED OR REPLACED TO DESIGN SPECIFICATIONS.

## CONDITIONAL USE DETAIL SHEET

4-30-18 REVISED PER TOWNSHIP ZONING OFFICERS COMMENT OF 4-19-18 LAND DEVELOPMENT THE MALVERN SCHOOL WESTTOWN TOWNSHIP CHESTER COUNTY, PA. Edward B. Walsh & Associates, Inc. Project- 4432 *Date-* 4-2-18 CIVIL ENGINEERS & SURVEYORS Scale - 1" = 30125 Dowlin Forge Rd.

Exton, Pennsylvania 19341

Phone: 610-903-0060



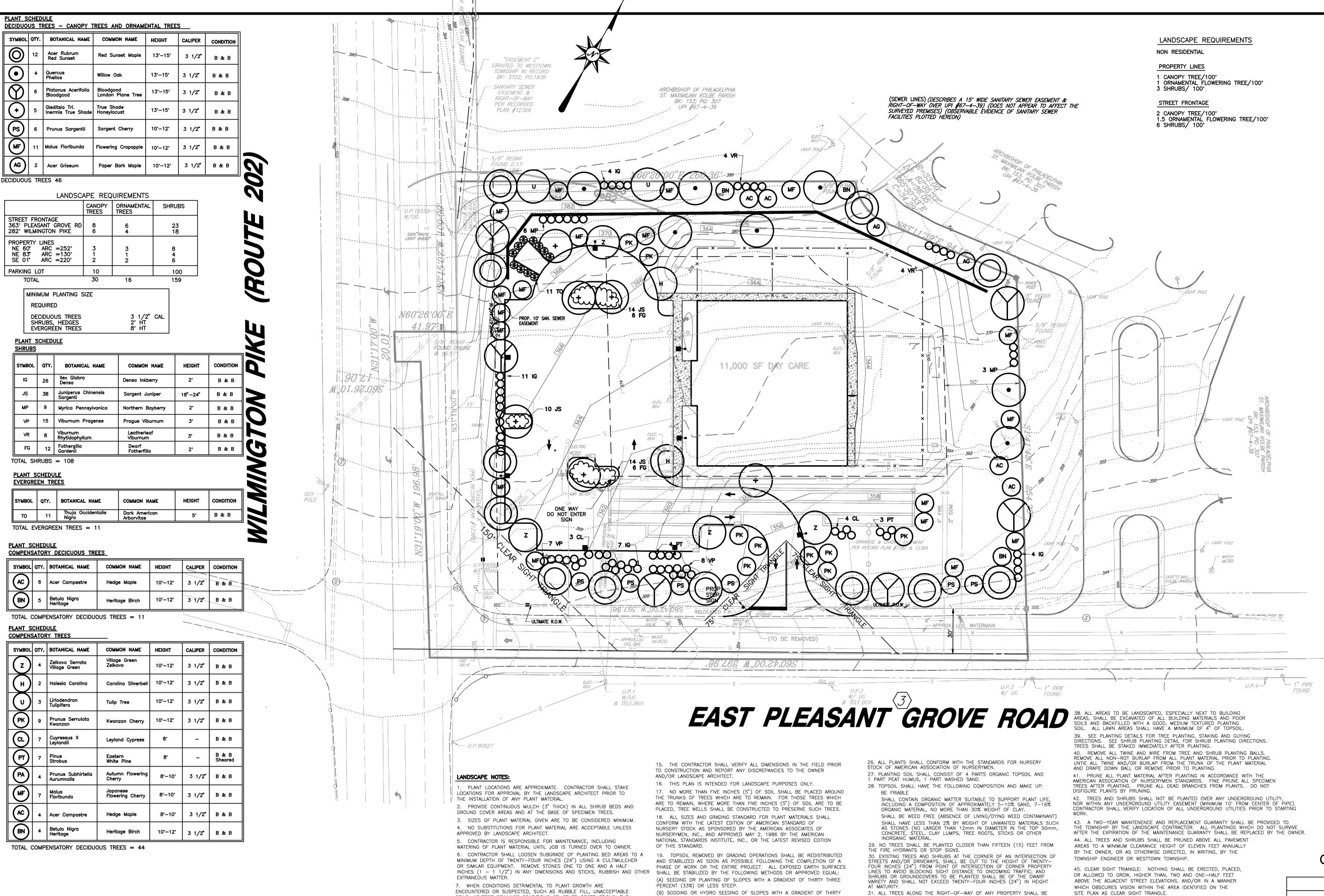
*Drawn*- A.E.

Checked- A.E.

Sheet- 3 OF 5

Fax: 610-903-0080 Plotted: 5/2/2018

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CONDITIONAL USE LANDSCAPE PLAN

4-30-18 REVISED PER TOWNSHIP ZONING OFFICERS COMMENT OF 4-19-18

LAND DEVELOPMENT

WILMINGTON PIKE

WESTTOWN TOWNSHIP CHESTER COUNTY, PA.

Edward B. Walsh & Associates, Inc. CIVIL ENGINEERS & SURVEYORS

125 Dowlin Forge Rd.

Exton, Pennsylvania 19341 Phone: 610-903-0060 Fax: 610-903-0080

*Project*— 4432

Date- 4-9-18

Scale-1"=30"

*Drawn*− DJD

Checked- A.E.

Sheet- 4 OF 5

PLANT SAUCER

-UNDISTURBED/ UNCOMPACTED SOIL

-6" ALL SIDES

PLANTING DETAIL PLAN VIEW

NOT TO SCALE

---- 4" TOPSOIL -- 3" MULCH

TYPICAL DECIDUOUS TREE PLANTING DETAIL NOT TO SCALE

STAKES AND STRAPS MUST BE REMOVED AFTER ONE YEAR

- REMOVE BURLAP FROM TOP 1/3 OF BALL

– 2"X4"X3' WOOD STAKES (3 PER TREE) – PLANTING SOIL

4 PARTS ORGANIC TOPSOIL
1 PART PEAT HUMUS
1 PART SAND

TYPICAL SHRUB PLANTING DETAIL

NOT TO SCALE

LINE (STREET LINE)

FLEXIBLE STRAPS

\_REMOVE BURLAP FROM TOP 1/3 OF BALL

4 PARTS ORGANIC TOPSOIL
1 PART PEAT HUMUS
1 PART SAND

*Plotted:* 5/2/2018 F:\JB\4432\4432-B.pro

SOILS, ADVERSE DRAINAGE CONDITIONS OR OTHER OBSTRUCTIONS, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER AND THE LANDSCAPE ARCHITECT IN WRITING BEFORE PLANTING ANY TREES, SHRUBS OR LAWN

PROPOSED SHRUBS

---- × ----- TREE PROTECTION FENCE

PROPOSED DECIDUOUS TREE

 $\mathcal{C}$ 

COMPENSATORY TREES PROVIDED

COMPENSATORY TREE CALCULATION

44 COMPENSATORY TREES PROVIDED

TOTAL CALIPER INCHES TO BE REMOVED = 608"

1" REPLACEMENT/4" REMOVED = 152" NEW TREE CALIPER REQUIRED

= 44 COMPENSARORY TREES REQUIRED

44 COMPENSATORY TREES

152"/3<sup>1/2</sup>"

8. TREES AND SHRUBS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY; HAVE NORMAL GROWTH HABITS, WELL DEVELOPED, DENSELY FOLIATED BRANCHES, AND VIGOROUS, FIBROUS ROOT SYSTEMS. 9. TREES AND SHRUBS SHALL BE FREE FROM DEFECTS AND INJURIES AND CERTIFIED BY APPROPRIATE FEDERAL AND STATE AUTHORITIES TO BE FREE

FROM DISEASES AND INSECT INFESTATIONS. 10. TREES AND SHRUBS SHALL BE FRESHLY DUG AND NURSERY GROWN. THEY SHALL HAVE BEEN GROWN UNDER CLIMATIC CONDITIONS SIMILAR

TO THOSE IN LOCALITY OF THE PROJECT OR PROPERLY ACCLIMATED TO CONDITIONS OF THE LOCALITY OF THE PROJECT. 11. ALL PLANTING BEDS SHALL BE MULCHED WITH DOUBLE GROUND SHREDDED HARDWOOD MULCH INSTALLED AT A MINIMUM DEPTH OF THREE

12. ALL CANOPY TREES MUST HAVE A SPREAD EQUAL TO FIFTY PERCENT

THREE PERCENT (33%) OR MORE STEEP. 20. ALL TREES TO BE RETAINED SHALL BE PROTECTED DURING CONSTRUCTION FROM EQUIPMENT DAMAGE BY SNOW FENCING OR OTHER EFFECTIVE BARRIERS. 21. THE CONTRACTOR SHALL LABEL EACH TREE AND SHRUB WITH A SECURELY

ATTACHED WATERPROOF TAG BEARING LEGIBLE DESIGNATION OF BOTANICAL AND COMMON NAME. 22. ALL DISTURBED AREAS ARE TO BE SEEDED TO ESTABLISH A VIABLE LAWN. 23. ANY TREE OR SHRUB WITH DIES WITHIN TWENTY FOUR (24) MONTHS OF THE DEDICATION OF PUBLIC IMPROVEMENTS OF OCCUPANCY SHALL BE

REPLACED. AT THE OWNERS EXPENSE. ANY TREE OR SHRUB WHICH, WITHIN THE AFOREMENTIONED TIME PERIOD IS DEEMED. IN THE OPINION OF AN AGENT AUTHORIZED BY THE TOWNSHIP, NOT TO HAVE SURVIVED OR GROWN IN A MANNER CHARACTERISTIC OF ITS TYPE SHALL SHALL BE REPLACED. ANY SUBSTITUTIONS SHALL BE APPROVED BY THE TOWNSHIP. 24. ALL SHRUBS ARE TO BE PLANTED MASSED TOGETHER IN GROUPS IN MULCHED PLANTING BED.

25. ALL STAKES AND STRAPS AT THE TREES MUST BE REMOVED AFTER

35. ALL PARKING LOT TREES ARE TO BE PRUNED TO PROVIDE SEVEN FEET (7') CLEARANCE FROM THE GROUND AT BASE OF TREE. 36. PLANT MATERIAL QUANTITIES LISTED FOR THE CONVENIENCE OF THE CONTRACTOR. ACTUAL NUMBERS OF SYMBOLS SHALL TAKE PRECEDENCE OVER QUANTITIES LISTED IN CASES OF CONFLICT.

37. ALL PLANT MATERIAL SHALL BE OF THE MINIMUM SIZE NOTED ON

THE PLANS. PLANT MATERIAL SHALL BE MEASURED ACROSS THE MAIN BODY OF THE PLANT, NOT TO THE FURTHEST MOST TIPS OF GROWTH.

RIGHT OF WAY LINE.

**GRAPHIC SCALE** 

48. THE LAWN AREA IN BETWEEN THE CURB AND THE BUILDING IS TO BE SOD.

46. ALL TREES AND SHRUBS SHALL BE PRUNED ABOVE ALL PAVEMENT

AREAS TO A MINIMUM CLEARANCE HEIGHT OF ELEVEN FEET ANNUALLY

BY THE OWNER, OR AS OTHERWISE DIRECTED, IN WRITING, BY THE

47. SHRUBS AND TREES SHALL NOT BE PLACED CLOSER THAN 10'

FROM ANY SIDE OR REAR PROPERTY LINE OR 5' FROM THE STREET

TOWNSHIP ENGINEER OR WESTTOWN TOWNSHIP.

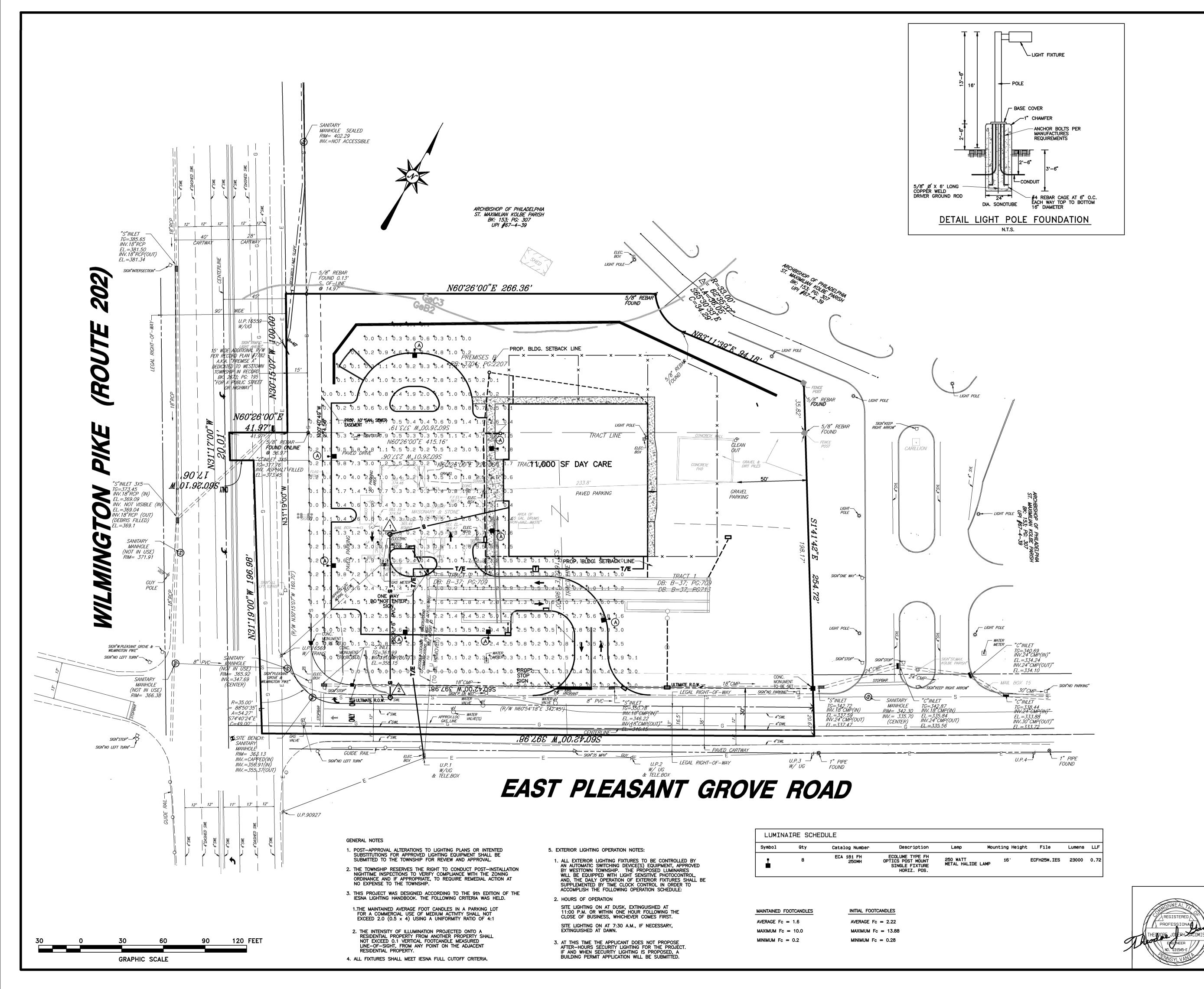
INCHES (3"). (50%) OF THE HEIGHT. 13. ALL DISTURBED LAWN AREAS WITHOUT SHRUB OR GROUND COVER PLANT PROPOSED EVERGREEN TREES MATERIAL SHALL BE PLANTED WITH A BLUE GRASS SEED MIX. 14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXACT

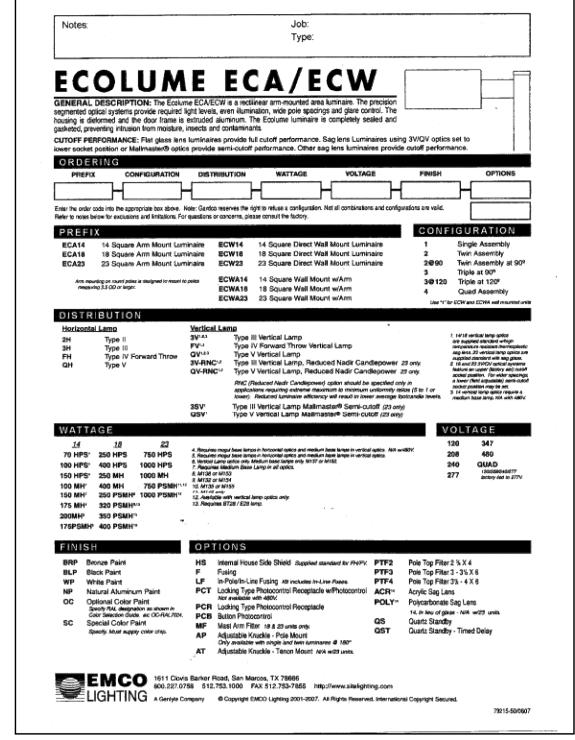
LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND UTILITIES AND

OTHER STRUCTURES BEFORE THE START OF CONSTRUCTION ON THIS PLAN.

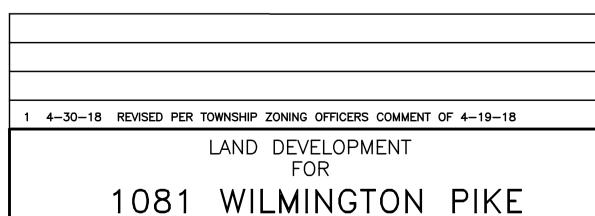
31. ALL TREES ALONG THE RIGHT-OF-WAY OF ANY PROPERTY SHALL BE KEPT TRIMMED NINE FEET (9') ABOVE ANY SIDEWALK AND ELEVEN FEET 32. PROPER SIGHT LINES SHALL BE MAINTAINED AT ALL INTERSECTIONS THERE SHALL BE A CLEAR SIGHT TRIANGLE ALONG THE TERSECTING STREET LINES FROM THE POINT OF INTERSECTION INDICATING ON THE PLAN, THAT IS MAINTAINED FREE AND CLEAR OF STRUCTURES, SIGNS AND OTHER VISUAL OBSTRUCTIONS.

33. ALL TREES TO BE RETAINED WITHIN TWENTY-FIVE FEET (25') OF A BUILDING, PARKING OR OTHER PROPOSED IMPROVEMENTS SHALL BE PROTECTED DURING CONSTRUCTION FROM EQUIPMENT DAMAGE BY SNOW FENCING OR OTHER EFFECTIVE BARRIERS. 34. ALL PLANTING BEDS, LAWN AREAS AND TREE BASES ARE TO BE TOP DRESSED WITH 4" OF ORGANIC TOPSOIL.





## CONDITIONAL USE LIGHTING PLAN



WESTTOWN TOWNSHIF CHESTER COUNTY, PA.

Edward B. Walsh & Associates, Inc. CIVIL ENGINEERS & SURVEYORS

125 Dowlin Forge Rd. Exton, Pennsylvania 19341 Phone: 610-903-0060 Fax: 610-903-0080

*Date*- 10-7-08 Scale - 1" = 30Drawn- LR/MF Checked- A.E. Sheet- 5 OF 5

*Project*- 3474

*Plotted:* 5/2/2018

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