

PRELIMINARY SITE PLANS

NEW LVA CAMPUS

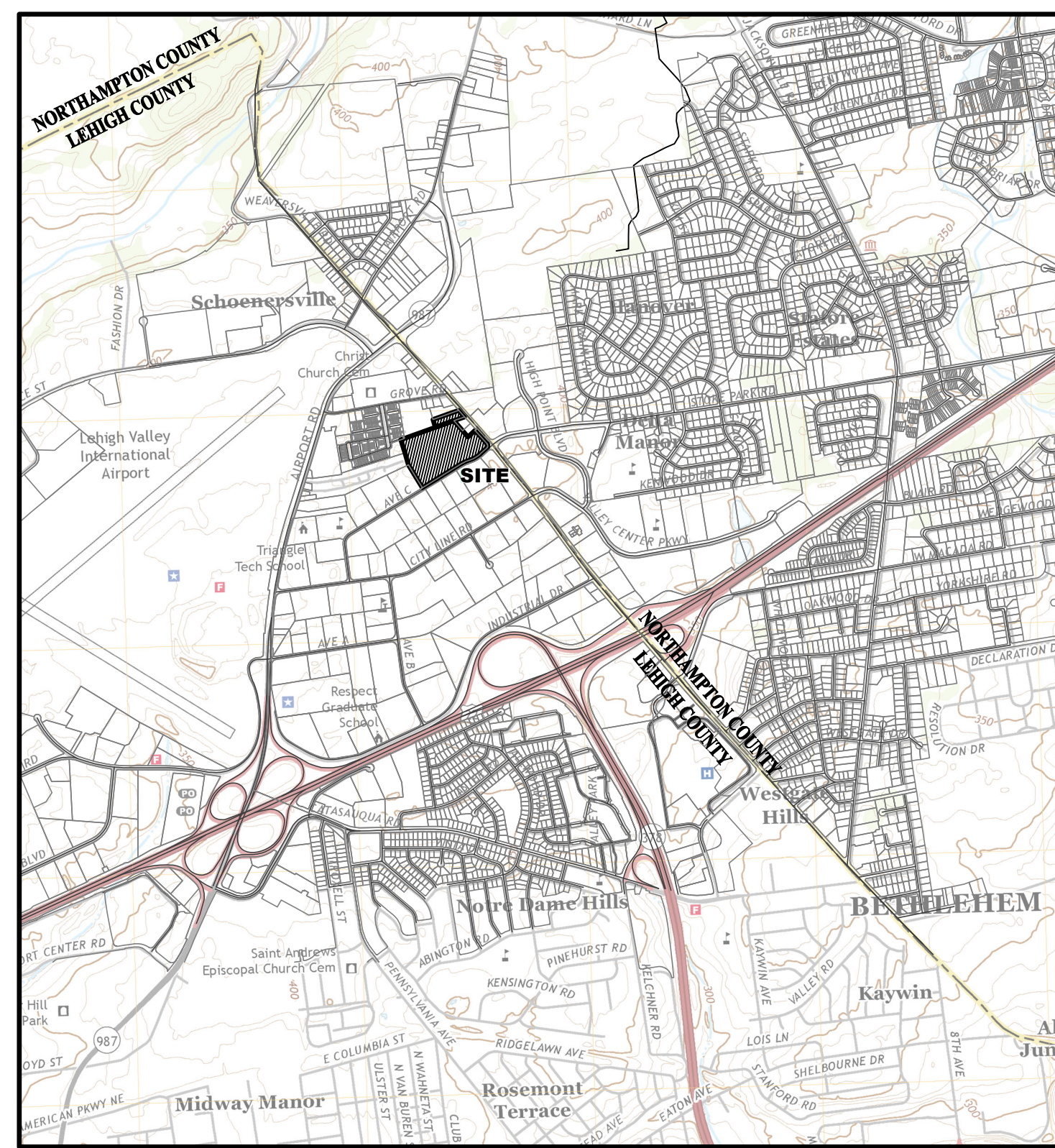
FOR THE LEHIGH VALLEY ACADEMY REGIONAL CHARTER SCHOOL

AT

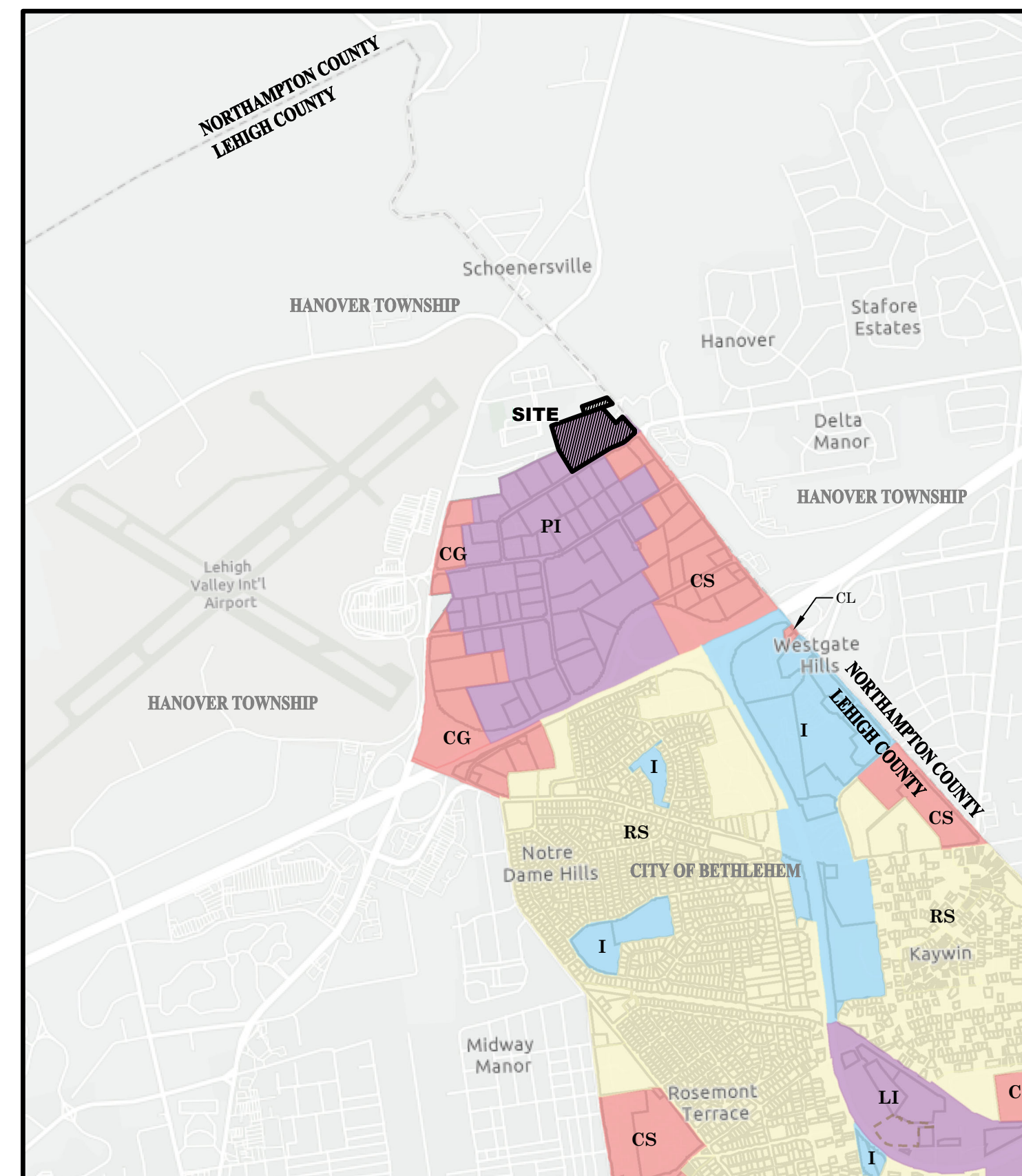
2040 AVENUE C BETHLEHEM, PA 18017

CITY OF BETHLEHEM

LEHIGH COUNTY PENNSYLVANIA



LOCATION MAP
SCALE: 1" = 2,000'



ZONING MAP
SCALE: 1" = 2,000'

- CG - GENERAL COMMERCIAL
- CL - LIMITED COMMERCIAL
- CS - SHOPPING CENTER DISTRICT
- I - INSTITUTIONAL
- LI - LIGHT INDUSTRIAL
- PI - PLANNED INDUSTRIAL
- RS - SINGLE FAMILY RESIDENTIAL

SHEET LIST TABLE		
SHEET NUMBER	SHEET DESCRIPTION	SHEET TITLE
1	00.00	COVER SHEET
2	C1.00	EXISTING CONDITION & DEMOLITION PLAN
3	C2.01	SITE PLAN
4	C3.00	GRADING AND UTILITY PLAN
5	C3.01	GRADING AND UTILITY PLAN
6	C4.00	SITE LIGHTING & LANDSCAPING
7	C5.00	EROSION & SEDIMENT CONTROL PLAN
8	C5.01	EROSION & SEDIMENT CONTROL DETAILS
9	C6.00	SITE CONSTRUCTION DETAILS
10	C6.01	SITE CONSTRUCTION DETAILS
11	C6.02	SITE CONSTRUCTION DETAILS

* DESIGNATES PLANS TO BE RECORDED

CITY NOTES:

- BY SUBMISSION OF THESE PLANS THE ENGINEER ON RECORD CERTIFIES THAT THESE PLANS ARE IN COMPLETE CONFORMANCE WITH THE CITY OF BETHLEHEM STORM WATER MANAGEMENT ORDINANCE.
- IN ORDER TO MAINTAIN CONTINUITY BETWEEN PLAN REVISIONS, ANY CHANGES TO A PREVIOUS PLAN SUBMISSION SHALL BE FLAGGED WITH A TRIANGLE. ANY CHANGES NOT FLAGGED MAY BE CONSIDERED NOT APPROVED. FLAGGED CHANGES SHALL BE REFERENCED TO THE APPROPRIATE REVISION DATE IN THE REVISION BLOCK.
- ACCURATE AS-BUILT PLANS SHALL BE KEPT UP TO DATE DURING THE CONSTRUCTION PROCESS. AT THE COMPLETION OF THE PROJECT RECORD DRAWINGS SHALL BE DEVELOPED FROM THE AS-BUILT PLANS AND SUBMITTED TO THE CITY ENGINEER'S OFFICE. ALL FINAL DRAWINGS SHALL SHOW NORTH AMERICAN DATUM (NAD) 1983 STATE PLANE COORDINATES IN FEET (PENNSYLVANIA SOUTH, PPS ZONE 3702) AND THE DIGITAL FILE SHALL BE IN STATE PLANE FEET COORDINATES AS APPLICABLE. THE HARD COPY OF THE RECORD DRAWINGS SHALL BE IN THE FORM OF A MULAR COPY. THE ENGINEER OF RECORD SHALL CERTIFY (I.E. P.E. STAMPED AND SIGNED) THAT THE RECORD DRAWINGS COMPLY SUBSTANTIALLY WITH THE APPROVED PLAN AND THAT THEY CONFORM TO INDUSTRY STANDARDS. ALL DIGITAL FILES SHALL RESIDE ON PDS COMPATIBLE CD ROM CONTAINING THE DIGITAL REPRESENTATION OF THE FINAL PLAN AS PRESENTED ON THE TWENTY-FOUR (24) INCH BY THIRTY-SIX (36) INCH SHEETS. THE DIGITAL MAP SHALL BE AUTOCAD COMPATIBLE. ALL LAYERS INCLUDED IN THE DIGITAL MAPS SHALL BE THE STANDARDIZED LAYERS PREPARED AND UTILIZED BY THE CITY OF BETHLEHEM TO ENSURE COMPATIBILITY WITH THE CITY'S EXISTING CAD STANDARDS AND AS DESCRIBED IN APPENDIX A OF THE CITY'S SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.
- PROVIDE KNOX BOX AS REQUIRED BY CITY OF BETHLEHEM FIRE DEPARTMENT
- EXISTING AND PROPOSED BUILDINGS SHALL BE FULLY SPRINKLED FOR FIRE PROTECTION

SITE DATA

OWNER/DEVELOPER: LEHIGH VALLEY REGIONAL CHARTER SCHOOL
1560 VALLEY CENTER PARKWAY
BETHLEHEM, PA 18017
PHONE: (610) 866-9660

ENGINEER: TERRAFORM ENGINEERING, LLC
1 EAST BROAD ST, SUITE 330,
BETHLEHEM, PA 18018
PHONE: (484) 895-4632

SITE ADDRESS: 2040 AVENUE C
SITE AREA: 15,015.9 AC (656,085 SF)

PIN: 641940680929 1, TLE: 496114
WARD 13

DEED BOOK: 1577, PAGE: 777

SITE ADDRESS: SHOENERSVILLE RD

SITE AREA: 1.19637 AC (52,114 SF)

PIN: 641941730760 1, TLE: 496114
WARD 13

DEED BOOK: 1503, PAGE: 90

LEHIGH VALLEY PLANNING COMMISSION

REVIEWED BY THE LEHIGH VALLEY PLANNING COMMISSION OF LEHIGH AND NORTHAMPTON COUNTIES.

LVPK STAFF PERSON RESPONSIBLE FOR REVIEW _____ DATE _____

CITY OF BETHLEHEM PLANNING BUREAU

APPROVED BY THE CITY OF BETHLEHEM PLANNING COMMISSION AT ITS MEETING ON _____, 2022.

CHAIRMAN _____ DATE _____

SECRETARY _____ DATE _____

ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN CORRECTLY AND ACCURATELY REPRESENTS THE LANDS OF THE OWNER AND, WHERE APPLICABLE, THE LOTS, BUILDINGS, STREETS, PARKING AREAS, WALKWAYS, AND OTHER STRUCTURES AND IMPROVEMENTS SHOWN THEREON.

TERRY P. DEGROOT, P.E. (PE044255E)

TERRAFORM ENGINEERING, LLC
1 EAST BROAD ST, SUITE 330, BETHLEHEM, PA 18018
ADDRESS _____

STATEMENT OF USE

CONSTRUCTION OF A GYM, MODIFICATION TO PARKING AREAS, AND CONSTRUCTION OF OUTDOOR PLAY AREAS.

ZONING DATA

ZONING DISTRICT: PLANNED INDUSTRIAL DISTRICT (PI DISTRICT)
EXISTING: OFFICE BUILDING; PROPOSED USE: SCHOOL (K-12)

	REQUIRED	EXISTING COND	PROPOSED
MIN. LOT AREA:	1 AC	15,014 AC (654,005 SF)	15,014 AC (654,005 SF)
MIN. LOT WIDTH:	140'	1,119'	1,119'
MIN. BUILDING SETBACKS:			
FRONT YARD:	40'	58'	58'
SIDE YARD (EACH 2 SIDES):	20' (40' BOTH)	26'	26'
REAR YARD:	30'	73'	73'
MAX. BUILDING HEIGHT:	<=60'	<=60'	<=60'
MAX. BUILDING STORIES:	5	2	2
MAX. BUILDING COVERAGE:	60%	9.73% (63,674 SF)	13.63% (89,194 SF)
MAX. IMPERVIOUS COVERAGE:	80%	59.00% (385,855 SF)	58.44% (382,223 SF)
PARKING SETBACK LINE:	25'	36.7'	36.7'

IMPERVIOUS COVERAGE SUMMARY

EXISTING PAVEMENT AREA:	322,181 SF
EXISTING BUILDING AREA:	63,874 SF
TOTAL EXISTING IMPERVIOUS AREA:	386,055 SF
BUILDING AREA ADD:	25,520 SF
NET BUILDING AREA:	89,194 SF
PAVEMENT TO BE REMOVED:	35,017 SF
PAVEMENT TO BE ADDED:	5,865 SF
NET PAVEMENT:	293,029 SF
TOTAL PROPOSED IMPERVIOUS AREA:	382,223 SF

ZONING VARIANCES GRANTED

ON AUGUST 25, 2021, THE CITY OF BETHLEHEM ZONING HEARING BOARD GRANTED A VARIANCE FROM 100.01 (C) TO PERMIT IN THE PI-PLANNED INDUSTRIAL ZONING DISTRICT A SCHOOL, PUBLIC OR PRIVATE, PRIMARY OR SECONDARY, THAT USE OTHERWISE NOT BEING ALLOWED IN THE PI-PLANNED INDUSTRIAL ZONING DISTRICT.

PARKING REQUIREMENTS

STALL SIZE:	9'x18' REQ'D
9'x18' EXISTING:	9'x18' PROPOSED
SCHOOL:	1 SPACE/ 1.5 FACULTY & STAFF MEMBER
	+ 1 SPACE/ EVERY STUDENT IN 12 TH GRADE
EXISTING CONDITION:	= 492 SPACES
PROPOSED CONDITION (PER SITE IMPROVEMENTS):	
275 FACULTY/STAFF MEMBERS	= 184 SPACES
150 STUDENTS STUDENTS IN 12 TH GRADE	= 150 SPACES
TOTAL REQUIRED:	= 334 SPACES
SPACES PROVIDED:	= 359 SPACES
ADA ACCESSIBLE PARKING:	SPACES REQUIRED = 8 SPACES
	SPACES PROVIDED = 8 SPACES
LOADING:	SPACE PROVIDED = 1 SPACE
BICYCLE PARKING:	SPACES REQUIRED = 18 SPACES
	SPACES PROVIDED = 20 SPACES

LEHIGH COUNTY RECORDER OF DEEDS

RECORDED IN THE OFFICE OF THE LEHIGH COUNTY RECORDER OF DEEDS, PENNSYLVANIA, INSTRUMENT # _____ DATE _____

LEHIGH COUNTY RECORDER OF DEEDS DIVISION

CERTIFICATION OF OWNERSHIP

I, _____ OF THE LEHIGH VALLEY REGIONAL CHARTER SCHOOL, BEING DULY SWORN ACCORDING TO LAW, AND ACTING IN MY CAPACITY AS _____ TITLE _____ DEPOSE AND SAY THAT THE ABOVE NAMED CHARTER SCHOOL IS THE TRUE AND LAWFUL OWNER OF PROPERTY KNOWN AS THE LEHIGH VALLEY REGIONAL CHARTER SCHOOL, 2040 AVENUE C, THAT THE ABOVE PROPERTY IS IN PEACEFUL POSSESSION OF SAID CHARTER SCHOOL AND THAT THERE ARE NO SUITS OR LIENS PENDING AFFECTING THE TITLE THEREOF.

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THE PLAN HAS BEEN COMPILED FROM A SURVEY MADE ON THE GROUND, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF CORRECTLY AND ACCURATELY REPRESENTS THE BOUNDARY OF THE LANDS OF THE OWNERS.

KEYSTONE CONSULTING ENGINEERS, PLS
(REGISTRATION NO. PA _____) DATE _____

LEHIGH COUNTY RECORDER OF DEEDS

SIGNATURE _____

NAME AND TITLE _____

SWORN AND SUBSCRIBED TO BEFORE ME THIS _____ DAY OF _____, 2022.

SEAL _____

MY COMMISSION EXPIRES ON _____

PRELIMINARY

PROJECT
NEW LVA CAMPUS

2040 AVENUE C
BETHLEHEM, PA 18017
WARD 13

**LEHIGH VALLEY ACADEMY
REGIONAL CHARTER
SCHOOL**

1560 VALLEY CENTER PARKWAY
BETHLEHEM, PA 18017

PROJECT TEAM

ARCHITECT
ALLOY5 ARCHITECTURE

MEP
DMG DESIGNMANAGEMENTGROUP
2007 RT. 315, SUITE 202
PITSTON, PA 18640

STRUCTURAL
BARRY GETT & ASSOCIATES, INC.
85 S. ROUTE 100
ALLENTOWN, PA 18106

CIVIL
TERRAFORM ENGINEERING, LLC
ONE EAST BROAD ST., SUITE 330
BETHLEHEM, PA 18018

FOOD SERVICE

RESIDENT ENGINEER
DMG ENGINEERING, INC.
ONE EAST BROAD ST., SUITE 310
BETHLEHEM, PA 18018

ACOUSTICS

NO. ISSUE DESCRIPTION SUBMISSIONS DATE

1 CITY COMMENT 05/23/2022

2

3

4

5

6

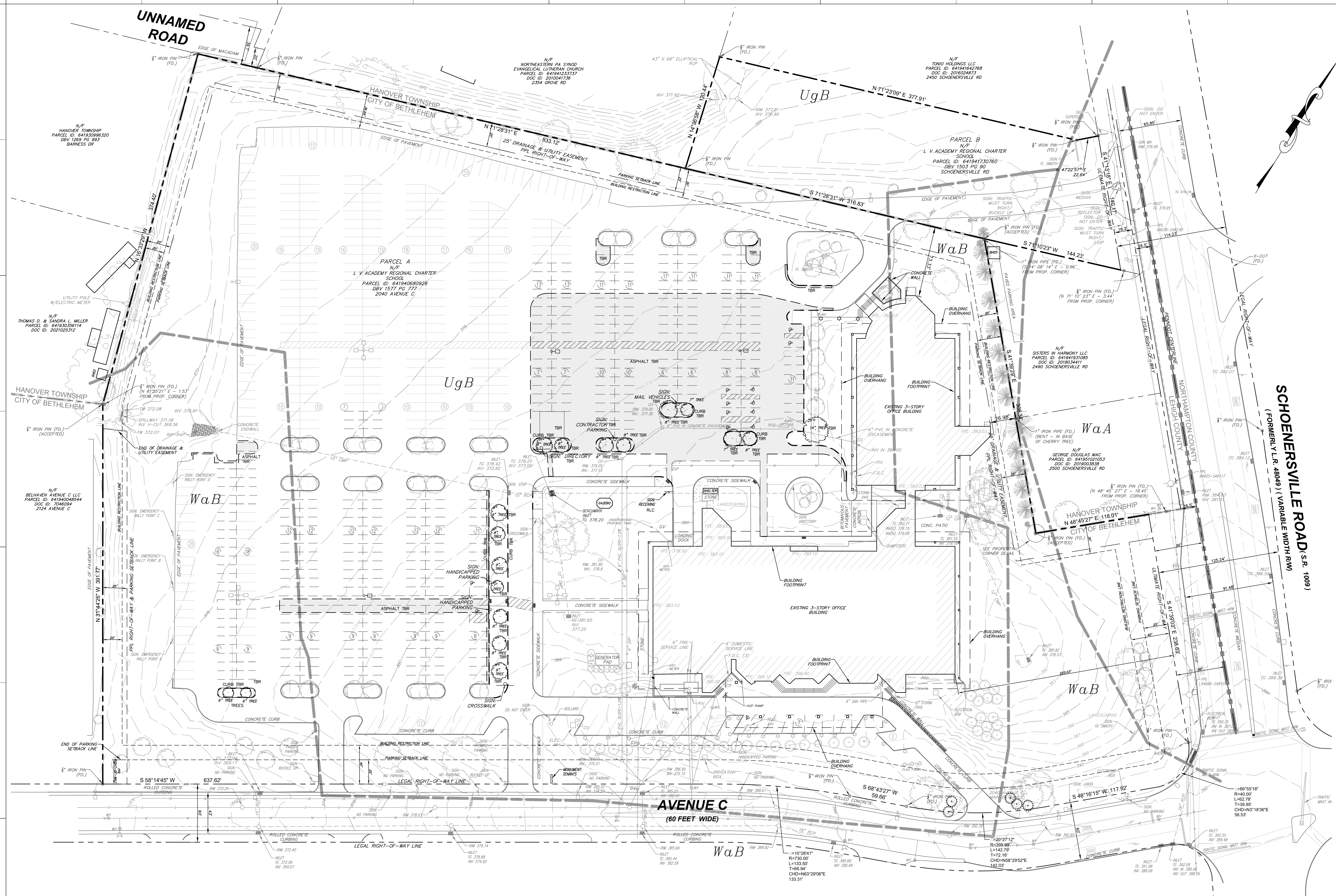
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NO.	ISSUE DESCRIPTION	DATE
1	CITY COMMENT	05/23/2022
2		
3		
4		
5		
6		
7		
8		

DATE	04/01/2022
SCALE	1" = 40'
DRAWN BY	GS
CHECKED BY	TPD
JOB NO.	21051
SHEET 2 OF 11	

PRELIMINARY



GENERAL SURVEY NOTES

1. UTILITY LOCATIONS DEPICTED HEREON ARE APPROXIMATE AND ARE BASED ON FIELD LOCATION OF SURVEY ABOVE-GROUND EVIDENCE DATA MADE AVAILABLE TO THE SURVEYOR PURSUANT TO PA ONE CALL # 2021284289, AND DATA CONTAINED ON PLANS OF RECORD. UNDERGROUND LINES WHOSE PRESENCE IS NOT PLOTTED ON THE SURFACE BY MARKINGS OR STRUCTURES MAY NOT HAVE BEEN SHOWN. LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DETERMINED. THIS PLAN DOES NOT GUARANTEE THAT ADDITIONAL UTILITIES DO NOT EXIST.
2. ALL CONTRACTORS WORKING ON THIS PROJECT SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES/FACILITIES PRIOR TO THE START OF WORK AND SHALL COMPLY WITH THE REQUIREMENTS OF P.L. 853, NO. 237 DECEMBER 1, 1974 AS LAST AMENDED ON NOVEMBER 30, 2024, PENNSYLVANIA ACT 107. XXXX HAS OBTAINED A PA-ONE CALL SERIAL NUMBER 2021284289 FOR NEW EXCAVATION AND DESIGN PURPOSES.

WETLANDS CERTIFICATION

NO WETLANDS ARE PRESENT WITHIN THE PROJECT AREA.

FLOODPLAIN REFERENCE NOTE

THE ENTIRE PROPERTY IS LOCATED IN FLOOD ZONE "X", AREAS DETERMINED TO BE OUTSIDE OF THE 100 YEAR FLOOD PLAN, AS REFERENCED TO NATIONAL FLOOD INSURANCE RATE MAP 4209C0241E, EFFECTIVE DATE OF JULY 6, 2014.

LEGEND

- BOUNDARY LINE
- ADJOINING LOT LINE
- RIGHT-OF-WAY
- IRON PIN/CONCRETE MONUMENT
- BUILDING RESTRICTION LINE
- EASEMENT
- FENCE
- SEAL
- CURBING
- BUILDING
- STORM PIPE/INLET/MANHOLE
- SANITARY PIPE/MANHOLE/CLEAN OUT
- WATER LINE/HYDRANT/VALVE
- GAS LINE & VALVE
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC

LEGEND

- UTILITY POLE
- LIGHT POLE
- TREES/SHRUBS
- TREE LINE
- CONTOUR
- SPOT
- SOILS
- SOIL CLASSIFICATIONS
- UgB URBAN LAND
0%–5% SLOPES
- WaA WASHINGTON SILT LOAM
0%–5% SLOPES
HYDROLOGIC SOIL GROUP B
- WaB WASHINGTON SILT LOAM
3%–8% SLOPES
HYDROLOGIC SOIL GROUP B

DEMOLITION LEGEND

- BUILDING/CANOPY DEMO
- PAVING DEMO
- TREE/SHRUB DEMO
- TO BE ABANDONED
- TO BE REMOVED
- TO BE REMOVED & RELOCATED

PA ONE CALL NOTE

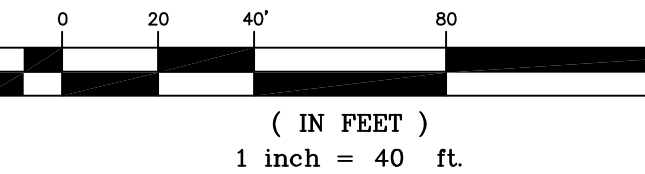
"PURSUANT TO THE REQUIREMENTS OF ACT 287 OF 1974 AND AS LAST AMENDED BY ACT 181 OF 2008 THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS AND/OR ABOVE-GROUND EXAMINATIONS OF THE SITE. COMPLETENESS, ACCURACY, LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. THE CONTRACTORS, AT LEAST THREE (3) DAYS PRIOR TO PERFORMING ANY EXCAVATIONS, SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS AND DEPTHS OF ALL UNDERGROUND FACILITIES LOCATED WITHIN THE VICINITY OF THE WORK SITE IN ACCORDANCE WITH ACT 181. (PA ONE CALL SYSTEM, INC. 1-800-242-1776)."

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

GENERAL PLAN TEXT NOTE:

VERTICAL TEXT INDICATES PROPOSED FEATURES

GRAPHIC SCALE



**LEHIGH VALLEY ACADEMY
REGIONAL CHARTER
SCHOOL**

1560 VALLEY CENTER PARKWAY
BETHLEHEM, PA 18017

PROJECT TEAM

ARCHITECT
ALLOY5 ARCHITECTURE

MEP
DMG DESIGNMANAGEMENTGROUP
2007 RT. 315, SUITE 202
PITSTON, PA 18640

STRUCTURAL
BARRY GETT & ASSOCIATES, INC.
85 S. ROUTE 100
ALLENTOWN, PA 18106

CIVIL
TERRAFORM ENGINEERING, LLC
ONE EAST BROAD ST., SUITE 330
BETHLEHEM, PA 18018

FOOD SERVICE
RESIDENT ENGINEER
DWAY ENGINEERING, INC.
ONE EAST BROAD ST., SUITE 310
BETHLEHEM, PA 18018

ACOUSTICS

NO.	ISSUE DESCRIPTION	DATE
1	CITY COMMENT	05/23/2022
2		
3		
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**ALLOY5
ARCHITECTURE**

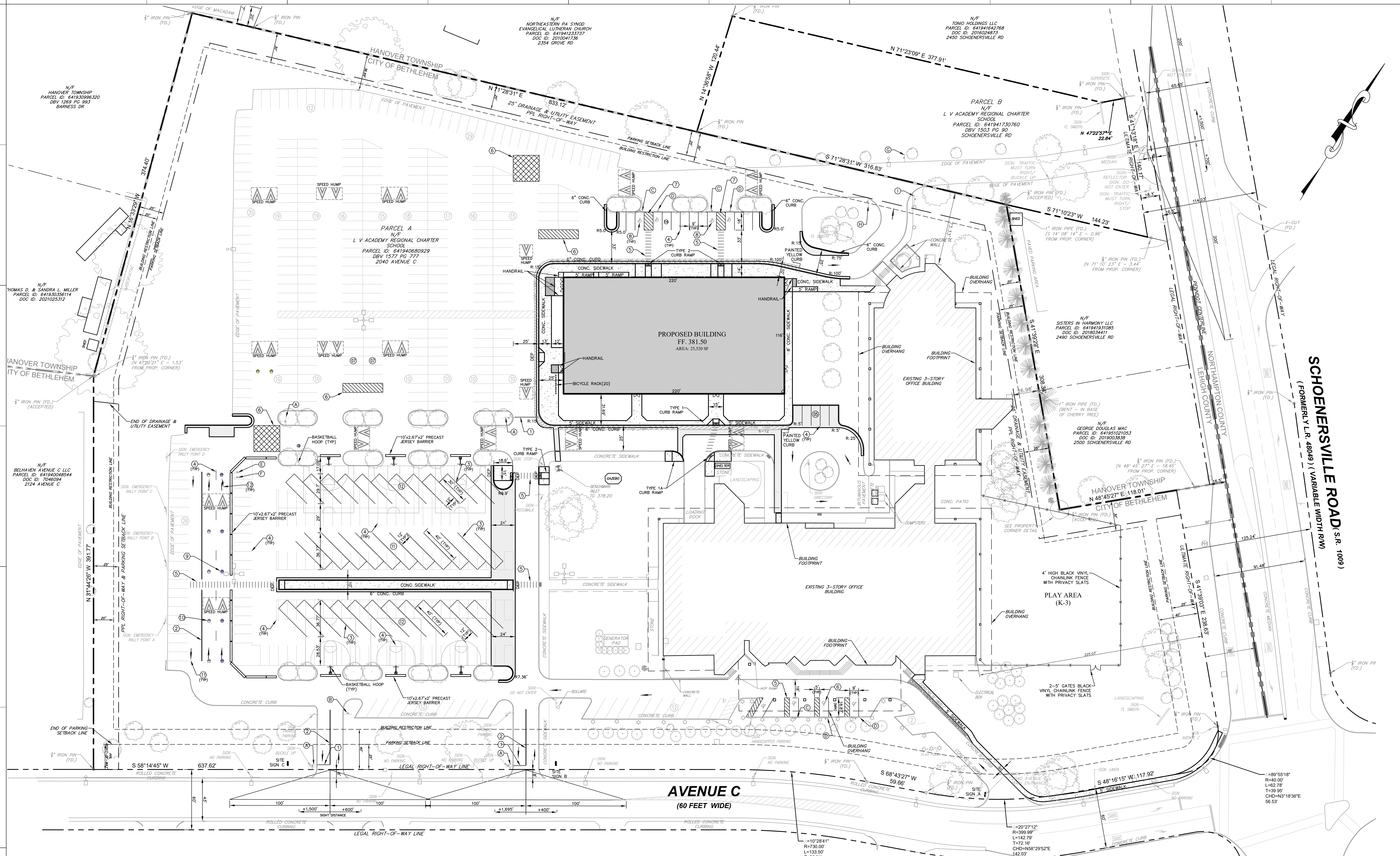
ALLOY5 ARCHITECTURE
530 WEST BROAD STREET
BETHLEHEM, PA 18018
610.419.0055

SHEET TITLE

SITE PLAN

DATE	04/01/2022
SCALE	1" = 40'
DRAWN BY	GS
CHECKED BY	TPD
JOB NO.	21051
SHEET 3 OF 11	

T:\PROJECTS\2021\LEHIGH VALLEY ACADEMY\ALLOY5\02 SITE PLAN



SITE DATA
OWNER/DEVELOPER: LEHIGH VALLEY REGIONAL CHARTER SCHOOL
1560 VALLEY CENTER PARKWAY
BETHLEHEM, PA 18017
PHONE: (610) 866-9660

ENGINEER: TERRAFORM ENGINEERING, LLC
1 EAST BROAD ST., SUITE 330,
BETHLEHEM, PA 18018
PHONE: (484) 995-4632

SITE ADDRESS: 2040 AVENUE C
SITE AREA: 15,06159 AC (656,085 SF)

PIN: 641940680929 1, TILE: 496114
WARD 13

DEED BOOK: 1577, PAGE: 777
SITE ADDRESS: SHOENERSVILLE RD
SITE AREA: 1.19637 AC (52.114 SF)

PIN: 641941730760 1, TILE: 496114
WARD 13
DEED BOOK: 1503, PAGE: 90

ZONING DATA
ZONING DISTRICT: PLANNED INDUSTRIAL DISTRICT (PI DISTRICT)
EXISTING: OFFICE BUILDING; PROPOSED USE: SCHOOL (K-12)

	REQUIRED	EXISTING COND	PROPOSED
MIN. LOT AREA:	1 AC	15,014 AC (654,005 SF)	15,014 AC (654,005 SF)
MIN. LOT WIDTH:	140'	1,119'	1,119'
MIN. BUILDING SETBACKS:			
FRONT YARD:	40'	58'	58'
SIDE YARD (EACH 2 SIDES):	20' (40' BOTH)	26'	26'
REAR YARD:	30'	73'	73'
MAX. BUILDING HEIGHT:	60'	540'	540'
MAX. BUILDING STORIES:	5	2	2
MAX. BUILDING COVERAGE:	6%	9.73% (83,674 SF)	13.63% (89,194 SF)
MAX. IMPERVIOUS COVERAGE:	80%	59.00% (385,855 SF)	58.44% (382,223 SF)
PARKING SETBACK LINE:	25'	36.7'	36.7'

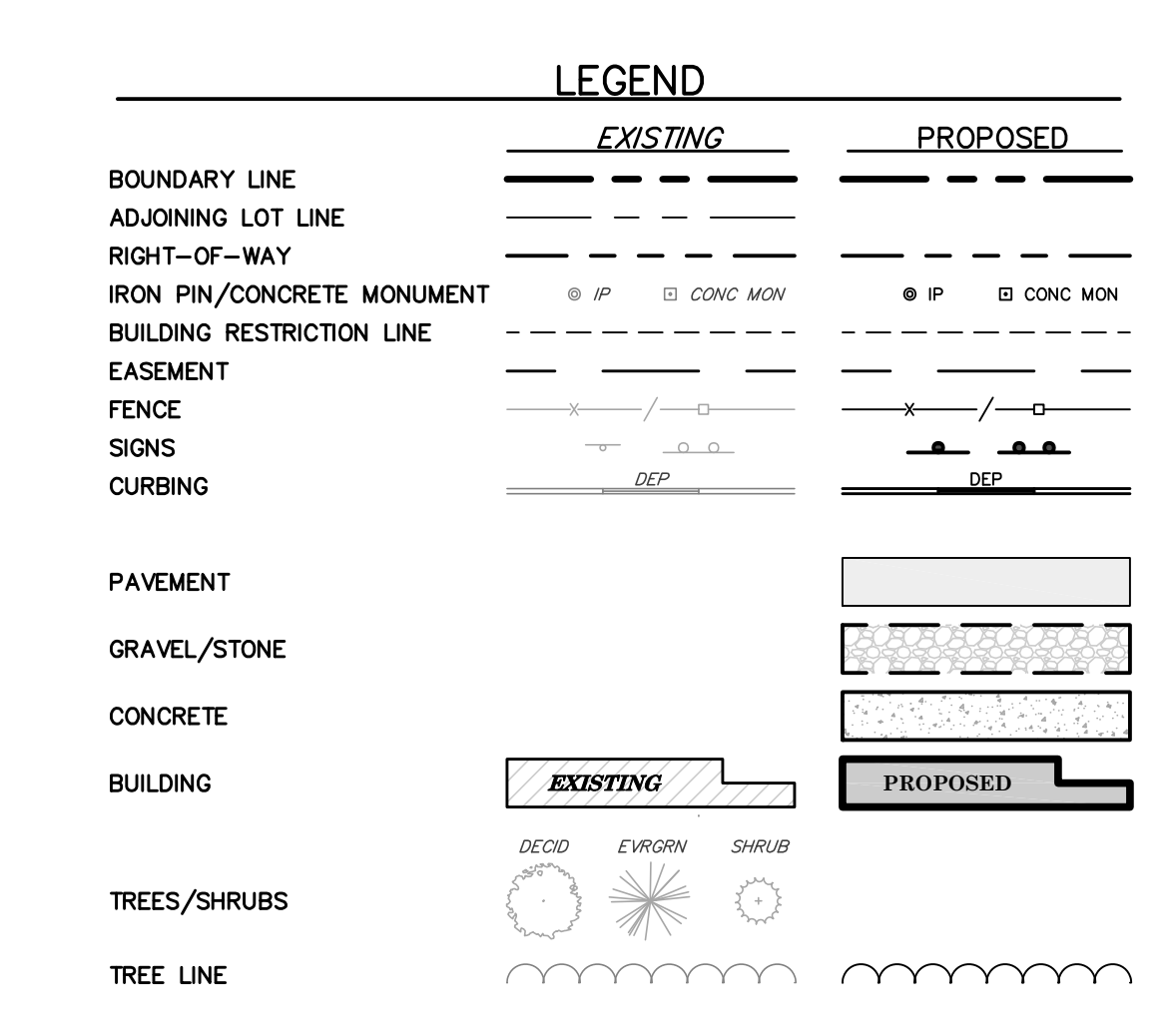
PARKING REQUIREMENTS
STALL SIZE: 9'x18' REQ'D
SCHOOL: 1 SPACE/1.5 FACULTY & STAFF MEMBER
+ 1 SPACE/EVERY STUDENT IN 12TH GRADE
EXISTING CONDITION = 692 SPACES
PROPOSED CONDITION (PER SITE IMPROVEMENTS)
275 FACULTY/STAFF MEMBERS = 184 SPACES
150 STUDENTS STUDENTS IN 12TH GRADE = 150 SPACES

IMPERVIOUS COVERAGE SUMMARY
EXISTING PAVEMENT AREA: 322,181 SF
EXISTING BUILDING AREA: 63,674 SF
TOTAL EXISTING IMPERVIOUS AREA: 385,855 SF
BUILDING AREA ADDED: 25,520 SF
NET BUILDING AREA: 89,194 SF
PAVEMENT TO BE REMOVED: 35,017 SF
PAVEMENT TO BE ADDED: 5,865 SF
NET PAVEMENT: 293,022 SF
TOTAL PROPOSED IMPERVIOUS AREA: 382,223 SF

ADA ACCESSIBLE PARKING:
SPACES REQUIRED = 8 SPACES
SPACES PROVIDED = 8 SPACES

LOADING:
SPACE PROVIDED = 1 SPACE

BICYCLE PARKING:
SPACES REQUIRED = 18 SPACES
SPACES PROVIDED = 20 SPACES



PAVEMENT MARKINGS

SYM	MUTCD / PENNDOT SERIES	DESCRIPTION
1	R1-1	STOP BAR (12" WHITE) **
2	R3-1	DOUBLE YELLOW LINES *
3	R3-2	SINGLE YELLOW LINE *
4	R7-1	SINGLE WHITE LINE *
5	R7-2	CROSSWALK (6" WIDE MIN, 12" WHITE LINES @ 36" C-C) **
6	R3-BA	ACCESS AISLE OR CORE AREA (4" SINGLE WHITE OUTLINE & 8" WHITE LINES @ 48" C-C @ 45°)
7	R3-2	CROSSWALK (6" WIDE MIN, 12" WHITE LINES @ 36" C-C) **
8	R6-1R	HC ACCESS AISLE (4" SINGLE BLUE OUTLINE & 4" BLUE LINES @ 36" C-C @ 45°) *
9	R6-1L	ACCESSIBILITY SYMBOL (WHITE SYMBOL ON 48"x48" BLUE BACKGROUND) *
10	K-3	YELLOW PAW MARKING (K-3) *
11	E-12	BLUE PAW MARKING (E-12) *
12	T-1	STRAIGHT ARROW (8" LONG, WHITE) **
13	T-2	TURNING ARROWS (12" LONG, WHITE) **

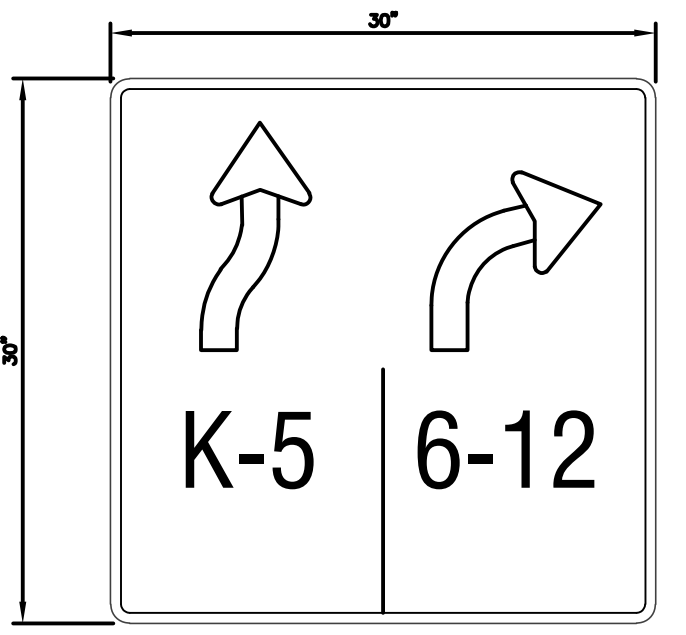
* PAVEMENT MARKINGS TO BE LATEX, WATERBOURNE EMISSION, LEAD AND CHROMATE FREE, READY MIXED, COMPLYING WITH F3 TT-P-1952, TYPE II, WITH DRYING TIME OF LESS THAN 45 MINUTES, AS DESCRIBED IN PENNDOT PUB. 408, SECTION 964.
** HOT THERMOPLASTIC PAVEMENT MARKINGS, AS DESCRIBED IN PENNDOT PUB. 408, SECTION 960, MATERIALS AS PER BULLETIN 15.

PA ONE CALL NOTE
* PURSUANT TO THE REQUIREMENTS OF ACT 287 OF 1974 AND AS LAST AMENDED BY ACT 181 OF 2008, THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS AND/OR ABOVE-GROUND EXAMINATIONS OF THE SITE. COMPLETENESS, ACCURACY, LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. THE CONTRACTORS, AT LEAST THREE (3) DAYS PRIOR TO PERFORMING ANY EXCAVATIONS, SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS AND DEPTHS OF ALL UNDERGROUND FACILITIES LOCATED WITHIN THE VICINITY OF THE WORK SITE IN ACCORDANCE WITH ACT 181. (PA ONE CALL SYSTEM, INC. 1-800-242-1776).

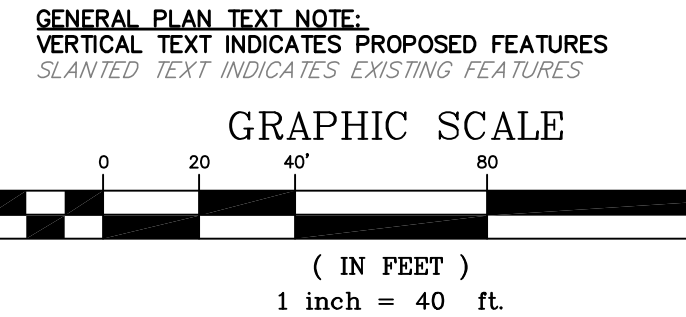
SIGNAGE SCHEDULE

SYM	MUTCD / PENNDOT SERIES	SIZE	TEXT
1	R1-1	30"x30"	STOP
2	R3-1	24"x24"	NO RIGHT TURN
3	R3-2	12"x18"	RESERVED PARKING
4	R7-B	30"x30"	RESERVED VAN ACCESSIBLE PARKING
5	R3-BA	30"x30"	LANE USE CONTROL SIGN (SEE DETAIL)
6	W7-1	30"x30"	SPEED HUMP
7	R3-2	24"x24"	NO LEFT TURN
8	R6-1R	36"x24"	ONE WAY RIGHT
9	R6-1L	36"x24"	ONE WAY LEFT

NOTES:
1. ALL SIGNS ARE TO BE FLAT SHEET ALUMINUM.
2. REFERENCE TO PENNDOT 408 SECTION LATEST EDITION.
3. ALL SIGNS TO BE MOUNTED ON A PENNDOT TYPE B BREAKAWAY POST UNLESS OTHERWISE NOTED.
4. SEE SHEET C8.01 FOR SIGN E.



SIGN E
N.T.S.



PRELIMINARY

5/24/2022 8:57:19 AM © COPYRIGHT ALLOY5 ARCHITECTURE

**LEHIGH VALLEY ACADEMY
REGIONAL CHARTER
SCHOOL**

1500 VALLEY CENTER PARKWAY
BETHLEHEM, PA 18017

PROJECT TEAM

ARCHITECT
ALLOY5 ARCHITECTURE

MEP
DMG DESIGNMANAGEMENTGROUP
2007 RT. 315, SUITE 202
PITSTON, PA 18640

STRUCTURAL
BARRY GETT & ASSOCIATES, INC.
85 S. ROUTE 100
ALLENTOWN, PA 18106

CIVIL
TEROFORM ENGINEERING, LLC
ONE EAST BROAD ST., SUITE 330
BETHLEHEM, PA 18018

FOOD SERVICE

RESIDENT ENGINEER
DMV ENGINEERING, INC.
ONE EAST BROAD ST., SUITE 310
BETHLEHEM, PA 18018

ACOUSTICS

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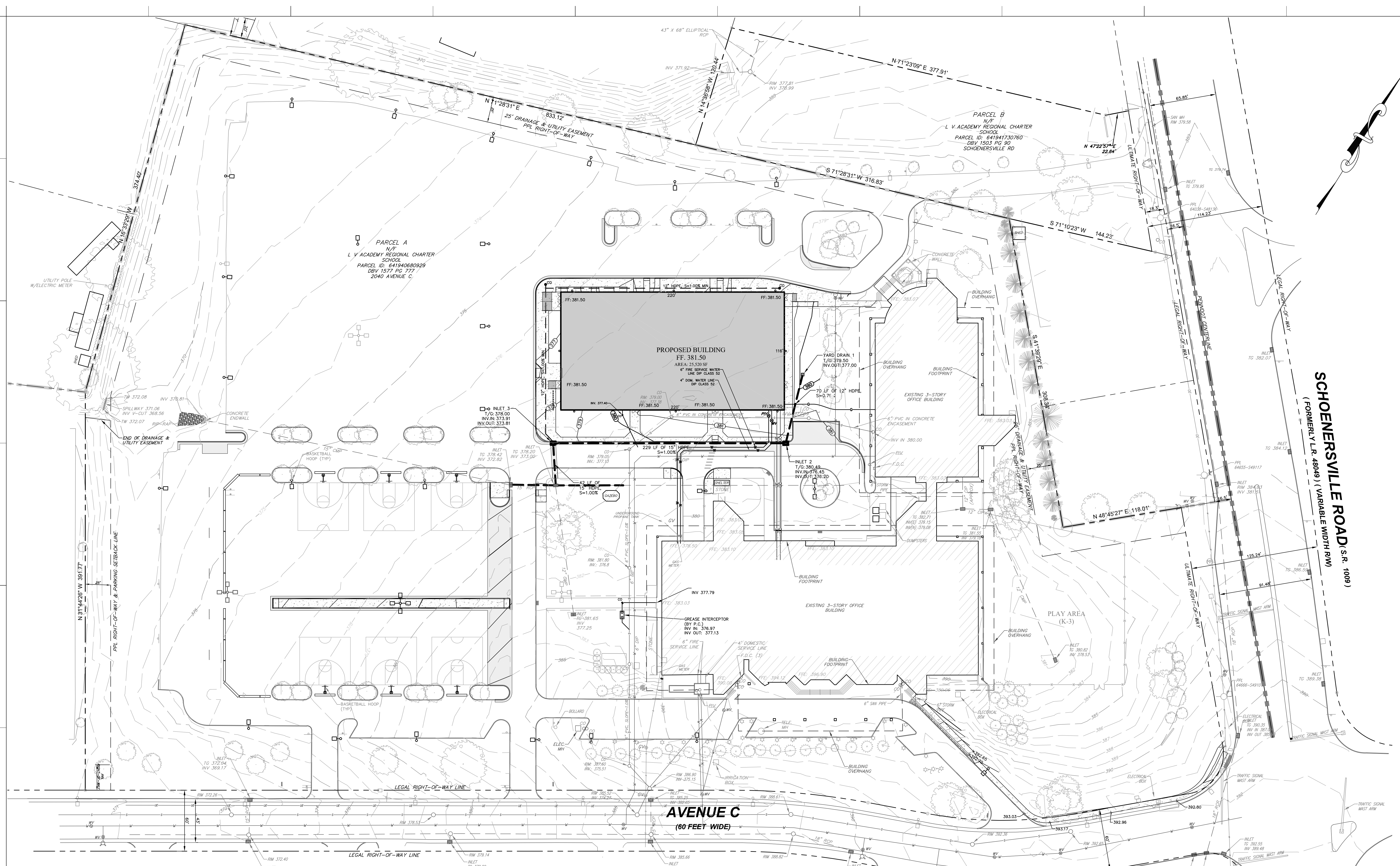
REGISTRATION
ALLOY5
ARCHITECTURE

ALLOY5 ARCHITECTURE
530 WEST BROAD STREET
BETHLEHEM, PA 18018
610.416.4005

SHEET TITLE
GRADING AND UTILITY PLAN

DATE	04/01/2022
SCALE	1" = 40'
DRAWN BY	GS
CHECKED BY	TPD
JOB NO.	21051
SHEET 4 of 11	

PRELIMINARY



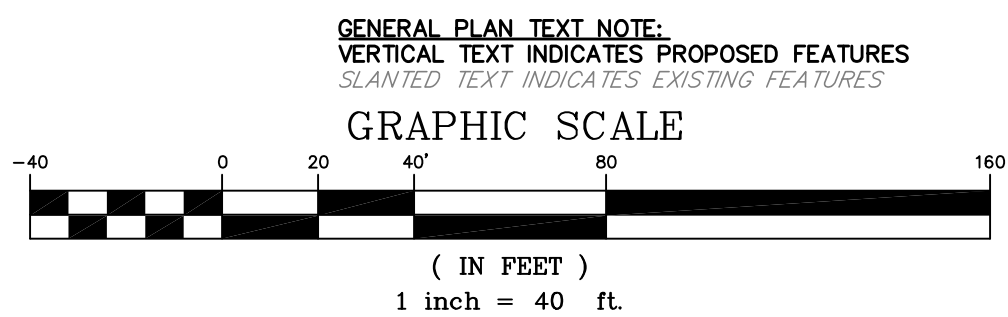
	EXISTING	PROPOSED
BOUNDARY LINE	---	---
ADJOINING LOT LINE	---	---
RIGHT-OF-WAY	---	---
IRON PIN/CONCRETE MONUMENT	IP	IP
BUILDING RESTRICTION LINE	---	---
EASEMENT	---	---
FENCE	---	---
SIGNS	---	---
CURBING	---	---
PAVEMENT	---	---
GRAVEL/STONE	---	---
CONCRETE	---	---
BUILDING	---	---
STORM PIPE/INLET/MANHOLE	---	---
SANITARY PIPE/INLET/MANHOLE	---	---
CLEAN OUT	---	---
WATER LINE/HYDRANT/VALVE	---	---
GAS LINE & VALVE	---	---
OVERHEAD ELECTRIC	---	---
UNDERGROUND ELECTRIC	---	---
UTILITY POLE	---	---
LIGHT POLE	---	---
TREES/SHRUBS	---	---
TREE LINE	---	---

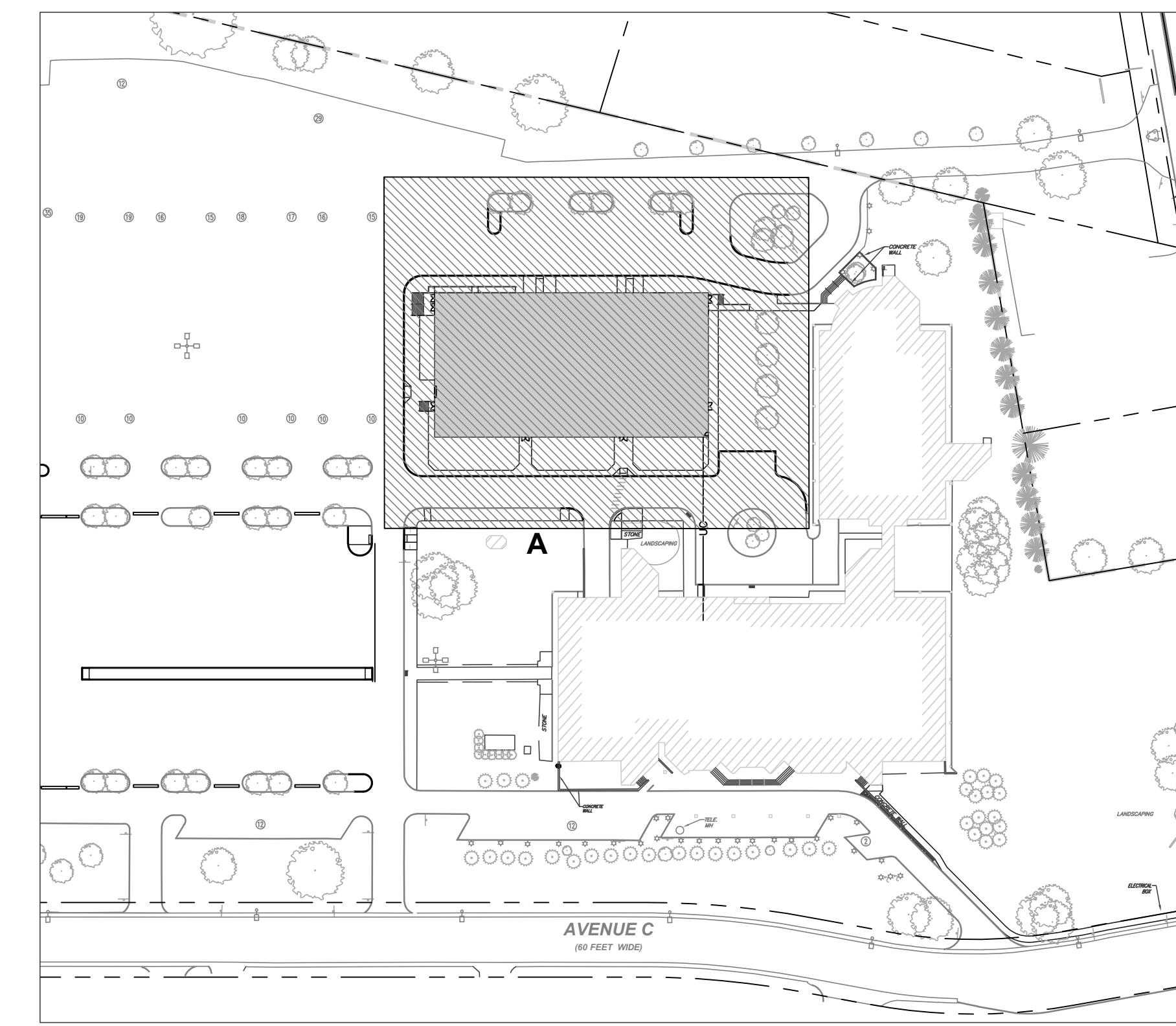
CITY NOTES
ANY CHANGE IN THE LOCATION OF THE FIRE DEPARTMENT CONNECTION MUST BE APPROVED BY THE CITY OF BETHLEHEM FIRE DEPARTMENT.

NOTES
INLET MARKER NOTE
ALL PUBLIC INLETS SHOULD HAVE INLET MARKERS. THE DESIGN OF THE INLET MARKERS SHALL BE APPROVED BY THE CITY ENGINEER.
STORM WATER NOTES
THE MAINTENANCE OF STORM WATER FACILITIES SHALL BE THE OWNER'S RESPONSIBILITY. THE OWNER'S DEED AND THE DEED TO ANY SUBSEQUENT OWNER, SHALL NOTE THAT THE OWNER SHALL ACCEPT THE MAINTENANCE RESPONSIBILITIES. THE CITY OF BETHLEHEM SHALL BE PERMITTED TO INSPECT THE STORM WATER FACILITIES ON AT LEAST AN ANNUAL SCHEDULE TO ENSURE THAT ANY NECESSARY CORRECTIVE WORK IS PERFORMED IN A TIMELY MANNER.
THE DRAINAGE EASEMENT PROVIDES FOR THE FLOW OF STORM WATER ACROSS LOTS, AND MAY NOT BE ALTERED WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER. NO OBSTRUCTIONS SUCH AS PLANTING BERRIES OR FENCES MAY BE INSTALLED IN THE DRAINAGE EASEMENTS AREAS WITHOUT SUFFICIENT PROVISION FOR THE PASSAGE OF STORM WATER, AND ANY SUCH PROPOSED PROVISION SHALL BE APPROVED IN WRITING BY THE CITY ENGINEER.
AS-BUILT NOTE
ACCURATE AS-BUILT PLANS SHALL BE KEPT UP TO DATE DURING THE CONSTRUCTION PROCESS. AT THE COMPLETION OF THE PROJECT RECORD DRAWINGS SHALL BE DEVELOPED FROM THE AS-BUILT PLANS AND SUBMITTED TO THE CITY ENGINEER'S OFFICE. ALL FINAL DRAWINGS SHALL SHOW NORTH AMERICAN DATUM (NAD) 1983 STATE PLANE COORDINATES IN FEET (PENNSYLVANIA SOUTH, FIPS ZONE 3702) AND THE DIGITAL FILE SHALL BE IN STATE PLANE FEET COORDINATES AS APPLICABLE. THE HARD COPY OF THE RECORD DRAWINGS SHALL BE IN THE FORM OF A MYLAR COPY. THE ENGINEER OF RECORD SHALL CERTIFY (I.E. STAMPED AND SIGNED) THAT THE RECORD DRAWINGS COMPLY SUBSTANTIALLY WITH THE APPROVED PLAN AND THAT THEY CONFORM TO INDUSTRY STANDARDS. ALL DIGITAL FILES SHALL RESIDE ON PDS CONTAINING THE DIGITAL REPRESENTATION OF THE FINAL PLAN AS PRESENTED ON THE TWENTY-FOUR (24) INCH BY THIRTY-SIX (36) INCH SHEETS. THE DIGITAL MAP SHALL BE AUTOCAD COMPATIBLE. ALL LAYERS INCLUDED IN THE DIGITAL MAPS SHALL BE THE STANDARDIZED LAYERS PREPARED AND UTILIZED BY THE CITY OF BETHLEHEM TO ENSURE COMPATIBILITY WITH THE CITY'S EXISTING CAD STANDARDS AND AS DESCRIBED IN APPENDIX A OF THE CITY'S SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.

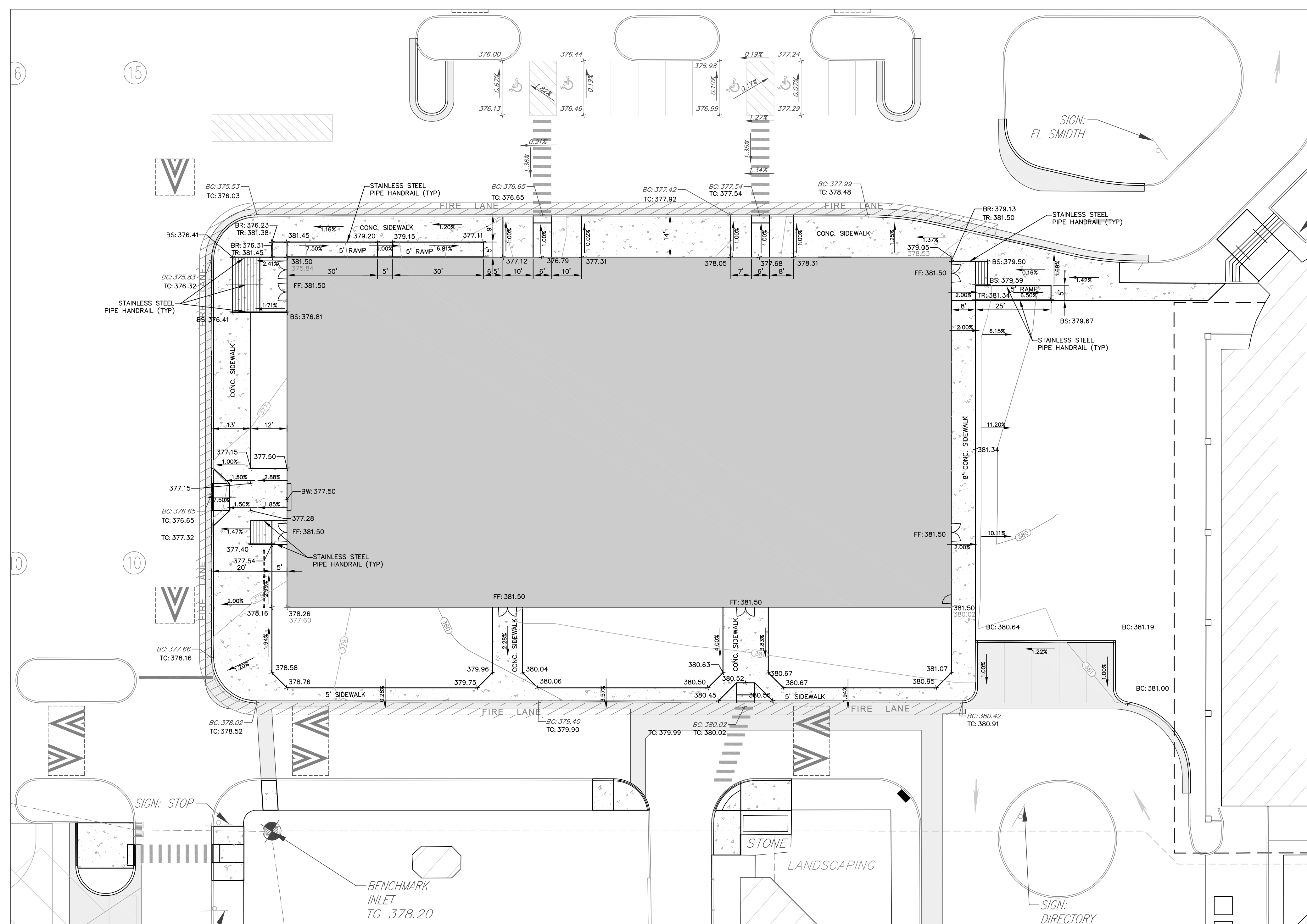
PA ONE CALL NOTE
PURSUANT TO THE REQUIREMENTS OF ACT 287 OF 1974 AND AS LAST AMENDED BY ACT 181 OF 2008, THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS AND/OR ABOVE-GROUND EXAMINATIONS OF THE SITE. COMPLETENESS, ACCURACY, LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. THE CONTRACTORS, AT LEAST THREE (3) DAYS PRIOR TO PERFORMING ANY EXCAVATIONS, SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS AND DEPTHS OF ALL UNDERGROUND FACILITIES LOCATED WITHIN THE VICINITY OF THE WORK SITE IN ACCORDANCE WITH ACT 181. (PA ONE CALL SYSTEM, INC. 1-800-242-1776).

CALL BEFORE YOU DIG!
PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS NOTICE FOR CONSTRUCTION PHASE AND 10 WORKING DAYS IN DESIGN STAGE - STOP CALL PRIOR TO PERFORMING ANY EXCAVATIONS, SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS AND DEPTHS OF ALL UNDERGROUND FACILITIES LOCATED WITHIN THE VICINITY OF THE WORK SITE IN ACCORDANCE WITH ACT 181. (PA ONE CALL SYSTEM, INC. 1-800-242-1776)





KEY MAP



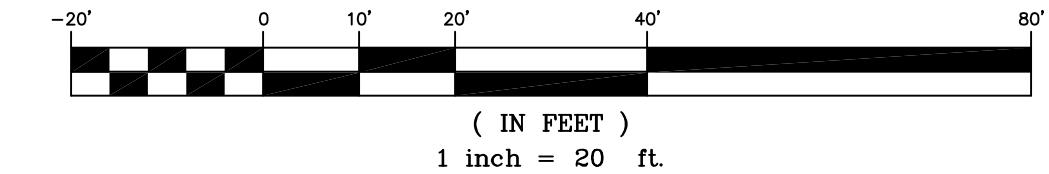
VIEW A

PA ONE CALL NOTE

"PURSUANT TO THE REQUIREMENTS OF ACT 287 OF 1974 AND AS LAST AMENDED BY ACT 181 OF 2008, THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS AND/OR ABOVE-GROUND EXAMINATIONS OF THE SITE. COMPLETENESS, ACCURACY, LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. THE CONTRACTORS, AT LEAST THREE (3) DAYS PRIOR TO PERFORMING ANY EXCAVATIONS, SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS AND DEPTHS OF ALL UNDERGROUND FACILITIES LOCATED WITHIN THE VICINITY OF THE WORK SITE IN ACCORDANCE WITH ACT 181. (PA ONE CALL SYSTEM, INC. 1-800-242-1776)."

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

GENERAL PLAN TEXT NOTE:
VERTICAL TEXT INDICATES PROPOSED FEATURES
SLANTED TEXT INDICATES EXISTING FEATURES



PRELIMINARY



ALLOYS ARCHITECTURE
530 WEST BROAD STREET
BETHLEHEM, PA 18018
610.416.4055

SHEET TITLE

GRADING AND UTILITY PLAN

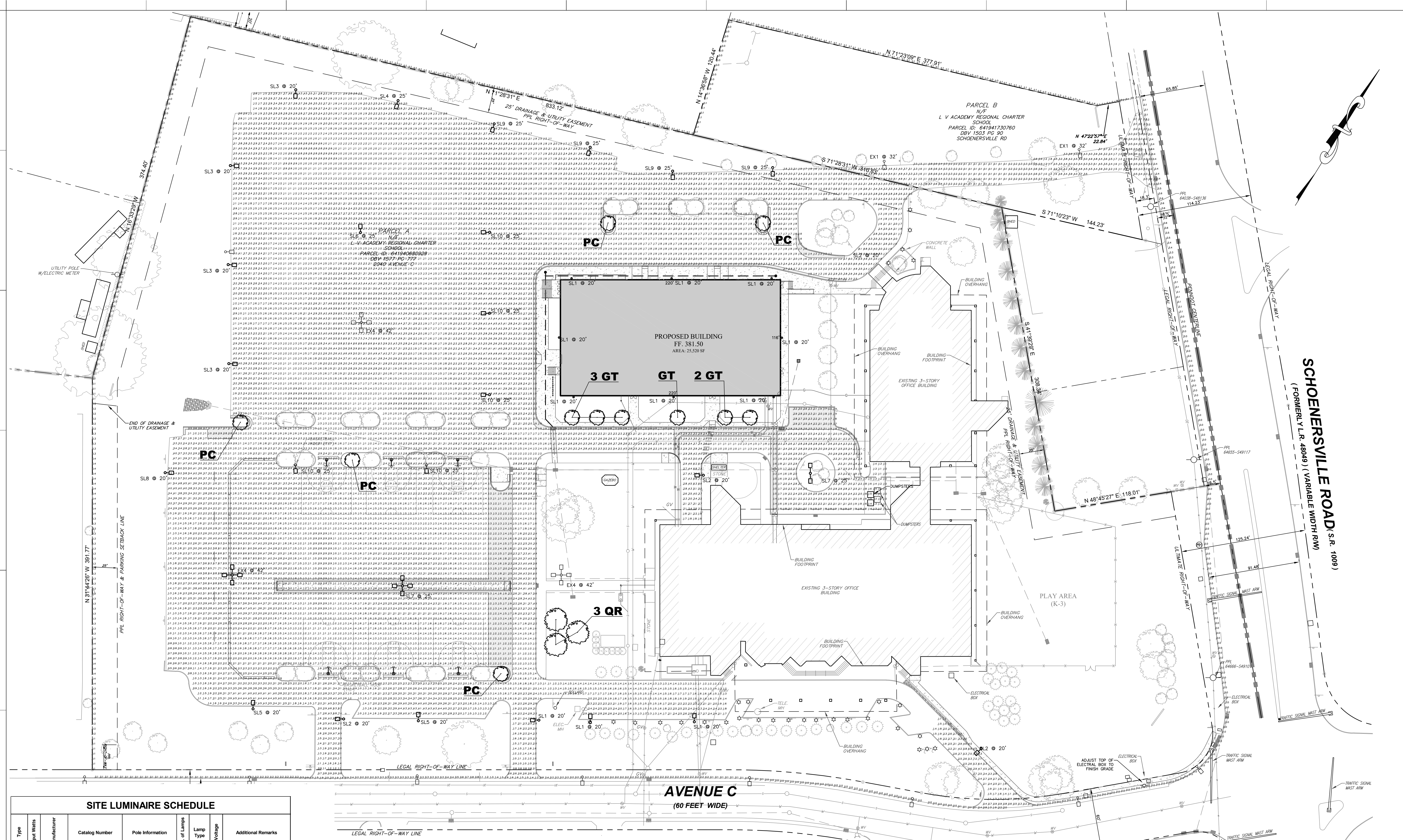
DATE	04/01/2022
SCALE	1" = 20'
DRAWN BY	GS
CHECKED BY	TPD
JOB NO.	21051

C3.01

SHEET 5 of 11

NO.	ISSUE DESCRIPTION	DATE
1	CITY COMMENT	05/23/2022
2		
3		
4		
5		
6		
7		
8		

DATE	04/01/2022
SCALE	1" = 40'
DRAWN BY	GS
CHECKED BY	TPD
JOB NO.	21051
SHEET	6 OF 11

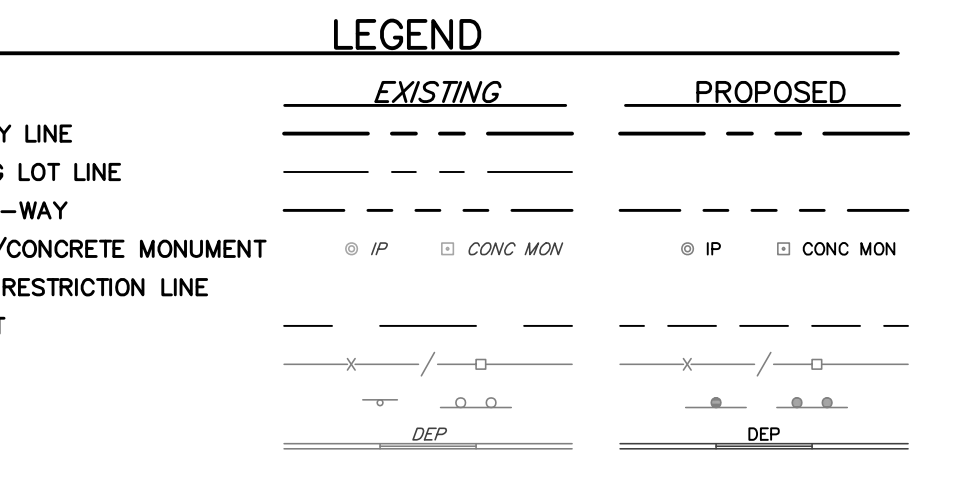


SITE LUMINAIRE SCHEDULE						
Type	Input Watts	Manufacturer	Catalog Number	Pole Information	Lamp Type	Voltage
EX1	225	Hubbell	Existing to Remain (1) ASL-A-24L4K-070-4-U-DB	Existing 30' pole on 24" Concrete base	21,073 Lumens 4K LED	120-277
EX4	900	Hubbell	Existing to Remain (1) ASL-A-24L4K-070-4-U-DB	Existing 40' pole on 24" Concrete base	21,073 Lumens 4K LED	120-277
SL1	110	Hubbell	VPS-48L-110-3K7-4W-UNV-ADD3-D81-7PR-SC	RS4-B-17-4-0-B-CAP-1-S2-D81-VM2	13,180 Lumens 3K LED	120-277
SL2	110	Hubbell	VPS-48L-110-3K7-2-UNV-ADD3-D81-7PR-SC	RS4-B-17-4-0-B-CAP-1-S2-D81-VM2	11,197 Lumens 3K LED	120-277
SL3	235	Hubbell	VPL-80L-235-3K7-4W-UNV-ADD3-D81-7PR-SC-BC	RS4-B-17-4-0-B-CAP-1-S2-D81-VM2	20,234 Lumens 3K LED	120-277
SL4	235	Hubbell	VPL-80L-235-3K7-4W-UNV-ADD3-D81-7PR-SC-BC	RS4-B-17-4-0-B-CAP-1-S2-D81-VM2	20,234 Lumens 3K LED	120-277
SL5	235	Hubbell	VPL-80L-235-3K7-4W-UNV-ADD3-D81-7PR-SC-BC	RS4-B-17-4-0-B-CAP-1-S2-D81-VM2	20,234 Lumens 3K LED	120-277
SL6	235	Hubbell	VPL-80L-235-3K7-4W-UNV-ADD3-D81-7PR-SC-BC	RS4-B-17-4-0-B-CAP-1-S2-D81-VM2	20,234 Lumens 3K LED	120-277
SL7	470	Hubbell	(2) VPL-48L-110-3K7-4W-UNV-ADD3-D81-7PR-SC-BC	RS4-B-17-4-0-B-CAP-1-S2-D81-VM2	20,234 Lumens 3K LED	120-277
SL8	235	Hubbell	VPL-80L-235-3K7-4W-UNV-ADD3-D81-7PR-SC-BC	RS4-B-17-4-0-B-CAP-1-S2-D81-VM2	20,234 Lumens 3K LED	120-277
SL9	235	Hubbell	VPL-80L-235-3K7-4W-UNV-ADD3-D81-7PR-SC-BC	RS4-B-17-4-0-B-CAP-1-S2-D81-VM2	20,234 Lumens 3K LED	120-277
SL10	235	Hubbell	VPL-80L-235-3K7-4W-UNV-ADD3-D81-7PR-SC-BC	RS4-B-17-4-0-B-CAP-1-S2-D81-VM2	20,234 Lumens 3K LED	120-277
SL11	110	Hubbell	VPS-48L-110-3K7-4W-UNV-WB-D81-7PR-SC	Wall Mounted	13,180 Lumens 3K LED	120-277

- LANDSCAPING NOTES**
- ALL PLANTINGS WILL BE OF NURSERY GROWN STOCK, HEALTHY, WELL BRANCHED AND FREE FROM SCARS, INJURIOUS DISEASES AND INSECTS, AND OF A SPECIES GROWN UNDER THE SAME CLIMATIC CONDITIONS AS THE AREA OF THE PROPOSED USE.
 - ALL PLANT MATERIAL WILL MEET THE STANDARDS OF THE AMERICAN STANDARD FOR NURSERY STOCK BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION (2004) OR MOST RECENT EDITION, AND ANY HEIGHTS, SPREADS AND/OR CALIPER SIZES.
 - ALL PLANT MATERIAL WILL BE GUARANTEED FOR 18 MONTHS FROM THE DATE OF FINAL APPROVAL OF THE LANDSCAPE INSTALLATION BY THE TOWNSHIP'S LANDSCAPE ARCHITECT OR TOWNSHIP ENGINEER. ANY DEAD PLANT MATERIAL WILL BE REPLACED AND INSTALLED ACCORDING TO THE APPROVED PLANTING PRACTICES.
 - ALL AREAS SPECIFIED OR PROPOSED TO BE COVERED IN GRASS OR GRASS/GROUND COVER COMBINATIONS, WILL BE PREPARED, PLANTED AND MAINTAINED IN ACCORDANCE WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION'S 408 SPECIFICATIONS, AS AMENDED.
 - PROPOSED PLANTING SHALL NOT BE PLANTED UNTIL THE FINISH GRADING OF THE SITE HAS BEEN COMPLETED.
 - PROPOSED TREES SHALL NOT BE PLANTED ATOP ANY PROPOSED OR EXISTING UTILITY.
 - PROPOSED PLANTING SHALL NOT BE PLANTED WITHIN ANY MUNICIPAL EASEMENT.
 - REFER TO THE SEEDING SCHEDULE ON SHEET 061 FOR SEEDING SPECIFICATIONS.
 - TOPSOIL SHOULD NOT BE REMOVED FROM THE DEVELOPMENT OR USED AS FILL.

- LIGHTING FIXTURE SCHEDULE NOTES**
- ALL FIXTURES MUST BE SUPPLIED WITH N.E.C. REQUIRED BALLAST DISCONNECT PLUGS.
 - ARCHITECT TO SELECT FINISH FROM MANUFACTURER FULL LIST OF STANDARD FINISHES.
 - PROVIDE ROUND, NON-TAPERED AL POLY. FINISH SHALL MATCH FIXTURE HEAD TO ARCHITECT'S APPROVAL. POLE SHALL MEET FIXTURE HEAD RATING & TO WITH WITH ANCHOR COORDINATE TENSION WITH FIXTURE HEAD, PROVIDE WITH BASE COLLAR. INSTALL ON CONCRETE BASE AS INDICATED IN DETAIL.
 - PROVIDE 4" ROUND, NON-TAPERED AL POLY. FINISH SHALL MATCH FIXTURE HEAD TO ARCHITECT'S APPROVAL. POLE SHALL MEET FIXTURE HEAD RATING & TO WITH WITH ANCHOR COORDINATE TENSION WITH FIXTURE HEAD, PROVIDE WITH BASE COLLAR. INSTALL ON CONCRETE BASE AS INDICATED IN DETAIL.

- STANDARDS OF LIGHTING DESIGN**
- ALL EXTERIOR FIXTURES SHALL BE CONTROLLED VIA ASTRONOMIC TIMELOCK OR TIMELOCK AND PHOTOCELL.
 - FINAL LIGHTING DESIGN SHALL MEET IESNA RECOMMENDATIONS FOR LIGHT LEVELS AND UNIFORMITY.
 - ALL EXTERIOR LIGHTING SHALL BE DESIGNED TO MINIMIZE LIGHT TRASPASS AND GLARE.
 - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AND COORDINATE WITH THE SITE CONTRACTOR. THE LOCATION OF NEW UTILITIES SHALL BE MAINTAINED BETWEEN THE ELECTRICAL, WATER, GAS, AND OTHER UTILITIES, INCLUDING, BUT NOT LIMITED TO, STORM SEWER, SANITARY, WATER, GAS, ETC.



PLANT MATERIAL LIST

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE & CONDITION	SPACING	REMARKS
TREES-DECIDUOUS SHADE						
GT	0	QUERCUS TRIACANTHOS INERMIS IMPERIAL	IMPERIAL THORNLESS COMMON LOCUST		25' O.C.	FULL, BRANCHED CANOPY, SINGLE LEADER
PC	5	PIRUS CALLERYANA 'BRADFORD'	BRADFORD GALLERY PEAR	2 1/2" CAL., B&B	AS SHOWN	FULL, BRANCHED CANOPY, SINGLE LEADER
QR	3	QUERCUS RUBRA	RED OAK		25' O.C.	

LANDSCAPING SUMMARY

ORINAIRCE SECTION	TITLE	REQUIREMENT(S)	REQUIRED	PROVIDED	NOTES
1318.2B	TREE CONSERVATION	REPLACE TREES REMOVED OVER 8" DBH	14 TREES REMOVED	14 TREES REPLACED	MEETS REQUIREMENT
1319.02(J)(1)	STREET TREES	1 PER 30 LF OF FRONTAGE (MEDIUM); 1 PER 50 LF OF FRONTAGE (LARGE); 1.5 PER 100 LF OF FRONTAGE	29 LARGE OR 48 MEDIUM TREES REQUIRED	16 STREET TREES EXISTING	
1319.02(J)(2)	PARKING LOT TREES	1 TREE/15 PARKING SPACES; 359 PARKING SPACES	30 TREES REQUIRED	40 TREES PROVIDED	10 TREES IN EXCESS OF REQUIRED
	TOTAL STREET & PARKING LOT TREES REQUIRED		59 MEDIUM TREES OR 88 LARGE STREET TREES		
	TOTAL TREES PROVIDED			92 TREES	

PA ONE CALL NOTE

CALL BEFORE YOU DIG! PENNSYLVANIA LAW REQUIRES 3 WORKING DAYS PRIOR TO CONSTRUCTION PHASE AND 10 WORKING DAYS PRIOR TO PERFORMING ANY EXCAVATIONS. YOU ARE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UNDERGROUND FACILITIES LOCATED WITHIN THE VICINITY OF THE WORK SITE IN ACCORDANCE WITH ACT 181. (PA ONE CALL SYSTEM, INC. 1-800-242-1776)

GENERAL PLAN TEXT NOTE: VERTICAL TEXT INDICATES PROPOSED FEATURES. HORIZONTAL TEXT INDICATES EXISTING FEATURES.

GRAPHIC SCALE
(IN FEET)
1 inch = 40 ft.

LEHIGH VALLEY ACADEMY
REGIONAL CHARTER
SCHOOL

1500 VALLEY CENTER PARKWAY
BETHLEHEM, PA 18017

PROJECT TEAM

ARCHITECT
ALLOYS ARCHITECTURE

MEP
DMG DESIGNMANAGEMENTGROUP
2007 RT, SUITE 202
PITSTON, PA 18040

STRUCTURAL

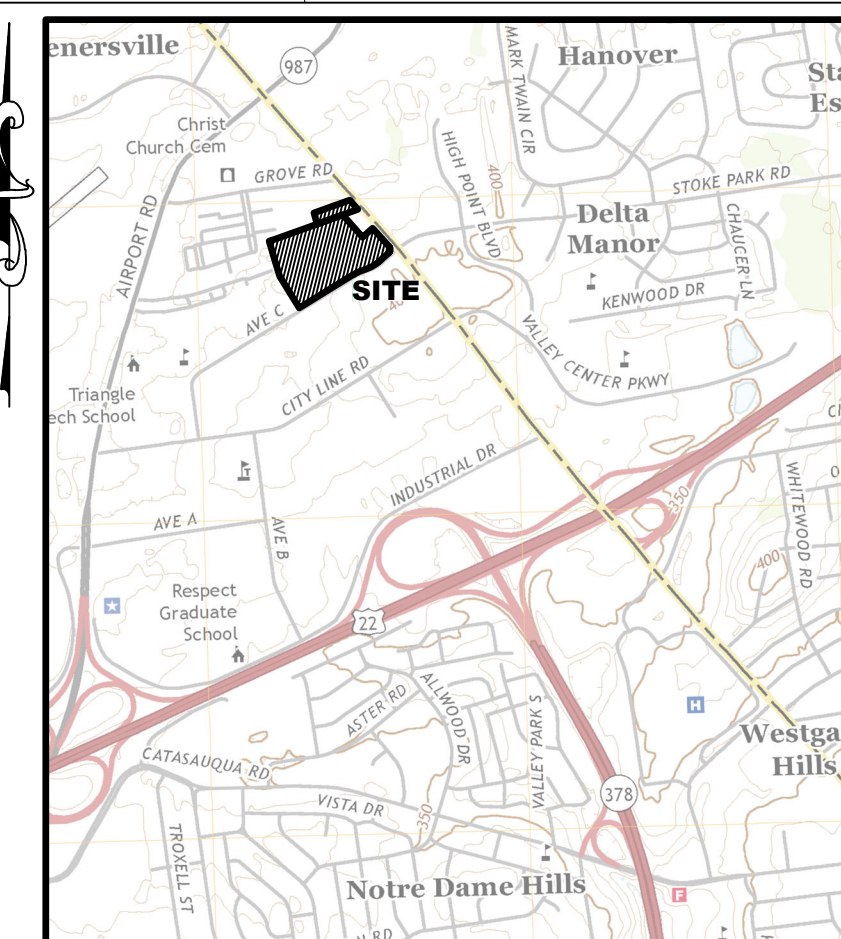
HARRY GETT & ASSOCIATES, INC.
85 S. ROUTE 100
ALLENTOWN, PA 18106

FOOD SERVICE

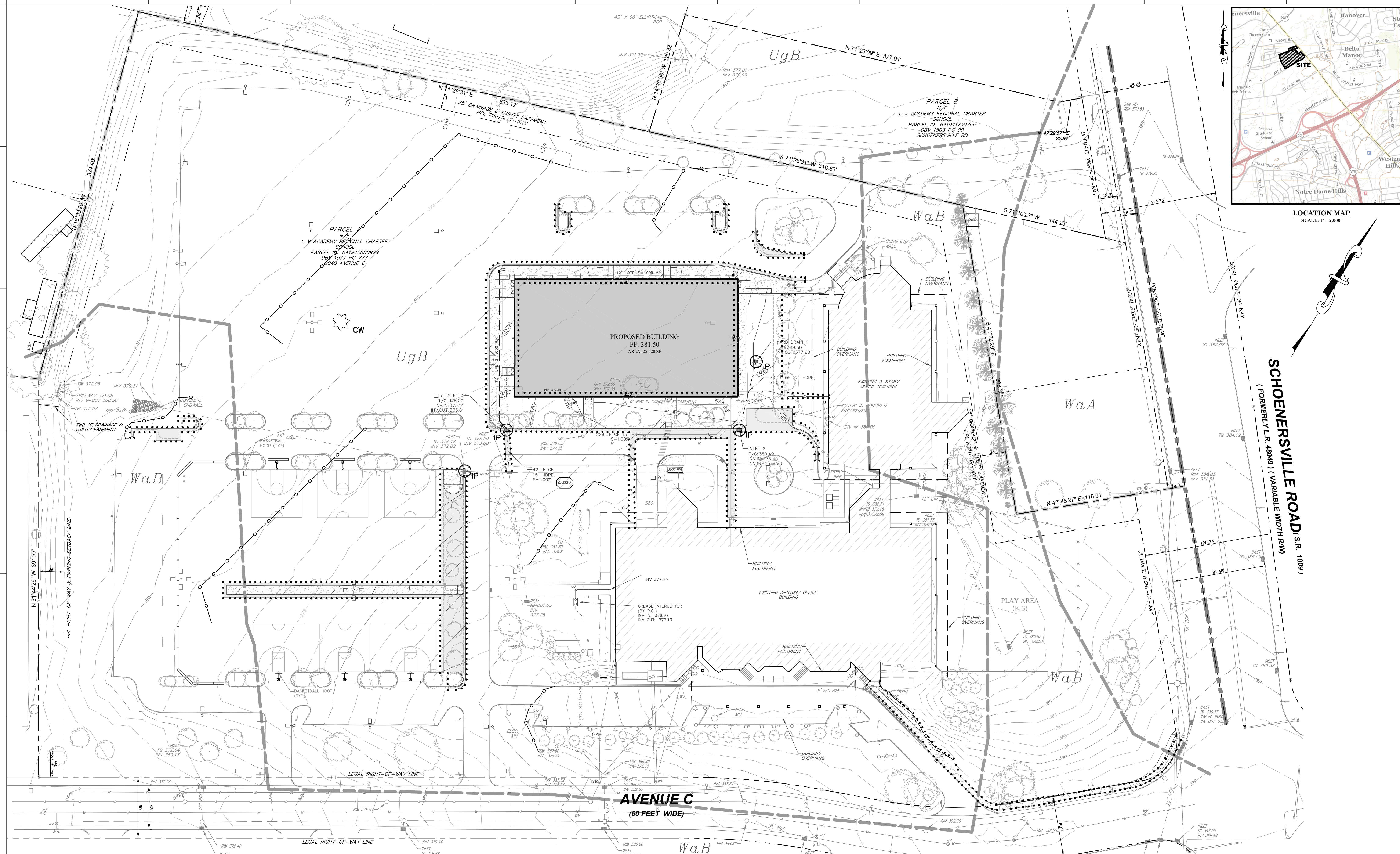
CIVIL
TERRAFORM ENGINEERING, LLC
ONE EAST BROAD ST., SUITE 330
BETHLEHEM, PA 18018

ACUSTICS

RESIDENT ENGINEER
DMG ENGINEERING, INC.
ONE EAST BROAD ST., SUITE 310
BETHLEHEM, PA 18018



LOCATION MAP
SCALE: 1" = 2,000'



SCHOENERSVILLE ROAD, S.R. (1009)
(FORMERLY L.R. 48049) (VARIABLE WIDTH RW)

CONSTRUCTION SCHEDULE

- APPROXIMATE STARTING DATE FOR CONSTRUCTION: MAY 2022
- APPROXIMATE ENDING DATE FOR CONSTRUCTION: AUGUST 2022

GENERAL NOTES:

- THE CUT-OFF DATE FOR SEEDING, INCLUDING HYDRO-SEEDING (EXCEPT RYE GRASS), IS NOVEMBER 15TH. ANY AREAS DISTURBED AFTER THIS DATE, PRIOR TO THE START OF THE GROWING SEASON IN THE SPRING, MUST BE STABILIZED WITH MULCH.
- ALL STRUCTURES ASSOCIATED WITH THE CONSTRUCTION OF SEDIMENT REMOVAL FACILITIES MUST BE AVAILABLE ON-SITE PRIOR TO ANY EARTHWORKING.
- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETE BEFORE ANY FOLLOWING STAGES ARE INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED TO ONLY THOSE AREAS DESCRIBED IN EACH STAGE.

STAGE 1 - EAS BMP INSTALLATION

- INSTALL COMPOST SOCK AS INDICATED ON THE EAS PLAN. INSTALL INLET PROTECTION ON THE TWO EXISTING INLETS LOCATED IN THE FRONT OF THE SCHOOL AND ALONG THE PAVEMENT EAST OF THE SCHOOL. INSTALL CONCRETE WASH NEXT TO ROCK CONSTRUCTION ENTRANCE.

STAGE 2 - SITE DEMOLITION

- DEMOLISH THE CURB, PAVEMENT AND WALKWAY AREAS AS NECESSARY FOR THE PROPOSED IMPROVEMENTS.

STAGE 3 - SITE DEVELOPMENT

- BEGUN CONSTRUCTION OF THE PROPOSED BUILDING.
- INSTALL STORM SYSTEM TO INLET 02, INLET 03 AND TO YD 01. IMMEDIATELY INSTALL INLET PROTECTION.
- ESTABLISH THE NEW ELECTRIC SERVICE, GAS SERVICE, WATER SERVICE AND COMMUNICATIONS SERVICE TO THE SCHOOL. MAKE SURE TO FOLLOW THE EAS UTILITY INSTALLATION NOTES ON SHEET C3.00.
- INSTALL THE PROPOSED CURBING IN THE PARKING LOT.
- CONSTRUCT THE REMAINING PROPOSED CONCRETE WALKWAY/PATIO AREAS. PERFORM ANY FINAL GRADING NECESSARY AND IMMEDIATELY STABILIZE THE AREA WITH SEEDING AND STRAW MULCHING.

STAGE 4 - REMOVAL OF THE SOIL EROSION CONTROLS

- AFTER THE ENTIRE SITE IS STABILIZED, THE CONTRACTOR IS REQUIRED TO REMOVE ALL REMAINING ROCK CONSTRUCTION ENTRANCES, INLET PROTECTION, AND COMPOST SOCKS. RE-STABILIZE ANY AREAS DISTURBED BY THE REMOVAL OF THE EROSION CONTROLS.

NOTE:

AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM TO PERCENT PERSONAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.

E&S UTILITY INSTALLATION NOTES

PIPES WITH JOINTS THAT ALLOW A MANUFACTURED LENGTH OF PIPE TO BE PLACED IN THE TRENCH WITH THE PIPE JOINT ASSEMBLED/MADE IN THE TRENCH REQUIRE AN OPEN PIPELINE TRENCH THAT IS ONLY SLIGHTLY LONGER THAN THE LENGTH OF PIPE BEING INSTALLED.

THE TOTAL LENGTH OF EXCAVATED TRENCH OPEN AT ANY ONE TIME SHOULD NOT BE GREATER THAN THE TOTAL LENGTH OF PIPELINE/ UTILITY LINE THAT CAN BE PLACED IN THE TRENCH AND BACK-FILLED IN ONE WORKING DAY.

NO MORE THAN 50 LINEAL FEET OF OPEN TRENCH SHOULD EXIST WHEN PIPELINE/UTILITY LINE INSTALLATION CEASES AT THE END OF THE WORKDAY.

ANY WATER THAT ENTERS THE TRENCH SHALL BE REMOVED THROUGH A FILTER BAG.

IMMEDIATELY AFTER PIPE INSTALLATION IS COMPLETE, SURFACE SHALL BE STABILIZED WITH SEEDING OR OTHER STABILIZING MATERIAL.

LIMIT OF DISTURBANCE = 0.95 ACRES

PLAN PREPARER:
JUSTIN MASSIE
TERRAFORM ENGINEERING, LLC
ONE EAST BROAD STREET
SUITE 330
BETHLEHEM, PA 18018

LEGEND

	EXISTING	PROPOSED
BOUNDARY LINE	---	---
ADJOINING LOT LINE	---	---
RIGHT-OF-WAY	---	---
IRON PIN/CONCRETE MONUMENT	IP	IP
BUILDING RESTRICTION LINE	---	---
EASEMENT	---	---
FENCE	---	---
SGNS	---	---
CURBING	---	---
PAVEMENT	---	---
CONCRETE	---	---
BUILDING	---	---
STORM PIPE/INLET/MANHOLE	---	---
SANITARY PIPE/MANHOLE / CLEAN OUT	---	---
WATER LINE/HYDRANT/VALVE	---	---
GAS LINE & VALVE	---	---
OVERHEAD ELECTRIC	---	---
UNDERGROUND ELECTRIC	---	---
UTILITY POLE	---	---
LIGHT POLE	---	---
TREES/SHRUBS	---	---
TREE LINE	---	---

SOIL EROSION LEGEND

NPDES PERMIT BOUNDARY	---
LIMIT OF DISTURBANCE	---
CONCRETE WASHOUT	---
12" COMPOST SOCK	---
TREE PROTECTION FENCE	---
INLET PROTECTION	---

PA ONE CALL NOTE

"PURSUANT TO THE REQUIREMENTS OF ACT 287 OF 1974 AND AS LATEST AMENDED BY ACT 181 OF 2008, THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS AND/OR ABOVE-GROUND EXAMINATIONS OF THE SITE. COMPLETENESS, ACCURACY, LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS AND DEPTHS OF ALL UNDERGROUND FACILITIES LOCATED WITHIN THE VICINITY OF THE WORK SITE IN ACCORDANCE WITH ACT 181. (PA ONE CALL SYSTEM, INC. 1-800-242-1776)."

SOIL CLASSIFICATIONS

UgB	URBAN LAND 0% - 8% SLOPES
WaA	WASHINGTON SILT LOAM 0% - 3% SLOPES HYDROLOGIC SOIL GROUP B
WaB	WASHINGTON SILT LOAM 3% - 8% SLOPES HYDROLOGIC SOIL GROUP B

CALL BEFORE YOU DIG!

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

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

GENERAL PLAN TEXT NOTES:
VERTICAL TEXT INDICATES PROPOSED FEATURES
SHOWN ON THESE PLANS

GRAPHIC SCALE
(IN FEET)
1 inch = 40 ft.

SUBMISSIONS

NO.	ISSUE DESCRIPTION	DATE
1	CITY COMMENT	05/23/2022
2		
3		
4		
5		
6		
7		
8		

ALLOY5 ARCHITECTURE

ALLOYS ARCHITECTURE
530 WEST BROAD STREET
BETHLEHEM, PA 18018
610.416.0055

EROSION & SEDIMENT CONTROL PLAN

DATE	04/01/2022
SCALE	1" = 40'
DRAWN BY	GS
CHECKED BY	TPD
JOB NO.	21051
SHEET 7 OF 11	

PRELIMINARY

REGIONAL CHARTER SCHOOL

1501 VALLEY CENTER PARKWAY
BETHLEHEM, PA 18017

PROJECT TEAM

ARCHITECT
ALLOYS ARCHITECTURE

MEP
DMG DESIGNMANAGEMENTGROUP
2007 RT. 215, SUITE 202
PITTSBURGH, PA 15240

CIVIL
TERPROM ENGINEERING, LLC
ONE EAST BRAD ST., SUITE 300
BETHLEHEM, PA 18018

STRUCTURAL
BARRY GOTT & ASSOCIATES, INC.
815 ROUTE 100
ALEXANDRIA, PA 18106

AGRICULTURAL
ONYX ENGINEERING, INC.
ONE EAST BRAD ST., SUITE 310
BETHLEHEM, PA 18018

AGRICULTURAL
ONYX ENGINEERING, INC.
ONE EAST BRAD ST., SUITE 310
BETHLEHEM, PA 18018

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AGRICULTURAL
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PRELIMINARY

EROSION & SEDIMENT CONTROL NOTES:

ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED EAS PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED) SHALL BE MAINTAINED AT THE PROJECT SITE. THE REVISIONS TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION SHALL BE APPROVED BY THE REVIEWING AGENCY. ANY CHANGES TO THOSE CHANGES FOR WHICH THE REVIEWING AGENCY HAS NOT REVIEWED SHALL BE CONSIDERED AS CHANGES FOR WHICH NO REVIEW HAS BEEN OBTAINED. ANY CHANGES TO THOSE CHANGES FOR WHICH NO REVIEW HAS BEEN OBTAINED SHALL BE CONSIDERED AS CHANGES FOR WHICH NO REVIEW HAS BEEN OBTAINED.

AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL NOTIFY ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE EAS PLAN PREPARER, THE PCOM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCOM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE RECONSTRUCTION MEETING.

AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMANNED BY THE PERMITTING AGENCY, THE OWNER SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN. DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT FOR IMPLEMENTATION.

AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, BRUSH, AND OTHER OBSTRUCTIBLE MATERIAL.

CLEARING, GRUBBING AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEANSING, GRUBBING AND STRIPPING MAY NOT COME IN ANY STAGE OR PHASE OF THE PROJECT UNLESS THE EAS BMPS SPECIFIED BY THE BMP SELECTION FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THE EAS PLAN.

AT 50% THE SMALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.

TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 30 FEET. STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER.

IMMEDIATELY UPON DISCOVERING UNEXPECTED OBSTRUCTIONS POISING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENTATION, THE OPERATOR SHALL STOP WORK IMMEDIATELY, NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.

ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS. AT 25 PA. CODE 2601 ET SEQ. 2601.1 AND 2601.11. NO SOLID BUILDING MATERIALS OR WASTES OR UNDESIRABLE BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THIS SITE.

OFF-SITE WASTE AND BURNING AREAS MUST HAVE AN EAS PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.

THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. LOCAL FILL MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.

ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THE PLAN. CLEAN, UNDISTURBED VEGETATED AREAS. ALL PUMPING OF EXCESSIVE LAKEIN WATER SHALL BE TO UNDISTURBED AREAS.

VEHICLES AND EQUIPMENT MAY ONLY ENTER AND EXIT THE CONSTRUCTION SITE VIA A STABILIZED OVER CONSTRUCTION ENTRANCES.

UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTING ALL EXPOSED AREAS DURING NON-RAINING MONITORING. EACH BUMP SHALL BE MAINTAINED PROPERLY. THE OPERATOR SHALL MAINTAIN AND MAKE AVAILABLE TO THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.

ALL EROSION AND SEDIMENTATION SHALL BE MONITORED AND REPORTED IMMEDIATELY UPON REACHING PROHIBITED LEVELS OR OTHER RELATED PROBLEMS. ALL MONITORING SHALL BE PERFORMED IMMEDIATELY. IF THE EAS BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.

ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN. EXCESSIVE SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN UNDESIRABLE AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS OR DRAINAGE CHANNLES AND IMMEDIATELY STABILIZED, OR PLACED IN TOPSOIL STOCKPILES.

AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL. IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTCROPPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.

ALL FILLS SHALL BE COMPACTED AS REQUIRED TO SUPPORT EROSION, SURFACE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUIITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.

ALL FROZEN MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOIL, OR OTHER FOREIGN OR OBSTRUCTIBLE MATERIAL. ALL MATERIALS SHALL BE MAINTAINED PROPERLY THROUGHOUT THE CONSTRUCTION PERIOD. FROZEN MATERIALS OR SOFT MUDS, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.

FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.

SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.

ALL EXPOSED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING PROHIBITED LEVELS OR OTHER RELATED PROBLEMS. ALL EXPOSED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING PROHIBITED LEVELS OR OTHER RELATED PROBLEMS. ALL EXPOSED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING PROHIBITED LEVELS OR OTHER RELATED PROBLEMS.

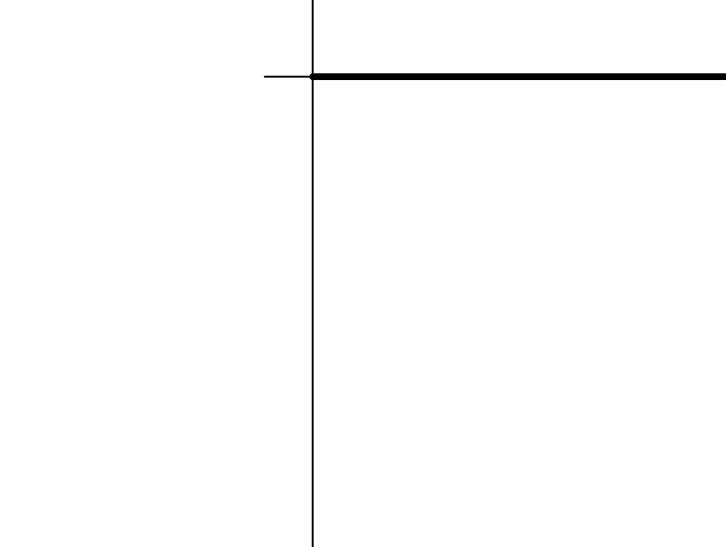
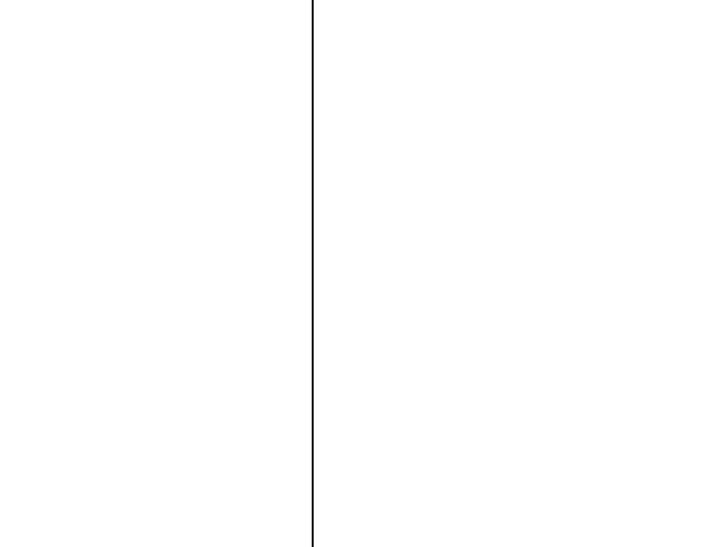
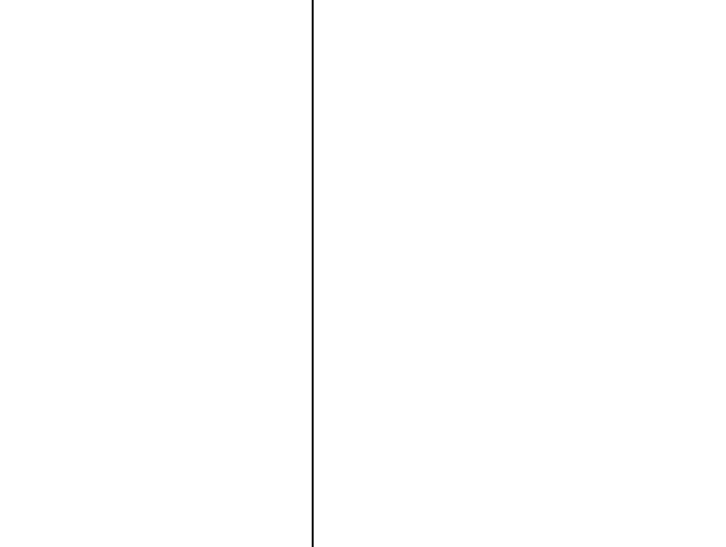
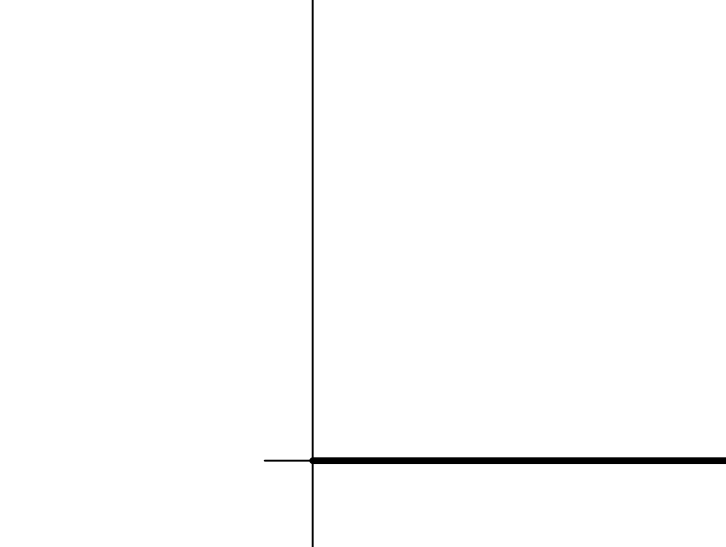
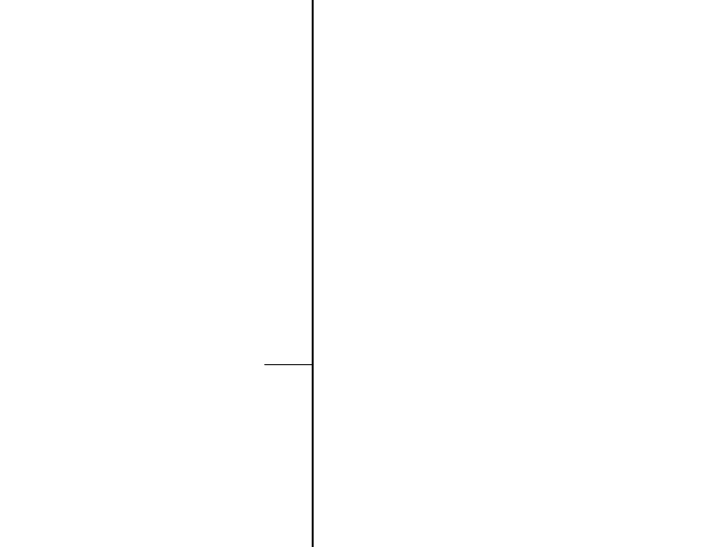
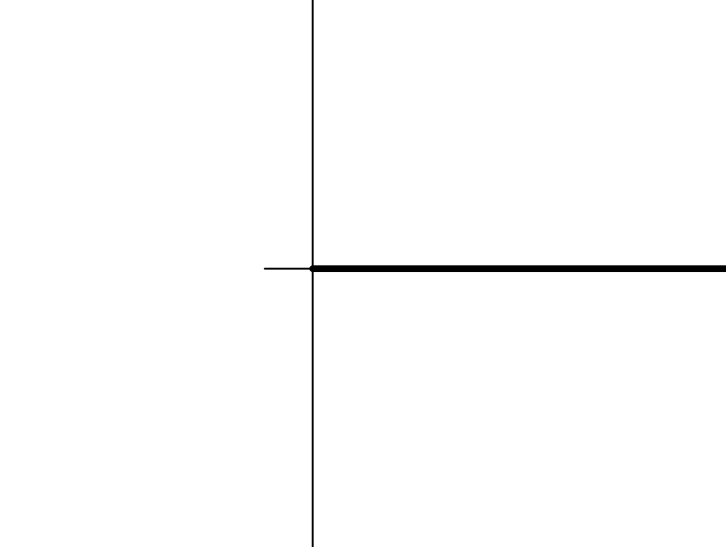
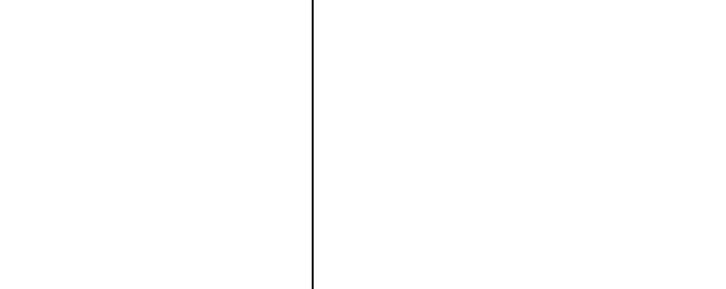
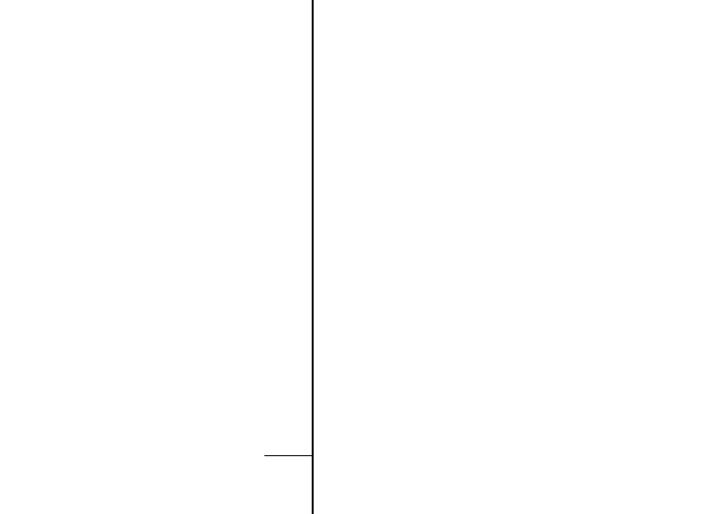
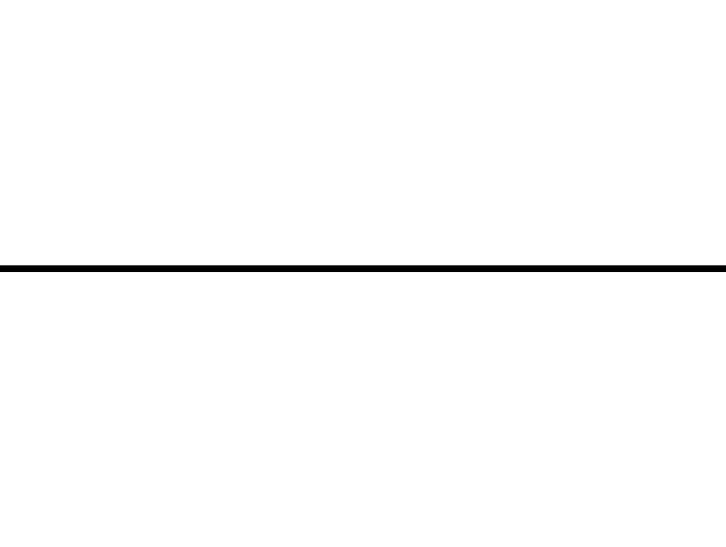
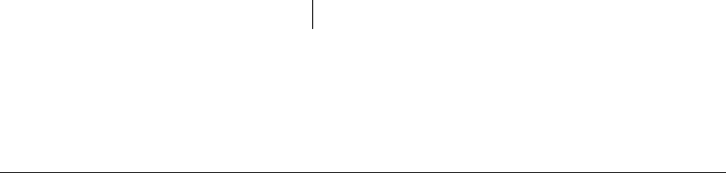
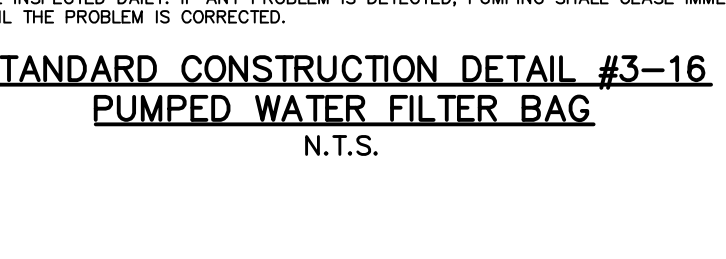
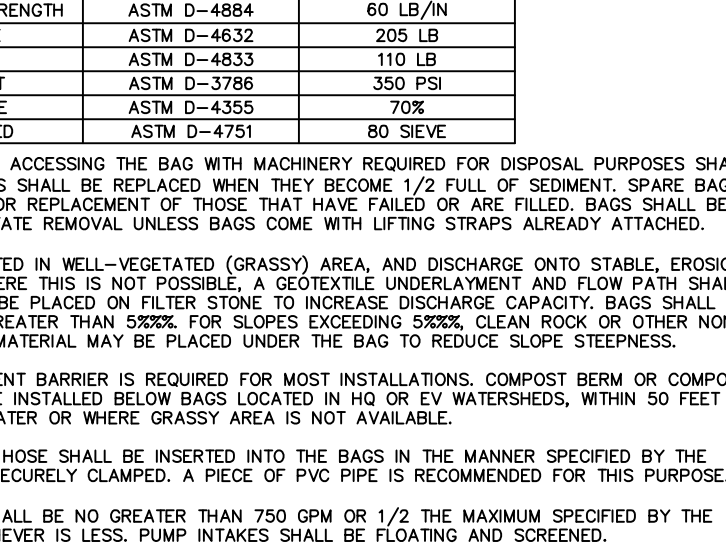
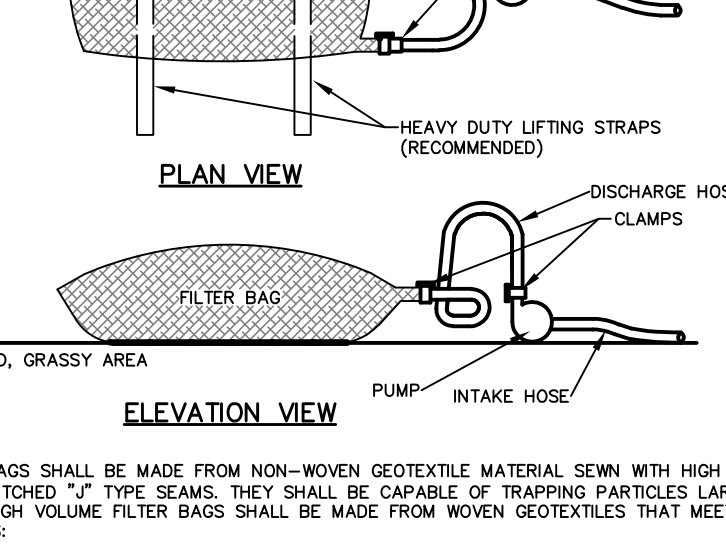
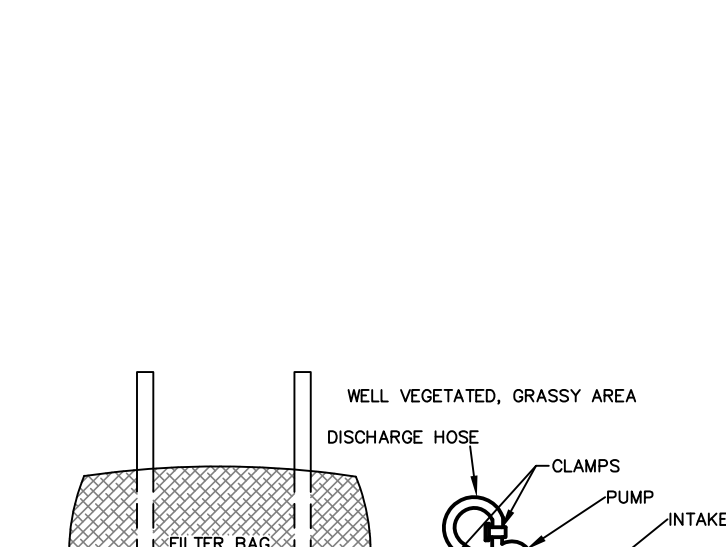
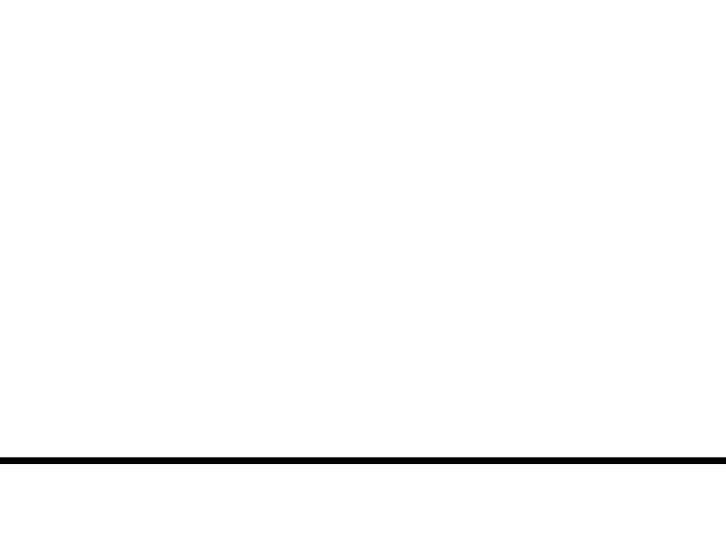
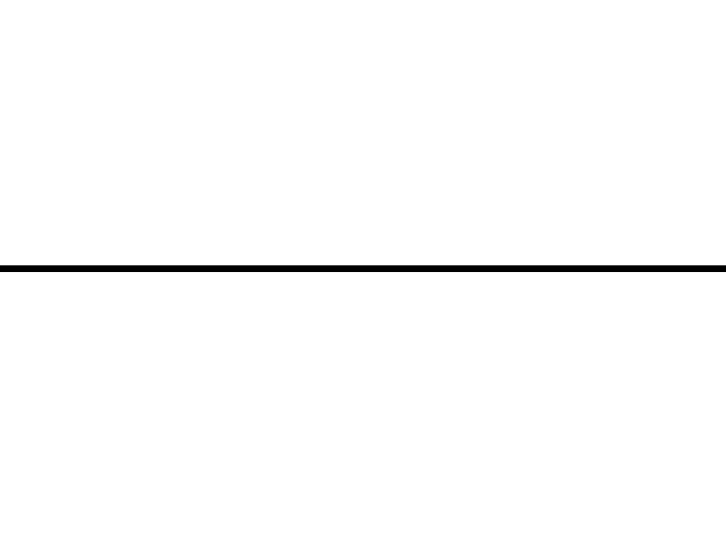
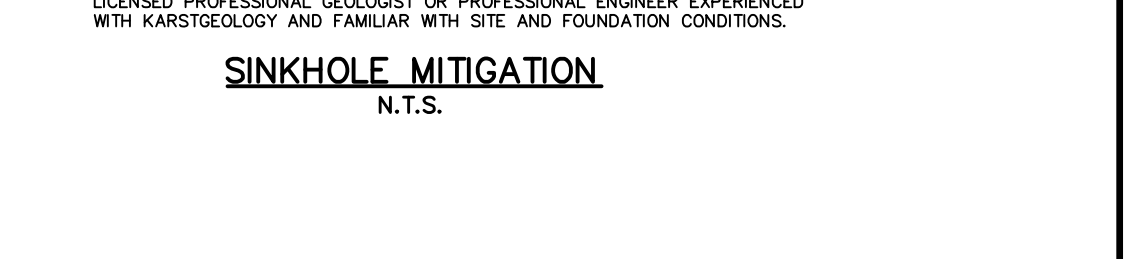
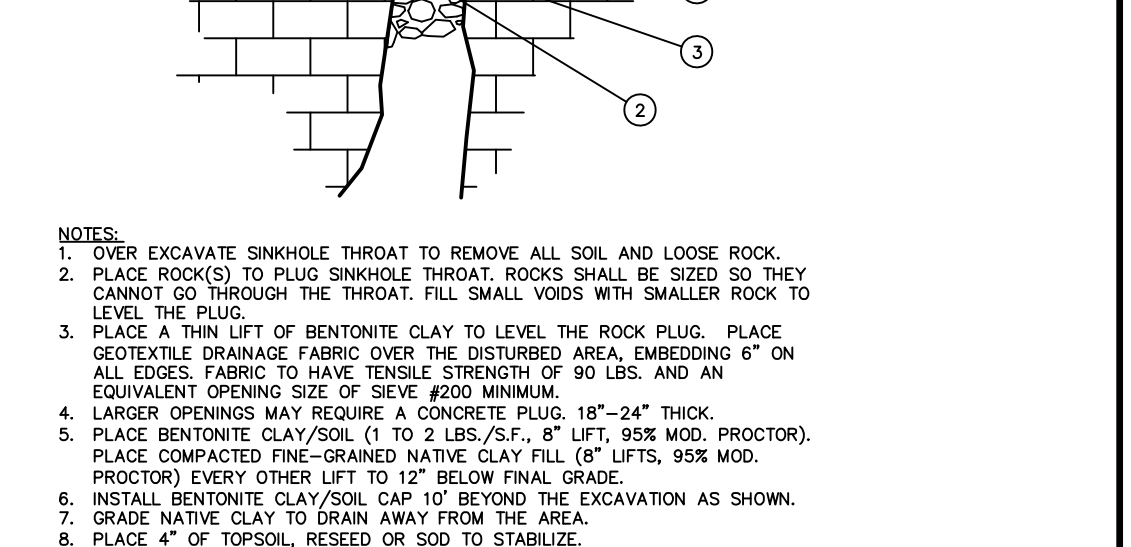
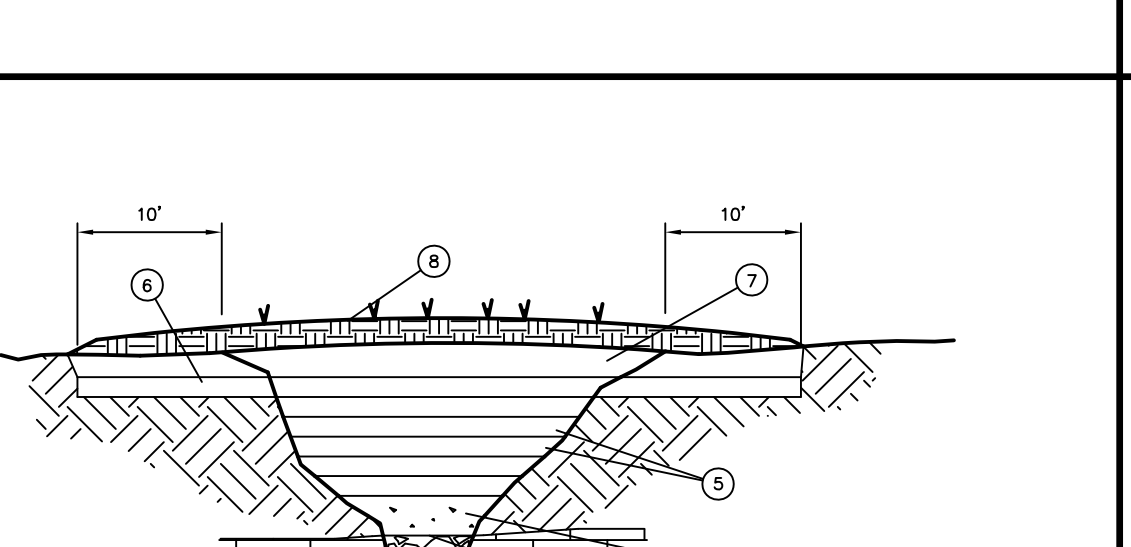
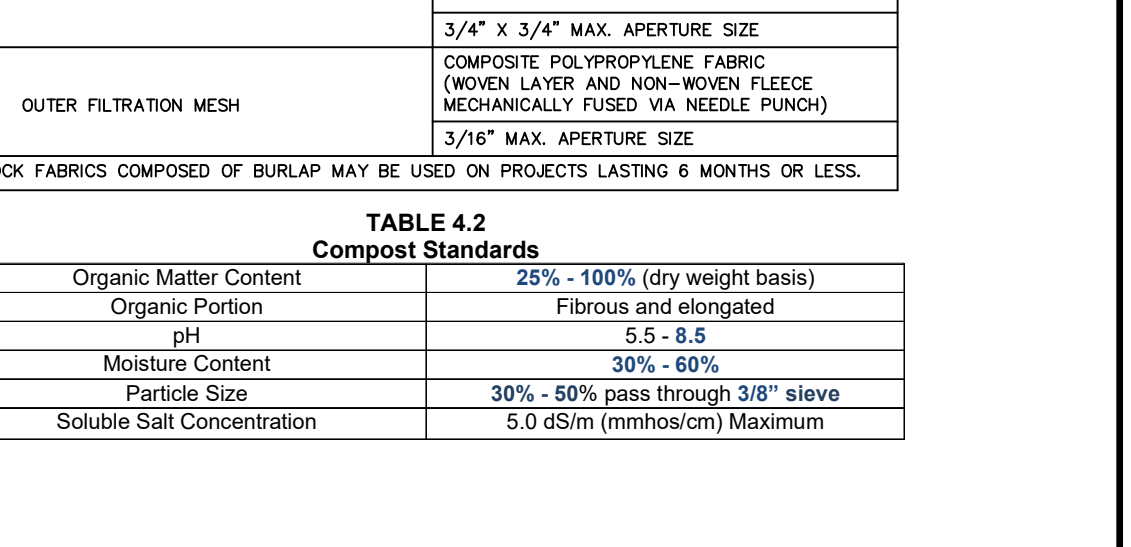
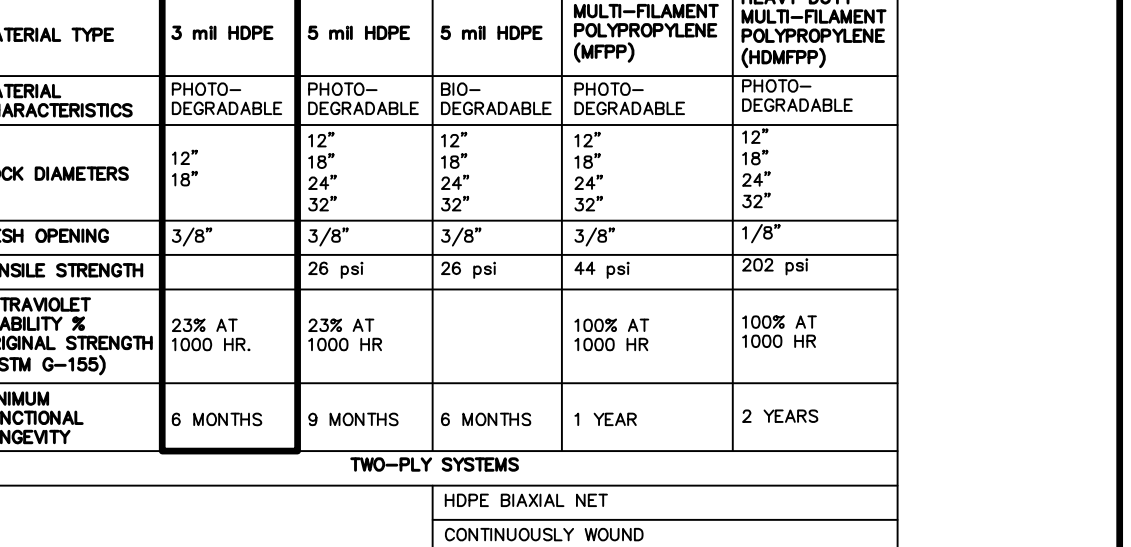
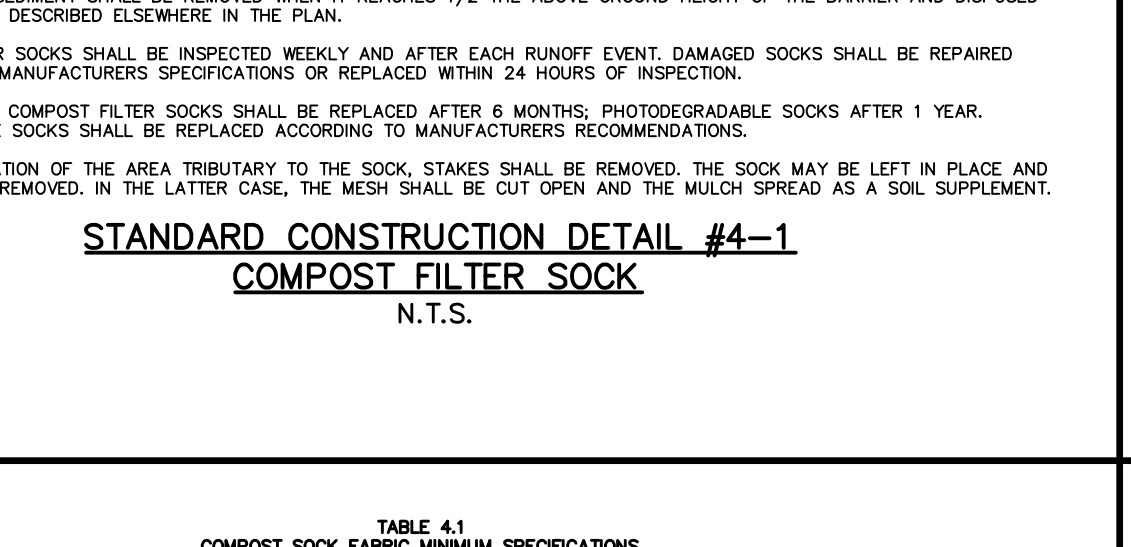
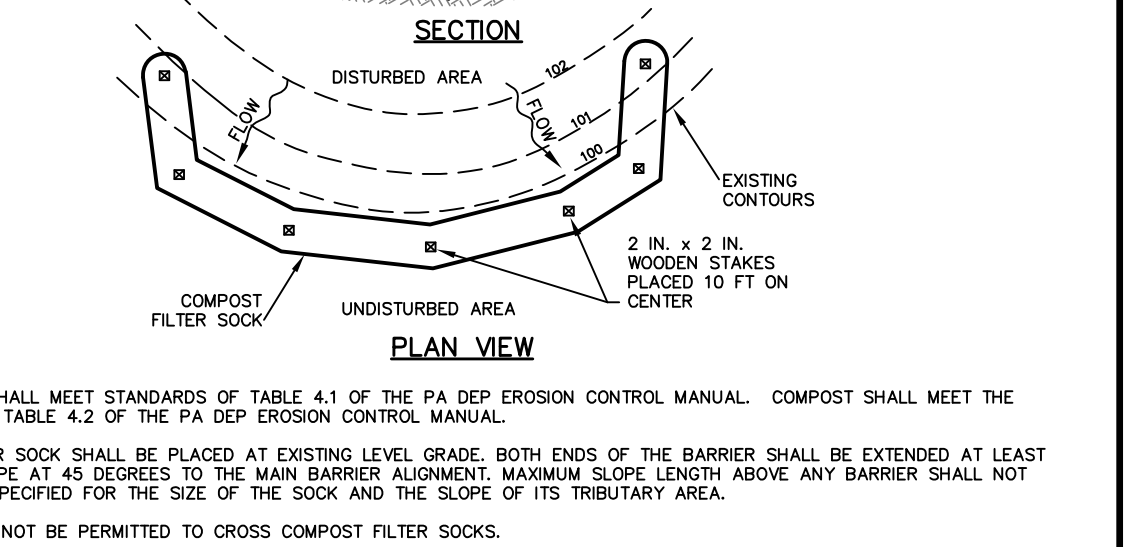
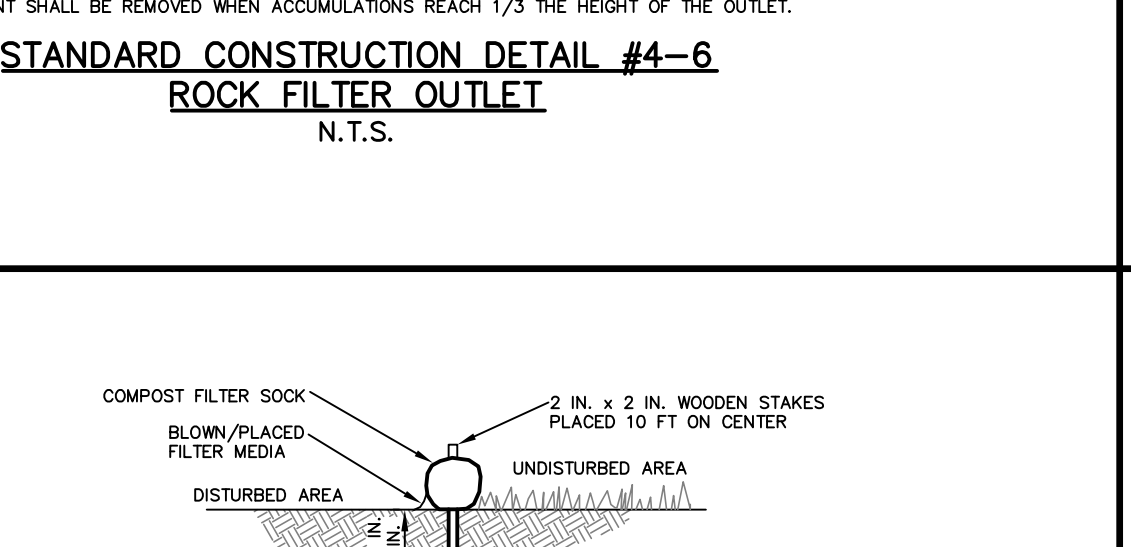
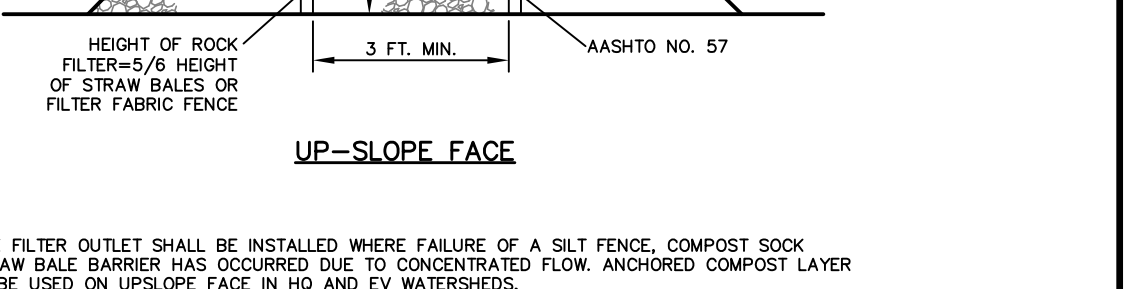
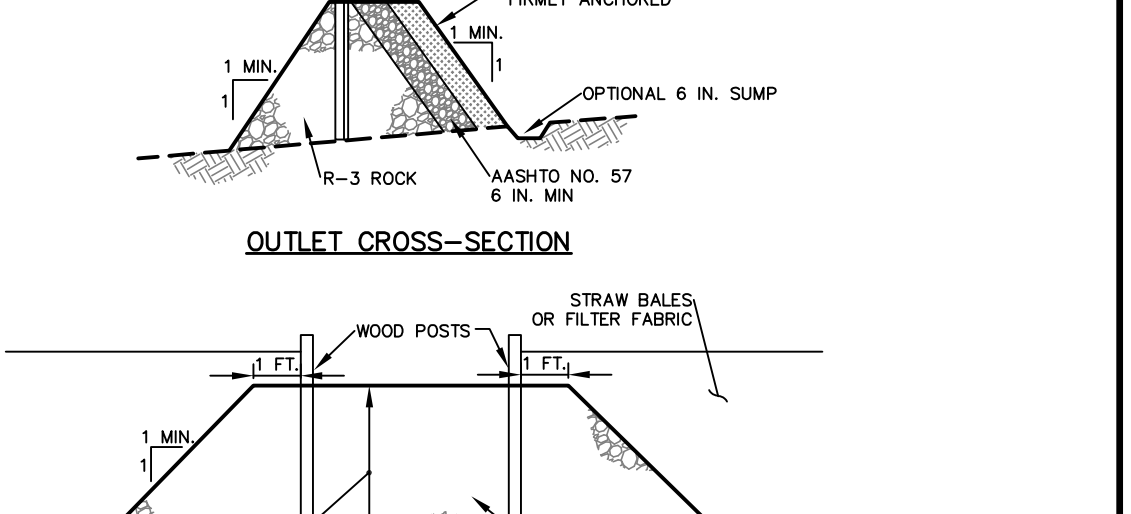
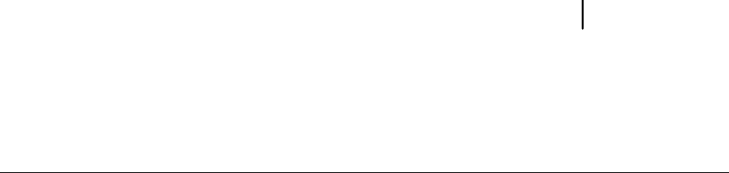
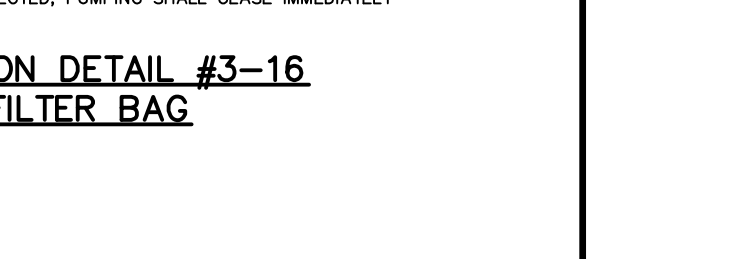
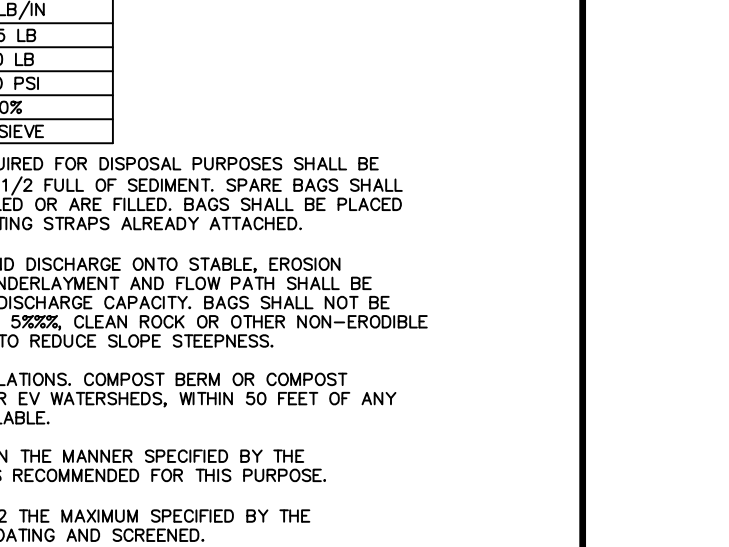
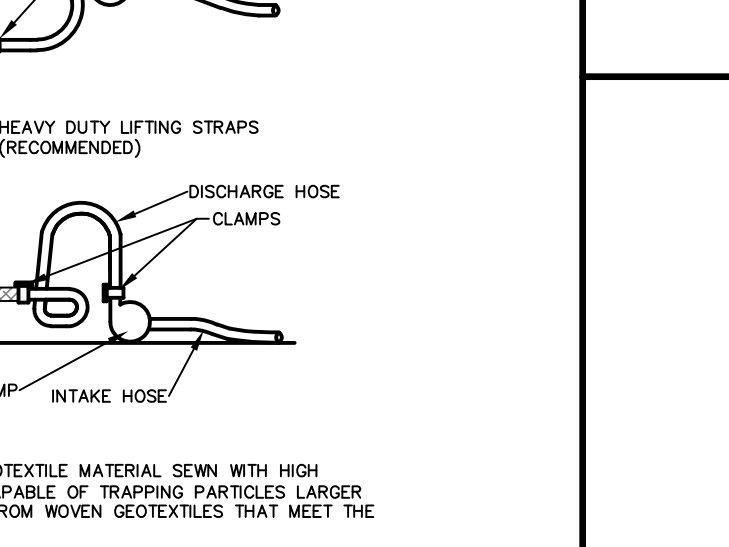
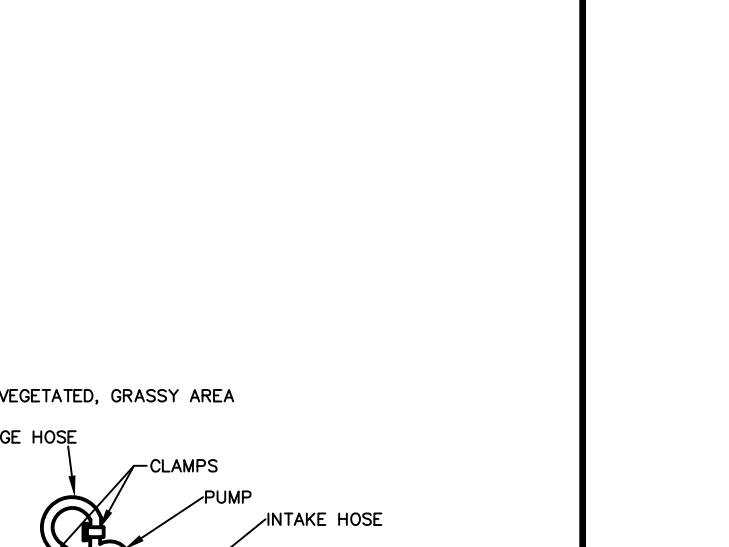
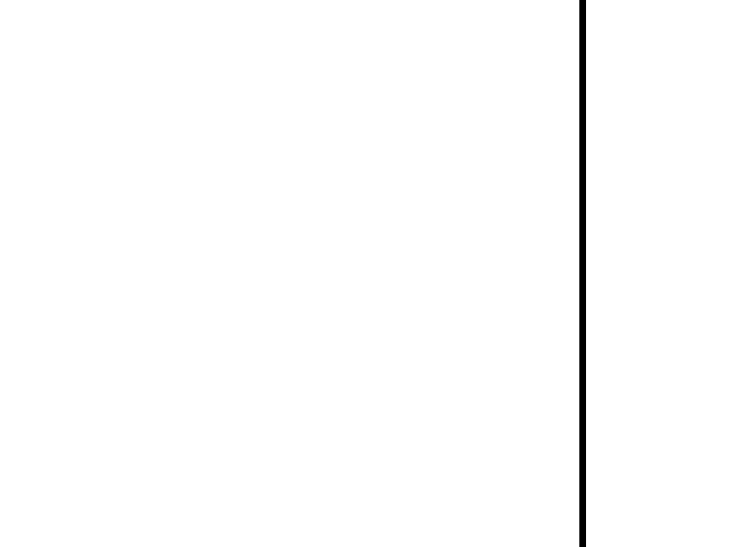
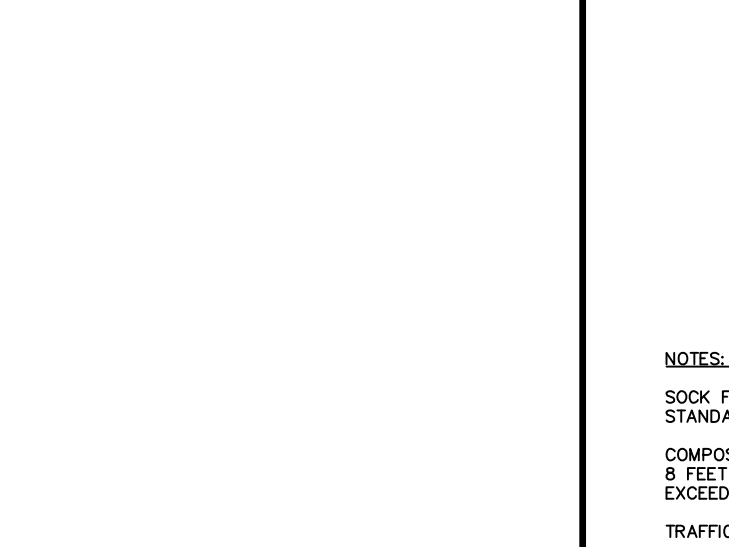
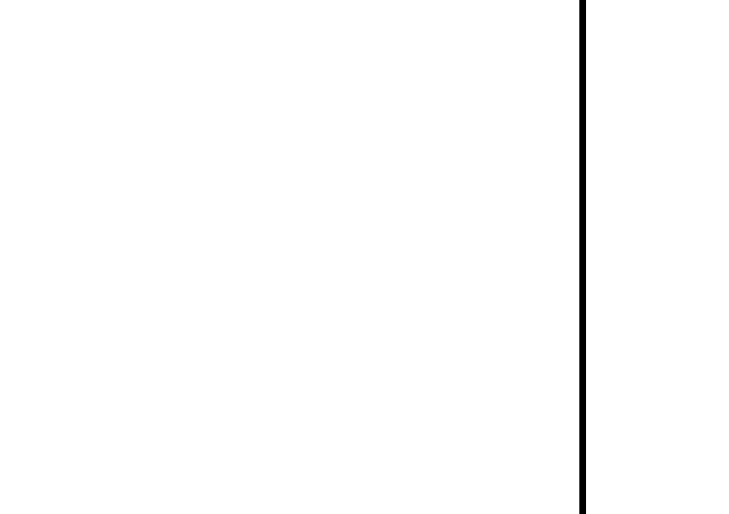
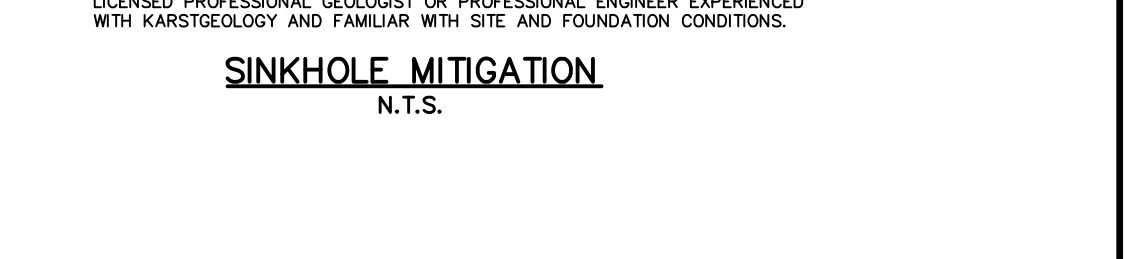
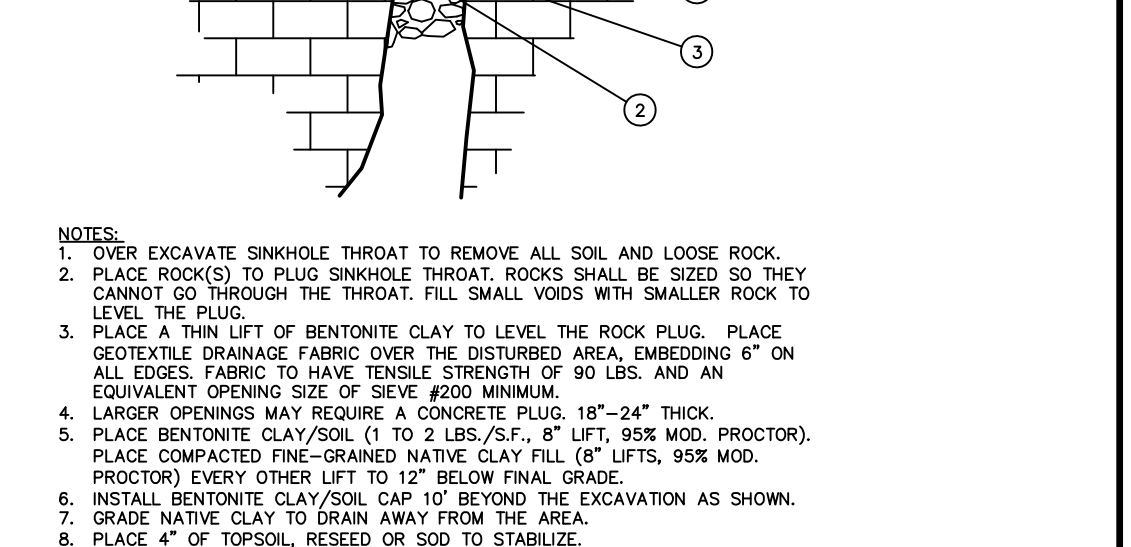
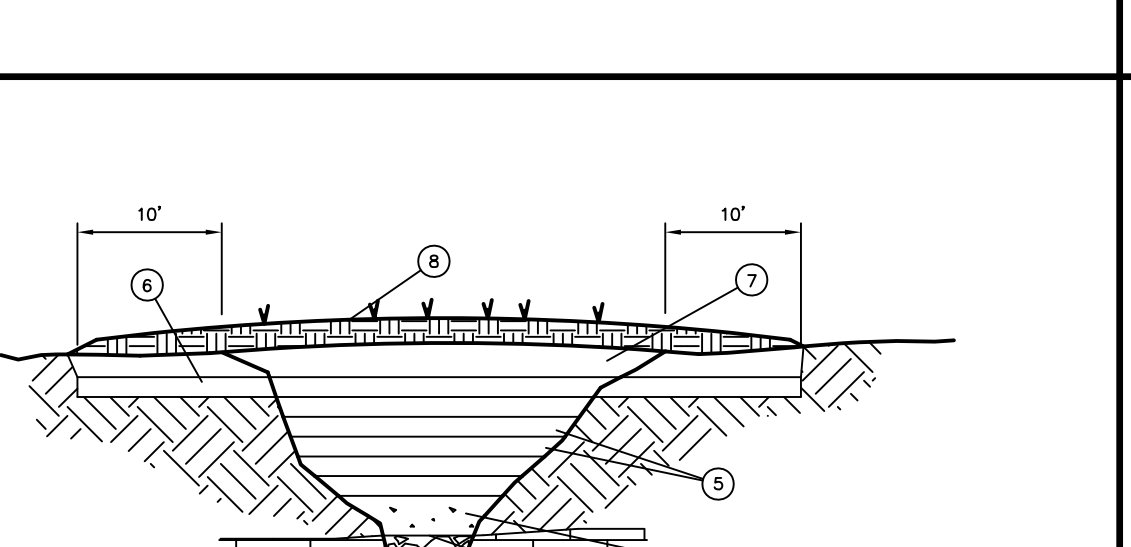
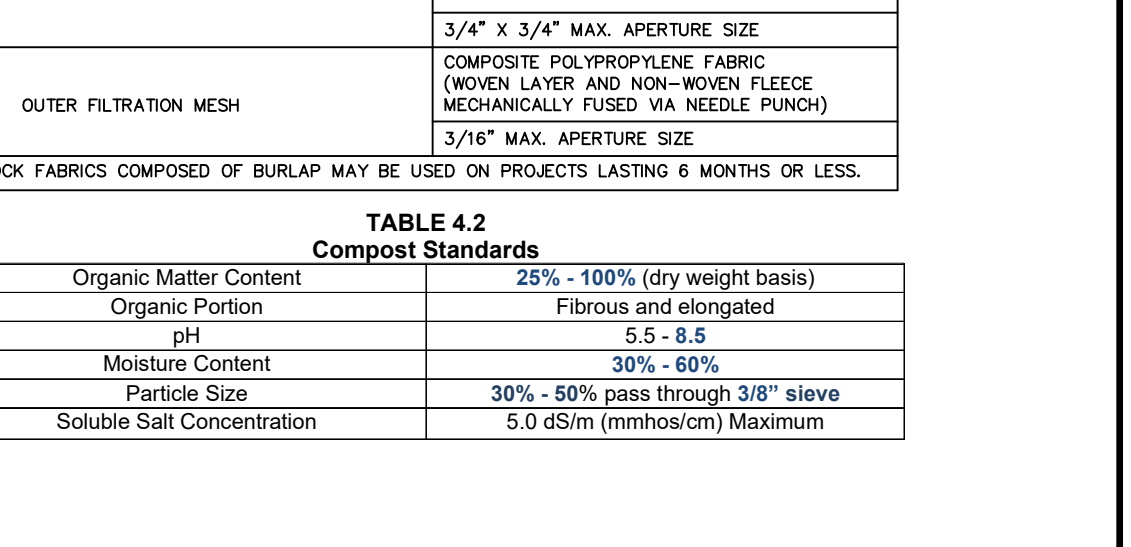
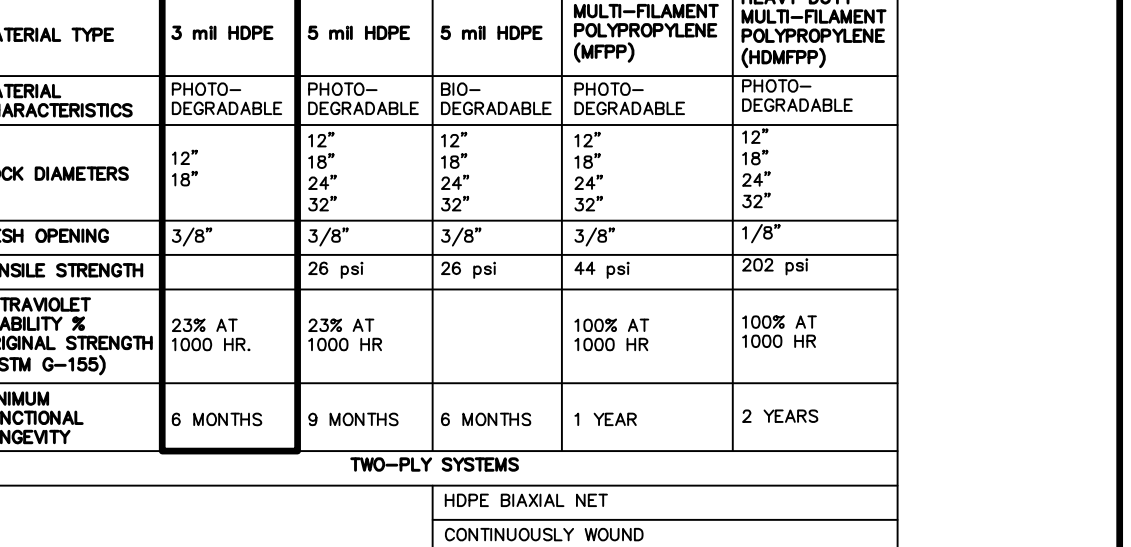
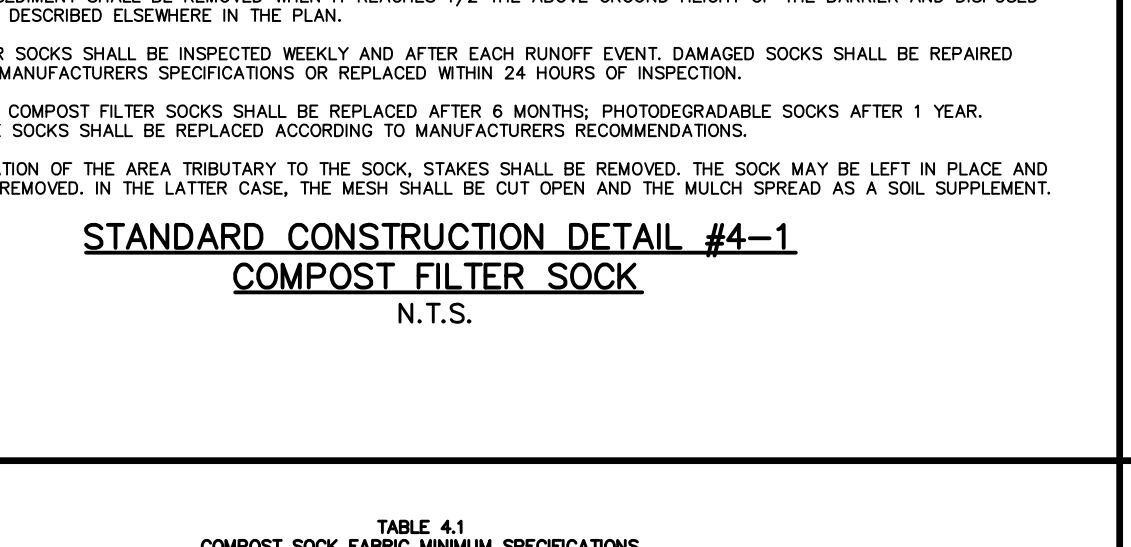
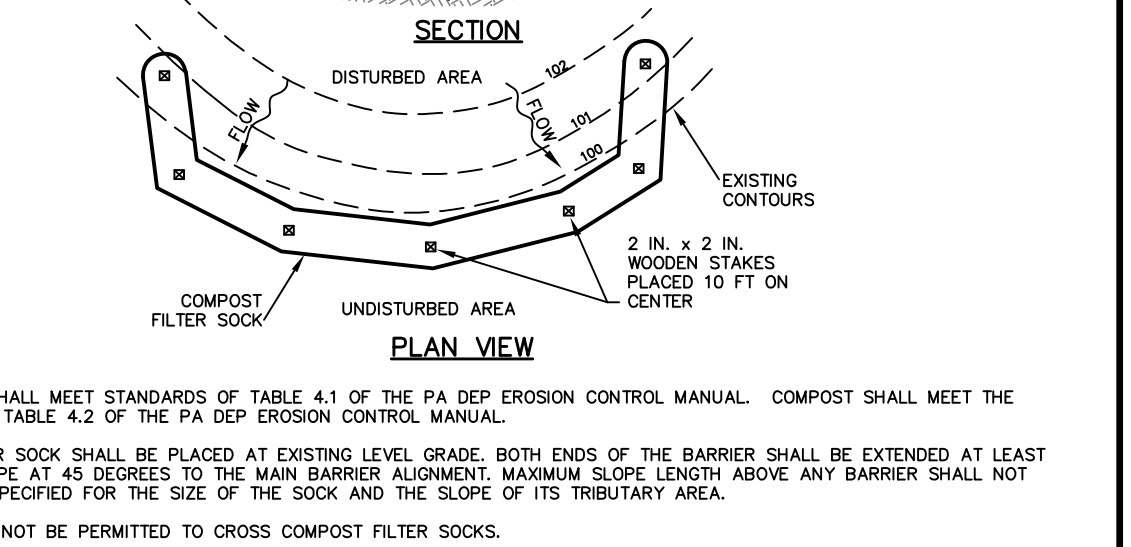
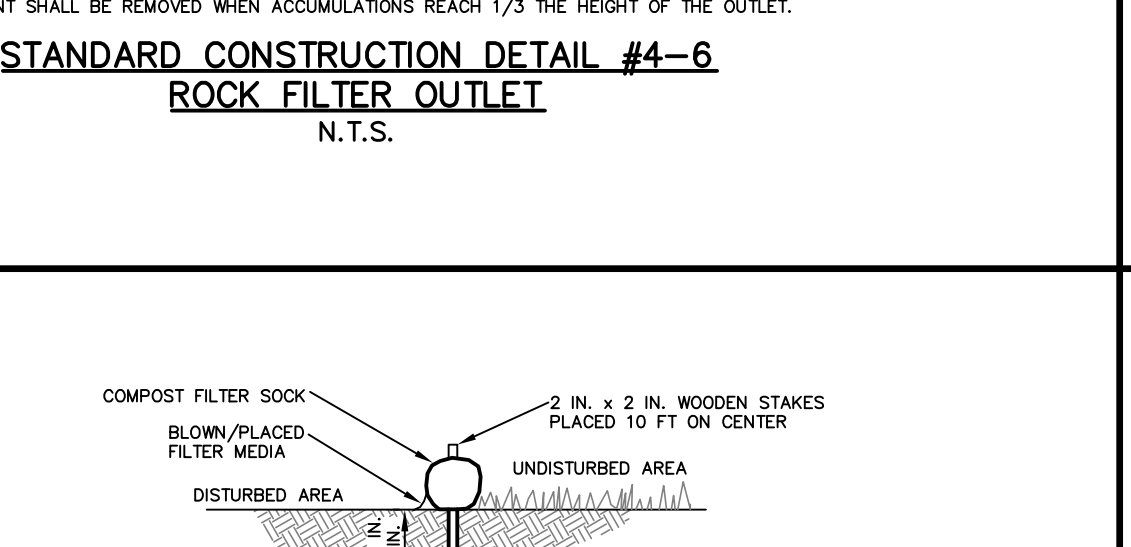
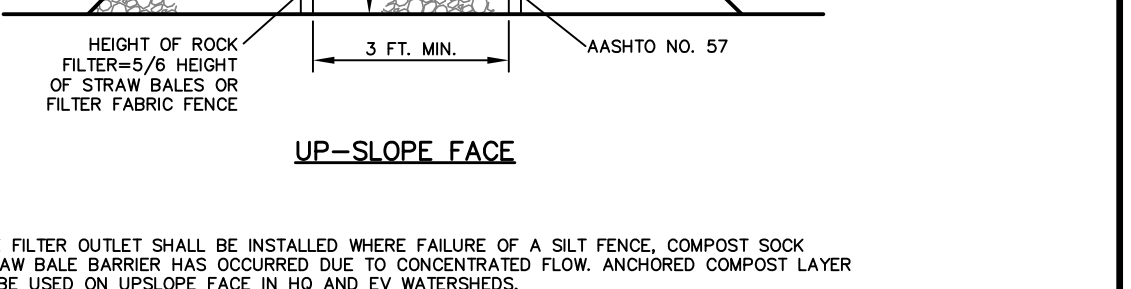
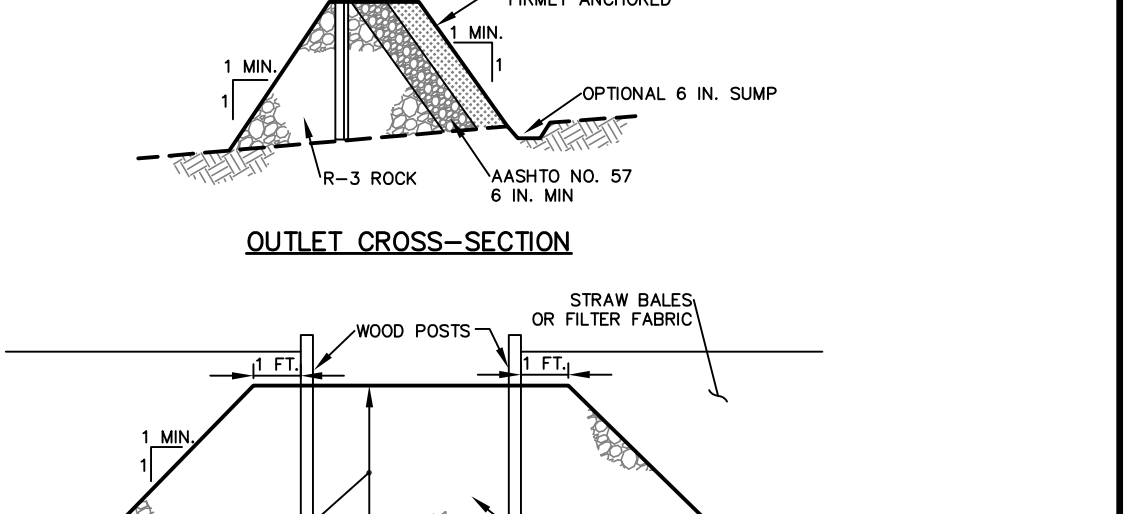
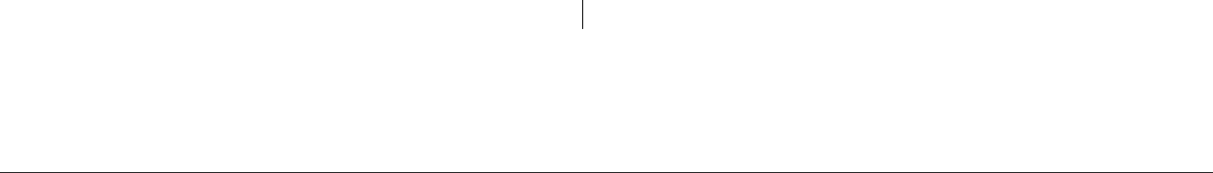
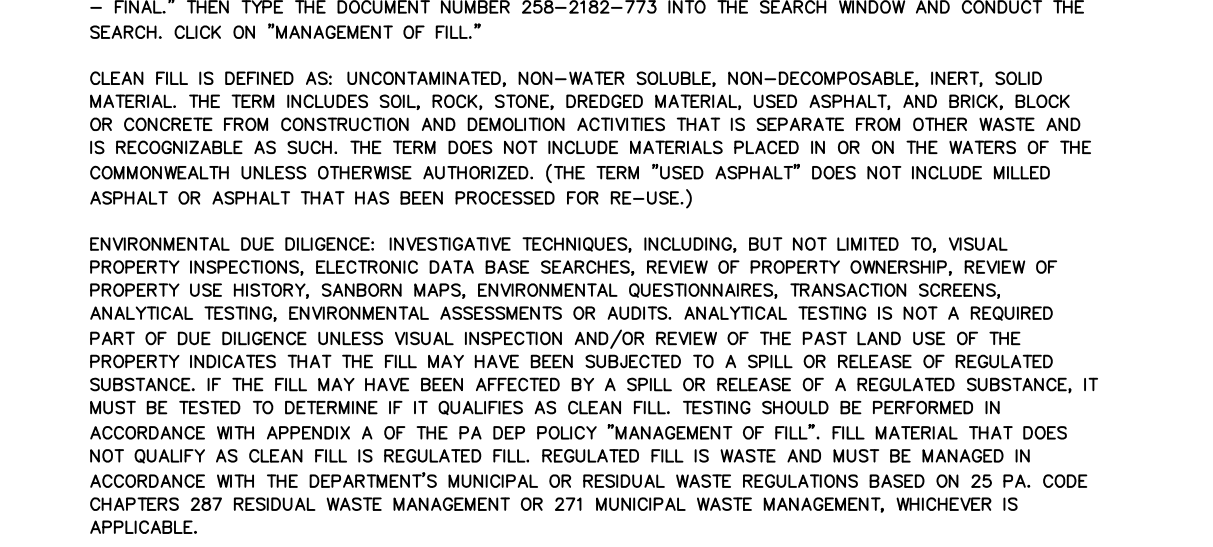
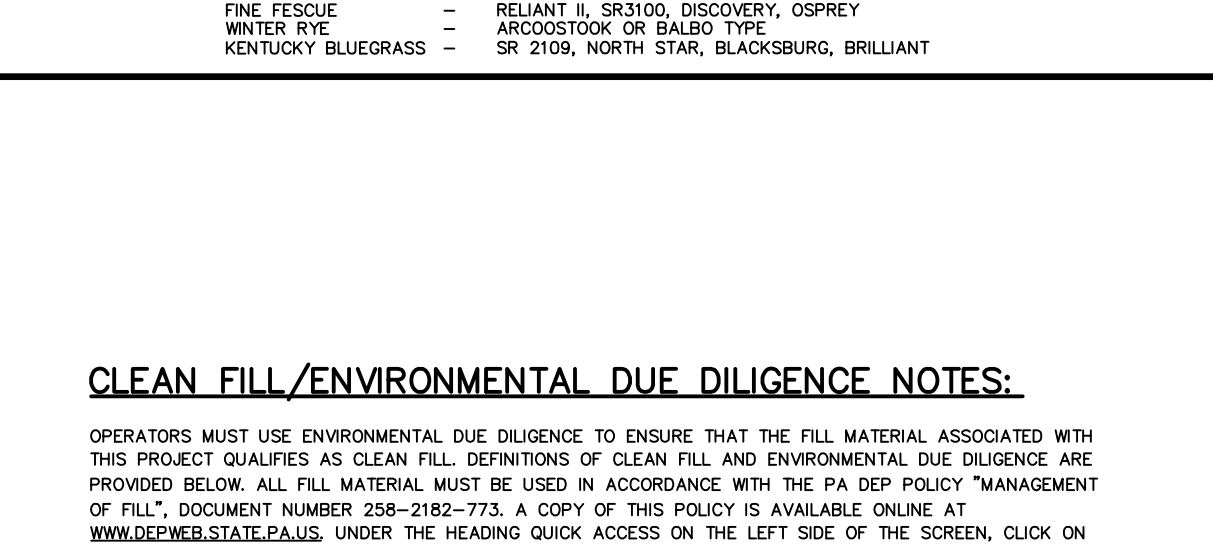
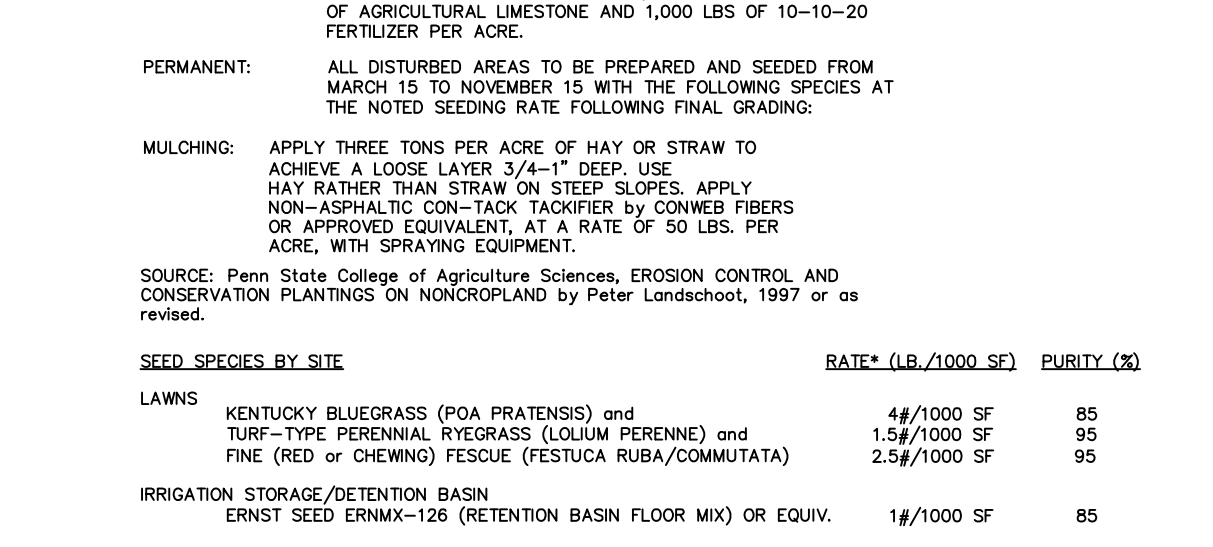
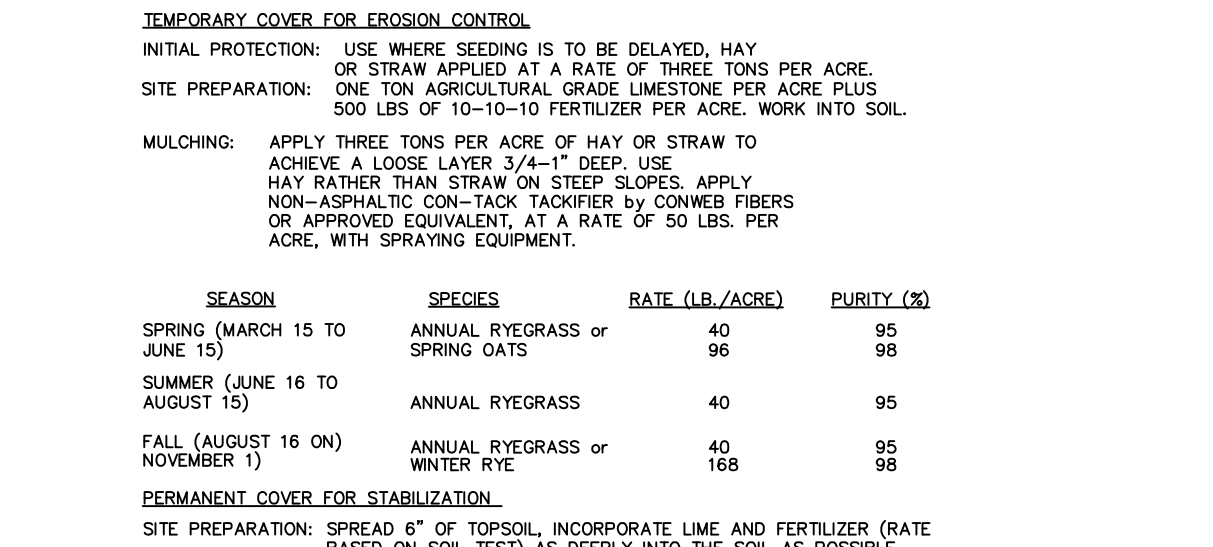
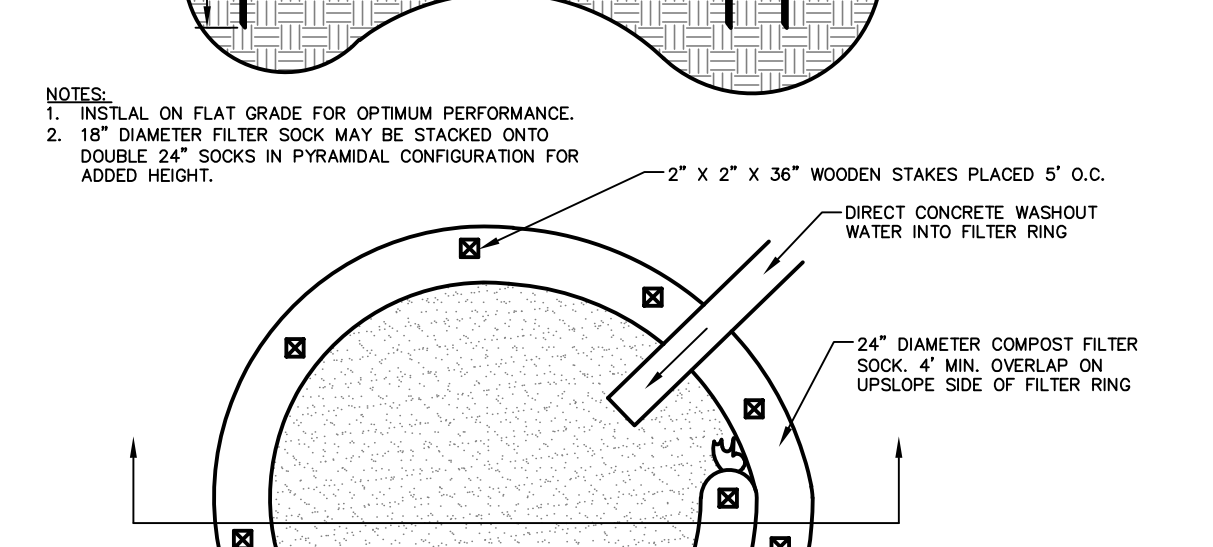
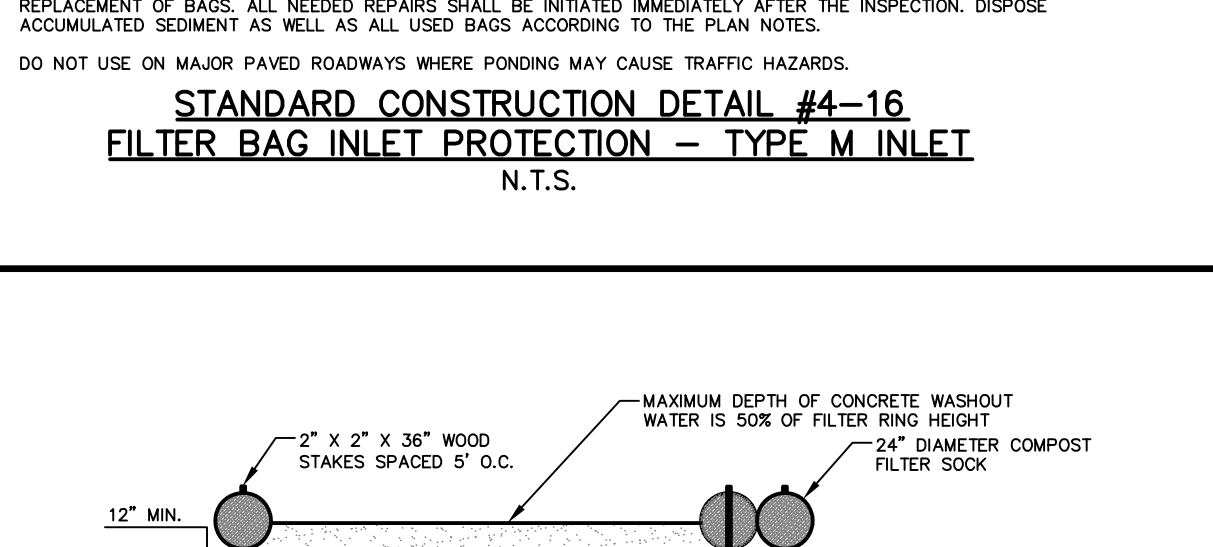
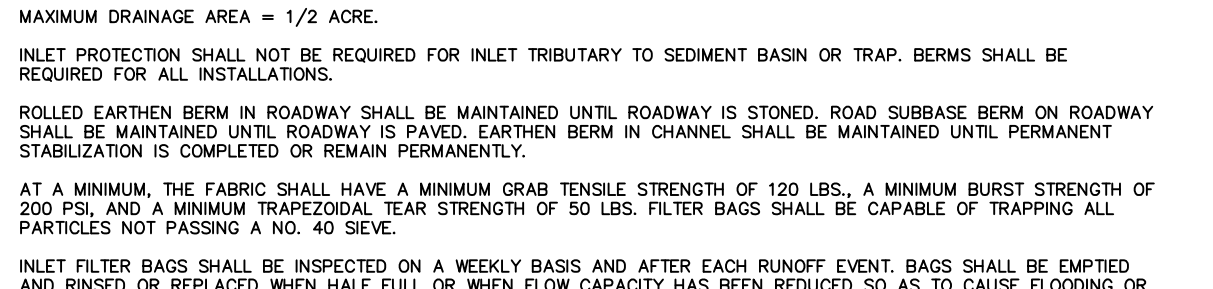
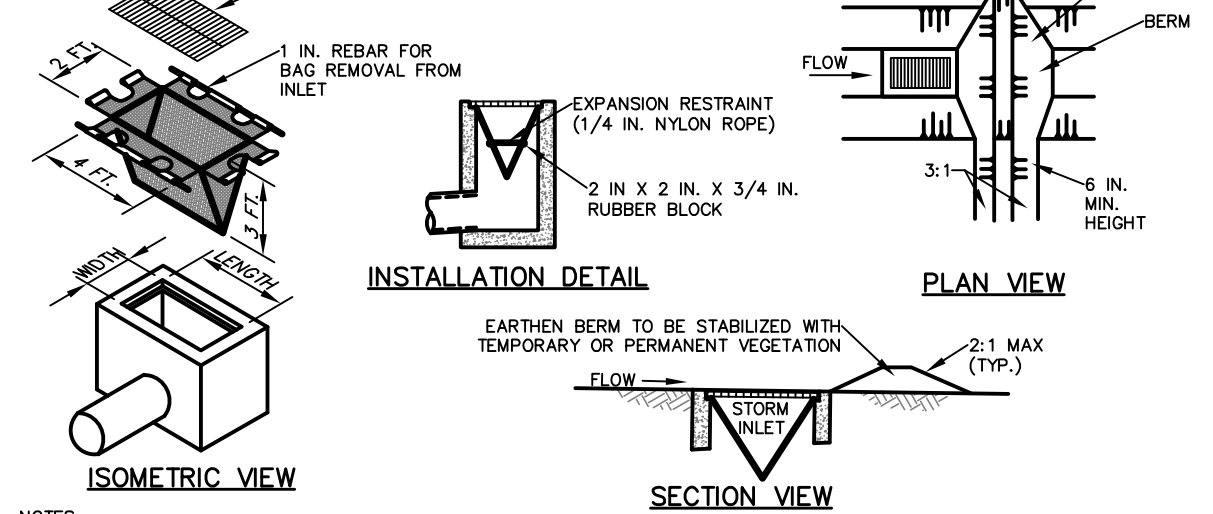
PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM PERMANENT TOE VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DEPTH SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.

PERMANENT STABILIZATION SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING PROHIBITED LEVELS OR OTHER RELATED PROBLEMS. ALL EXPOSED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING PROHIBITED LEVELS OR OTHER RELATED PROBLEMS.

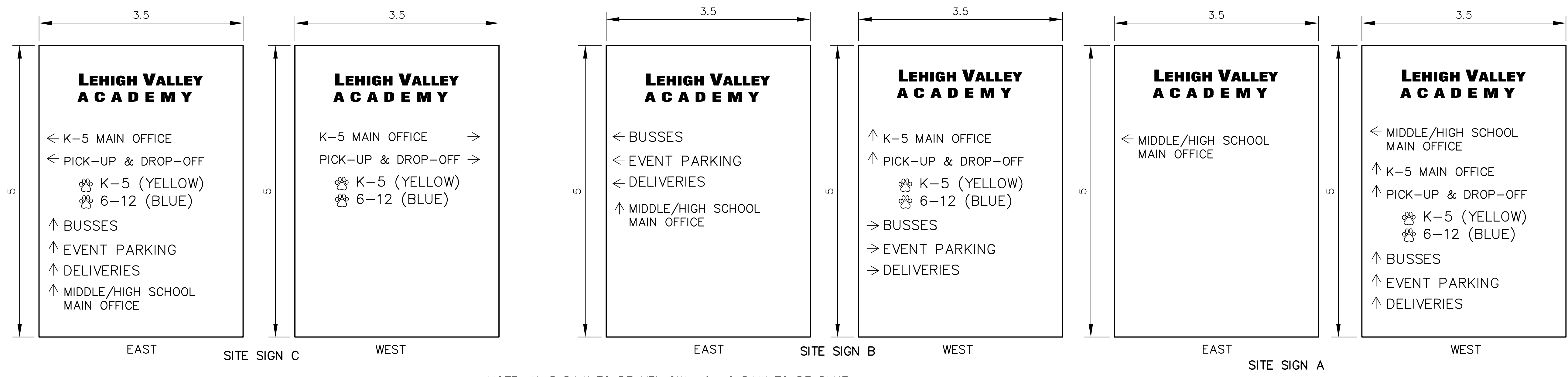
THE OPERATOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.

THE CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF THE APPENDIX A, EROSION CONTROL RULES AND REGULATIONS, TITLE 25, PART 1. DEPARTMENT OF ENVIRONMENTAL PROTECTION, SURFACE EROSION CONTROL REGULATIONS, ARTICLE 12, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.

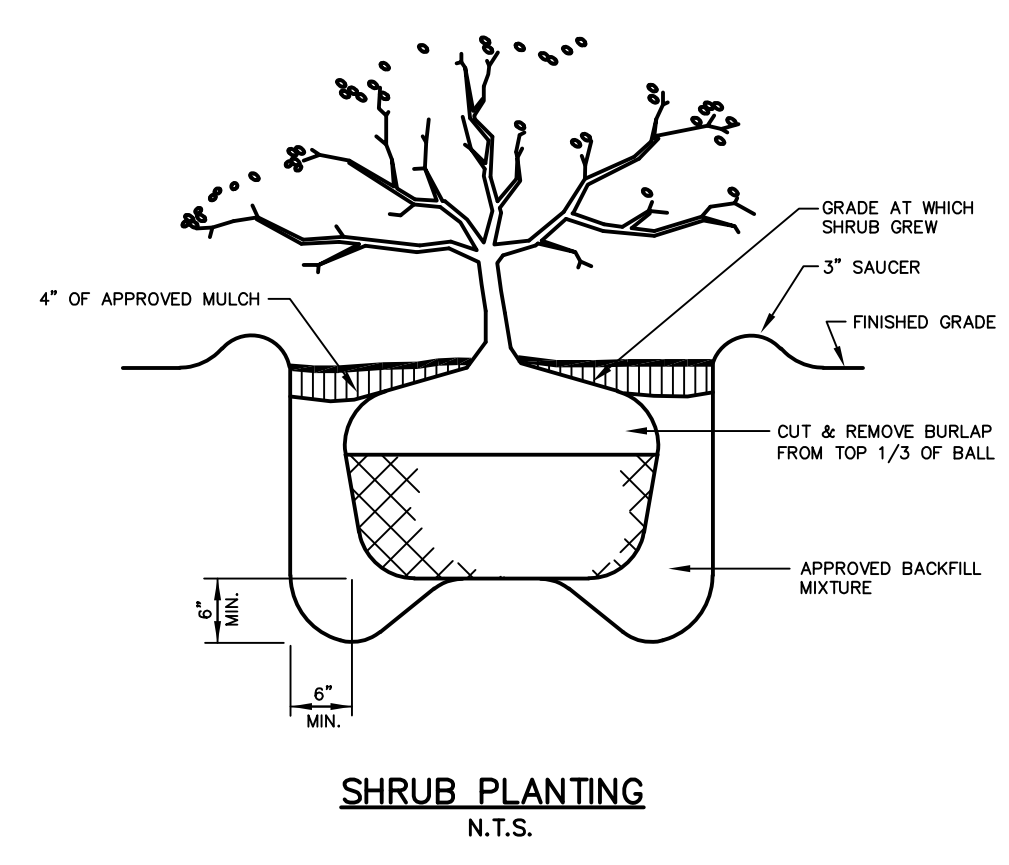
STRAW MULCH SHALL BE APPLIED IN LONG STRIPS, NOT CHIPPED OR FINELY BROKEN.



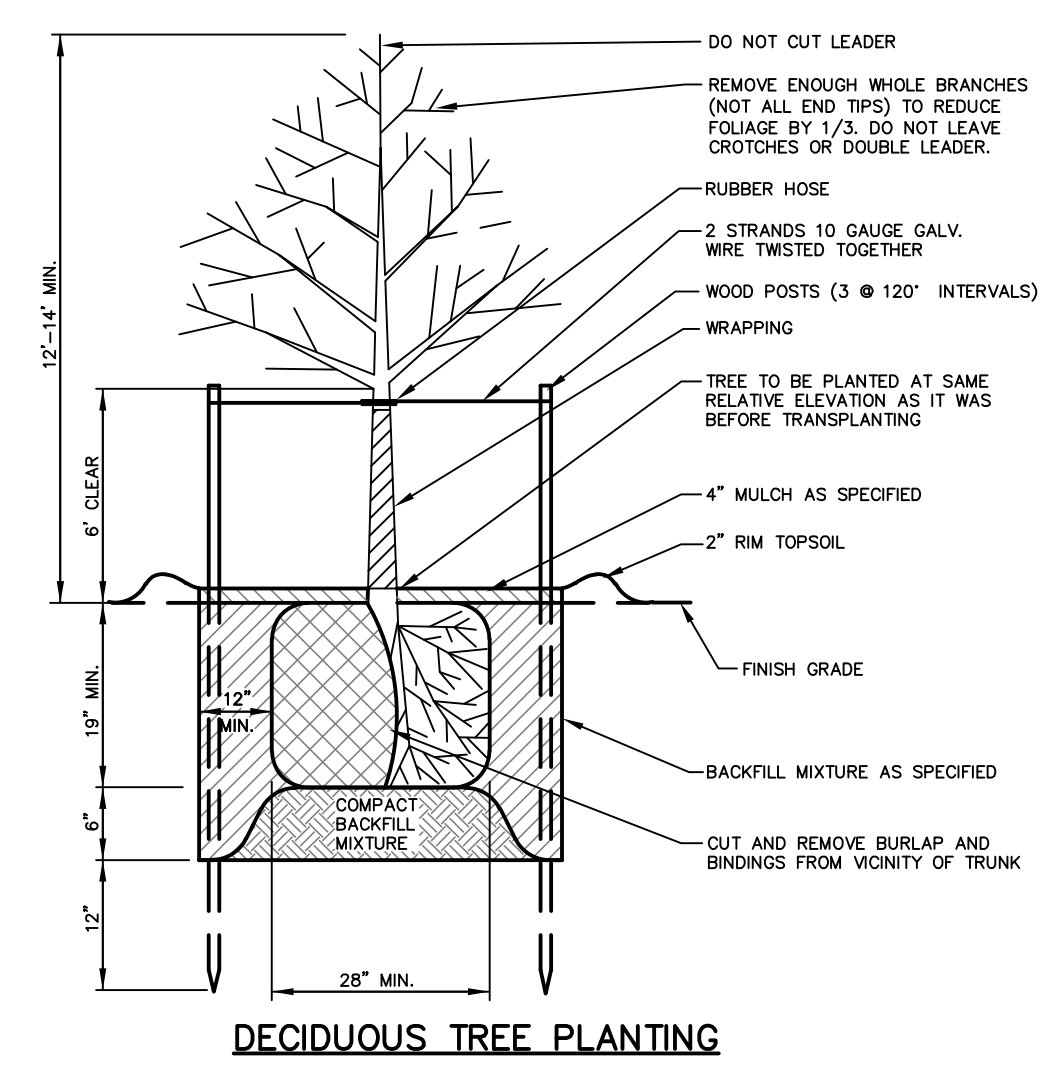
NO.	ISSUE DESCRIPTION	DATE
1	CITY COMMENT	05/23/2022
2		
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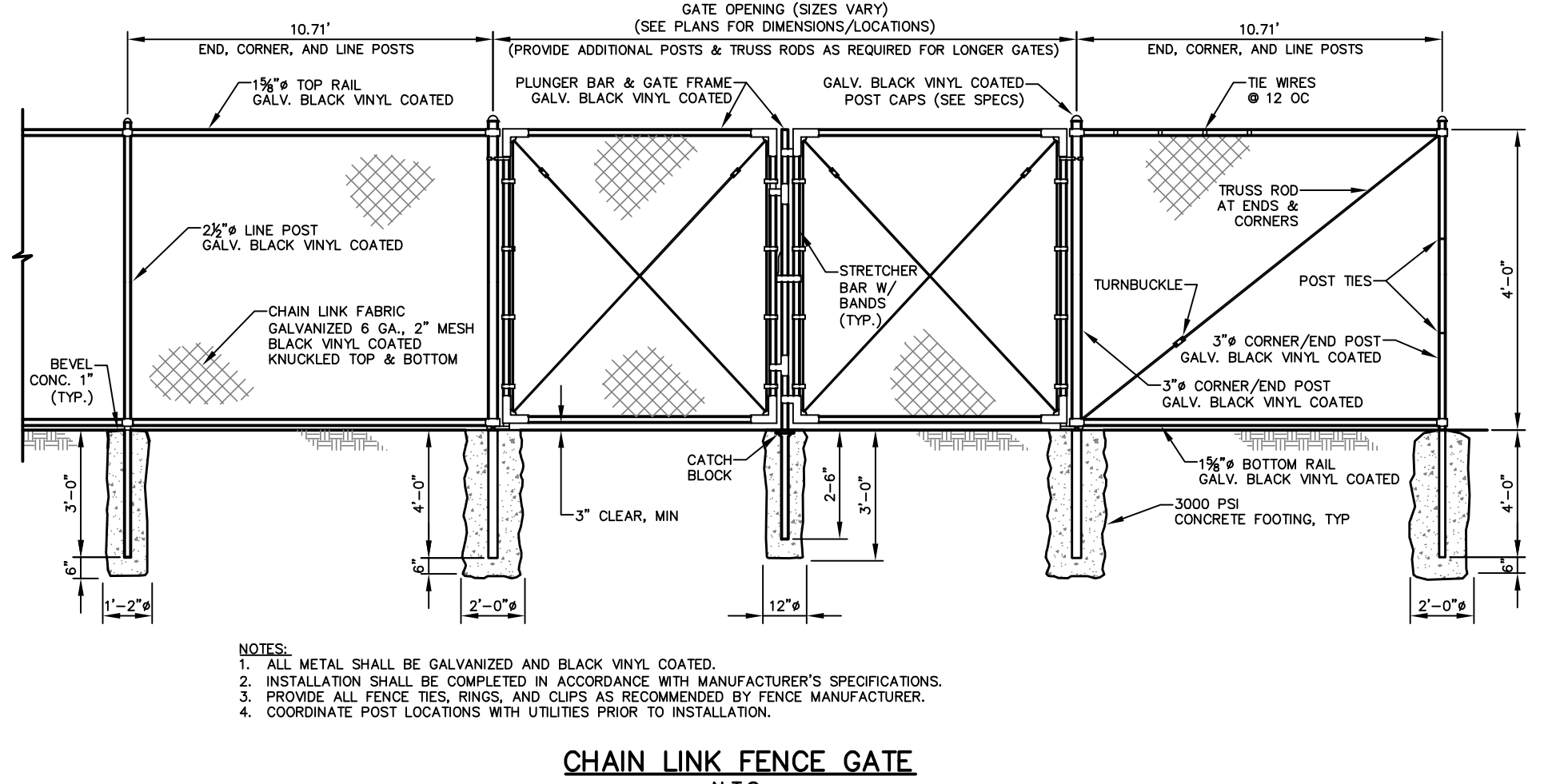
NOTE: K-5 PAW TO BE YELLOW, 6-12 PAW TO BE BLUE



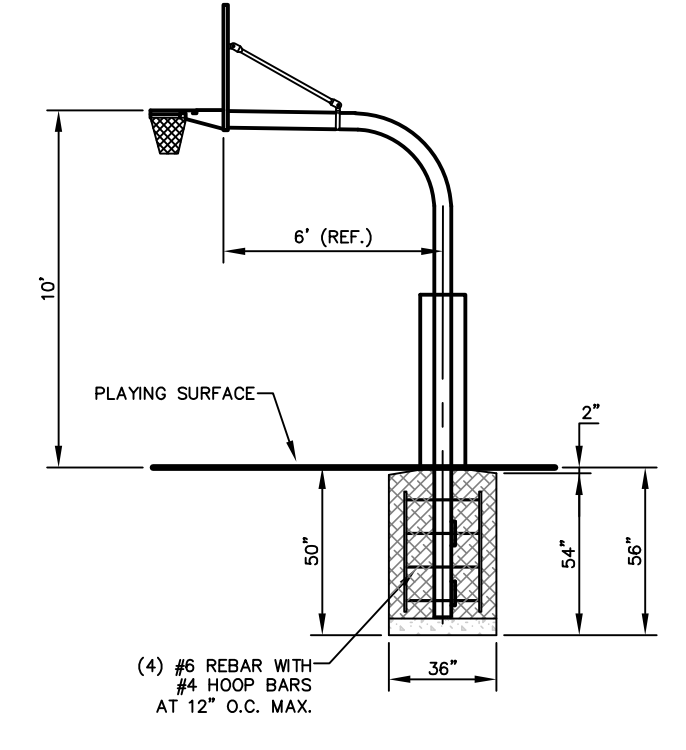
SHRUB PLANTING
N.T.S.



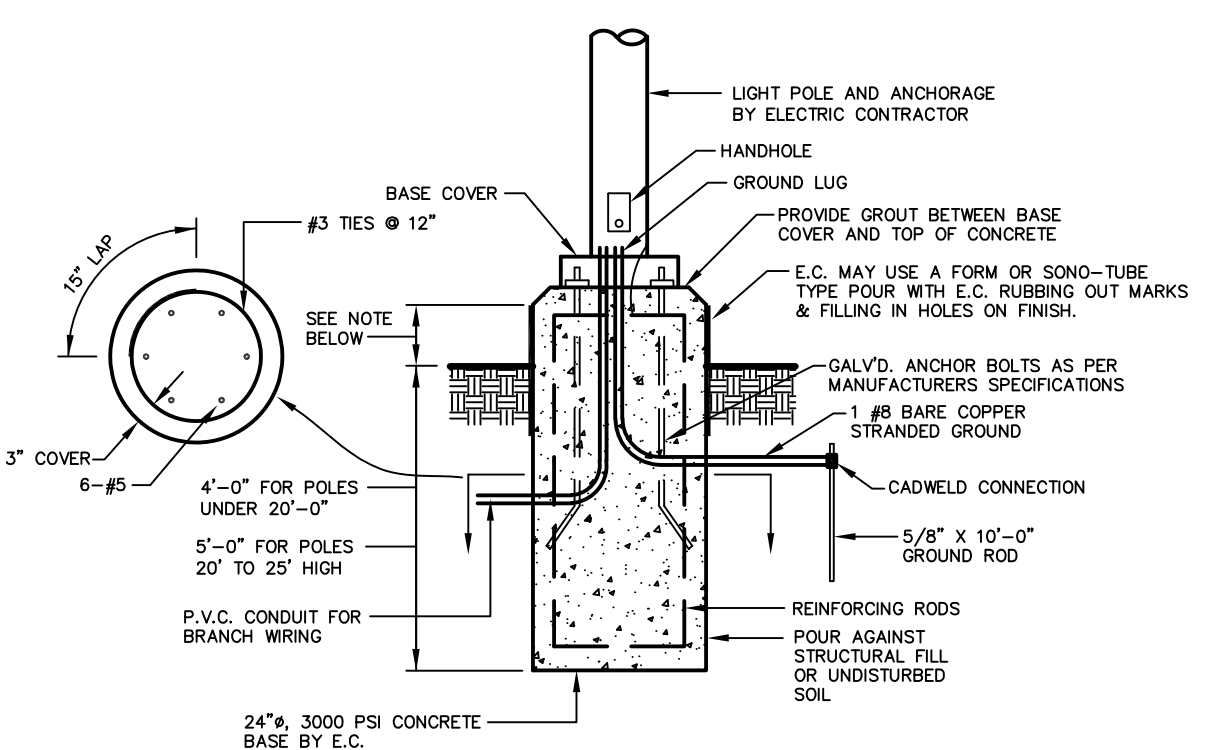
DECIDUOUS TREE PLANTING
N.T.S.



CHAIN LINK FENCE GATE
N.T.S.



BASKETBALL HOOP ASSEMBLY
N.T.S.



SITE LIGHT BASE
N.T.S.

DATE	04/01/2022	C6.01
SCALE		
DRAWN BY	GS	
CHECKED BY	TPD	
JOB NO.	21051	

**LEHIGH VALLEY ACADEMY
REGIONAL CHARTER
SCHOOL**

1500 VALLEY CENTER PARKWAY
BETHLEHEM, PA 18017

PROJECT TEAM

ARCHITECT
ALLOYS ARCHITECTURE

MEP
DMG DESIGNMANAGEMENTGROUP
2007 RT. 215, SUITE 202
PITSTON, PA 18640

STRUCTURAL
BARRY GETT & ASSOCIATES, INC.
85 S. ROUTE 100
ALLENTOWN, PA 18106

CIVIL
TEROFORN ENGINEERING, LLC
ONE EAST BROAD ST., SUITE 310
BETHLEHEM, PA 18018

FOOD SERVICE

ACOUSTICS
DWAY ENGINEERING, INC.
ONE EAST BROAD ST., SUITE 310
BETHLEHEM, PA 18018

RESIDENT ENGINEER

REGISTRATION

DATE

NO. ISSUE DESCRIPTION

NO.	ISSUE DESCRIPTION	DATE
1	CITY COMMENT	05/23/2022
2		
3		
4		
5		
6		
7		
8		

SHALL CONFORM TO THE STANDARDS SET FORTH IN PENNDOT PUB #724, RC-404, LATEST EDITION.

SECTION

NOTE: ALL GRATES SHALL BE CAST IRON & ADA COMPLIANT

YARD DRAIN

N.T.S.

PLAN

SECTION

NOTE: SEE TYPICAL PAVING OR SIDEWALK SECTION

FINISHED GRADE

CAST IRON FRAME & COVER (EAST JORDAN IRON WORKS, MODEL #364L OR EQUIVALENT)

8" MIN. COLLAR DEPTH ON MATCH BOTTOM OF FRAME & COVER, MINIMUM IS 6"

CONCRETE COLLAR 4000 PSI, AIR ENTRAINED (DETAIL IN GRASS CONDITION ONLY, OMT OTHERWISE)

4" SDR-26 PVC RISER

45° BEND

NOTE: RISER PIPE OF CLEAN-OUT SHALL BE CAPPED WITH AN APPROVED FLAP

STORM SEWER CLEAN-OUT

N.T.S.

FLOW

DATE 04/01/2022

SCALE

DRAWN BY GS

CHECKED BY TPD

JOB NO. 21051

SHEET 11 OF 11

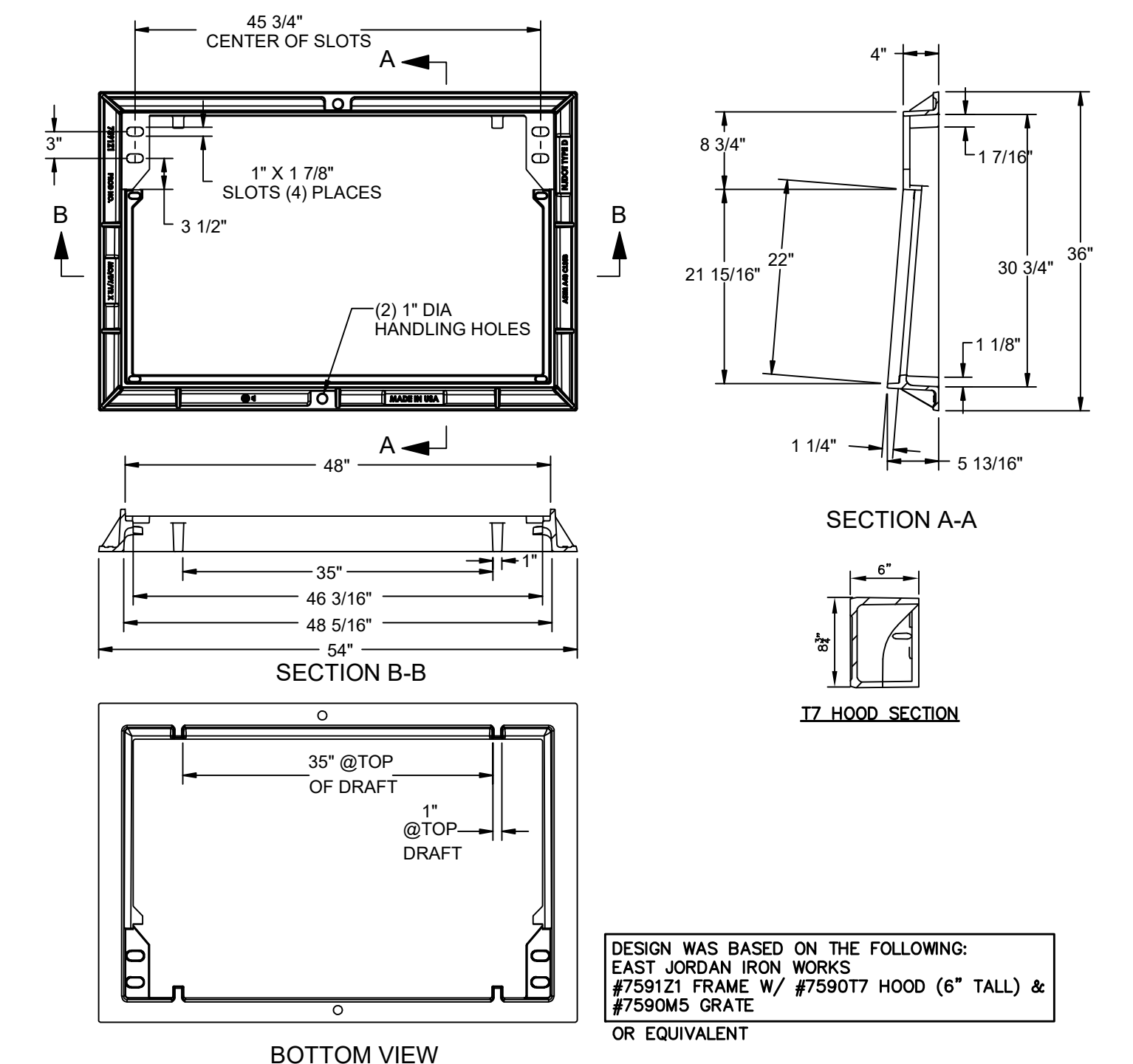
PRELIMINARY

ALLOYS ARCHITECTURE
530 WEST BROAD STREET
BETHLEHEM, PA 18018
610.419.0055

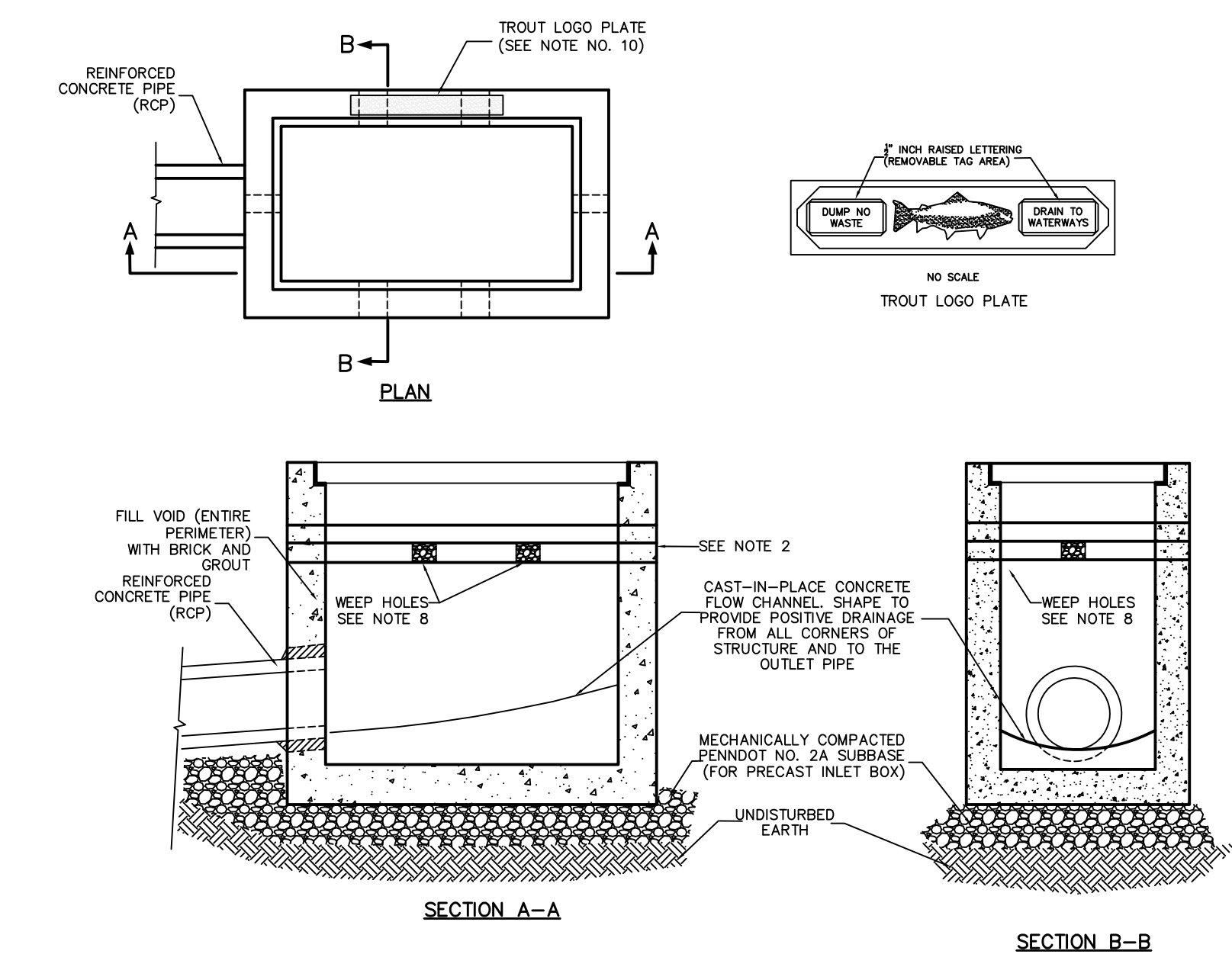
SHEET TITLE

7/24/2022 8:58:11 AM © COPYRIGHT ALLOYS ARCHITECTURE

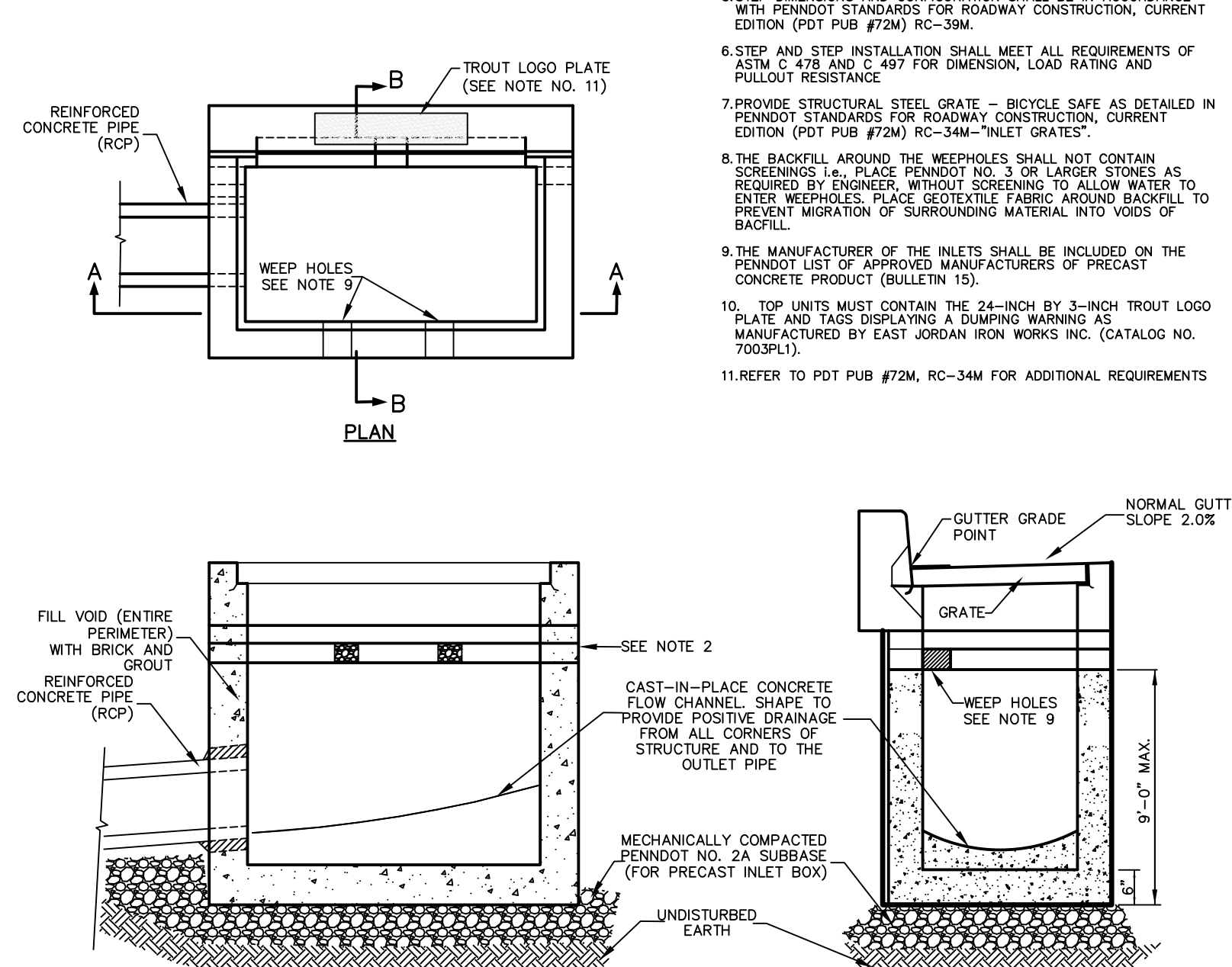
- NOTES**
- CONCRETE INLET AND TOP UNITS SHALL BE AS DETAILED IN PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION, CURRENT EDITION (POT PUB #724) RC-34M. INLETS, CONCRETE TOP UNITS CAST-IN-PLACE AND PRECAST.
 - PROVIDE A MINIMUM OF 4 INCHES AND A MAXIMUM OF 8 INCHES OF ADJACENT TO SUBGRADE TO SERVE AS WEEP HOLES.
 - ALL EXPOSED EDGES SHALL BE CHAMFERED 1/4".
 - STEPS SHALL BE PROVIDED WHENEVER STRUCTURE EXCEEDS 4 FEET IN HEIGHT.
 - STEP DIMENSIONS AND CONFIGURATION SHALL BE IN ACCORDANCE WITH PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION, CURRENT EDITION (POT PUB #724) RC-34M.
 - STEP AND LEVEL INSTALLATION SHALL MEET ALL REQUIREMENTS OF ASTM C 498 AND E 487 FOR DIMENSIONAL, LOAD RATING AND FLOUT RESISTANCE.
 - PROVIDE STRUCTURAL STEEL GRATE - BICYCLE SAFE AS DETAILED IN PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION, CURRENT EDITION (POT PUB #724) RC-34M - INLET GRATES.
 - THE BACKFILL AROUND THE WEEPHOLES SHALL NOT CONTAIN SCREENING. PLACE PENNDOT NO. 20 OR LARGER STONES AS WEEPHOLES. PLACE GEOTEXTILE FABRIC AROUND BACKFILL TO PREVENT MIGRATION OF SUBGRADE MATERIAL INTO VOIDS OF BACKFILL.
 - THE MANUFACTURER OF THE INLETS SHALL BE INCLUDED ON THE PENNDOT LIST OF APPROVED MANUFACTURERS OF PRECAST CONCRETE PRODUCTS (SHEET 105).
 - TOP UNITS MUST CONTAIN THE 24-INCH BY 3-INCH TROUT LOGO PLATE AND FACE CAPICATED AT SHARP MARKING AS MANUFACTURED BY EAST JORDAN IRON WORKS, INC. (CATALOG NO. 700303).
 - REFER TO POT PUB #724, RC-34M FOR ADDITIONAL REQUIREMENTS.



TYPE C INLET FRAME
N.T.S.

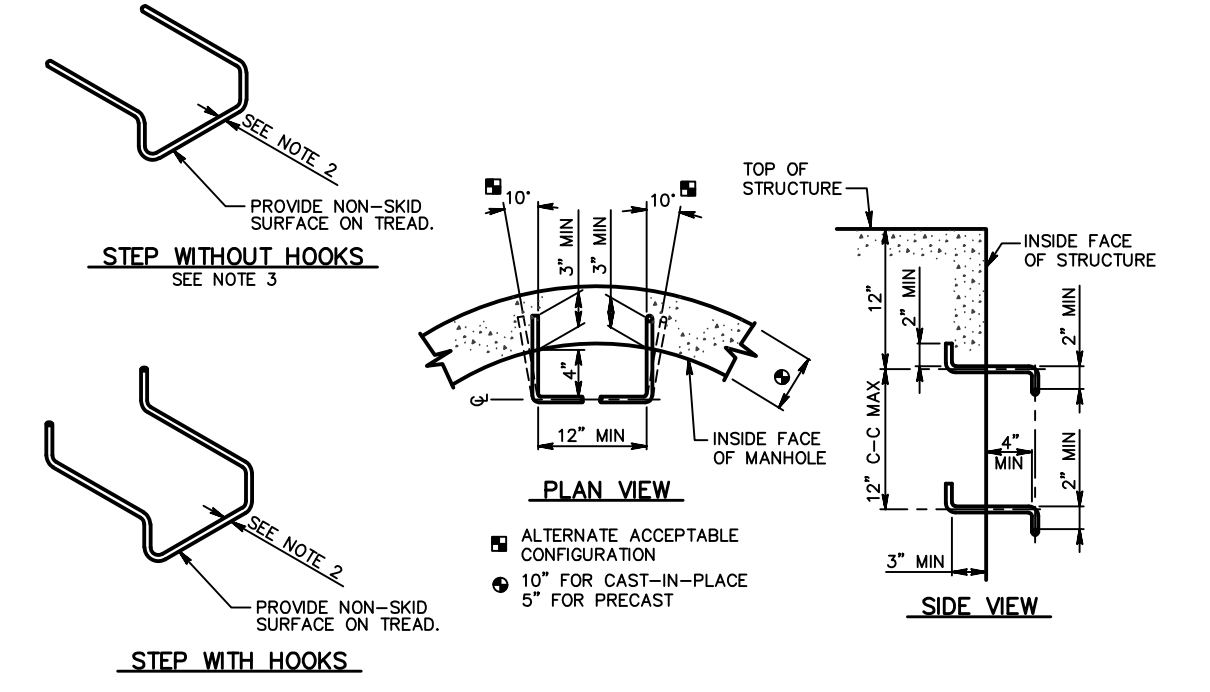


TYPE M INLET
N.T.S.



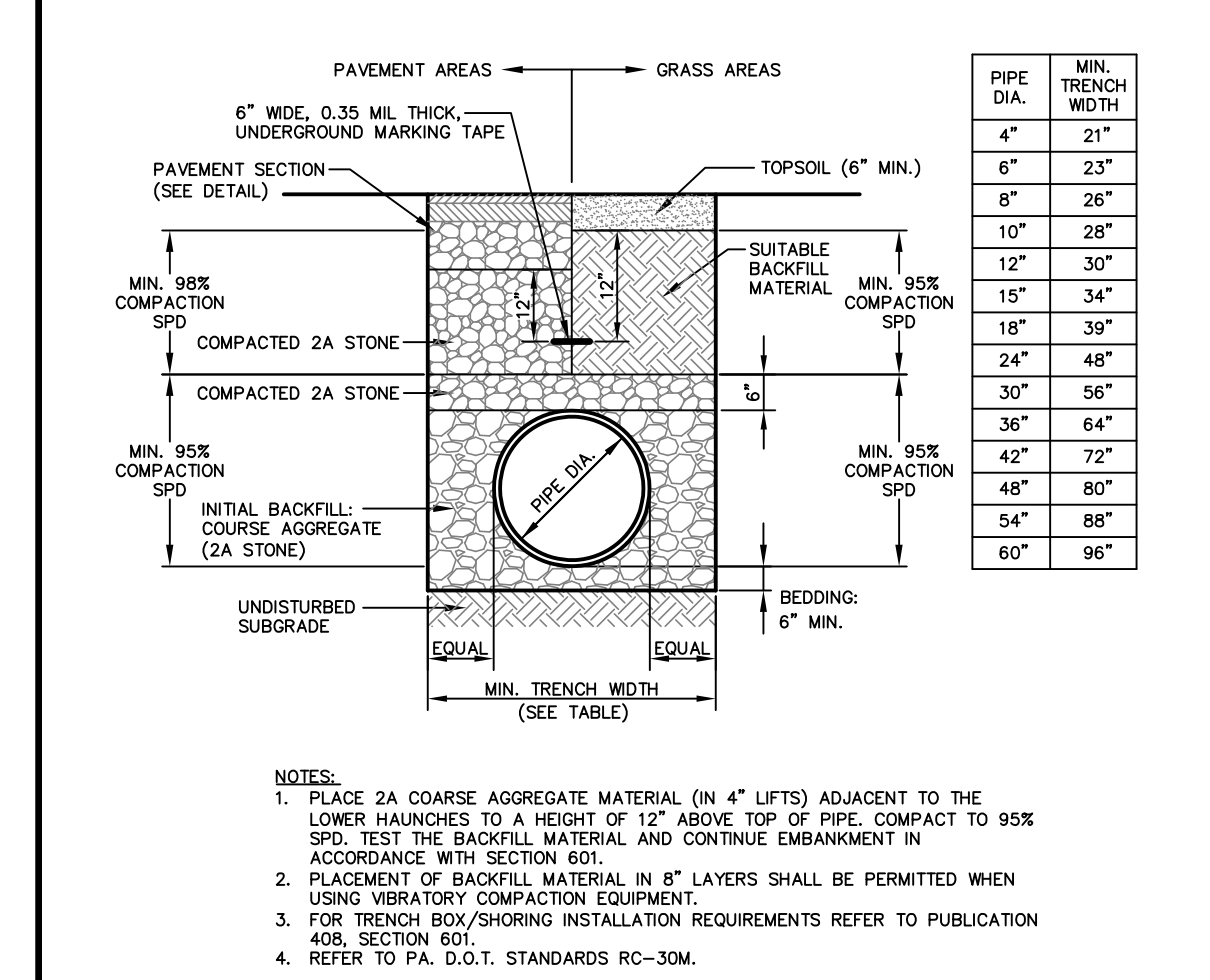
TYPE C INLET
N.T.S.

- NOTES**
- TYPE M INLET FRAME TO BE USED FOR INLET A59 TO INLET A45 INCLUSIVE.
 - TYPE C INLET FRAME TO BE USED ON ALL OTHER INLETS.

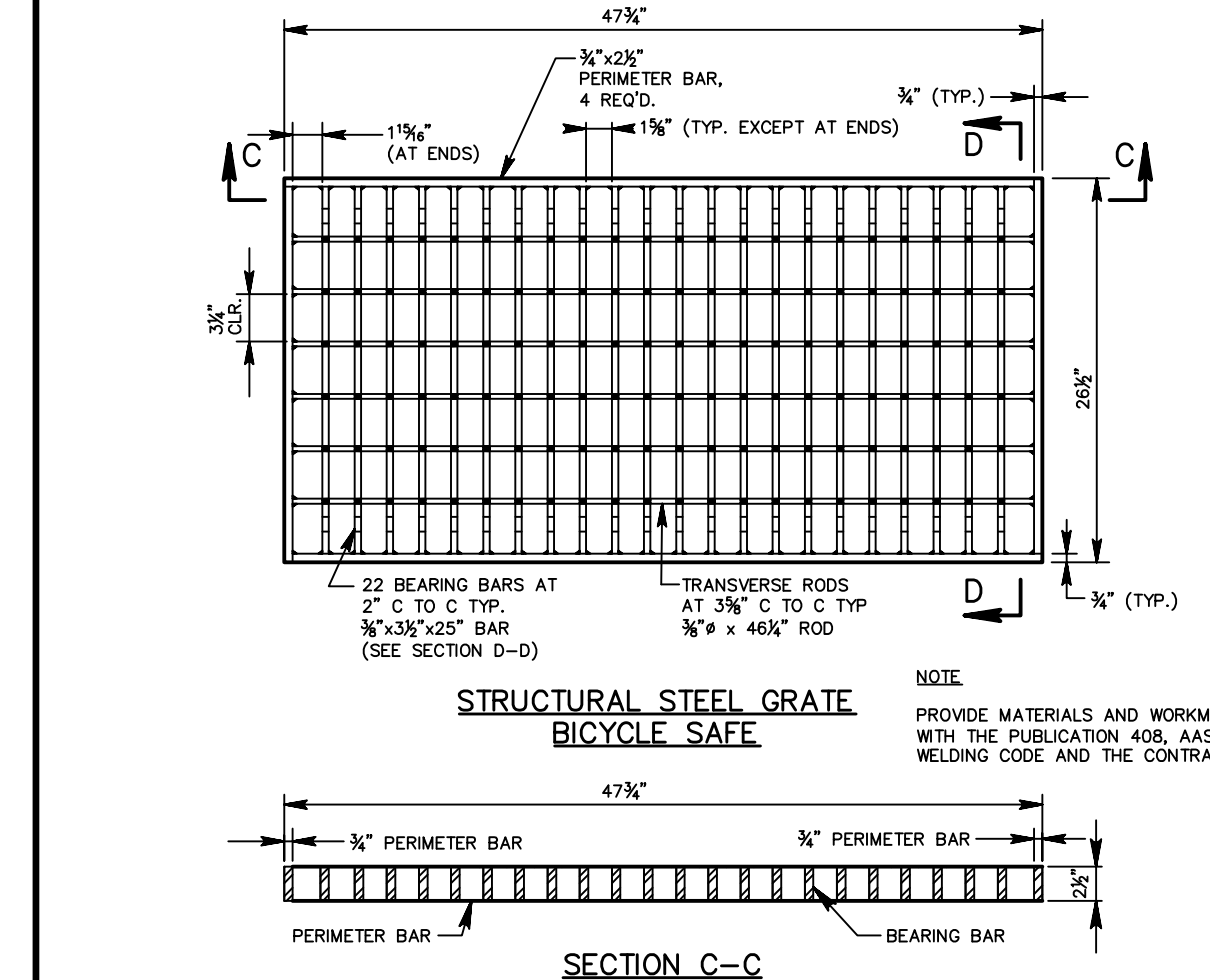


TYPICAL STEP CONFIGURATION
N.T.S.
(SEE NOTE 1)

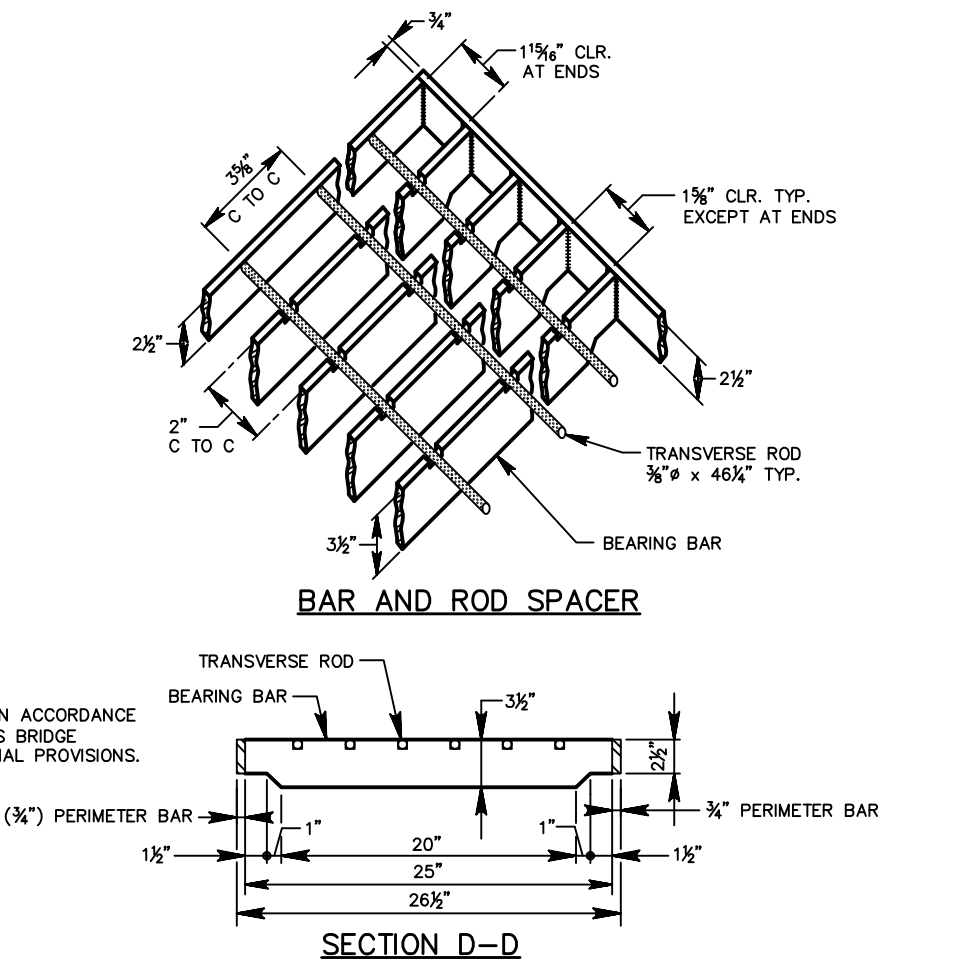
DESIGN WAS BASED ON THE FOLLOWING:
EAST JORDAN IRON WORKS #759121 FRAME W/ #759077 HOOD (6" TALL) & #759084 GRATE



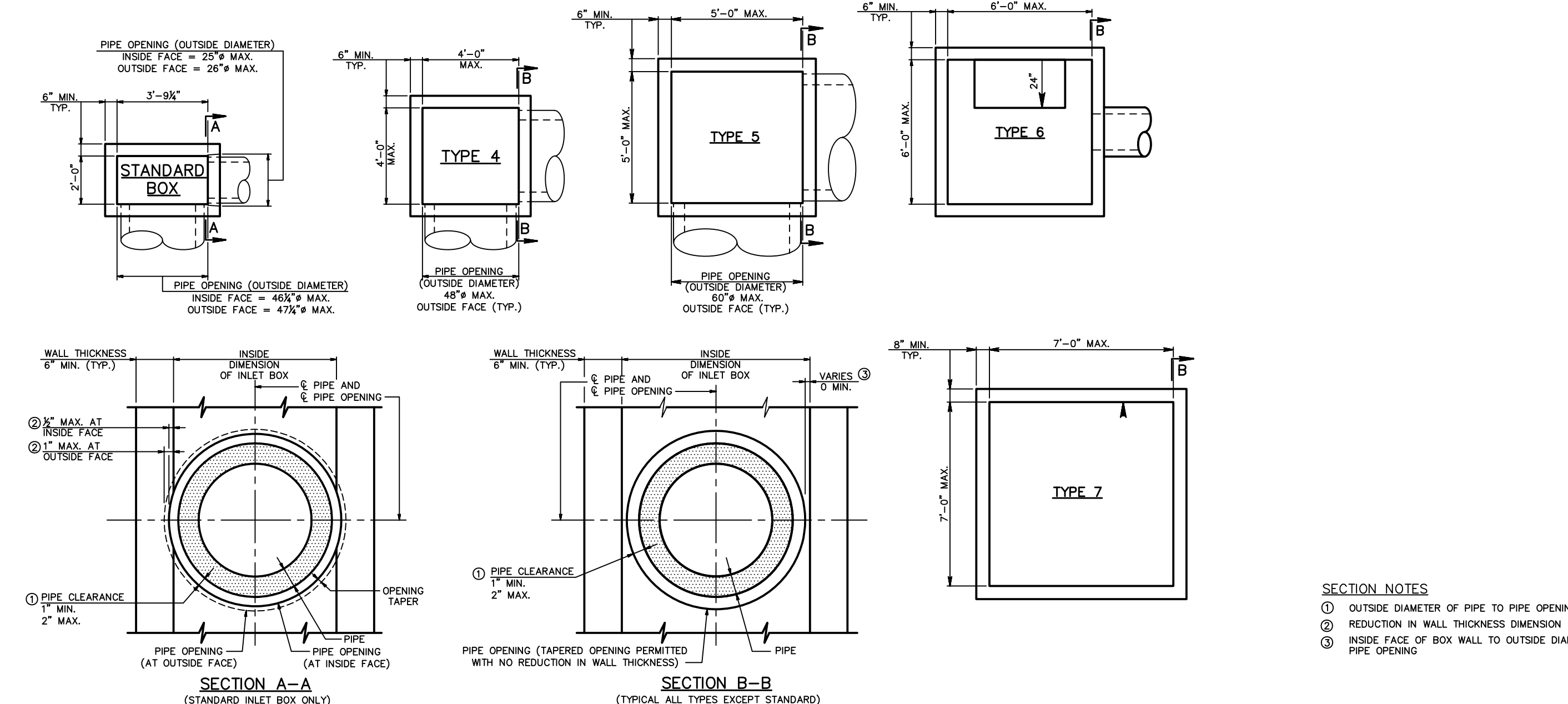
HDPE STORM PIPE TRENCH
N.T.S.



BICYCLE SAFE INLET GRATE
N.T.S.



BAR AND ROD SPACER



STANDARD INLET BOX
N.T.S.

- SECTION NOTES**
- OUTSIDE DIAMETER OF PIPE TO PIPE OPENING
 - REDUCTION IN WALL THICKNESS DIMENSION
 - INSIDE FACE OF BOX WALL TO OUTSIDE DIAMETER OF PIPE OPENING

SHALL CONFORM TO THE STANDARDS SET FORTH IN PENNDOT PUB #724, RC-404, LATEST EDITION.

INLET BOX SCHEMATIC

WEEPHOLE LOCATIONS

PAVEMENT SECTION

2A STONE, 1 1/2" MIN. BELOW PAVEMENT SUBGRADE

4" SCH 40 PVC 1" (2) PER INLET WITHIN PAVED AREAS, EACH ON OPPOSITE SIDES OF INLET

4" PVC 1" WEEPHOLE DRAIN PLACEMENT

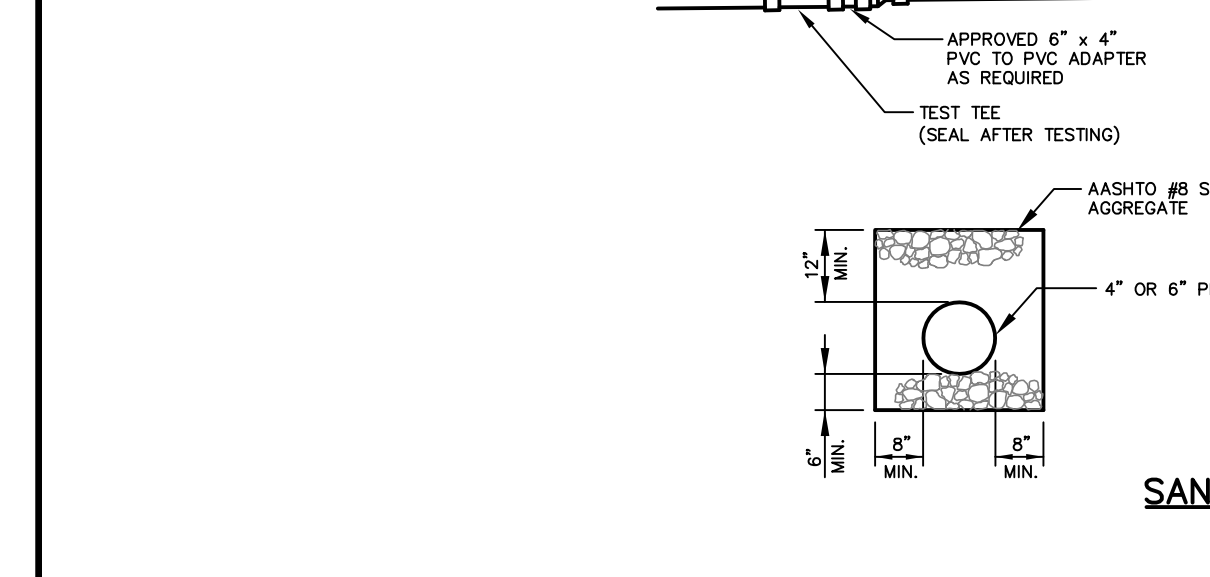
4" PVC 1" END SCREEN

FIELD CONSTRUCTION NOTES:

- LOCATE PIPE OR PIPES AS INDICATED OR DIRECTED.
- CONNECT PIPES TO INLET BOXES WITH MORTAR OR WATER TIGHT RUBBER FLEXIBLE CONNECTORS.
- CONSTRUCT OR PLACE INLET BOXES LEVEL UNLESS OTHERWISE INDICATED OR DIRECTED.
- PROVIDE MANHOLE STEPS WHEN THE DEPTH BETWEEN THE FINISHED GRADE ELEVATION AND THE TOP OF BOTTOM SLAB ELEVATION IS GREATER THAN 4'-0". SHALLOW RECESSES, ON THE INSIDE FACE OF THE INLET, NOT GREATER THAN 3" IN DEPTH, FORMED BY MAGNETIC STEP FORMERS ARE ACCEPTABLE AND DO NOT REQUIRE PAVING.
- CONSTRUCT OR PLACE INLET BOXES ON A SUBGRADE CONSTRUCTED OF COMPACTED NO. 2A COARSE AGGREGATE. PLACE AND COMPACT IN 4" LAYERS TO PROVIDE A 1'-0" MINIMUM DEPTH.
- FORM BOTTOM OF INLET, USING CLASS A CONCRETE, TO CHANNEL THE FLOW TOWARD THE OUTLET PIPE. PROVIDE A REINFORCEMENT BARS SPACED AT 12" CENTER TO CENTER MAXIMUM WHEN THE THICKNESS EXCEEDS 3".
- PROVIDE TWO (2) 4" PERFORATED PVC 1" WEEPHOLE DRAINS IN THE WALLS OF INLETS THAT ARE WITHIN PAVED AREAS.
- VERTICAL PLACEMENT: 12" BELOW PAVEMENT SUBGRADE
- HORIZONTAL PLACEMENT: PLACE WEEPHOLE 1" DRAINS IN SIDE WALLS THAT ARE PERPENDICULAR TO TRAFFIC.
- LOCATE WEEPHOLES A MINIMUM OF 6" FROM PIPE OPENINGS OR JOINTS.
- LOCATE WEEPHOLES A MINIMUM OF 1'-0" ABOVE OUTLET PIPE INVERT.
- THE BACKFILL AROUND THE WEEPHOLE 1" DRAIN SHALL NOT BE SCREENED. PLACE CLEAN STEEL WITHOUT SCREENING THE VOIDS TO ALLOW WATER TO ENTER THE WEEPHOLE 1" DRAINS.

INLET BOXES
N.T.S.

SHALL CONFORM TO THE STANDARDS SET FORTH IN PENNDOT PUB #724, RC-404, LATEST EDITION.



SANITARY BUILDING SEWER
N.T.S.

6" x 4" PVC ADAPTER

SECTION

NOTE: SEE TYPICAL STORM TRENCH SECTION FOR BACKFILL AROUND RISER PIPE

YARD DRAIN

N.T.S.

PLAN

SECTION

NOTE: SEE TYPICAL PAVING OR SIDEWALK SECTION

FINISHED GRADE

CAST IRON FRAME & COVER (EAST JORDAN IRON WORKS, MODEL #364L OR EQUIVALENT)

8" MIN. COLLAR DEPTH ON MATCH BOTTOM OF FRAME & COVER, MINIMUM IS 6"

CONCRETE COLLAR 4000 PSI, AIR ENTRAINED (DETAIL IN GRASS CONDITION ONLY, OMT OTHERWISE)

4" SDR-26 PVC RISER

45° BEND

NOTE: RISER PIPE OF CLEAN-OUT SHALL BE CAPPED WITH AN APPROVED FLAP

STORM SEWER CLEAN-OUT

N.T.S.

FLOW

DATE 04/01/2022

SCALE

DRAWN BY GS

CHECKED BY TPD

JOB NO. 21051

SHEET 11 OF 11

PRELIMINARY

ALLOYS ARCHITECTURE
530 WEST BROAD STREET
BETHLEHEM, PA 18018
610.419.0055

SHEET TITLE

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